

## Appendix for Band 12

### 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	22.85	PASS
		1	3	22.99	PASS
		1	5	22.82	PASS
		3	0	21.9	PASS
		3	2	21.97	PASS
		3	3	21.93	PASS
		6	0	20.96	PASS
	MCH	1	0	22.48	PASS
		1	3	22.59	PASS
		1	5	22.41	PASS
		3	0	21.59	PASS
		3	2	21.6	PASS
		3	3	21.57	PASS
		6	0	20.62	PASS
16QAM	HCH	1	0	22.06	PASS
		1	3	22.18	PASS
		1	5	22.06	PASS
		3	0	22.17	PASS
		3	2	22.17	PASS
		3	3	22.11	PASS
		6	0	21.23	PASS
	LCH	1	0	22.19	PASS
		1	3	22.35	PASS
		1	5	22.14	PASS
		3	0	22.15	PASS
		3	2	22.14	PASS
		3	3	22.14	PASS
		6	0	20.91	PASS
	MCH	1	0	21.87	PASS
		1	3	21.95	PASS
		1	5	21.81	PASS

		3	0	21.61	PASS
		3	2	21.65	PASS
		3	3	21.6	PASS
		6	0	20.51	PASS
HCH	HCH	1	0	21.33	PASS
		1	3	21.41	PASS
		1	5	21.2	PASS
		3	0	21.3	PASS
		3	2	21.27	PASS
		3	3	21.22	PASS
		6	0	20.58	PASS

### Channel Bandwidth: 3 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	22.79	PASS
		1	7	23.05	PASS
		1	14	22.71	PASS
		8	0	21.98	PASS
		8	4	21.96	PASS
		8	7	21.92	PASS
		15	0	21.94	PASS
	MCH	1	0	22.53	PASS
		1	7	22.61	PASS
		1	14	22.39	PASS
		8	0	21.63	PASS
		8	4	21.69	PASS
		8	7	21.62	PASS
		15	0	21.55	PASS
	HCH	1	0	22.27	PASS
		1	7	22.34	PASS
		1	14	22.05	PASS
		8	0	21.26	PASS
		8	4	21.26	PASS
		8	7	21.24	PASS
		15	0	21.18	PASS
16QAM	LCH	1	0	22.13	PASS
		1	7	22.44	PASS
		1	14	22.14	PASS
		8	0	21	PASS
		8	4	21.07	PASS
		8	7	20.98	PASS

		15	0	20.93	PASS
MCH		1	0	21.92	PASS
		1	7	22.04	PASS
		1	14	21.82	PASS
		8	0	20.59	PASS
		8	4	20.57	PASS
		8	7	20.52	PASS
		15	0	20.55	PASS
HCH		1	0	21.61	PASS
		1	7	21.63	PASS
		1	14	21.2	PASS
		8	0	20.65	PASS
		8	4	20.75	PASS
		8	7	20.63	PASS
		15	0	20.47	PASS

### Channel Bandwidth: 5 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	22.76	PASS
		1	12	23.15	PASS
		1	24	22.55	PASS
		12	0	21.96	PASS
		12	6	21.92	PASS
		12	13	21.82	PASS
		25	0	21.95	PASS
	MCH	1	0	22.48	PASS
		1	12	22.79	PASS
		1	24	22.31	PASS
		12	0	21.46	PASS
		12	6	21.61	PASS
		12	13	21.42	PASS
		25	0	21.48	PASS
	HCH	1	0	22.25	PASS
		1	12	22.39	PASS
		1	24	22.72	PASS
		12	0	21.41	PASS
		12	6	21.35	PASS
		12	13	21.25	PASS
		25	0	21.4	PASS
16QAM	LCH	1	0	22.12	PASS
		1	12	22.05	PASS

		1	24	21.93	PASS
		12	0	21.05	PASS
		12	6	21.01	PASS
		12	13	20.91	PASS
		25	0	20.96	PASS
	MCH	1	0	21.76	PASS
		1	12	22	PASS
		1	24	21.58	PASS
		12	0	20.66	PASS
		12	6	20.74	PASS
		12	13	20.58	PASS
		25	0	20.51	PASS
	HCH	1	0	21.51	PASS
		1	12	21.79	PASS
		1	24	21.18	PASS
		12	0	20.47	PASS
		12	6	20.38	PASS
		12	13	20.63	PASS
		25	0	20.42	PASS

### Channel Bandwidth: 10 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	22.71	PASS
		1	24	23.16	PASS
		1	49	22.36	PASS
		25	0	22.14	PASS
		25	12	22.18	PASS
		25	25	22.15	PASS
		50	0	22.19	PASS
	MCH	1	0	22.59	PASS
		1	24	22.56	PASS
		1	49	22.24	PASS
		25	0	21.47	PASS
		25	12	21.55	PASS
		25	25	21.27	PASS
		50	0	21.37	PASS
	HCH	1	0	22.48	PASS
		1	24	22.43	PASS
		1	49	22.05	PASS
		25	0	21.67	PASS
		25	12	21.5	PASS

		25	25	21.29	PASS
		50	0	21.53	PASS
16QAM	LCH	1	0	22.14	PASS
		1	24	22.07	PASS
		1	49	21.65	PASS
		25	0	20.96	PASS
		25	12	20.76	PASS
		25	25	20.82	PASS
		50	0	20.89	PASS
	MCH	1	0	22.11	PASS
		1	24	21.99	PASS
		1	49	21.76	PASS
		25	0	20.47	PASS
		25	12	20.57	PASS
		25	25	20.33	PASS
		50	0	20.39	PASS
	HCH	1	0	21.16	PASS
		1	24	21.79	PASS
		1	49	21.25	PASS
		25	0	20.6	PASS
		25	12	20.48	PASS
		25	25	20.32	PASS
		50	0	20.51	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	4.19	<13	PASS
		1	3	4.1	<13	PASS
		1	5	4.4	<13	PASS
		3	0	4.13	<13	PASS
		3	2	4.19	<13	PASS
		3	3	4.18	<13	PASS
		6	0	5.02	<13	PASS
	MCH	1	0	3.43	<13	PASS
		1	3	3.37	<13	PASS
		1	5	3.47	<13	PASS
		3	0	3.38	<13	PASS
		3	2	3.4	<13	PASS
		3	3	3.41	<13	PASS
		6	0	4.19	<13	PASS
16QAM	LCH	1	0	3.76	<13	PASS
		1	3	3.14	<13	PASS
		1	5	3.13	<13	PASS
		3	0	3.3	<13	PASS
		3	2	3.04	<13	PASS
		3	3	3.11	<13	PASS
		6	0	4.09	<13	PASS
	MCH	1	0	5.14	<13	PASS
		1	3	4.98	<13	PASS
		1	5	5.31	<13	PASS
		3	0	5	<13	PASS
		3	2	5.06	<13	PASS
		3	3	5.13	<13	PASS
		6	0	6.01	<13	PASS

		3	2	4.17	<13	PASS
		3	3	4.12	<13	PASS
		6	0	5.11	<13	PASS
HCH		1	0	4.66	<13	PASS
		1	3	4.06	<13	PASS
		1	5	4.2	<13	PASS
		3	0	4.36	<13	PASS
		3	2	4.16	<13	PASS
		3	3	4.14	<13	PASS
		6	0	5.15	<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	4.22	<13	PASS
		1	7	4.32	<13	PASS
		1	14	4.4	<13	PASS
		8	0	5.15	<13	PASS
		8	4	5.24	<13	PASS
		8	7	5.27	<13	PASS
		15	0	5.21	<13	PASS
	MCH	1	0	3.33	<13	PASS
		1	7	3.29	<13	PASS
		1	14	3.56	<13	PASS
		8	0	4.21	<13	PASS
		8	4	4.16	<13	PASS
		8	7	4.32	<13	PASS
		15	0	4.34	<13	PASS
	HCH	1	0	4.51	<13	PASS
		1	7	3.64	<13	PASS
		1	14	3	<13	PASS
		8	0	5.06	<13	PASS
		8	4	4.55	<13	PASS
		8	7	4.21	<13	PASS
		15	0	4.63	<13	PASS
16QAM	LCH	1	0	5.1	<13	PASS
		1	7	5.12	<13	PASS
		1	14	5.38	<13	PASS
		8	0	5.97	<13	PASS
		8	4	6.06	<13	PASS

		8	7	6.12	<13	PASS
		15	0	6.32	<13	PASS
MCH		1	0	4.34	<13	PASS
		1	7	4.04	<13	PASS
		1	14	4.42	<13	PASS
		8	0	5.16	<13	PASS
		8	4	5.1	<13	PASS
		8	7	5.25	<13	PASS
		15	0	5.25	<13	PASS
HCH		1	0	5.37	<13	PASS
		1	7	4.82	<13	PASS
		1	14	4.05	<13	PASS
		8	0	6.03	<13	PASS
		8	4	5.61	<13	PASS
		8	7	5.35	<13	PASS
		15	0	5.67	<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	4.45	<13	PASS
		1	12	4.4	<13	PASS
		1	24	4.41	<13	PASS
		12	0	5.28	<13	PASS
		12	6	5.23	<13	PASS
		12	13	5.16	<13	PASS
		25	0	5.17	<13	PASS
	MCH	1	0	3.8	<13	PASS
		1	12	3.37	<13	PASS
		1	24	4.04	<13	PASS
		12	0	4.4	<13	PASS
		12	6	4.23	<13	PASS
		12	13	4.48	<13	PASS
		25	0	4.53	<13	PASS
	HCH	1	0	4.61	<13	PASS
		1	12	4.33	<13	PASS
		1	24	3.18	<13	PASS
		12	0	5.43	<13	PASS
		12	6	5.23	<13	PASS
		12	13	4.56	<13	PASS

		25	0	4.99	<13	PASS
16QAM	LCH	1	0	5.15	<13	PASS
		1	12	5.2	<13	PASS
		1	24	5.13	<13	PASS
		12	0	6.08	<13	PASS
		12	6	6.16	<13	PASS
		12	13	6.07	<13	PASS
		25	0	6.03	<13	PASS
	MCH	1	0	4.79	<13	PASS
		1	12	4.09	<13	PASS
		1	24	4.99	<13	PASS
		12	0	5.27	<13	PASS
		12	6	5.09	<13	PASS
		12	13	5.33	<13	PASS
		25	0	5.48	<13	PASS
	HCH	1	0	5.35	<13	PASS
		1	12	4.94	<13	PASS
		1	24	4.22	<13	PASS
		12	0	6.22	<13	PASS
		12	6	6.09	<13	PASS
		12	13	5.51	<13	PASS
		25	0	5.96	<13	PASS

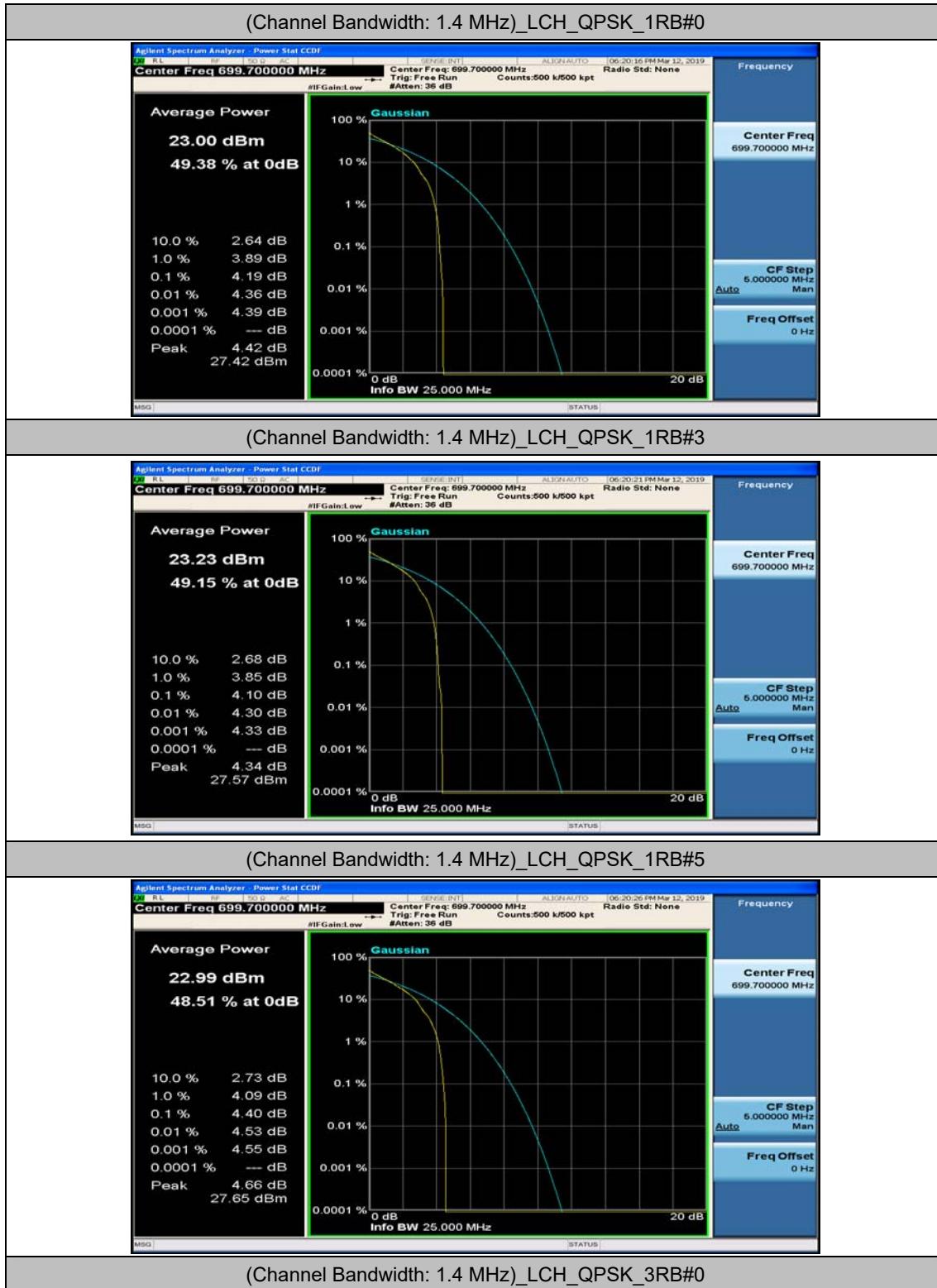
### Channel Bandwidth: 10 MHz

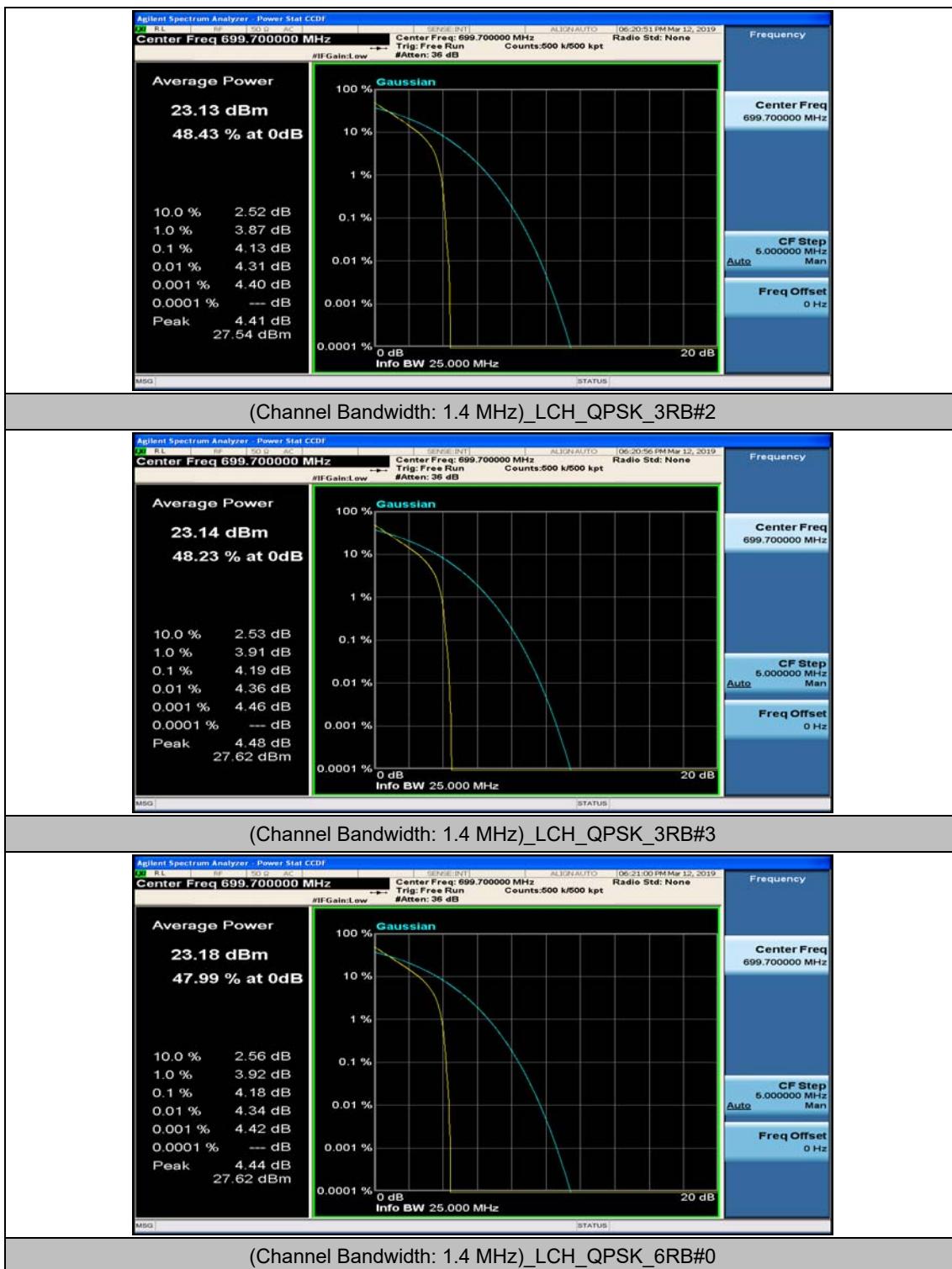
Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	LCH	1	0	4.28	<13	PASS
		1	24	4.02	<13	PASS
		1	49	3.6	<13	PASS
		25	0	5.12	<13	PASS
		25	12	4.83	<13	PASS
		25	25	4.35	<13	PASS
		50	0	4.91	<13	PASS
	MCH	1	0	4.14	<13	PASS
		1	24	3.22	<13	PASS
		1	49	4.58	<13	PASS
		25	0	4.77	<13	PASS
		25	12	4.47	<13	PASS
		25	25	4.96	<13	PASS
		50	0	5.06	<13	PASS

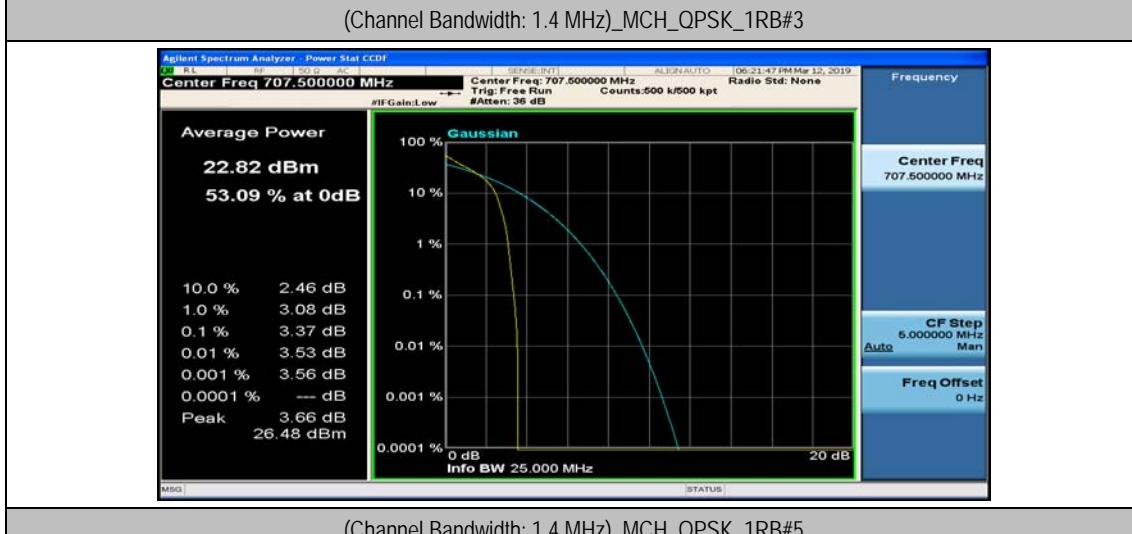
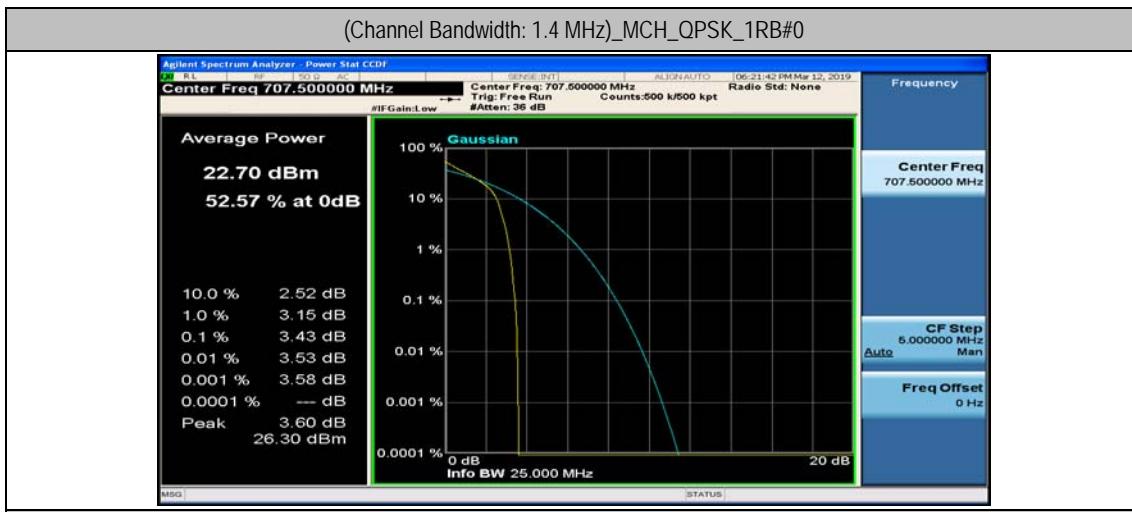
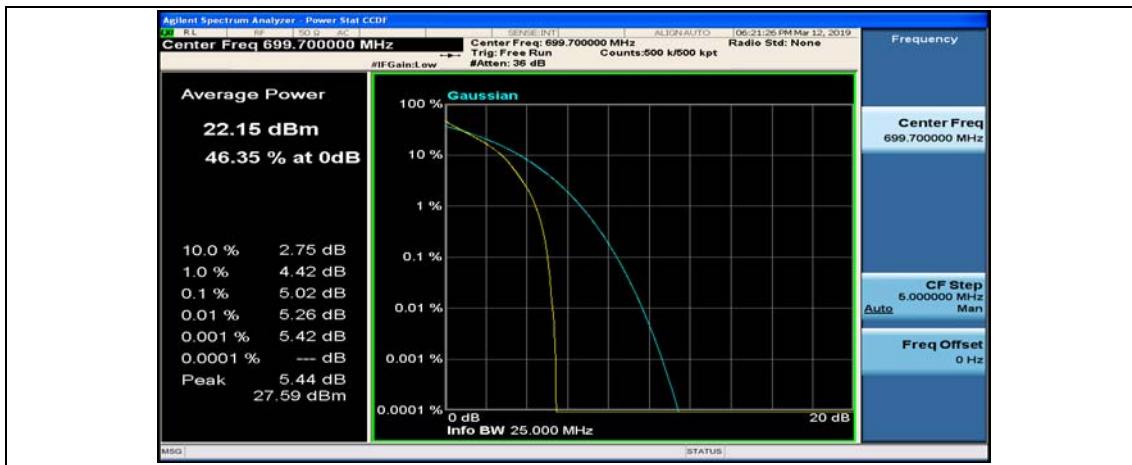
		1	0	3.34	<13	PASS
		1	24	4.31	<13	PASS
		1	49	3.24	<13	PASS
	HCH	25	0	4.43	<13	PASS
		25	12	5.02	<13	PASS
		25	25	5.1	<13	PASS
		50	0	4.82	<13	PASS
16QAM	LCH	1	0	4.97	<13	PASS
		1	24	4.9	<13	PASS
		1	49	4.34	<13	PASS
		25	0	6.13	<13	PASS
		25	12	5.8	<13	PASS
		25	25	5.25	<13	PASS
		50	0	5.76	<13	PASS
	MCH	1	0	4.97	<13	PASS
		1	24	4.23	<13	PASS
		1	49	5.4	<13	PASS
		25	0	5.72	<13	PASS
		25	12	5.35	<13	PASS
		25	25	5.86	<13	PASS
		50	0	5.93	<13	PASS
	HCH	1	0	4.29	<13	PASS
		1	24	5.23	<13	PASS
		1	49	4.21	<13	PASS
		25	0	5.41	<13	PASS
		25	12	5.97	<13	PASS
		25	25	6.13	<13	PASS
		50	0	5.82	<13	PASS

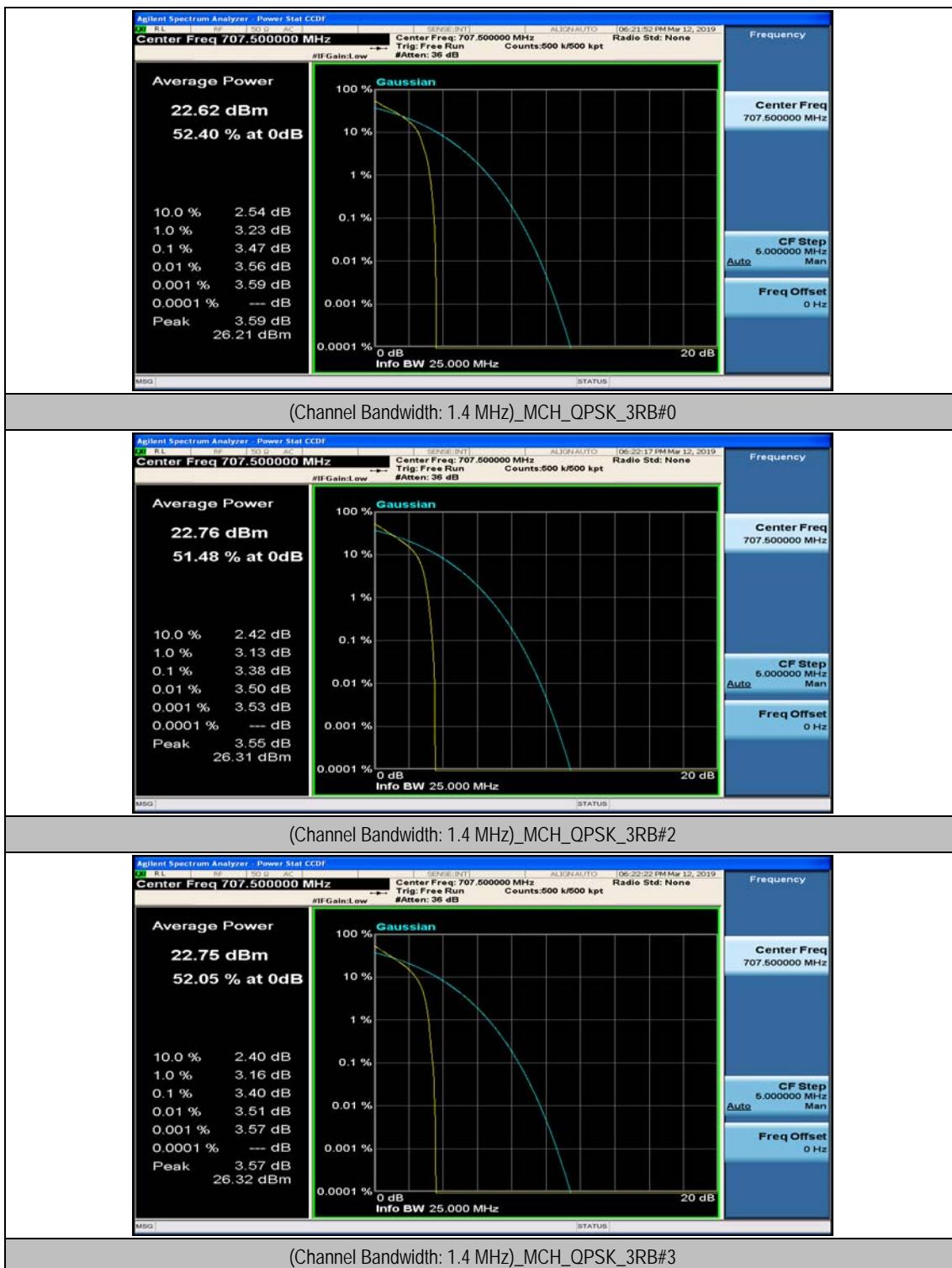
## Test Graphs

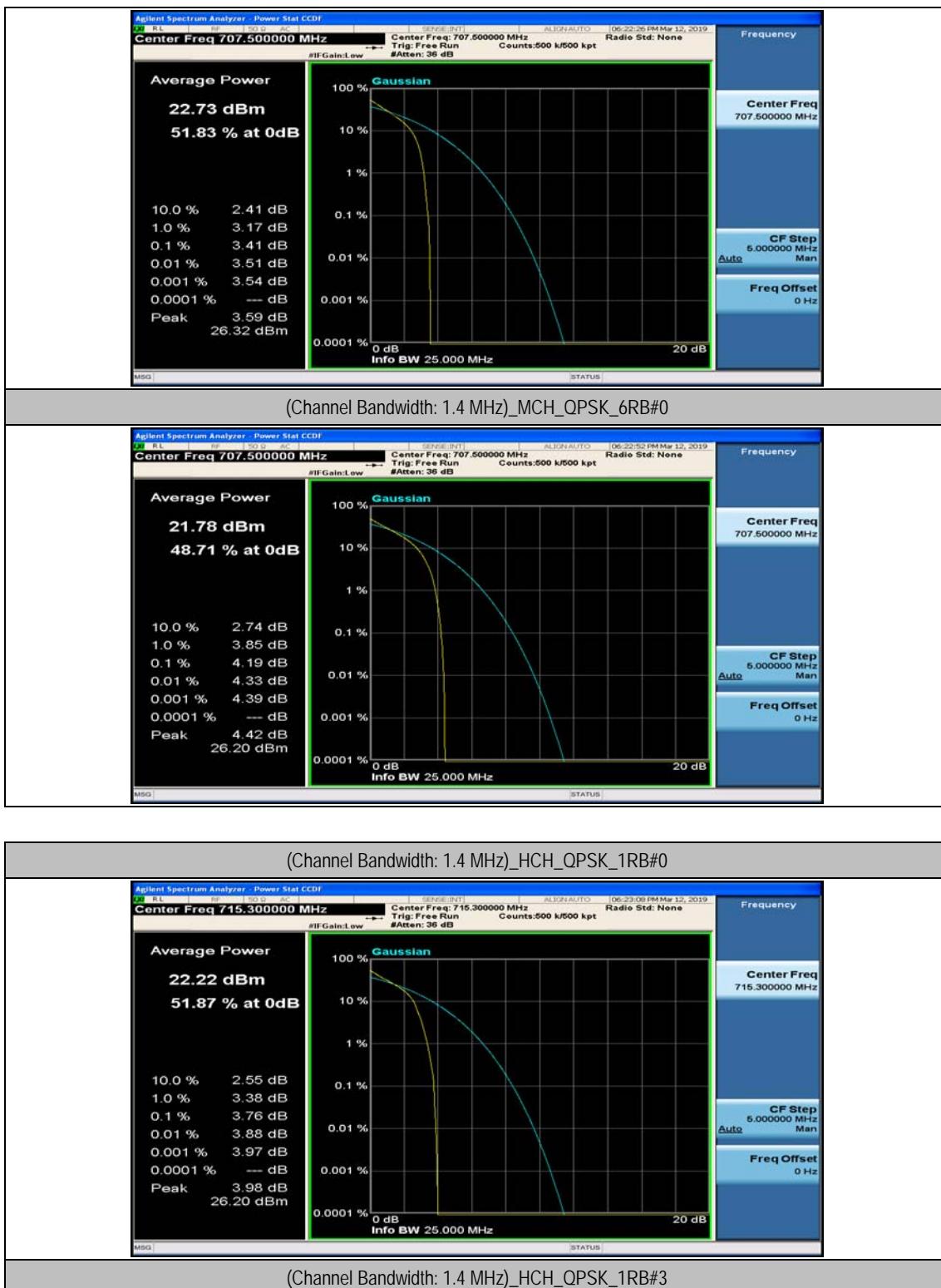
### Channel Bandwidth: 1.4 MHz

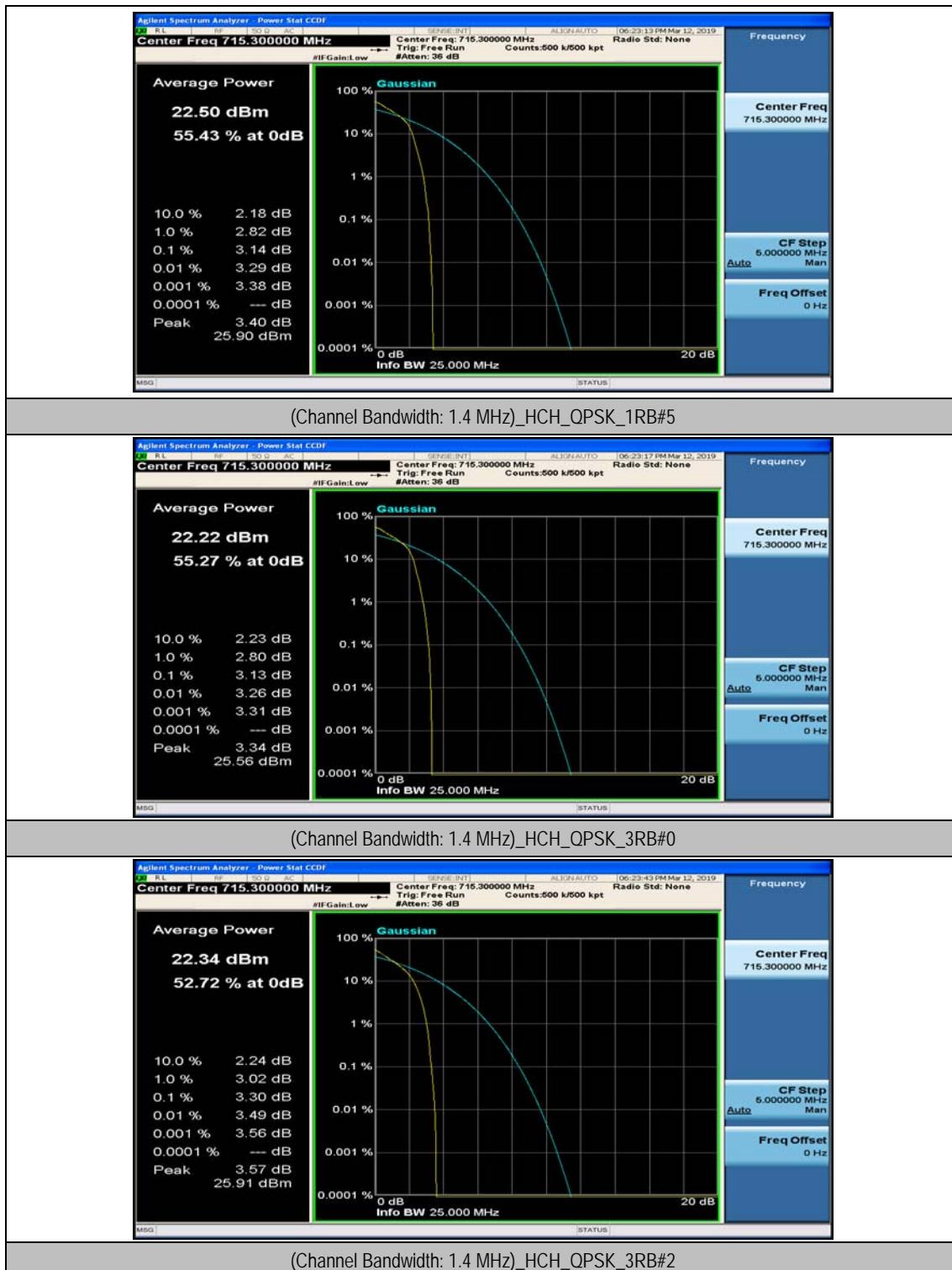


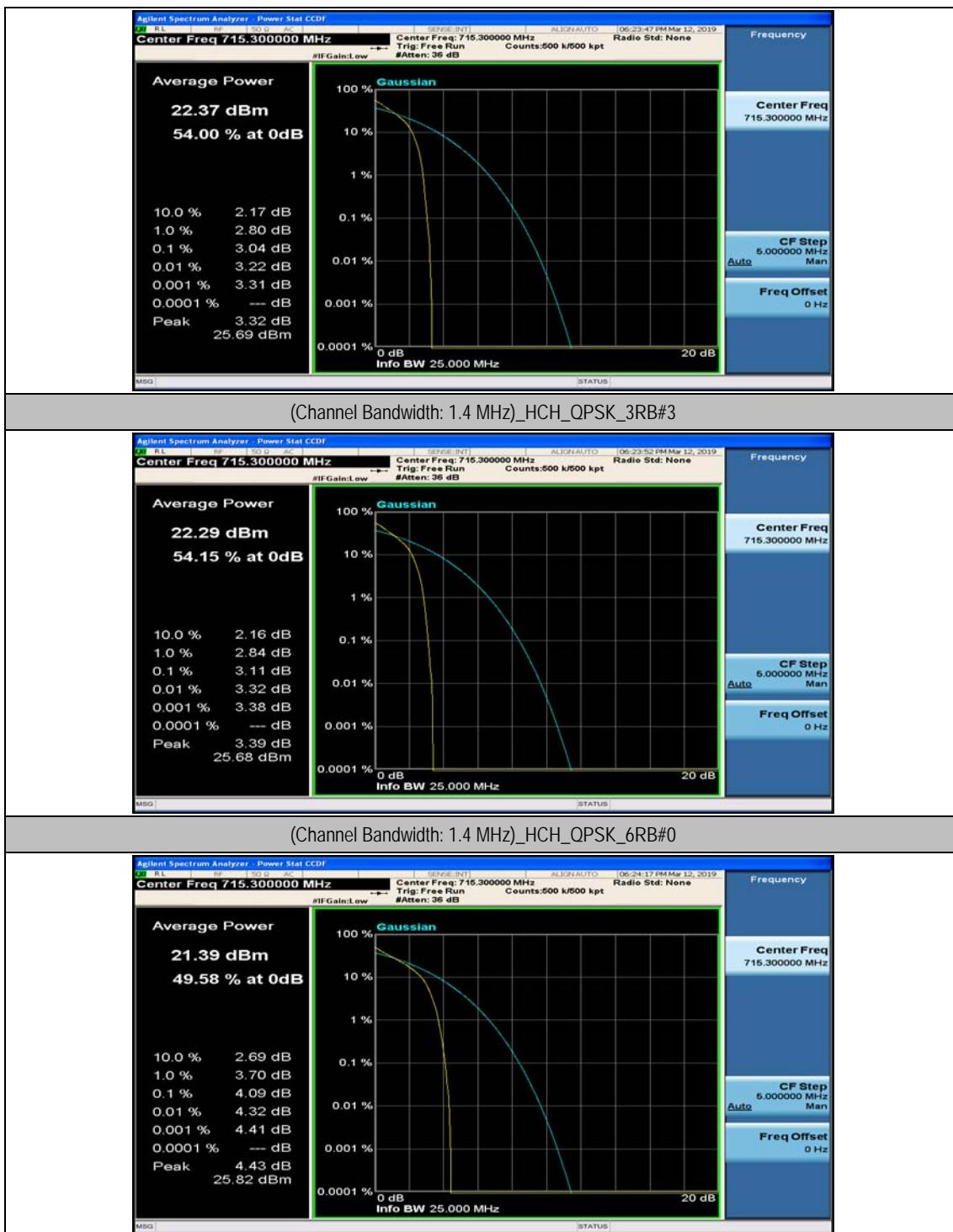


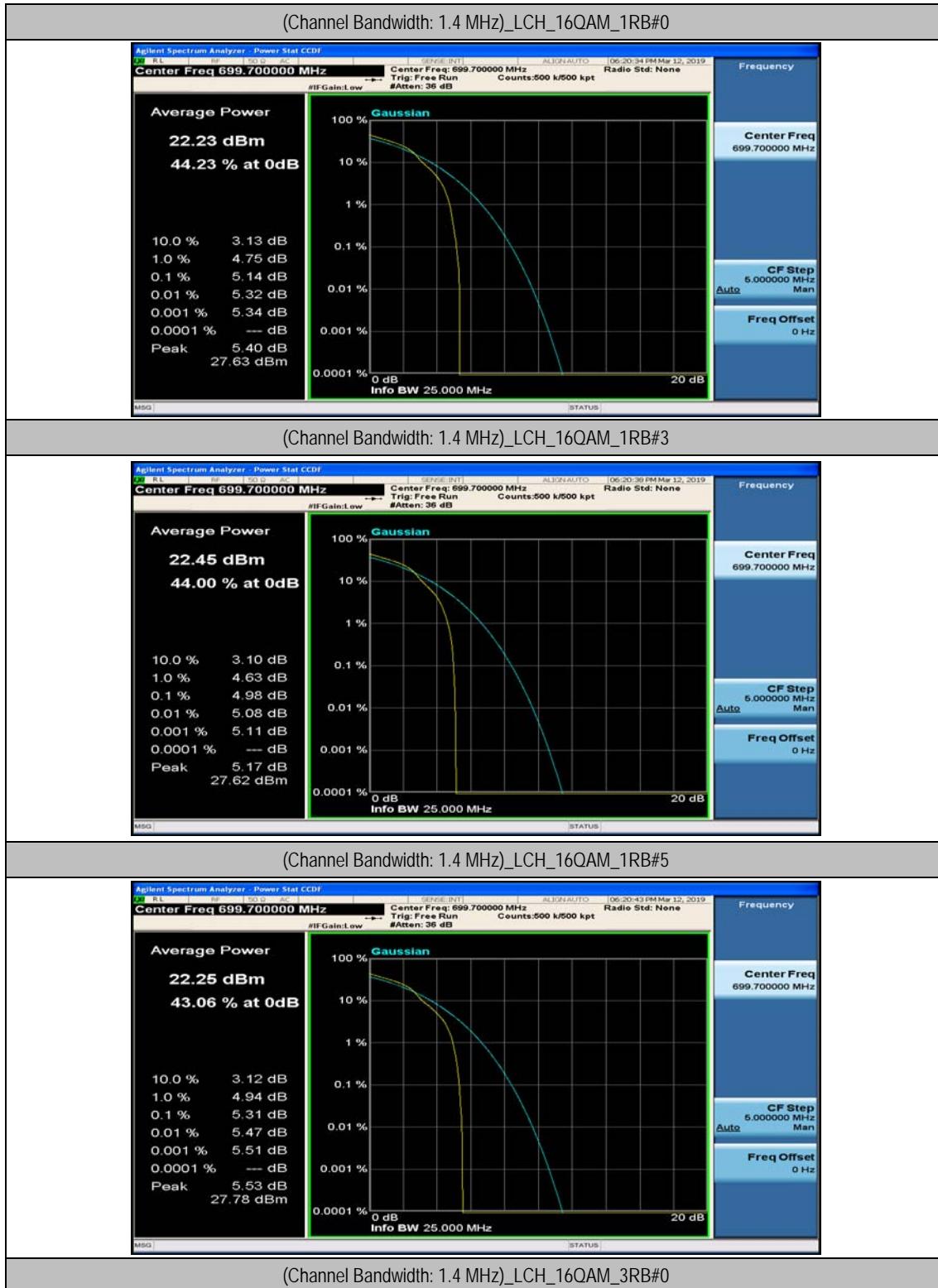


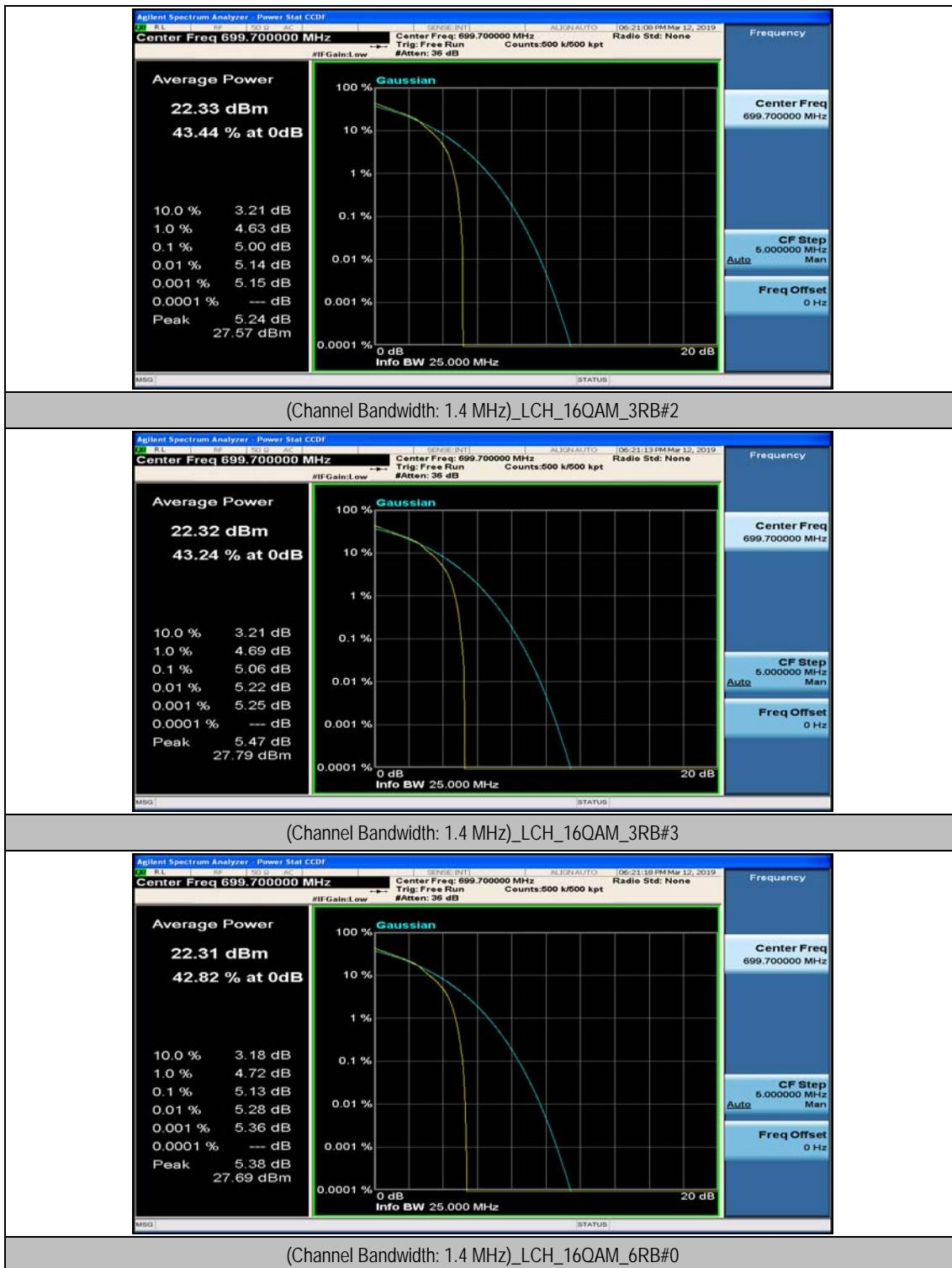


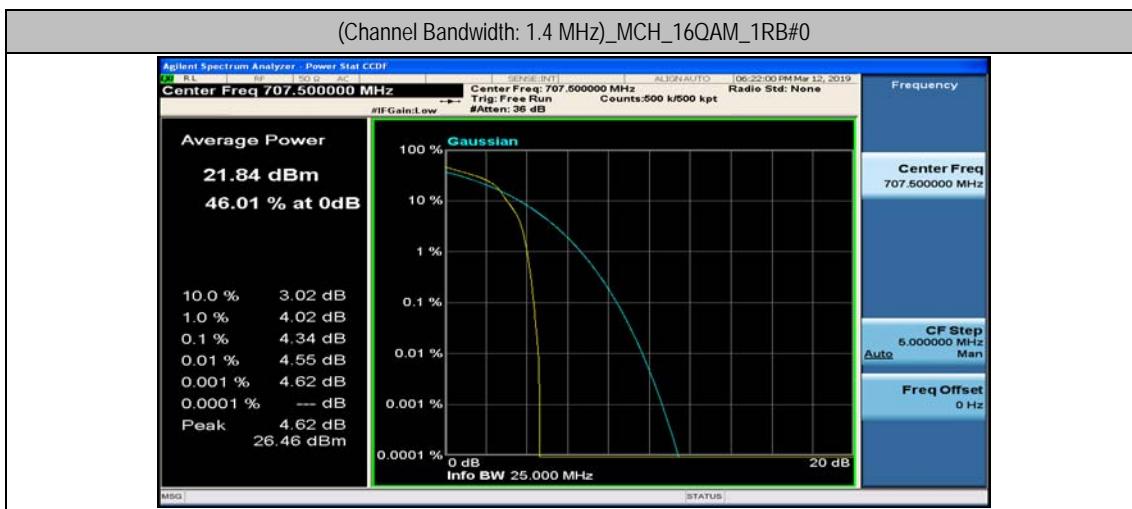




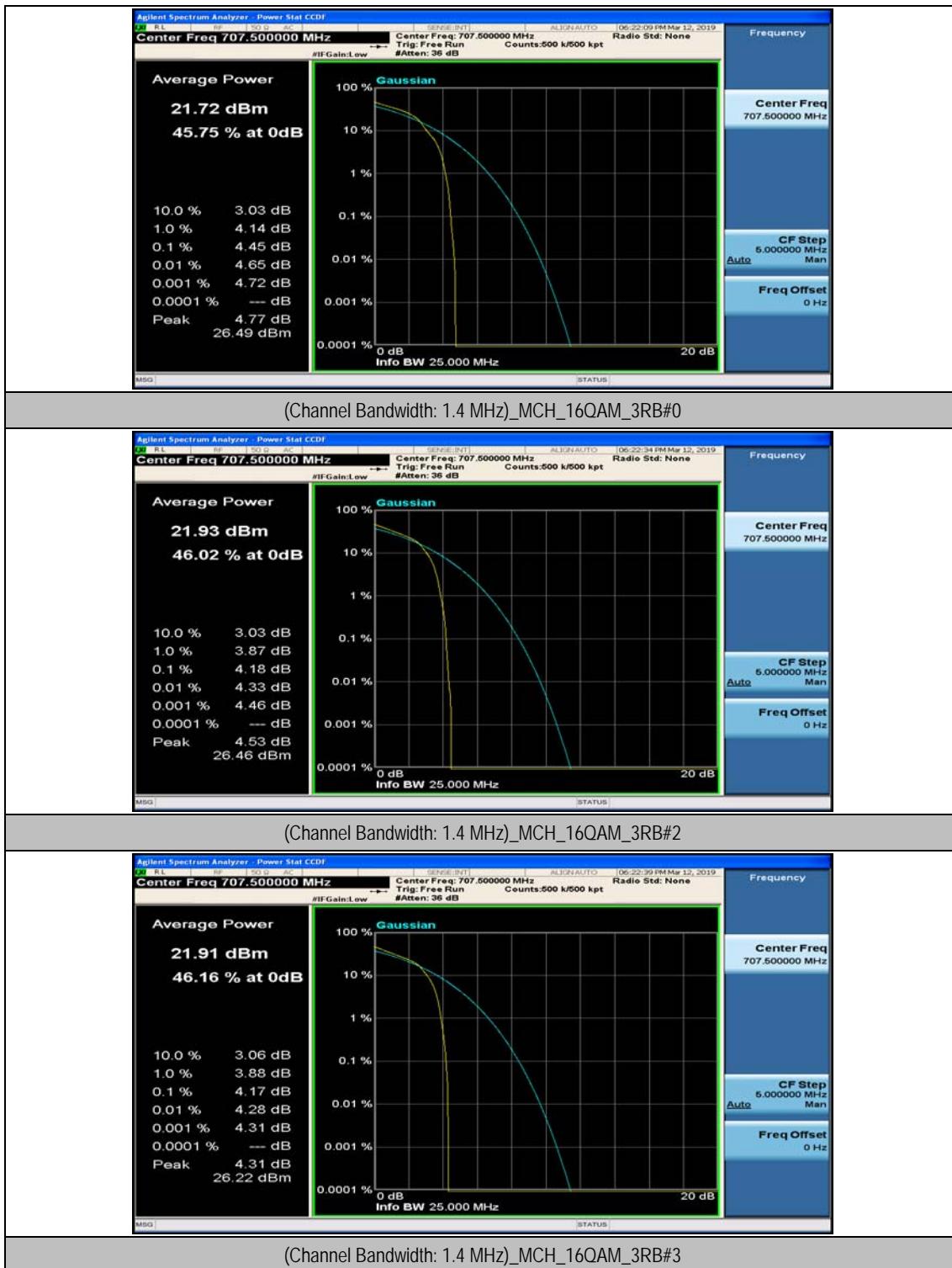


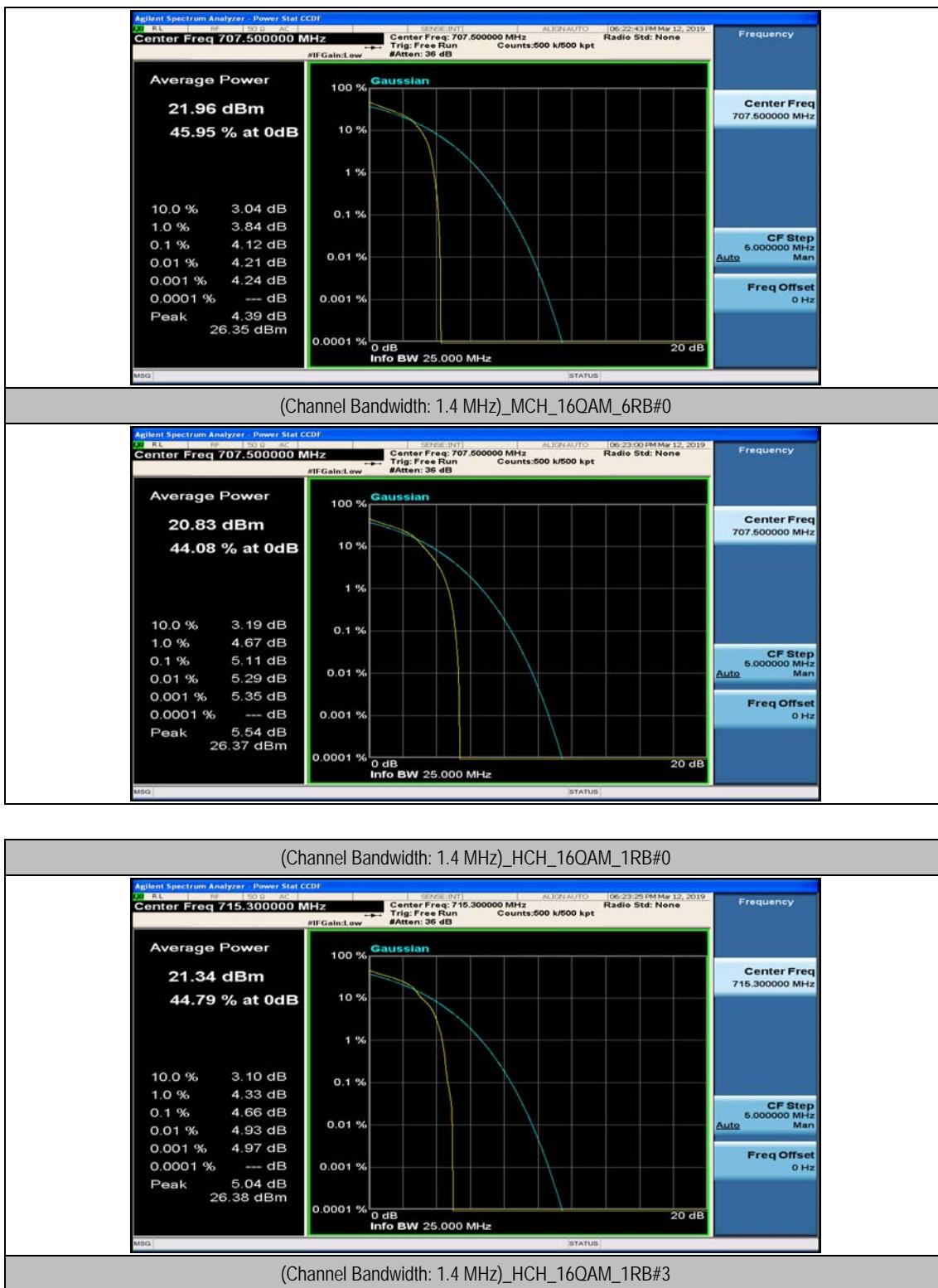


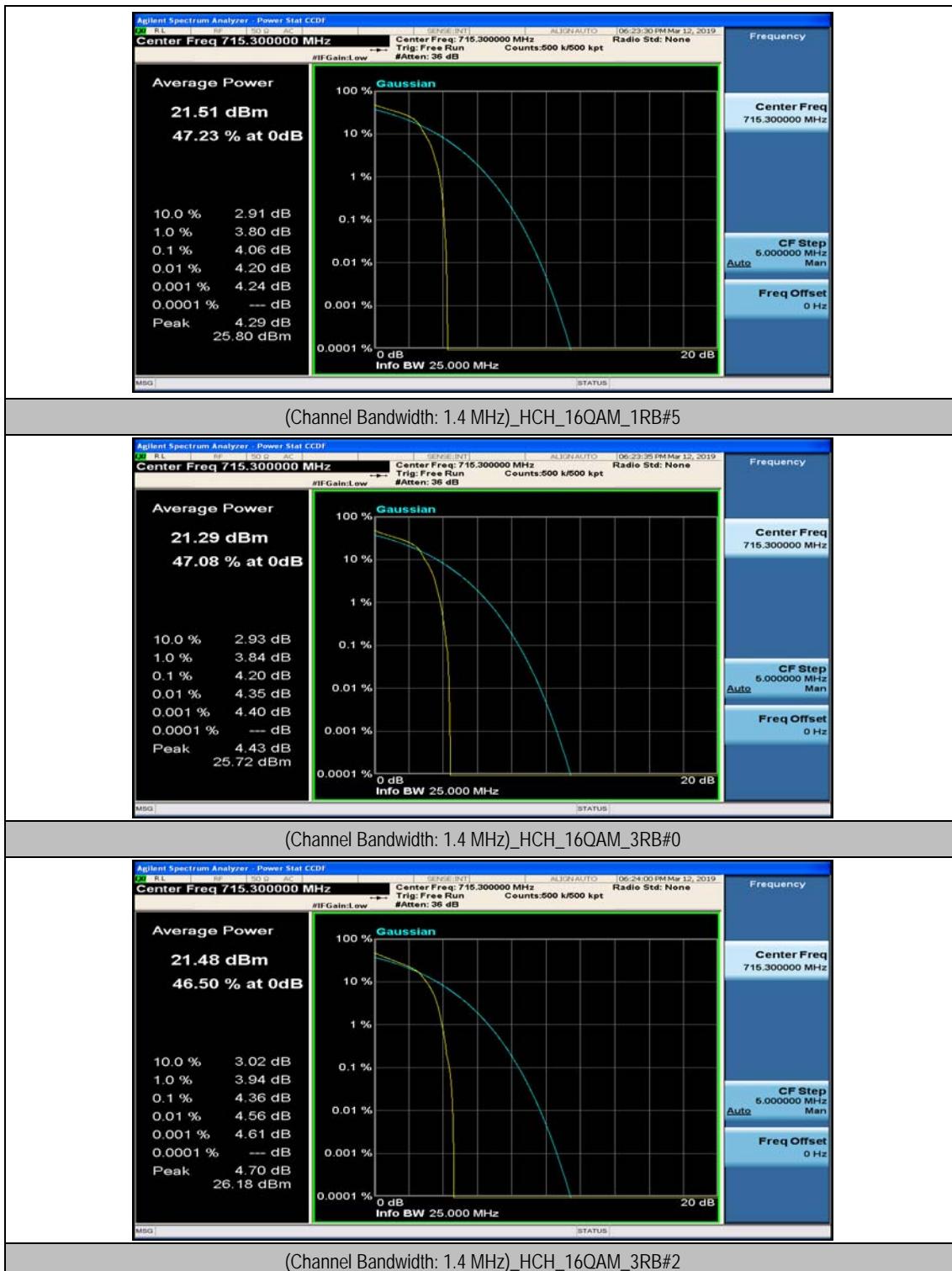


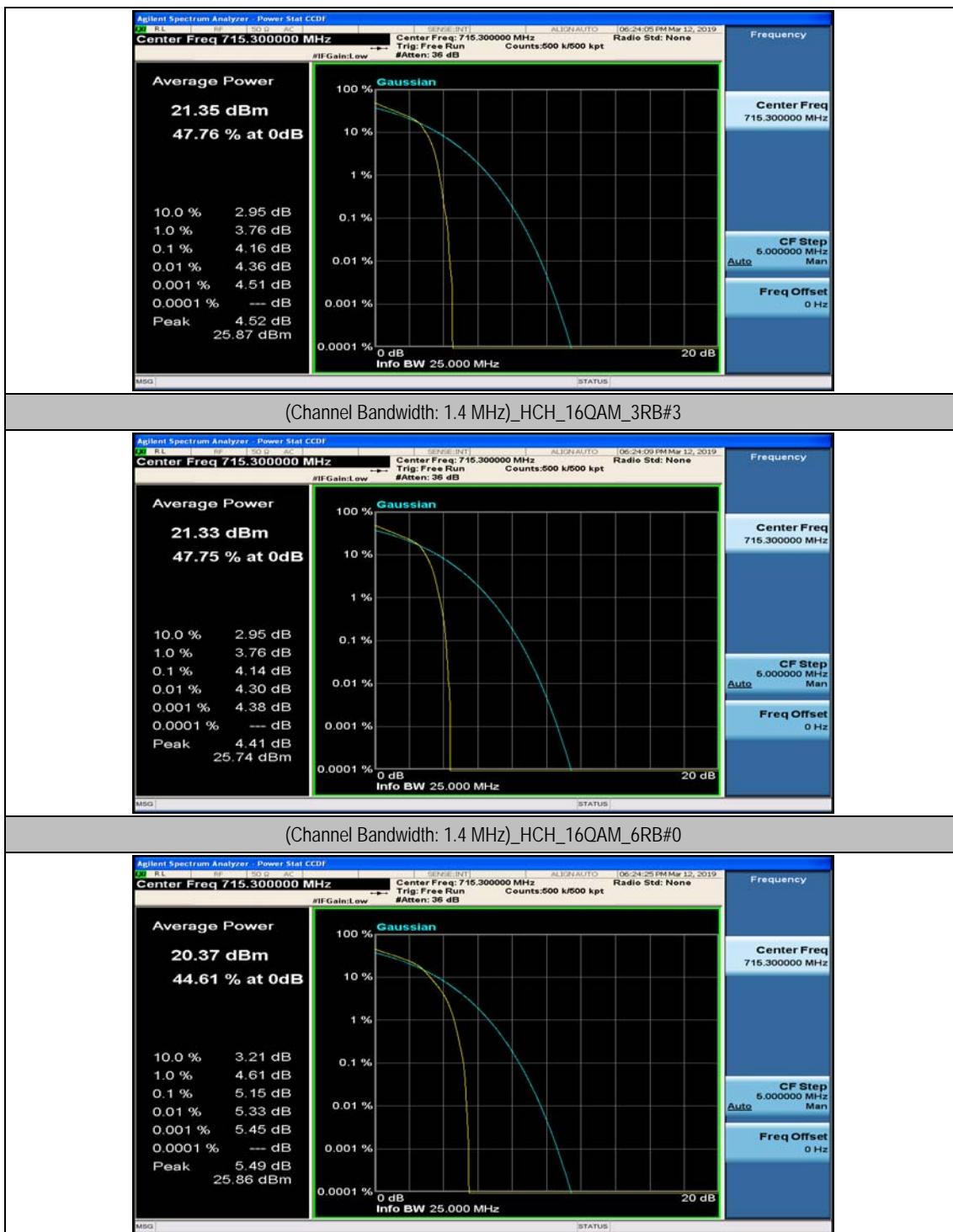


**(Channel Bandwidth: 1.4 MHz)\_MCH\_16QAM\_1RB#5**

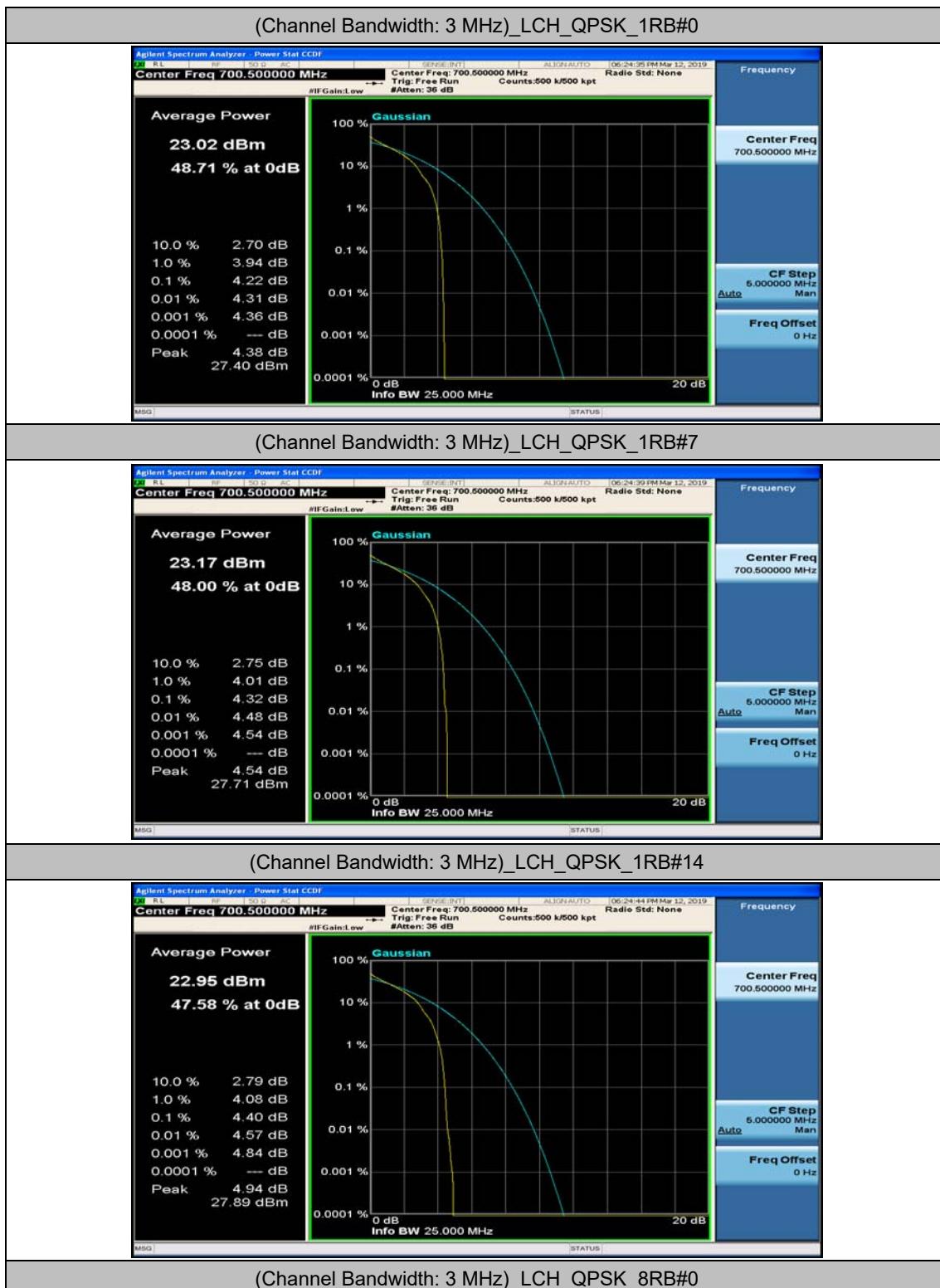


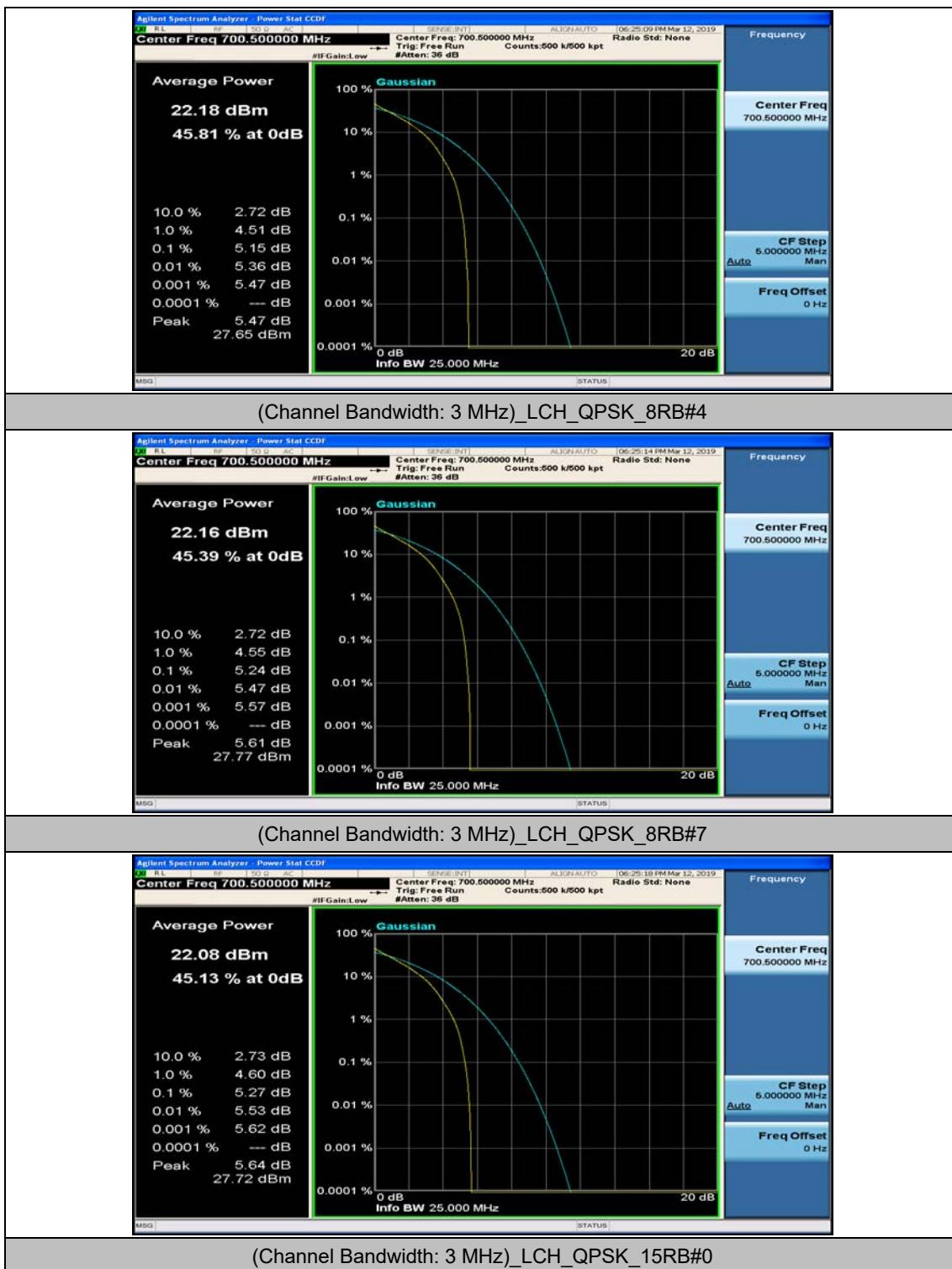


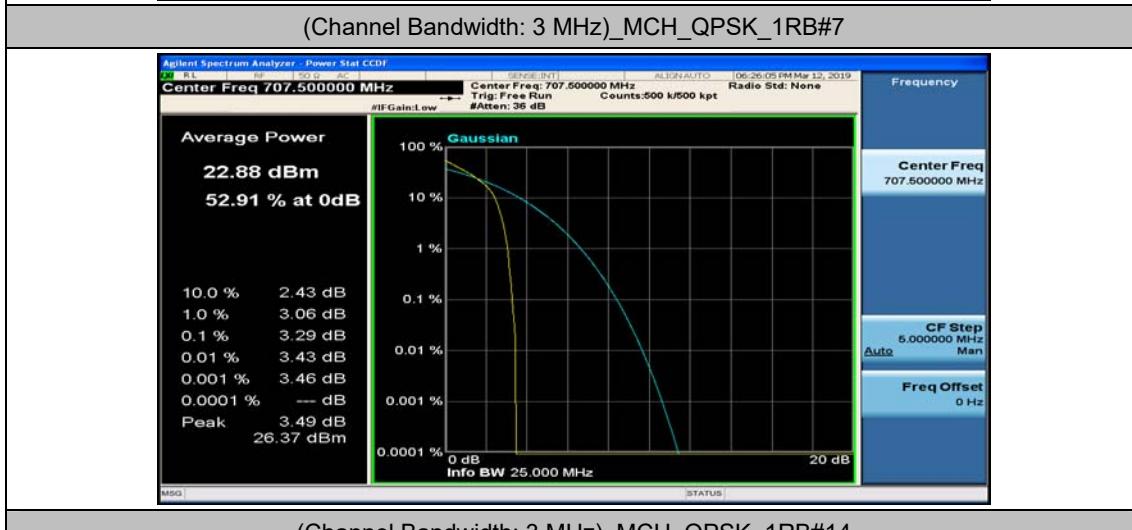
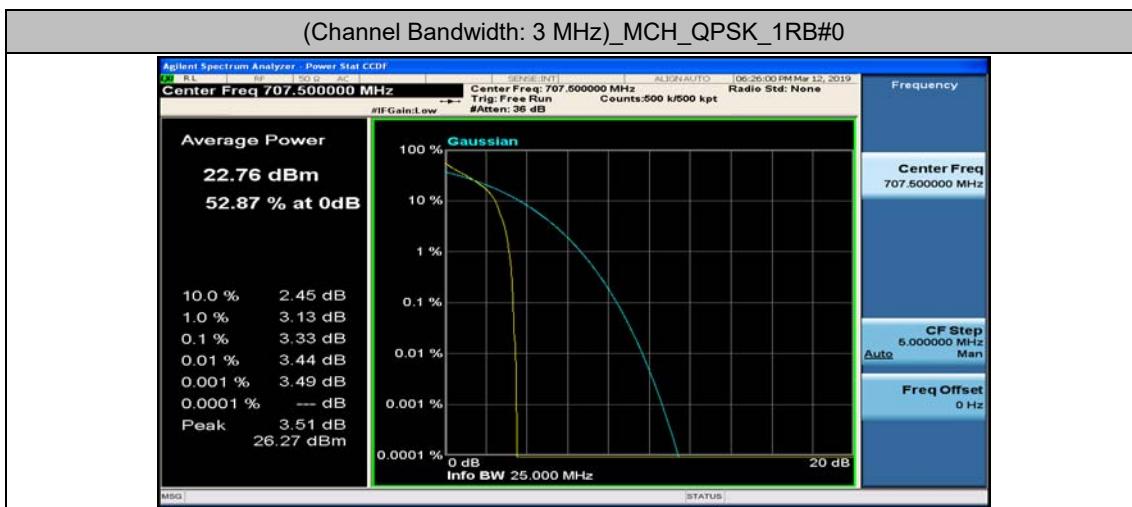




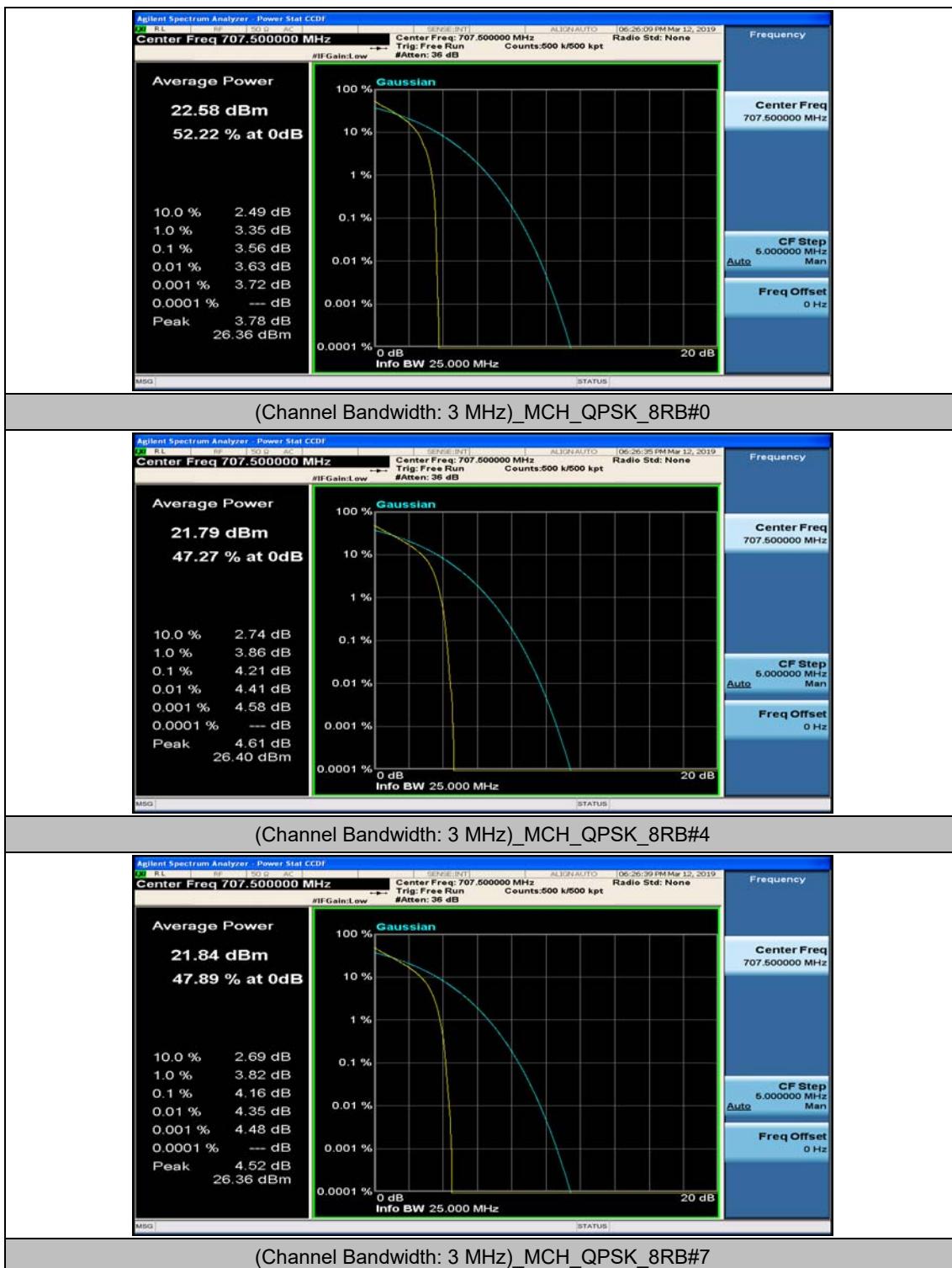
## Channel Bandwidth: 3 MHz

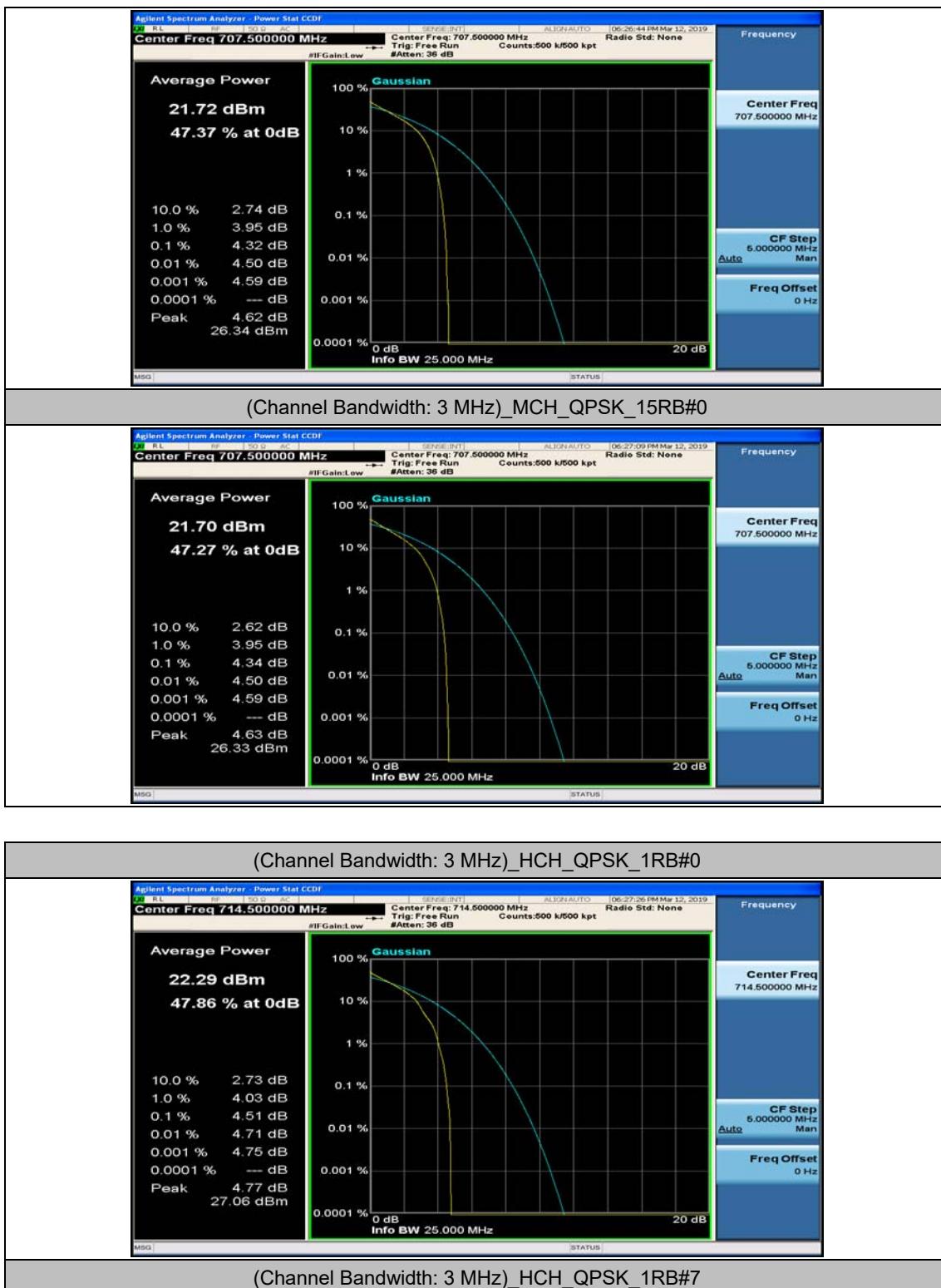


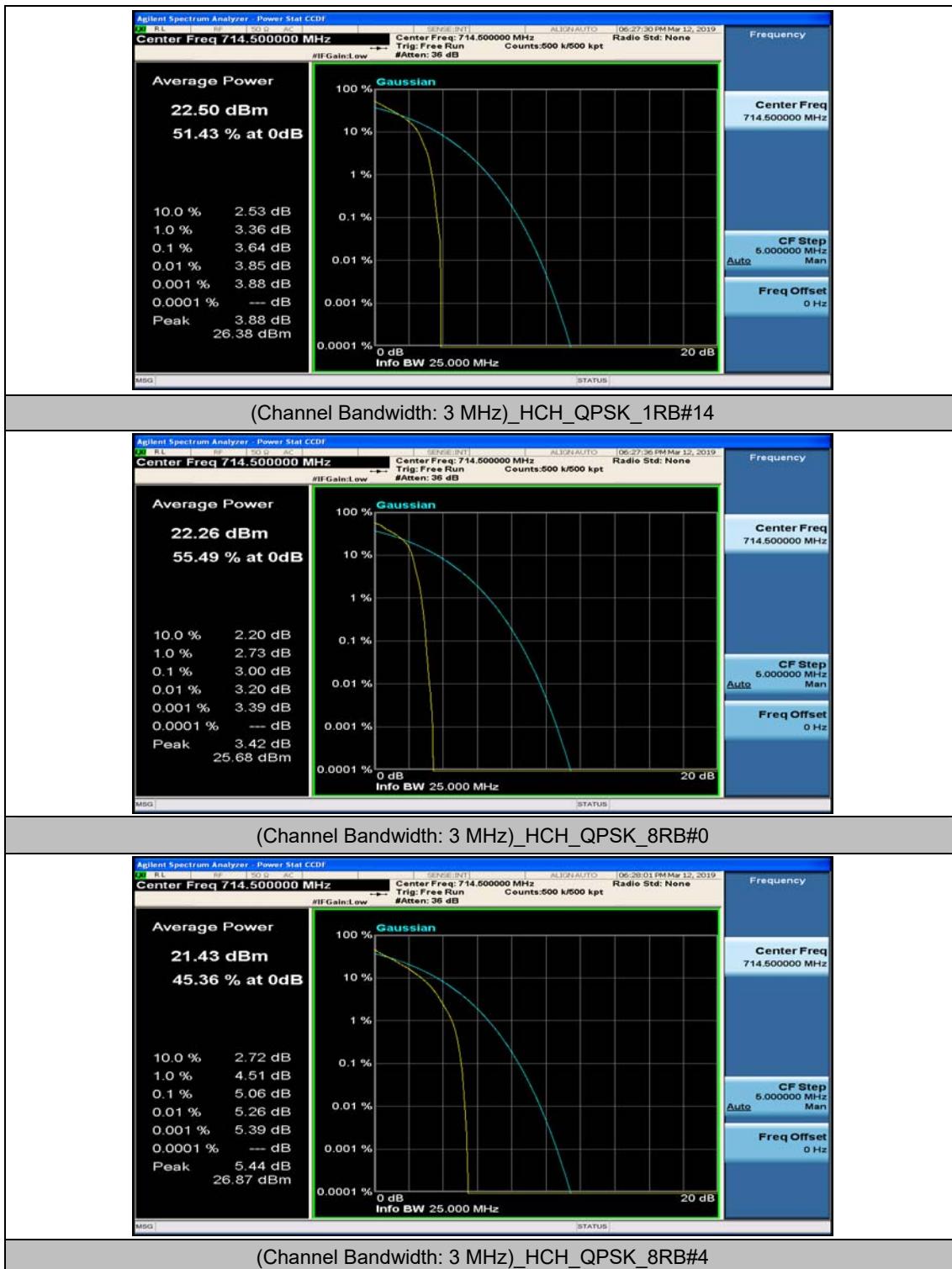


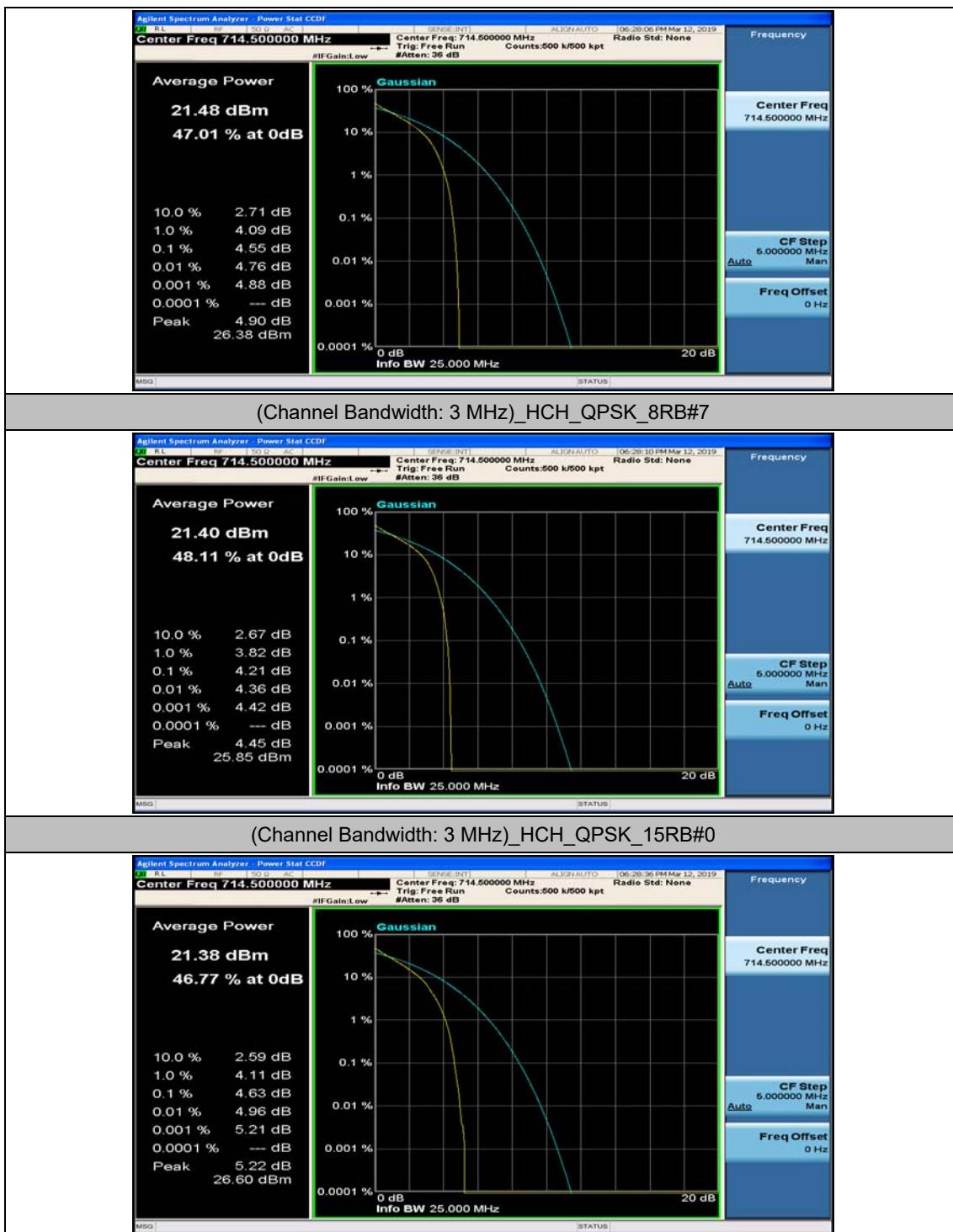


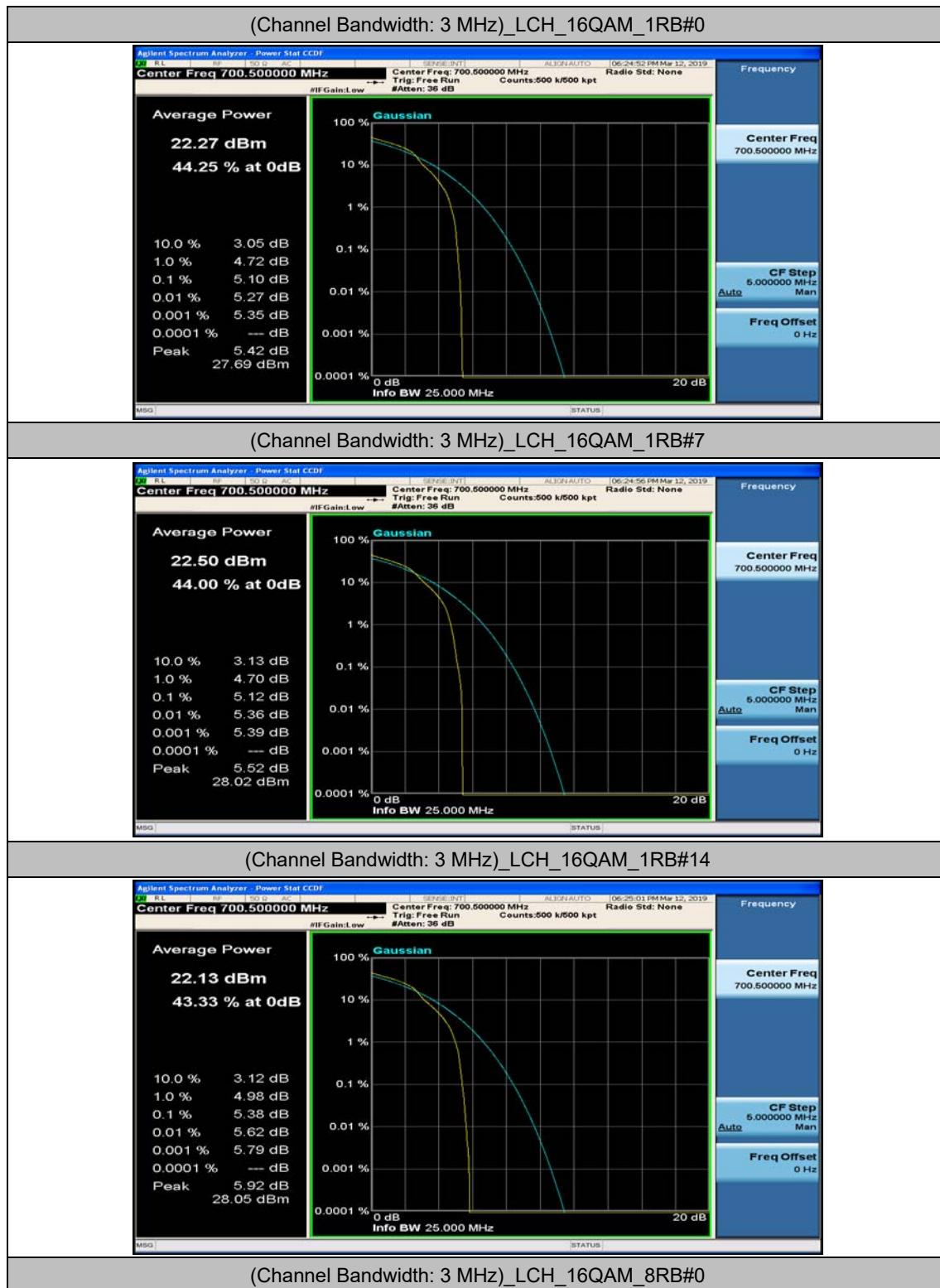
(Channel Bandwidth: 3 MHz)\_MCH\_QPSK\_1RB#14

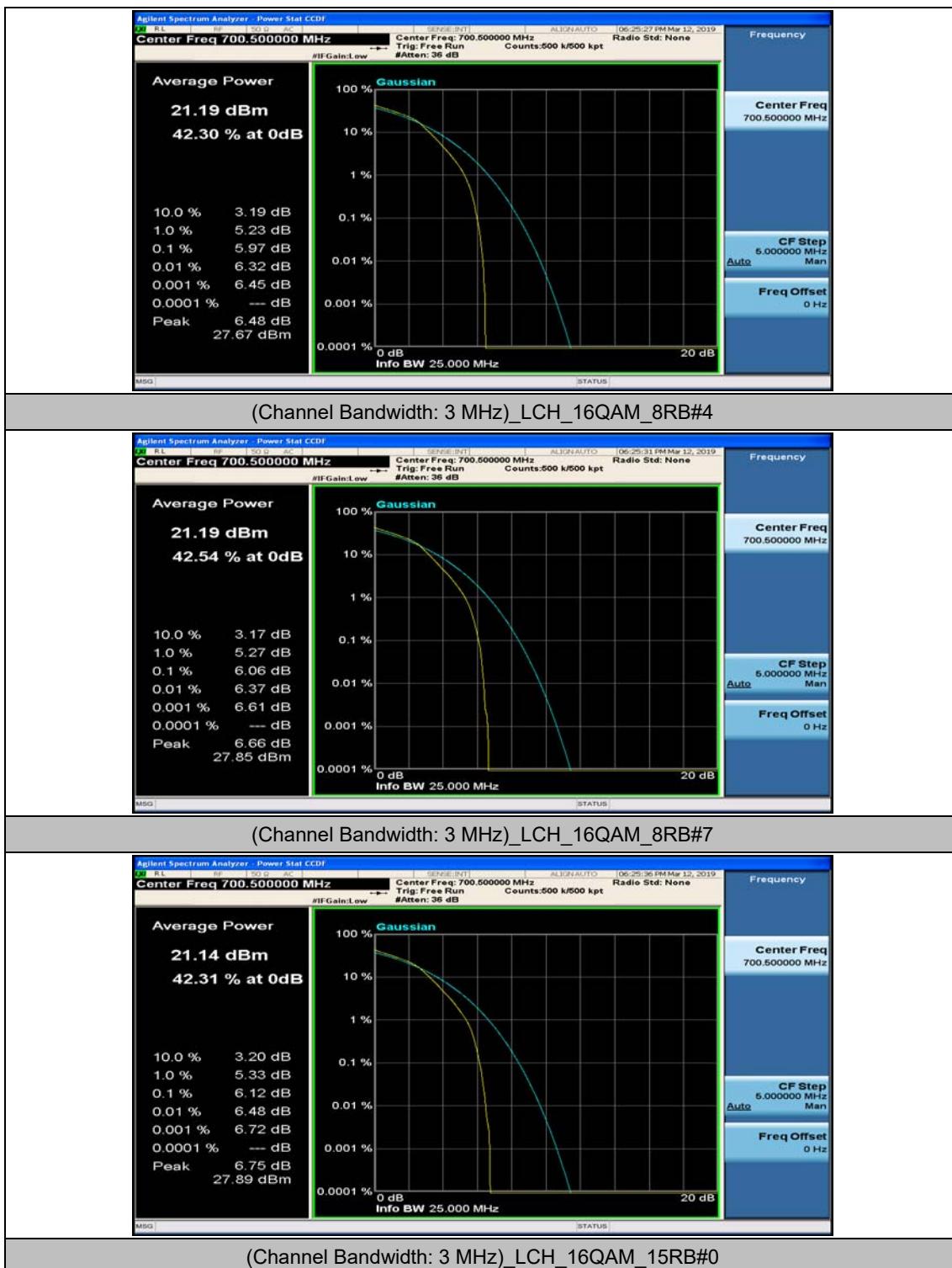


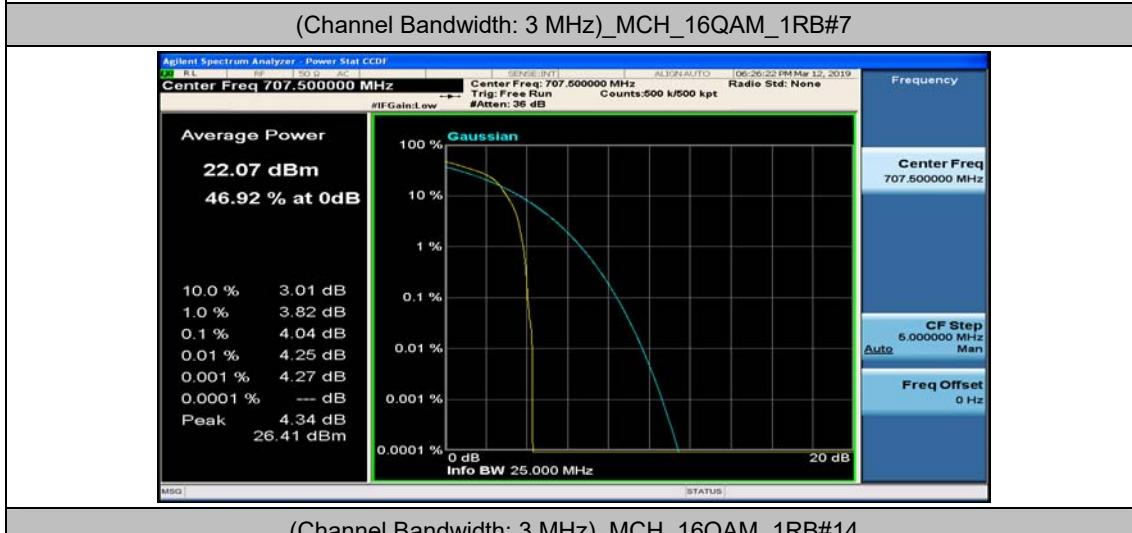
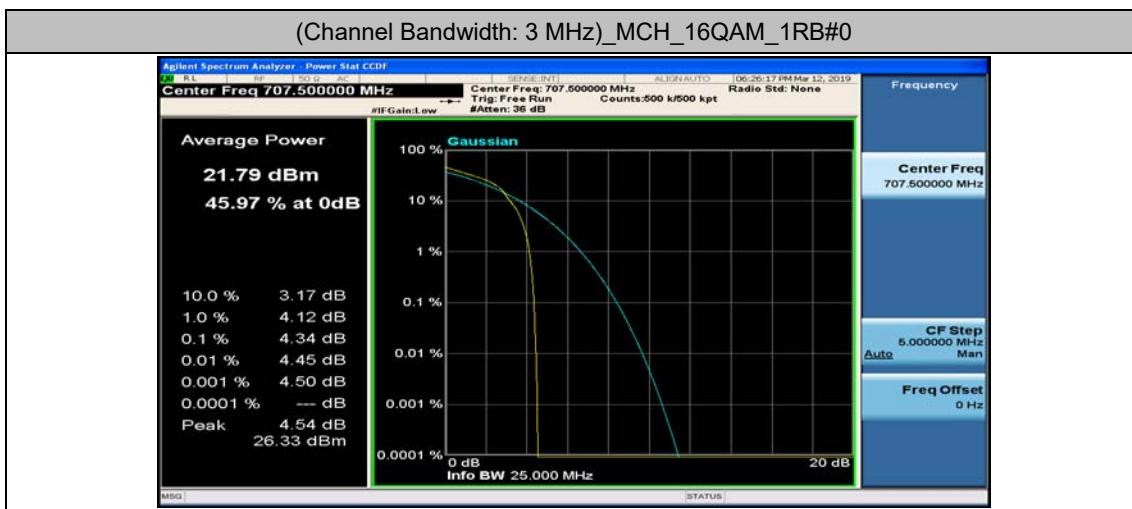




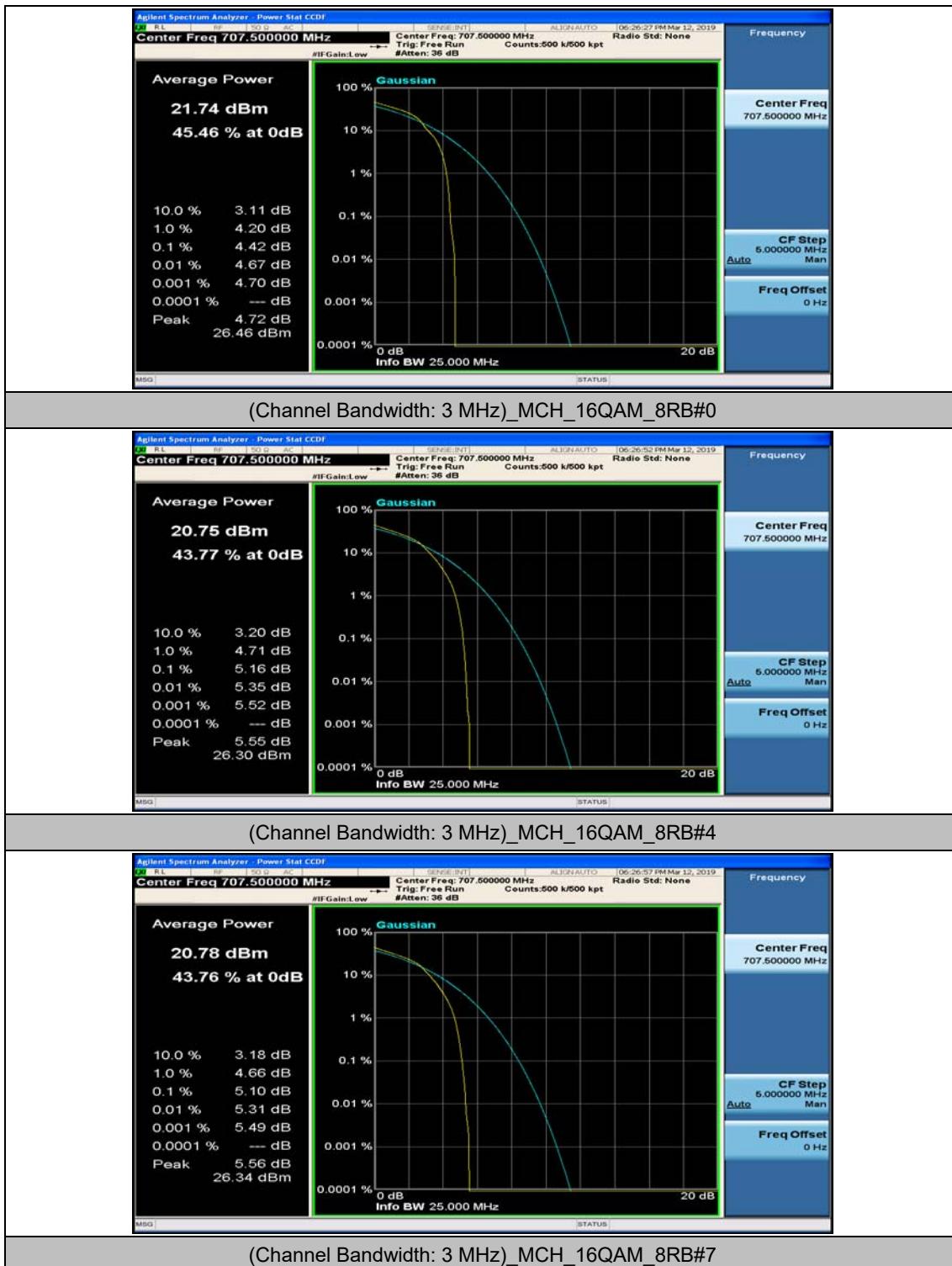


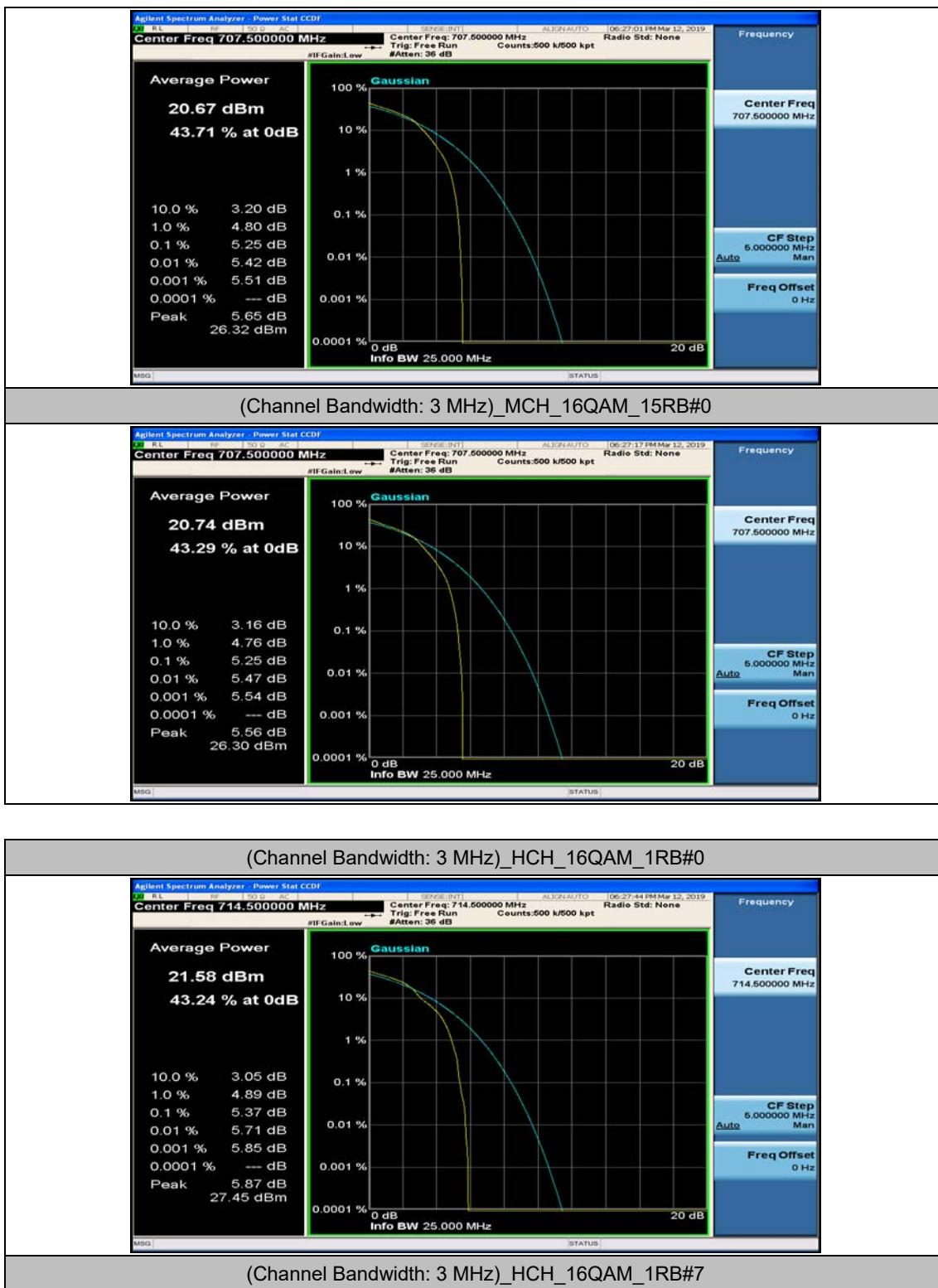


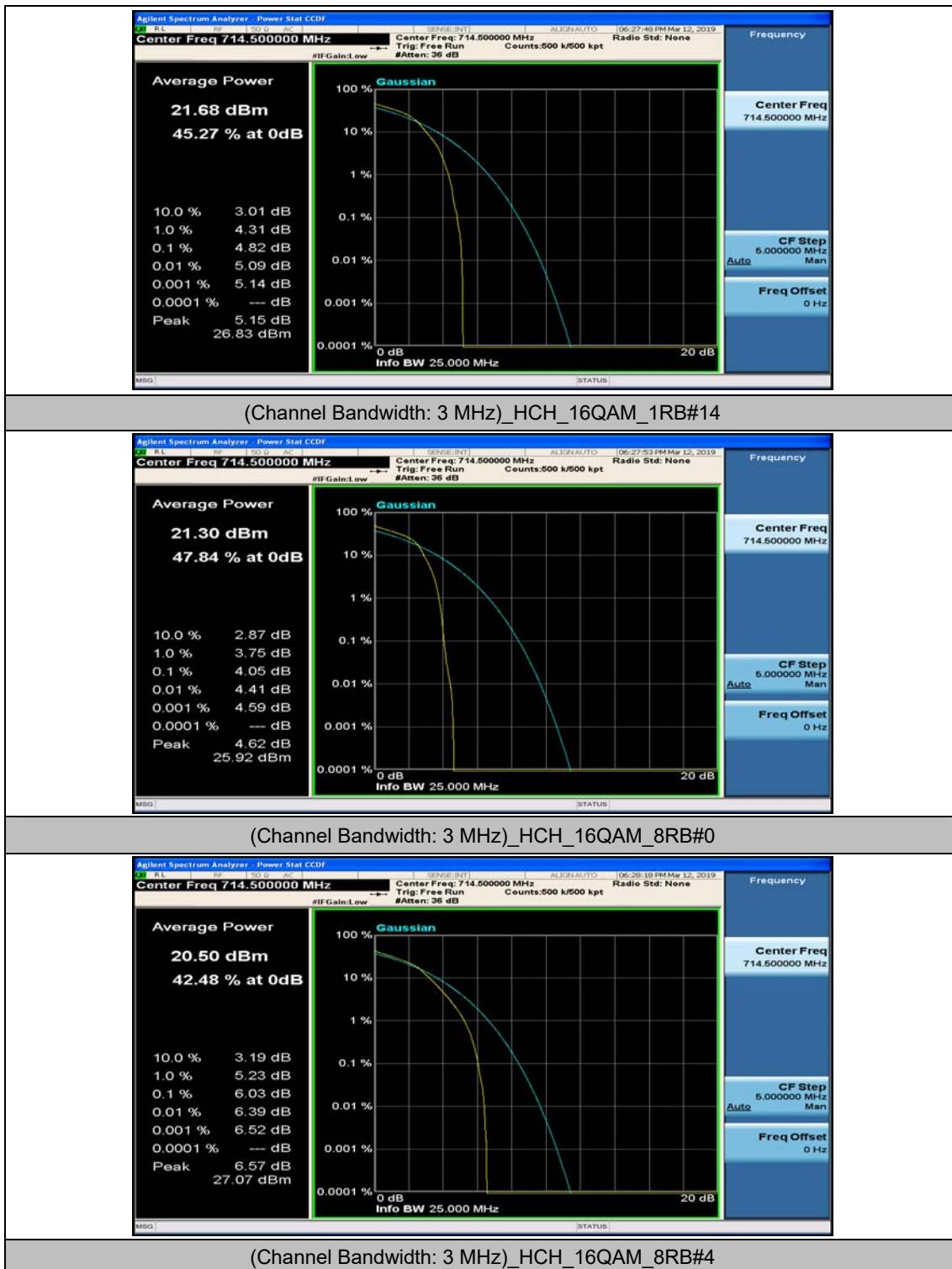


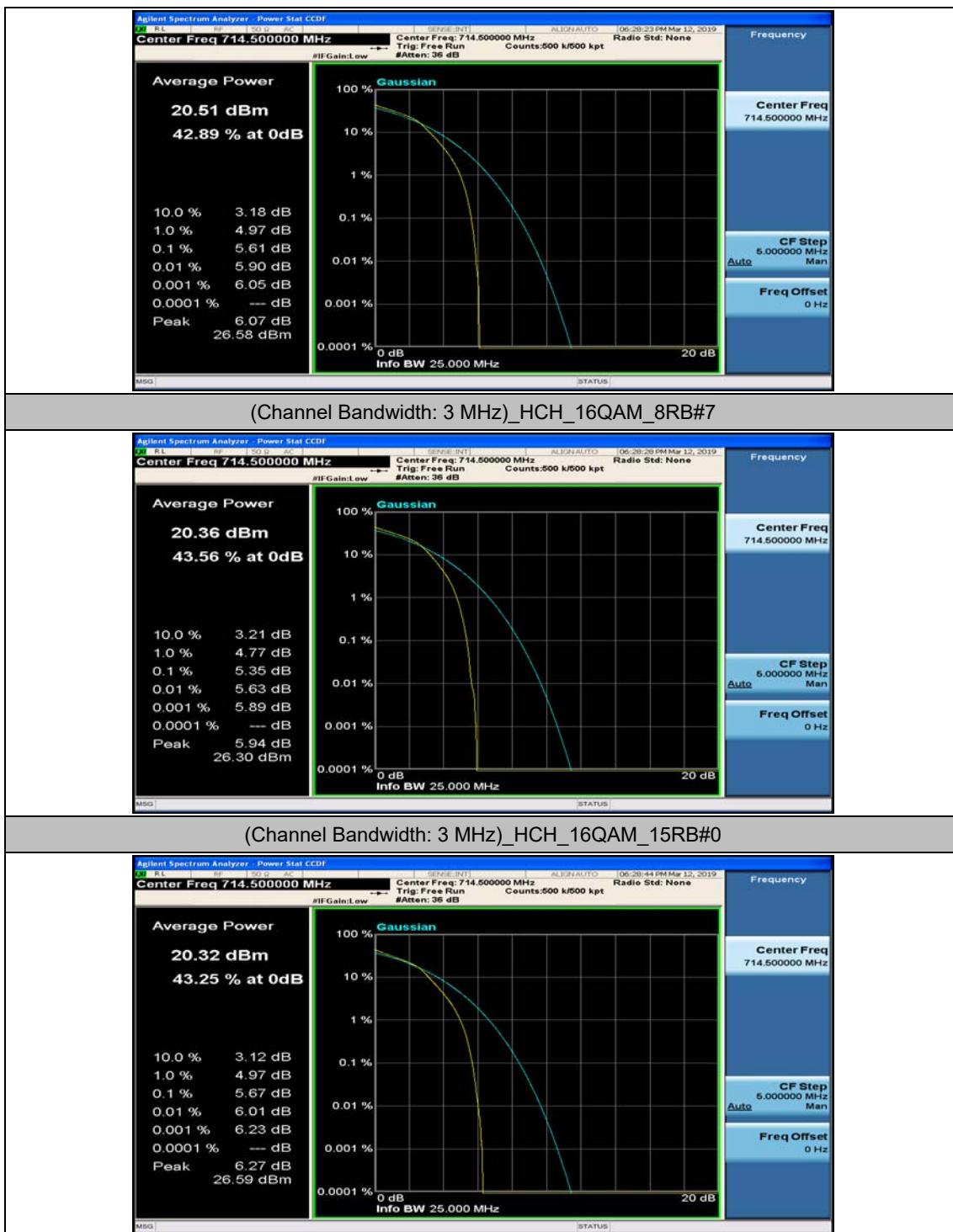


(Channel Bandwidth: 3 MHz)\_MCH\_16QAM\_1RB#14

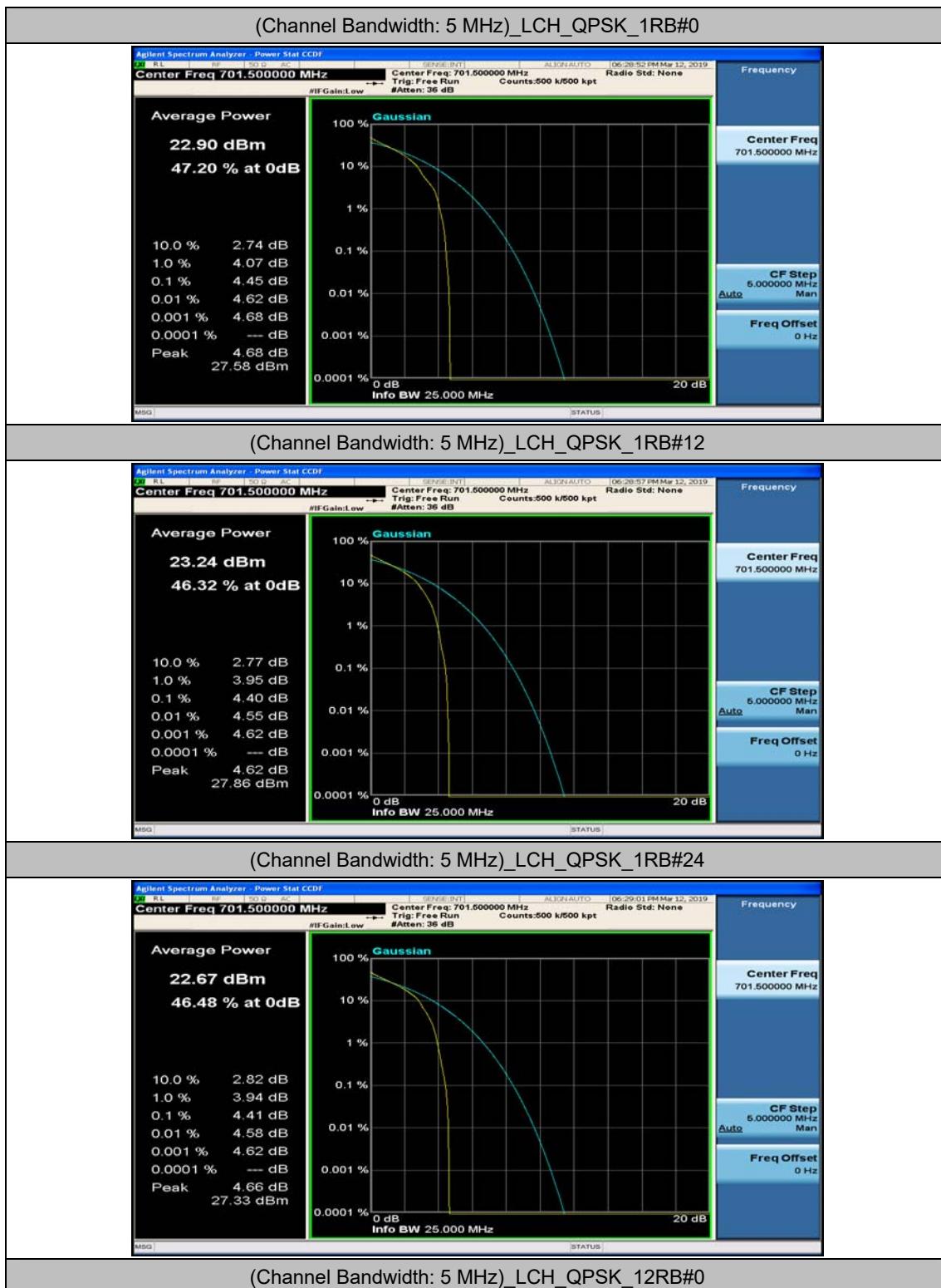


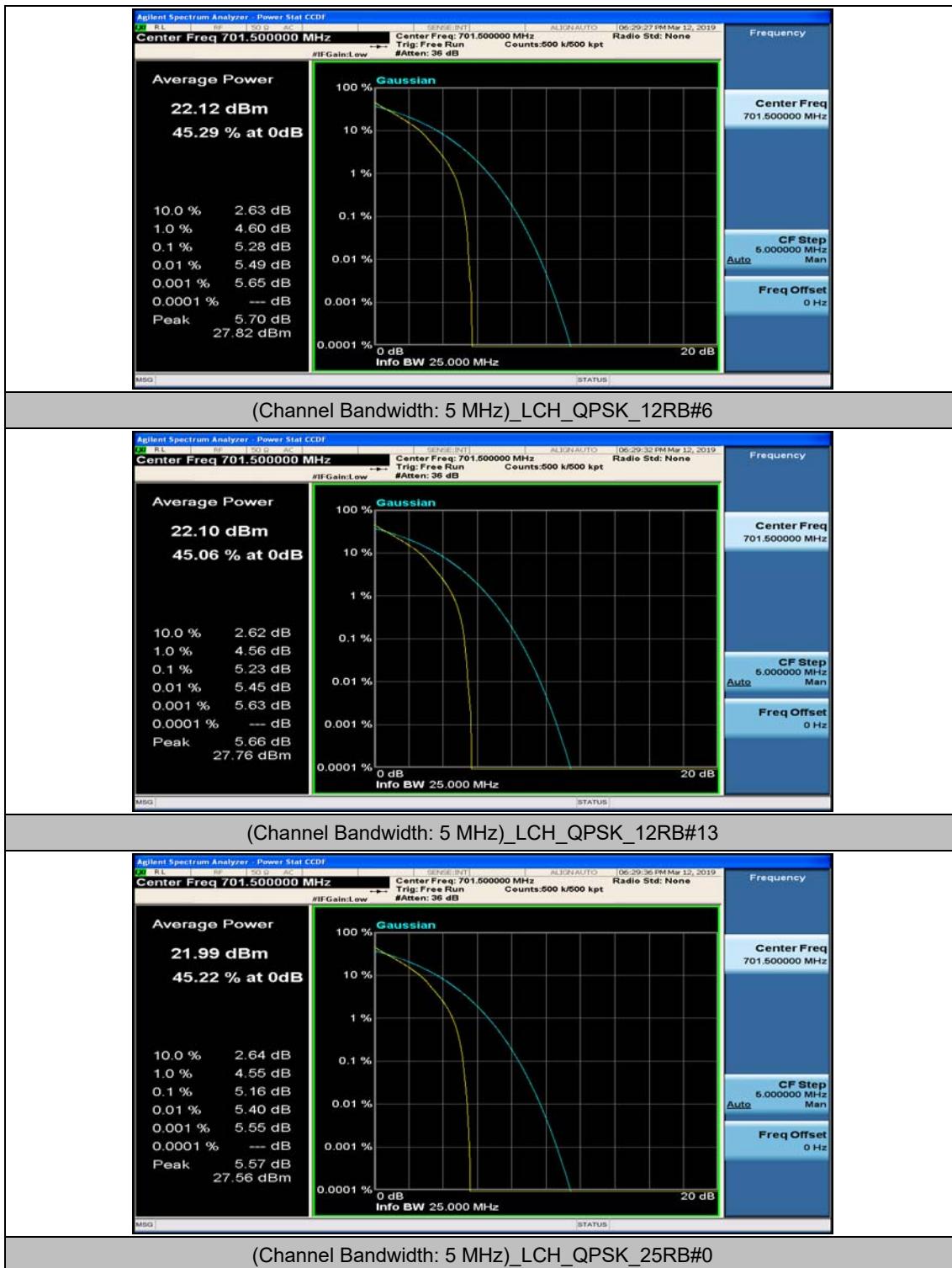


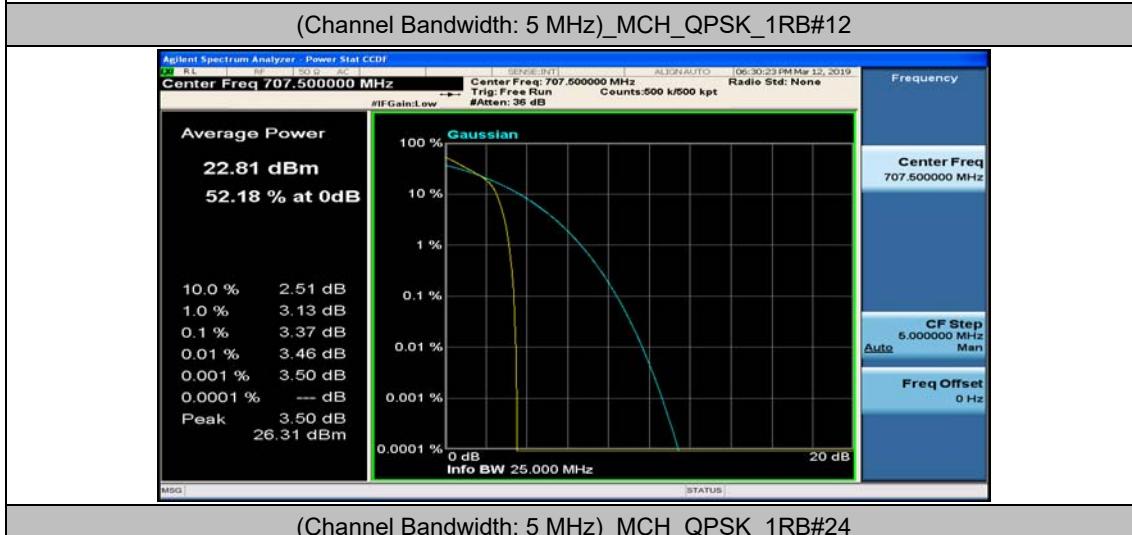
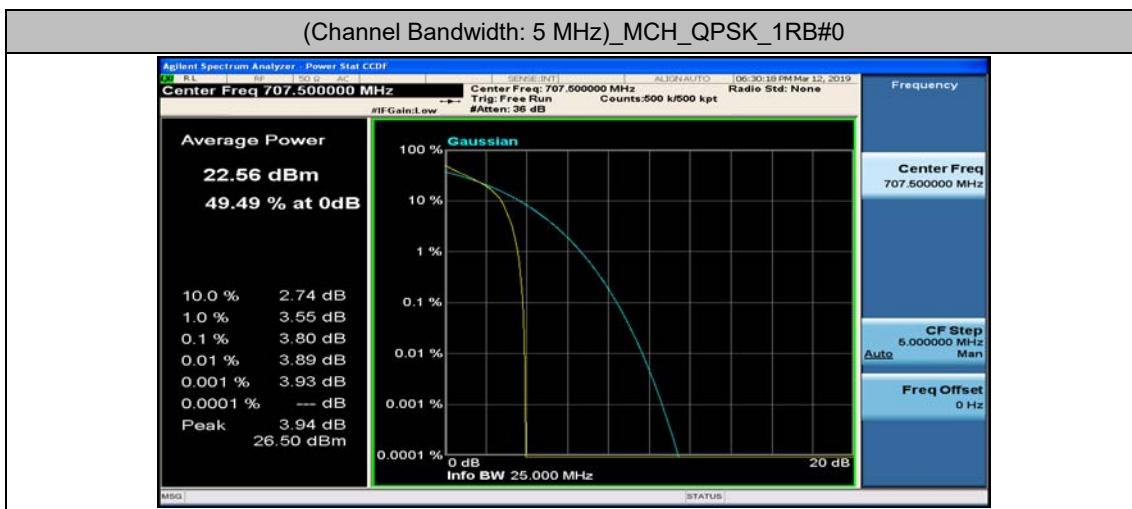
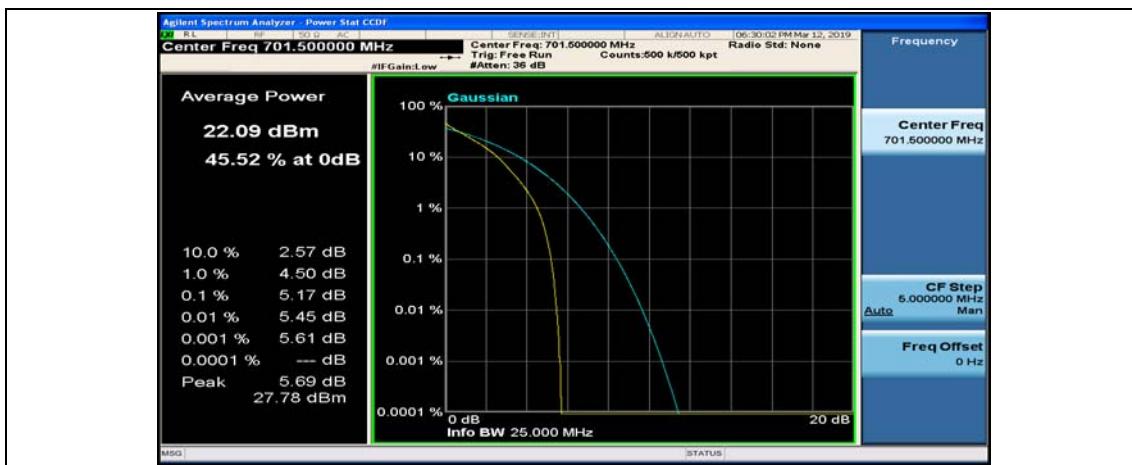




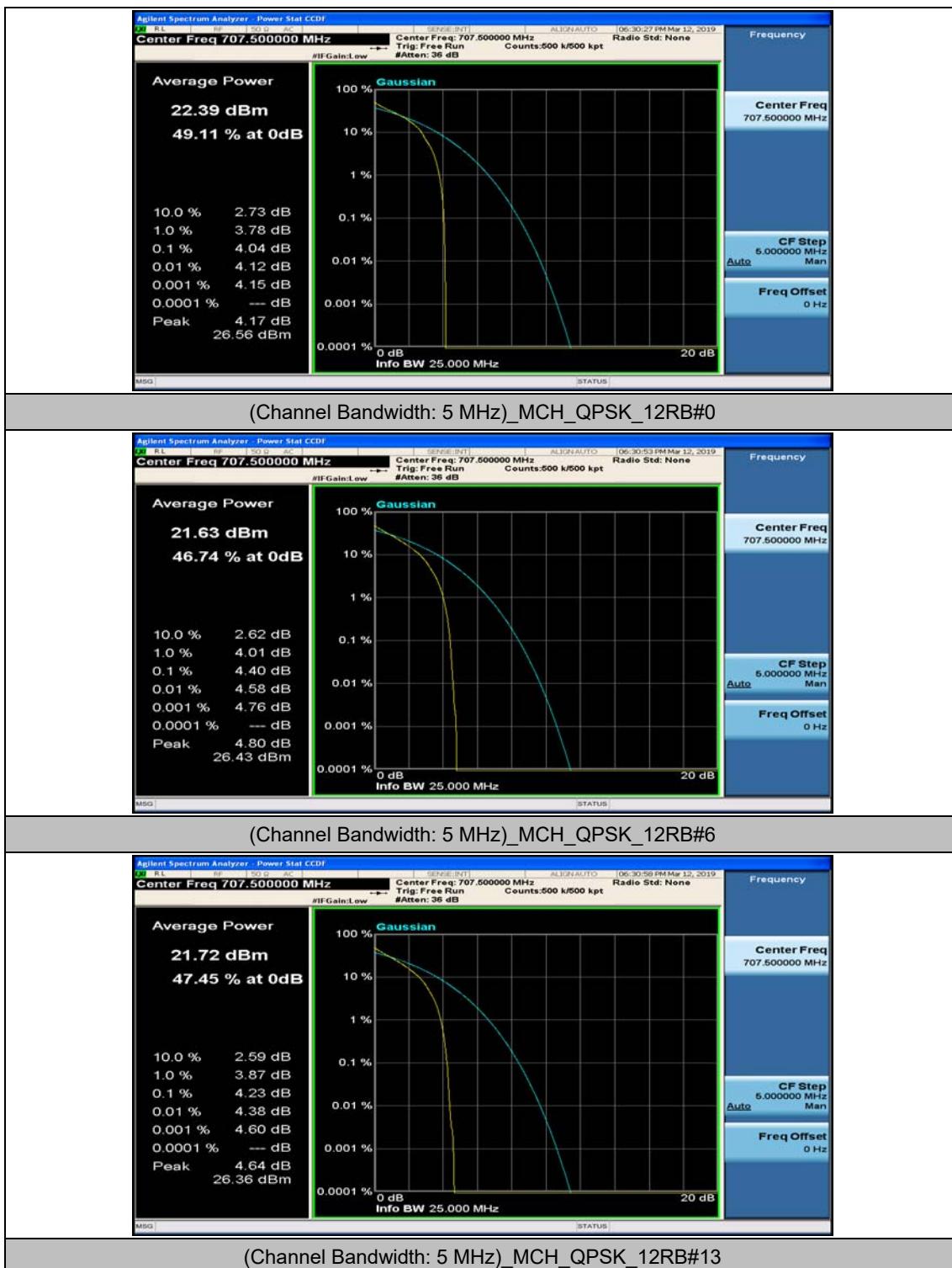
## Channel Bandwidth: 5 MHz

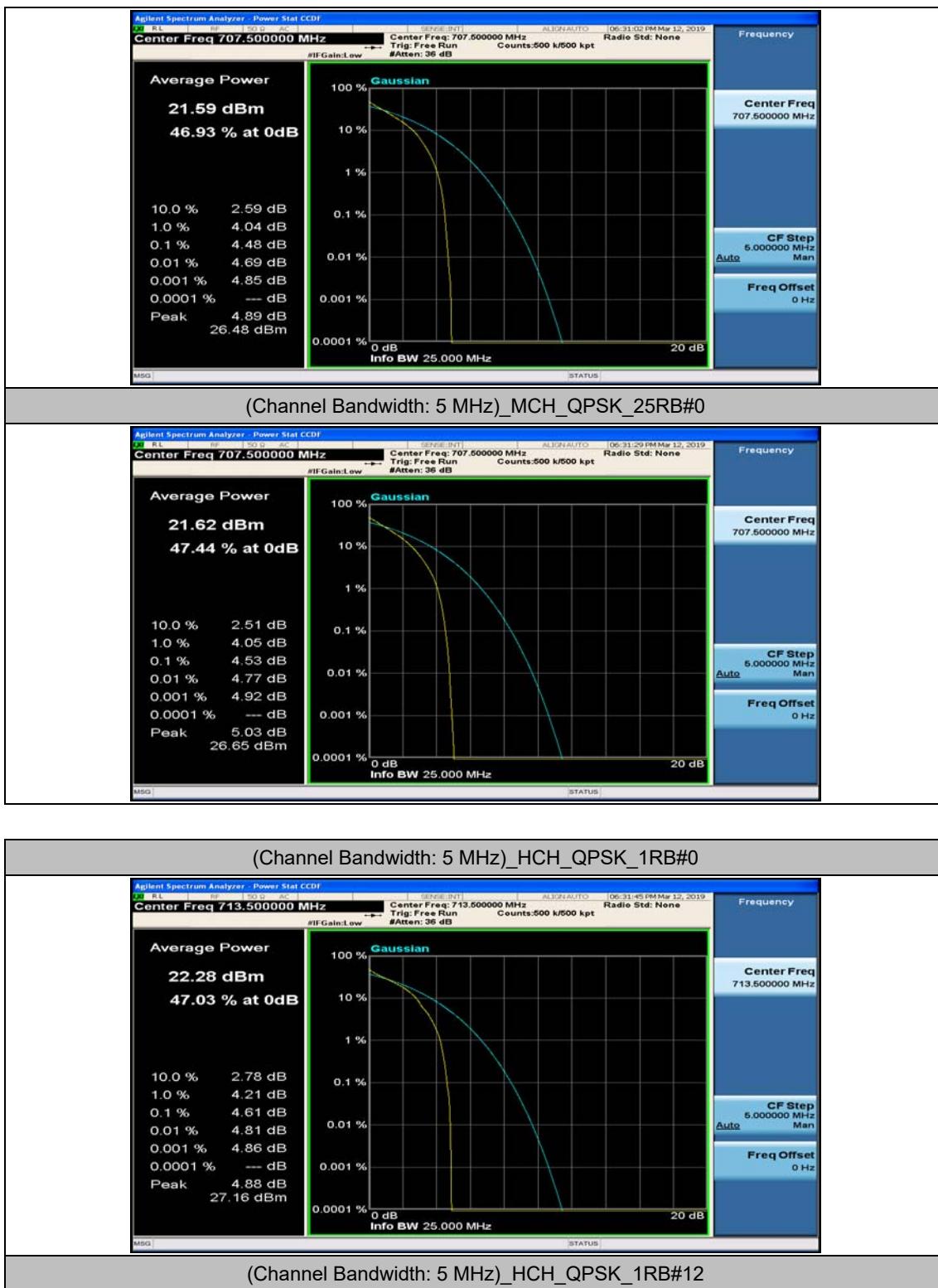


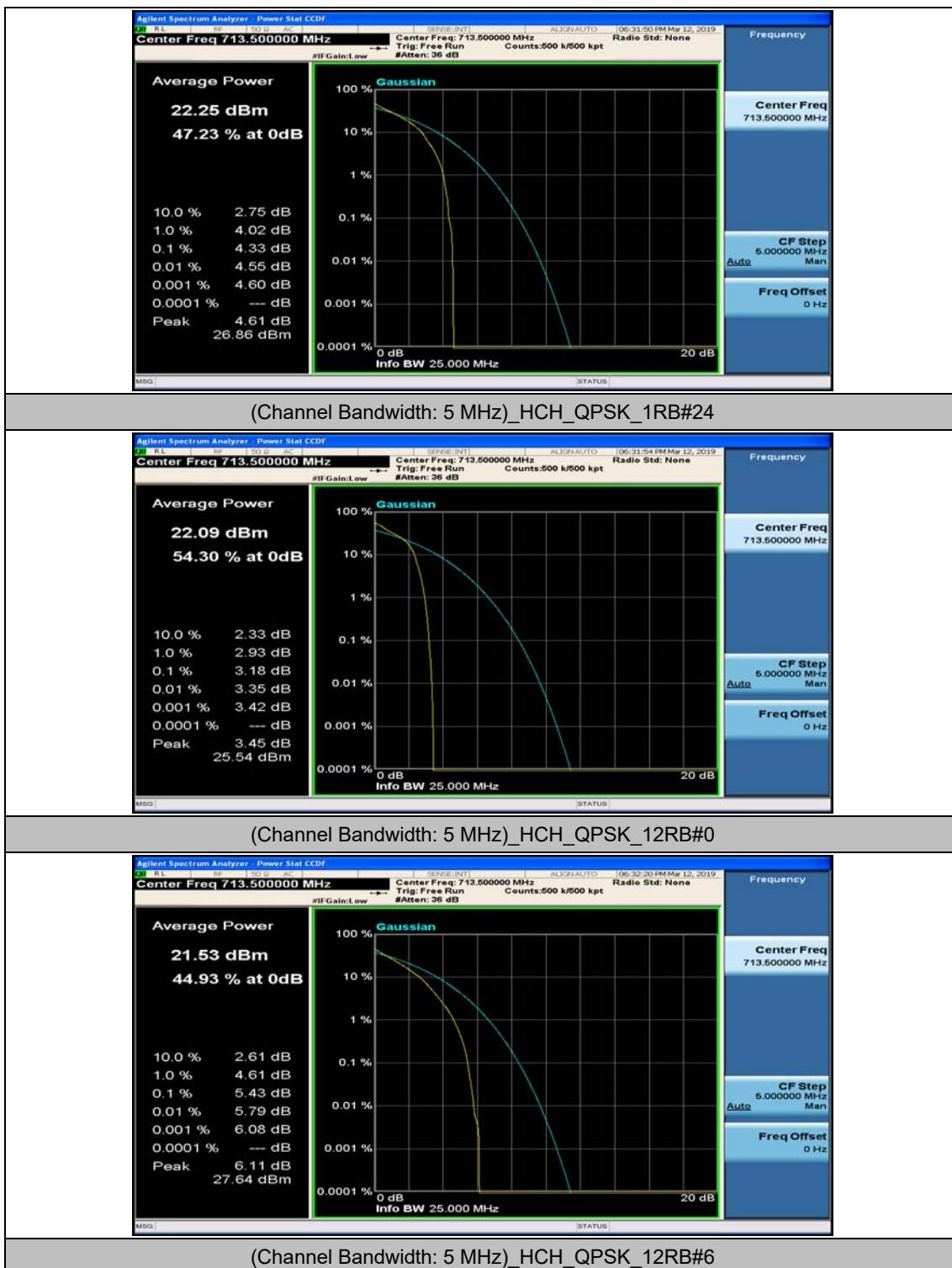


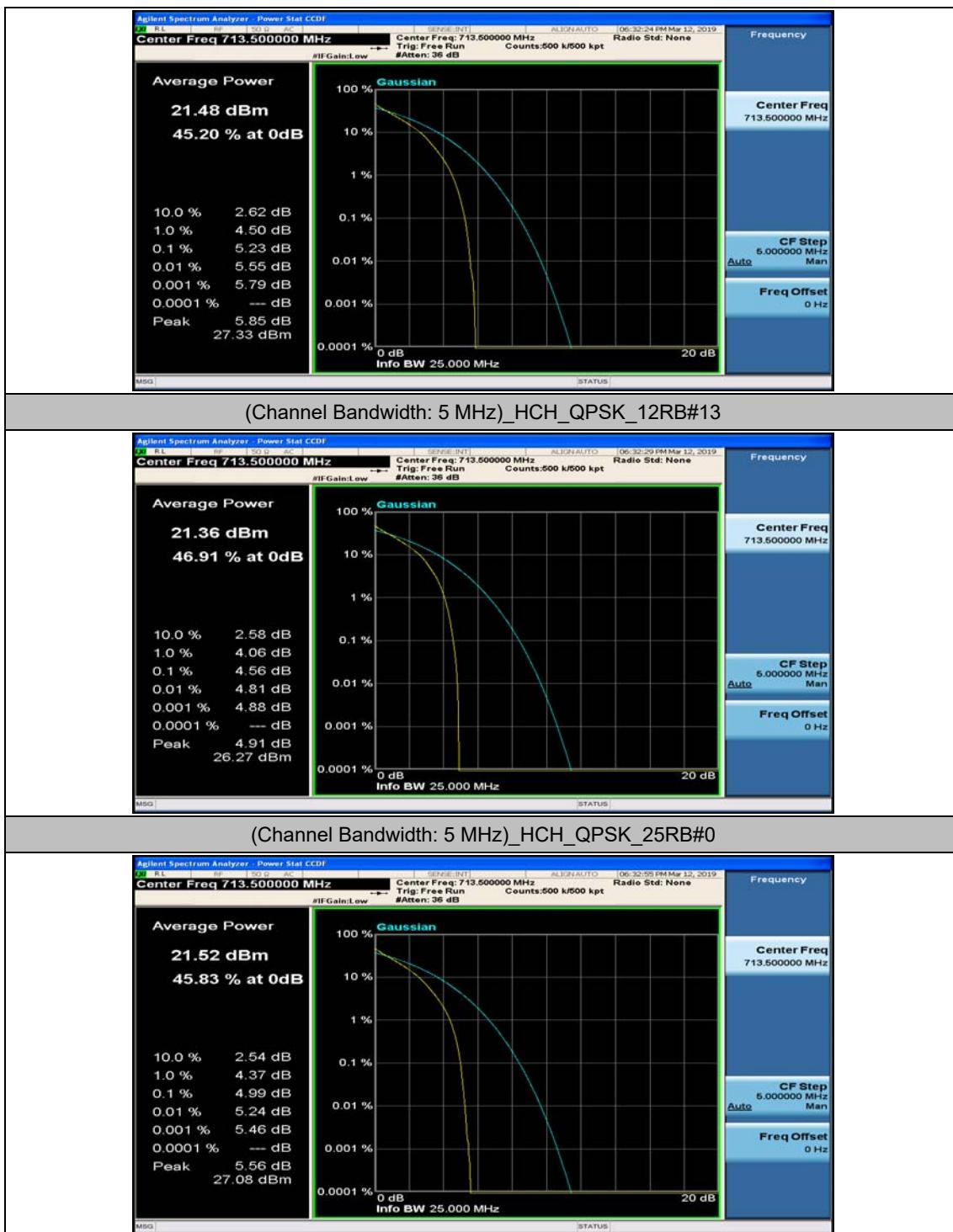


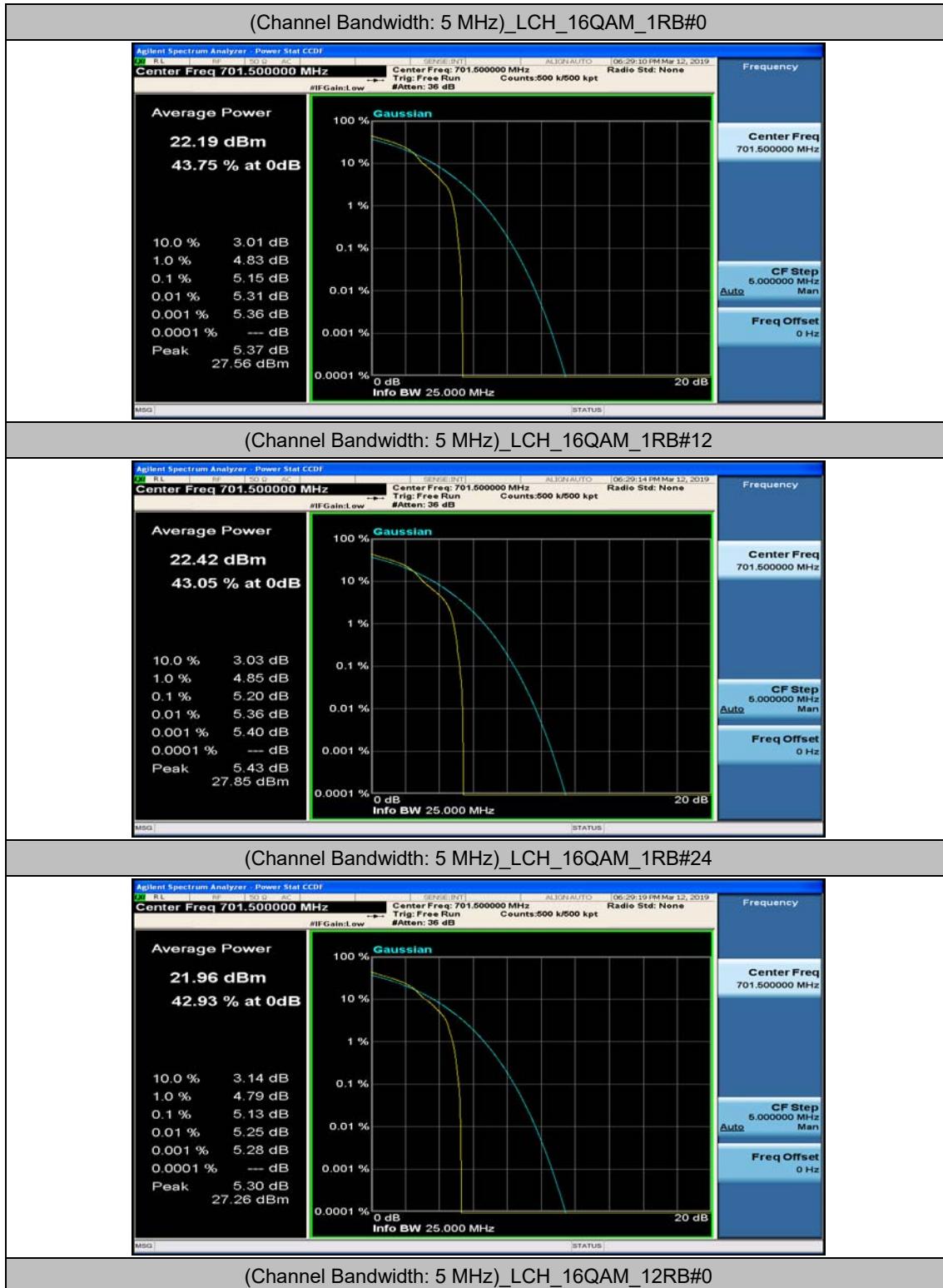
(Channel Bandwidth: 5 MHz)\_MCH\_QPSK\_1RB#24

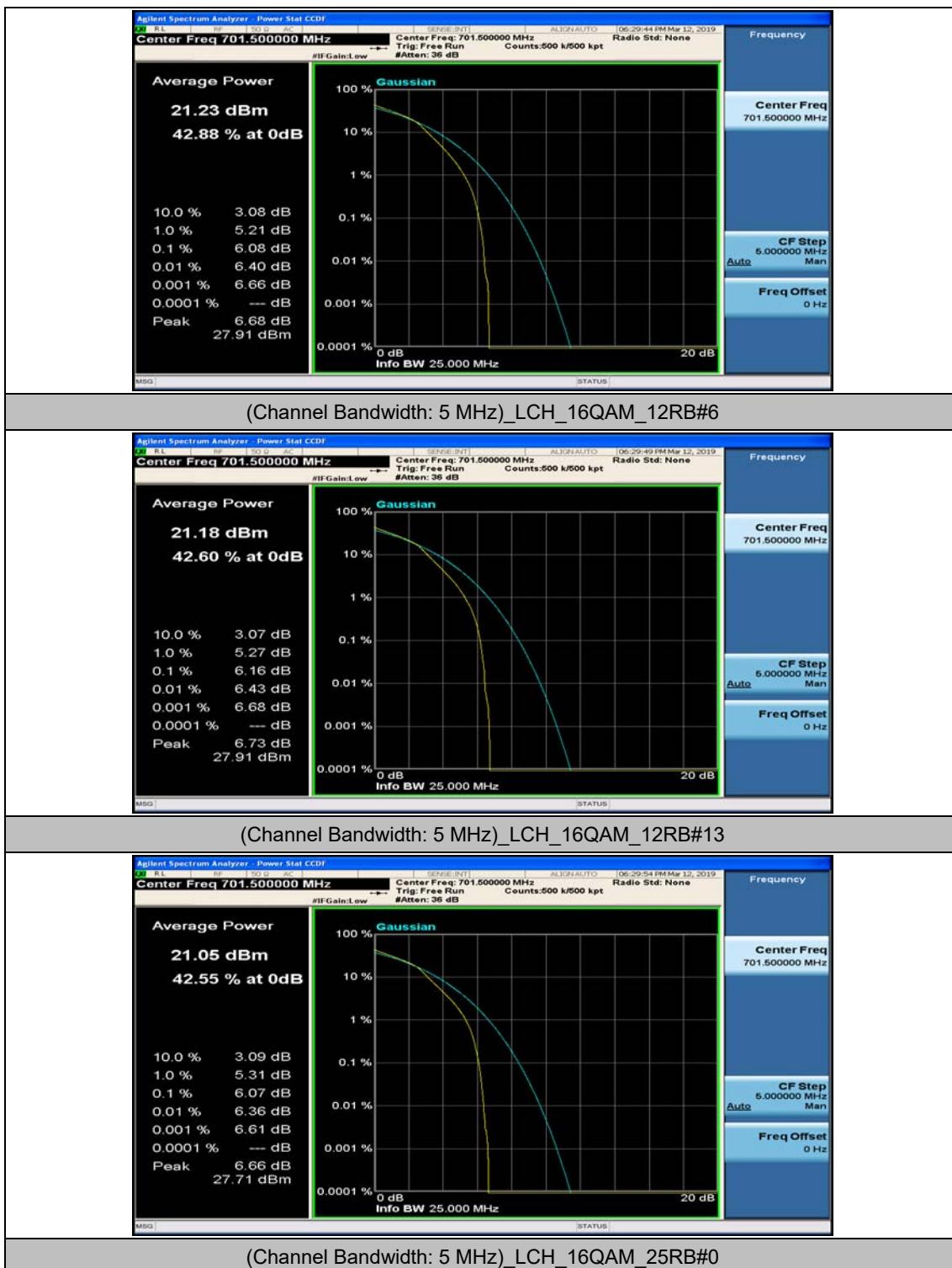


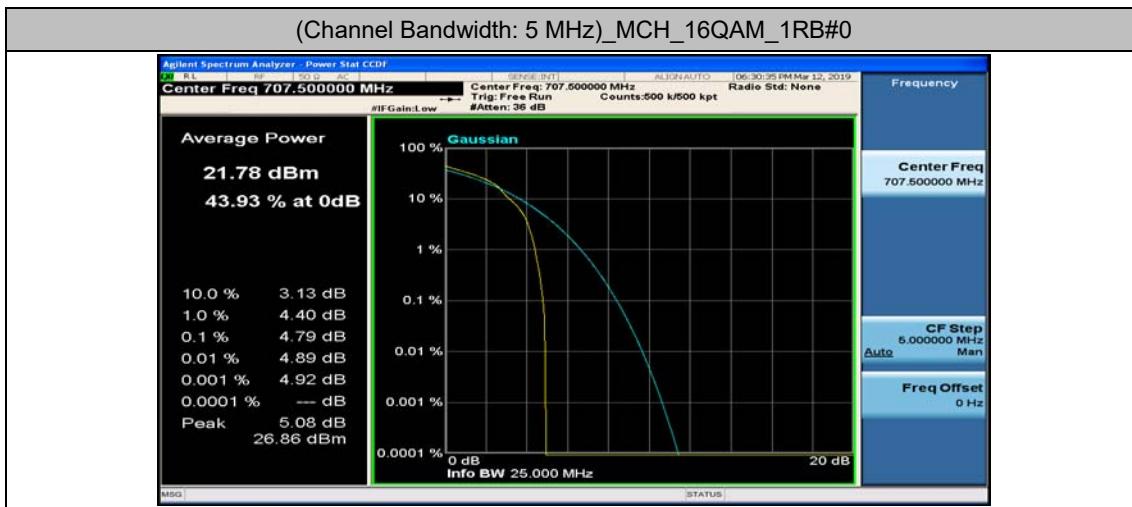




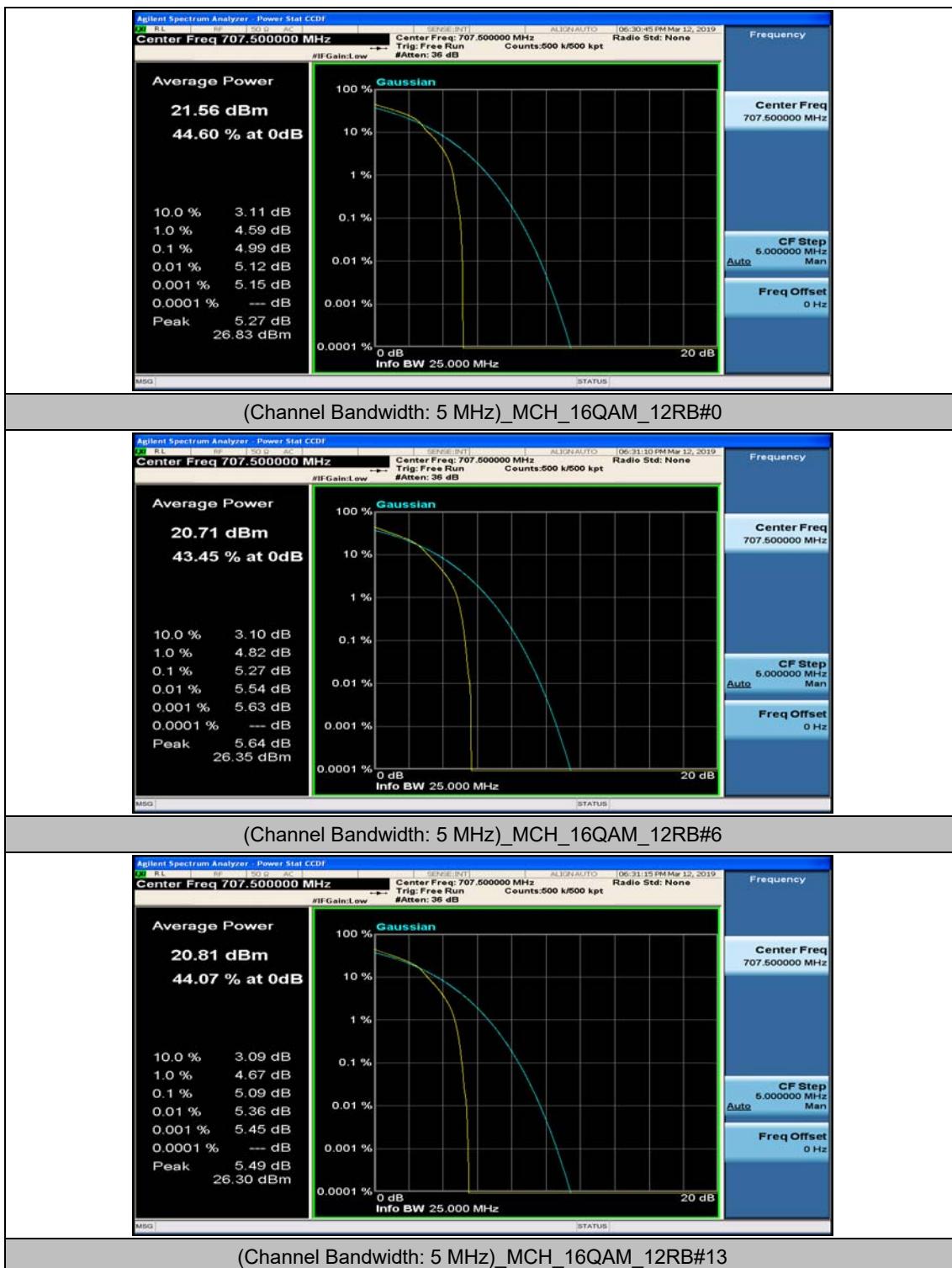


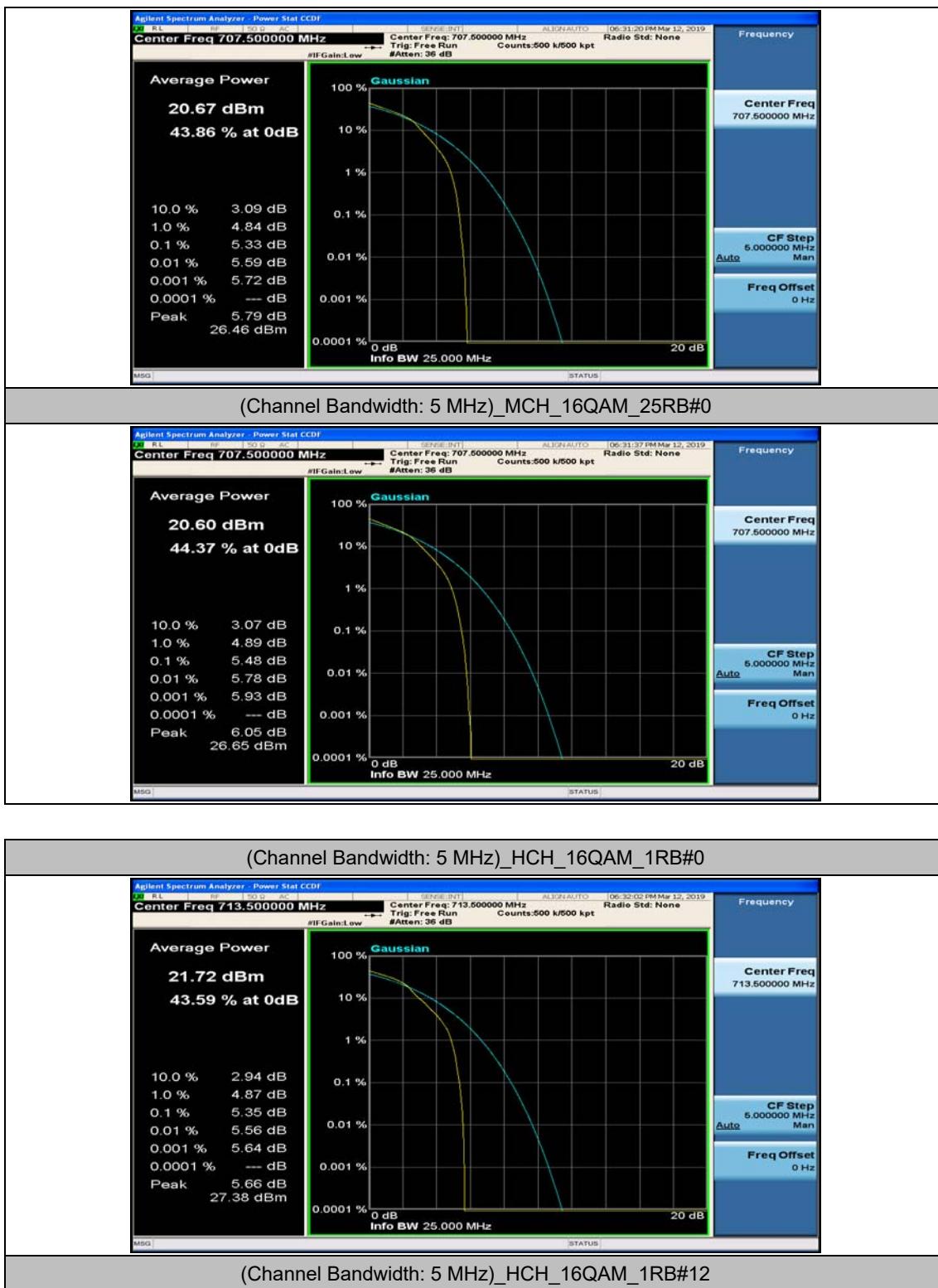


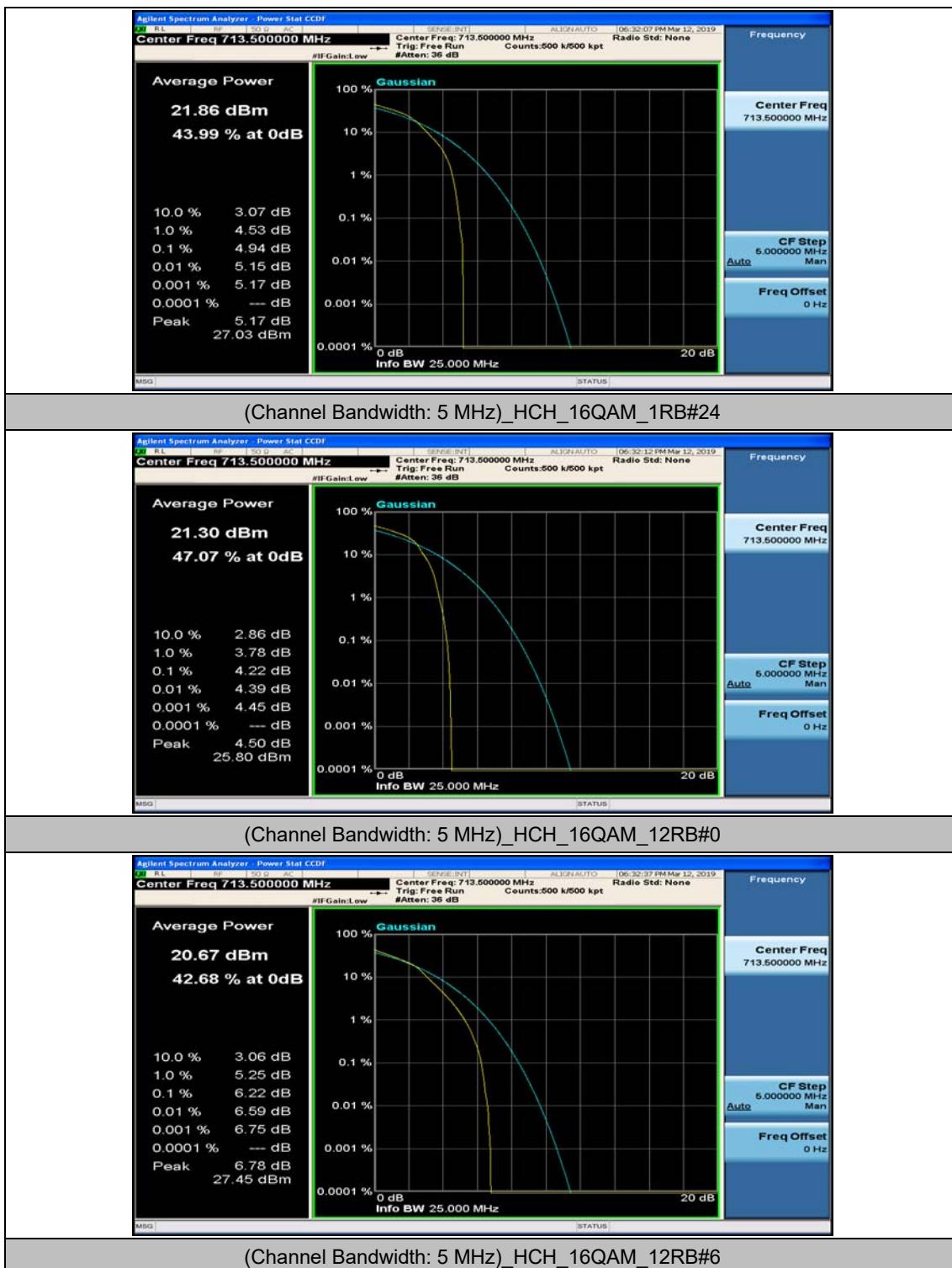


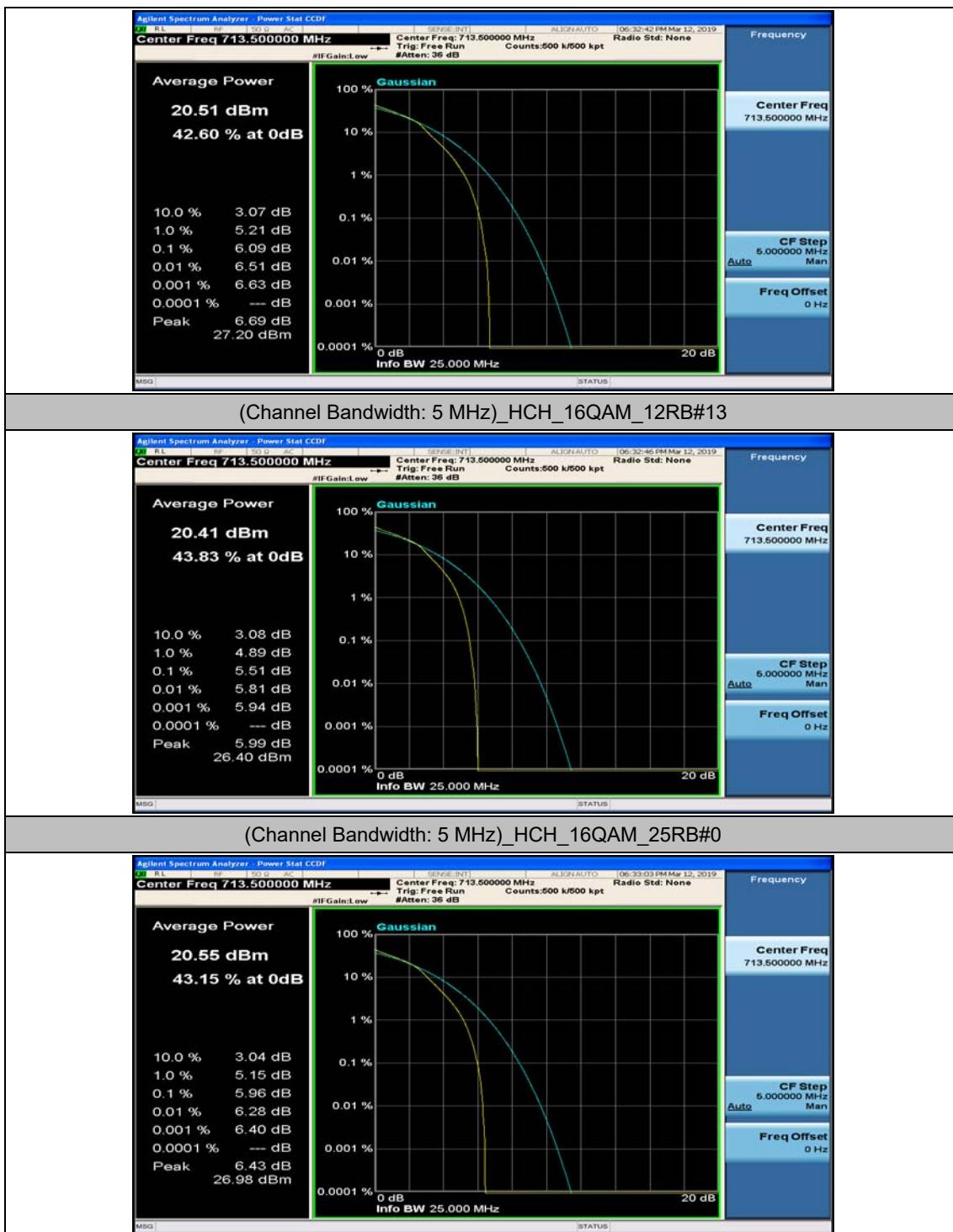


**(Channel Bandwidth: 5 MHz)\_MCH\_16QAM\_1RB#24**

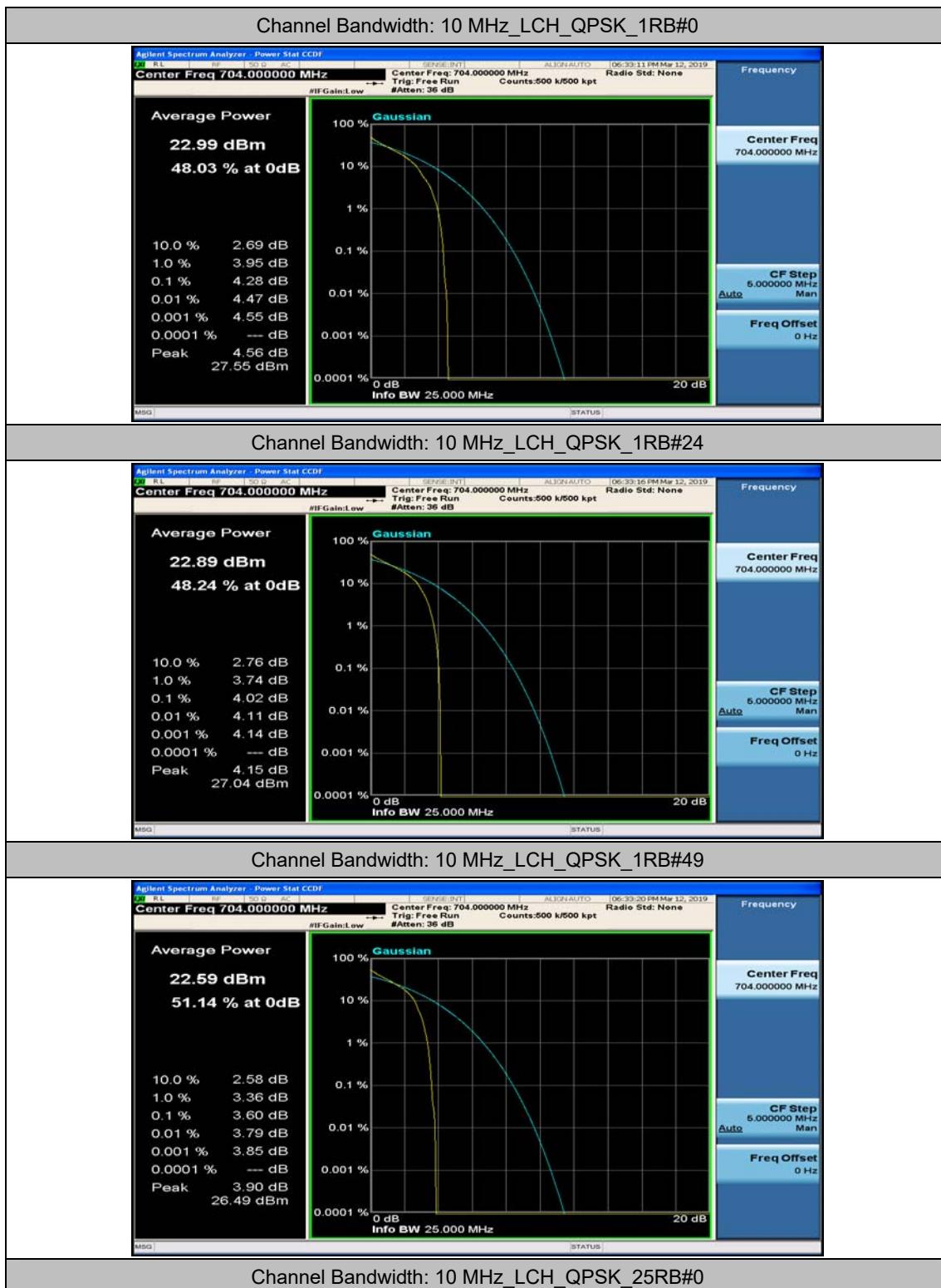


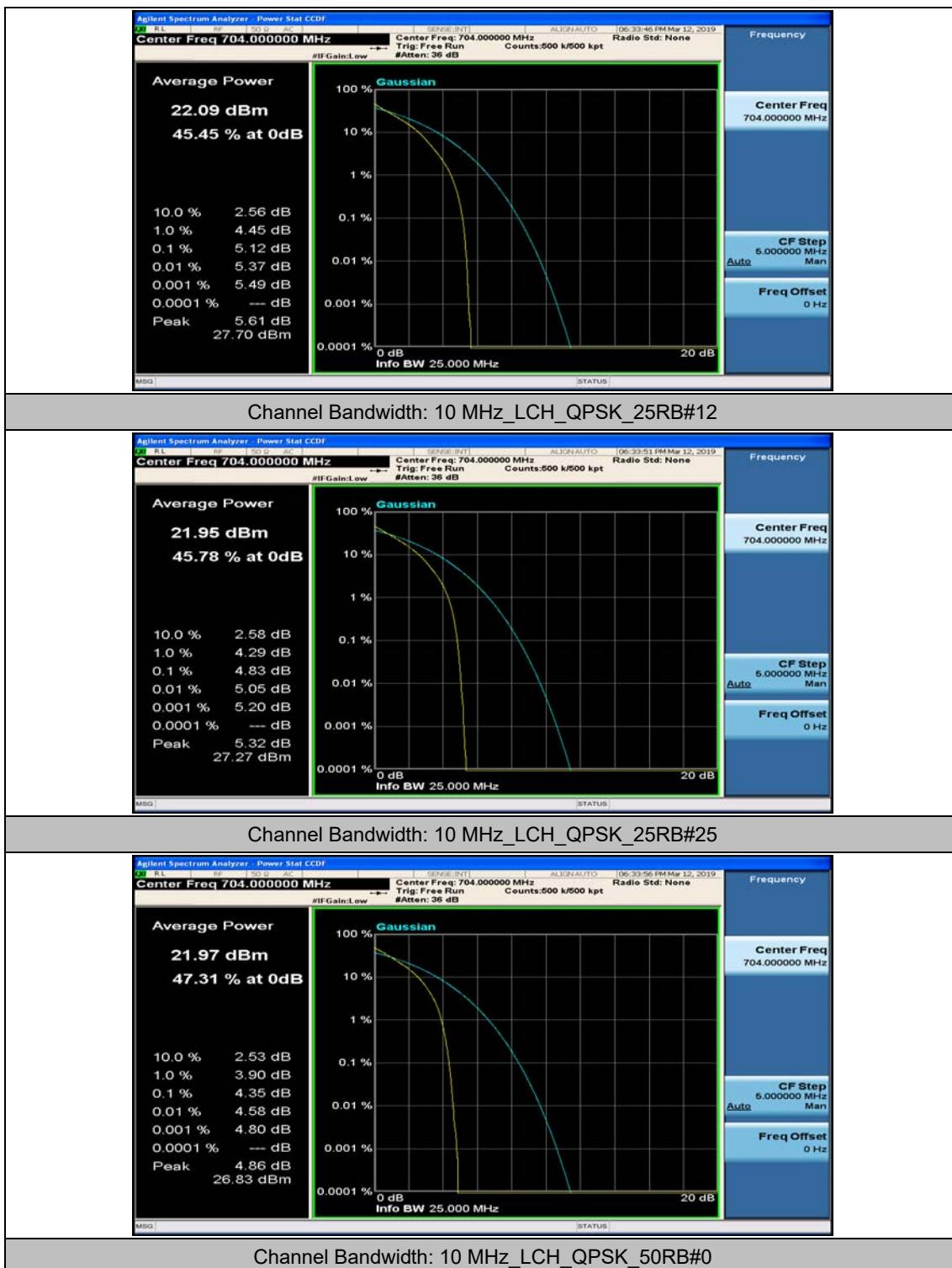


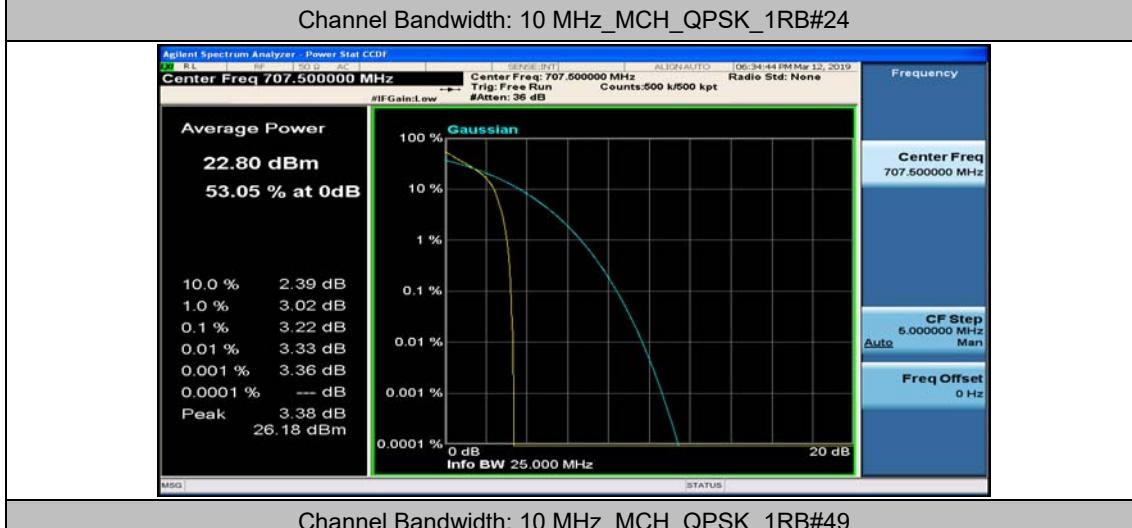
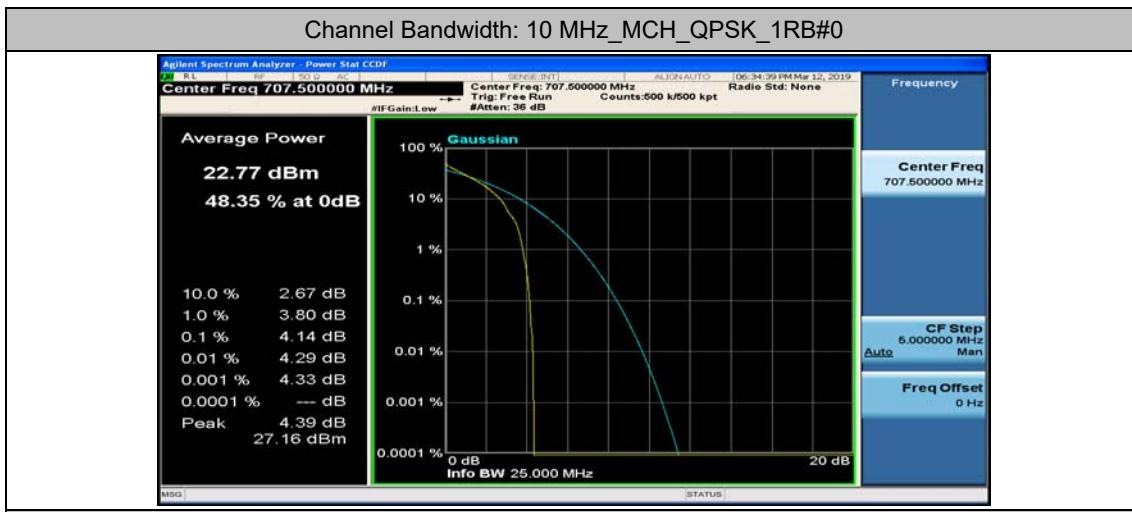
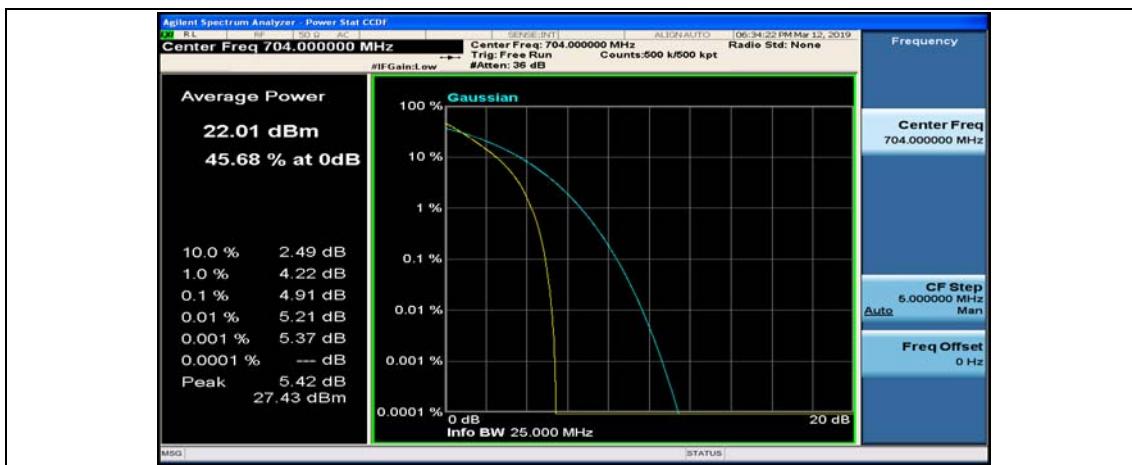




## Channel Bandwidth: 10 MHz







**Channel Bandwidth: 10 MHz\_MCH\_QPSK\_1RB#49**