Appendix H: Test Data for E-UTRA Band 5

Product Name: Smart phone
Test Model: VSP100
FCC ID: 2ASQ6-VSP100
IC: 24870-VSP100

Environmental Conditions

Temperature:	22.8 ° C
Relative Humidity:	52.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Tom.Liu
Supervised by:	Jayden Zhuo

H.1 Conducted Output Power

Test Result

Channel Bandwidth: 1.4 MHz

Channel Bandwidth: 1.4 MHz						
Modulation	Channel	RB Configuration		Average Power [dBm] QPSK	Average Power [dBm] 16QAM	Verdict
		Size	Offset			
QPSK/ 16QAM	LCH	1	0	23.16	22.50	PASS
		1	3	23.54	22.67	PASS
		1	5	23.23	22.53	PASS
		3	0	23.32	22.48	PASS
		3	2	23.49	22.49	PASS
		3	3	23.36	22.46	PASS
		6	0	22.33	21.31	PASS
	MCH	1	0	22.41	22.60	PASS
		1	3	22.77	22.72	PASS
		1	5	22.44	22.47	PASS
		3	0	22.45	22.31	PASS
		3	2	22.54	22.34	PASS
		3	3	22.44	22.26	PASS
		6	0	22.21	21.17	PASS
	HCH	1	0	22.43	22.01	PASS
		1	3	22.96	22.25	PASS
		1	5	22.75	22.02	PASS
		3	0	22.61	21.95	PASS

		3	2	22.85	21.94	PASS
		3	3	22.79	21.96	PASS
		6	0	22.32	21.23	PASS

Channel Bandwidth: 3 MHz

Channel Bandwidth: 3 MHz						
Modulation	Channel	RB Configuration		Average Power [dBm] QPSK	Average Power [dBm] 16QAM	Verdict
		Size	Offset			
QPSK/ 16QAM	LCH	1	0	23.09	22.61	PASS
		1	7	23.60	22.90	PASS
		1	14	23.39	22.65	PASS
		8	0	22.34	21.38	PASS
		8	4	22.37	21.48	PASS
		8	7	22.39	21.46	PASS
		15	0	22.33	21.32	PASS
	MCH	1	0	22.31	22.45	PASS
		1	7	22.81	22.95	PASS
		1	14	22.58	22.33	PASS
		8	0	22.18	21.23	PASS
		8	4	22.22	21.33	PASS
		8	7	22.17	21.20	PASS
		15	0	22.20	21.20	PASS
	HCH	1	0	22.13	22.17	PASS
		1	7	22.75	22.38	PASS
		1	14	22.66	22.21	PASS
		8	0	22.78	21.81	PASS
		8	4	22.88	21.87	PASS
		8	7	22.84	21.81	PASS
		15	0	22.78	21.79	PASS

Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz						
Modulation	Channel	RB Configuration		Average Power [dBm] QPSK	Average Power [dBm] 16QAM	Verdict
		Size	Offset			
QPSK/ 16QAM	LCH	1	0	23.22	22.54	PASS
		1	12	23.58	22.93	PASS
		1	24	23.32	22.66	PASS
		12	0	22.29	21.42	PASS
		12	6	22.40	21.60	PASS
		12	13	22.37	21.48	PASS
		25	0	22.39	21.41	PASS
	MCH	1	0	22.50	22.62	PASS
		1	12	22.61	22.79	PASS
		1	24	23.13	22.32	PASS
		12	0	22.16	21.37	PASS
		12	6	22.19	21.39	PASS
		12	13	22.22	21.41	PASS
		25	0	22.27	21.25	PASS
	HCH	1	0	22.72	21.72	PASS
		1	12	22.42	22.00	PASS
		1	24	23.00	21.79	PASS
		12	0	22.83	21.89	PASS
		12	6	22.78	21.88	PASS
		12	13	22.79	21.88	PASS
		25	0	22.82	21.89	PASS

Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		Average Power [dBm] QPSK	Average Power [dBm] 16QAM	Verdict
		Size	Offset			
QPSK/ 16QAM	LCH	1	0	23.35	22.62	PASS
		1	24	23.60	22.85	PASS
		1	49	22.57	22.61	PASS
		25	0	22.47	21.48	PASS
		25	12	22.47	21.50	PASS
		25	25	22.26	21.26	PASS
		50	0	22.36	21.39	PASS
	MCH	1	0	23.14	22.71	PASS
		1	24	22.64	22.63	PASS
		1	49	23.50	22.13	PASS
		25	0	22.42	21.46	PASS
		25	12	22.23	21.26	PASS
		25	25	22.49	21.44	PASS
		50	0	22.40	21.43	PASS
	HCH	1	0	22.97	22.32	PASS
		1	24	22.80	22.30	PASS
		1	49	22.94	22.21	PASS
		25	0	22.95	21.97	PASS
		25	12	22.87	21.94	PASS
		25	25	22.73	21.76	PASS
		50	0	22.82	21.89	PASS

H.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	5.01	<13	PASS
		1	3	5.02	<13	PASS
		1	5	5.16	<13	PASS
		3	0	5.15	<13	PASS
		3	2	5.1	<13	PASS
		3	3	5.13	<13	PASS
		6	0	5.55	<13	PASS
	MCH	1	0	5.2	<13	PASS
		1	3	5.03	<13	PASS
		1	5	5.19	<13	PASS
		3	0	5.45	<13	PASS
		3	2	5.37	<13	PASS
		3	3	5.39	<13	PASS
		6	0	5.6	<13	PASS
	HCH	1	0	5.01	<13	PASS
		1	3	4.71	<13	PASS
		1	5	4.75	<13	PASS
		3	0	5.05	<13	PASS
		3	2	4.93	<13	PASS
		3	3	4.93	<13	PASS
		6	0	5.4	<13	PASS
16QAM	LCH	1	0	6	<13	PASS
		1	3	5.93	<13	PASS
		1	5	6.03	<13	PASS
		3	0	6.07	<13	PASS
		3	2	6.13	<13	PASS
		3	3	6.08	<13	PASS
		6	0	6.46	<13	PASS
	MCH	1	0	6.21	<13	PASS
		1	3	6.12	<13	PASS
		1	5	6.14	<13	PASS
		3	0	6.34	<13	PASS
		3	2	6.26	<13	PASS

		3	3	6.28	<13	PASS
		6	0	6.53	<13	PASS
	HCH	1	0	6	<13	PASS
		1	3	5.71	<13	PASS
		1	5	5.71	<13	PASS
		3	0	5.84	<13	PASS
		3	2	5.71	<13	PASS
		3	3	5.67	<13	PASS
		6	0	6.33	<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	4.97	<13	PASS
		1	7	4.83	<13	PASS
		1	14	4.7	<13	PASS
		8	0	5.44	<13	PASS
		8	4	5.41	<13	PASS
		8	7	5.43	<13	PASS
		15	0	5.51	<13	PASS
	MCH	1	0	5.42	<13	PASS
		1	7	5.28	<13	PASS
		1	14	5.31	<13	PASS
		8	0	5.66	<13	PASS
		8	4	5.64	<13	PASS
		8	7	5.65	<13	PASS
		15	0	5.64	<13	PASS
	HCH	1	0	4.93	<13	PASS
		1	7	4.76	<13	PASS
		1	14	4.44	<13	PASS
		8	0	5.54	<13	PASS
		8	4	5.58	<13	PASS
		8	7	5.47	<13	PASS
		15	0	5.6	<13	PASS
16QAM	LCH	1	0	5.88	<13	PASS
		1	7	5.88	<13	PASS
		1	14	5.58	<13	PASS
		8	0	6.15	<13	PASS
		8	4	6.1	<13	PASS
		8	7	6.08	<13	PASS
		15	0	6.39	<13	PASS
	MCH	1	0	6.19	<13	PASS
		1	7	6.06	<13	PASS
		1	14	6.06	<13	PASS
		8	0	6.36	<13	PASS
		8	4	6.29	<13	PASS
		8	7	6.31	<13	PASS
		15	0	6.58	<13	PASS
	HCH	1	0	5.78	<13	PASS
		1	7	5.74	<13	PASS

		1	14	5.39	<13	PASS
		8	0	6.24	<13	PASS
		8	4	6.13	<13	PASS
		8	7	6.17	<13	PASS
		15	0	6.31	<13	PASS

Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio	Limit	Verdict
		Size	Offset	[dB]	[dB]	
QPSK	LCH	1	0	4.88	<13	PASS
		1	12	4.56	<13	PASS
		1	24	4.5	<13	PASS
		12	0	5.46	<13	PASS
		12	6	5.33	<13	PASS
		12	13	5.31	<13	PASS
		25	0	5.45	<13	PASS
	MCH	1	0	5.13	<13	PASS
		1	12	5.09	<13	PASS
		1	24	4.8	<13	PASS
		12	0	5.65	<13	PASS
		12	6	5.6	<13	PASS
		12	13	5.58	<13	PASS
		25	0	5.72	<13	PASS
	HCH	1	0	4.86	<13	PASS
		1	12	5.18	<13	PASS
		1	24	4.73	<13	PASS
		12	0	5.43	<13	PASS
		12	6	5.45	<13	PASS
		12	13	5.51	<13	PASS
		25	0	5.59	<13	PASS
16QAM	LCH	1	0	5.81	<13	PASS
		1	12	5.39	<13	PASS
		1	24	5.41	<13	PASS
		12	0	6.22	<13	PASS
		12	6	6.14	<13	PASS
		12	13	6.09	<13	PASS
		25	0	6.26	<13	PASS
	MCH	1	0	6.02	<13	PASS
		1	12	5.94	<13	PASS
		1	24	5.88	<13	PASS
		12	0	6.44	<13	PASS
		12	6	6.45	<13	PASS
		12	13	6.37	<13	PASS
		25	0	6.52	<13	PASS
	HCH	1	0	5.51	<13	PASS
		1	12	5.72	<13	PASS

		1	24	5.47	<13	PASS
		12	0	6.4	<13	PASS
		12	6	6.43	<13	PASS
		12	13	6.39	<13	PASS
		25	0	6.38	<13	PASS

Channel Bandwidth: 10 MHz

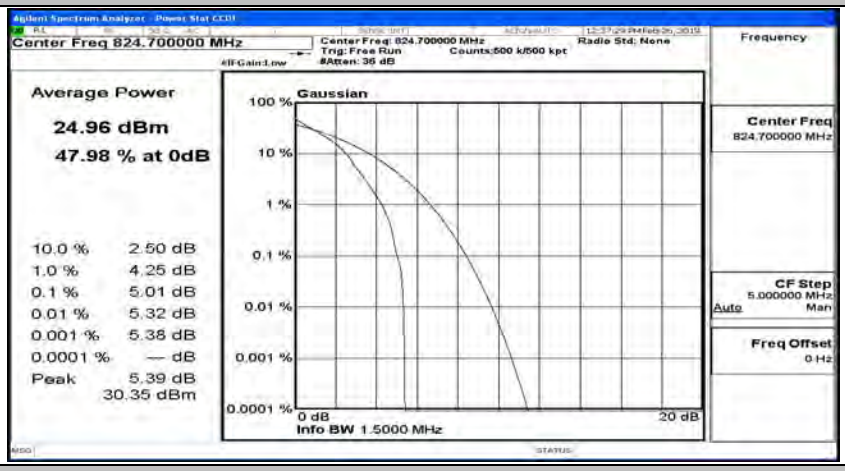
Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio	Limit	Verdict
		Size	Offset	[dB]	[dB]	
QPSK	LCH	1	0	5.04	<13	PASS
		1	24	4.54	<13	PASS
		1	49	5.51	<13	PASS
		25	0	5.4	<13	PASS
		25	12	5.32	<13	PASS
		25	25	5.57	<13	PASS
		50	0	5.44	<13	PASS
	MCH	1	0	4.99	<13	PASS
		1	24	5.39	<13	PASS
		1	49	4.67	<13	PASS
		25	0	5.7	<13	PASS
		25	12	5.66	<13	PASS
		25	25	5.47	<13	PASS
		50	0	5.75	<13	PASS
	HCH	1	0	4.67	<13	PASS
		1	24	4.47	<13	PASS
		1	49	4.64	<13	PASS
		25	0	5.27	<13	PASS
		25	12	5.34	<13	PASS
		25	25	5.59	<13	PASS
		50	0	5.52	<13	PASS
16QAM	LCH	1	0	5.95	<13	PASS
		1	24	5.45	<13	PASS
		1	49	6.16	<13	PASS
		25	0	6.24	<13	PASS
		25	12	6.09	<13	PASS
		25	25	6.36	<13	PASS
		50	0	6.19	<13	PASS
	MCH	1	0	5.94	<13	PASS
		1	24	6.16	<13	PASS
		1	49	5.66	<13	PASS
		25	0	6.47	<13	PASS
		25	12	6.44	<13	PASS
		25	25	6.28	<13	PASS
		50	0	6.42	<13	PASS
	HCH	1	0	5.69	<13	PASS
		1	24	5.51	<13	PASS

		1	49	5.66	<13	PASS
		25	0	6.11	<13	PASS
		25	12	6.1	<13	PASS
		25	25	6.4	<13	PASS
		50	0	6.24	<13	PASS

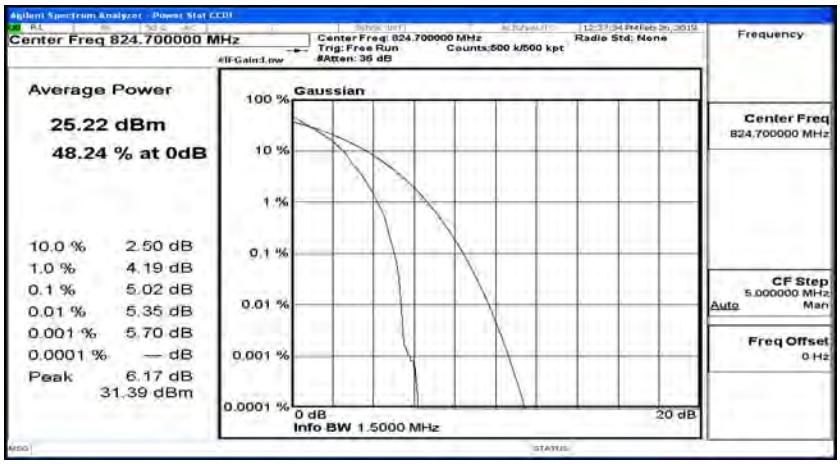
Test Graphs

Channel Bandwidth: 1.4 MHz

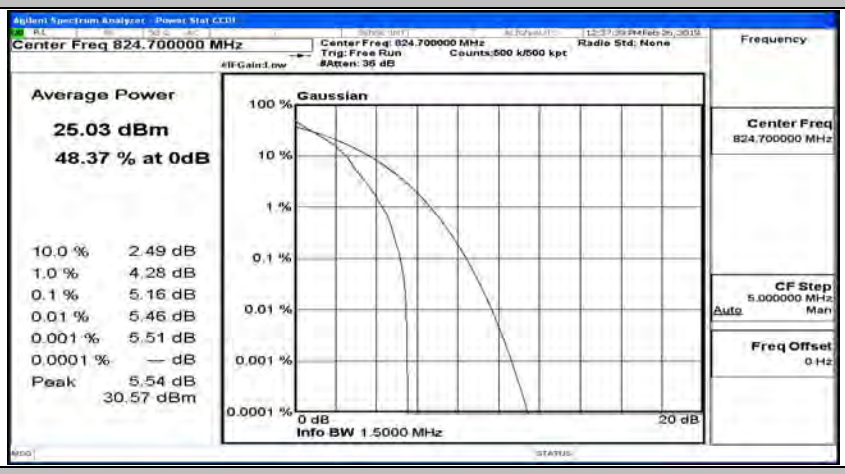
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#0



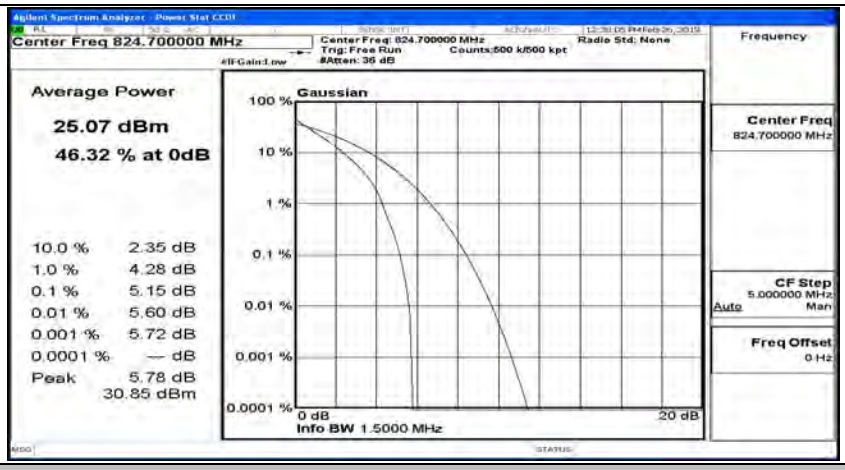
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#3



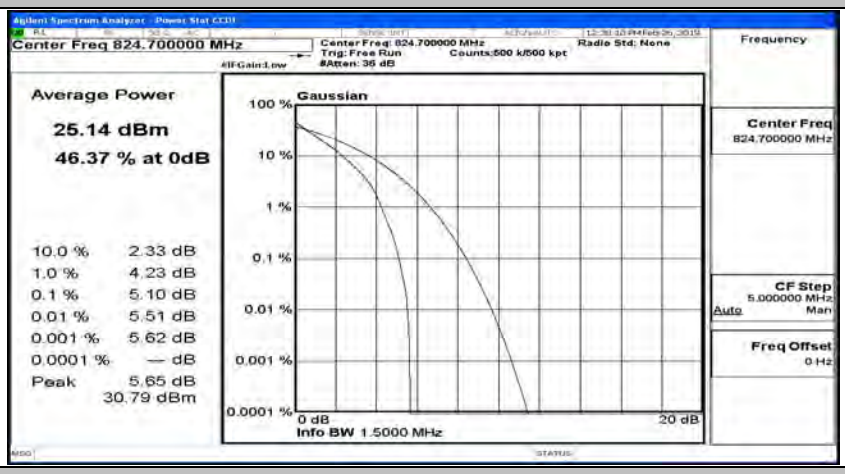
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#5



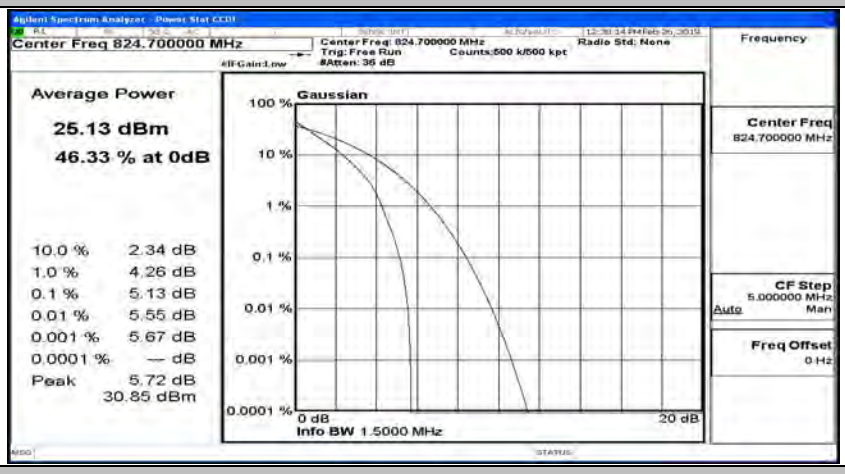
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_3RB#0



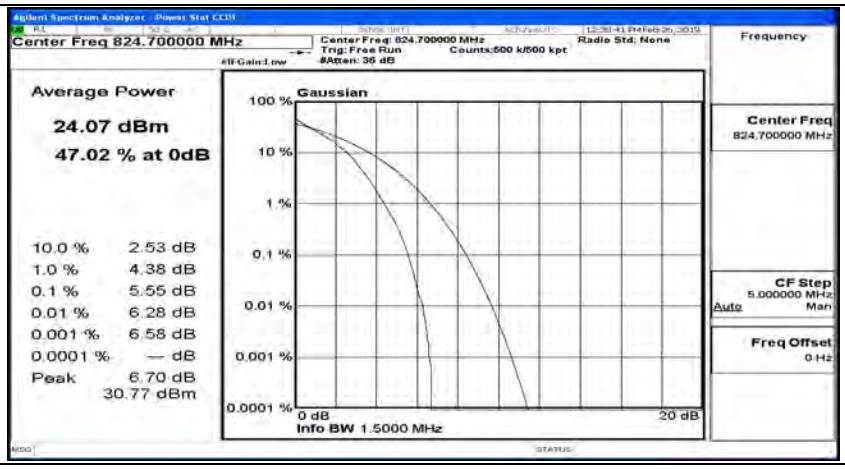
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_3RB#2



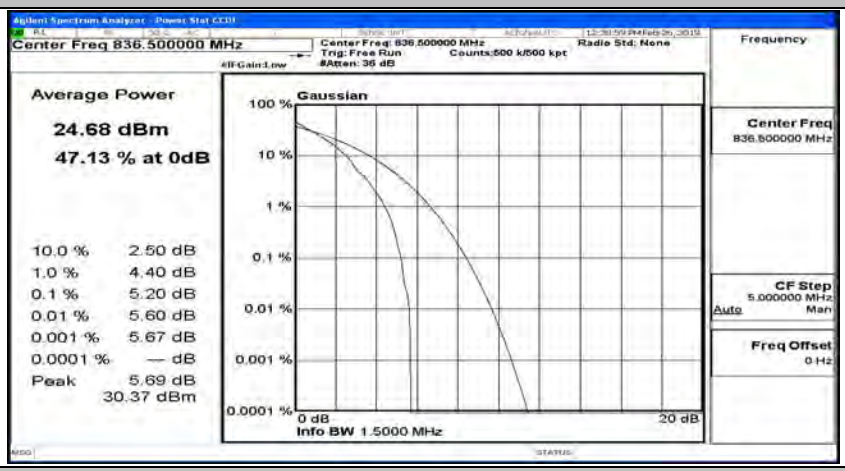
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_3RB#3



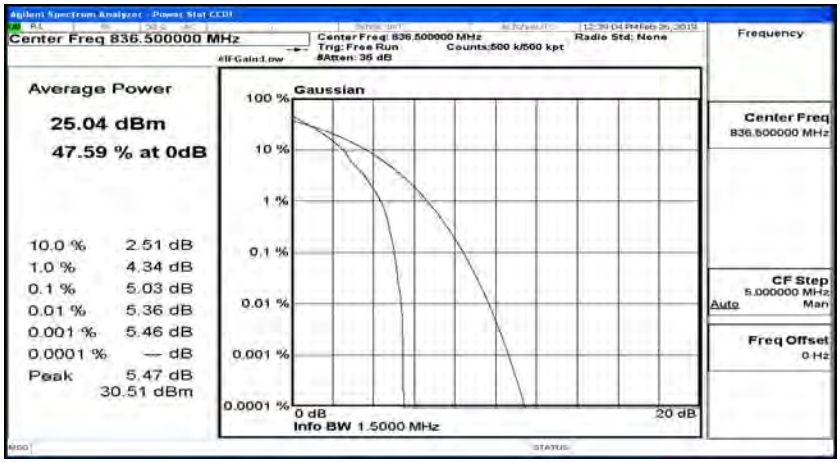
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_6RB#0



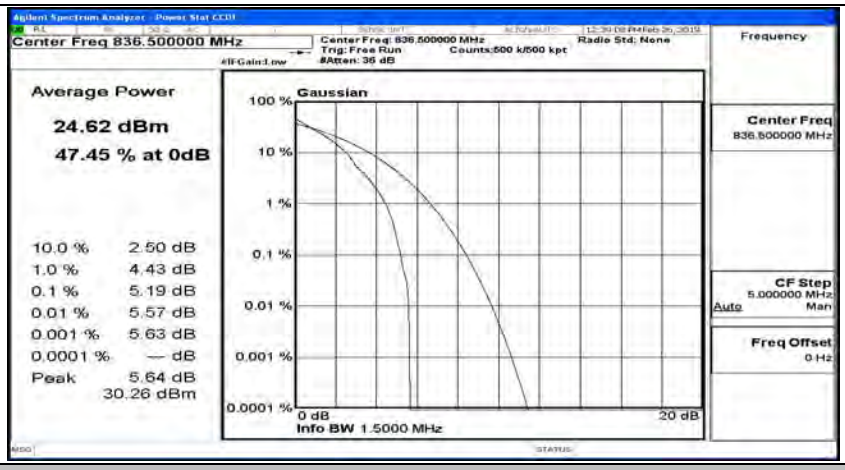
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#0



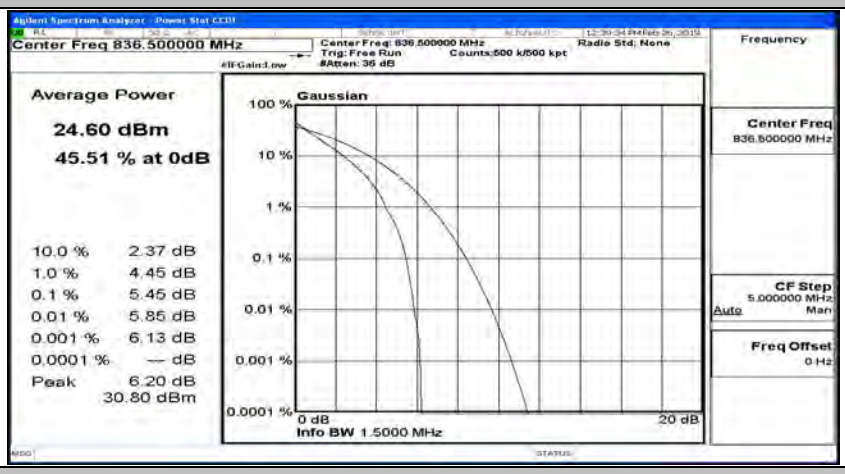
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#3



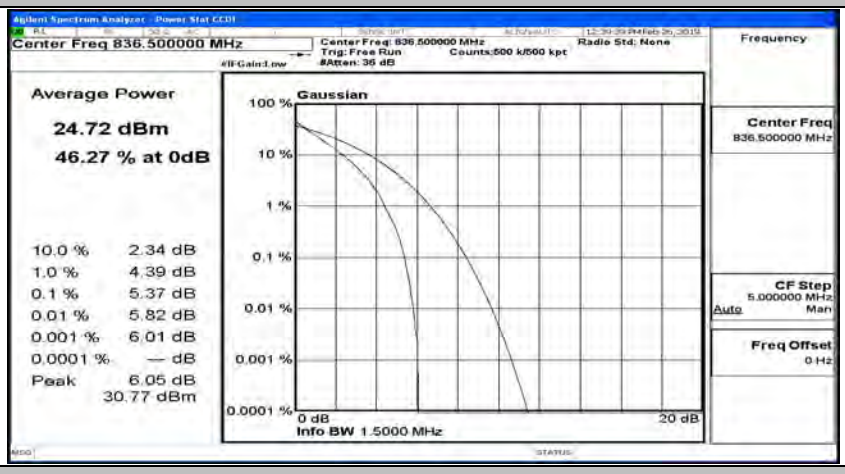
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#5



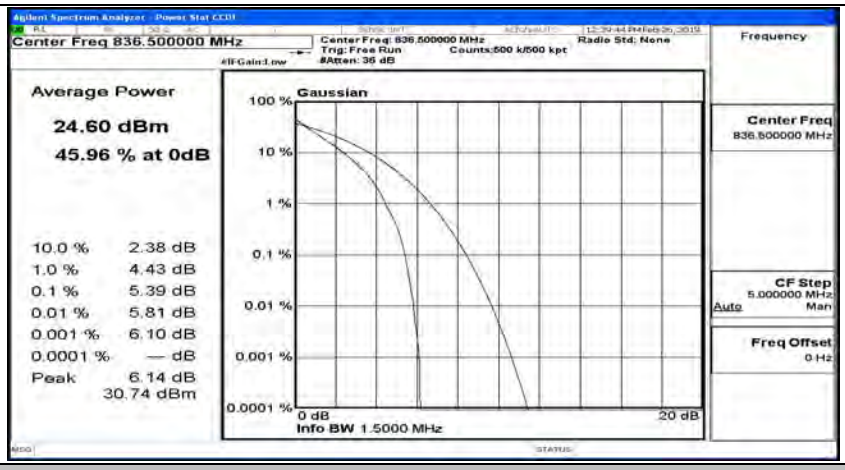
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_3RB#0



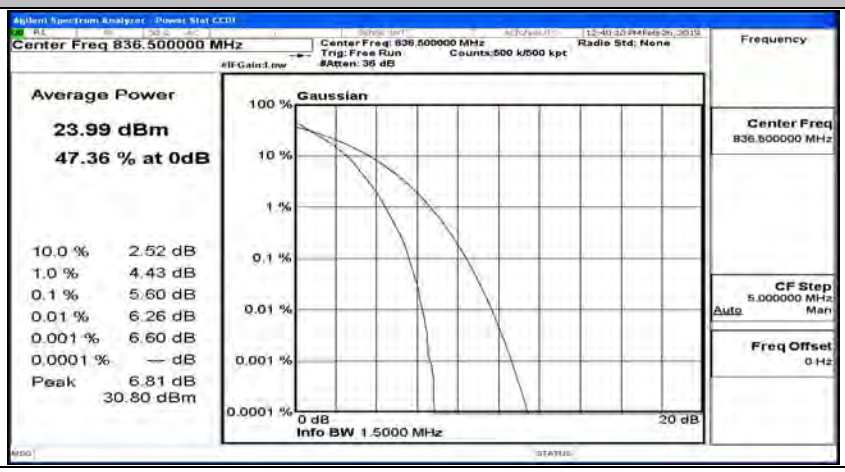
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_3RB#2



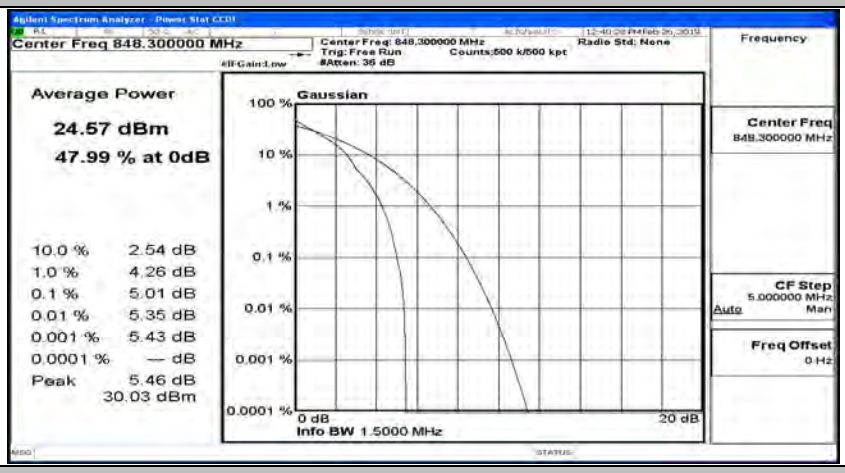
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_3RB#3



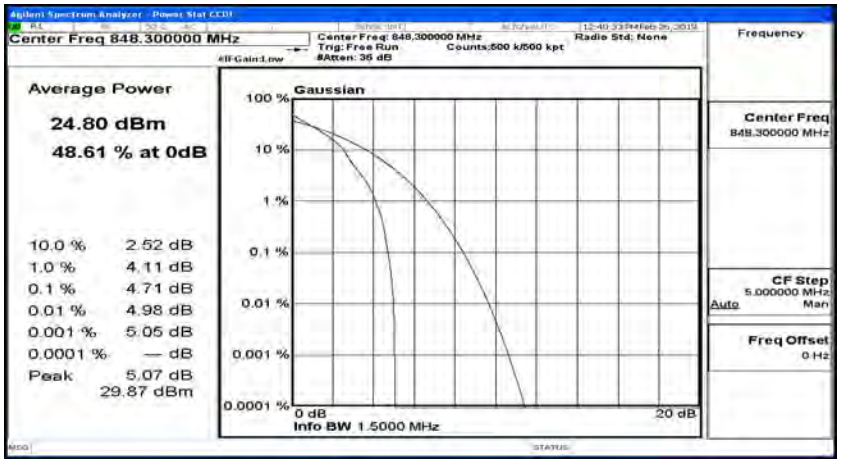
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_6RB#0



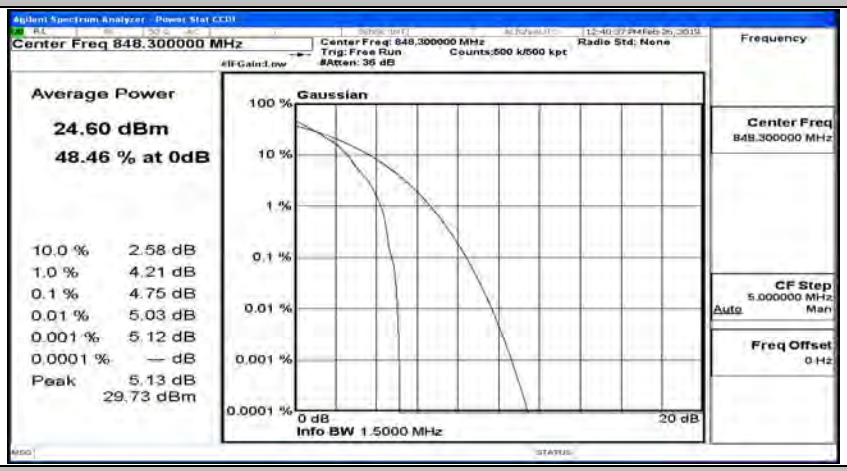
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#0



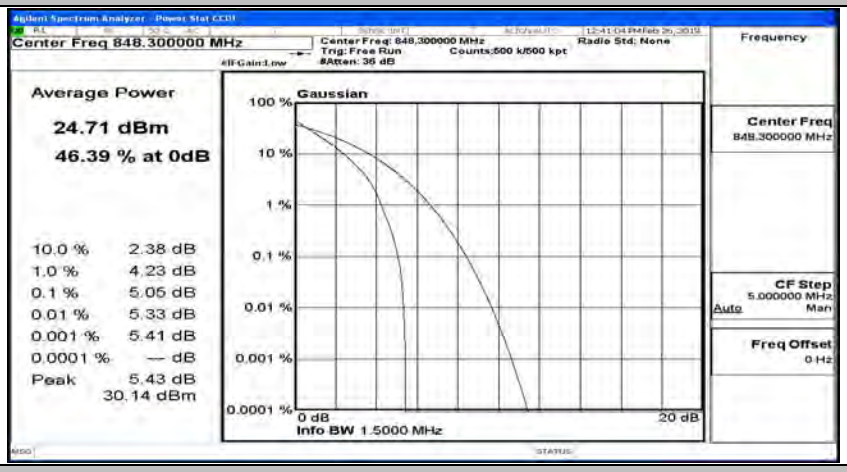
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#3



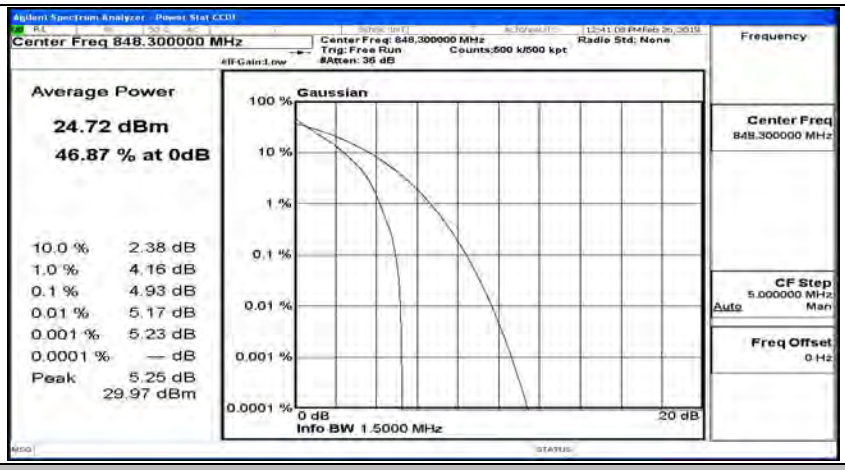
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#5



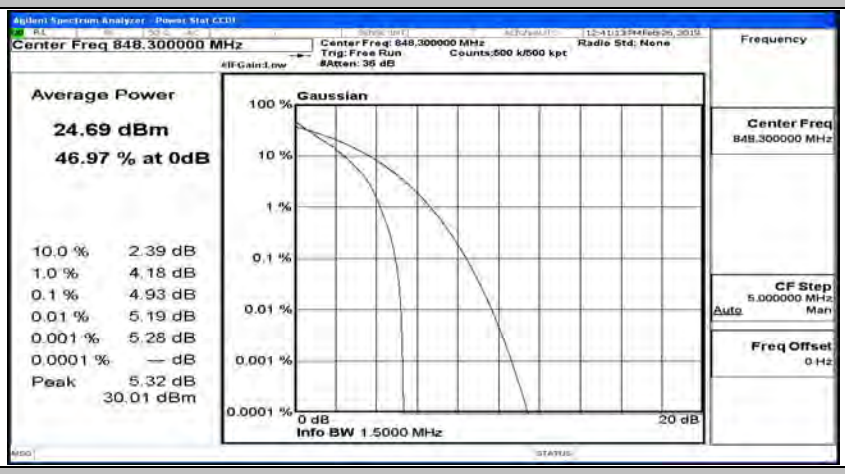
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_3RB#0



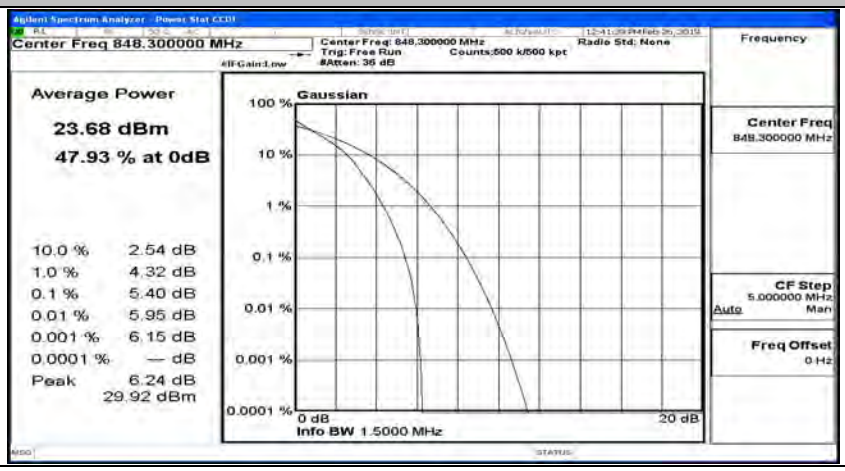
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_3RB#2



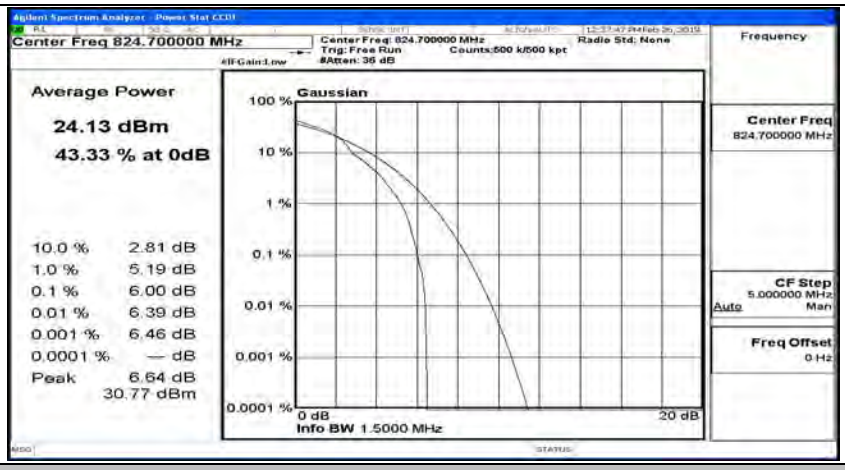
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_3RB#3



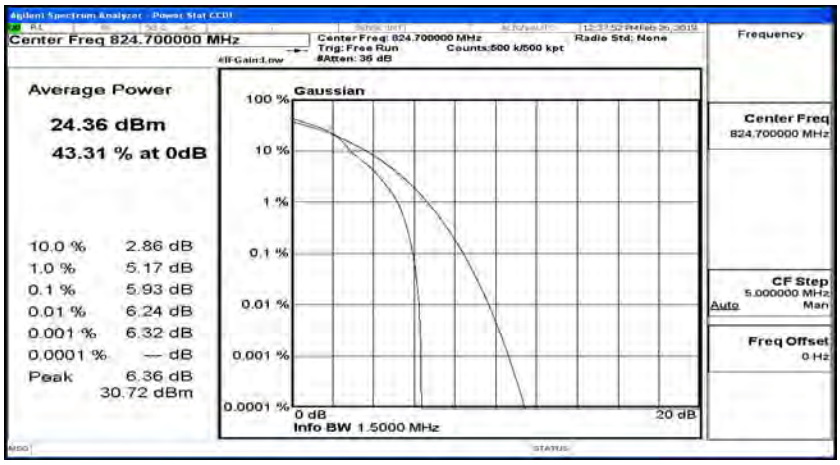
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_6RB#0



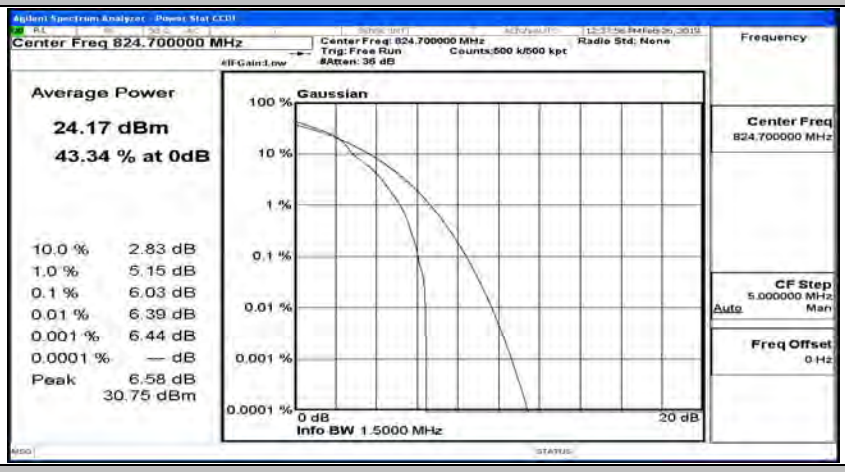
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#0



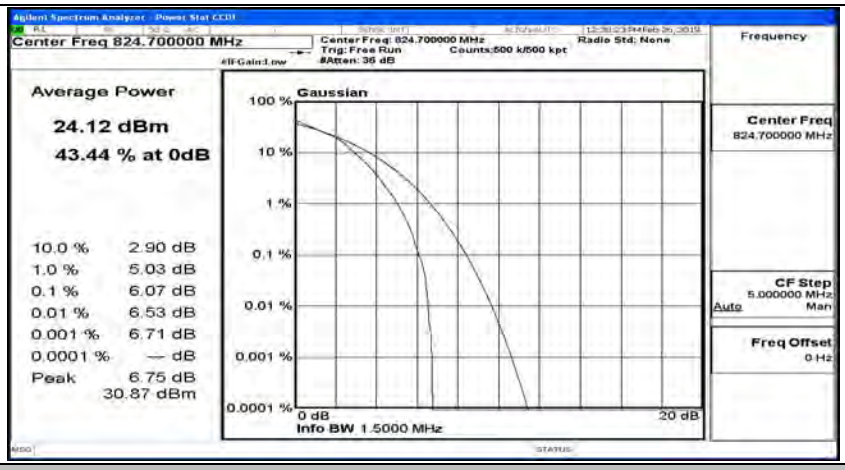
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#3



(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#5



(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_3RB#0



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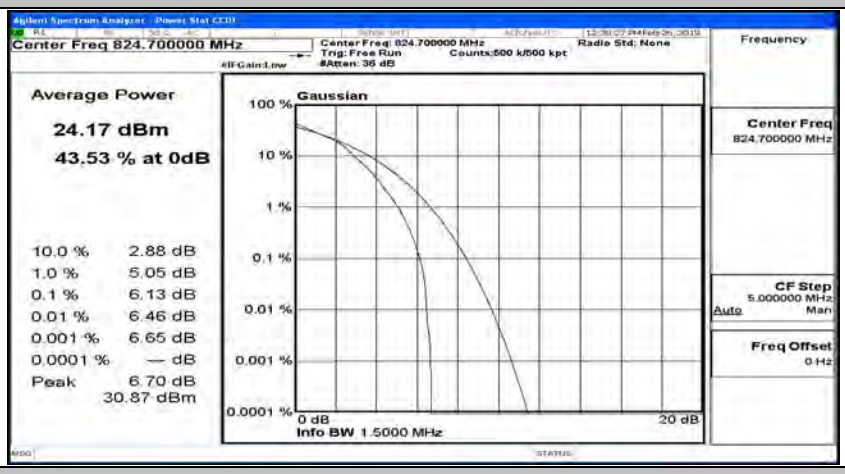
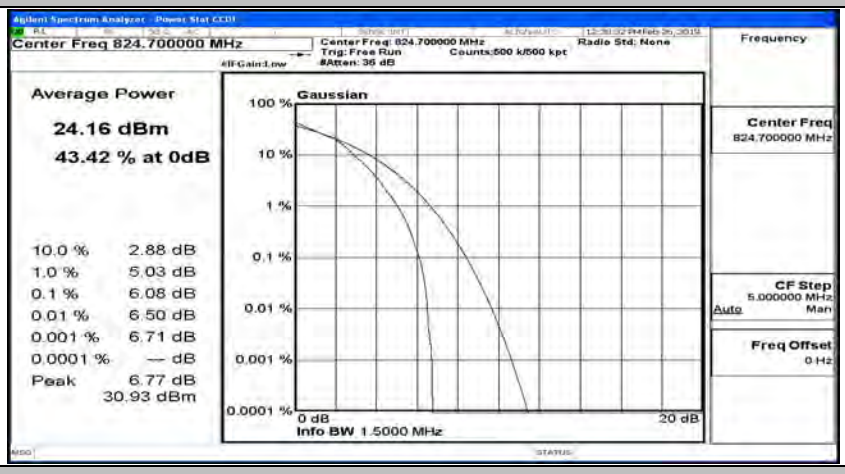


(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_3RB#3



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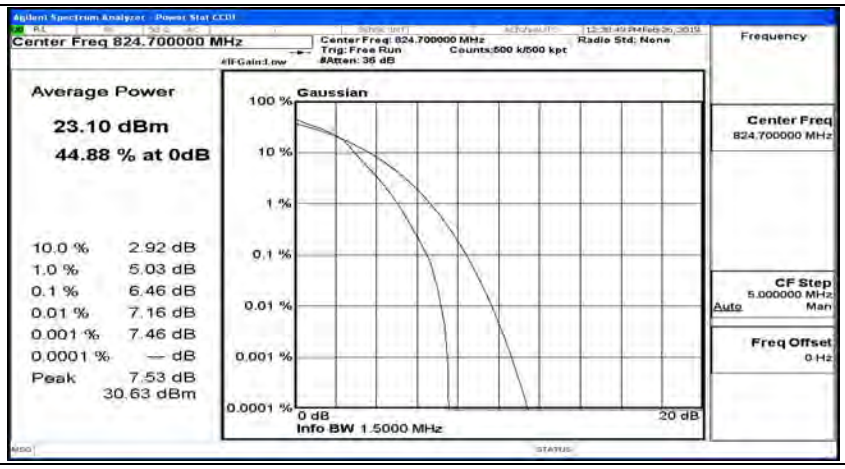

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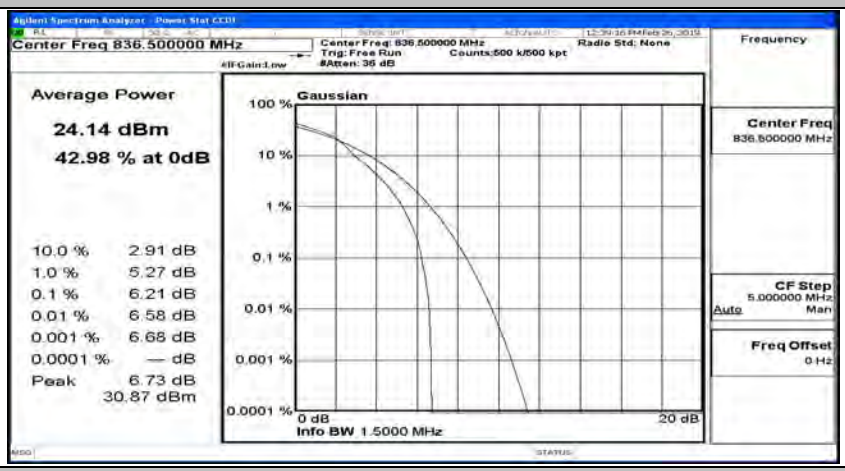
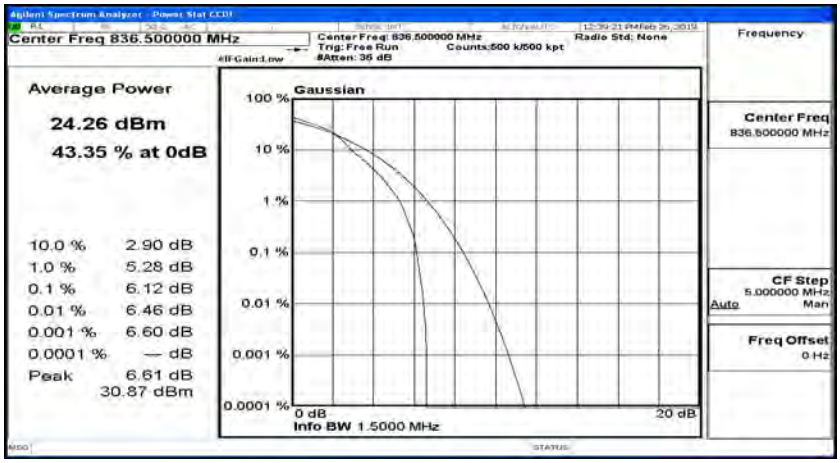


(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#3



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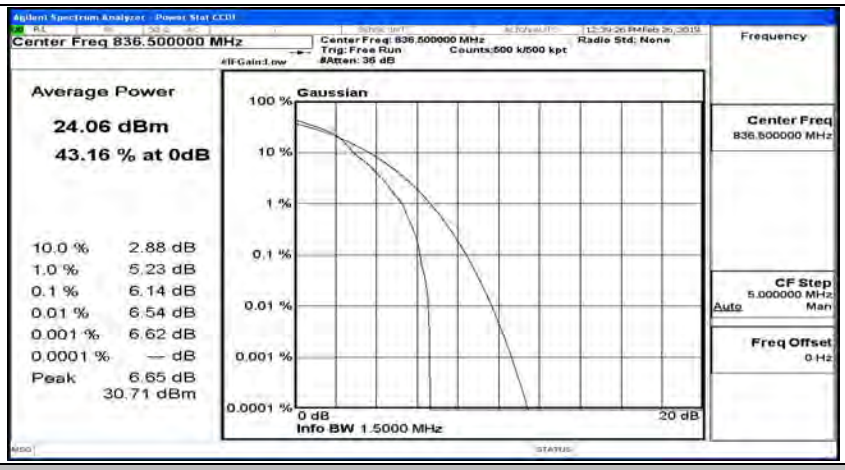
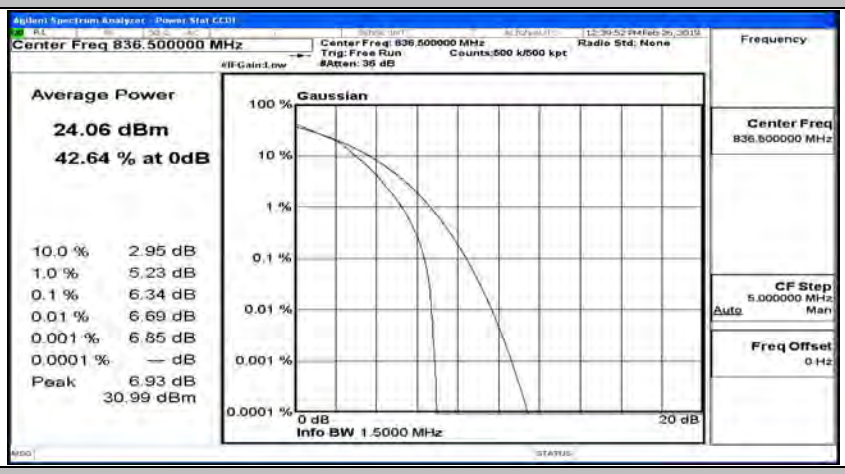
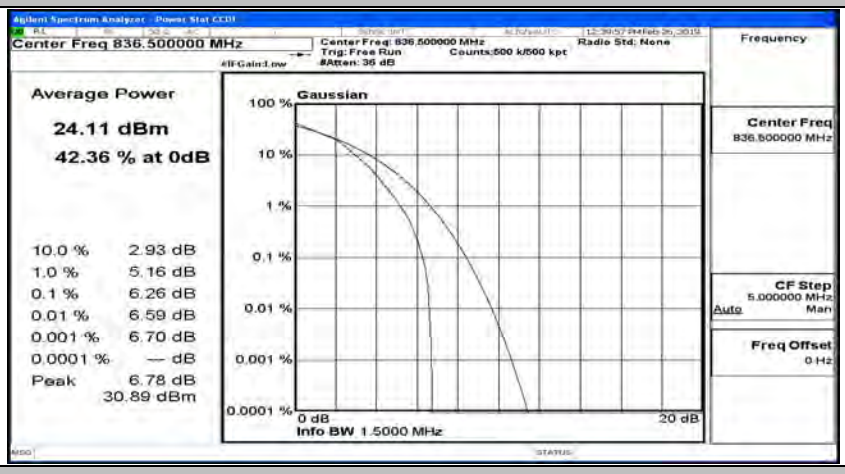


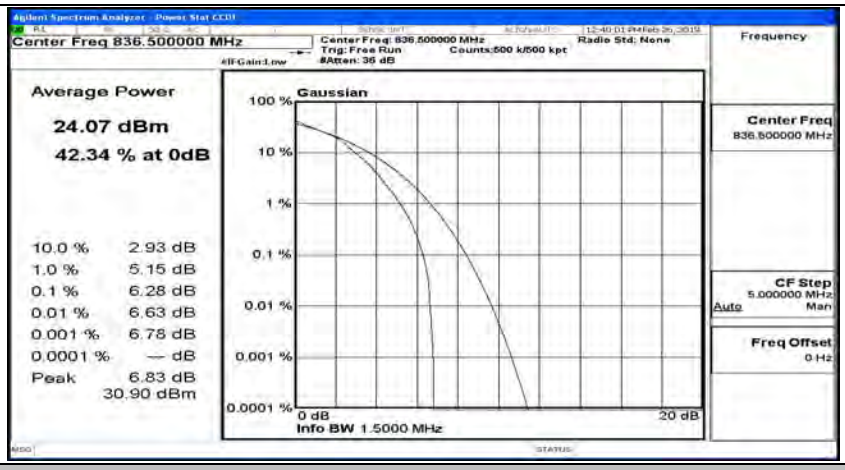
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_3RB#0



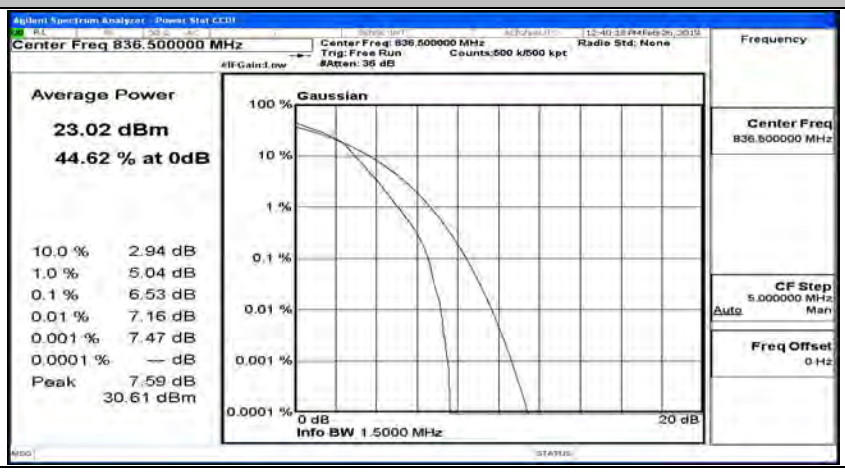
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_3RB#2



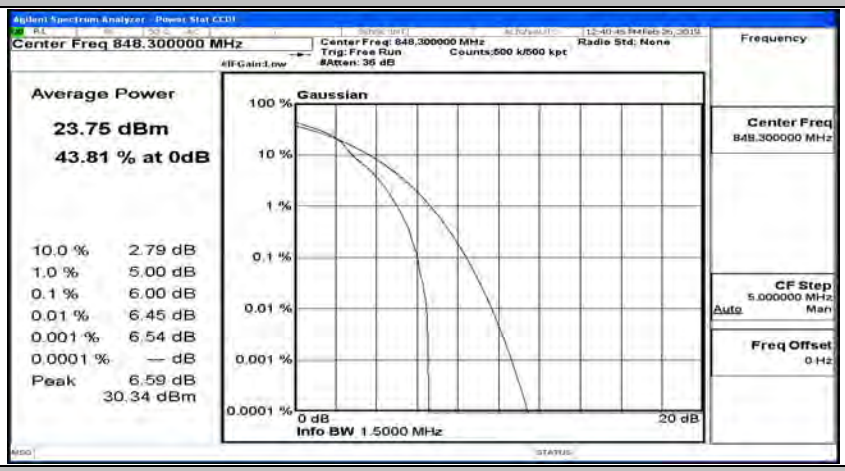
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_3RB#3



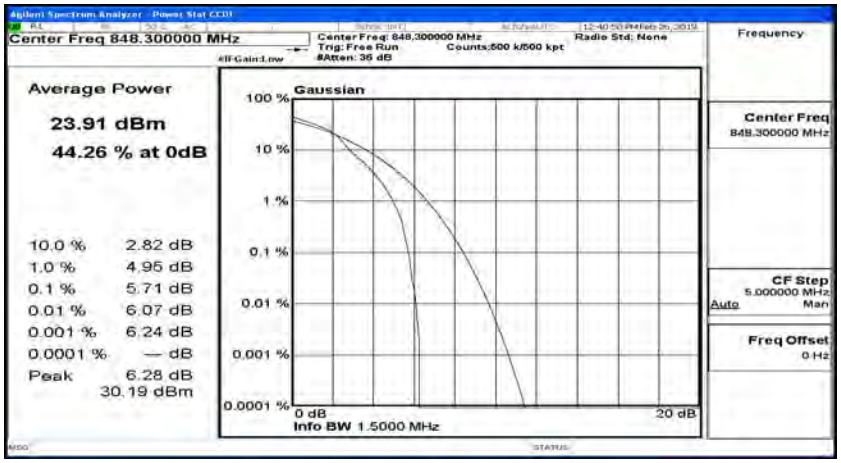
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_6RB#0



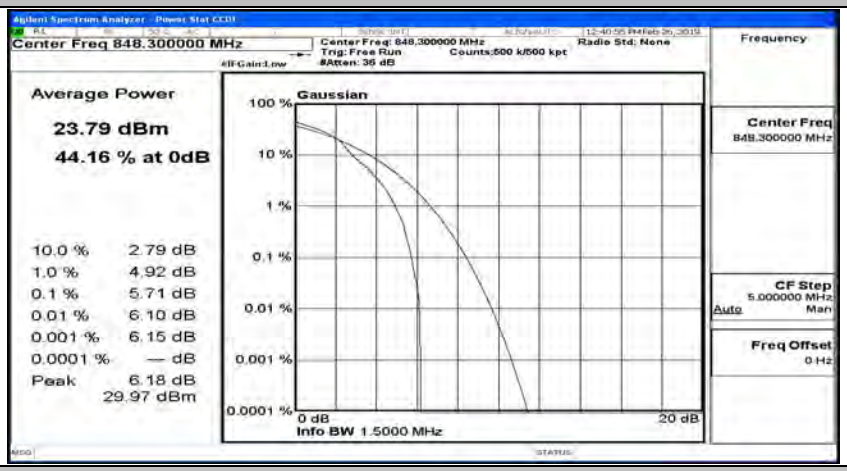
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#0



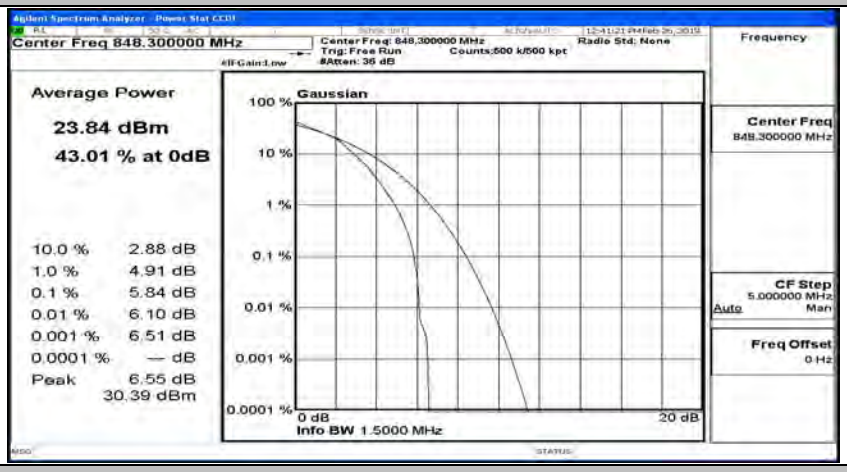
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#3



(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#5



(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_3RB#0



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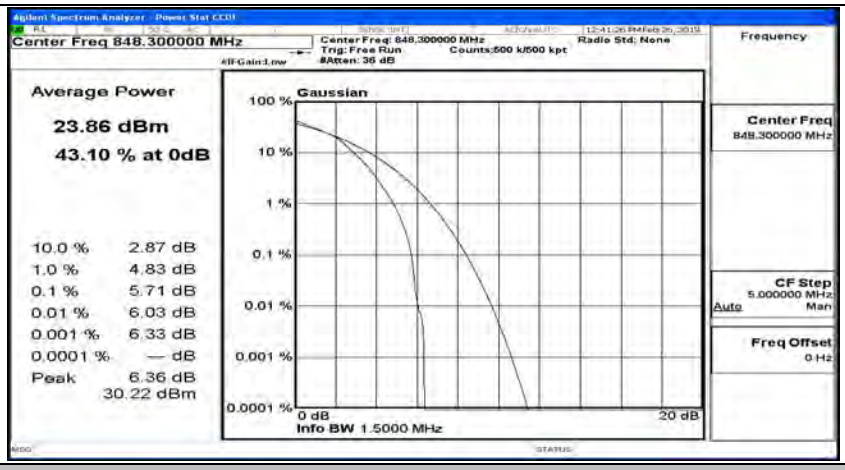

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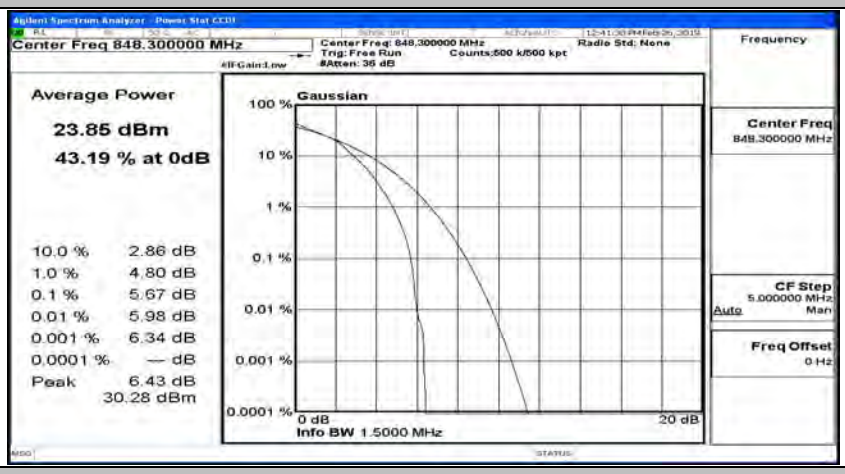
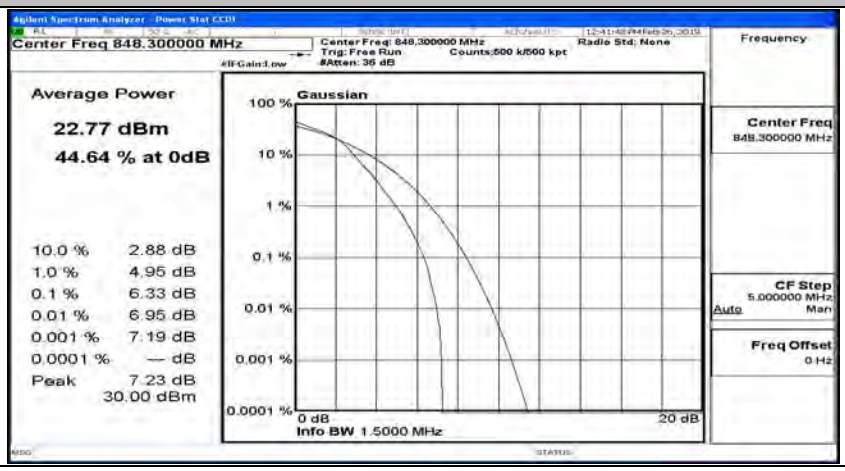
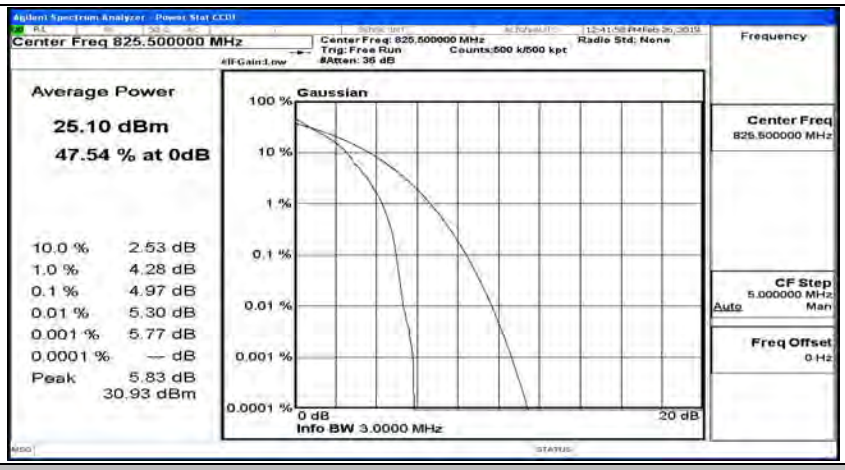


(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_6RB#0



Channel Bandwidth: 3 MHz

(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#0



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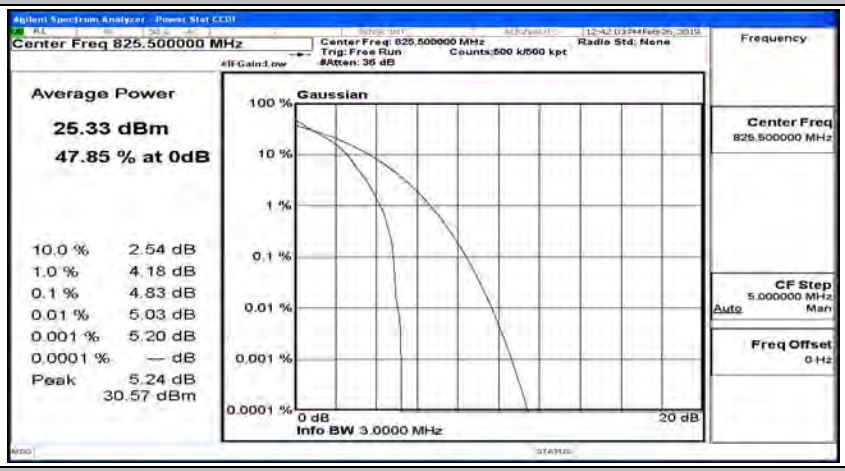

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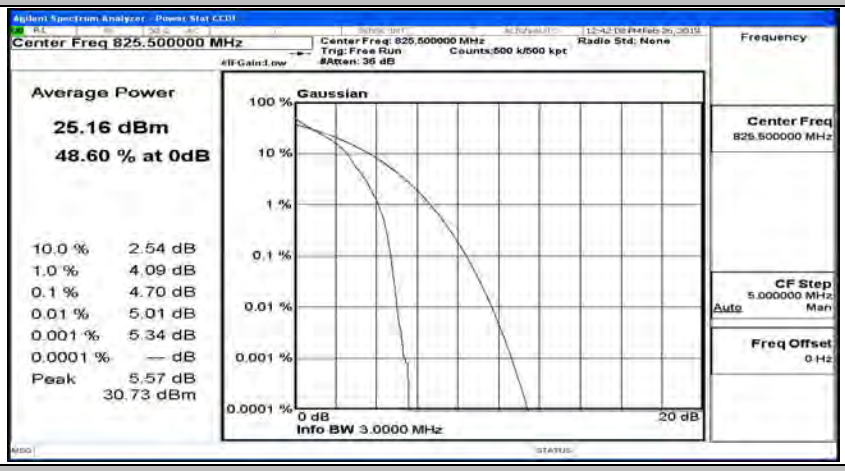

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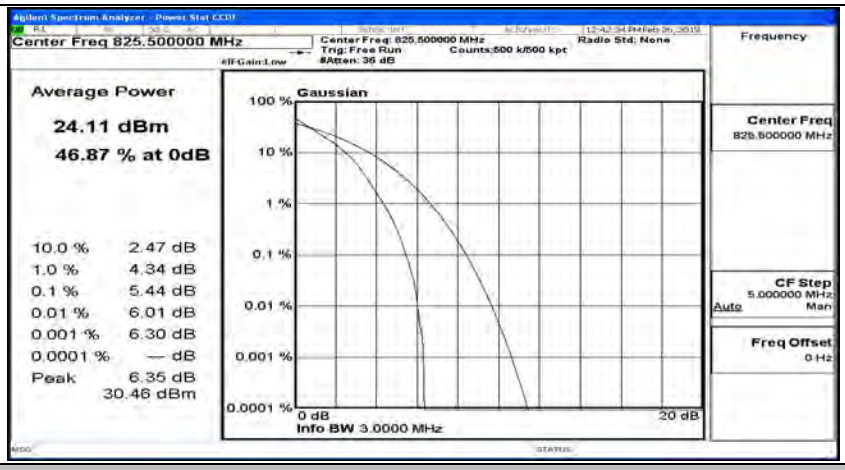
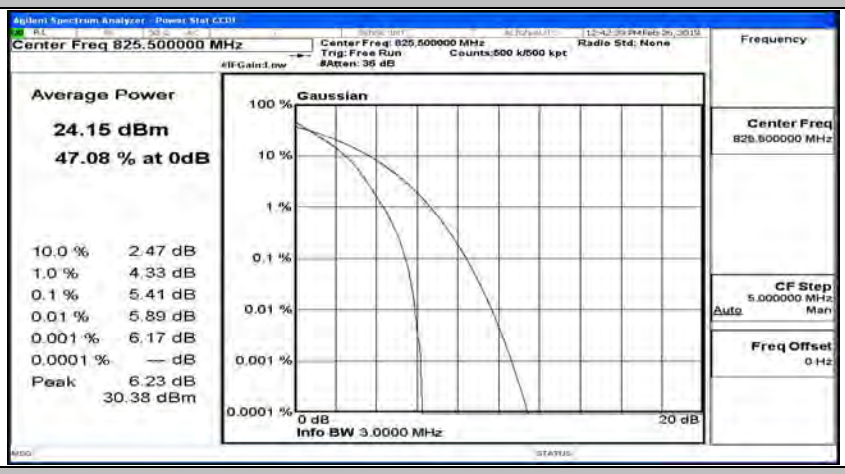


(Channel Bandwidth: 3 MHz)_LCH_QPSK_8RB#4



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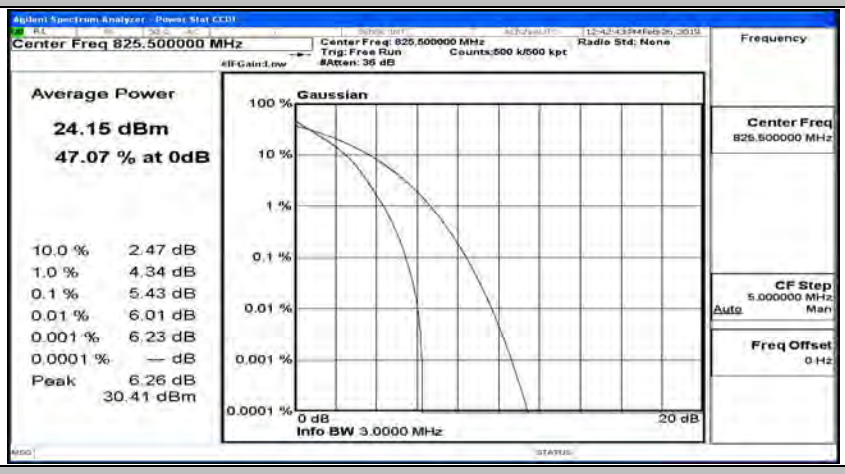

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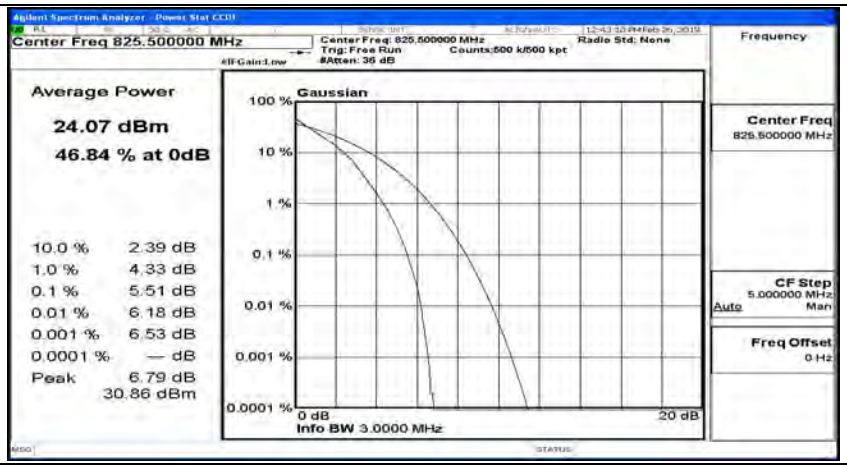

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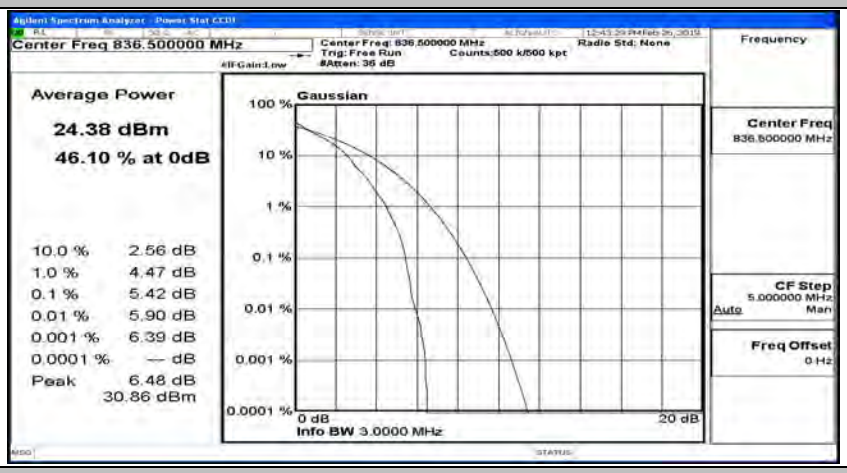

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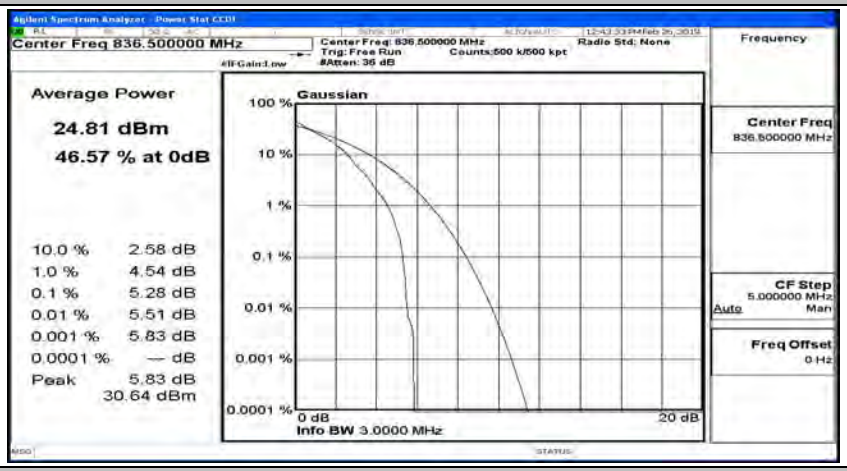

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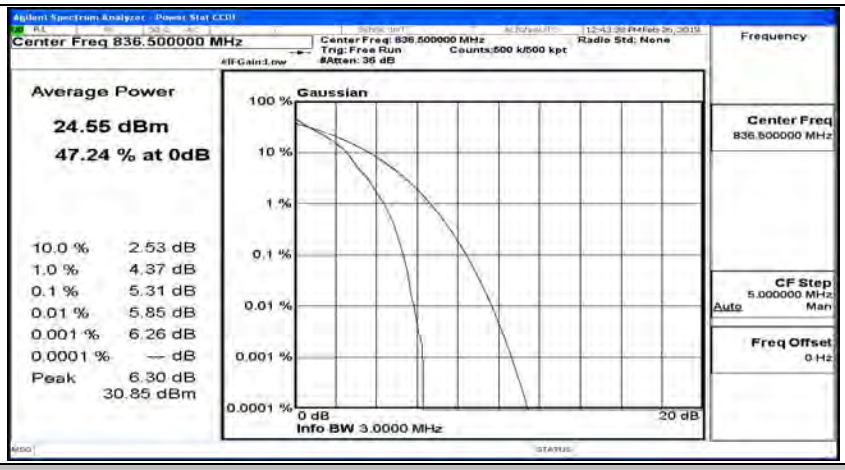

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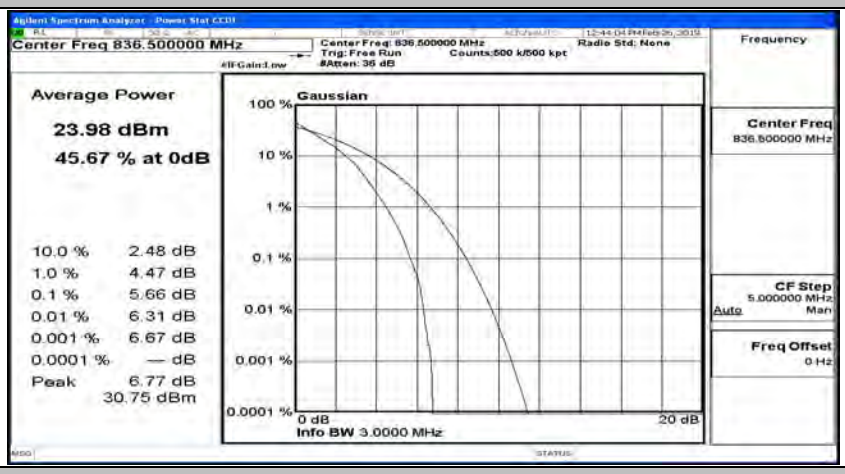

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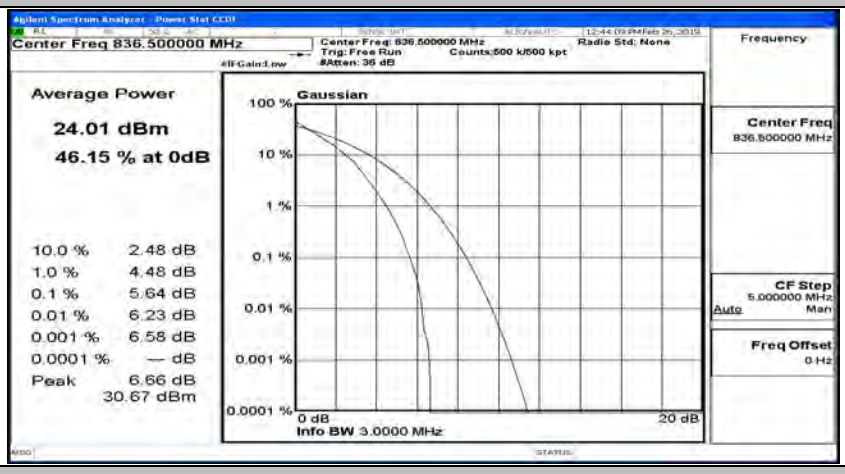

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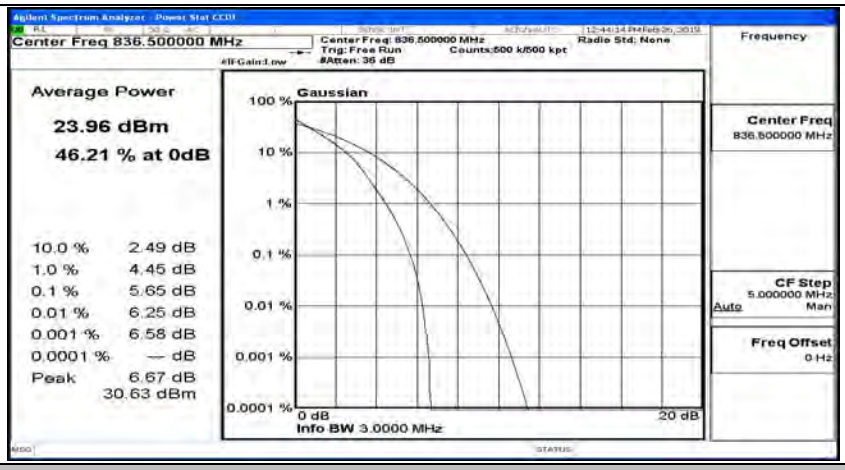

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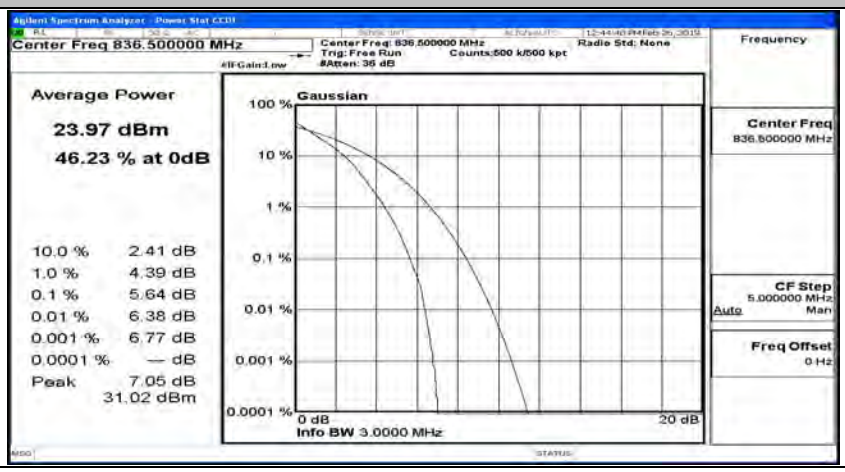

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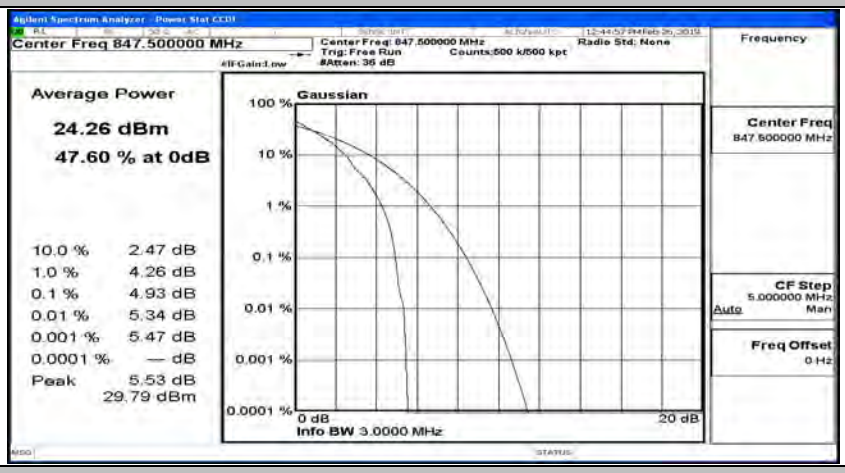

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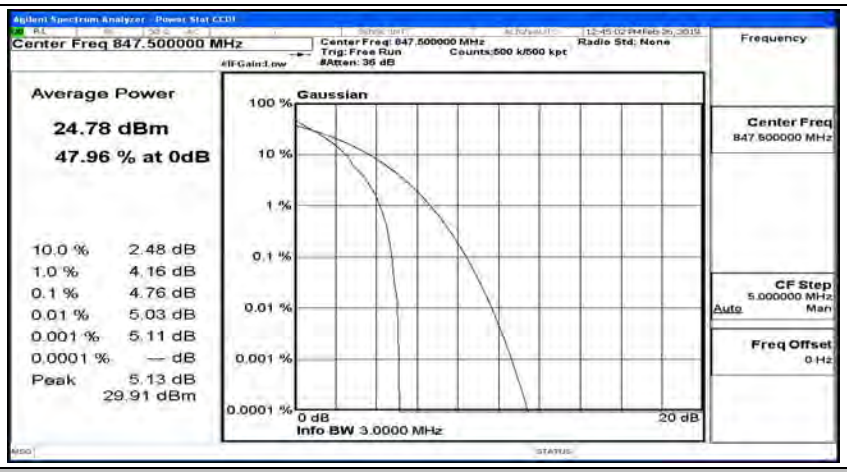

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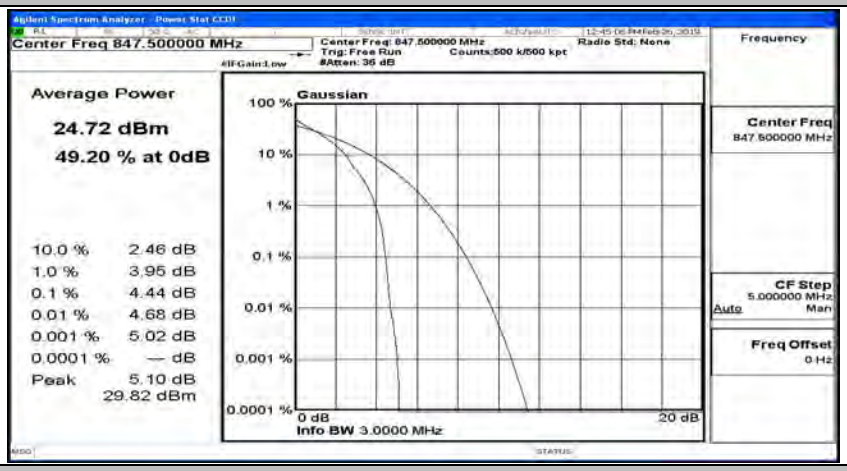

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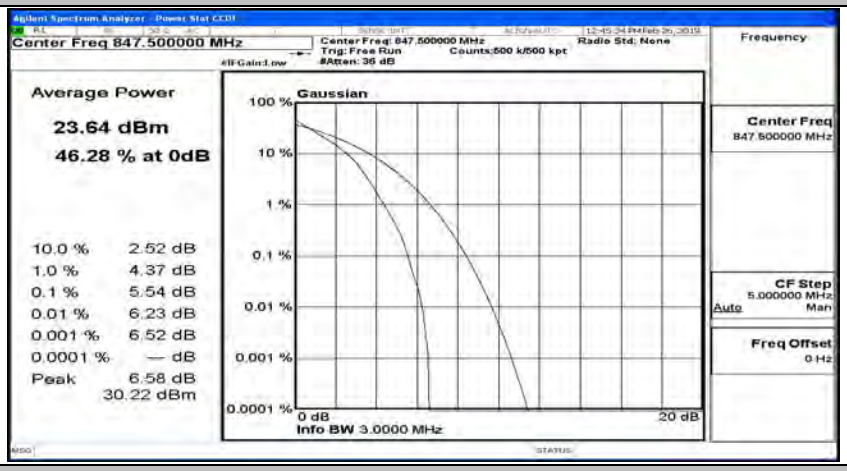

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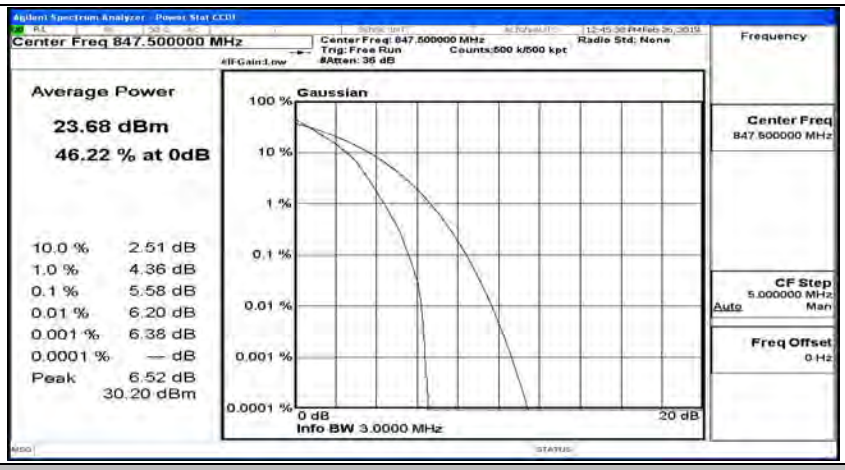

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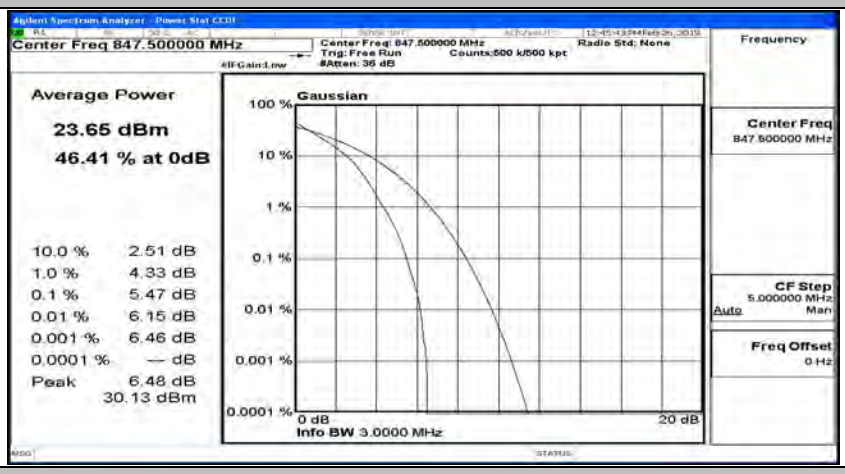

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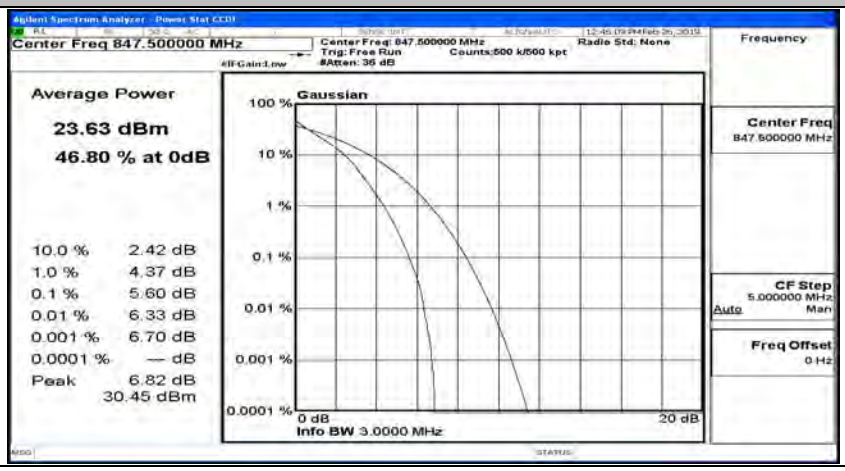
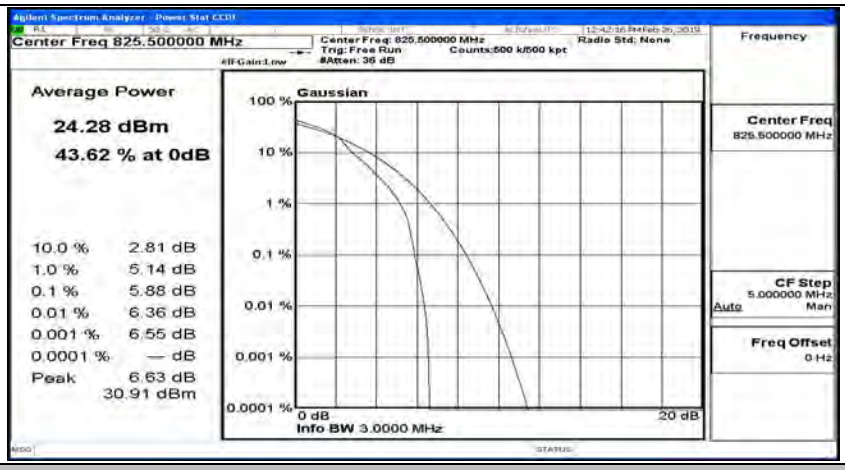
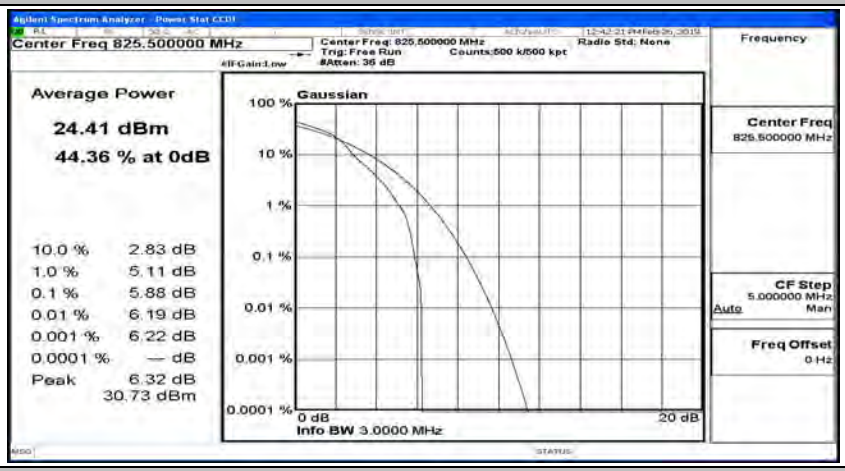


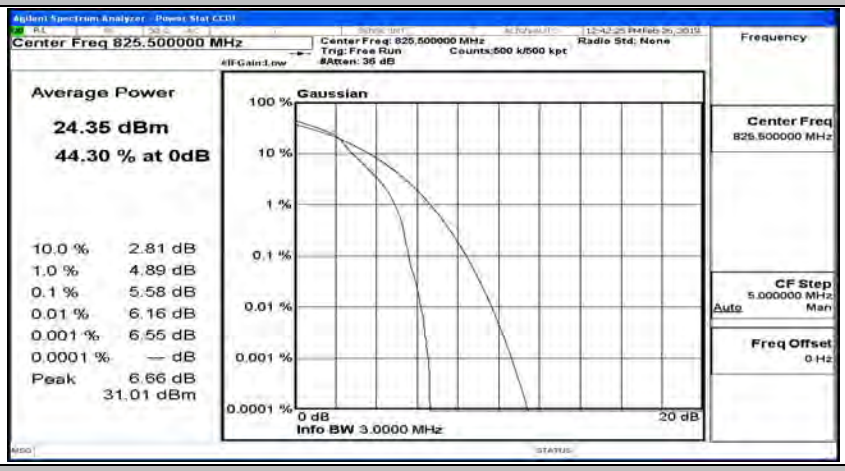
(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#0



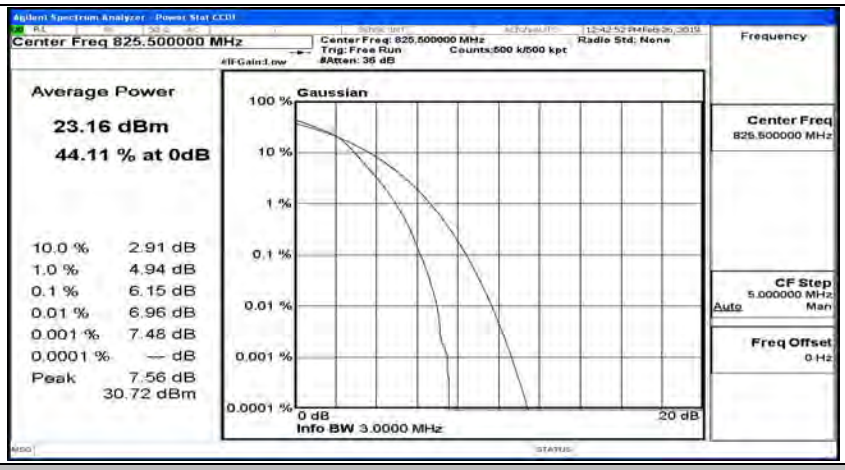
(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#7



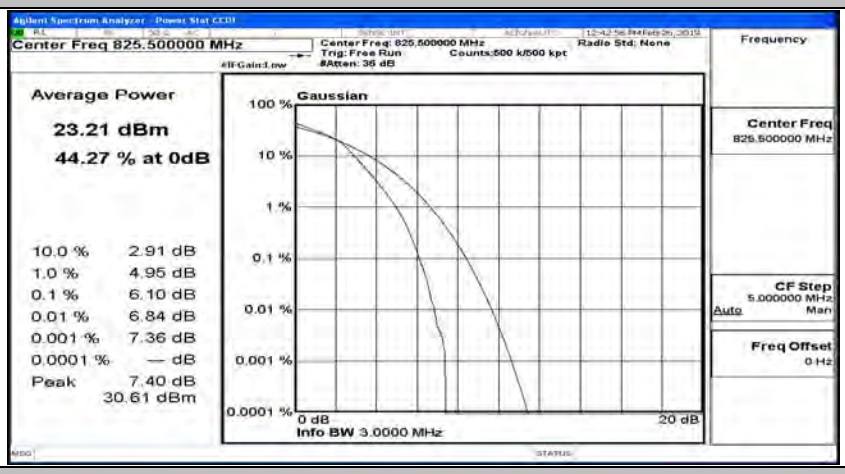
(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#14



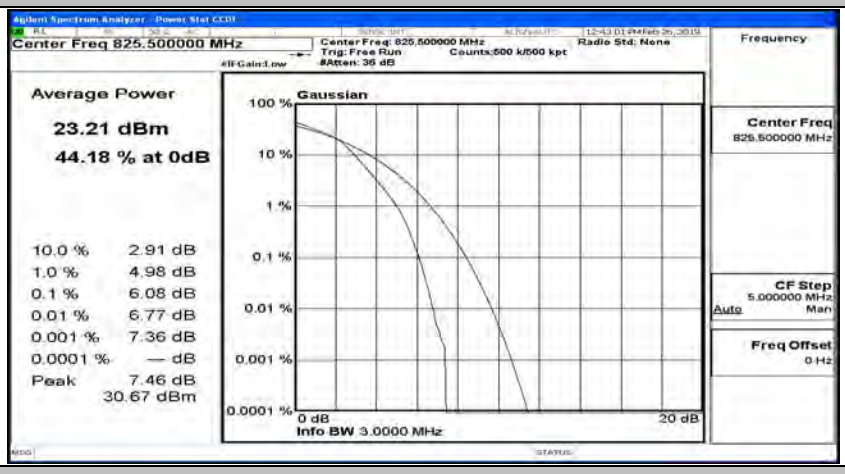
(Channel Bandwidth: 3 MHz)_LCH_16QAM_8RB#0



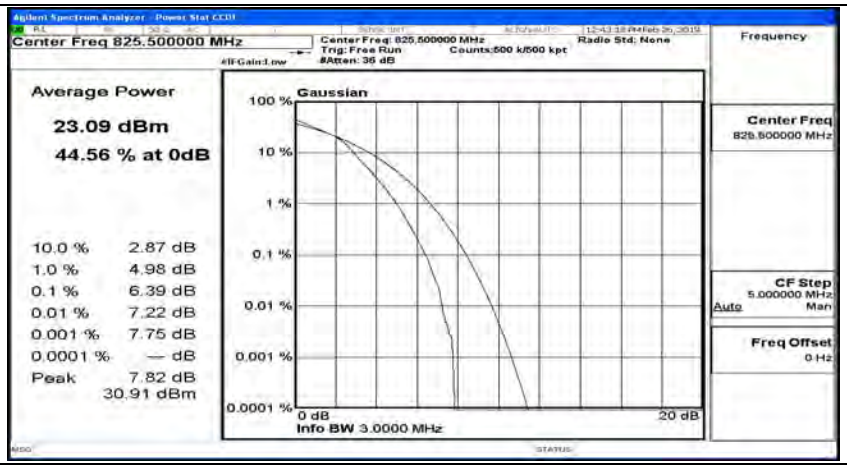
(Channel Bandwidth: 3 MHz)_LCH_16QAM_8RB#4



(Channel Bandwidth: 3 MHz)_LCH_16QAM_8RB#7



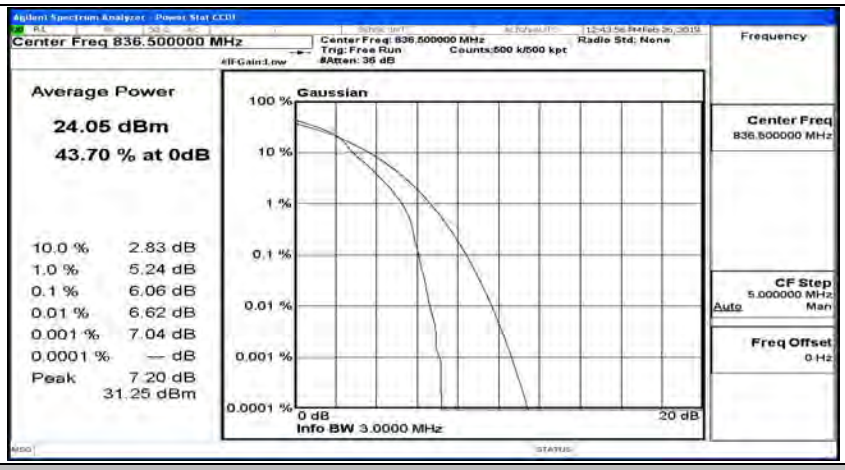
(Channel Bandwidth: 3 MHz)_LCH_16QAM_15RB#0



(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#0

(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#7

(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#14



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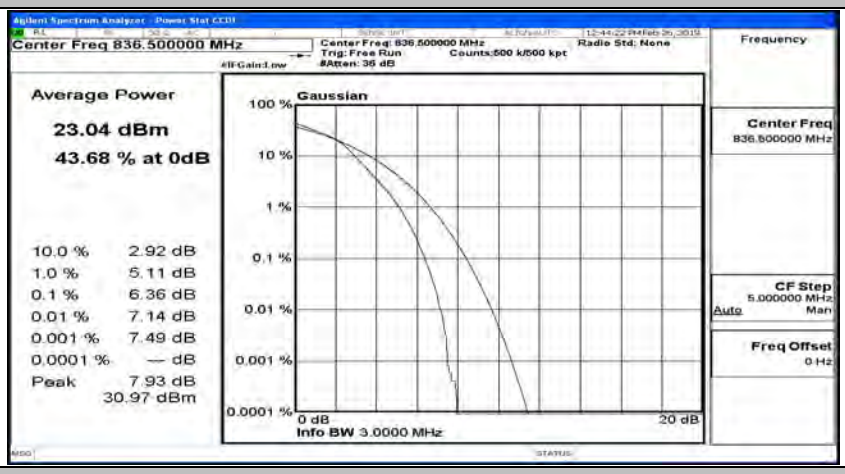

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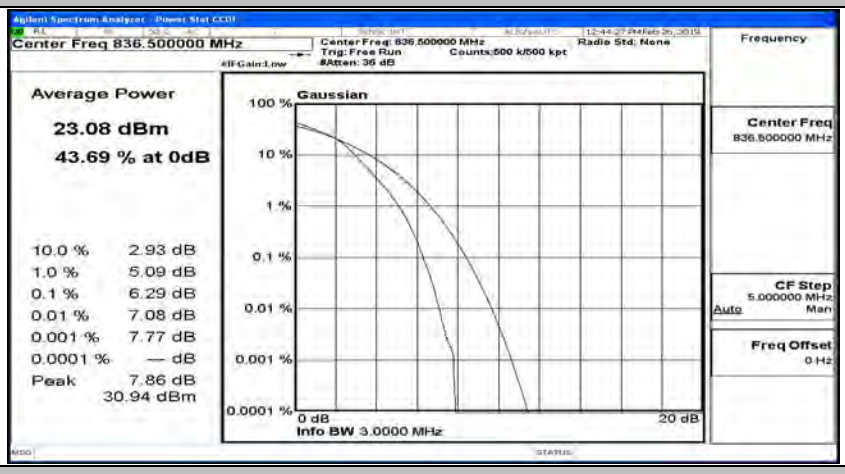

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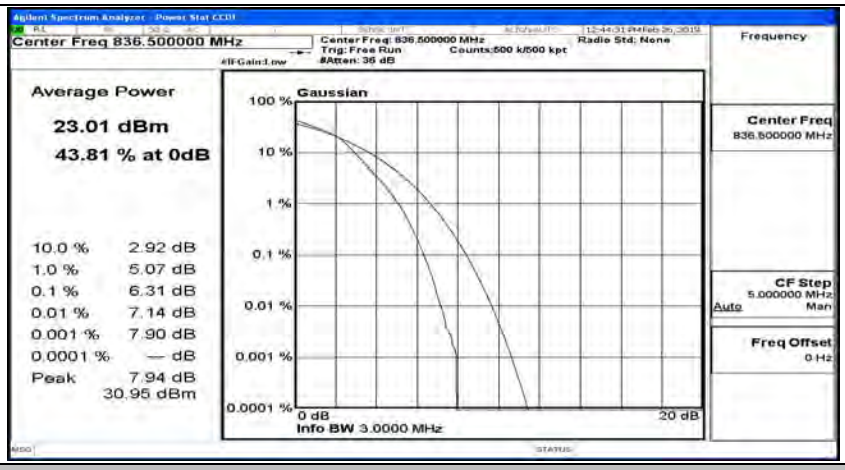

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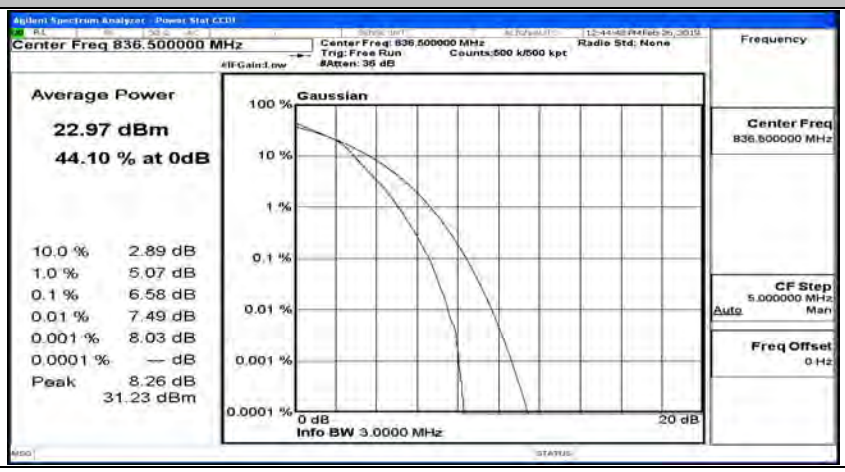
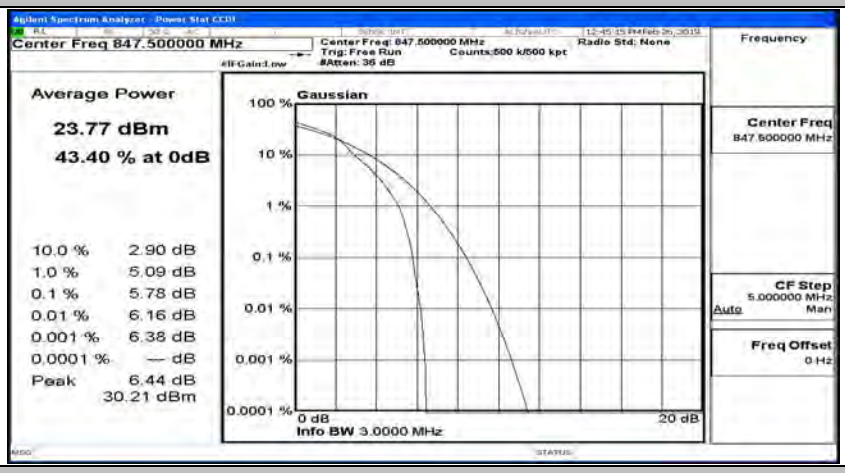


(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#0



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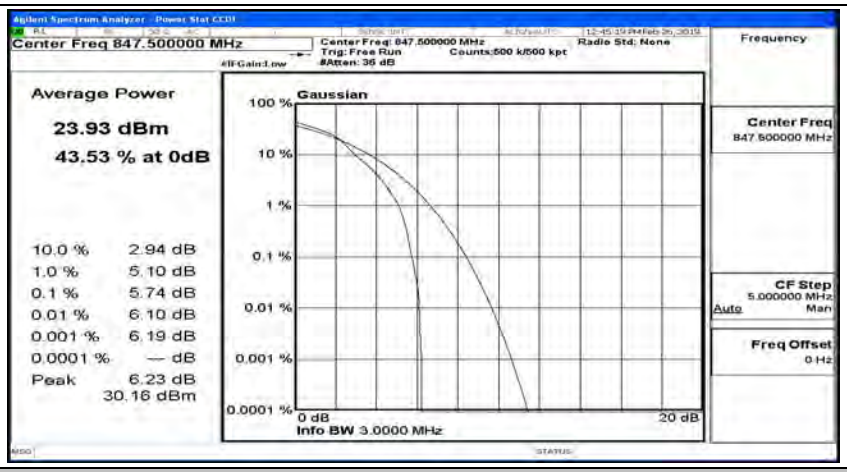
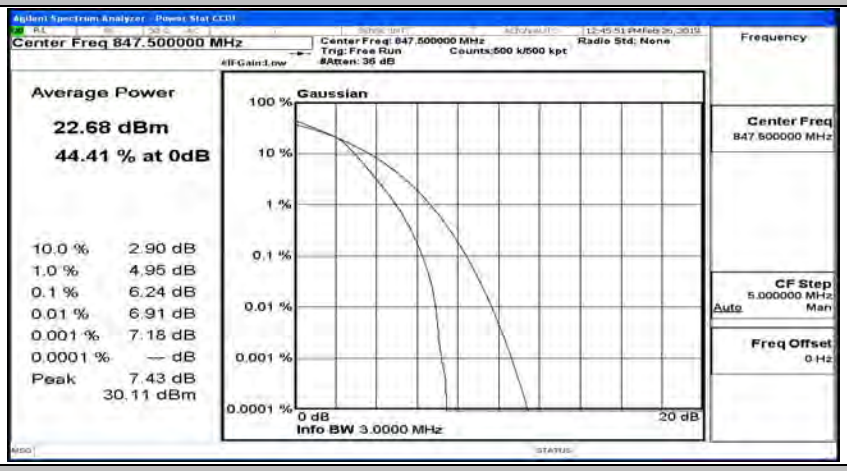
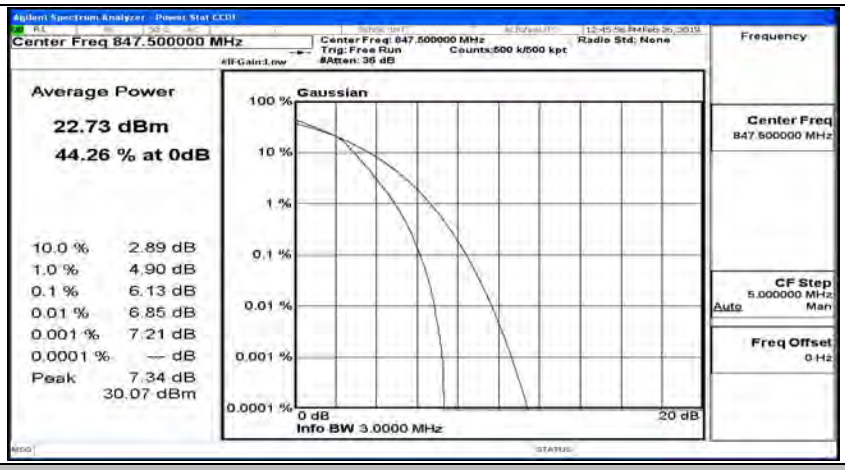


(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#14

(Channel Bandwidth: 3 MHz)_HCH_16QAM_8RB#0



(Channel Bandwidth: 3 MHz)_HCH_16QAM_8RB#4



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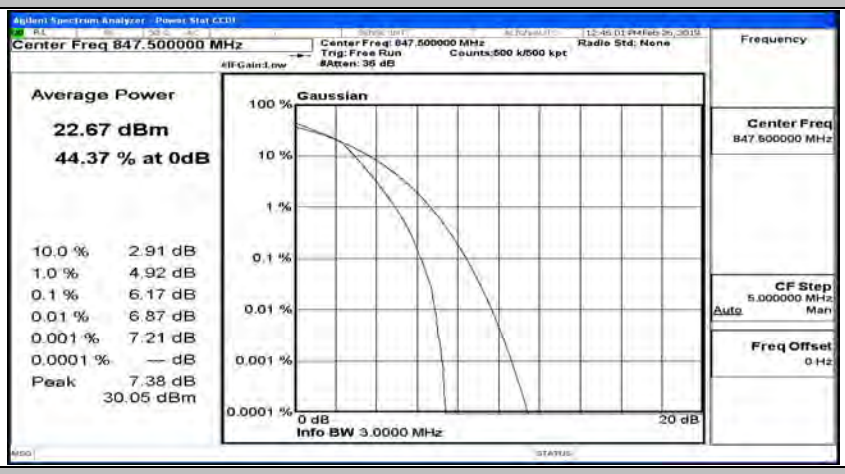

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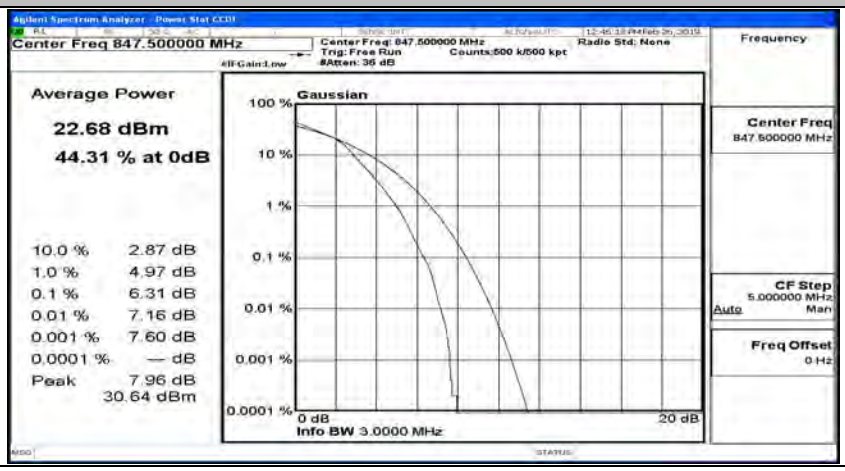
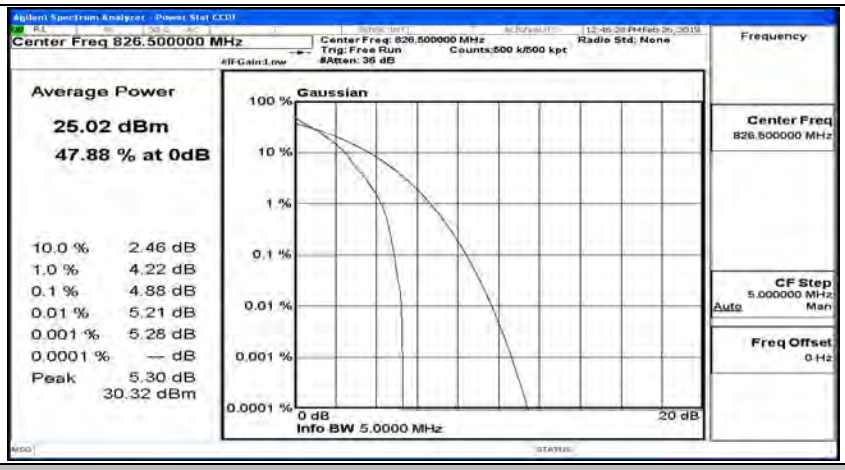
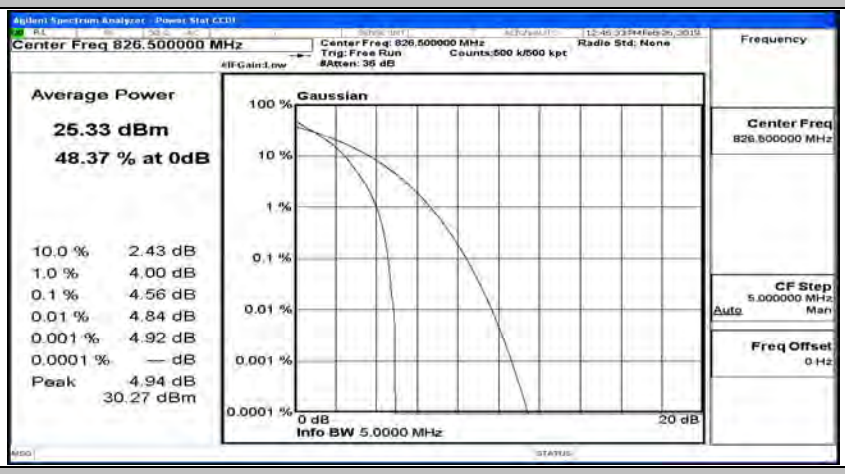


Channel Bandwidth: 5 MHz

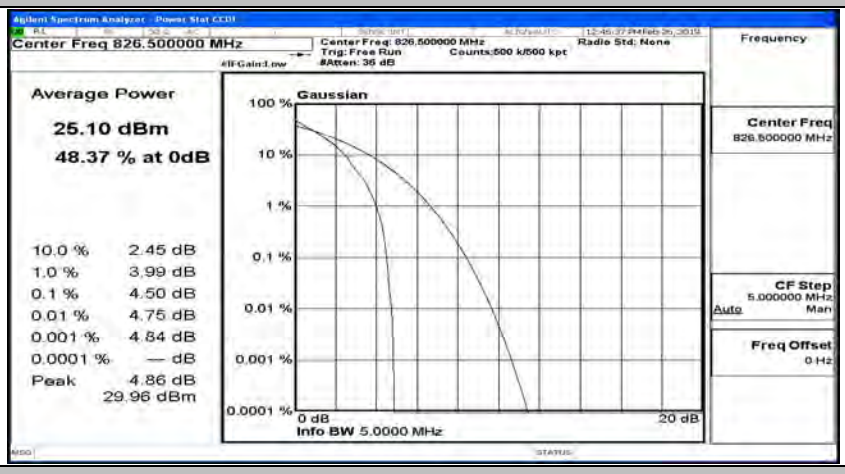
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#0



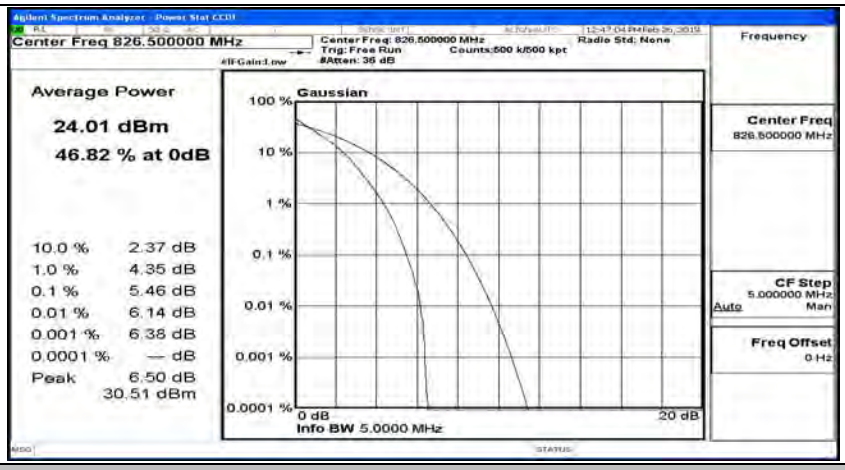
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#12



(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#24



(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#0



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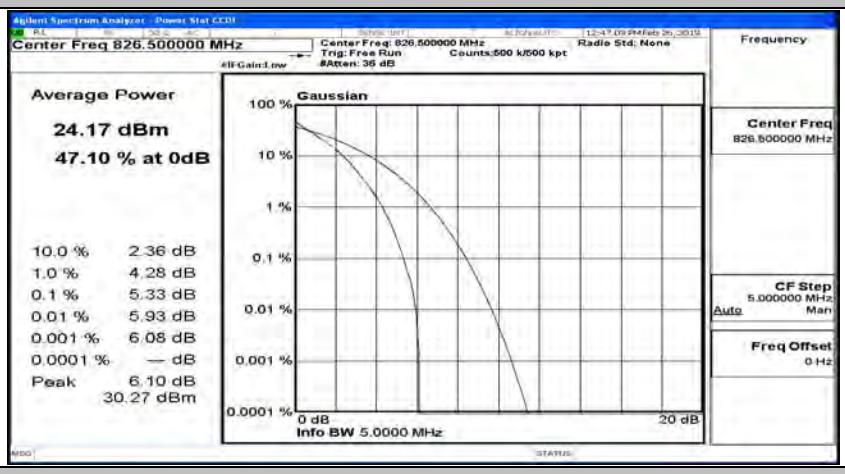

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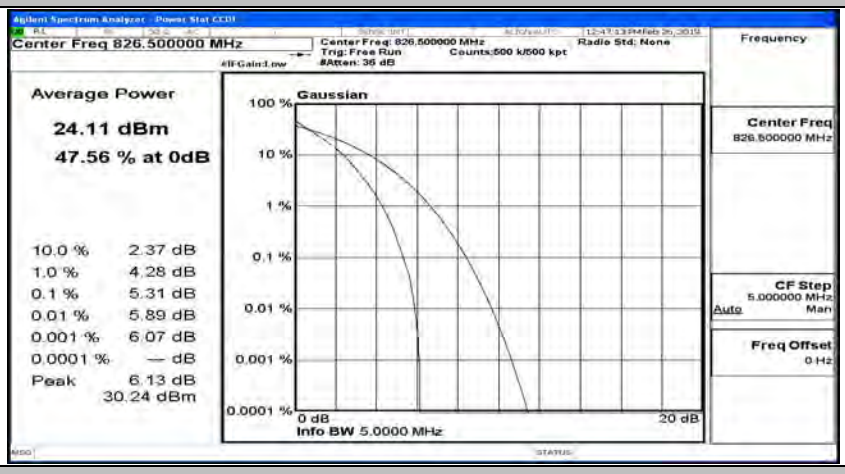

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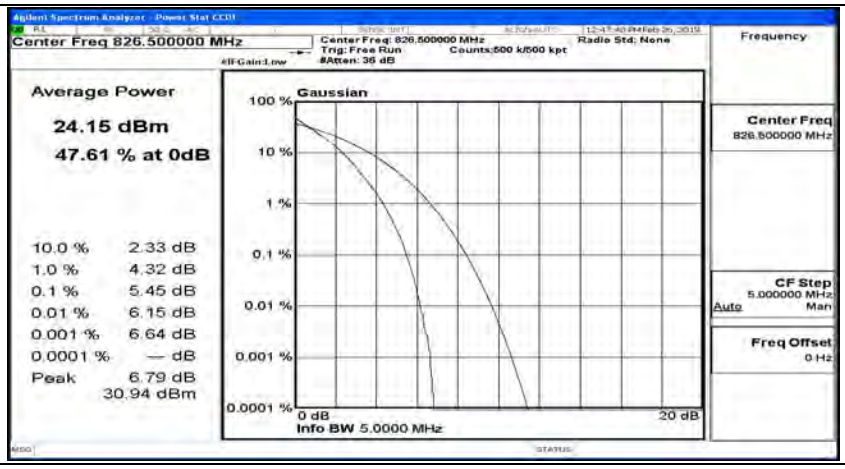
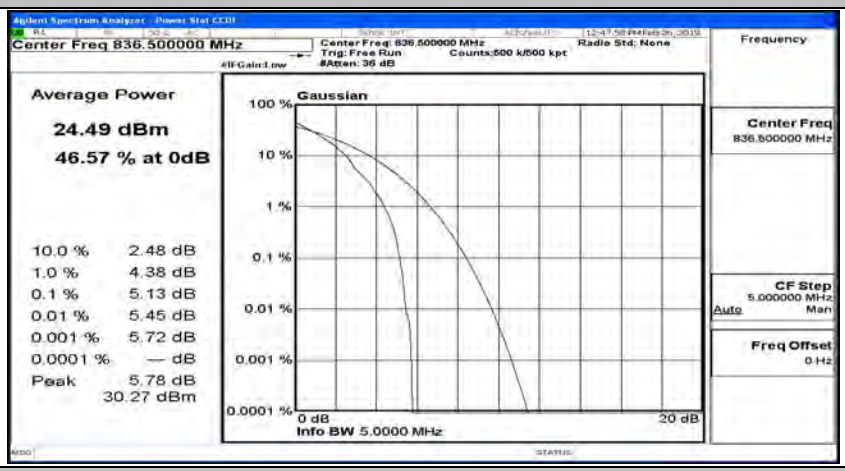


(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#0



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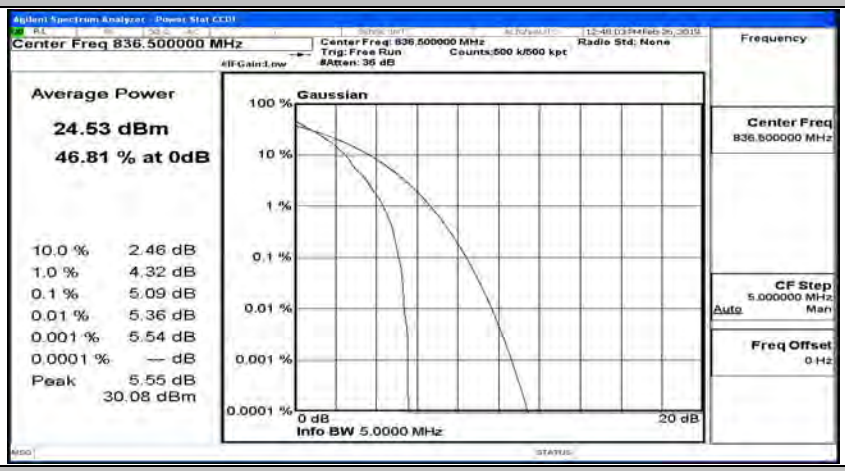

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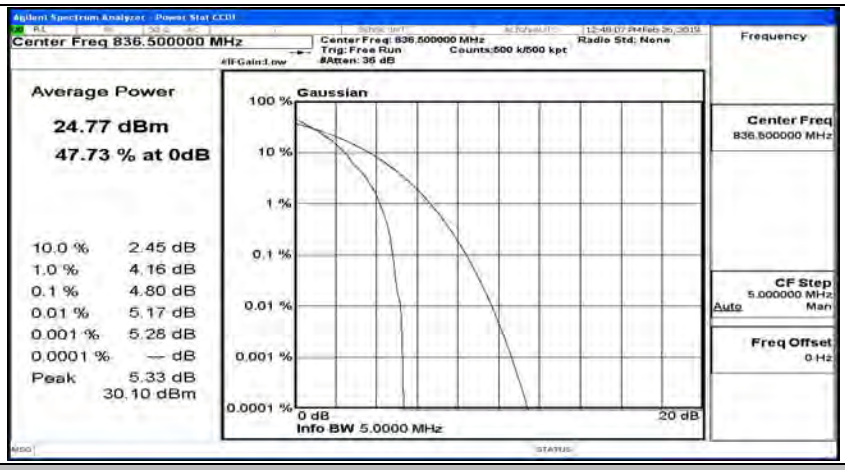

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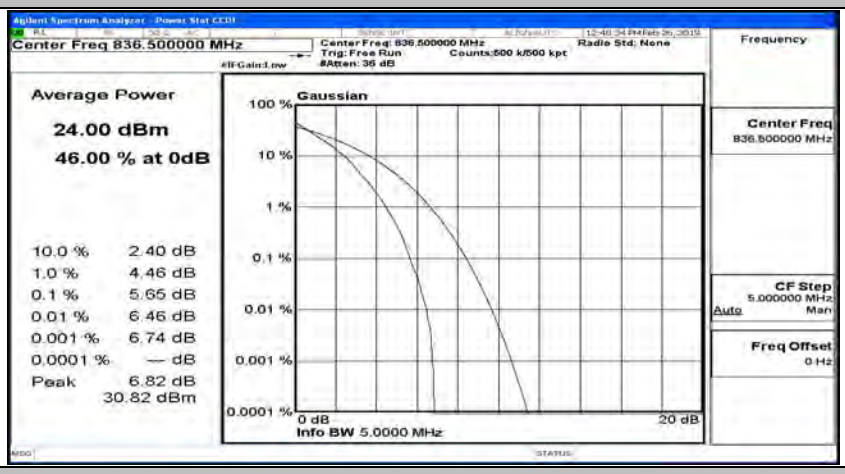

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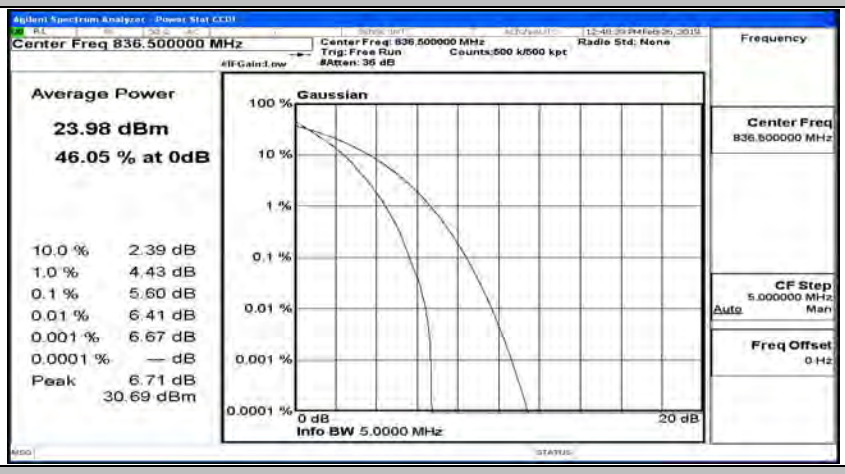

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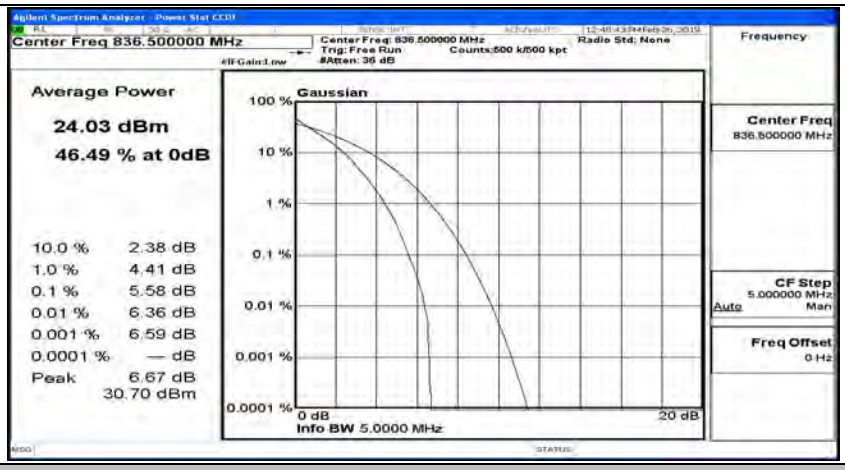

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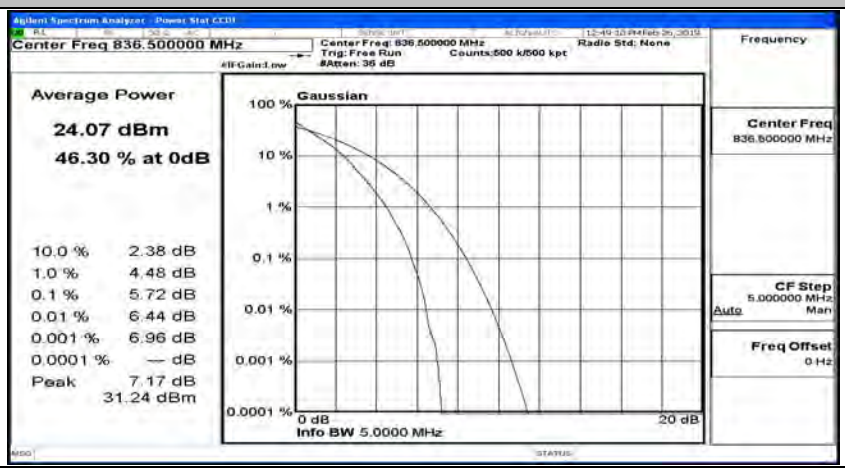

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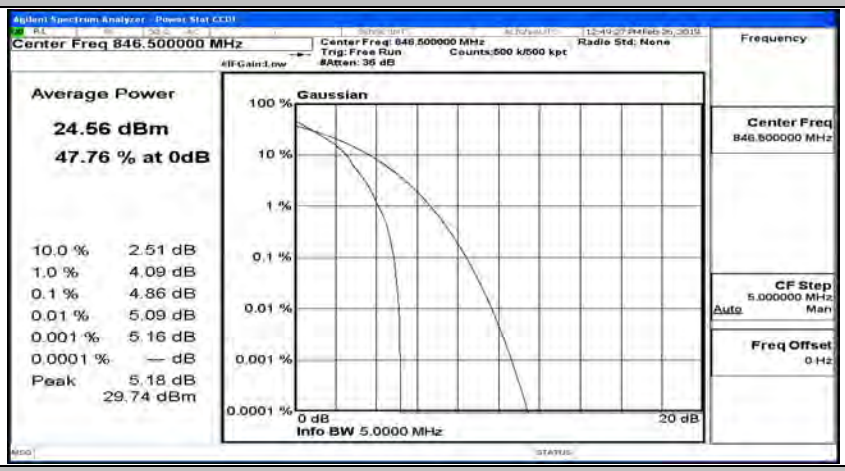

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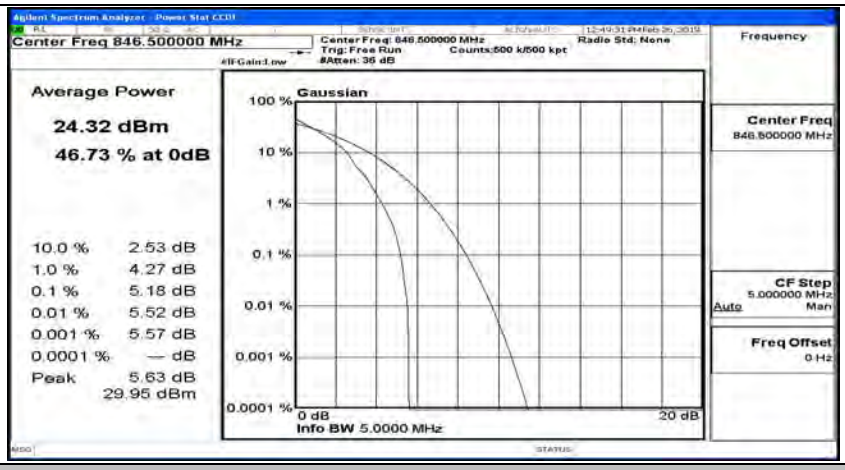

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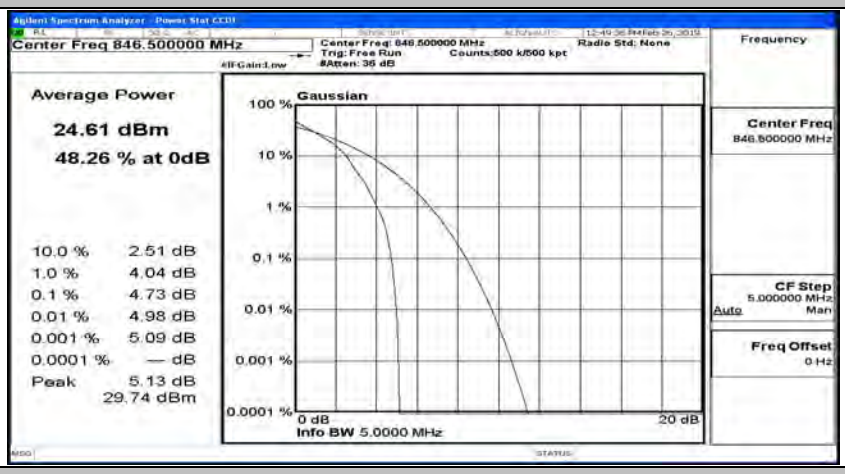

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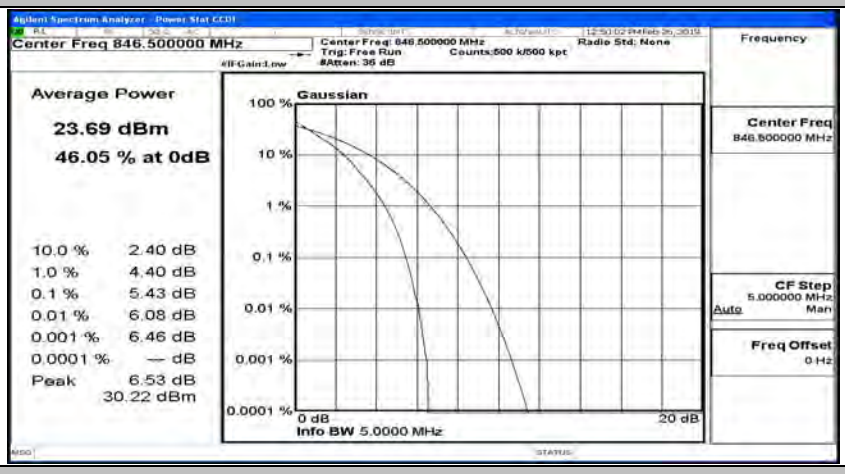

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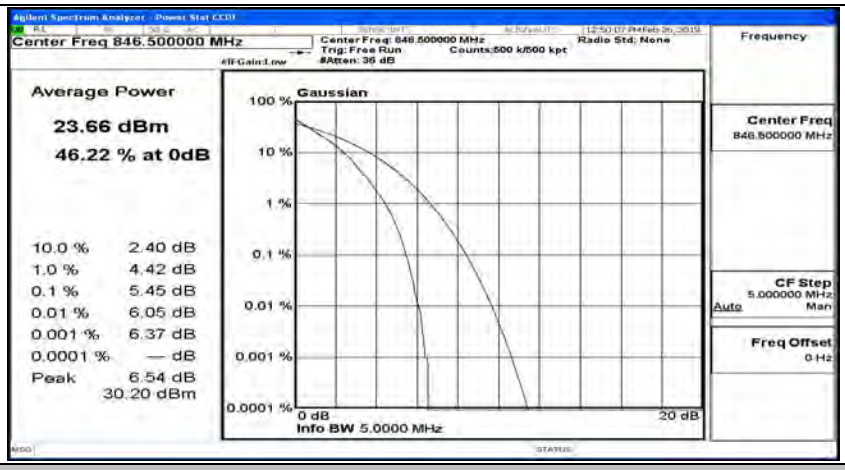

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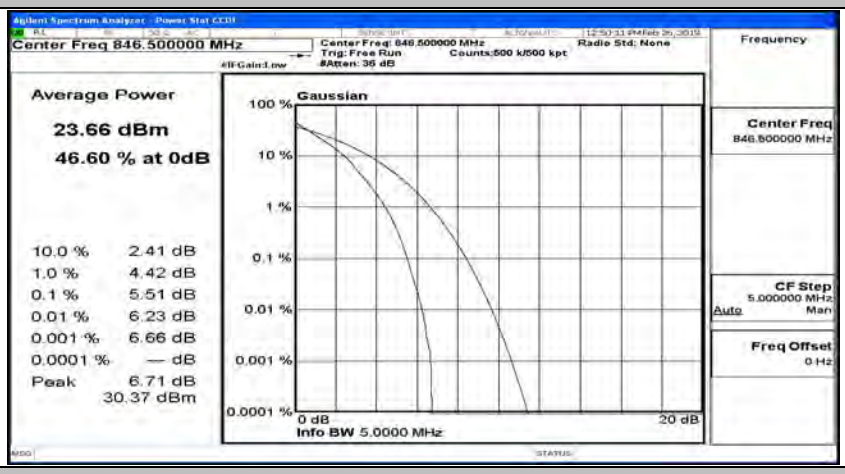

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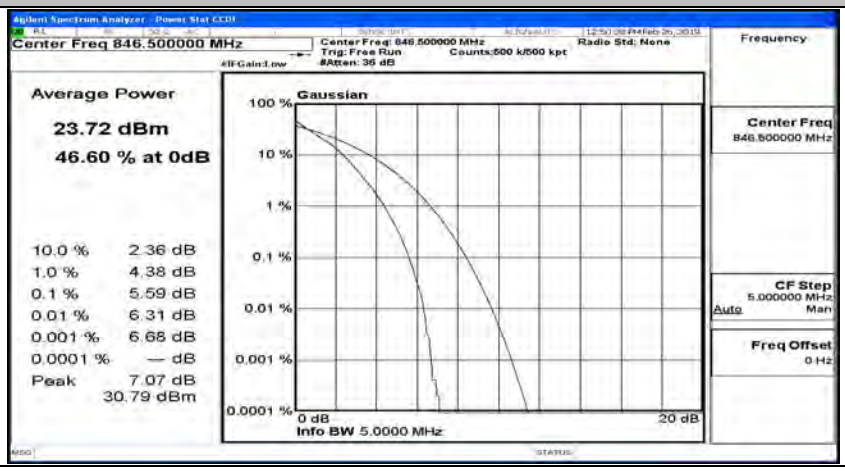

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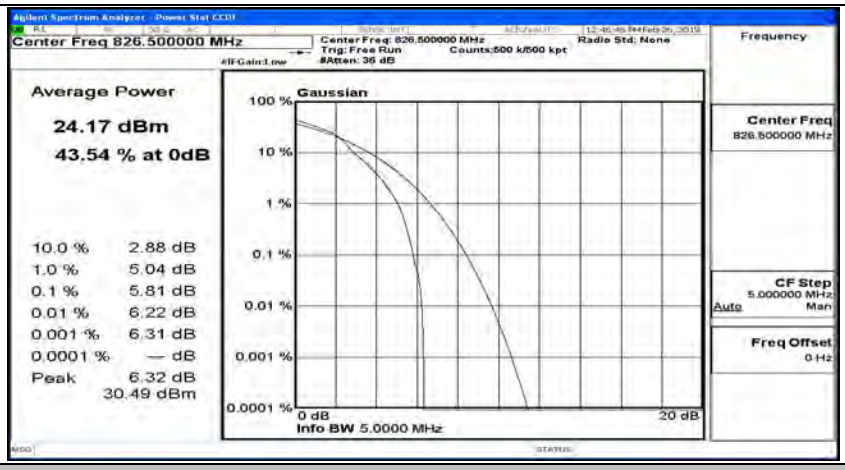

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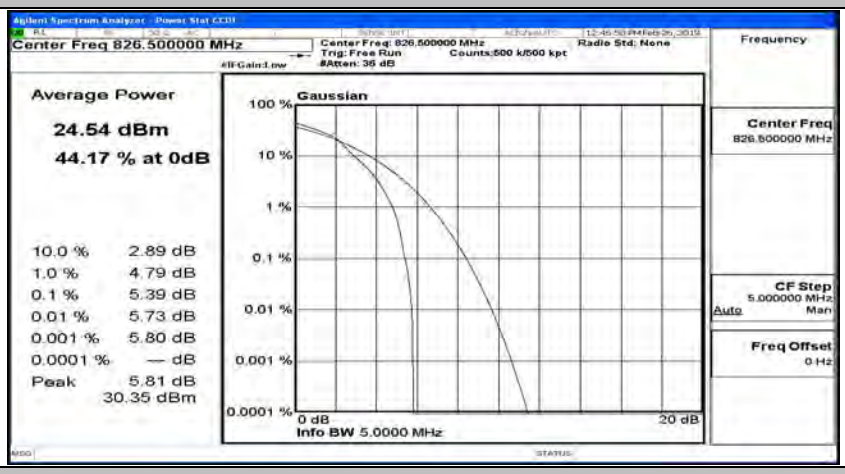

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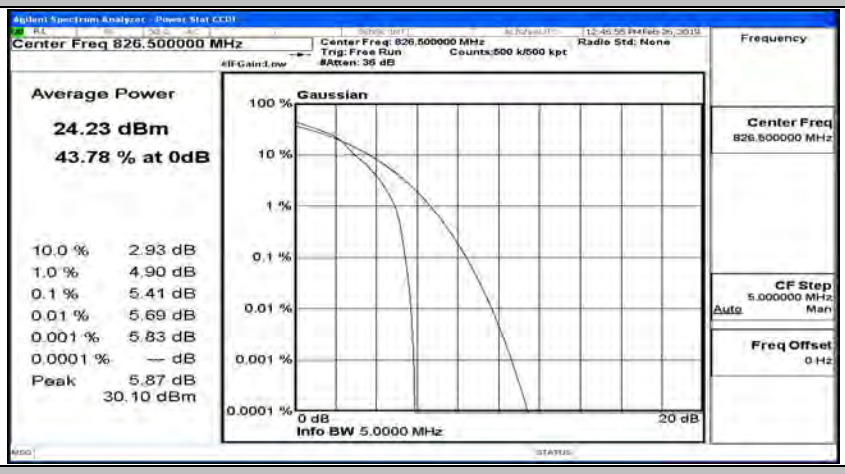

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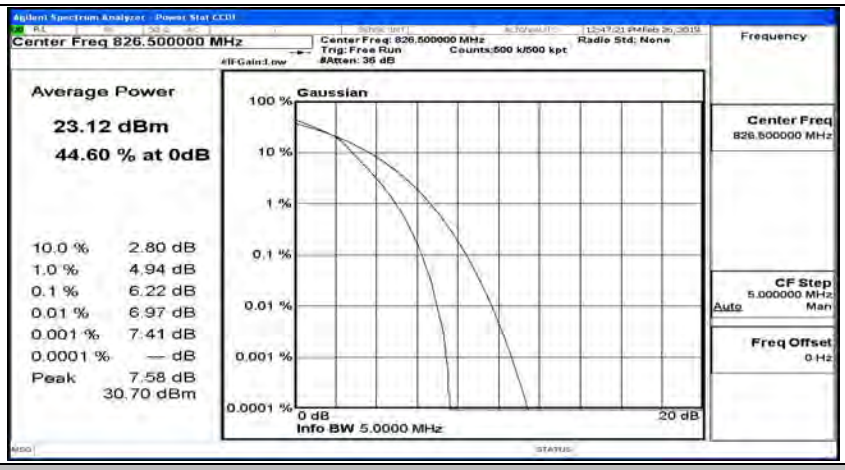

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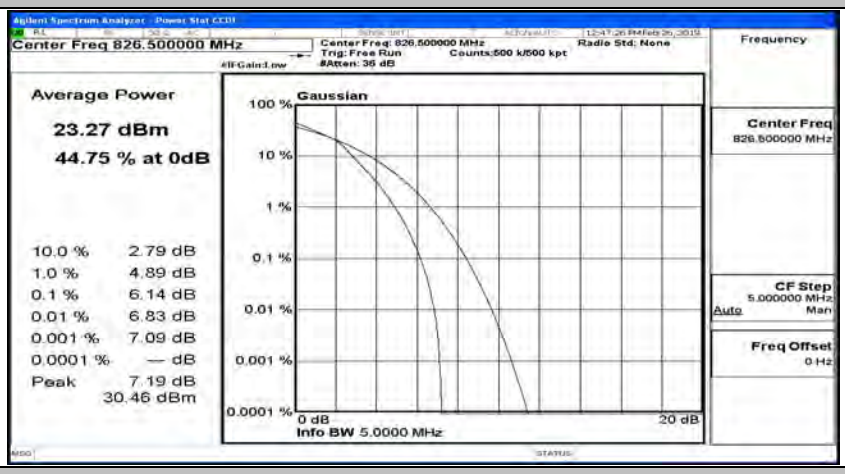

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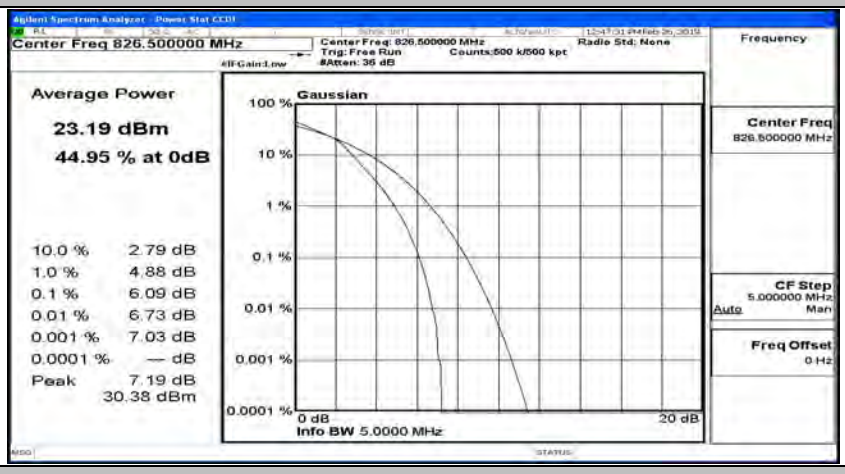
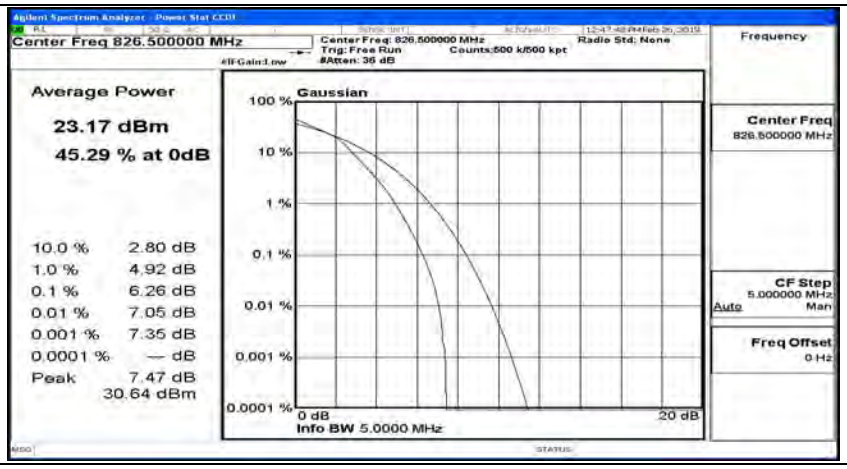


(Channel Bandwidth: 5 MHz)_LCH_16QAM_25RB#0



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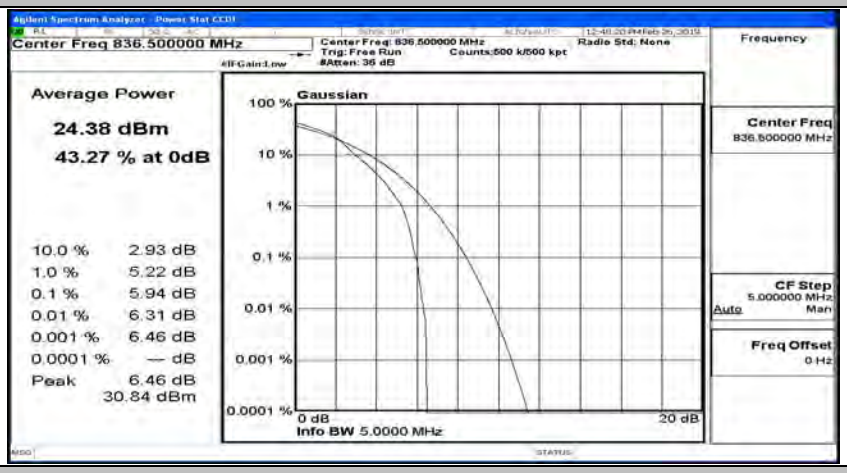
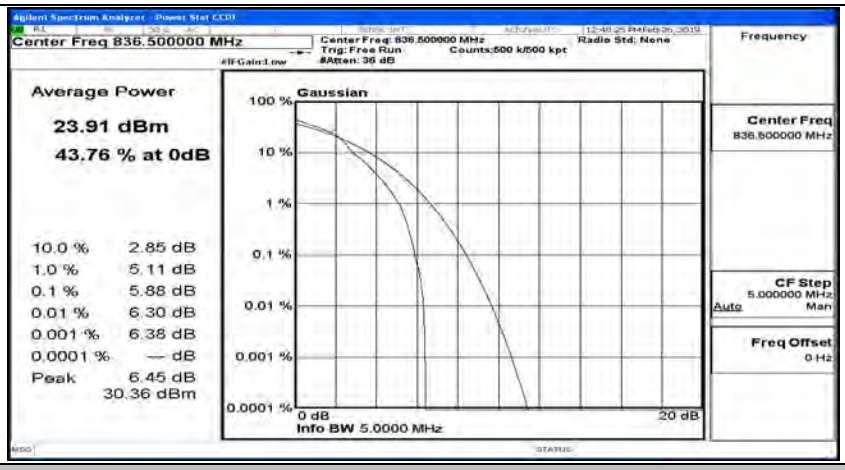
(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#12



(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#24



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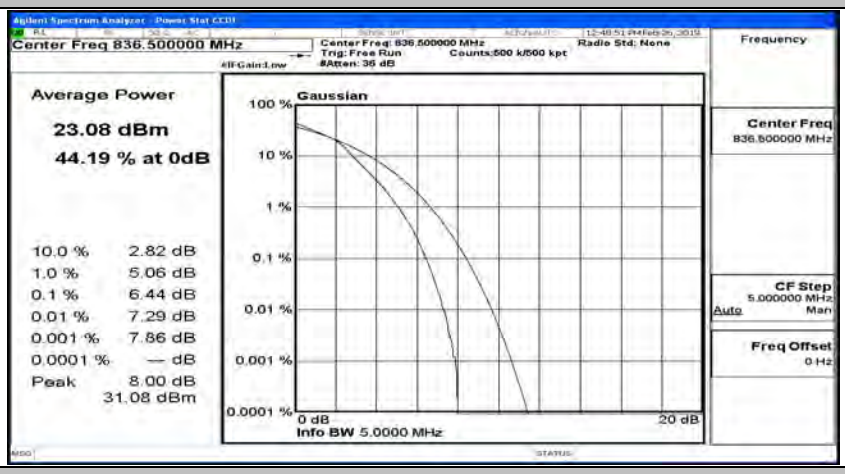

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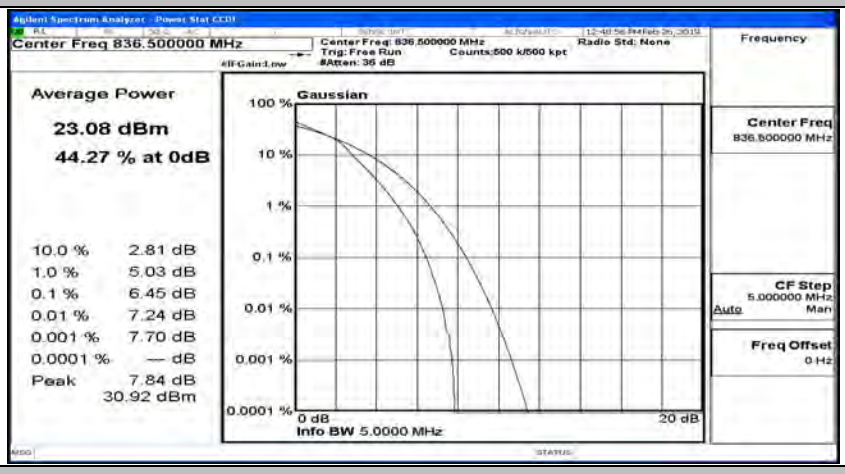
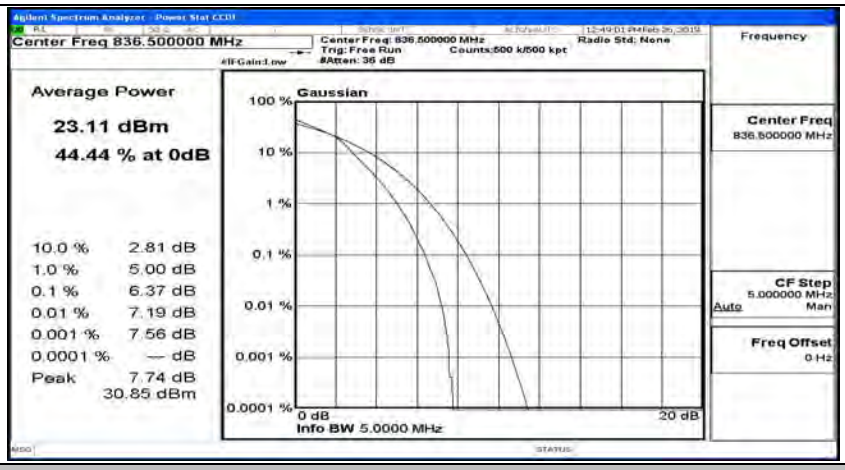
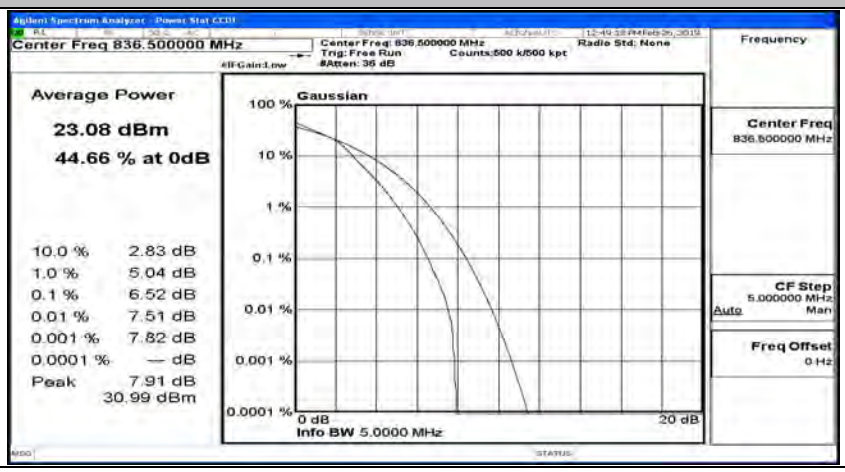


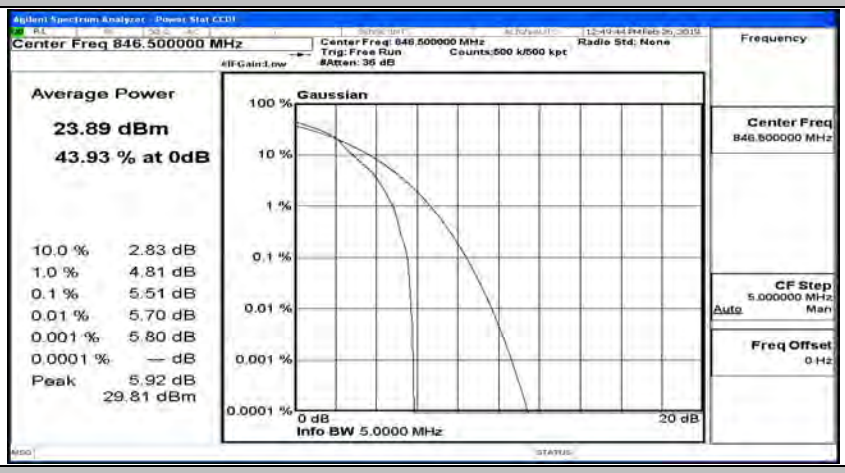
(Channel Bandwidth: 5 MHz)_MCH_16QAM_12RB#13



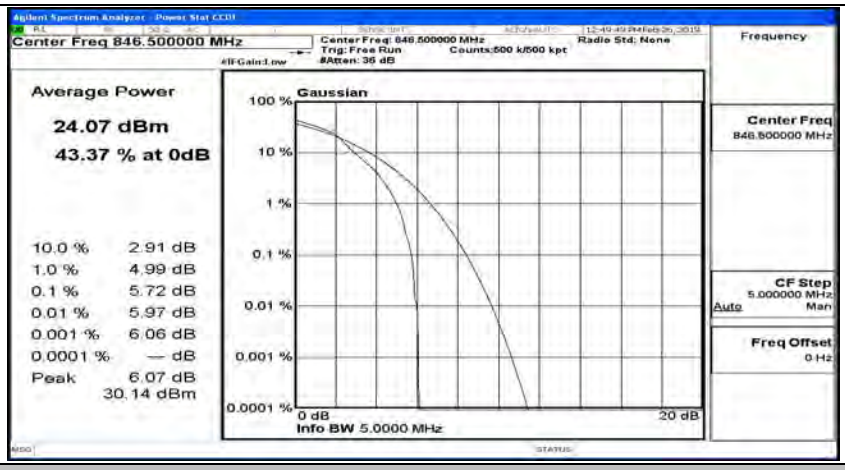
(Channel Bandwidth: 5 MHz)_MCH_16QAM_25RB#0



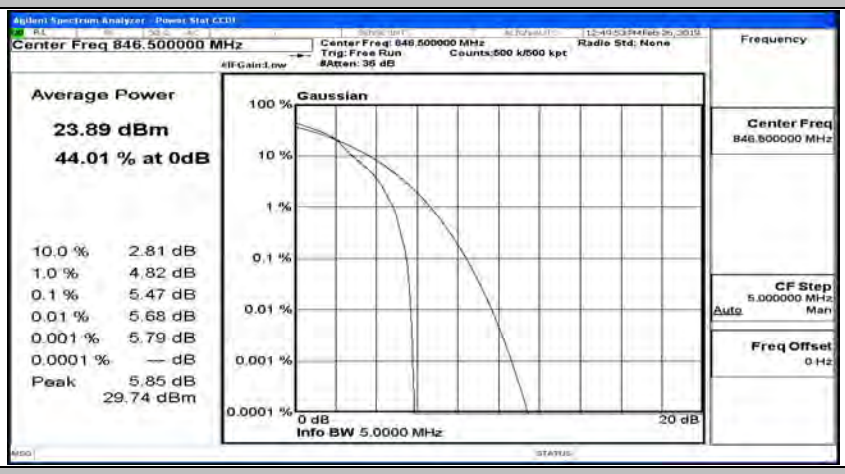
(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#0



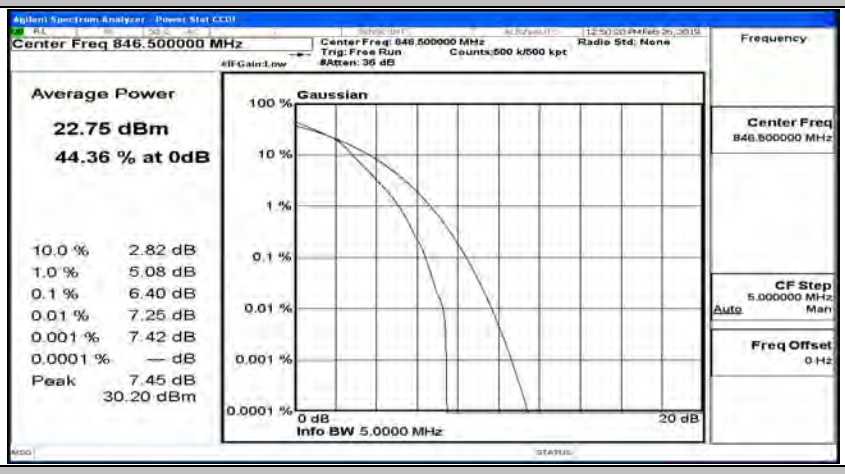
(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#12



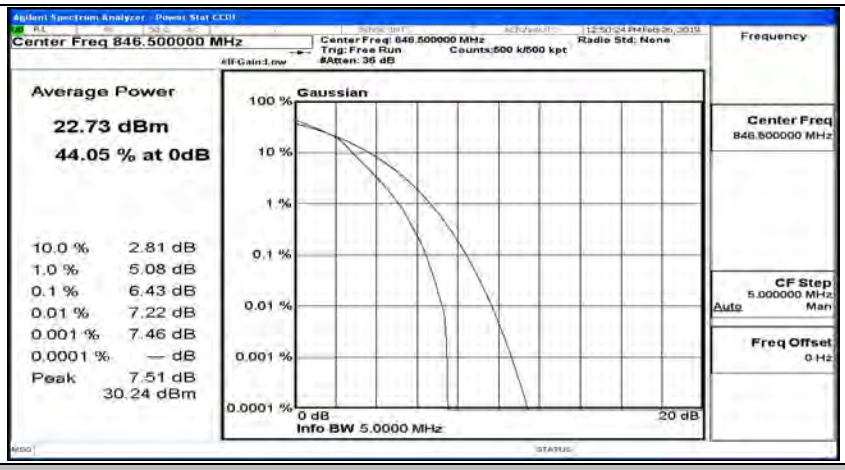
(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#24



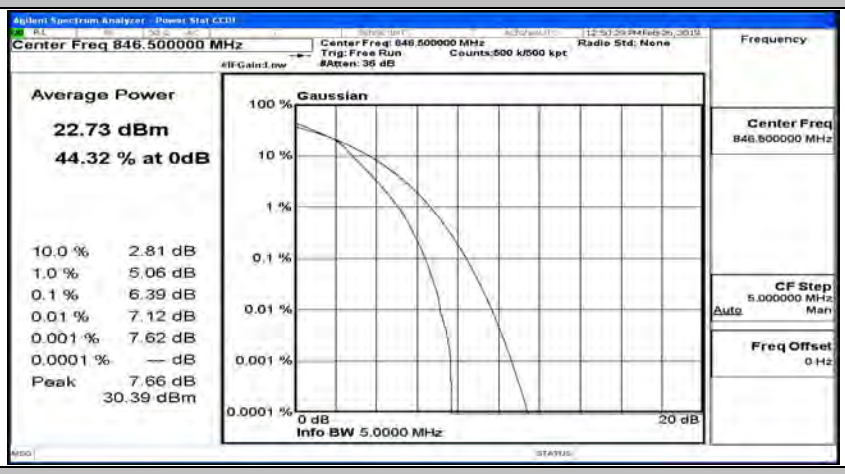
(Channel Bandwidth: 5 MHz)_HCH_16QAM_12RB#0



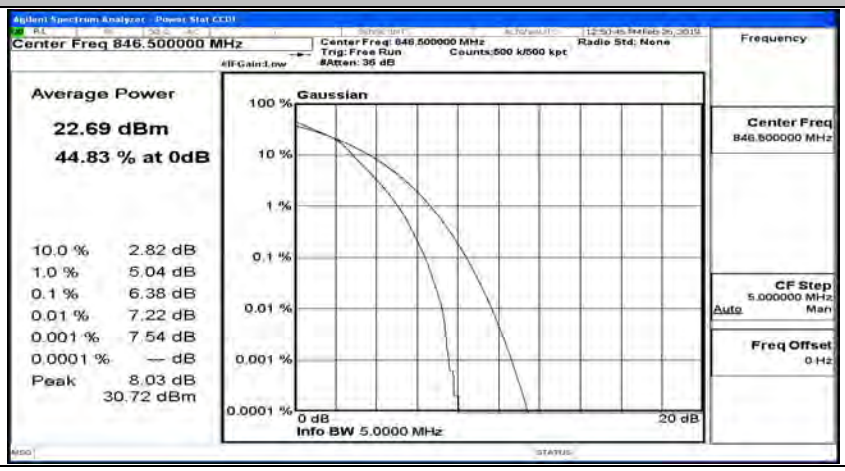
(Channel Bandwidth: 5 MHz)_HCH_16QAM_12RB#6



(Channel Bandwidth: 5 MHz)_HCH_16QAM_12RB#13

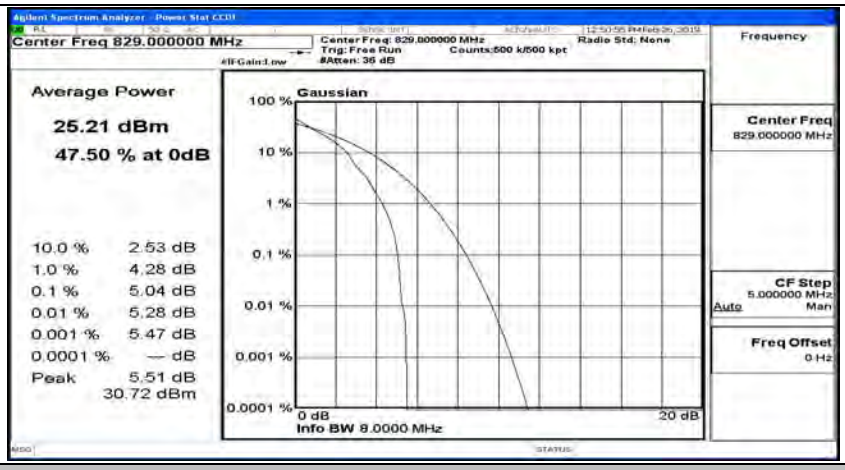


(Channel Bandwidth: 5 MHz)_HCH_16QAM_25RB#0

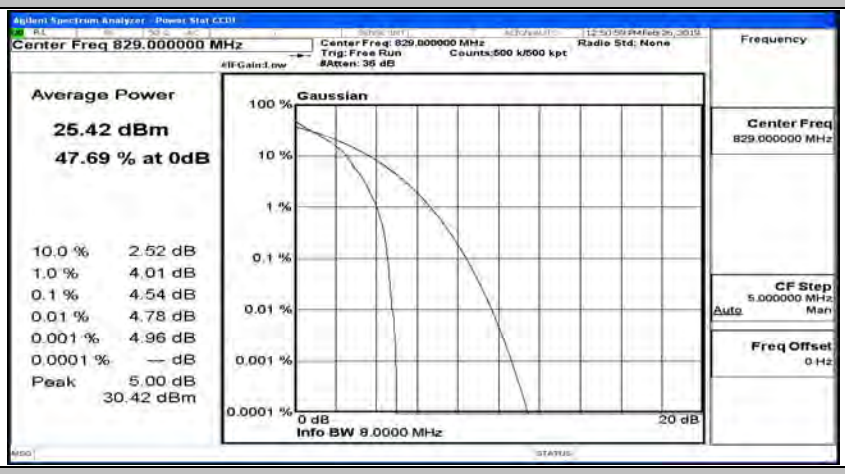


Channel Bandwidth: 10 MHz

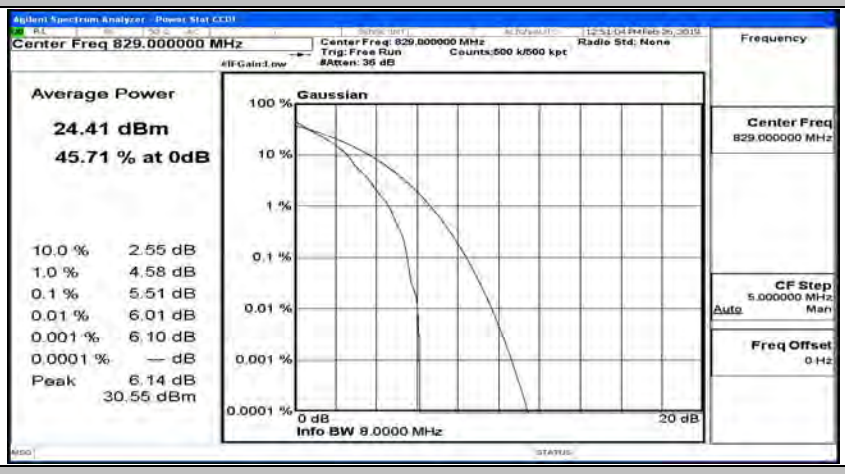
Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#0



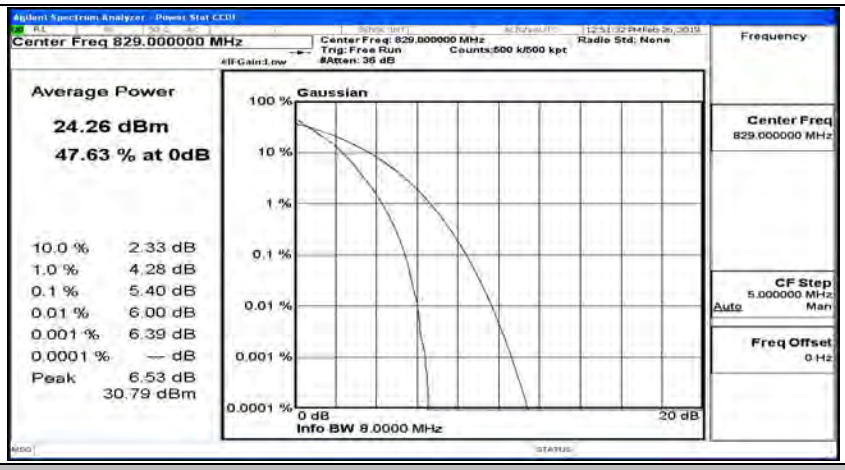
Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#24



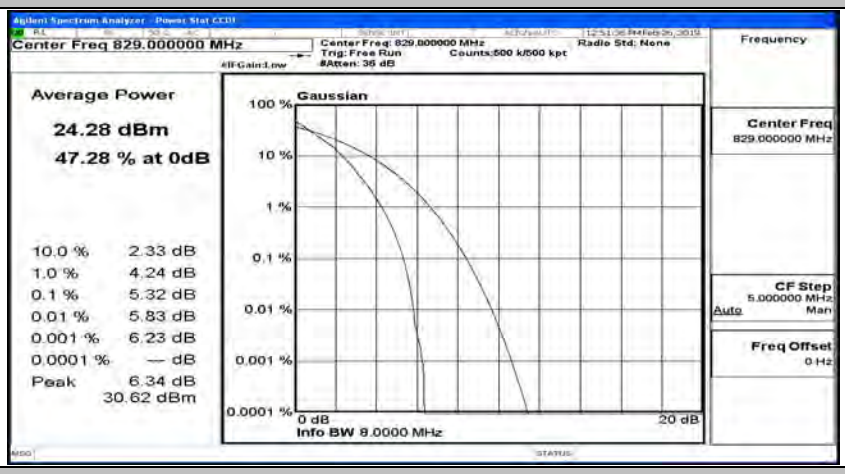
Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#49



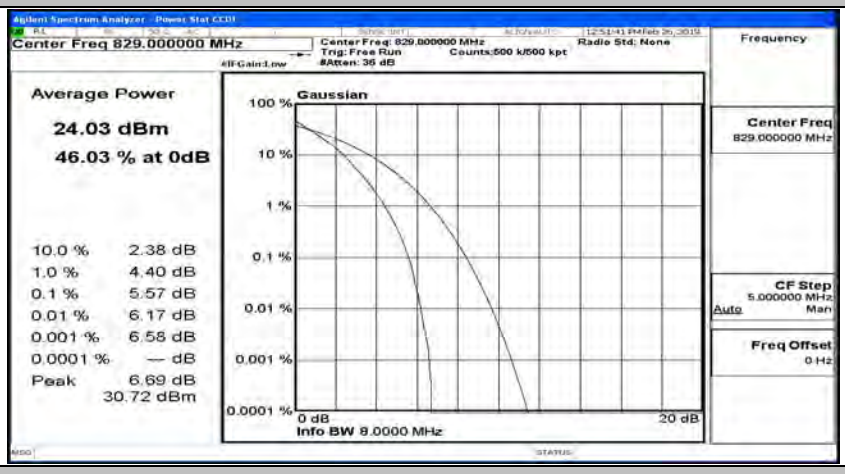
Channel Bandwidth: 10 MHz_LCH_QPSK_25RB#0



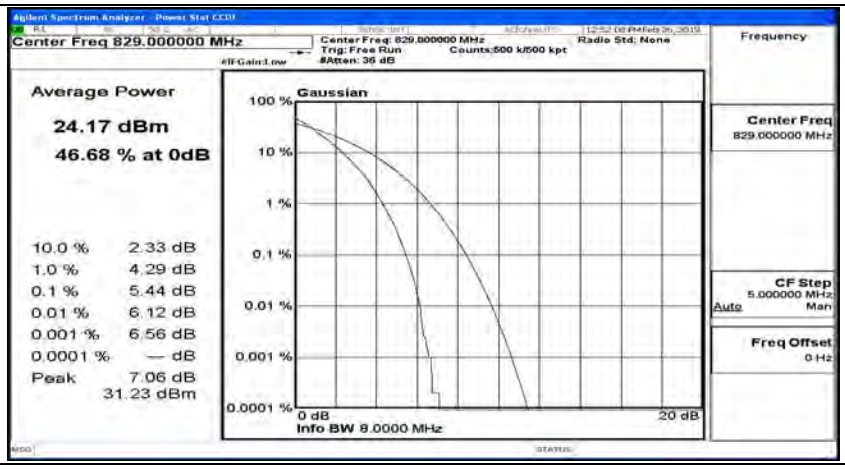
Channel Bandwidth: 10 MHz_LCH_QPSK_25RB#12



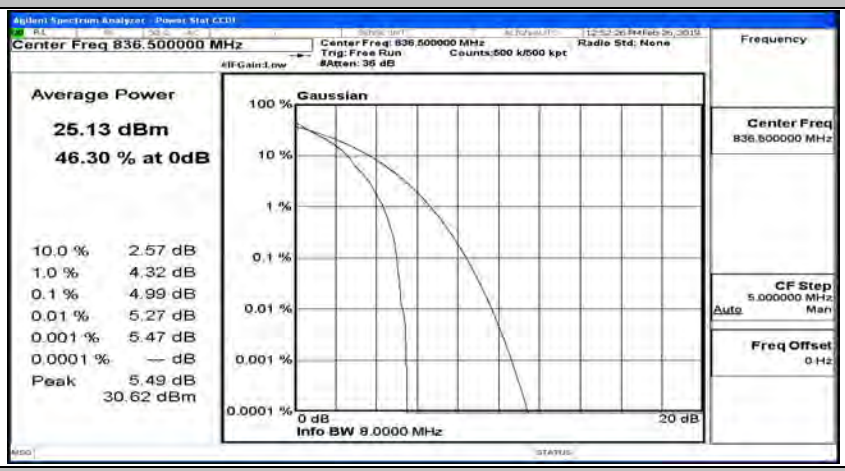
Channel Bandwidth: 10 MHz_LCH_QPSK_25RB#25



Channel Bandwidth: 10 MHz_LCH_QPSK_50RB#0

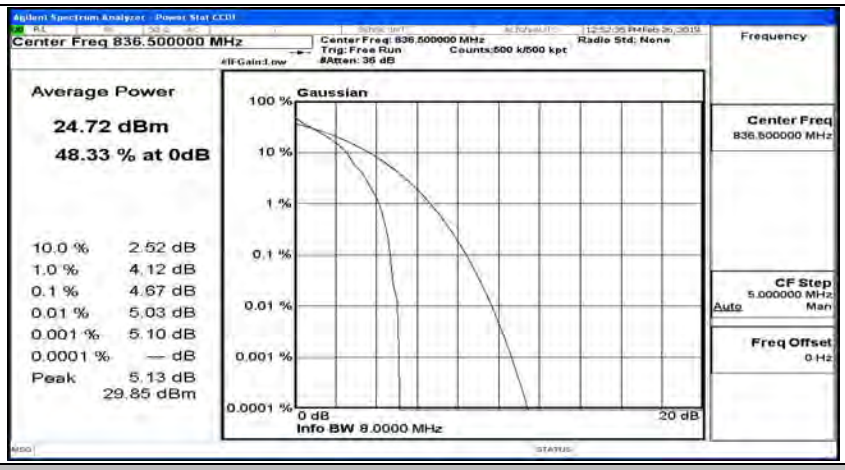


Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#0

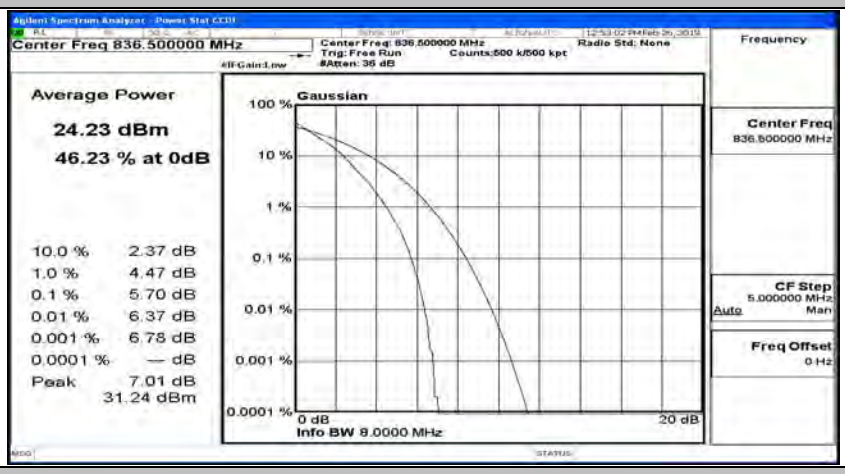


Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#24

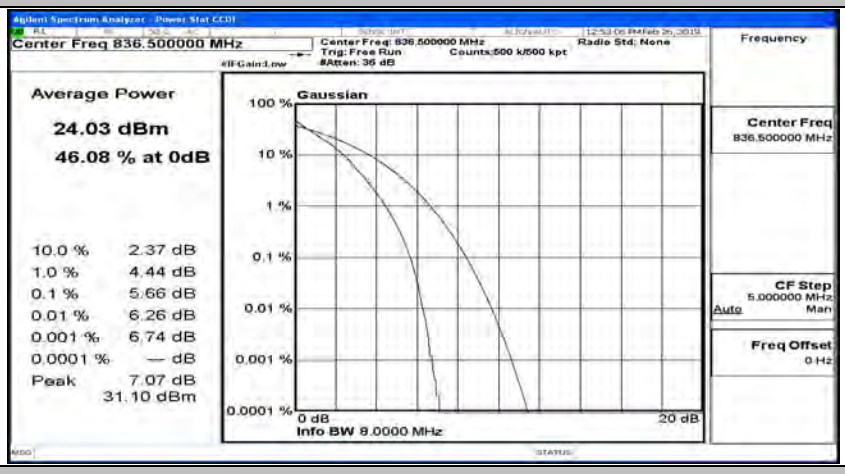
Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#49



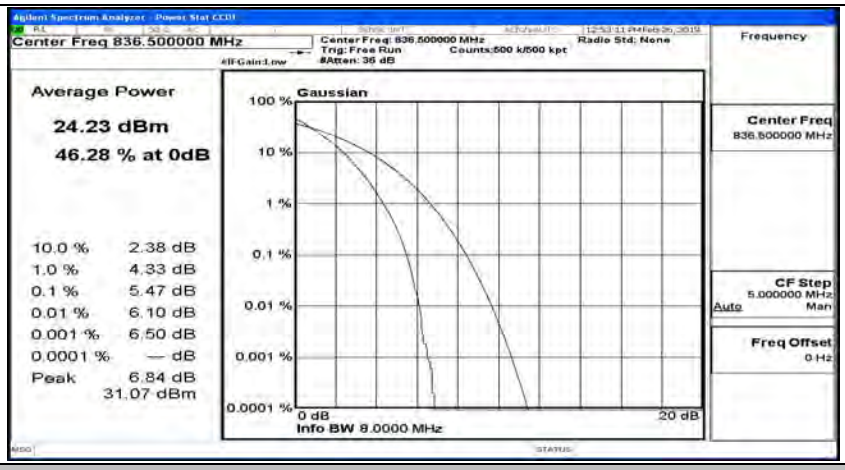
Channel Bandwidth: 10 MHz_MCH_QPSK_25RB#0



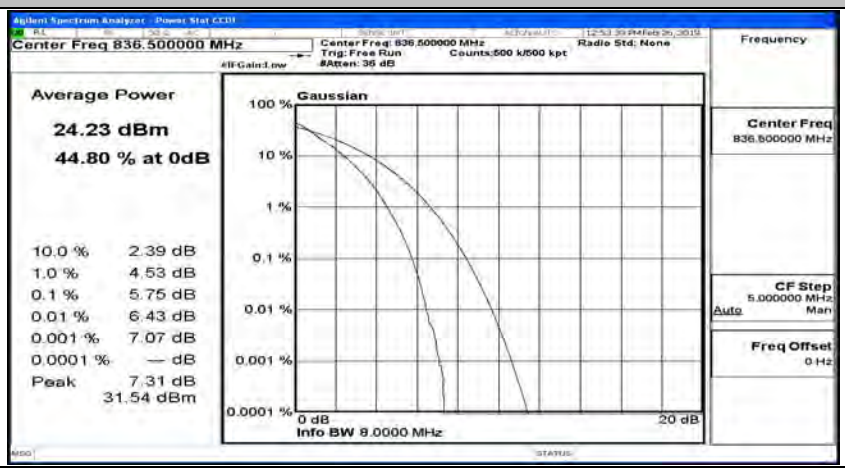
Channel Bandwidth: 10 MHz_MCH_QPSK_25RB#12



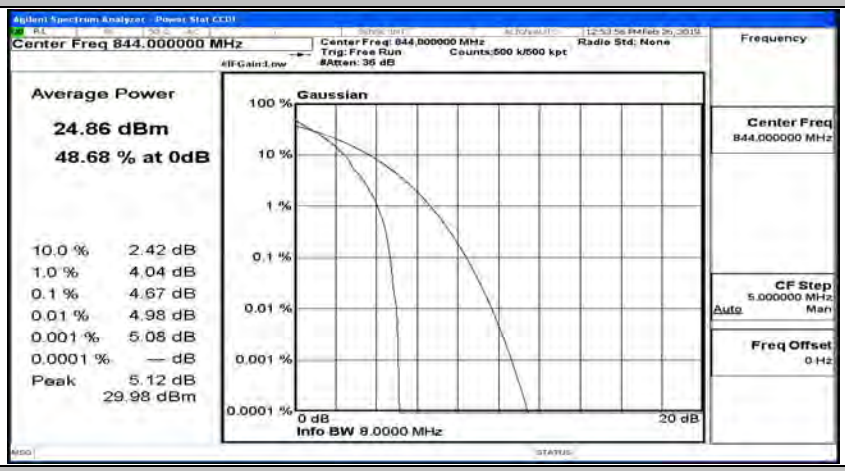
Channel Bandwidth: 10 MHz_MCH_QPSK_25RB#25



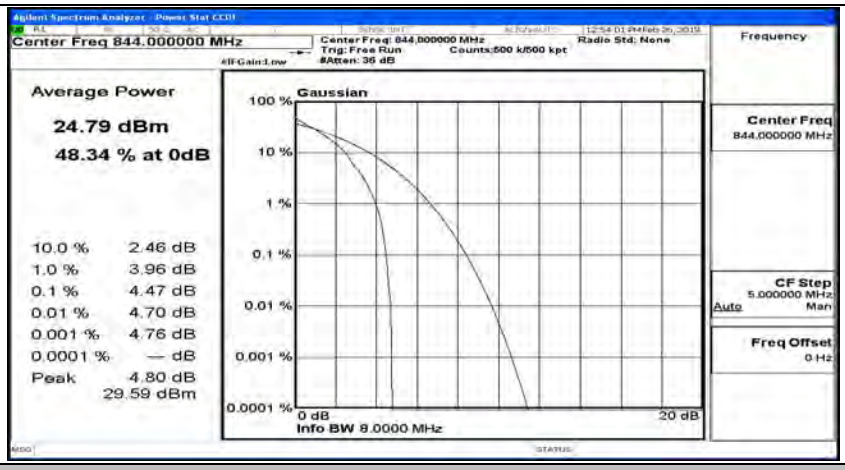
Channel Bandwidth: 10 MHz_MCH_QPSK_50RB#0



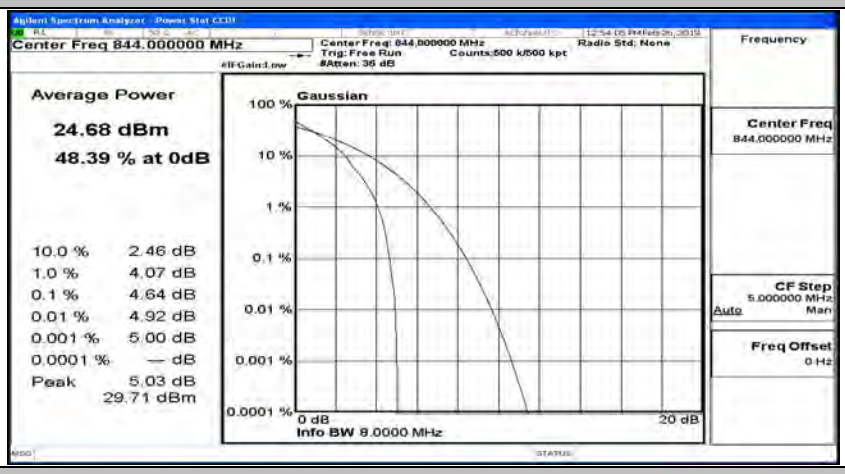
Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#0



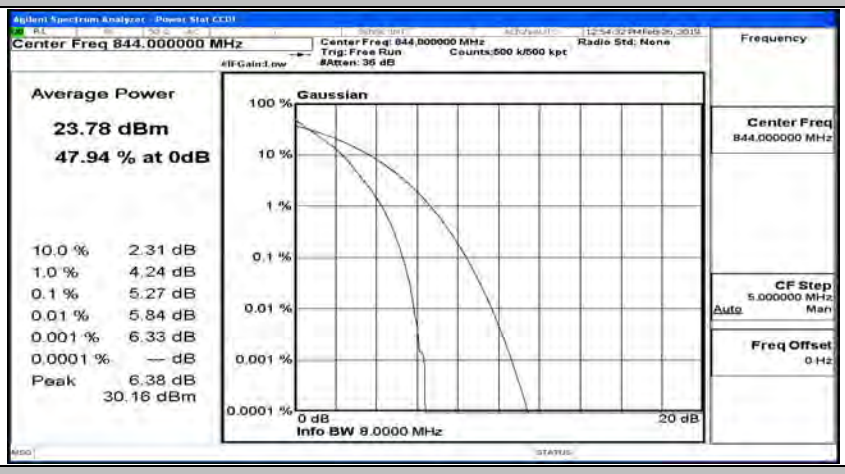
Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#24



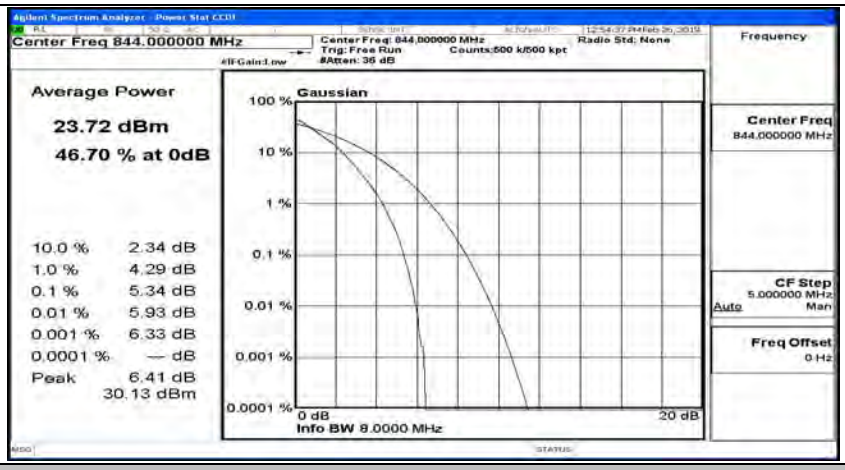
Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#49



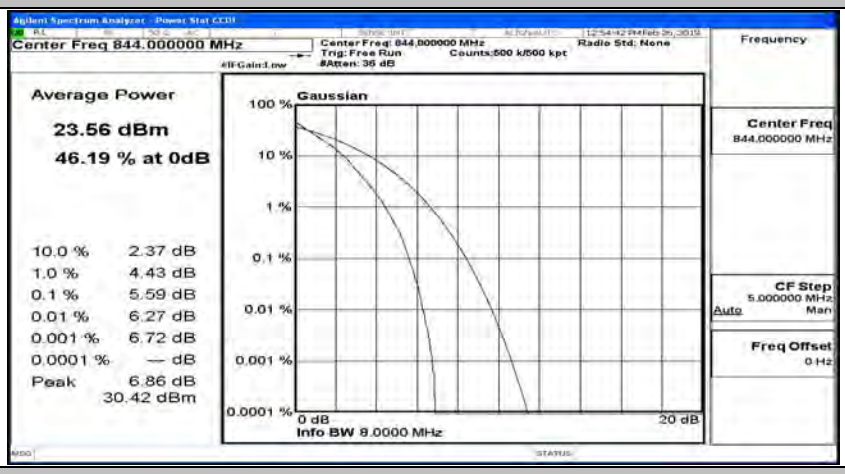
Channel Bandwidth: 10 MHz_HCH_QPSK_25RB#0



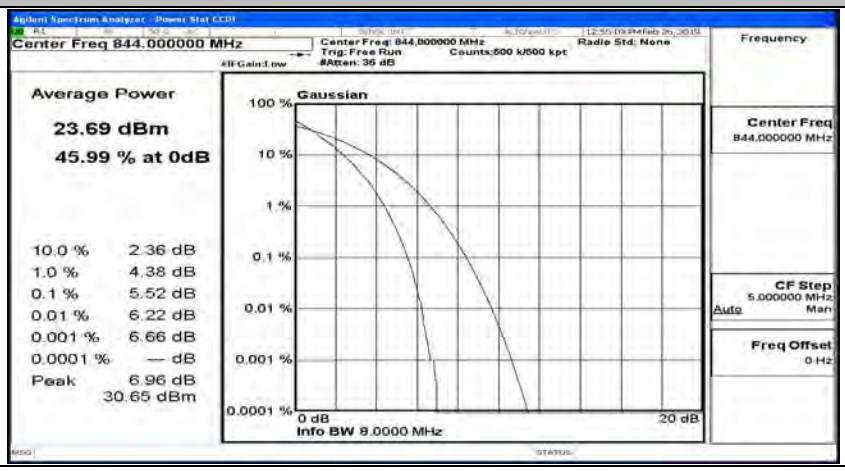
Channel Bandwidth: 10 MHz_HCH_QPSK_25RB#12



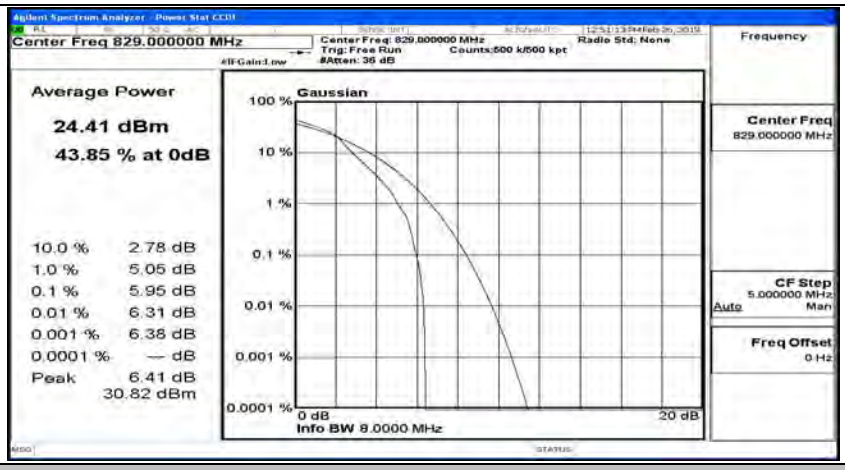
Channel Bandwidth: 10 MHz_HCH_QPSK_25RB#25



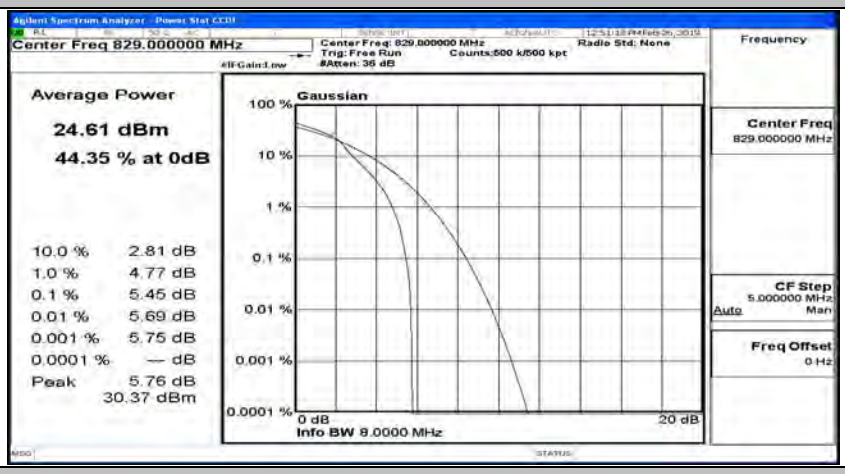
Channel Bandwidth: 10 MHz_HCH_QPSK_50RB#0



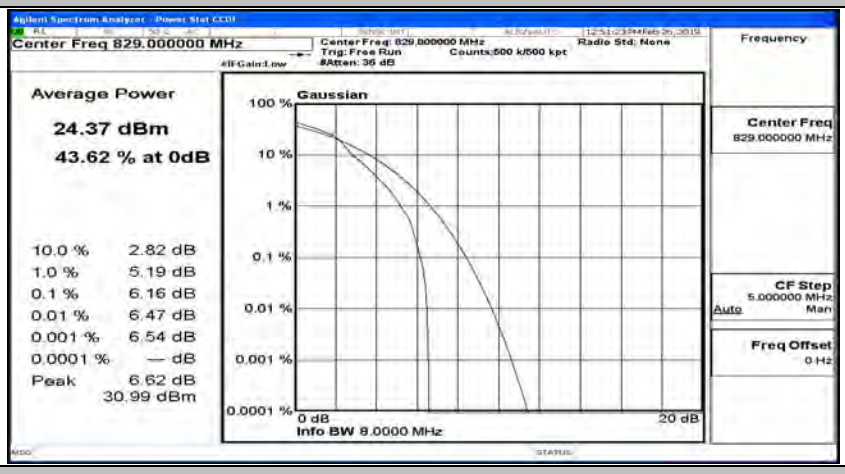
Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#0



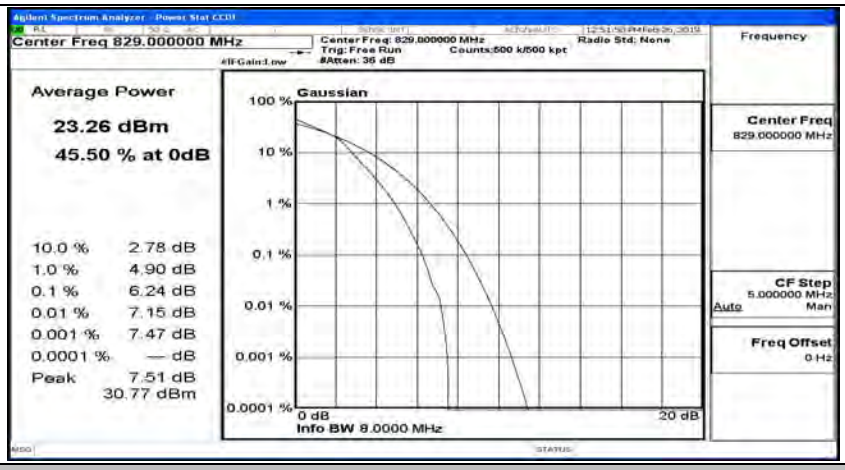
Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#24



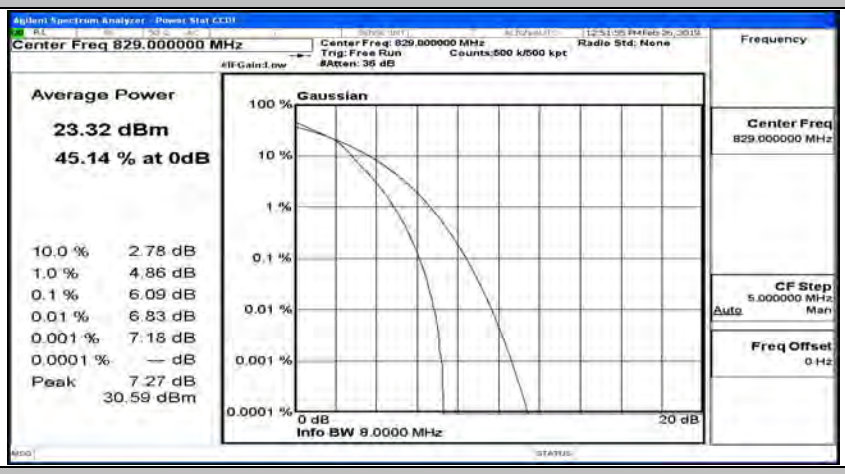
Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#49



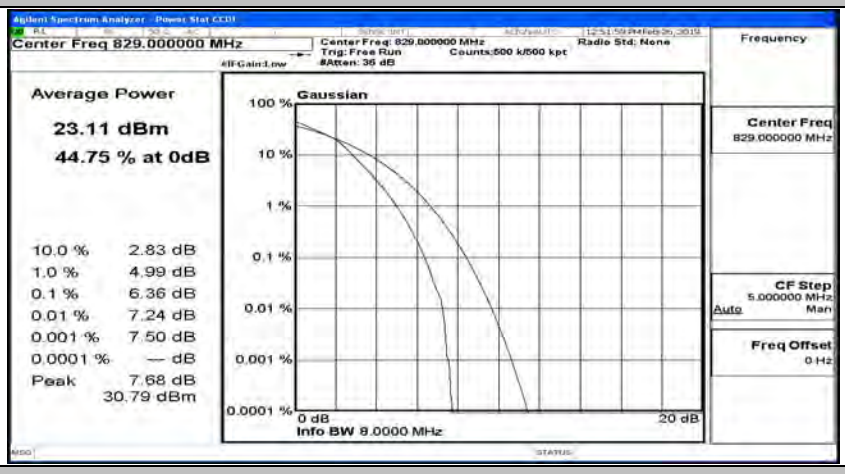
Channel Bandwidth: 10 MHz_LCH_16QAM_25RB#0



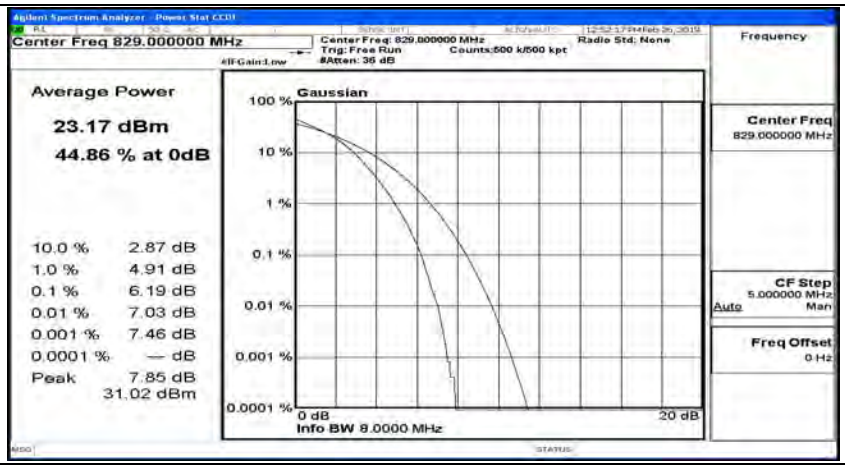
Channel Bandwidth: 10 MHz_LCH_16QAM_25RB#12



Channel Bandwidth: 10 MHz_LCH_16QAM_25RB#25

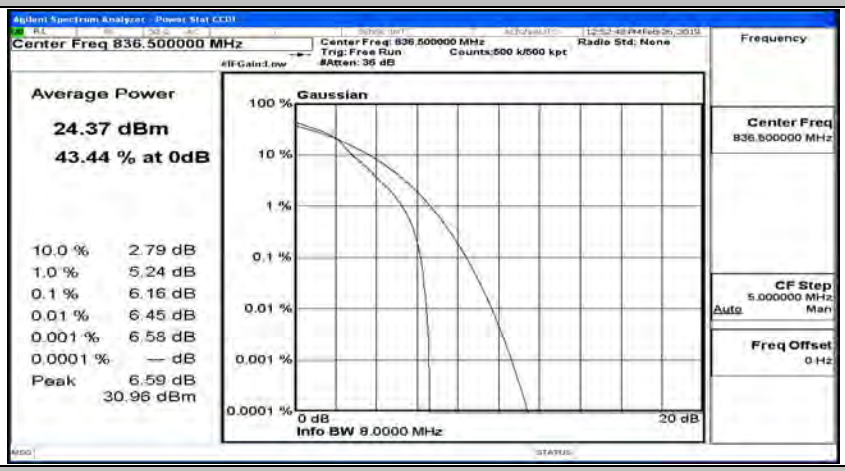


Channel Bandwidth: 10 MHz_LCH_16QAM_50RB#0

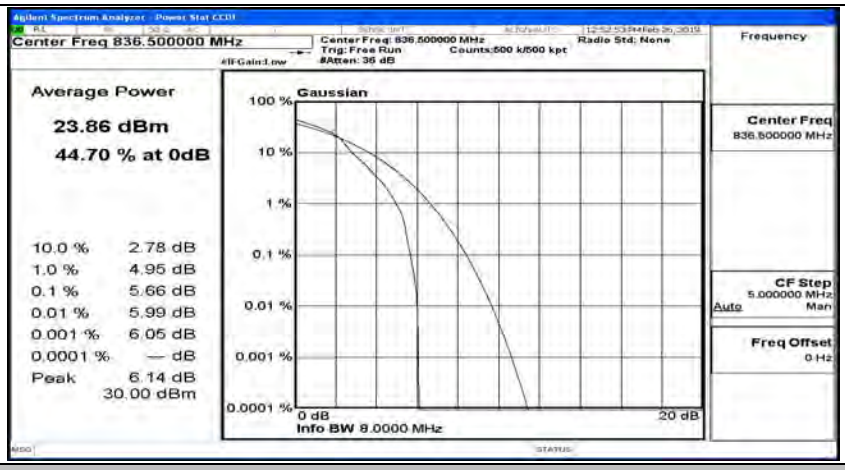


Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#0

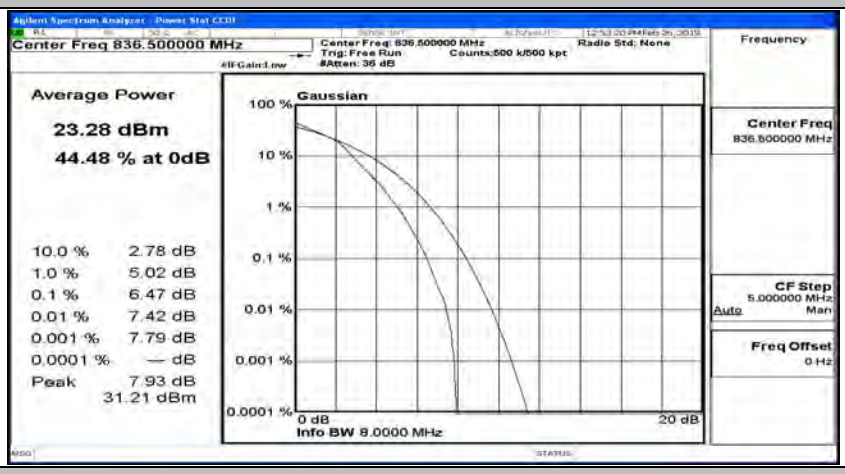
Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#24



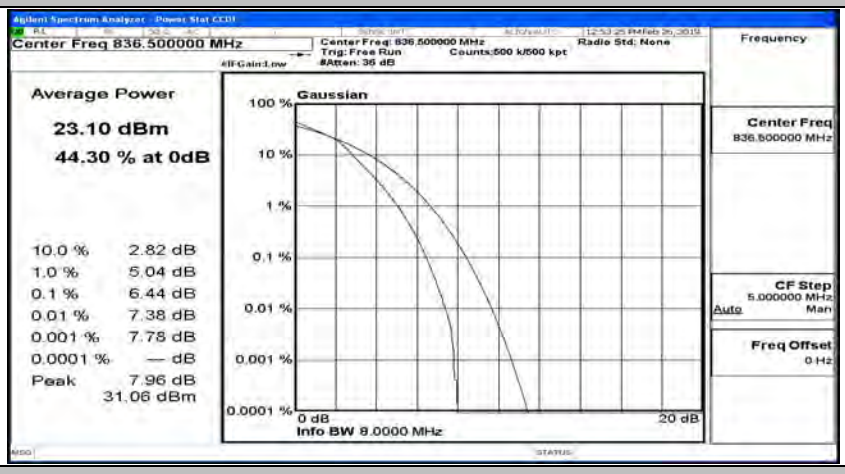
Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#49



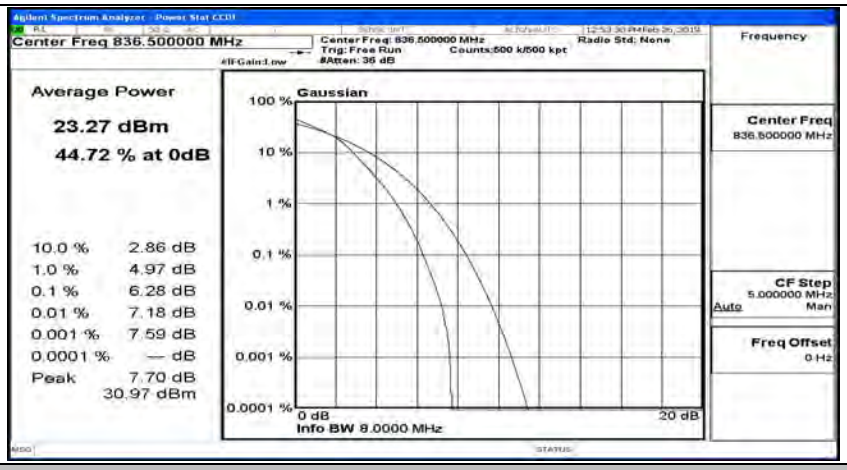
Channel Bandwidth: 10 MHz_MCH_16QAM_25RB#0



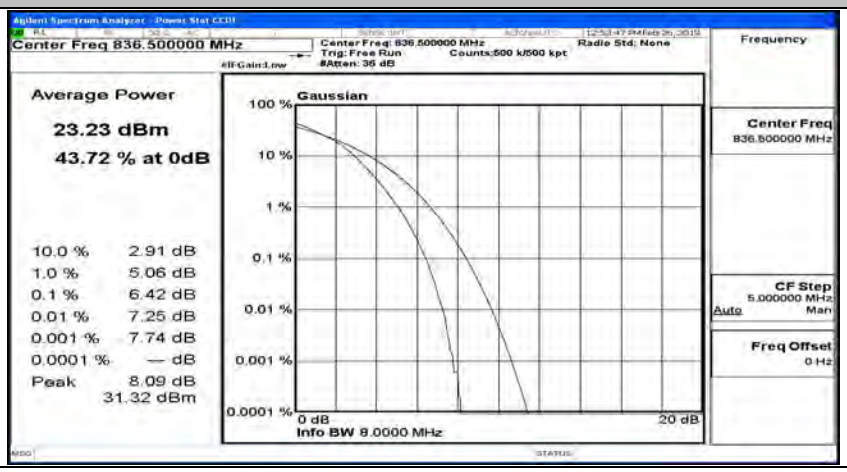
Channel Bandwidth: 10 MHz_MCH_16QAM_25RB#12



Channel Bandwidth: 10 MHz_MCH_16QAM_25RB#25

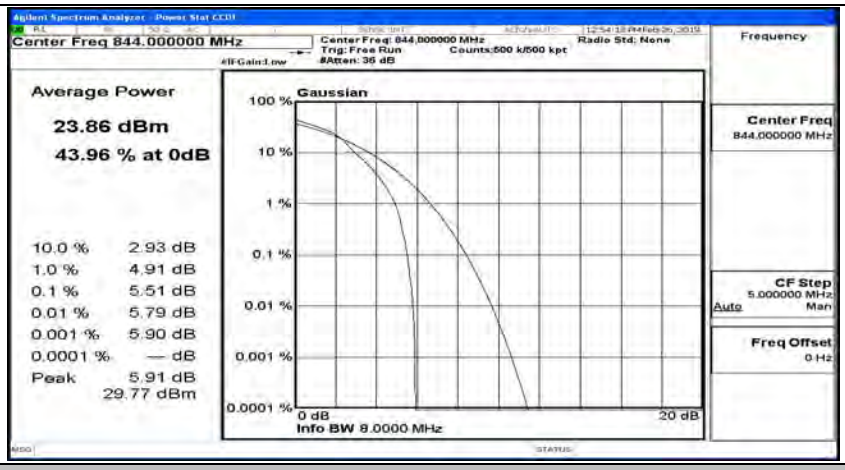


Channel Bandwidth: 10 MHz_MCH_16QAM_50RB#0

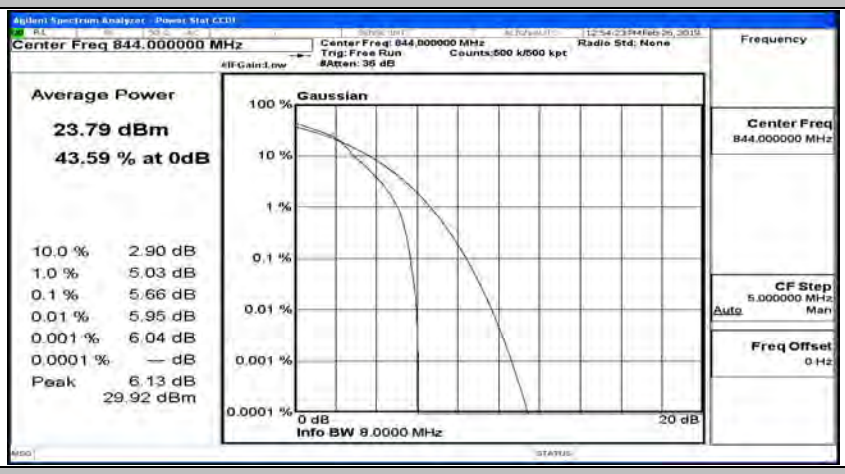


Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#0

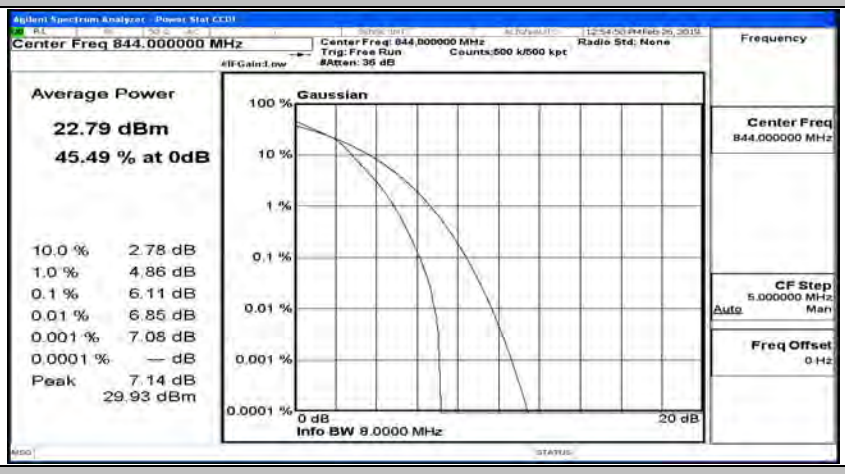
Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#24



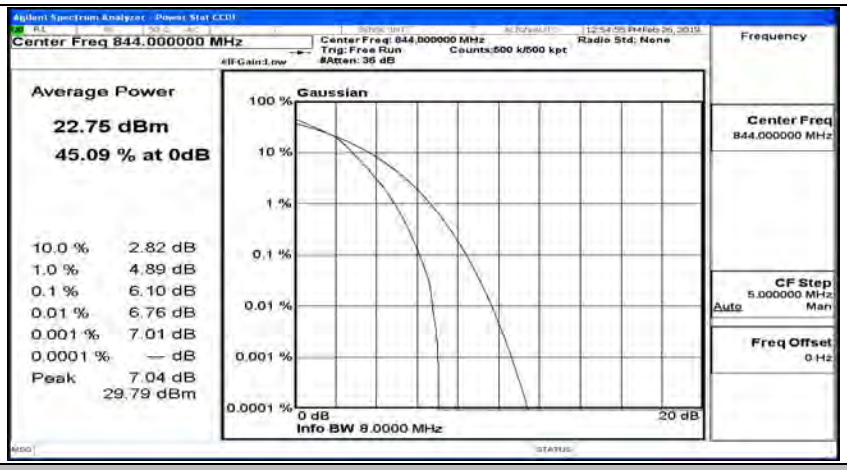
Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#49



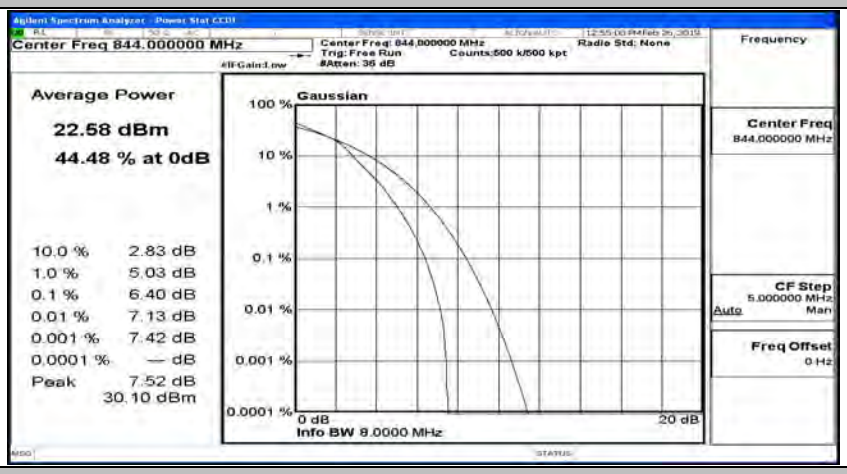
Channel Bandwidth: 10 MHz_HCH_16QAM_25RB#0



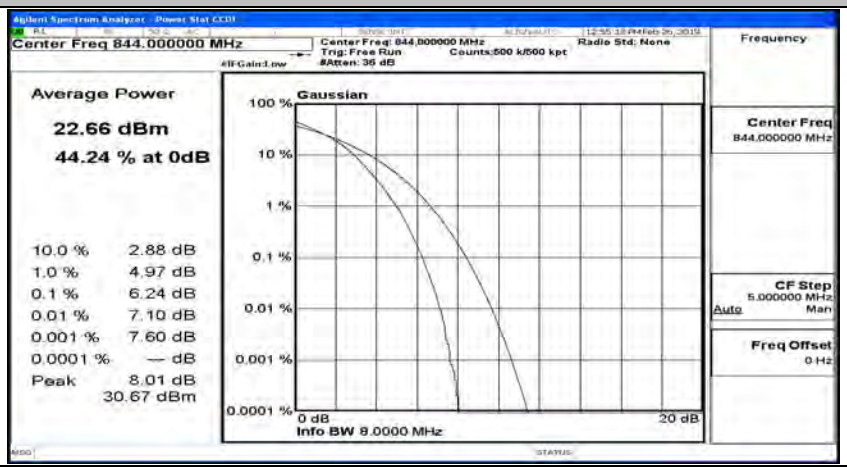
Channel Bandwidth: 10 MHz_HCH_16QAM_25RB#12



Channel Bandwidth: 10 MHz_HCH_16QAM_25RB#25



Channel Bandwidth: 10 MHz_HCH_16QAM_50RB#0



H.3 26dB Bandwidth and Occupied Bandwidth

Test Result

Channel Bandwidth: 1.4 MHz

Channel Bandwidth: 1.4 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	1	0	0.22674	0.3599	PASS
		1	3	0.23141	0.3706	PASS
		1	5	0.22900	0.3559	PASS
		3	0	0.55014	0.7374	PASS
		3	2	0.54952	0.7104	PASS
		3	3	0.55171	0.7225	PASS
		6	0	1.0749	1.205	PASS
	MCH	1	0	0.22879	0.3483	PASS
		1	3	0.21902	0.3502	PASS
		1	5	0.22165	0.3505	PASS
		3	0	0.55115	0.6892	PASS
		3	2	0.54867	0.6859	PASS
		3	3	0.54843	0.7278	PASS
		6	0	1.0756	1.223	PASS
	HCH	1	0	0.22639	0.3530	PASS
		1	3	0.22502	0.3348	PASS
		1	5	0.22348	0.3640	PASS
		3	0	0.55234	0.7143	PASS
		3	2	0.54825	0.7051	PASS
		3	3	0.55054	0.7191	PASS
		6	0	1.0758	1.236	PASS
16QAM	LCH	1	0	0.22129	0.3475	PASS
		1	3	0.22932	0.3667	PASS
		1	5	0.23041	0.3486	PASS
		3	0	0.55494	0.7273	PASS
		3	2	0.55615	0.7220	PASS
		3	3	0.55745	0.7677	PASS
		6	0	1.0770	1.233	PASS
	MCH	1	0	0.23259	0.3543	PASS
		1	3	0.22496	0.3540	PASS
		1	5	0.23697	0.3681	PASS

		3	0	0.55425	0.7270	PASS
		3	2	0.55263	0.7222	PASS
		3	3	0.55422	0.7224	PASS
		6	0	1.0785	1.235	PASS
	HCH	1	0	0.23659	0.3717	PASS
		1	3	0.22385	0.3467	PASS
		1	5	0.23772	0.3774	PASS
		3	0	0.55209	0.7435	PASS
		3	2	0.55449	0.7114	PASS
		3	3	0.55569	0.7464	PASS
		6	0	1.0804	1.225	PASS

Channel Bandwidth: 3 MHz

Channel Bandwidth: 3 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	1	0	0.26318	0.4290	PASS
		1	7	0.26516	0.4372	PASS
		1	14	0.26415	0.4297	PASS
		8	0	1.4460	1.646	PASS
		8	4	1.4473	1.692	PASS
		8	7	1.4436	1.632	PASS
		15	0	2.6802	2.834	PASS
	MCH	1	0	0.25750	0.3968	PASS
		1	7	0.26685	0.4335	PASS
		1	14	0.26542	0.4010	PASS
		8	0	1.4445	1.649	PASS
		8	4	1.4476	1.712	PASS
		8	7	1.4455	1.607	PASS
		15	0	2.6802	2.832	PASS
	HCH	1	0	0.26024	0.4054	PASS
		1	7	0.26306	0.4358	PASS
		1	14	0.26799	0.4103	PASS
		8	0	1.4442	1.623	PASS
		8	4	1.4474	1.707	PASS
		8	7	1.4439	1.616	PASS
		15	0	2.6802	2.837	PASS
16QAM	LCH	1	0	0.26453	0.4118	PASS

		1	7	0.26789	0.4350	PASS
		1	14	0.26743	0.3695	PASS
		8	0	1.4450	1.655	PASS
		8	4	1.4482	1.712	PASS
		8	7	1.4419	1.635	PASS
		15	0	2.6787	2.826	PASS
	MCH	1	0	0.26249	0.4067	PASS
		1	7	0.26328	0.4310	PASS
		1	14	0.26004	0.3794	PASS
		8	0	1.4423	1.635	PASS
		8	4	1.4456	1.710	PASS
		8	7	1.4463	1.645	PASS
		15	0	2.6797	2.822	PASS
	HCH	1	0	0.26420	0.4179	PASS
		1	7	0.26593	0.4357	PASS
		1	14	0.26397	0.3863	PASS
		8	0	1.4444	1.657	PASS
		8	4	1.4478	1.718	PASS
		8	7	1.4415	1.673	PASS
		15	0	2.6769	2.816	PASS

Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	1	0	0.34039	0.5603	PASS
		1	12	0.34206	0.5691	PASS
		1	24	0.33886	0.5659	PASS
		12	0	2.1764	2.564	PASS
		12	6	2.1829	2.637	PASS
		12	13	2.1800	2.552	PASS
		25	0	4.4721	4.841	PASS
	MCH	1	0	0.34277	0.5538	PASS
		1	12	0.33965	0.5404	PASS
		1	24	0.32534	0.4963	PASS
		12	0	2.1813	2.595	PASS
		12	6	2.1782	2.546	PASS
		12	13	2.1764	2.522	PASS
		25	0	4.4769	4.880	PASS

	HCH	1	0	0.33258	0.5434	PASS
		1	12	0.34050	0.5562	PASS
		1	24	0.34054	0.5432	PASS
		12	0	2.1745	2.485	PASS
		12	6	2.1814	2.597	PASS
		12	13	2.1736	2.523	PASS
		25	0	4.4858	4.882	PASS
16QAM	LCH	1	0	0.34447	0.5530	PASS
		1	12	0.34749	0.5339	PASS
		1	24	0.34347	0.5826	PASS
		12	0	2.1723	2.596	PASS
		12	6	2.1787	2.572	PASS
		12	13	2.1721	2.548	PASS
		25	0	4.4763	4.860	PASS
	MCH	1	0	0.34043	0.5585	PASS
		1	12	0.35805	0.5402	PASS
		1	24	0.35832	0.5592	PASS
		12	0	2.1762	2.612	PASS
		12	6	2.1794	2.619	PASS
		12	13	2.1769	2.608	PASS
		25	0	4.4847	4.798	PASS
	HCH	1	0	0.33836	0.5607	PASS
		1	12	0.36598	0.5754	PASS
		1	24	0.34920	0.5611	PASS
		12	0	2.1765	2.588	PASS
		12	6	2.1716	2.624	PASS
		12	13	2.1726	2.580	PASS
		25	0	4.4798	4.920	PASS

Channel Bandwidth: 10 MHz

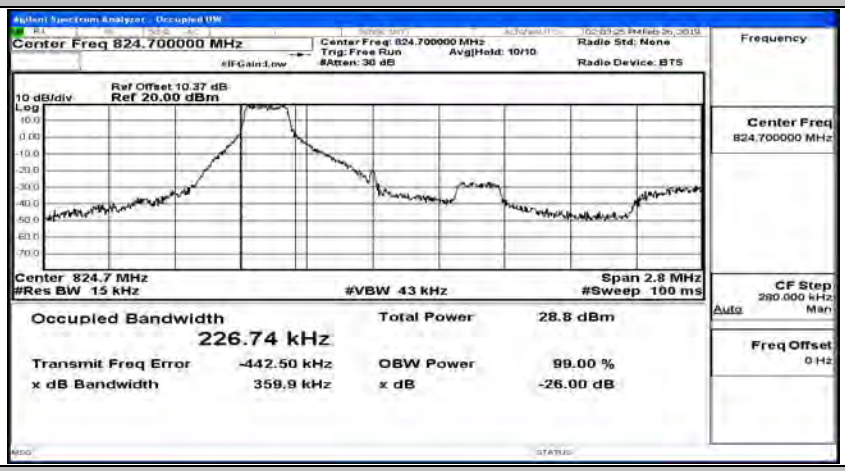
Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	1	0	0.44696	0.6655	PASS
		1	25	0.43530	0.7072	PASS
		1	49	0.43515	0.6703	PASS
		25	0	4.5139	5.052	PASS
		25	12	4.5009	5.011	PASS
		25	25	4.5184	5.025	PASS
		50	0	8.9170	9.554	PASS
	MCH	1	0	0.43528	0.6798	PASS

		1	25	0.45564	0.7314	PASS
		1	49	0.43806	0.6663	PASS
		25	0	4.5219	5.052	PASS
		25	12	4.5253	5.088	PASS
		25	25	4.5092	5.026	PASS
		50	0	8.9516	9.595	PASS
	HCH	1	0	0.43384	0.6654	PASS
		1	25	0.45871	0.7130	PASS
		1	49	0.45112	0.6603	PASS
		25	0	4.5032	4.983	PASS
		25	12	4.5174	5.017	PASS
		25	25	4.5217	5.054	PASS
		50	0	8.9349	9.443	PASS
16QAM	LCH	1	0	0.45191	0.6978	PASS
		1	25	0.44372	0.6826	PASS
		1	49	0.44821	0.6455	PASS
		25	0	4.5037	4.957	PASS
		25	12	4.4983	5.053	PASS
		25	25	4.5185	4.994	PASS
		50	0	8.9061	9.458	PASS
	MCH	1	0	0.44644	0.6753	PASS
		1	25	0.45769	0.6839	PASS
		1	49	0.43898	0.6525	PASS
		25	0	4.5104	5.042	PASS
		25	12	4.5164	5.099	PASS
		25	25	4.5064	4.948	PASS
		50	0	8.9597	9.552	PASS
	HCH	1	0	0.44119	0.7132	PASS
		1	25	0.43996	0.6682	PASS
		1	49	0.44353	0.6976	PASS
		25	0	4.5107	5.007	PASS
		25	12	4.5069	5.161	PASS
		25	25	4.5158	5.139	PASS
		50	0	8.9451	9.431	PASS

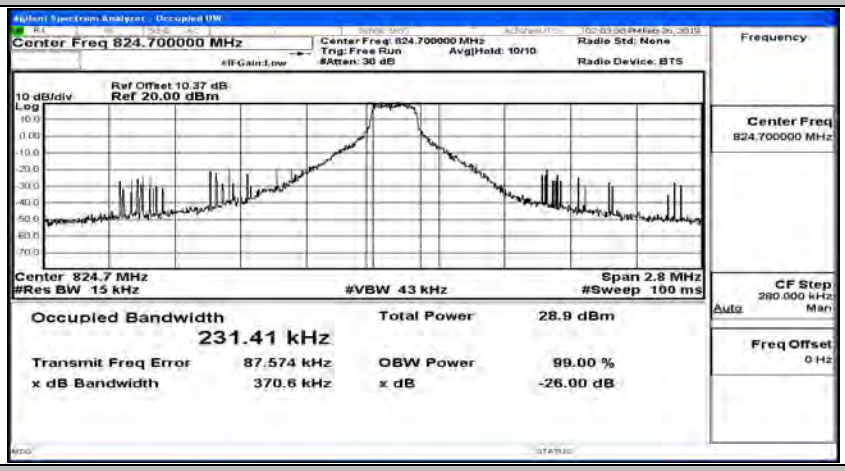
Test Graphs

Channel Bandwidth: 1.4 MHz

(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#0

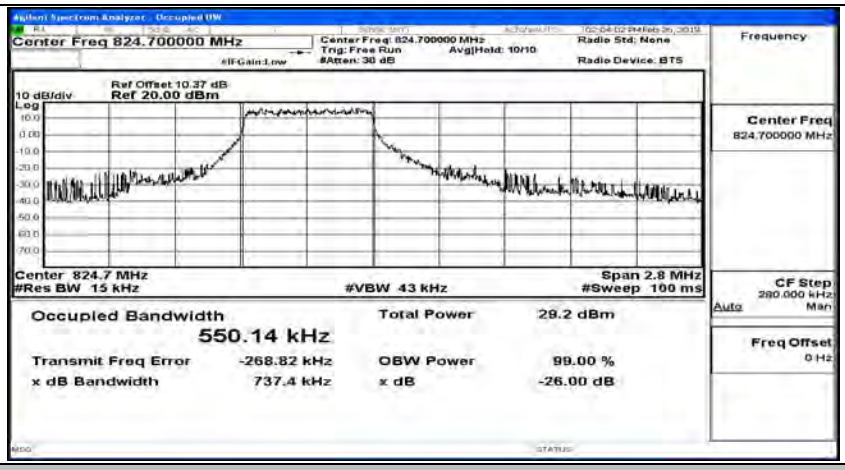


(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#3

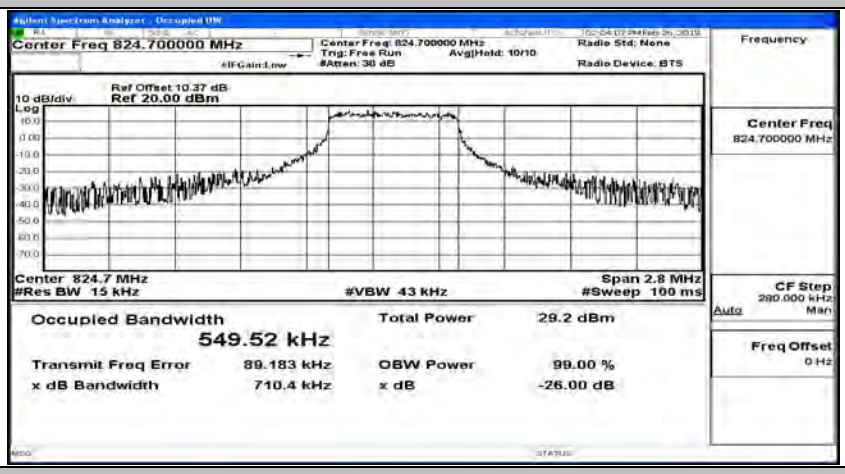


(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#5

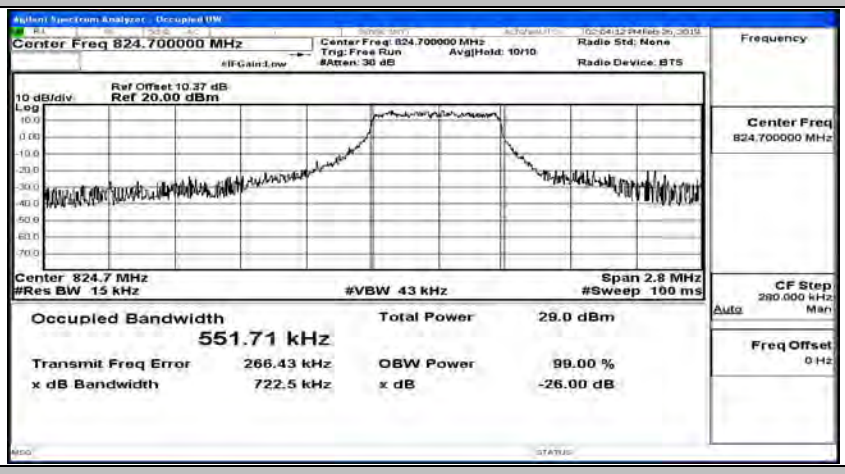
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_3RB#0



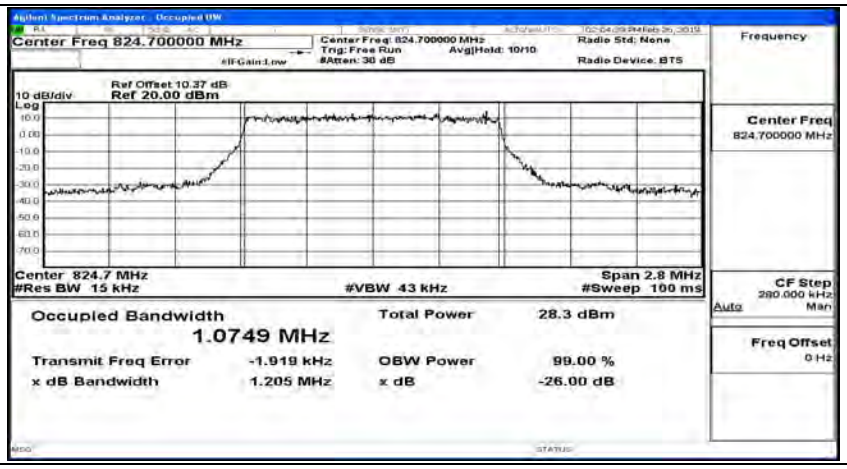
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_3RB#2



(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_3RB#3

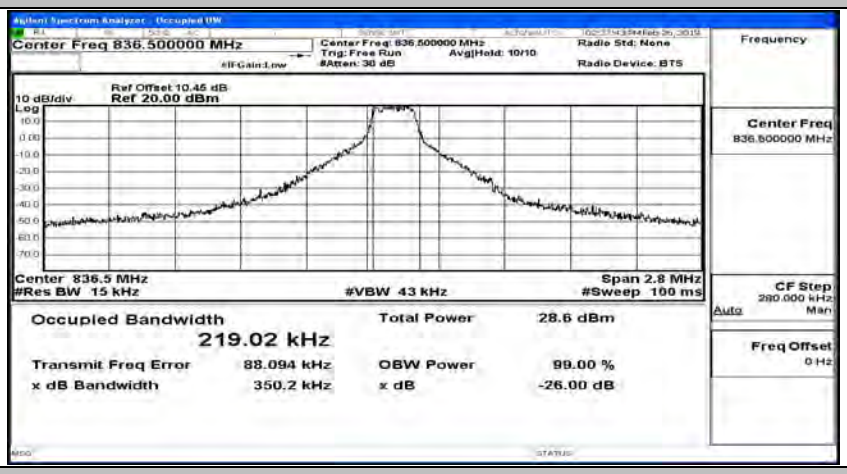


(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_6RB#0

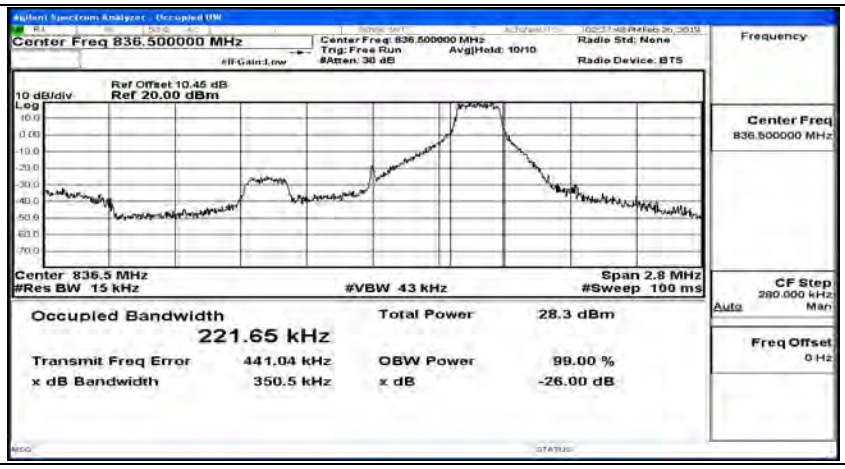


(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#0

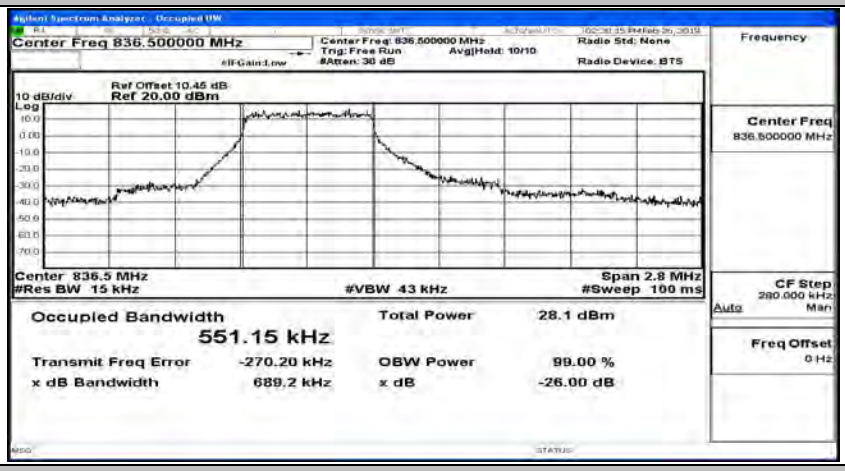
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#3



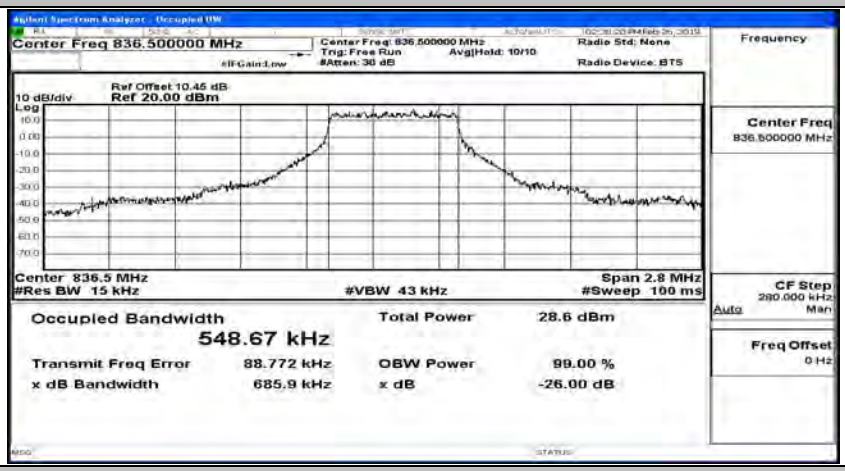
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#5



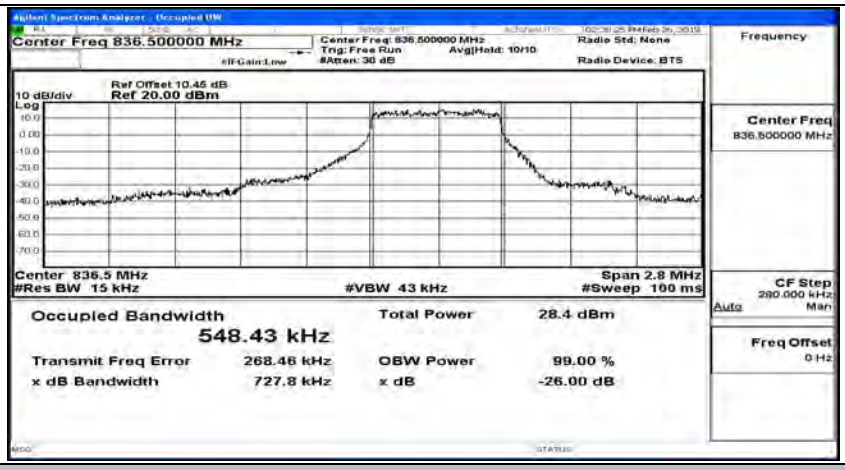
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_3RB#0



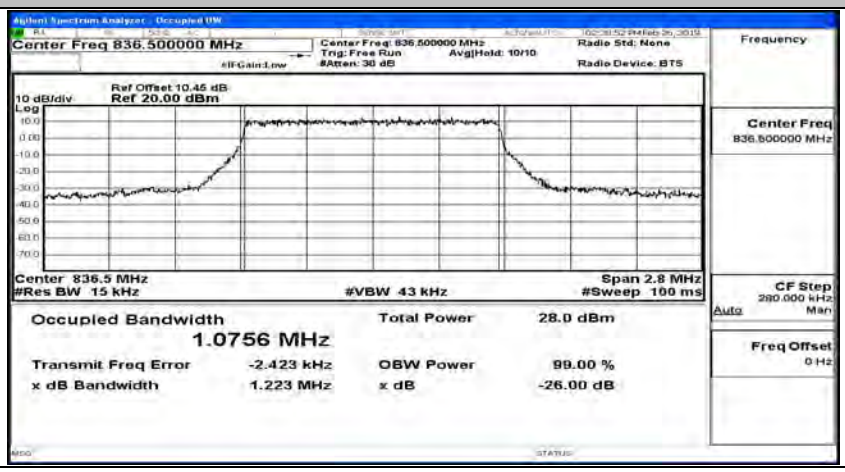
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_3RB#2



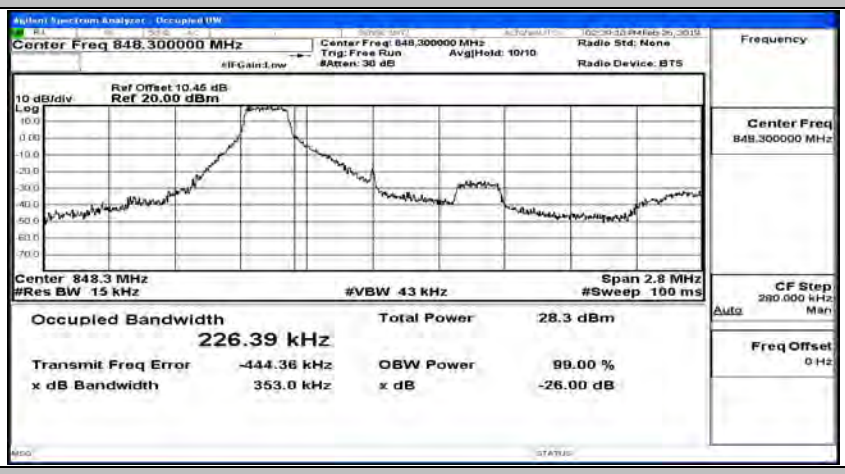
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_3RB#3



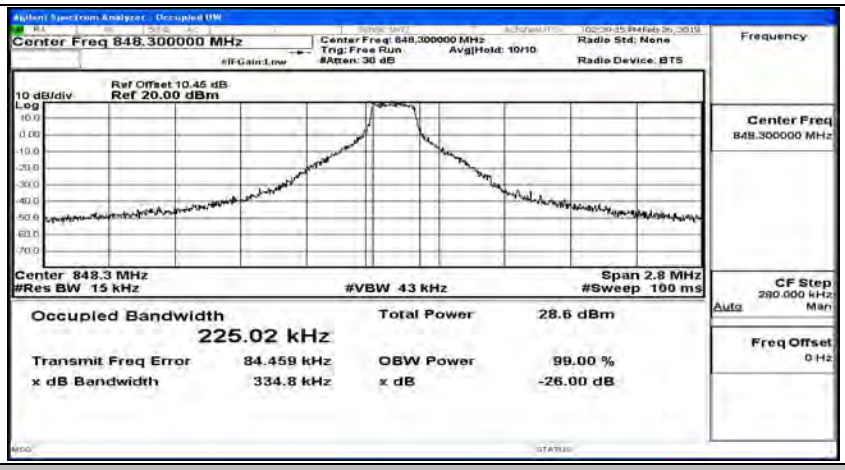
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_6RB#0



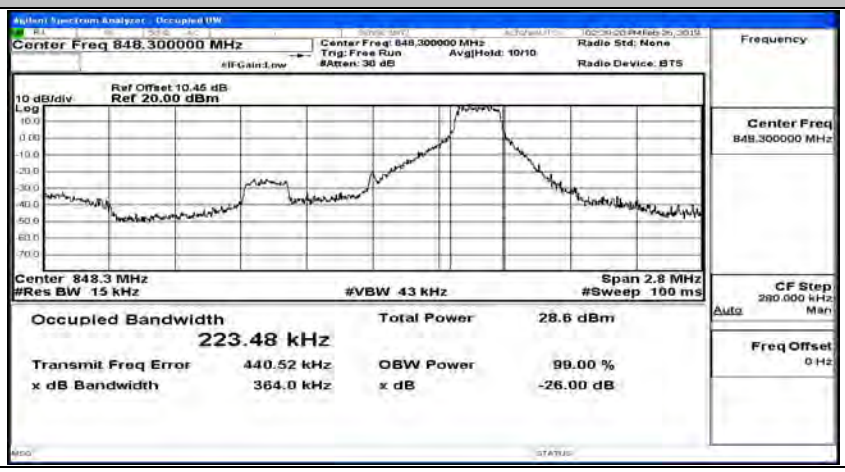
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#0



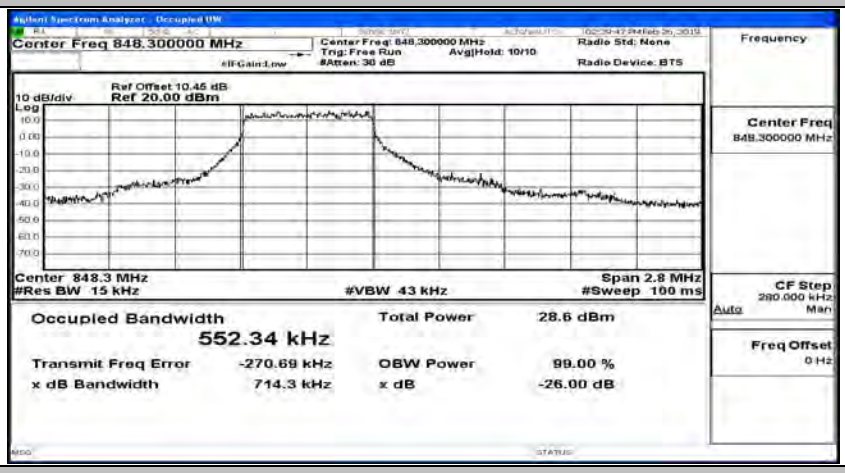
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#3



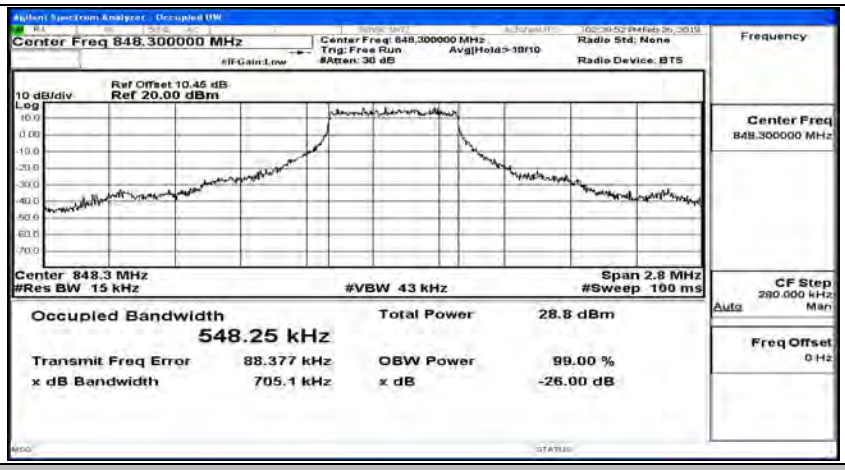
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#5



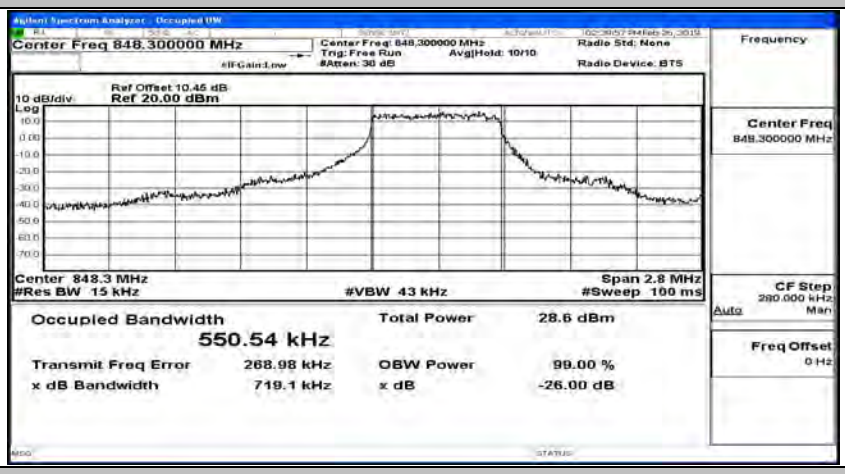
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_3RB#0



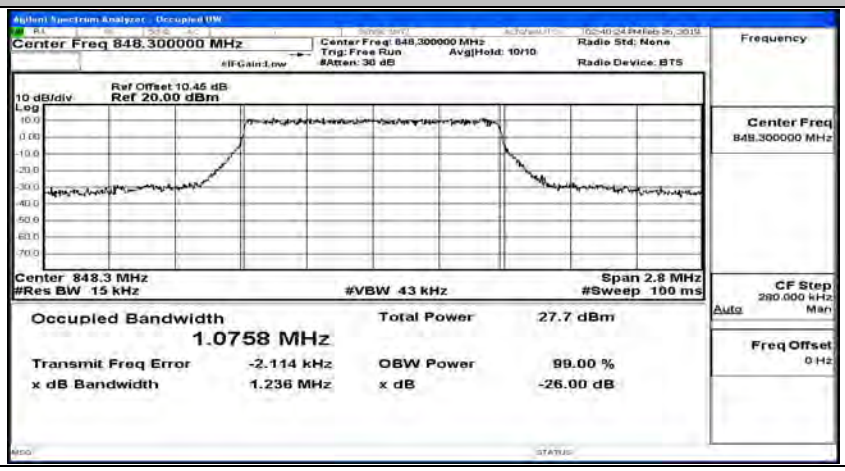
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_3RB#2



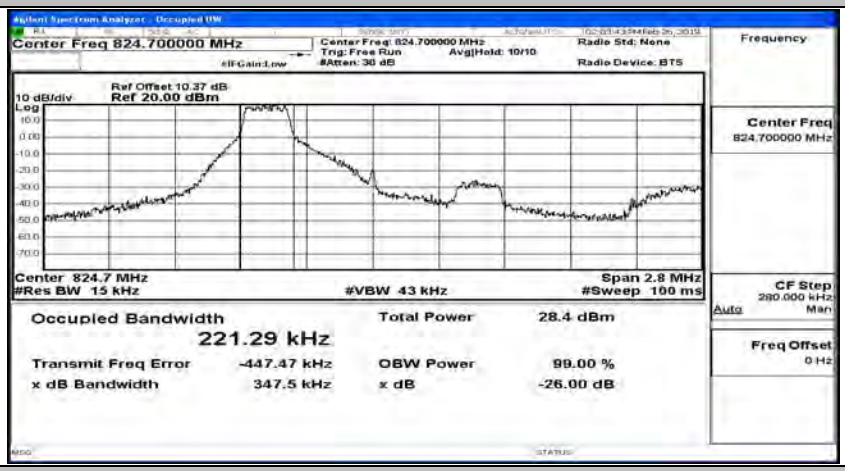
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_3RB#3



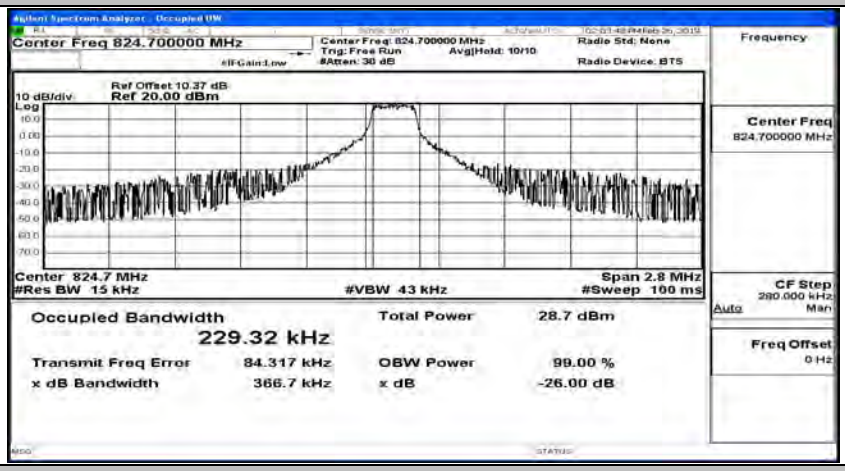
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_6RB#0



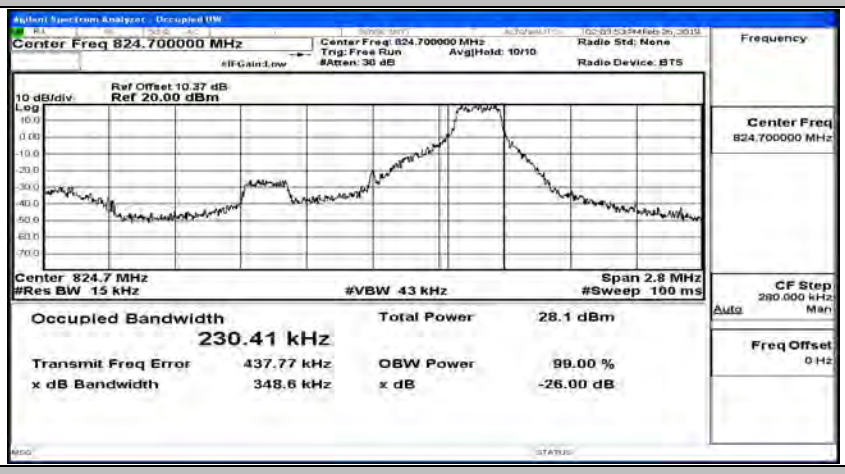
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#0



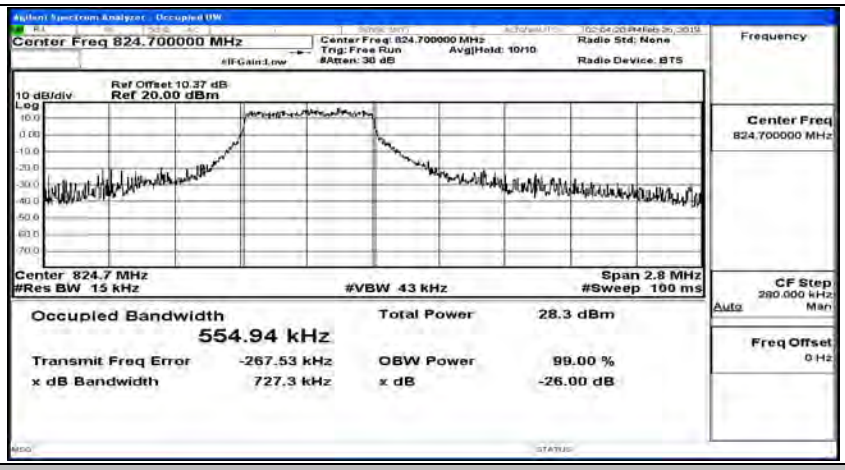
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#3



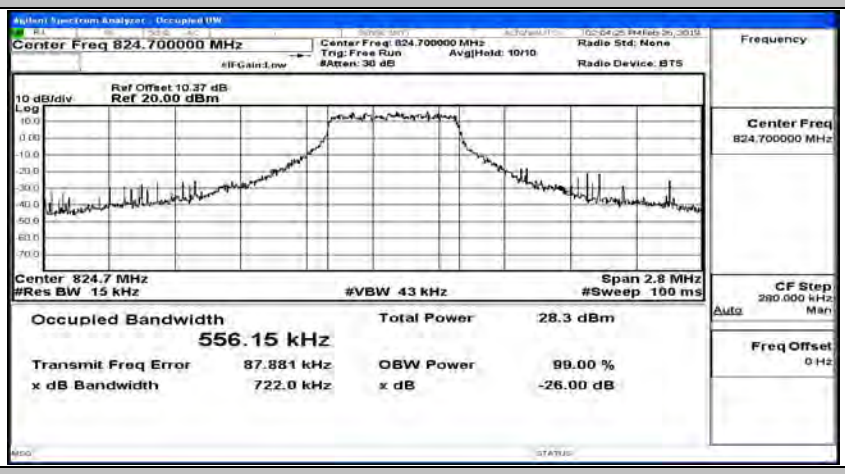
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#5



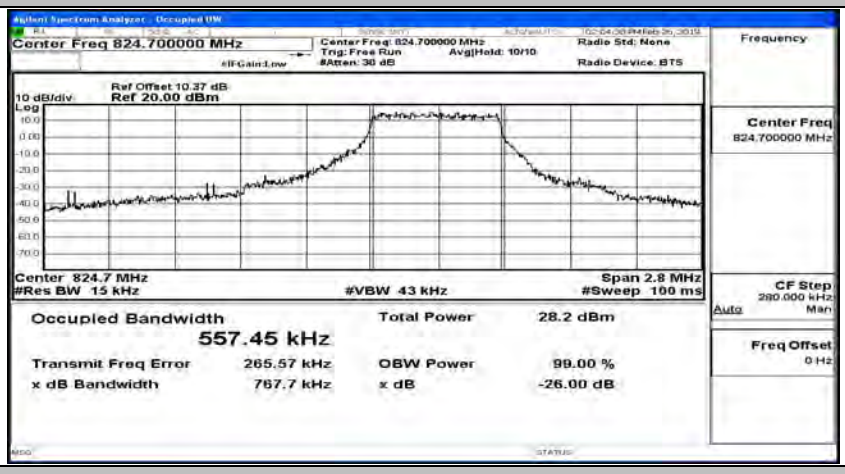
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_3RB#0



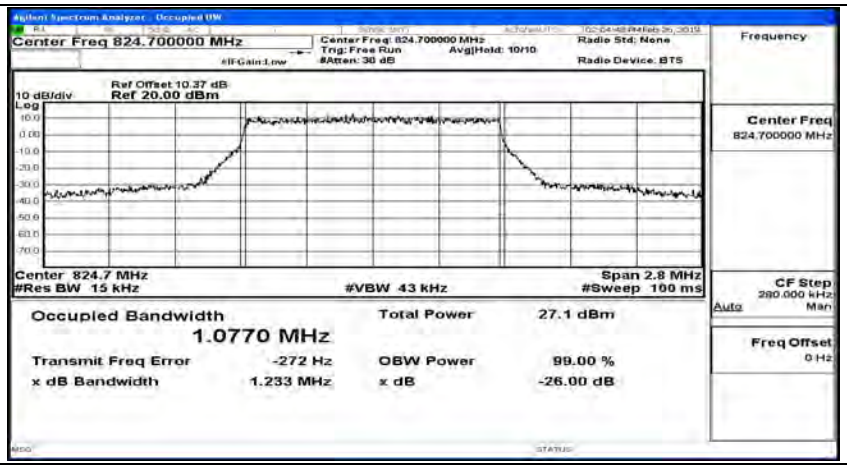
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_3RB#2



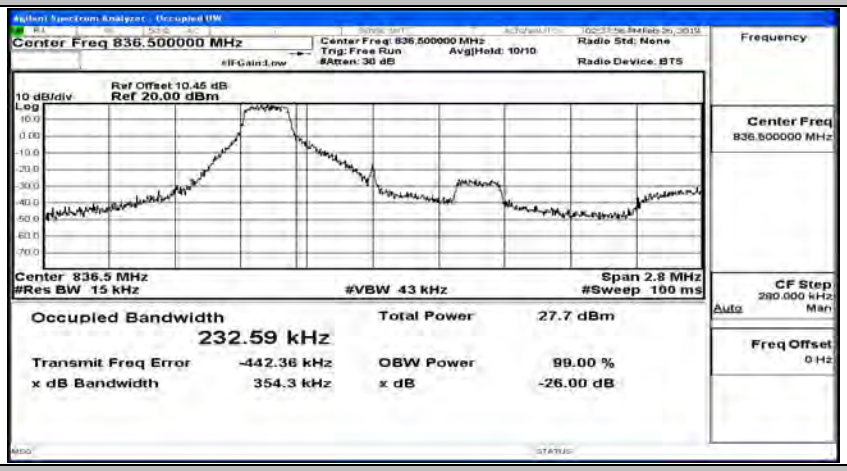
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_3RB#3



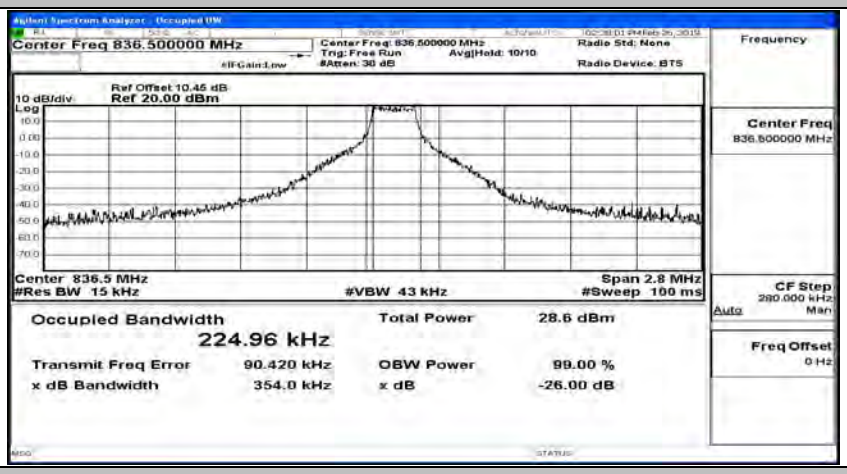
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_6RB#0



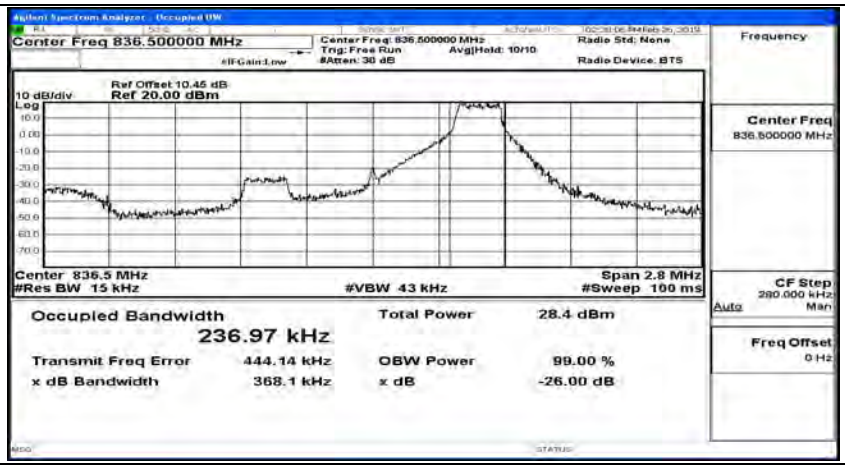
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#0



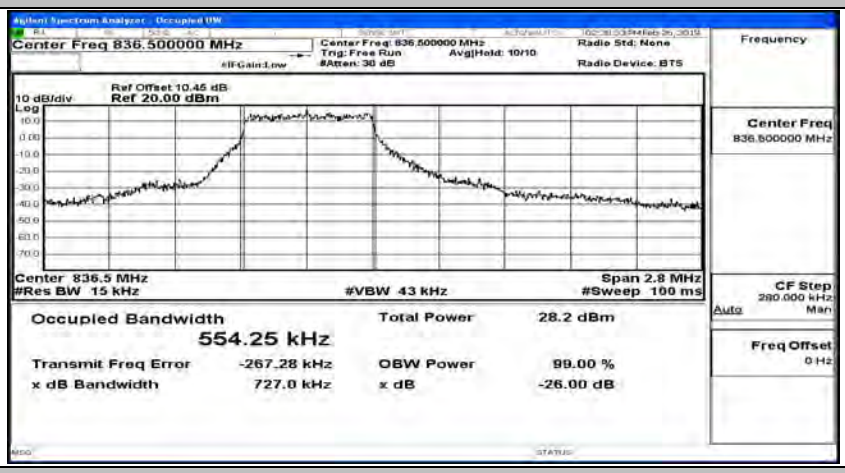
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#3



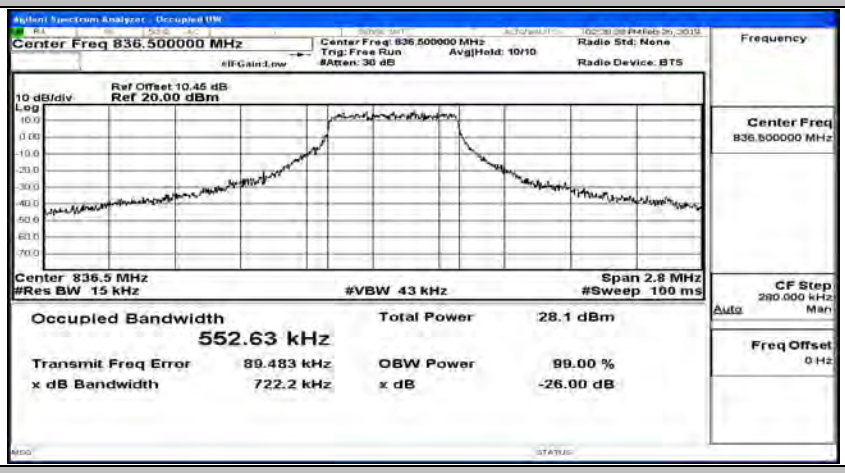
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#5



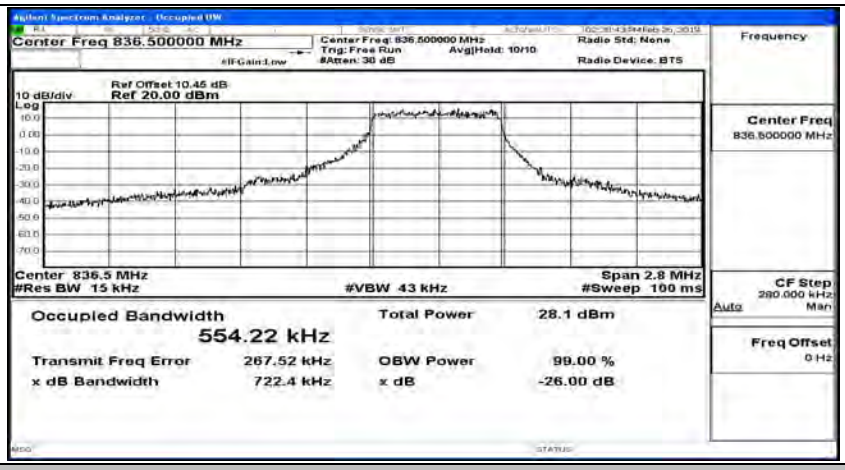
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_3RB#0



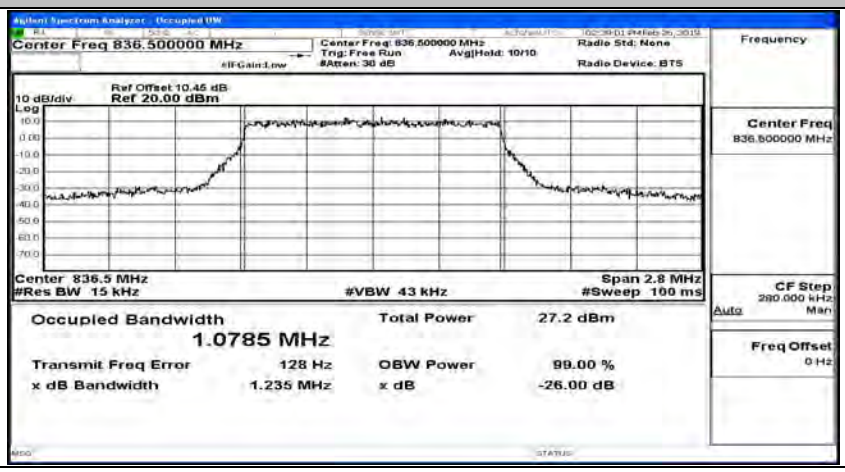
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_3RB#2



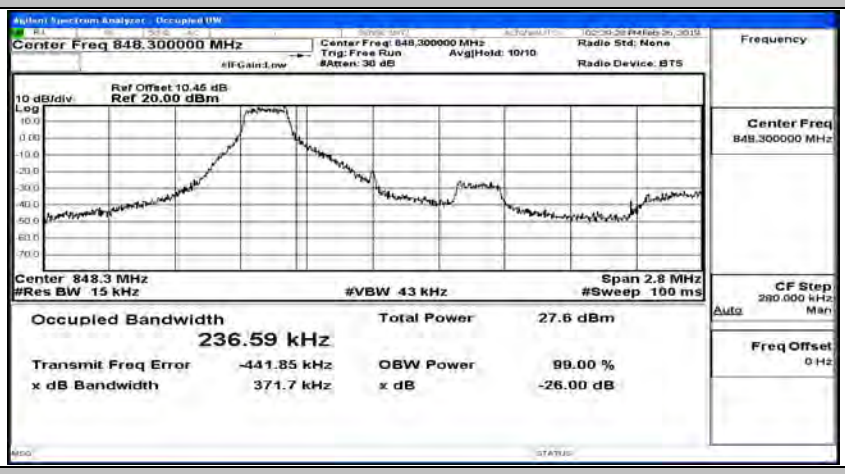
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_3RB#3



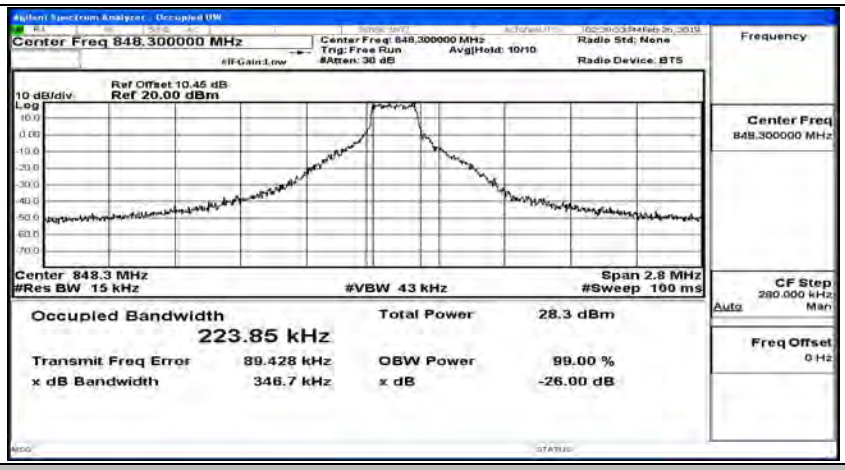
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_6RB#0



(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#0



(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#3



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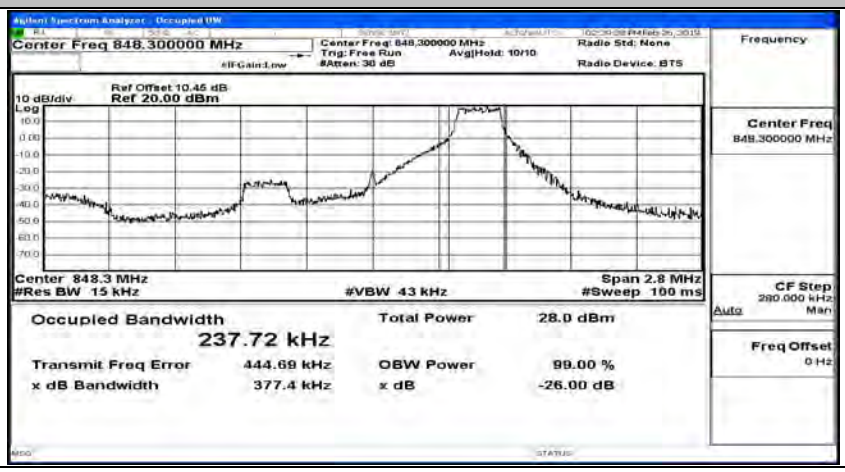

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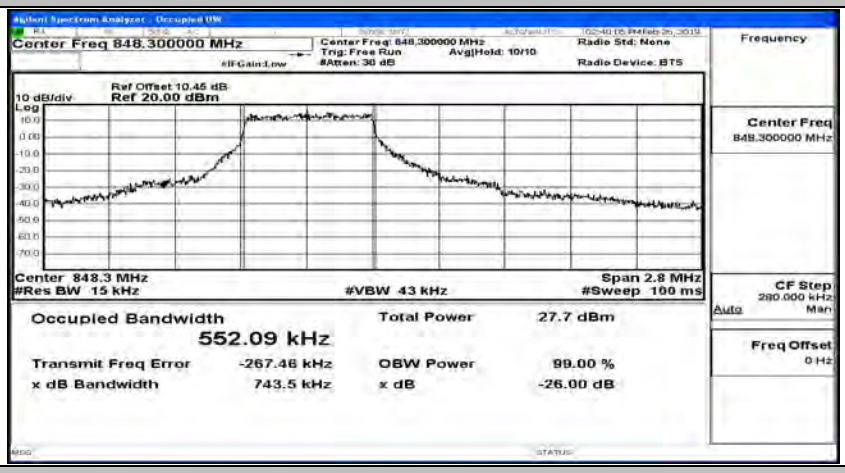

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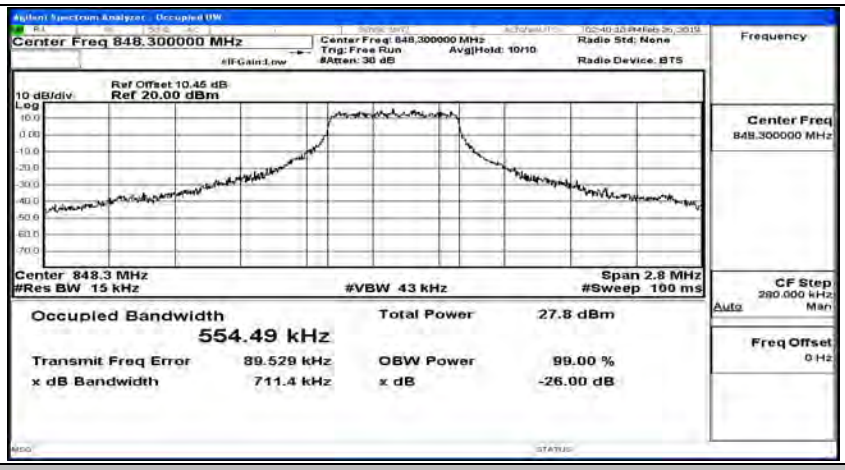
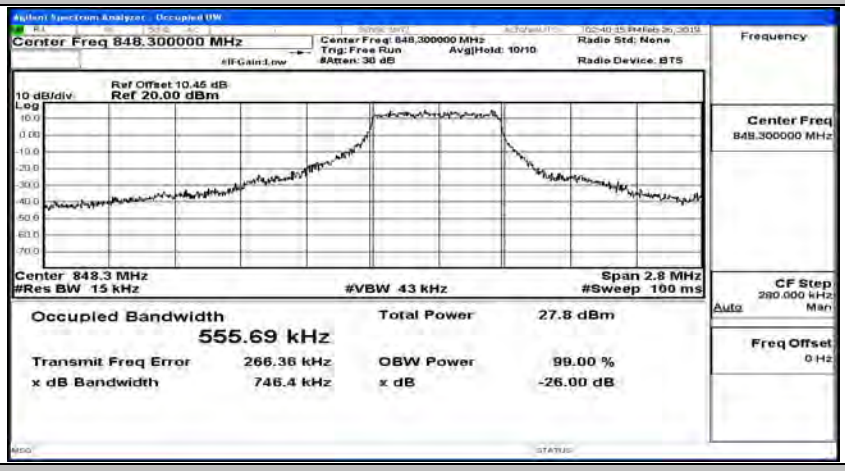
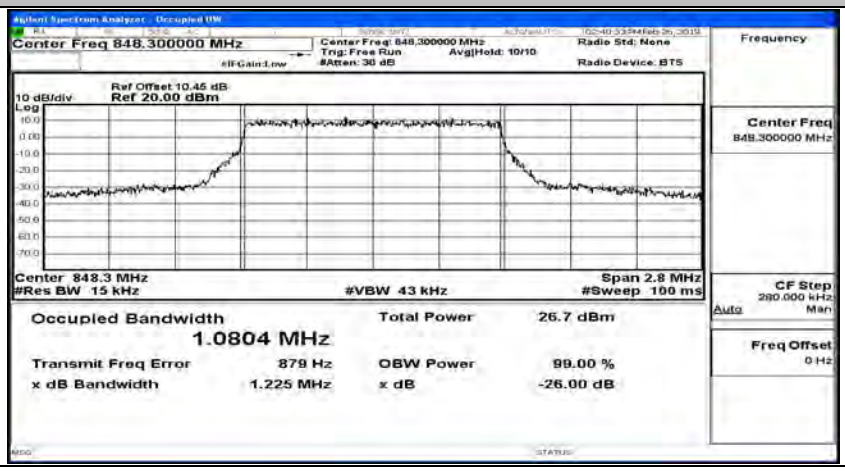


(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_3RB#3

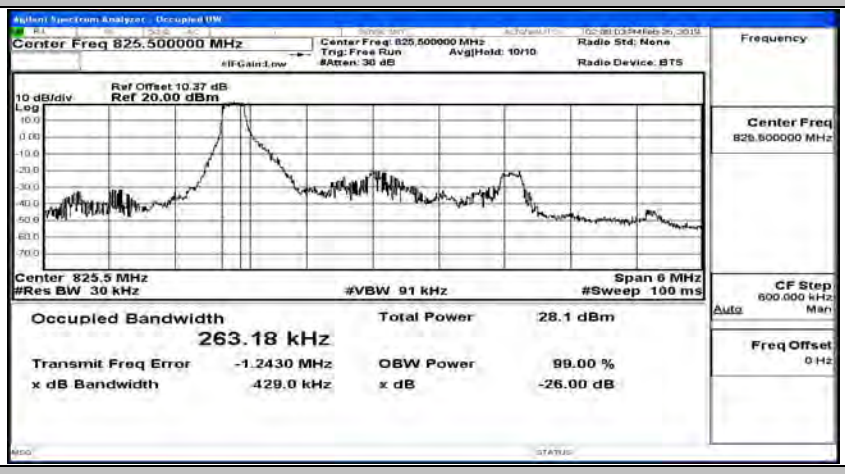


(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_6RB#0

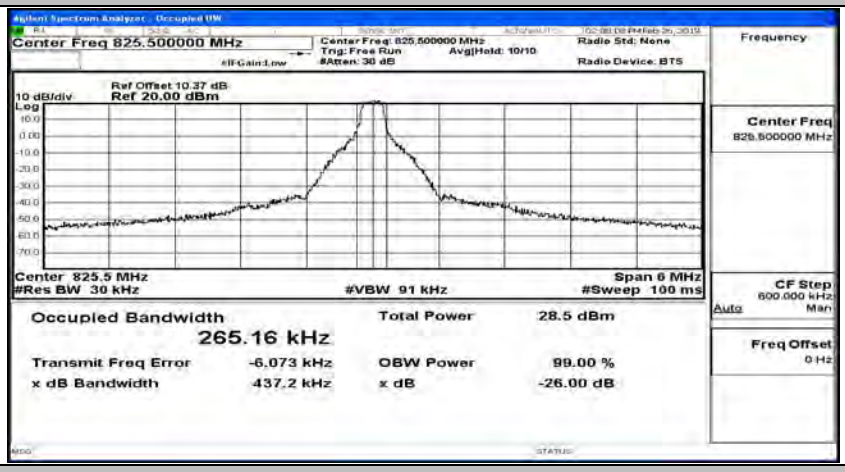


Channel Bandwidth: 3 MHz

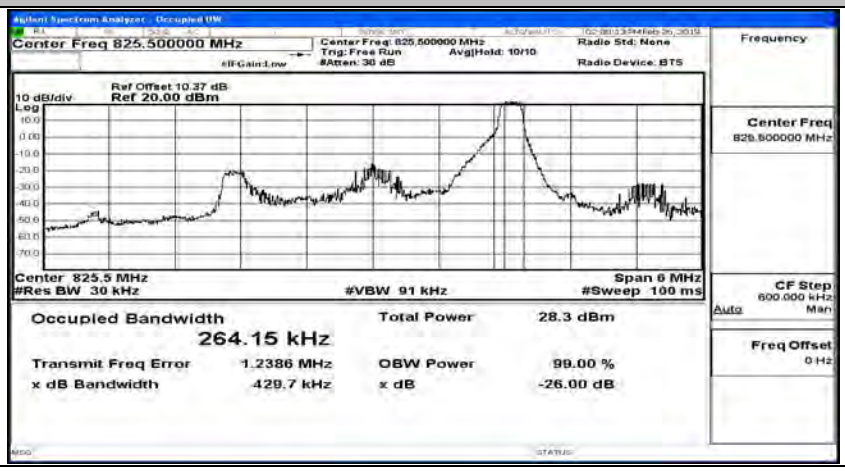
(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#0



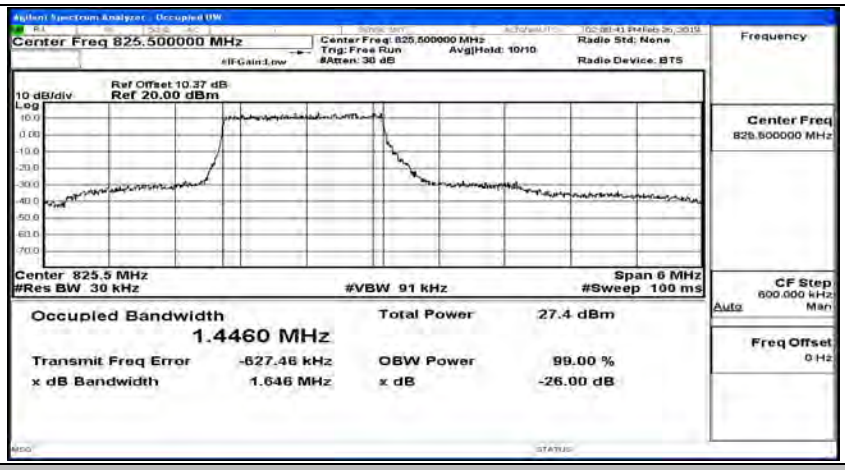
(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#7



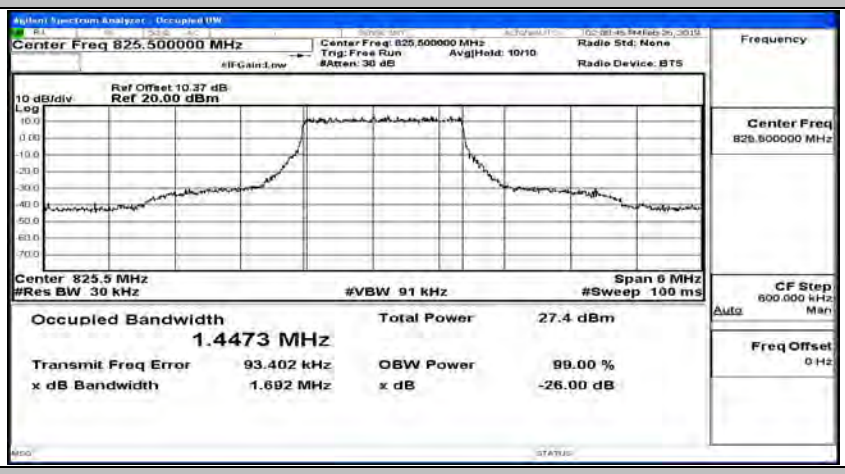
(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#14



(Channel Bandwidth: 3 MHz)_LCH_QPSK_8RB#0



(Channel Bandwidth: 3 MHz)_LCH_QPSK_8RB#4



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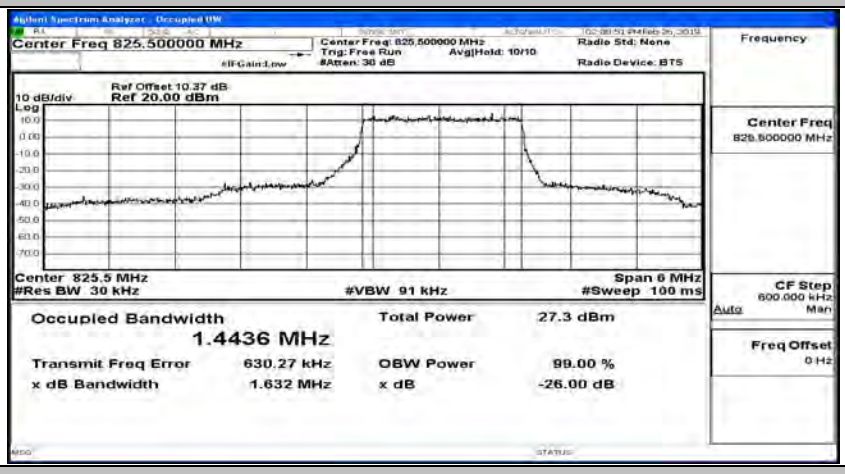
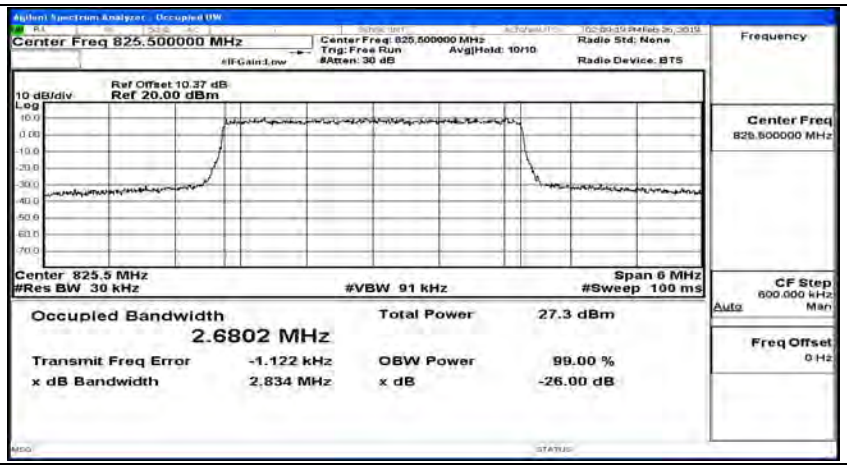
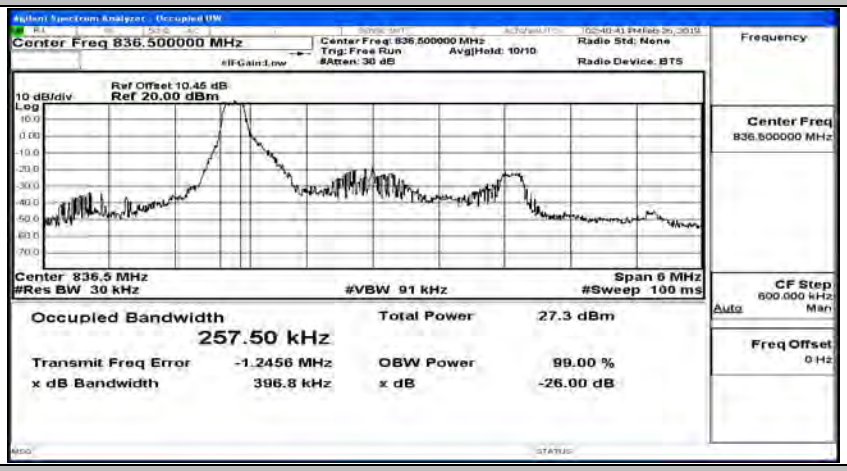


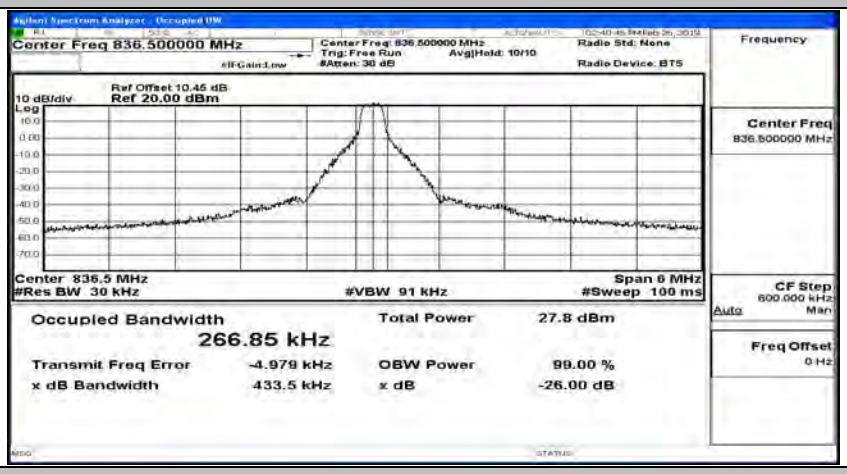
(Channel Bandwidth: 3 MHz)_LCH_QPSK_15RB#0



(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#0



(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#7



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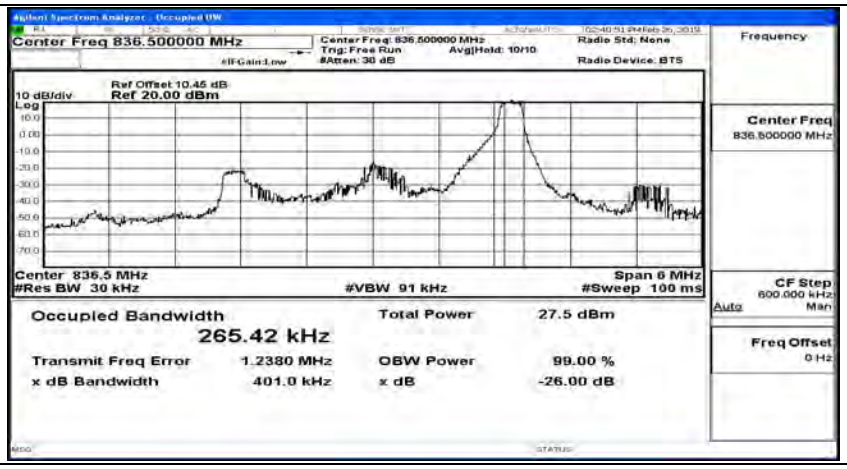
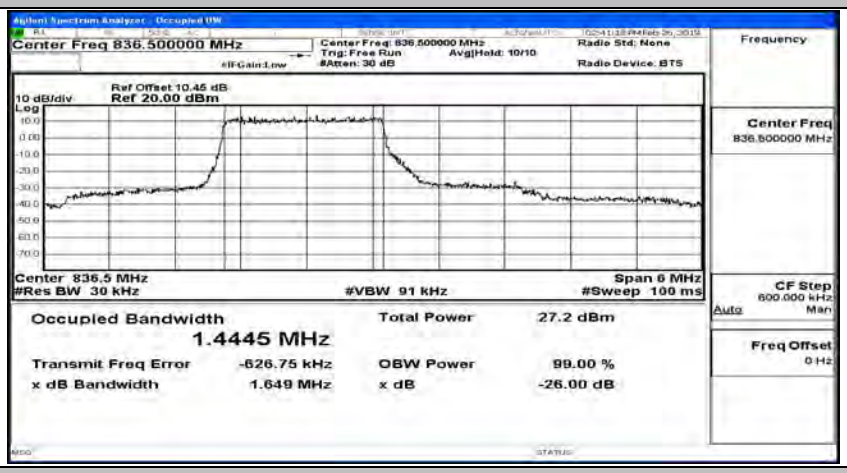
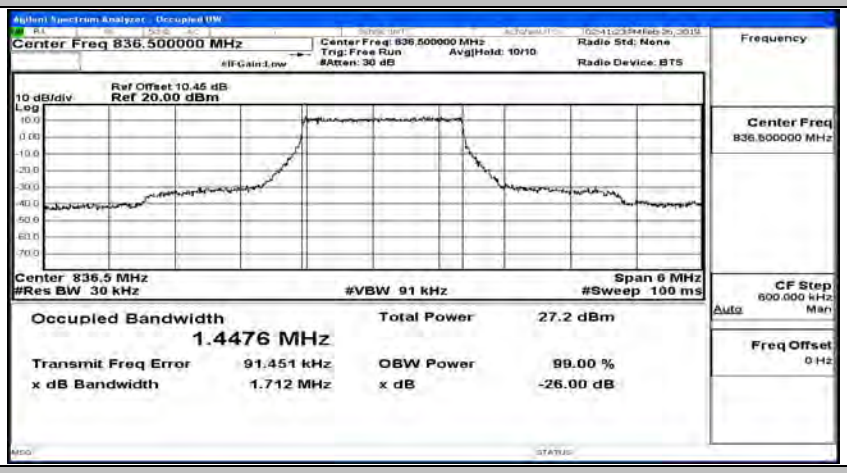


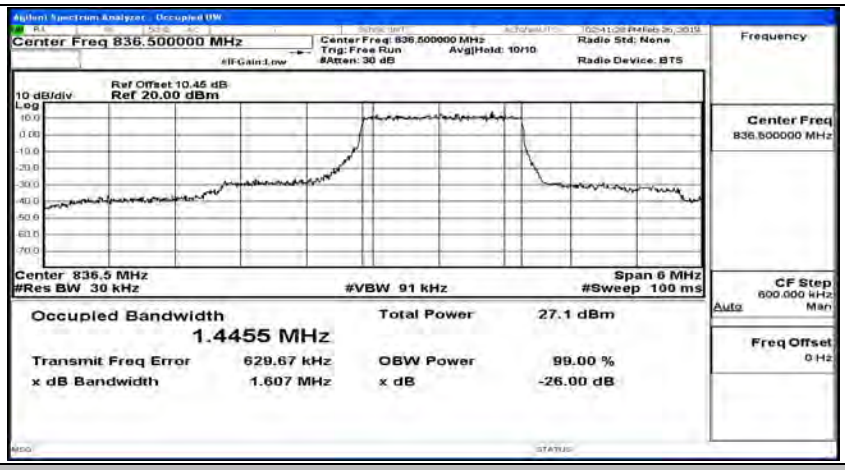
(Channel Bandwidth: 3 MHz)_MCH_QPSK_8RB#0



(Channel Bandwidth: 3 MHz)_MCH_QPSK_8RB#4



(Channel Bandwidth: 3 MHz)_MCH_QPSK_8RB#7



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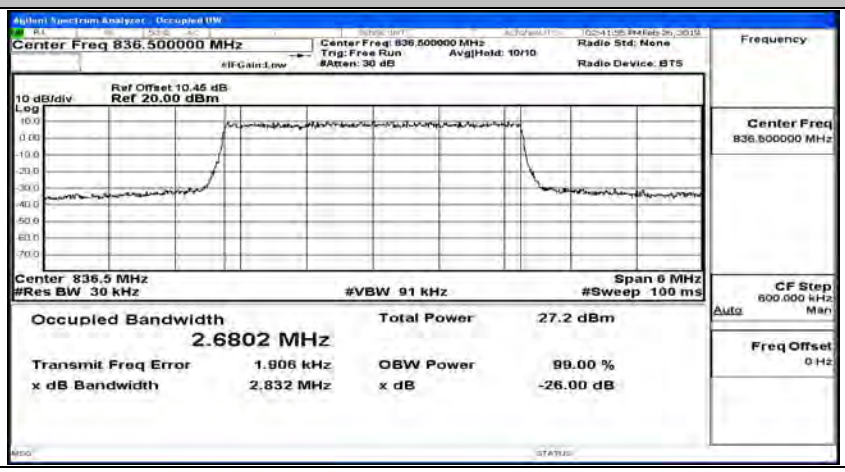
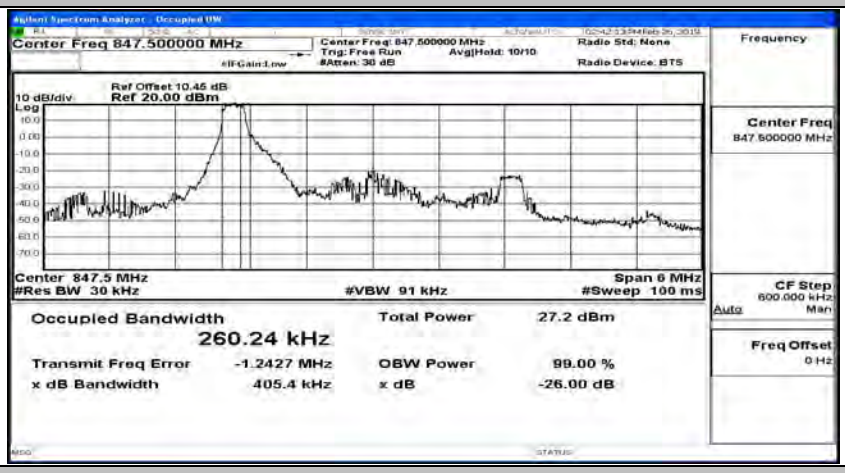
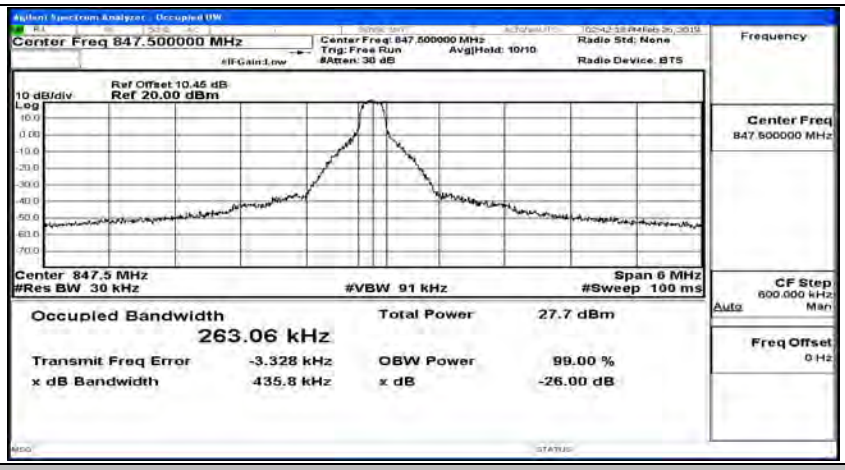


(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#0



(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#7



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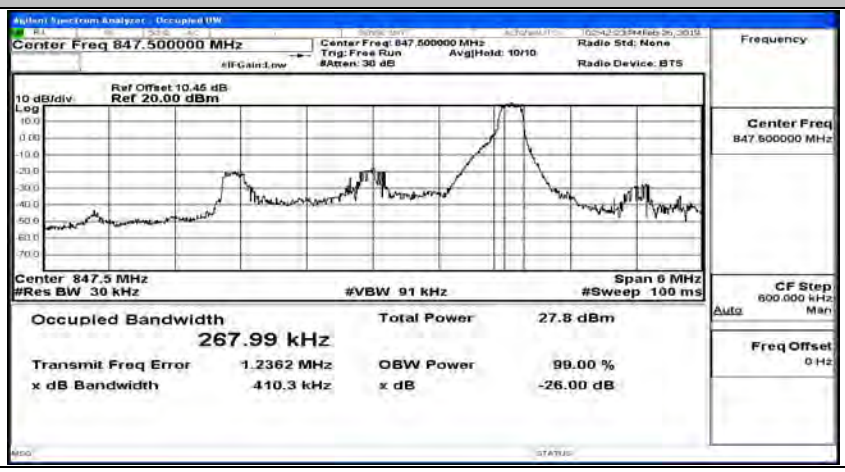
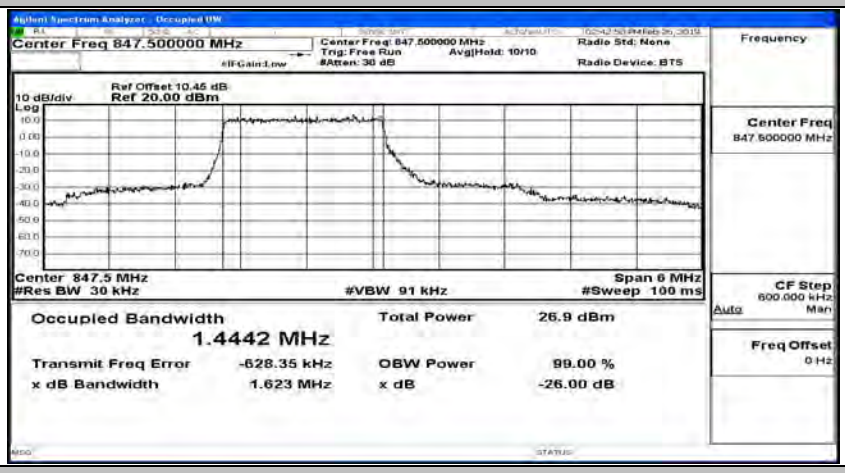
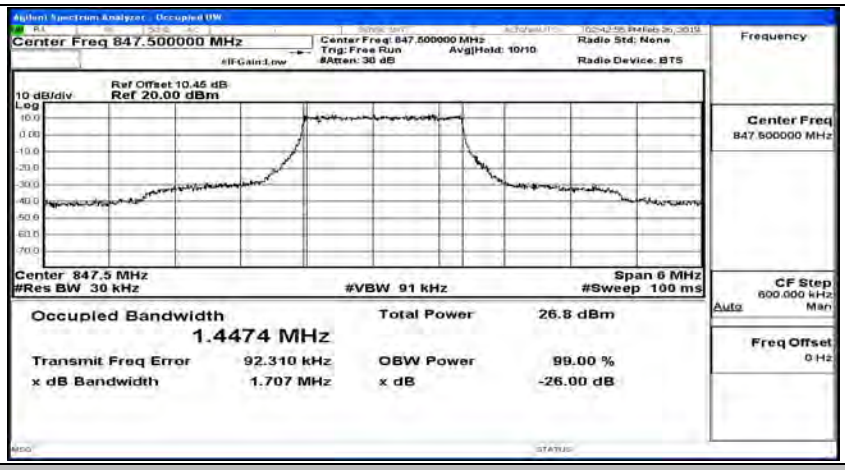


(Channel Bandwidth: 3 MHz)_HCH_QPSK_8RB#0



(Channel Bandwidth: 3 MHz)_HCH_QPSK_8RB#4



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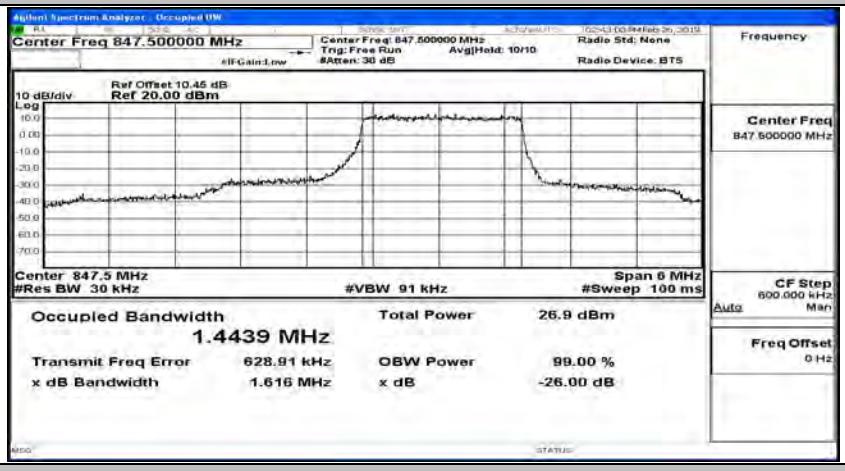

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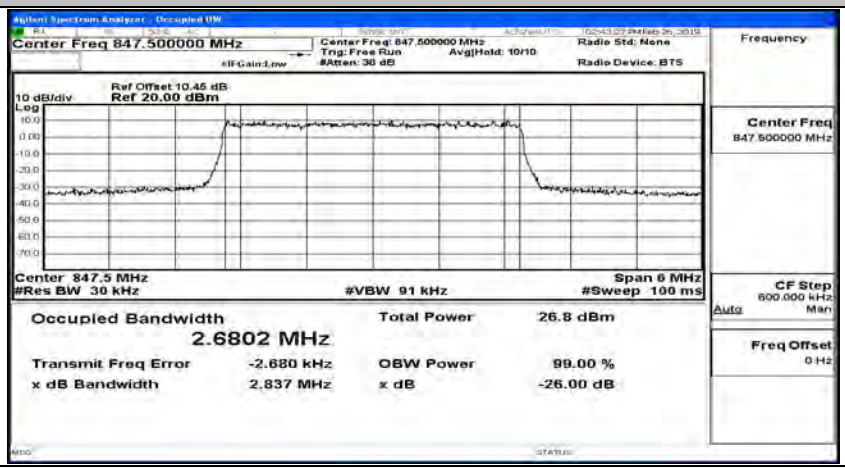

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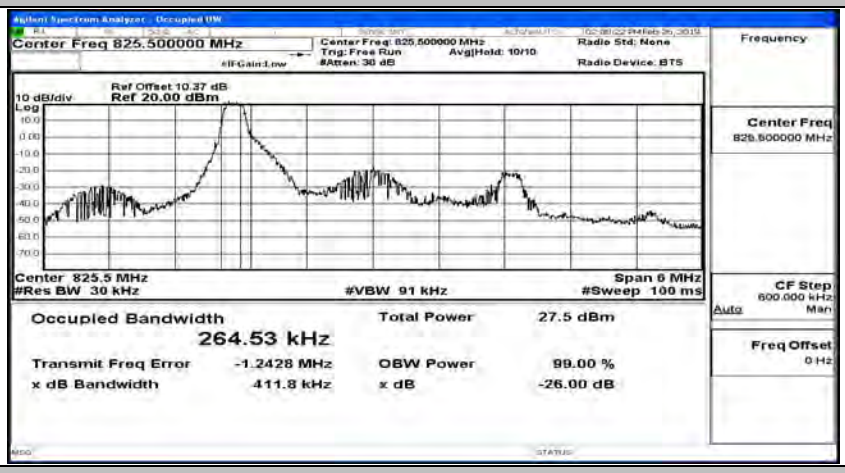

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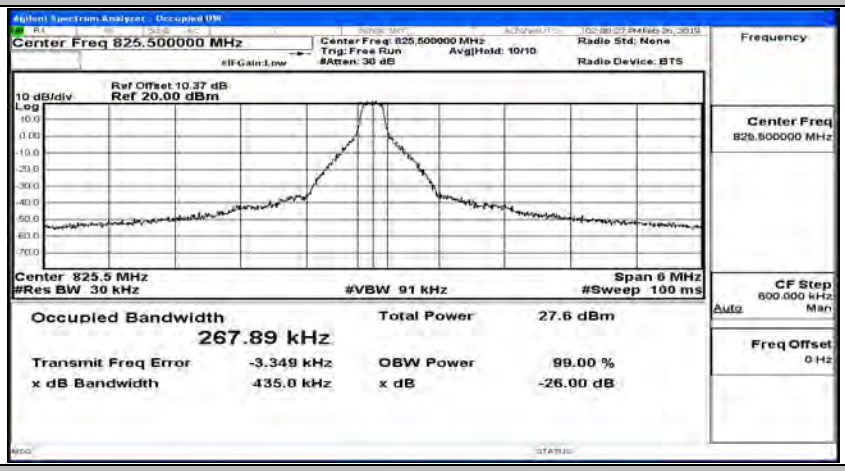

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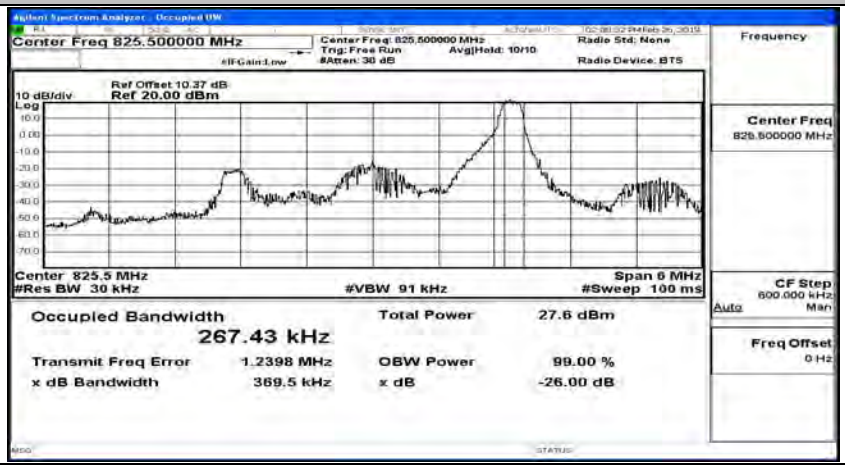

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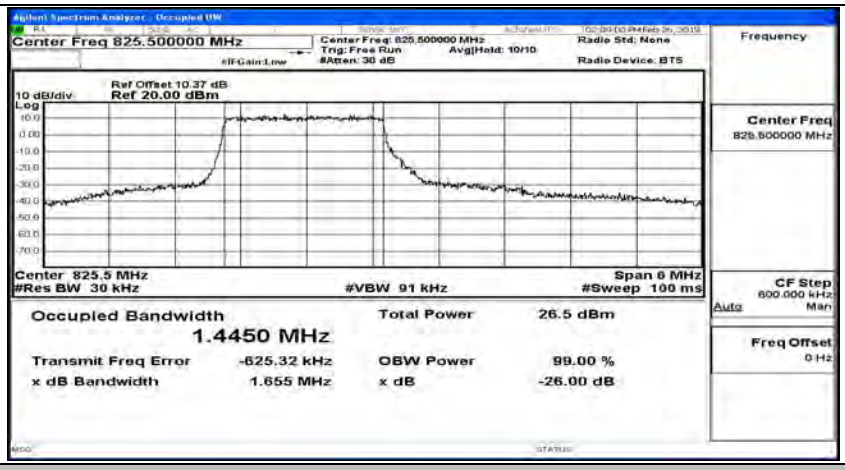
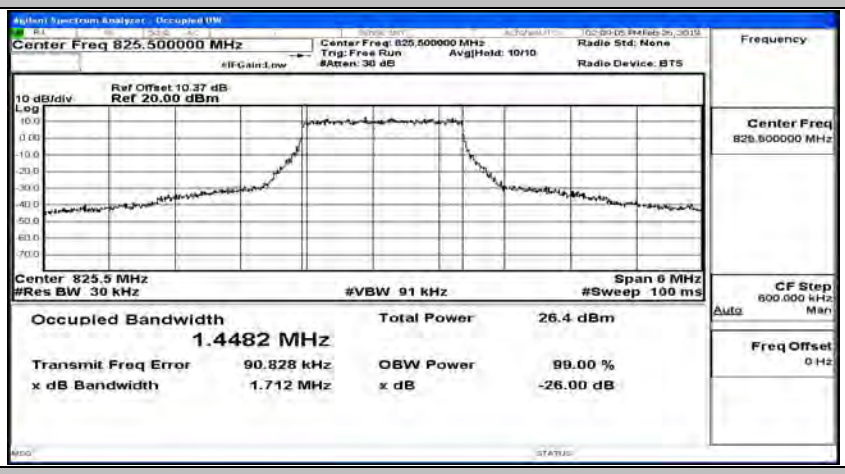
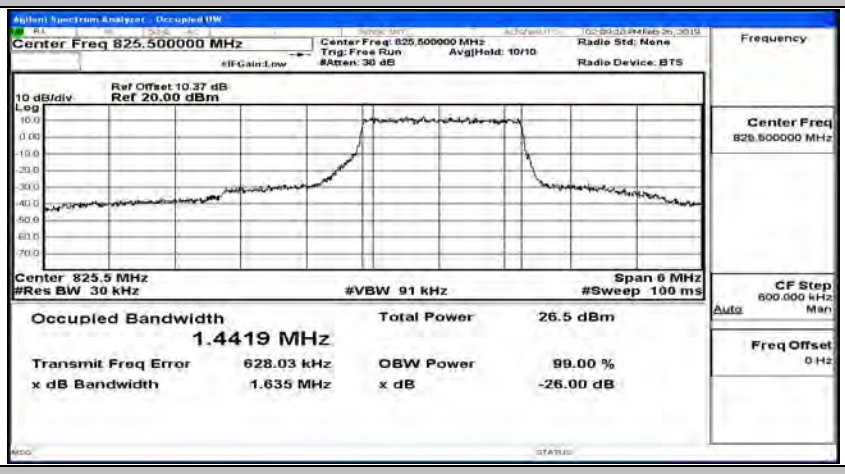


(Channel Bandwidth: 3 MHz)_LCH_16QAM_8RB#4



(Channel Bandwidth: 3 MHz)_LCH_16QAM_8RB#7



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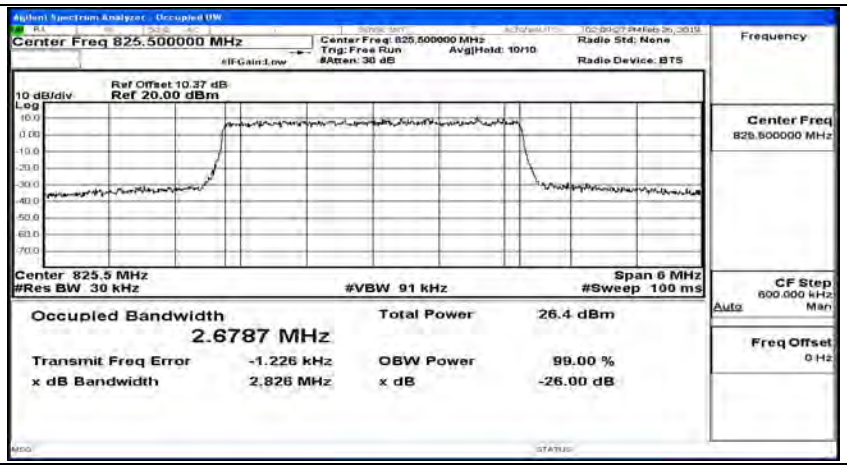

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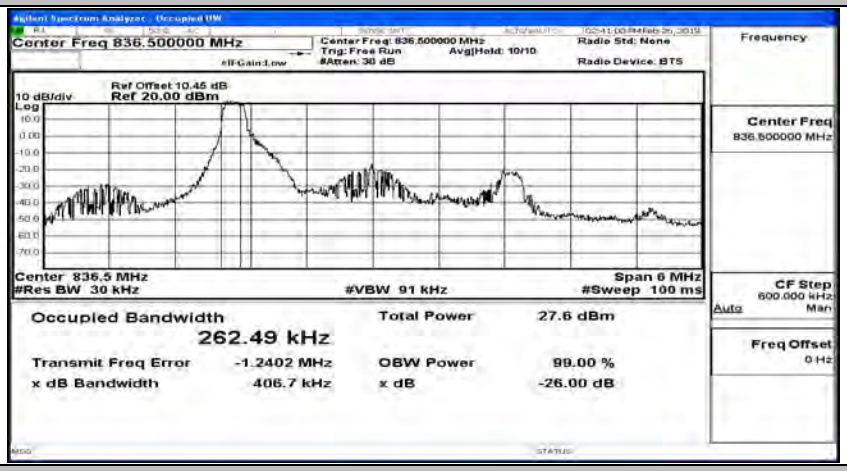

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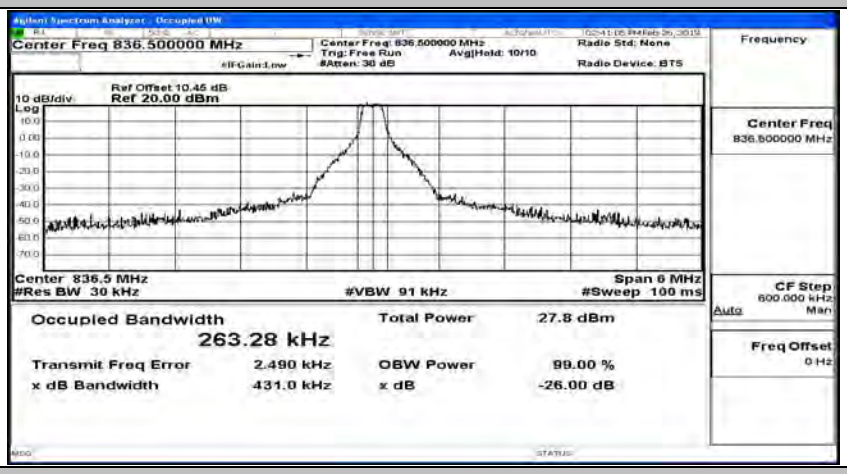

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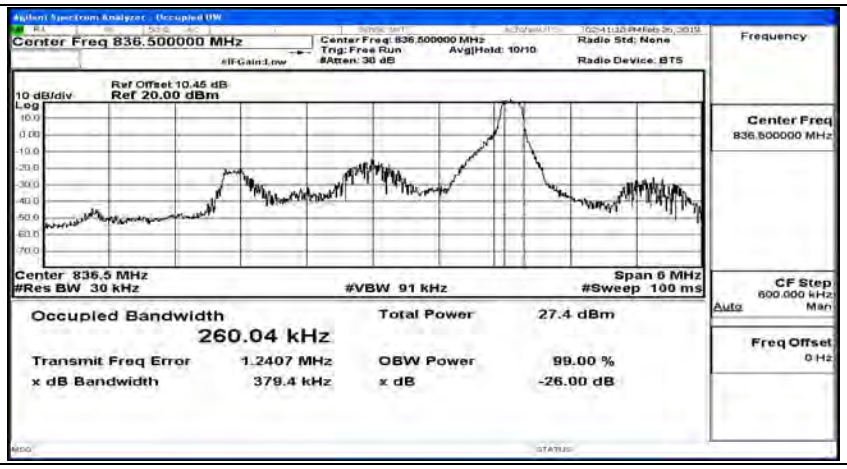

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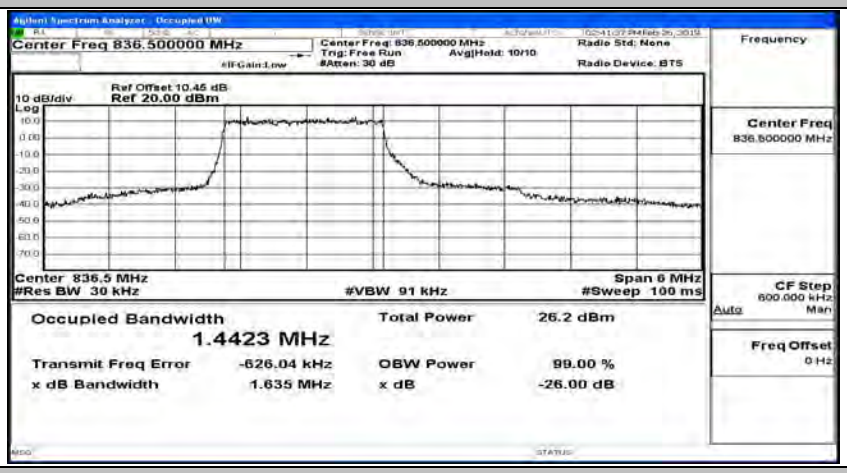

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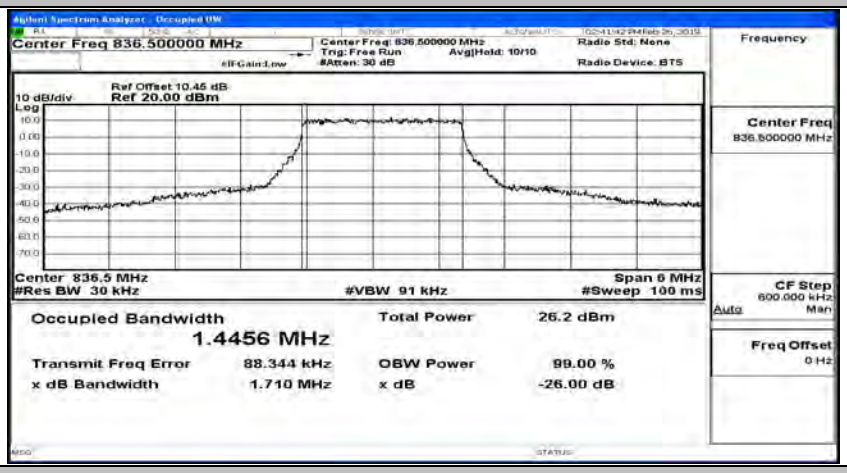

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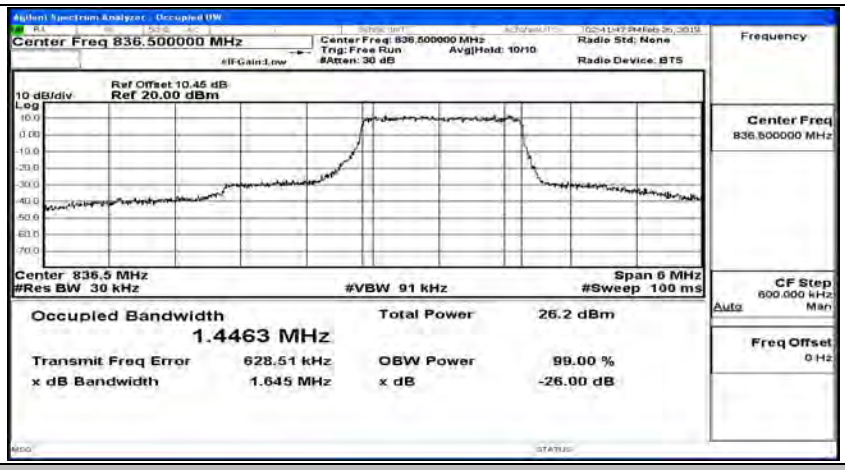

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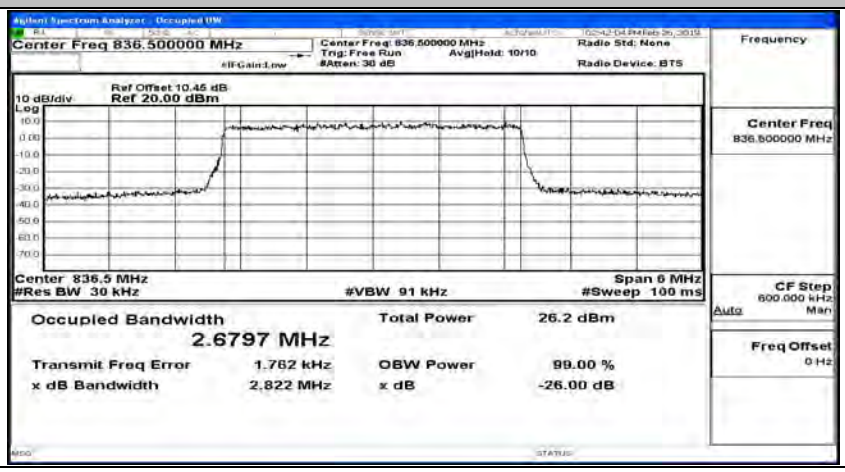

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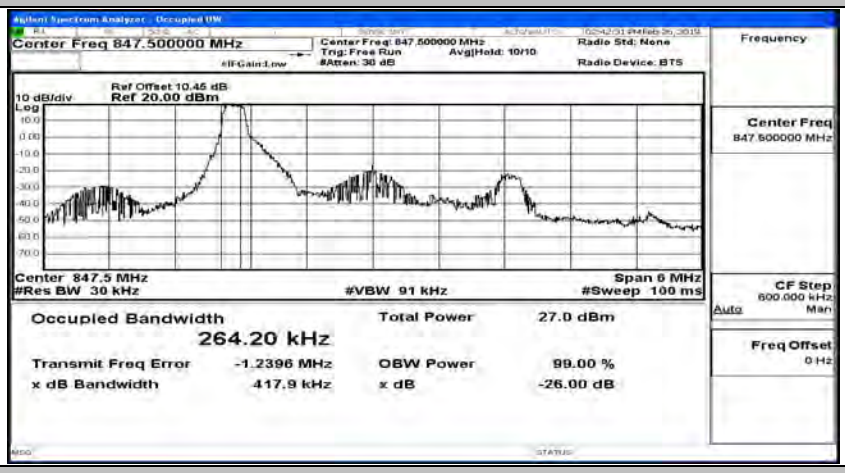
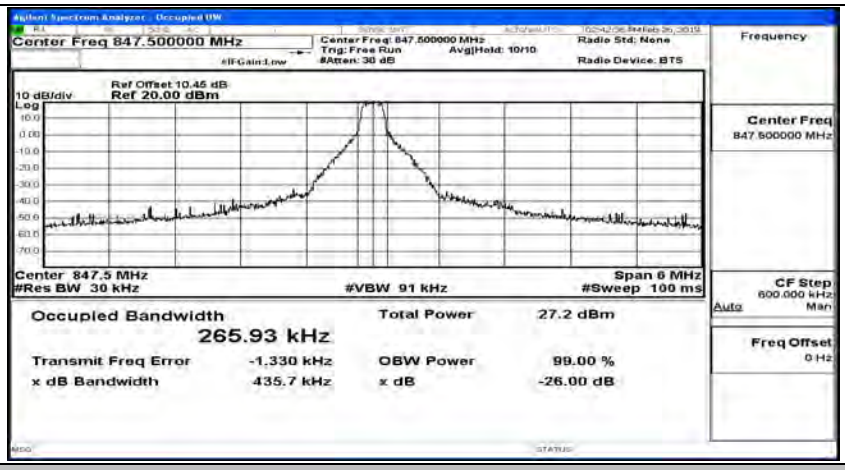
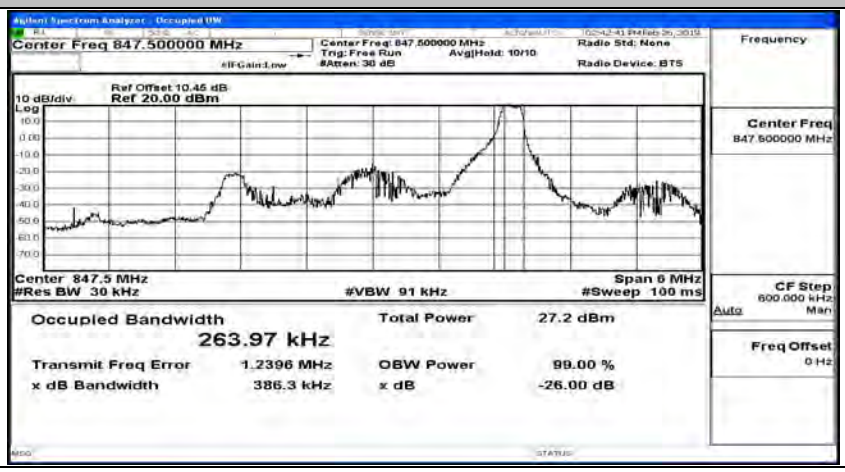


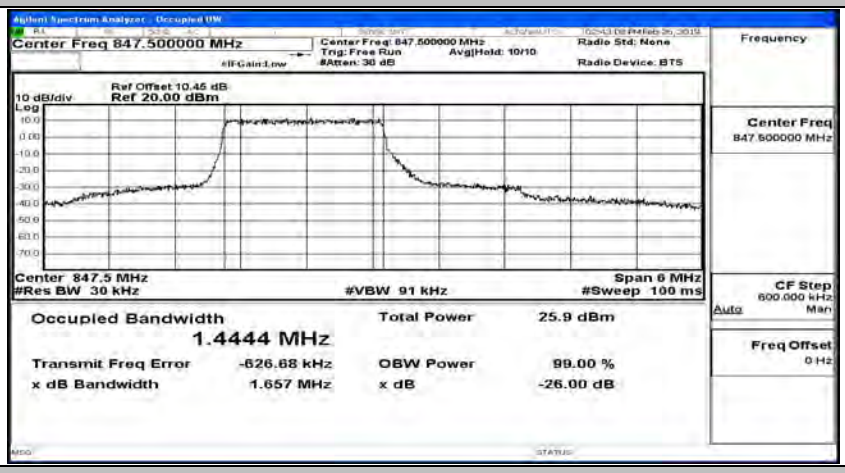
(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#7



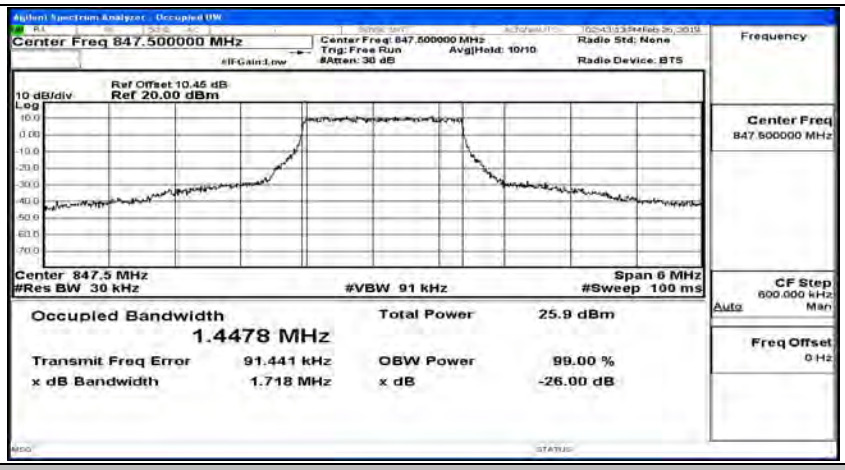
(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#14



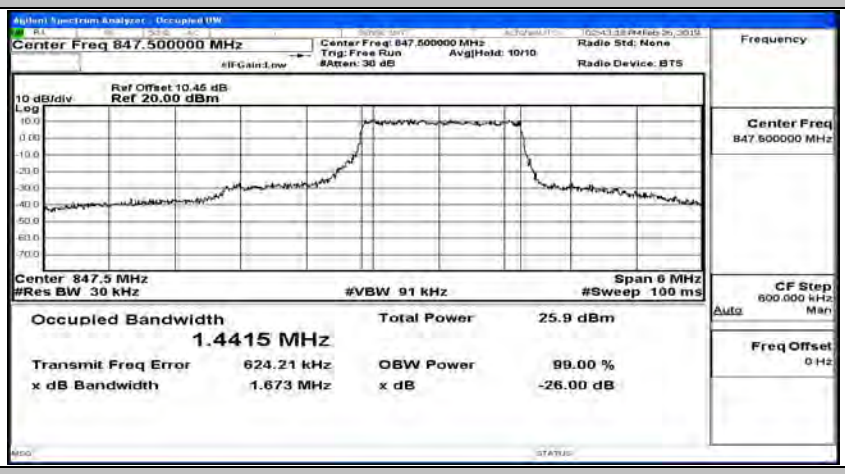
(Channel Bandwidth: 3 MHz)_HCH_16QAM_8RB#0



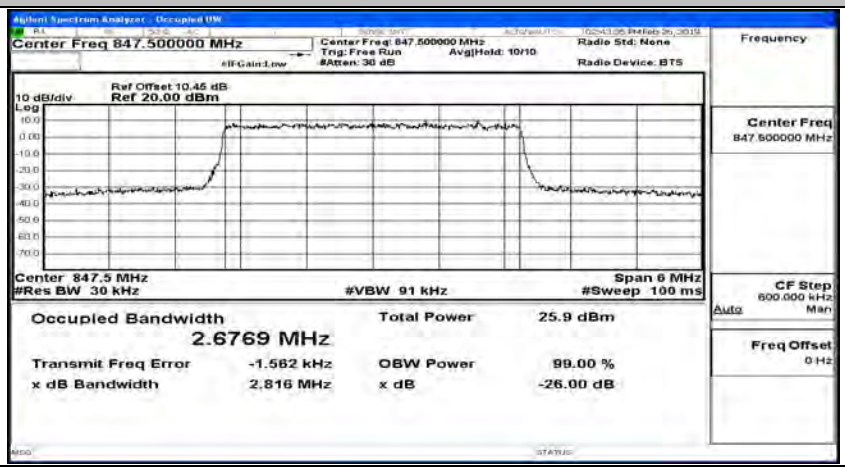
(Channel Bandwidth: 3 MHz)_HCH_16QAM_8RB#4



(Channel Bandwidth: 3 MHz)_HCH_16QAM_8RB#7

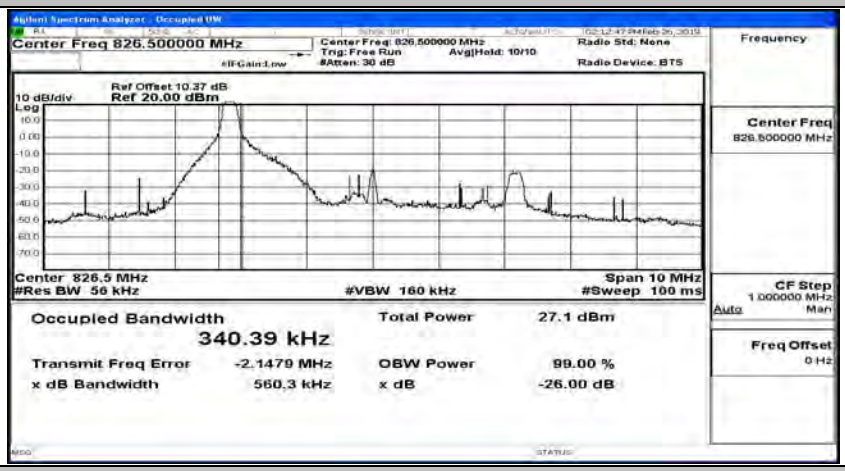


(Channel Bandwidth: 3 MHz)_HCH_16QAM_15RB#0

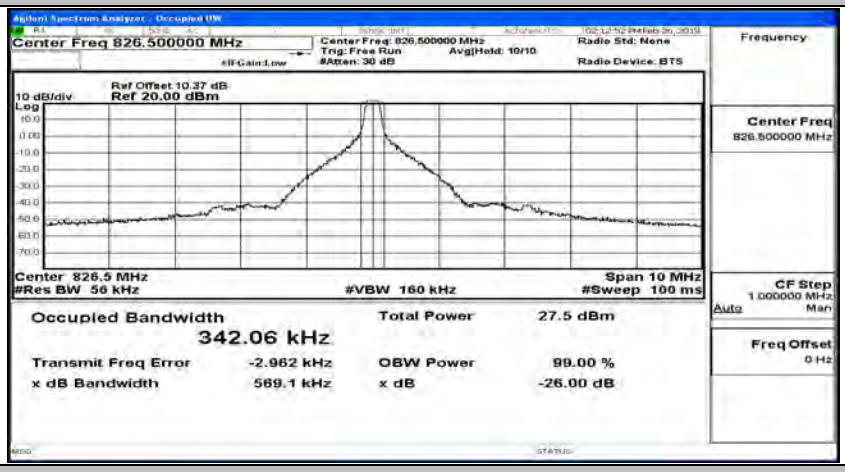


Channel Bandwidth: 5 MHz

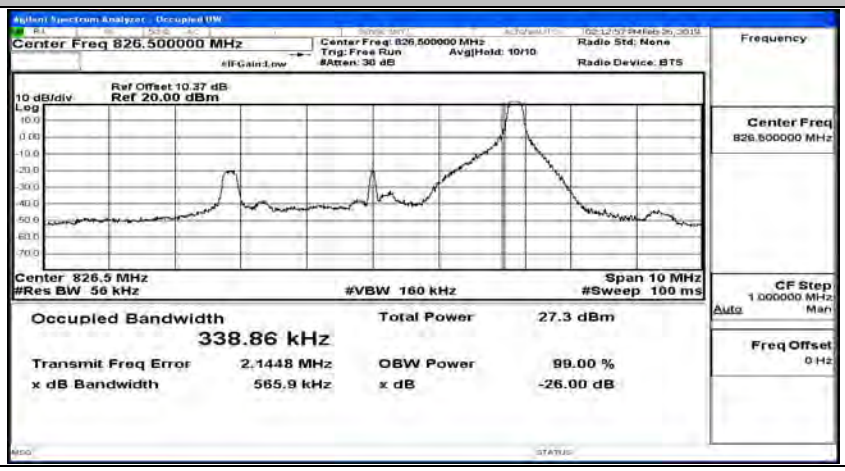
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#0



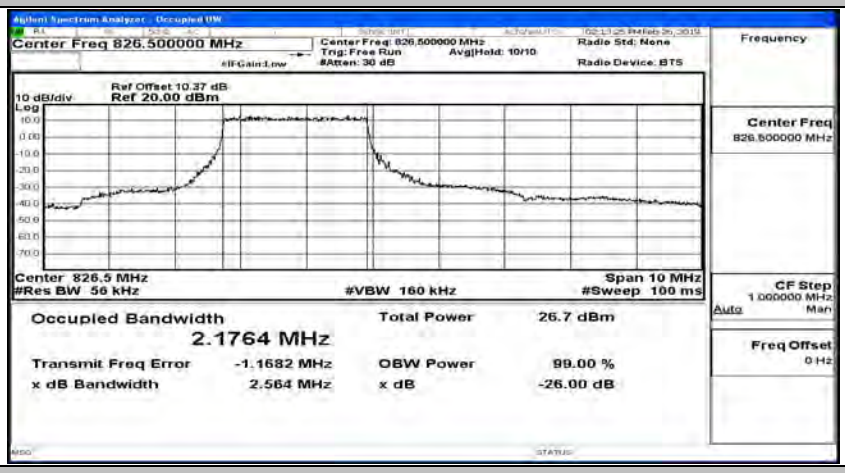
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#12



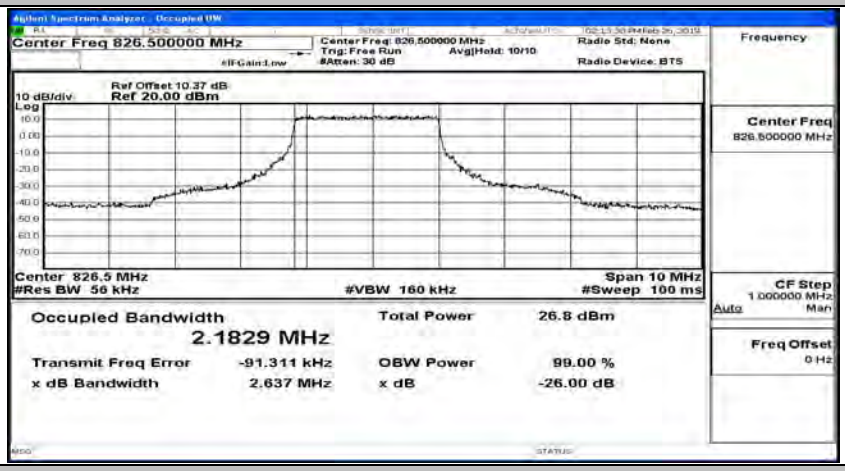
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#24



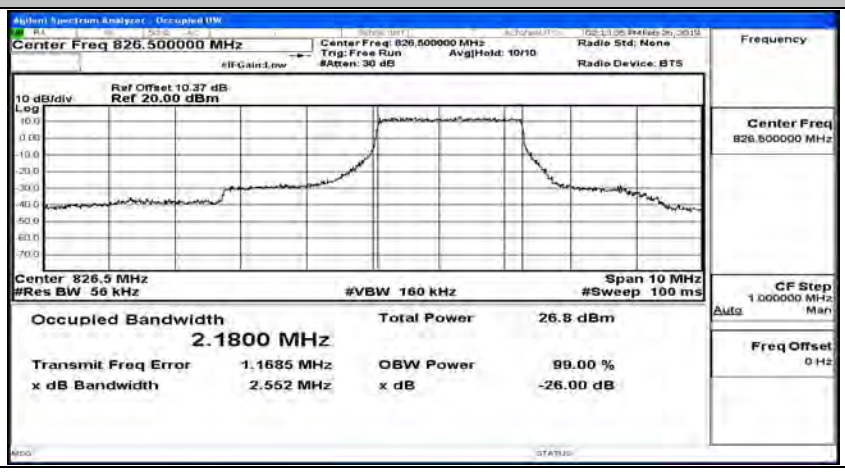
(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#0



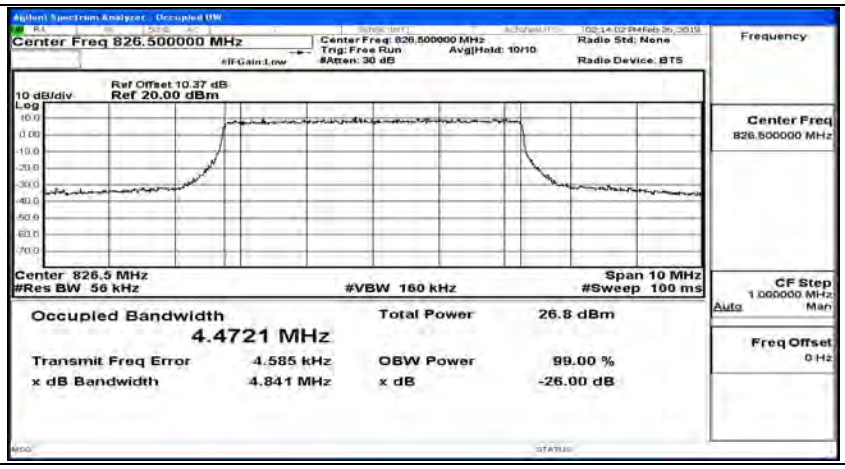
(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#6



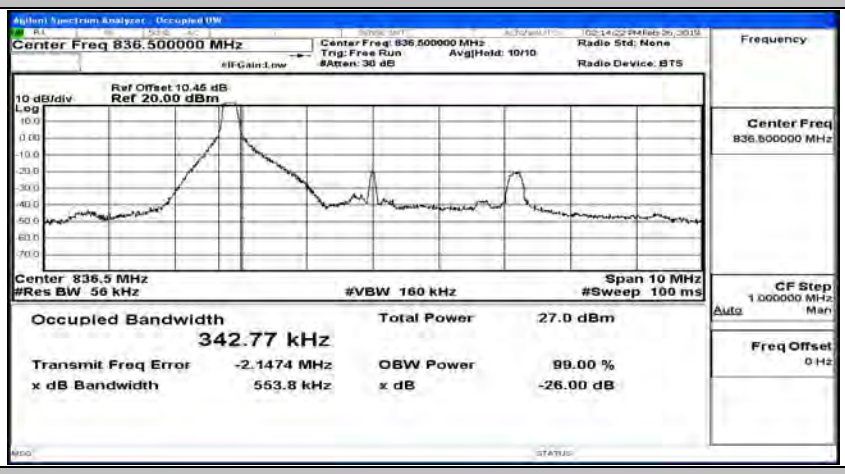
(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#13



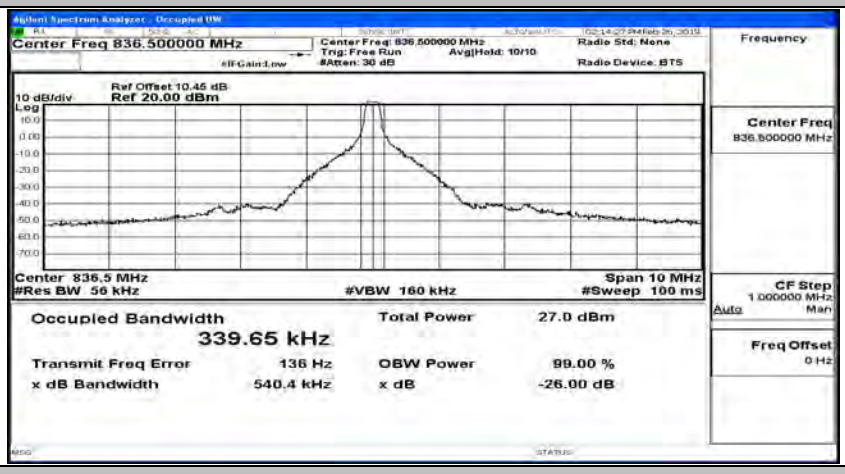
(Channel Bandwidth: 5 MHz)_LCH_QPSK_25RB#0



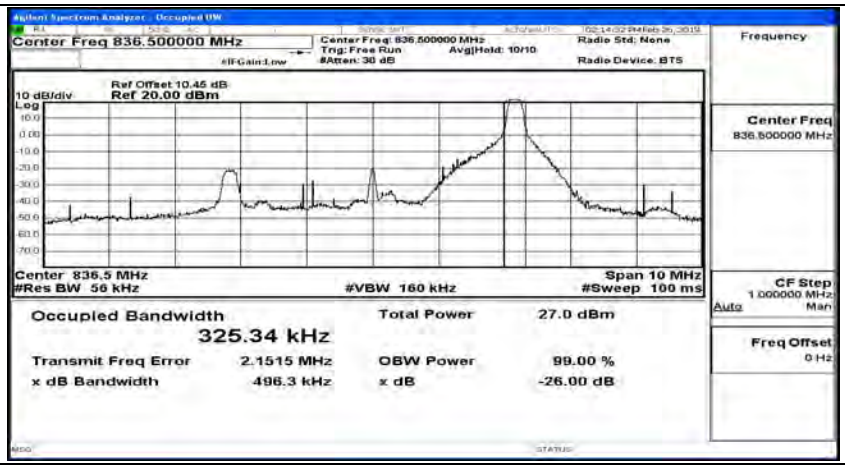
(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#0



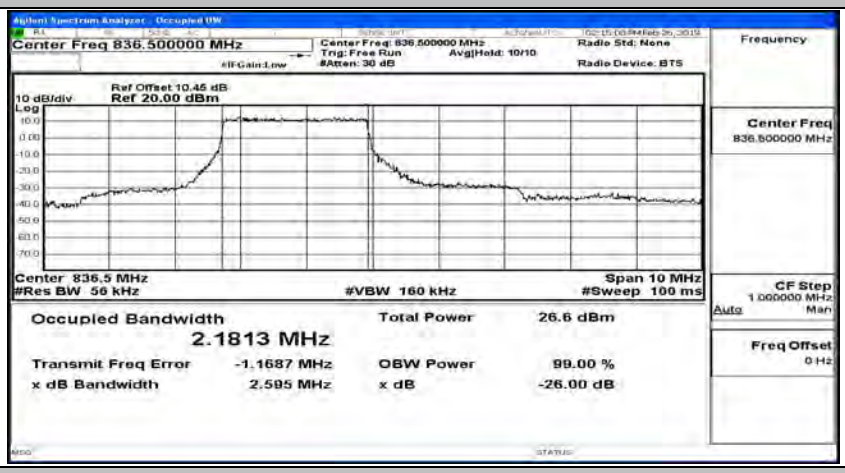
(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#12



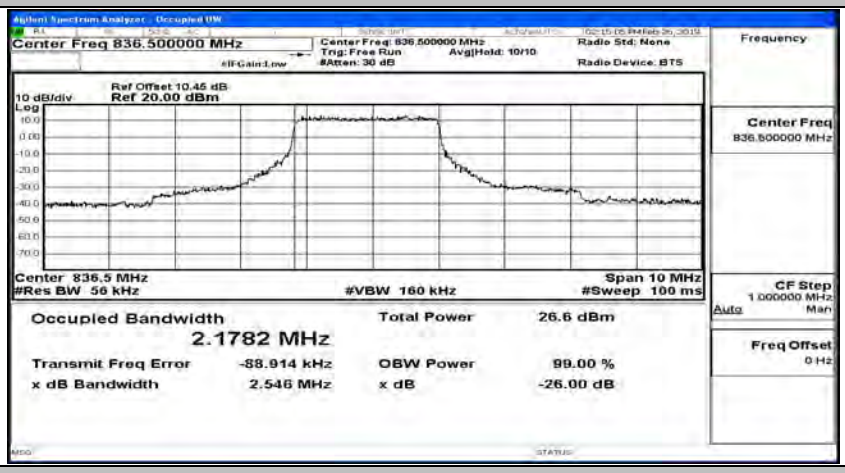
(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#24



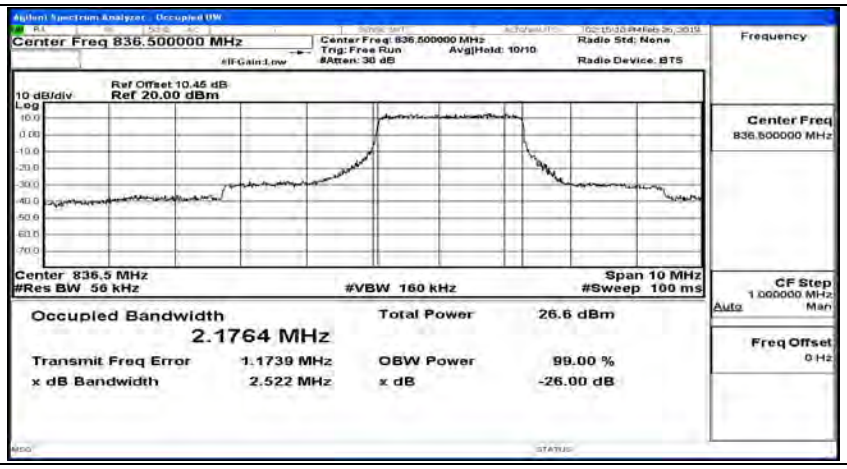
(Channel Bandwidth: 5 MHz)_MCH_QPSK_12RB#0



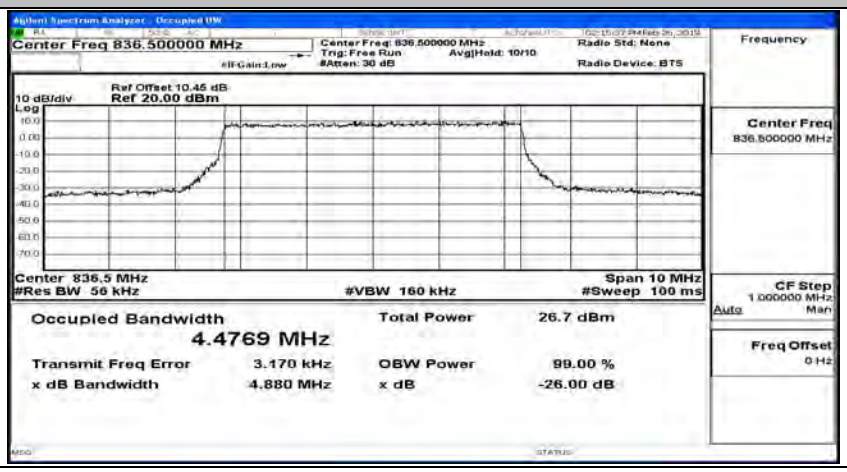
(Channel Bandwidth: 5 MHz)_MCH_QPSK_12RB#6



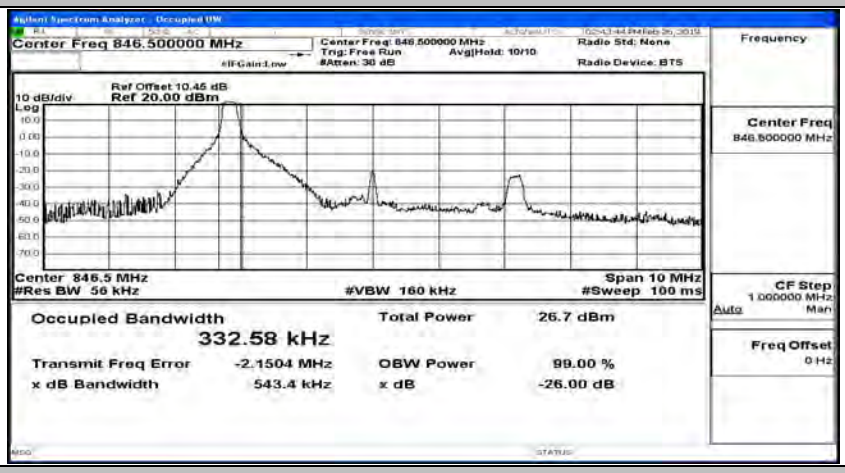
(Channel Bandwidth: 5 MHz)_MCH_QPSK_12RB#13



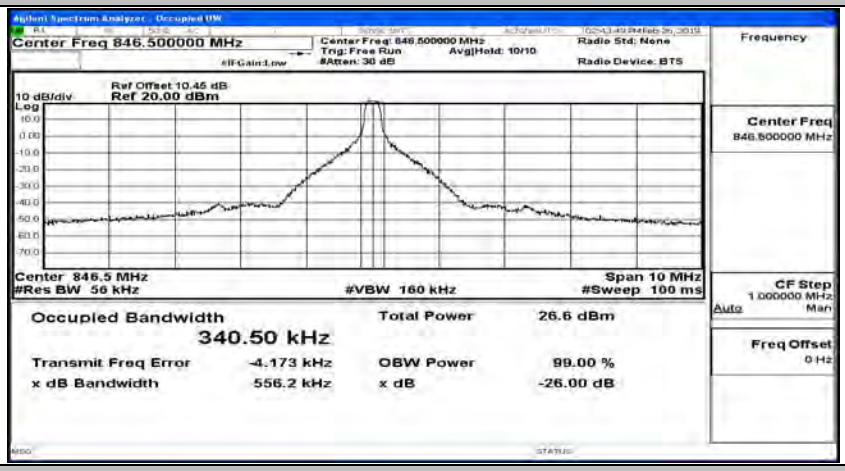
(Channel Bandwidth: 5 MHz)_MCH_QPSK_25RB#0



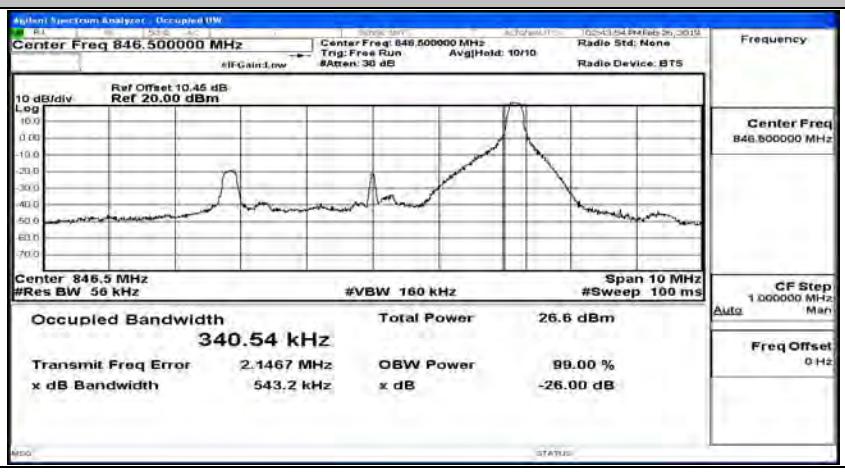
(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#0



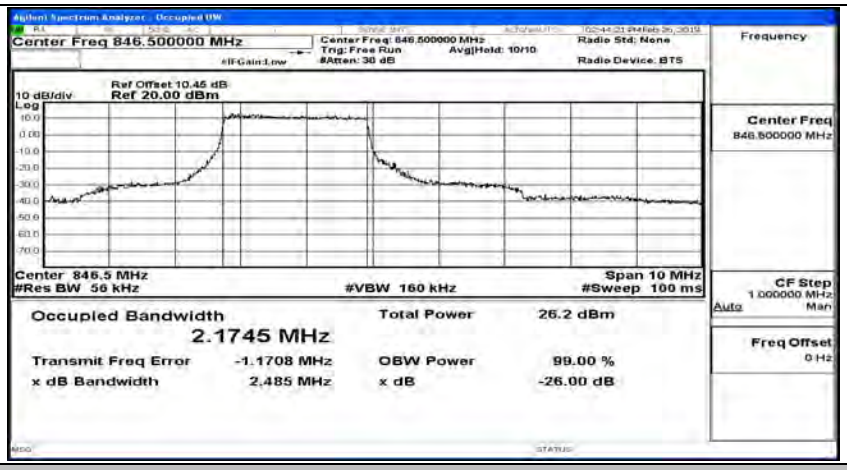
(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#12



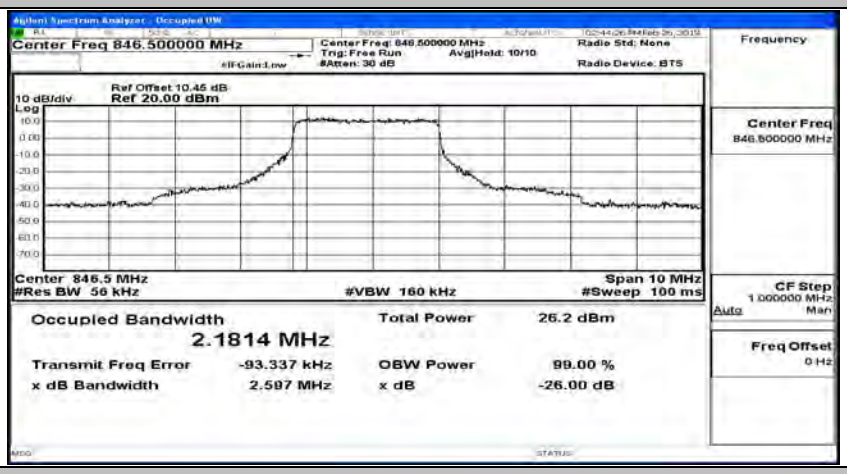
(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#24



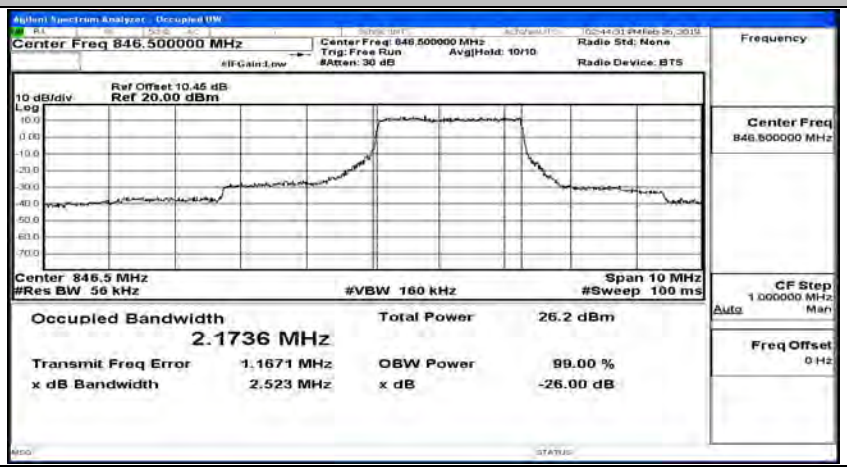
(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#0



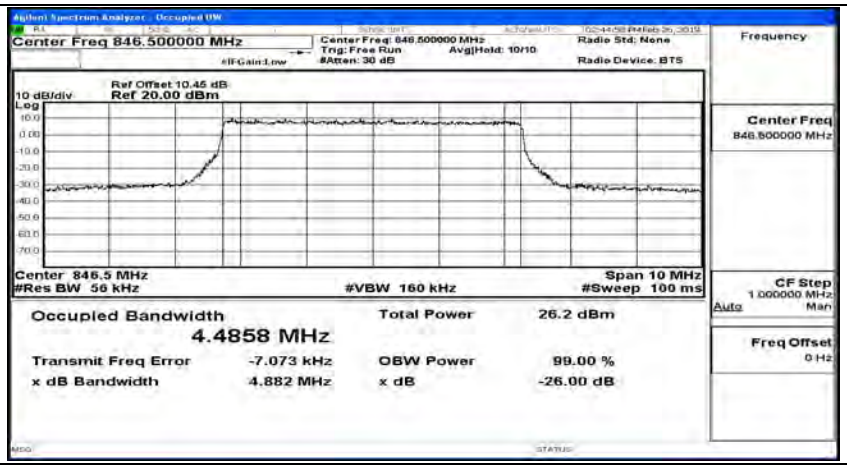
(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#6



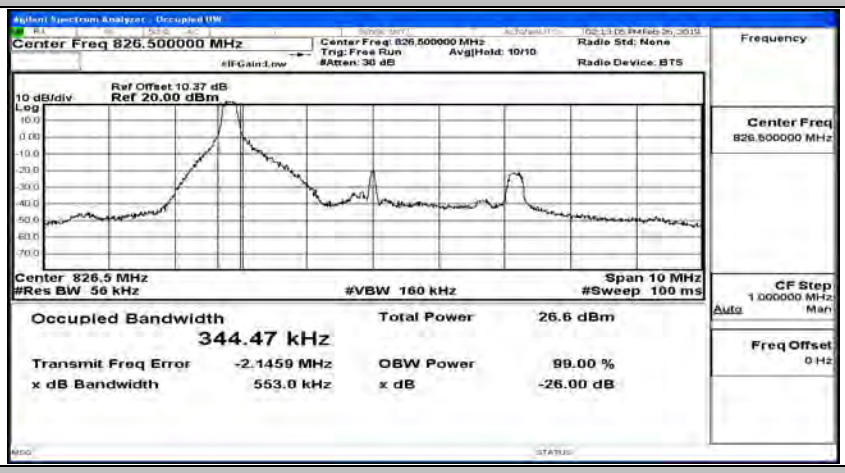
(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#13



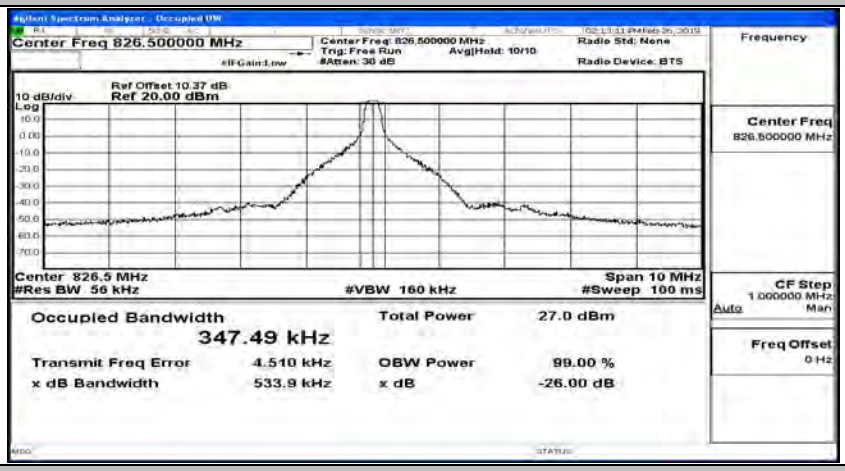
(Channel Bandwidth: 5 MHz)_HCH_QPSK_25RB#0


Agilent Spectrum Analyzer - Occupied BW
Center Freq 846.500000 MHz
Center Freq: 846.500000 MHz
Trig: Free Run
Avg|Hold: 10/10
#Atten: 30 dB
Radio Std: None
Radio Device: BTS
Frequency
Ref Offset 10.45 dB
10 dB/div
Ref 20.00 dBm
Log
Center Freq
846.500000 MHz
Center 846.5 MHz
#Res BW 56 kHz
#VBW 160 kHz
Span 10 MHz
#Sweep 100 ms
CF Step
1.000000 MHz
Auto
Man
Occupied Bandwidth
4.4858 MHz
Total Power
26.2 dBm
Transmit Freq Error
-7.073 kHz
OBW Power
99.00 %
x dB Bandwidth
4.882 MHz
x dB
-26.00 dB
Freq Offset
0 Hz

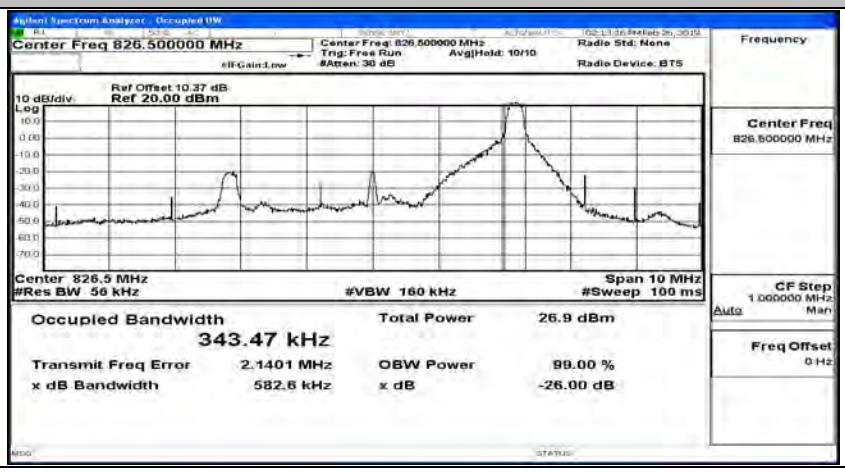
(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#0



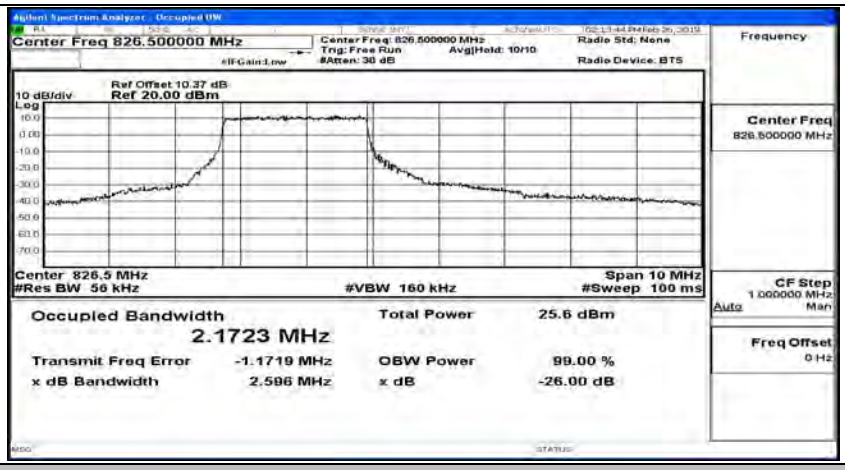
(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#12



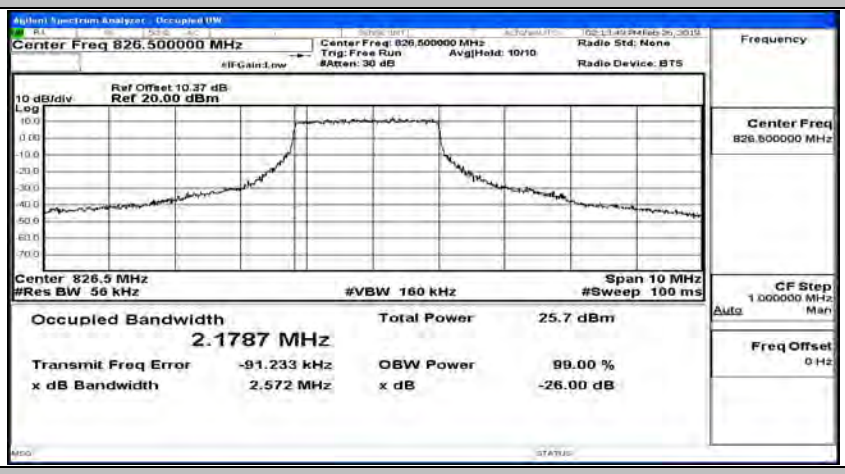
(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#24



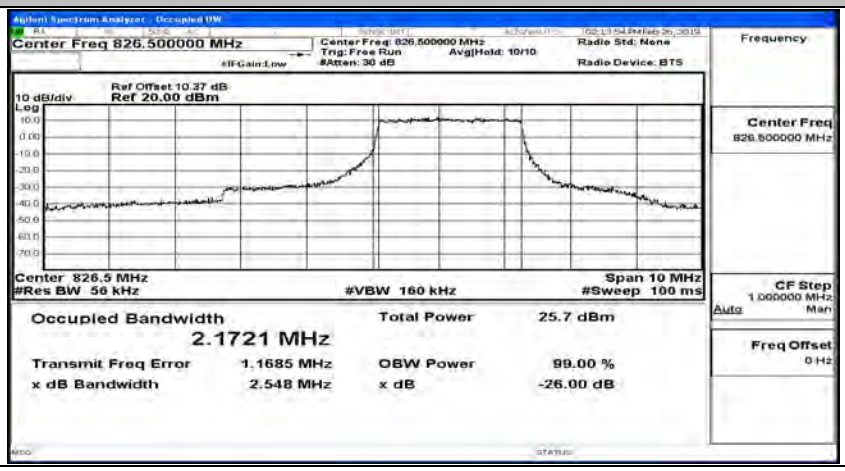
(Channel Bandwidth: 5 MHz)_LCH_16QAM_12RB#0



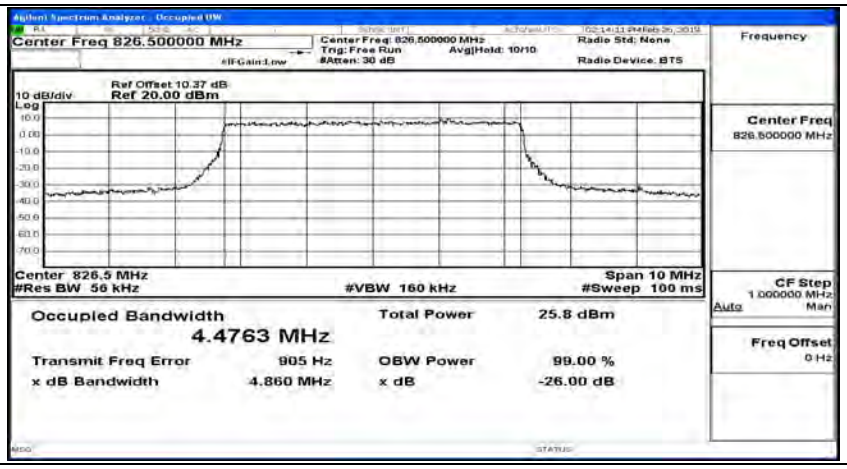
(Channel Bandwidth: 5 MHz)_LCH_16QAM_12RB#6



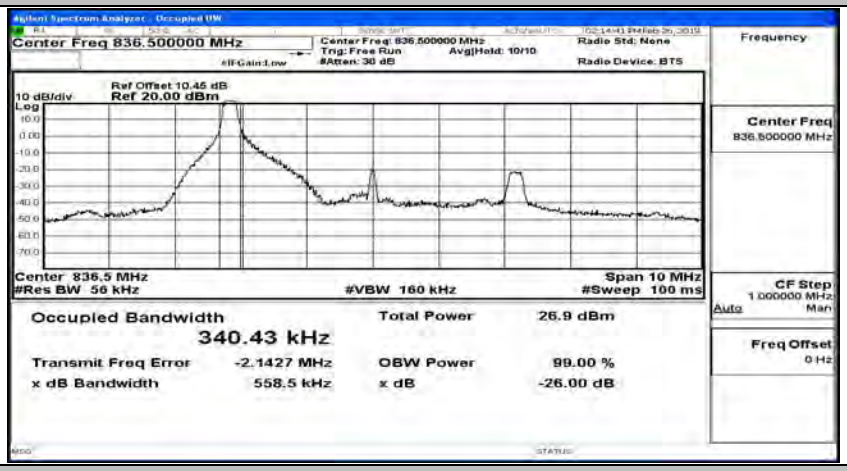
(Channel Bandwidth: 5 MHz)_LCH_16QAM_12RB#13



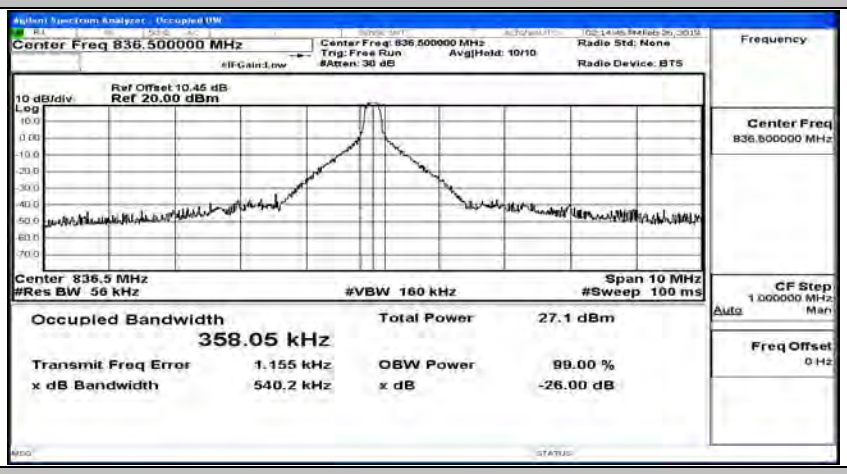
(Channel Bandwidth: 5 MHz)_LCH_16QAM_25RB#0



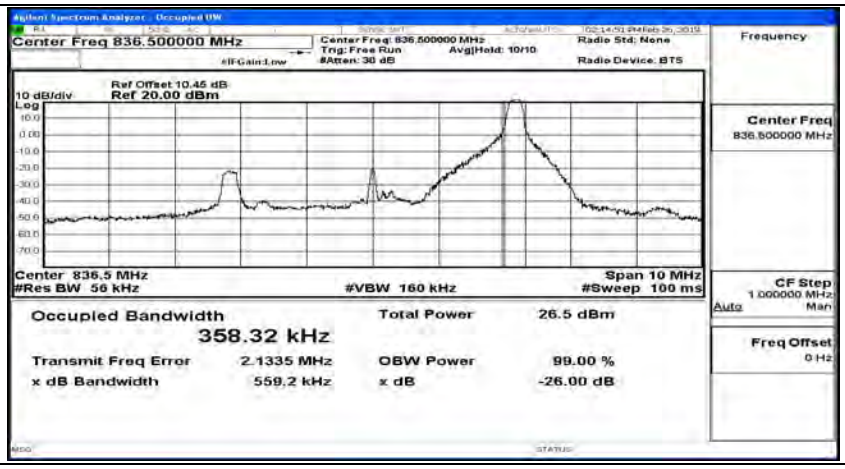
(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#0



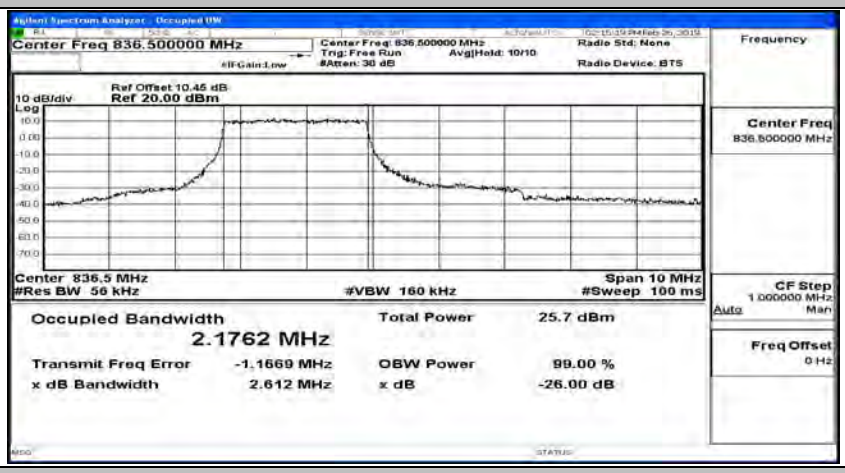
(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#12



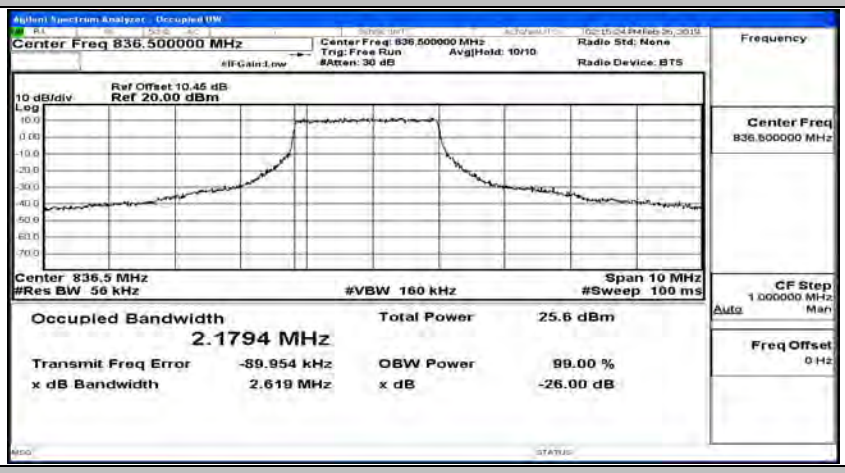
(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#24



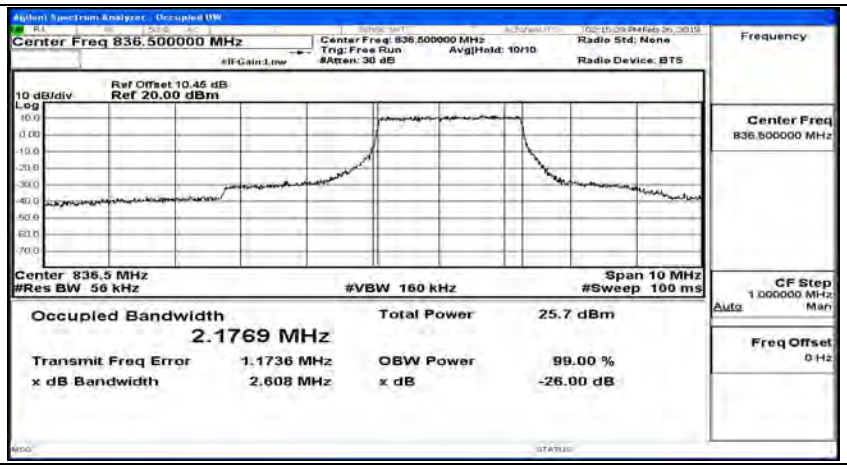
(Channel Bandwidth: 5 MHz)_MCH_16QAM_12RB#0



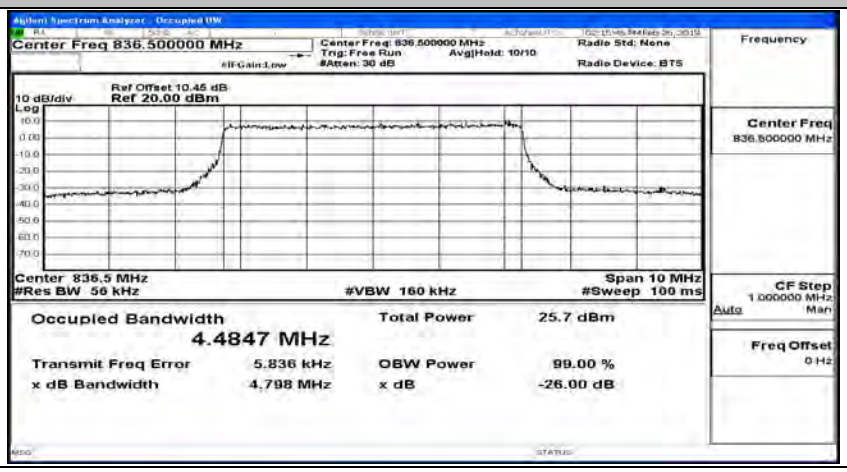
(Channel Bandwidth: 5 MHz)_MCH_16QAM_12RB#6



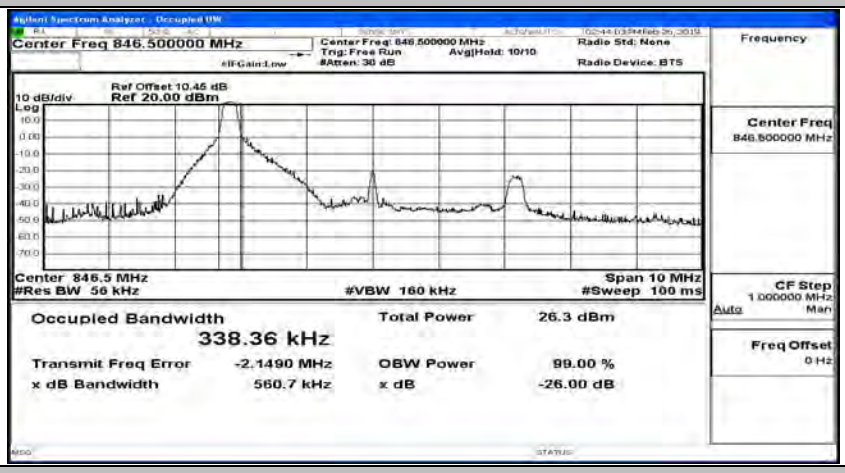
(Channel Bandwidth: 5 MHz)_MCH_16QAM_12RB#13



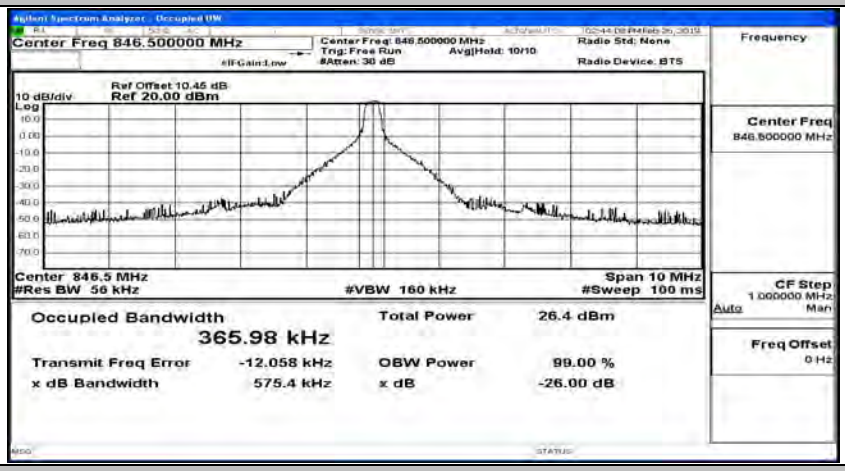
(Channel Bandwidth: 5 MHz)_MCH_16QAM_25RB#0



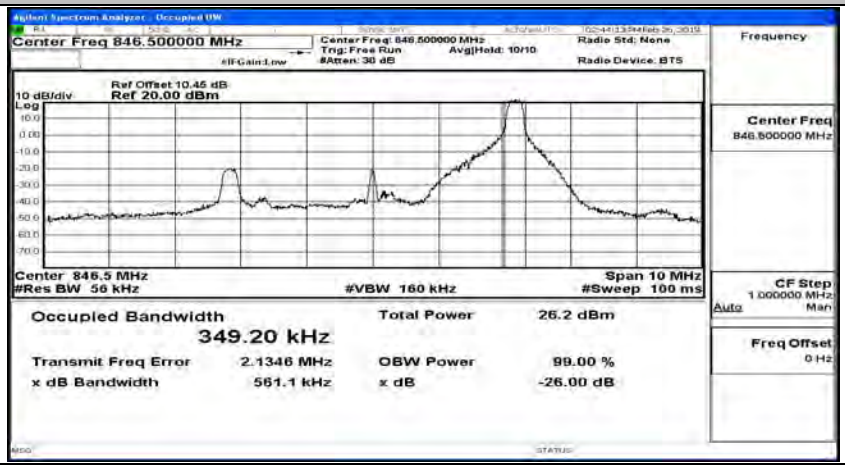
(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#0



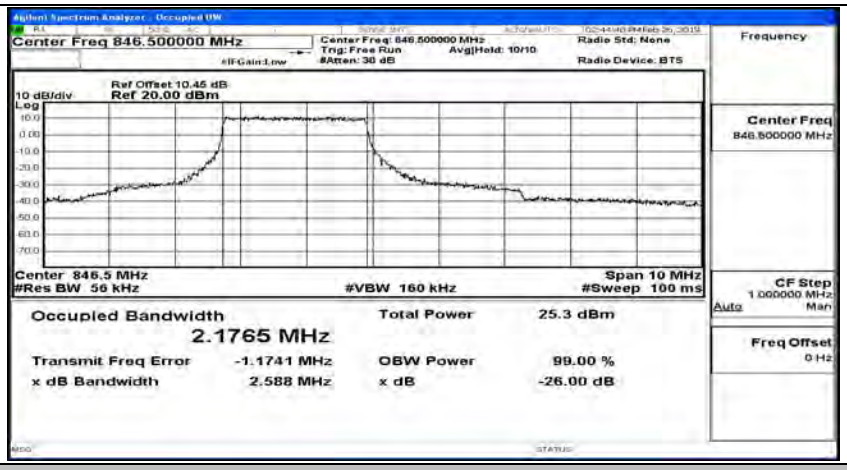
(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#12



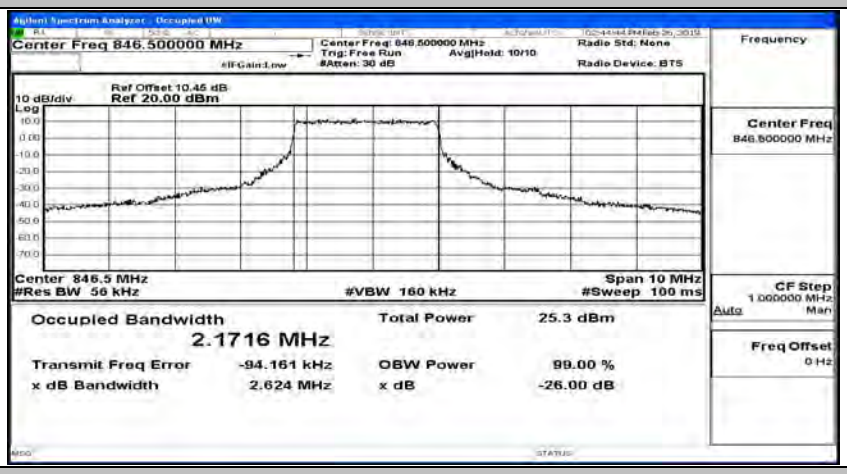
(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#24



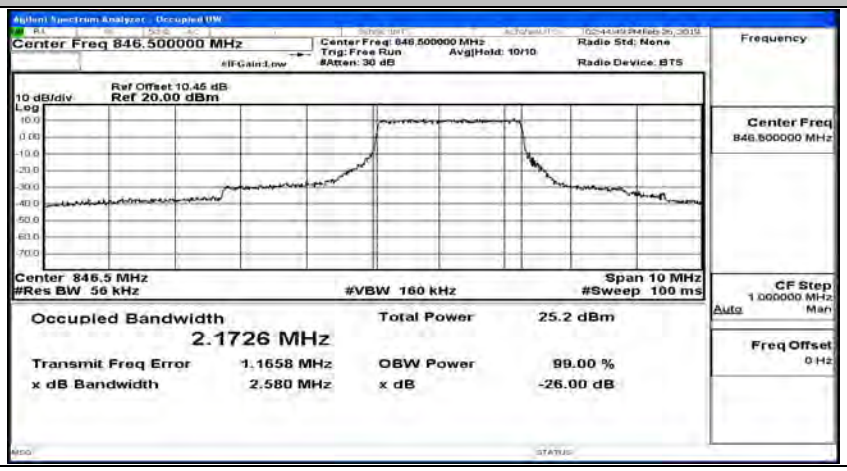
(Channel Bandwidth: 5 MHz)_HCH_16QAM_12RB#0



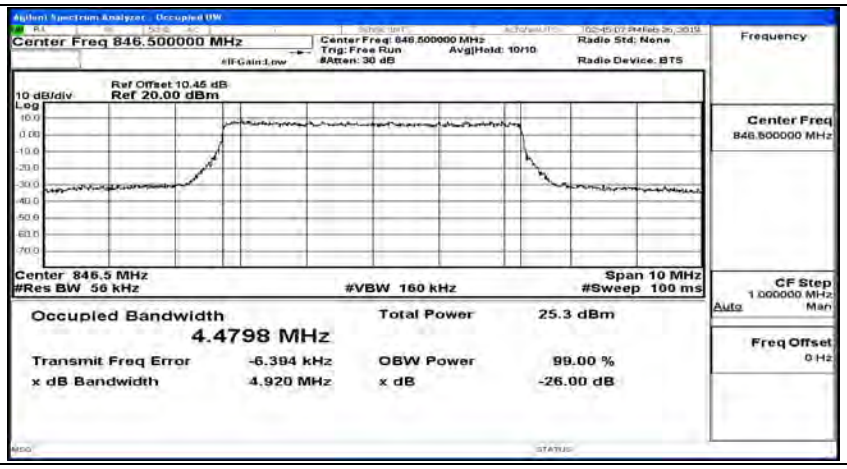
(Channel Bandwidth: 5 MHz)_HCH_16QAM_12RB#6



(Channel Bandwidth: 5 MHz)_HCH_16QAM_12RB#13

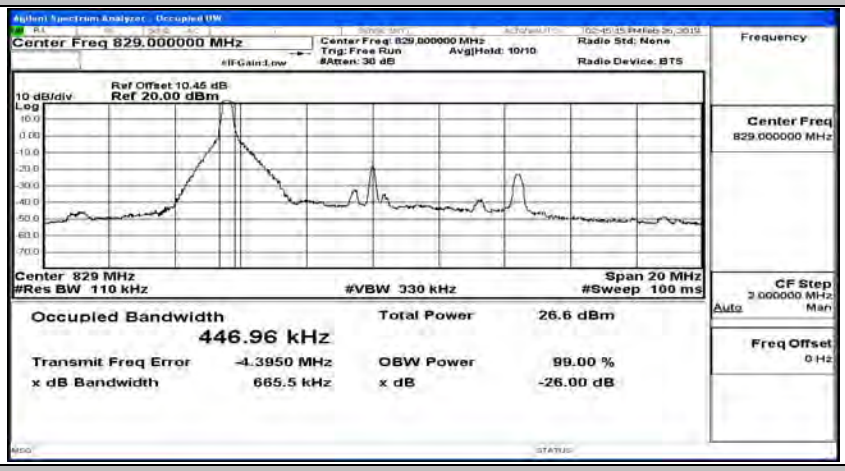


(Channel Bandwidth: 5 MHz)_HCH_16QAM_25RB#0

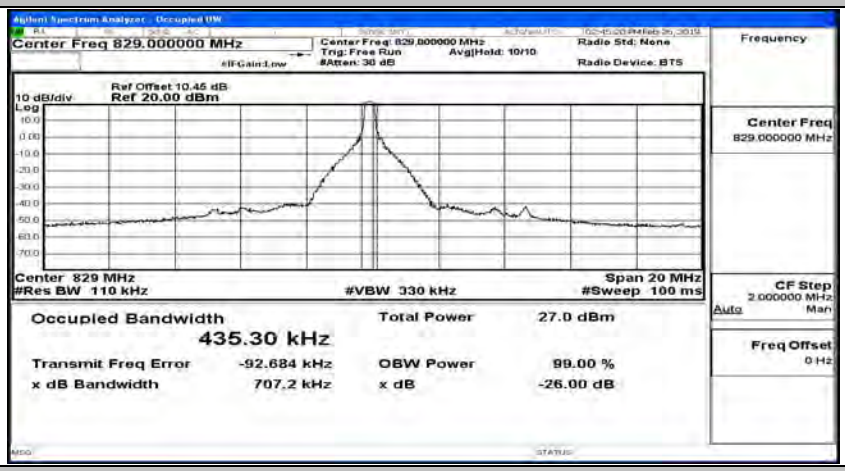

Agilent Spectrum Analyzer - Occupied BW
Center Freq 846.500000 MHz
Center Freq: 846.500000 MHz
Trig: Free Run
Avg|Hold: 10/10
#Atten: 30 dB
Radio Std: None
Radio Device: BTS
Frequency
Ref Offset 10.45 dB
10 dB/div
Ref 20.00 dBm
Log
Center Freq
846.500000 MHz
Center 846.5 MHz
#Res BW 56 kHz
#VBW 160 kHz
Span 10 MHz
#Sweep 100 ms
CF Step
1.000000 MHz
Auto
Man
Occupied Bandwidth
4.4798 MHz
Total Power
25.3 dBm
Transmit Freq Error
-6.394 kHz
OBW Power
99.00 %
x dB Bandwidth
4.920 MHz
x dB
-26.00 dB
Freq Offset
0 Hz

Channel Bandwidth: 10 MHz

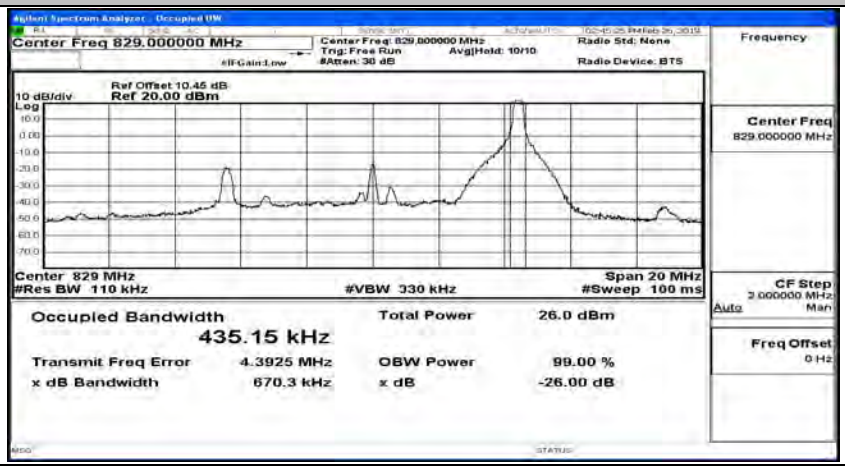
Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#0



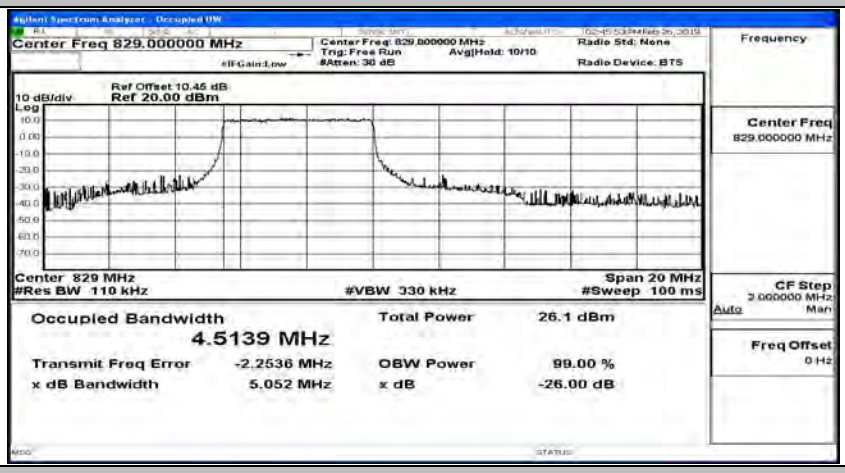
Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#25



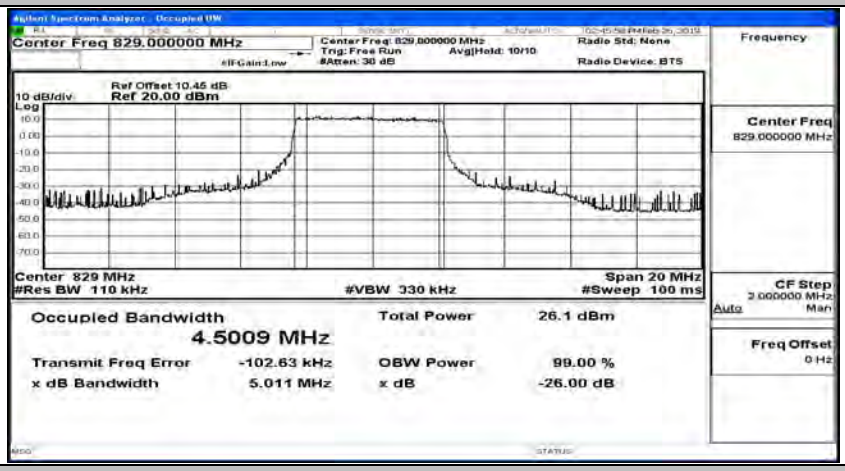
Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#49



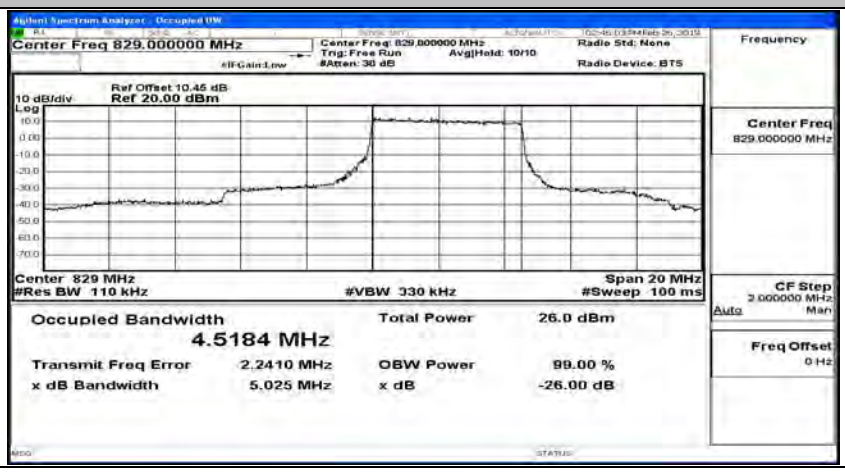
Channel Bandwidth: 10 MHz_LCH_QPSK_25RB#0



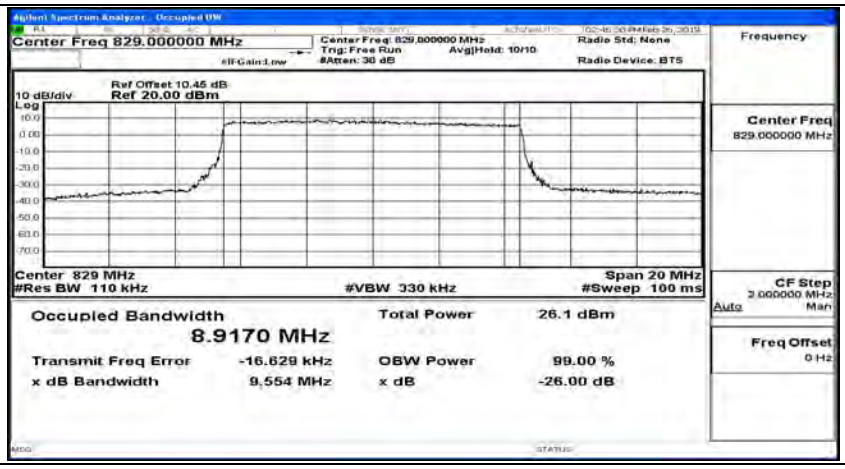
Channel Bandwidth: 10 MHz_LCH_QPSK_25RB#12



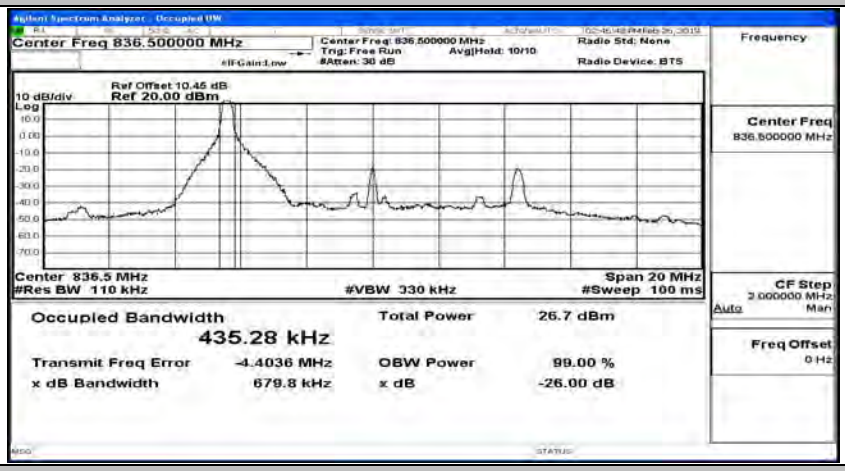
Channel Bandwidth: 10 MHz_LCH_QPSK_25RB#25



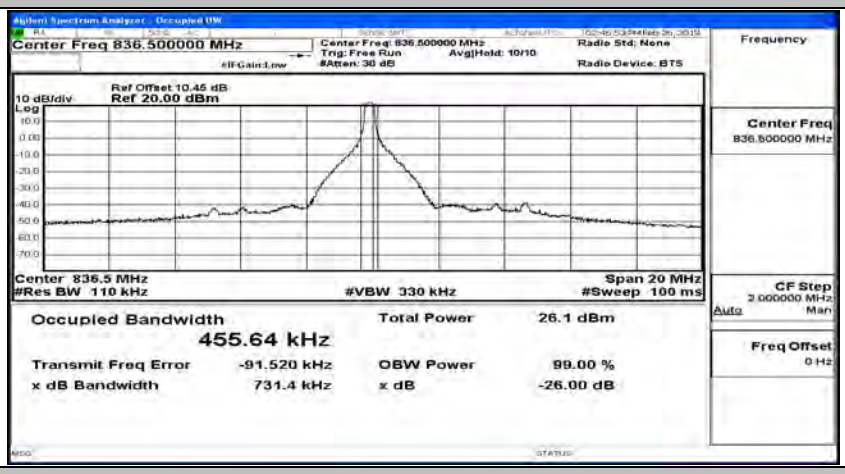
Channel Bandwidth: 10 MHz_LCH_QPSK_50RB#0



Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#0



Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#25



Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#49