Appendix I: Test Data for E-UTRA Band 5

Product Name: Smart Phone Trade Mark: HYUNDAI Test Model: Eternity P7

Environmental Conditions

Temperature:	22.5°C
Relative Humidity:	51.8%
ATM Pressure:	100.0 kPa
Test Engineer:	Diamond Lu
Supervised by:	Tom.Liu

I.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]	\/a.uali.a.t
Modulation	Channel	Size	Offset	QPSK	16QAM	Verdict
		1	0	23.14	22.28	PASS
		1	3	23.20	22.38	PASS
		1	5	23.03	22.21	PASS
	LCH	3	0	23.13	22.21	PASS
		3	2	23.18	22.17	PASS
		3	3	23.11	22.13	PASS
		6	0	22.20	21.14	PASS
	МСН	1	0	21.60	20.97	PASS
		1	3	21.72	21.10	PASS
QPSK /		1	5	21.58	20.91	PASS
16QAM		3	0	21.64	20.59	PASS
TOQAM		3	2	21.63	20.61	PASS
		3	3	21.60	20.58	PASS
		6	0	20.65	19.59	PASS
		1	0	22.34	21.54	PASS
		1	3	22.65	21.72	PASS
		1	5	22.46	21.69	PASS
	HCH	3	0	22.41	21.43	PASS
		3	2	22.51	21.50	PASS
		3	3	22.51	21.52	PASS
		6	0	21.51	20.58	PASS

Conducted Output Power Test Result (Channel Bandwidth: 3 MHz)						
Madulation	Channal	RB Configuration		Average Power [dBm]	Average Power [dBm]	\/a.u.di.a.t
Modulation	Channel	Size	Offset	QPSK	16QAM	Verdict
		1	0	23.14	22.39	PASS
		1	7	23.25	22.45	PASS
		1	14	22.84	22.08	PASS
	LCH	8	0	22.13	21.16	PASS
		8	4	22.06	21.12	PASS
		8	7	21.94	21.01	PASS
		15	0	21.98	20.96	PASS
	МСН	1	0	21.68	20.94	PASS
		1	7	21.80	21.15	PASS
QPSK /		1	14	21.58	20.81	PASS
16QAM		8	0	20.68	19.71	PASS
TOQAIVI		8	4	20.65	19.75	PASS
		8	7	20.62	19.65	PASS
		15	0	20.60	19.57	PASS
		1	0	22.20	21.48	PASS
		1	7	22.60	21.91	PASS
		1	14	22.53	21.87	PASS
	HCH	8	0	21.34	20.30	PASS
		8	4	21.46	20.40	PASS
		8	7	21.43	20.40	PASS
		15	0	21.32	20.28	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	23.06	22.36	PASS
		1	12	23.06	22.41	PASS
		1	24	22.47	21.71	PASS
	LCH	12	0	22.00	21.08	PASS
		12	6	21.94	21.04	PASS
		12	13	21.76	20.84	PASS
		25	0	21.83	20.86	PASS
	МСН	1	0	21.70	21.04	PASS
		1	12	21.90	21.19	PASS
QPSK /		1	24	21.46	20.79	PASS
16QAM		12	0	20.72	19.81	PASS
TOQAW		12	6	20.67	19.78	PASS
		12	13	20.64	19.67	PASS
		25	0	20.69	19.71	PASS
		1	0	21.91	20.87	PASS
		1	12	22.54	21.60	PASS
		1	24	22.44	21.45	PASS
	HCH	12	0	21.11	20.04	PASS
		12	6	21.24	20.23	PASS
		12	13	21.32	20.30	PASS
		25	0	21.18	20.19	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	23.11	22.37	PASS
		1	24	22.64	21.87	PASS
		1	49	21.86	21.12	PASS
	LCH	25	0	21.79	20.80	PASS
		25	12	21.54	20.58	PASS
		25	25	21.19	20.19	PASS
		50	0	21.48	20.48	PASS
	мсн	1	0	22.01	21.26	PASS
		1	24	21.83	21.11	PASS
QPSK /		1	49	21.57	20.83	PASS
16QAM		25	0	20.89	19.87	PASS
IOQAW		25	12	20.69	19.68	PASS
		25	25	20.78	19.75	PASS
		50	0	20.78	19.74	PASS
		1	0	21.69	21.05	PASS
		1	24	22.09	21.43	PASS
		1	49	22.47	21.88	PASS
	HCH	25	0	20.85	19.84	PASS
		25	12	21.01	19.96	PASS
		25	25	21.14	20.12	PASS
		50	0	20.98	19.95	PASS

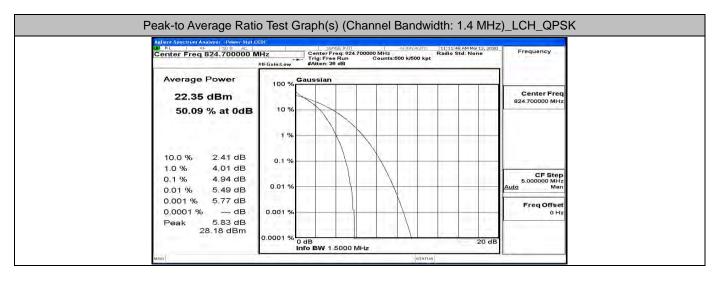
I.2 Peak-to-Average Ratio

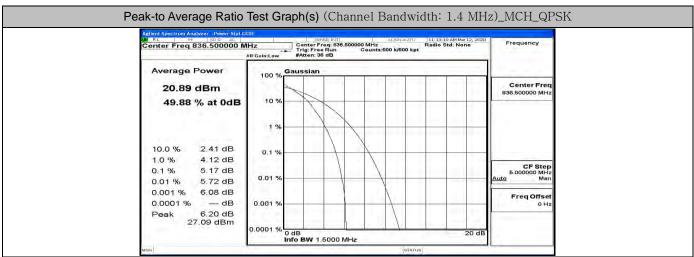
Peak-to Average Ratio Test Result (Channel Bandwidth: 1.4 MHz)						
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict		
Modulation	Griannei	[dB]	[dB]	verdict		
	LCH	4.94	<13	PASS		
QPSK	MCH	5.17	<13	PASS		
	HCH	5.01	<13	PASS		
16QAM	LCH	5.81	<13	PASS		
	MCH	6.04	<13	PASS		
	HCH	5.92	<13	PASS		

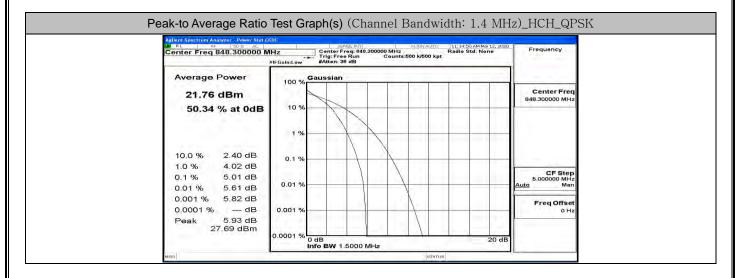
Peak-to Average Ratio Test Result (Channel Bandwidth: 3 MHz)						
Modulation	Channel	Peak-to-Average Ratio	Limit	Vordict		
Modulation	Cnannei	[dB]	[dB]	Verdict		
	LCH	5.05	<13	PASS		
QPSK	MCH	5.29	<13	PASS		
	HCH	5.24	<13	PASS		
16QAM	LCH	5.91	<13	PASS		
	MCH	6.14	<13	PASS		
	HCH	5.98	<13	PASS		

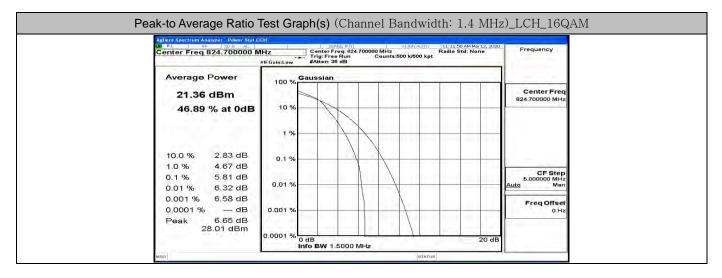
Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)					
Modulation	Channel	Peak-to-Average Ratio	Limit	Vordict	
iviodulation	Griannei	[dB]	[dB]	Verdict	
	LCH	5	<13	PASS	
QPSK	MCH	5.31	<13	PASS	
	HCH	5.15	<13	PASS	
16QAM	LCH	5.74	<13	PASS	
	MCH	6.09	<13	PASS	
	HCH	5.88	<13	PASS	

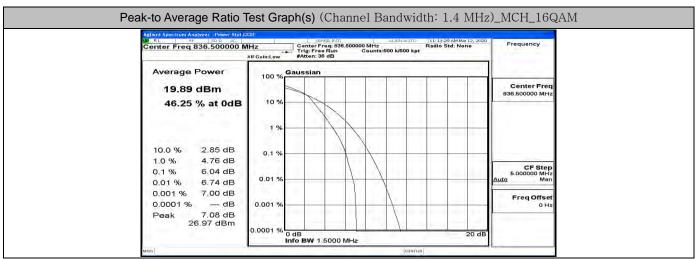
Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)					
Modulation	Channel	Peak-to-Average Ratio	Limit	Vardiet	
Modulation	Griannei	[dB]	[dB]	Verdict	
	LCH	5.15	<13	PASS	
QPSK	MCH	5.37	<13	PASS	
	HCH	5.28	<13	PASS	
	LCH	5.85	<13	PASS	
16QAM	MCH	6.02	<13	PASS	
	HCH	5.94	<13	PASS	

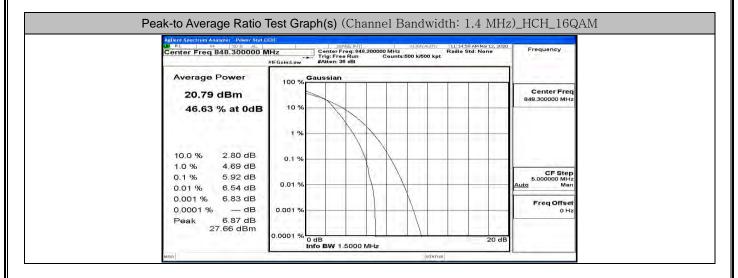


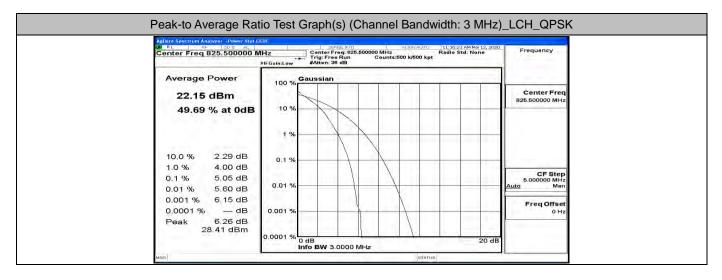


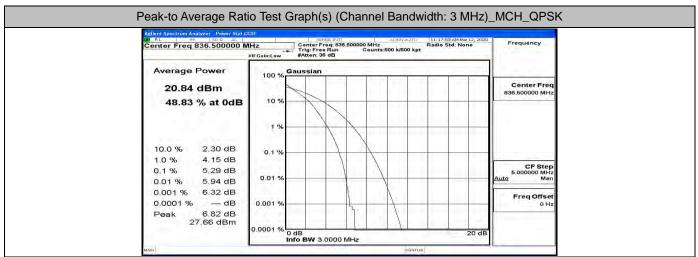


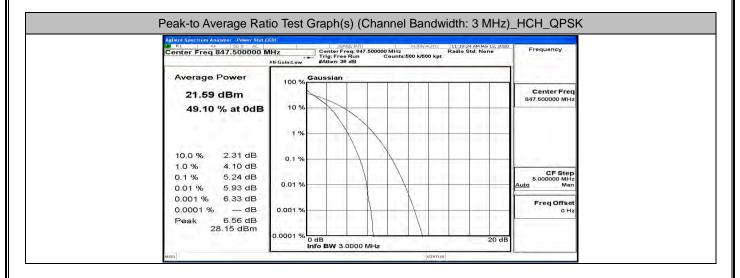


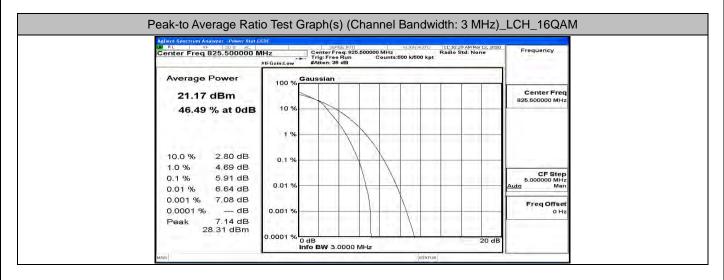


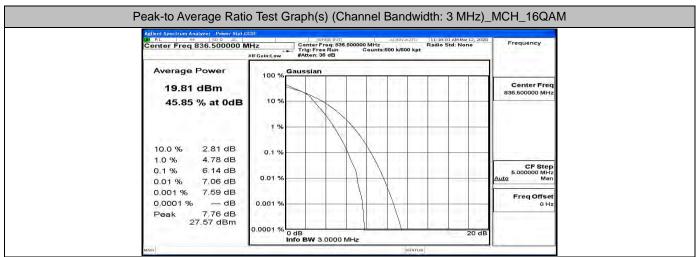


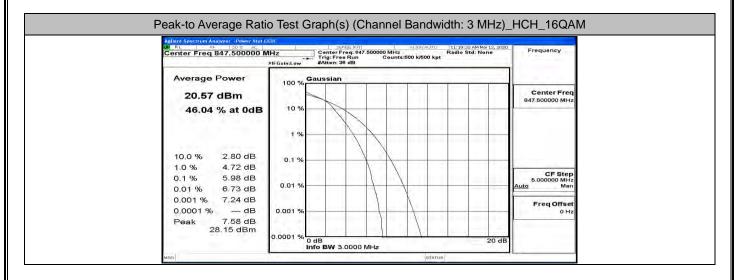


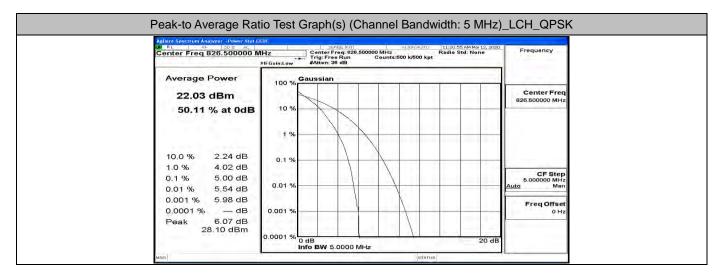


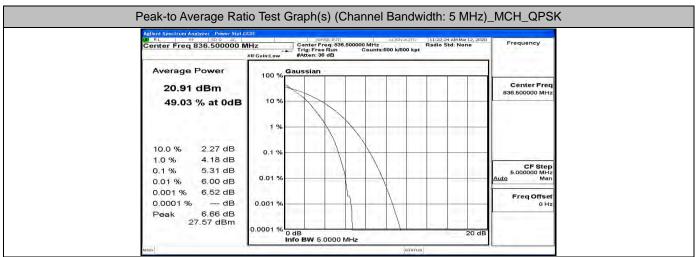


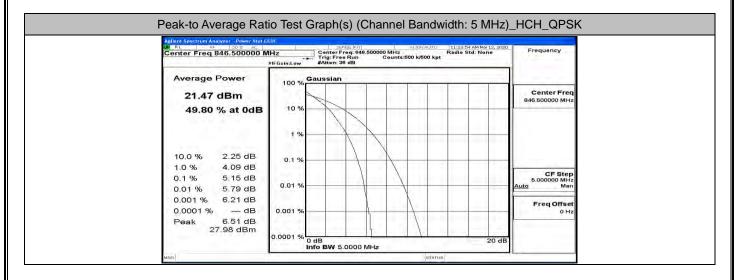


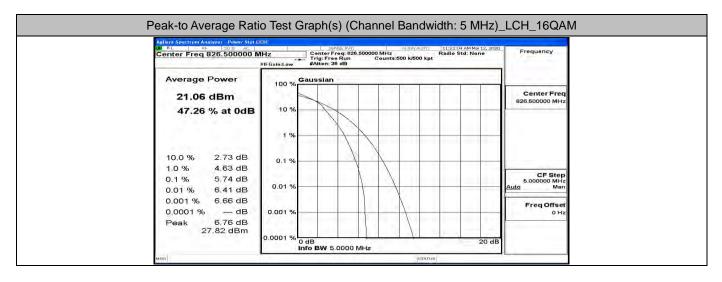


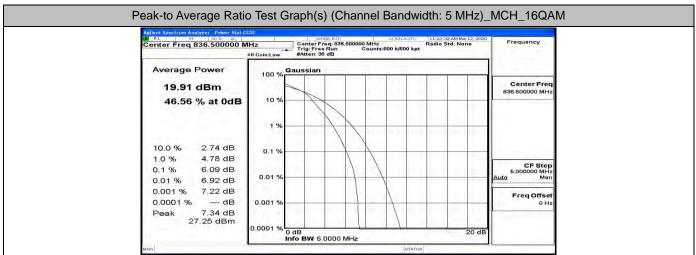


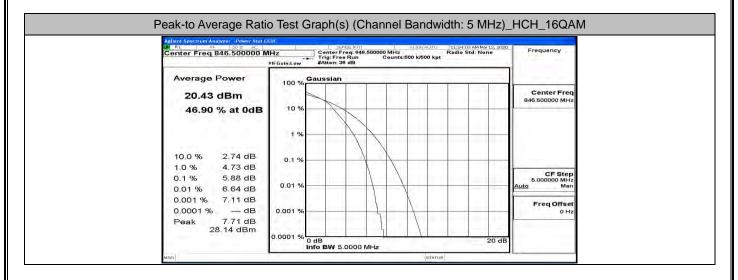






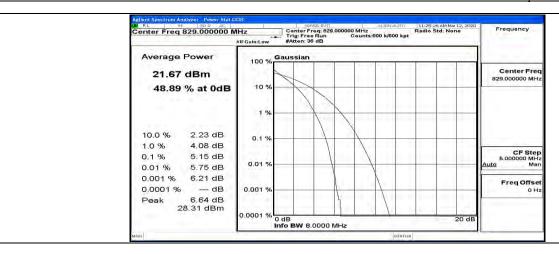


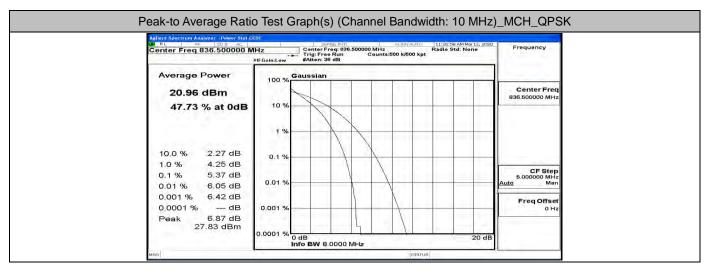


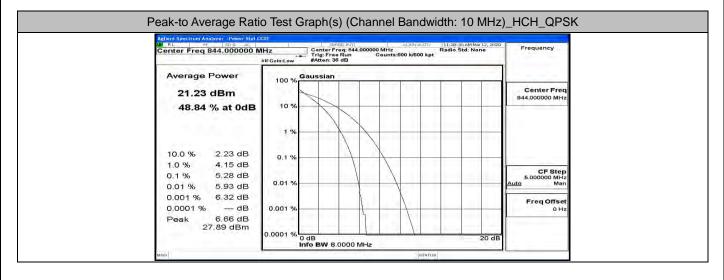


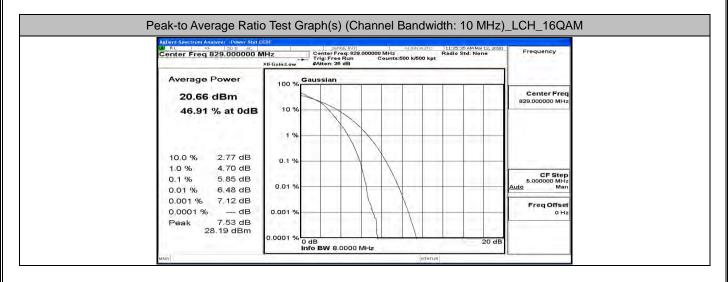
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK

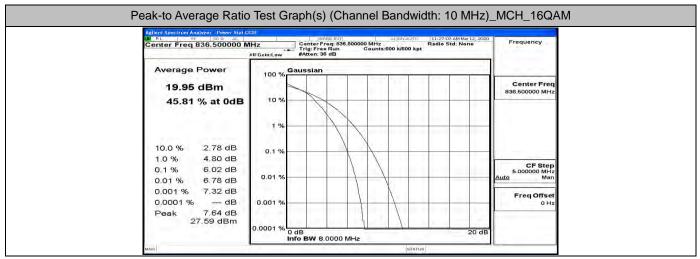
SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2AIOHHT4P7L Report No.: LCS191210087AEI

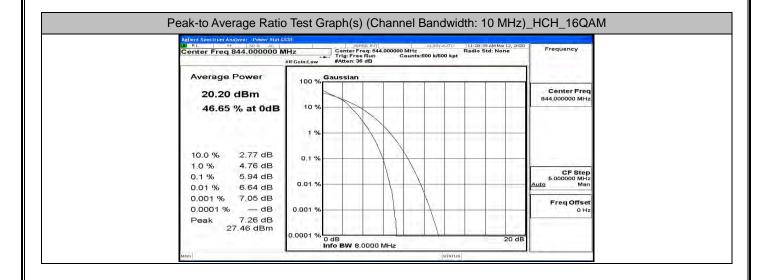












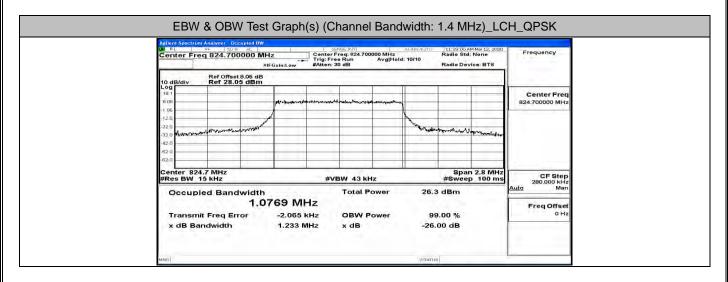
I.3 26dB Bandwidth and Occupied Bandwidth

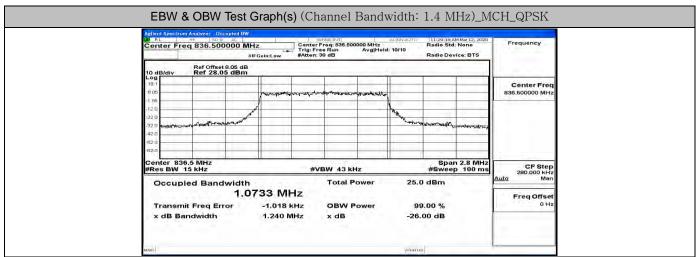
EBW & OBW Test Result (Channel Bandwidth: 1.4 MHz)					
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict	
		(MHz)	(MHz)		
	LCH	1.0769	1.233	PASS	
QPSK	MCH	1.0733	1.240	PASS	
	HCH	1.0768	1.225	PASS	
16QAM	LCH	1.0799	1.244	PASS	
	MCH	1.0792	1.229	PASS	
	HCH	1.0770	1.231	PASS	

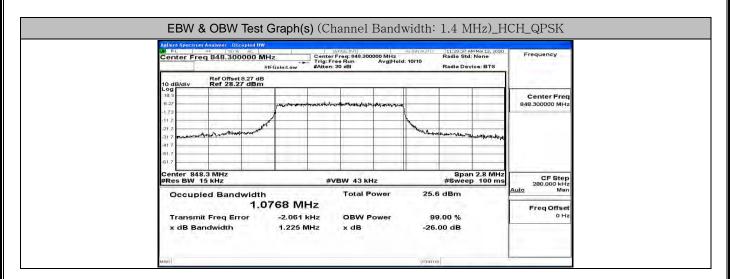
EBW & OBW Test Result (Channel Bandwidth: 3 MHz)						
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Vordict		
Modulation	Griannei	(MHz)	(MHz)	Verdict		
QPSK	LCH	2.6790	2.838	PASS		
	MCH	2.6817	2.816	PASS		
	HCH	2.6807	2.849	PASS		
16QAM	LCH	2.6796	2.836	PASS		
	MCH	2.6810	2.835	PASS		
	HCH	2.6871	2.836	PASS		

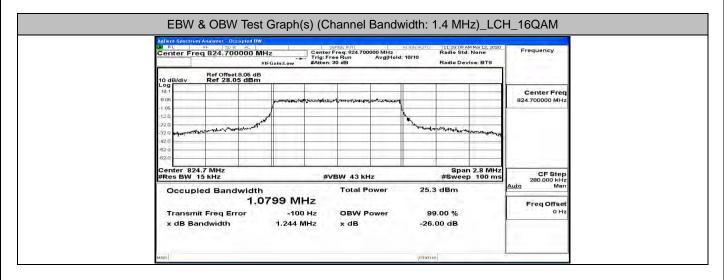
EBW & OBW Test Result (Channel Bandwidth: 5 MHz)						
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Vordiet		
Modulation	Channel	(MHz)	(MHz)	Verdict		
QPSK	LCH	4.4653	4.729	PASS		
	MCH	4.4817	4.740	PASS		
	HCH	4.4756	4.708	PASS		
16QAM	LCH	4.4664	4.738	PASS		
	MCH	4.4800	4.743	PASS		
	HCH	4.4744	4.758	PASS		

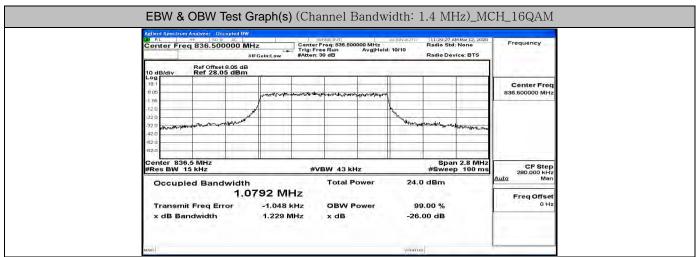
EBW & OBW Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict
		(MHz)	(MHz)	
QPSK	LCH	8.9308	9.394	PASS
	MCH	8.9465	9.431	PASS
	HCH	8.9283	9.369	PASS
16QAM	LCH	8.9348	9.347	PASS
	MCH	8.9470	9.436	PASS
	HCH	8.9345	9.342	PASS

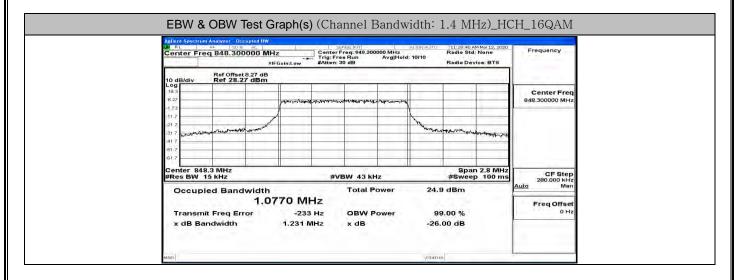


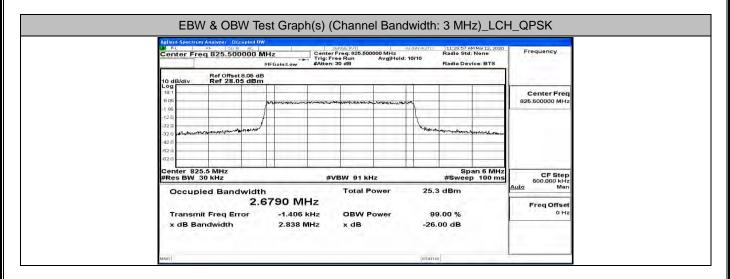


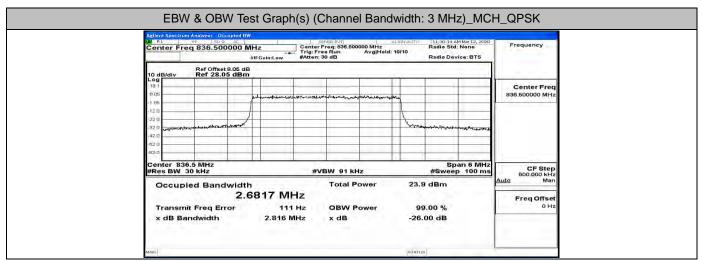


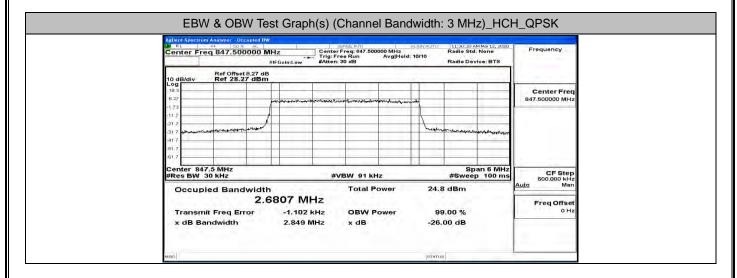


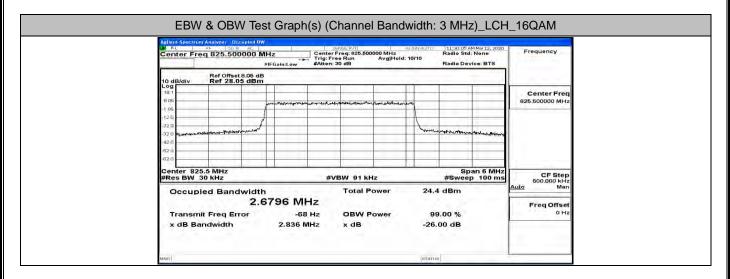


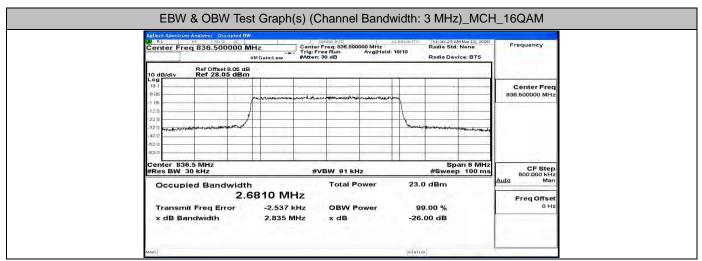


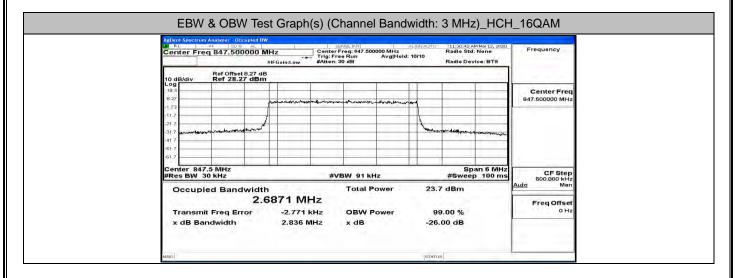


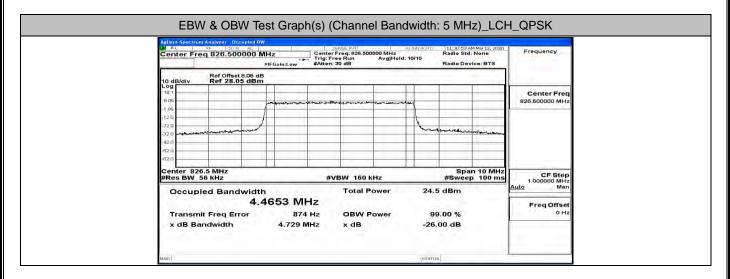


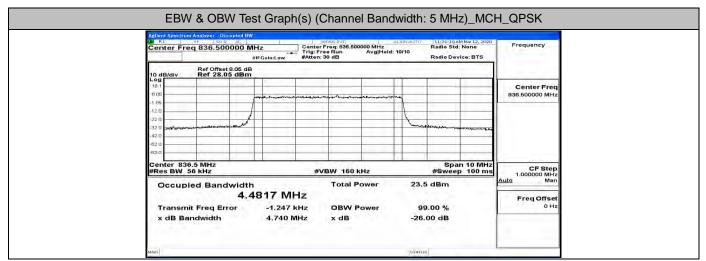


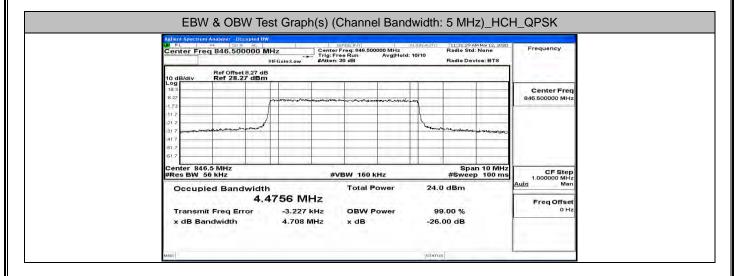


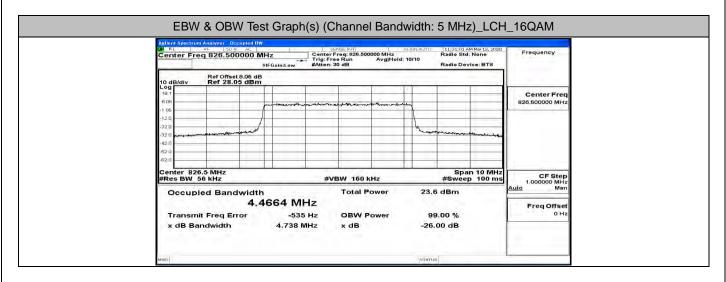


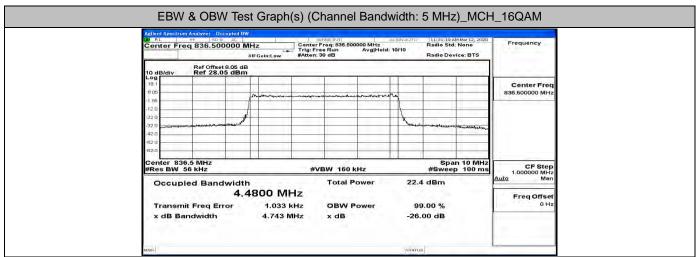


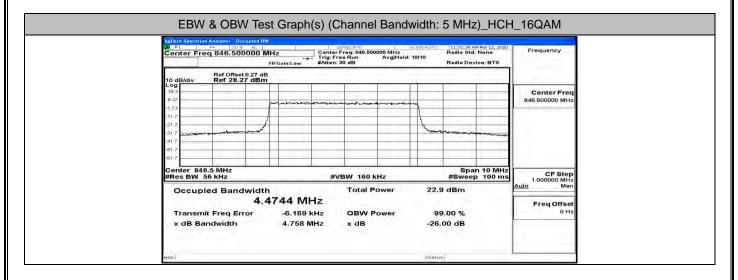


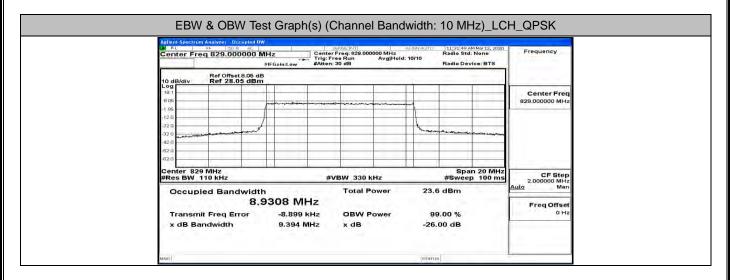


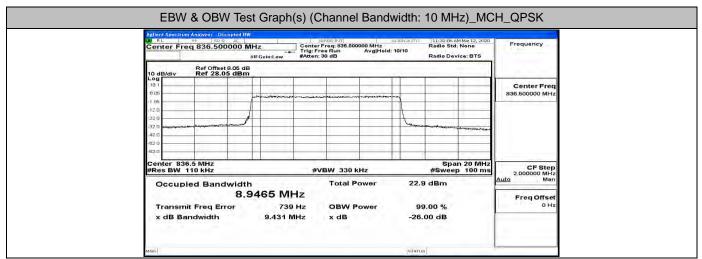


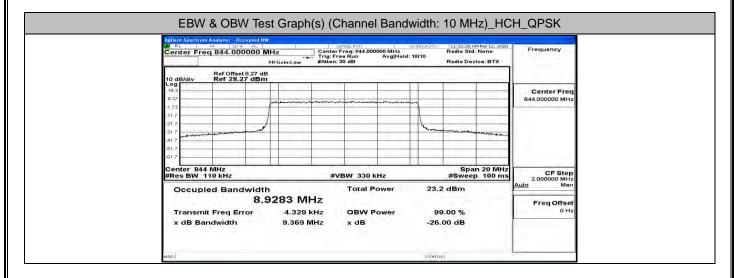


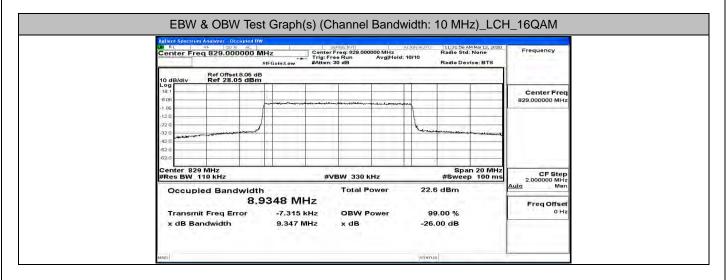


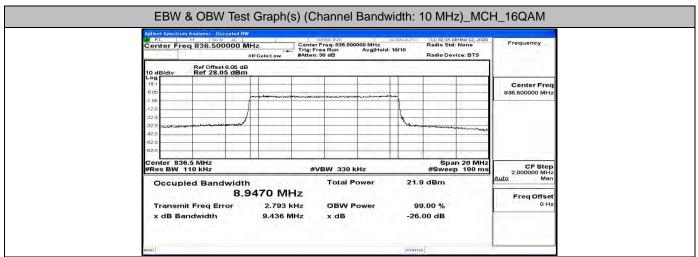


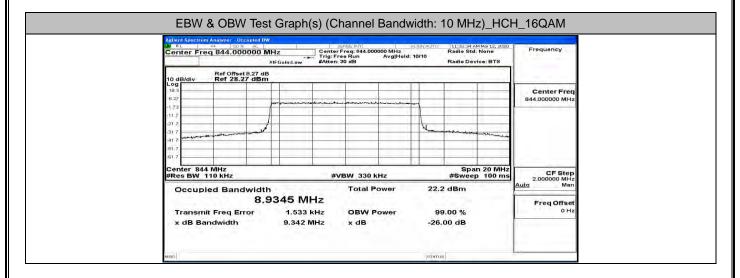




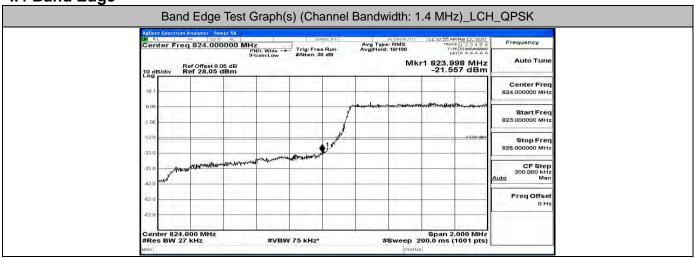


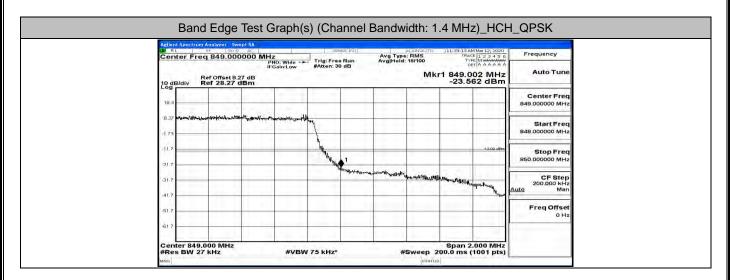


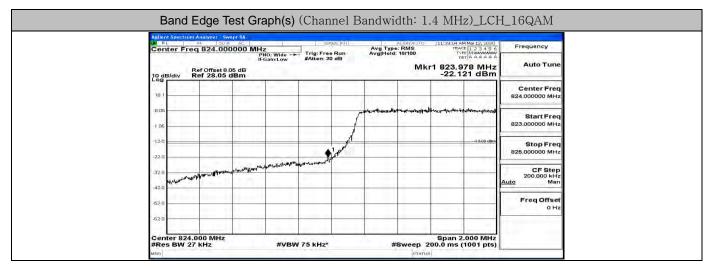


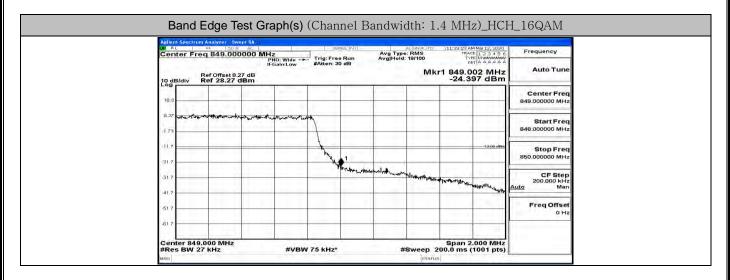


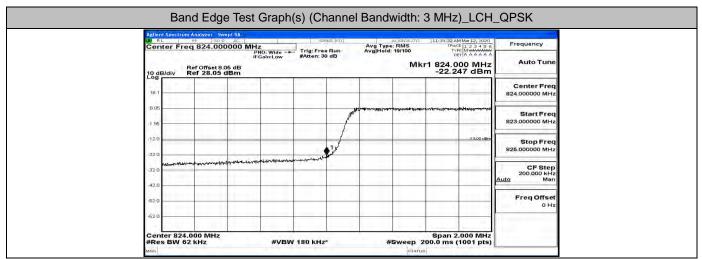
I.4 Band Edge

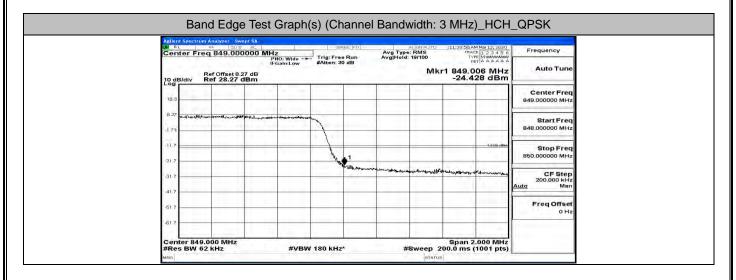


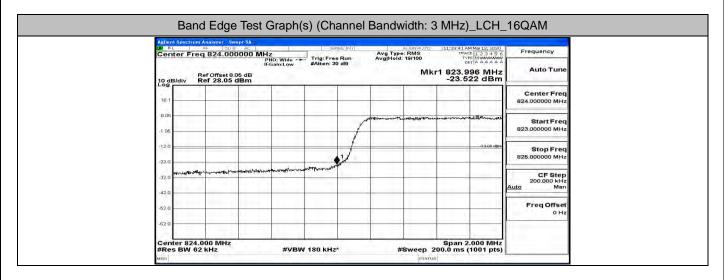


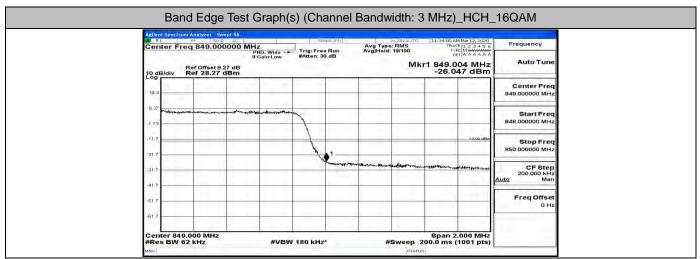


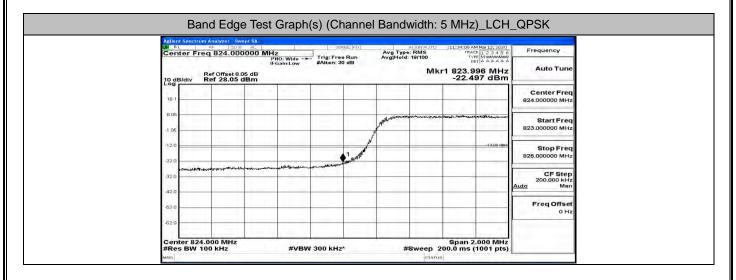


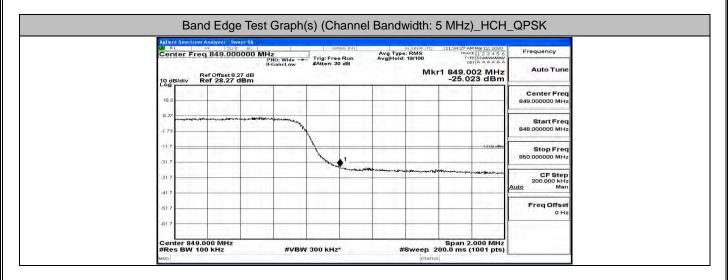


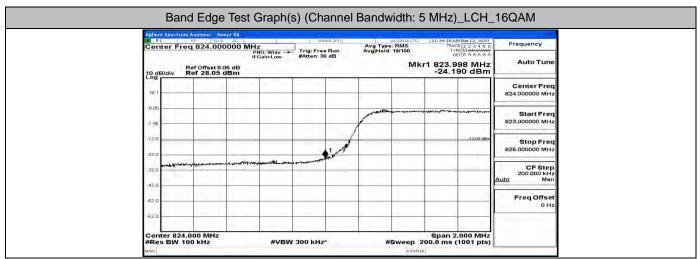


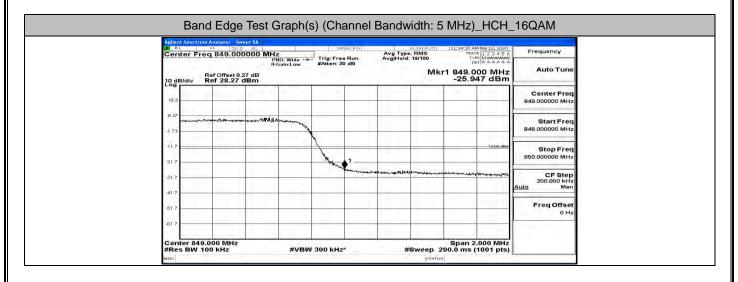


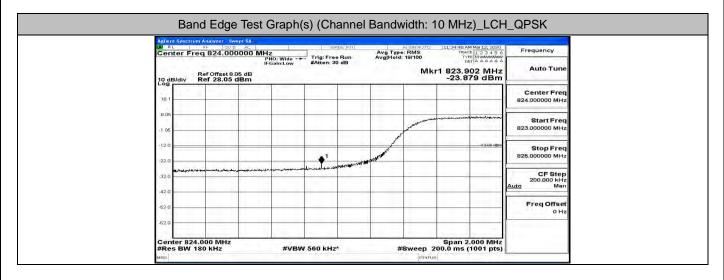


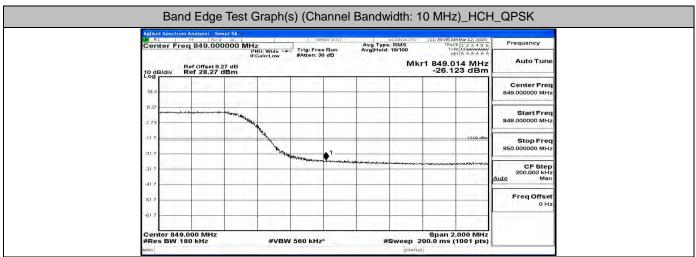


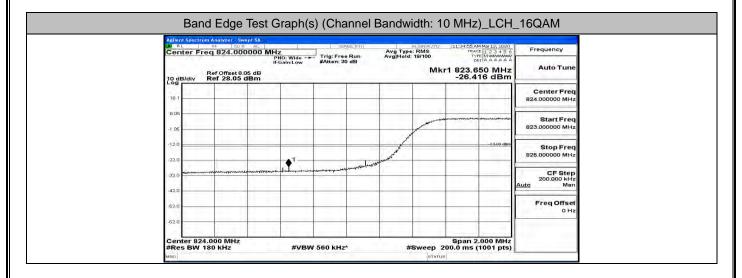


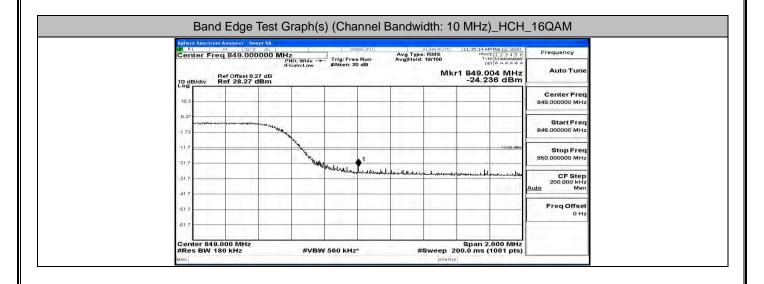




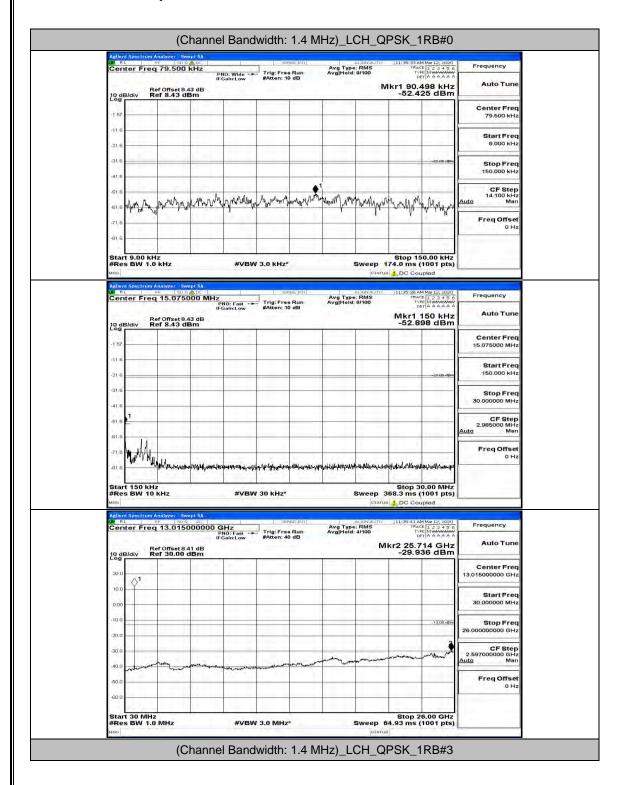


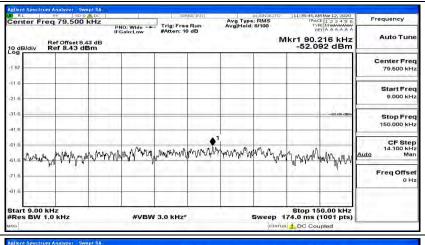


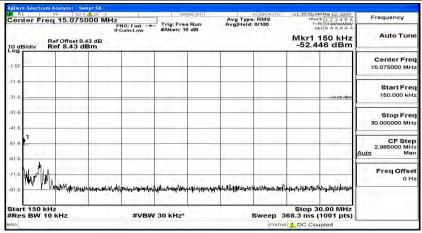




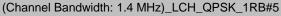
I.5 Conducted Spurious Emission Channel Bandwidth: 1.4 MHz

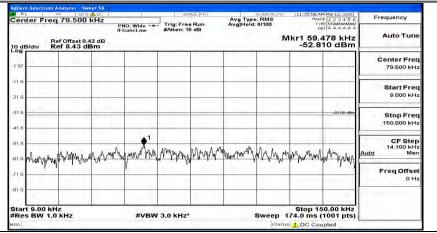


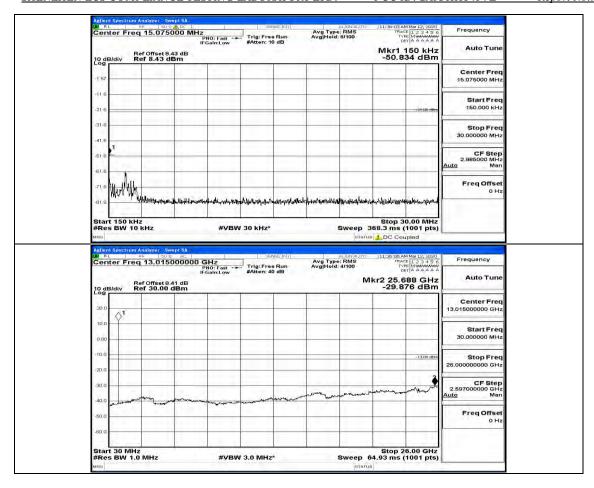


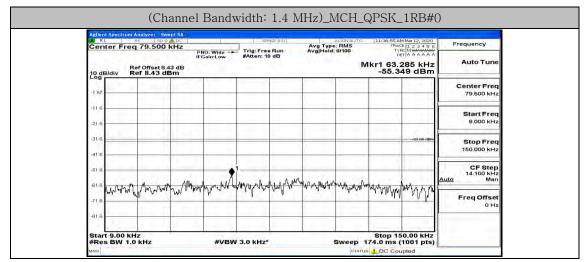


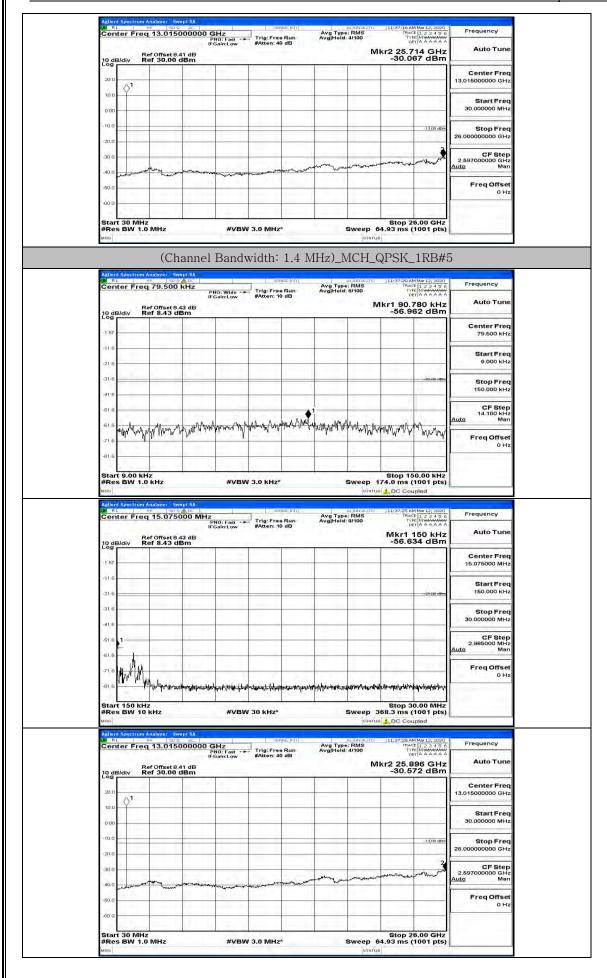


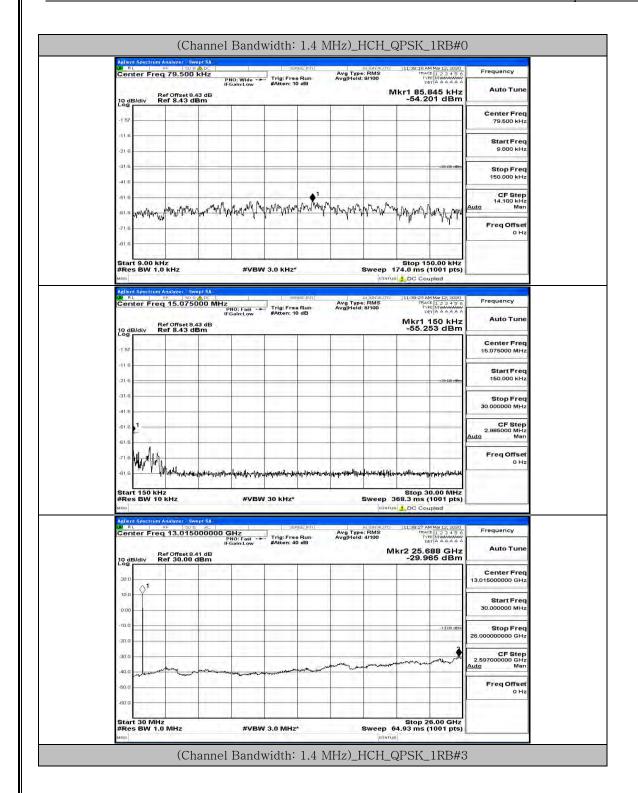


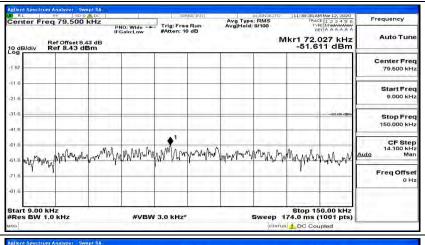


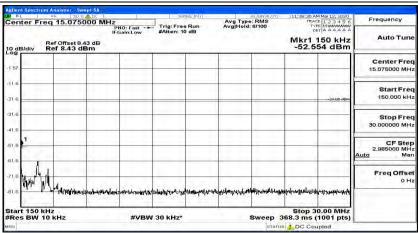






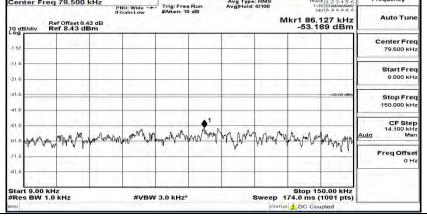


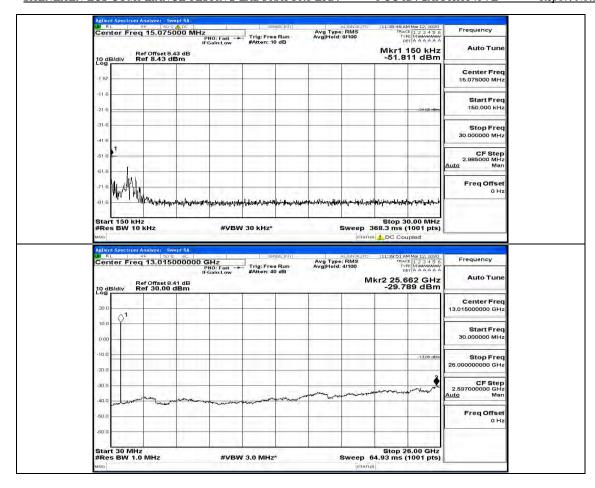


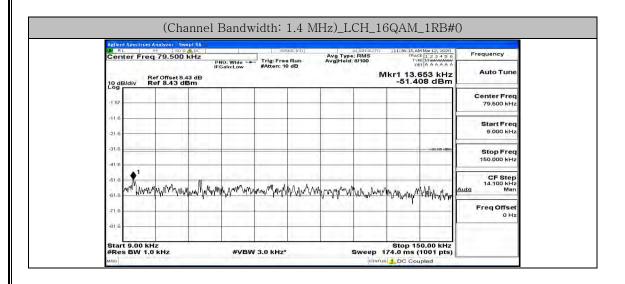


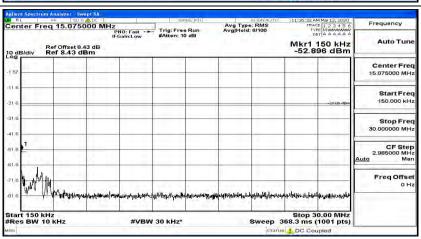


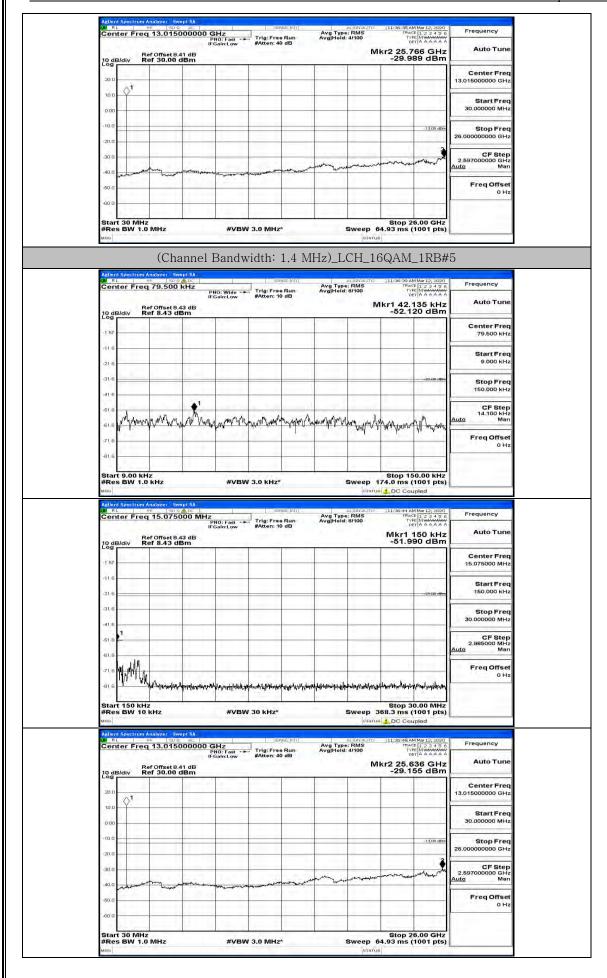


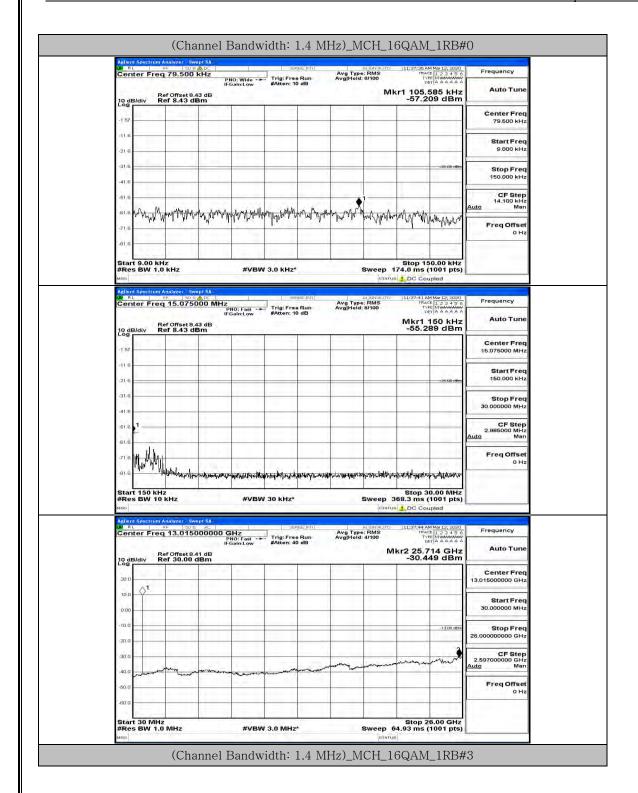


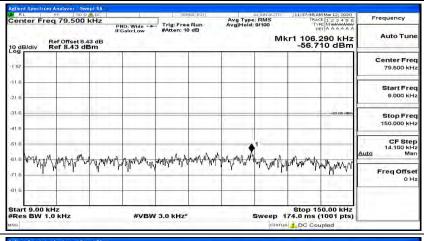


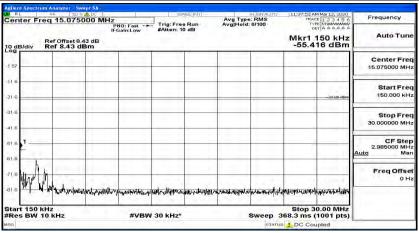




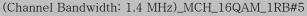


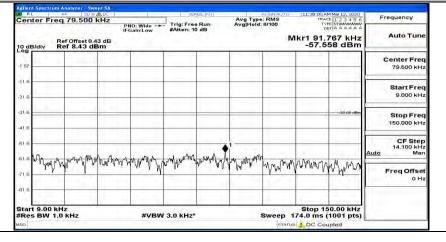


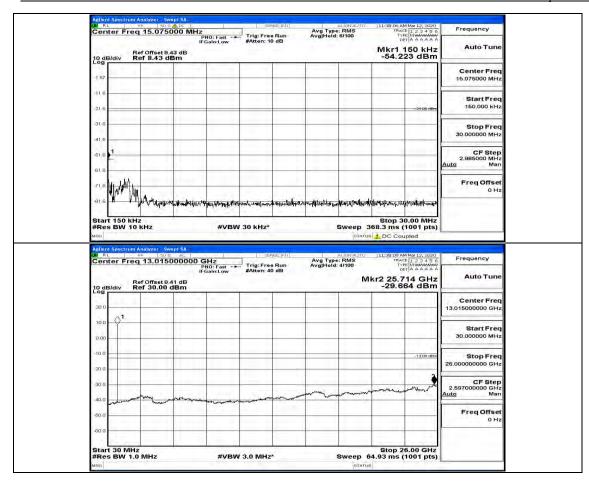


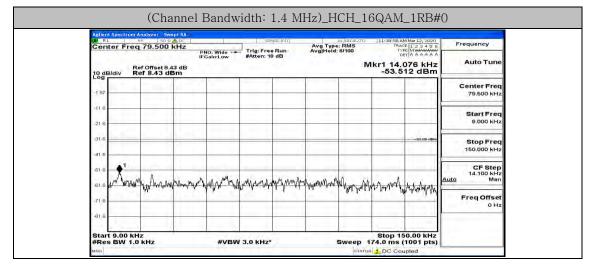


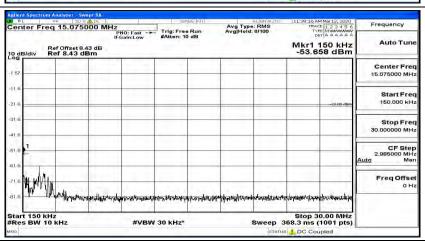


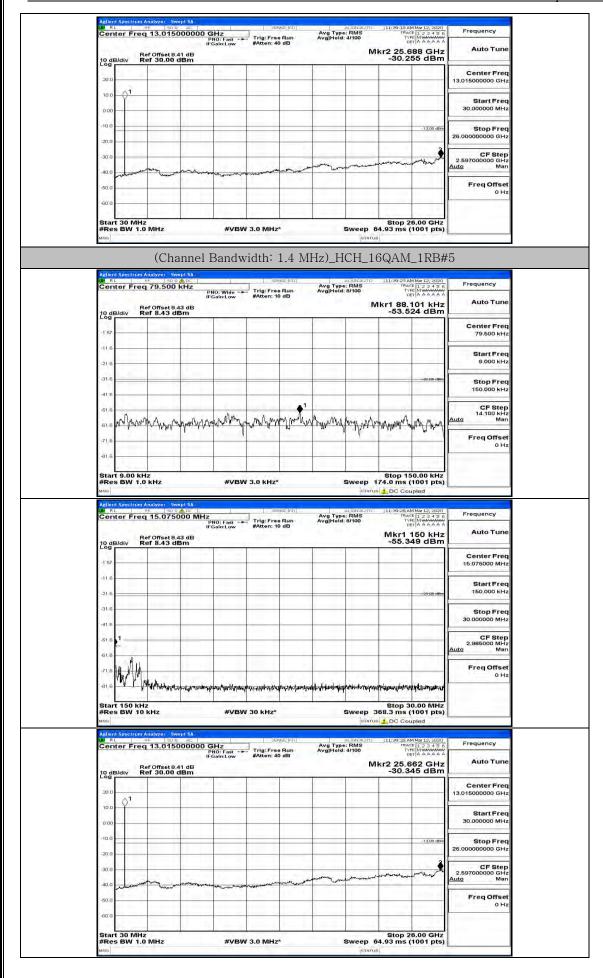




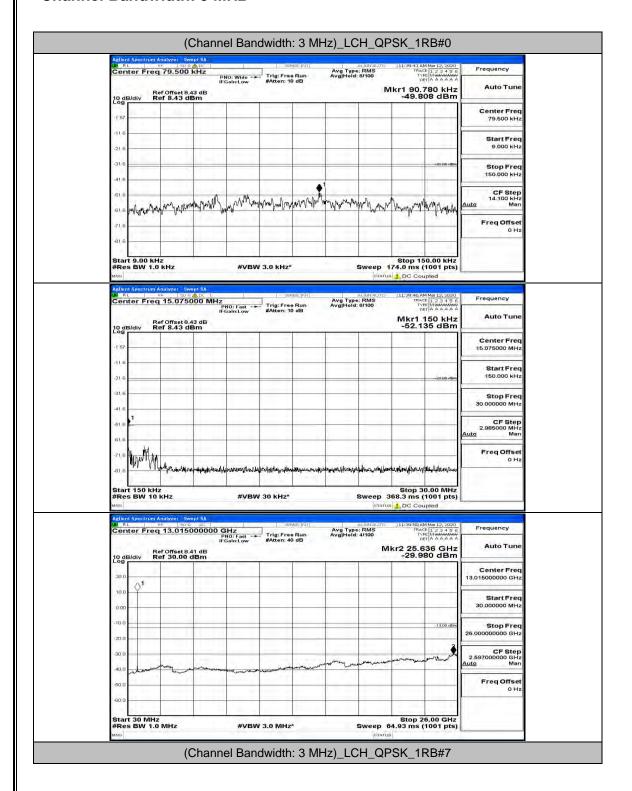


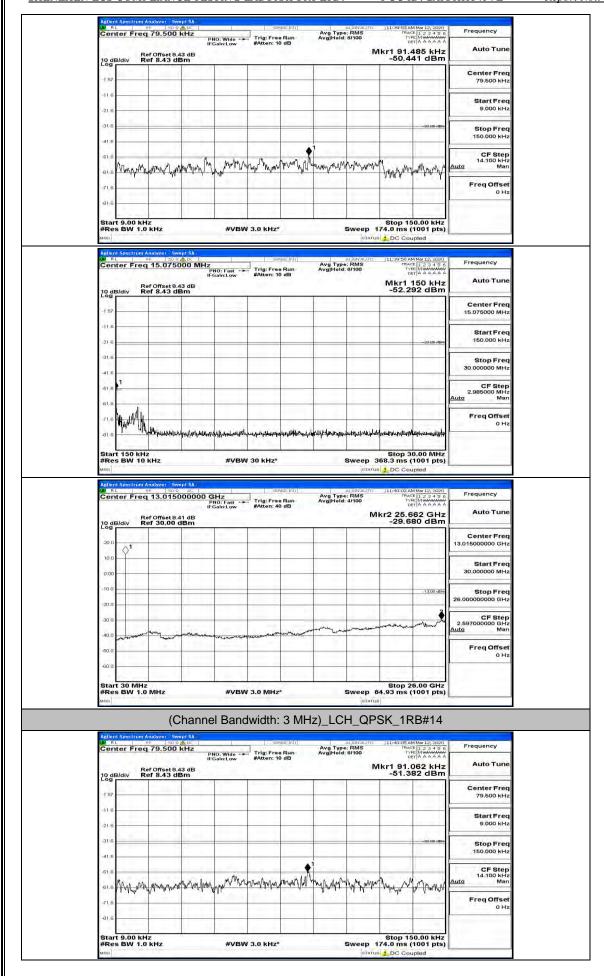


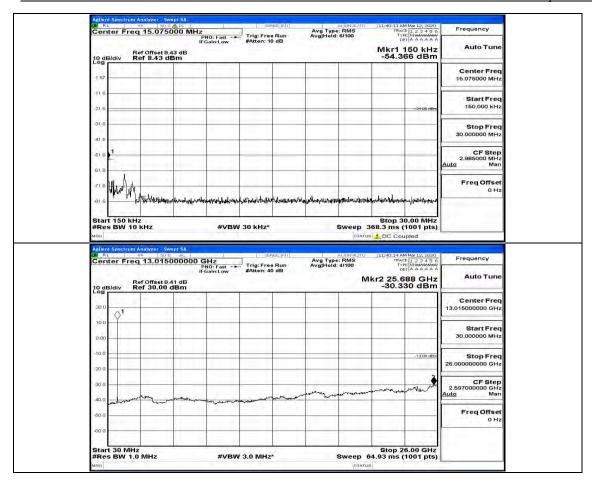


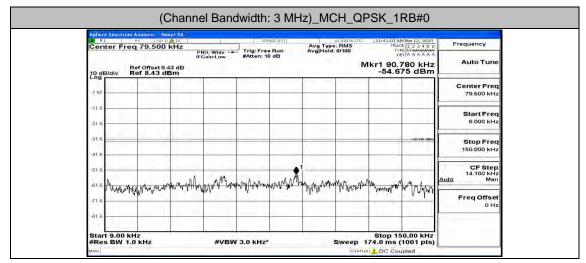


Channel Bandwidth: 3 MHz







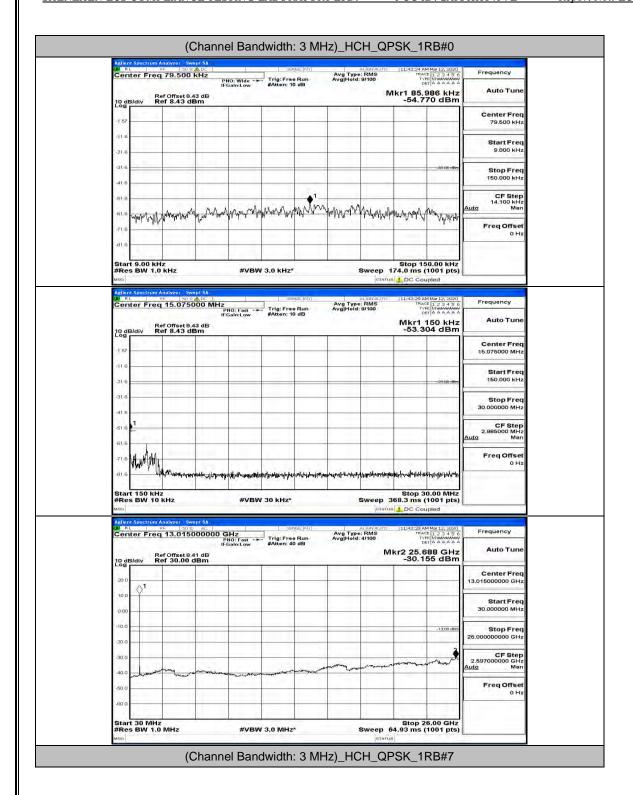


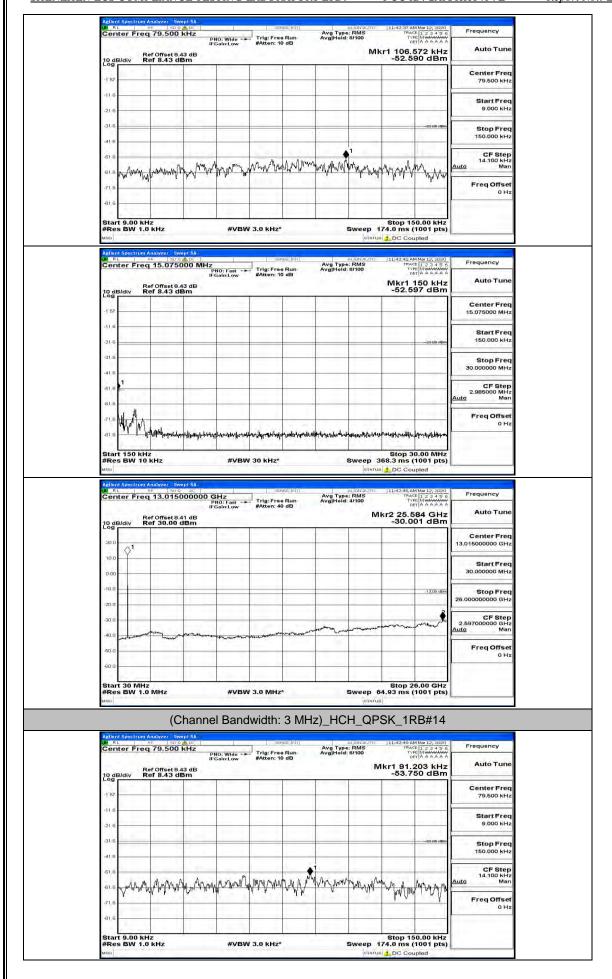
Stop 26.00 GHz Sweep 64.93 ms (1001 pts)

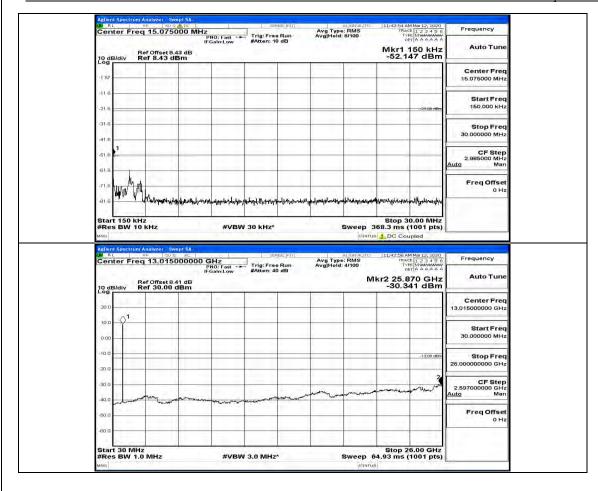
Start 30 MHz #Res BW 1.0 MHz

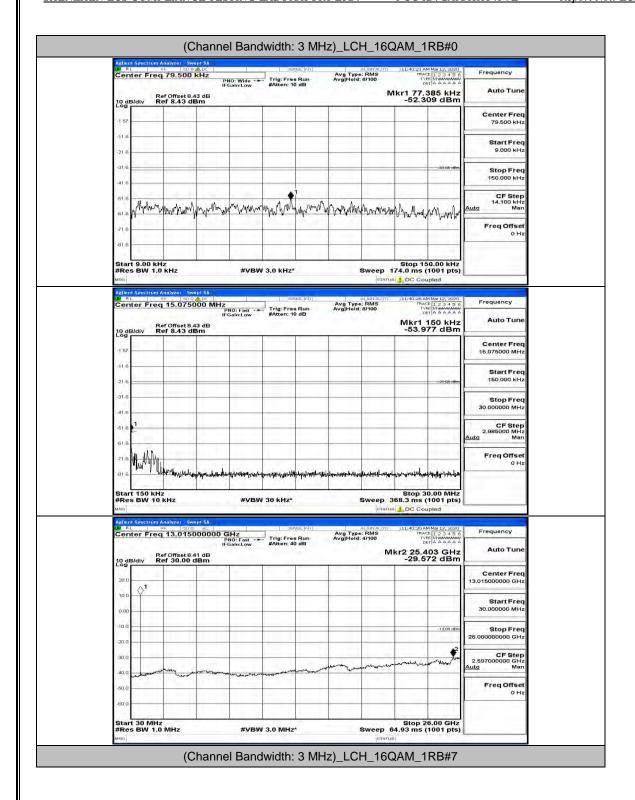
#VBW 3.0 MHz*

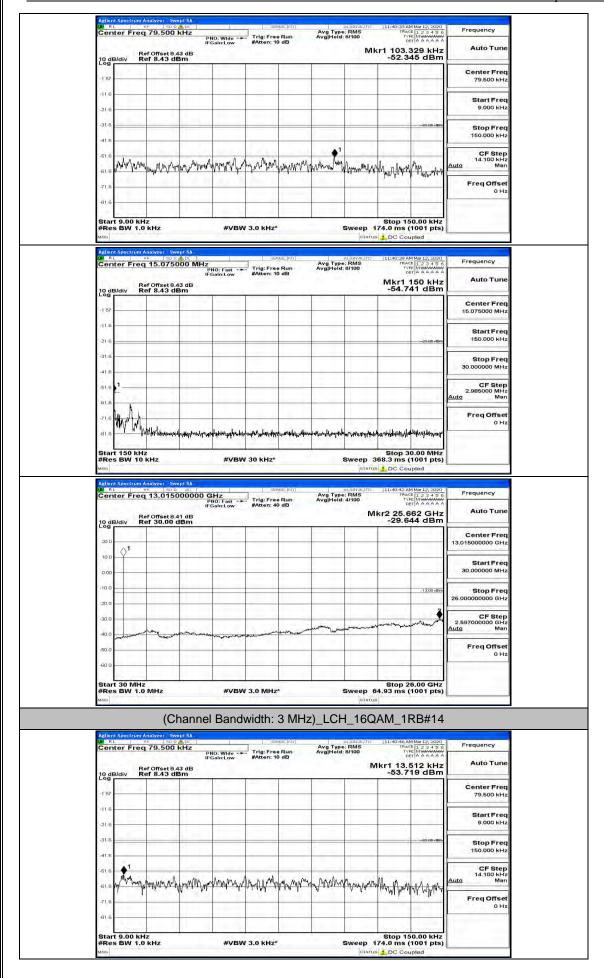
Freq Offset 0 Hz

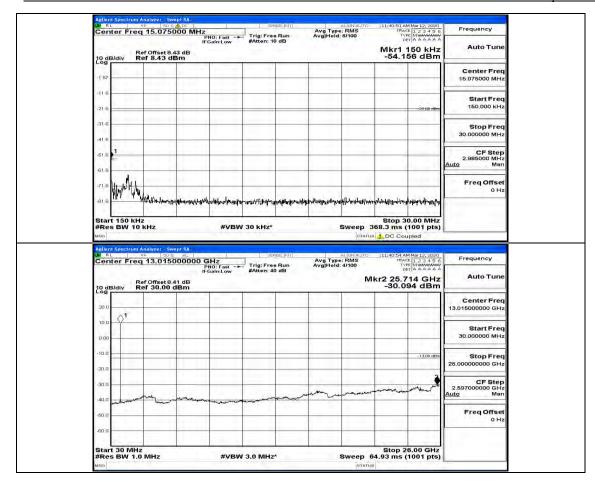


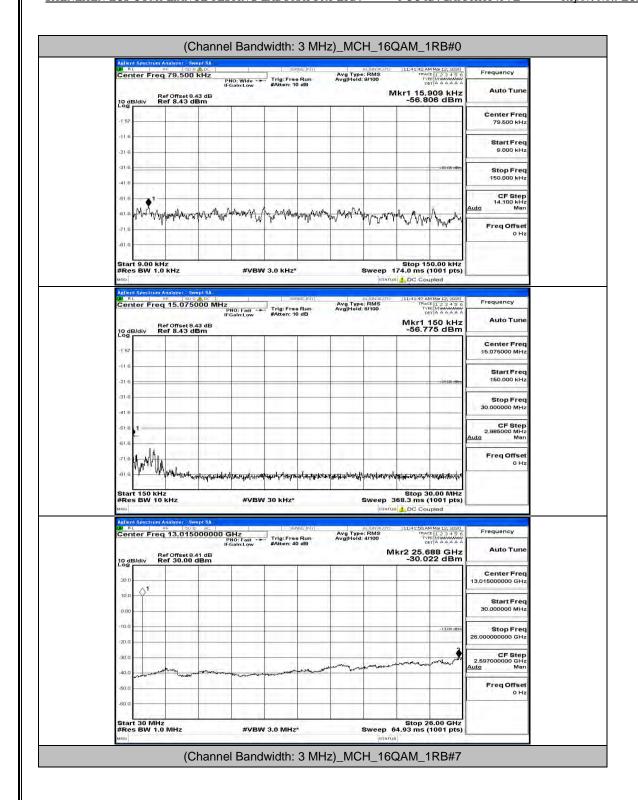


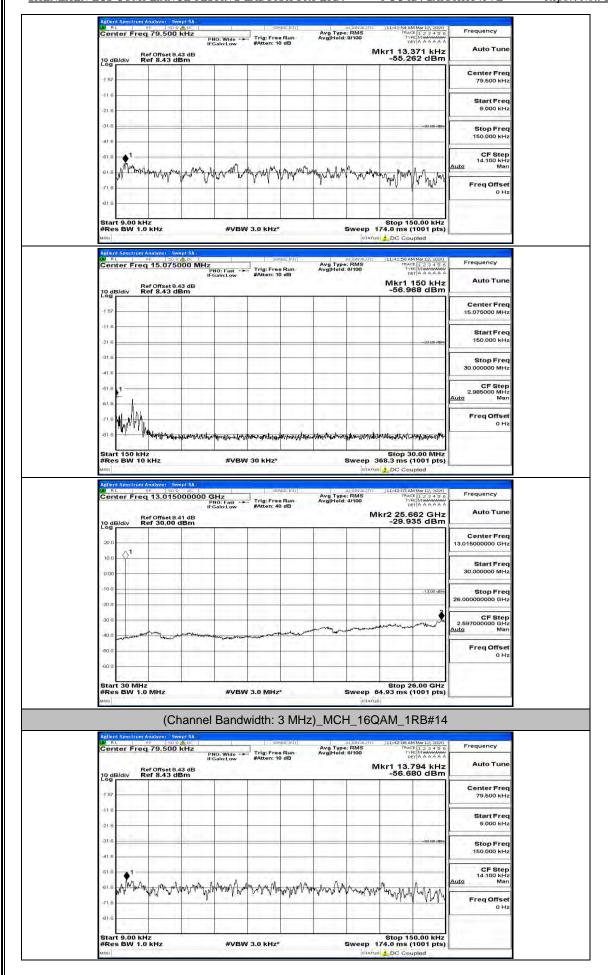


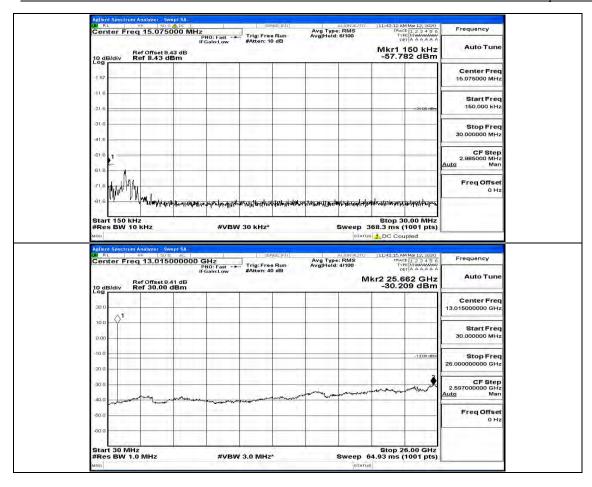


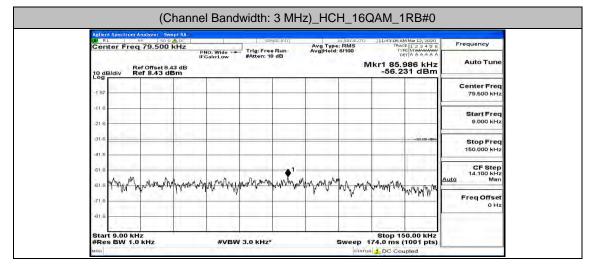












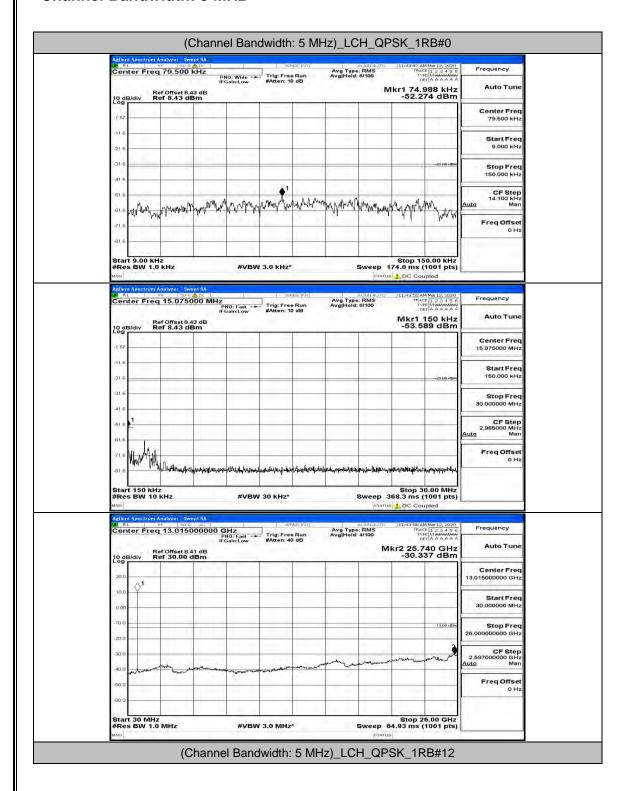
Stop 26.00 GHz Sweep 64.93 ms (1001 pts)

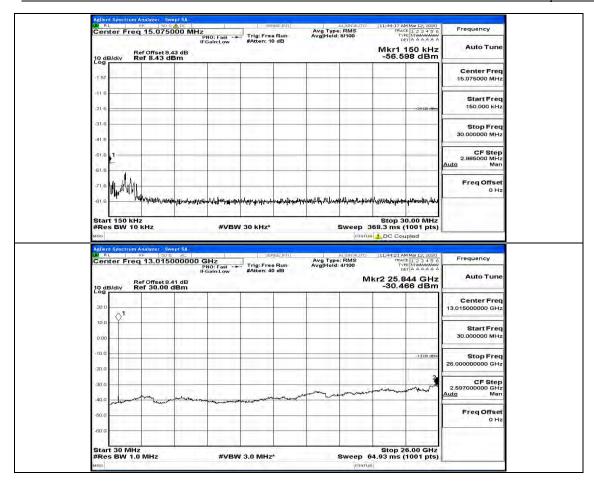
Start 30 MHz #Res BW 1.0 MHz

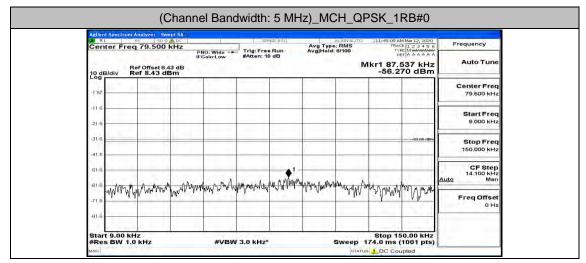
#VBW 3.0 MHz

Freq Offset 0 Hz

Channel Bandwidth: 5 MHz



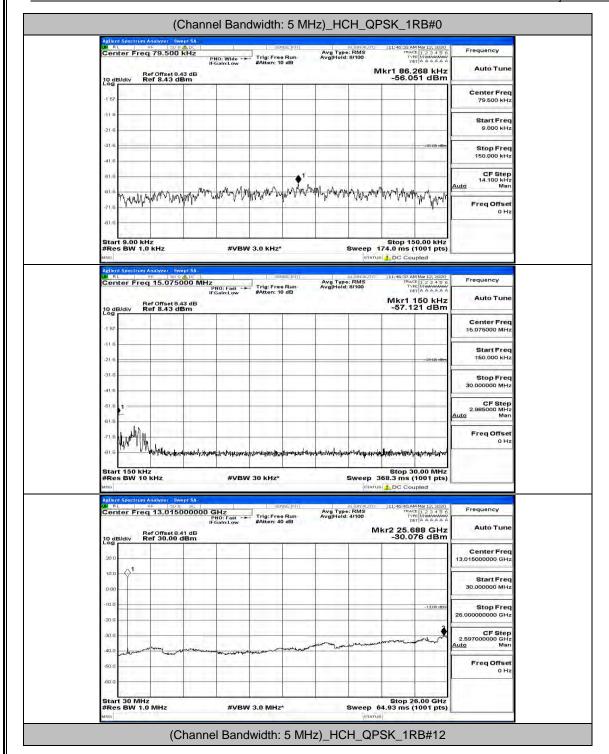




FCC ID: 2AIOHHT4P7L

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