

## Appendix A: Average Power Output Data

### Test Result

#### Channel Bandwidth: 5 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	23.05	PASS
		1	12	23.07	PASS
		1	24	23.32	PASS
		12	0	22.23	PASS
		12	6	22.26	PASS
		12	13	22.33	PASS
		25	0	22.25	PASS
	MCH	1	0	24.13	PASS
		1	12	24.26	PASS
		1	24	24.21	PASS
		12	0	23.17	PASS
		12	6	23.16	PASS
		12	13	23.21	PASS
		25	0	23.13	PASS
	HCH	1	0	24.08	PASS
		1	12	23.70	PASS
		1	24	23.94	PASS
		12	0	23.12	PASS
		12	6	22.87	PASS
		12	13	22.77	PASS
		25	0	22.85	PASS
16QAM	LCH	1	0	22.34	PASS
		1	12	22.65	PASS
		1	24	22.72	PASS
		12	0	21.42	PASS
		12	6	21.44	PASS
		12	13	21.51	PASS
		25	0	21.30	PASS
	MCH	1	0	23.19	PASS

		1	12	23.24	PASS
		1	24	23.21	PASS
		12	0	22.23	PASS
		12	6	22.22	PASS
		12	13	22.25	PASS
		25	0	22.18	PASS
	HCH	1	0	23.17	PASS
		1	12	22.93	PASS
		1	24	23.08	PASS
		12	0	22.07	PASS
		12	6	21.91	PASS
		12	13	21.89	PASS
		25	0	21.99	PASS

### Channel Bandwidth: 10 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	23.07	PASS
		1	24	23.21	PASS
		1	49	23.40	PASS
		25	0	22.12	PASS
		25	12	22.22	PASS
		25	25	22.30	PASS
		50	0	22.17	PASS
	MCH	1	0	23.93	PASS
		1	24	23.92	PASS
		1	49	24.01	PASS
		25	0	22.93	PASS
		25	12	22.95	PASS
		25	25	23.00	PASS
		50	0	22.95	PASS
	HCH	1	0	24.02	PASS
		1	24	23.46	PASS
		1	49	22.84	PASS
		25	0	22.99	PASS
		25	12	22.65	PASS
		25	25	22.27	PASS
		50	0	22.66	PASS
16QAM	LCH	1	0	22.33	PASS
		1	24	22.48	PASS
		1	49	22.64	PASS

		25	0	21.12	PASS
		25	12	21.23	PASS
		25	25	21.30	PASS
		50	0	21.21	PASS
	MCH	1	0	23.22	PASS
		1	24	23.21	PASS
		1	49	23.27	PASS
		25	0	21.99	PASS
		25	12	21.99	PASS
		25	25	22.03	PASS
		50	0	22.00	PASS
	HCH	1	0	23.40	PASS
		1	24	22.94	PASS
		1	49	22.28	PASS
		25	0	22.07	PASS
		25	12	21.81	PASS
		25	25	21.44	PASS
		50	0	21.77	PASS

### Channel Bandwidth: 15 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	23.11	PASS
		1	37	23.41	PASS
		1	74	23.55	PASS
		37	0	22.47	PASS
		37	18	22.63	PASS
		37	38	22.75	PASS
		75	0	22.63	PASS
	MCH	1	0	24.19	PASS
		1	37	24.27	PASS
		1	74	24.30	PASS
		37	0	23.02	PASS
		37	18	23.11	PASS
		37	38	23.17	PASS
		75	0	23.06	PASS
	HCH	1	0	23.88	PASS
		1	37	23.46	PASS
		1	74	22.68	PASS
		37	0	22.89	PASS
		37	18	22.64	PASS
		37	38	22.18	PASS

		75	0	22.84	PASS
16QAM	LCH	1	0	22.60	PASS
		1	37	22.90	PASS
		1	74	23.03	PASS
		37	0	21.50	PASS
		37	18	21.63	PASS
		37	38	21.75	PASS
		75	0	21.63	PASS
	MCH	1	0	23.20	PASS
		1	37	23.31	PASS
		1	74	23.38	PASS
		37	0	22.12	PASS
		37	18	22.17	PASS
		37	38	22.24	PASS
		75	0	22.08	PASS
	HCH	1	0	23.16	PASS
		1	37	22.86	PASS
		1	74	22.06	PASS
		37	0	21.99	PASS
		37	18	21.78	PASS
		37	38	21.37	PASS
		75	0	21.92	PASS

### Channel Bandwidth: 20 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	23.51	PASS
		1	49	23.81	PASS
		1	99	24.11	PASS
		50	0	22.53	PASS
		50	25	22.66	PASS
		50	50	22.83	PASS
		100	0	22.67	PASS
	MCH	1	0	24.34	PASS
		1	49	24.31	PASS
		1	99	24.38	PASS
		50	0	23.24	PASS
		50	25	23.26	PASS
		50	50	23.33	PASS
		100	0	23.26	PASS
	HCH	1	0	24.00	PASS
		1	49	23.95	PASS

		1	99	22.89	PASS
		50	0	22.96	PASS
		50	25	22.92	PASS
		50	50	22.52	PASS
		100	0	22.80	PASS
16QAM	LCH	1	0	22.67	PASS
		1	49	22.98	PASS
		1	99	23.28	PASS
		50	0	21.55	PASS
		50	25	21.67	PASS
		50	50	21.84	PASS
		100	0	21.68	PASS
	MCH	1	0	23.49	PASS
		1	49	23.51	PASS
		1	99	23.59	PASS
		50	0	22.26	PASS
		50	25	22.28	PASS
		50	50	22.35	PASS
		100	0	22.31	PASS
	HCH	1	0	23.31	PASS
		1	49	23.38	PASS
		1	99	22.31	PASS
		50	0	22.09	PASS
		50	25	22.07	PASS
		50	50	21.74	PASS
		100	0	21.89	PASS

## Appendix B: Peak-to-Average Ratio

### Test Result

#### 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	4.47	<13	PASS
		1	12	4.45	<13	PASS
		1	24	4.4	<13	PASS
		12	0	5.36	<13	PASS
		12	6	5.25	<13	PASS
		12	13	5.22	<13	PASS
		25	0	5.3	<13	PASS
	MCH	1	0	4.32	<13	PASS
		1	12	4.28	<13	PASS
		1	24	4.27	<13	PASS
		12	0	5.12	<13	PASS
		12	6	5.04	<13	PASS
		12	13	5.05	<13	PASS
		25	0	5.18	<13	PASS
	HCH	1	0	3.84	<13	PASS
		1	12	4.51	<13	PASS
		1	24	4.56	<13	PASS
		12	0	5.05	<13	PASS
		12	6	5.13	<13	PASS
		12	13	5.27	<13	PASS
		25	0	5.16	<13	PASS
16QAM	LCH	1	0	5.45	<13	PASS
		1	12	5.38	<13	PASS
		1	24	5.23	<13	PASS
		12	0	6.1	<13	PASS
		12	6	6.09	<13	PASS
		12	13	5.98	<13	PASS
		25	0	6.12	<13	PASS

	MCH	1	0	4.94	<13	PASS
		1	12	4.88	<13	PASS
		1	24	4.82	<13	PASS
		12	0	6.04	<13	PASS
		12	6	5.94	<13	PASS
		12	13	5.99	<13	PASS
		25	0	5.91	<13	PASS
	HCH	1	0	4.84	<13	PASS
		1	12	5.34	<13	PASS
		1	24	5.59	<13	PASS
		12	0	5.7	<13	PASS
		12	6	5.87	<13	PASS
		12	13	5.9	<13	PASS
		25	0	5.89	<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	4.71	<13	PASS
		1	24	4.47	<13	PASS
		1	49	4.4	<13	PASS
		25	0	5.25	<13	PASS
		25	12	5.2	<13	PASS
		25	25	5.15	<13	PASS
		50	0	5.21	<13	PASS
	MCH	1	0	4.46	<13	PASS
		1	24	4.26	<13	PASS
		1	49	4.26	<13	PASS
		25	0	5.14	<13	PASS
		25	12	5.09	<13	PASS
		25	25	5.04	<13	PASS
		50	0	5.11	<13	PASS
	HCH	1	0	3.96	<13	PASS
		1	24	4.06	<13	PASS
		1	49	4.66	<13	PASS
		25	0	4.81	<13	PASS
		25	12	4.93	<13	PASS
		25	25	5.09	<13	PASS
		50	0	4.97	<13	PASS
16QAM	LCH	1	0	5.48	<13	PASS

		1	24	5.4	<13	PASS
		1	49	5.33	<13	PASS
		25	0	6.07	<13	PASS
		25	12	6.04	<13	PASS
		25	25	6	<13	PASS
		50	0	5.93	<13	PASS
	MCH	1	0	5.42	<13	PASS
		1	24	5.24	<13	PASS
		1	49	5.09	<13	PASS
		25	0	6	<13	PASS
		25	12	5.92	<13	PASS
		25	25	5.83	<13	PASS
	HCH	50	0	5.85	<13	PASS
		1	0	4.83	<13	PASS
		1	24	4.88	<13	PASS
		1	49	5.43	<13	PASS
		25	0	5.62	<13	PASS
		25	12	5.66	<13	PASS
		25	25	5.81	<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	4.67	<13	PASS
		1	37	4.36	<13	PASS
		1	74	4.53	<13	PASS
		37	0	5.2	<13	PASS
		37	18	5.13	<13	PASS
		37	38	5.13	<13	PASS
		75	0	5.49	<13	PASS
	MCH	1	0	4.53	<13	PASS
		1	37	4.25	<13	PASS
		1	74	4.3	<13	PASS
		37	0	5.13	<13	PASS
		37	18	5.03	<13	PASS
		37	38	5	<13	PASS
		75	0	5.4	<13	PASS
	HCH	1	0	4.57	<13	PASS
		1	37	4.17	<13	PASS



		1	74	4.89	<13	PASS
		37	0	5.02	<13	PASS
		37	18	4.91	<13	PASS
		37	38	5.05	<13	PASS
		75	0	5.32	<13	PASS
16QAM	LCH	1	0	5.52	<13	PASS
		1	37	5.28	<13	PASS
		1	74	5.46	<13	PASS
		37	0	6.05	<13	PASS
		37	18	5.93	<13	PASS
		37	38	5.93	<13	PASS
		75	0	6.06	<13	PASS
	MCH	1	0	5.5	<13	PASS
		1	37	5.11	<13	PASS
		1	74	5.02	<13	PASS
		37	0	5.96	<13	PASS
		37	18	5.89	<13	PASS
		37	38	5.82	<13	PASS
		75	0	5.99	<13	PASS
	HCH	1	0	5.5	<13	PASS
		1	37	4.83	<13	PASS
		1	74	5.76	<13	PASS
		37	0	5.88	<13	PASS
		37	18	5.72	<13	PASS
		37	38	5.78	<13	PASS
		75	0	5.9	<13	PASS

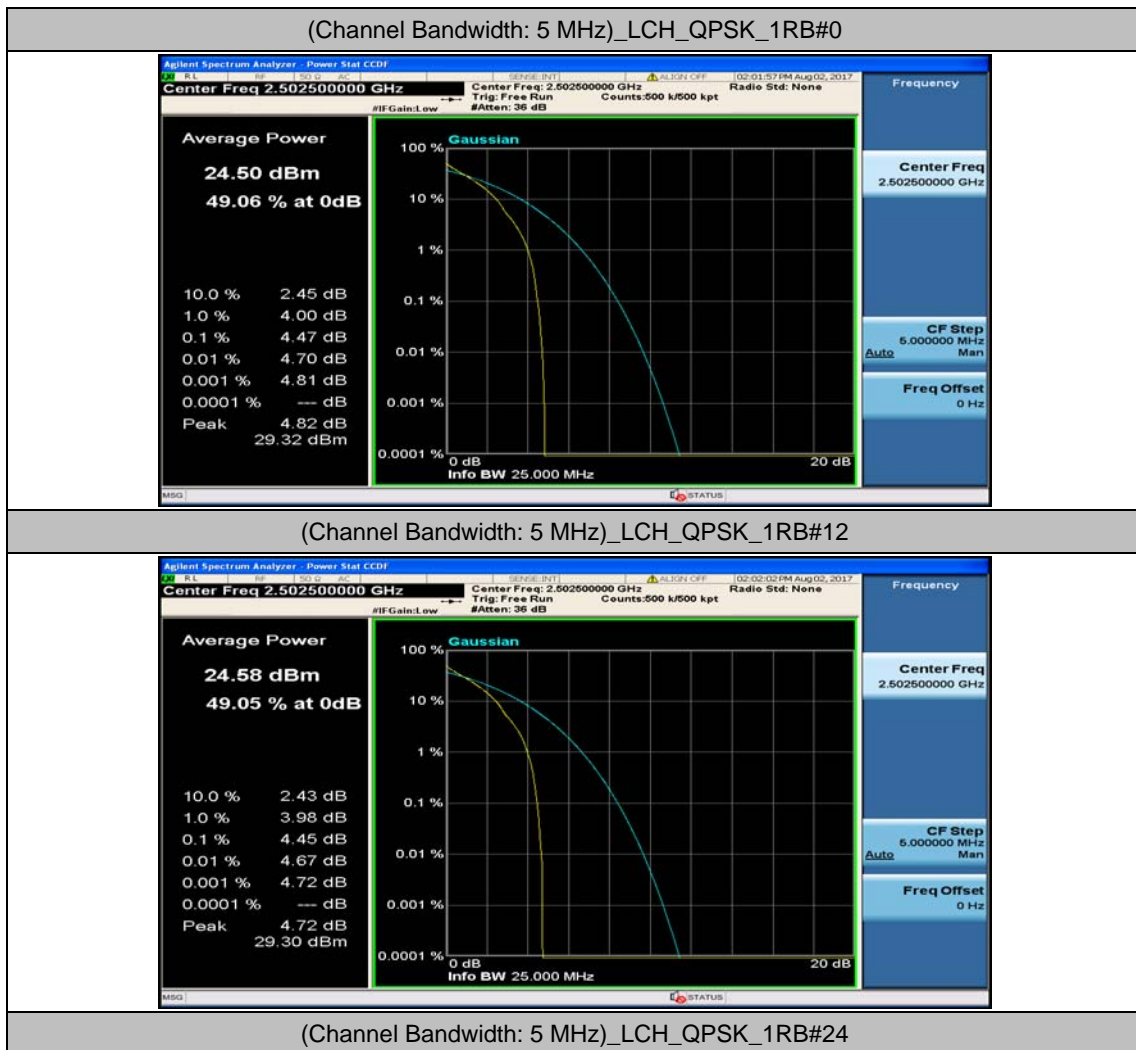
### Channel Bandwidth: 20 MHz

Channel Bandwidth: 20 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	LCH	1	0	4.72	<13	PASS
		1	49	4.34	<13	PASS
		1	99	4.68	<13	PASS
		50	0	5.17	<13	PASS
		50	25	5.19	<13	PASS
		50	50	5.29	<13	PASS
		100	0	5.43	<13	PASS
	MCH	1	0	4.64	<13	PASS
		1	49	4.28	<13	PASS
		1	99	4.41	<13	PASS

		50	0	5.18	<13	PASS	
		50	25	5.04	<13	PASS	
		50	50	5.07	<13	PASS	
		100	0	5.32	<13	PASS	
	HCH	1	0	4.89	<13	PASS	
		1	49	4.23	<13	PASS	
		1	99	4.89	<13	PASS	
		50	0	5.3	<13	PASS	
		50	25	5.06	<13	PASS	
		50	50	5.1	<13	PASS	
		100	0	5.26	<13	PASS	
	16QAM	LCH	1	0	5.45	<13	PASS
			1	49	5.14	<13	PASS
1			99	5.45	<13	PASS	
50			0	5.96	<13	PASS	
50			25	5.92	<13	PASS	
50			50	5.99	<13	PASS	
100			0	6.07	<13	PASS	
MCH		1	0	5.72	<13	PASS	
		1	49	5.17	<13	PASS	
		1	99	5.04	<13	PASS	
		50	0	5.96	<13	PASS	
		50	25	5.85	<13	PASS	
		50	50	5.86	<13	PASS	
		100	0	6.01	<13	PASS	
HCH		1	0	5.73	<13	PASS	
		1	49	4.85	<13	PASS	
		1	99	5.41	<13	PASS	
		50	0	6.04	<13	PASS	
		50	25	5.81	<13	PASS	
		50	50	5.75	<13	PASS	
		100	0	5.96	<13	PASS	

## Test Graphs

### Channel Bandwidth: 5 MHz





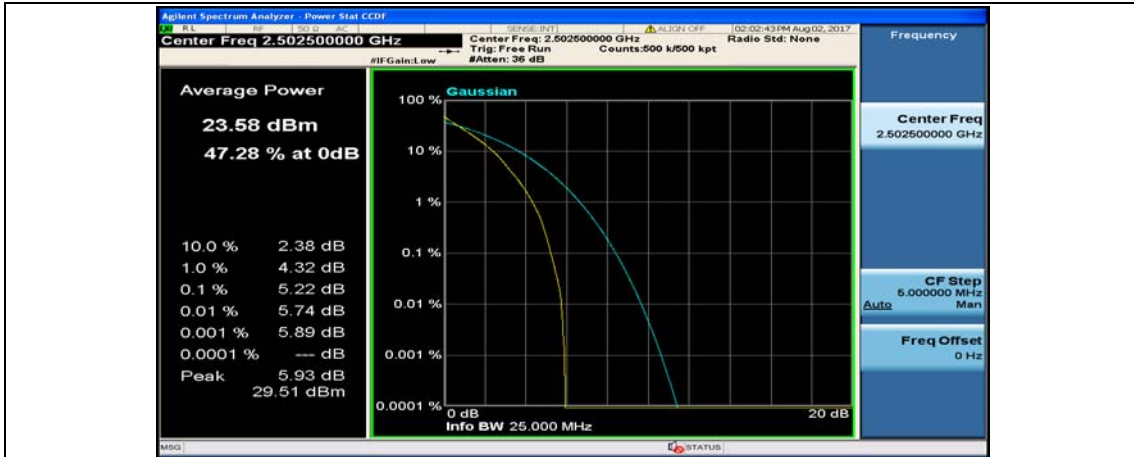
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(Channel Bandwidth: 5 MHz)\_LCH\_QPSK\_12RB#6



(Channel Bandwidth: 5 MHz)\_LCH\_QPSK\_12RB#13



(Channel Bandwidth: 5 MHz)\_LCH\_QPSK\_25RB#0



(Channel Bandwidth: 5 MHz)\_MCH\_QPSK\_1RB#0



(Channel Bandwidth: 5 MHz)\_MCH\_QPSK\_1RB#12



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



(Channel Bandwidth: 5 MHz)\_MCH\_QPSK\_12RB#0



(Channel Bandwidth: 5 MHz)\_MCH\_QPSK\_12RB#6



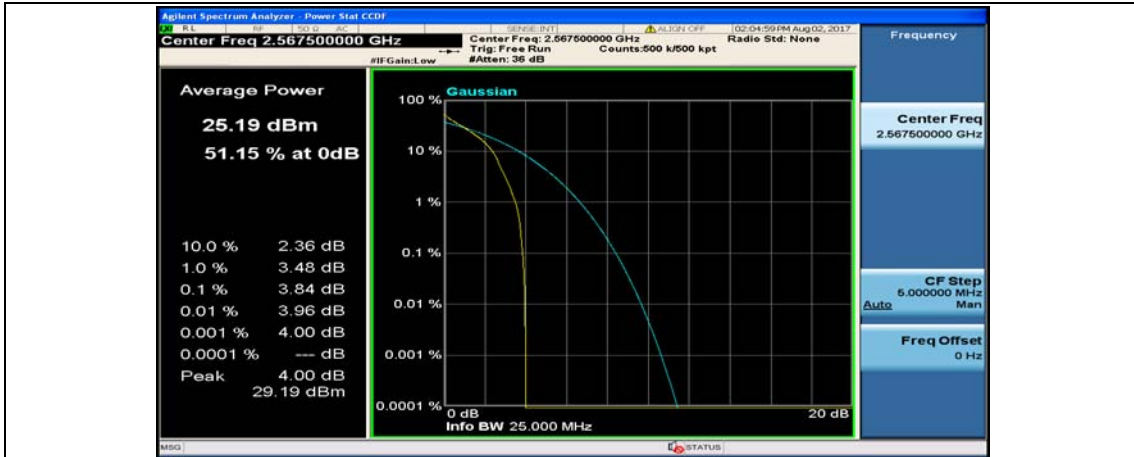
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(Channel Bandwidth: 5 MHz)\_MCH\_QPSK\_25RB#0



(Channel Bandwidth: 5 MHz)\_HCH\_QPSK\_1RB#0



(Channel Bandwidth: 5 MHz)\_HCH\_QPSK\_1RB#12



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

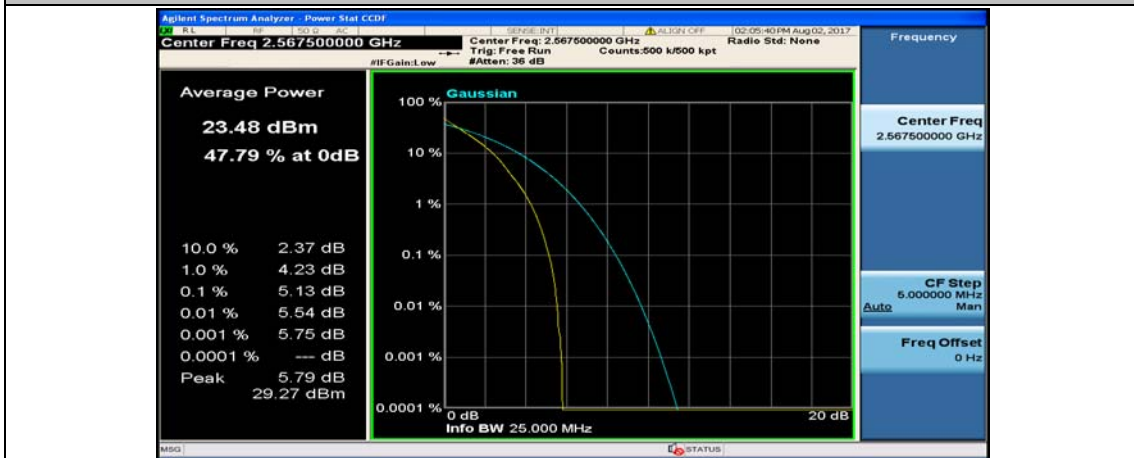


(Channel Bandwidth: 5 MHz)\_HCH\_QPSK\_12RB#0

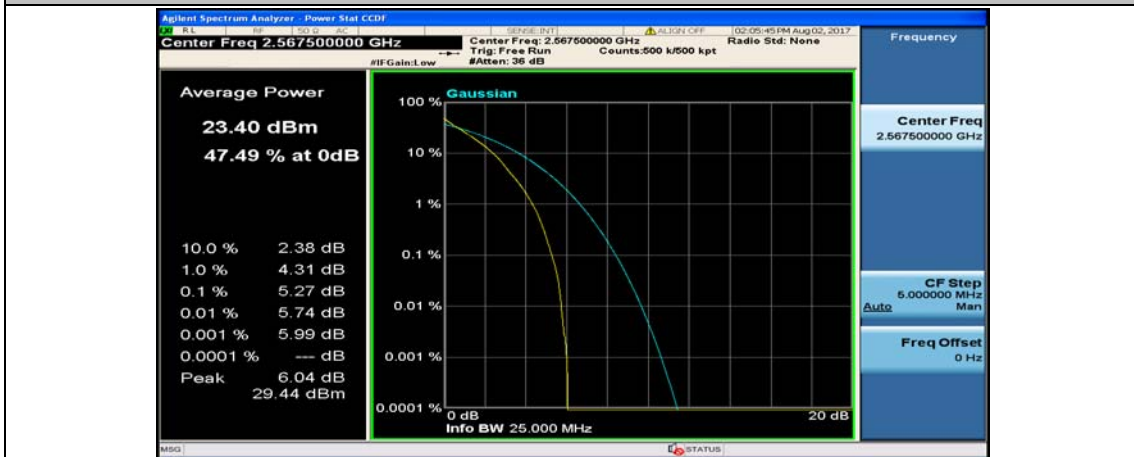




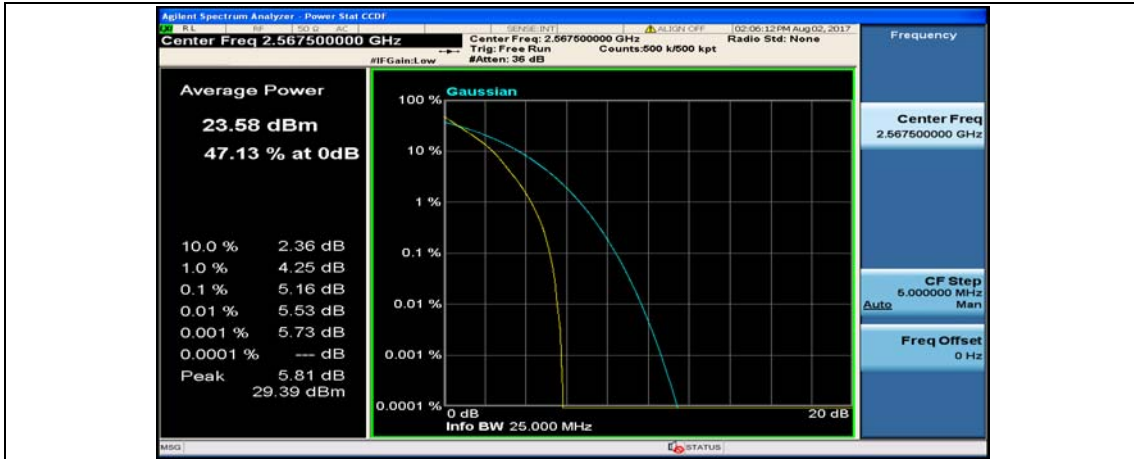
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(Channel Bandwidth: 5 MHz)\_HCH\_QPSK\_12RB#13



(Channel Bandwidth: 5 MHz)\_HCH\_QPSK\_25RB#0



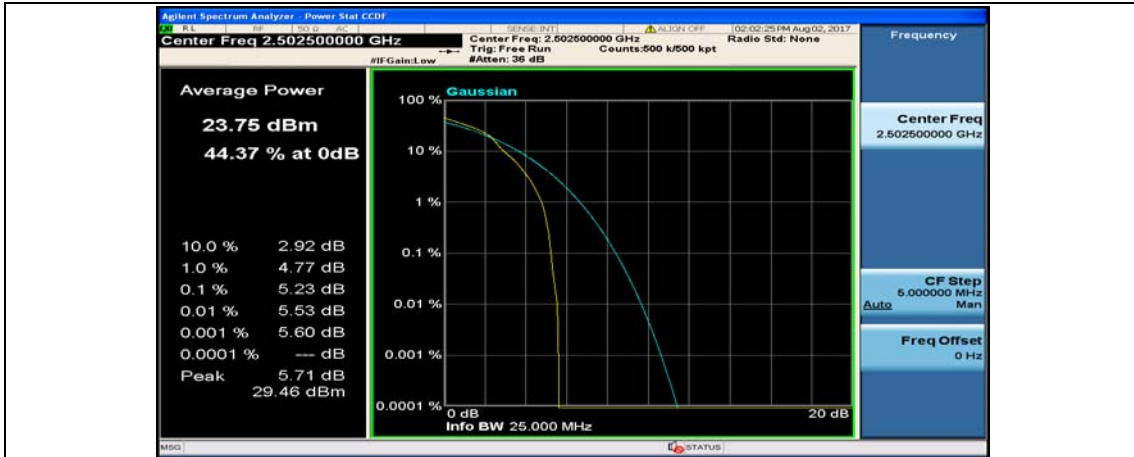
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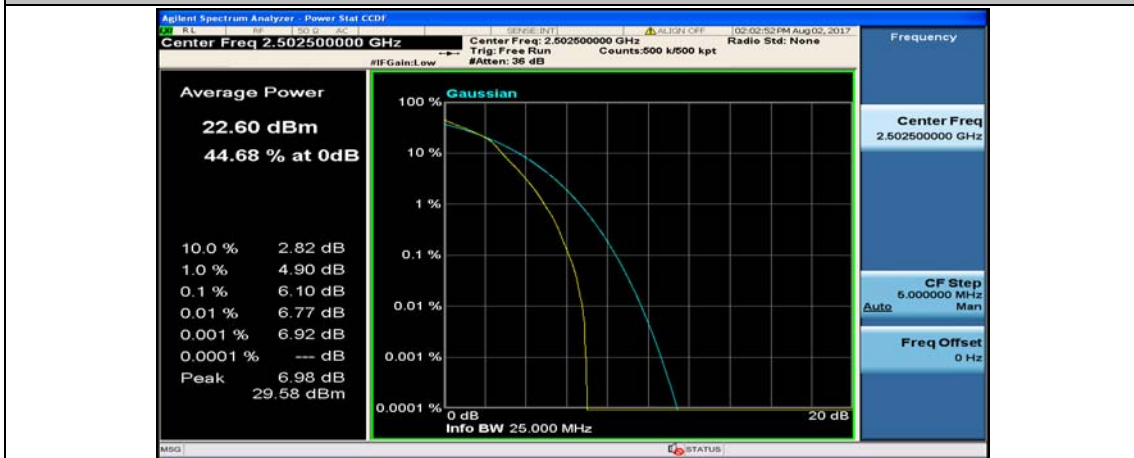
(Channel Bandwidth: 5 MHz) LCH\_16QAM\_1RB#12



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



(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_12RB#0



(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_12RB#6



(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_12RB#13



(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_25RB#0



(Channel Bandwidth: 5 MHz)\_MCH\_16QAM\_1RB#0



(Channel Bandwidth: 5 MHz)\_MCH\_16QAM\_1RB#12



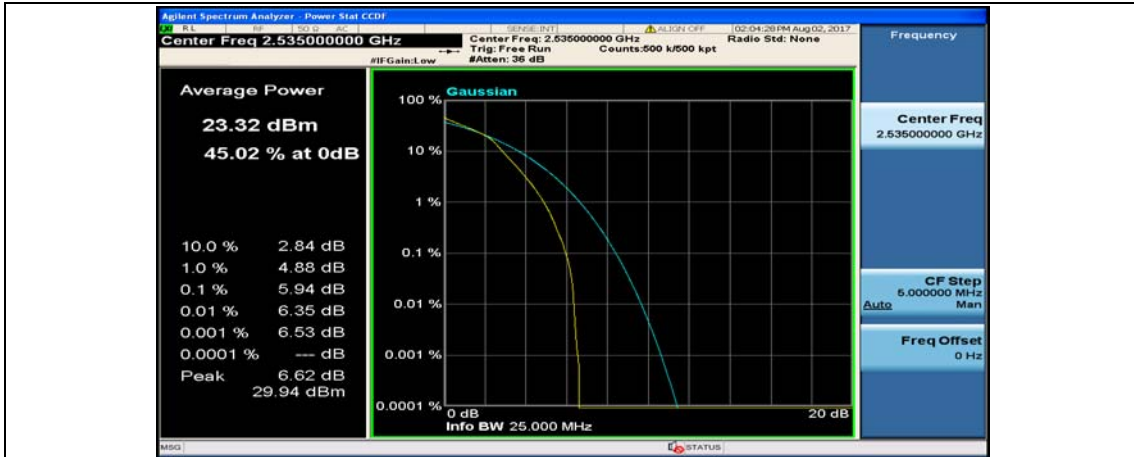
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(Channel Bandwidth: 5 MHz)\_MCH\_16QAM\_12RB#0



(Channel Bandwidth: 5 MHz)\_MCH\_16QAM\_12RB#6



(Channel Bandwidth: 5 MHz)\_MCH\_16QAM\_12RB#13



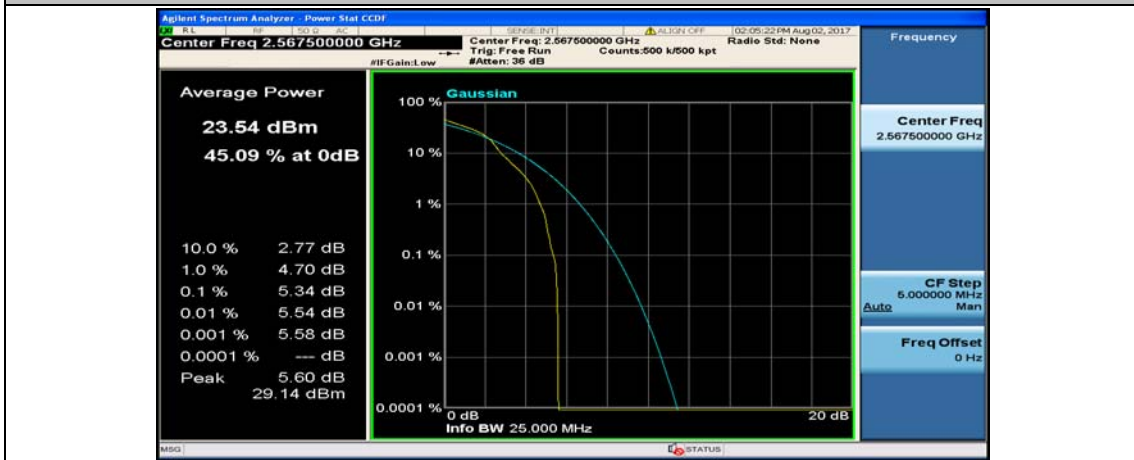
(Channel Bandwidth: 5 MHz)\_MCH\_16QAM\_25RB#0



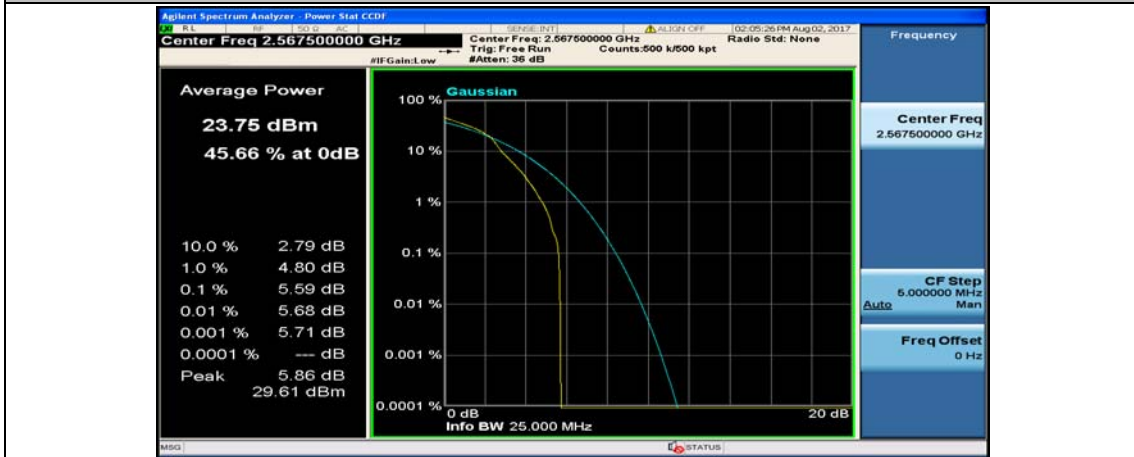
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(Channel Bandwidth: 5 MHz)\_HCH\_16QAM\_1RB#12



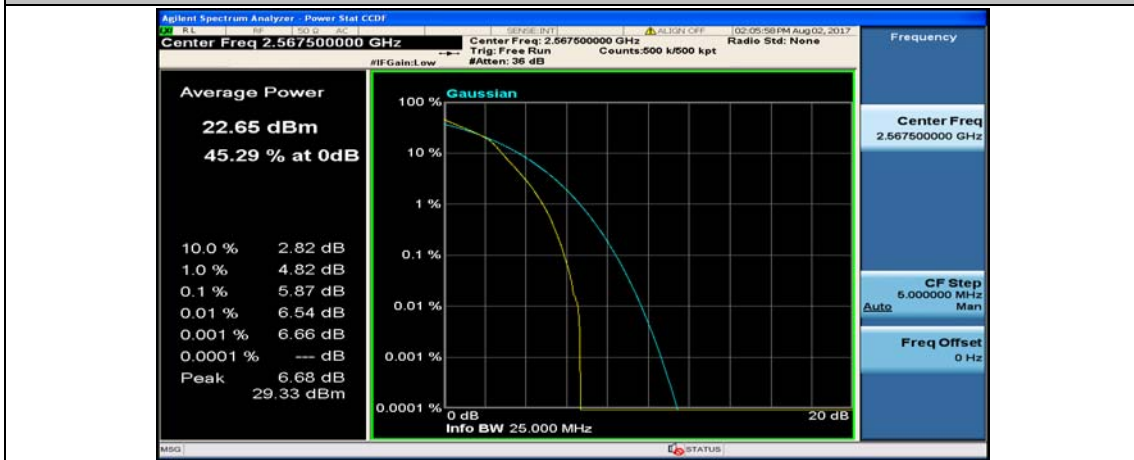
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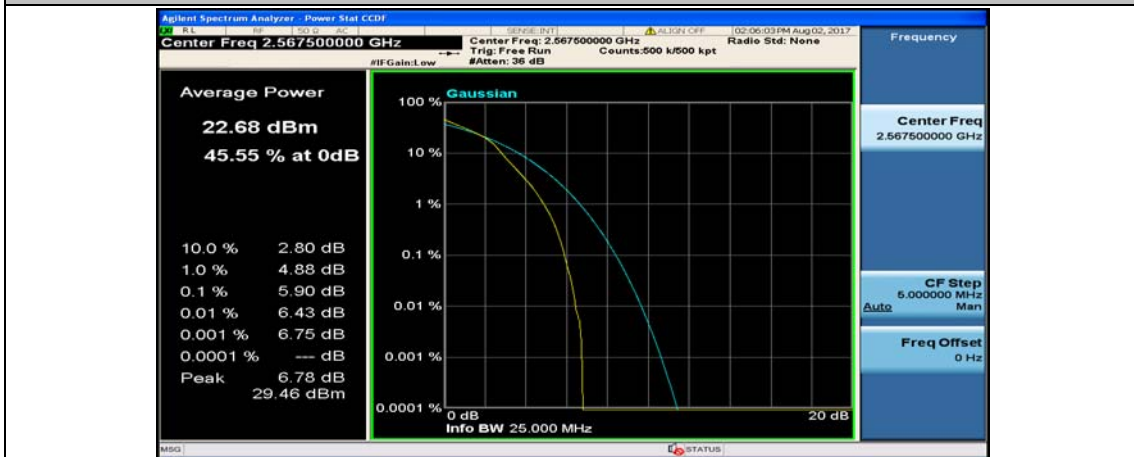
(Channel Bandwidth: 5 MHz)\_HCH\_16QAM\_12RB#0



(Channel Bandwidth: 5 MHz)\_HCH\_16QAM\_12RB#6



(Channel Bandwidth: 5 MHz)\_HCH\_16QAM\_12RB#13

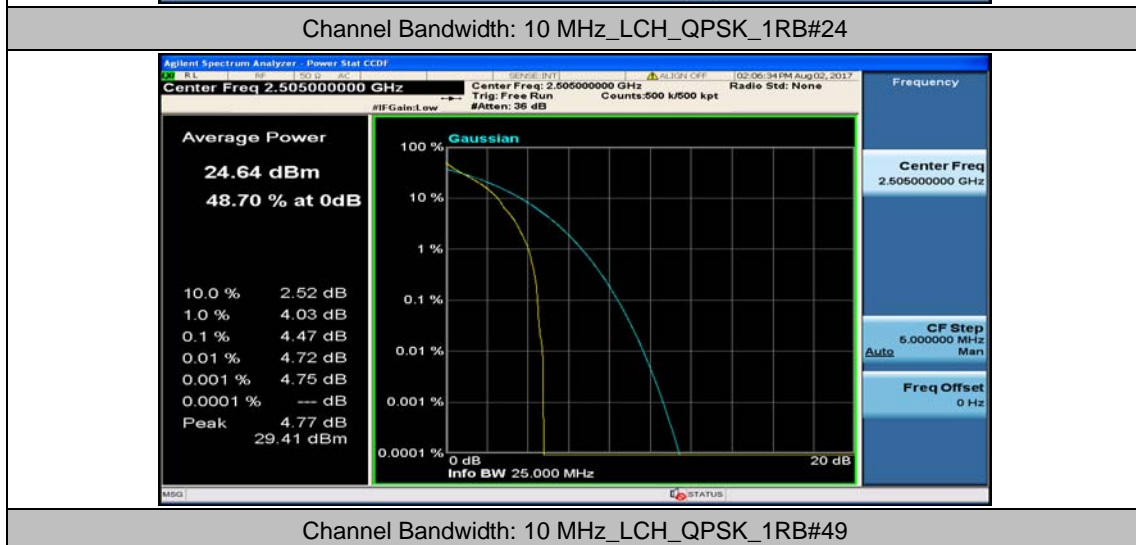
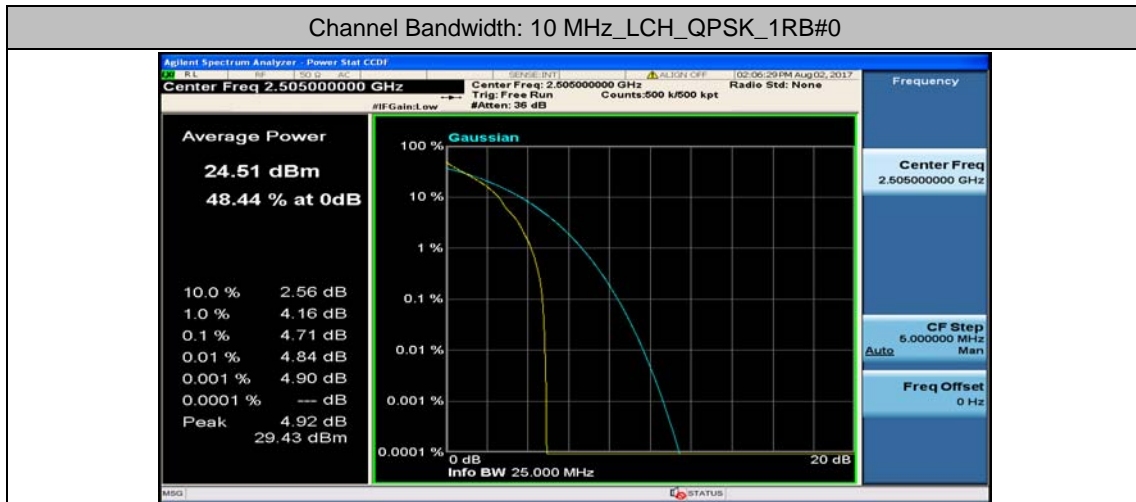


(Channel Bandwidth: 5 MHz)\_HCH\_16QAM\_25RB#0

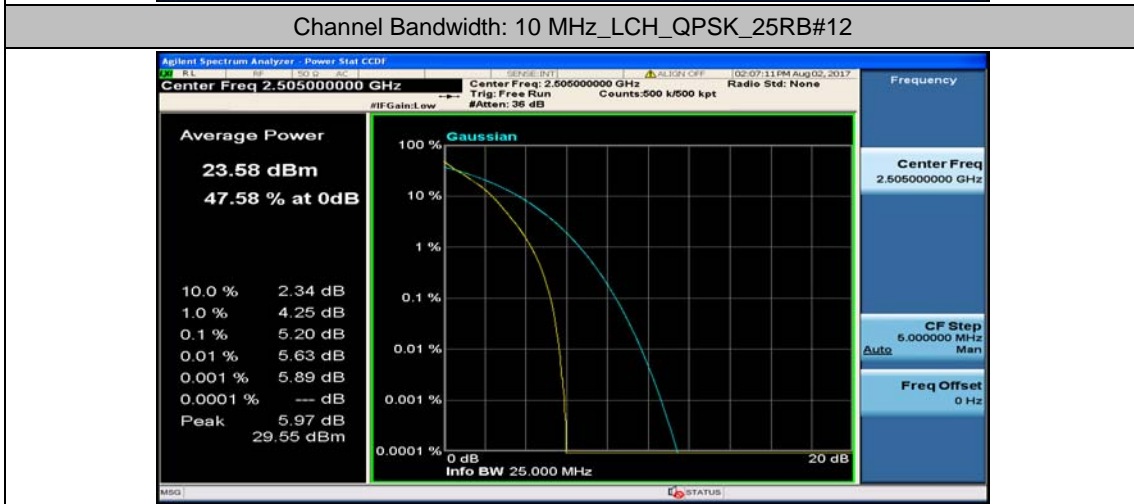
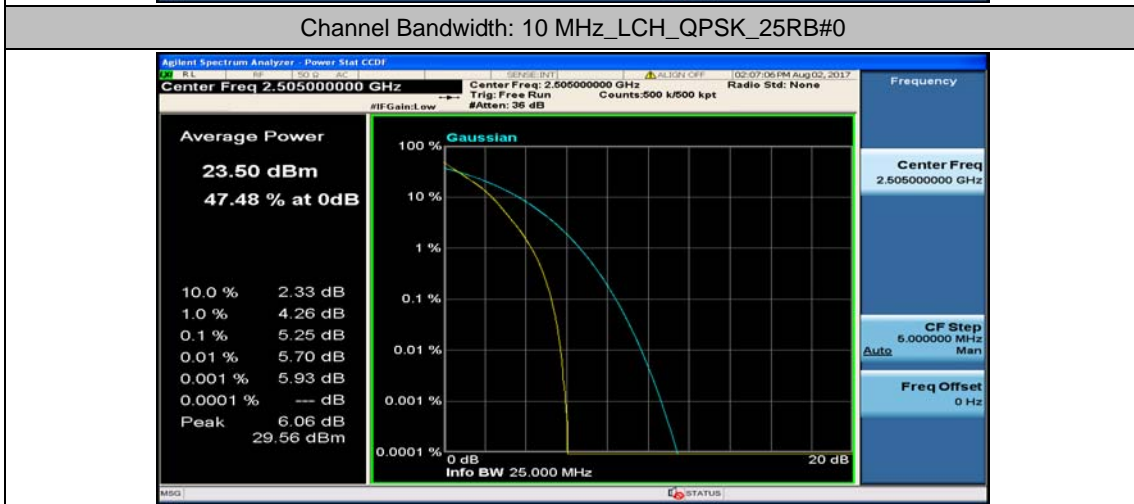


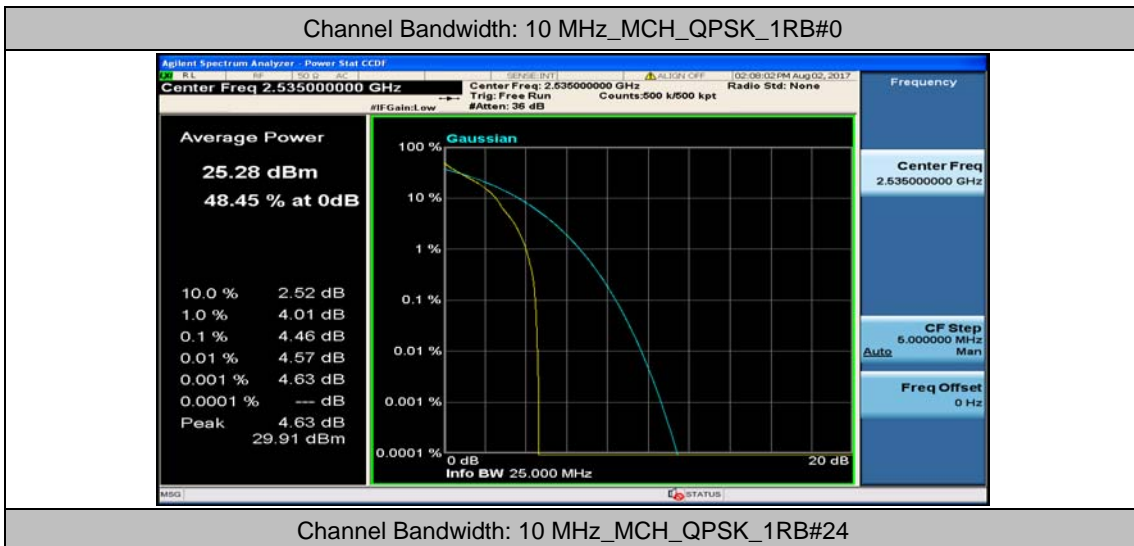
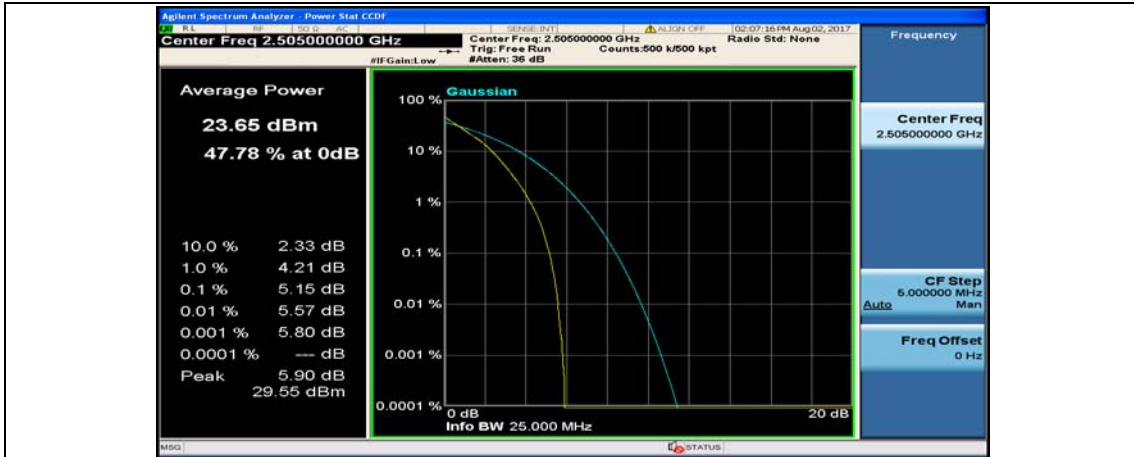


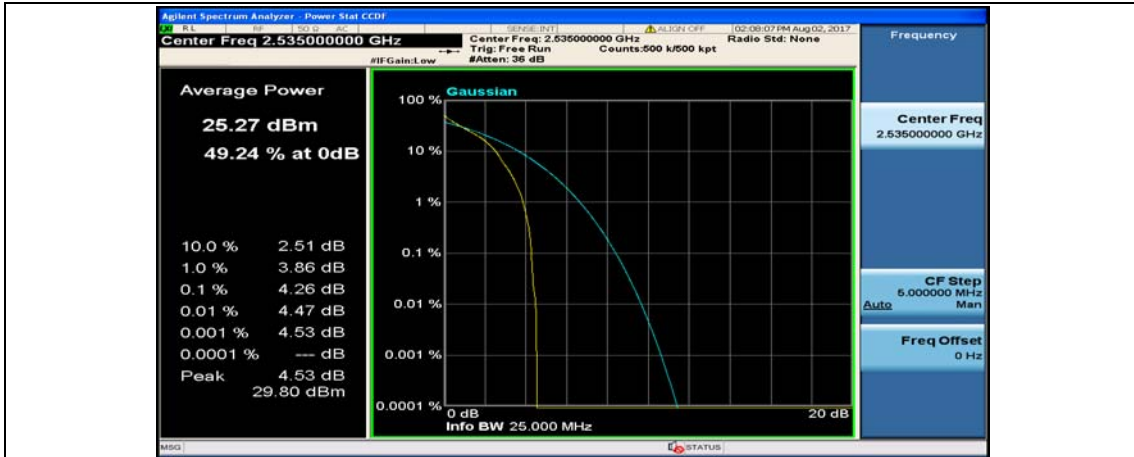
### Channel Bandwidth: 10 MHz



Channel Bandwidth: 10 MHz\_LCH\_QPSK\_1RB#49







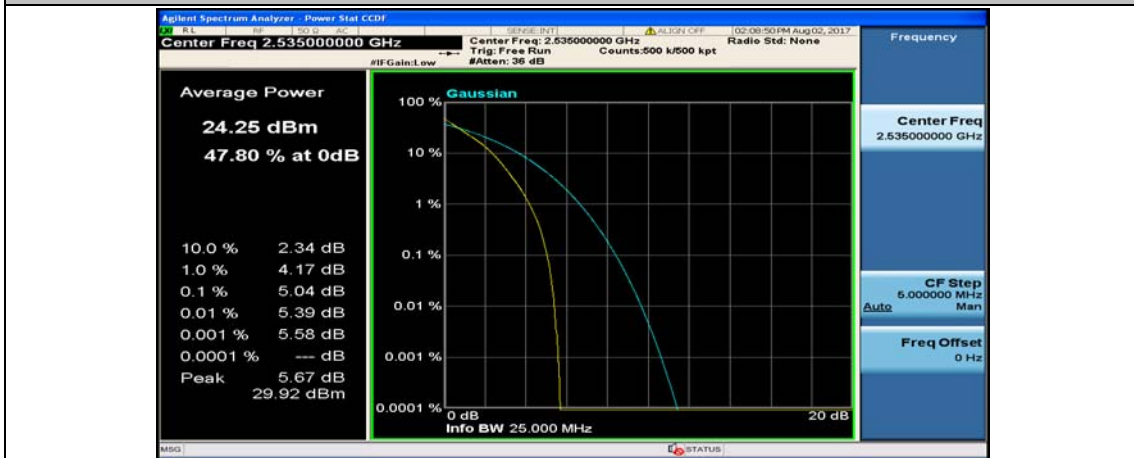
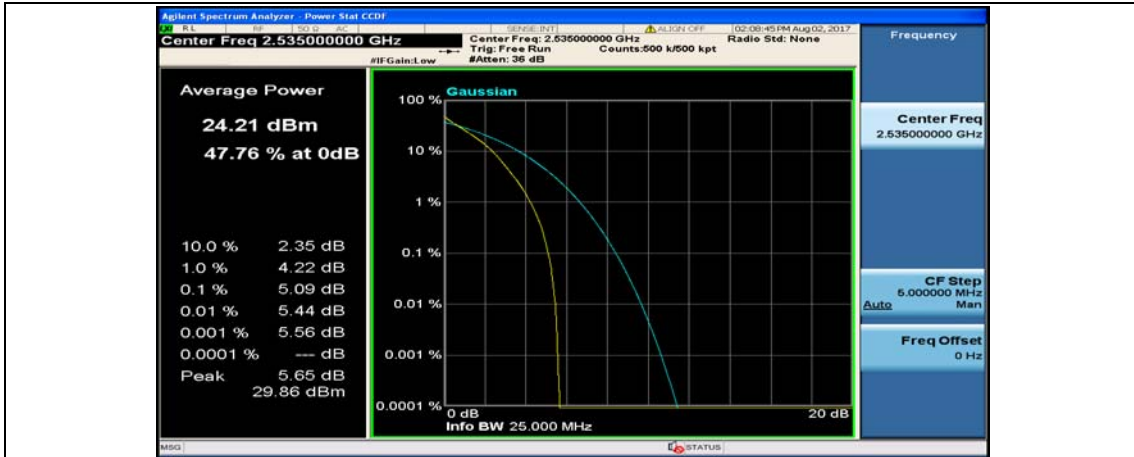
Channel Bandwidth: 10 MHz\_MCH\_QPSK\_1RB#49

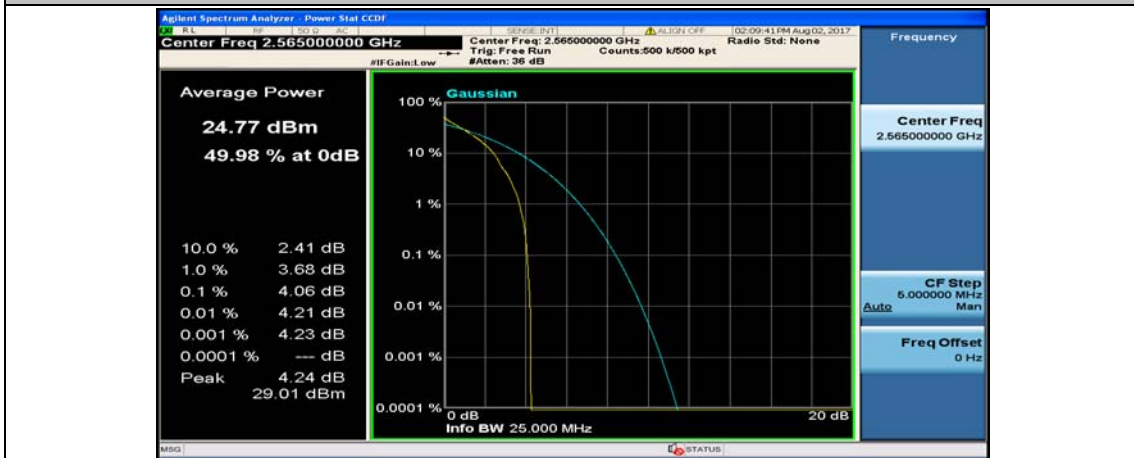


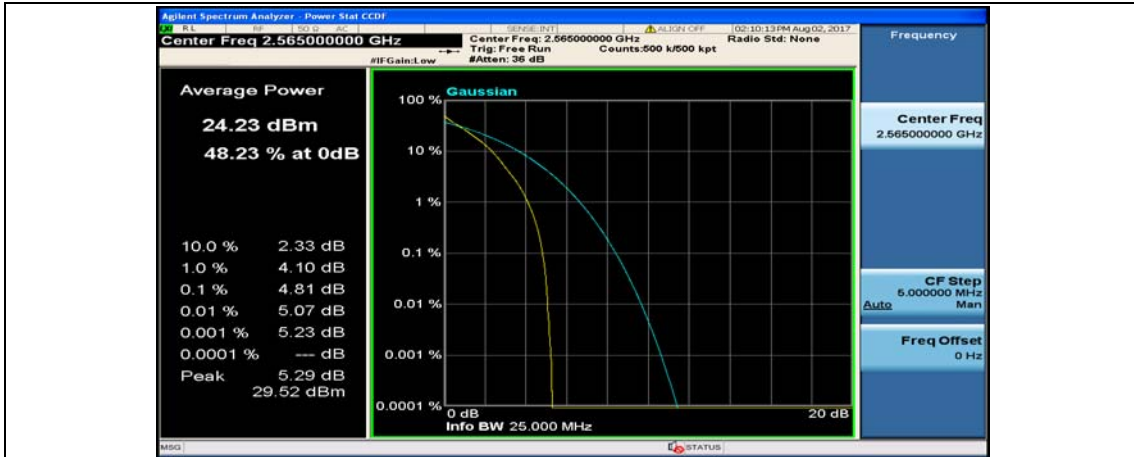
Channel Bandwidth: 10 MHz\_MCH\_QPSK\_25RB#0

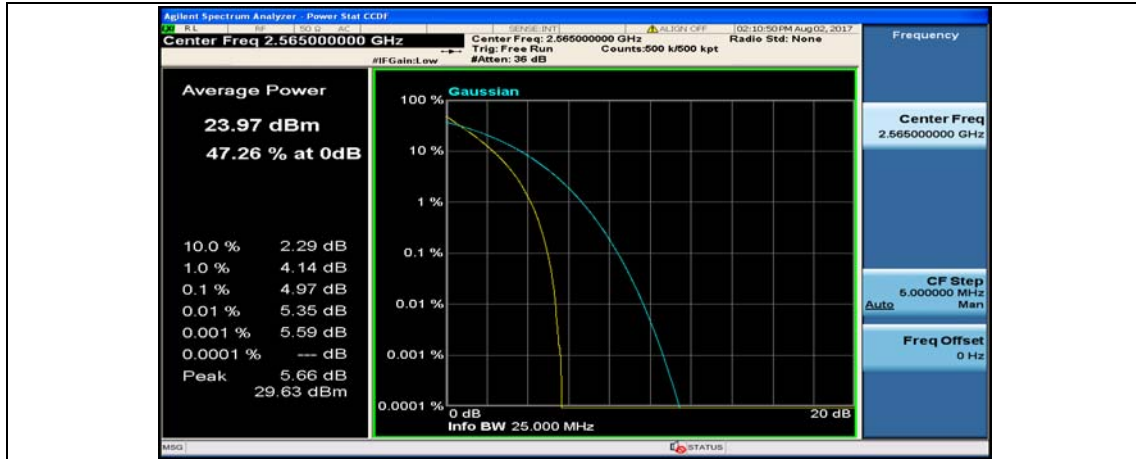


Channel Bandwidth: 10 MHz\_MCH\_QPSK\_25RB#12





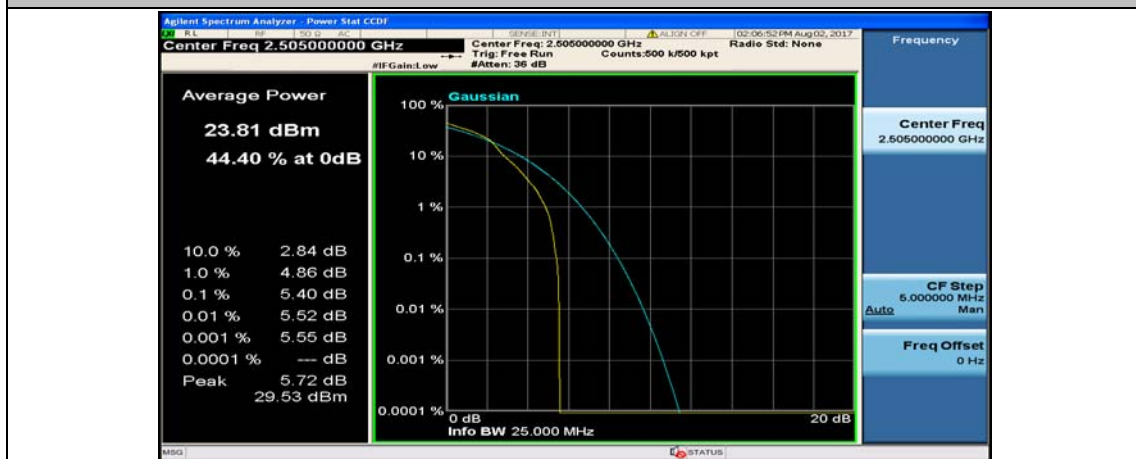




Channel Bandwidth: 10 MHz\_LCH\_16QAM\_1RB#0

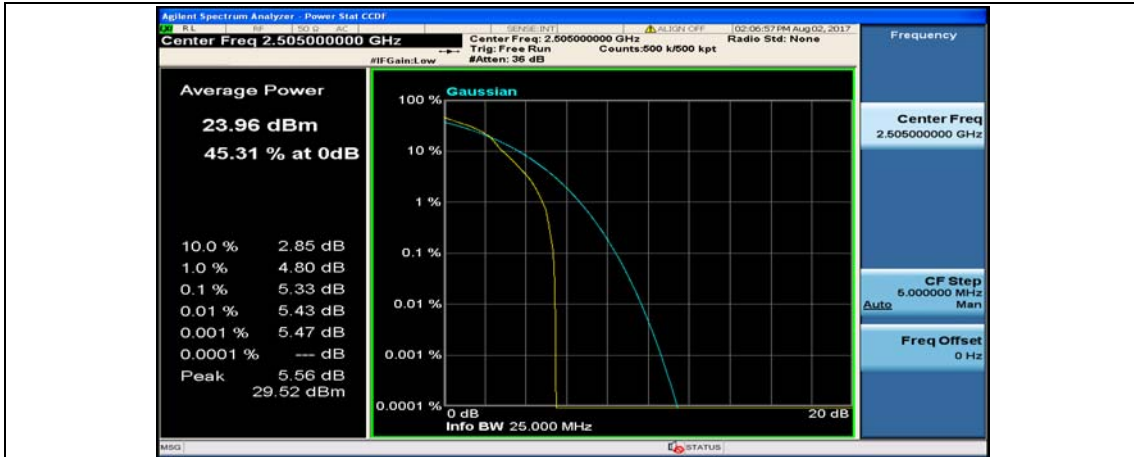


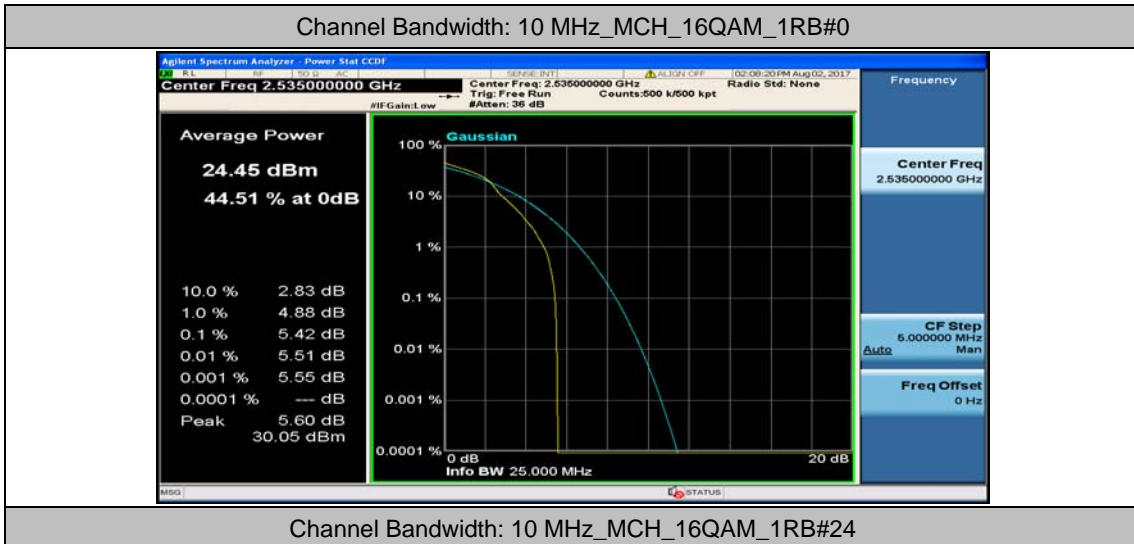
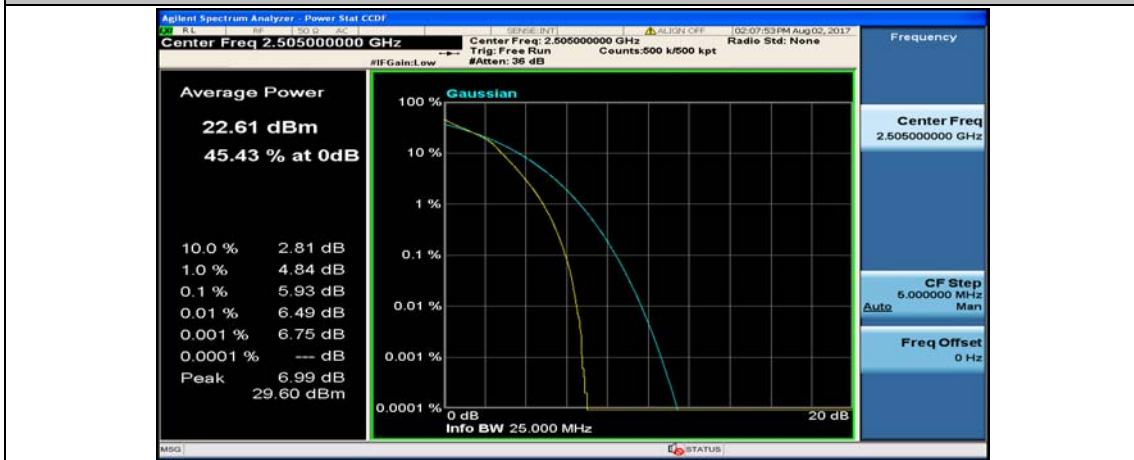
Channel Bandwidth: 10 MHz\_LCH\_16QAM\_1RB#24

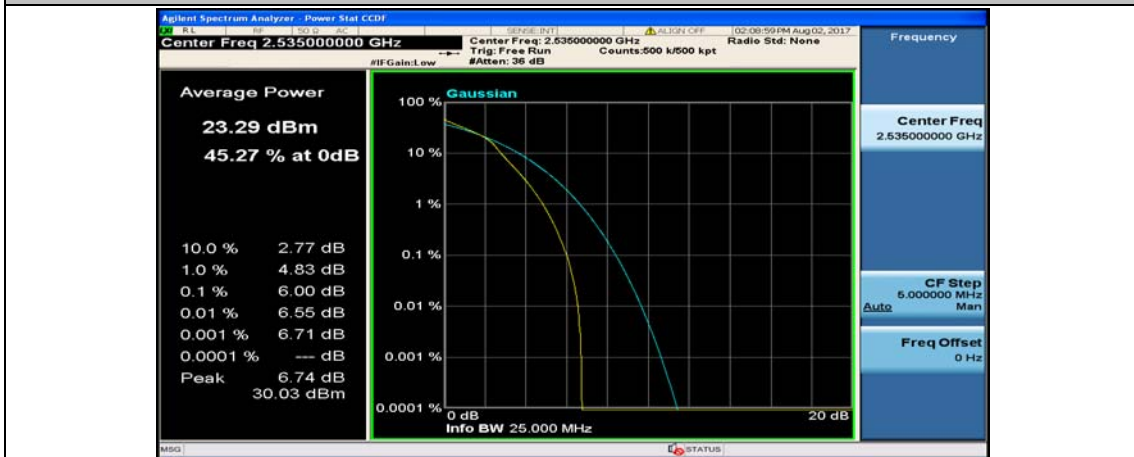
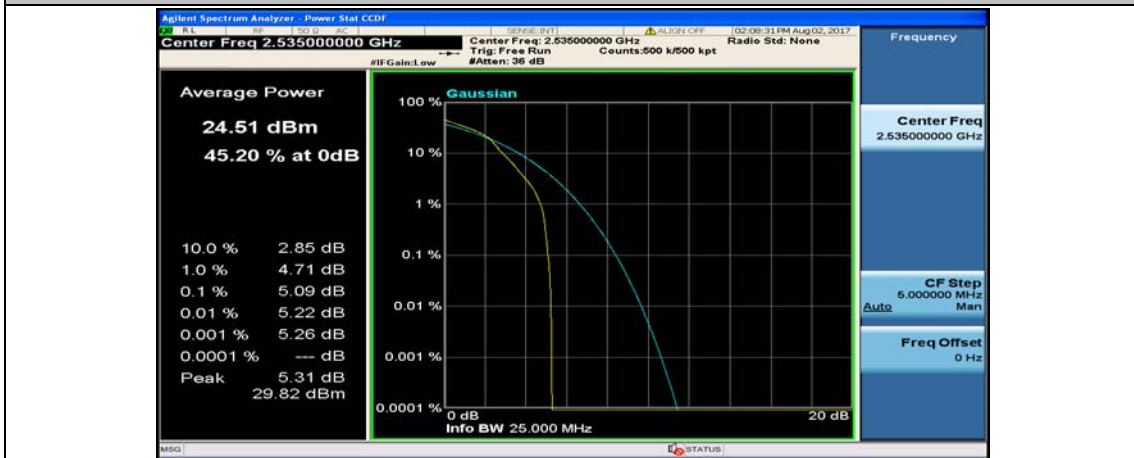
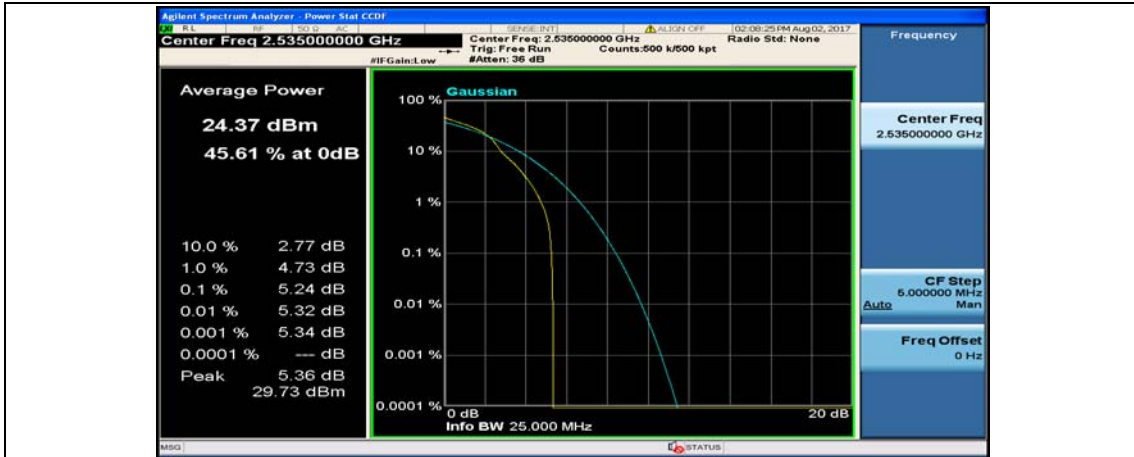


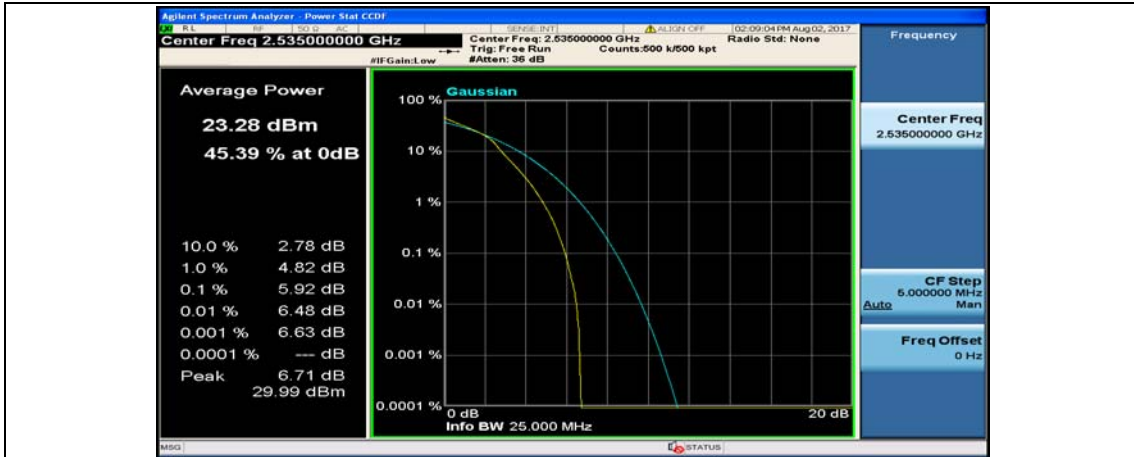
Channel Bandwidth: 10 MHz\_LCH\_16QAM\_1RB#49











Channel Bandwidth: 10 MHz\_MCH\_16QAM\_25RB#25



Channel Bandwidth: 10 MHz\_MCH\_16QAM\_50RB#0



Channel Bandwidth: 10 MHz\_HCH\_16QAM\_1RB#0



Channel Bandwidth: 10 MHz\_HCH\_16QAM\_1RB#24



Channel Bandwidth: 10 MHz\_HCH\_16QAM\_1RB#49



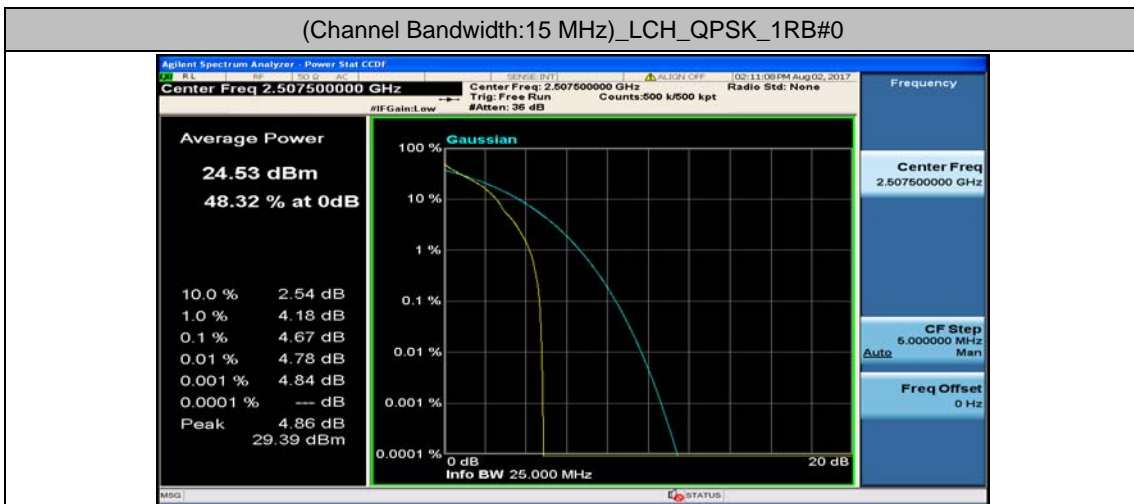
Channel Bandwidth: 10 MHz\_HCH\_16QAM\_25RB#0



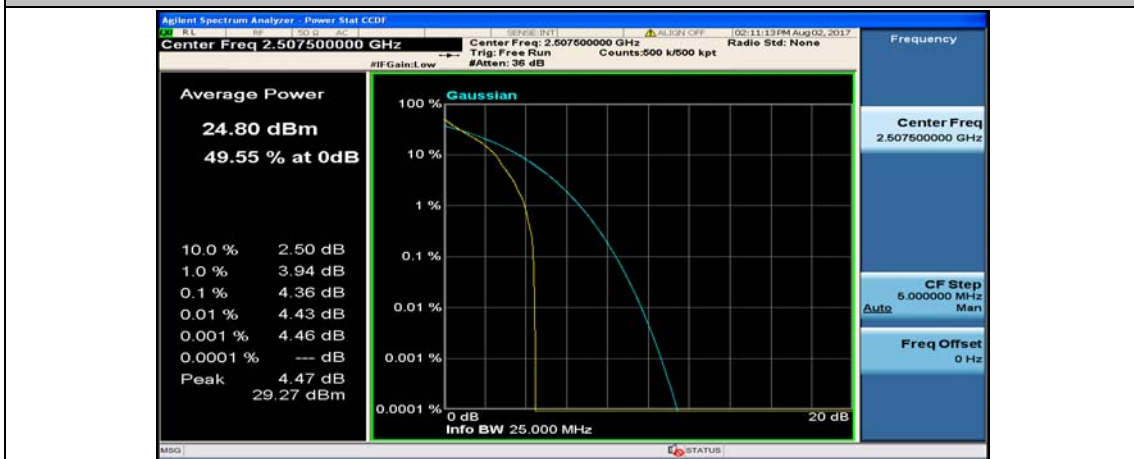


**Channel Bandwidth: 15 MHz**

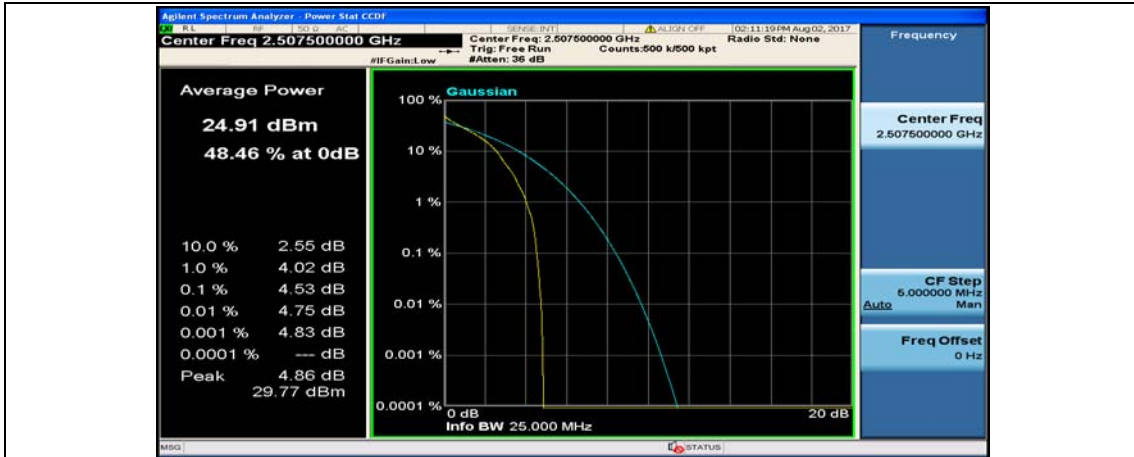
(Channel Bandwidth:15 MHz)\_LCH\_QPSK\_1RB#0



(Channel Bandwidth:15 MHz)\_LCH\_QPSK\_1RB#37



(Channel Bandwidth:15 MHz)\_LCH\_QPSK\_1RB#74



(Channel Bandwidth:15 MHz)\_LCH\_QPSK\_37RB#0

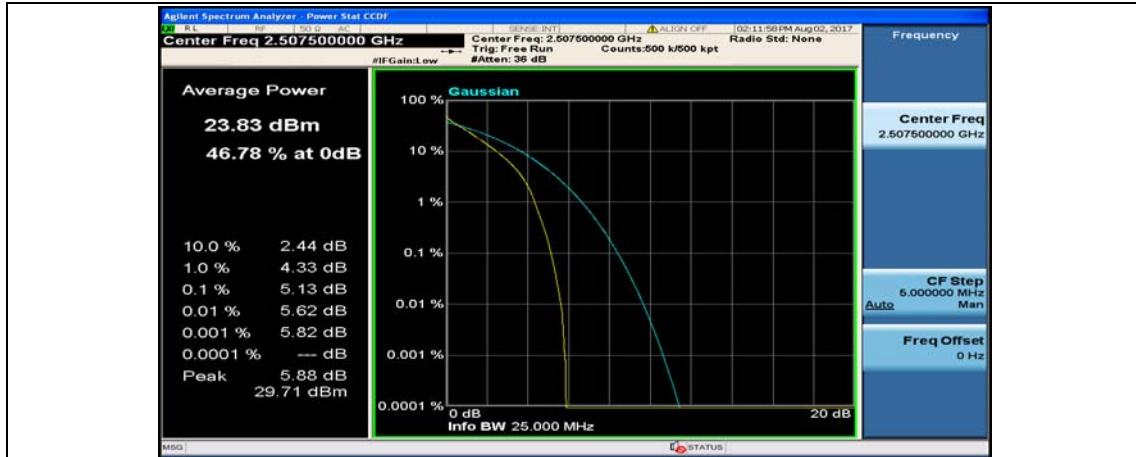


(Channel Bandwidth:15 MHz)\_LCH\_QPSK\_37RB#18

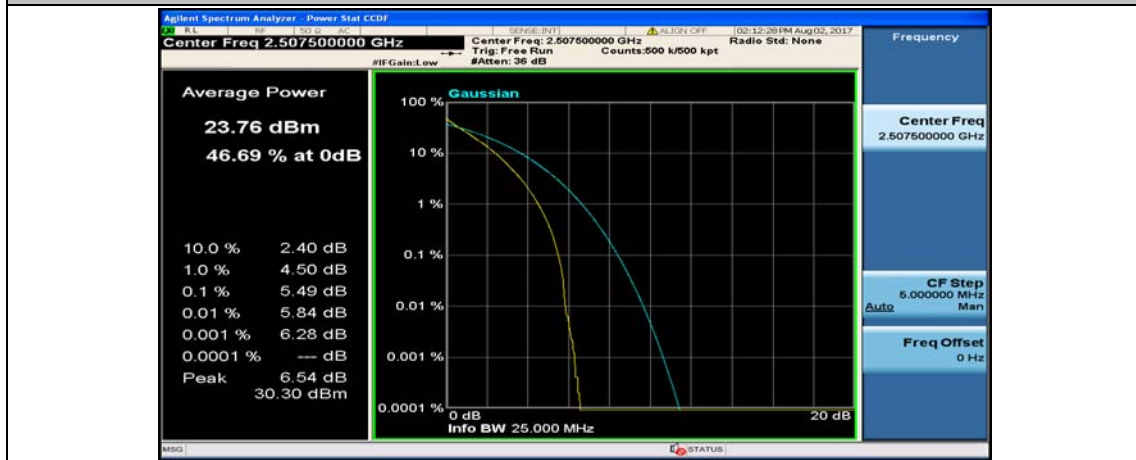


(Channel Bandwidth:15 MHz)\_LCH\_QPSK\_37RB#38





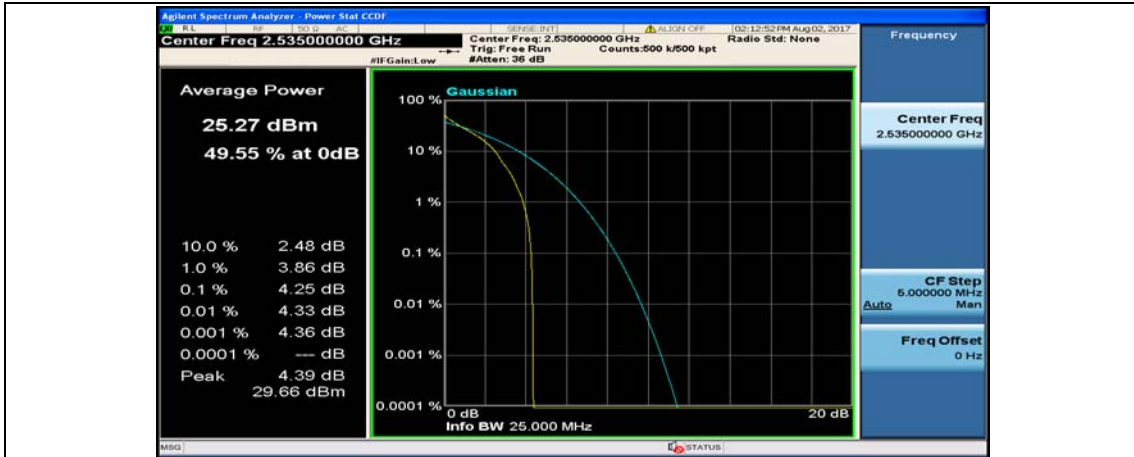
(Channel Bandwidth:15 MHz)\_LCH\_QPSK\_75RB#0



(Channel Bandwidth:15 MHz)\_MCH\_QPSK\_1RB#0



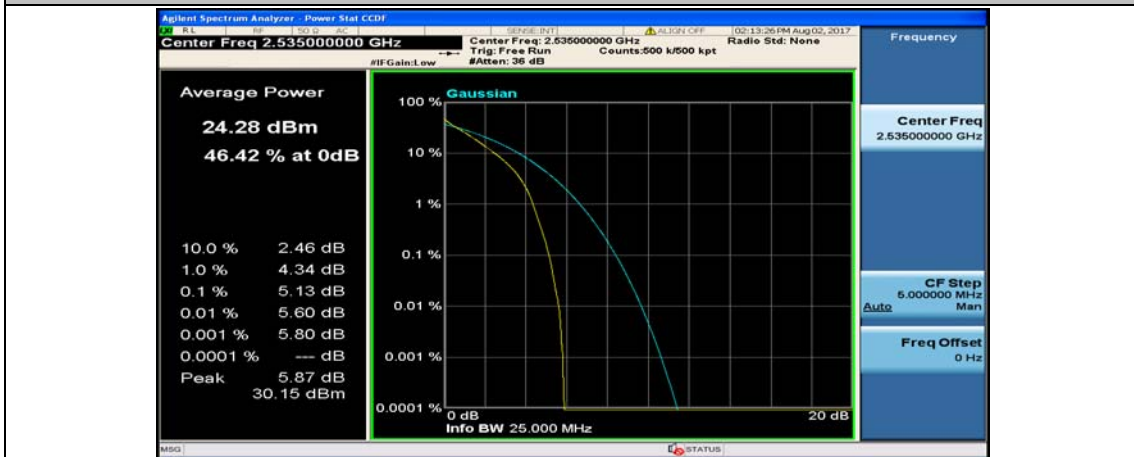
(Channel Bandwidth:15 MHz)\_MCH\_QPSK\_1RB#37



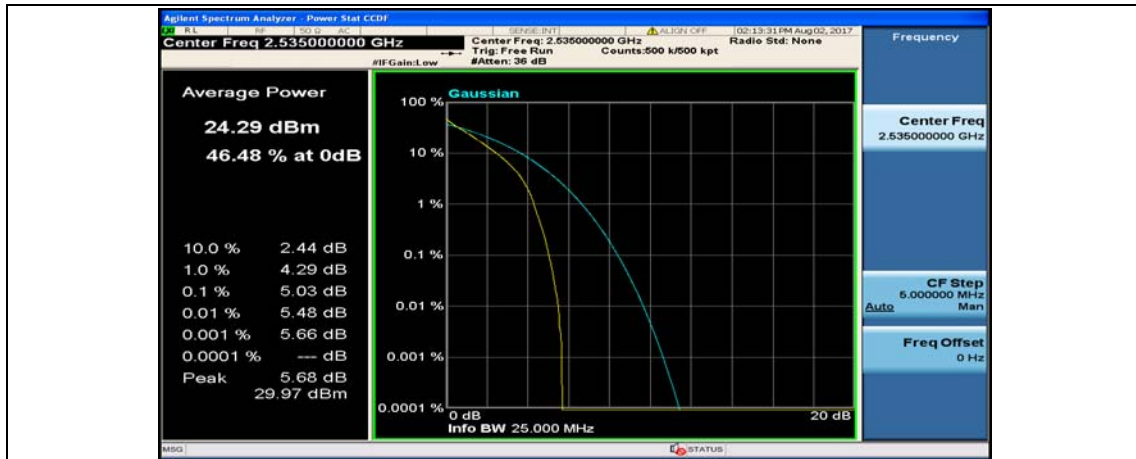
(Channel Bandwidth:15 MHz)\_MCH\_QPSK\_1RB#74



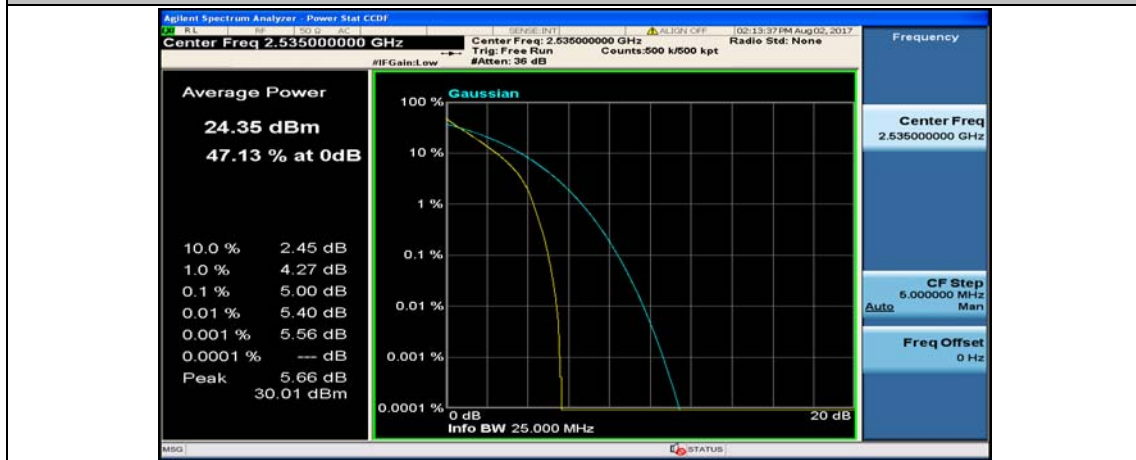
(Channel Bandwidth:15 MHz)\_MCH\_QPSK\_37RB#0



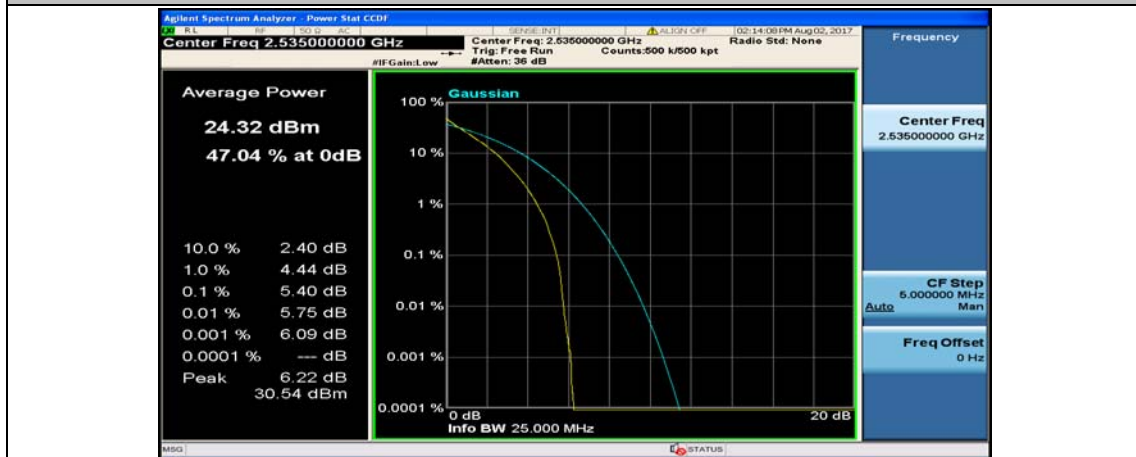
(Channel Bandwidth:15 MHz)\_MCH\_QPSK\_37RB#18



(Channel Bandwidth:15 MHz)\_MCH\_QPSK\_37RB#38



(Channel Bandwidth:15 MHz)\_MCH\_QPSK\_75RB#0



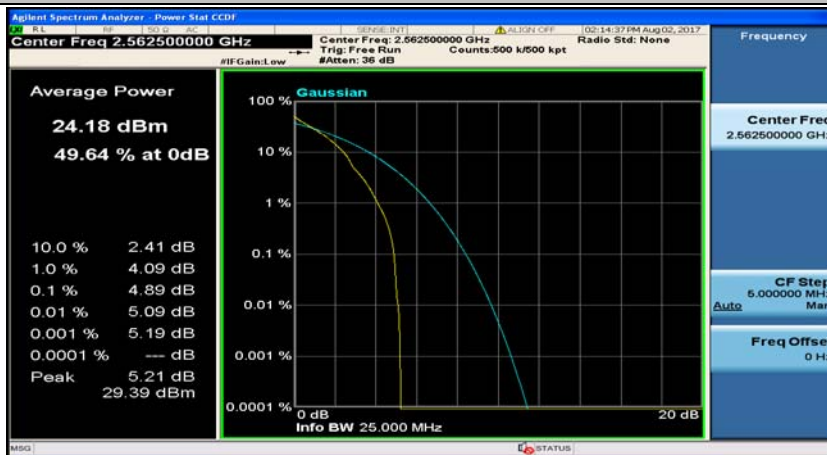
(Channel Bandwidth:15 MHz)\_HCH\_QPSK\_1RB#0



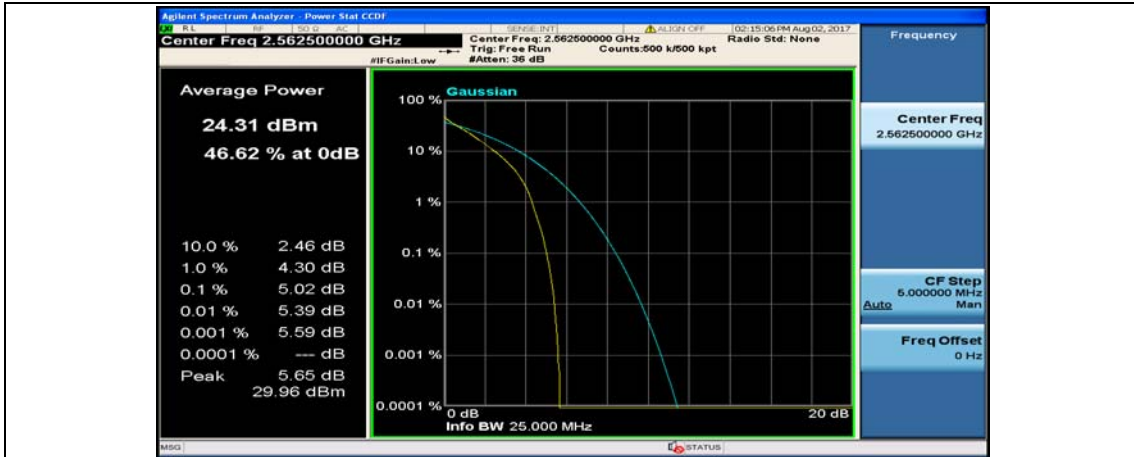
(Channel Bandwidth:15 MHz)\_HCH\_QPSK\_1RB#37



(Channel Bandwidth:15 MHz)\_HCH\_QPSK\_1RB#74



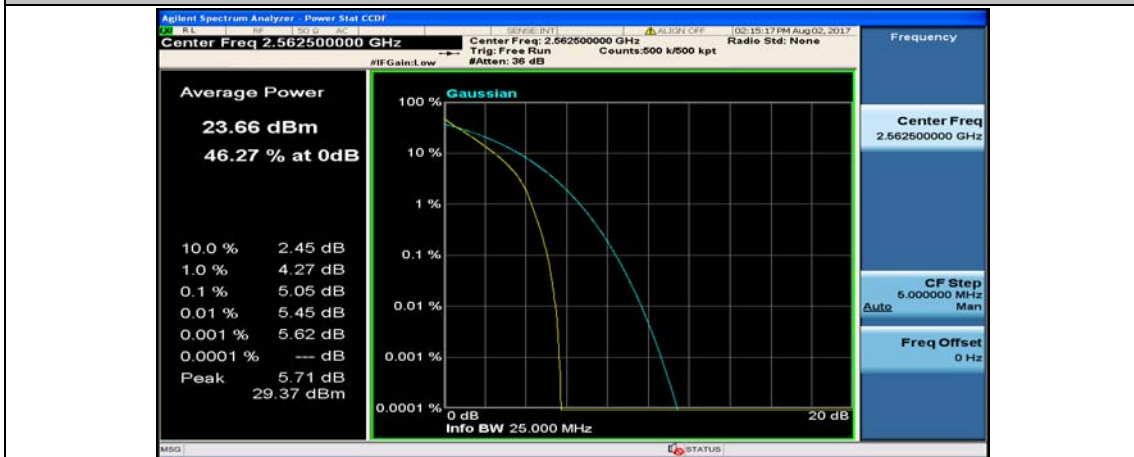
(Channel Bandwidth:15 MHz)\_HCH\_QPSK\_37RB#0



(Channel Bandwidth:15 MHz)\_HCH\_QPSK\_37RB#18



(Channel Bandwidth:15 MHz)\_HCH\_QPSK\_37RB#38



(Channel Bandwidth:15 MHz)\_HCH\_QPSK\_75RB#0



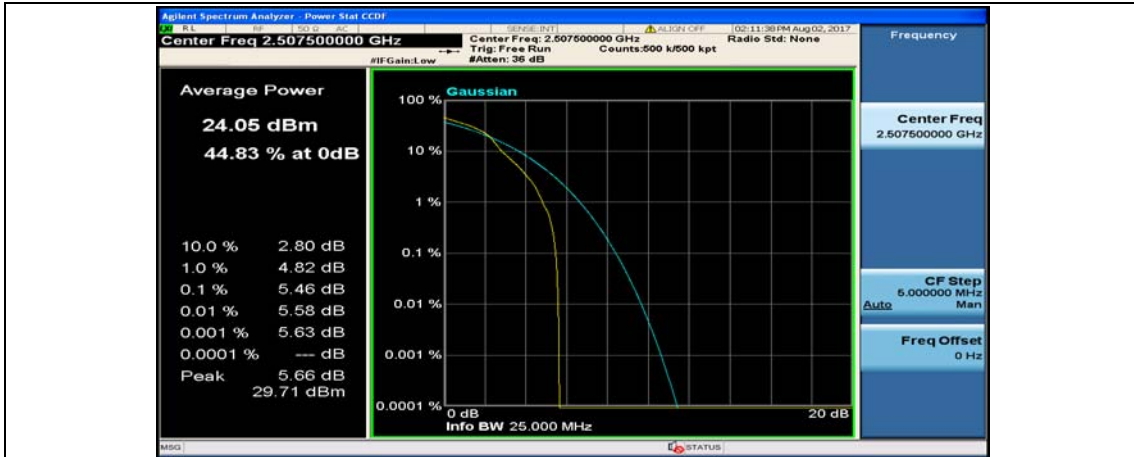
(Channel Bandwidth:15 MHz)\_LCH\_16QAM\_1RB#0



(Channel Bandwidth:15 MHz)\_LCH\_16QAM\_1RB#37



(Channel Bandwidth:15 MHz)\_LCH\_16QAM\_1RB#74



(Channel Bandwidth:15 MHz)\_LCH\_16QAM\_37RB#0



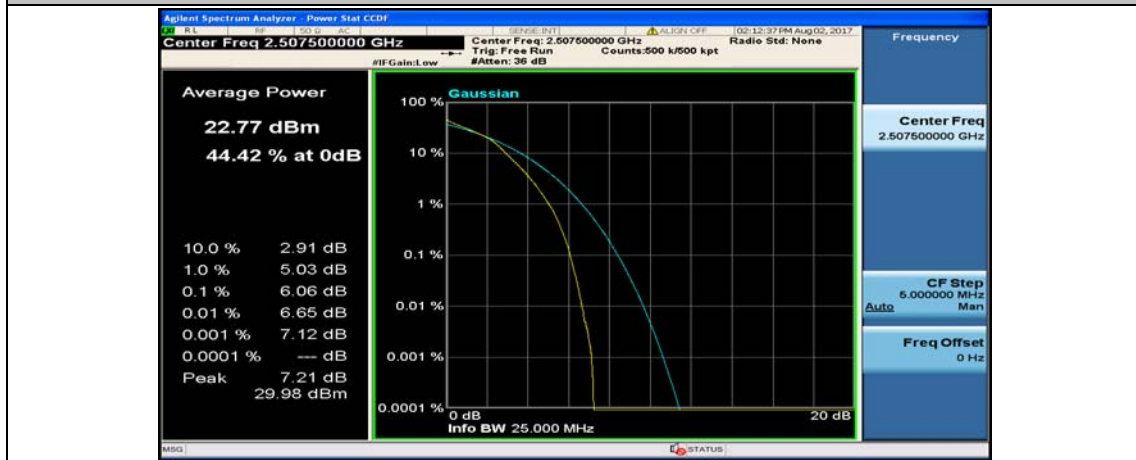
(Channel Bandwidth:15 MHz)\_LCH\_16QAM\_37RB#18



(Channel Bandwidth:15 MHz)\_LCH\_16QAM\_37RB#38



(Channel Bandwidth:15 MHz)\_LCH\_16QAM\_75RB#0

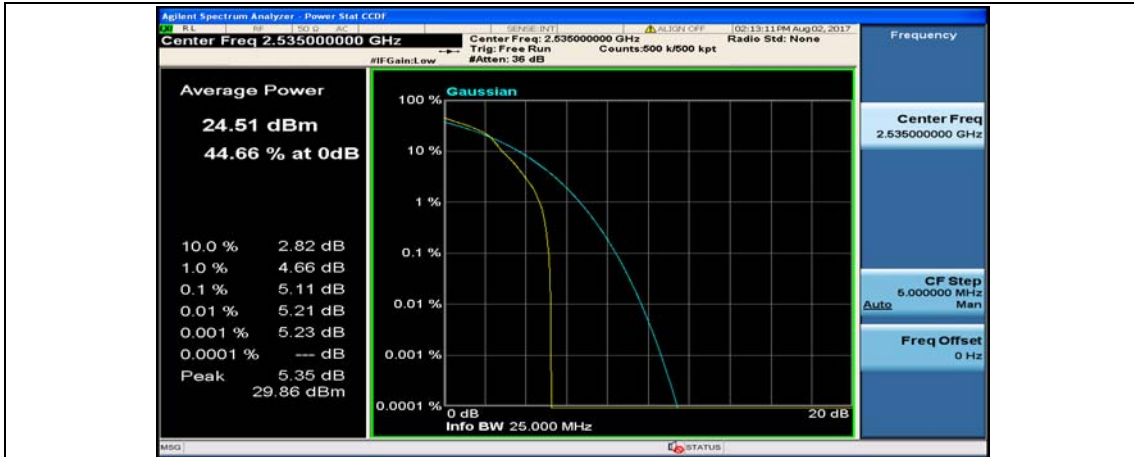


(Channel Bandwidth:15 MHz)\_MCH\_16QAM\_1RB#0

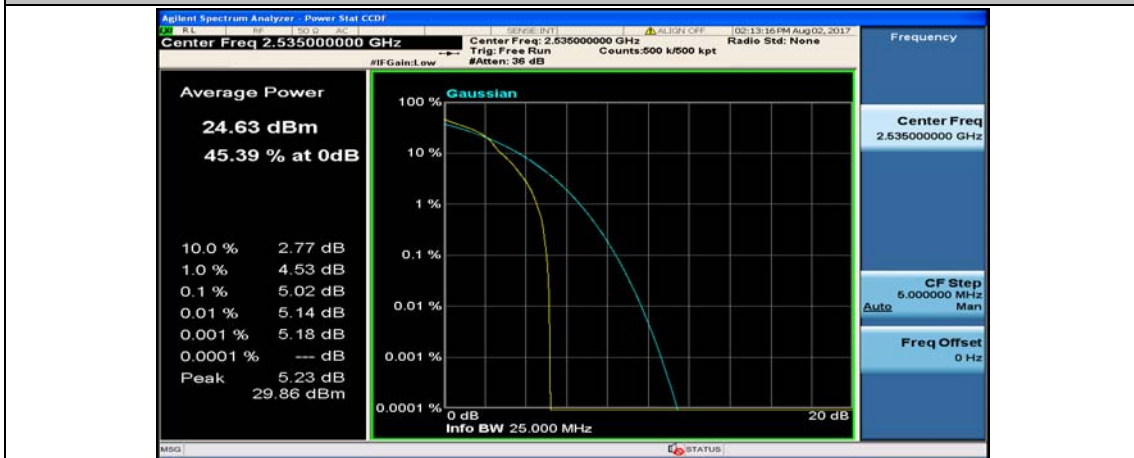


(Channel Bandwidth:15 MHz)\_MCH\_16QAM\_1RB#37





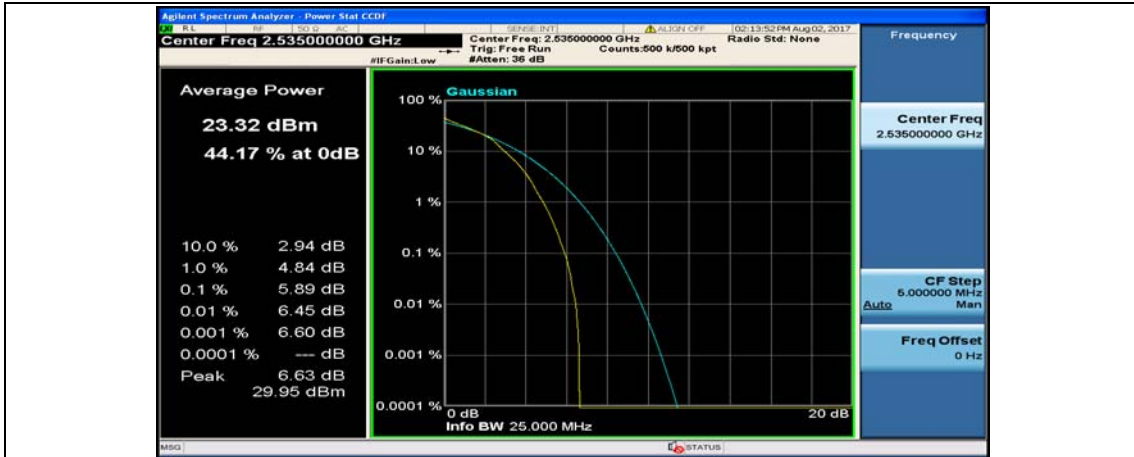
(Channel Bandwidth:15 MHz)\_MCH\_16QAM\_1RB#74



(Channel Bandwidth:15 MHz)\_MCH\_16QAM\_37RB#0



(Channel Bandwidth:15 MHz)\_MCH\_16QAM\_37RB#18



(Channel Bandwidth:15 MHz)\_MCH\_16QAM\_37RB#38



(Channel Bandwidth:15 MHz)\_MCH\_16QAM\_75RB#0

