

## 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	23.82	PASS
		1	12	23.66	PASS
		1	24	23.77	PASS
		12	0	23.74	PASS
		12	6	23.97	PASS
		12	13	23.78	PASS
		25	0	23.87	PASS
	MCH	1	0	24.12	PASS
		1	12	23.85	PASS
		1	24	24.23	PASS
		12	0	23.88	PASS
		12	6	24.23	PASS
		12	13	23.63	PASS
		25	0	24.32	PASS
	HCH	1	0	24.23	PASS
		1	12	23.89	PASS
		1	24	23.85	PASS
		12	0	23.79	PASS
		12	6	23.79	PASS
		12	13	24.10	PASS
		25	0	24.03	PASS
16QAM	LCH	1	0	23.73	PASS
		1	12	23.59	PASS
		1	24	23.55	PASS
		12	0	24.02	PASS
		12	6	23.84	PASS
		12	13	23.94	PASS
		25	0	24.04	PASS
	MCH	1	0	23.75	PASS

		1	12	23.57	PASS
		1	24	24.21	PASS
		12	0	23.84	PASS
		12	6	23.95	PASS
		12	13	23.94	PASS
		25	0	24.20	PASS
	HCH	1	0	23.64	PASS
		1	12	23.95	PASS
		1	24	23.74	PASS
		12	0	24.11	PASS
		12	6	23.84	PASS
		12	13	23.92	PASS
		25	0	24.28	PASS

### Channel Bandwidth: 10 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	24.42	PASS
		1	24	24.21	PASS
		1	49	23.69	PASS
		25	0	23.85	PASS
		25	12	23.76	PASS
		25	25	23.56	PASS
		50	0	24.03	PASS
	MCH	1	0	24.23	PASS
		1	24	24.23	PASS
		1	49	23.74	PASS
		25	0	24.72	PASS
		25	12	25.03	PASS
		25	25	23.62	PASS
		50	0	23.84	PASS
	HCH	1	0	24.12	PASS
		1	24	24.23	PASS
		1	49	24.32	PASS
		25	0	24.42	PASS
		25	12	24.32	PASS
		25	25	24.02	PASS
		50	0	23.87	PASS
16QAM	LCH	1	0	23.93	PASS
		1	24	23.75	PASS
		1	49	23.84	PASS
		25	0	23.95	PASS

		25	12	24.01	PASS	
		25	25	23.84	PASS	
		50	0	23.85	PASS	
	MCH		1	0	23.88	PASS
			1	24	23.94	PASS
			1	49	24.03	PASS
			25	0	23.85	PASS
			25	12	23.81	PASS
			25	25	24.10	PASS
	HCH		50	0	23.85	PASS
			1	0	23.75	PASS
			1	24	23.94	PASS
			1	49	23.85	PASS
			25	0	24.10	PASS
			25	12	23.63	PASS
			25	25	24.00	PASS
			50	0	23.93	PASS

### Channel Bandwidth: 15 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict	
		Size	Offset			
QPSK	LCH	1	0	24.22	PASS	
		1	37	24.29	PASS	
		1	74	25.02	PASS	
		37	0	23.95	PASS	
		37	18	23.74	PASS	
		37	38	23.67	PASS	
		75	0	23.98	PASS	
	MCH		1	0	24.11	PASS
			1	37	23.85	PASS
			1	74	24.97	PASS
			37	0	24.73	PASS
			37	18	23.77	PASS
			37	38	23.81	PASS
			75	0	23.94	PASS
	HCH		1	0	24.01	PASS
			1	37	23.87	PASS
			1	74	24.00	PASS
			37	0	23.76	PASS
			37	18	24.23	PASS
			37	38	23.73	PASS
			75	0	23.77	PASS

16QAM	LCH	1	0	23.84	PASS
		1	37	23.74	PASS
		1	74	24.42	PASS
		37	0	24.12	PASS
		37	18	24.23	PASS
		37	38	24.42	PASS
		75	0	24.23	PASS
	MCH	1	0	23.95	PASS
		1	37	23.85	PASS
		1	74	24.00	PASS
		37	0	23.75	PASS
		37	18	24.32	PASS
		37	38	23.95	PASS
		75	0	24.32	PASS
	HCH	1	0	24.15	PASS
		1	37	24.39	PASS
		1	74	24.04	PASS
		37	0	24.38	PASS
		37	18	24.53	PASS
		37	38	23.68	PASS
		75	0	24.29	PASS

### Channel Bandwidth: 20 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	24.03	PASS
		1	49	24.64	PASS
		1	99	25.24	PASS
		50	0	23.57	PASS
		50	25	23.52	PASS
		50	50	23.84	PASS
		100	0	23.84	PASS
	MCH	1	0	24.33	PASS
		1	49	23.79	PASS
		1	99	23.84	PASS
		50	0	23.84	PASS
		50	25	23.74	PASS
		50	50	23.77	PASS
		100	0	23.83	PASS
	HCH	1	0	24.32	PASS
		1	49	23.80	PASS
		1	99	24.14	PASS

		50	0	24.23	PASS
		50	25	24.00	PASS
		50	50	23.74	PASS
		100	0	23.67	PASS
16QAM	LCH	1	0	23.84	PASS
		1	49	23.96	PASS
		1	99	23.80	PASS
		50	0	24.34	PASS
		50	25	24.23	PASS
		50	50	24.03	PASS
		100	0	24.42	PASS
	MCH	1	0	23.83	PASS
		1	49	24.22	PASS
		1	99	24.23	PASS
		50	0	24.51	PASS
		50	25	24.03	PASS
		50	50	24.08	PASS
		100	0	24.02	PASS
	HCH	1	0	23.79	PASS
		1	49	23.52	PASS
		1	99	23.22	PASS
		50	0	24.32	PASS
		50	25	24.21	PASS
		50	50	24.31	PASS
		100	0	23.87	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	2.95	<13	PASS
		1	12	3.07	<13	PASS
		1	24	3.2	<13	PASS
		12	0	3.59	<13	PASS
		12	6	3.65	<13	PASS
		12	13	3.81	<13	PASS
		25	0	3.83	<13	PASS
	MCH	1	0	3.04	<13	PASS
		1	12	3.28	<13	PASS
		1	24	3.44	<13	PASS
		12	0	3.65	<13	PASS
		12	6	3.71	<13	PASS
		12	13	3.84	<13	PASS
		25	0	3.93	<13	PASS
	HCH	1	0	2.9	<13	PASS
		1	12	3.41	<13	PASS
		1	24	3.68	<13	PASS
		12	0	3.35	<13	PASS
		12	6	3.58	<13	PASS
		12	13	3.83	<13	PASS
		25	0	3.78	<13	PASS
16QAM	LCH	1	0	3.55	<13	PASS
		1	12	3.86	<13	PASS
		1	24	3.94	<13	PASS
		12	0	4.38	<13	PASS
		12	6	4.45	<13	PASS
		12	13	4.61	<13	PASS
		25	0	4.7	<13	PASS
	MCH	1	0	3.96	<13	PASS
		1	12	3.97	<13	PASS
		1	24	4.09	<13	PASS

		12	0	4.57	<13	PASS
		12	6	4.6	<13	PASS
		12	13	4.73	<13	PASS
		25	0	4.82	<13	PASS
	HCH	1	0	3.64	<13	PASS
		1	12	4.15	<13	PASS
		1	24	4.4	<13	PASS
		12	0	4.14	<13	PASS
		12	6	4.37	<13	PASS
		12	13	4.64	<13	PASS
		25	0	4.53	<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	3.1	<13	PASS
		1	24	3.31	<13	PASS
		1	49	3.69	<13	PASS
		25	0	3.66	<13	PASS
		25	12	3.83	<13	PASS
		25	25	4.03	<13	PASS
		50	0	4.11	<13	PASS
	MCH	1	0	2.87	<13	PASS
		1	24	3.29	<13	PASS
		1	49	3.89	<13	PASS
		25	0	3.6	<13	PASS
		25	12	3.67	<13	PASS
		25	25	3.88	<13	PASS
		50	0	3.92	<13	PASS
	HCH	1	0	2.32	<13	PASS
		1	24	2.92	<13	PASS
		1	49	3.81	<13	PASS
		25	0	2.75	<13	PASS
		25	12	3.11	<13	PASS
		25	25	3.68	<13	PASS
		50	0	3.29	<13	PASS
16QAM	LCH	1	0	3.92	<13	PASS
		1	24	4.03	<13	PASS
		1	49	4.44	<13	PASS
		25	0	4.55	<13	PASS

		25	12	4.69	<13	PASS	
		25	25	4.99	<13	PASS	
		50	0	4.88	<13	PASS	
	MCH	1	0	3.5	<13	PASS	
		1	24	4.02	<13	PASS	
		1	49	4.64	<13	PASS	
		25	0	4.5	<13	PASS	
		25	12	4.61	<13	PASS	
		25	25	4.87	<13	PASS	
		50	0	4.8	<13	PASS	
		HCH	1	0	3.01	<13	PASS
			1	24	3.65	<13	PASS
	1		49	4.72	<13	PASS	
	25		0	3.48	<13	PASS	
	25		12	3.86	<13	PASS	
	25		25	4.45	<13	PASS	
	50		0	4	<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	2.96	<13	PASS
		1	37	3.48	<13	PASS
		1	74	3.73	<13	PASS
		37	0	3.73	<13	PASS
		37	18	3.96	<13	PASS
		37	38	4.22	<13	PASS
		75	0	4.62	<13	PASS
	MCH	1	0	2.7	<13	PASS
		1	37	3.36	<13	PASS
		1	74	3.84	<13	PASS
		37	0	3.47	<13	PASS
		37	18	3.68	<13	PASS
		37	38	3.98	<13	PASS
		75	0	4.35	<13	PASS
	HCH	1	0	2.55	<13	PASS
		1	37	2.59	<13	PASS
		1	74	3.73	<13	PASS
		37	0	2.99	<13	PASS
		37	18	2.96	<13	PASS



		37	38	3.34	<13	PASS
		75	0	3.85	<13	PASS
16QAM	LCH	1	0	3.62	<13	PASS
		1	37	4.23	<13	PASS
		1	74	4.15	<13	PASS
		37	0	4.64	<13	PASS
		37	18	4.9	<13	PASS
		37	38	5.19	<13	PASS
		75	0	5.38	<13	PASS
		MCH	1	0	3.17	<13
	1		37	4.04	<13	PASS
	1		74	4.63	<13	PASS
	37		0	4.4	<13	PASS
	37		18	4.6	<13	PASS
	37		38	4.9	<13	PASS
	75		0	5.09	<13	PASS
	HCH	1	0	3	<13	PASS
		1	37	3.32	<13	PASS
		1	74	4.47	<13	PASS
		37	0	3.92	<13	PASS
		37	18	3.86	<13	PASS
		37	38	4.1	<13	PASS
		75	0	4.58	<13	PASS

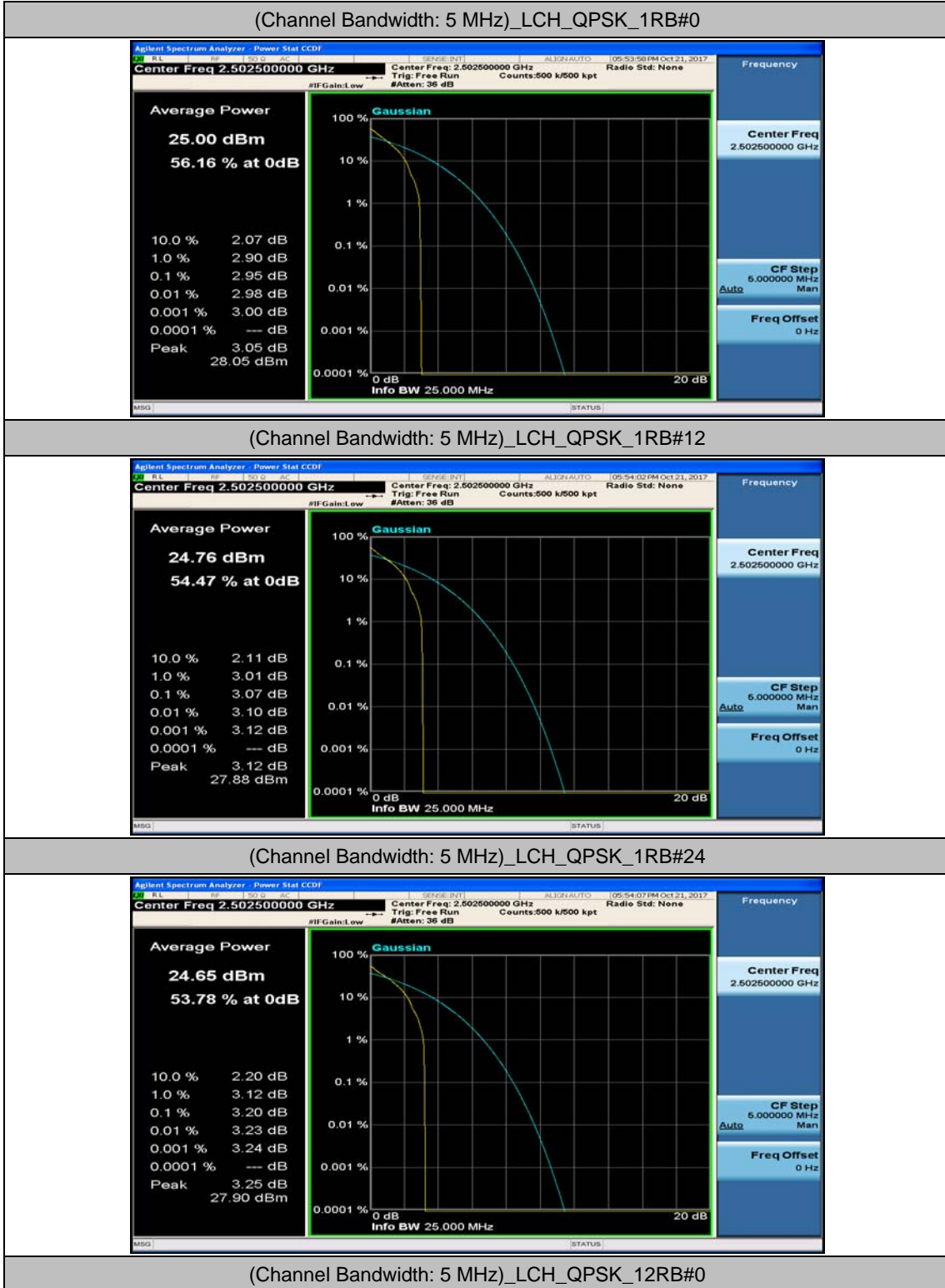
### Channel Bandwidth: 20 MHz

Channel Bandwidth: 20 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	LCH	1	0	3.11	<13	PASS
		1	49	3.54	<13	PASS
		1	99	3.5	<13	PASS
		50	0	3.93	<13	PASS
		50	25	4.11	<13	PASS
		50	50	4.27	<13	PASS
		100	0	4.7	<13	PASS
	MCH	1	0	2.84	<13	PASS
		1	49	3.35	<13	PASS
		1	99	4.01	<13	PASS
		50	0	3.65	<13	PASS
		50	25	3.65	<13	PASS
		50	50	4.17	<13	PASS

	HCH	100	0	4.52	<13	PASS
		1	0	3.43	<13	PASS
		1	49	2.32	<13	PASS
		1	99	3.8	<13	PASS
		50	0	3.61	<13	PASS
		50	25	3.07	<13	PASS
		50	50	3.25	<13	PASS
		100	0	4.14	<13	PASS
16QAM	LCH	1	0	3.81	<13	PASS
		1	49	4.39	<13	PASS
		1	99	4.32	<13	PASS
		50	0	4.8	<13	PASS
		50	25	5.05	<13	PASS
		50	50	5.22	<13	PASS
		100	0	5.46	<13	PASS
	MCH	1	0	3.4	<13	PASS
		1	49	3.94	<13	PASS
		1	99	4.68	<13	PASS
		50	0	4.5	<13	PASS
		50	25	4.54	<13	PASS
		50	50	4.97	<13	PASS
		100	0	5.2	<13	PASS
	HCH	1	0	4.05	<13	PASS
		1	49	2.85	<13	PASS
		1	99	4.48	<13	PASS
		50	0	4.49	<13	PASS
		50	25	3.96	<13	PASS
		50	50	3.99	<13	PASS
		100	0	4.86	<13	PASS

## Test Graphs

### Channel Bandwidth: 5 MHz





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



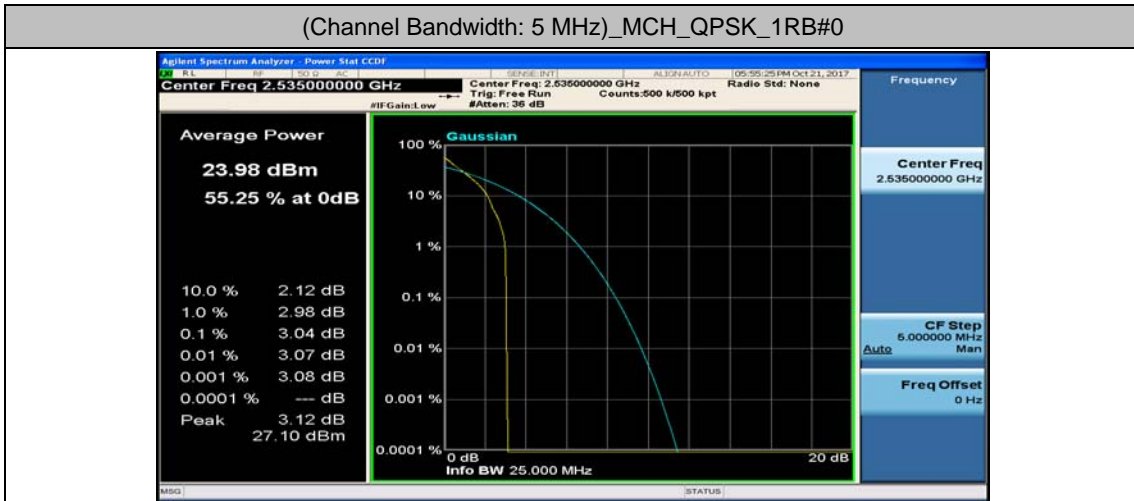
(Channel Bandwidth: 5 MHz)\_LCH\_QPSK\_12RB#13



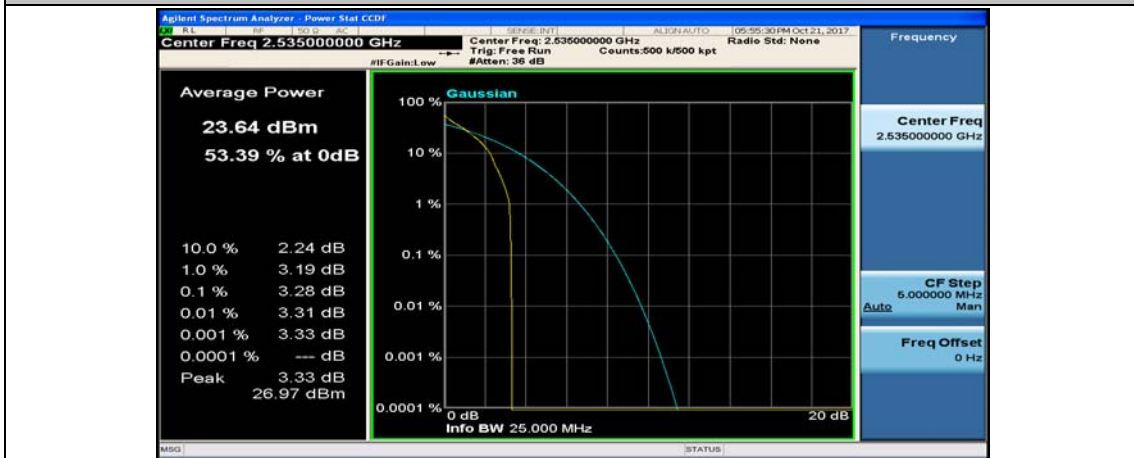
(Channel Bandwidth: 5 MHz)\_LCH\_QPSK\_25RB#0



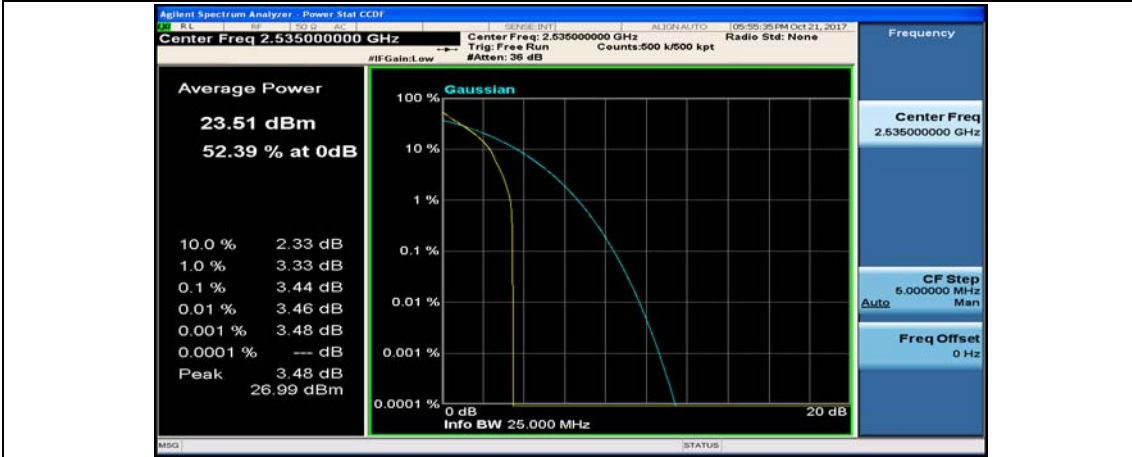
(Channel Bandwidth: 5 MHz)\_MCH\_QPSK\_1RB#0



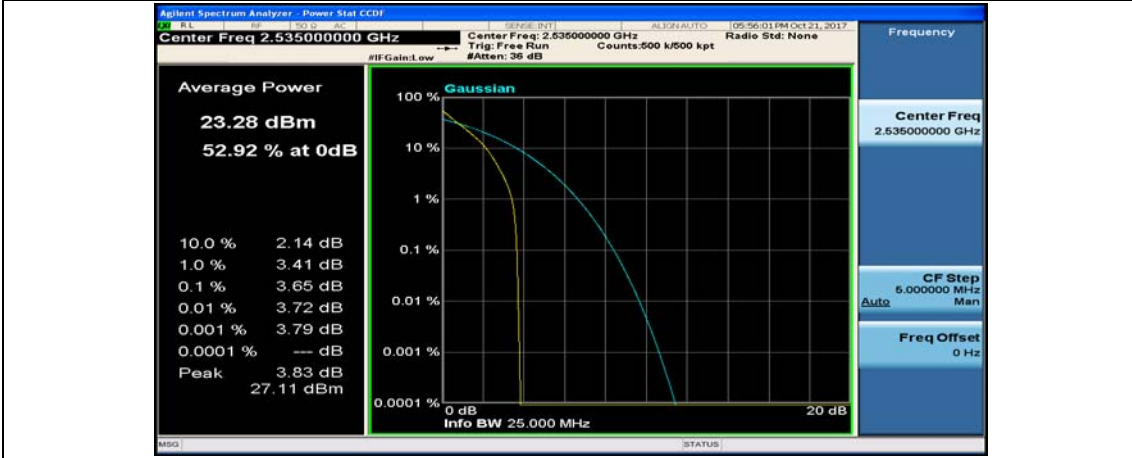
(Channel Bandwidth: 5 MHz)\_MCH\_QPSK\_1RB#12



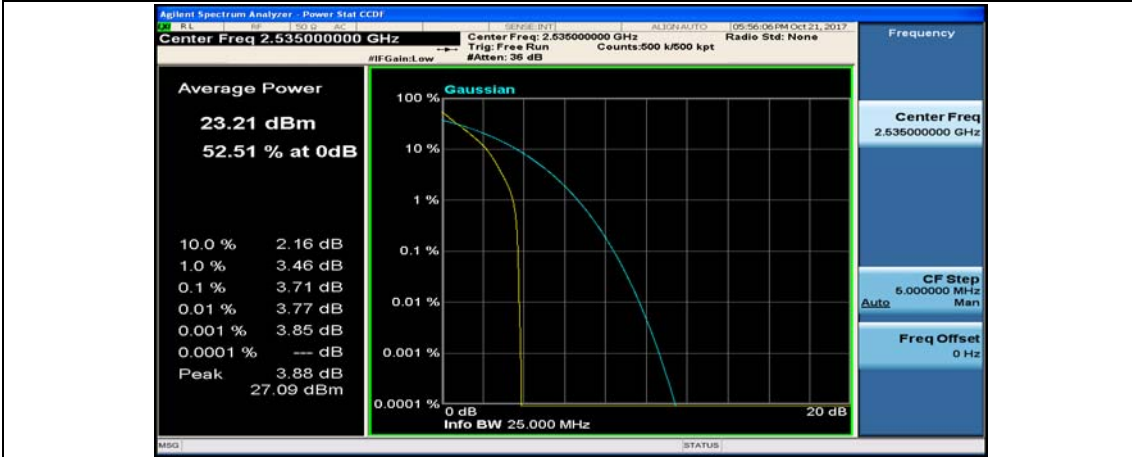
(Channel Bandwidth: 5 MHz)\_MCH\_QPSK\_1RB#24



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



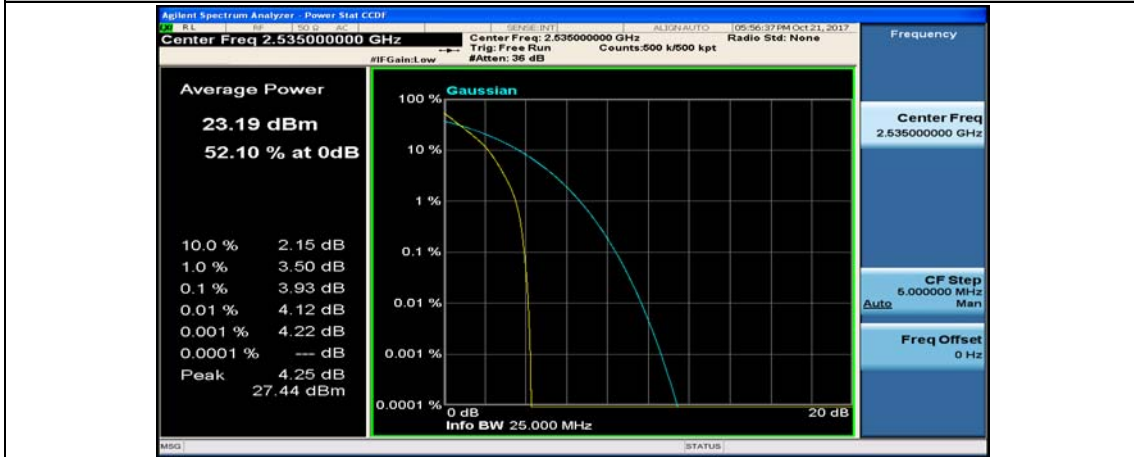
(Channel Bandwidth: 5 MHz)\_MCH\_QPSK\_12RB#6



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



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



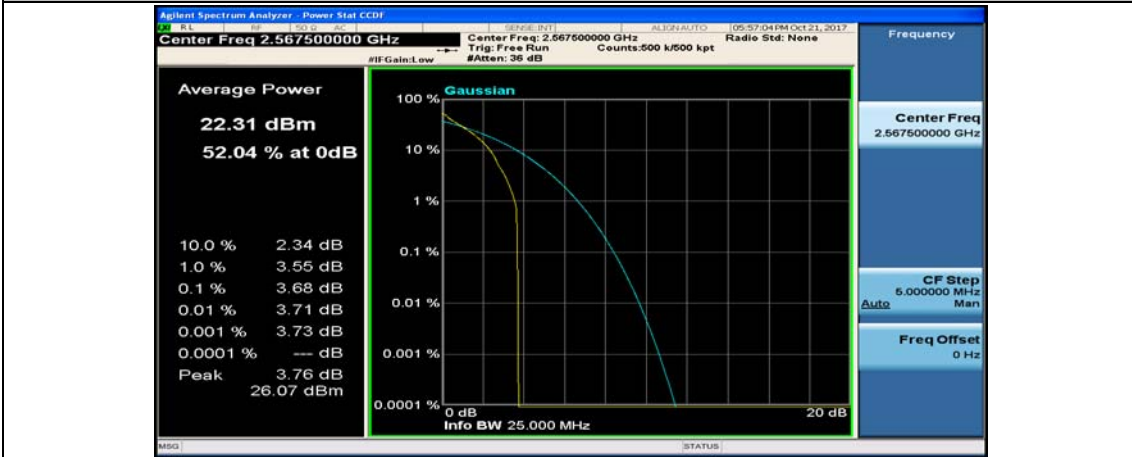
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(Channel Bandwidth: 5 MHz)\_HCH\_QPSK\_1RB#12



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



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



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





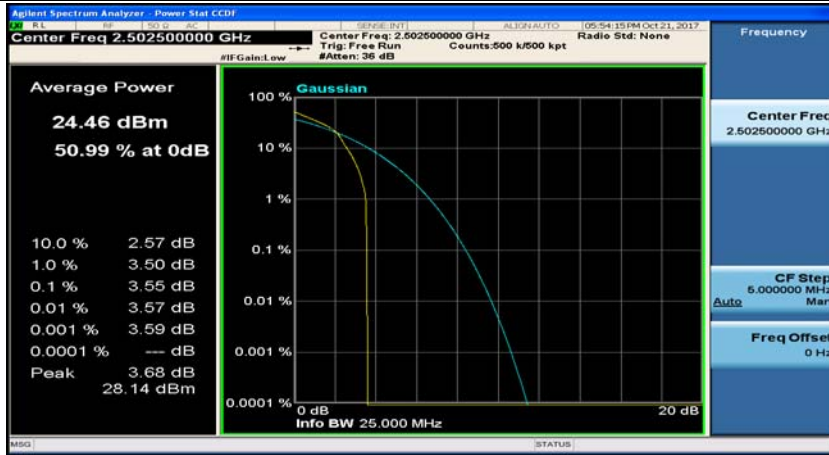
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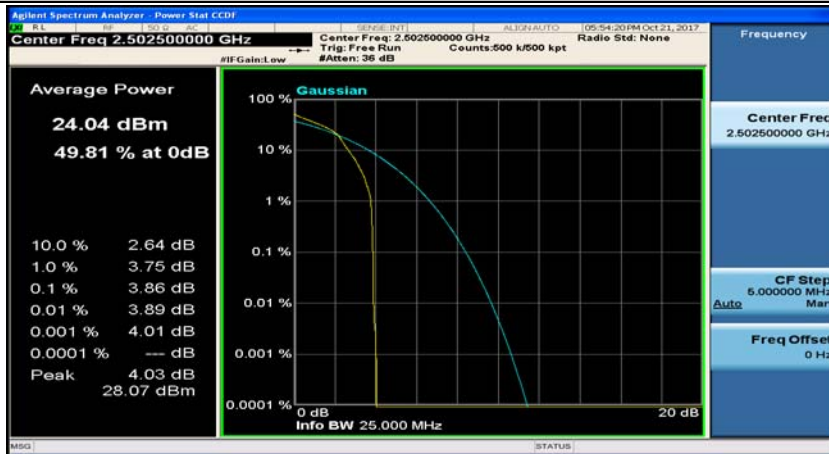
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(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_1RB#0



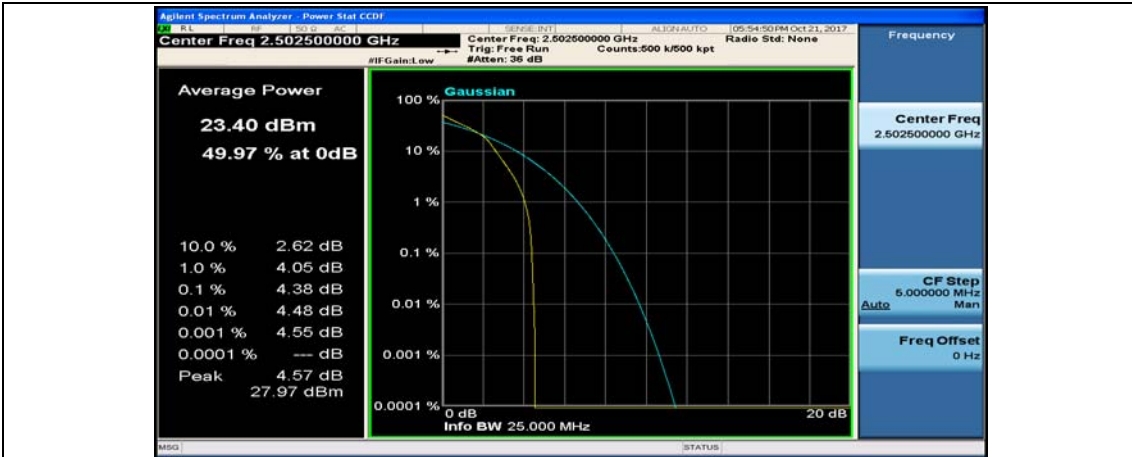
(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_1RB#12



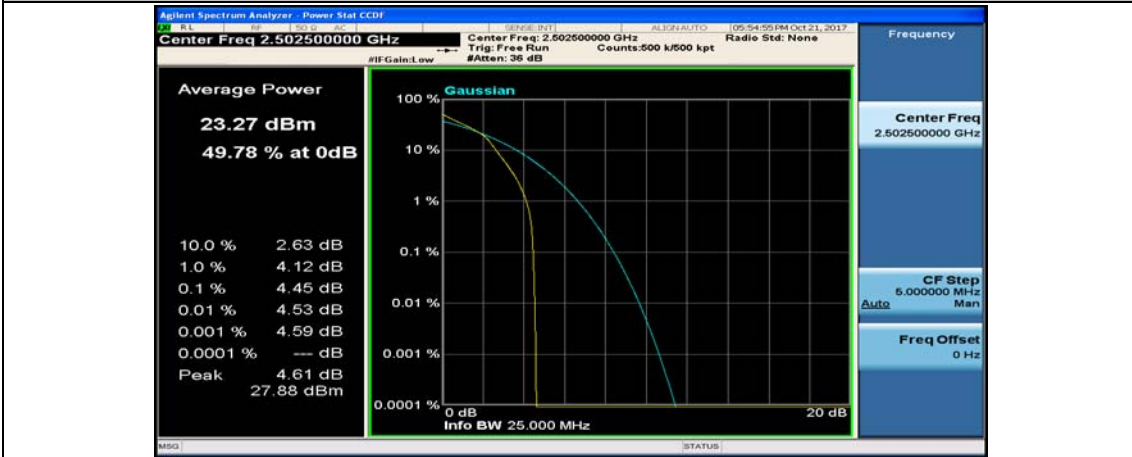
(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_1RB#24



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



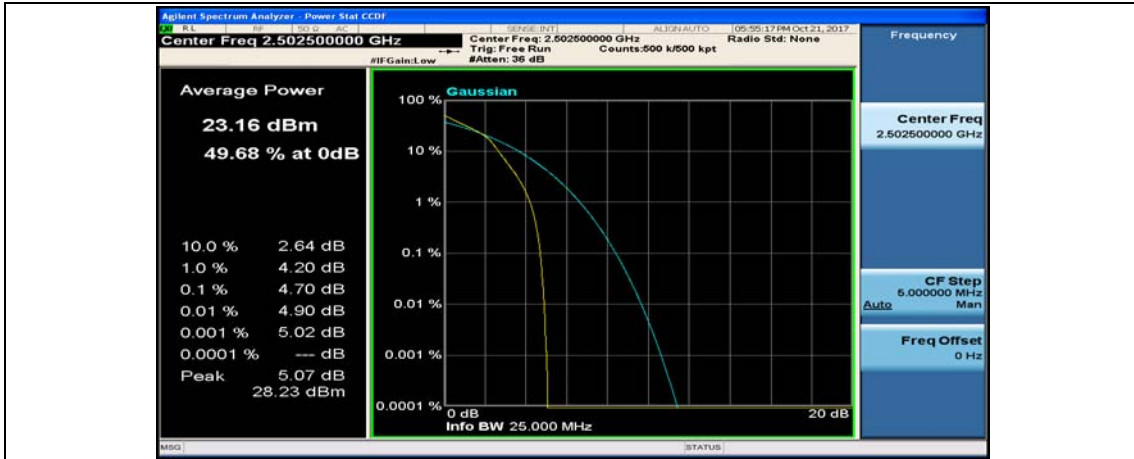
(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_12RB#6



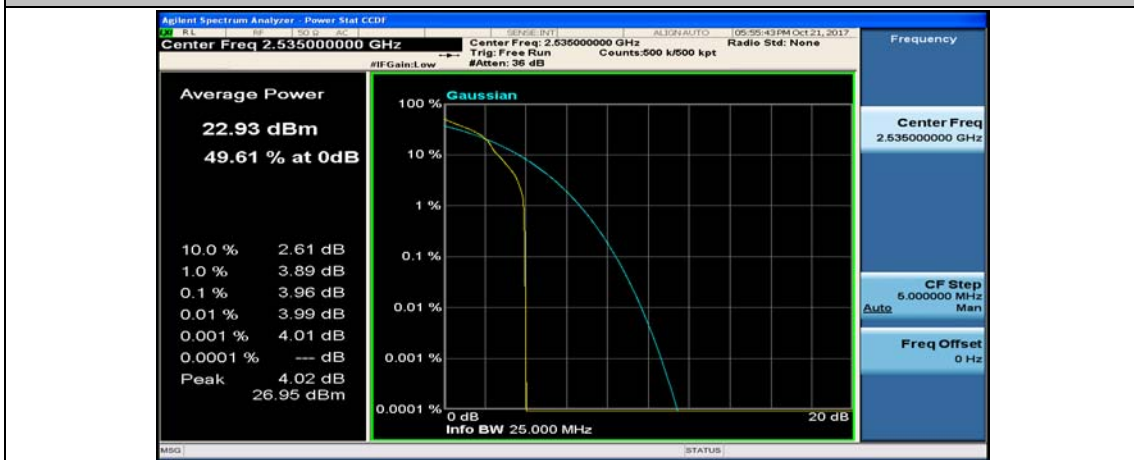
(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_12RB#13



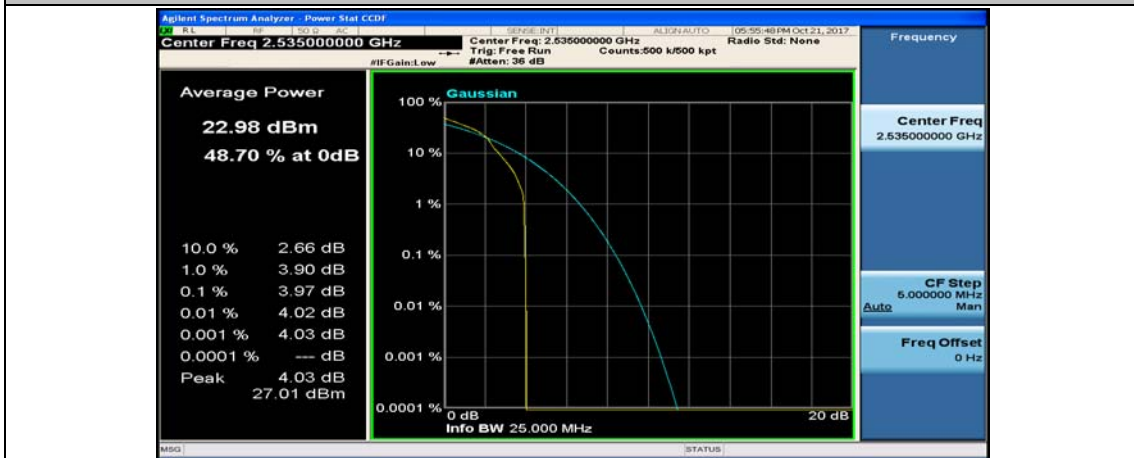
(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_25RB#0



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



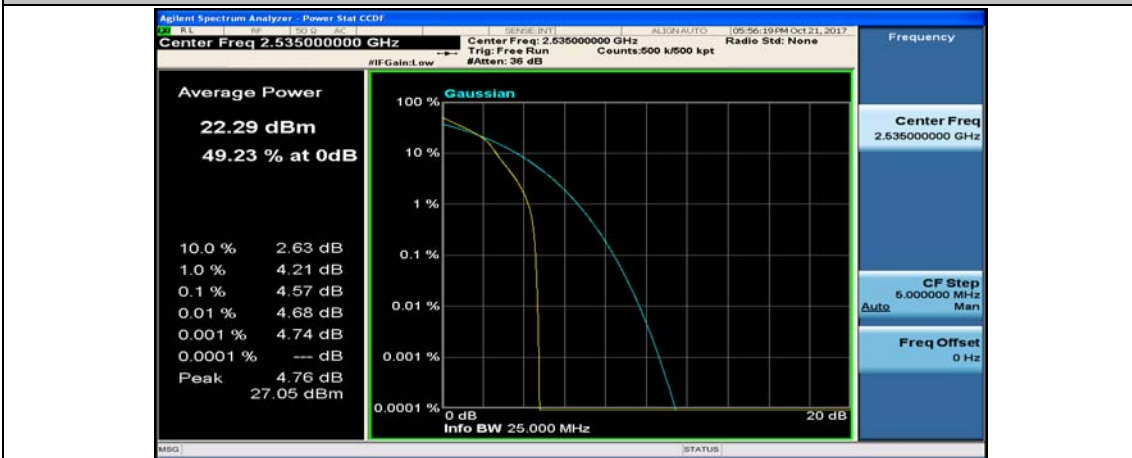
(Channel Bandwidth: 5 MHz)\_MCH\_16QAM\_1RB#12



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



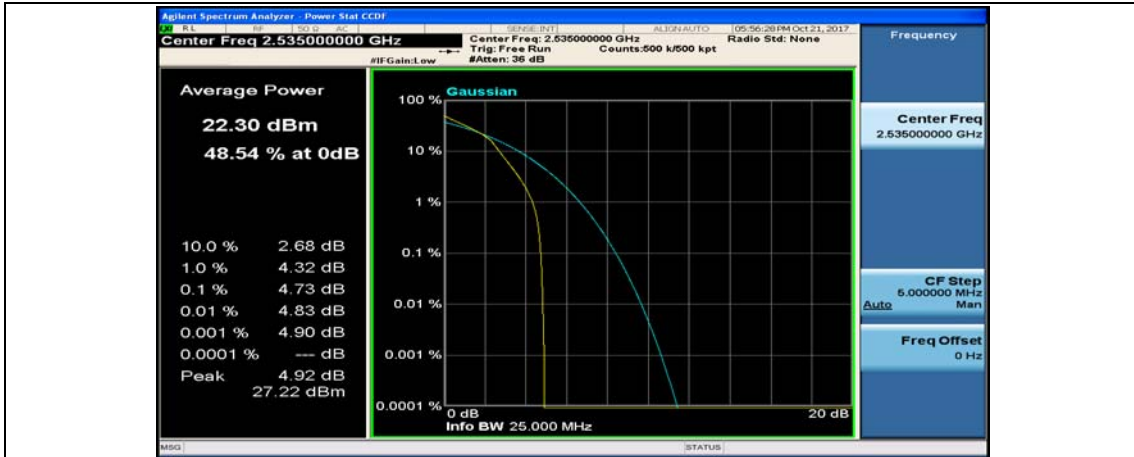
(Channel Bandwidth: 5 MHz)\_MCH\_16QAM\_12RB#0



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



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



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



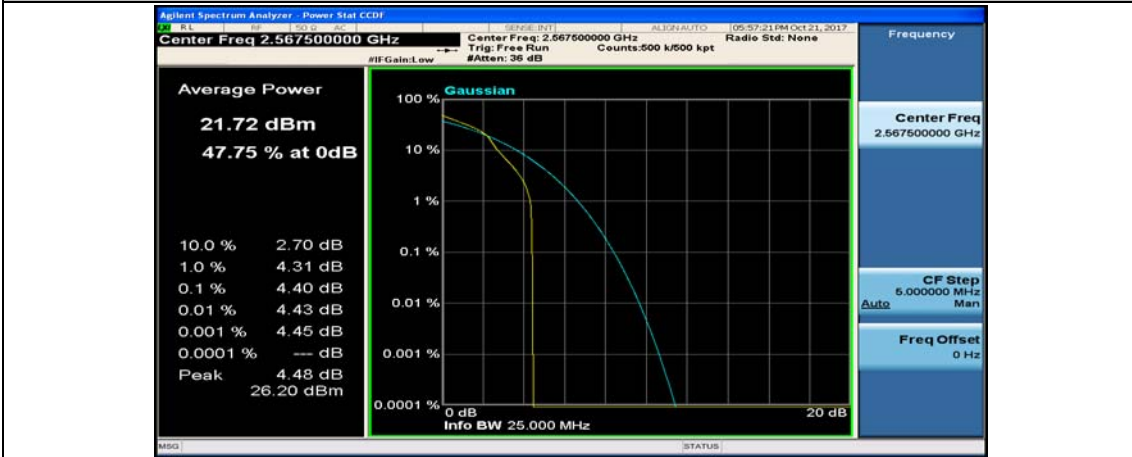
(Channel Bandwidth: 5 MHz)\_HCH\_16QAM\_1RB#0



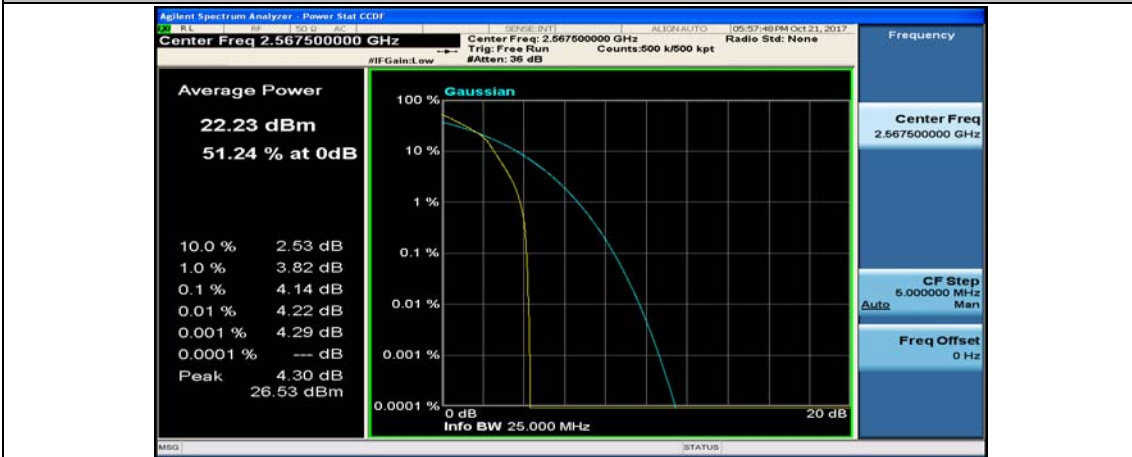
(Channel Bandwidth: 5 MHz)\_HCH\_16QAM\_1RB#12



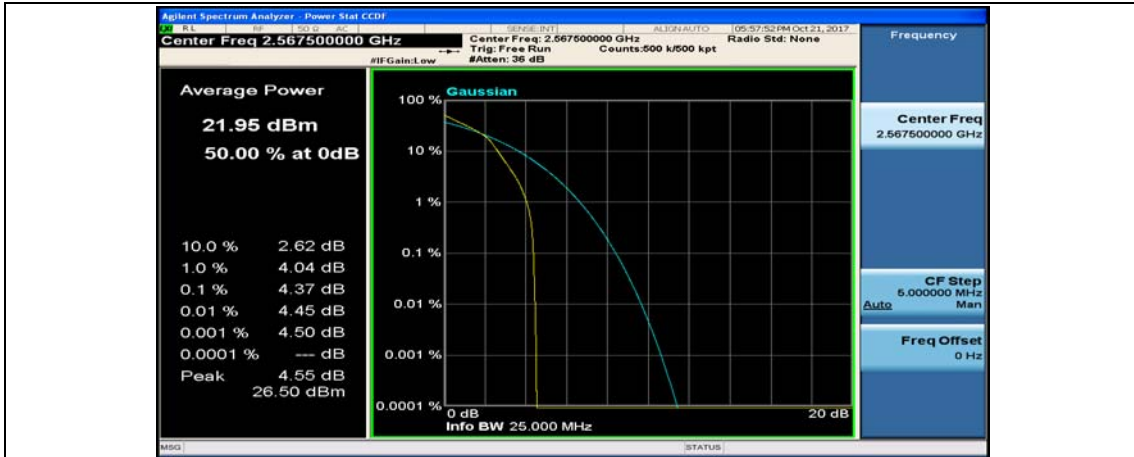
(Channel Bandwidth: 5 MHz)\_HCH\_16QAM\_1RB#24



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



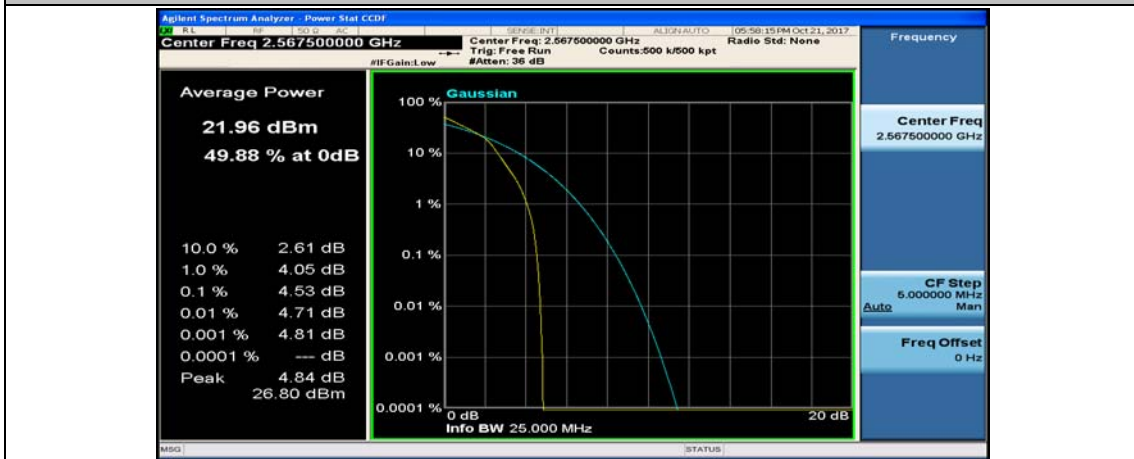
(Channel Bandwidth: 5 MHz)\_HCH\_16QAM\_12RB#6



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

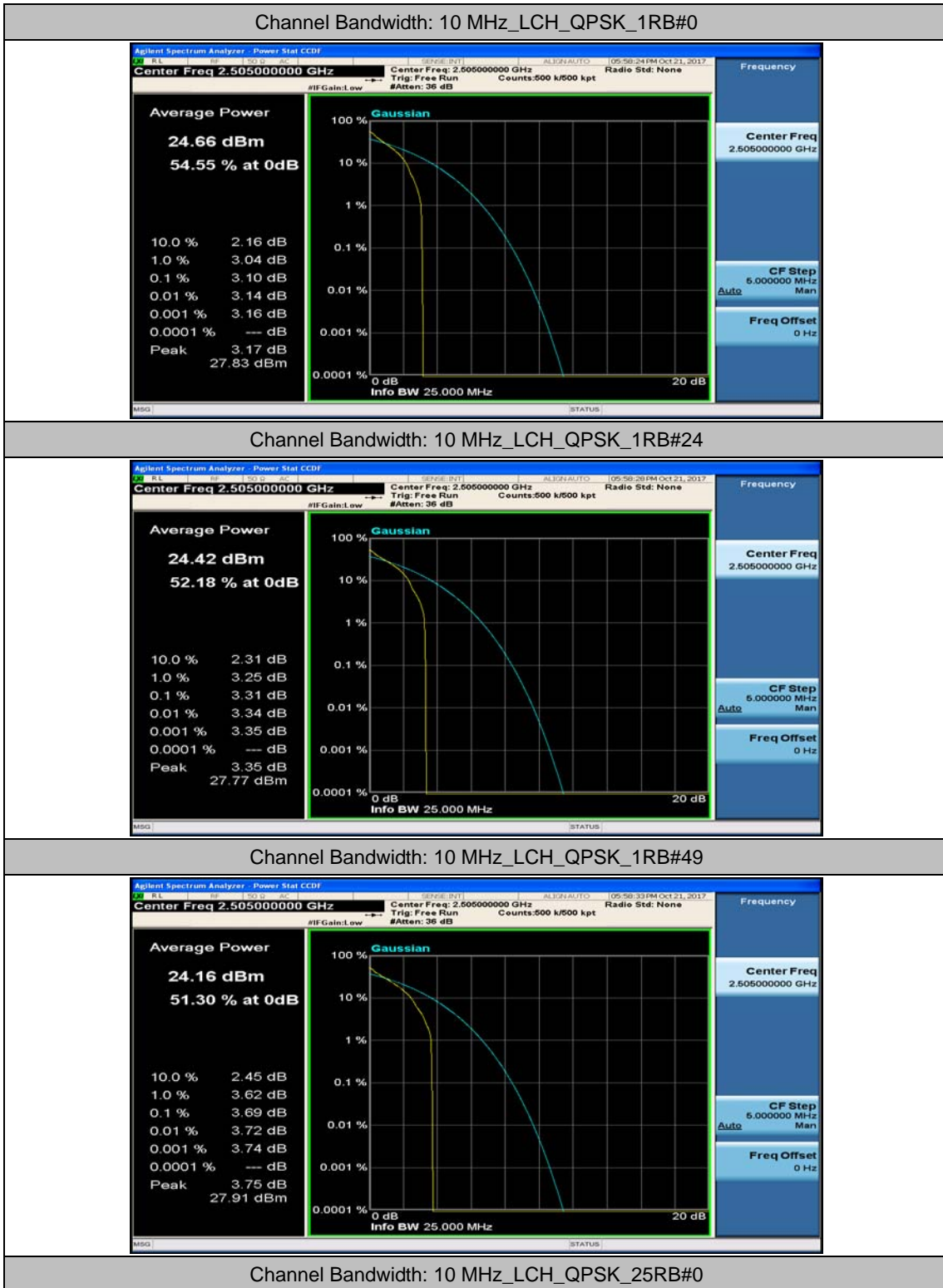


(Channel Bandwidth: 5 MHz)\_HCH\_16QAM\_25RB#0



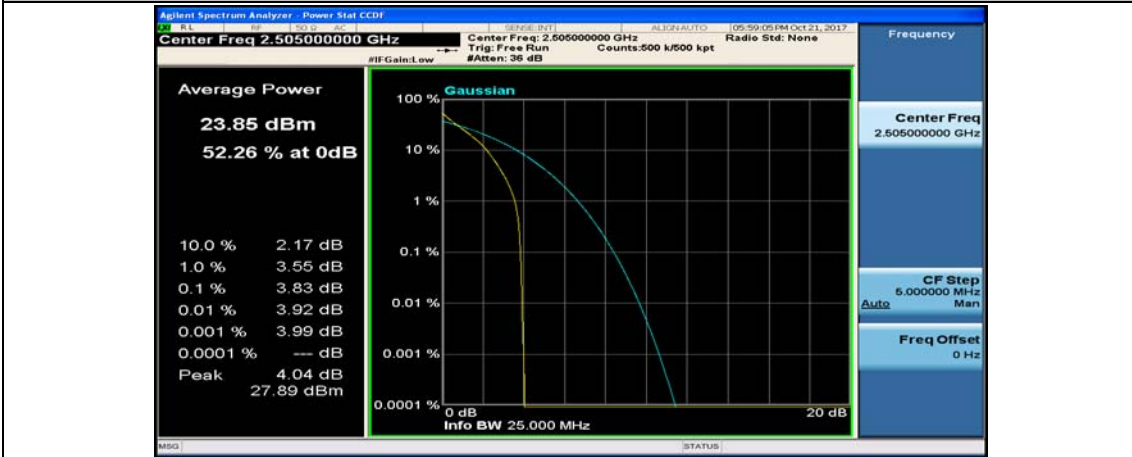


### Channel Bandwidth: 10 MHz





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



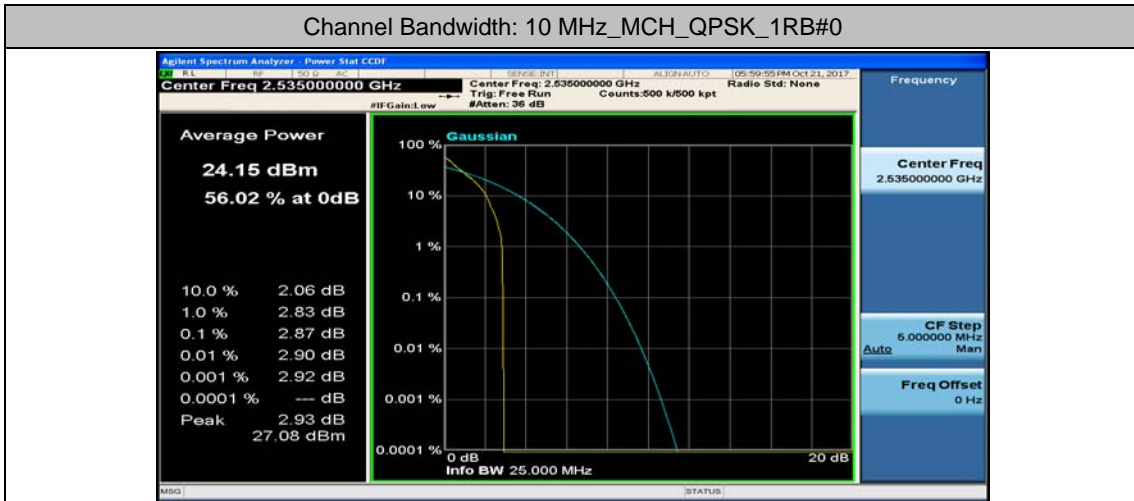
Channel Bandwidth: 10 MHz\_LCH\_QPSK\_25RB#25



Channel Bandwidth: 10 MHz\_LCH\_QPSK\_50RB#0



Channel Bandwidth: 10 MHz\_MCH\_QPSK\_1RB#0



Channel Bandwidth: 10 MHz\_MCH\_QPSK\_1RB#24



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

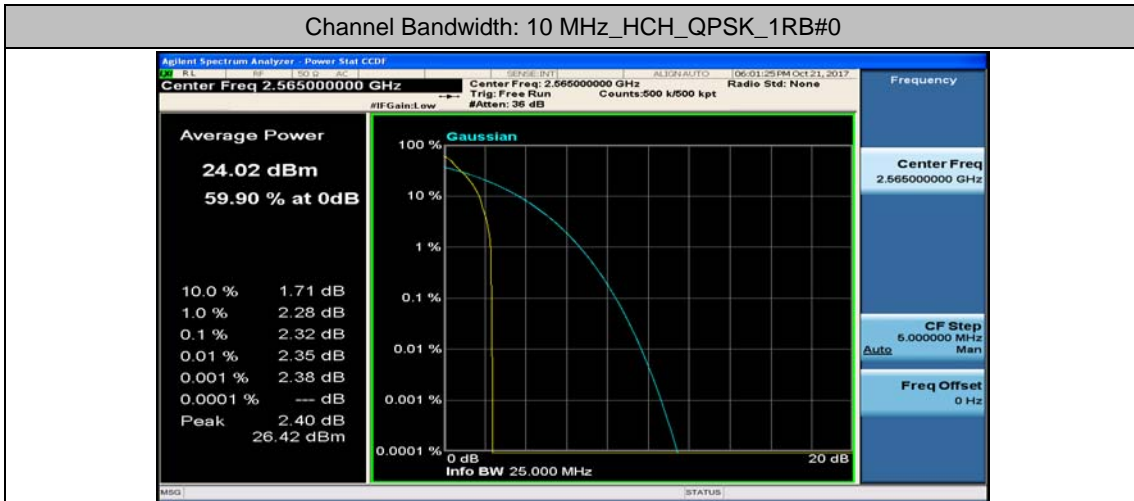




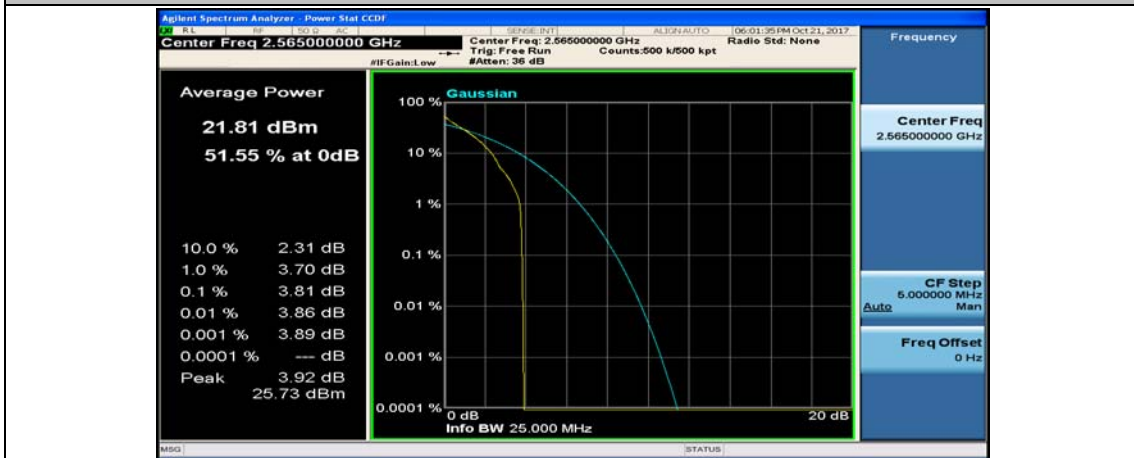
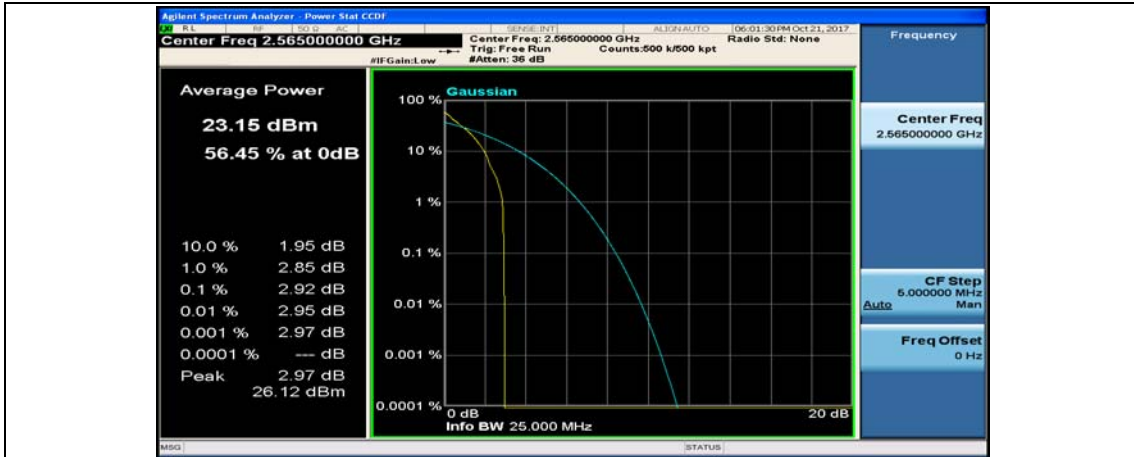
Channel Bandwidth: 10 MHz\_MCH\_QPSK\_50RB#0

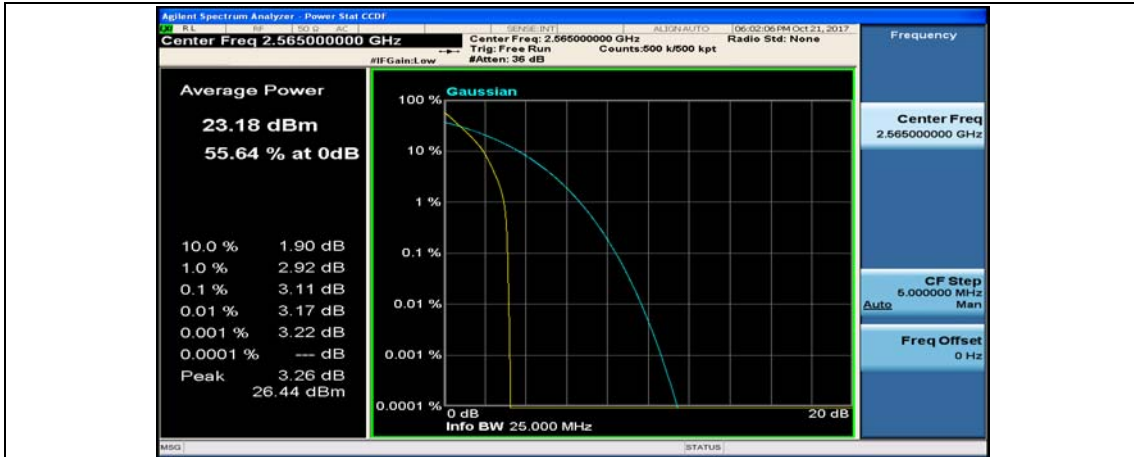


Channel Bandwidth: 10 MHz\_HCH\_QPSK\_1RB#0

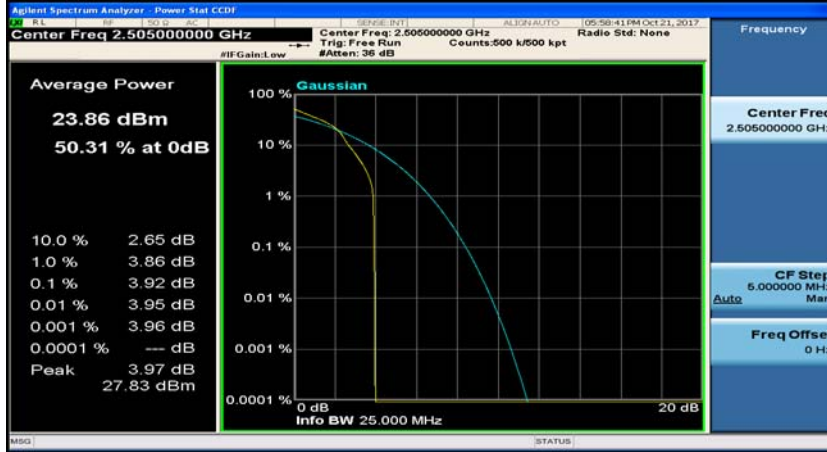


Channel Bandwidth: 10 MHz\_HCH\_QPSK\_1RB#24

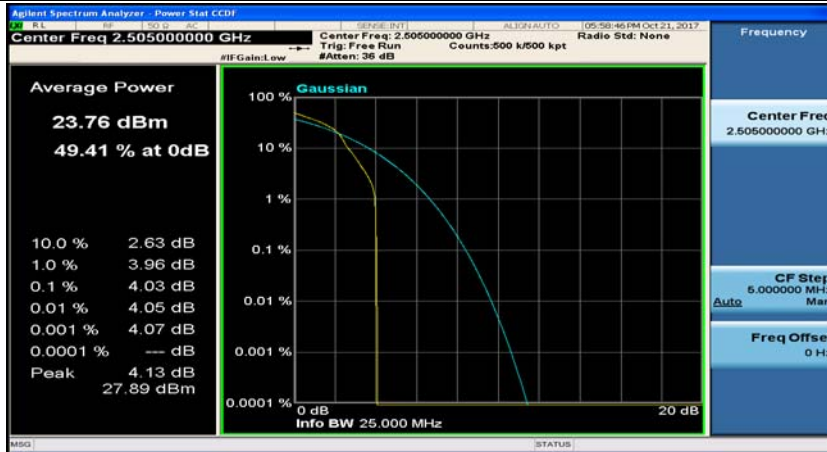




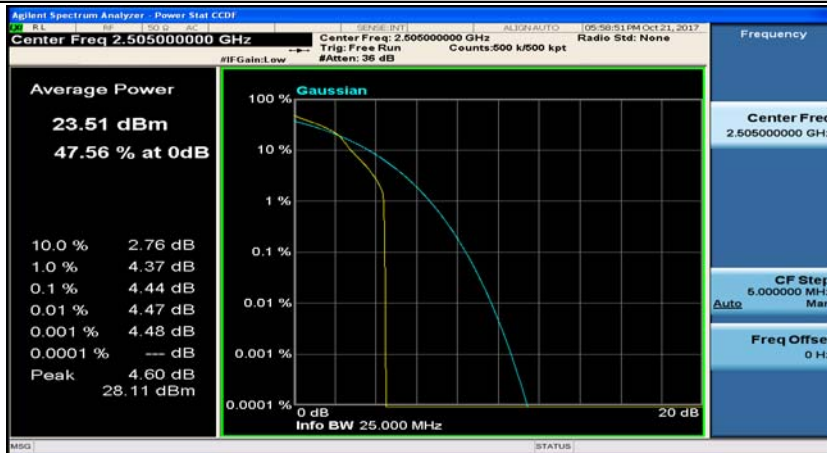
Channel Bandwidth: 10 MHz\_LCH\_16QAM\_1RB#0



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

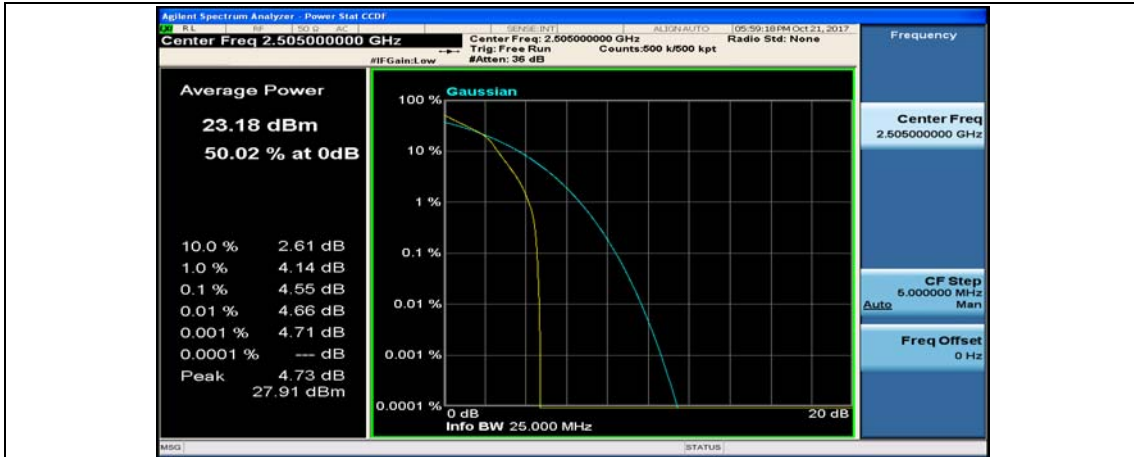


Channel Bandwidth: 10 MHz\_LCH\_16QAM\_1RB#49



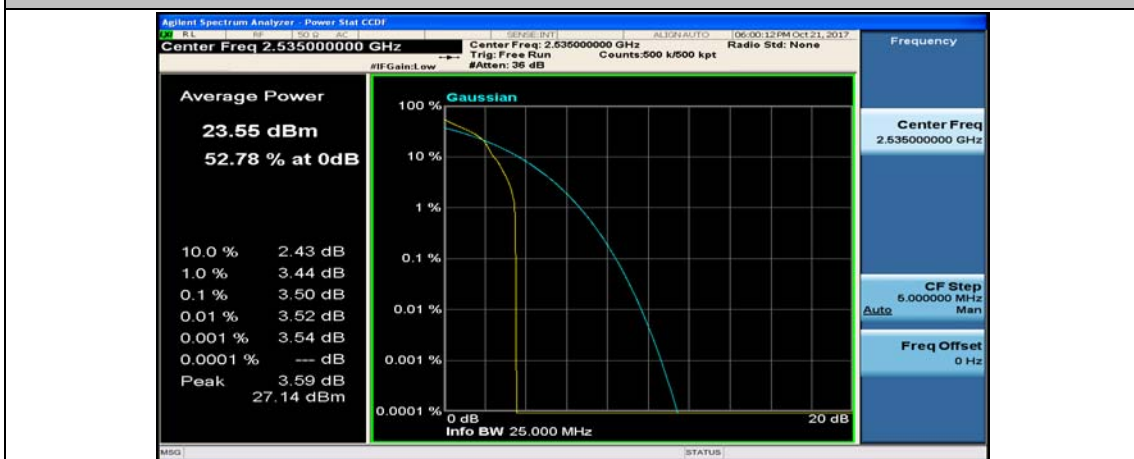
Channel Bandwidth: 10 MHz\_LCH\_16QAM\_25RB#0



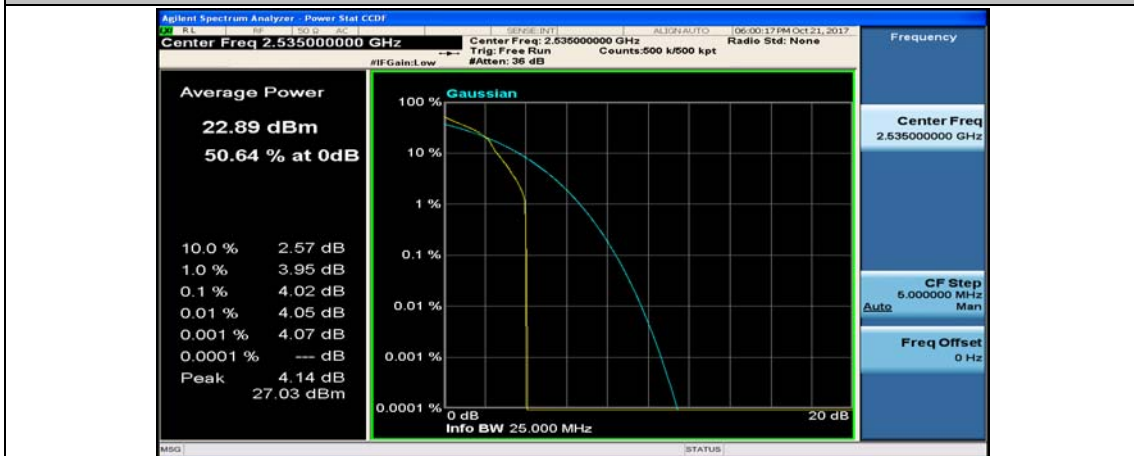




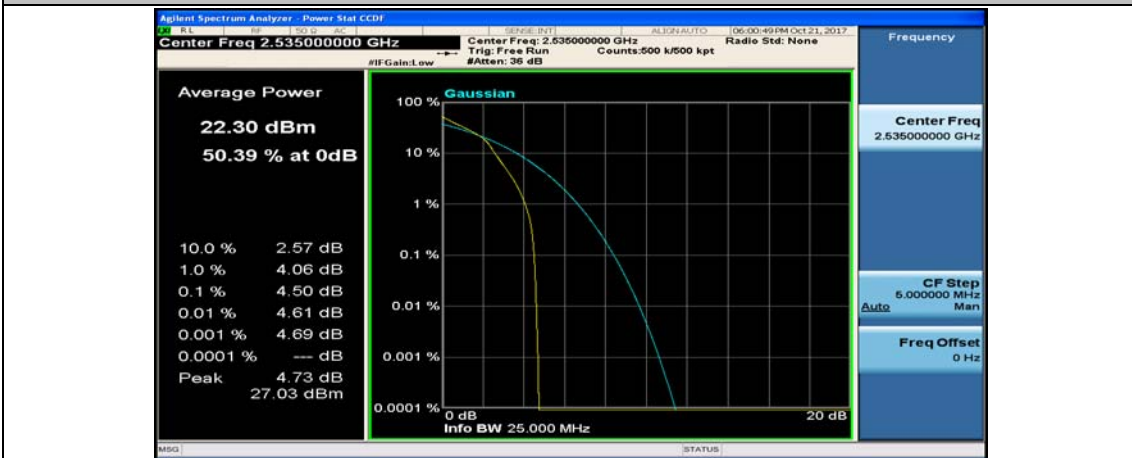
Channel Bandwidth: 10 MHz\_MCH\_16QAM\_1RB#0



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



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





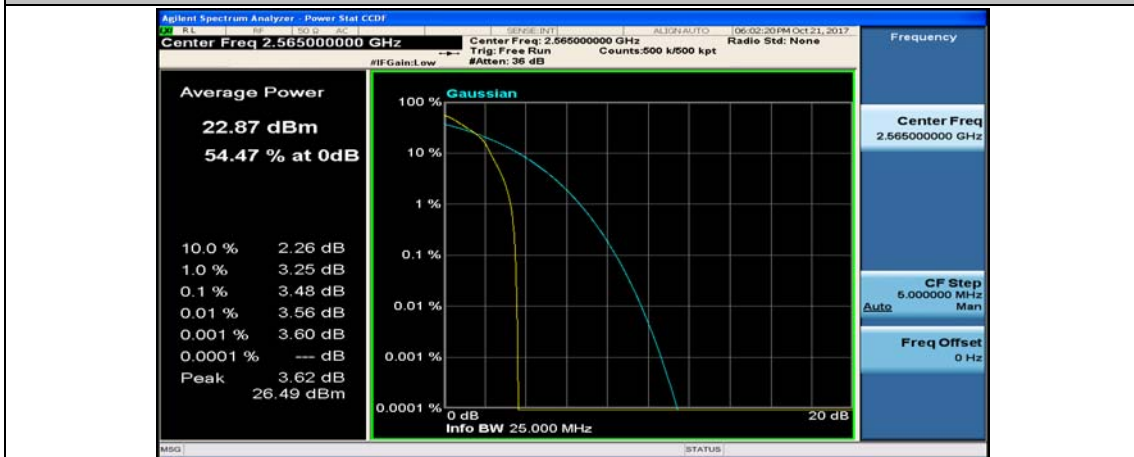
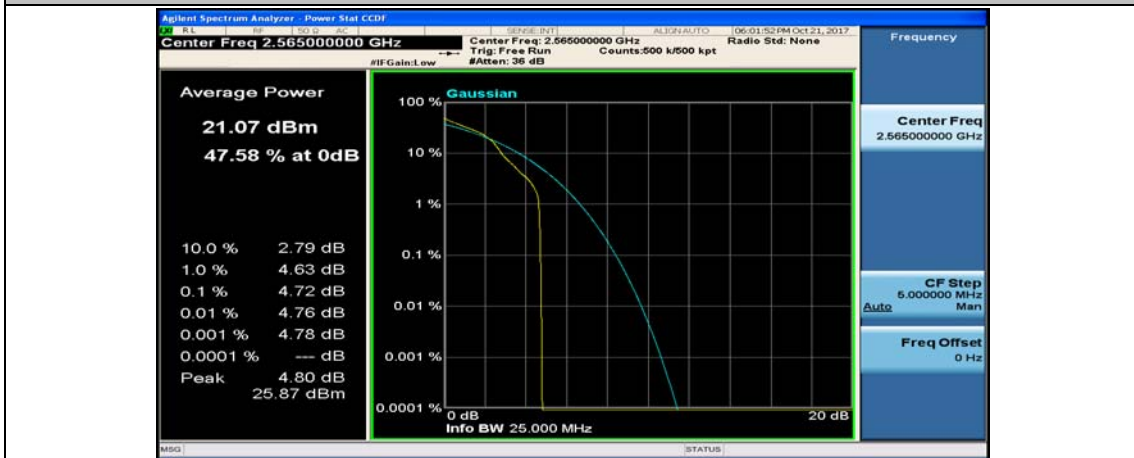
Channel Bandwidth: 10 MHz\_MCH\_16QAM\_50RB#0

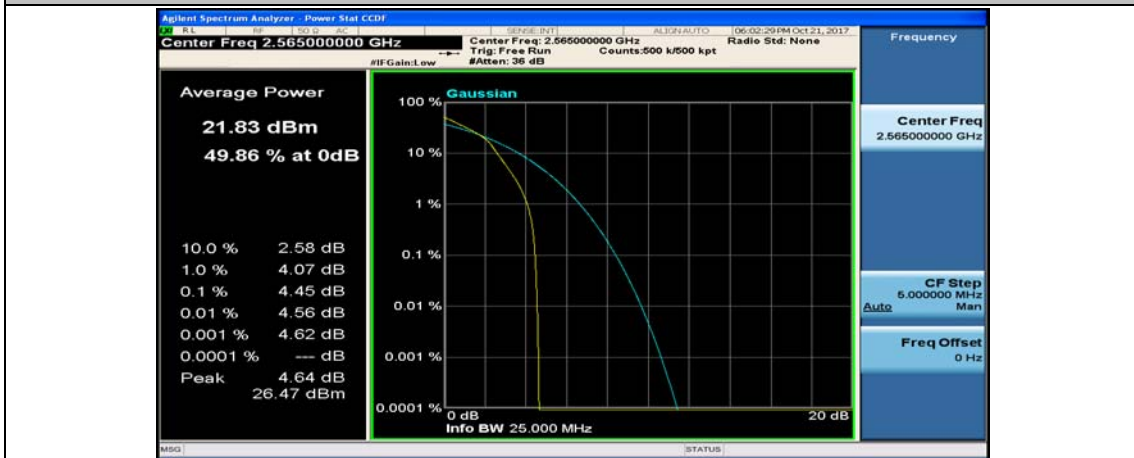


Channel Bandwidth: 10 MHz\_HCH\_16QAM\_1RB#0



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





**Channel Bandwidth: 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

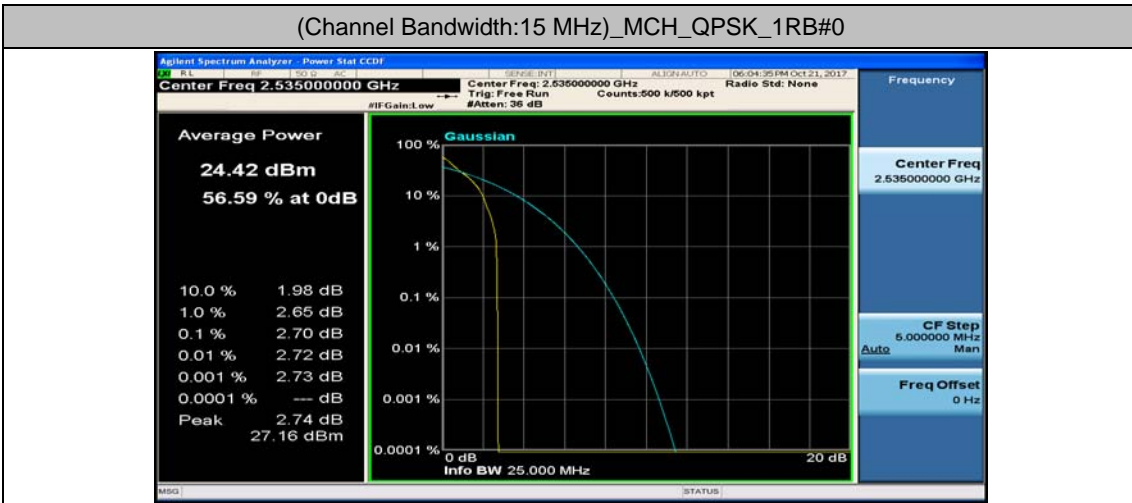


(Channel Bandwidth:15 MHz)\_LCH\_QPSK\_75RB#0

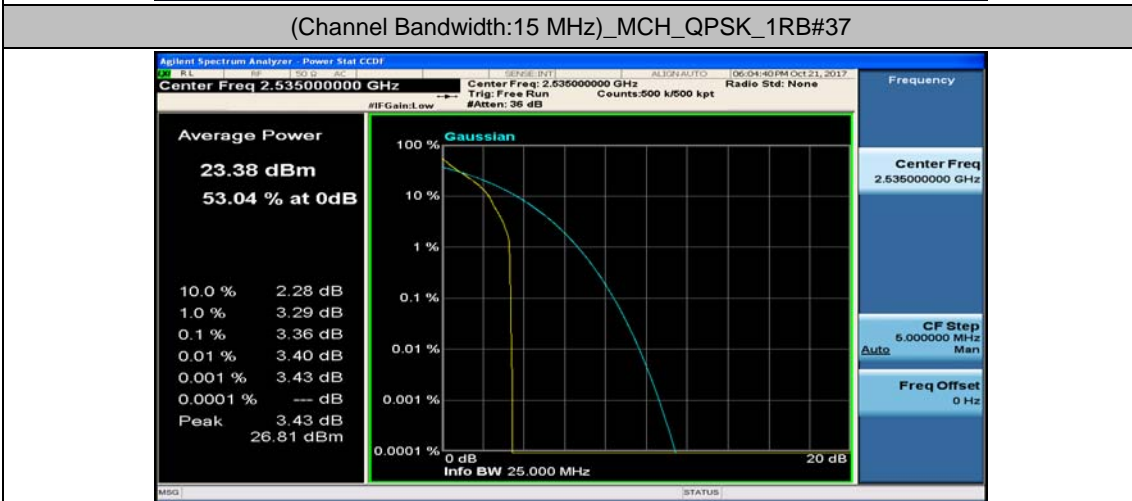




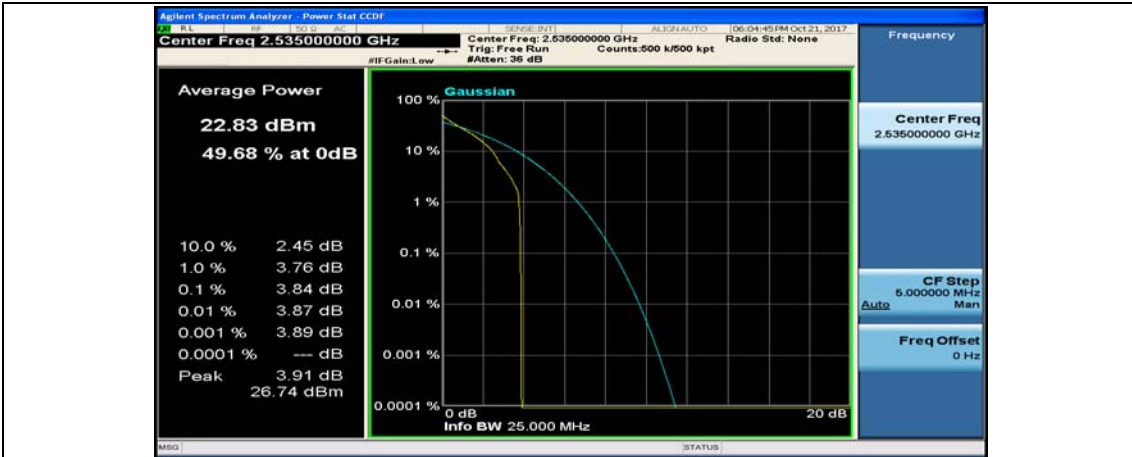
(Channel Bandwidth:15 MHz)\_MCH\_QPSK\_1RB#0



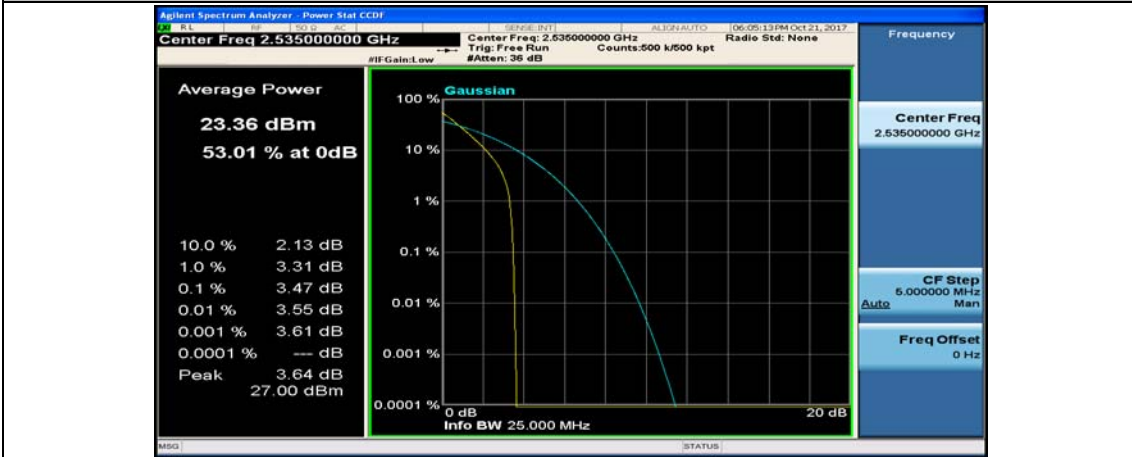
(Channel Bandwidth:15 MHz)\_MCH\_QPSK\_1RB#37



(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



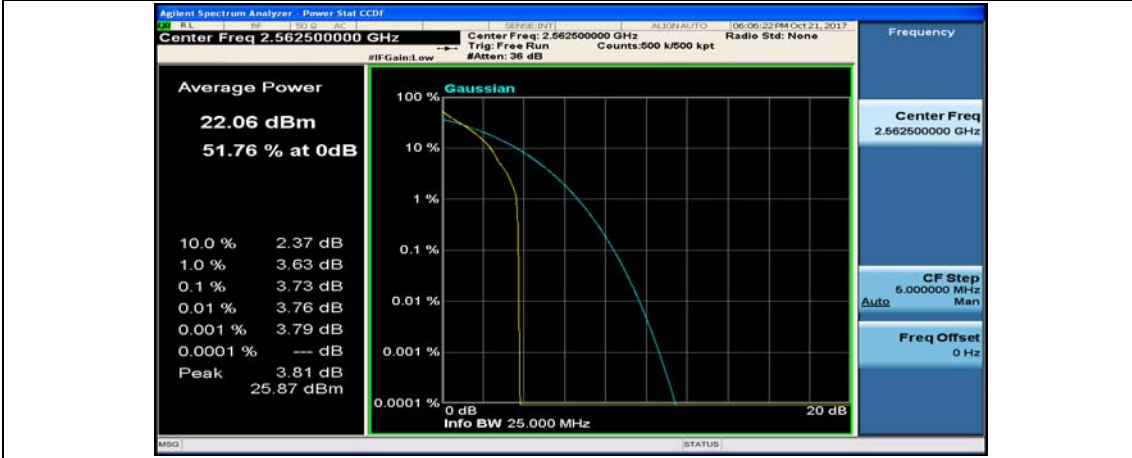
(Channel Bandwidth:15 MHz)\_HCH\_QPSK\_1RB#0



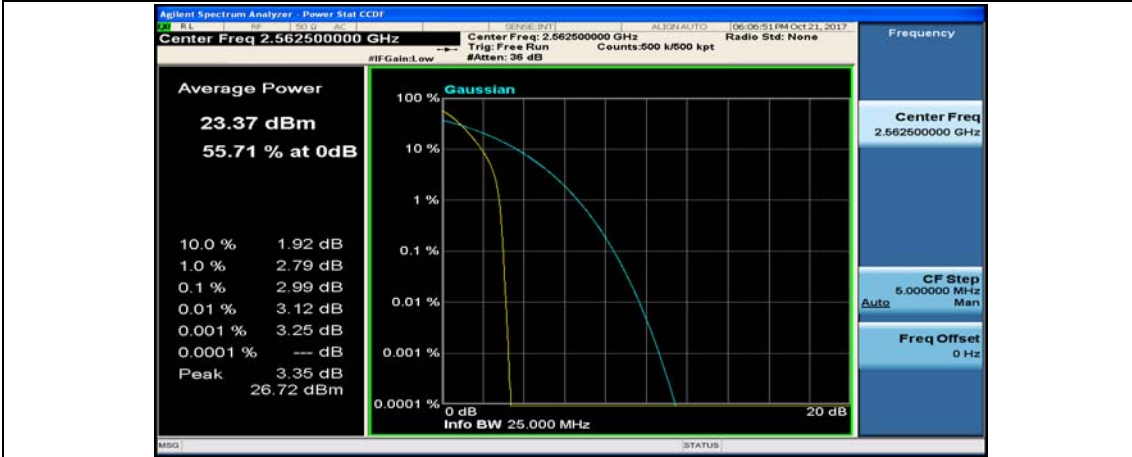
(Channel Bandwidth:15 MHz)\_HCH\_QPSK\_1RB#37



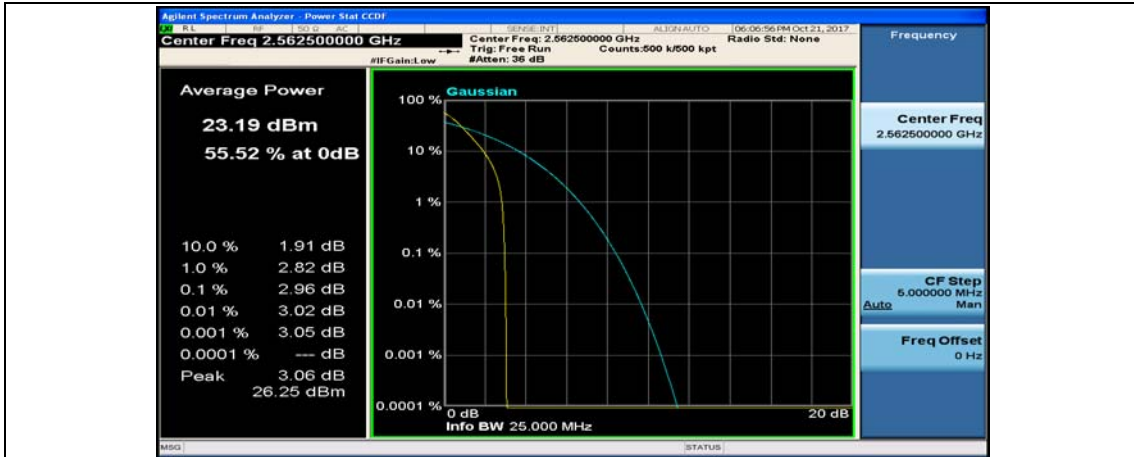
(Channel Bandwidth:15 MHz)\_HCH\_QPSK\_1RB#74



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



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



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



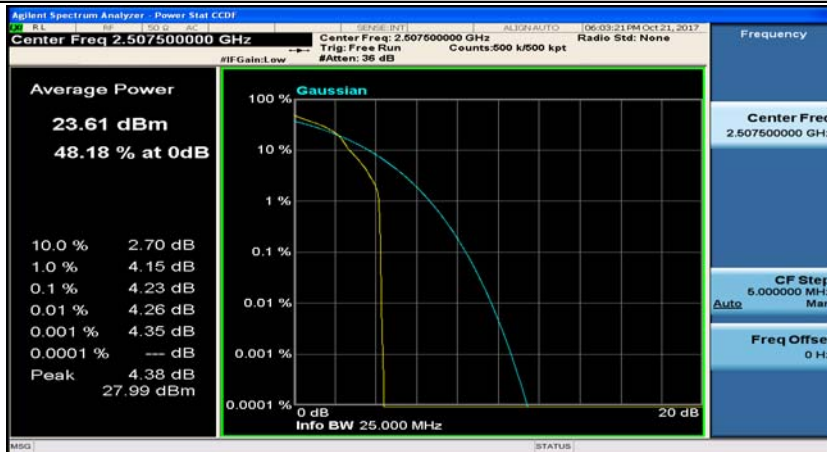
(Channel Bandwidth:15 MHz)\_HCH\_QPSK\_75RB#0



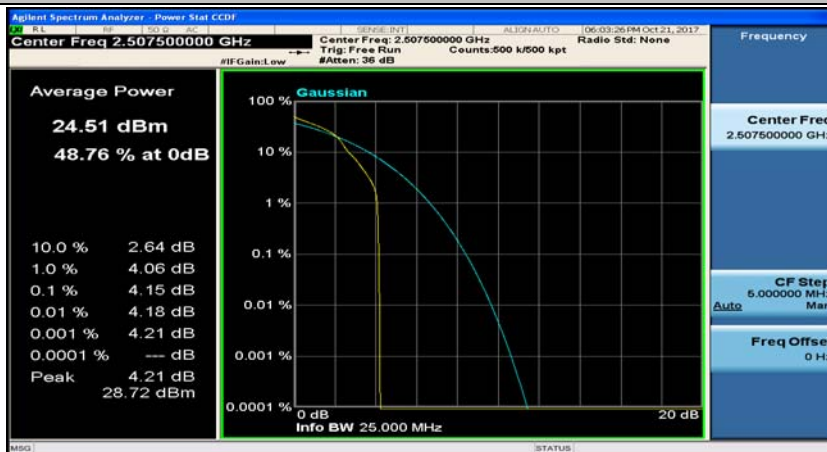
(Channel Bandwidth:15 MHz)\_LCH\_16QAM\_1RB#0



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



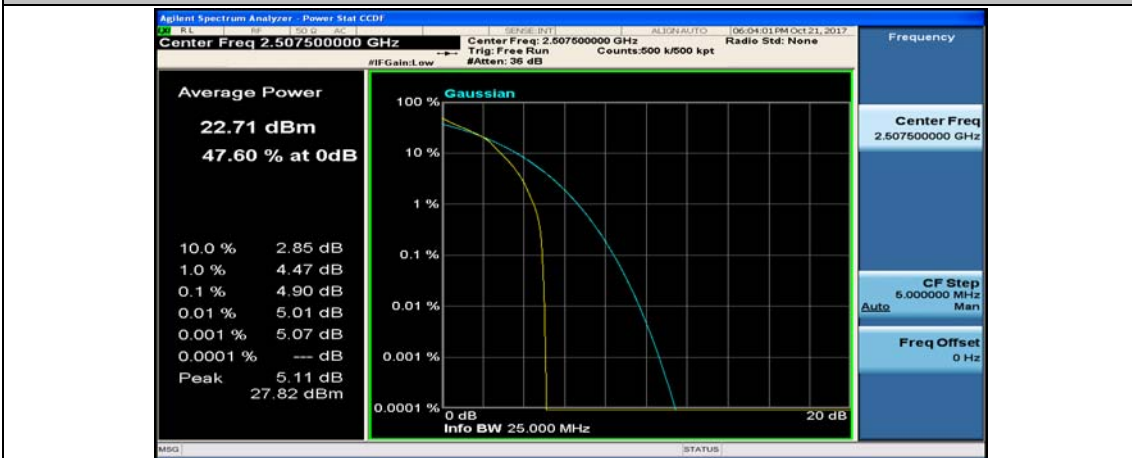
(Channel Bandwidth:15 MHz)\_LCH\_16QAM\_1RB#74



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



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



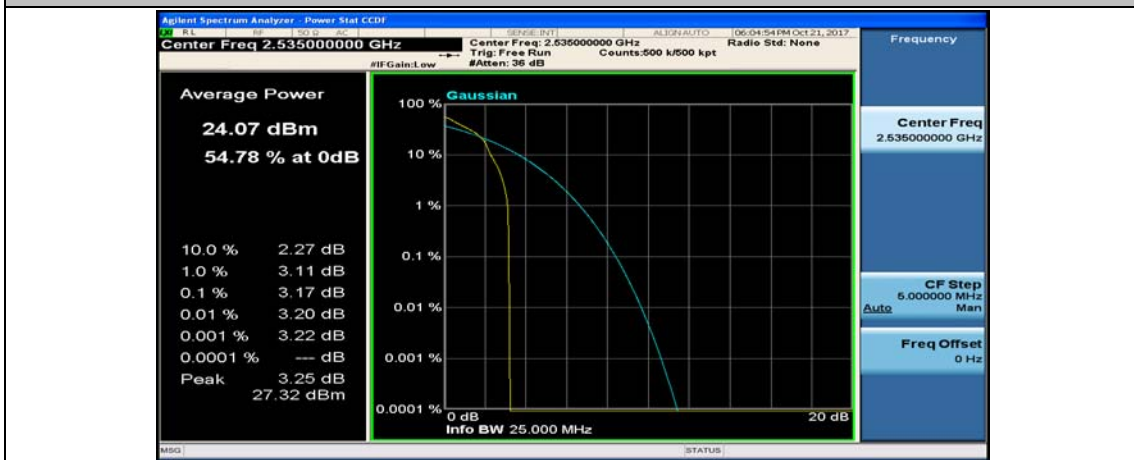
(Channel Bandwidth:15 MHz)\_LCH\_16QAM\_37RB#38



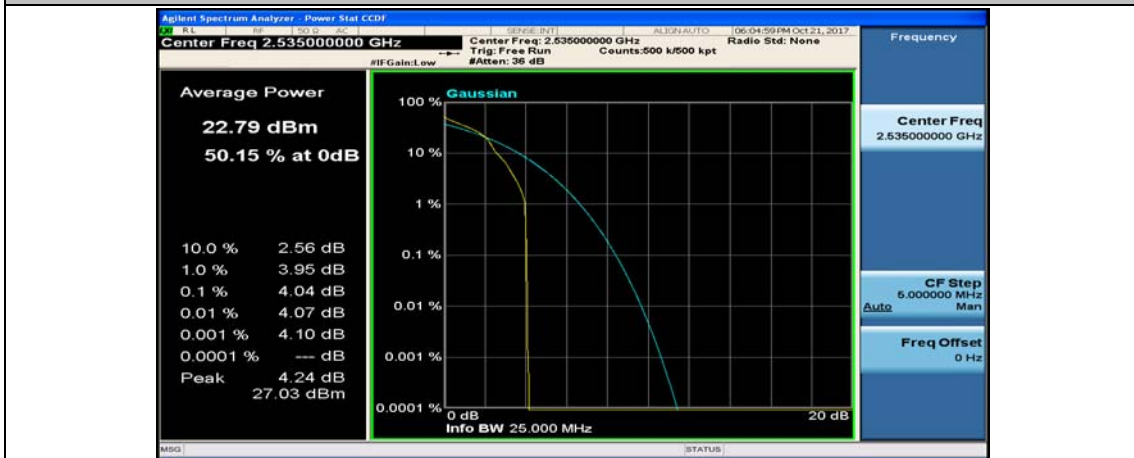
(Channel Bandwidth:15 MHz)\_LCH\_16QAM\_75RB#0



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

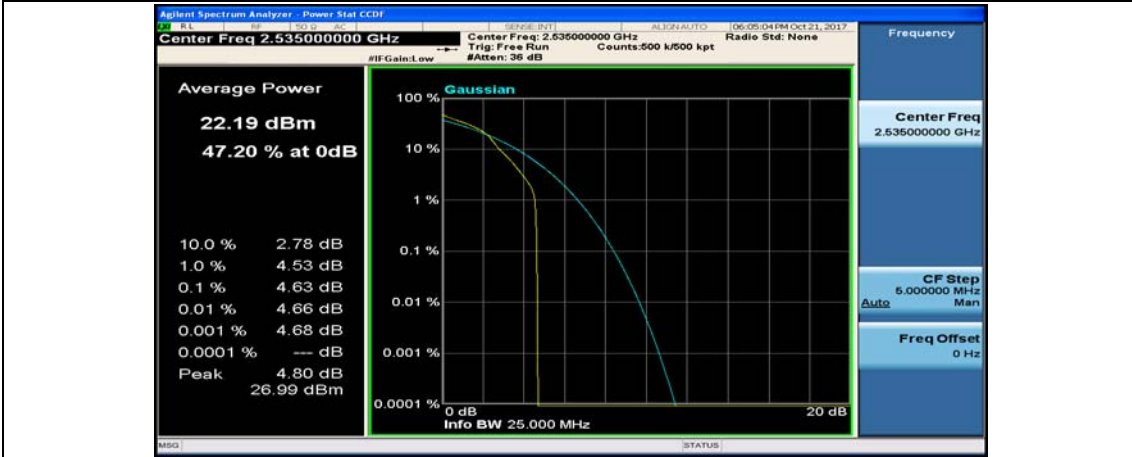


(Channel Bandwidth:15 MHz)\_MCH\_16QAM\_1RB#37

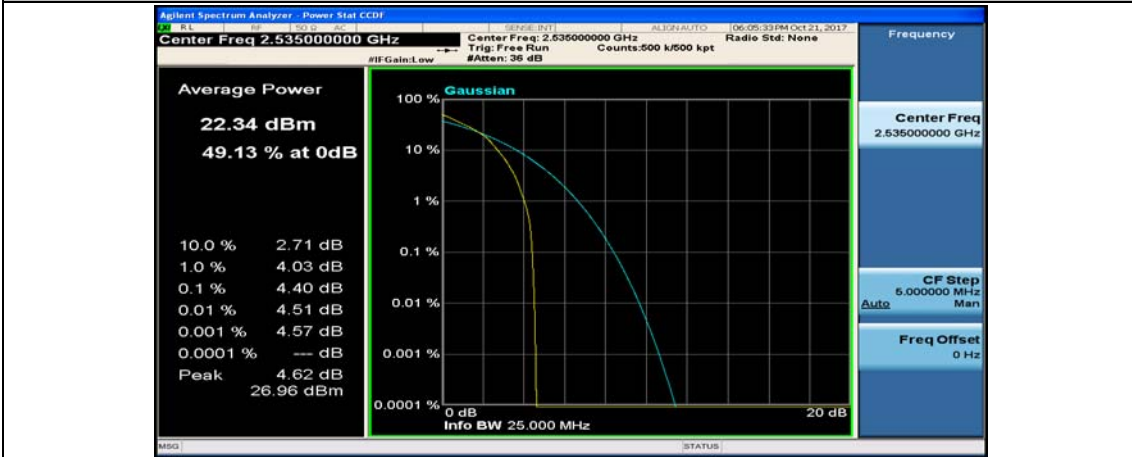


(Channel Bandwidth:15 MHz)\_MCH\_16QAM\_1RB#74

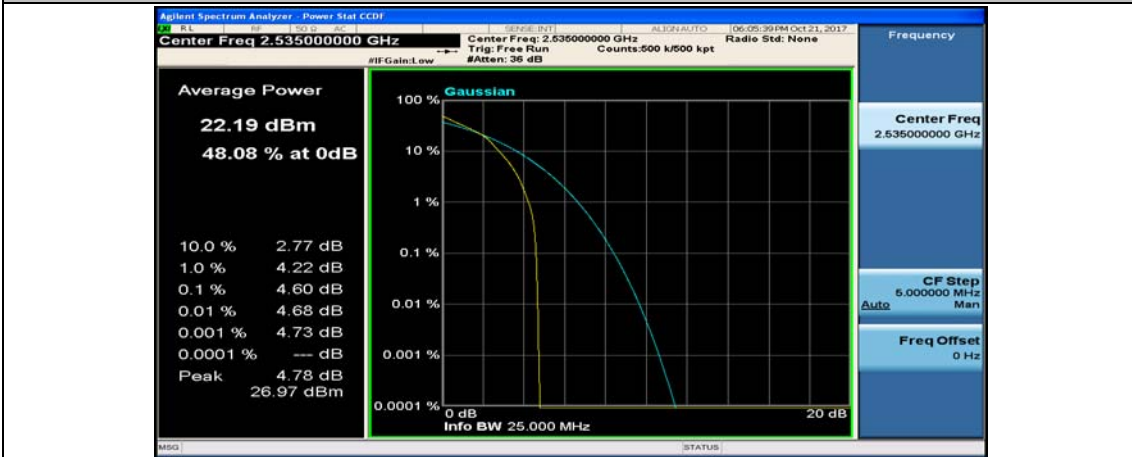




(Channel Bandwidth:15 MHz)\_MCH\_16QAM\_37RB#0



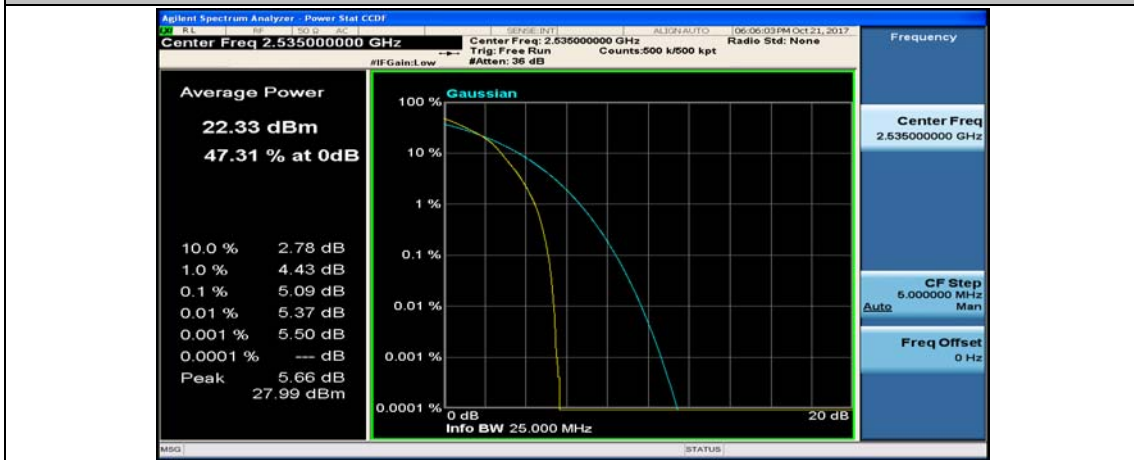
(Channel Bandwidth:15 MHz)\_MCH\_16QAM\_37RB#18



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



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



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



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