

Appendix for Band 5

Product Name: 4G Power Socket
Model No: GSMSOCUS4G

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	23.04	PASS
		1	3	23.08	PASS
		1	5	23.08	PASS
		3	0	22.91	PASS
		3	2	22.91	PASS
		3	3	22.91	PASS
		6	0	21.92	PASS
	MCH	1	0	22.83	PASS
		1	3	22.75	PASS
		1	5	22.74	PASS
		3	0	22.82	PASS
		3	2	22.86	PASS
		3	3	22.82	PASS
		6	0	21.88	PASS
	HCH	1	0	22.95	PASS
		1	3	23.00	PASS
		1	5	22.90	PASS
		3	0	23.04	PASS
		3	2	22.98	PASS
		3	3	22.94	PASS
		6	0	22.18	PASS
16QAM	LCH	1	0	22.15	PASS
		1	3	22.18	PASS
		1	5	22.13	PASS
		3	0	22.17	PASS
		3	2	22.22	PASS
		3	3	22.24	PASS
		6	0	20.80	PASS
	MCH	1	0	22.12	PASS
		1	3	22.14	PASS
		1	5	22.15	PASS
		3	0	22.13	PASS
		3	2	22.21	PASS

		3	3	22.17	PASS
		6	0	20.81	PASS
	HCH	1	0	22.14	PASS
		1	3	21.98	PASS
		1	5	21.71	PASS
		3	0	22.05	PASS
		3	2	21.89	PASS
		3	3	21.60	PASS
		6	0	21.47	PASS

Channel Bandwidth: 3 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	22.84	PASS
		1	7	23.10	PASS
		1	14	23.12	PASS
		8	0	21.93	PASS
		8	4	22.00	PASS
		8	7	22.00	PASS
		15	0	21.96	PASS
	MCH	1	0	23.00	PASS
		1	7	23.07	PASS
		1	14	22.88	PASS
		8	0	21.97	PASS
		8	4	22.01	PASS
		8	7	21.97	PASS
		15	0	21.93	PASS
	HCH	1	0	22.91	PASS
		1	7	23.25	PASS
		1	14	22.82	PASS
		8	0	22.09	PASS
		8	4	22.02	PASS
		8	7	22.05	PASS
		15	0	22.20	PASS
16QAM	LCH	1	0	22.26	PASS
		1	7	22.59	PASS
		1	14	22.50	PASS
		8	0	20.79	PASS
		8	4	20.91	PASS
		8	7	21.13	PASS
		15	0	20.83	PASS

	MCH	1	0	22.29	PASS
		1	7	22.29	PASS
		1	14	22.04	PASS
		8	0	21.02	PASS
		8	4	21.06	PASS
		8	7	21.02	PASS
		15	0	20.99	PASS
	HCH	1	0	22.07	PASS
		1	7	22.08	PASS
		1	14	21.56	PASS
		8	0	21.01	PASS
		8	4	20.98	PASS
		8	7	20.86	PASS
		15	0	21.16	PASS

Channel Bandwidth: 5 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	22.80	PASS
		1	12	23.29	PASS
		1	24	23.22	PASS
		12	0	21.84	PASS
		12	6	21.92	PASS
		12	13	22.04	PASS
		25	0	22.01	PASS
	MCH	1	0	22.91	PASS
		1	12	23.00	PASS
		1	24	22.58	PASS
		12	0	21.99	PASS
		12	6	22.04	PASS
		12	13	21.87	PASS
		25	0	21.99	PASS
	HCH	1	0	22.80	PASS
		1	12	23.35	PASS
		1	24	22.76	PASS
		12	0	22.16	PASS
		12	6	22.27	PASS
		12	13	22.15	PASS
		25	0	22.16	PASS
16QAM	LCH	1	0	21.61	PASS
		1	12	22.09	PASS

		1	24	22.05	PASS
		12	0	20.87	PASS
		12	6	20.96	PASS
		12	13	21.02	PASS
		25	0	21.08	PASS
	MCH	1	0	22.17	PASS
		1	12	22.24	PASS
		1	24	21.38	PASS
		12	0	21.15	PASS
		12	6	21.21	PASS
		12	13	20.90	PASS
		25	0	20.97	PASS
	HCH	1	0	21.76	PASS
		1	12	22.20	PASS
		1	24	21.47	PASS
		12	0	20.97	PASS
		12	6	20.95	PASS
		12	13	20.98	PASS
		25	0	21.35	PASS

Channel Bandwidth: 10 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	22.71	PASS
		1	24	23.45	PASS
		1	49	23.14	PASS
		25	0	22.12	PASS
		25	12	22.20	PASS
		25	25	22.15	PASS
		50	0	21.96	PASS
	MCH	1	0	23.00	PASS
		1	24	23.29	PASS
		1	49	22.74	PASS
		25	0	22.07	PASS
		25	12	22.10	PASS
		25	25	21.90	PASS
		50	0	22.02	PASS
	HCH	1	0	22.89	PASS
		1	24	23.29	PASS
		1	49	22.98	PASS
		25	0	22.04	PASS

		25	12	22.24	PASS
		25	25	22.26	PASS
		50	0	22.06	PASS
16QAM	LCH	1	0	22.19	PASS
		1	24	23.16	PASS
		1	49	23.08	PASS
		25	0	21.18	PASS
		25	12	21.28	PASS
		25	25	21.19	PASS
		50	0	21.03	PASS
	MCH	1	0	22.55	PASS
		1	24	22.79	PASS
		1	49	22.21	PASS
		25	0	21.27	PASS
		25	12	21.18	PASS
		25	25	20.85	PASS
		50	0	21.02	PASS
	HCH	1	0	22.00	PASS
		1	24	22.18	PASS
		1	49	21.62	PASS
		25	0	21.10	PASS
		25	12	21.38	PASS
		25	25	21.47	PASS
		50	0	21.15	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	3.39	<13	PASS
		1	3	3.33	<13	PASS
		1	5	3.51	<13	PASS
		3	0	3.58	<13	PASS
		3	2	3.58	<13	PASS
		3	3	3.67	<13	PASS
		6	0	4.57	<13	PASS
	MCH	1	0	3.88	<13	PASS
		1	3	3.74	<13	PASS
		1	5	3.85	<13	PASS
		3	0	4.27	<13	PASS
		3	2	4.1	<13	PASS
		3	3	4.21	<13	PASS
		6	0	5.15	<13	PASS
	HCH	1	0	3.82	<13	PASS
		1	3	3.62	<13	PASS
		1	5	3.7	<13	PASS
		3	0	4.11	<13	PASS
		3	2	3.92	<13	PASS
		3	3	3.94	<13	PASS
		6	0	4.96	<13	PASS
16QAM	LCH	1	0	4.17	<13	PASS
		1	3	4.15	<13	PASS
		1	5	4.27	<13	PASS
		3	0	4.43	<13	PASS
		3	2	4.35	<13	PASS
		3	3	4.47	<13	PASS
		6	0	5.35	<13	PASS
	MCH	1	0	4.81	<13	PASS
		1	3	4.51	<13	PASS
		1	5	4.64	<13	PASS

		3	0	5.08	<13	PASS
		3	2	4.91	<13	PASS
		3	3	5.05	<13	PASS
		6	0	6.05	<13	PASS
	HCH	1	0	4.7	<13	PASS
		1	3	4.55	<13	PASS
		1	5	4.54	<13	PASS
		3	0	4.82	<13	PASS
		3	2	4.65	<13	PASS
		3	3	4.77	<13	PASS
		6	0	5.81	<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	3.42	<13	PASS
		1	7	3.42	<13	PASS
		1	14	3.73	<13	PASS
		8	0	4.32	<13	PASS
		8	4	4.35	<13	PASS
		8	7	4.55	<13	PASS
		15	0	4.74	<13	PASS
	MCH	1	0	3.97	<13	PASS
		1	7	3.79	<13	PASS
		1	14	3.83	<13	PASS
		8	0	4.79	<13	PASS
		8	4	4.65	<13	PASS
		8	7	4.73	<13	PASS
		15	0	5.33	<13	PASS
	HCH	1	0	4.11	<13	PASS
		1	7	3.82	<13	PASS
		1	14	3.73	<13	PASS
		8	0	5.02	<13	PASS
		8	4	4.75	<13	PASS
		8	7	4.67	<13	PASS
		15	0	5.27	<13	PASS
16QAM	LCH	1	0	4.1	<13	PASS
		1	7	4.26	<13	PASS
		1	14	4.51	<13	PASS
		8	0	5.16	<13	PASS

		8	4	5.23	<13	PASS
		8	7	5.38	<13	PASS
		15	0	5.62	<13	PASS
	MCH	1	0	4.81	<13	PASS
		1	7	4.58	<13	PASS
		1	14	4.51	<13	PASS
		8	0	5.61	<13	PASS
		8	4	5.49	<13	PASS
		8	7	5.59	<13	PASS
		15	0	6.13	<13	PASS
	HCH	1	0	4.81	<13	PASS
		1	7	4.66	<13	PASS
		1	14	4.6	<13	PASS
		8	0	5.88	<13	PASS
		8	4	5.63	<13	PASS
		8	7	5.6	<13	PASS
		15	0	6.09	<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	3.4	<13	PASS
		1	12	3.56	<13	PASS
		1	24	4.03	<13	PASS
		12	0	4.35	<13	PASS
		12	6	4.41	<13	PASS
		12	13	4.82	<13	PASS
		25	0	4.98	<13	PASS
	MCH	1	0	3.97	<13	PASS
		1	12	3.81	<13	PASS
		1	24	3.75	<13	PASS
		12	0	4.72	<13	PASS
		12	6	4.52	<13	PASS
		12	13	4.55	<13	PASS
		25	0	5.21	<13	PASS
	HCH	1	0	3.95	<13	PASS
		1	12	3.94	<13	PASS
		1	24	3.73	<13	PASS
		12	0	4.94	<13	PASS
		12	6	4.79	<13	PASS

		12	13	4.69	<13	PASS
		25	0	5.31	<13	PASS
16QAM	LCH	1	0	4.23	<13	PASS
		1	12	4.37	<13	PASS
		1	24	4.82	<13	PASS
		12	0	5.19	<13	PASS
		12	6	5.3	<13	PASS
		12	13	5.65	<13	PASS
		25	0	5.73	<13	PASS
		25	0	5.73	<13	PASS
	MCH	1	0	4.82	<13	PASS
		1	12	4.54	<13	PASS
		1	24	4.37	<13	PASS
		12	0	5.57	<13	PASS
		12	6	5.43	<13	PASS
		12	13	5.39	<13	PASS
		25	0	6.04	<13	PASS
		25	0	6.04	<13	PASS
	HCH	1	0	4.64	<13	PASS
		1	12	4.66	<13	PASS
		1	24	4.45	<13	PASS
		12	0	5.82	<13	PASS
		12	6	5.58	<13	PASS
		12	13	5.6	<13	PASS
		25	0	6.14	<13	PASS
		25	0	6.14	<13	PASS

Channel Bandwidth: 10 MHz

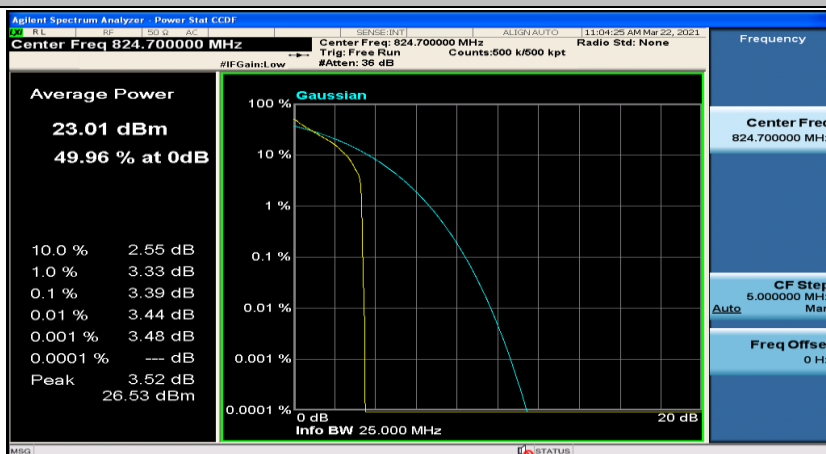
Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	LCH	1	0	3.32	<13	PASS
		1	24	3.96	<13	PASS
		1	49	4.01	<13	PASS
		25	0	4.59	<13	PASS
		25	12	4.89	<13	PASS
		25	25	5.17	<13	PASS
		50	0	5.56	<13	PASS
	MCH	1	0	4.07	<13	PASS
		1	24	3.77	<13	PASS
		1	49	3.69	<13	PASS
		25	0	4.82	<13	PASS
		25	12	4.57	<13	PASS
		25	25	4.59	<13	PASS
		25	25	4.59	<13	PASS

		50	0	5.23	<13	PASS
	HCH	1	0	3.63	<13	PASS
		1	24	3.88	<13	PASS
		1	49	3.66	<13	PASS
		25	0	4.73	<13	PASS
		25	12	4.8	<13	PASS
		25	25	4.88	<13	PASS
		50	0	5.35	<13	PASS
16QAM	LCH	1	0	4.09	<13	PASS
		1	24	4.65	<13	PASS
		1	49	4.9	<13	PASS
		25	0	5.55	<13	PASS
		25	12	5.77	<13	PASS
		25	25	6.04	<13	PASS
		50	0	6.32	<13	PASS
	MCH	1	0	4.96	<13	PASS
		1	24	4.61	<13	PASS
		1	49	4.54	<13	PASS
		25	0	5.82	<13	PASS
		25	12	5.45	<13	PASS
		25	25	5.45	<13	PASS
		50	0	6.05	<13	PASS
	HCH	1	0	4.47	<13	PASS
		1	24	4.71	<13	PASS
		1	49	4.59	<13	PASS
		25	0	5.64	<13	PASS
		25	12	5.73	<13	PASS
		25	25	5.83	<13	PASS
		50	0	6.11	<13	PASS

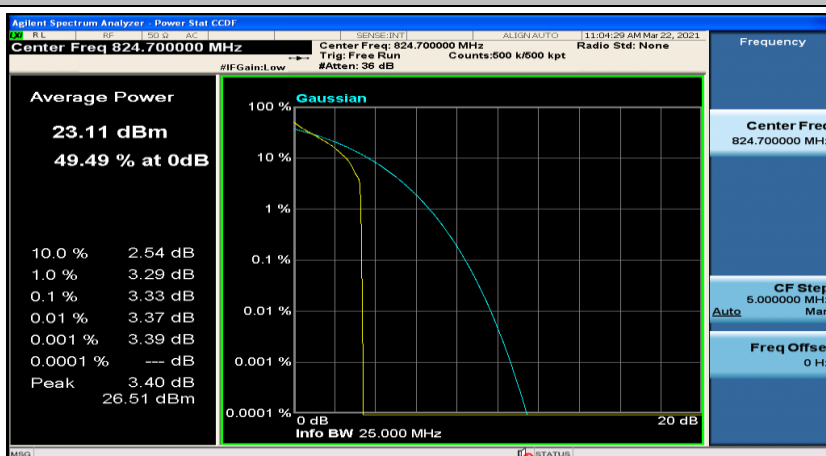
Test Graphs

Channel Bandwidth: 1.4 MHz

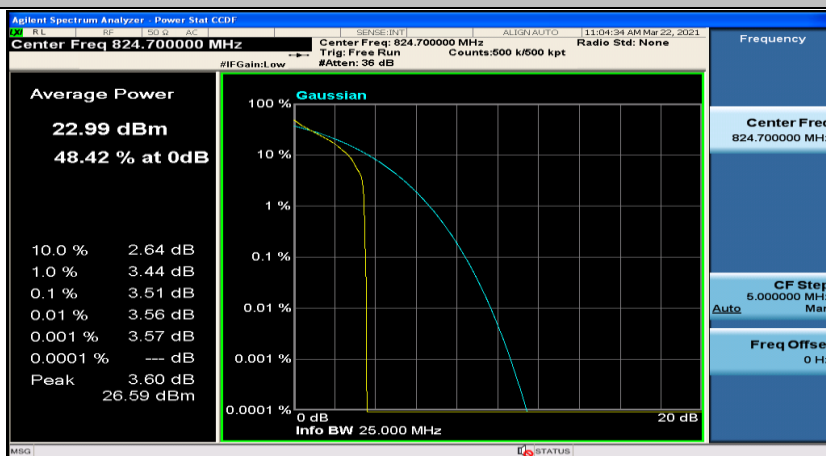
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#0



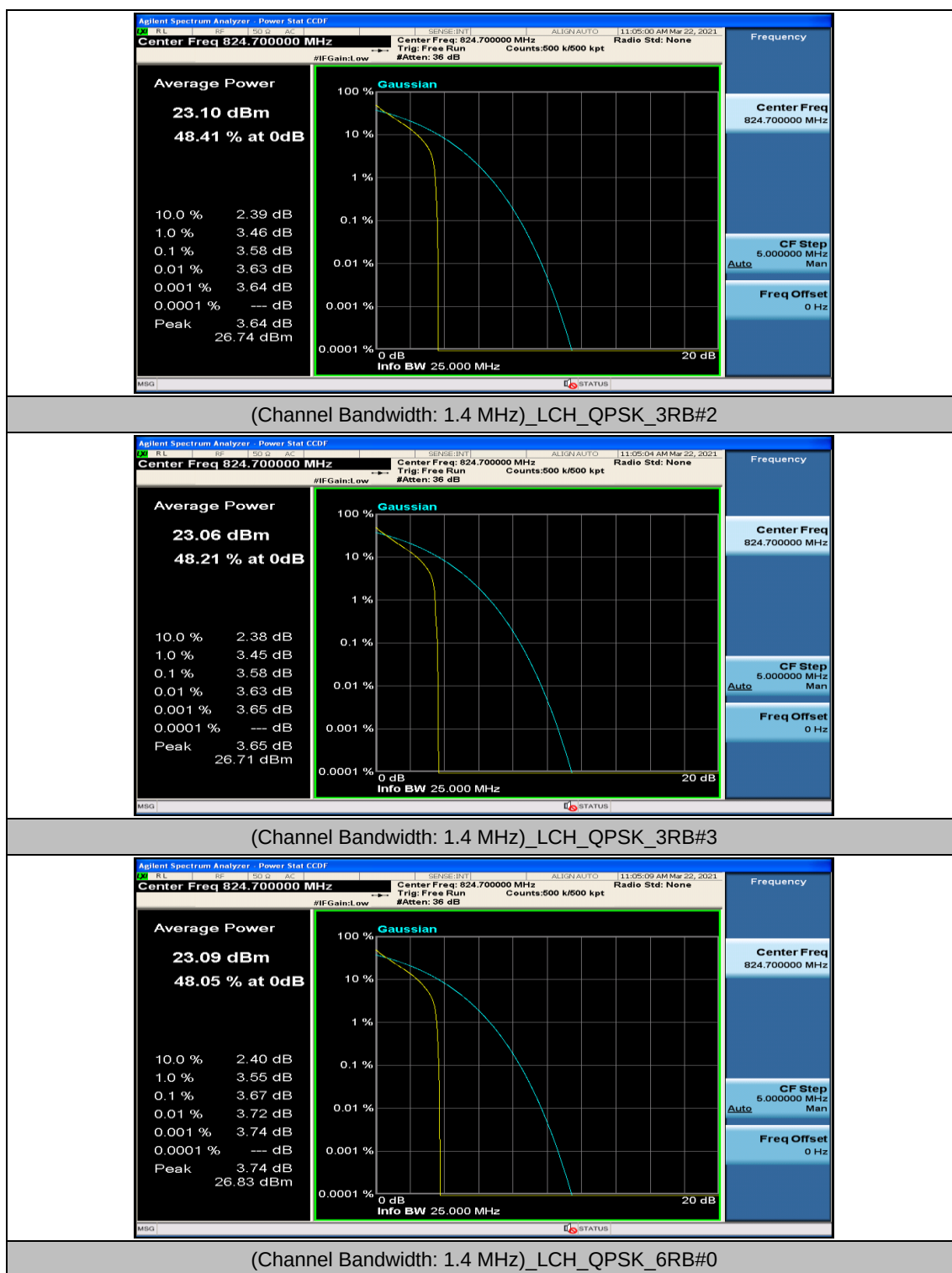
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#3

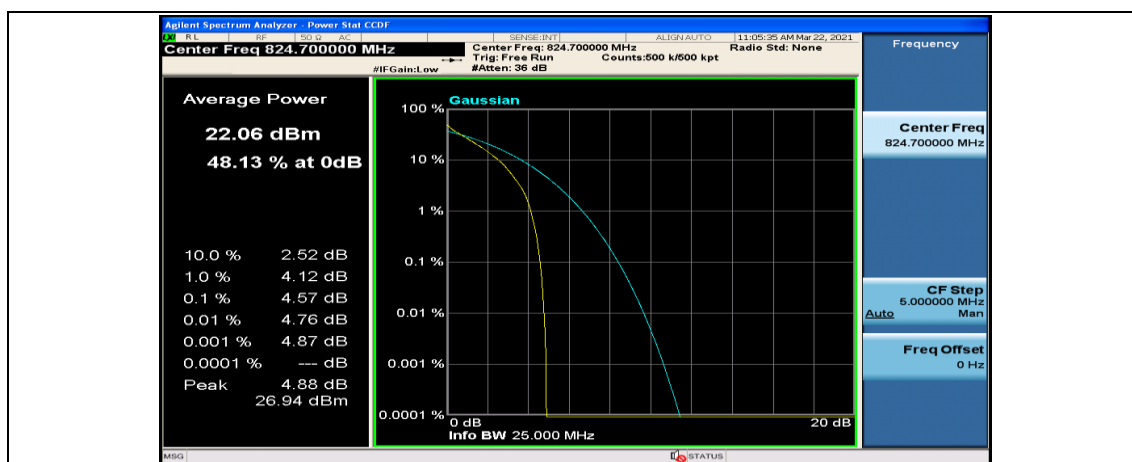


(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#5

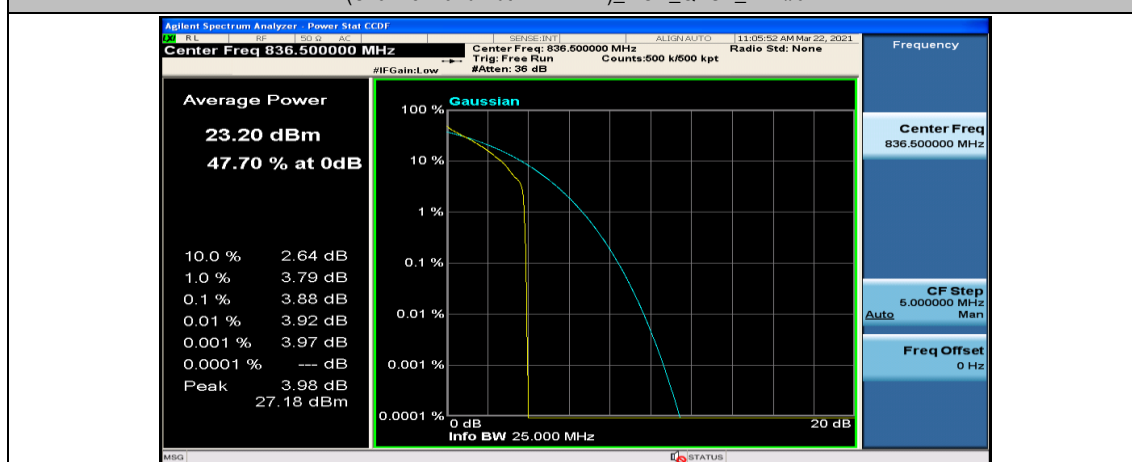


(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_3RB#0

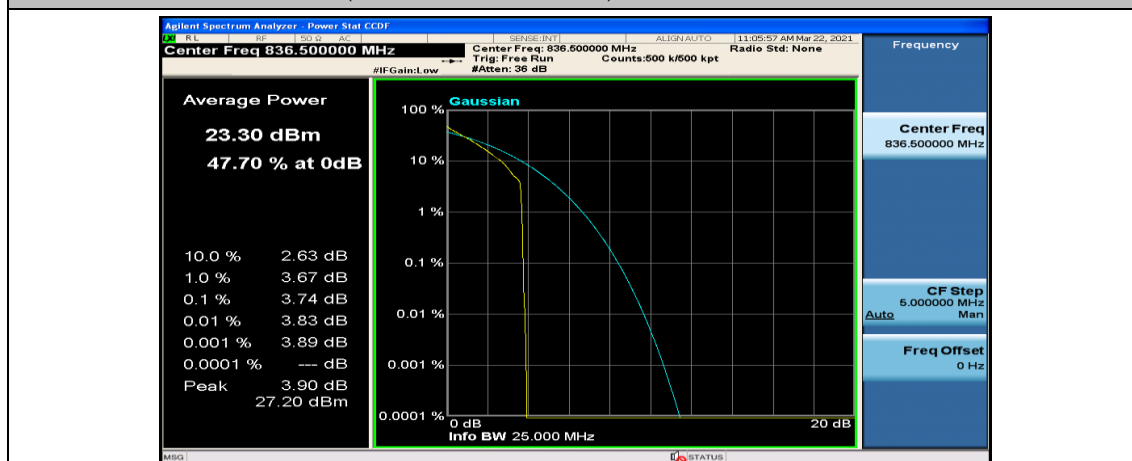




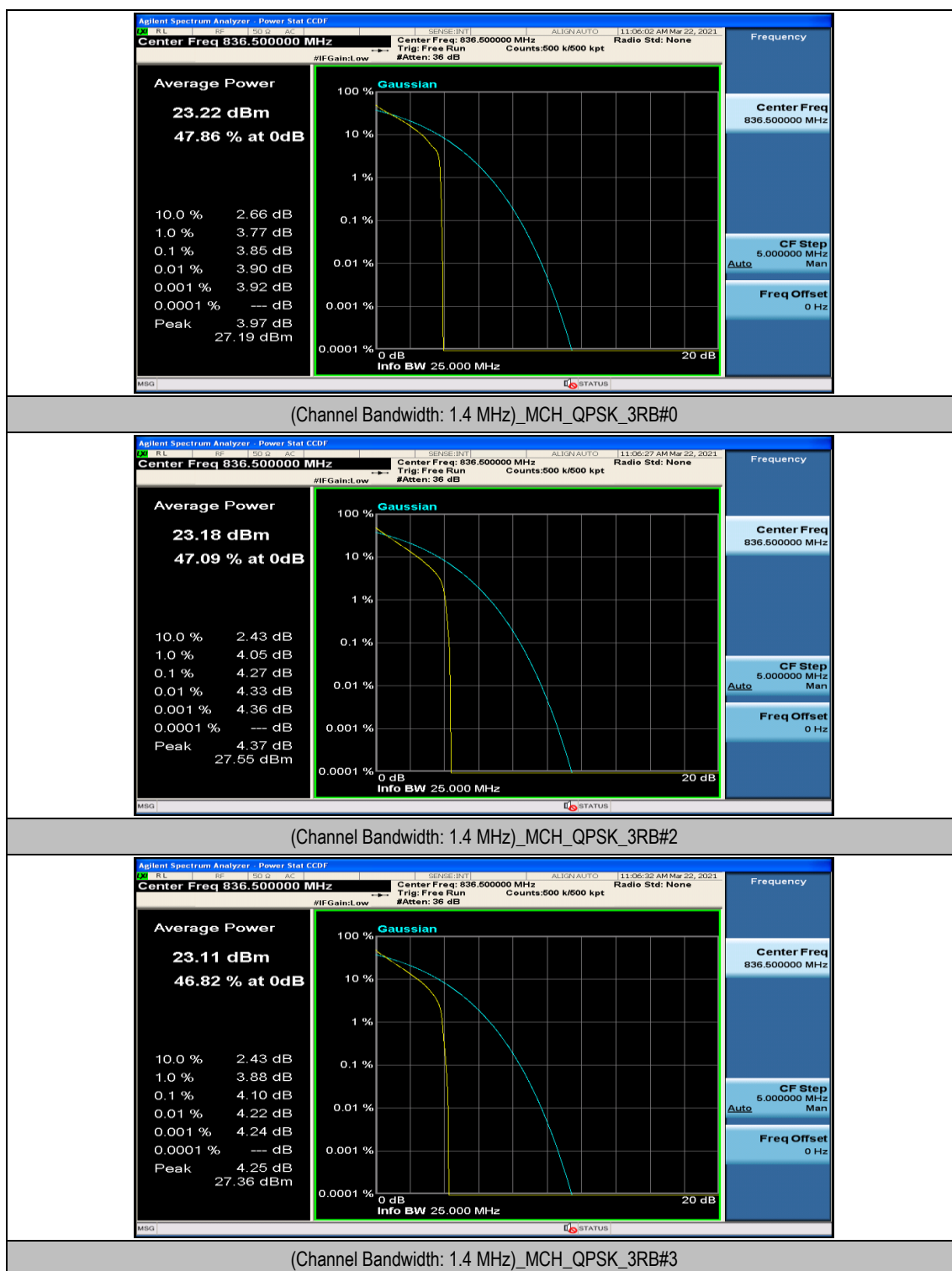
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#0

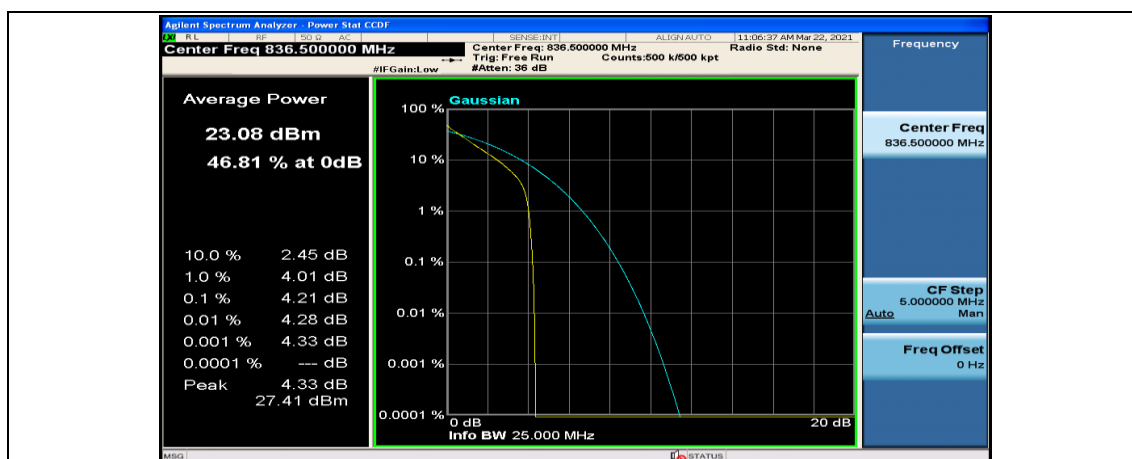


(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#3

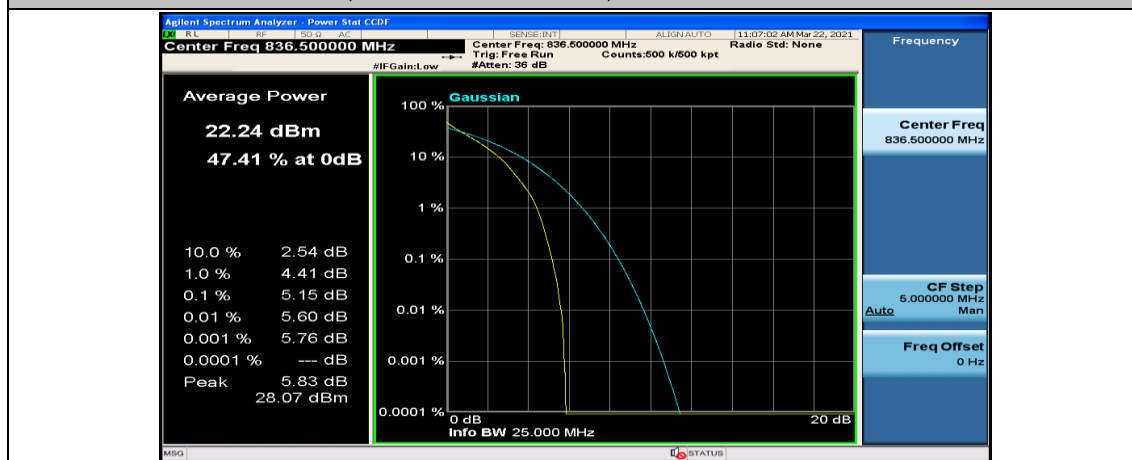


(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#5

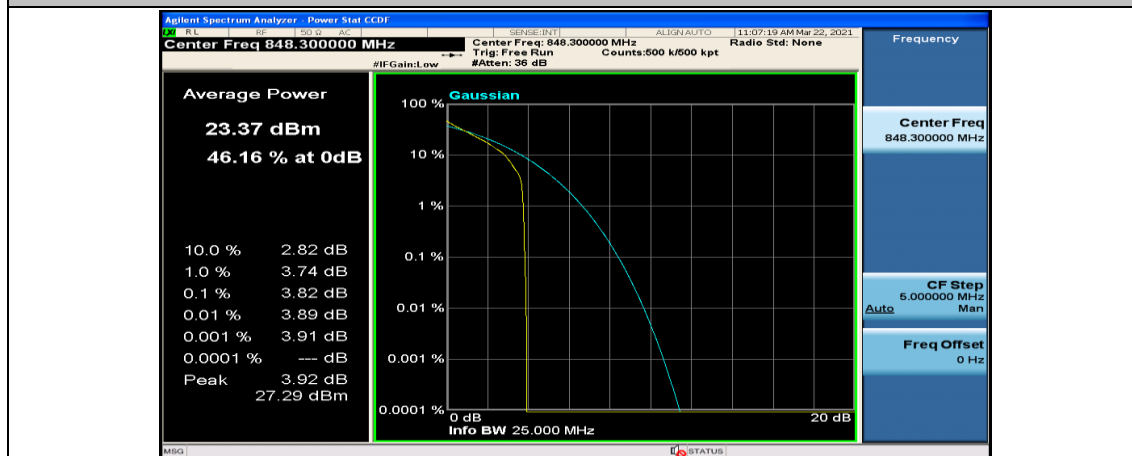




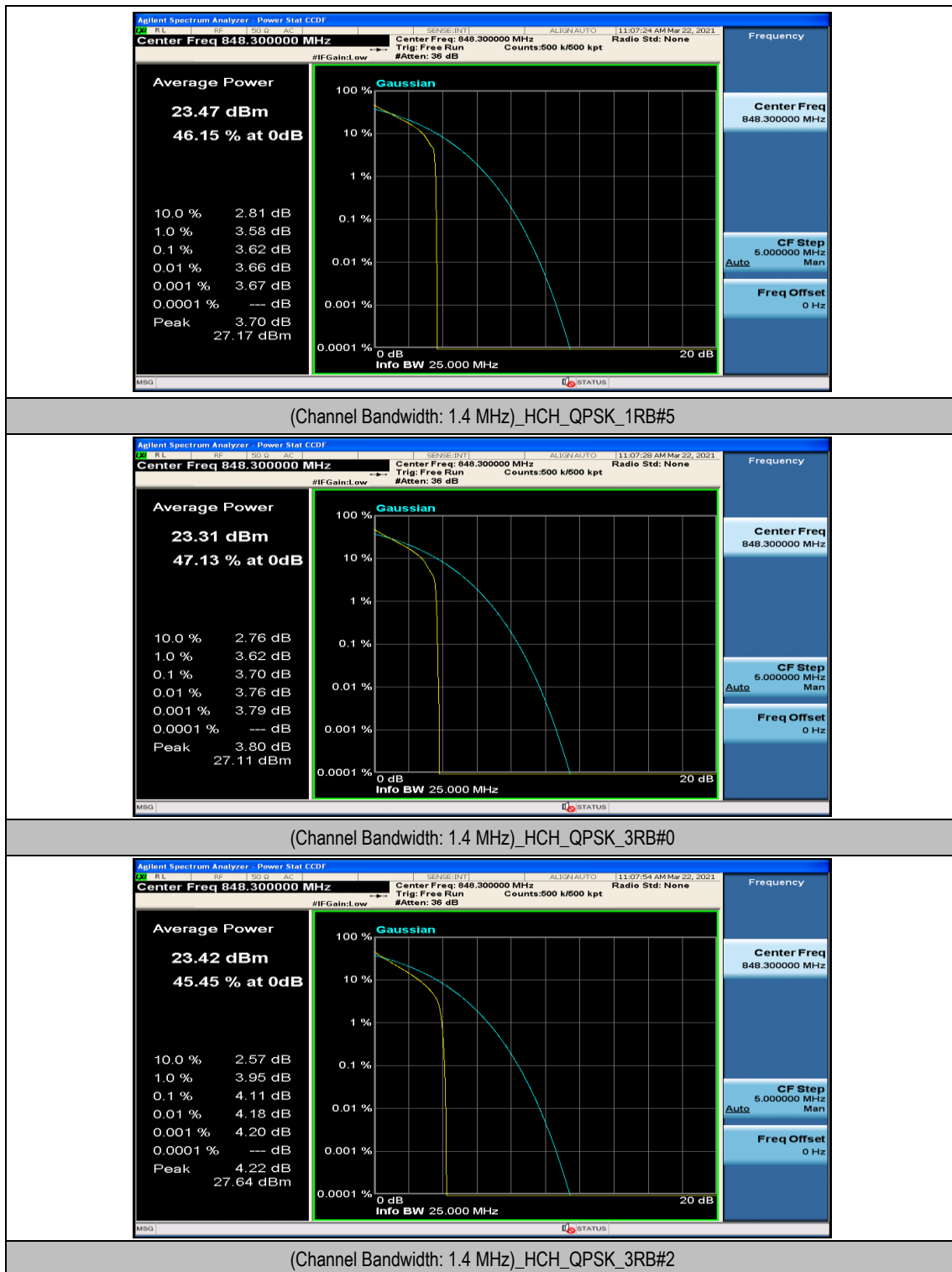
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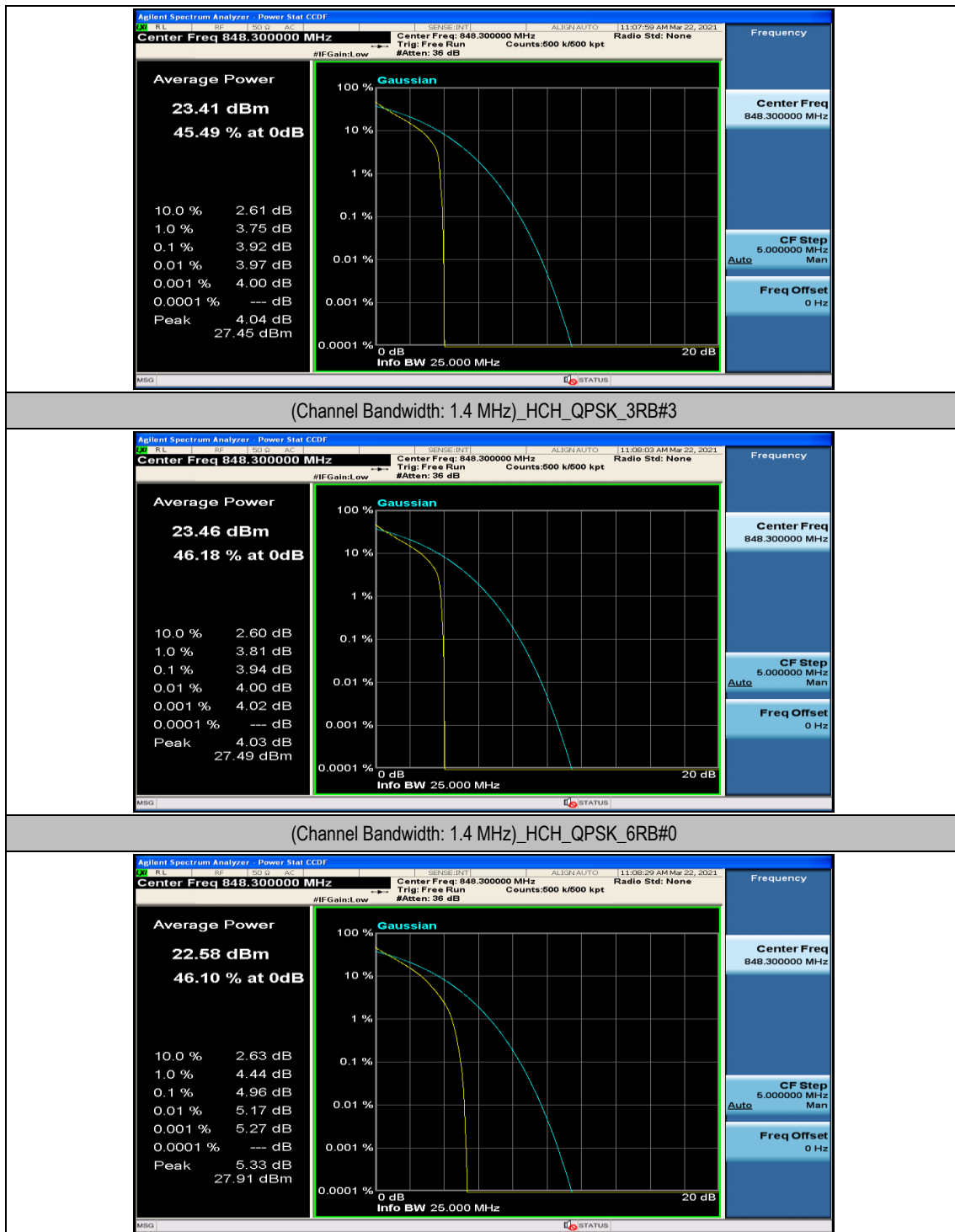


(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#0

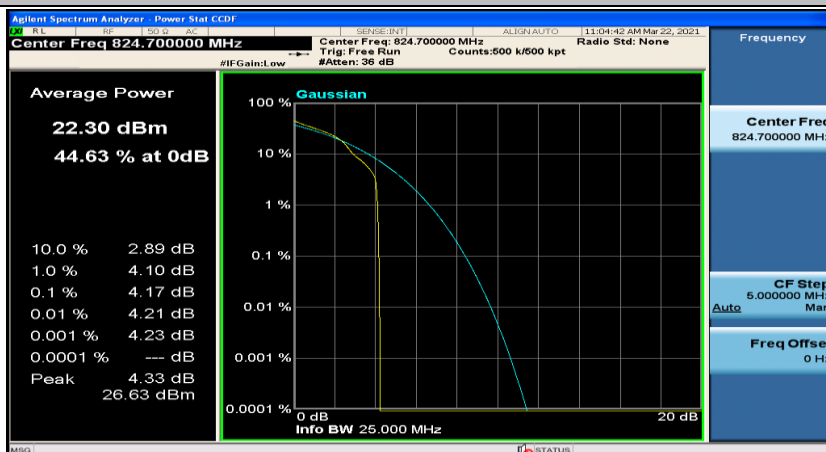


(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#3

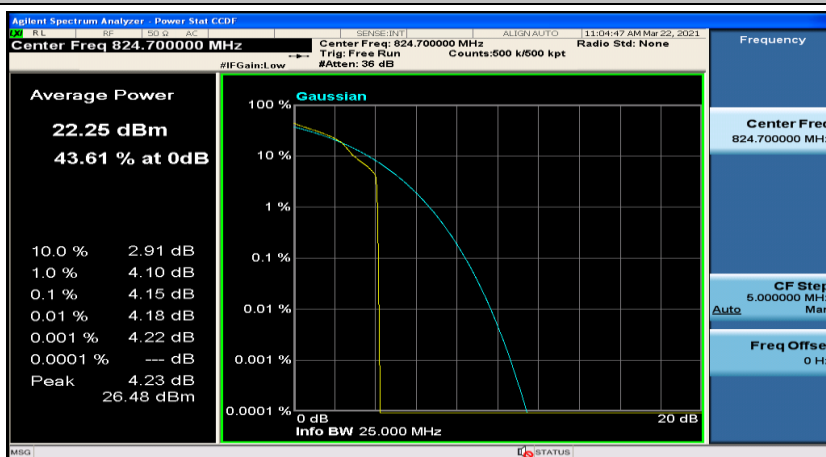




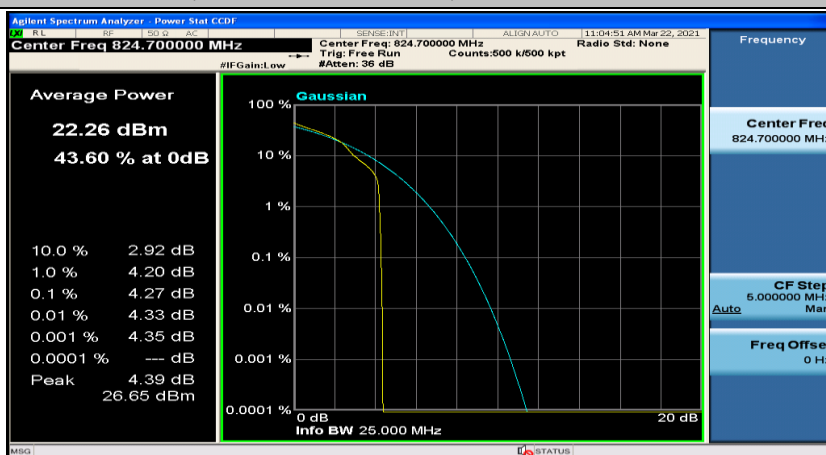
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#0



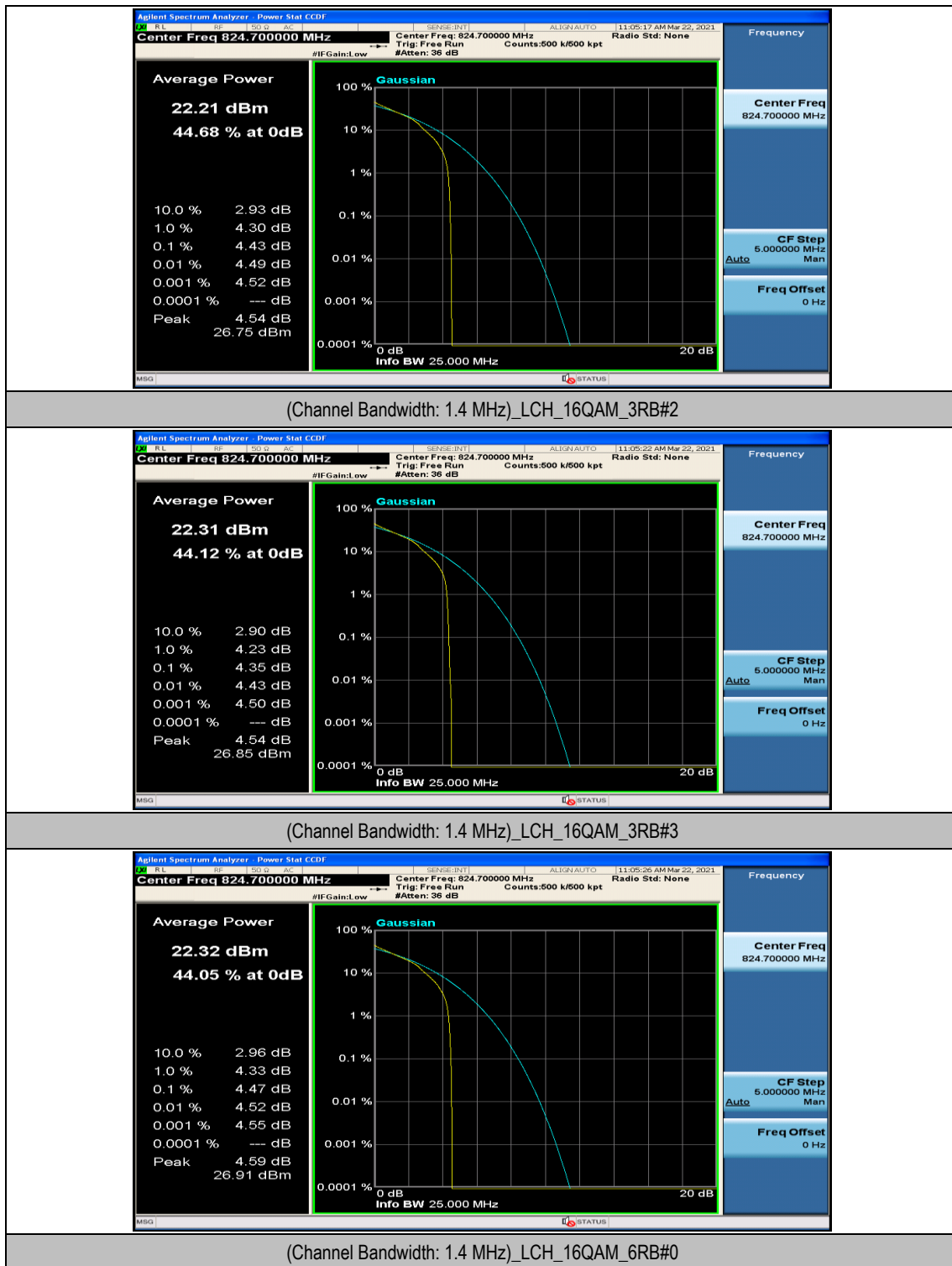
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#3

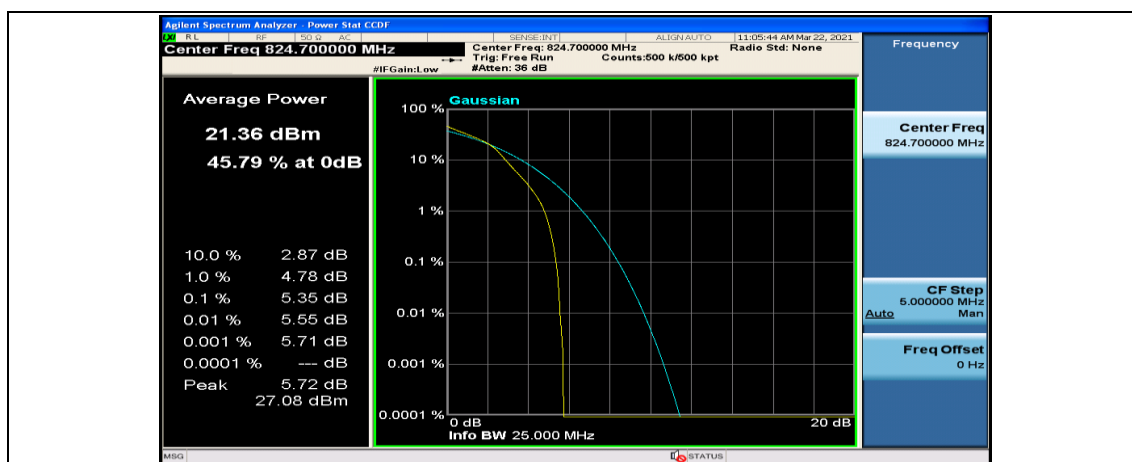


(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#5

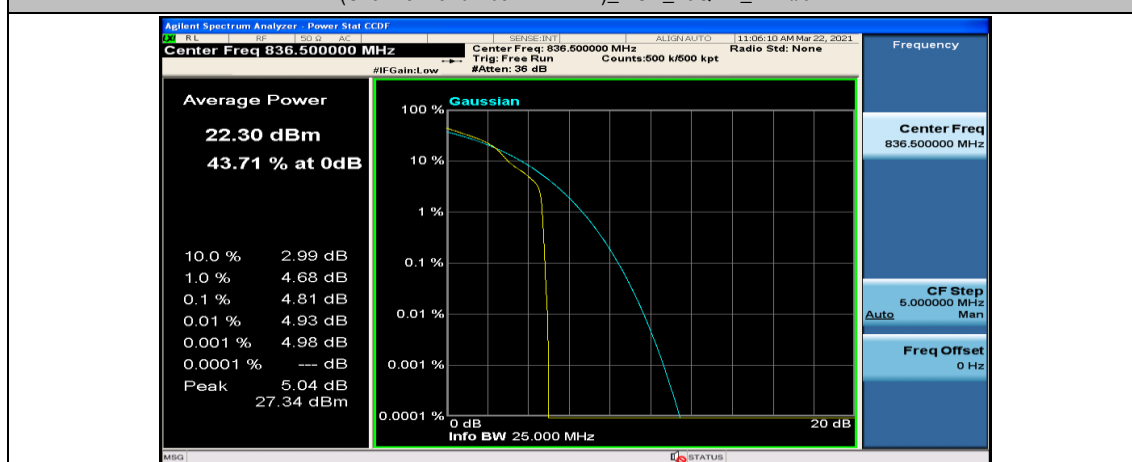


(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_3RB#0

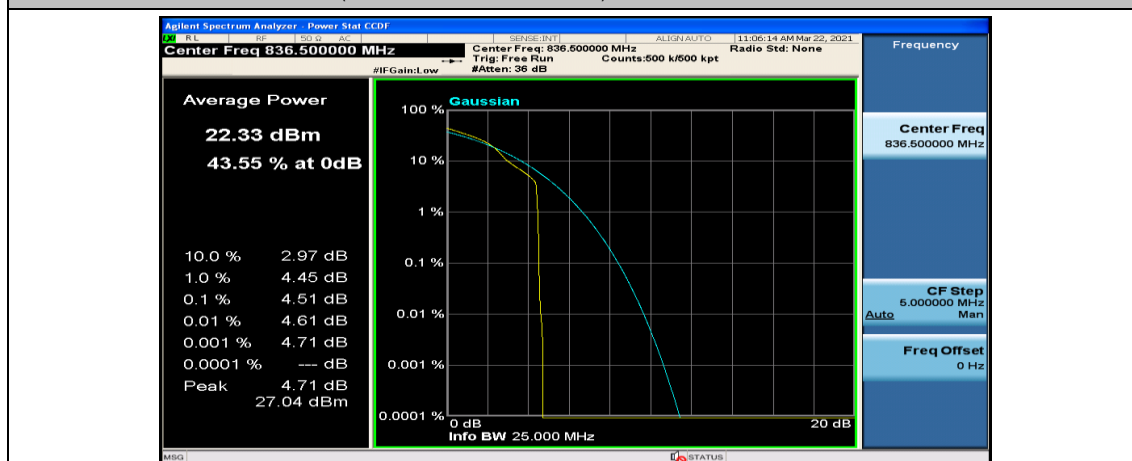




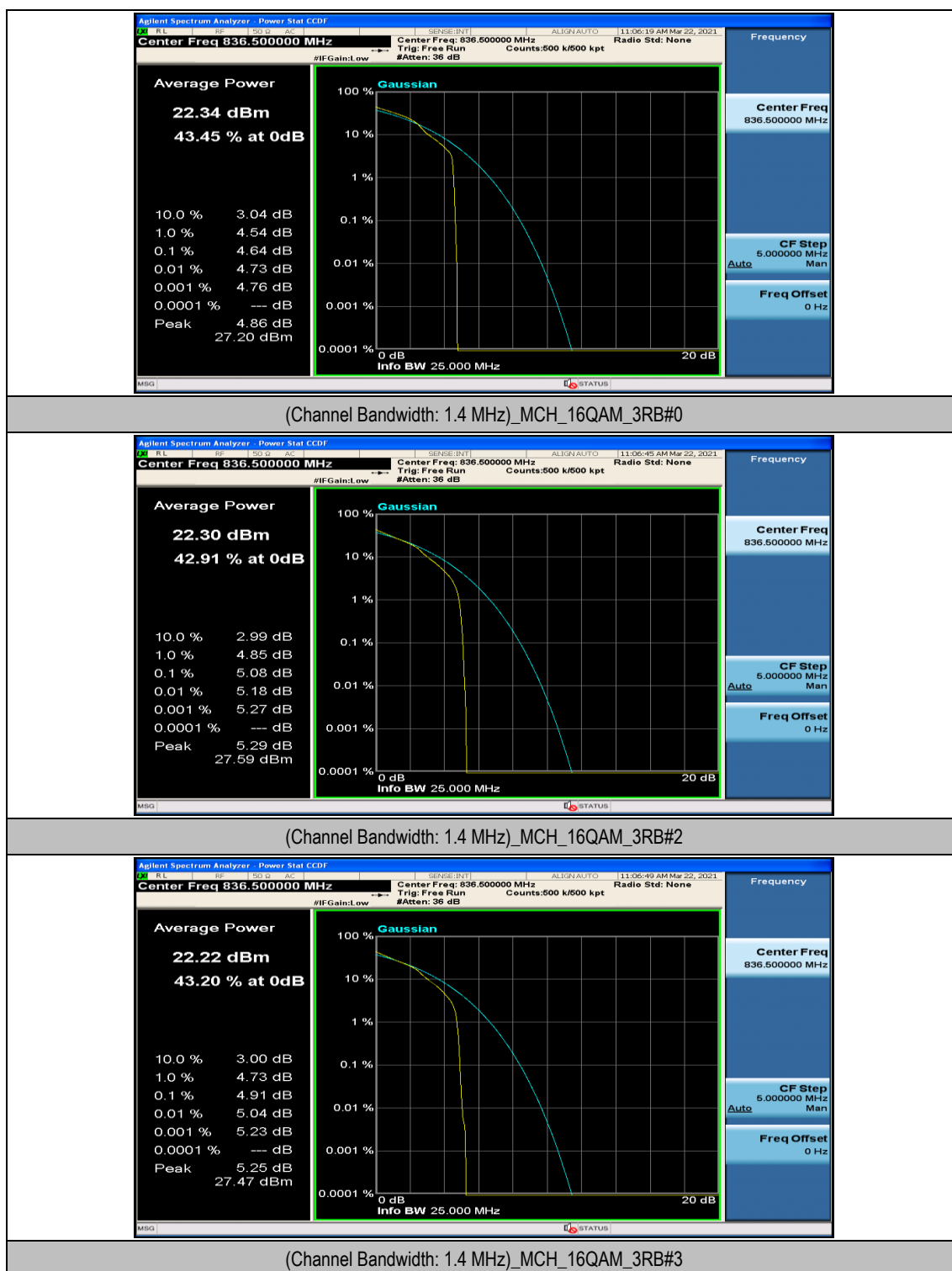
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#0

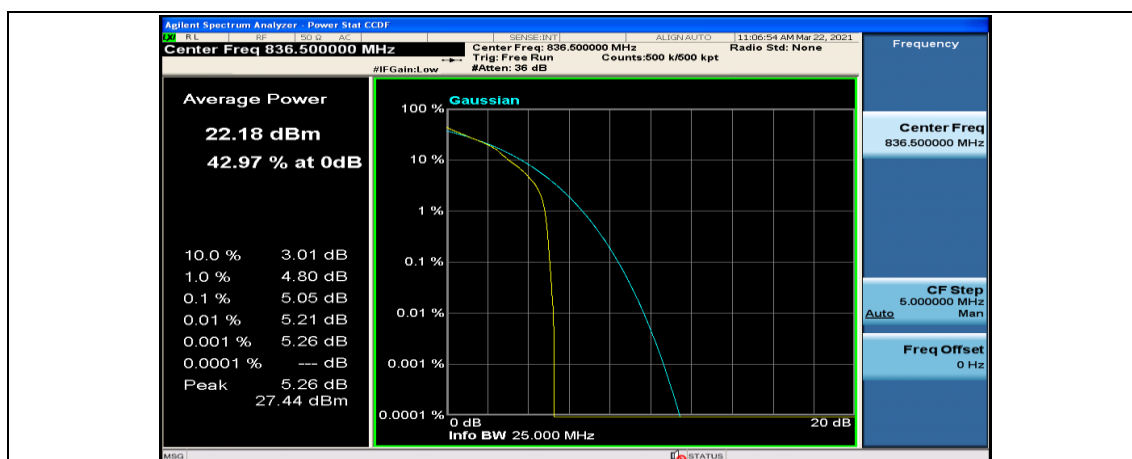


(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#3

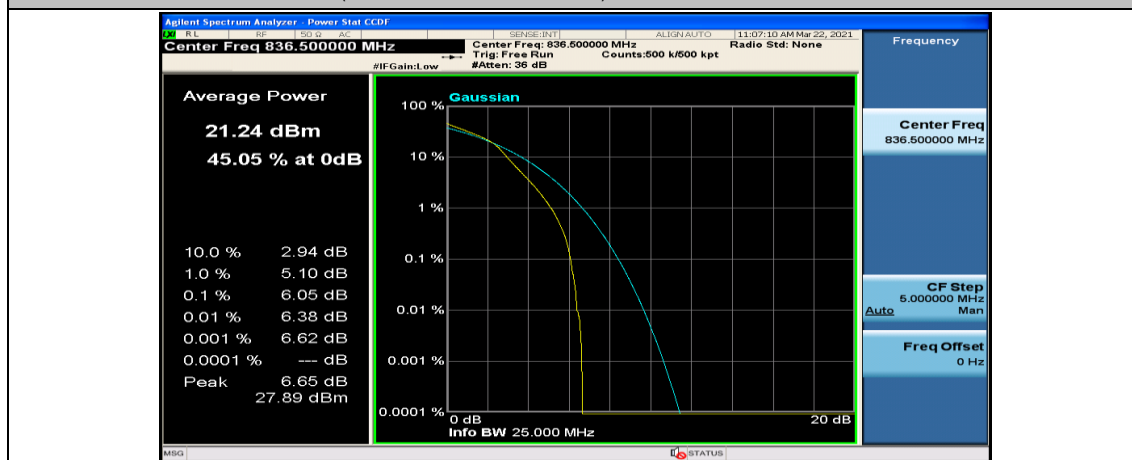


(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#5

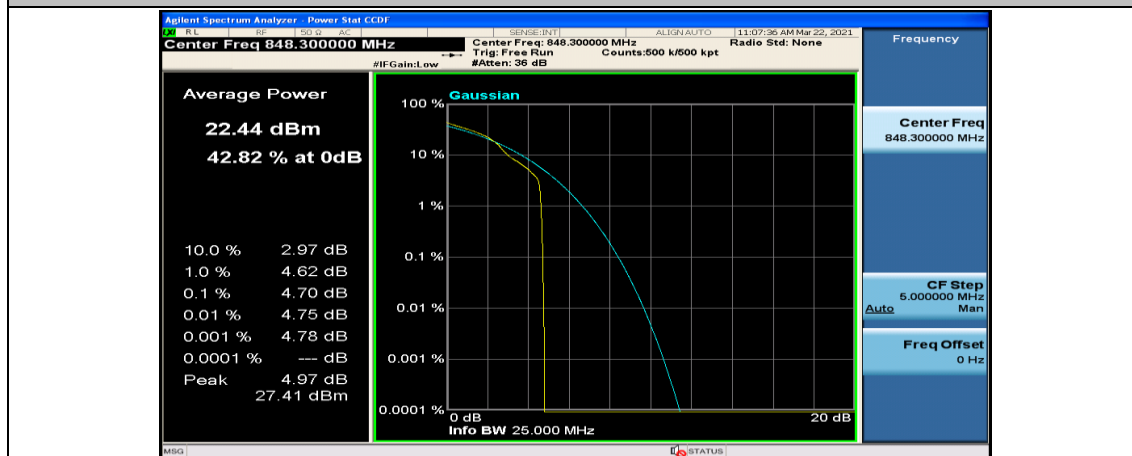




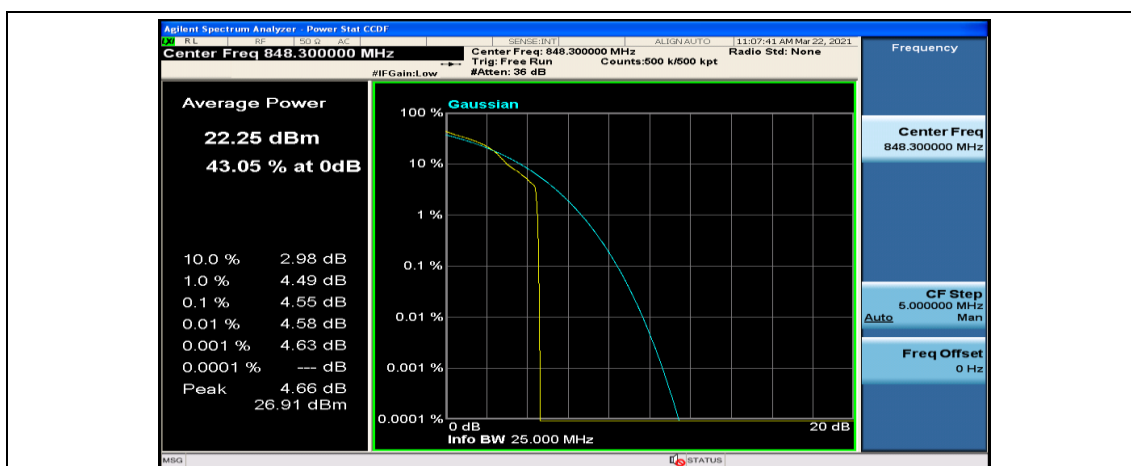
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_6RB#0



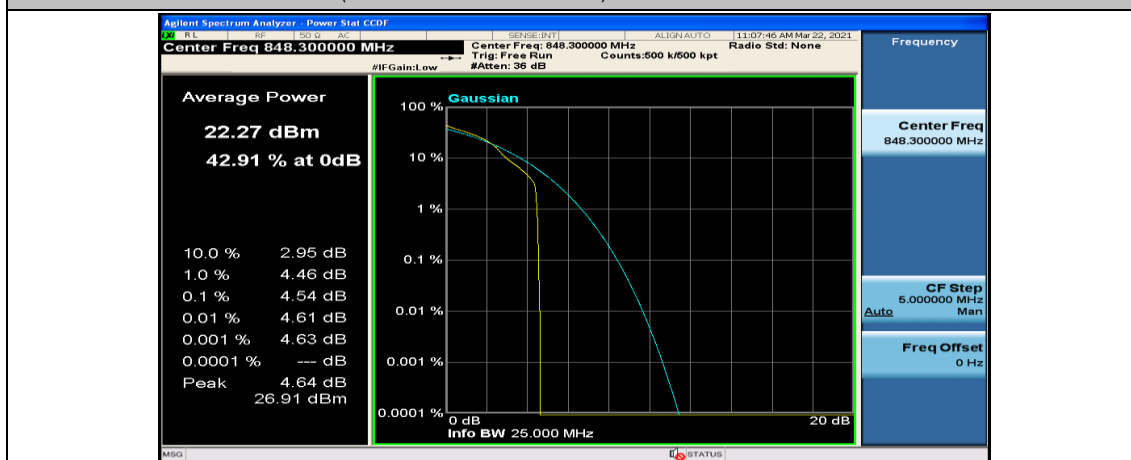
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#0



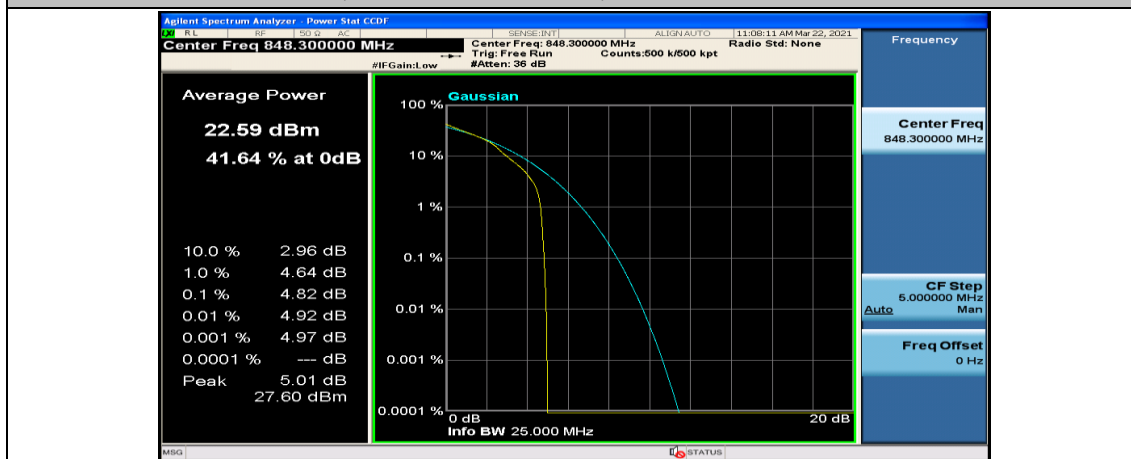
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#3



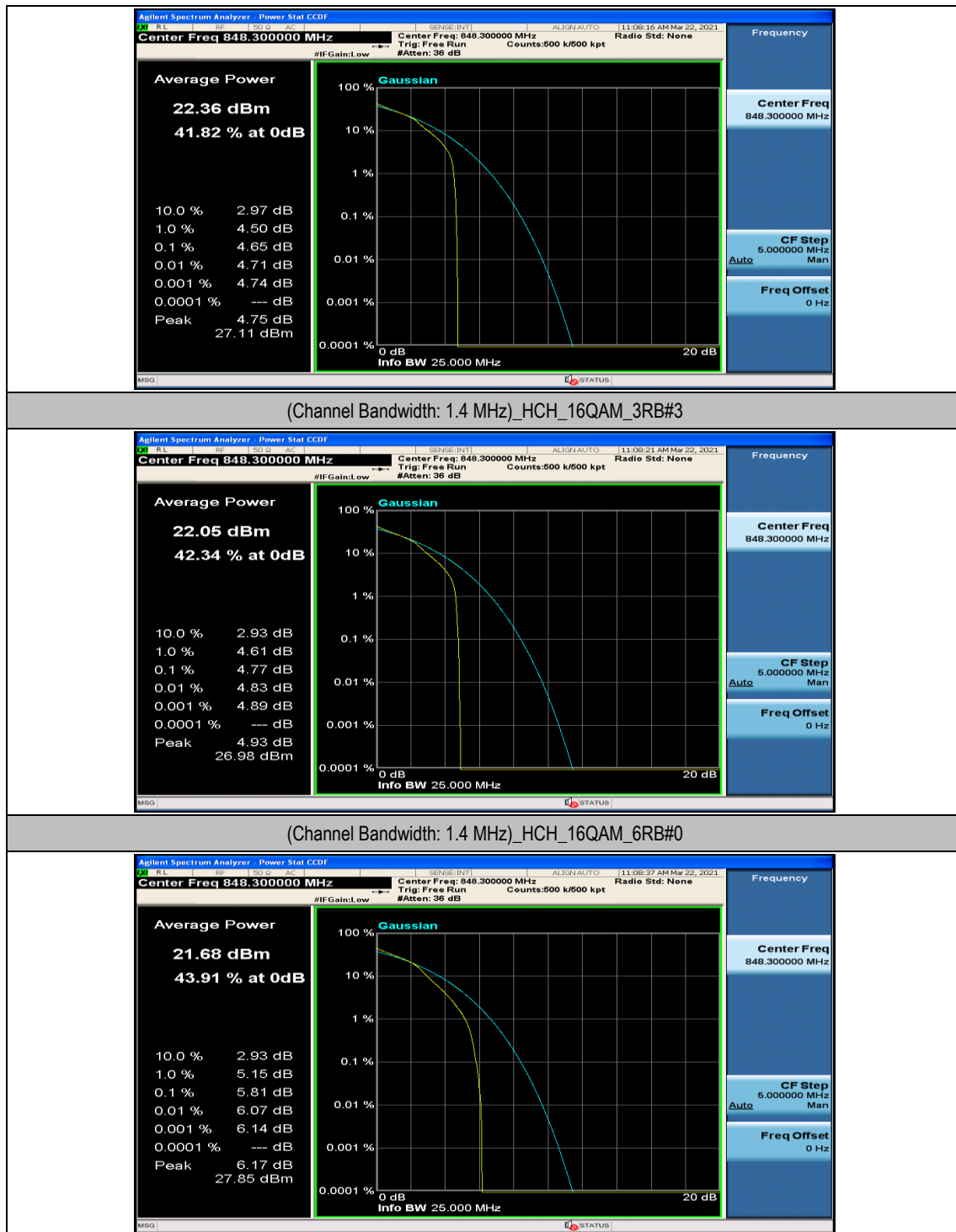
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#5



(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_3RB#0

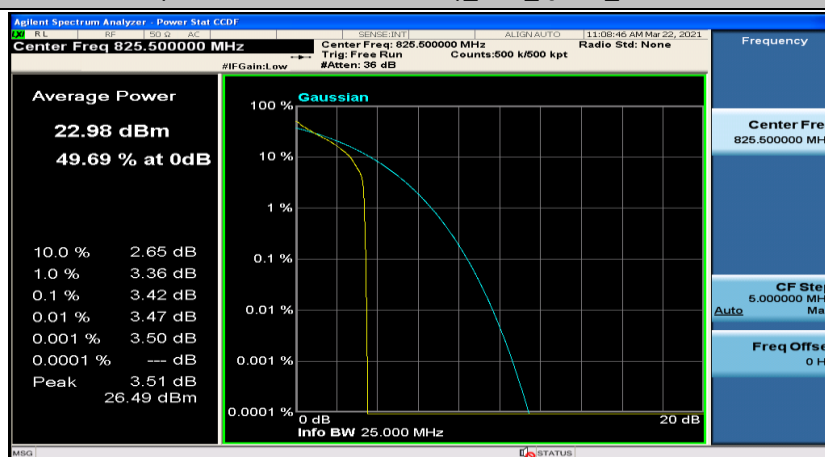


(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_3RB#2

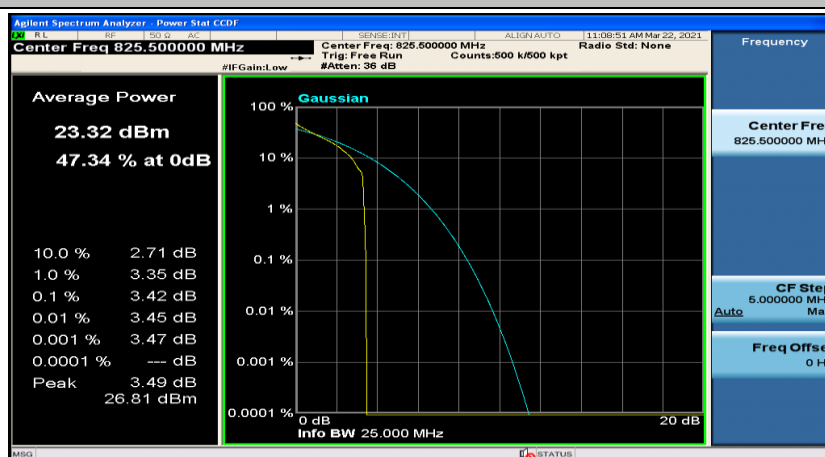


Channel Bandwidth: 3 MHz

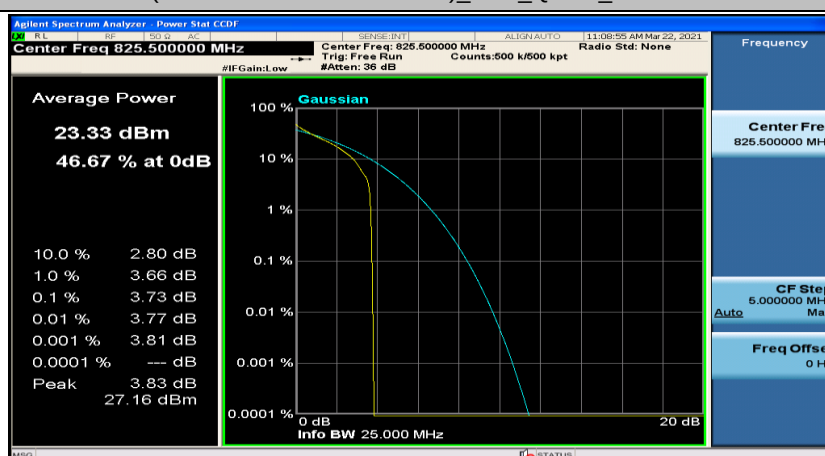
(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#0



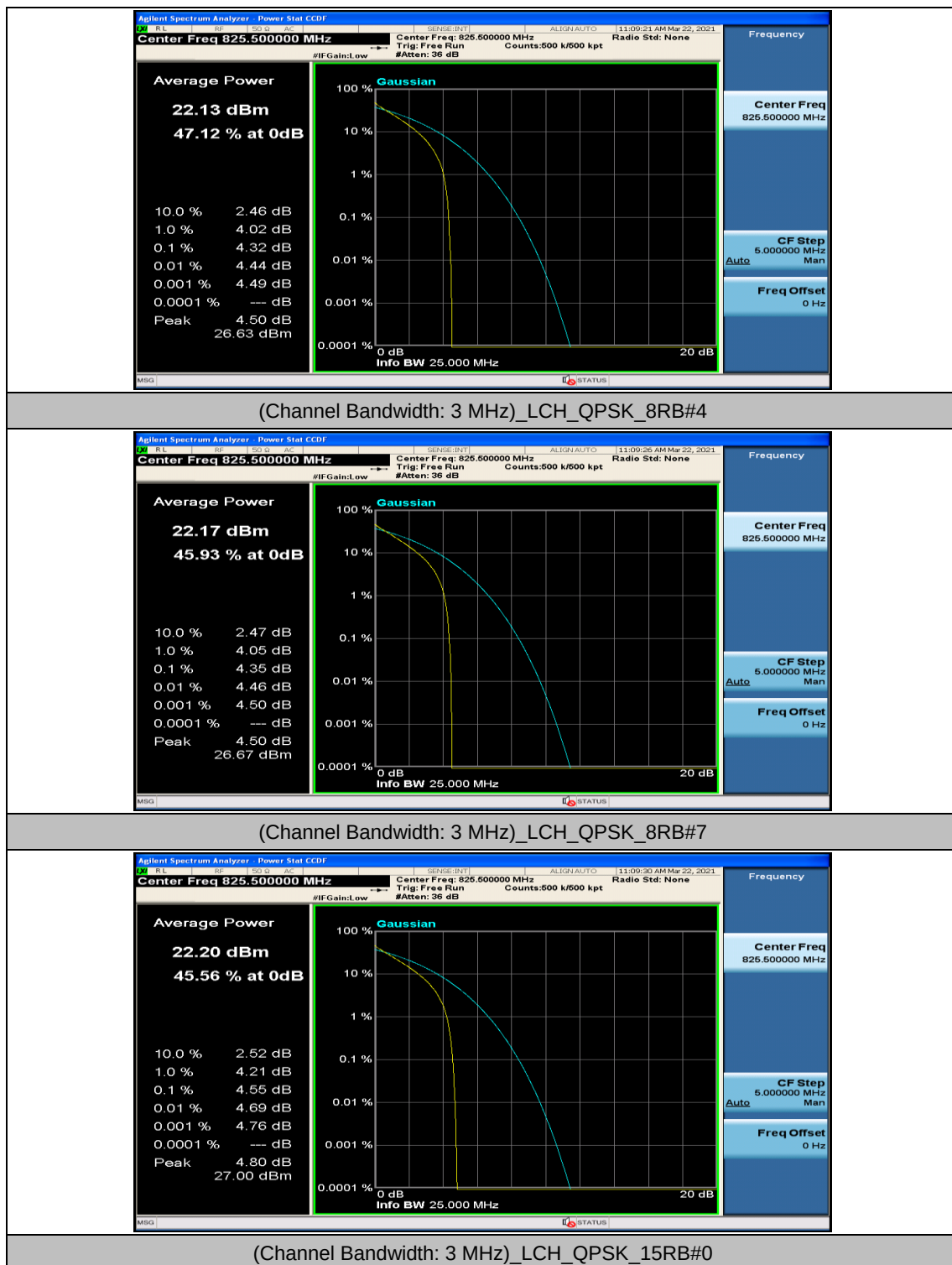
(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#7

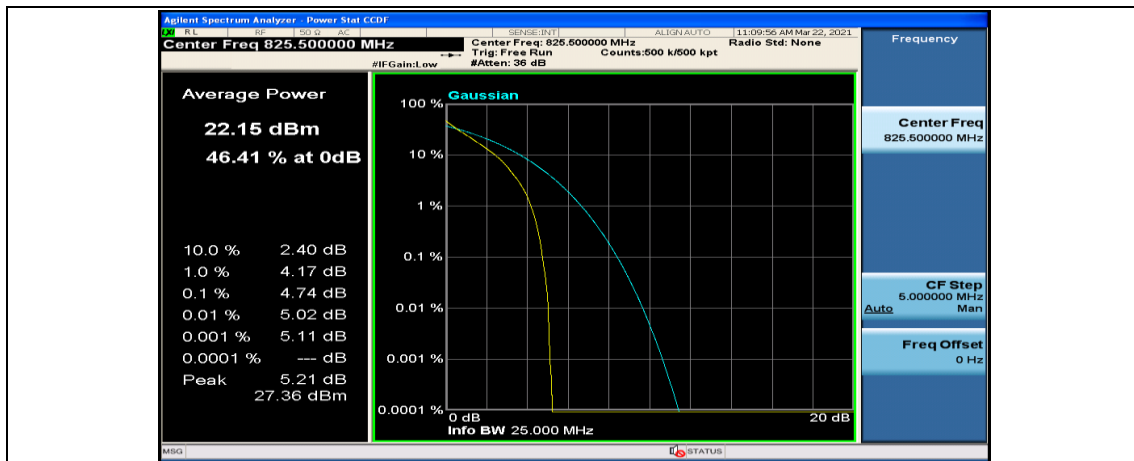


(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#14

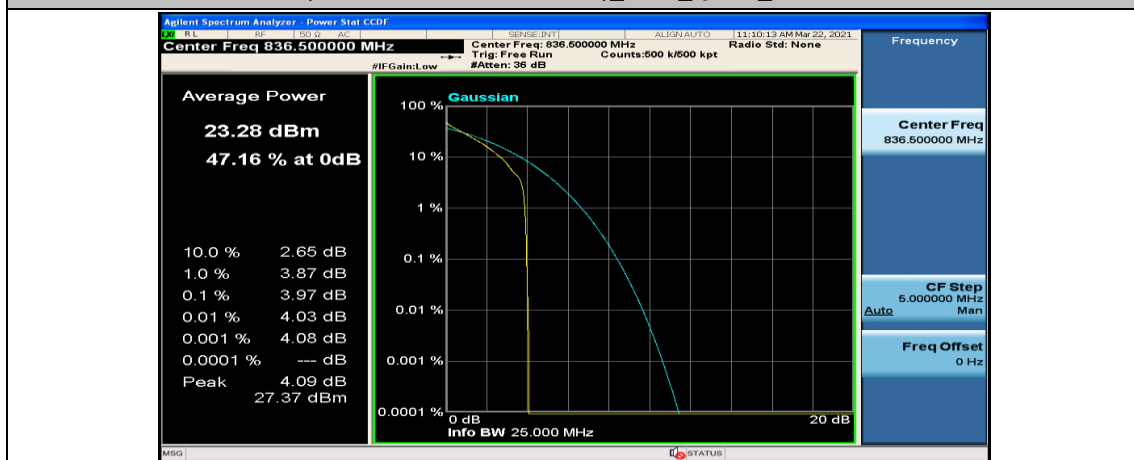


(Channel Bandwidth: 3 MHz)_LCH_QPSK_8RB#0

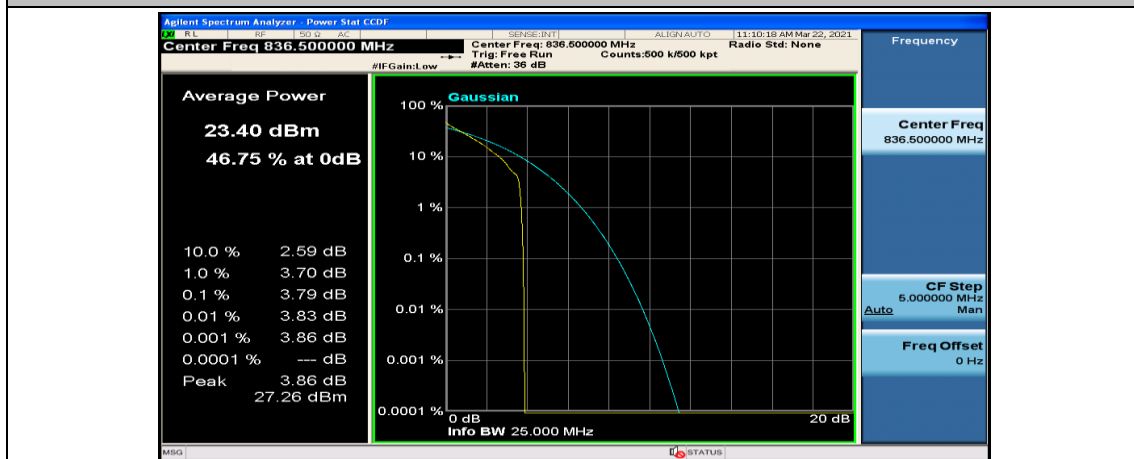




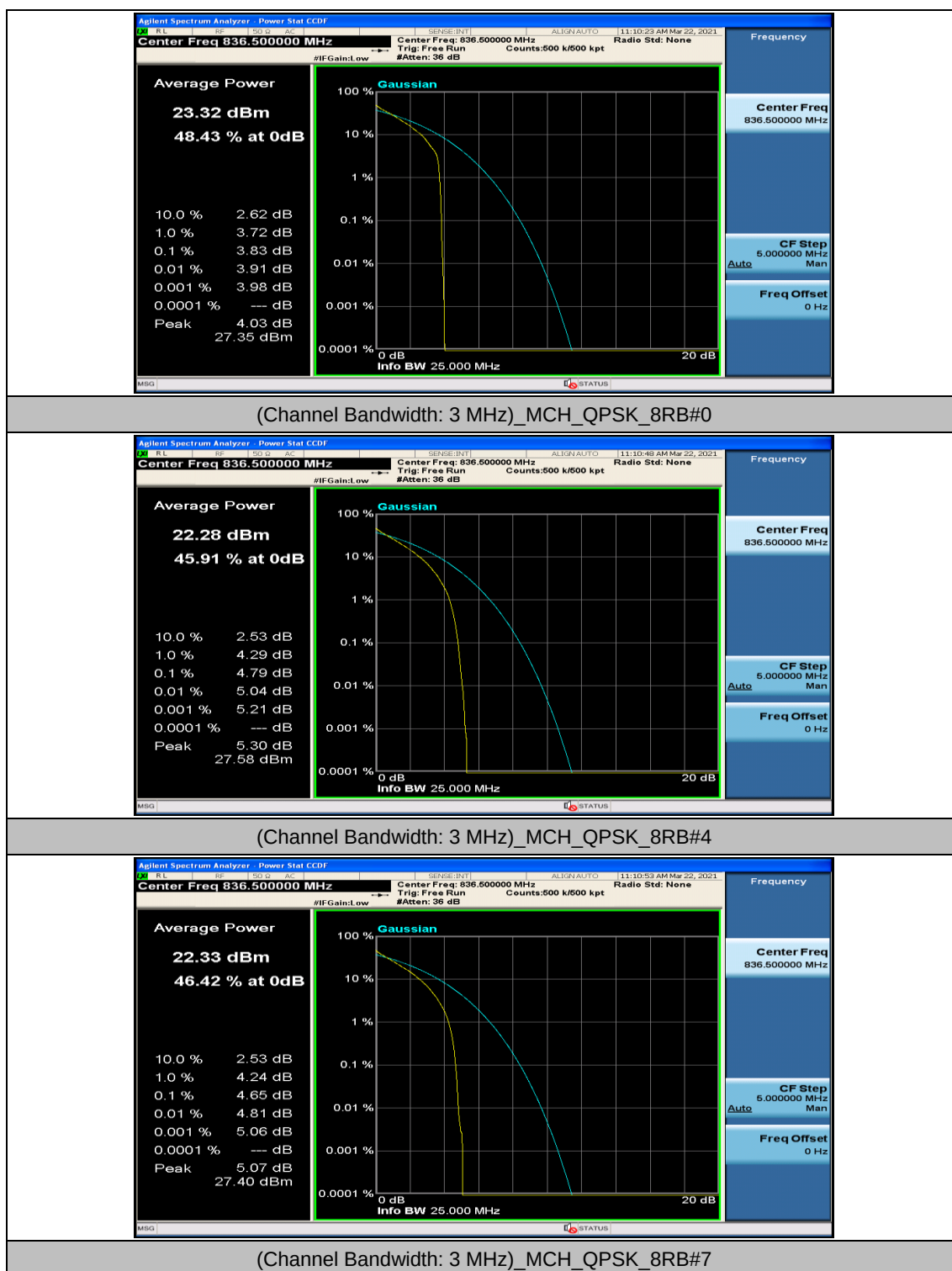
(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#0

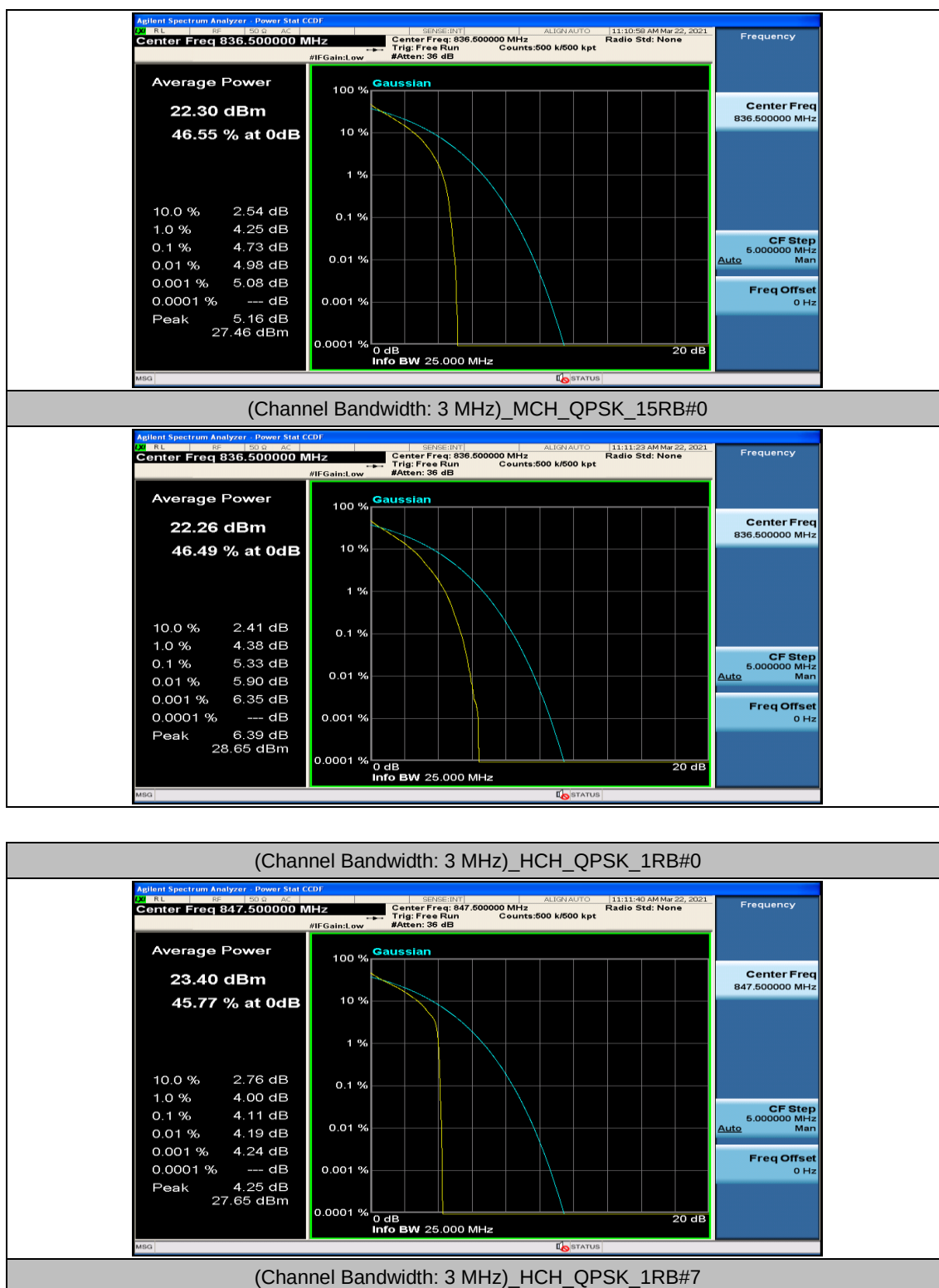


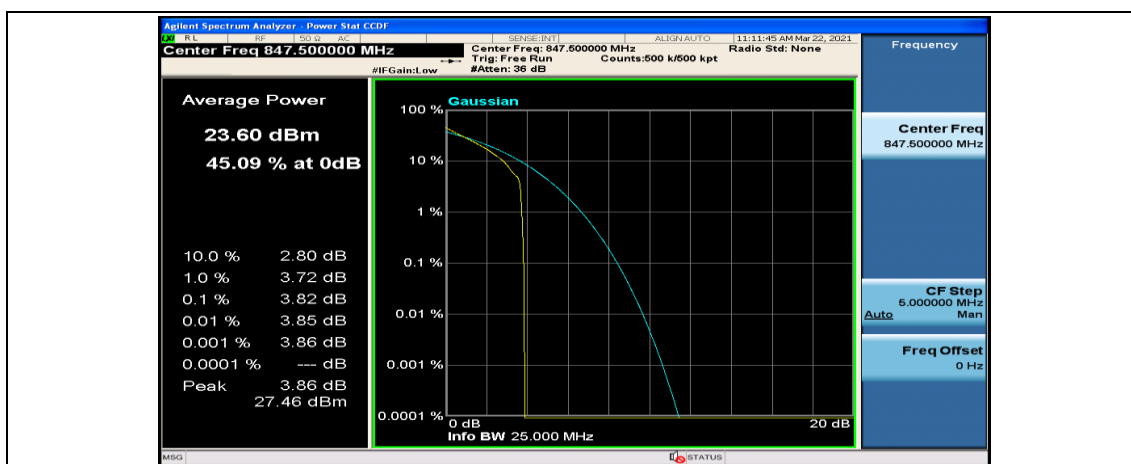
(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#7



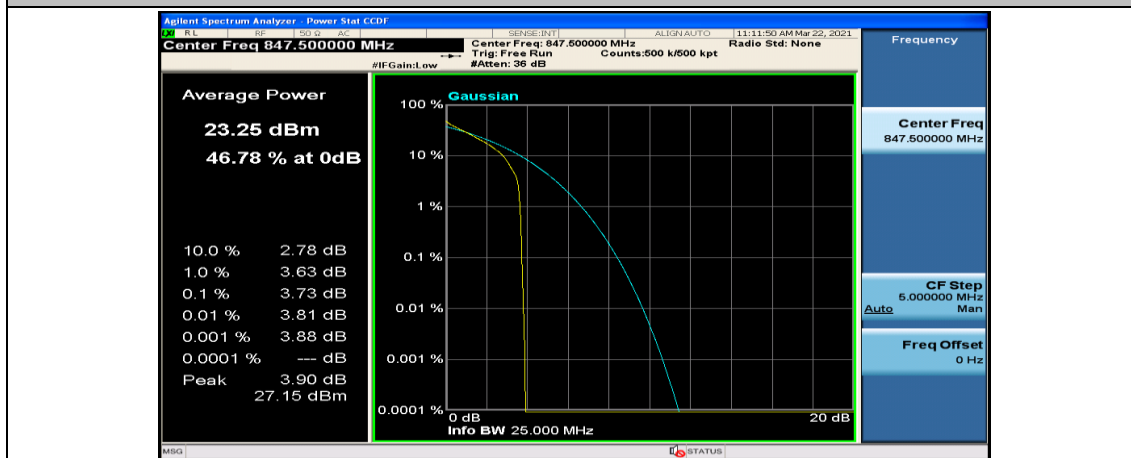
(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#14



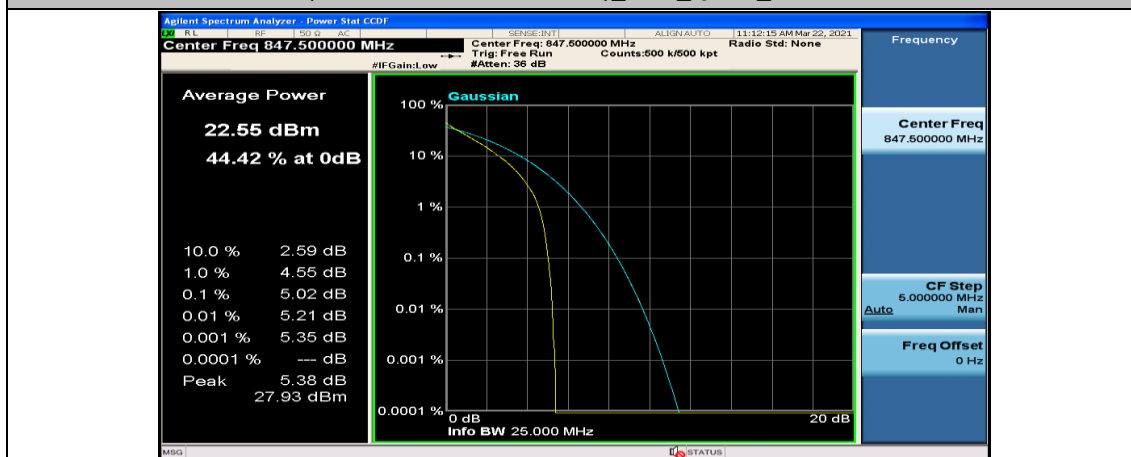




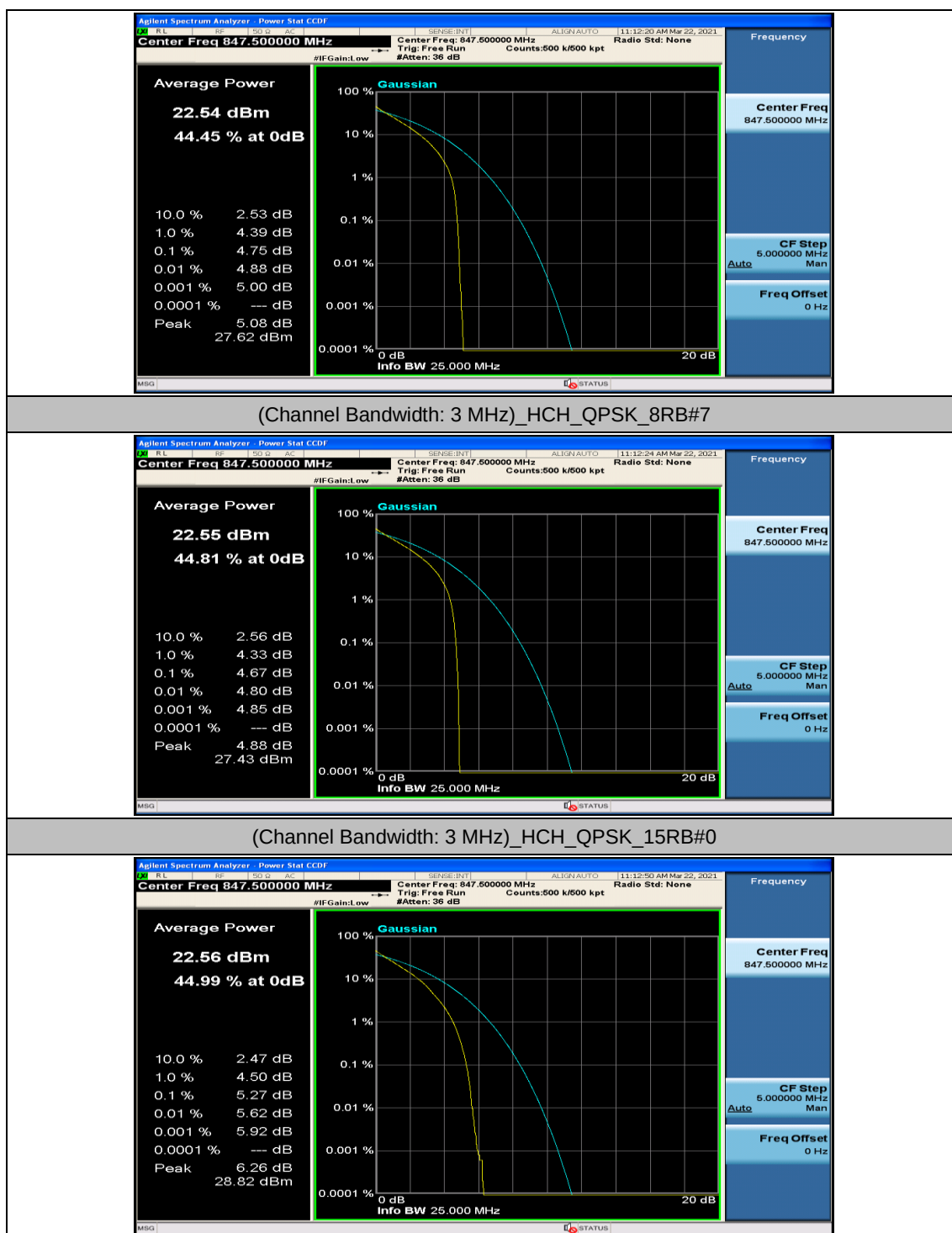
(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#14



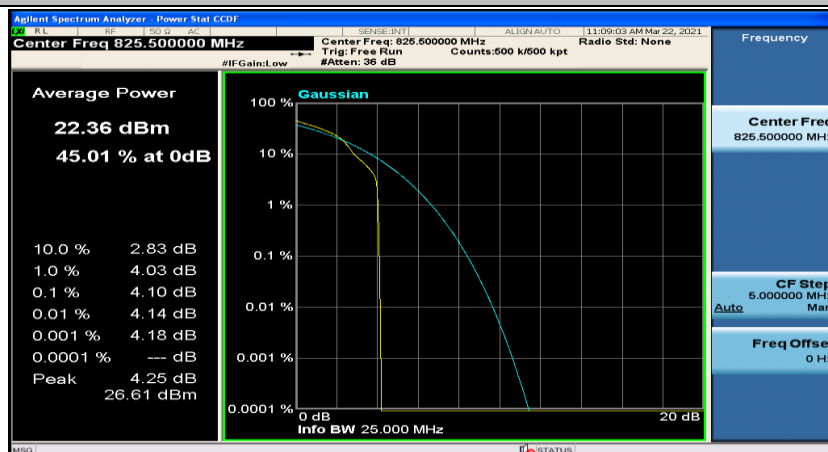
(Channel Bandwidth: 3 MHz)_HCH_QPSK_8RB#0



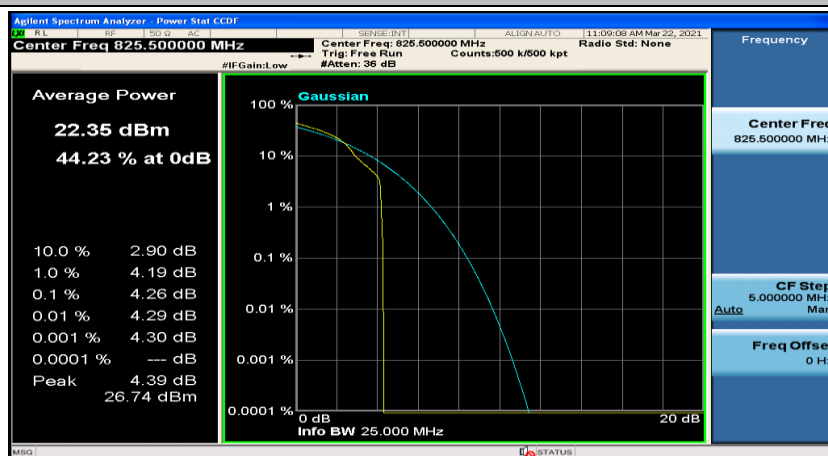
(Channel Bandwidth: 3 MHz)_HCH_QPSK_8RB#4



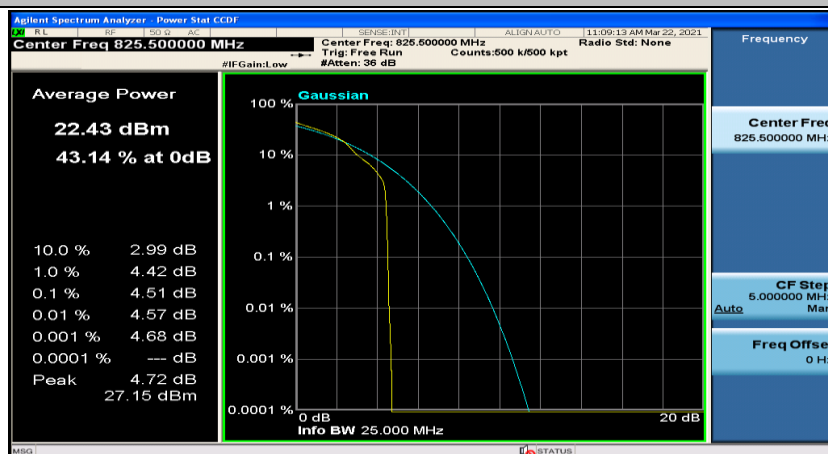
(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#0



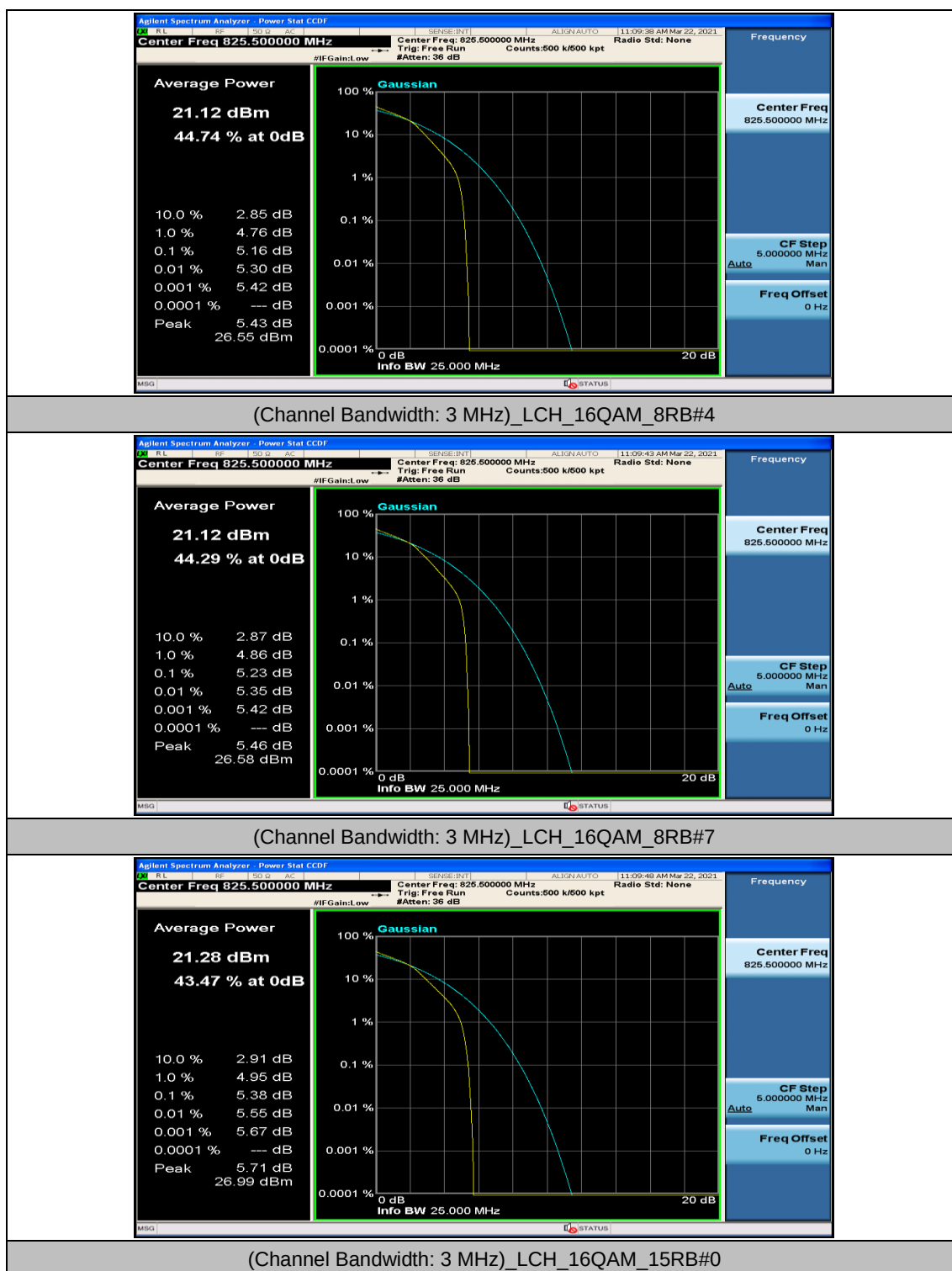
(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#7

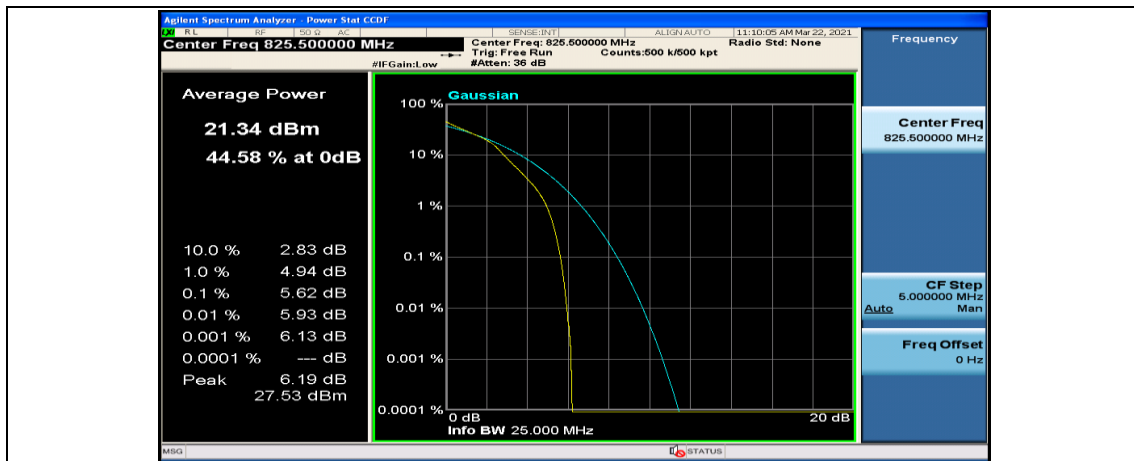


(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#14

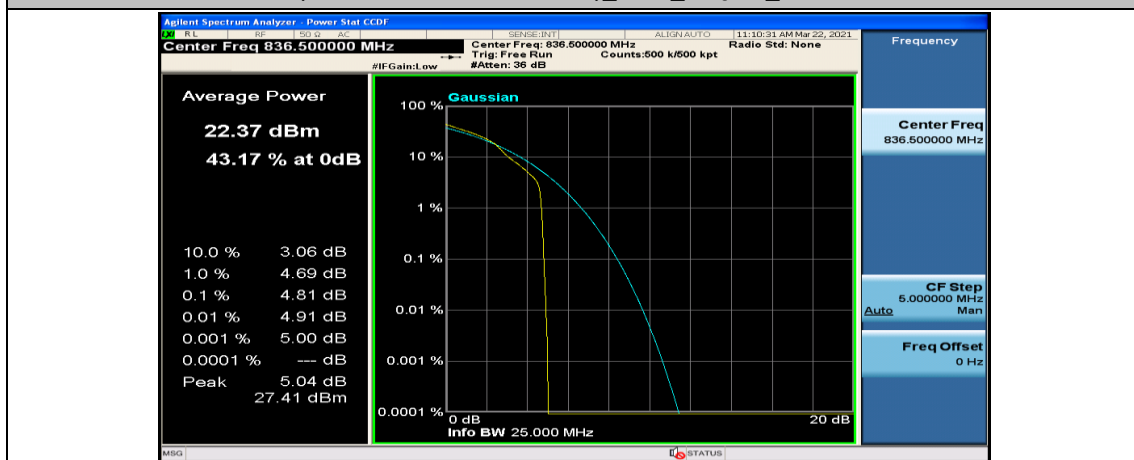


(Channel Bandwidth: 3 MHz)_LCH_16QAM_8RB#0

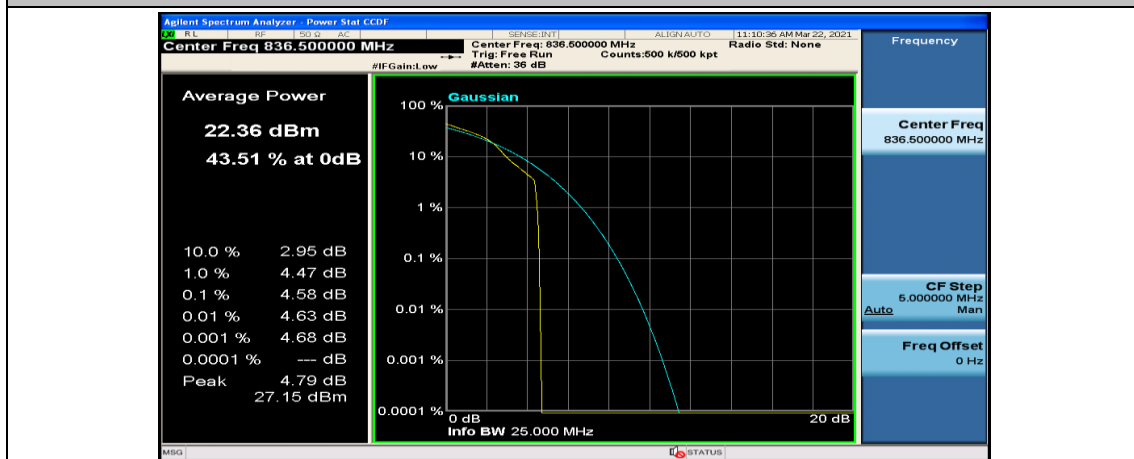




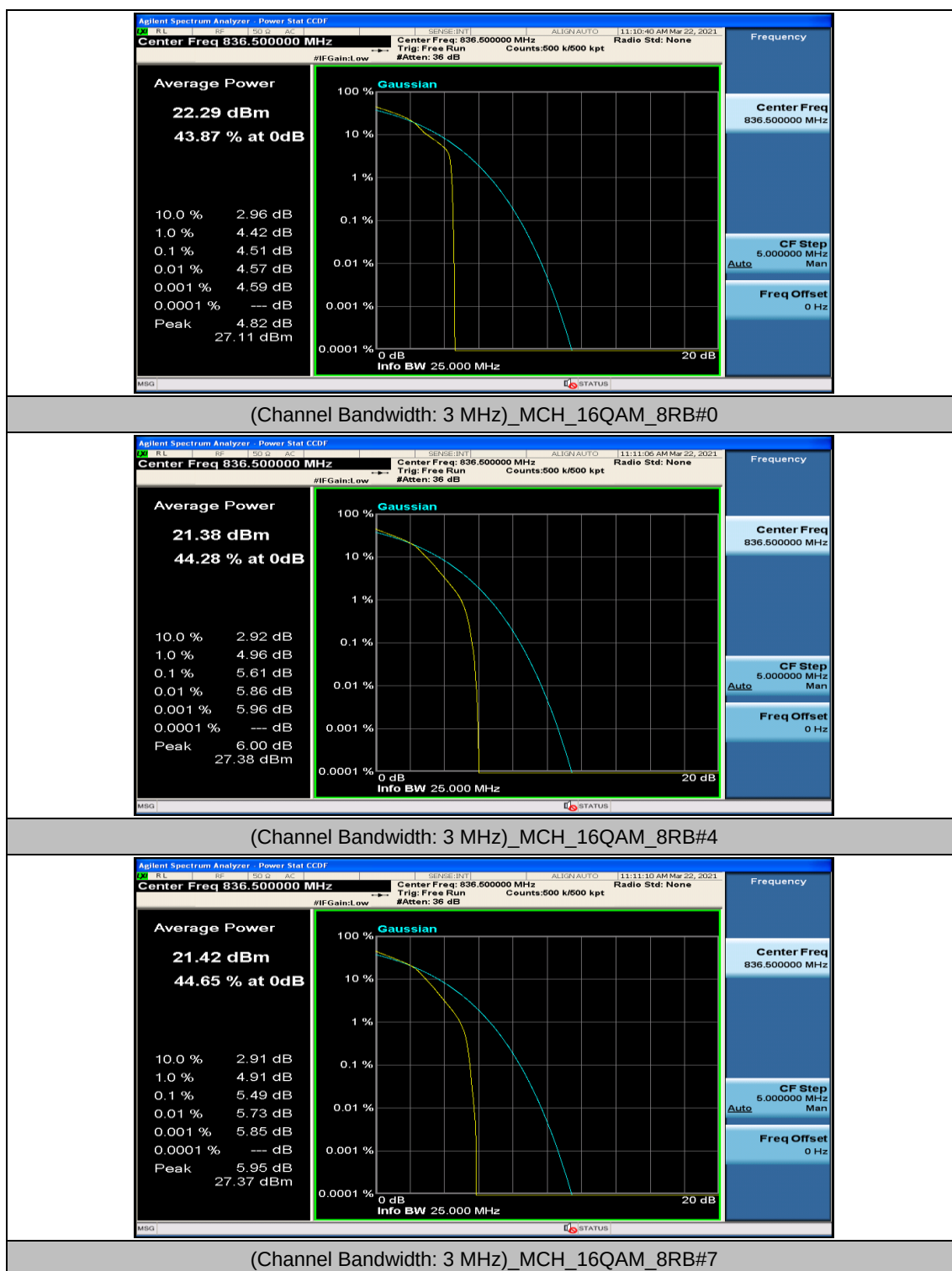
(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#0

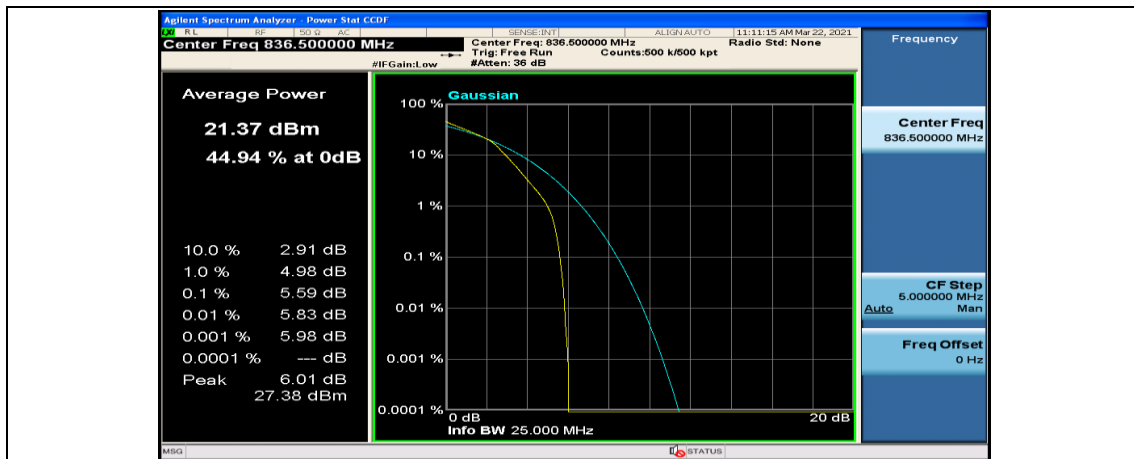


(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#7

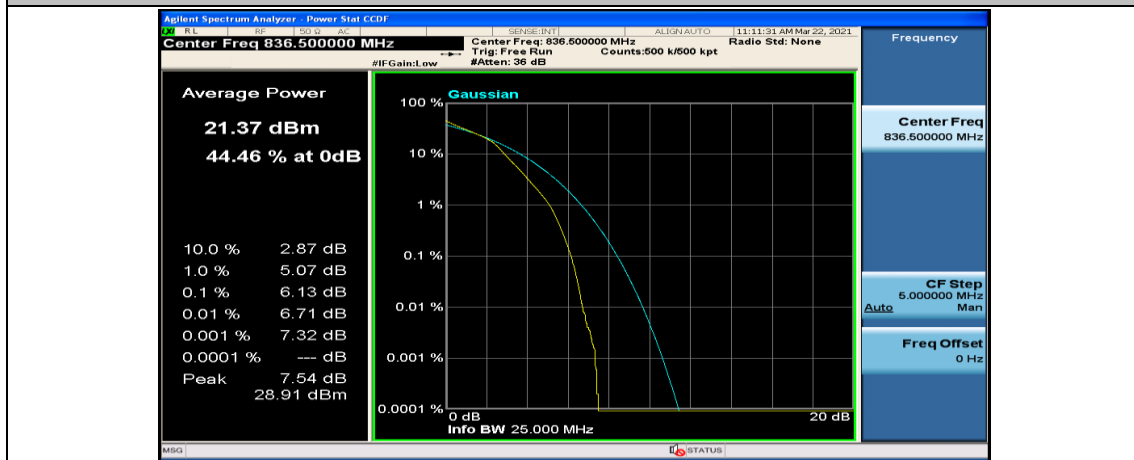


(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#14

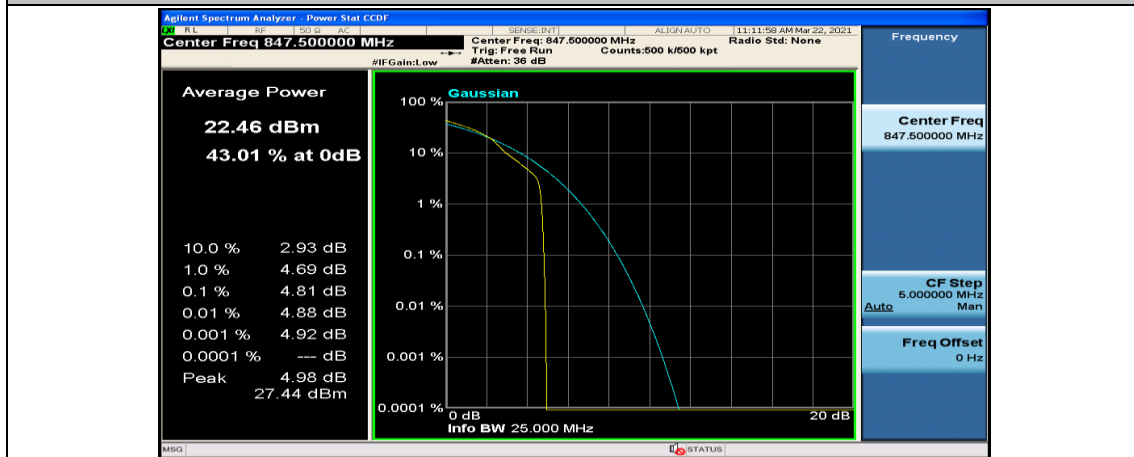




(Channel Bandwidth: 3 MHz)_MCH_16QAM_15RB#0



(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#0



(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#7

