Appendix B.2: 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	4.32	<13	PASS
		1	3	4.37	<13	PASS
		1	5	4.42	<13	PASS
		3	0	4.49	<13	PASS
		3	2	4.5	<13	PASS
		3	3	4.53	<13	PASS
		6	0	5.29	<13	PASS
	MCH	1	0	3.63	<13	PASS
		1	3	3.68	<13	PASS
		1	5	3.68	<13	PASS
		3	0	3.83	<13	PASS
		3	2	3.82	<13	PASS
		3	3	3.85	<13	PASS
		6	0	4.69	<13	PASS
	HCH	1	0	2.62	<13	PASS
		1	3	2.59	<13	PASS
		1	5	2.57	<13	PASS
		3	0	2.87	<13	PASS
		3	2	2.72	<13	PASS
		3	3	2.75	<13	PASS
		6	0	3.76	<13	PASS
16QAM	LCH	1	0	5.35	<13	PASS
		1	3	5.37	<13	PASS
		1	5	5.4	<13	PASS
		3	0	5.42	<13	PASS
		3	2	5.45	<13	PASS
		3	3	5.49	<13	PASS
		6	0	6.2	<13	PASS
	MCH	1	0	4.65	<13	PASS
		1	3	4.6	<13	PASS
		1	5	4.68	<13	PASS
		3	0	4.75	<13	PASS
		3	2	4.72	<13	PASS

		3	3	4.75	<13	PASS
		6	0	5.64	<13	PASS
	HCH	1	0	3.69	<13	PASS
		1	3	3.67	<13	PASS
		1	5	3.57	<13	PASS
		3	0	3.68	<13	PASS
		3	2	3.58	<13	PASS
		3	3	3.56	<13	PASS
		6	0	4.68	<13	PASS

Channel Bandwidth: 3 MHz

Channel Bandwidth: 3 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio	Limit	Verdict
		Size	Offset	[dB]	[dB]	
QPSK	LCH	1	0	4.29	<13	PASS
		1	7	4.4	<13	PASS
		1	14	4.48	<13	PASS
		8	0	5.13	<13	PASS
		8	4	5.18	<13	PASS
		8	7	5.23	<13	PASS
		15	0	5.34	<13	PASS
	MCH	1	0	3.58	<13	PASS
		1	7	3.76	<13	PASS
		1	14	3.88	<13	PASS
		8	0	4.48	<13	PASS
		8	4	4.53	<13	PASS
		8	7	4.6	<13	PASS
		15	0	4.86	<13	PASS
	HCH	1	0	2.76	<13	PASS
		1	7	2.56	<13	PASS
		1	14	2.46	<13	PASS
		8	0	3.73	<13	PASS
		8	4	3.51	<13	PASS
		8	7	3.58	<13	PASS
		15	0	4.28	<13	PASS
16QAM	LCH	1	0	5.19	<13	PASS
		1	7	5.32	<13	PASS
		1	14	5.42	<13	PASS
		8	0	5.96	<13	PASS
		8	4	5.97	<13	PASS
		8	7	5.98	<13	PASS

		15	0	6.41	<13	PASS
	MCH	1	0	4.46	<13	PASS
		1	7	4.75	<13	PASS
		1	14	4.87	<13	PASS
		8	0	5.27	<13	PASS
		8	4	5.31	<13	PASS
		8	7	5.4	<13	PASS
		15	0	5.77	<13	PASS
	HCH	1	0	3.84	<13	PASS
		1	7	3.62	<13	PASS
		1	14	3.55	<13	PASS
		8	0	4.62	<13	PASS
		8	4	4.44	<13	PASS
		8	7	4.46	<13	PASS
		15	0	5.08	<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	4.15	<13	PASS
		1	12	4.37	<13	PASS
		1	24	4.3	<13	PASS
		12	0	5.21	<13	PASS
		12	6	5.19	<13	PASS
		12	13	5.26	<13	PASS
		25	0	5.39	<13	PASS
	MCH	1	0	3.29	<13	PASS
		1	12	3.61	<13	PASS
		1	24	3.73	<13	PASS
		12	0	4.45	<13	PASS
		12	6	4.51	<13	PASS
		12	13	4.68	<13	PASS
		25	0	4.83	<13	PASS
	HCH	1	0	3.26	<13	PASS
		1	12	2.79	<13	PASS
		1	24	2.57	<13	PASS
		12	0	4.09	<13	PASS
		12	6	3.76	<13	PASS
		12	13	3.7	<13	PASS
		25	0	4.35	<13	PASS

16QAM	LCH	1	0	5.19	<13	PASS
		1	12	5.26	<13	PASS
		1	24	5.38	<13	PASS
		12	0	6.08	<13	PASS
		12	6	6.08	<13	PASS
		12	13	6.13	<13	PASS
		25	0	6.26	<13	PASS
	MCH	1	0	4.21	<13	PASS
		1	12	4.59	<13	PASS
		1	24	4.79	<13	PASS
		12	0	5.35	<13	PASS
		12	6	5.4	<13	PASS
		12	13	5.53	<13	PASS
		25	0	5.7	<13	PASS
	HCH	1	0	4.19	<13	PASS
		1	12	3.7	<13	PASS
		1	24	3.48	<13	PASS
		12	0	5.1	<13	PASS
		12	6	4.83	<13	PASS
		12	13	4.71	<13	PASS
		25	0	5.25	<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	4.22	<13	PASS
		1	24	4.39	<13	PASS
		1	49	3.98	<13	PASS
		25	0	5.36	<13	PASS
		25	12	5.32	<13	PASS
		25	25	5.19	<13	PASS
		50	0	5.37	<13	PASS
	MCH	1	0	2.59	<13	PASS
		1	24	3.67	<13	PASS
		1	49	4.01	<13	PASS
		25	0	4.11	<13	PASS
		25	12	4.61	<13	PASS
		25	25	4.85	<13	PASS
		50	0	4.62	<13	PASS
	HCH	1	0	4.14	<13	PASS

		1	24	3.16	<13	PASS
		1	49	2.39	<13	PASS
		25	0	5.01	<13	PASS
		25	12	4.52	<13	PASS
		25	25	4.21	<13	PASS
		50	0	4.98	<13	PASS
16QAM	LCH	1	0	5.3	<13	PASS
		1	24	5.36	<13	PASS
		1	49	4.96	<13	PASS
		25	0	6.27	<13	PASS
		25	12	6.14	<13	PASS
		25	25	6.04	<13	PASS
		50	0	6.18	<13	PASS
	MCH	1	0	3.44	<13	PASS
		1	24	4.67	<13	PASS
		1	49	4.96	<13	PASS
		25	0	5.08	<13	PASS
		25	12	5.47	<13	PASS
		25	25	5.75	<13	PASS
		50	0	5.59	<13	PASS
	HCH	1	0	5.19	<13	PASS
		1	24	4.28	<13	PASS
		1	49	3.5	<13	PASS
		25	0	5.94	<13	PASS
		25	12	5.42	<13	PASS
		25	25	5.14	<13	PASS
		50	0	5.75	<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	7.94	<13	PASS
		1	37	4.19	<13	PASS
		1	74	9.65	<13	PASS
		37	0	4.71	<13	PASS
		37	18	5.22	<13	PASS
		37	38	4.72	<13	PASS
		75	0	4.92	<13	PASS
	MCH	1	0	7.64	<13	PASS
		1	37	3.69	<13	PASS

		1	74	9.5	<13	PASS
		37	0	4.69	<13	PASS
		37	18	4.45	<13	PASS
		37	38	4.64	<13	PASS
		75	0	4.97	<13	PASS
	HCH	1	0	7.58	<13	PASS
		1	37	3.92	<13	PASS
		1	74	11.02	<13	PASS
		37	0	4.71	<13	PASS
		37	18	5.07	<13	PASS
		37	38	4.61	<13	PASS
		75	0	4.96	<13	PASS
16QAM	LCH	1	0	8.44	<13	PASS
		1	37	5.19	<13	PASS
		1	74	10.44	<13	PASS
		37	0	6	<13	PASS
		37	18	6.06	<13	PASS
		37	38	6	<13	PASS
		75	0	6.27	<13	PASS
	MCH	1	0	8.11	<13	PASS
		1	37	4.7	<13	PASS
		1	74	10.28	<13	PASS
		37	0	5.76	<13	PASS
		37	18	5.35	<13	PASS
		37	38	5.86	<13	PASS
		75	0	6.14	<13	PASS
	HCH	1	0	7.86	<13	PASS
		1	37	5.03	<13	PASS
		1	74	11.15	<13	PASS
		37	0	6.01	<13	PASS
		37	18	5.99	<13	PASS
		37	38	5.86	<13	PASS
		75	0	6.23	<13	PASS

Channel Bandwidth: 20 MHz

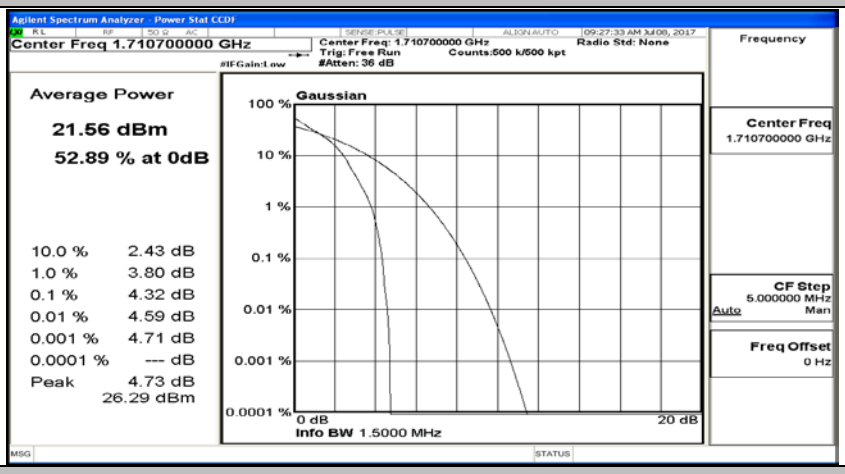
Channel Bandwidth: 20 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	LCH	1	0	10.34	<13	PASS
		1	49	3.93	<13	PASS
		1	99	10.7	<13	PASS

		50	0	5.43	<13	PASS
		50	25	5.22	<13	PASS
		50	50	5.83	<13	PASS
		100	0	5.7	<13	PASS
	MCH	1	0	9.95	<13	PASS
		1	49	3.65	<13	PASS
		1	99	9.16	<13	PASS
		50	0	5.64	<13	PASS
		50	25	4.58	<13	PASS
		50	50	5.66	<13	PASS
		100	0	5.8	<13	PASS
	HCH	1	0	9.6	<13	PASS
		1	49	4.47	<13	PASS
		1	99	12.01	<13	PASS
		50	0	5.53	<13	PASS
		50	25	5.35	<13	PASS
		50	50	5.97	<13	PASS
		100	0	5.83	<13	PASS
16QAM	LCH	1	0	10.1	<13	PASS
		1	49	4.85	<13	PASS
		1	99	8.81	<13	PASS
		50	0	6.56	<13	PASS
		50	25	6.04	<13	PASS
		50	50	6.66	<13	PASS
		100	0	6.81	<13	PASS
	MCH	1	0	9.16	<13	PASS
		1	49	4.65	<13	PASS
		1	99	9.33	<13	PASS
		50	0	6.46	<13	PASS
		50	25	5.55	<13	PASS
		50	50	6.61	<13	PASS
		100	0	6.73	<13	PASS
	HCH	1	0	9.56	<13	PASS
		1	49	5.33	<13	PASS
		1	99	9.94	<13	PASS
		50	0	6.68	<13	PASS
		50	25	6.17	<13	PASS
		50	50	6.85	<13	PASS
		100	0	6.86	<13	PASS

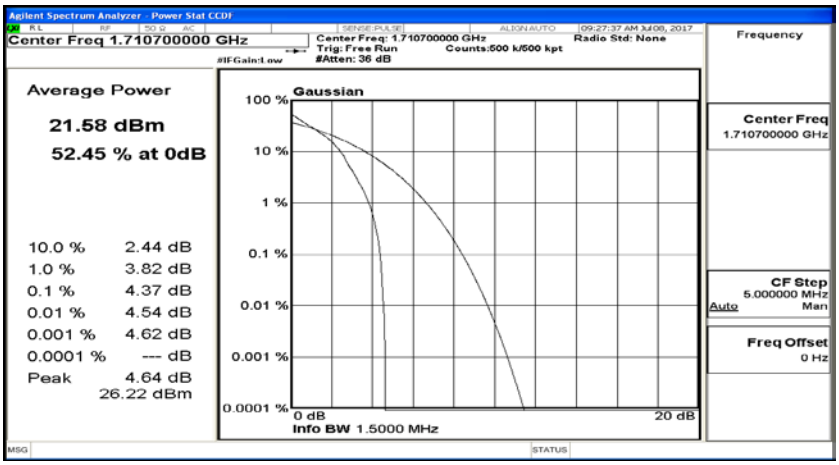
Test Graphs

Channel Bandwidth: 1.4 MHz

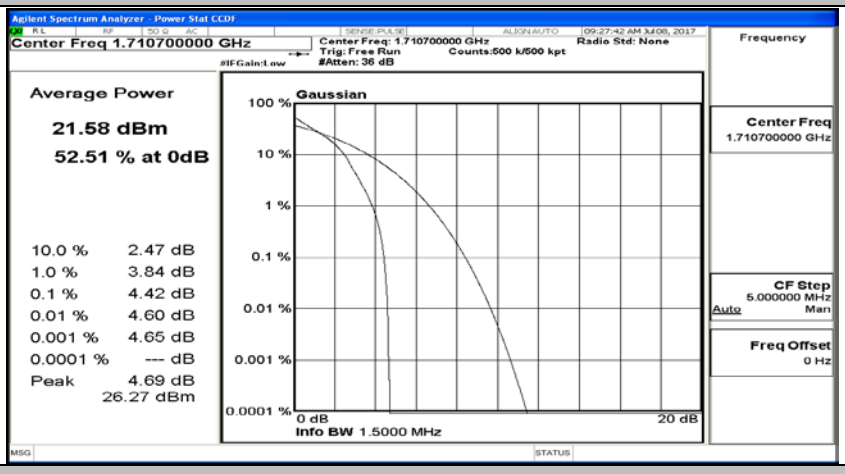
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#0



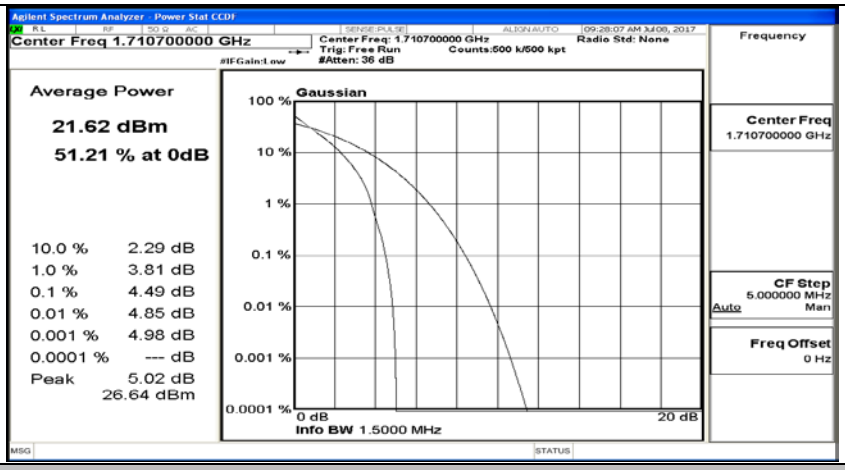
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#3



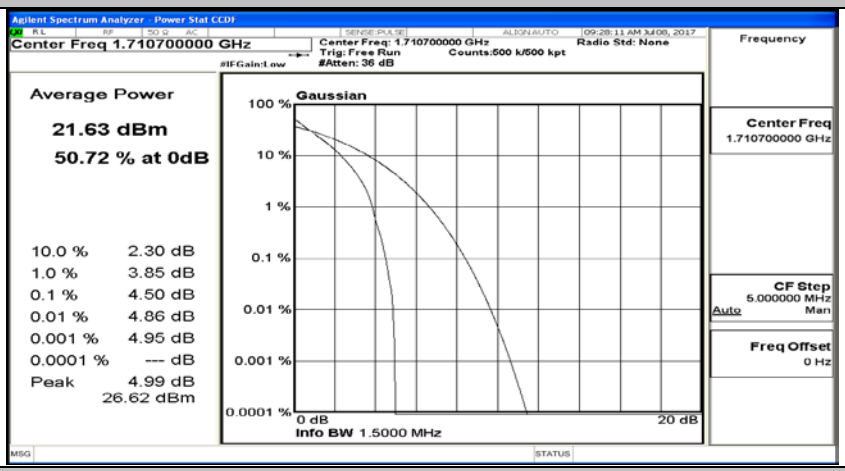
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#5



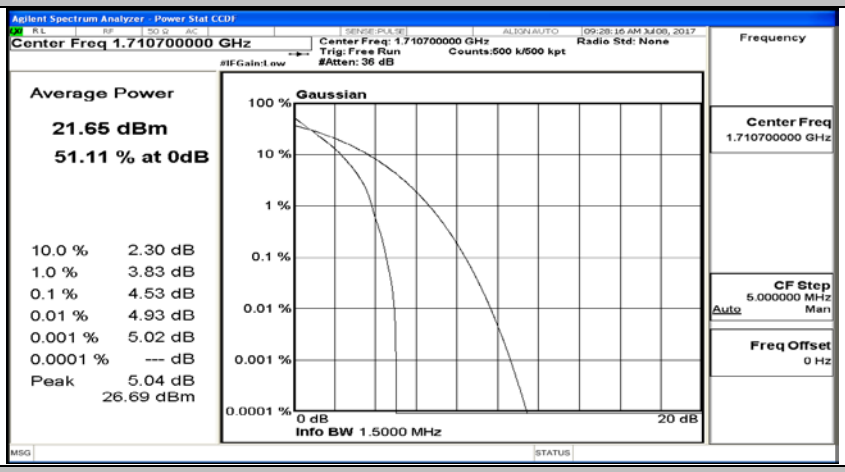
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_3RB#0



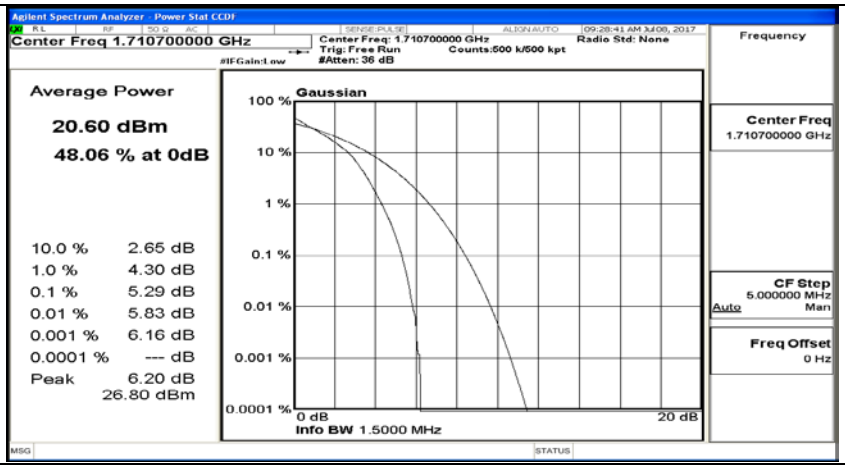
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_3RB#2



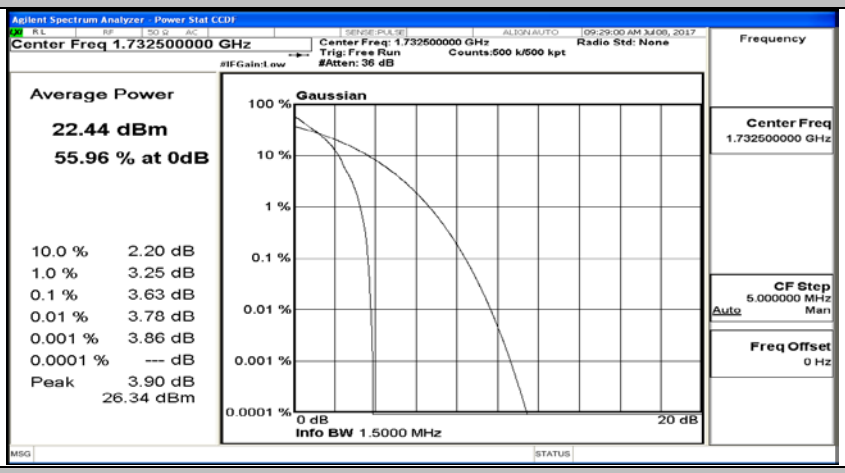
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_3RB#3



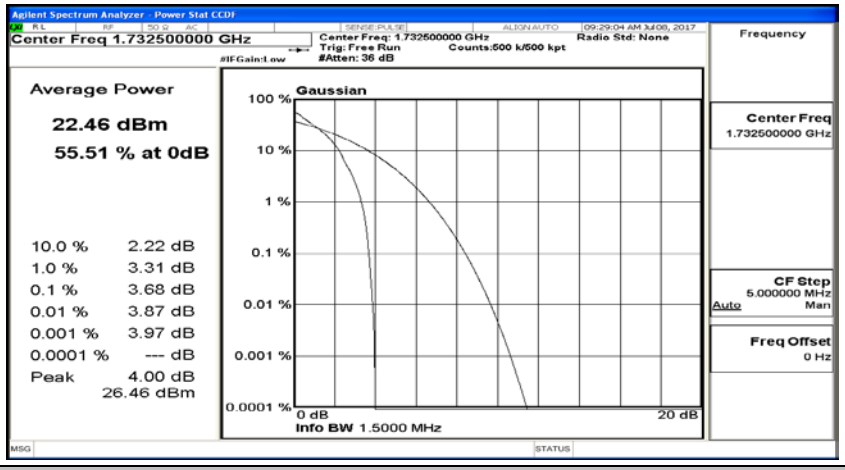
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_6RB#0



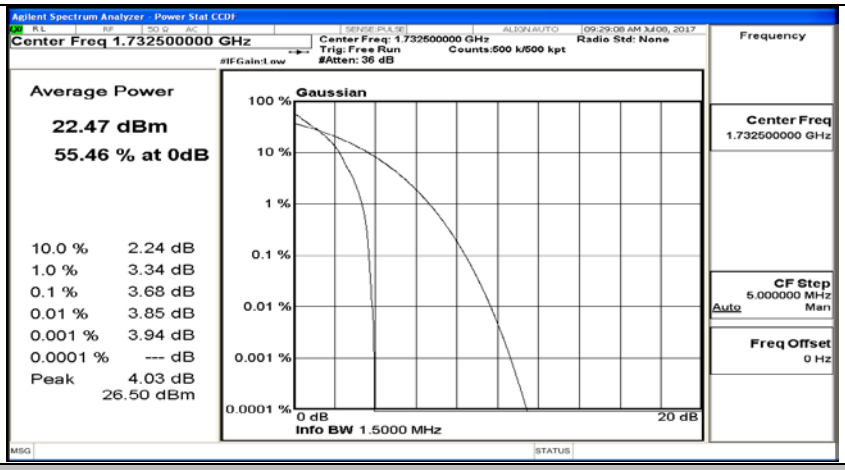
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#0



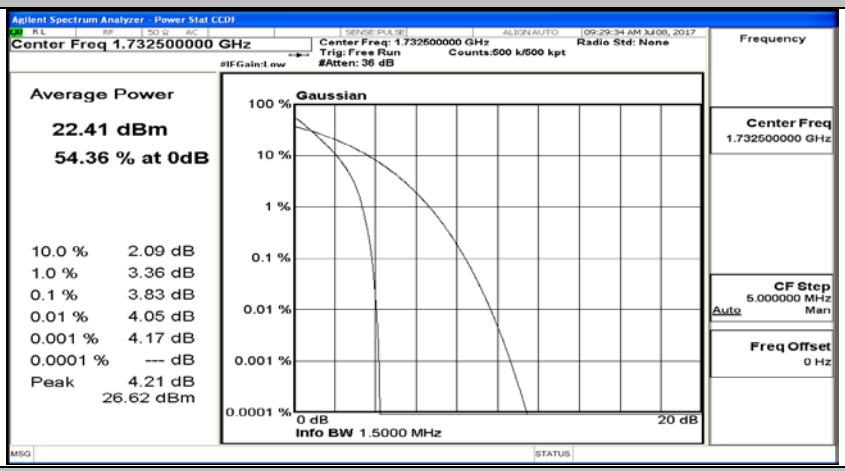
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#3



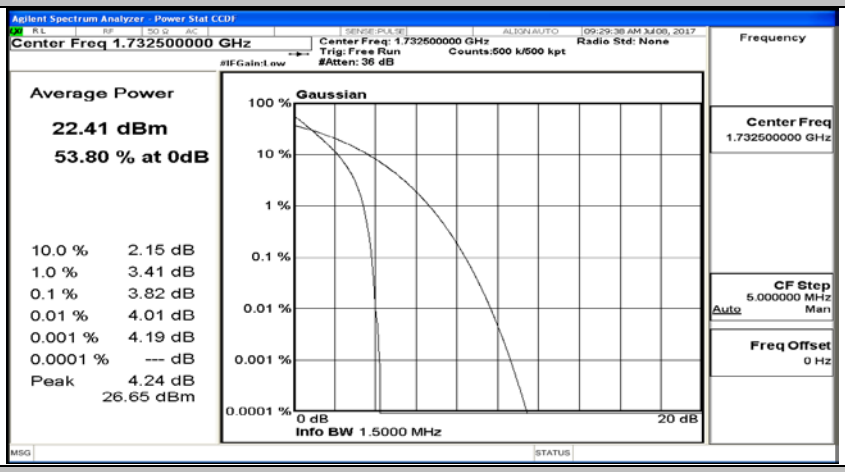
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#5



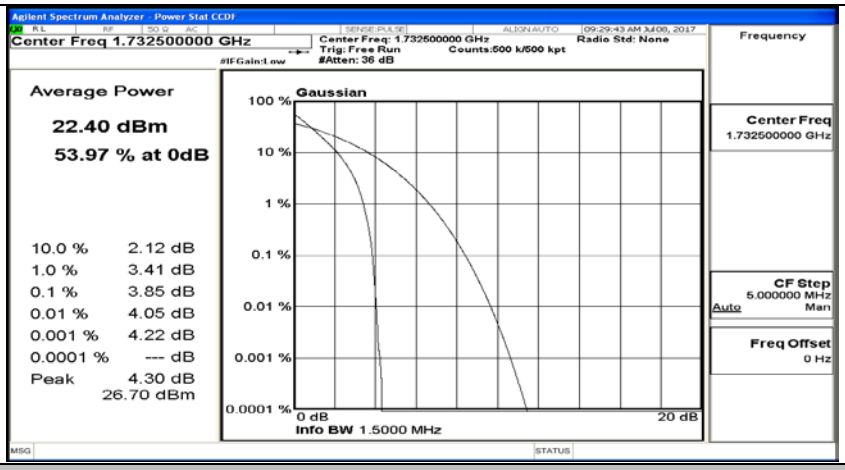
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_3RB#0



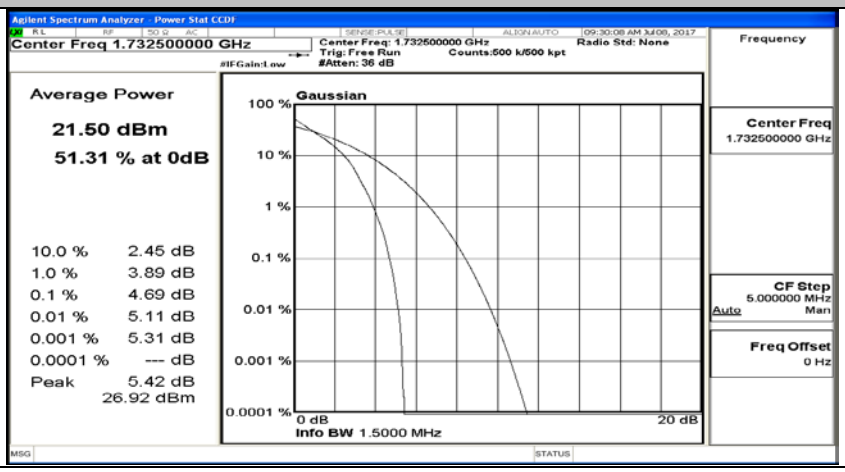
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_3RB#2



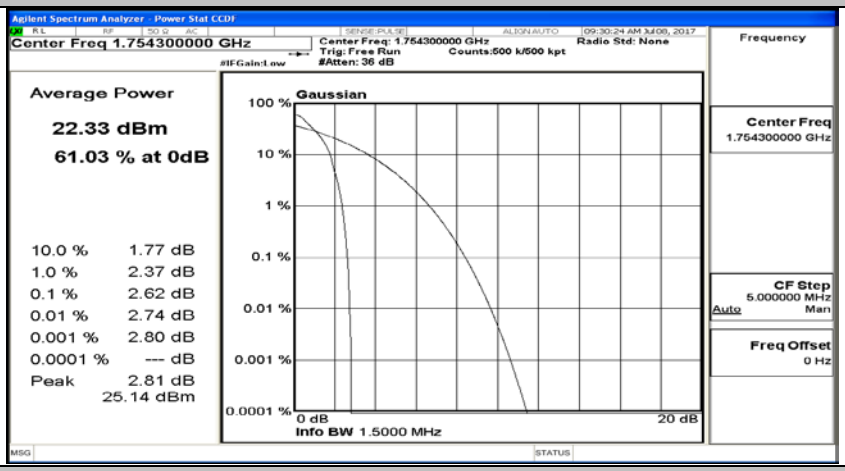
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_3RB#3



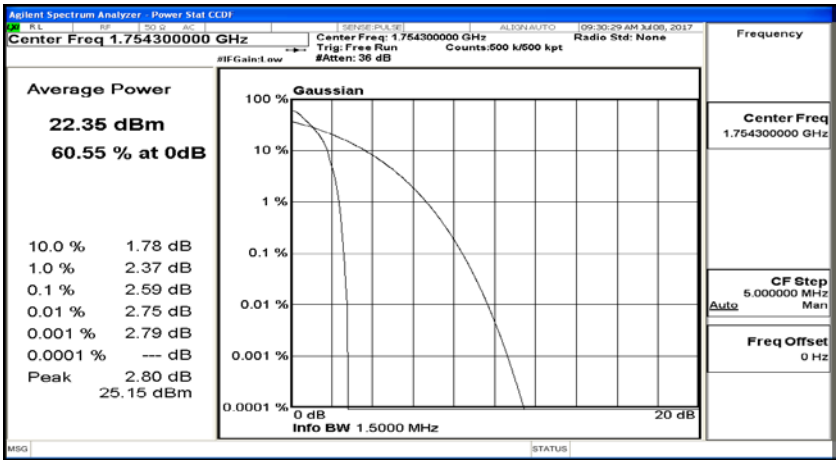
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_6RB#0



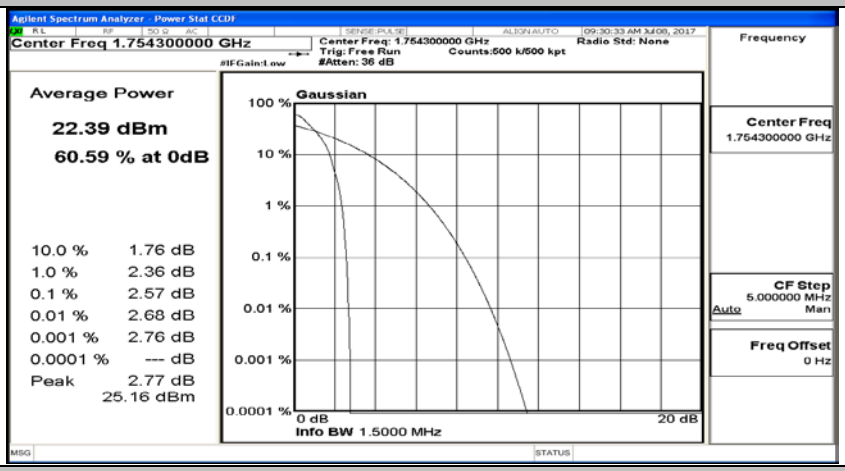
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#0



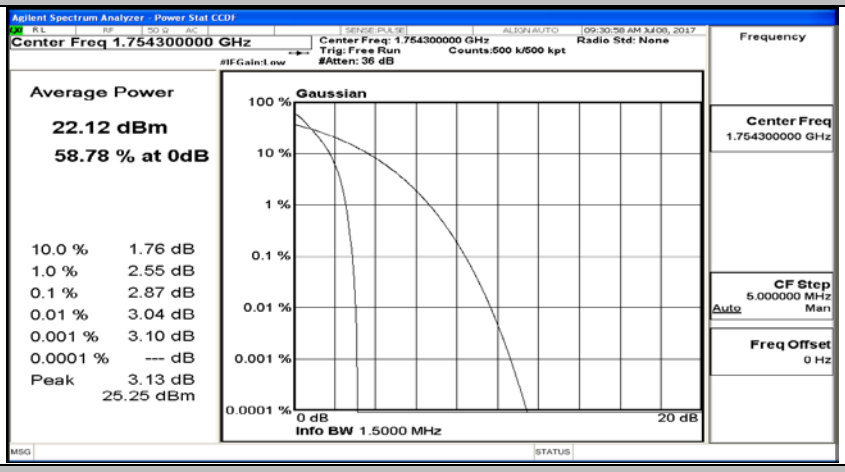
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#3



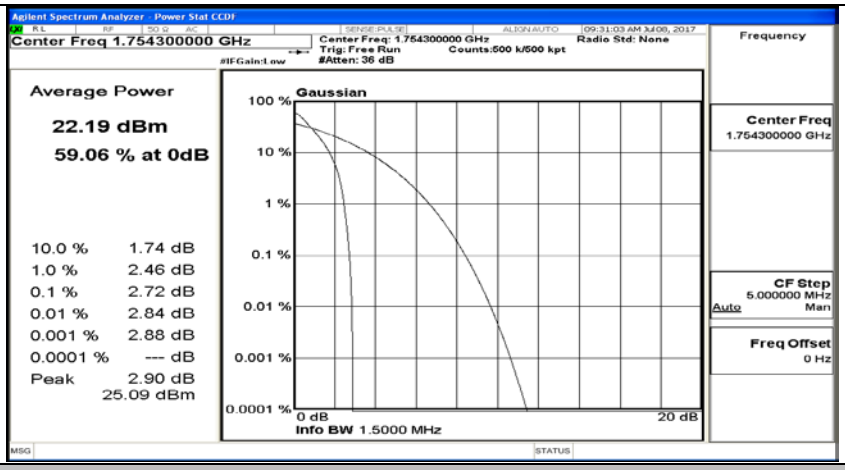
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#5



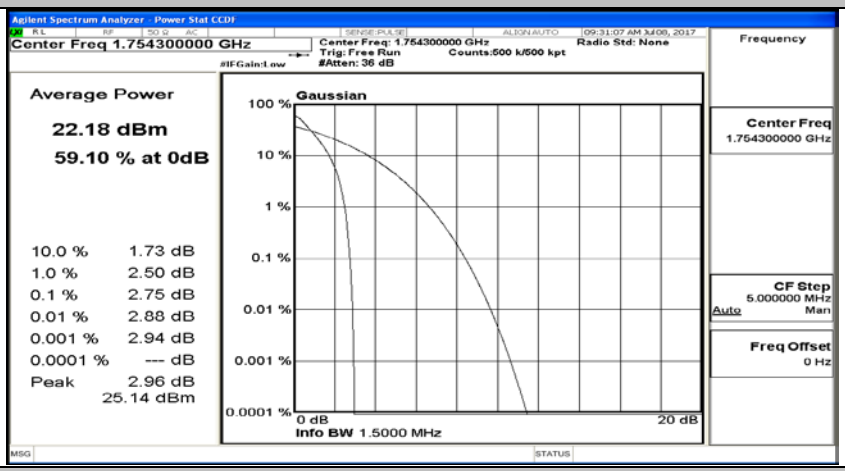
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_3RB#0



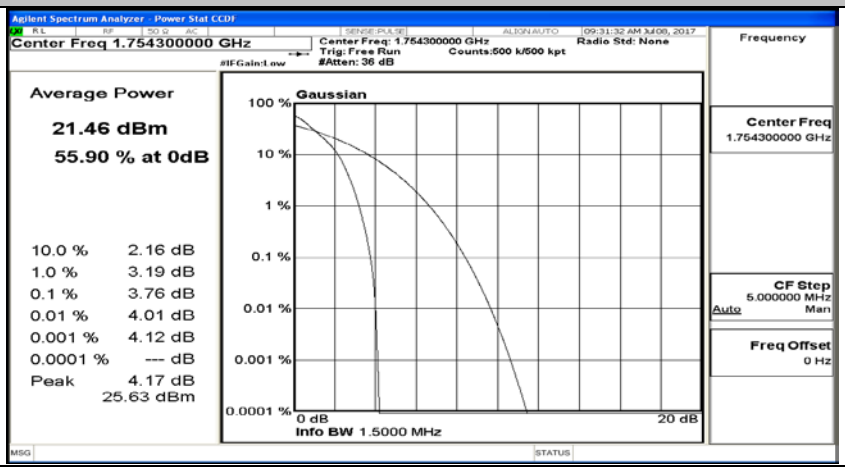
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_3RB#2



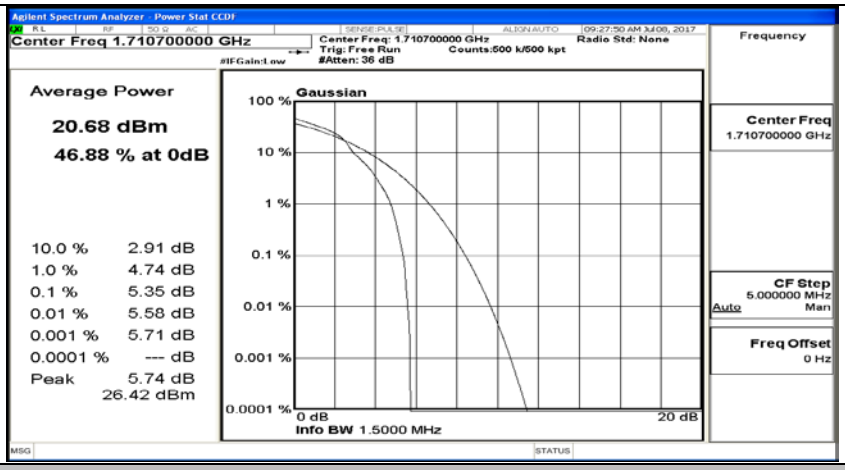
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_3RB#3



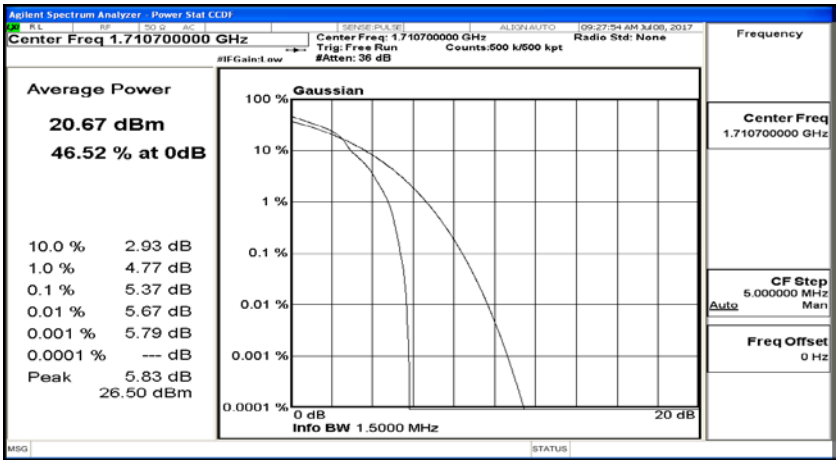
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_6RB#0



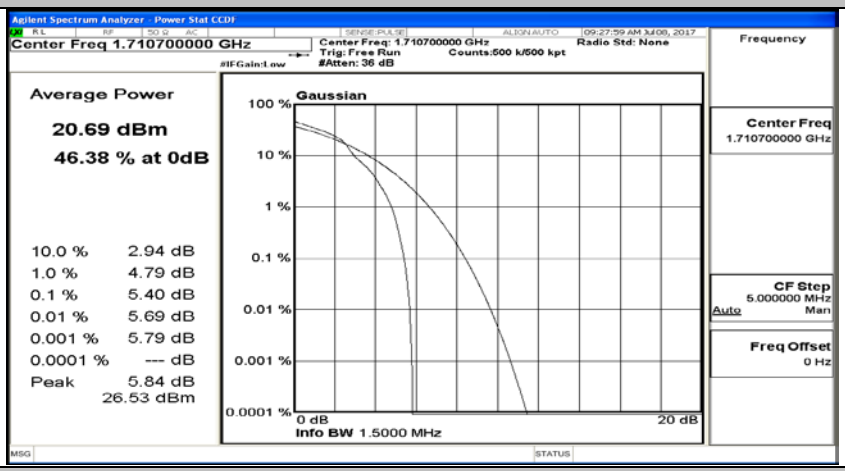
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#0



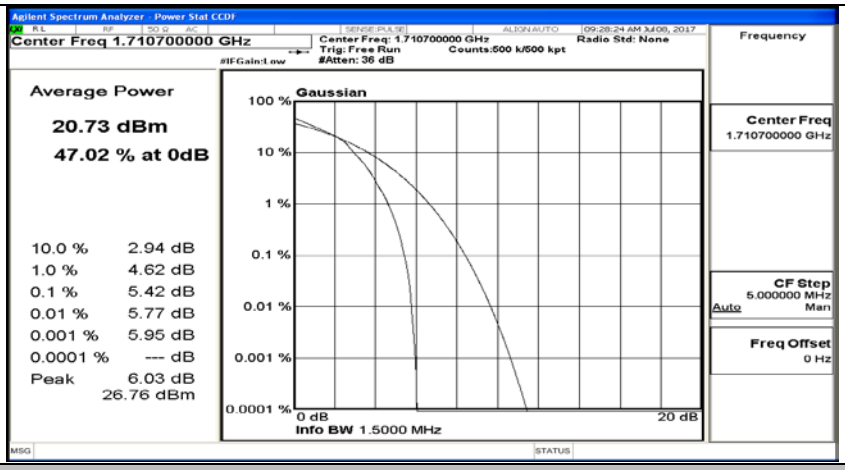
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#3



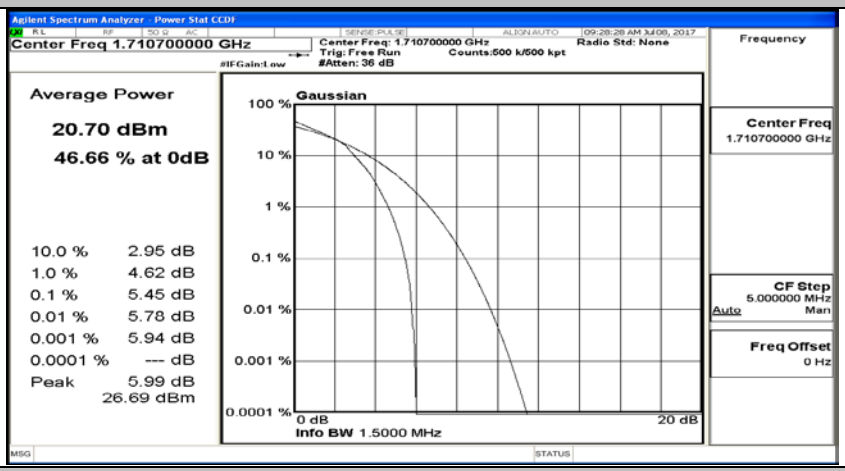
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#5



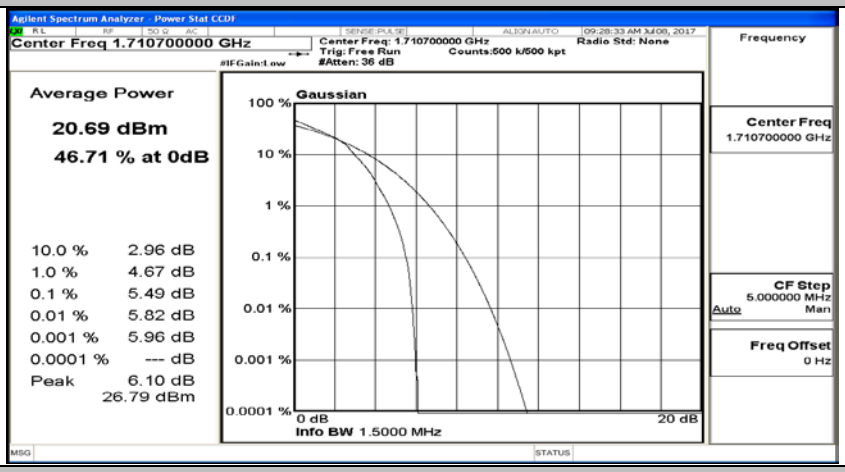
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_3RB#0



(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_3RB#2



(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_3RB#3



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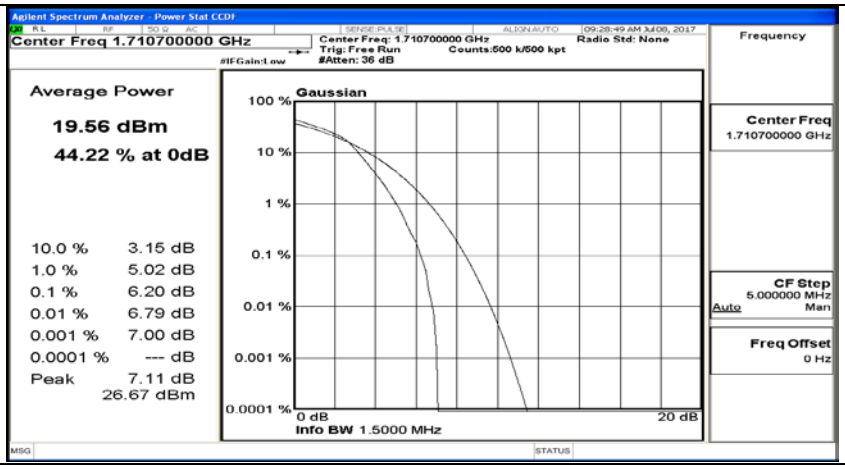
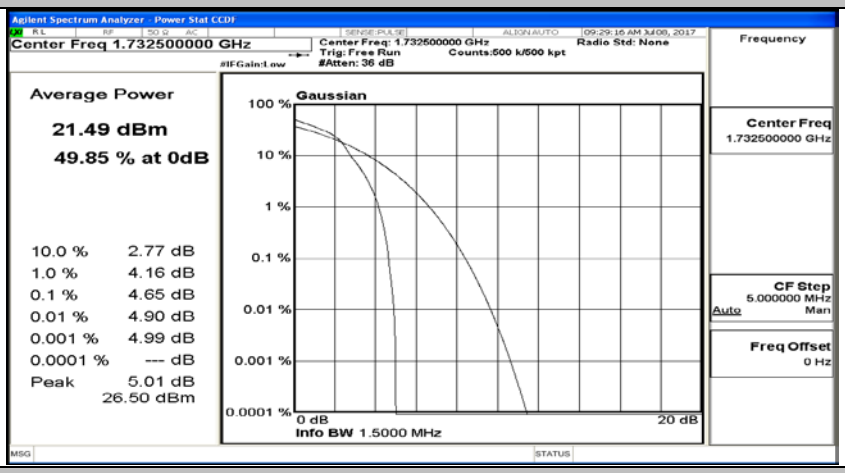
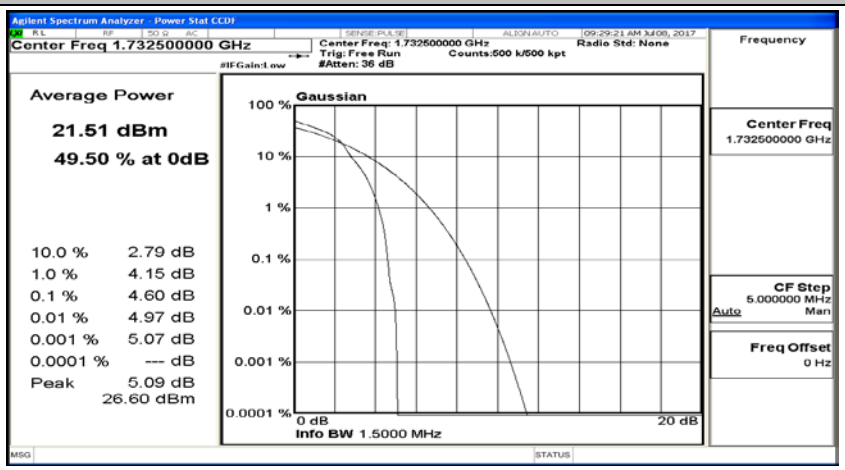


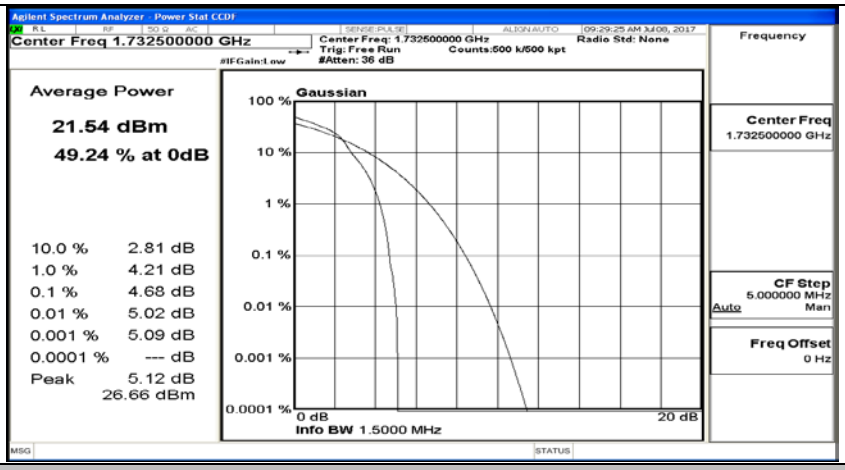
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#0



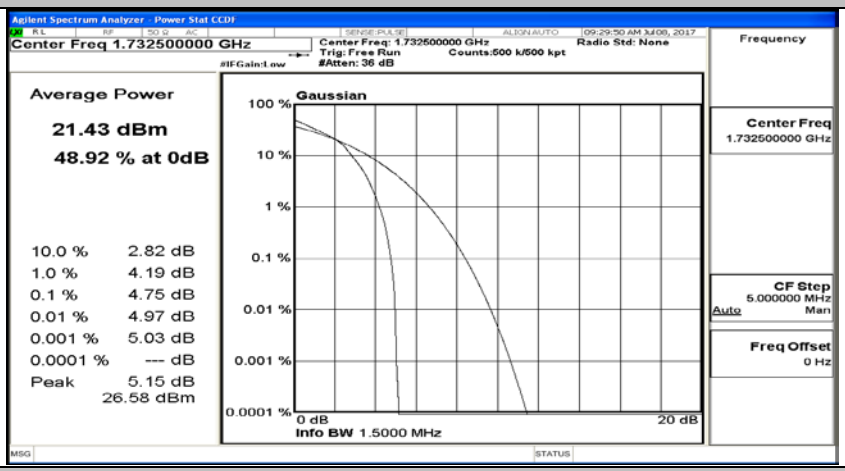
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#3



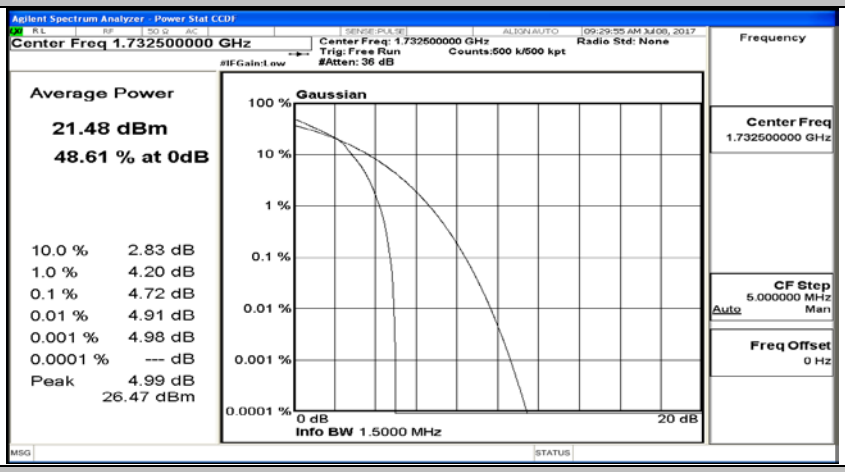
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#5



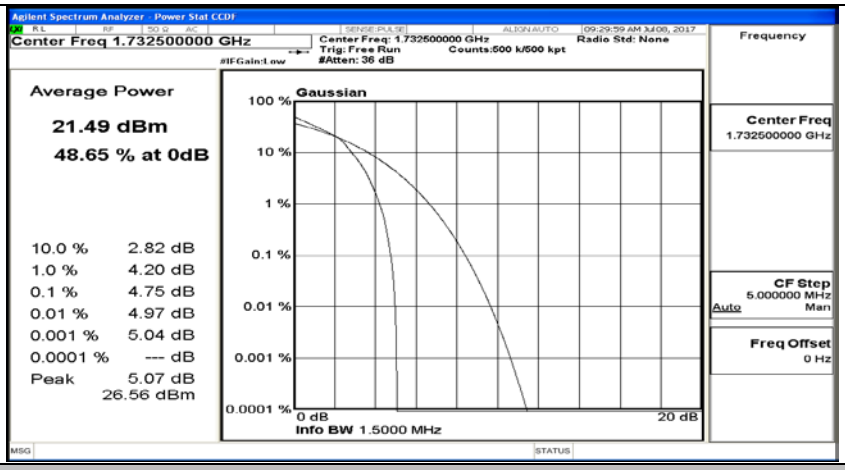
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_3RB#0



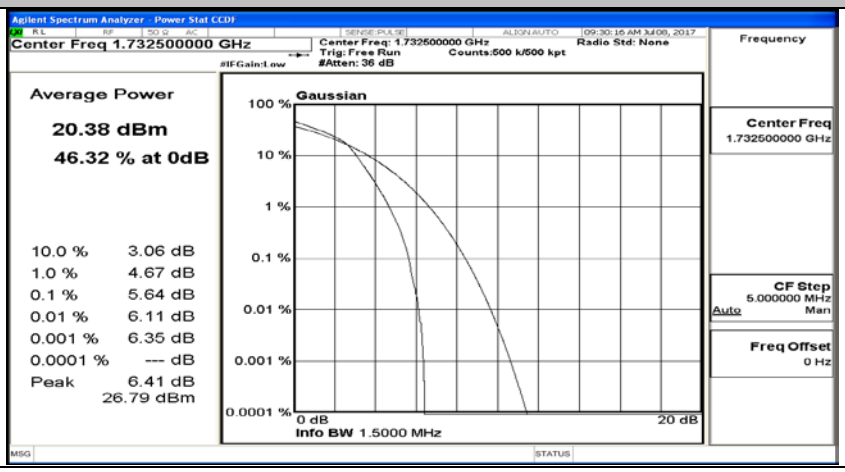
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_3RB#2



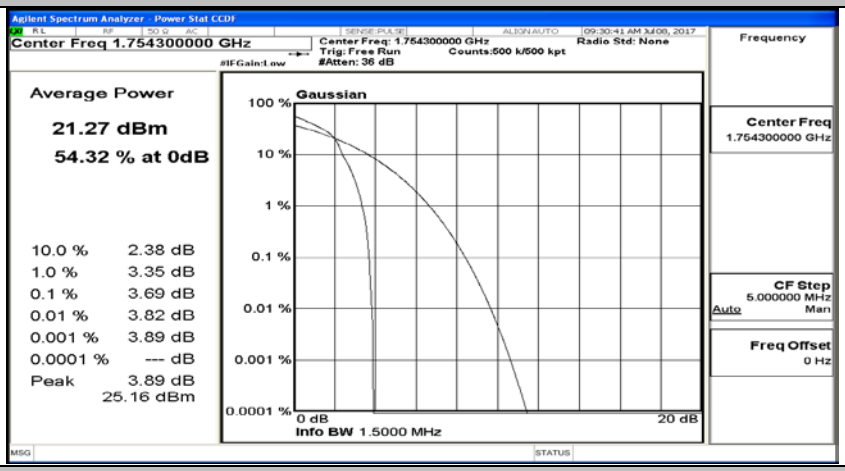
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_3RB#3



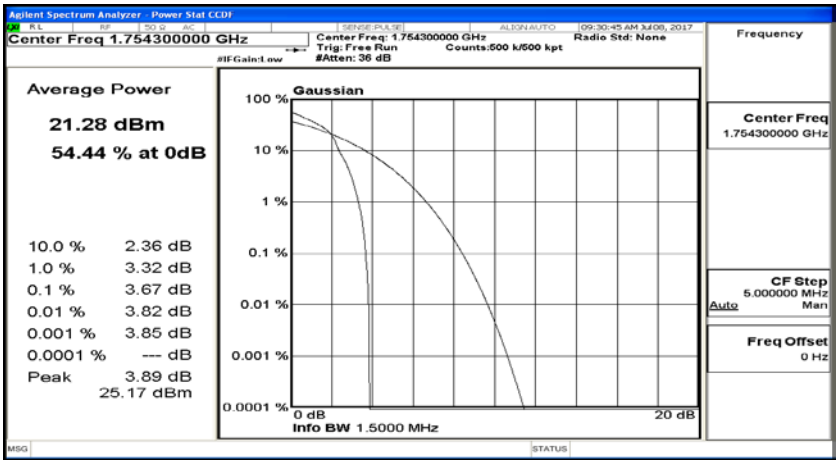
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_6RB#0



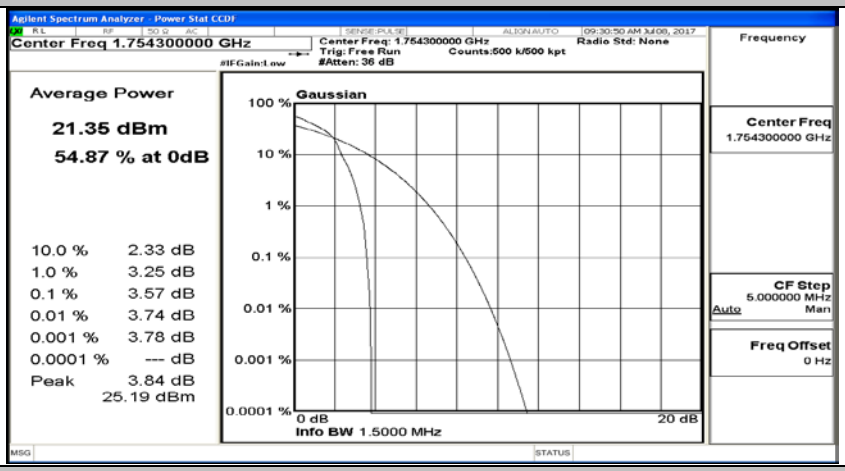
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#0



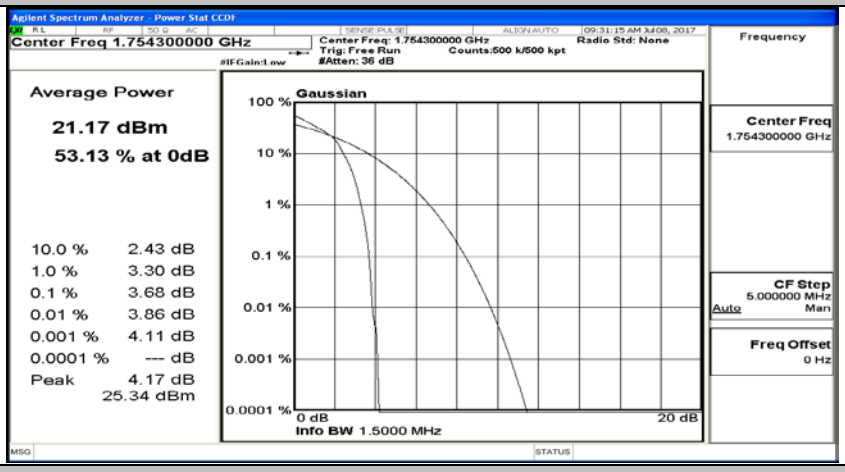
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#3



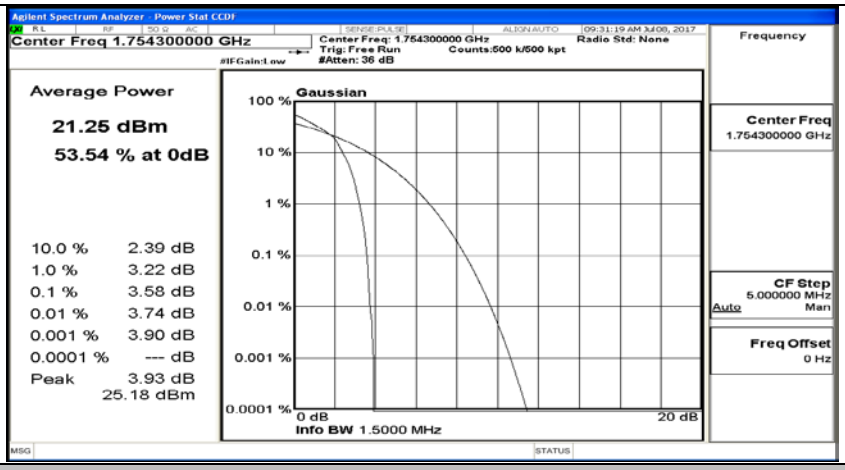
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#5



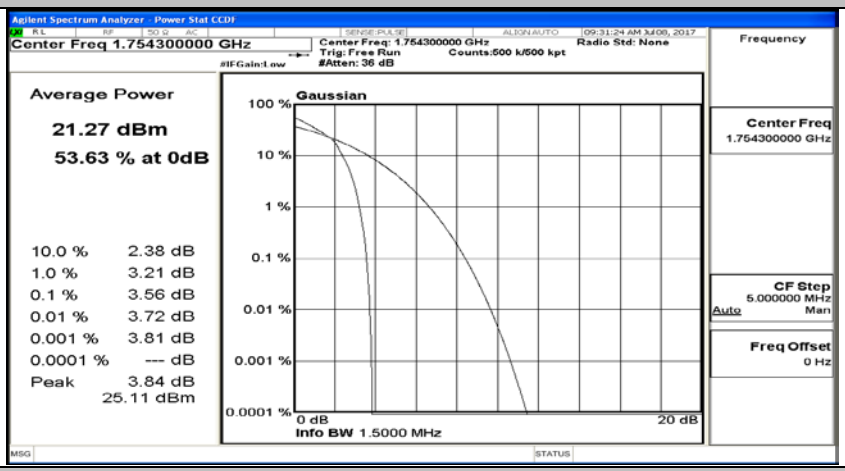
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_3RB#0



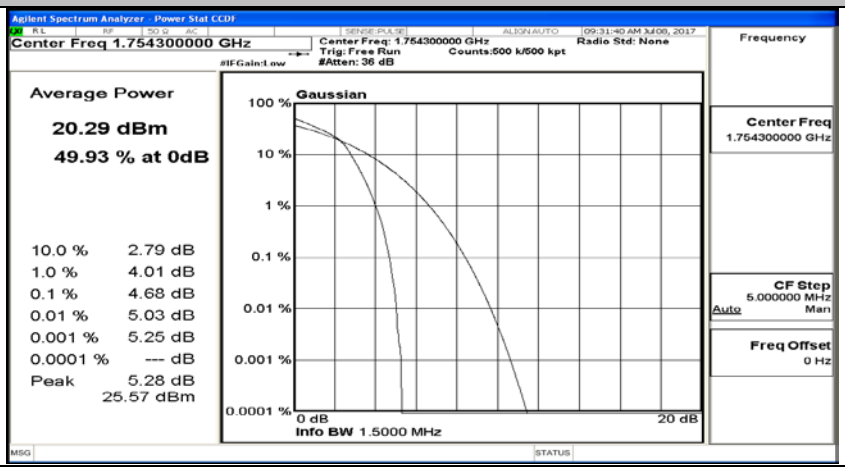
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_3RB#2



(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_3RB#3

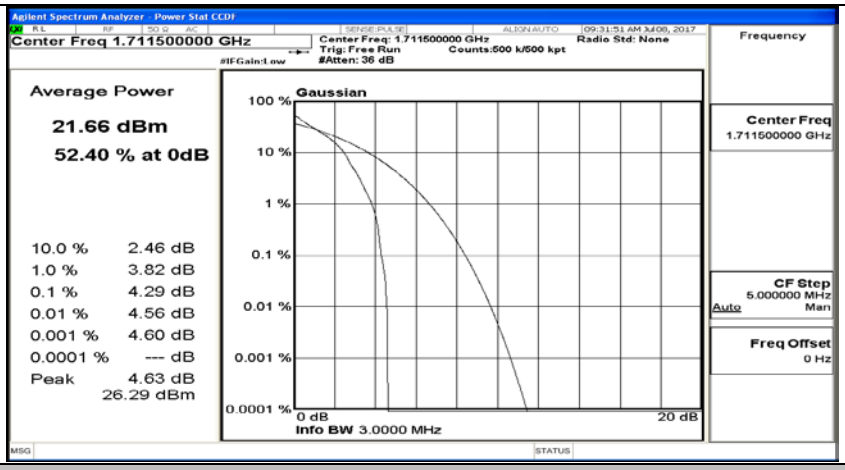


(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_6RB#0

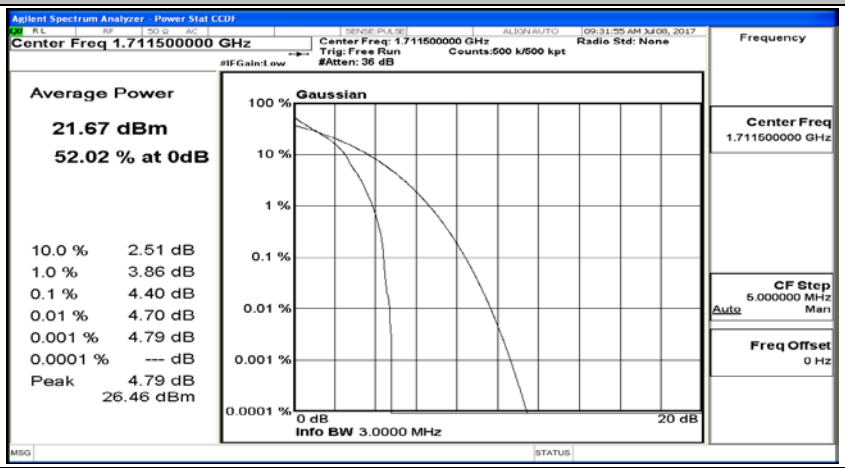


Channel Bandwidth: 3 MHz

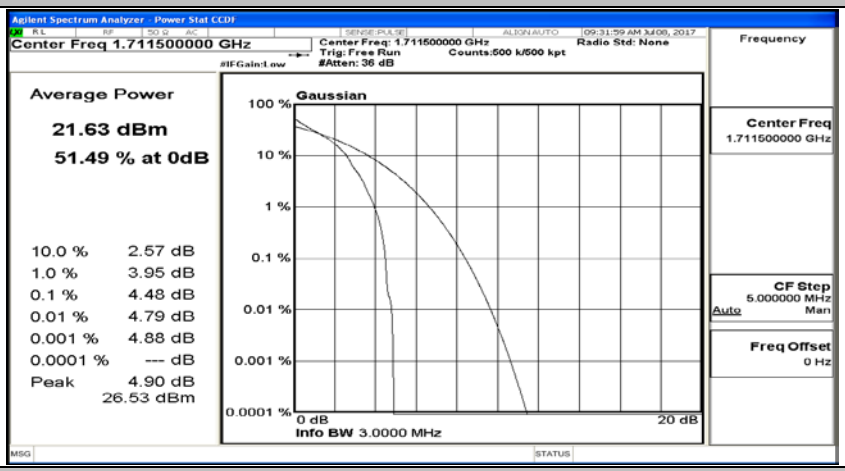
(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#0



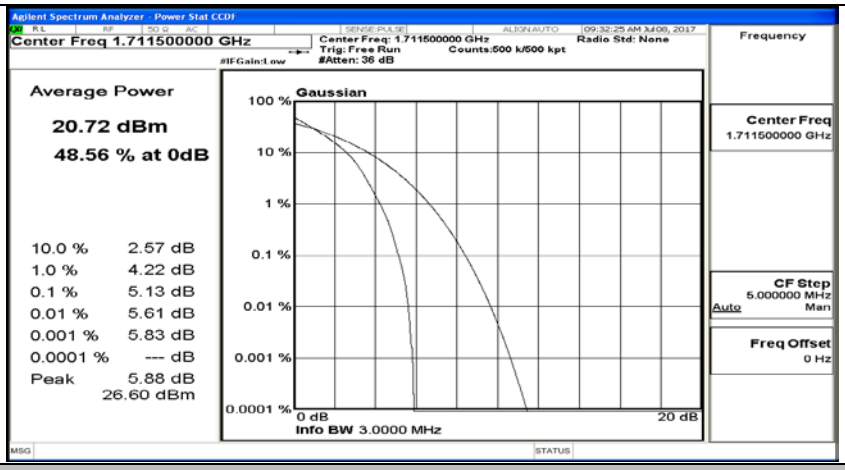
(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#7



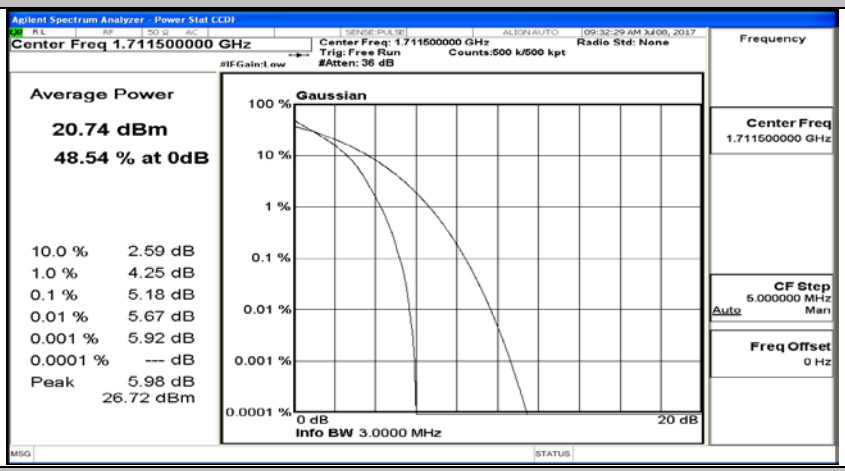
(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#14



(Channel Bandwidth: 3 MHz)_LCH_QPSK_8RB#0



(Channel Bandwidth: 3 MHz)_LCH_QPSK_8RB#4



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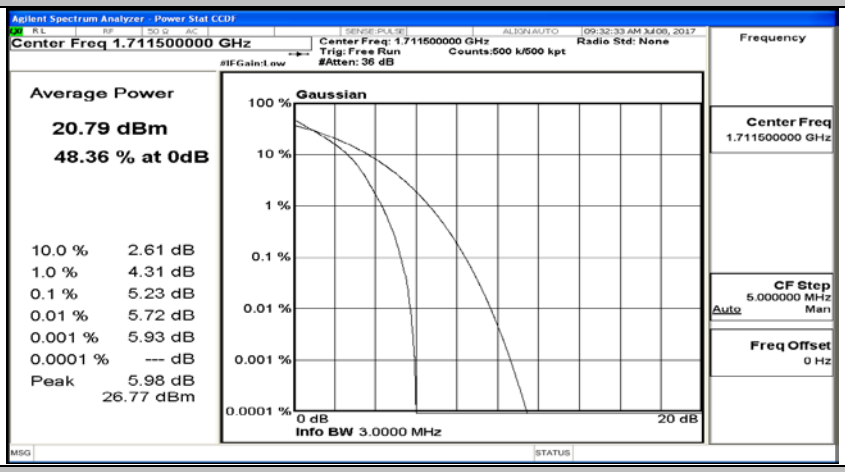

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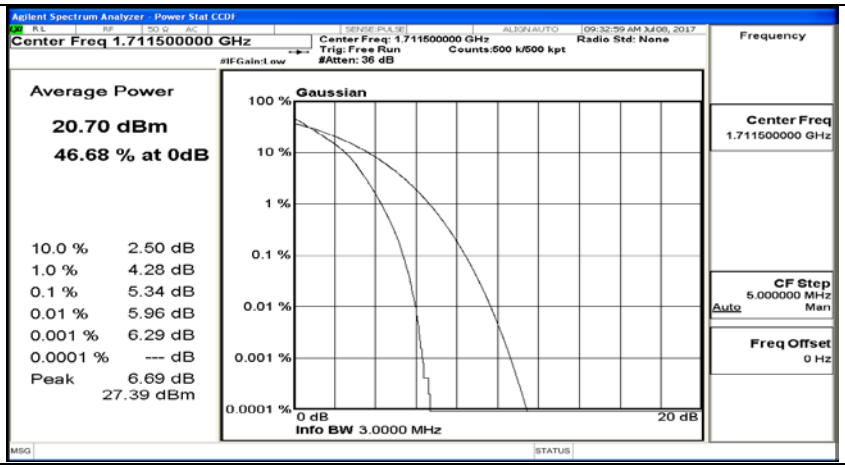
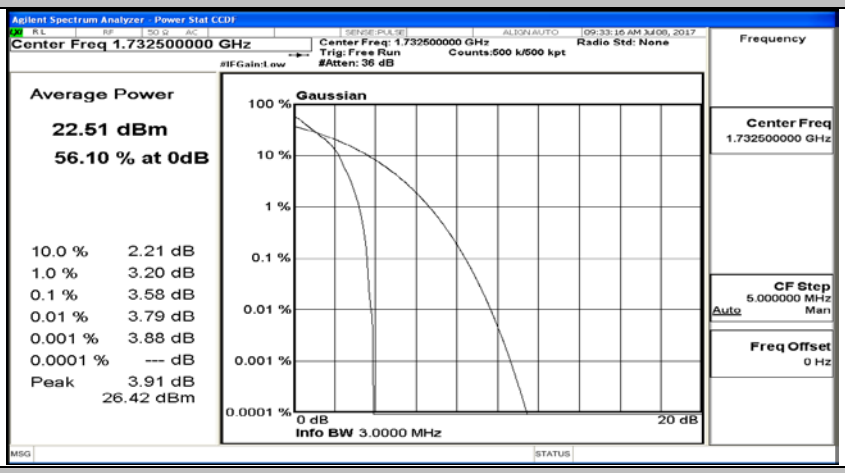
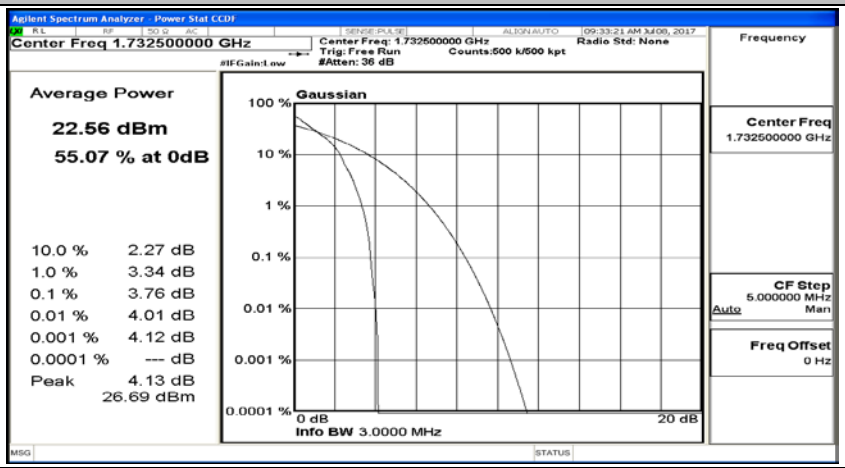


(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#0



(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#7



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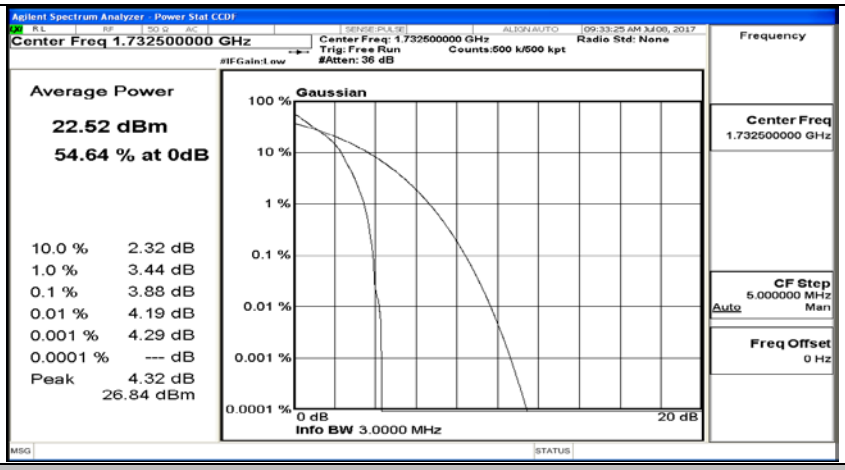
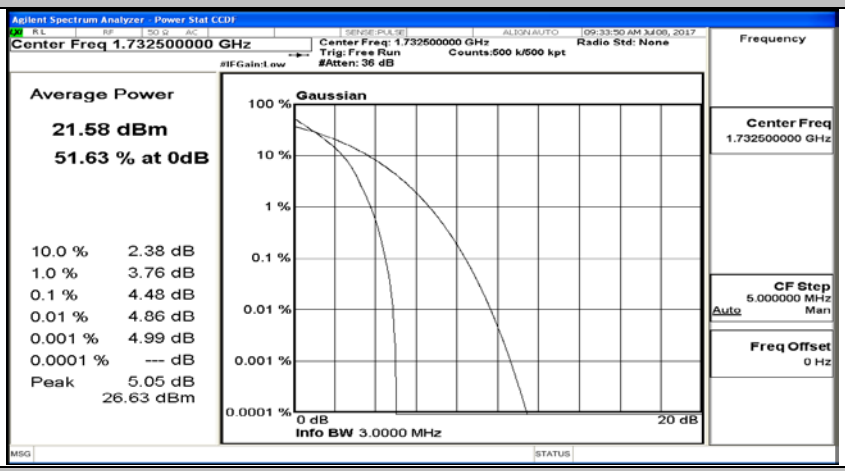
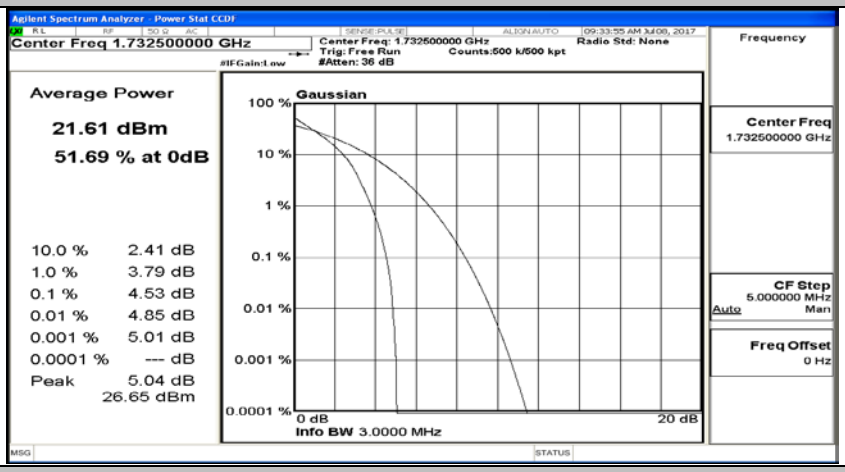


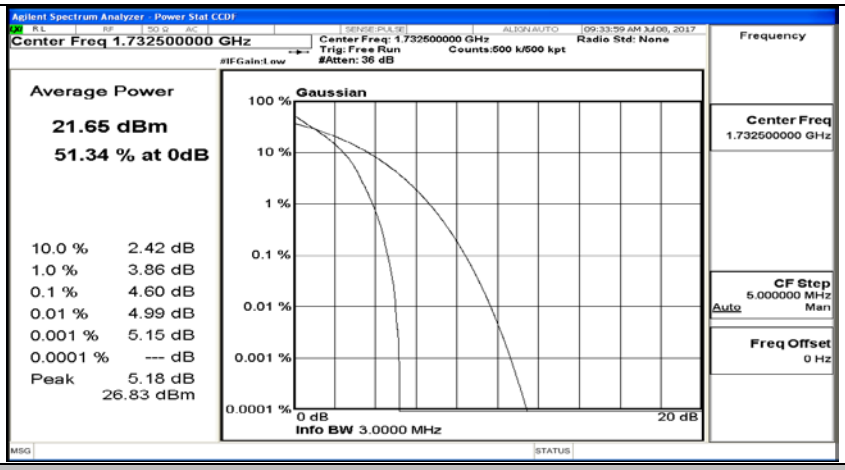
(Channel Bandwidth: 3 MHz)_MCH_QPSK_8RB#0



(Channel Bandwidth: 3 MHz)_MCH_QPSK_8RB#4



(Channel Bandwidth: 3 MHz)_MCH_QPSK_8RB#7



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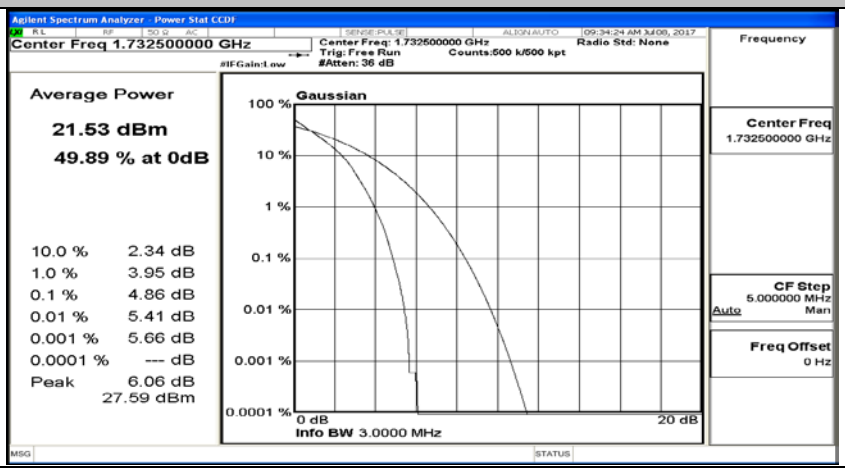

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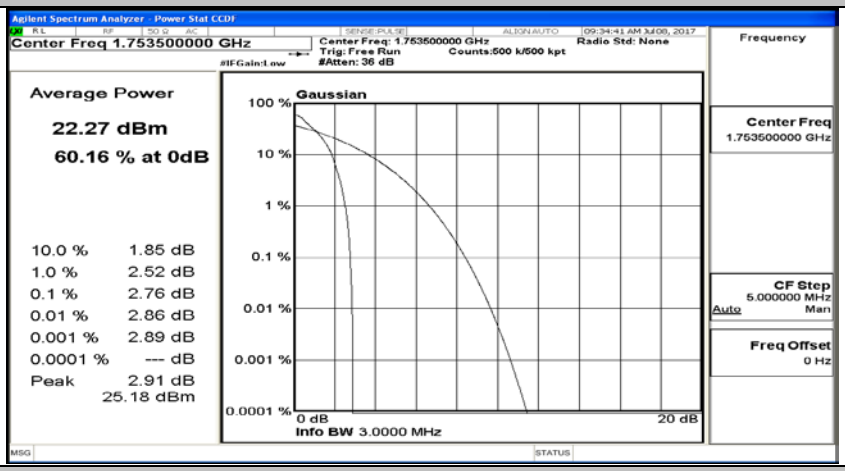
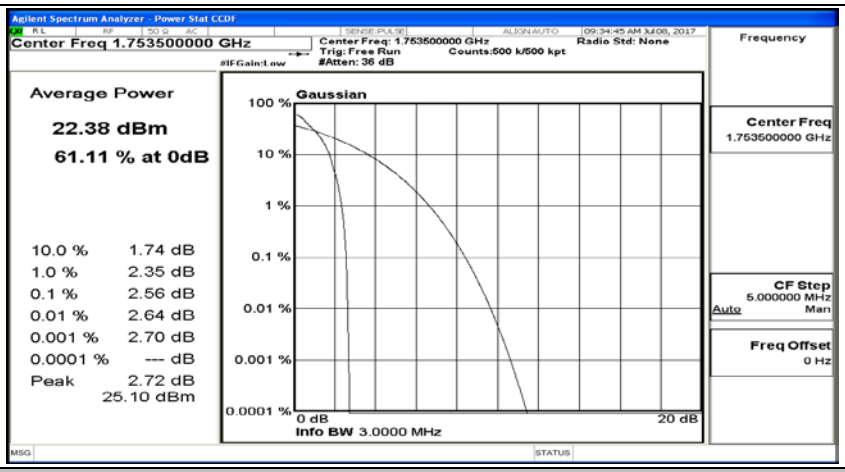
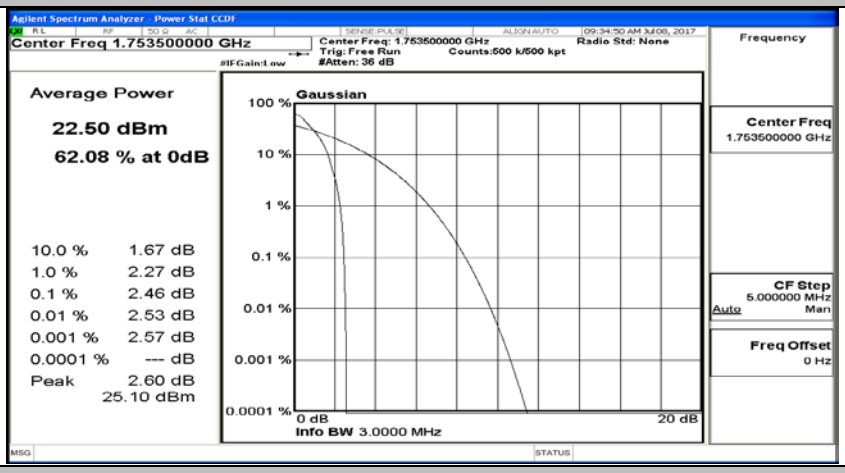


(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#7



(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#14



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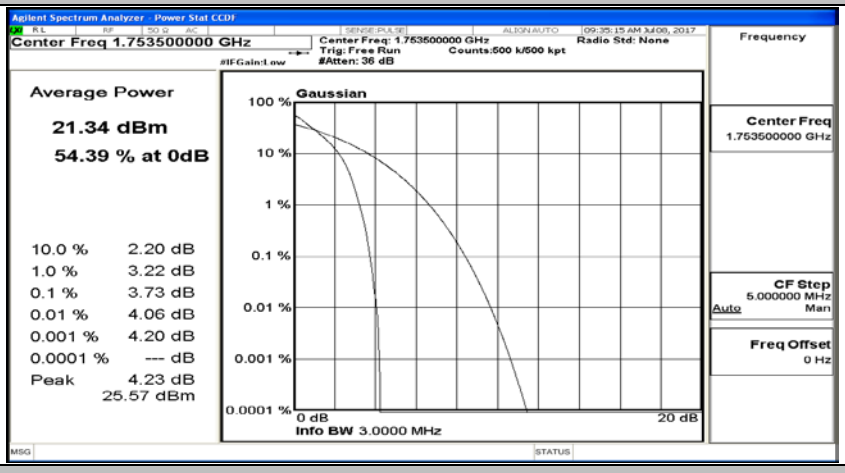

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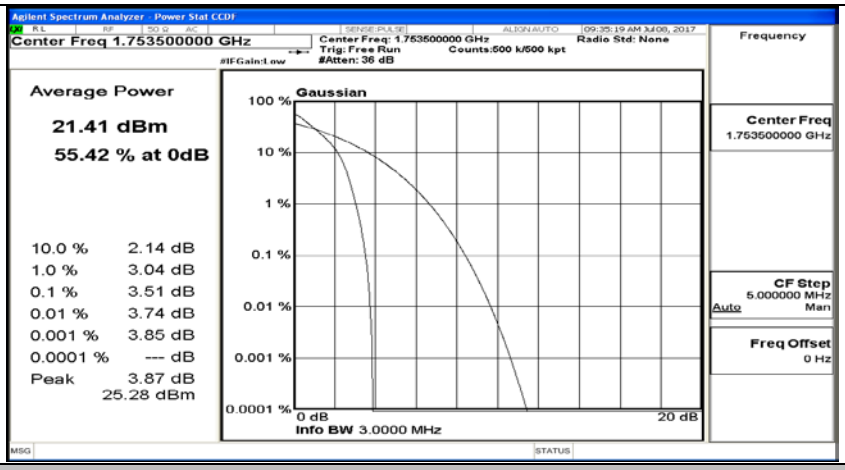
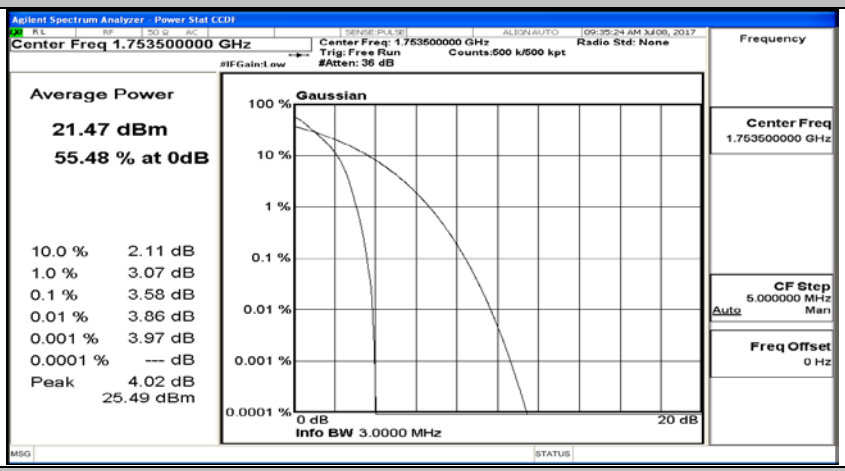
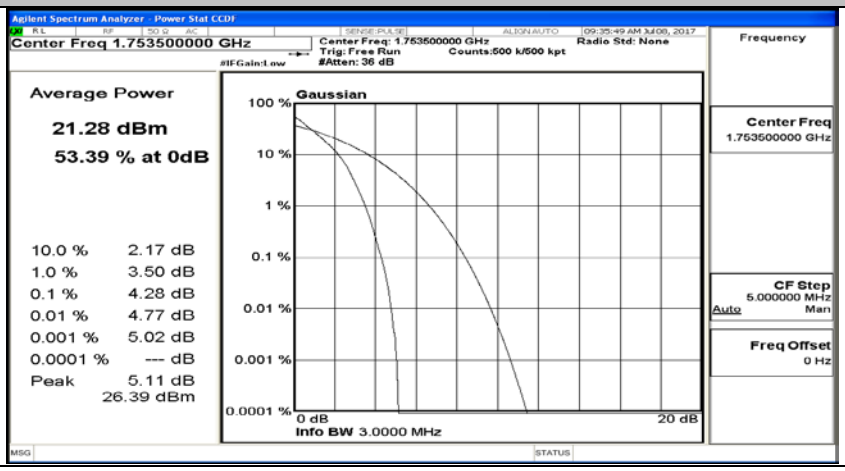


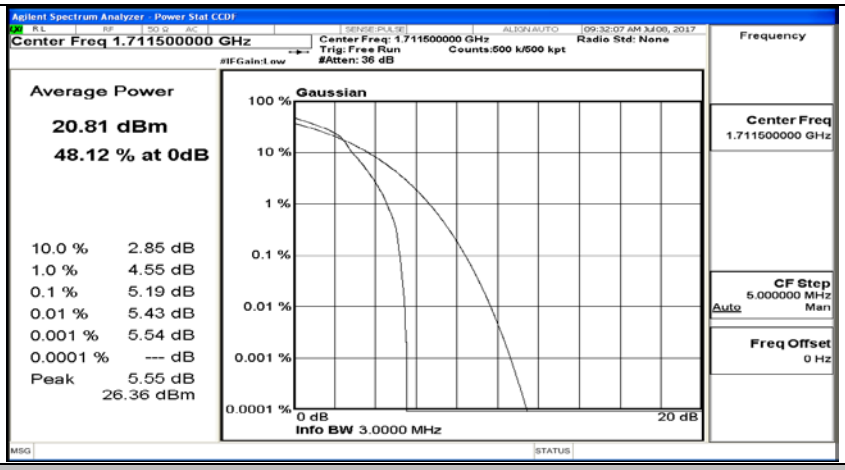
(Channel Bandwidth: 3 MHz)_HCH_QPSK_8RB#7



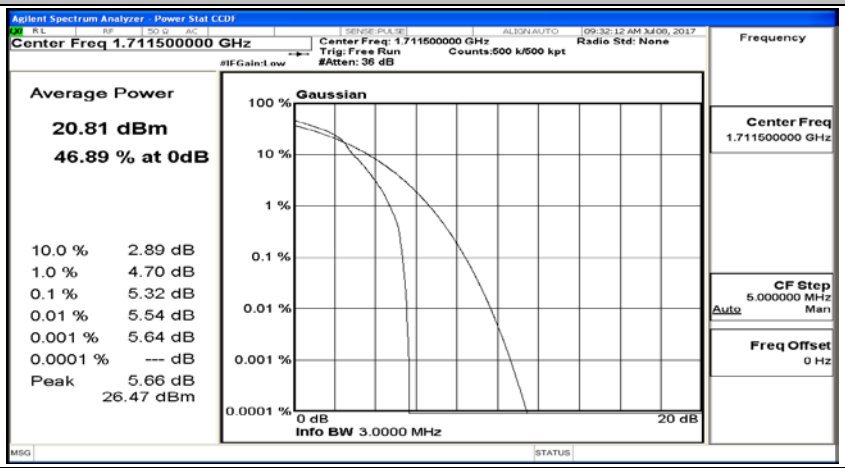
(Channel Bandwidth: 3 MHz)_HCH_QPSK_15RB#0



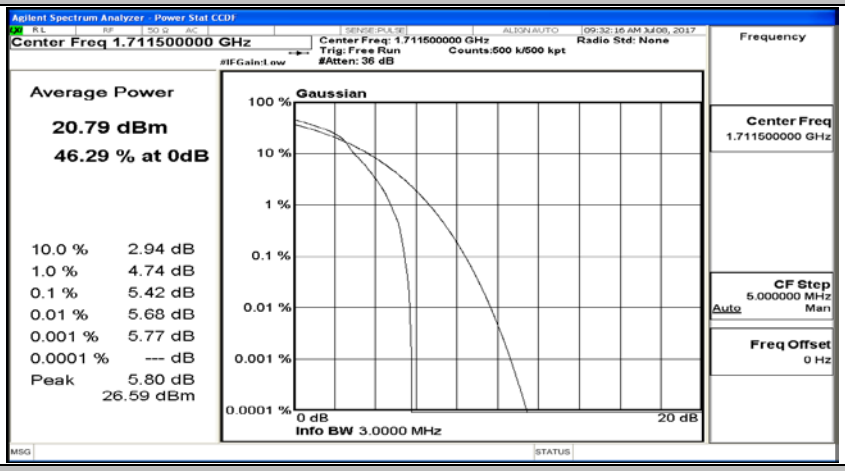
(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#0



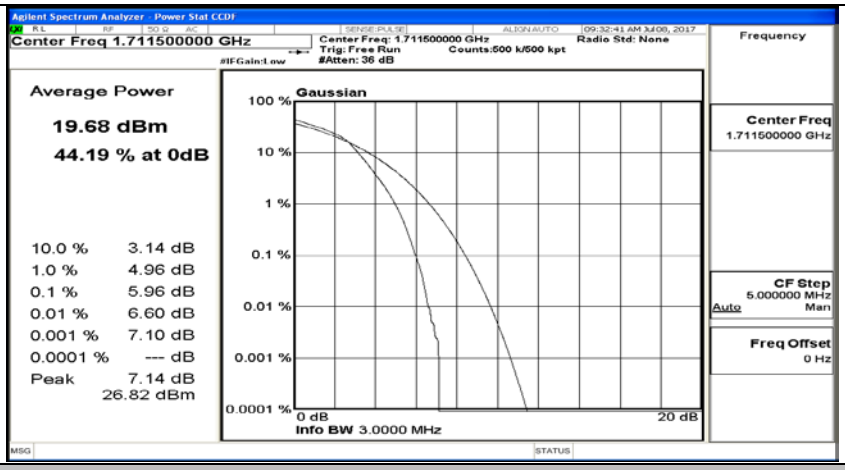
(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#7



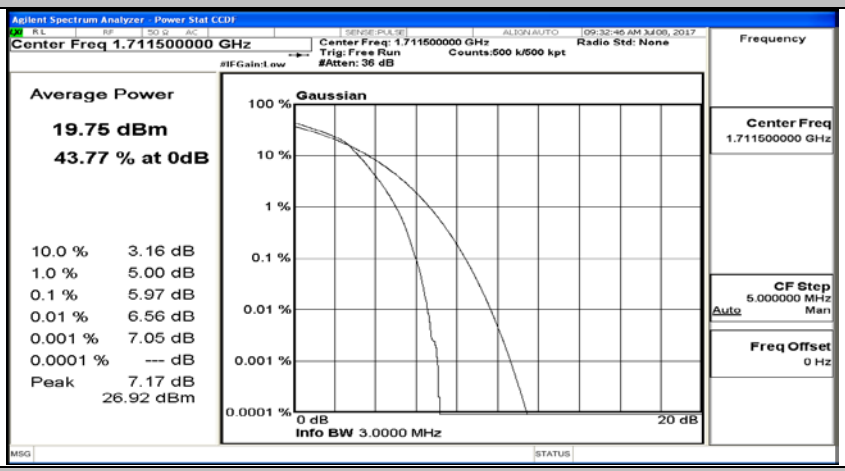
(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#14



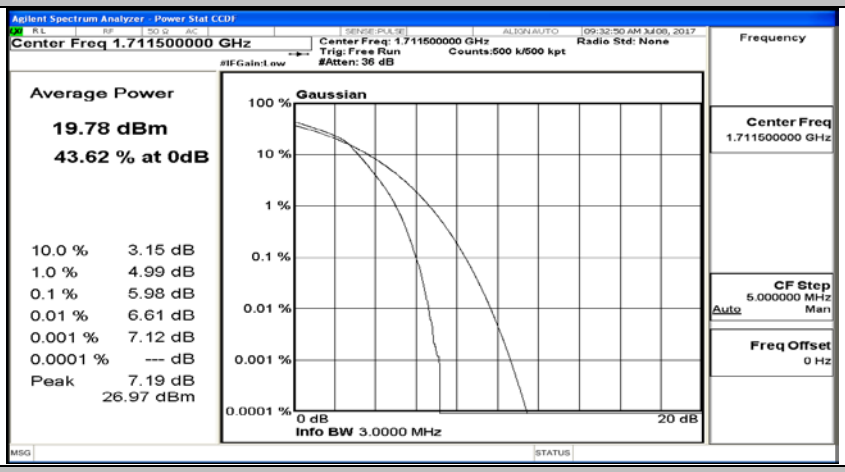
(Channel Bandwidth: 3 MHz)_LCH_16QAM_8RB#0



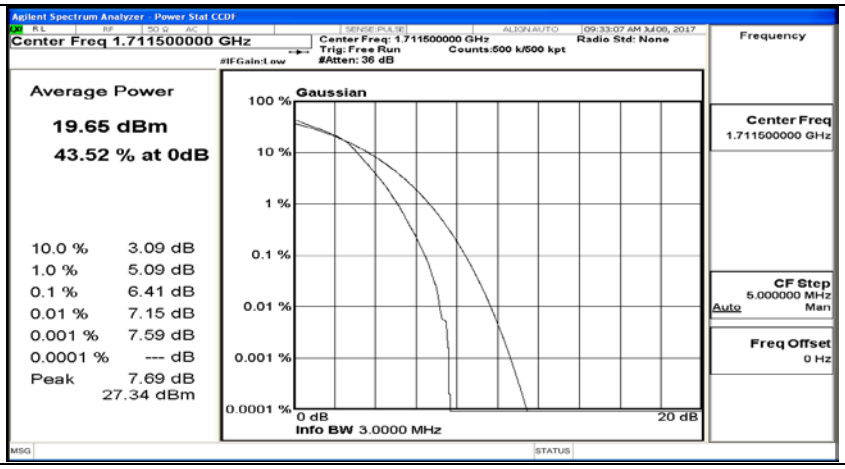
(Channel Bandwidth: 3 MHz)_LCH_16QAM_8RB#4



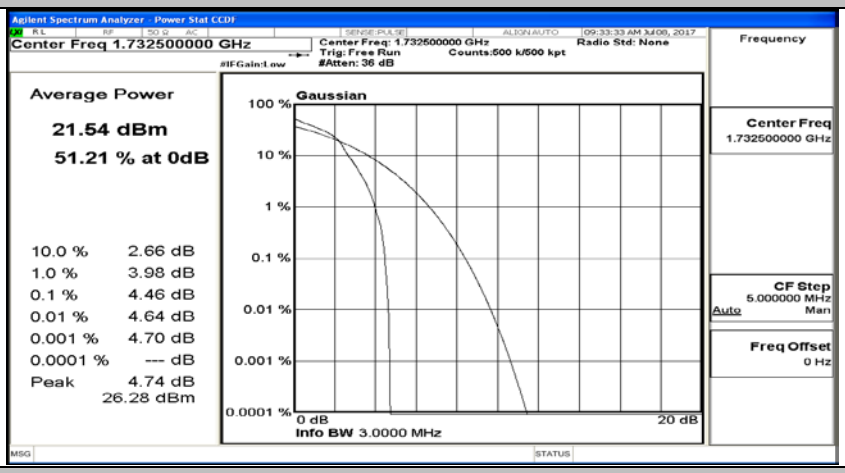
(Channel Bandwidth: 3 MHz)_LCH_16QAM_8RB#7



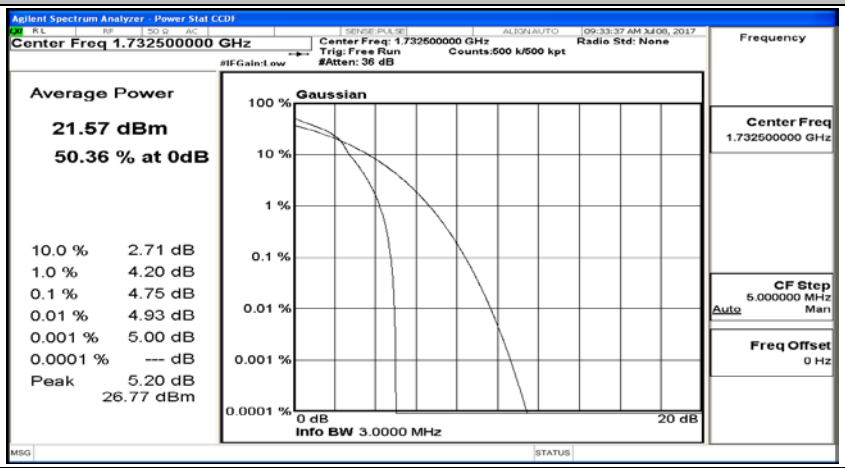
(Channel Bandwidth: 3 MHz)_LCH_16QAM_15RB#0



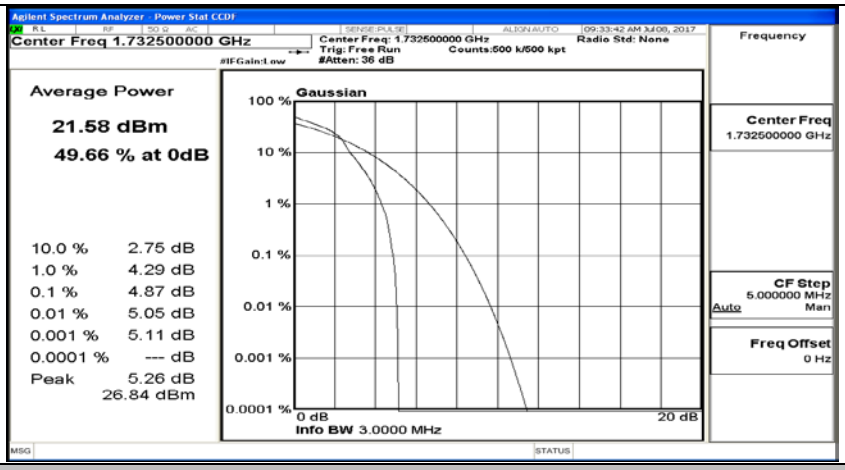
(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#0



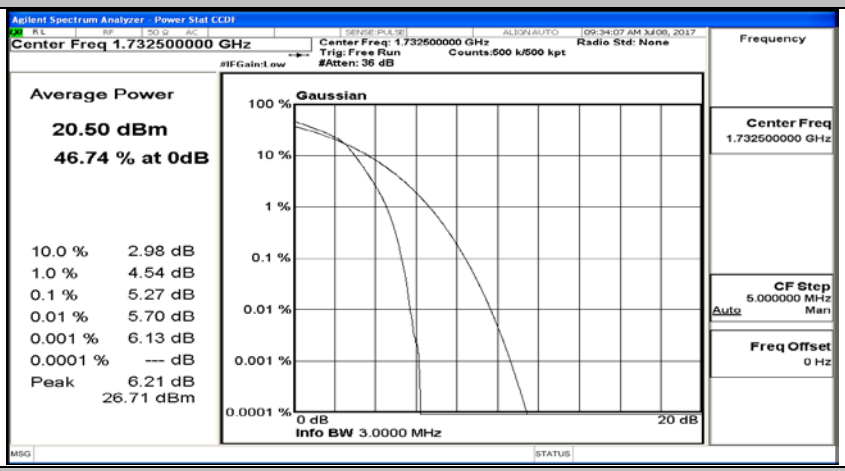
(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#7



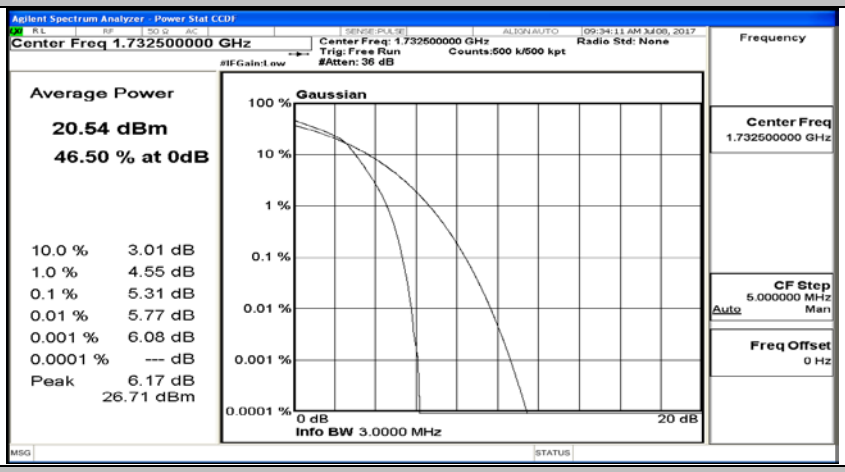
(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#14



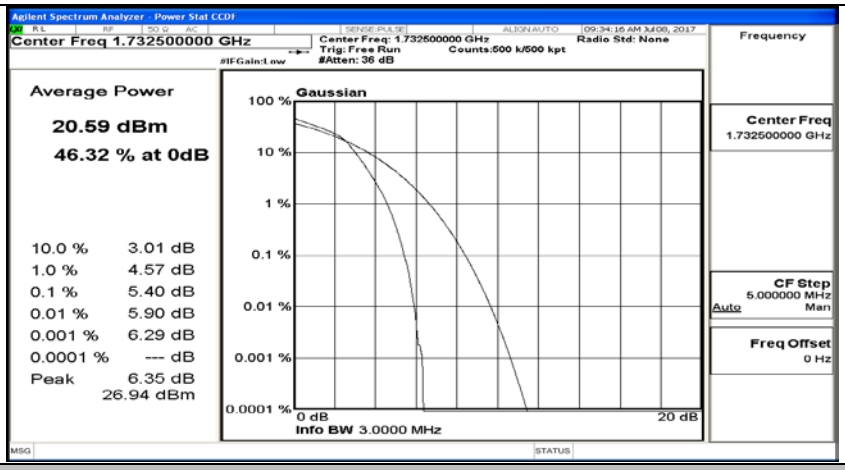
(Channel Bandwidth: 3 MHz)_MCH_16QAM_8RB#0



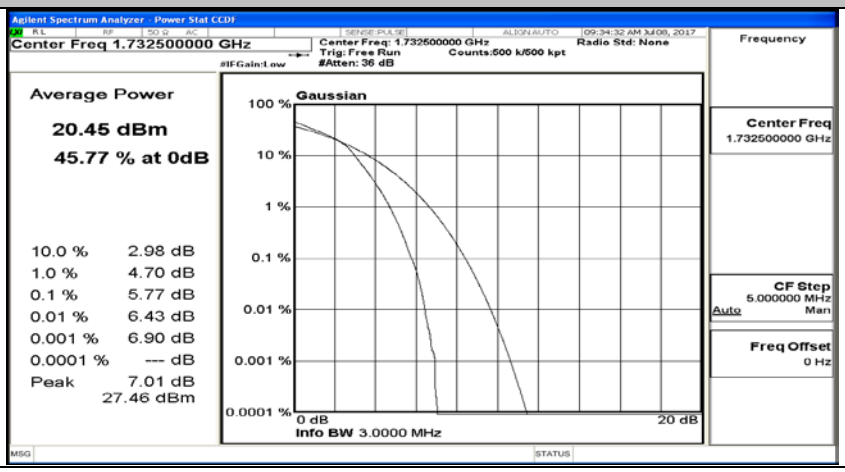
(Channel Bandwidth: 3 MHz)_MCH_16QAM_8RB#4



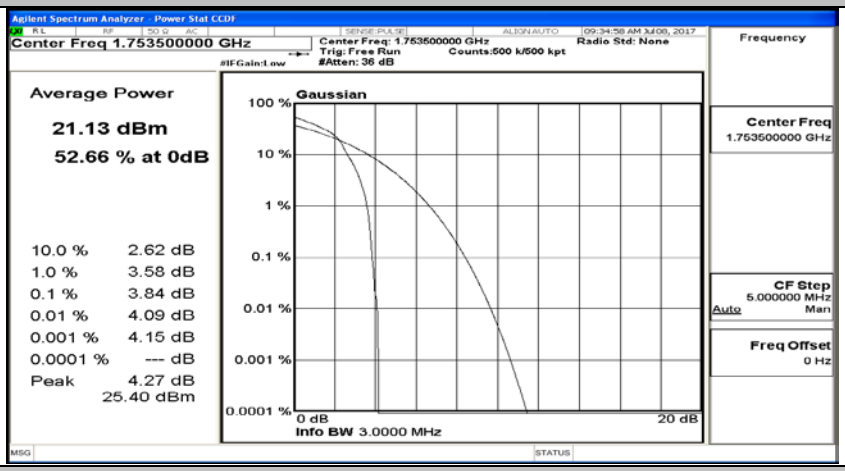
(Channel Bandwidth: 3 MHz)_MCH_16QAM_8RB#7



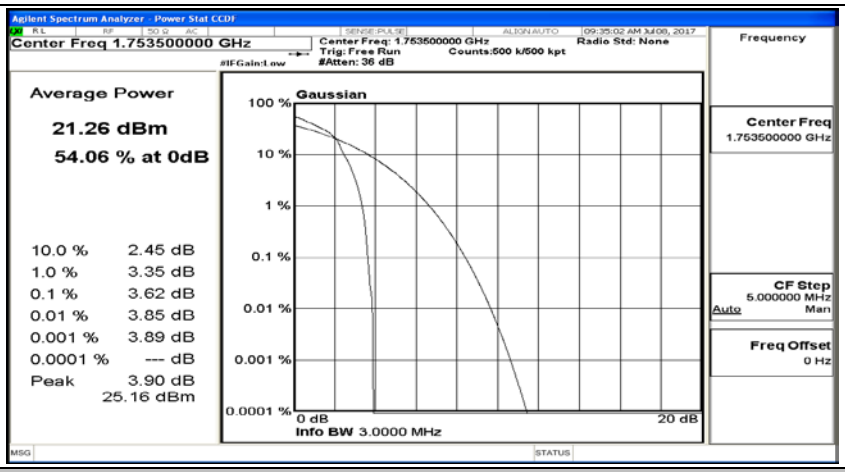
(Channel Bandwidth: 3 MHz)_MCH_16QAM_15RB#0



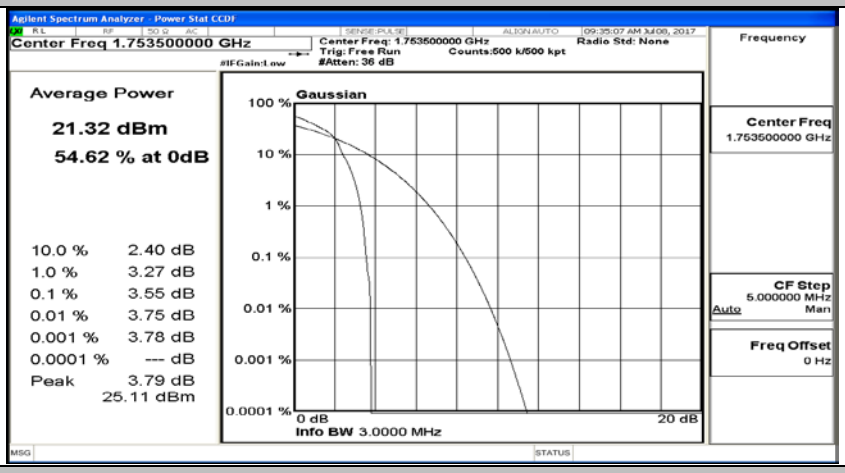
(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#0



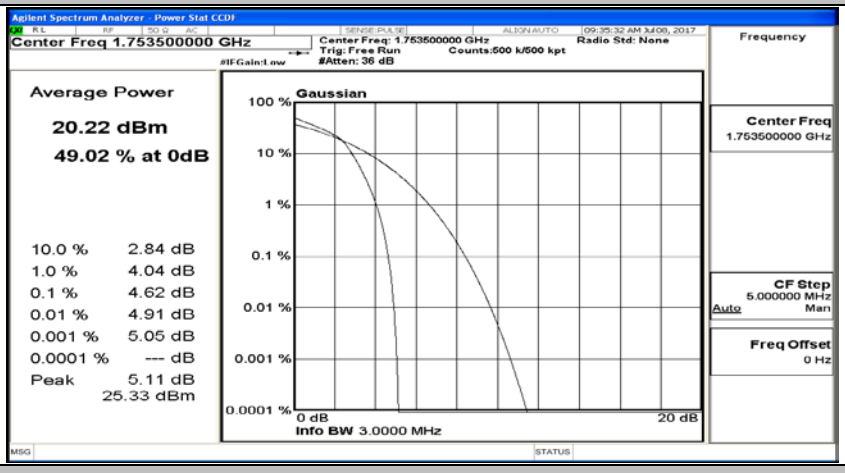
(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#7



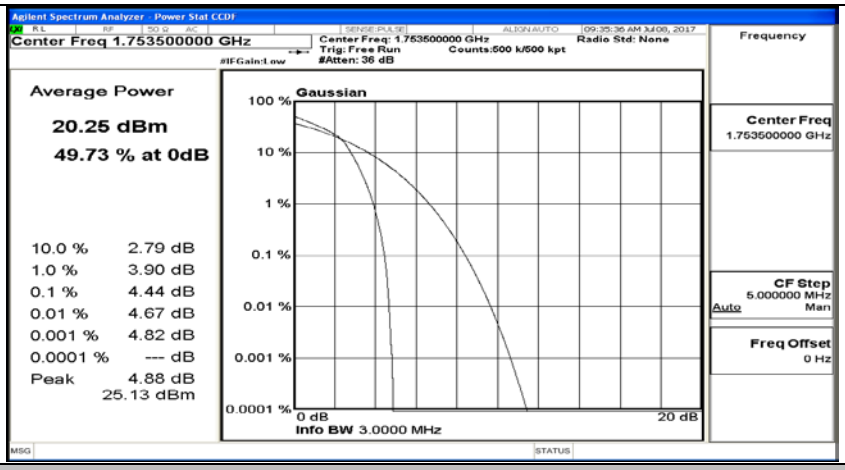
(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#14



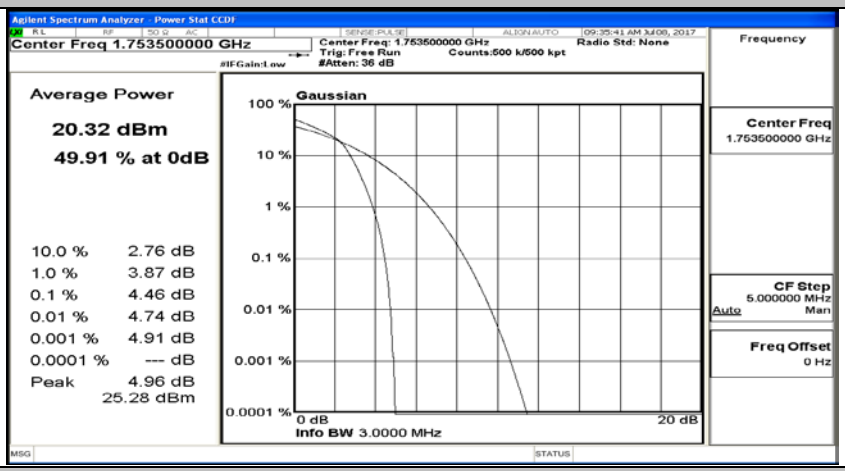
(Channel Bandwidth: 3 MHz)_HCH_16QAM_8RB#0



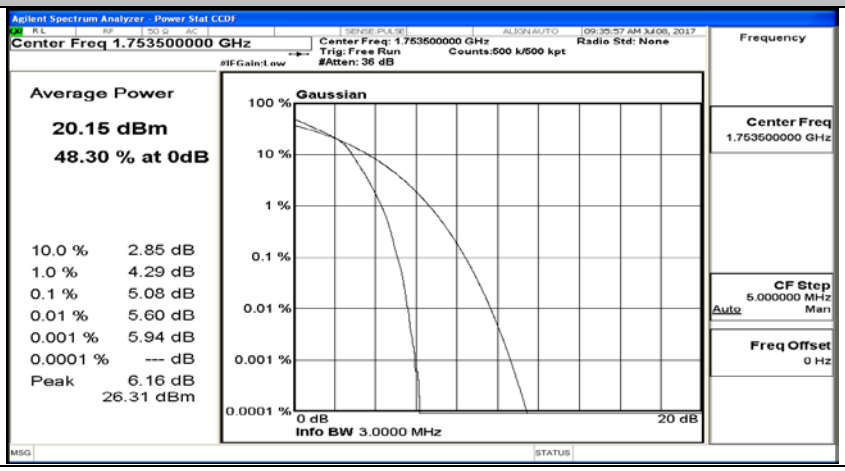
(Channel Bandwidth: 3 MHz)_HCH_16QAM_8RB#4



(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_1RB#0