

Appendix 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	2.33	<13	PASS
		1	3	2.26	<13	PASS
		1	5	2.33	<13	PASS
		3	0	2.63	<13	PASS
		3	2	2.5	<13	PASS
		3	3	2.65	<13	PASS
		6	0	3.86	<13	PASS
	MCH	1	0	3.33	<13	PASS
		1	3	3.27	<13	PASS
		1	5	3.3	<13	PASS
		3	0	3.51	<13	PASS
		3	2	3.45	<13	PASS
		3	3	3.49	<13	PASS
		6	0	4.55	<13	PASS
	HCH	1	0	2.37	<13	PASS
		1	3	2.16	<13	PASS
		1	5	2.14	<13	PASS
		3	0	2.62	<13	PASS
		3	2	2.41	<13	PASS
		3	3	2.57	<13	PASS
		6	0	3.81	<13	PASS
16QAM	LCH	1	0	3.44	<13	PASS
		1	3	3.39	<13	PASS
		1	5	3.43	<13	PASS
		3	0	3.56	<13	PASS
		3	2	3.56	<13	PASS
		3	3	3.59	<13	PASS
		6	0	4.75	<13	PASS
	MCH	1	0	4.31	<13	PASS
		1	3	4.26	<13	PASS
		1	5	4.25	<13	PASS
		3	0	4.48	<13	PASS
		3	2	4.46	<13	PASS

		3	3	4.47	<13	PASS
		6	0	5.4	<13	PASS
	HCH	1	0	3.43	<13	PASS
		1	3	3.27	<13	PASS
		1	5	3.25	<13	PASS
		3	0	3.45	<13	PASS
		3	2	3.37	<13	PASS
		3	3	3.37	<13	PASS
		6	0	4.71	<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	2.38	<13	PASS
		1	7	2.34	<13	PASS
		1	14	2.45	<13	PASS
		8	0	3.6	<13	PASS
		8	4	3.43	<13	PASS
		8	7	3.67	<13	PASS
		15	0	4.29	<13	PASS
	MCH	1	0	3.43	<13	PASS
		1	7	3.35	<13	PASS
		1	14	3.36	<13	PASS
		8	0	4.43	<13	PASS
		8	4	4.3	<13	PASS
		8	7	4.44	<13	PASS
		15	0	4.84	<13	PASS
	HCH	1	0	2.65	<13	PASS
		1	7	2.37	<13	PASS
		1	14	2.18	<13	PASS
		8	0	3.83	<13	PASS
		8	4	3.54	<13	PASS
		8	7	3.66	<13	PASS
		15	0	4.39	<13	PASS
16QAM	LCH	1	0	3.44	<13	PASS
		1	7	3.34	<13	PASS
		1	14	3.45	<13	PASS
		8	0	4.47	<13	PASS
		8	4	4.41	<13	PASS
		8	7	4.54	<13	PASS

	MCH	15	0	5.11	<13	PASS
		1	0	4.37	<13	PASS
		1	7	4.25	<13	PASS
		1	14	4.31	<13	PASS
		8	0	5.2	<13	PASS
		8	4	5.12	<13	PASS
		8	7	5.18	<13	PASS
		15	0	5.65	<13	PASS
	HCH	1	0	3.65	<13	PASS
		1	7	3.44	<13	PASS
		1	14	3.31	<13	PASS
		8	0	4.72	<13	PASS
		8	4	4.49	<13	PASS
		8	7	4.57	<13	PASS
		15	0	5.16	<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	2.31	<13	PASS
		1	12	2.31	<13	PASS
		1	24	2.54	<13	PASS
		12	0	3.62	<13	PASS
		12	6	3.5	<13	PASS
		12	13	3.76	<13	PASS
		25	0	4.31	<13	PASS
	MCH	1	0	3.3	<13	PASS
		1	12	3.27	<13	PASS
		1	24	3.24	<13	PASS
		12	0	4.41	<13	PASS
		12	6	4.3	<13	PASS
		12	13	4.38	<13	PASS
		25	0	4.84	<13	PASS
	HCH	1	0	2.88	<13	PASS
		1	12	2.56	<13	PASS
		1	24	2.18	<13	PASS
		12	0	4.02	<13	PASS
		12	6	3.73	<13	PASS
		12	13	3.75	<13	PASS
		25	0	4.39	<13	PASS

16QAM	LCH	1	0	3.36	<13	PASS
		1	12	3.4	<13	PASS
		1	24	3.6	<13	PASS
		12	0	4.51	<13	PASS
		12	6	4.44	<13	PASS
		12	13	4.65	<13	PASS
		25	0	5.09	<13	PASS
	MCH	1	0	4.28	<13	PASS
		1	12	4.26	<13	PASS
		1	24	4.2	<13	PASS
		12	0	5.27	<13	PASS
		12	6	5.18	<13	PASS
		12	13	5.19	<13	PASS
		25	0	5.58	<13	PASS
	HCH	1	0	3.65	<13	PASS
		1	12	3.43	<13	PASS
		1	24	3.24	<13	PASS
		12	0	4.96	<13	PASS
		12	6	4.73	<13	PASS
		12	13	4.7	<13	PASS
		25	0	5.23	<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	2.36	<13	PASS
		1	24	2.55	<13	PASS
		1	49	3.05	<13	PASS
		25	0	3.97	<13	PASS
		25	12	3.86	<13	PASS
		25	25	4.3	<13	PASS
		50	0	4.73	<13	PASS
	MCH	1	0	3.34	<13	PASS
		1	24	3.39	<13	PASS
		1	49	3.16	<13	PASS
		25	0	4.63	<13	PASS
		25	12	4.46	<13	PASS
		25	25	4.56	<13	PASS
		50	0	4.95	<13	PASS
	HCH	1	0	3.38	<13	PASS

		1	24	2.9	<13	PASS
		1	49	2.2	<13	PASS
		25	0	4.53	<13	PASS
		25	12	4.21	<13	PASS
		25	25	4.15	<13	PASS
		50	0	4.79	<13	PASS
16QAM	LCH	1	0	3.4	<13	PASS
		1	24	3.51	<13	PASS
		1	49	4.02	<13	PASS
		25	0	4.83	<13	PASS
		25	12	4.76	<13	PASS
		25	25	5.17	<13	PASS
		50	0	5.39	<13	PASS
	MCH	1	0	4.25	<13	PASS
		1	24	4.32	<13	PASS
		1	49	4.1	<13	PASS
		25	0	5.43	<13	PASS
		25	12	5.27	<13	PASS
		25	25	5.38	<13	PASS
		50	0	5.68	<13	PASS
	HCH	1	0	4.3	<13	PASS
		1	24	3.89	<13	PASS
		1	49	3.37	<13	PASS
		25	0	5.39	<13	PASS
		25	12	5.09	<13	PASS
		25	25	5.03	<13	PASS
		50	0	5.54	<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	9.06	<13	PASS
		1	37	2.81	<13	PASS
		1	74	10.31	<13	PASS
		37	0	4.36	<13	PASS
		37	18	4.36	<13	PASS
		37	38	4.59	<13	PASS
		75	0	4.92	<13	PASS
	MCH	1	0	8.85	<13	PASS
		1	37	3.33	<13	PASS

		1	74	10.54	<13	PASS
		37	0	4.38	<13	PASS
		37	18	4.66	<13	PASS
		37	38	4.58	<13	PASS
		75	0	4.9	<13	PASS
	HCH	1	0	8.54	<13	PASS
		1	37	3.24	<13	PASS
		1	74	10.81	<13	PASS
		37	0	4.36	<13	PASS
		37	18	4.65	<13	PASS
		37	38	4.56	<13	PASS
		75	0	4.9	<13	PASS
16QAM	LCH	1	0	8.64	<13	PASS
		1	37	3.76	<13	PASS
		1	74	10.57	<13	PASS
		37	0	5.41	<13	PASS
		37	18	5.19	<13	PASS
		37	38	5.73	<13	PASS
		75	0	5.96	<13	PASS
	MCH	1	0	8.26	<13	PASS
		1	37	4.28	<13	PASS
		1	74	10.73	<13	PASS
		37	0	5.51	<13	PASS
		37	18	5.48	<13	PASS
		37	38	5.7	<13	PASS
		75	0	5.97	<13	PASS
	HCH	1	0	8.18	<13	PASS
		1	37	4.17	<13	PASS
		1	74	11.23	<13	PASS
		37	0	5.53	<13	PASS
		37	18	5.47	<13	PASS
		37	38	5.65	<13	PASS
		75	0	5.96	<13	PASS

Channel Bandwidth: 20 MHz

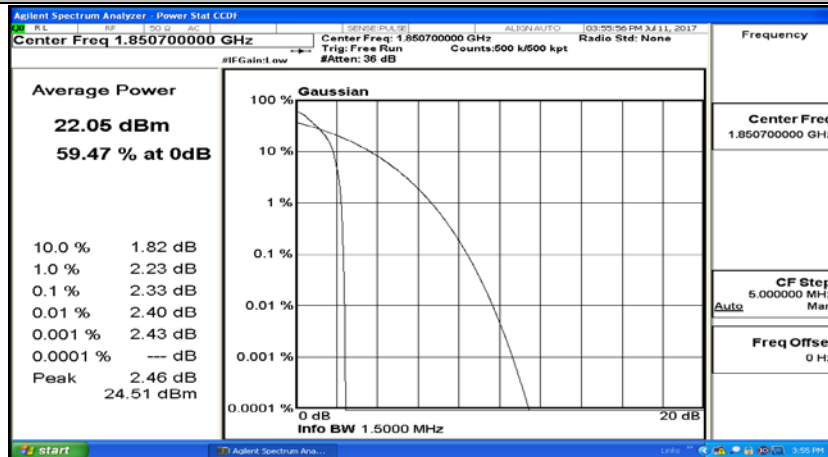
Channel Bandwidth: 20 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	LCH	1	0	8.76	<13	PASS
		1	49	3.06	<13	PASS
		1	99	9.01	<13	PASS

		50	0	5.33	<13	PASS
		50	25	4.89	<13	PASS
		50	50	5.67	<13	PASS
		100	0	5.72	<13	PASS
	MCH	1	0	8.06	<13	PASS
		1	49	3.34	<13	PASS
		1	99	7.97	<13	PASS
		50	0	5.31	<13	PASS
		50	25	4.97	<13	PASS
		50	50	5.68	<13	PASS
		100	0	5.67	<13	PASS
	HCH	1	0	7.69	<13	PASS
		1	49	3.47	<13	PASS
		1	99	9.37	<13	PASS
		50	0	5.34	<13	PASS
		50	25	5.04	<13	PASS
		50	50	5.74	<13	PASS
		100	0	5.78	<13	PASS
16QAM	LCH	1	0	8.79	<13	PASS
		1	49	3.93	<13	PASS
		1	99	8.75	<13	PASS
		50	0	6.34	<13	PASS
		50	25	5.64	<13	PASS
		50	50	6.51	<13	PASS
		100	0	6.7	<13	PASS
	MCH	1	0	7.84	<13	PASS
		1	49	4.21	<13	PASS
		1	99	7.75	<13	PASS
		50	0	6.26	<13	PASS
		50	25	5.7	<13	PASS
		50	50	6.45	<13	PASS
		100	0	6.61	<13	PASS
	HCH	1	0	7.66	<13	PASS
		1	49	4.3	<13	PASS
		1	99	8.56	<13	PASS
		50	0	6.3	<13	PASS
		50	25	5.73	<13	PASS
		50	50	6.46	<13	PASS
		100	0	6.54	<13	PASS

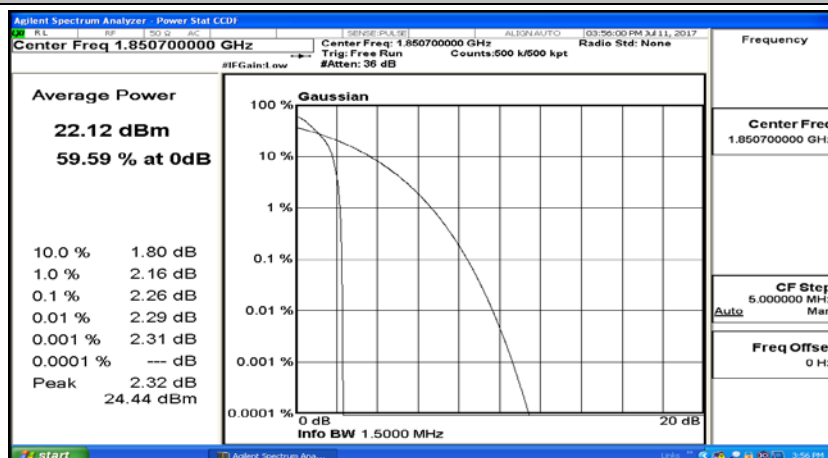
Test Graphs

Channel Bandwidth: 1.4 MHz

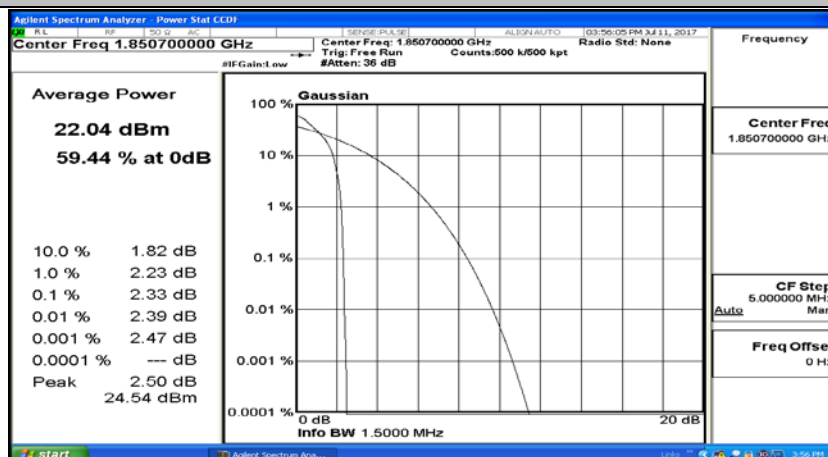
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#0



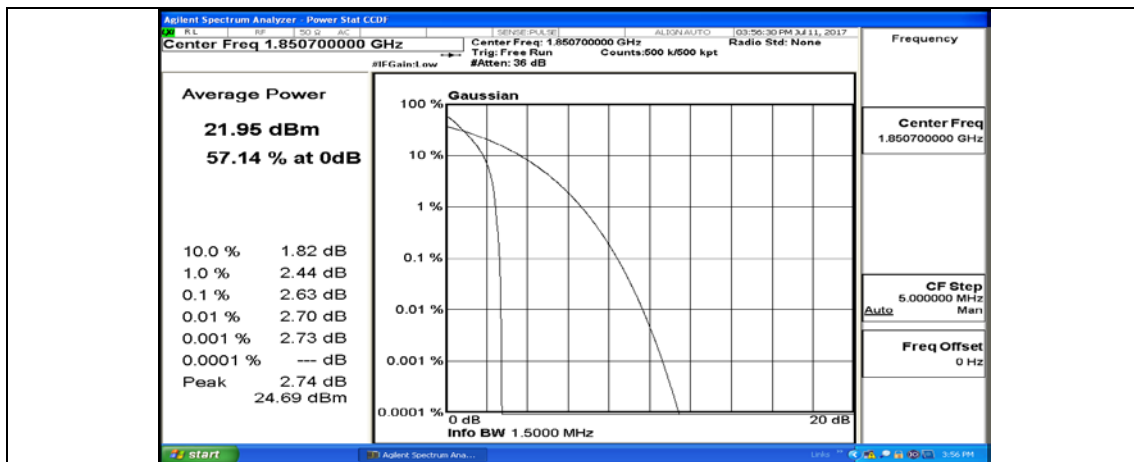
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#3



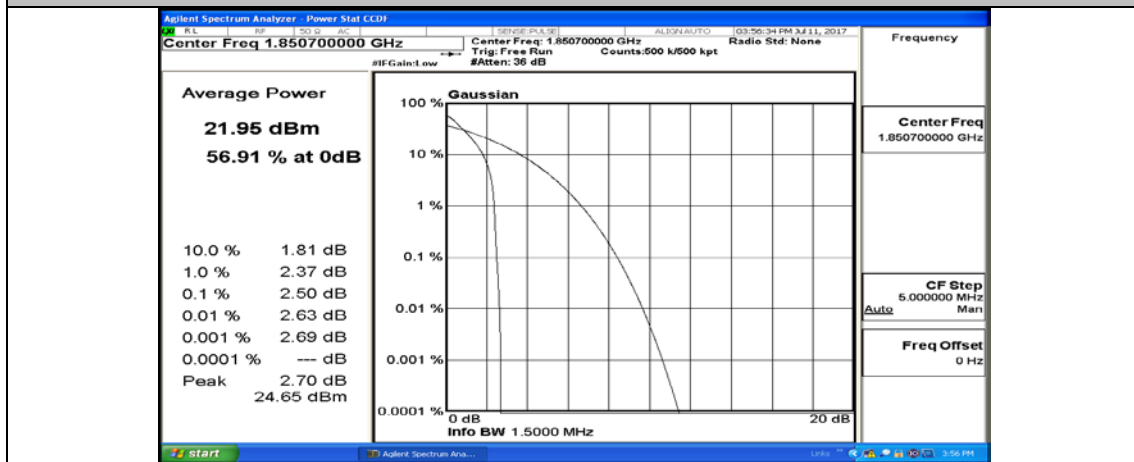
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#5



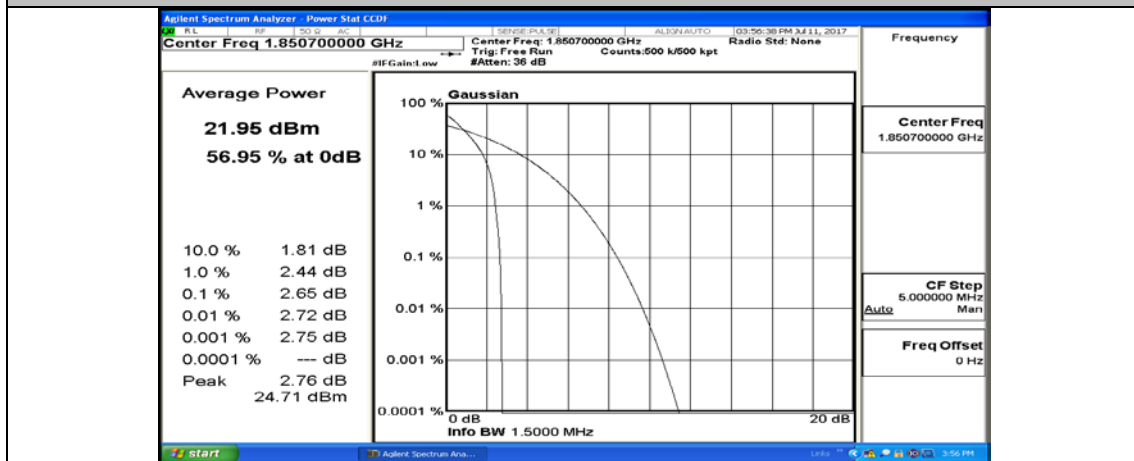
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_3RB#0



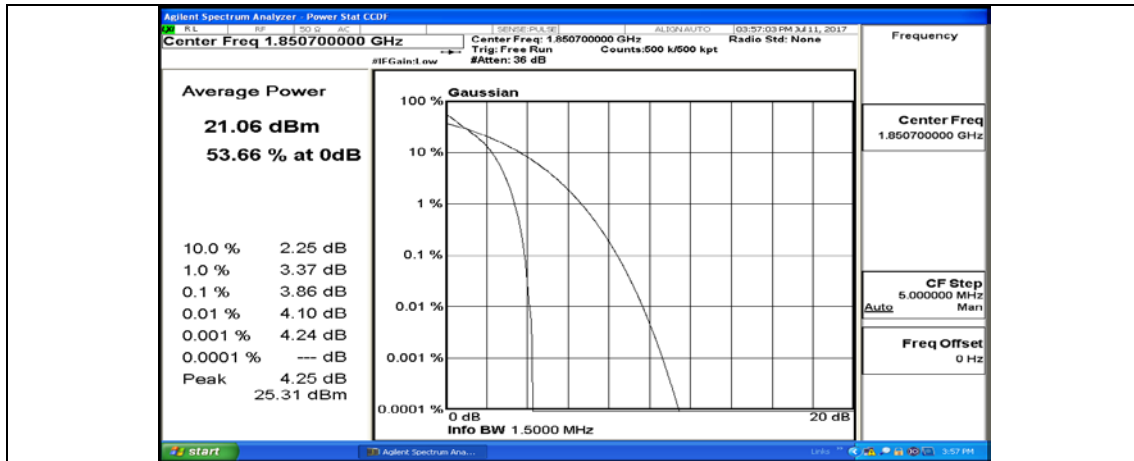
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_3RB#2



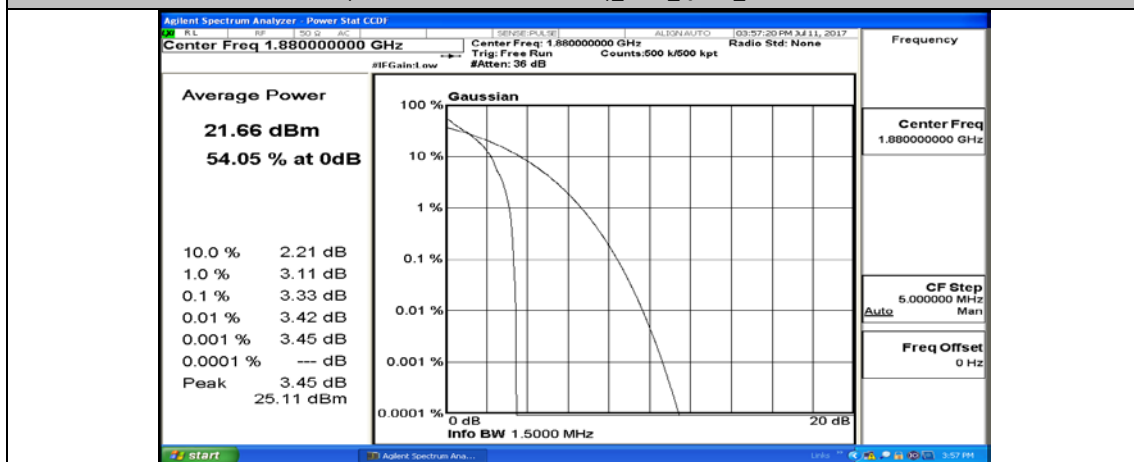
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_3RB#3



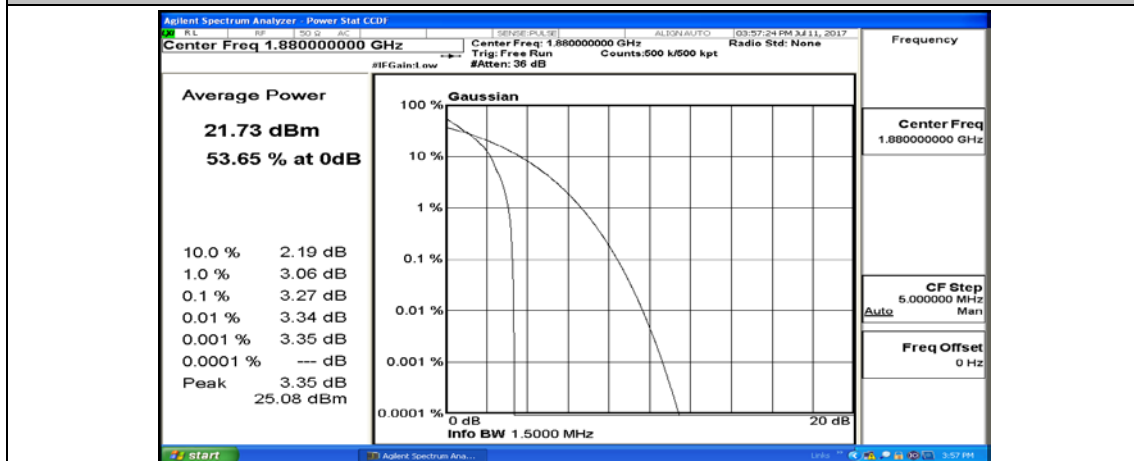
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_6RB#0



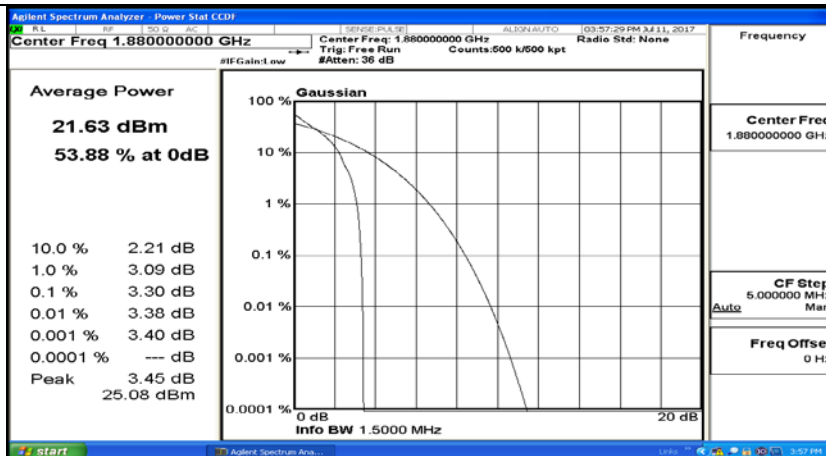
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#0



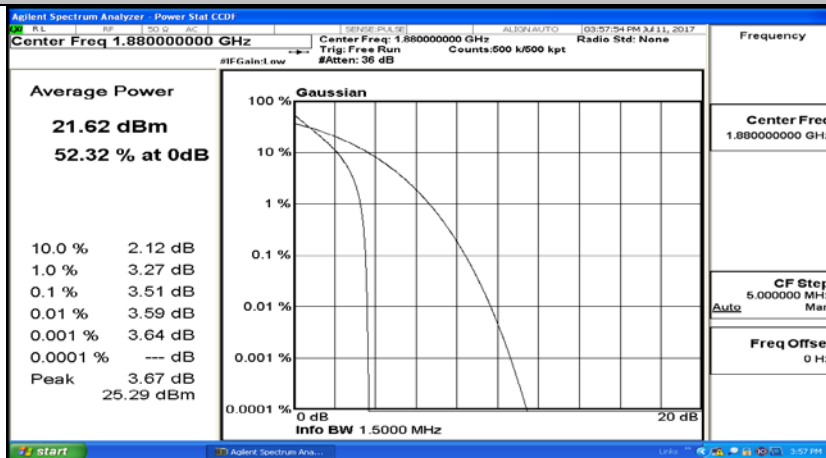
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#3



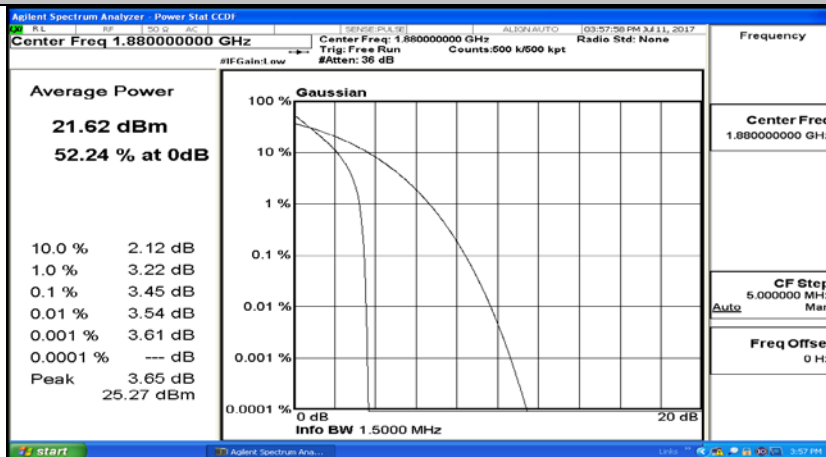
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#5



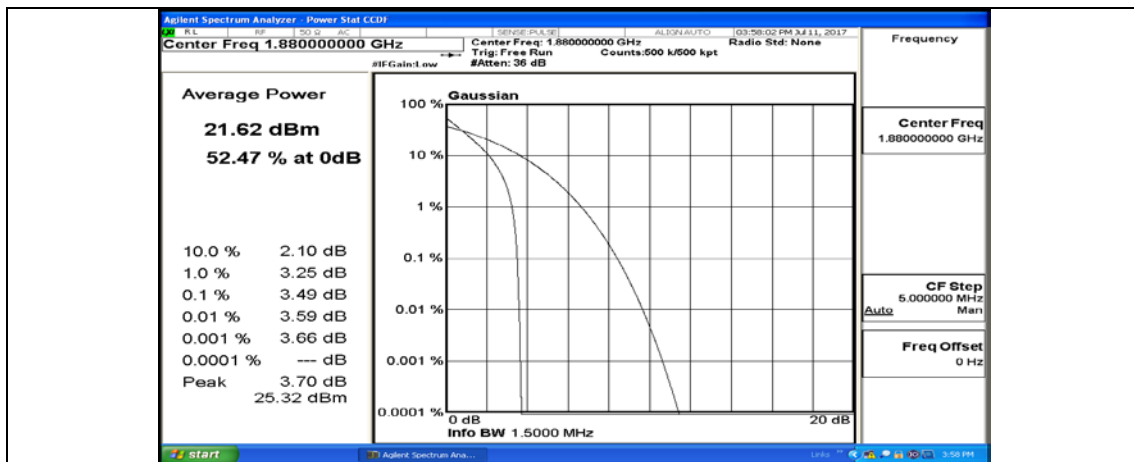
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_3RB#0



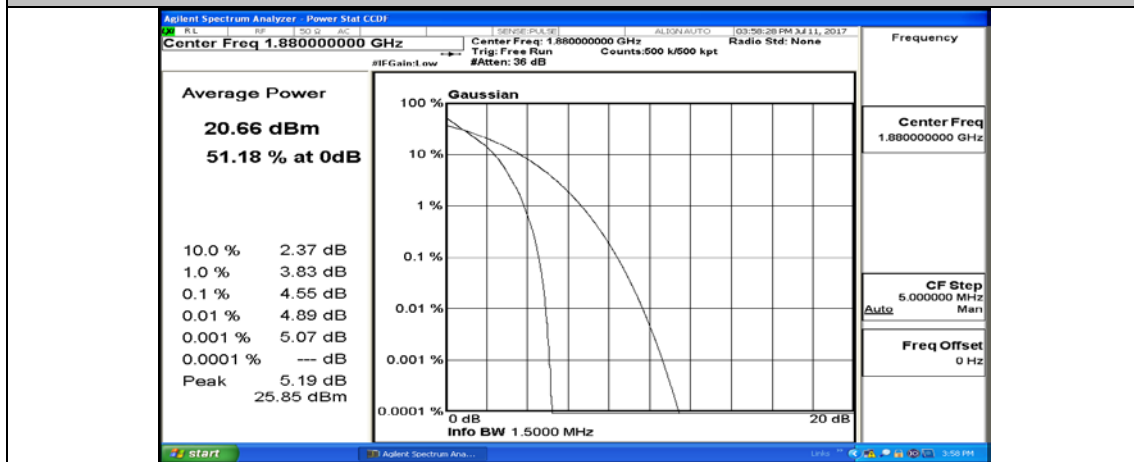
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_3RB#2



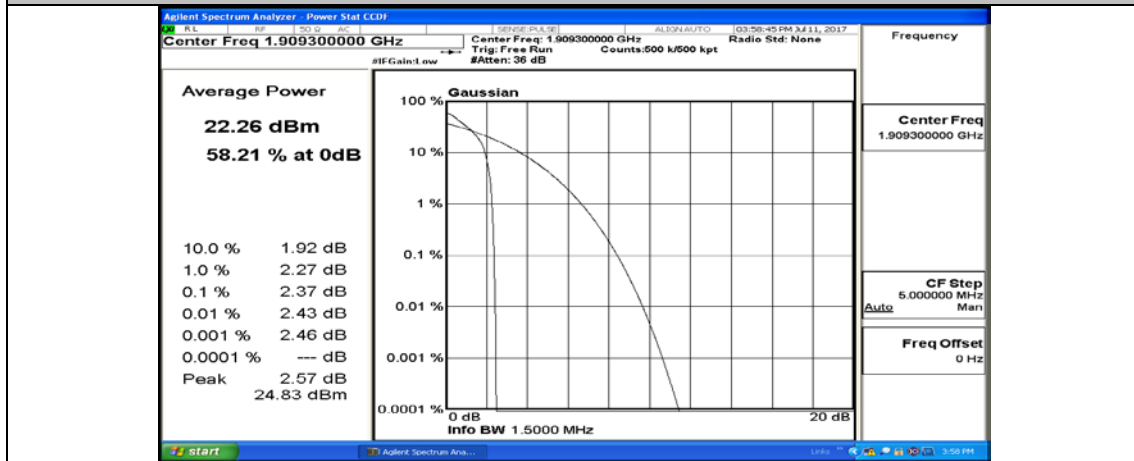
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_3RB#3



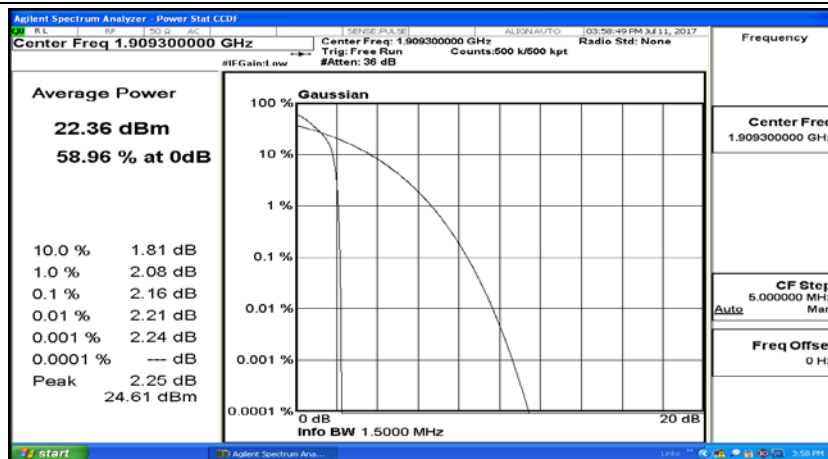
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_6RB#0



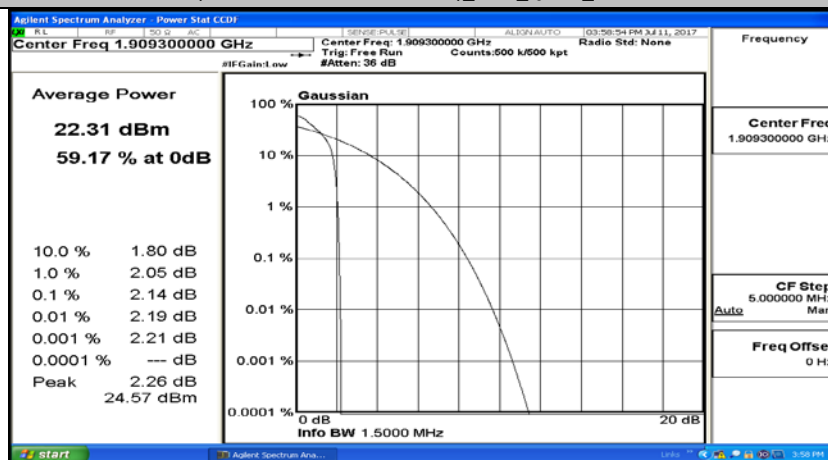
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#0



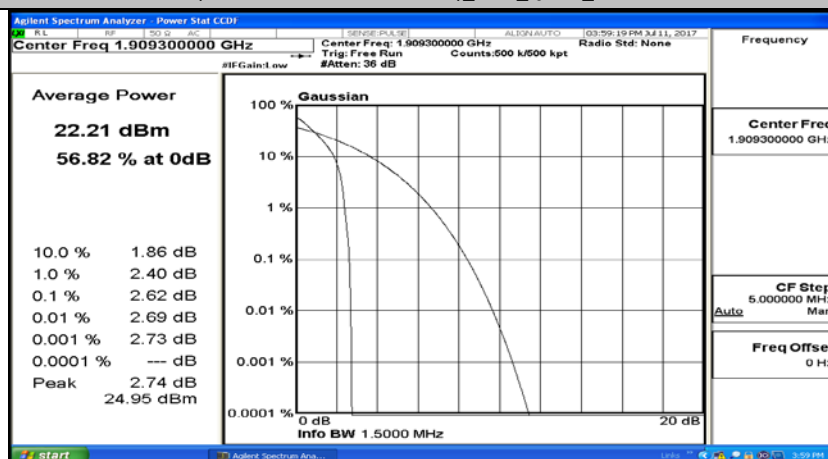
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#3



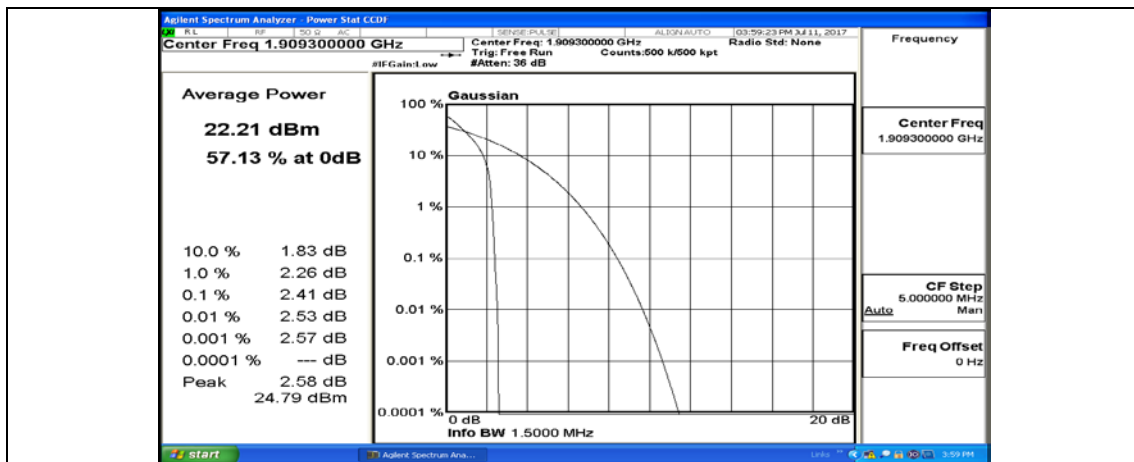
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#5



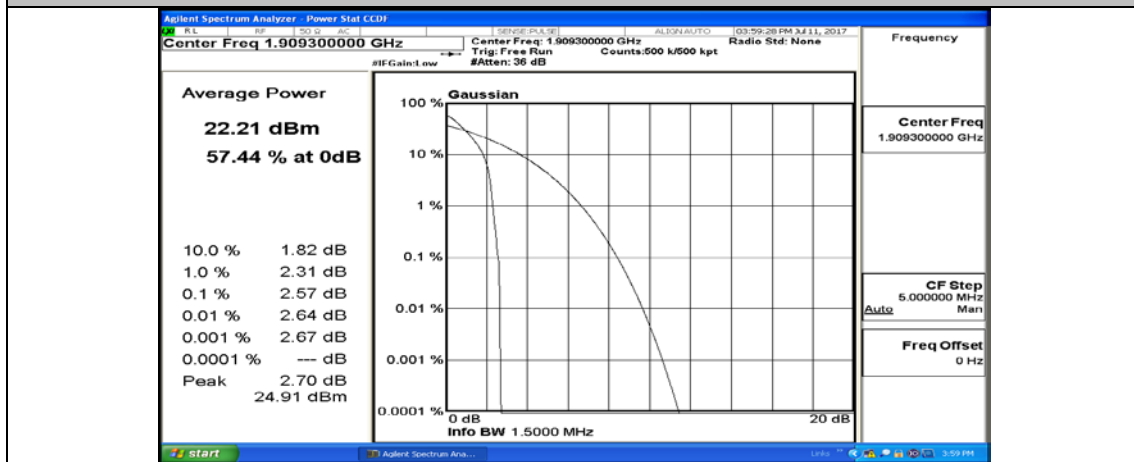
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_3RB#0



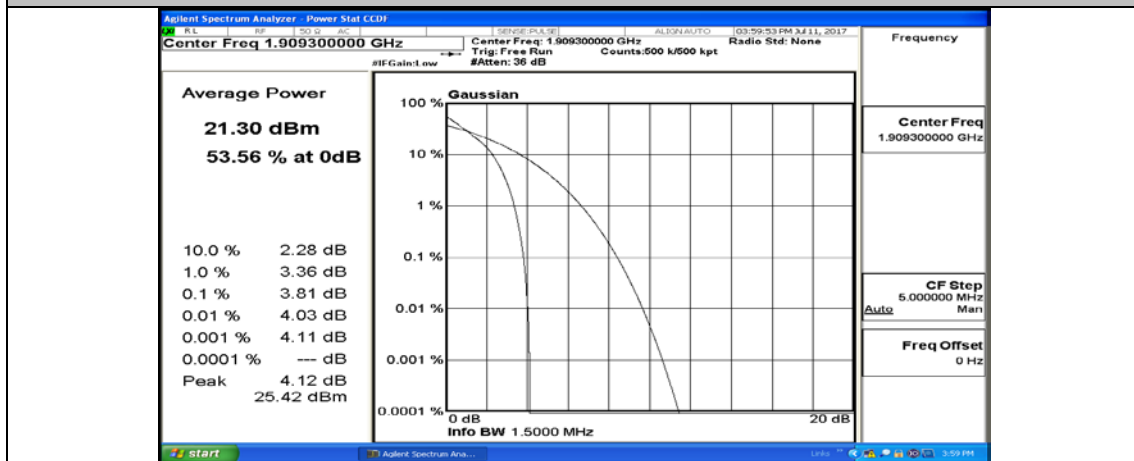
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_3RB#2



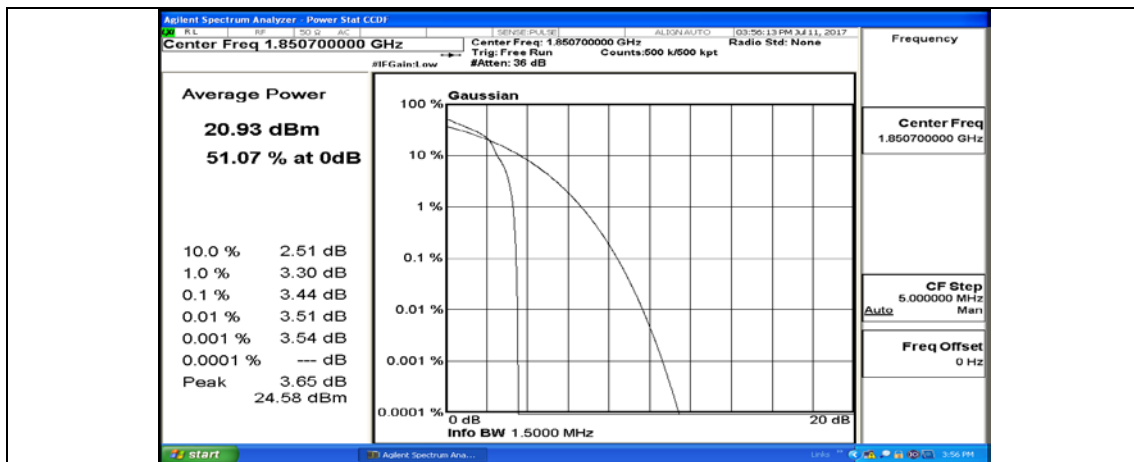
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_3RB#3



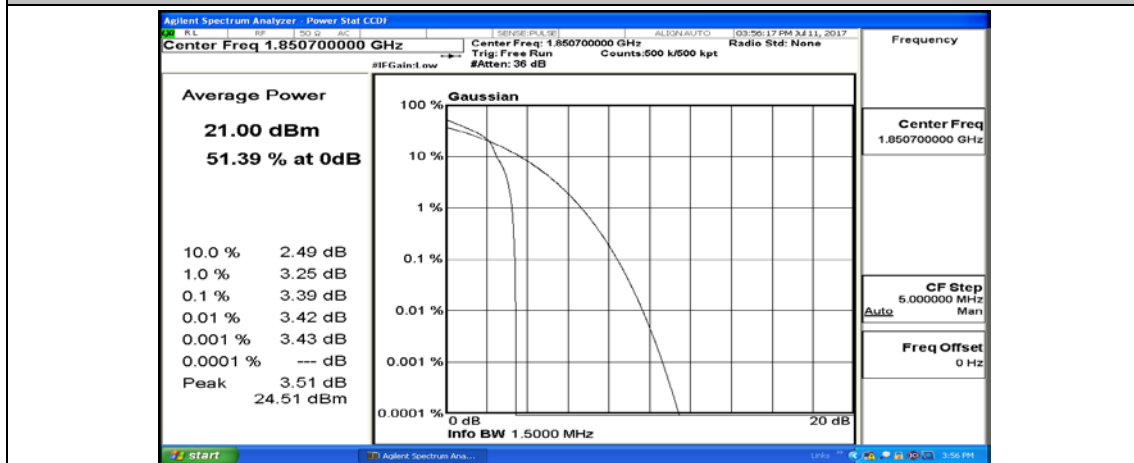
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_6RB#0



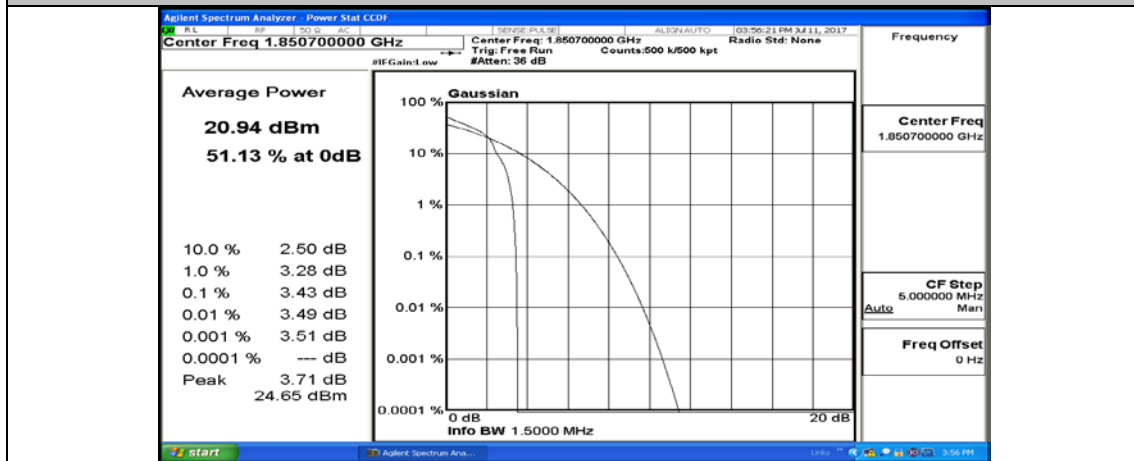
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#0



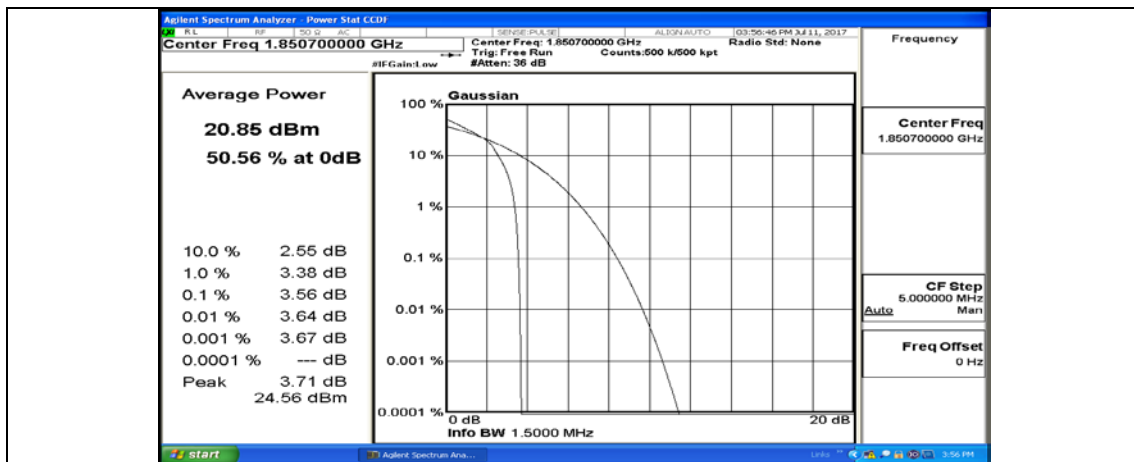
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#3



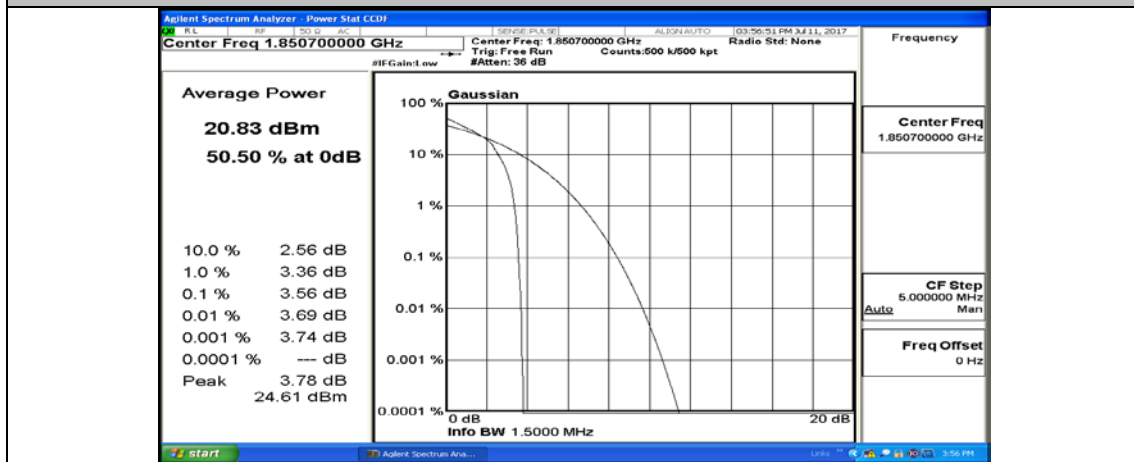
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#5



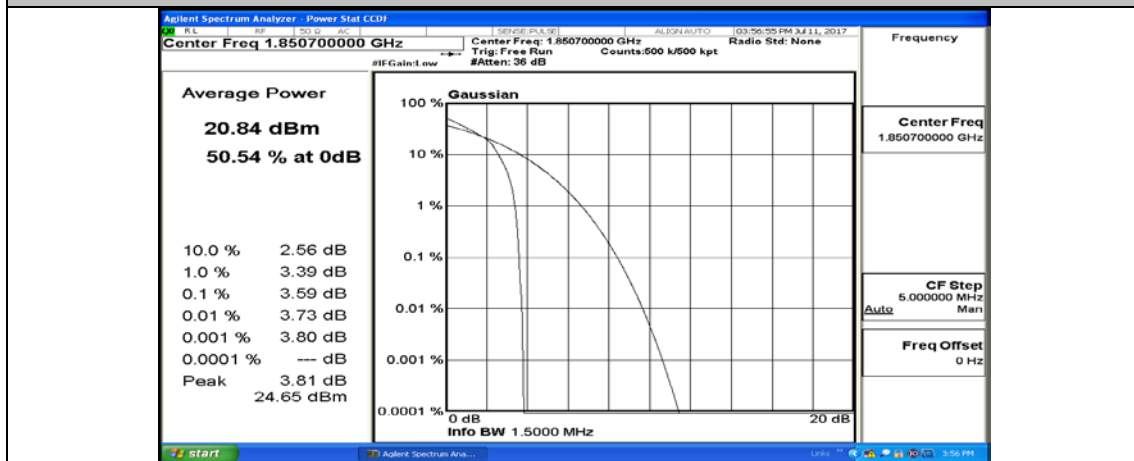
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_3RB#0



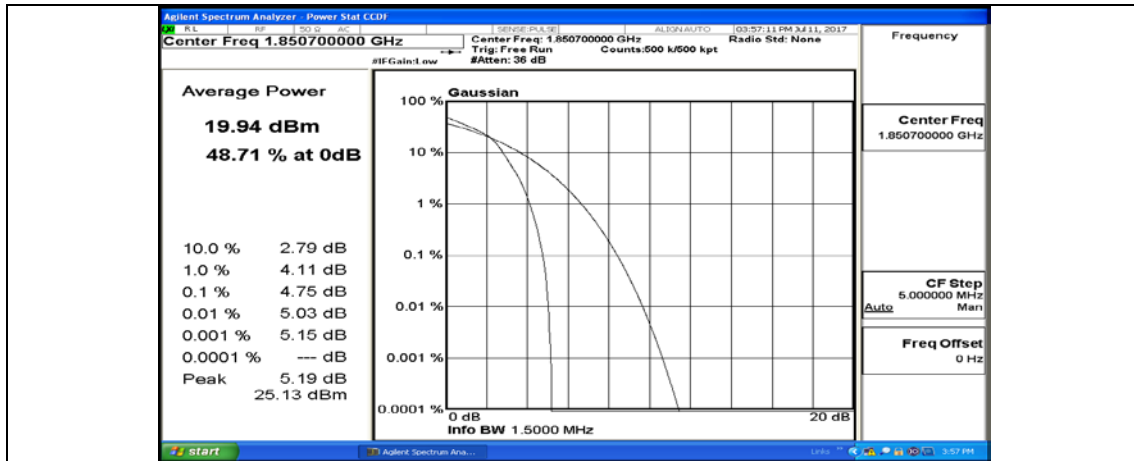
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_3RB#2



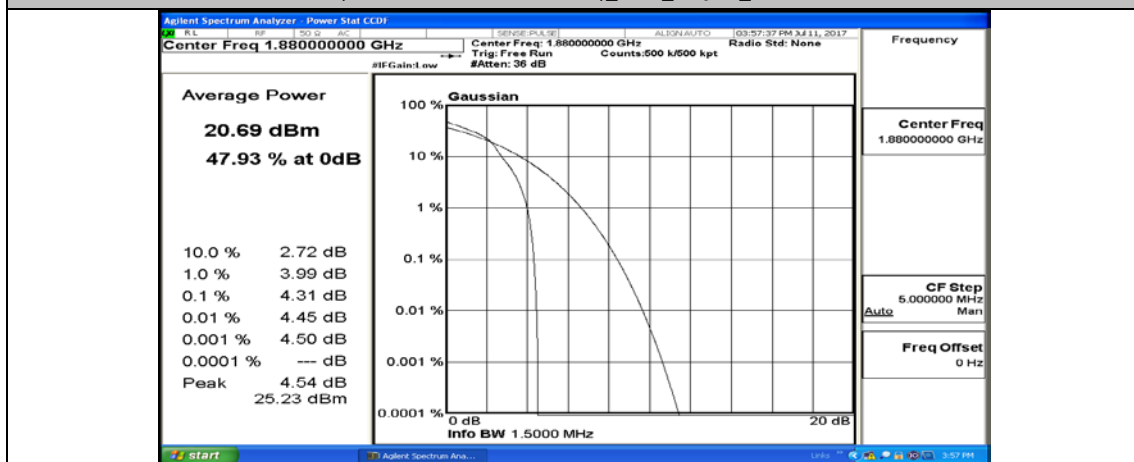
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_3RB#3



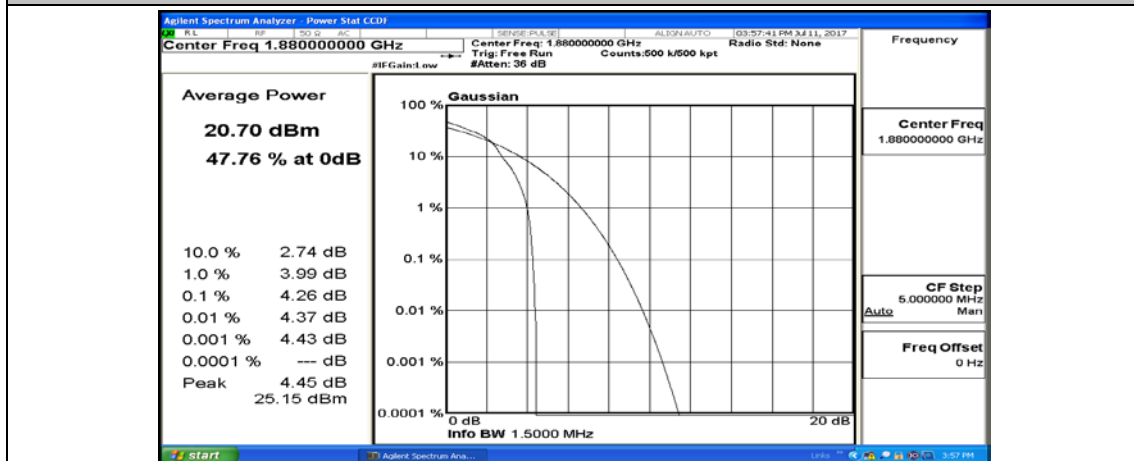
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_6RB#0



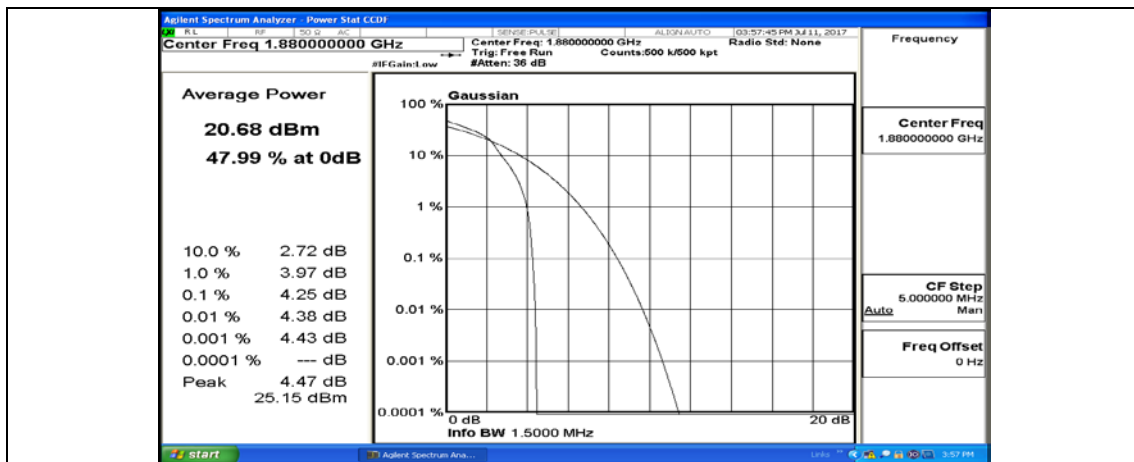
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#0



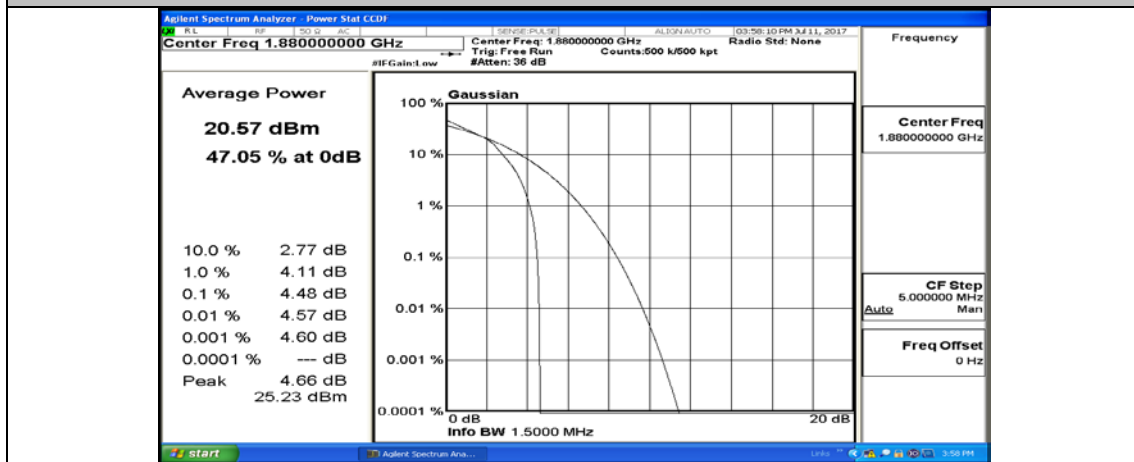
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#3



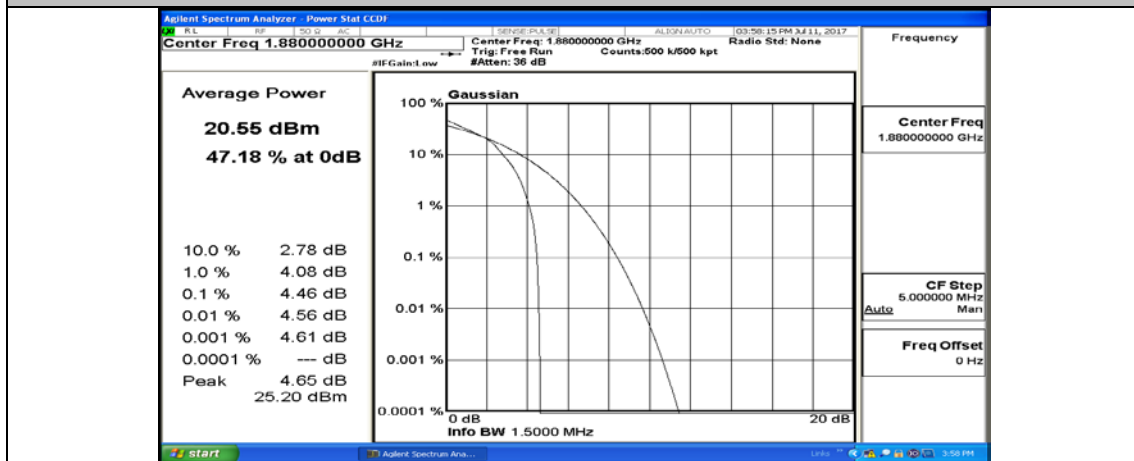
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#5



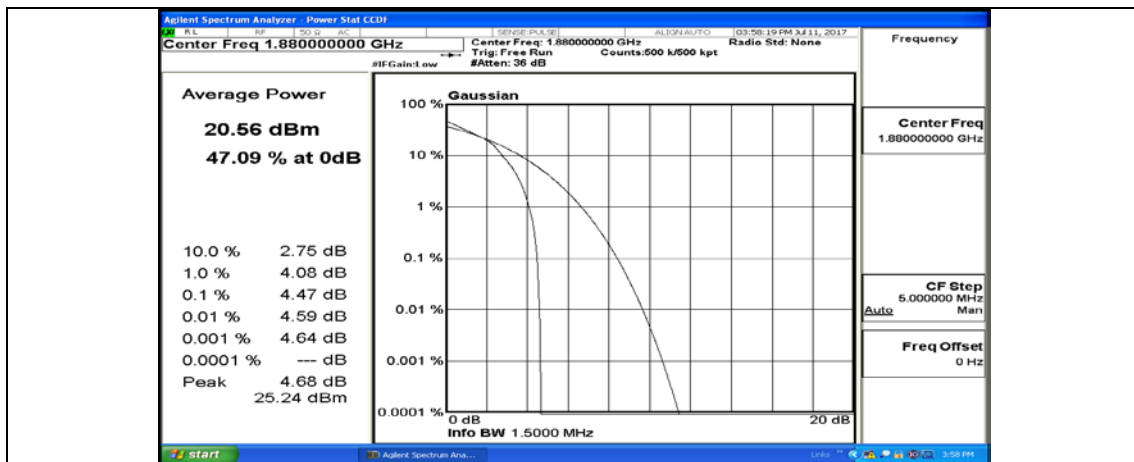
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_3RB#0



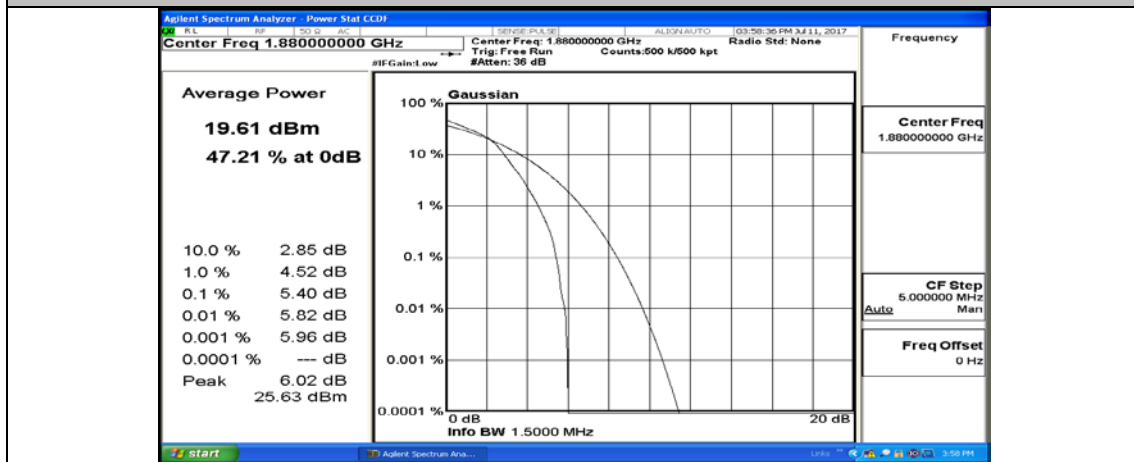
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_3RB#2



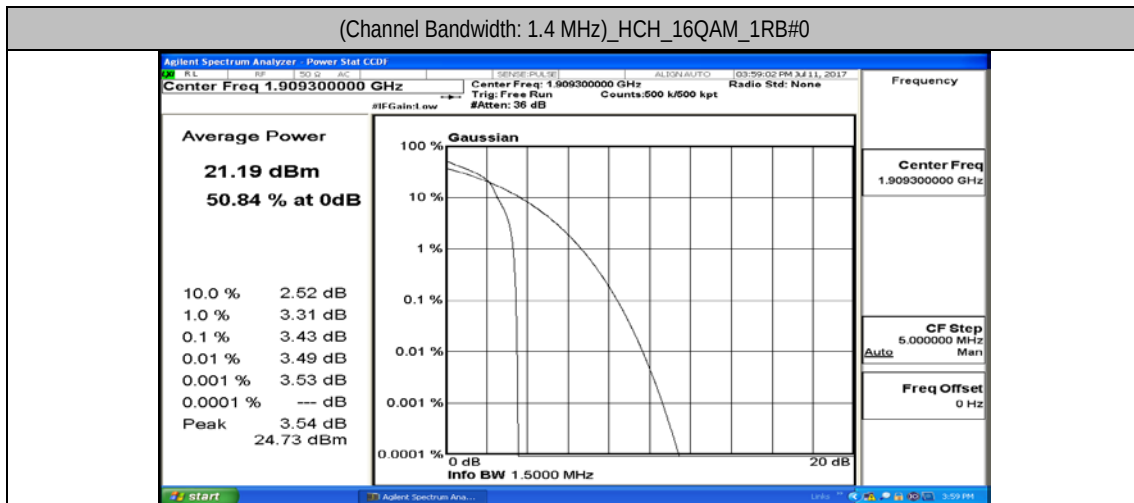
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_3RB#3



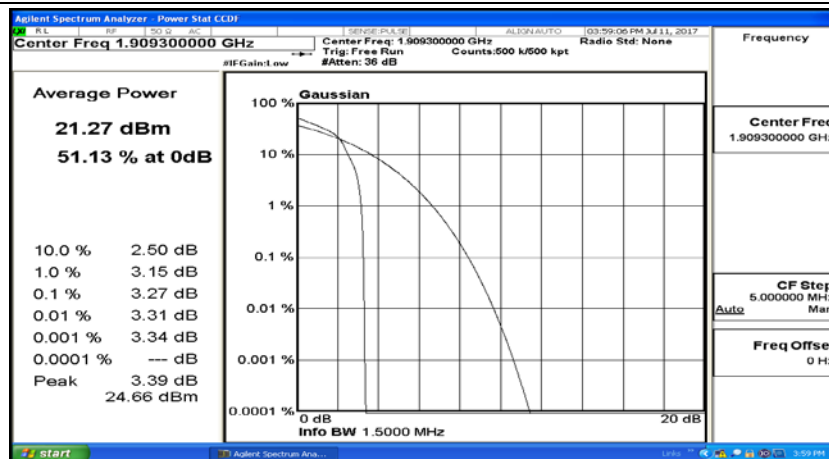
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_6RB#0



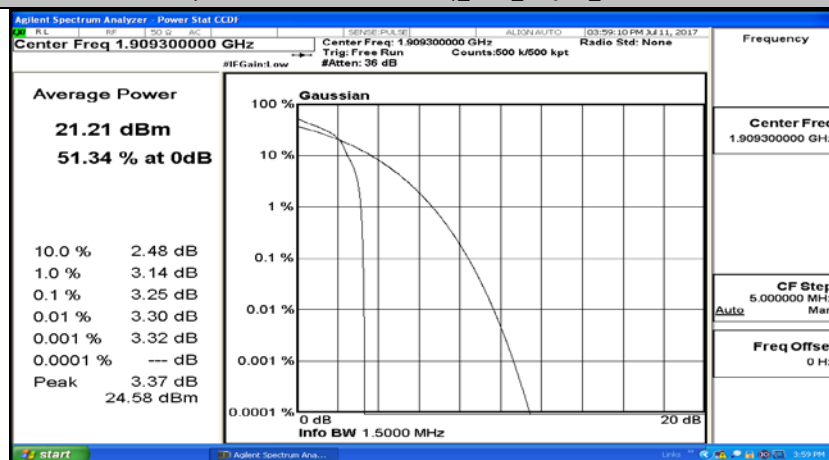
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#0



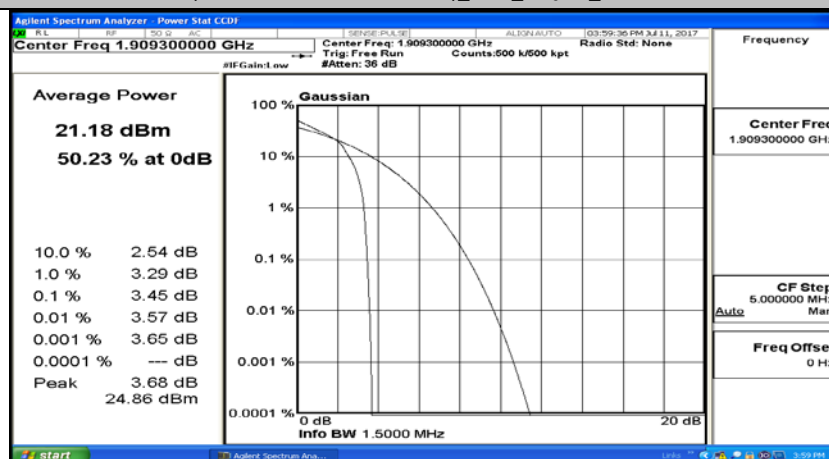
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#3



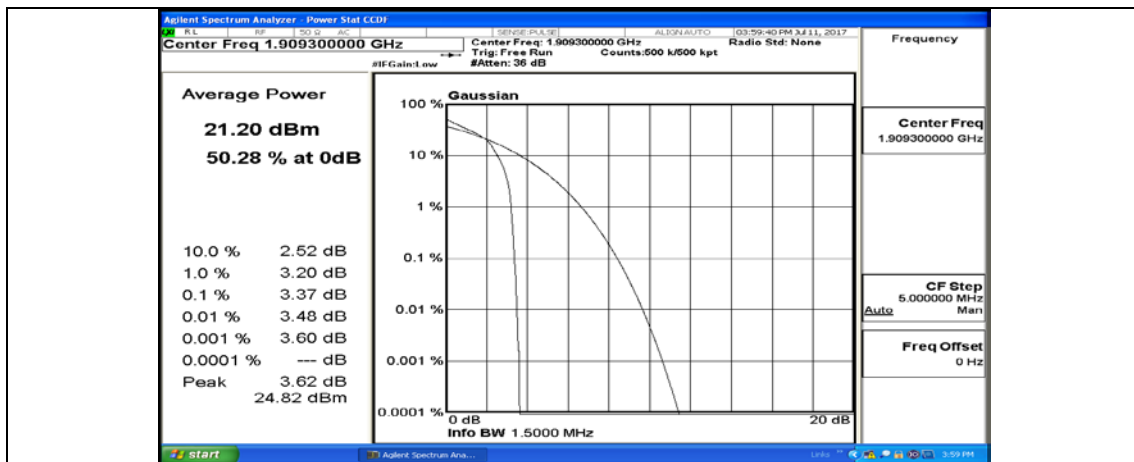
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#5



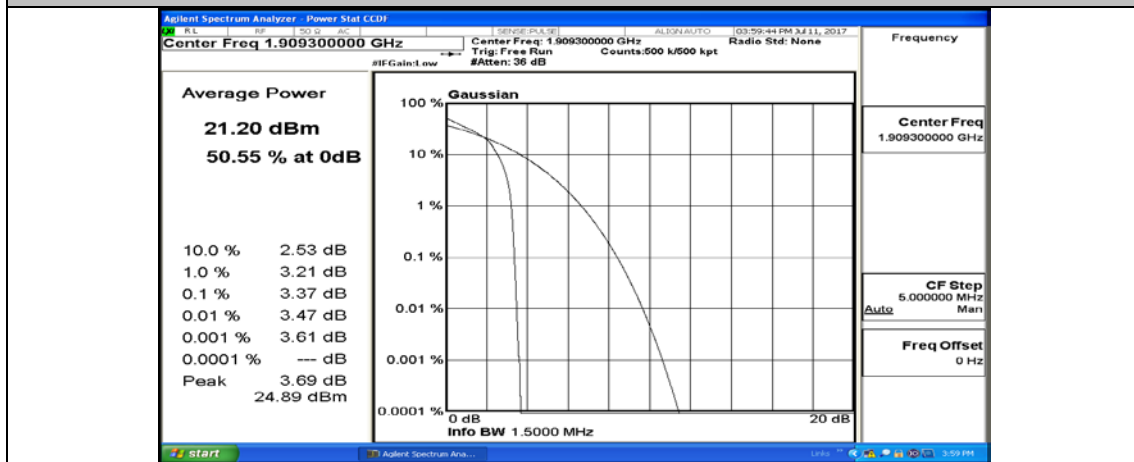
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_3RB#0



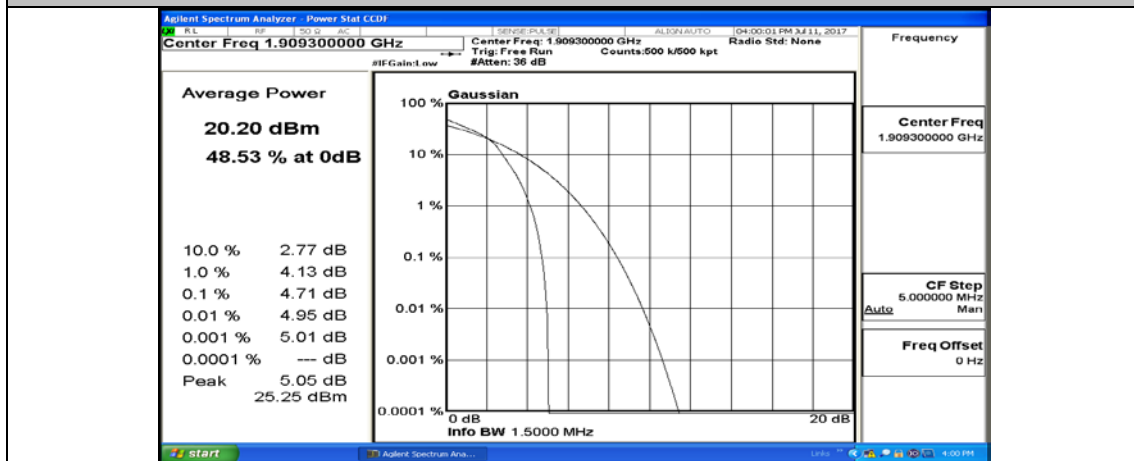
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_3RB#2



(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_3RB#3

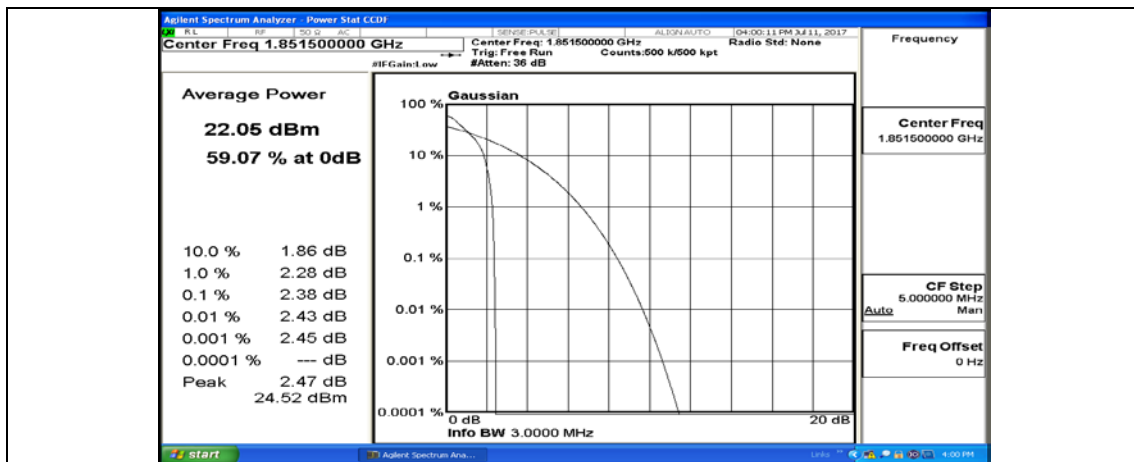


(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_6RB#0

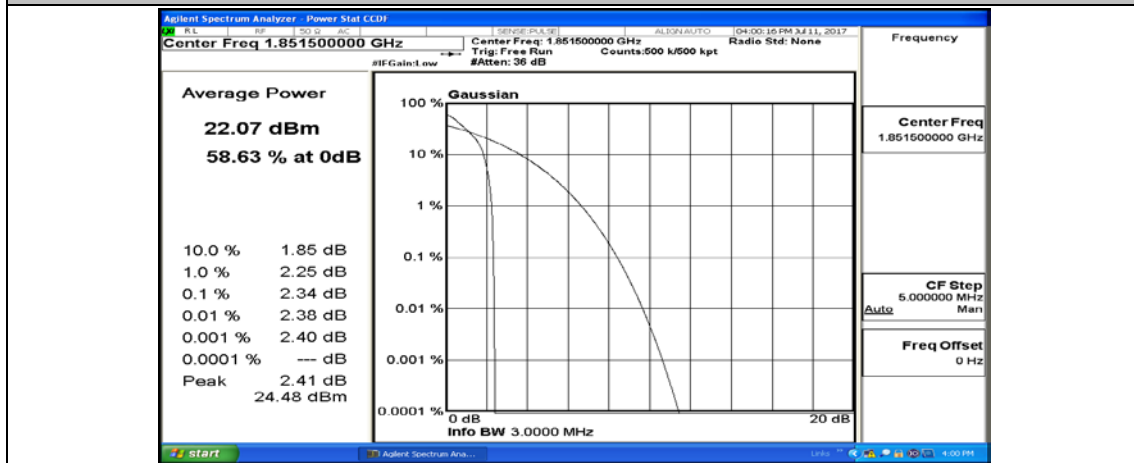


Channel Bandwidth: 3 MHz

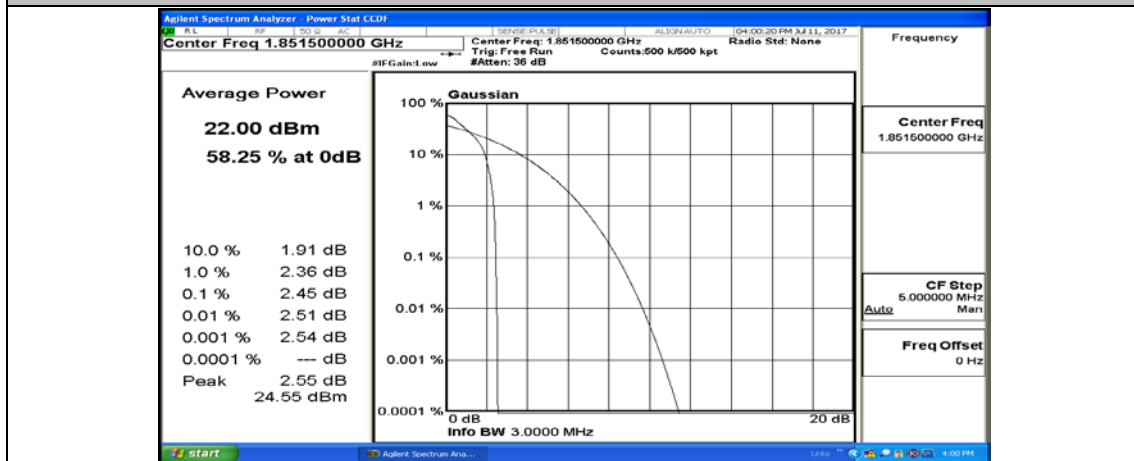
(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#0



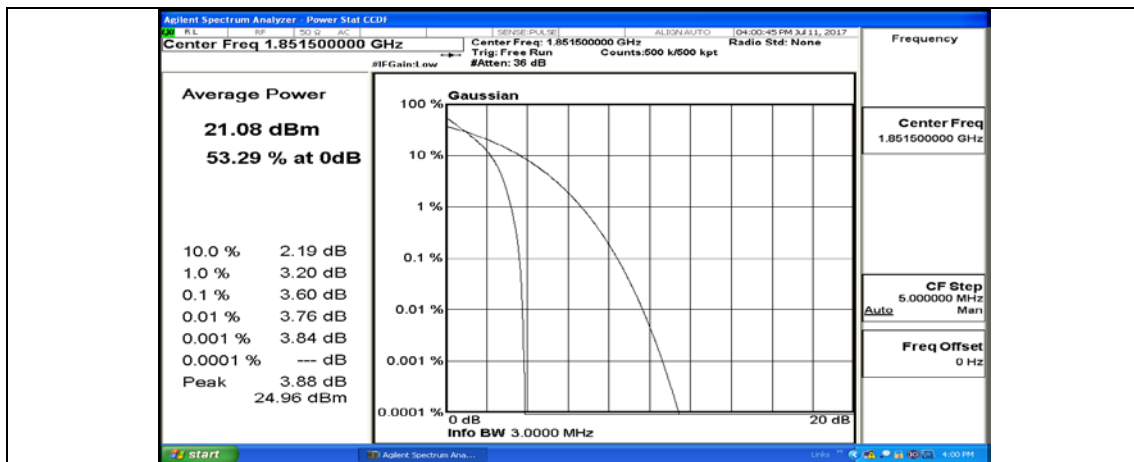
(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#7



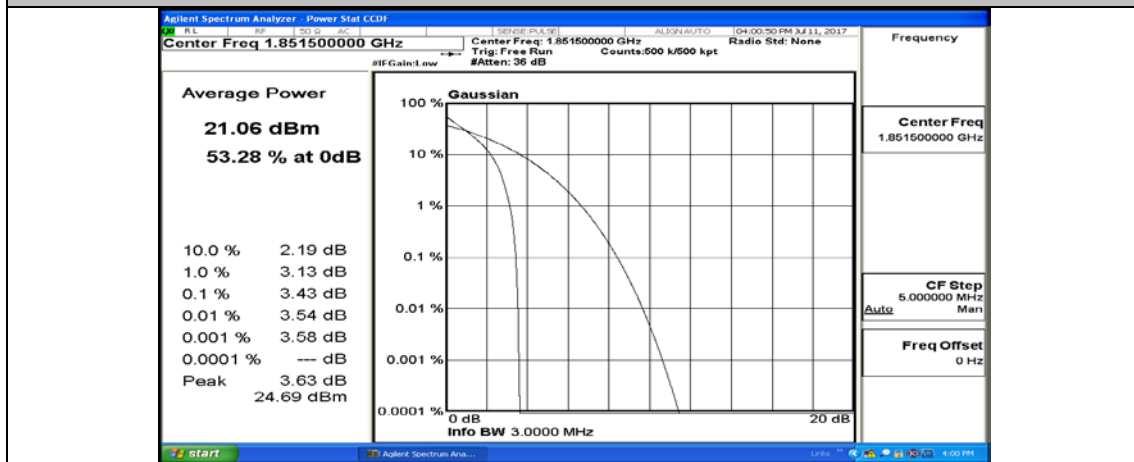
(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#14



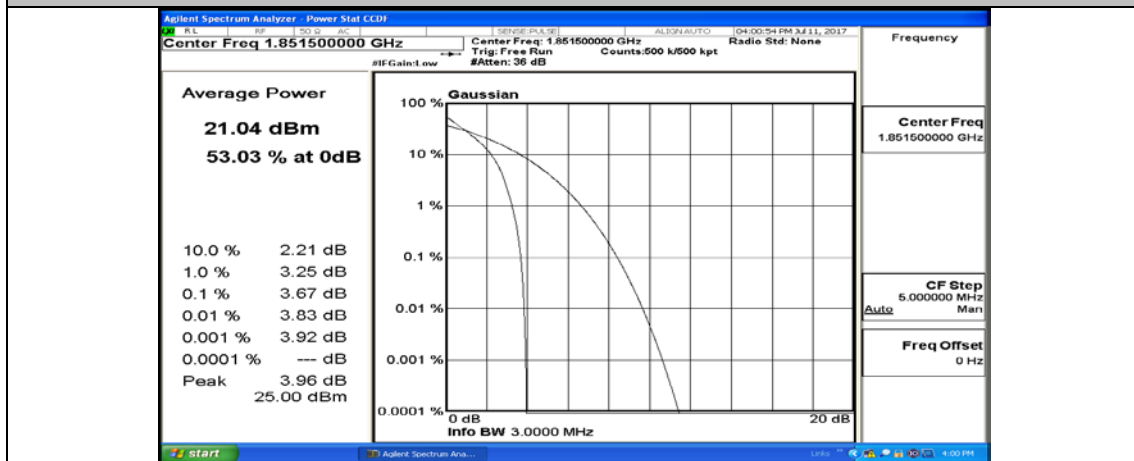
(Channel Bandwidth: 3 MHz)_LCH_QPSK_8RB#0



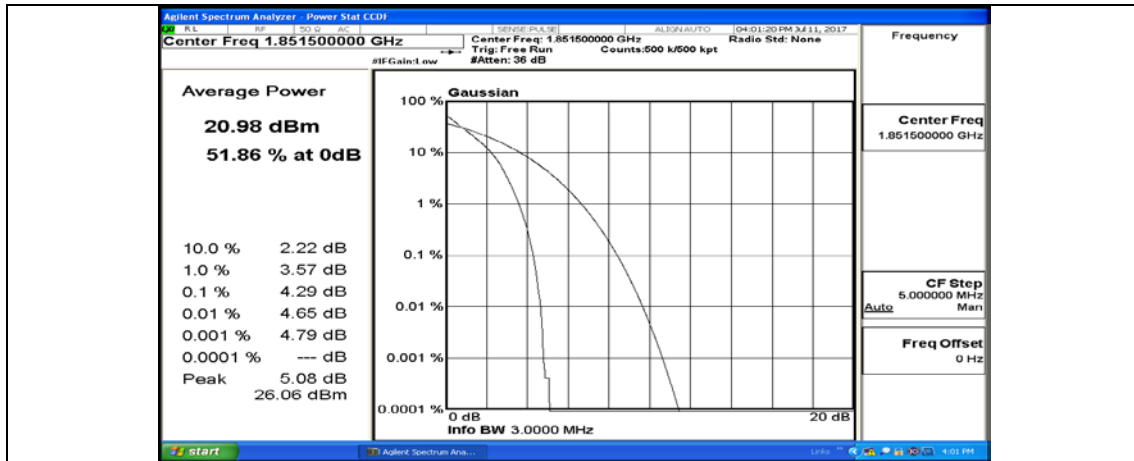
(Channel Bandwidth: 3 MHz)_LCH_QPSK_8RB#4



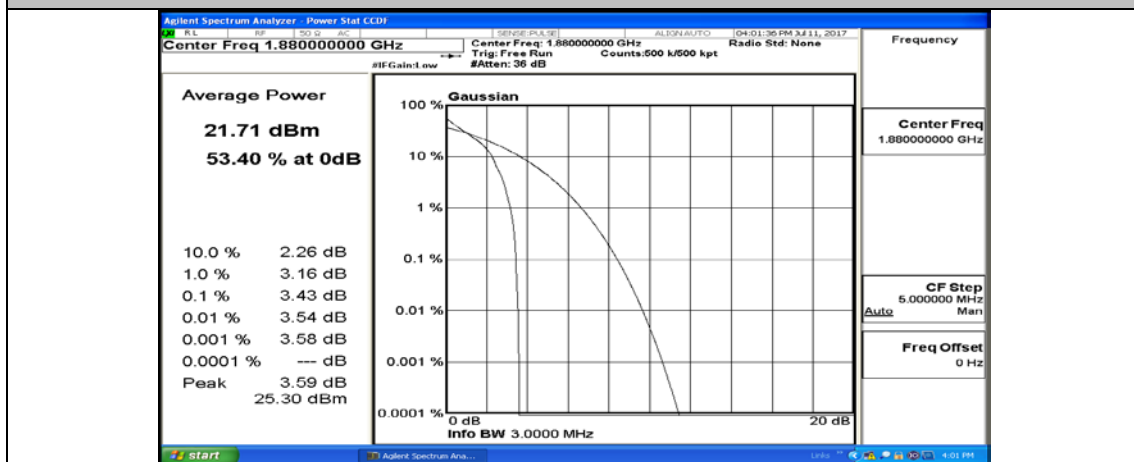
(Channel Bandwidth: 3 MHz)_LCH_QPSK_8RB#7



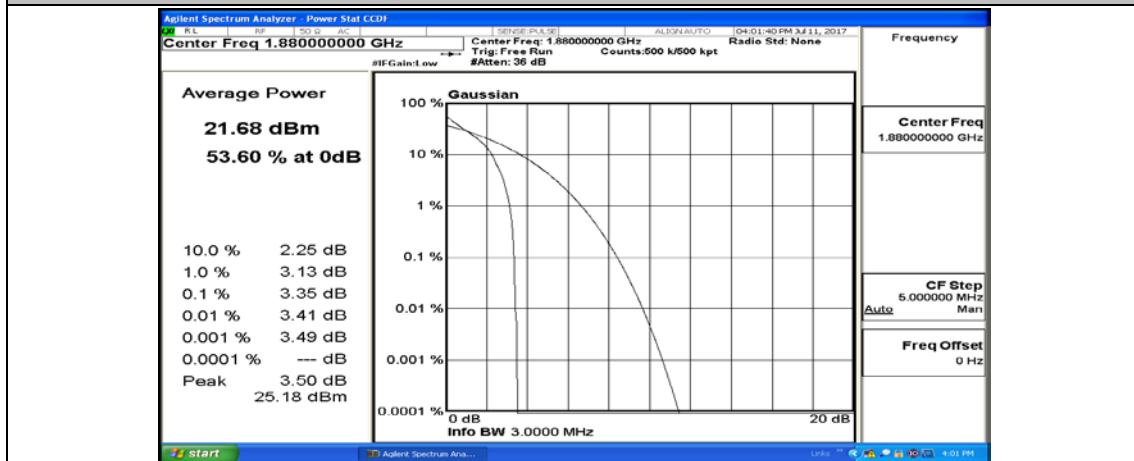
(Channel Bandwidth: 3 MHz)_LCH_QPSK_15RB#0



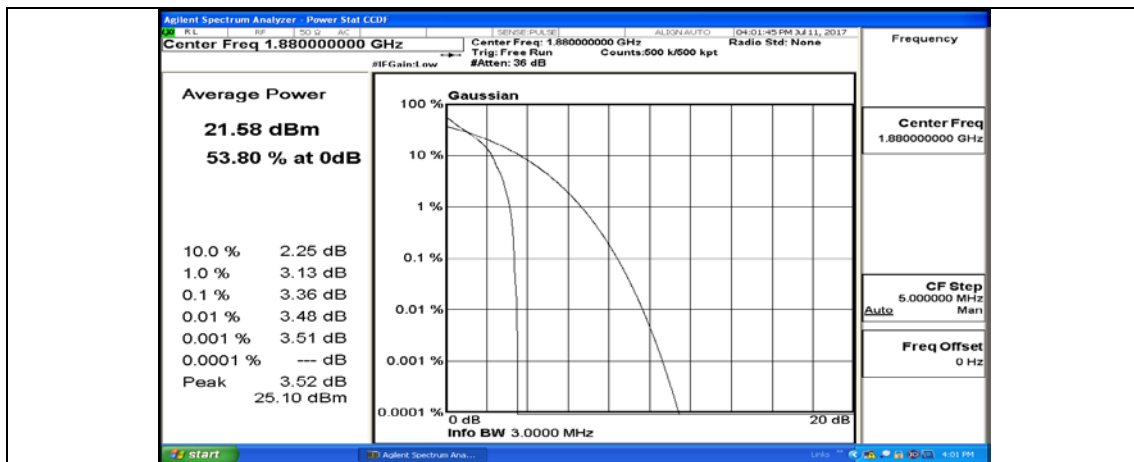
(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#0



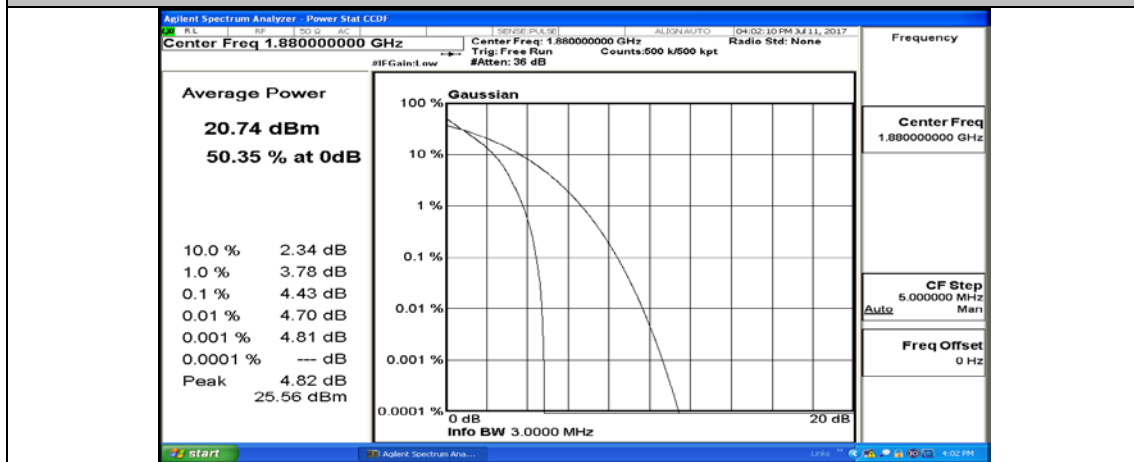
(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#7



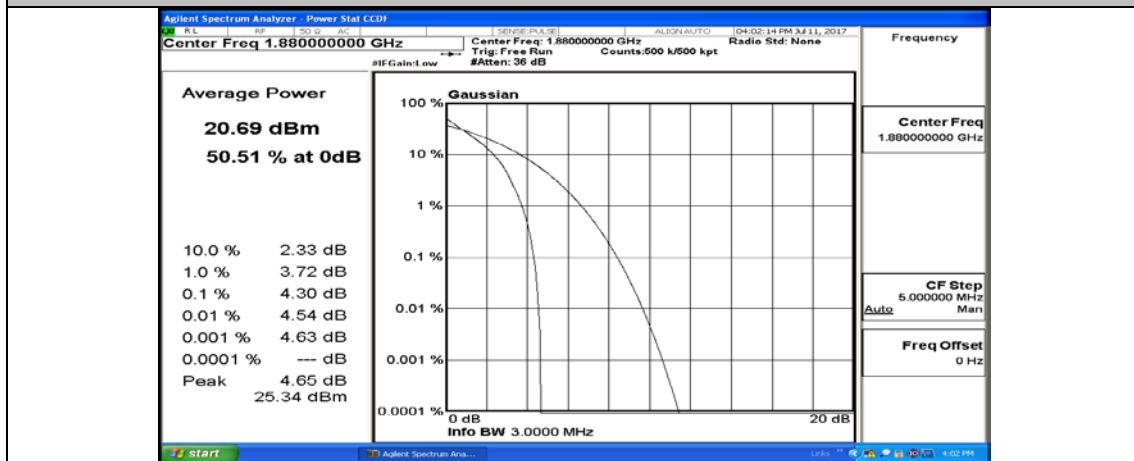
(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#14



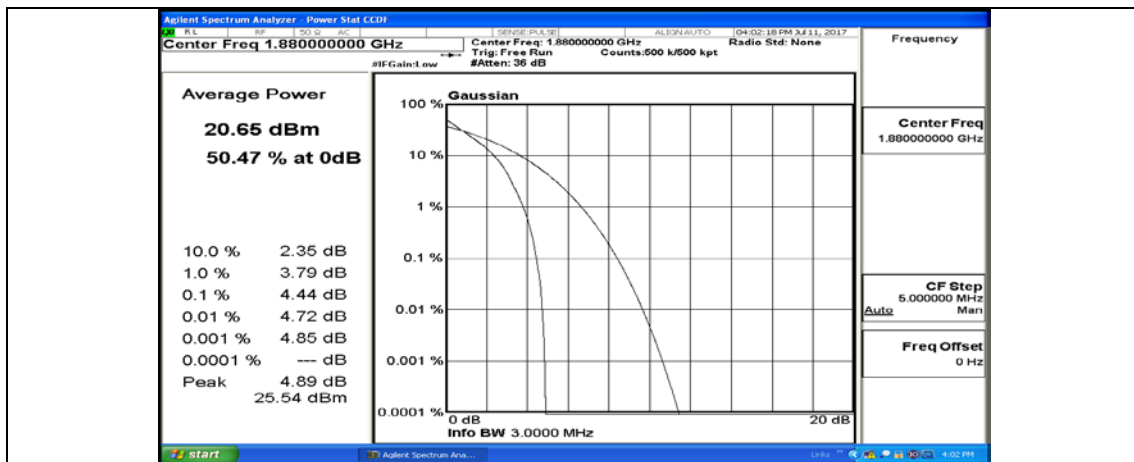
(Channel Bandwidth: 3 MHz)_MCH_QPSK_8RB#0



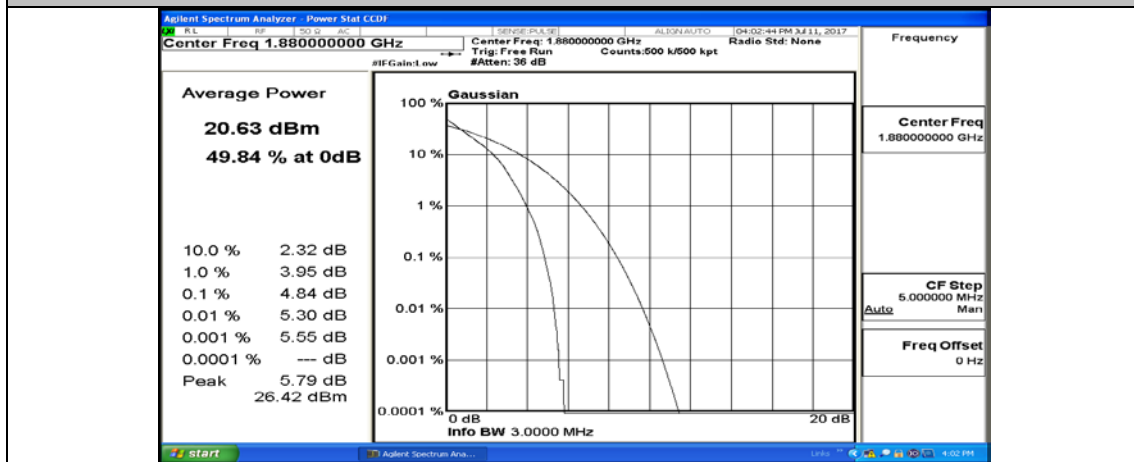
(Channel Bandwidth: 3 MHz)_MCH_QPSK_8RB#4



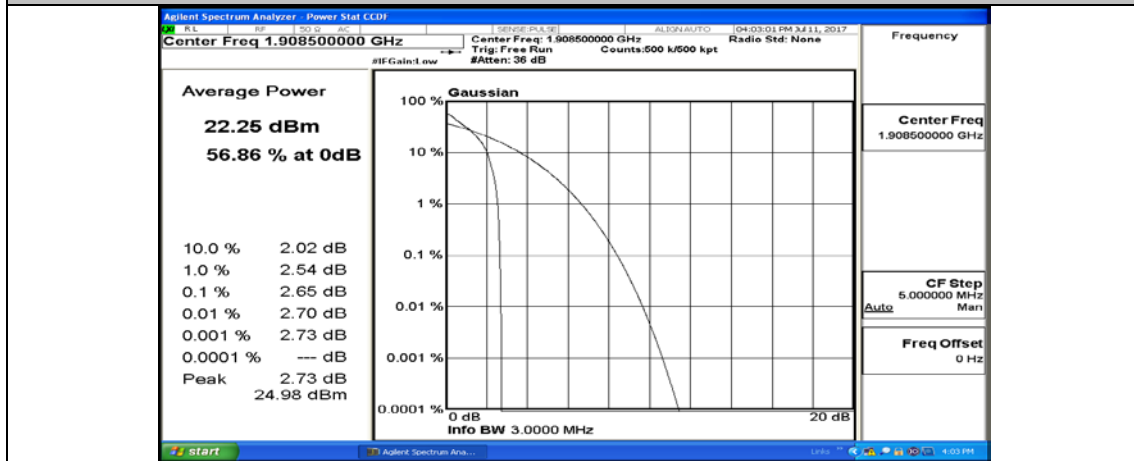
(Channel Bandwidth: 3 MHz)_MCH_QPSK_8RB#7



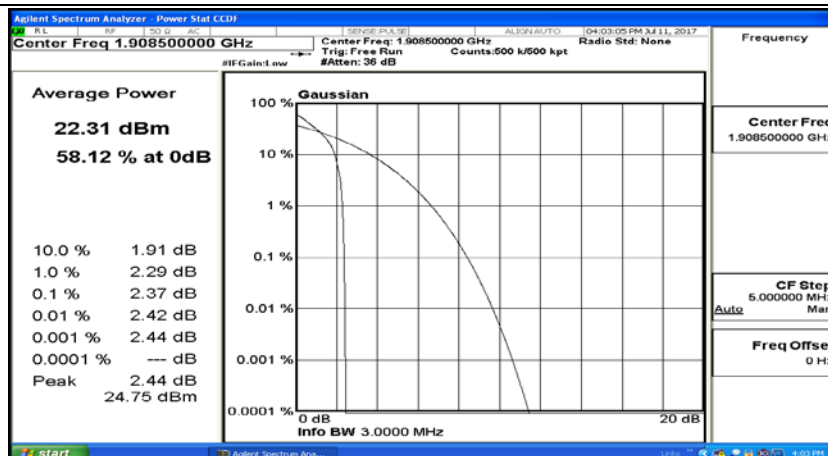
(Channel Bandwidth: 3 MHz)_MCH_QPSK_15RB#0



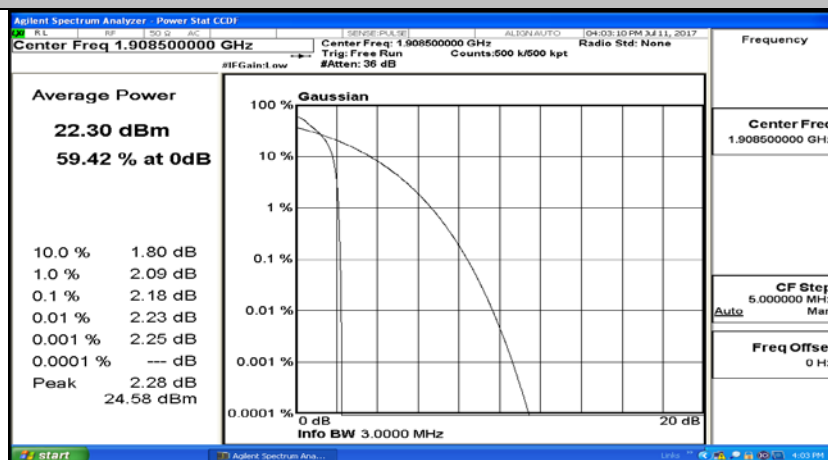
(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#0



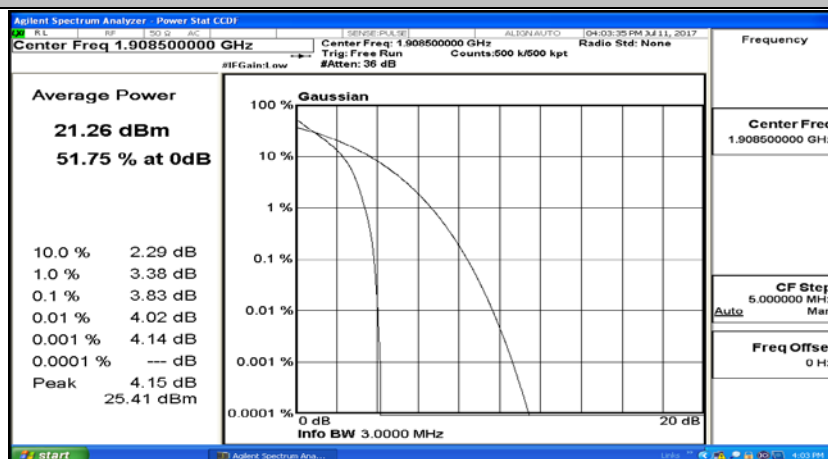
(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#7



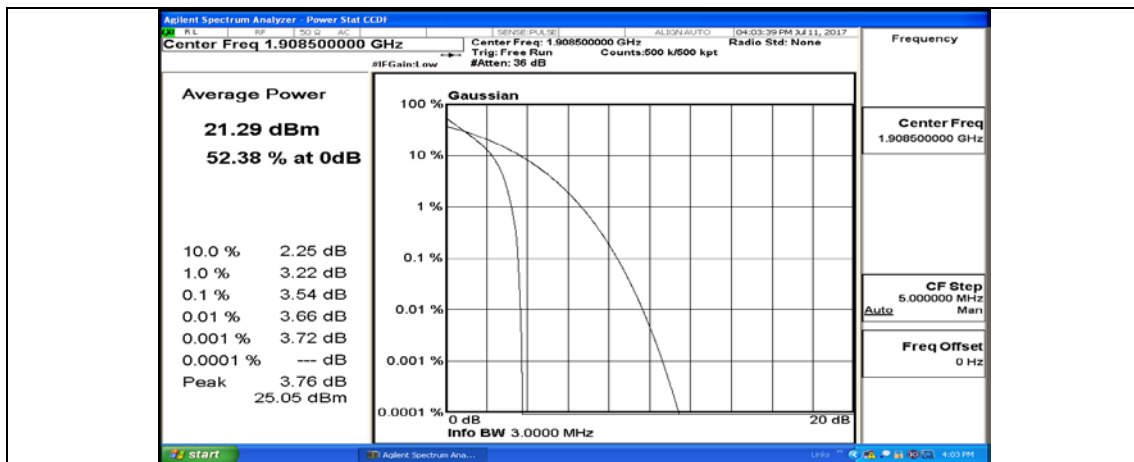
(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#14



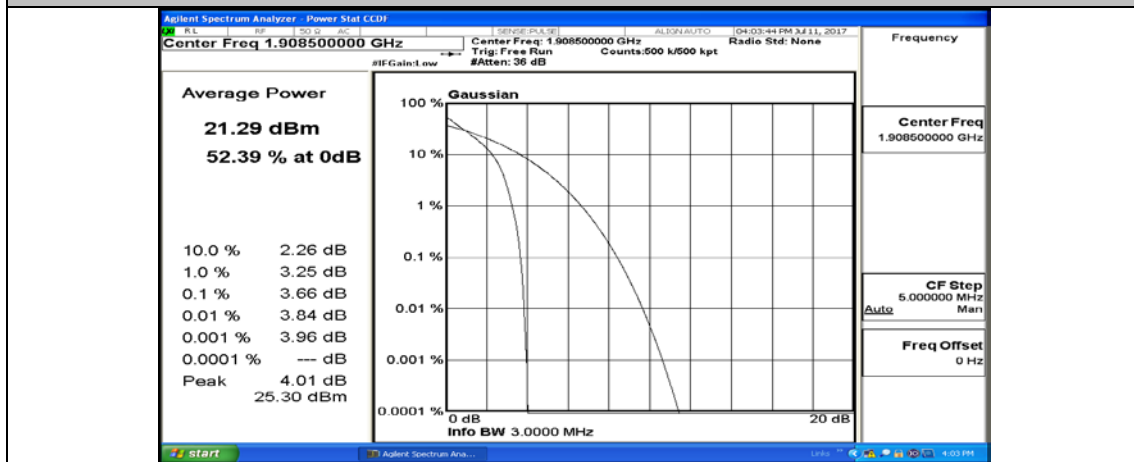
(Channel Bandwidth: 3 MHz)_HCH_QPSK_8RB#0



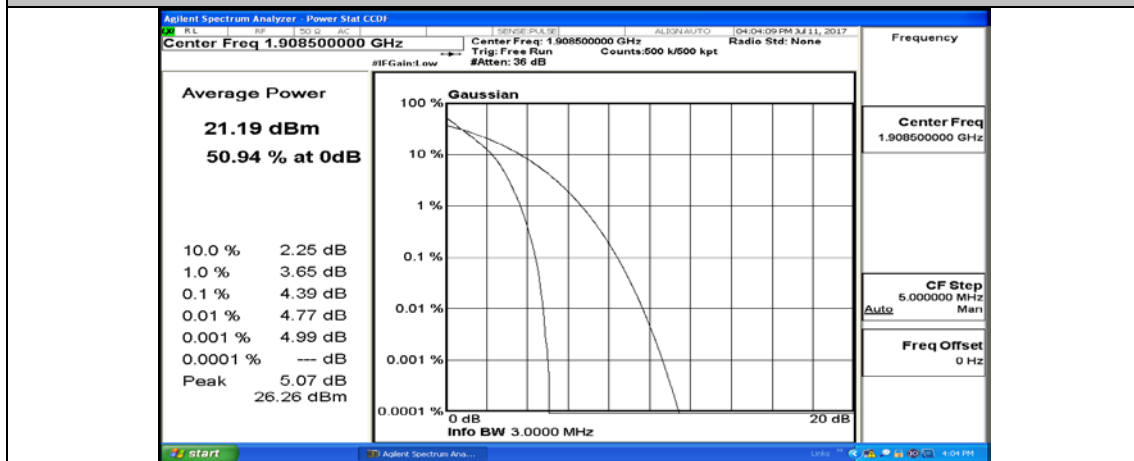
(Channel Bandwidth: 3 MHz)_HCH_QPSK_8RB#4



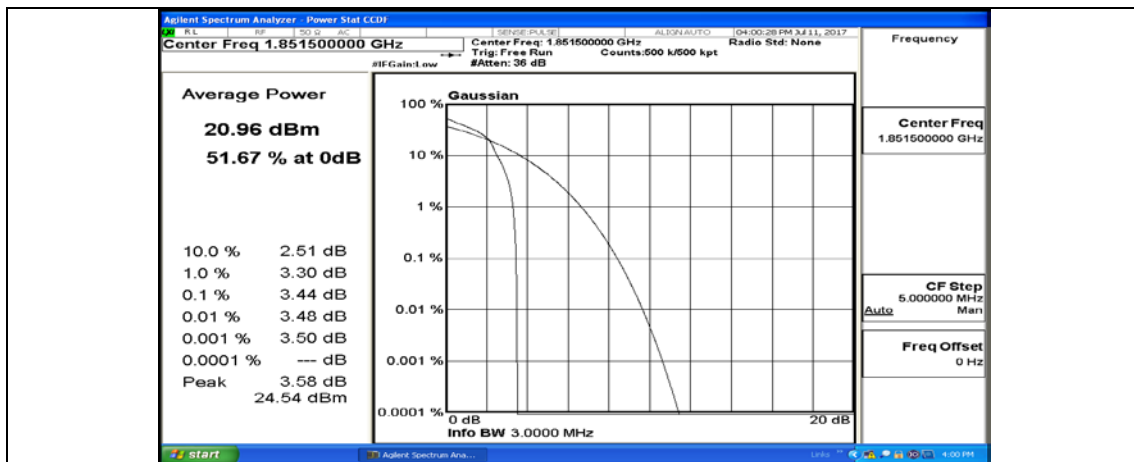
(Channel Bandwidth: 3 MHz)_HCH_QPSK_8RB#7



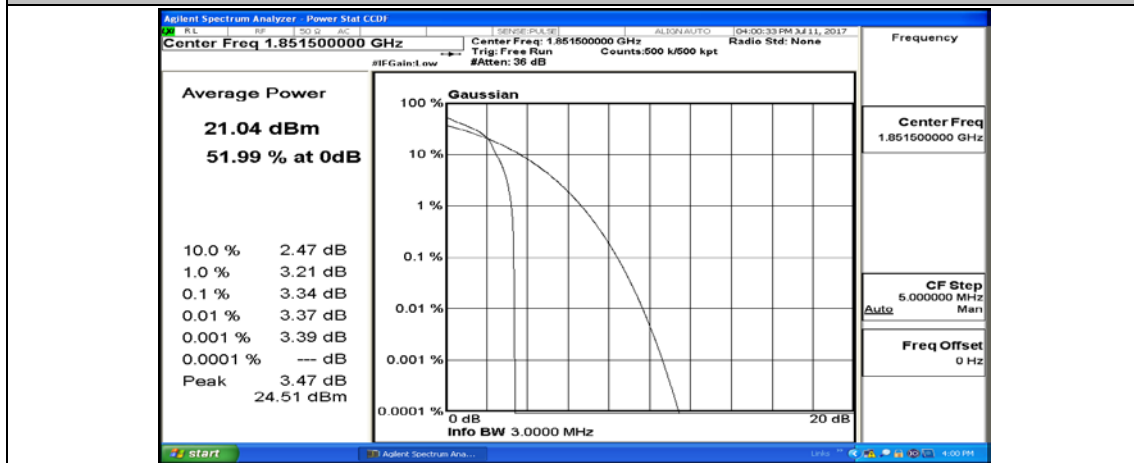
(Channel Bandwidth: 3 MHz)_HCH_QPSK_15RB#0



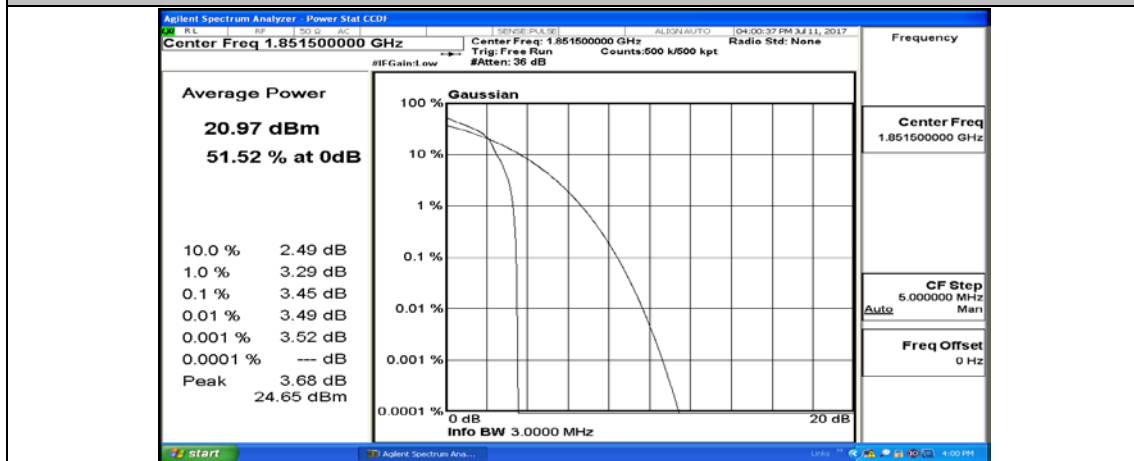
(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#0



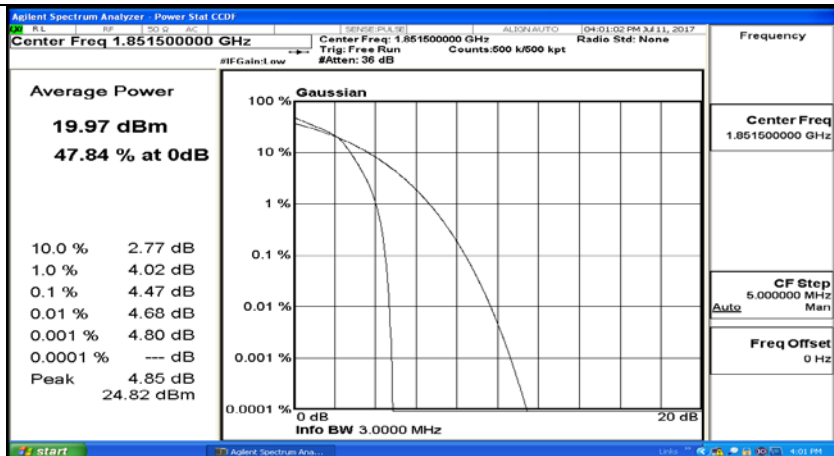
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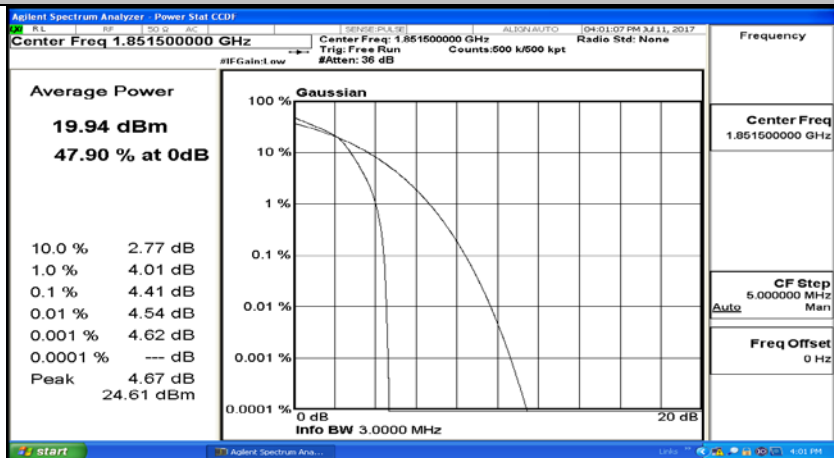
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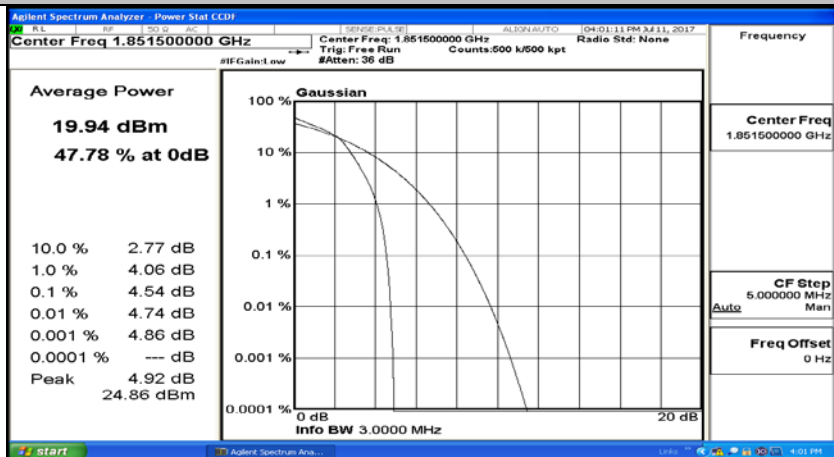
(Channel Bandwidth: 3 MHz)_LCH_16QAM_8RB#0



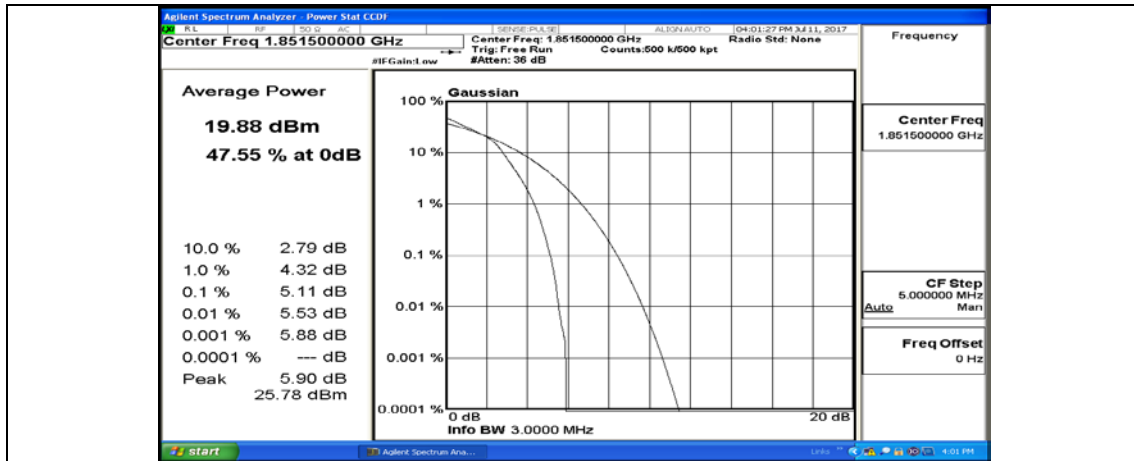
(Channel Bandwidth: 3 MHz)_LCH_16QAM_8RB#4



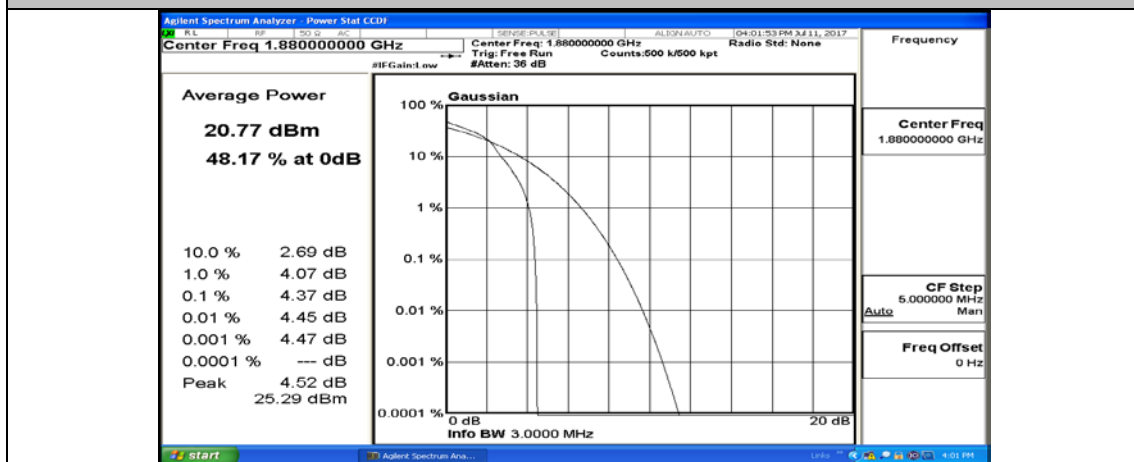
(Channel Bandwidth: 3 MHz)_LCH_16QAM_8RB#7



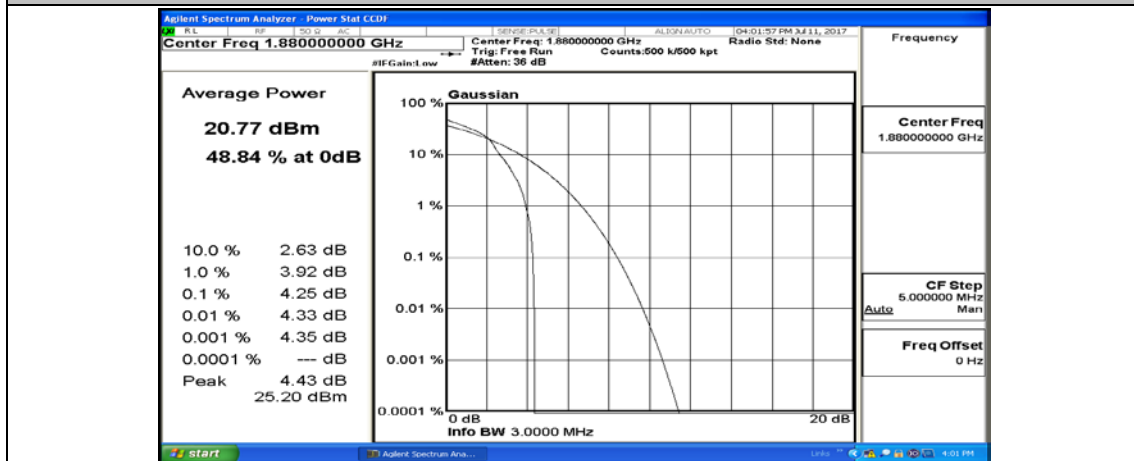
(Channel Bandwidth: 3 MHz)_LCH_16QAM_15RB#0



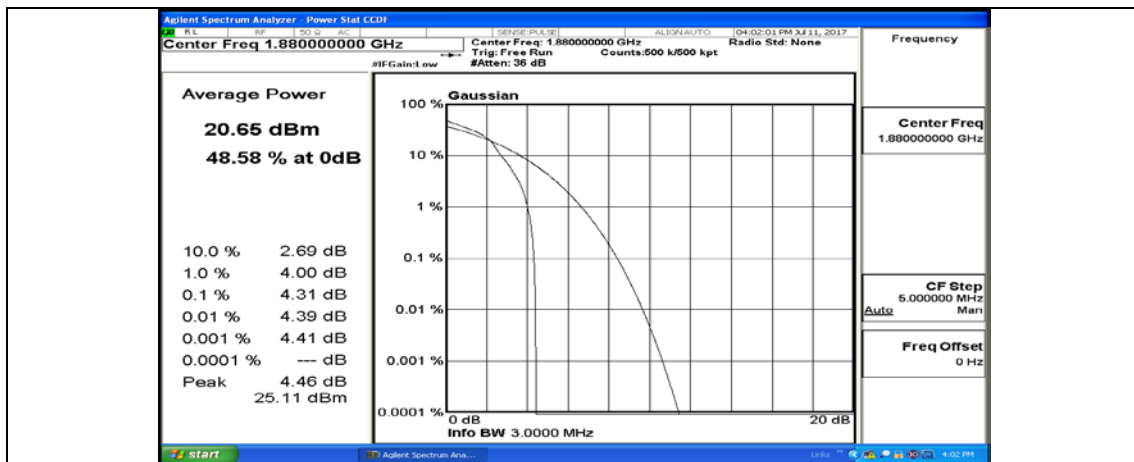
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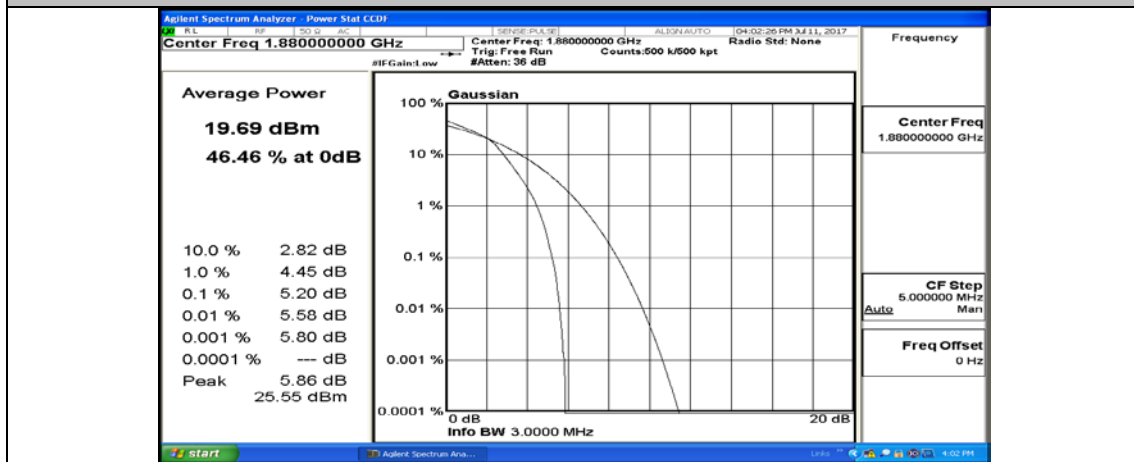
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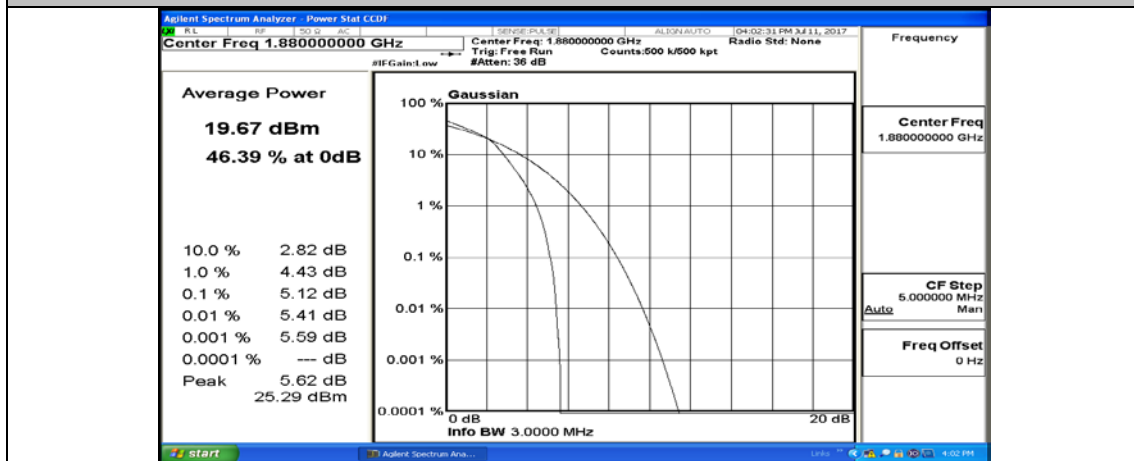
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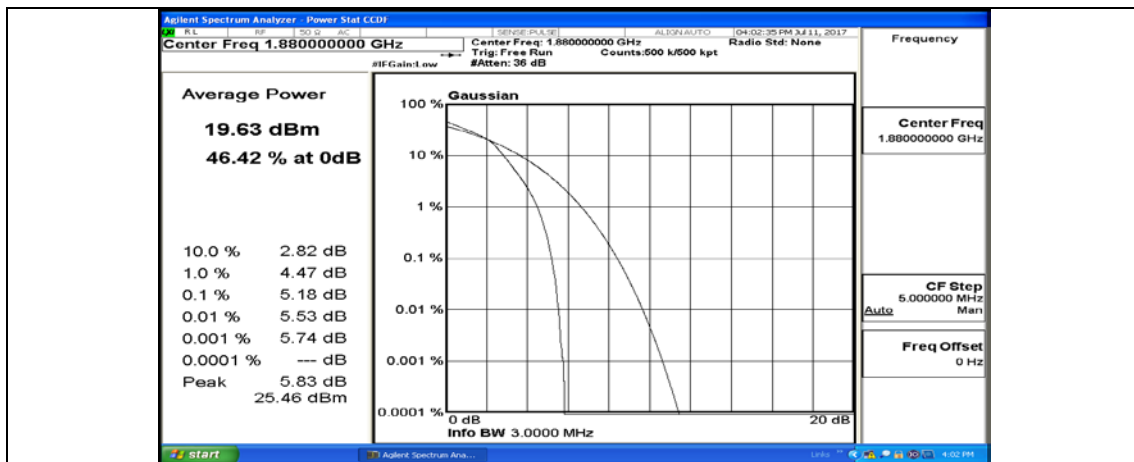
(Channel Bandwidth: 3 MHz)_MCH_16QAM_8RB#0



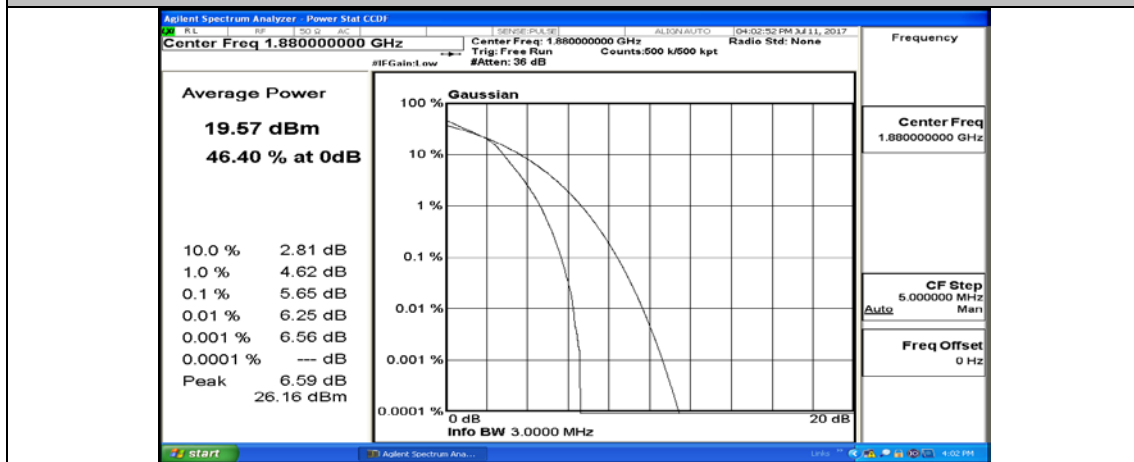
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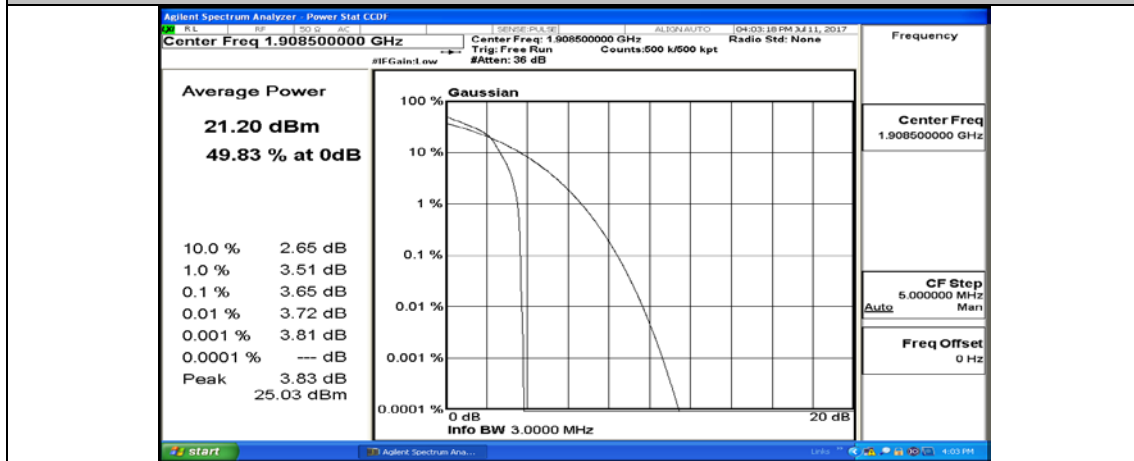
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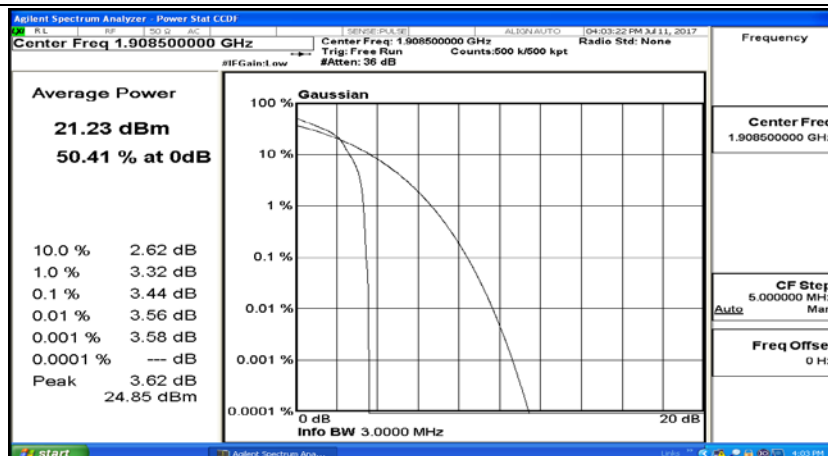
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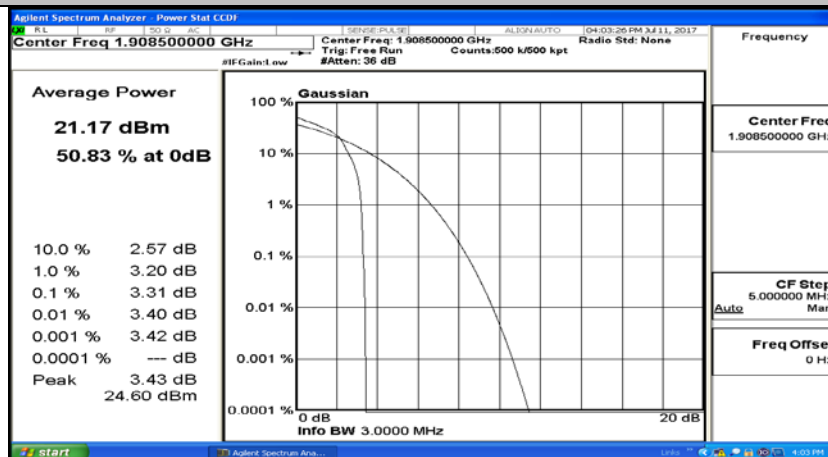
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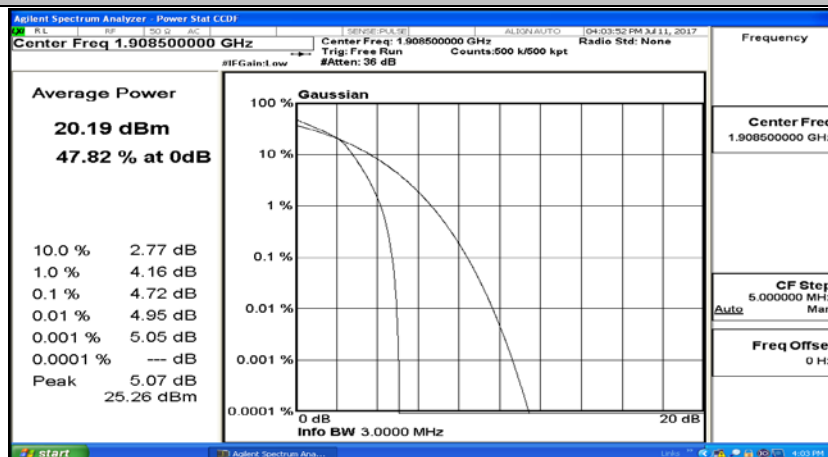
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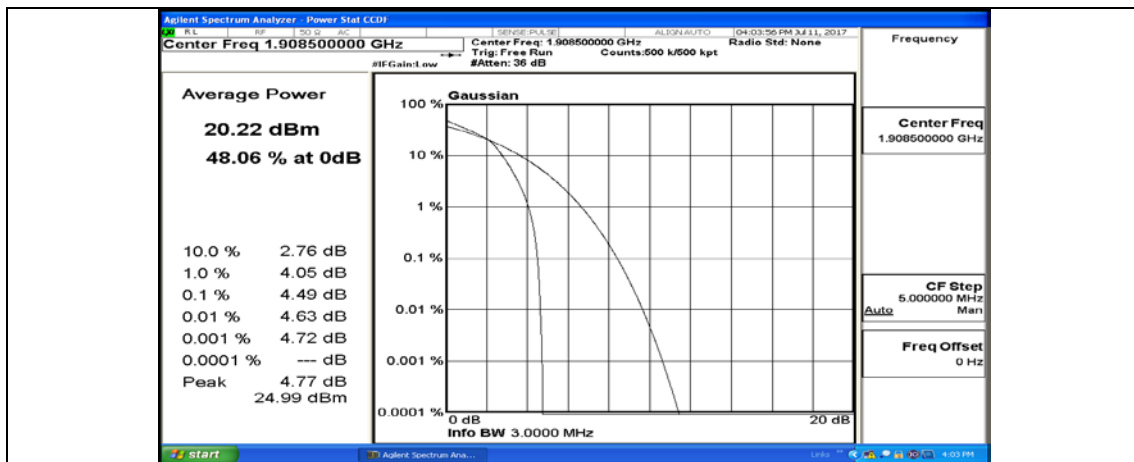
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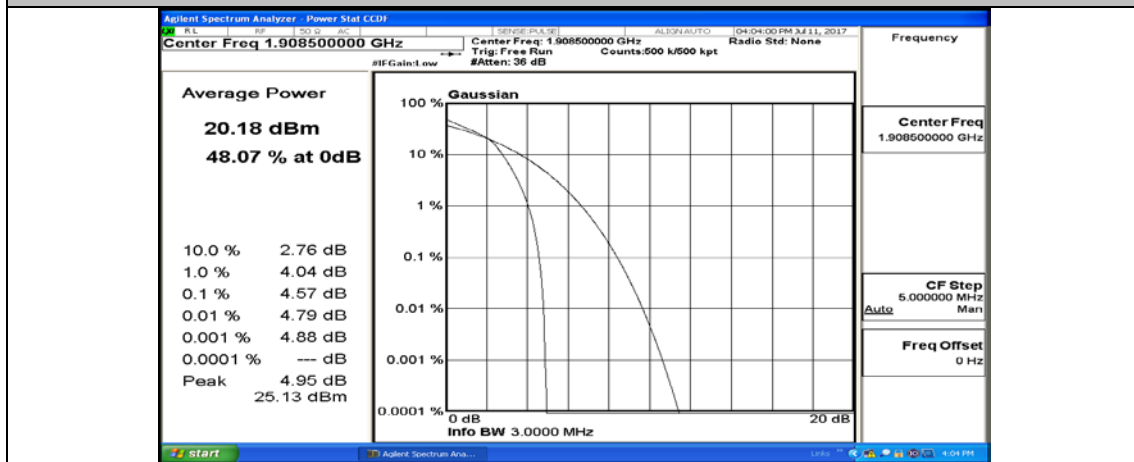
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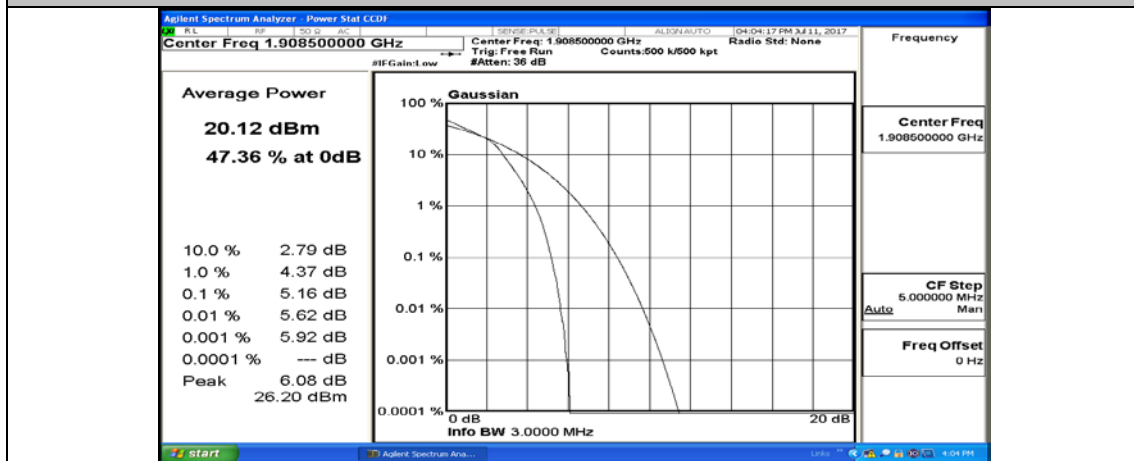
(Channel Bandwidth: 3 MHz)_HCH_16QAM_8RB#4



(Channel Bandwidth: 3 MHz)_HCH_16QAM_8RB#7



(Channel Bandwidth: 3 MHz)_HCH_16QAM_15RB#0



Channel Bandwidth: 5 MHz

(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#0