

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	23.32	PASS
		1	3	23.33	PASS
		1	5	23.28	PASS
		3	0	22.17	PASS
		3	2	22.18	PASS
		3	3	22.17	PASS
		6	0	22.26	PASS
	MCH	1	0	22.83	PASS
		1	3	22.75	PASS
		1	5	22.89	PASS
		3	0	22.23	PASS
		3	2	22.29	PASS
		3	3	22.26	PASS
		6	0	21.87	PASS
16QAM	HCH	1	0	22.00	PASS
		1	3	21.73	PASS
		1	5	21.78	PASS
		3	0	21.90	PASS
		3	2	21.78	PASS
		3	3	21.76	PASS
		6	0	20.94	PASS
	LCH	1	0	22.28	PASS
		1	3	22.38	PASS
		1	5	22.29	PASS
		3	0	22.21	PASS
		3	2	22.19	PASS
		3	3	22.18	PASS
		6	0	21.15	PASS
	MCH	1	0	22.21	PASS
		1	3	22.18	PASS
		1	5	22.31	PASS
		3	0	21.79	PASS

		3	2	21.85	PASS
		3	3	21.90	PASS
		6	0	20.91	PASS
HCH	HCH	1	0	21.30	PASS
		1	3	21.11	PASS
		1	5	21.16	PASS
		3	0	21.10	PASS
		3	2	20.99	PASS
		3	3	20.97	PASS
		6	0	20.75	PASS

Channel Bandwidth: 3 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	23.17	PASS
		1	7	23.24	PASS
		1	14	23.16	PASS
		8	0	22.23	PASS
		8	4	22.23	PASS
		8	7	22.22	PASS
		15	0	22.19	PASS
	MCH	1	0	22.68	PASS
		1	7	22.70	PASS
		1	14	22.78	PASS
		8	0	21.79	PASS
		8	4	21.85	PASS
		8	7	21.90	PASS
		15	0	21.80	PASS
	HCH	1	0	22.26	PASS
		1	7	21.93	PASS
		1	14	21.75	PASS
		8	0	21.26	PASS
		8	4	21.07	PASS
		8	7	20.97	PASS
		15	0	21.12	PASS
16QAM	LCH	1	0	22.29	PASS
		1	7	22.35	PASS
		1	14	22.29	PASS
		8	0	21.20	PASS
		8	4	21.23	PASS
		8	7	21.19	PASS
		15	0	21.09	PASS

	MCH	1	0	22.05	PASS
		1	7	22.14	PASS
		1	14	22.21	PASS
		8	0	20.88	PASS
		8	4	20.94	PASS
		8	7	21.03	PASS
		15	0	20.90	PASS
	HCH	1	0	21.60	PASS
		1	7	21.24	PASS
		1	14	21.13	PASS
		8	0	20.72	PASS
		8	4	20.85	PASS
		8	7	20.55	PASS
		15	0	20.43	PASS

Channel Bandwidth: 5 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	23.31	PASS
		1	12	22.99	PASS
		1	24	22.87	PASS
		12	0	22.24	PASS
		12	6	22.23	PASS
		12	13	22.14	PASS
		25	0	22.18	PASS
	MCH	1	0	22.49	PASS
		1	12	22.33	PASS
		1	24	22.83	PASS
		12	0	21.34	PASS
		12	6	21.38	PASS
		12	13	21.55	PASS
		25	0	21.38	PASS
	HCH	1	0	22.51	PASS
		1	12	21.66	PASS
		1	24	21.65	PASS
		12	0	21.14	PASS
		12	6	20.77	PASS
		12	13	20.78	PASS
		25	0	20.83	PASS
16QAM	LCH	1	0	22.38	PASS
		1	12	22.40	PASS
		1	24	22.27	PASS

		12	0	21.22	PASS
		12	6	21.21	PASS
		12	13	21.22	PASS
		25	0	21.14	PASS
MCH	MCH	1	0	21.75	PASS
		1	12	21.66	PASS
		1	24	22.11	PASS
		12	0	20.59	PASS
		12	6	20.58	PASS
		12	13	20.75	PASS
		25	0	20.49	PASS
HCH	HCH	1	0	21.78	PASS
		1	12	20.92	PASS
		1	24	20.91	PASS
		12	0	20.37	PASS
		12	6	20.91	PASS
		12	13	20.71	PASS
		25	0	20.99	PASS

Channel Bandwidth: 10 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	23.08	PASS
		1	24	22.40	PASS
		1	49	21.57	PASS
		25	0	22.17	PASS
		25	12	21.75	PASS
		25	25	21.26	PASS
		50	0	21.80	PASS
QPSK	MCH	1	0	21.62	PASS
		1	24	22.14	PASS
		1	49	22.34	PASS
		25	0	21.00	PASS
		25	12	21.21	PASS
		25	25	21.51	PASS
		50	0	21.27	PASS
QPSK	HCH	1	0	22.69	PASS
		1	24	22.03	PASS
		1	49	21.96	PASS
		25	0	21.79	PASS
		25	12	21.32	PASS
		25	25	20.70	PASS

		50	0	21.35	PASS
16QAM	LCH	1	0	22.38	PASS
		1	24	21.82	PASS
		1	49	20.98	PASS
		25	0	21.16	PASS
		25	12	20.89	PASS
		25	25	20.75	PASS
		50	0	20.93	PASS
	MCH	1	0	21.05	PASS
		1	24	21.60	PASS
		1	49	21.81	PASS
		25	0	20.90	PASS
		25	12	20.84	PASS
		25	25	20.62	PASS
		50	0	20.87	PASS
	HCH	1	0	22.06	PASS
		1	24	21.43	PASS
		1	49	20.66	PASS
		25	0	20.79	PASS
		25	12	20.49	PASS
		25	25	20.89	PASS
		50	0	20.61	PASS

Channel Bandwidth: 15 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	23.28	PASS
		1	37	22.07	PASS
		1	74	21.53	PASS
		37	0	21.94	PASS
		37	18	21.32	PASS
		37	38	20.86	PASS
		75	0	21.40	PASS
	MCH	1	0	21.66	PASS
		1	37	22.04	PASS
		1	74	22.77	PASS
		37	0	20.81	PASS
		37	18	21.10	PASS
		37	38	21.59	PASS
		75	0	21.24	PASS
	HCH	1	0	22.54	PASS
		1	37	22.32	PASS

		1	74	21.55	PASS
		37	0	21.92	PASS
		37	18	21.65	PASS
		37	38	20.94	PASS
		75	0	21.51	PASS
16QAM	LCH	1	0	22.39	PASS
		1	37	21.46	PASS
		1	74	20.92	PASS
		37	0	21.01	PASS
		37	18	20.43	PASS
		37	38	20.99	PASS
		75	0	20.80	PASS
	MCH	1	0	21.00	PASS
		1	37	21.44	PASS
		1	74	22.12	PASS
		37	0	20.92	PASS
		37	18	20.71	PASS
		37	38	20.74	PASS
		75	0	20.63	PASS
	HCH	1	0	21.88	PASS
		1	37	21.70	PASS
		1	74	20.54	PASS
		37	0	20.96	PASS
		37	18	20.82	PASS
		37	38	20.59	PASS
		75	0	20.65	PASS

Channel Bandwidth: 20 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	23.39	PASS
		1	49	21.72	PASS
		1	99	21.61	PASS
		50	0	22.46	PASS
		50	25	21.85	PASS
		50	50	21.79	PASS
		100	0	21.09	PASS
	MCH	1	0	23.12	PASS
		1	49	22.97	PASS
		1	99	22.64	PASS
		50	0	20.68	PASS
		50	25	21.07	PASS

		50	50	21.59	PASS
		100	0	21.21	PASS
	HCH	1	0	23.17	PASS
		1	49	22.39	PASS
		1	99	21.97	PASS
		50	0	21.70	PASS
		50	25	21.61	PASS
16QAM	LCH	50	50	21.09	PASS
		100	0	21.47	PASS
	MCH	1	0	22.45	PASS
		1	49	20.99	PASS
		1	99	20.85	PASS
		50	0	20.68	PASS
		50	25	20.96	PASS
	HCH	50	50	20.67	PASS
		100	0	20.35	PASS
	HCH	1	0	21.10	PASS
		1	49	21.39	PASS
		1	99	22.03	PASS
		50	0	20.83	PASS
		50	25	20.98	PASS
	MCH	50	50	20.78	PASS
		100	0	20.82	PASS
	HCH	1	0	21.64	PASS
		1	49	21.82	PASS
		1	99	20.68	PASS
		50	0	20.82	PASS
		50	25	20.79	PASS
	LCH	50	50	20.86	PASS
		100	0	20.63	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	3.78	<13	PASS
		1	3	3.69	<13	PASS
		1	5	3.78	<13	PASS
		3	0	3.92	<13	PASS
		3	2	3.96	<13	PASS
		3	3	3.93	<13	PASS
		6	0	4.43	<13	PASS
	MCH	1	0	4.75	<13	PASS
		1	3	4.59	<13	PASS
		1	5	4.45	<13	PASS
		3	0	5.03	<13	PASS
		3	2	5	<13	PASS
		3	3	5.01	<13	PASS
		6	0	5.1	<13	PASS
16QAM	LCH	1	0	4.71	<13	PASS
		1	3	5.03	<13	PASS
		1	5	4.98	<13	PASS
		3	0	5.24	<13	PASS
		3	2	5.33	<13	PASS
		3	3	5.34	<13	PASS
		6	0	5.42	<13	PASS
	MCH	1	0	4.62	<13	PASS
		1	3	4.47	<13	PASS
		1	5	4.6	<13	PASS
		3	0	4.81	<13	PASS
		3	2	4.84	<13	PASS
		3	3	4.8	<13	PASS
		6	0	5.4	<13	PASS

		3	2	5.57	<13	PASS
		3	3	5.73	<13	PASS
		6	0	5.88	<13	PASS
HCH		1	0	5.64	<13	PASS
		1	3	5.6	<13	PASS
		1	5	5.65	<13	PASS
		3	0	6.06	<13	PASS
		3	2	6.13	<13	PASS
		3	3	6.13	<13	PASS
		6	0	6.19	<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	3.71	<13	PASS
		1	7	3.83	<13	PASS
		1	14	3.99	<13	PASS
		8	0	4.43	<13	PASS
		8	4	4.49	<13	PASS
		8	7	4.52	<13	PASS
		15	0	4.51	<13	PASS
	MCH	1	0	4.7	<13	PASS
		1	7	4.45	<13	PASS
		1	14	4.39	<13	PASS
		8	0	5.42	<13	PASS
		8	4	5.28	<13	PASS
		8	7	5.16	<13	PASS
		15	0	5.33	<13	PASS
	HCH	1	0	4.7	<13	PASS
		1	7	4.87	<13	PASS
		1	14	5.09	<13	PASS
		8	0	5.44	<13	PASS
		8	4	5.54	<13	PASS
		8	7	5.54	<13	PASS
		15	0	5.41	<13	PASS
16QAM	LCH	1	0	4.49	<13	PASS
		1	7	4.62	<13	PASS
		1	14	4.74	<13	PASS
		8	0	5.13	<13	PASS
		8	4	5.16	<13	PASS

		8	7	5.24	<13	PASS
		15	0	5.4	<13	PASS
MCH		1	0	5.27	<13	PASS
		1	7	5.09	<13	PASS
		1	14	5.07	<13	PASS
		8	0	6.01	<13	PASS
		8	4	5.96	<13	PASS
		8	7	5.71	<13	PASS
		15	0	6.05	<13	PASS
HCH		1	0	5.46	<13	PASS
		1	7	5.47	<13	PASS
		1	14	5.73	<13	PASS
		8	0	6.29	<13	PASS
		8	4	6.45	<13	PASS
		8	7	6.49	<13	PASS
		15	0	6.15	<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	3.91	<13	PASS
		1	12	4.28	<13	PASS
		1	24	4.56	<13	PASS
		12	0	4.54	<13	PASS
		12	6	4.63	<13	PASS
		12	13	4.81	<13	PASS
		25	0	4.71	<13	PASS
	MCH	1	0	5	<13	PASS
		1	12	4.76	<13	PASS
		1	24	4.44	<13	PASS
		12	0	5.24	<13	PASS
		12	6	5.15	<13	PASS
		12	13	5.13	<13	PASS
		25	0	5.36	<13	PASS
	HCH	1	0	4.31	<13	PASS
		1	12	4.76	<13	PASS
		1	24	5.08	<13	PASS
		12	0	5.3	<13	PASS
		12	6	5.27	<13	PASS
		12	13	5.54	<13	PASS

		25	0	5.47	<13	PASS
16QAM	LCH	1	0	4.41	<13	PASS
		1	12	4.92	<13	PASS
		1	24	4.98	<13	PASS
		12	0	5.28	<13	PASS
		12	6	5.44	<13	PASS
		12	13	5.56	<13	PASS
		25	0	5.32	<13	PASS
	MCH	1	0	5.73	<13	PASS
		1	12	5.67	<13	PASS
		1	24	5.12	<13	PASS
		12	0	6	<13	PASS
		12	6	5.97	<13	PASS
		12	13	5.92	<13	PASS
		25	0	6.07	<13	PASS
	HCH	1	0	5.2	<13	PASS
		1	12	5.68	<13	PASS
		1	24	5.83	<13	PASS
		12	0	5.89	<13	PASS
		12	6	6.14	<13	PASS
		12	13	6.19	<13	PASS
		25	0	6.02	<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	3.97	<13	PASS
		1	24	4.56	<13	PASS
		1	49	4.95	<13	PASS
		25	0	4.62	<13	PASS
		25	12	4.95	<13	PASS
		25	25	5.15	<13	PASS
		50	0	4.96	<13	PASS
	MCH	1	0	4.98	<13	PASS
		1	24	4.69	<13	PASS
		1	49	4.16	<13	PASS
		25	0	5.45	<13	PASS
		25	12	5.33	<13	PASS
		25	25	5.12	<13	PASS
		50	0	5.29	<13	PASS

		1	0	3.94	<13	PASS
	HCH	1	24	4.47	<13	PASS
		1	49	5.29	<13	PASS
		25	0	4.58	<13	PASS
		25	12	4.98	<13	PASS
		25	25	5.25	<13	PASS
		50	0	4.98	<13	PASS
		1	0	4.71	<13	PASS
	LCH	1	24	5.16	<13	PASS
		1	49	5.95	<13	PASS
		25	0	5.4	<13	PASS
		25	12	5.6	<13	PASS
		25	25	5.83	<13	PASS
		50	0	5.61	<13	PASS
		1	0	5.72	<13	PASS
	MCH	1	24	5.41	<13	PASS
		1	49	4.84	<13	PASS
		25	0	6.14	<13	PASS
		25	12	6.04	<13	PASS
		25	25	5.94	<13	PASS
		50	0	6.01	<13	PASS
		1	0	4.36	<13	PASS
	HCH	1	24	5.13	<13	PASS
		1	49	5.87	<13	PASS
		25	0	5.4	<13	PASS
		25	12	5.73	<13	PASS
		25	25	6.02	<13	PASS
		50	0	5.72	<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	3.81	<13	PASS
		1	37	4.75	<13	PASS
		1	74	5.11	<13	PASS
		37	0	4.79	<13	PASS
		37	18	5.17	<13	PASS
		37	38	5.35	<13	PASS
		75	0	5.56	<13	PASS
	MCH	1	0	5.2	<13	PASS

	16QAM	HCH	1	37	4.91	<13	PASS
			1	74	3.67	<13	PASS
			37	0	5.4	<13	PASS
			37	18	5.35	<13	PASS
			37	38	4.96	<13	PASS
			75	0	5.65	<13	PASS
		LCH	1	0	3.79	<13	PASS
			1	37	3.98	<13	PASS
			1	74	4.8	<13	PASS
			37	0	4.36	<13	PASS
			37	18	4.64	<13	PASS
			37	38	5.16	<13	PASS
			75	0	5.21	<13	PASS
		MCH	1	0	4.53	<13	PASS
			1	37	5.7	<13	PASS
			1	74	6.15	<13	PASS
			37	0	5.53	<13	PASS
			37	18	5.83	<13	PASS
			37	38	6.06	<13	PASS
			75	0	6.07	<13	PASS
		HCH	1	0	6.15	<13	PASS
			1	37	5.68	<13	PASS
			1	74	4.47	<13	PASS
			37	0	6.2	<13	PASS
			37	18	6.12	<13	PASS
			37	38	5.78	<13	PASS
			75	0	6.11	<13	PASS

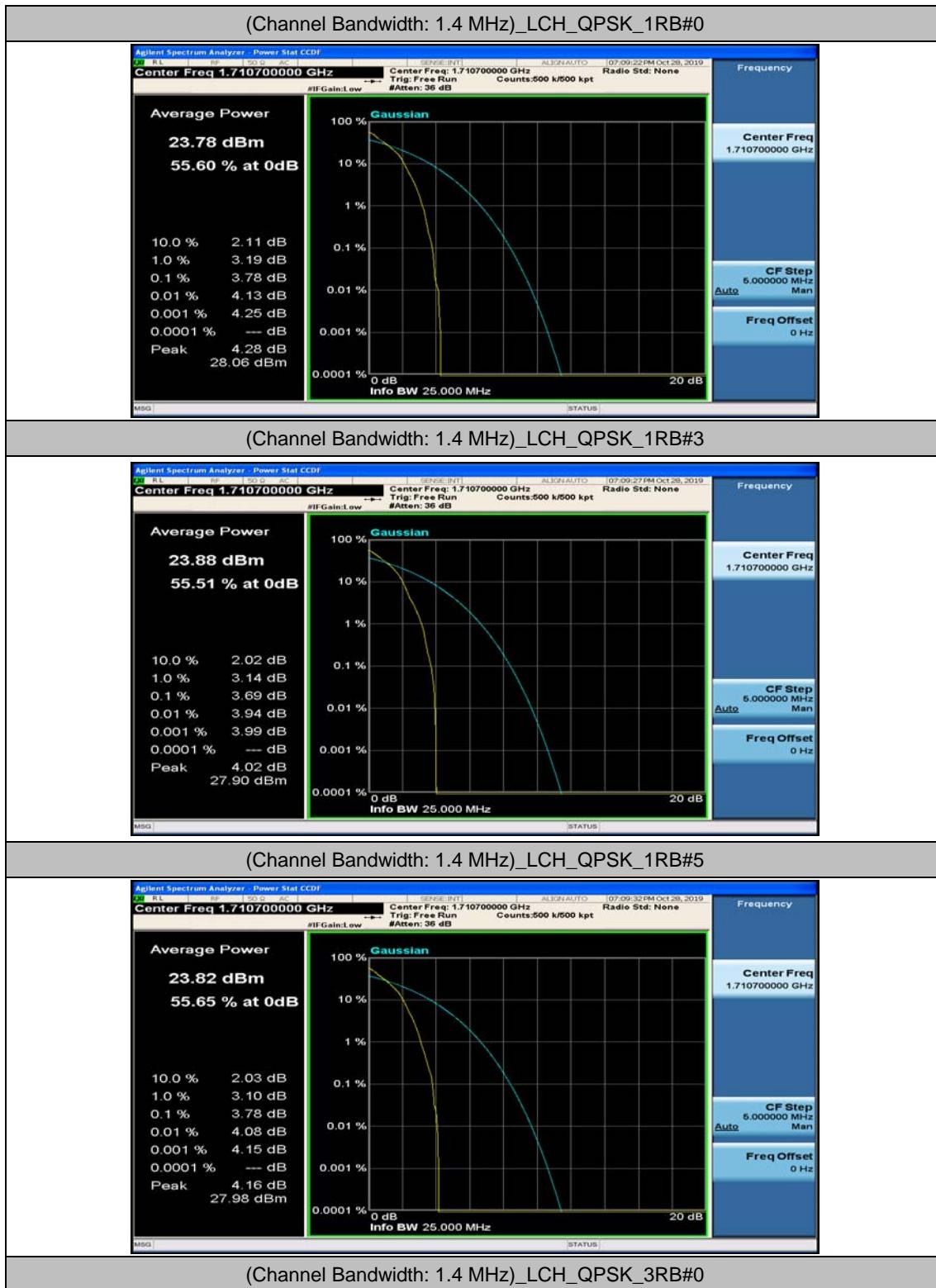
Channel Bandwidth: 20 MHz

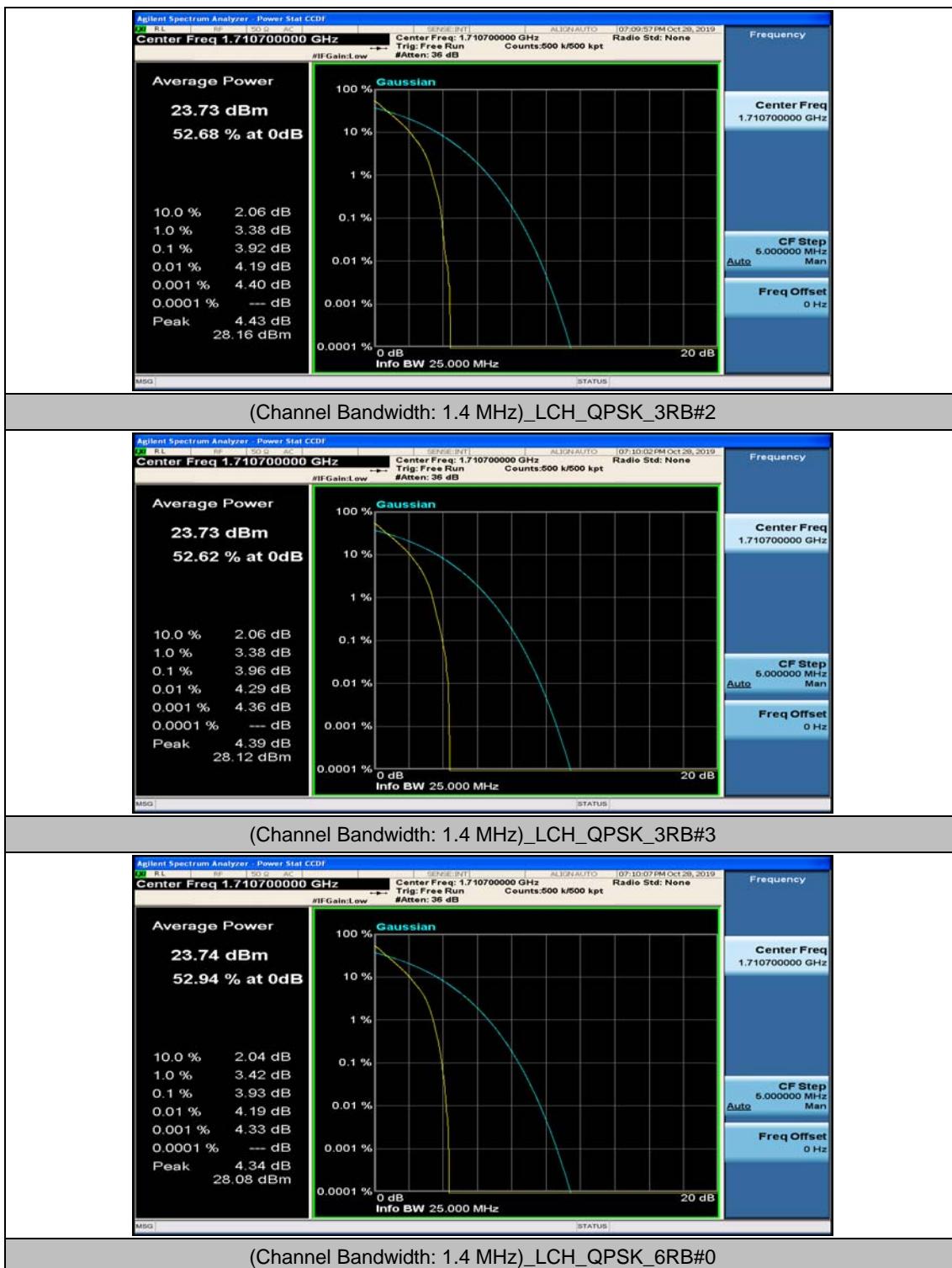
Channel Bandwidth: 20 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	LCH	1	0	3.68	<13	PASS
		1	49	4.95	<13	PASS
		1	99	4.86	<13	PASS
		50	0	5.06	<13	PASS
		50	25	5.36	<13	PASS
		50	50	5.49	<13	PASS
		100	0	5.55	<13	PASS
	MCH	1	0	5.15	<13	PASS
		1	49	4.9	<13	PASS
		1	99	3.66	<13	PASS
		50	0	5.56	<13	PASS
		50	25	5.27	<13	PASS
		50	50	4.93	<13	PASS
		100	0	5.48	<13	PASS
16QAM	LCH	1	0	4.44	<13	PASS
		1	49	3.8	<13	PASS
		1	99	4.95	<13	PASS
		50	0	4.75	<13	PASS
		50	25	4.51	<13	PASS
		50	50	5.04	<13	PASS
		100	0	5.1	<13	PASS
	MCH	1	0	4.29	<13	PASS
		1	49	5.86	<13	PASS
		1	99	5.53	<13	PASS
		50	0	5.78	<13	PASS
		50	25	6.06	<13	PASS
		50	50	6.15	<13	PASS
		100	0	6.16	<13	PASS
	HCH	1	0	5.79	<13	PASS
		1	49	5.3	<13	PASS
		1	99	4.23	<13	PASS
		50	0	6.15	<13	PASS
		50	25	6.01	<13	PASS
		50	50	5.65	<13	PASS
		100	0	6.11	<13	PASS
	HCH	1	0	5.12	<13	PASS

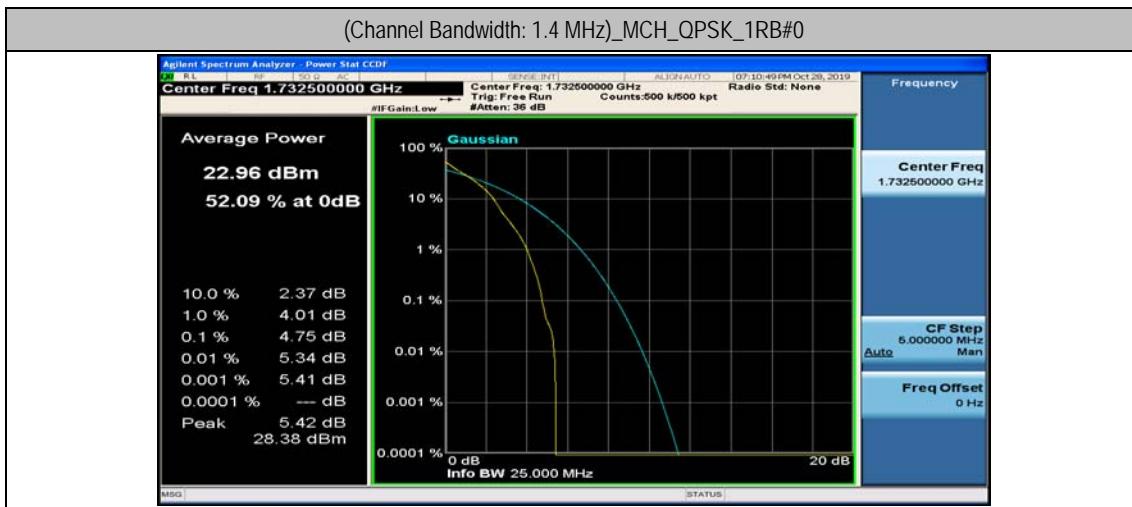
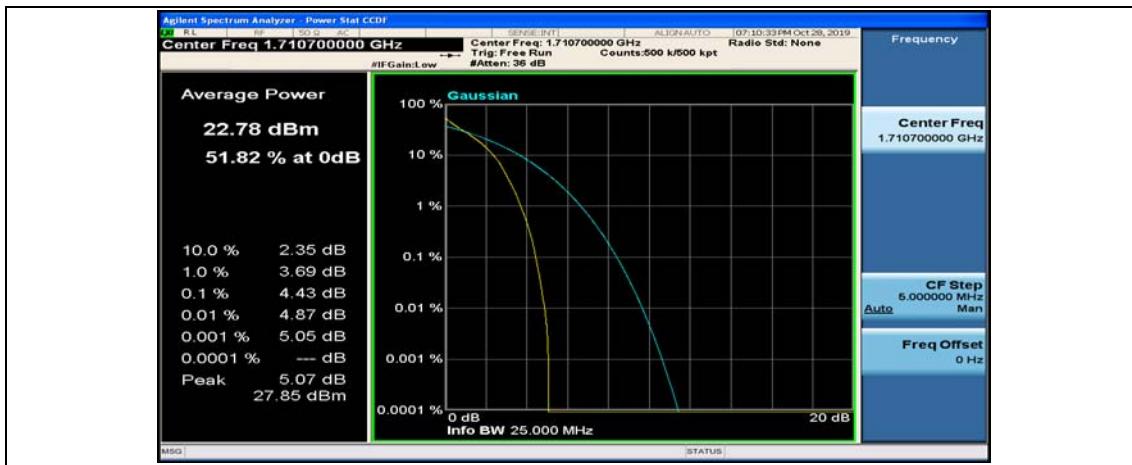
		1	49	4.61	<13	PASS
		1	99	6.32	<13	PASS
		50	0	5.48	<13	PASS
		50	25	5.27	<13	PASS
		50	50	5.7	<13	PASS
		100	0	5.77	<13	PASS

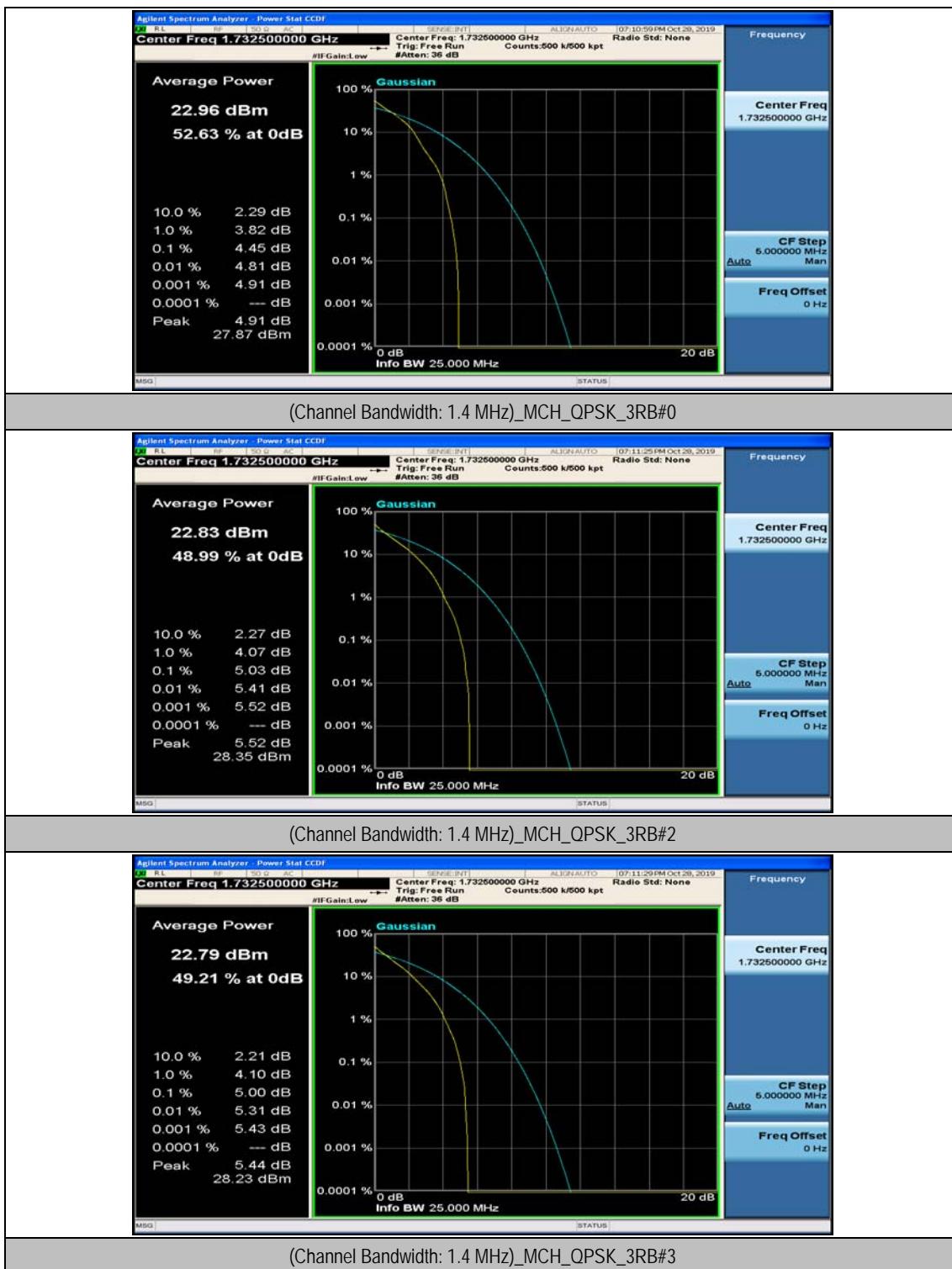
Test Graphs

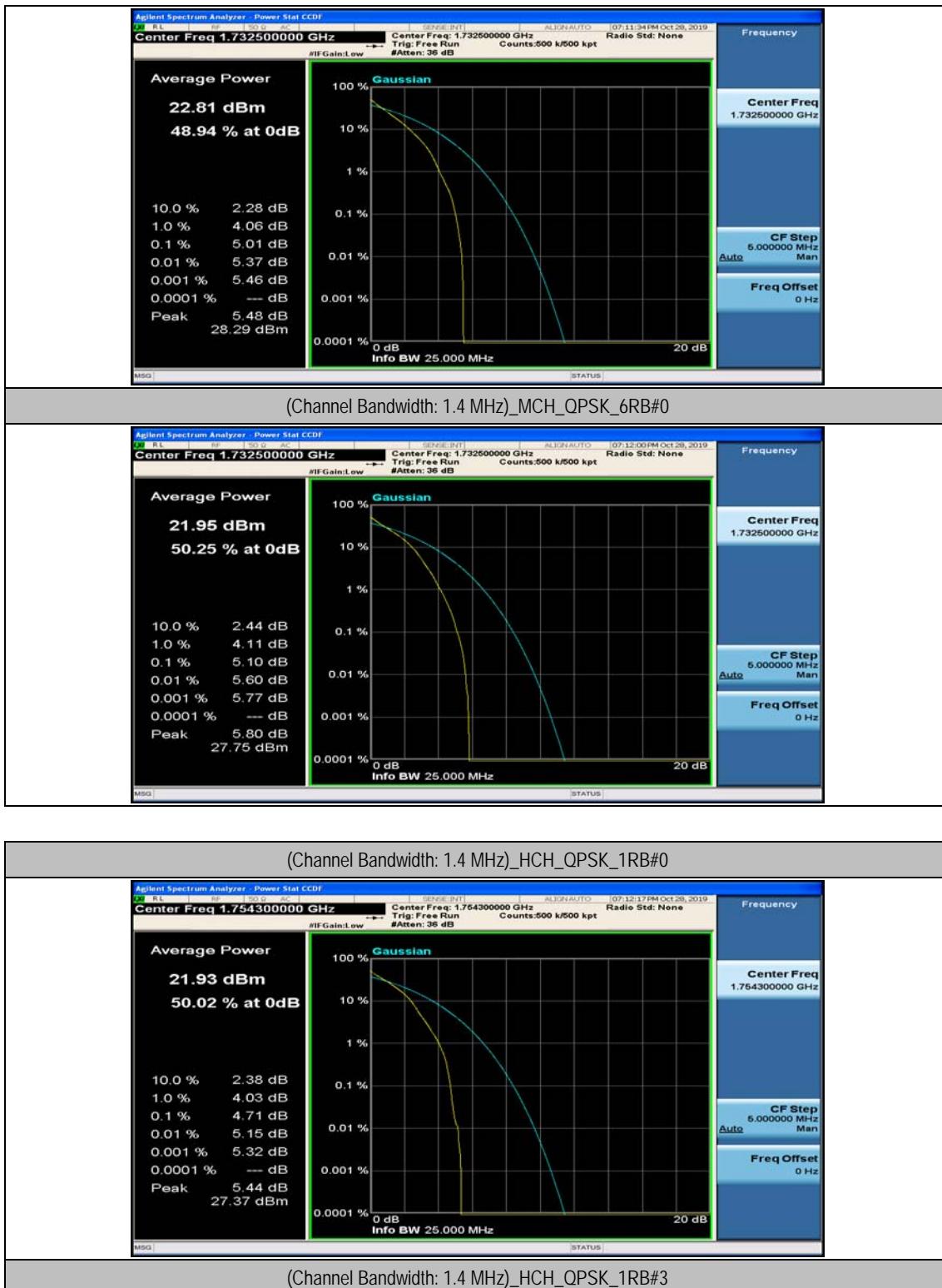
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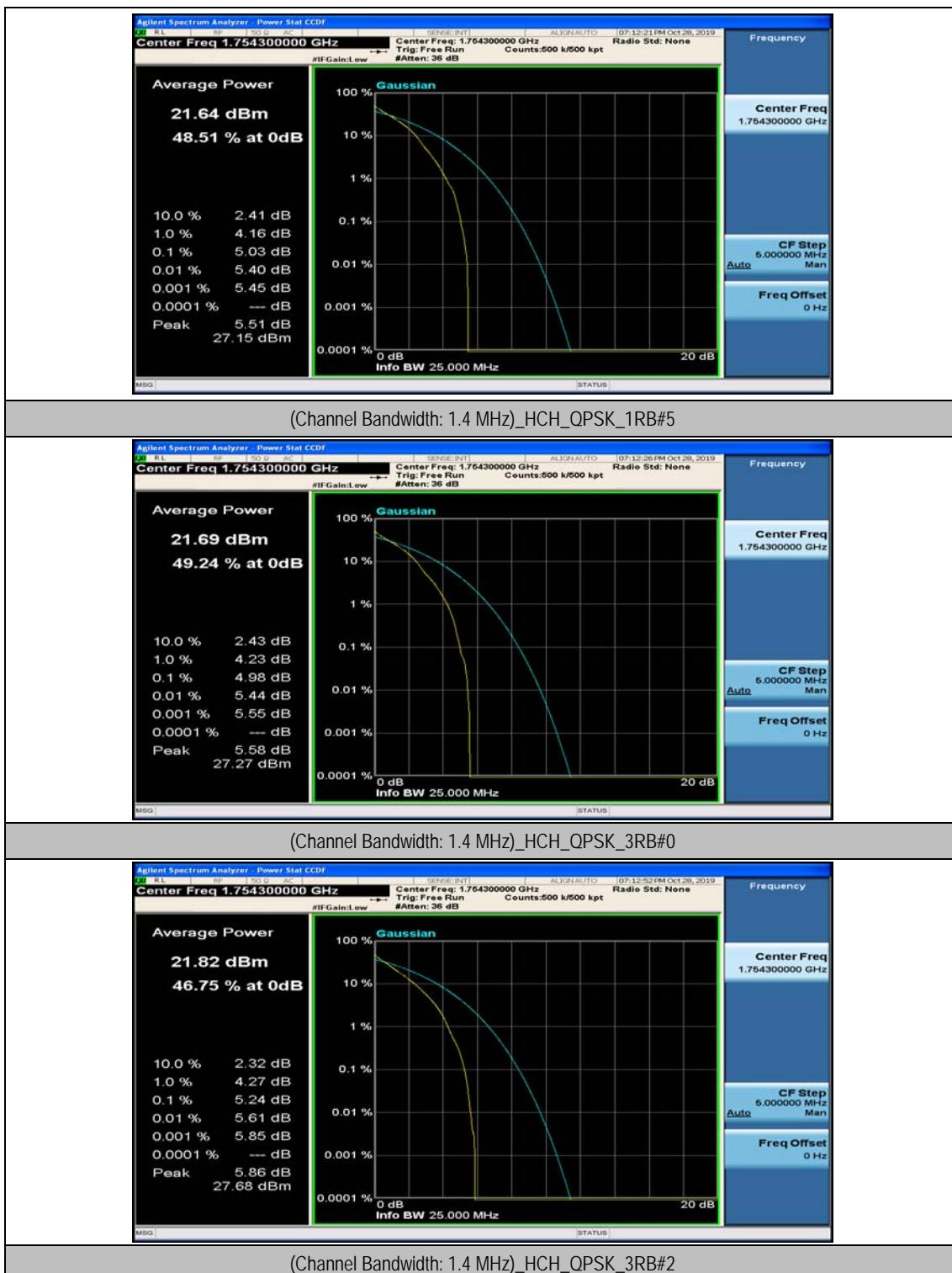


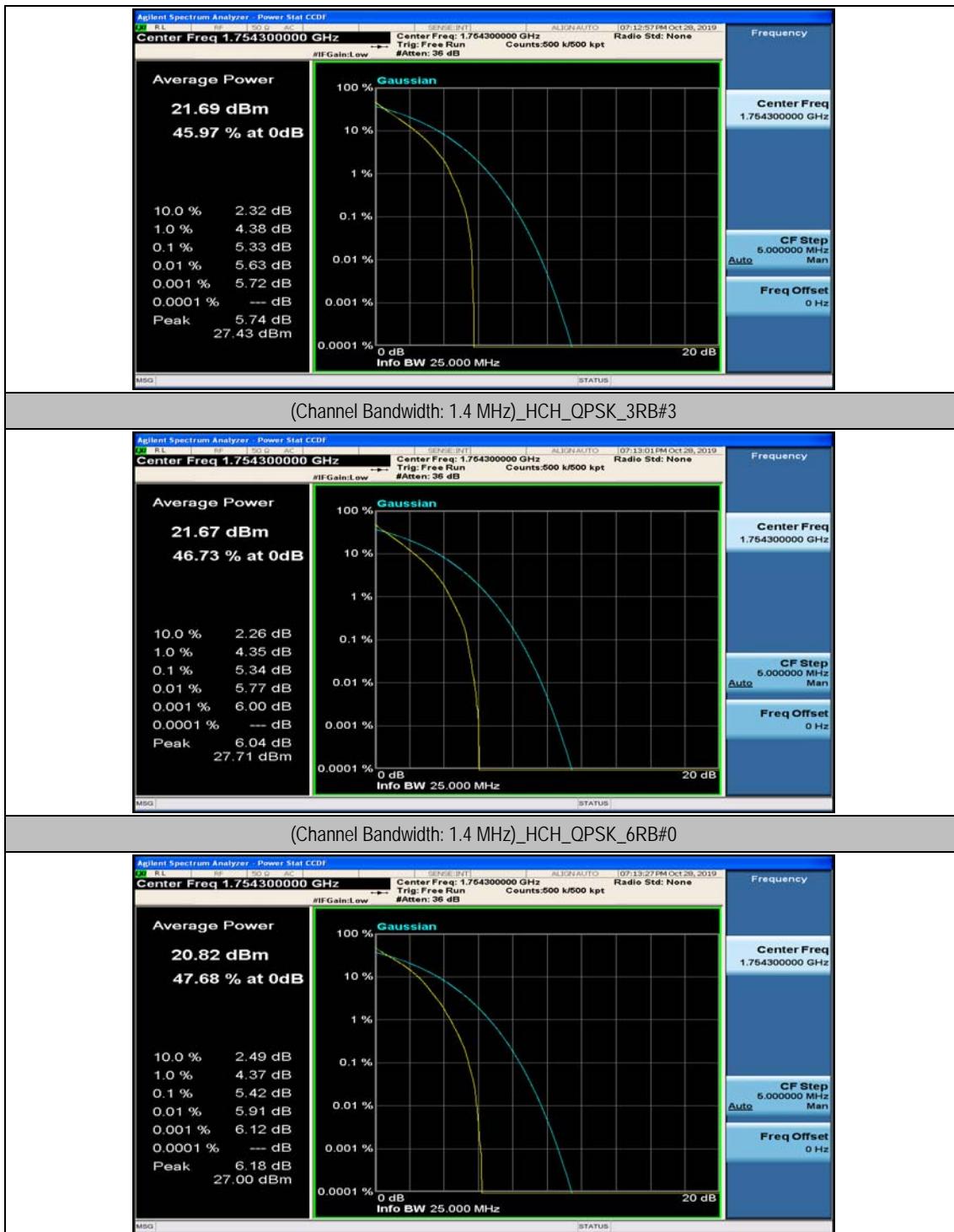


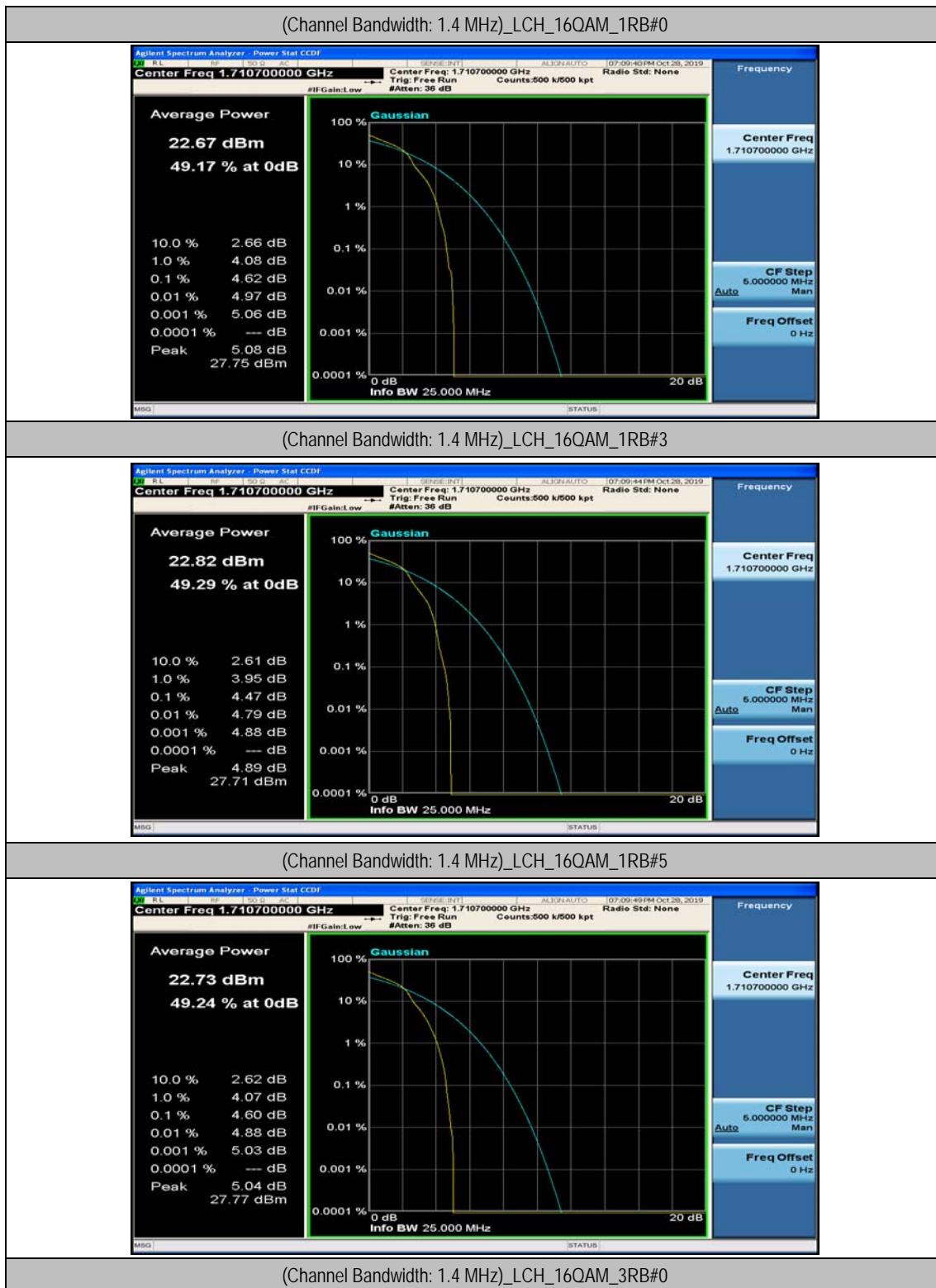


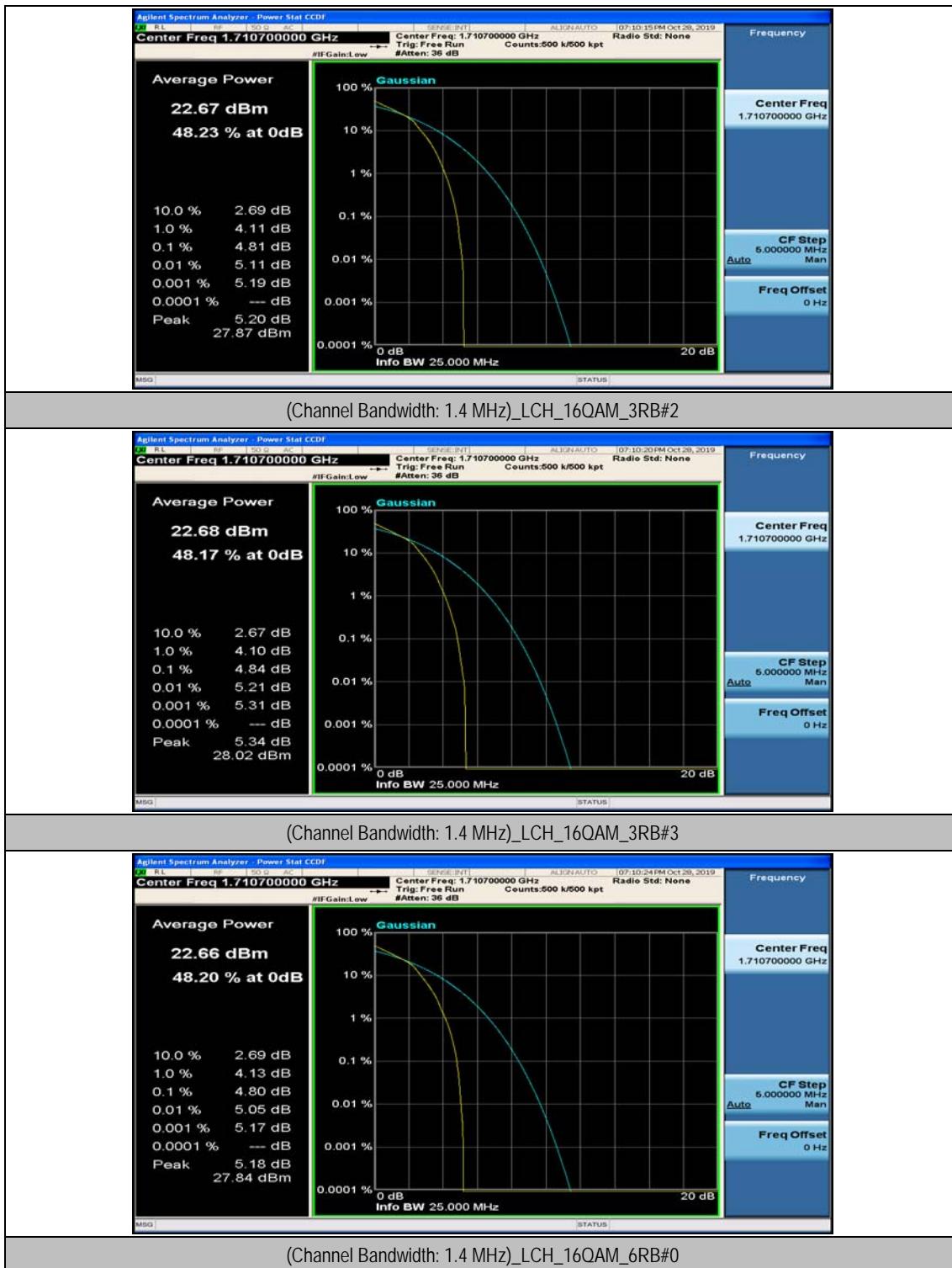


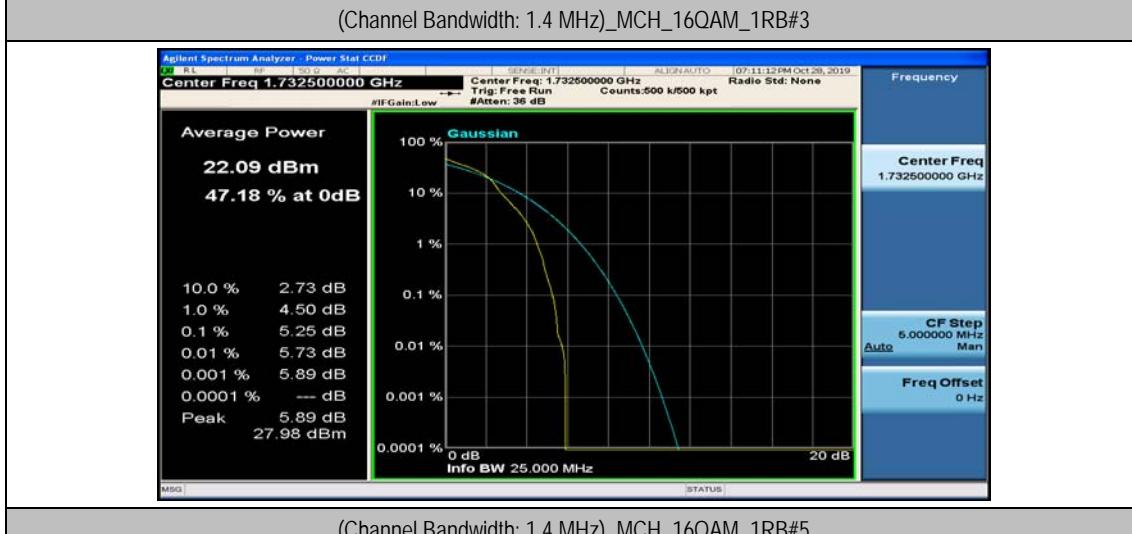
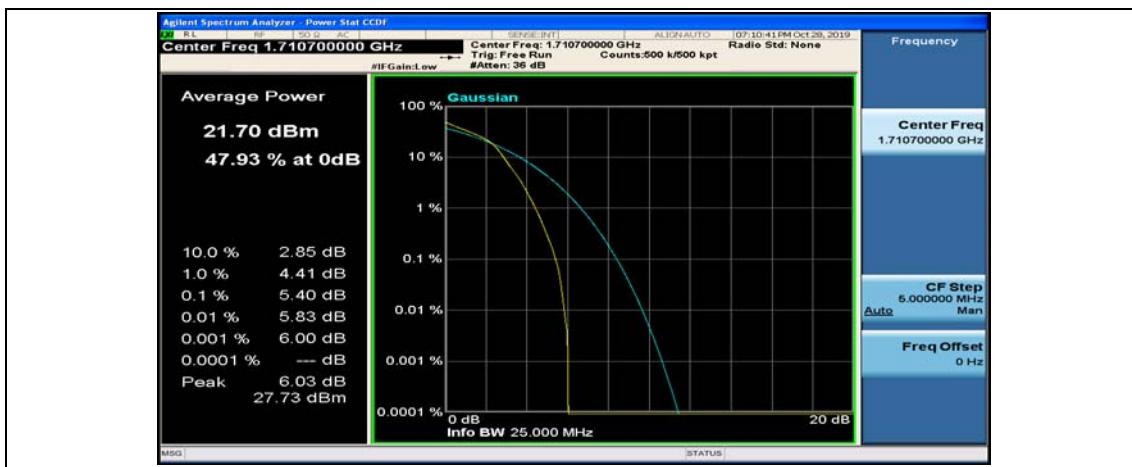


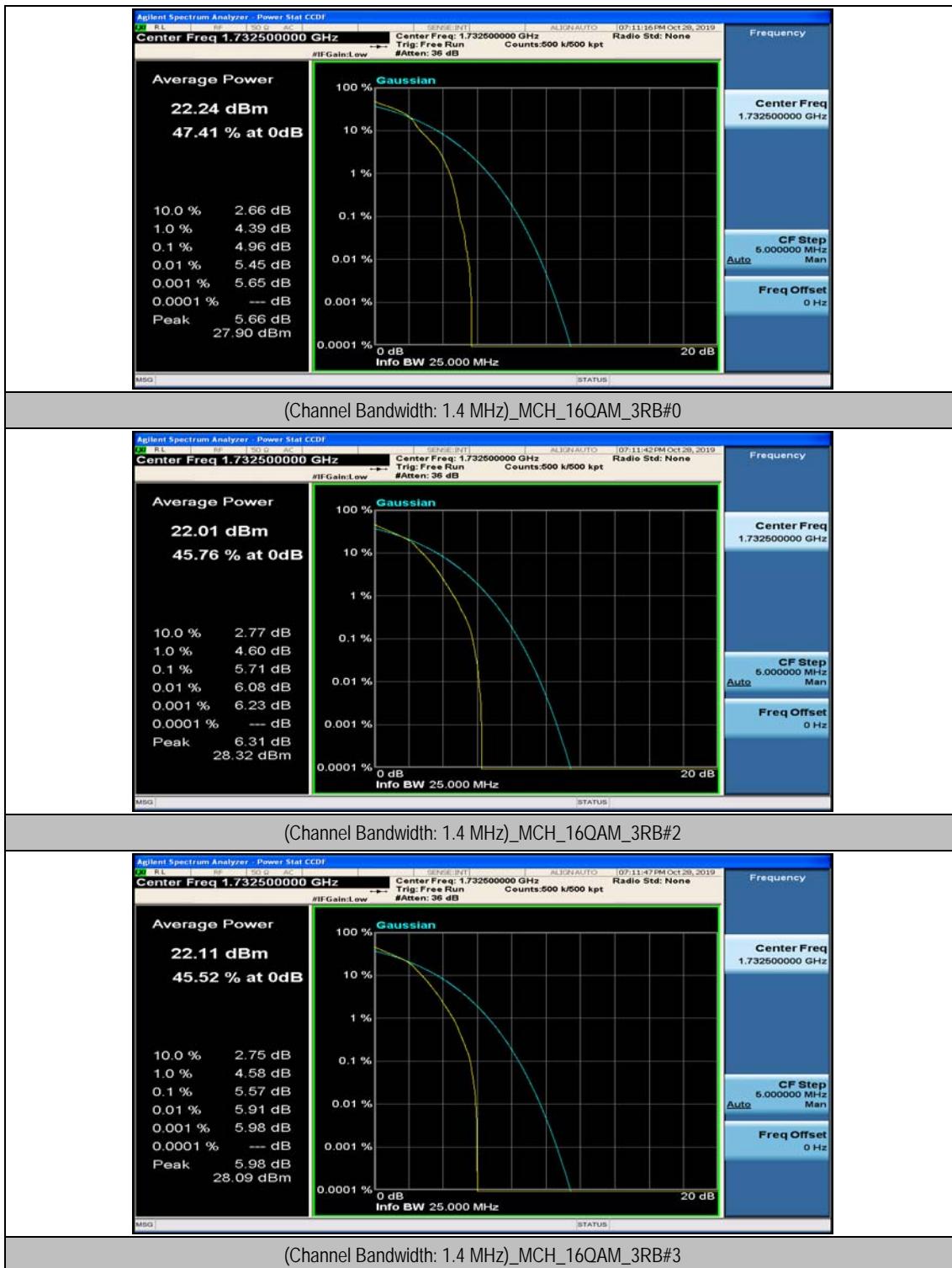


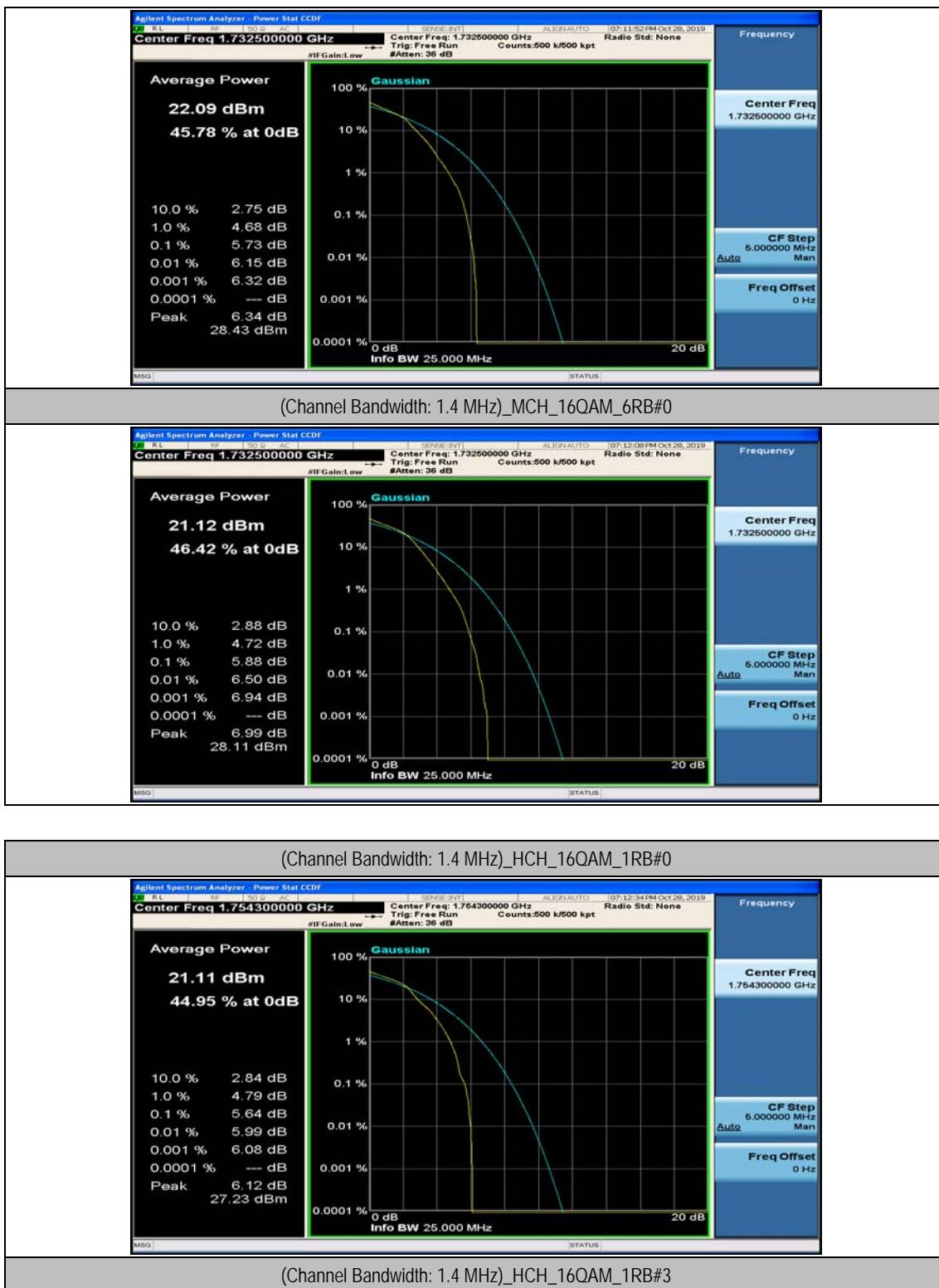


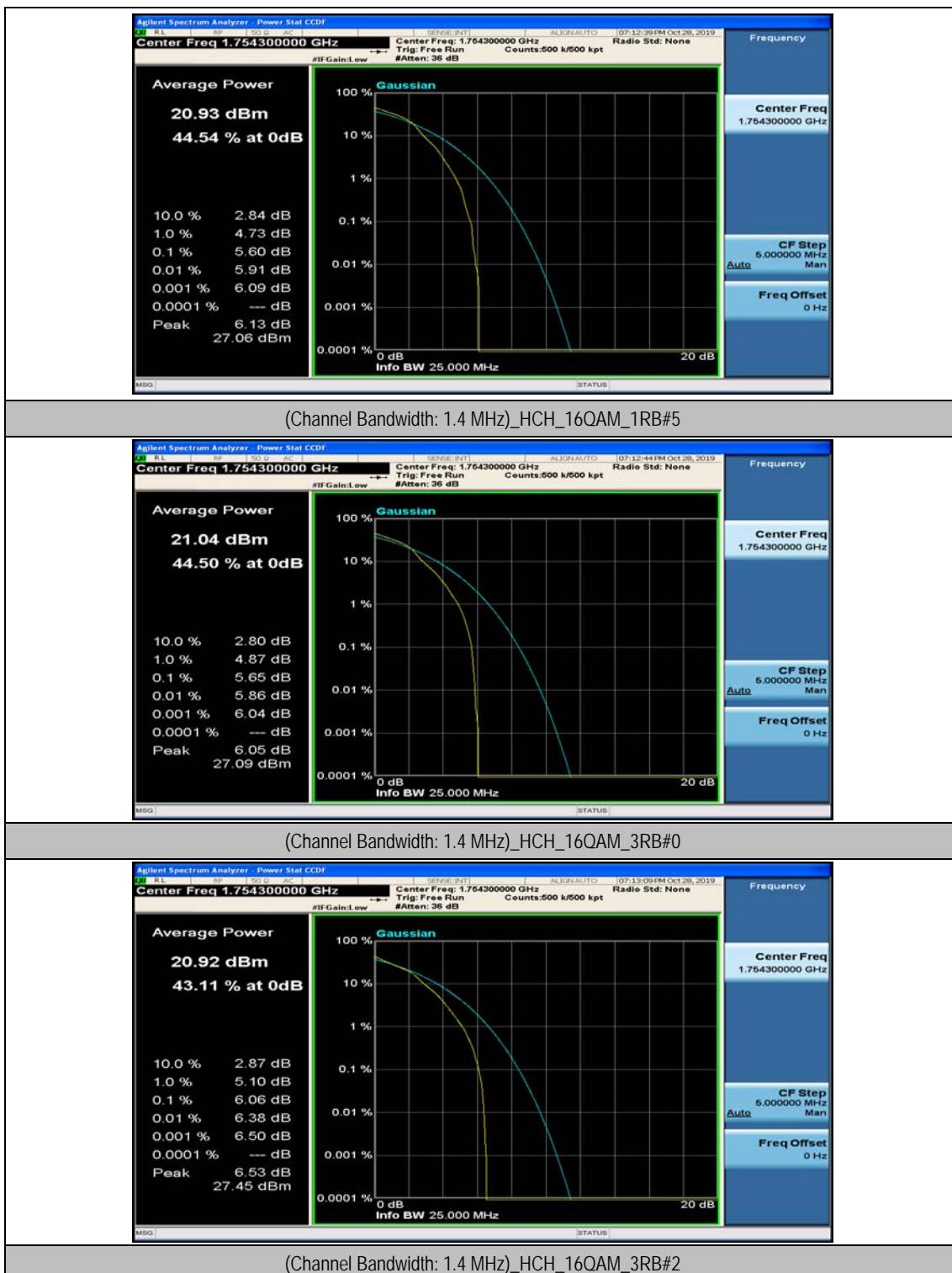


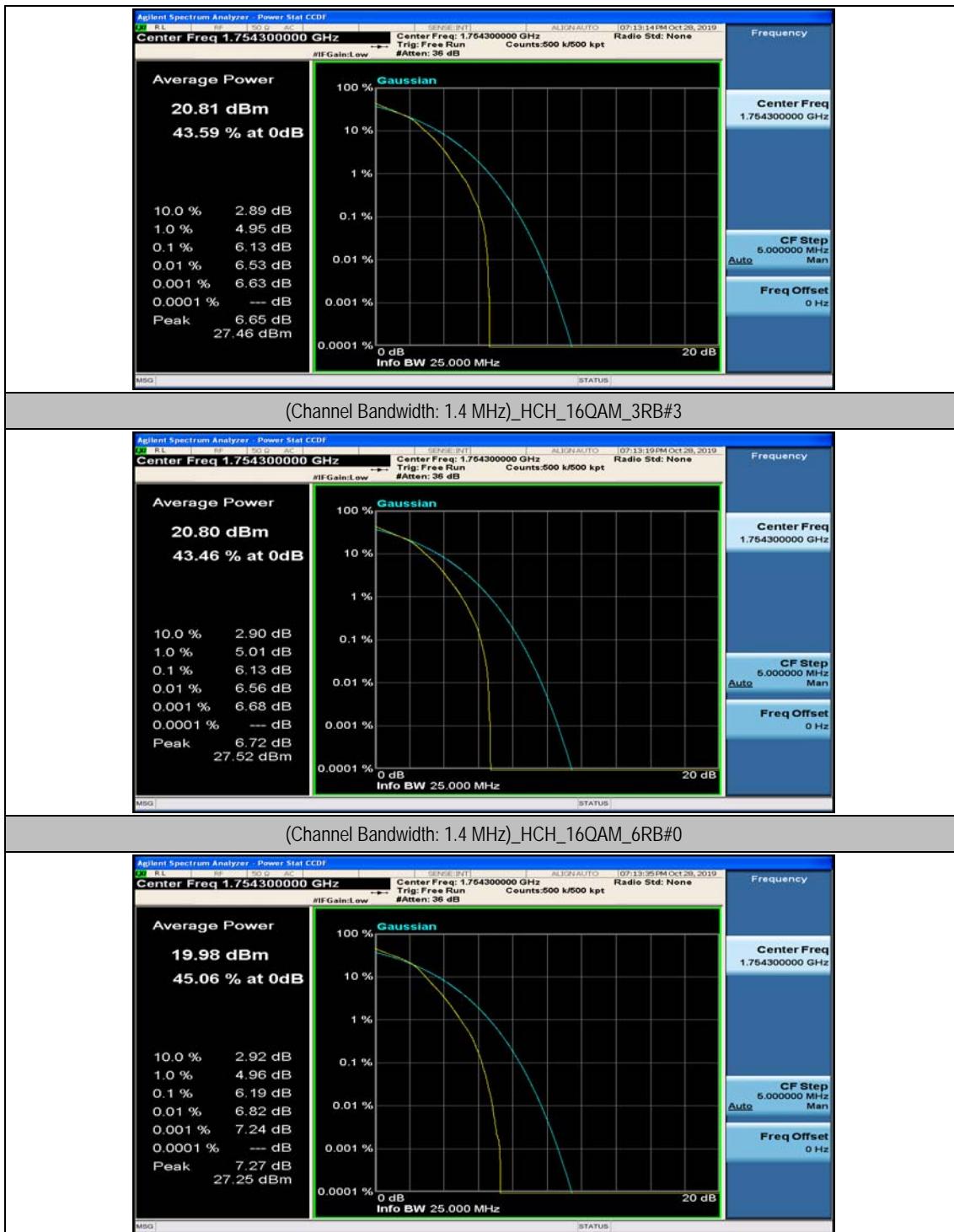




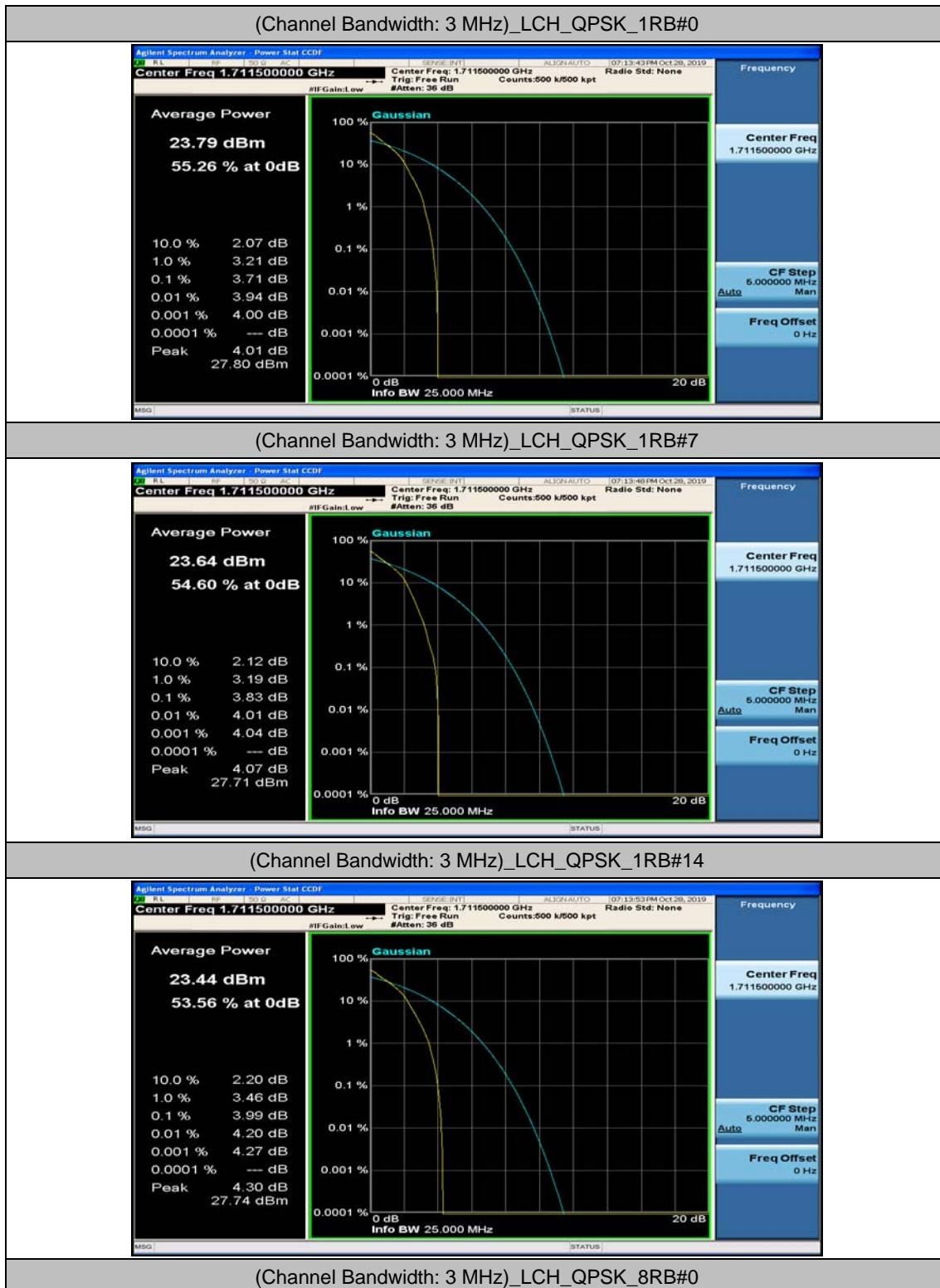


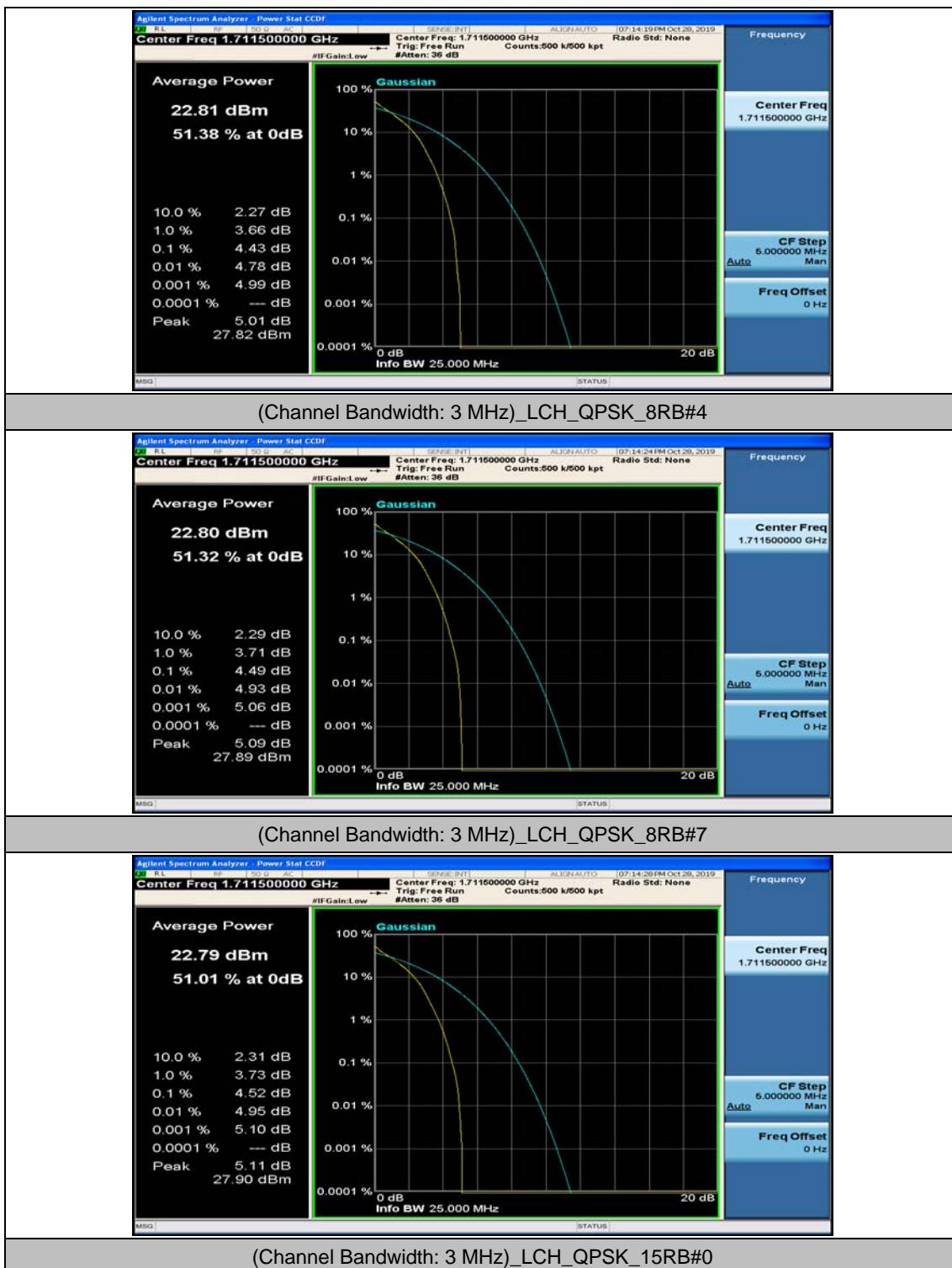


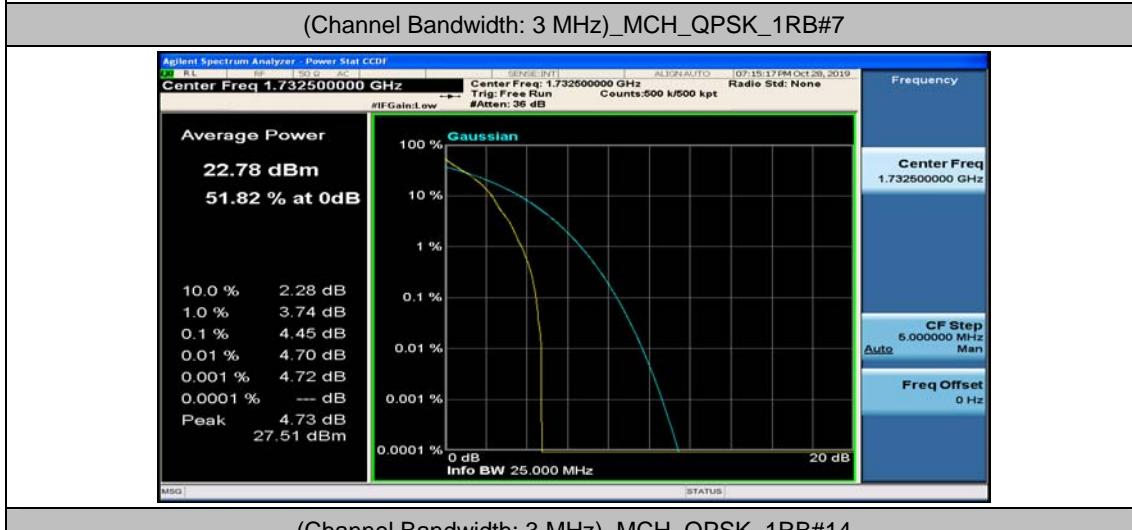
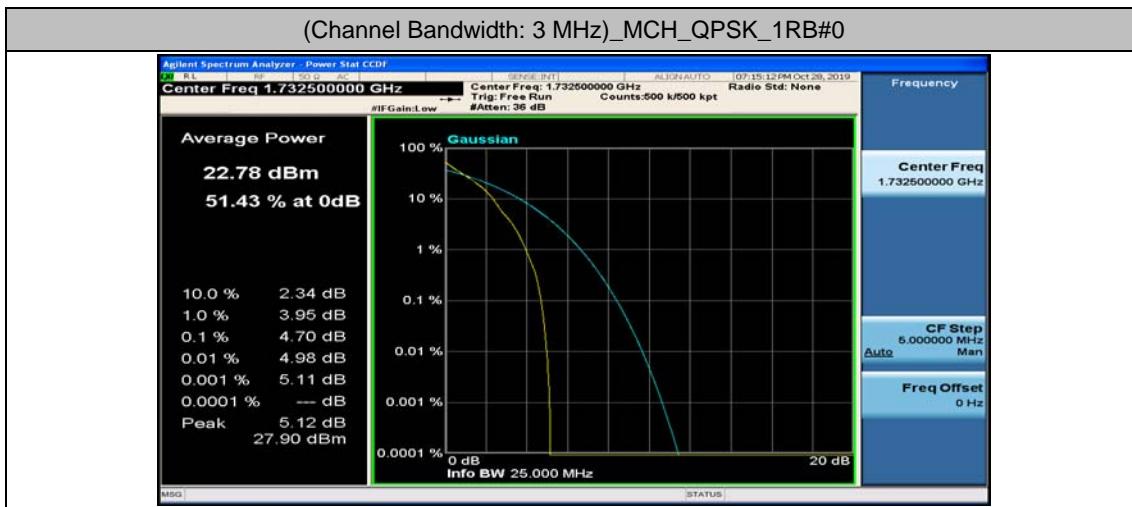
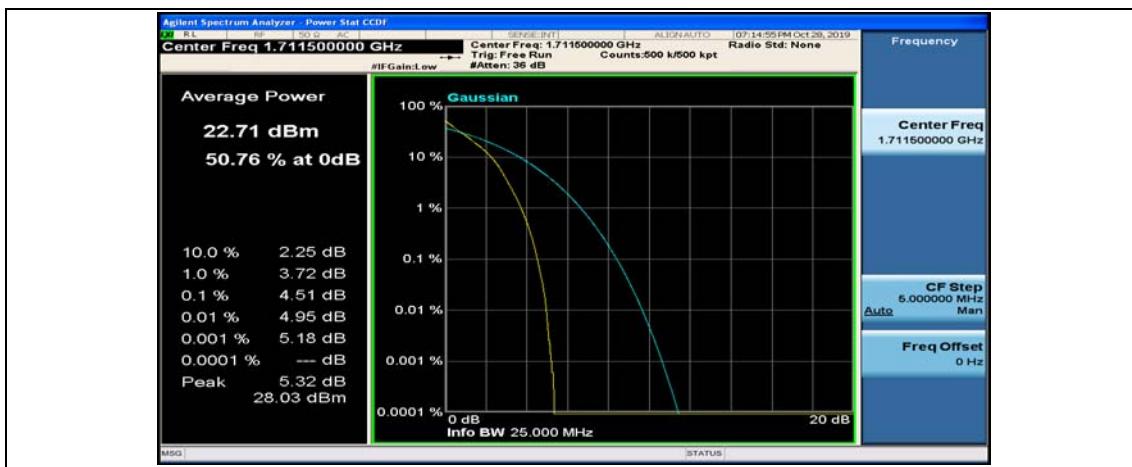




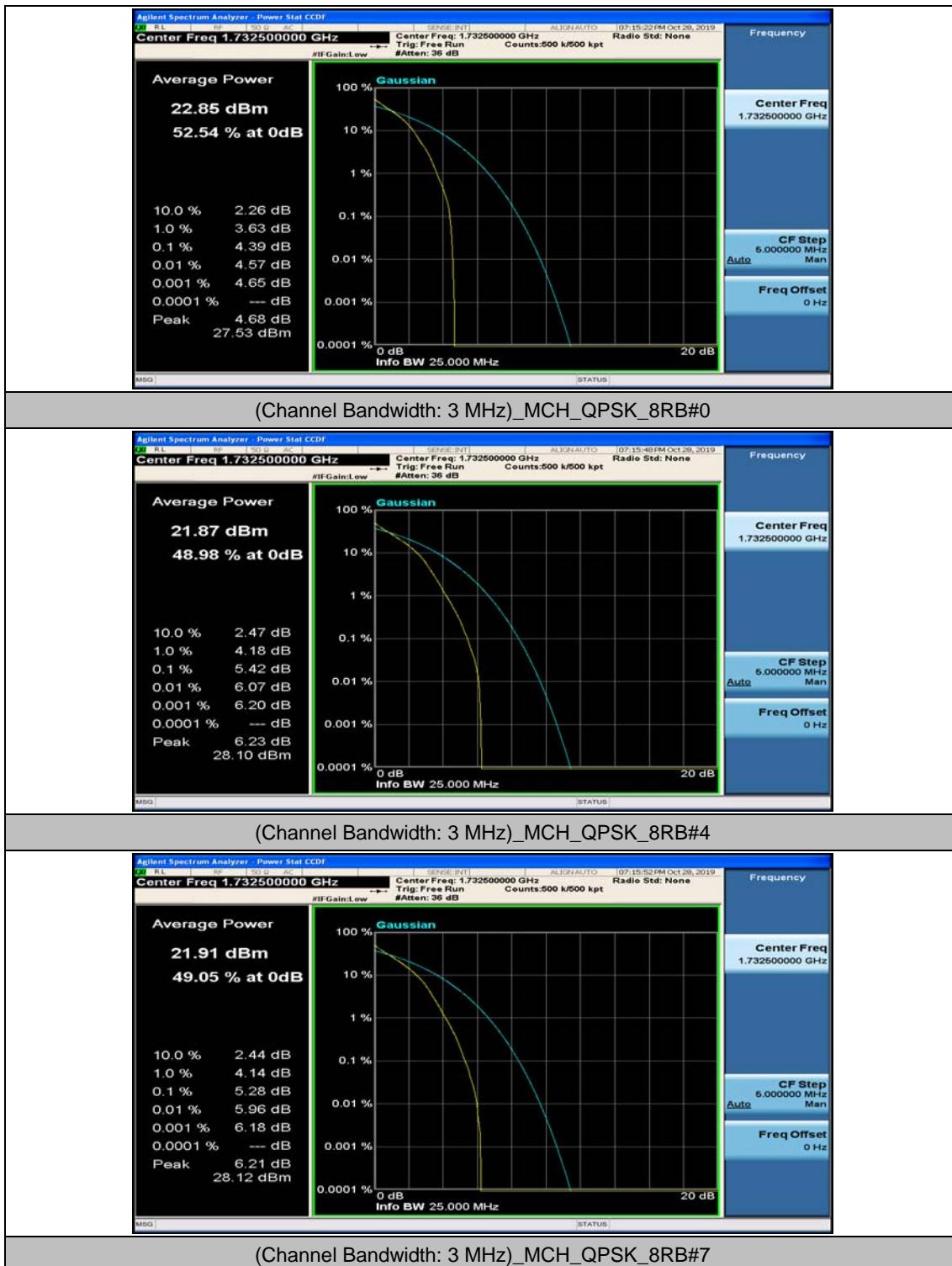
Channel Bandwidth: 3 MHz

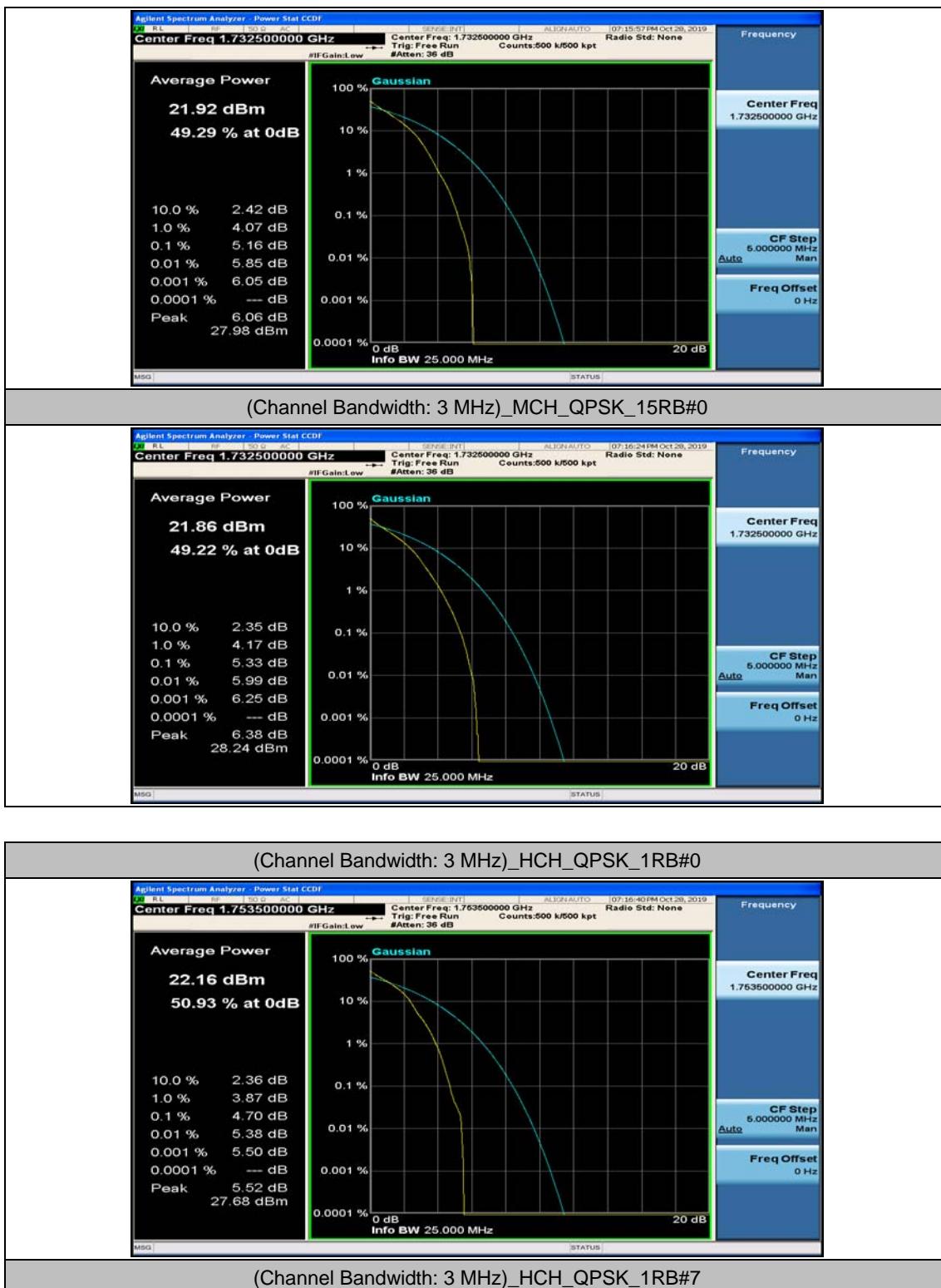


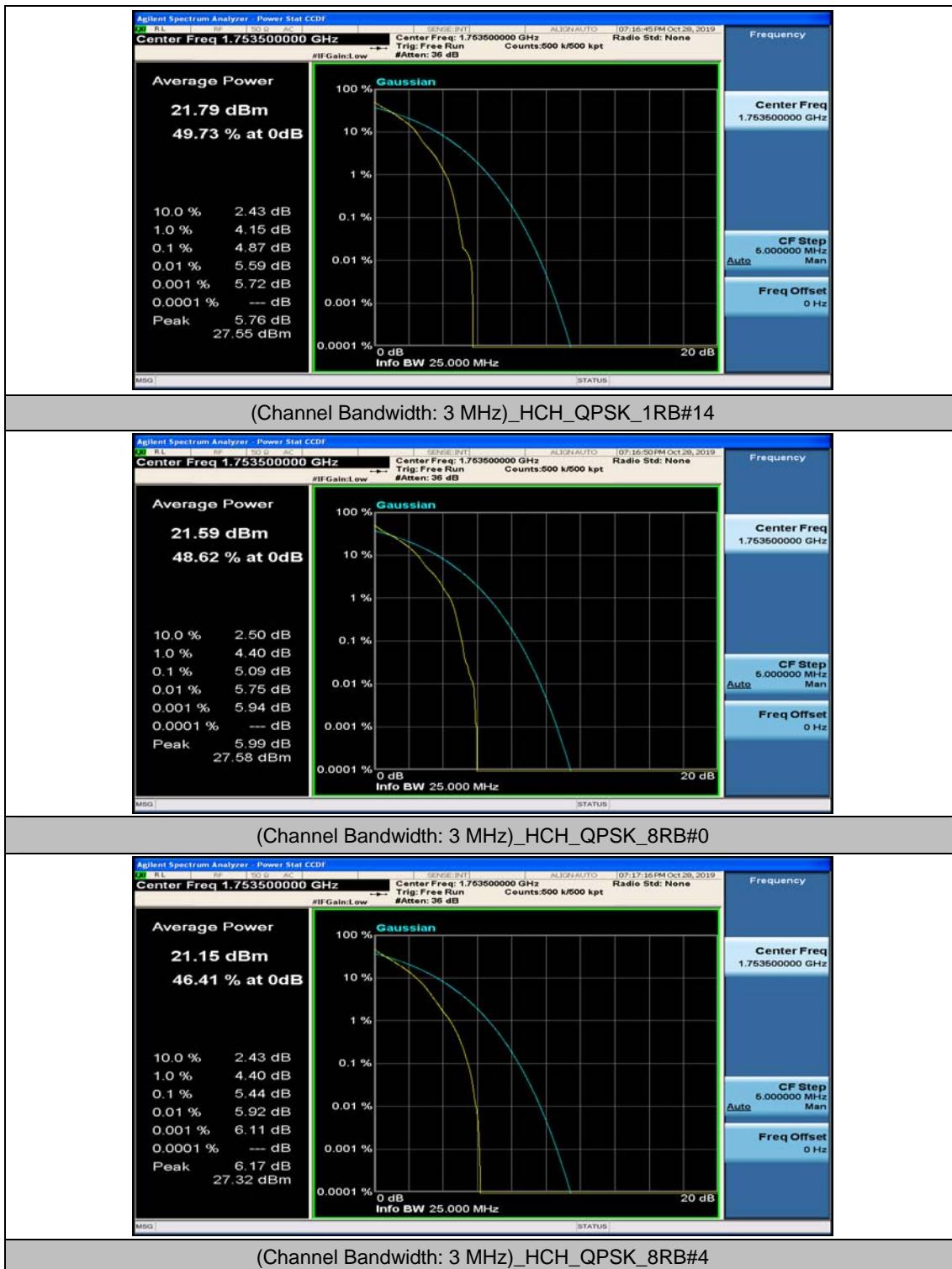


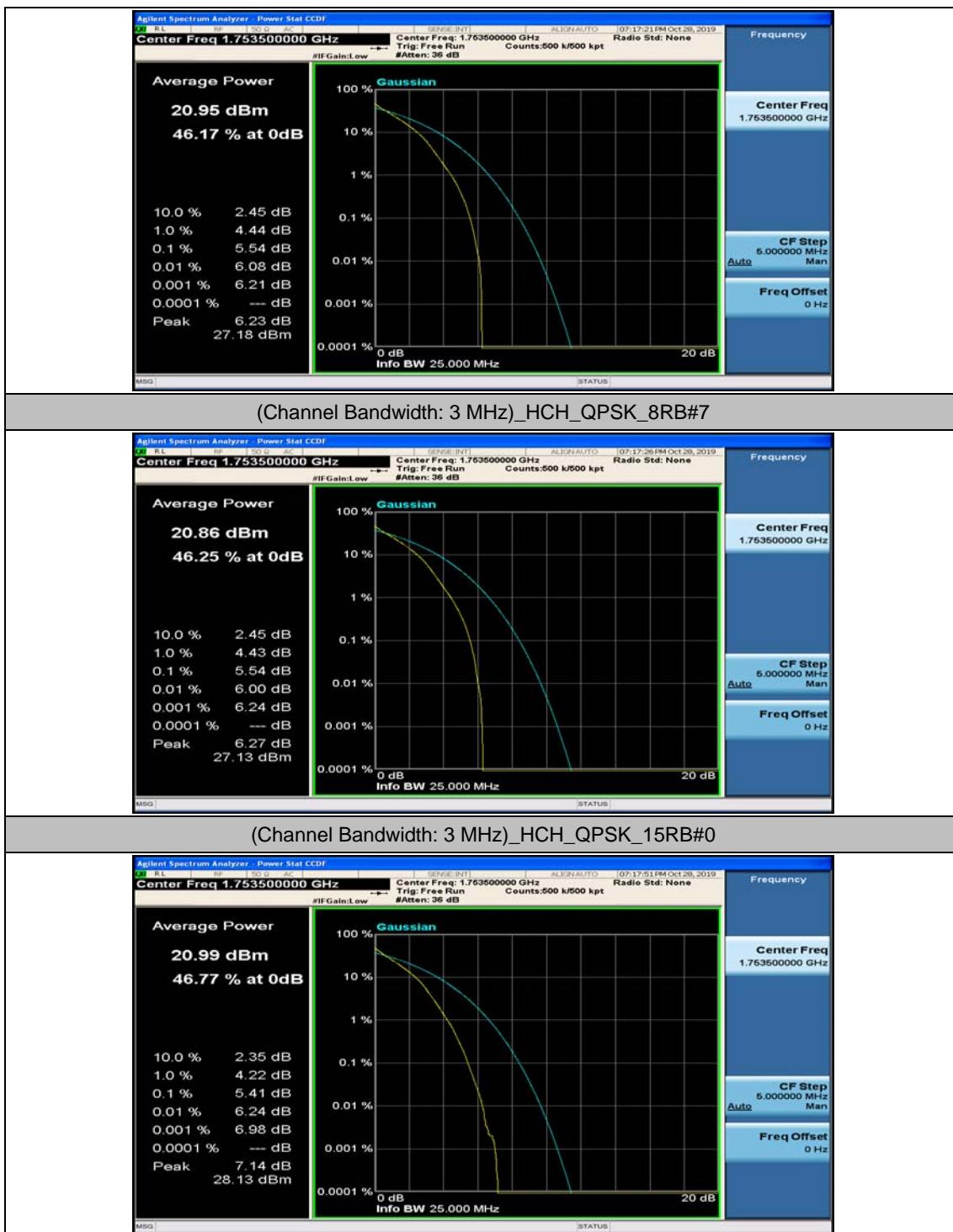


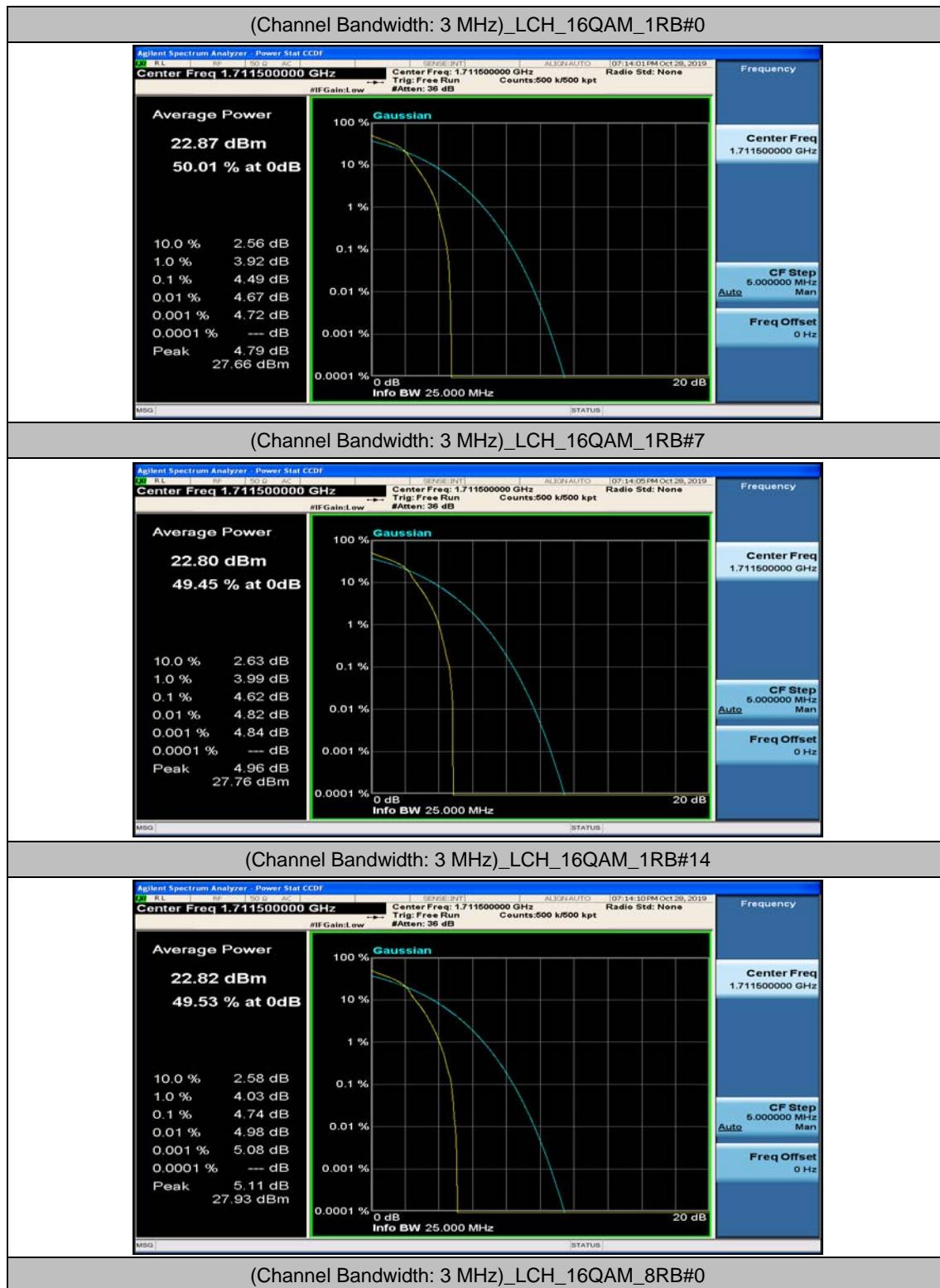
(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#14

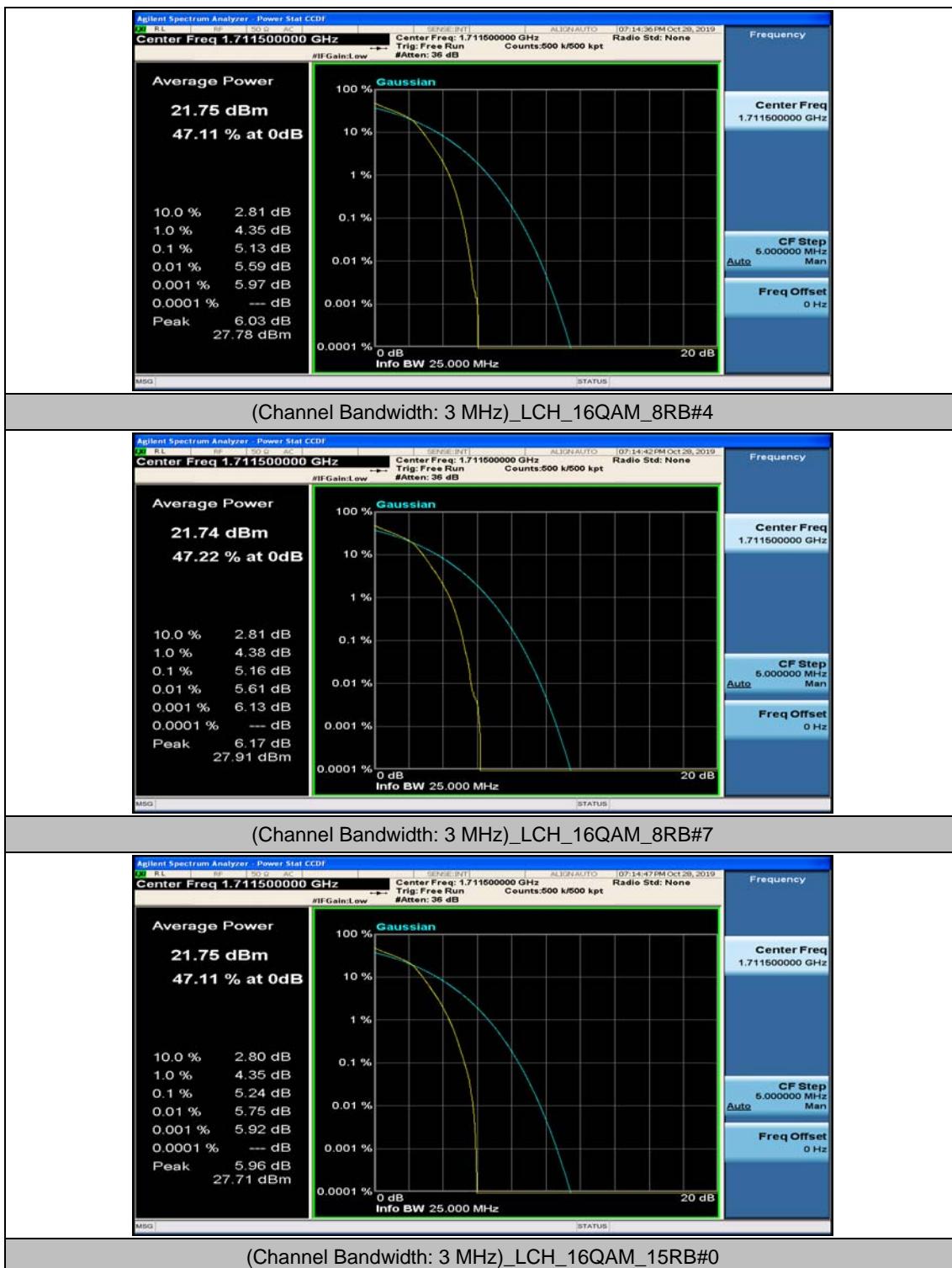


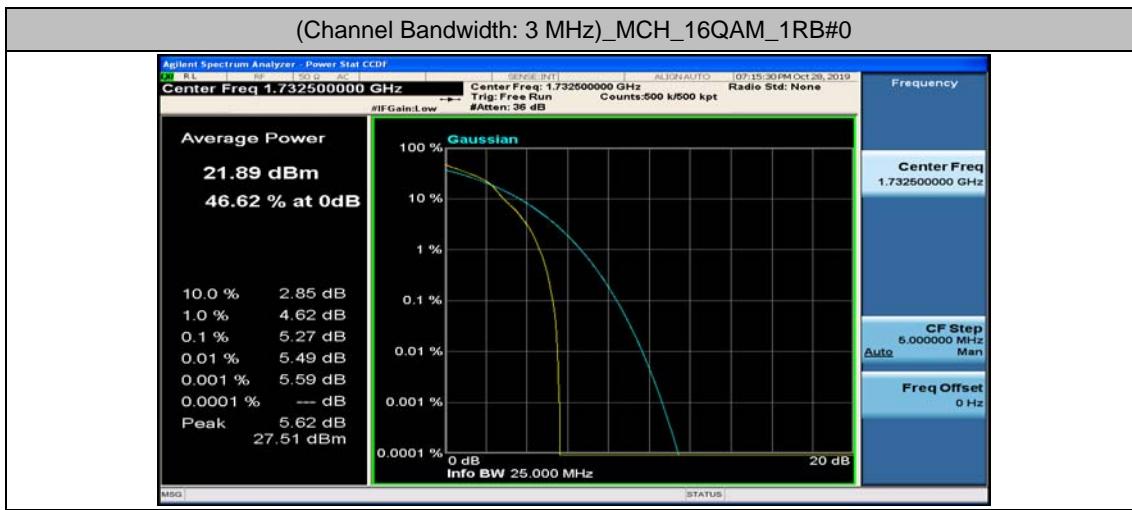
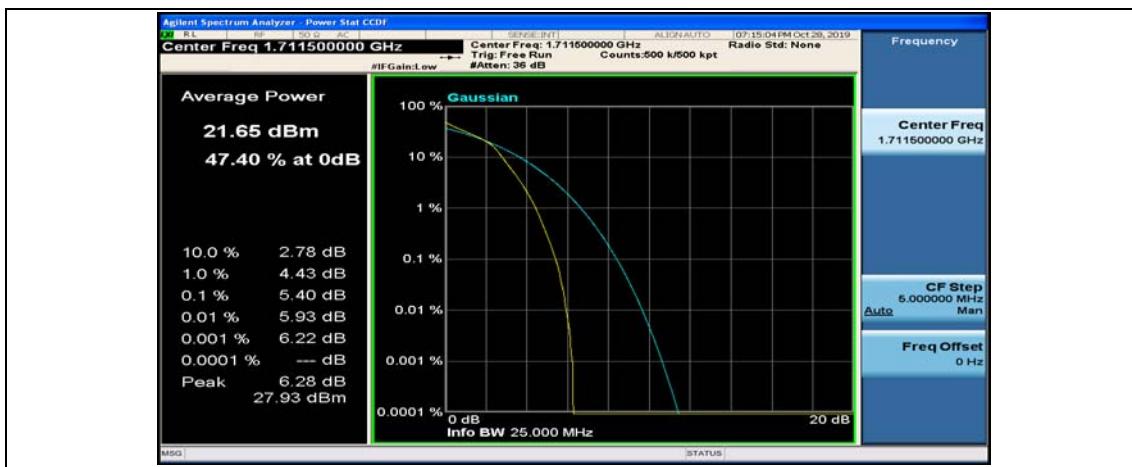




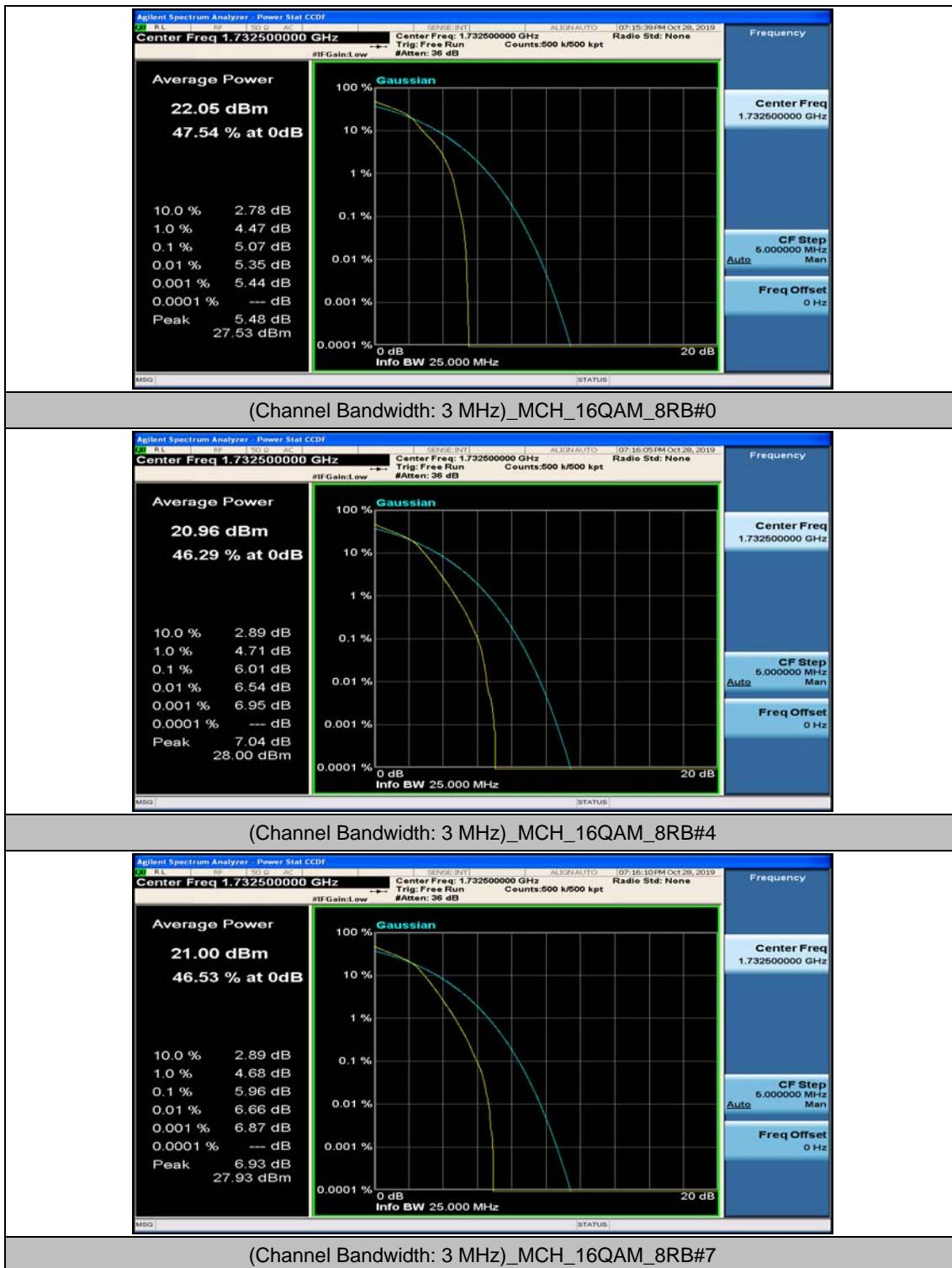


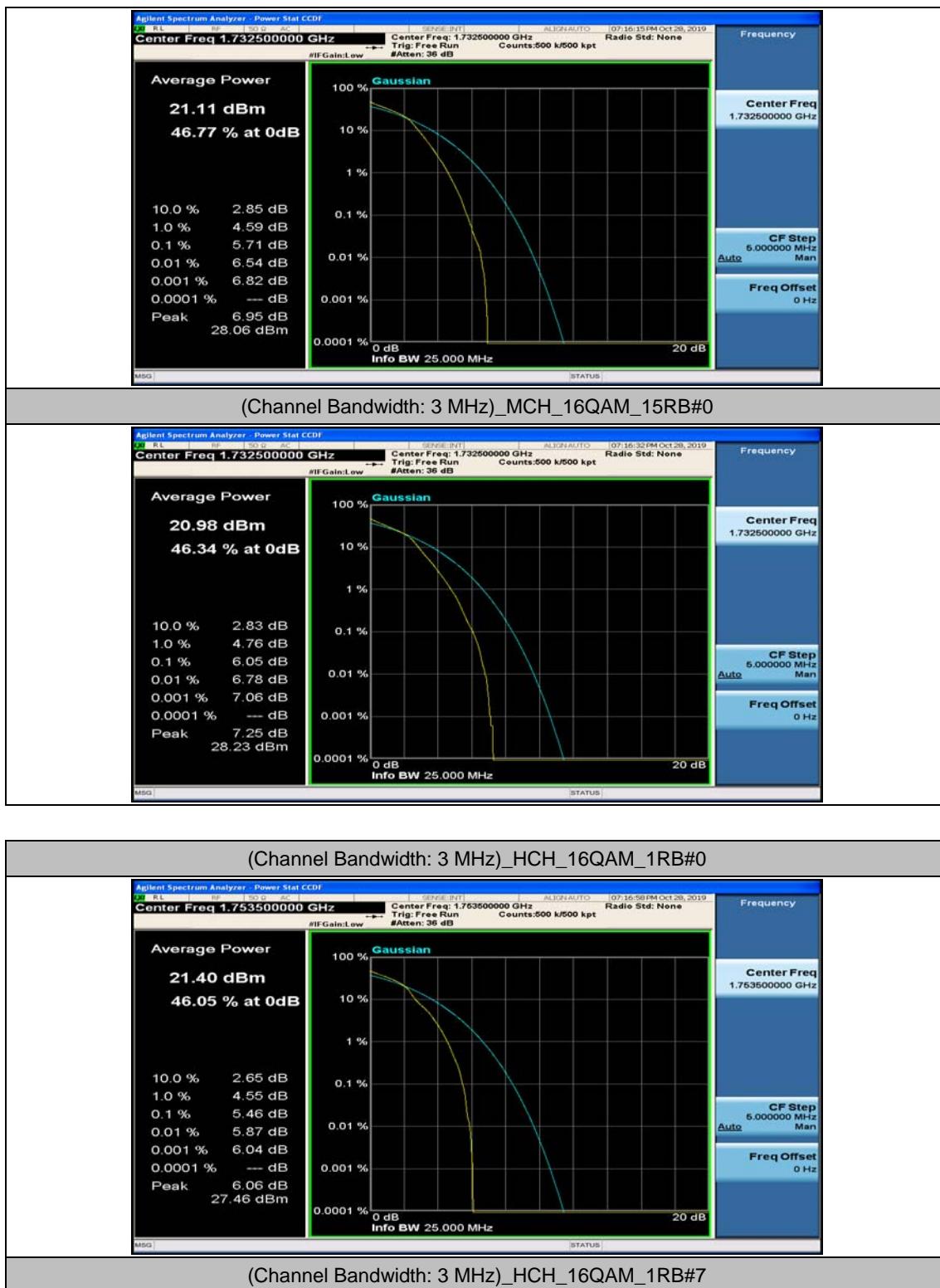


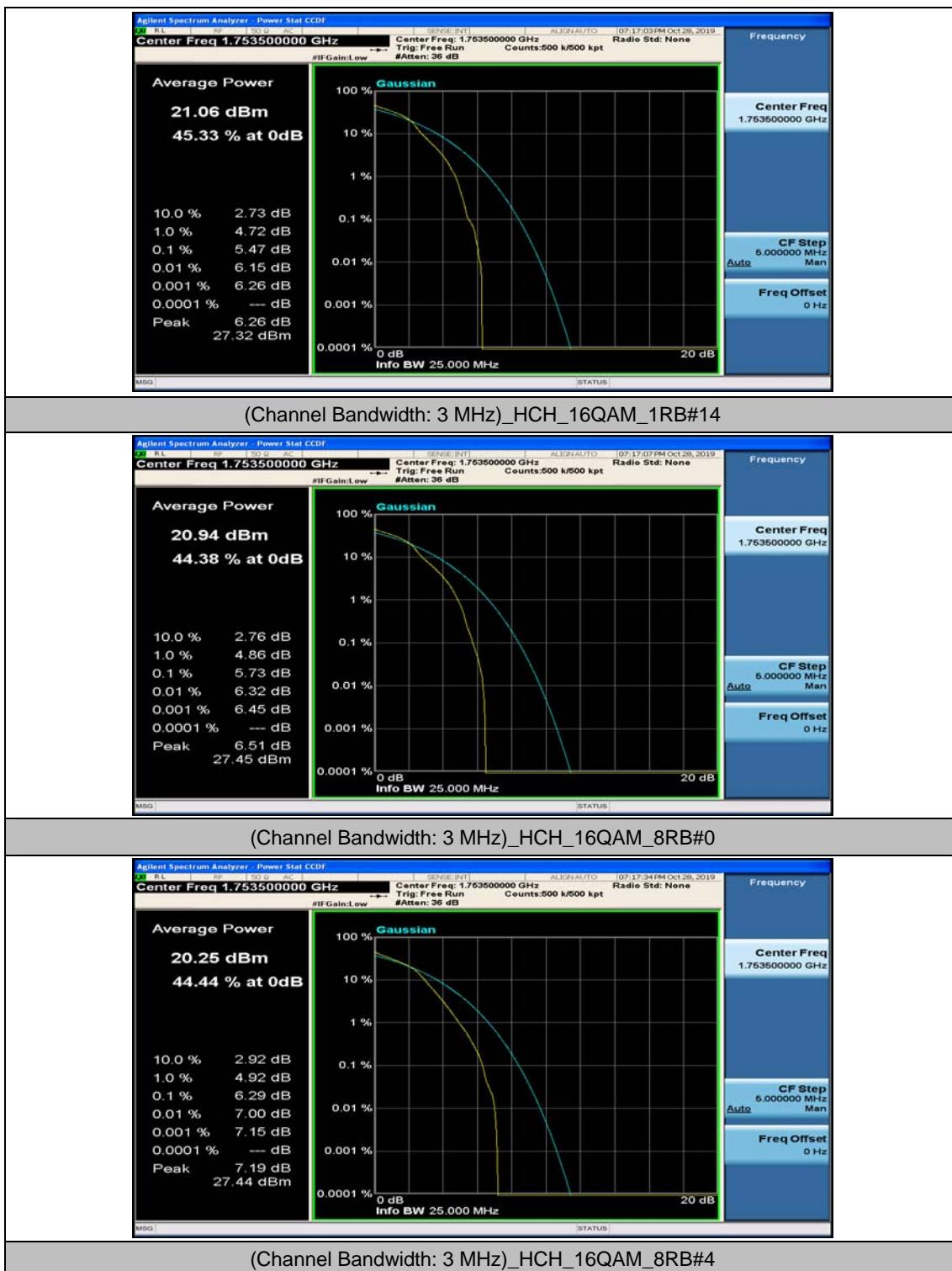


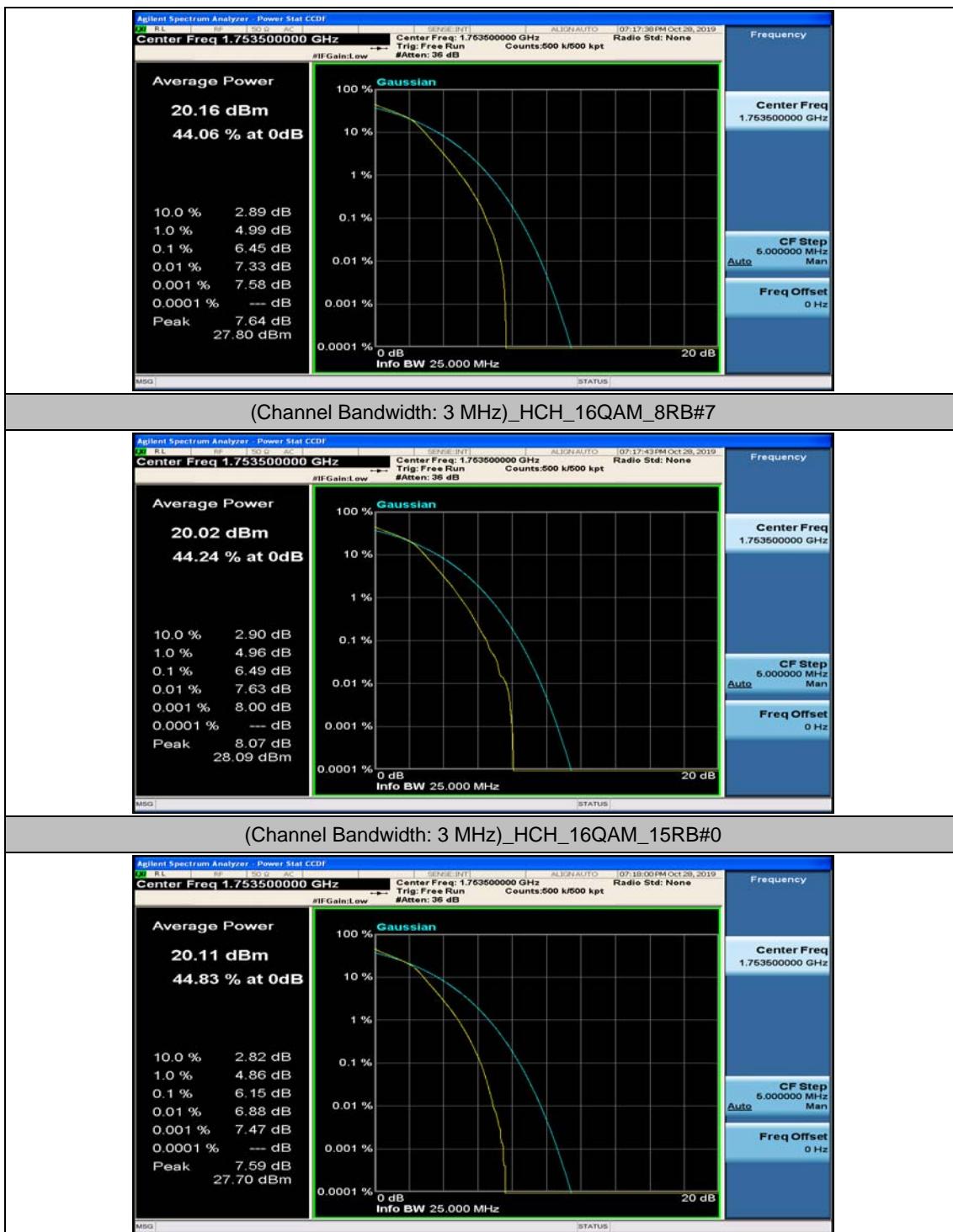


(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#14

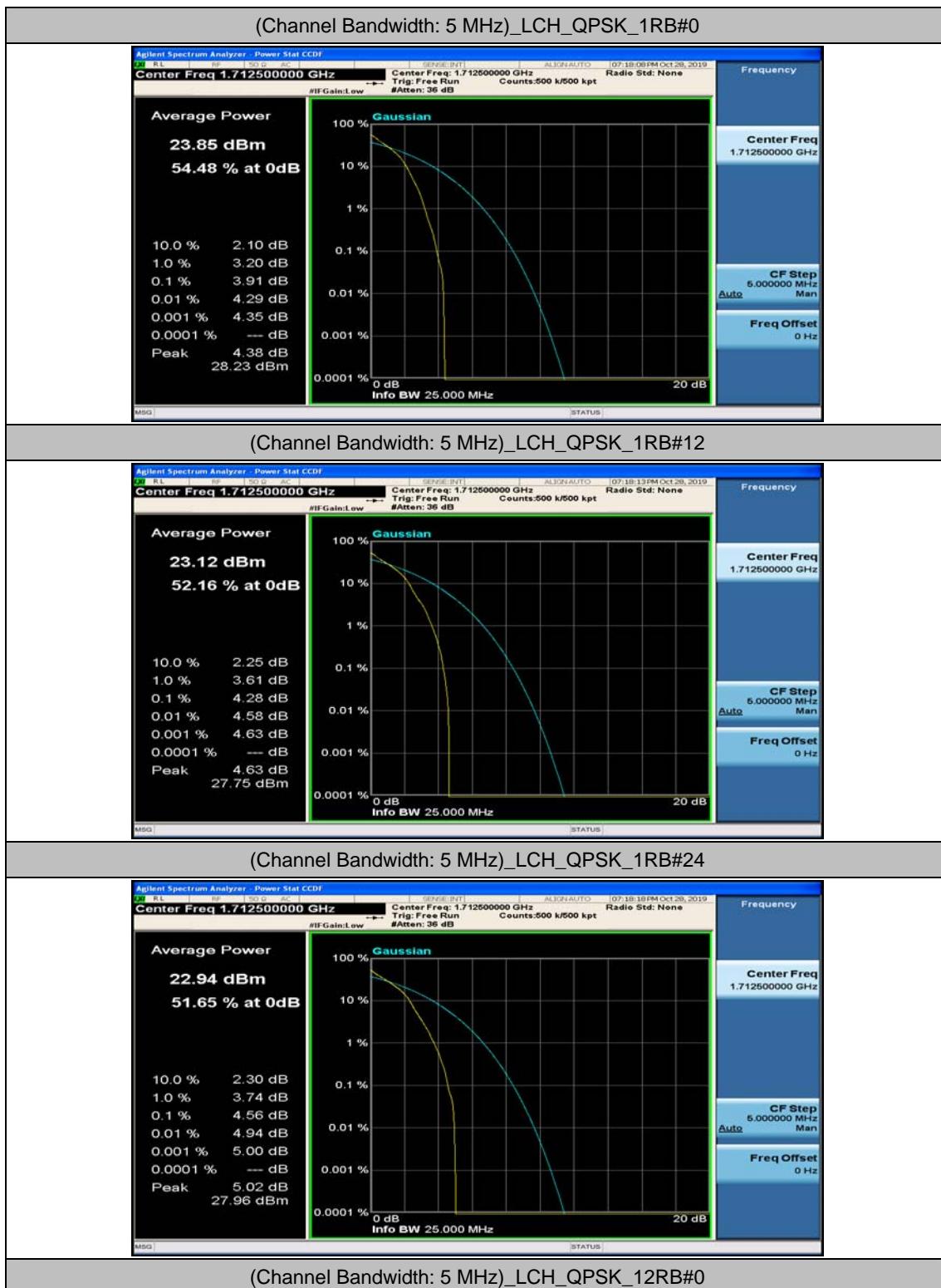


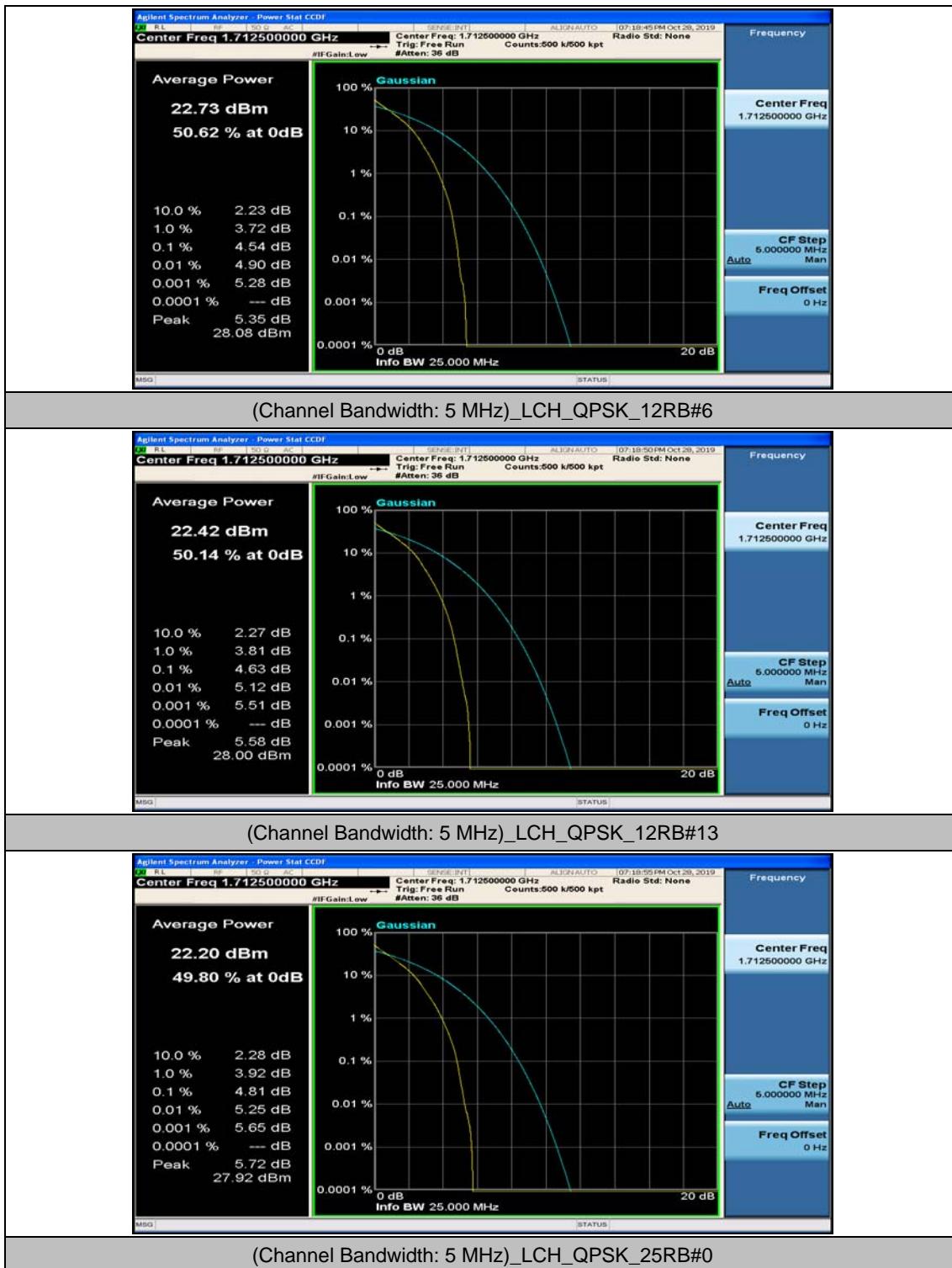


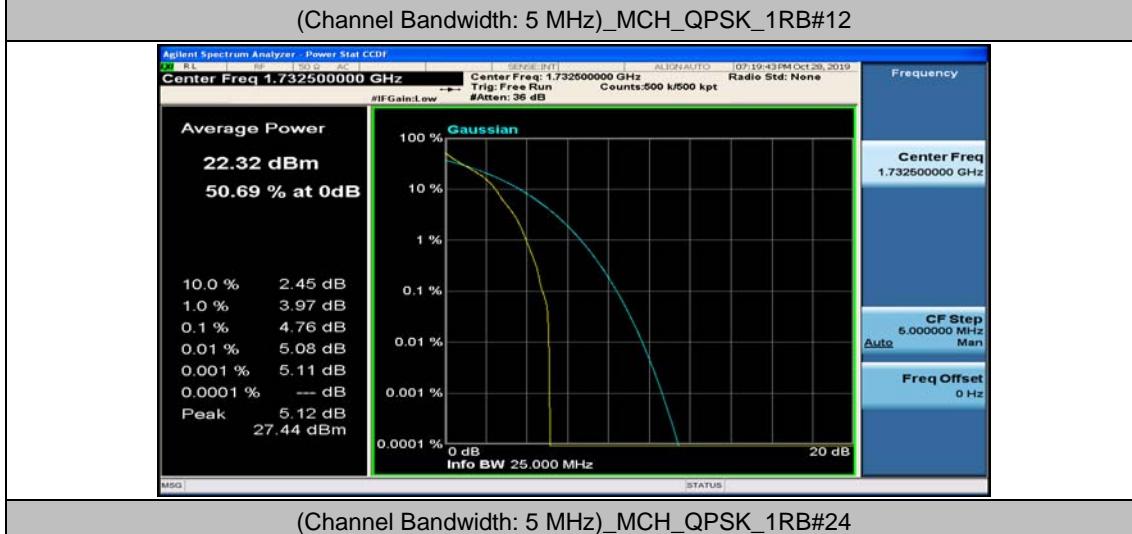
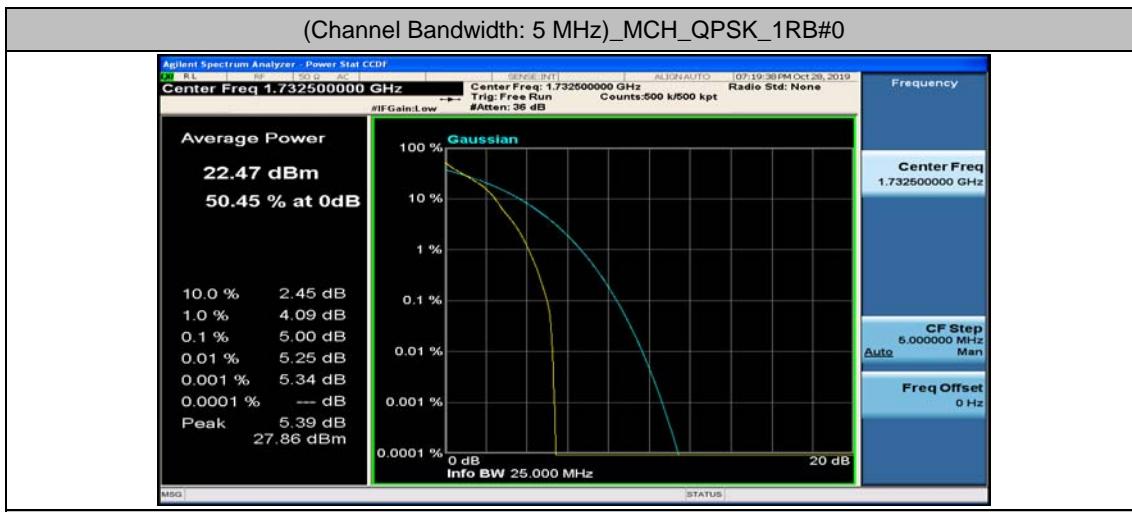
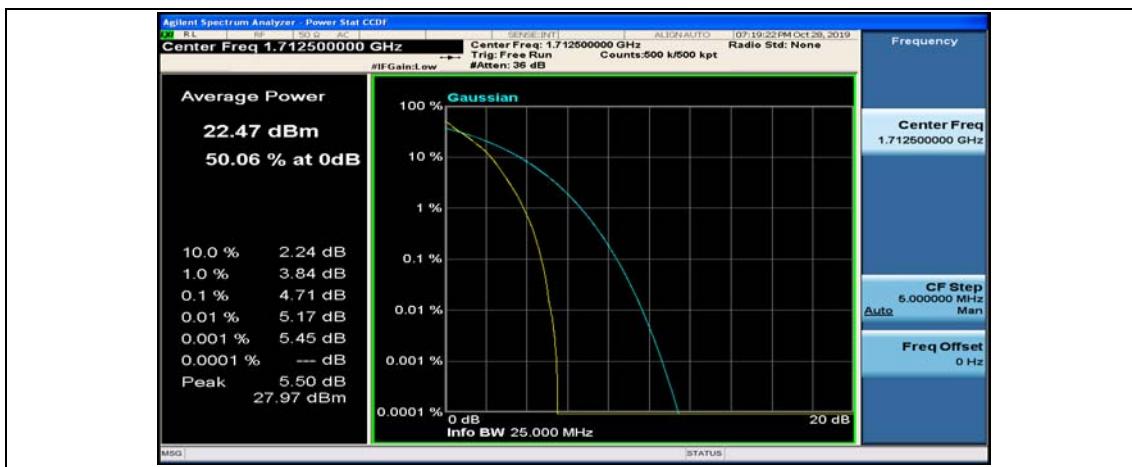


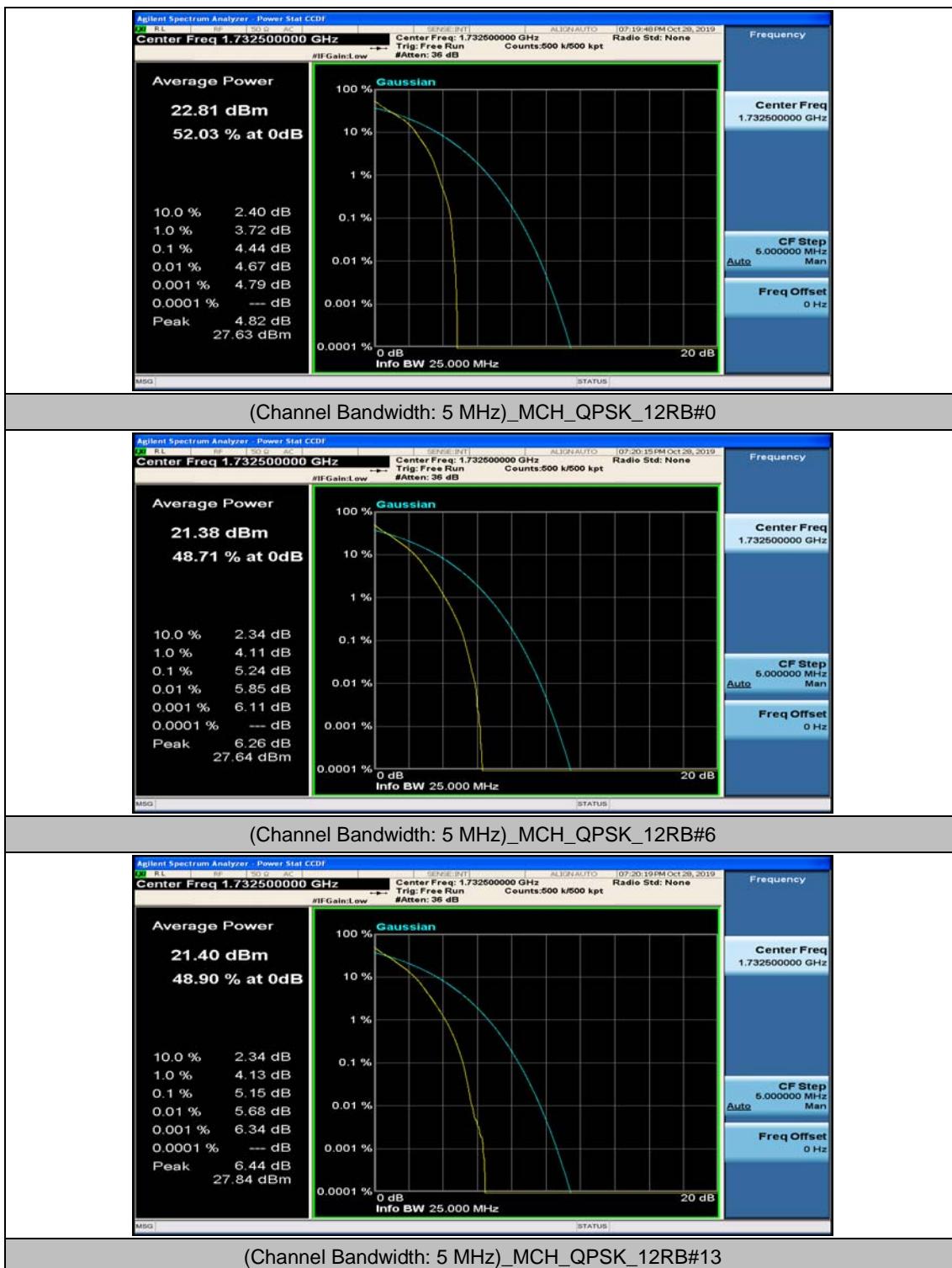


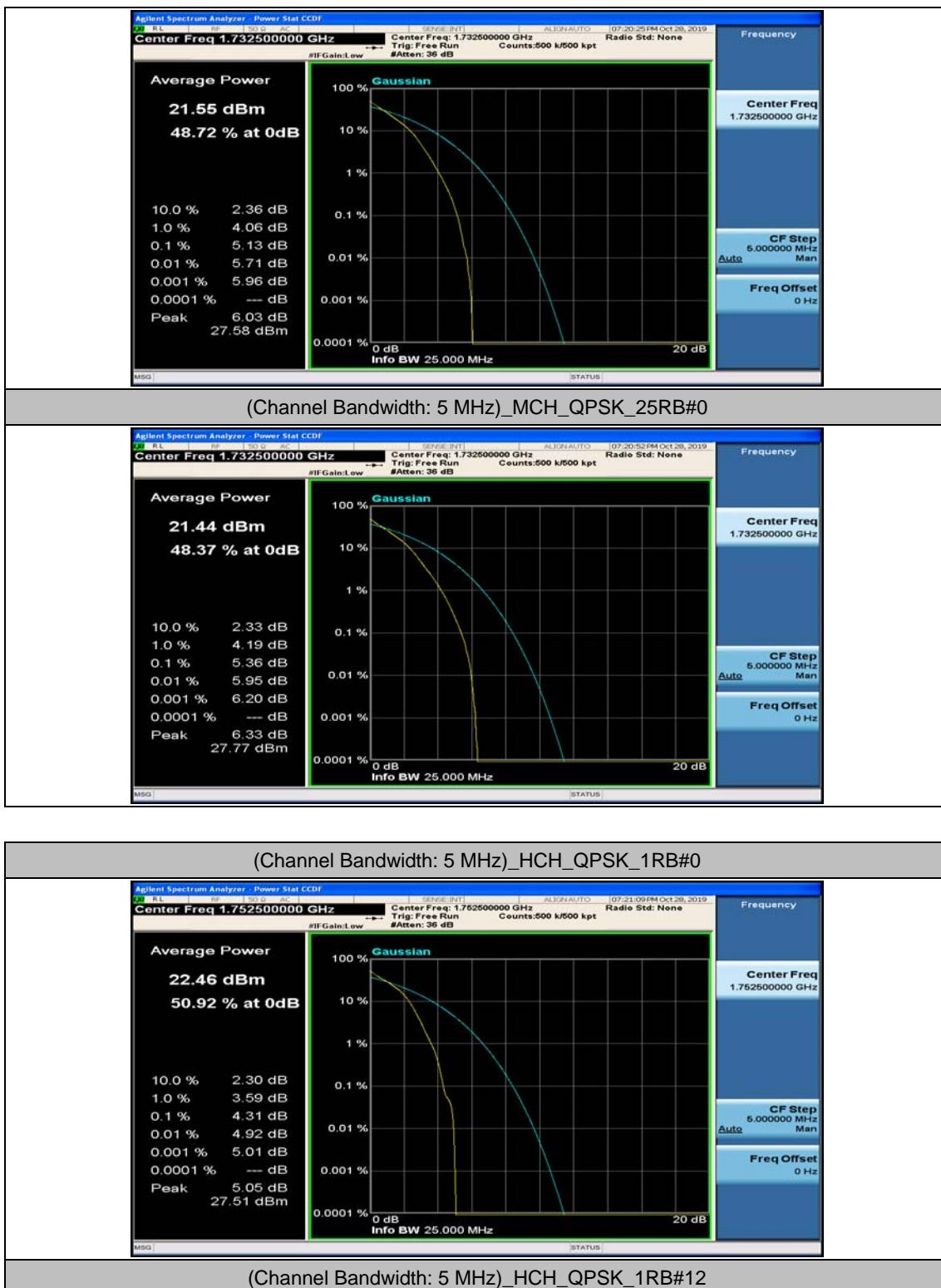
Channel Bandwidth: 5 MHz

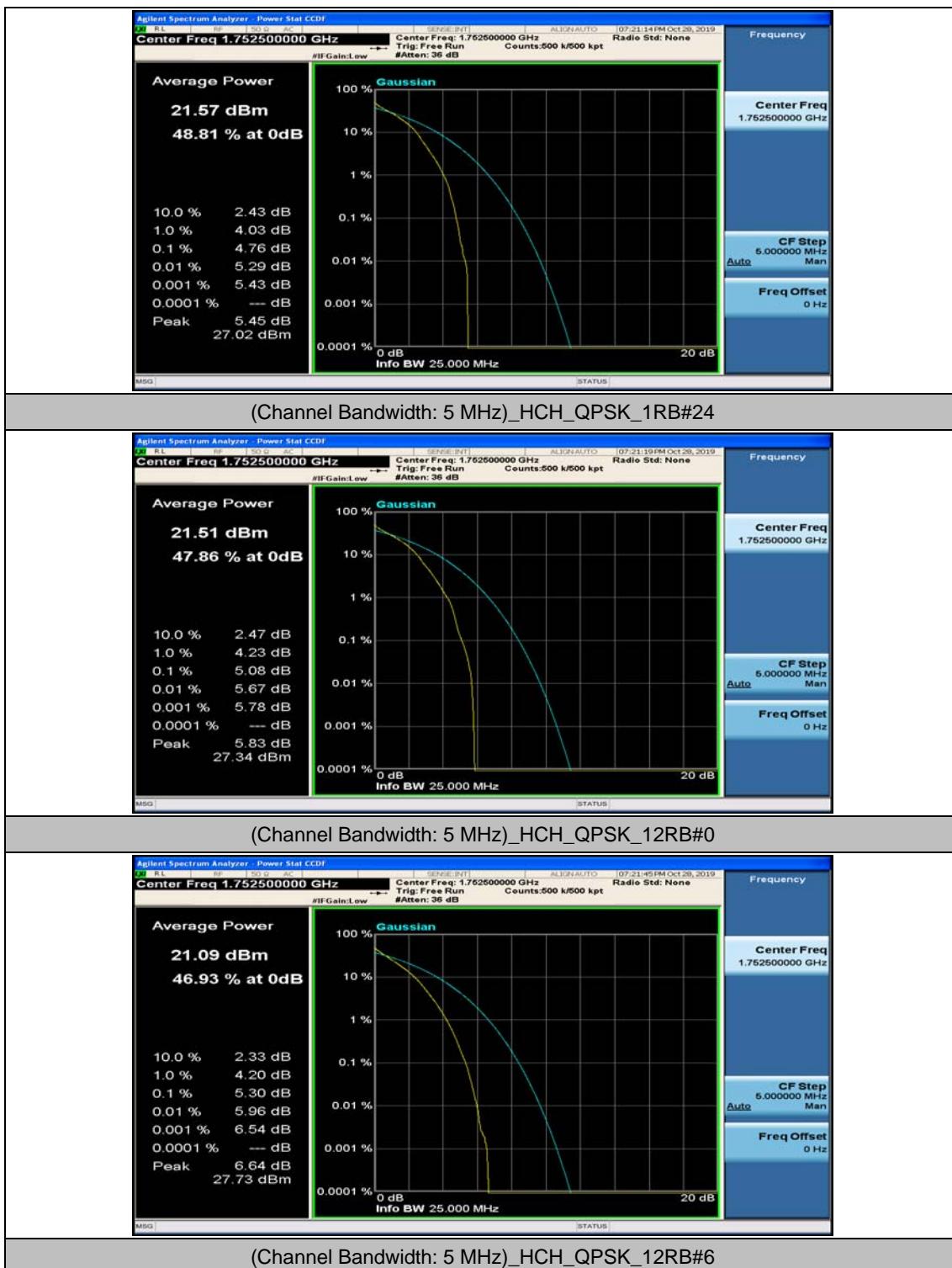


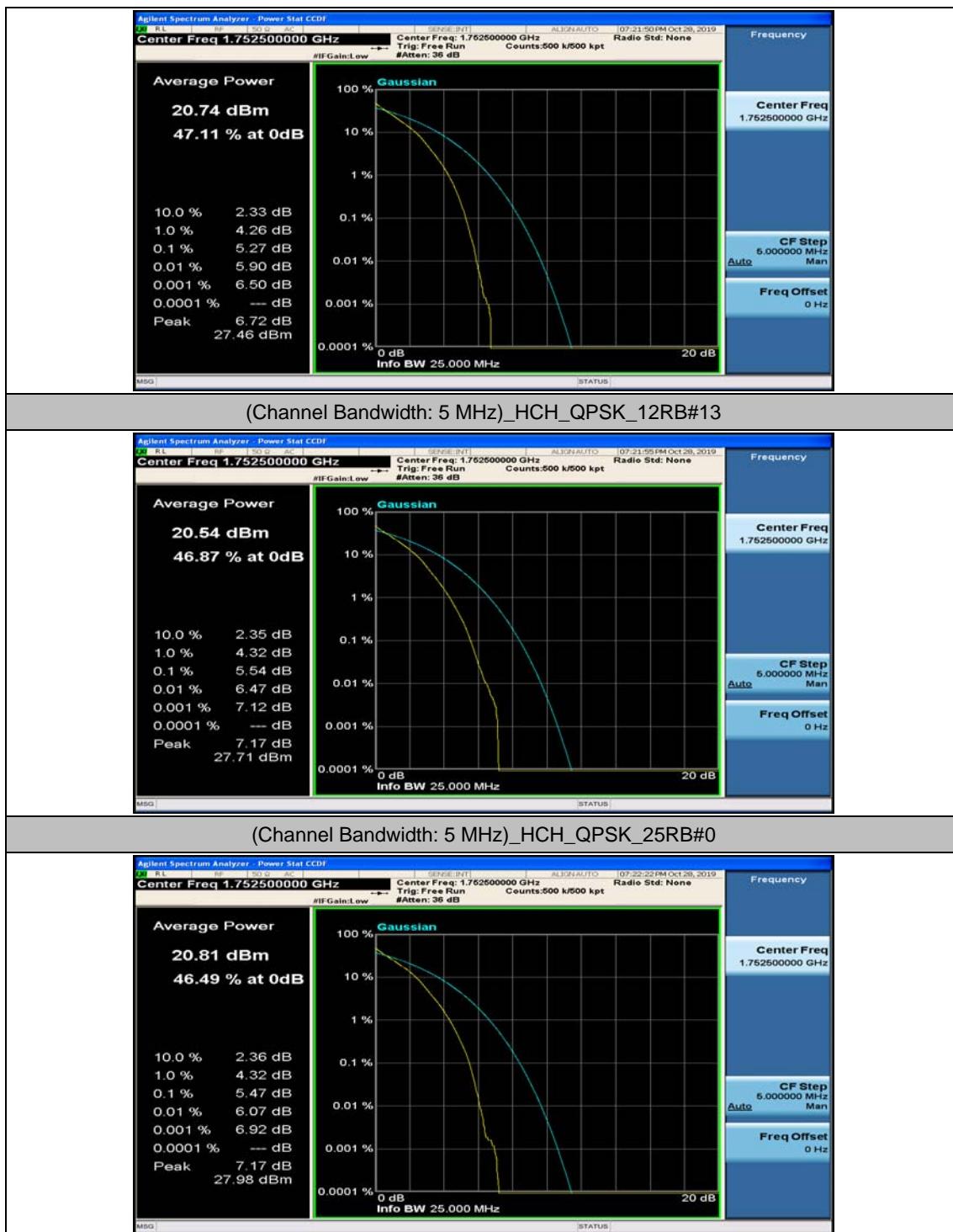


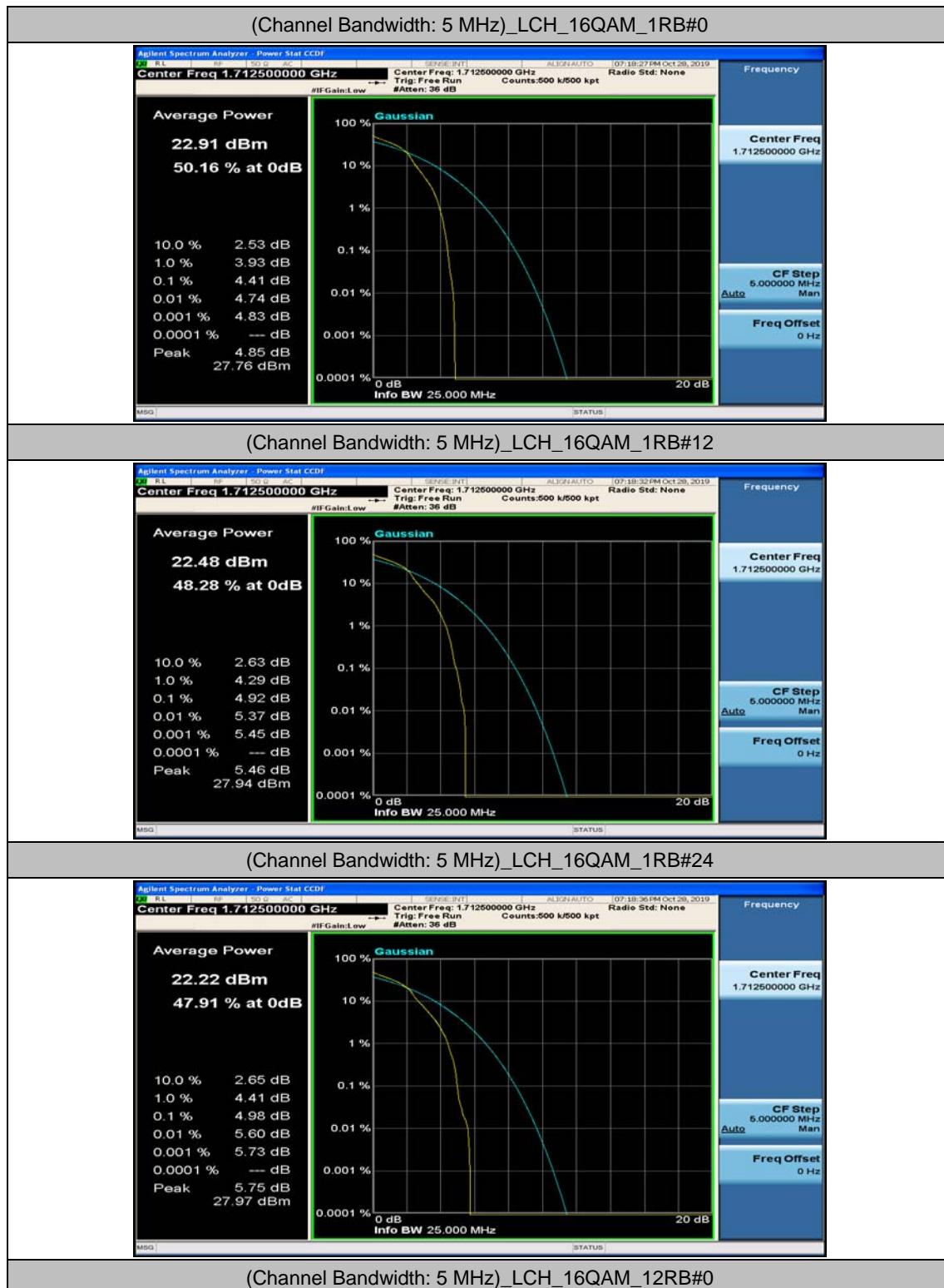


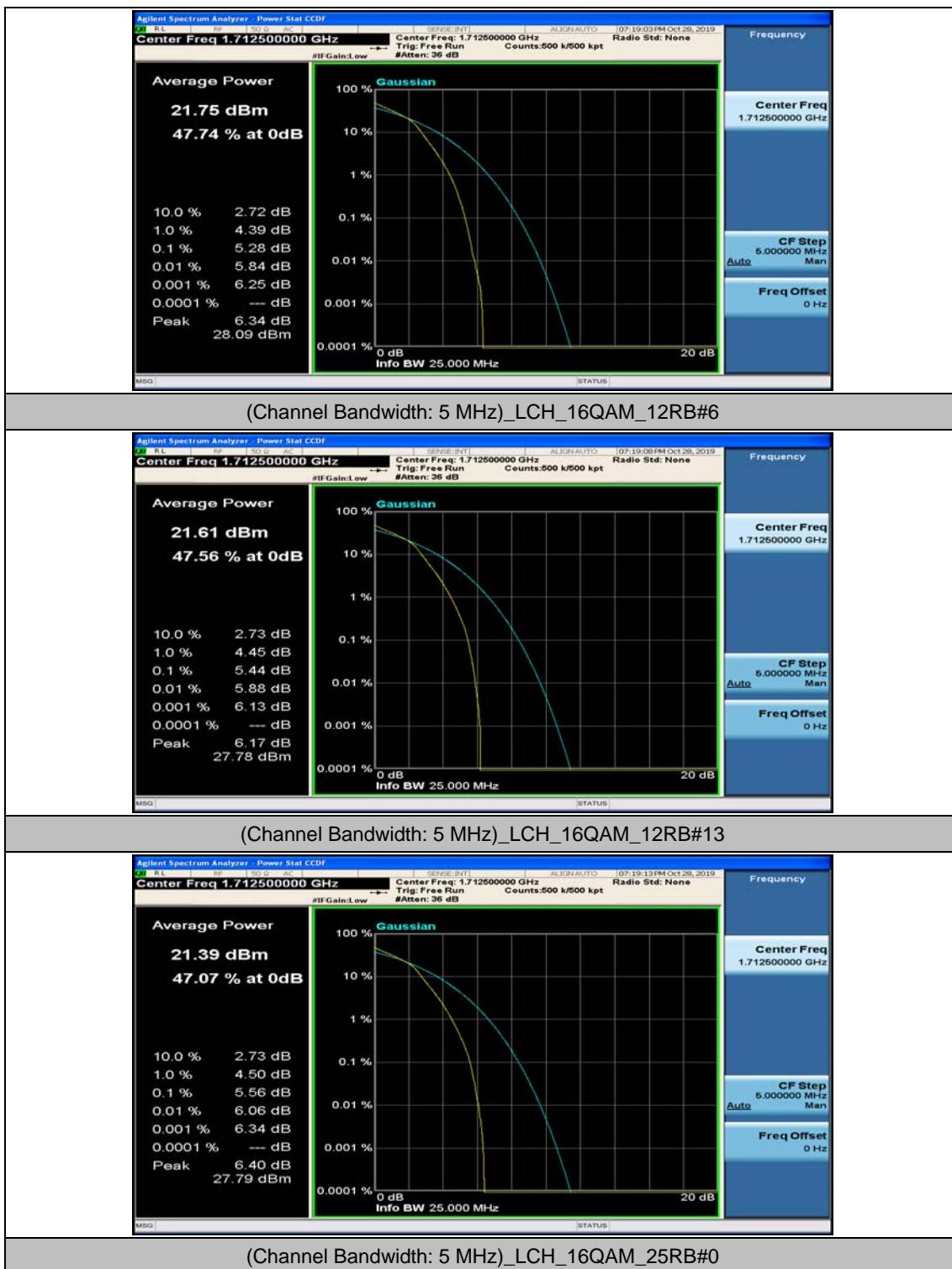


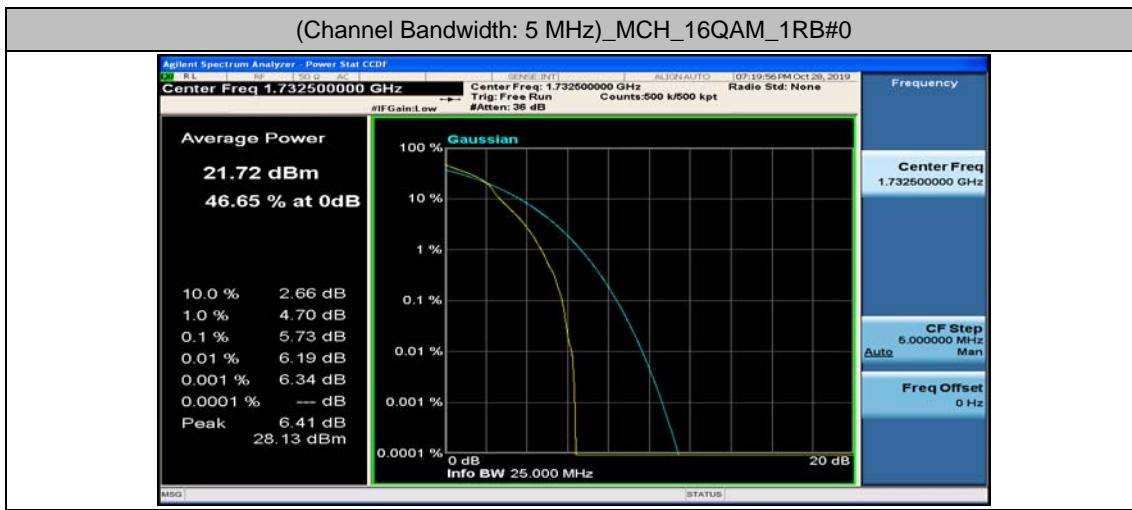












(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#24

