

Appendix B.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	4.18	<13	PASS
		1	3	4.16	<13	PASS
		1	5	4.12	<13	PASS
		3	0	4.24	<13	PASS
		3	2	4.24	<13	PASS
		3	3	4.25	<13	PASS
		6	0	5.24	<13	PASS
	MCH	1	0	4.2	<13	PASS
		1	3	4.13	<13	PASS
		1	5	4.14	<13	PASS
		3	0	4.45	<13	PASS
		3	2	4.41	<13	PASS
		3	3	4.42	<13	PASS
		6	0	5.38	<13	PASS
	HCH	1	0	4.17	<13	PASS
		1	3	4.07	<13	PASS
		1	5	4.02	<13	PASS
		3	0	4.35	<13	PASS
		3	2	4.29	<13	PASS
		3	3	4.29	<13	PASS
		6	0	5.17	<13	PASS
16QAM	LCH	1	0	5.11	<13	PASS
		1	3	5.06	<13	PASS
		1	5	5.06	<13	PASS
		3	0	5.18	<13	PASS
		3	2	5.16	<13	PASS
		3	3	5.22	<13	PASS
		6	0	6.1	<13	PASS
	MCH	1	0	5.2	<13	PASS
		1	3	5.15	<13	PASS
		1	5	5.17	<13	PASS
		3	0	5.42	<13	PASS
		3	2	5.37	<13	PASS

		3	3	5.41	<13	PASS
		6	0	6.23	<13	PASS
	HCH	1	0	5.17	<13	PASS
		1	3	5.08	<13	PASS
		1	5	5.08	<13	PASS
		3	0	5.09	<13	PASS
		3	2	5.06	<13	PASS
		3	3	5.08	<13	PASS
		6	0	6.05	<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	4.15	<13	PASS
		1	7	4.12	<13	PASS
		1	14	4.14	<13	PASS
		8	0	5.03	<13	PASS
		8	4	5.03	<13	PASS
		8	7	5.08	<13	PASS
		15	0	5.36	<13	PASS
	MCH	1	0	4.25	<13	PASS
		1	7	4.26	<13	PASS
		1	14	4.24	<13	PASS
		8	0	5.29	<13	PASS
		8	4	5.34	<13	PASS
		8	7	5.34	<13	PASS
		15	0	5.51	<13	PASS
	HCH	1	0	4.13	<13	PASS
		1	7	4.08	<13	PASS
		1	14	4.01	<13	PASS
		8	0	5.14	<13	PASS
		8	4	5.11	<13	PASS
		8	7	5.14	<13	PASS
		15	0	5.47	<13	PASS
16QAM	LCH	1	0	5.08	<13	PASS
		1	7	5.04	<13	PASS
		1	14	5.1	<13	PASS
		8	0	5.82	<13	PASS
		8	4	5.77	<13	PASS
		8	7	5.79	<13	PASS

	MCH	15	0	6.22	<13	PASS
		1	0	5.07	<13	PASS
		1	7	5.17	<13	PASS
		1	14	5.26	<13	PASS
		8	0	6	<13	PASS
		8	4	6.04	<13	PASS
		8	7	6.02	<13	PASS
		15	0	6.35	<13	PASS
	HCH	1	0	5.1	<13	PASS
		1	7	5.08	<13	PASS
		1	14	5.03	<13	PASS
		8	0	5.89	<13	PASS
		8	4	5.82	<13	PASS
		8	7	5.89	<13	PASS
		15	0	6.13	<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	3.97	<13	PASS
		1	12	4.02	<13	PASS
		1	24	3.96	<13	PASS
		12	0	5.1	<13	PASS
		12	6	5.01	<13	PASS
		12	13	5.12	<13	PASS
		25	0	5.33	<13	PASS
	MCH	1	0	4.07	<13	PASS
		1	12	4.1	<13	PASS
		1	24	4.17	<13	PASS
		12	0	5.28	<13	PASS
		12	6	5.27	<13	PASS
		12	13	5.35	<13	PASS
		25	0	5.58	<13	PASS
	HCH	1	0	4.3	<13	PASS
		1	12	4.25	<13	PASS
		1	24	4.03	<13	PASS
		12	0	5.2	<13	PASS
		12	6	5.1	<13	PASS
		12	13	5.18	<13	PASS
		25	0	5.45	<13	PASS

16QAM	LCH	1	0	4.89	<13	PASS
		1	12	4.95	<13	PASS
		1	24	4.94	<13	PASS
		12	0	5.84	<13	PASS
		12	6	5.83	<13	PASS
		12	13	5.86	<13	PASS
		25	0	6.1	<13	PASS
	MCH	1	0	5.07	<13	PASS
		1	12	5.04	<13	PASS
		1	24	5.22	<13	PASS
		12	0	6.1	<13	PASS
		12	6	6.09	<13	PASS
		12	13	6.1	<13	PASS
		25	0	6.32	<13	PASS
	HCH	1	0	4.87	<13	PASS
		1	12	4.95	<13	PASS
		1	24	4.72	<13	PASS
		12	0	6.09	<13	PASS
		12	6	6.07	<13	PASS
		12	13	6.12	<13	PASS
		25	0	6.18	<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	4.05	<13	PASS
		1	24	3.99	<13	PASS
		1	49	4.06	<13	PASS
		25	0	5.17	<13	PASS
		25	12	5.09	<13	PASS
		25	25	5.17	<13	PASS
		50	0	5.34	<13	PASS
	MCH	1	0	4.01	<13	PASS
		1	24	4.15	<13	PASS
		1	49	4.21	<13	PASS
		25	0	5.4	<13	PASS
		25	12	5.4	<13	PASS
		25	25	5.44	<13	PASS
		50	0	5.53	<13	PASS
	HCH	1	0	4.26	<13	PASS

		1	24	4.15	<13	PASS
		1	49	3.89	<13	PASS
		25	0	5.42	<13	PASS
		25	12	5.38	<13	PASS
		25	25	5.3	<13	PASS
		50	0	5.48	<13	PASS
16QAM	LCH	1	0	4.98	<13	PASS
		1	24	4.92	<13	PASS
		1	49	5	<13	PASS
		25	0	5.92	<13	PASS
		25	12	5.93	<13	PASS
		25	25	5.97	<13	PASS
		50	0	6.06	<13	PASS
	MCH	1	0	4.94	<13	PASS
		1	24	5.1	<13	PASS
		1	49	5.23	<13	PASS
		25	0	6.3	<13	PASS
		25	12	6.23	<13	PASS
		25	25	6.26	<13	PASS
		50	0	6.24	<13	PASS
	HCH	1	0	5.3	<13	PASS
		1	24	5.04	<13	PASS
		1	49	4.95	<13	PASS
		25	0	6.22	<13	PASS
		25	12	6.12	<13	PASS
		25	25	6.12	<13	PASS
		50	0	6.26	<13	PASS

Channel Bandwidth: 15 MHz

Channel Bandwidth: 15 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	LCH	1	0	9.33	<13	PASS
		1	37	4.11	<13	PASS
		1	74	9.27	<13	PASS
		37	0	4.59	<13	PASS
		37	18	5.2	<13	PASS
		37	38	4.69	<13	PASS
		75	0	4.94	<13	PASS
	MCH	1	0	9.07	<13	PASS
		1	37	4.09	<13	PASS

		1	74	9.01	<13	PASS
		37	0	4.71	<13	PASS
		37	18	5.46	<13	PASS
		37	38	4.79	<13	PASS
		75	0	4.96	<13	PASS
	HCH	1	0	8.99	<13	PASS
		1	37	4.42	<13	PASS
		1	74	9.48	<13	PASS
		37	0	4.74	<13	PASS
		37	18	5.42	<13	PASS
		37	38	4.69	<13	PASS
		75	0	4.89	<13	PASS
16QAM	LCH	1	0	9.28	<13	PASS
		1	37	4.97	<13	PASS
		1	74	10.04	<13	PASS
		37	0	5.82	<13	PASS
		37	18	5.95	<13	PASS
		37	38	5.89	<13	PASS
		75	0	6.14	<13	PASS
	MCH	1	0	9.06	<13	PASS
		1	37	5.07	<13	PASS
		1	74	9.61	<13	PASS
		37	0	5.96	<13	PASS
		37	18	6.27	<13	PASS
		37	38	6.06	<13	PASS
		75	0	6.25	<13	PASS
	HCH	1	0	8.9	<13	PASS
		1	37	5.3	<13	PASS
		1	74	10.12	<13	PASS
		37	0	5.99	<13	PASS
		37	18	6.25	<13	PASS
		37	38	5.99	<13	PASS
		75	0	6.19	<13	PASS

Channel Bandwidth: 20 MHz

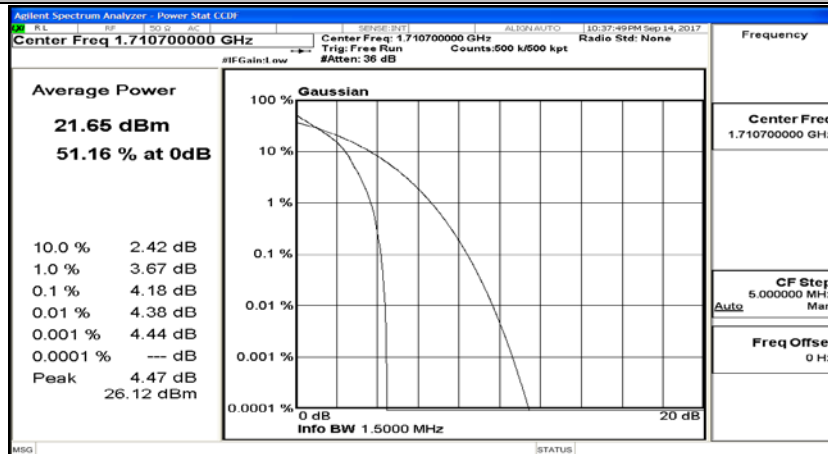
Channel Bandwidth: 20 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	LCH	1	0	9.98	<13	PASS
		1	49	3.93	<13	PASS
		1	99	9.96	<13	PASS

		50	0	5.46	<13	PASS
		50	25	5.38	<13	PASS
		50	50	5.65	<13	PASS
		100	0	5.71	<13	PASS
	MCH	1	0	9.16	<13	PASS
		1	49	4.02	<13	PASS
		1	99	9.14	<13	PASS
		50	0	5.53	<13	PASS
		50	25	5.53	<13	PASS
		50	50	5.76	<13	PASS
		100	0	5.7	<13	PASS
	HCH	1	0	10.95	<13	PASS
		1	49	4.34	<13	PASS
		1	99	11.31	<13	PASS
		50	0	5.54	<13	PASS
		50	25	5.57	<13	PASS
		50	50	5.82	<13	PASS
		100	0	5.69	<13	PASS
16QAM	LCH	1	0	10.12	<13	PASS
		1	49	4.87	<13	PASS
		1	99	10.21	<13	PASS
		50	0	6.5	<13	PASS
		50	25	6.1	<13	PASS
		50	50	6.56	<13	PASS
		100	0	6.74	<13	PASS
	MCH	1	0	9.44	<13	PASS
		1	49	4.96	<13	PASS
		1	99	9.29	<13	PASS
		50	0	6.57	<13	PASS
		50	25	6.34	<13	PASS
		50	50	6.61	<13	PASS
		100	0	6.76	<13	PASS
	HCH	1	0	11.05	<13	PASS
		1	49	5.19	<13	PASS
		1	99	11.1	<13	PASS
		50	0	6.59	<13	PASS
		50	25	6.29	<13	PASS
		50	50	6.66	<13	PASS
		100	0	6.68	<13	PASS

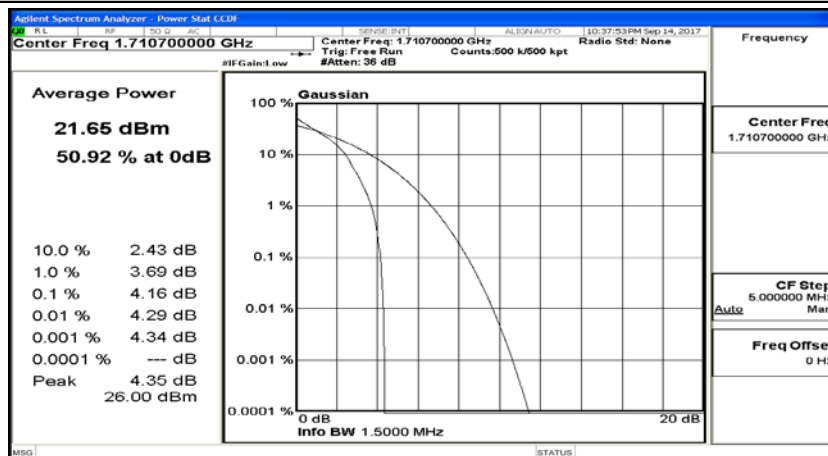
Test Graphs

Channel Bandwidth: 1.4 MHz

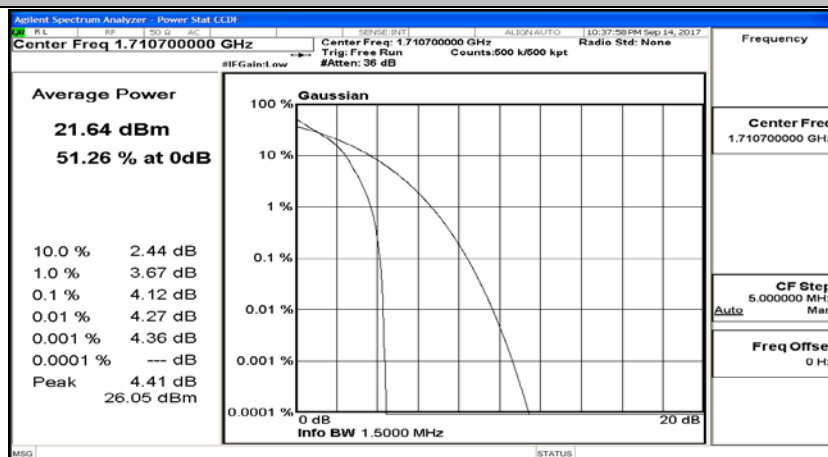
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#0



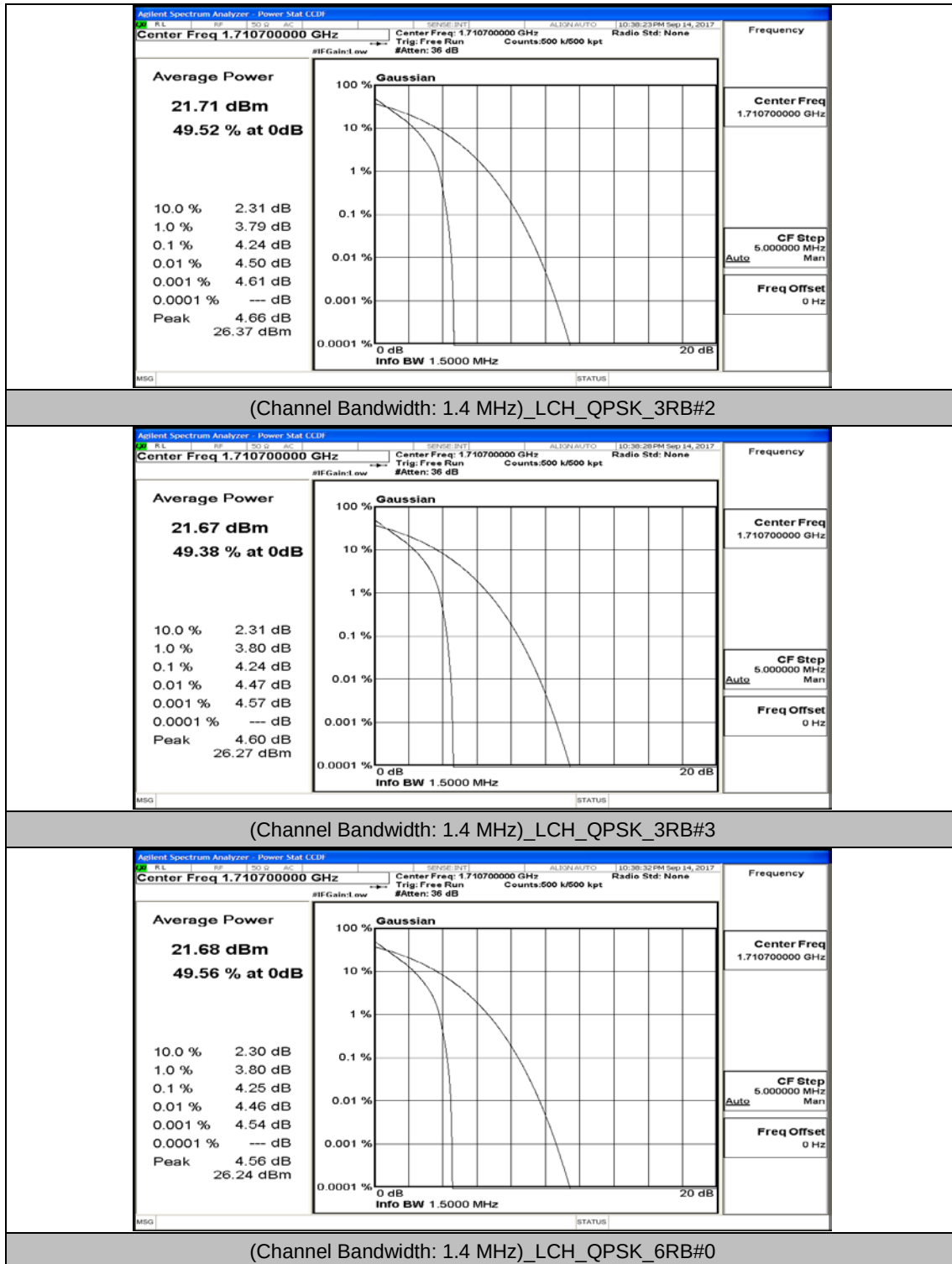
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#3

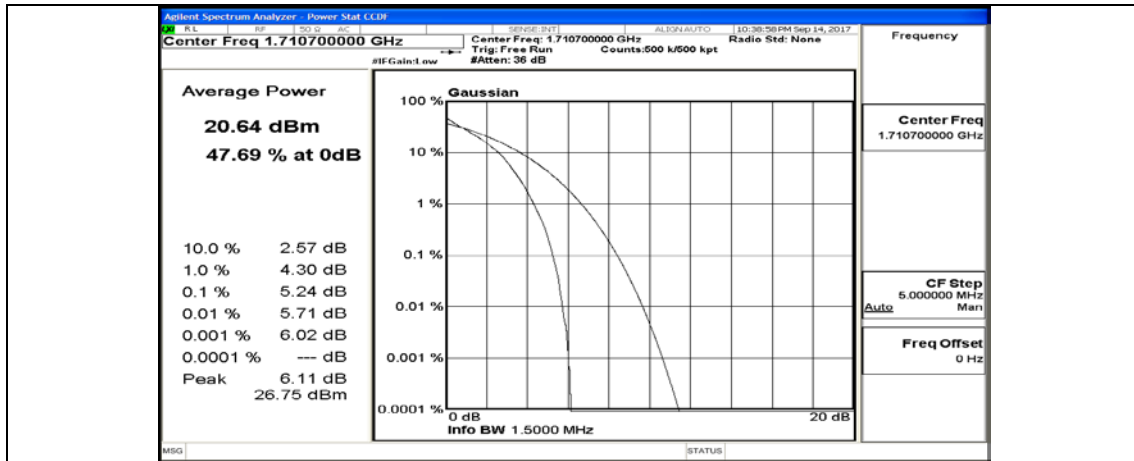


(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#5

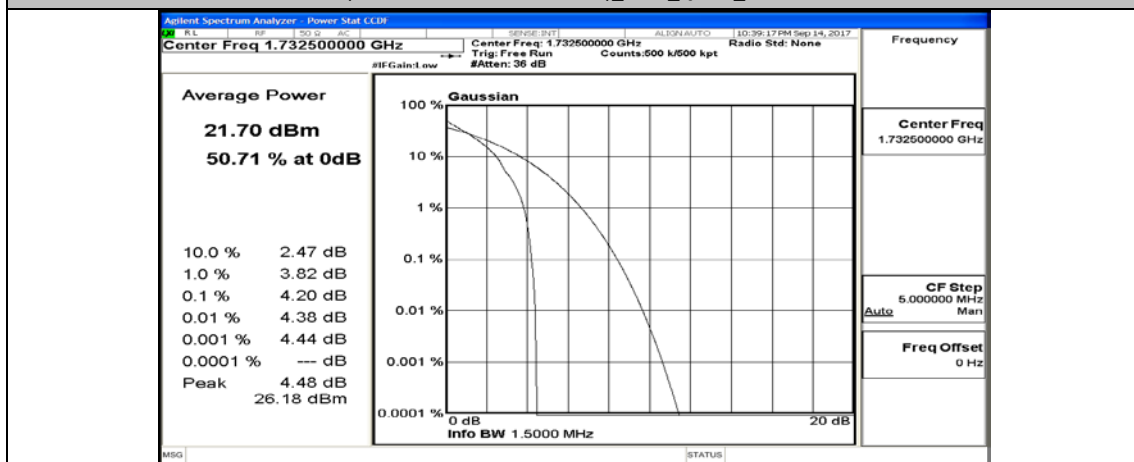


(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_3RB#0

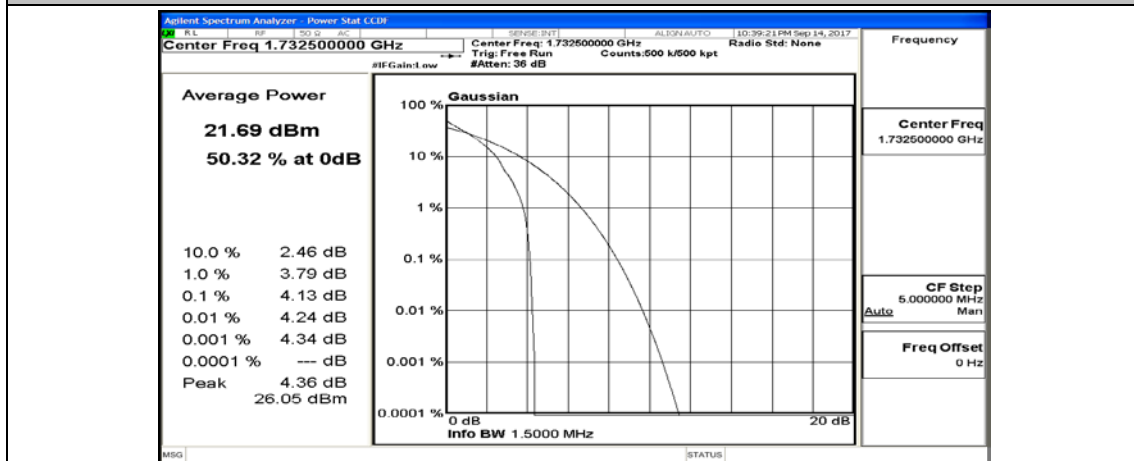




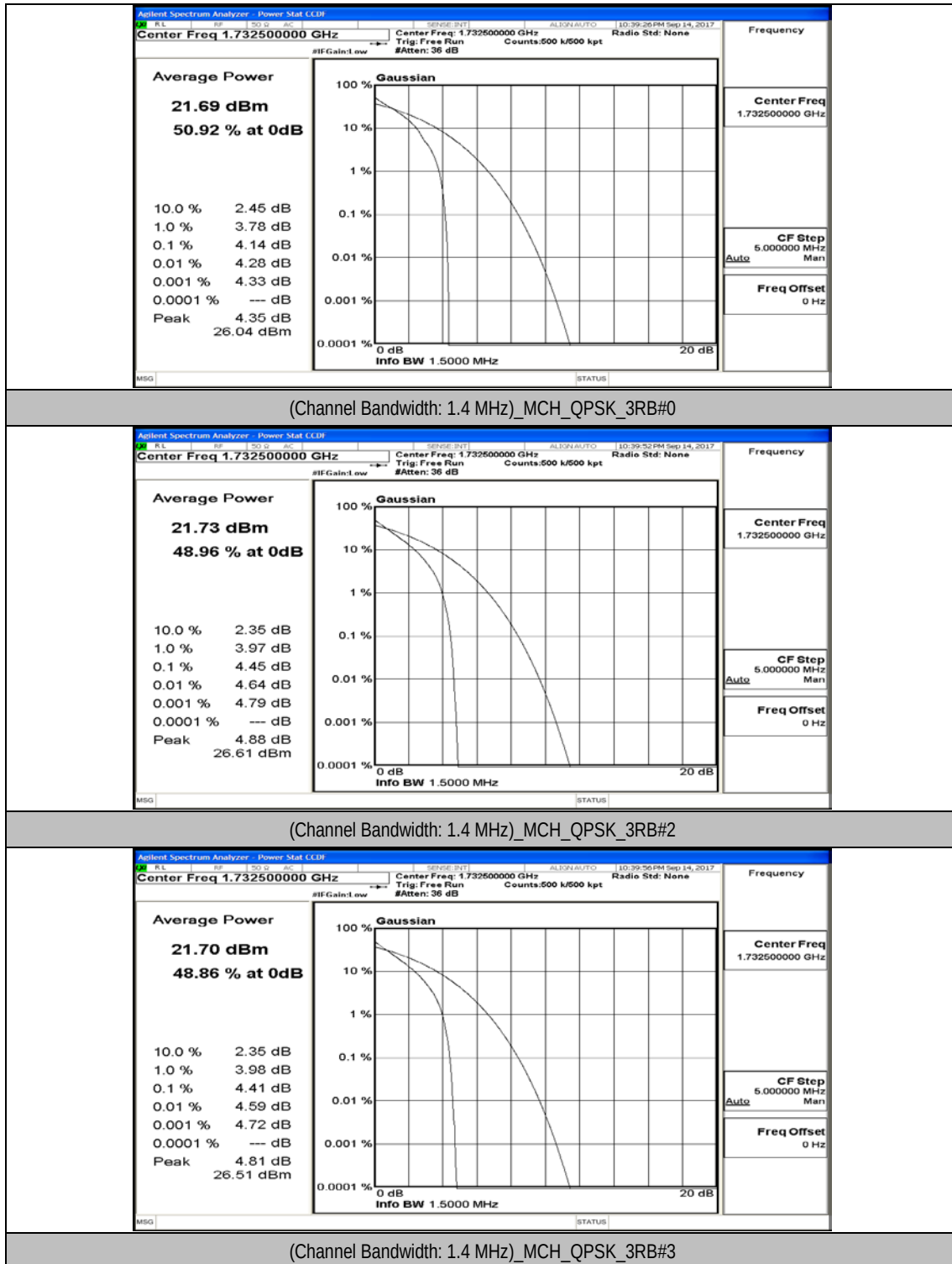
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#0

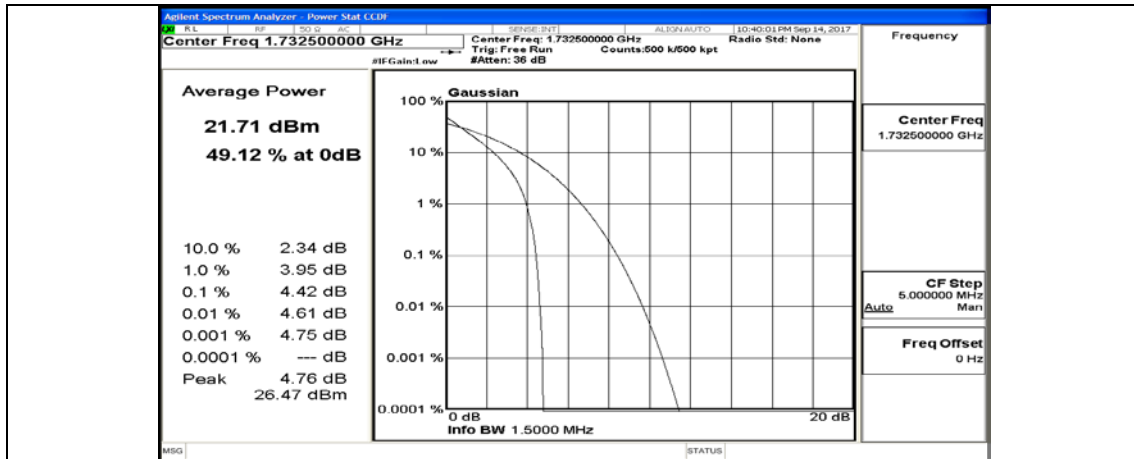


(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#3

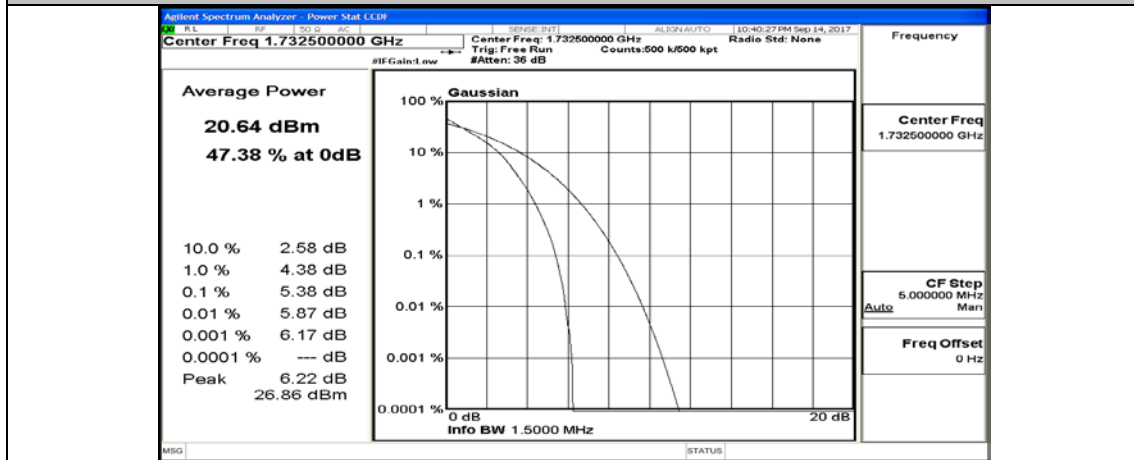


(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#5

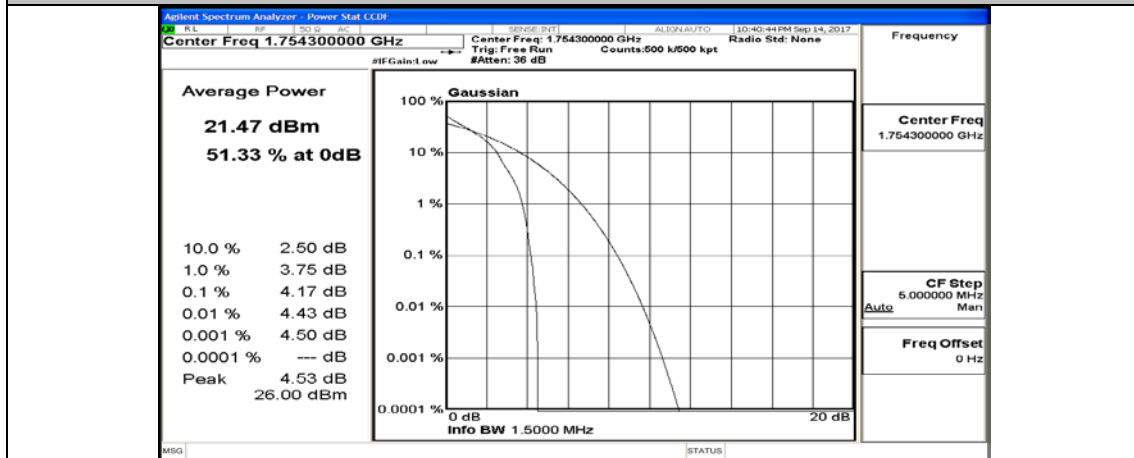




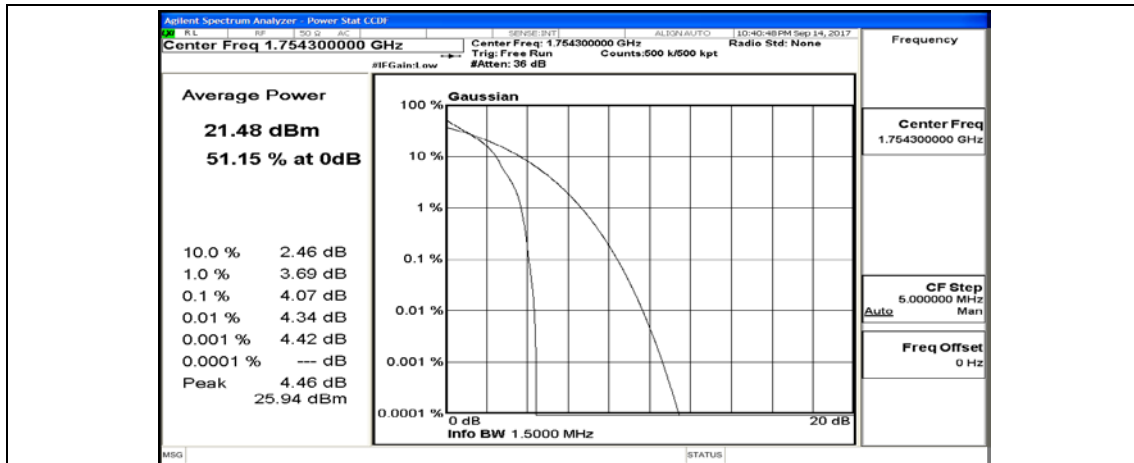
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_6RB#0



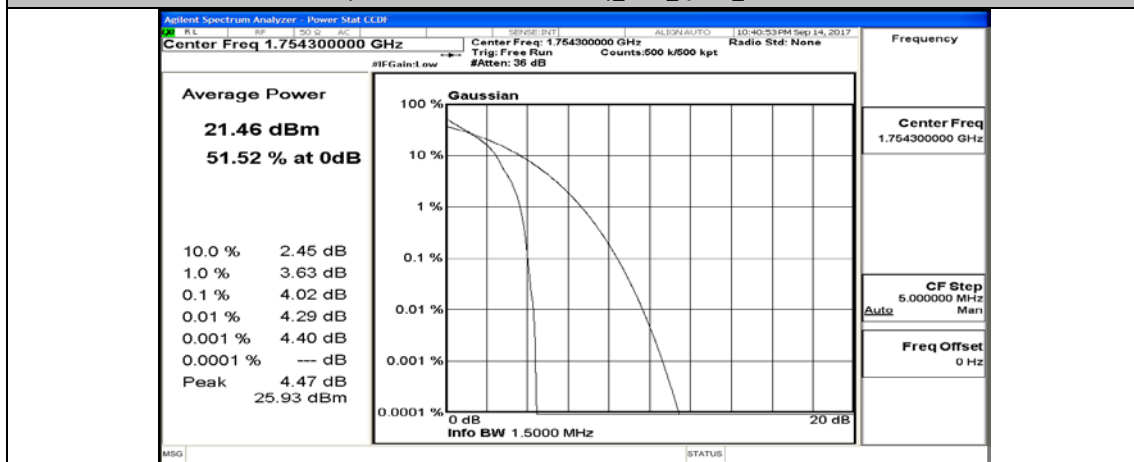
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#0



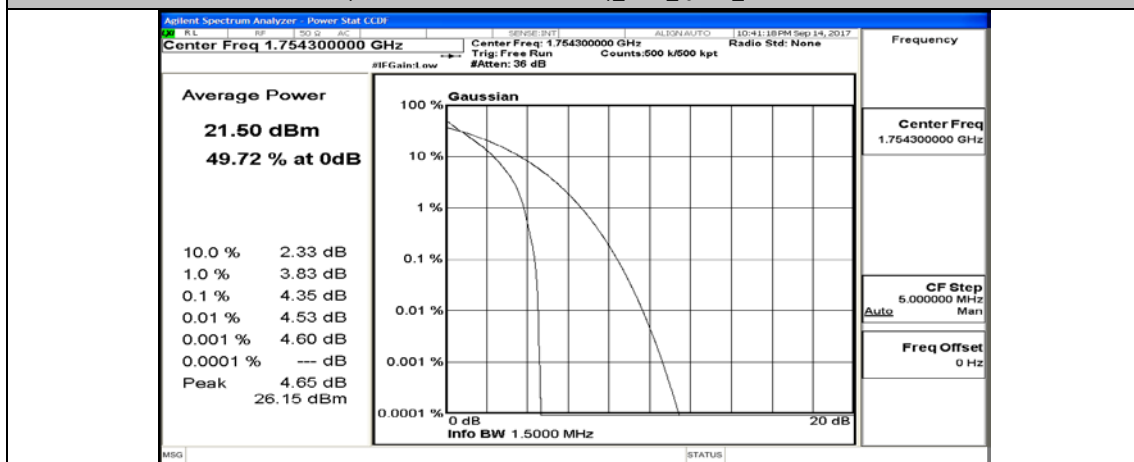
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#3



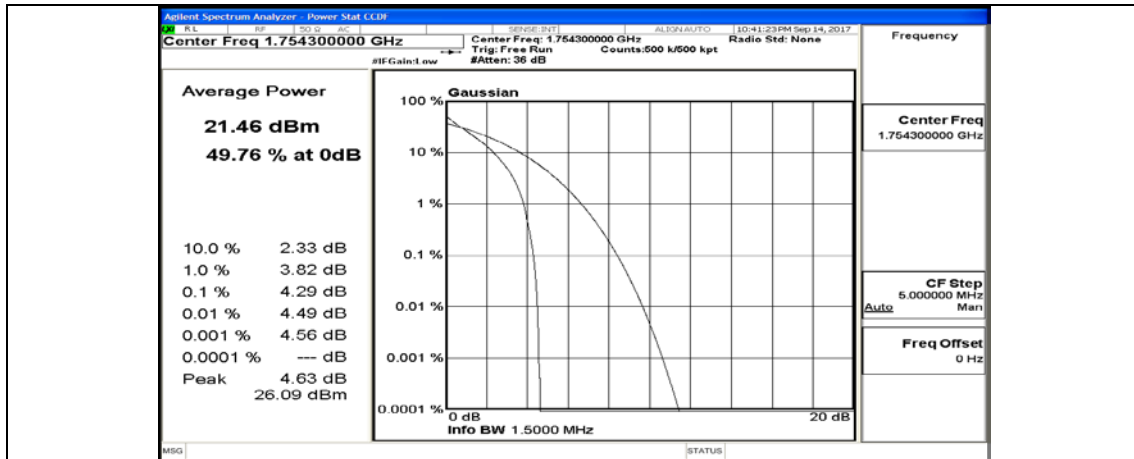
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#5



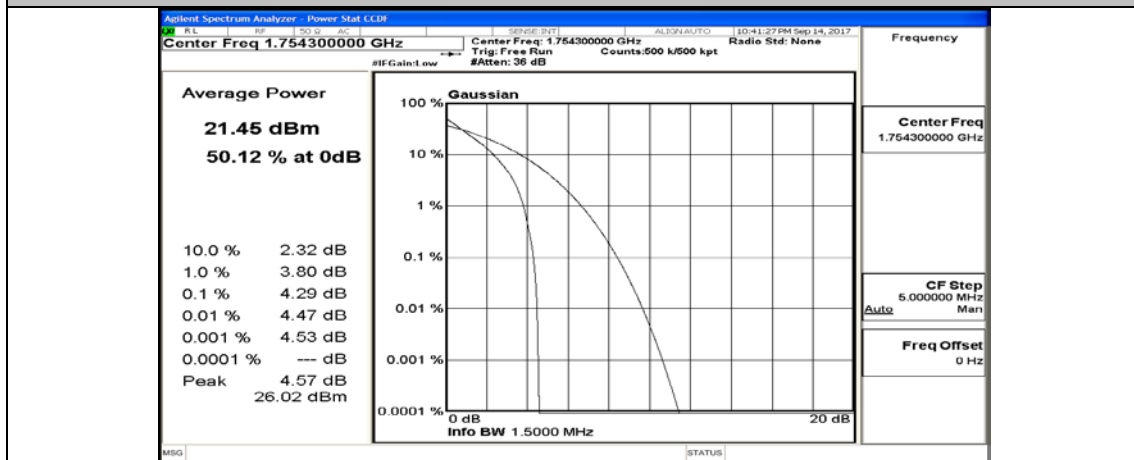
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_3RB#0



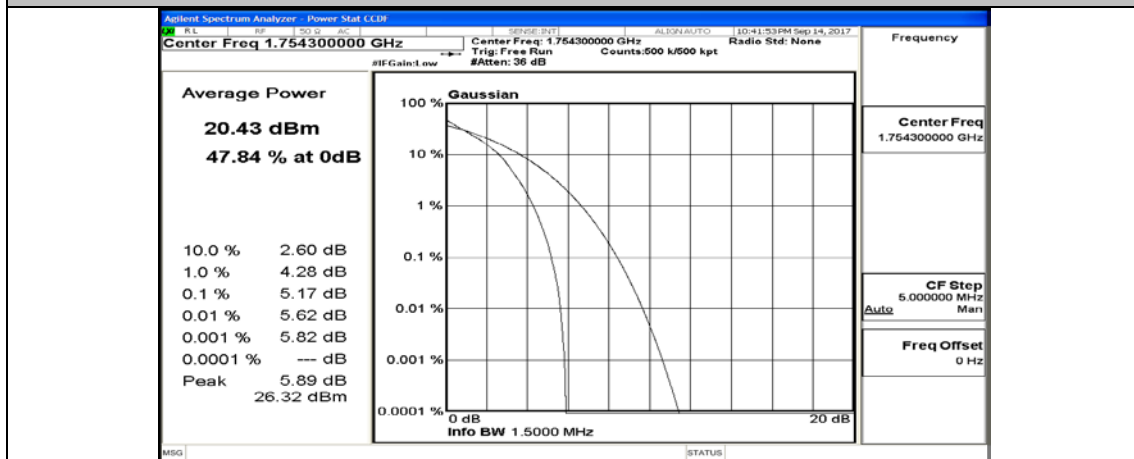
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_3RB#2



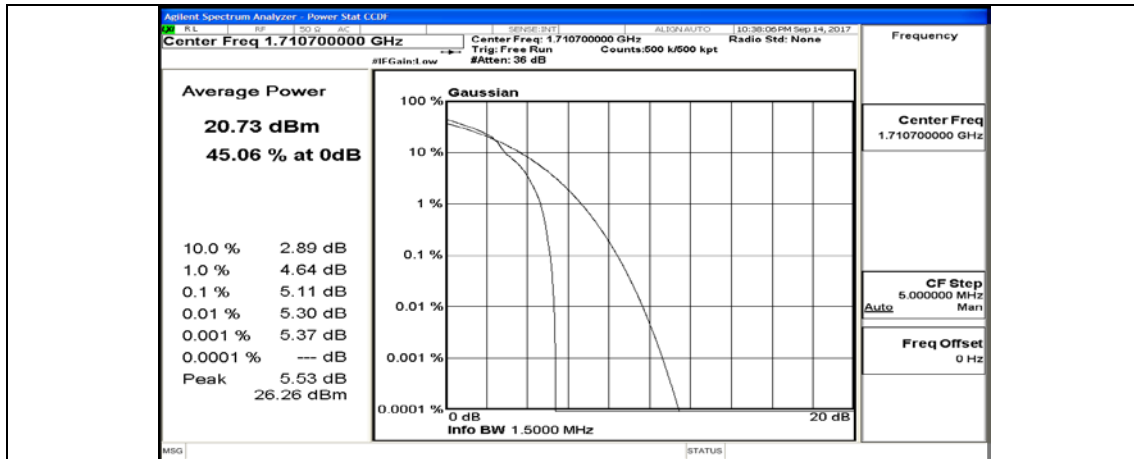
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_3RB#3



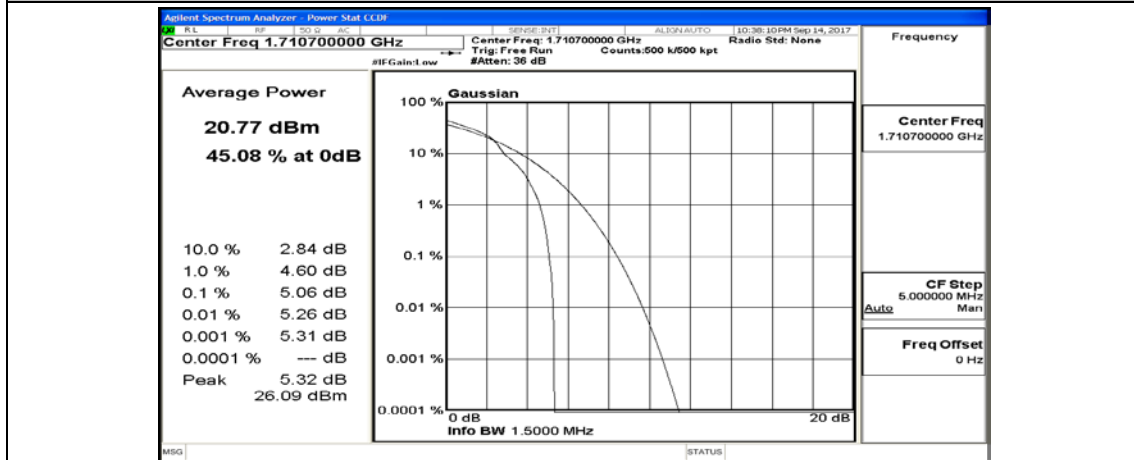
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_6RB#0



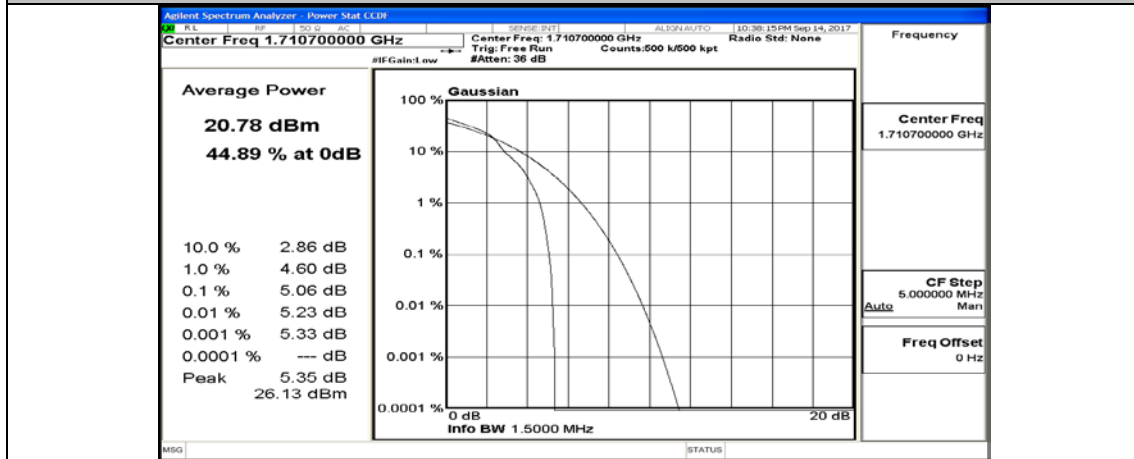
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#0



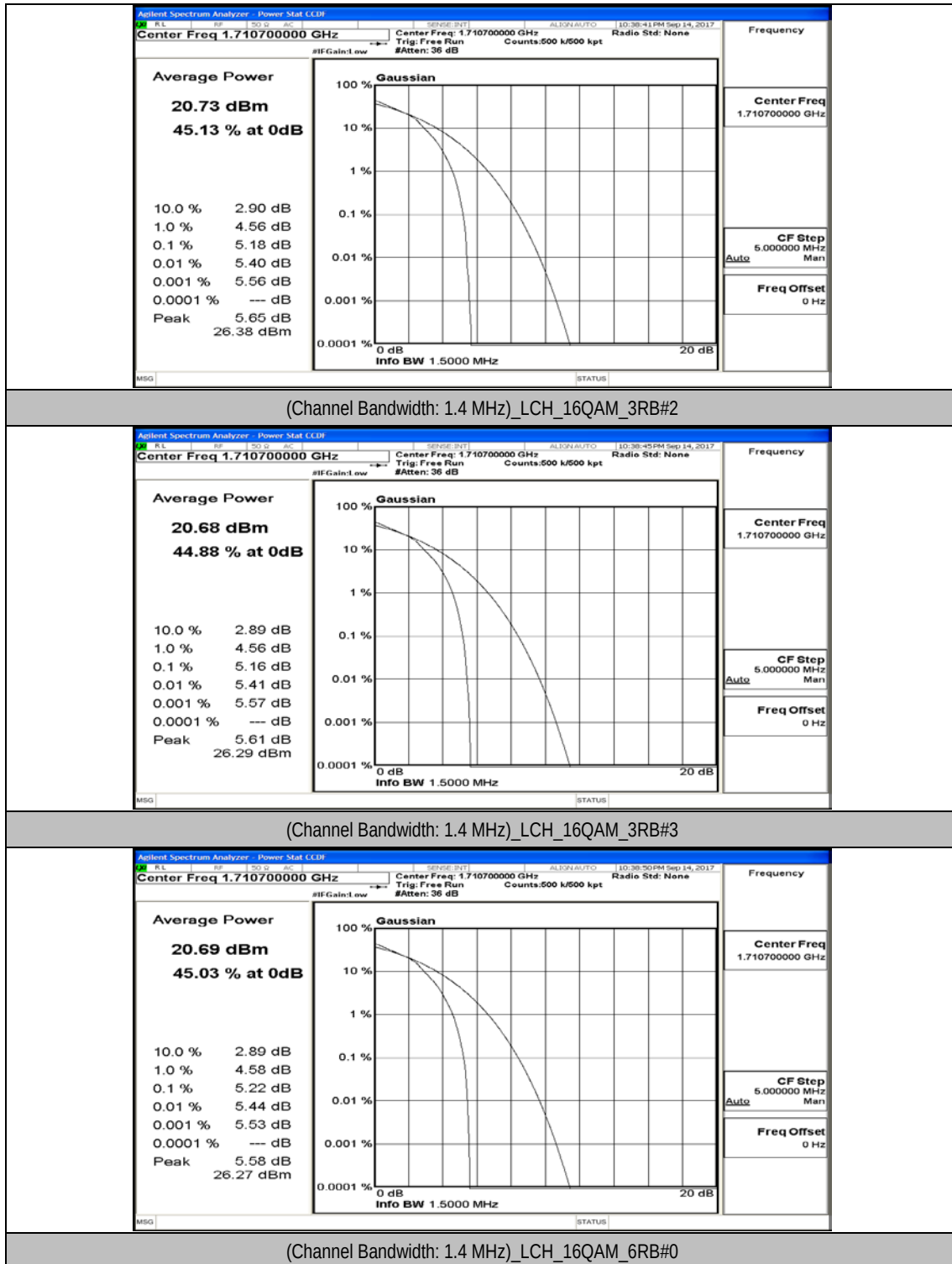
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#3

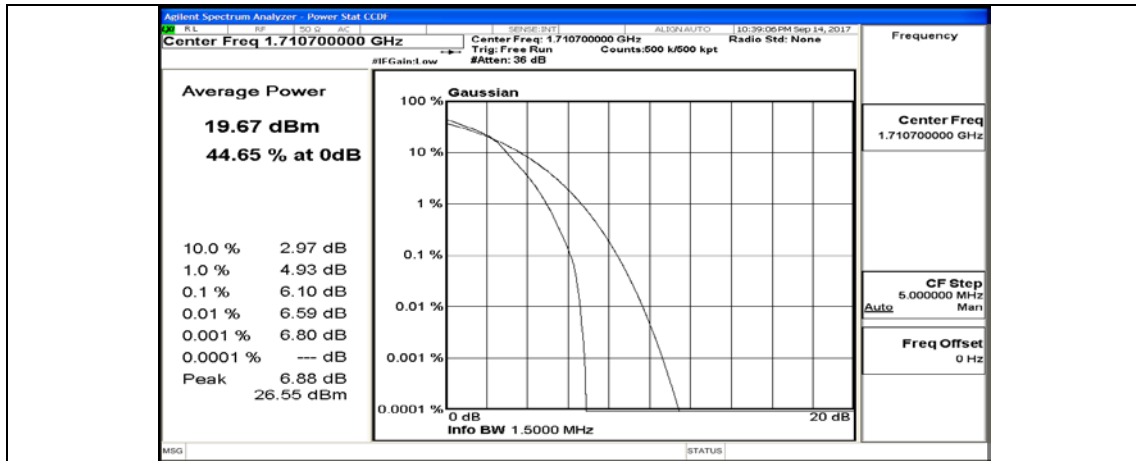


(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#5

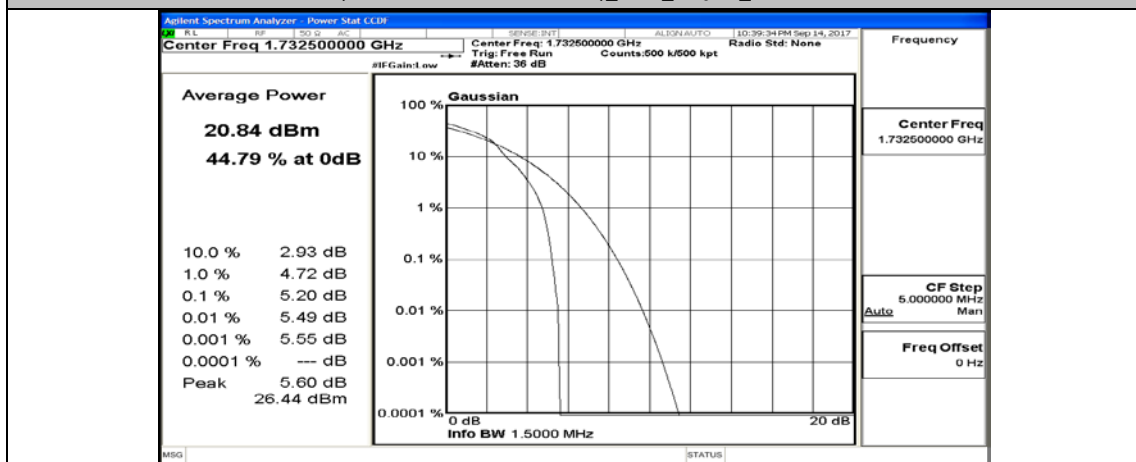


(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_3RB#0

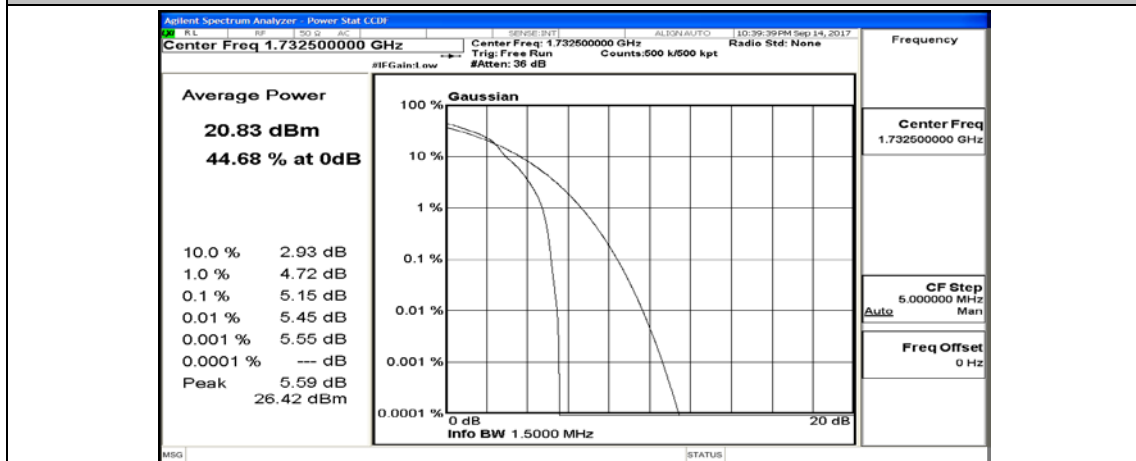




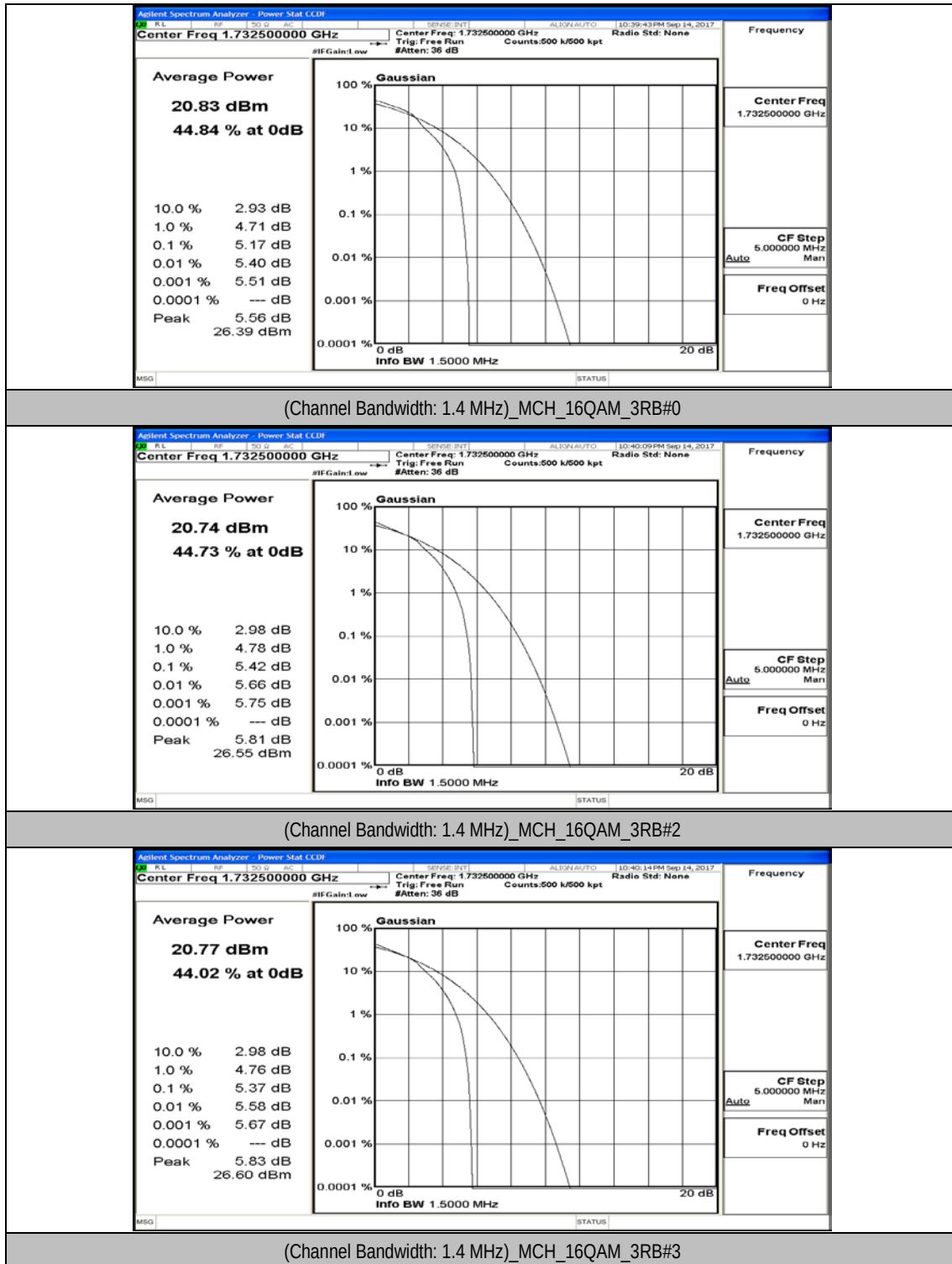
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#0

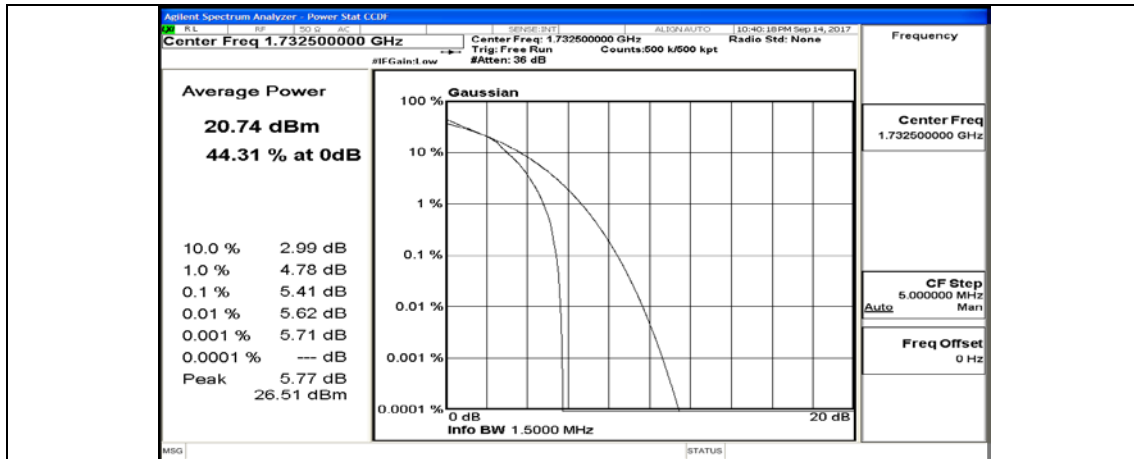


(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#3

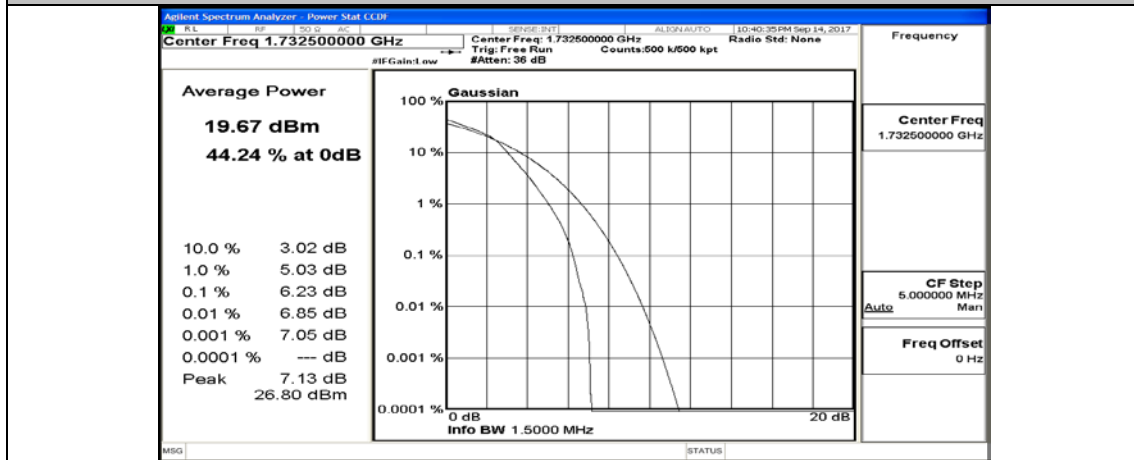


(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#5

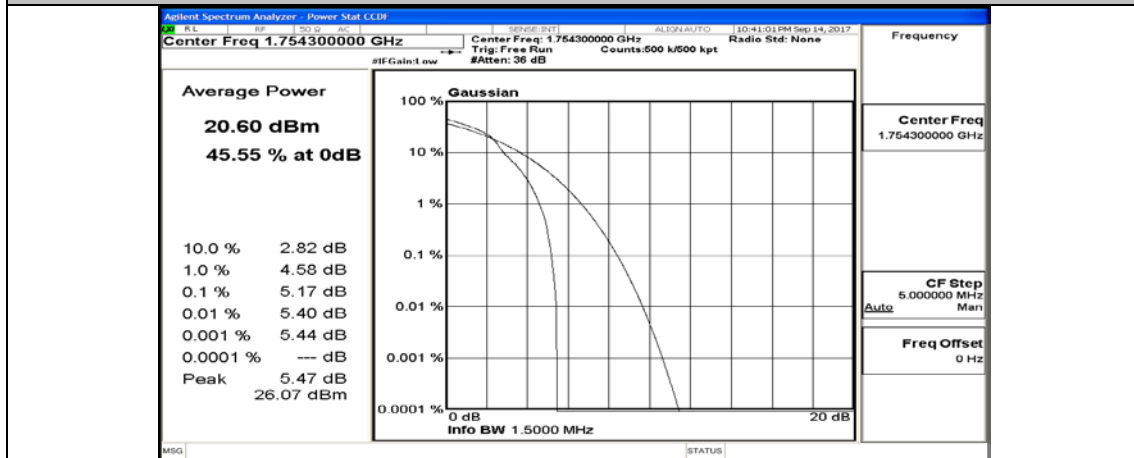




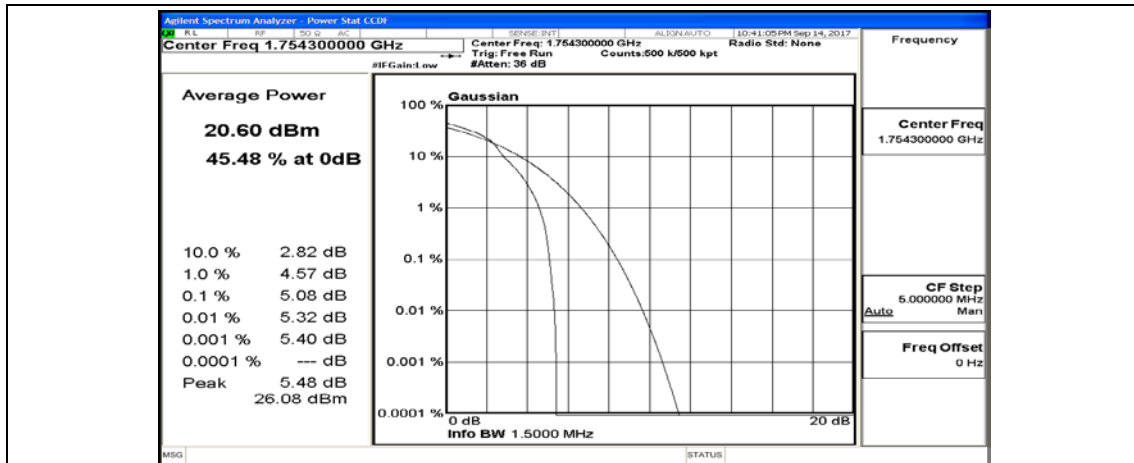
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_6RB#0



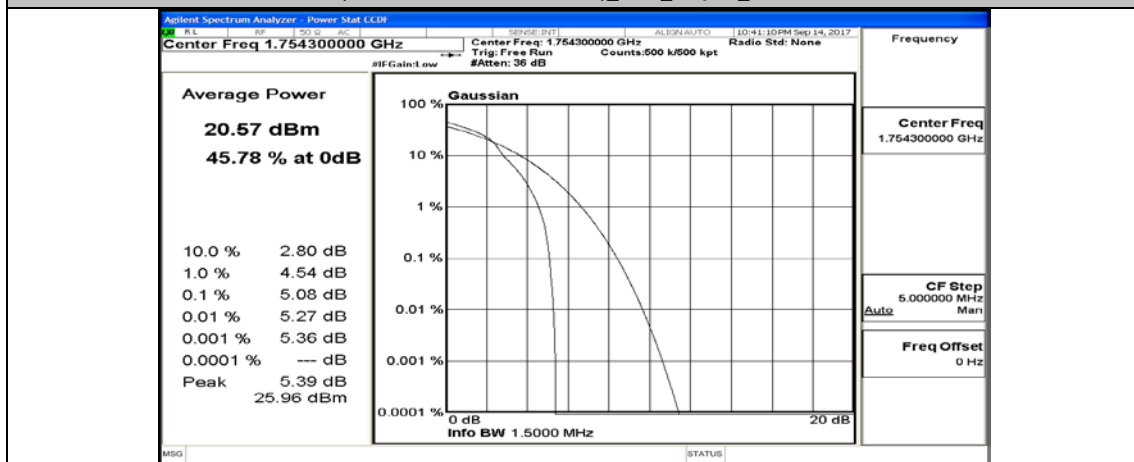
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#0



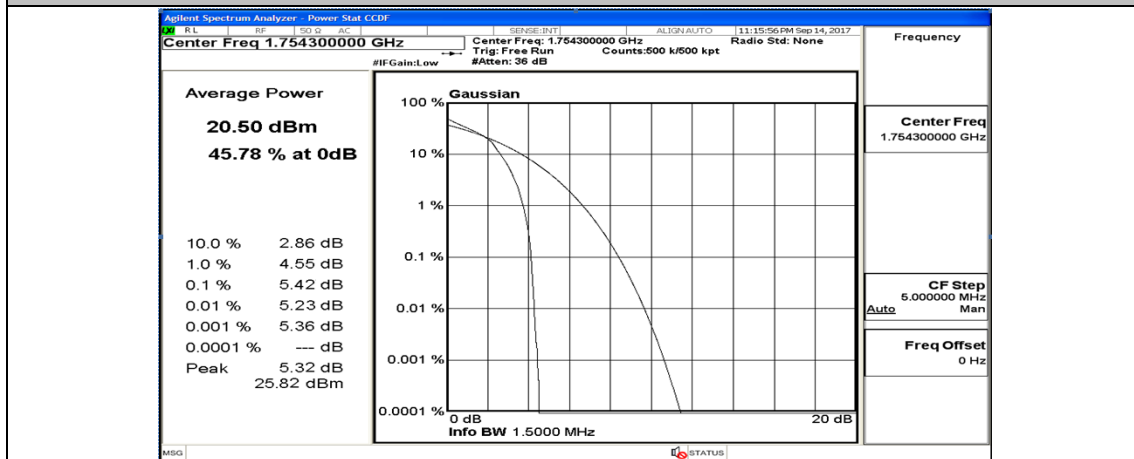
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#3



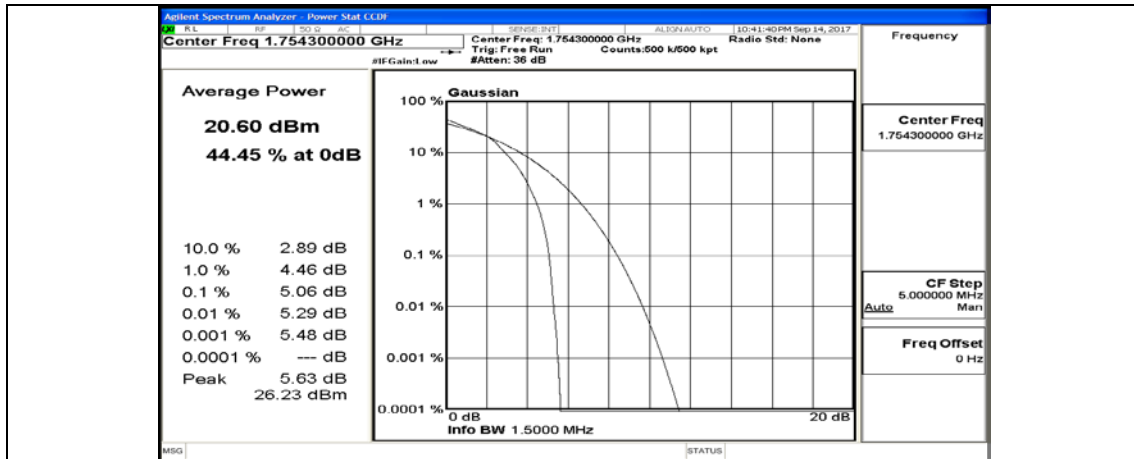
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#5



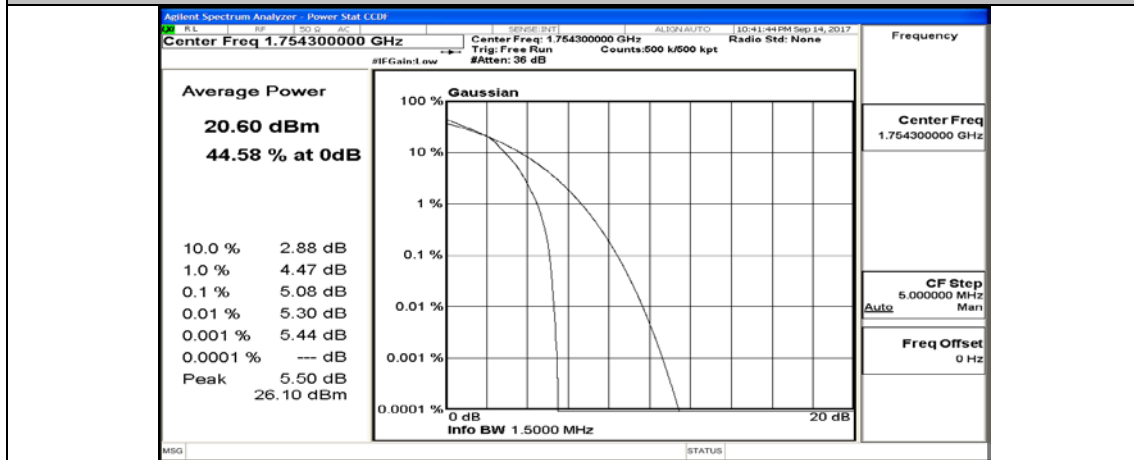
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_3RB#0



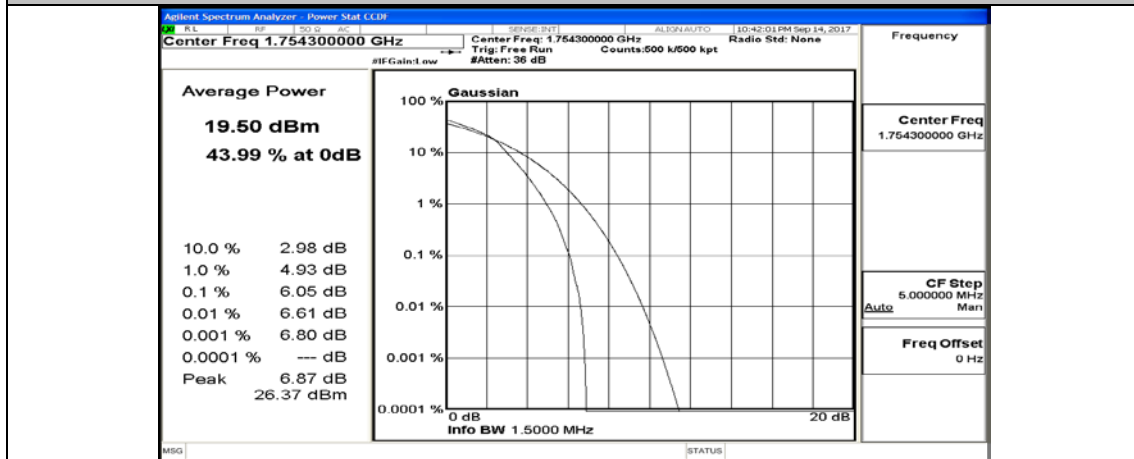
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_3RB#2



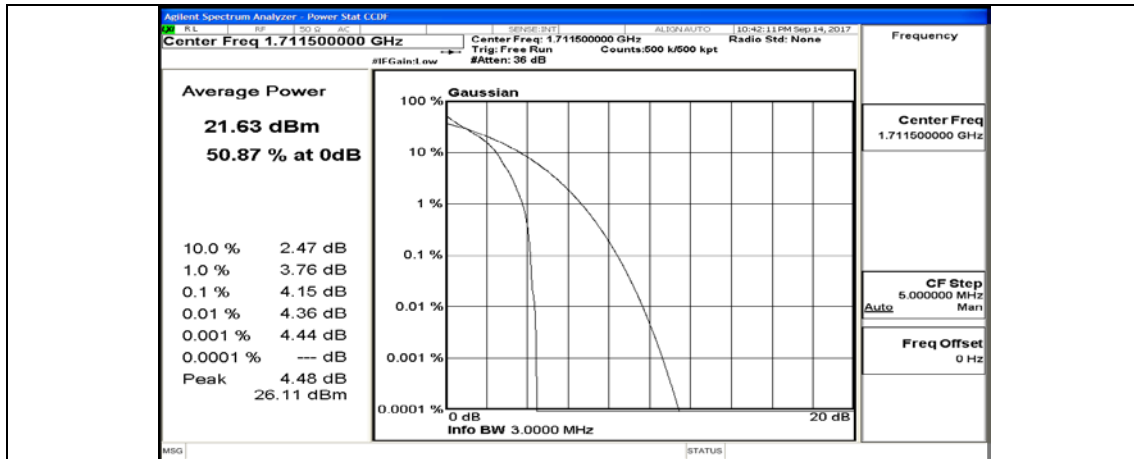
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_3RB#3



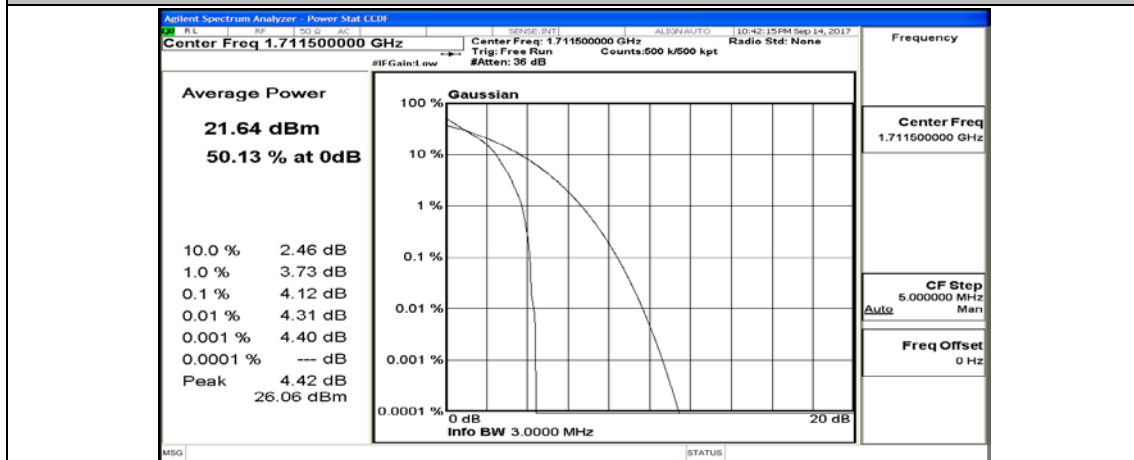
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_6RB#0

**Channel Bandwidth: 3 MHz**

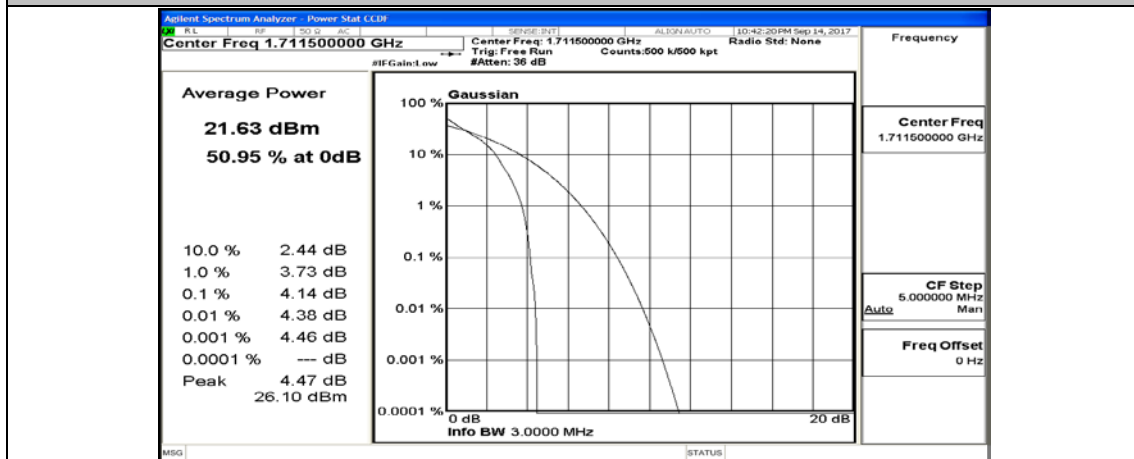
(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#0



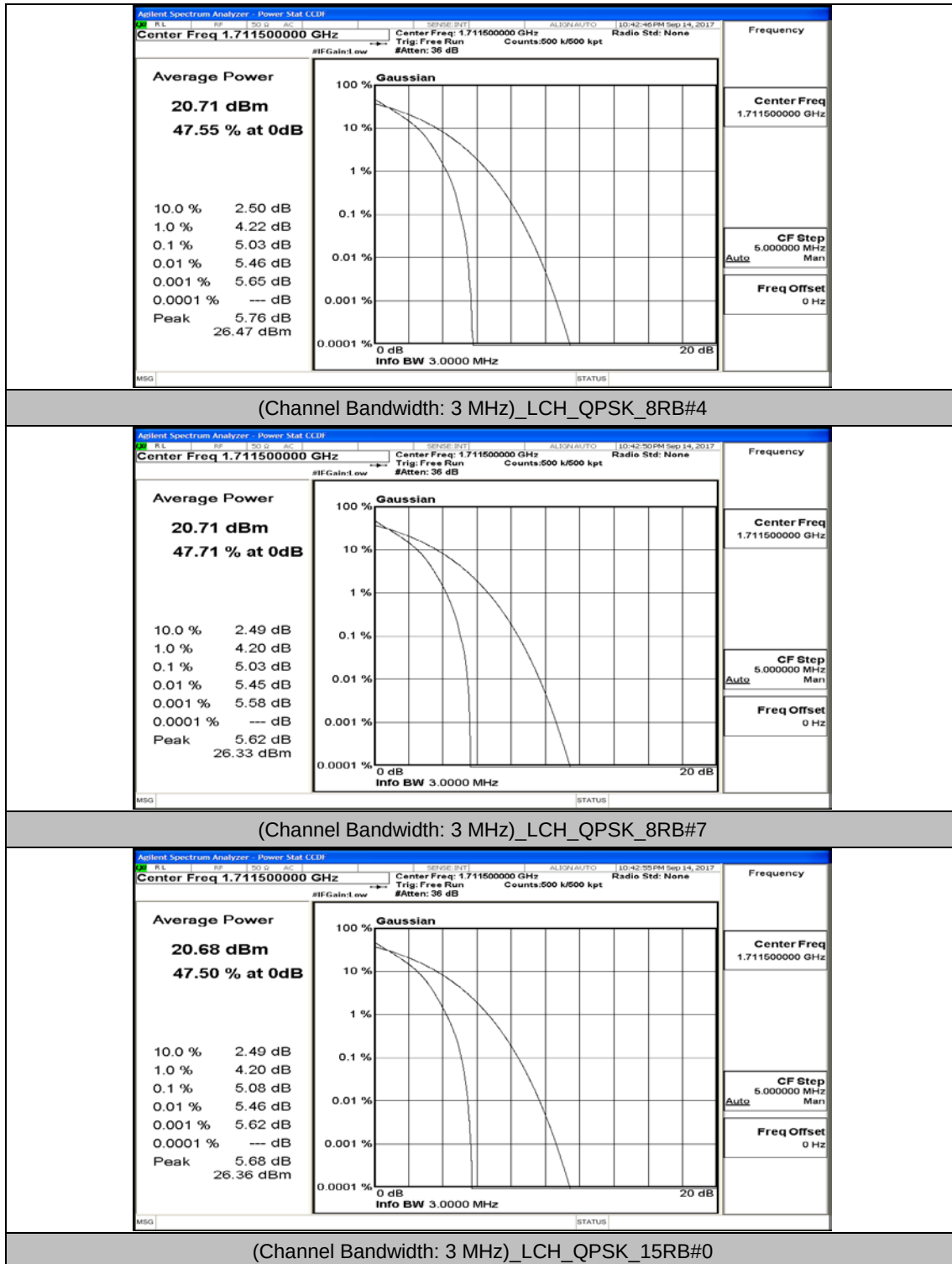
(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#7

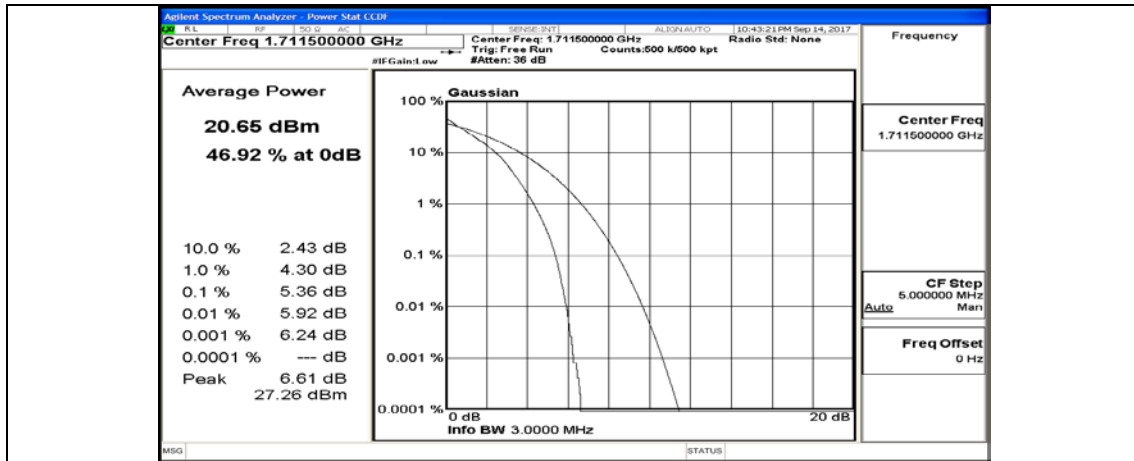


(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#14

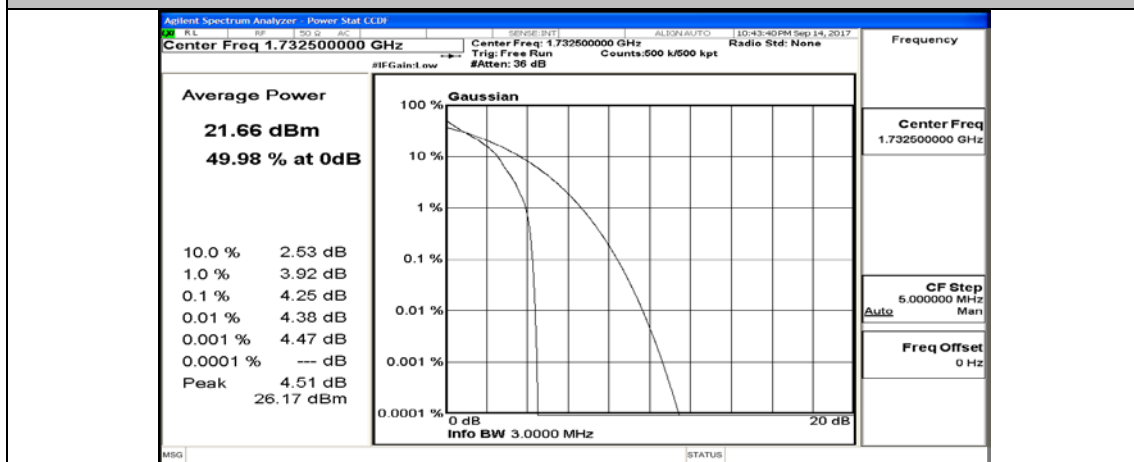


(Channel Bandwidth: 3 MHz)_LCH_QPSK_8RB#0

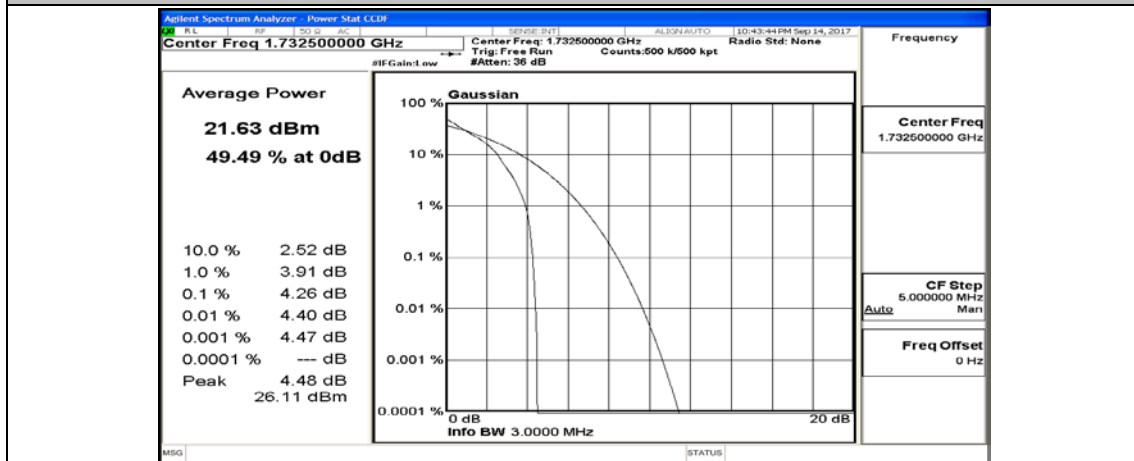




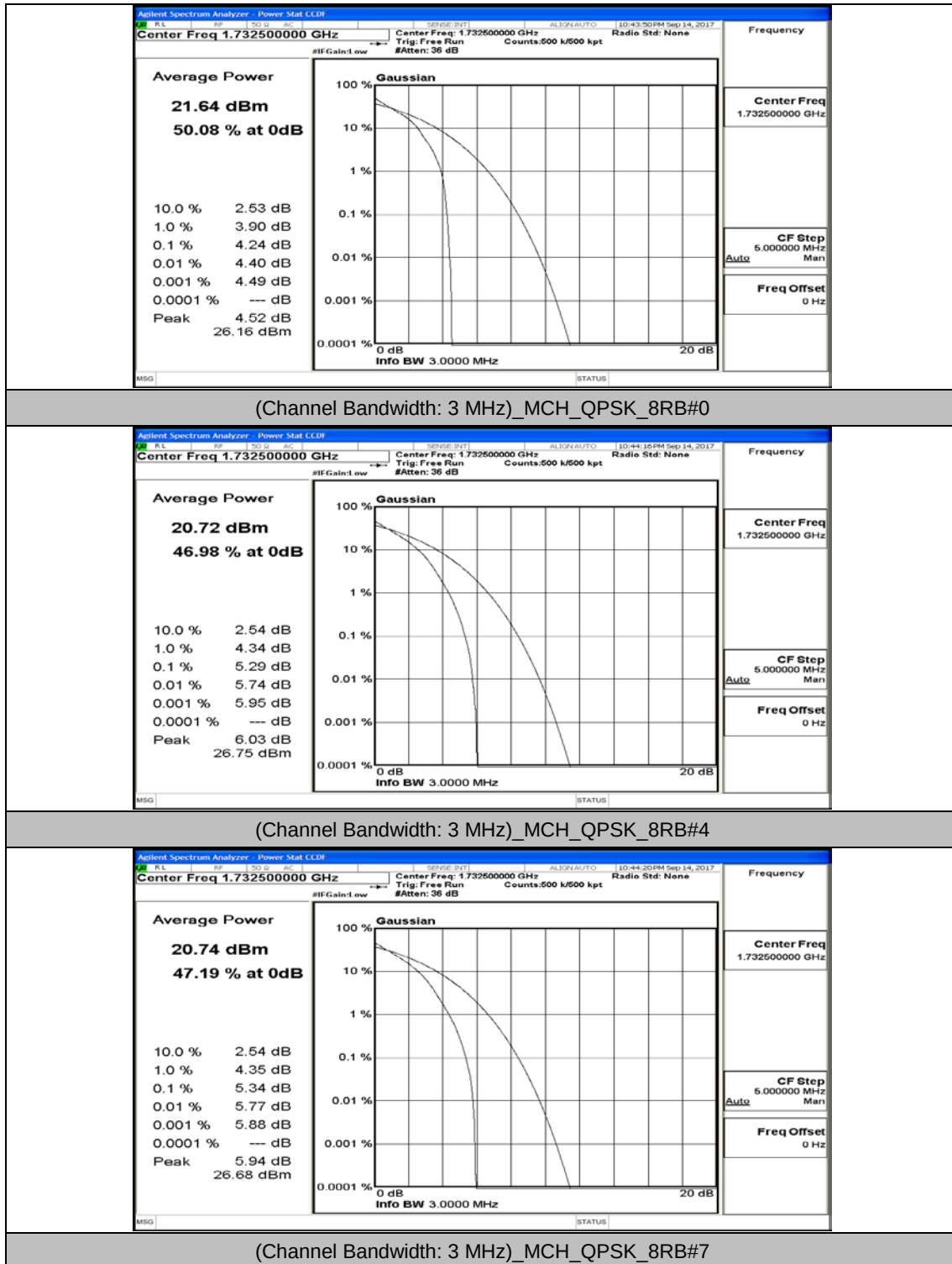
(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#0

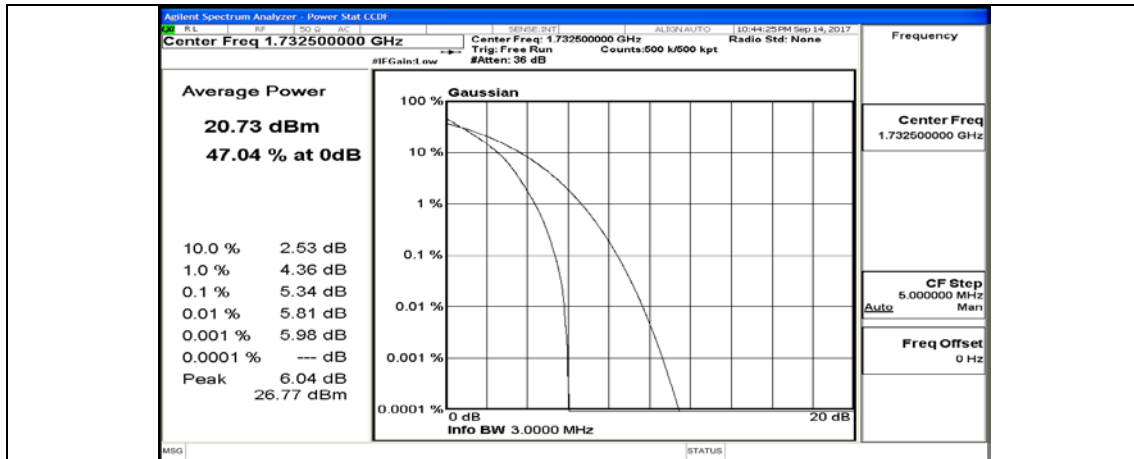


(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#7

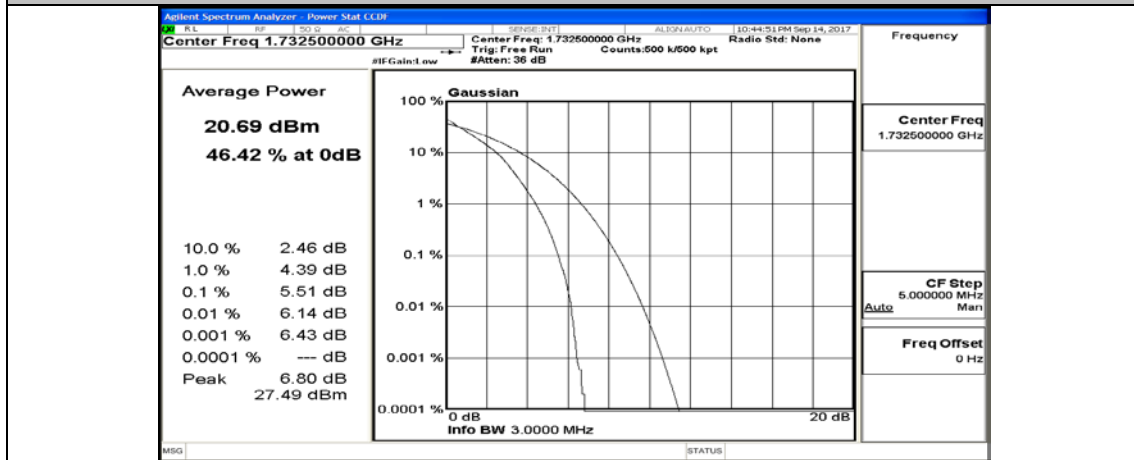


(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#14

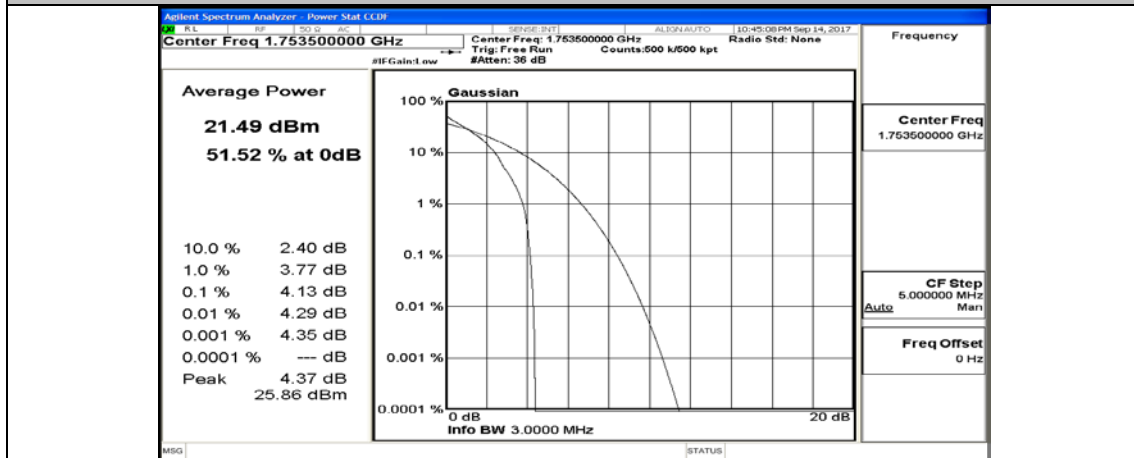




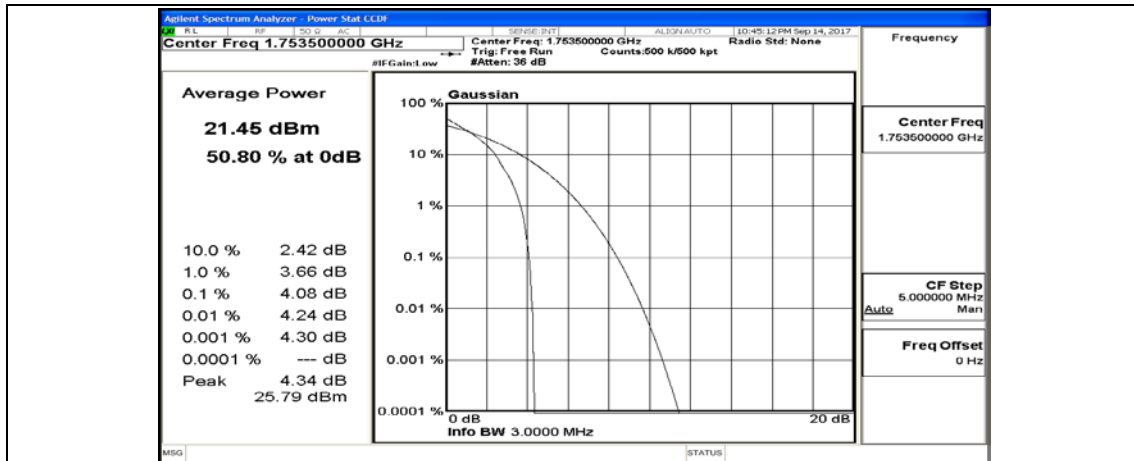
(Channel Bandwidth: 3 MHz)_MCH_QPSK_15RB#0



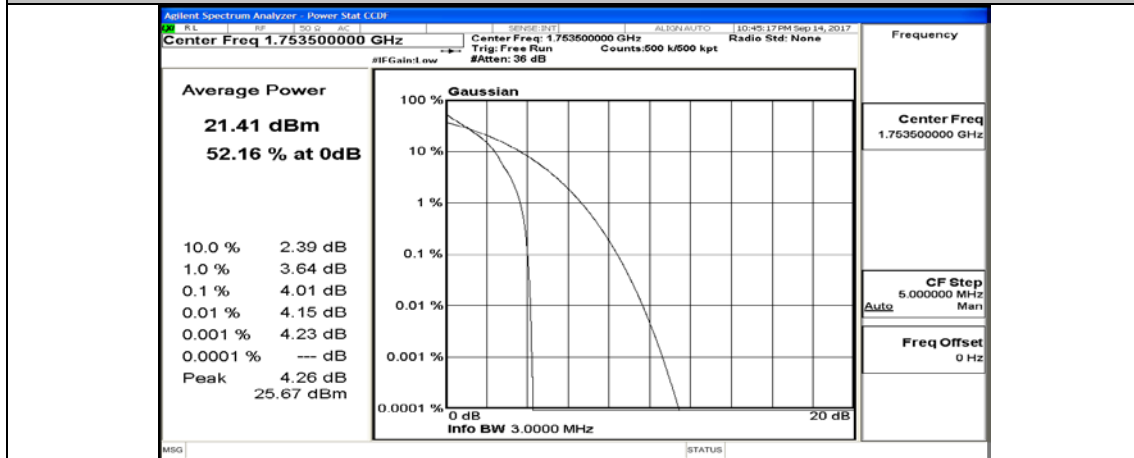
(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#0



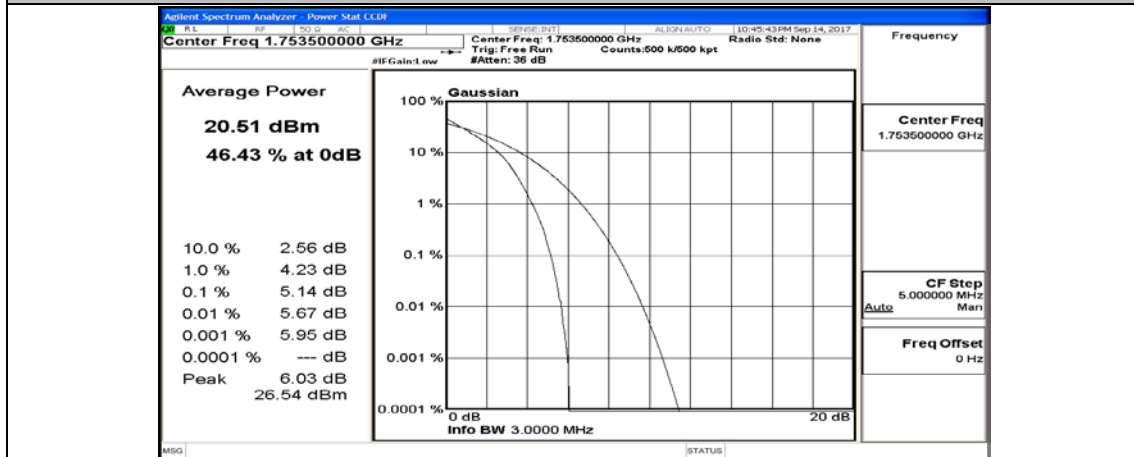
(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#7



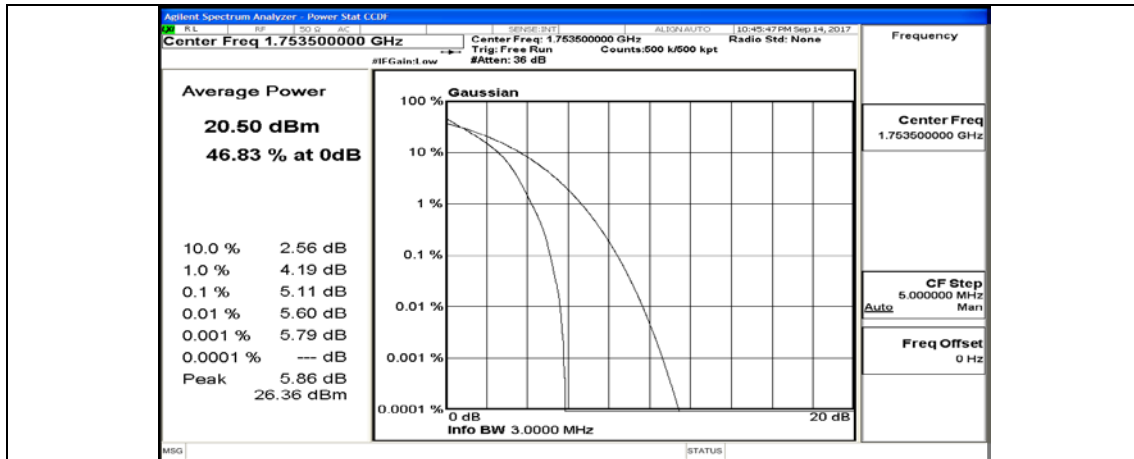
(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#14



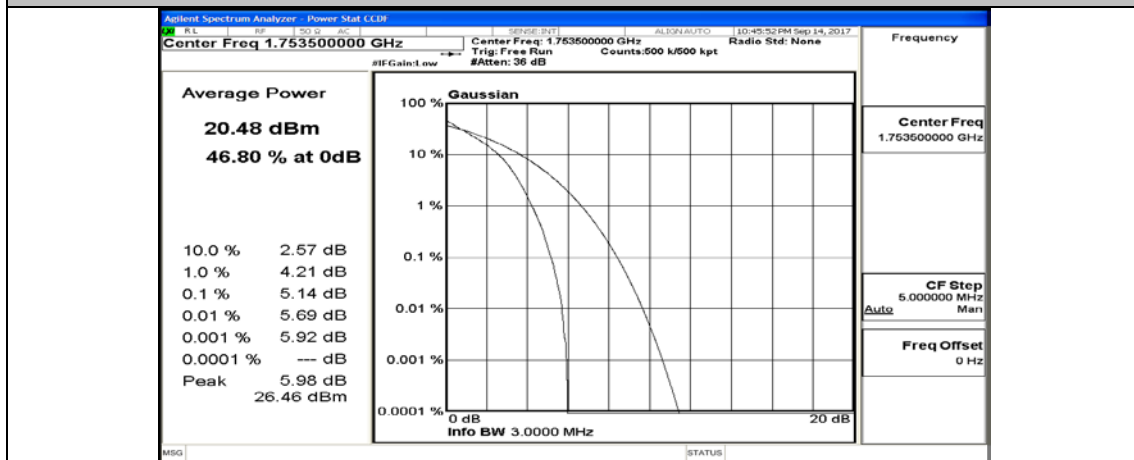
(Channel Bandwidth: 3 MHz)_HCH_QPSK_8RB#0



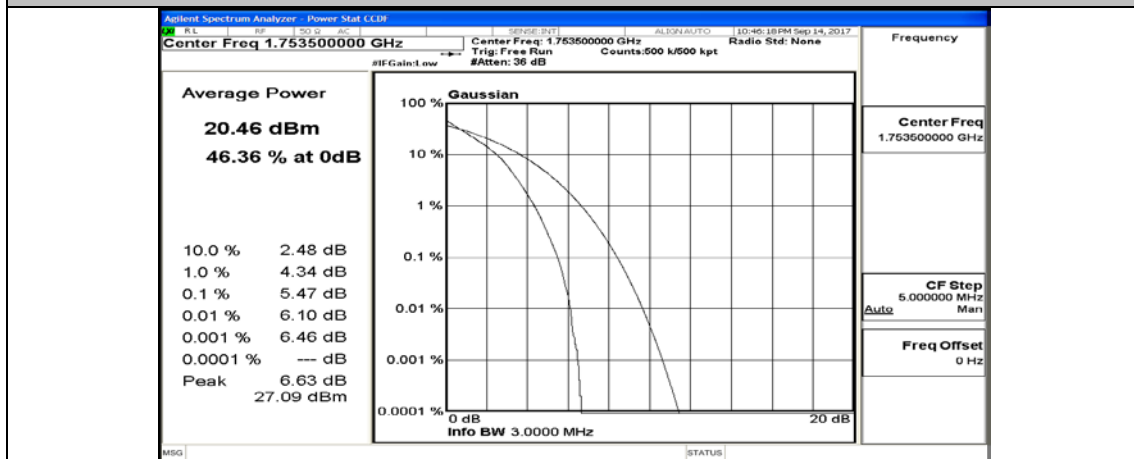
(Channel Bandwidth: 3 MHz)_HCH_QPSK_8RB#4



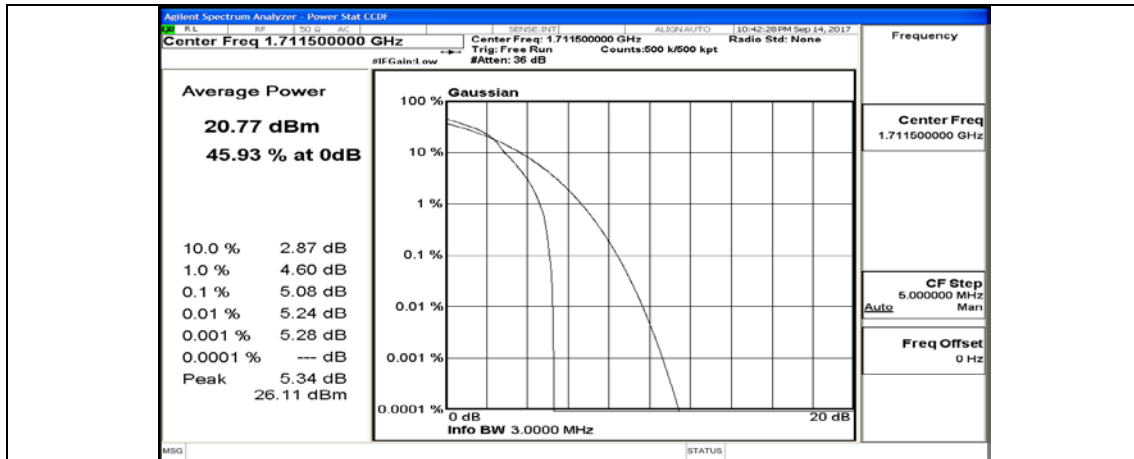
(Channel Bandwidth: 3 MHz)_HCH_QPSK_8RB#7



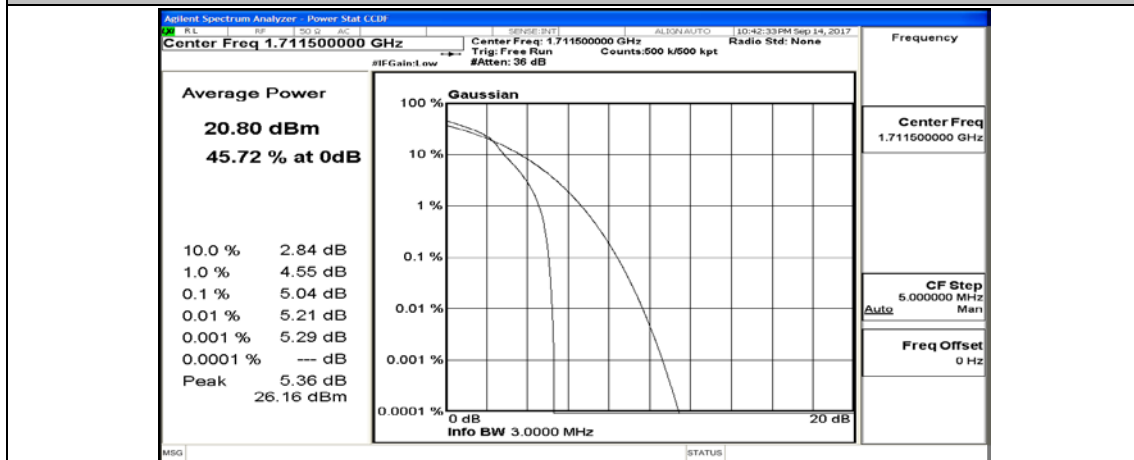
(Channel Bandwidth: 3 MHz)_HCH_QPSK_15RB#0



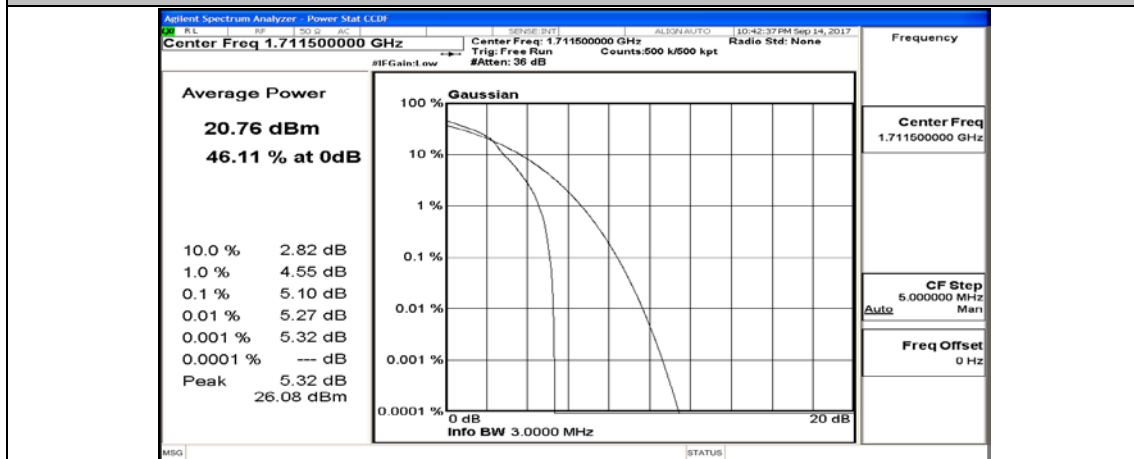
(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#0



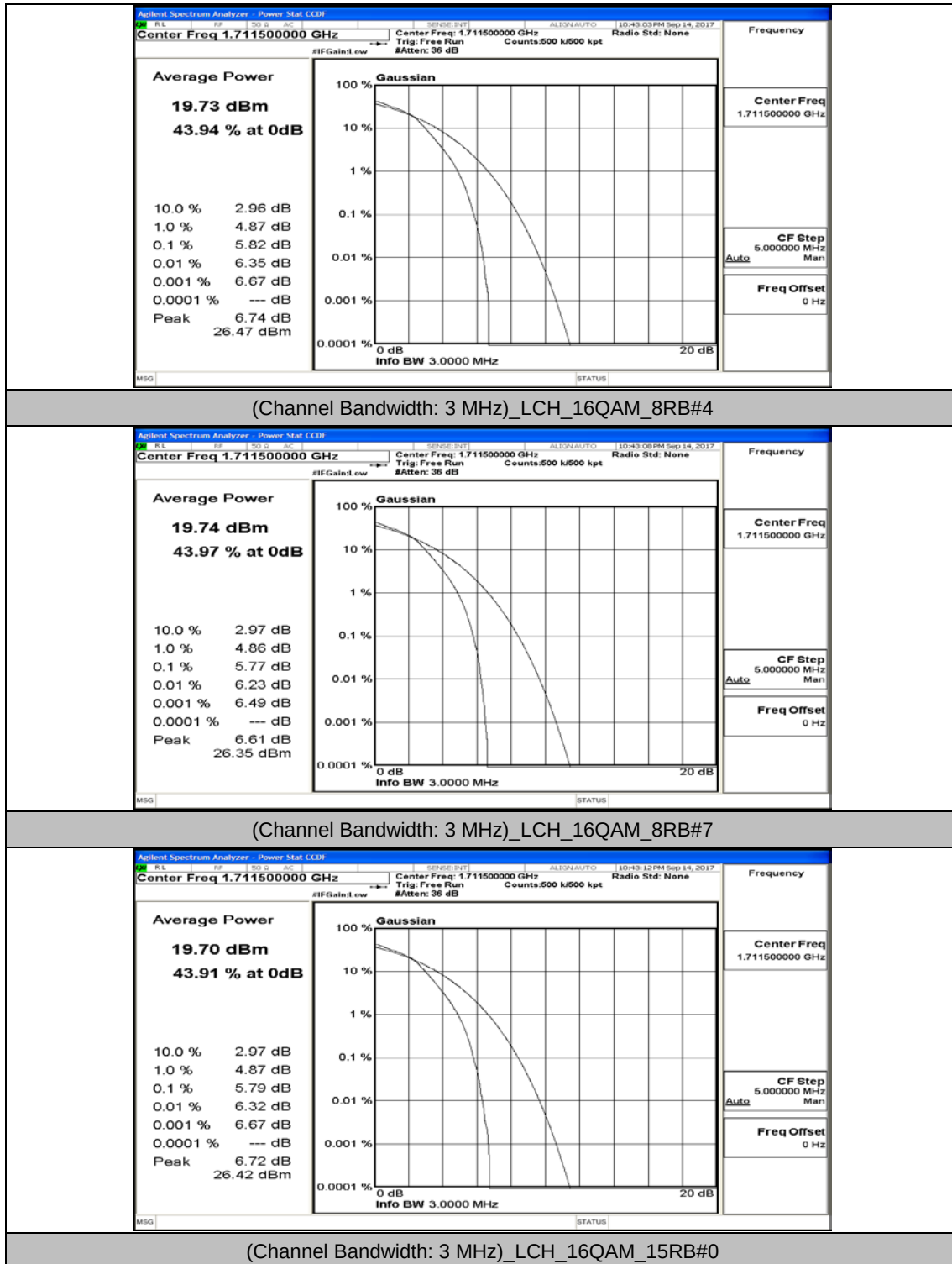
(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#7

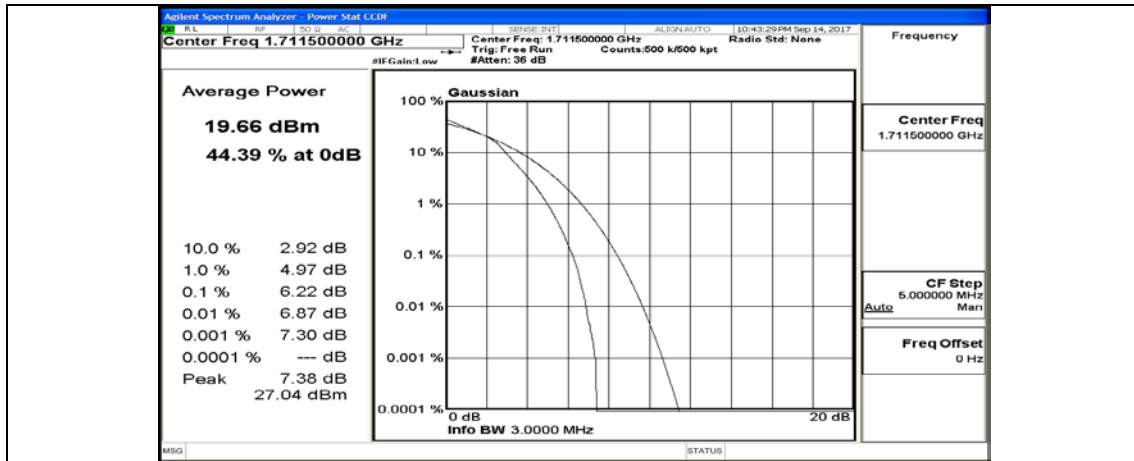


(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#14

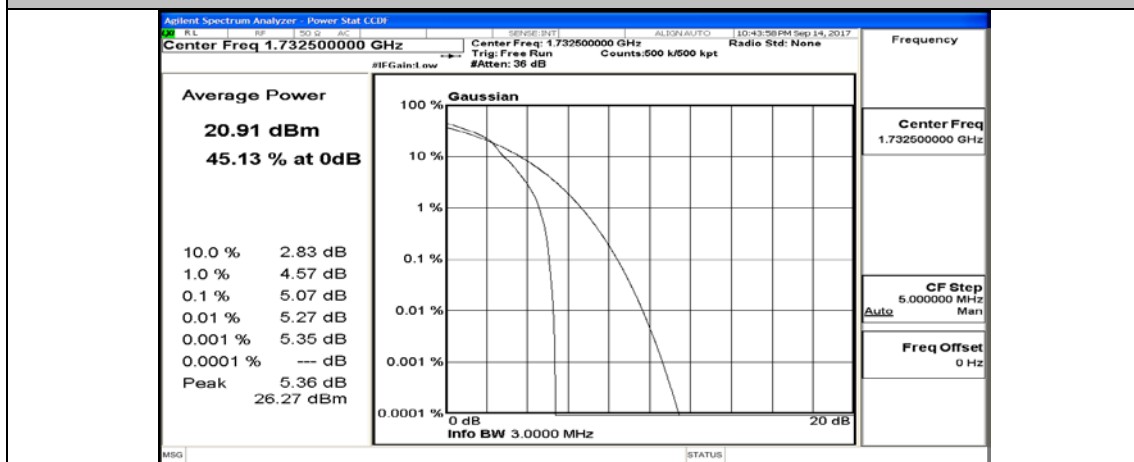


(Channel Bandwidth: 3 MHz)_LCH_16QAM_8RB#0

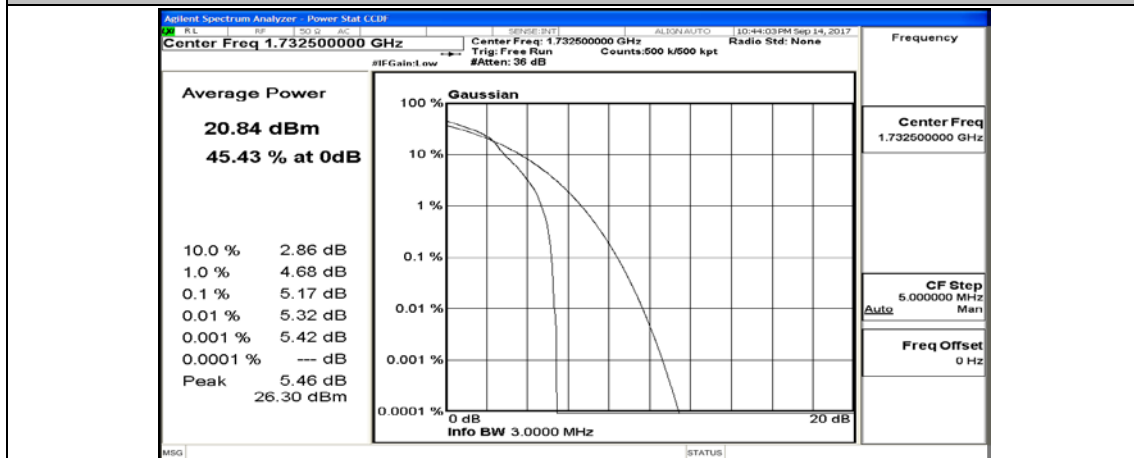




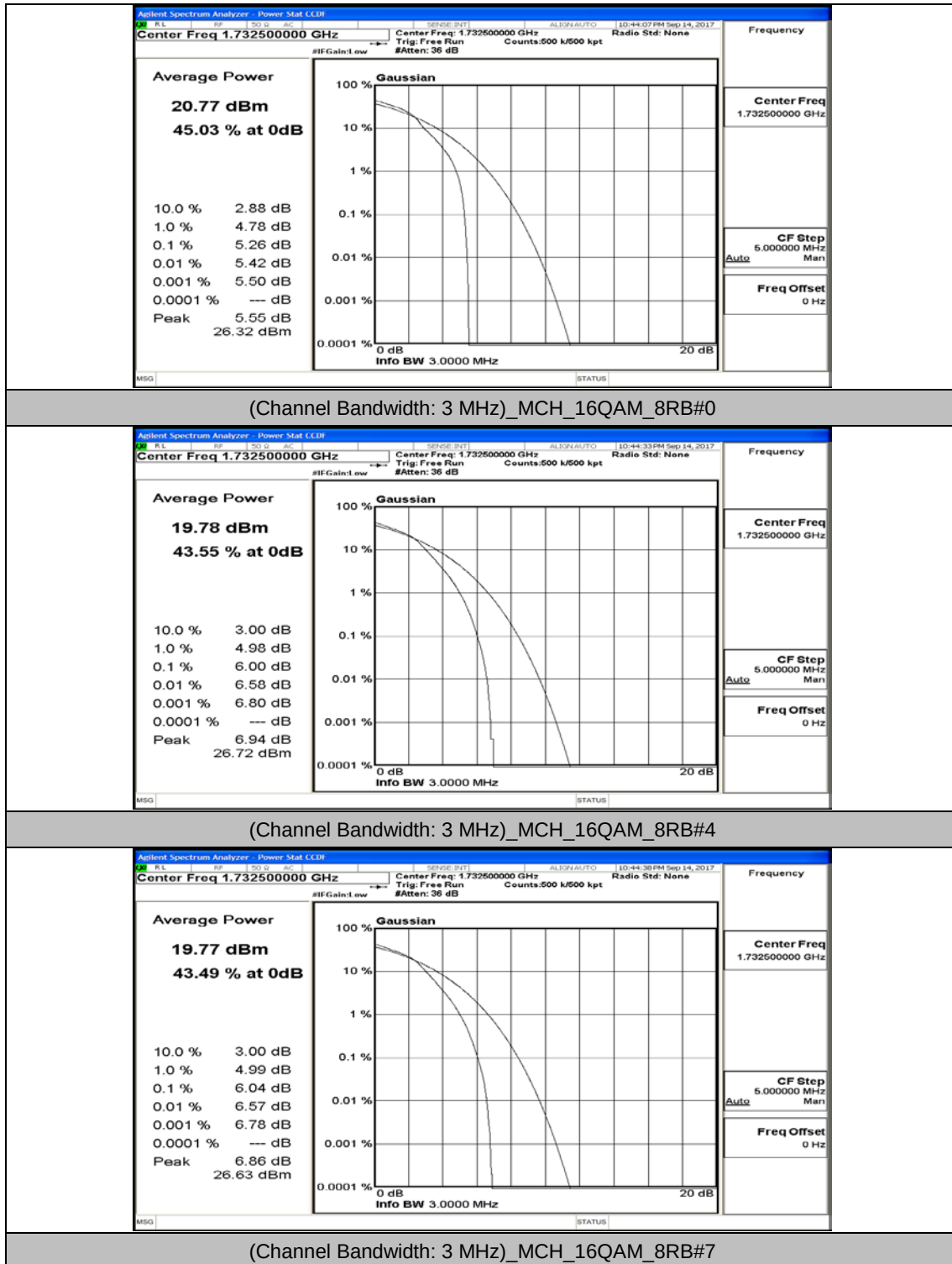
(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#0

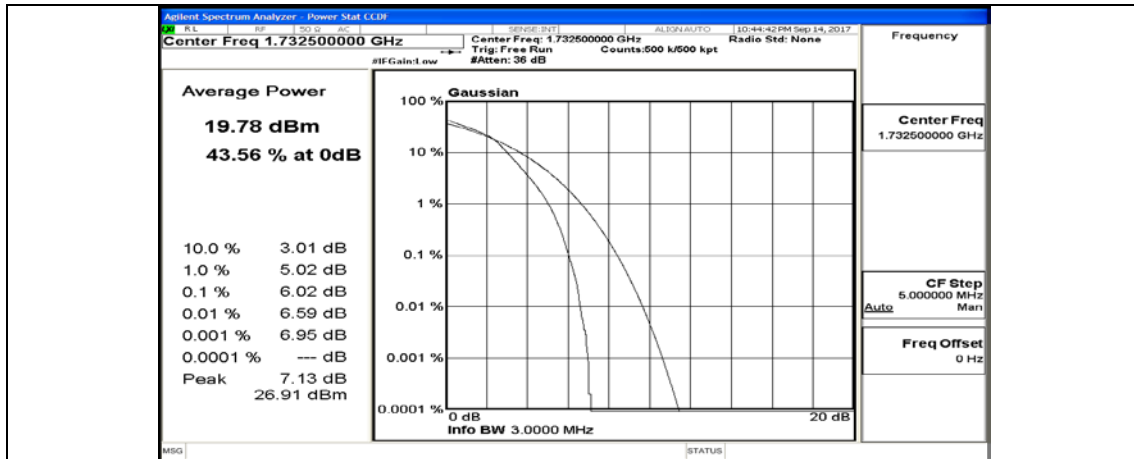


(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#7



(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#14

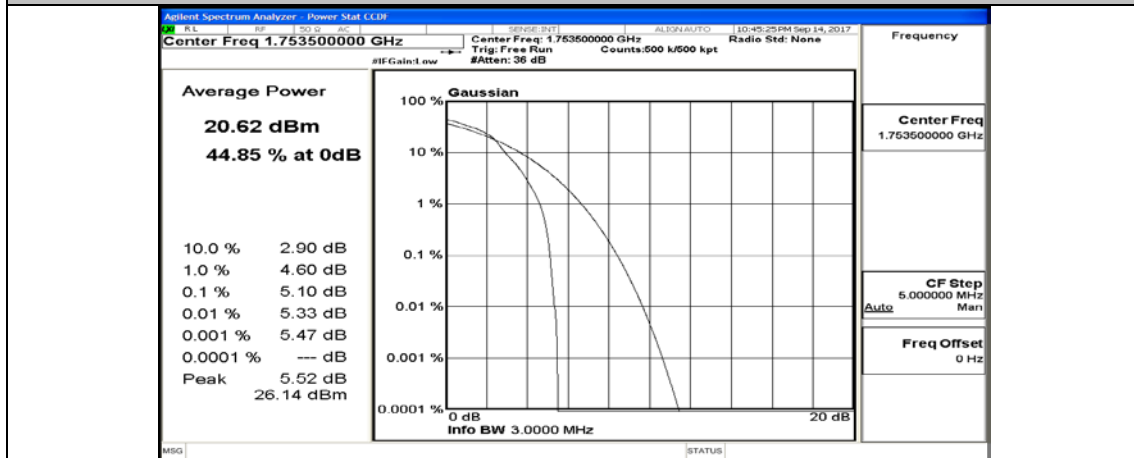




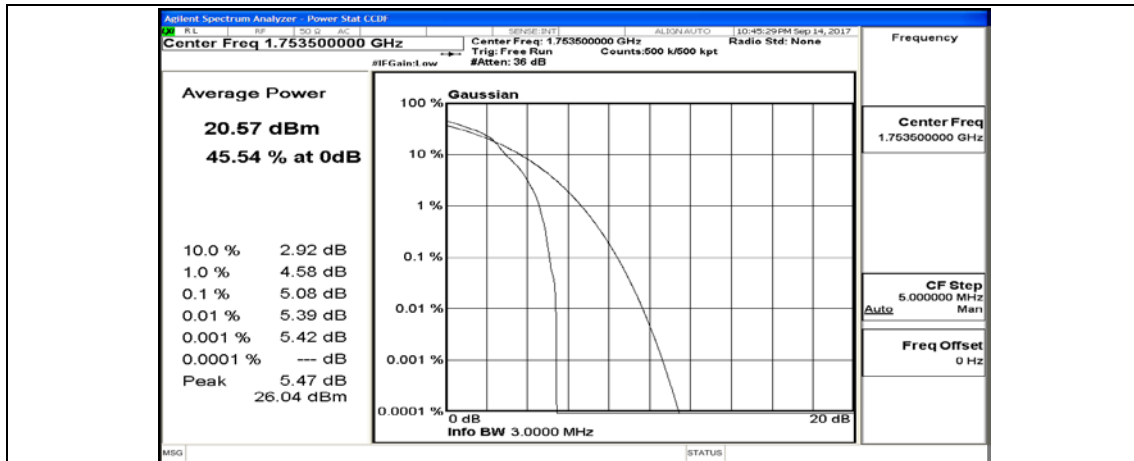
(Channel Bandwidth: 3 MHz)_MCH_16QAM_15RB#0



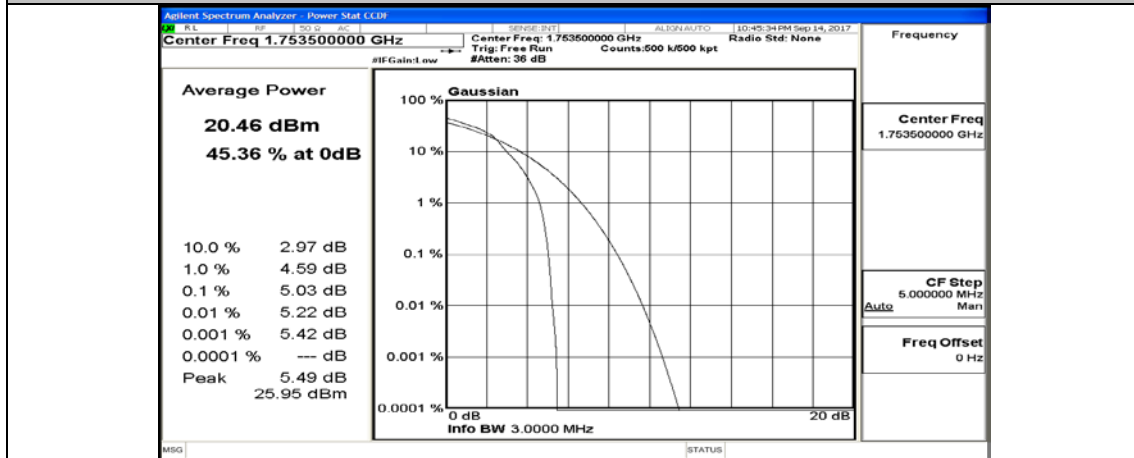
(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#0



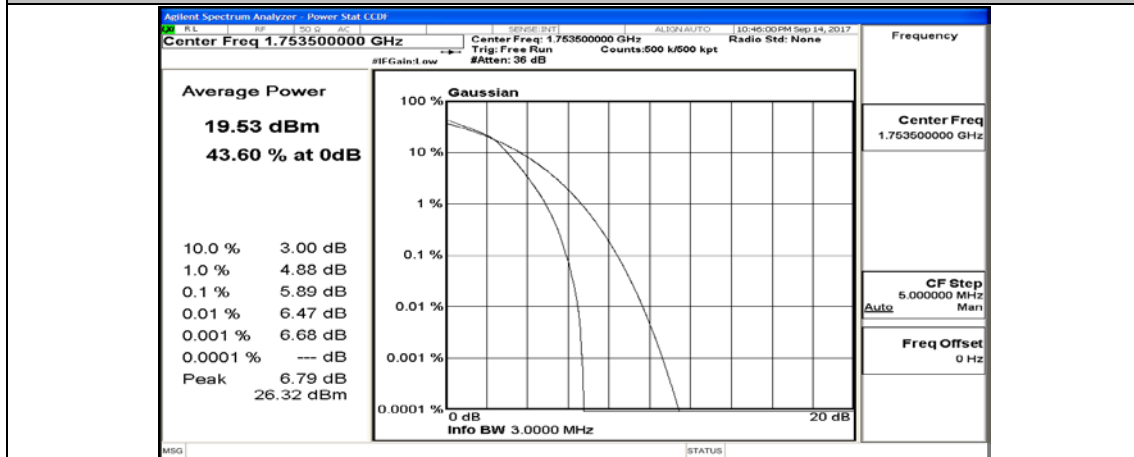
(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#7



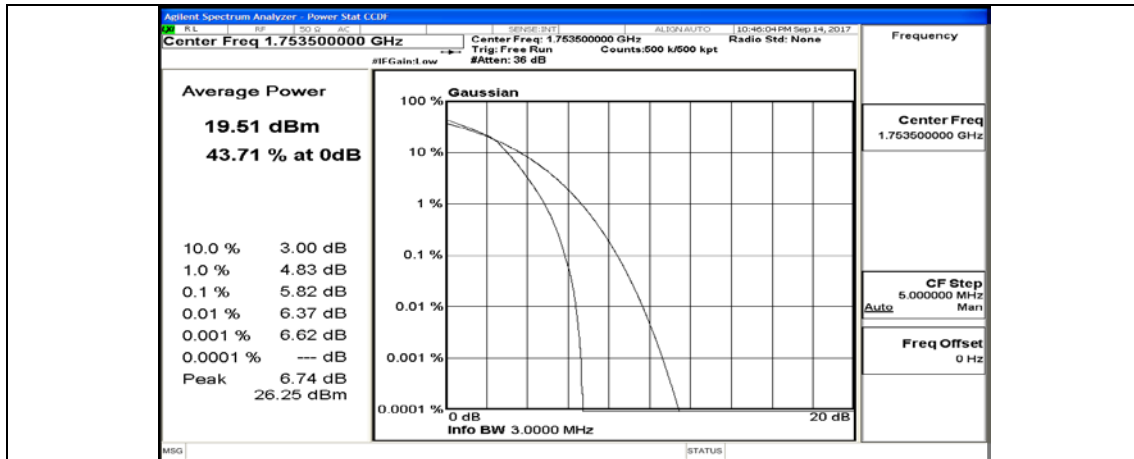
(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#14



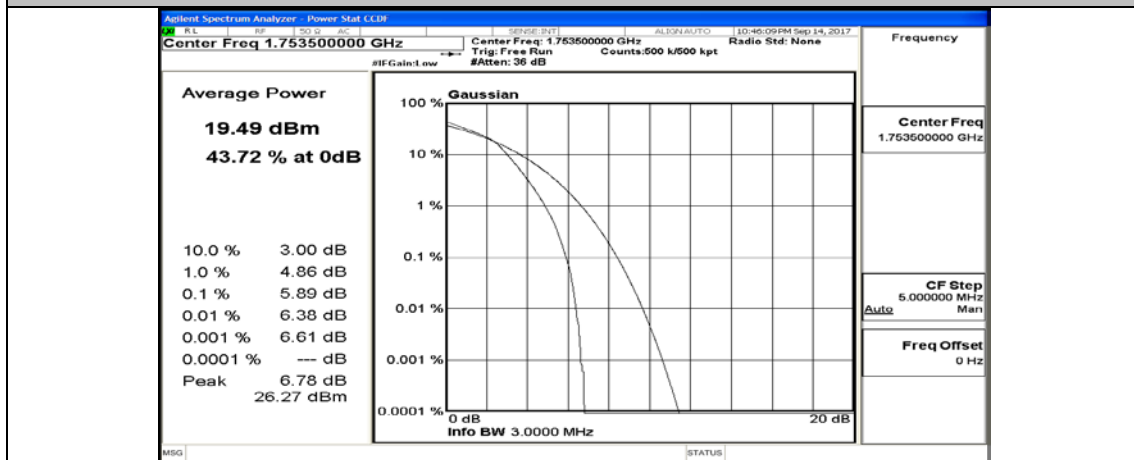
(Channel Bandwidth: 3 MHz)_HCH_16QAM_8RB#0



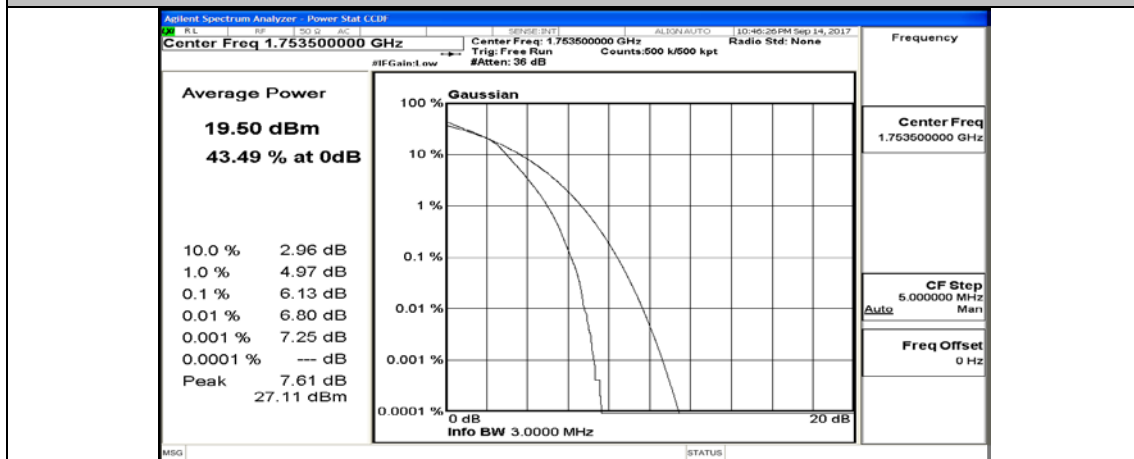
(Channel Bandwidth: 3 MHz)_HCH_16QAM_8RB#4



(Channel Bandwidth: 3 MHz)_HCH_16QAM_8RB#7

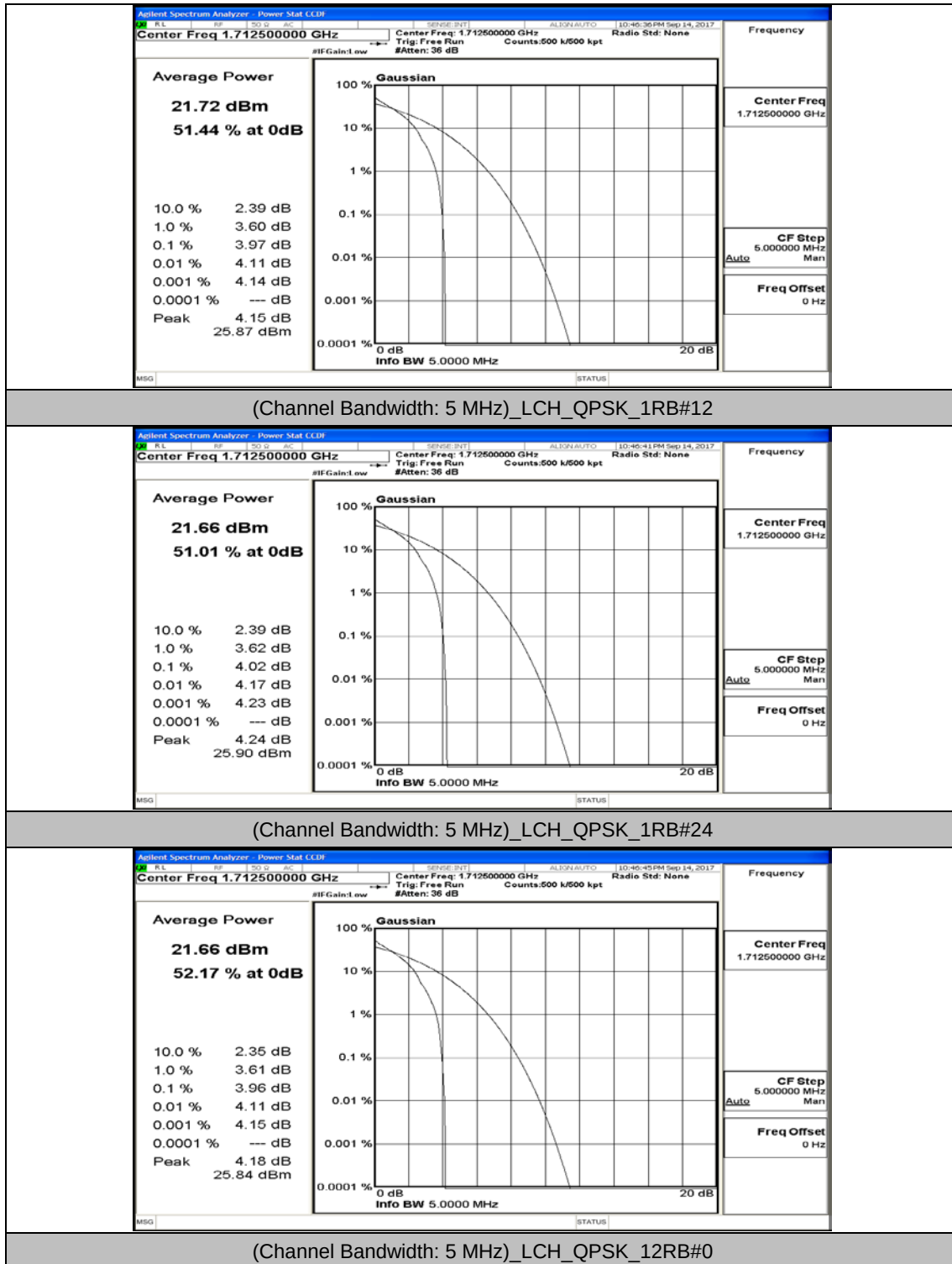


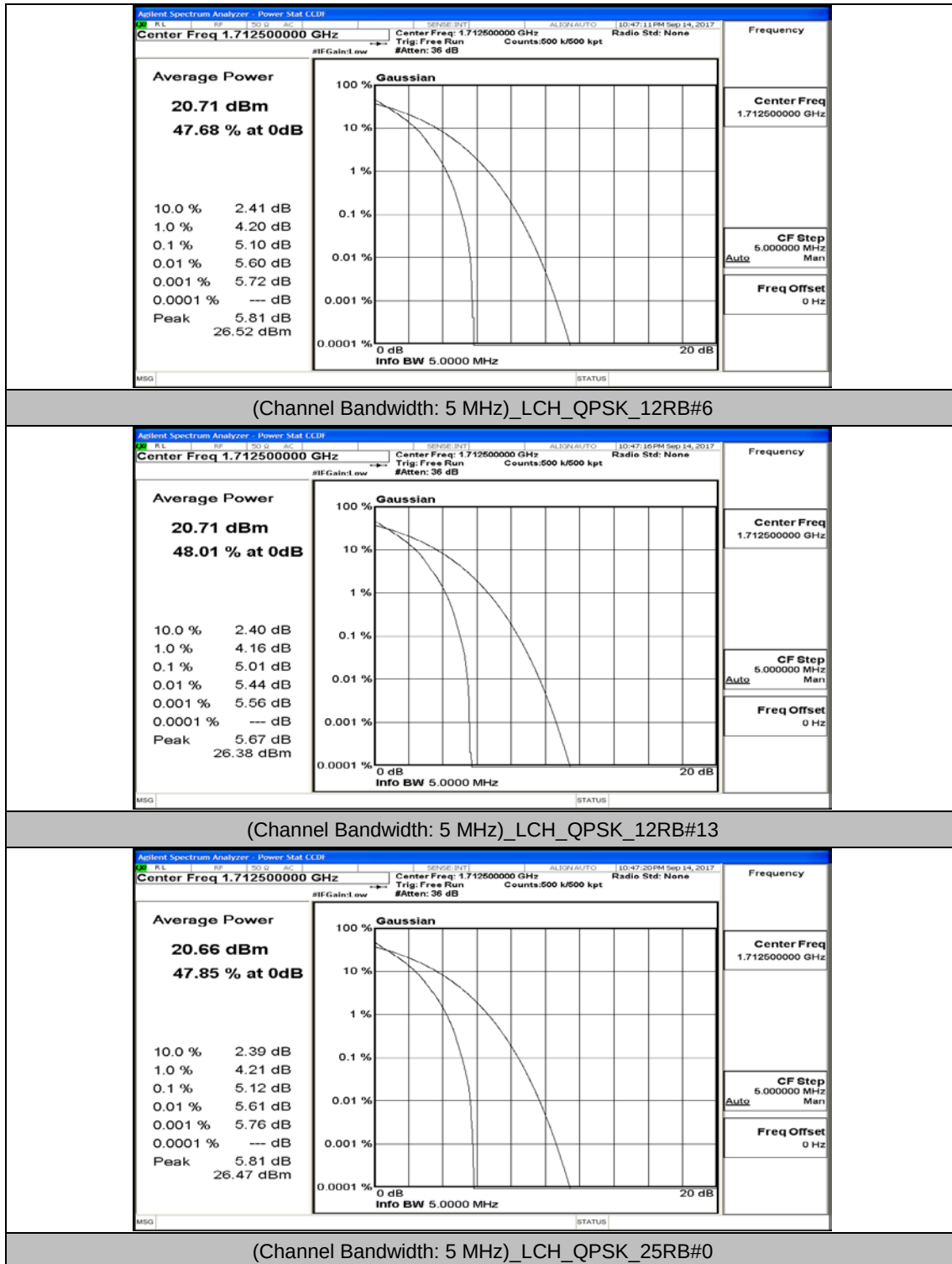
(Channel Bandwidth: 3 MHz)_HCH_16QAM_15RB#0

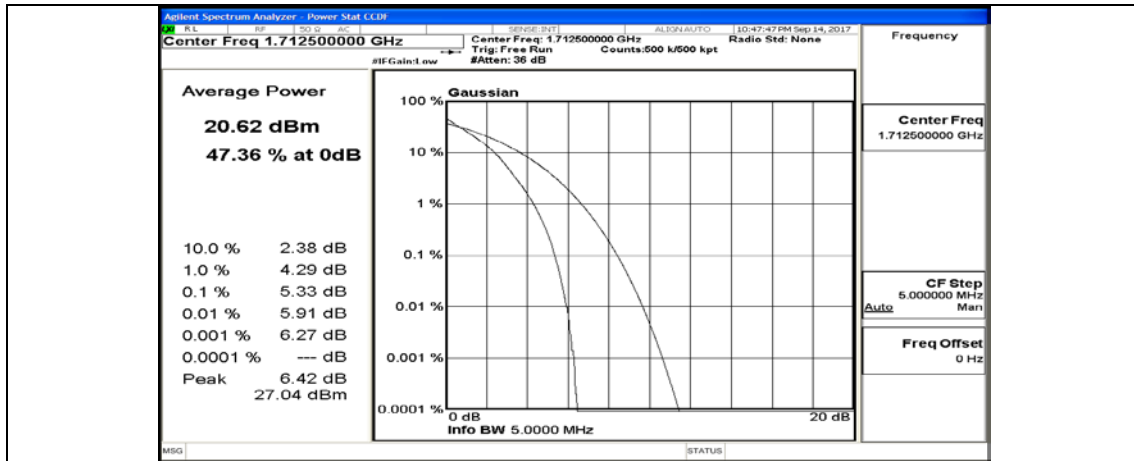


Channel Bandwidth: 5 MHz

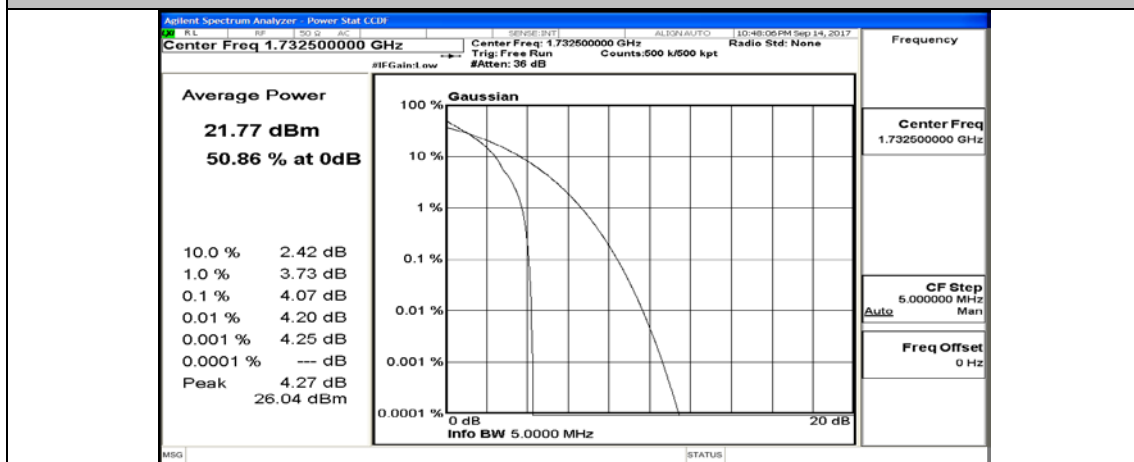
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#0



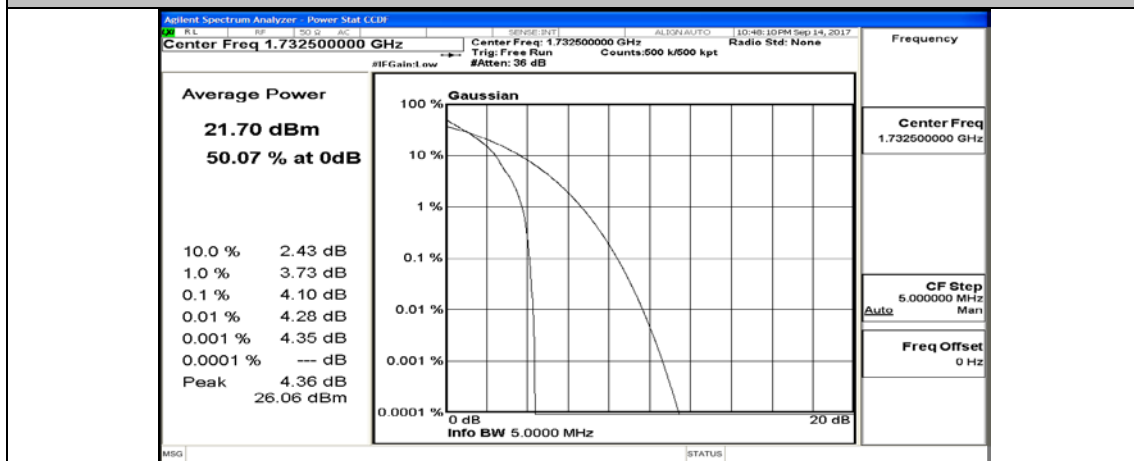




(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#0



(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#12



(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#24