

## 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	3.06	<13	PASS
		1	3	3.13	<13	PASS
		1	5	3.04	<13	PASS
		3	0	3.13	<13	PASS
		3	2	3.08	<13	PASS
		3	3	3.11	<13	PASS
		6	0	4.19	<13	PASS
	MCH	1	0	3.84	<13	PASS
		1	3	4.01	<13	PASS
		1	5	3.82	<13	PASS
		3	0	4.17	<13	PASS
		3	2	4.19	<13	PASS
		3	3	4.2	<13	PASS
		6	0	5.04	<13	PASS
	HCH	1	0	2.92	<13	PASS
		1	3	3.08	<13	PASS
		1	5	3.07	<13	PASS
		3	0	3.12	<13	PASS
		3	2	3.13	<13	PASS
		3	3	3.2	<13	PASS
		6	0	4.13	<13	PASS
16QAM	LCH	1	0	3.83	<13	PASS
		1	3	3.91	<13	PASS
		1	5	3.94	<13	PASS
		3	0	3.98	<13	PASS
		3	2	3.95	<13	PASS
		3	3	3.94	<13	PASS
		6	0	4.99	<13	PASS
	MCH	1	0	4.92	<13	PASS
		1	3	4.91	<13	PASS
		1	5	4.89	<13	PASS
		3	0	5.04	<13	PASS
		3	2	5.01	<13	PASS
		3	3	5.04	<13	PASS
		6	0	5.77	<13	PASS
	HCH	1	0	3.71	<13	PASS
		1	3	3.83	<13	PASS
		1	5	3.88	<13	PASS
		3	0	3.75	<13	PASS
		3	2	3.75	<13	PASS
		3	3	3.81	<13	PASS
		6	0	4.74	<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	3.05	<13	PASS
		1	7	3.04	<13	PASS
		1	14	2.94	<13	PASS
		8	0	3.99	<13	PASS
		8	4	3.83	<13	PASS
		8	7	3.97	<13	PASS
		15	0	4.51	<13	PASS
	MCH	1	0	3.98	<13	PASS
		1	7	3.73	<13	PASS
		1	14	4.02	<13	PASS
		8	0	4.97	<13	PASS
		8	4	4.93	<13	PASS
		8	7	4.96	<13	PASS
		15	0	5.25	<13	PASS
	HCH	1	0	2.67	<13	PASS
		1	7	2.87	<13	PASS
		1	14	3.05	<13	PASS
		8	0	3.77	<13	PASS
		8	4	3.68	<13	PASS
		8	7	3.91	<13	PASS
		15	0	4.39	<13	PASS
16QAM	LCH	1	0	3.88	<13	PASS
		1	7	3.81	<13	PASS
		1	14	3.87	<13	PASS
		8	0	4.74	<13	PASS
		8	4	4.64	<13	PASS
		8	7	4.71	<13	PASS
		15	0	5.32	<13	PASS
	MCH	1	0	4.88	<13	PASS
		1	7	4.96	<13	PASS
		1	14	4.87	<13	PASS
		8	0	5.58	<13	PASS
		8	4	5.56	<13	PASS
		8	7	5.61	<13	PASS
		15	0	5.93	<13	PASS
	HCH	1	0	3.46	<13	PASS
		1	7	3.63	<13	PASS
		1	14	3.8	<13	PASS
		8	0	4.38	<13	PASS
		8	4	4.37	<13	PASS
		8	7	4.51	<13	PASS
		15	0	4.96	<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	3.08	<13	PASS
		1	12	3.14	<13	PASS
		1	24	2.9	<13	PASS
		12	0	4.12	<13	PASS
		12	6	3.97	<13	PASS
		12	13	3.94	<13	PASS
		25	0	4.54	<13	PASS
	MCH	1	0	3.97	<13	PASS
		1	12	4.25	<13	PASS
		1	24	3.96	<13	PASS
		12	0	5.06	<13	PASS
		12	6	5.05	<13	PASS
		12	13	5.1	<13	PASS
		25	0	5.35	<13	PASS
	HCH	1	0	2.63	<13	PASS
		1	12	3.05	<13	PASS
		1	24	2.88	<13	PASS
		12	0	3.75	<13	PASS
		12	6	3.78	<13	PASS
		12	13	3.99	<13	PASS
		25	0	4.38	<13	PASS
16QAM	LCH	1	0	3.93	<13	PASS
		1	12	3.96	<13	PASS
		1	24	3.8	<13	PASS
		12	0	4.87	<13	PASS
		12	6	4.75	<13	PASS
		12	13	4.76	<13	PASS
		25	0	5.21	<13	PASS
	MCH	1	0	4.89	<13	PASS
		1	12	5.15	<13	PASS
		1	24	4.69	<13	PASS
		12	0	5.79	<13	PASS
		12	6	5.81	<13	PASS
		12	13	5.81	<13	PASS
		25	0	6	<13	PASS
	HCH	1	0	3.25	<13	PASS
		1	12	3.61	<13	PASS
		1	24	3.76	<13	PASS
		12	0	4.49	<13	PASS
		12	6	4.57	<13	PASS
		12	13	4.72	<13	PASS
		25	0	5	<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	3.39	<13	PASS
		1	24	3.11	<13	PASS
		1	49	3.37	<13	PASS
		25	0	4.3	<13	PASS
		25	12	4.01	<13	PASS
		25	25	4.23	<13	PASS
		50	0	4.74	<13	PASS
	MCH	1	0	4.19	<13	PASS
		1	24	4.38	<13	PASS
		1	49	4.26	<13	PASS
		25	0	5.1	<13	PASS
		25	12	5.12	<13	PASS
		25	25	5.24	<13	PASS
		50	0	5.37	<13	PASS
16QAM	LCH	1	0	2.88	<13	PASS
		1	24	2.77	<13	PASS
		1	49	3.3	<13	PASS
		25	0	3.97	<13	PASS
		25	12	3.69	<13	PASS
		25	25	4.05	<13	PASS
		50	0	4.55	<13	PASS
	MCH	1	0	4.27	<13	PASS
		1	24	3.92	<13	PASS
		1	49	4.14	<13	PASS
		25	0	5.03	<13	PASS
		25	12	4.83	<13	PASS
		25	25	5.02	<13	PASS
		50	0	5.36	<13	PASS
	HCH	1	0	4.83	<13	PASS
		1	24	5.19	<13	PASS
		1	49	5.15	<13	PASS
		25	0	5.88	<13	PASS
		25	12	5.89	<13	PASS
		25	25	5.94	<13	PASS
		50	0	6.03	<13	PASS

## Channel Bandwidth: 15 MHz

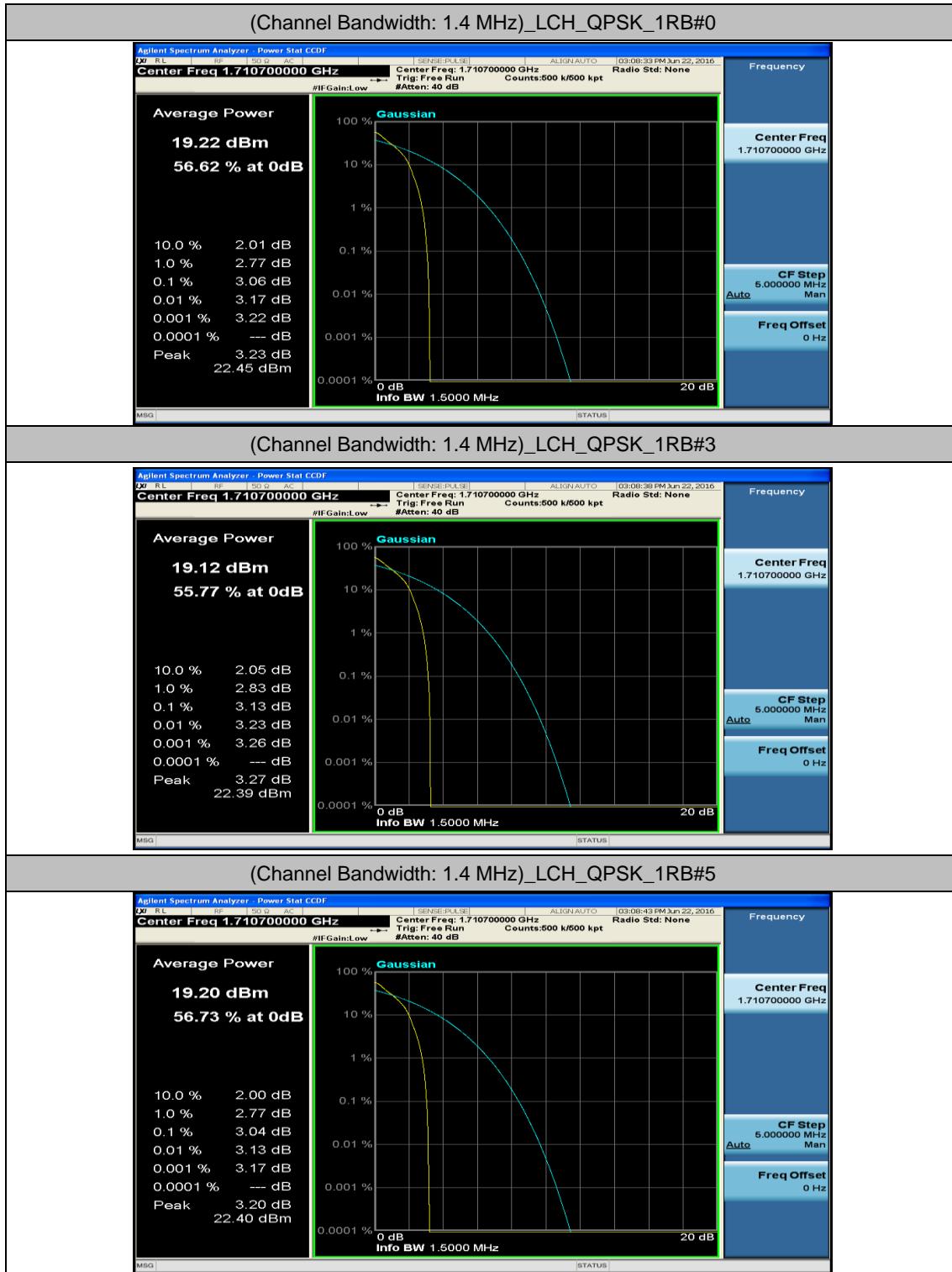
Channel Bandwidth: 15 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	LCH	1	0	8.82	<13	PASS
		1	37	2.98	<13	PASS
		1	74	10.5	<13	PASS
		37	0	4.29	<13	PASS
		37	18	4.43	<13	PASS
		37	38	4.47	<13	PASS
		75	0	4.83	<13	PASS
	MCH	1	0	8.85	<13	PASS
		1	37	4.38	<13	PASS
		1	74	10.03	<13	PASS
		37	0	4.51	<13	PASS
		37	18	5.3	<13	PASS
		37	38	4.68	<13	PASS
		75	0	5	<13	PASS
16QAM	LCH	1	0	8.92	<13	PASS
		1	37	2.91	<13	PASS
		1	74	11.06	<13	PASS
		37	0	4.21	<13	PASS
		37	18	4.14	<13	PASS
		37	38	4.4	<13	PASS
		75	0	4.77	<13	PASS
	MCH	1	0	8.82	<13	PASS
		1	37	3.94	<13	PASS
		1	74	10.56	<13	PASS
		37	0	5.29	<13	PASS
		37	18	5.05	<13	PASS
		37	38	5.49	<13	PASS
		75	0	5.78	<13	PASS
	HCH	1	0	8.47	<13	PASS
		1	37	5.19	<13	PASS
		1	74	10.76	<13	PASS
		37	0	5.68	<13	PASS
		37	18	5.98	<13	PASS
		37	38	5.85	<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	8.82	<13	PASS
		1	49	3.33	<13	PASS
		1	99	8.89	<13	PASS
		50	0	5.19	<13	PASS
		50	25	4.88	<13	PASS
		50	50	5.56	<13	PASS
		100	0	5.76	<13	PASS
	MCH	1	0	8.8	<13	PASS
		1	49	4.36	<13	PASS
		1	99	8.93	<13	PASS
		50	0	5.43	<13	PASS
		50	25	5.34	<13	PASS
		50	50	5.75	<13	PASS
		100	0	5.76	<13	PASS
	HCH	1	0	9.12	<13	PASS
		1	49	3.11	<13	PASS
		1	99	9.62	<13	PASS
		50	0	5.25	<13	PASS
		50	25	4.61	<13	PASS
		50	50	5.5	<13	PASS
		100	0	5.65	<13	PASS
16QAM	LCH	1	0	8.77	<13	PASS
		1	49	3.95	<13	PASS
		1	99	8.8	<13	PASS
		50	0	6.11	<13	PASS
		50	25	5.48	<13	PASS
		50	50	6.25	<13	PASS
		100	0	6.49	<13	PASS
	MCH	1	0	8.82	<13	PASS
		1	49	5.22	<13	PASS
		1	99	8.86	<13	PASS
		50	0	6.35	<13	PASS
		50	25	6.09	<13	PASS
		50	50	6.46	<13	PASS
		100	0	6.64	<13	PASS
	HCH	1	0	9.14	<13	PASS
		1	49	3.77	<13	PASS
		1	99	9.69	<13	PASS
		50	0	6.21	<13	PASS
		50	25	5.3	<13	PASS
		50	50	6.2	<13	PASS
		100	0	6.38	<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



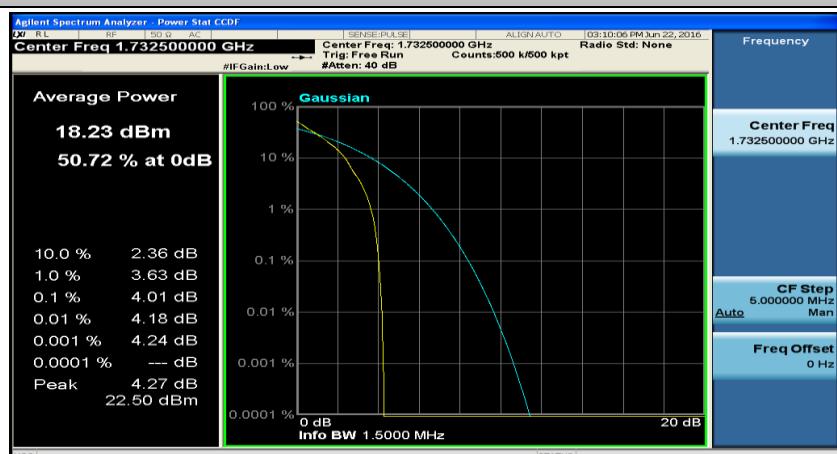
(Channel Bandwidth: 1.4 MHz)\_LCH\_QPSK\_6RB#0



(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



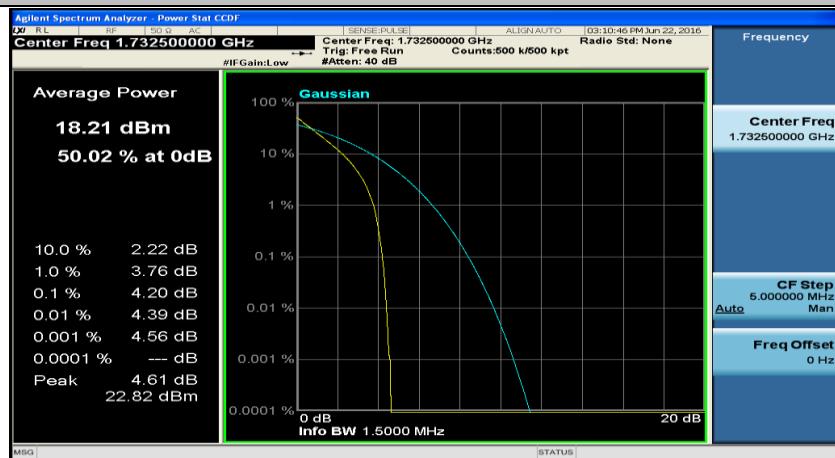
(Channel Bandwidth: 1.4 MHz)\_MCH\_QPSK\_3RB#0



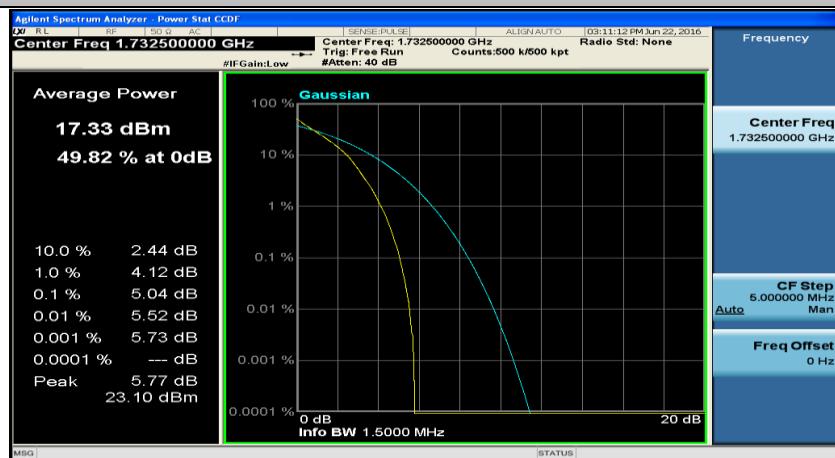
(Channel Bandwidth: 1.4 MHz)\_MCH\_QPSK\_3RB#2



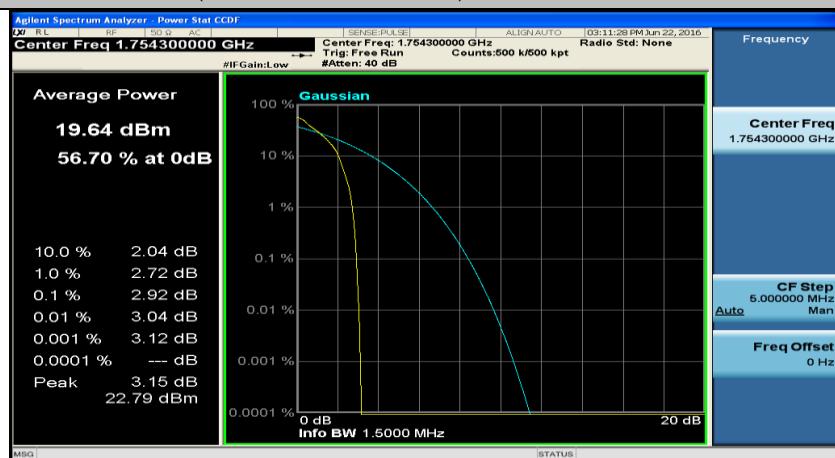
(Channel Bandwidth: 1.4 MHz)\_MCH\_QPSK\_3RB#3



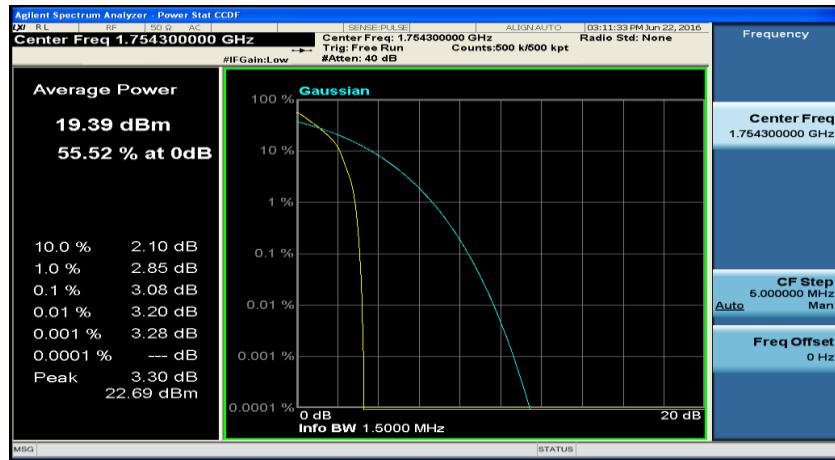
(Channel Bandwidth: 1.4 MHz)\_MCH\_QPSK\_6RB#0



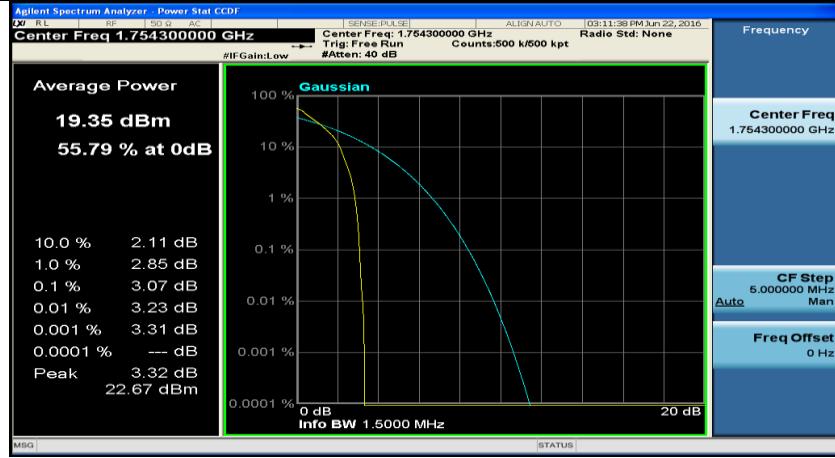
(Channel Bandwidth: 1.4 MHz)\_HCH\_QPSK\_1RB#0



(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



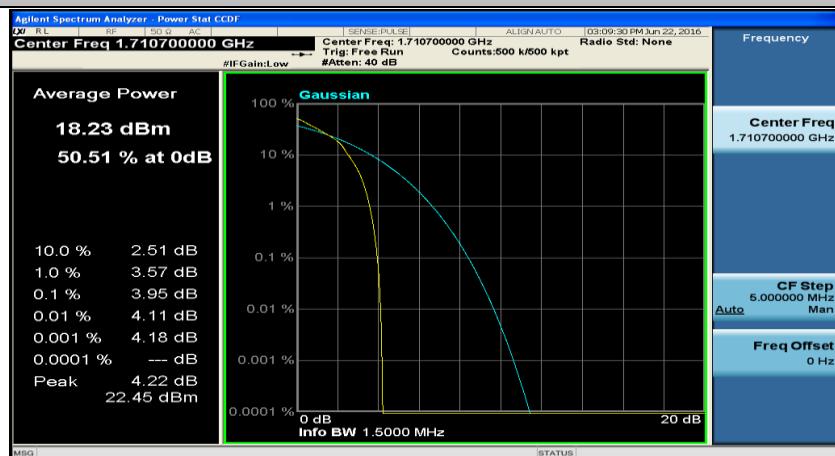
(Channel Bandwidth: 1.4 MHz)\_LCH\_16QAM\_1RB#5



(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



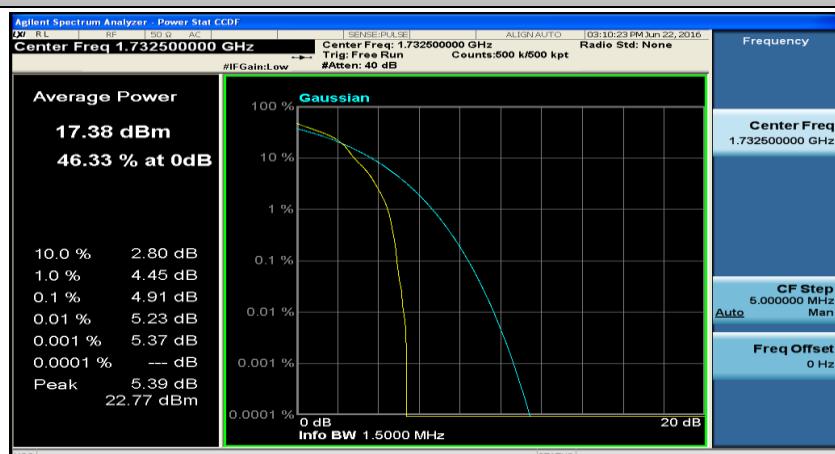
(Channel Bandwidth: 1.4 MHz)\_LCH\_16QAM\_6RB#0



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



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



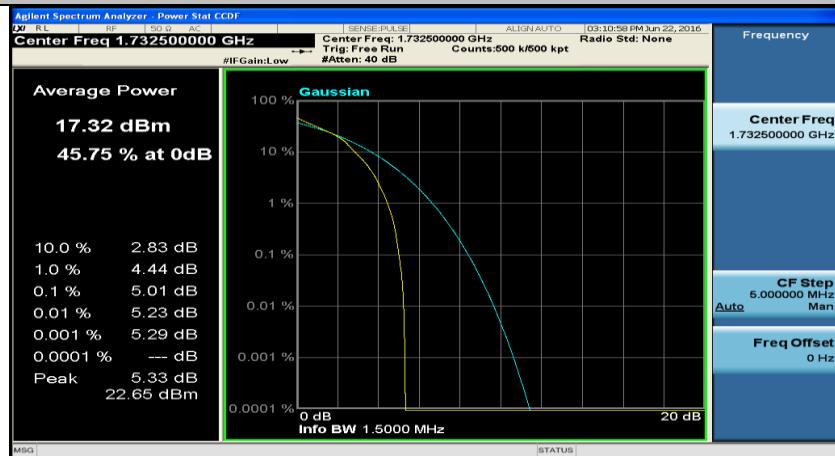
(Channel Bandwidth: 1.4 MHz)\_MCH\_16QAM\_1RB#5



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



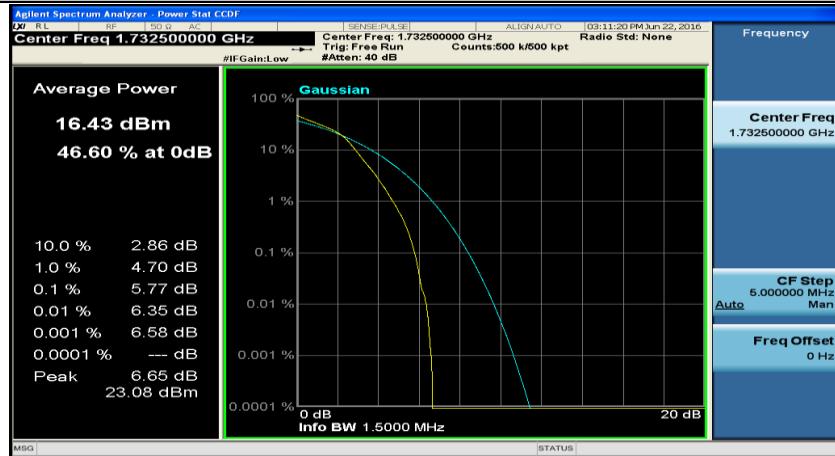
(Channel Bandwidth: 1.4 MHz)\_MCH\_16QAM\_3RB#2



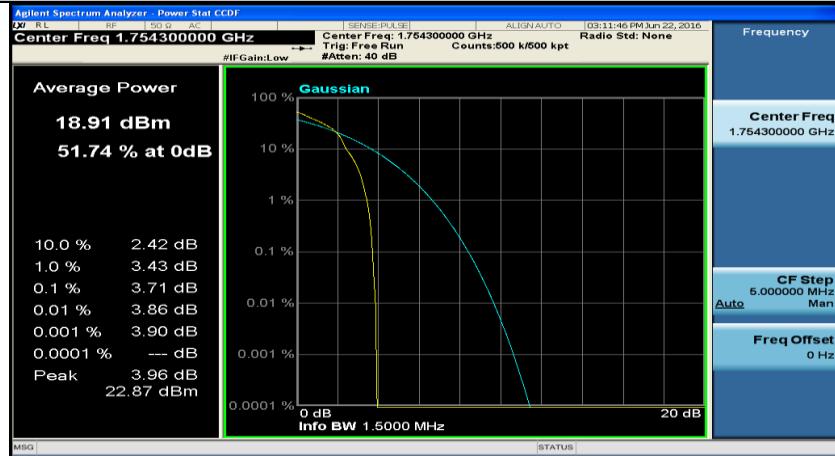
(Channel Bandwidth: 1.4 MHz)\_MCH\_16QAM\_3RB#3



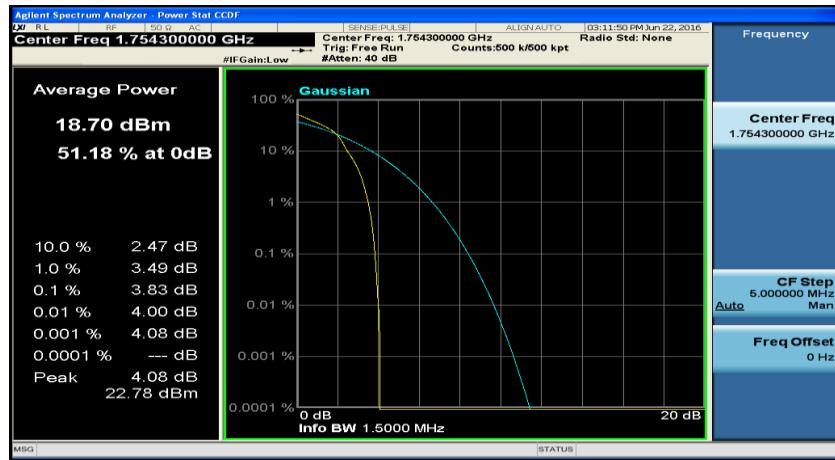
(Channel Bandwidth: 1.4 MHz)\_MCH\_16QAM\_6RB#0



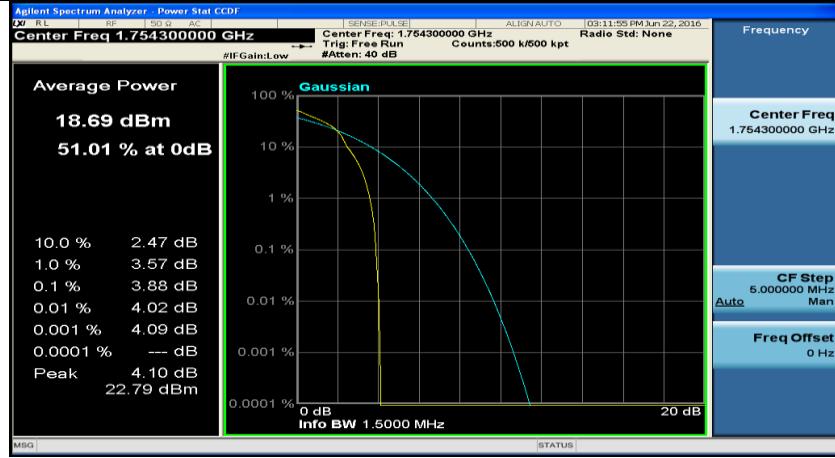
(Channel Bandwidth: 1.4 MHz)\_HCH\_16QAM\_1RB#0



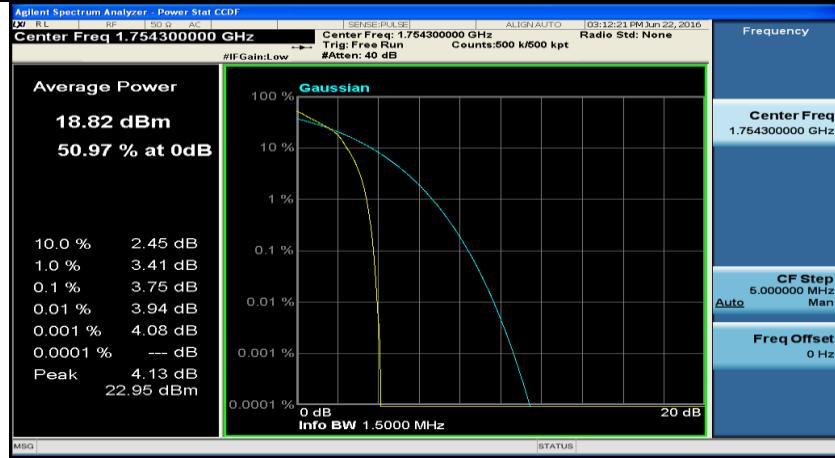
(Channel Bandwidth: 1.4 MHz)\_HCH\_16QAM\_1RB#3



(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



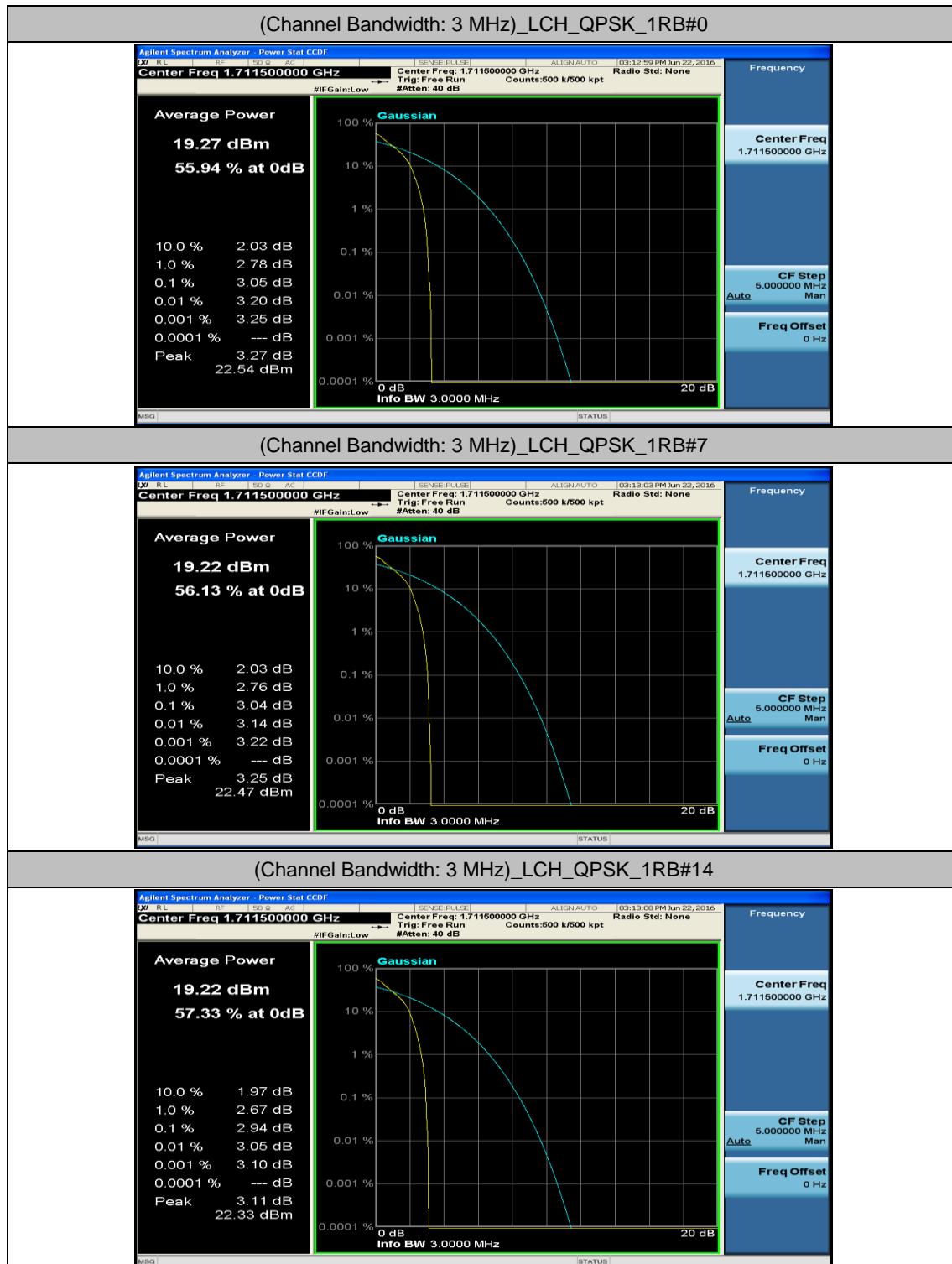
(Channel Bandwidth: 1.4 MHz)\_HCH\_16QAM\_3RB#3



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



## Channel Bandwidth: 3 MHz



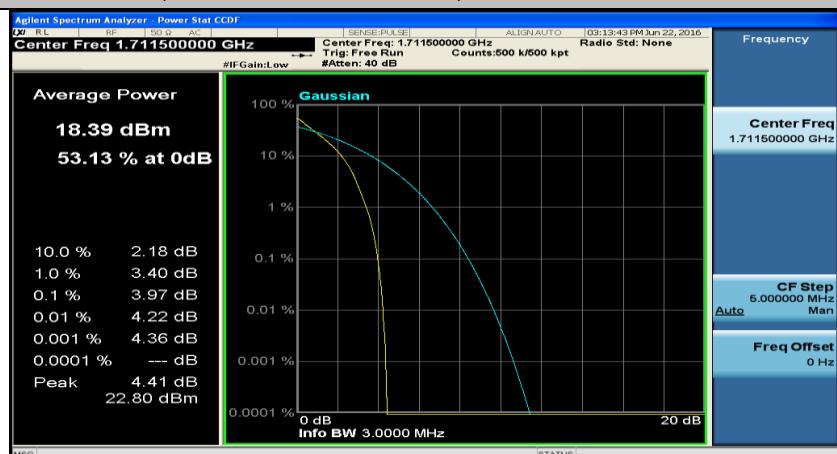
(Channel Bandwidth: 3 MHz)\_LCH\_QPSK\_8RB#0



(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



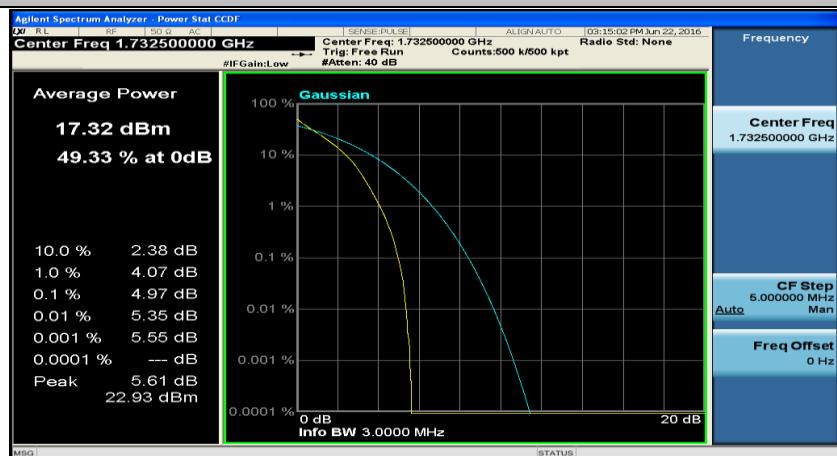
(Channel Bandwidth: 3 MHz)\_MCH\_QPSK\_1RB#7



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



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



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



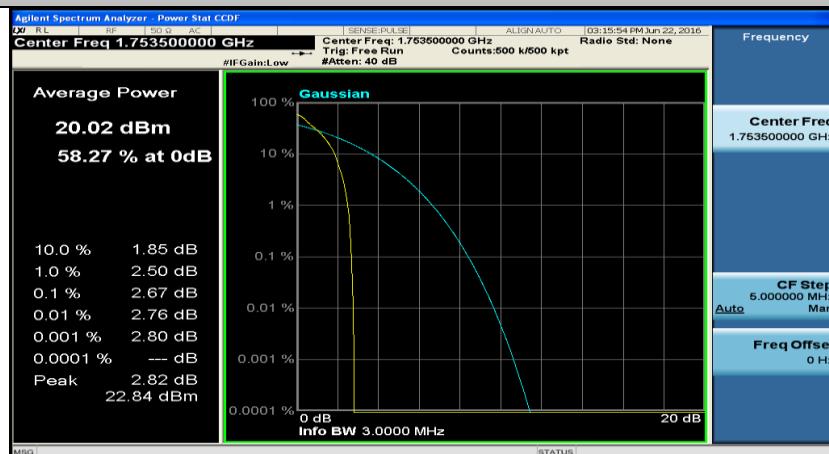
(Channel Bandwidth: 3 MHz)\_MCH\_QPSK\_8RB#7



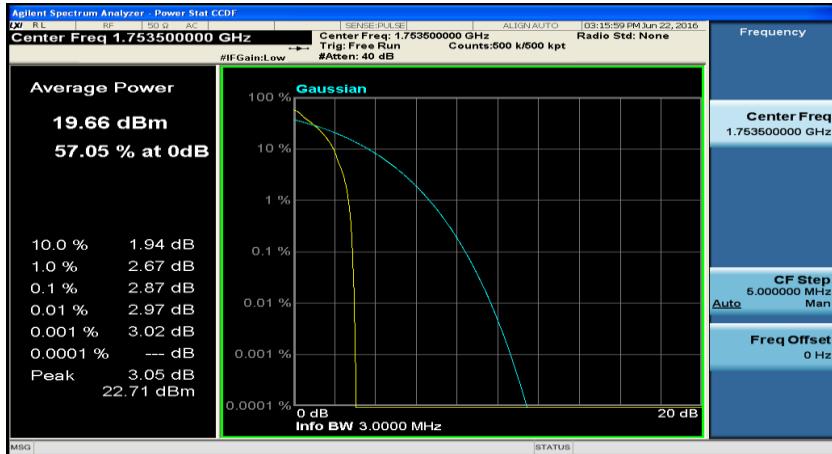
(Channel Bandwidth: 3 MHz)\_MCH\_QPSK\_15RB#0



(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



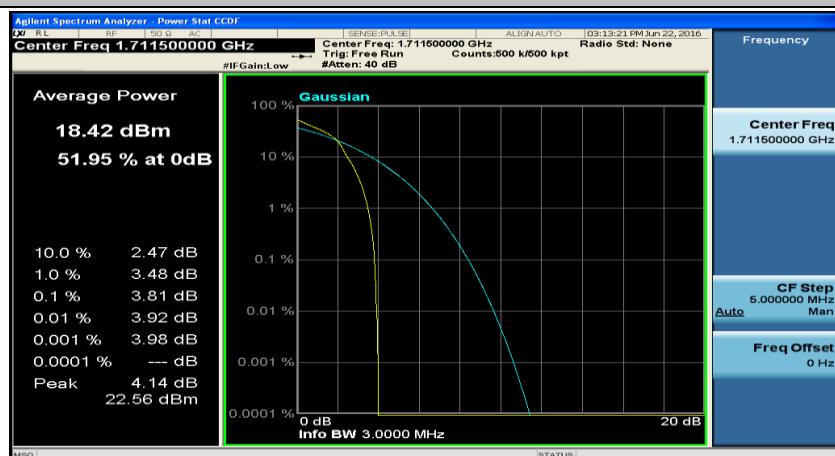
(Channel Bandwidth: 3 MHz)\_HCH\_QPSK\_15RB#0



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



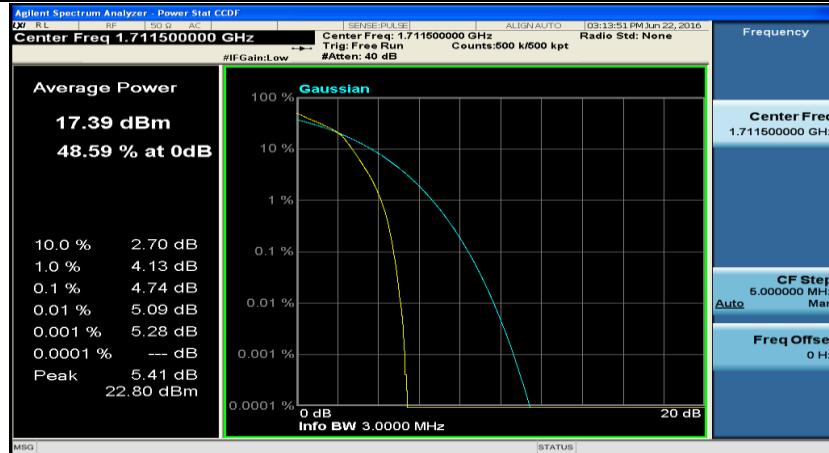
(Channel Bandwidth: 3 MHz)\_LCH\_16QAM\_1RB#7



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



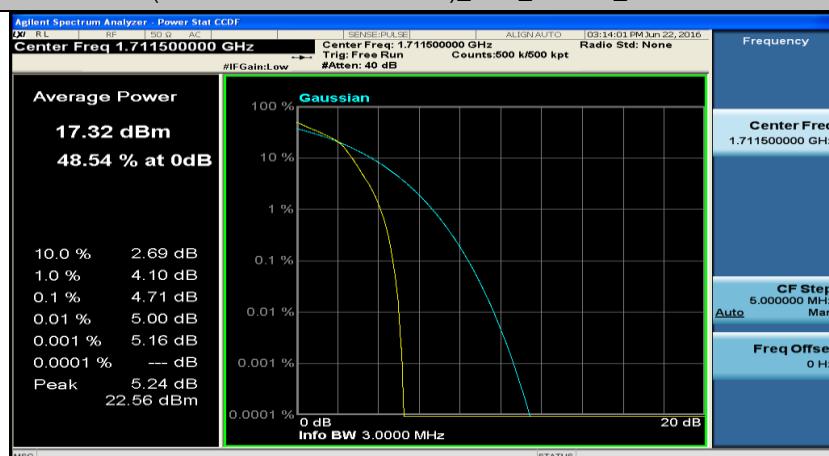
(Channel Bandwidth: 3 MHz)\_LCH\_16QAM\_8RB#0



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



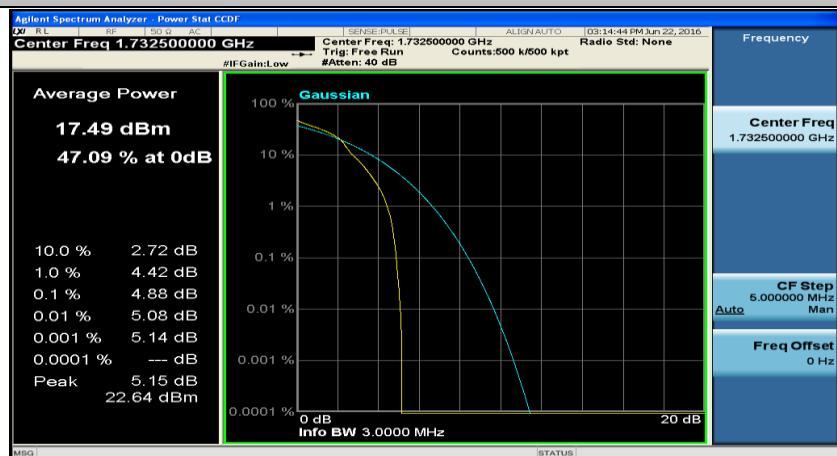
(Channel Bandwidth: 3 MHz)\_LCH\_16QAM\_8RB#7



(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



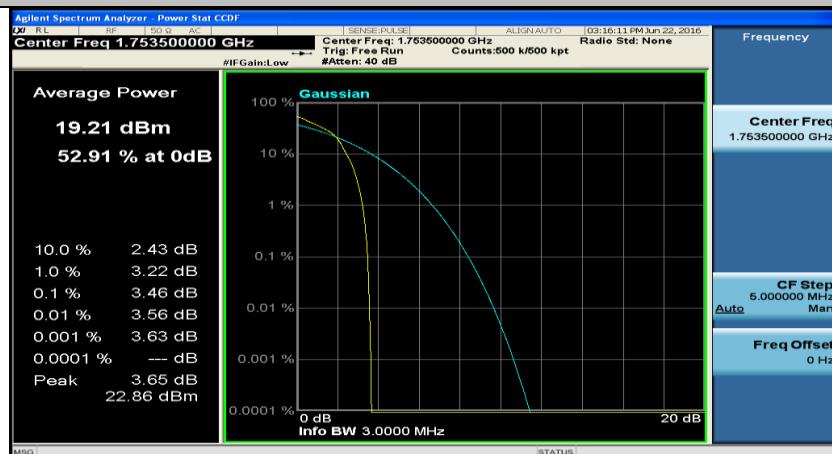
(Channel Bandwidth: 3 MHz)\_MCH\_16QAM\_8RB#7



(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



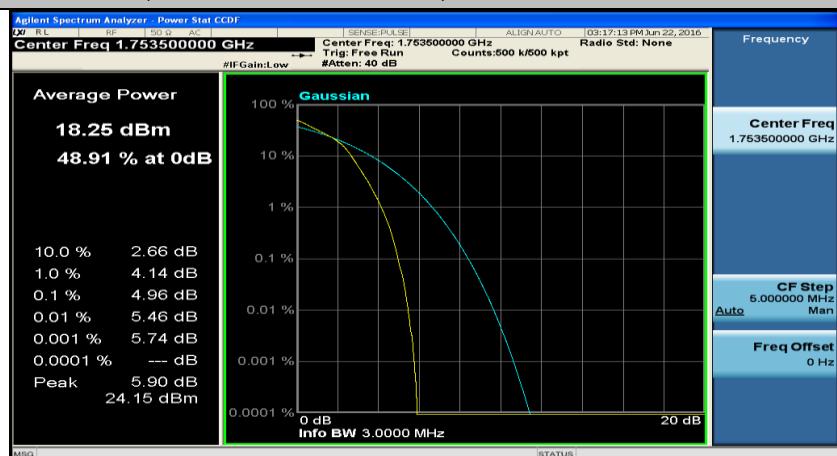
(Channel Bandwidth: 3 MHz)\_HCH\_16QAM\_8RB#4



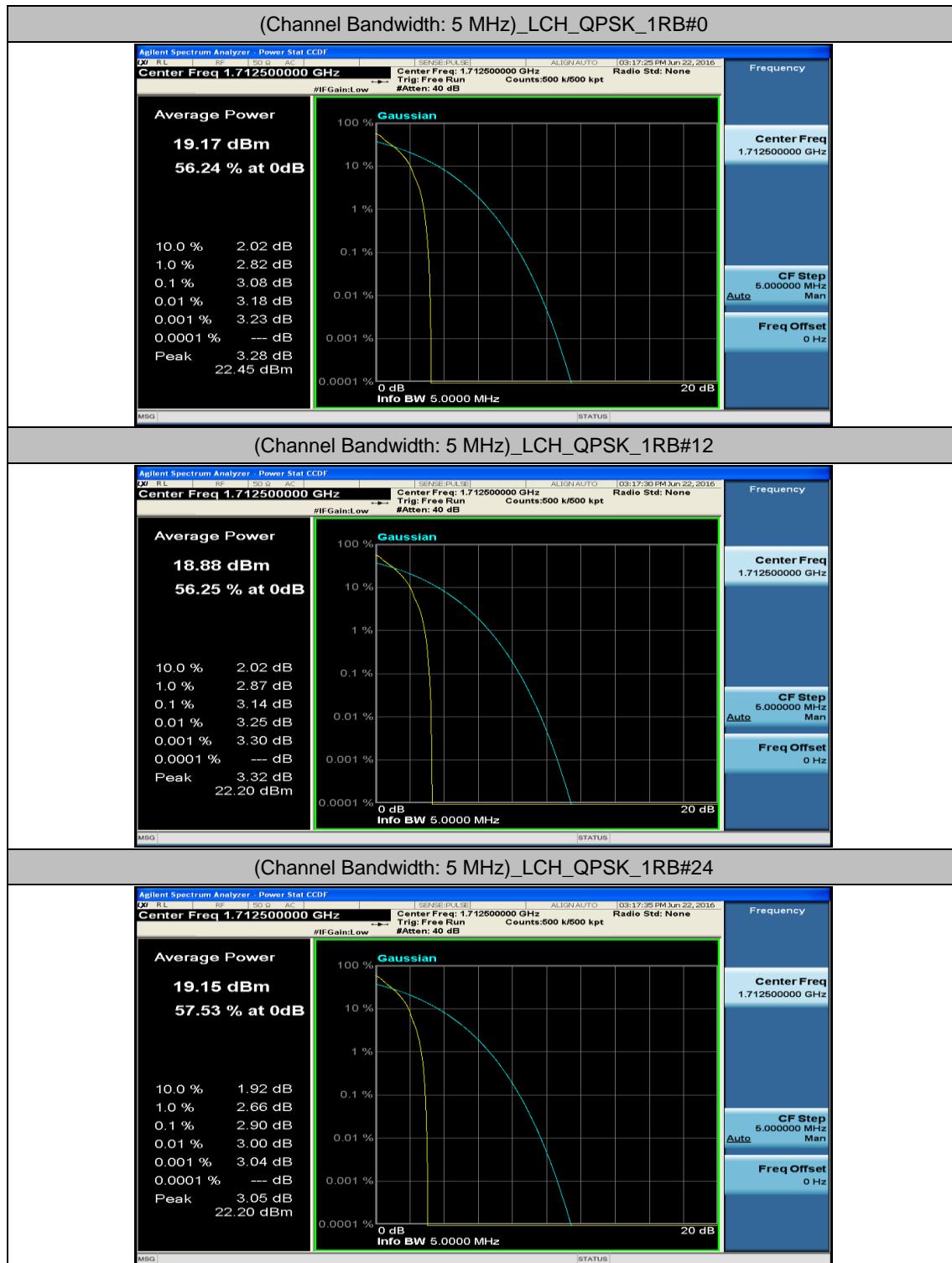
(Channel Bandwidth: 3 MHz)\_HCH\_16QAM\_8RB#7



(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



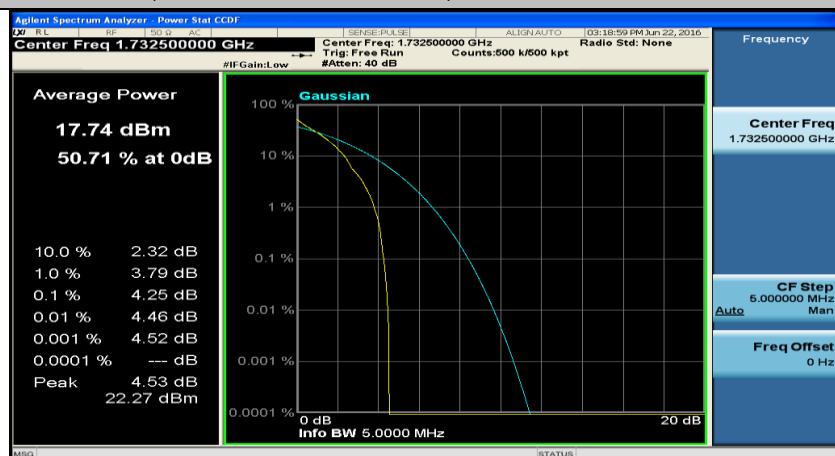
(Channel Bandwidth: 5 MHz)\_LCH\_QPSK\_25RB#0



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



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



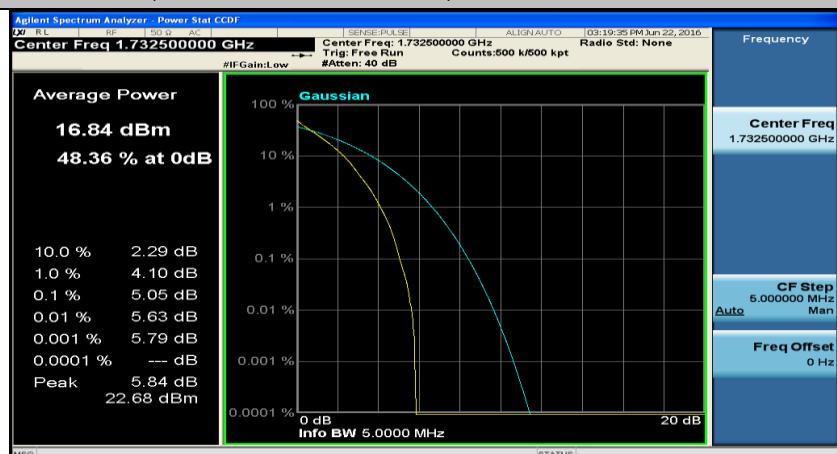
(Channel Bandwidth: 5 MHz)\_MCH\_QPSK\_1RB#24



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



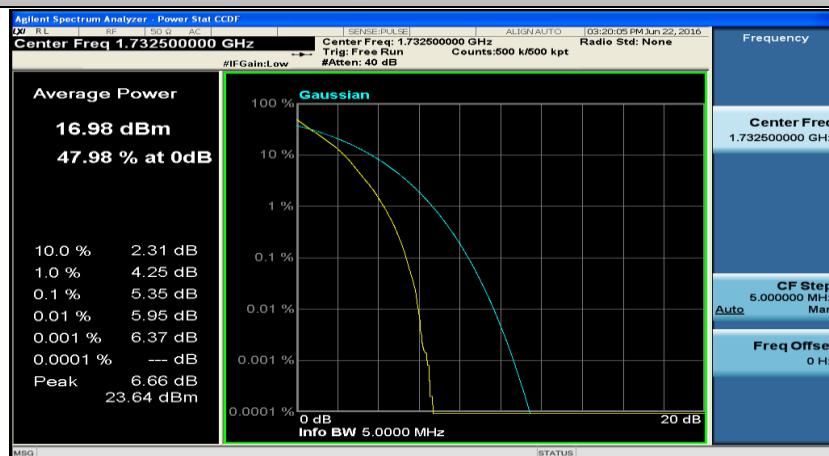
(Channel Bandwidth: 5 MHz)\_MCH\_QPSK\_12RB#6



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



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



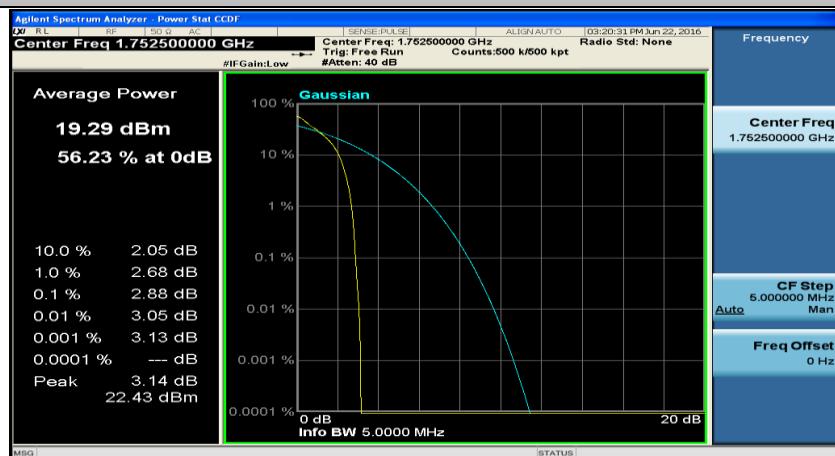
(Channel Bandwidth: 5 MHz)\_HCH\_QPSK\_1RB#0



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



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



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

