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	2.89	<13	PASS
		1	3	2.89	<13	PASS
		1	5	2.91	<13	PASS
		3	0	3.03	<13	PASS
		3	2	2.95	<13	PASS
		3	3	3.08	<13	PASS
		6	0	4.36	<13	PASS
	MCH	1	0	3	<13	PASS
		1	3	2.95	<13	PASS
		1	5	2.99	<13	PASS
		3	0	2.46	<13	PASS
		3	2	2.36	<13	PASS
		3	3	2.51	<13	PASS
		6	0	3.65	<13	PASS
	HCH	1	0	3.24	<13	PASS
		1	3	3.22	<13	PASS
		1	5	3.18	<13	PASS
		3	0	4.11	<13	PASS
		3	2	4.05	<13	PASS
		3	3	4.2	<13	PASS
		6	0	5.03	<13	PASS
16QAM	LCH	1	0	3.87	<13	PASS
		1	3	3.84	<13	PASS
		1	5	3.95	<13	PASS
		3	0	3.93	<13	PASS
		3	2	3.97	<13	PASS
		3	3	3.99	<13	PASS
		6	0	5.25	<13	PASS
	MCH	1	0	3.47	<13	PASS
		1	3	3.18	<13	PASS
		1	5	3.33	<13	PASS
		3	0	3.46	<13	PASS
		3	2	3.43	<13	PASS

		3	3	3.49	<13	PASS
		6	0	4.61	<13	PASS
	HCH	1	0	4.22	<13	PASS
		1	3	4.06	<13	PASS
		1	5	4.29	<13	PASS
		3	0	4.71	<13	PASS
		3	2	4.6	<13	PASS
		3	3	4.49	<13	PASS
		6	0	5.5	<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	1.98	<13	PASS
		1	7	3.13	<13	PASS
		1	14	3.14	<13	PASS
		8	0	4.2	<13	PASS
		8	4	4.16	<13	PASS
		8	7	4.37	<13	PASS
		15	0	4.82	<13	PASS
	MCH	1	0	2.19	<13	PASS
		1	7	2.39	<13	PASS
		1	14	2.37	<13	PASS
		8	0	3.43	<13	PASS
		8	4	3.25	<13	PASS
		8	7	3.45	<13	PASS
		15	0	4.17	<13	PASS
	HCH	1	0	3.13	<13	PASS
		1	7	3.16	<13	PASS
		1	14	3.22	<13	PASS
		8	0	4.31	<13	PASS
		8	4	4.26	<13	PASS
		8	7	4.41	<13	PASS
		15	0	5.08	<13	PASS
16QAM	LCH	1	0	3.92	<13	PASS
		1	7	3.94	<13	PASS
		1	14	4.05	<13	PASS
		8	0	5.09	<13	PASS
		8	4	5.1	<13	PASS
		8	7	5.22	<13	PASS

		15	0	5.7	<13	PASS
	MCH	1	0	3.33	<13	PASS
		1	7	3.25	<13	PASS
		1	14	3.31	<13	PASS
		8	0	4.34	<13	PASS
		8	4	4.21	<13	PASS
		8	7	4.36	<13	PASS
		15	0	5.01	<13	PASS
	HCH	1	0	4.08	<13	PASS
		1	7	4.09	<13	PASS
		1	14	4.2	<13	PASS
		8	0	5.13	<13	PASS
		8	4	5.1	<13	PASS
		8	7	5.2	<13	PASS
		15	0	5.66	<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	1.97	<13	PASS
		1	12	2.9	<13	PASS
		1	24	3.38	<13	PASS
		12	0	4.3	<13	PASS
		12	6	4.26	<13	PASS
		12	13	4.45	<13	PASS
		25	0	4.94	<13	PASS
	MCH	1	0	2.11	<13	PASS
		1	12	2.14	<13	PASS
		1	24	2.41	<13	PASS
		12	0	3.44	<13	PASS
		12	6	3.28	<13	PASS
		12	13	3.49	<13	PASS
		25	0	4.12	<13	PASS
	HCH	1	0	2.95	<13	PASS
		1	12	3.09	<13	PASS
		1	24	3.25	<13	PASS
		12	0	4.23	<13	PASS
		12	6	4.15	<13	PASS
		12	13	4.35	<13	PASS
		25	0	4.87	<13	PASS

16QAM	LCH	1	0	3.96	<13	PASS
		1	12	4.01	<13	PASS
		1	24	4.36	<13	PASS
		12	0	5.27	<13	PASS
		12	6	4.83	<13	PASS
		12	13	5.19	<13	PASS
		25	0	5.63	<13	PASS
	MCH	1	0	3.23	<13	PASS
		1	12	3.25	<13	PASS
		1	24	3.35	<13	PASS
		12	0	4.39	<13	PASS
		12	6	4.27	<13	PASS
		12	13	4.4	<13	PASS
		25	0	4.95	<13	PASS
	HCH	1	0	3.79	<13	PASS
		1	12	3.94	<13	PASS
		1	24	4.04	<13	PASS
		12	0	5.17	<13	PASS
		12	6	5.13	<13	PASS
		12	13	5.29	<13	PASS
		25	0	5.53	<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	2.25	<13	PASS
		1	24	3.57	<13	PASS
		1	49	3.86	<13	PASS
		25	0	4.58	<13	PASS
		25	12	4.6	<13	PASS
		25	25	4.94	<13	PASS
		50	0	5.13	<13	PASS
	MCH	1	0	2.3	<13	PASS
		1	24	2.5	<13	PASS
		1	49	3.03	<13	PASS
		25	0	3.77	<13	PASS
		25	12	3.5	<13	PASS
		25	25	3.83	<13	PASS
		50	0	4.41	<13	PASS
	HCH	1	0	2.66	<13	PASS

		1	24	2.9	<13	PASS
		1	49	3.18	<13	PASS
		25	0	4.36	<13	PASS
		25	12	4.21	<13	PASS
		25	25	4.59	<13	PASS
		50	0	4.94	<13	PASS
16QAM	LCH	1	0	3.79	<13	PASS
		1	24	4.3	<13	PASS
		1	49	4.79	<13	PASS
		25	0	5.46	<13	PASS
		25	12	5.55	<13	PASS
		25	25	5.88	<13	PASS
		50	0	5.94	<13	PASS
	MCH	1	0	3.36	<13	PASS
		1	24	3.25	<13	PASS
		1	49	3.27	<13	PASS
		25	0	4.65	<13	PASS
		25	12	4.44	<13	PASS
		25	25	4.71	<13	PASS
		50	0	5.15	<13	PASS
	HCH	1	0	3.67	<13	PASS
		1	24	3.91	<13	PASS
		1	49	4.12	<13	PASS
		25	0	5.18	<13	PASS
		25	12	5.1	<13	PASS
		25	25	5.36	<13	PASS
		50	0	5.67	<13	PASS

Channel Bandwidth: 15 MHz

Channel Bandwidth: 15 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio	Limit	Verdict
		Size	Offset	[dB]	[dB]	
QPSK	LCH	1	0	8.91	<13	PASS
		1	37	3.71	<13	PASS
		1	74	10.18	<13	PASS
		37	0	4.47	<13	PASS
		37	18	5	<13	PASS
		37	38	4.93	<13	PASS
		75	0	5.18	<13	PASS
	MCH	1	0	9.21	<13	PASS
		1	37	2.24	<13	PASS

		1	74	10.84	<13	PASS
		37	0	4.34	<13	PASS
		37	18	3.82	<13	PASS
		37	38	4.52	<13	PASS
		75	0	4.82	<13	PASS
	HCH	1	0	8.51	<13	PASS
		1	37	2.79	<13	PASS
		1	74	10.03	<13	PASS
		37	0	4.68	<13	PASS
		37	18	4.79	<13	PASS
		37	38	5.1	<13	PASS
		75	0	5.55	<13	PASS
16QAM	LCH	1	0	8.41	<13	PASS
		1	37	4.74	<13	PASS
		1	74	10.44	<13	PASS
		37	0	5.82	<13	PASS
		37	18	5.91	<13	PASS
		37	38	6.07	<13	PASS
		75	0	6.51	<13	PASS
	MCH	1	0	8.82	<13	PASS
		1	37	3.28	<13	PASS
		1	74	10.83	<13	PASS
		37	0	5.25	<13	PASS
		37	18	4.72	<13	PASS
		37	38	5.48	<13	PASS
		75	0	5.79	<13	PASS
	HCH	1	0	8.39	<13	PASS
		1	37	3.77	<13	PASS
		1	74	10.74	<13	PASS
		37	0	5.64	<13	PASS
		37	18	5.26	<13	PASS
		37	38	5.9	<13	PASS
		75	0	6.08	<13	PASS

Channel Bandwidth: 20 MHz

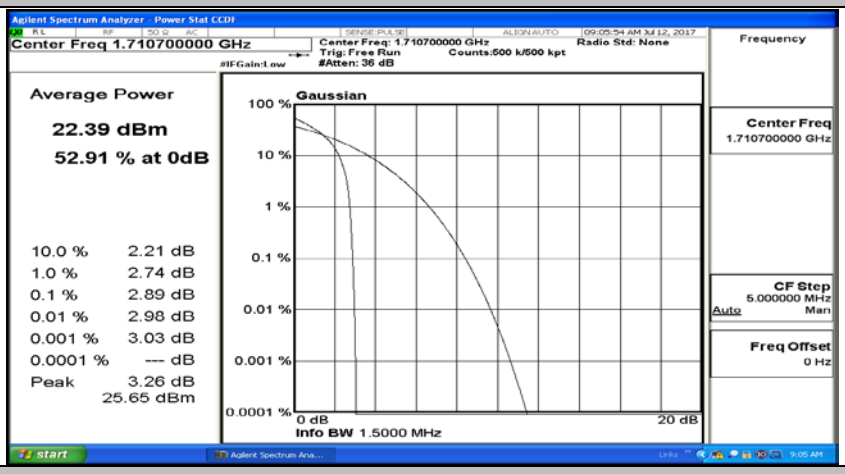
Channel Bandwidth: 20 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	LCH	1	0	9.69	<13	PASS
		1	49	3.59	<13	PASS
		1	99	8.42	<13	PASS

		50	0	5.53	<13	PASS
		50	25	5.1	<13	PASS
		50	50	6.04	<13	PASS
		100	0	6.24	<13	PASS
	MCH	1	0	8.52	<13	PASS
		1	49	2.16	<13	PASS
		1	99	9.02	<13	PASS
		50	0	5.25	<13	PASS
		50	25	4.43	<13	PASS
		50	50	5.45	<13	PASS
		100	0	5.7	<13	PASS
	HCH	1	0	8.4	<13	PASS
		1	49	2.63	<13	PASS
		1	99	9.22	<13	PASS
		50	0	5.46	<13	PASS
		50	25	4.77	<13	PASS
		50	50	6.17	<13	PASS
		100	0	6.23	<13	PASS
16QAM	LCH	1	0	7.95	<13	PASS
		1	49	4.69	<13	PASS
		1	99	8.07	<13	PASS
		50	0	6.67	<13	PASS
		50	25	5.74	<13	PASS
		50	50	6.68	<13	PASS
		100	0	6.7	<13	PASS
	MCH	1	0	9.06	<13	PASS
		1	49	3.12	<13	PASS
		1	99	8.64	<13	PASS
		50	0	6.08	<13	PASS
		50	25	5.14	<13	PASS
		50	50	6.26	<13	PASS
		100	0	6.49	<13	PASS
	HCH	1	0	8.78	<13	PASS
		1	49	3.56	<13	PASS
		1	99	8.95	<13	PASS
		50	0	6.35	<13	PASS
		50	25	5.46	<13	PASS
		50	50	6.47	<13	PASS
		100	0	6.67	<13	PASS

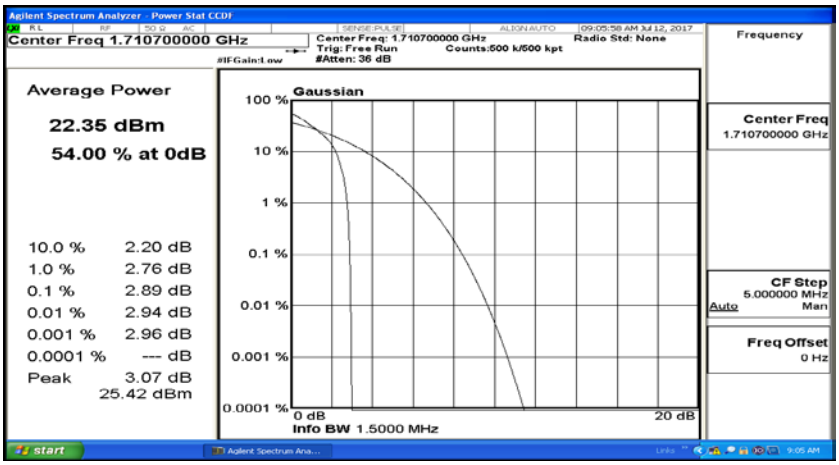
Test Graphs

Channel Bandwidth: 1.4 MHz

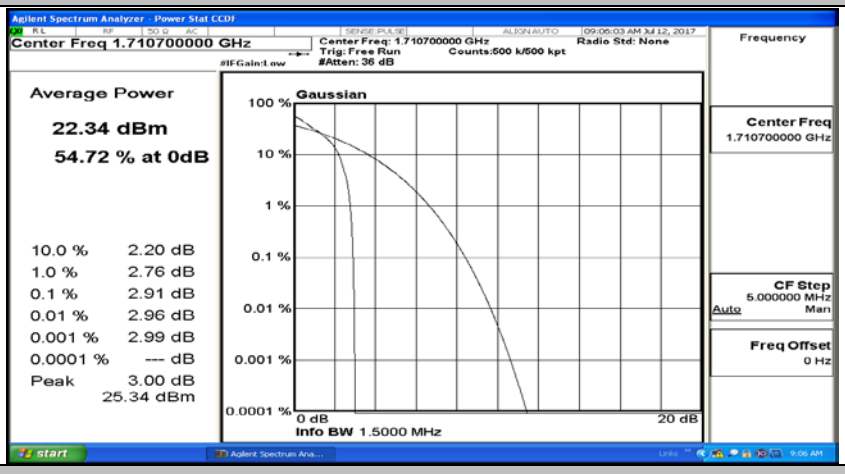
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#0



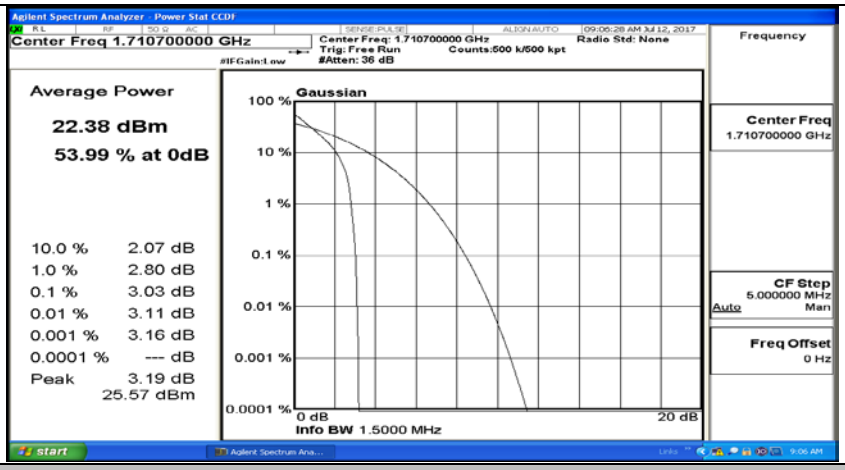
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#3



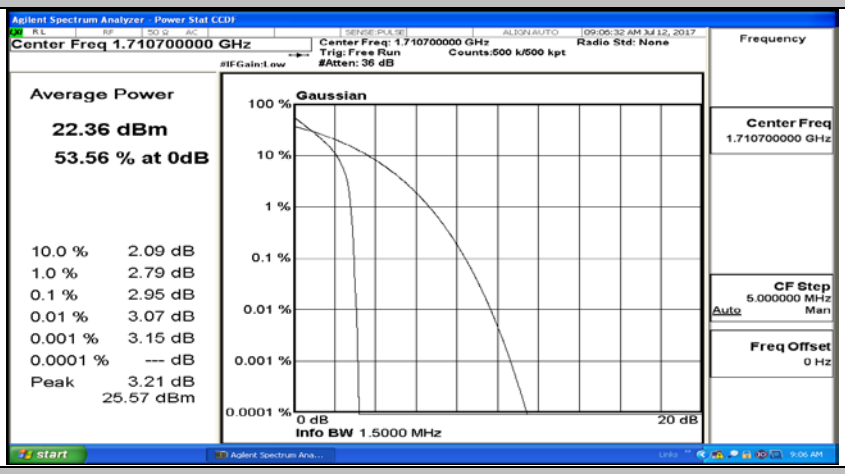
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#5



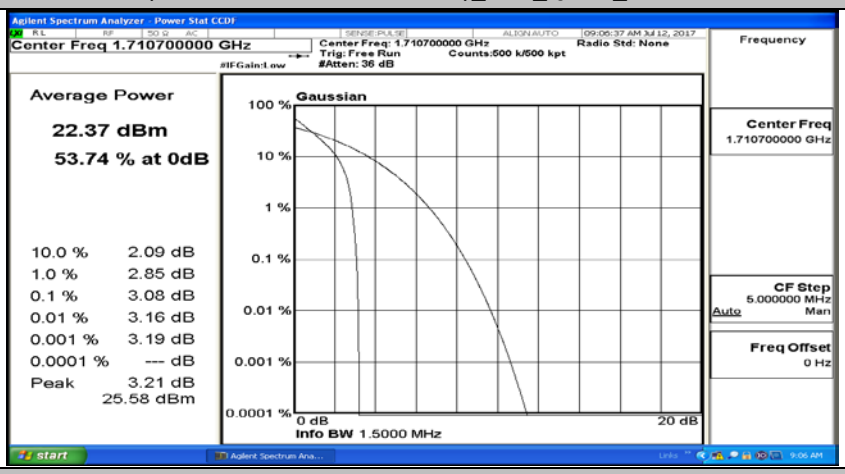
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_3RB#0



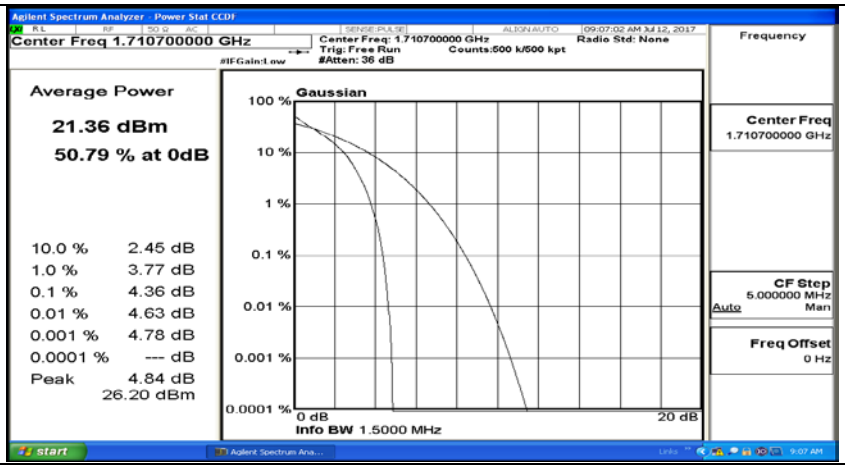
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_3RB#2



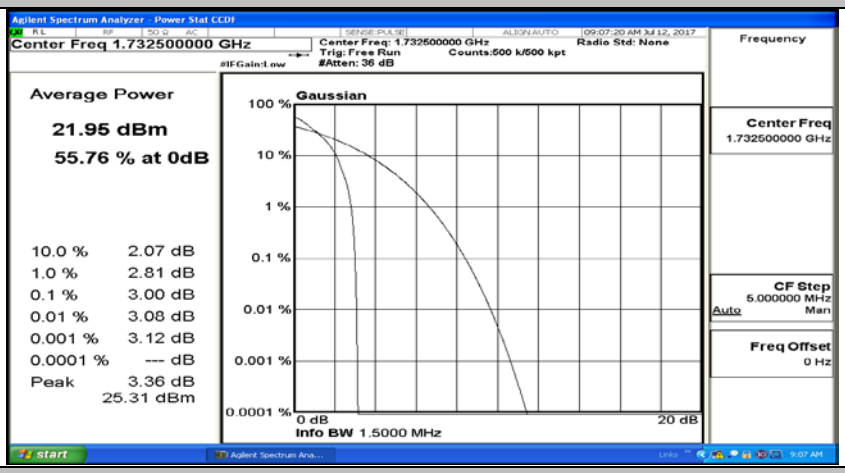
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_3RB#3



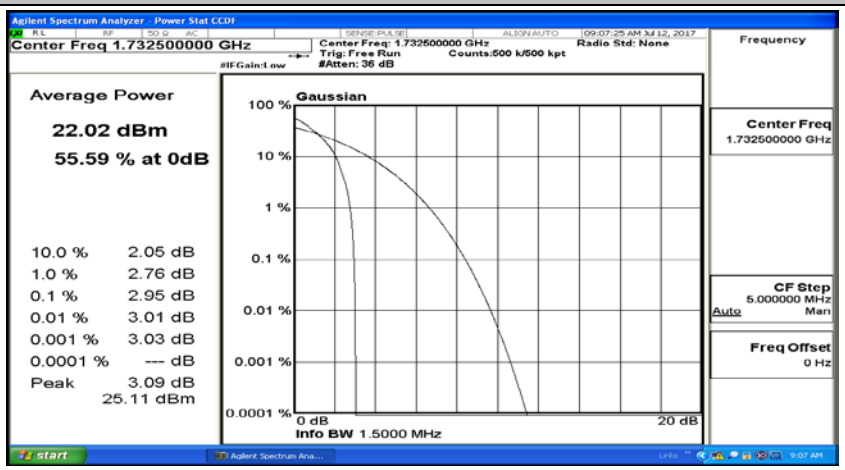
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_6RB#0



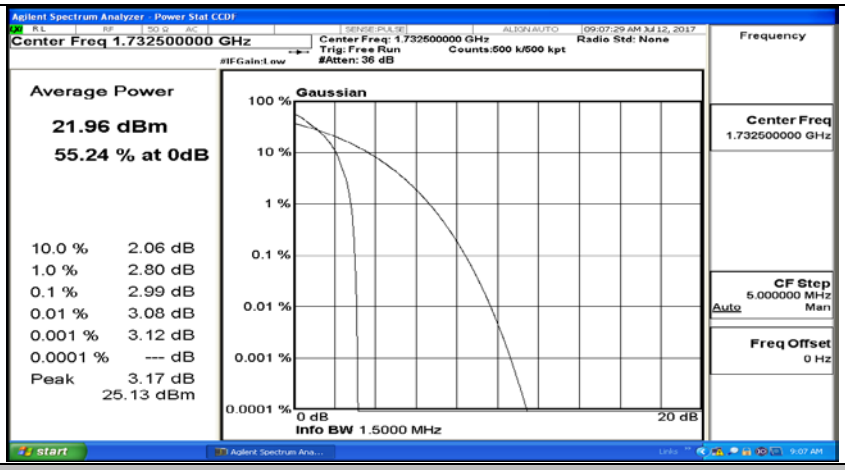
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#0



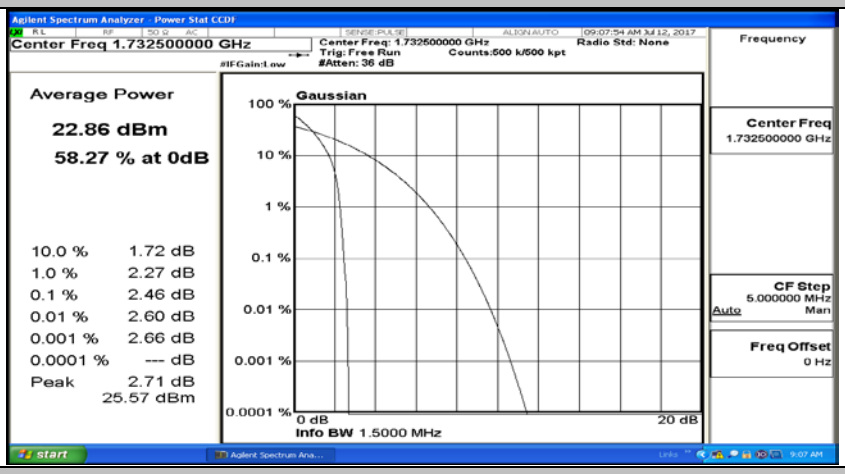
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#3



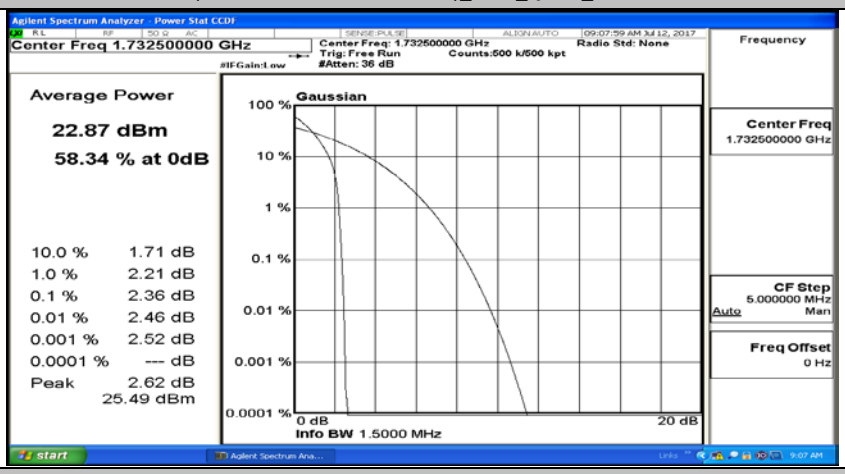
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#5



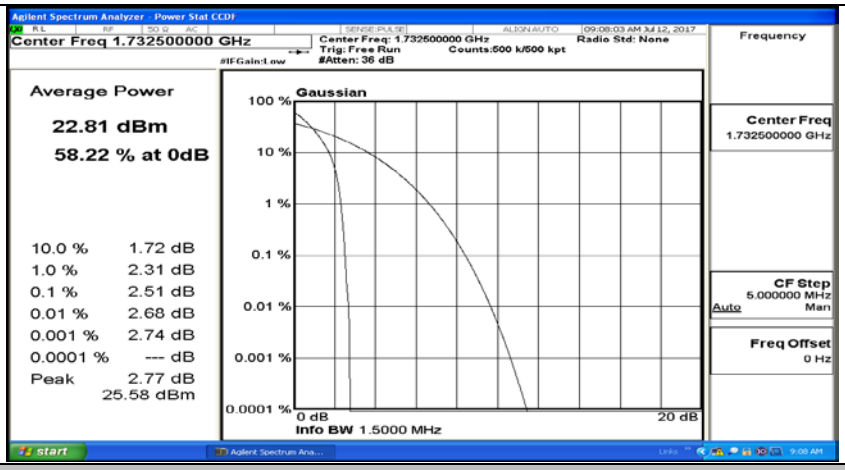
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_3RB#0



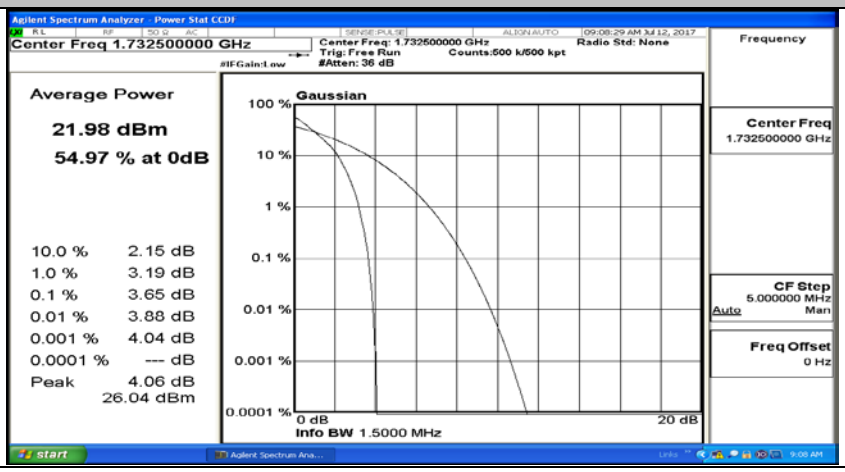
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_3RB#2



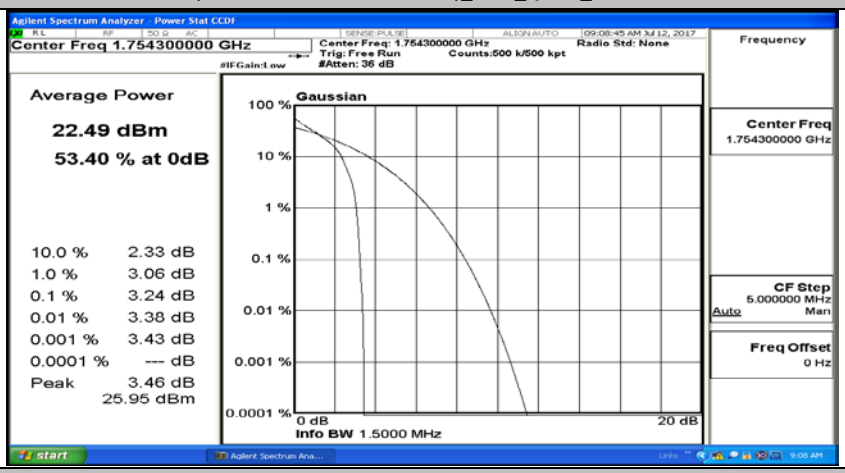
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_3RB#3



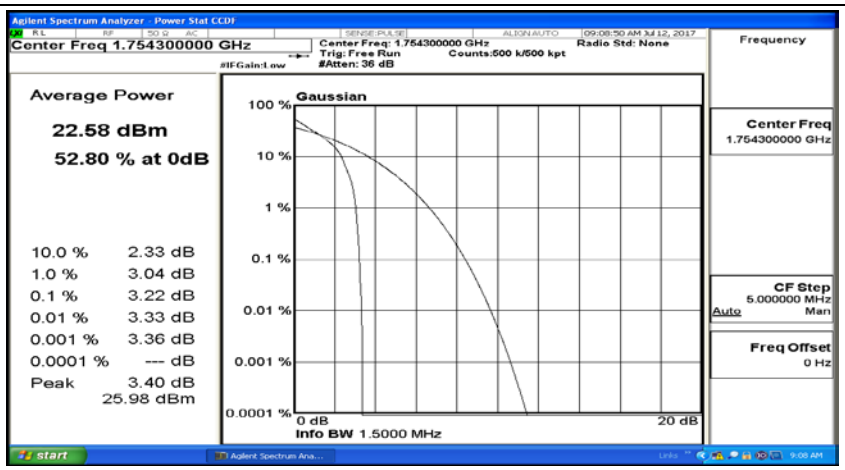
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_6RB#0



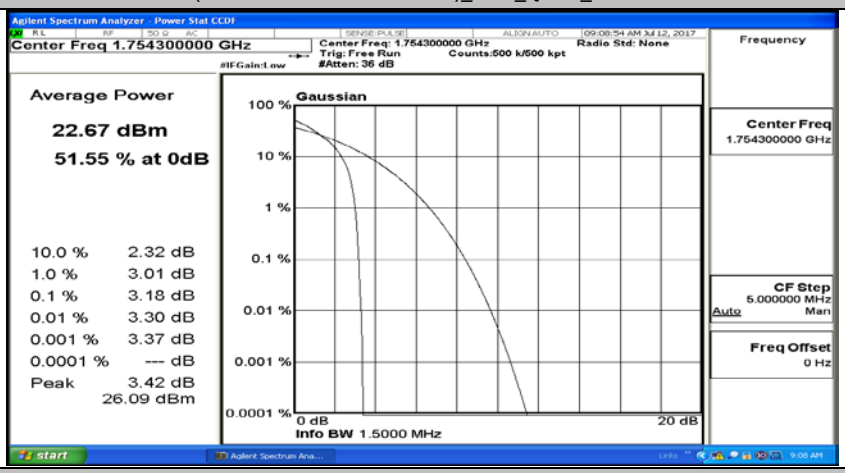
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#0



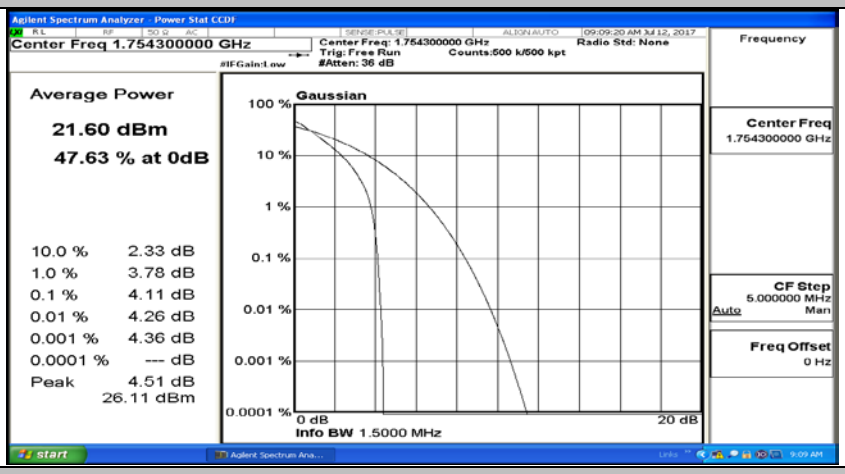
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#3



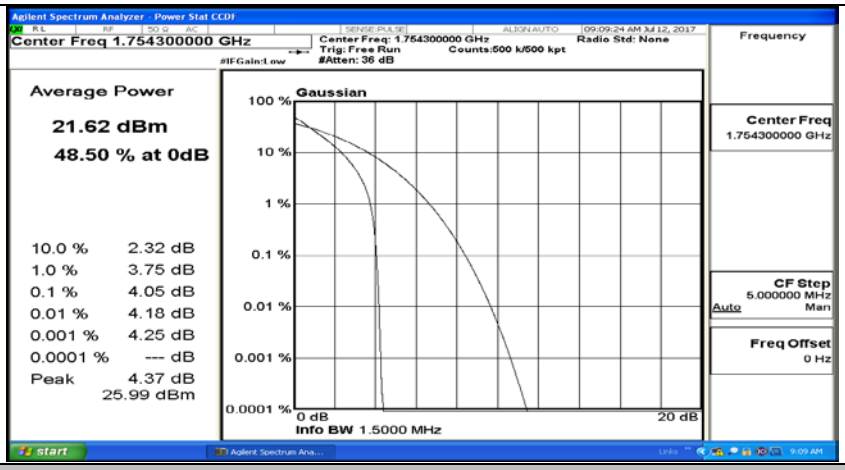
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#5



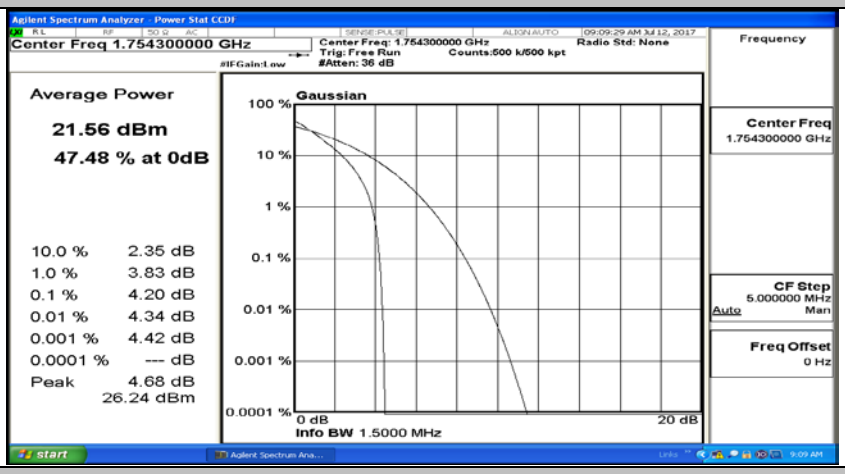
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_3RB#0



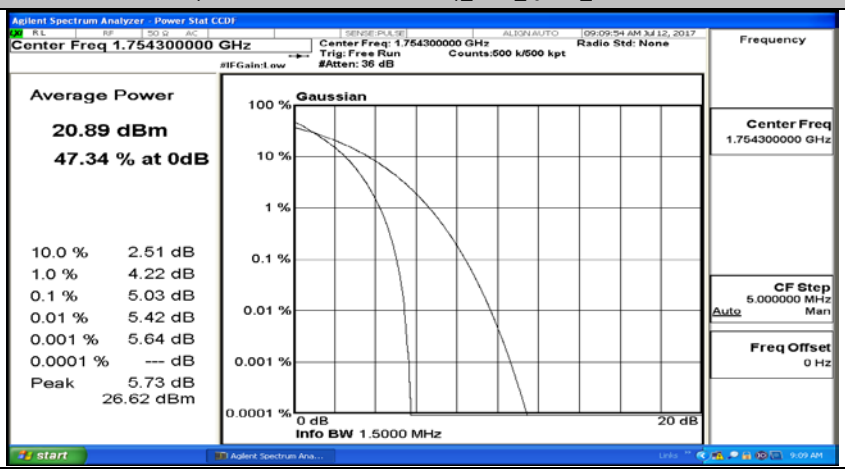
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_3RB#2



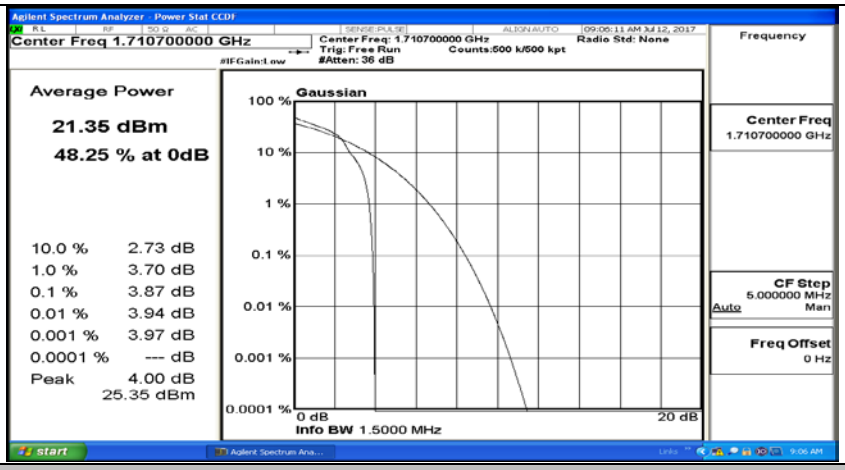
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_3RB#3



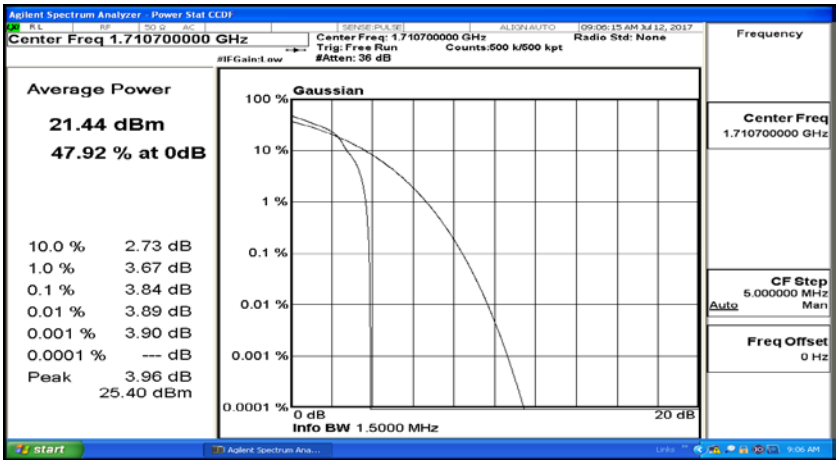
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_6RB#0



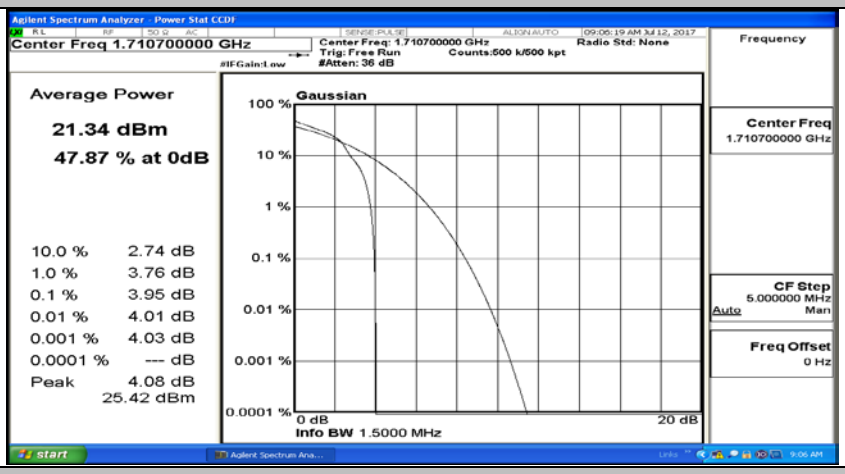
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#0



(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#3



(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#5



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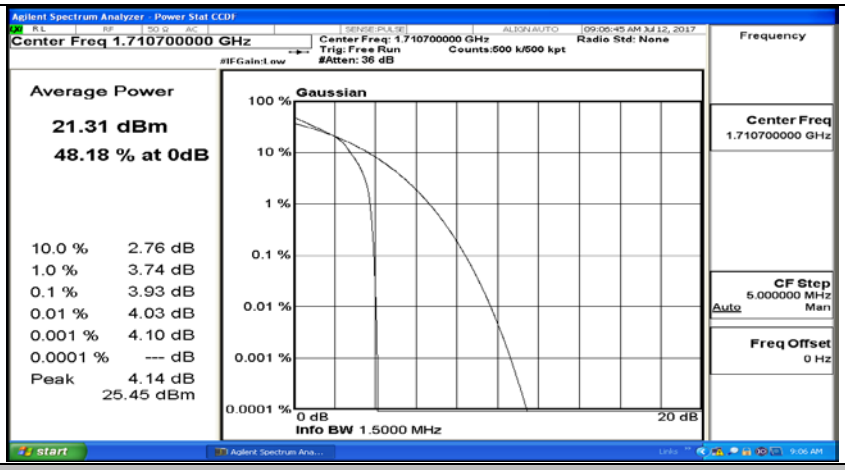

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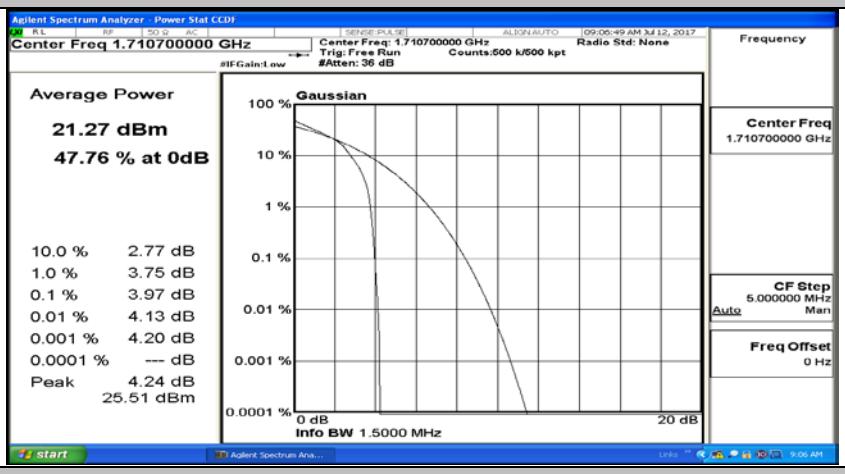

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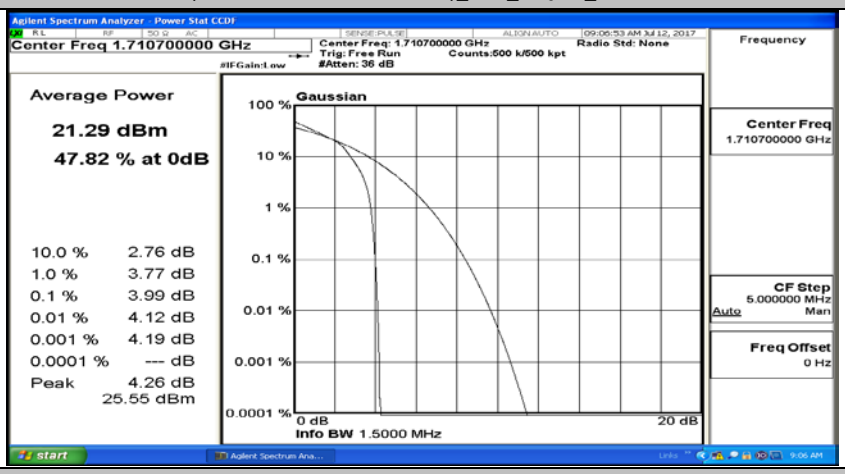

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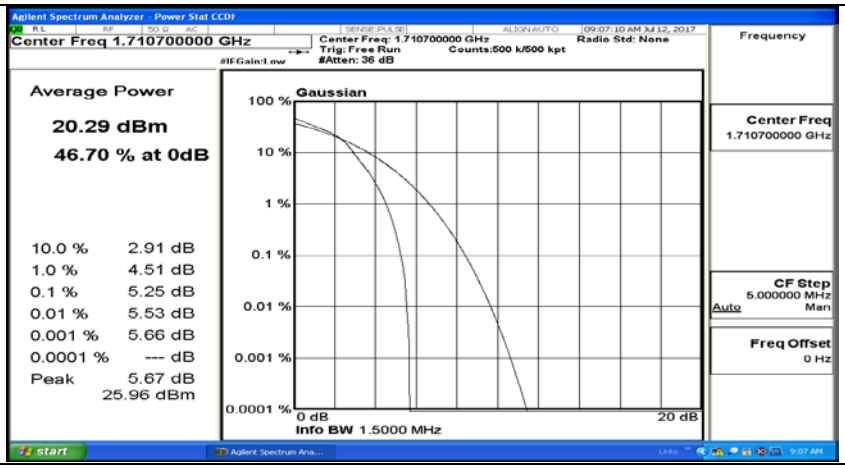
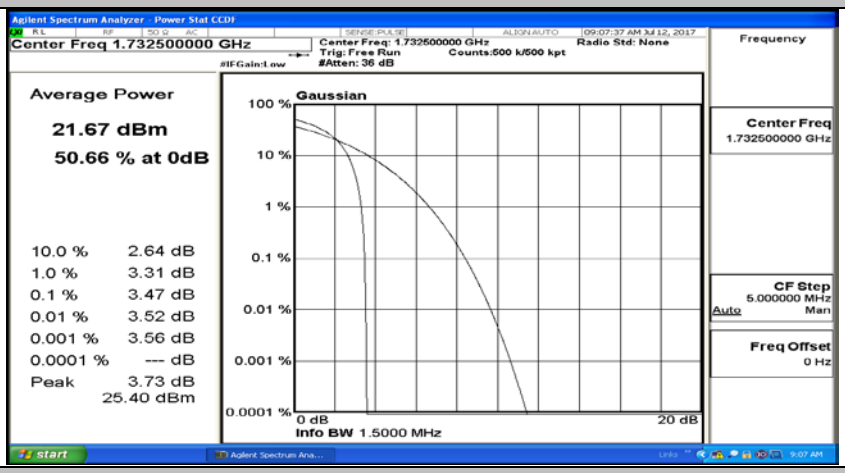


(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#0



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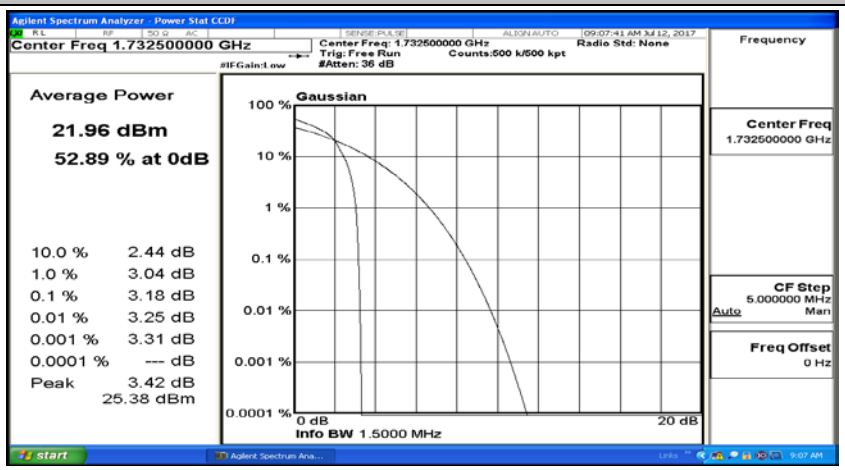

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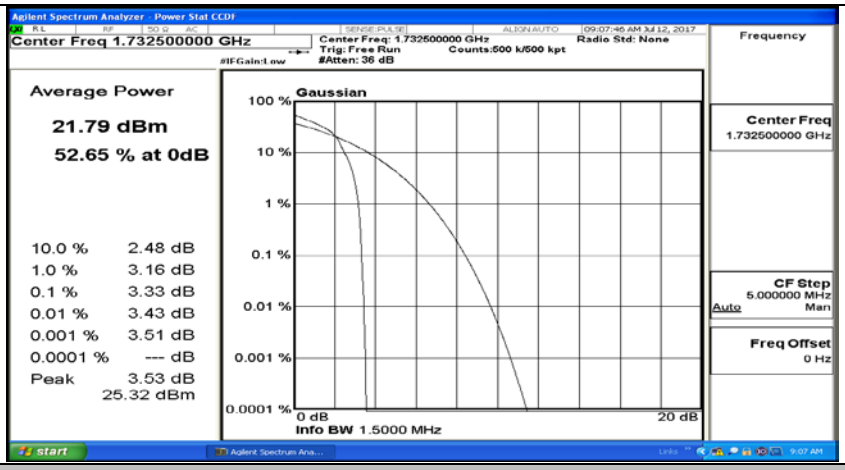
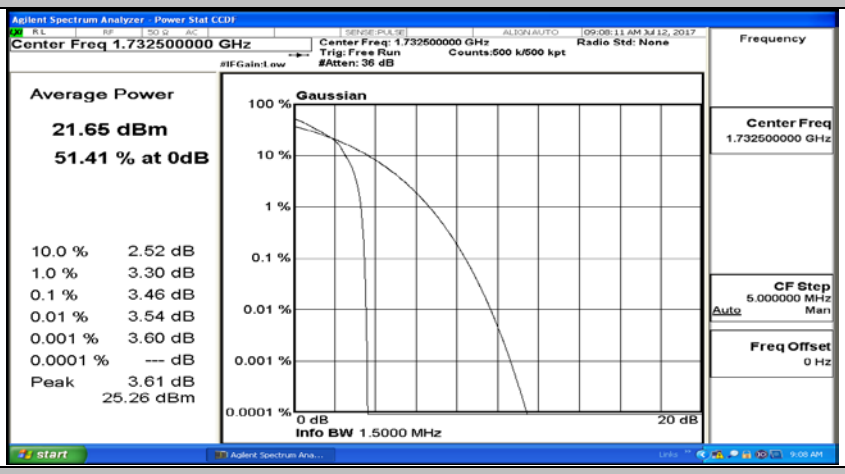
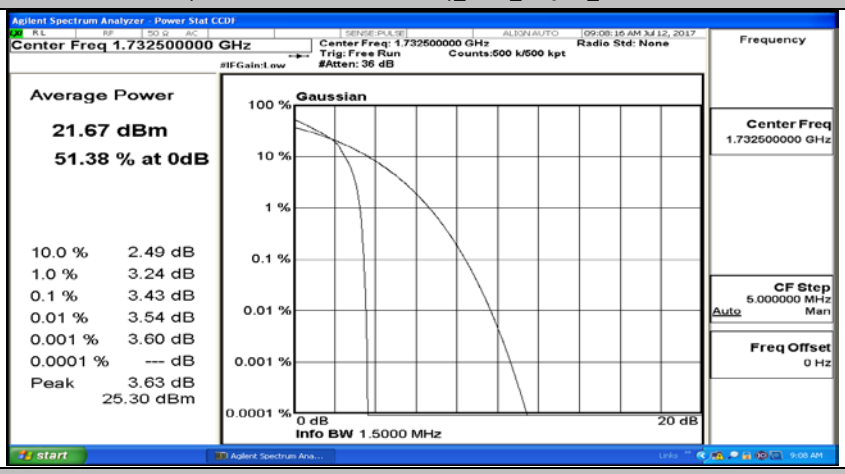


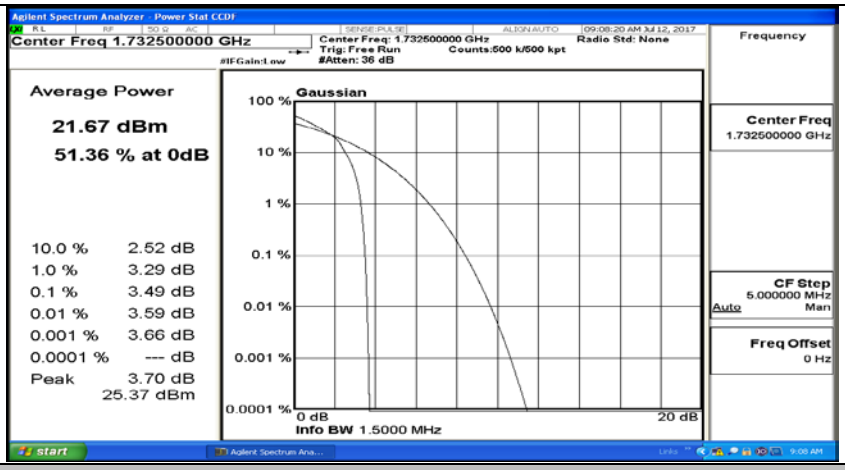
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_3RB#0



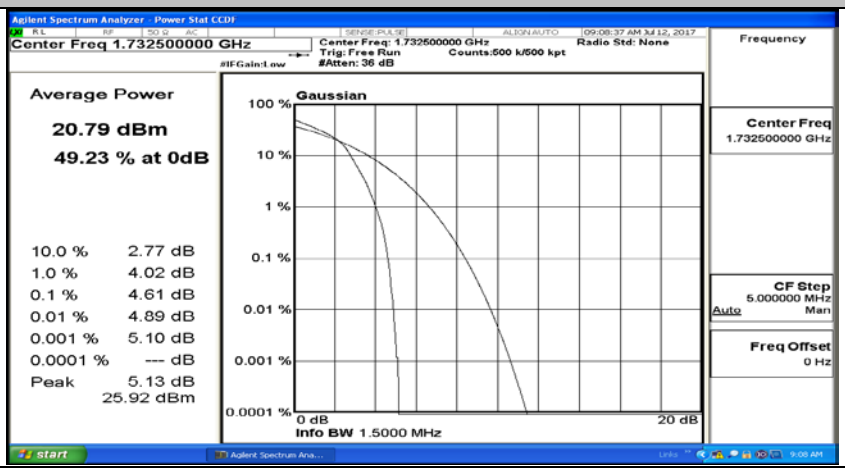
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_3RB#2



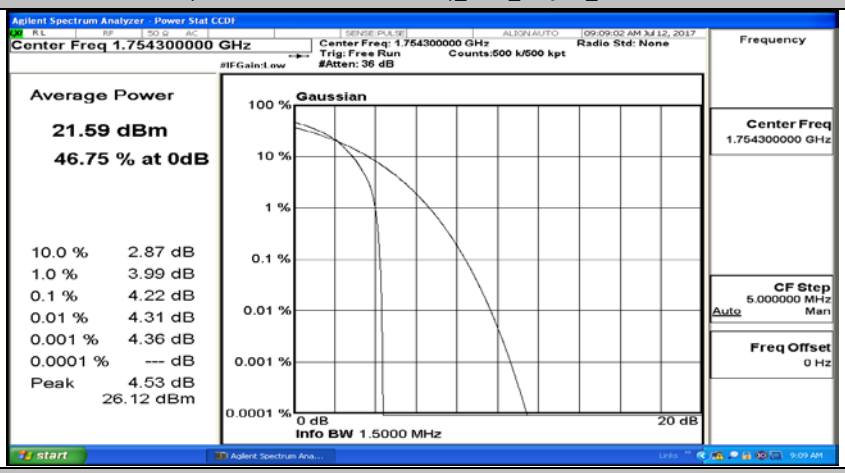
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_3RB#3



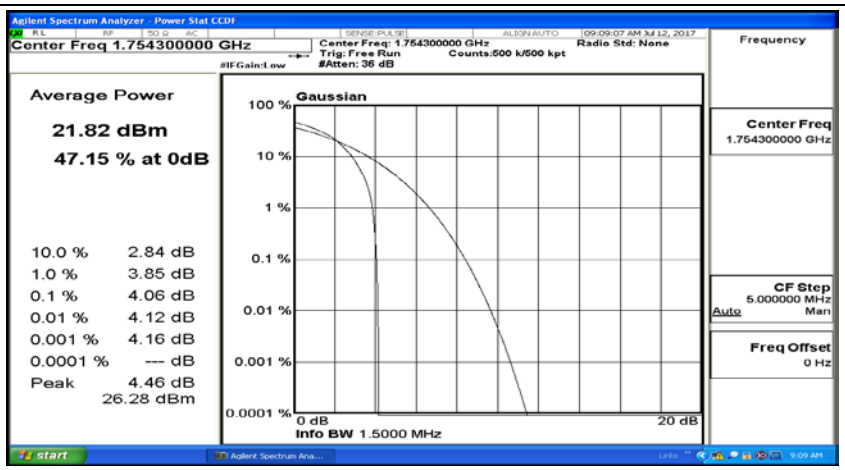
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_6RB#0



(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#0



(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#3



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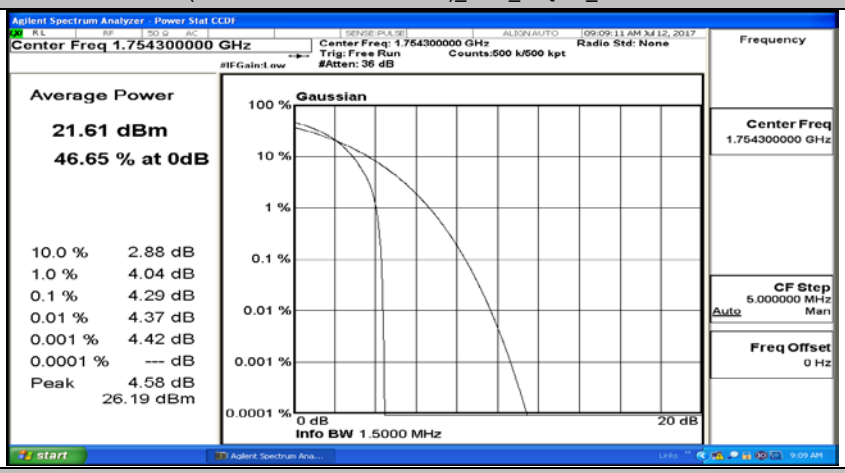
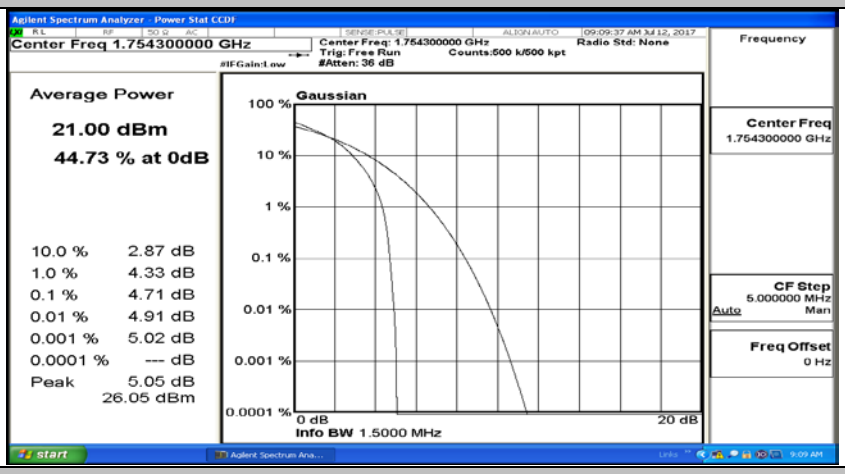
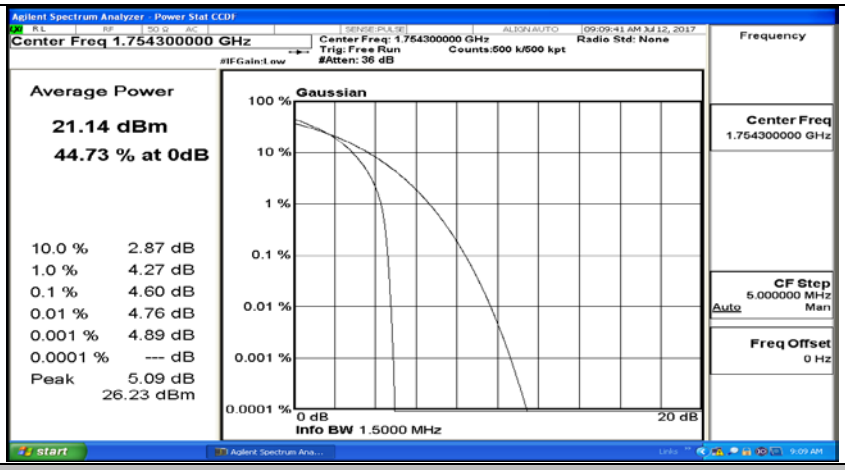


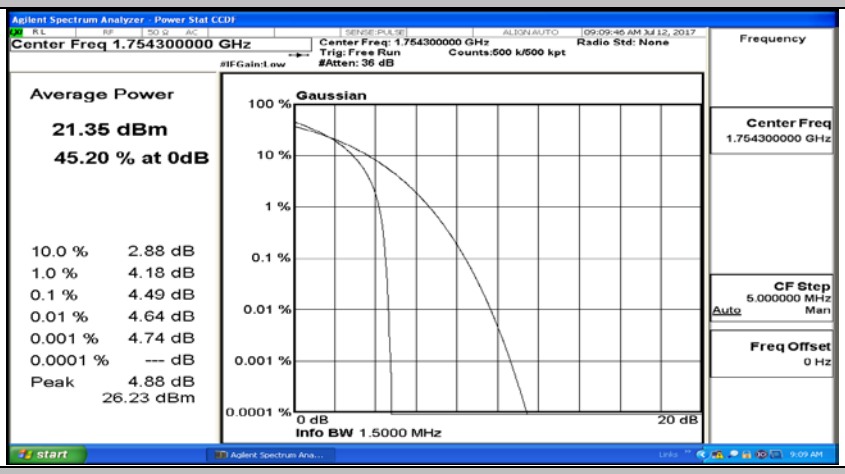
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_3RB#0



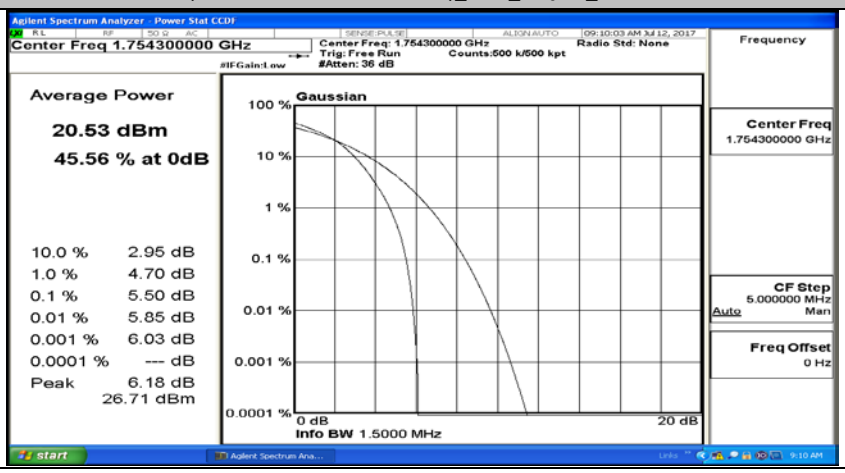
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_3RB#2



(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_3RB#3



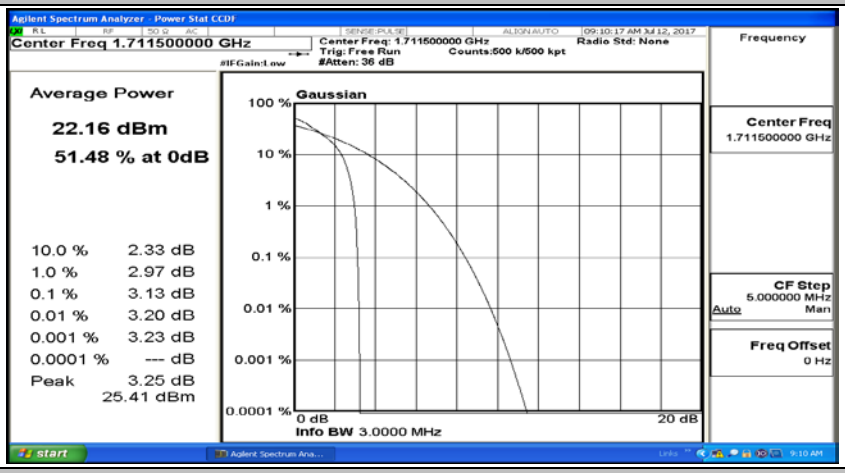
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_6RB#0



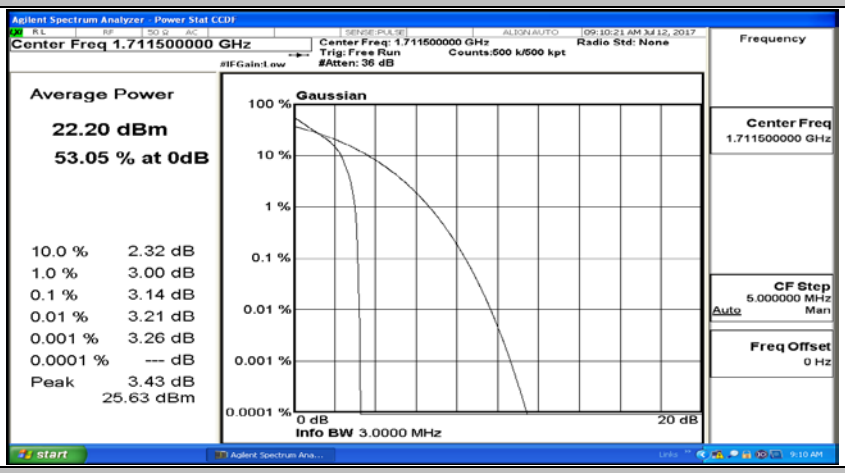
Channel Bandwidth: 3 MHz

(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#0

(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#7



(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#14



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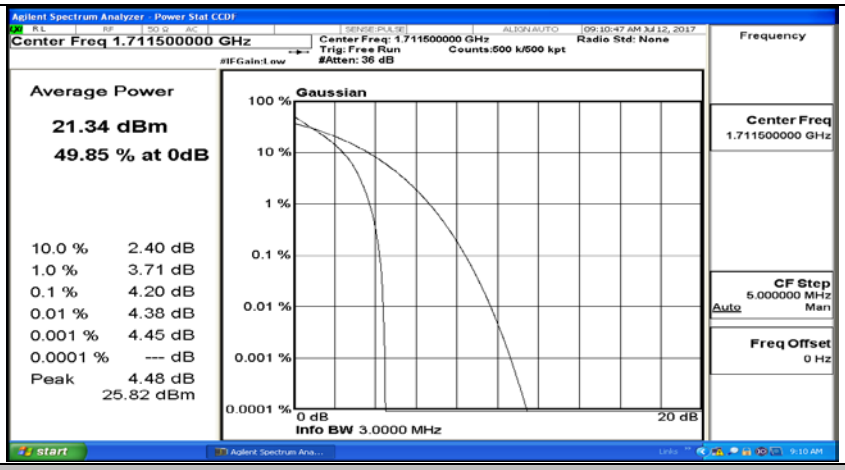
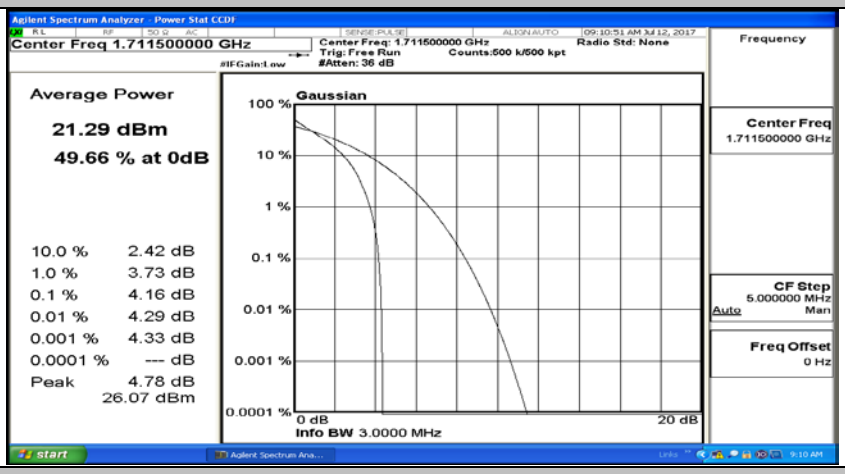
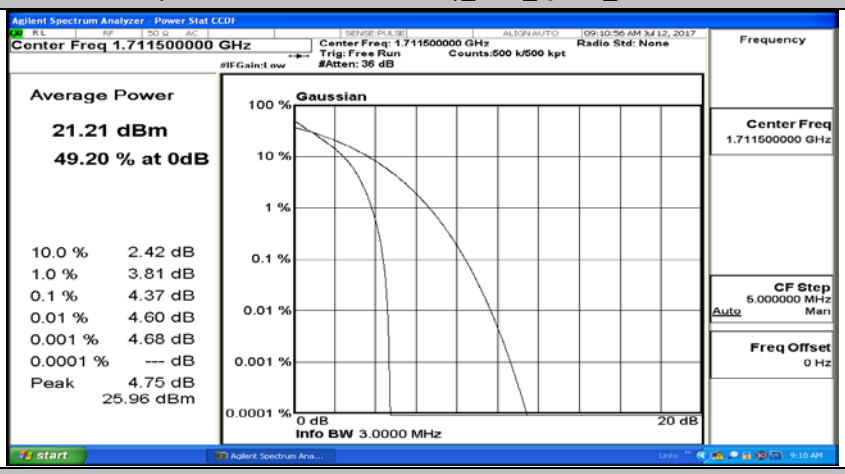


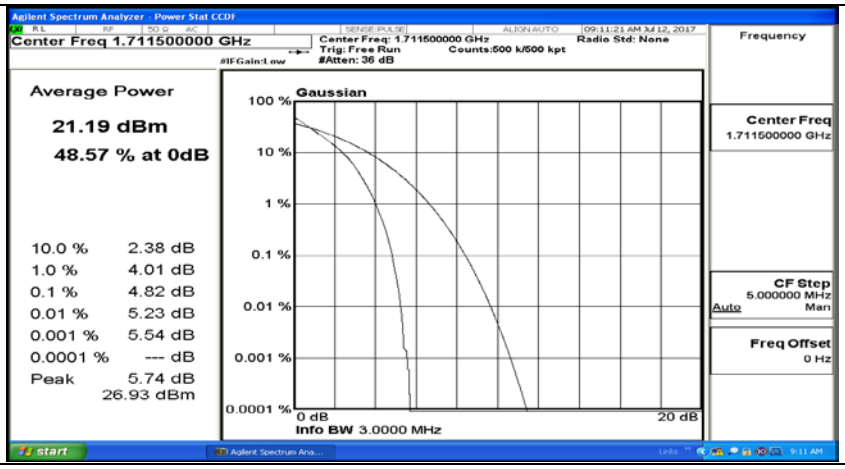
(Channel Bandwidth: 3 MHz)_LCH_QPSK_8RB#4



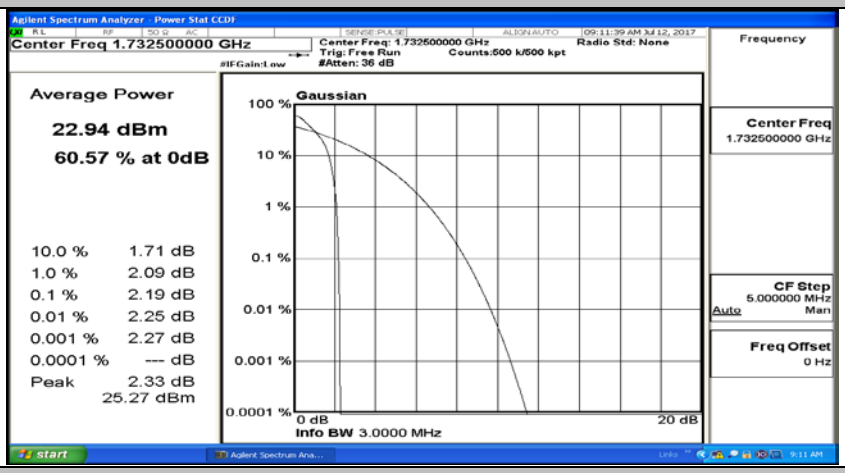
(Channel Bandwidth: 3 MHz)_LCH_QPSK_8RB#7



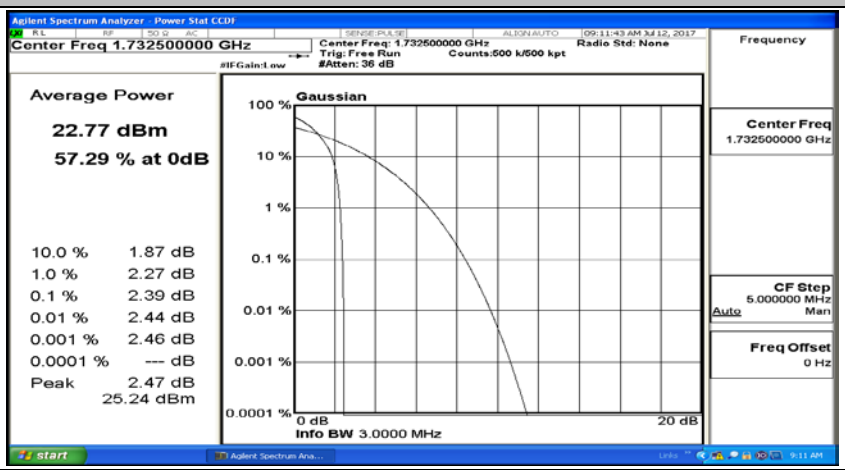
(Channel Bandwidth: 3 MHz)_LCH_QPSK_15RB#0



(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#0



(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#7



(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#14

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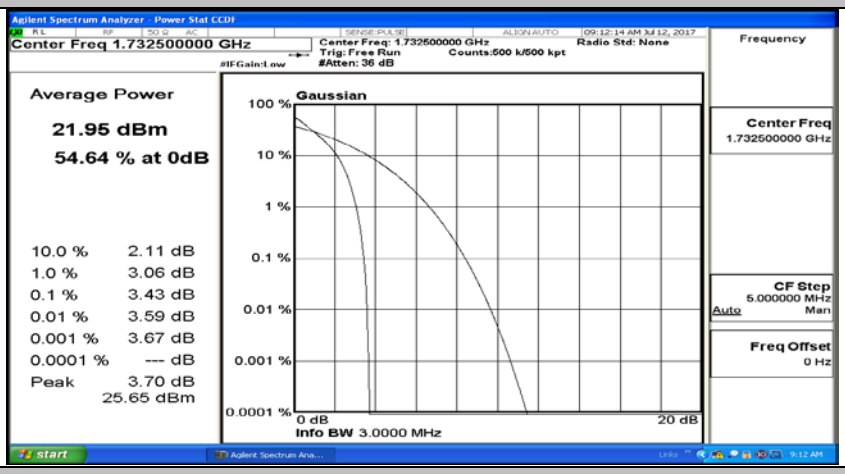

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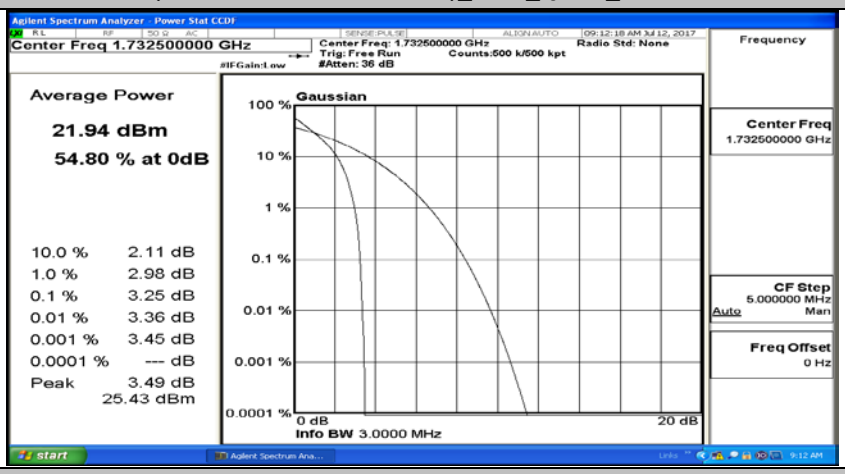

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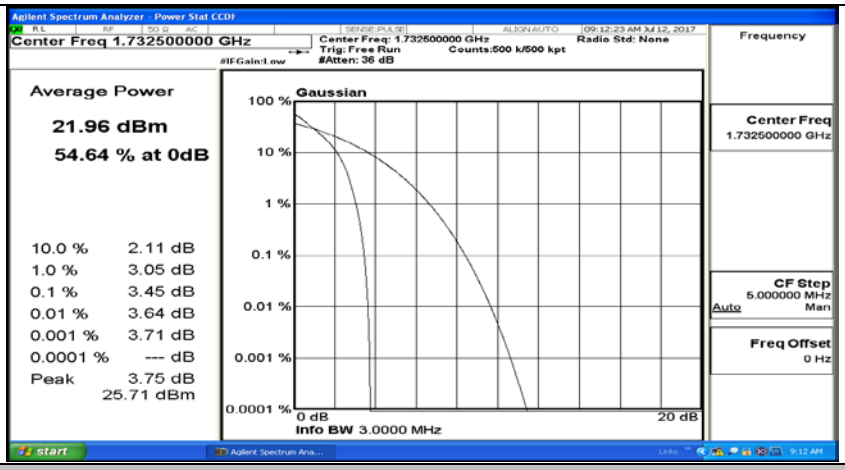
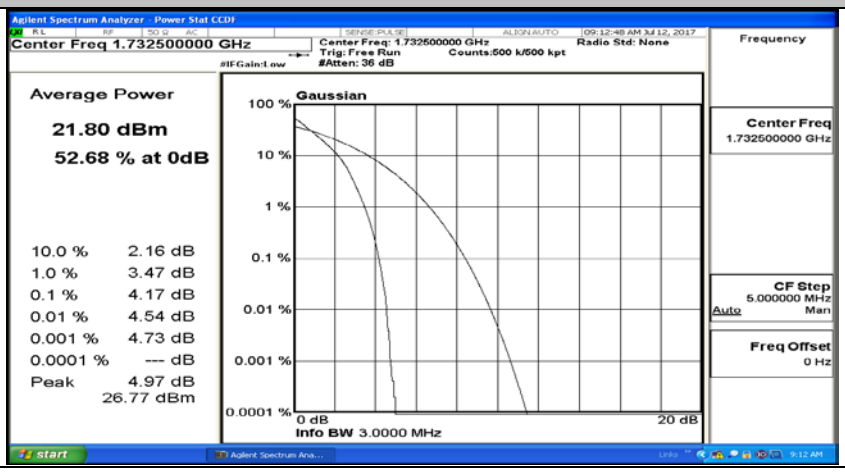
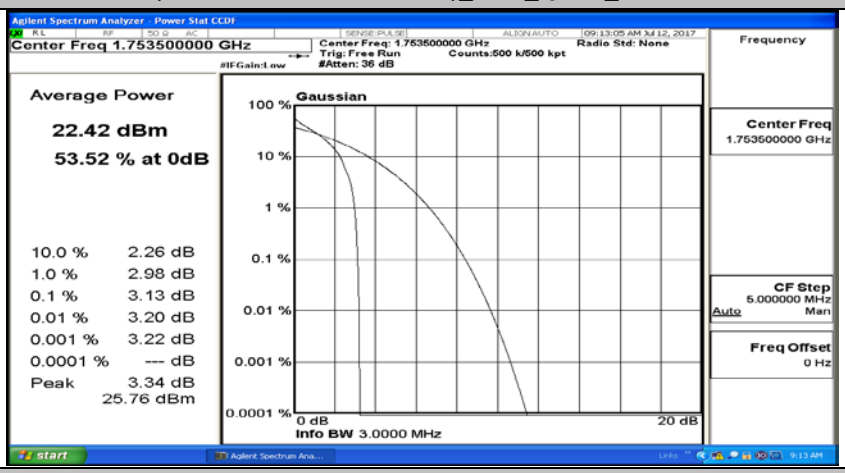


(Channel Bandwidth: 3 MHz)_MCH_QPSK_15RB#0



(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#0



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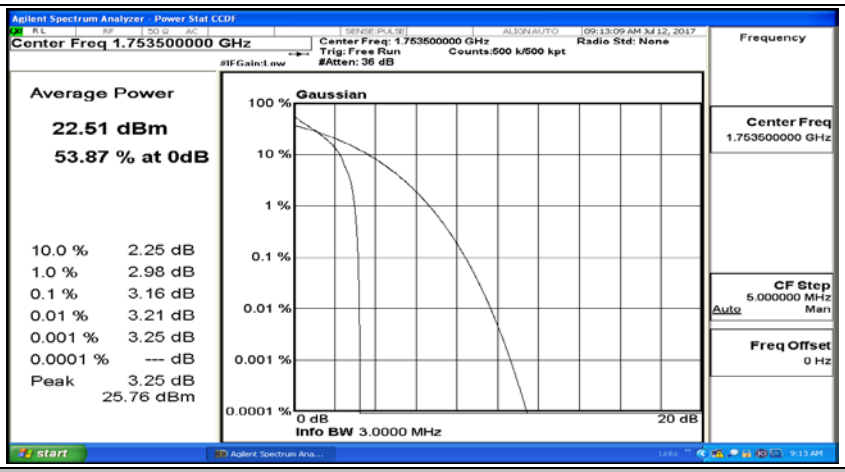
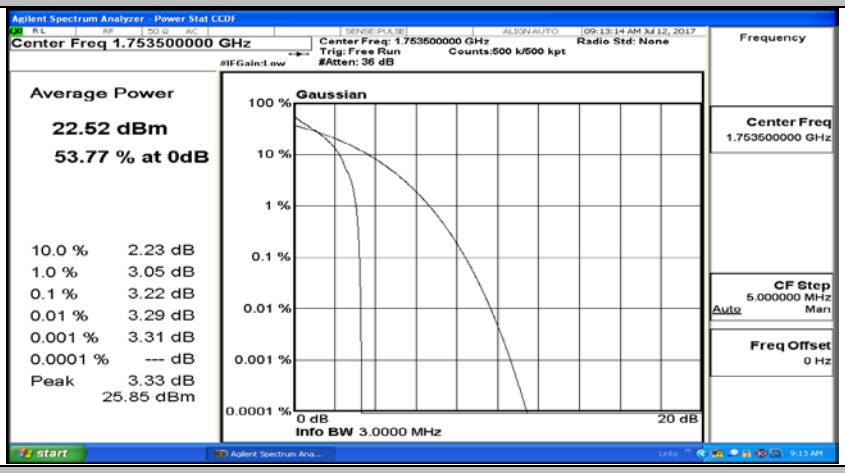


(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#14



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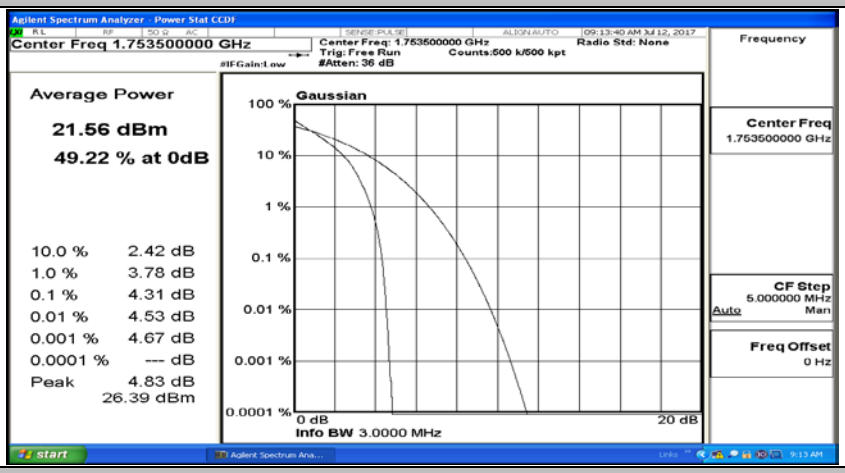
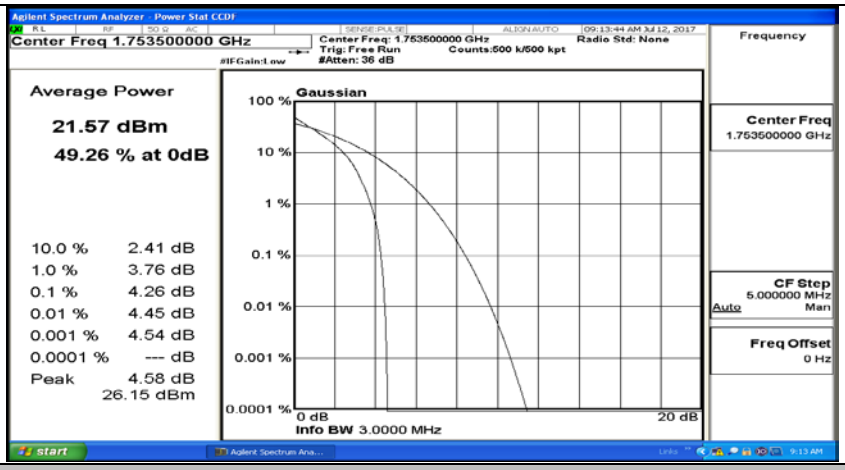
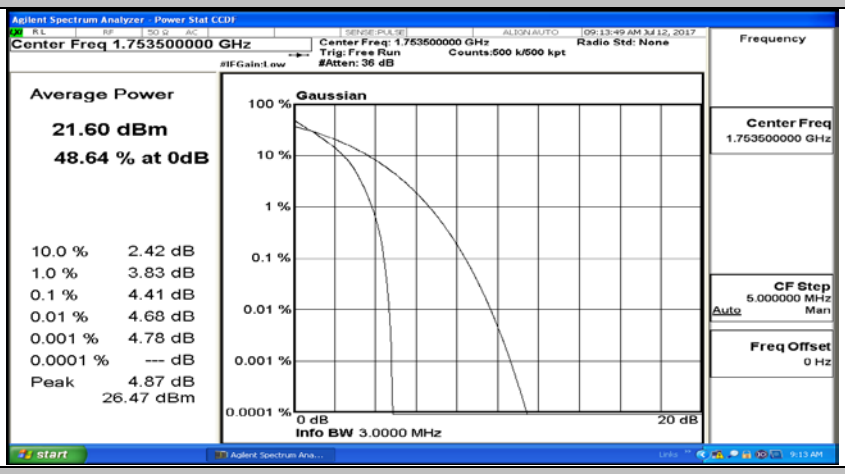


(Channel Bandwidth: 3 MHz)_HCH_QPSK_8RB#4



(Channel Bandwidth: 3 MHz)_HCH_QPSK_8RB#7



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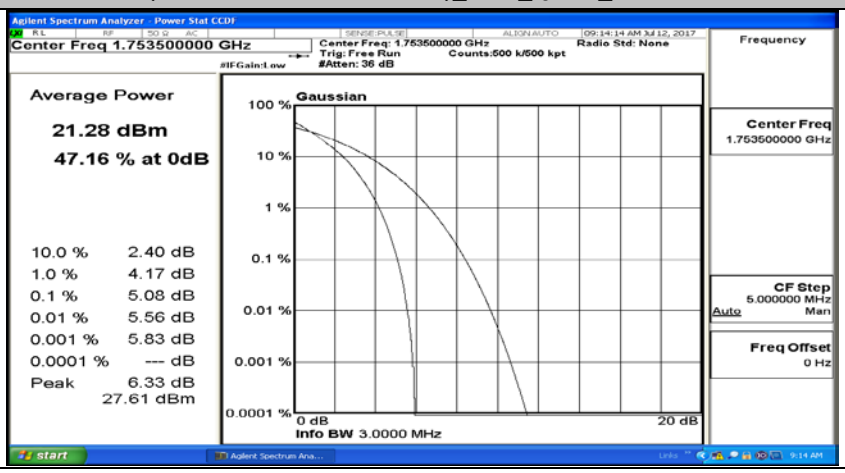
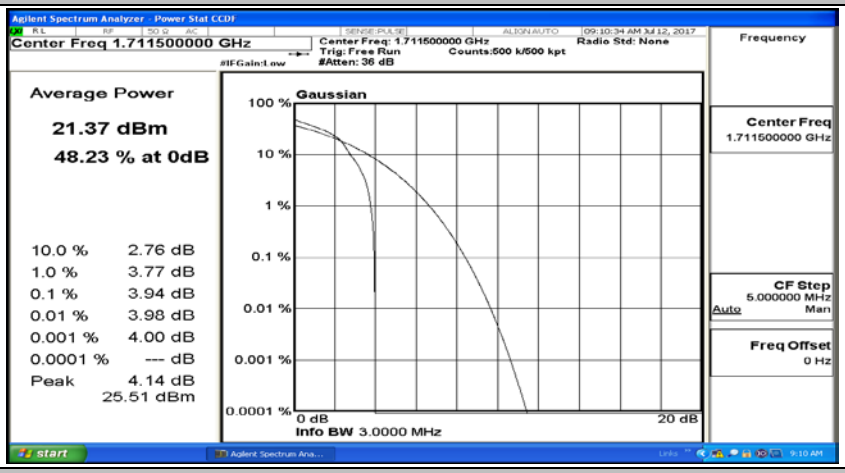


(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#0

(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#7



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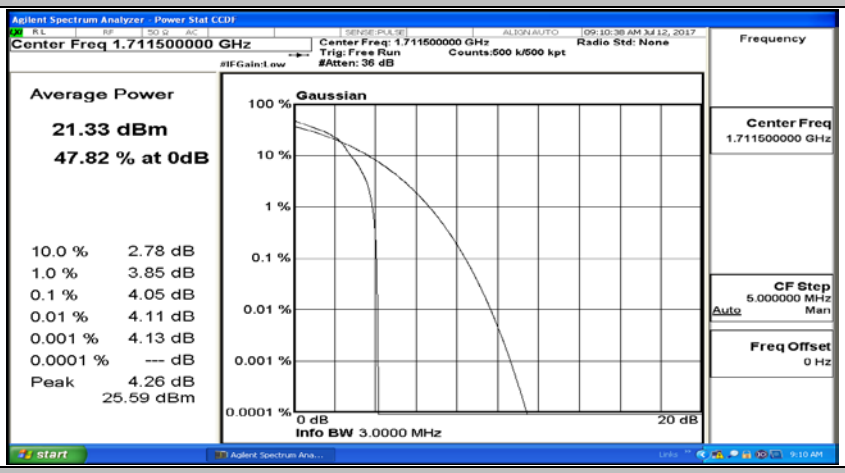
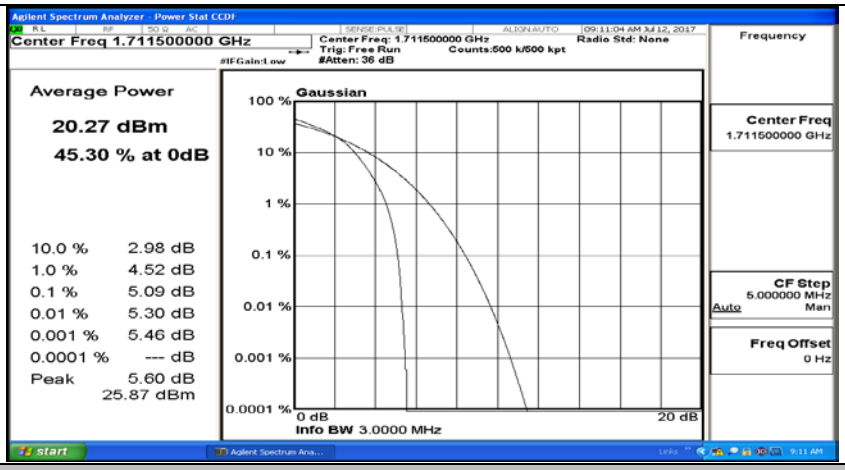
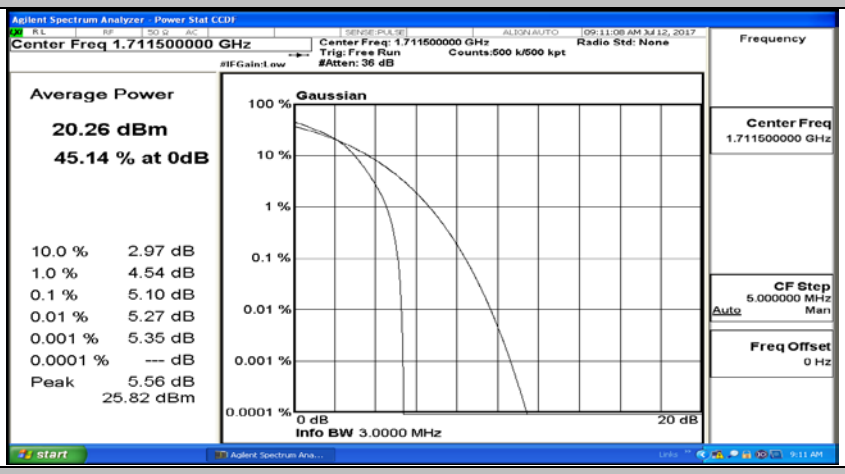


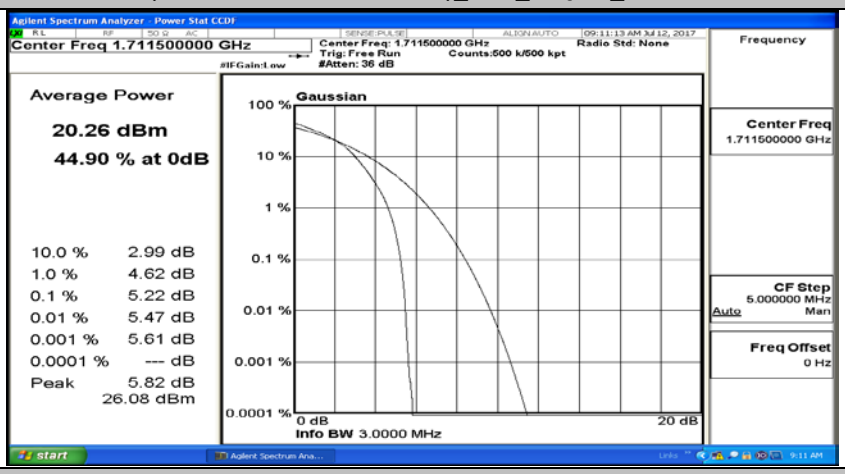
(Channel Bandwidth: 3 MHz)_LCH_16QAM_8RB#0



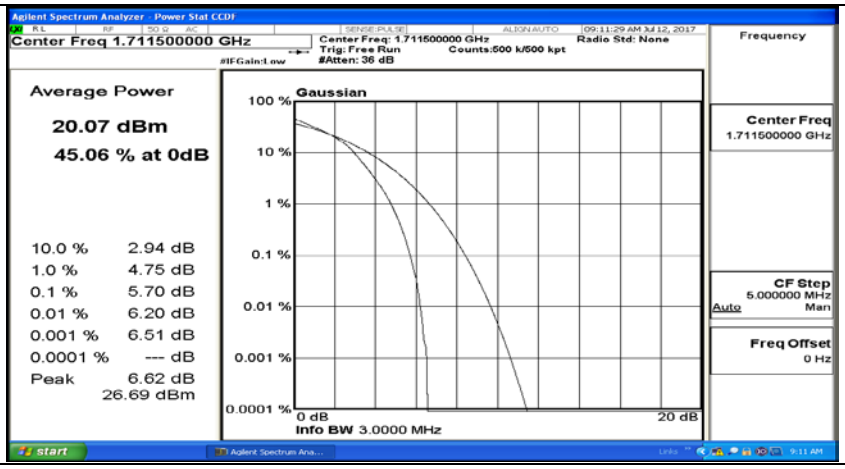
(Channel Bandwidth: 3 MHz)_LCH_16QAM_8RB#4



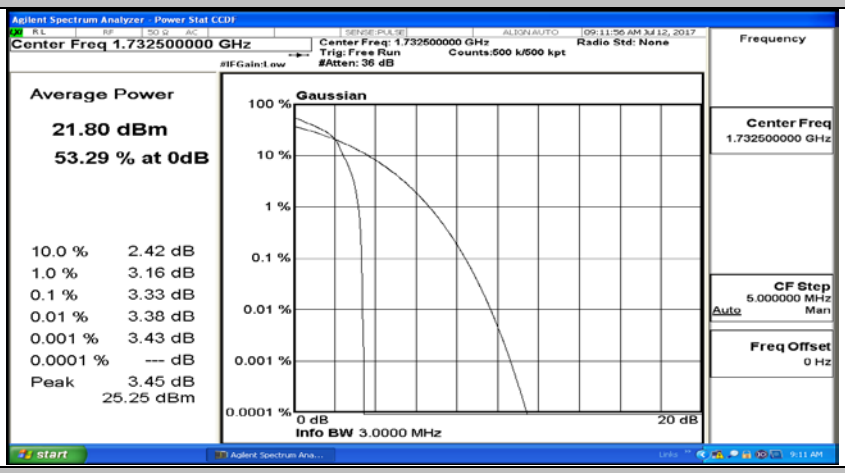
(Channel Bandwidth: 3 MHz)_LCH_16QAM_8RB#7



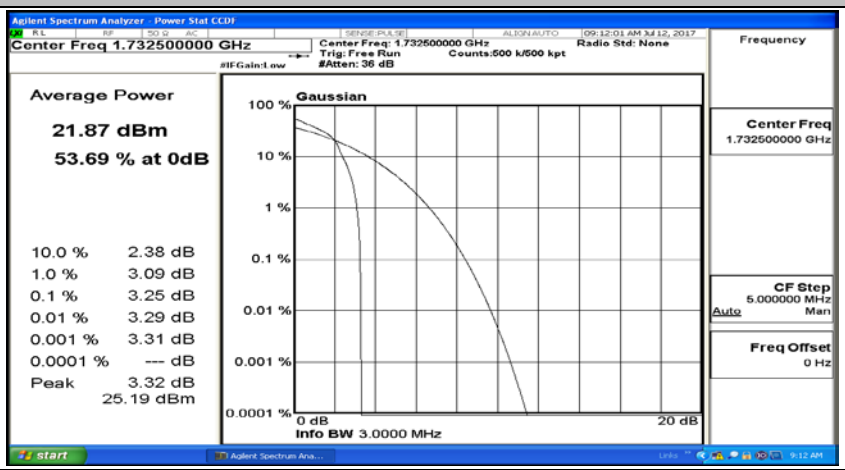
(Channel Bandwidth: 3 MHz)_LCH_16QAM_15RB#0



(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#0



(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#7



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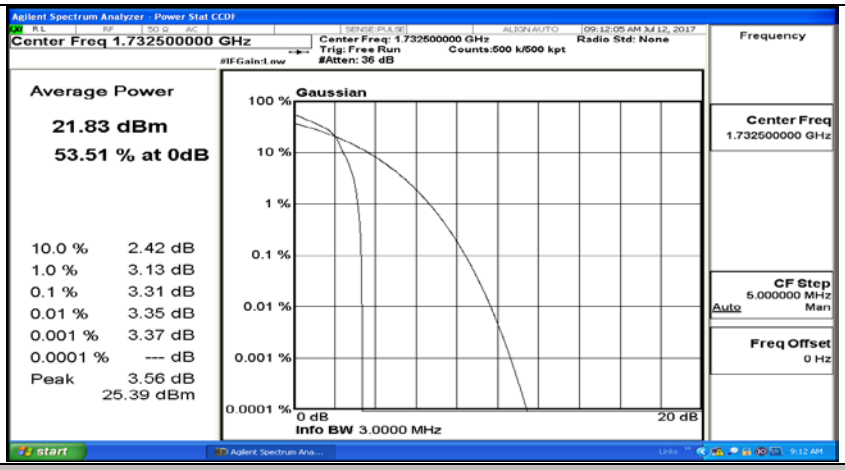
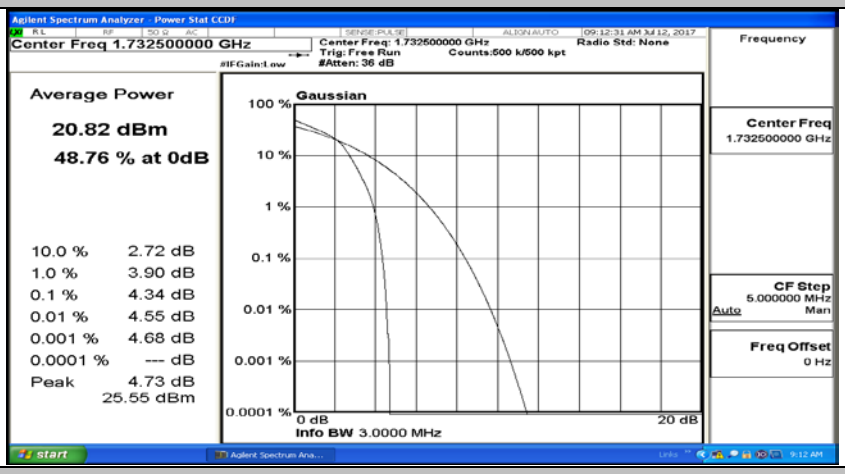
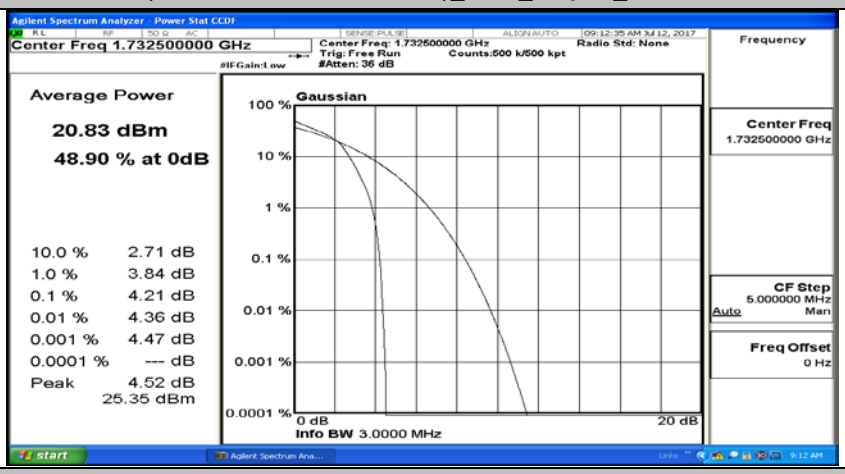


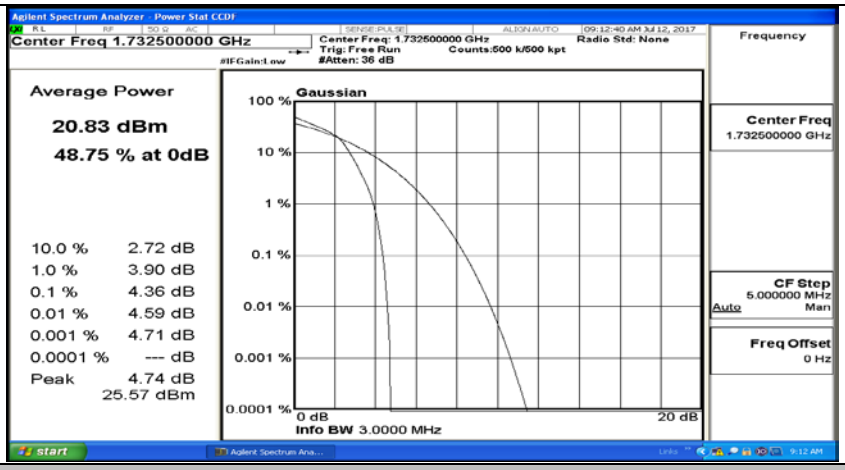
(Channel Bandwidth: 3 MHz)_MCH_16QAM_8RB#0



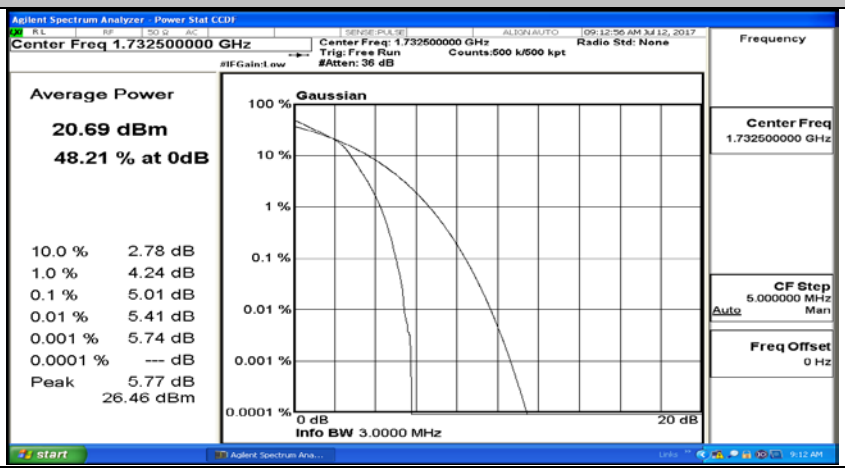
(Channel Bandwidth: 3 MHz)_MCH_16QAM_8RB#4



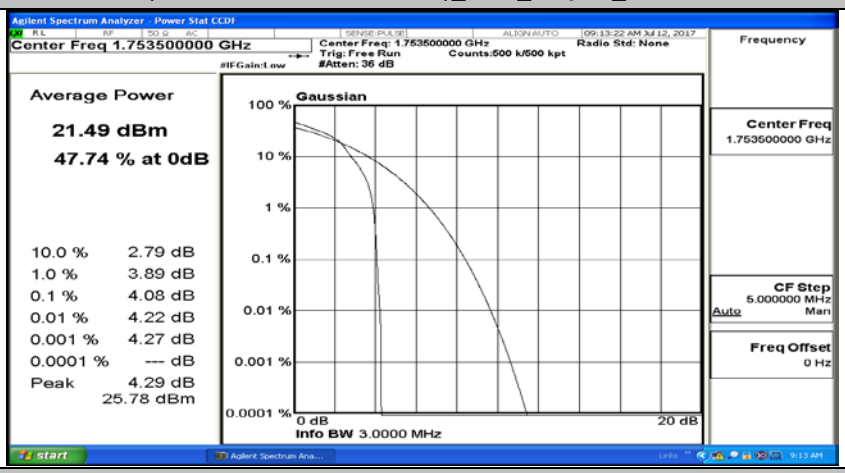
(Channel Bandwidth: 3 MHz)_MCH_16QAM_8RB#7



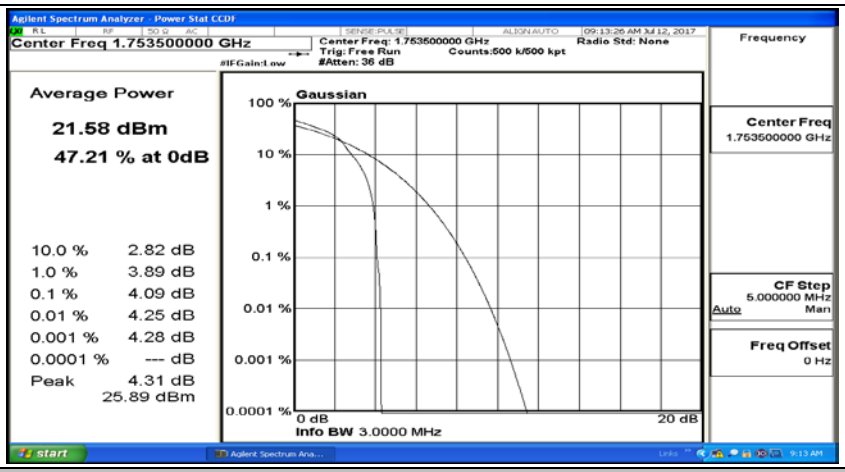
(Channel Bandwidth: 3 MHz)_MCH_16QAM_15RB#0



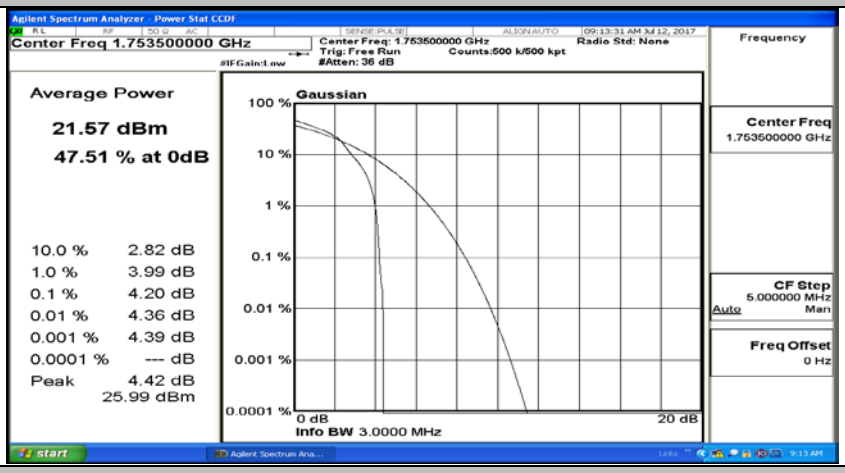
(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#0



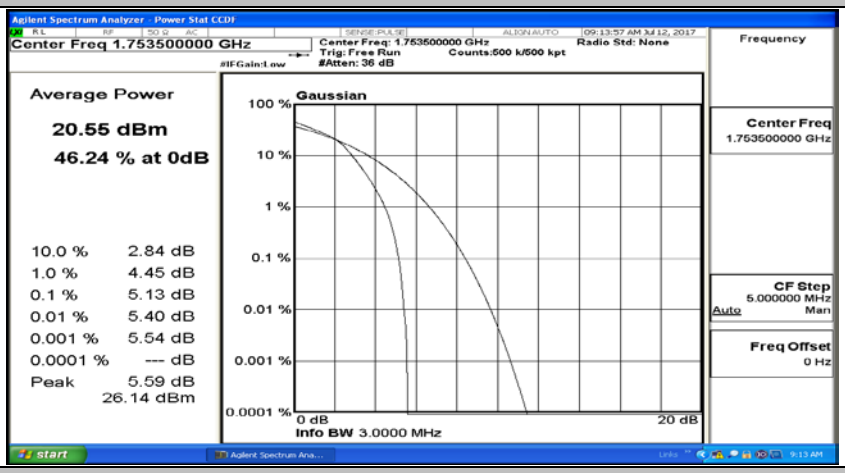
(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#7



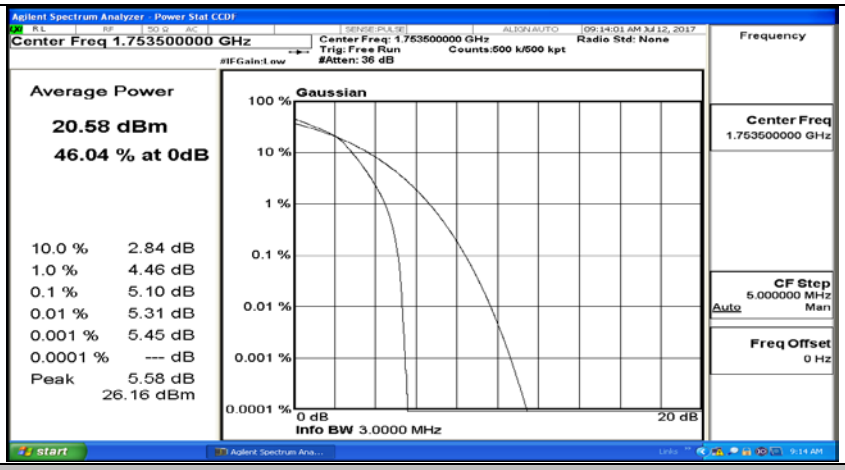
(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#14



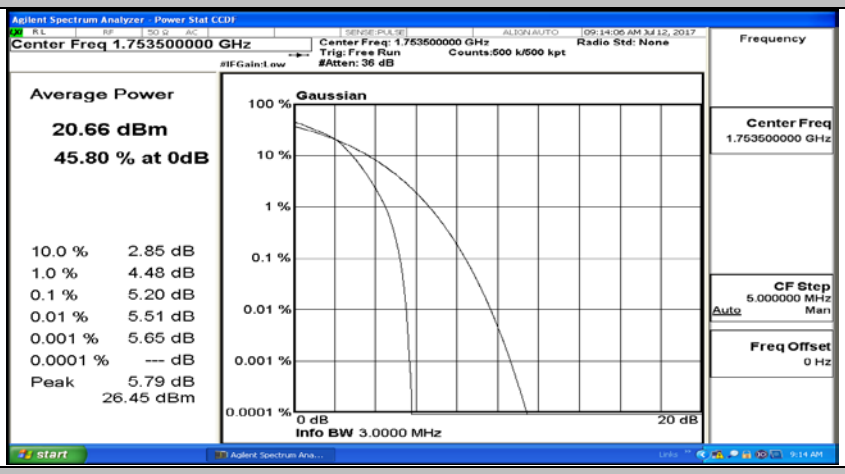
(Channel Bandwidth: 3 MHz)_HCH_16QAM_8RB#0



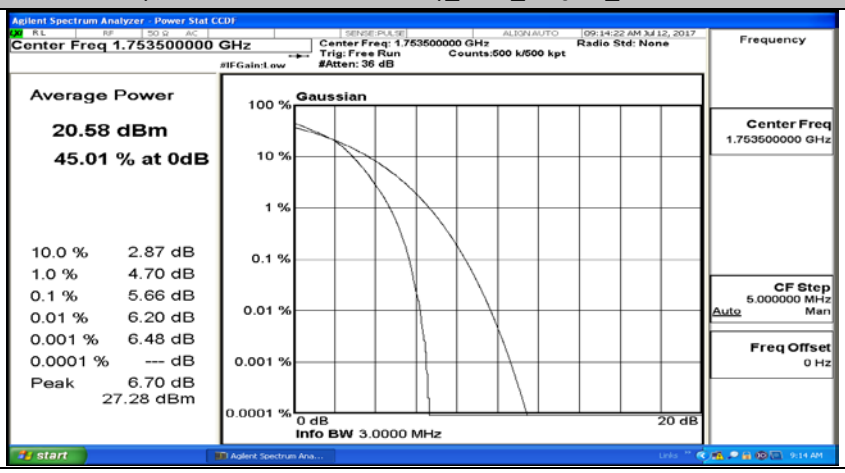
(Channel Bandwidth: 3 MHz)_HCH_16QAM_8RB#4



(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