Appendix for Band 5

Appendix A: Average Power Output Data

Test Result

Channel Bandwidth: 1.4 MHz

Channel Bandwidth: 1.4 MHz					
Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	23.33	PASS
		1	3	23.40	PASS
		1	5	23.30	PASS
		3	0	23.45	PASS
		3	2	23.42	PASS
		3	3	23.44	PASS
		6	0	22.50	PASS
	MCH	1	0	23.37	PASS
		1	3	23.36	PASS
		1	5	23.35	PASS
		3	0	23.44	PASS
		3	2	23.35	PASS
		3	3	23.40	PASS
		6	0	22.44	PASS
	HCH	1	0	23.34	PASS
		1	3	23.33	PASS
		1	5	23.33	PASS
		3	0	23.38	PASS
		3	2	23.36	PASS
		3	3	23.38	PASS
		6	0	22.42	PASS
16QAM	LCH	1	0	22.66	PASS
		1	3	22.83	PASS
		1	5	22.67	PASS
		3	0	22.61	PASS
		3	2	22.57	PASS
		3	3	22.60	PASS
		6	0	21.50	PASS
	MCH	1	0	22.68	PASS
		1	3	22.72	PASS
		1	5	22.66	PASS
		3	0	22.35	PASS

		3	2	22.31	PASS
		3	3	22.32	PASS
		6	0	21.38	PASS
	HCH	1	0	22.53	PASS
		1	3	22.57	PASS
		1	5	22.53	PASS
		3	0	22.46	PASS
		3	2	22.40	PASS
		3	3	22.42	PASS
		6	0	21.36	PASS

Channel Bandwidth: 3 MHz

Channel Bandwidth: 3 MHz					
Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	23.39	PASS
		1	7	23.42	PASS
		1	14	23.35	PASS
		8	0	22.48	PASS
		8	4	22.46	PASS
		8	7	22.49	PASS
		15	0	22.48	PASS
	MCH	1	0	23.29	PASS
		1	7	23.33	PASS
		1	14	23.28	PASS
		8	0	22.44	PASS
		8	4	22.43	PASS
		8	7	22.40	PASS
		15	0	22.39	PASS
	HCH	1	0	23.29	PASS
		1	7	23.33	PASS
		1	14	23.29	PASS
		8	0	22.40	PASS
		8	4	22.40	PASS
		8	7	22.40	PASS
		15	0	22.37	PASS
16QAM	LCH	1	0	22.75	PASS
		1	7	22.77	PASS
		1	14	22.70	PASS
		8	0	21.57	PASS
		8	4	21.57	PASS
		8	7	21.55	PASS
		15	0	21.49	PASS

	MCH	1	0	22.54	PASS
		1	7	22.59	PASS
		1	14	22.54	PASS
		8	0	21.46	PASS
		8	4	21.47	PASS
		8	7	21.43	PASS
		15	0	21.34	PASS
	HCH	1	0	22.55	PASS
		1	7	22.58	PASS
		1	14	22.53	PASS
		8	0	21.44	PASS
		8	4	21.44	PASS
		8	7	21.42	PASS
		15	0	21.33	PASS

Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz					
Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	23.49	PASS
		1	12	23.47	PASS
		1	24	23.40	PASS
		12	0	22.58	PASS
		12	6	22.56	PASS
		12	13	22.53	PASS
		25	0	22.52	PASS
	MCH	1	0	23.45	PASS
		1	12	23.40	PASS
		1	24	23.33	PASS
		12	0	22.50	PASS
		12	6	22.47	PASS
		12	13	22.46	PASS
		25	0	22.39	PASS
	HCH	1	0	23.40	PASS
		1	12	23.39	PASS
		1	24	23.34	PASS
		12	0	22.46	PASS
		12	6	22.46	PASS
		12	13	22.46	PASS
		25	0	22.39	PASS
16QAM	LCH	1	0	22.85	PASS
		1	12	22.87	PASS
		1	24	22.79	PASS

		12	0	21.74	PASS
		12	6	21.71	PASS
		12	13	21.68	PASS
		25	0	21.55	PASS
	MCH	1	0	22.77	PASS
		1	12	22.74	PASS
		1	24	22.68	PASS
		12	0	21.58	PASS
		12	6	21.57	PASS
		12	13	21.54	PASS
		25	0	21.39	PASS
	HCH	1	0	22.75	PASS
		1	12	22.72	PASS
		1	24	22.67	PASS
		12	0	21.57	PASS
		12	6	21.58	PASS
		12	13	21.57	PASS
		25	0	21.41	PASS

Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz					
Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	23.17	PASS
		1	24	23.21	PASS
		1	49	23.31	PASS
		25	0	22.23	PASS
		25	12	22.26	PASS
		25	25	22.30	PASS
		50	0	22.29	PASS
	MCH	1	0	23.27	PASS
		1	24	23.40	PASS
		1	49	23.51	PASS
		25	0	22.36	PASS
		25	12	22.44	PASS
		25	25	22.54	PASS
		50	0	22.45	PASS
	HCH	1	0	23.51	PASS
		1	24	23.57	PASS
		1	49	23.63	PASS
		25	0	22.61	PASS
		25	12	22.62	PASS

		25	25	22.66	PASS
		50	0	22.63	PASS
16QAM	LCH	1	0	22.57	PASS
		1	24	22.57	PASS
		1	49	22.54	PASS
		25	0	21.25	PASS
		25	12	21.27	PASS
		25	25	21.29	PASS
		50	0	21.29	PASS
	MCH	1	0	22.53	PASS
		1	24	22.65	PASS
		1	49	22.86	PASS
		25	0	21.35	PASS
		25	12	21.42	PASS
		25	25	21.52	PASS
		50	0	21.42	PASS
	HCH	1	0	22.84	PASS
		1	24	22.83	PASS
		1	49	22.86	PASS
		25	0	21.63	PASS
		25	12	21.65	PASS
		25	25	21.64	PASS
		50	0	21.61	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	1.28	<13	PASS
		1	3	2.28	<13	PASS
		1	5	1.27	<13	PASS
		3	0	2.6	<13	PASS
		3	2	2.47	<13	PASS
		3	3	2.56	<13	PASS
		6	0	3.26	<13	PASS
	MCH	1	0	1.14	<13	PASS
		1	3	2.19	<13	PASS
		1	5	1.14	<13	PASS
		3	0	2.44	<13	PASS
		3	2	2.35	<13	PASS
		3	3	2.42	<13	PASS
		6	0	3.15	<13	PASS
	HCH	1	0	1.16	<13	PASS
		1	3	2.18	<13	PASS
		1	5	1.17	<13	PASS
		3	0	2.42	<13	PASS
		3	2	2.37	<13	PASS
		3	3	2.4	<13	PASS
		6	0	3.16	<13	PASS
16QAM	LCH	1	0	1.86	<13	PASS
		1	3	2.87	<13	PASS
		1	5	1.83	<13	PASS
		3	0	3.29	<13	PASS
		3	2	3.06	<13	PASS
		3	3	3.24	<13	PASS
		6	0	3.94	<13	PASS
	MCH	1	0	1.74	<13	PASS
		1	3	2.78	<13	PASS
		1	5	1.74	<13	PASS
		3	0	3.13	<13	PASS

		3	2	2.95	<13	PASS
		3	3	3.1	<13	PASS
		6	0	3.88	<13	PASS
	HCH	1	0	1.76	<13	PASS
		1	3	2.78	<13	PASS
		1	5	1.73	<13	PASS
		3	0	3.09	<13	PASS
		3	2	2.93	<13	PASS
		3	3	3.07	<13	PASS
		6	0	3.86	<13	PASS

Channel Bandwidth: 3 MHz

Channel Bandwidth: 3 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio	Limit	Verdict
		Size	Offset	[dB]	[dB]	
QPSK	LCH	1	0	1.26	<13	PASS
		1	7	2.16	<13	PASS
		1	14	1.23	<13	PASS
		8	0	2.78	<13	PASS
		8	4	2.83	<13	PASS
		8	7	2.78	<13	PASS
		15	0	3.6	<13	PASS
	MCH	1	0	1.11	<13	PASS
		1	7	2.05	<13	PASS
		1	14	1.1	<13	PASS
		8	0	2.61	<13	PASS
		8	4	2.74	<13	PASS
		8	7	2.68	<13	PASS
		15	0	3.58	<13	PASS
	HCH	1	0	1.1	<13	PASS
		1	7	2.06	<13	PASS
		1	14	1.06	<13	PASS
		8	0	2.61	<13	PASS
		8	4	2.74	<13	PASS
		8	7	2.66	<13	PASS
		15	0	3.56	<13	PASS
16QAM	LCH	1	0	1.81	<13	PASS
		1	7	2.68	<13	PASS
		1	14	1.73	<13	PASS
		8	0	3.42	<13	PASS
		8	4	3.46	<13	PASS

		8	7	3.44	<13	PASS
		15	0	4.22	<13	PASS
	MCH	1	0	1.66	<13	PASS
		1	7	2.65	<13	PASS
		1	14	1.65	<13	PASS
		8	0	3.28	<13	PASS
		8	4	3.39	<13	PASS
		8	7	3.29	<13	PASS
		15	0	4.18	<13	PASS
	HCH	1	0	1.66	<13	PASS
		1	7	2.63	<13	PASS
		1	14	1.62	<13	PASS
		8	0	3.29	<13	PASS
		8	4	3.37	<13	PASS
		8	7	3.3	<13	PASS
		15	0	4.15	<13	PASS

Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	LCH	1	0	1.29	<13	PASS
		1	12	2.11	<13	PASS
		1	24	1.17	<13	PASS
		12	0	2.63	<13	PASS
		12	6	2.67	<13	PASS
		12	13	2.69	<13	PASS
		25	0	3.54	<13	PASS
	MCH	1	0	1.13	<13	PASS
		1	12	2.02	<13	PASS
		1	24	1.08	<13	PASS
		12	0	2.45	<13	PASS
		12	6	2.59	<13	PASS
		12	13	2.59	<13	PASS
		25	0	3.47	<13	PASS
	HCH	1	0	1.15	<13	PASS
		1	12	2.02	<13	PASS
		1	24	1.02	<13	PASS
		12	0	2.46	<13	PASS
		12	6	2.6	<13	PASS
		12	13	2.6	<13	PASS

		25	0	3.47	<13	PASS
16QAM	LCH	1	0	1.94	<13	PASS
		1	12	2.68	<13	PASS
		1	24	1.77	<13	PASS
		12	0	3.28	<13	PASS
		12	6	3.31	<13	PASS
		12	13	3.32	<13	PASS
		25	0	4.12	<13	PASS
	MCH	1	0	1.78	<13	PASS
		1	12	2.65	<13	PASS
		1	24	1.63	<13	PASS
		12	0	3.11	<13	PASS
		12	6	3.23	<13	PASS
		12	13	3.23	<13	PASS
		25	0	4.06	<13	PASS
	HCH	1	0	1.78	<13	PASS
		1	12	2.62	<13	PASS
		1	24	1.63	<13	PASS
		12	0	3.13	<13	PASS
		12	6	3.24	<13	PASS
		12	13	3.23	<13	PASS
		25	0	4.05	<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	1.73	<13	PASS
		1	24	2.08	<13	PASS
		1	49	1.28	<13	PASS
		25	0	2.89	<13	PASS
		25	12	2.95	<13	PASS
		25	25	2.92	<13	PASS
		50	0	4.14	<13	PASS
	MCH	1	0	1.56	<13	PASS
		1	24	2.00	<13	PASS
		1	49	1.36	<13	PASS
		25	0	2.66	<13	PASS
		25	12	2.88	<13	PASS
		25	25	2.83	<13	PASS
		50	0	4.07	<13	PASS

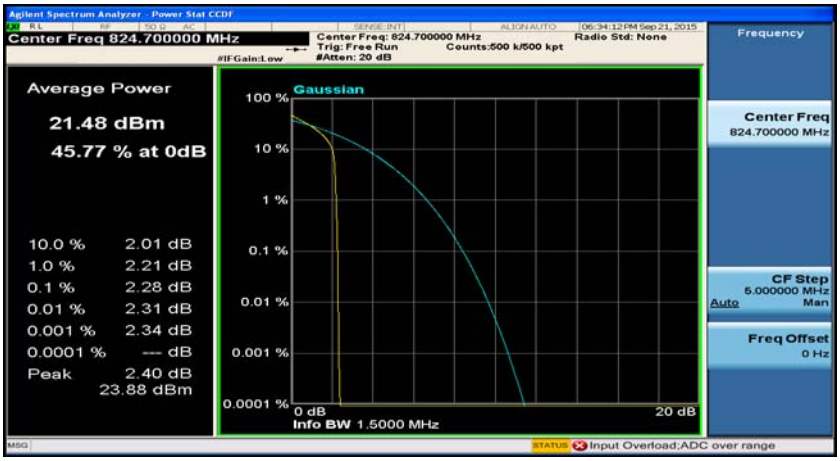
	HCH	1	0	1.58	<13	PASS
		1	24	2.03	<13	PASS
		1	49	1.23	<13	PASS
		25	0	2.75	<13	PASS
		25	12	2.92	<13	PASS
		25	25	2.89	<13	PASS
		50	0	4.09	<13	PASS
16QAM	LCH	1	0	2.36	<13	PASS
		1	24	2.62	<13	PASS
		1	49	1.89	<13	PASS
		25	0	3.46	<13	PASS
		25	12	3.59	<13	PASS
		25	25	3.51	<13	PASS
		50	0	4.57	<13	PASS
	MCH	1	0	2.20	<13	PASS
		1	24	2.56	<13	PASS
		1	49	1.97	<13	PASS
		25	0	3.24	<13	PASS
		25	12	3.50	<13	PASS
		25	25	3.39	<13	PASS
		50	0	4.52	<13	PASS
	HCH	1	0	2.26	<13	PASS
		1	24	2.57	<13	PASS
		1	49	1.71	<13	PASS
		25	0	3.36	<13	PASS
		25	12	3.47	<13	PASS
		25	25	3.35	<13	PASS
		50	0	4.48	<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

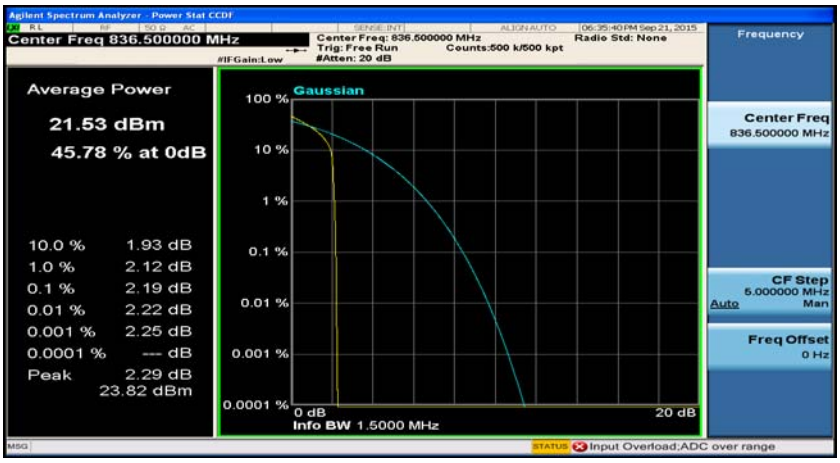
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_3RB#2

(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

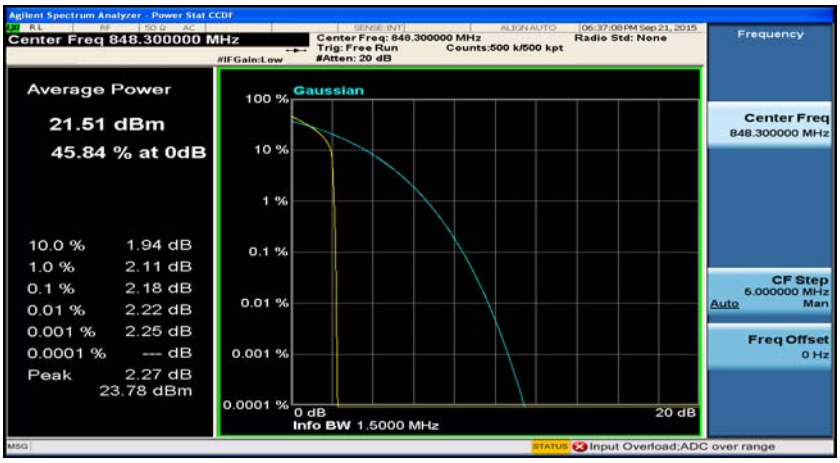
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_3RB#2

(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

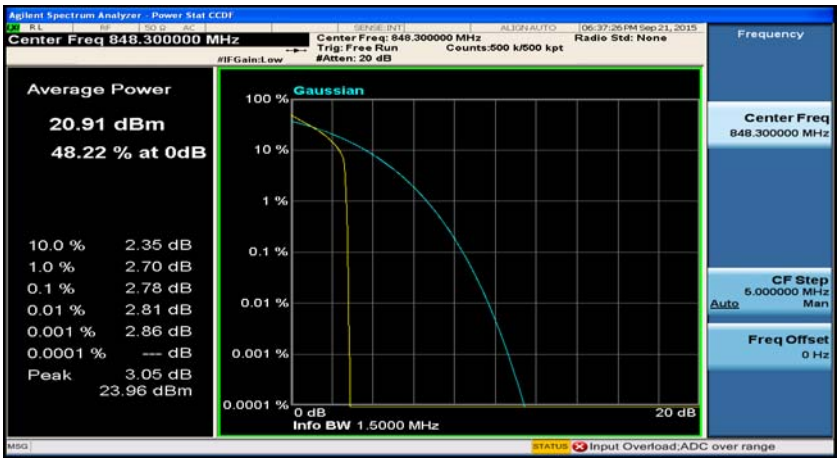
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_3RB#2

(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

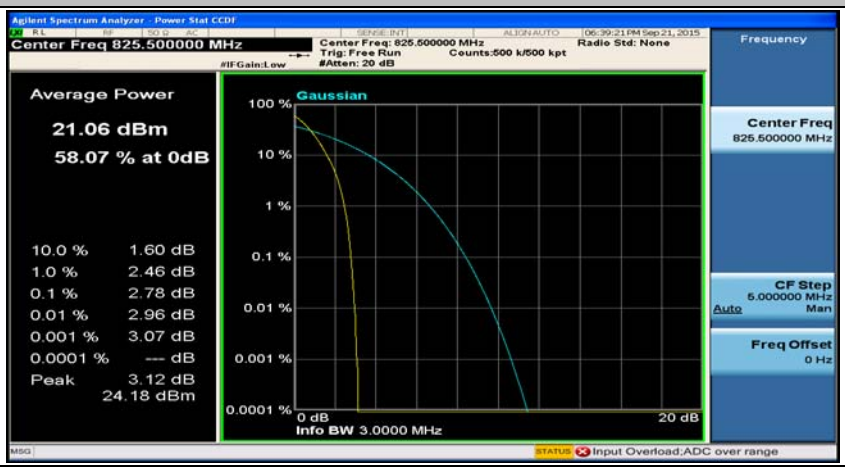
(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#7

(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#14

(Channel Bandwidth: 3 MHz)_LCH_QPSK_8RB#0

(Channel Bandwidth: 3 MHz)_LCH_QPSK_8RB#4

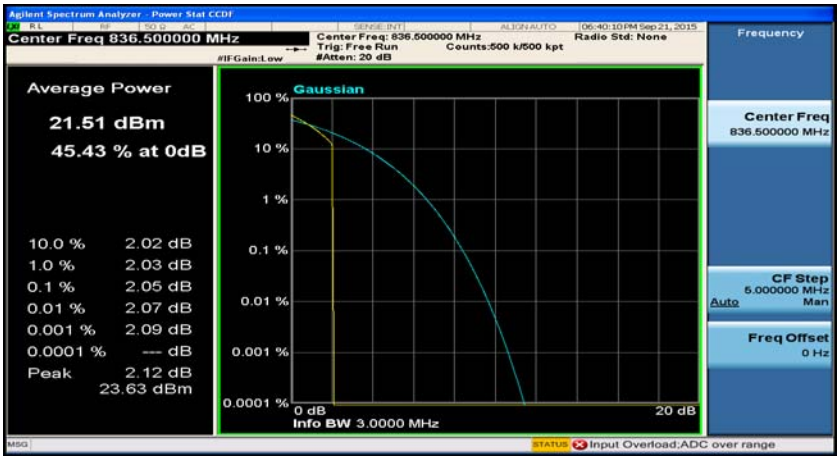
(Channel Bandwidth: 3 MHz)_LCH_QPSK_8RB#7



(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

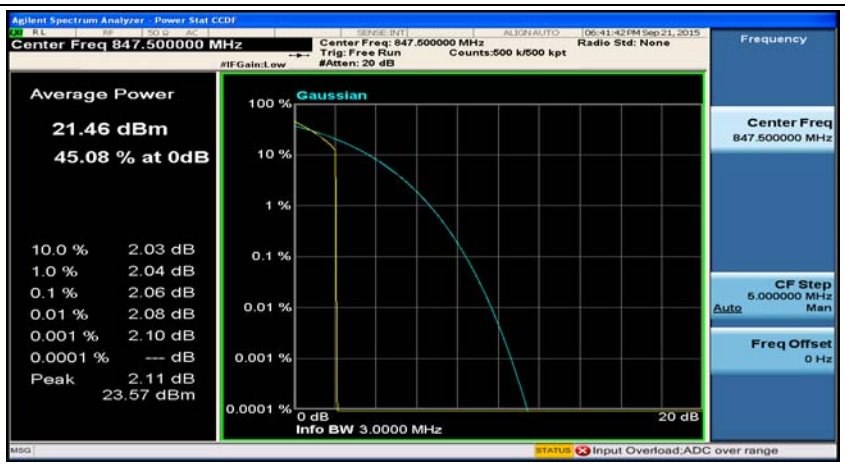
(Channel Bandwidth: 3 MHz)_MCH_QPSK_8RB#4

(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

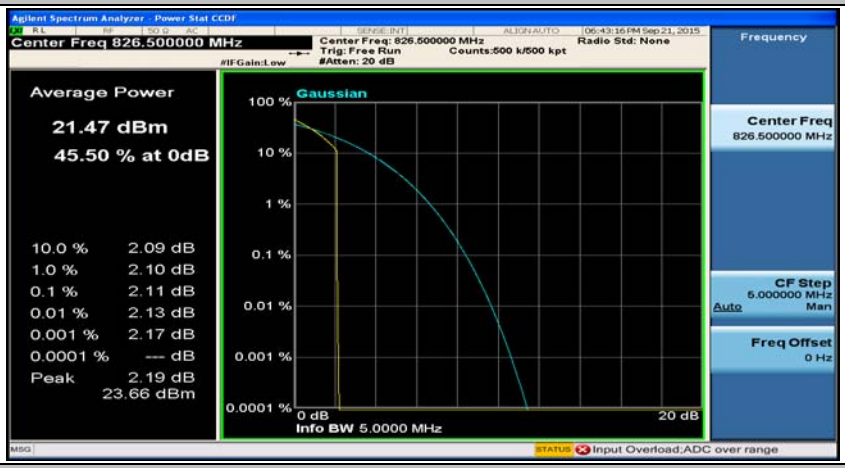
(Channel Bandwidth: 3 MHz)_HCH_16QAM_8RB#7

(Channel Bandwidth: 3 MHz)_HCH_16QAM_15RB#0

Channel Bandwidth: 5 MHz

(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#0

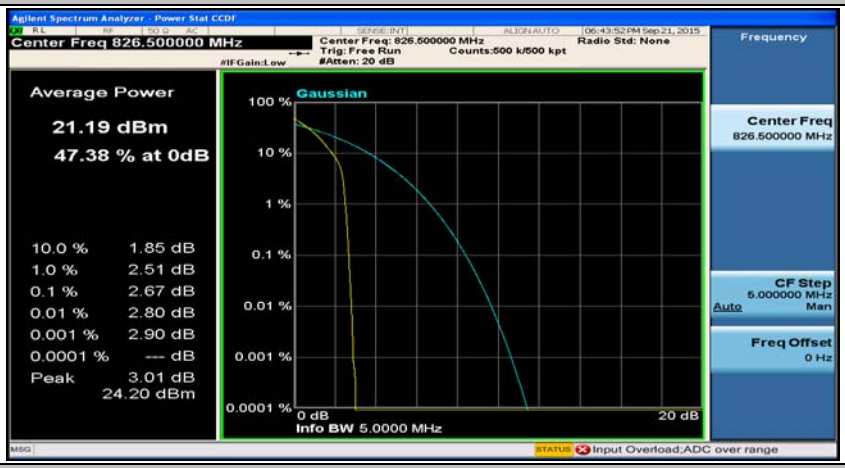
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#12



(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

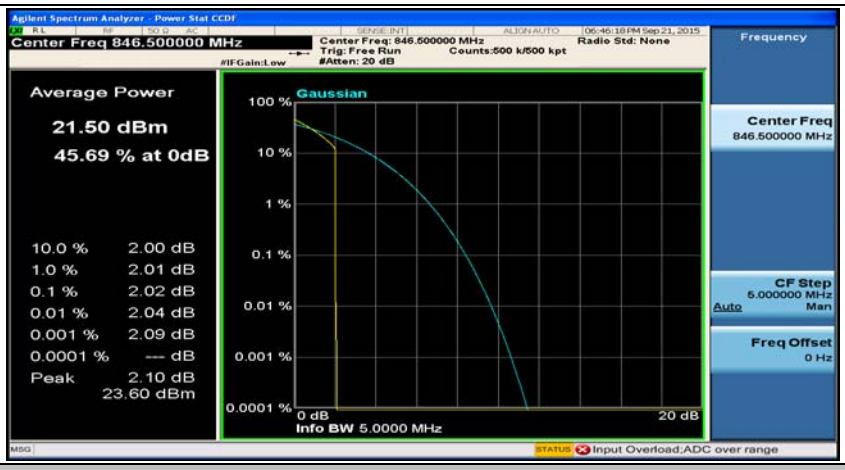
(Channel Bandwidth: 5 MHz)_MCH_QPSK_12RB#6

(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