Appendix B: Test Data for E-UTRA Band 2

Product Name: 4G Mi-Fi Trade Mark: LOGIC, iSWAG, UNONU **Test Model: ML10**

Environmental Conditions

Temperature:	23.1° C
Relative Humidity:	53.6%
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]	Verdict		
Modulation	Channel	Size	Offset	QPSK	16QAM	verdict		
		1	0	22.46	21.44	PASS		
		1	3	22.70	21.54	PASS		
		1	5	22.58	21.58	PASS		
	LCH	3	0	22.71	21.74	PASS		
		3	2	22.84	21.76	PASS		
		3	3	22.69	21.88	PASS		
		6	0	21.54	20.56	PASS		
		1	0	22.79	21.42	PASS		
	MCH	1	3	22.89	21.68	PASS		
QPSK /		1	5	22.69	21.54	PASS		
16QAM		3	0	22.78	21.94	PASS		
TOQAIVI		3	2	22.89	21.99	PASS		
		3	3	22.77	21.78	PASS		
		6	0	21.63	20.61	PASS		
		1	0	22.78	21.99	PASS		
		1	3	22.69	22.08	PASS		
		1	5	22.65	21.65	PASS		
	HCH	3	0	22.89	21.97	PASS		
		3	2	22.74	21.90	PASS		
		3	3	22.71	21.90	PASS		
		6	0	21.80	20.94	PASS		

	Conducted Output Power Test Result (Channel Bandwidth: 3 MHz)								
Modulation	Channal	RB Configuration		Average Power [dBm]	Average Power [dBm]	Vardiet			
Modulation	Channel	Size	Offset	QPSK	16QAM	Verdict			
		1	0	22.60	22.01	PASS			
		1	7	22.87	22.06	PASS			
		1	14	22.71	21.86	PASS			
	LCH	8	0	21.76	20.79	PASS			
		8	4	21.74	20.84	PASS			
		8	7	21.57	20.81	PASS			
		15	0	21.67	20.74	PASS			
		1	0	22.77	22.20	PASS			
	МСН	1	7	22.89	22.21	PASS			
QPSK /		1	14	22.71	21.96	PASS			
16QAM		8	0	21.83	20.93	PASS			
TOQAW		8	4	21.87	20.78	PASS			
		8	7	21.81	20.74	PASS			
		15	0	21.79	20.93	PASS			
		1	0	22.80	21.60	PASS			
		1	7	23.04	21.81	PASS			
		1	14	22.27	21.14	PASS			
	HCH	8	0	21.83	20.90	PASS			
		8	4	21.75	20.71	PASS			
		8	7	21.69	20.62	PASS			
		15	0	21.82	20.96	PASS			

Conducted Output Power Test Result (Channel Bandwidth: 5 MHz)								
Modulation	Channel	RB Con	figuration	Average Power [dBm]	Average Power [dBm]	Verdict		
Modulation	Channel	Size	Offset	QPSK	16QAM	verdict		
		1	0	22.85	21.44	PASS		
		1	12	23.09	21.61	PASS		
		1	24	22.82	21.35	PASS		
	LCH	12	0	21.80	20.87	PASS		
		12	6	21.72	20.87	PASS		
		12	13	21.71	20.77	PASS		
		25	0	21.76	20.86	PASS		
		1	0	22.76	21.70	PASS		
	MCH	1	12	23.08	21.57	PASS		
QPSK /		1	24	22.87	21.48	PASS		
16QAM		12	0	21.86	21.07	PASS		
IOQAIVI		12	6	21.89	21.09	PASS		
		12	13	21.80	21.03	PASS		
		25	0	21.84	21.10	PASS		
		1	0	22.72	21.55	PASS		
		1	12	23.10	21.83	PASS		
		1	24	21.69	21.07	PASS		
	HCH	12	0	21.92	20.99	PASS		
		12	6	21.91	20.99	PASS		
		12	13	21.90	20.75	PASS		
		25	0	21.87	21.00	PASS		

	Conducted Output Power Test Result (Channel Bandwidth: 10 MHz)								
Madulation	Channal	RB Con	figuration	Average Power [dBm]	Average Power [dBm]	\/andiat			
Modulation	Channel	Size	Offset	QPSK	16QAM	Verdict			
		1	0	22.91	22.52	PASS			
		1	24	23.11	22.71	PASS			
		1	49	22.50	21.86	PASS			
	LCH	25	0	21.86	20.90	PASS			
		25	12	21.89	21.10	PASS			
		25	25	21.92	20.99	PASS			
		50	0	21.80	20.93	PASS			
	мсн	1	0	22.01	21.49	PASS			
		1	24	23.73	23.22	PASS			
QPSK /		1	49	22.70	22.11	PASS			
16QAM		25	0	21.91	21.03	PASS			
TOQAIVI		25	12	22.03	21.16	PASS			
		25	25	21.93	20.87	PASS			
		50	0	21.89	20.99	PASS			
		1	0	20.64	19.96	PASS			
		1	24	22.75	22.06	PASS			
		1	49	21.46	20.72	PASS			
	HCH	25	0	21.56	20.64	PASS			
		25	12	22.54	21.63	PASS			
		25	25	21.91	20.92	PASS			
		50	0	21.83	20.89	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	23.03	22.62	PASS		
		1	37	23.37	22.67	PASS		
		1	74	21.72	21.15	PASS		
	LCH	37	0	22.11	21.04	PASS		
		37	18	22.13	21.12	PASS		
		37	38	22.18	21.18	PASS		
		75	0	22.14	21.26	PASS		
		1	0	21.56	20.94	PASS		
	МСН	1	37	23.64	23.01	PASS		
QPSK /		1	74	22.93	22.53	PASS		
16QAM		37	0	21.97	21.05	PASS		
IOQAW		37	18	22.08	21.14	PASS		
		37	38	21.96	20.94	PASS		
		75	0	21.97	21.19	PASS		
		1	0	21.53	20.83	PASS		
		1	37	22.00	21.38	PASS		
		1	74	22.00	21.32	PASS		
	HCH	37	0	21.36	20.41	PASS		
		37	18	21.92	21.02	PASS		
		37	38	21.96	21.24	PASS		
		75	0	21.78	20.91	PASS		

	Conducted Output Power Test Result (Channel Bandwidth: 20 MHz)								
Madulation	Channal	RB Configuratio		Average Power [dBm]	Average Power [dBm]	\/o.valiat			
Modulation	Channel	Size	Offset	QPSK	16QAM	Verdict			
		1	0	22.78	21.74	PASS			
		1	49	23.34	22.00	PASS			
		1	99	21.41	20.62	PASS			
	LCH	50	0	22.12	21.18	PASS			
		50	25	22.14	21.31	PASS			
		50	50	21.98	21.14	PASS			
		100	0	21.97	21.08	PASS			
		1	0	21.36	20.76	PASS			
	МСН	1	49	23.79	22.63	PASS			
QPSK /		1	99	22.71	21.46	PASS			
16QAM		50	0	22.09	21.15	PASS			
TOQAW		50	25	22.21	21.33	PASS			
		50	50	22.06	21.21	PASS			
		100	0	22.04	21.16	PASS			
		1	0	22.30	21.64	PASS			
		1	49	21.25	20.61	PASS			
		1	99	21.21	20.60	PASS			
	HCH	50	0	21.62	20.70	PASS			
		50	25	21.47	20.54	PASS			
		50	50	21.87	21.00	PASS			
		100	0	21.69	20.80	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			
Modulation	Chame	[dB]	[dB]	verdict			
	LCH	5.01	<13	PASS			
QPSK	MCH	5.2	<13	PASS			
	HCH	4.98	<13	PASS			
	LCH	5.76	<13	PASS			
16QAM	MCH	6.04	<13	PASS			
	HCH	5.78	<13	PASS			

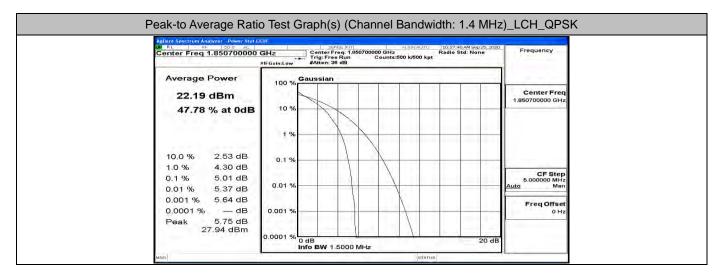
Peak-to Average Ratio Test Result (Channel Bandwidth: 3 MHz)							
Modulation	Channel	Peak-to-Average Ratio	Limit	Vordict			
Modulation	Channel	[dB]	[dB]	Verdict			
	LCH	5.11	<13	PASS			
QPSK	MCH	5.25	<13	PASS			
	HCH	5.15	<13	PASS			
16QAM	LCH	5.91	<13	PASS			
	MCH	6	<13	PASS			
	HCH	5.99	<13	PASS			

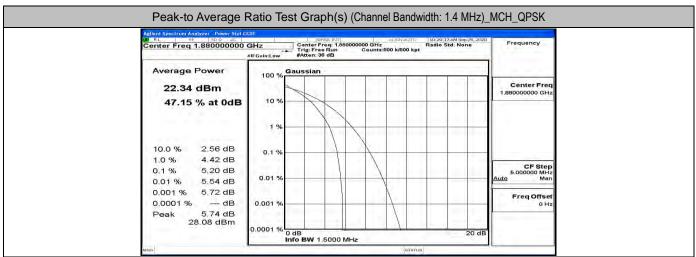
Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)							
Modulation	Channel	Peak-to-Average Ratio	Limit	Vordict			
Modulation	Griannei	[dB]	[dB]	Verdict			
	LCH	5.1	<13	PASS			
QPSK	MCH	5.23	<13	PASS			
	HCH	5.05	<13	PASS			
	LCH	5.82	<13	PASS			
16QAM	MCH	6.04	<13	PASS			
	HCH	7.76	<13	PASS			

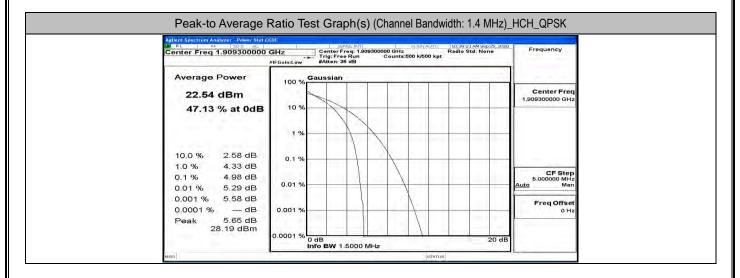
Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)						
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict		
Modulation	Griannei	[dB]	[dB]	verdict		
	LCH	5.11	<13	PASS		
QPSK	MCH	5.19	<13	PASS		
	HCH	5.07	<13	PASS		
	LCH	5.89	<13	PASS		
16QAM	MCH	5.96	<13	PASS		
	HCH	5.94	<13	PASS		

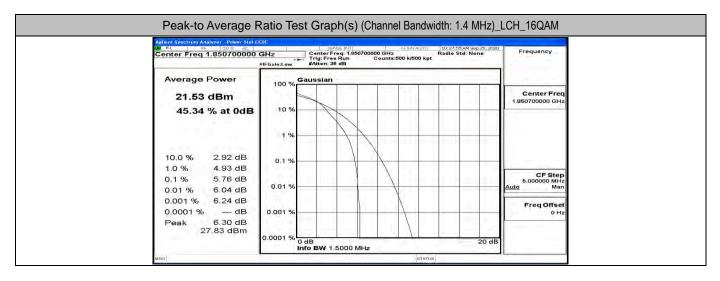
Peak-to Average Ratio Test Result (Channel Bandwidth: 15 MHz)							
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict			
Modulation	Chame	[dB]	[dB]	verdict			
	LCH	4.9	<13	PASS			
QPSK	MCH	4.88	<13	PASS			
	HCH	5.39	<13	PASS			
	LCH	6.14	<13	PASS			
16QAM	MCH	6.16	<13	PASS			
	HCH	6.56	<13	PASS			

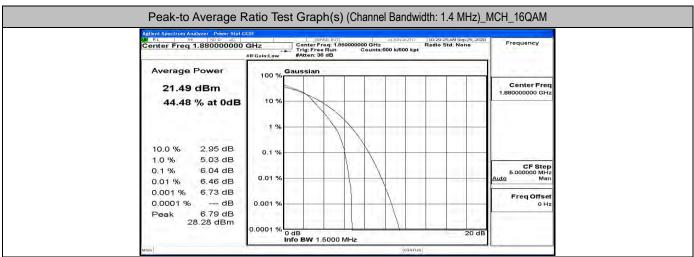
Peak-to Average Ratio Test Result (Channel Bandwidth: 20 MHz)				
Maralista di an	Channel	Peak-to-Average Ratio	Limit	Verdict
Modulation		[dB]	[dB]	
QPSK	LCH	5.68	<13	PASS
	MCH	5.86	<13	PASS
	HCH	5.64	<13	PASS
16QAM	LCH	6.73	<13	PASS
	MCH	6.67	<13	PASS
	HCH	6.55	<13	PASS

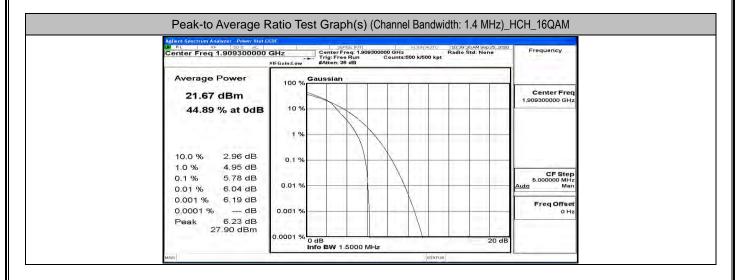


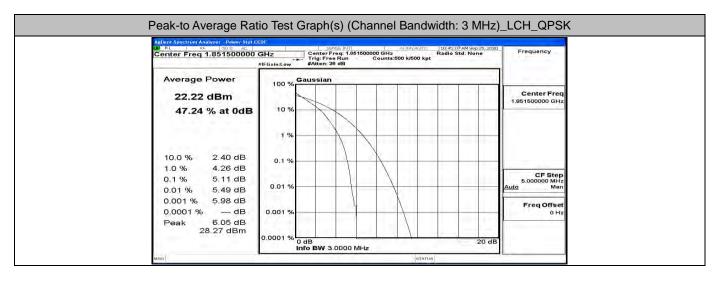


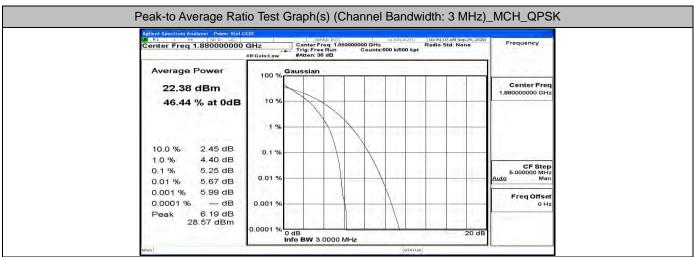


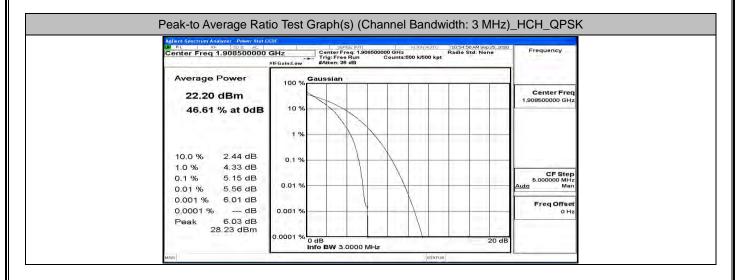


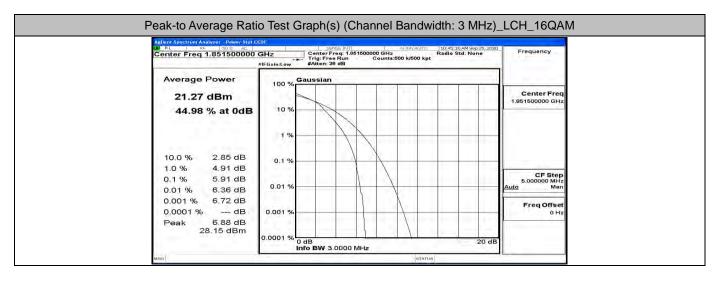


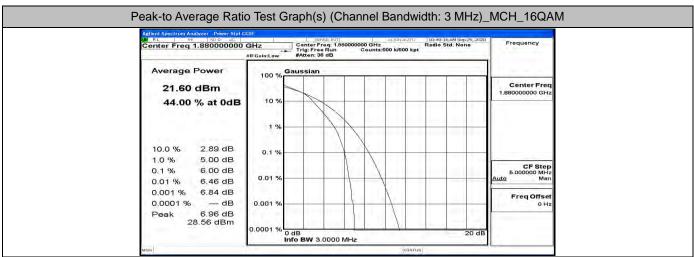


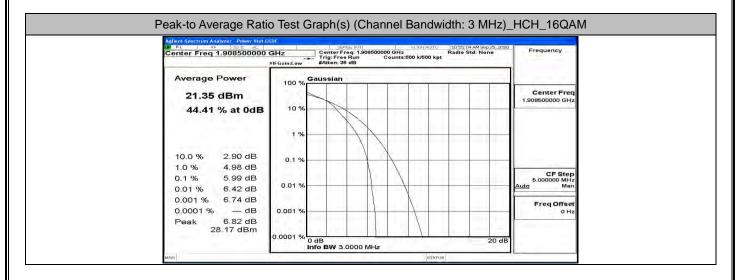


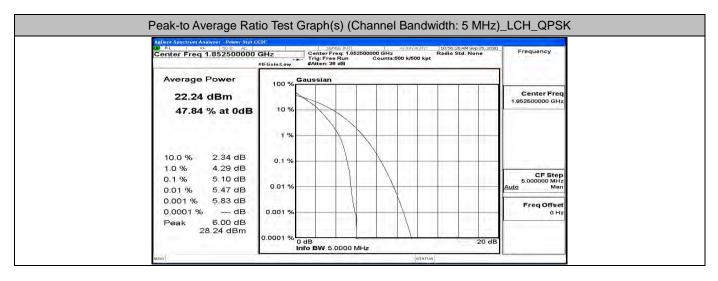


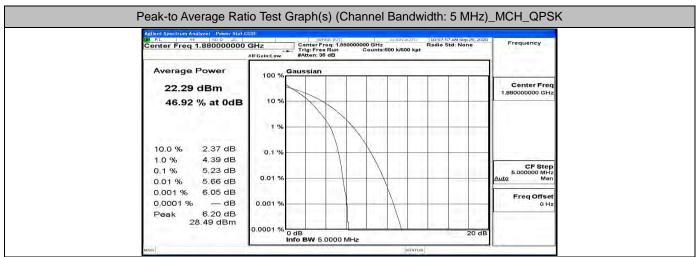


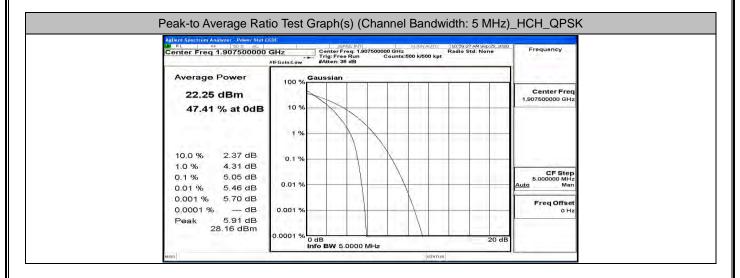


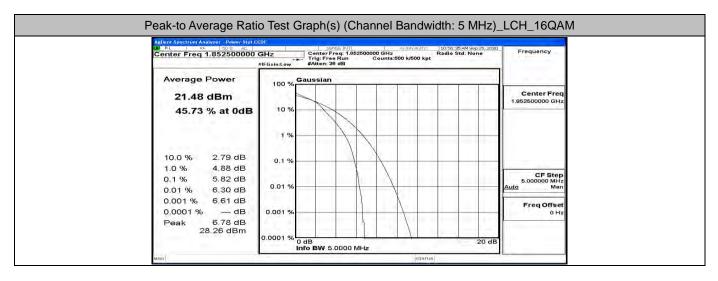


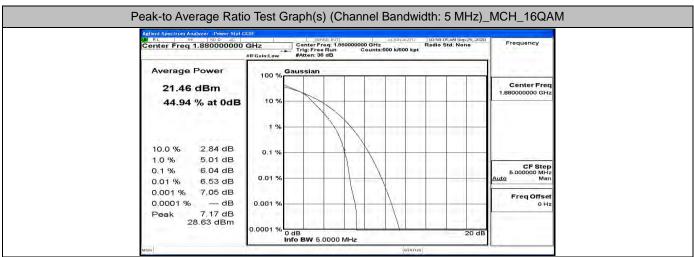


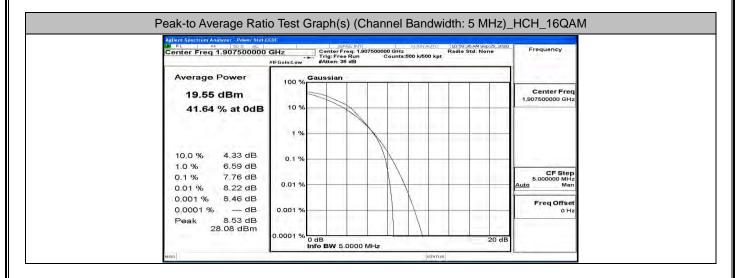




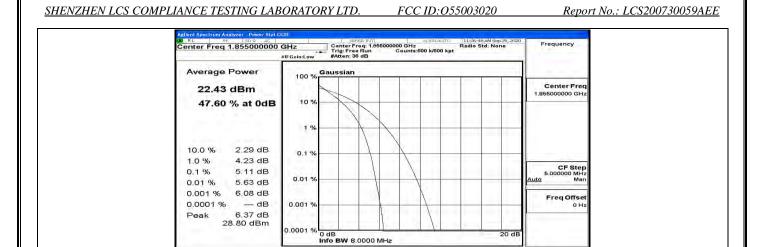


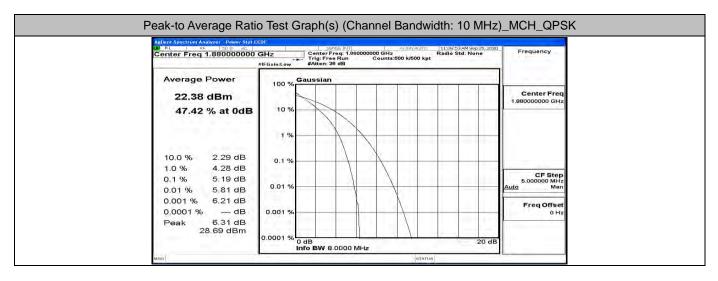


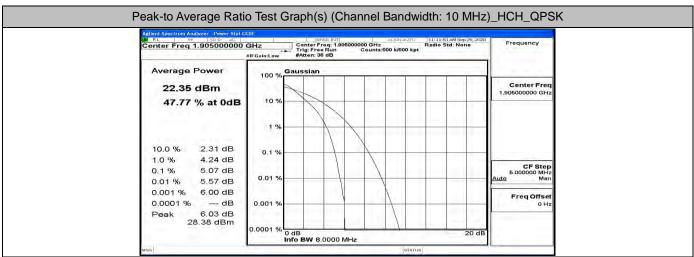


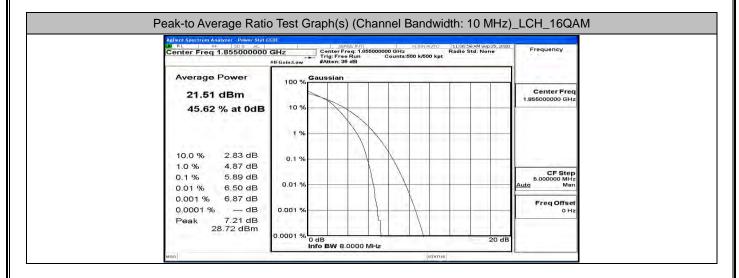


Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK

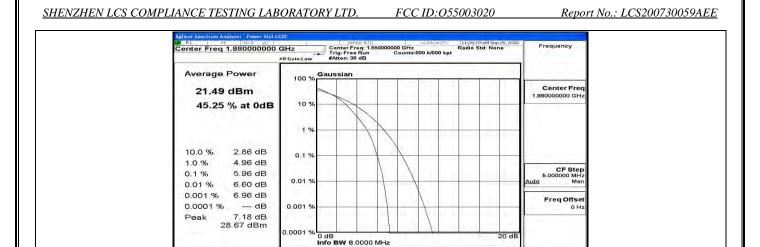


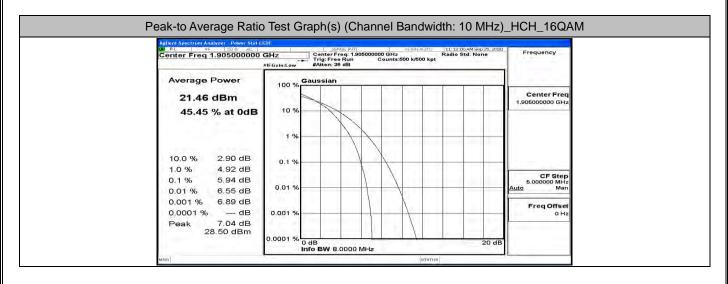


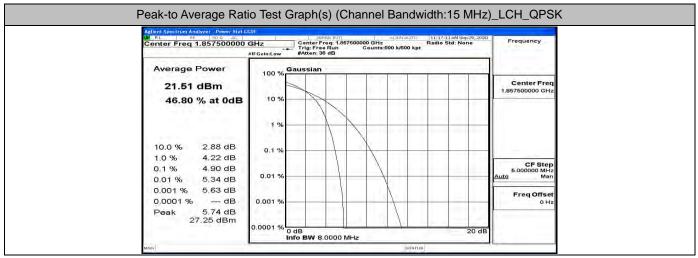


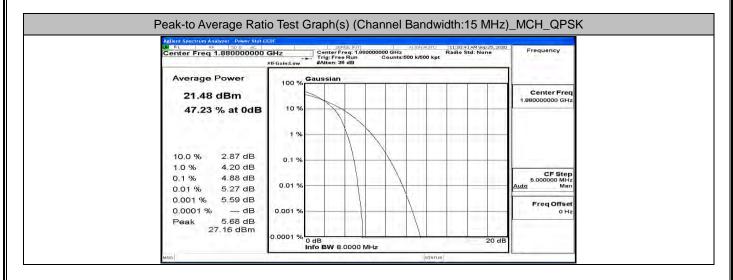


Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_16QAM

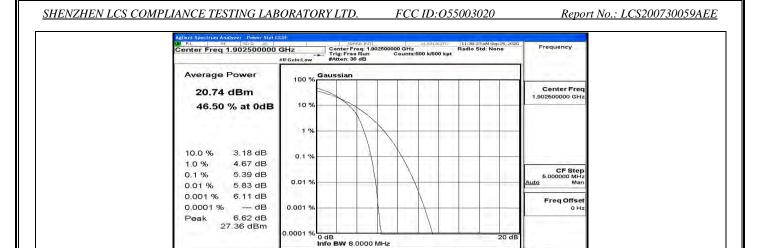


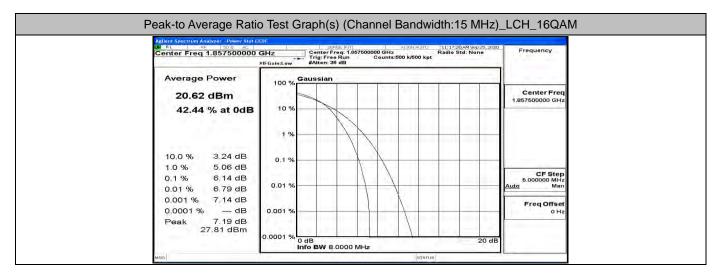


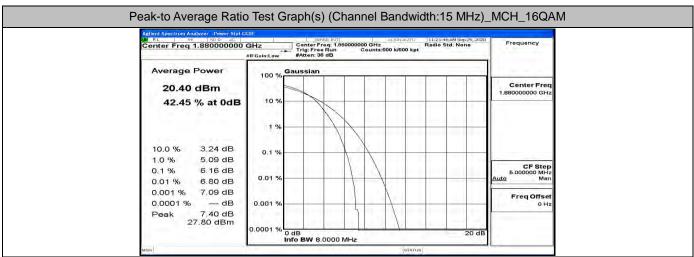


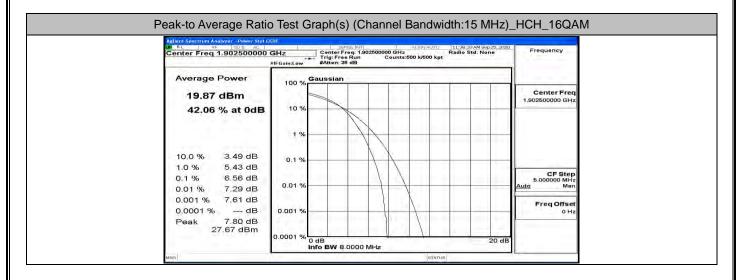


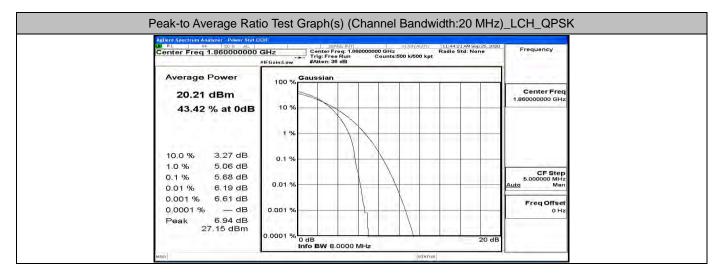
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_QPSK

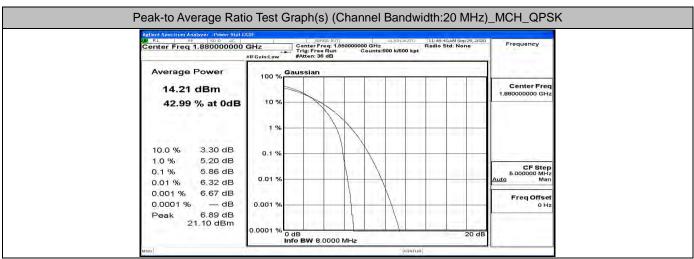


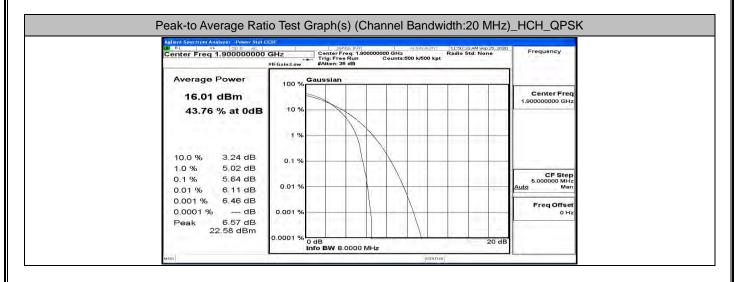


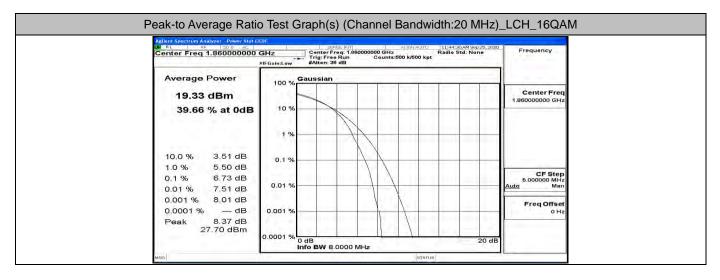


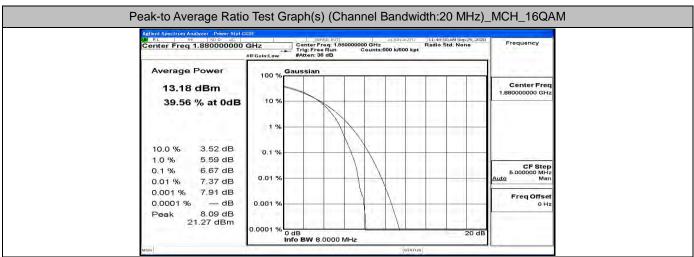


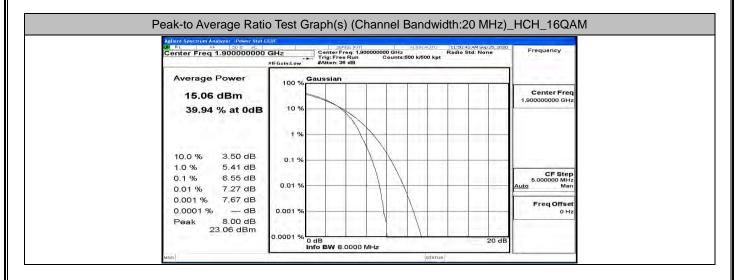












B.3 26dB Bandwidth and Occupied Bandwidth

EBW & OBW Test Result (Channel Bandwidth: 1.4 MHz)				
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict
Woddiation		(MHz)	(MHz)	
QPSK	LCH	1.0744	1.220	PASS
	MCH	1.0761	1.222	PASS
	HCH	1.0775	1.221	PASS
16QAM	LCH	1.0771	1.225	PASS
	MCH	1.0771	1.235	PASS
	HCH	1.0758	1.219	PASS

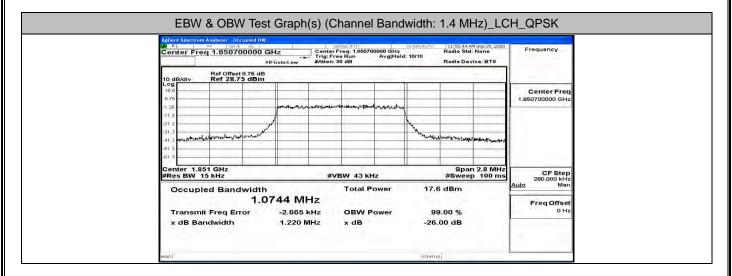
EBW & OBW Test Result (Channel Bandwidth: 3 MHz)				
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict
Modulation		(MHz)	(MHz)	
	LCH	2.6748	2.822	PASS
QPSK	MCH	2.6817	2.837	PASS
	HCH	2.6803	2.833	PASS
16QAM	LCH	2.6836	2.829	PASS
	MCH	2.6856	2.822	PASS
	HCH	2.6772	2.810	PASS

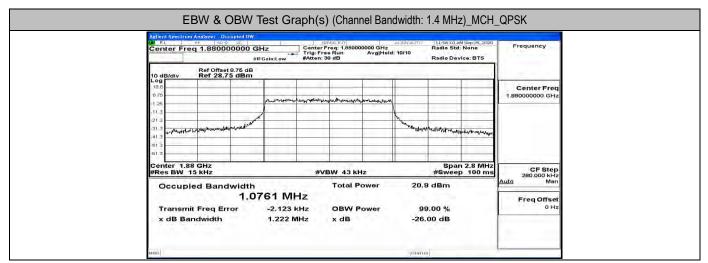
EBW & OBW Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict
Modulation		(MHz)	(MHz)	
QPSK	LCH	4.4766	4.843	PASS
	MCH	4.4706	4.818	PASS
	HCH	4.4777	4.893	PASS
16QAM	LCH	4.4787	4.809	PASS
	MCH	4.4769	4.778	PASS
	HCH	4.4729	4.805	PASS

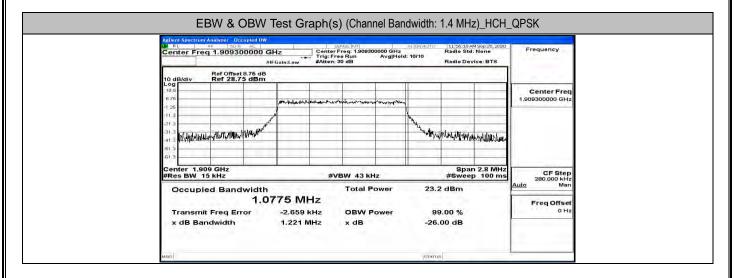
EBW & OBW Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict
		(MHz)	(MHz)	
QPSK	LCH	8.9622	9.573	PASS
	MCH	8.9441	9.496	PASS
	HCH	8.9311	9.479	PASS
16QAM	LCH	8.9567	9.535	PASS
	MCH	8.9496	9.503	PASS
	HCH	8.9269	9.516	PASS

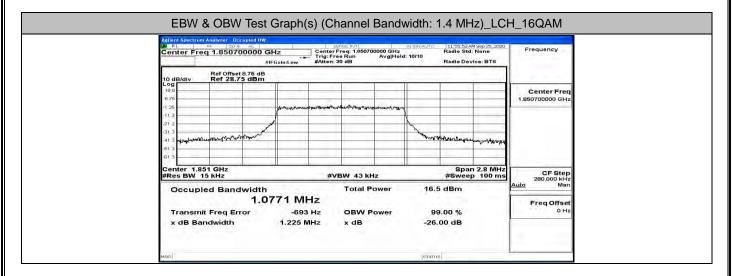
EBW & OBW Test Result (Channel Bandwidth: 15 MHz)				
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict
Modulation		(MHz)	(MHz)	
QPSK	LCH	13.434	14.03	PASS
	MCH	13.425	14.16	PASS
	HCH	13.360	13.98	PASS
16QAM	LCH	13.418	14.19	PASS
	MCH	13.406	14.05	PASS
	HCH	13.358	14.11	PASS

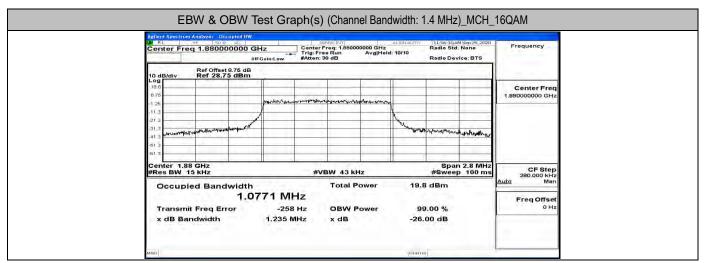
EBW & OBW Test Result (Channel Bandwidth: 20 MHz)				
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict
		(MHz)	(MHz)	
QPSK	LCH	17.877	18.58	PASS
	MCH	17.869	18.69	PASS
	HCH	17.786	18.59	PASS
16QAM	LCH	17.877	18.65	PASS
	MCH	17.866	18.60	PASS
	HCH	17.776	18.54	PASS

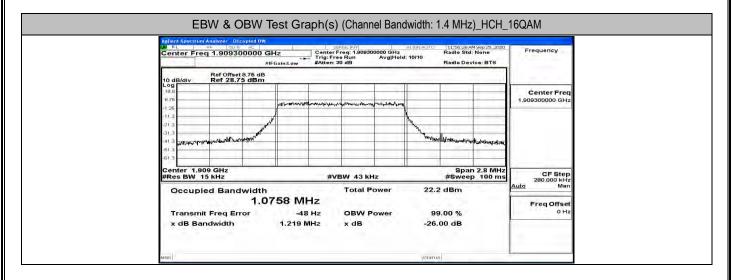


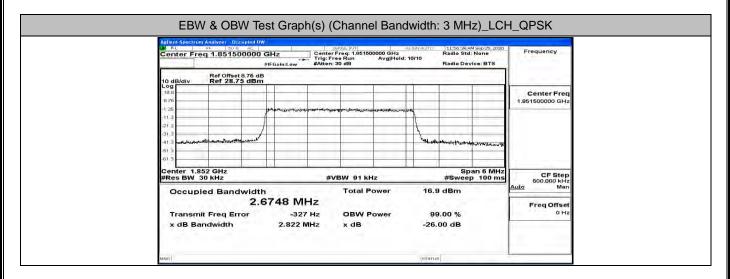


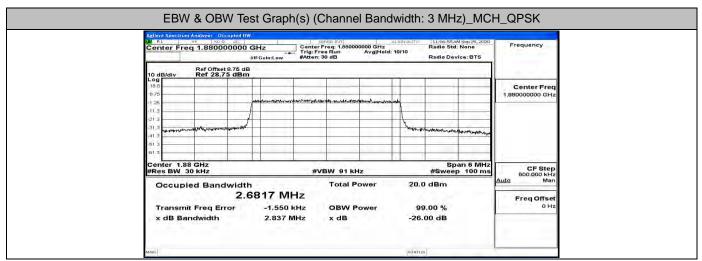


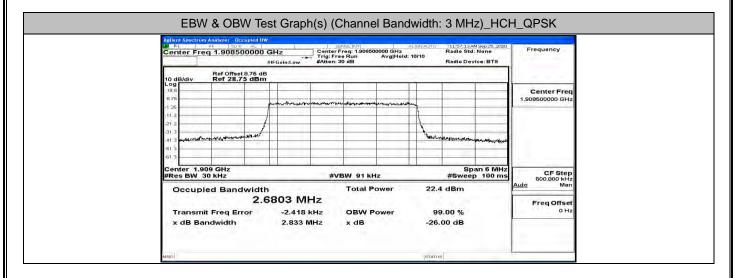


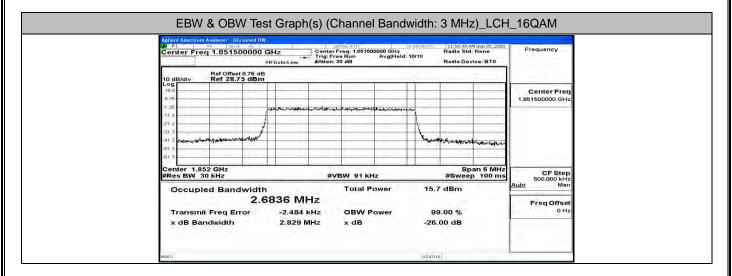


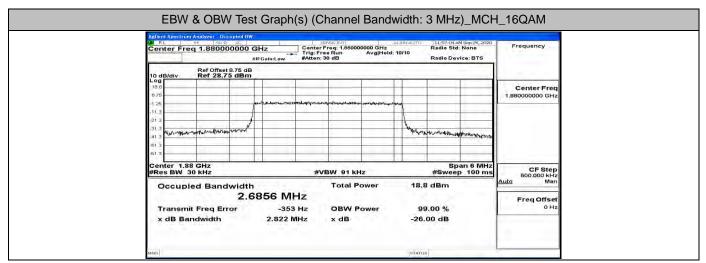


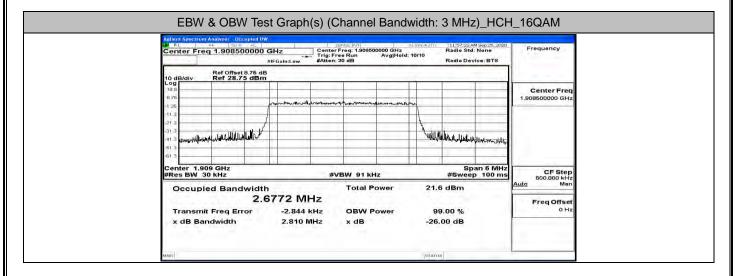


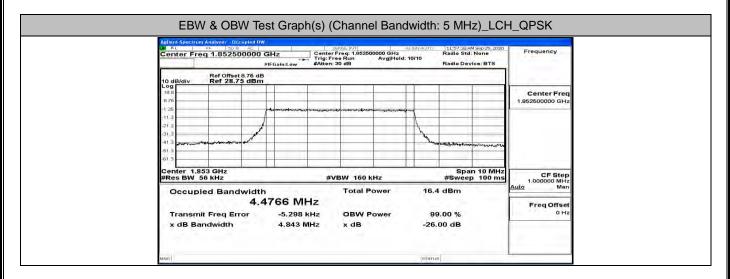


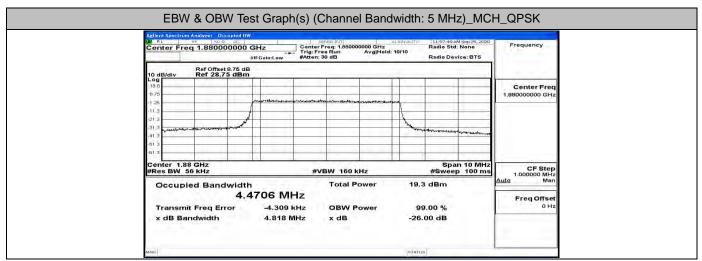


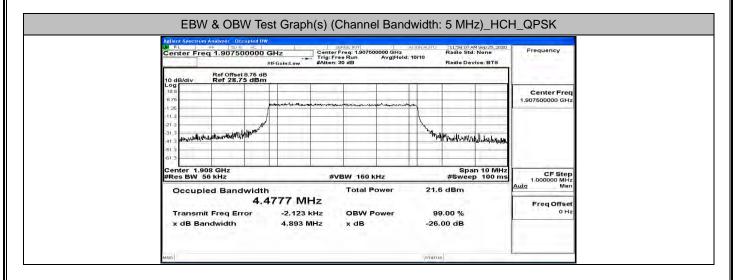


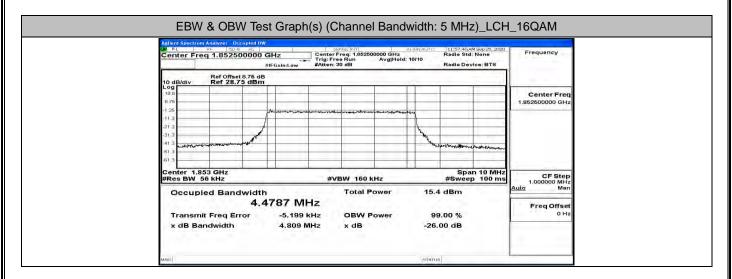


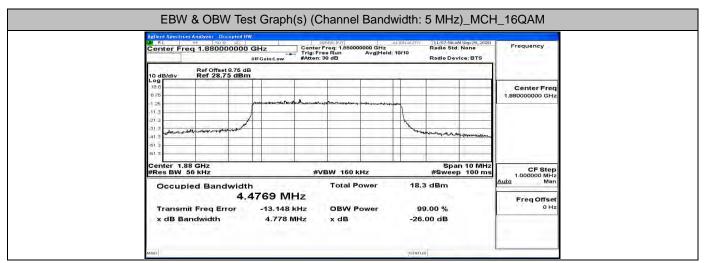


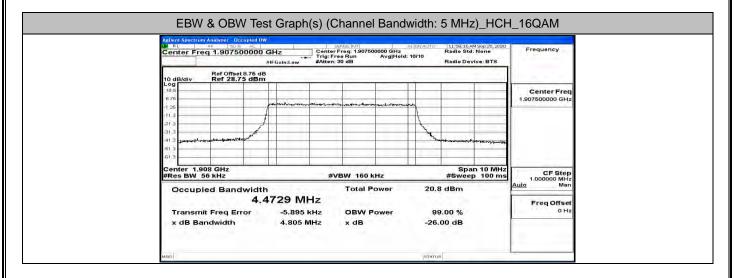


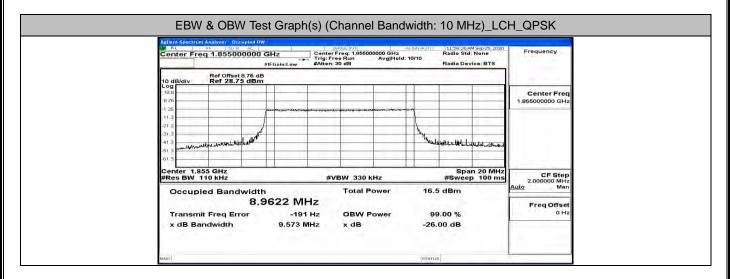


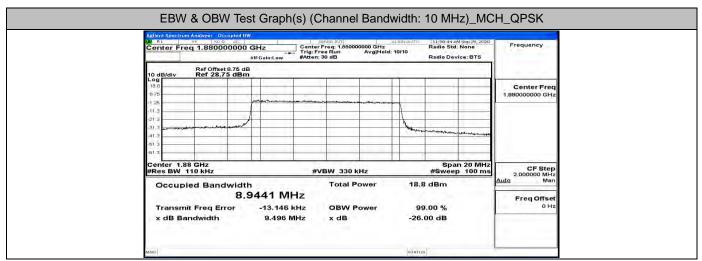


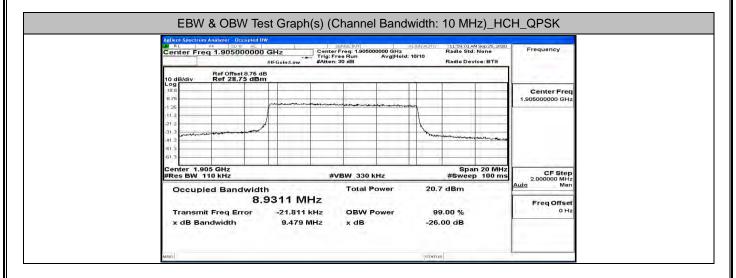


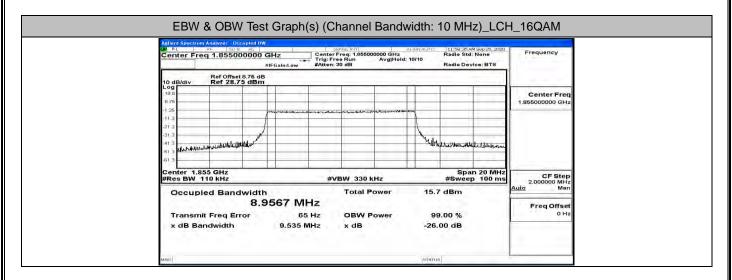


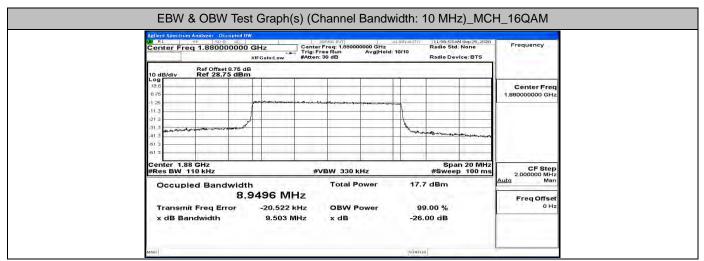


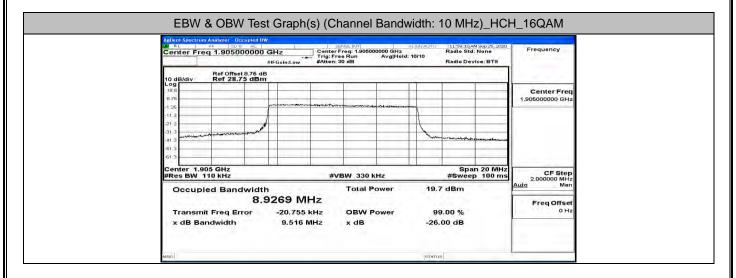


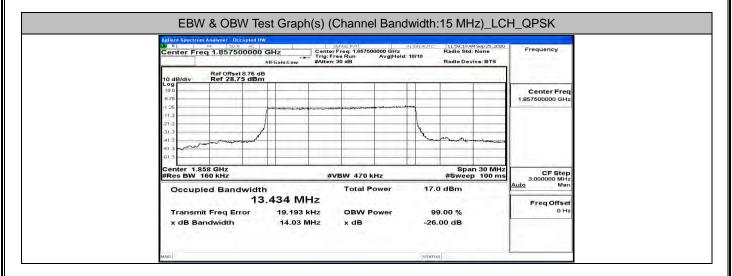


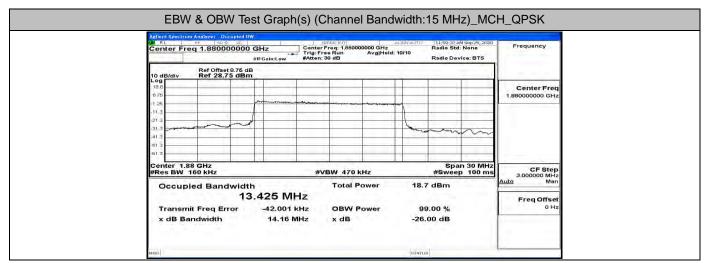


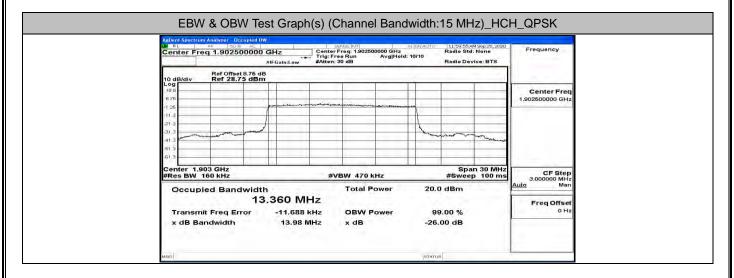


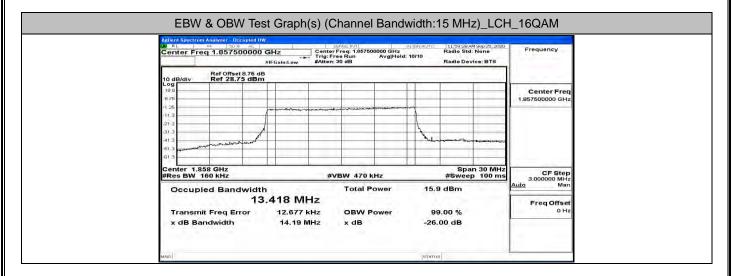


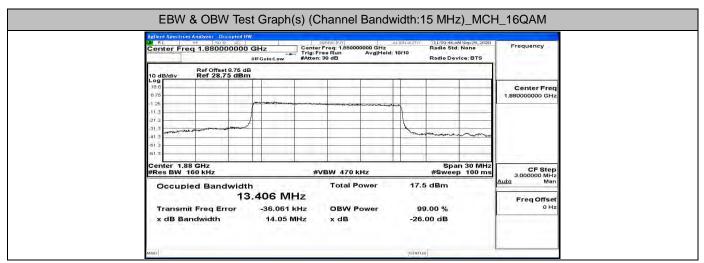


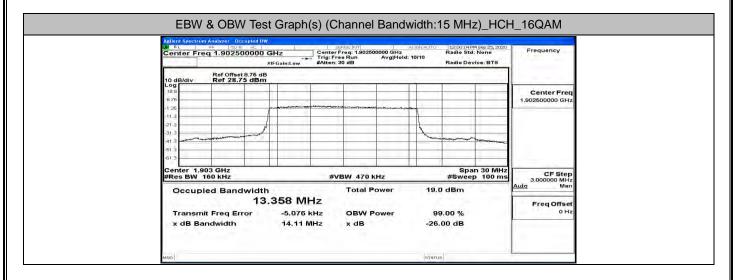


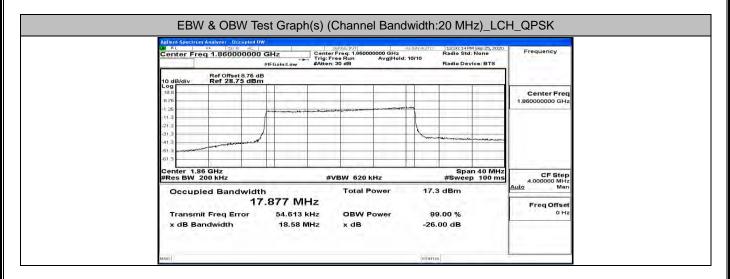


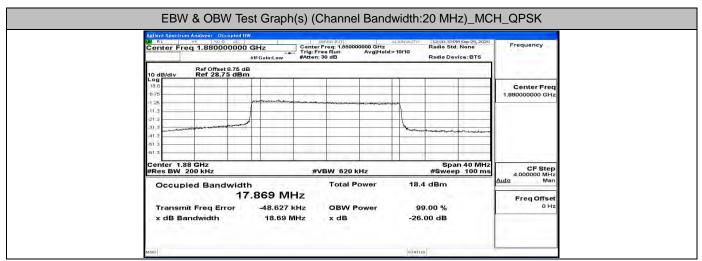


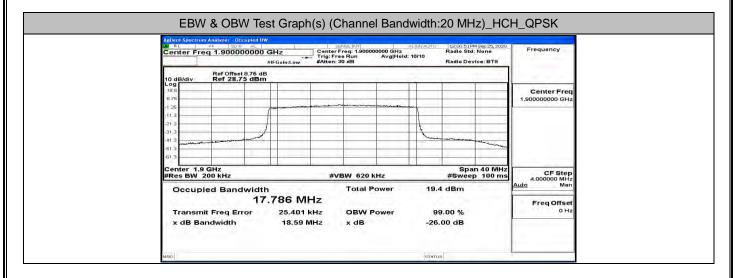


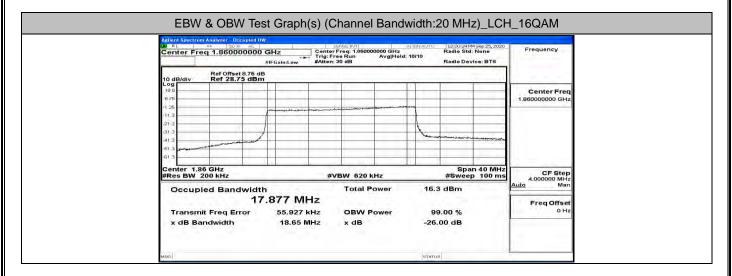


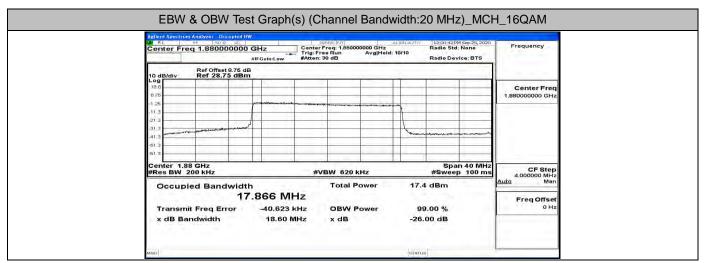


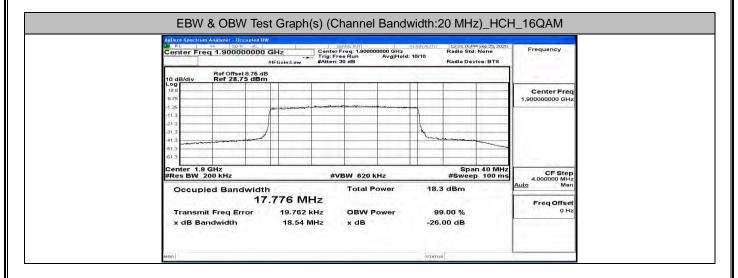




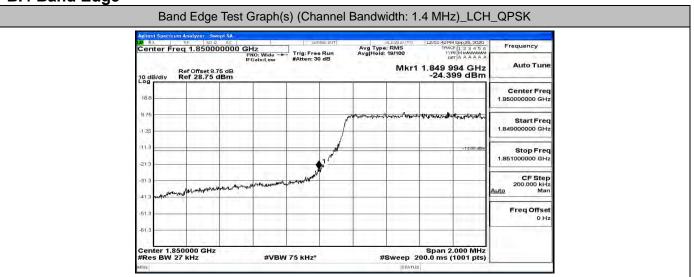


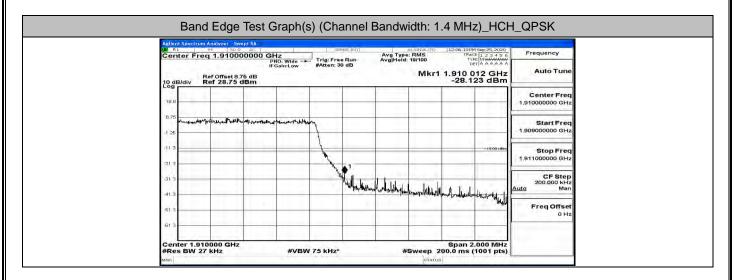


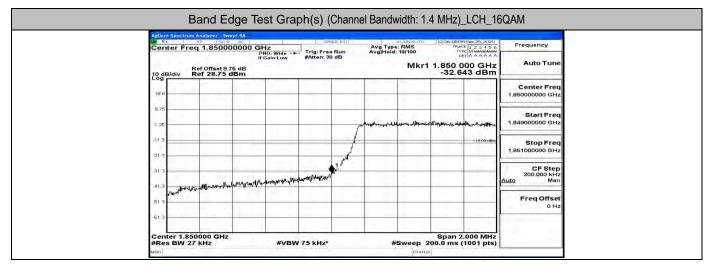


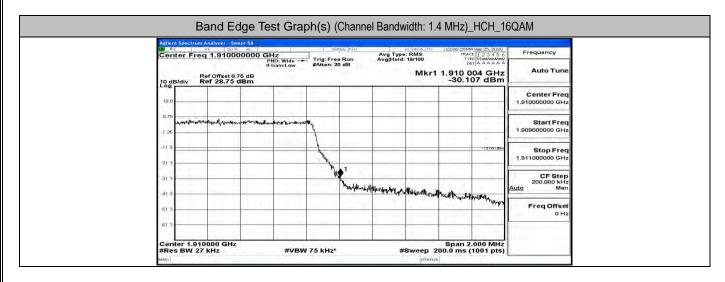


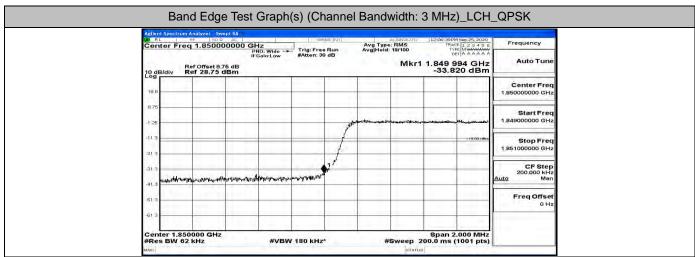
B.4 Band Edge

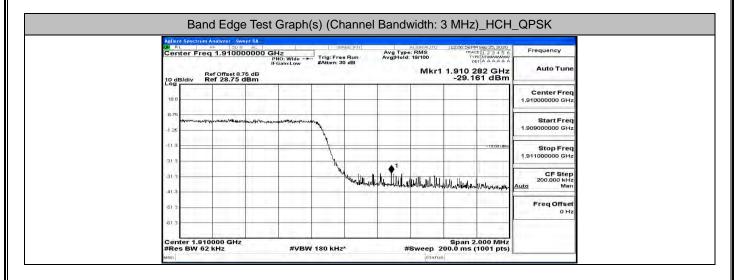


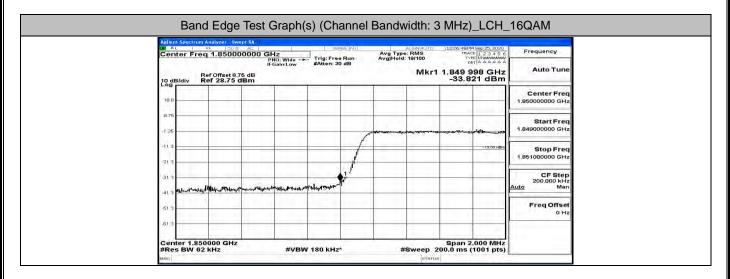


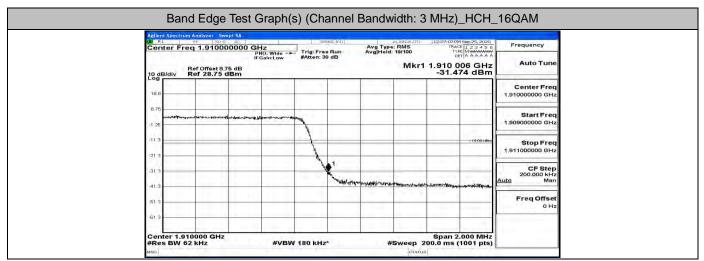


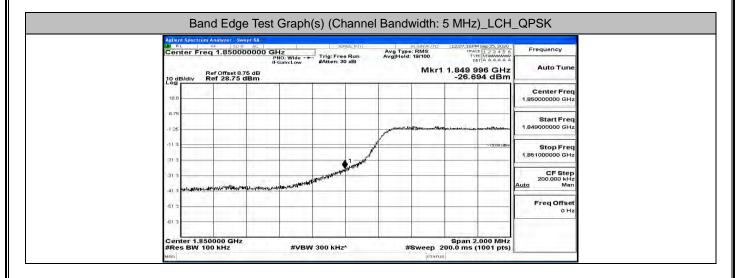


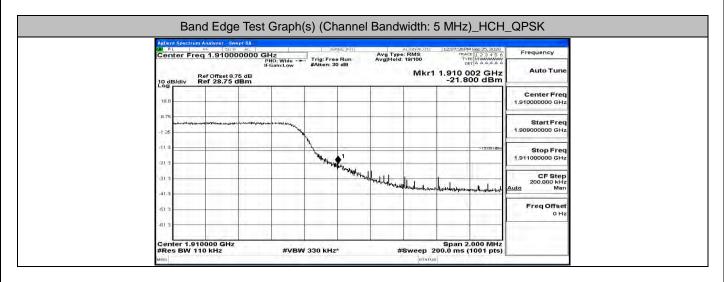


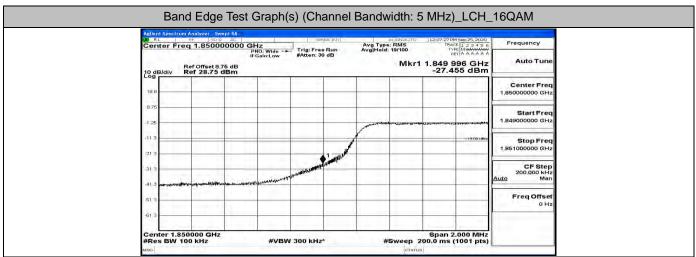


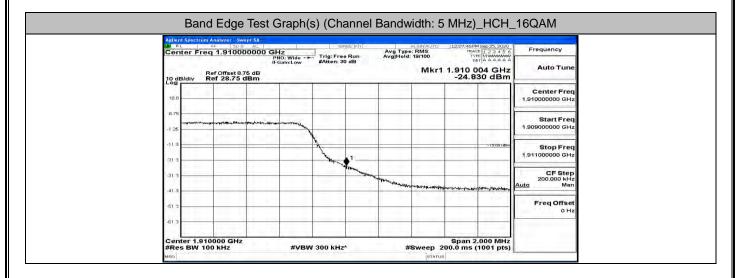




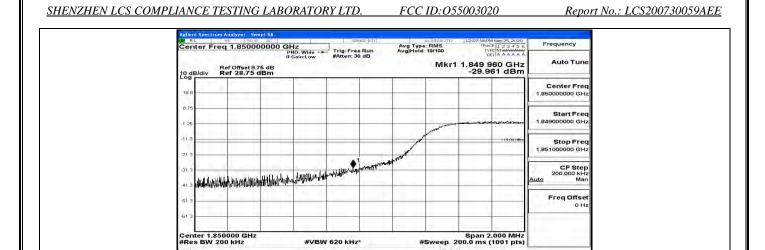


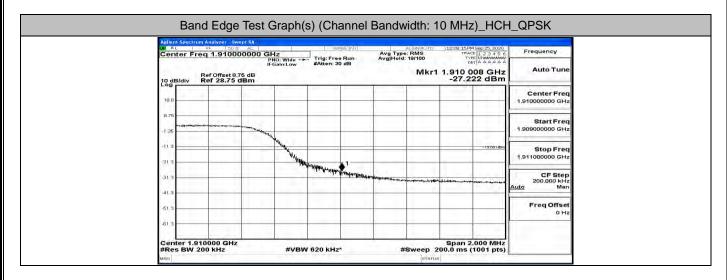


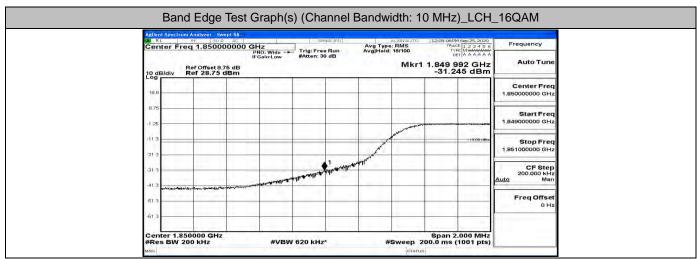


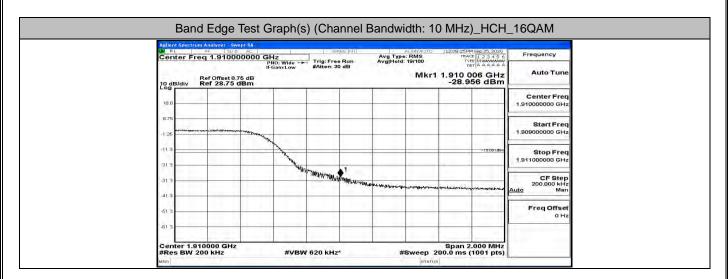


Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK

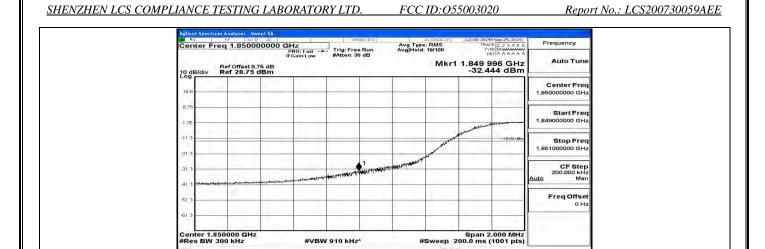


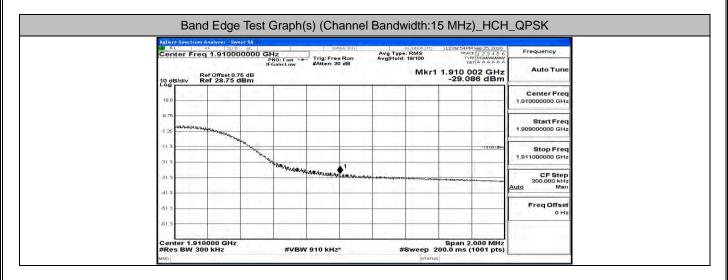


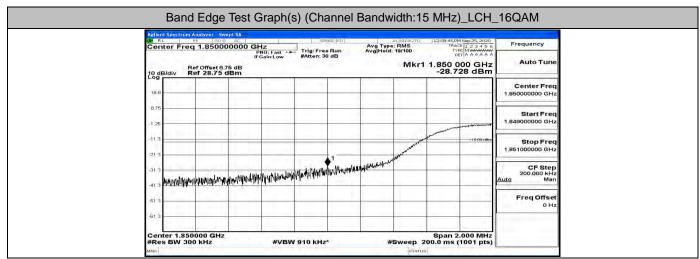


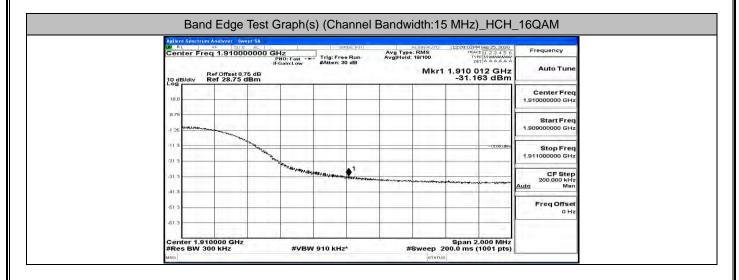


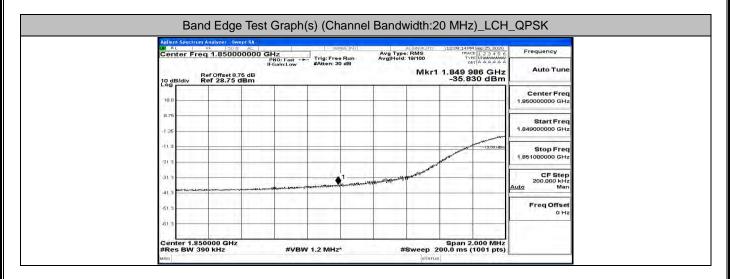
Band Edge Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_QPSK

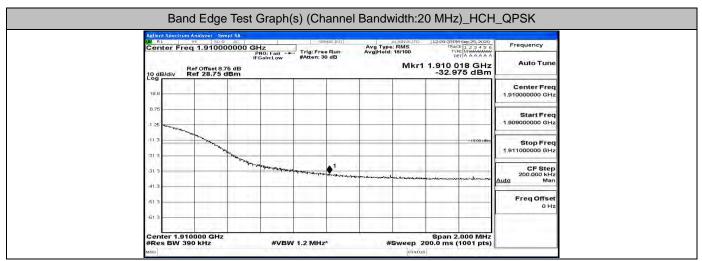


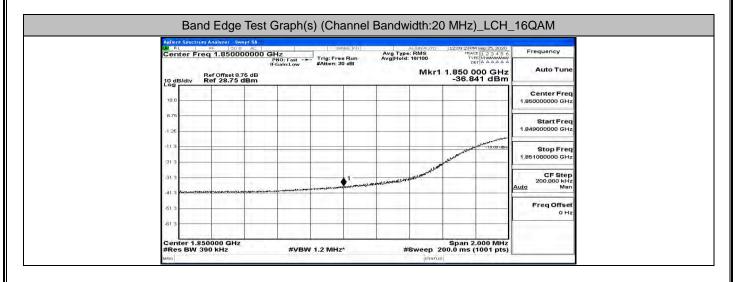


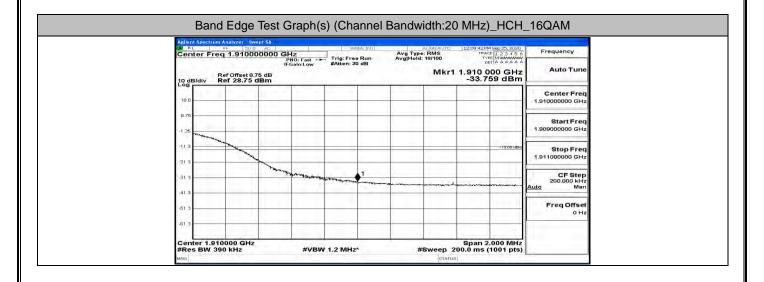






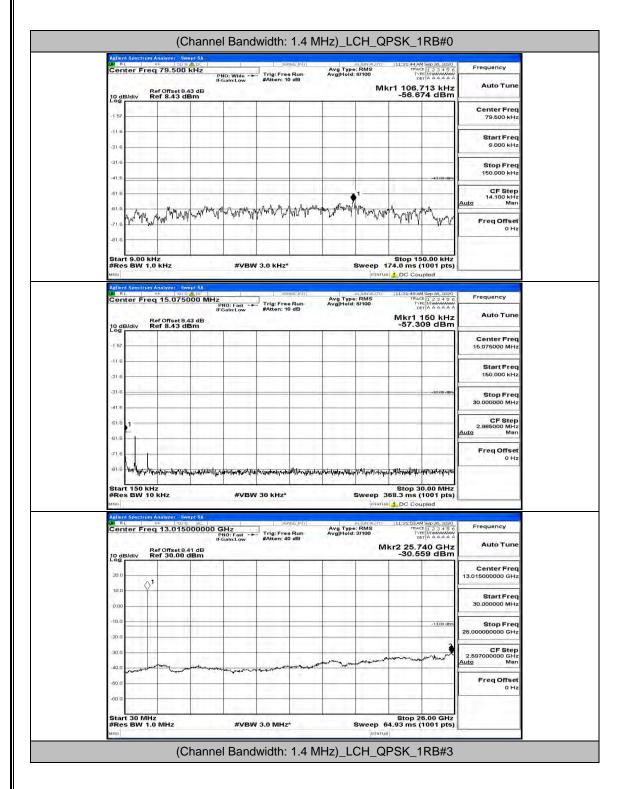


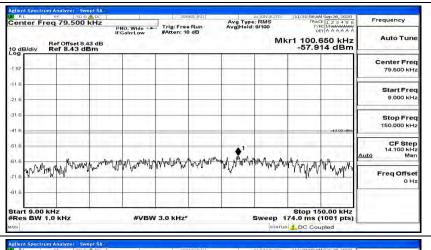


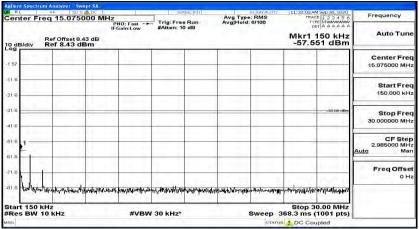


B.5 Conducted Spurious Emission

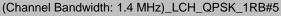
Channel Bandwidth: 1.4 MHz

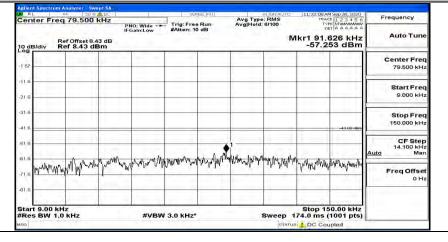


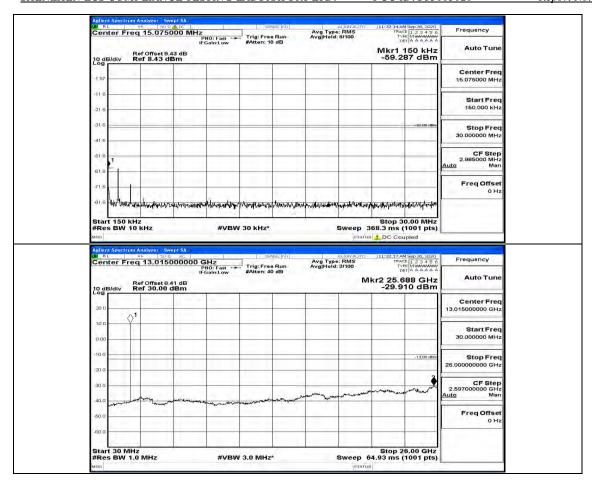


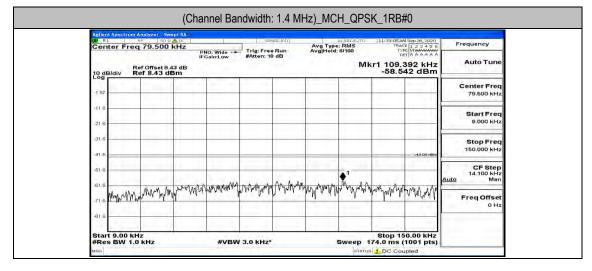


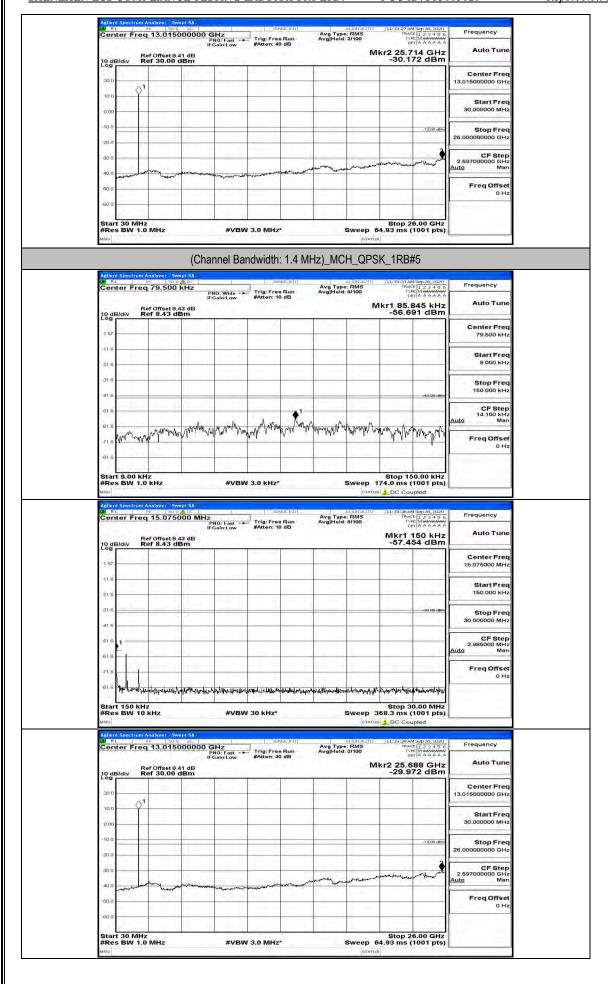


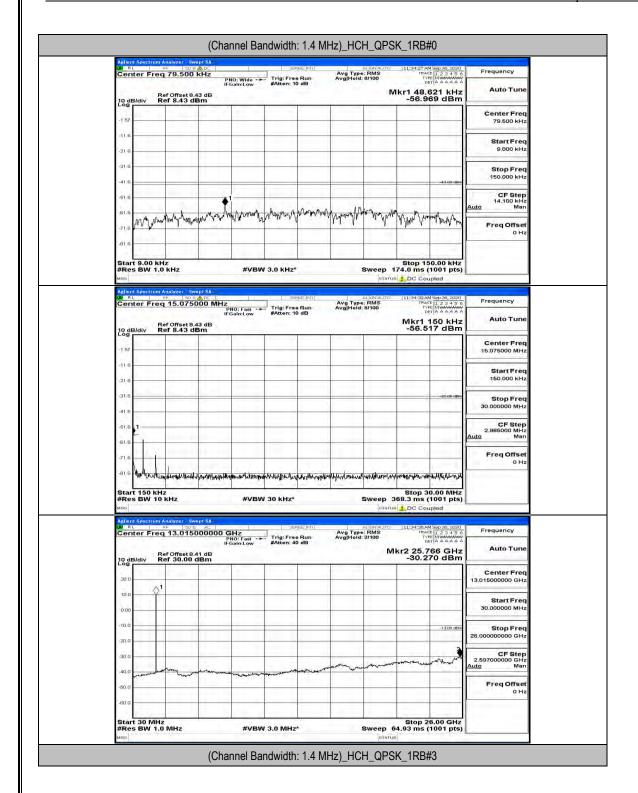


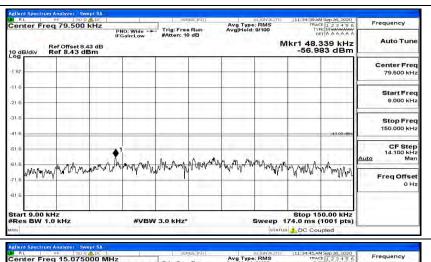


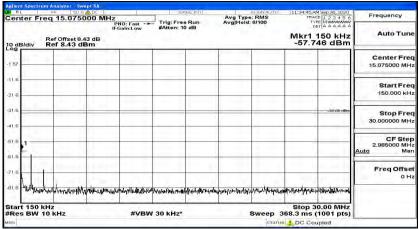




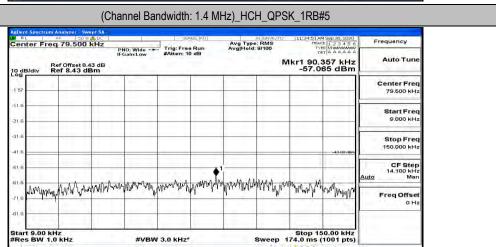


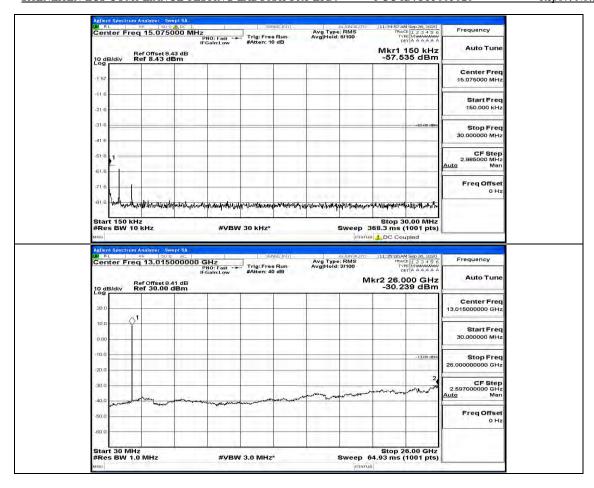


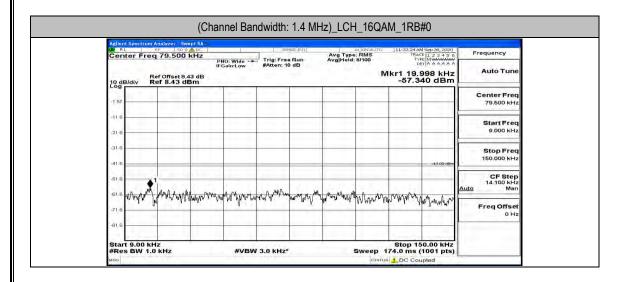










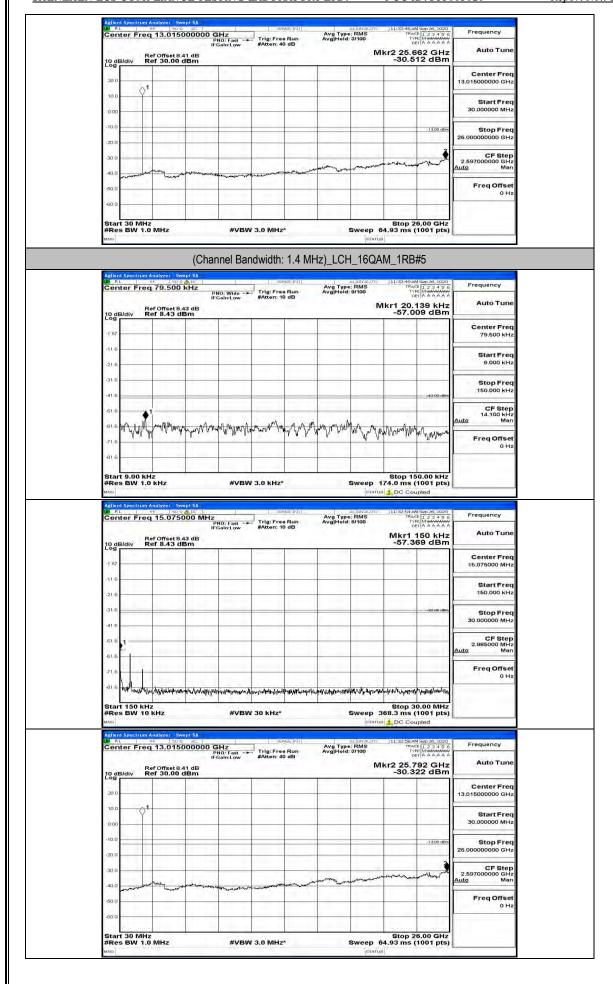


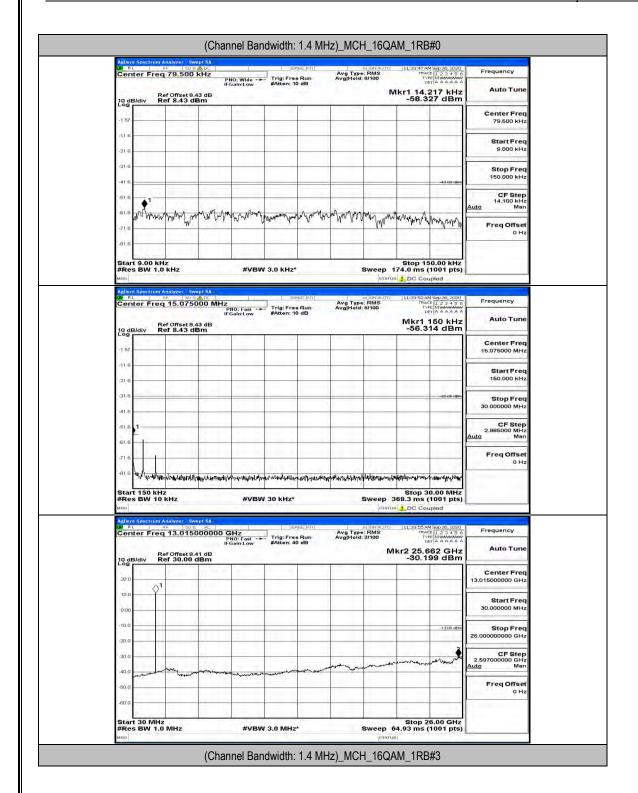
Stop 30.00 MHz Sweep 368.3 ms (1001 pts)

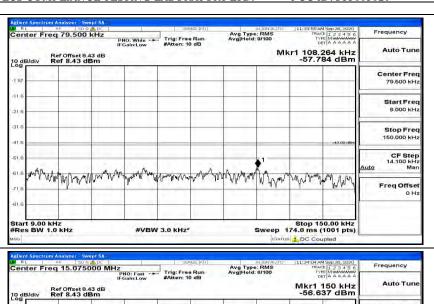
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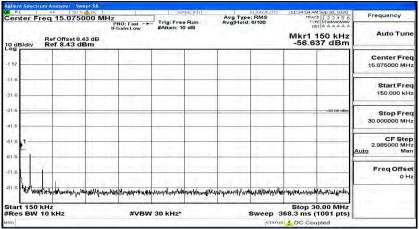
#VBW 30 kHz*

Start 150 kHz #Res BW 10 kHz Freq Offse

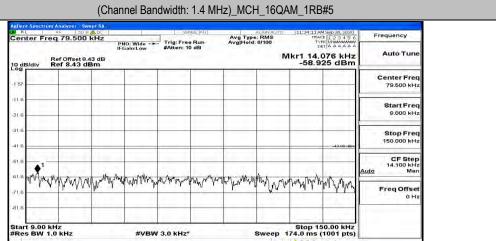


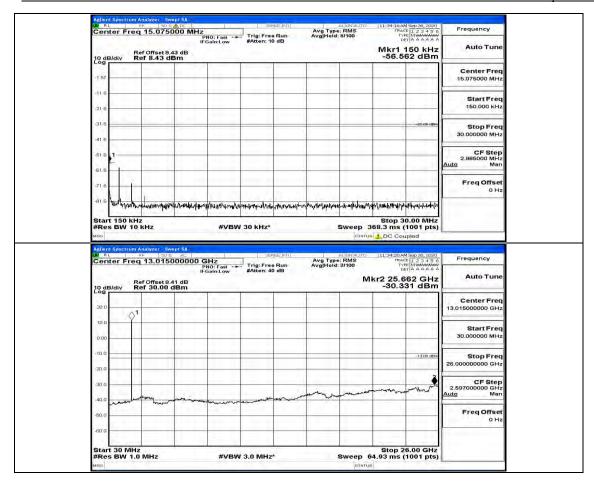


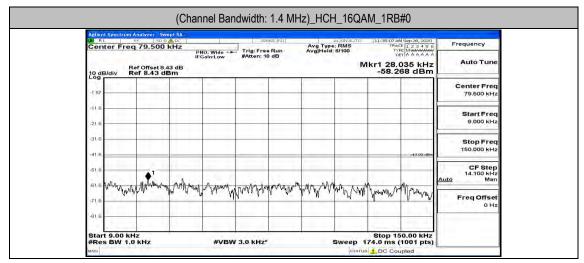


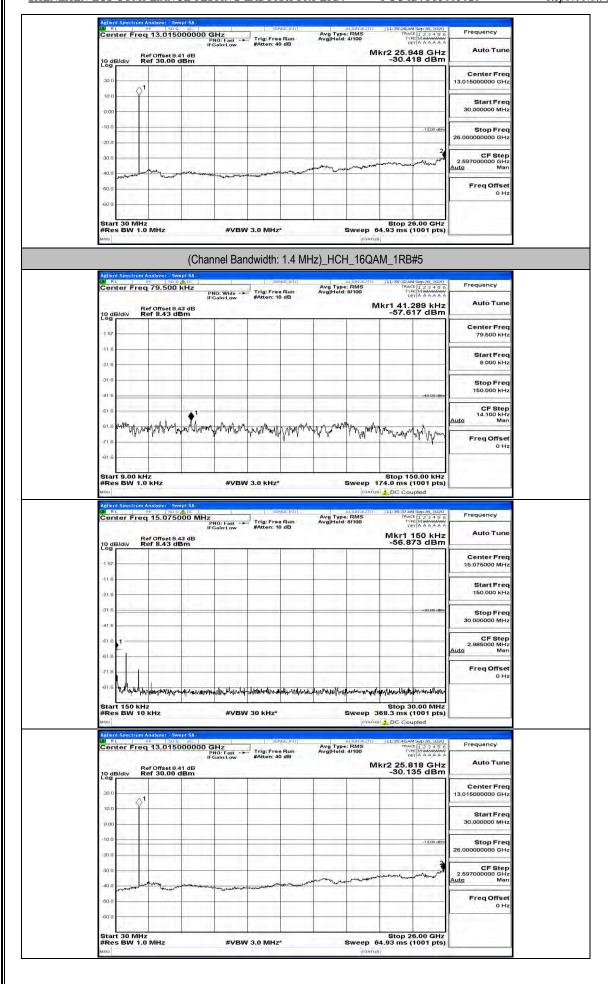




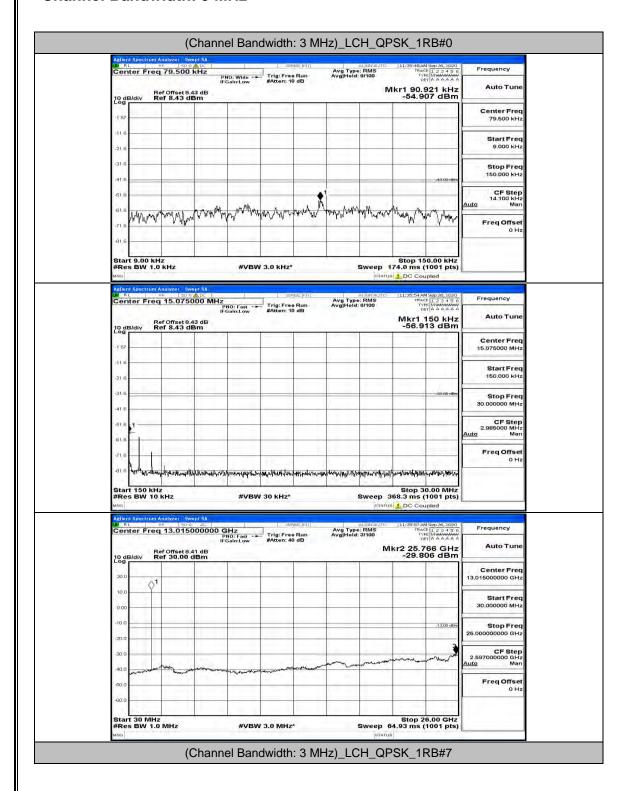


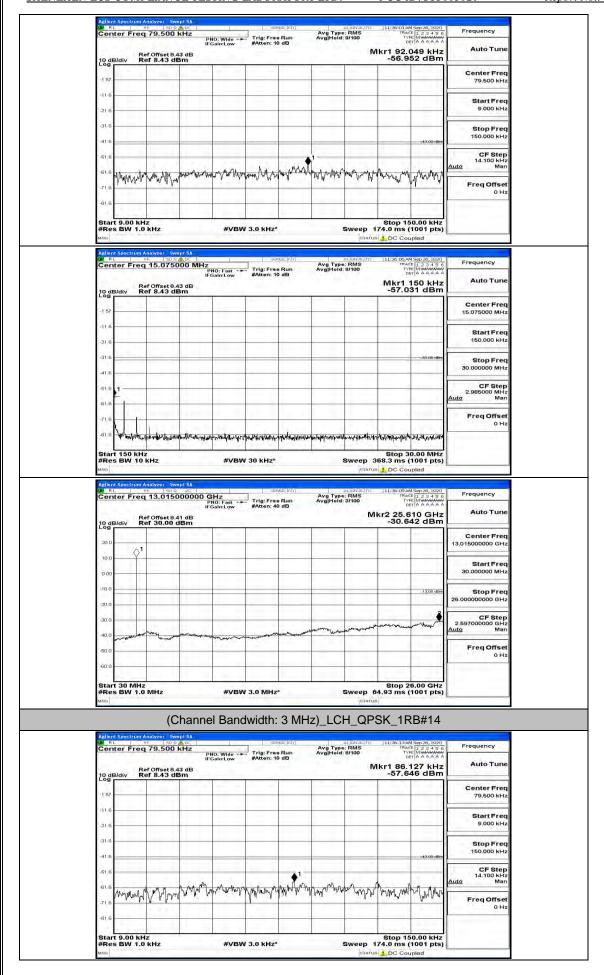


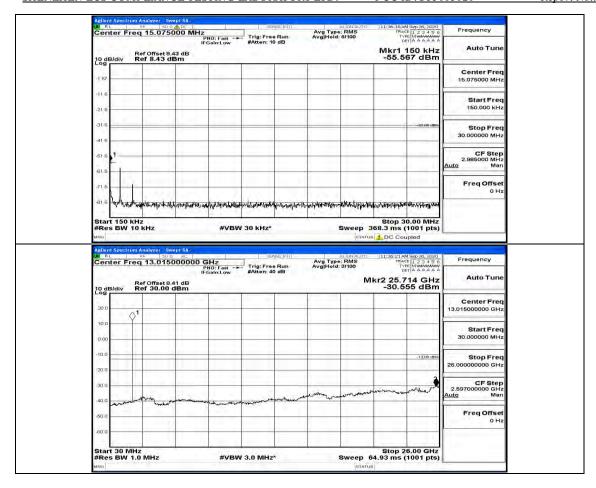


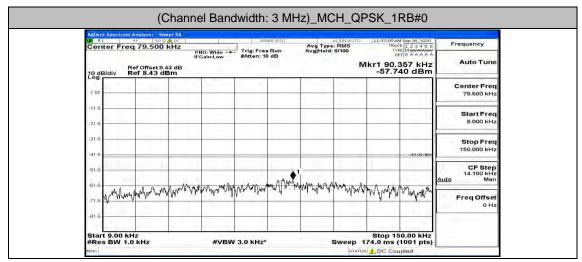


Channel Bandwidth: 3 MHz









FCC ID: O55003020

Report No.: LCS200730059AEE

SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD.

Stop 26.00 GHz Sweep 64.93 ms (1001 pts)

Start 30 MHz #Res BW 1.0 MHz

#VBW 3.0 MHz*

Stop Free

Freq Offset 0 Hz

