

Band 2 Appendix A Section A.2: Peak-to-Average Ratio

Test Result

Channel Bandwidth: 1.4 MHz

Channel Bandwidth: 1.4 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio (dB)	Limit (dB)	Verdict
		Size	Offset			
QPSK	LCH	1	0	3.46	<13	PASS
		1	3	3.5	<13	PASS
		1	5	3.57	<13	PASS
		3	0	3.57	<13	PASS
		3	2	3.53	<13	PASS
		3	3	3.55	<13	PASS
		6	0	4.53	<13	PASS
	MCH	1	0	3.03	<13	PASS
		1	3	2.95	<13	PASS
		1	5	2.91	<13	PASS
		3	0	3.21	<13	PASS
		3	2	3.1	<13	PASS
		3	3	3.14	<13	PASS
		6	0	4.02	<13	PASS
16QAM	LCH	1	0	2.89	<13	PASS
		1	3	2.68	<13	PASS
		1	5	2.58	<13	PASS
		3	0	3.01	<13	PASS
		3	2	2.78	<13	PASS
		3	3	2.78	<13	PASS
		6	0	3.86	<13	PASS
	MCH	1	0	4.4	<13	PASS
		1	3	4.42	<13	PASS
		1	5	4.44	<13	PASS
		3	0	4.45	<13	PASS
		3	2	4.48	<13	PASS
		3	3	4.53	<13	PASS
		6	0	5.37	<13	PASS

		6	0	4.97	<13	PASS
HCH	HCH	1	0	3.93	<13	PASS
		1	3	3.79	<13	PASS
		1	5	3.64	<13	PASS
		3	0	3.89	<13	PASS
		3	2	3.68	<13	PASS
		3	3	3.64	<13	PASS
		6	0	4.78	<13	PASS

Channel Bandwidth: 3 MHz

Channel Bandwidth: 3 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	LCH	1	0	3.41	<13	PASS
		1	7	3.55	<13	PASS
		1	14	3.71	<13	PASS
		8	0	4.36	<13	PASS
		8	4	4.38	<13	PASS
		8	7	4.49	<13	PASS
		15	0	4.77	<13	PASS
	MCH	1	0	3.18	<13	PASS
		1	7	3.02	<13	PASS
		1	14	2.96	<13	PASS
		8	0	3.96	<13	PASS
		8	4	3.78	<13	PASS
		8	7	3.87	<13	PASS
		15	0	4.36	<13	PASS
	HCH	1	0	3.26	<13	PASS
		1	7	2.81	<13	PASS
		1	14	2.46	<13	PASS
		8	0	4.13	<13	PASS
		8	4	3.8	<13	PASS
		8	7	3.76	<13	PASS
		15	0	4.44	<13	PASS
16QAM	LCH	1	0	4.3	<13	PASS
		1	7	4.58	<13	PASS
		1	14	4.62	<13	PASS
		8	0	5.03	<13	PASS
		8	4	5.09	<13	PASS
		8	7	5.21	<13	PASS
		15	0	5.65	<13	PASS

		1	0	4.25	<13	PASS
		1	7	4.08	<13	PASS
		1	14	3.96	<13	PASS
		8	0	4.78	<13	PASS
		8	4	4.62	<13	PASS
		8	7	4.65	<13	PASS
		15	0	5.29	<13	PASS
		1	0	4.28	<13	PASS
		1	7	3.94	<13	PASS
		1	14	3.6	<13	PASS
		8	0	4.9	<13	PASS
		8	4	4.71	<13	PASS
		8	7	4.63	<13	PASS
		15	0	5.29	<13	PASS

Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	LCH	1	0	3.35	<13	PASS
		1	12	3.58	<13	PASS
		1	24	3.83	<13	PASS
		12	0	4.45	<13	PASS
		12	6	4.44	<13	PASS
		12	13	4.6	<13	PASS
		25	0	4.86	<13	PASS
	MCH	1	0	3.22	<13	PASS
		1	12	2.96	<13	PASS
		1	24	2.81	<13	PASS
		12	0	4.03	<13	PASS
		12	6	3.79	<13	PASS
		12	13	3.8	<13	PASS
		25	0	4.39	<13	PASS
	HCH	1	0	3.82	<13	PASS
		1	12	3.24	<13	PASS
		1	24	2.58	<13	PASS
		12	0	4.51	<13	PASS
		12	6	4.16	<13	PASS
		12	13	3.92	<13	PASS
		25	0	4.55	<13	PASS
16QAM	LCH	1	0	4.27	<13	PASS

		1	12	4.55	<13	PASS
		1	24	4.84	<13	PASS
		12	0	5.29	<13	PASS
		12	6	5.33	<13	PASS
		12	13	5.42	<13	PASS
		25	0	5.57	<13	PASS
	MCH	1	0	4.28	<13	PASS
		1	12	4	<13	PASS
		1	24	3.86	<13	PASS
		12	0	4.96	<13	PASS
		12	6	4.76	<13	PASS
		12	13	4.69	<13	PASS
		25	0	5.22	<13	PASS
	HCH	1	0	4.5	<13	PASS
		1	12	4.13	<13	PASS
		1	24	3.56	<13	PASS
		12	0	5.49	<13	PASS
		12	6	5.23	<13	PASS
		12	13	4.99	<13	PASS
		25	0	5.43	<13	PASS

Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	LCH	1	0	3.37	<13	PASS
		1	24	4	<13	PASS
		1	49	4.25	<13	PASS
		25	0	4.79	<13	PASS
		25	12	4.77	<13	PASS
		25	25	4.95	<13	PASS
		50	0	5.11	<13	PASS
QPSK	MCH	1	0	3.59	<13	PASS
		1	24	2.96	<13	PASS
		1	49	2.72	<13	PASS
		25	0	4.44	<13	PASS
		25	12	4.02	<13	PASS
		25	25	4.05	<13	PASS
		50	0	4.65	<13	PASS
QPSK	HCH	1	0	3.73	<13	PASS
		1	24	3.6	<13	PASS

		1	49	2.45	<13	PASS
		25	0	4.84	<13	PASS
		25	12	4.63	<13	PASS
		25	25	4.41	<13	PASS
		50	0	4.94	<13	PASS
16QAM	LCH	1	0	4.3	<13	PASS
		1	24	4.88	<13	PASS
		1	49	5.15	<13	PASS
		25	0	5.54	<13	PASS
		25	12	5.62	<13	PASS
		25	25	5.77	<13	PASS
		50	0	5.79	<13	PASS
	MCH	1	0	4.54	<13	PASS
		1	24	4.01	<13	PASS
		1	49	3.79	<13	PASS
		25	0	5.33	<13	PASS
		25	12	4.87	<13	PASS
		25	25	4.89	<13	PASS
		50	0	5.4	<13	PASS
	HCH	1	0	4.7	<13	PASS
		1	24	4.6	<13	PASS
		1	49	3.57	<13	PASS
		25	0	5.64	<13	PASS
		25	12	5.52	<13	PASS
		25	25	5.3	<13	PASS
		50	0	5.71	<13	PASS

Channel Bandwidth: 15 MHz

Channel Bandwidth: 15 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	LCH	1	0	8.68	<13	PASS
		1	37	4.19	<13	PASS
		1	74	9.51	<13	PASS
		37	0	4.53	<13	PASS
		37	18	4.95	<13	PASS
		37	38	4.64	<13	PASS
		75	0	5	<13	PASS
	MCH	1	0	8.15	<13	PASS
		1	37	2.98	<13	PASS
		1	74	11.29	<13	PASS

		37	0	4.38	<13	PASS
		37	18	4.24	<13	PASS
		37	38	4.44	<13	PASS
		75	0	4.8	<13	PASS
	HCH	1	0	8.67	<13	PASS
		1	37	3.94	<13	PASS
		1	74	11.42	<13	PASS
16QAM	LCH	37	0	4.39	<13	PASS
		37	18	4.83	<13	PASS
		37	38	4.62	<13	PASS
		75	0	4.99	<13	PASS
	MCH	1	0	8.63	<13	PASS
		1	37	5.22	<13	PASS
		1	74	10.3	<13	PASS
	HCH	37	0	5.65	<13	PASS
		37	18	5.75	<13	PASS
		37	38	5.88	<13	PASS
		75	0	6.1	<13	PASS

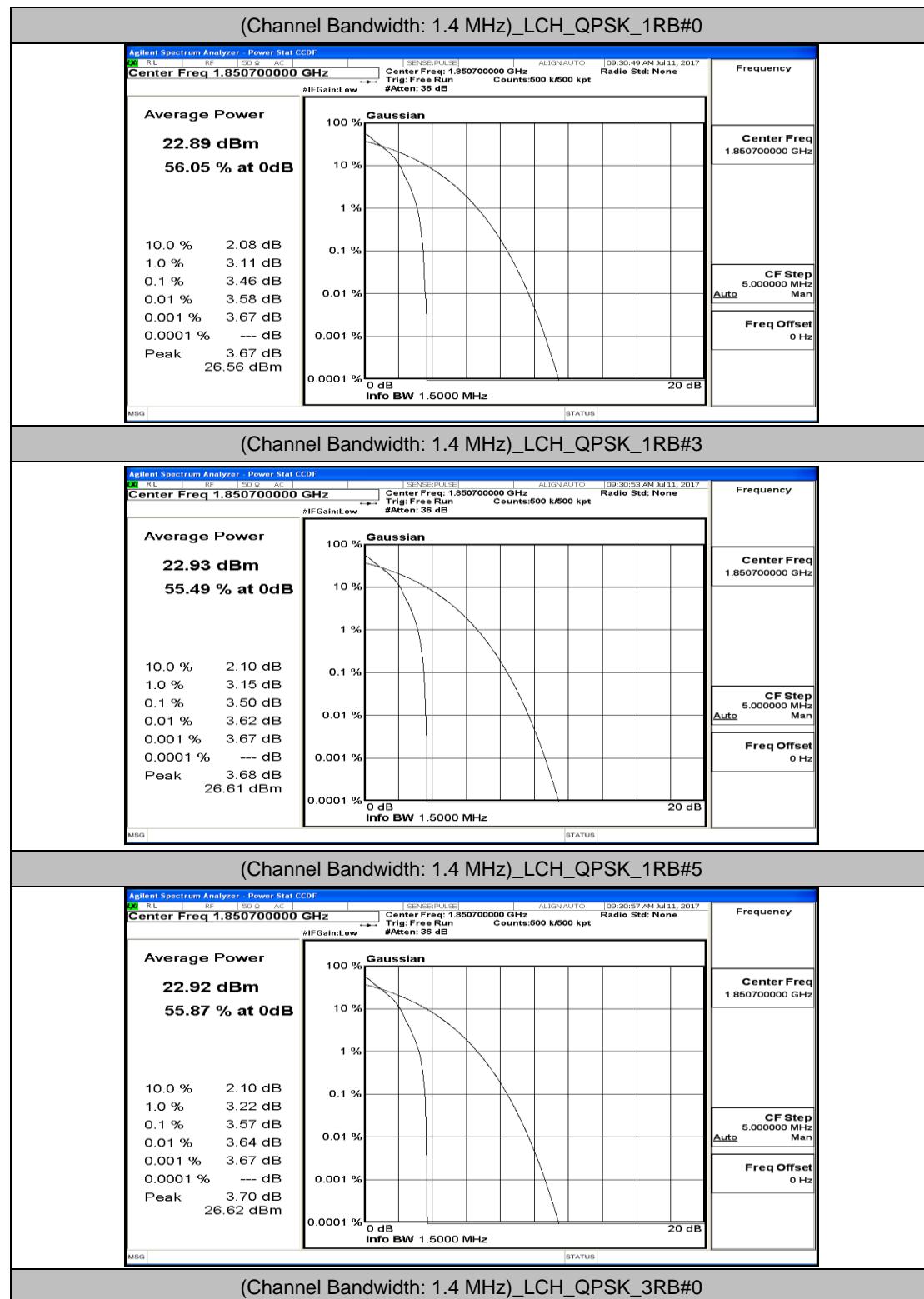
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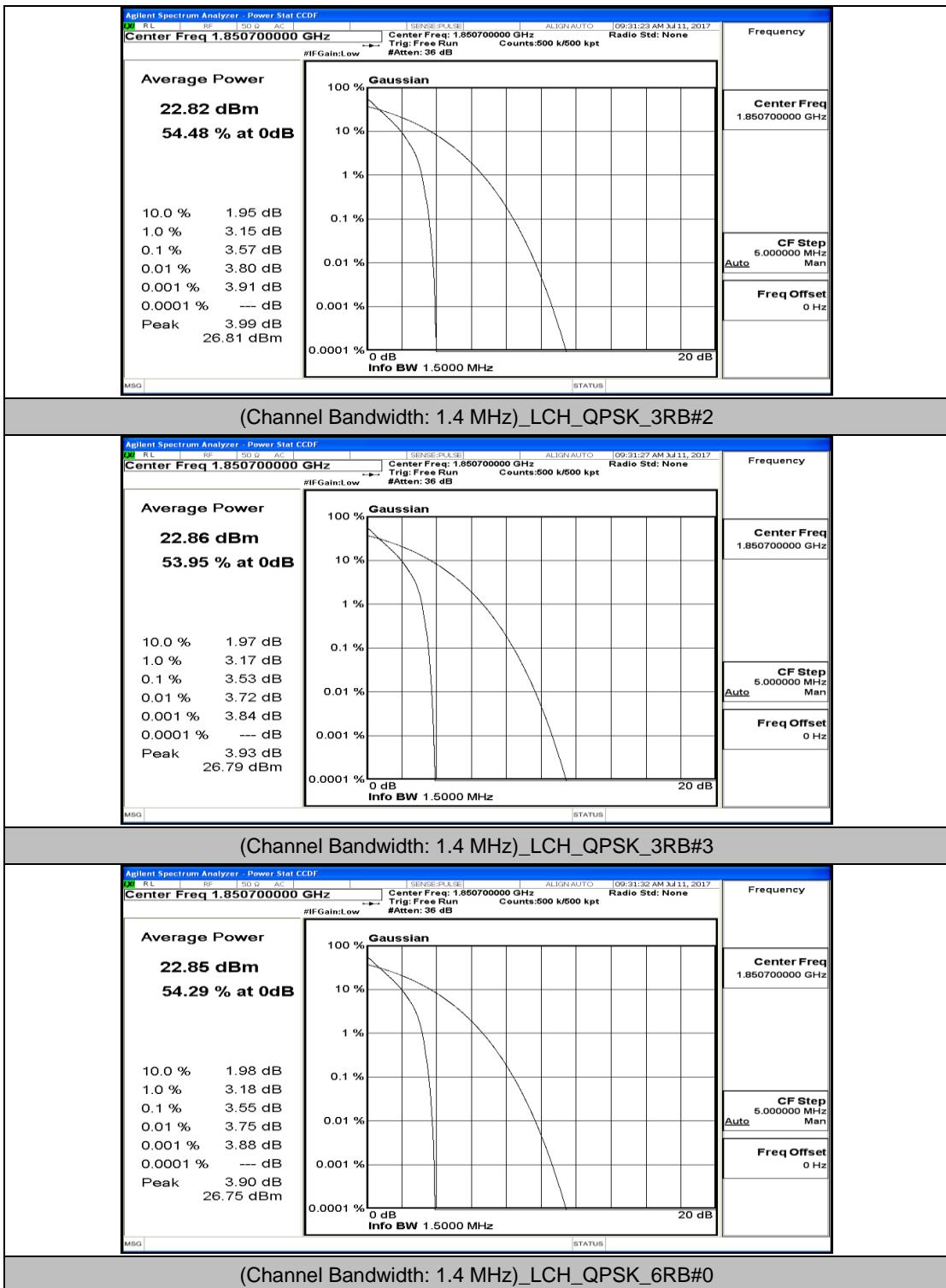
Channel Bandwidth: 20 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	LCH	1	0	9.97	<13	PASS
		1	49	4.24	<13	PASS
		1	99	9.73	<13	PASS
		50	0	5.45	<13	PASS

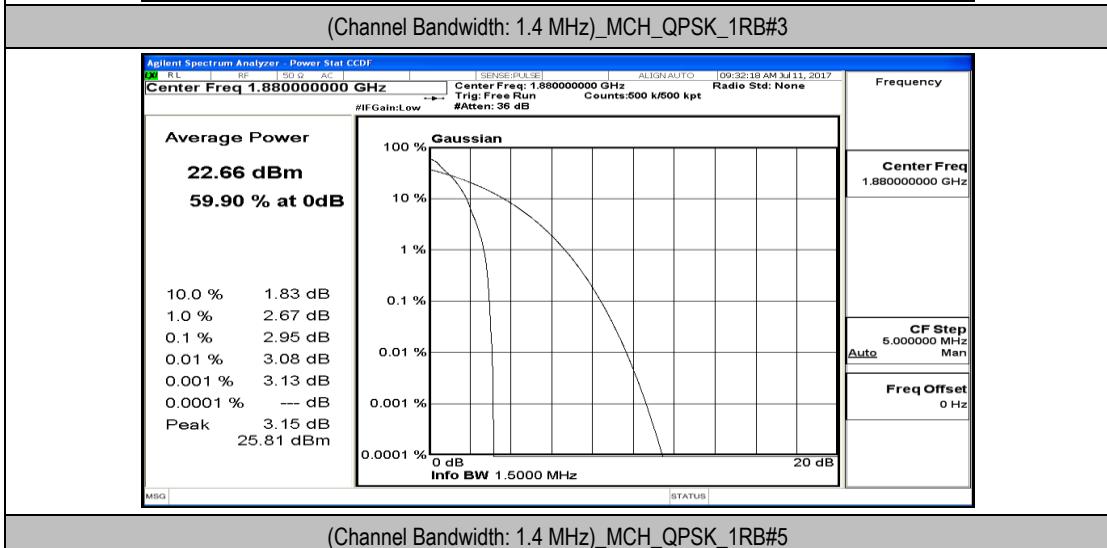
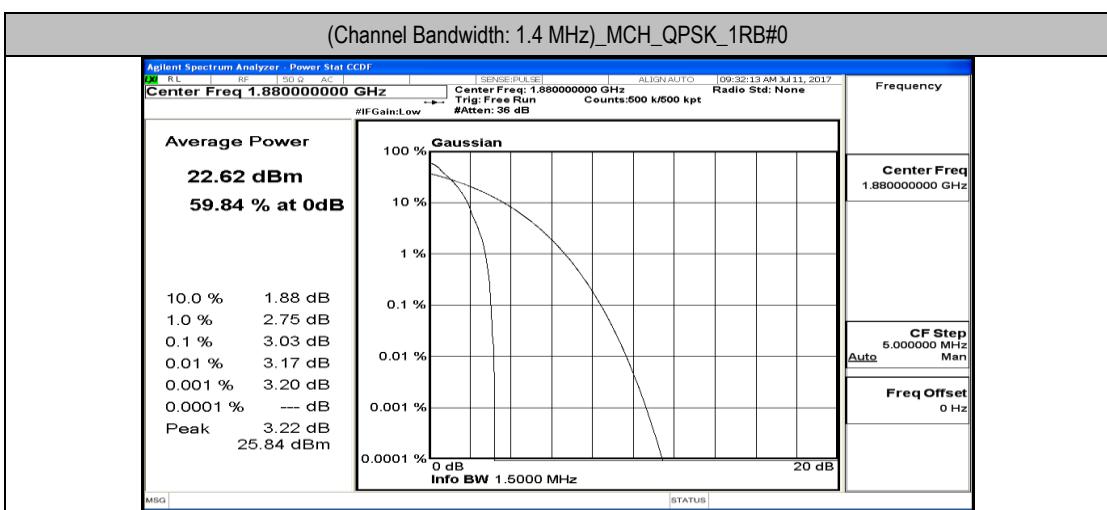
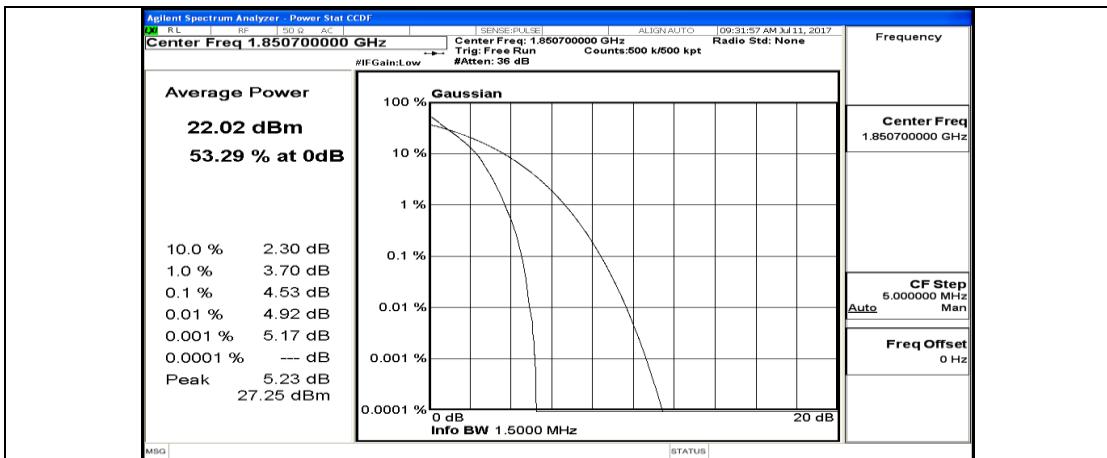
		50	25	5.25	<13	PASS
		50	50	5.73	<13	PASS
		100	0	5.75	<13	PASS
	MCH	1	0	10.42	<13	PASS
		1	49	2.95	<13	PASS
		1	99	9.39	<13	PASS
		50	0	5.18	<13	PASS
		50	25	4.65	<13	PASS
	HCH	50	50	5.54	<13	PASS
		100	0	5.7	<13	PASS
		1	0	8.7	<13	PASS
	LCH	1	49	3.88	<13	PASS
		1	99	9.55	<13	PASS
		50	0	5.33	<13	PASS
		50	25	5.01	<13	PASS
		50	50	5.74	<13	PASS
		100	0	5.77	<13	PASS
		1	0	8.91	<13	PASS
16QAM	MCH	1	49	5.23	<13	PASS
		1	99	9.5	<13	PASS
		50	0	6.43	<13	PASS
		50	25	5.99	<13	PASS
		50	50	6.64	<13	PASS
		100	0	6.71	<13	PASS
		1	0	10.73	<13	PASS
	HCH	1	49	3.95	<13	PASS
		1	99	9.28	<13	PASS
		50	0	6.18	<13	PASS
		50	25	5.42	<13	PASS
		50	50	6.3	<13	PASS
		100	0	6.52	<13	PASS
		1	0	8.46	<13	PASS
	LCH	1	49	4.63	<13	PASS
		1	99	9.87	<13	PASS
		50	0	6.32	<13	PASS
		50	25	5.74	<13	PASS
		50	50	6.52	<13	PASS
		100	0	6.57	<13	PASS
		1	0	8.46	<13	PASS

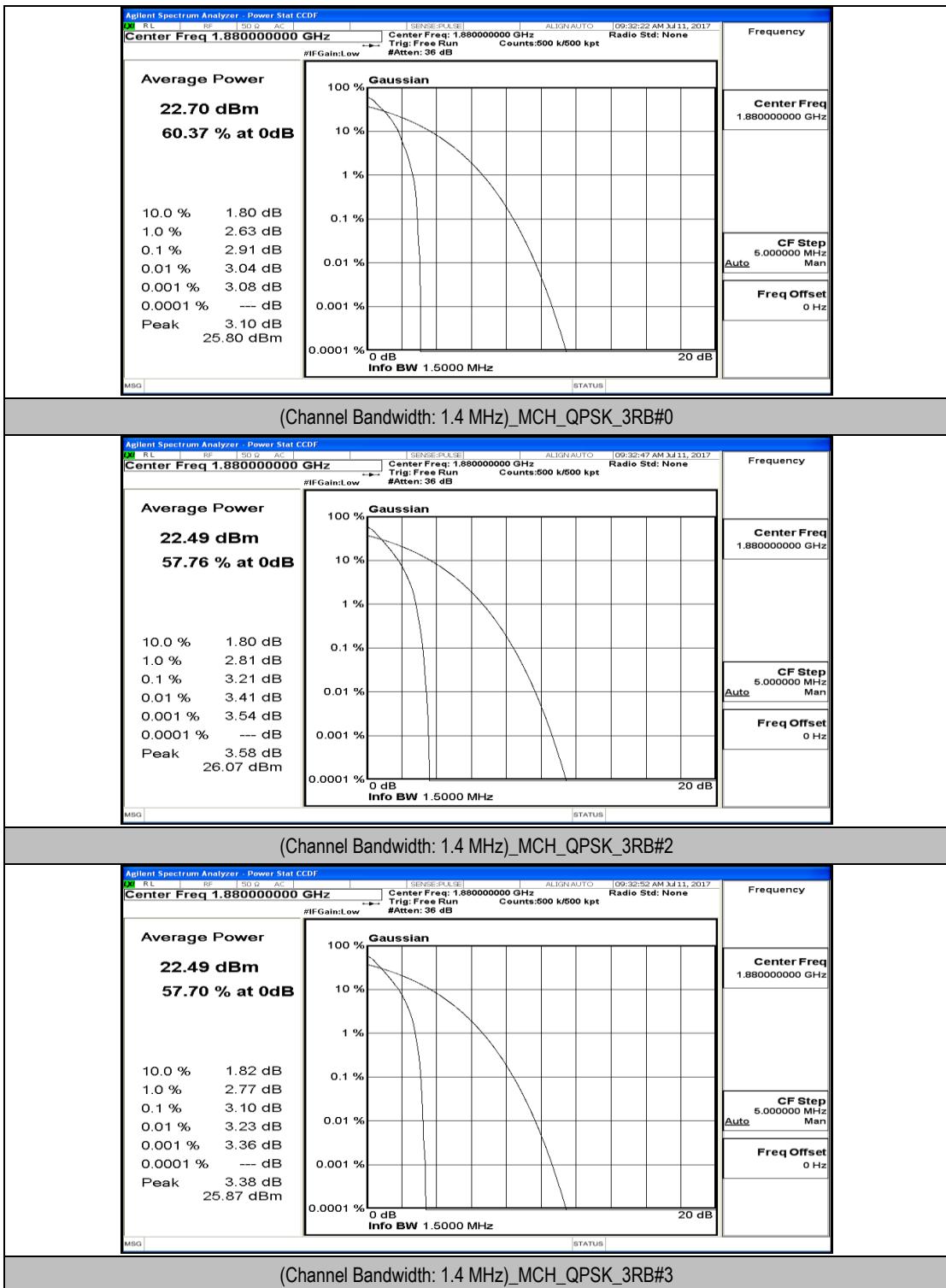
Test Graphs

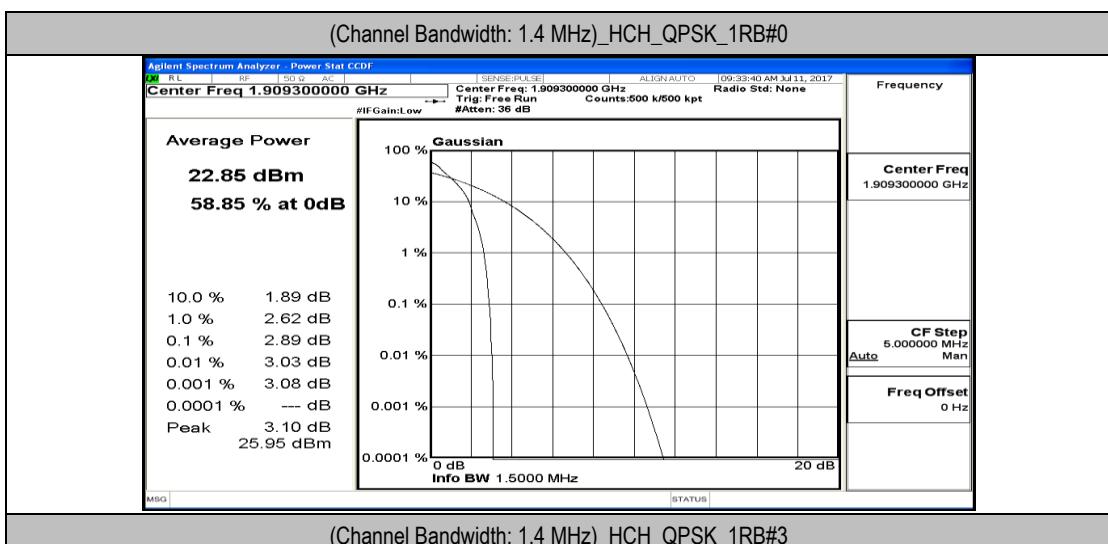
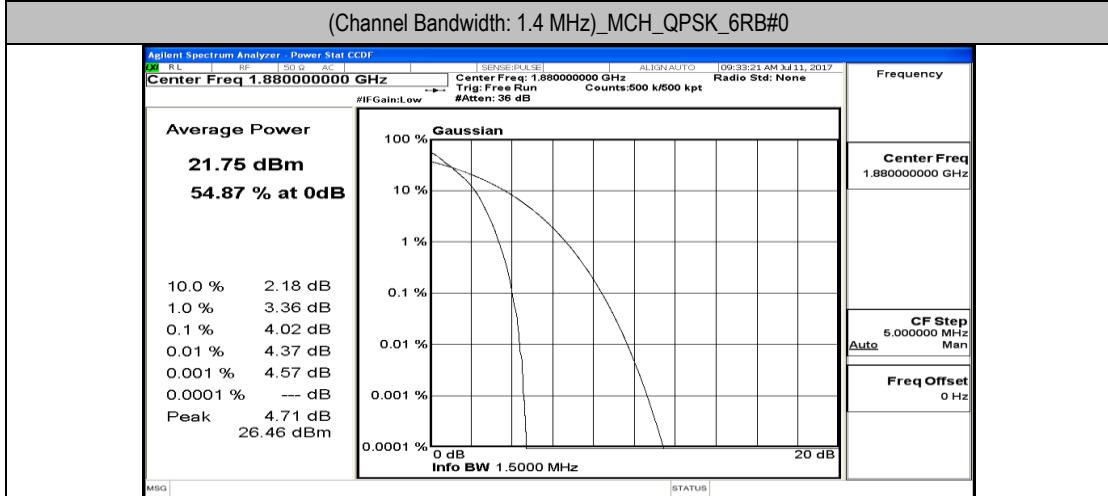
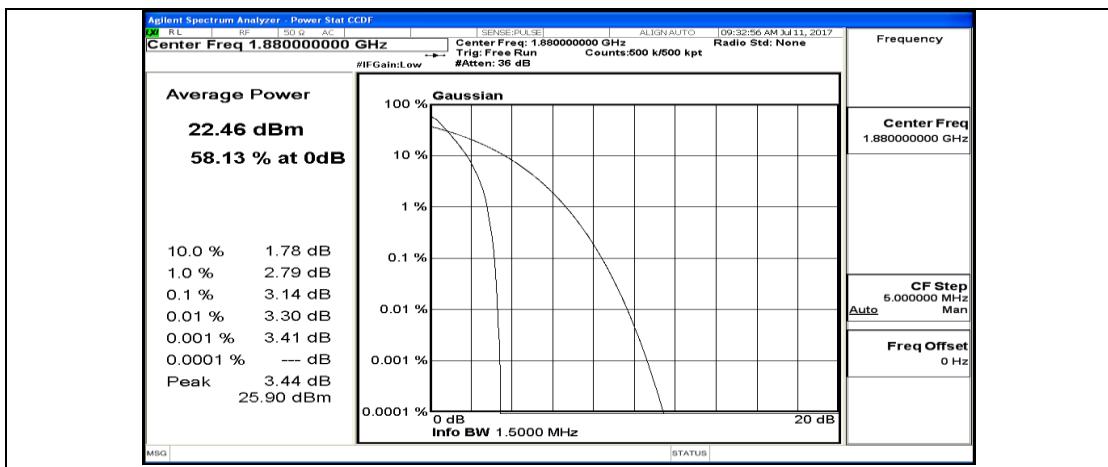
Channel Bandwidth: 1.4 MHz



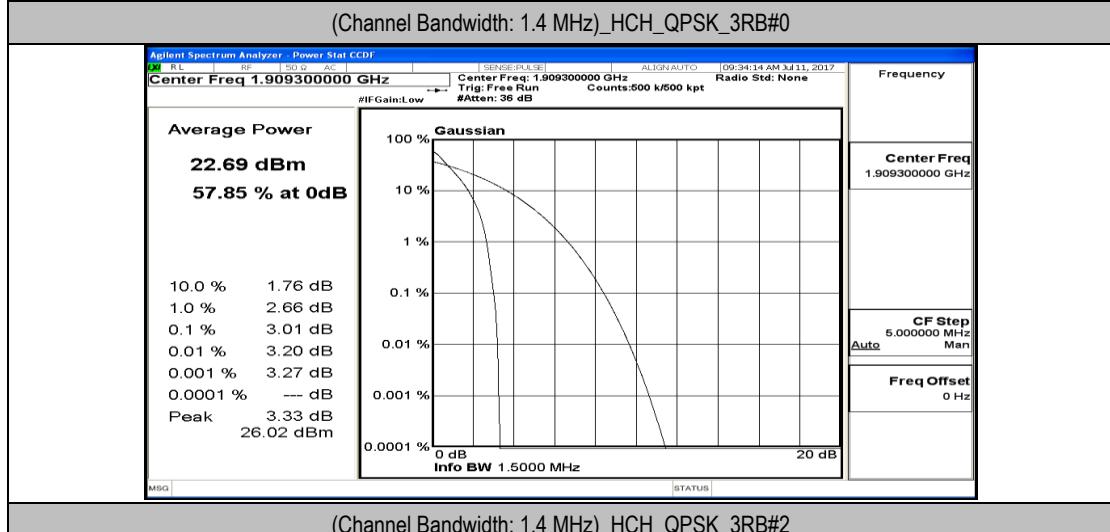
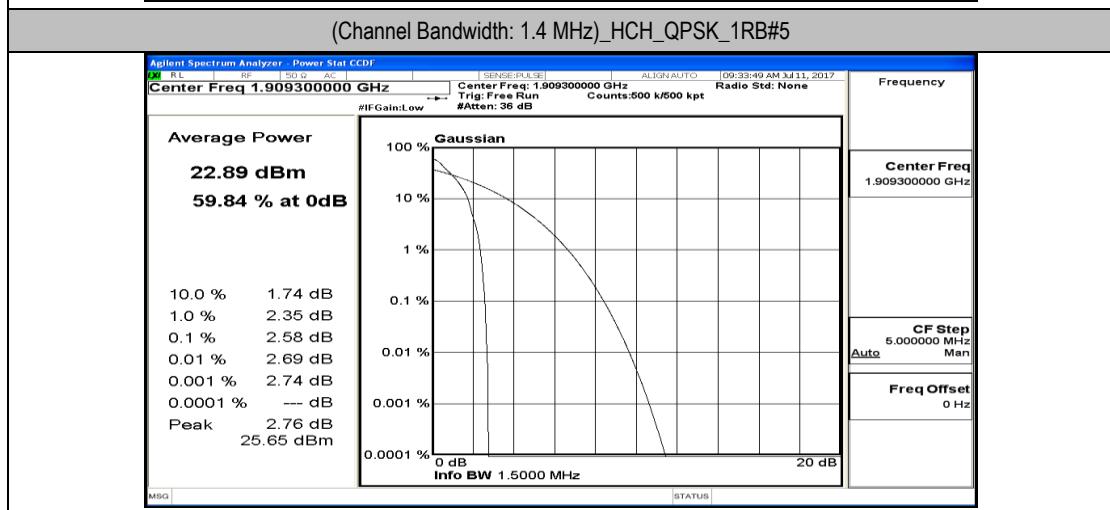
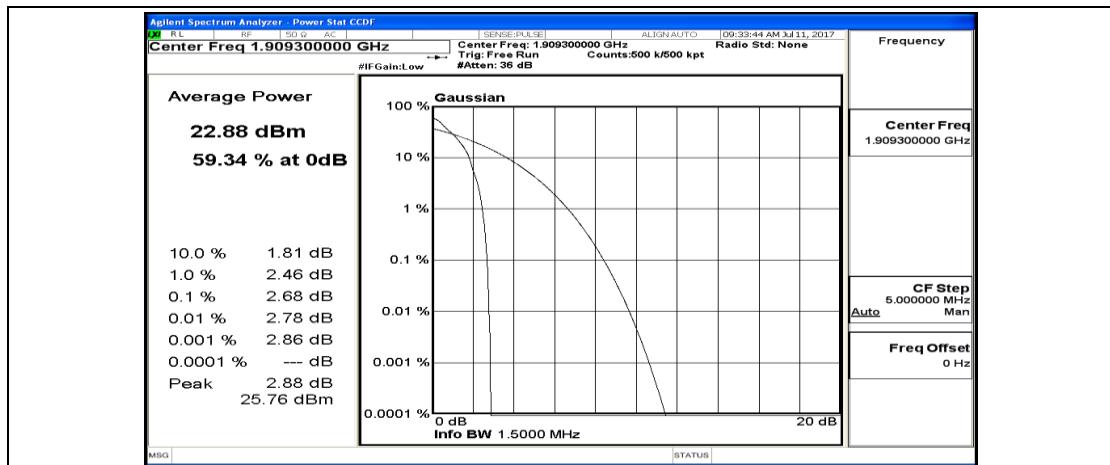


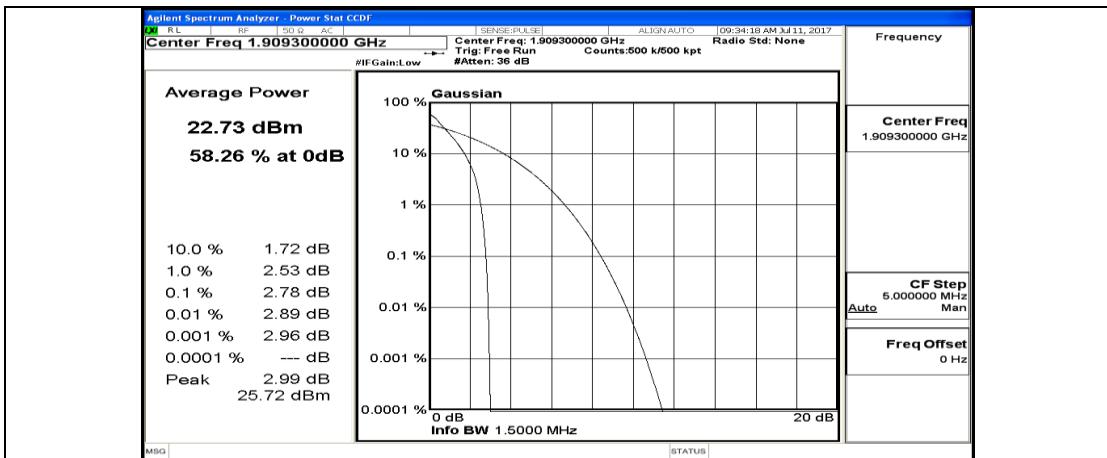




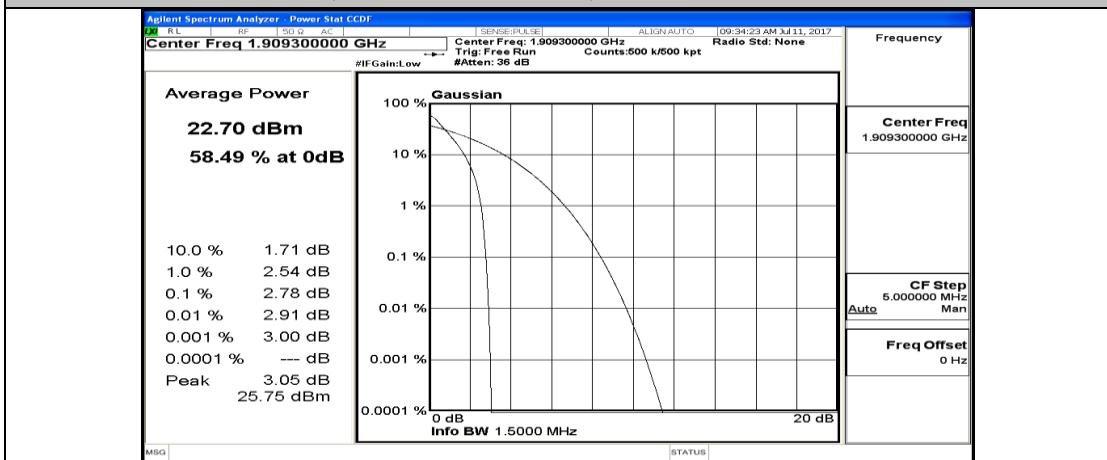


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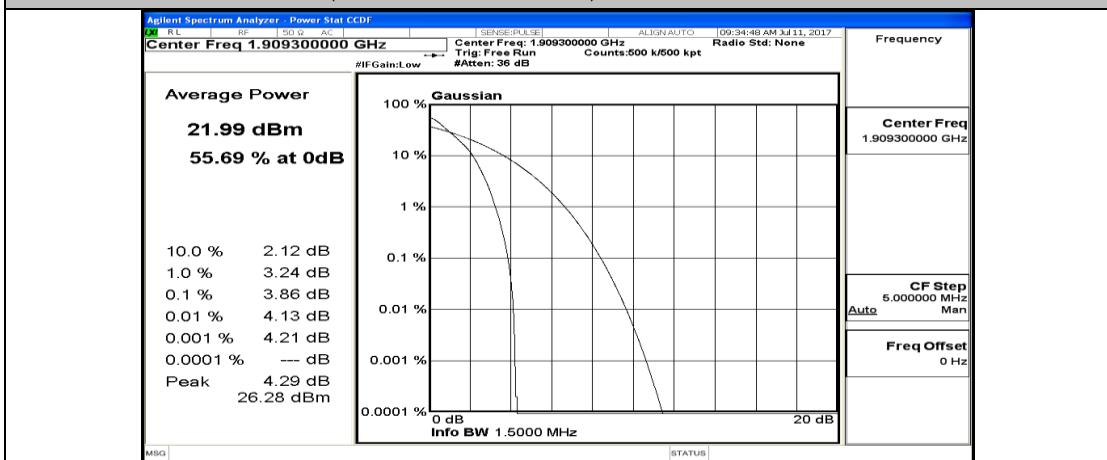




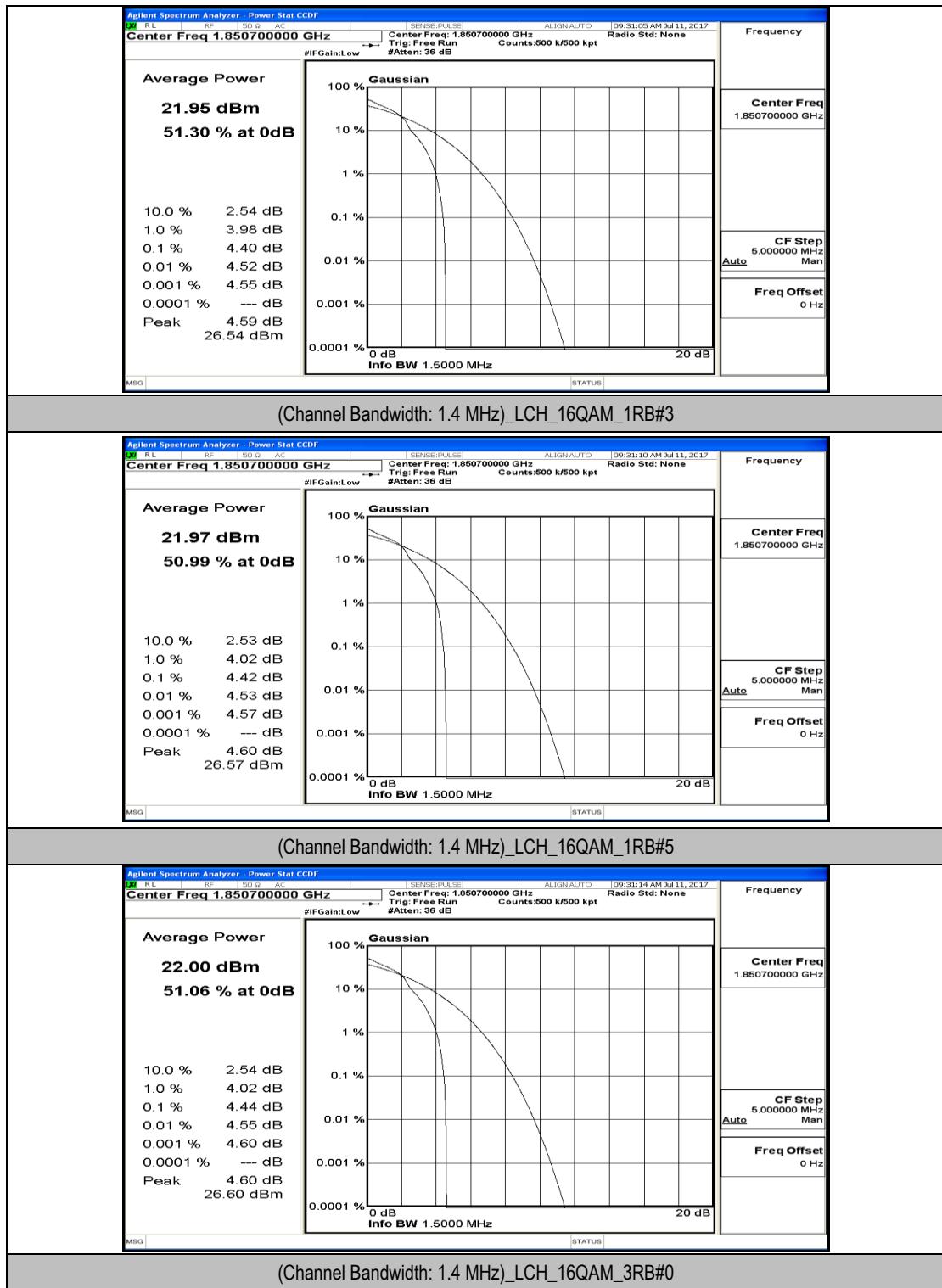
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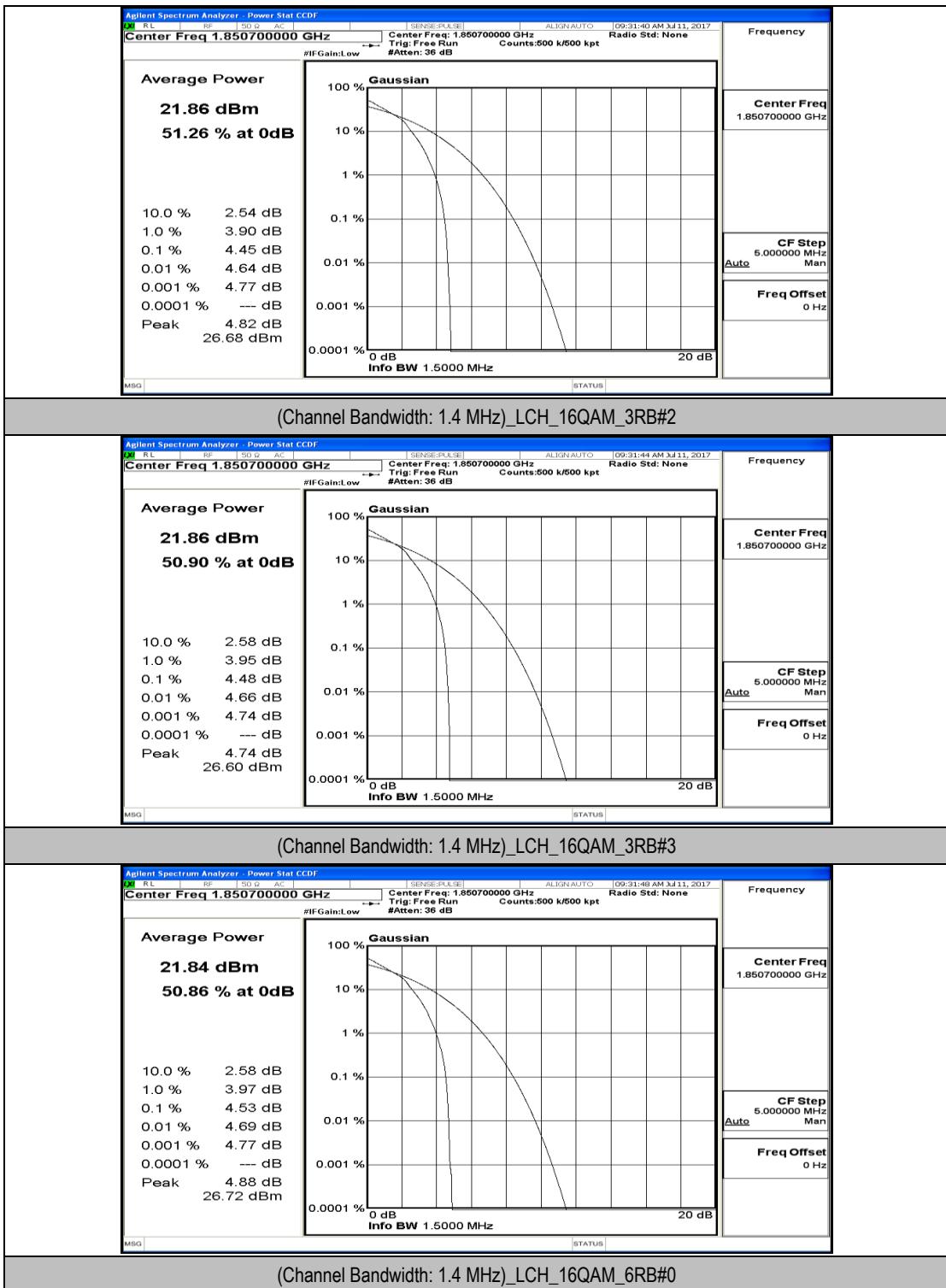


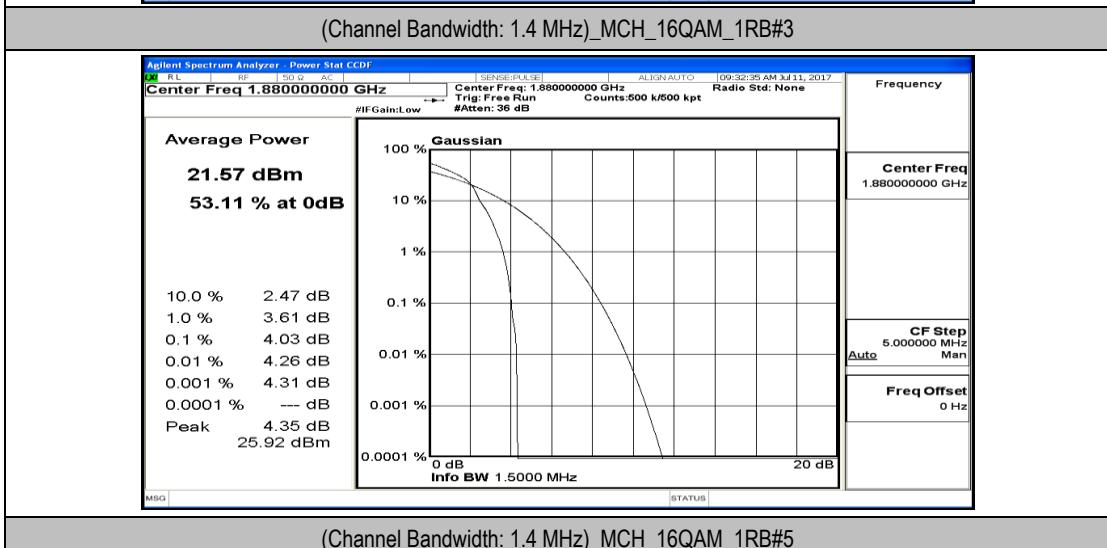
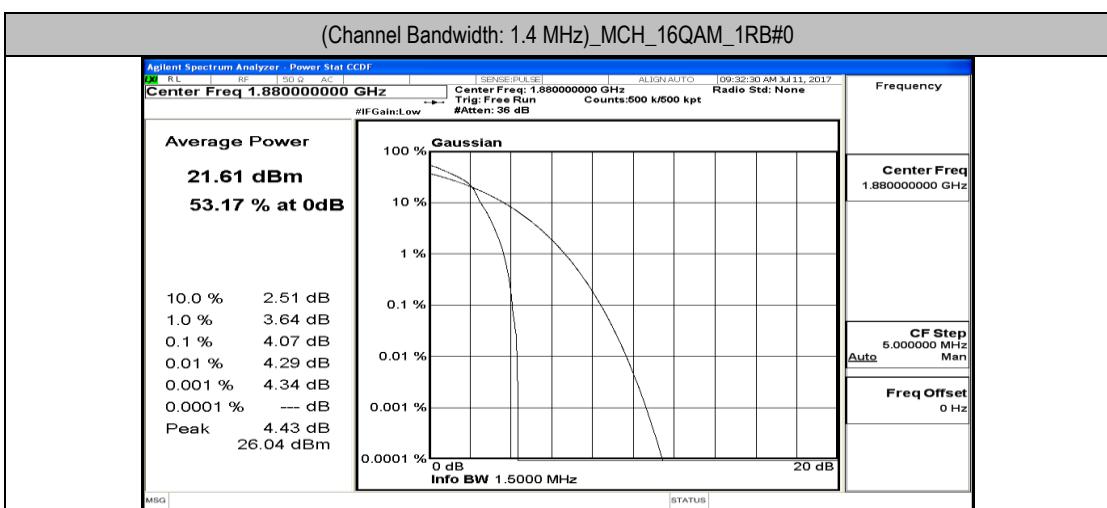
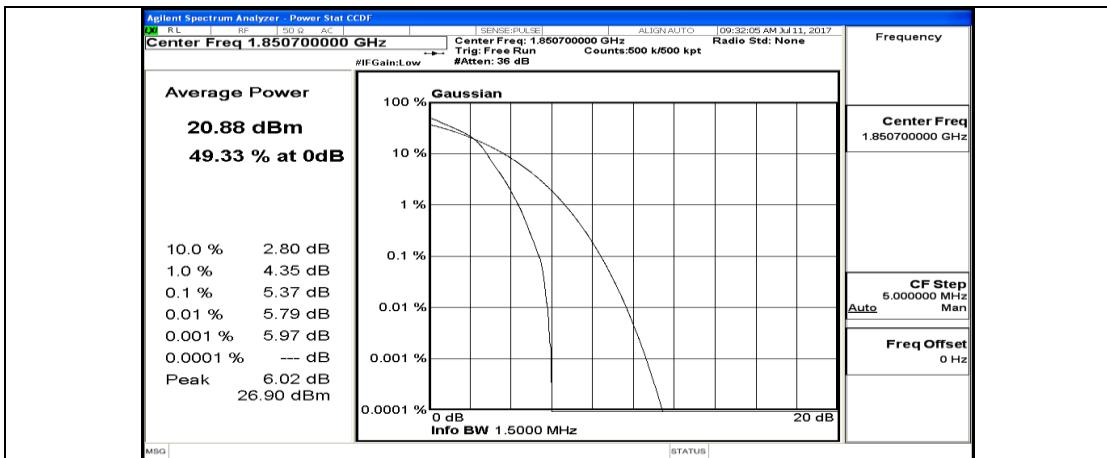
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_6RB#0



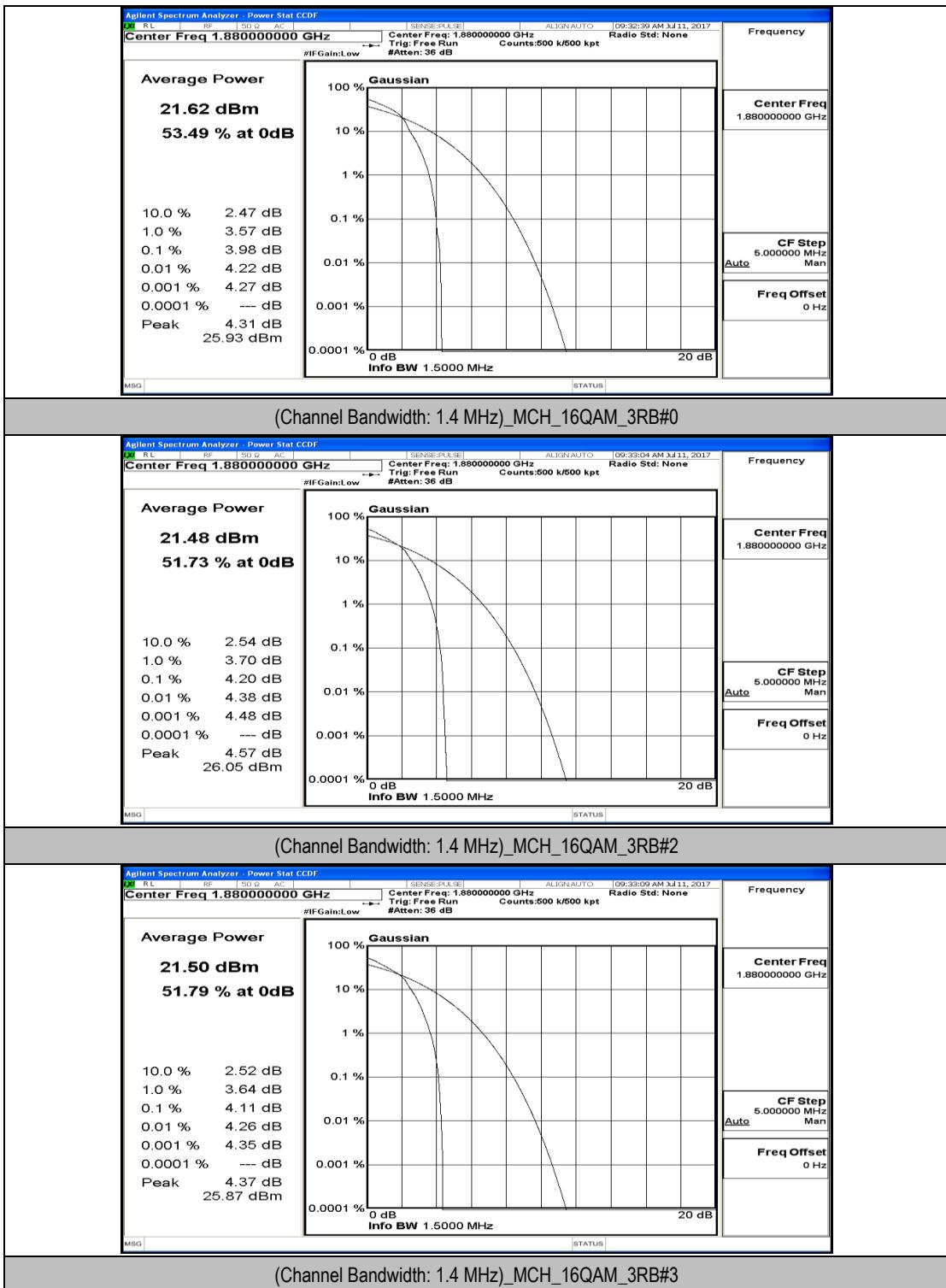
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#0

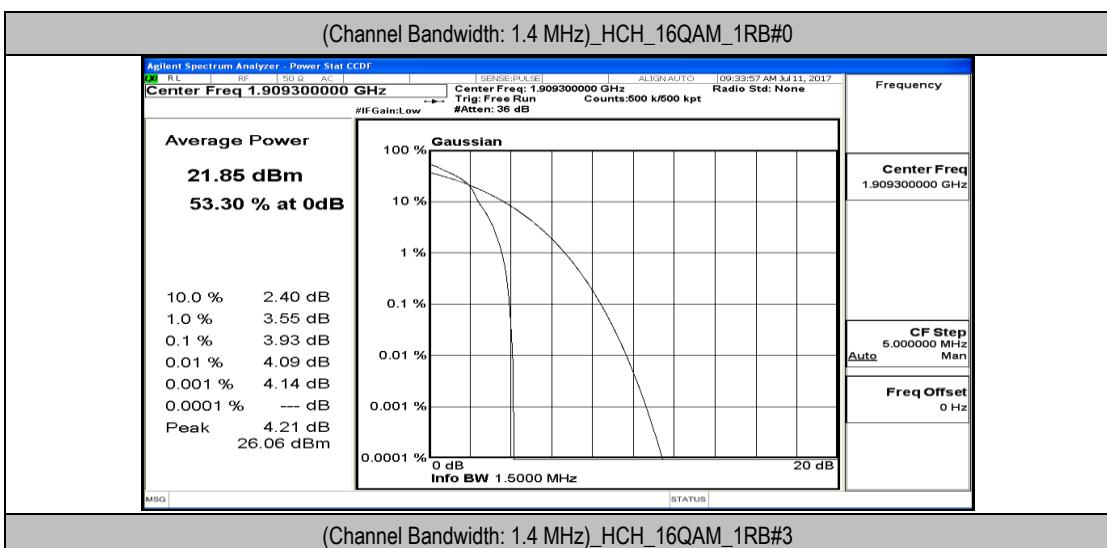
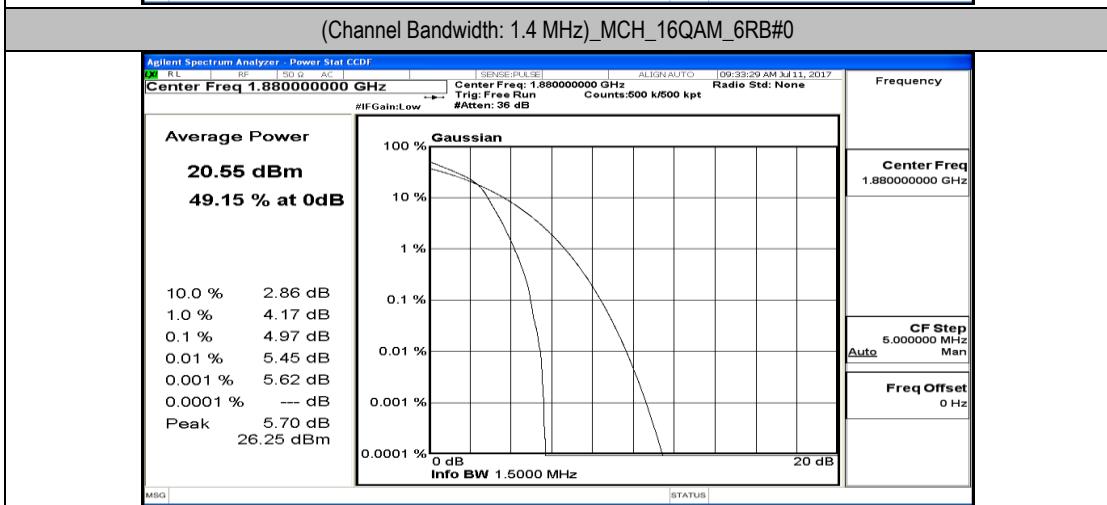
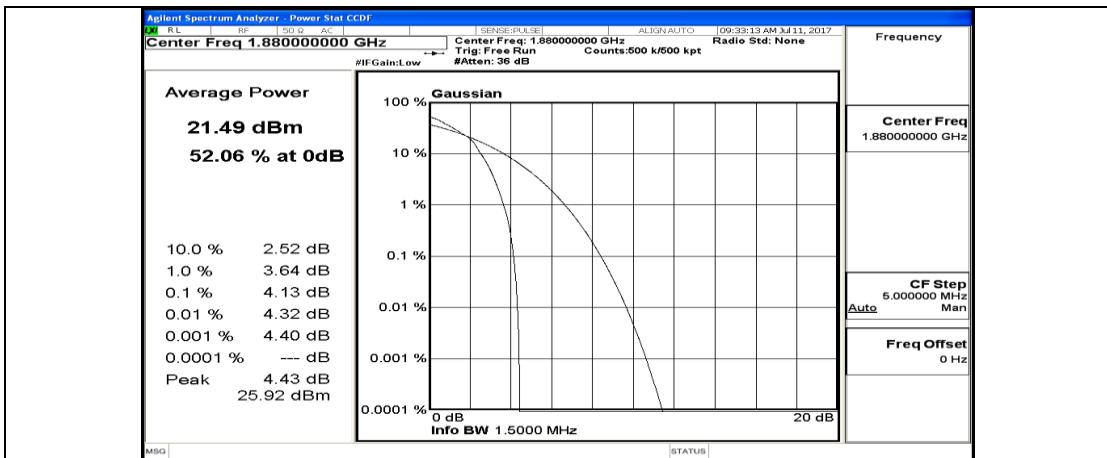


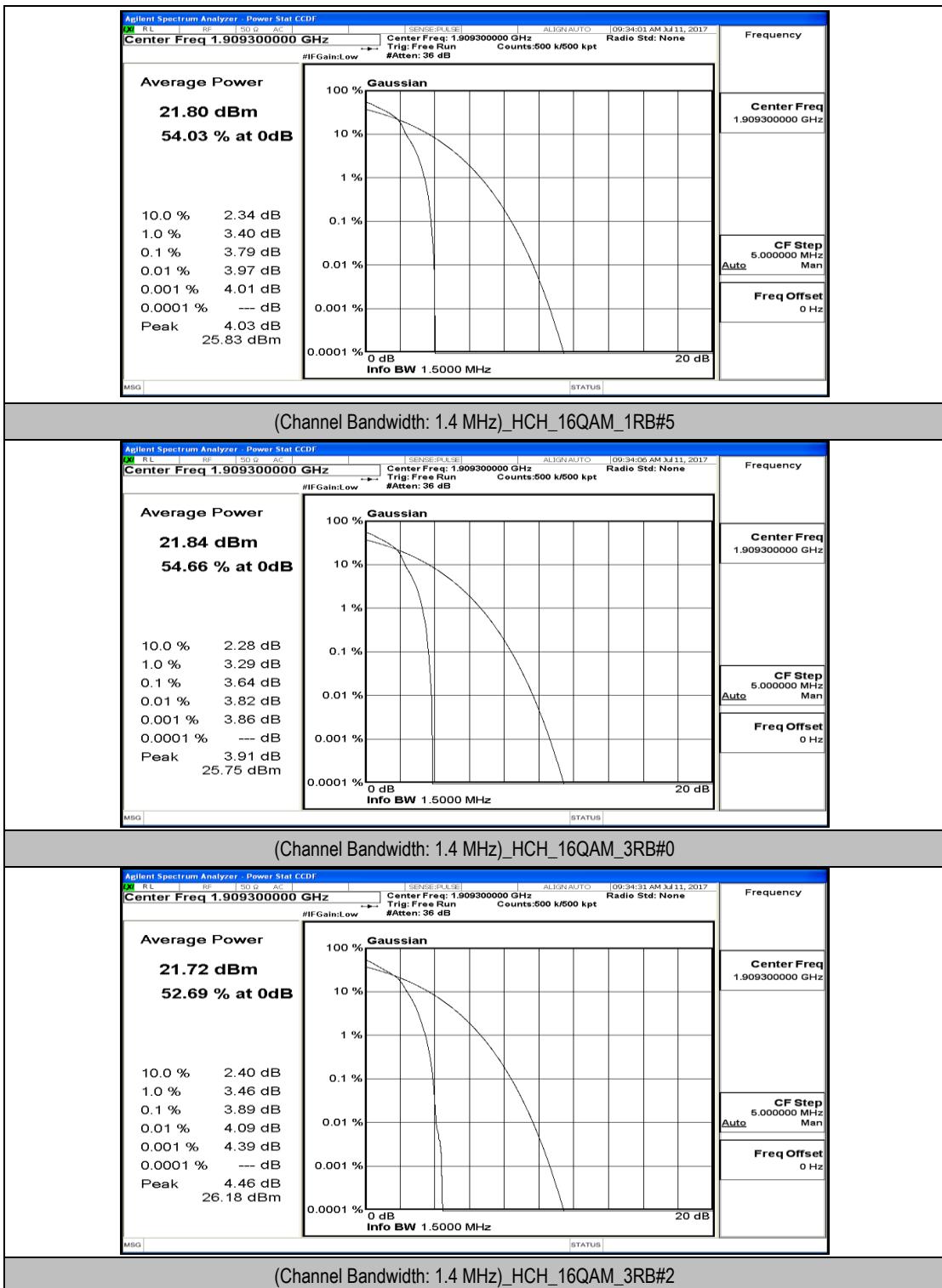


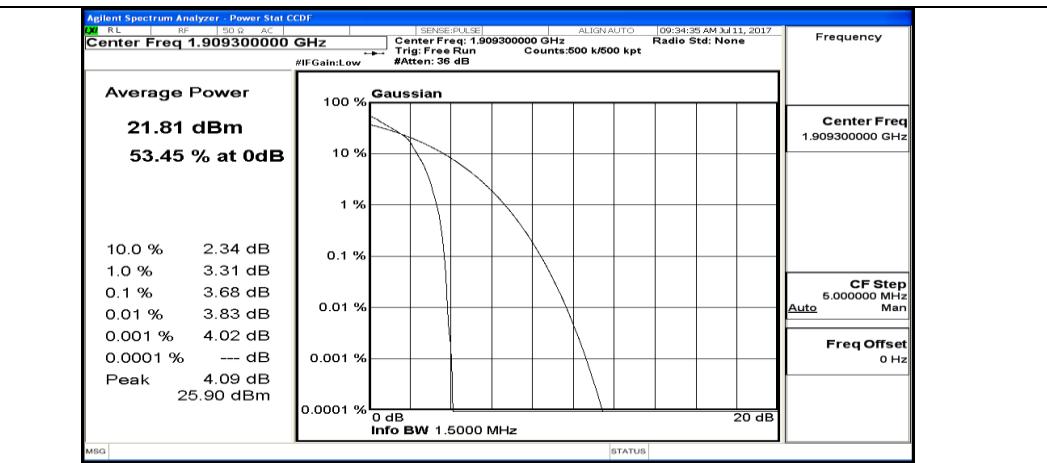


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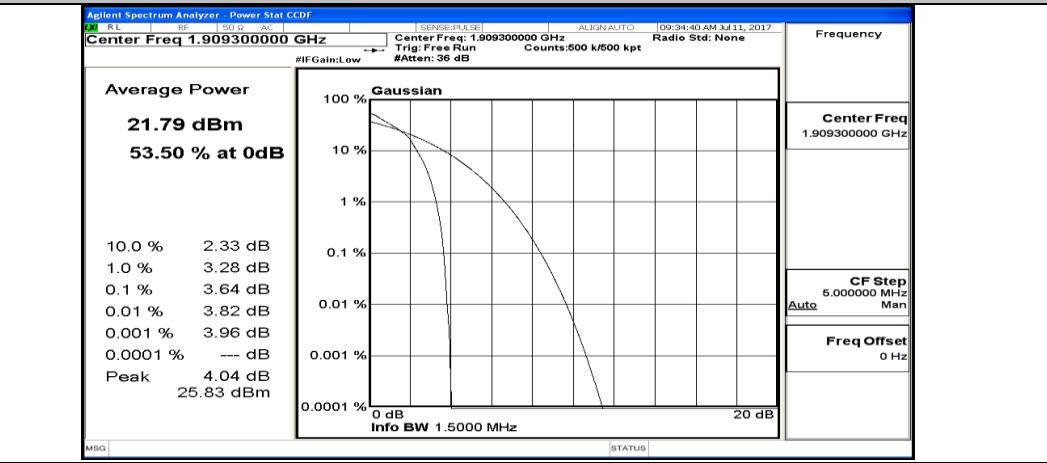




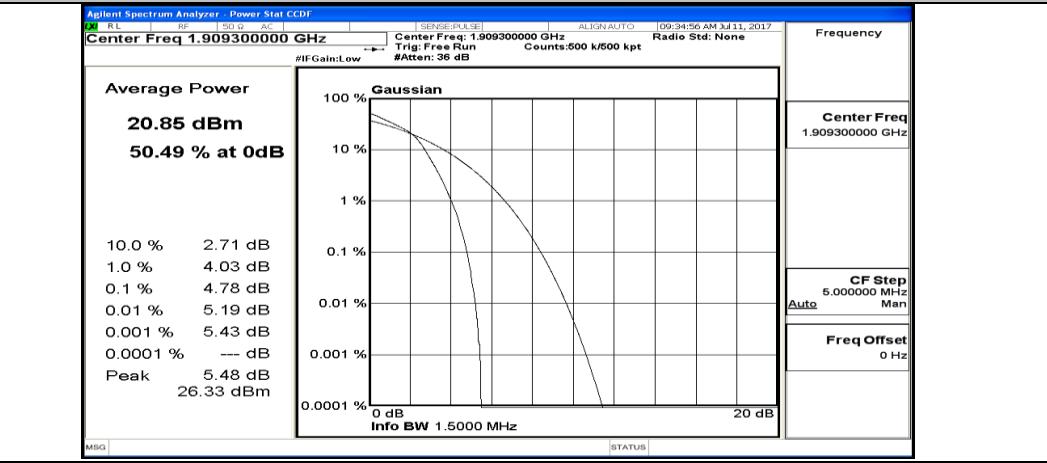




(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_3RB#3

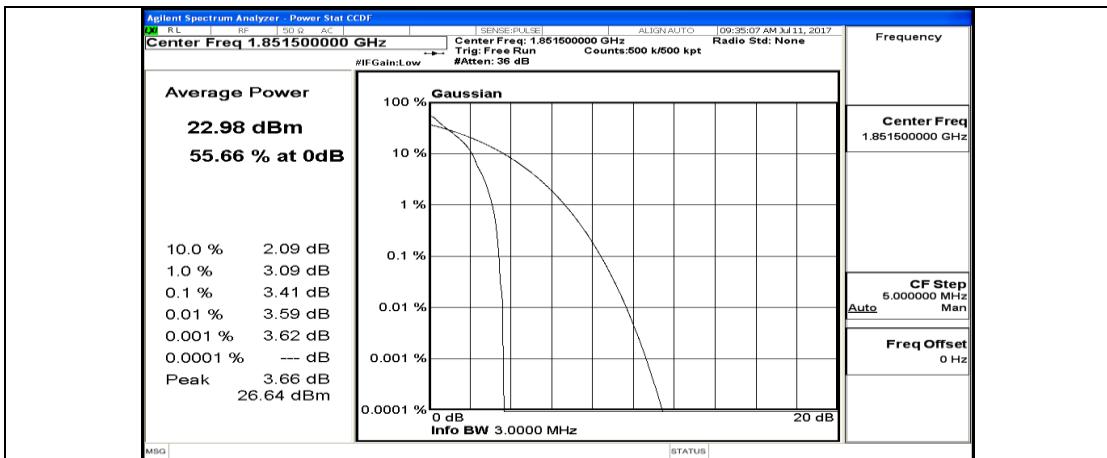


(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_6RB#0

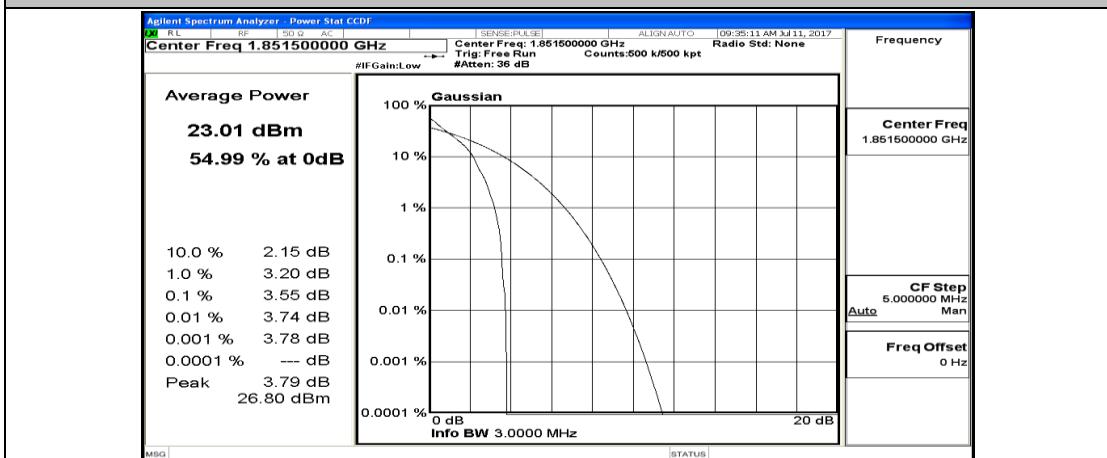


Channel Bandwidth: 3 MHz

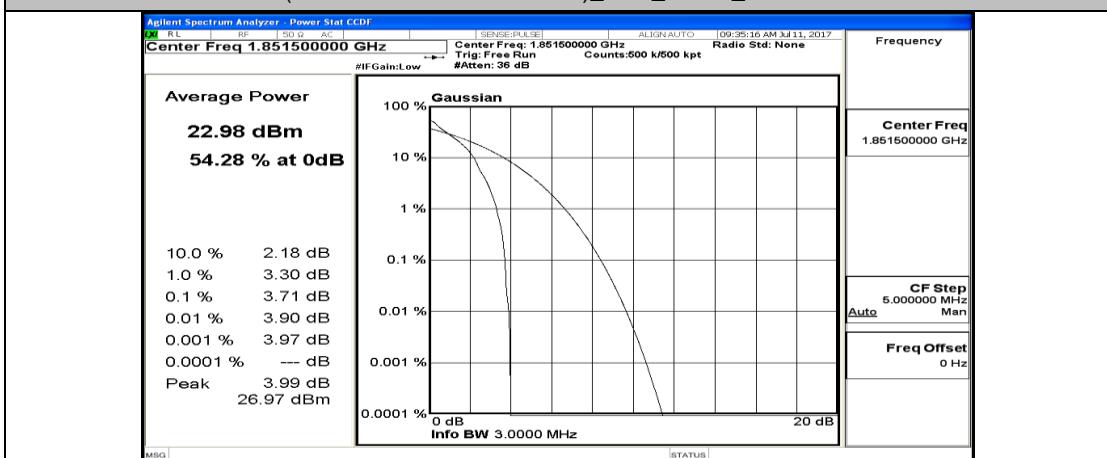
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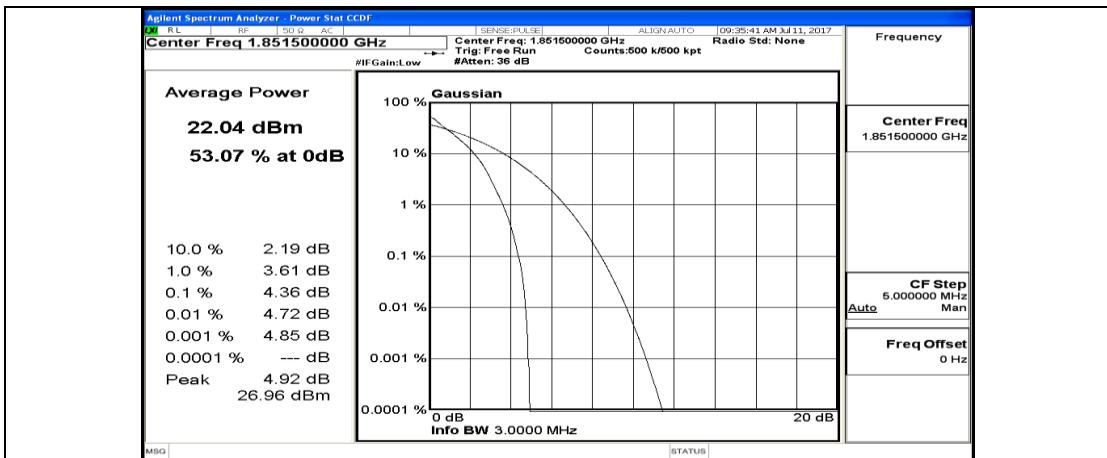
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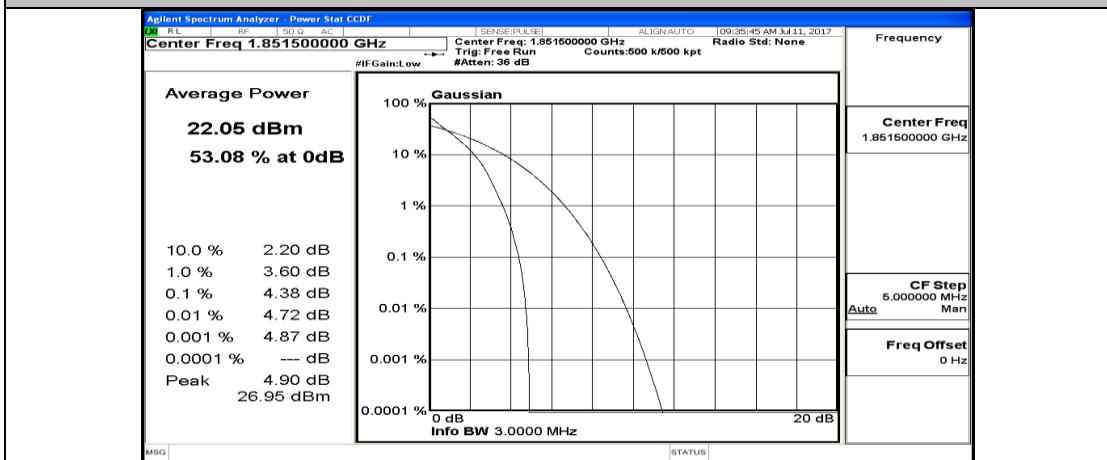
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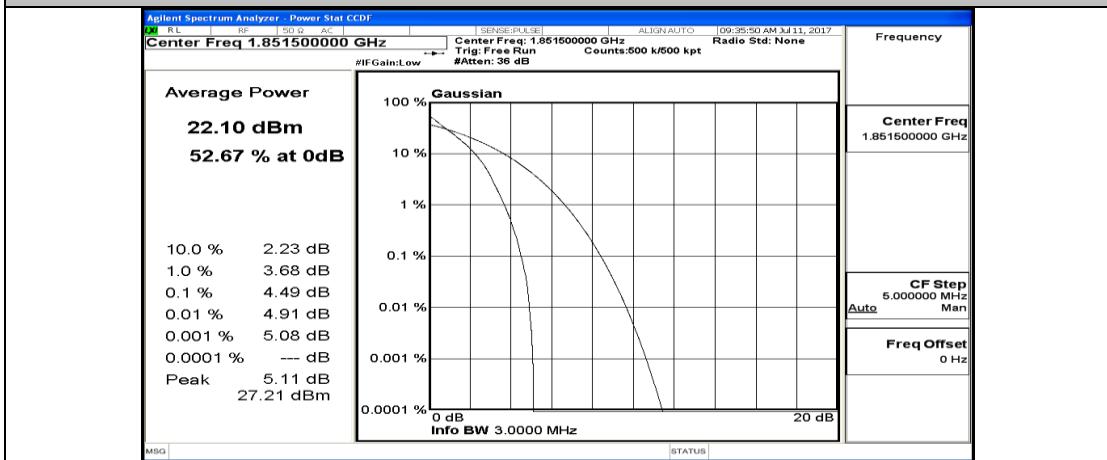
(Channel Bandwidth: 3 MHz)_LCH_QPSK_8RB#0



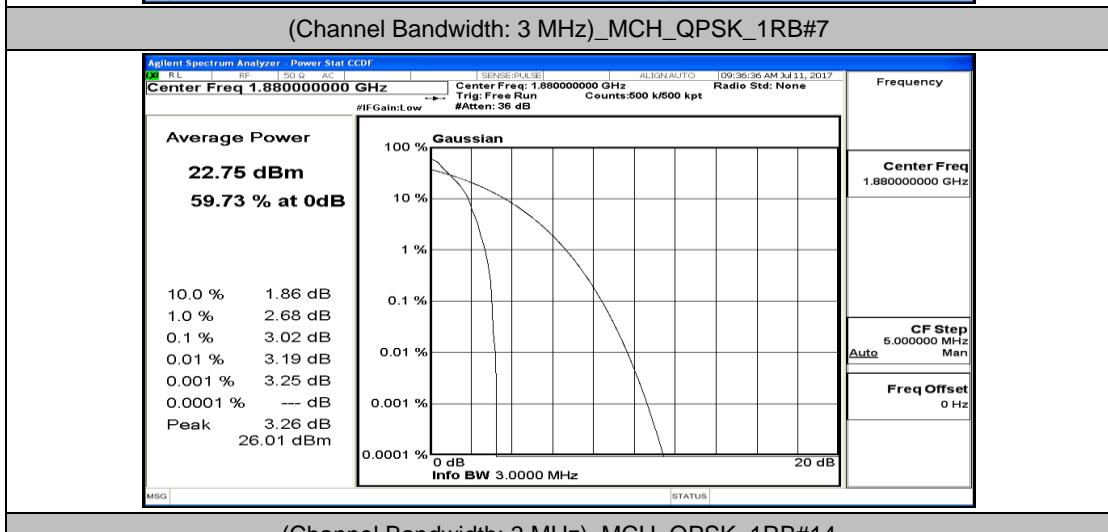
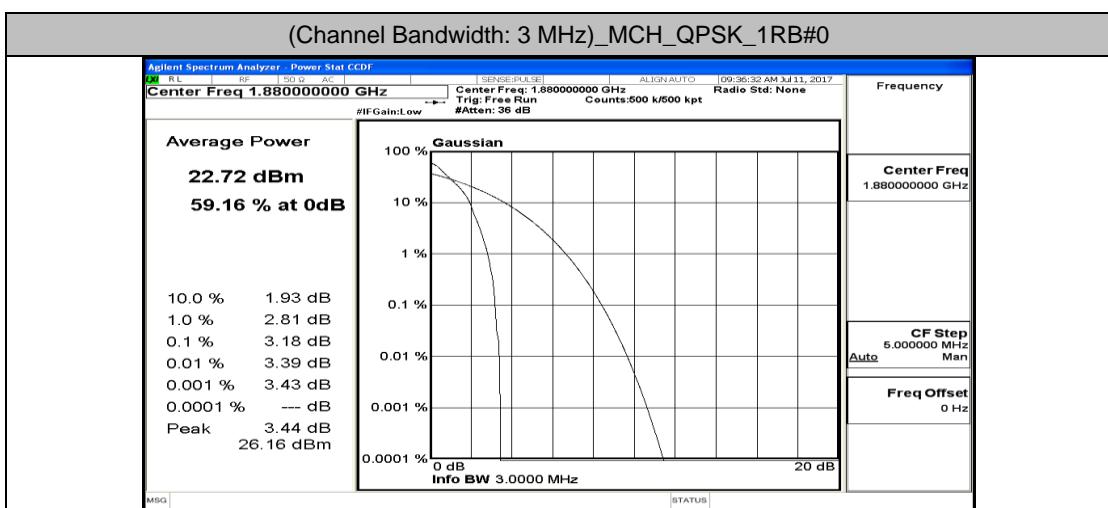
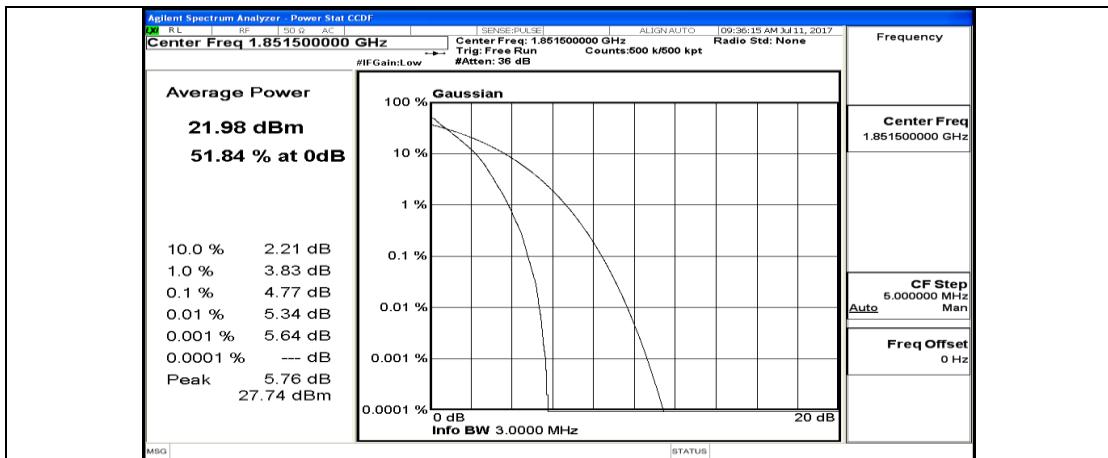
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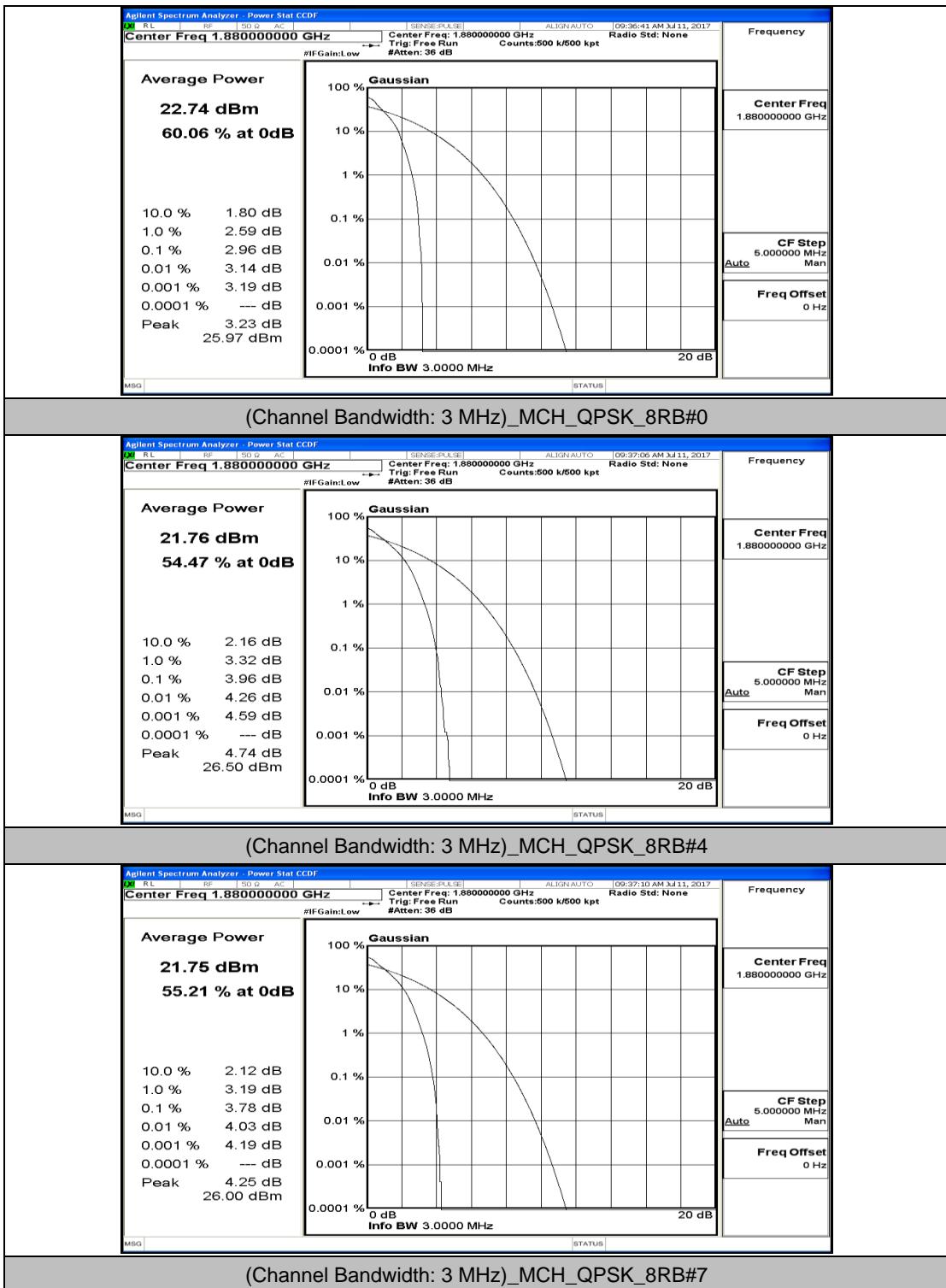
(Channel Bandwidth: 3 MHz)_LCH_QPSK_8RB#7

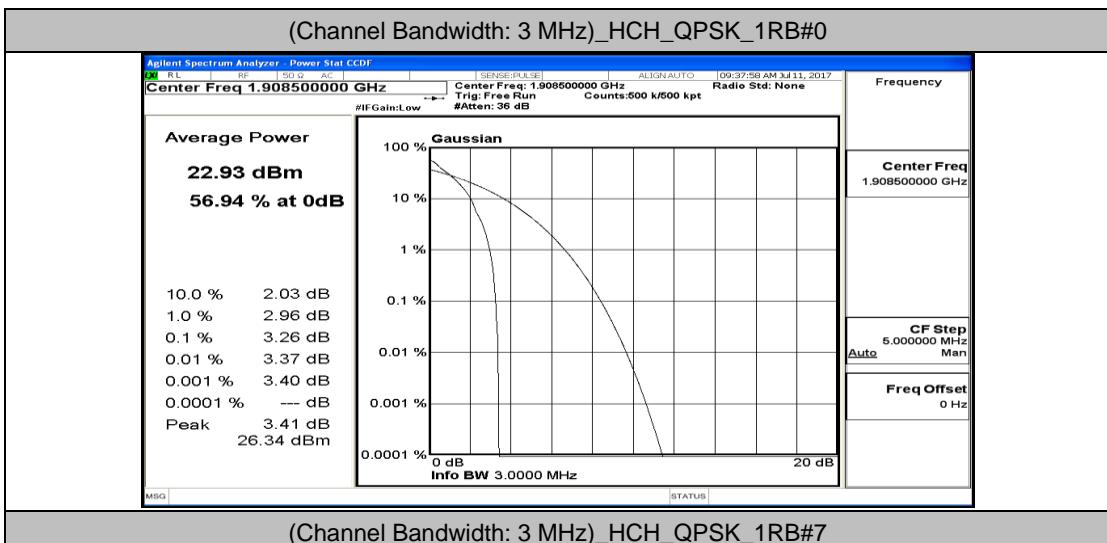
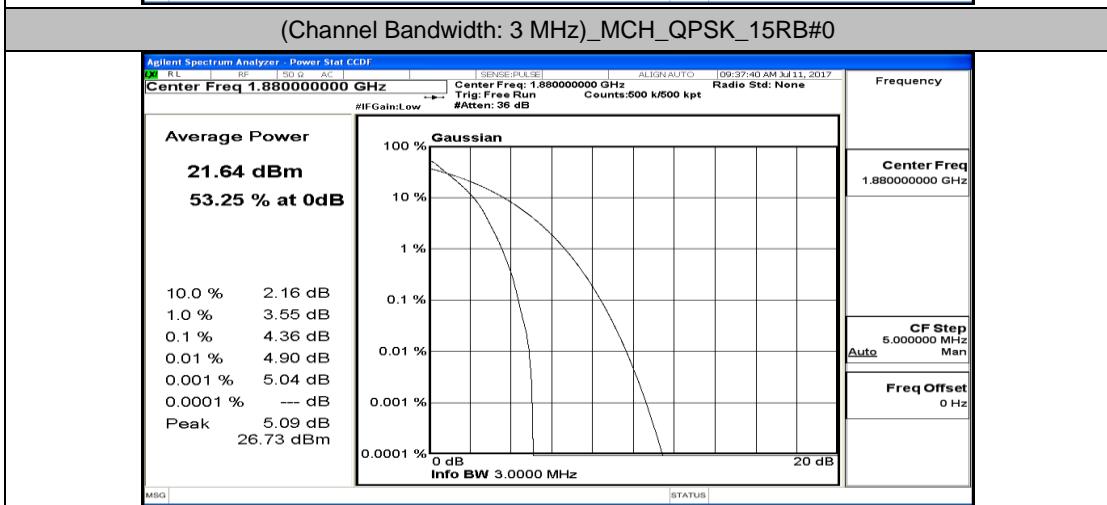
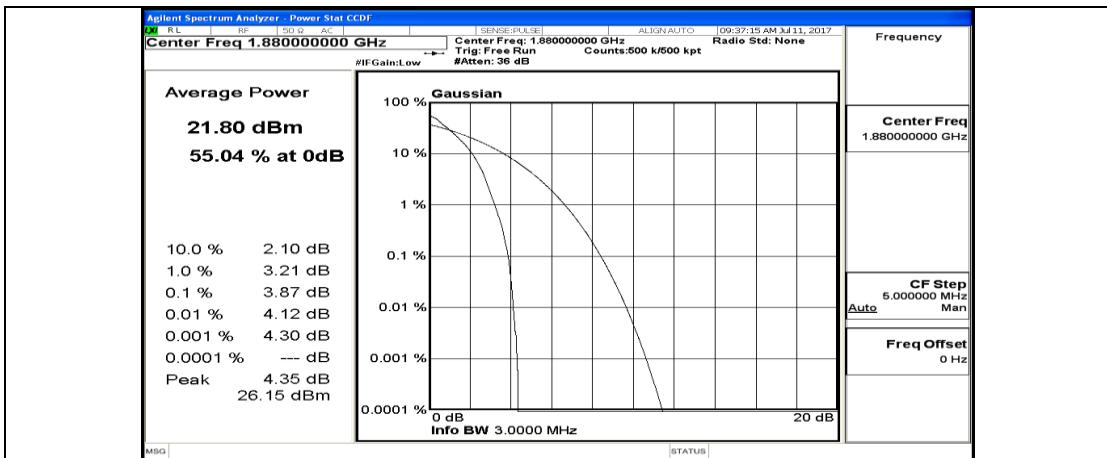


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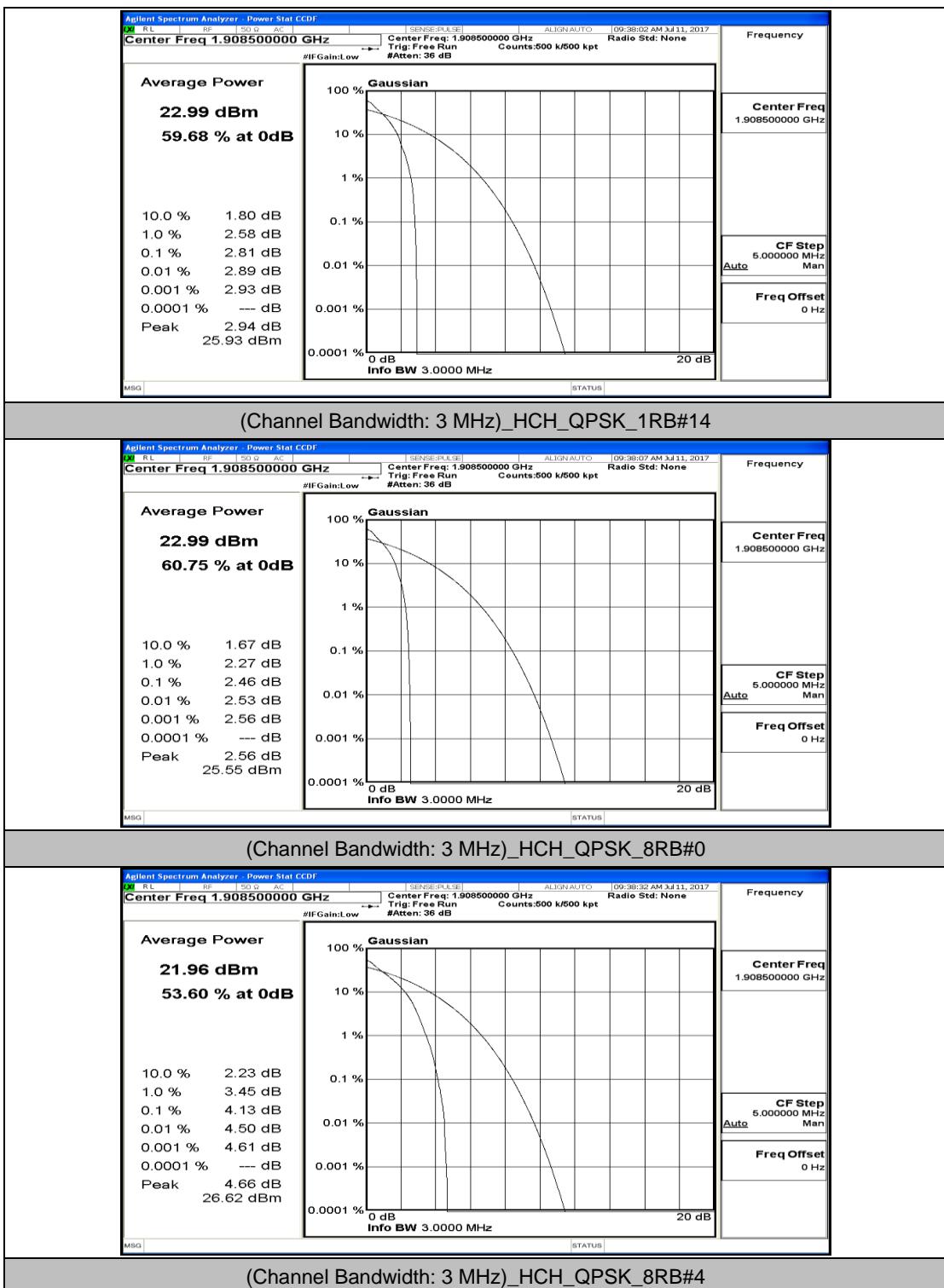


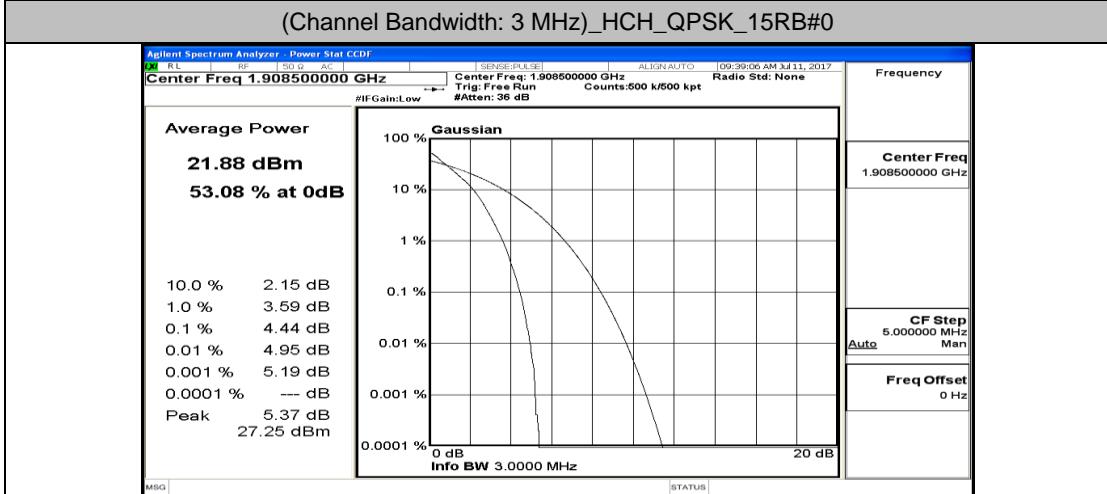
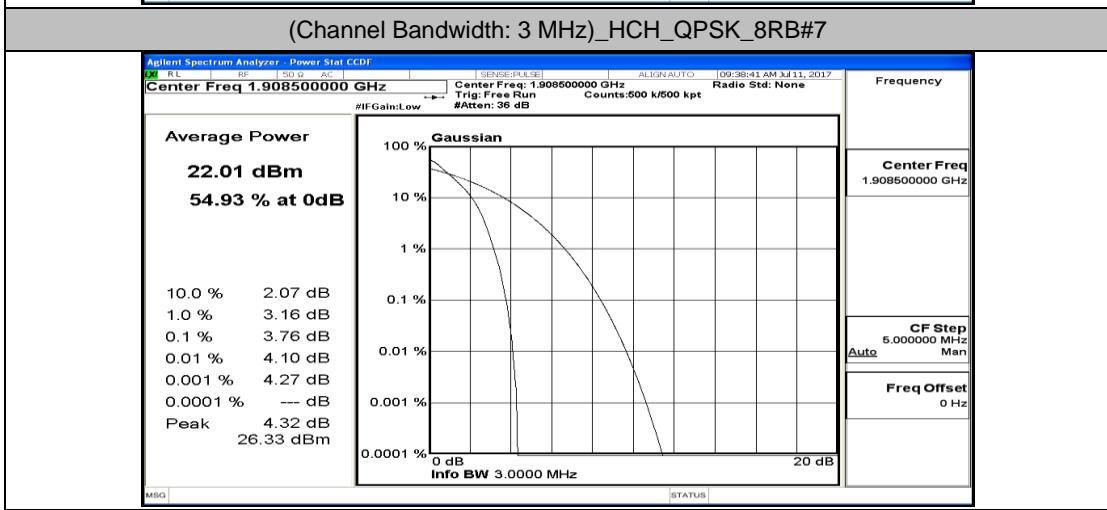
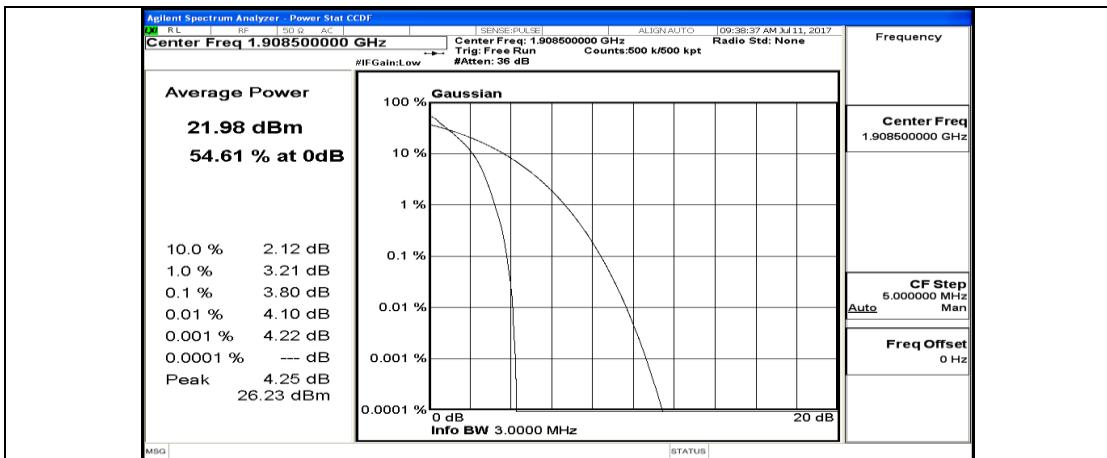
(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#14



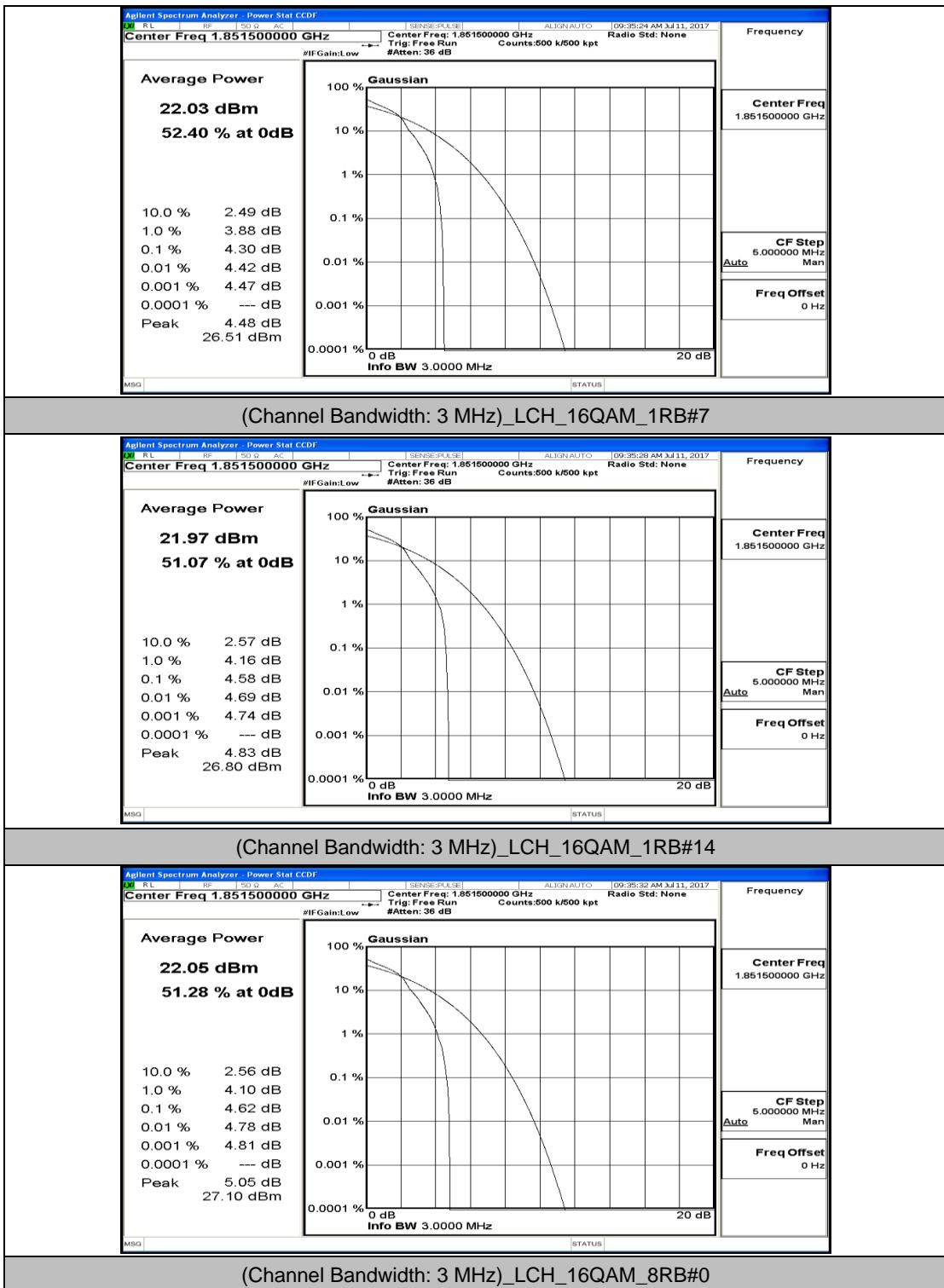


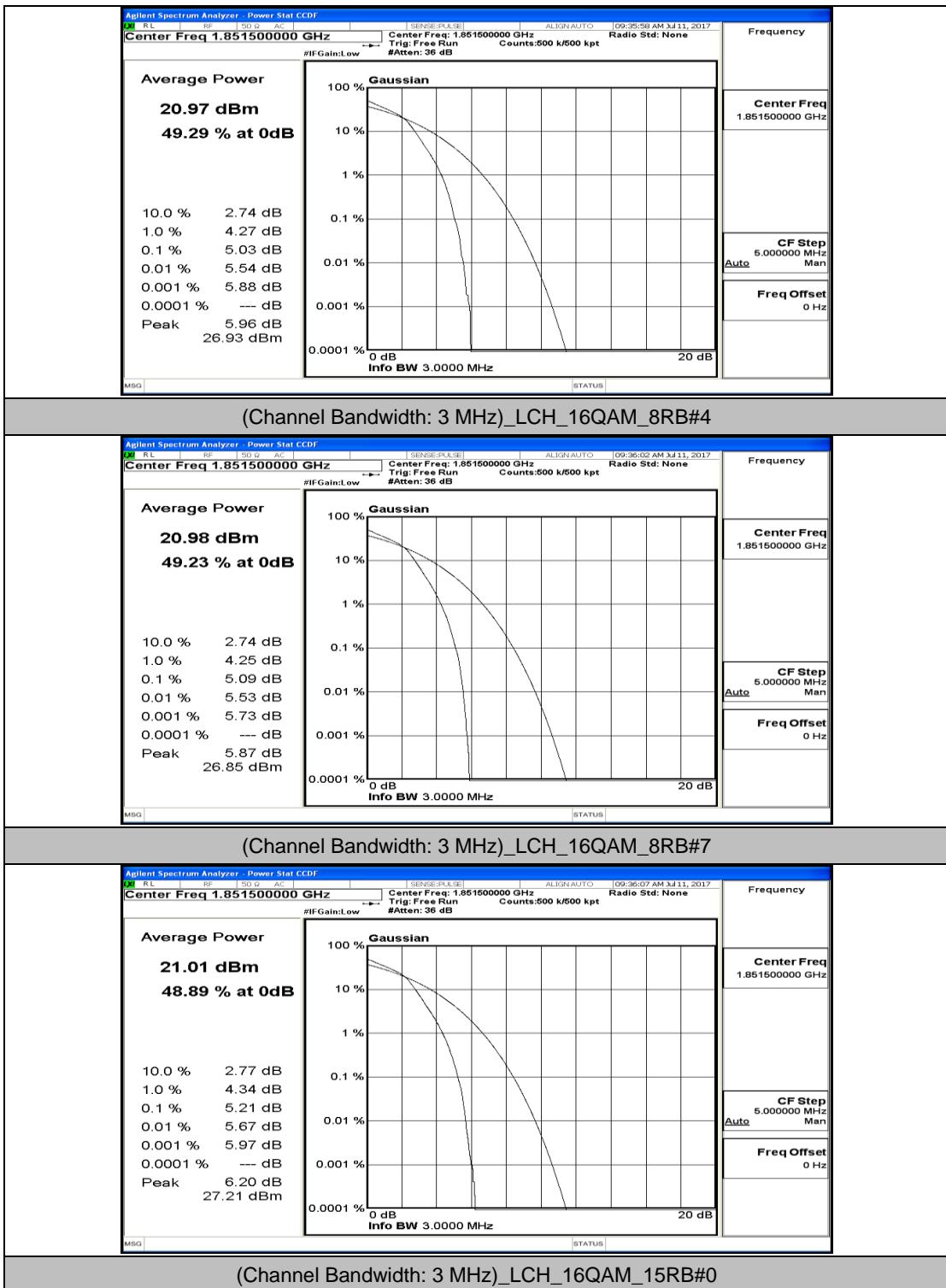
(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#7

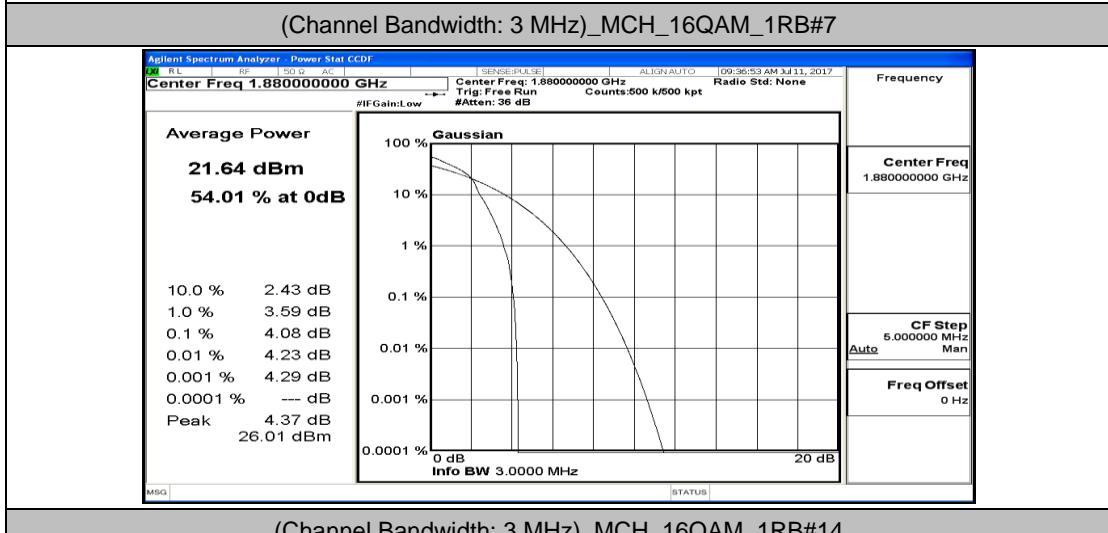
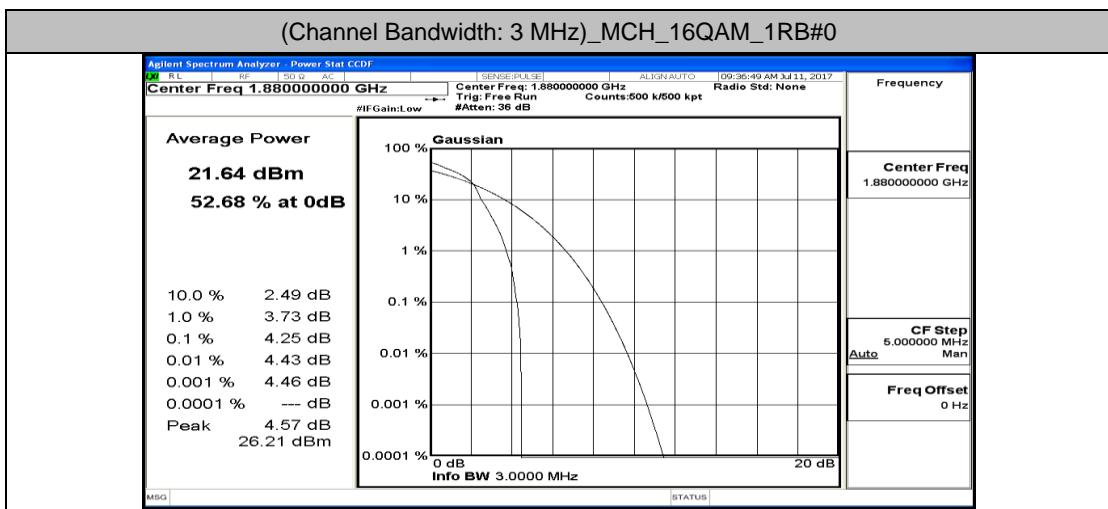
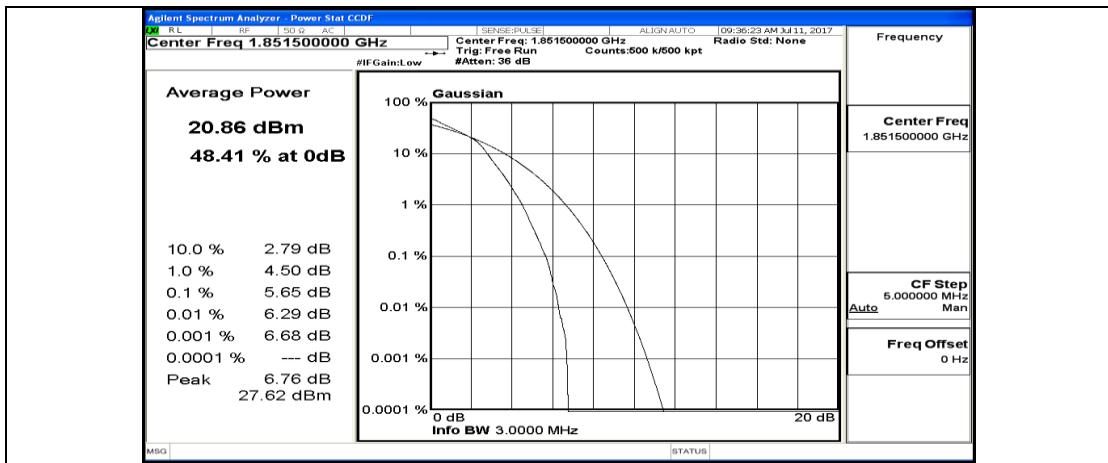




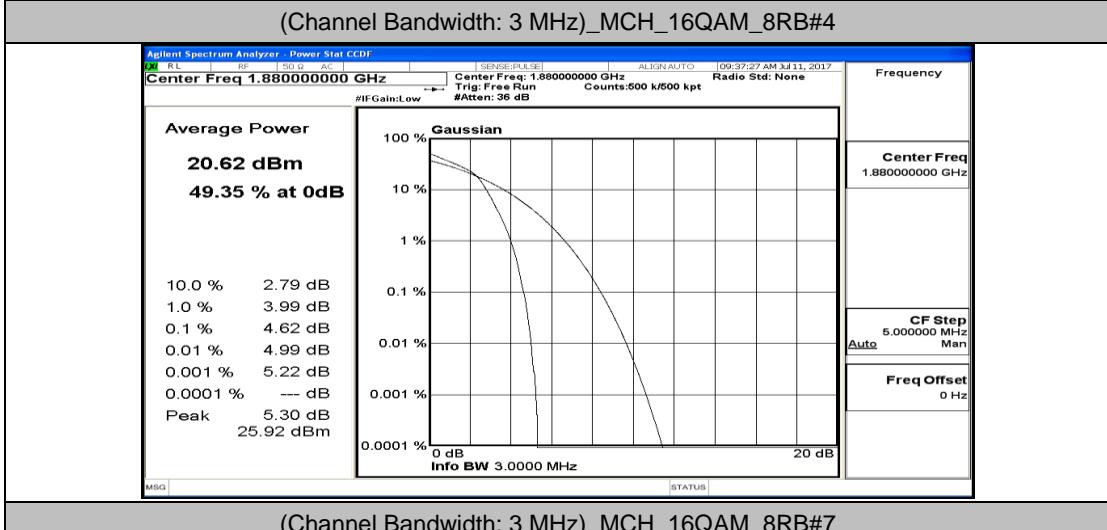
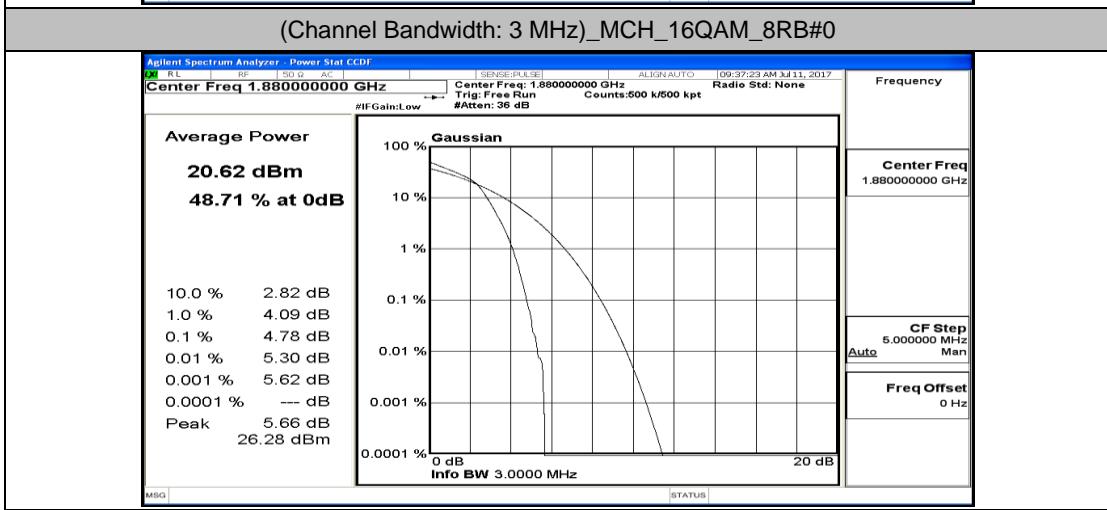
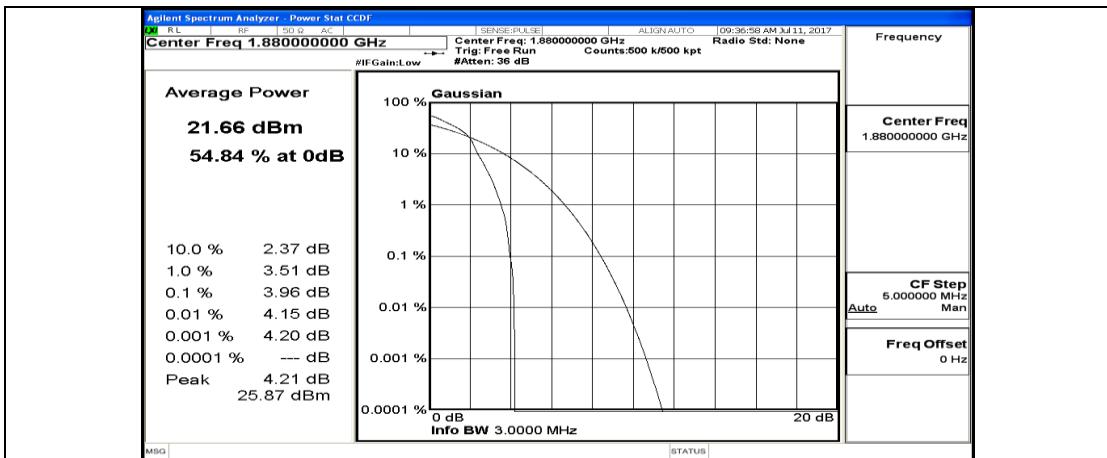
(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#0



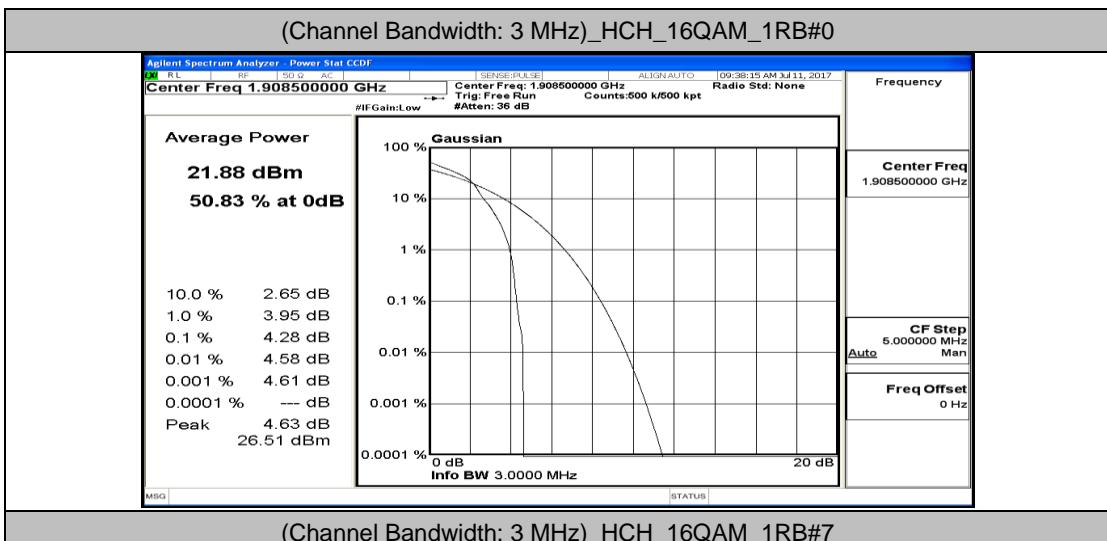
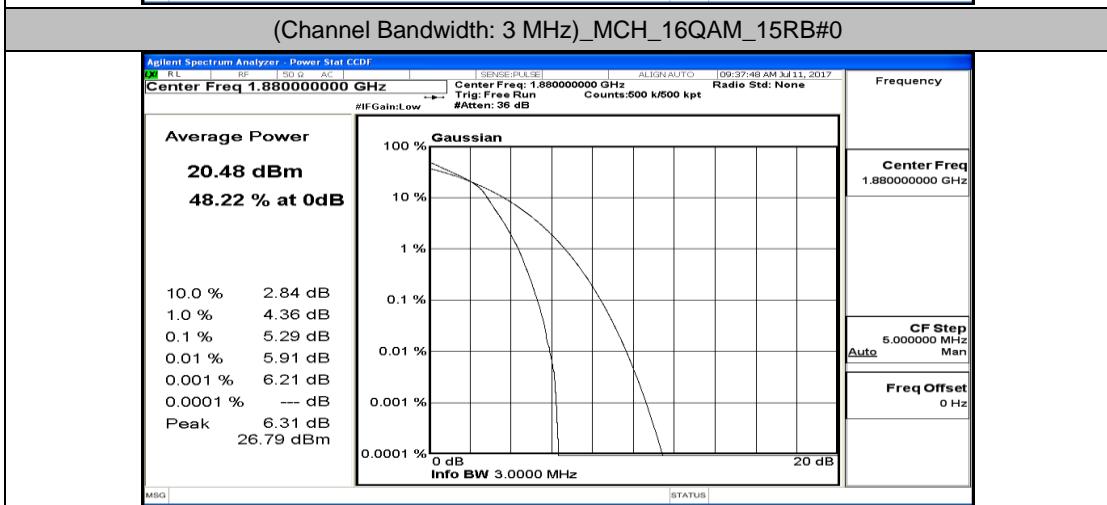
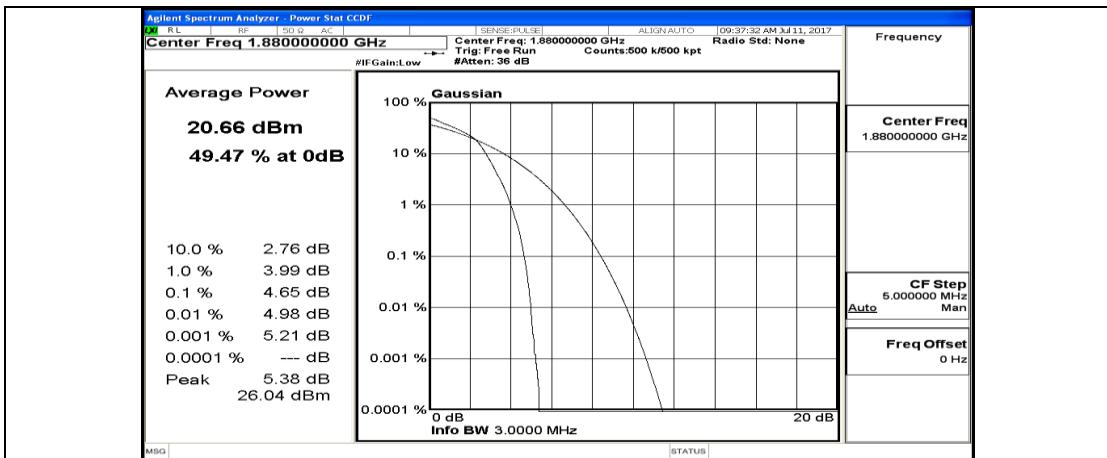




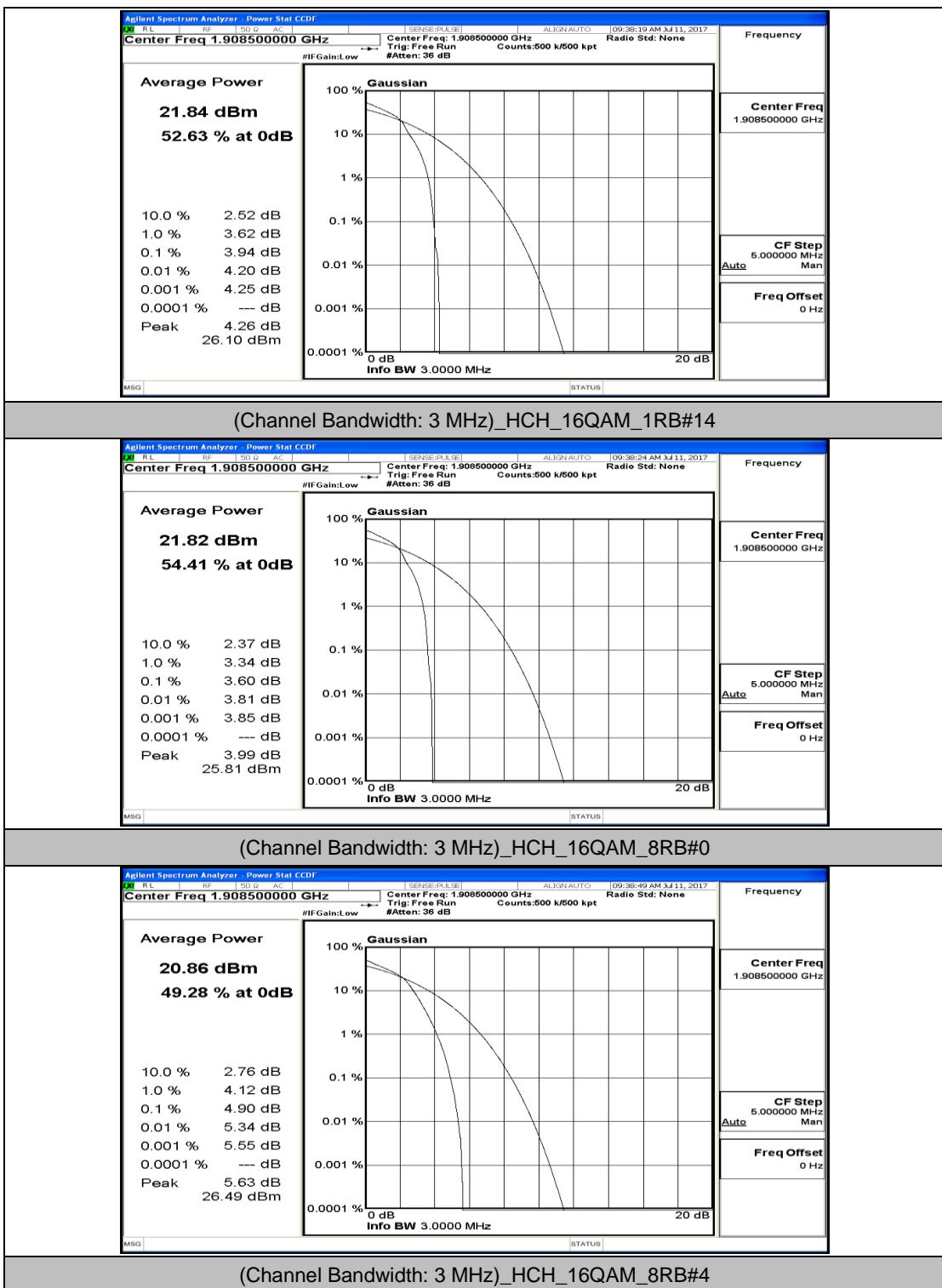
(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#14

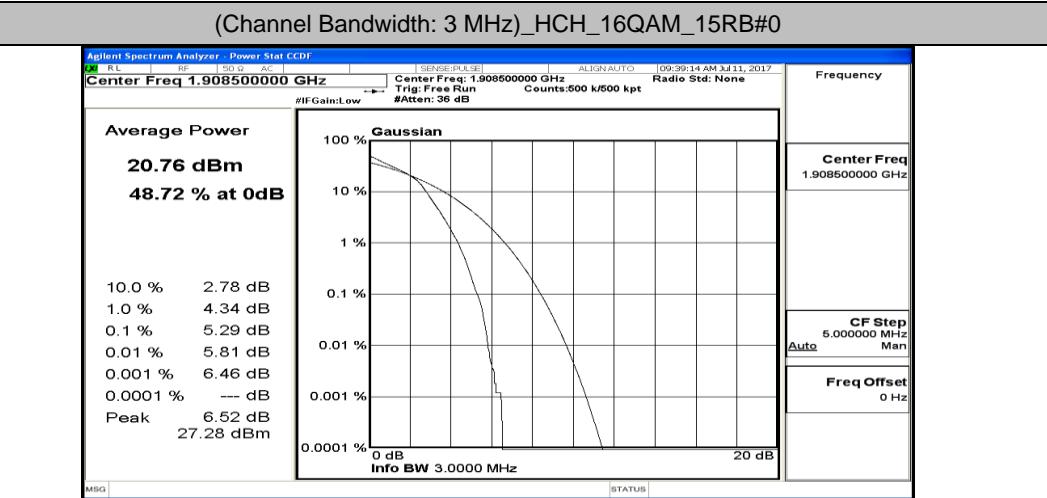
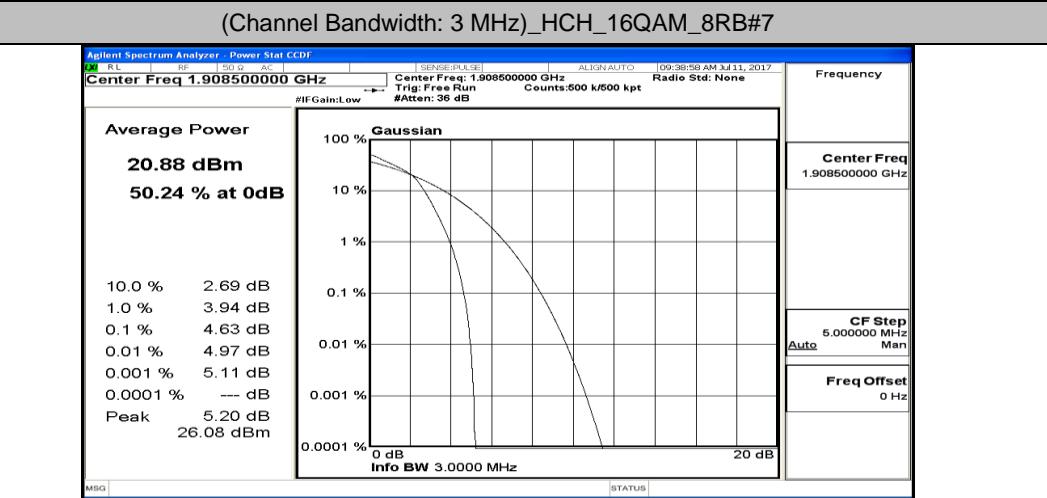
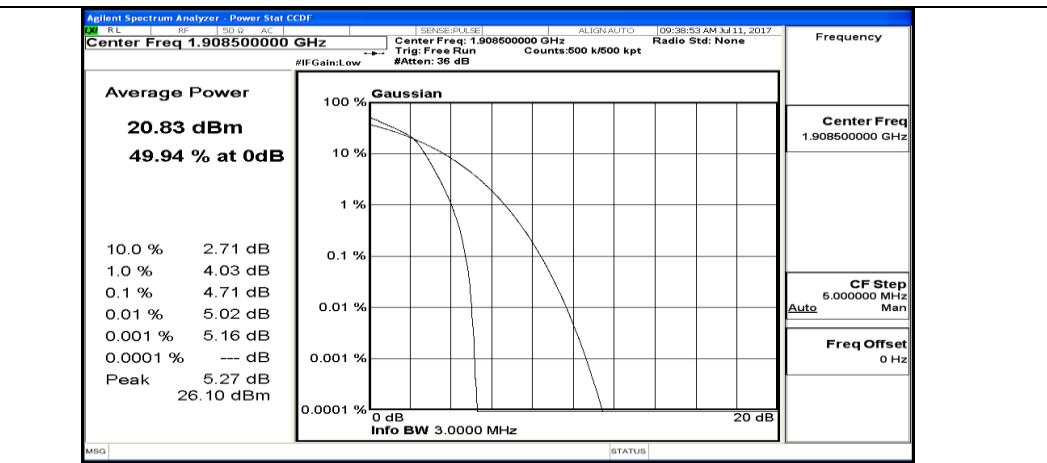


(Channel Bandwidth: 3 MHz)_MCH_16QAM_8RB#7



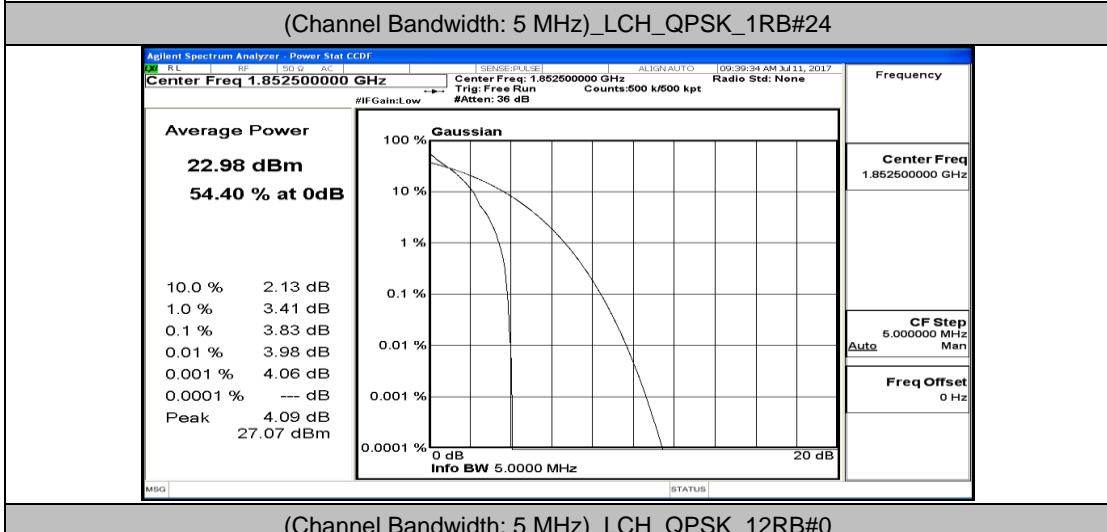
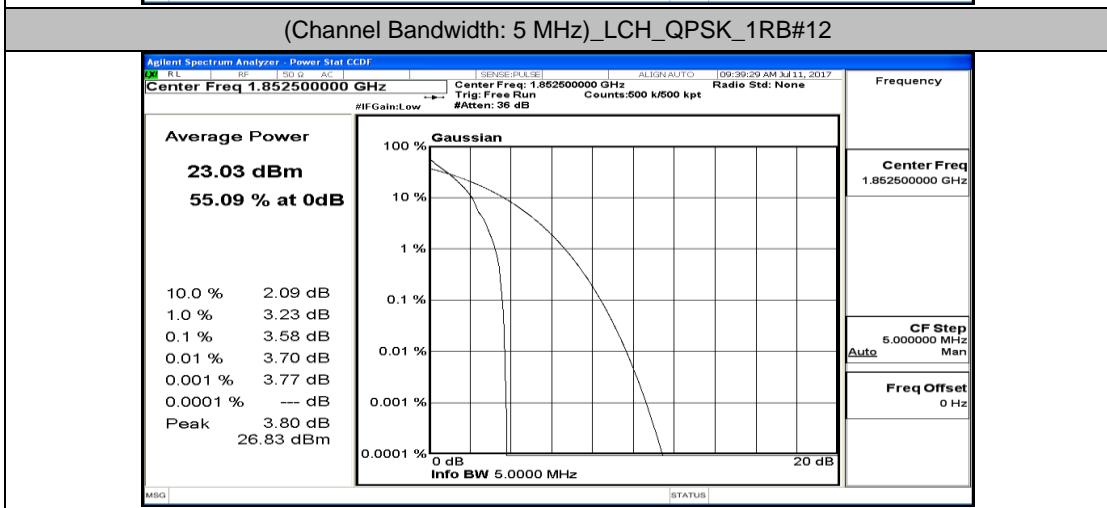
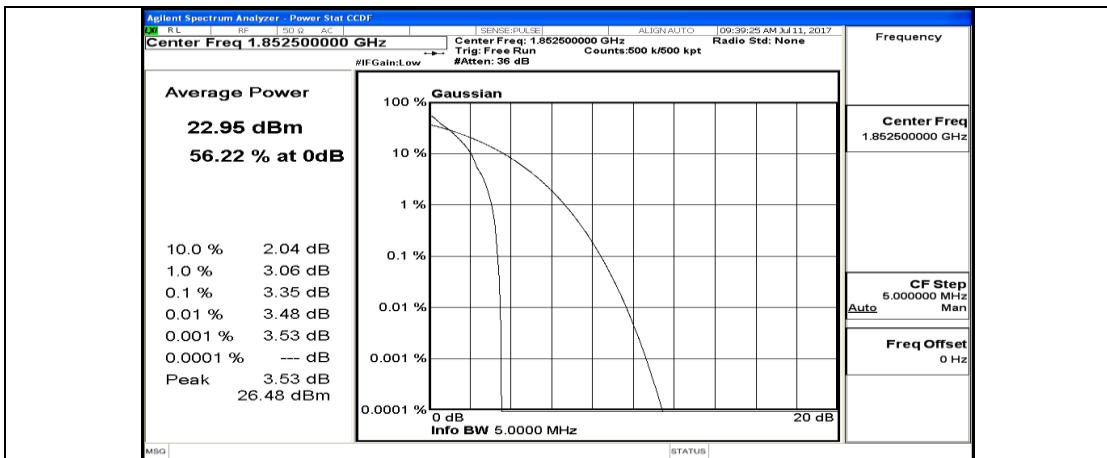
(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#7

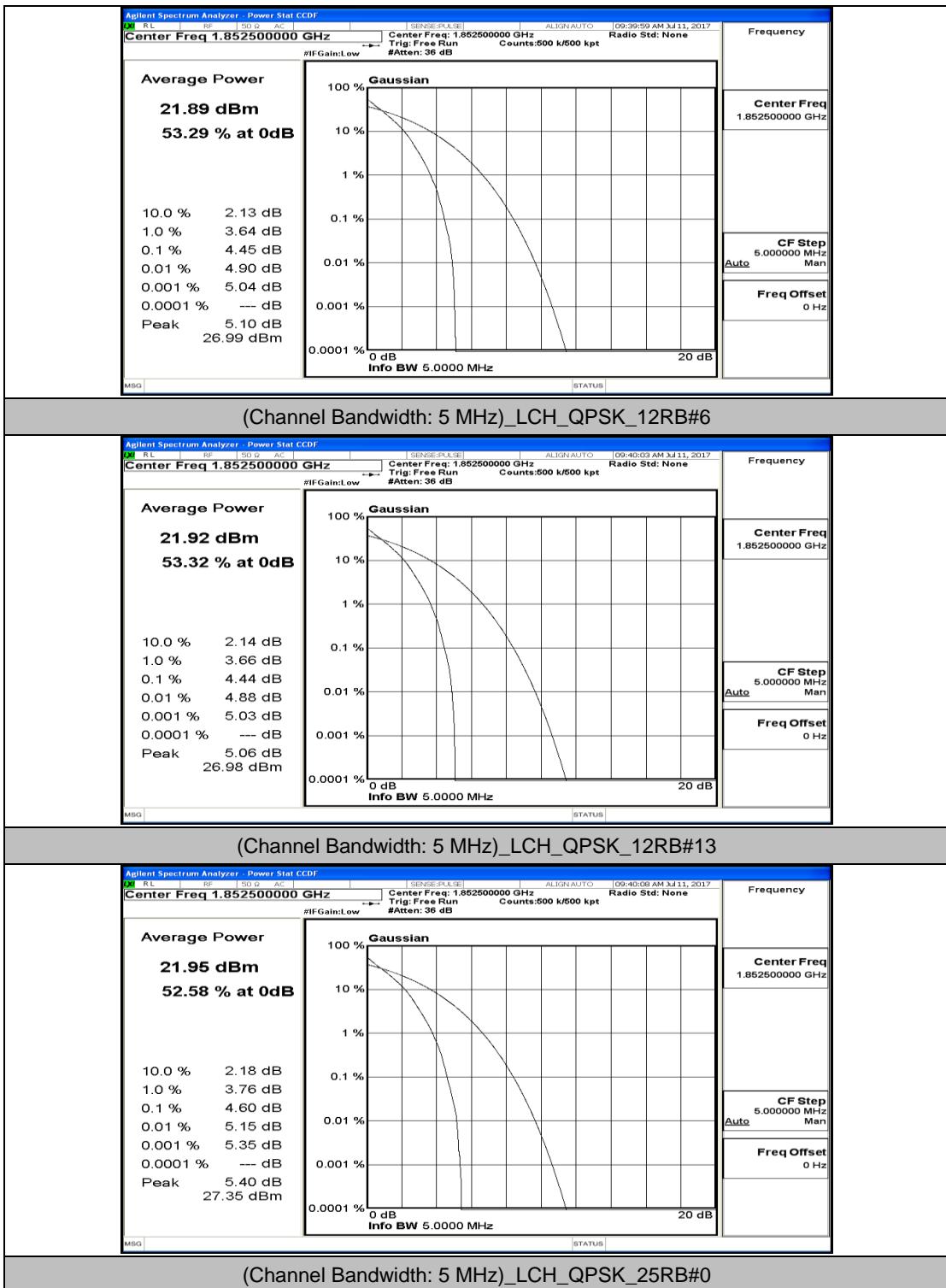


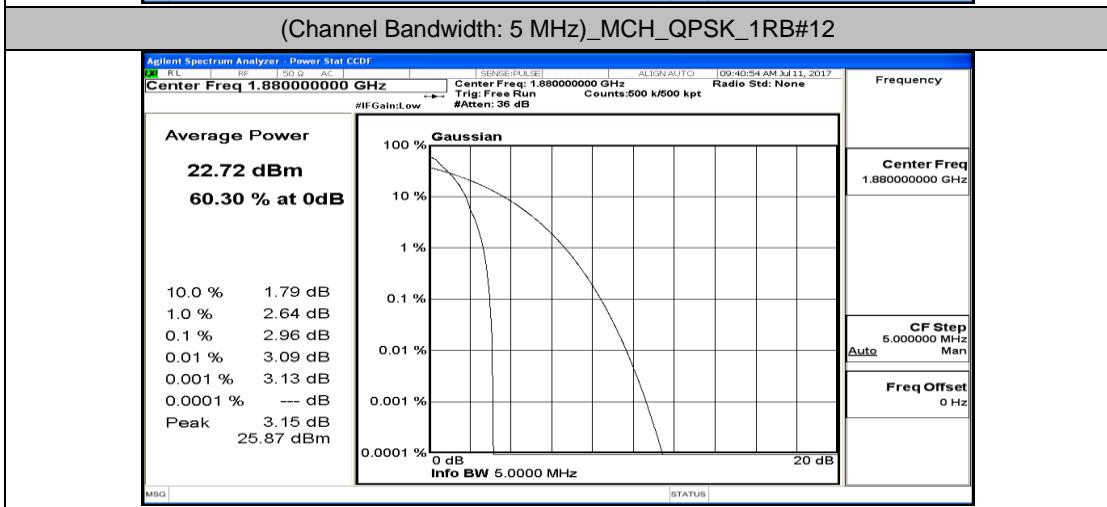
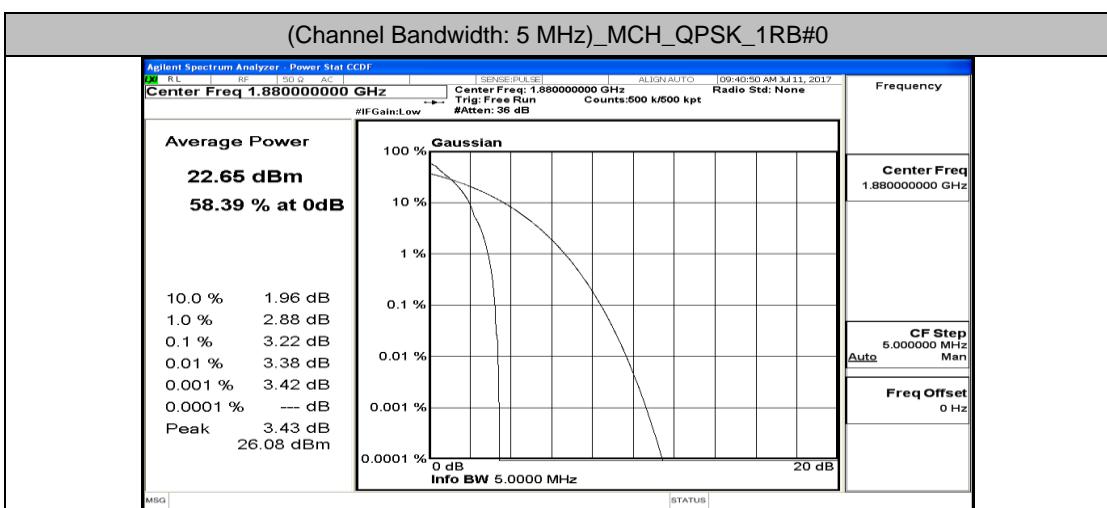
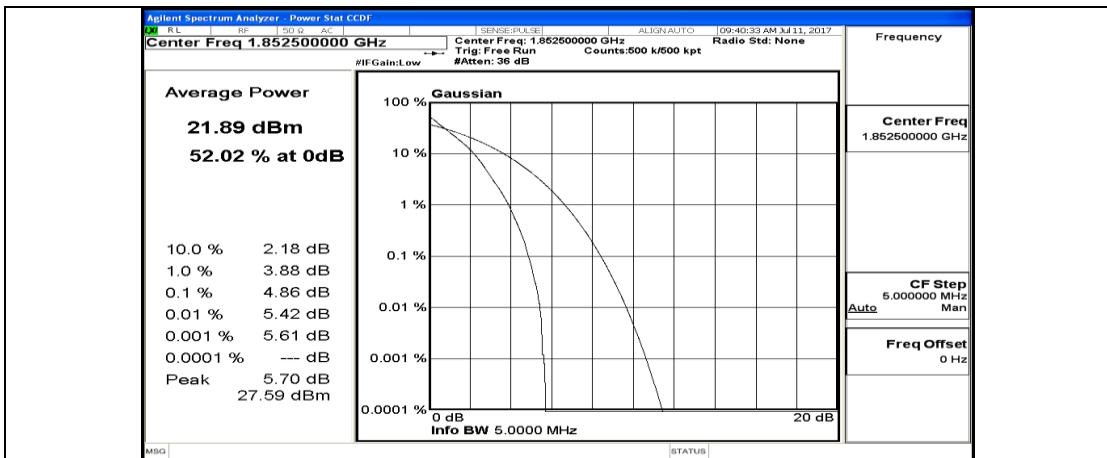


Channel Bandwidth: 5 MHz

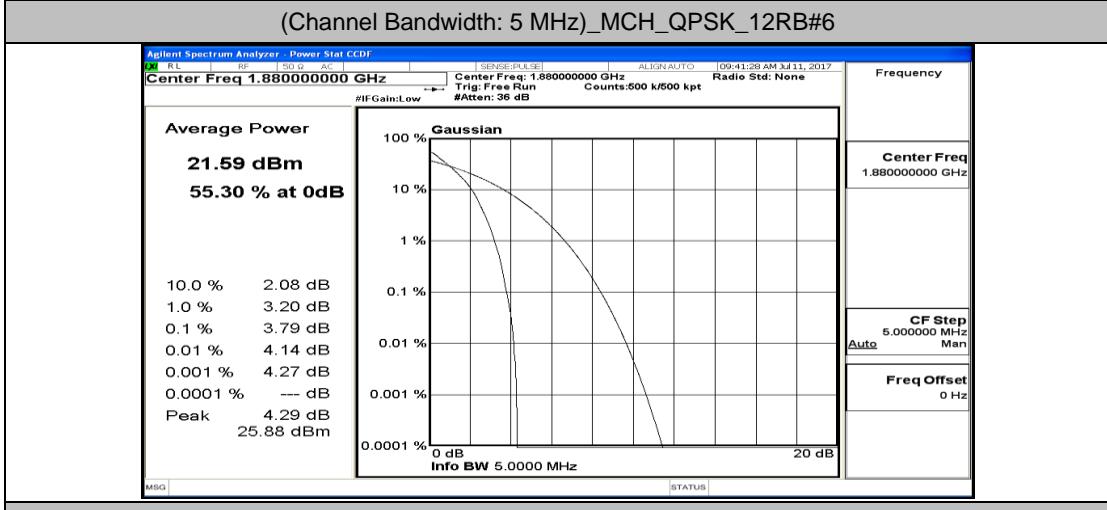
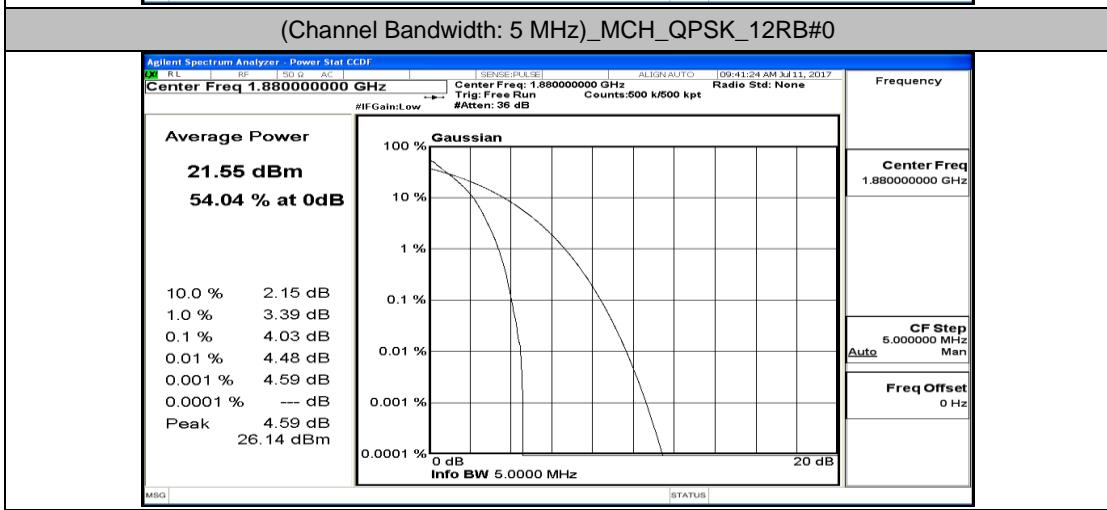
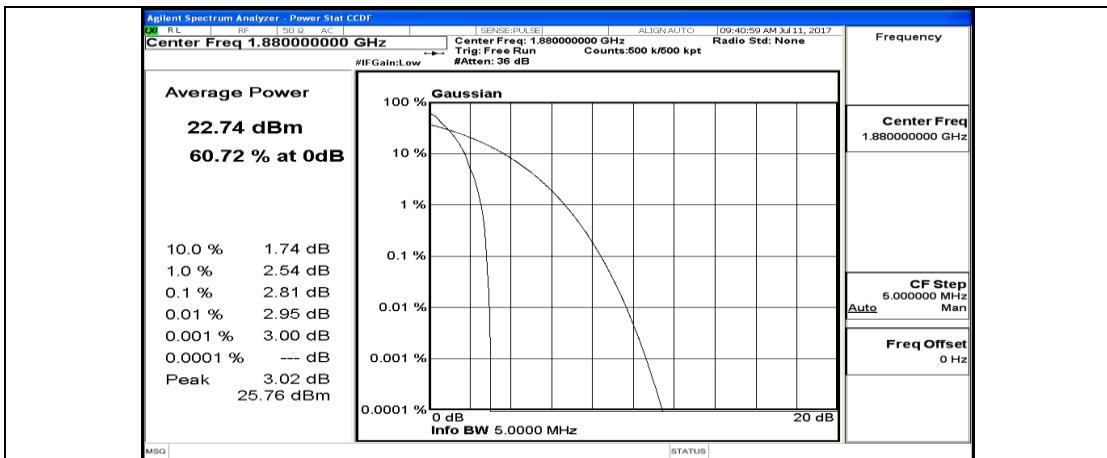
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#0



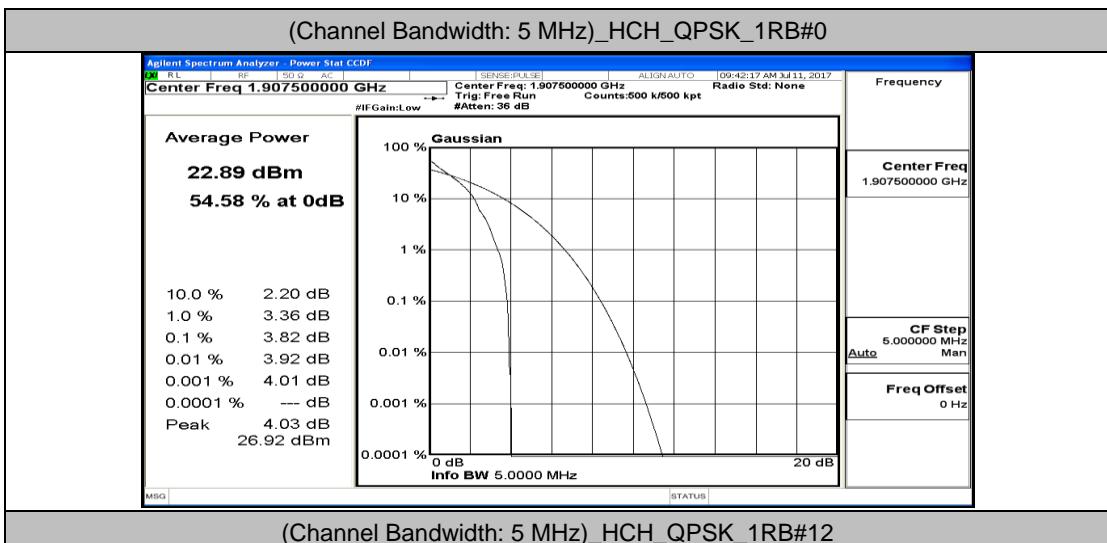
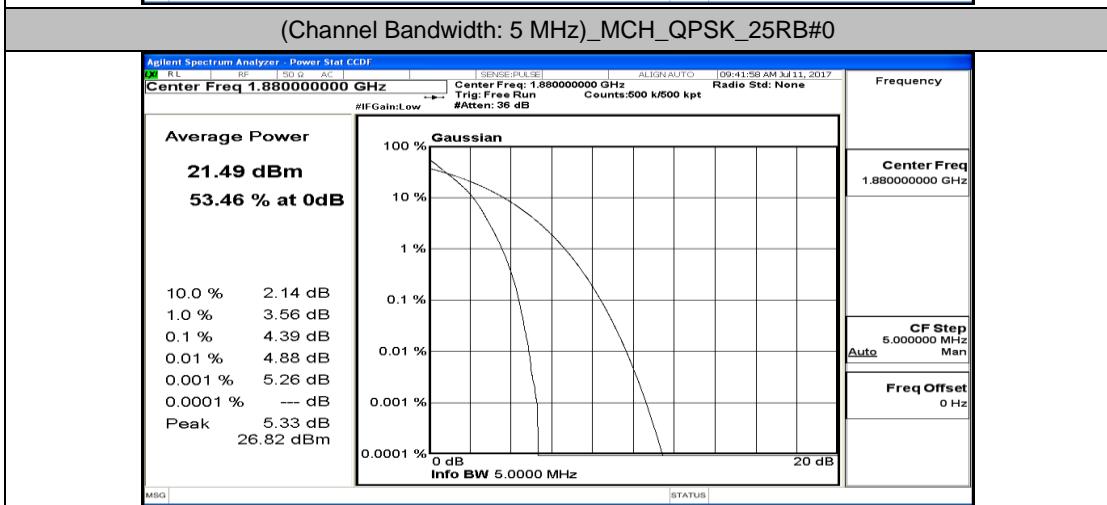
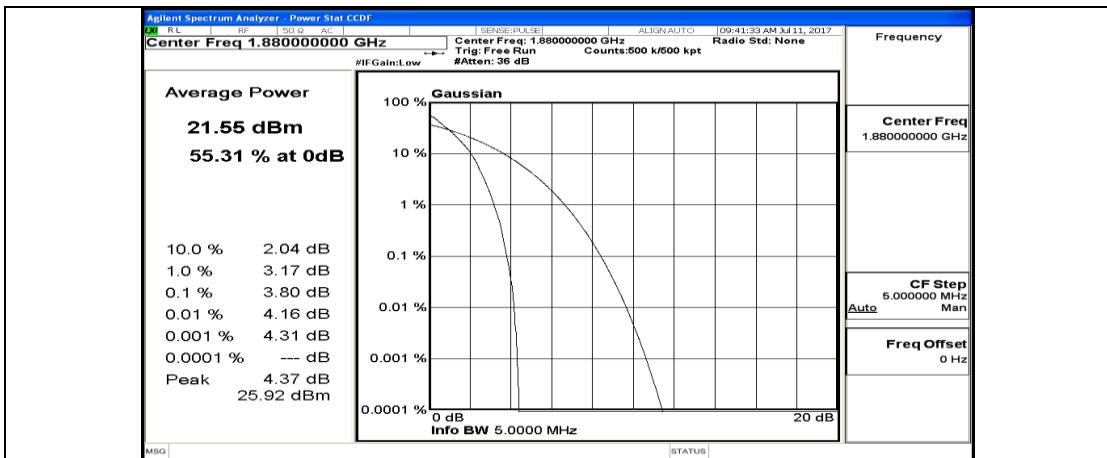


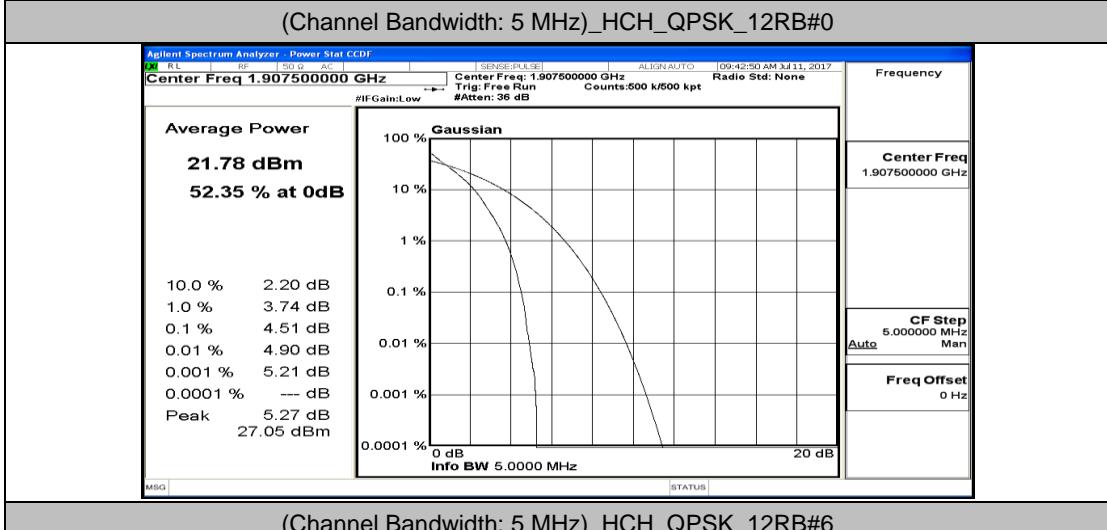
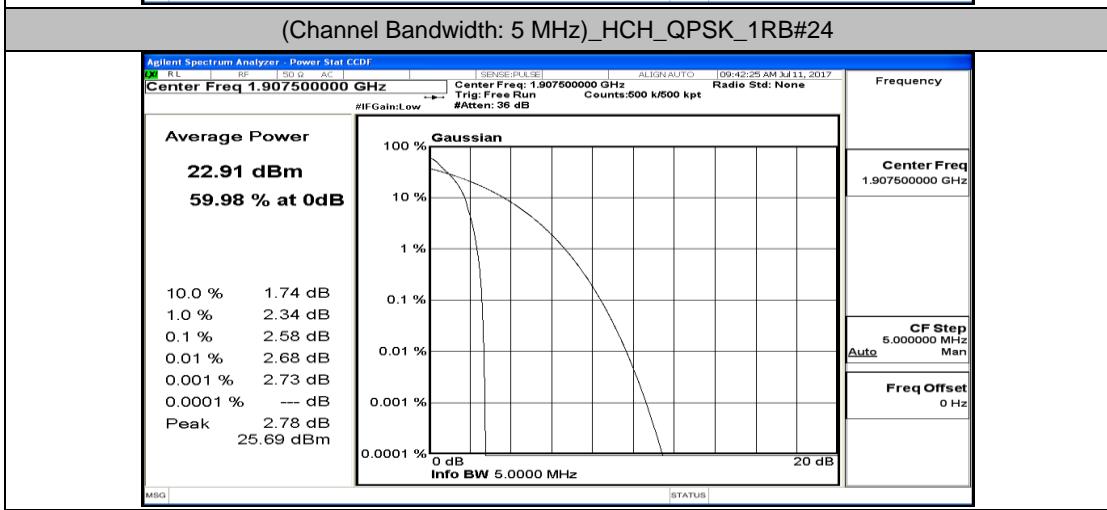
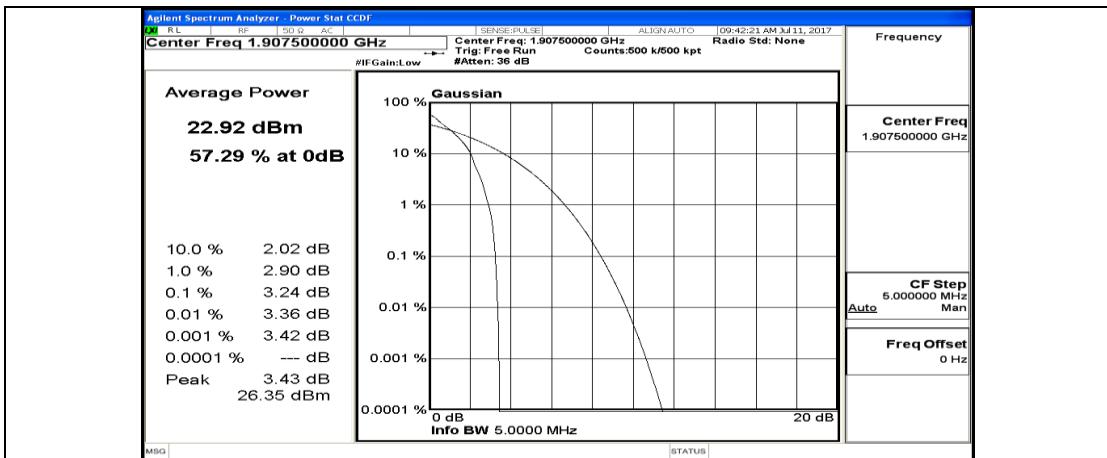


(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#24

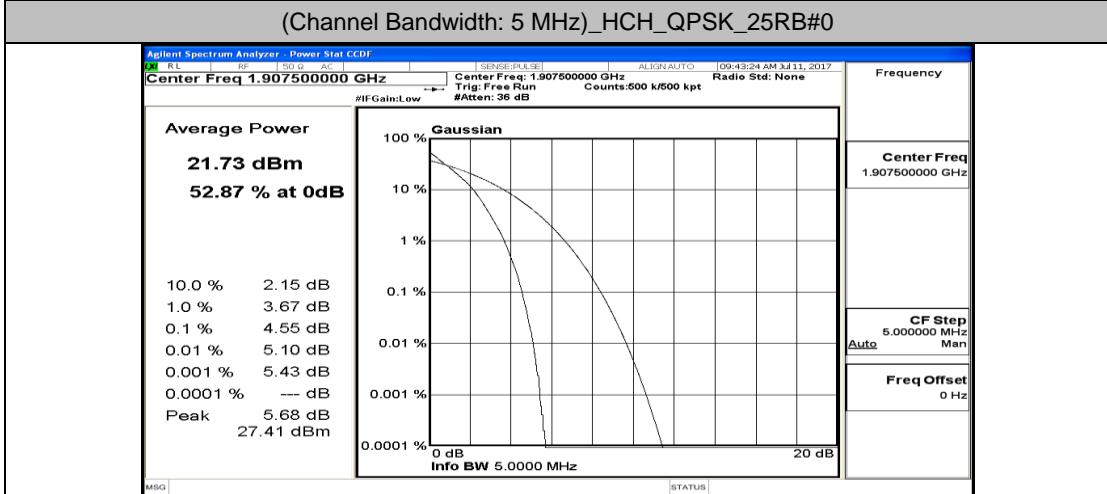
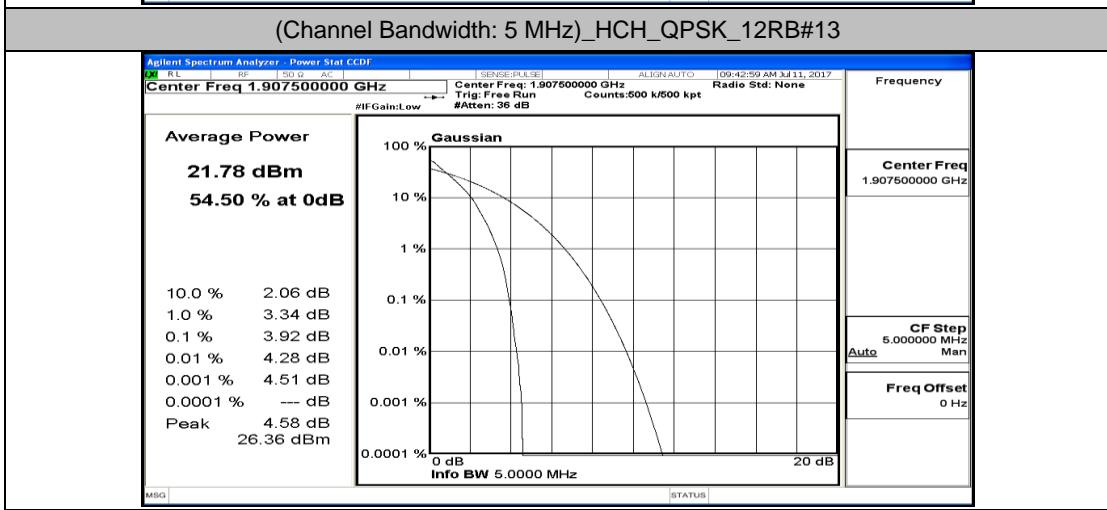
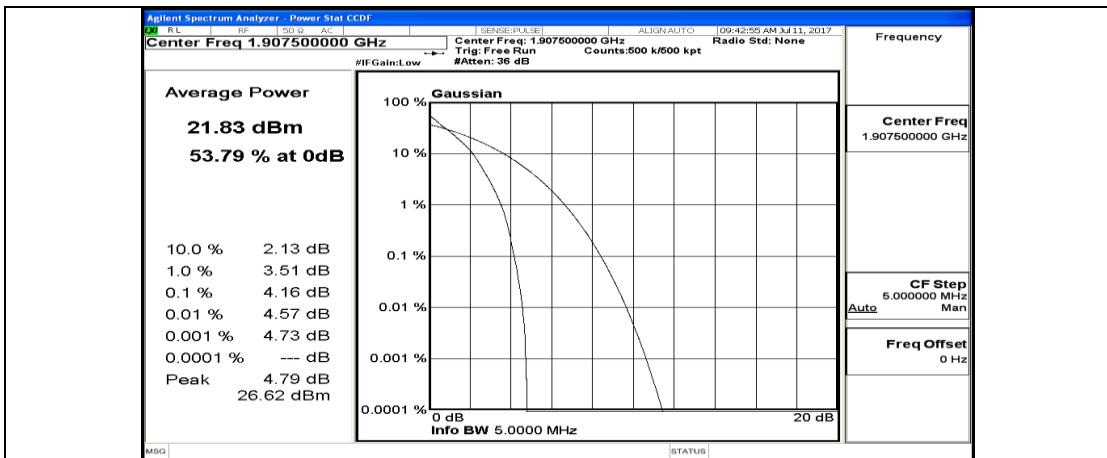


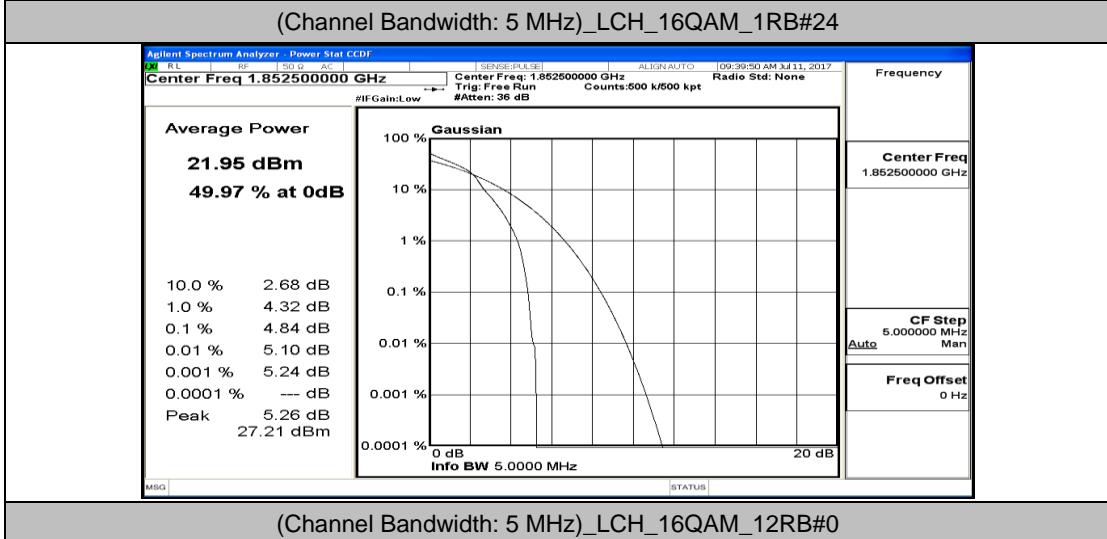
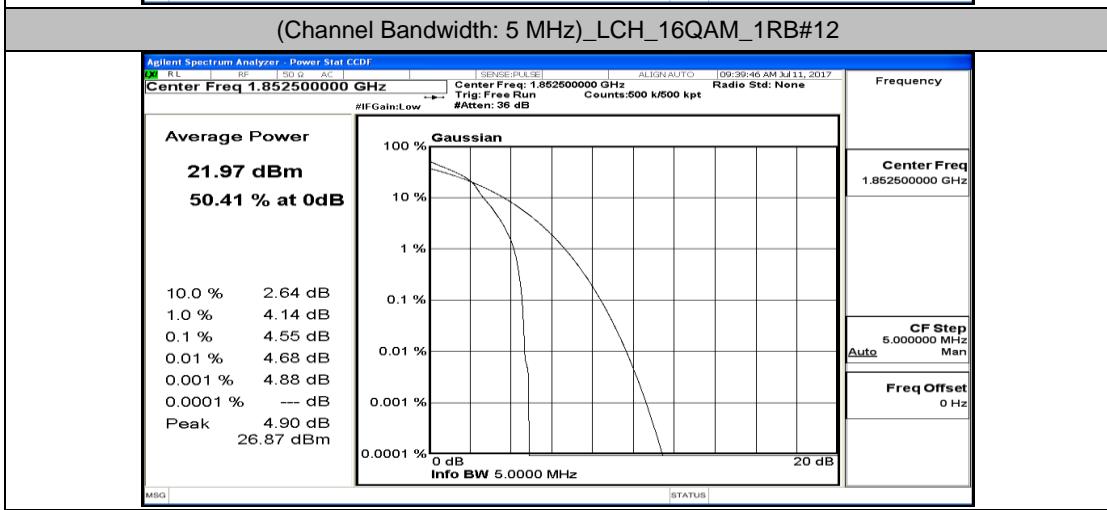
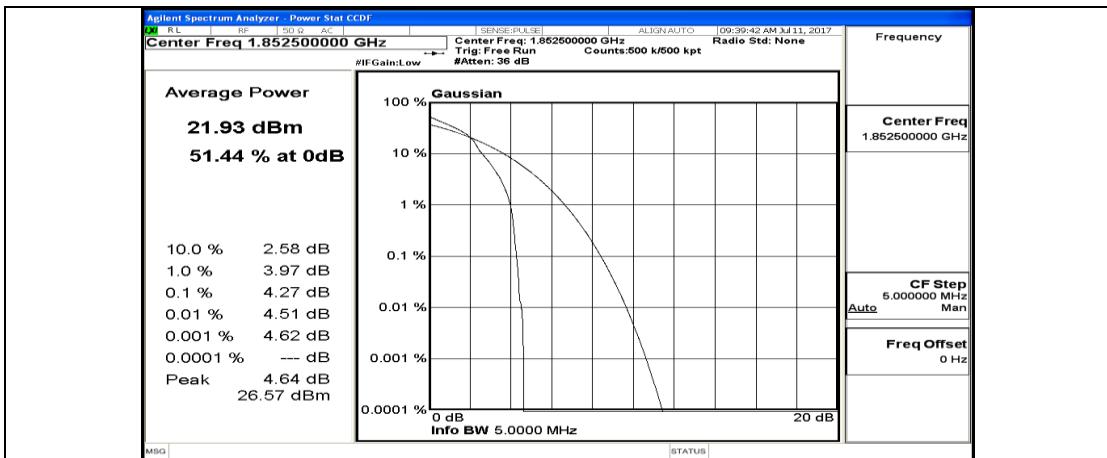
(Channel Bandwidth: 5 MHz)_MCH_QPSK_12RB#13

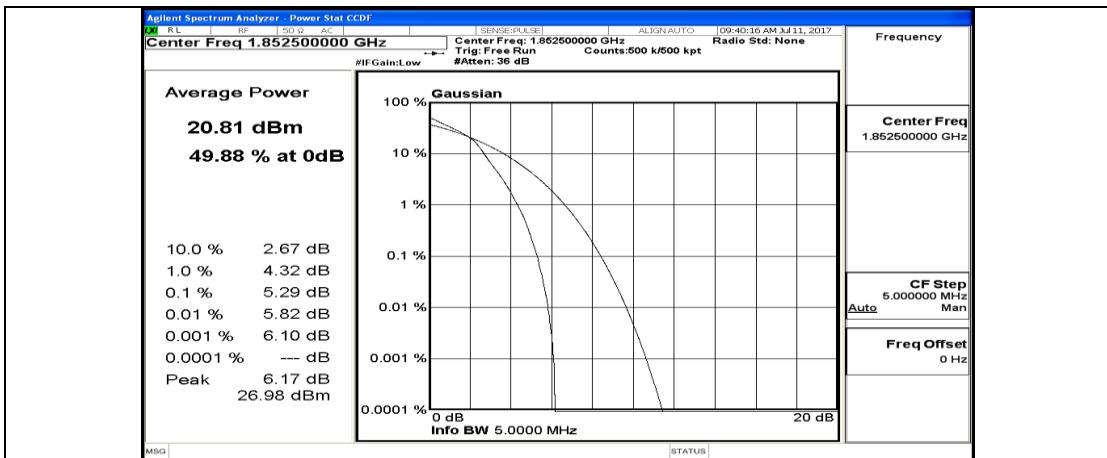




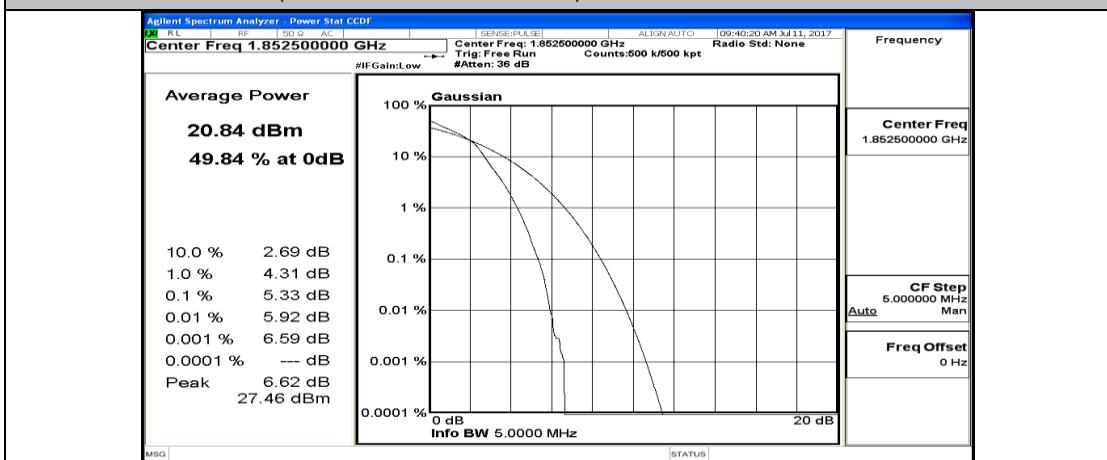
(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#6



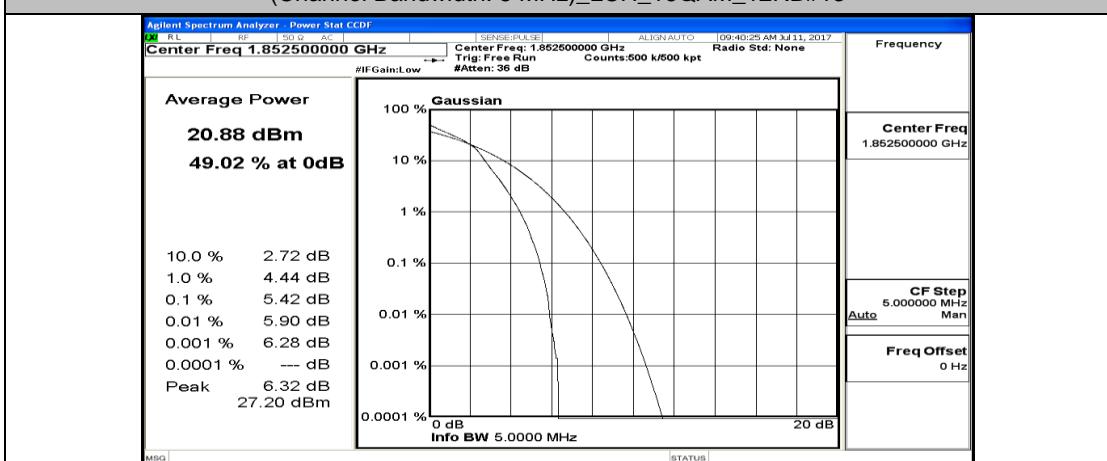




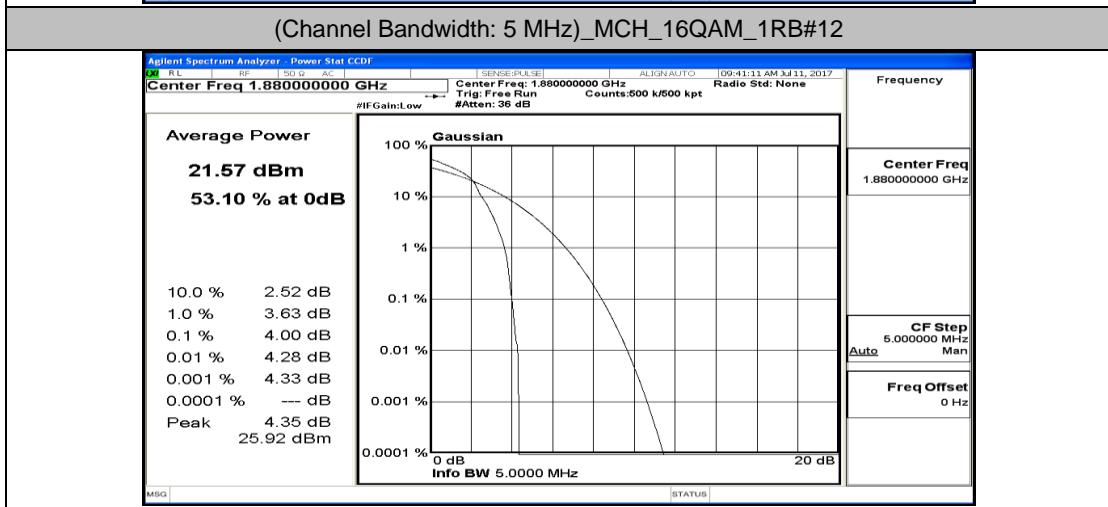
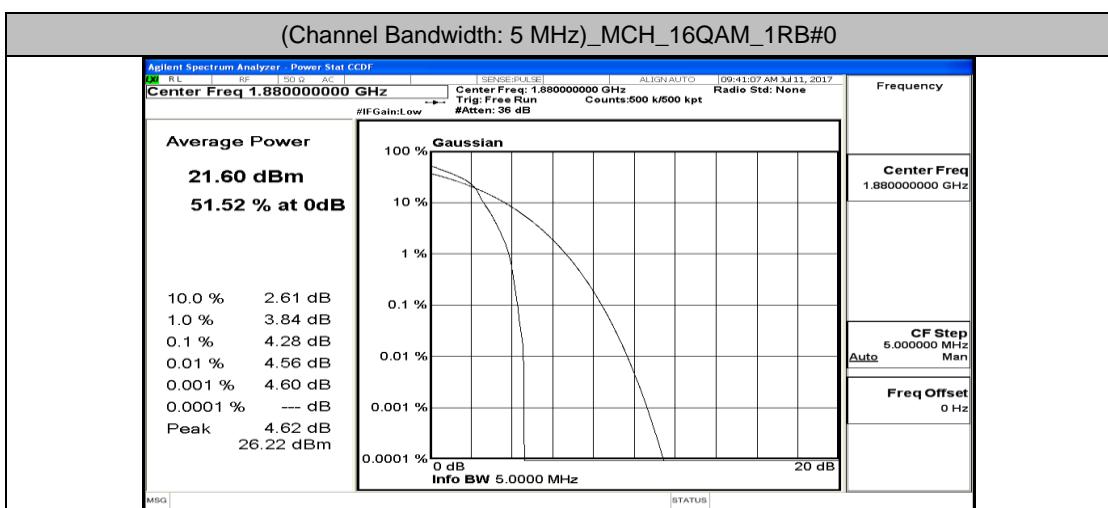
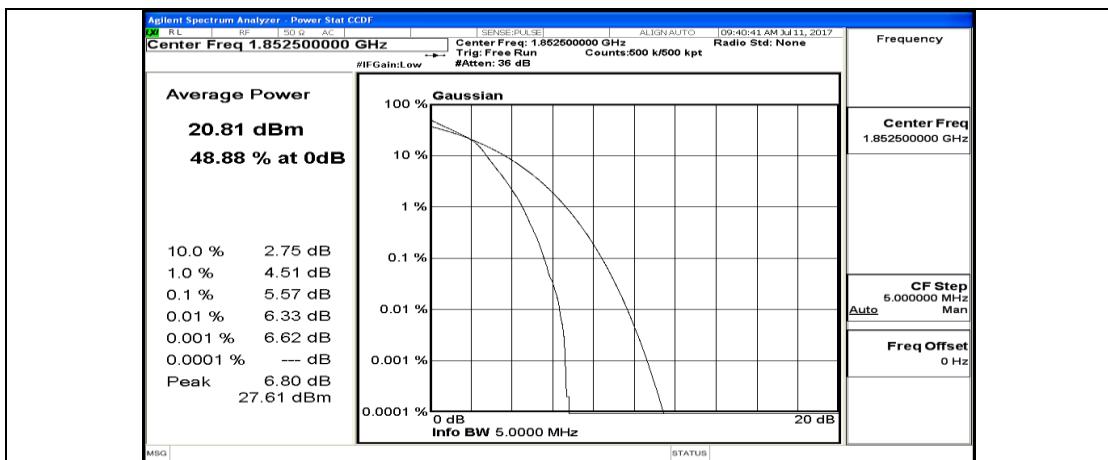
(Channel Bandwidth: 5 MHz)_LCH_16QAM_12RB#6



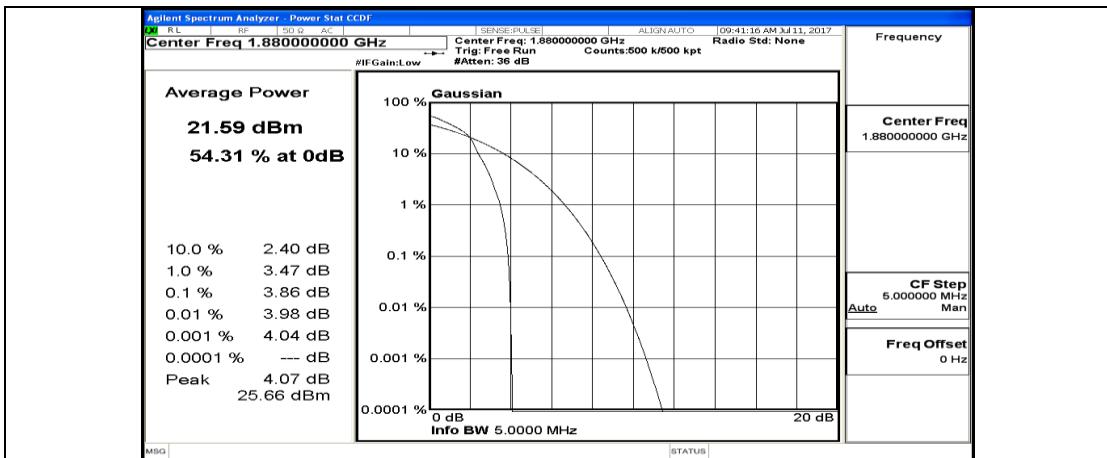
(Channel Bandwidth: 5 MHz)_LCH_16QAM_12RB#13



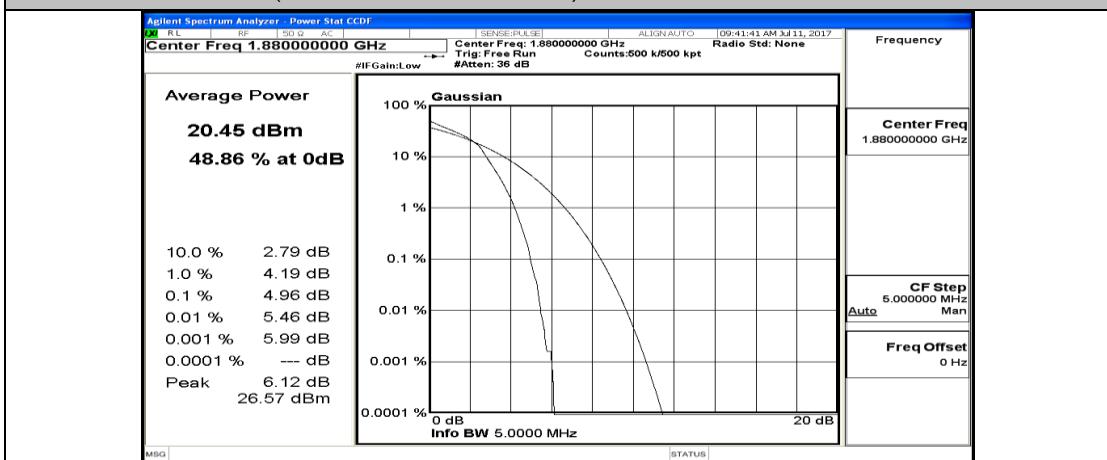
(Channel Bandwidth: 5 MHz)_LCH_16QAM_25RB#0



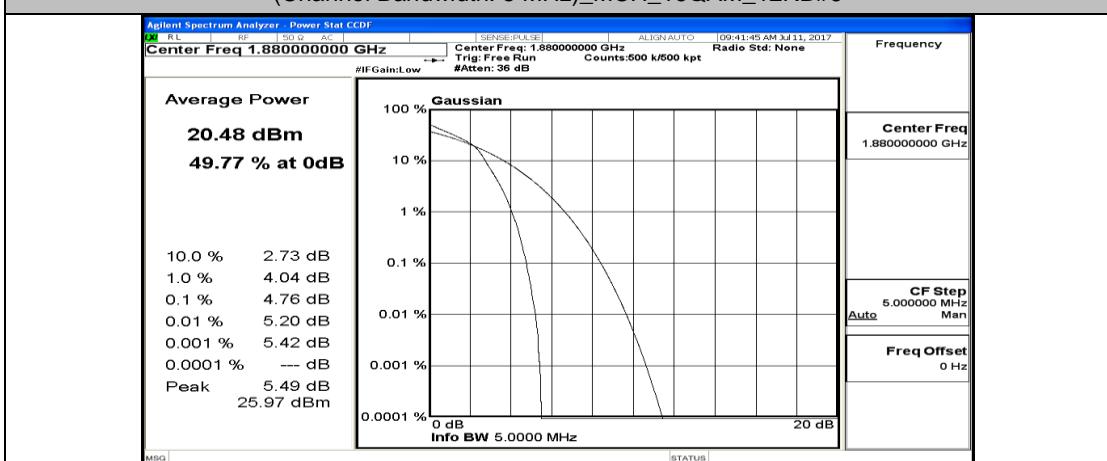
(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#24



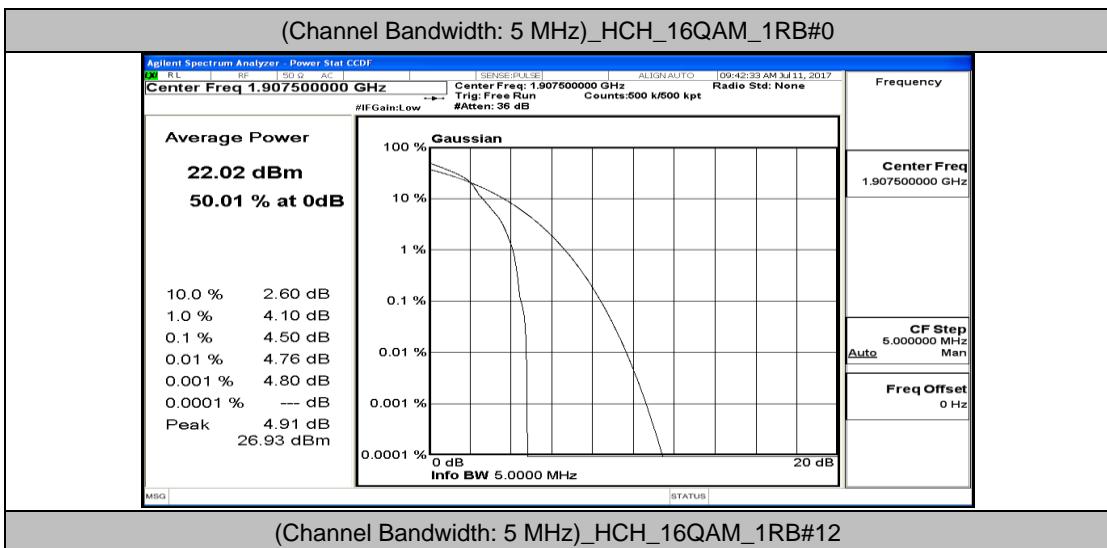
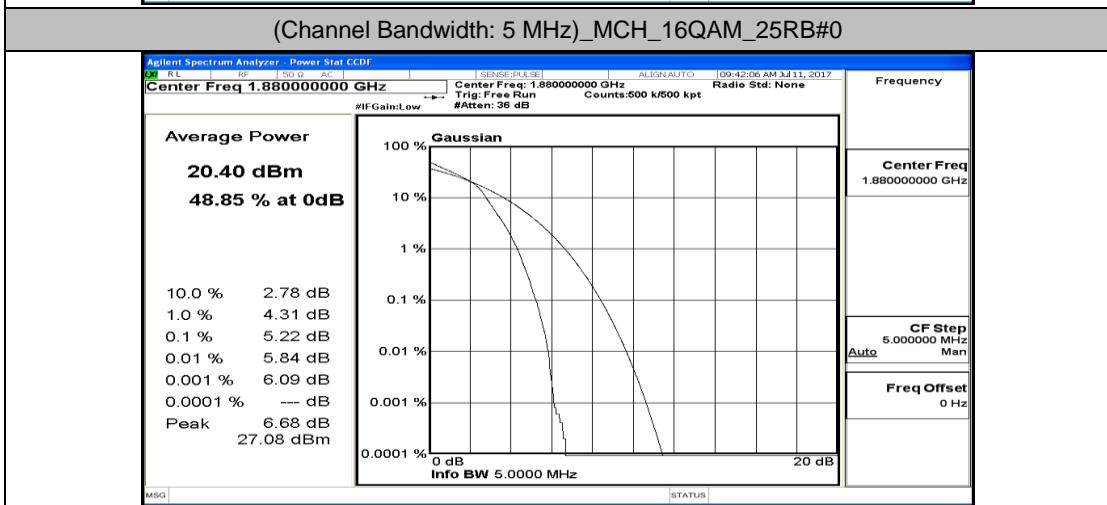
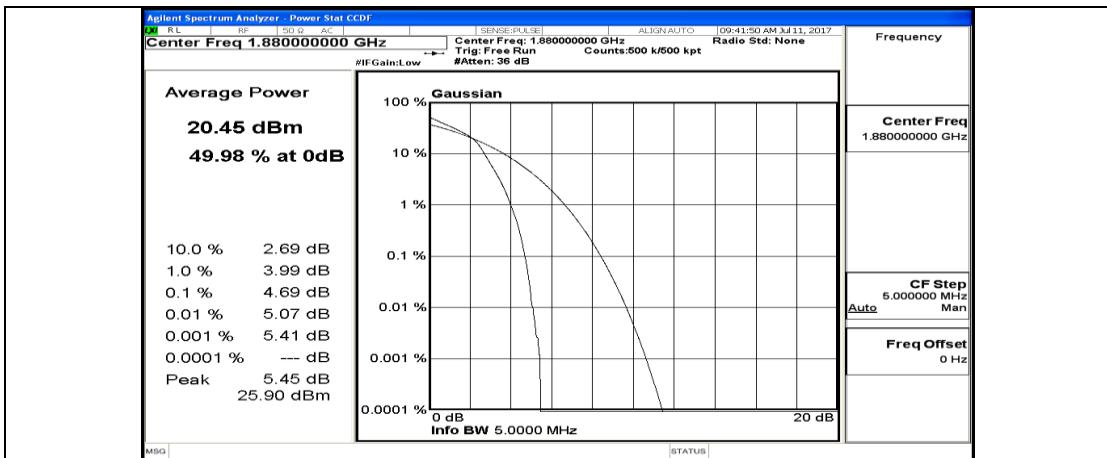
(Channel Bandwidth: 5 MHz)_MCH_16QAM_12RB#0

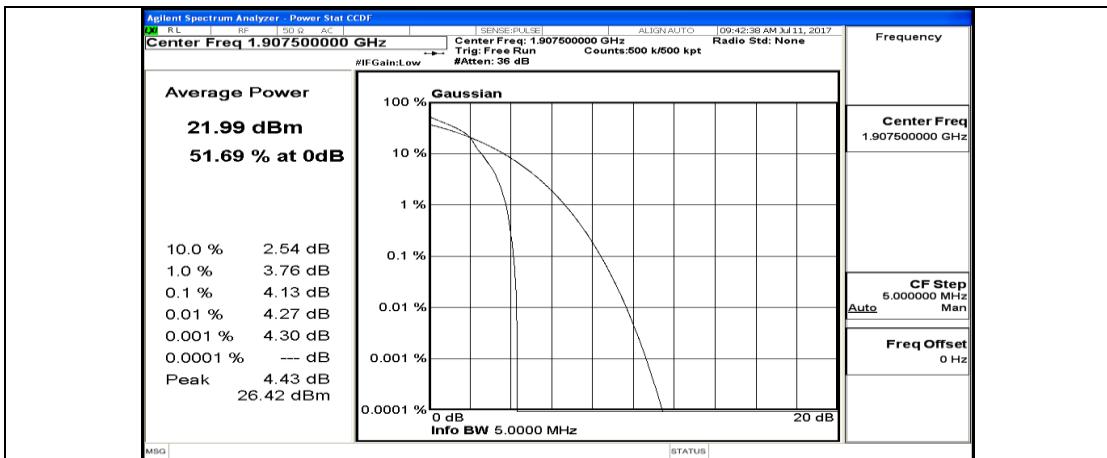


(Channel Bandwidth: 5 MHz)_MCH_16QAM_12RB#6

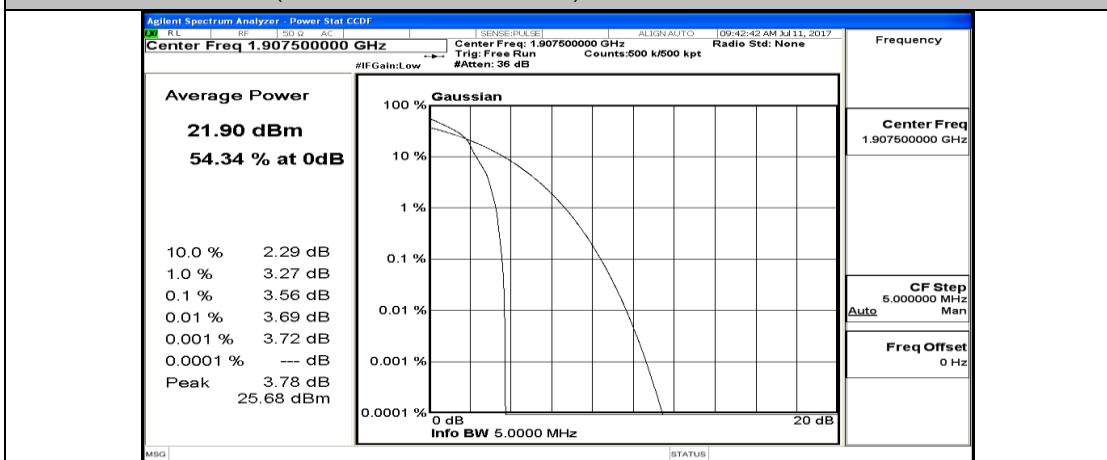


(Channel Bandwidth: 5 MHz)_MCH_16QAM_12RB#13

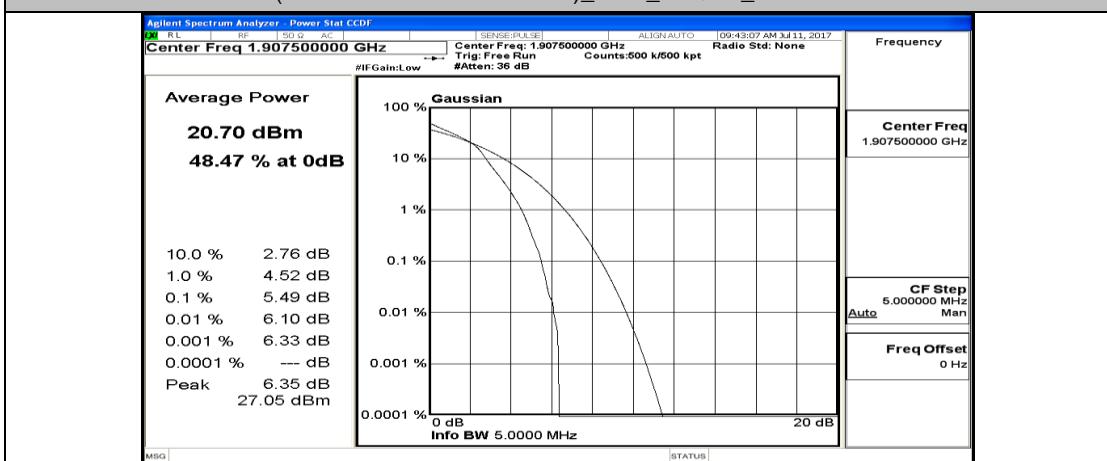




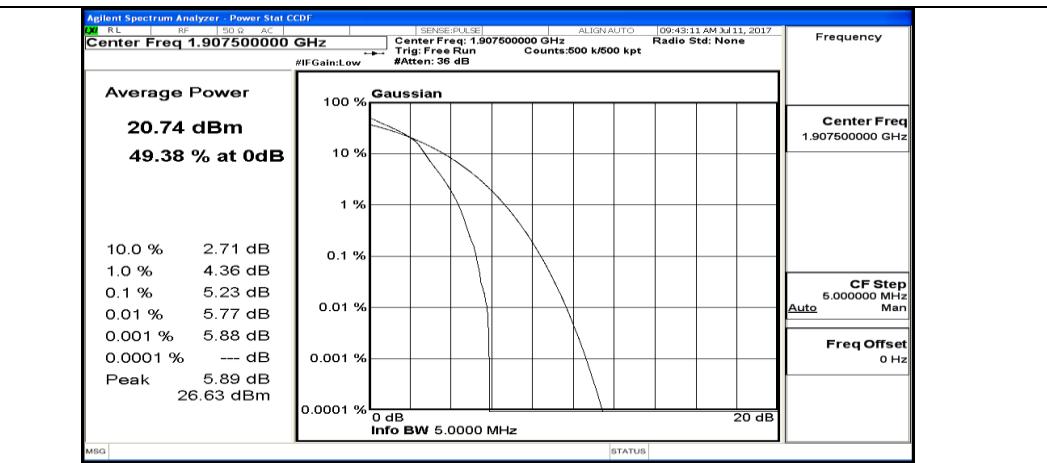
(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#24



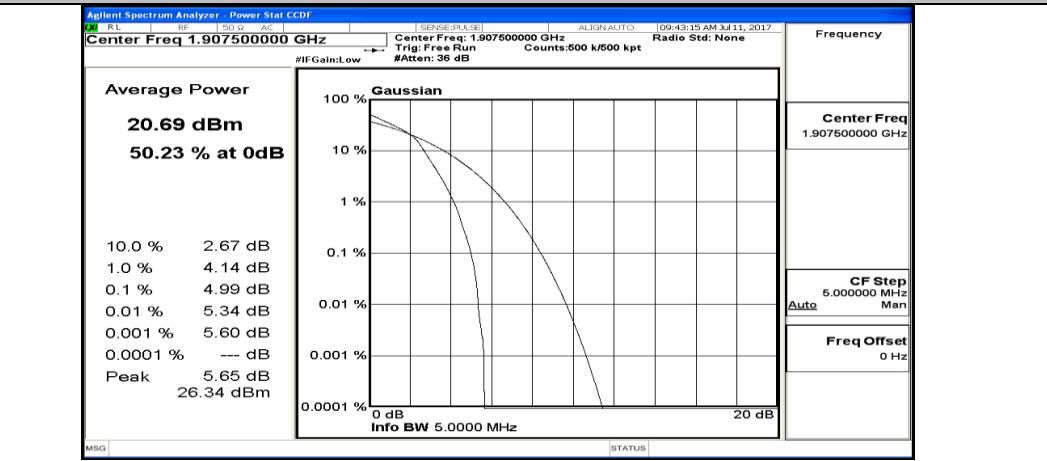
(Channel Bandwidth: 5 MHz)_HCH_16QAM_12RB#0



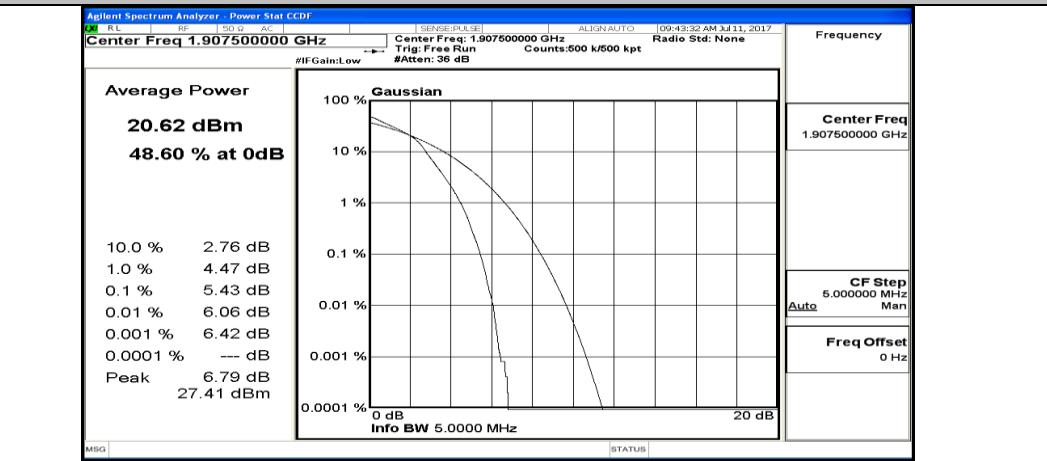
(Channel Bandwidth: 5 MHz)_HCH_16QAM_12RB#6



(Channel Bandwidth: 5 MHz)_HCH_16QAM_12RB#13



(Channel Bandwidth: 5 MHz)_HCH_16QAM_25RB#0



Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#0

