

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	23.28	PASS
		1	3	23.19	PASS
		1	5	23.26	PASS
		3	0	23.20	PASS
		3	2	23.21	PASS
		3	3	23.30	PASS
		6	0	22.32	PASS
	MCH	1	0	23.53	PASS
		1	3	23.48	PASS
		1	5	23.52	PASS
		3	0	23.55	PASS
		3	2	23.54	PASS
		3	3	23.60	PASS
		6	0	22.55	PASS
16QAM	HCH	1	0	23.76	PASS
		1	3	23.75	PASS
		1	5	23.69	PASS
		3	0	23.78	PASS
		3	2	23.69	PASS
		3	3	23.71	PASS
		6	0	22.75	PASS
	LCH	1	0	22.22	PASS
		1	3	22.20	PASS
		1	5	22.20	PASS
		3	0	22.29	PASS
		3	2	22.28	PASS
		3	3	22.29	PASS
		6	0	21.13	PASS
	MCH	1	0	22.46	PASS
		1	3	22.48	PASS
		1	5	22.53	PASS
		3	0	22.56	PASS

		3	2	22.53	PASS
		3	3	22.69	PASS
		6	0	21.52	PASS
HCH	HCH	1	0	22.79	PASS
		1	3	22.83	PASS
		1	5	22.84	PASS
		3	0	22.56	PASS
		3	2	22.53	PASS
		3	3	22.54	PASS
		6	0	21.84	PASS

Channel Bandwidth: 3 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	23.08	PASS
		1	7	23.12	PASS
		1	14	23.17	PASS
		8	0	22.24	PASS
		8	4	22.26	PASS
		8	7	22.16	PASS
		15	0	22.19	PASS
	MCH	1	0	23.44	PASS
		1	7	23.51	PASS
		1	14	23.50	PASS
		8	0	22.59	PASS
		8	4	22.53	PASS
		8	7	22.64	PASS
		15	0	22.54	PASS
	HCH	1	0	23.67	PASS
		1	7	23.67	PASS
		1	14	23.72	PASS
		8	0	22.77	PASS
		8	4	22.78	PASS
		8	7	22.74	PASS
		15	0	22.68	PASS
16QAM	LCH	1	0	22.11	PASS
		1	7	22.14	PASS
		1	14	22.13	PASS
		8	0	21.16	PASS
		8	4	21.21	PASS
		8	7	21.27	PASS
		15	0	21.14	PASS

		1	0	22.39	PASS
		1	7	22.57	PASS
		1	14	22.50	PASS
	MCH	8	0	21.57	PASS
		8	4	21.63	PASS
		8	7	21.60	PASS
		15	0	21.50	PASS
		1	0	22.63	PASS
	HCH	1	7	22.57	PASS
		1	14	22.76	PASS
		8	0	21.74	PASS
		8	4	21.72	PASS
		8	7	21.73	PASS
		15	0	21.68	PASS

Channel Bandwidth: 5 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	23.12	PASS
		1	12	23.16	PASS
		1	24	23.07	PASS
		12	0	22.23	PASS
		12	6	22.21	PASS
		12	13	22.26	PASS
		25	0	22.19	PASS
	MCH	1	0	23.48	PASS
		1	12	23.45	PASS
		1	24	23.64	PASS
		12	0	22.56	PASS
		12	6	22.54	PASS
		12	13	22.63	PASS
		25	0	22.40	PASS
	HCH	1	0	23.63	PASS
		1	12	23.77	PASS
		1	24	23.70	PASS
		12	0	22.68	PASS
		12	6	22.72	PASS
		12	13	22.75	PASS
		25	0	22.64	PASS
16QAM	LCH	1	0	22.09	PASS
		1	12	22.12	PASS
		1	24	22.02	PASS

		12	0	21.23	PASS
		12	6	21.26	PASS
		12	13	21.25	PASS
		25	0	21.08	PASS
MCH		1	0	22.40	PASS
		1	12	22.59	PASS
		1	24	22.51	PASS
		12	0	21.64	PASS
		12	6	21.68	PASS
		12	13	21.70	PASS
		25	0	21.44	PASS
HCH		1	0	22.36	PASS
		1	12	22.40	PASS
		1	24	22.34	PASS
		12	0	21.72	PASS
		12	6	21.63	PASS
		12	13	21.77	PASS
		25	0	21.64	PASS

Channel Bandwidth: 10 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	23.12	PASS
		1	24	23.03	PASS
		1	49	23.17	PASS
		25	0	22.20	PASS
		25	12	22.15	PASS
		25	25	22.09	PASS
		50	0	22.03	PASS
QPSK	MCH	1	0	23.41	PASS
		1	24	23.45	PASS
		1	49	23.66	PASS
		25	0	22.40	PASS
		25	12	22.44	PASS
		25	25	22.55	PASS
		50	0	22.29	PASS
QPSK	HCH	1	0	23.65	PASS
		1	24	23.63	PASS
		1	49	23.70	PASS
		25	0	22.67	PASS
		25	12	22.67	PASS
		25	25	22.63	PASS

		50	0	22.53	PASS
16QAM	LCH	1	0	22.13	PASS
		1	24	22.03	PASS
		1	49	22.14	PASS
		25	0	21.08	PASS
		25	12	21.16	PASS
		25	25	21.13	PASS
		50	0	21.02	PASS
	MCH	1	0	22.41	PASS
		1	24	22.53	PASS
		1	49	22.57	PASS
		25	0	21.37	PASS
		25	12	21.43	PASS
		25	25	21.57	PASS
		50	0	21.28	PASS
		1	0	22.53	PASS
HCH	HCH	1	24	22.67	PASS
		1	49	22.63	PASS
		25	0	21.70	PASS
		25	12	21.67	PASS
		25	25	21.59	PASS
		50	0	21.53	PASS
		1	0	21.53	PASS

Channel Bandwidth: 15 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	23.02	PASS
		1	37	23.01	PASS
		1	74	23.18	PASS
		37	0	22.05	PASS
		37	18	21.99	PASS
		37	38	22.08	PASS
		75	0	21.99	PASS
	MCH	1	0	23.30	PASS
		1	37	23.50	PASS
		1	74	23.67	PASS
		37	0	22.11	PASS
		37	18	22.24	PASS
		37	38	22.38	PASS
		75	0	22.13	PASS
	HCH	1	0	23.62	PASS
		1	37	23.57	PASS

		1	74	23.73	PASS
		37	0	22.50	PASS
		37	18	22.43	PASS
		37	38	22.46	PASS
		75	0	22.43	PASS
16QAM	LCH	1	0	22.04	PASS
		1	37	22.06	PASS
		1	74	22.23	PASS
		37	0	20.95	PASS
		37	18	20.98	PASS
		37	38	21.06	PASS
		75	0	20.82	PASS
	MCH	1	0	22.24	PASS
		1	37	22.37	PASS
		1	74	22.52	PASS
		37	0	21.16	PASS
		37	18	21.24	PASS
		37	38	21.37	PASS
		75	0	21.17	PASS
	HCH	1	0	22.63	PASS
		1	37	22.70	PASS
		1	74	22.65	PASS
		37	0	21.54	PASS
		37	18	21.46	PASS
		37	38	21.56	PASS
		75	0	21.44	PASS

Channel Bandwidth: 20 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	23.15	PASS
		1	49	23.24	PASS
		1	99	23.52	PASS
		50	0	22.07	PASS
		50	25	21.98	PASS
		50	50	22.00	PASS
		100	0	22.01	PASS
	MCH	1	0	23.31	PASS
		1	49	23.58	PASS
		1	99	23.83	PASS
		50	0	22.11	PASS
		50	25	22.31	PASS

		50	50	22.36	PASS
		100	0	22.30	PASS
16QAM	HCH	1	0	23.58	PASS
		1	49	23.72	PASS
		1	99	23.80	PASS
		50	0	22.44	PASS
		50	25	22.40	PASS
		50	50	22.41	PASS
		100	0	22.50	PASS
LCH	LCH	1	0	21.91	PASS
		1	49	22.03	PASS
		1	99	22.40	PASS
		50	0	20.88	PASS
		50	25	20.90	PASS
		50	50	20.93	PASS
		100	0	20.95	PASS
	MCH	1	0	22.09	PASS
		1	49	22.33	PASS
		1	99	22.60	PASS
		50	0	21.04	PASS
		50	25	21.30	PASS
		50	50	21.32	PASS
		100	0	21.20	PASS
HCH	HCH	1	0	22.67	PASS
		1	49	22.75	PASS
		1	99	22.65	PASS
		50	0	21.53	PASS
		50	25	21.52	PASS
		50	50	21.57	PASS
		100	0	21.50	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	3.96	<13	PASS
		1	3	3.88	<13	PASS
		1	5	3.85	<13	PASS
		3	0	4.1	<13	PASS
		3	2	3.96	<13	PASS
		3	3	3.97	<13	PASS
		6	0	5.08	<13	PASS
	MCH	1	0	4.61	<13	PASS
		1	3	4.62	<13	PASS
		1	5	4.64	<13	PASS
		3	0	4.95	<13	PASS
		3	2	4.88	<13	PASS
		3	3	4.91	<13	PASS
		6	0	5.67	<13	PASS
16QAM	LCH	1	0	4.8	<13	PASS
		1	3	4.82	<13	PASS
		1	5	4.71	<13	PASS
		3	0	5.15	<13	PASS
		3	2	5.11	<13	PASS
		3	3	5.1	<13	PASS
		6	0	5.7	<13	PASS
	MCH	1	0	5.22	<13	PASS
		1	3	5.02	<13	PASS
		1	5	4.98	<13	PASS
		3	0	5.08	<13	PASS
		3	2	4.99	<13	PASS
		3	3	4.99	<13	PASS
		6	0	6.01	<13	PASS

		3	2	5.83	<13	PASS
		3	3	5.82	<13	PASS
		6	0	6.63	<13	PASS
HCH		1	0	5.99	<13	PASS
		1	3	5.96	<13	PASS
		1	5	5.93	<13	PASS
		3	0	6.01	<13	PASS
		3	2	6.01	<13	PASS
		3	3	6.03	<13	PASS
		6	0	6.68	<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	3.93	<13	PASS
		1	7	3.74	<13	PASS
		1	14	3.6	<13	PASS
		8	0	4.91	<13	PASS
		8	4	4.71	<13	PASS
		8	7	4.75	<13	PASS
		15	0	5.14	<13	PASS
	MCH	1	0	4.72	<13	PASS
		1	7	4.73	<13	PASS
		1	14	4.66	<13	PASS
		8	0	5.66	<13	PASS
		8	4	5.62	<13	PASS
		8	7	5.58	<13	PASS
		15	0	5.69	<13	PASS
	HCH	1	0	4.79	<13	PASS
		1	7	4.75	<13	PASS
		1	14	4.69	<13	PASS
		8	0	5.73	<13	PASS
		8	4	5.71	<13	PASS
		8	7	5.71	<13	PASS
		15	0	5.88	<13	PASS
16QAM	LCH	1	0	5.12	<13	PASS
		1	7	4.91	<13	PASS
		1	14	4.71	<13	PASS
		8	0	5.68	<13	PASS
		8	4	5.56	<13	PASS

		8	7	5.51	<13	PASS
		15	0	5.98	<13	PASS
MCH	1	0	5.91	<13	PASS	
	1	7	5.9	<13	PASS	
	1	14	5.8	<13	PASS	
	8	0	6.44	<13	PASS	
	8	4	6.44	<13	PASS	
	8	7	6.39	<13	PASS	
	15	0	6.7	<13	PASS	
HCH	1	0	6.01	<13	PASS	
	1	7	5.94	<13	PASS	
	1	14	6.02	<13	PASS	
	8	0	6.44	<13	PASS	
	8	4	6.51	<13	PASS	
	8	7	6.45	<13	PASS	
	15	0	6.59	<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	3.87	<13	PASS
		1	12	3.53	<13	PASS
		1	24	3.37	<13	PASS
		12	0	4.75	<13	PASS
		12	6	4.58	<13	PASS
		12	13	4.46	<13	PASS
		25	0	5.03	<13	PASS
	MCH	1	0	4.61	<13	PASS
		1	12	4.67	<13	PASS
		1	24	4.55	<13	PASS
		12	0	5.58	<13	PASS
		12	6	5.57	<13	PASS
		12	13	5.55	<13	PASS
		25	0	5.67	<13	PASS
	HCH	1	0	4.88	<13	PASS
		1	12	4.81	<13	PASS
		1	24	4.8	<13	PASS
		12	0	5.62	<13	PASS
		12	6	5.7	<13	PASS
		12	13	5.67	<13	PASS

		25	0	5.79	<13	PASS
16QAM	LCH	1	0	5.2	<13	PASS
		1	12	4.85	<13	PASS
		1	24	4.67	<13	PASS
		12	0	5.68	<13	PASS
		12	6	5.47	<13	PASS
		12	13	5.34	<13	PASS
		25	0	5.85	<13	PASS
	MCH	1	0	5.8	<13	PASS
		1	12	5.86	<13	PASS
		1	24	5.81	<13	PASS
		12	0	6.5	<13	PASS
		12	6	6.53	<13	PASS
		12	13	6.43	<13	PASS
		25	0	6.56	<13	PASS
	HCH	1	0	5.88	<13	PASS
		1	12	5.93	<13	PASS
		1	24	5.63	<13	PASS
		12	0	6.72	<13	PASS
		12	6	6.63	<13	PASS
		12	13	6.73	<13	PASS
		25	0	6.62	<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	3.92	<13	PASS
		1	24	3.34	<13	PASS
		1	49	3.39	<13	PASS
		25	0	4.78	<13	PASS
		25	12	4.52	<13	PASS
		25	25	4.64	<13	PASS
		50	0	5	<13	PASS
	MCH	1	0	4.46	<13	PASS
		1	24	4.69	<13	PASS
		1	49	4.78	<13	PASS
		25	0	5.62	<13	PASS
		25	12	5.71	<13	PASS
		25	25	5.7	<13	PASS
		50	0	5.7	<13	PASS

		1	0	4.45	<13	PASS
	HCH	1	24	4.62	<13	PASS
		1	49	4.64	<13	PASS
		25	0	5.62	<13	PASS
		25	12	5.73	<13	PASS
		25	25	5.77	<13	PASS
		50	0	5.74	<13	PASS
		1	0	5.07	<13	PASS
	LCH	1	24	4.52	<13	PASS
		1	49	4.53	<13	PASS
		25	0	5.66	<13	PASS
		25	12	5.4	<13	PASS
		25	25	5.39	<13	PASS
		50	0	5.81	<13	PASS
		1	0	5.58	<13	PASS
	MCH	1	24	5.92	<13	PASS
		1	49	6.02	<13	PASS
		25	0	6.52	<13	PASS
		25	12	6.53	<13	PASS
		25	25	6.52	<13	PASS
		50	0	6.5	<13	PASS
		1	0	5.7	<13	PASS
	HCH	1	24	5.83	<13	PASS
		1	49	5.95	<13	PASS
		25	0	6.44	<13	PASS
		25	12	6.54	<13	PASS
		25	25	6.61	<13	PASS
		50	0	6.53	<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	4.97	<13	PASS
		1	37	3.3	<13	PASS
		1	74	5.1	<13	PASS
		37	0	4.49	<13	PASS
		37	18	4.83	<13	PASS
		37	38	4.69	<13	PASS
		75	0	4.84	<13	PASS
	MCH	1	0	5.37	<13	PASS

	16QAM	HCH	1	37	4.7	<13	PASS
			1	74	5.56	<13	PASS
			37	0	4.94	<13	PASS
			37	18	5.7	<13	PASS
			37	38	5.05	<13	PASS
			75	0	5	<13	PASS
		LCH	1	0	5.51	<13	PASS
			1	37	4.63	<13	PASS
			1	74	5.6	<13	PASS
			37	0	4.86	<13	PASS
			37	18	5.69	<13	PASS
			37	38	5.01	<13	PASS
			75	0	4.96	<13	PASS
		MCH	1	0	5.82	<13	PASS
			1	37	4.43	<13	PASS
			1	74	5.88	<13	PASS
			37	0	5.74	<13	PASS
			37	18	5.61	<13	PASS
			37	38	5.91	<13	PASS
			75	0	6.07	<13	PASS
		HCH	1	0	6.3	<13	PASS
			1	37	5.94	<13	PASS
			1	74	6.43	<13	PASS
			37	0	6.21	<13	PASS
			37	18	6.55	<13	PASS
			37	38	6.3	<13	PASS
			75	0	6.39	<13	PASS
		LCH	1	0	6.55	<13	PASS
			1	37	5.82	<13	PASS
			1	74	6.83	<13	PASS
			37	0	6.12	<13	PASS
			37	18	6.58	<13	PASS
			37	38	6.25	<13	PASS
			75	0	6.37	<13	PASS

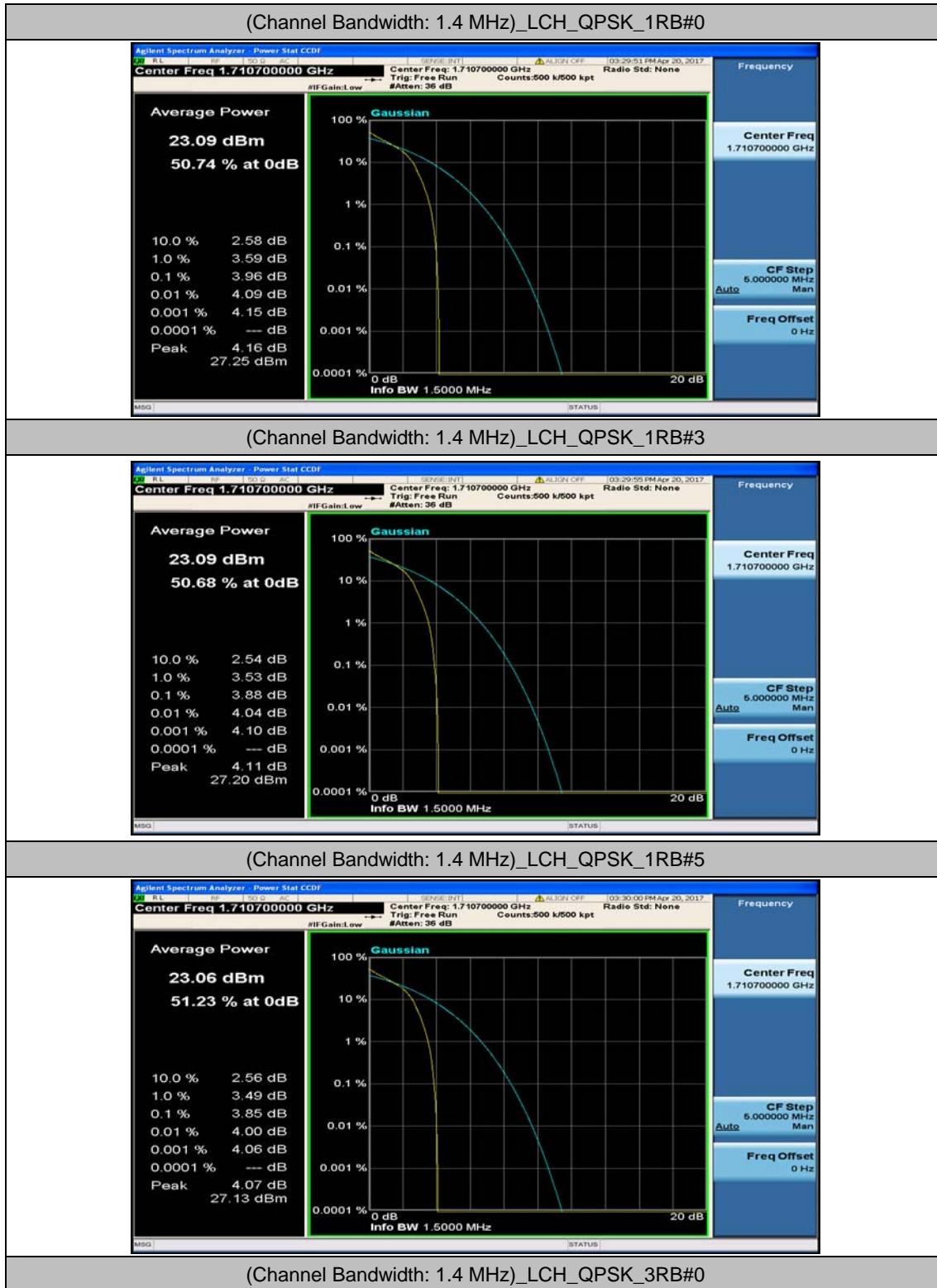
Channel Bandwidth: 20 MHz

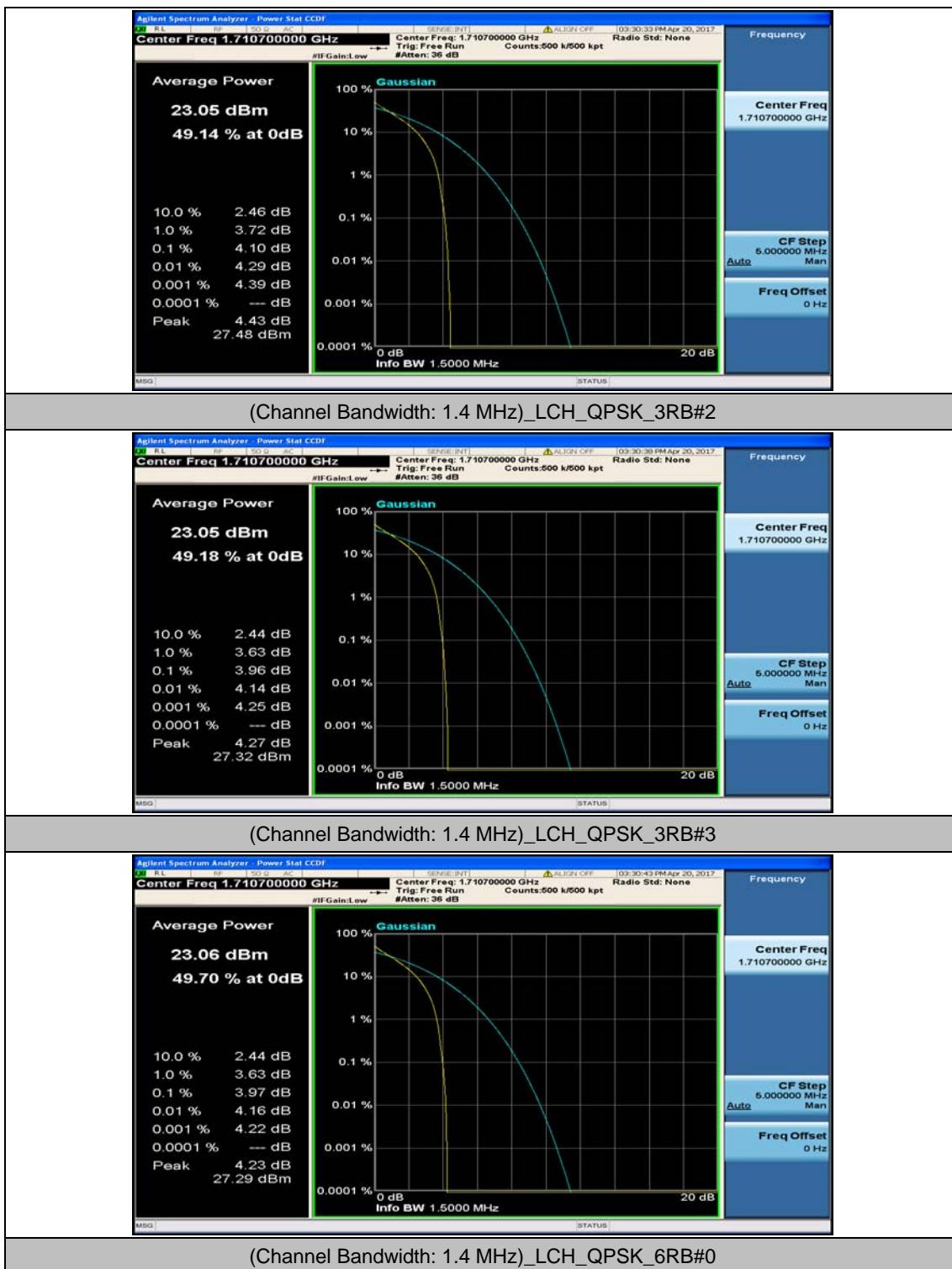
Channel Bandwidth: 20 MHz							
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict	
		Size	Offset				
QPSK	LCH	1	0	4.37	<13	PASS	
		1	49	3.41	<13	PASS	

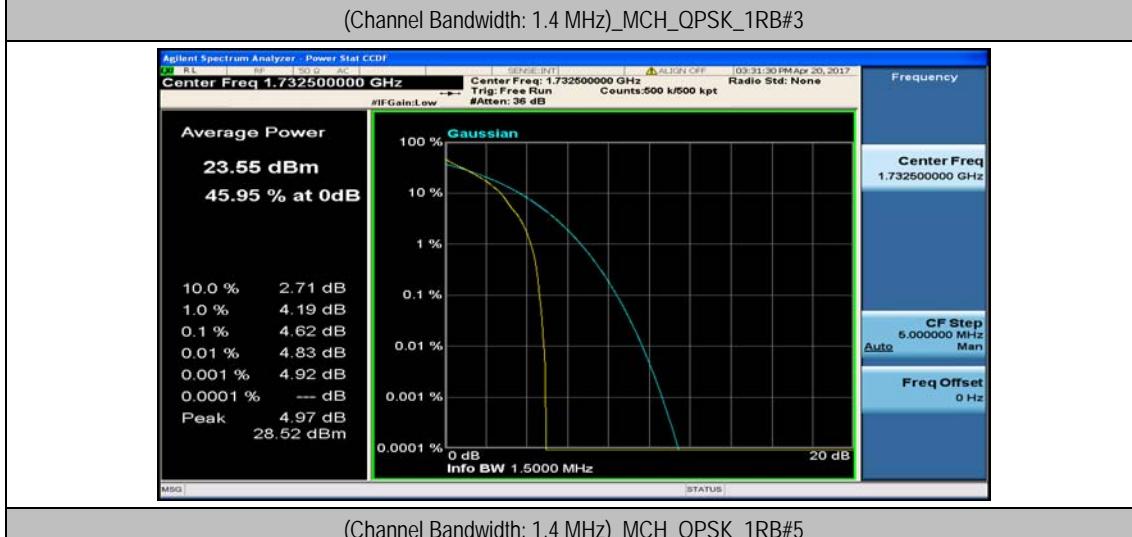
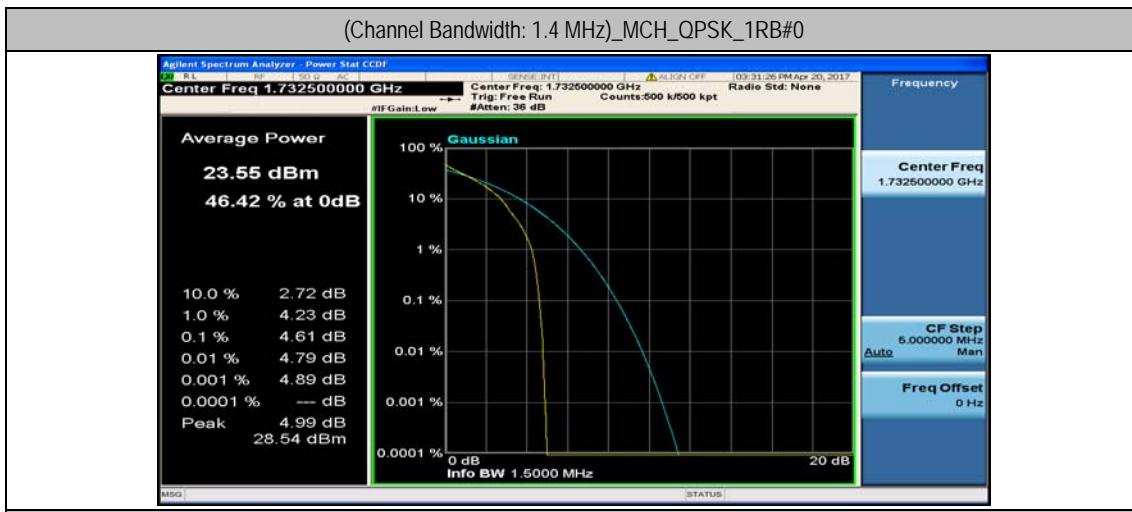
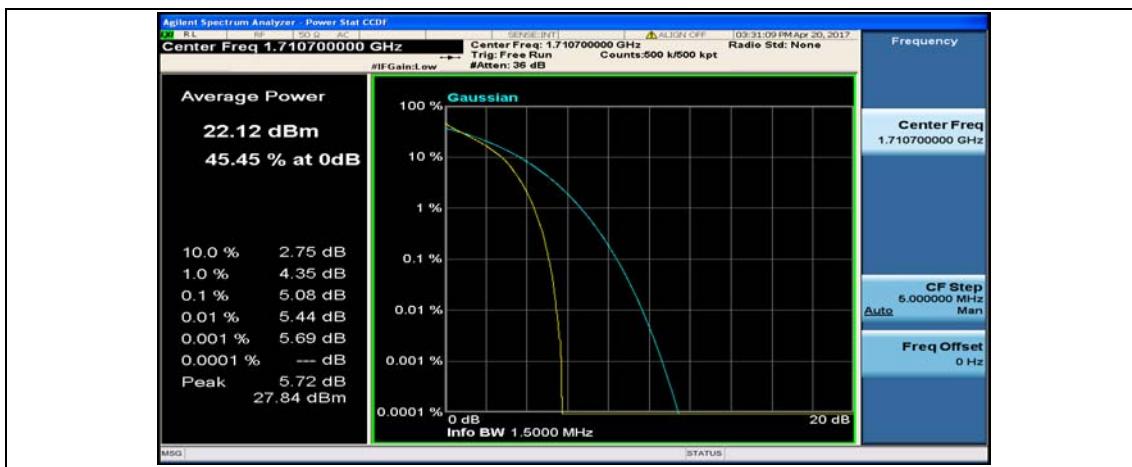
		1	99	2.84	<13	PASS
		50	0	5.46	<13	PASS
		50	25	5.18	<13	PASS
		50	50	5.79	<13	PASS
		100	0	5.71	<13	PASS
	MCH	1	0	2.41	<13	PASS
		1	49	4.66	<13	PASS
		1	99	2.32	<13	PASS
		50	0	5.72	<13	PASS
		50	25	5.7	<13	PASS
		50	50	5.98	<13	PASS
		100	0	5.74	<13	PASS
	HCH	1	0	2.42	<13	PASS
		1	49	4.53	<13	PASS
		1	99	2.61	<13	PASS
		50	0	5.56	<13	PASS
		50	25	5.72	<13	PASS
		50	50	5.95	<13	PASS
		100	0	5.68	<13	PASS
	LCH	1	0	3.28	<13	PASS
		1	49	4.51	<13	PASS
		1	99	2.32	<13	PASS
		50	0	6.43	<13	PASS
		50	25	5.96	<13	PASS
		50	50	6.65	<13	PASS
		100	0	6.75	<13	PASS
	MCH	1	0	2.39	<13	PASS
		1	49	5.89	<13	PASS
		1	99	2.33	<13	PASS
		50	0	6.77	<13	PASS
		50	25	6.59	<13	PASS
		50	50	6.9	<13	PASS
		100	0	6.9	<13	PASS
	HCH	1	0	2.46	<13	PASS
		1	49	5.51	<13	PASS
		1	99	2.42	<13	PASS
		50	0	6.69	<13	PASS
		50	25	6.46	<13	PASS
		50	50	6.77	<13	PASS
		100	0	6.79	<13	PASS

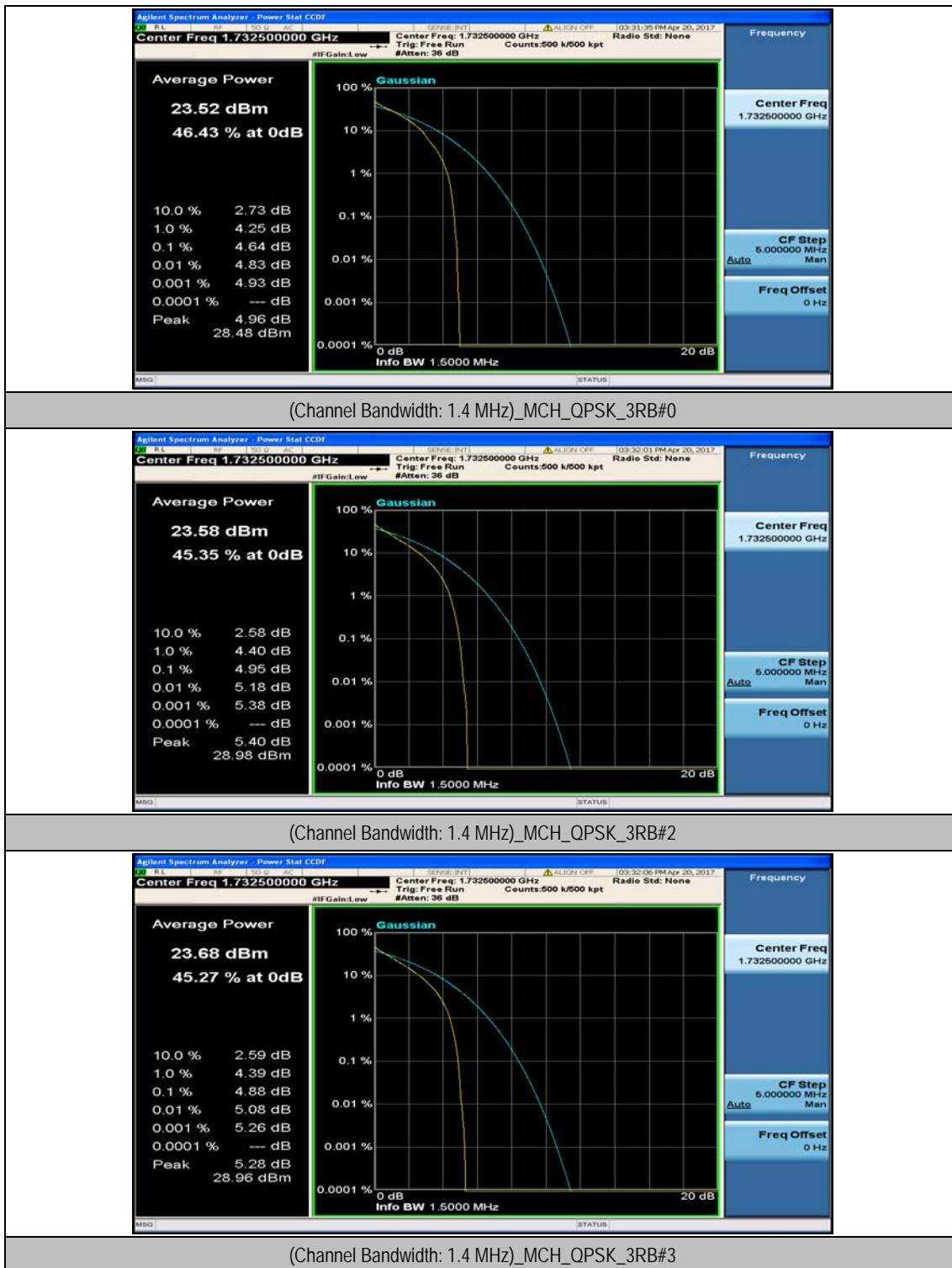
Test Graphs

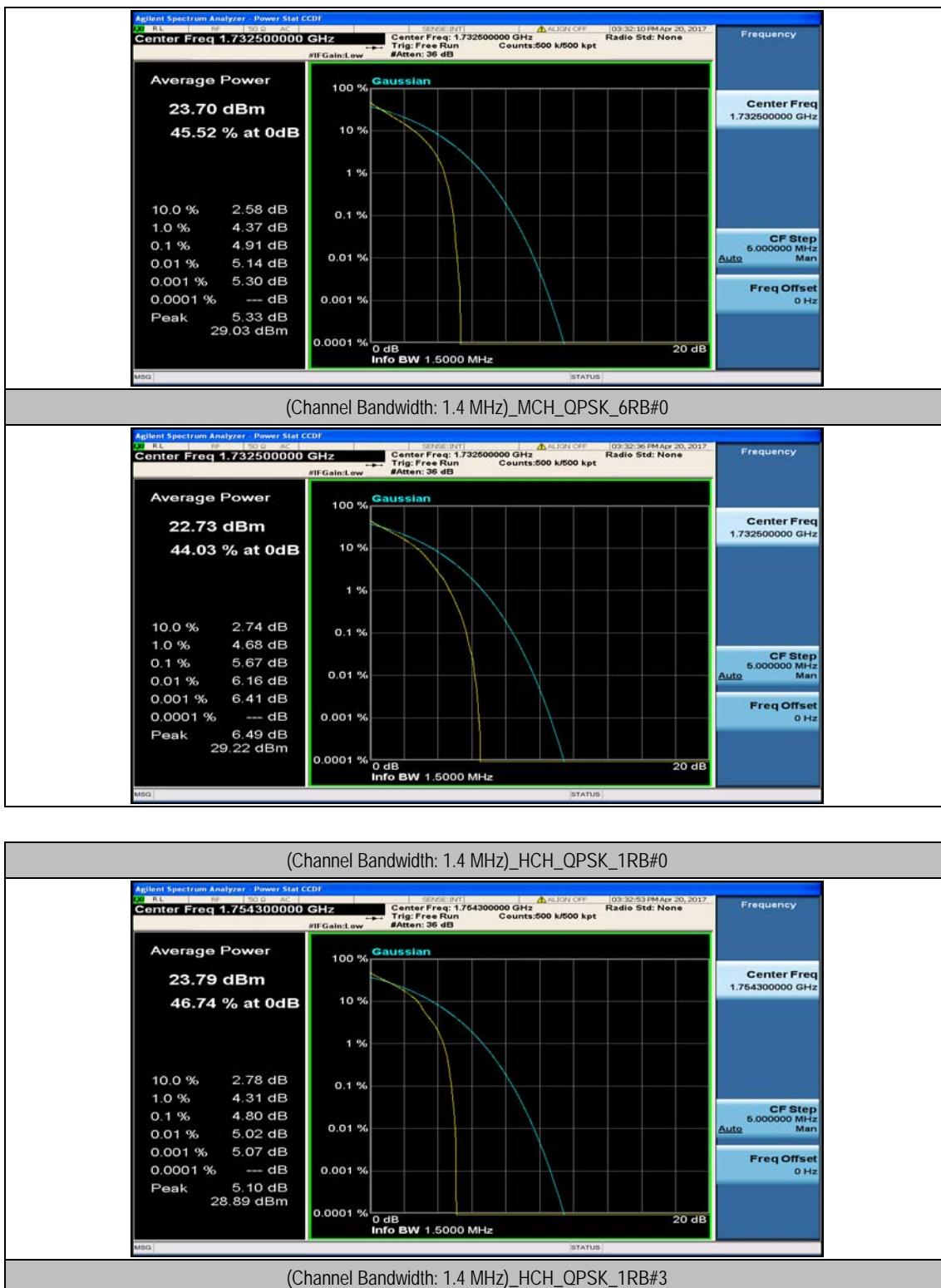
Channel Bandwidth: 1.4 MHz

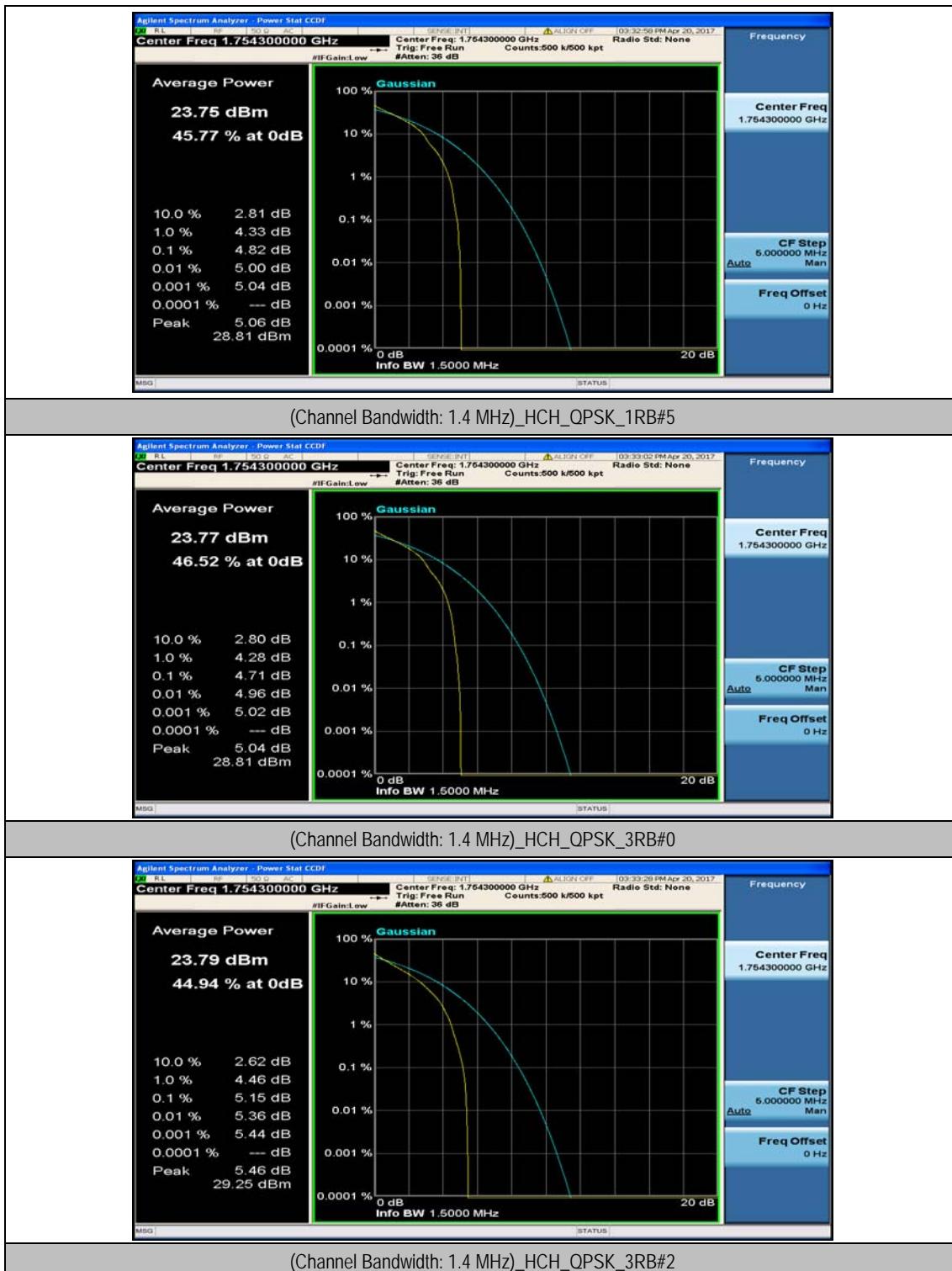


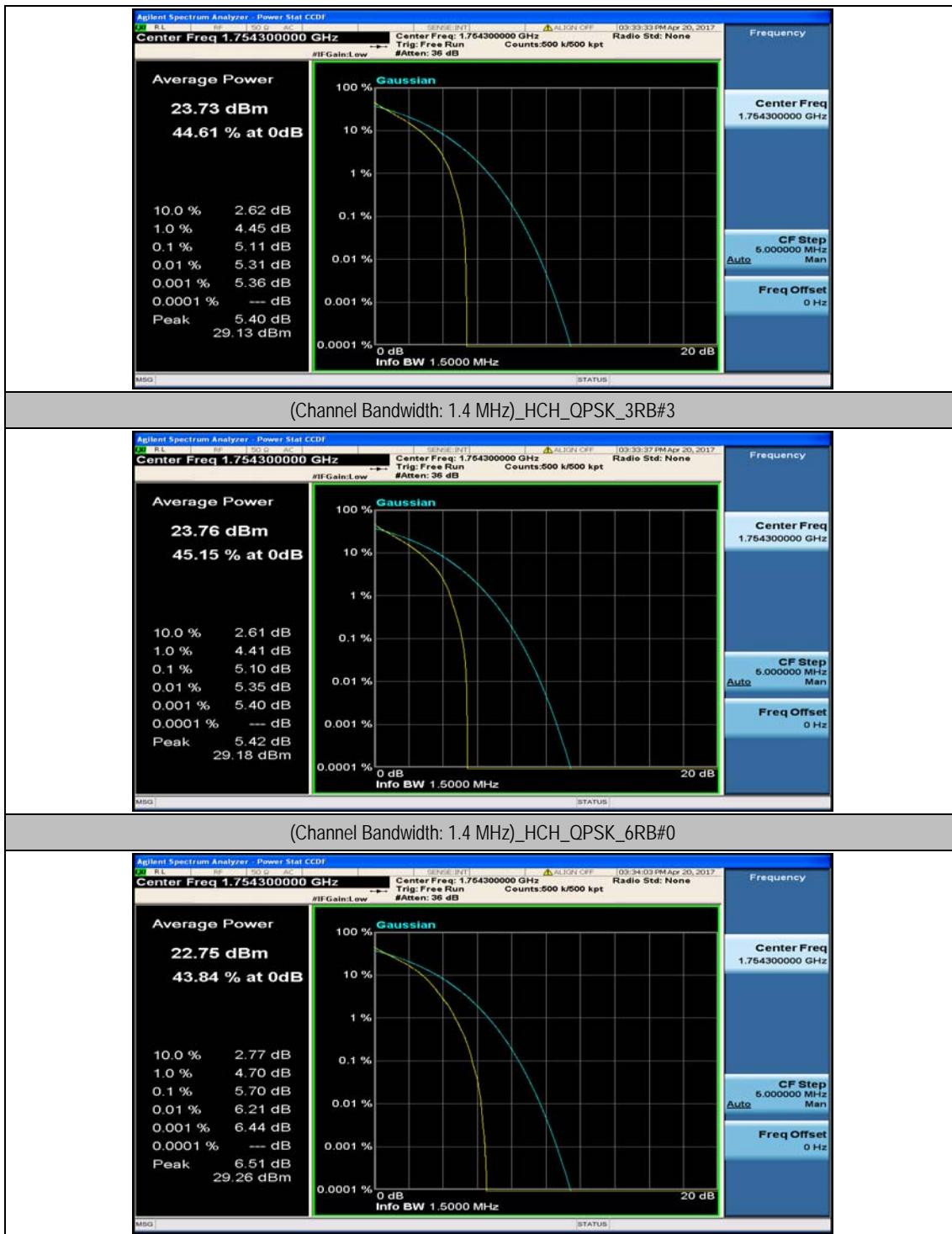


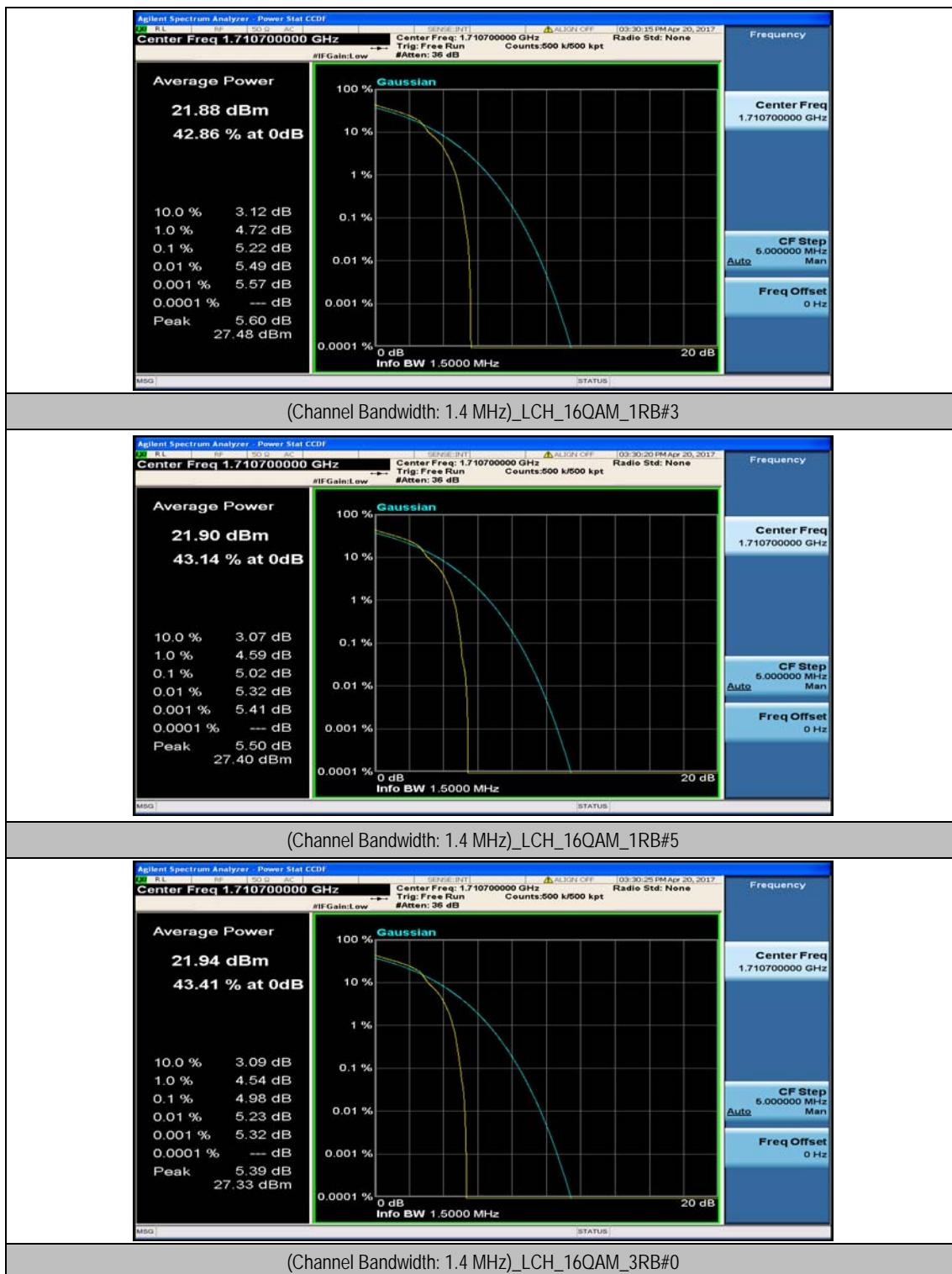


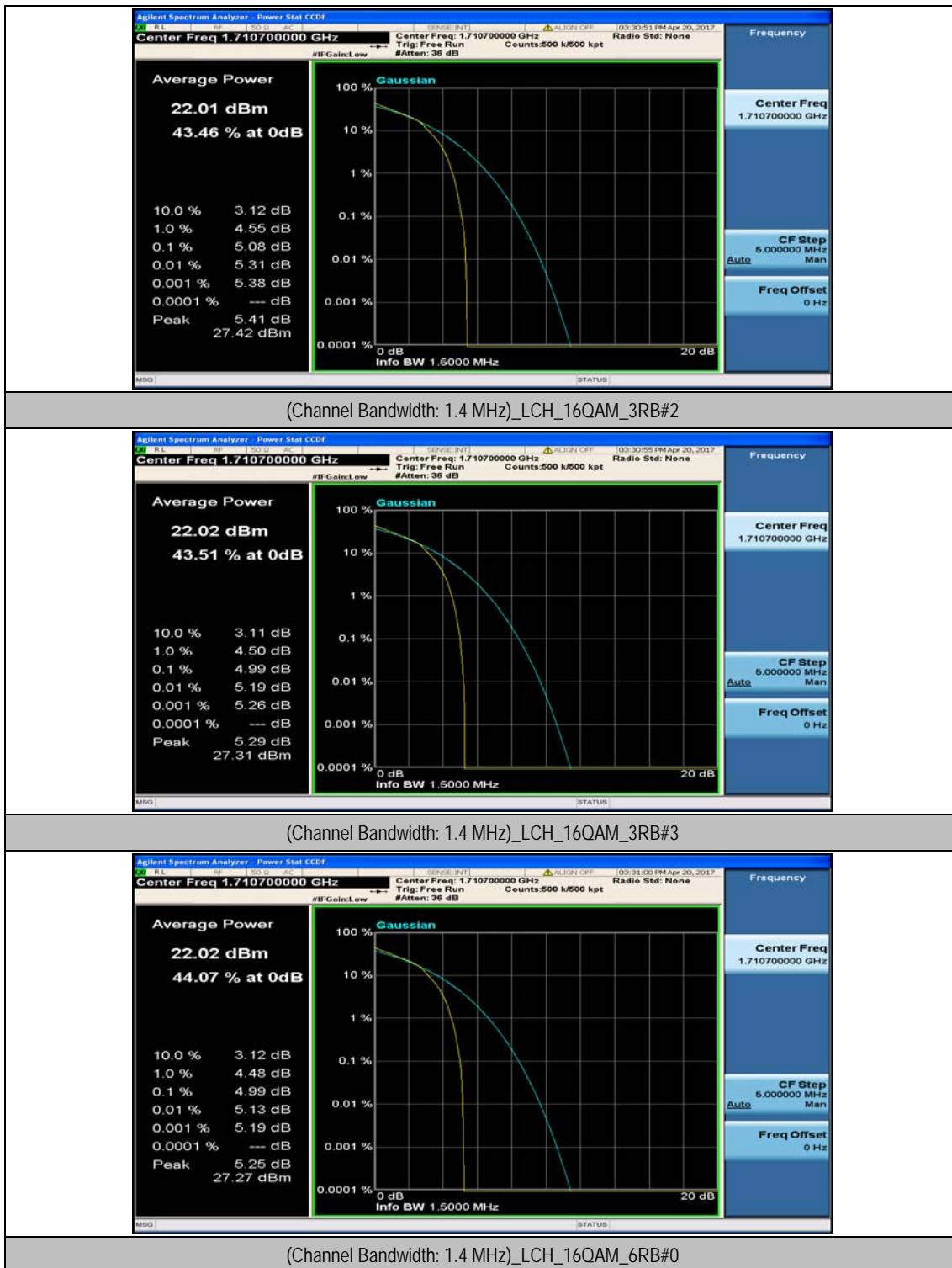


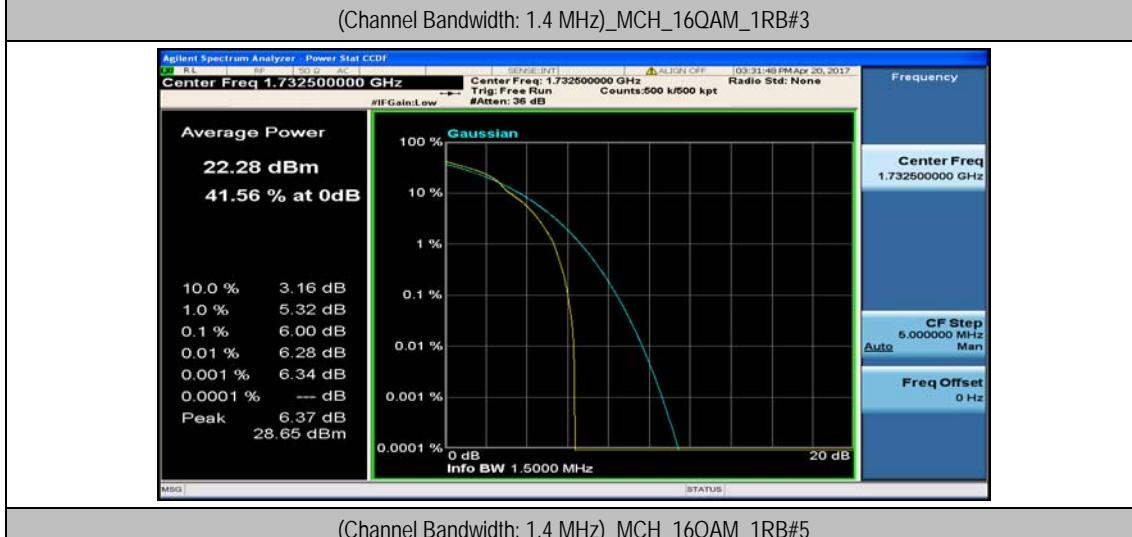
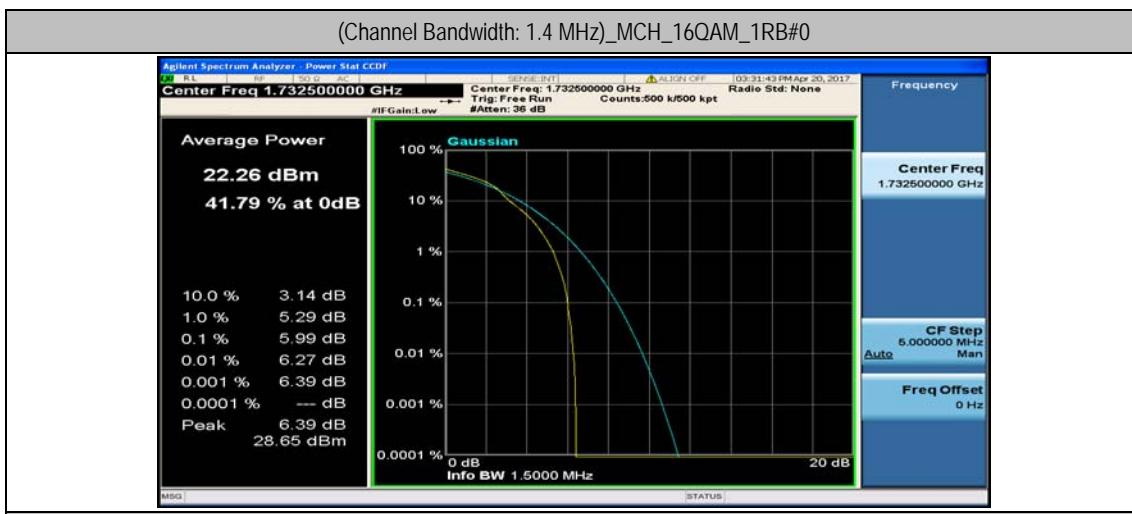
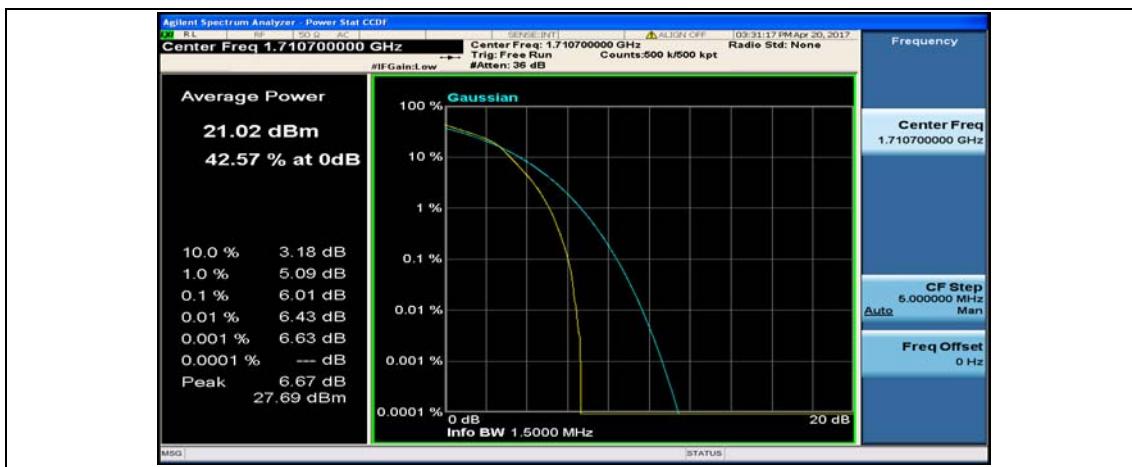


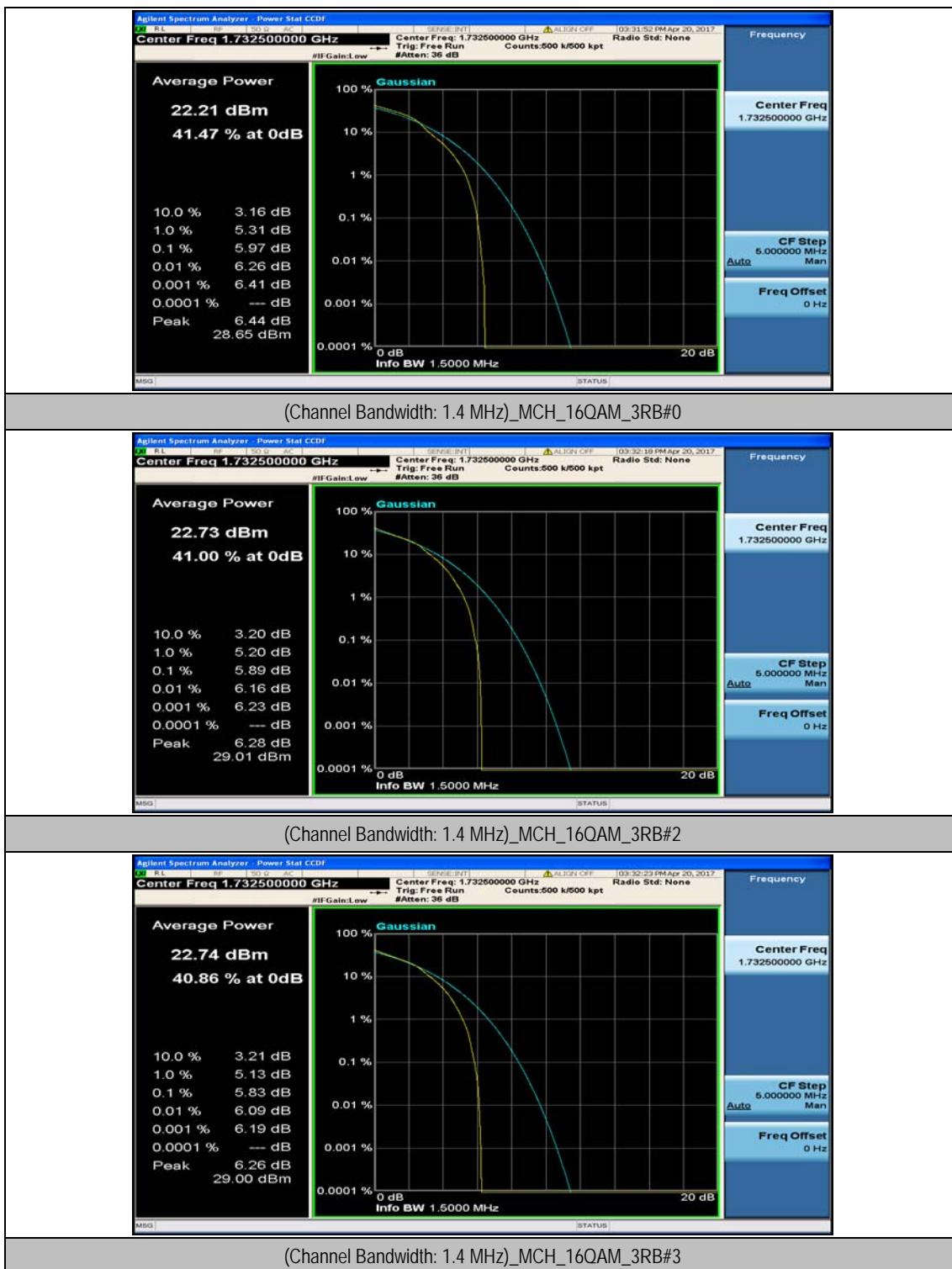


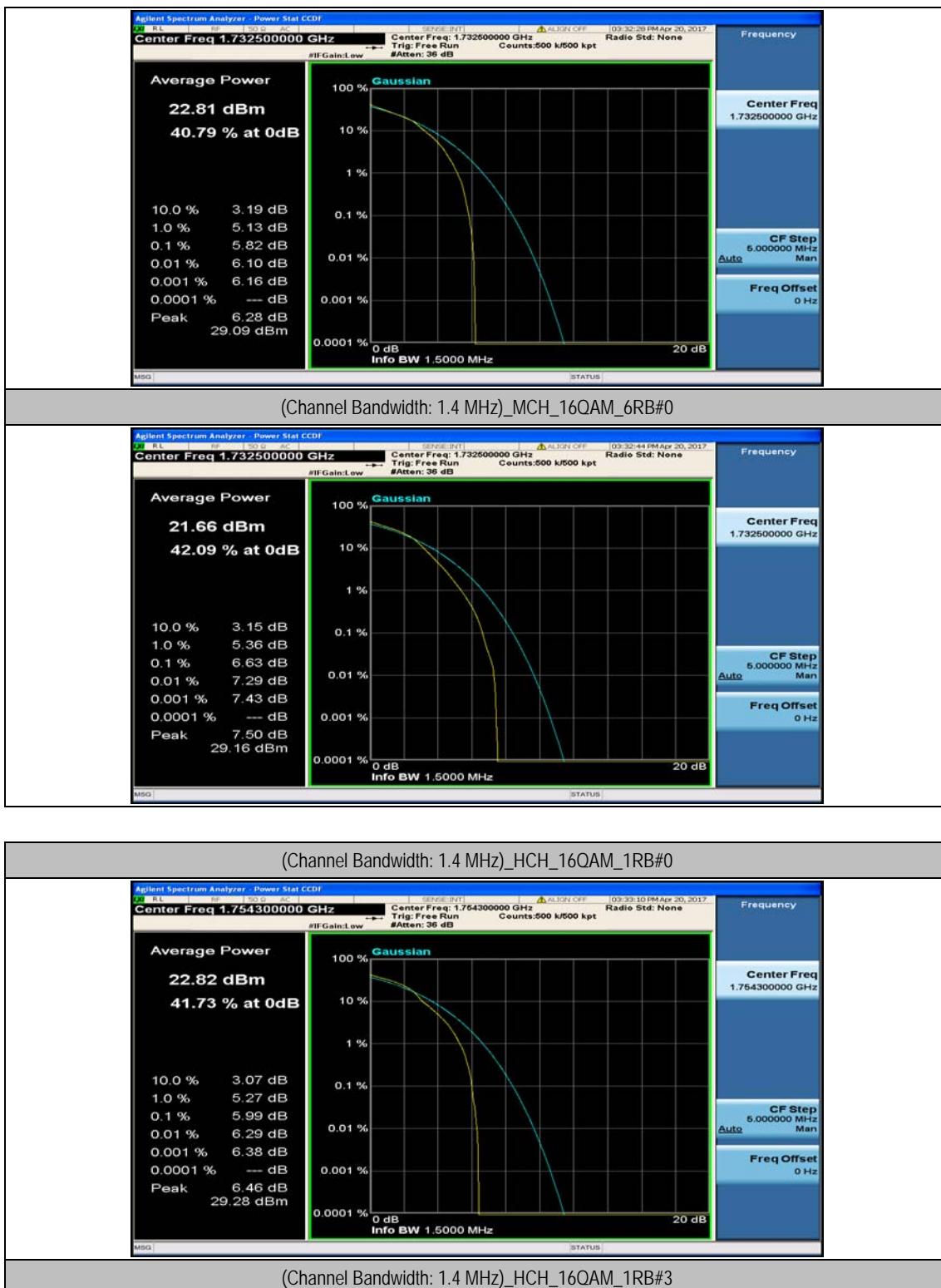


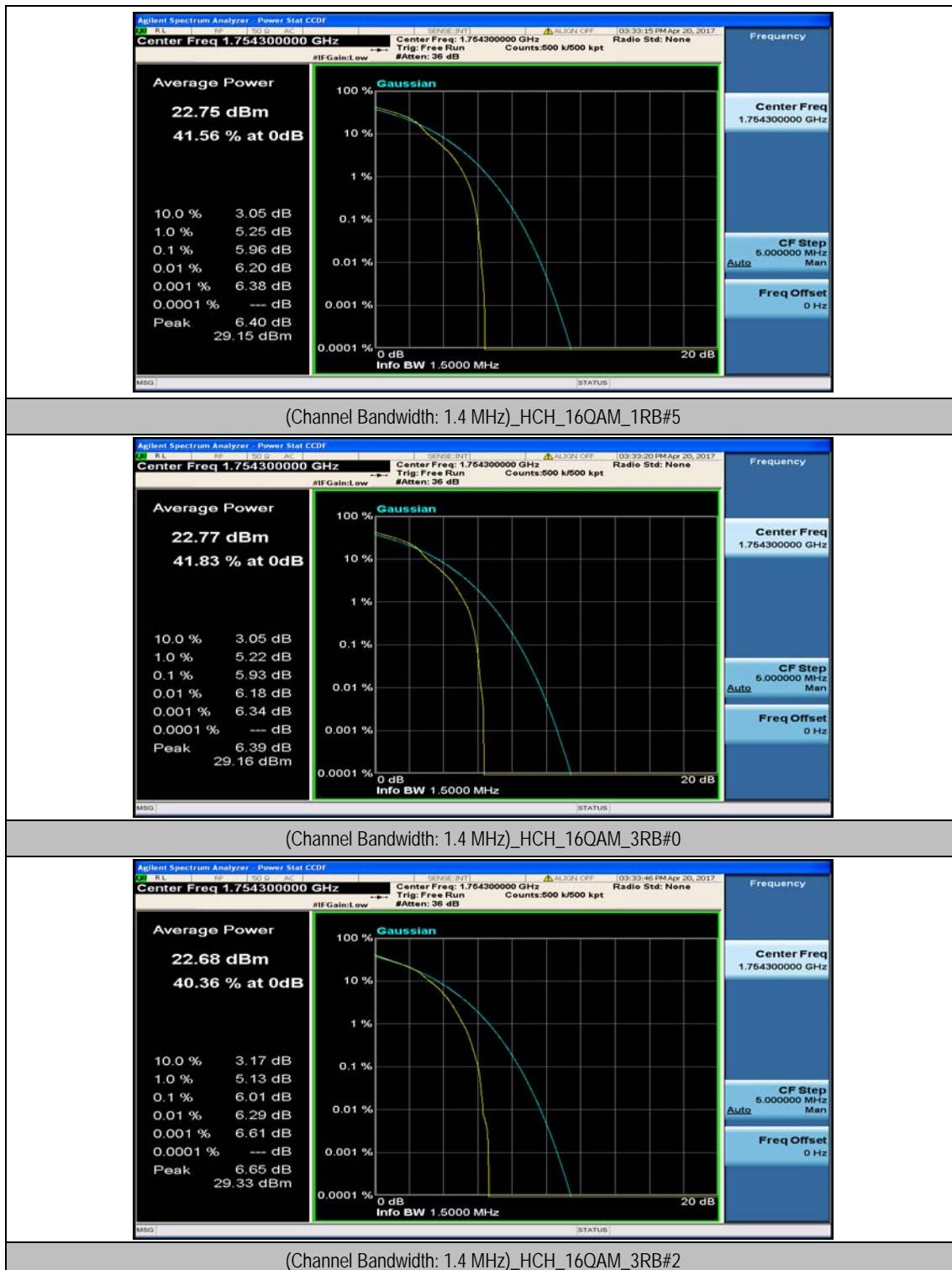


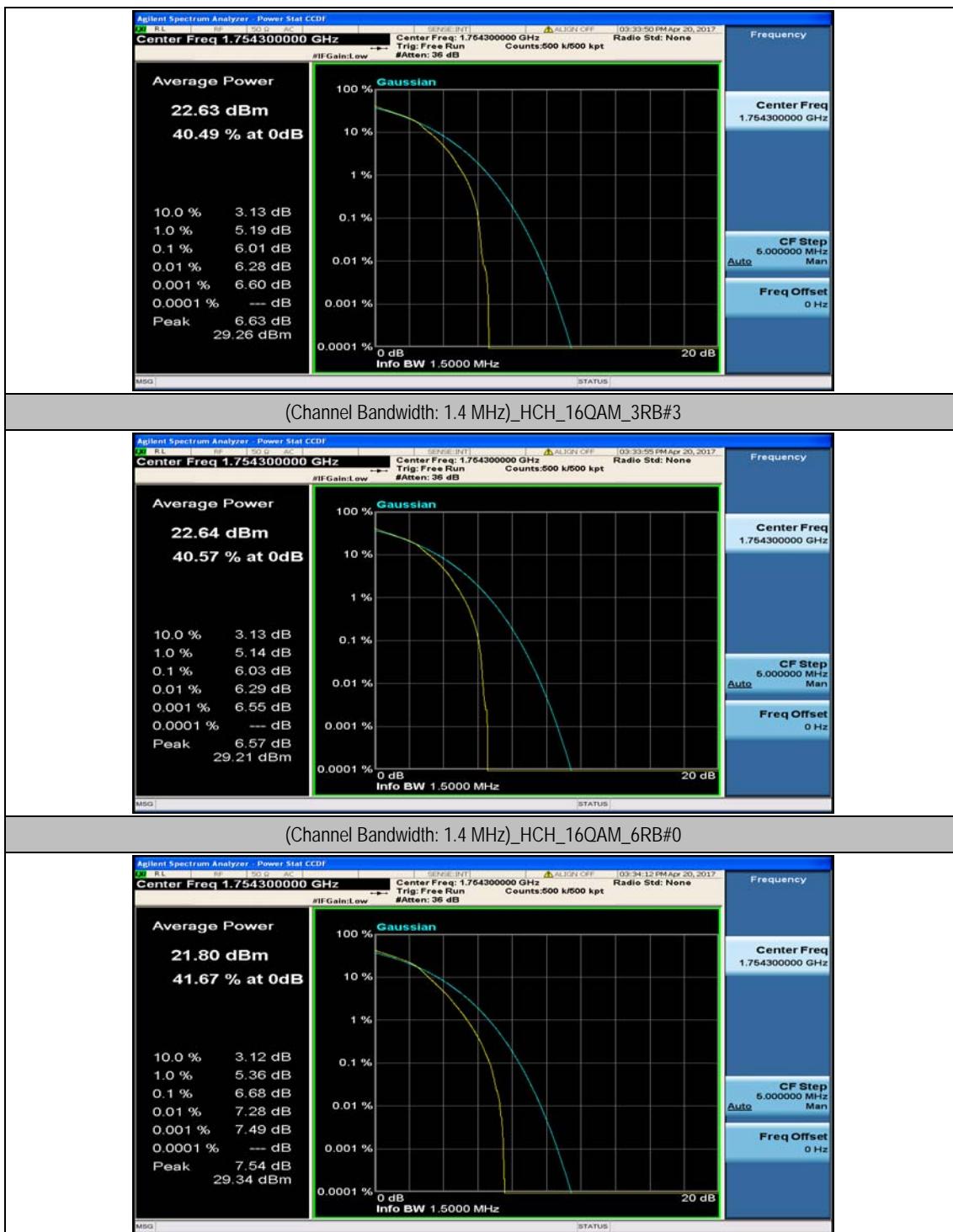






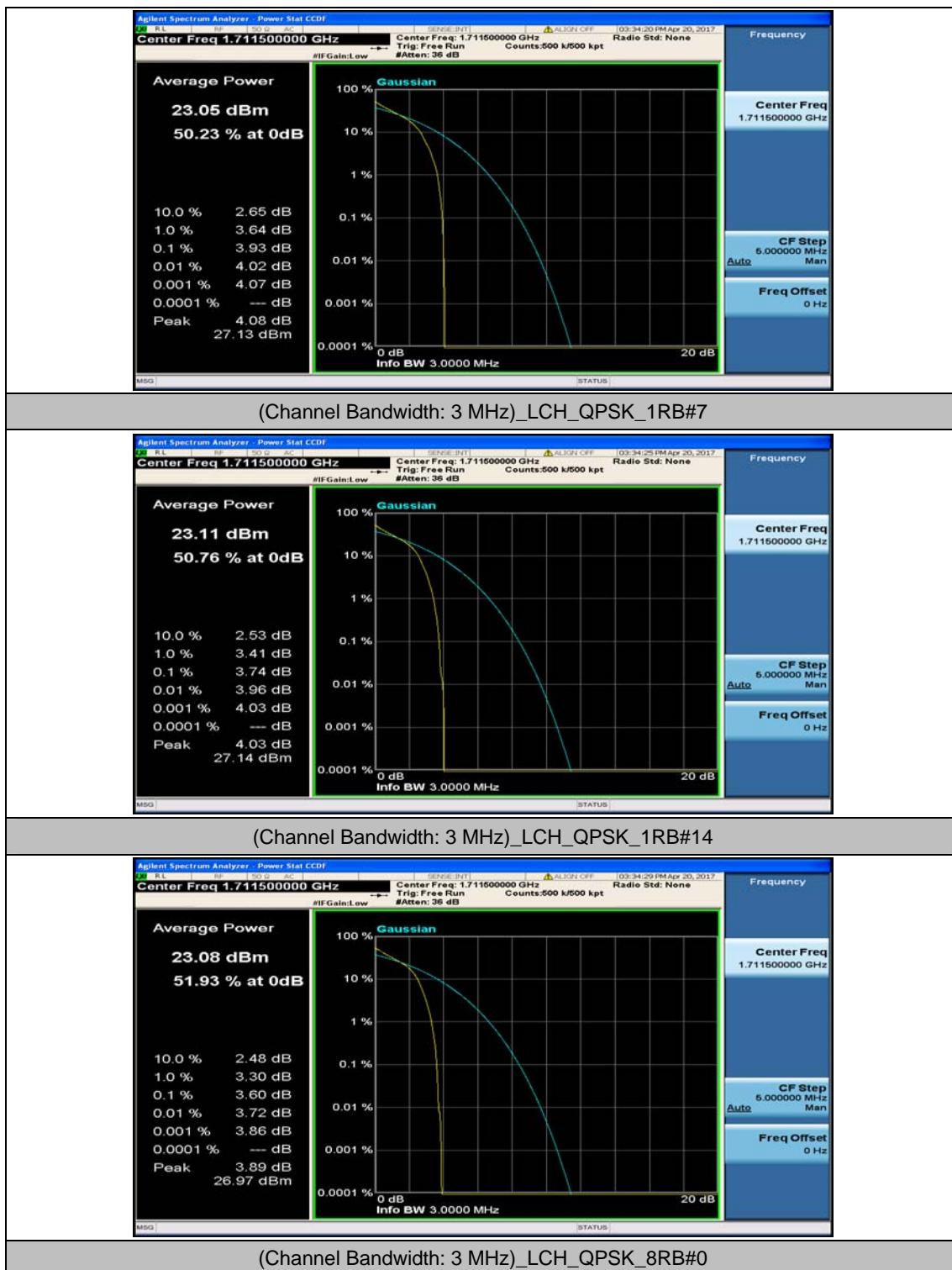


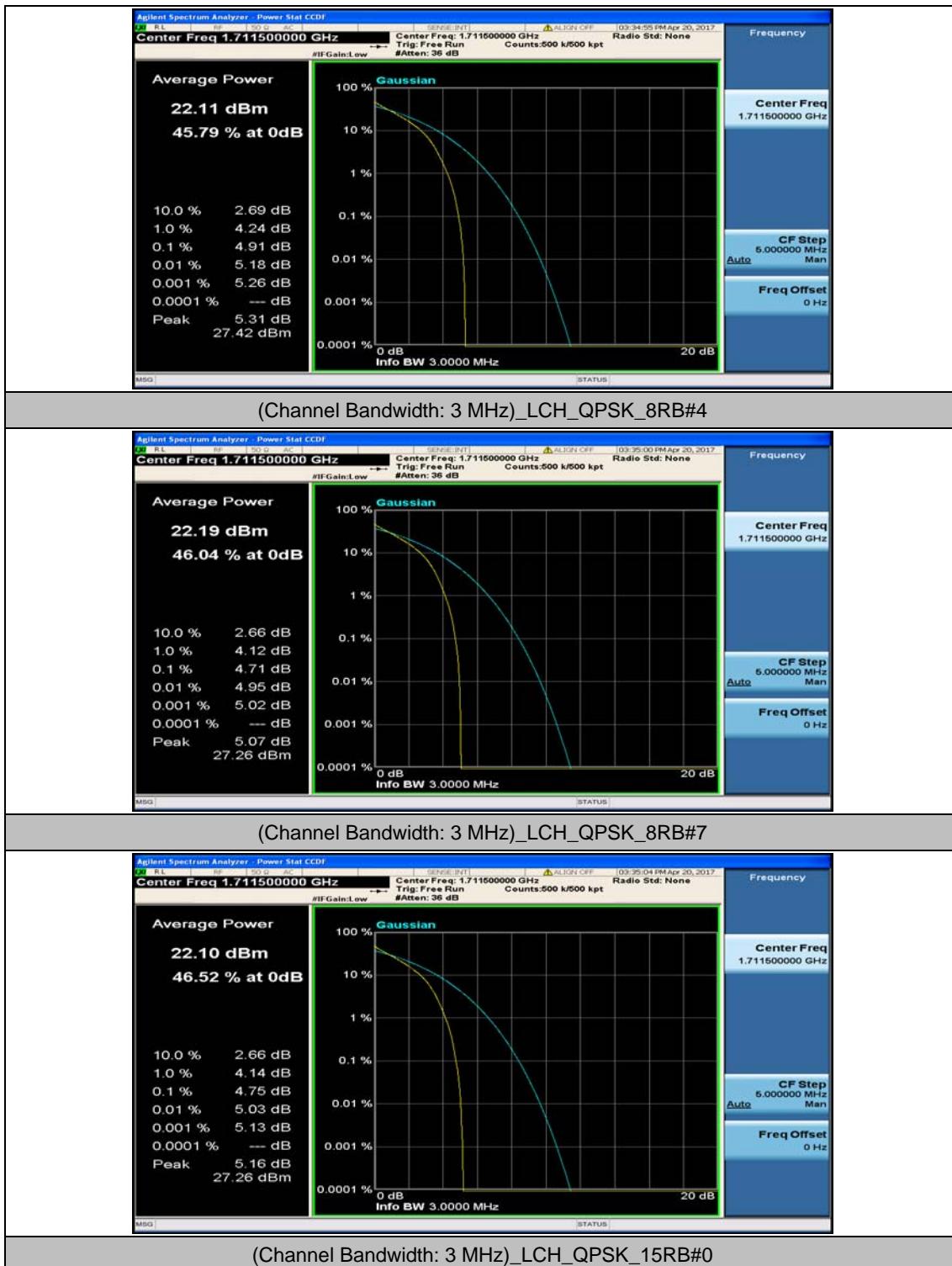


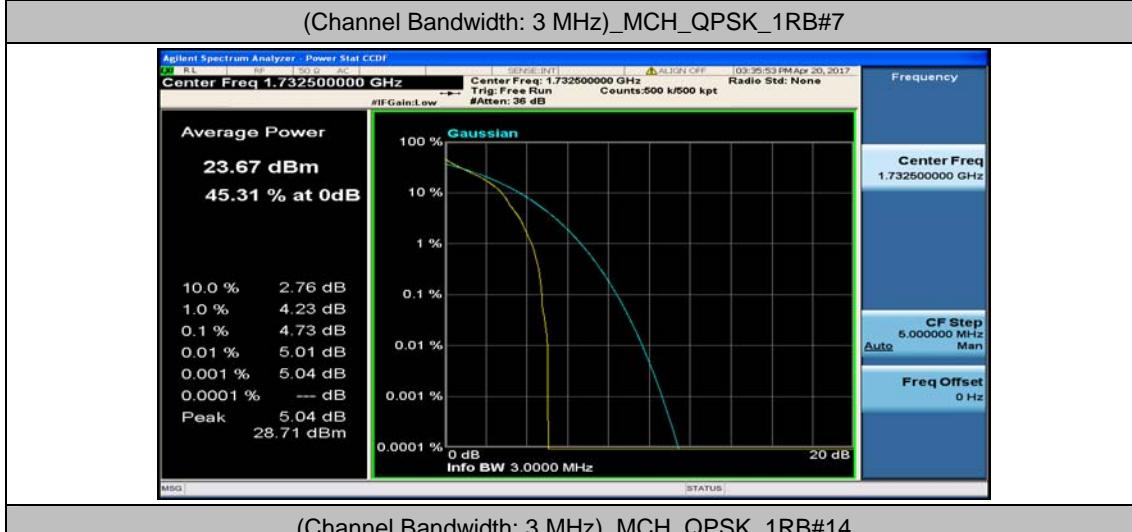
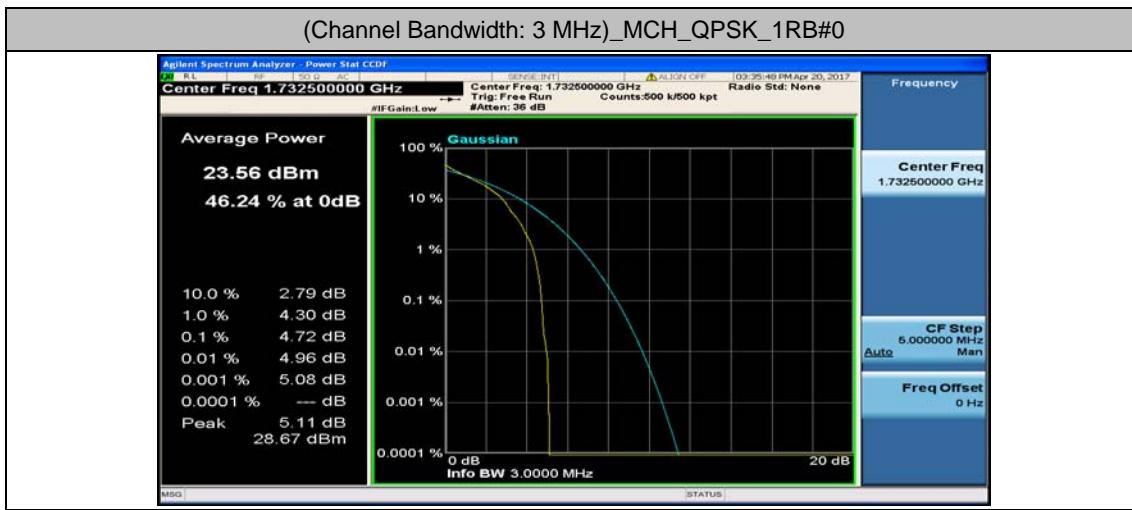
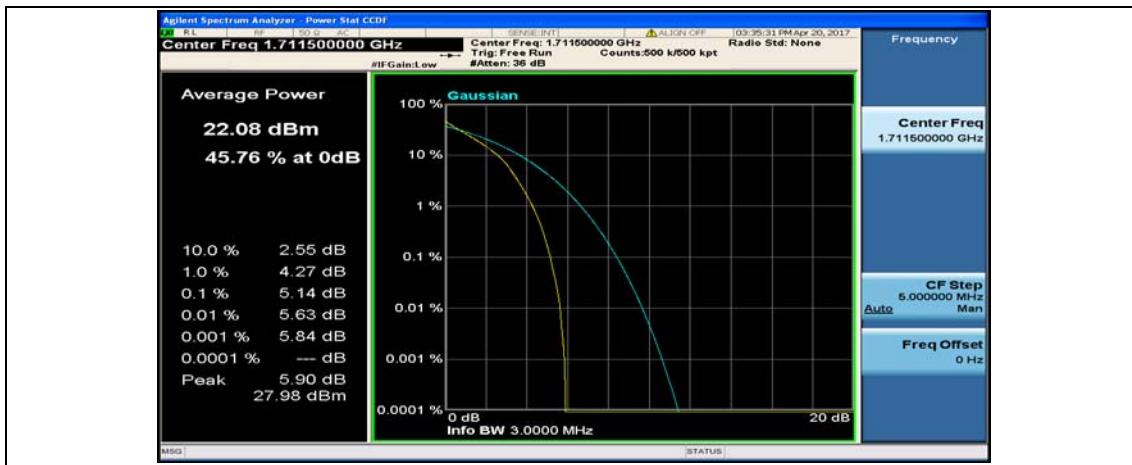


Channel Bandwidth: 3 MHz

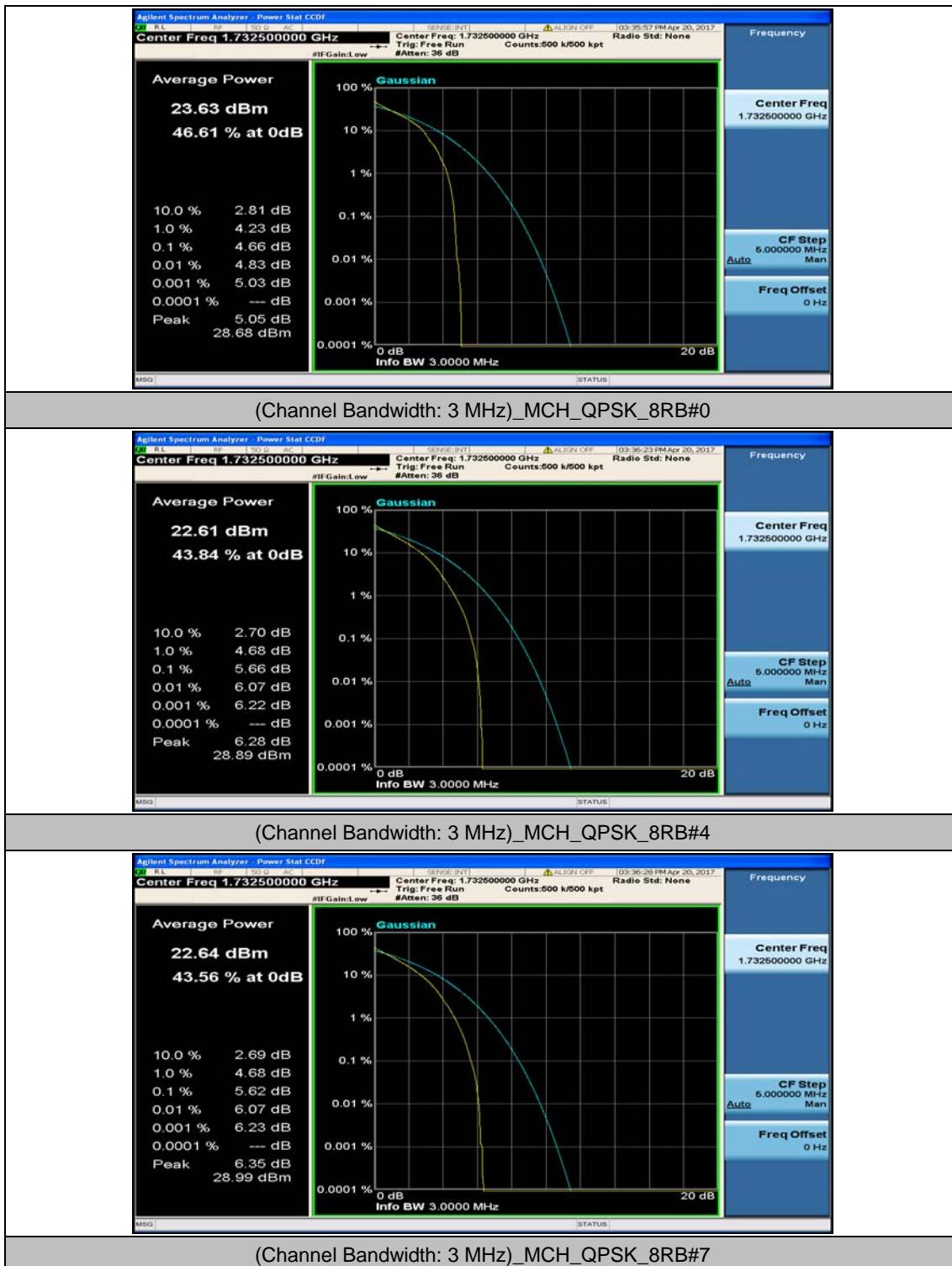
(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#0

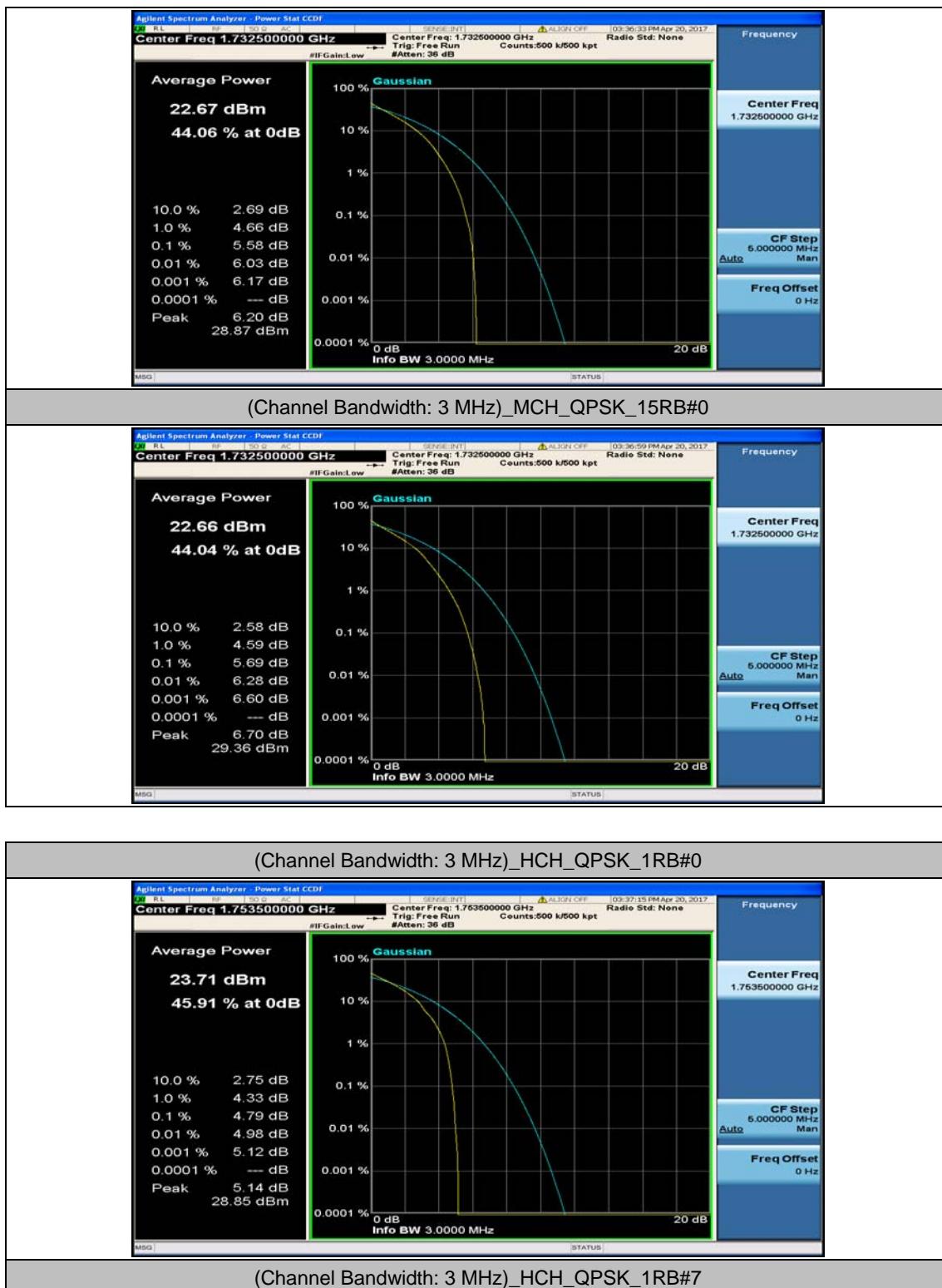


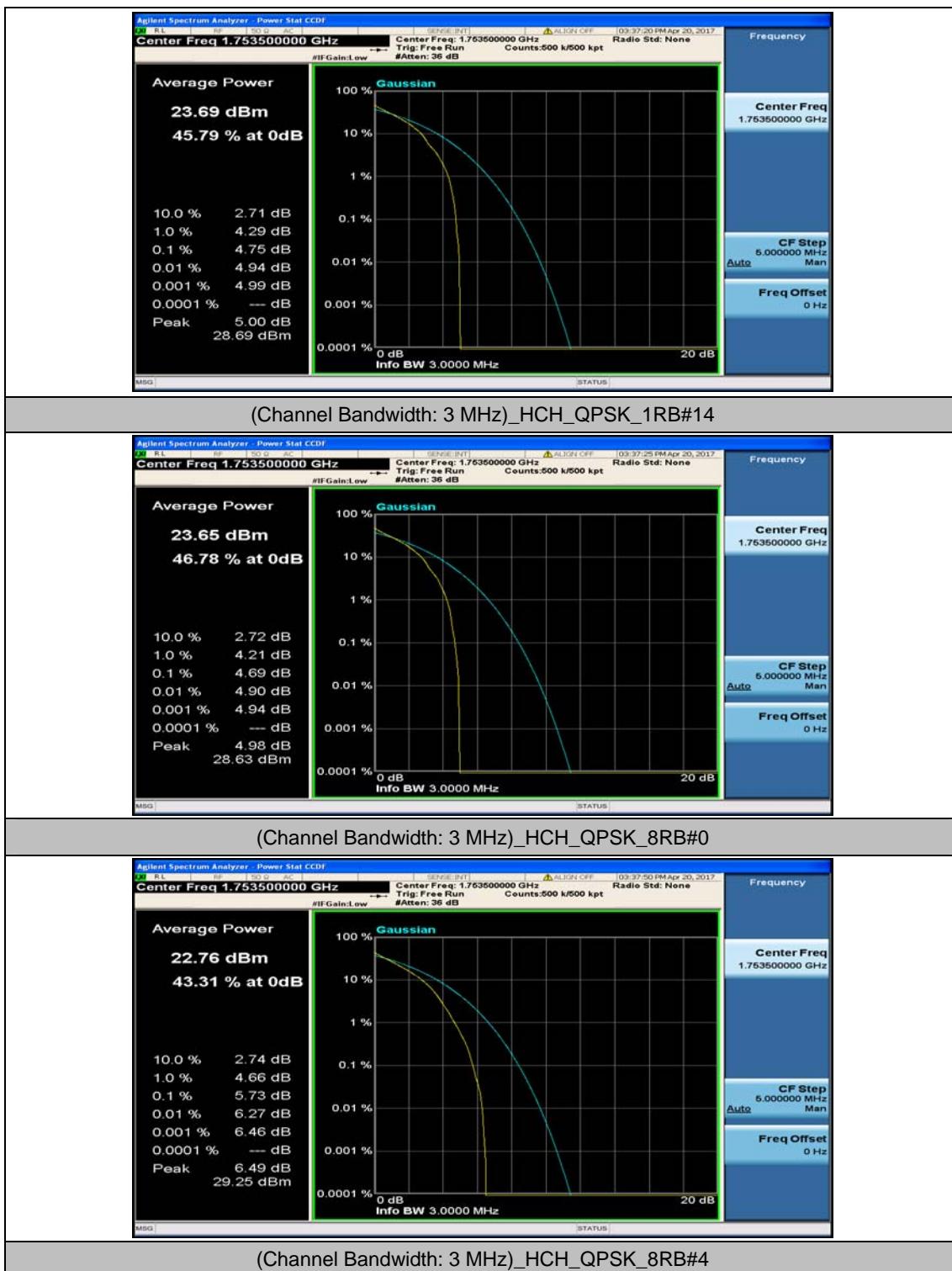


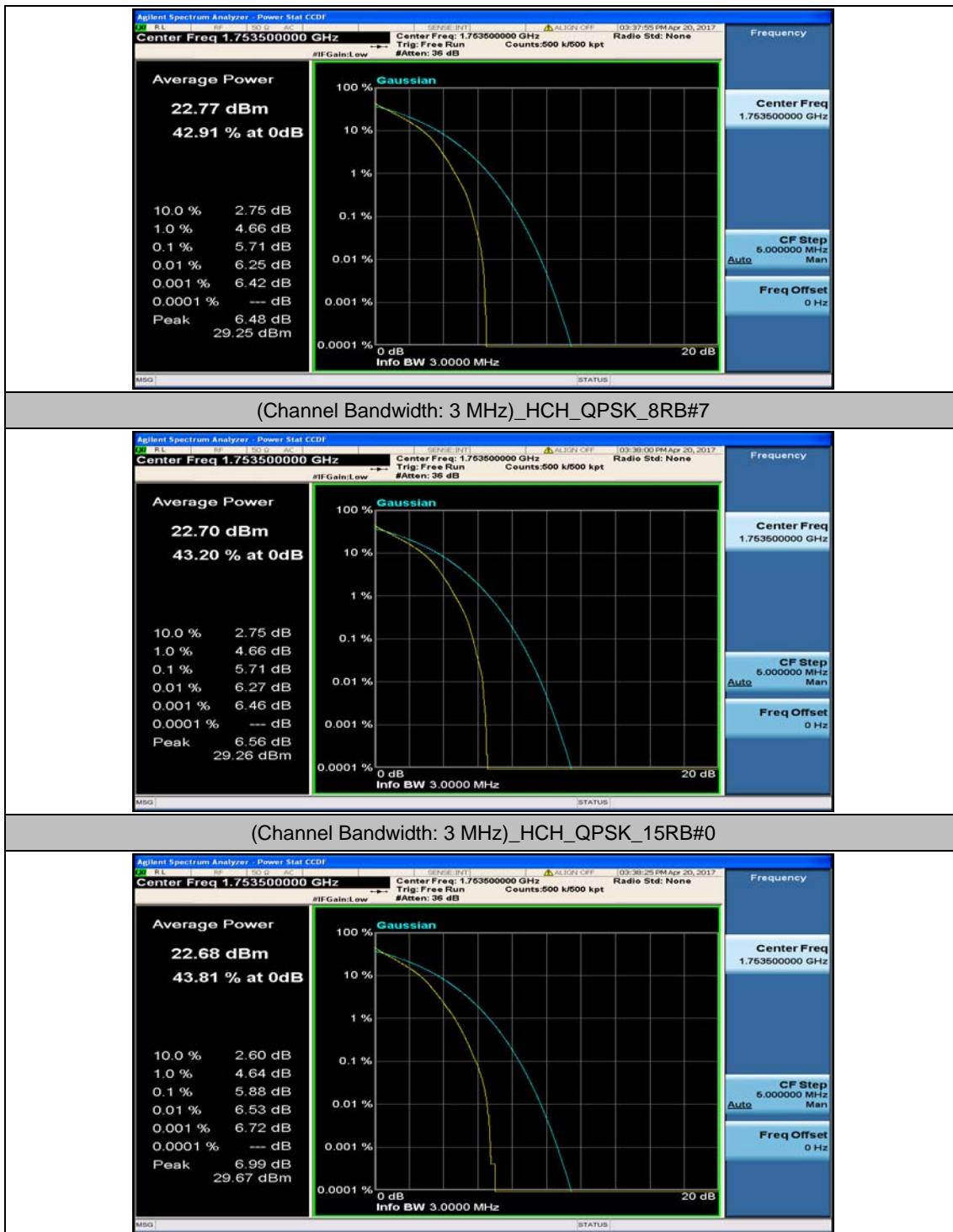


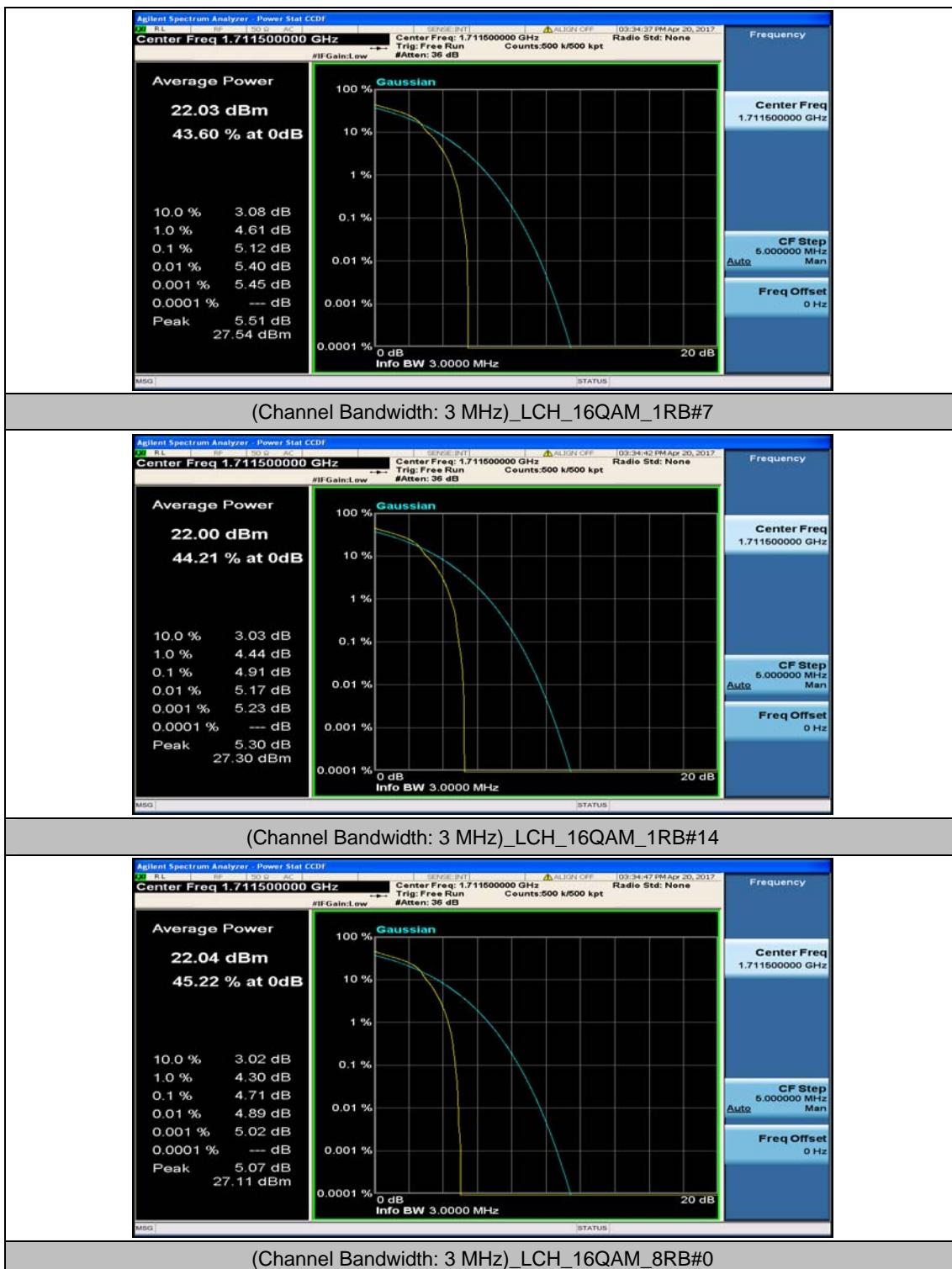
(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#14

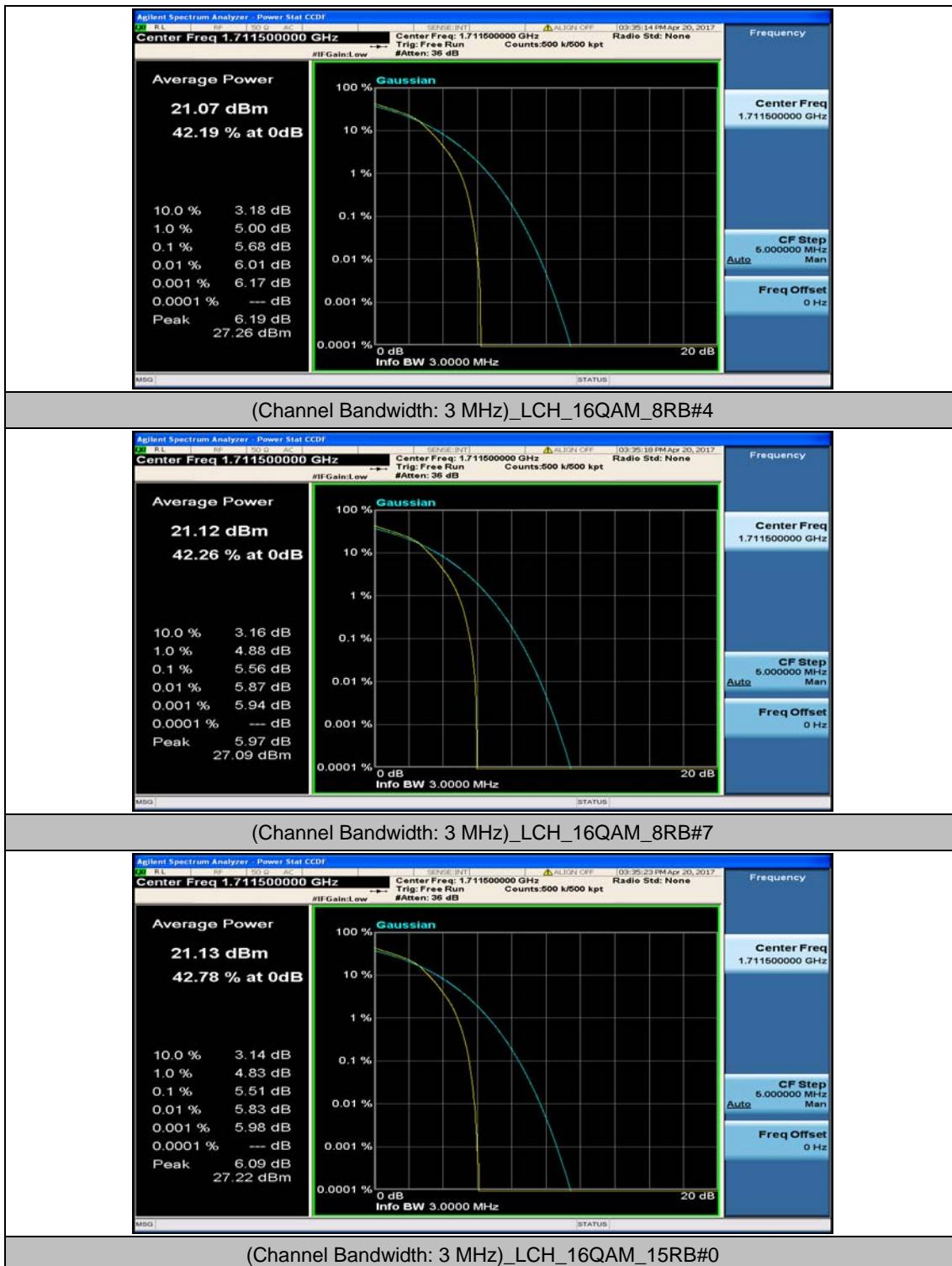


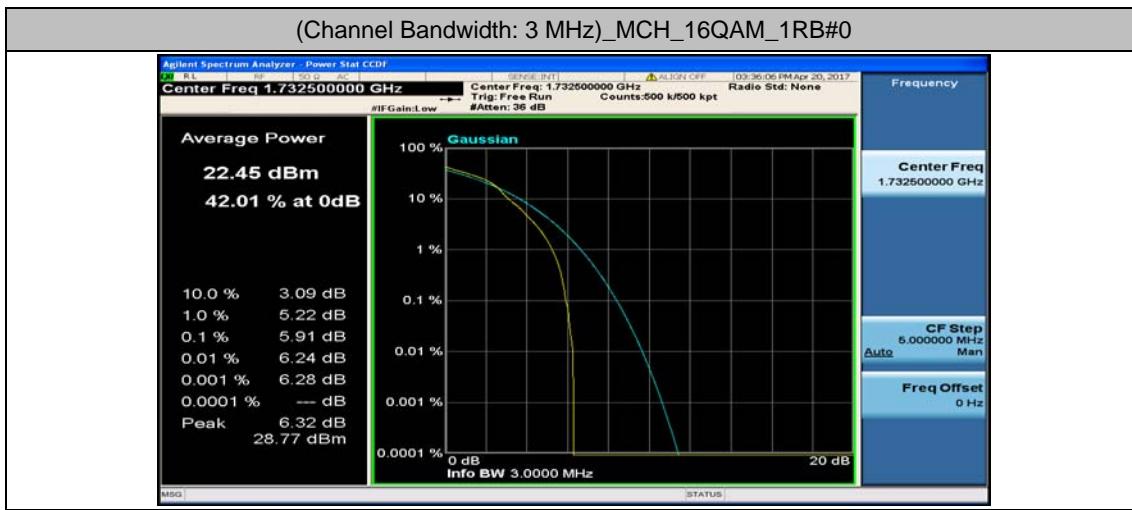
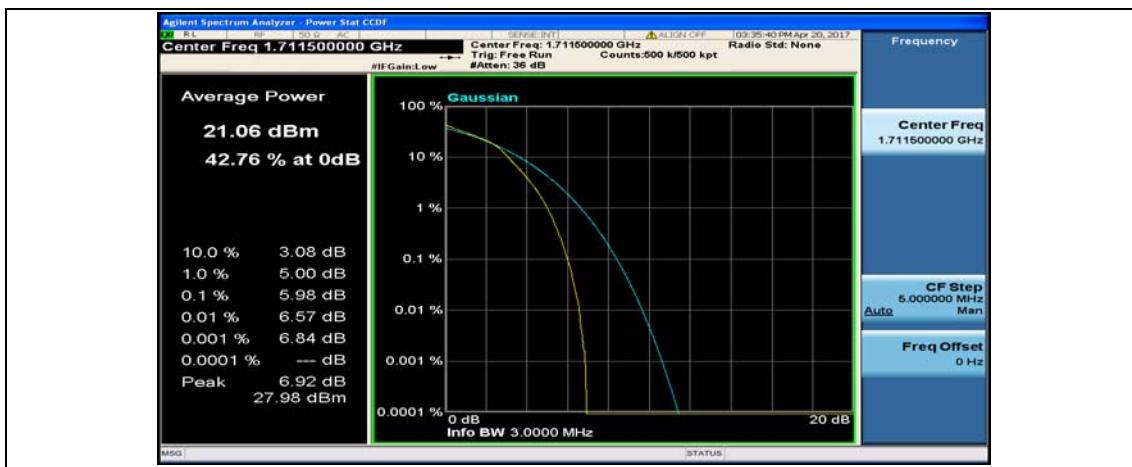


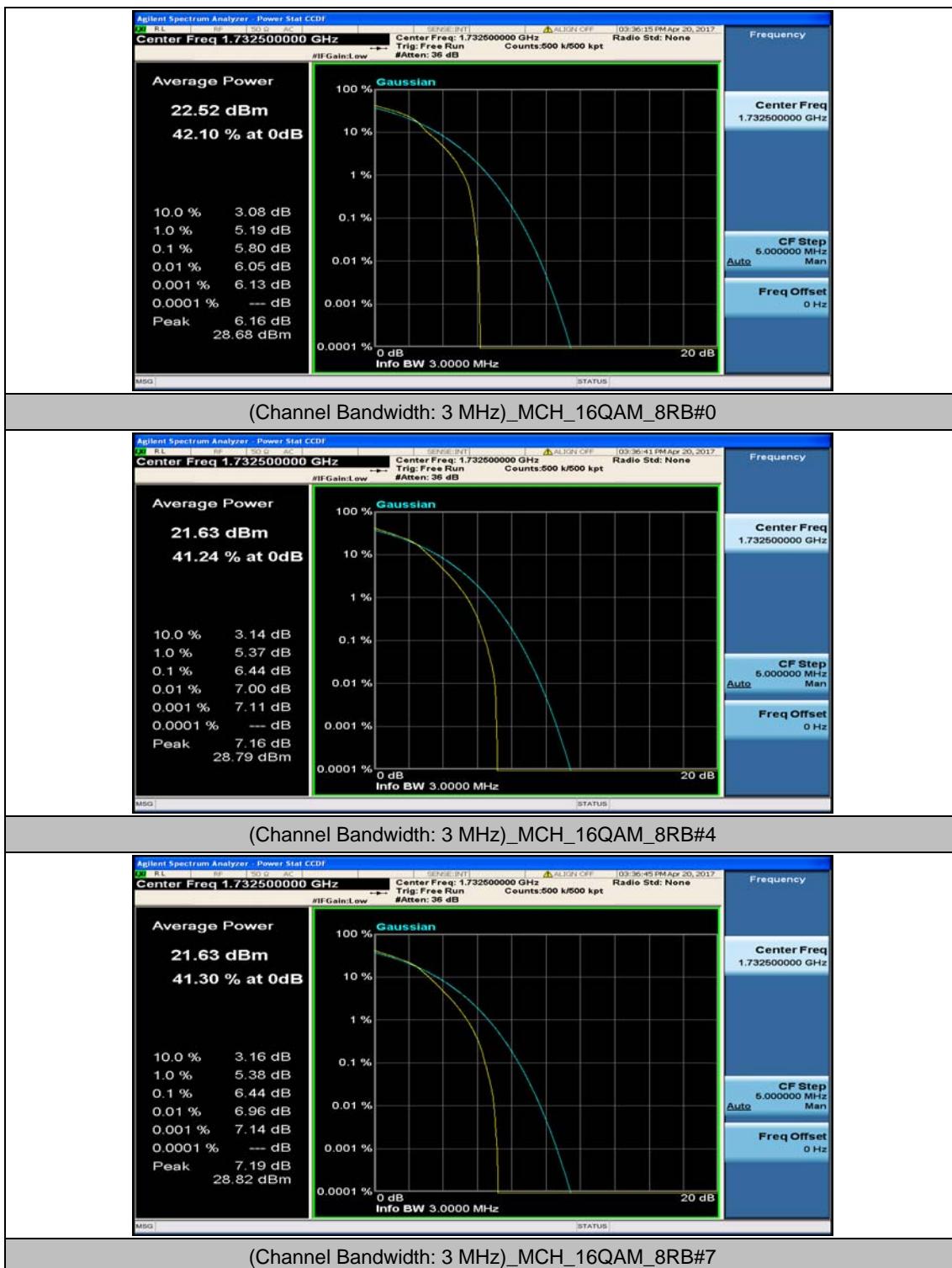


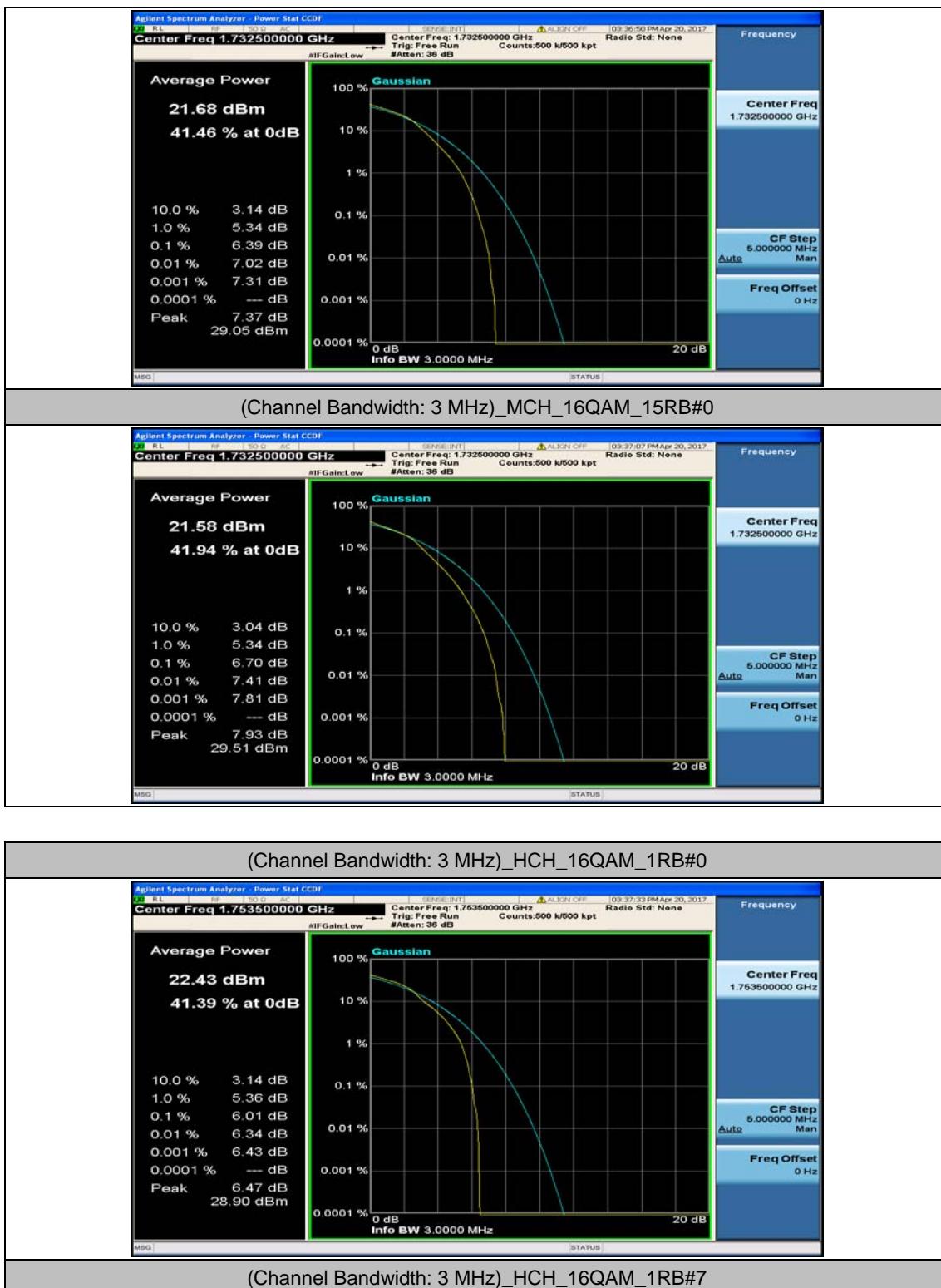


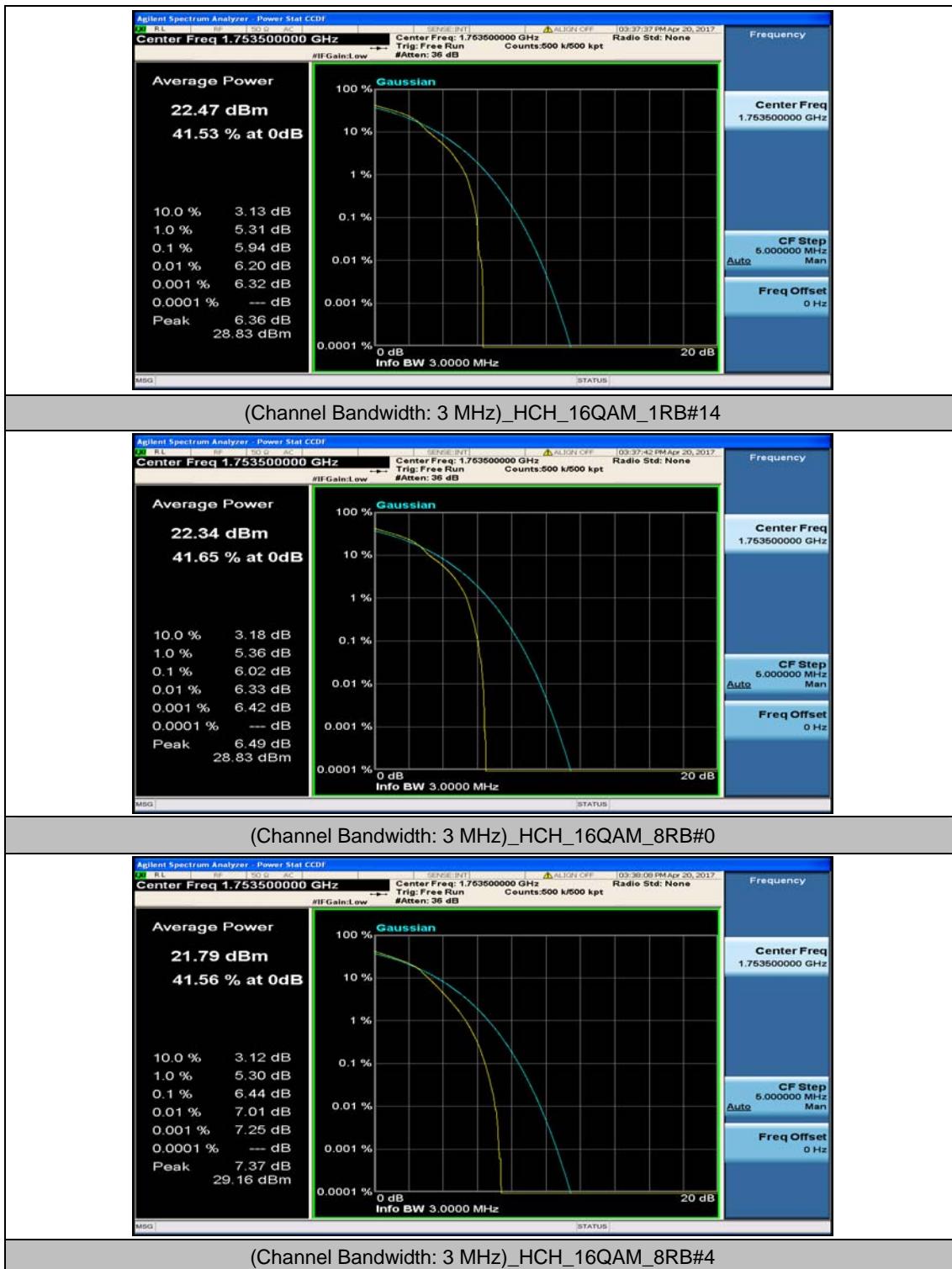


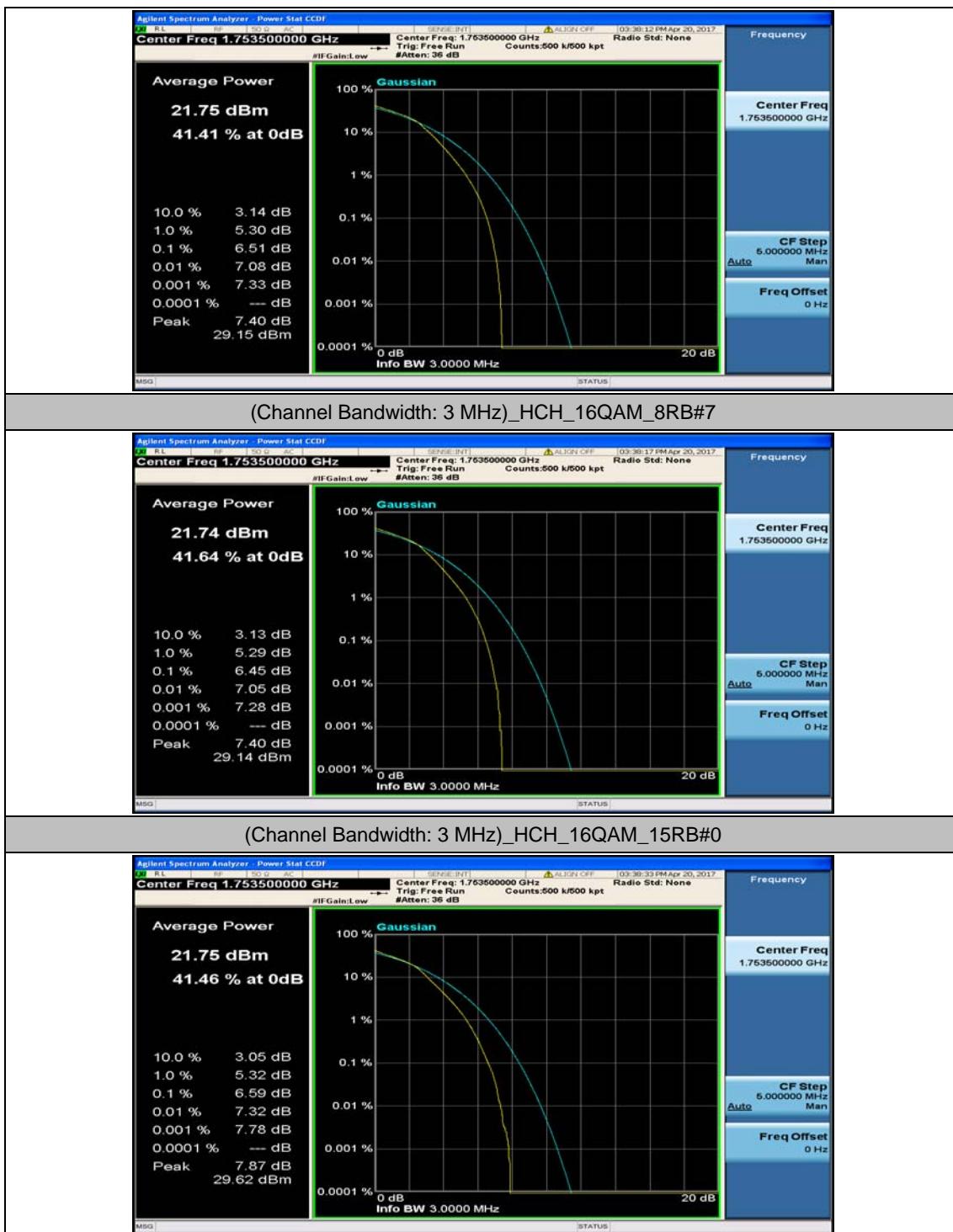












Channel Bandwidth: 5 MHz

(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#0

