

## 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	3.45	<13	PASS
		1	3	3.51	<13	PASS
		1	5	3.46	<13	PASS
		3	0	4.04	<13	PASS
		3	2	4.06	<13	PASS
		3	3	4.07	<13	PASS
		6	0	5.10	<13	PASS
	MCH	1	0	3.48	<13	PASS
		1	3	3.60	<13	PASS
		1	5	3.57	<13	PASS
		3	0	4.20	<13	PASS
		3	2	4.26	<13	PASS
		3	3	4.26	<13	PASS
		6	0	5.14	<13	PASS
	HCH	1	0	2.96	<13	PASS
		1	3	3.05	<13	PASS
		1	5	2.90	<13	PASS
		3	0	3.46	<13	PASS
		3	2	3.38	<13	PASS
		3	3	3.32	<13	PASS
		6	0	4.50	<13	PASS
16QAM	LCH	1	0	4.29	<13	PASS
		1	3	4.39	<13	PASS
		1	5	4.30	<13	PASS
		3	0	4.85	<13	PASS
		3	2	4.91	<13	PASS
		3	3	4.91	<13	PASS
		6	0	5.90	<13	PASS
	MCH	1	0	4.57	<13	PASS
		1	3	4.68	<13	PASS
		1	5	4.62	<13	PASS
		3	0	5.08	<13	PASS
		3	2	5.06	<13	PASS
		3	3	5.10	<13	PASS
		6	0	5.91	<13	PASS
	HCH	1	0	3.69	<13	PASS
		1	3	3.75	<13	PASS
		1	5	3.71	<13	PASS
		3	0	4.18	<13	PASS
		3	2	4.12	<13	PASS
		3	3	4.07	<13	PASS
		6	0	5.19	<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	3.49	<13	PASS
		1	7	3.66	<13	PASS
		1	14	3.54	<13	PASS
		8	0	4.95	<13	PASS
		8	4	4.94	<13	PASS
		8	7	4.87	<13	PASS
		15	0	5.24	<13	PASS
	MCH	1	0	3.57	<13	PASS
		1	7	3.80	<13	PASS
		1	14	3.76	<13	PASS
		8	0	5.09	<13	PASS
		8	4	5.1	<13	PASS
		8	7	5.15	<13	PASS
		15	0	5.34	<13	PASS
	HCH	1	0	2.89	<13	PASS
		1	7	2.97	<13	PASS
		1	14	2.84	<13	PASS
		8	0	4.42	<13	PASS
		8	4	4.37	<13	PASS
		8	7	4.40	<13	PASS
		15	0	4.86	<13	PASS
16QAM	LCH	1	0	4.27	<13	PASS
		1	7	4.36	<13	PASS
		1	14	4.33	<13	PASS
		8	0	5.67	<13	PASS
		8	4	5.63	<13	PASS
		8	7	5.65	<13	PASS
		15	0	6.06	<13	PASS
	MCH	1	0	4.37	<13	PASS
		1	7	4.58	<13	PASS
		1	14	4.42	<13	PASS
		8	0	5.69	<13	PASS
		8	4	5.76	<13	PASS
		8	7	5.81	<13	PASS
		15	0	6.11	<13	PASS
	HCH	1	0	3.79	<13	PASS
		1	7	3.80	<13	PASS
		1	14	3.74	<13	PASS
		8	0	5.09	<13	PASS
		8	4	5.07	<13	PASS
		8	7	5.03	<13	PASS
		15	0	5.42	<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	3.46	<13	PASS
		1	12	3.64	<13	PASS
		1	24	3.51	<13	PASS
		12	0	5.19	<13	PASS
		12	6	5.02	<13	PASS
		12	13	5.23	<13	PASS
		25	0	5.47	<13	PASS
	MCH	1	0	3.51	<13	PASS
		1	12	3.89	<13	PASS
		1	24	3.76	<13	PASS
		12	0	5.23	<13	PASS
		12	6	5.28	<13	PASS
		12	13	5.37	<13	PASS
		25	0	5.52	<13	PASS
16QAM	LCH	1	0	3.03	<13	PASS
		1	12	3.27	<13	PASS
		1	24	2.94	<13	PASS
		12	0	4.65	<13	PASS
		12	6	4.69	<13	PASS
		12	13	4.42	<13	PASS
		25	0	5.01	<13	PASS
	MCH	1	0	4.39	<13	PASS
		1	12	4.72	<13	PASS
		1	24	4.53	<13	PASS
		12	0	5.95	<13	PASS
		12	6	5.98	<13	PASS
		12	13	5.94	<13	PASS
		25	0	6.16	<13	PASS
	HCH	1	0	4.55	<13	PASS
		1	12	4.86	<13	PASS
		1	24	4.73	<13	PASS
		12	0	5.89	<13	PASS
		12	6	6.08	<13	PASS
		12	13	6.08	<13	PASS
		25	0	6.24	<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	3.87	<13	PASS
		1	24	3.77	<13	PASS
		1	49	3.92	<13	PASS
		25	0	5.31	<13	PASS
		25	12	5.24	<13	PASS
		25	25	5.28	<13	PASS
		50	0	5.44	<13	PASS
	MCH	1	0	3.86	<13	PASS
		1	24	3.98	<13	PASS
		1	49	4.21	<13	PASS
		25	0	5.27	<13	PASS
		25	12	5.38	<13	PASS
		25	25	5.48	<13	PASS
		50	0	5.55	<13	PASS
	HCH	1	0	3.15	<13	PASS
		1	24	3.19	<13	PASS
		1	49	3.18	<13	PASS
		25	0	4.77	<13	PASS
		25	12	4.70	<13	PASS
		25	25	4.76	<13	PASS
		50	0	5.08	<13	PASS
16QAM	LCH	1	0	4.65	<13	PASS
		1	24	4.58	<13	PASS
		1	49	4.47	<13	PASS
		25	0	6.04	<13	PASS
		25	12	6.02	<13	PASS
		25	25	5.98	<13	PASS
		50	0	6.12	<13	PASS
	MCH	1	0	4.49	<13	PASS
		1	24	4.74	<13	PASS
		1	49	4.93	<13	PASS
		25	0	6.11	<13	PASS
		25	12	6.12	<13	PASS
		25	25	6.33	<13	PASS
		50	0	6.17	<13	PASS
	HCH	1	0	4.01	<13	PASS
		1	24	4.08	<13	PASS
		1	49	4.13	<13	PASS
		25	0	5.53	<13	PASS
		25	12	5.45	<13	PASS
		25	25	5.49	<13	PASS
		50	0	5.82	<13	PASS

## Channel Bandwidth: 15 MHz

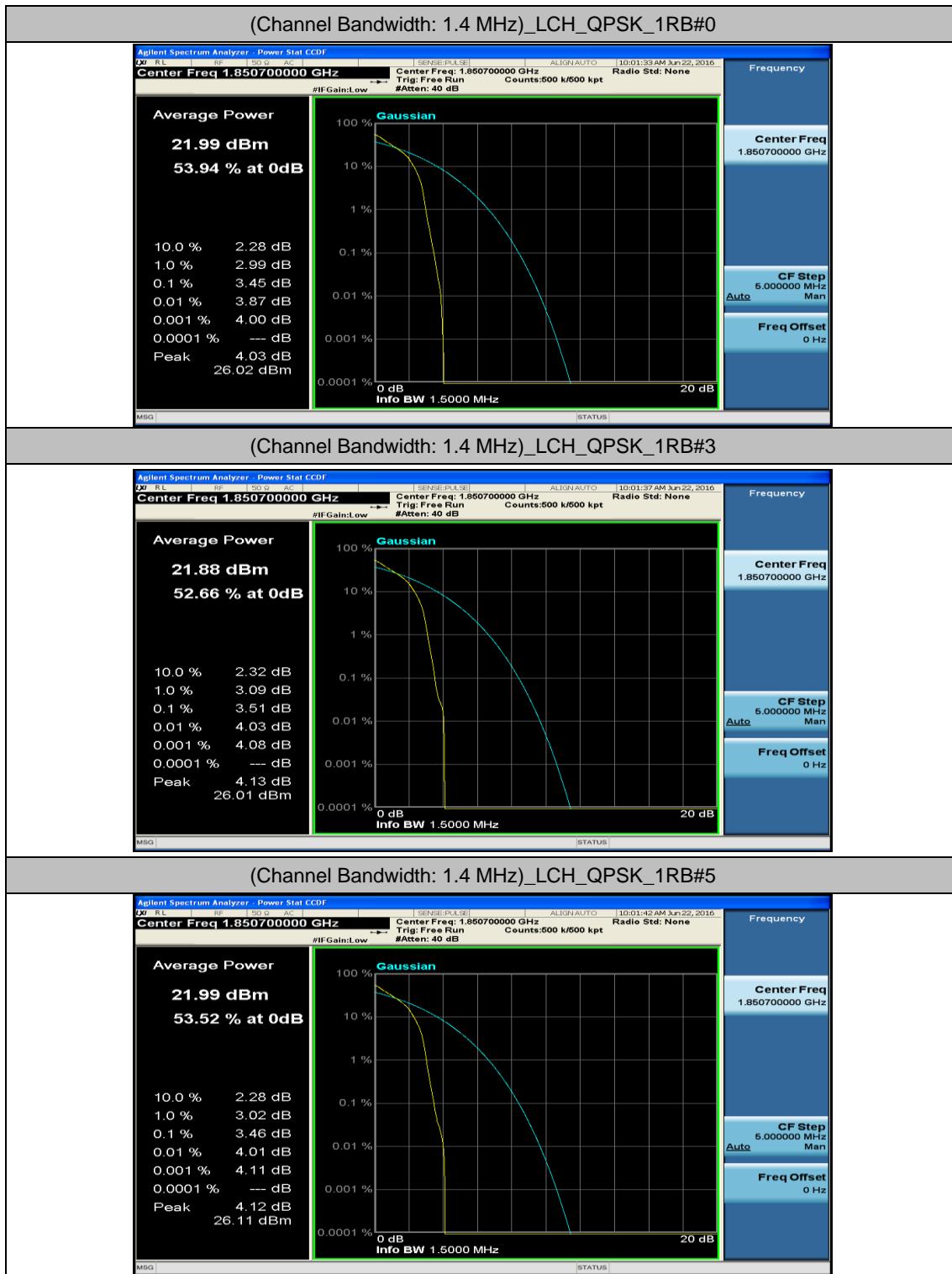
Channel Bandwidth: 15 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	LCH	1	0	8.47	<13	PASS
		1	37	3.82	<13	PASS
		1	74	10.26	<13	PASS
		37	0	4.61	<13	PASS
		37	18	5.28	<13	PASS
		37	38	4.73	<13	PASS
		75	0	4.96	<13	PASS
	MCH	1	0	8.56	<13	PASS
		1	37	4.03	<13	PASS
		1	74	10.03	<13	PASS
		37	0	4.57	<13	PASS
		37	18	5.42	<13	PASS
		37	38	4.85	<13	PASS
		75	0	4.99	<13	PASS
16QAM	LCH	1	0	8.50	<13	PASS
		1	37	3.28	<13	PASS
		1	74	10.37	<13	PASS
		37	0	4.37	<13	PASS
		37	18	4.80	<13	PASS
		37	38	4.61	<13	PASS
		75	0	4.91	<13	PASS
	MCH	1	0	9.02	<13	PASS
		1	37	4.53	<13	PASS
		1	74	10.51	<13	PASS
		37	0	5.83	<13	PASS
		37	18	6.04	<13	PASS
		37	38	5.92	<13	PASS
		75	0	6.17	<13	PASS
	HCH	1	0	8.57	<13	PASS
		1	37	4.71	<13	PASS
		1	74	10.22	<13	PASS
		37	0	5.80	<13	PASS
		37	18	6.14	<13	PASS
		37	38	6.03	<13	PASS
		75	0	6.21	<13	PASS

## Channel Bandwidth: 20 MHz

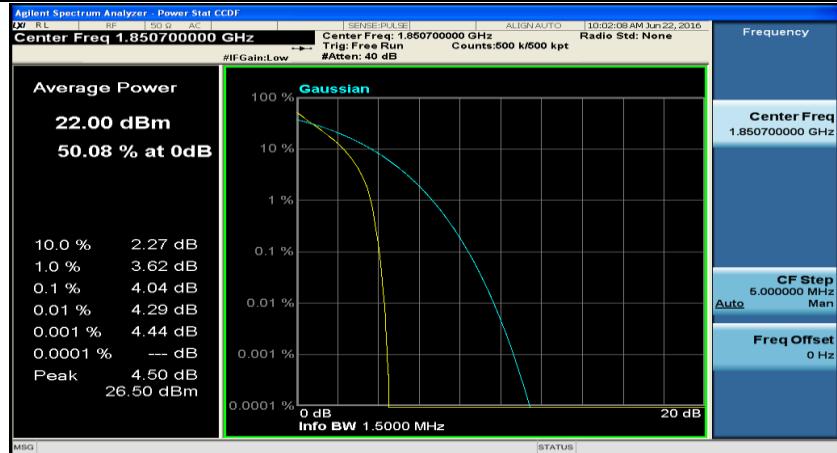
Channel Bandwidth: 20 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	LCH	1	0	9.85	<13	PASS
		1	49	3.72	<13	PASS
		1	99	9.90	<13	PASS
		50	0	5.43	<13	PASS
		50	25	5.33	<13	PASS
		50	50	5.73	<13	PASS
		100	0	5.66	<13	PASS
	MCH	1	0	9.50	<13	PASS
		1	49	3.95	<13	PASS
		1	99	9.83	<13	PASS
		50	0	5.38	<13	PASS
		50	25	5.48	<13	PASS
		50	50	5.78	<13	PASS
		100	0	5.69	<13	PASS
16QAM	LCH	1	0	9.93	<13	PASS
		1	49	3.42	<13	PASS
		1	99	8.75	<13	PASS
		50	0	5.24	<13	PASS
		50	25	4.96	<13	PASS
		50	50	5.61	<13	PASS
		100	0	5.68	<13	PASS
	MCH	1	0	10.12	<13	PASS
		1	49	4.31	<13	PASS
		1	99	9.49	<13	PASS
		50	0	6.37	<13	PASS
		50	25	6.05	<13	PASS
		50	50	6.59	<13	PASS
		100	0	6.72	<13	PASS
	HCH	1	0	9.40	<13	PASS
		1	49	4.72	<13	PASS
		1	99	9.79	<13	PASS
		50	0	6.42	<13	PASS
		50	25	6.22	<13	PASS
		50	50	6.63	<13	PASS
		100	0	6.69	<13	PASS

## Test Graphs

### Channel Bandwidth: 1.4 MHz



(Channel Bandwidth: 1.4 MHz)\_LCH\_QPSK\_3RB#0



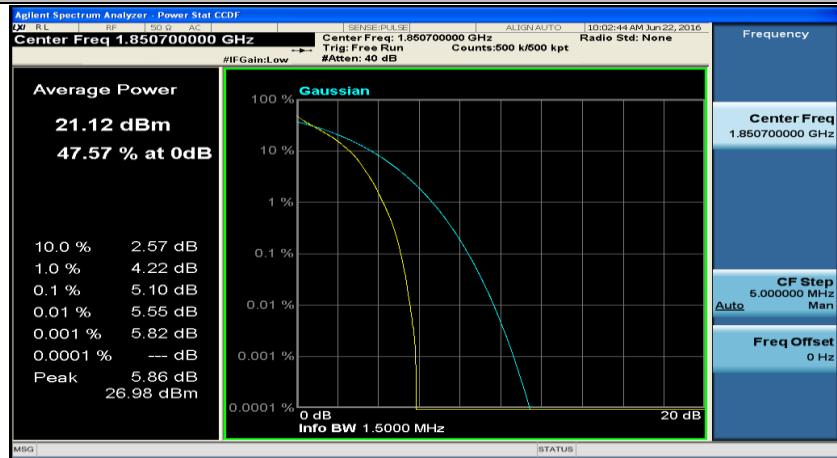
(Channel Bandwidth: 1.4 MHz)\_LCH\_QPSK\_3RB#2



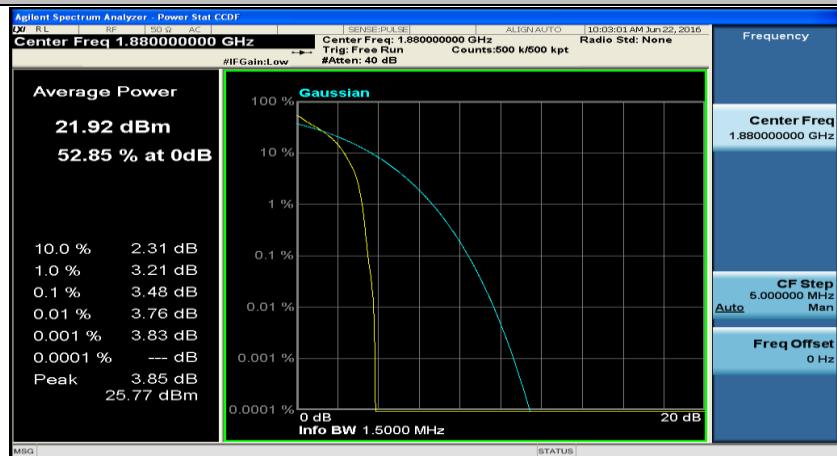
(Channel Bandwidth: 1.4 MHz)\_LCH\_QPSK\_3RB#3



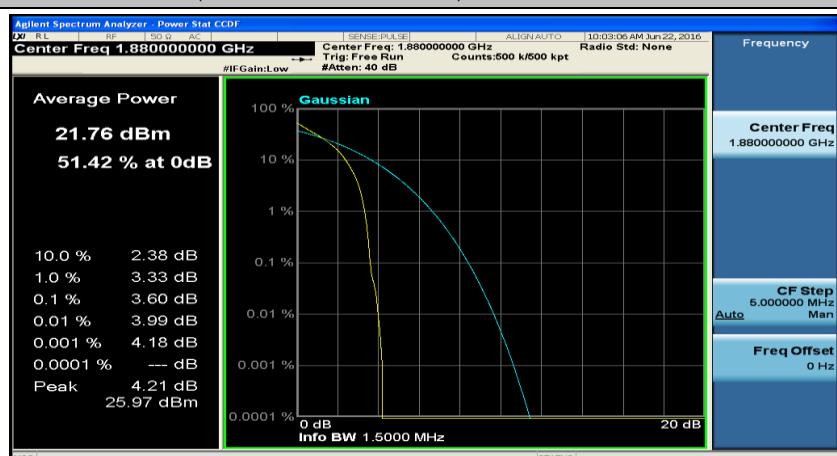
(Channel Bandwidth: 1.4 MHz)\_LCH\_QPSK\_6RB#0



(Channel Bandwidth: 1.4 MHz)\_MCH\_QPSK\_1RB#0



(Channel Bandwidth: 1.4 MHz)\_MCH\_QPSK\_1RB#3



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



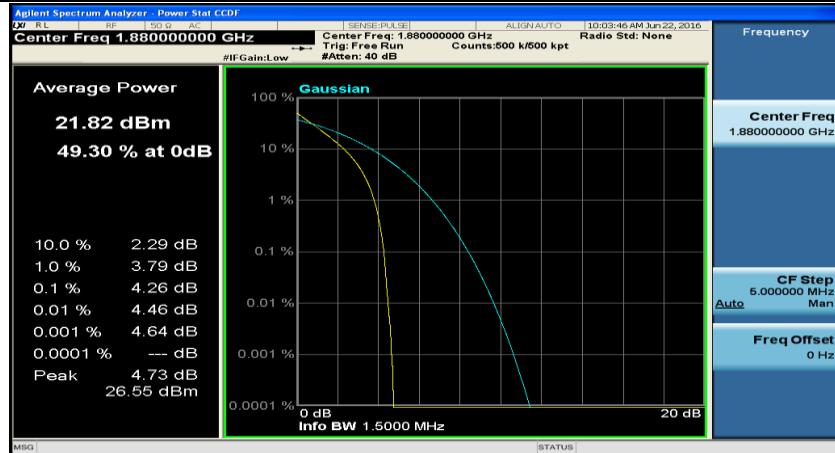
(Channel Bandwidth: 1.4 MHz)\_MCH\_QPSK\_3RB#0



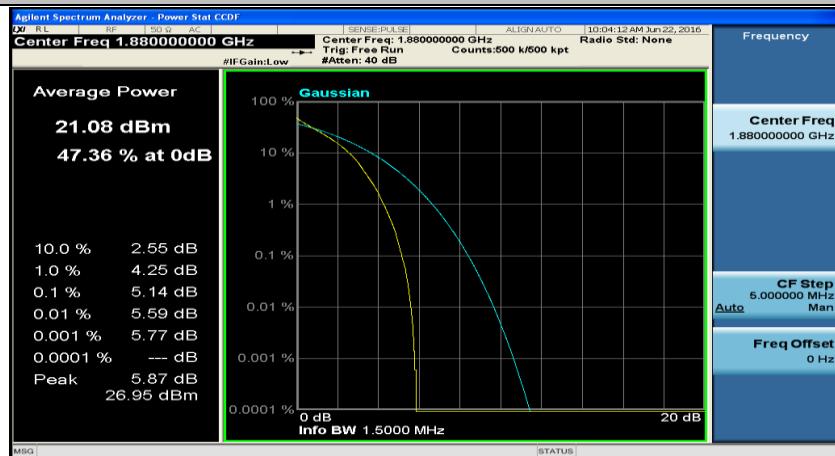
(Channel Bandwidth: 1.4 MHz)\_MCH\_QPSK\_3RB#2



(Channel Bandwidth: 1.4 MHz)\_MCH\_QPSK\_3RB#3



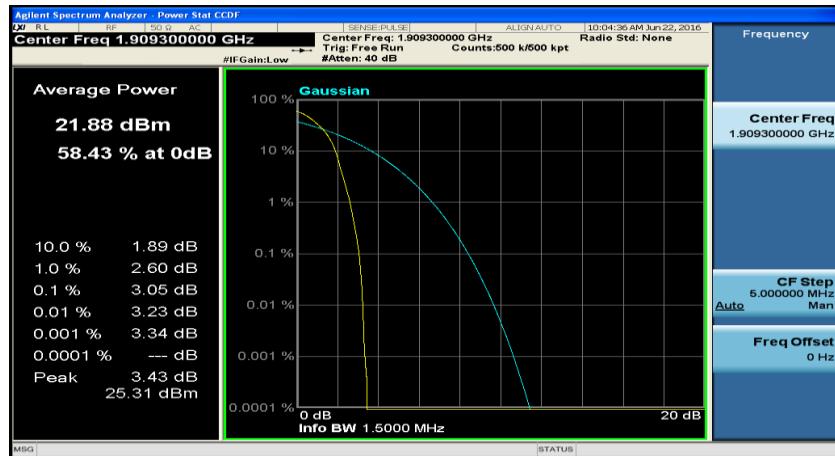
(Channel Bandwidth: 1.4 MHz)\_MCH\_QPSK\_6RB#0



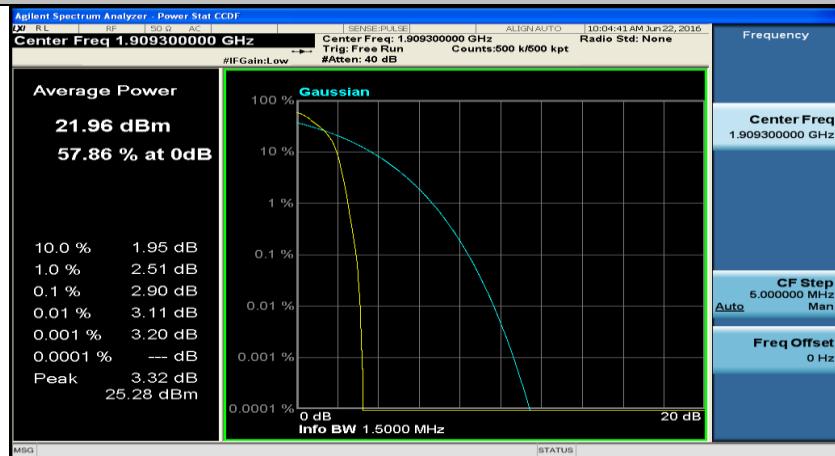
(Channel Bandwidth: 1.4 MHz)\_HCH\_QPSK\_1RB#0



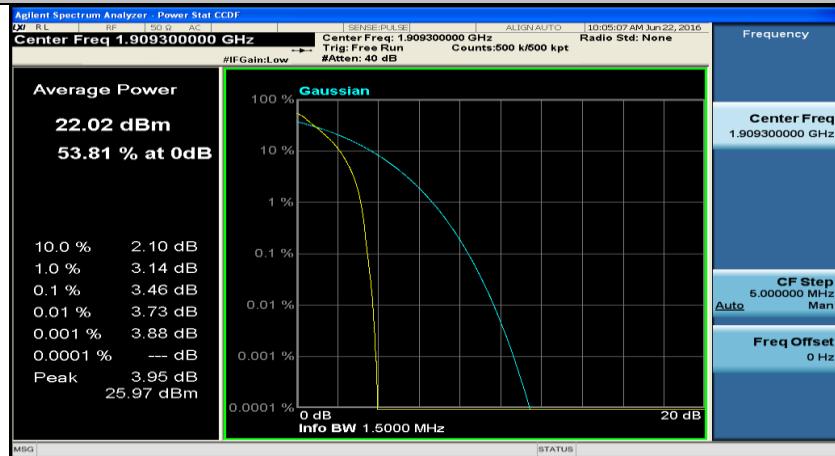
(Channel Bandwidth: 1.4 MHz)\_HCH\_QPSK\_1RB#3



(Channel Bandwidth: 1.4 MHz)\_HCH\_QPSK\_1RB#5



(Channel Bandwidth: 1.4 MHz)\_HCH\_QPSK\_3RB#0



(Channel Bandwidth: 1.4 MHz)\_HCH\_QPSK\_3RB#2



(Channel Bandwidth: 1.4 MHz)\_HCH\_QPSK\_3RB#3



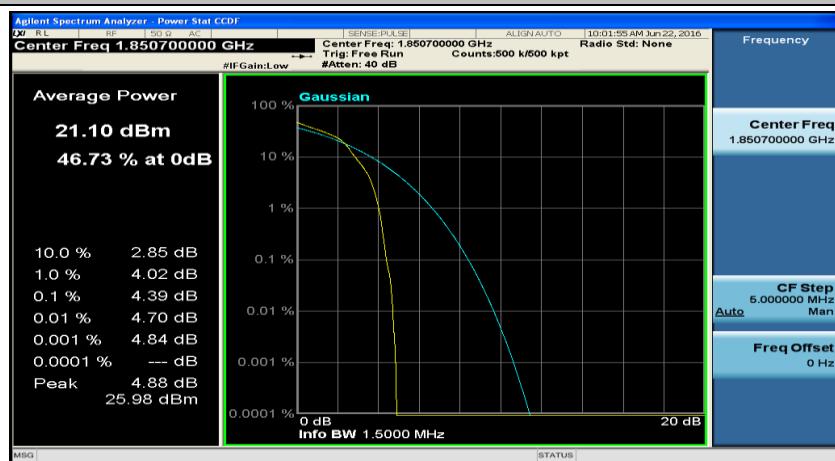
(Channel Bandwidth: 1.4 MHz)\_HCH\_QPSK\_6RB#0



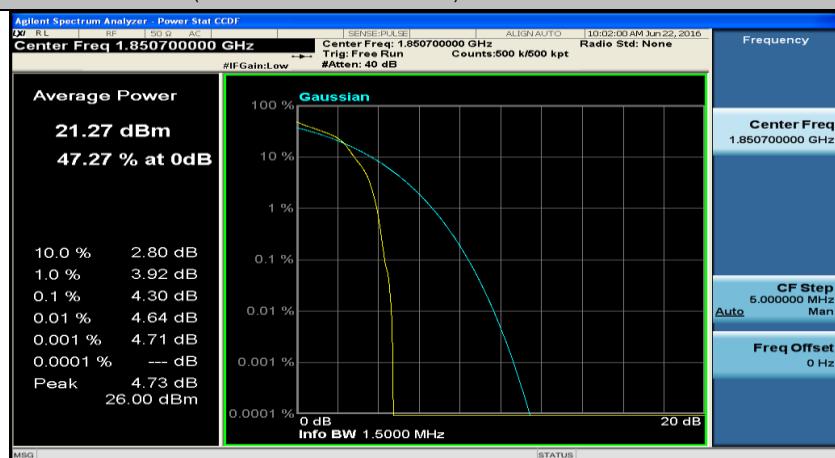
(Channel Bandwidth: 1.4 MHz)\_LCH\_16QAM\_1RB#0



(Channel Bandwidth: 1.4 MHz)\_LCH\_16QAM\_1RB#3



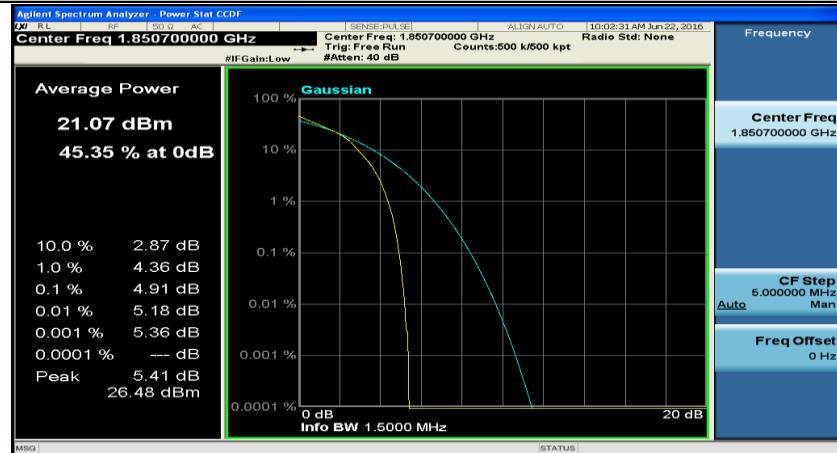
(Channel Bandwidth: 1.4 MHz)\_LCH\_16QAM\_1RB#5



(Channel Bandwidth: 1.4 MHz)\_LCH\_16QAM\_3RB#0



(Channel Bandwidth: 1.4 MHz)\_LCH\_16QAM\_3RB#2



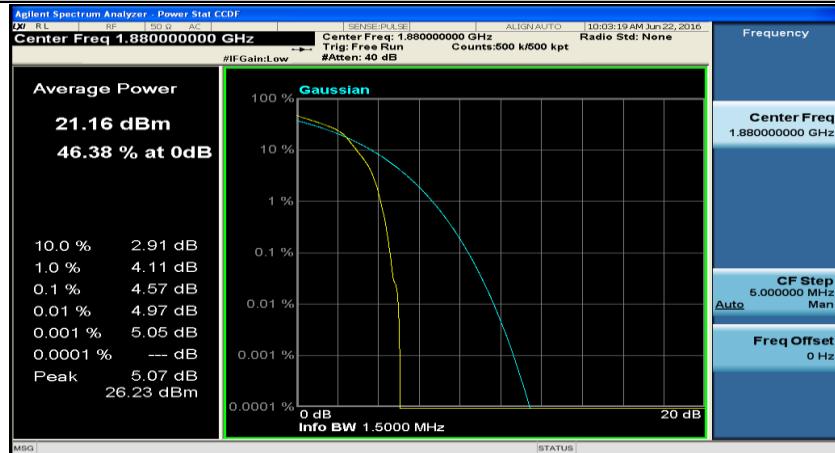
(Channel Bandwidth: 1.4 MHz)\_LCH\_16QAM\_3RB#3



(Channel Bandwidth: 1.4 MHz)\_LCH\_16QAM\_6RB#0



(Channel Bandwidth: 1.4 MHz)\_MCH\_16QAM\_1RB#0



(Channel Bandwidth: 1.4 MHz)\_MCH\_16QAM\_1RB#3



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



(Channel Bandwidth: 1.4 MHz)\_MCH\_16QAM\_3RB#0



(Channel Bandwidth: 1.4 MHz)\_MCH\_16QAM\_3RB#2



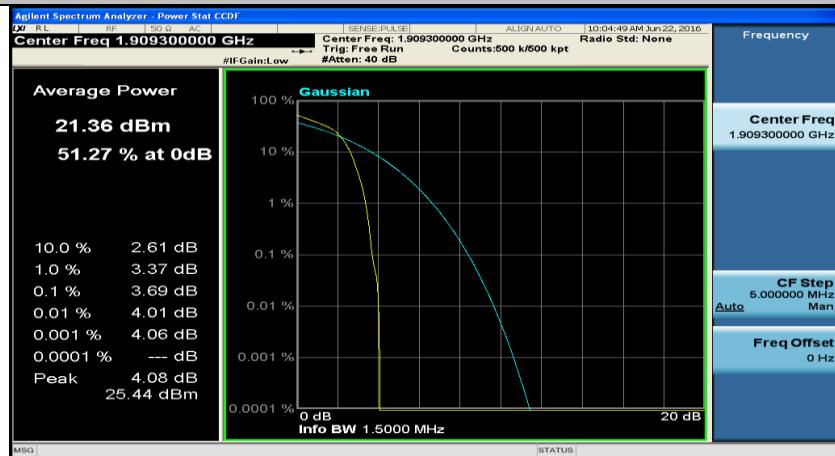
(Channel Bandwidth: 1.4 MHz)\_MCH\_16QAM\_3RB#3



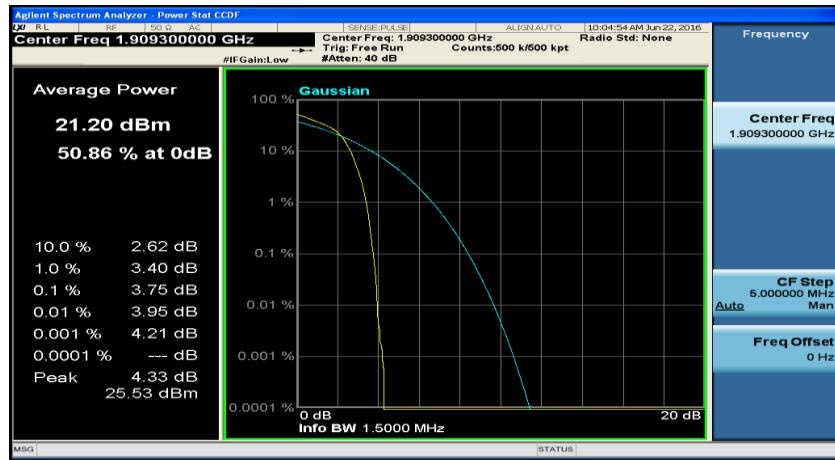
(Channel Bandwidth: 1.4 MHz)\_MCH\_16QAM\_6RB#0



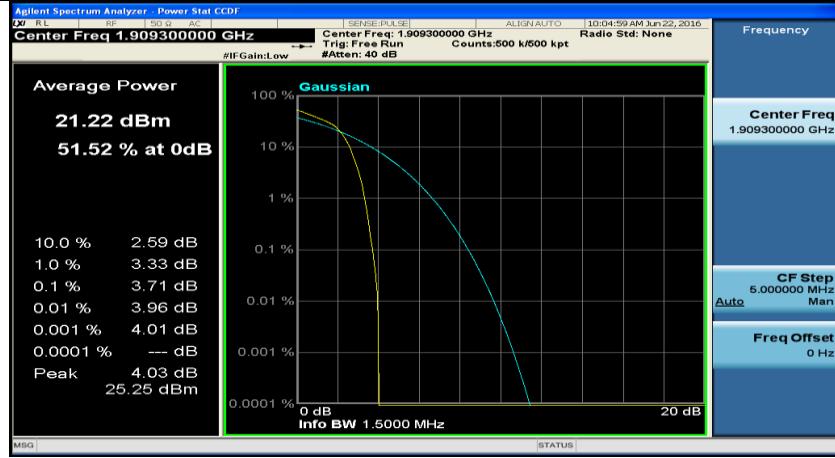
(Channel Bandwidth: 1.4 MHz)\_HCH\_16QAM\_1RB#0



(Channel Bandwidth: 1.4 MHz)\_HCH\_16QAM\_1RB#3



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



(Channel Bandwidth: 1.4 MHz)\_HCH\_16QAM\_3RB#0



(Channel Bandwidth: 1.4 MHz)\_HCH\_16QAM\_3RB#2



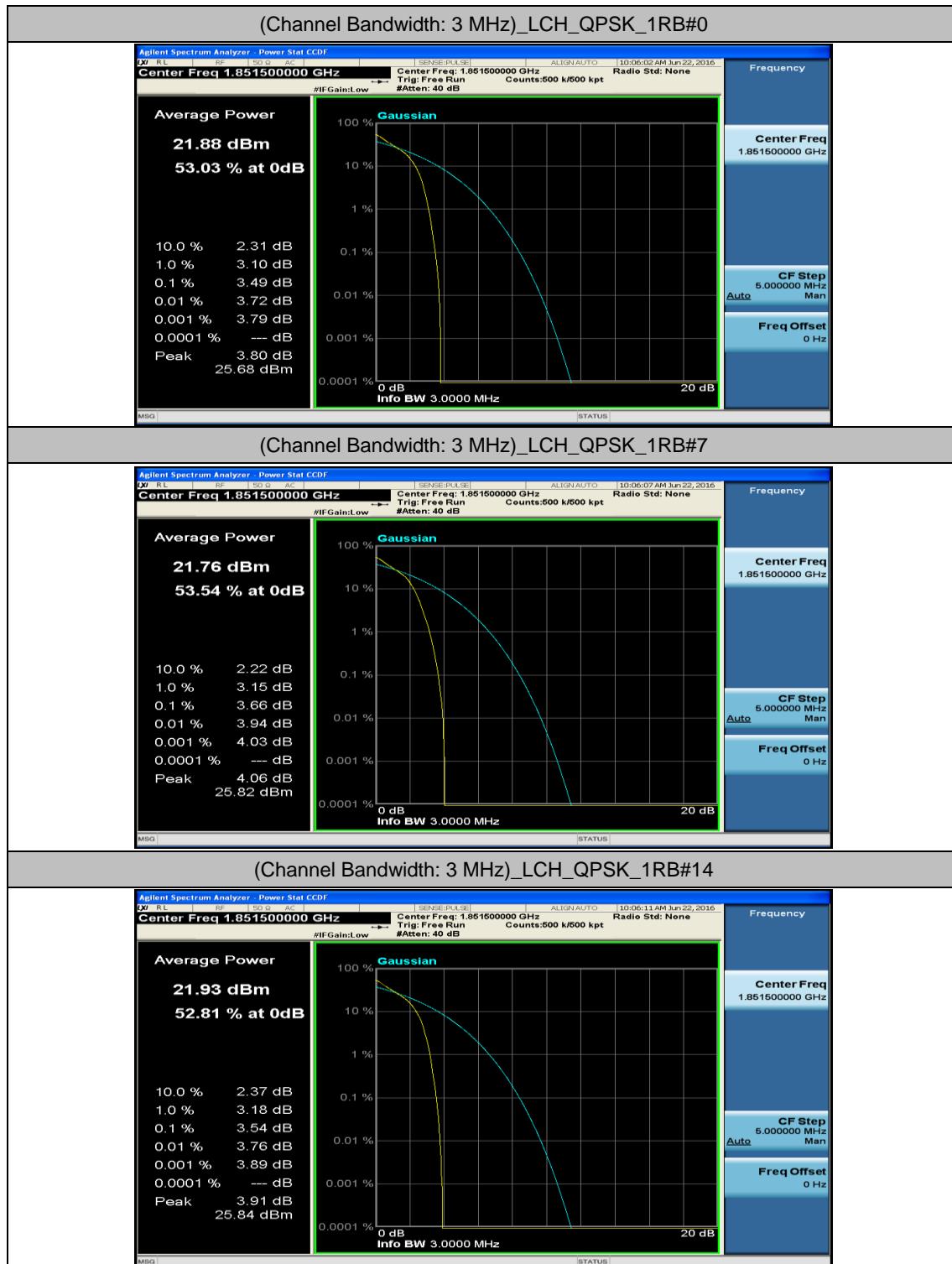
(Channel Bandwidth: 1.4 MHz)\_HCH\_16QAM\_3RB#3



(Channel Bandwidth: 1.4 MHz)\_HCH\_16QAM\_6RB#0



## Channel Bandwidth: 3 MHz



(Channel Bandwidth: 3 MHz)\_LCH\_QPSK\_8RB#0



(Channel Bandwidth: 3 MHz)\_LCH\_QPSK\_8RB#4



(Channel Bandwidth: 3 MHz)\_LCH\_QPSK\_8RB#7



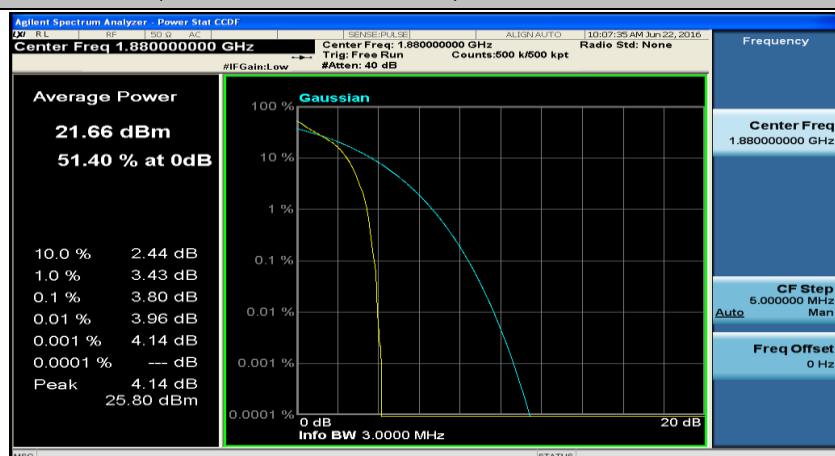
(Channel Bandwidth: 3 MHz)\_LCH\_QPSK\_15RB#0



(Channel Bandwidth: 3 MHz)\_MCH\_QPSK\_1RB#0



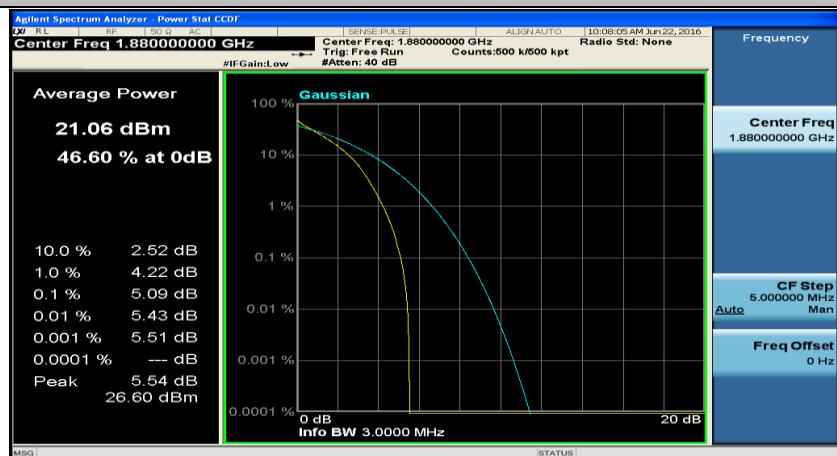
(Channel Bandwidth: 3 MHz)\_MCH\_QPSK\_1RB#7



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



(Channel Bandwidth: 3 MHz)\_MCH\_QPSK\_8RB#0



(Channel Bandwidth: 3 MHz)\_MCH\_QPSK\_8RB#4



(Channel Bandwidth: 3 MHz)\_MCH\_QPSK\_8RB#7



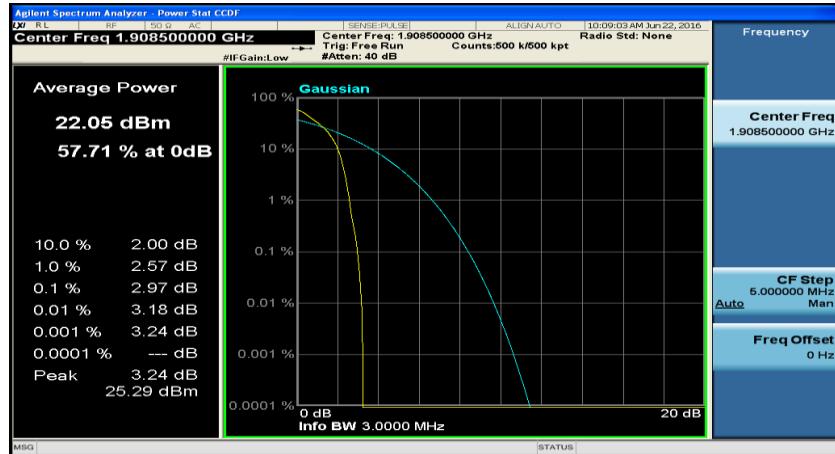
(Channel Bandwidth: 3 MHz)\_MCH\_QPSK\_15RB#0



(Channel Bandwidth: 3 MHz)\_HCH\_QPSK\_1RB#0



(Channel Bandwidth: 3 MHz)\_HCH\_QPSK\_1RB#7



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



(Channel Bandwidth: 3 MHz)\_HCH\_QPSK\_8RB#0



(Channel Bandwidth: 3 MHz)\_HCH\_QPSK\_8RB#4



(Channel Bandwidth: 3 MHz)\_HCH\_QPSK\_8RB#7



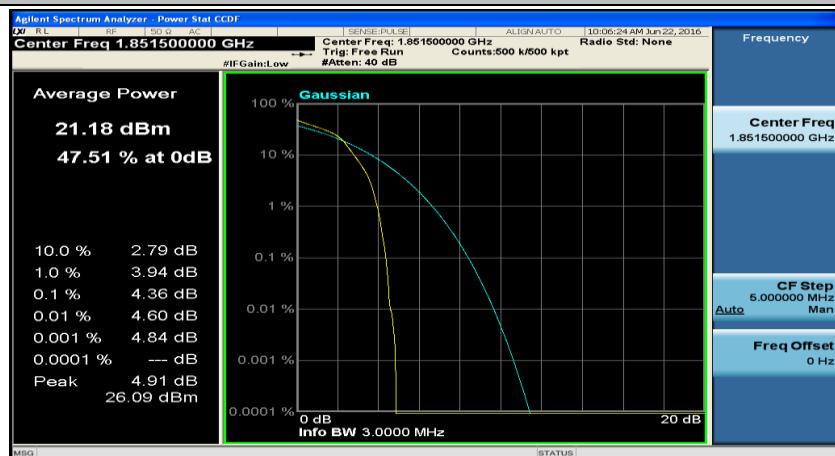
(Channel Bandwidth: 3 MHz)\_HCH\_QPSK\_15RB#0



(Channel Bandwidth: 3 MHz)\_LCH\_16QAM\_1RB#0



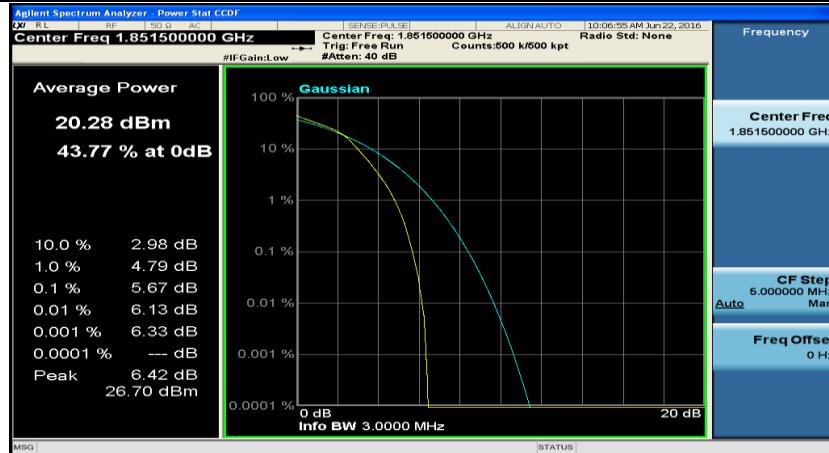
(Channel Bandwidth: 3 MHz)\_LCH\_16QAM\_1RB#7



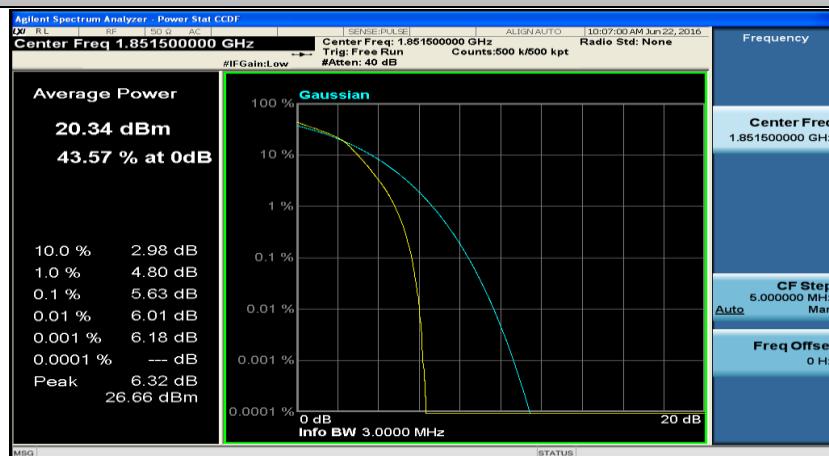
(Channel Bandwidth: 3 MHz)\_LCH\_16QAM\_1RB#14



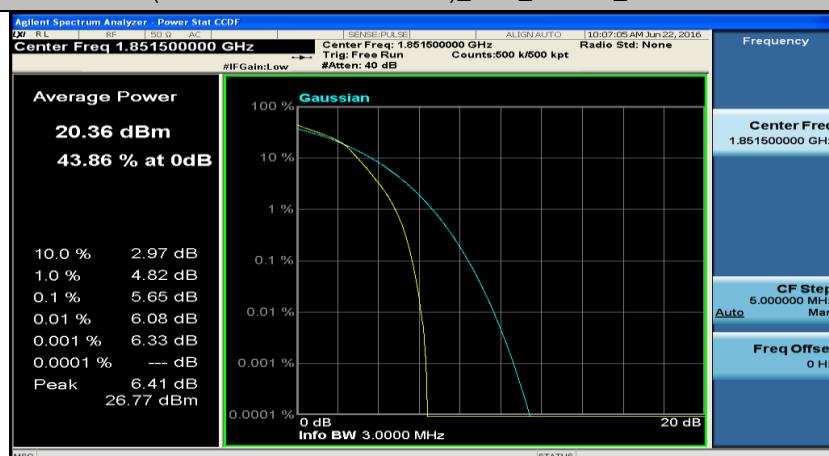
(Channel Bandwidth: 3 MHz)\_LCH\_16QAM\_8RB#0



(Channel Bandwidth: 3 MHz)\_LCH\_16QAM\_8RB#4



(Channel Bandwidth: 3 MHz)\_LCH\_16QAM\_8RB#7



(Channel Bandwidth: 3 MHz)\_LCH\_16QAM\_15RB#0



(Channel Bandwidth: 3 MHz)\_MCH\_16QAM\_1RB#0



(Channel Bandwidth: 3 MHz)\_MCH\_16QAM\_1RB#7



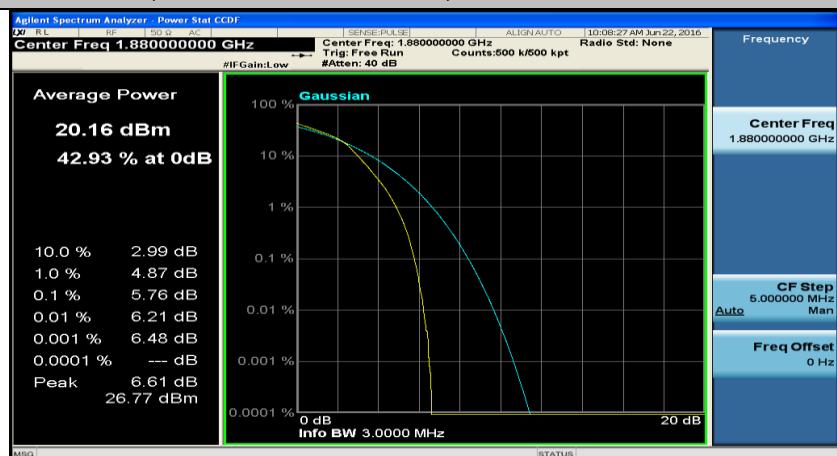
(Channel Bandwidth: 3 MHz)\_MCH\_16QAM\_1RB#14



(Channel Bandwidth: 3 MHz)\_MCH\_16QAM\_8RB#0



(Channel Bandwidth: 3 MHz)\_MCH\_16QAM\_8RB#4



(Channel Bandwidth: 3 MHz)\_MCH\_16QAM\_8RB#7



(Channel Bandwidth: 3 MHz)\_MCH\_16QAM\_15RB#0



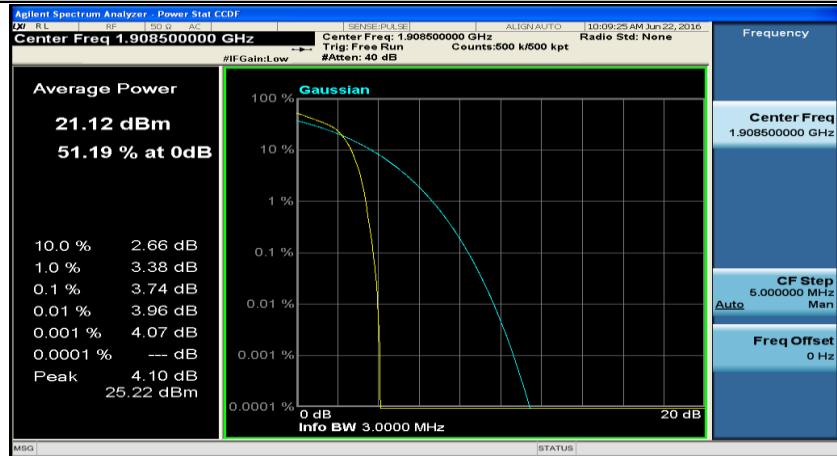
(Channel Bandwidth: 3 MHz)\_HCH\_16QAM\_1RB#0



(Channel Bandwidth: 3 MHz)\_HCH\_16QAM\_1RB#7



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



(Channel Bandwidth: 3 MHz)\_HCH\_16QAM\_8RB#0



(Channel Bandwidth: 3 MHz)\_HCH\_16QAM\_8RB#4



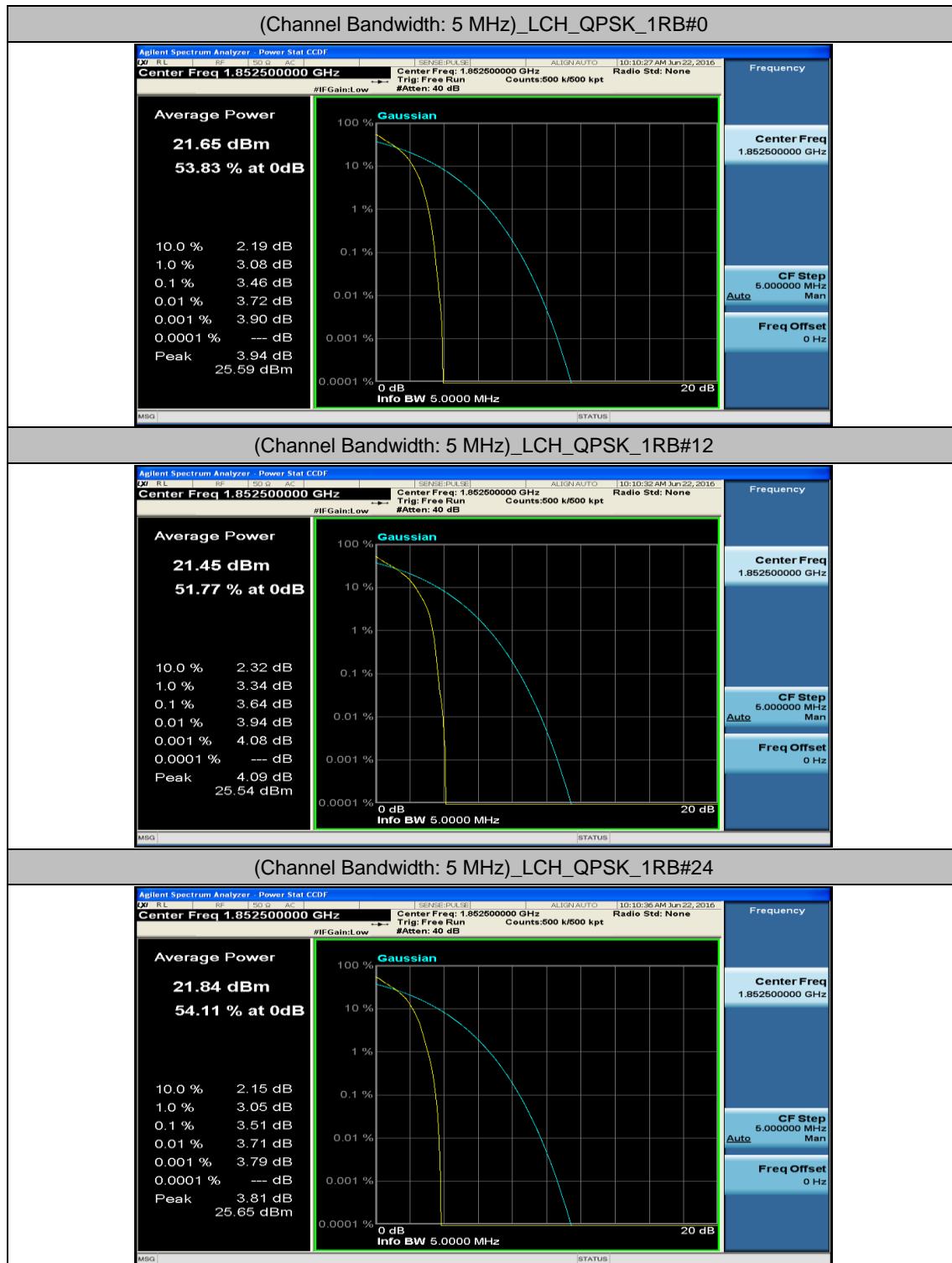
(Channel Bandwidth: 3 MHz)\_HCH\_16QAM\_8RB#7



(Channel Bandwidth: 3 MHz)\_HCH\_16QAM\_15RB#0



## Channel Bandwidth: 5 MHz



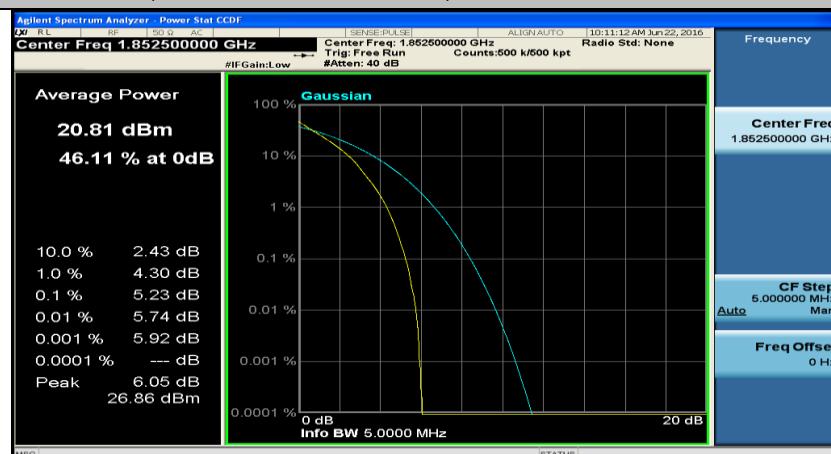
(Channel Bandwidth: 5 MHz)\_LCH\_QPSK\_12RB#0



(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



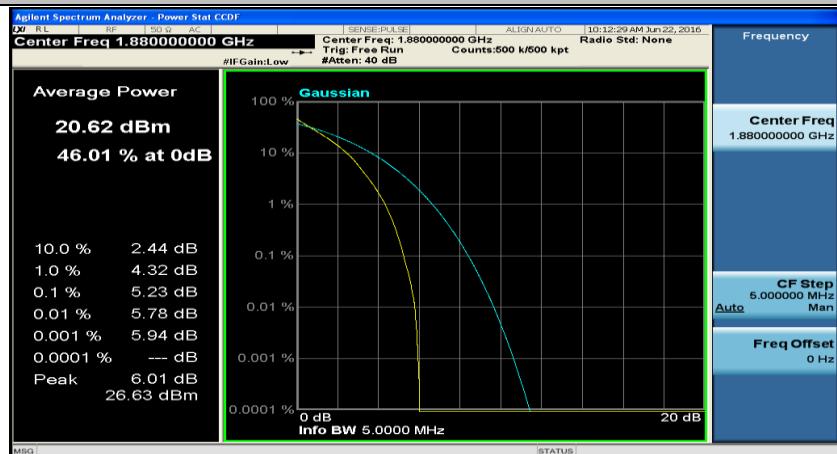
(Channel Bandwidth: 5 MHz)\_MCH\_QPSK\_1RB#12



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



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



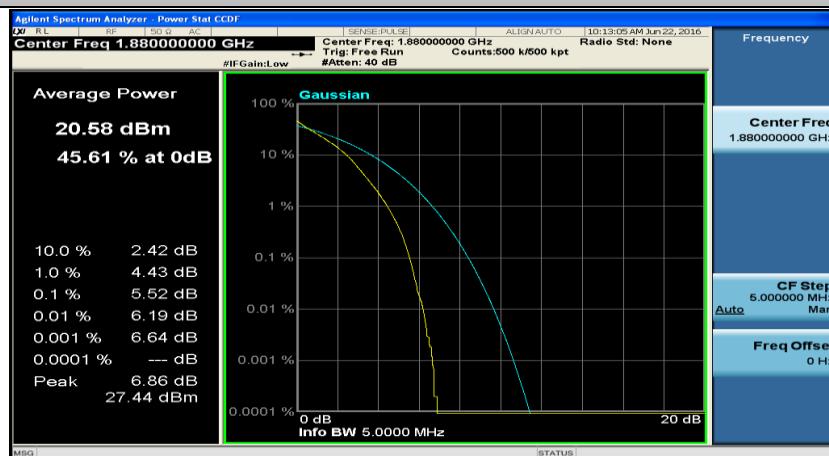
(Channel Bandwidth: 5 MHz)\_MCH\_QPSK\_12RB#6



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



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



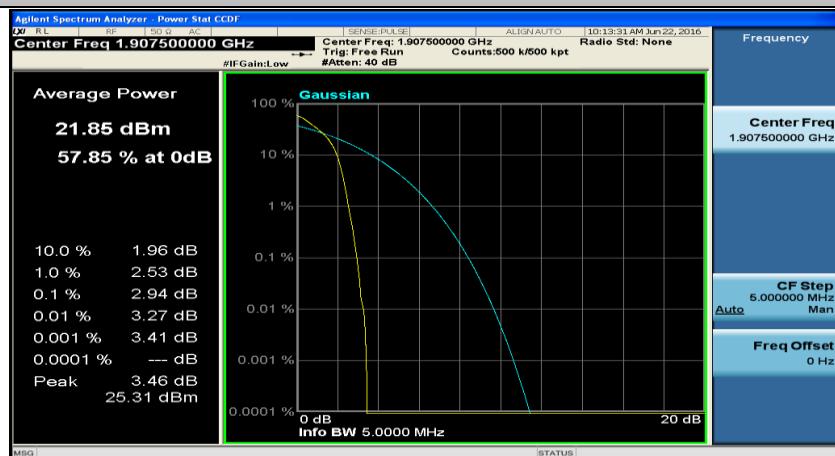
(Channel Bandwidth: 5 MHz)\_HCH\_QPSK\_1RB#0



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



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



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

