Appendix E: Test Data for E-UTRA Band 4

Product Name: 7 inch 4G Tablet Trade Mark: LOGIC, iSWAG, UNONU **Test Model: T4G**

Environmental Conditions

Temperature:	23.2° C
Relative Humidity:	54.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Diamond Lu
Supervised by:	Li Huan

E.1 Conducted Output Power

	Conducted Output Power Test Result (Channel Bandwidth: 1.4 MHz)							
Madulation	Chamal	RB Con	figuration	Average Power [dBm]	Average Power [dBm]	\/a ==li =4		
Modulation	Channel	Size	Offset	QPSK	16QAM	Verdict		
		1	0	23.60	23.76	PASS		
		1	3	23.53	23.72	PASS		
		1	5	23.52	23.73	PASS		
	LCH	3	0	23.65	22.78	PASS		
		3	2	23.55	22.72	PASS		
		3	3	23.52	22.76	PASS		
		6	0	22.50	21.32	PASS		
		1	0	23.01	23.78	PASS		
		1	3	22.94	23.73	PASS		
QPSK /	MCH	1	5	22.99	23.72	PASS		
16QAM		3	0	23.00	22.48	PASS		
TOQAW		3	2	22.99	22.45	PASS		
		3	3	22.94	22.40	PASS		
		6	0	21.94	20.86	PASS		
		1	0	23.28	23.32	PASS		
		1	3	23.23	23.31	PASS		
		1	5	23.27	23.31	PASS		
	HCH	3	0	23.39	22.75	PASS		
		3	2	23.44	22.71	PASS		
		3	3	23.42	22.77	PASS		
		6	0	22.46	21.44	PASS		

Conducted Output Power Test Result (Channel Bandwidth: 3 MHz)								
Madulation	Channal	RB Con	figuration	Average Power [dBm]	Average Power [dBm]	\/a nali at		
Modulation	Channel	Size	Offset	QPSK	16QAM	Verdict		
		1	0	23.55	23.66	PASS		
		1	7	23.49	23.61	PASS		
		1	14	23.49	23.55	PASS		
	LCH	8	0	22.50	21.39	PASS		
		8	4	22.44	21.36	PASS		
		8	7	22.57	21.56	PASS		
		15	0	22.49	21.52	PASS		
	мсн	1	0	22.83	22.93	PASS		
		1	7	22.88	23.08	PASS		
QPSK /		1	14	22.96	23.04	PASS		
16QAM		8	0	21.88	20.88	PASS		
TOQAM		8	4	21.90	20.96	PASS		
		8	7	21.91	20.98	PASS		
		15	0	21.88	21.05	PASS		
		1	0	23.49	23.43	PASS		
		1	7	23.51	23.55	PASS		
		1	14	23.46	23.52	PASS		
	HCH	8	0	22.41	21.56	PASS		
		8	4	22.50	21.62	PASS		
		8	7	22.37	21.55	PASS		
		15	0	22.45	21.44	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	23.45	23.56	PASS			
		1	12	23.57	23.53	PASS			
		1	24	23.35	23.44	PASS			
	LCH	12	0	22.56	21.70	PASS			
		12	6	22.45	21.88	PASS			
		12	13	22.58	21.84	PASS			
		25	0	22.52	21.76	PASS			
		1	0	22.79	22.87	PASS			
	MCH	1	12	22.83	22.98	PASS			
QPSK /		1	24	22.97	23.01	PASS			
16QAM		12	0	21.98	21.23	PASS			
TOQAW		12	6	22.01	21.24	PASS			
		12	13	21.93	21.33	PASS			
		25	0	21.95	21.24	PASS			
		1	0	23.41	21.90	PASS			
		1	12	23.47	21.96	PASS			
		1	24	23.45	21.70	PASS			
	HCH	12	0	22.46	21.68	PASS			
		12	6	22.39	21.69	PASS			
		12	13	22.35	21.61	PASS			
		25	0	22.37	21.65	PASS			

	Conducted Output Power Test Result (Channel Bandwidth: 10 MHz)								
Modulation	Channel	RB Con	figuration	Average Power [dBm]	Average Power [dBm]	Verdict			
Modulation	Channel	Size	Offset	QPSK	16QAM	verdict			
		1	0	23.52	23.53	PASS			
		1	24	23.33	23.44	PASS			
		1	49	23.18	23.17	PASS			
	LCH	25	0	22.41	21.59	PASS			
		25	12	22.41	21.52	PASS			
		25	25	22.30	21.45	PASS			
		50	0	22.39	21.53	PASS			
		1	0	22.83	22.83	PASS			
		1	24	22.93	22.98	PASS			
QPSK /		1	49	23.08	23.07	PASS			
16QAM	MCH	25	0	21.98	21.06	PASS			
TOQAIVI		25	12	22.00	21.03	PASS			
		25	25	21.96	21.18	PASS			
		50	0	22.05	21.10	PASS			
		1	0	23.40	22.71	PASS			
		1	24	23.42	22.80	PASS			
		1	49	23.36	22.79	PASS			
	HCH	25	0	22.39	21.59	PASS			
		25	12	22.46	21.60	PASS			
		25	25	22.51	21.59	PASS			
		50	0	22.42	21.59	PASS			

	Conducted Output Power Test Result (Channel Bandwidth: 15 MHz)								
Madulation	Channal	RB Con	figuration	Average Power [dBm]	Average Power [dBm]	\/a ==li =4			
Modulation	Channel	Size	Offset	QPSK	16QAM	Verdict			
		1	0	23.45	23.62	PASS			
		1	37	23.32	23.45	PASS			
		1	74	22.86	23.03	PASS			
	LCH	37	0	22.36	21.46	PASS			
		37	18	22.28	21.29	PASS			
		37	38	22.02	21.04	PASS			
		75	0	22.36	21.37	PASS			
		1	0	22.78	22.83	PASS			
	МСН	1	37	22.90	23.07	PASS			
ODCK /		1	74	23.06	23.17	PASS			
QPSK / 16QAM		37	0	21.90	21.05	PASS			
IOQAW		37	18	21.84	21.06	PASS			
		37	38	22.00	21.15	PASS			
		75	0	21.99	21.07	PASS			
		1	0	23.28	22.47	PASS			
		1	37	23.50	22.68	PASS			
		1	74	23.45	22.78	PASS			
	нсн	37	0	22.41	21.61	PASS			
		37	18	22.31	21.66	PASS			
		37	38	22.39	21.61	PASS			
		75	0	22.35	21.48	PASS			

	Conducted Output Power Test Result (Channel Bandwidth: 20 MHz)								
Madulation	Channal	RB Con	figuration	Average Power [dBm]	Average Power [dBm]	\/ordiot			
Modulation	Channel	Size	Offset	QPSK	16QAM	Verdict			
		1	0	23.68	22.60	PASS			
		1	49	23.29	22.25	PASS			
		1	99	22.99	21.96	PASS			
	LCH	50	0	22.27	21.47	PASS			
		50	25	22.21	21.36	PASS			
		50	50	22.00	21.02	PASS			
		100	0	22.22	21.19	PASS			
	мсн	1	0	23.07	22.21	PASS			
		1	49	23.12	22.20	PASS			
QPSK /		1	99	23.35	22.36	PASS			
16QAM		50	0	22.03	21.00	PASS			
TOQAM		50	25	22.05	21.14	PASS			
		50	50	22.12	21.25	PASS			
		100	0	21.99	21.07	PASS			
		1	0	23.20	22.27	PASS			
		1	49	23.45	22.50	PASS			
		1	99	23.67	22.85	PASS			
	HCH	50	0	22.14	21.28	PASS			
		50	25	22.28	21.40	PASS			
		50	50	22.36	21.52	PASS			
		100	0	22.32	21.44	PASS			

E.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	Griannei	[dB]	[dB]	verdict		
	LCH	5.64	<13	PASS		
QPSK	MCH	5.57	<13	PASS		
	HCH	5.41	<13	PASS		
	LCH	6.52	<13	PASS		
16QAM	MCH	6.48	<13	PASS		
	HCH	6.45	<13	PASS		

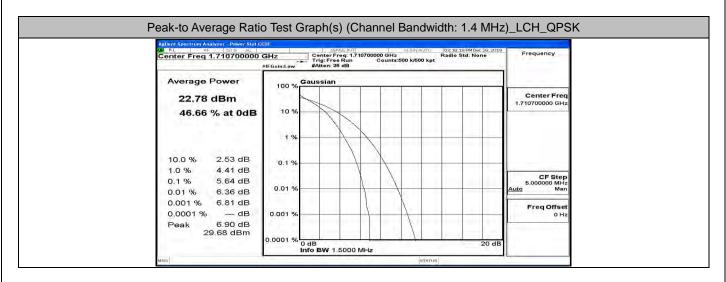
	Peak-to Average Ratio Test Result (Channel Bandwidth: 3 MHz)						
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict			
Modulation	Channel	[dB]	[dB]	verdict			
	LCH	5.62	<13	PASS			
QPSK	MCH	5.58	<13	PASS			
	HCH	5.64	<13	PASS			
	LCH	6.6	<13	PASS			
16QAM	MCH	6.54	<13	PASS			
	HCH	6.4	<13	PASS			

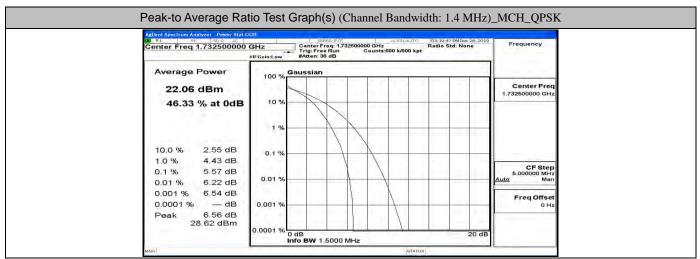
	Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)						
Modulation	Channel	Peak-to-Average Ratio	Limit	Vordict			
Modulation	Channel	[dB]	[dB]	Verdict			
	LCH	5.55	<13	PASS			
QPSK	MCH	5.54	<13	PASS			
	HCH	5.5	<13	PASS			
	LCH	6.45	<13	PASS			
16QAM	MCH	6.41	<13	PASS			
	HCH	6.25	<13	PASS			

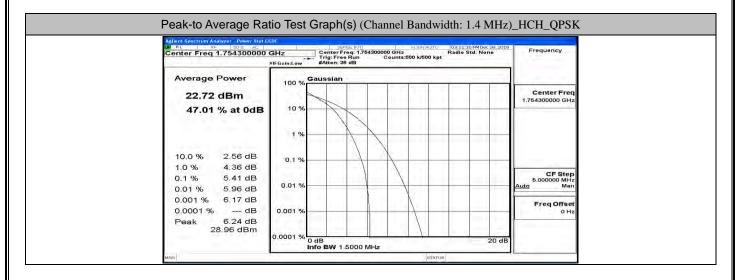
Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)						
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict		
Modulation	Griannei	[dB]	[dB]	verdict		
	LCH	5.59	<13	PASS		
QPSK	MCH	5.56	<13	PASS		
	HCH	5.66	<13	PASS		
	LCH	6.29	<13	PASS		
16QAM	MCH	6.31	<13	PASS		
	HCH	6.37	<13	PASS		

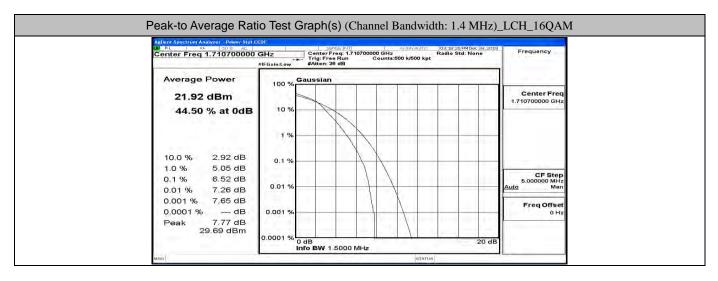
Peak-to Average Ratio Test Result (Channel Bandwidth: 15 MHz)						
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict		
Modulation	Channel	[dB]	[dB]	verdict		
	LCH	4.88	<13	PASS		
QPSK	MCH	4.83	<13	PASS		
	HCH	5.1	<13	PASS		
	LCH	6.22	<13	PASS		
16QAM	MCH	6.19	<13	PASS		
	HCH	6.3	<13	PASS		

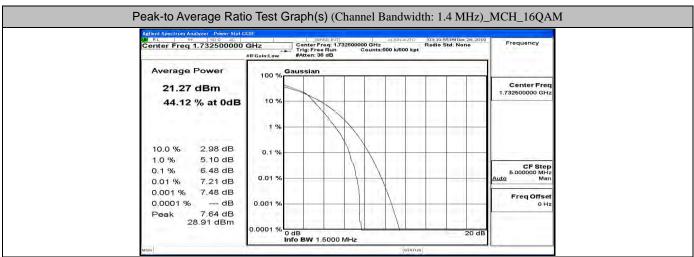
Peak-to Average Ratio Test Result (Channel Bandwidth: 20 MHz)				
Mandada Gara	Channel	Peak-to-Average Ratio	Limit	Verdict
Modulation		[dB]	[dB]	
QPSK	LCH	5.68	<13	PASS
	MCH	5.6	<13	PASS
	HCH	5.81	<13	PASS
16QAM	LCH	6.74	<13	PASS
	MCH	6.72	<13	PASS
	HCH	6.67	<13	PASS

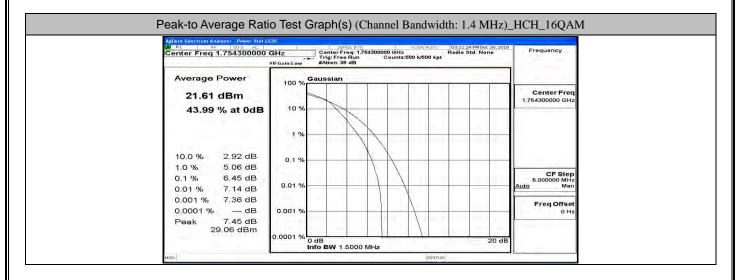


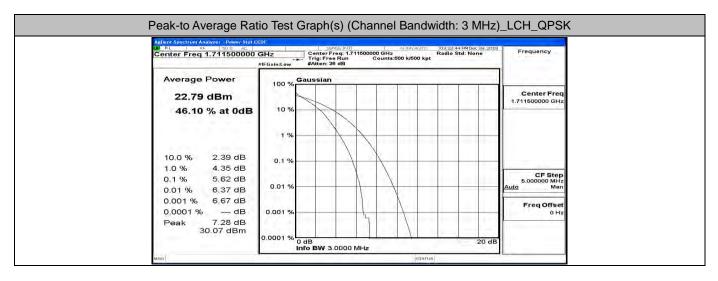


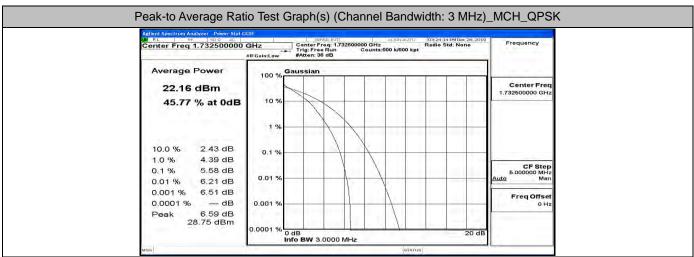


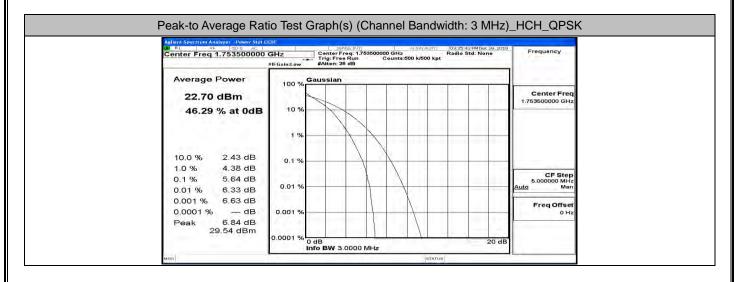


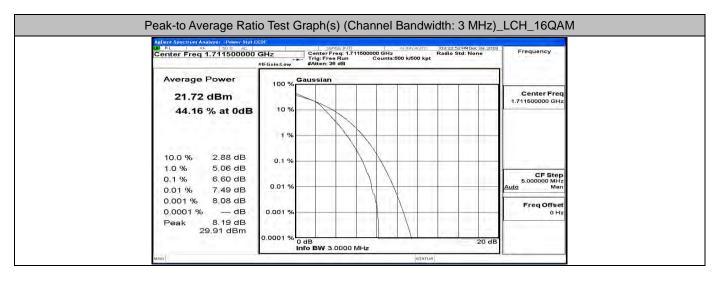


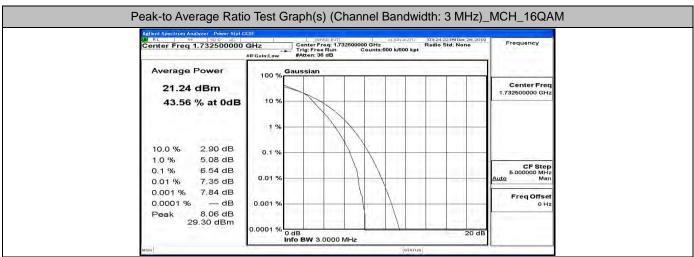


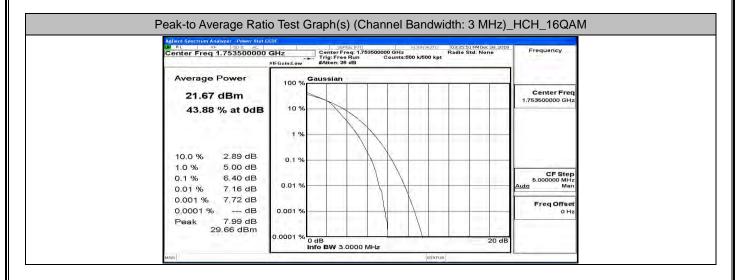


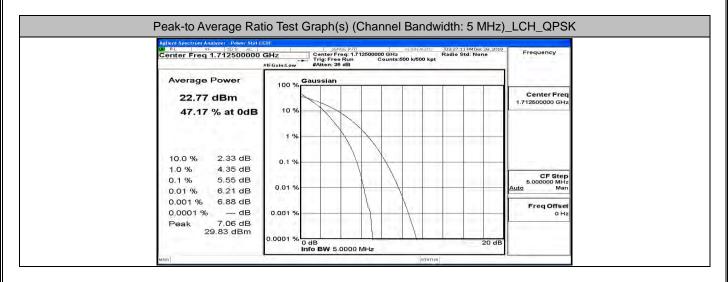


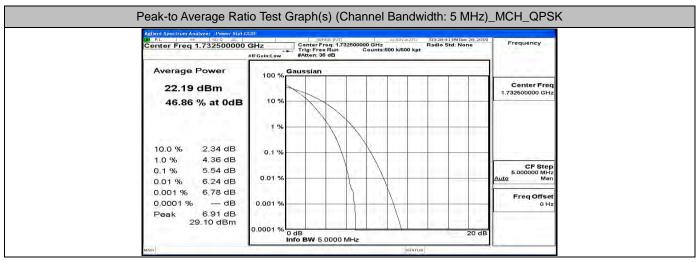


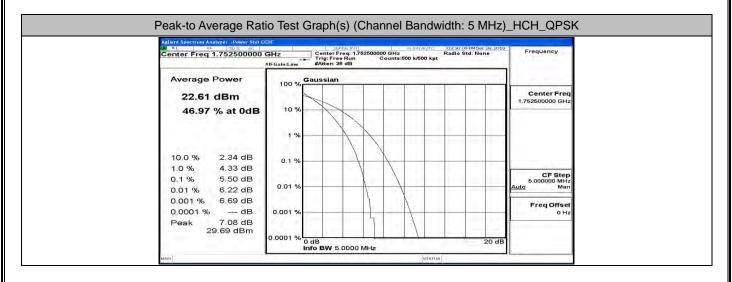


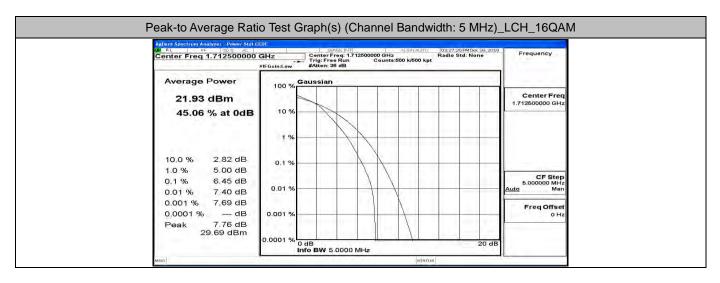


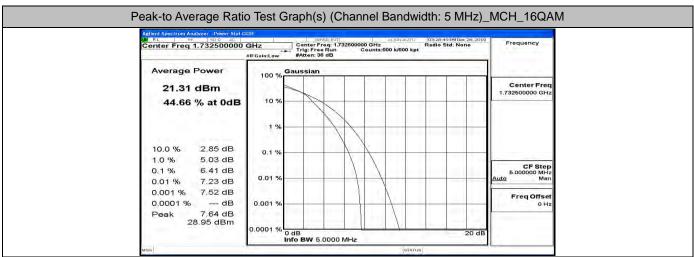


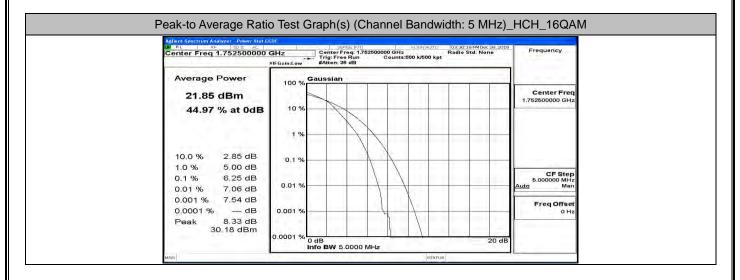


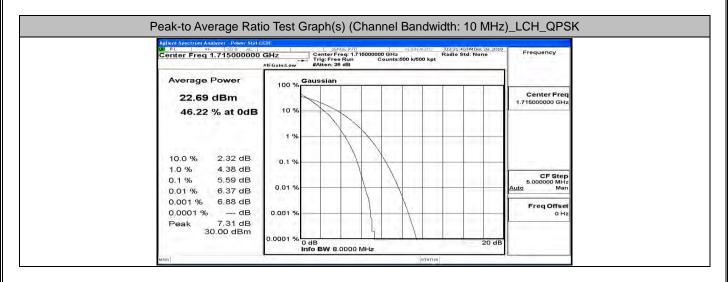


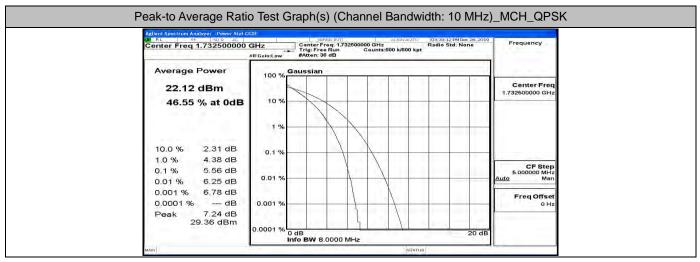


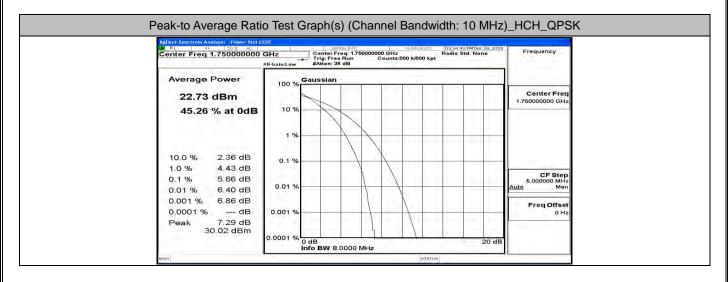


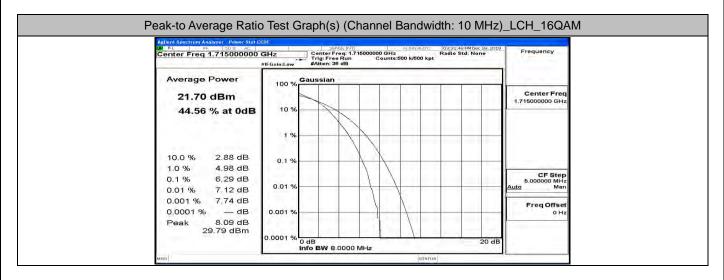


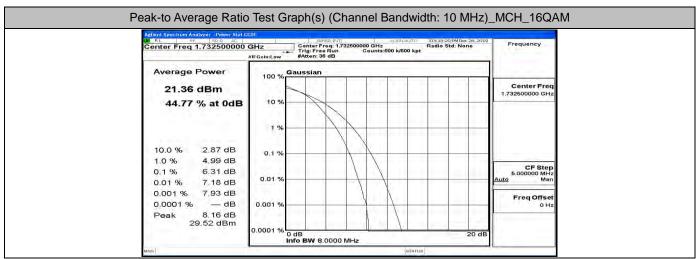


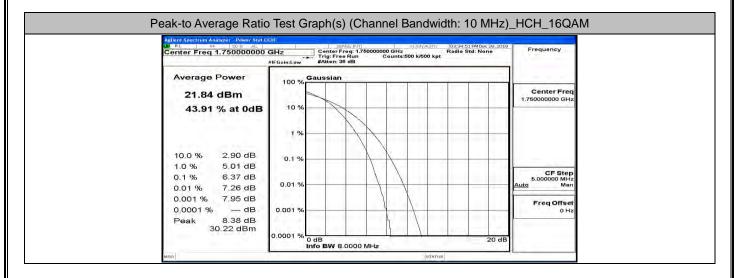


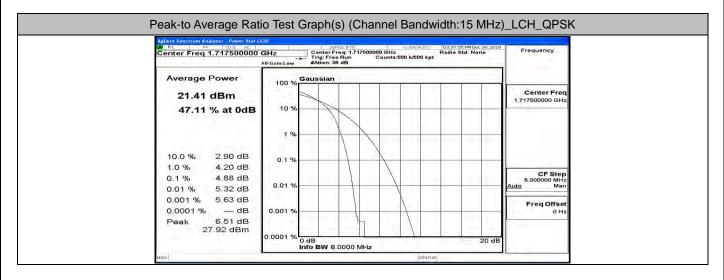


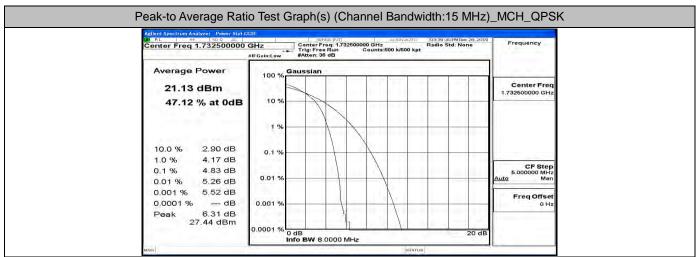


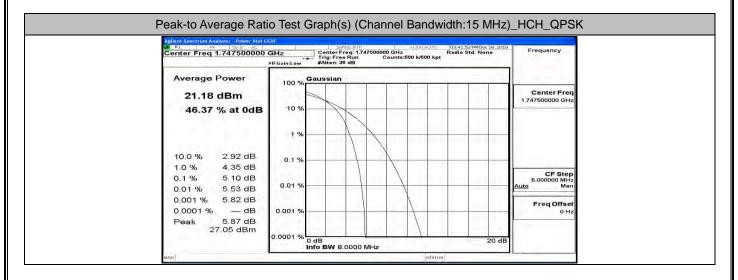


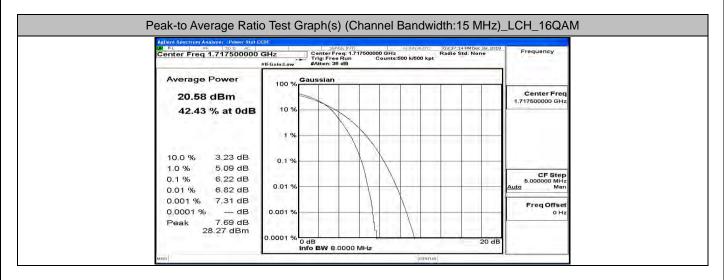


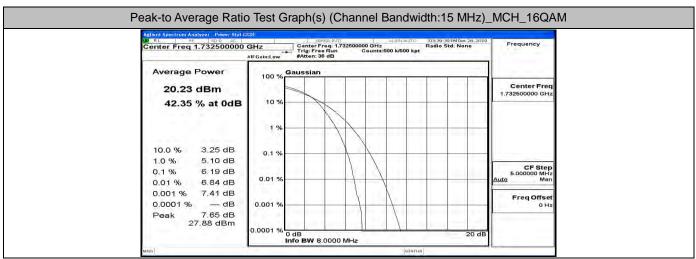


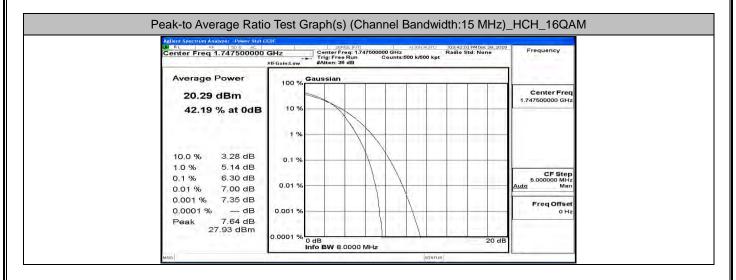


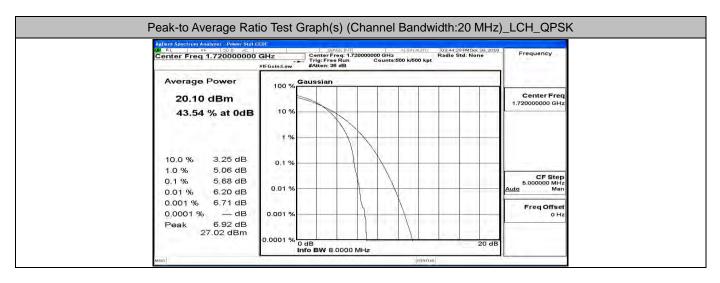


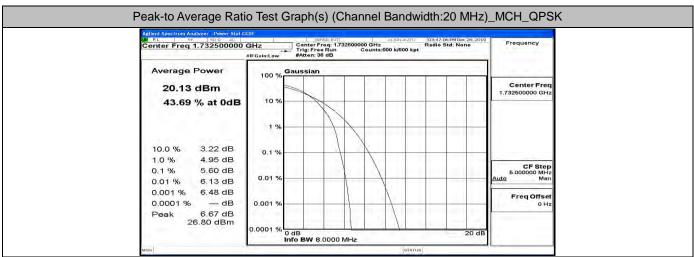


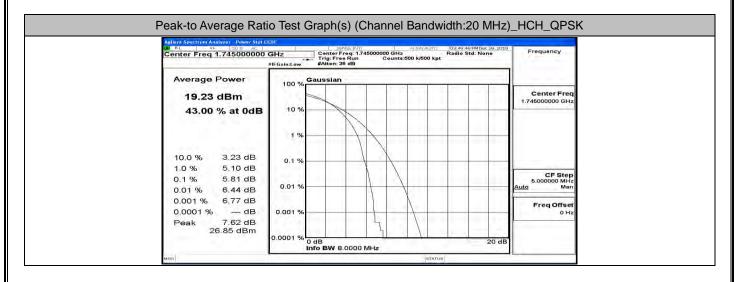


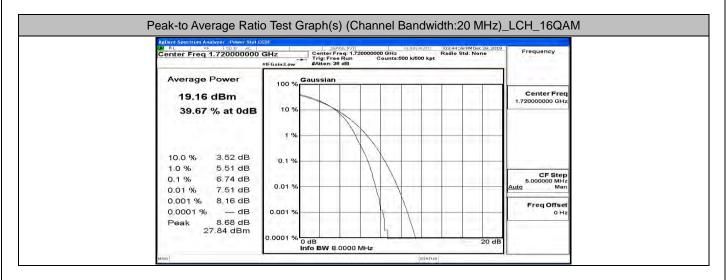


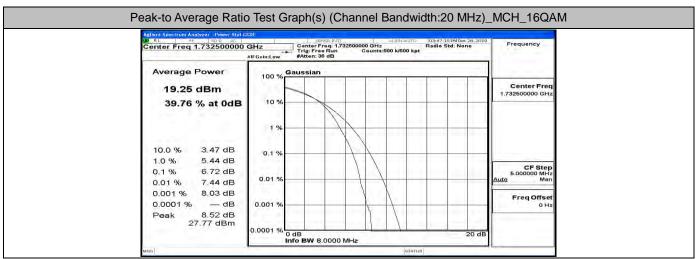


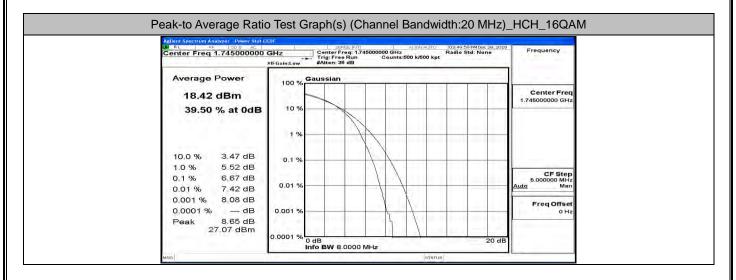












E.3 26dB Bandwidth and Occupied Bandwidth

EBW & OBW Test Result (Channel Bandwidth: 1.4 MHz)				
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict
Modulation		(MHz)	(MHz)	
QPSK	LCH	1.0807	1.248	PASS
	MCH	1.0749	1.205	PASS
	HCH	1.0783	1.212	PASS
16QAM	LCH	1.0813	1.233	PASS
	MCH	1.0805	1.228	PASS
	HCH	1.0760	1.297	PASS

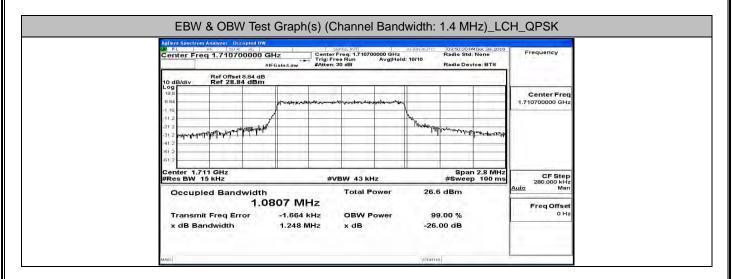
EBW & OBW Test Result (Channel Bandwidth: 3 MHz)				
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict
Modulation		(MHz)	(MHz)	
QPSK	LCH	2.6888	2.958	PASS
	MCH	2.6851	2.969	PASS
	HCH	2.6827	2.938	PASS
16QAM	LCH	2.6833	2.969	PASS
	MCH	2.6817	2.957	PASS
	HCH	2.6863	2.981	PASS

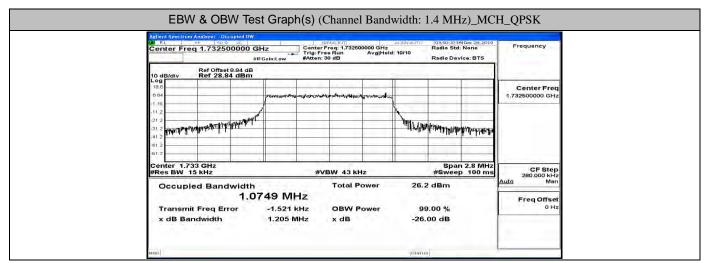
EBW & OBW Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict
Modulation		(MHz)	(MHz)	
QPSK	LCH	4.4691	4.781	PASS
	MCH	4.4732	4.804	PASS
	HCH	4.4664	4.822	PASS
16QAM	LCH	4.4745	4.811	PASS
	MCH	4.4670	4.843	PASS
	HCH	4.4780	4.874	PASS

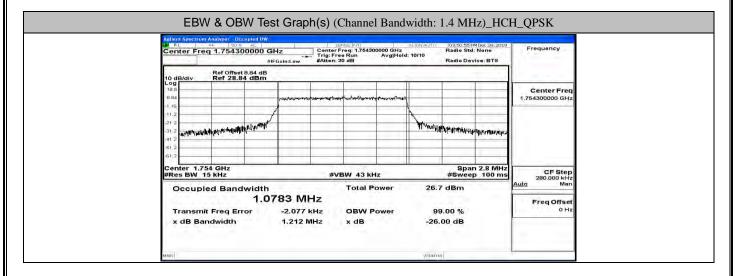
EBW & OBW Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict
Modulation		(MHz)	(MHz)	
QPSK	LCH	8.9171	9.455	PASS
	MCH	8.9306	9.535	PASS
	HCH	8.9405	9.448	PASS
16QAM	LCH	8.9272	9.472	PASS
	MCH	8.9181	9.423	PASS
	HCH	8.9573	9.515	PASS

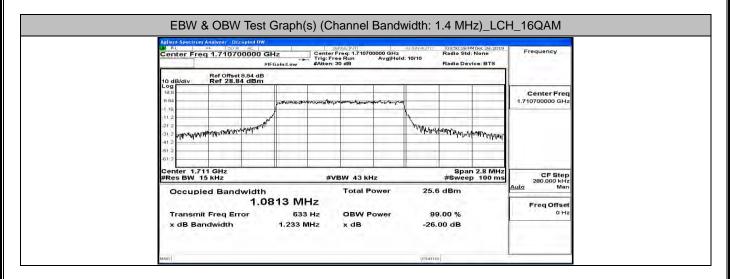
EBW & OBW Test Result (Channel Bandwidth: 15 MHz)				
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict
Modulation		(MHz)	(MHz)	
QPSK	LCH	13.356	14.04	PASS
	MCH	13.362	14.03	PASS
	HCH	13.433	14.15	PASS
16QAM	LCH	13.359	14.01	PASS
	MCH	13.357	14.05	PASS
	HCH	13.429	14.13	PASS

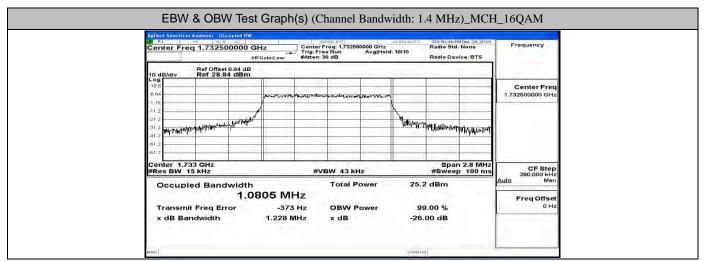
EBW & OBW Test Result (Channel Bandwidth: 20 MHz)				
Mandada Gara	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict
Modulation		(MHz)	(MHz)	
QPSK	LCH	17.843	18.63	PASS
	MCH	17.818	18.64	PASS
	HCH	17.933	18.75	PASS
16QAM	LCH	17.855	18.79	PASS
	MCH	17.834	18.57	PASS
	HCH	17.943	18.78	PASS

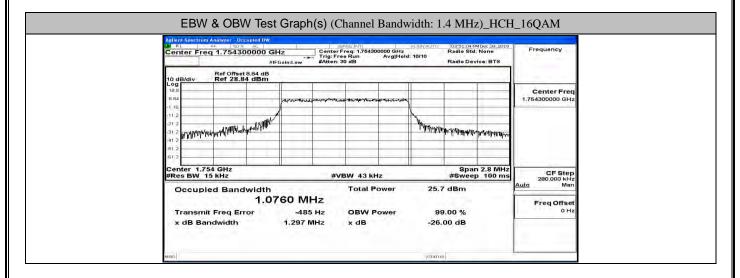


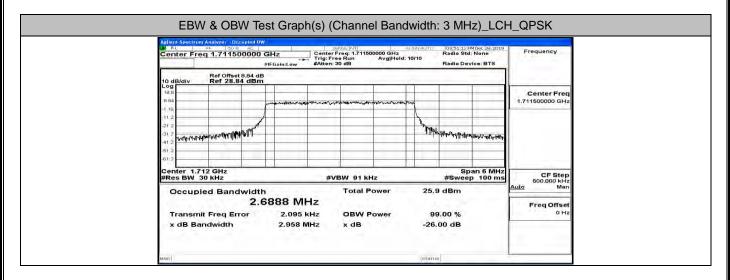


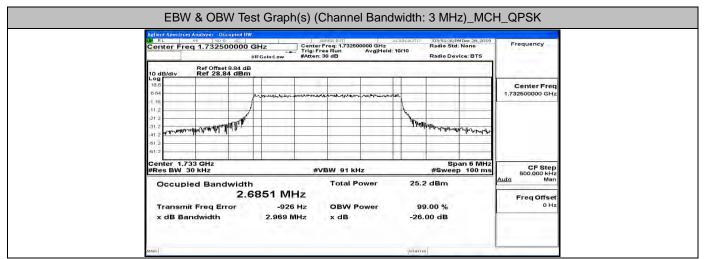


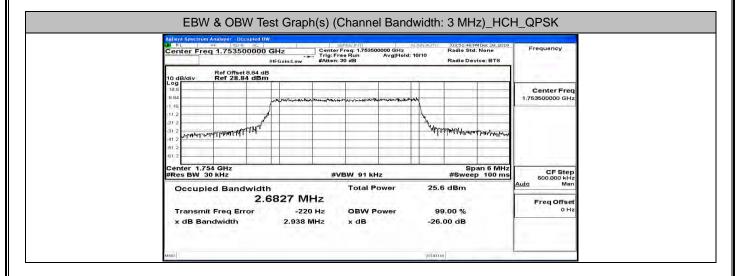


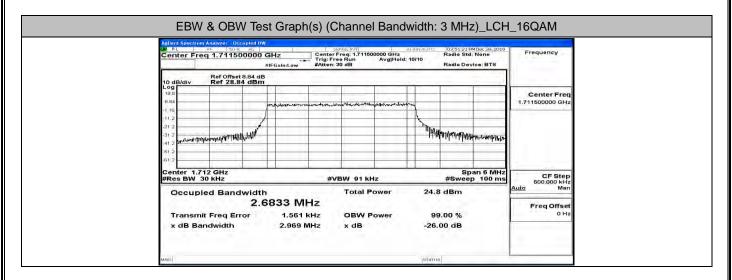


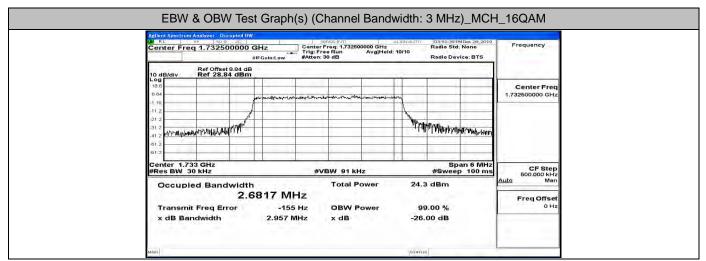


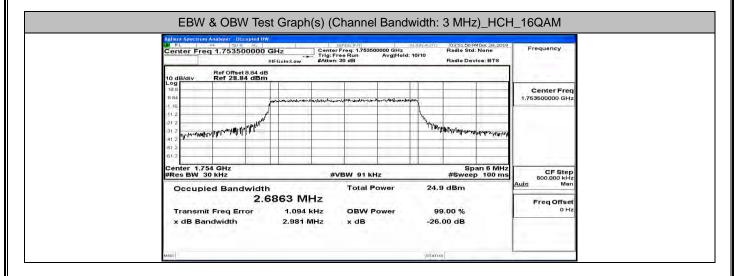


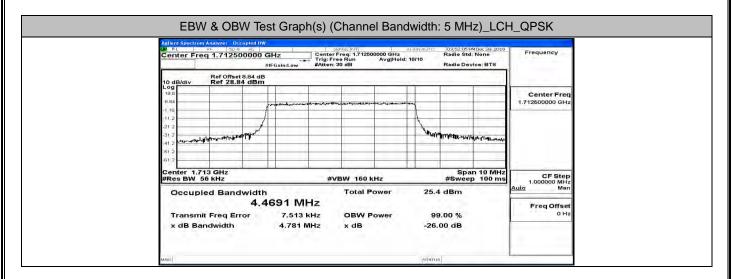


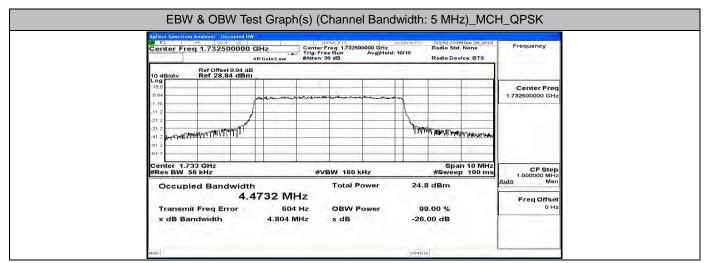


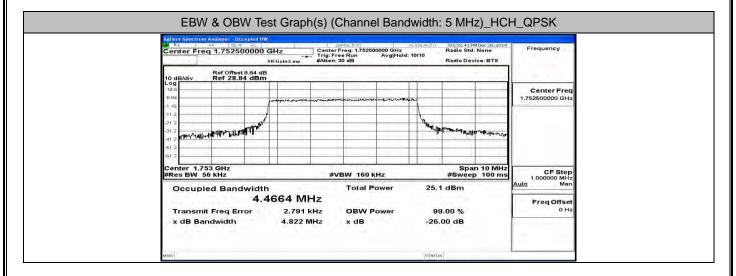


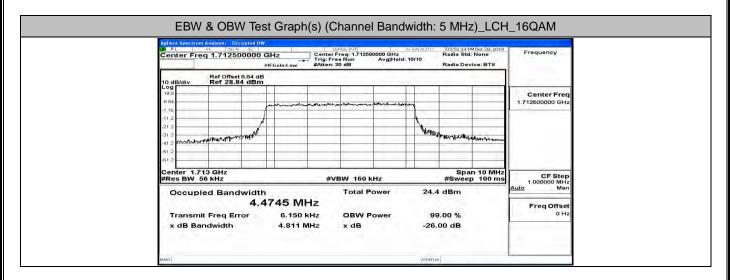


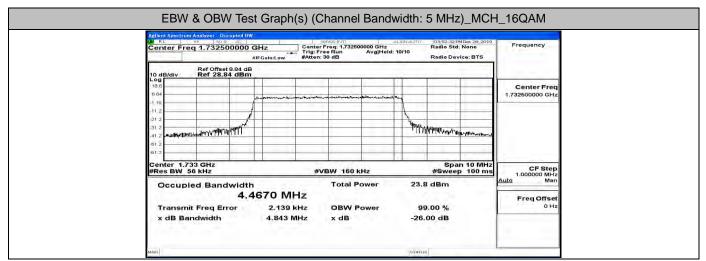


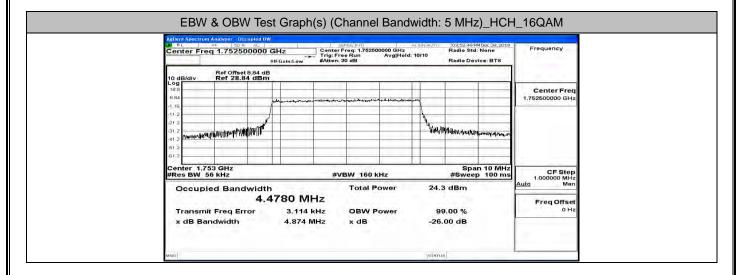


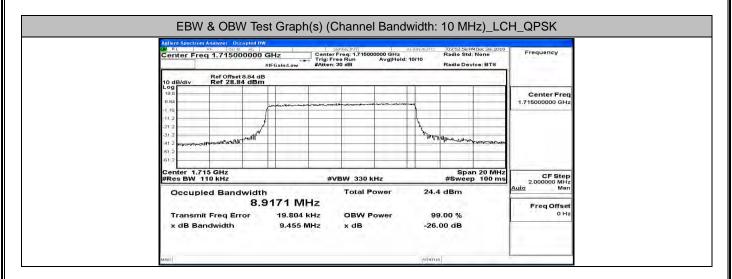


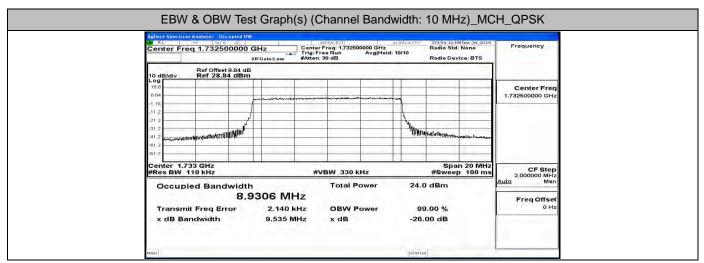


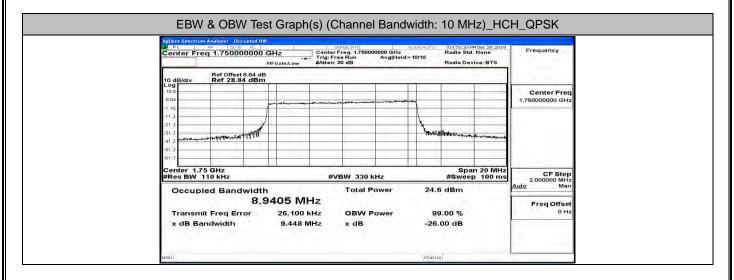


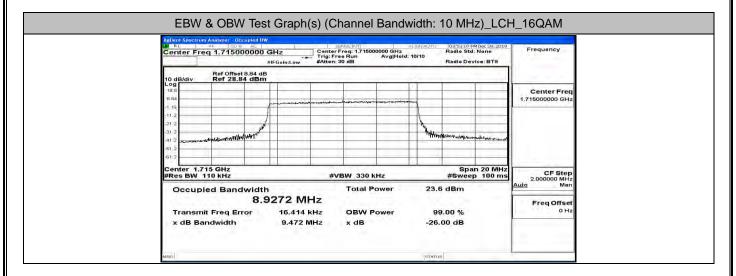


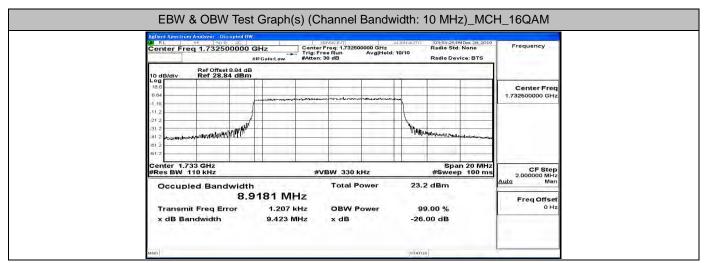


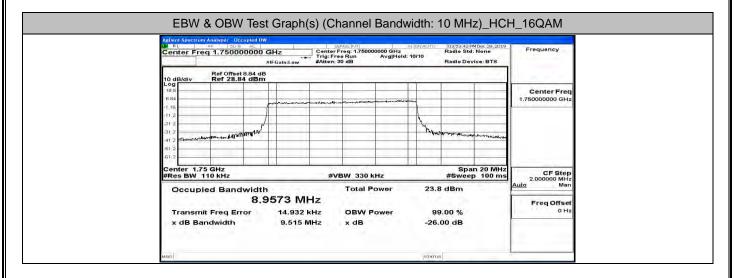


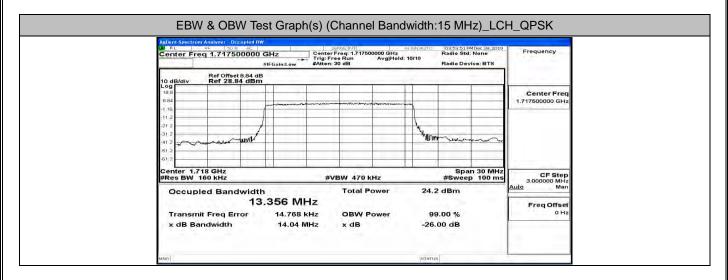


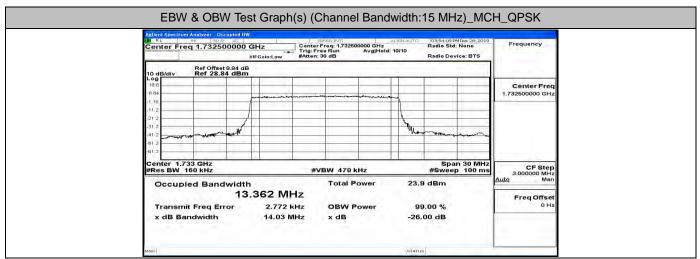


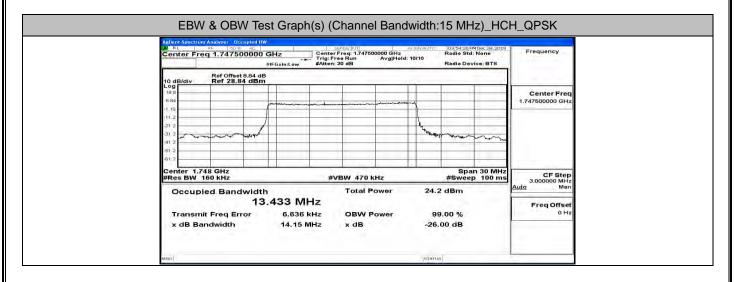


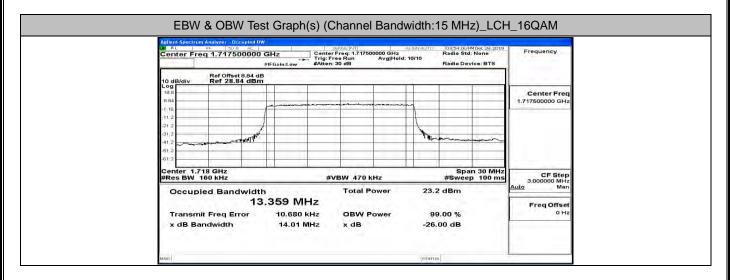


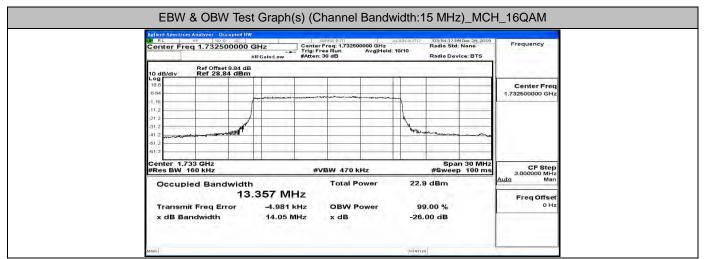


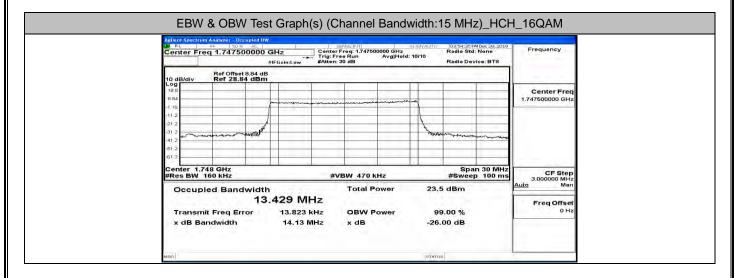


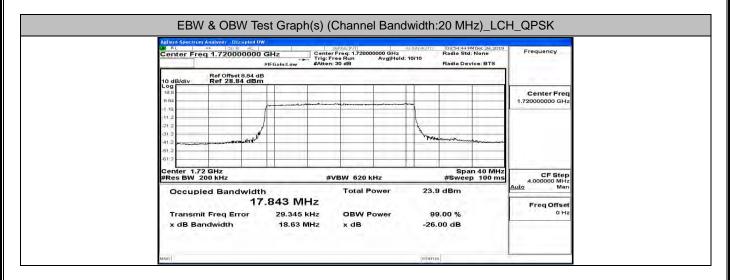


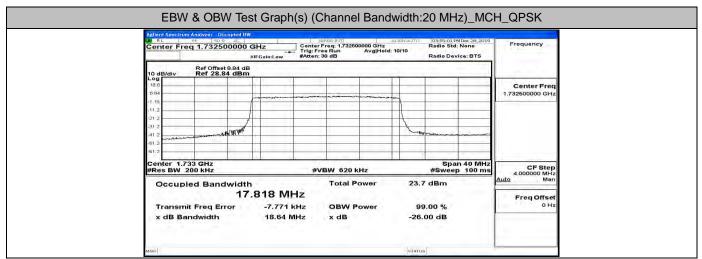


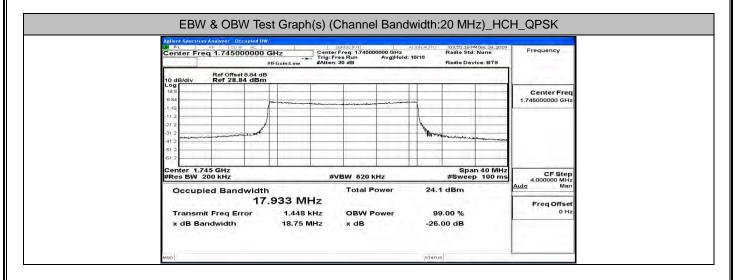


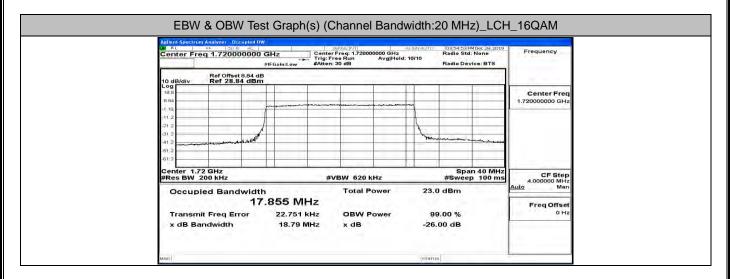


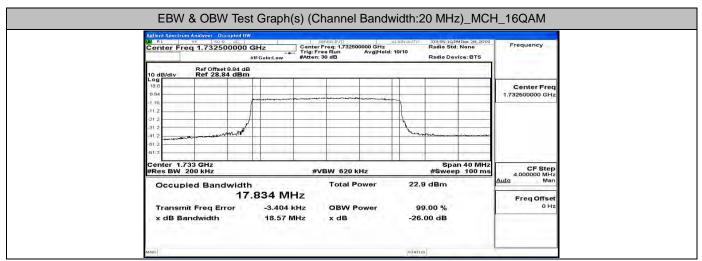


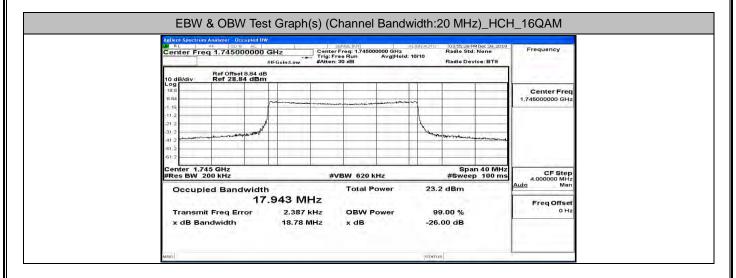




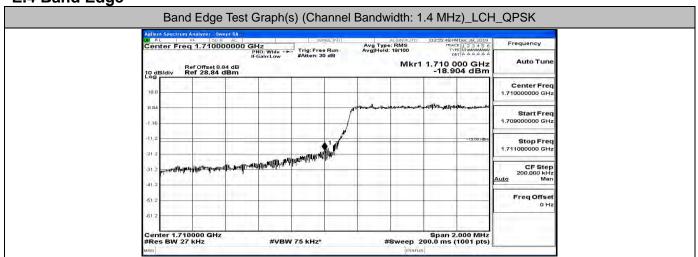


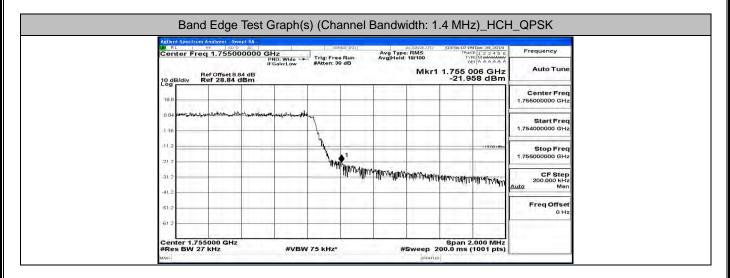


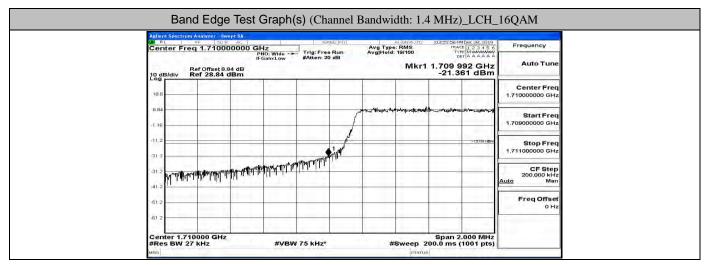


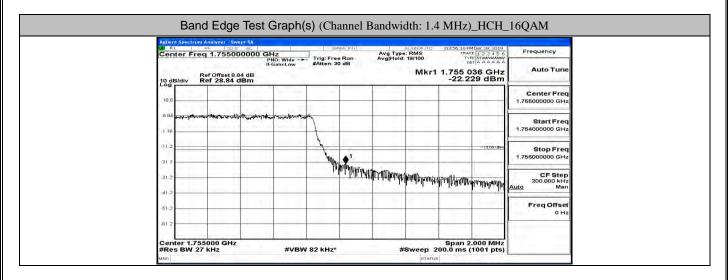


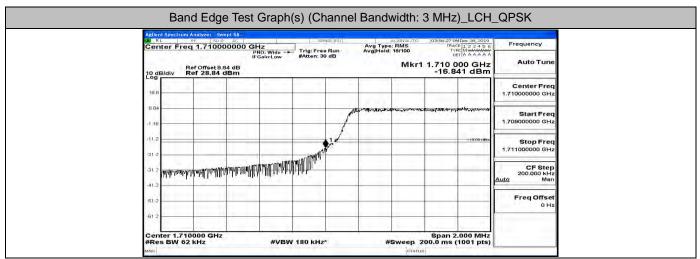
E.4 Band Edge

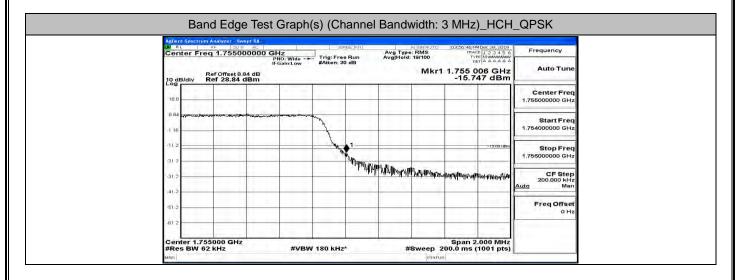


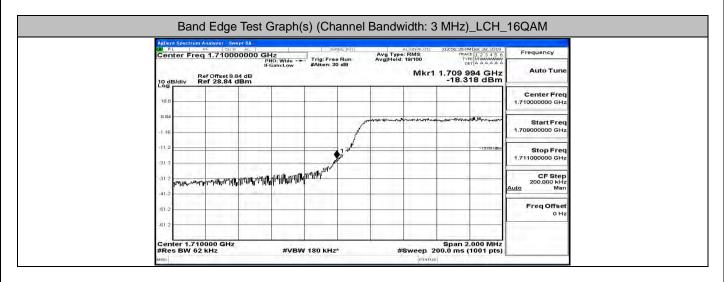


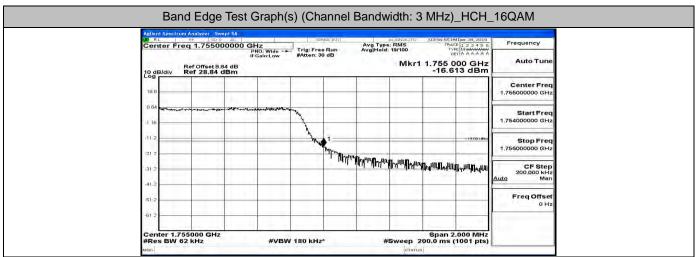


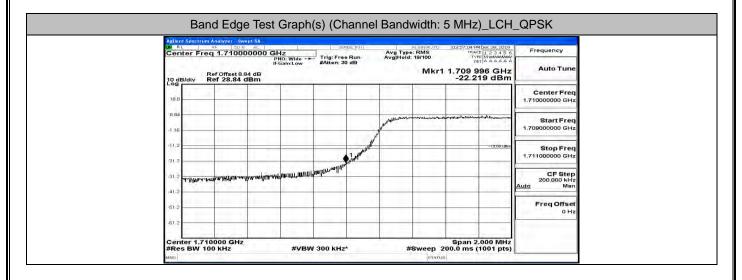


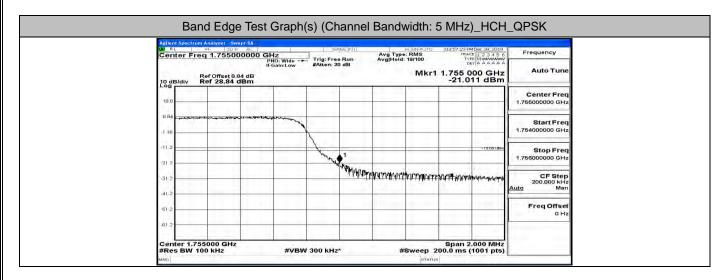


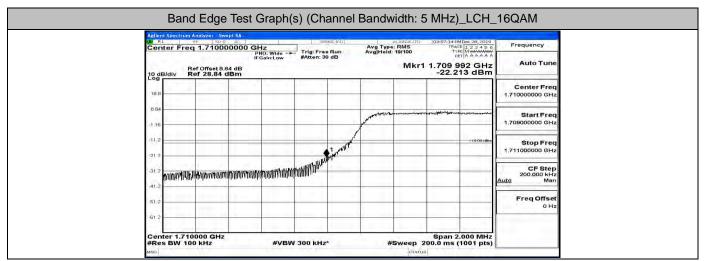


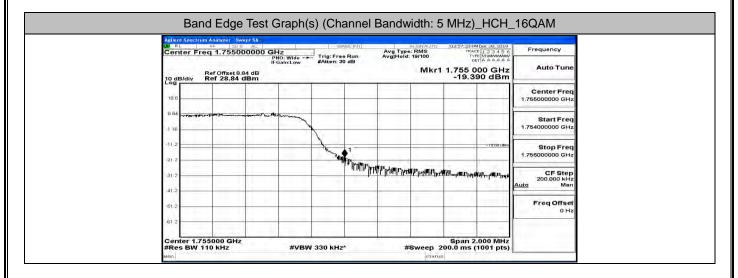


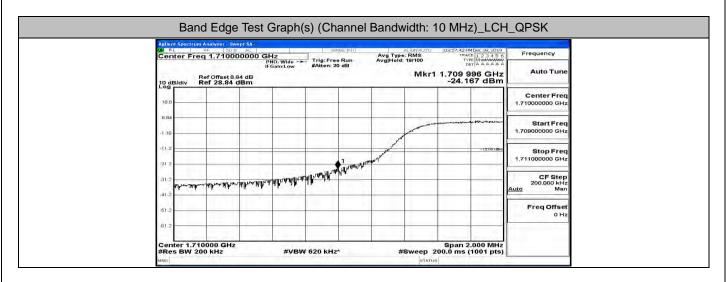


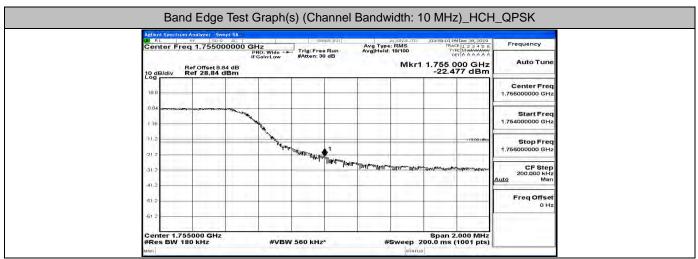


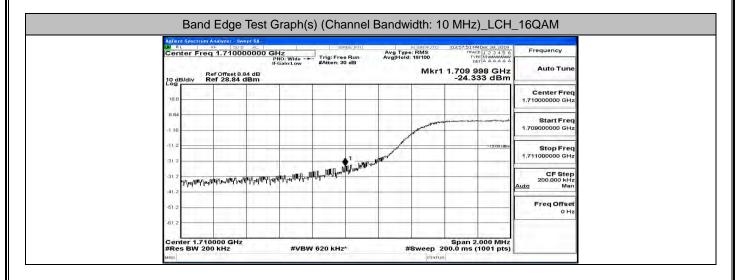


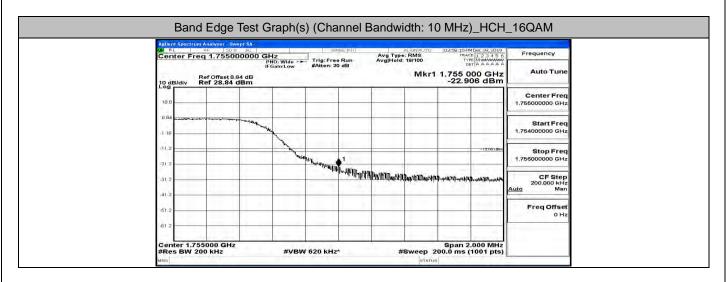


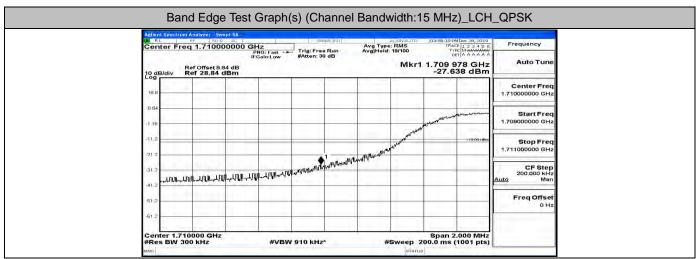


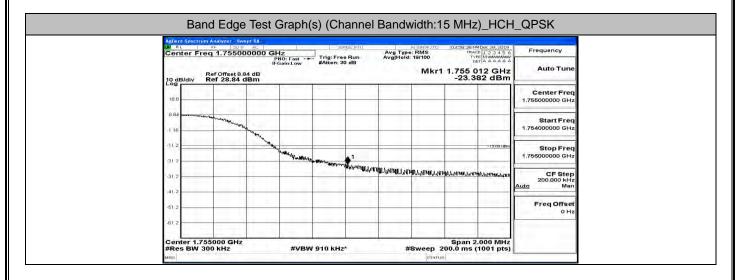


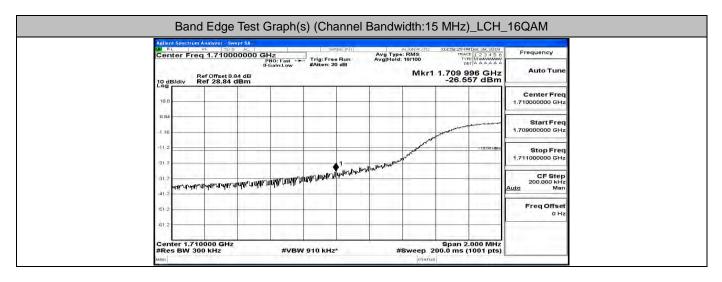


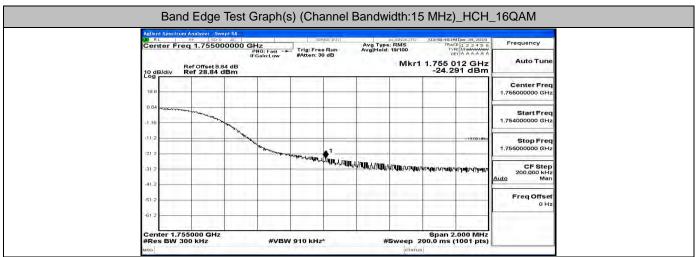


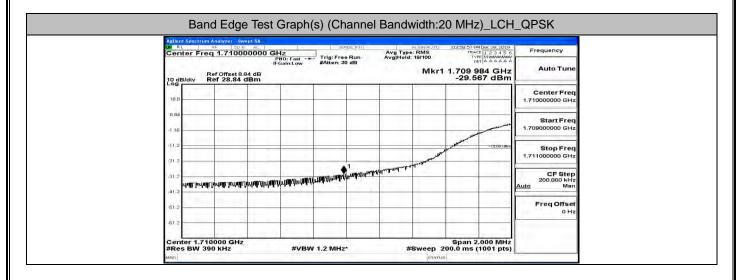


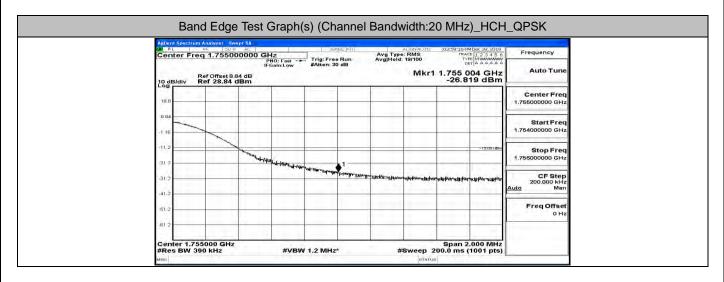


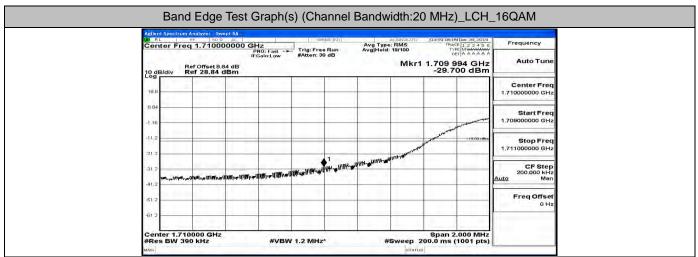


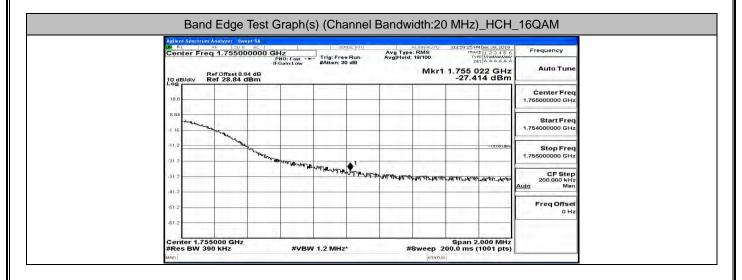




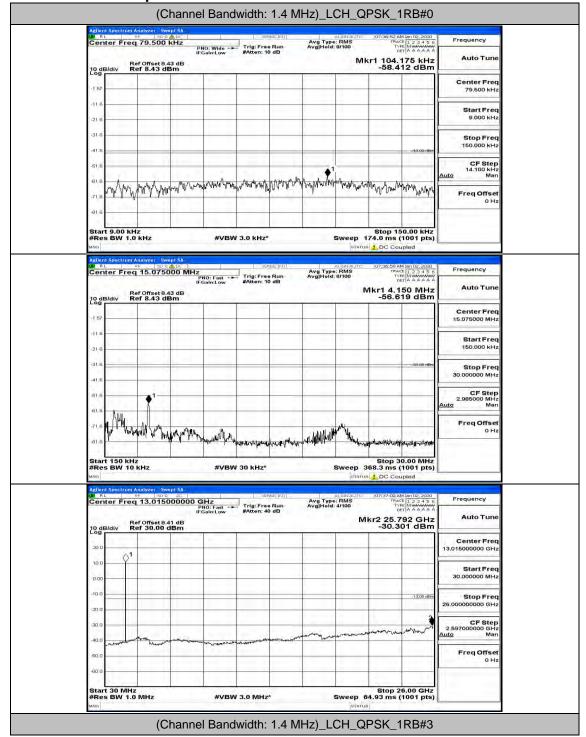


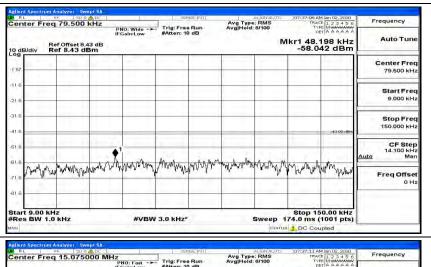






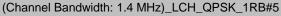
E.5 Conducted Spurious Emission

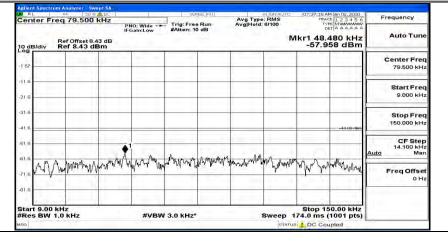


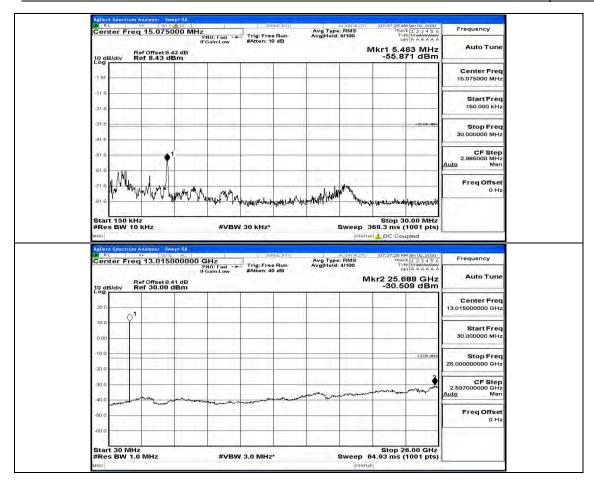


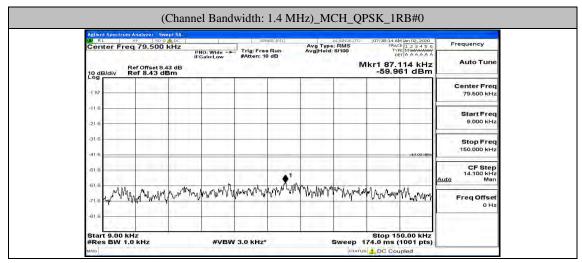


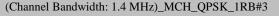


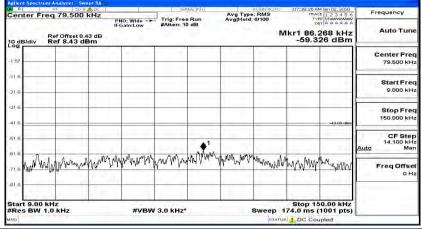


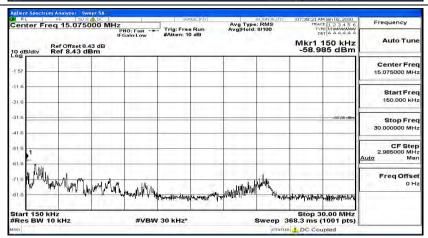


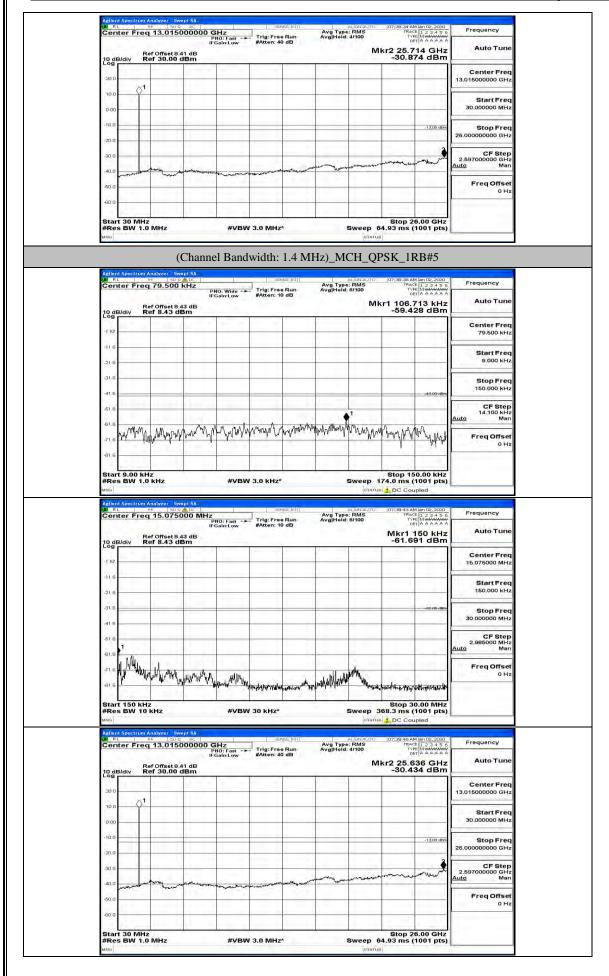


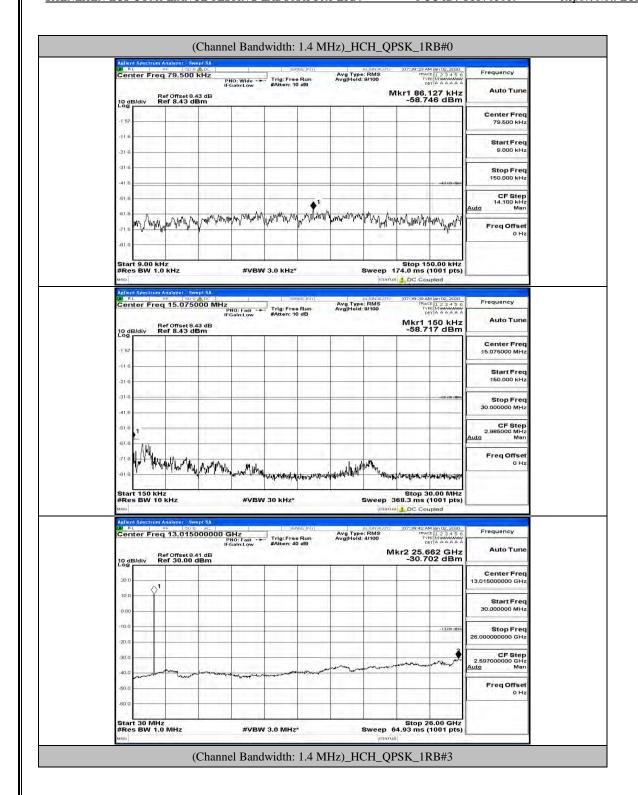


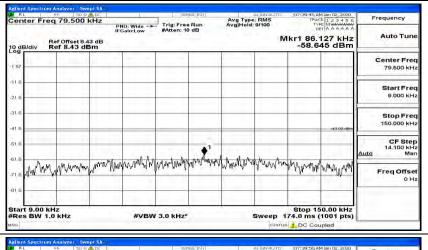






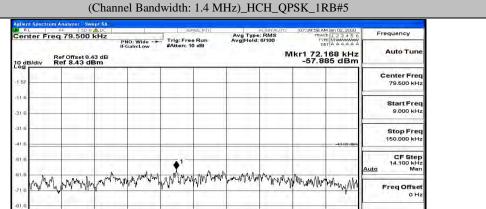






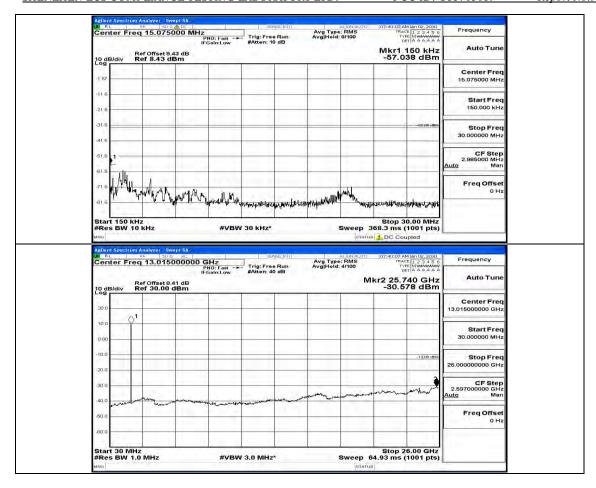


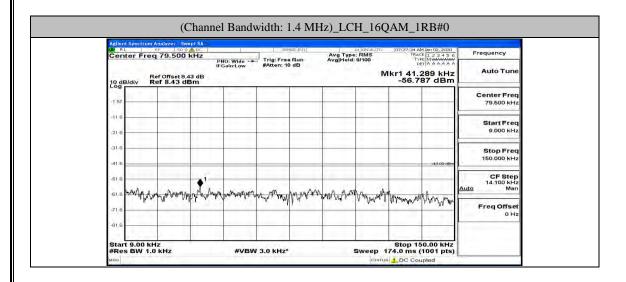


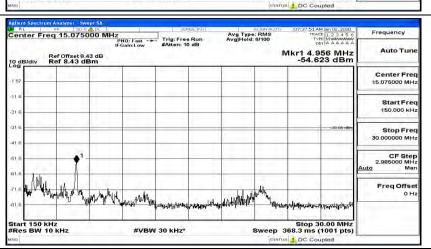


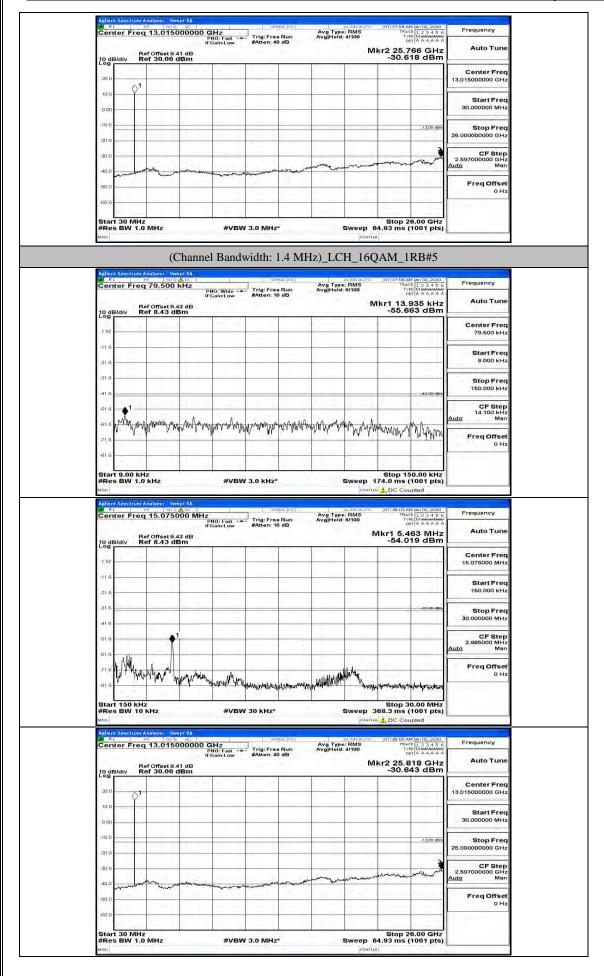
#VBW 3.0 kHz*

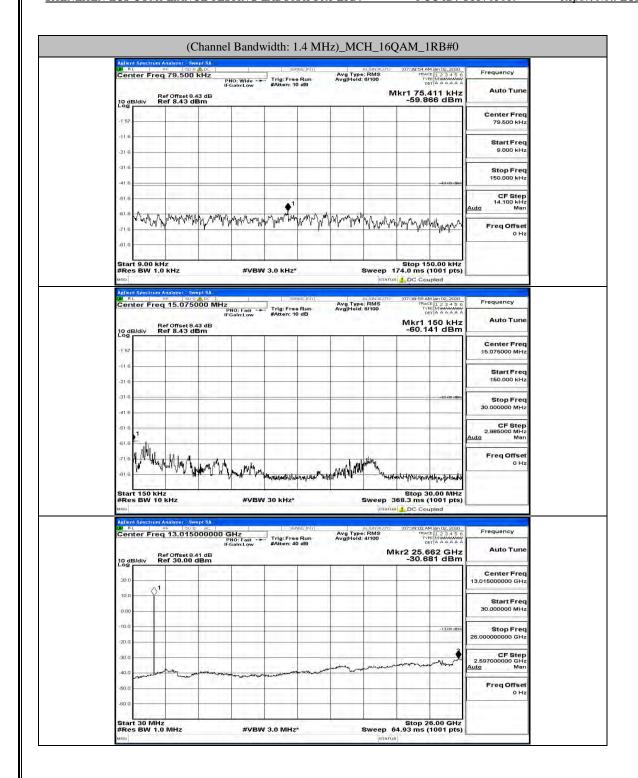
Stop 150.00 kHz Sweep 174.0 ms (1001 pts)

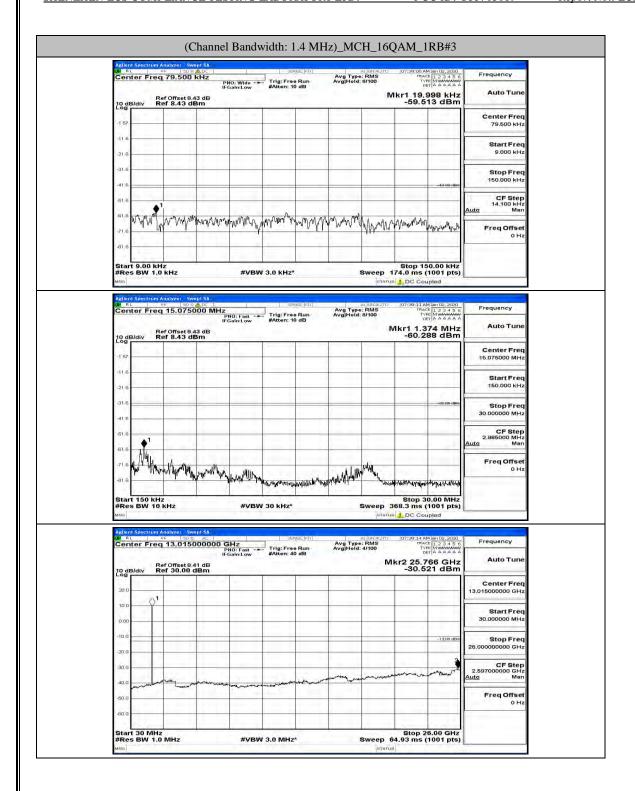


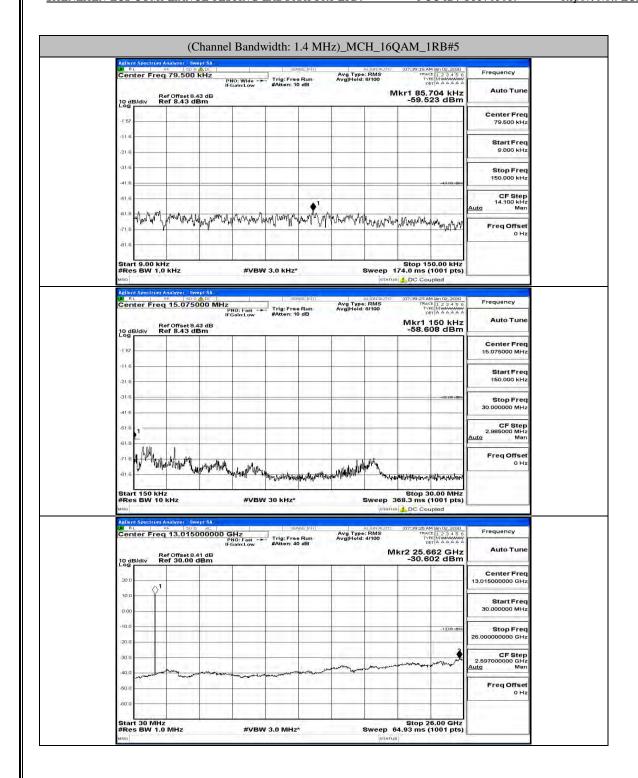


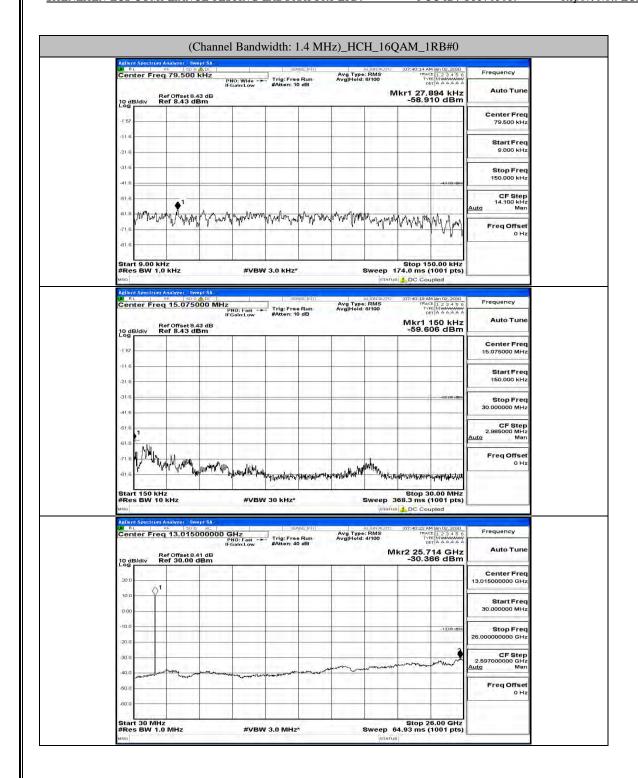


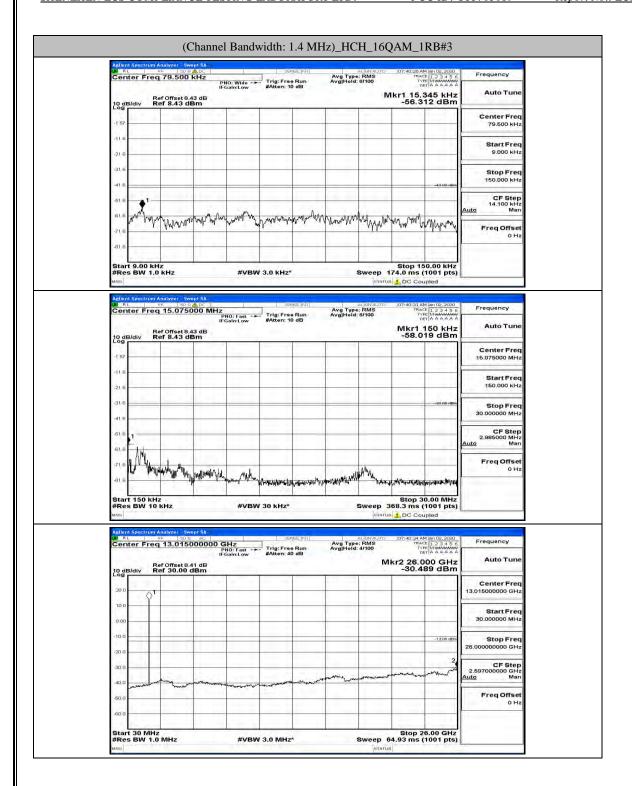


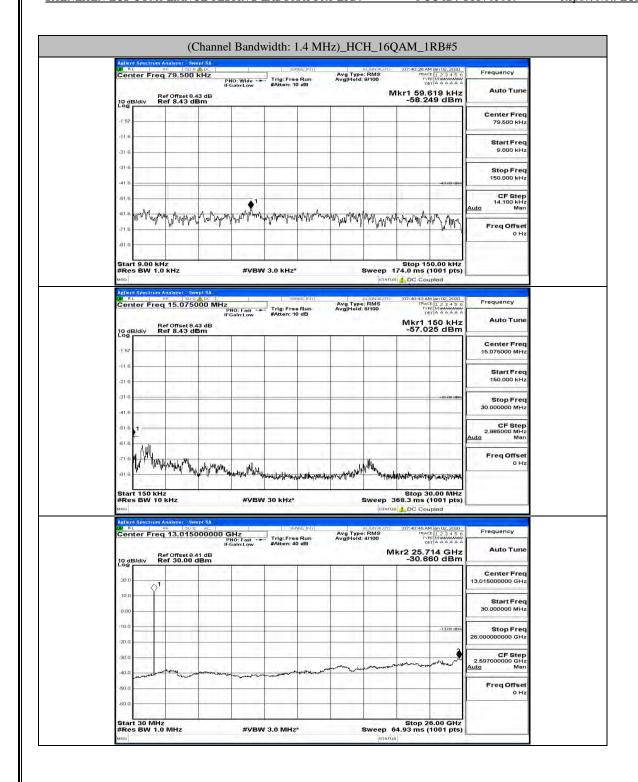












Channel Bandwidth: 3 MHz

