

Appendix B: 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	3.6	<13	PASS
		1	3	3.58	<13	PASS
		1	5	3.51	<13	PASS
		3	0	3.72	<13	PASS
		3	2	3.69	<13	PASS
		3	3	3.76	<13	PASS
		6	0	4.11	<13	PASS
	MCH	1	0	3.67	<13	PASS
		1	3	3.72	<13	PASS
		1	5	3.77	<13	PASS
		3	0	4.05	<13	PASS
		3	2	3.92	<13	PASS
		3	3	4	<13	PASS
		6	0	4.34	<13	PASS
16QAM	LCH	1	0	4.52	<13	PASS
		1	3	4.49	<13	PASS
		1	5	4.48	<13	PASS
		3	0	4.7	<13	PASS
		3	2	4.61	<13	PASS
		3	3	4.62	<13	PASS
		6	0	4.9	<13	PASS
	MCH	1	0	3.98	<13	PASS
		1	3	3.87	<13	PASS
		1	5	3.99	<13	PASS
		3	0	4.06	<13	PASS
		3	2	4.01	<13	PASS
		3	3	4.05	<13	PASS
		6	0	5.72	<13	PASS

		6	0	6.1	<13	PASS
HCH	HCH	1	0	4.93	<13	PASS
		1	3	4.87	<13	PASS
		1	5	4.72	<13	PASS
		3	0	4.97	<13	PASS
		3	2	4.99	<13	PASS
		3	3	5.04	<13	PASS
		6	0	6.72	<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	3.5	<13	PASS
		1	7	3.44	<13	PASS
		1	14	3.63	<13	PASS
		8	0	4.11	<13	PASS
		8	4	4.1	<13	PASS
		8	7	4.14	<13	PASS
		15	0	4.14	<13	PASS
	MCH	1	0	3.61	<13	PASS
		1	7	3.7	<13	PASS
		1	14	3.69	<13	PASS
		8	0	4.31	<13	PASS
		8	4	4.34	<13	PASS
		8	7	4.36	<13	PASS
		15	0	4.3	<13	PASS
	HCH	1	0	4.22	<13	PASS
		1	7	4.41	<13	PASS
		1	14	4.11	<13	PASS
		8	0	4.95	<13	PASS
		8	4	4.98	<13	PASS
		8	7	4.89	<13	PASS
		15	0	4.98	<13	PASS
16QAM	LCH	1	0	4.14	<13	PASS
		1	7	4.12	<13	PASS
		1	14	4.27	<13	PASS
		8	0	5.57	<13	PASS
		8	4	5.61	<13	PASS
		8	7	5.61	<13	PASS
		15	0	5.84	<13	PASS

	MCH	1	0	4.33	<13	PASS
		1	7	4.46	<13	PASS
		1	14	4.42	<13	PASS
		8	0	5.8	<13	PASS
		8	4	5.82	<13	PASS
		8	7	5.91	<13	PASS
		15	0	5.97	<13	PASS
	HCH	1	0	5.58	<13	PASS
		1	7	5.29	<13	PASS
		1	14	5.17	<13	PASS
		8	0	6.43	<13	PASS
		8	4	6.55	<13	PASS
		8	7	6.47	<13	PASS
		15	0	6.63	<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	3.32	<13	PASS
		1	12	3.48	<13	PASS
		1	24	3.64	<13	PASS
		12	0	4.19	<13	PASS
		12	6	4.23	<13	PASS
		12	13	4.36	<13	PASS
		25	0	4.16	<13	PASS
	MCH	1	0	3.45	<13	PASS
		1	12	3.59	<13	PASS
		1	24	3.54	<13	PASS
		12	0	4.31	<13	PASS
		12	6	4.34	<13	PASS
		12	13	4.41	<13	PASS
		25	0	4.26	<13	PASS
	HCH	1	0	4.39	<13	PASS
		1	12	4.39	<13	PASS
		1	24	4.4	<13	PASS
		12	0	4.94	<13	PASS
		12	6	4.91	<13	PASS
		12	13	4.93	<13	PASS
		25	0	4.84	<13	PASS
16QAM	LCH	1	0	4.27	<13	PASS

		1	12	4.38	<13	PASS
		1	24	4.99	<13	PASS
		12	0	5.68	<13	PASS
		12	6	5.79	<13	PASS
		12	13	6.16	<13	PASS
		25	0	5.88	<13	PASS
MCH	MCH	1	0	4.47	<13	PASS
		1	12	4.53	<13	PASS
		1	24	4.63	<13	PASS
		12	0	5.85	<13	PASS
		12	6	5.93	<13	PASS
		12	13	6.13	<13	PASS
		25	0	5.96	<13	PASS
HCH	HCH	1	0	4.92	<13	PASS
		1	12	5.07	<13	PASS
		1	24	4.85	<13	PASS
		12	0	6.61	<13	PASS
		12	6	6.67	<13	PASS
		12	13	6.67	<13	PASS
		25	0	6.52	<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	3.62	<13	PASS
		1	24	4.08	<13	PASS
		1	49	4.63	<13	PASS
		25	0	4.27	<13	PASS
		25	12	4.5	<13	PASS
		25	25	4.82	<13	PASS
		50	0	4.57	<13	PASS
QPSK	MCH	1	0	3.84	<13	PASS
		1	24	3.85	<13	PASS
		1	49	4.18	<13	PASS
		25	0	4.21	<13	PASS
		25	12	4.25	<13	PASS
		25	25	4.38	<13	PASS
		50	0	4.29	<13	PASS
QPSK	HCH	1	0	4.42	<13	PASS
		1	24	4.38	<13	PASS

		1	49	4.44	<13	PASS
		25	0	4.76	<13	PASS
		25	12	4.84	<13	PASS
		25	25	4.88	<13	PASS
		50	0	4.93	<13	PASS
16QAM	LCH	1	0	4.26	<13	PASS
		1	24	4.63	<13	PASS
		1	49	5.47	<13	PASS
		25	0	5.99	<13	PASS
		25	12	6.27	<13	PASS
		25	25	6.52	<13	PASS
		50	0	6.17	<13	PASS
	MCH	1	0	4.4	<13	PASS
		1	24	4.46	<13	PASS
		1	49	4.75	<13	PASS
		25	0	5.58	<13	PASS
		25	12	5.86	<13	PASS
		25	25	6.14	<13	PASS
		50	0	5.8	<13	PASS
	HCH	1	0	4.98	<13	PASS
		1	24	5.04	<13	PASS
		1	49	5.16	<13	PASS
		25	0	5.74	<13	PASS
		25	12	6.08	<13	PASS
		25	25	6.39	<13	PASS
		50	0	6.02	<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	3.57	<13	PASS
		1	37	4.46	<13	PASS
		1	74	4.92	<13	PASS
		37	0	4.39	<13	PASS
		37	18	4.76	<13	PASS
		37	38	5.17	<13	PASS
		75	0	5.21	<13	PASS
	MCH	1	0	3.97	<13	PASS
		1	37	3.75	<13	PASS
		1	74	4.48	<13	PASS

16QAM	HCH	37	0	4.27	<13	PASS
		37	18	4.15	<13	PASS
		37	38	4.44	<13	PASS
		75	0	4.82	<13	PASS
		1	0	5.04	<13	PASS
		1	37	4.41	<13	PASS
		1	74	4.53	<13	PASS
		37	0	4.84	<13	PASS
	LCH	37	18	4.71	<13	PASS
		37	38	4.81	<13	PASS
		75	0	5.18	<13	PASS
		1	0	4.23	<13	PASS
		1	37	5.13	<13	PASS
		1	74	5.79	<13	PASS
		37	0	6.17	<13	PASS
		37	18	6.4	<13	PASS
	MCH	37	38	6.6	<13	PASS
		75	0	6.45	<13	PASS
		1	0	4.64	<13	PASS
		1	37	4.39	<13	PASS
		1	74	5.31	<13	PASS
		37	0	5.77	<13	PASS
		37	18	5.82	<13	PASS
		37	38	6.22	<13	PASS
	HCH	75	0	6.12	<13	PASS
		1	0	5.85	<13	PASS
		1	37	5.1	<13	PASS
		1	74	5.18	<13	PASS
		37	0	6.04	<13	PASS
		37	18	5.97	<13	PASS
		37	38	6.21	<13	PASS
		75	0	6.16	<13	PASS

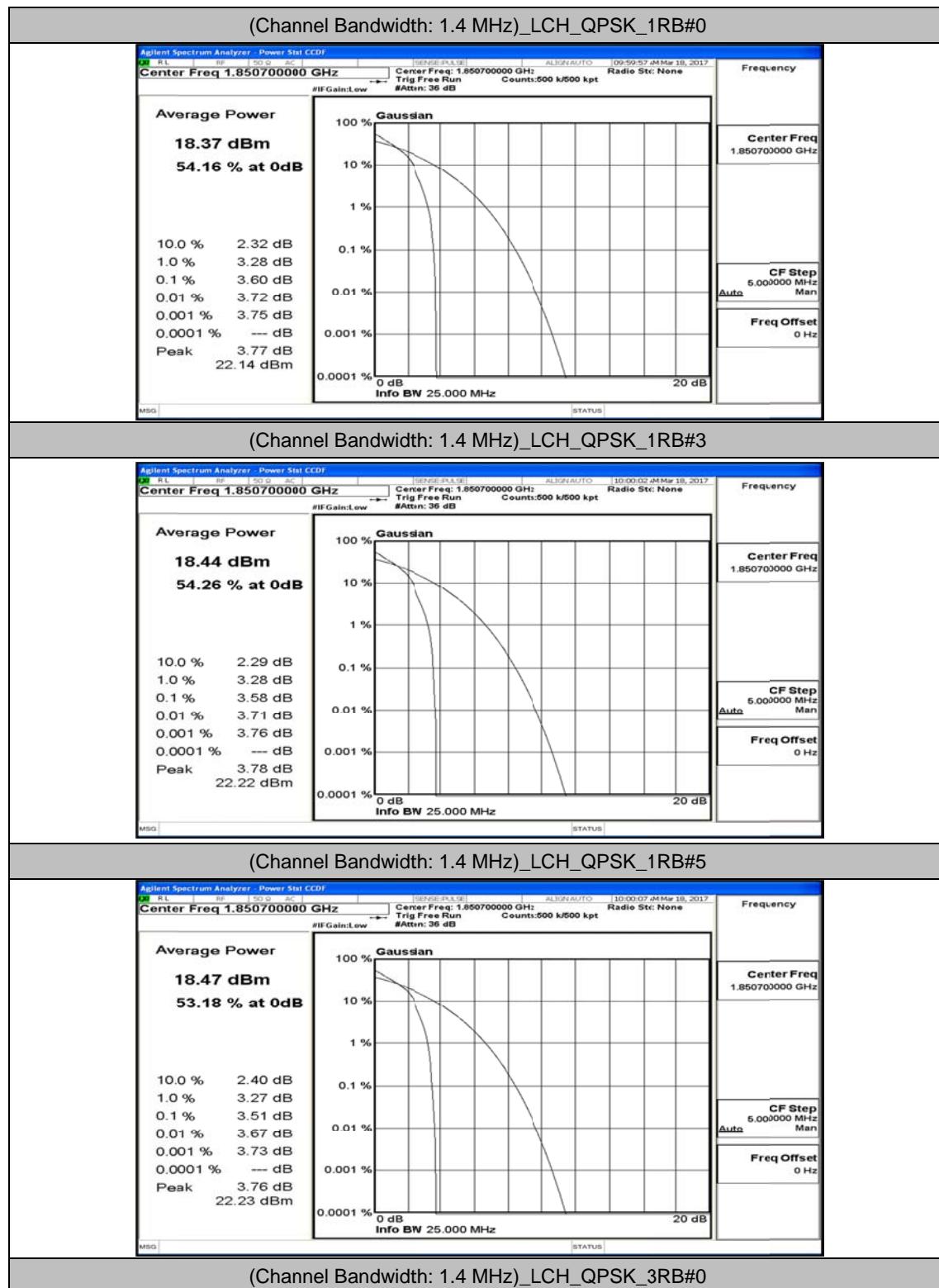
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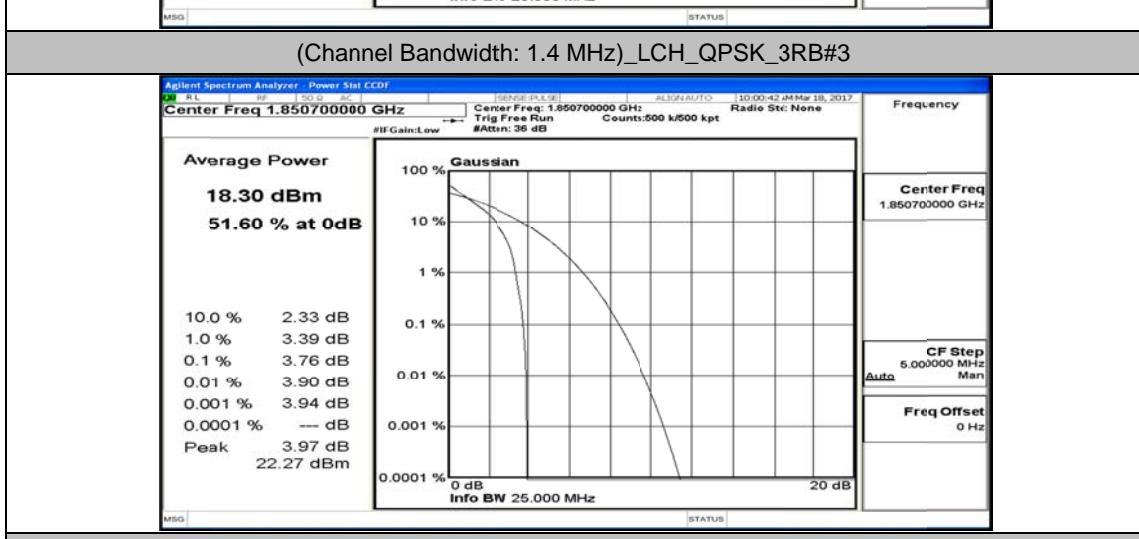
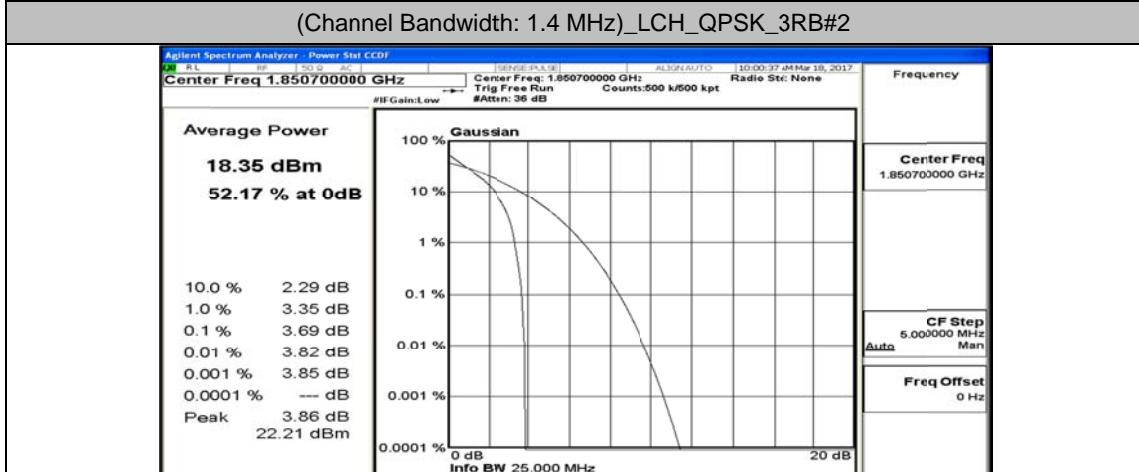
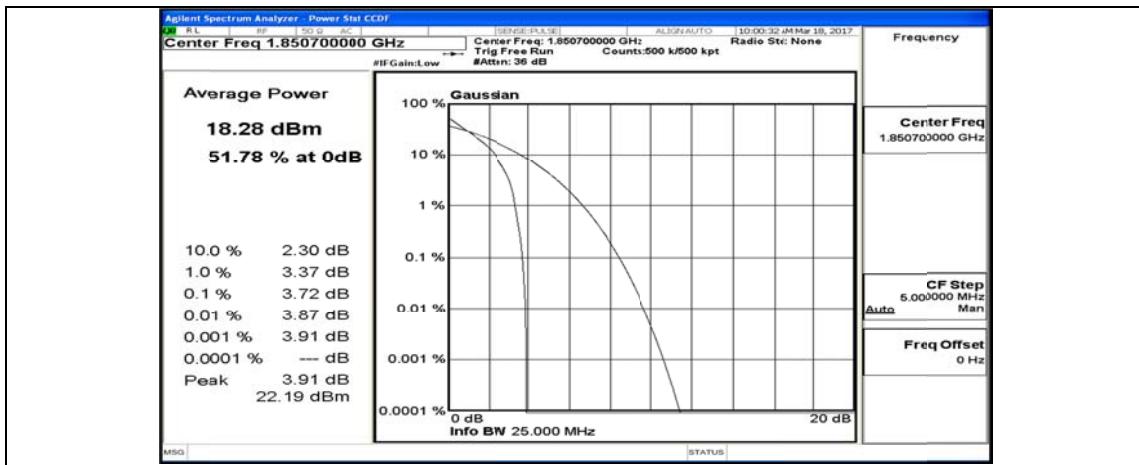
Channel Bandwidth: 20 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	LCH	1	0	3.6	<13	PASS
		1	49	4.71	<13	PASS
		1	99	4.56	<13	PASS
		50	0	4.65	<13	PASS

	MCH	50	25	5.01	<13	PASS
		50	50	5.27	<13	PASS
		100	0	5.18	<13	PASS
	HCH	1	0	4.3	<13	PASS
		1	49	3.8	<13	PASS
		1	99	4.74	<13	PASS
		50	0	4.49	<13	PASS
16QAM	LCH	50	25	4.23	<13	PASS
		50	50	4.72	<13	PASS
		100	0	5.07	<13	PASS
	MCH	1	0	5.11	<13	PASS
		1	49	4.68	<13	PASS
		1	99	4.62	<13	PASS
		50	0	5.16	<13	PASS
	HCH	50	25	4.85	<13	PASS
		50	50	4.93	<13	PASS
		100	0	5.18	<13	PASS
	LCH	1	0	4.18	<13	PASS
		1	49	5.51	<13	PASS
		1	99	5.11	<13	PASS
		50	0	6.3	<13	PASS
	MCH	50	25	6.53	<13	PASS
		50	50	6.49	<13	PASS
		100	0	6.37	<13	PASS
	HCH	1	0	4.7	<13	PASS
		1	49	4.61	<13	PASS
		1	99	5.06	<13	PASS
		50	0	5.81	<13	PASS

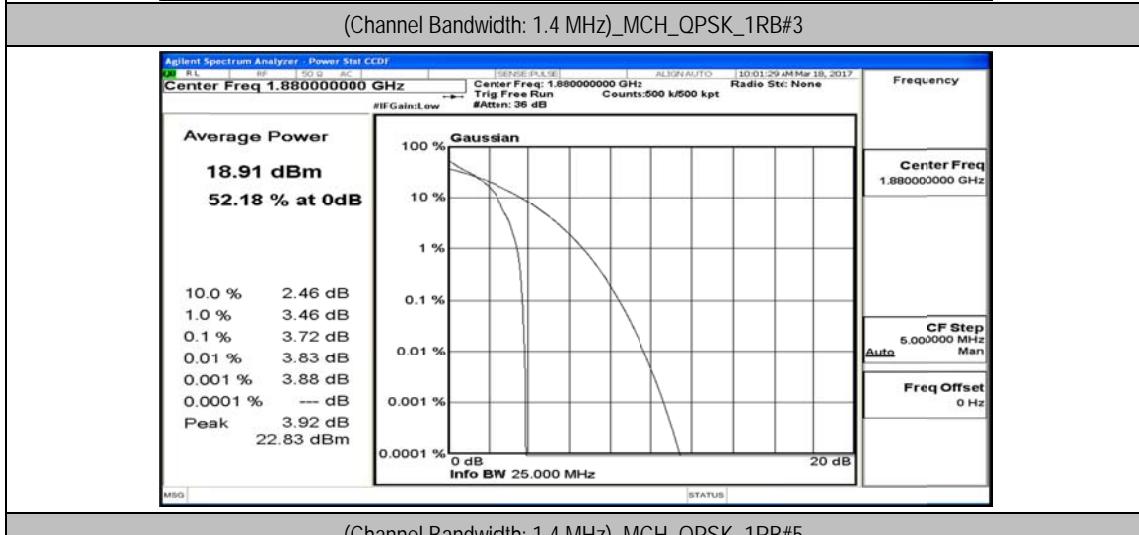
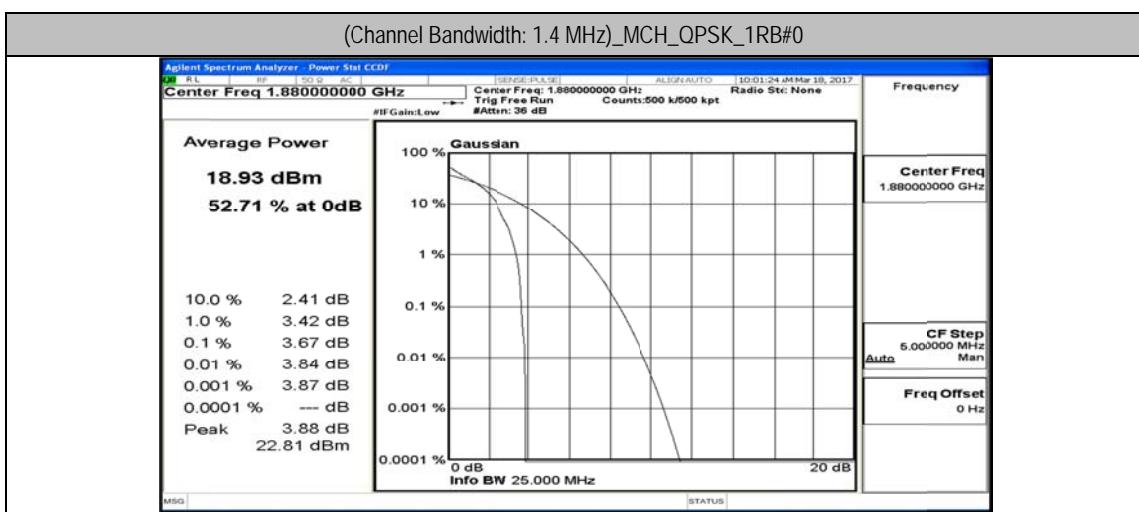
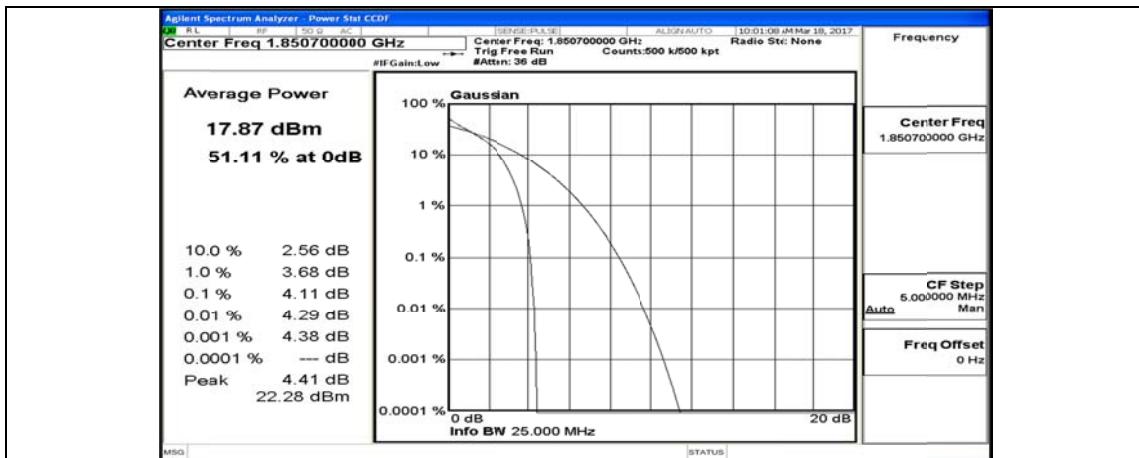
Test Graphs

Channel Bandwidth: 1.4 MHz

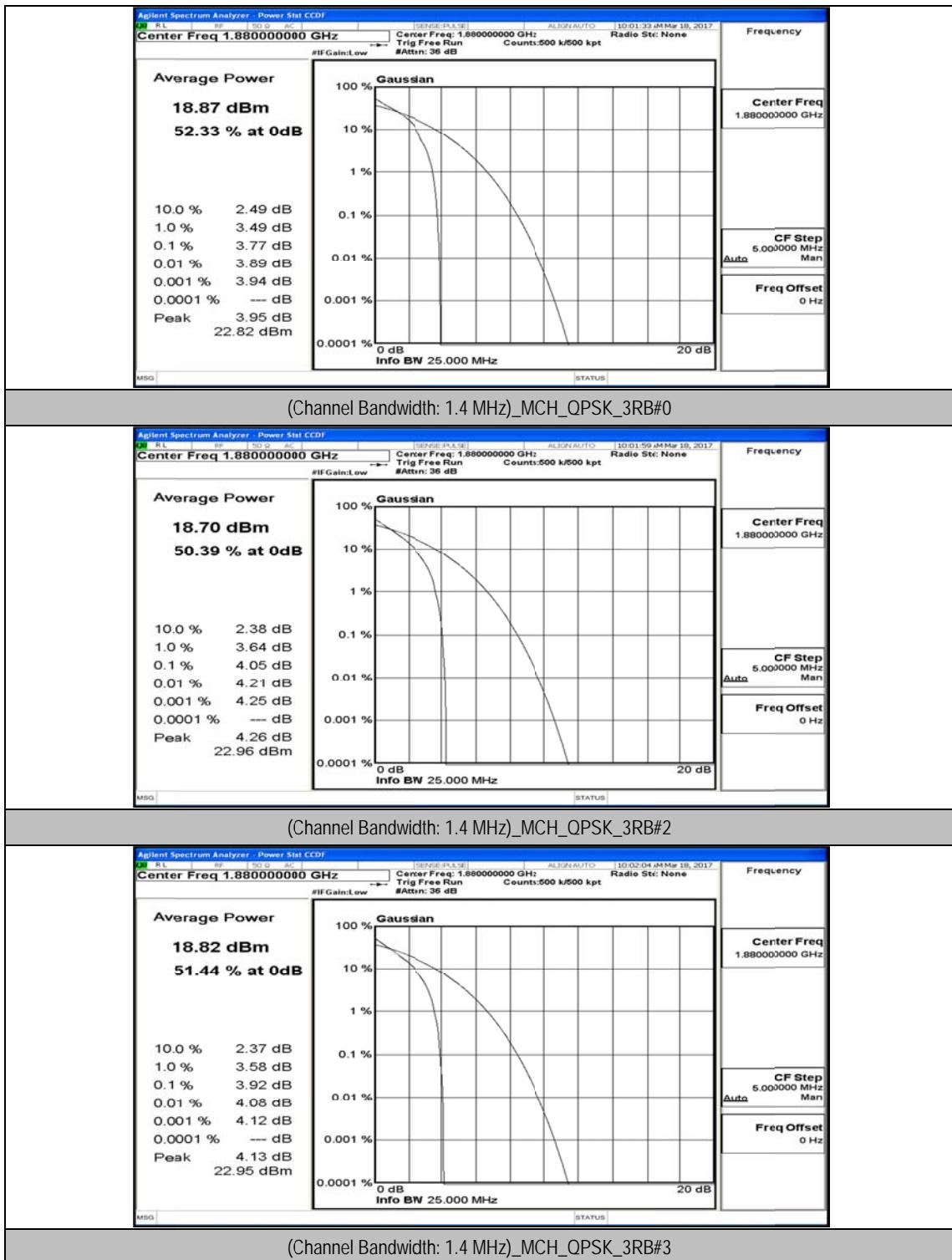


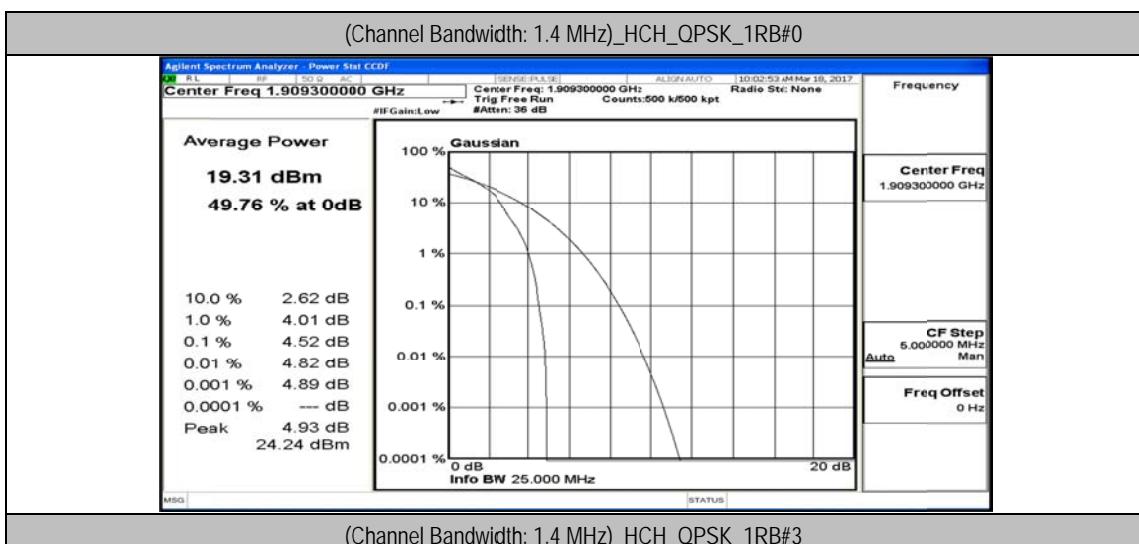
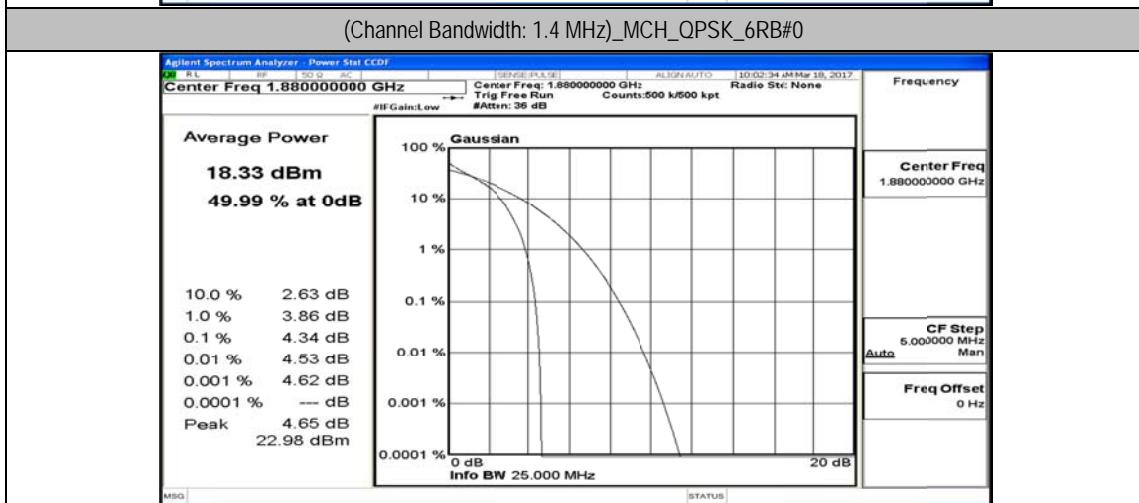
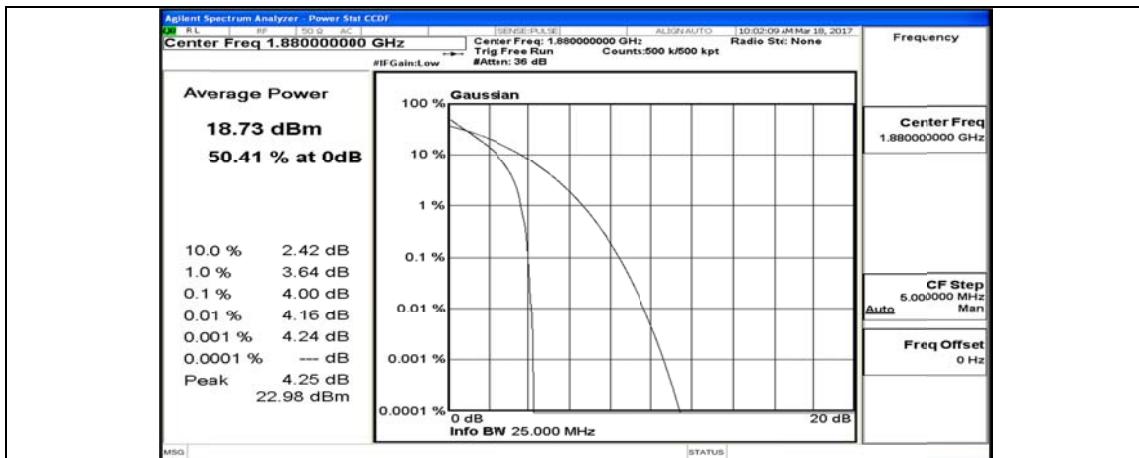


(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_6RB#0

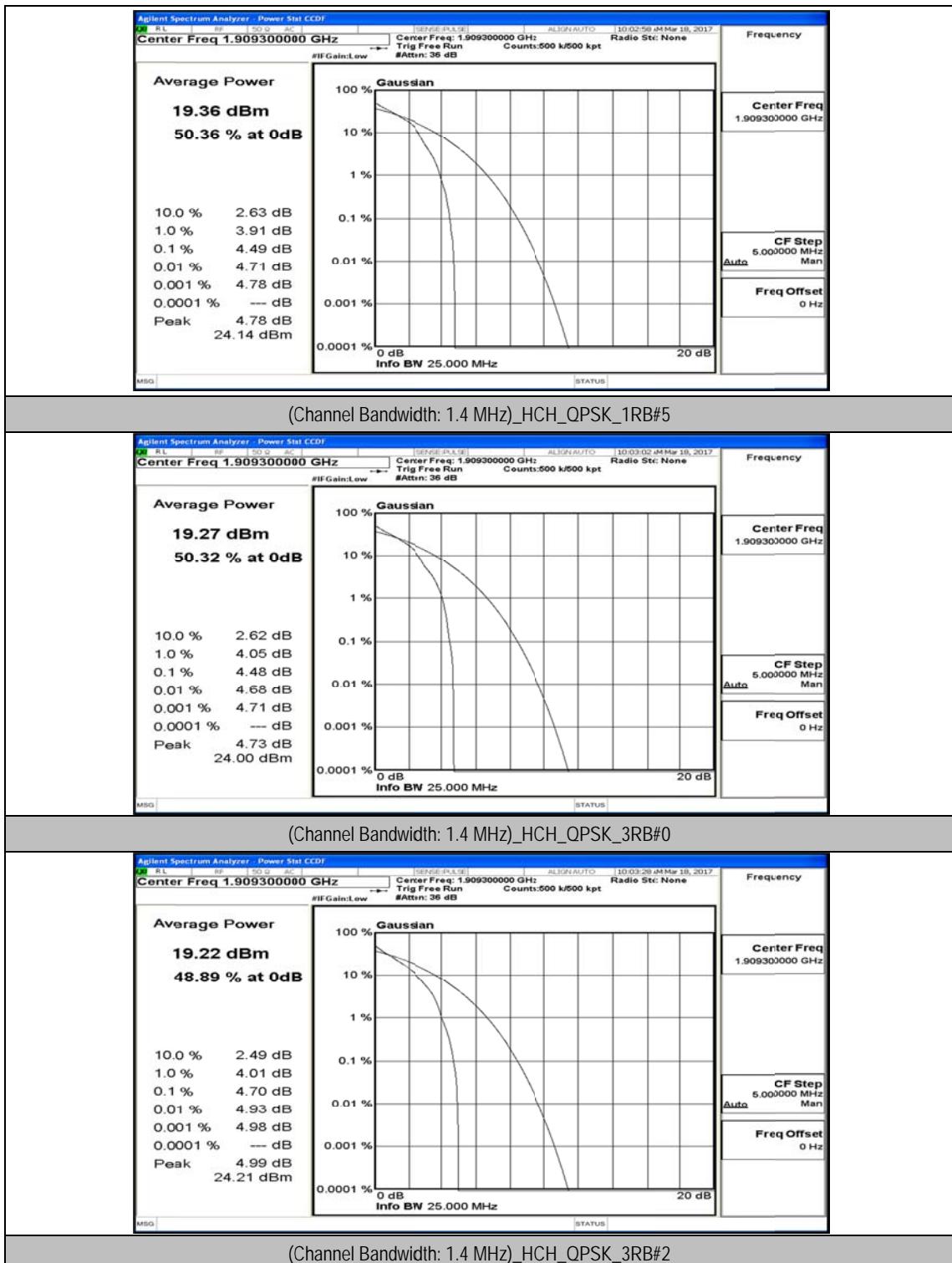


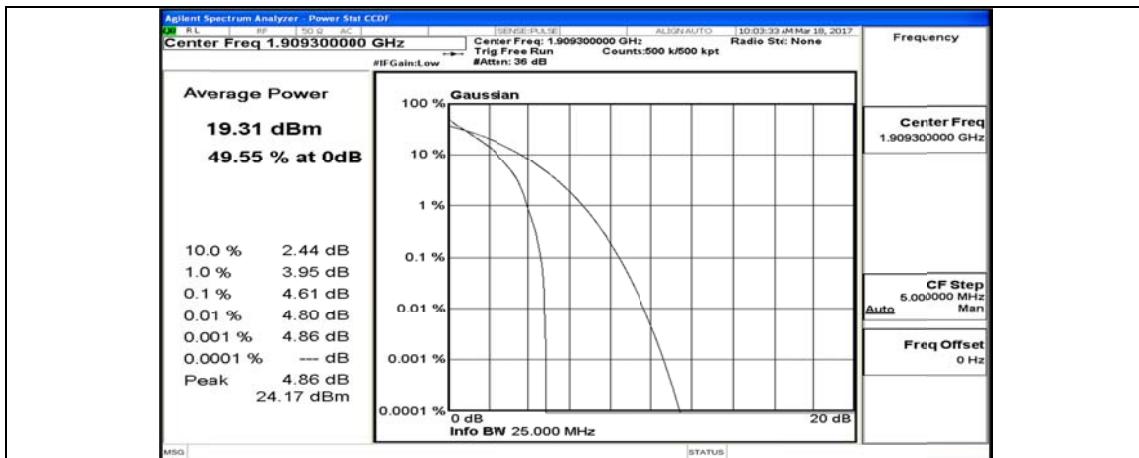
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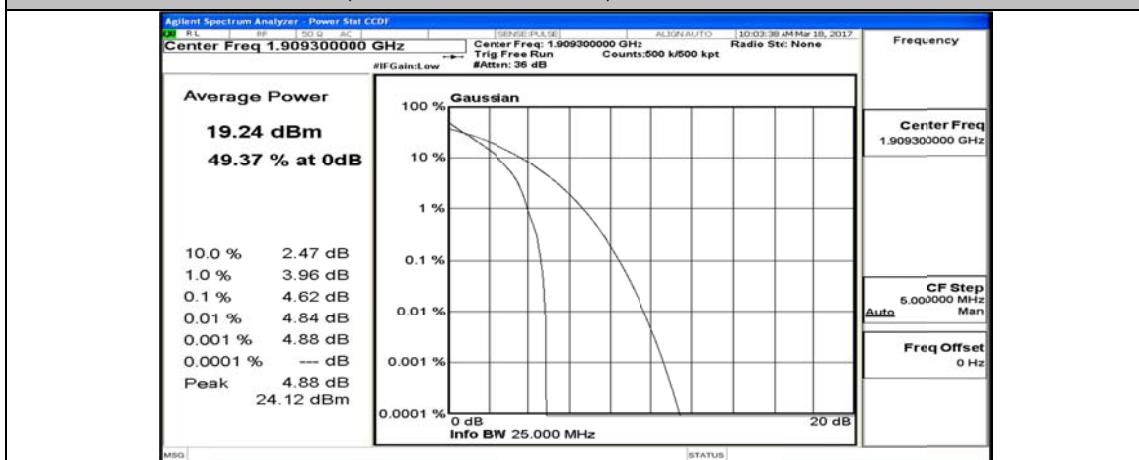


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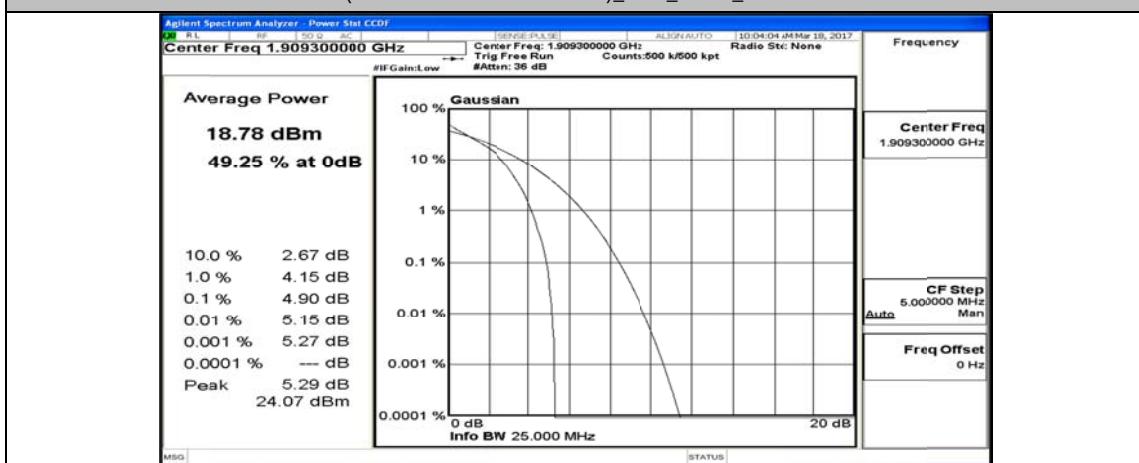




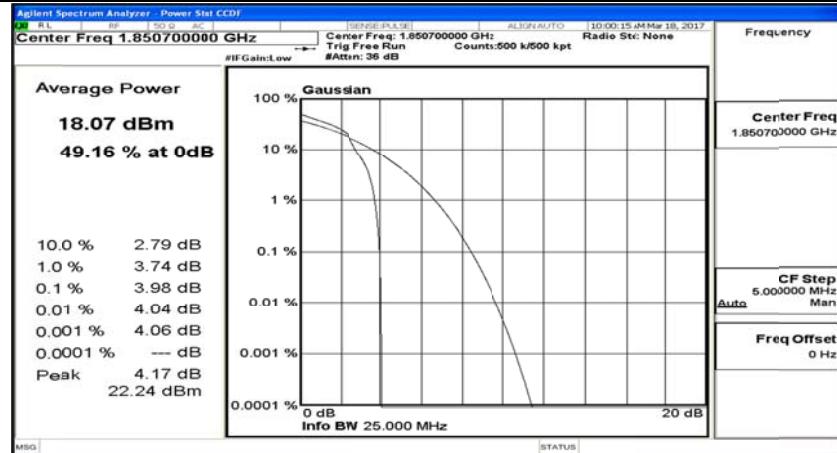
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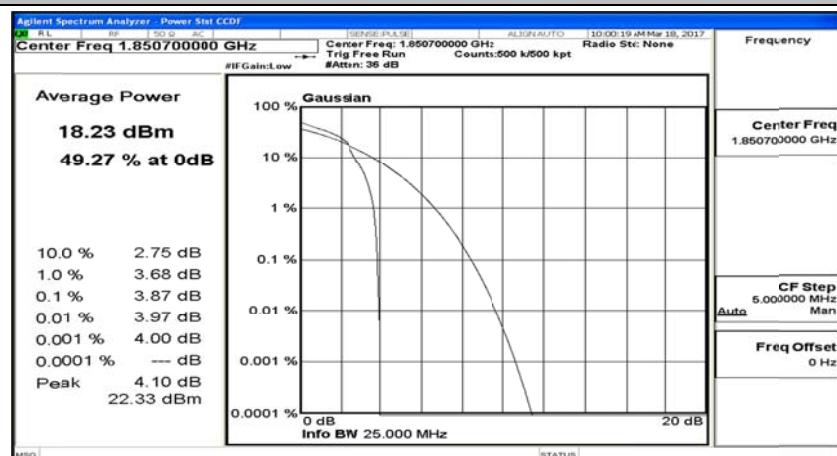
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_6RB#0



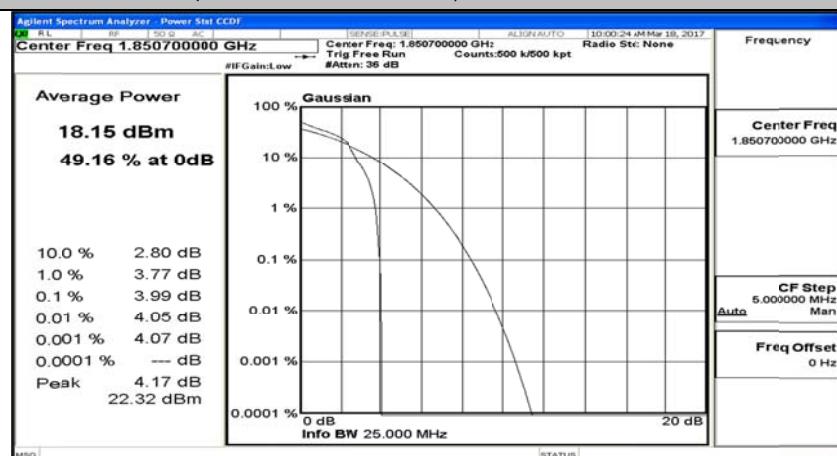
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#0



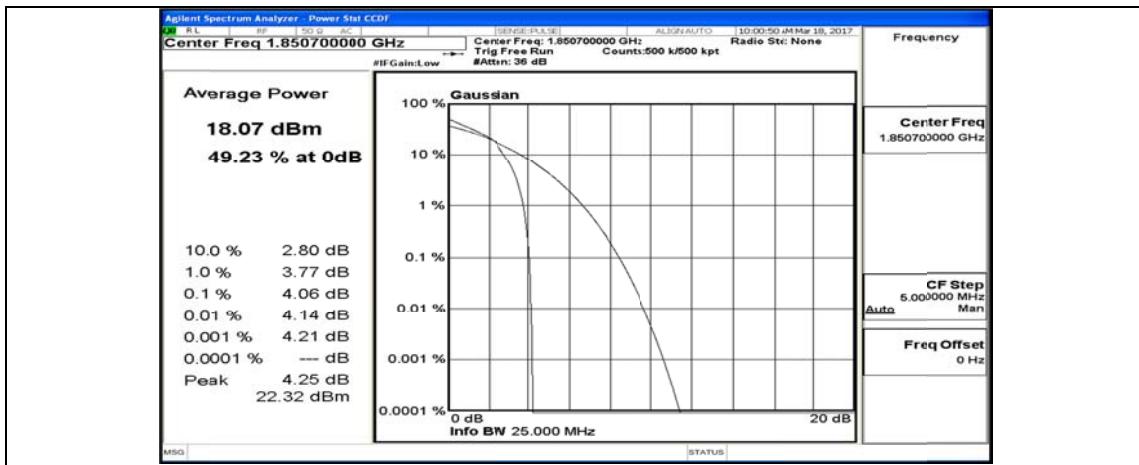
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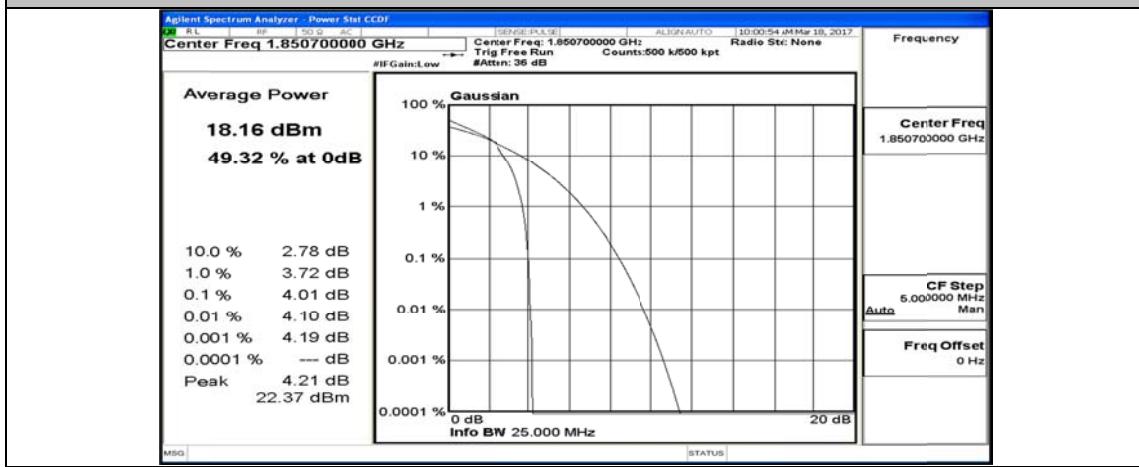
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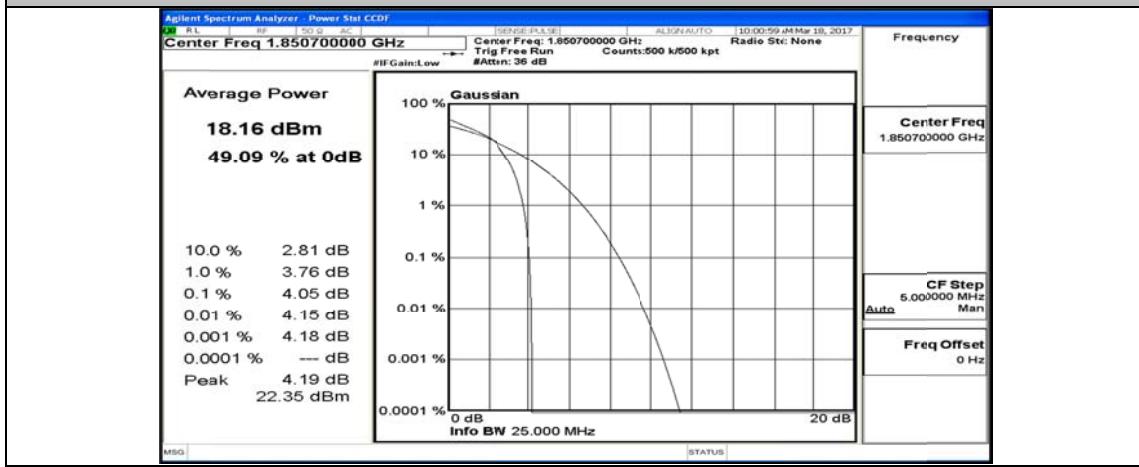
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_3RB#0



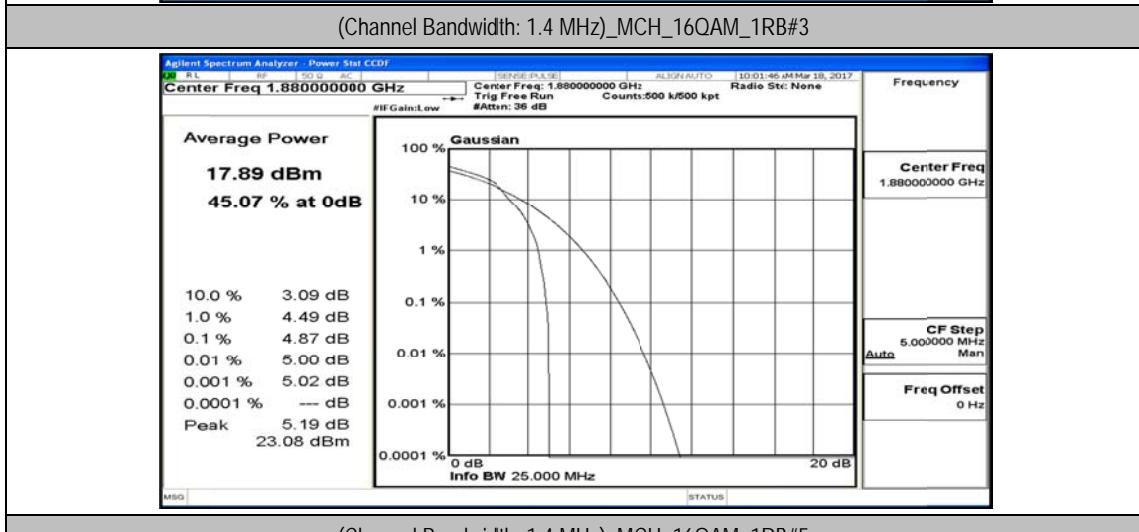
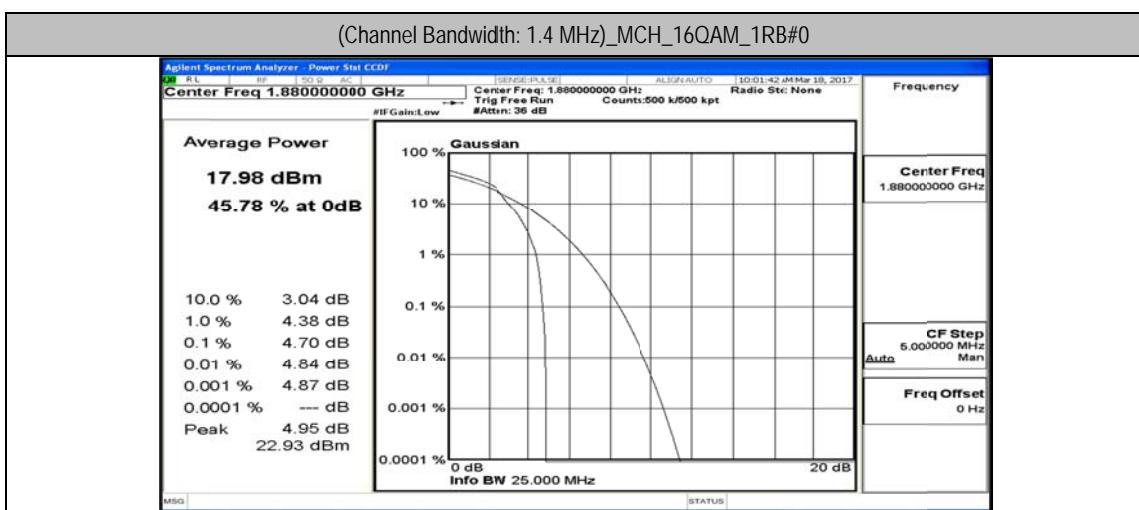
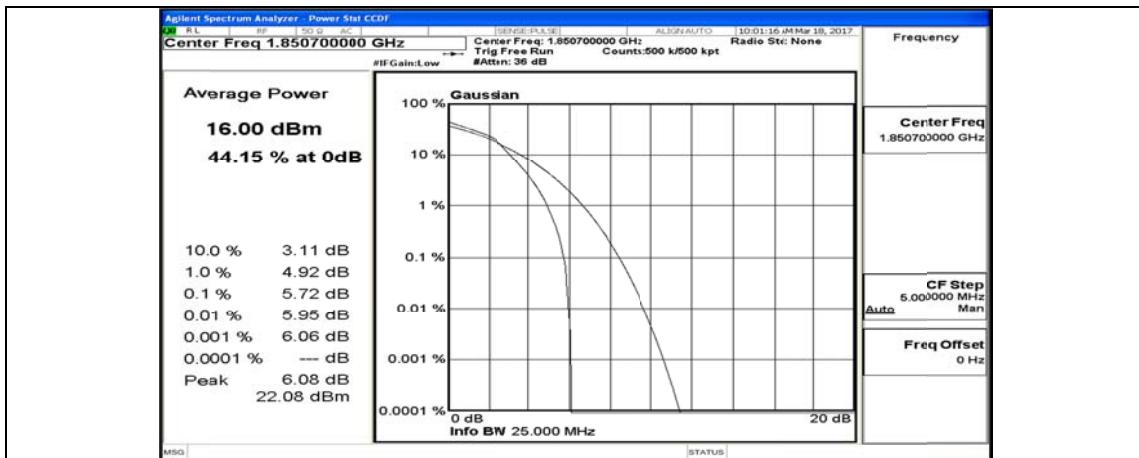
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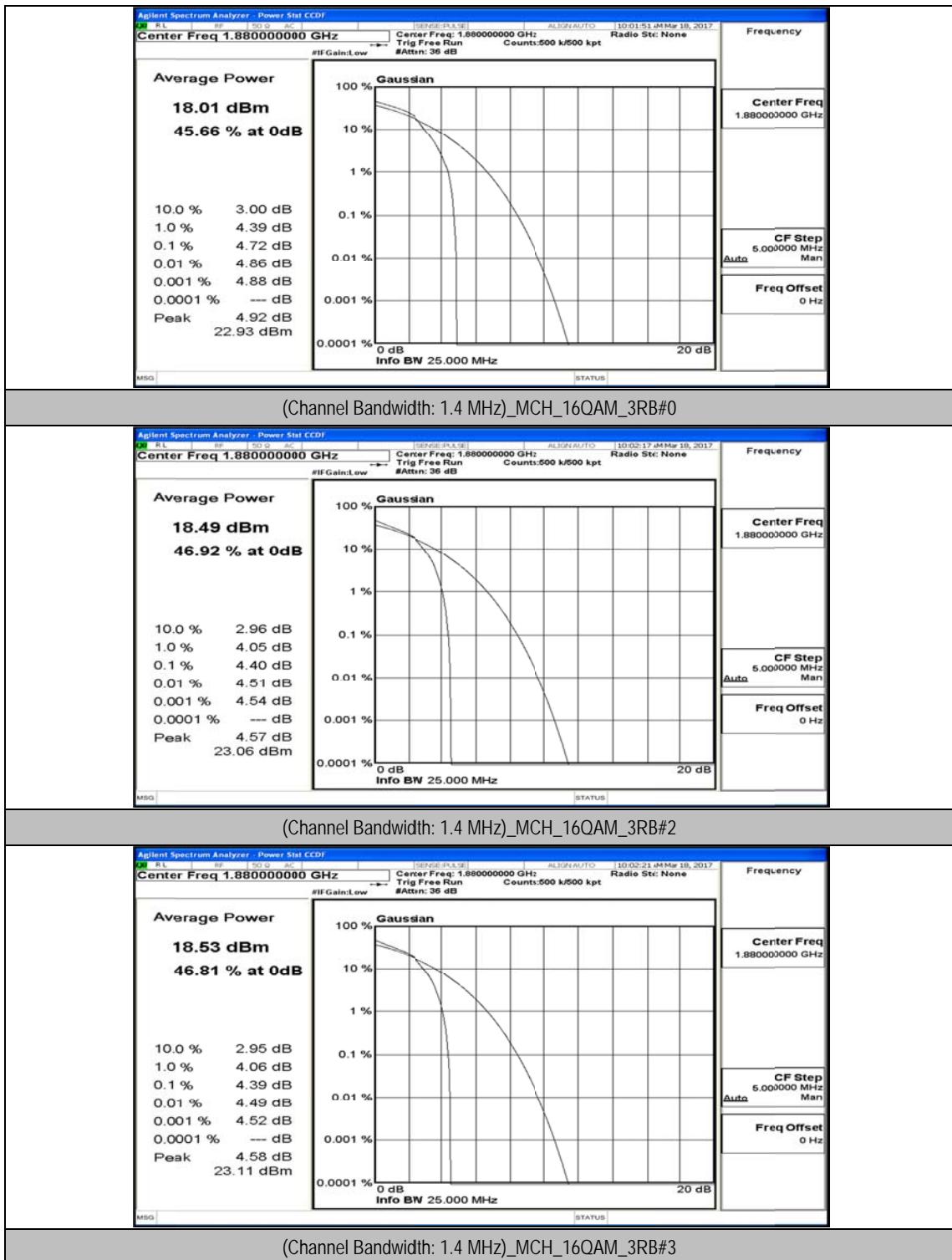
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_3RB#3

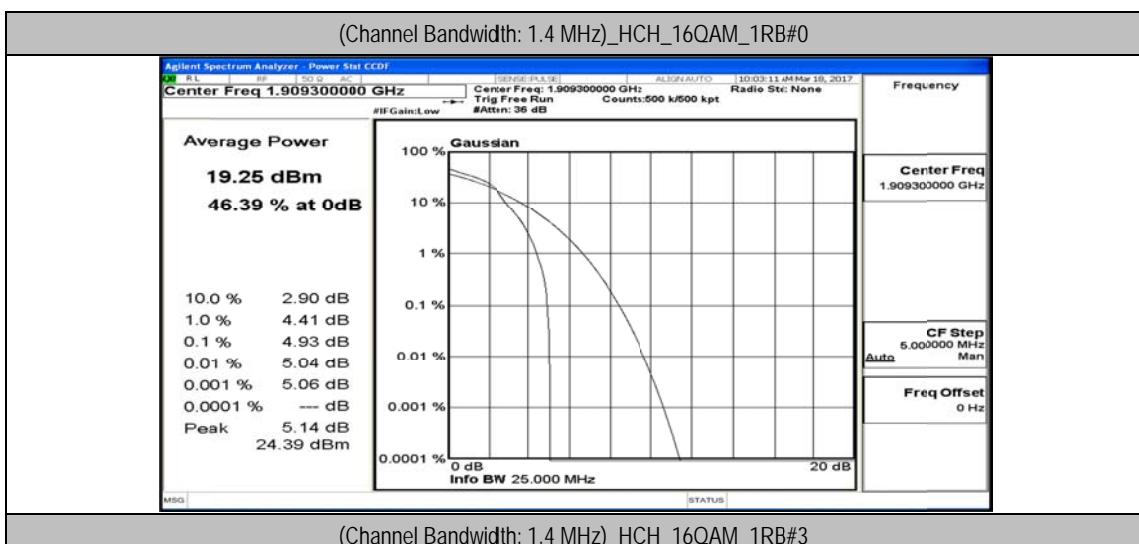
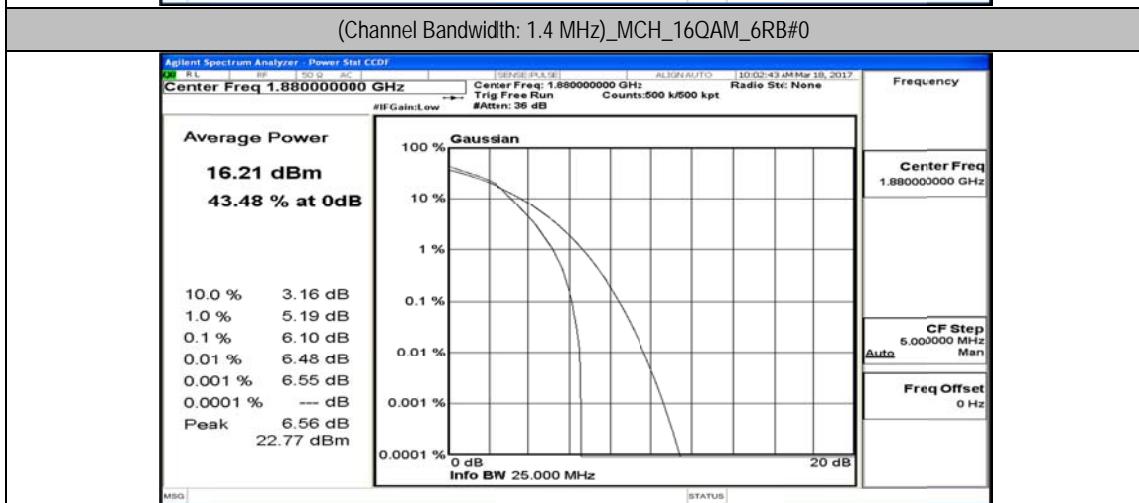
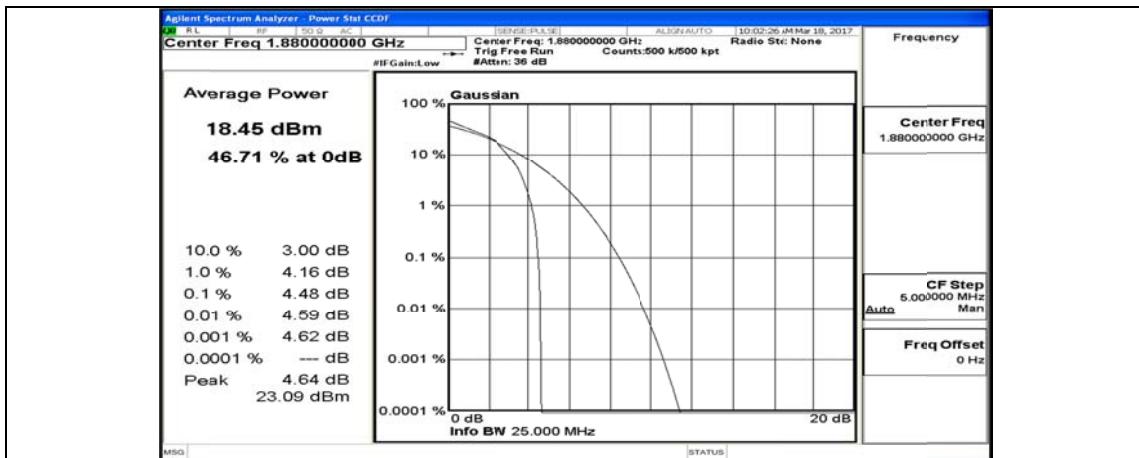


(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_6RB#0

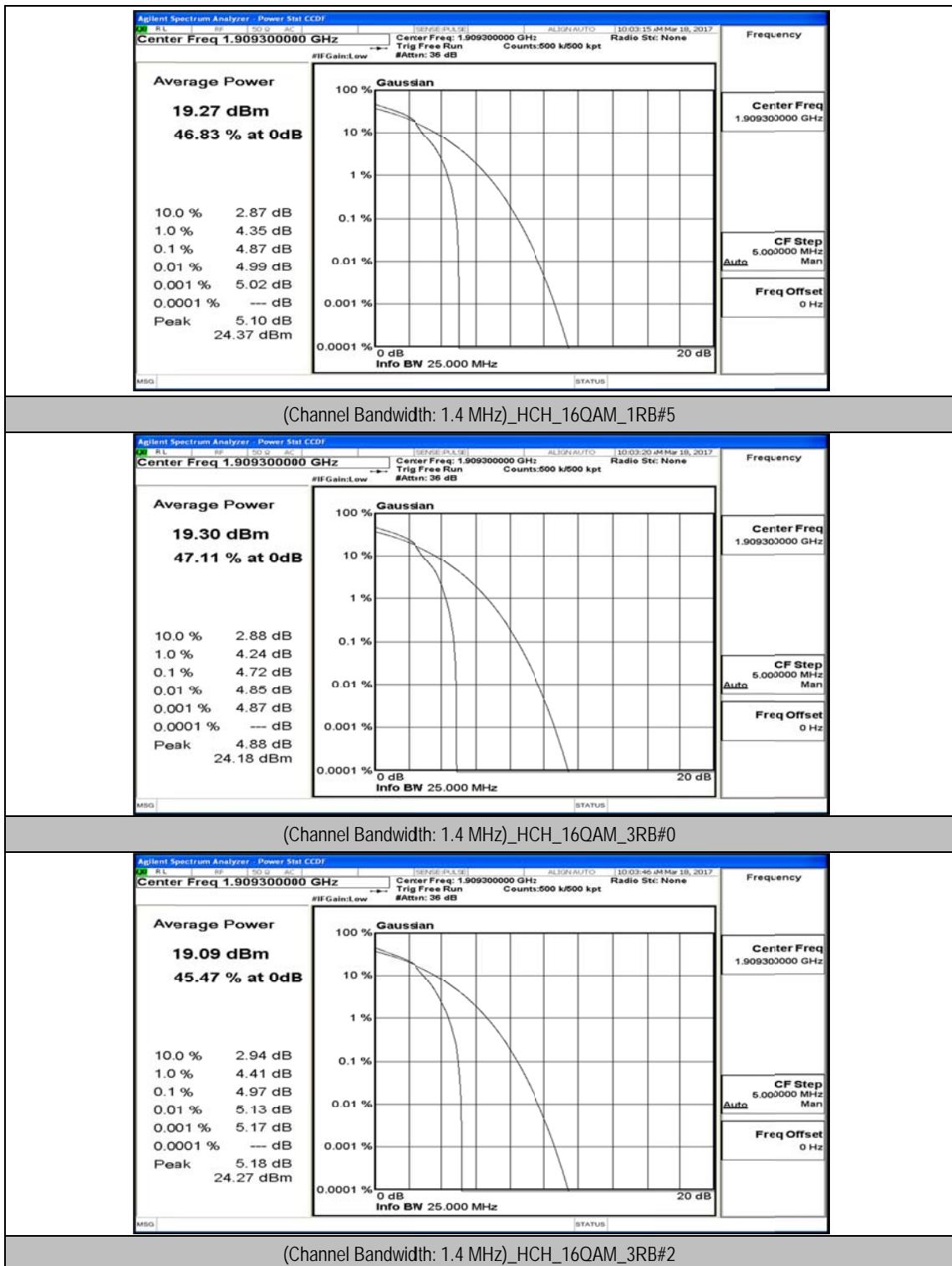


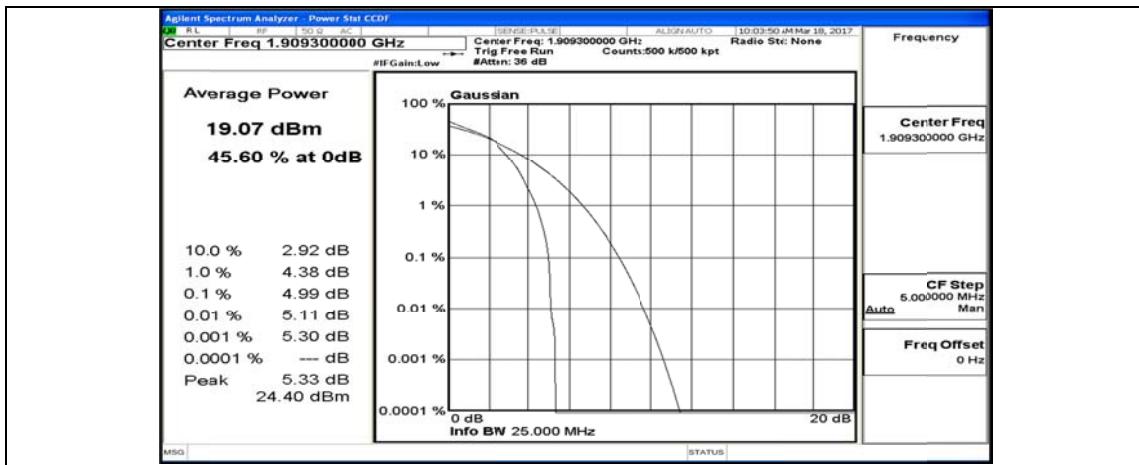
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#5



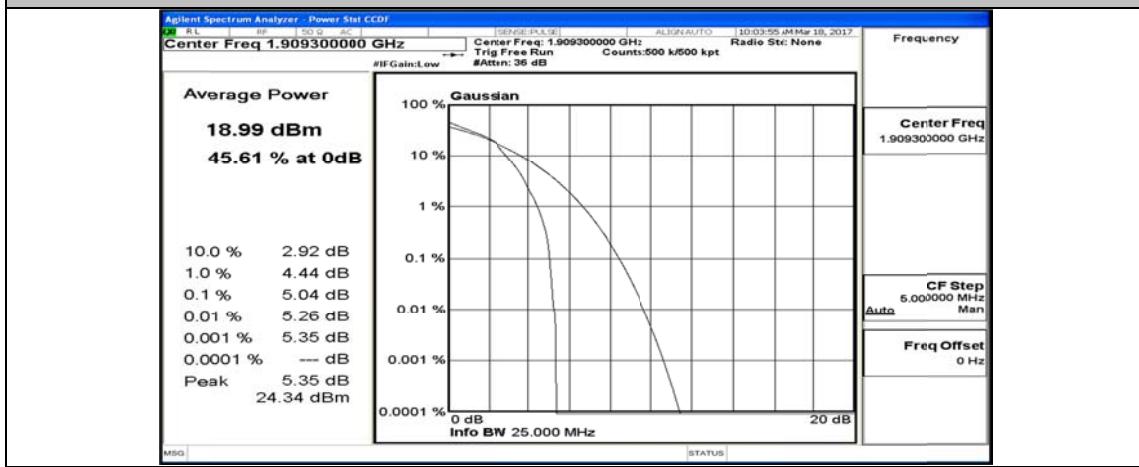


(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#3

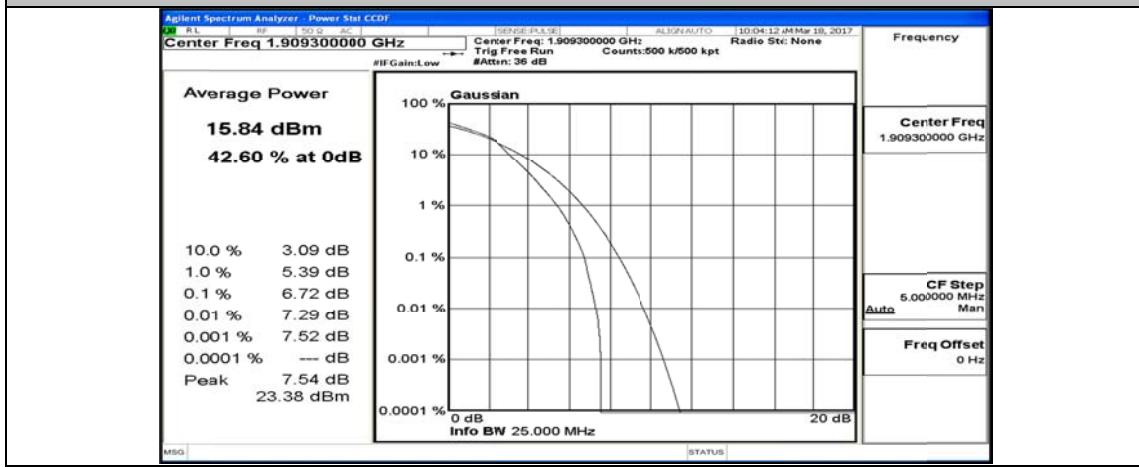




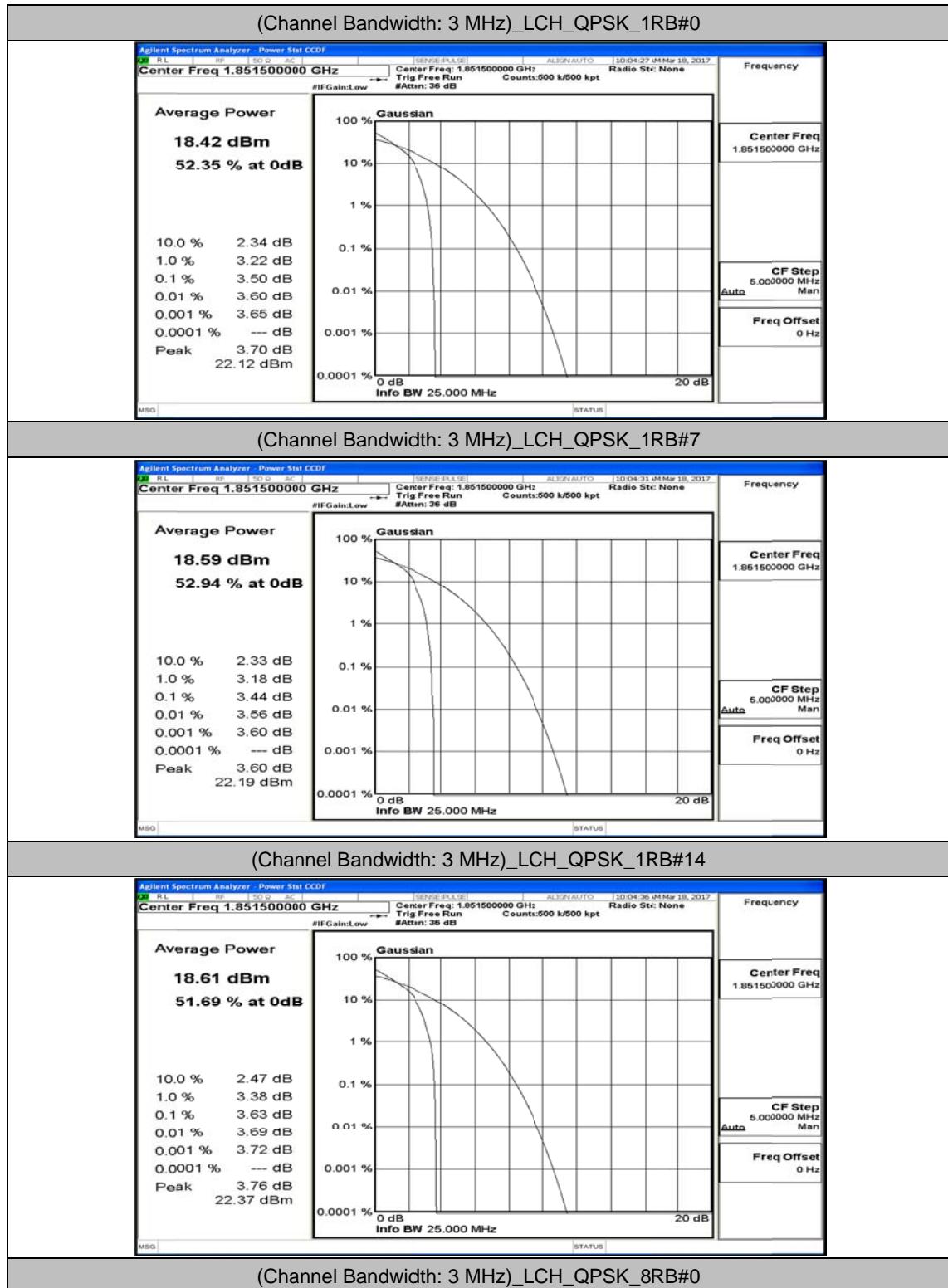
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_3RB#3

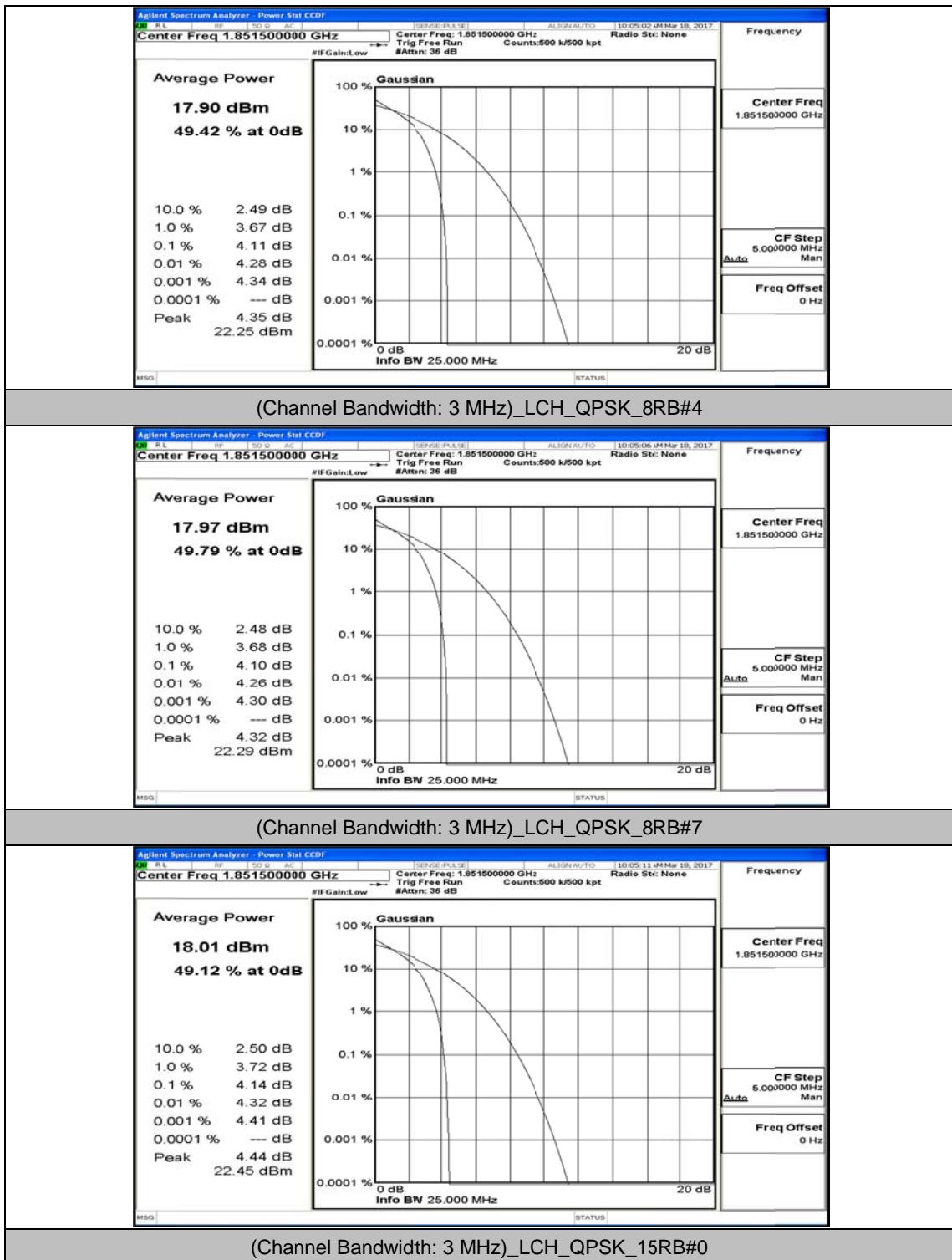


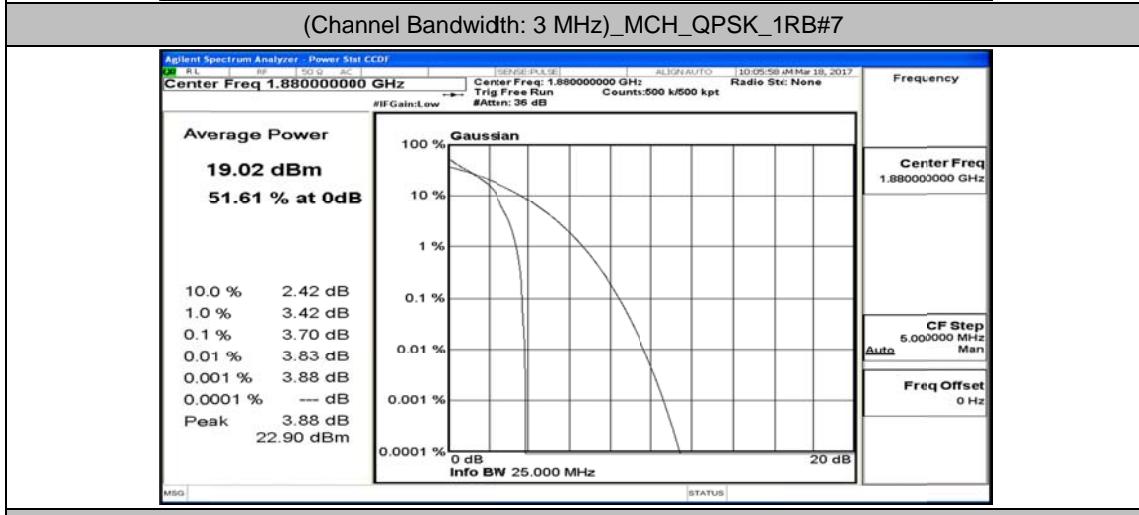
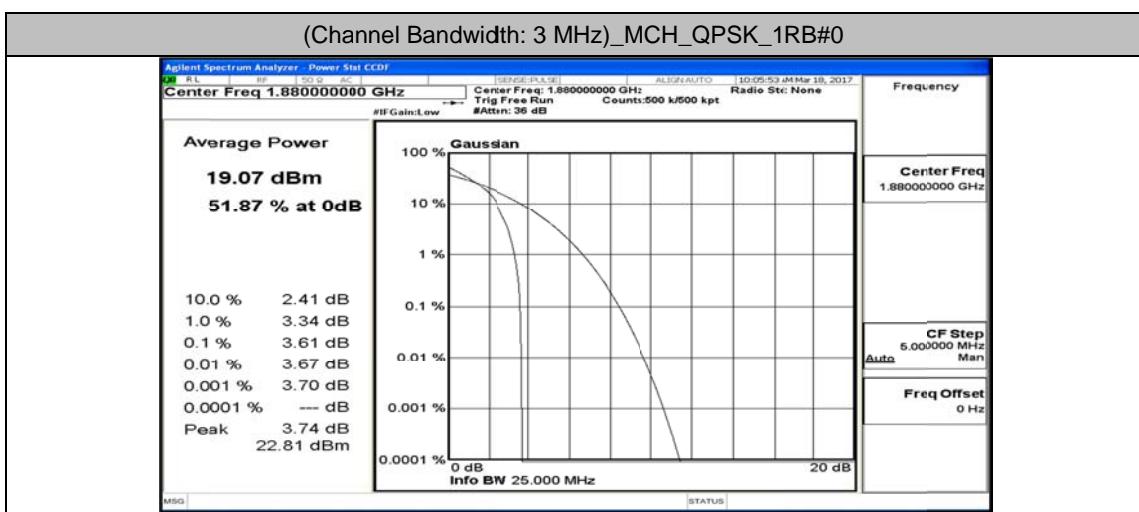
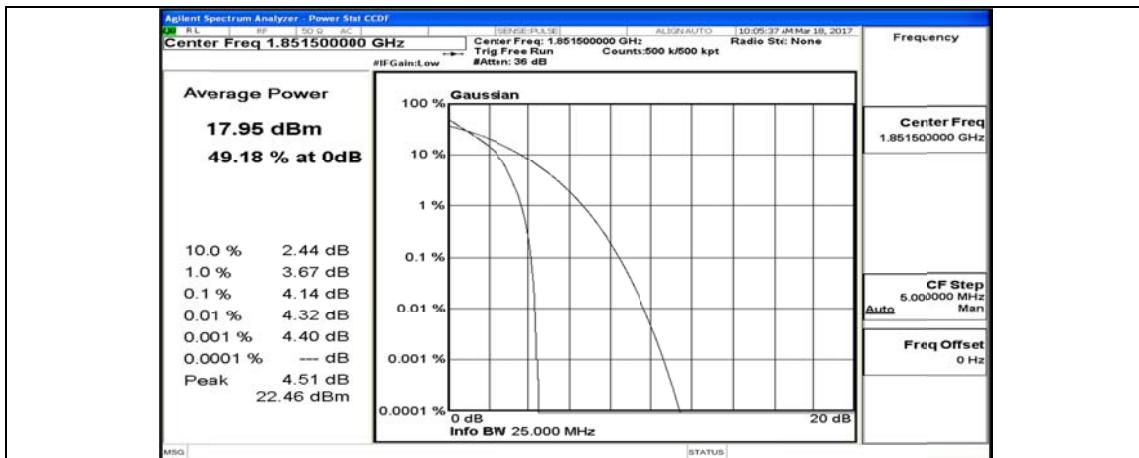
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_6RB#0



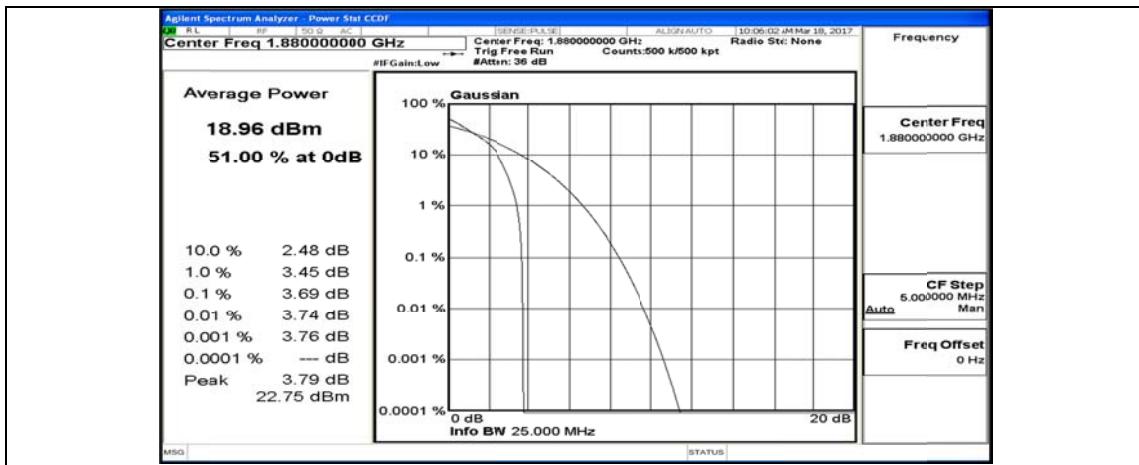
Channel Bandwidth: 3 MHz



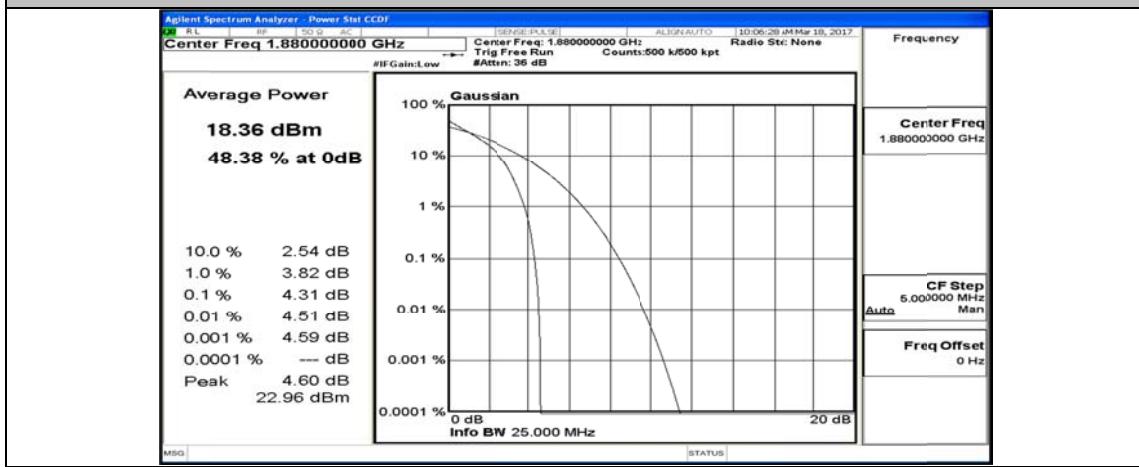




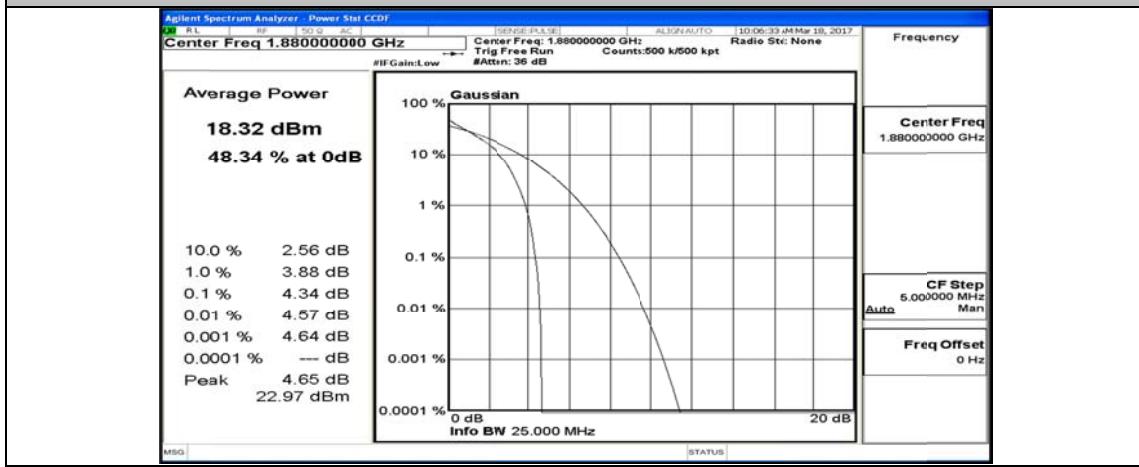
(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#14



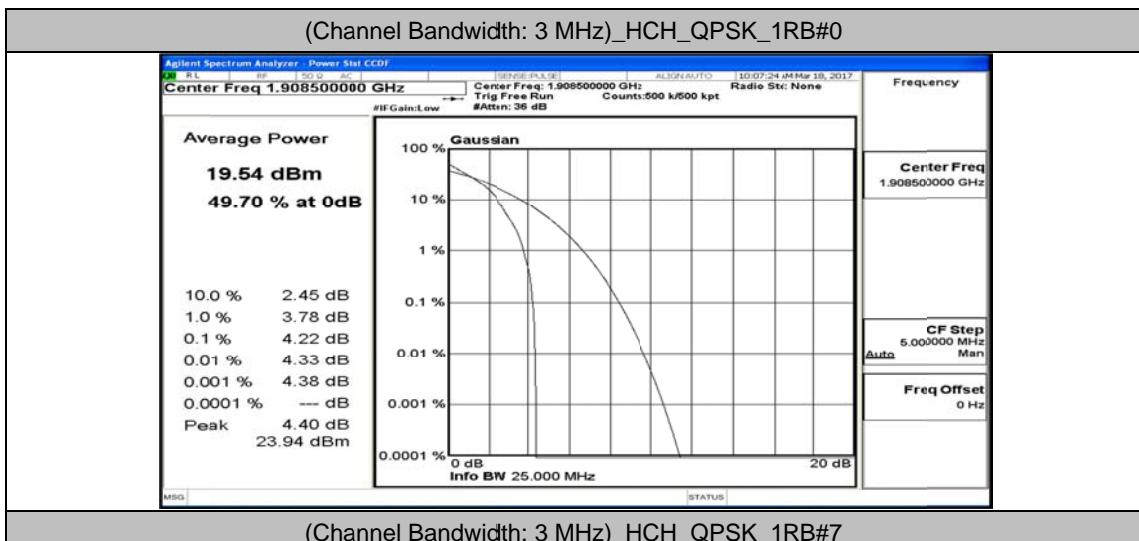
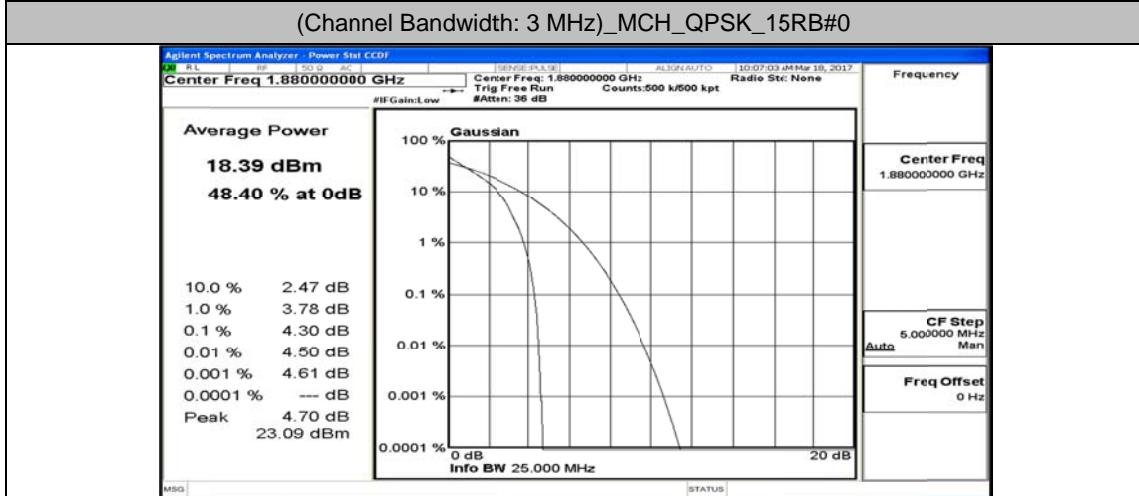
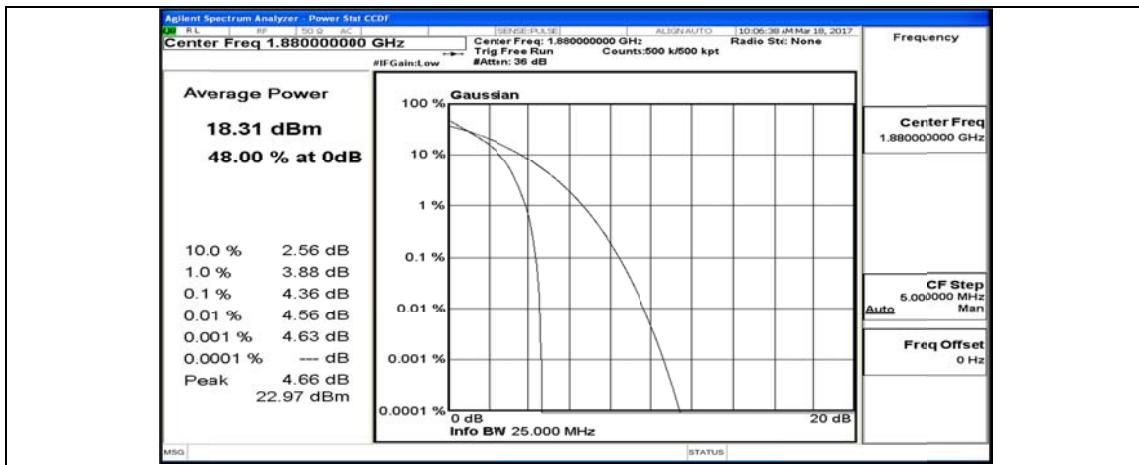
(Channel Bandwidth: 3 MHz)_MCH_QPSK_8RB#0



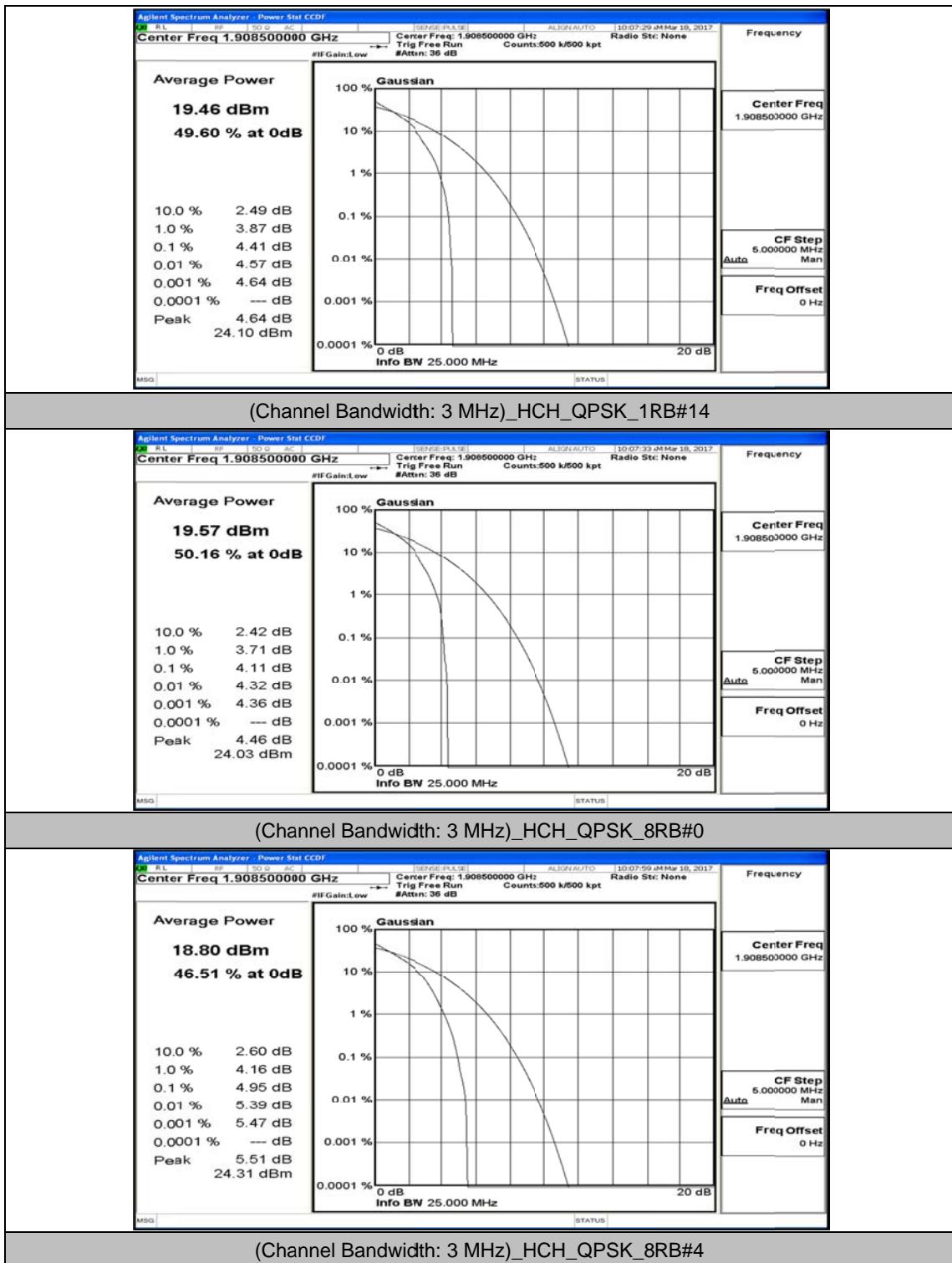
(Channel Bandwidth: 3 MHz)_MCH_QPSK_8RB#4

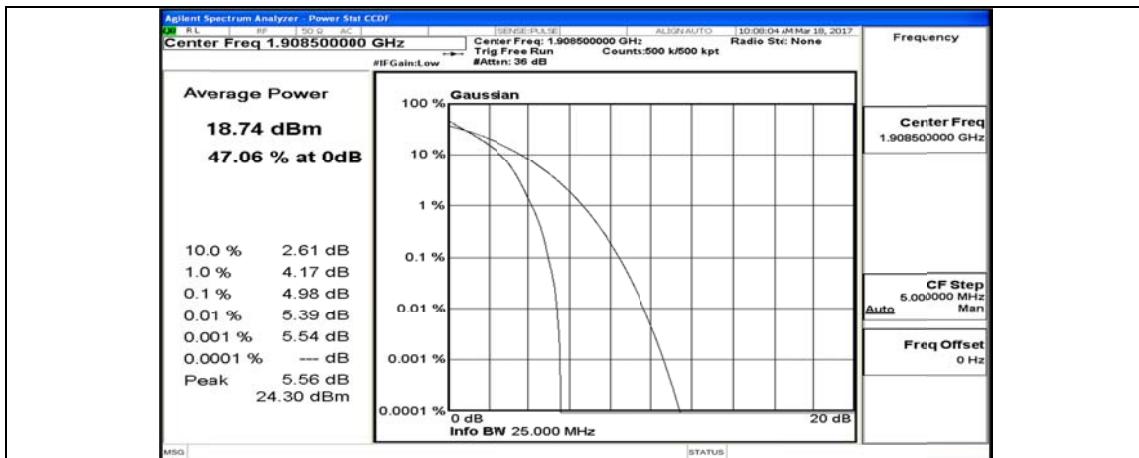


(Channel Bandwidth: 3 MHz)_MCH_QPSK_8RB#7

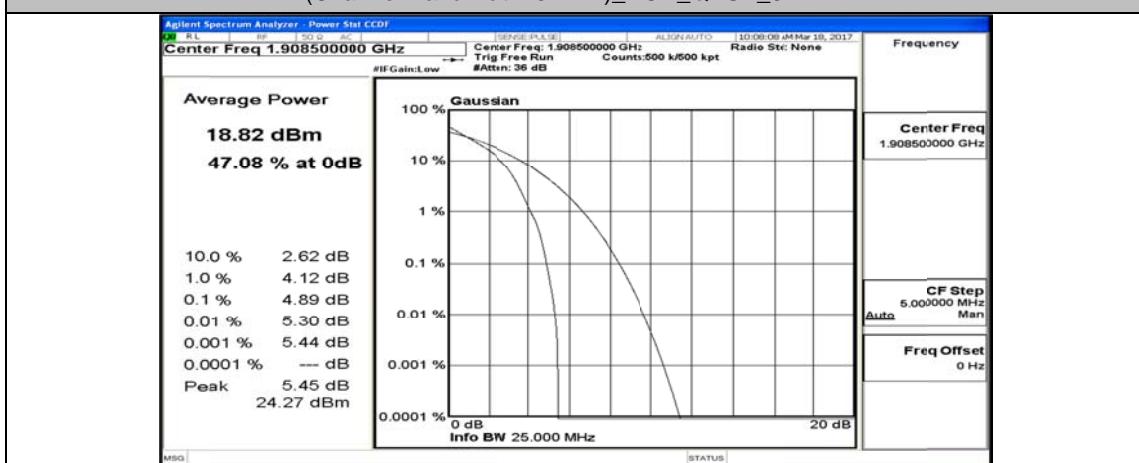


(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#7

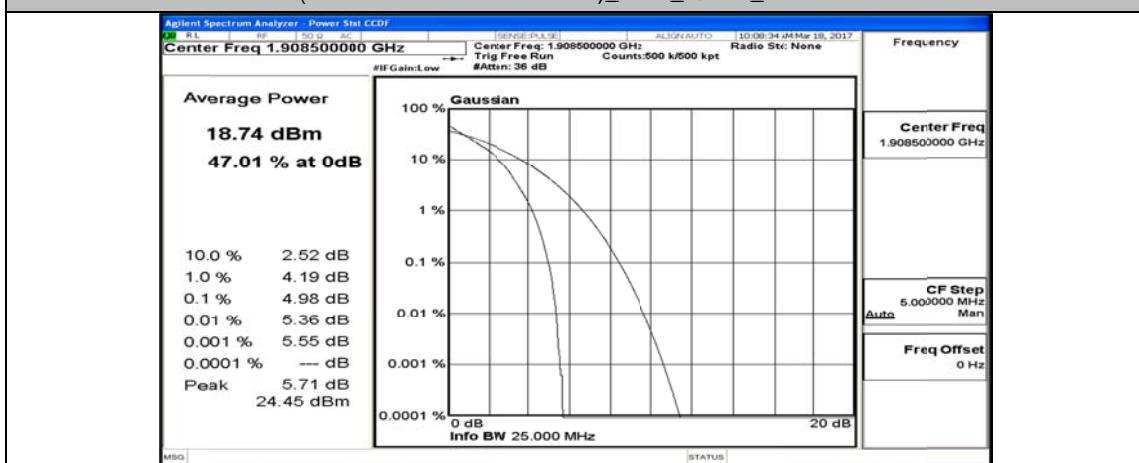




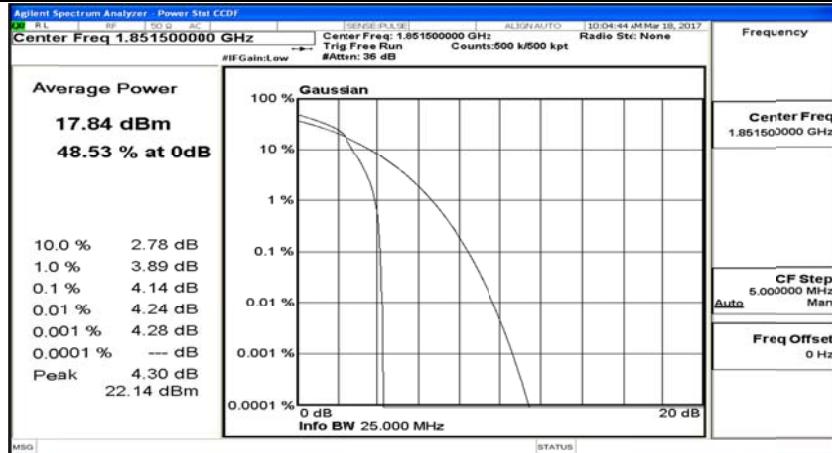
(Channel Bandwidth: 3 MHz)_HCH_QPSK_8RB#7



(Channel Bandwidth: 3 MHz)_HCH_QPSK_15RB#0



(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#0

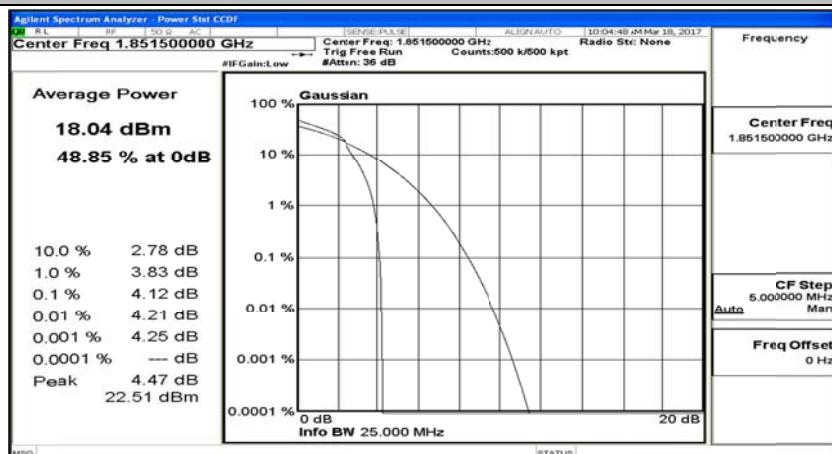


Frequency
Center Freq
1.851500000 GHz

CF Step
5.000000 MHz
Auto

Freq Offset
0 Hz

(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#7

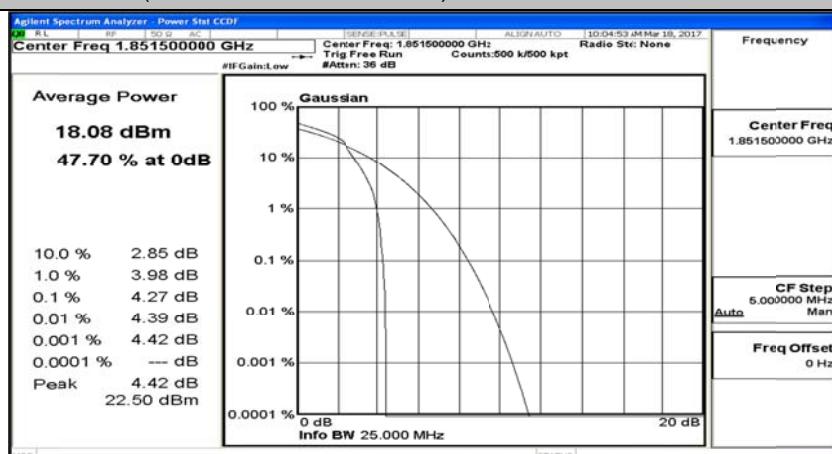


Frequency
Center Freq
1.851500000 GHz

CF Step
5.000000 MHz
Auto

Freq Offset
0 Hz

(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#14

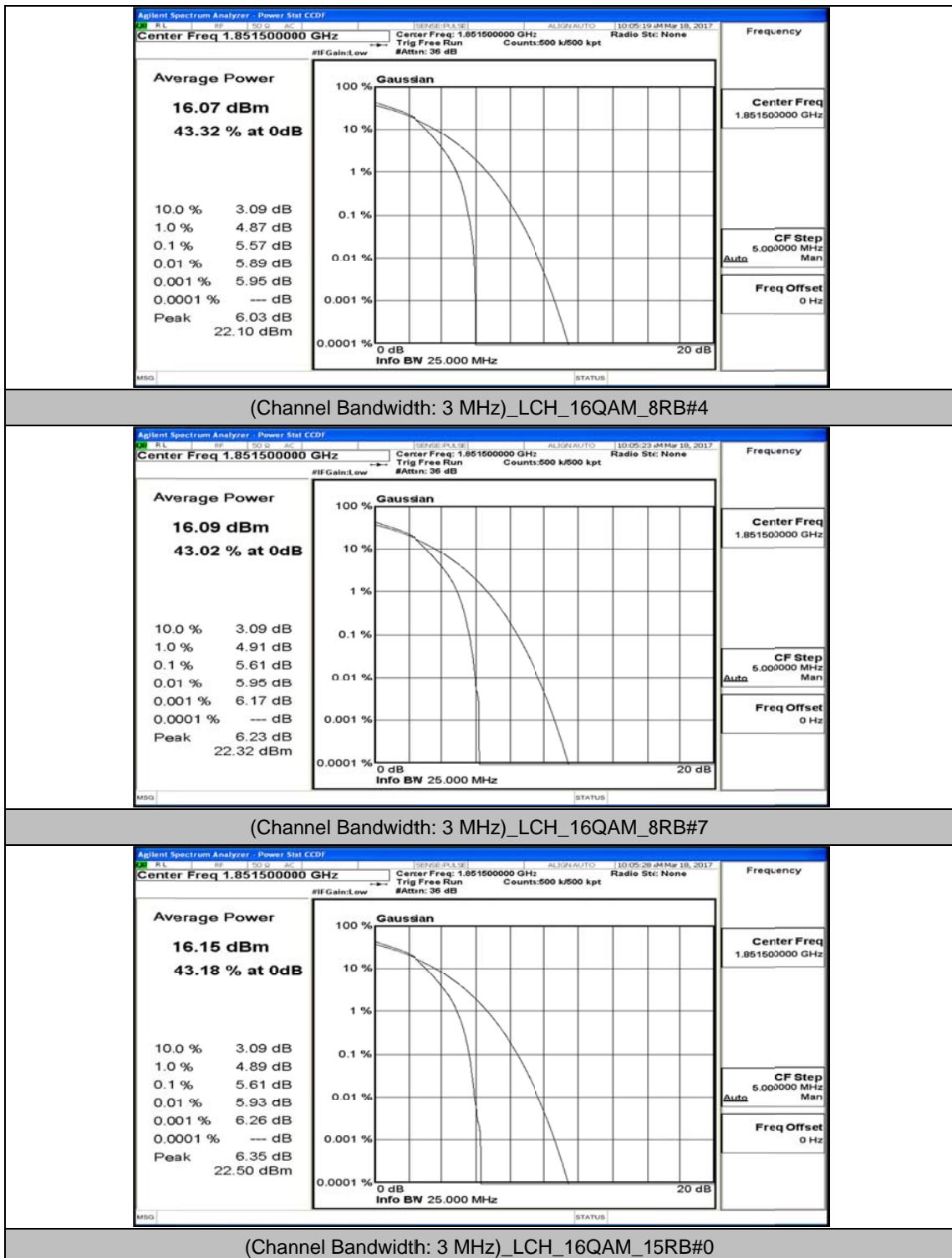


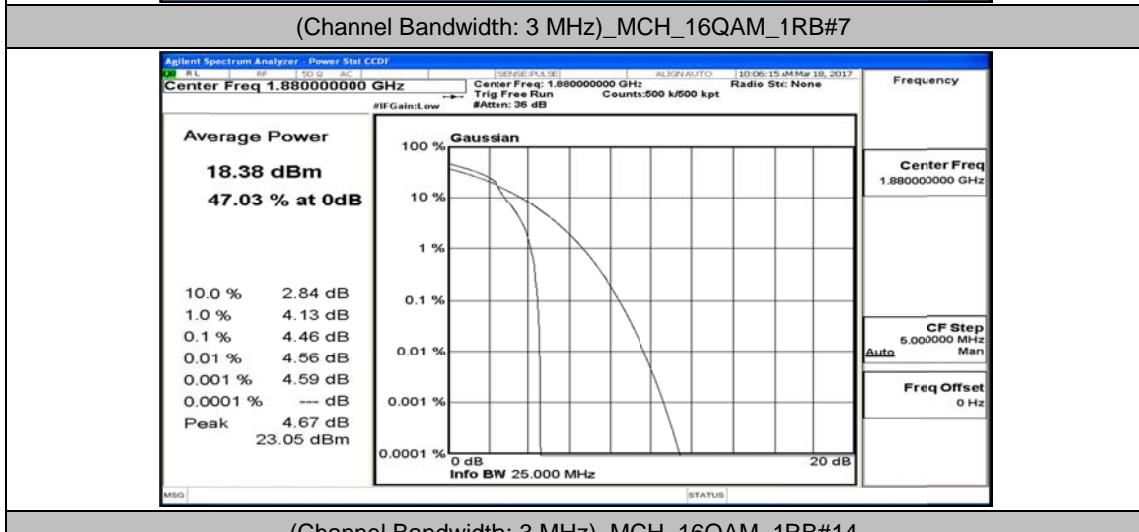
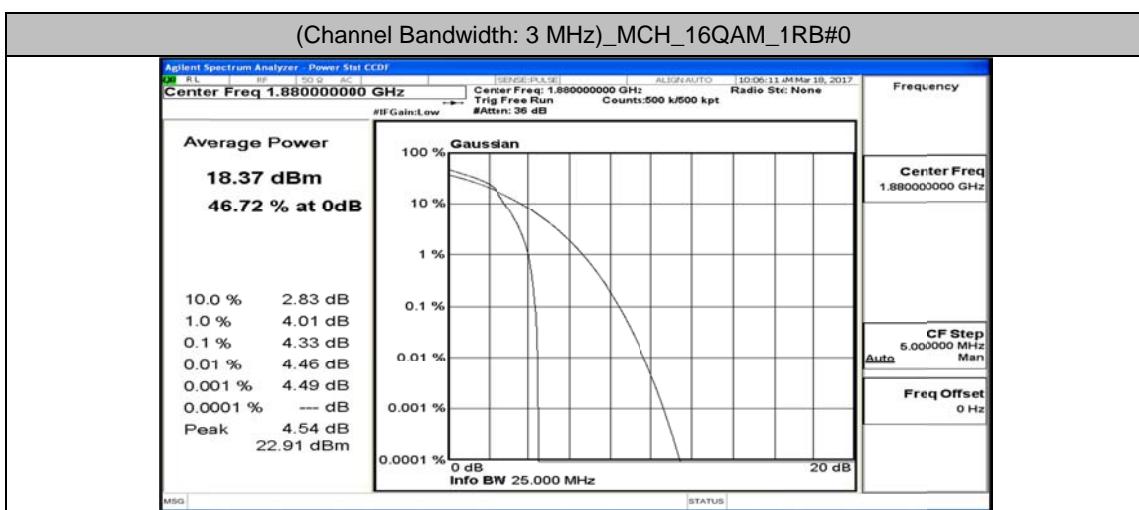
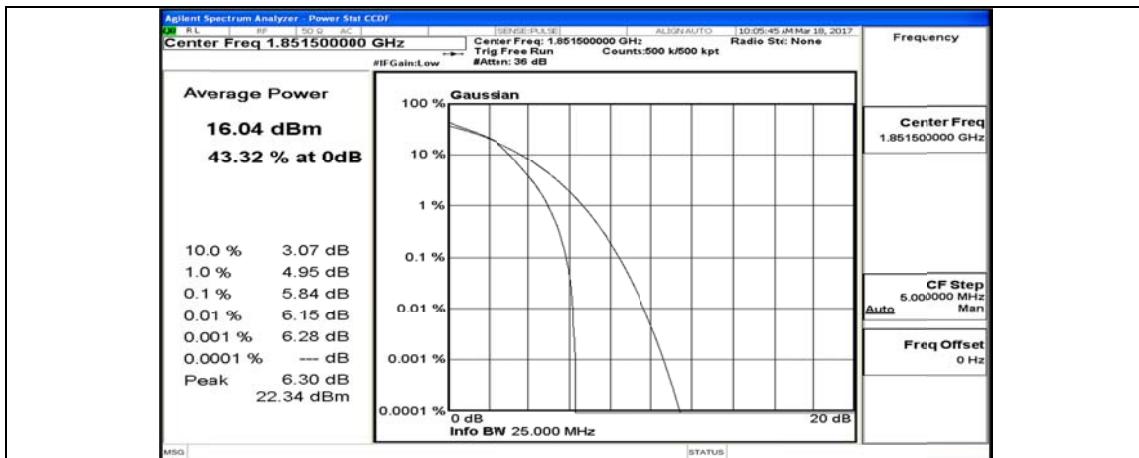
Frequency
Center Freq
1.851500000 GHz

CF Step
5.000000 MHz
Auto

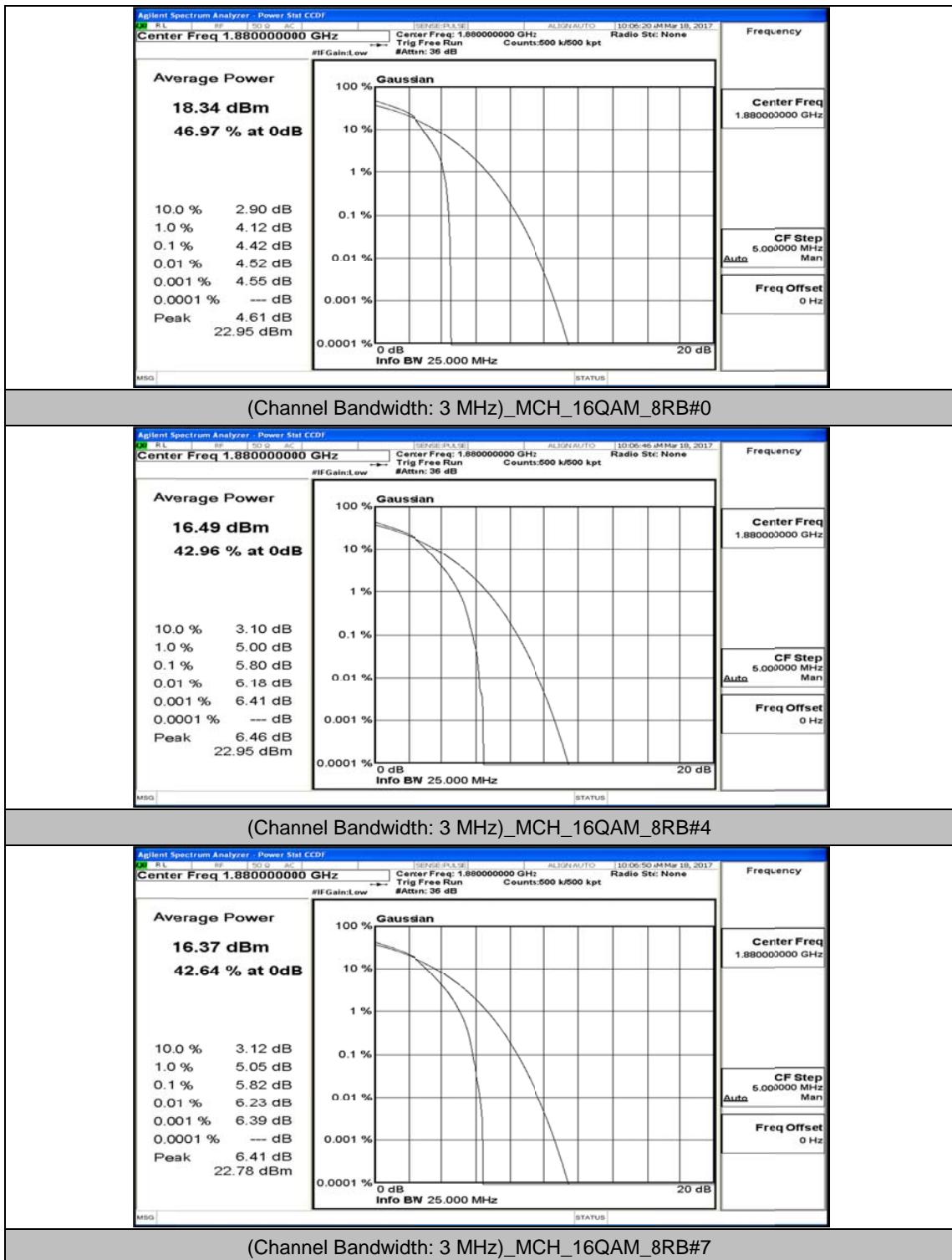
Freq Offset
0 Hz

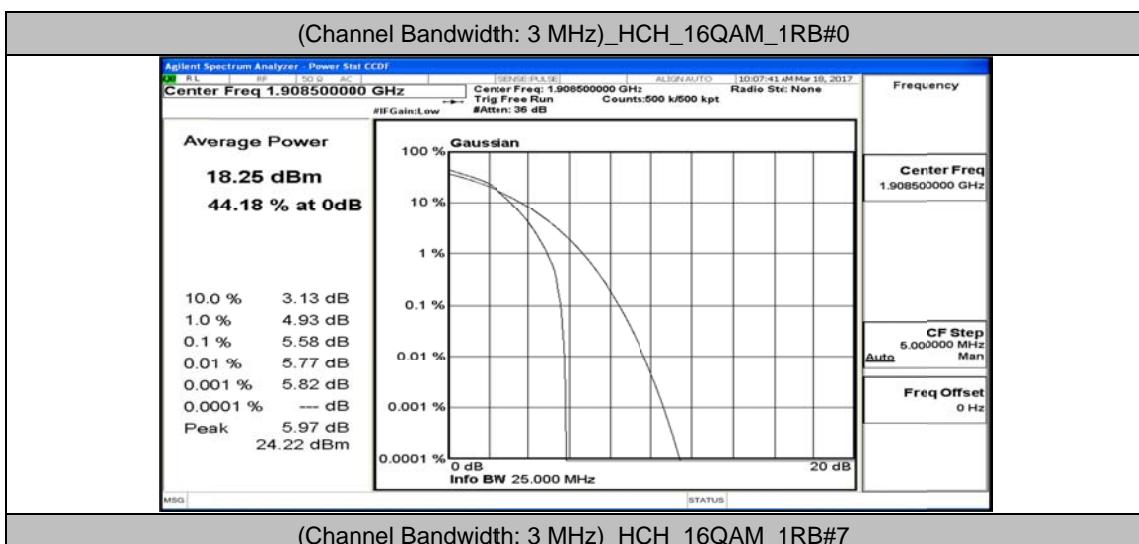
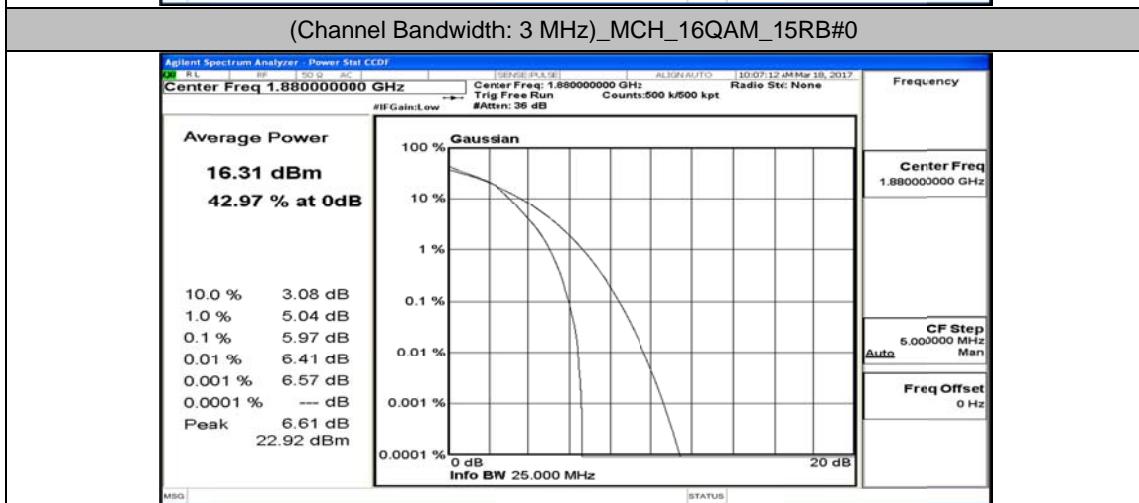
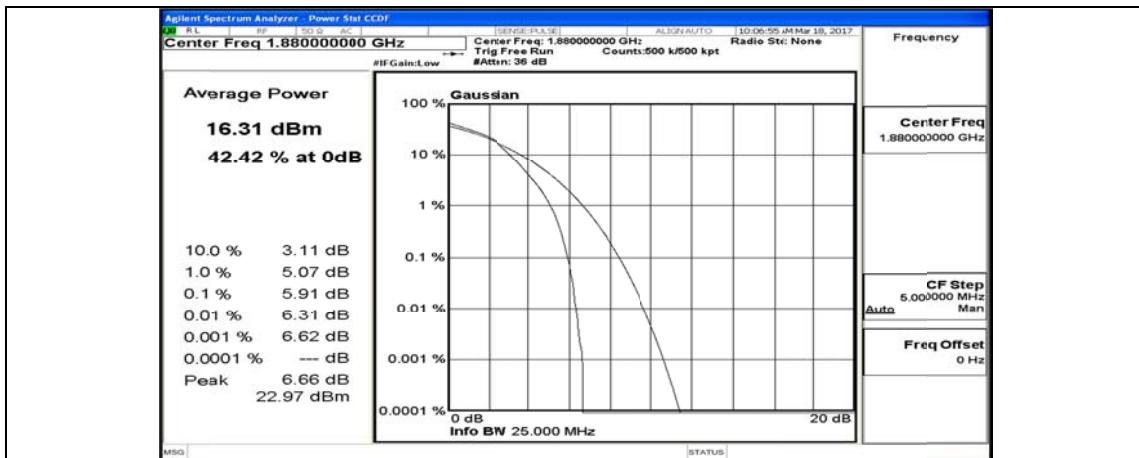
(Channel Bandwidth: 3 MHz)_LCH_16QAM_8RB#0



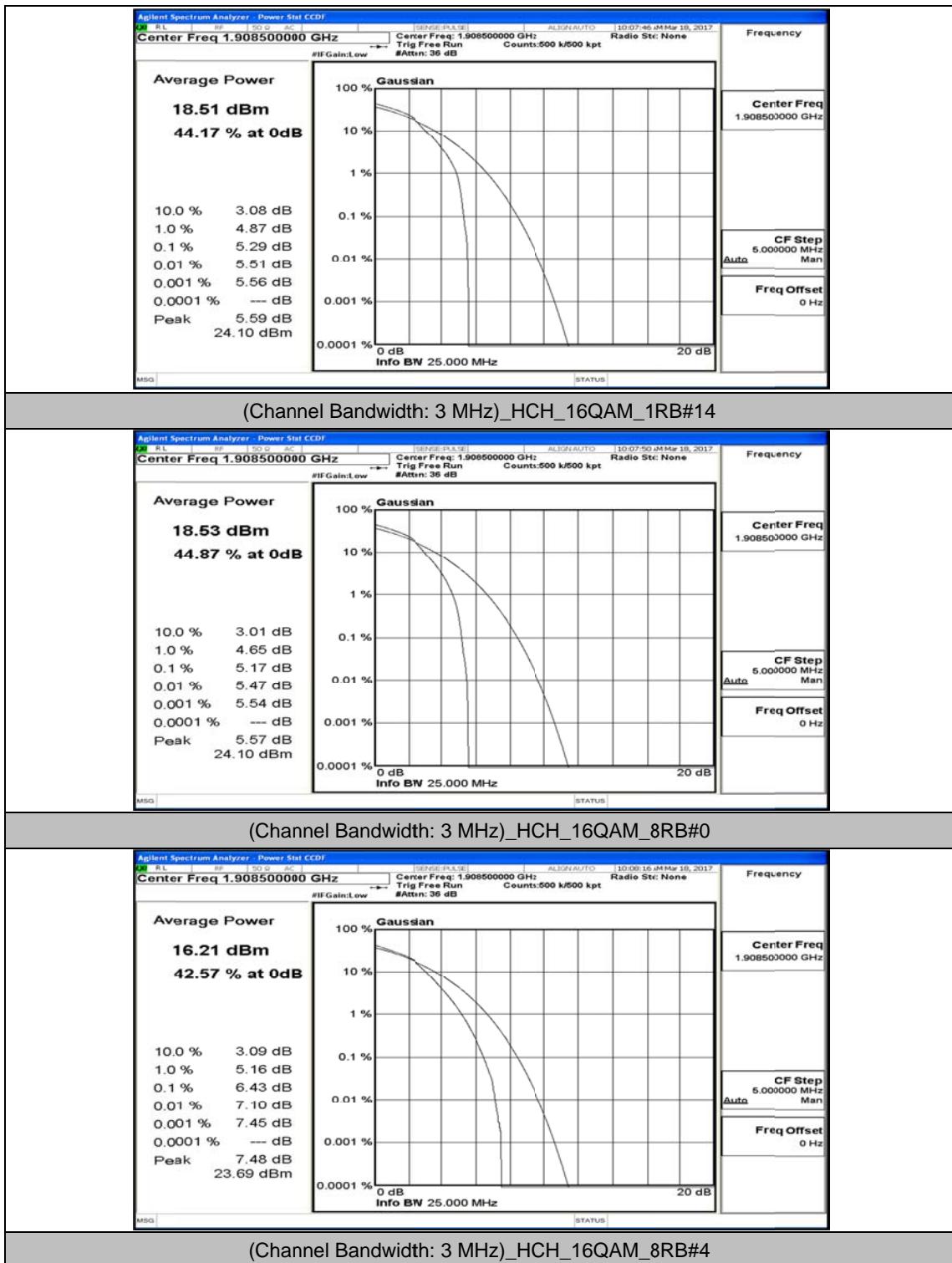


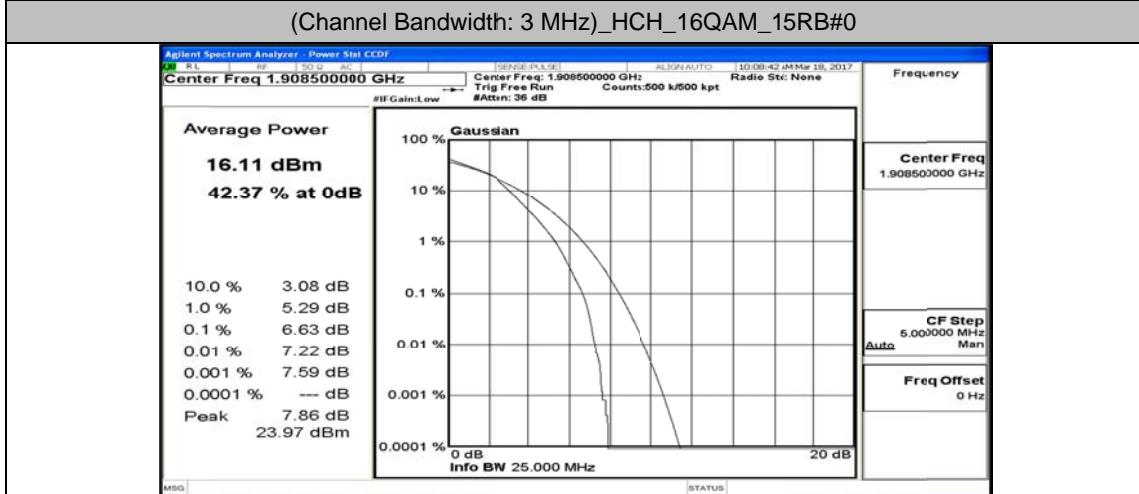
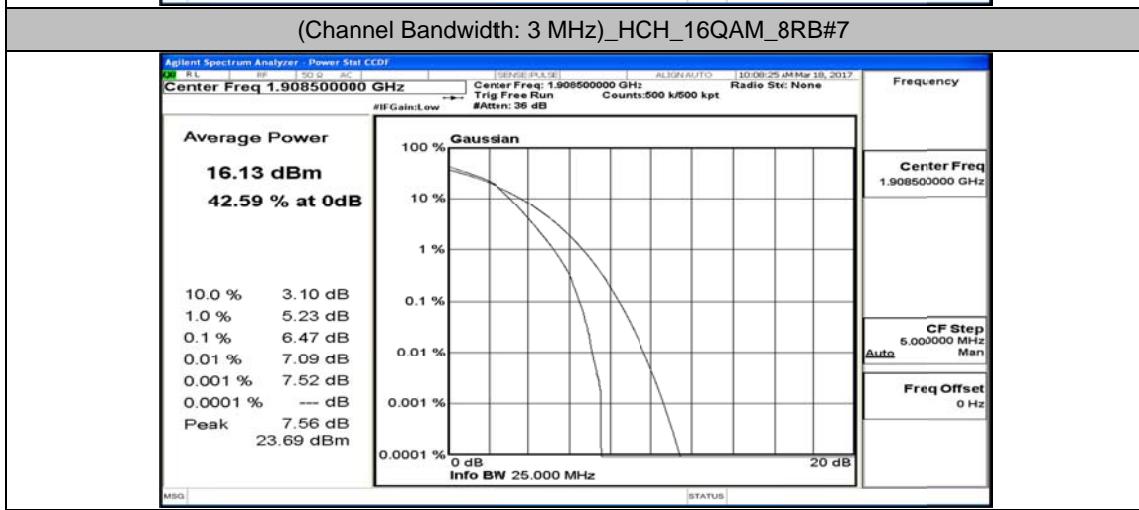
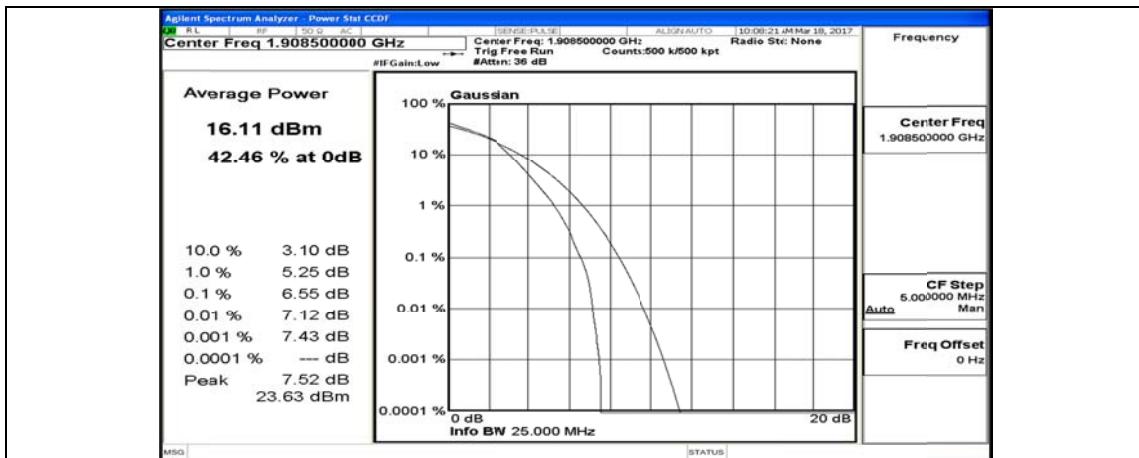
(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#14



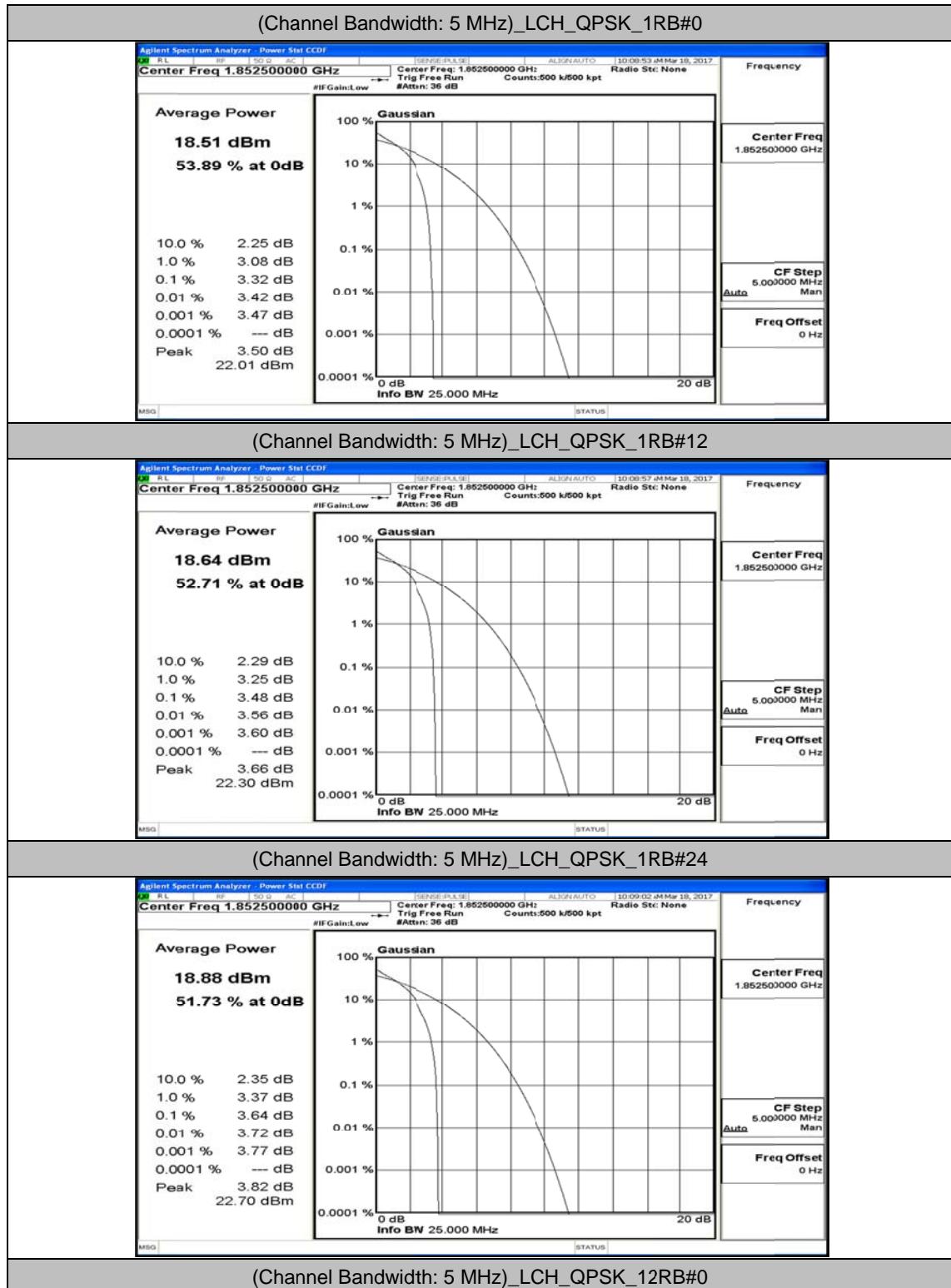


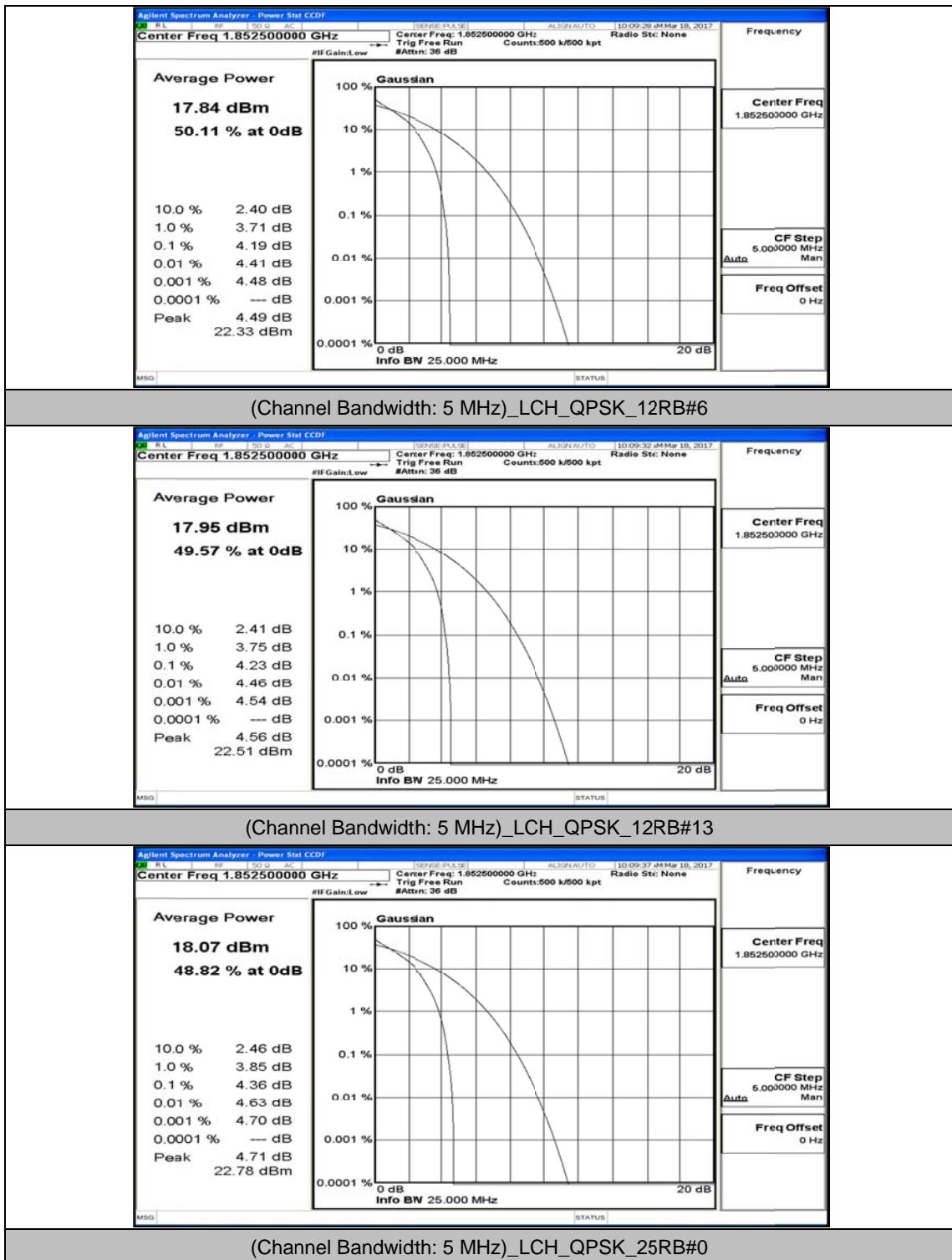
(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#7

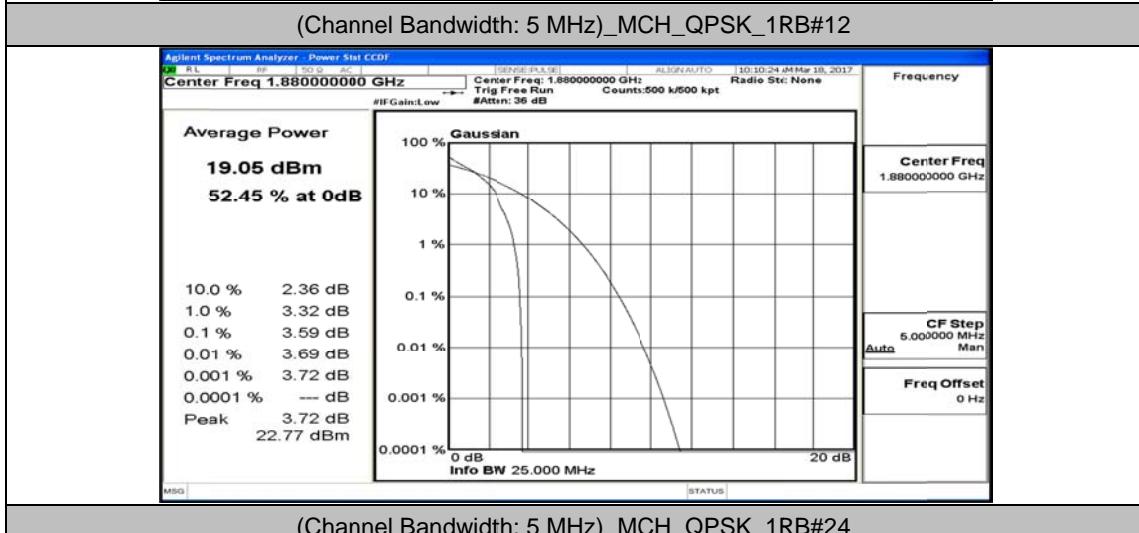
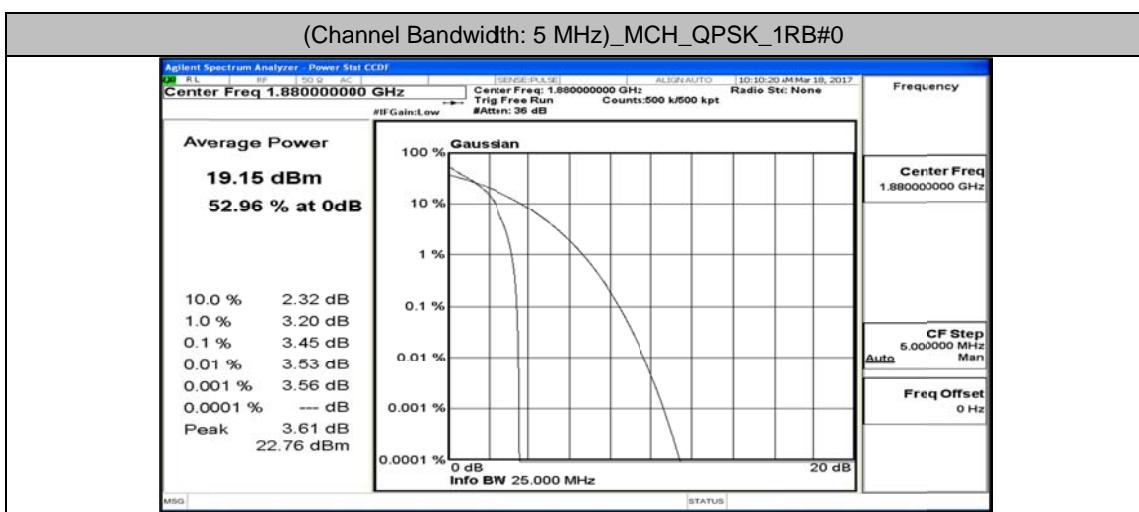
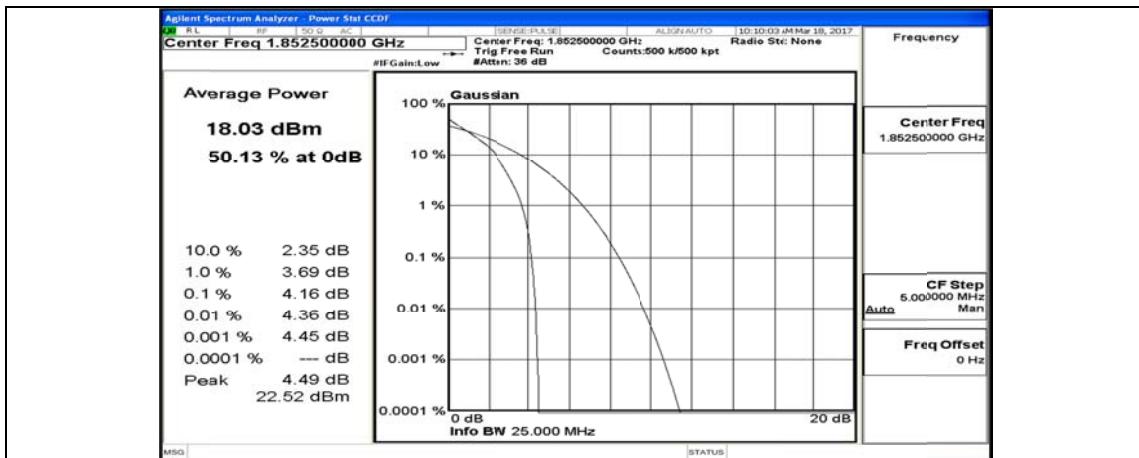




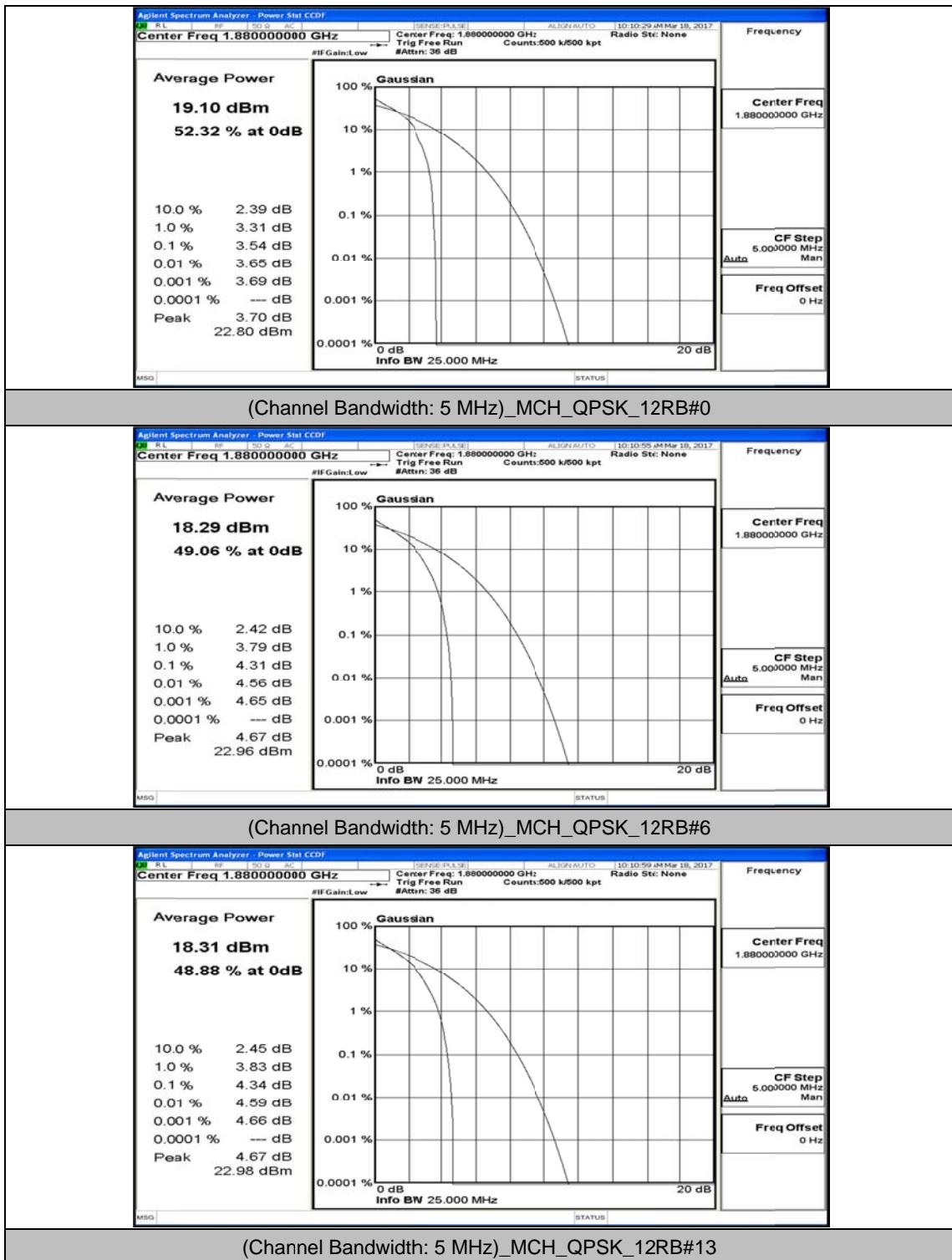
Channel Bandwidth: 5 MHz

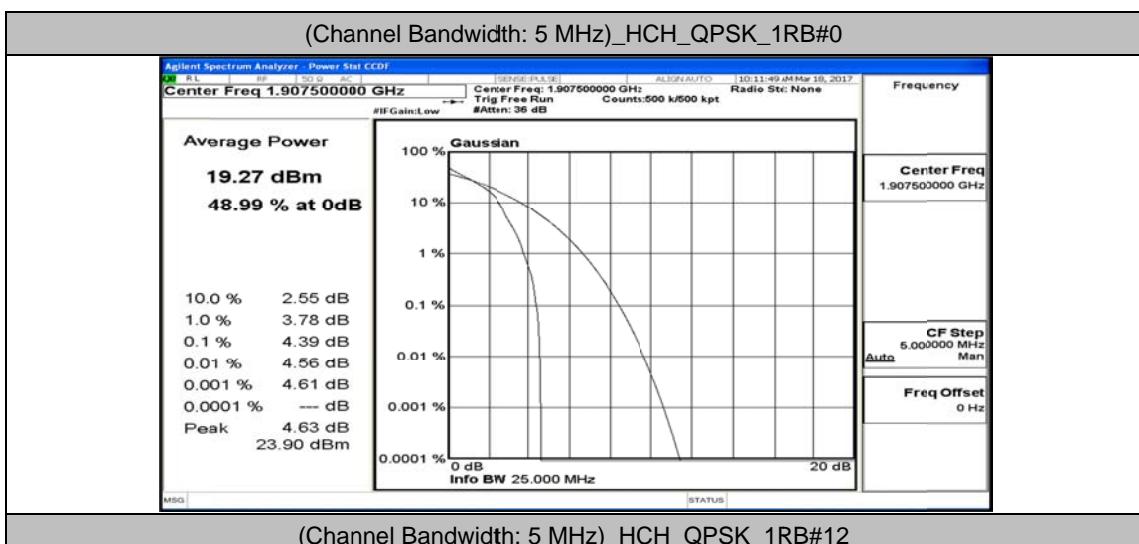
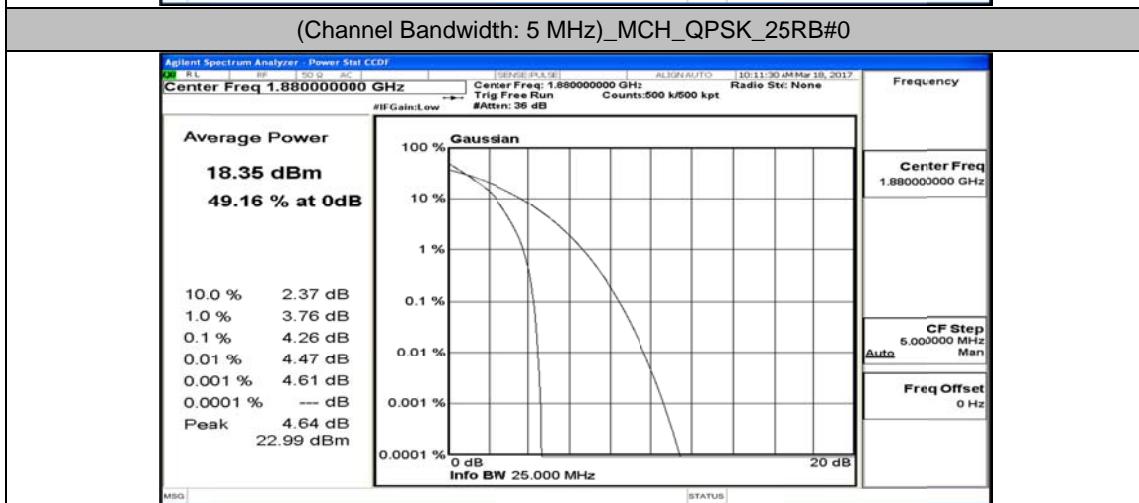
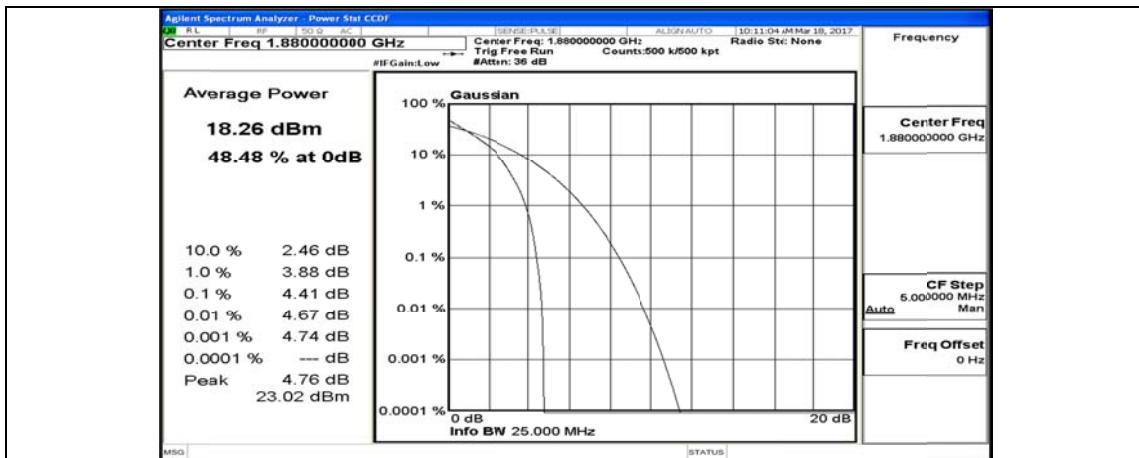




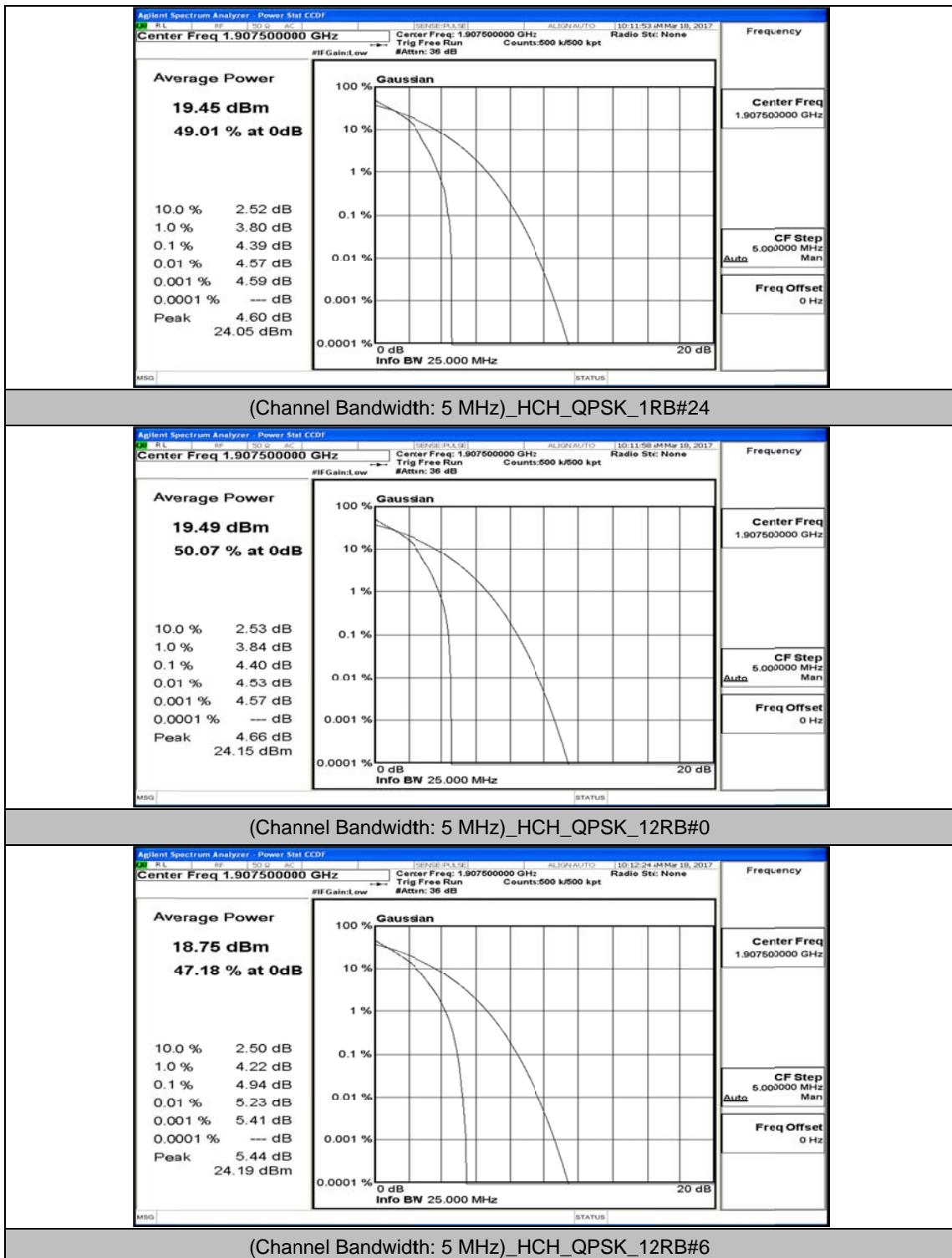


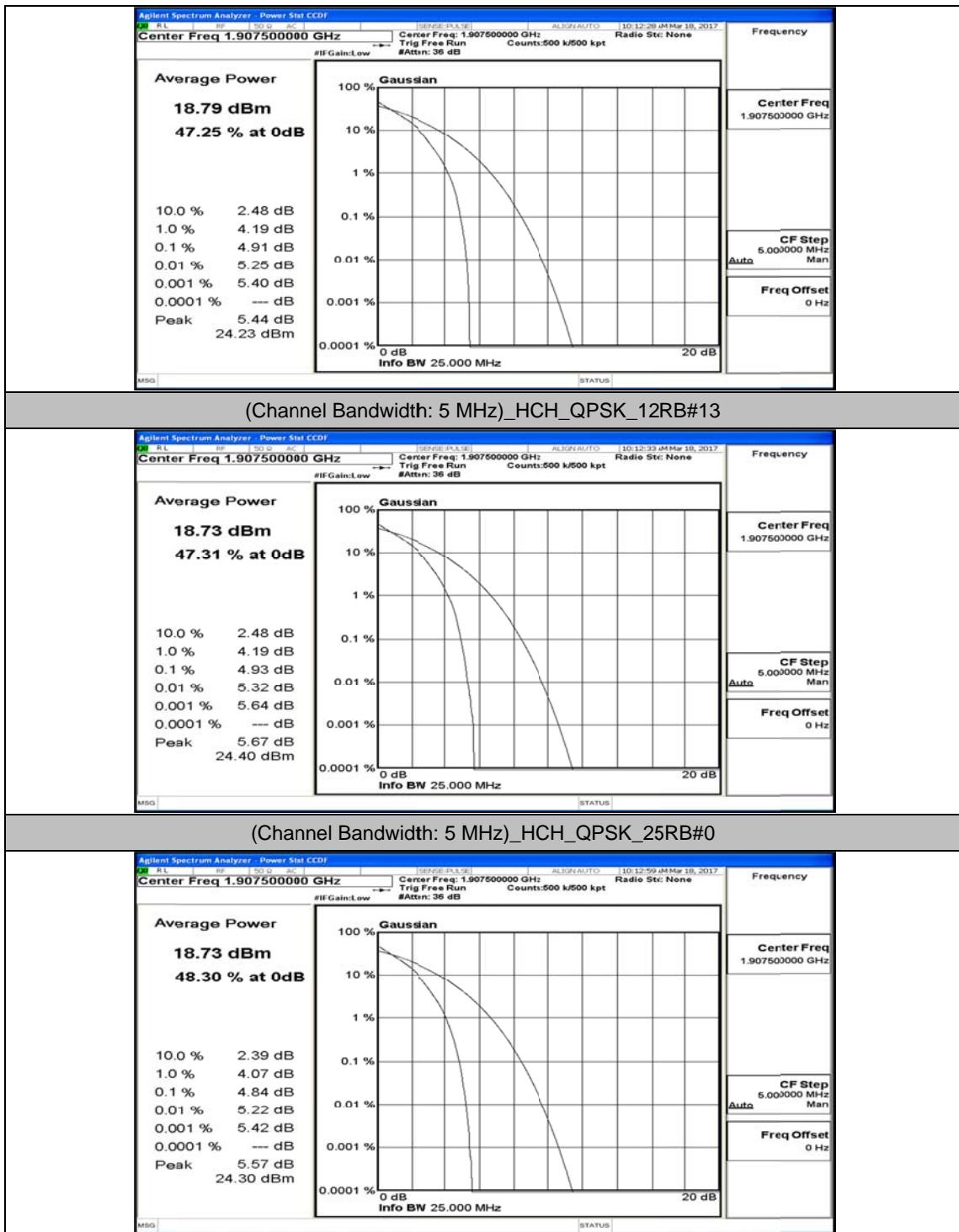
(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#24



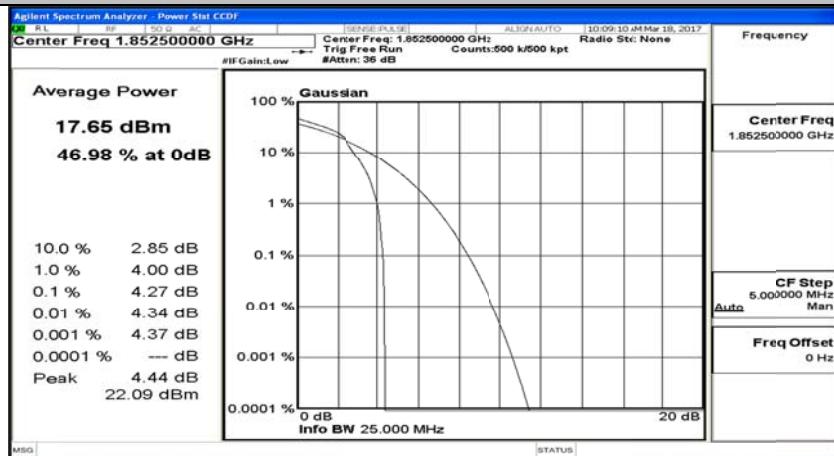


(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#12

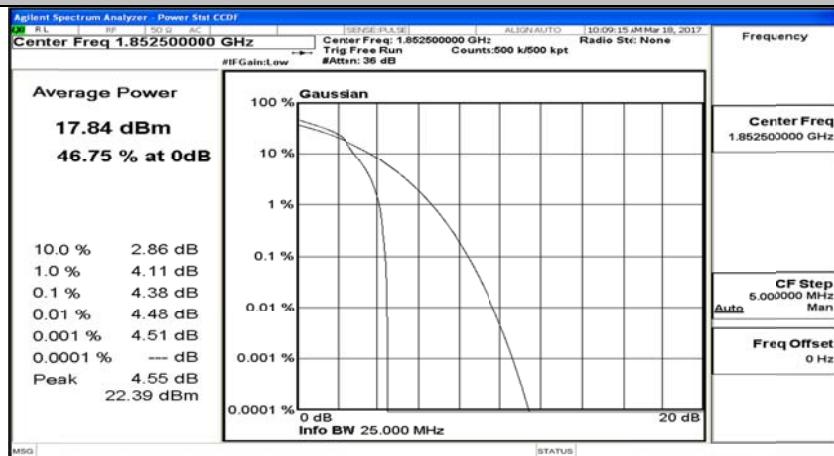




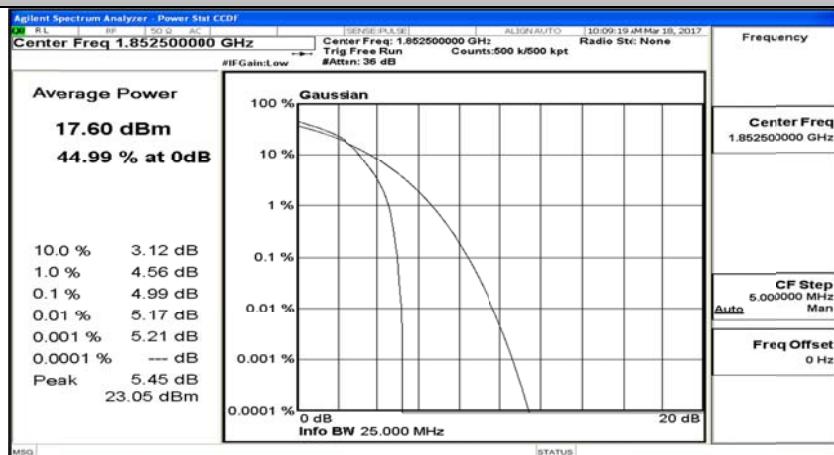
(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#0



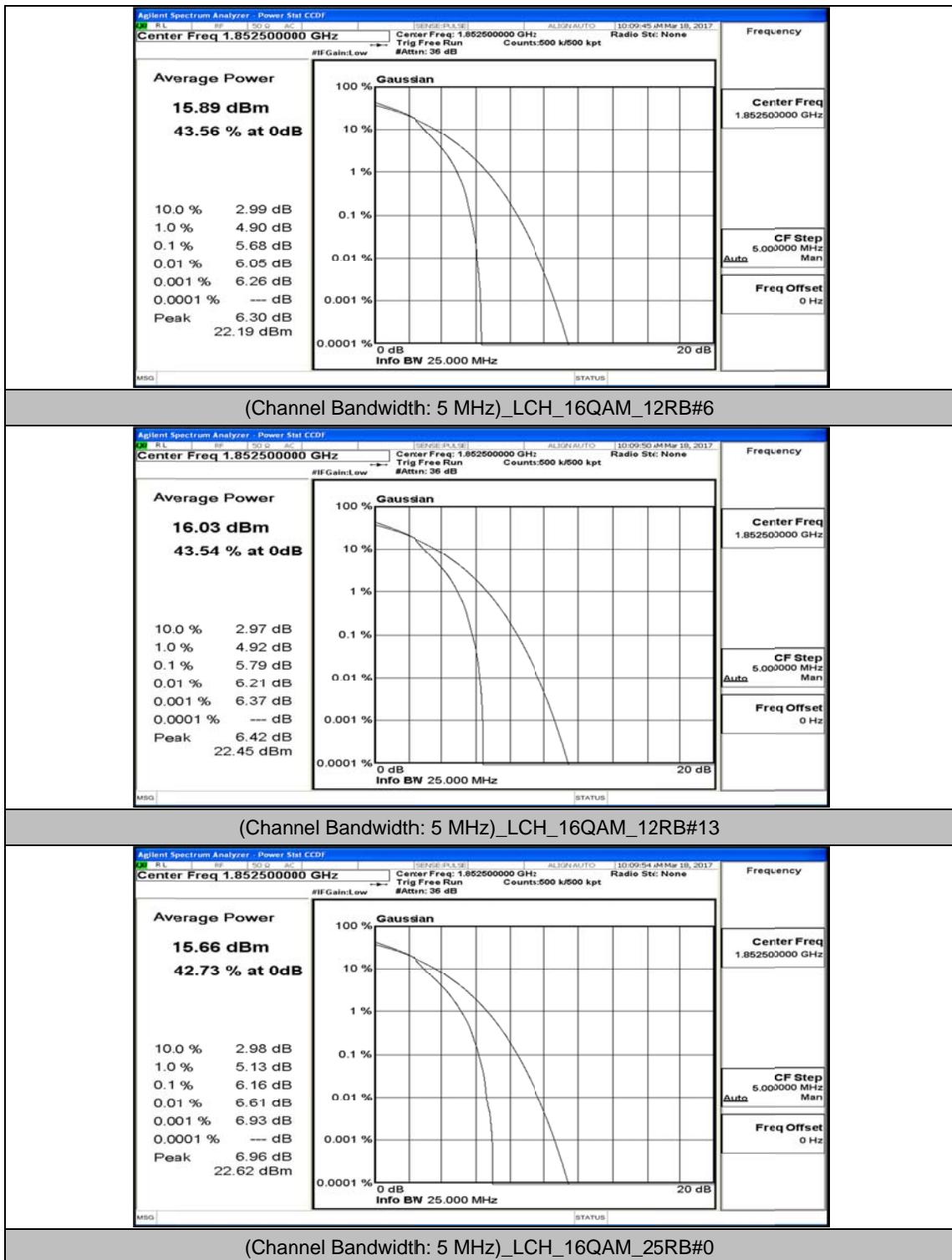
(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#12

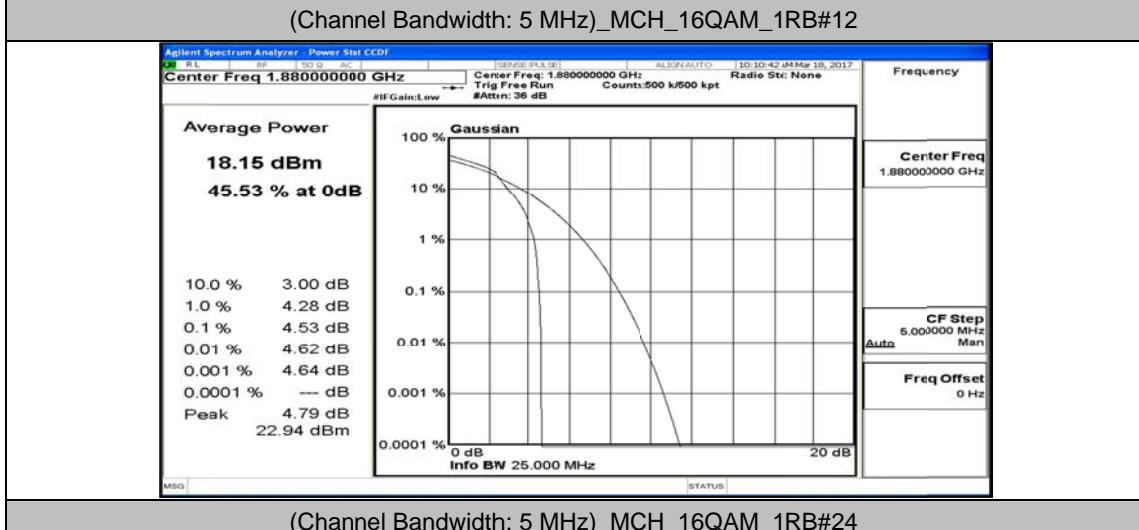
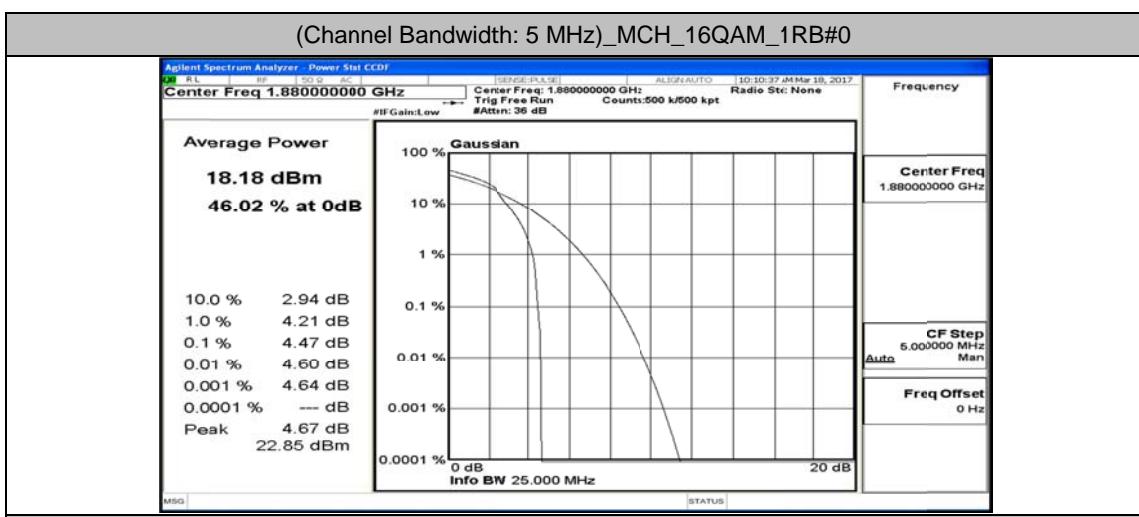
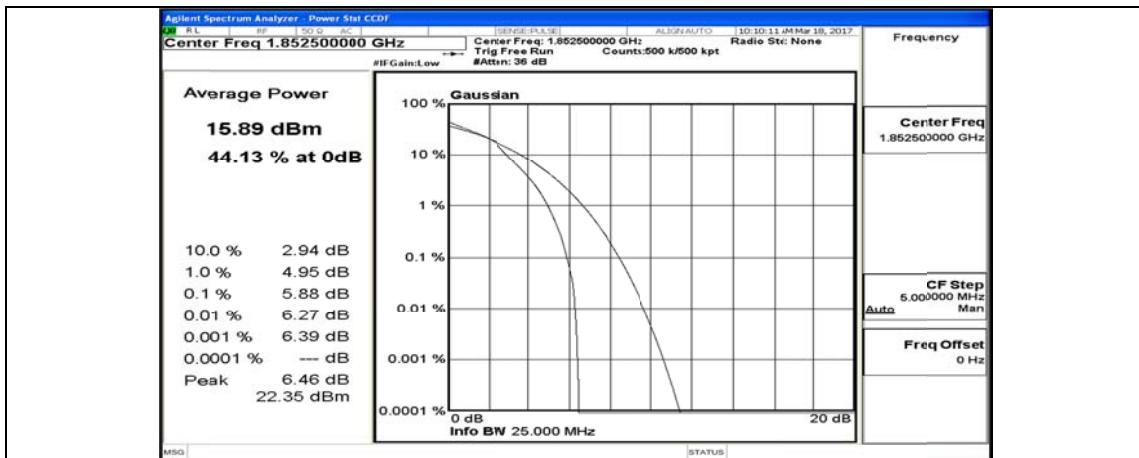


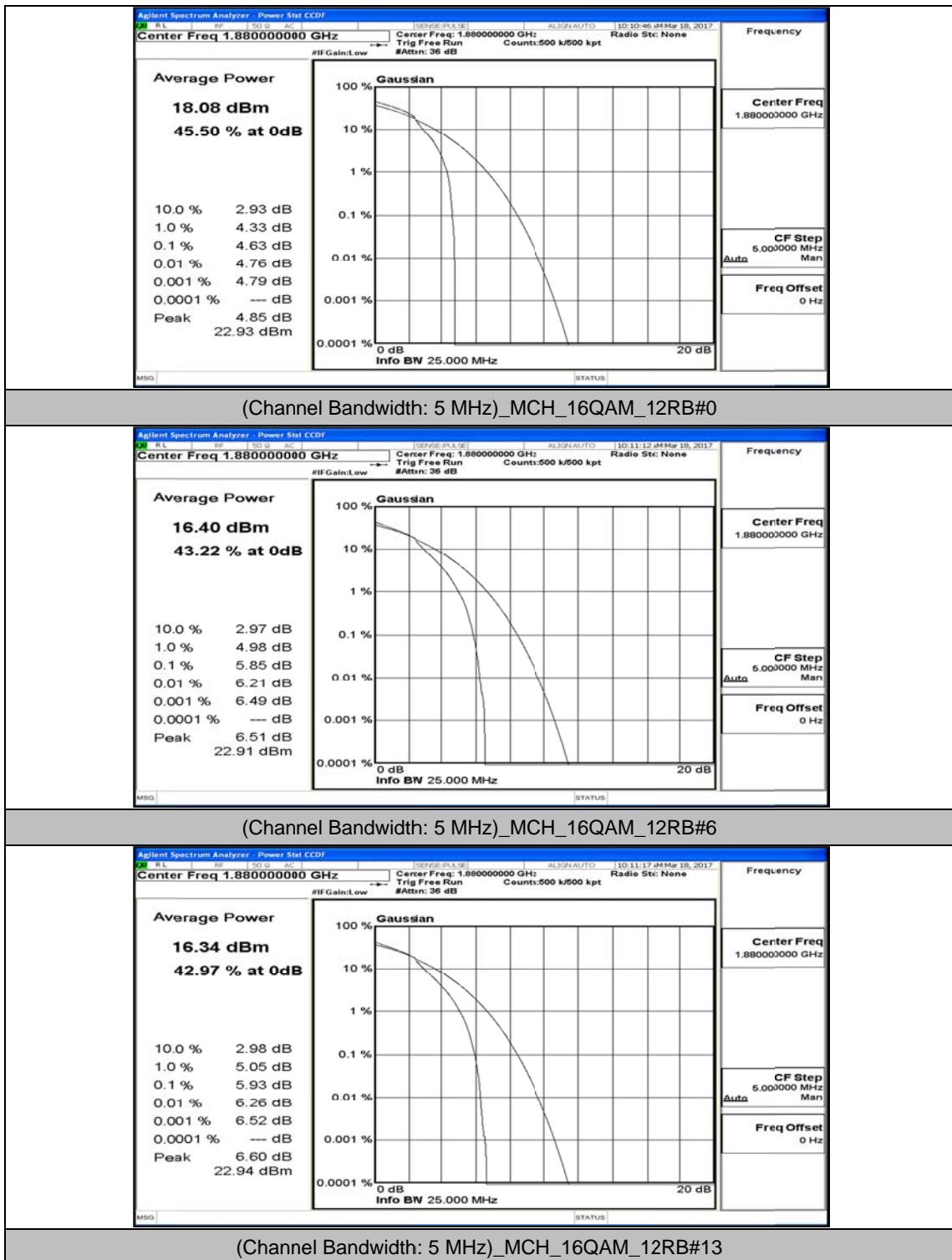
(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#24

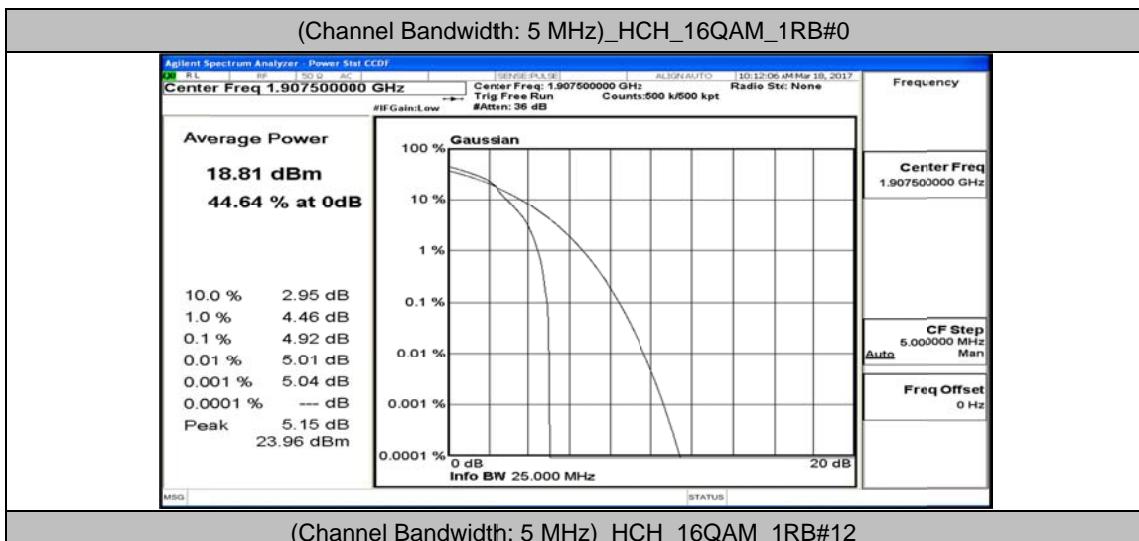
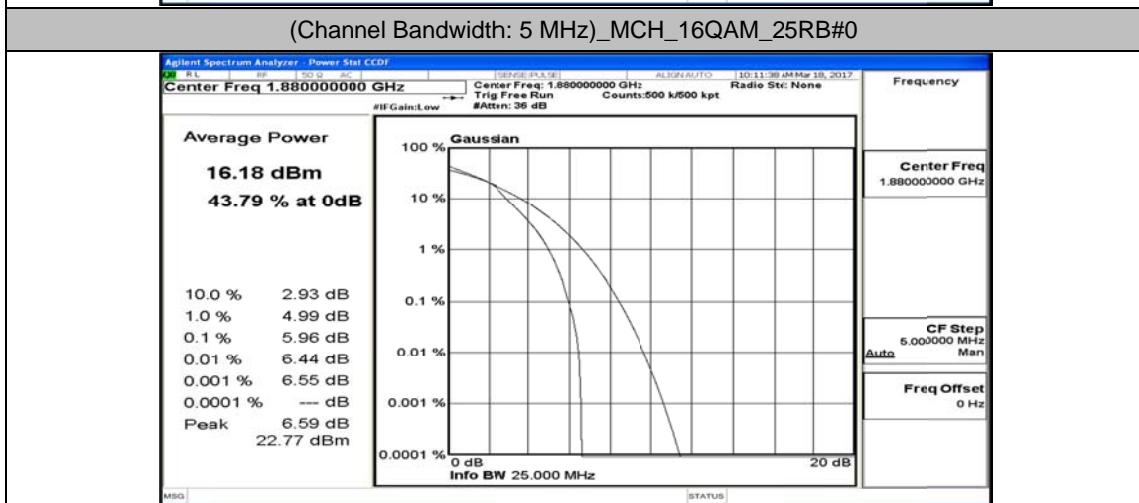
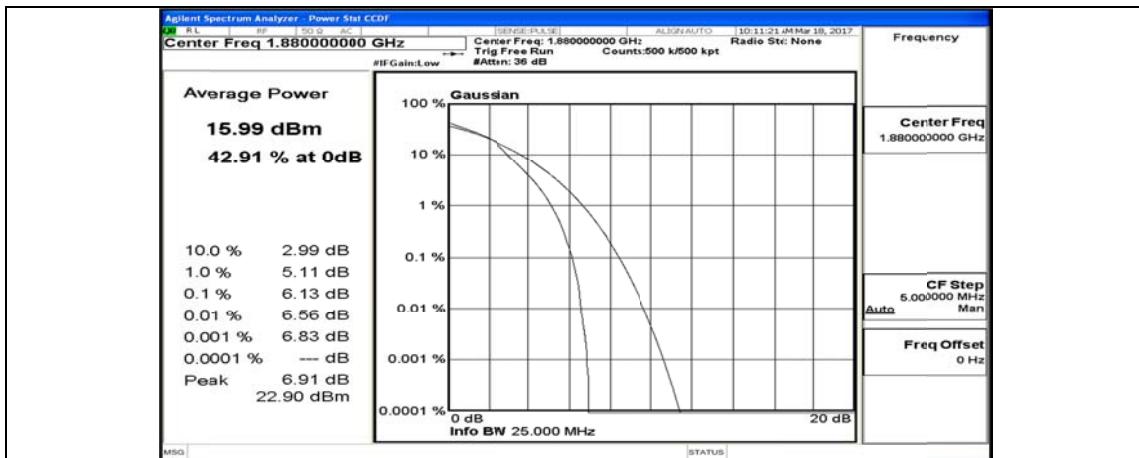


(Channel Bandwidth: 5 MHz)_LCH_16QAM_12RB#0

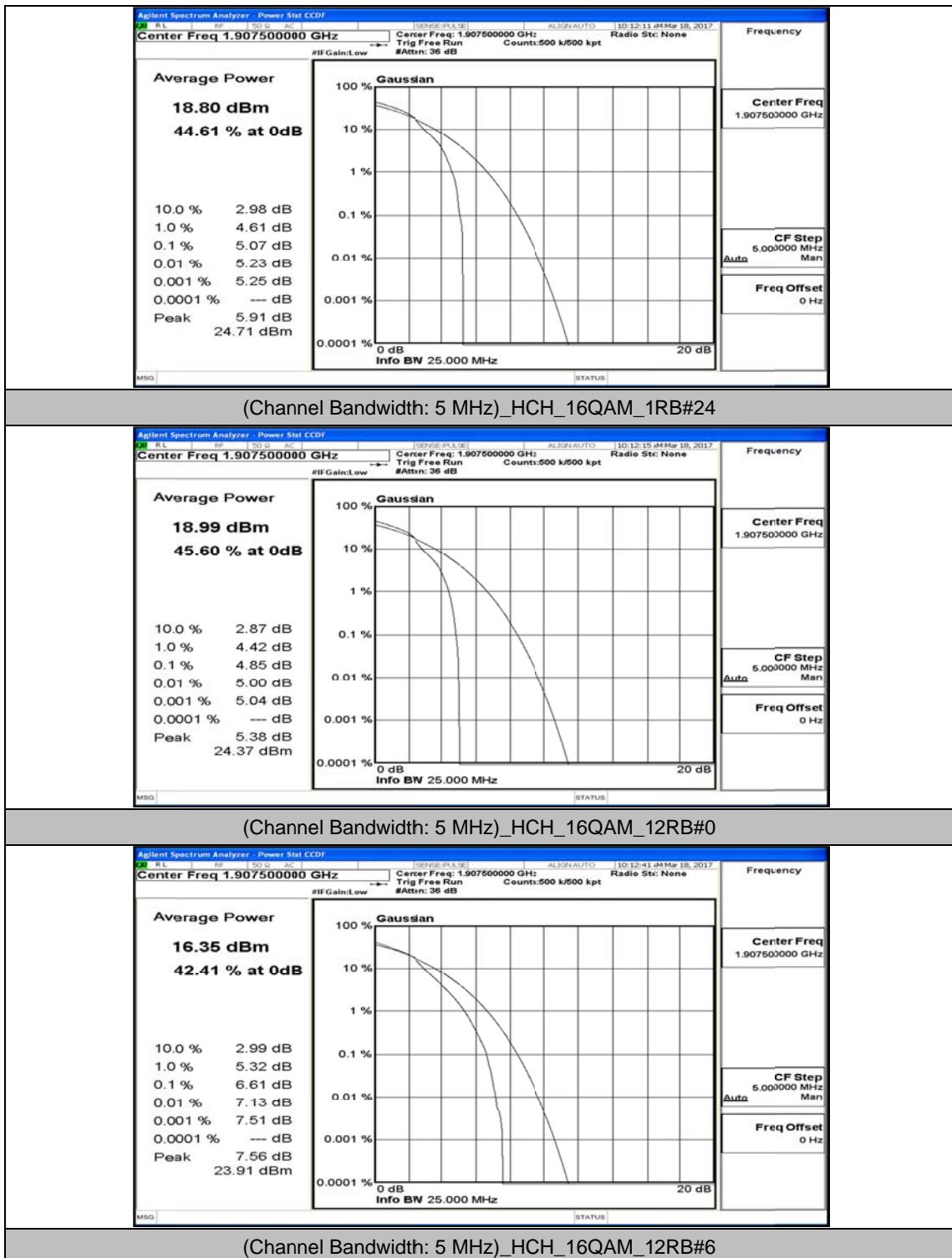


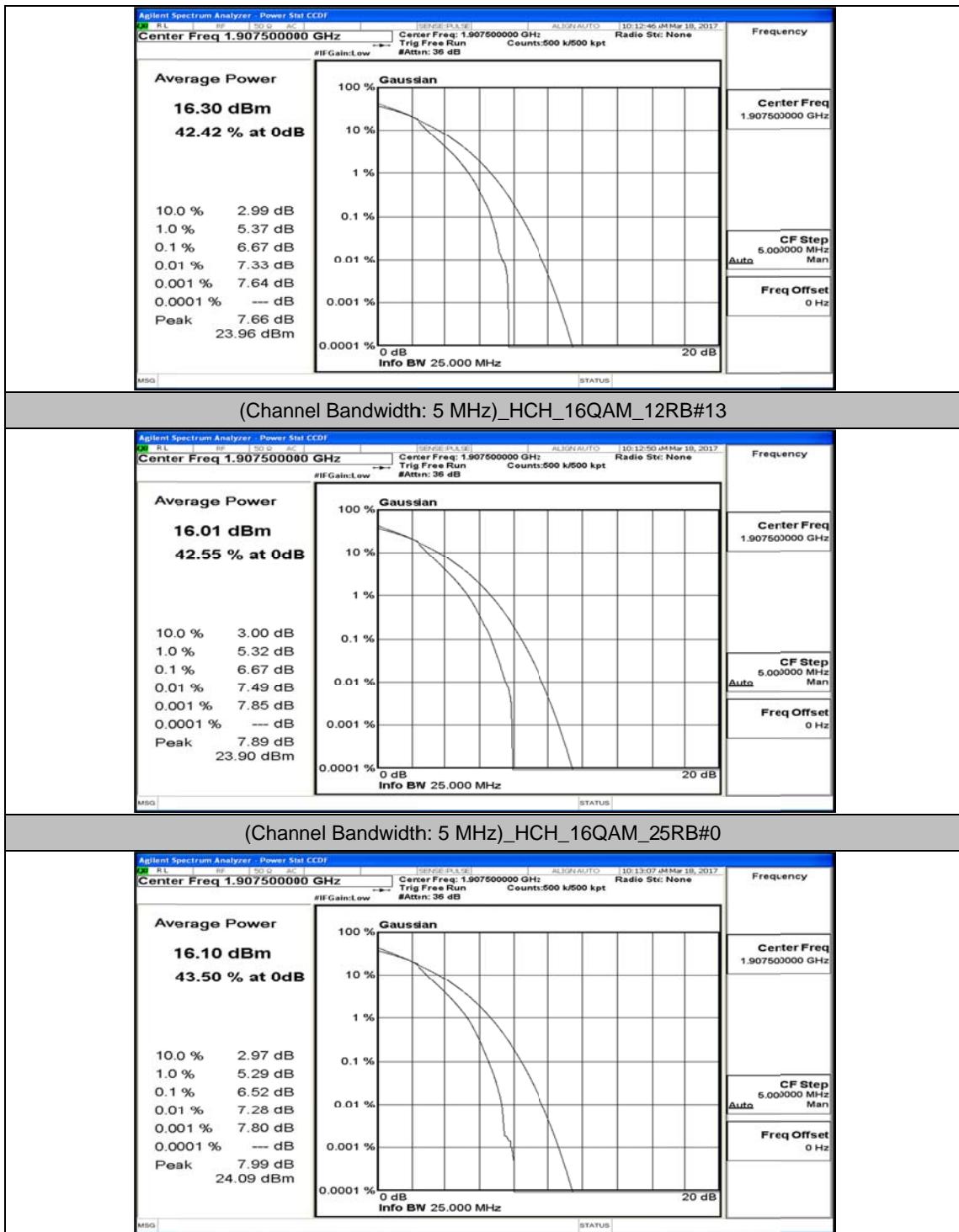




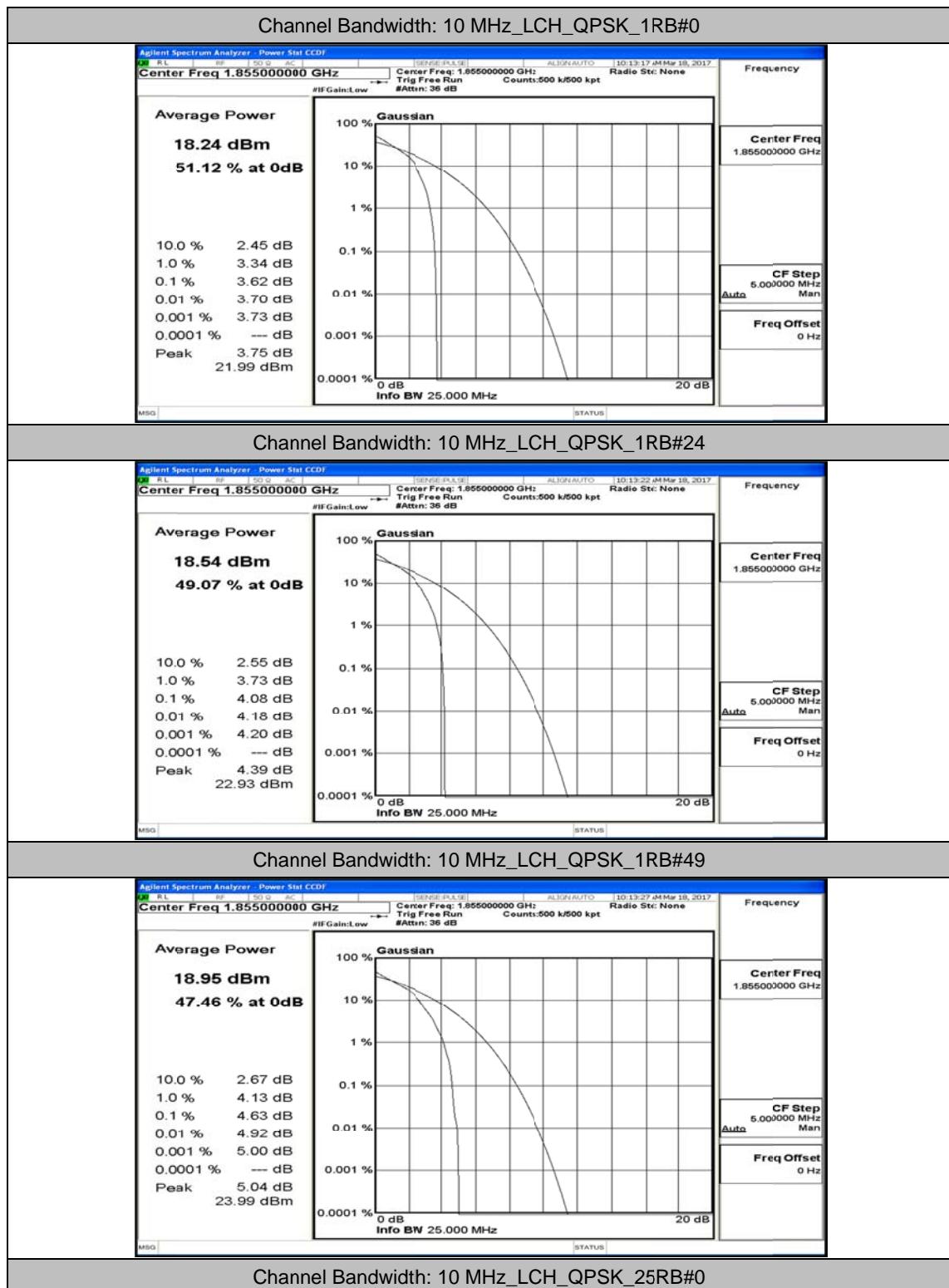


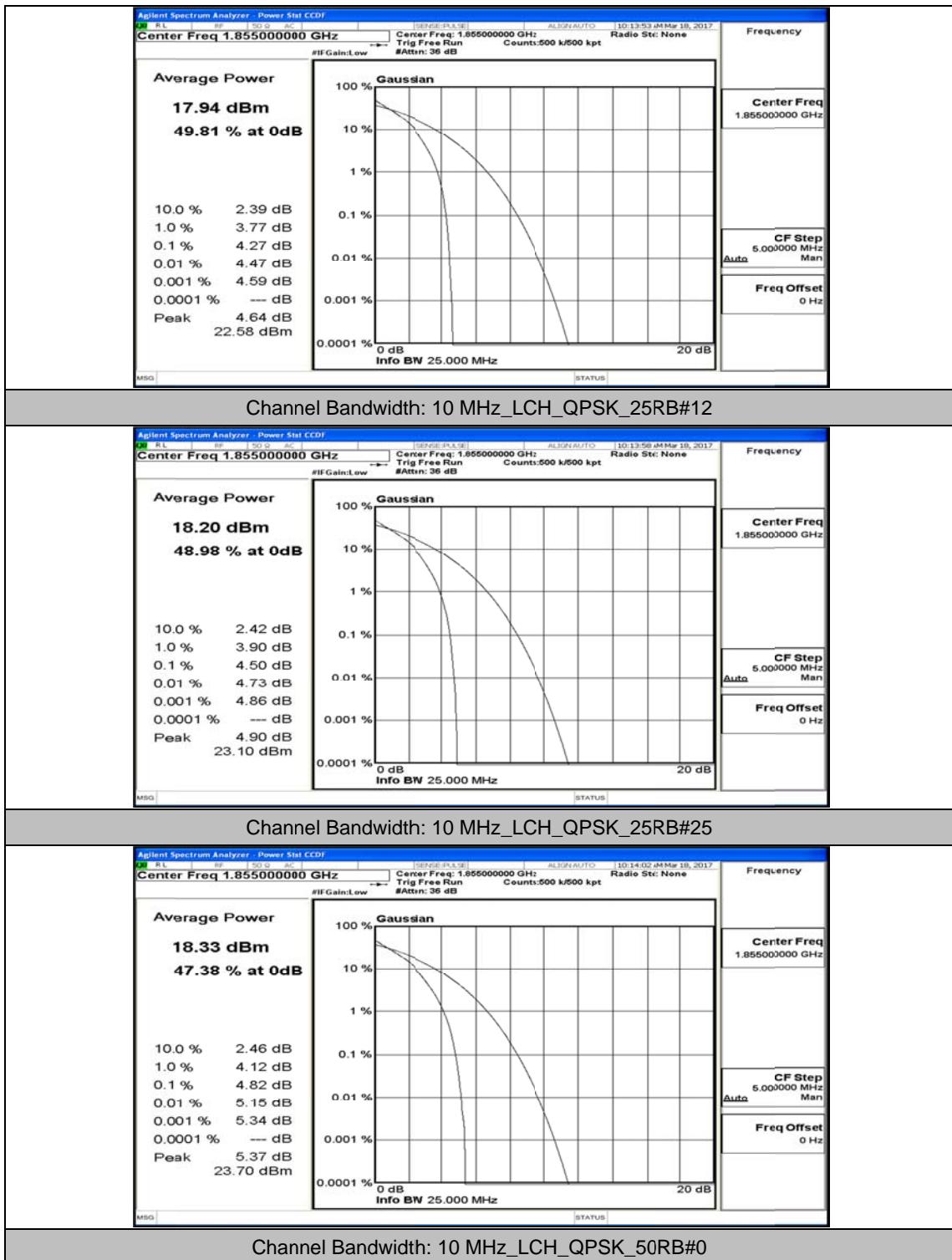
(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#12

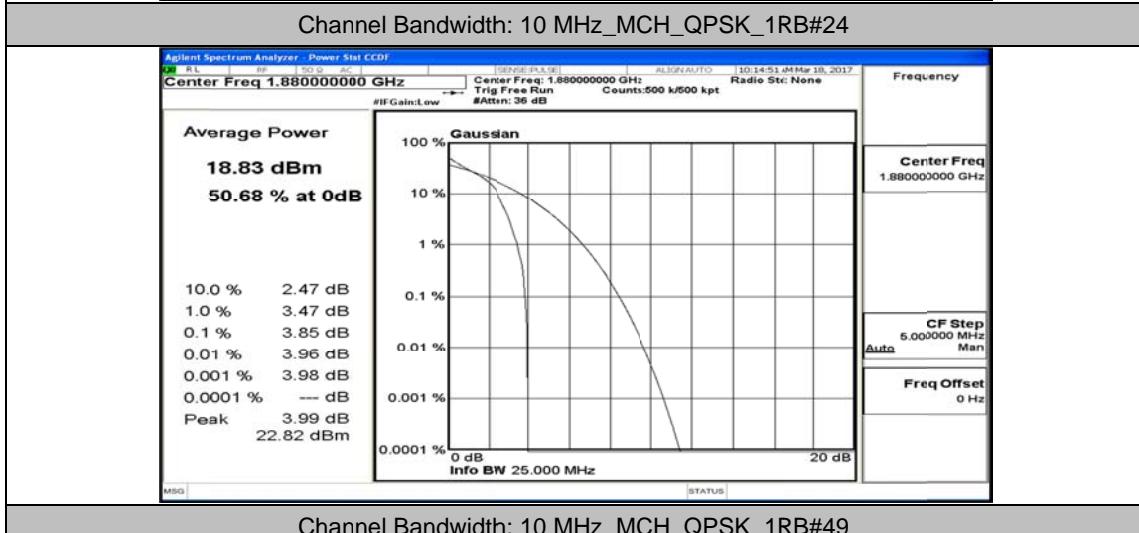
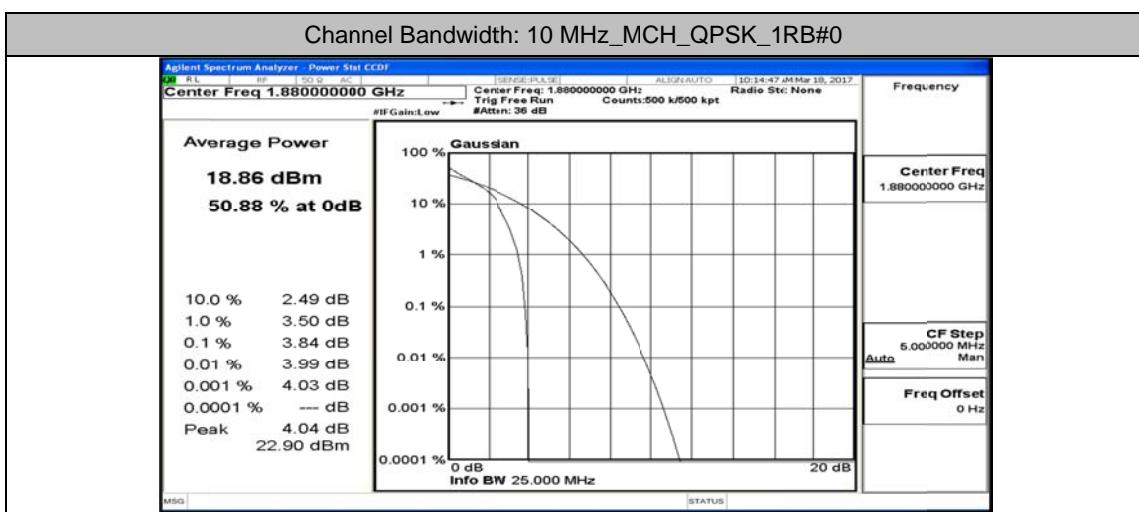
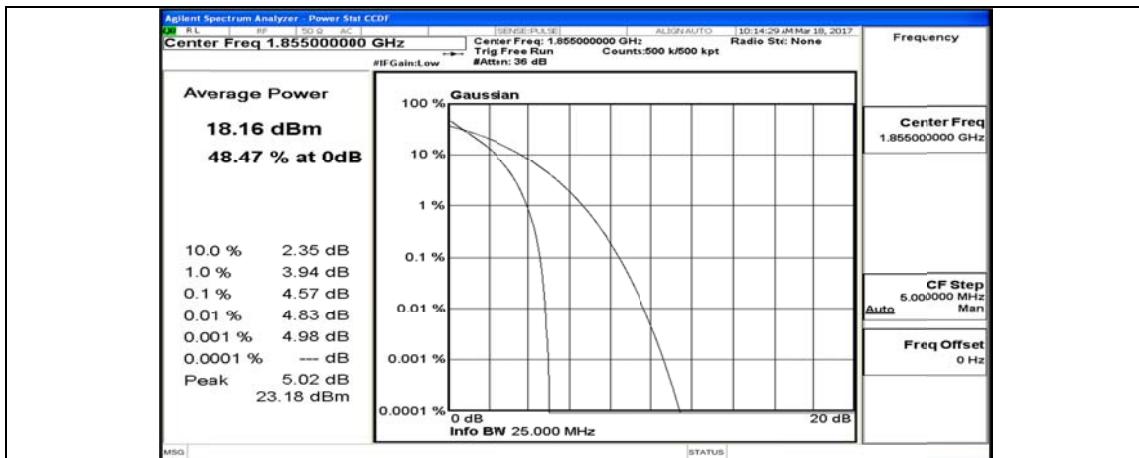




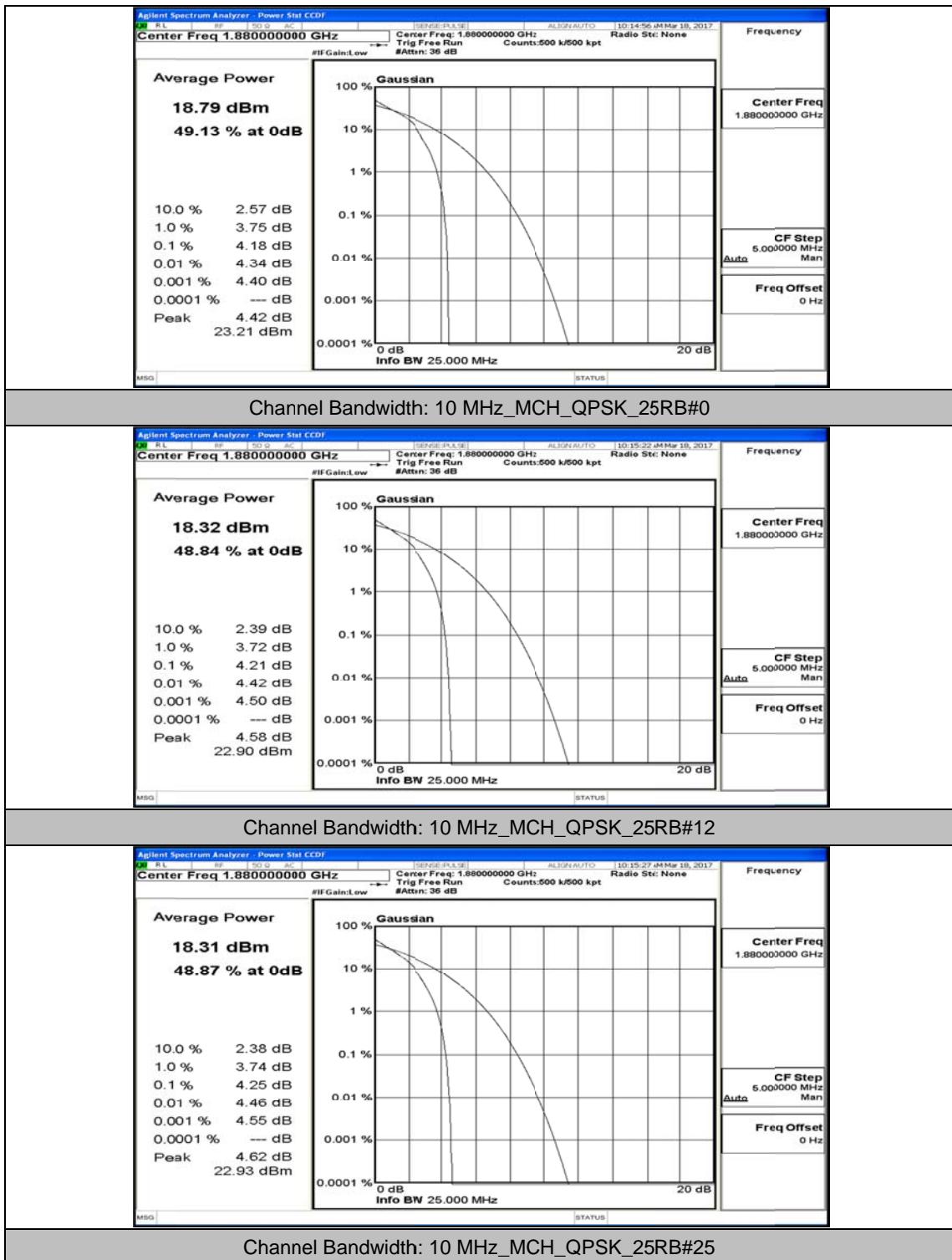
Channel Bandwidth: 10 MHz

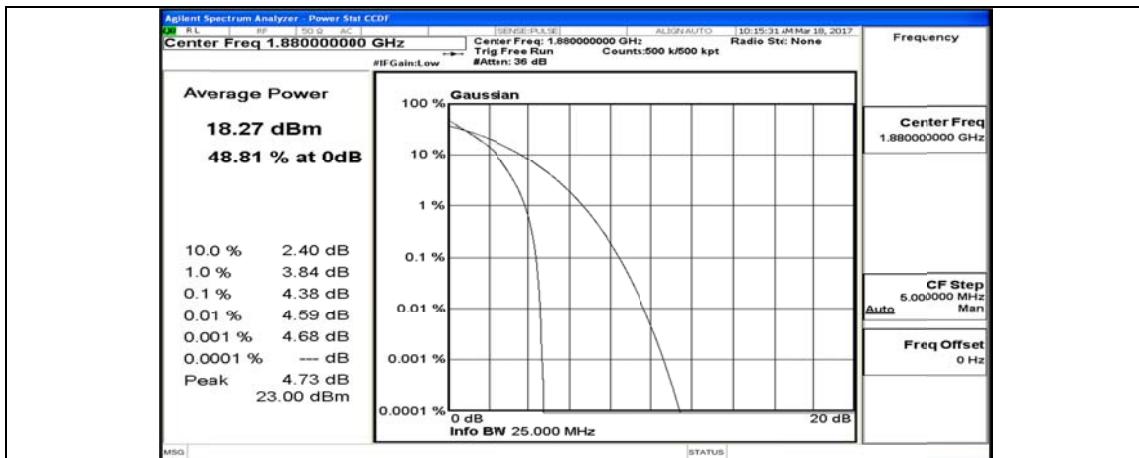




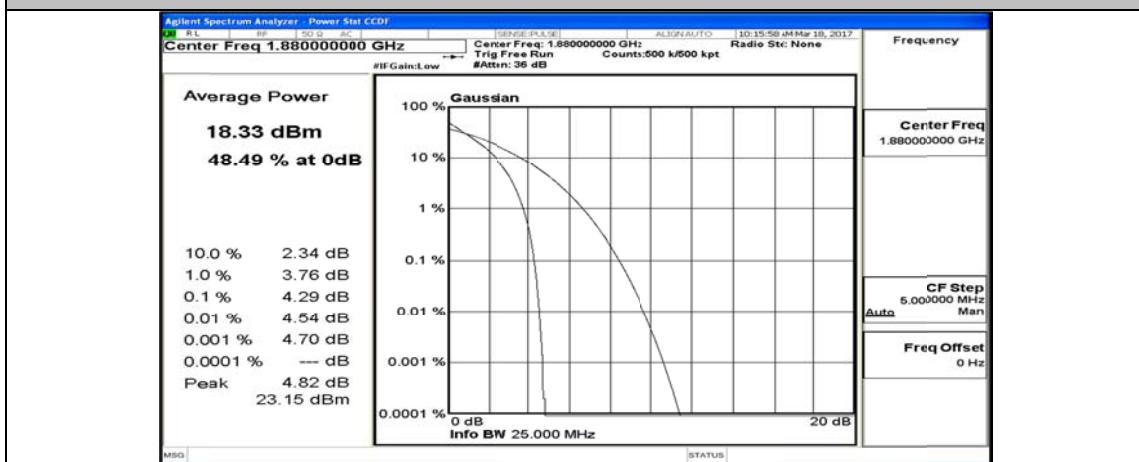


Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#49

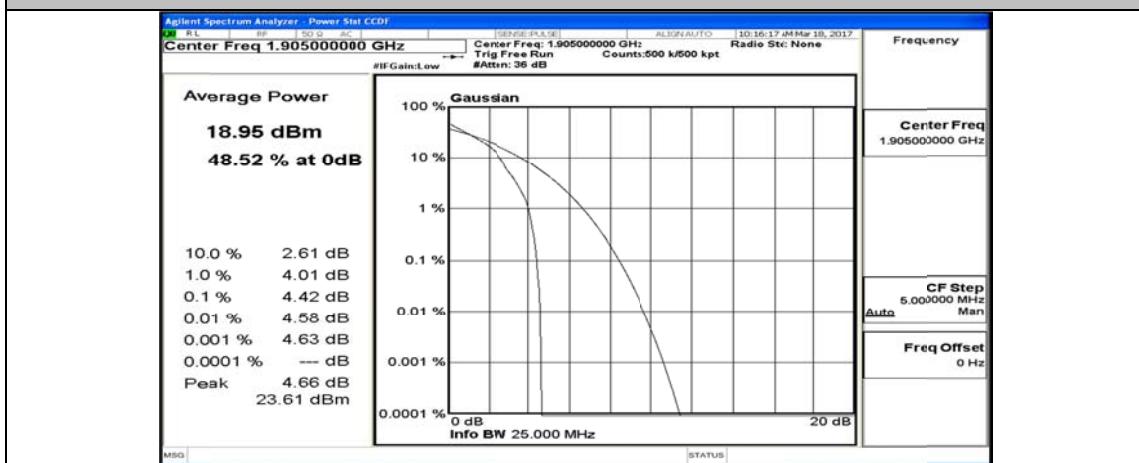




Channel Bandwidth: 10 MHz_MCH_QPSK_50RB#0



Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#0



Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#24

