

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	23.68	PASS
		1	3	23.32	PASS
		1	5	23.34	PASS
		3	0	23.29	PASS
		3	2	23.19	PASS
		3	3	23.17	PASS
		6	0	22.42	PASS
	MCH	1	0	23.12	PASS
		1	3	23.01	PASS
		1	5	23.15	PASS
		3	0	23.08	PASS
		3	2	23.04	PASS
		3	3	23.10	PASS
		6	0	22.38	PASS
16QAM	HCH	1	0	22.74	PASS
		1	3	22.50	PASS
		1	5	22.50	PASS
		3	0	22.72	PASS
		3	2	22.59	PASS
		3	3	22.54	PASS
		6	0	21.83	PASS
	LCH	1	0	22.72	PASS
		1	3	22.53	PASS
		1	5	22.52	PASS
		3	0	22.44	PASS
		3	2	22.31	PASS
		3	3	22.30	PASS
		6	0	21.44	PASS
	MCH	1	0	22.52	PASS
		1	3	22.54	PASS
		1	5	22.56	PASS
		3	0	22.19	PASS
		3	2	22.19	PASS

		3	3	22.23	PASS
		6	0	21.42	PASS
HCH	HCH	1	0	22.06	PASS
		1	3	21.93	PASS
		1	5	21.85	PASS
		3	0	21.81	PASS
		3	2	21.70	PASS
		3	3	21.68	PASS
		6	0	21.14	PASS

Channel Bandwidth: 3 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	23.12	PASS
		1	7	22.89	PASS
		1	14	22.79	PASS
		8	0	22.31	PASS
		8	4	22.18	PASS
		8	7	22.09	PASS
		15	0	22.25	PASS
	MCH	1	0	22.85	PASS
		1	7	22.95	PASS
		1	14	23.03	PASS
		8	0	22.19	PASS
		8	4	22.24	PASS
		8	7	22.28	PASS
		15	0	22.24	PASS
	HCH	1	0	22.83	PASS
		1	7	22.68	PASS
		1	14	22.44	PASS
		8	0	22.03	PASS
		8	4	21.93	PASS
		8	7	21.84	PASS
		15	0	21.96	PASS
16QAM	LCH	1	0	22.49	PASS
		1	7	22.28	PASS
		1	14	22.17	PASS
		8	0	21.41	PASS
		8	4	21.30	PASS
		8	7	21.20	PASS
		15	0	21.24	PASS
	MCH	1	0	22.26	PASS

		1	7	22.48	PASS
		1	14	22.47	PASS
		8	0	21.33	PASS
		8	4	21.37	PASS
		8	7	21.45	PASS
		15	0	21.37	PASS
	HCH	1	0	22.14	PASS
		1	7	22.00	PASS
		1	14	21.78	PASS
		8	0	21.12	PASS
		8	4	21.05	PASS
		8	7	20.96	PASS
		15	0	21.12	PASS

Channel Bandwidth: 5 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	23.32	PASS
		1	12	22.63	PASS
		1	24	22.65	PASS
		12	0	22.05	PASS
		12	6	21.75	PASS
		12	13	21.62	PASS
		25	0	21.82	PASS
	MCH	1	0	22.91	PASS
		1	12	22.69	PASS
		1	24	23.01	PASS
		12	0	21.90	PASS
		12	6	21.89	PASS
		12	13	22.02	PASS
		25	0	21.96	PASS
	HCH	1	0	23.16	PASS
		1	12	22.56	PASS
		1	24	22.54	PASS
		12	0	21.98	PASS
		12	6	21.75	PASS
		12	13	21.65	PASS
		25	0	21.80	PASS
16QAM	LCH	1	0	22.61	PASS
		1	12	21.93	PASS
		1	24	21.96	PASS
		12	0	21.13	PASS

		12	6	20.84	PASS
		12	13	20.71	PASS
		25	0	20.85	PASS
MCH		1	0	22.22	PASS
		1	12	22.11	PASS
		1	24	22.35	PASS
		12	0	21.14	PASS
		12	6	21.13	PASS
		12	13	21.28	PASS
		25	0	21.12	PASS
HCH		1	0	22.40	PASS
		1	12	21.82	PASS
		1	24	21.81	PASS
		12	0	21.11	PASS
		12	6	20.89	PASS
		12	13	20.82	PASS
		25	0	20.98	PASS

Channel Bandwidth: 10 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	22.75	PASS
		1	24	22.24	PASS
		1	49	22.45	PASS
		25	0	21.81	PASS
		25	12	21.44	PASS
		25	25	21.02	PASS
		50	0	21.42	PASS
	MCH	1	0	22.34	PASS
		1	24	22.64	PASS
		1	49	22.51	PASS
		25	0	21.77	PASS
		25	12	21.86	PASS
		25	25	21.86	PASS
		50	0	21.77	PASS
	HCH	1	0	22.72	PASS
		1	24	22.53	PASS
		1	49	22.05	PASS
		25	0	21.98	PASS
		25	12	21.79	PASS
		25	25	21.57	PASS
		50	0	21.76	PASS

16QAM	LCH	1	0	22.11	PASS
		1	24	21.60	PASS
		1	49	21.02	PASS
		25	0	20.86	PASS
		25	12	20.49	PASS
		25	25	20.16	PASS
		50	0	20.47	PASS
	MCH	1	0	21.80	PASS
		1	24	22.21	PASS
		1	49	21.97	PASS
		25	0	20.94	PASS
		25	12	21.05	PASS
		25	25	21.04	PASS
		50	0	20.96	PASS
	HCH	1	0	22.05	PASS
		1	24	21.87	PASS
		1	49	21.16	PASS
		25	0	21.12	PASS
		25	12	20.97	PASS
		25	25	20.73	PASS
		50	0	20.95	PASS

Channel Bandwidth: 15 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	22.82	PASS
		1	37	22.02	PASS
		1	74	22.10	PASS
		37	0	21.57	PASS
		37	18	21.03	PASS
		37	38	21.58	PASS
		75	0	21.15	PASS
	MCH	1	0	22.29	PASS
		1	37	22.59	PASS
		1	74	22.63	PASS
		37	0	21.70	PASS
		37	18	21.74	PASS
		37	38	21.82	PASS
		75	0	21.72	PASS
	HCH	1	0	22.98	PASS
		1	37	22.62	PASS
		1	74	22.08	PASS

		37	0	22.08	PASS
		37	18	21.89	PASS
		37	38	21.64	PASS
		75	0	21.82	PASS
16QAM	LCH	1	0	22.15	PASS
		1	37	21.18	PASS
		1	74	21.20	PASS
		37	0	20.61	PASS
		37	18	20.36	PASS
		37	38	20.56	PASS
		75	0	20.33	PASS
	MCH	1	0	21.63	PASS
		1	37	22.04	PASS
		1	74	21.96	PASS
		37	0	20.83	PASS
		37	18	20.96	PASS
		37	38	21.05	PASS
		75	0	20.87	PASS
	HCH	1	0	22.29	PASS
		1	37	21.95	PASS
		1	74	21.43	PASS
		37	0	21.22	PASS
		37	18	21.04	PASS
		37	38	20.80	PASS
		75	0	21.01	PASS

Channel Bandwidth: 20 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	22.97	PASS
		1	49	22.15	PASS
		1	99	22.37	PASS
		50	0	21.37	PASS
		50	25	21.95	PASS
		50	50	.	PASS
		100	0	21.18	PASS
	MCH	1	0	22.30	PASS
		1	49	22.62	PASS
		1	99	22.74	PASS
		50	0	21.54	PASS
		50	25	21.70	PASS
		50	50	21.85	PASS

		100	0	21.68	PASS
HCH	HCH	1	0	22.85	PASS
		1	49	22.61	PASS
		1	99	22.05	PASS
		50	0	22.13	PASS
		50	25	21.91	PASS
		50	50	21.66	PASS
		100	0	21.88	PASS
16QAM	LCH	1	0	22.21	PASS
		1	49	21.03	PASS
		1	99	21.58	PASS
		50	0	20.39	PASS
		50	25	20.39	PASS
		50	50	20.45	PASS
		100	0	20.33	PASS
	MCH	1	0	21.69	PASS
		1	49	22.13	PASS
		1	99	22.14	PASS
		50	0	20.73	PASS
		50	25	20.92	PASS
		50	50	21.06	PASS
		100	0	20.83	PASS
	HCH	1	0	22.21	PASS
		1	49	21.98	PASS
		1	99	21.44	PASS
		50	0	21.29	PASS
		50	25	21.08	PASS
		50	50	20.86	PASS
		100	0	21.05	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	3.16	<13	PASS
		1	3	3.26	<13	PASS
		1	5	3.26	<13	PASS
		3	0	3.3	<13	PASS
		3	2	3.43	<13	PASS
		3	3	3.44	<13	PASS
		6	0	4.08	<13	PASS
	MCH	1	0	3.34	<13	PASS
		1	3	3.33	<13	PASS
		1	5	3.33	<13	PASS
		3	0	3.54	<13	PASS
		3	2	3.53	<13	PASS
		3	3	3.54	<13	PASS
		6	0	4.08	<13	PASS
16QAM	LCH	1	0	3.37	<13	PASS
		1	3	3.55	<13	PASS
		1	5	3.52	<13	PASS
		3	0	3.59	<13	PASS
		3	2	3.58	<13	PASS
		3	3	3.68	<13	PASS
		6	0	4.35	<13	PASS
	MCH	1	0	4.26	<13	PASS
		1	3	4.49	<13	PASS
		1	5	4.36	<13	PASS
		3	0	4.12	<13	PASS
		3	2	4.23	<13	PASS
		3	3	4.26	<13	PASS
		6	0	4.93	<13	PASS

		3	3	4.12	<13	PASS
		6	0	4.93	<13	PASS
HCH	1	0	4.38	<13	PASS	
	1	3	4.54	<13	PASS	
	1	5	4.56	<13	PASS	
	3	0	4.53	<13	PASS	
	3	2	4.53	<13	PASS	
	3	3	4.54	<13	PASS	
	6	0	5.14	<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	3.15	<13	PASS
		1	7	3.33	<13	PASS
		1	14	3.53	<13	PASS
		8	0	4.19	<13	PASS
		8	4	4.31	<13	PASS
		8	7	4.49	<13	PASS
		15	0	4.34	<13	PASS
	MCH	1	0	3.33	<13	PASS
		1	7	3.36	<13	PASS
		1	14	3.23	<13	PASS
		8	0	4.37	<13	PASS
		8	4	4.31	<13	PASS
		8	7	4.30	<13	PASS
		15	0	4.40	<13	PASS
	HCH	1	0	3.35	<13	PASS
		1	7	3.43	<13	PASS
		1	14	3.49	<13	PASS
		8	0	4.33	<13	PASS
		8	4	4.38	<13	PASS
		8	7	4.40	<13	PASS
		15	0	4.37	<13	PASS
16QAM	LCH	1	0	4.20	<13	PASS
		1	7	4.41	<13	PASS
		1	14	4.69	<13	PASS
		8	0	4.91	<13	PASS
		8	4	5.03	<13	PASS
		8	7	5.11	<13	PASS

		15	0	5.2	<13	PASS
MCH	1	0		4.55	<13	PASS
	1	7		4.34	<13	PASS
	1	14		4.41	<13	PASS
	8	0		4.94	<13	PASS
	8	4		4.97	<13	PASS
	8	7		4.96	<13	PASS
	15	0		5.15	<13	PASS
HCH	1	0		4.24	<13	PASS
	1	7		4.48	<13	PASS
	1	14		4.55	<13	PASS
	8	0		5.07	<13	PASS
	8	4		5.11	<13	PASS
	8	7		5.12	<13	PASS
	15	0		5.09	<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	3.09	<13	PASS
		1	12	3.75	<13	PASS
		1	24	3.90	<13	PASS
		12	0	4.42	<13	PASS
		12	6	4.68	<13	PASS
		12	13	4.92	<13	PASS
		25	0	4.76	<13	PASS
QPSK	MCH	1	0	3.39	<13	PASS
		1	12	3.51	<13	PASS
		1	24	3.35	<13	PASS
		12	0	4.49	<13	PASS
		12	6	4.39	<13	PASS
		12	13	4.35	<13	PASS
		25	0	4.58	<13	PASS
QPSK	HCH	1	0	3.24	<13	PASS
		1	12	3.48	<13	PASS
		1	24	3.52	<13	PASS
		12	0	4.47	<13	PASS
		12	6	4.54	<13	PASS
		12	13	4.56	<13	PASS
		25	0	4.59	<13	PASS

16QAM	LCH	1	0	4.15	<13	PASS
		1	12	4.75	<13	PASS
		1	24	4.87	<13	PASS
		12	0	5.21	<13	PASS
		12	6	5.54	<13	PASS
		12	13	5.62	<13	PASS
		25	0	5.48	<13	PASS
	MCH	1	0	4.65	<13	PASS
		1	12	4.53	<13	PASS
		1	24	4.53	<13	PASS
		12	0	5.20	<13	PASS
		12	6	5.10	<13	PASS
		12	13	5.10	<13	PASS
		25	0	5.30	<13	PASS
	HCH	1	0	4.14	<13	PASS
		1	12	4.34	<13	PASS
		1	24	4.28	<13	PASS
		12	0	5.11	<13	PASS
		12	6	5.23	<13	PASS
		12	13	5.18	<13	PASS
		25	0	5.26	<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	3.31	<13	PASS
		1	24	3.97	<13	PASS
		1	49	4.44	<13	PASS
		25	0	4.74	<13	PASS
		25	12	5.13	<13	PASS
		25	25	5.33	<13	PASS
		50	0	5.10	<13	PASS
	MCH	1	0	3.76	<13	PASS
		1	24	3.31	<13	PASS
		1	49	3.44	<13	PASS
		25	0	4.68	<13	PASS
		25	12	4.60	<13	PASS
		25	25	4.55	<13	PASS
		50	0	4.70	<13	PASS
	HCH	1	0	3.41	<13	PASS

		1	24	3.49	<13	PASS
		1	49	3.73	<13	PASS
		25	0	4.41	<13	PASS
		25	12	4.48	<13	PASS
		25	25	4.56	<13	PASS
		50	0	4.58	<13	PASS
16QAM	LCH	1	0	4.38	<13	PASS
		1	24	5.06	<13	PASS
		1	49	5.48	<13	PASS
		25	0	5.51	<13	PASS
		25	12	5.85	<13	PASS
		25	25	6.04	<13	PASS
		50	0	5.84	<13	PASS
	MCH	1	0	4.87	<13	PASS
		1	24	4.50	<13	PASS
		1	49	4.65	<13	PASS
		25	0	5.43	<13	PASS
		25	12	5.25	<13	PASS
		25	25	5.25	<13	PASS
		50	0	5.41	<13	PASS
	HCH	1	0	4.46	<13	PASS
		1	24	4.49	<13	PASS
		1	49	4.91	<13	PASS
		25	0	5.24	<13	PASS
		25	12	5.29	<13	PASS
		25	25	5.42	<13	PASS
		50	0	5.35	<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	3.24	<13	PASS
		1	37	4.20	<13	PASS
		1	74	4.13	<13	PASS
		37	0	4.97	<13	PASS
		37	18	5.28	<13	PASS
		37	38	5.40	<13	PASS
		75	0	5.52	<13	PASS
	MCH	1	0	3.94	<13	PASS
		1	37	3.49	<13	PASS

		1	74	3.51	<13	PASS
		37	0	4.80	<13	PASS
		37	18	4.64	<13	PASS
		37	38	4.59	<13	PASS
		75	0	5.05	<13	PASS
	HCH	1	0	3.37	<13	PASS
		1	37	3.36	<13	PASS
		1	74	3.62	<13	PASS
		37	0	4.49	<13	PASS
		37	18	4.57	<13	PASS
		37	38	4.62	<13	PASS
		75	0	4.94	<13	PASS
16QAM	LCH	1	0	4.34	<13	PASS
		1	37	5.29	<13	PASS
		1	74	5.18	<13	PASS
		37	0	5.71	<13	PASS
		37	18	6.00	<13	PASS
		37	38	6.17	<13	PASS
		75	0	6.06	<13	PASS
	MCH	1	0	5.01	<13	PASS
		1	37	4.52	<13	PASS
		1	74	4.59	<13	PASS
		37	0	5.54	<13	PASS
		37	18	5.38	<13	PASS
		37	38	5.32	<13	PASS
		75	0	5.6	<13	PASS
	HCH	1	0	4.42	<13	PASS
		1	37	4.45	<13	PASS
		1	74	4.70	<13	PASS
		37	0	5.22	<13	PASS
		37	18	5.28	<13	PASS
		37	38	5.35	<13	PASS
		75	0	5.5	<13	PASS

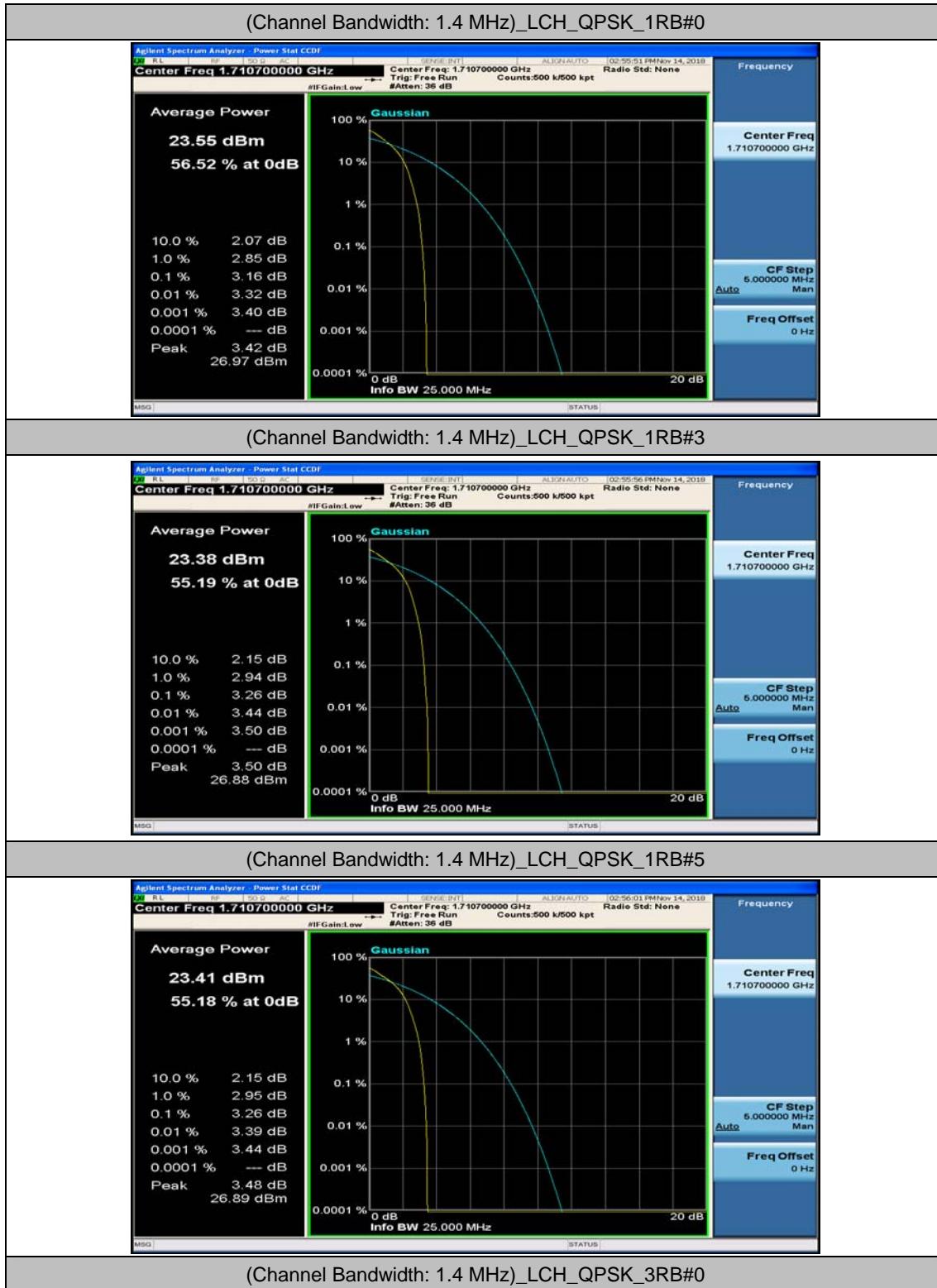
Channel Bandwidth: 20 MHz

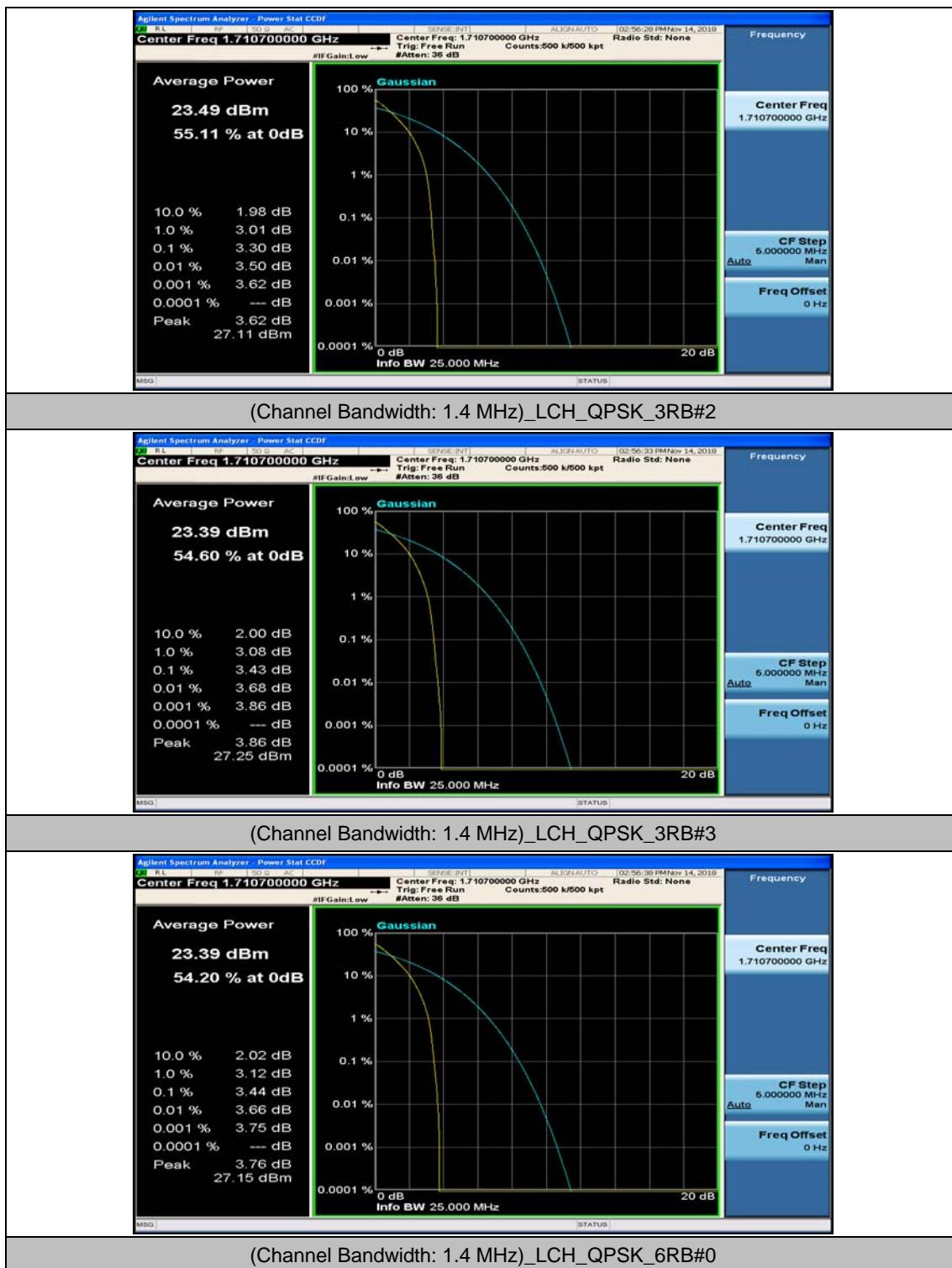
Channel Bandwidth: 20 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	LCH	1	0	3.35	<13	PASS
		1	49	4.33	<13	PASS
		1	99	3.89	<13	PASS

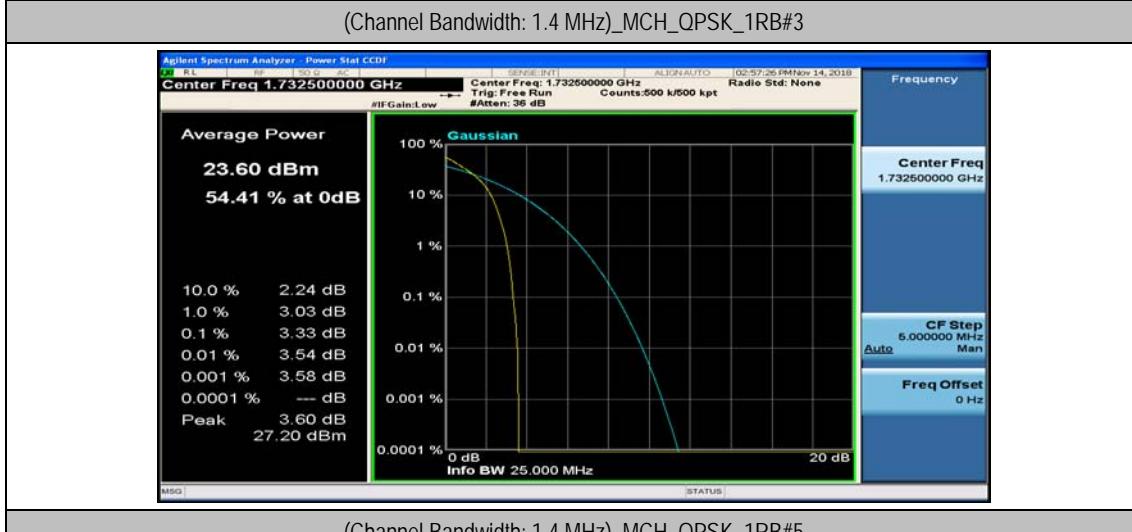
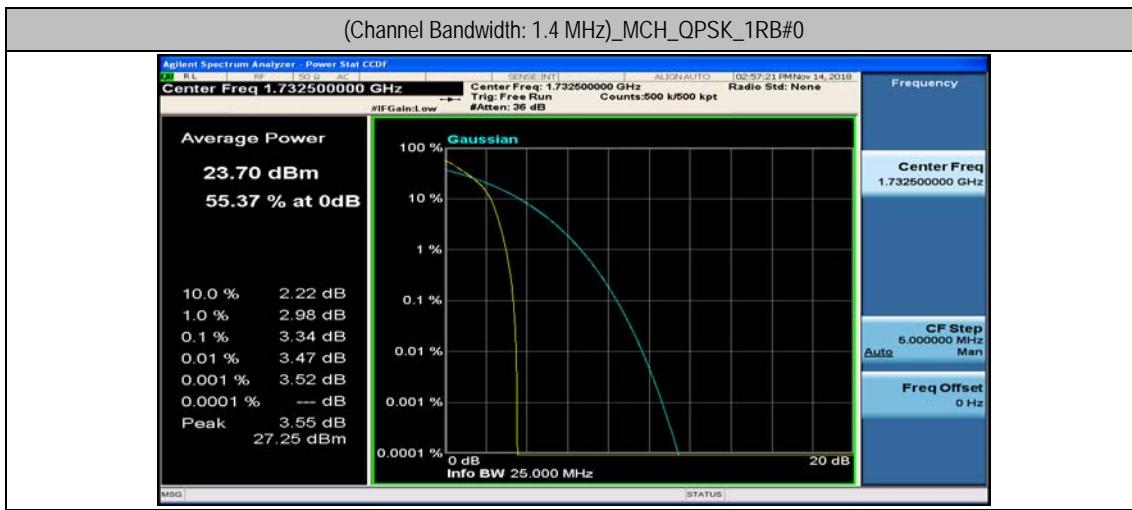
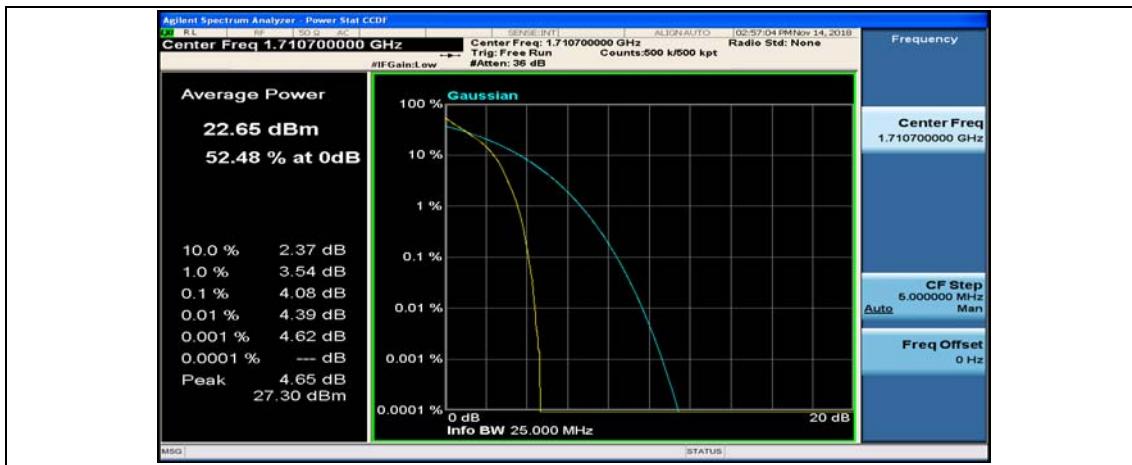
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		50	25	5.39	<13	PASS
		50	50	5.35	<13	PASS
		100	0	5.38	<13	PASS
MCH	MCH	1	0	4.05	<13	PASS
		1	49	3.58	<13	PASS
		1	99	3.60	<13	PASS
		50	0	5.01	<13	PASS
		50	25	4.75	<13	PASS
		50	50	4.73	<13	PASS
		100	0	5.05	<13	PASS
HCH	HCH	1	0	3.18	<13	PASS
		1	49	3.56	<13	PASS
		1	99	3.68	<13	PASS
		50	0	4.49	<13	PASS
		50	25	4.59	<13	PASS
		50	50	4.76	<13	PASS
		100	0	4.89	<13	PASS
LCH	LCH	1	0	4.27	<13	PASS
		1	49	5.32	<13	PASS
		1	99	4.58	<13	PASS
		50	0	5.92	<13	PASS
		50	25	6.13	<13	PASS
		50	50	6.06	<13	PASS
		100	0	6.08	<13	PASS
16QAM	MCH	1	0	4.95	<13	PASS
		1	49	4.37	<13	PASS
		1	99	4.58	<13	PASS
		50	0	5.73	<13	PASS
		50	25	5.37	<13	PASS
		50	50	5.40	<13	PASS
		100	0	5.75	<13	PASS
HCH	HCH	1	0	4.35	<13	PASS
		1	49	4.52	<13	PASS
		1	99	4.69	<13	PASS
		50	0	5.24	<13	PASS
		50	25	5.35	<13	PASS
		50	50	5.48	<13	PASS
		100	0	5.59	<13	PASS

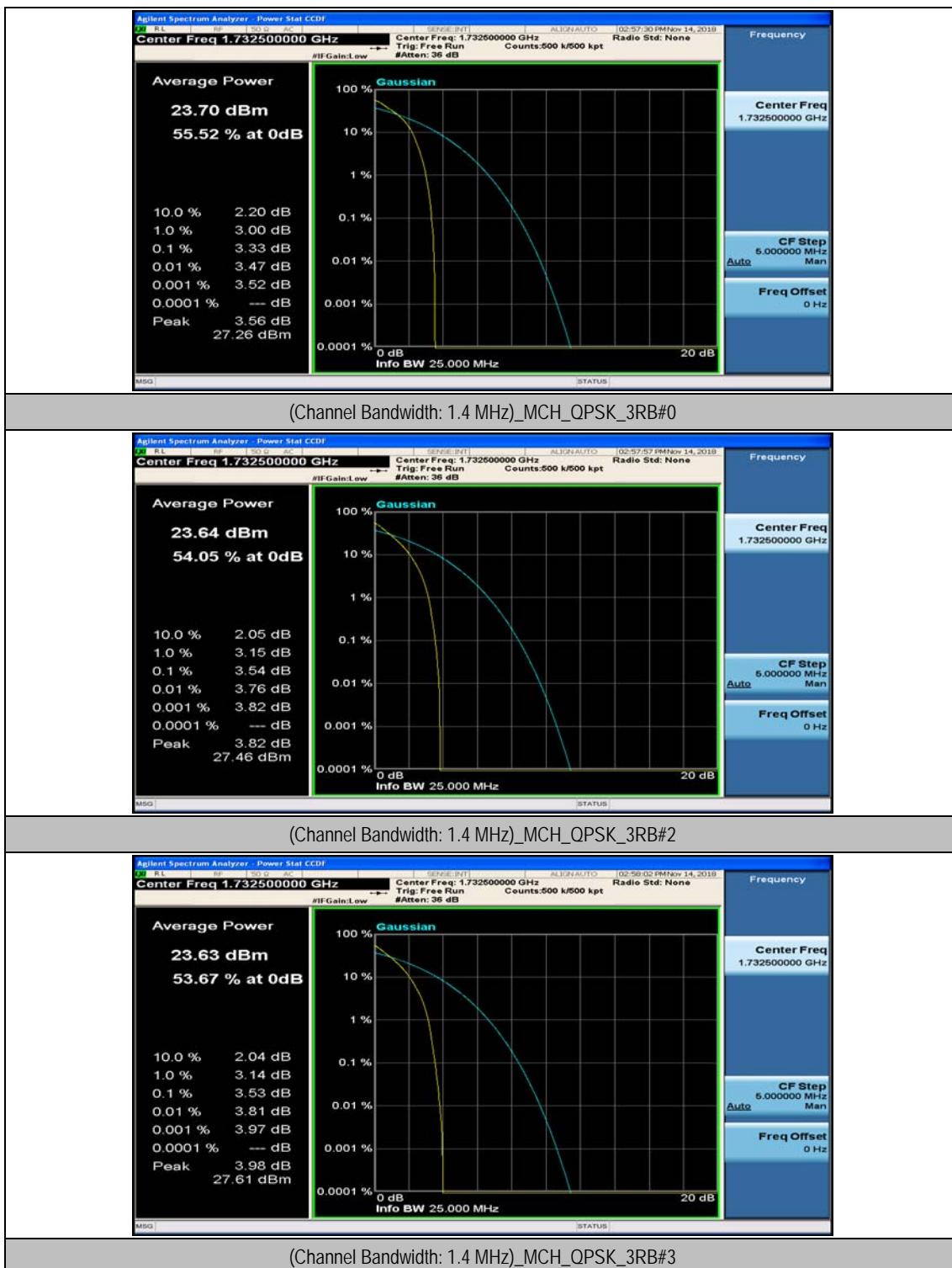
Test Graphs

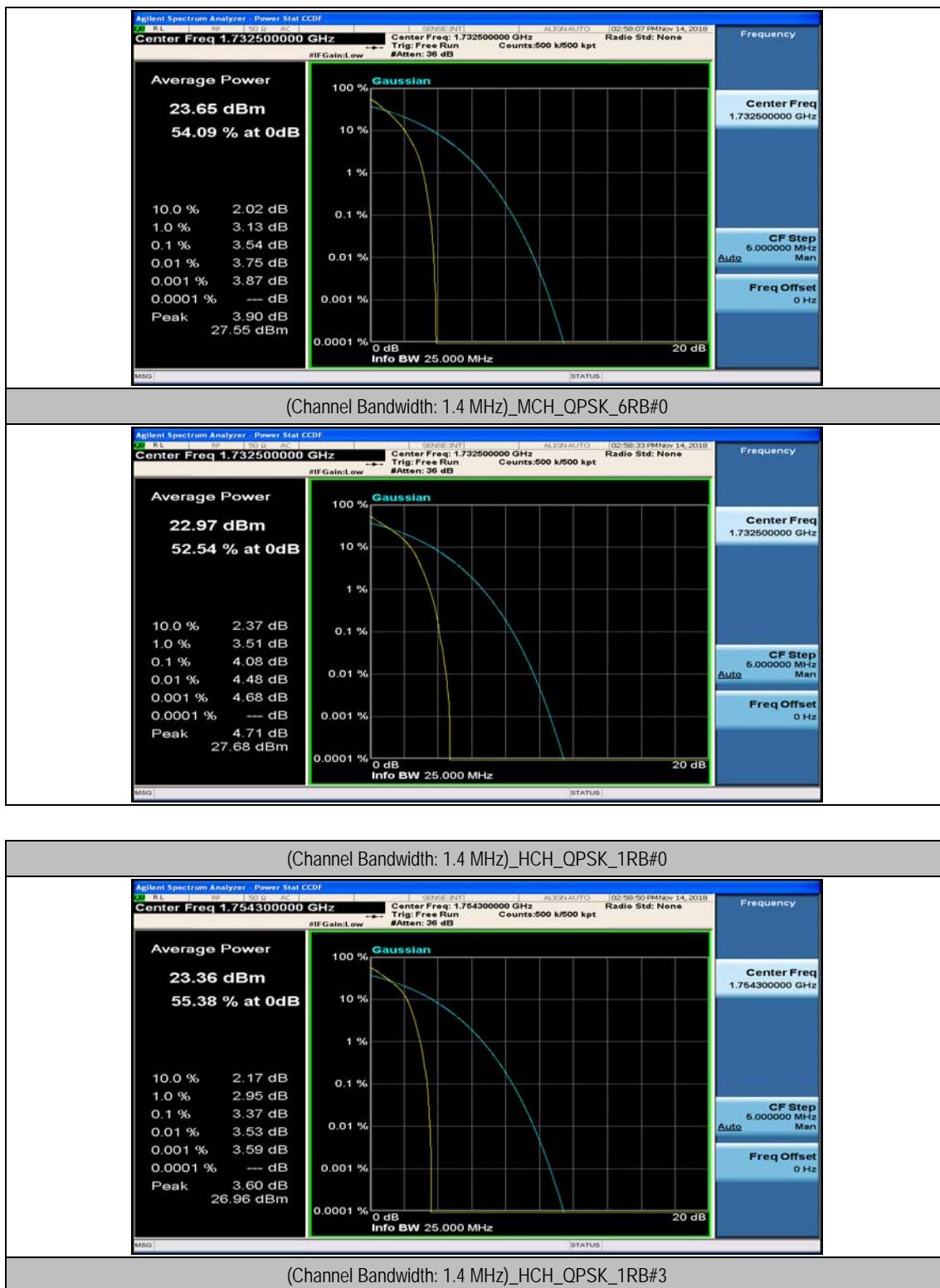
Channel Bandwidth: 1.4 MHz

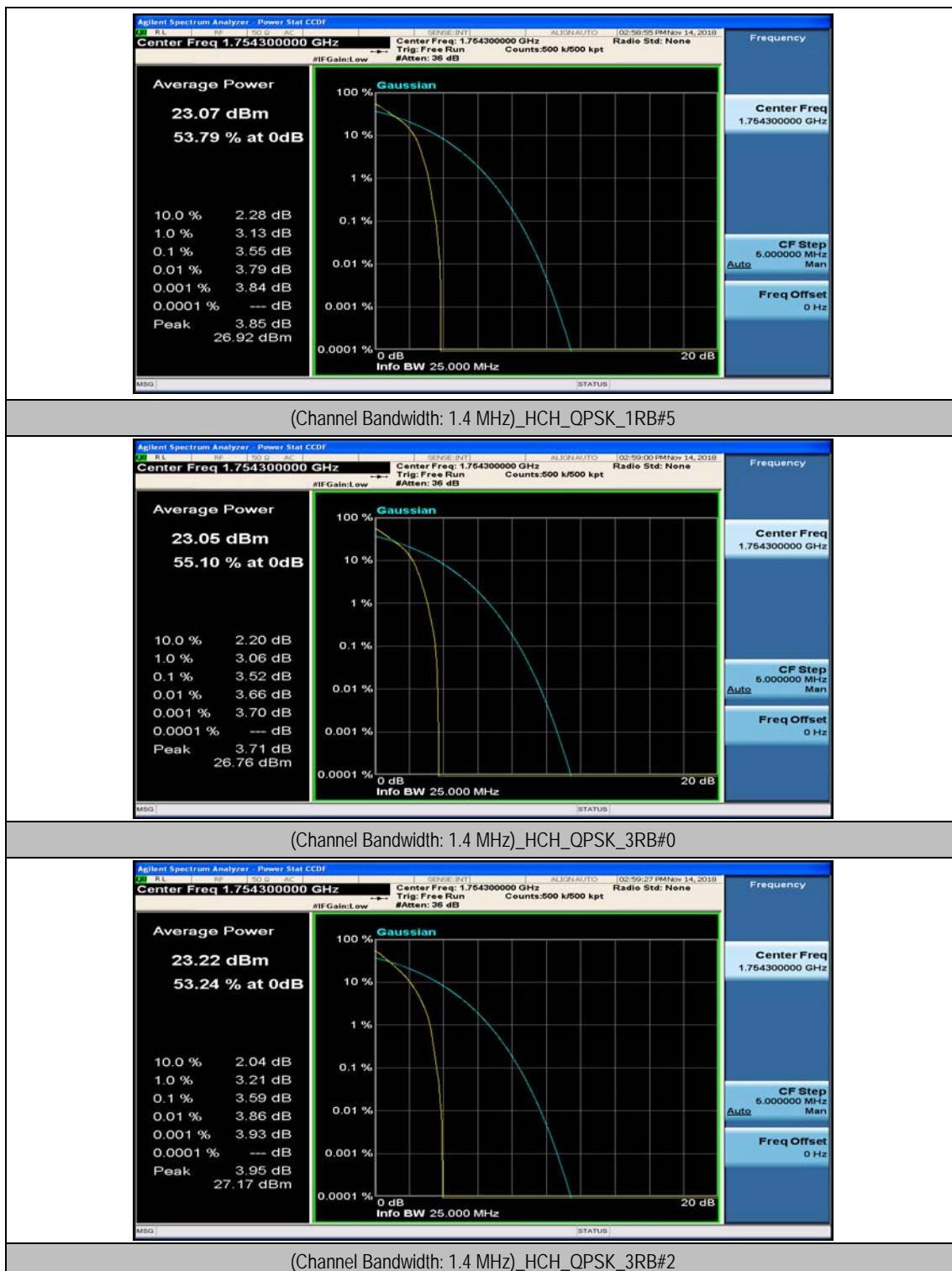


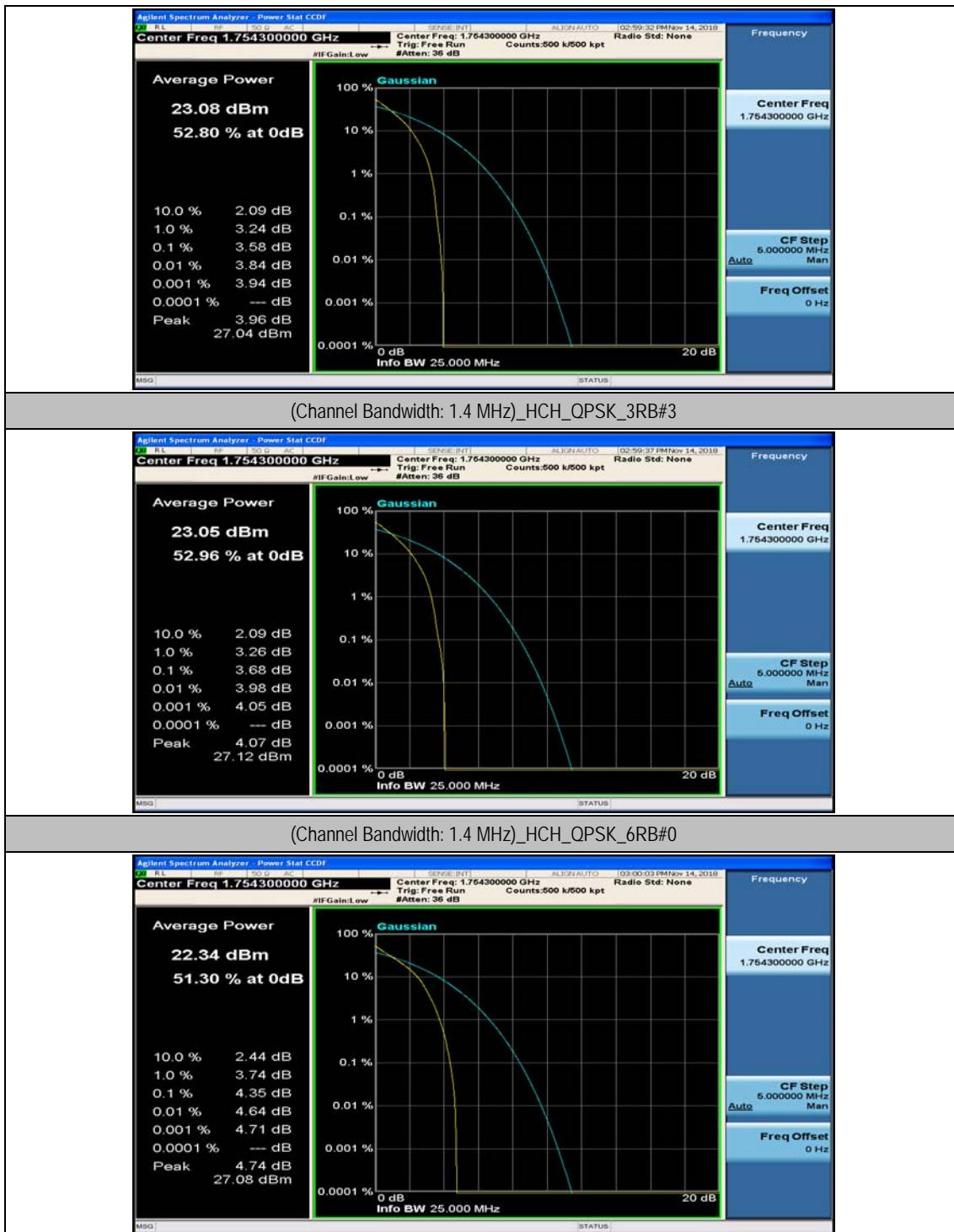


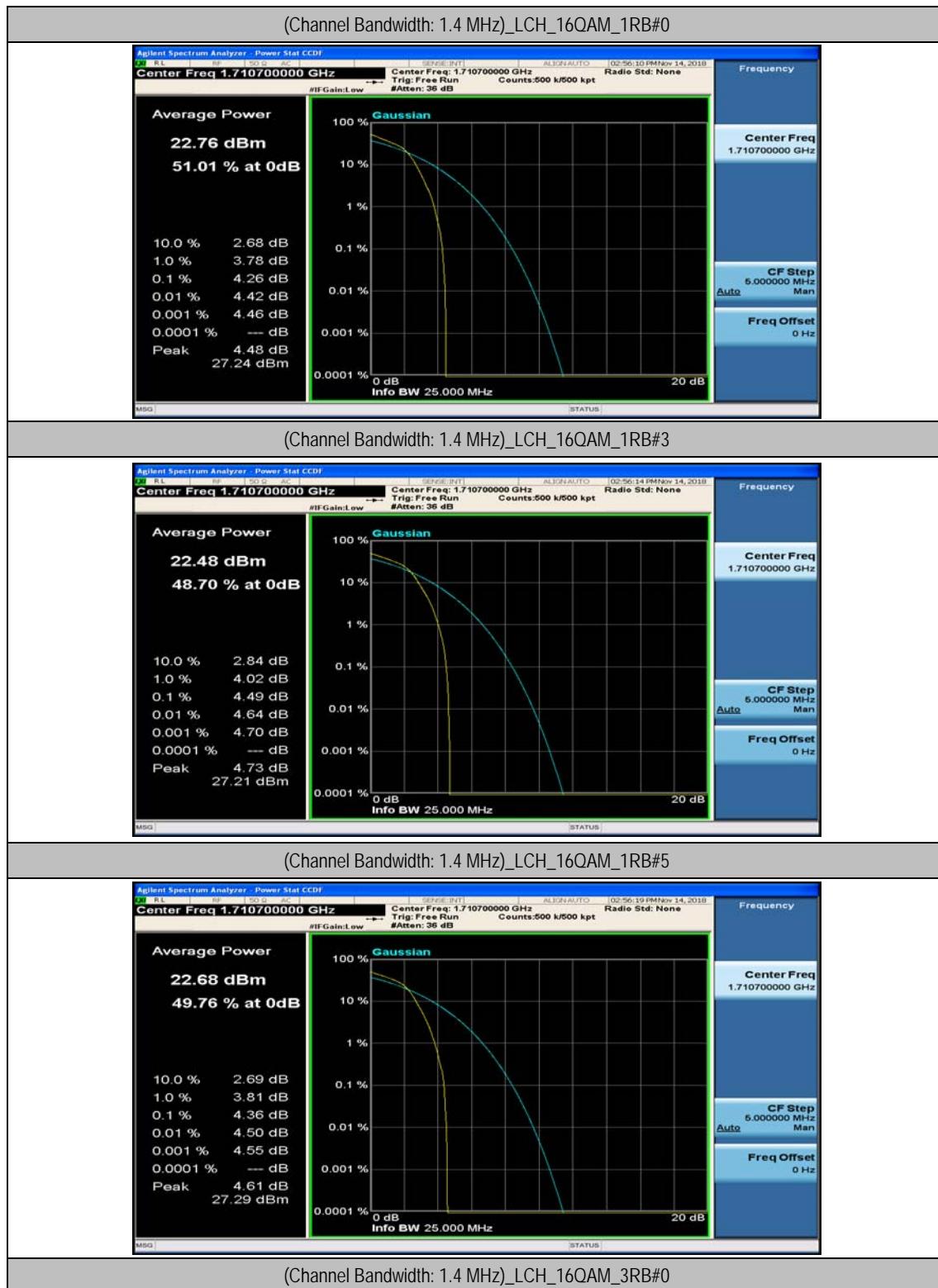


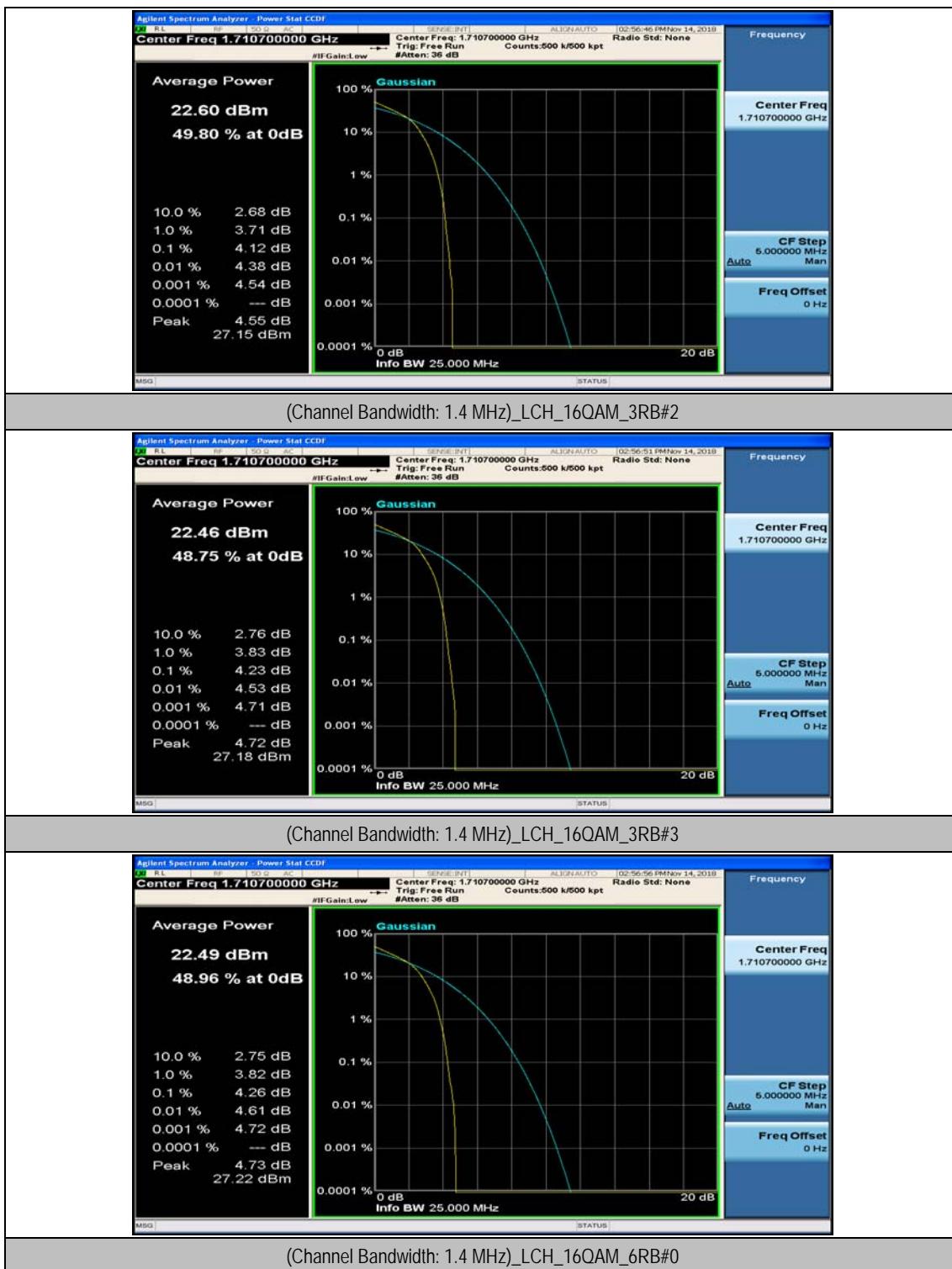


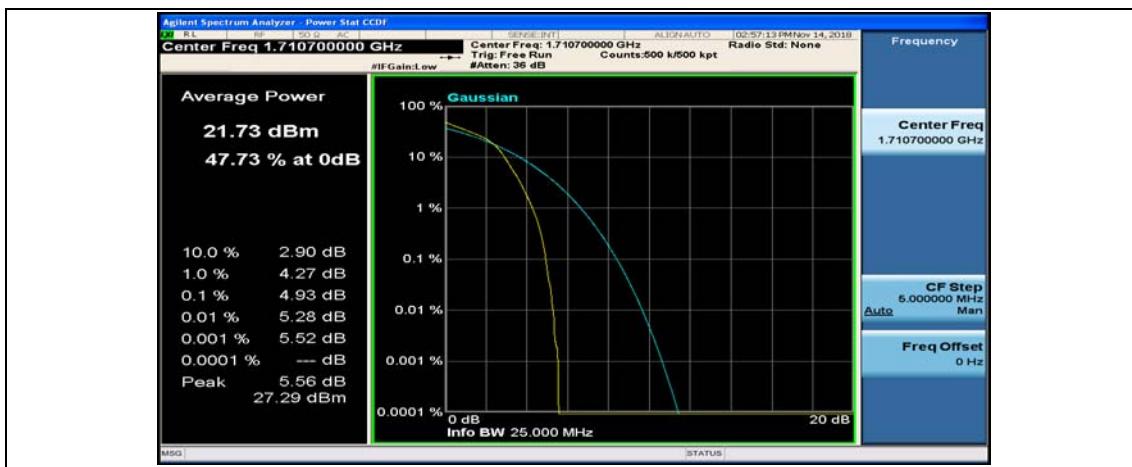


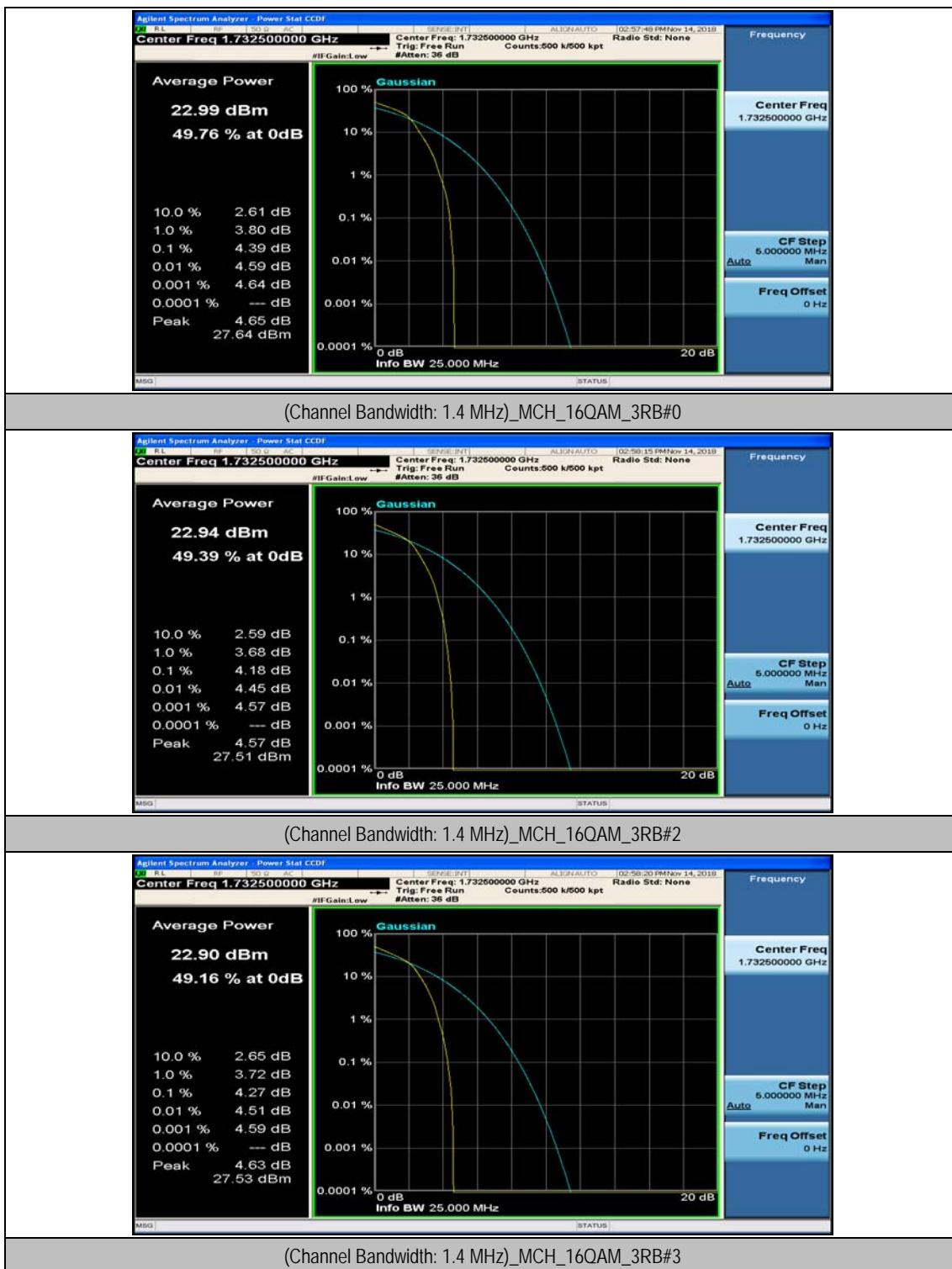


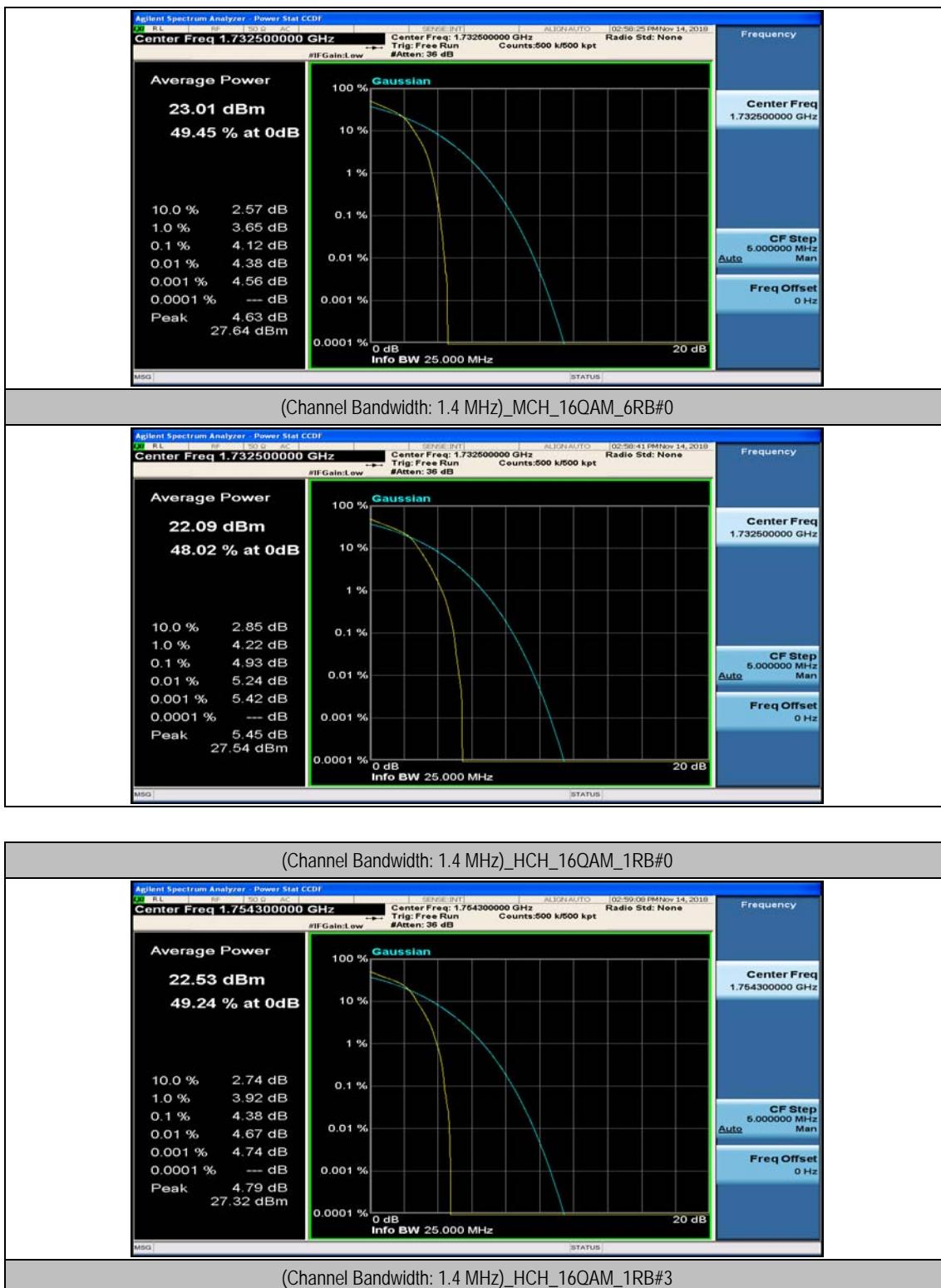


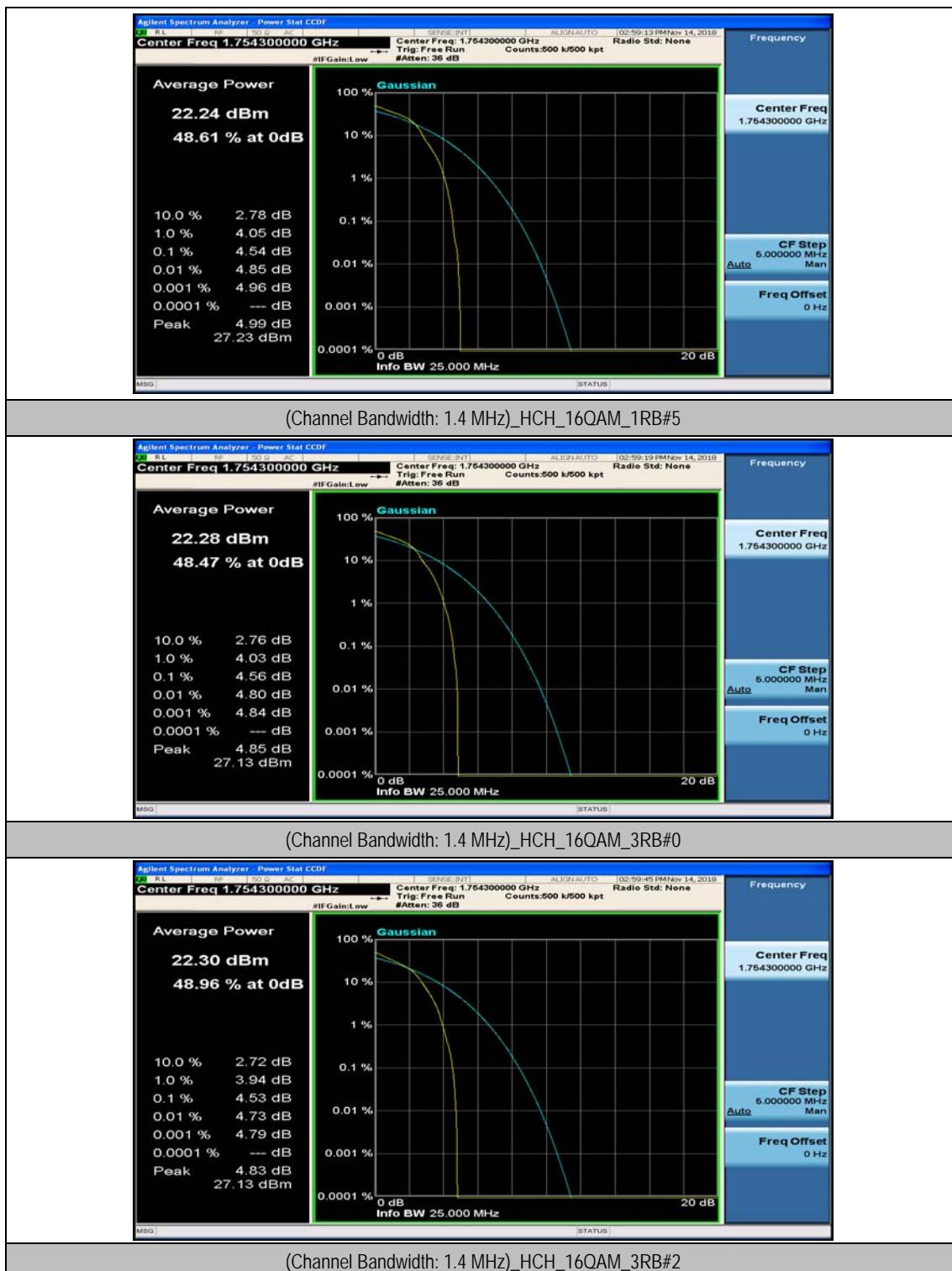


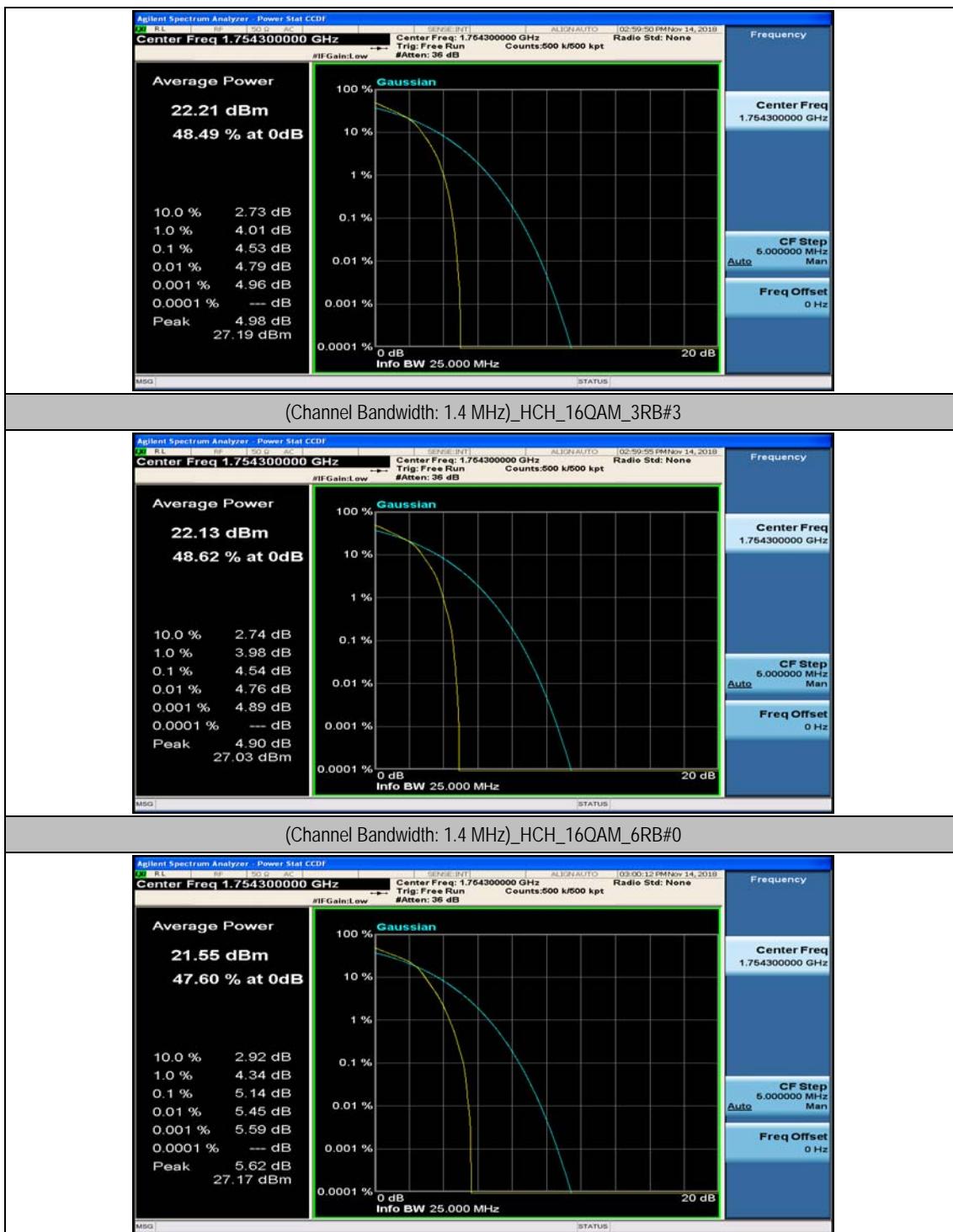




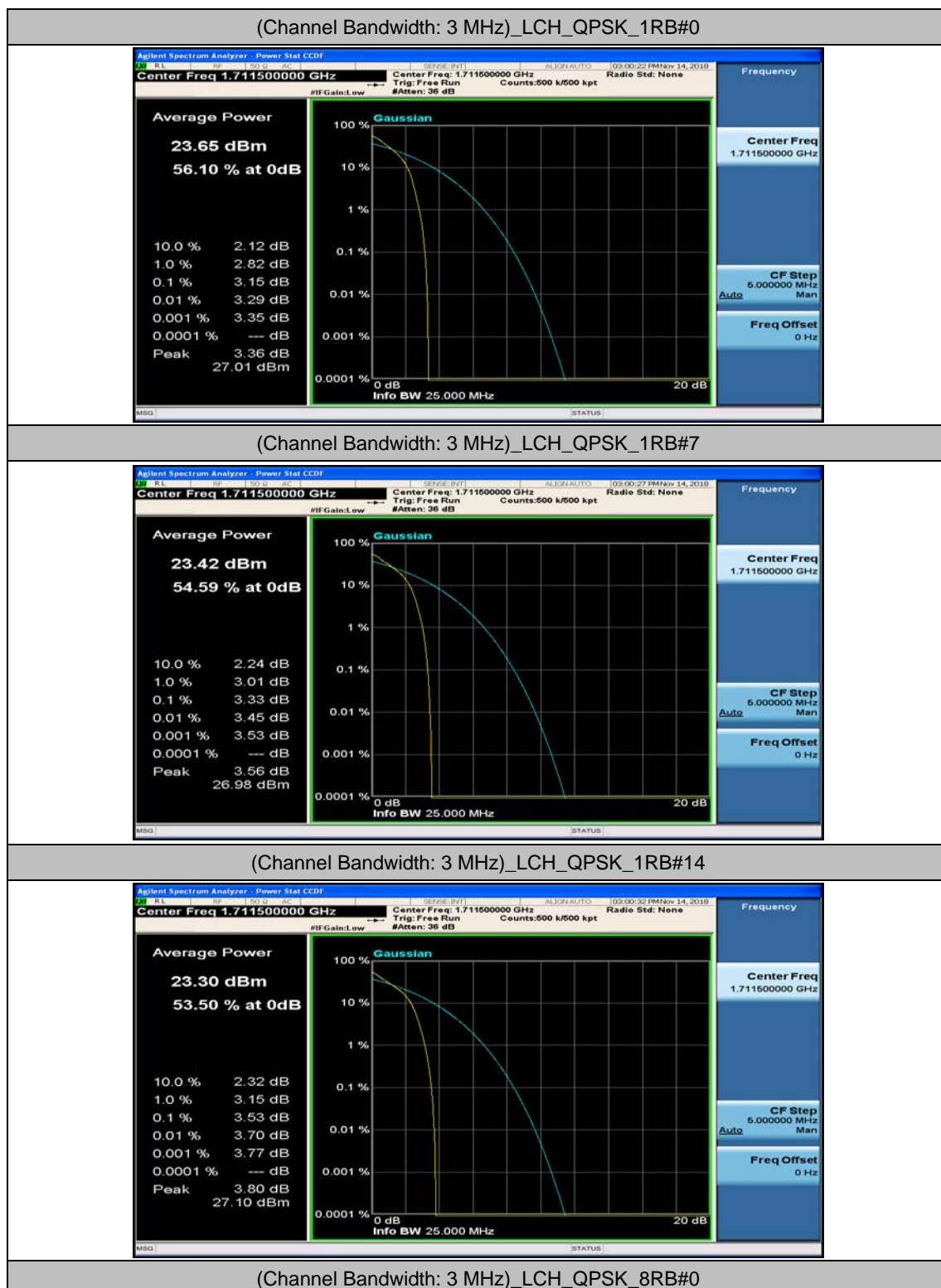


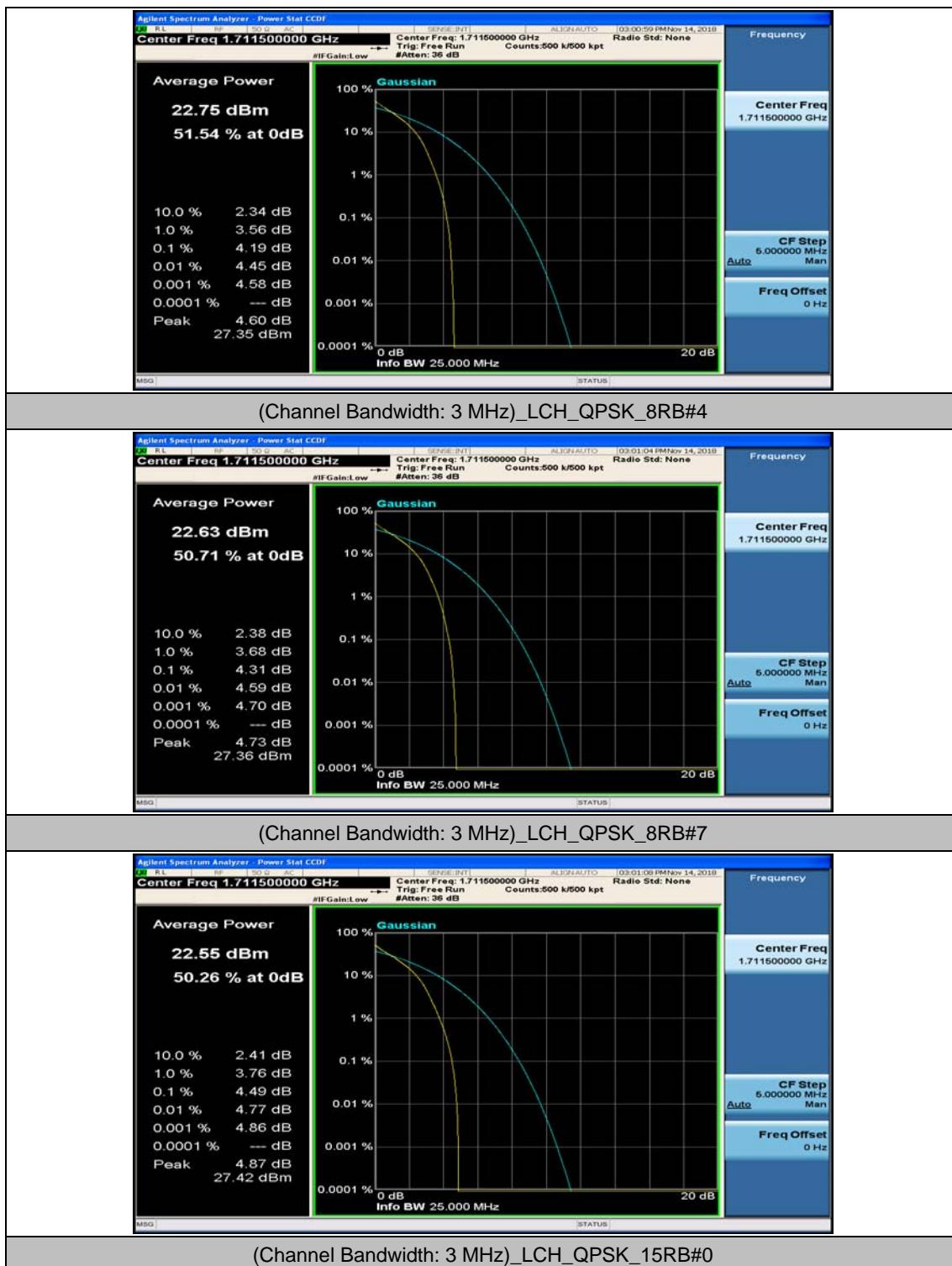


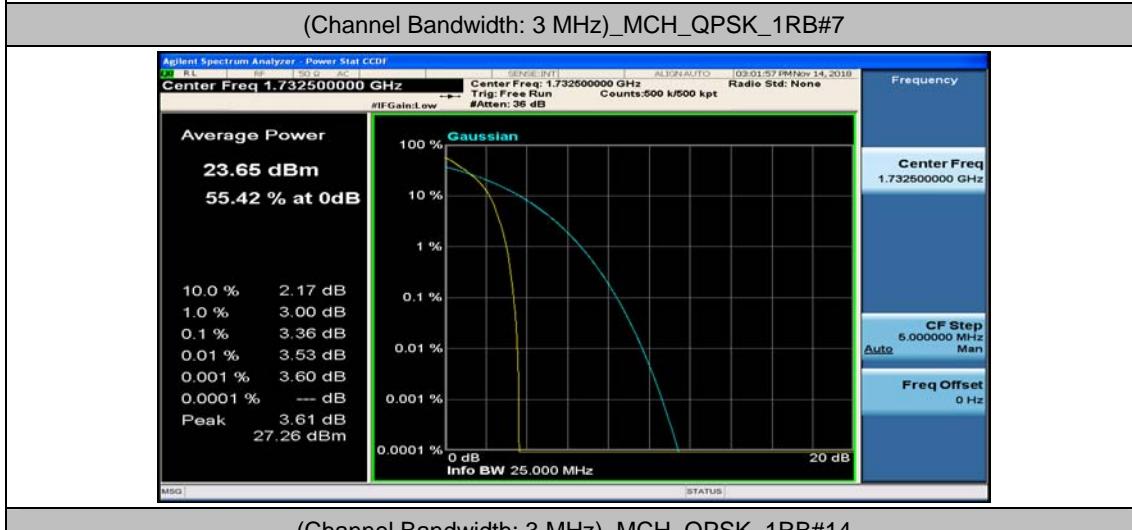
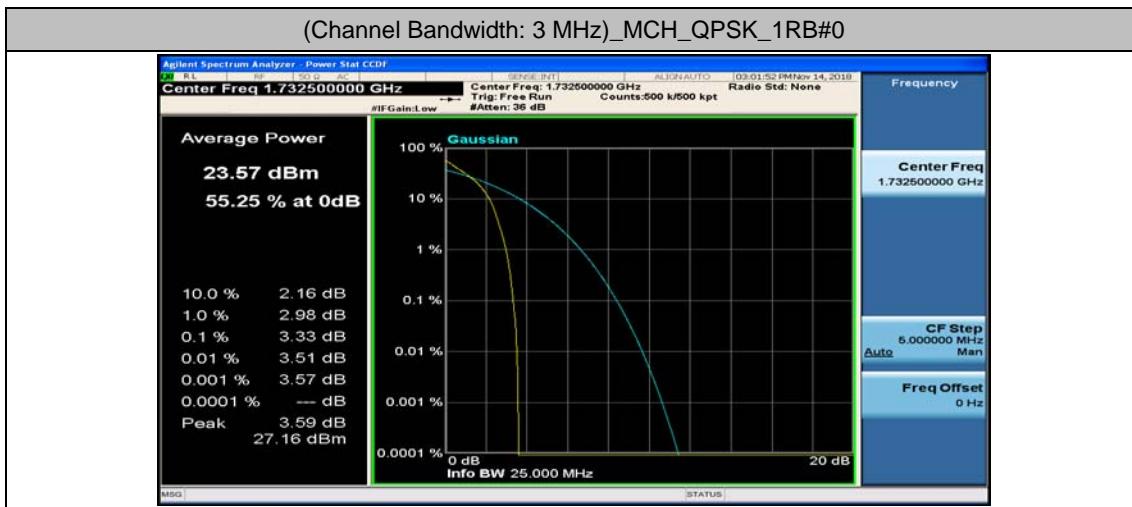
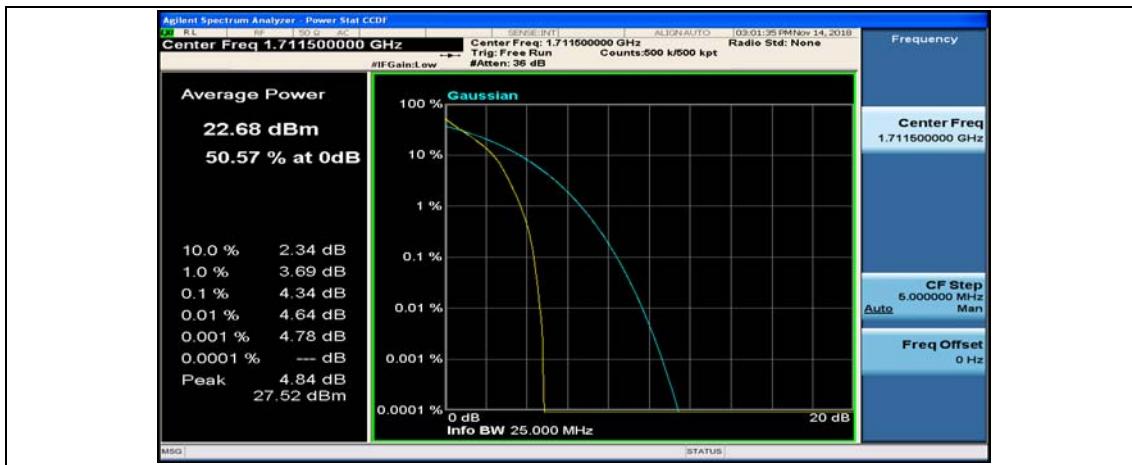




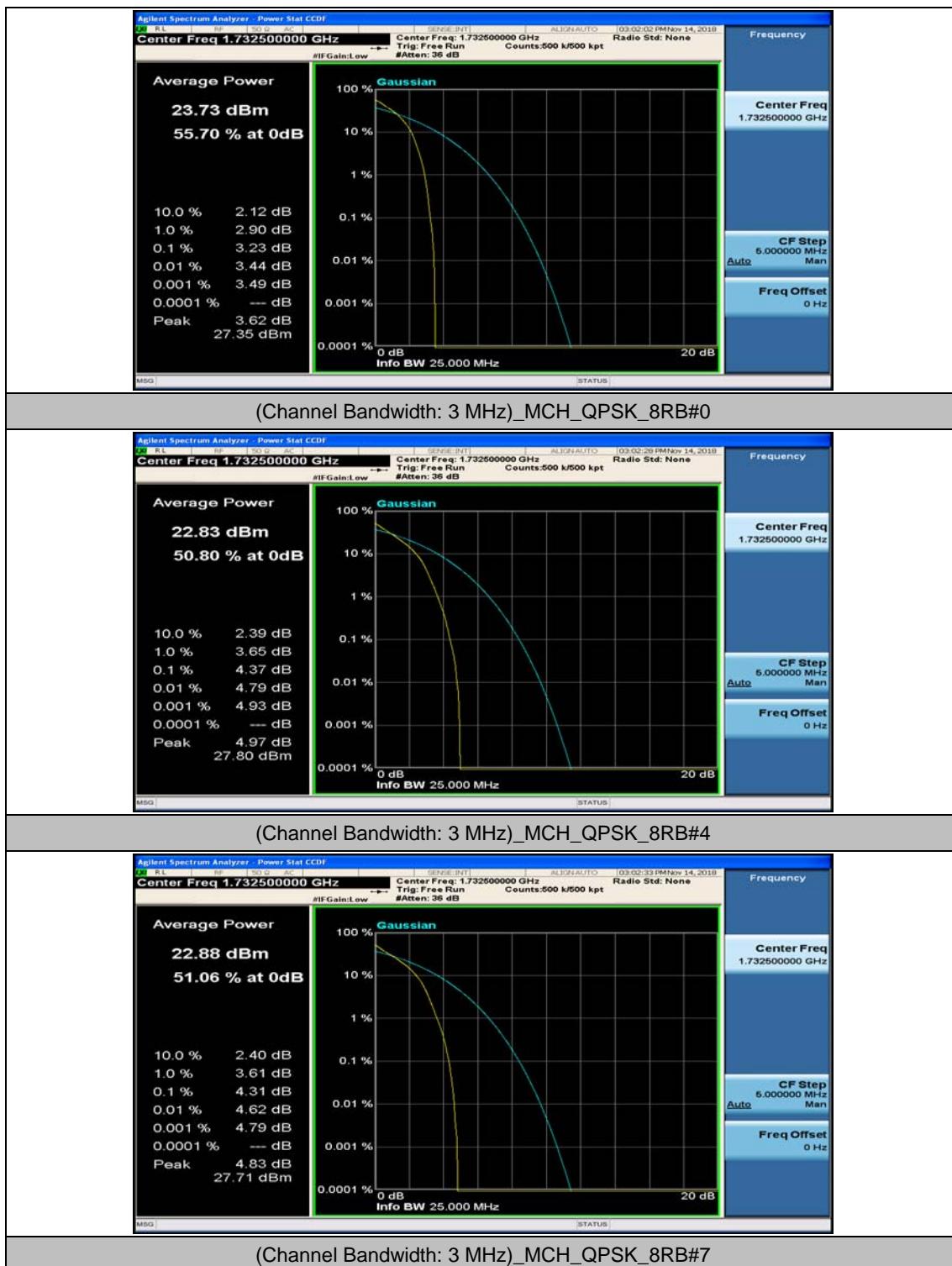
Channel Bandwidth: 3 MHz

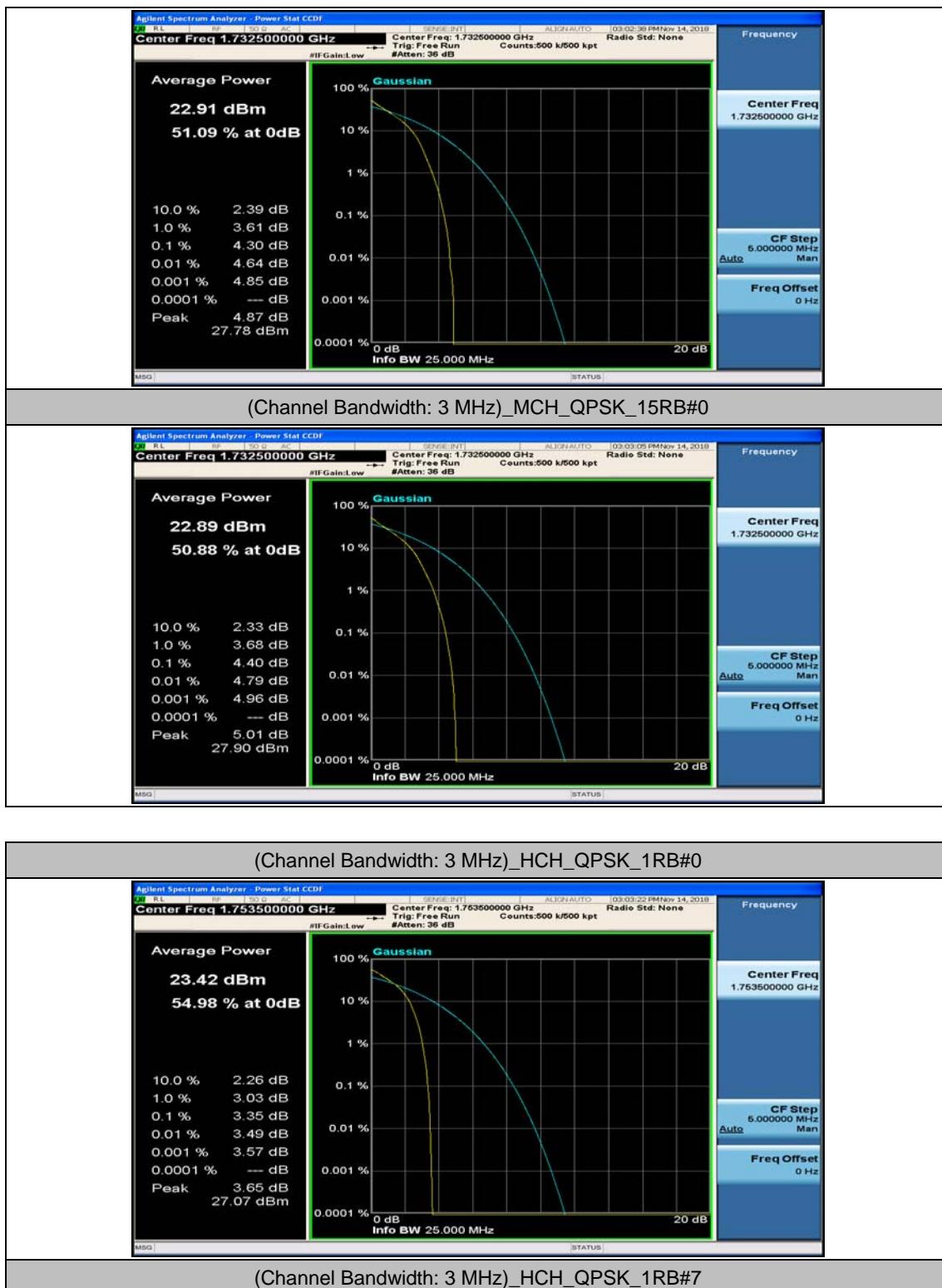


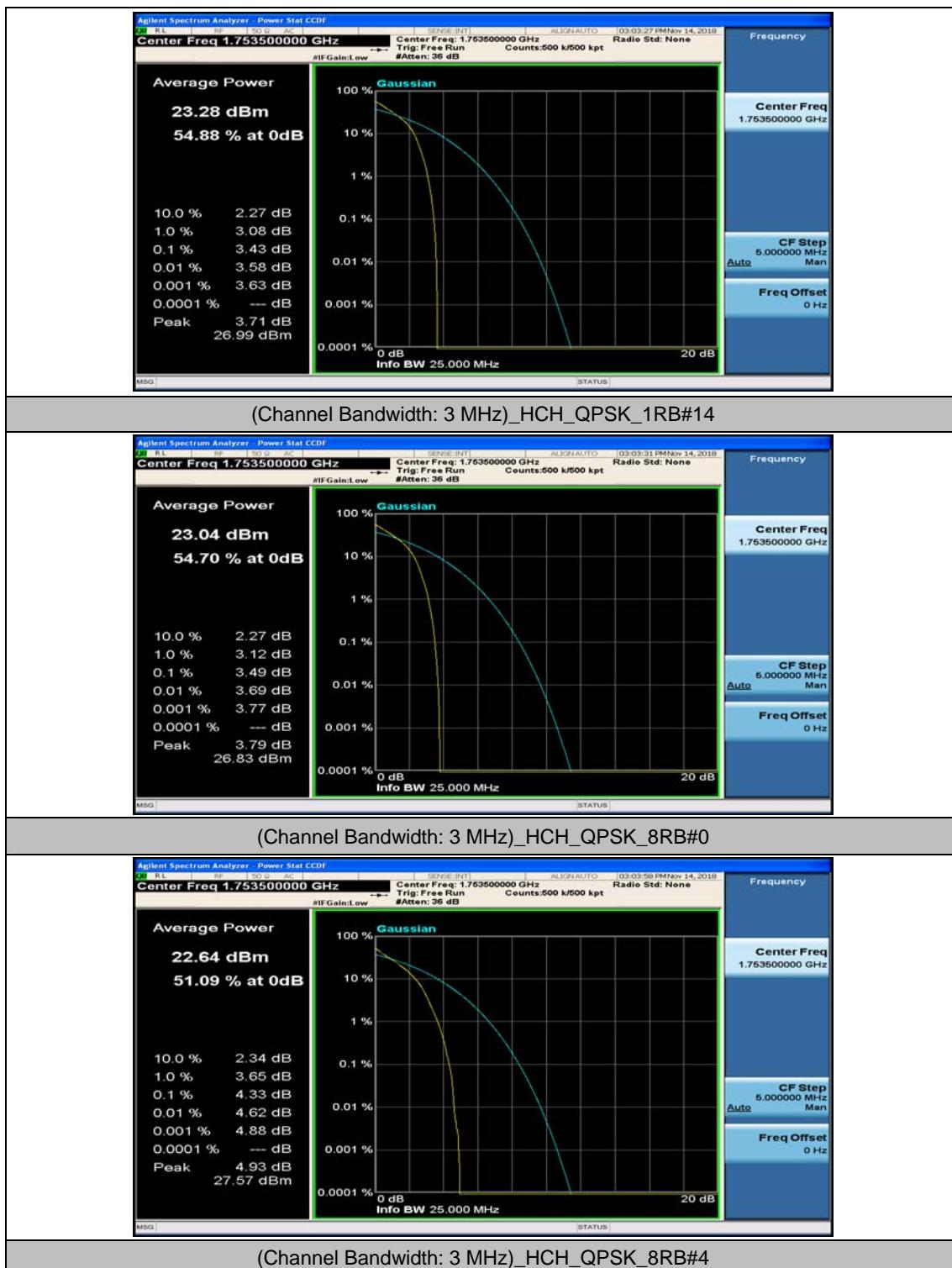


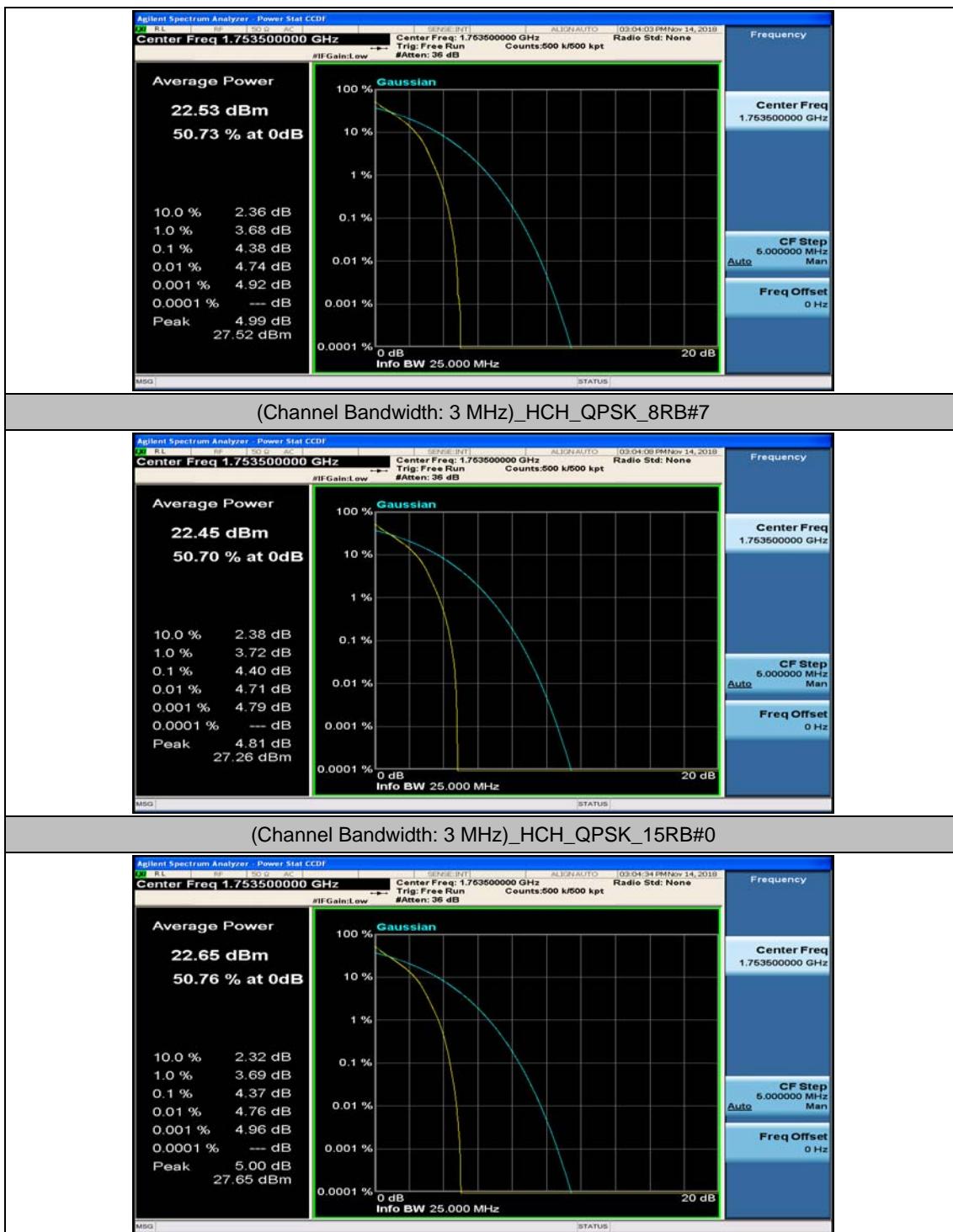


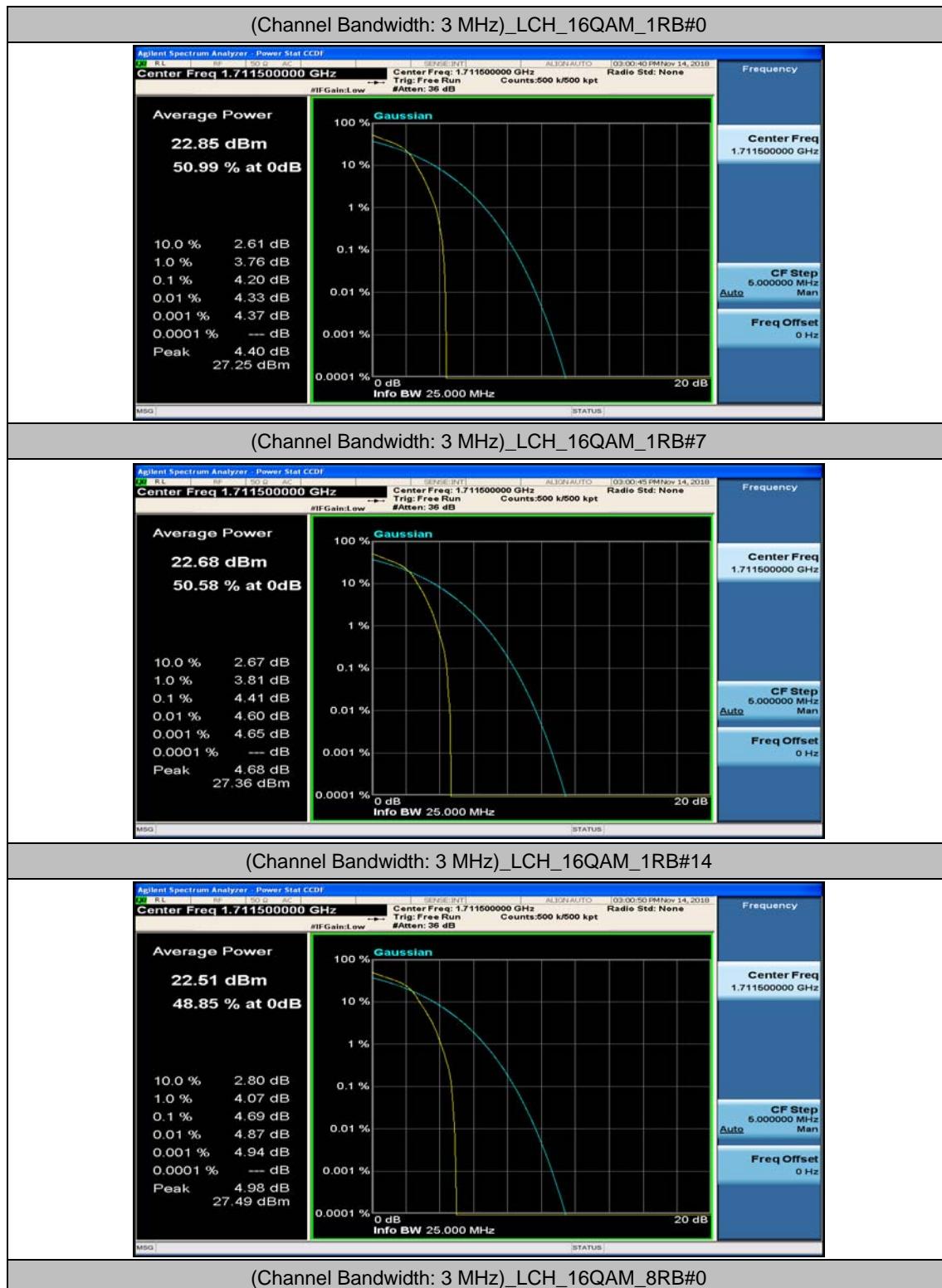
(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#14

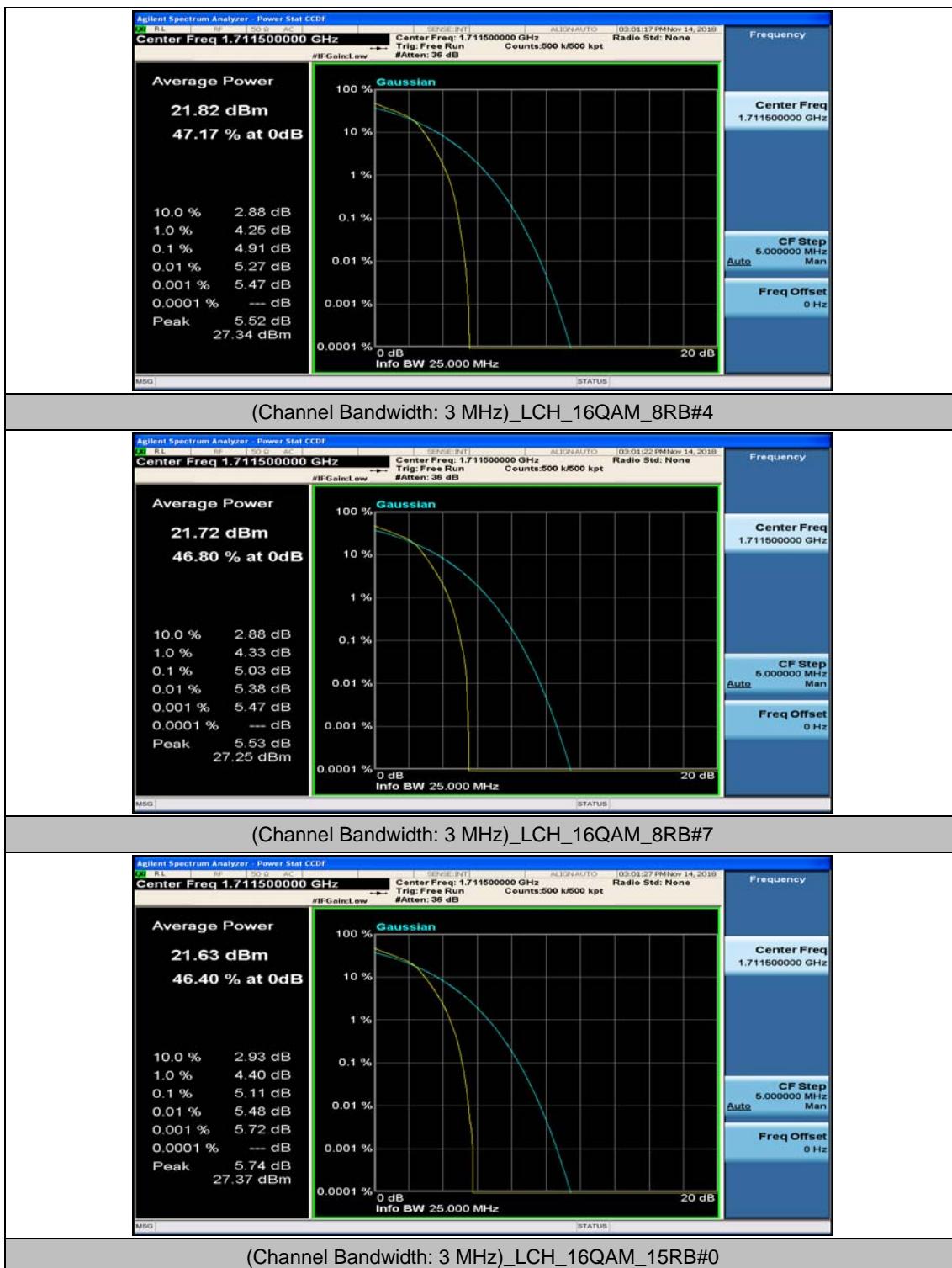


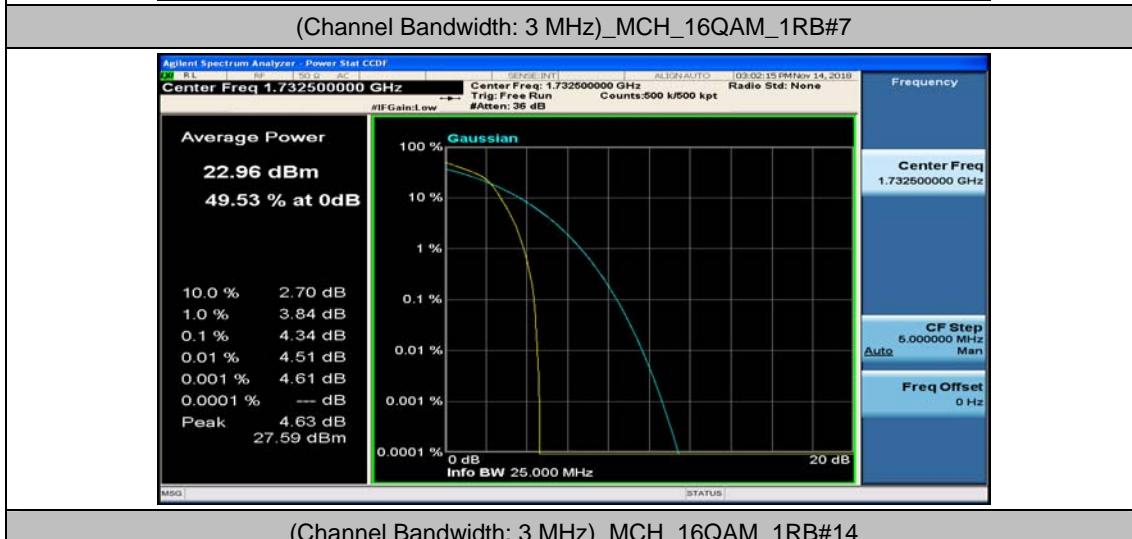
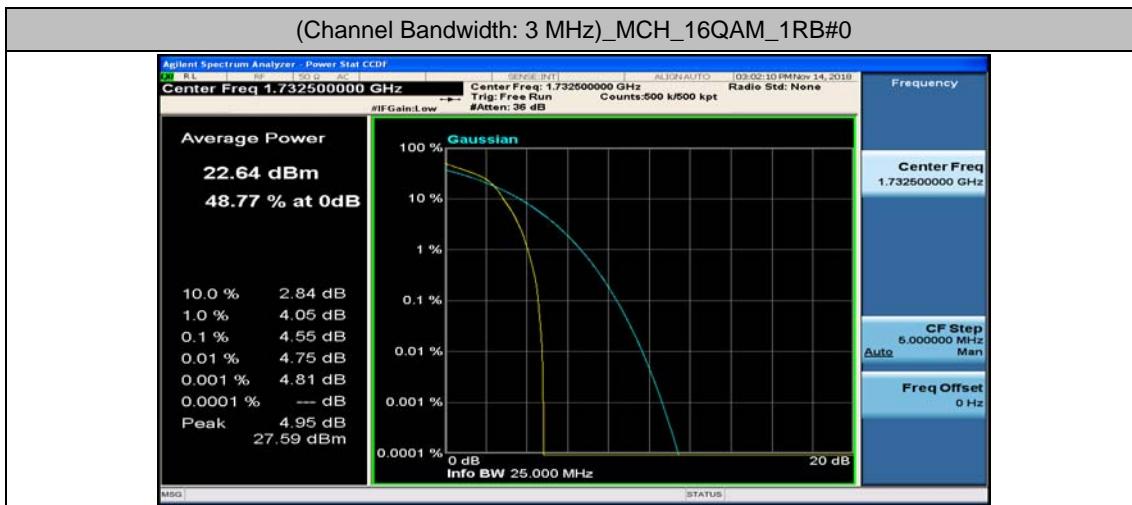
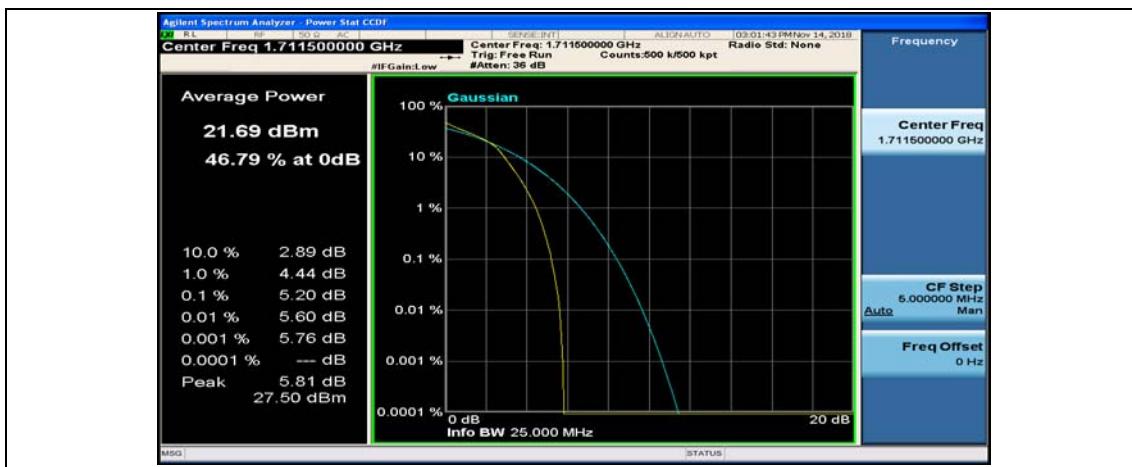




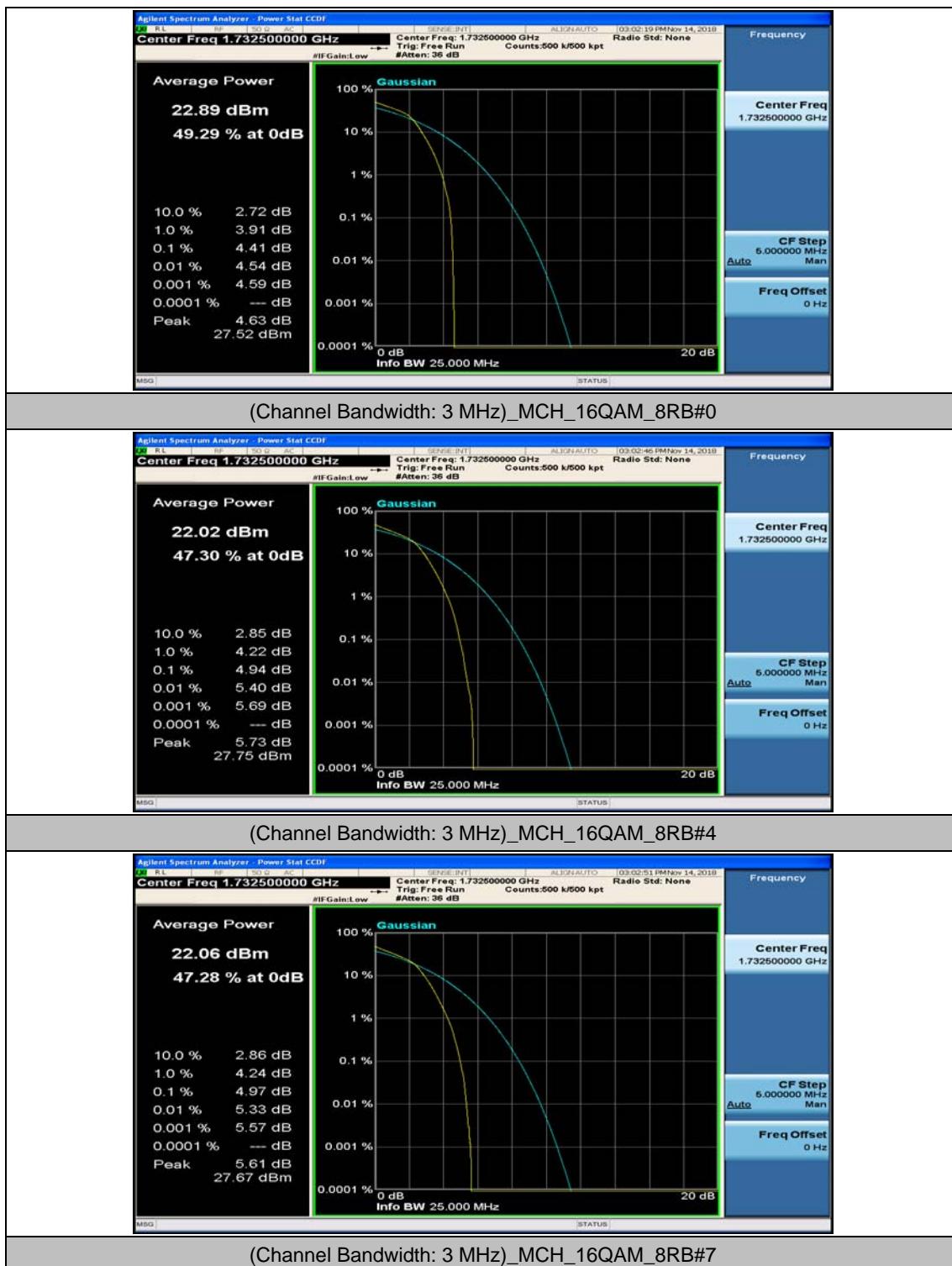


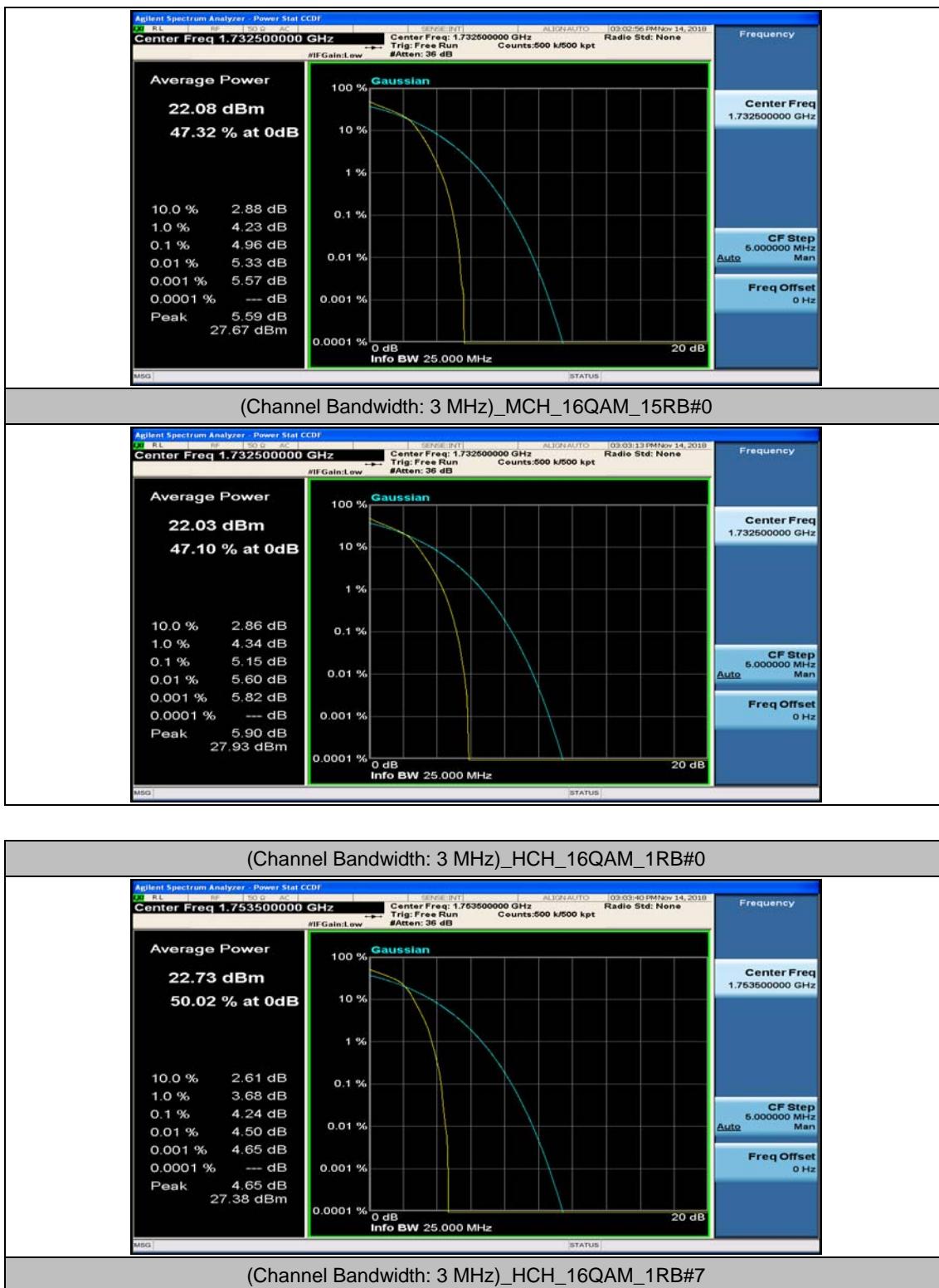


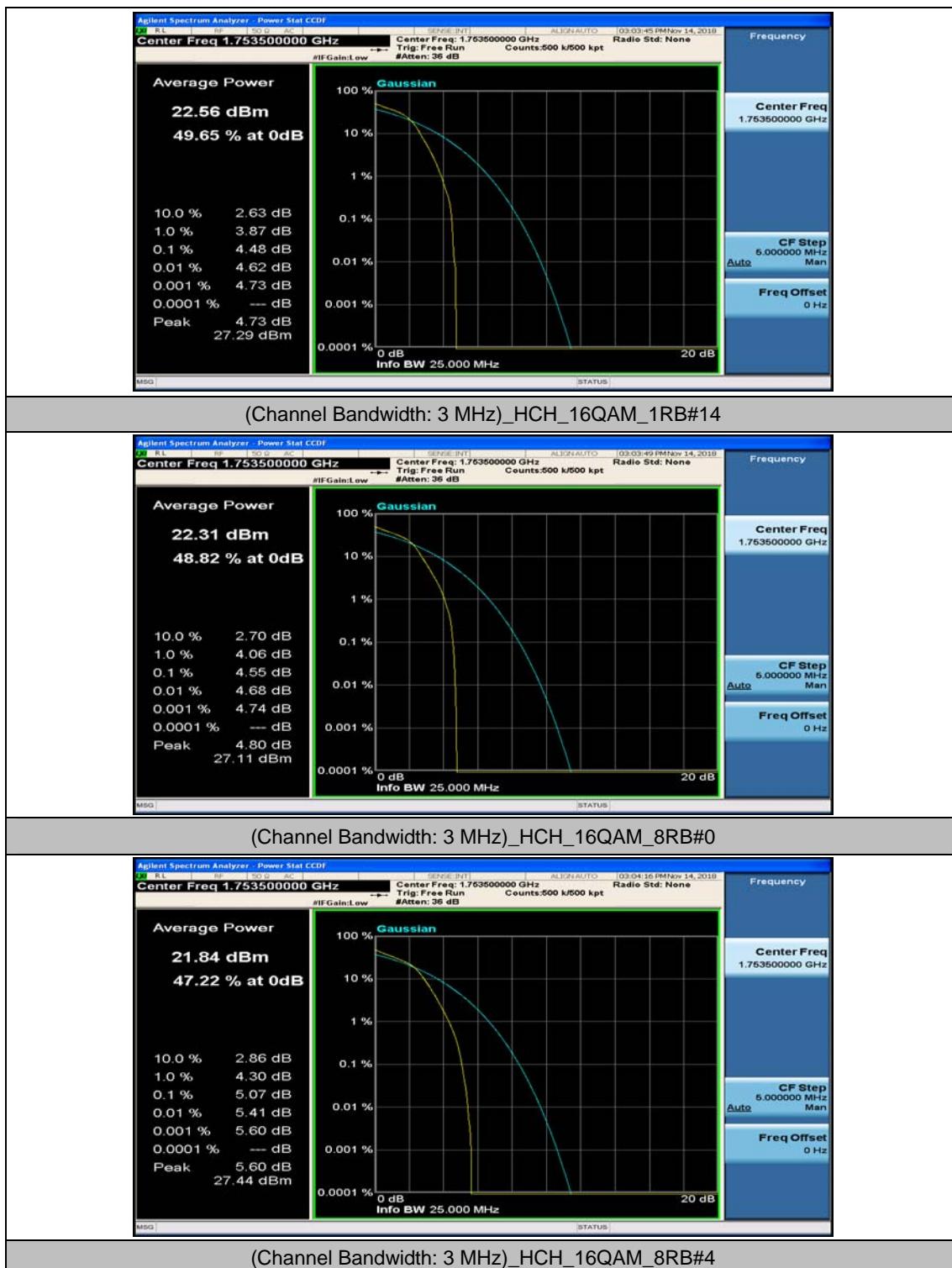


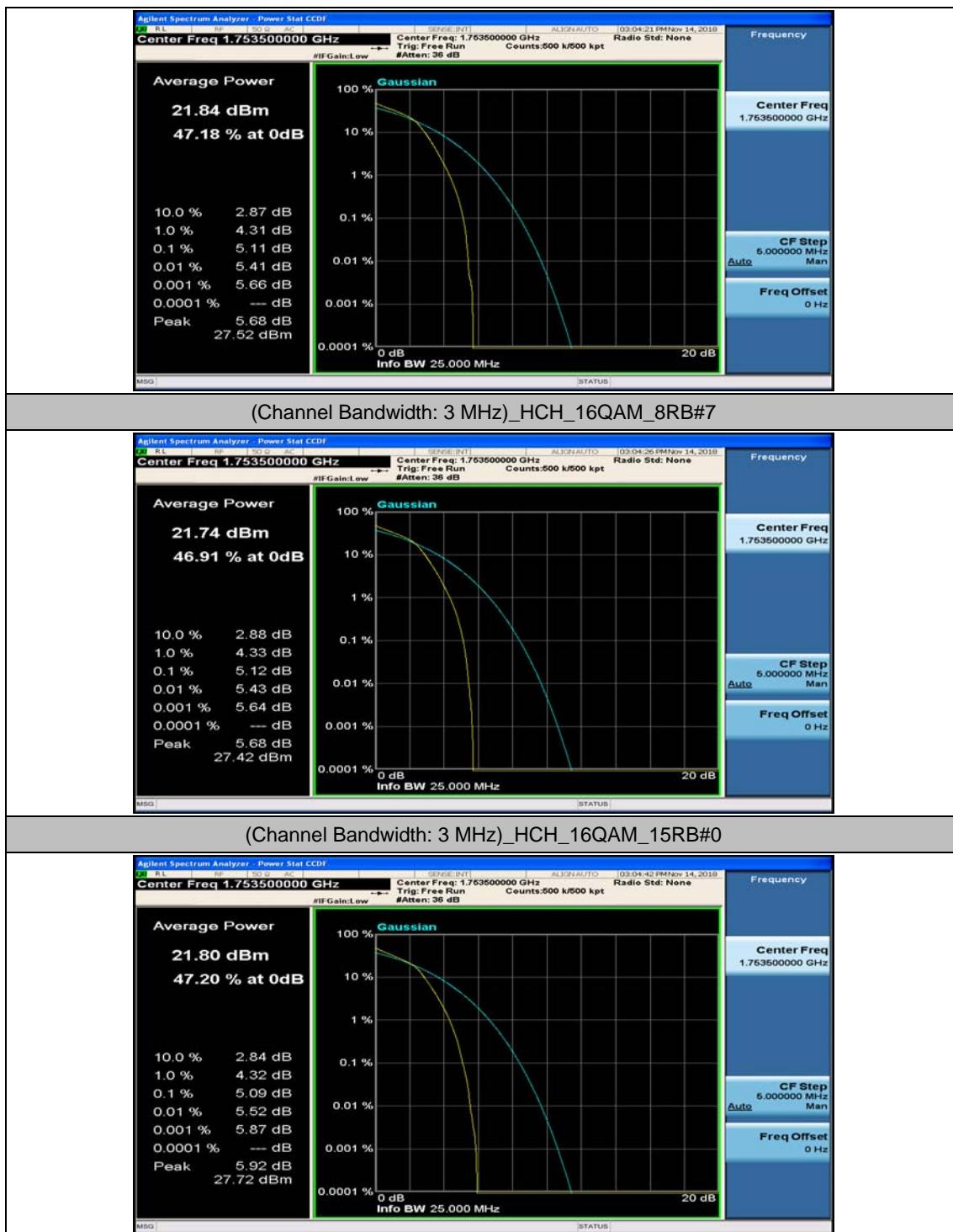


(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#14

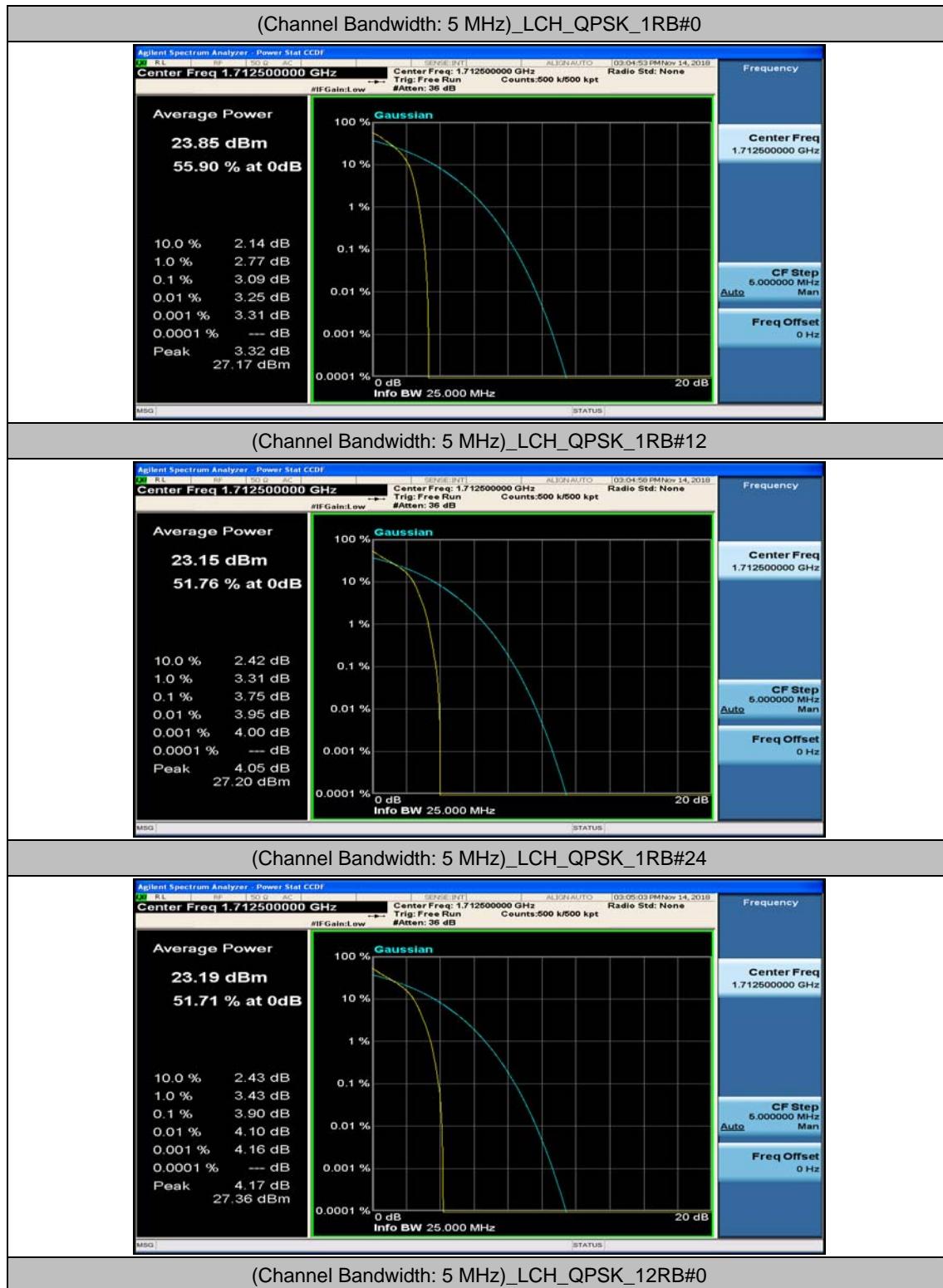


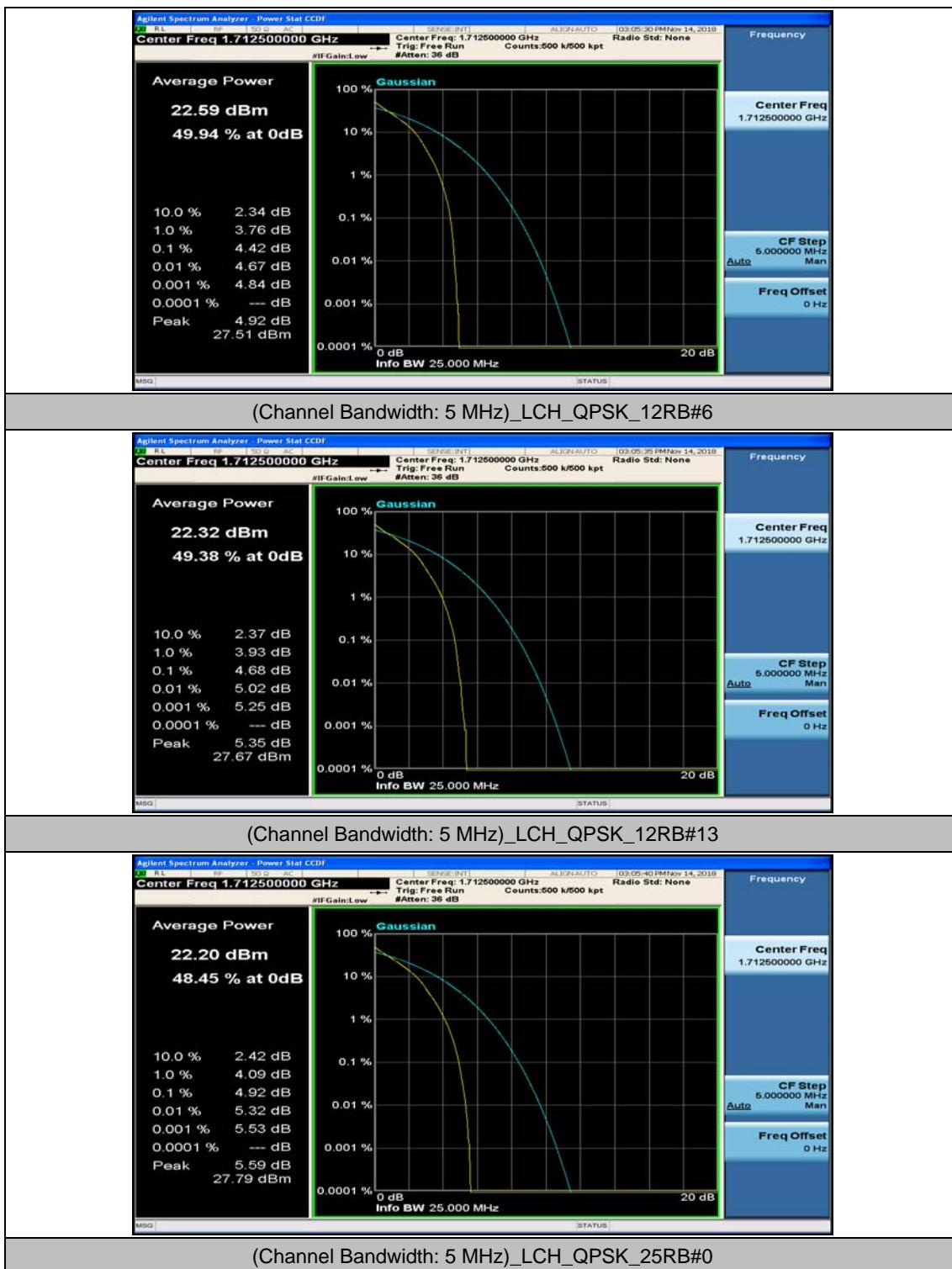


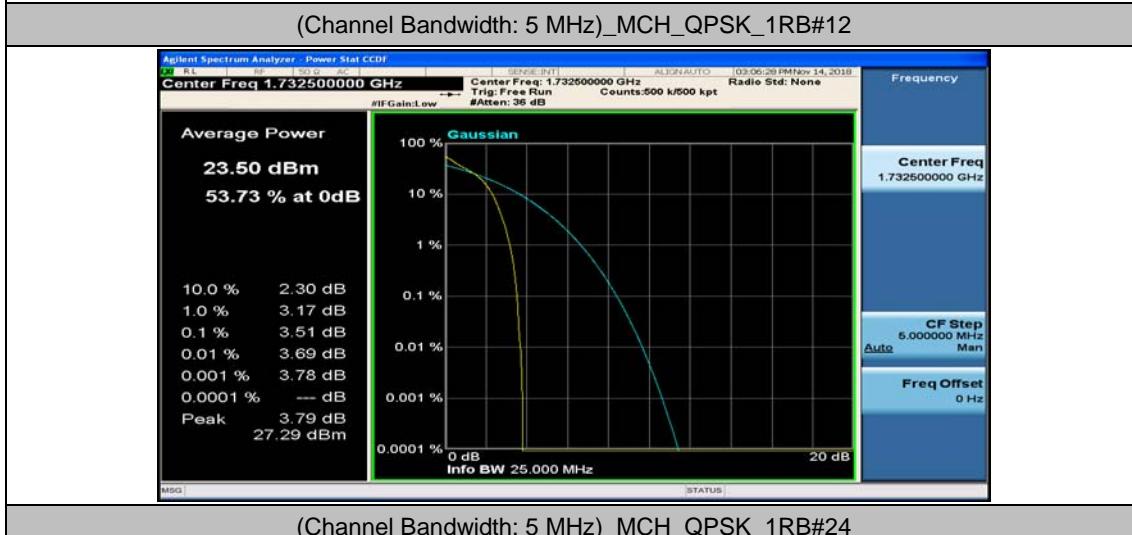
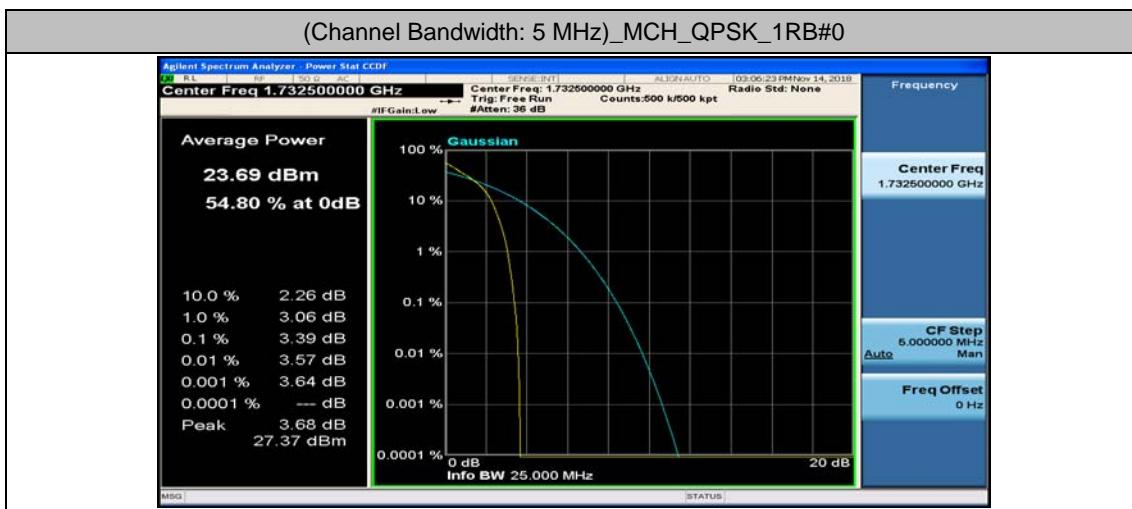
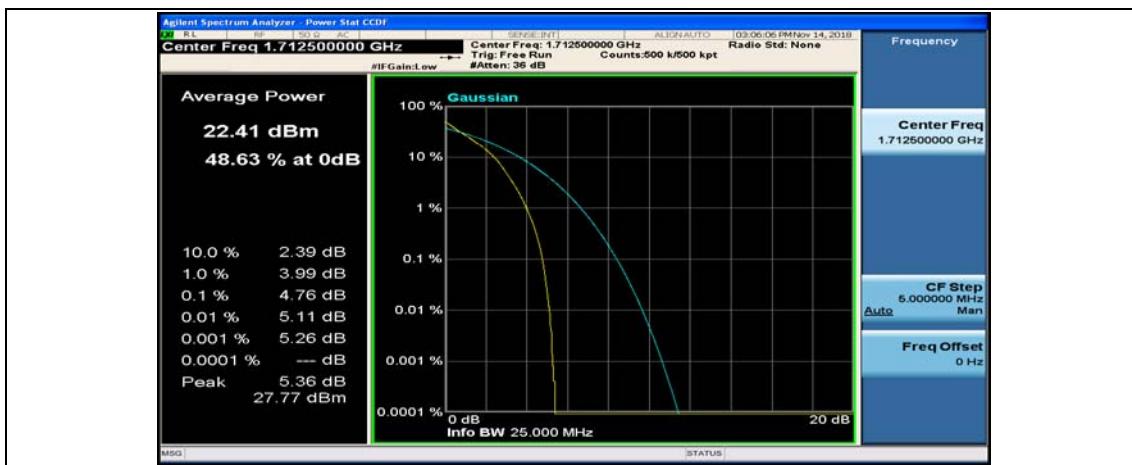




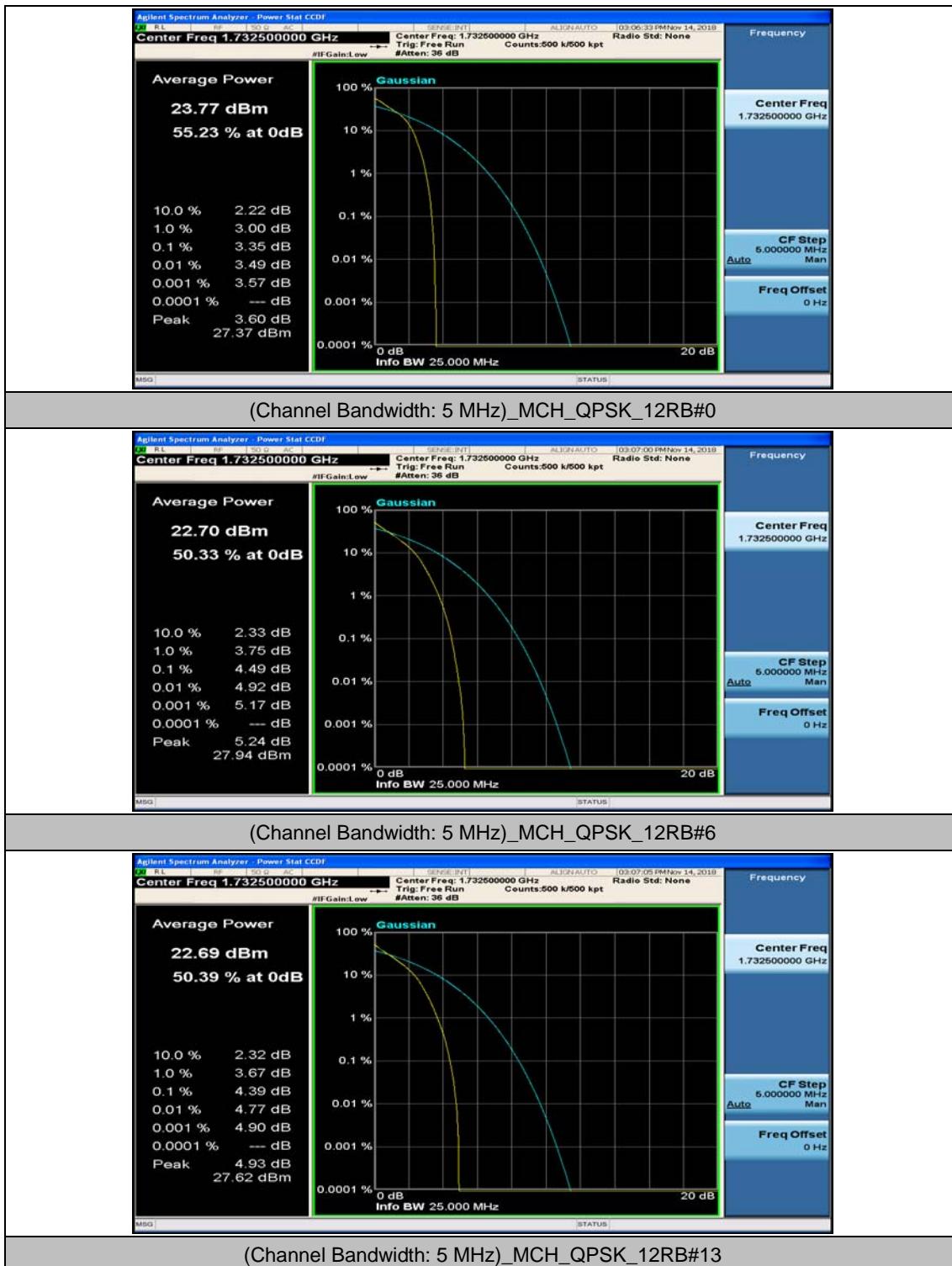
Channel Bandwidth: 5 MHz

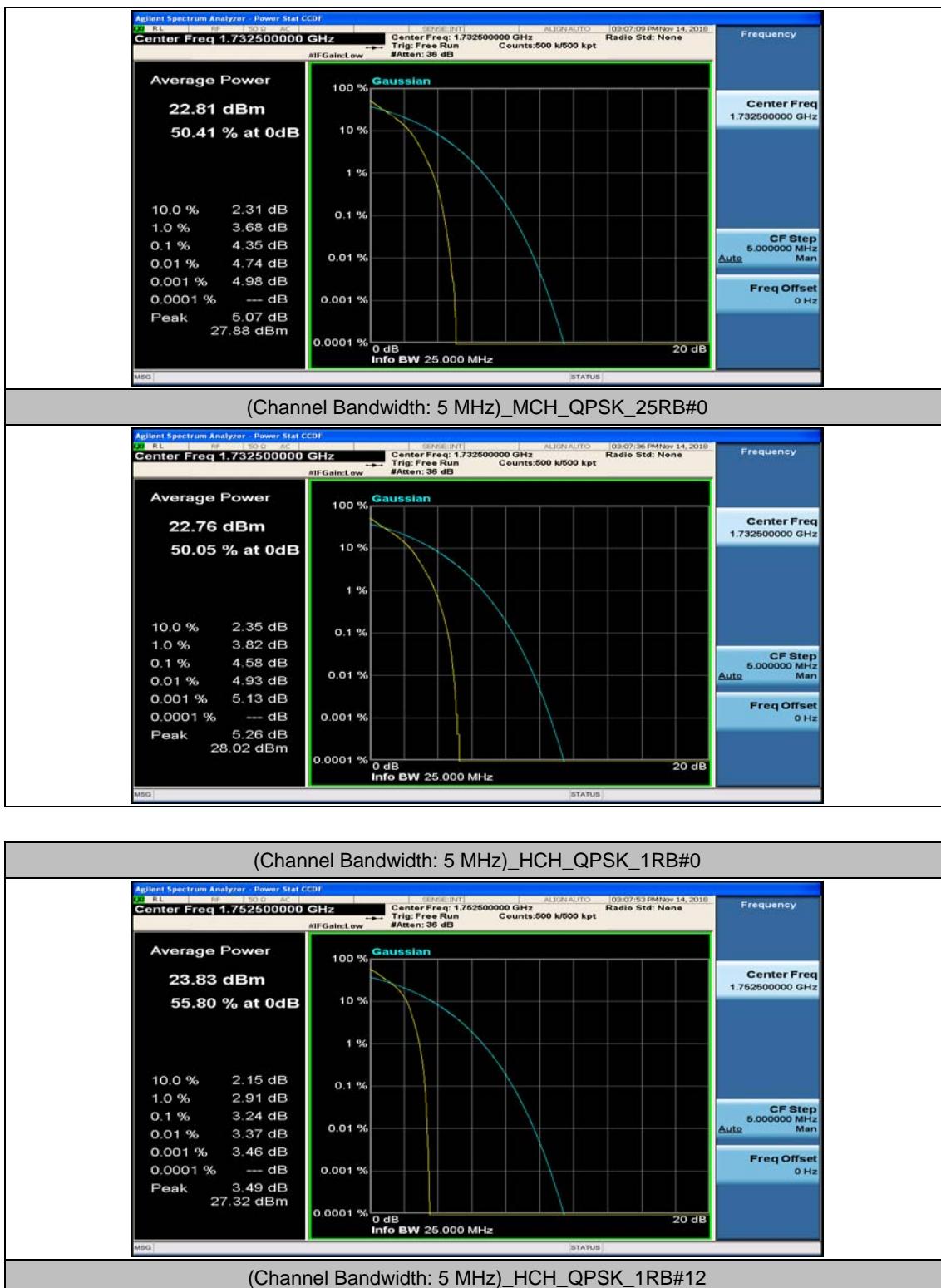


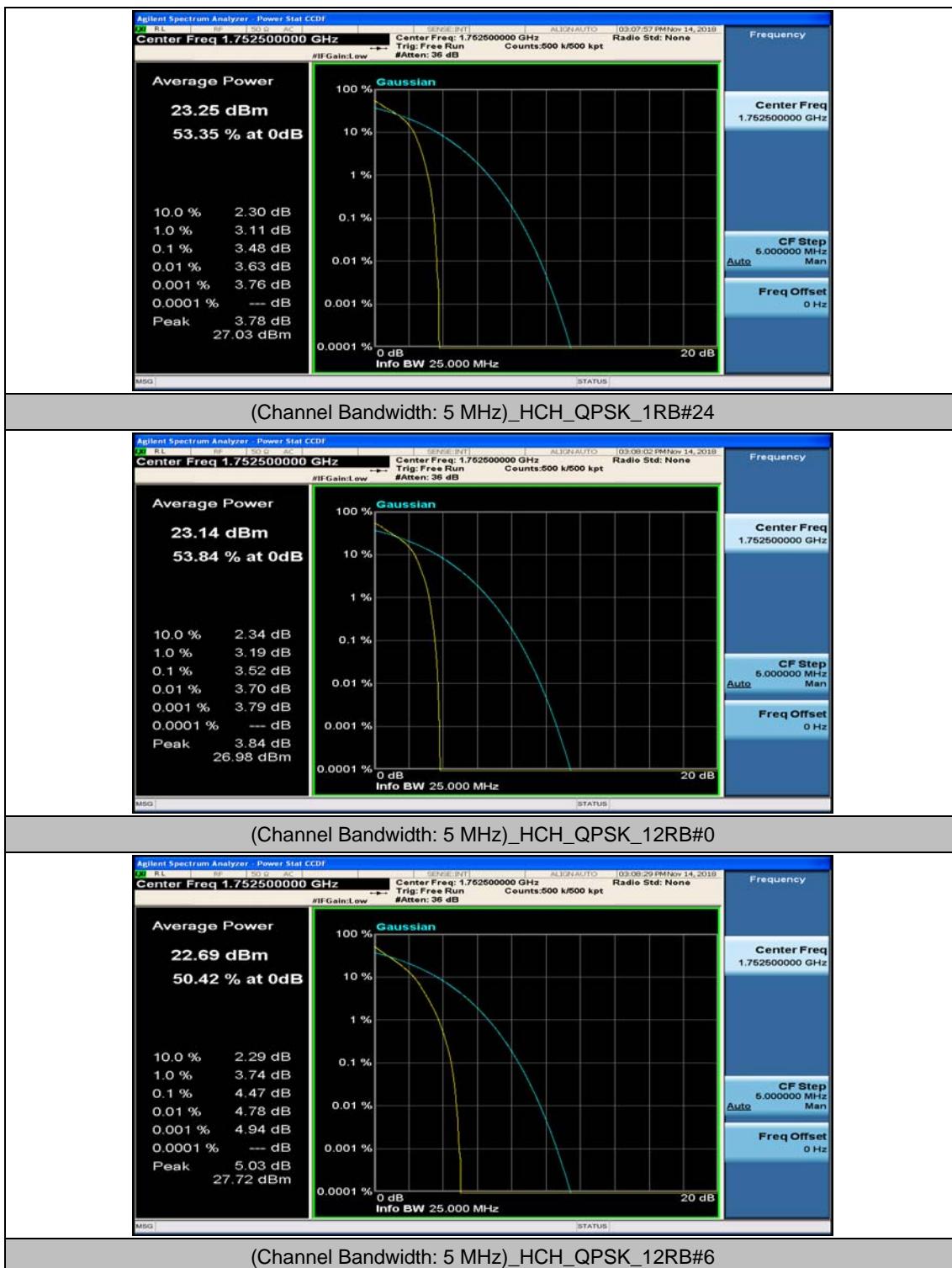


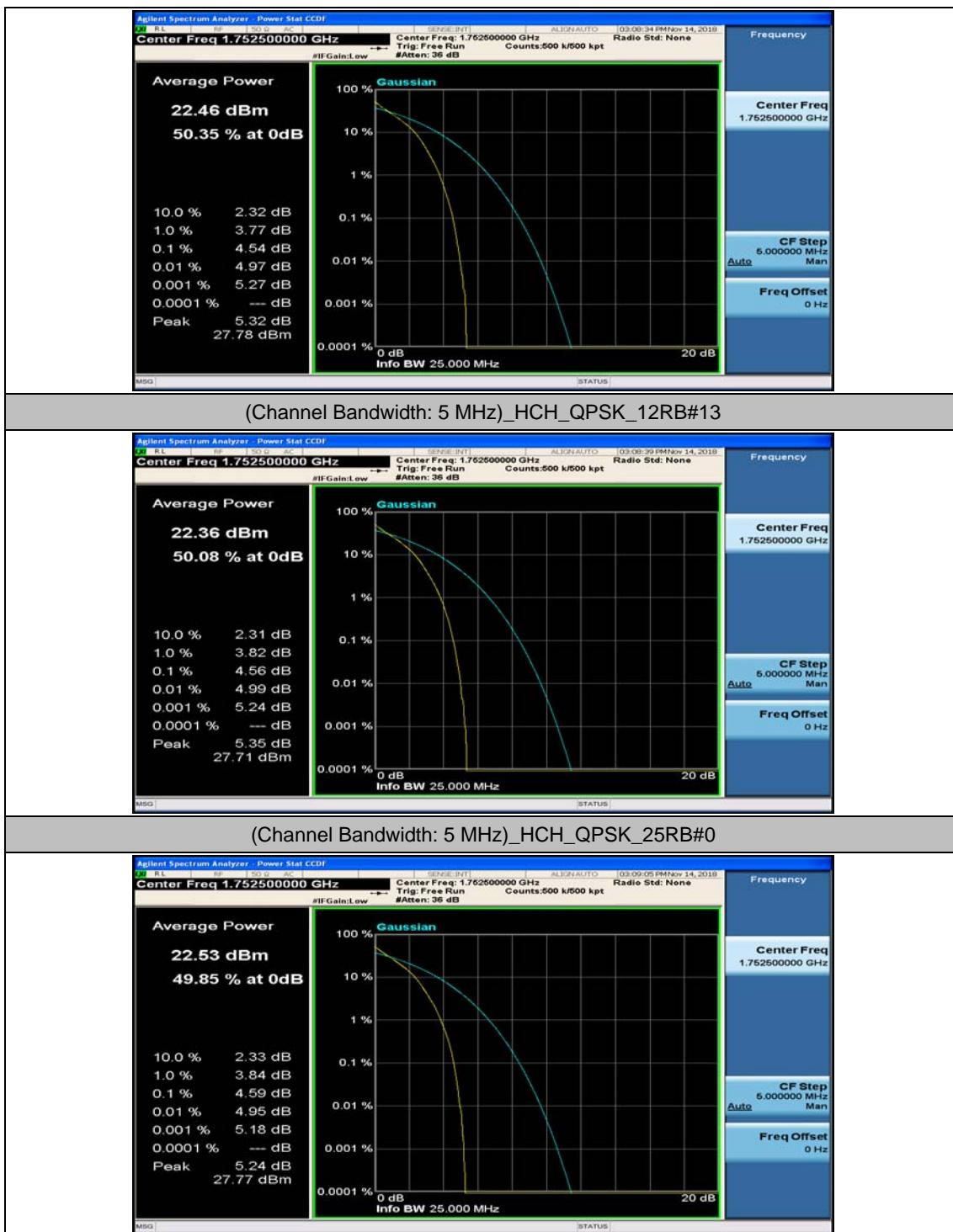


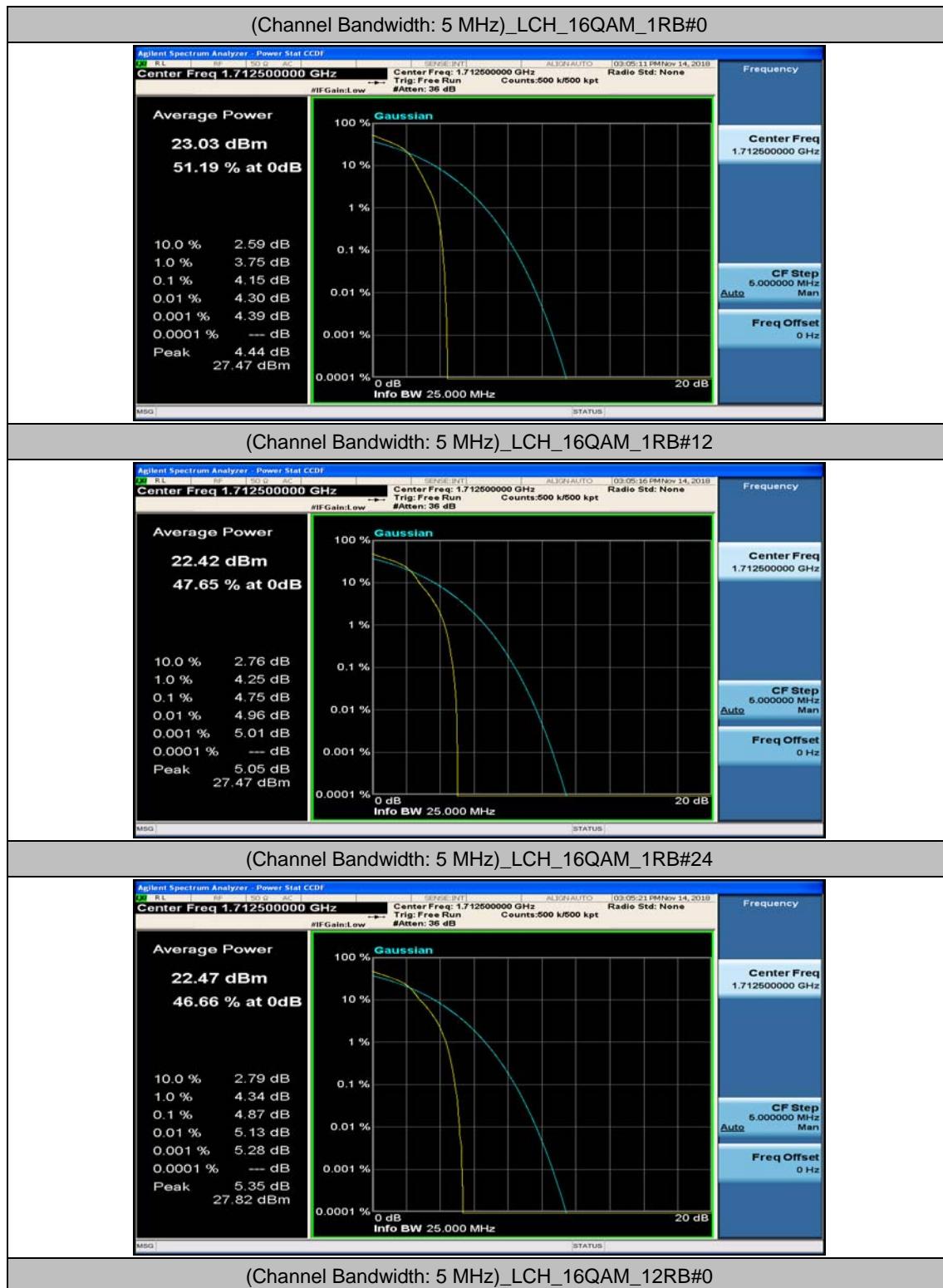
(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#24

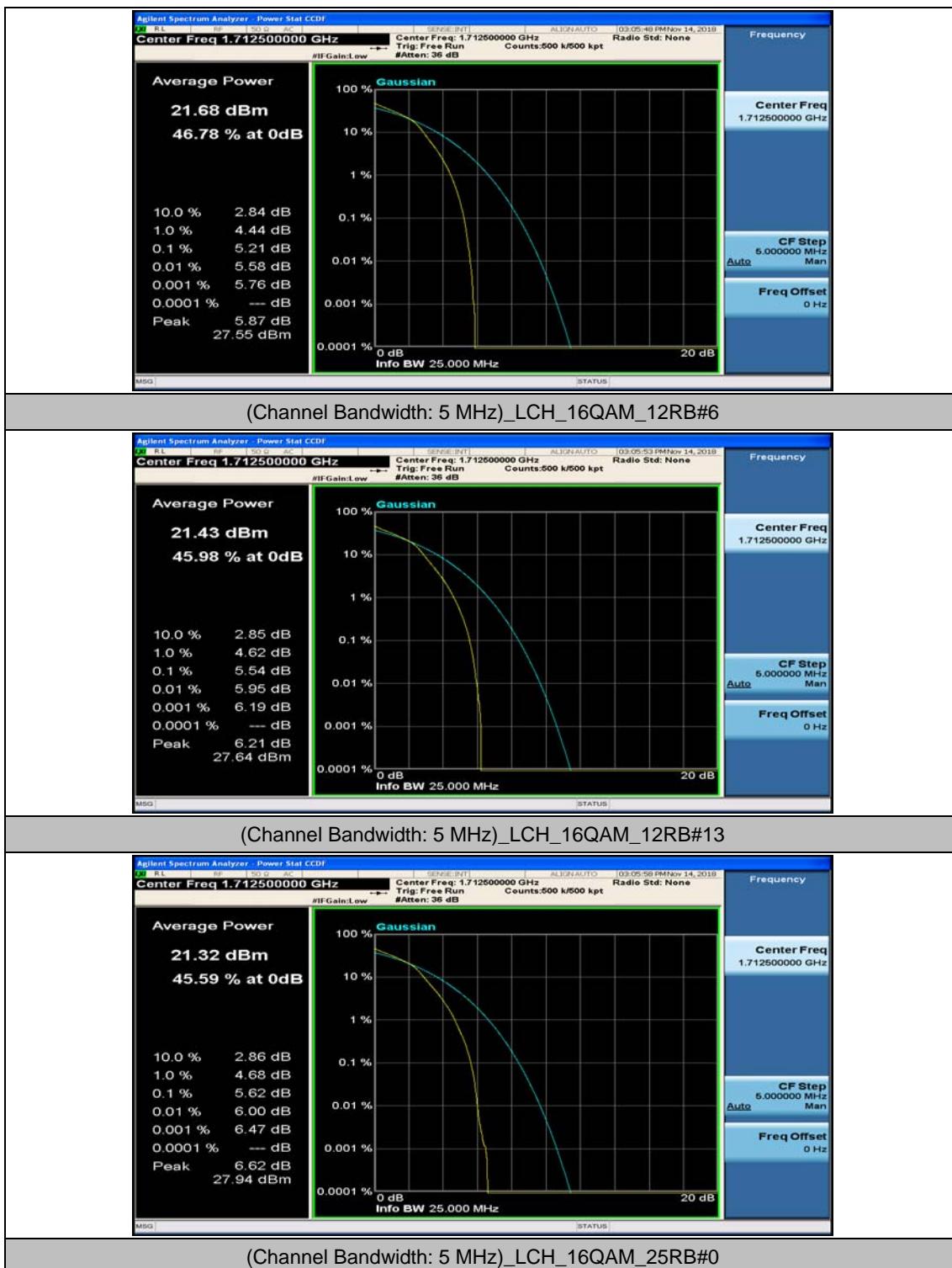


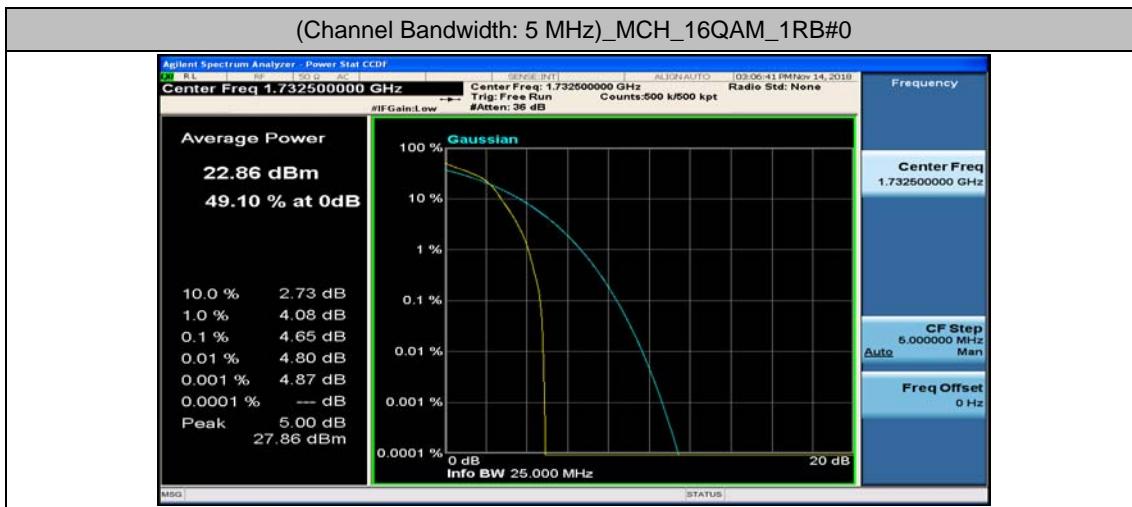












(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#24

