

Appendix for Band 4

Appendix A: Average Power Output Data

Test Result

Channel Bandwidth: 1.4 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	24.18	PASS
		1	3	24.05	PASS
		1	5	24.07	PASS
		3	0	23.96	PASS
		3	2	23.92	PASS
		3	3	23.91	PASS
		6	0	22.91	PASS
	MCH	1	0	23.13	PASS
		1	3	23.09	PASS
		1	5	23.13	PASS
		3	0	23.10	PASS
		3	2	23.05	PASS
		3	3	23.02	PASS
		6	0	22.01	PASS
16QAM	LCH	1	0	22.62	PASS
		1	3	22.55	PASS
		1	5	22.61	PASS
		3	0	22.71	PASS
		3	2	22.71	PASS
		3	3	22.72	PASS
		6	0	21.54	PASS
	MCH	1	0	23.12	PASS
		1	3	23.10	PASS
		1	5	23.13	PASS
		3	0	23.02	PASS
		3	2	22.93	PASS
		3	3	22.94	PASS
		6	0	21.80	PASS

		3	2	22.02	PASS
		3	3	21.99	PASS
		6	0	20.88	PASS
HCH		1	0	21.92	PASS
		1	3	21.89	PASS
		1	5	21.92	PASS
		3	0	21.52	PASS
		3	2	21.54	PASS
		3	3	21.57	PASS
		6	0	21.58	PASS

Channel Bandwidth: 3 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	23.86	PASS
		1	7	23.77	PASS
		1	14	23.71	PASS
		8	0	22.82	PASS
		8	4	22.73	PASS
		8	7	22.68	PASS
		15	0	22.77	PASS
	MCH	1	0	23.02	PASS
		1	7	22.84	PASS
		1	14	22.85	PASS
		8	0	21.96	PASS
		8	4	21.92	PASS
		8	7	21.92	PASS
		15	0	21.99	PASS
	HCH	1	0	22.70	PASS
		1	7	22.55	PASS
		1	14	22.59	PASS
		8	0	21.68	PASS
		8	4	21.58	PASS
		8	7	21.63	PASS
		15	0	21.54	PASS
16QAM	LCH	1	0	23.08	PASS
		1	7	23.07	PASS
		1	14	22.96	PASS
		8	0	21.87	PASS
		8	4	21.82	PASS
		8	7	21.78	PASS
		15	0	21.74	PASS

	MCH	1	0	22.23	PASS
		1	7	22.16	PASS
		1	14	22.08	PASS
		8	0	21.00	PASS
		8	4	21.02	PASS
		8	7	21.03	PASS
		15	0	20.94	PASS
	HCH	1	0	22.06	PASS
		1	7	21.95	PASS
		1	14	21.94	PASS
		8	0	21.51	PASS
		8	4	21.45	PASS
		8	7	21.48	PASS
		15	0	21.51	PASS

Channel Bandwidth: 5 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	23.95	PASS
		1	12	23.76	PASS
		1	24	23.65	PASS
		12	0	22.78	PASS
		12	6	22.71	PASS
		12	13	22.67	PASS
		25	0	22.75	PASS
	MCH	1	0	23.21	PASS
		1	12	23.04	PASS
		1	24	22.96	PASS
		12	0	22.07	PASS
		12	6	22.03	PASS
		12	13	21.98	PASS
		25	0	22.01	PASS
	HCH	1	0	22.69	PASS
		1	12	22.66	PASS
		1	24	22.53	PASS
		12	0	21.67	PASS
		12	6	21.67	PASS
		12	13	21.68	PASS
		25	0	21.60	PASS
16QAM	LCH	1	0	23.24	PASS
		1	12	23.14	PASS
		1	24	23.04	PASS

		12	0	21.92	PASS
		12	6	21.81	PASS
		12	13	21.74	PASS
		25	0	21.68	PASS
MCH	MCH	1	0	22.46	PASS
		1	12	22.35	PASS
		1	24	22.25	PASS
		12	0	21.18	PASS
		12	6	21.09	PASS
		12	13	21.04	PASS
		25	0	20.96	PASS
HCH	HCH	1	0	21.80	PASS
		1	12	21.73	PASS
		1	24	21.68	PASS
		12	0	21.65	PASS
		12	6	21.57	PASS
		12	13	21.55	PASS
		25	0	21.62	PASS

Channel Bandwidth: 10 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	24.11	PASS
		1	24	23.70	PASS
		1	49	23.56	PASS
		25	0	22.91	PASS
		25	12	22.70	PASS
		25	25	22.61	PASS
		50	0	22.68	PASS
	MCH	1	0	23.35	PASS
		1	24	22.94	PASS
		1	49	22.89	PASS
		25	0	22.20	PASS
		25	12	21.99	PASS
		25	25	21.94	PASS
		50	0	22.00	PASS
	HCH	1	0	22.80	PASS
		1	24	22.63	PASS
		1	49	22.63	PASS
		25	0	21.76	PASS
		25	12	21.56	PASS
		25	25	21.52	PASS

		50	0	21.76	PASS
16QAM	LCH	1	0	23.36	PASS
		1	24	22.97	PASS
		1	49	22.79	PASS
		25	0	21.80	PASS
		25	12	21.59	PASS
		25	25	21.54	PASS
		50	0	21.60	PASS
	MCH	1	0	22.67	PASS
		1	24	22.21	PASS
		1	49	22.16	PASS
		25	0	21.10	PASS
		25	12	21.91	PASS
		25	25	21.89	PASS
		50	0	21.96	PASS
	HCH	1	0	22.33	PASS
		1	24	21.98	PASS
		1	49	21.99	PASS
		25	0	21.78	PASS
		25	12	21.65	PASS
		25	25	21.59	PASS
		50	0	21.63	PASS

Channel Bandwidth: 15 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	24.38	PASS
		1	37	23.57	PASS
		1	74	23.42	PASS
		37	0	22.98	PASS
		37	18	22.60	PASS
		37	38	22.48	PASS
		75	0	22.68	PASS
	MCH	1	0	23.74	PASS
		1	37	22.87	PASS
		1	74	22.97	PASS
		37	0	22.38	PASS
		37	18	22.06	PASS
		37	38	22.04	PASS
		75	0	22.14	PASS
	HCH	1	0	23.02	PASS
		1	37	22.41	PASS

		1	74	22.42	PASS
		37	0	21.96	PASS
		37	18	21.71	PASS
		37	38	21.72	PASS
		75	0	21.84	PASS
16QAM	LCH	1	0	23.66	PASS
		1	37	22.94	PASS
		1	74	22.75	PASS
		37	0	21.85	PASS
		37	18	21.49	PASS
		37	38	21.38	PASS
		75	0	21.63	PASS
	MCH	1	0	23.13	PASS
		1	37	22.24	PASS
		1	74	22.32	PASS
		37	0	21.37	PASS
		37	18	21.00	PASS
		37	38	21.92	PASS
		75	0	21.12	PASS
	HCH	1	0	22.57	PASS
		1	37	22.01	PASS
		1	74	21.95	PASS
		37	0	21.92	PASS
		37	18	21.66	PASS
		37	38	21.63	PASS
		75	0	21.78	PASS

Channel Bandwidth: 20 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	24.20	PASS
		1	49	24.40	PASS
		1	99	23.03	PASS
		50	0	22.81	PASS
		50	25	22.33	PASS
		50	50	22.19	PASS
		100	0	22.49	PASS
	MCH	1	0	23.52	PASS
		1	49	22.67	PASS
		1	99	22.53	PASS
		50	0	22.33	PASS
		50	25	21.96	PASS

		50	50	21.87	PASS
		100	0	22.04	PASS
16QAM	HCH	1	0	23.17	PASS
		1	49	22.40	PASS
		1	99	22.27	PASS
		50	0	21.92	PASS
		50	25	21.65	PASS
		50	50	21.72	PASS
		100	0	21.80	PASS
		1	0	23.41	PASS
16QAM	LCH	1	49	22.55	PASS
		1	99	22.26	PASS
		50	0	21.69	PASS
		50	25	21.28	PASS
		50	50	21.16	PASS
		100	0	21.38	PASS
	MCH	1	0	22.93	PASS
		1	49	22.06	PASS
		1	99	22.01	PASS
		50	0	21.21	PASS
		50	25	21.74	PASS
		50	50	21.71	PASS
		100	0	21.92	PASS
16QAM	HCH	1	0	22.67	PASS
		1	49	22.21	PASS
		1	99	21.84	PASS
		50	0	21.96	PASS
		50	25	21.68	PASS
		50	50	21.55	PASS
		100	0	21.72	PASS

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	3.89	<13	PASS
		1	3	3.94	<13	PASS
		1	5	3.88	<13	PASS
		3	0	4.21	<13	PASS
		3	2	4.19	<13	PASS
		3	3	4.2	<13	PASS
		6	0	5.06	<13	PASS
	MCH	1	0	3.53	<13	PASS
		1	3	3.57	<13	PASS
		1	5	3.55	<13	PASS
		3	0	3.72	<13	PASS
		3	2	3.73	<13	PASS
		3	3	3.78	<13	PASS
		6	0	4.69	<13	PASS
16QAM	LCH	1	0	2.51	<13	PASS
		1	3	2.46	<13	PASS
		1	5	2.37	<13	PASS
		3	0	2.64	<13	PASS
		3	2	2.51	<13	PASS
		3	3	2.57	<13	PASS
		6	0	3.67	<13	PASS
	MCH	1	0	4.82	<13	PASS
		1	3	4.82	<13	PASS
		1	5	4.77	<13	PASS
		3	0	5.07	<13	PASS
		3	2	5.04	<13	PASS
		3	3	5.03	<13	PASS
		6	0	5.44	<13	PASS

		3	3	4.55	<13	PASS
		6	0	4.96	<13	PASS
HCH		1	0	3.33	<13	PASS
		1	3	3.29	<13	PASS
		1	5	3.17	<13	PASS
		3	0	3.29	<13	PASS
		3	2	3.24	<13	PASS
		3	3	3.21	<13	PASS
		6	0	3.9	<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	3.84	<13	PASS
		1	7	3.91	<13	PASS
		1	14	3.81	<13	PASS
		8	0	4.89	<13	PASS
		8	4	4.79	<13	PASS
		8	7	4.87	<13	PASS
		15	0	5.14	<13	PASS
	MCH	1	0	3.37	<13	PASS
		1	7	3.58	<13	PASS
		1	14	3.72	<13	PASS
		8	0	4.49	<13	PASS
		8	4	4.46	<13	PASS
		8	7	4.62	<13	PASS
		15	0	4.86	<13	PASS
	HCH	1	0	2.71	<13	PASS
		1	7	2.55	<13	PASS
		1	14	2.36	<13	PASS
		8	0	3.67	<13	PASS
		8	4	3.31	<13	PASS
		8	7	3.44	<13	PASS
		15	0	4.15	<13	PASS
16QAM	LCH	1	0	4.71	<13	PASS
		1	7	4.76	<13	PASS
		1	14	4.7	<13	PASS
		8	0	5.17	<13	PASS
		8	4	5.06	<13	PASS
		8	7	5.14	<13	PASS

		15	0	5.62	<13	PASS
MCH	1	0	4.13	<13	PASS	
	1	7	4.37	<13	PASS	
	1	14	4.51	<13	PASS	
	8	0	4.61	<13	PASS	
	8	4	4.6	<13	PASS	
	8	7	4.78	<13	PASS	
	15	0	5.22	<13	PASS	
HCH	1	0	3.56	<13	PASS	
	1	7	3.42	<13	PASS	
	1	14	3.17	<13	PASS	
	8	0	3.88	<13	PASS	
	8	4	3.55	<13	PASS	
	8	7	3.65	<13	PASS	
	15	0	4.47	<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	3.78	<13	PASS
		1	12	4.06	<13	PASS
		1	24	3.64	<13	PASS
		12	0	4.99	<13	PASS
		12	6	4.94	<13	PASS
		12	13	4.91	<13	PASS
		25	0	5.25	<13	PASS
QPSK	MCH	1	0	3.12	<13	PASS
		1	12	3.61	<13	PASS
		1	24	3.69	<13	PASS
		12	0	4.47	<13	PASS
		12	6	4.57	<13	PASS
		12	13	4.77	<13	PASS
		25	0	4.99	<13	PASS
QPSK	HCH	1	0	3.12	<13	PASS
		1	12	2.97	<13	PASS
		1	24	2.41	<13	PASS
		12	0	4.19	<13	PASS
		12	6	3.88	<13	PASS
		12	13	3.71	<13	PASS
		25	0	4.43	<13	PASS

16QAM	LCH	1	0	4.75	<13	PASS
		1	12	4.93	<13	PASS
		1	24	4.54	<13	PASS
		12	0	5.38	<13	PASS
		12	6	5.35	<13	PASS
		12	13	5.29	<13	PASS
		25	0	5.64	<13	PASS
	MCH	1	0	4.05	<13	PASS
		1	12	4.58	<13	PASS
		1	24	4.54	<13	PASS
		12	0	4.69	<13	PASS
		12	6	4.83	<13	PASS
		12	13	5.01	<13	PASS
		25	0	5.29	<13	PASS
	HCH	1	0	3.86	<13	PASS
		1	12	3.68	<13	PASS
		1	24	3.07	<13	PASS
		12	0	4.46	<13	PASS
		12	6	4.16	<13	PASS
		12	13	3.96	<13	PASS
		25	0	4.74	<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	4.13	<13	PASS
		1	24	3.9	<13	PASS
		1	49	3.44	<13	PASS
		25	0	5.05	<13	PASS
		25	12	4.83	<13	PASS
		25	25	4.77	<13	PASS
		50	0	5.14	<13	PASS
	MCH	1	0	3.22	<13	PASS
		1	24	3.72	<13	PASS
		1	49	4.23	<13	PASS
		25	0	4.61	<13	PASS
		25	12	4.74	<13	PASS
		25	25	5.03	<13	PASS
		50	0	5.11	<13	PASS
	HCH	1	0	4.13	<13	PASS

		1	24	3.44	<13	PASS
		1	49	2.69	<13	PASS
		25	0	4.97	<13	PASS
		25	12	4.53	<13	PASS
		25	25	4.3	<13	PASS
		50	0	5	<13	PASS
16QAM	LCH	1	0	5	<13	PASS
		1	24	4.79	<13	PASS
		1	49	4.31	<13	PASS
		25	0	5.5	<13	PASS
		25	12	5.18	<13	PASS
		25	25	5.16	<13	PASS
		50	0	5.58	<13	PASS
	MCH	1	0	4.12	<13	PASS
		1	24	4.57	<13	PASS
		1	49	5.08	<13	PASS
		25	0	4.9	<13	PASS
		25	12	4.96	<13	PASS
		25	25	5.44	<13	PASS
		50	0	5.47	<13	PASS
	HCH	1	0	5.09	<13	PASS
		1	24	4.37	<13	PASS
		1	49	3.58	<13	PASS
		25	0	5.35	<13	PASS
		25	12	4.84	<13	PASS
		25	25	4.59	<13	PASS
		50	0	5.4	<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	10	<13	PASS
		1	37	3.62	<13	PASS
		1	74	9.66	<13	PASS
		37	0	4.6	<13	PASS
		37	18	4.89	<13	PASS
		37	38	4.51	<13	PASS
		75	0	4.92	<13	PASS
	MCH	1	0	10.3	<13	PASS
		1	37	3.72	<13	PASS

		1	74	9.43	<13	PASS
		37	0	4.48	<13	PASS
		37	18	4.94	<13	PASS
		37	38	4.69	<13	PASS
		75	0	4.99	<13	PASS
	HCH	1	0	9.01	<13	PASS
		1	37	4.03	<13	PASS
		1	74	9.39	<13	PASS
		37	0	4.64	<13	PASS
		37	18	5.14	<13	PASS
		37	38	4.54	<13	PASS
		75	0	4.97	<13	PASS
16QAM	LCH	1	0	9.44	<13	PASS
		1	37	4.53	<13	PASS
		1	74	10.01	<13	PASS
		37	0	5.57	<13	PASS
		37	18	5.25	<13	PASS
		37	38	5.51	<13	PASS
		75	0	5.94	<13	PASS
	MCH	1	0	10.12	<13	PASS
		1	37	4.64	<13	PASS
		1	74	9.43	<13	PASS
		37	0	5.47	<13	PASS
		37	18	5.22	<13	PASS
		37	38	5.75	<13	PASS
		75	0	5.99	<13	PASS
	HCH	1	0	9.4	<13	PASS
		1	37	4.95	<13	PASS
		1	74	10.16	<13	PASS
		37	0	5.7	<13	PASS
		37	18	5.59	<13	PASS
		37	38	5.59	<13	PASS
		75	0	6.06	<13	PASS

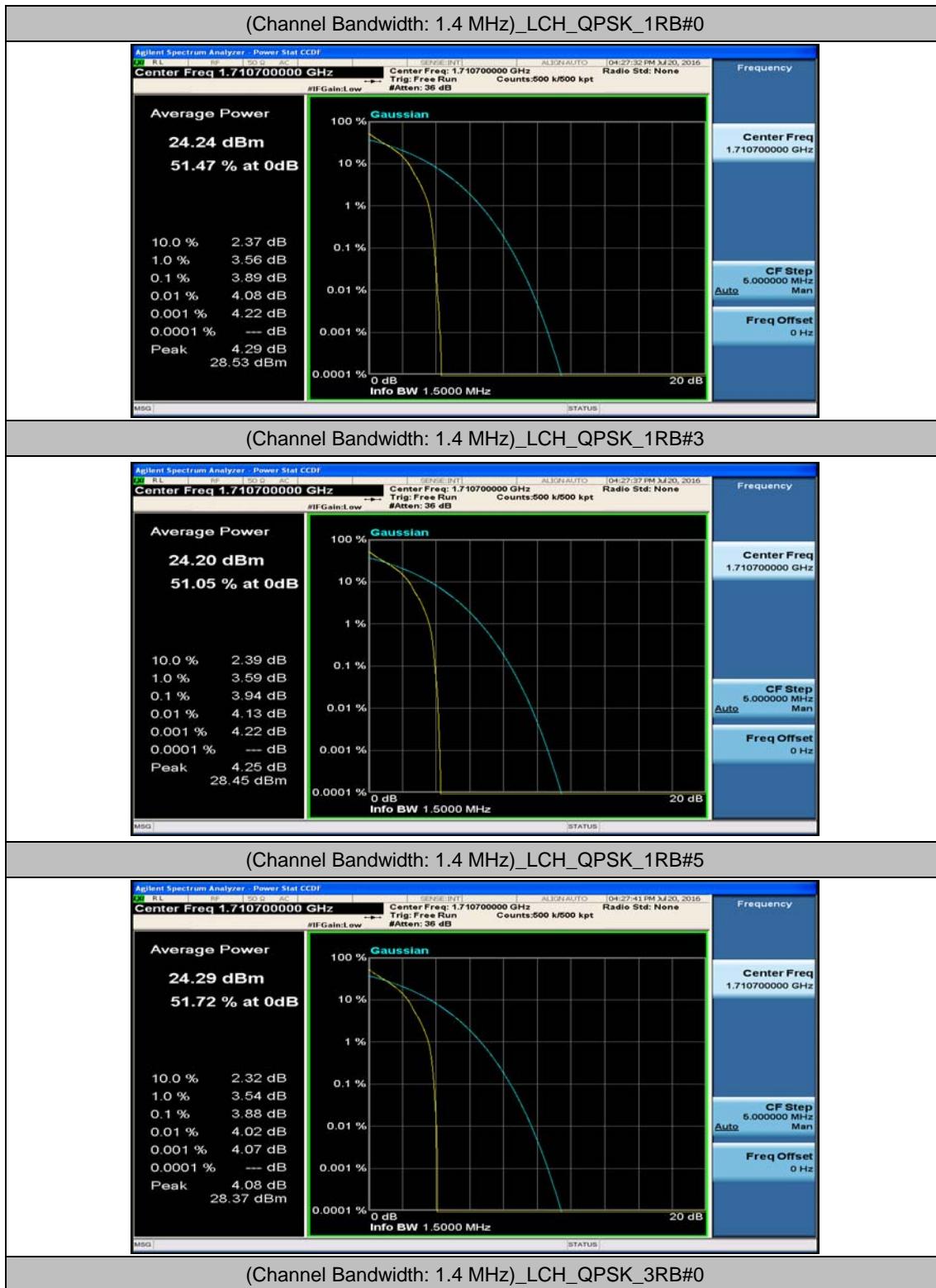
Channel Bandwidth: 20 MHz

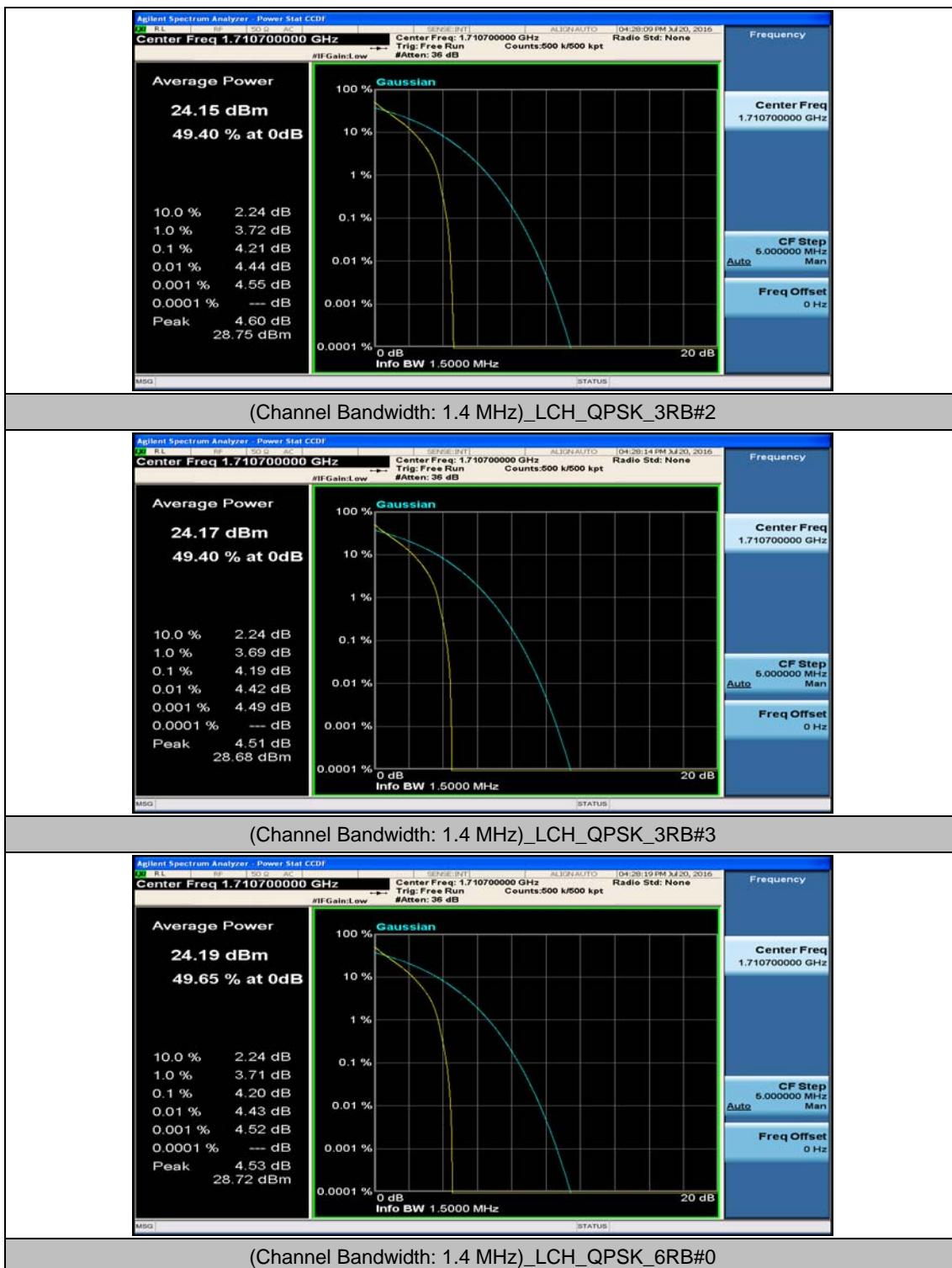
Channel Bandwidth: 20 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	LCH	1	0	9.21	<13	PASS
		1	49	3.3	<13	PASS
		1	99	9.1	<13	PASS

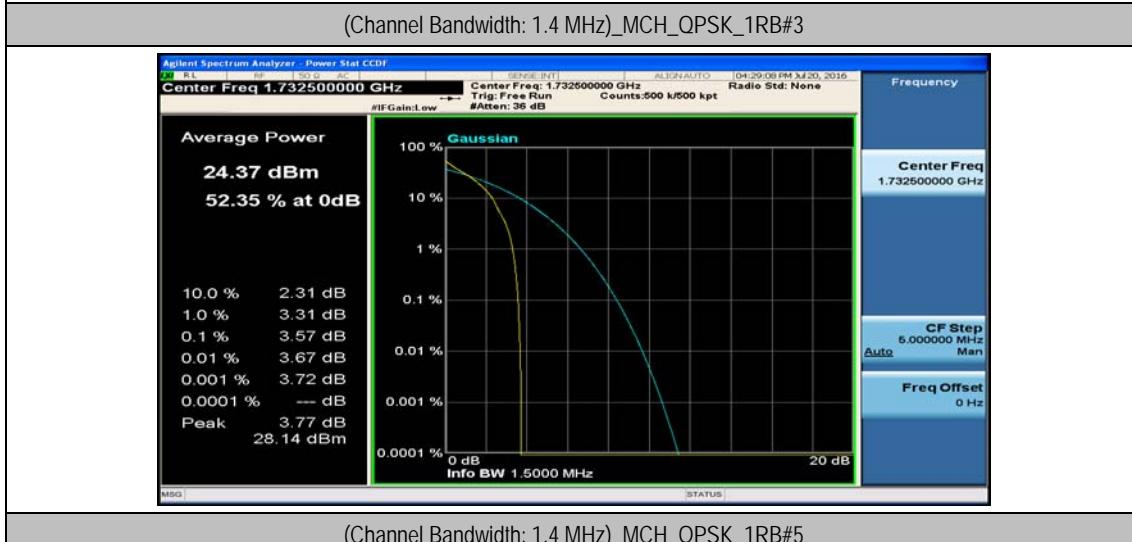
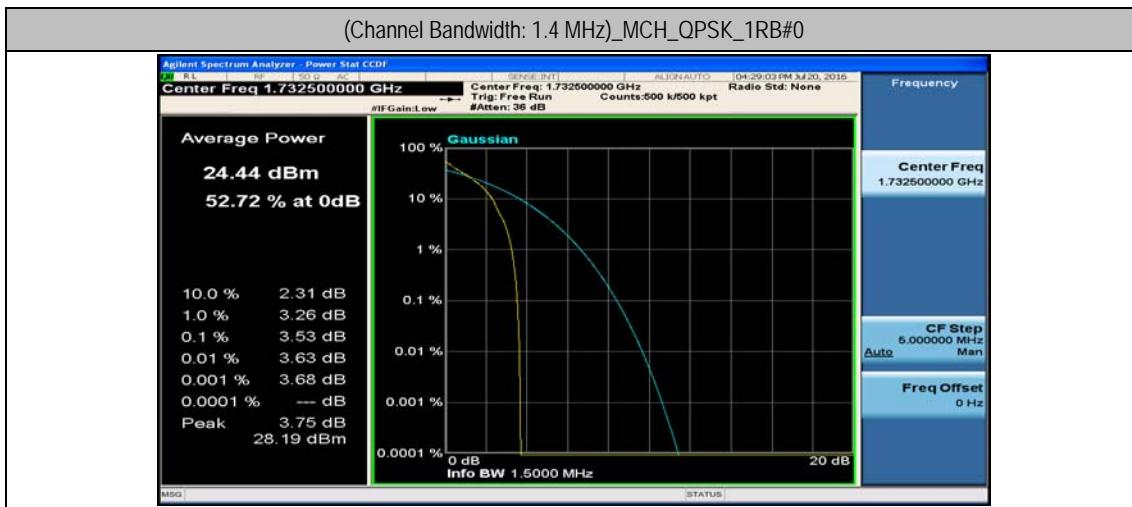
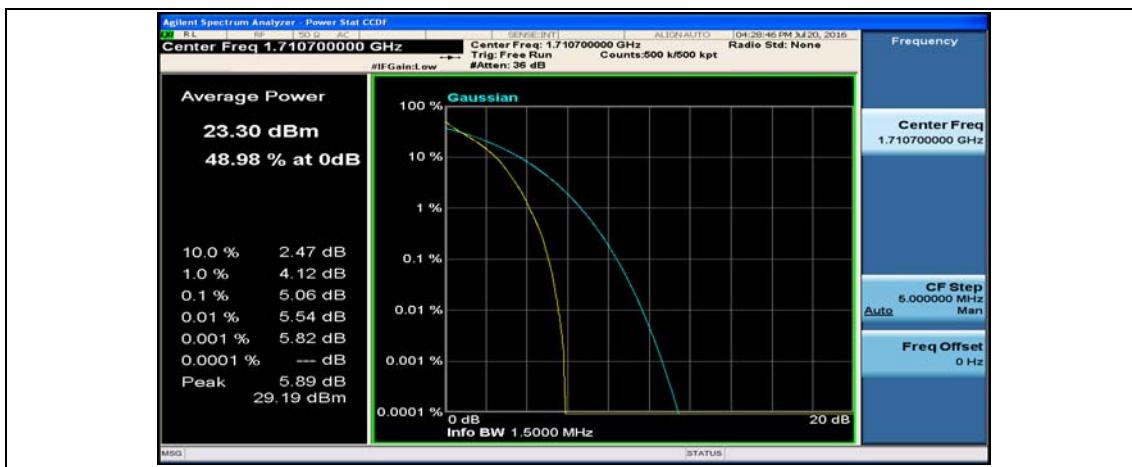
		50	0	5.39	<13	PASS
		50	25	4.94	<13	PASS
		50	50	5.57	<13	PASS
		100	0	5.67	<13	PASS
MCH	MCH	1	0	9.43	<13	PASS
		1	49	3.75	<13	PASS
		1	99	9.52	<13	PASS
		50	0	5.41	<13	PASS
		50	25	5.17	<13	PASS
		50	50	5.69	<13	PASS
		100	0	5.77	<13	PASS
HCH	HCH	1	0	9.43	<13	PASS
		1	49	4.47	<13	PASS
		1	99	9.53	<13	PASS
		50	0	5.45	<13	PASS
		50	25	5.41	<13	PASS
		50	50	5.74	<13	PASS
		100	0	5.81	<13	PASS
16QAM	LCH	1	0	9.01	<13	PASS
		1	49	4.07	<13	PASS
		1	99	8.84	<13	PASS
		50	0	6.18	<13	PASS
		50	25	5.32	<13	PASS
		50	50	6.23	<13	PASS
		100	0	6.46	<13	PASS
	MCH	1	0	9.2	<13	PASS
		1	49	4.55	<13	PASS
		1	99	9.09	<13	PASS
		50	0	6.34	<13	PASS
		50	25	5.58	<13	PASS
		50	50	6.43	<13	PASS
		100	0	6.61	<13	PASS
	HCH	1	0	9.1	<13	PASS
		1	49	5.16	<13	PASS
		1	99	8.96	<13	PASS
		50	0	6.4	<13	PASS
		50	25	5.89	<13	PASS
		50	50	6.52	<13	PASS
		100	0	6.58	<13	PASS

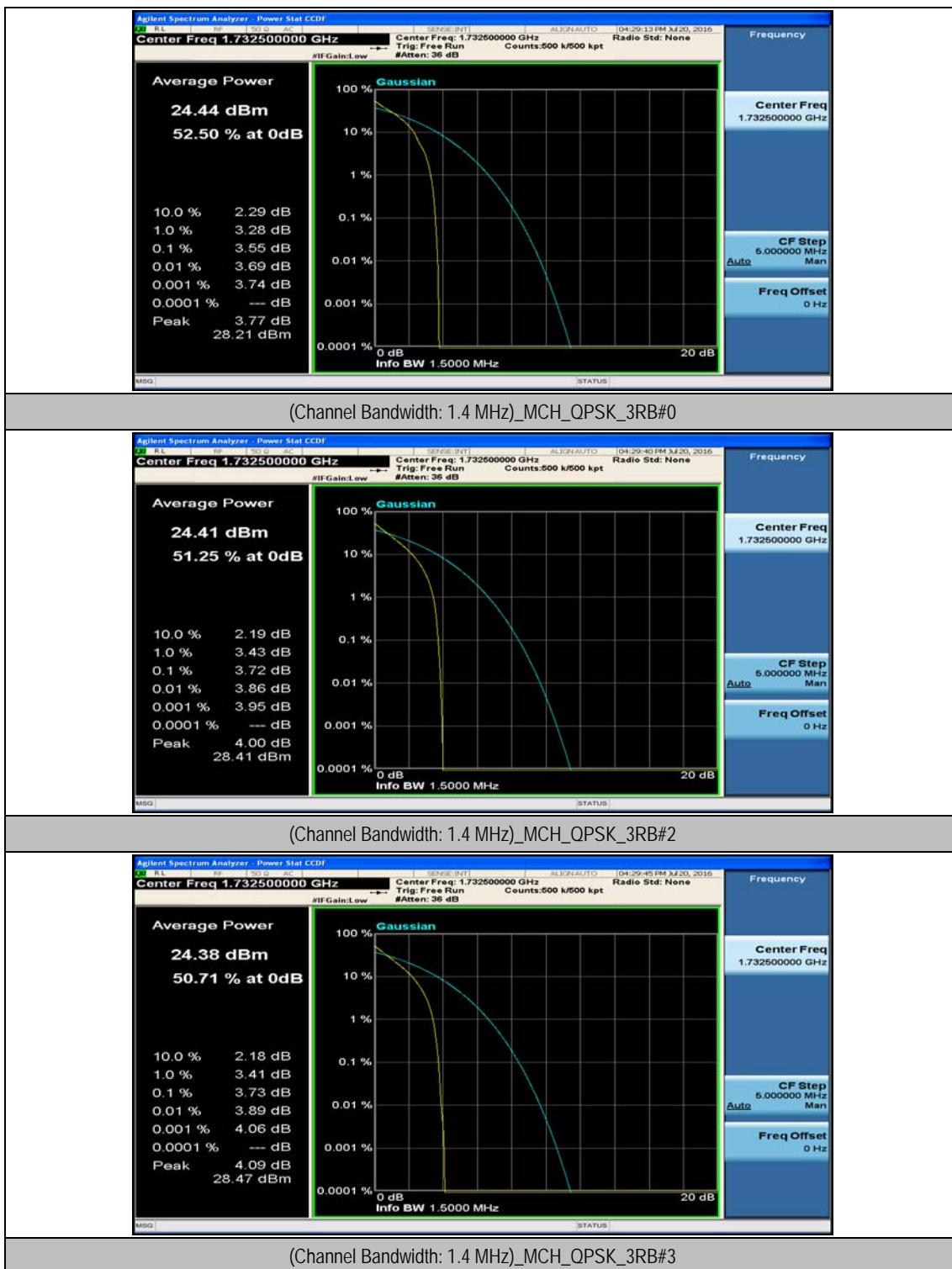
Test Graphs

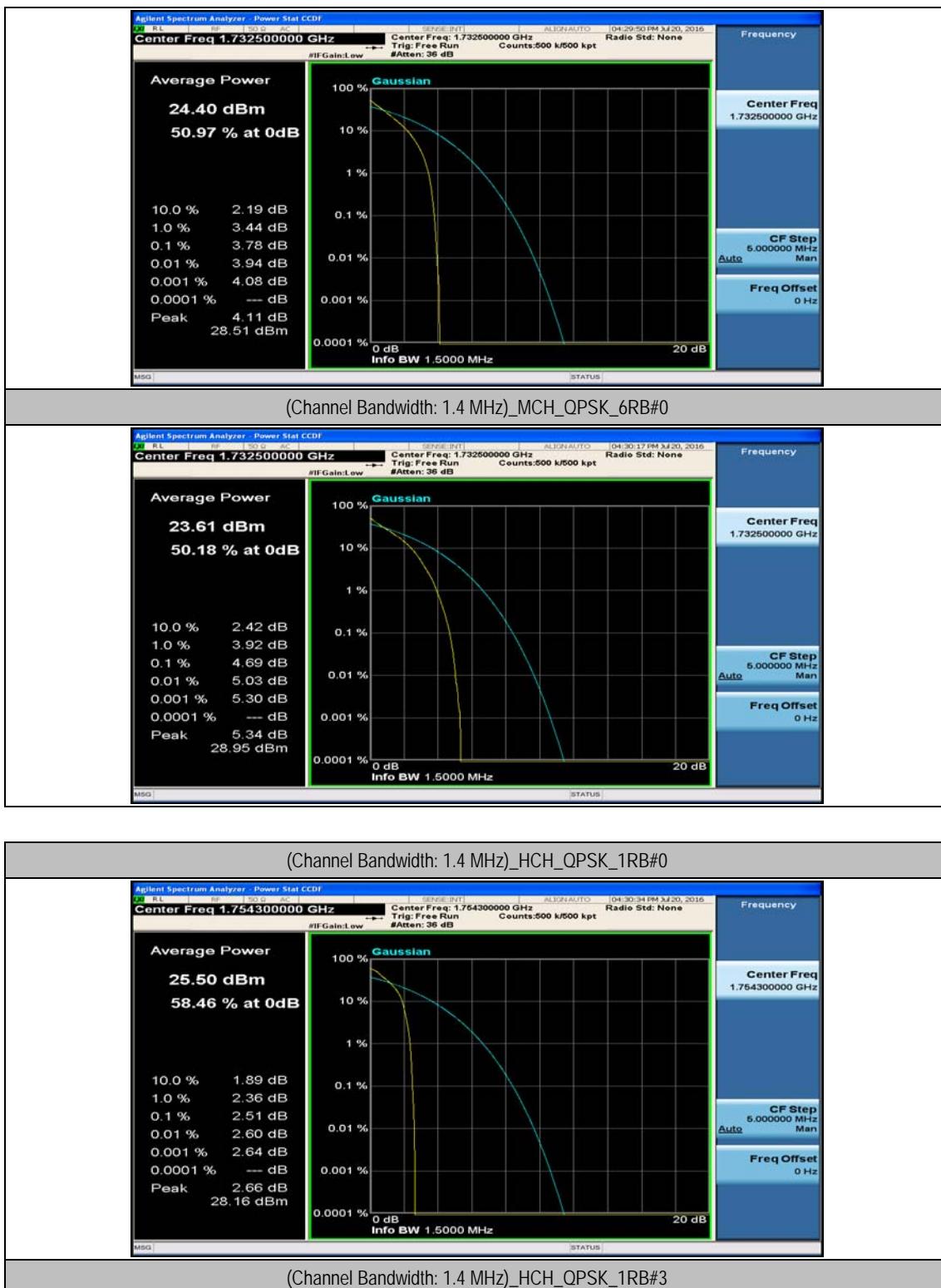
Channel Bandwidth: 1.4 MHz

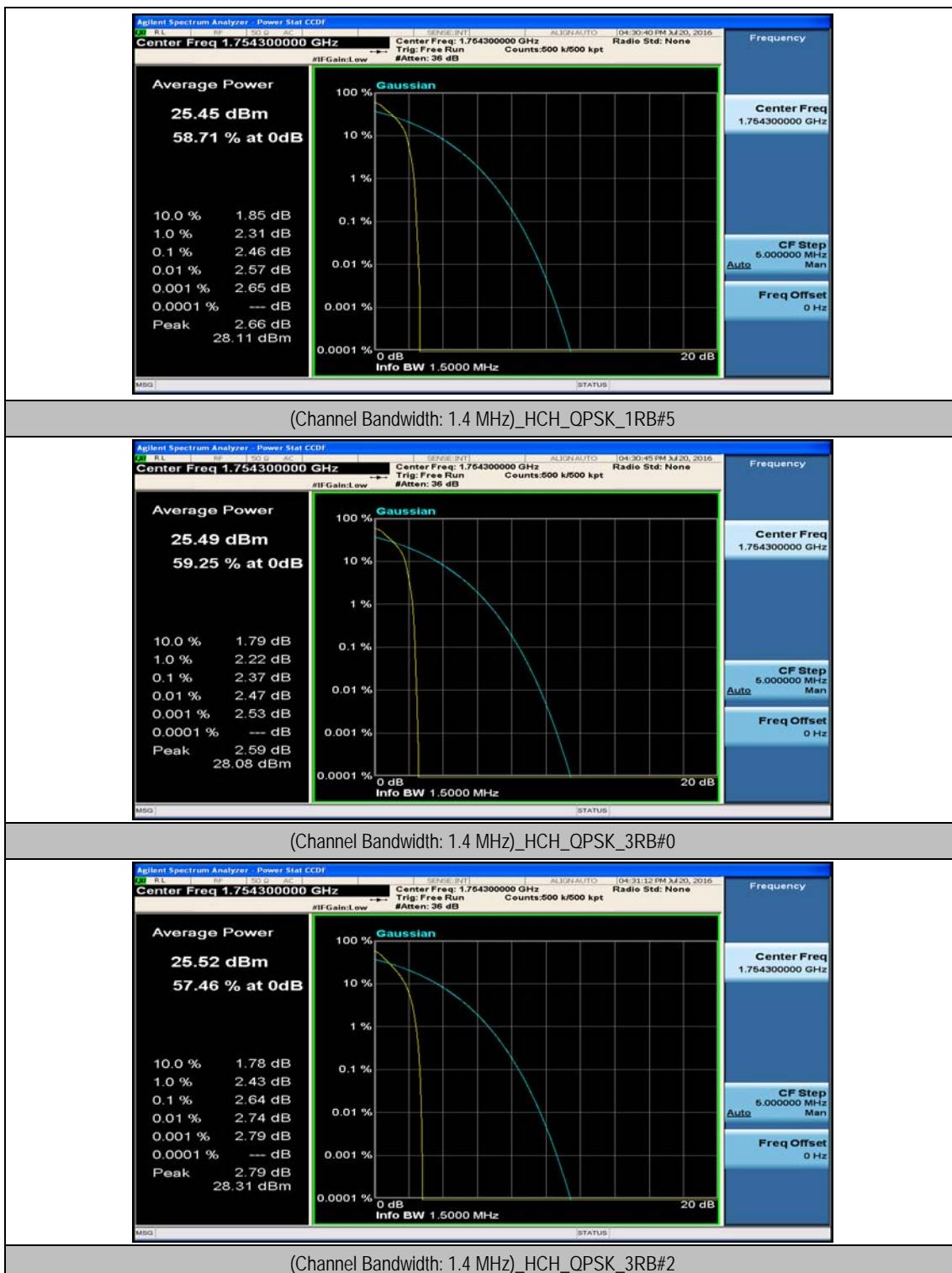


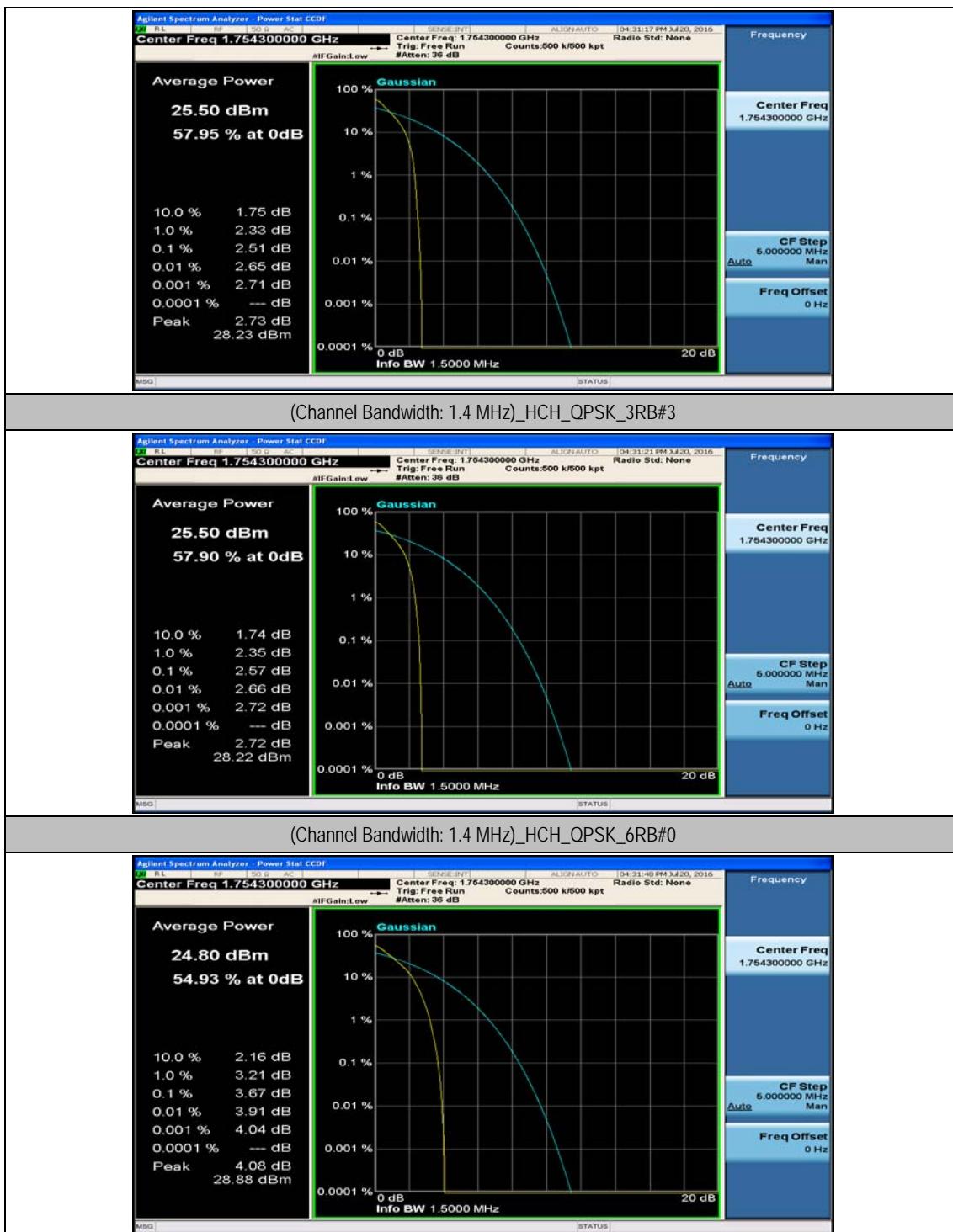


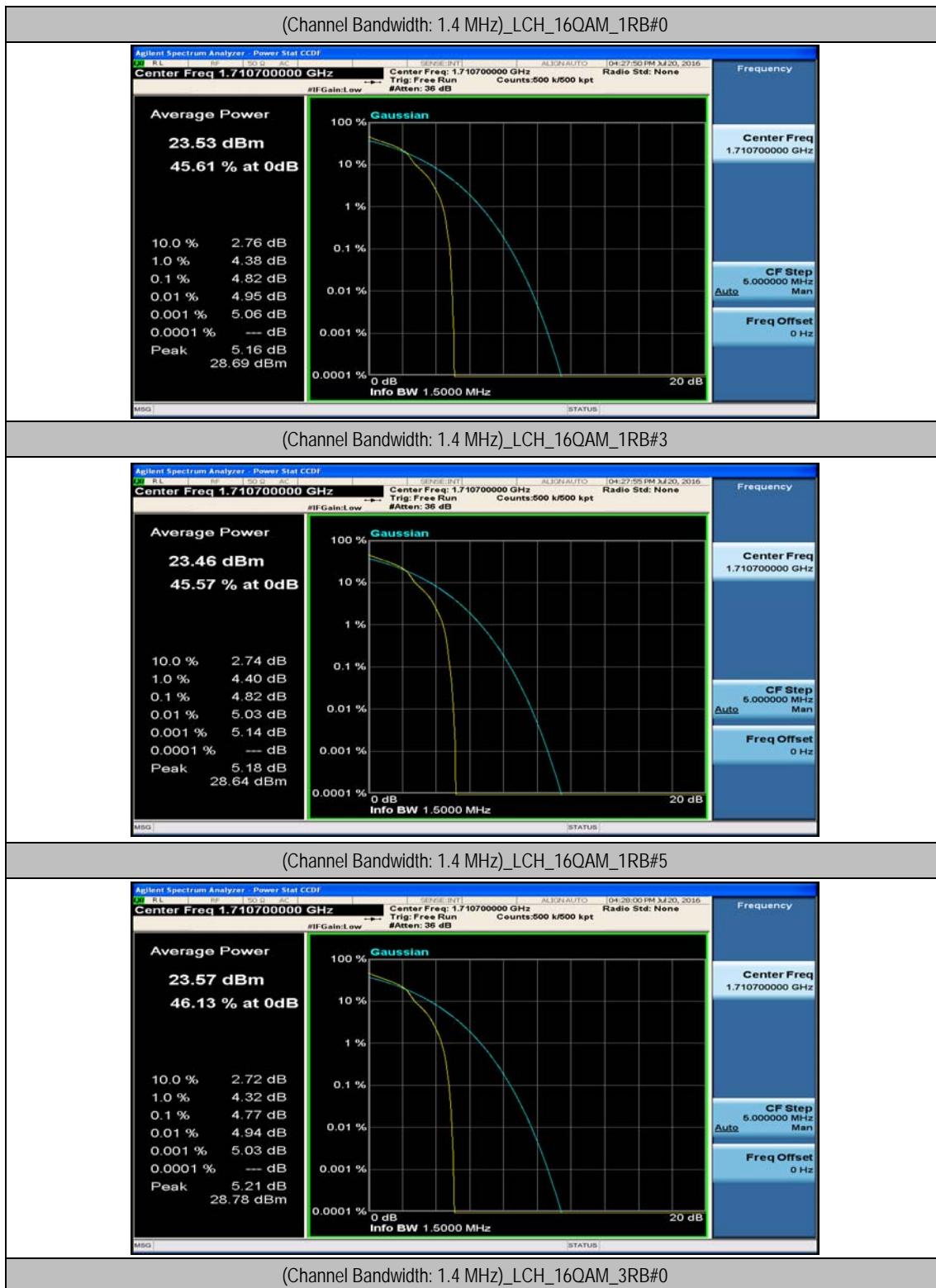


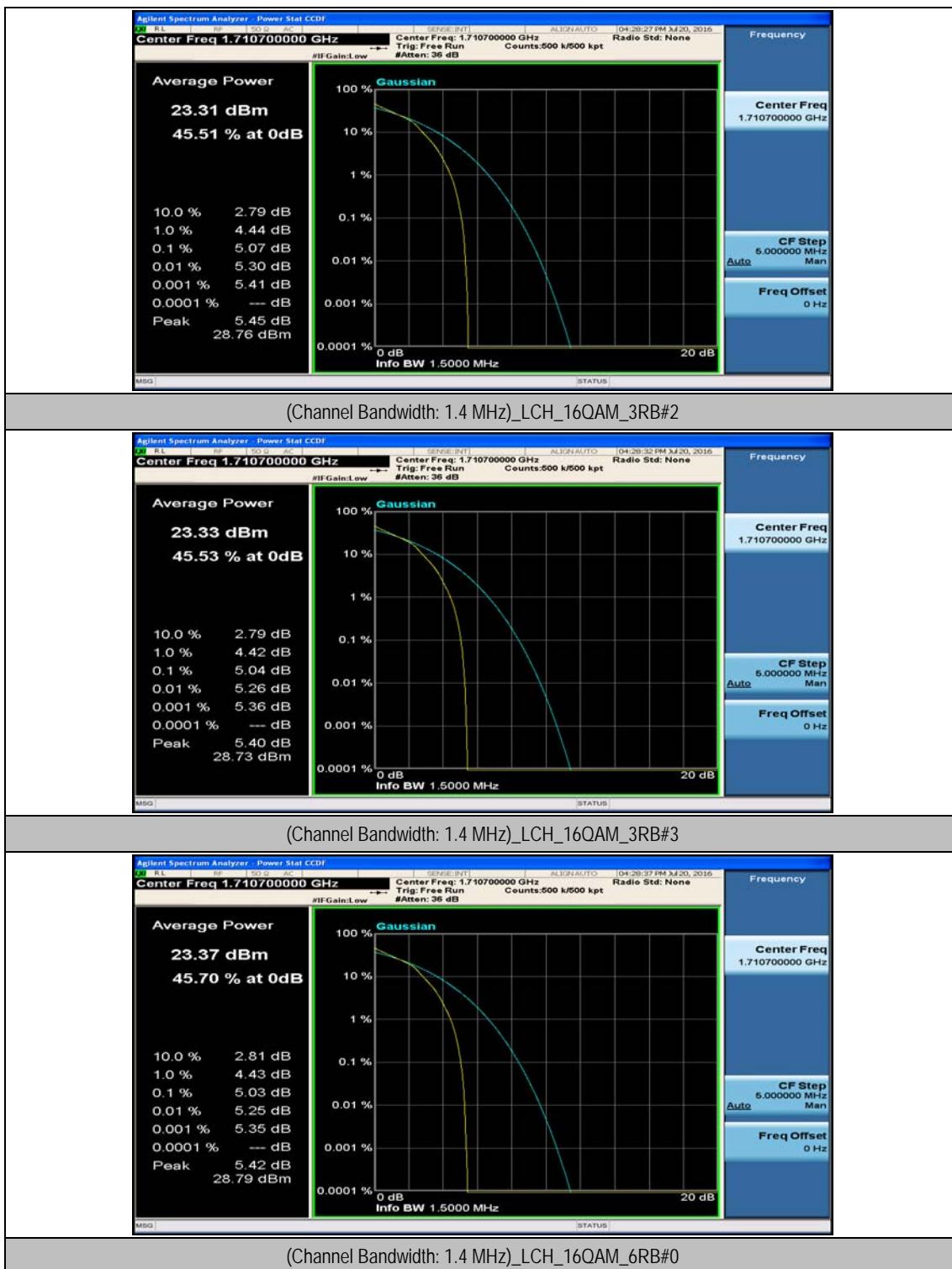


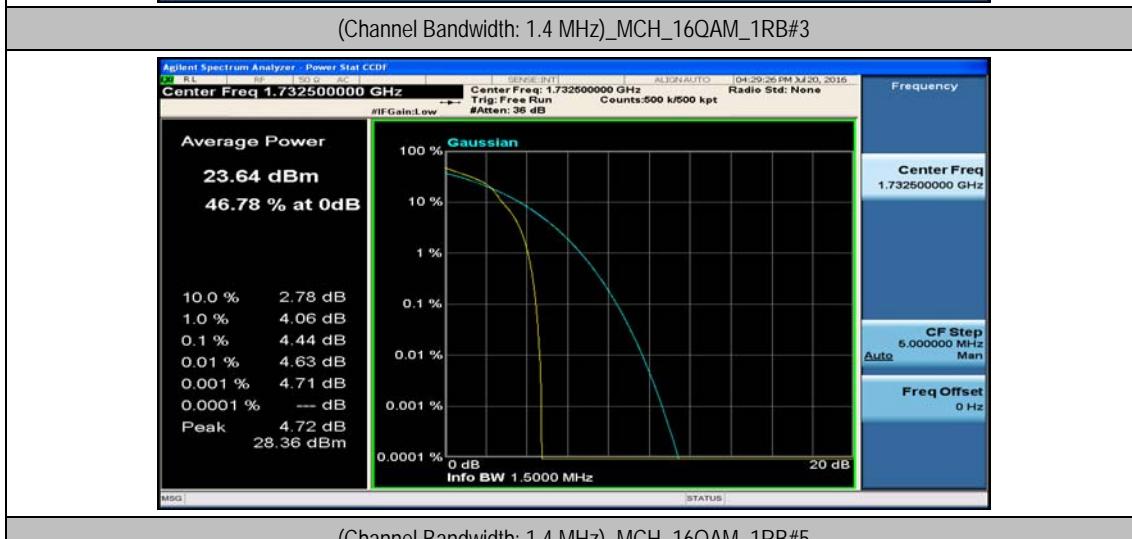
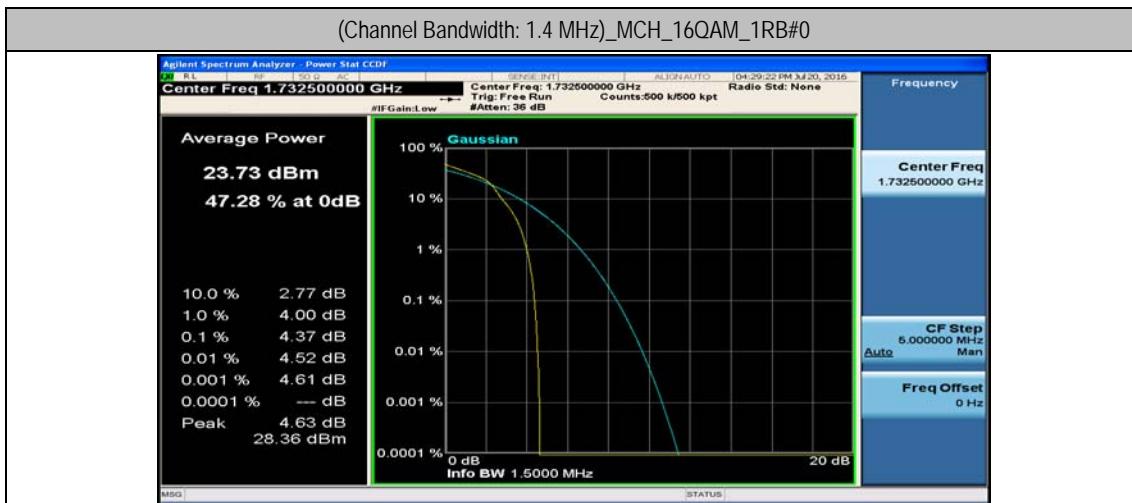
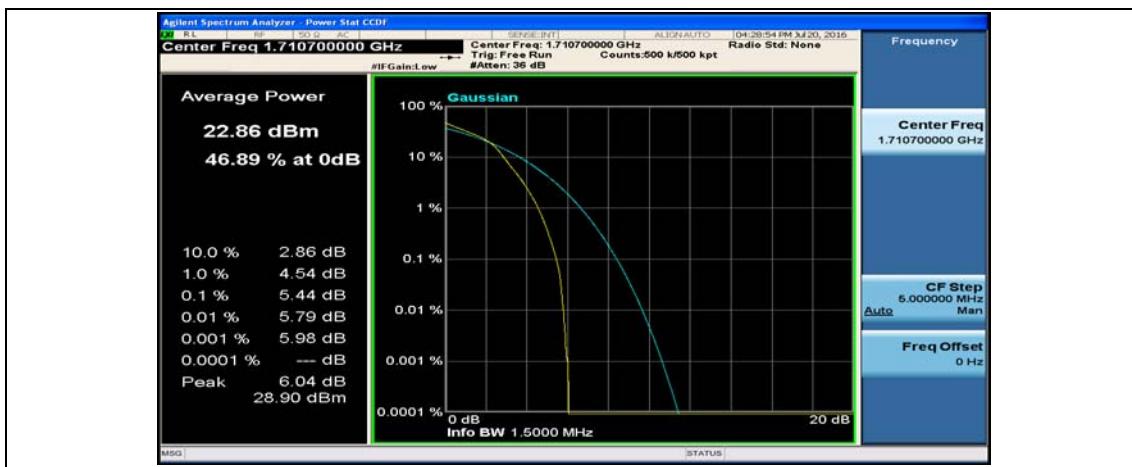




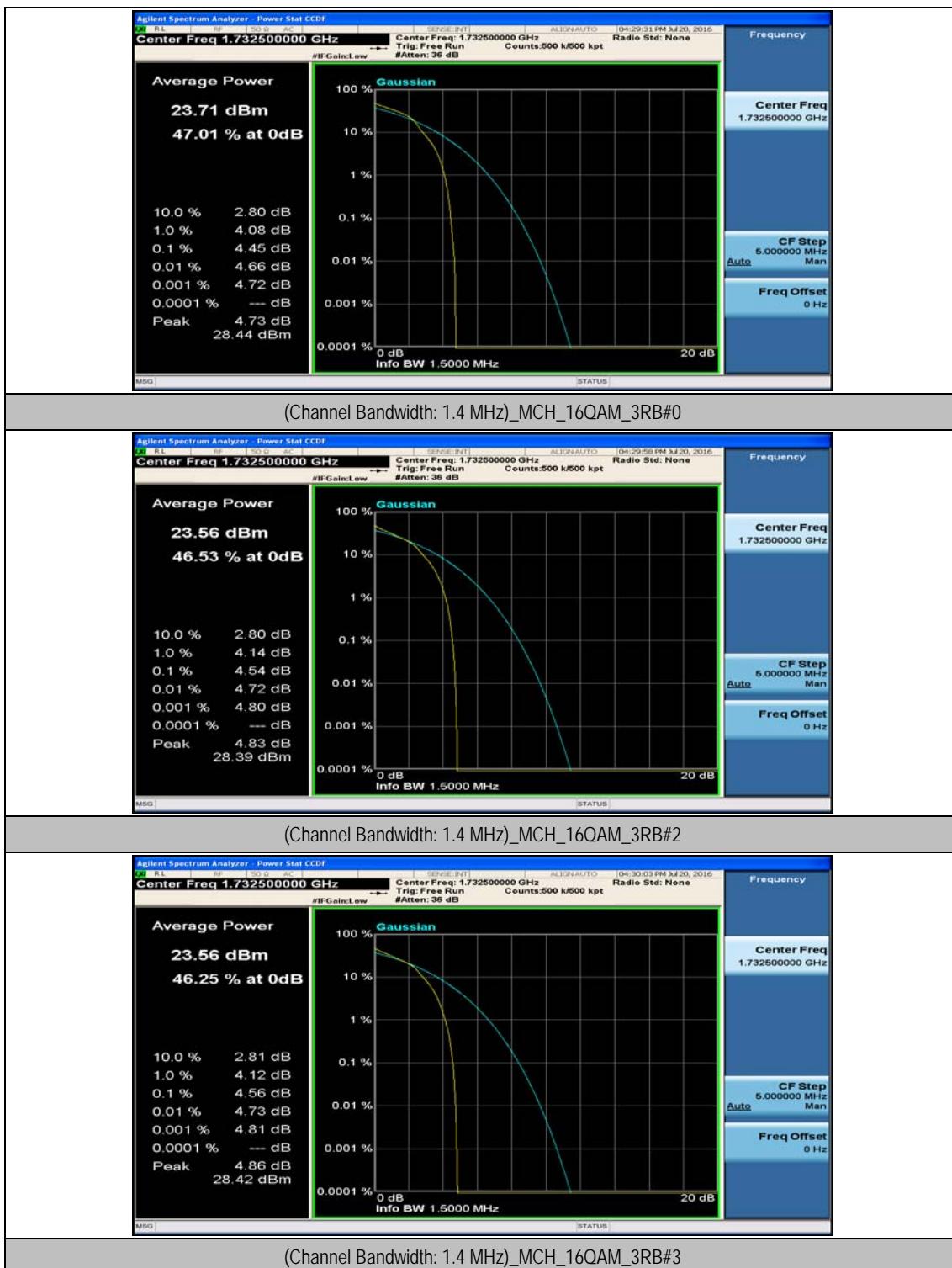


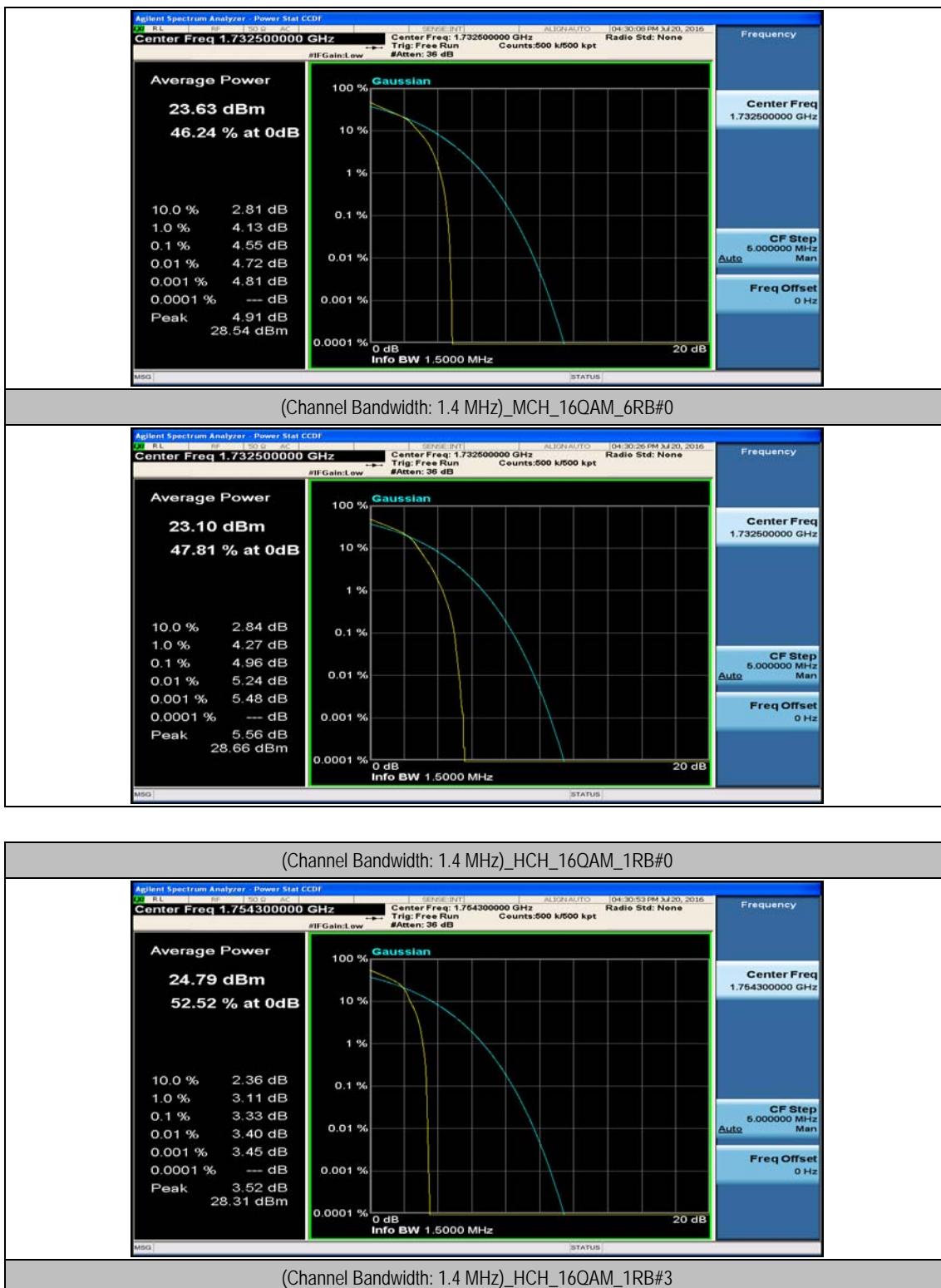


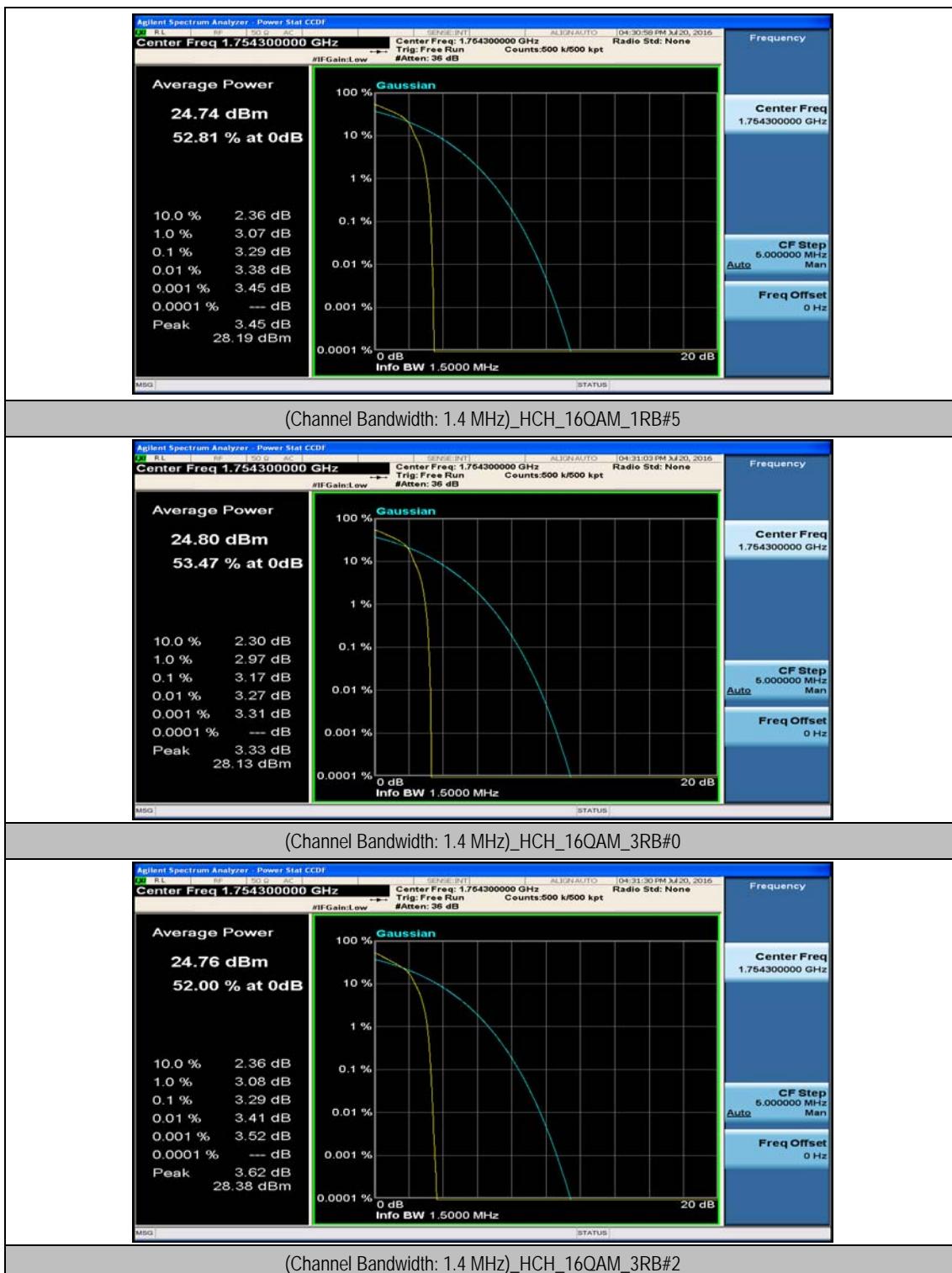


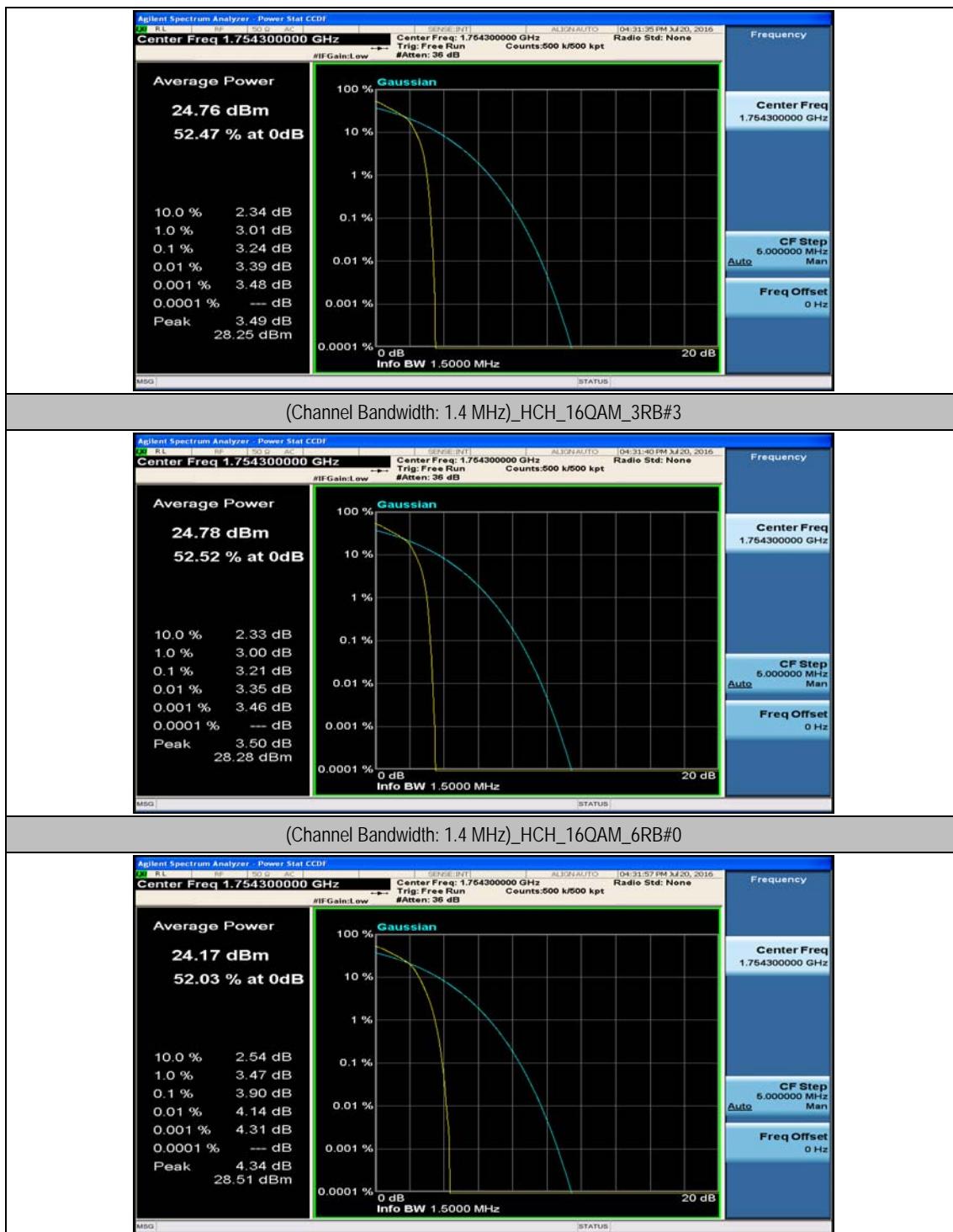


(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#5

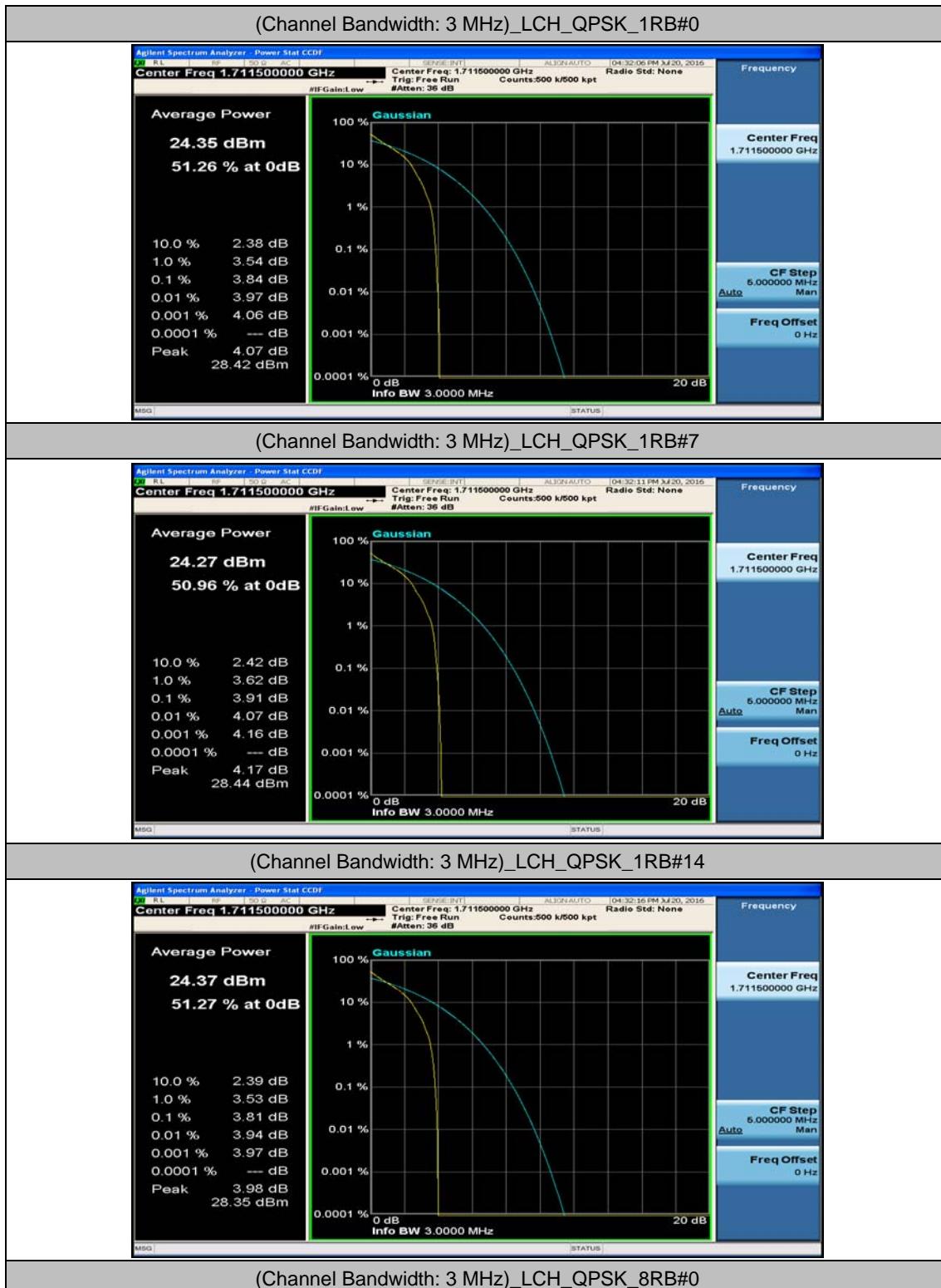


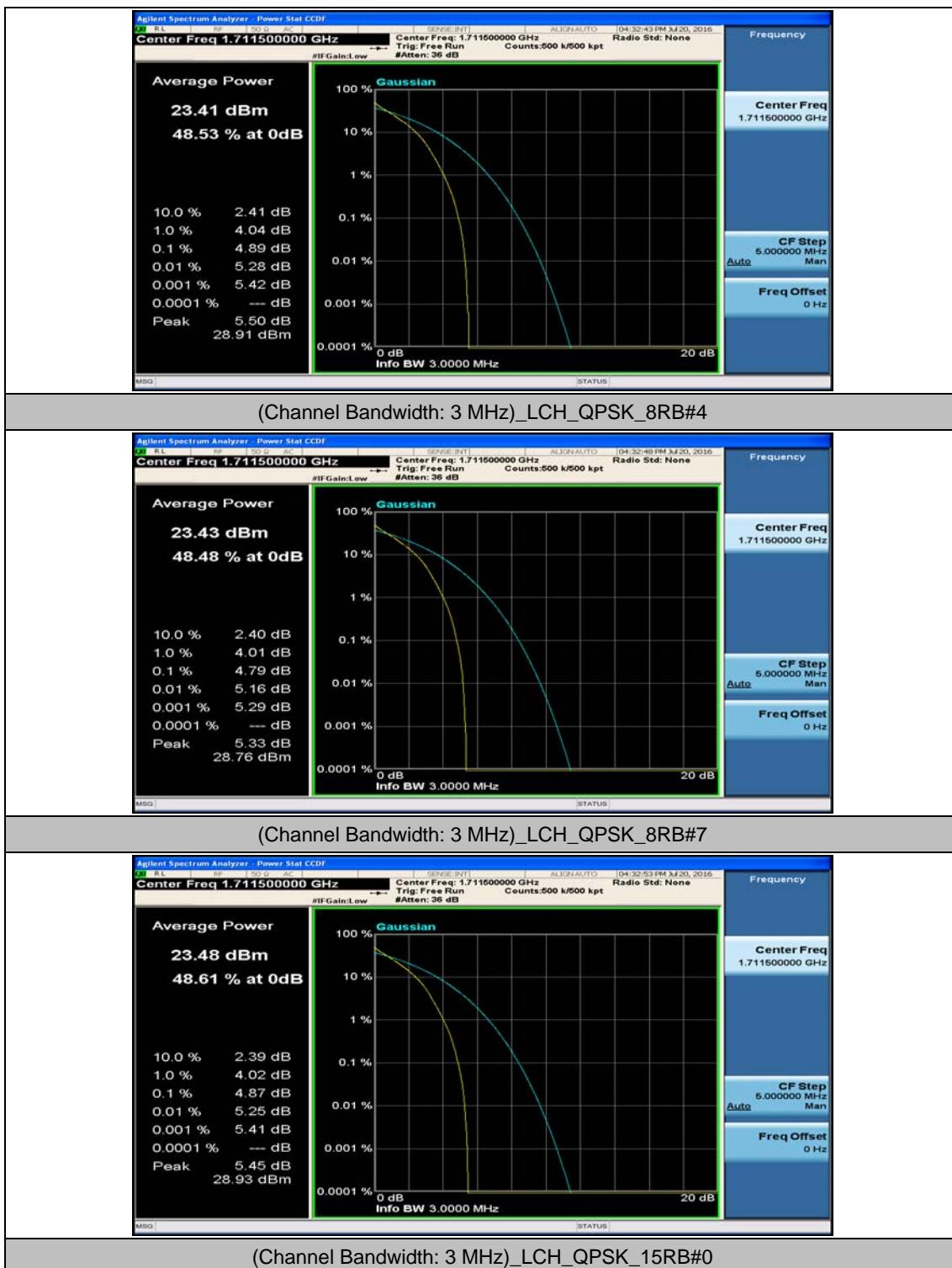


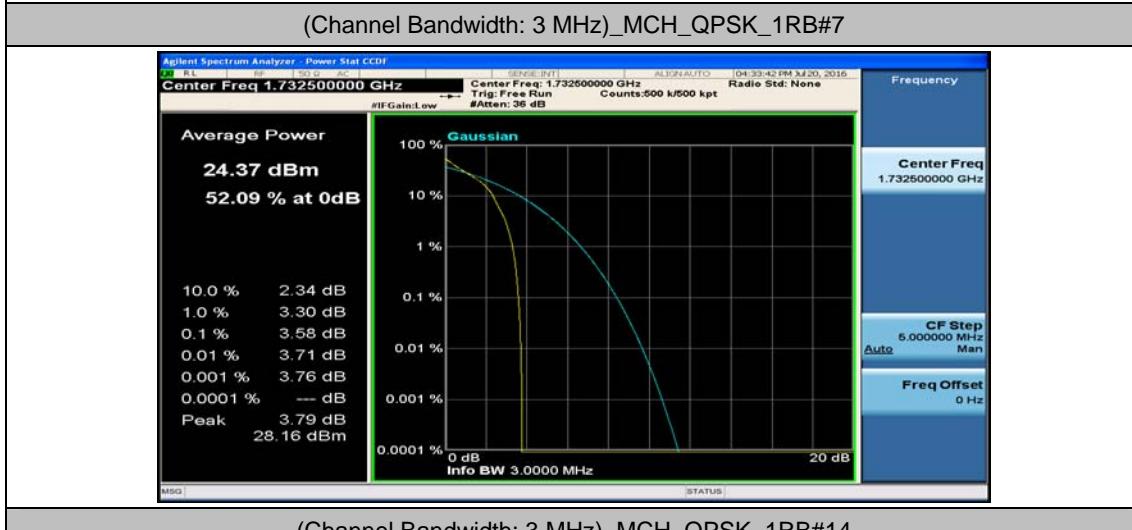
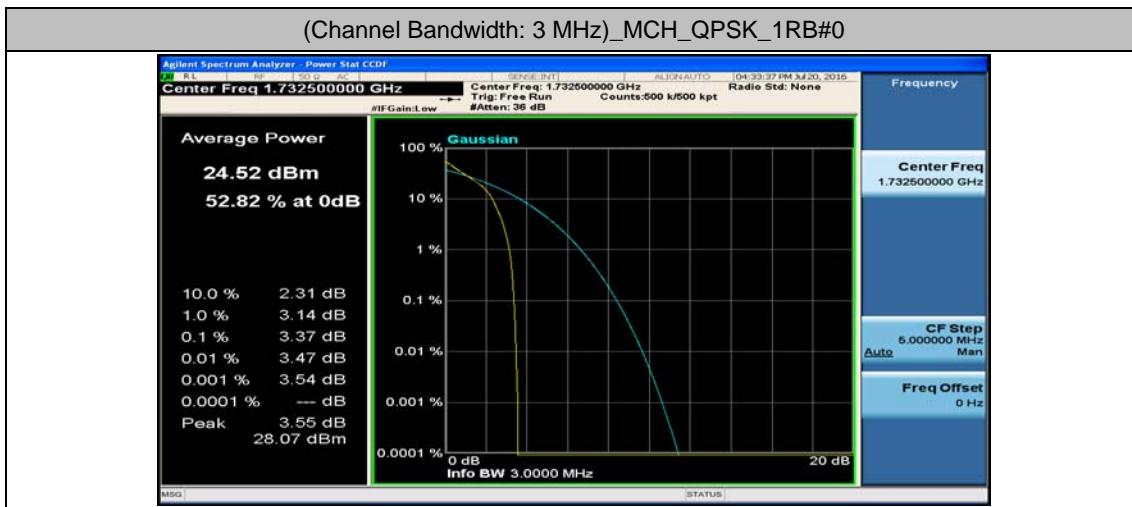
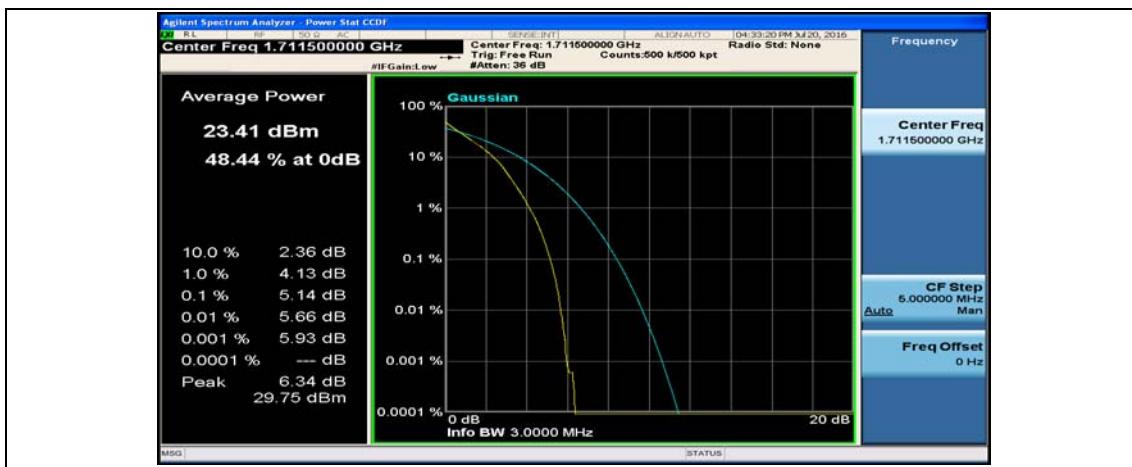




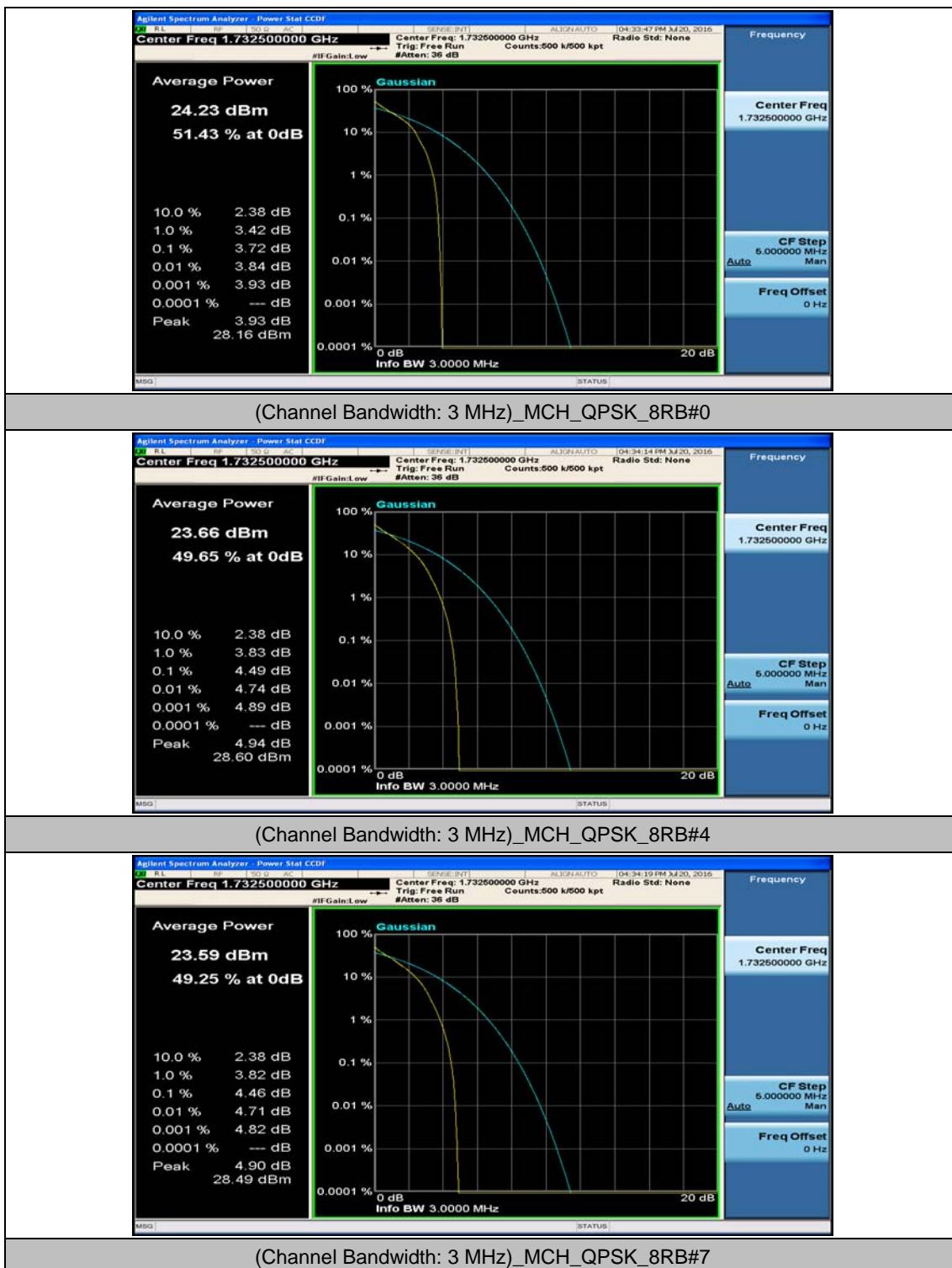
Channel Bandwidth: 3 MHz

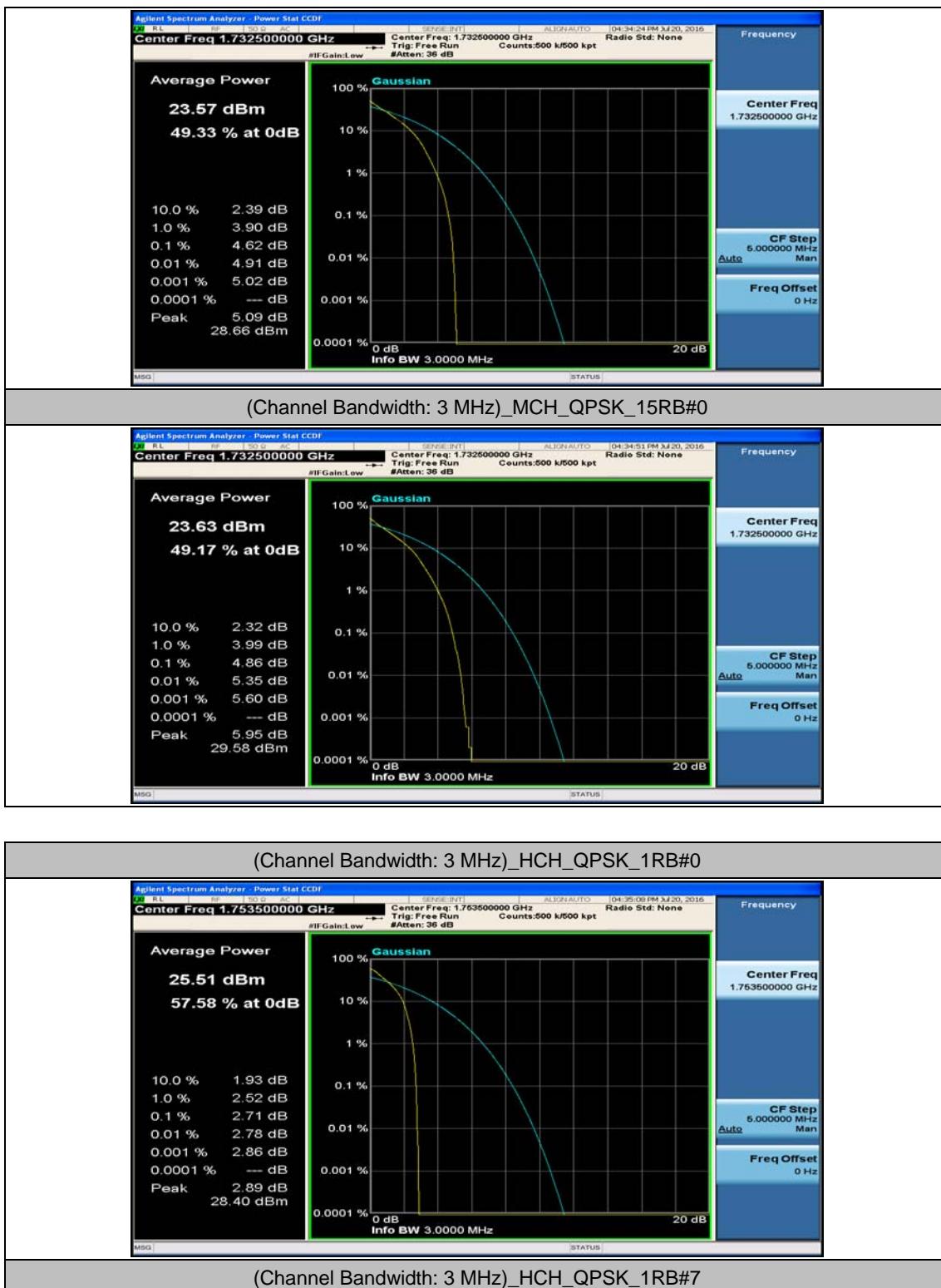


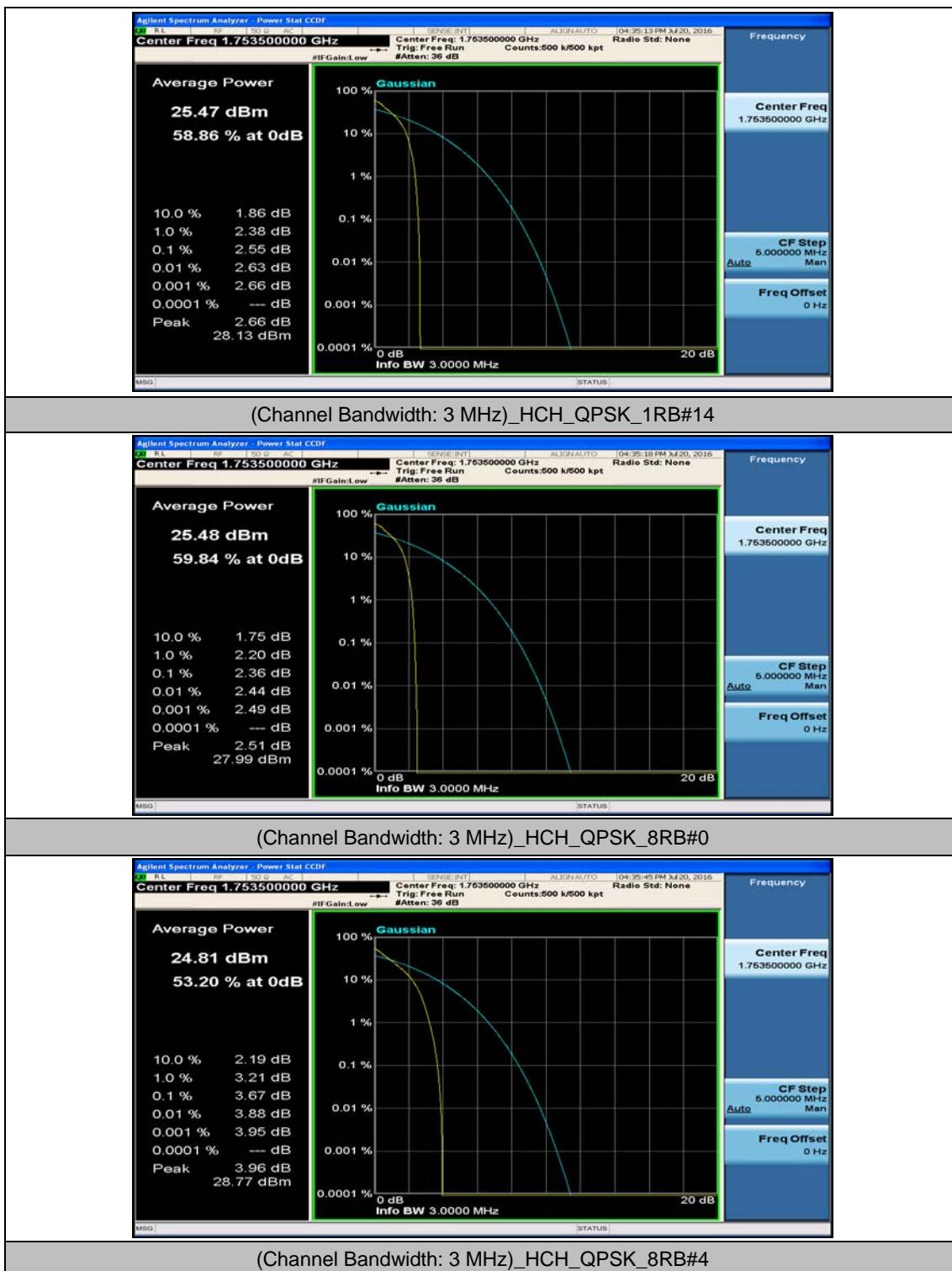


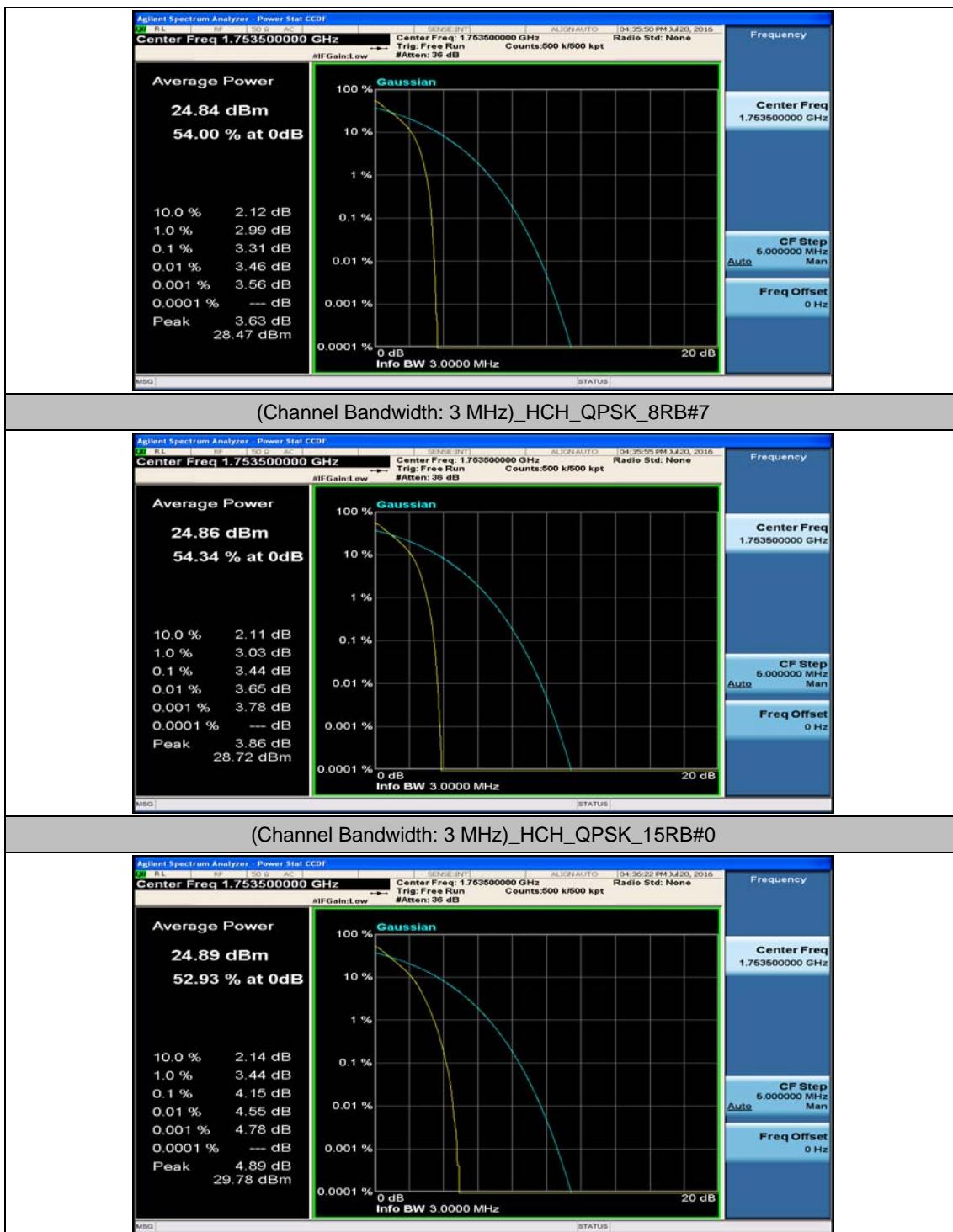


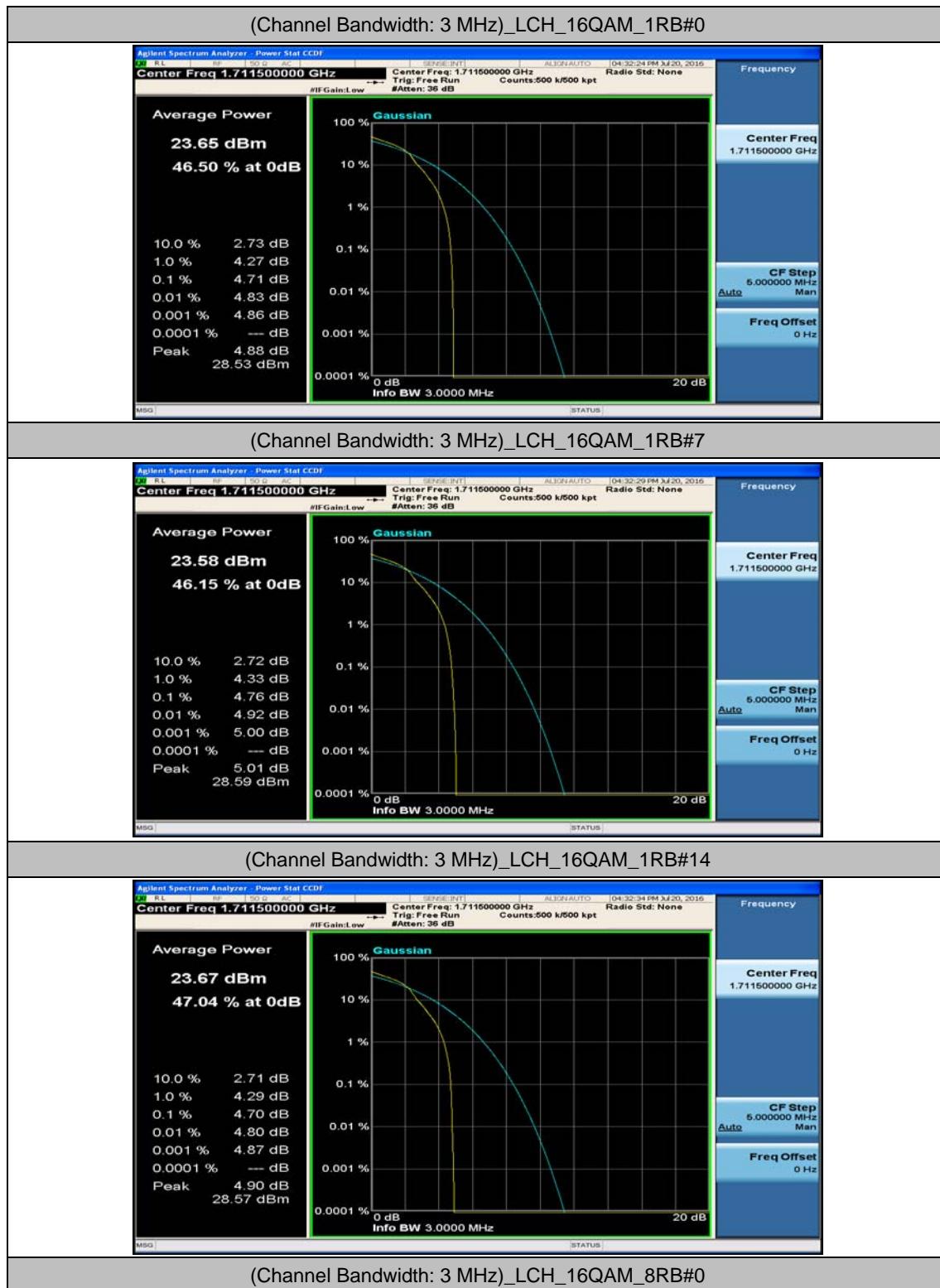
(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#14

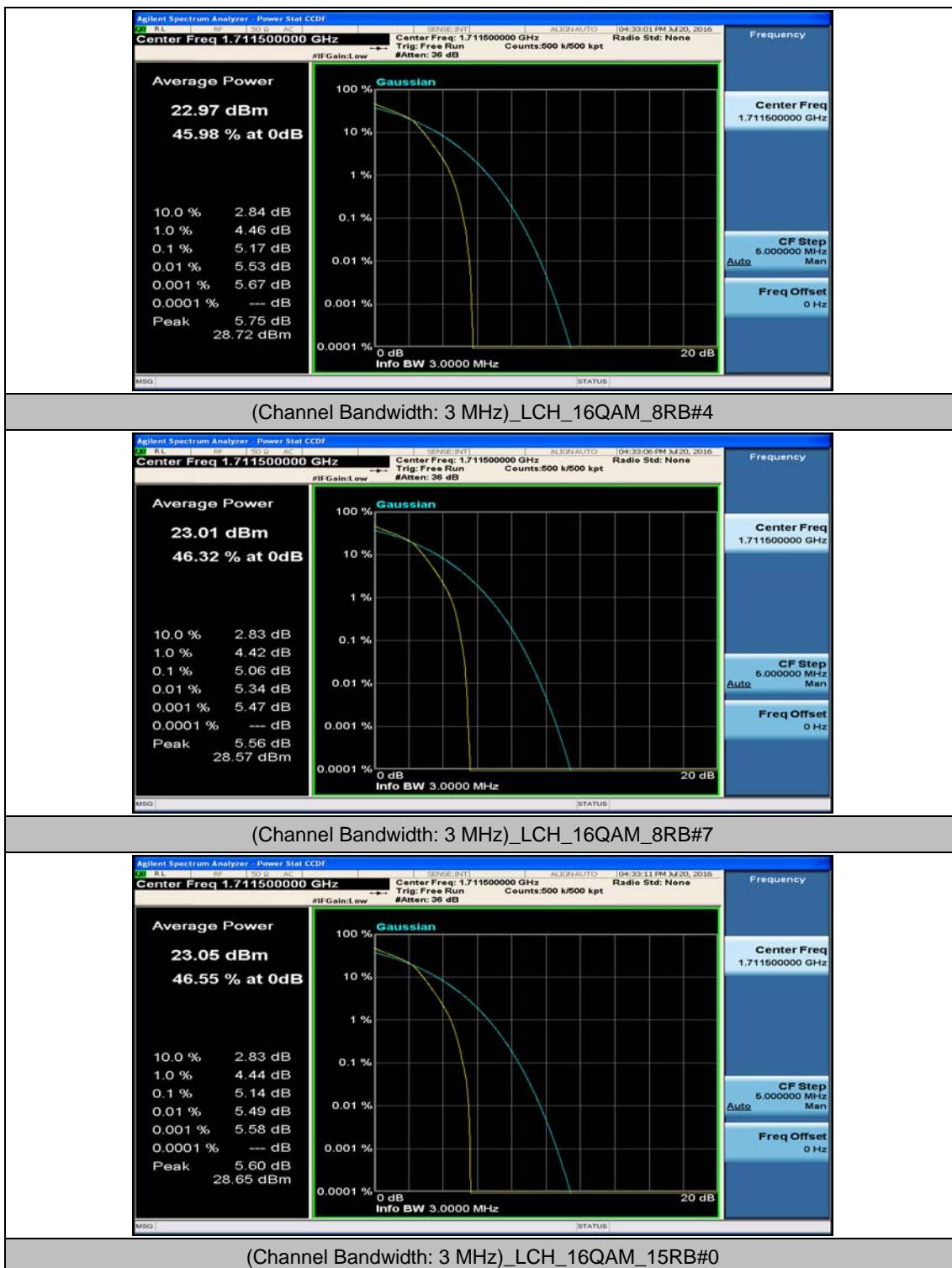


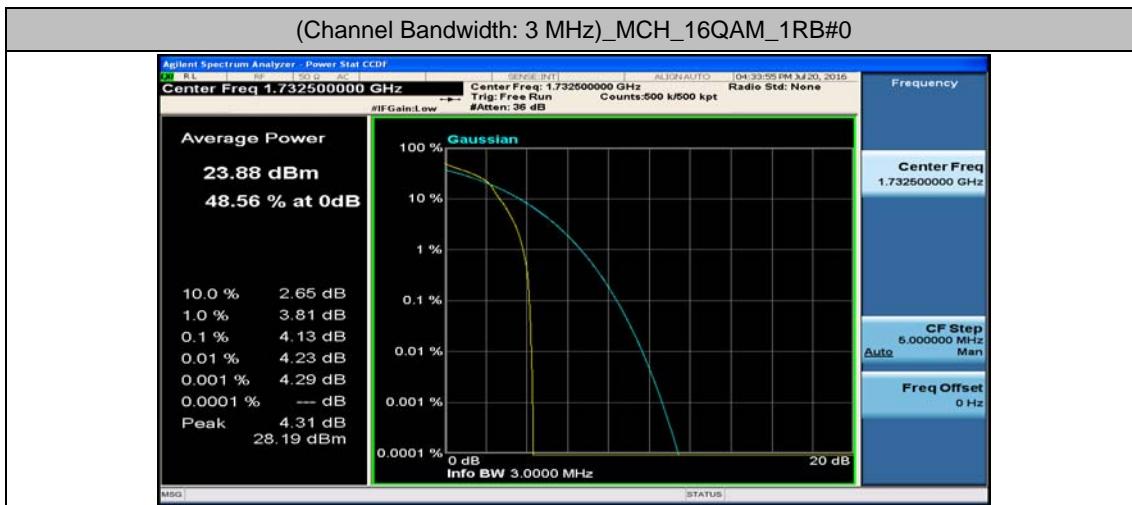
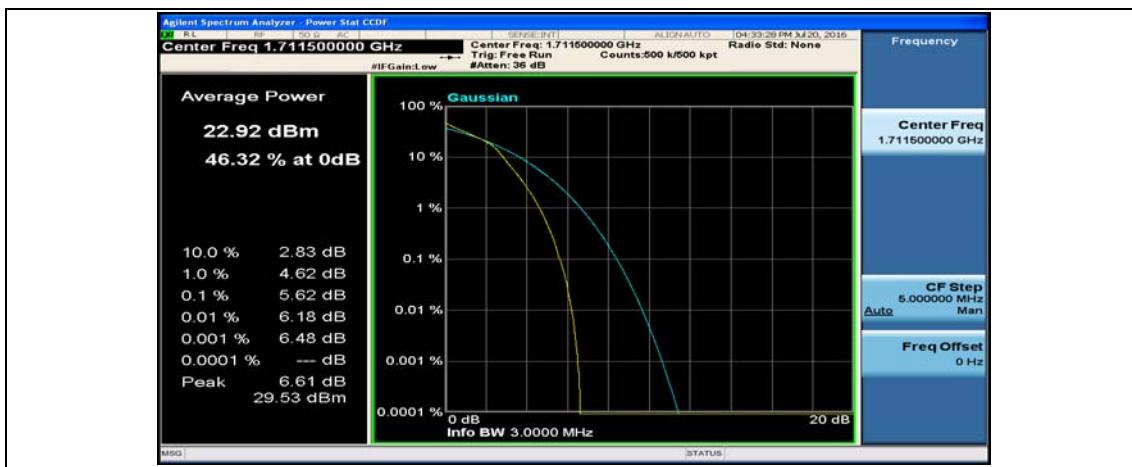




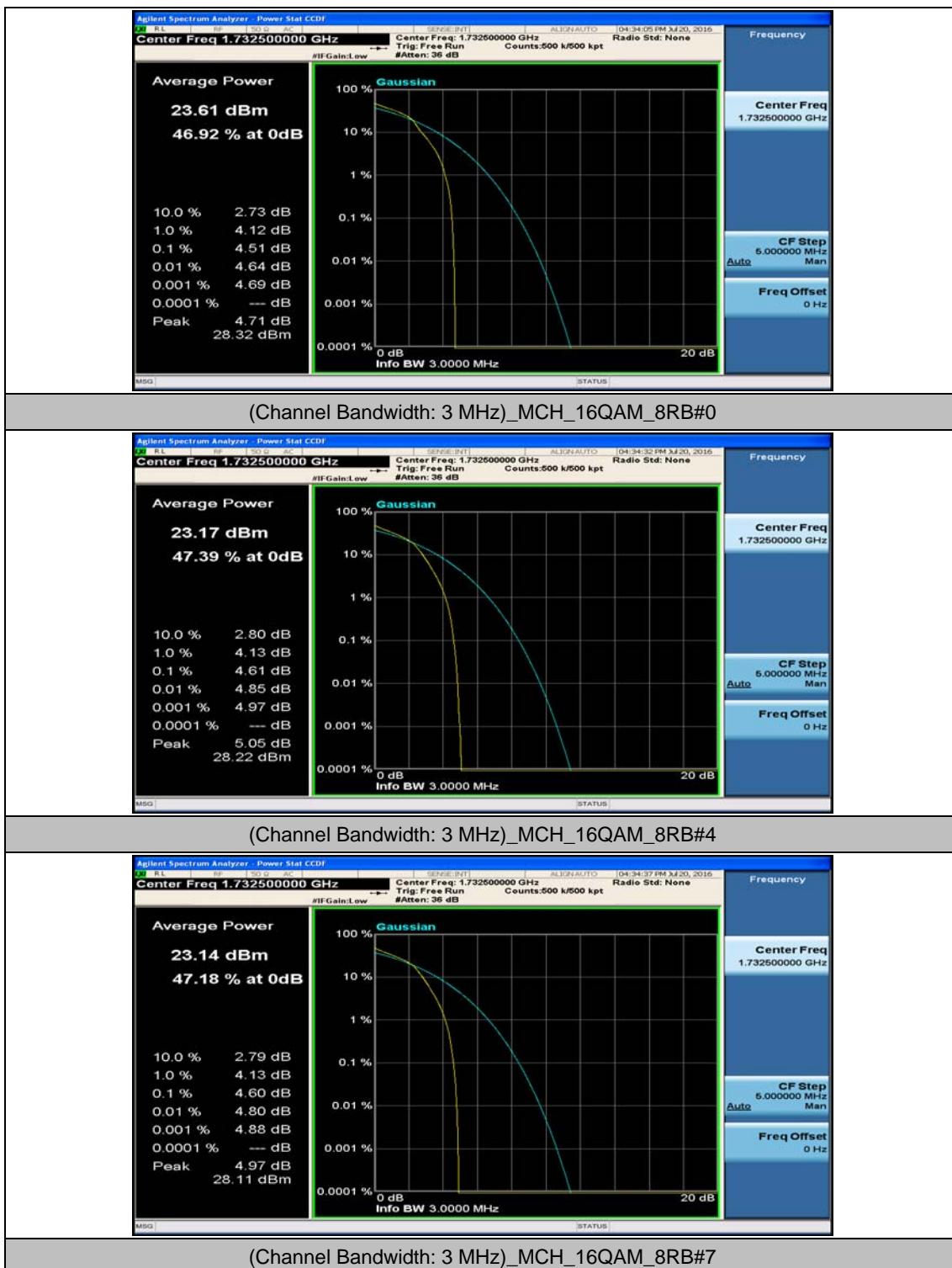


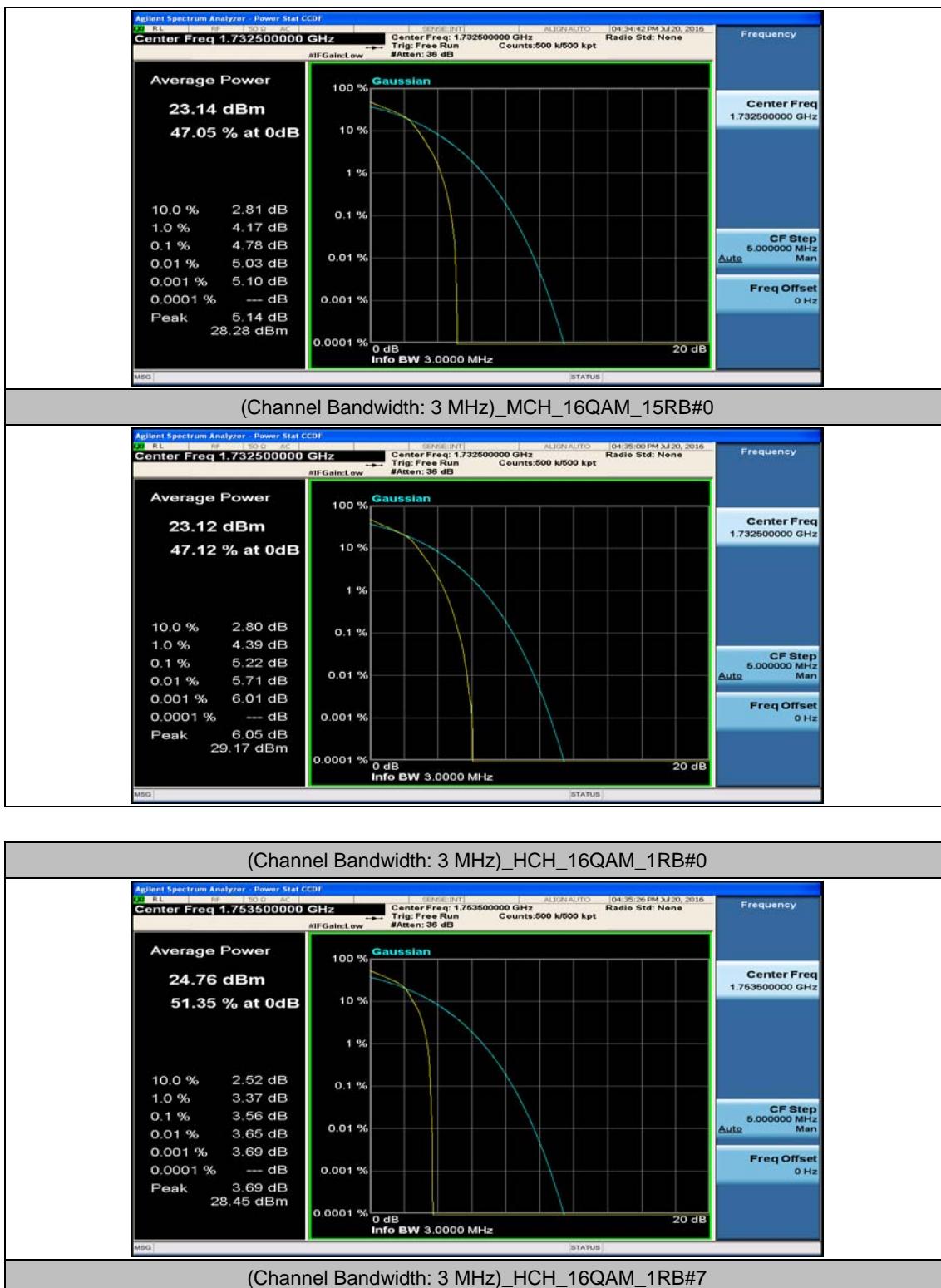


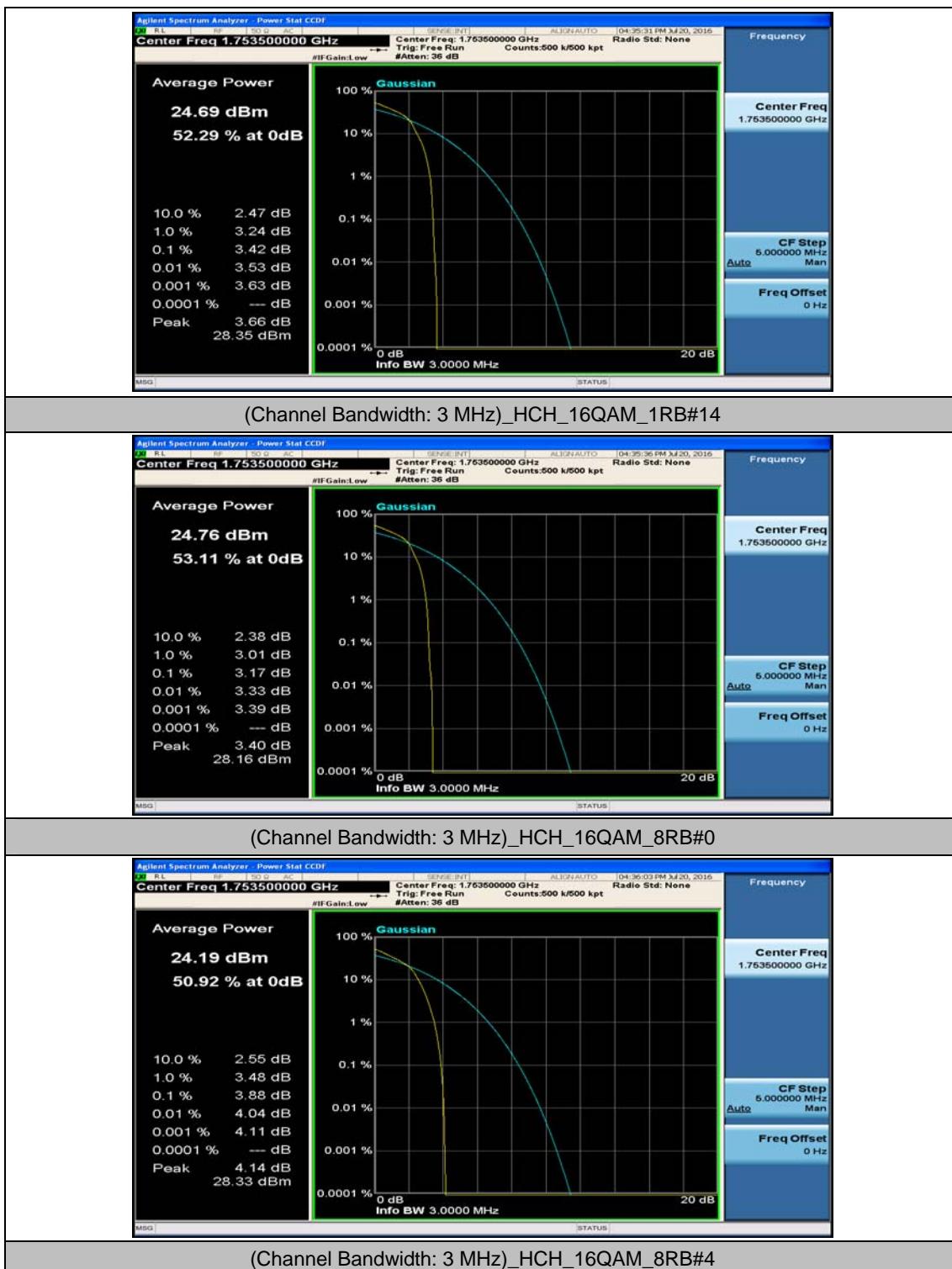


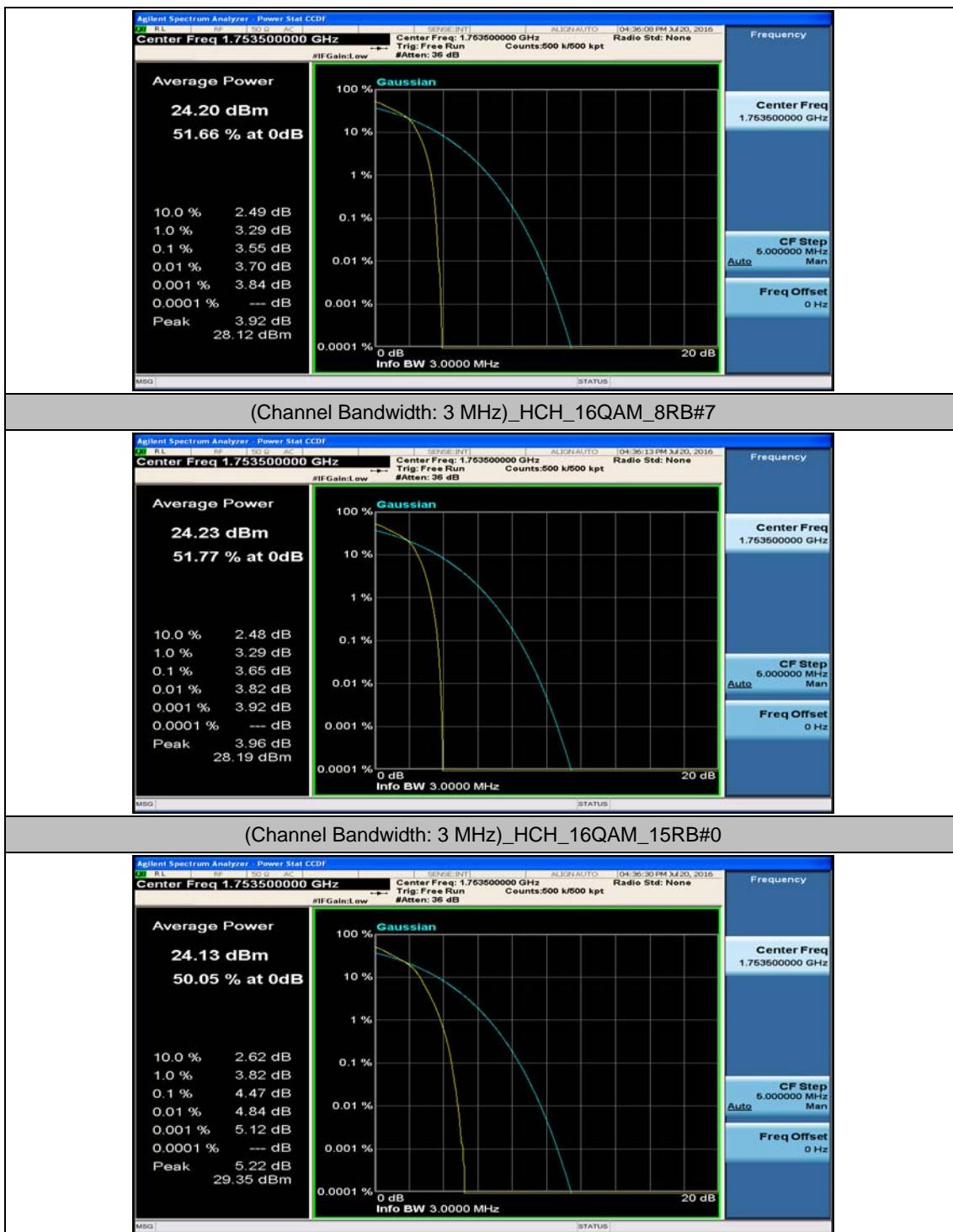


(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#14

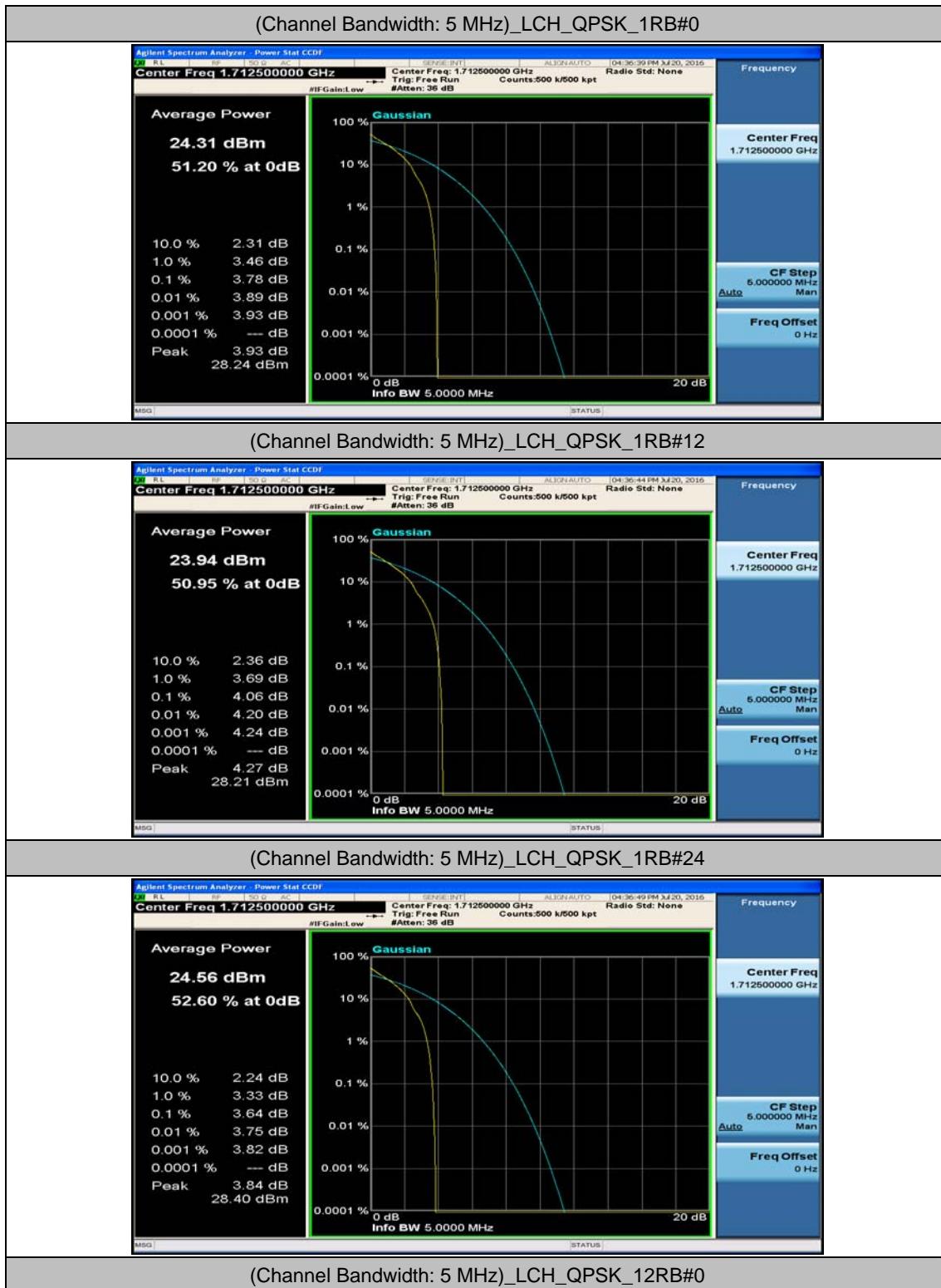


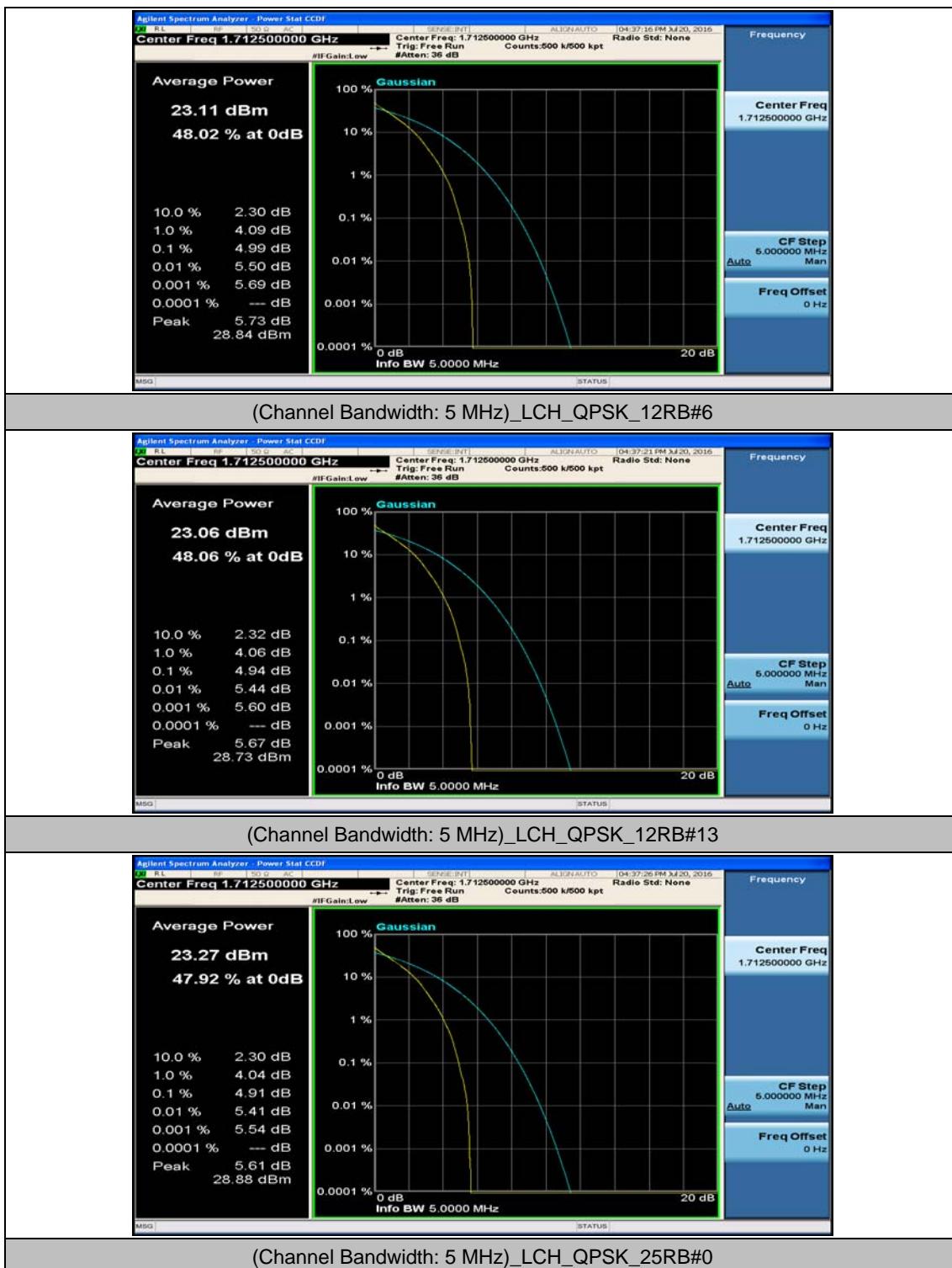


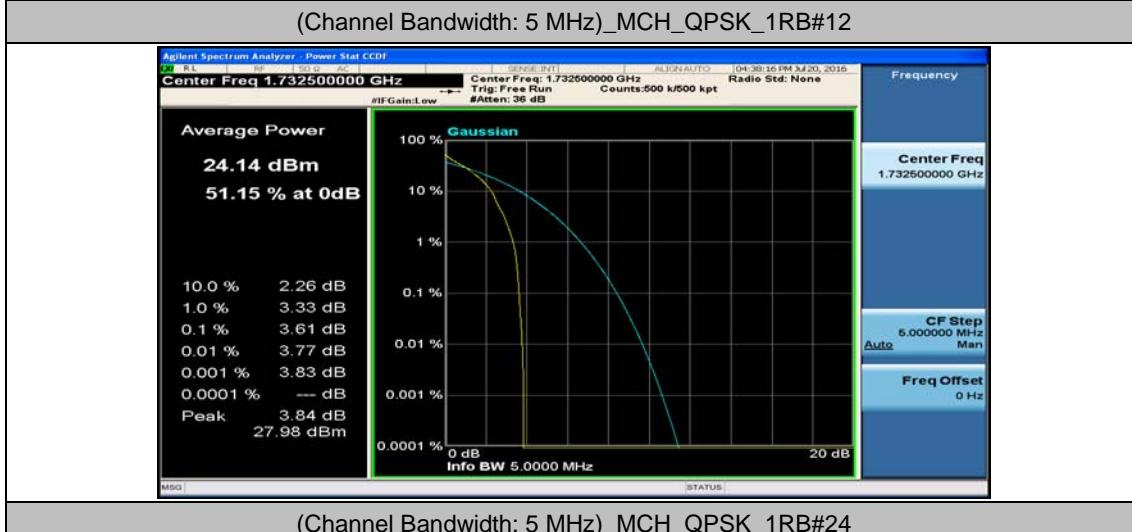
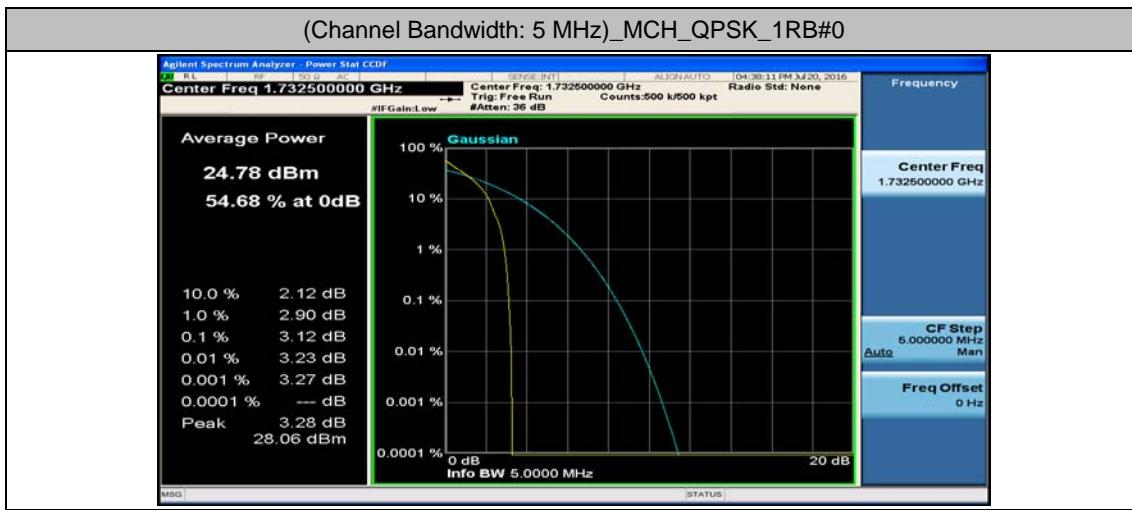
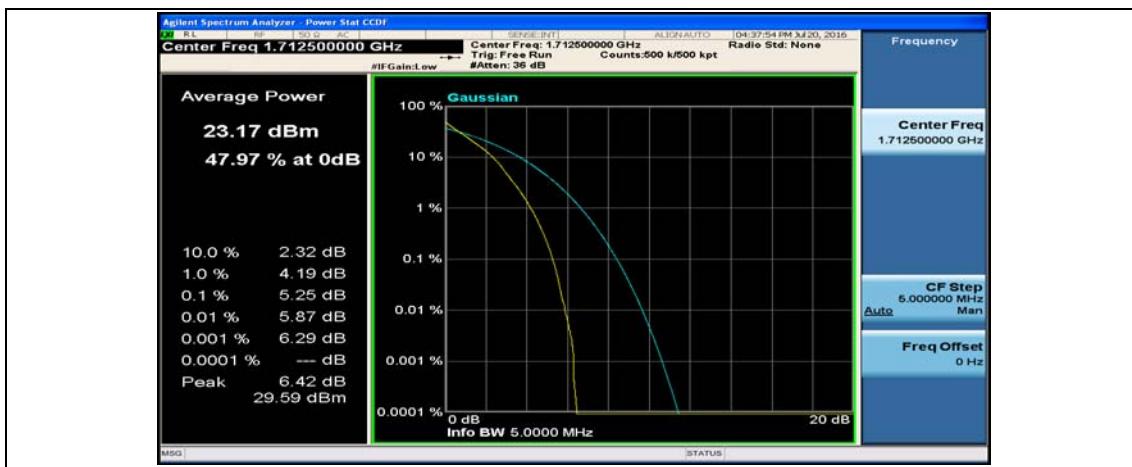




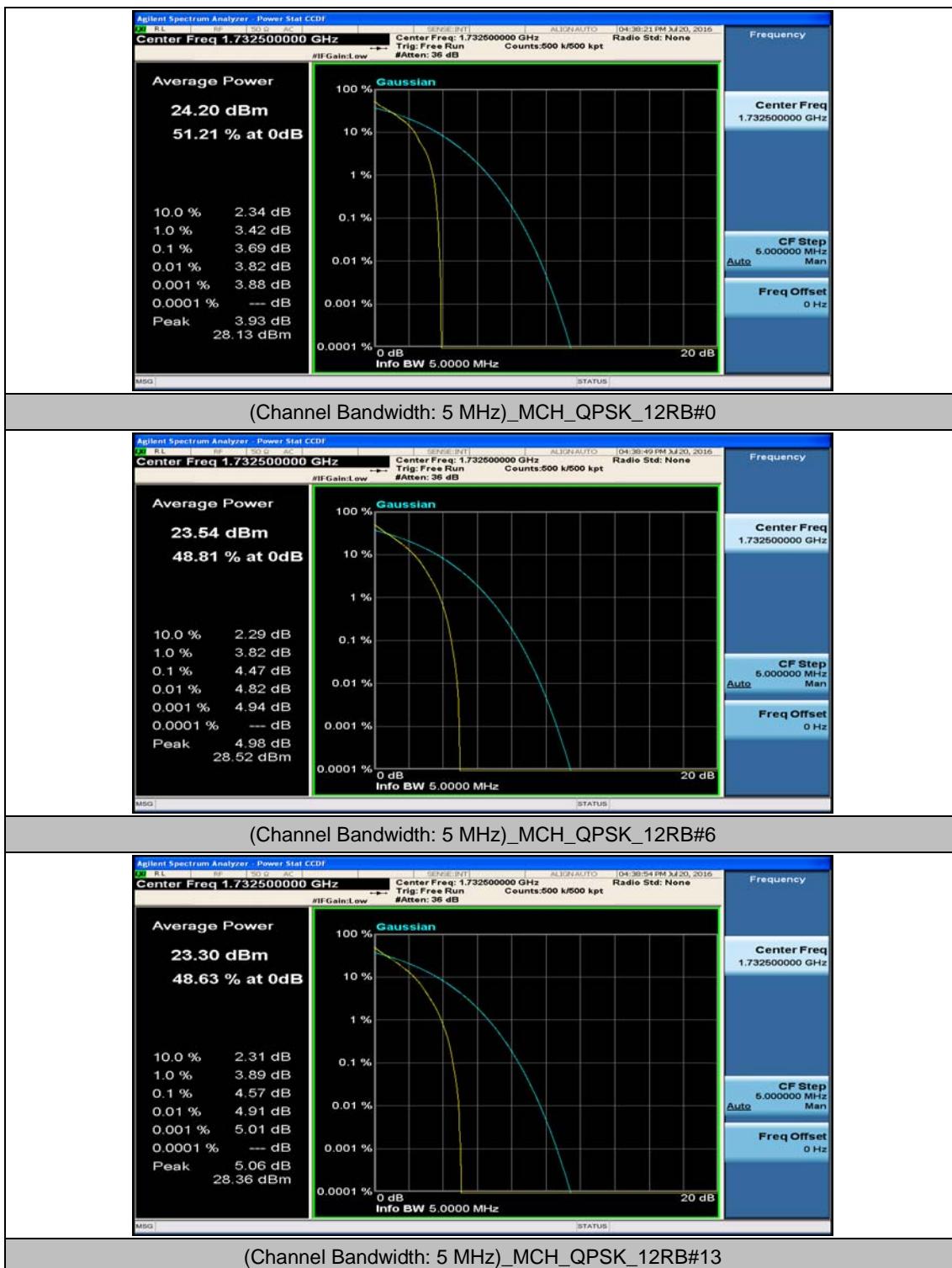
Channel Bandwidth: 5 MHz

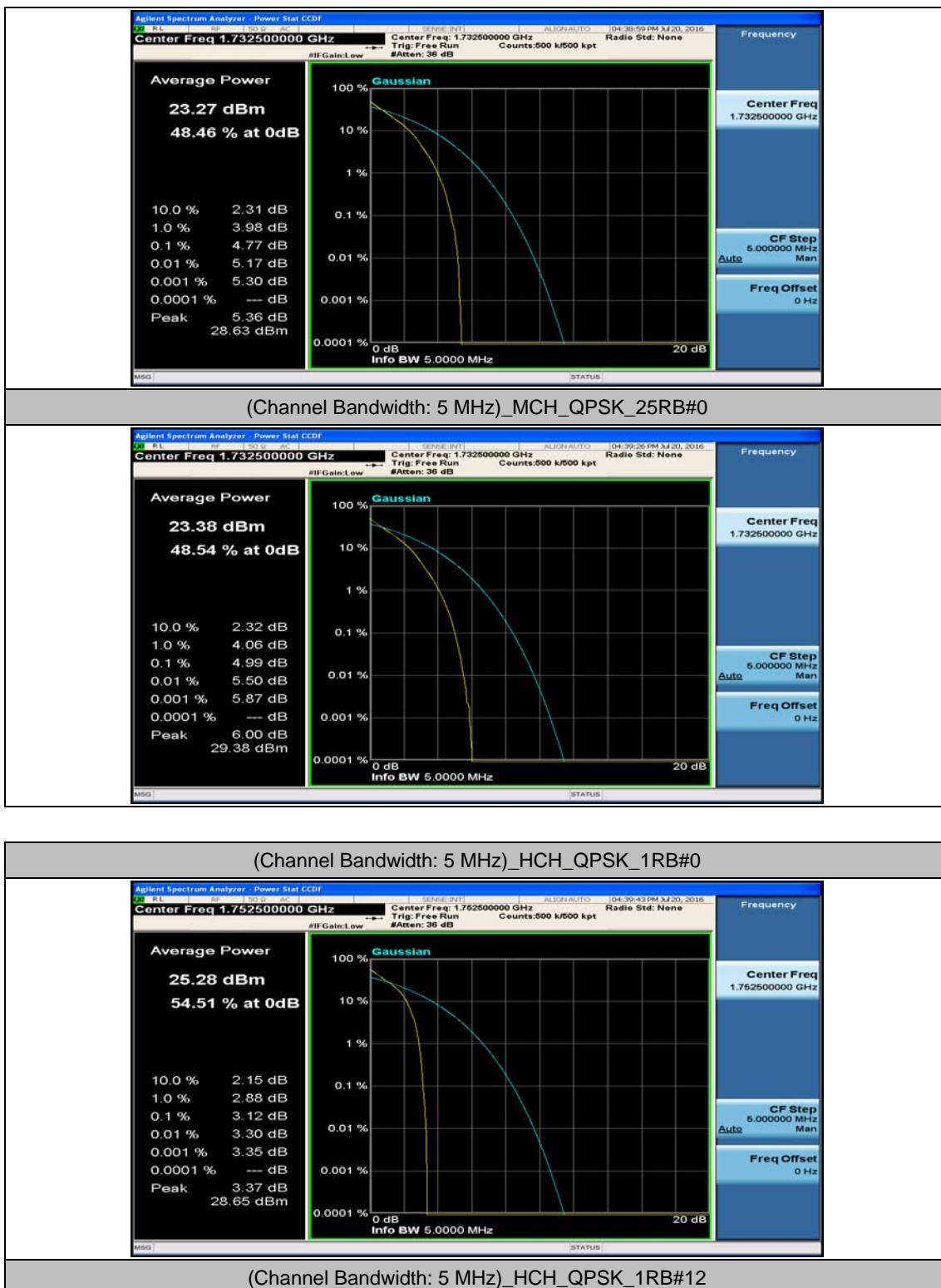


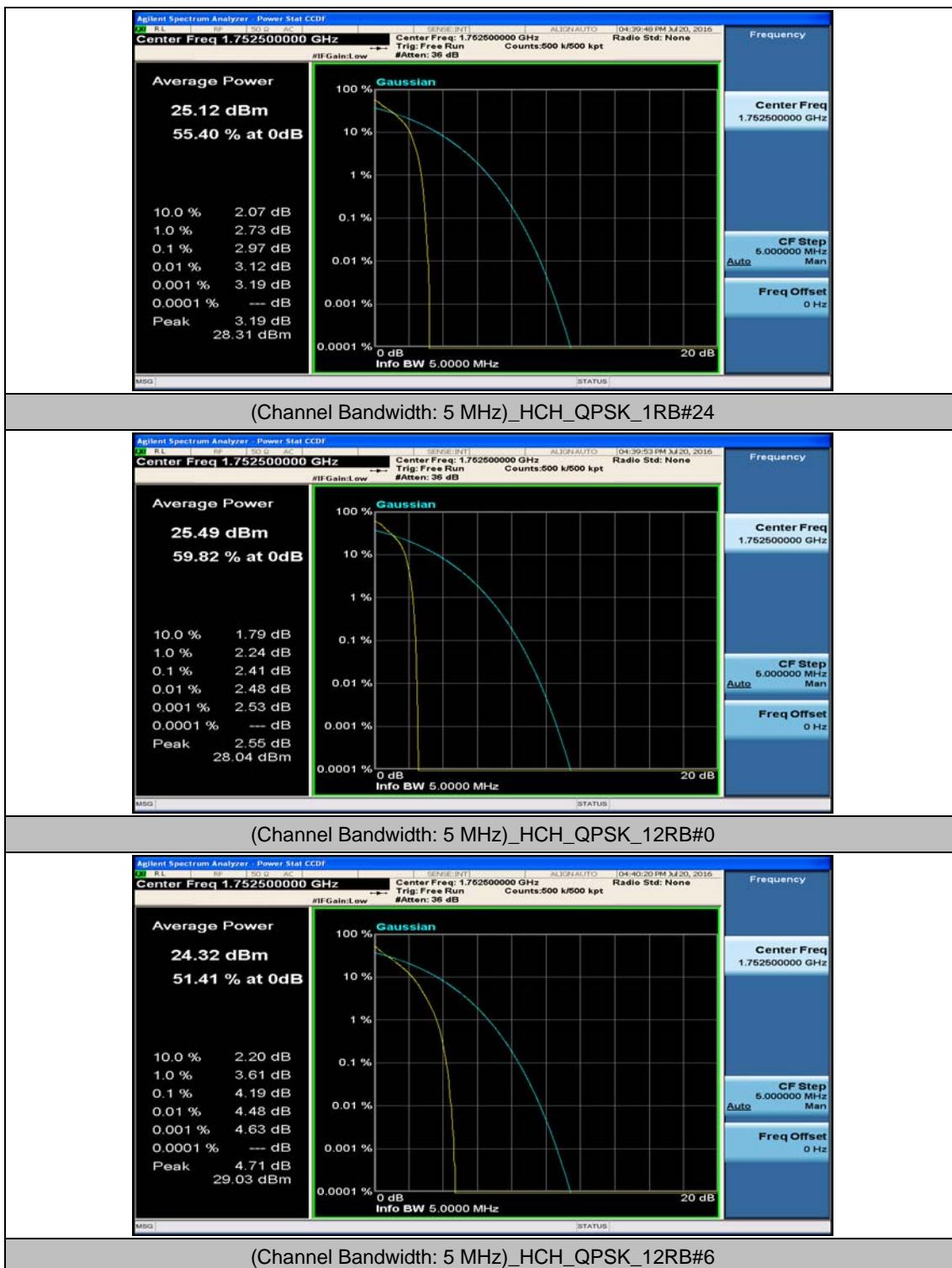


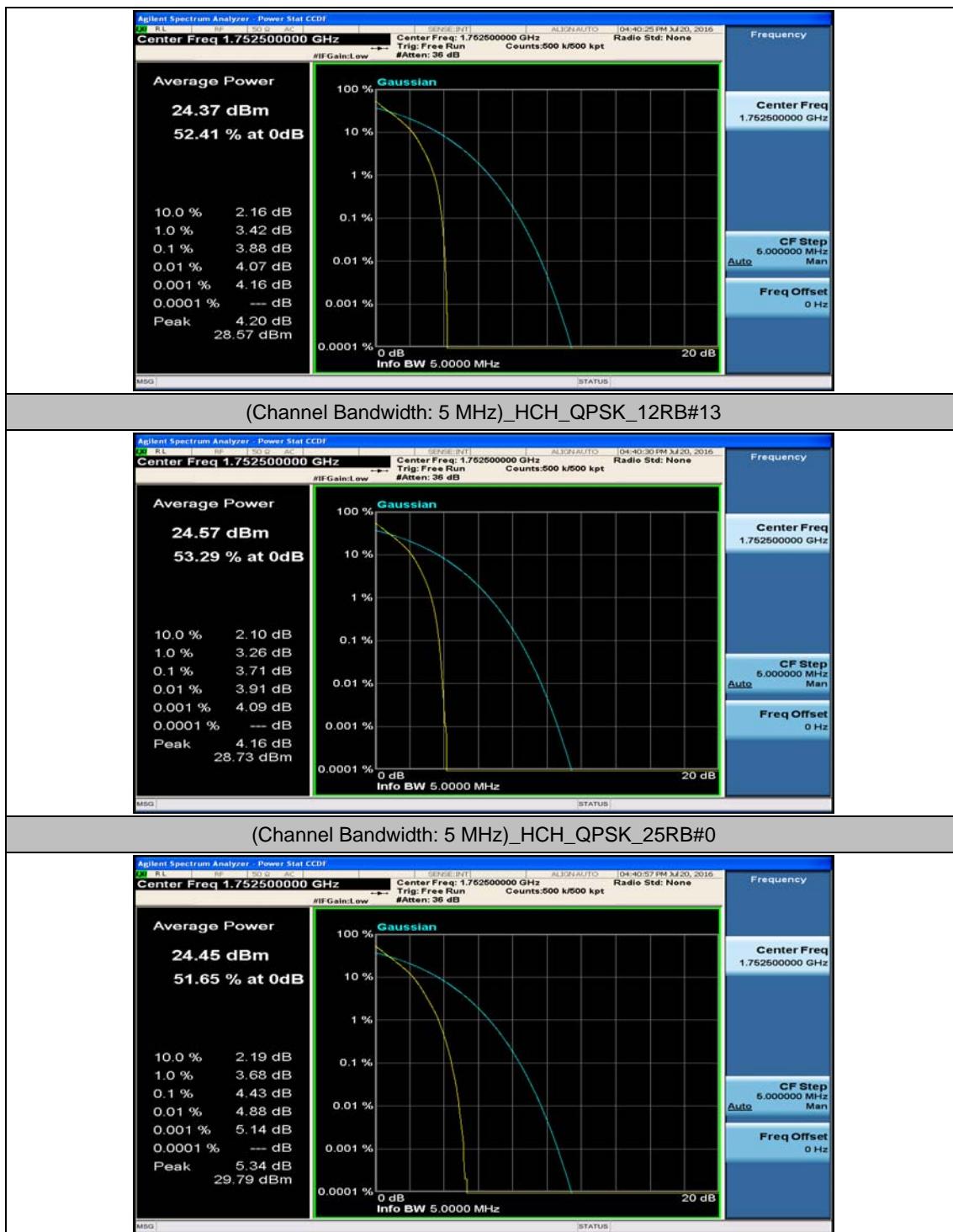


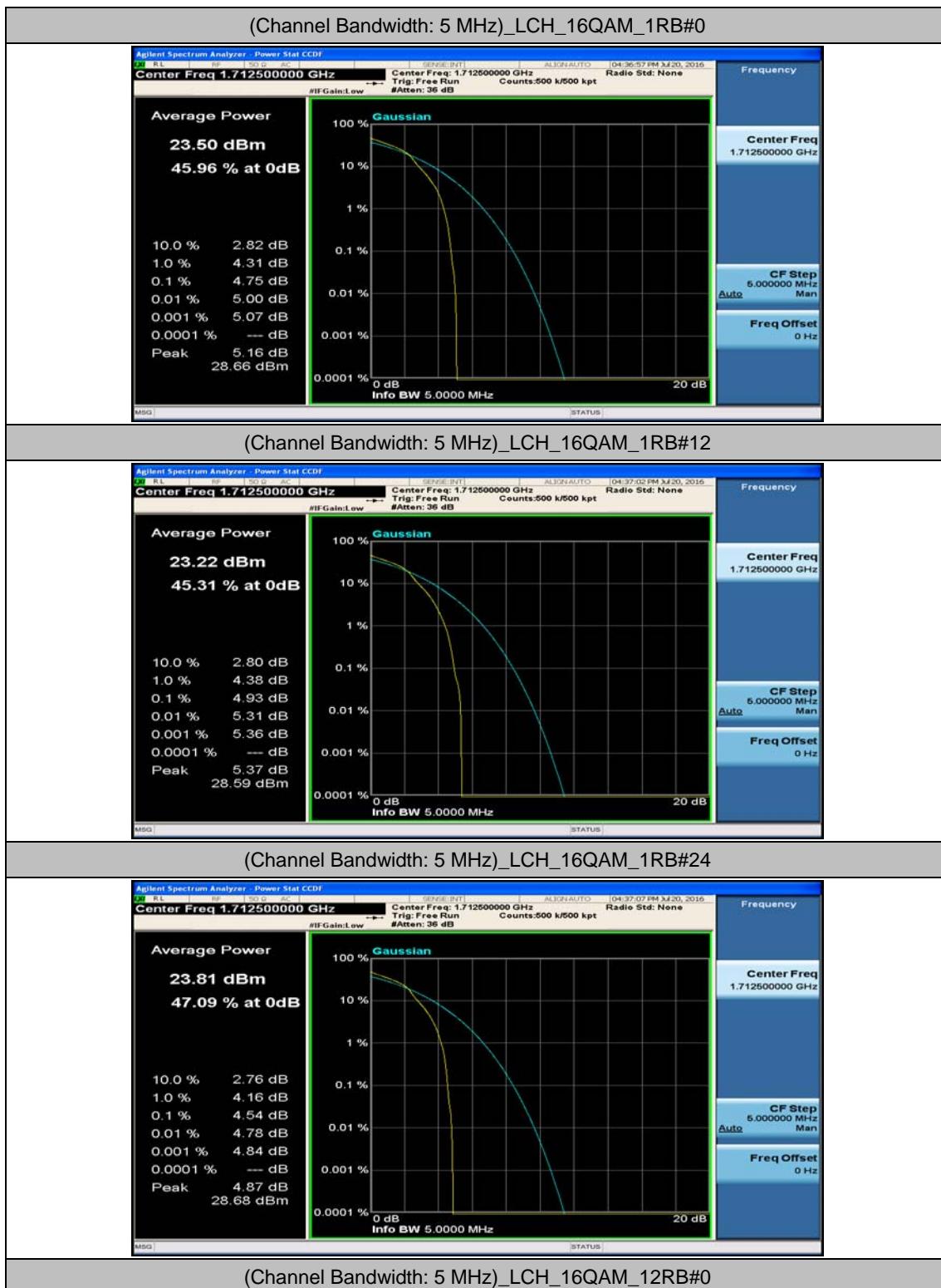
(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#24

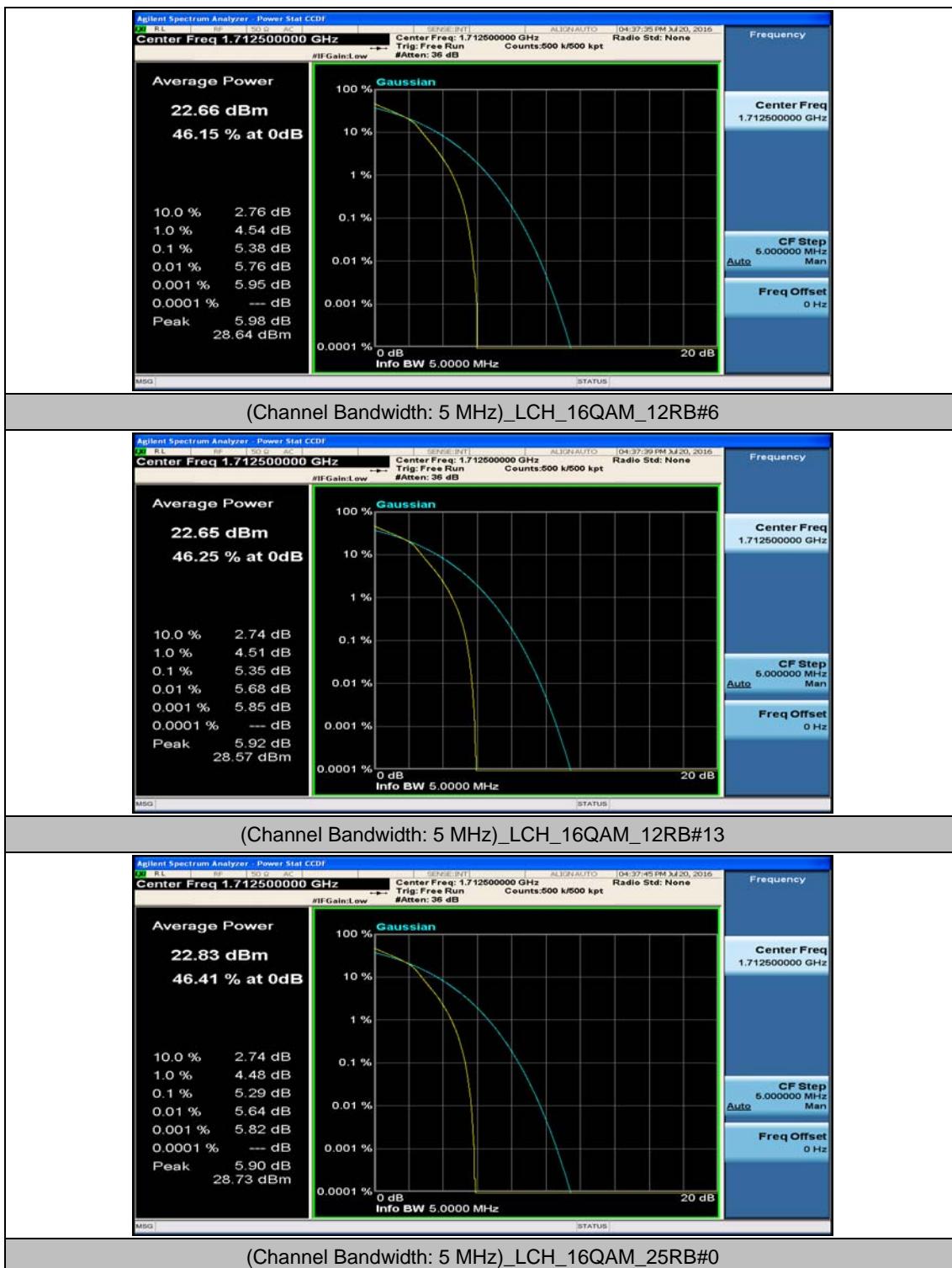


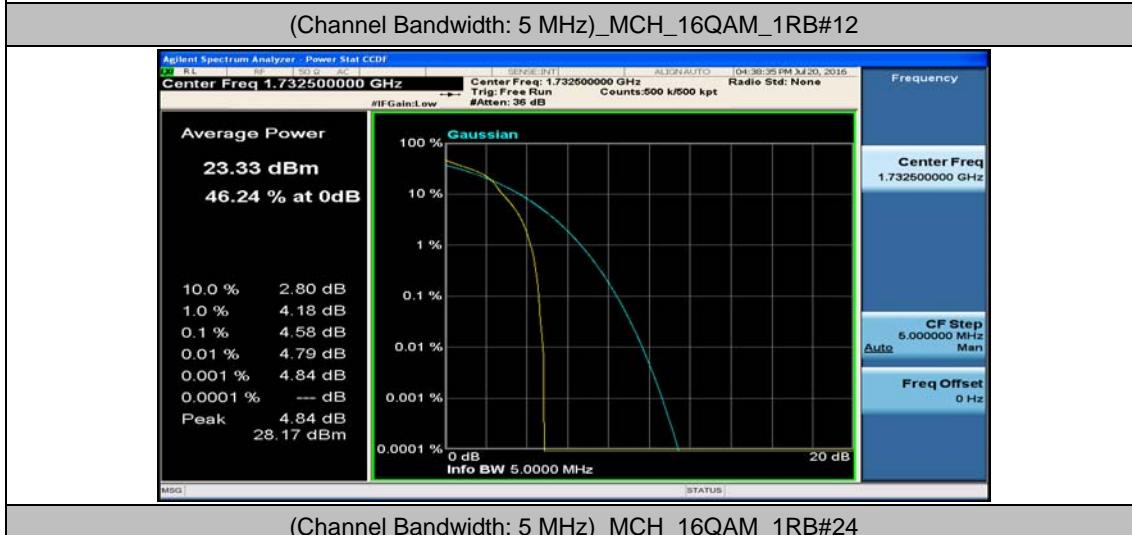
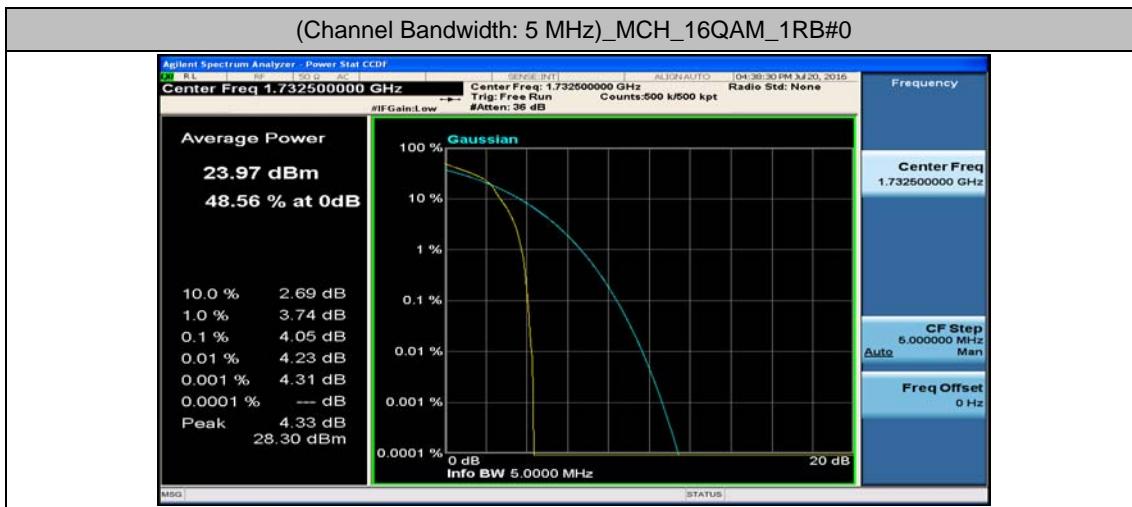
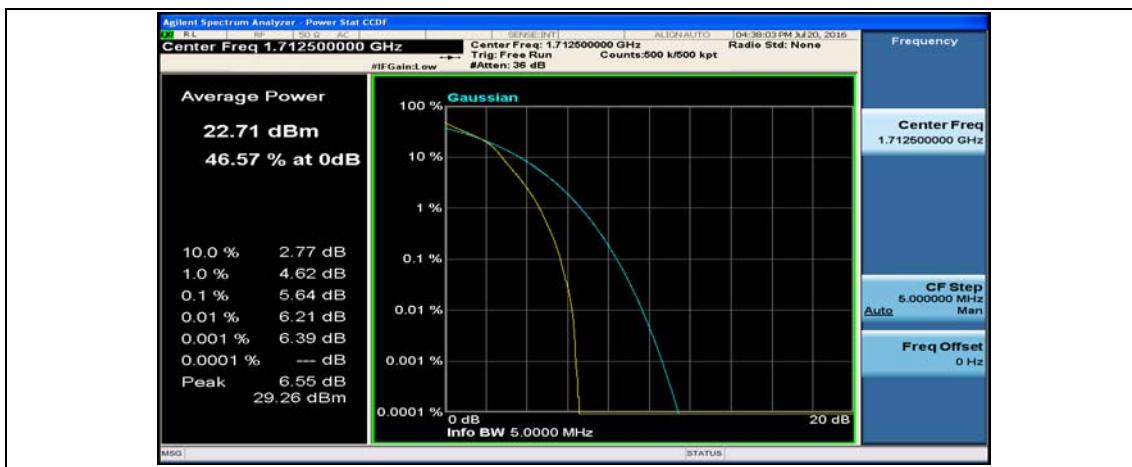












(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#24

