Appendix J: Test Data for E-UTRA Band 7

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

J.1 Conducted Output Power

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	20.16	19.42	PASS
		1	12	20.62	18.88	PASS
		1	24	20.55	17.83	PASS
	LCH	12	0	20.88	17.96	PASS
		12	6	20.51	17.57	PASS
		12	13	20.95	17.03	PASS
		25	0	20.45	17.47	PASS
	МСН	1	0	21.01	19.88	PASS
		1	12	20.76	19.63	PASS
QPSK /		1	24	20.89	18.78	PASS
16QAM		12	0	20.77	18.78	PASS
IOQAW		12	6	20.52	18.53	PASS
		12	13	20.11	18.11	PASS
		25	0	20.47	18.46	PASS
		1	0	20.31	19.42	PASS
		1	12	20.57	19.58	PASS
		1	24	20.06	19.12	PASS
	HCH	12	0	20.42	18.38	PASS
		12	6	20.45	18.40	PASS
		12	13	20.20	18.20	PASS
		25	0	20.33	18.35	PASS

Conducted Output Power Test Result (Channel Bandwidth: 10 MHz)						
Modulation	Channal	RB Con	figuration	Average Power [dBm]	Average Power [dBm]	Vardiet
Modulation	Channel	Size	Offset	QPSK	16QAM	Verdict
		1	0	20.09	19.24	PASS
		1	24	20.66	17.88	PASS
		1	49	20.35	16.60	PASS
	LCH	25	0	20.39	17.41	PASS
		25	12	20.59	16.64	PASS
		25	25	20.89	15.93	PASS
		50	0	20.70	16.70	PASS
	МСН	1	0	21.14	20.35	PASS
		1	24	20.63	19.77	PASS
QPSK /		1	49	20.07	18.32	PASS
16QAM		25	0	20.99	18.95	PASS
TOQAW		25	12	20.52	18.50	PASS
		25	25	20.77	17.81	PASS
		50	0	20.41	18.36	PASS
		1	0	20.68	18.99	PASS
		1	24	20.59	19.86	PASS
		1	49	20.16	19.44	PASS
	HCH	25	0	20.20	18.17	PASS
		25	12	20.41	18.40	PASS
		25	25	20.38	18.37	PASS
		50	0	20.26	18.28	PASS

Conducted Output Power Test Result (Channel Bandwidth: 15 MHz)						
Madulation	Channal	RB Configuration		Average Power [dBm]	Average Power [dBm]	\/a ==li =4
Modulation	Channel	Size	Offset	QPSK	16QAM	Verdict
		1	0	20.87	19.07	PASS
		1	37	20.00	17.08	PASS
		1	74	20.12	16.35	PASS
	LCH	37	0	20.06	16.98	PASS
		37	18	20.01	15.98	PASS
		37	38	20.44	15.35	PASS
		75	0	20.27	16.21	PASS
	МСН	1	0	20.85	20.04	PASS
		1	37	20.66	19.80	PASS
QPSK /		1	74	18.33	17.60	PASS
16QAM		37	0	20.14	19.05	PASS
TOQAW		37	18	20.63	18.54	PASS
		37	38	20.56	17.48	PASS
		75	0	2.43	18.36	PASS
		1	0	20.21	17.48	PASS
		1	37	20.38	19.39	PASS
		1	74	20.14	19.28	PASS
	HCH	37	0	20.27	17.27	PASS
		37	18	20.11	18.10	PASS
		37	38	20.47	18.42	PASS
		75	0	20.91	17.87	PASS

Conducted Output Power Test Result (Channel Bandwidth: 20 MHz)						
Madulation	Channal	RB Configuration		Average Power [dBm]	Average Power [dBm]	\/a ==li =4
Modulation	Channel	Size	Offset	QPSK	16QAM	Verdict
		1	0	20.65	18.79	PASS
		1	49	20.56	16.70	PASS
		1	99	20.93	17.05	PASS
	LCH	50	0	20.44	16.42	PASS
		50	25	20.50	15.51	PASS
		50	50	20.64	15.63	PASS
		100	0	20.98	16.00	PASS
	МСН	1	0	20.26	19.38	PASS
		1	49	20.70	19.80	PASS
QPSK /		1	99	20.70	16.84	PASS
16QAM		50	0	20.89	18.84	PASS
TOQAW		50	25	20.37	18.34	PASS
		50	50	20.06	17.02	PASS
		100	0	20.12	18.09	PASS
		1	0	20.32	16.64	PASS
		1	49	20.73	18.94	PASS
		1	99	20.96	19.20	PASS
	HCH	50	0	20.26	16.31	PASS
		50	25	20.49	17.55	PASS
		50	50	20.05	18.10	PASS
		100	0	20.30	17.30	PASS

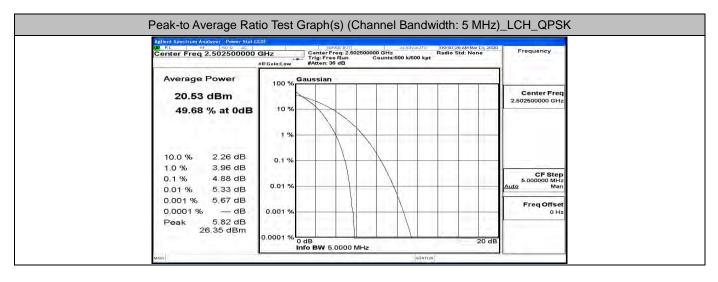
J.2 Peak-to-Average Ratio

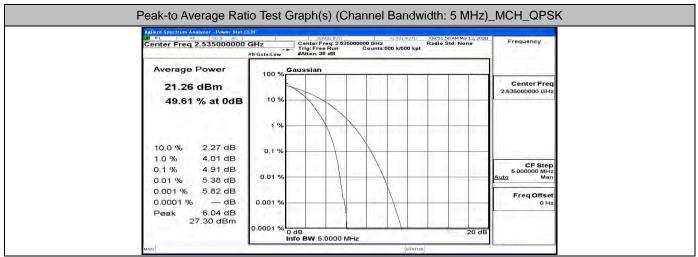
Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)						
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict		
Modulation	Charmer	[dB]	[dB]	verdict		
QPSK	LCH	4.88	<13	PASS		
	MCH	4.91	<13	PASS		
	HCH	4.77	<13	PASS		
16QAM	LCH	5.7	<13	PASS		
	MCH	5.74	<13	PASS		
	HCH	5.52	<13	PASS		

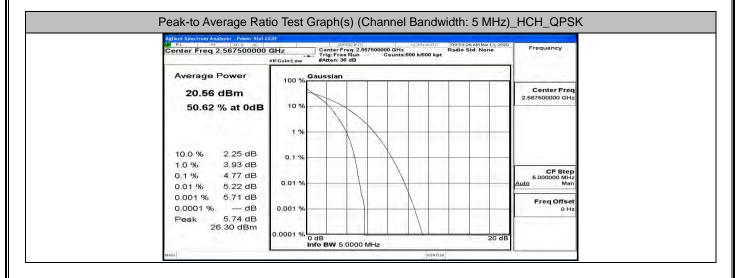
Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)						
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict		
Modulation	Griannei	[dB]	[dB]	verdict		
	LCH	4.96	<13	PASS		
QPSK	MCH	4.95	<13	PASS		
	HCH	4.9	<13	PASS		
16QAM	LCH	5.76	<13	PASS		
	MCH	5.79	<13	PASS		
	HCH	5.68	<13	PASS		

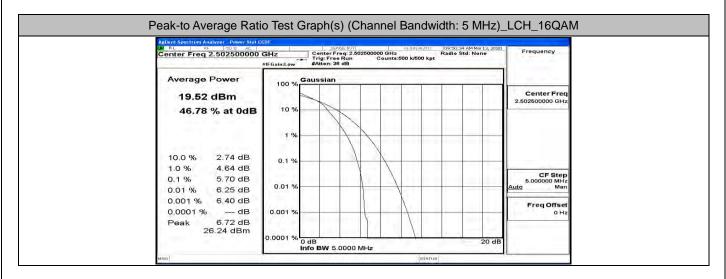
Peak-to Average Ratio Test Result (Channel Bandwidth: 15 MHz)						
Modulation	Channel	Peak-to-Average Ratio	Limit	Vordiet		
IVIOGUIATION	Grianner	[dB]	[dB]	Verdict		
	LCH	4.93	<13	PASS		
QPSK	MCH	4.92	<13	PASS		
	HCH	5.03	<13	PASS		
16QAM	LCH	5.93	<13	PASS		
	MCH	5.93	<13	PASS		
	HCH	6.08	<13	PASS		

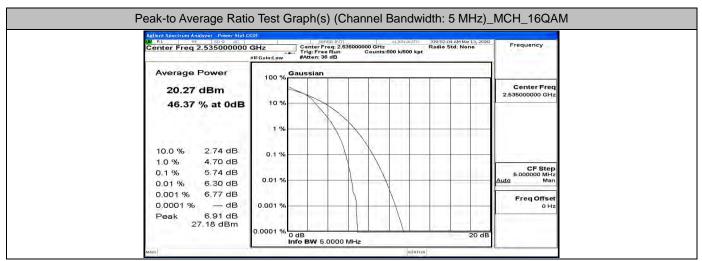
Peak-to Average Ratio Test Result (Channel Bandwidth: 20 MHz)						
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict		
iviodulation	Channel	[dB]	[dB]	verdict		
	LCH	5.66	<13	PASS		
QPSK	MCH	5.77	<13	PASS		
	HCH	5.78	<13	PASS		
16QAM	LCH	6.53	<13	PASS		
	MCH	6.57	<13	PASS		
	HCH	6.6	<13	PASS		

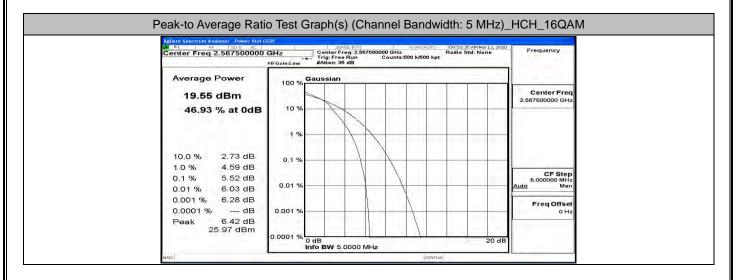


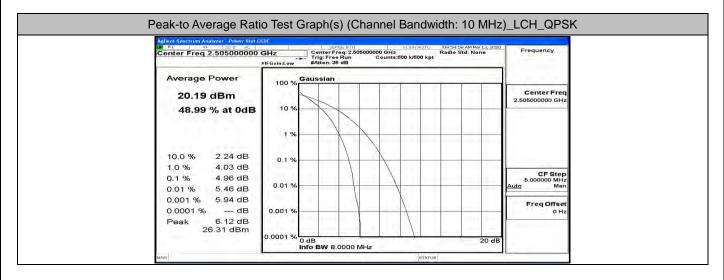


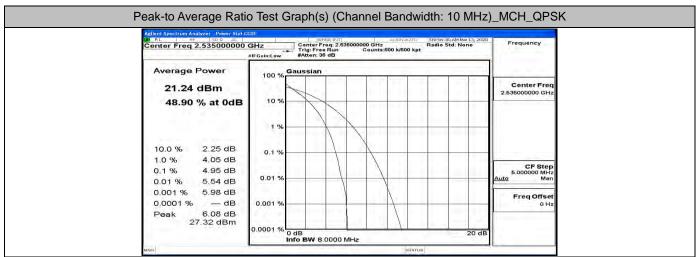


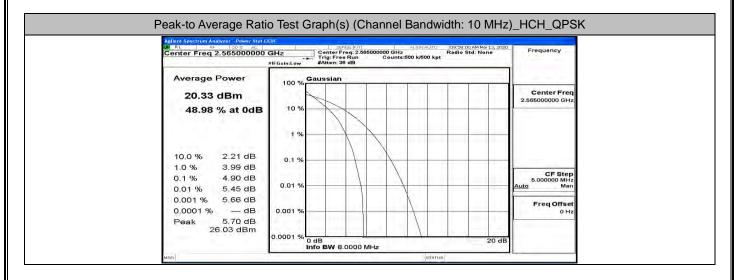


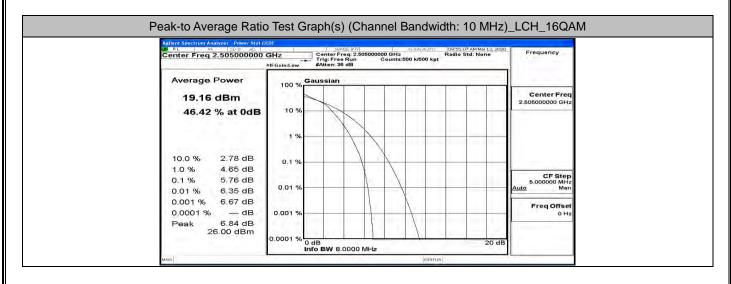


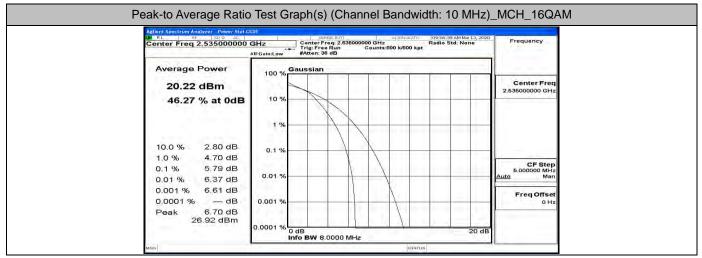


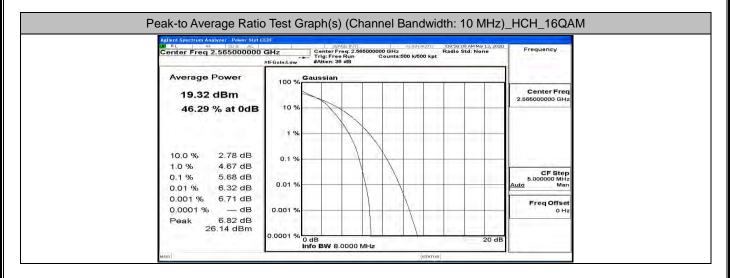


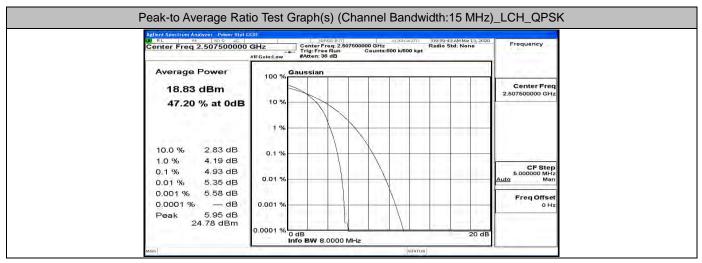


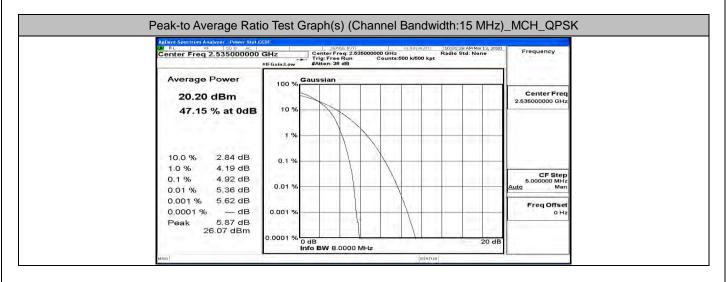


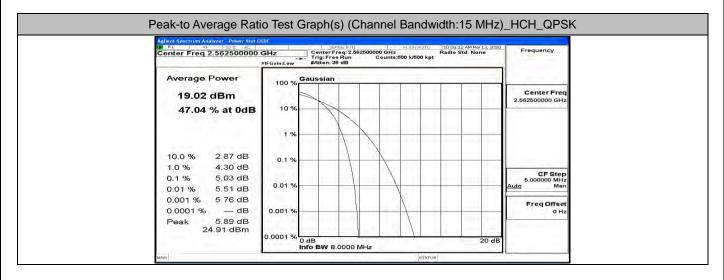


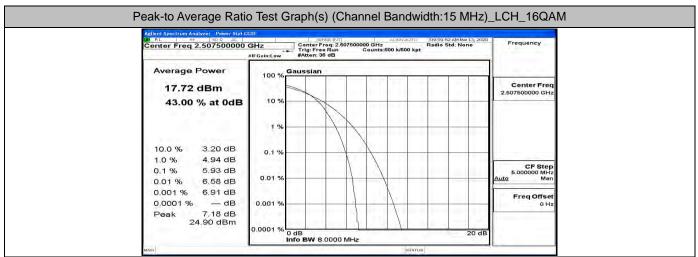


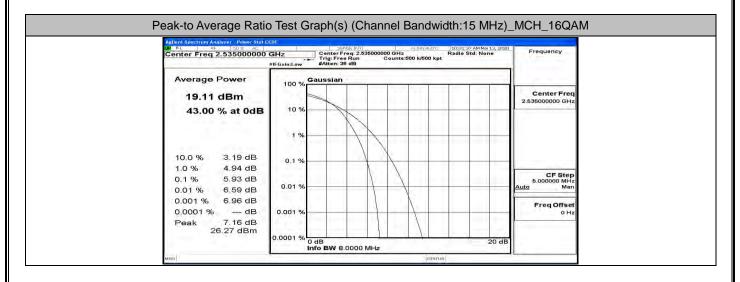


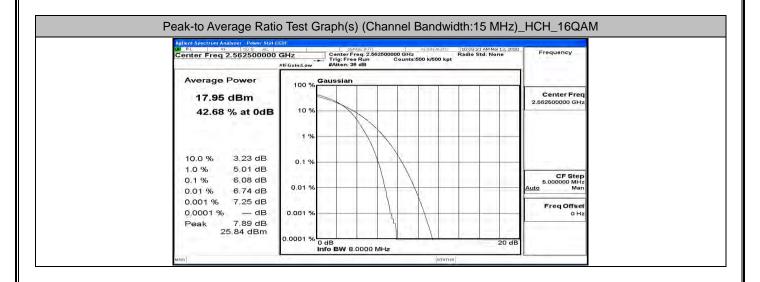


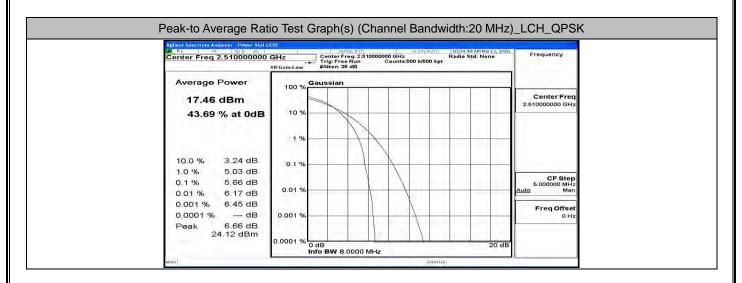


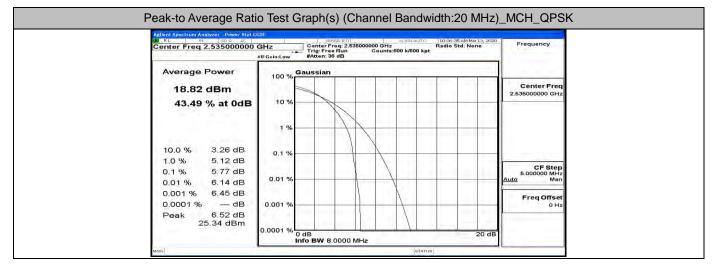


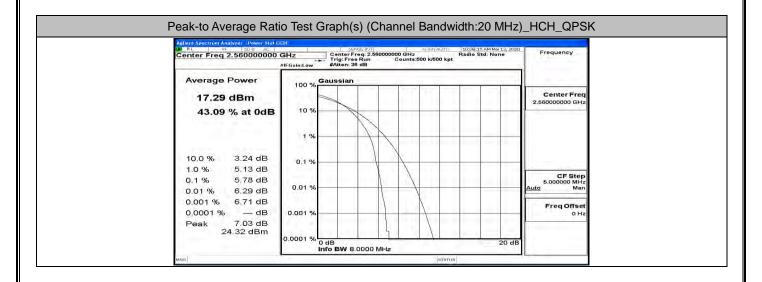


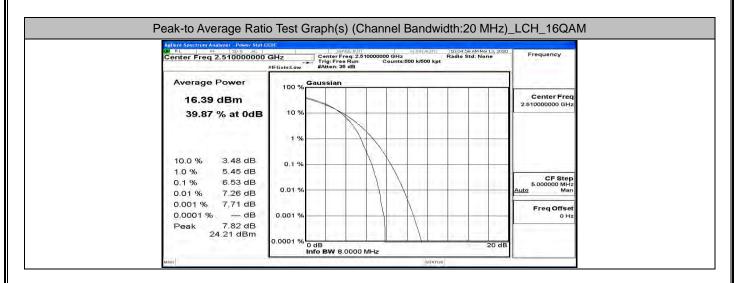


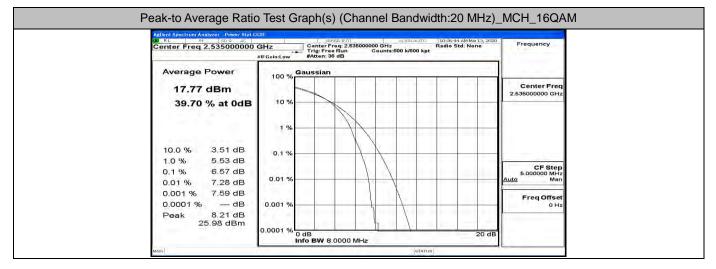


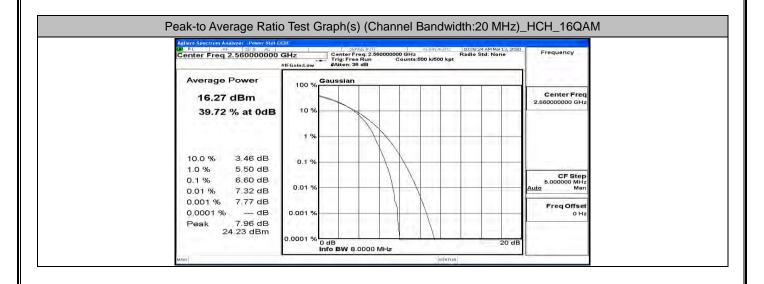












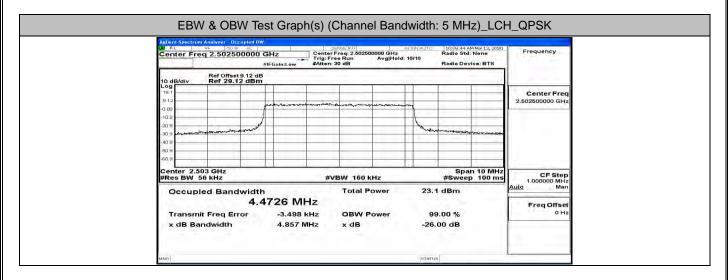
J.3 26dB Bandwidth and Occupied Bandwidth

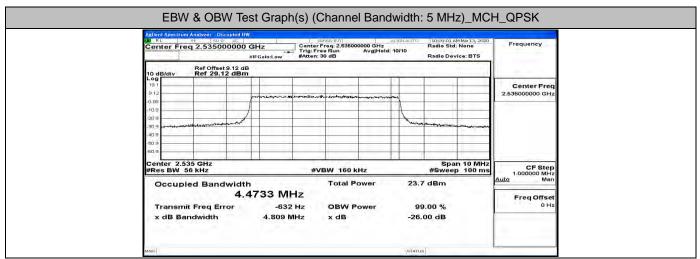
EBW & OBW Test Result (Channel Bandwidth: 5 MHz)						
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict		
Woddiation	Charmer	(MHz)	(MHz)	verdict		
QPSK	LCH	4.4726	4.857	PASS		
	MCH	4.4733	4.809	PASS		
	HCH	4.4746	4.822	PASS		
16QAM	LCH	4.4740	4.816	PASS		
	MCH	4.4761	4.824	PASS		
	HCH	4.4704	4.831	PASS		

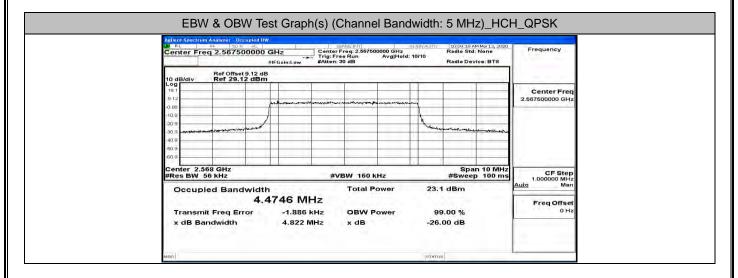
EBW & OBW Test Result (Channel Bandwidth: 10 MHz)						
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Vardiat		
Modulation	Griannei	(MHz)	(MHz)	Verdict		
	LCH	8.9653	9.603	PASS		
QPSK	MCH	8.9377	9.501	PASS		
	HCH	8.9410	9.464	PASS		
16QAM	LCH	8.9445	9.576	PASS		
	MCH	8.9424	9.521	PASS		
	HCH	8.9480	9.500	PASS		

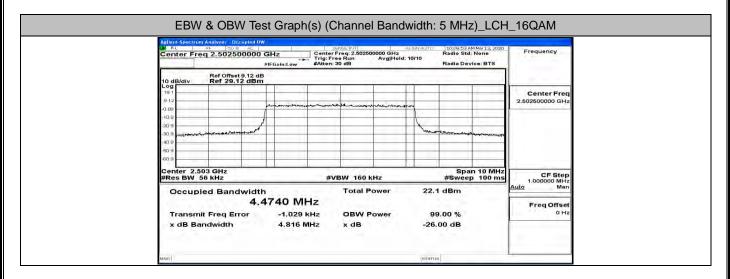
EBW & OBW Test Result (Channel Bandwidth: 15 MHz)						
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict		
Modulation	Griannei	(MHz)	(MHz)	verdict		
	LCH	13.434	14.26	PASS		
QPSK	MCH	13.410	14.11	PASS		
	HCH	13.447	14.25	PASS		
16QAM	LCH	13.418	14.15	PASS		
	MCH	13.397	14.07	PASS		
	HCH	13.427	14.16	PASS		

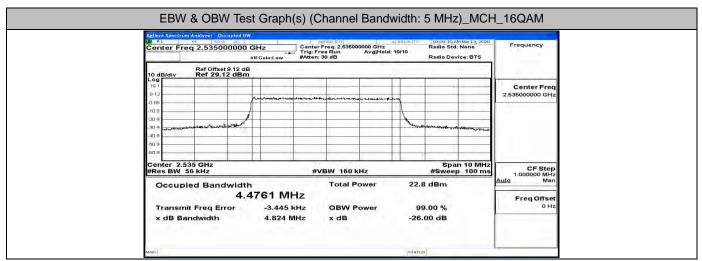
EBW & OBW Test Result (Channel Bandwidth: 20 MHz)				
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict
		(MHz)	(MHz)	
QPSK	LCH	17.857	18.70	PASS
	MCH	17.859	18.54	PASS
	HCH	17.909	18.71	PASS
16QAM	LCH	17.857	18.71	PASS
	MCH	17.866	18.67	PASS
	HCH	17.928	18.73	PASS

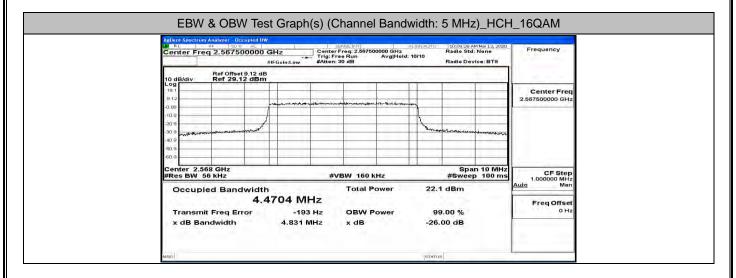


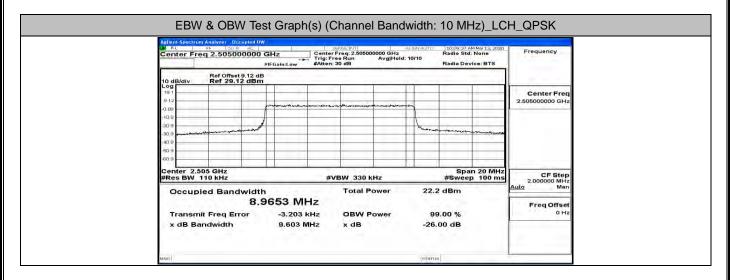


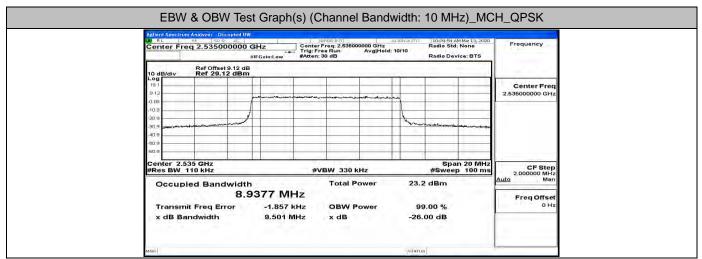


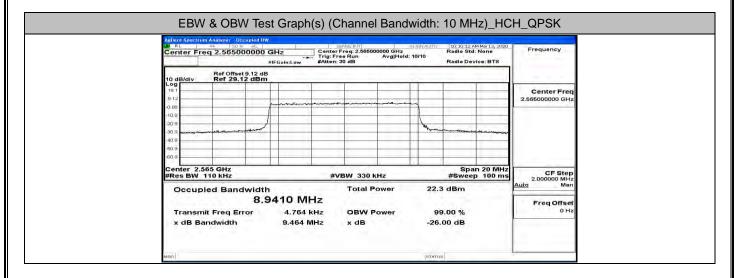


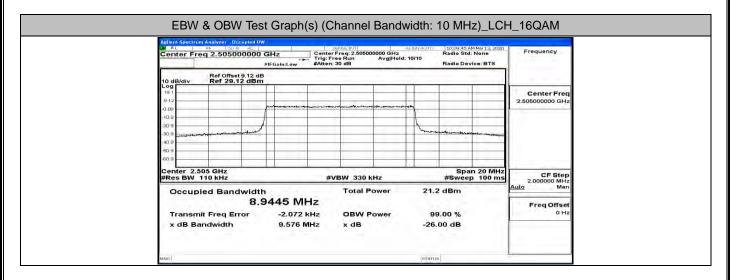


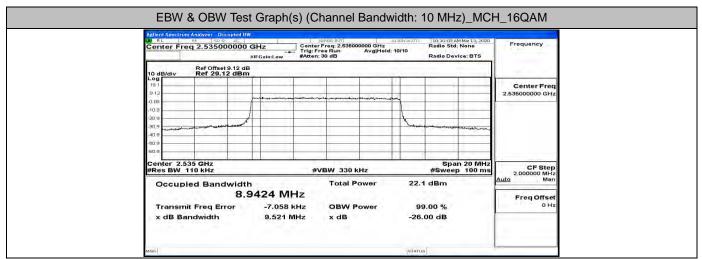


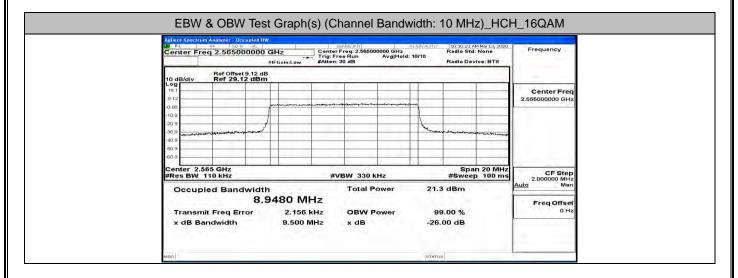


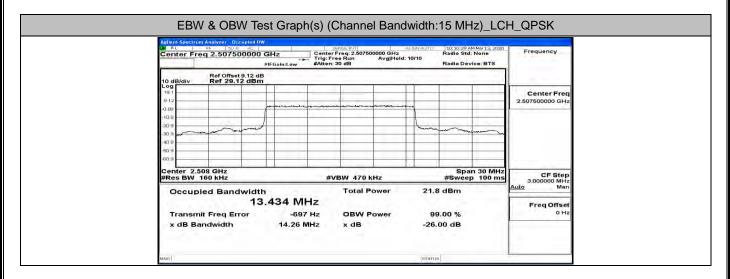


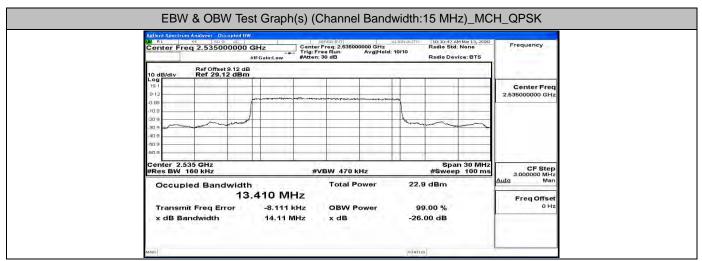


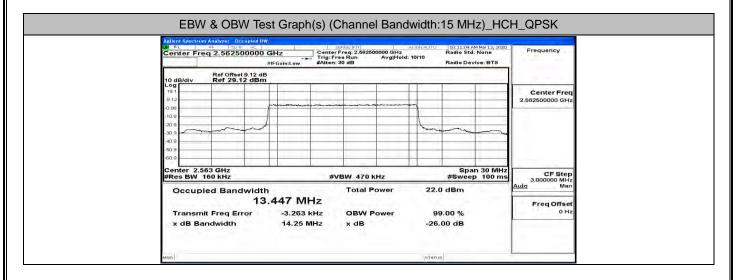


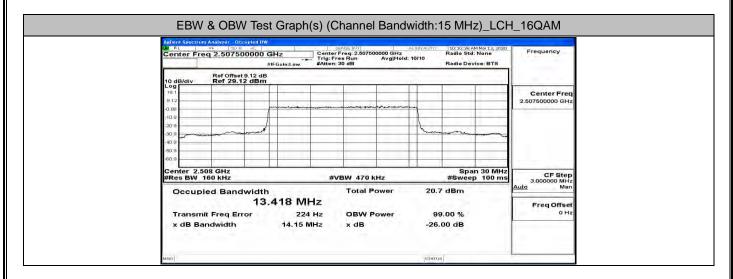


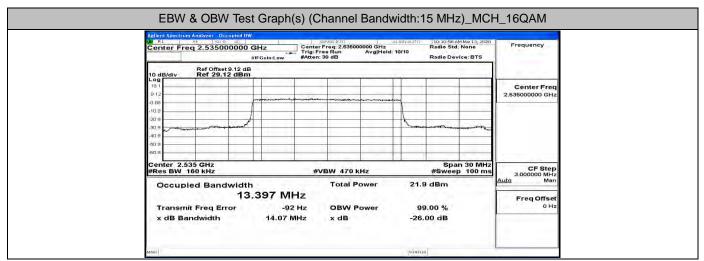


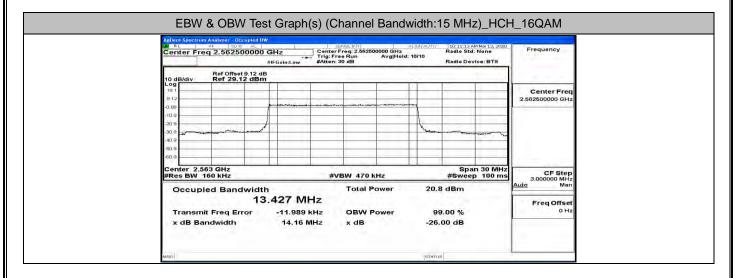


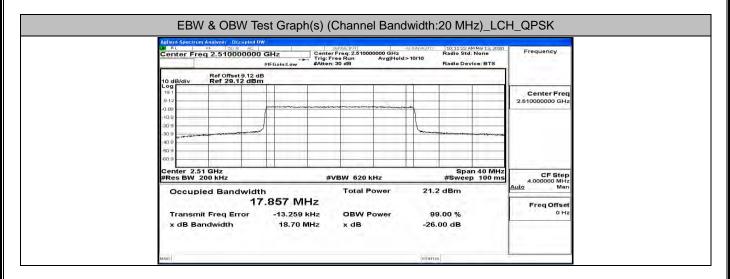


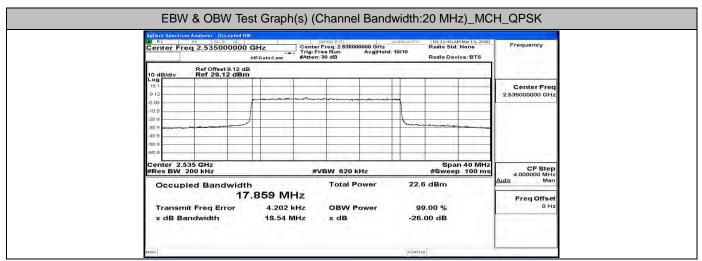


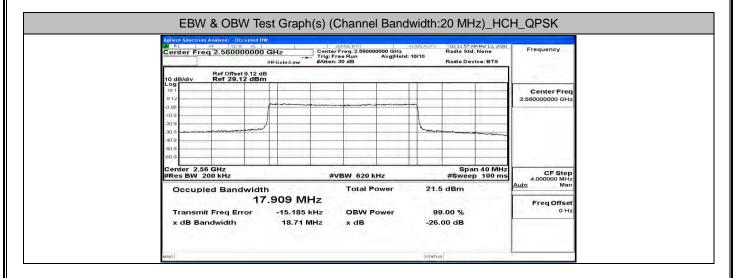


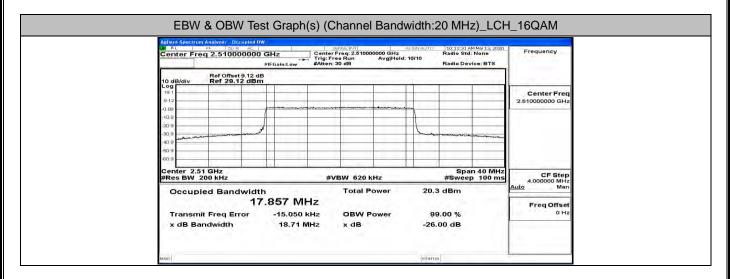


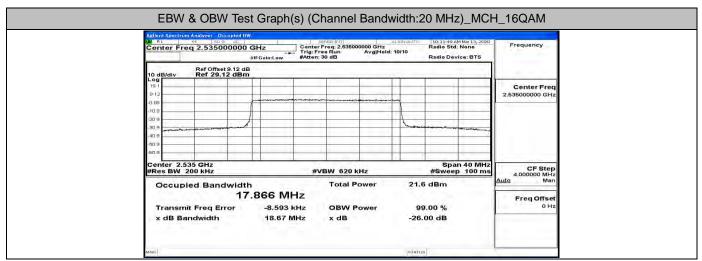


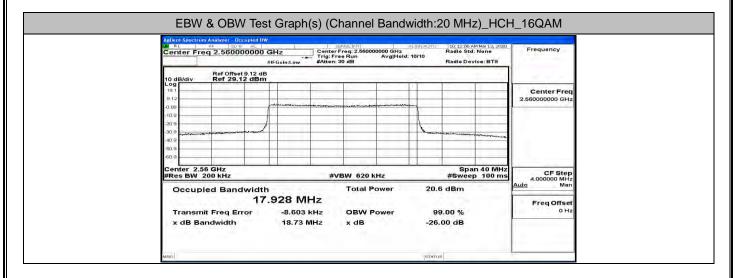




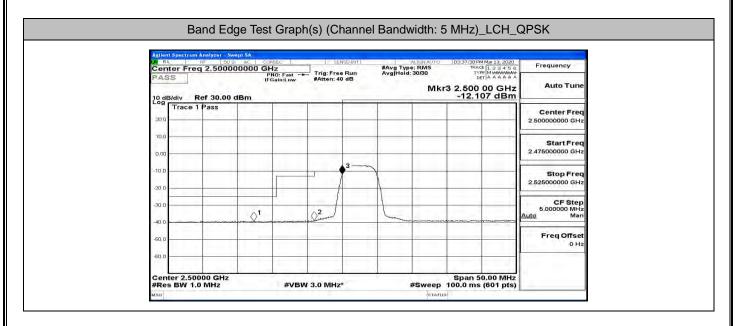


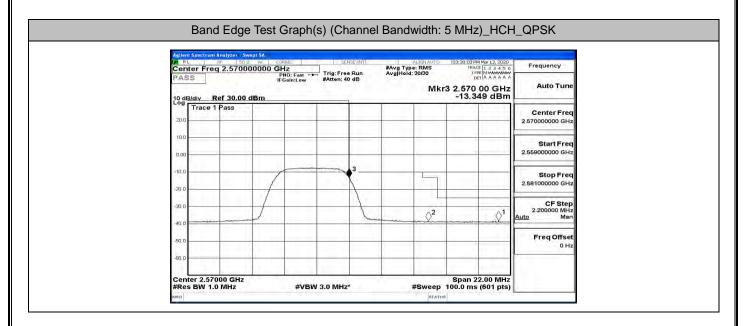


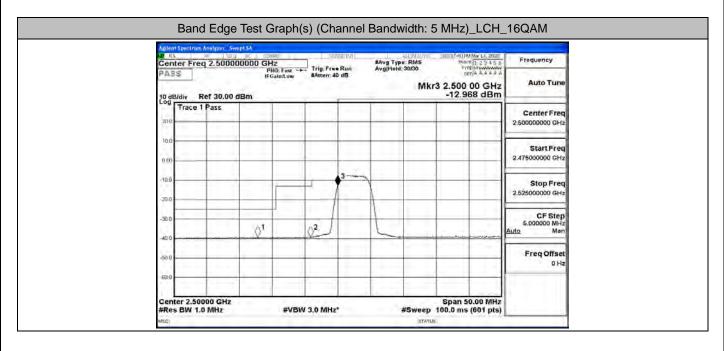


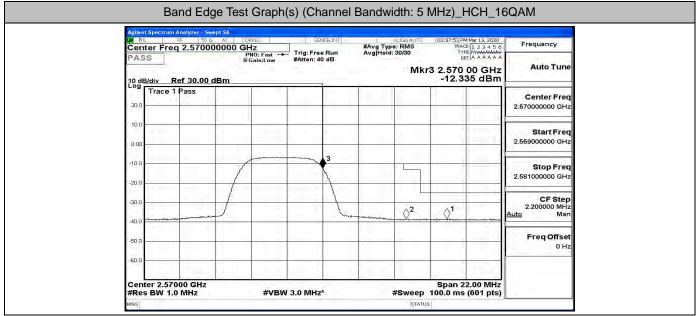


J.4 Band Edge

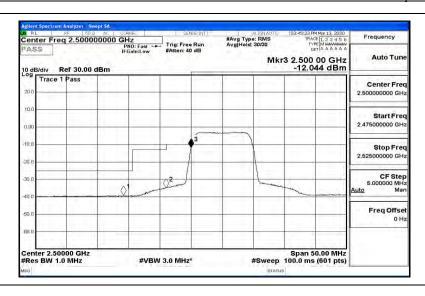


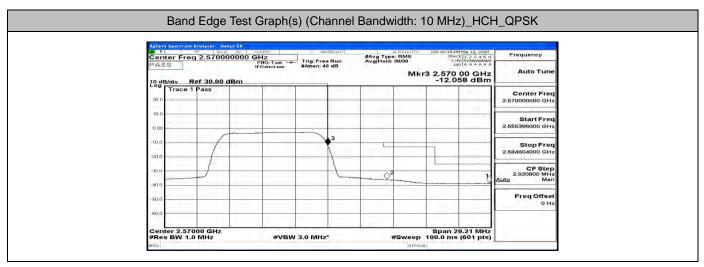


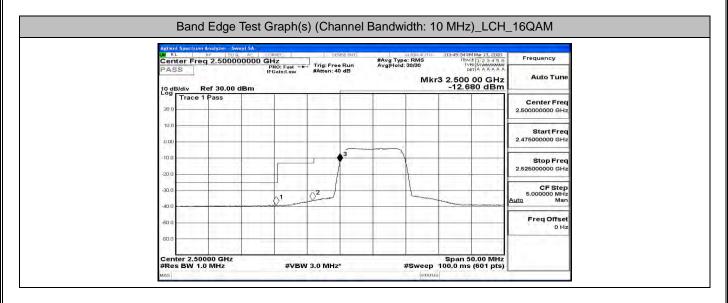


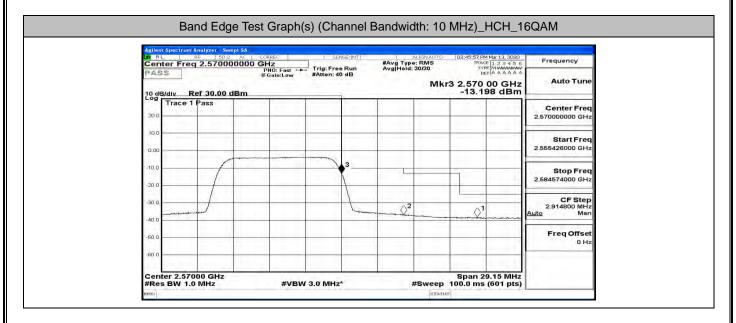


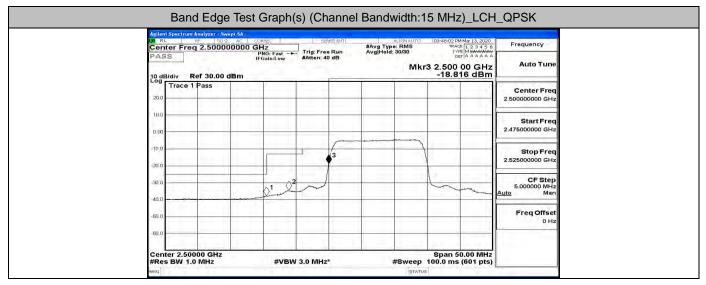
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK

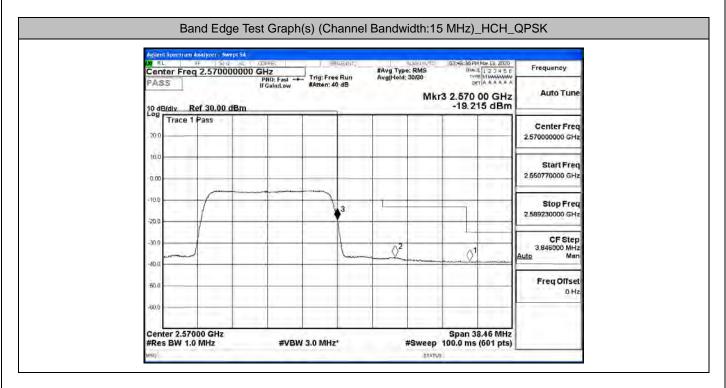


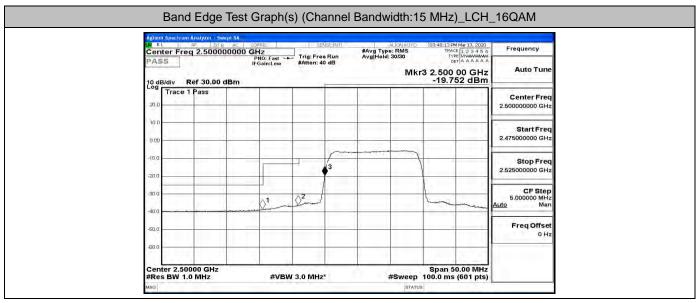


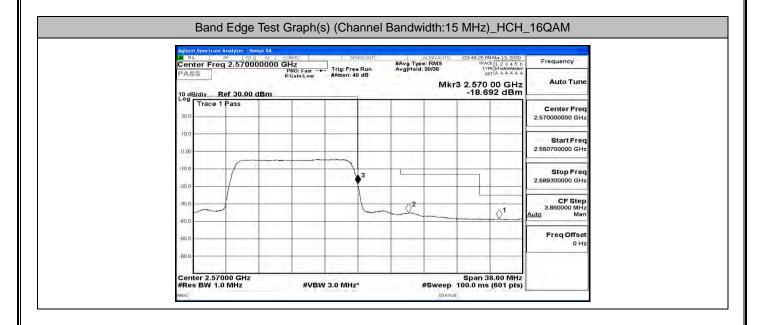


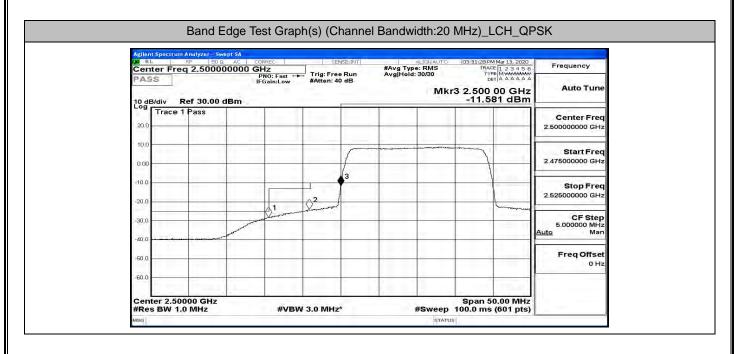


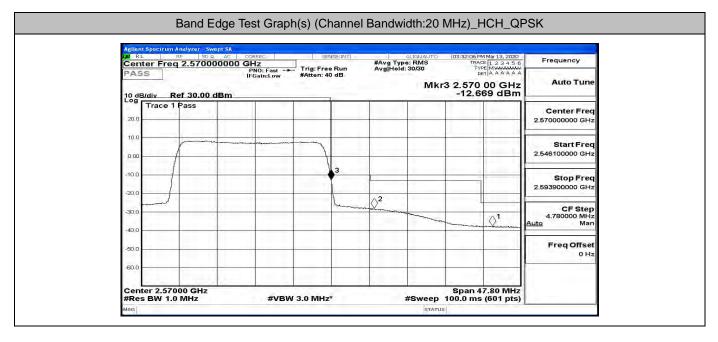


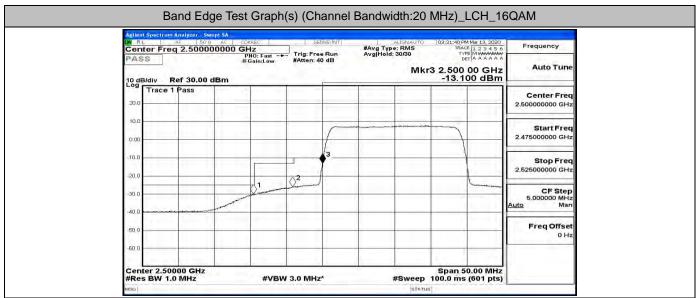


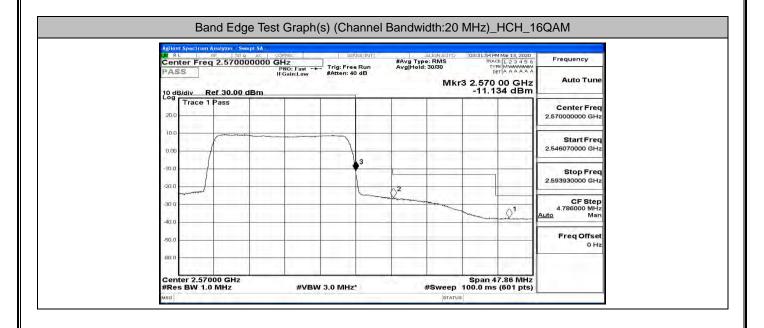






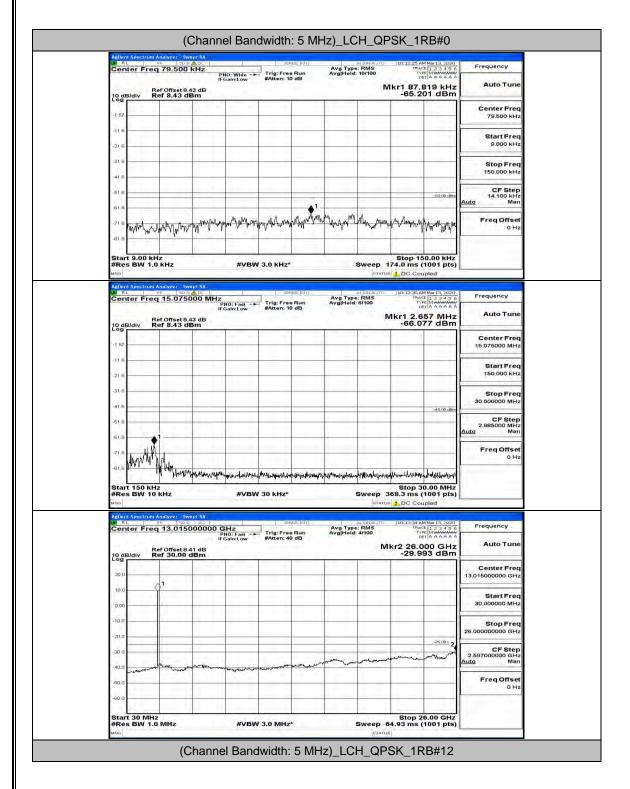


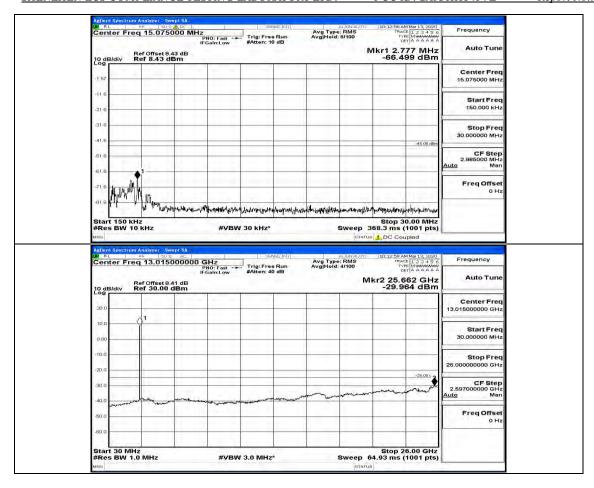


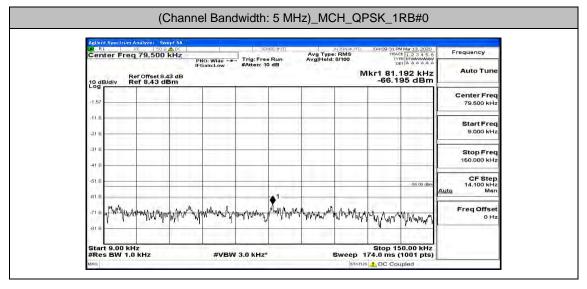


J.5 Conducted Spurious Emission

Channel Bandwidth: 5 MHz



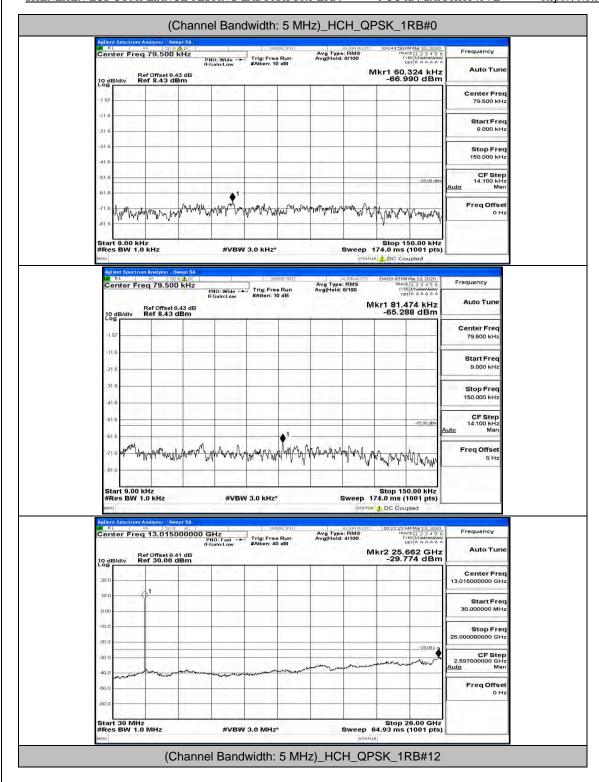




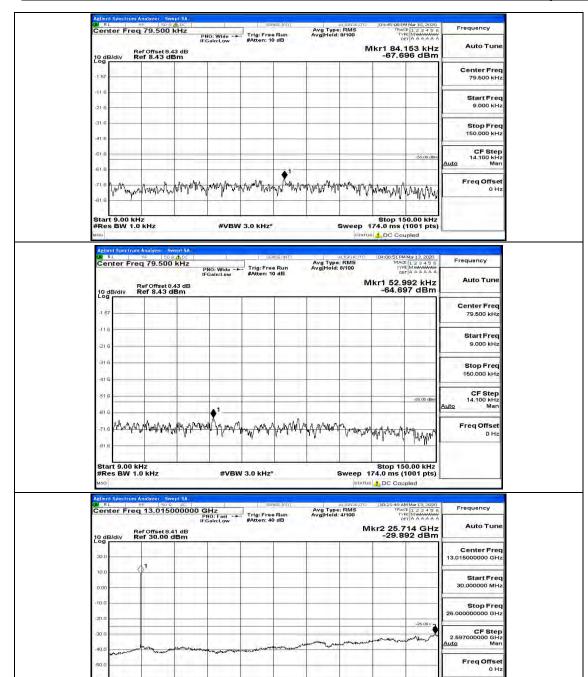
FCC ID: 2AIOHHT4P7L

Report No.: LCS191210087AEI

SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD.



(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#24



(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#0

#VBW 3.0 MHz

Start 30 MHz #Res BW 1.0 MHz

Stop 26.00 GHz Sweep 64.93 ms (1001 pts)

FCC ID: 2AIOHHT4P7L

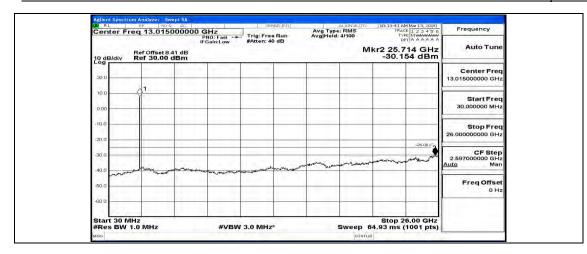
Report No.: LCS191210087AEI

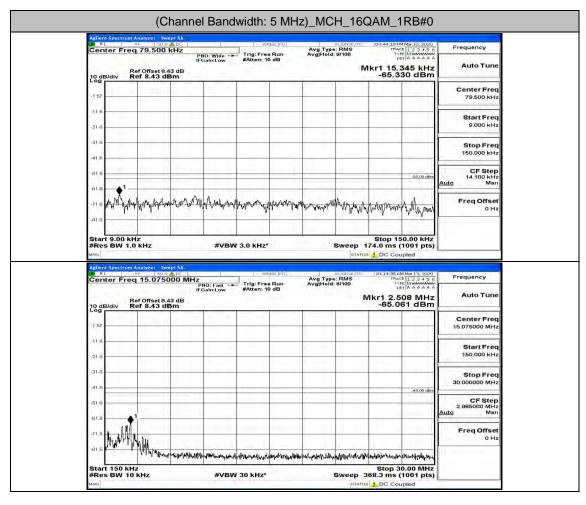
SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD.

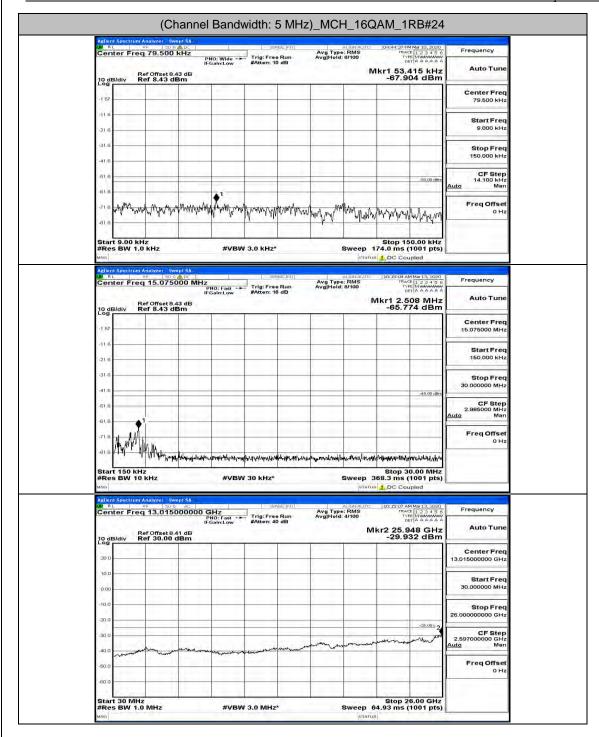
FCC ID: 2AIOHHT4P7L

Report No.: LCS191210087AEI

SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD.

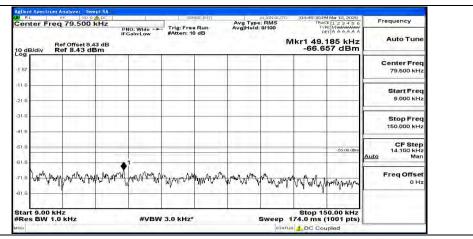


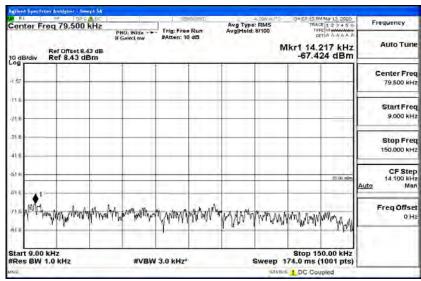




(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#0







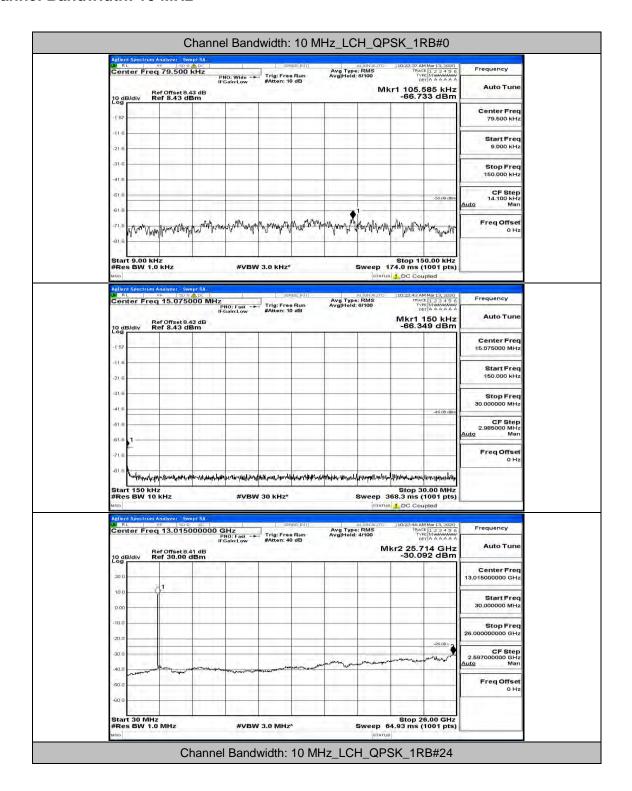


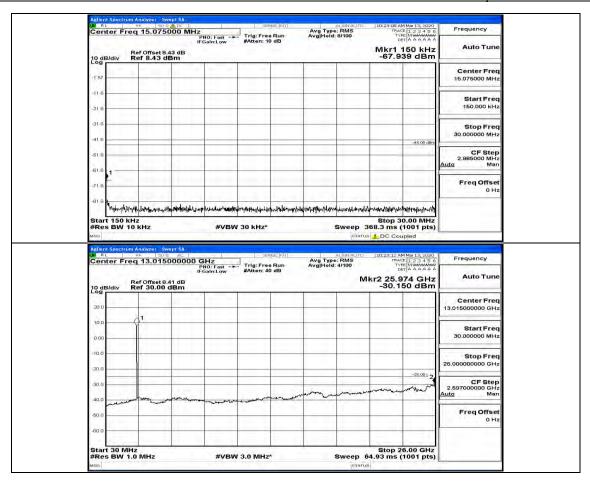
(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#24

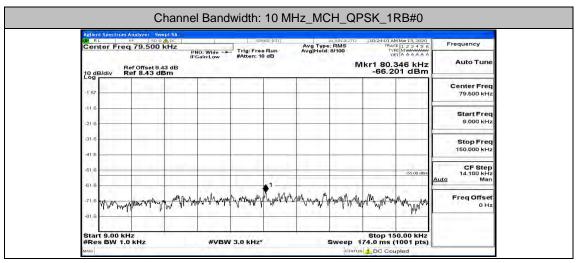
#VBW 3.0 MHz*

Stop 26.00 GHz Sweep 64.93 ms (1001 pts) Freq Offset

Channel Bandwidth: 10 MHz

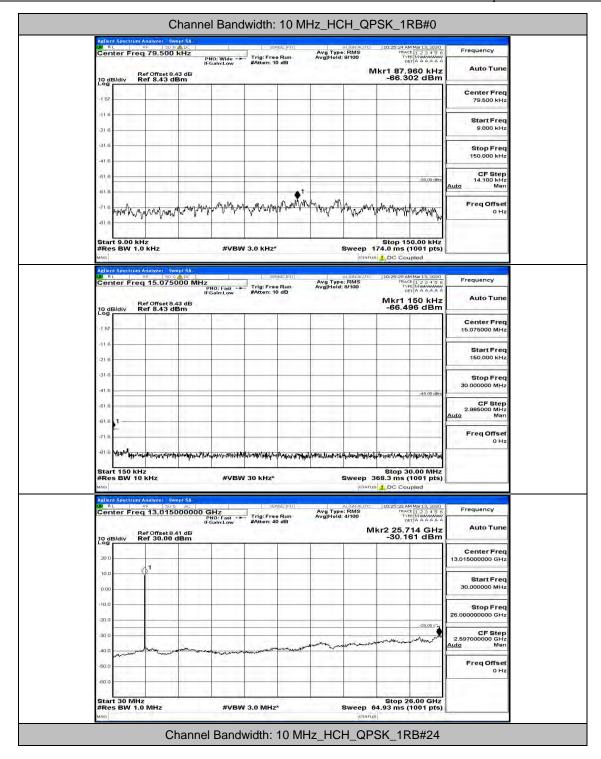


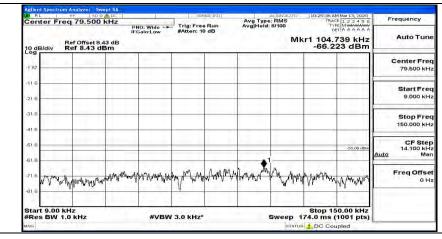




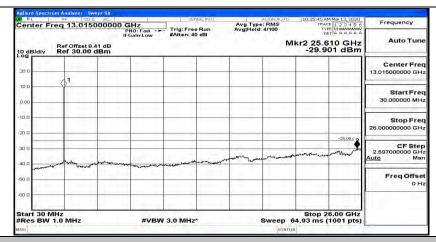
#VBW 3.0 MHz*

Start 30 MHz #Res BW 1.0 MHz Stop 26.00 GHz Sweep 64.93 ms (1001 pts)







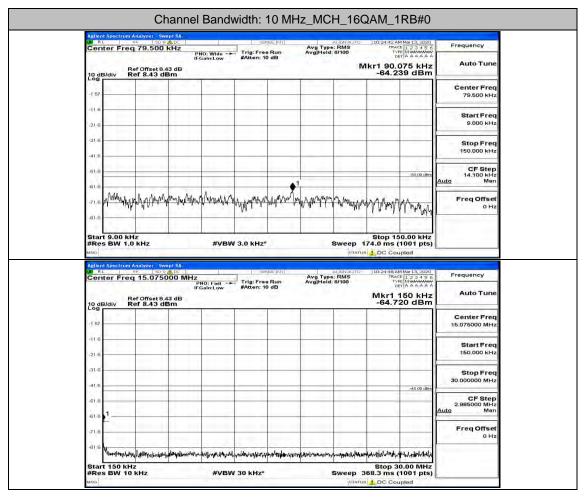


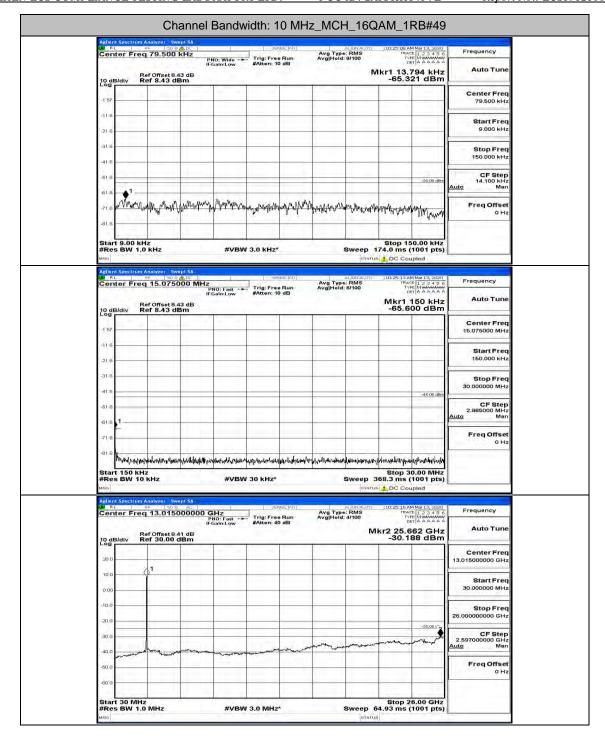
Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#0

#VBW 3.0 MHz*

Start 30 MHz #Res BW 1.0 MHz Stop 26.00 GHz Sweep 64.93 ms (1001 pts)







Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#0

