Appendix for Band 5

Appendix A: Average Power Output Data

Test Result

Channel Bandwidth: 1.4 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	24.03	PASS
		1	3	24.02	PASS
		1	5	24.03	PASS
		3	0	23.04	PASS
		3	2	23.24	PASS
		3	3	23.29	PASS
		6	0	22.98	PASS
	MCH	1	0	23.00	PASS
		1	3	22.75	PASS
		1	5	22.89	PASS
		3	0	22.82	PASS
		3	2	22.73	PASS
		3	3	22.71	PASS
		6	0	21.83	PASS
	HCH	1	0	23.70	PASS
		1	3	23.31	PASS
		1	5	23.39	PASS
		3	0	23.32	PASS
		3	2	23.36	PASS
		3	3	23.31	PASS
		6	0	22.65	PASS
16QAM	LCH	1	0	23.39	PASS
		1	3	23.35	PASS
		1	5	23.35	PASS
		3	0	23.00	PASS
		3	2	22.98	PASS
		3	3	23.02	PASS
		6	0	21.93	PASS
	MCH	1	0	22.32	PASS
		1	3	22.14	PASS
		1	5	22.27	PASS
		3	0	21.98	PASS

		3	2	21.89	PASS
		3	3	21.92	PASS
		6	0	21.06	PASS
	HCH	1	0	23.03	PASS
		1	3	22.76	PASS
		1	5	22.79	PASS
		3	0	22.88	PASS
		3	2	22.71	PASS
		3	3	22.66	PASS
		6	0	21.73	PASS

Channel Bandwidth: 3 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	23.98	PASS
		1	7	24.02	PASS
		1	14	23.93	PASS
		8	0	23.02	PASS
		8	4	22.99	PASS
		8	7	22.95	PASS
		15	0	22.95	PASS
	MCH	1	0	23.07	PASS
		1	7	22.82	PASS
		1	14	23.12	PASS
		8	0	21.95	PASS
		8	4	21.92	PASS
		8	7	21.99	PASS
		15	0	21.94	PASS
	HCH	1	0	23.79	PASS
		1	7	23.73	PASS
		1	14	23.58	PASS
		8	0	22.83	PASS
		8	4	22.82	PASS
		8	7	22.80	PASS
		15	0	22.79	PASS
16QAM	LCH	1	0	23.22	PASS
		1	7	23.25	PASS
		1	14	23.14	PASS
		8	0	22.04	PASS
		8	4	22.04	PASS
		8	7	21.98	PASS
		15	0	21.90	PASS

	MCH	1	0	22.47	PASS
		1	7	22.26	PASS
		1	14	22.59	PASS
		8	0	21.05	PASS
		8	4	21.02	PASS
		8	7	21.12	PASS
		15	0	21.04	PASS
	HCH	1	0	23.05	PASS
		1	7	23.06	PASS
		1	14	22.95	PASS
		8	0	21.78	PASS
		8	4	21.77	PASS
		8	7	21.79	PASS
		15	0	21.80	PASS

Channel Bandwidth: 5 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	24.13	PASS
		1	12	24.03	PASS
		1	24	24.01	PASS
		12	0	23.03	PASS
		12	6	23.00	PASS
		12	13	23.00	PASS
		25	0	22.97	PASS
	MCH	1	0	23.14	PASS
		1	12	22.53	PASS
		1	24	23.03	PASS
		12	0	21.55	PASS
		12	6	21.51	PASS
		12	13	21.59	PASS
		25	0	21.52	PASS
	HCH	1	0	24.00	PASS
		1	12	23.78	PASS
		1	24	23.42	PASS
		12	0	22.92	PASS
		12	6	22.90	PASS
		12	13	22.49	PASS
		25	0	22.86	PASS
16QAM	LCH	1	0	23.32	PASS
		1	12	23.29	PASS
		1	24	23.22	PASS

		12	0	22.05	PASS
		12	6	22.03	PASS
		12	13	22.02	PASS
		25	0	21.94	PASS
	MCH	1	0	22.44	PASS
		1	12	21.75	PASS
		1	24	22.38	PASS
		12	0	20.77	PASS
		12	6	20.64	PASS
		12	13	20.82	PASS
		25	0	20.67	PASS
	HCH	1	0	23.12	PASS
		1	12	23.02	PASS
		1	24	22.70	PASS
		12	0	21.86	PASS
		12	6	21.86	PASS
		12	13	21.64	PASS
		25	0	21.83	PASS

Channel Bandwidth: 10 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	24.15	PASS
		1	24	23.99	PASS
		1	49	22.72	PASS
		25	0	23.48	PASS
		25	12	22.97	PASS
		25	25	22.49	PASS
		50	0	22.95	PASS
	MCH	1	0	23.45	PASS
		1	24	22.57	PASS
		1	49	23.66	PASS
		25	0	21.86	PASS
		25	12	21.54	PASS
		25	25	21.89	PASS
		50	0	21.86	PASS
	HCH	1	0	23.47	PASS
		1	24	23.92	PASS
		1	49	23.11	PASS
		25	0	22.85	PASS
		25	12	22.85	PASS
		25	25	22.84	PASS

		50	0	22.85	PASS
16QAM	LCH	1	0	23.33	PASS
		1	24	23.25	PASS
		1	49	22.14	PASS
		25	0	21.97	PASS
		25	12	21.94	PASS
		25	25	21.68	PASS
		50	0	21.91	PASS
	MCH	1	0	22.91	PASS
		1	24	21.95	PASS
		1	49	23.16	PASS
		25	0	21.02	PASS
		25	12	20.70	PASS
		25	25	21.03	PASS
		50	0	21.04	PASS
	HCH	1	0	22.82	PASS
		1	24	23.15	PASS
		1	49	22.49	PASS
		25	0	21.82	PASS
		25	12	21.81	PASS
		25	25	21.79	PASS
		50	0	21.83	PASS

Appendix B: Peak-to-Average Ratio

Test Result

Channel Bandwidth: 1.4 MHz

Channel Bandwidth: 1.4 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio (dB)	Limit (dB)	Verdict
		Size	Offset			
QPSK	LCH	1	0	5.2	<13	PASS
		1	3	5.25	<13	PASS
		1	5	5.15	<13	PASS
		3	0	5.8	<13	PASS
		3	2	5.88	<13	PASS
		3	3	5.89	<13	PASS
		6	0	6.09	<13	PASS
	MCH	1	0	5.45	<13	PASS
		1	3	5.46	<13	PASS
		1	5	5.52	<13	PASS
		3	0	6.14	<13	PASS
		3	2	6.13	<13	PASS
		3	3	6.2	<13	PASS
		6	0	6.13	<13	PASS
	HCH	1	0	4.95	<13	PASS
		1	3	5.12	<13	PASS
		1	5	5.12	<13	PASS
		3	0	5.58	<13	PASS
		3	2	5.78	<13	PASS
		3	3	5.72	<13	PASS
		6	0	5.92	<13	PASS
16QAM	LCH	1	0	6.26	<13	PASS
		1	3	6.15	<13	PASS
		1	5	6.31	<13	PASS
		3	0	6.76	<13	PASS
		3	2	6.85	<13	PASS
		3	3	6.72	<13	PASS
		6	0	6.83	<13	PASS
	MCH	1	0	6.13	<13	PASS
		1	3	6.32	<13	PASS
		1	5	6.16	<13	PASS
		3	0	6.81	<13	PASS

		3	2	6.7	<13	PASS
		3	3	6.76	<13	PASS
		6	0	7.25	<13	PASS
	HCH	1	0	5.96	<13	PASS
		1	3	5.95	<13	PASS
		1	5	5.87	<13	PASS
		3	0	6.53	<13	PASS
		3	2	6.6	<13	PASS
		3	3	6.65	<13	PASS
		6	0	6.72	<13	PASS

Channel Bandwidth: 3 MHz

Channel Bandwidth: 3 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio	Limit	Verdict
		Size	Offset	[dB]	[dB]	
QPSK	LCH	1	0	5.22	<13	PASS
		1	7	5.21	<13	PASS
		1	14	5.26	<13	PASS
		8	0	5.93	<13	PASS
		8	4	6.17	<13	PASS
		8	7	5.97	<13	PASS
		15	0	5.99	<13	PASS
	MCH	1	0	5.3	<13	PASS
		1	7	5.39	<13	PASS
		1	14	5.51	<13	PASS
		8	0	6.43	<13	PASS
		8	4	6.38	<13	PASS
		8	7	6.53	<13	PASS
		15	0	6.46	<13	PASS
	HCH	1	0	4.97	<13	PASS
		1	7	5.26	<13	PASS
		1	14	5.18	<13	PASS
		8	0	5.84	<13	PASS
		8	4	6.01	<13	PASS
		8	7	5.95	<13	PASS
		15	0	5.88	<13	PASS
16QAM	LCH	1	0	6.13	<13	PASS
		1	7	6.05	<13	PASS
		1	14	6.02	<13	PASS
		8	0	6.68	<13	PASS
		8	4	6.63	<13	PASS

		8	7	6.41	<13	PASS
		15	0	6.82	<13	PASS
	MCH	1	0	5.98	<13	PASS
		1	7	6.13	<13	PASS
		1	14	6.33	<13	PASS
		8	0	6.98	<13	PASS
		8	4	6.93	<13	PASS
		8	7	6.91	<13	PASS
		15	0	7.2	<13	PASS
	HCH	1	0	5.75	<13	PASS
		1	7	5.83	<13	PASS
		1	14	5.99	<13	PASS
		8	0	6.81	<13	PASS
		8	4	6.99	<13	PASS
		8	7	7.06	<13	PASS
		15	0	6.65	<13	PASS

Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	LCH	1	0	5.39	<13	PASS
		1	12	5.26	<13	PASS
		1	24	5.44	<13	PASS
		12	0	6.07	<13	PASS
		12	6	5.92	<13	PASS
		12	13	5.86	<13	PASS
		25	0	5.93	<13	PASS
	MCH	1	0	5.26	<13	PASS
		1	12	5.66	<13	PASS
		1	24	5.49	<13	PASS
		12	0	6.18	<13	PASS
		12	6	6.08	<13	PASS
		12	13	6.17	<13	PASS
		25	0	6.4	<13	PASS
	HCH	1	0	4.91	<13	PASS
		1	12	4.96	<13	PASS
		1	24	5.27	<13	PASS
		12	0	5.6	<13	PASS
		12	6	5.71	<13	PASS
		12	13	6.05	<13	PASS

		25	0	5.9	<13	PASS
16QAM	LCH	1	0	6.08	<13	PASS
		1	12	6	<13	PASS
		1	24	5.76	<13	PASS
		12	0	6.84	<13	PASS
		12	6	6.89	<13	PASS
		12	13	6.7	<13	PASS
		25	0	6.49	<13	PASS
	MCH	1	0	6.26	<13	PASS
		1	12	6.77	<13	PASS
		1	24	6.68	<13	PASS
		12	0	6.89	<13	PASS
		12	6	6.96	<13	PASS
		12	13	6.9	<13	PASS
		25	0	7.01	<13	PASS
	HCH	1	0	5.78	<13	PASS
		1	12	5.88	<13	PASS
		1	24	6.19	<13	PASS
		12	0	6.27	<13	PASS
		12	6	6.41	<13	PASS
		12	13	6.54	<13	PASS
		25	0	6.5	<13	PASS

Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	LCH	1	0	5.25	<13	PASS
		1	24	4.96	<13	PASS
		1	49	5.75	<13	PASS
		25	0	5.86	<13	PASS
		25	12	5.82	<13	PASS
		25	25	5.98	<13	PASS
		50	0	5.7	<13	PASS
	MCH	1	0	5.07	<13	PASS
		1	24	5.51	<13	PASS
		1	49	5.28	<13	PASS
		25	0	6.33	<13	PASS
		25	12	6.39	<13	PASS
		25	25	6.47	<13	PASS
		50	0	6.42	<13	PASS

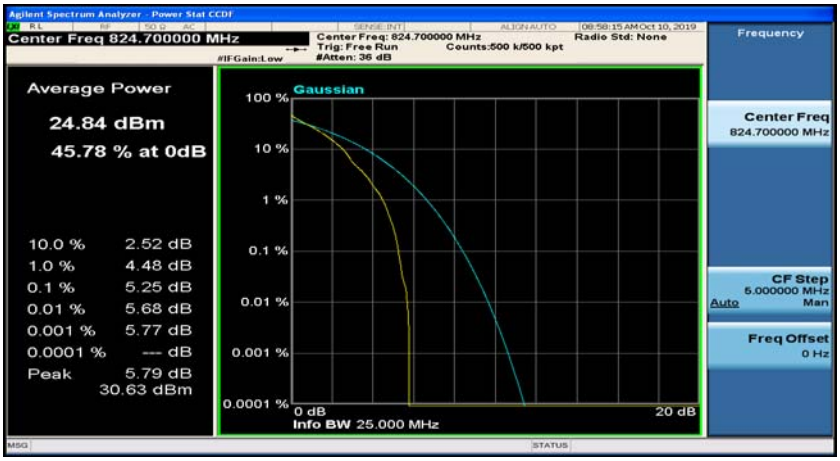
	HCH	1	0	5.55	<13	PASS
		1	24	4.92	<13	PASS
		1	49	5.55	<13	PASS
		25	0	5.95	<13	PASS
		25	12	5.6	<13	PASS
		25	25	5.65	<13	PASS
		50	0	5.65	<13	PASS
16QAM	LCH	1	0	6.03	<13	PASS
		1	24	5.87	<13	PASS
		1	49	6.2	<13	PASS
		25	0	6.5	<13	PASS
		25	12	6.57	<13	PASS
		25	25	6.66	<13	PASS
		50	0	6.46	<13	PASS
	MCH	1	0	5.87	<13	PASS
		1	24	6.12	<13	PASS
		1	49	6.13	<13	PASS
		25	0	6.9	<13	PASS
		25	12	7.18	<13	PASS
		25	25	7.2	<13	PASS
		50	0	6.97	<13	PASS
	HCH	1	0	6.34	<13	PASS
		1	24	6.05	<13	PASS
		1	49	6.32	<13	PASS
		25	0	6.79	<13	PASS
		25	12	6.45	<13	PASS
		25	25	6.5	<13	PASS
		50	0	6.44	<13	PASS

Test Graphs

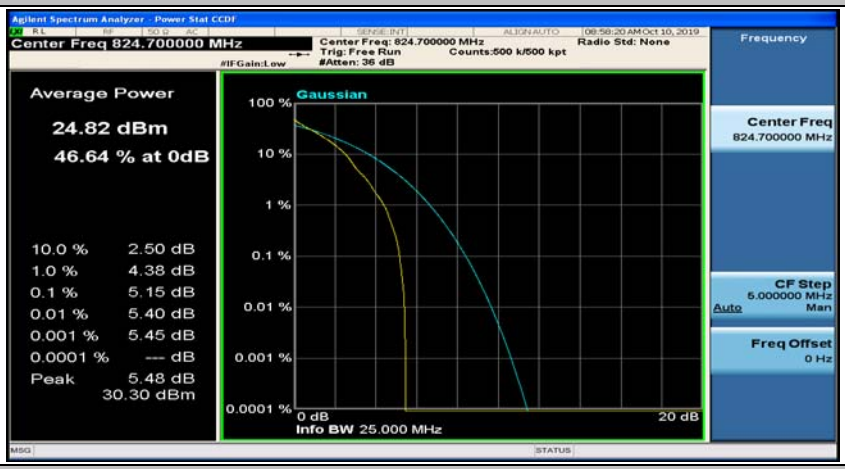
Channel Bandwidth: 1.4 MHz

(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#0

(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#3

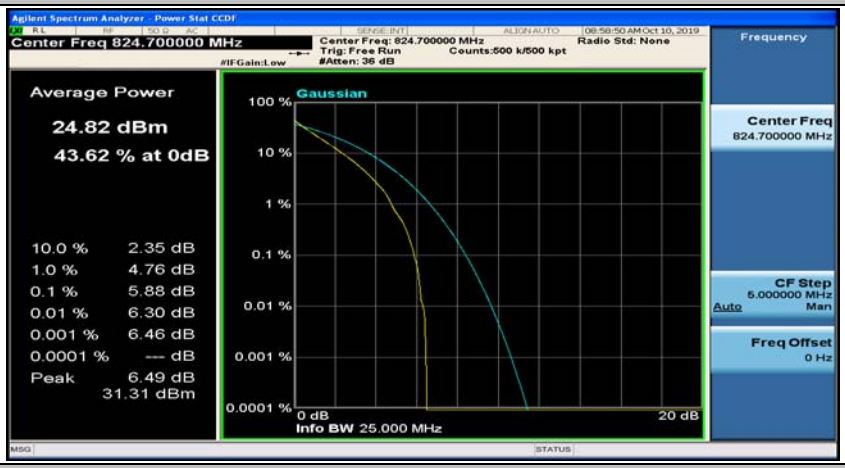


(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#5



(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_3RB#0

(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_3RB#2

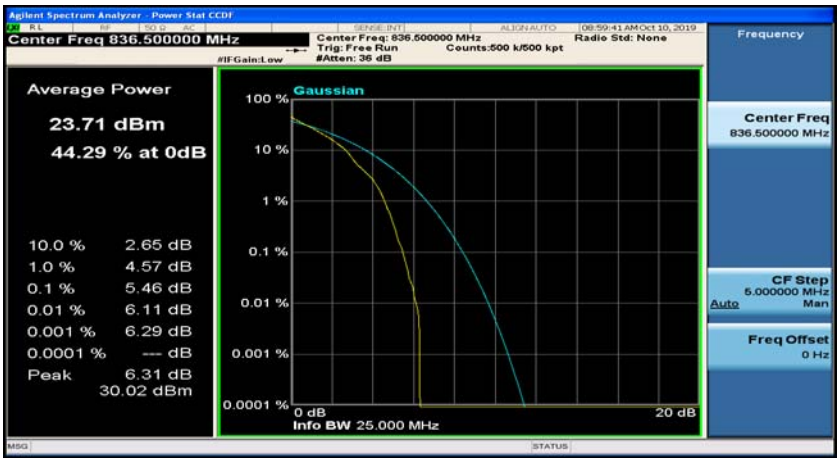


(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_3RB#3

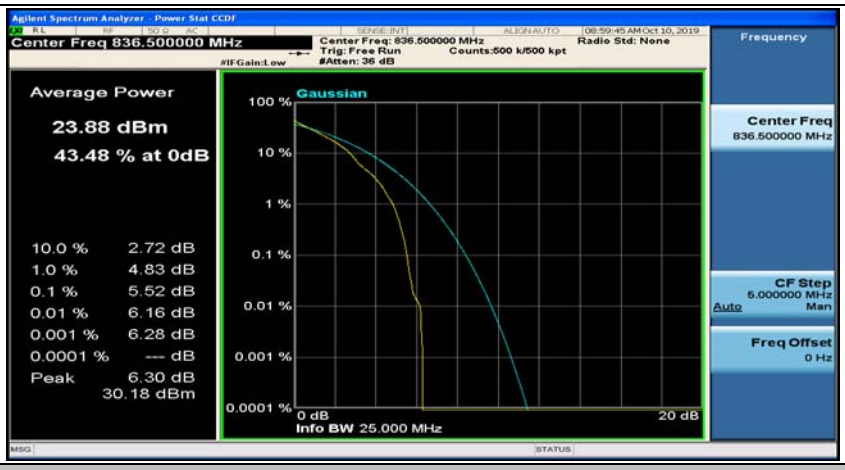
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_6RB#0

(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#0

(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#3



(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#5



(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_3RB#0

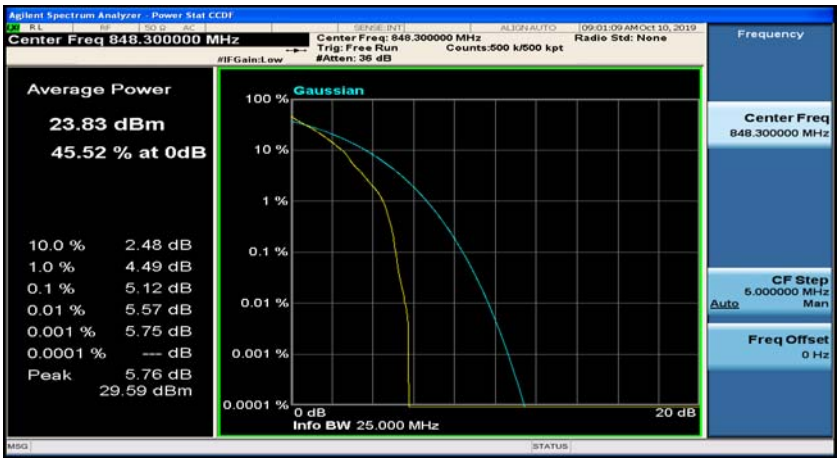
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_3RB#2

(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_3RB#3

(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_6RB#0

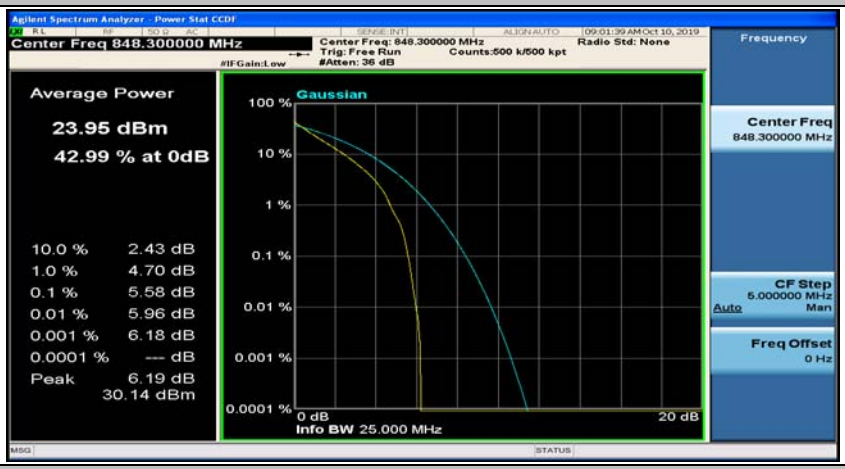
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#0

(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#3



(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#5

(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_3RB#0



(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_3RB#2

(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_3RB#3

(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_6RB#0

(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#0

(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#3

(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#5

(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_3RB#0

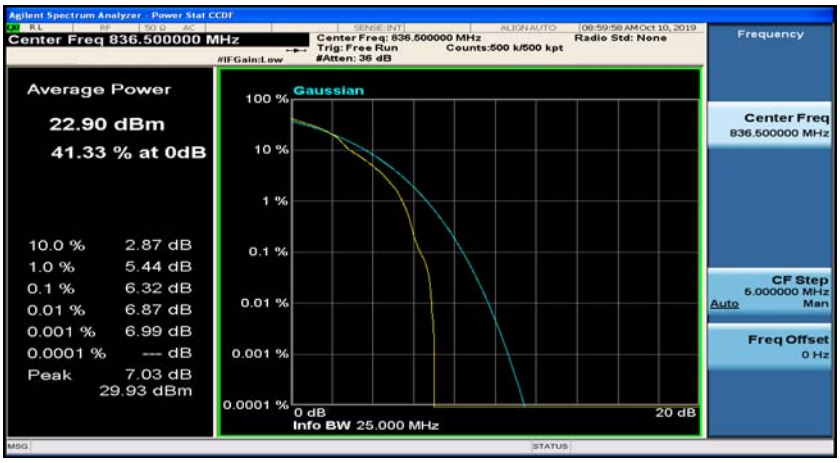
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_3RB#2

(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_3RB#3

(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_6RB#0

(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#0

(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#3



(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#5

(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_3RB#0

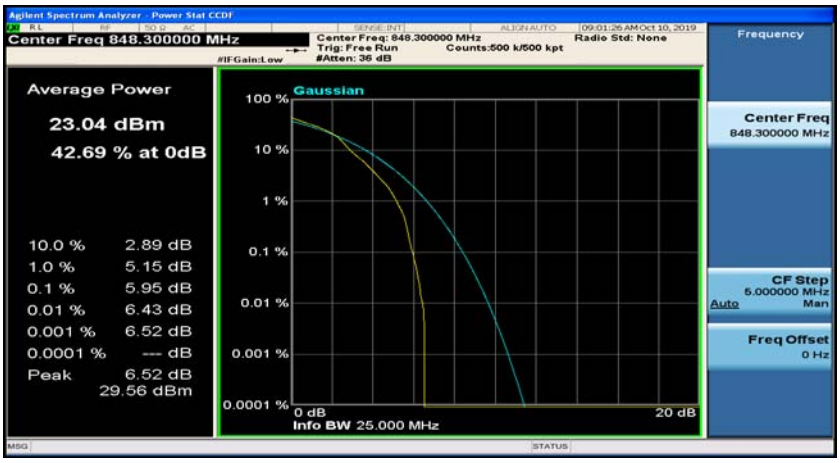
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_3RB#2

(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_3RB#3

(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_6RB#0

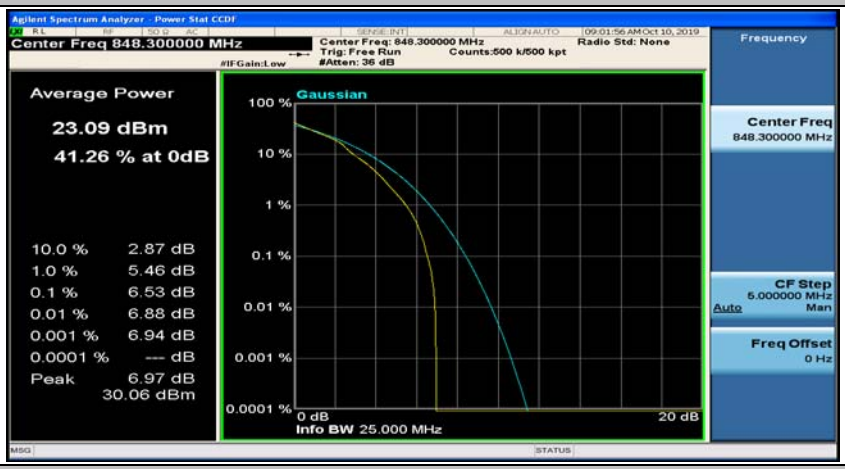
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#0

(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#3



(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#5

(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_3RB#0



(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_3RB#2

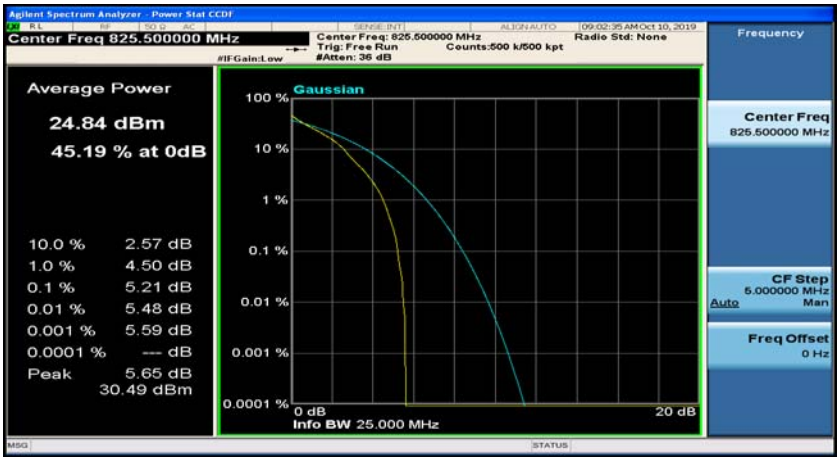
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_3RB#3

(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_6RB#0

Channel Bandwidth: 3 MHz

(Channel Bandwidth: 3 MHz)_LCH_QPSK_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

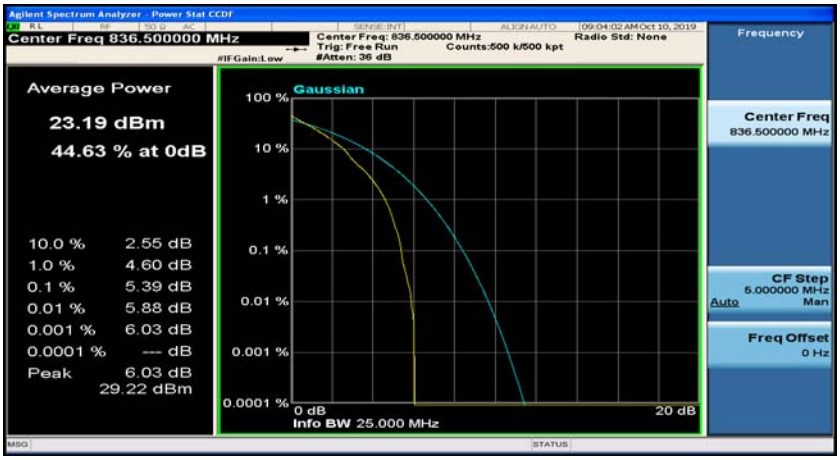
(Channel Bandwidth: 3 MHz)_LCH_QPSK_8RB#4

(Channel Bandwidth: 3 MHz)_LCH_QPSK_8RB#7

(Channel Bandwidth: 3 MHz)_LCH_QPSK_15RB#0

(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#0

(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#7



(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#14

(Channel Bandwidth: 3 MHz)_MCH_QPSK_8RB#0

(Channel Bandwidth: 3 MHz)_MCH_QPSK_8RB#4

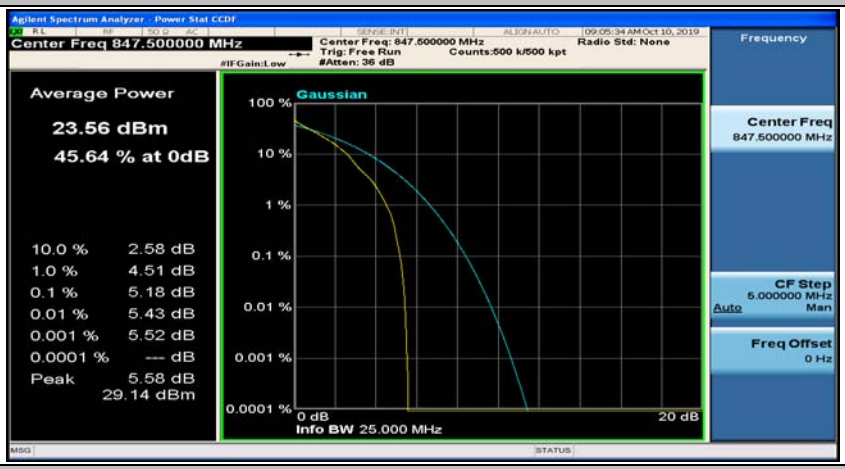
(Channel Bandwidth: 3 MHz)_MCH_QPSK_8RB#7

(Channel Bandwidth: 3 MHz)_MCH_QPSK_15RB#0

(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#0

(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#7

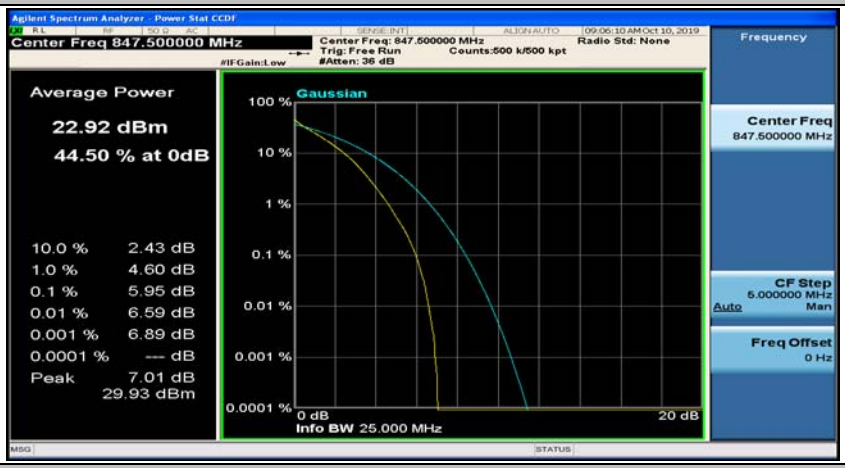
(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#14



(Channel Bandwidth: 3 MHz)_HCH_QPSK_8RB#0

(Channel Bandwidth: 3 MHz)_HCH_QPSK_8RB#4

(Channel Bandwidth: 3 MHz)_HCH_QPSK_8RB#7



(Channel Bandwidth: 3 MHz)_HCH_QPSK_15RB#0

(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#0

(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#7

(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#14

(Channel Bandwidth: 3 MHz)_LCH_16QAM_8RB#0

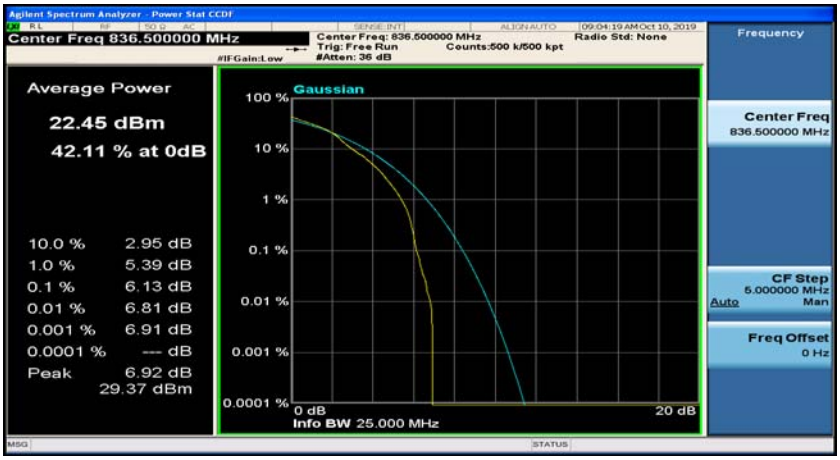
(Channel Bandwidth: 3 MHz)_LCH_16QAM_8RB#4

(Channel Bandwidth: 3 MHz)_LCH_16QAM_8RB#7

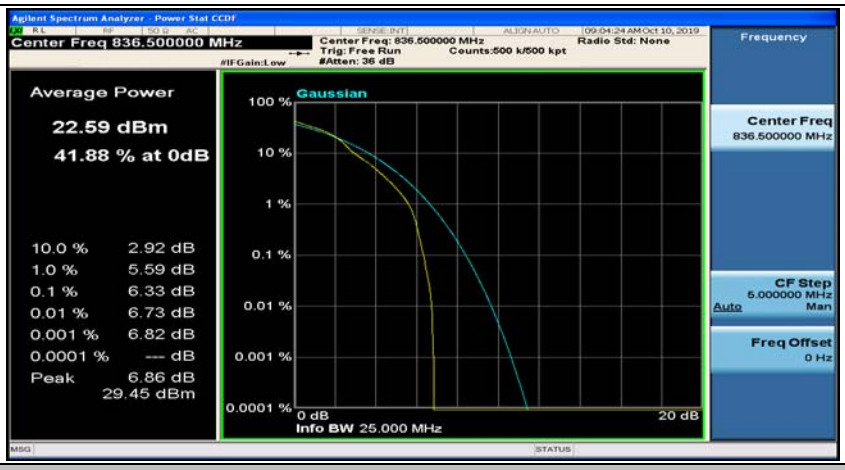
(Channel Bandwidth: 3 MHz)_LCH_16QAM_15RB#0

(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#0

(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#7



(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#14



(Channel Bandwidth: 3 MHz)_MCH_16QAM_8RB#0

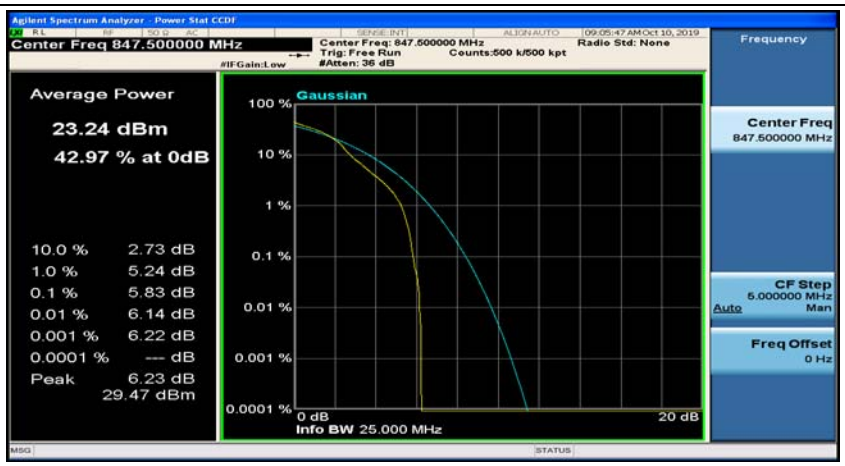
(Channel Bandwidth: 3 MHz)_MCH_16QAM_8RB#4

(Channel Bandwidth: 3 MHz)_MCH_16QAM_8RB#7

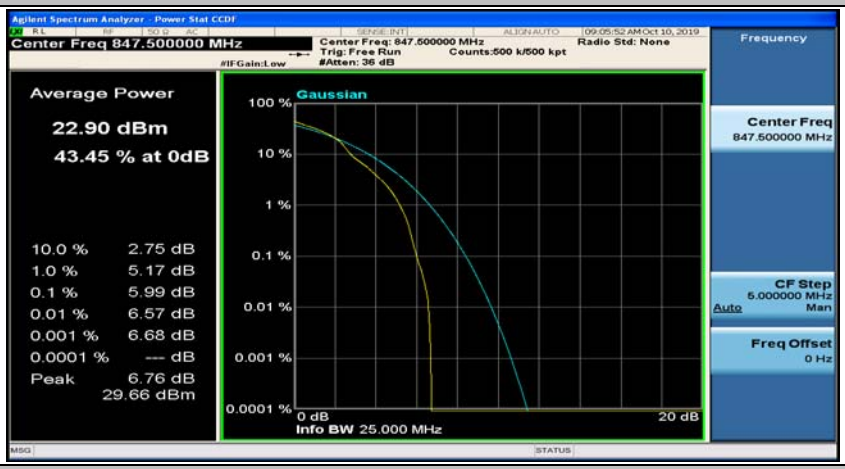
(Channel Bandwidth: 3 MHz)_MCH_16QAM_15RB#0

(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#0

(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#7



(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#14



(Channel Bandwidth: 3 MHz)_HCH_16QAM_8RB#0

(Channel Bandwidth: 3 MHz)_HCH_16QAM_8RB#4

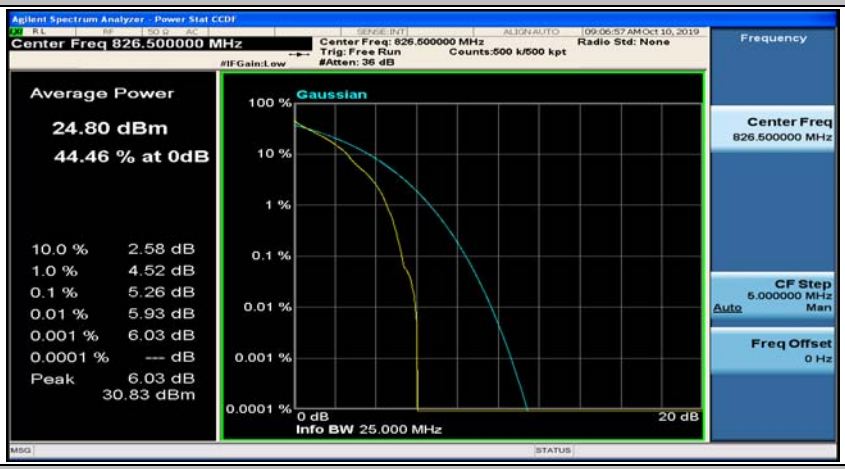
(Channel Bandwidth: 3 MHz)_HCH_16QAM_8RB#7

(Channel Bandwidth: 3 MHz)_HCH_16QAM_15RB#0

Channel Bandwidth: 5 MHz

(Channel Bandwidth: 5 MHz)_LCH_QPSK_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

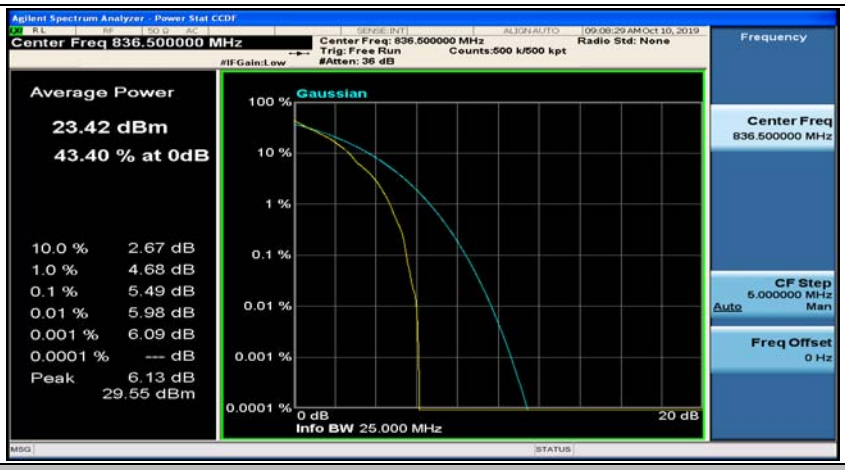
(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#13

(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

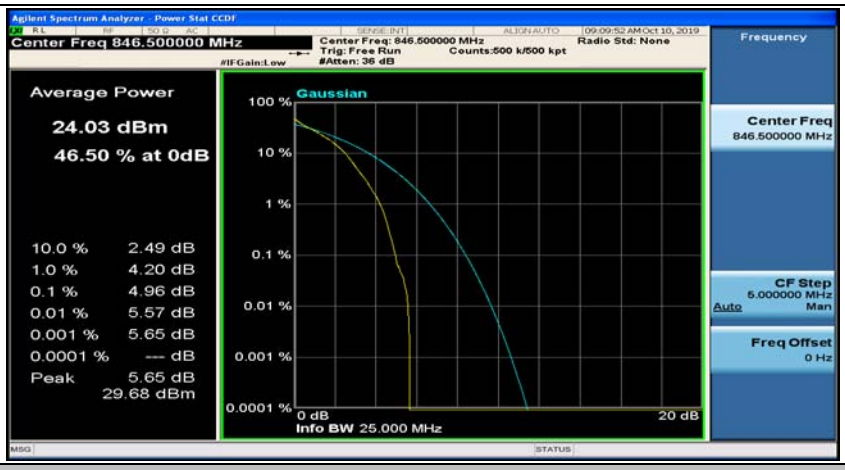
(Channel Bandwidth: 5 MHz)_MCH_QPSK_12RB#6

(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

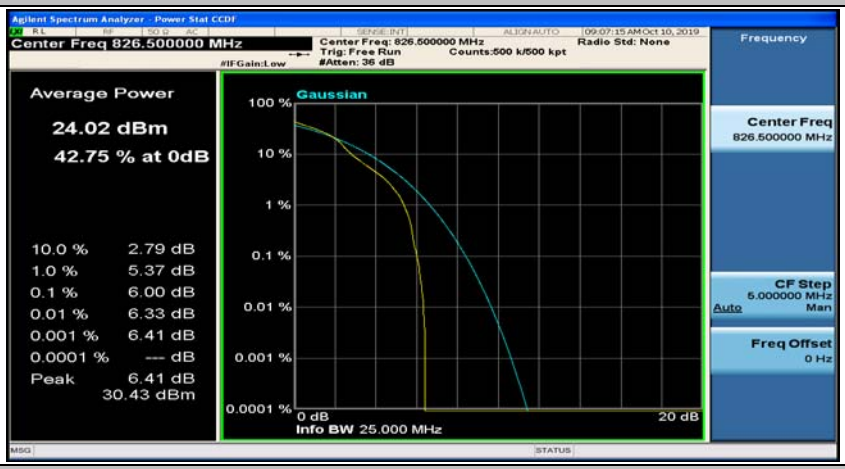
(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#6

(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#13

(Channel Bandwidth: 5 MHz)_HCH_QPSK_25RB#0

(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#0

(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#12



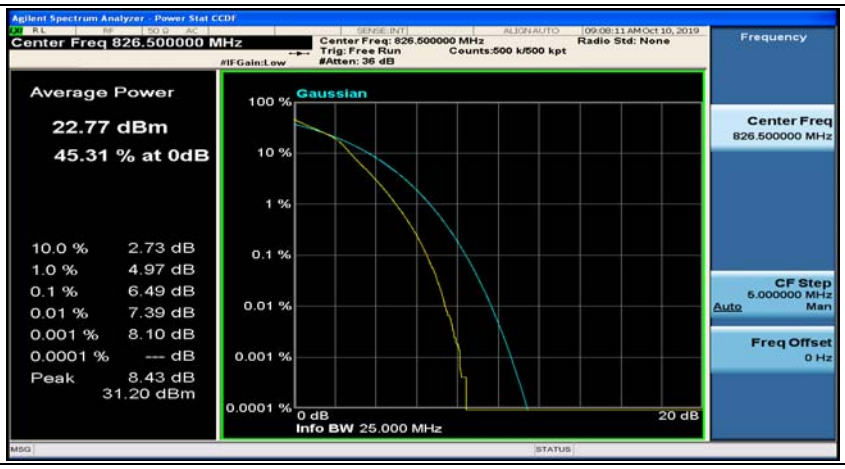
(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#24

(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

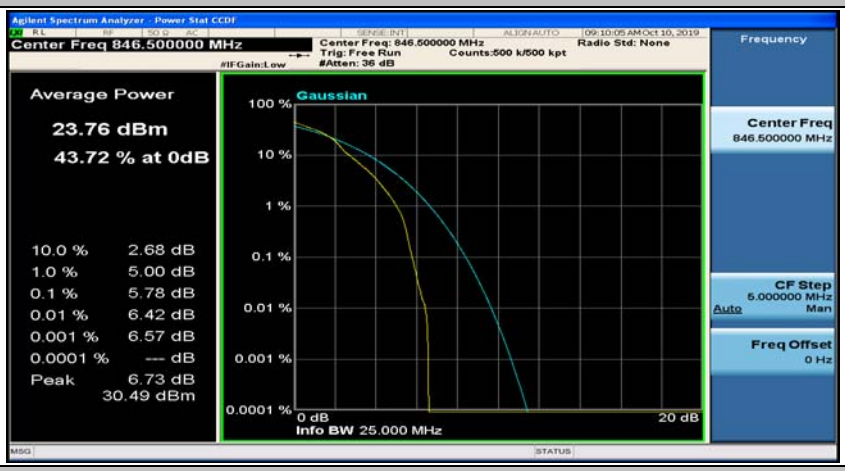
(Channel Bandwidth: 5 MHz)_MCH_16QAM_12RB#0

(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