Appendix for Band 12

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	22.69	PASS
		1	3	22.72	PASS
		1	5	22.65	PASS
		3	0	21.65	PASS
		3	2	21.72	PASS
		3	3	21.69	PASS
		6	0	21.58	PASS
	MCH	1	0	22.56	PASS
		1	3	22.60	PASS
		1	5	22.49	PASS
		3	0	21.58	PASS
		3	2	21.61	PASS
		3	3	21.60	PASS
		6	0	21.48	PASS
	HCH	1	0	22.50	PASS
		1	3	22.55	PASS
		1	5	22.52	PASS
		3	0	21.59	PASS
		3	2	21.58	PASS
		3	3	21.58	PASS
		6	0	21.49	PASS
16QAM	LCH	1	0	21.89	PASS
		1	3	21.91	PASS
		1	5	21.95	PASS
		3	0	21.72	PASS
		3	2	21.77	PASS
		3	3	21.79	PASS
		6	0	20.71	PASS
	MCH	1	0	21.73	PASS
		1	3	21.96	PASS
		1	5	21.76	PASS
		3	0	21.74	PASS

		3	2	21.74	PASS
		3	3	21.72	PASS
		6	0	20.72	PASS
	HCH	1	0	21.83	PASS
		1	3	21.88	PASS
		1	5	21.93	PASS
		3	0	21.57	PASS
		3	2	21.64	PASS
		3	3	21.63	PASS
		6	0	20.48	PASS

Channel Bandwidth: 3 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	22.49	PASS
		1	7	22.82	PASS
		1	14	22.57	PASS
		8	0	21.55	PASS
		8	4	21.61	PASS
		8	7	21.54	PASS
		15	0	21.56	PASS
	MCH	1	0	22.57	PASS
		1	7	22.74	PASS
		1	14	22.56	PASS
		8	0	21.52	PASS
		8	4	21.56	PASS
		8	7	21.52	PASS
		15	0	21.63	PASS
	HCH	1	0	22.72	PASS
		1	7	22.80	PASS
		1	14	22.55	PASS
		8	0	21.53	PASS
		8	4	21.49	PASS
		8	7	21.47	PASS
		15	0	21.43	PASS
16QAM	LCH	1	0	21.84	PASS
		1	7	21.84	PASS
		1	14	21.90	PASS
		8	0	20.68	PASS
		8	4	20.72	PASS
		8	7	20.61	PASS
		15	0	20.56	PASS

	MCH	1	0	21.73	PASS
		1	7	21.77	PASS
		1	14	21.96	PASS
		8	0	20.54	PASS
		8	4	20.54	PASS
		8	7	20.63	PASS
		15	0	20.53	PASS
	HCH	1	0	21.89	PASS
		1	7	21.86	PASS
		1	14	21.84	PASS
		8	0	20.44	PASS
		8	4	20.51	PASS
		8	7	20.46	PASS
		15	0	20.50	PASS

Channel Bandwidth: 5 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	22.54	PASS
		1	12	22.83	PASS
		1	24	22.57	PASS
		12	0	21.70	PASS
		12	6	21.65	PASS
		12	13	21.58	PASS
		25	0	21.67	PASS
	MCH	1	0	22.48	PASS
		1	12	22.89	PASS
		1	24	22.49	PASS
		12	0	21.46	PASS
		12	6	21.57	PASS
		12	13	21.64	PASS
		25	0	21.59	PASS
	HCH	1	0	22.53	PASS
		1	12	22.86	PASS
		1	24	22.54	PASS
		12	0	21.57	PASS
		12	6	21.64	PASS
		12	13	21.44	PASS
		25	0	21.51	PASS
16QAM	LCH	1	0	21.86	PASS
		1	12	21.71	PASS
		1	24	21.86	PASS

		12	0	20.79	PASS
		12	6	20.70	PASS
		12	13	20.70	PASS
		25	0	20.71	PASS
	MCH	1	0	21.80	PASS
		1	12	21.79	PASS
		1	24	21.77	PASS
		12	0	20.59	PASS
		12	6	20.68	PASS
		12	13	20.72	PASS
		25	0	20.63	PASS
	HCH	1	0	21.74	PASS
		1	12	21.61	PASS
		1	24	21.76	PASS
		12	0	20.69	PASS
		12	6	20.89	PASS
		12	13	20.41	PASS
		25	0	20.60	PASS

Channel Bandwidth: 10 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	22.53	PASS
		1	24	22.87	PASS
		1	49	22.47	PASS
		25	0	21.75	PASS
		25	12	21.58	PASS
		25	25	21.79	PASS
		50	0	21.75	PASS
	MCH	1	0	22.59	PASS
		1	24	22.91	PASS
		1	49	22.49	PASS
		25	0	21.85	PASS
		25	12	21.85	PASS
		25	25	21.78	PASS
		50	0	21.60	PASS
	HCH	1	0	22.57	PASS
		1	24	22.89	PASS
		1	49	22.53	PASS
		25	0	21.42	PASS
		25	12	21.54	PASS
		25	25	21.52	PASS

		50	0	21.49	PASS
16QAM	LCH	1	0	21.90	PASS
		1	24	21.86	PASS
		1	49	21.80	PASS
		25	0	20.82	PASS
		25	12	20.63	PASS
		25	25	20.82	PASS
		50	0	20.78	PASS
	MCH	1	0	21.95	PASS
		1	24	21.85	PASS
		1	49	21.96	PASS
		25	0	20.62	PASS
		25	12	20.64	PASS
		25	25	20.76	PASS
		50	0	20.64	PASS
	HCH	1	0	21.86	PASS
		1	24	22.00	PASS
		1	49	21.81	PASS
		25	0	20.52	PASS
		25	12	20.81	PASS
		25	25	20.75	PASS
		50	0	20.61	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	5.65	<13	PASS
		1	3	5.68	<13	PASS
		1	5	5.64	<13	PASS
		3	0	5.79	<13	PASS
		3	2	5.75	<13	PASS
		3	3	5.8	<13	PASS
		6	0	5.75	<13	PASS
	MCH	1	0	5.37	<13	PASS
		1	3	5.39	<13	PASS
		1	5	5.38	<13	PASS
		3	0	5.32	<13	PASS
		3	2	5.3	<13	PASS
		3	3	5.31	<13	PASS
		6	0	5.74	<13	PASS
	HCH	1	0	5.25	<13	PASS
		1	3	5.14	<13	PASS
		1	5	5.17	<13	PASS
		3	0	5.41	<13	PASS
		3	2	5.31	<13	PASS
		3	3	5.3	<13	PASS
		6	0	5.7	<13	PASS
16QAM	LCH	1	0	6.98	<13	PASS
		1	3	6.63	<13	PASS
		1	5	6.71	<13	PASS
		3	0	6.61	<13	PASS
		3	2	6.56	<13	PASS
		3	3	6.55	<13	PASS
		6	0	6.9	<13	PASS
	MCH	1	0	6.3	<13	PASS
		1	3	6.23	<13	PASS
		1	5	6.18	<13	PASS
		3	0	6.37	<13	PASS

		3	2	6.37	<13	PASS
		3	3	6.45	<13	PASS
		6	0	6.65	<13	PASS
	HCH	1	0	6.36	<13	PASS
		1	3	6.09	<13	PASS
		1	5	6.14	<13	PASS
		3	0	6.43	<13	PASS
		3	2	6.37	<13	PASS
		3	3	6.38	<13	PASS
		6	0	6.67	<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	5.62	<13	PASS
		1	7	5.56	<13	PASS
		1	14	5.59	<13	PASS
		8	0	5.95	<13	PASS
		8	4	5.91	<13	PASS
		8	7	5.83	<13	PASS
		15	0	5.77	<13	PASS
	MCH	1	0	5.15	<13	PASS
		1	7	5.05	<13	PASS
		1	14	5.18	<13	PASS
		8	0	5.77	<13	PASS
		8	4	5.75	<13	PASS
		8	7	5.74	<13	PASS
		15	0	5.82	<13	PASS
	HCH	1	0	5.57	<13	PASS
		1	7	5.42	<13	PASS
		1	14	5.23	<13	PASS
		8	0	5.92	<13	PASS
		8	4	5.84	<13	PASS
		8	7	5.74	<13	PASS
		15	0	5.7	<13	PASS
16QAM	LCH	1	0	6.54	<13	PASS
		1	7	6.66	<13	PASS
		1	14	6.27	<13	PASS
		8	0	6.67	<13	PASS
		8	4	6.56	<13	PASS

		8	7	6.49	<13	PASS
		15	0	6.84	<13	PASS
	MCH	1	0	6.27	<13	PASS
		1	7	6.02	<13	PASS
		1	14	6.01	<13	PASS
		8	0	6.42	<13	PASS
		8	4	6.39	<13	PASS
		8	7	6.43	<13	PASS
		15	0	6.55	<13	PASS
	HCH	1	0	6.58	<13	PASS
		1	7	6.52	<13	PASS
		1	14	6.35	<13	PASS
		8	0	6.92	<13	PASS
		8	4	6.9	<13	PASS
		8	7	6.89	<13	PASS
		15	0	6.54	<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	5.84	<13	PASS
		1	12	5.61	<13	PASS
		1	24	5.64	<13	PASS
		12	0	5.85	<13	PASS
		12	6	5.81	<13	PASS
		12	13	5.81	<13	PASS
		25	0	5.91	<13	PASS
	MCH	1	0	5.39	<13	PASS
		1	12	5.36	<13	PASS
		1	24	5.36	<13	PASS
		12	0	5.59	<13	PASS
		12	6	5.57	<13	PASS
		12	13	5.68	<13	PASS
		25	0	5.73	<13	PASS
	HCH	1	0	5.39	<13	PASS
		1	12	5.48	<13	PASS
		1	24	5.21	<13	PASS
		12	0	5.85	<13	PASS
		12	6	5.76	<13	PASS
		12	13	5.82	<13	PASS

		25	0	5.86	<13	PASS
16QAM	LCH	1	0	6.64	<13	PASS
		1	12	6.48	<13	PASS
		1	24	6.4	<13	PASS
		12	0	6.78	<13	PASS
		12	6	6.73	<13	PASS
		12	13	6.74	<13	PASS
		25	0	6.55	<13	PASS
	MCH	1	0	6.46	<13	PASS
		1	12	6.24	<13	PASS
		1	24	6.52	<13	PASS
		12	0	6.48	<13	PASS
		12	6	6.45	<13	PASS
		12	13	6.46	<13	PASS
		25	0	6.53	<13	PASS
	HCH	1	0	6.6	<13	PASS
		1	12	6.5	<13	PASS
		1	24	6.01	<13	PASS
		12	0	6.64	<13	PASS
		12	6	6.68	<13	PASS
		12	13	6.62	<13	PASS
		25	0	6.54	<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	5.61	<13	PASS
		1	24	5.32	<13	PASS
		1	49	5.33	<13	PASS
		25	0	5.86	<13	PASS
		25	12	5.78	<13	PASS
		25	25	5.71	<13	PASS
		50	0	5.84	<13	PASS
	MCH	1	0	5.24	<13	PASS
		1	24	5.04	<13	PASS
		1	49	5.21	<13	PASS
		25	0	5.76	<13	PASS
		25	12	5.77	<13	PASS
		25	25	5.81	<13	PASS
		50	0	5.82	<13	PASS

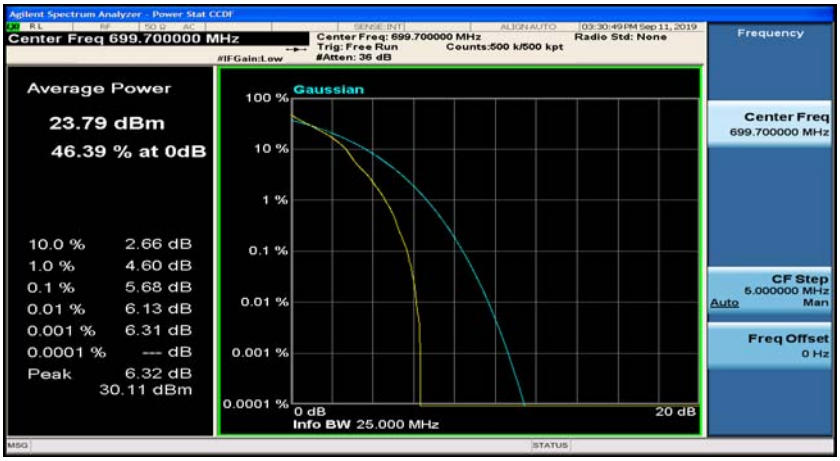
	HCH	1	0	5.11	<13	PASS
		1	24	5.43	<13	PASS
		1	49	5.37	<13	PASS
		25	0	5.7	<13	PASS
		25	12	5.71	<13	PASS
		25	25	5.77	<13	PASS
		50	0	5.68	<13	PASS
16QAM	LCH	1	0	6.64	<13	PASS
		1	24	6.61	<13	PASS
		1	49	6.38	<13	PASS
		25	0	6.64	<13	PASS
		25	12	6.65	<13	PASS
		25	25	6.55	<13	PASS
		50	0	6.51	<13	PASS
	MCH	1	0	6.24	<13	PASS
		1	24	5.95	<13	PASS
		1	49	6.37	<13	PASS
		25	0	6.6	<13	PASS
		25	12	6.56	<13	PASS
		25	25	6.59	<13	PASS
		50	0	6.58	<13	PASS
	HCH	1	0	6.19	<13	PASS
		1	24	6.34	<13	PASS
		1	49	6.22	<13	PASS
		25	0	6.61	<13	PASS
		25	12	6.59	<13	PASS
		25	25	6.68	<13	PASS
		50	0	6.51	<13	PASS

Test Graphs

Channel Bandwidth: 1.4 MHz

(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#0

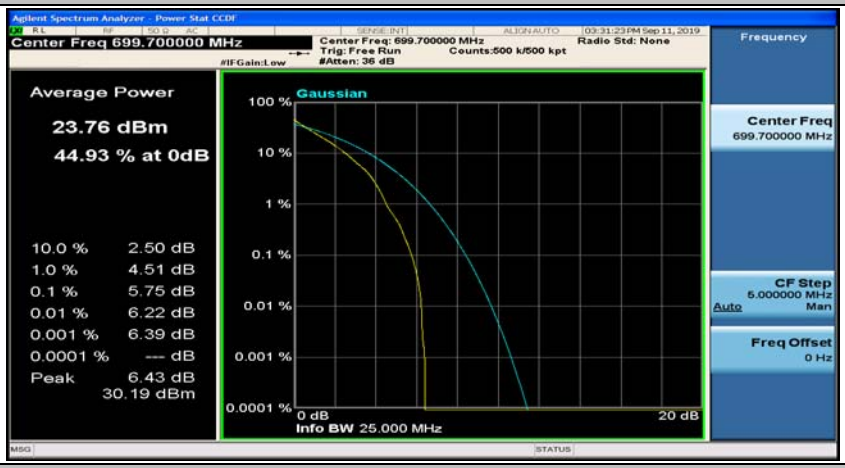
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#3



(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

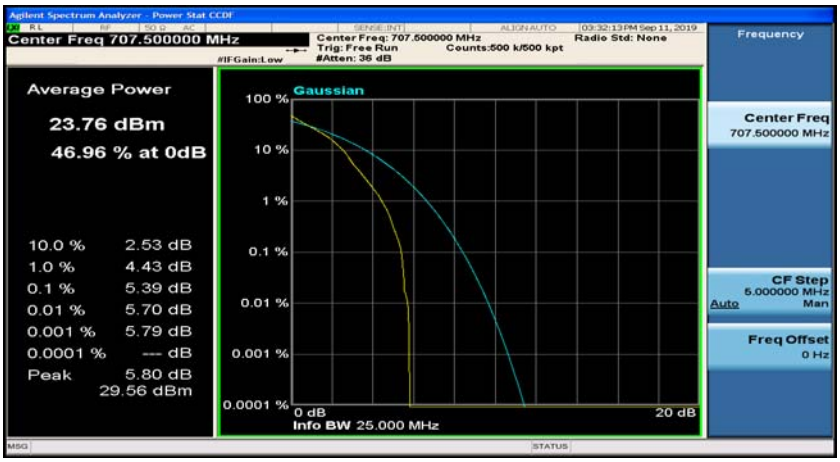


(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_3RB#3

(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

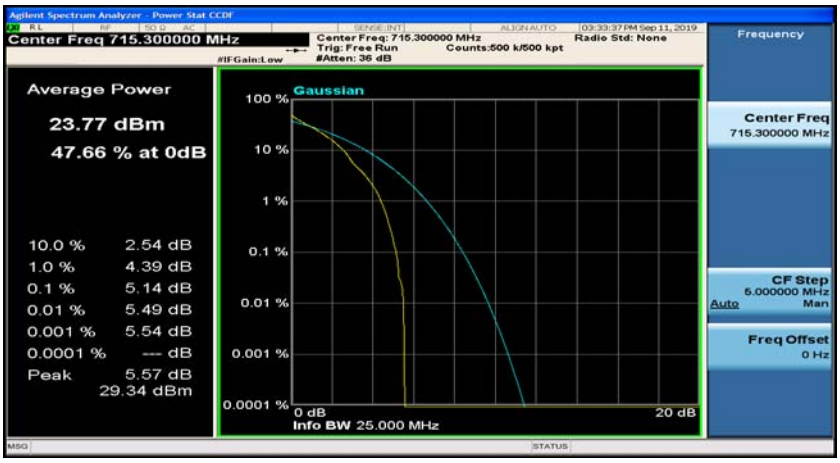
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_3RB#2

(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_3RB#3

(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_6RB#0

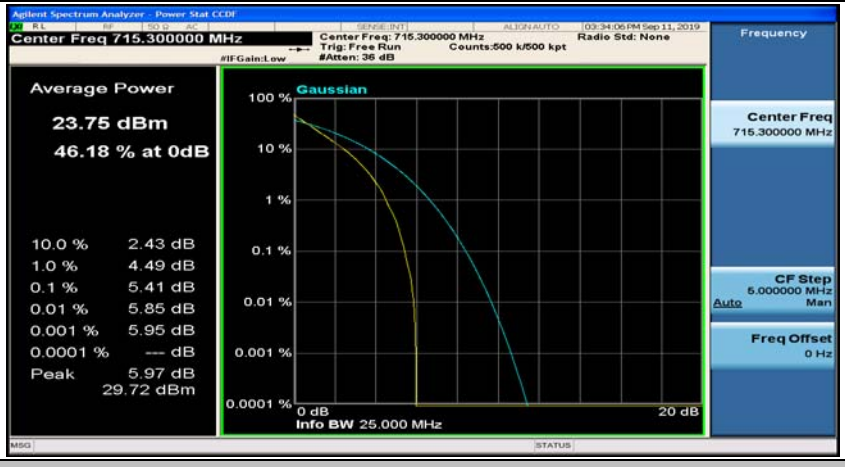
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#0

(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



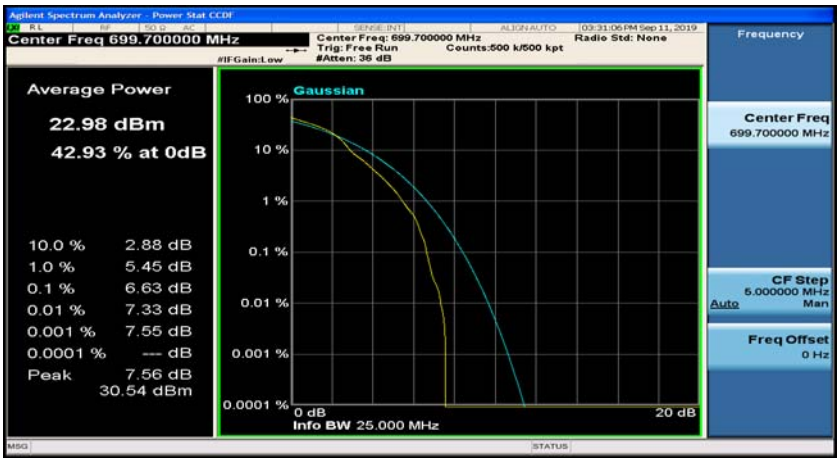
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_3RB#2

(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_3RB#3

(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_6RB#0

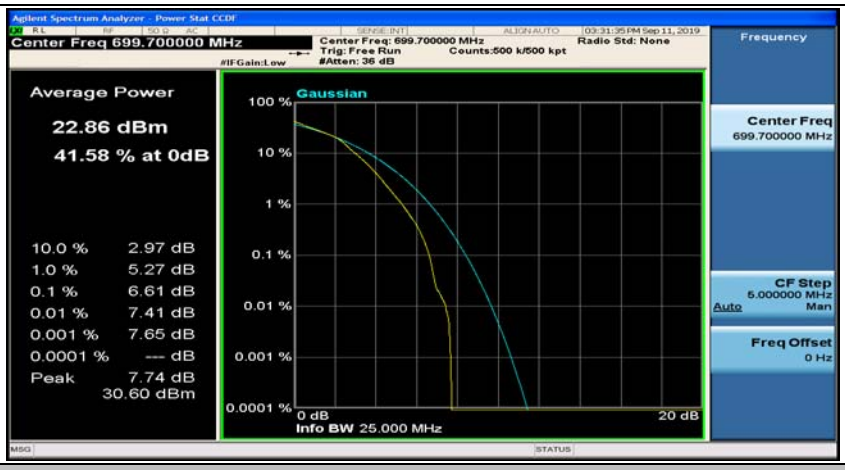
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#0

(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

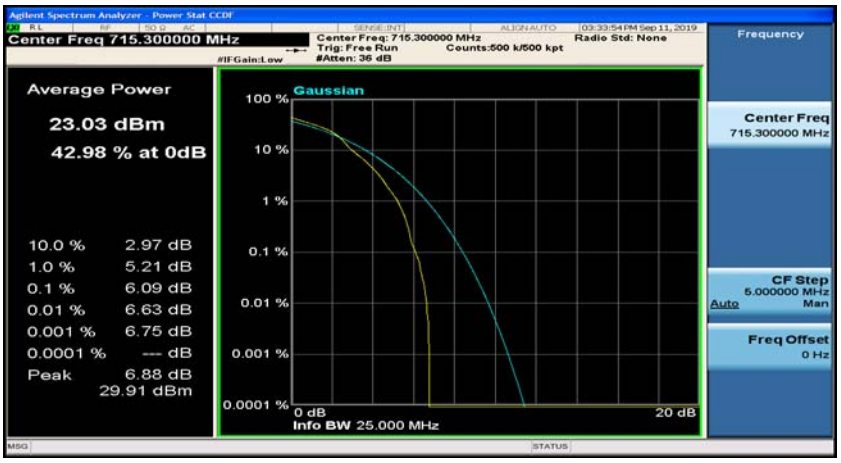
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_3RB#2

(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

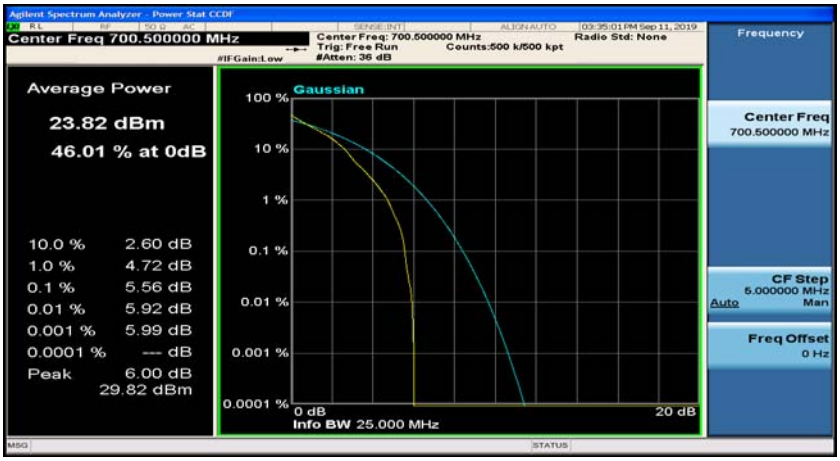
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_3RB#3

(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_6RB#0

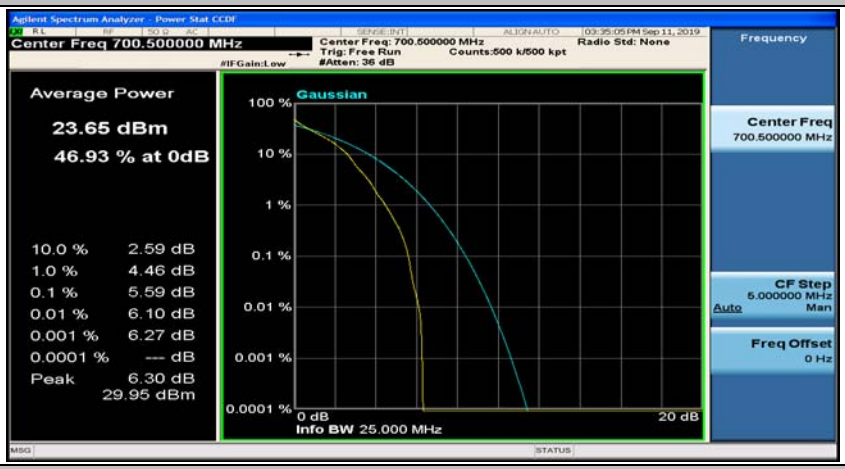
Channel Bandwidth: 3 MHz

(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#0

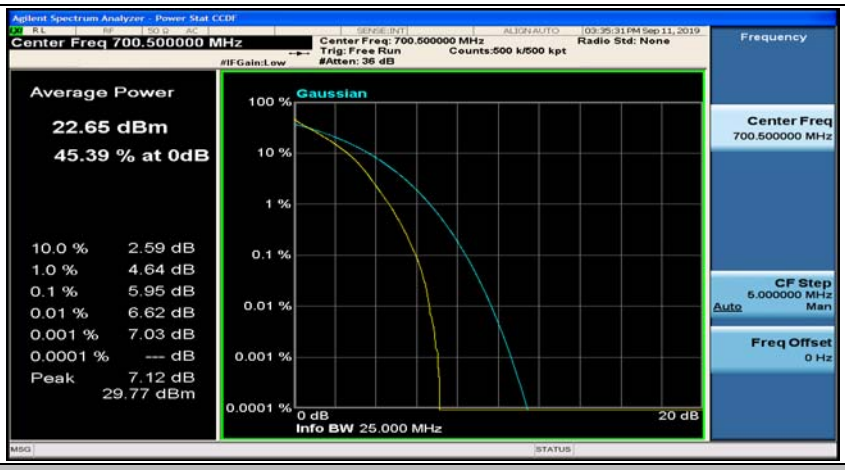
(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#7



(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#14



(Channel Bandwidth: 3 MHz)_LCH_QPSK_8RB#0



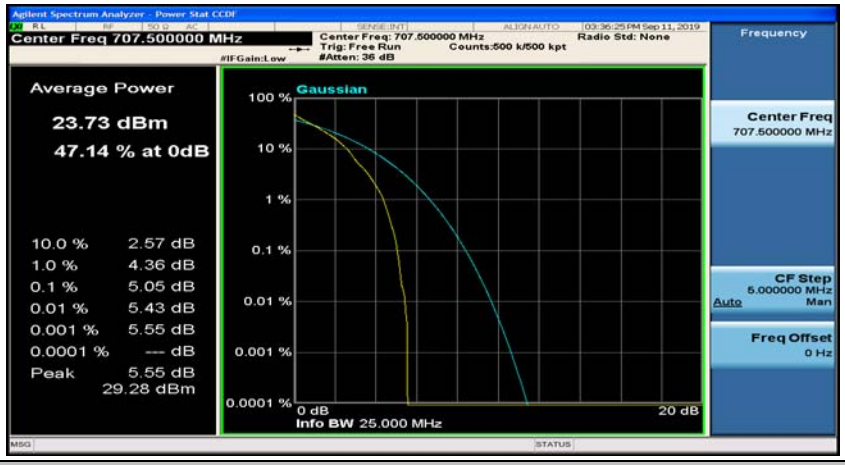
(Channel Bandwidth: 3 MHz)_LCH_QPSK_8RB#4

(Channel Bandwidth: 3 MHz)_LCH_QPSK_8RB#7

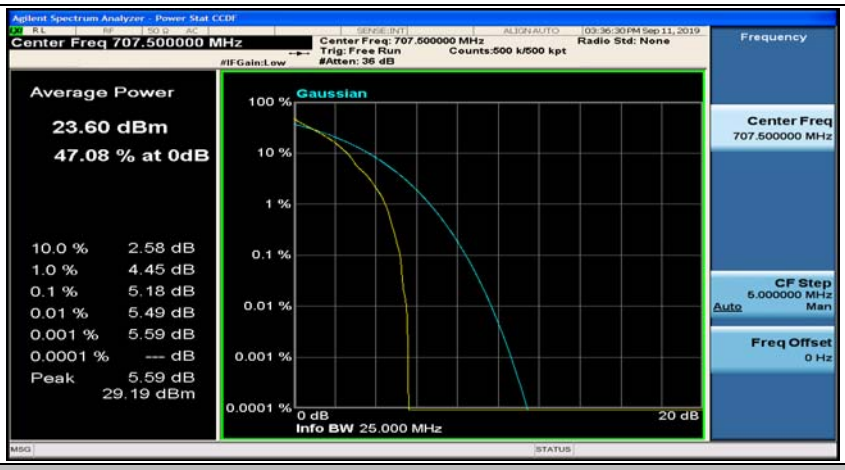
(Channel Bandwidth: 3 MHz)_LCH_QPSK_15RB#0

(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

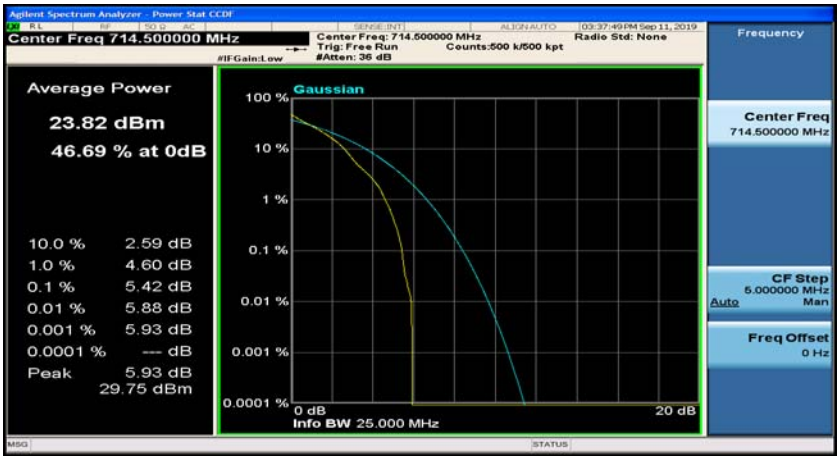
(Channel Bandwidth: 3 MHz)_MCH_QPSK_8RB#4

(Channel Bandwidth: 3 MHz)_MCH_QPSK_8RB#7

(Channel Bandwidth: 3 MHz)_MCH_QPSK_15RB#0

(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#0

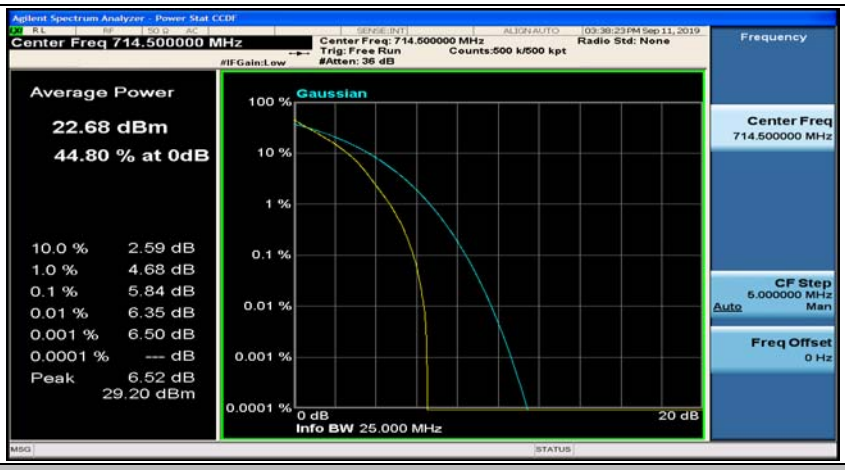
(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#7



(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#14

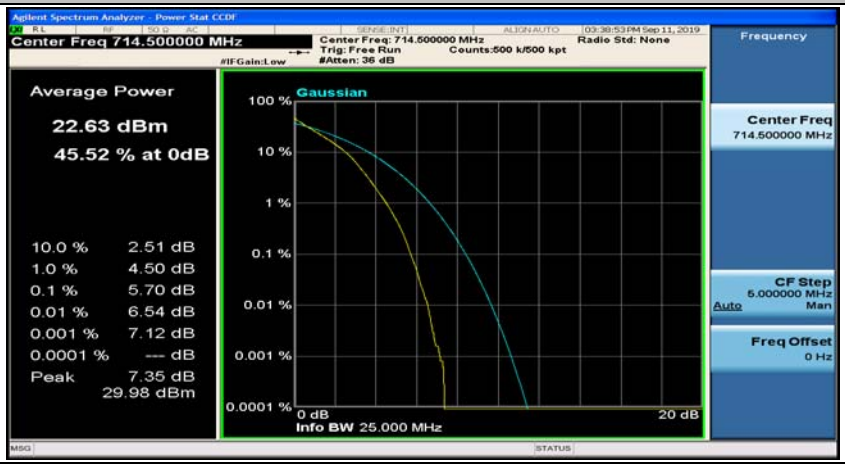
(Channel Bandwidth: 3 MHz)_HCH_QPSK_8RB#0

(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

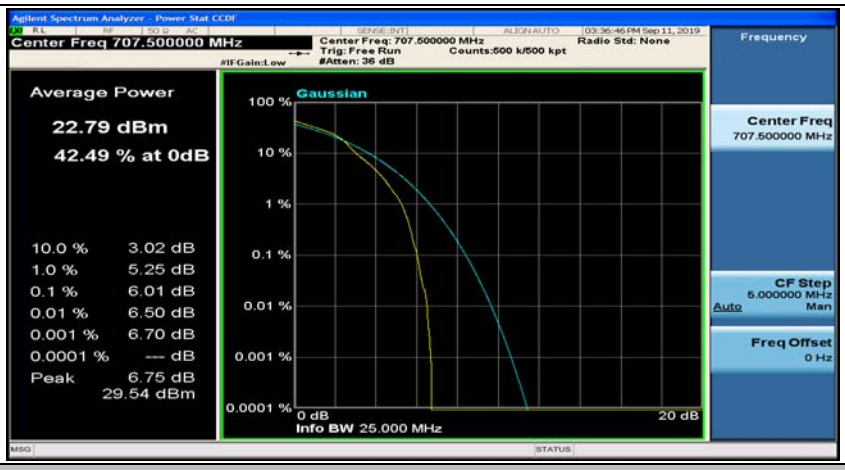
(Channel Bandwidth: 3 MHz)_LCH_16QAM_8RB#7

(Channel Bandwidth: 3 MHz)_LCH_16QAM_15RB#0

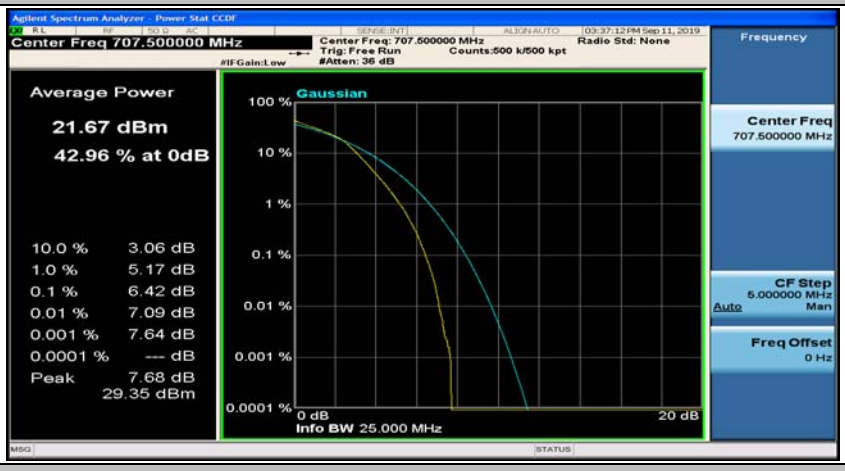
(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#0

(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#7

(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#14



(Channel Bandwidth: 3 MHz)_MCH_16QAM_8RB#0



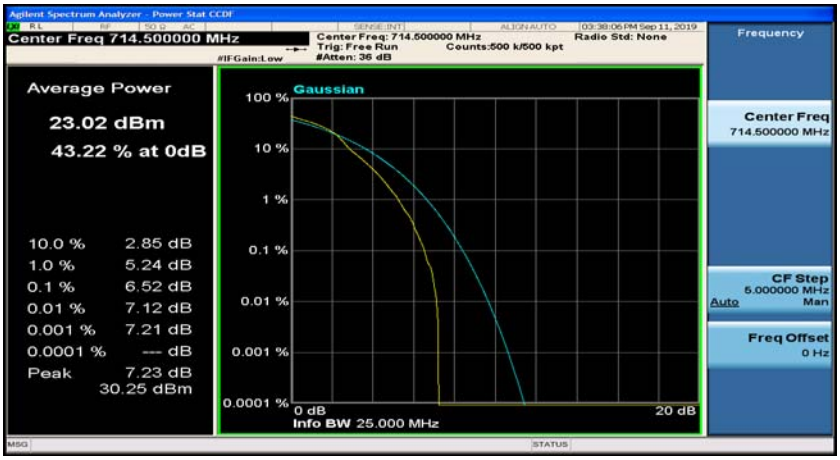
(Channel Bandwidth: 3 MHz)_MCH_16QAM_8RB#4

(Channel Bandwidth: 3 MHz)_MCH_16QAM_8RB#7

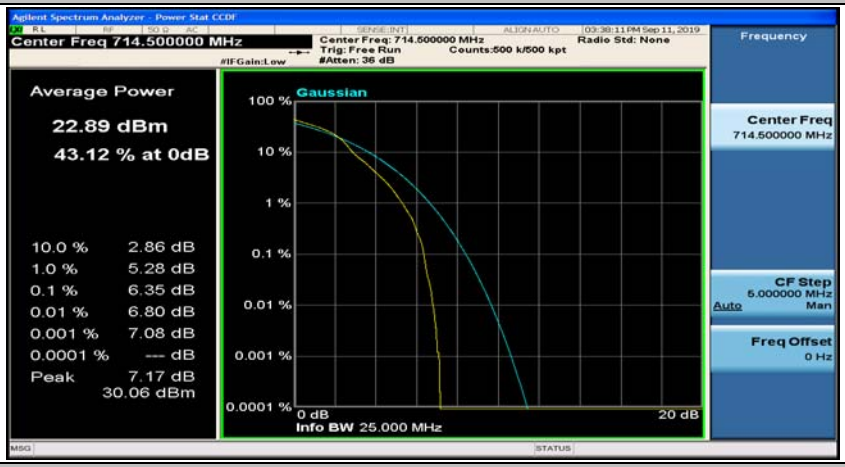
(Channel Bandwidth: 3 MHz)_MCH_16QAM_15RB#0

(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

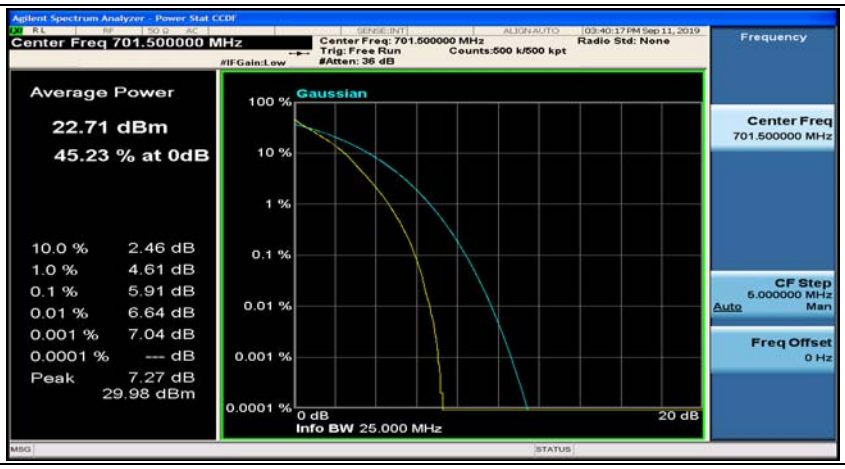
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#24

(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

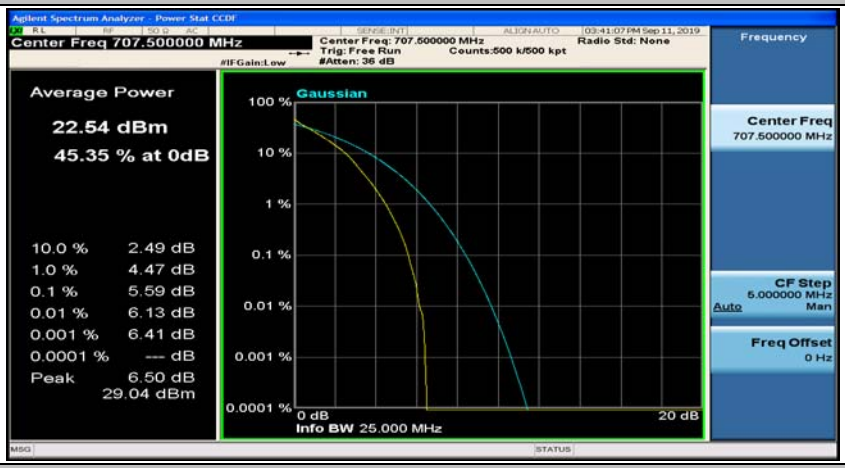


(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#0

(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#12

(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#24

(Channel Bandwidth: 5 MHz)_MCH_QPSK_12RB#0



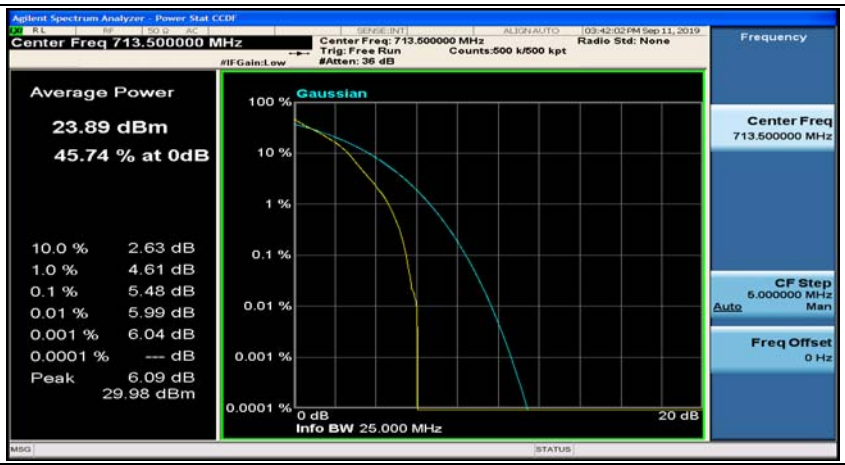
(Channel Bandwidth: 5 MHz)_MCH_QPSK_12RB#6

(Channel Bandwidth: 5 MHz)_MCH_QPSK_12RB#13

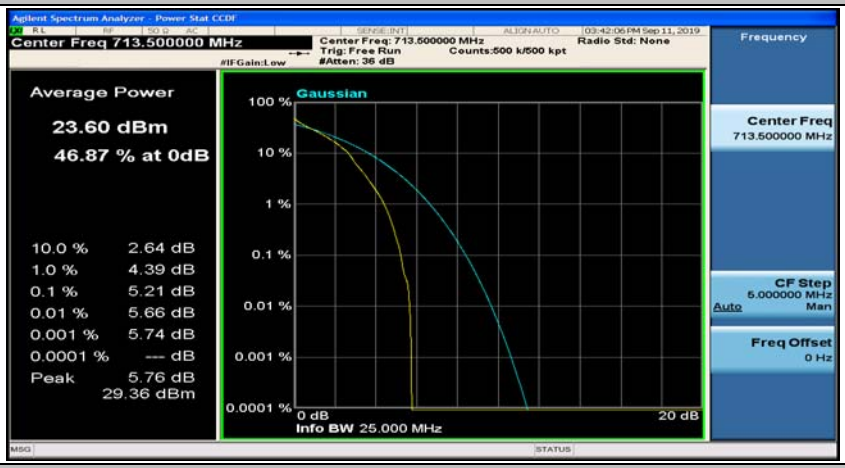
(Channel Bandwidth: 5 MHz)_MCH_QPSK_25RB#0

(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#0

(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#12

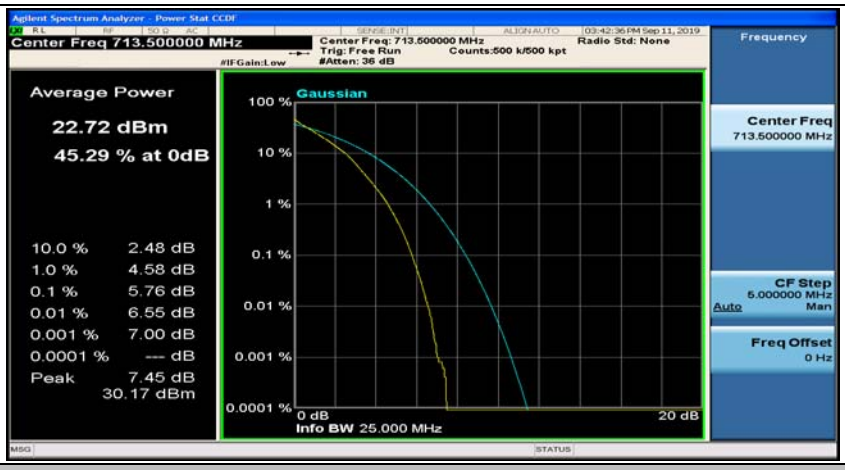


(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#24



(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