Appendix for Band 13

Appendix A: Average Power Output Data

Test Result

Channel Bandwidth: 5 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	23.45	PASS
		1	12	23.63	PASS
		1	24	23.05	PASS
		12	0	22.98	PASS
		12	6	22.98	PASS
		12	13	22.95	PASS
		25	0	22.97	PASS
	MCH	1	0	23.90	PASS
		1	12	23.91	PASS
		1	24	23.71	PASS
		12	0	22.94	PASS
		12	6	22.88	PASS
		12	13	22.82	PASS
		25	0	22.84	PASS
	HCH	1	0	23.78	PASS
		1	12	23.68	PASS
		1	24	23.44	PASS
		12	0	22.83	PASS
		12	6	22.74	PASS
		12	13	22.68	PASS
		25	0	22.82	PASS
16QAM	LCH	1	0	23.31	PASS
		1	12	23.35	PASS
		1	24	23.28	PASS
		12	0	22.11	PASS
		12	6	22.06	PASS
		12	13	21.99	PASS
		25	0	21.94	PASS
	MCH	1	0	23.07	PASS
		1	12	23.00	PASS
		1	24	22.80	PASS
		12	0	21.91	PASS
		12	6	21.83	PASS

		12	13	21.75	PASS
		25	0	21.90	PASS
	HCH	1	0	22.97	PASS
		1	12	22.86	PASS
		1	24	22.68	PASS
		12	0	21.90	PASS
		12	6	21.80	PASS
		12	13	21.76	PASS
		25	0	21.78	PASS

Channel Bandwidth: 10 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	24.02	PASS
		1	24	23.99	PASS
		1	49	23.88	PASS
		25	0	23.06	PASS
		25	12	22.84	PASS
		25	25	22.84	PASS
		50	0	23.00	PASS
	MCH	1	0	23.44	PASS
		1	24	23.66	PASS
		1	49	23.14	PASS
		25	0	23.05	PASS
		25	12	22.85	PASS
		25	25	22.84	PASS
		50	0	23.01	PASS
	HCH	1	0	23.44	PASS
		1	24	23.66	PASS
		1	49	23.03	PASS
		25	0	23.05	PASS
		25	12	22.84	PASS
		25	25	22.83	PASS
		50	0	22.99	PASS
16QAM	LCH	1	0	22.97	PASS
		1	24	22.95	PASS
		1	49	22.31	PASS
		25	0	22.12	PASS
		25	12	21.92	PASS
		25	25	21.79	PASS
		50	0	21.90	PASS
	MCH	1	0	22.97	PASS

		1	24	22.93	PASS
		1	49	22.39	PASS
		25	0	22.12	PASS
		25	12	21.93	PASS
		25	25	21.78	PASS
		50	0	21.88	PASS
	HCH	1	0	22.95	PASS
		1	24	22.94	PASS
		1	49	22.27	PASS
		25	0	22.12	PASS
		25	12	21.93	PASS
		25	25	21.77	PASS
		50	0	21.89	PASS

Appendix B: Peak-to-Average Ratio

Test Result

Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio	Limit	Verdict
		Size	Offset	[dB]	[dB]	
QPSK	LCH	1	0	2.94	<13	PASS
		1	12	3.71	<13	PASS
		1	24	4.69	<13	PASS
		12	0	3.7	<13	PASS
		12	6	4.08	<13	PASS
		12	13	4.72	<13	PASS
		25	0	4.6	<13	PASS
	MCH	1	0	4.12	<13	PASS
		1	12	4.88	<13	PASS
		1	24	4.89	<13	PASS
		12	0	4.81	<13	PASS
		12	6	4.99	<13	PASS
		12	13	5.12	<13	PASS
		25	0	5.22	<13	PASS
	HCH	1	0	4.85	<13	PASS
		1	12	4.74	<13	PASS
		1	24	4.36	<13	PASS
		12	0	5.12	<13	PASS
		12	6	4.94	<13	PASS
		12	13	4.86	<13	PASS
		25	0	5.24	<13	PASS
16QAM	LCH	1	0	3.86	<13	PASS
		1	12	4.62	<13	PASS
		1	24	5.59	<13	PASS
		12	0	4.49	<13	PASS
		12	6	4.93	<13	PASS
		12	13	5.55	<13	PASS
		25	0	5.3	<13	PASS
	MCH	1	0	4.75	<13	PASS
		1	12	5.48	<13	PASS
		1	24	5.51	<13	PASS
		12	0	5.66	<13	PASS
		12	6	5.83	<13	PASS

		12	13	6.12	<13	PASS
		25	0	5.92	<13	PASS
	HCH	1	0	5.84	<13	PASS
		1	12	5.75	<13	PASS
		1	24	5.41	<13	PASS
		12	0	5.91	<13	PASS
		12	6	5.67	<13	PASS
		12	13	5.69	<13	PASS
		25	0	5.99	<13	PASS

Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio	Limit	Verdict
		Size	Offset	[dB]	[dB]	
QPSK	LCH	1	0	3.34	<13	PASS
		1	24	5	<13	PASS
		1	49	4.76	<13	PASS
		25	0	4.38	<13	PASS
		25	12	5.13	<13	PASS
		25	25	5.19	<13	PASS
		50	0	5.24	<13	PASS
	MCH	1	0	3.31	<13	PASS
		1	24	4.96	<13	PASS
		1	49	4.74	<13	PASS
		25	0	4.38	<13	PASS
		25	12	5.12	<13	PASS
		25	25	5.19	<13	PASS
		50	0	5.22	<13	PASS
	HCH	1	0	3.32	<13	PASS
		1	24	5.02	<13	PASS
		1	49	4.79	<13	PASS
		25	0	4.4	<13	PASS
		25	12	5.1	<13	PASS
		25	25	5.21	<13	PASS
		50	0	5.23	<13	PASS
16QAM	LCH	1	0	4.1	<13	PASS
		1	24	5.9	<13	PASS
		1	49	5.59	<13	PASS
		25	0	5.22	<13	PASS
		25	12	5.9	<13	PASS
		25	25	5.9	<13	PASS

		50	0	5.9	<13	PASS
	MCH	1	0	4.08	<13	PASS
		1	24	5.85	<13	PASS
		1	49	5.65	<13	PASS
		25	0	5.2	<13	PASS
		25	12	5.92	<13	PASS
		25	25	5.92	<13	PASS
		50	0	5.87	<13	PASS
	HCH	1	0	4.11	<13	PASS
		1	24	6.02	<13	PASS
		1	49	5.61	<13	PASS
		25	0	5.19	<13	PASS
		25	12	5.91	<13	PASS
		25	25	5.95	<13	PASS
		50	0	5.89	<13	PASS

Test Graphs

Channel Bandwidth: 5 MHz
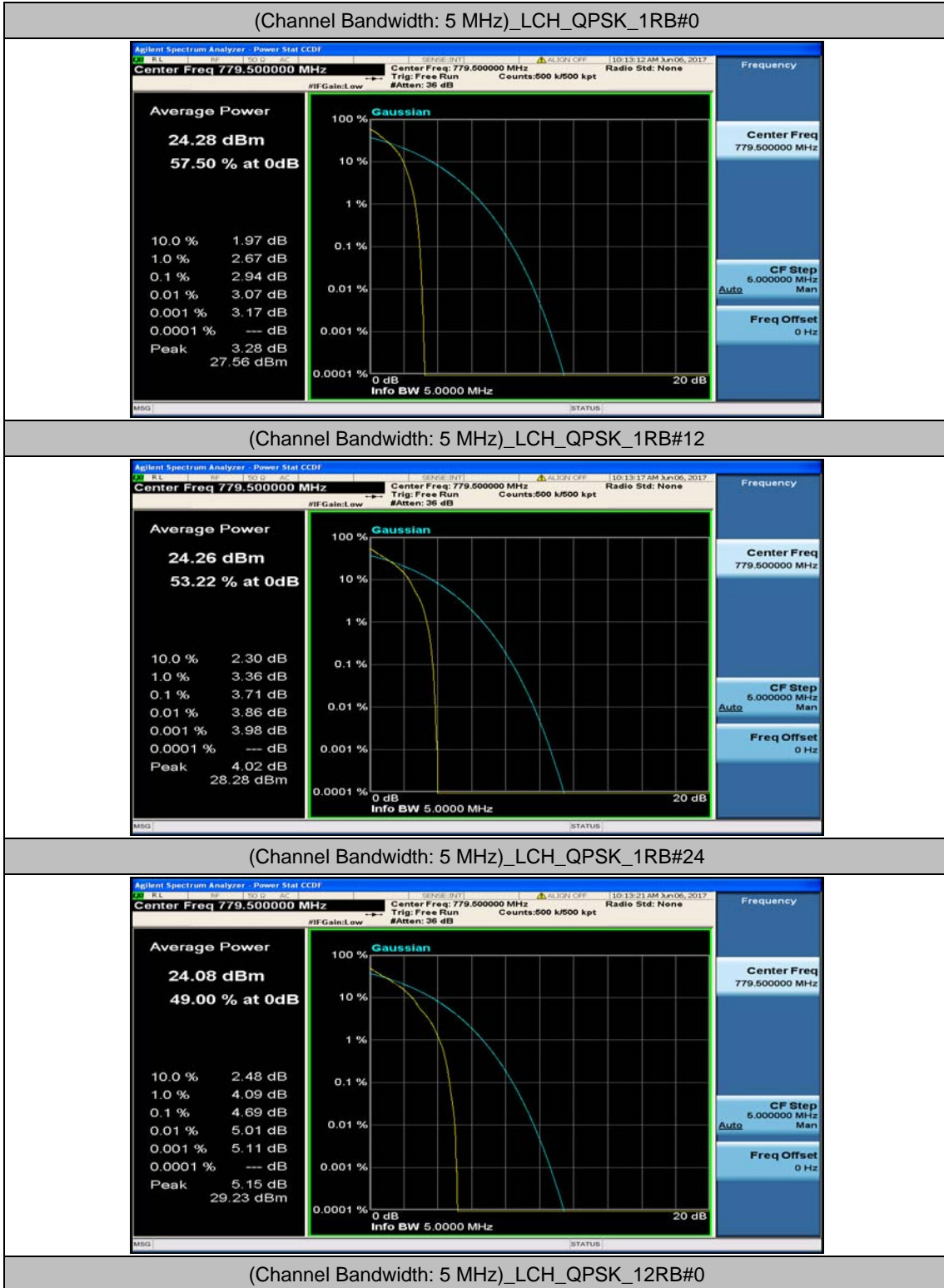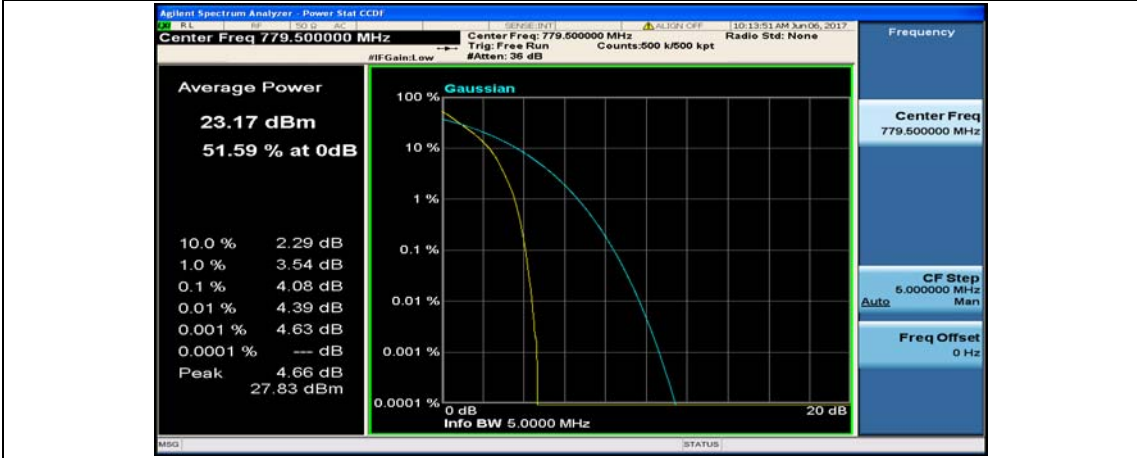
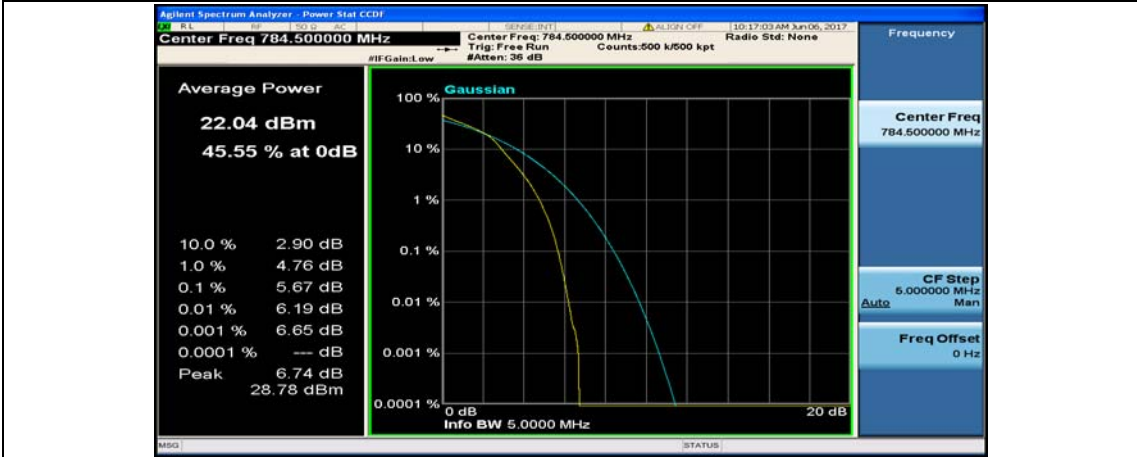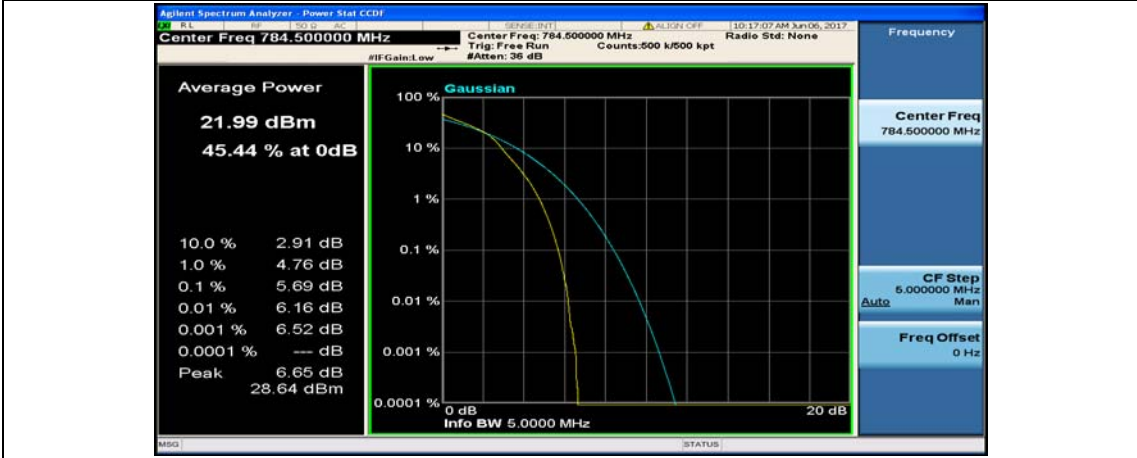| (Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#0 |
|---|
| |
| (Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#12 |
| |
| (Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#24 |
| |
| (Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#0 |

(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#6
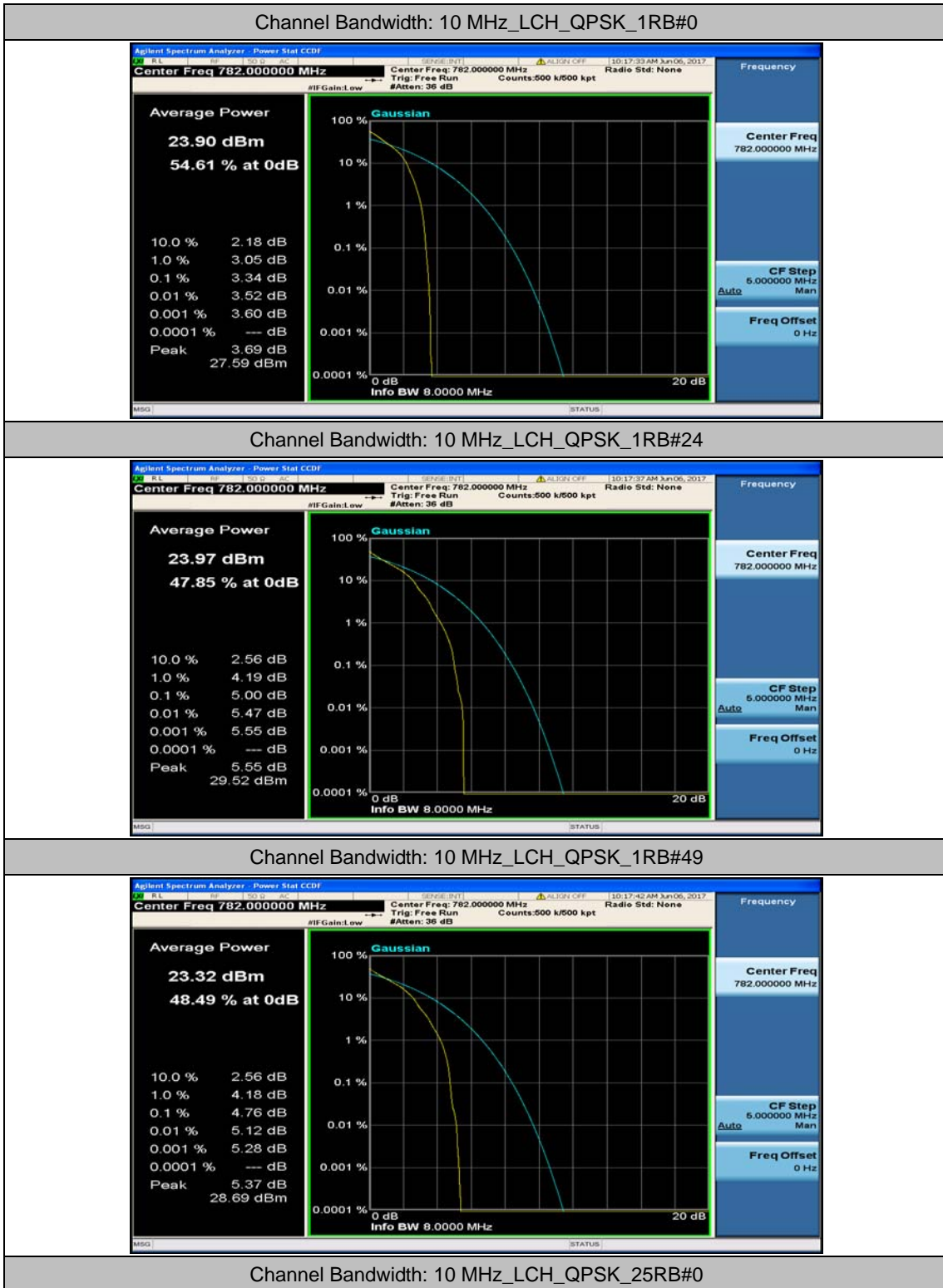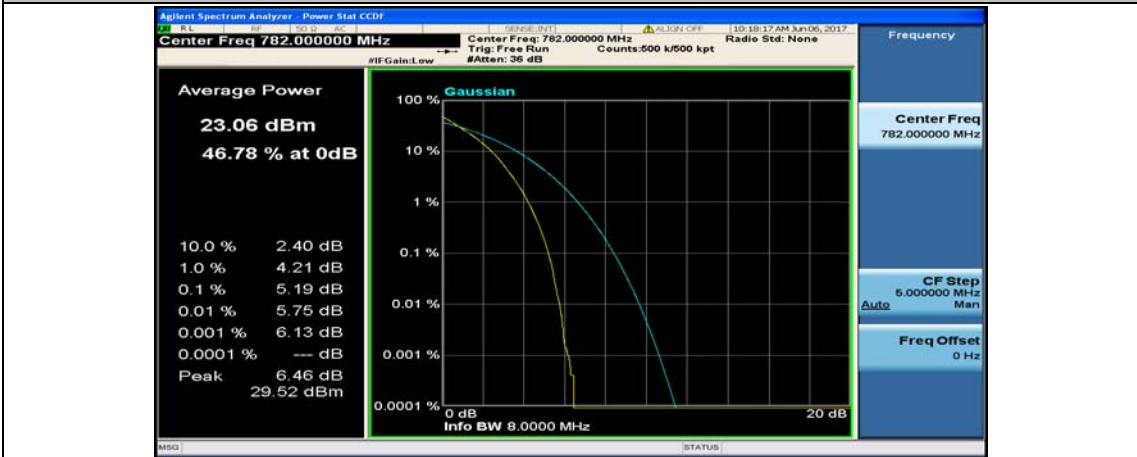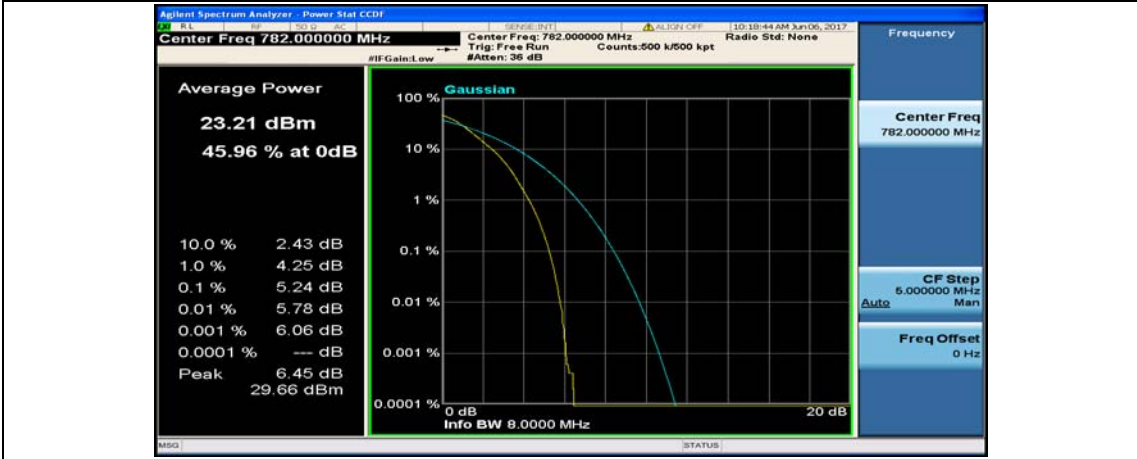

(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#13
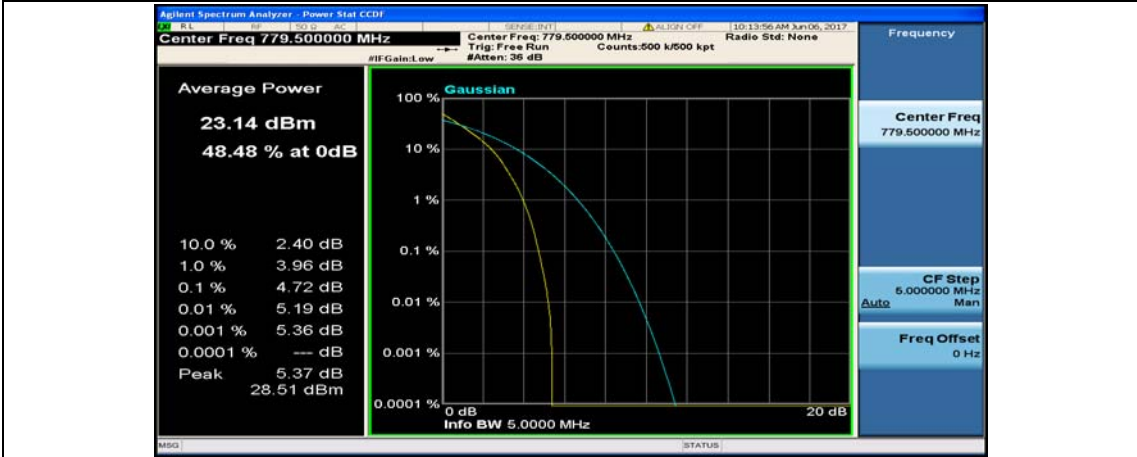
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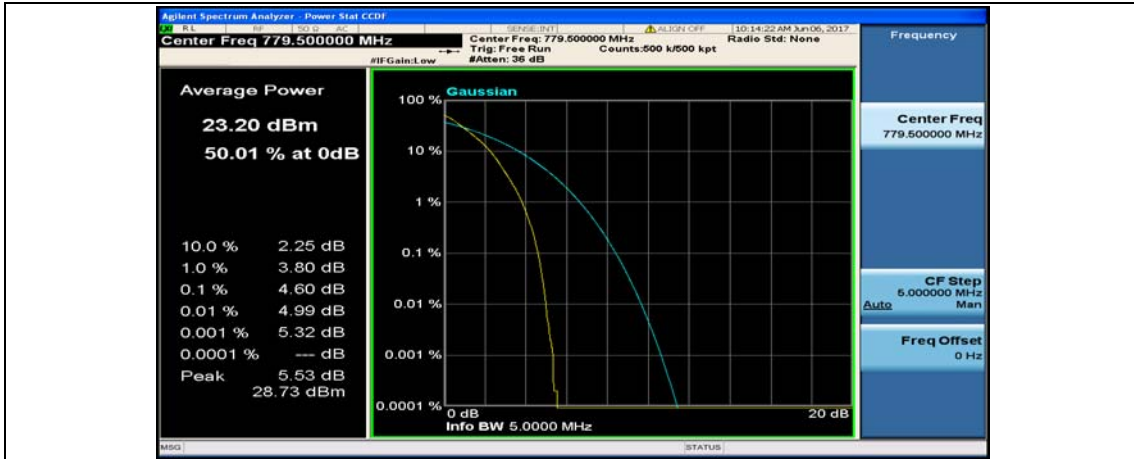
(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#0
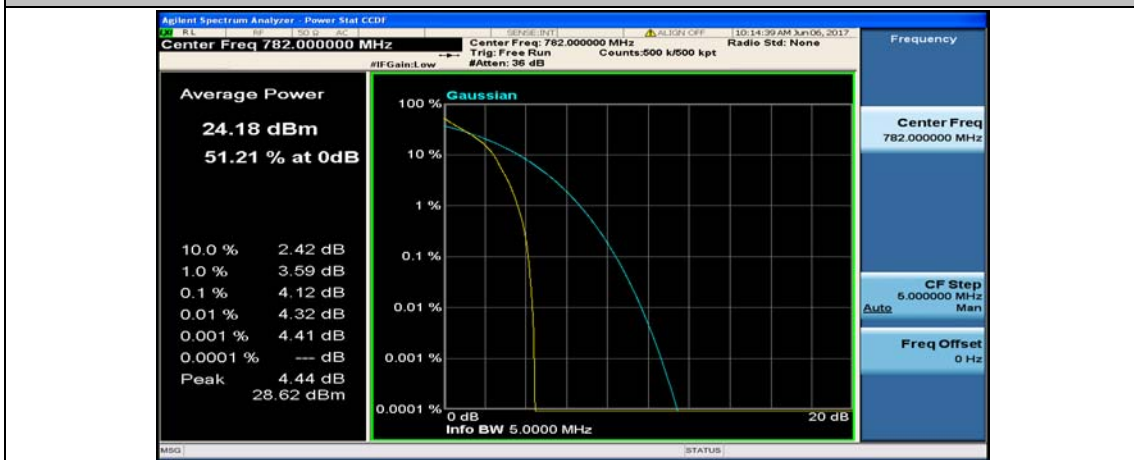
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(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#24

(Channel Bandwidth: 5 MHz)_MCH_QPSK_12RB#0

(Channel Bandwidth: 5 MHz)_MCH_QPSK_12RB#6

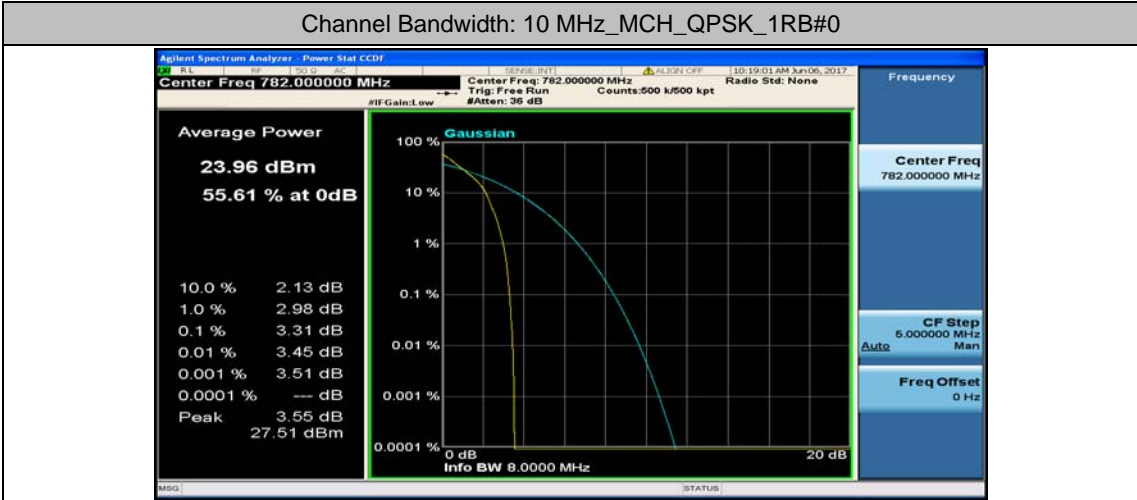(Channel Bandwidth: 5 MHz)_MCH_QPSK_12RB#13

(Channel Bandwidth: 5 MHz)_MCH_QPSK_25RB#0

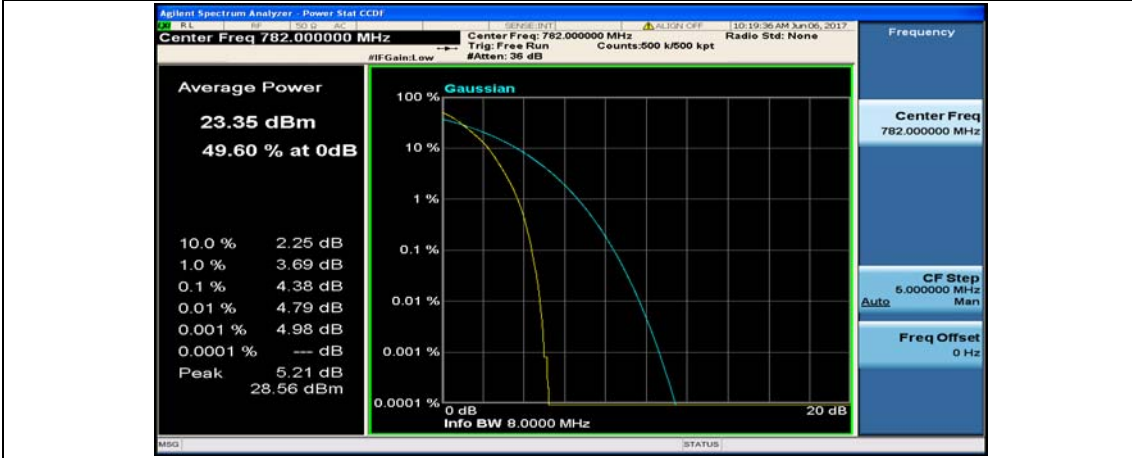(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#0

(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#12

(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#24
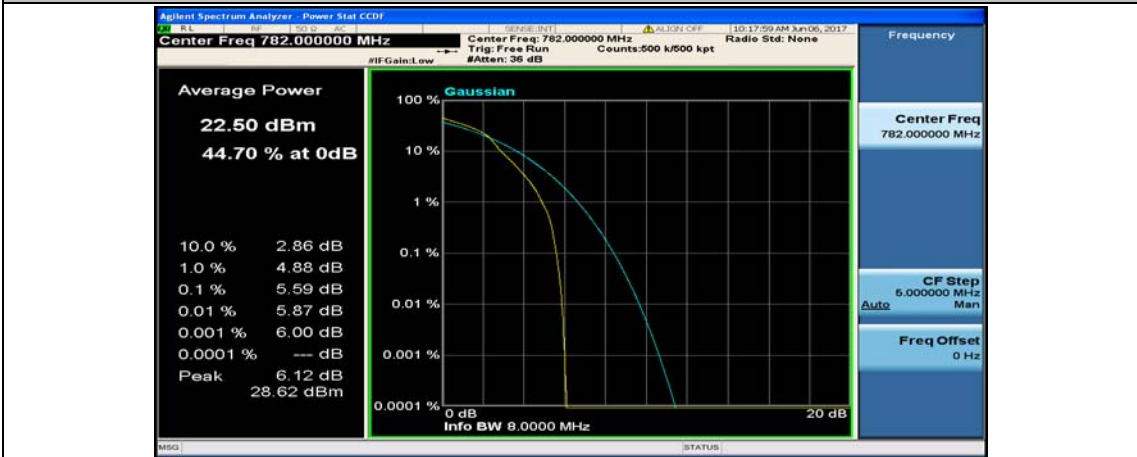

(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#0

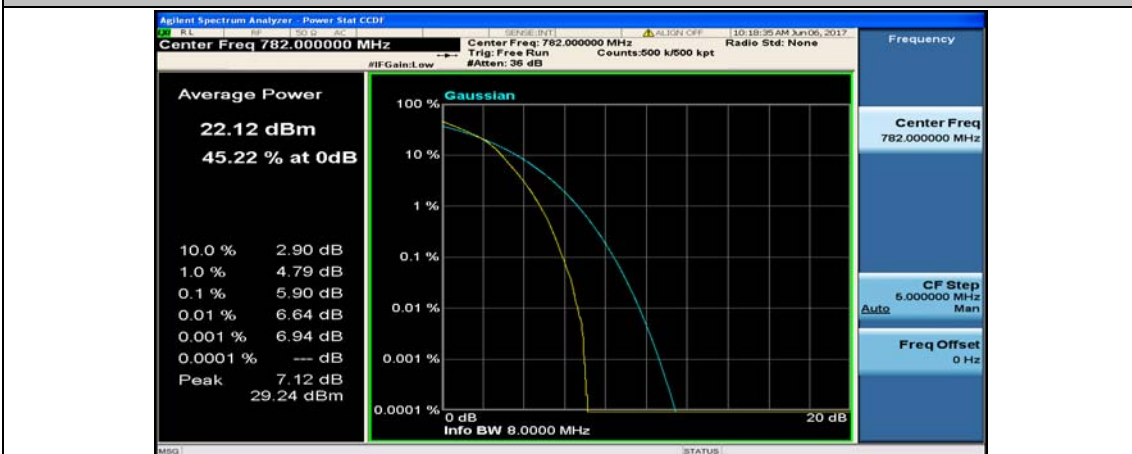(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#6

(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#13
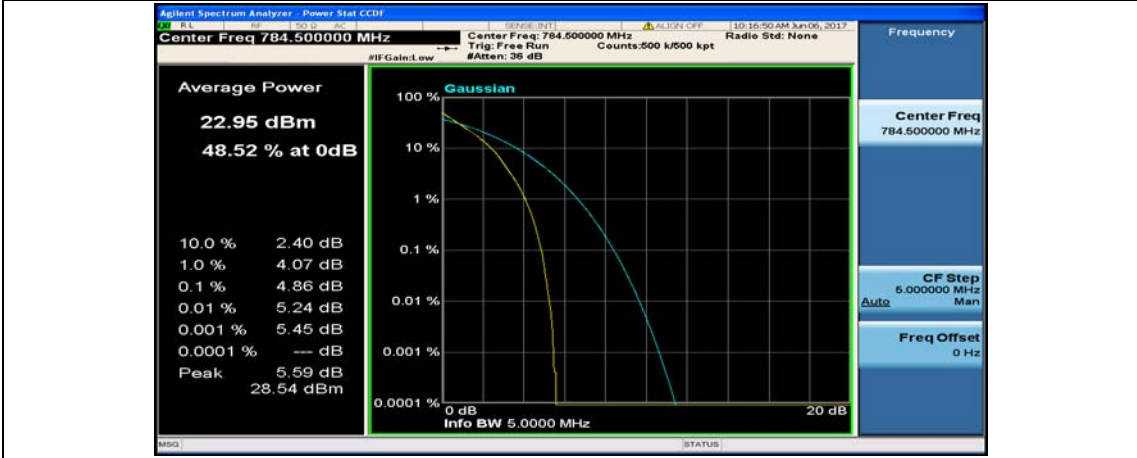
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(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#0

(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
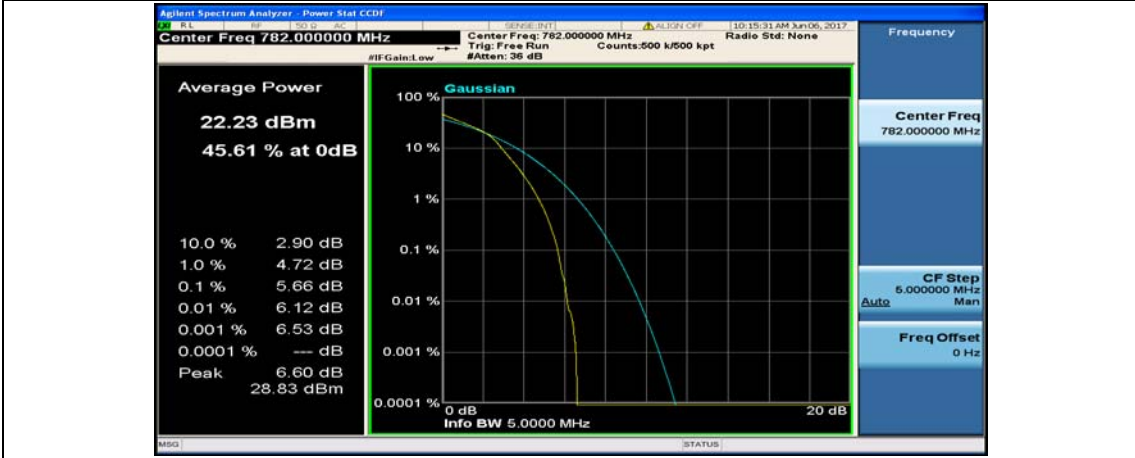
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(Channel Bandwidth: 5 MHz)_MCH_16QAM_12RB#13

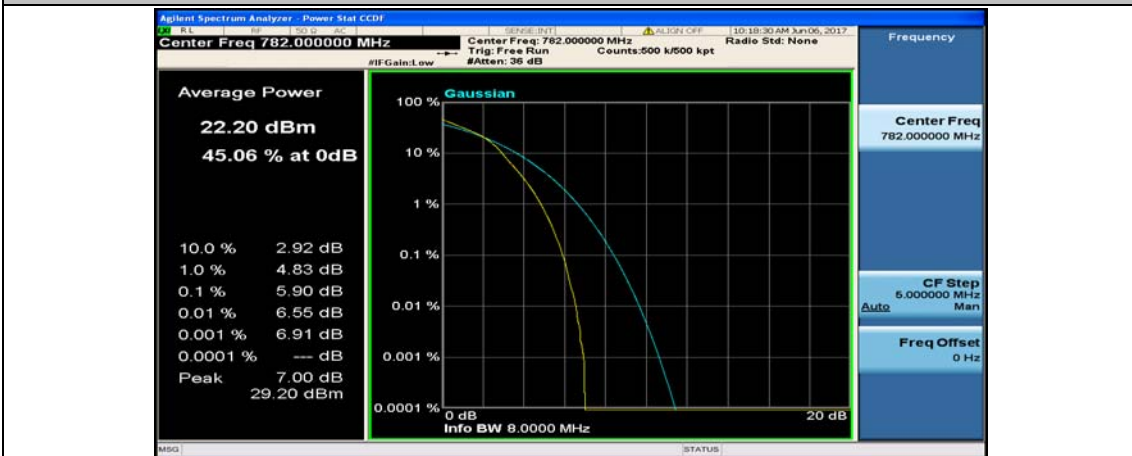(Channel Bandwidth: 5 MHz)_MCH_16QAM_25RB#0
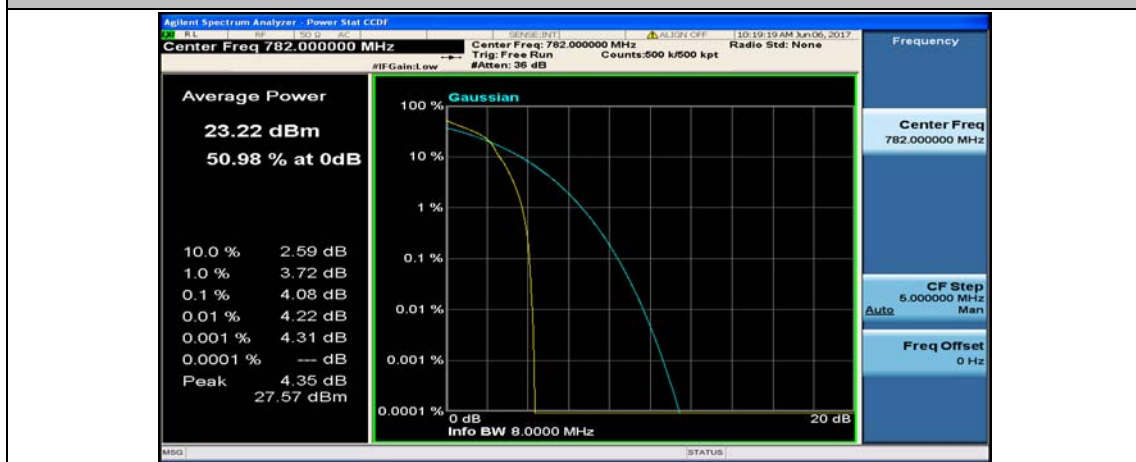

(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#0

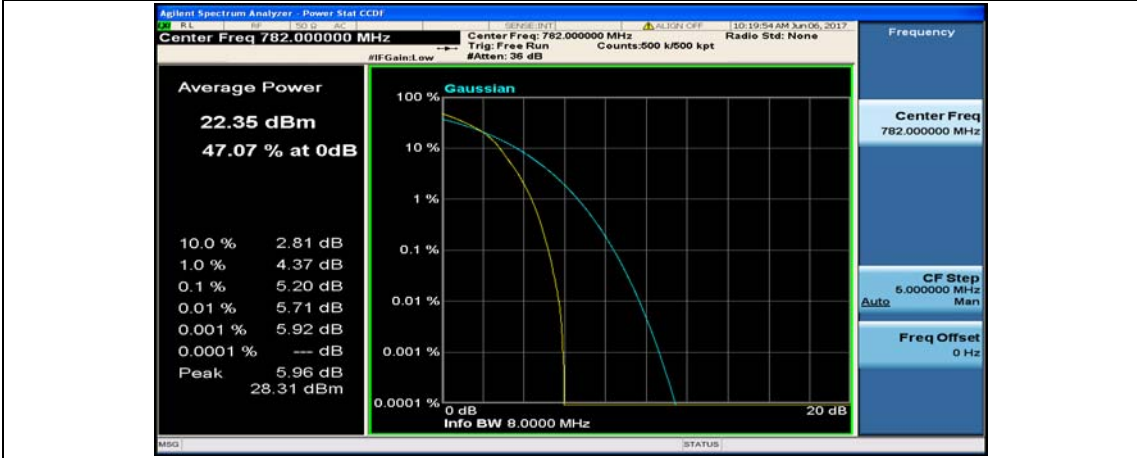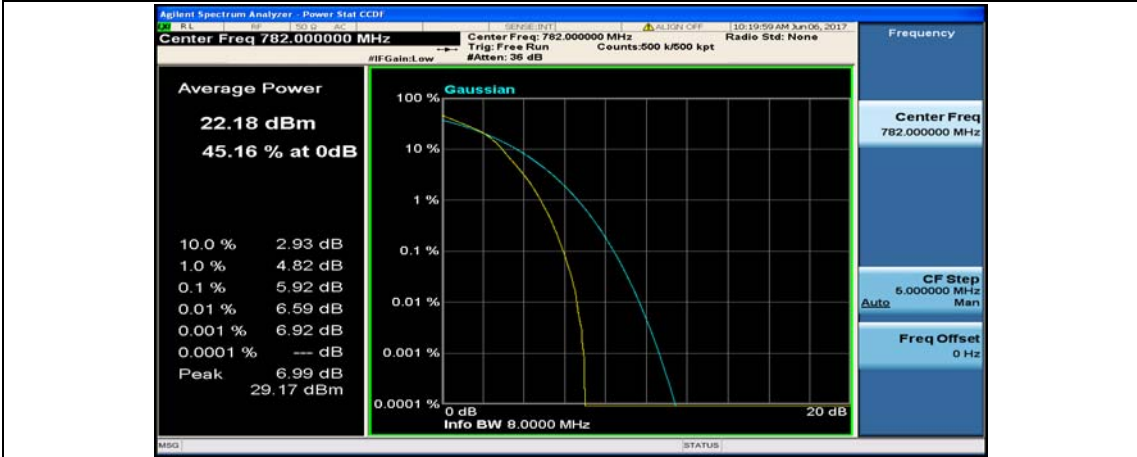(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#12

(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#24

(Channel Bandwidth: 5 MHz)_HCH_16QAM_12RB#0

(Channel Bandwidth: 5 MHz)_HCH_16QAM_12RB#6

(Channel Bandwidth: 5 MHz)_HCH_16QAM_12RB#13

(Channel Bandwidth: 5 MHz)_HCH_16QAM_25RB#0

Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#0
Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#24
Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#49
Channel Bandwidth: 10 MHz_LCH_QPSK_25RB#0
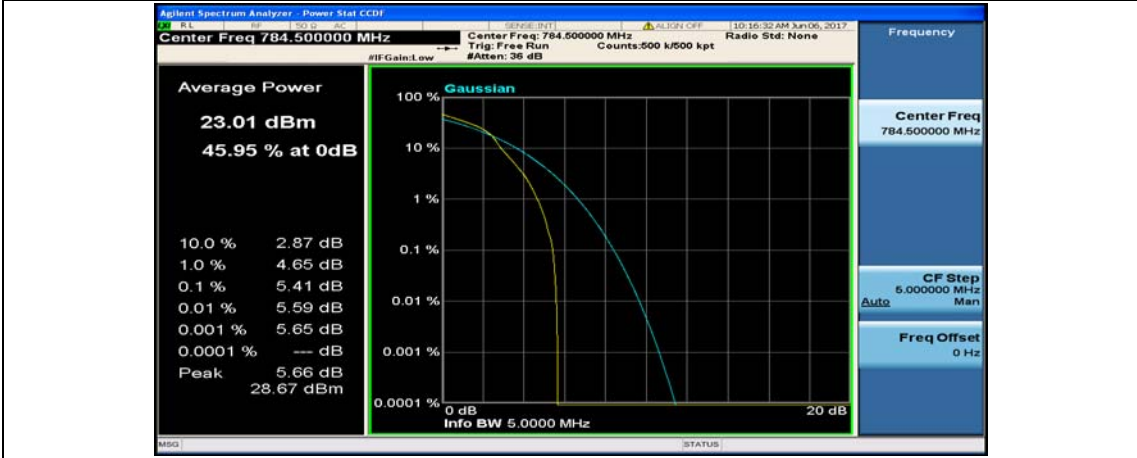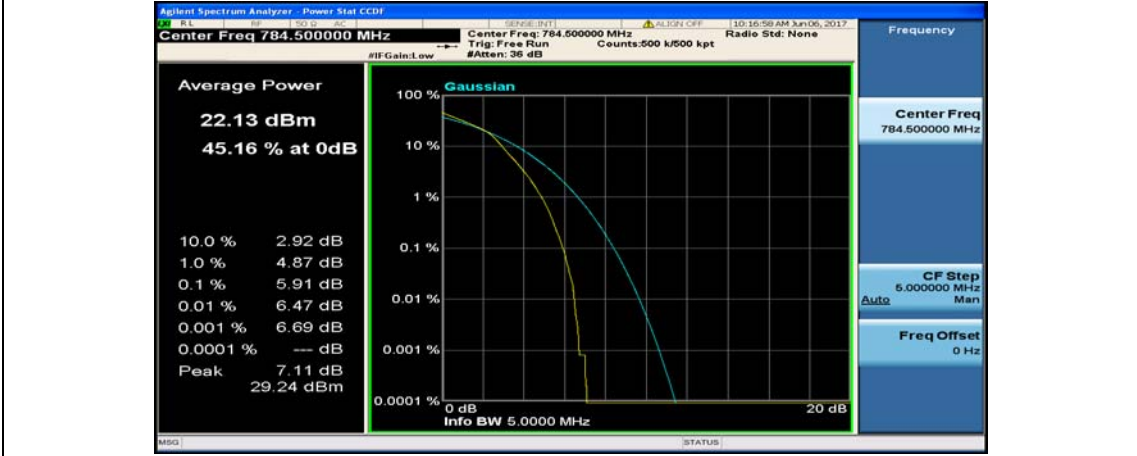
Channel Bandwidth: 10 MHz_LCH_QPSK_25RB#12

Channel Bandwidth: 10 MHz_LCH_QPSK_25RB#25

Channel Bandwidth: 10 MHz_LCH_QPSK_50RB#0
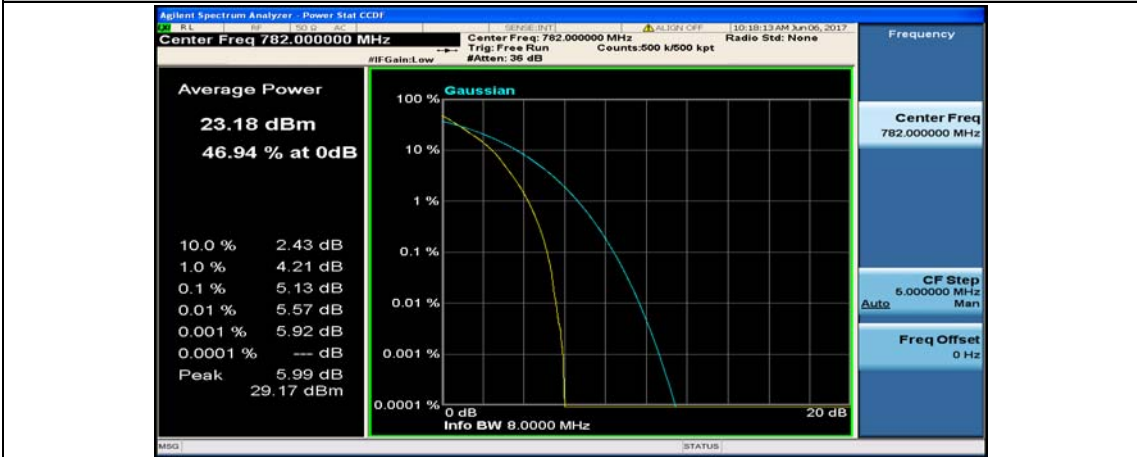
Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#0

Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#24

Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#49

Channel Bandwidth: 10 MHz_MCH_QPSK_25RB#0

Channel Bandwidth: 10 MHz_MCH_QPSK_25RB#12

Channel Bandwidth: 10 MHz_MCH_QPSK_25RB#25

Channel Bandwidth: 10 MHz_MCH_QPSK_50RB#0

Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#0

Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#24

Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#49

Channel Bandwidth: 10 MHz_HCH_QPSK_25RB#0

Channel Bandwidth: 10 MHz_HCH_QPSK_25RB#12

Channel Bandwidth: 10 MHz_HCH_QPSK_25RB#25

Channel Bandwidth: 10 MHz_HCH_QPSK_50RB#0

Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#0

Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#24

Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#49

Channel Bandwidth: 10 MHz_LCH_16QAM_25RB#0

Channel Bandwidth: 10 MHz_LCH_16QAM_25RB#12

Channel Bandwidth: 10 MHz_LCH_16QAM_25RB#25

Channel Bandwidth: 10 MHz_LCH_16QAM_50RB#0

Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#0

Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#24

Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#49

Channel Bandwidth: 10 MHz_MCH_16QAM_25RB#0

Channel Bandwidth: 10 MHz_MCH_16QAM_25RB#12

Channel Bandwidth: 10 MHz_MCH_16QAM_25RB#25

Channel Bandwidth: 10 MHz_MCH_16QAM_50RB#0

Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#0
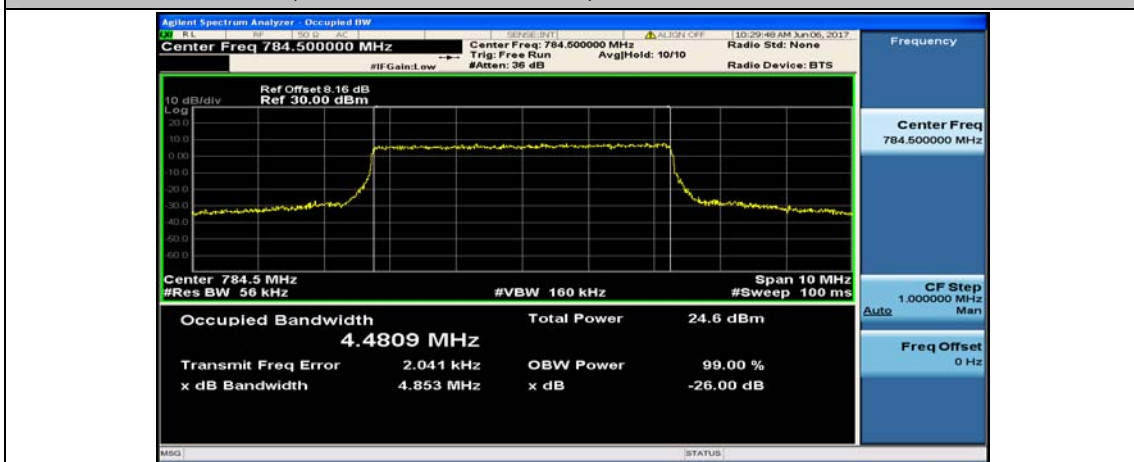

Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#24

Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#49

Channel Bandwidth: 10 MHz_HCH_16QAM_25RB#0

Channel Bandwidth: 10 MHz_HCH_16QAM_25RB#12

Channel Bandwidth: 10 MHz_HCH_16QAM_25RB#25

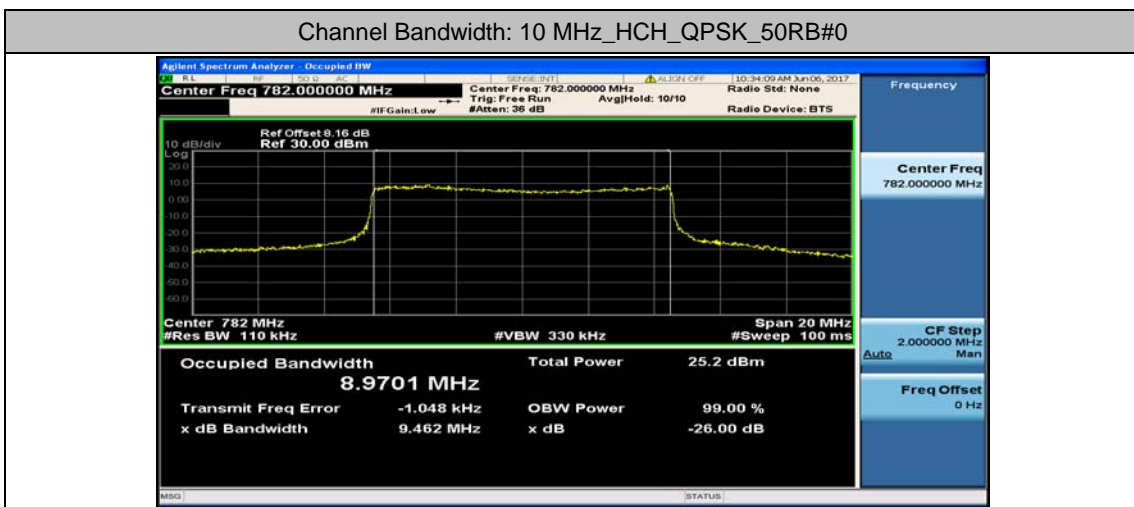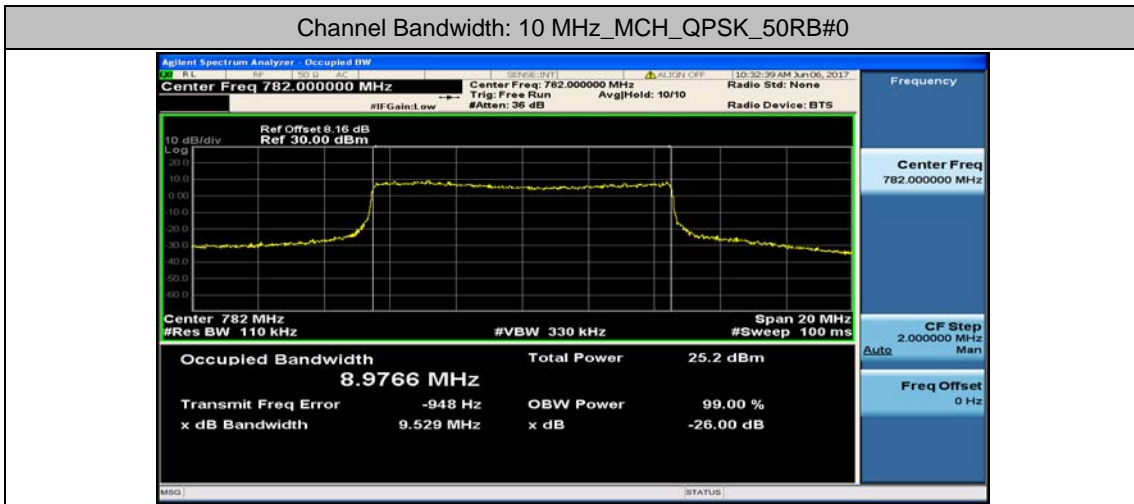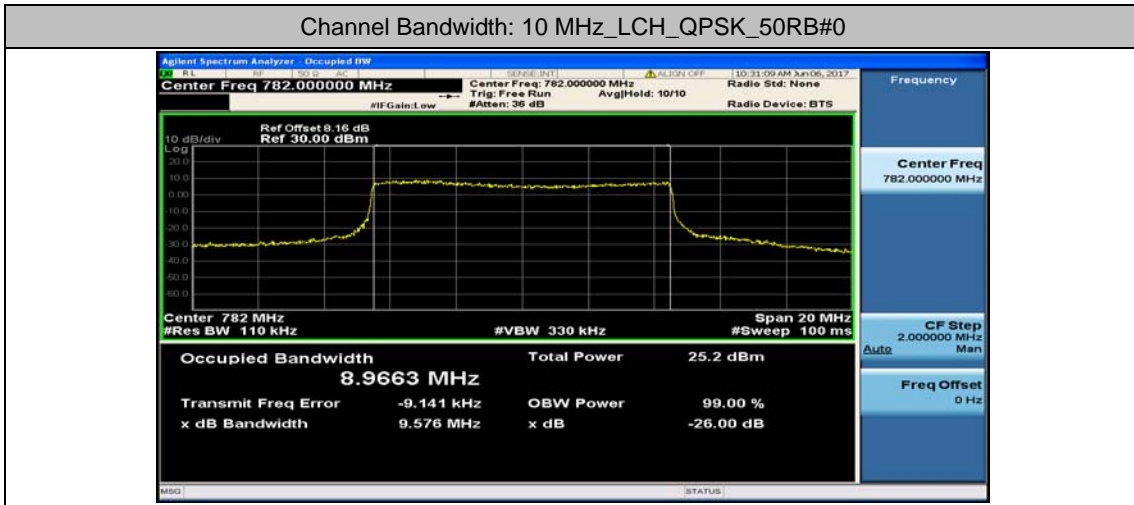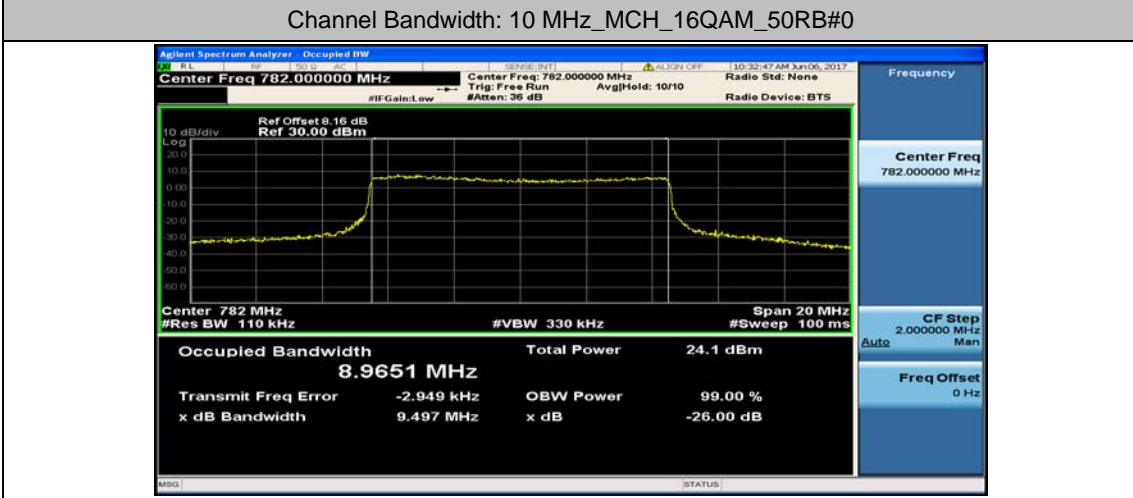**Channel Bandwidth: 10 MHz_HCH_16QAM_50RB#0**
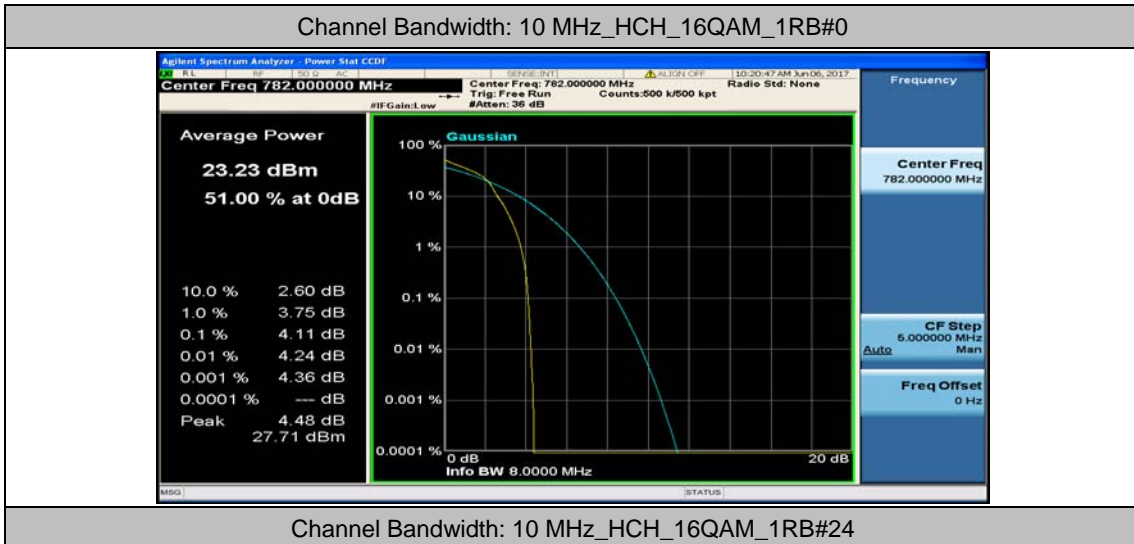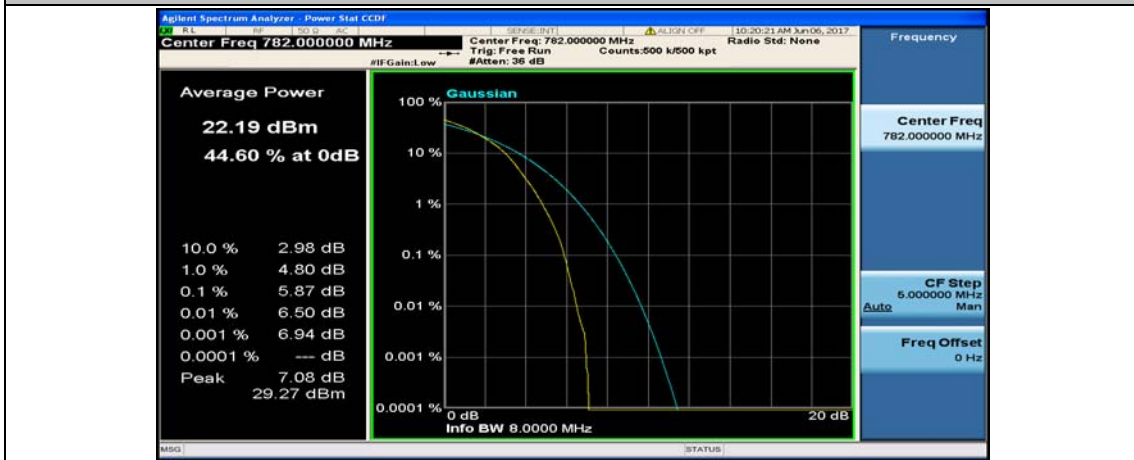
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth	26dB Bandwidth	Verdict
		Size	Offset	(MHz)	(MHz)	
QPSK	LCH	25	0	4.4696	4.799	PASS
	MCH	25	0	4.4739	4.824	PASS
	HCH	25	0	4.4787	4.871	PASS
16QAM	LCH	25	0	4.4497	4.896	PASS
	MCH	25	0	4.4805	4.793	PASS
	HCH	25	0	4.4809	4.853	PASS

Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth	26dB Bandwidth	Verdict
		Size	Offset	(MHz)	(MHz)	
QPSK	LCH	50	0	8.9663	9.576	PASS
	MCH	50	0	8.9766	9.529	PASS
	HCH	50	0	8.9701	9.462	PASS
16QAM	LCH	50	0	8.9615	9.450	PASS
	MCH	50	0	8.9651	9.497	PASS
	HCH	50	0	8.9672	9.530	PASS

Test Graphs

Channel Bandwidth: 5 MHz
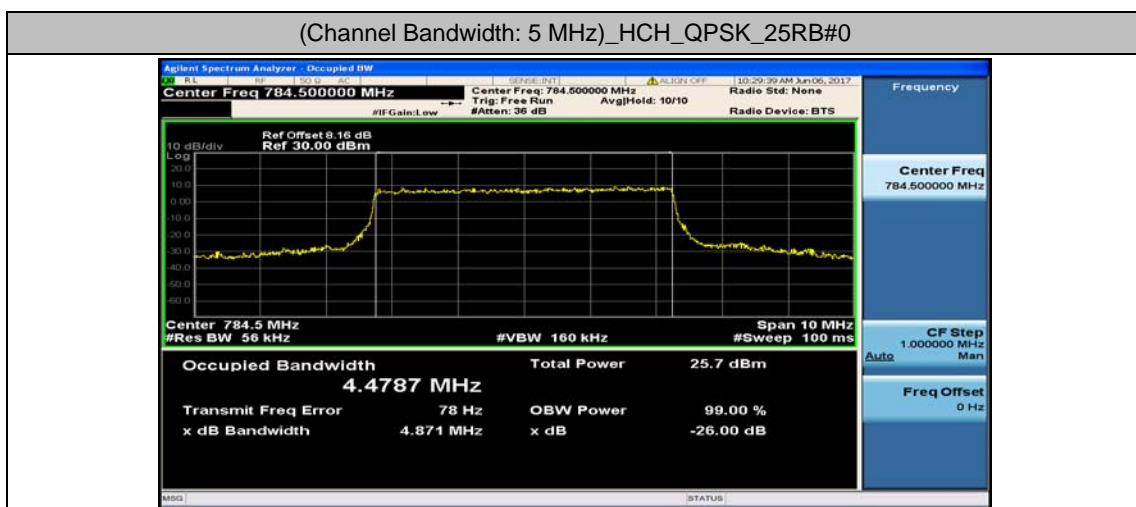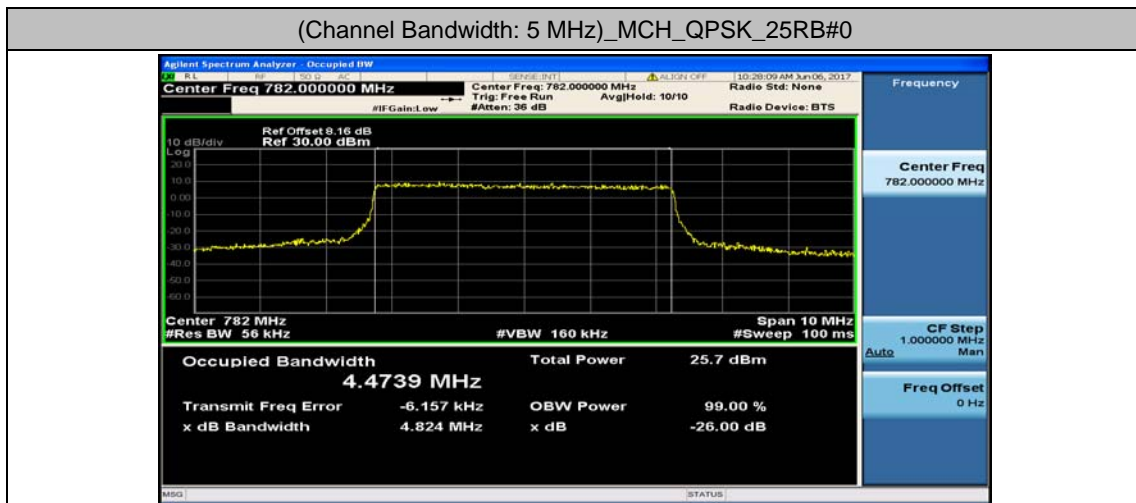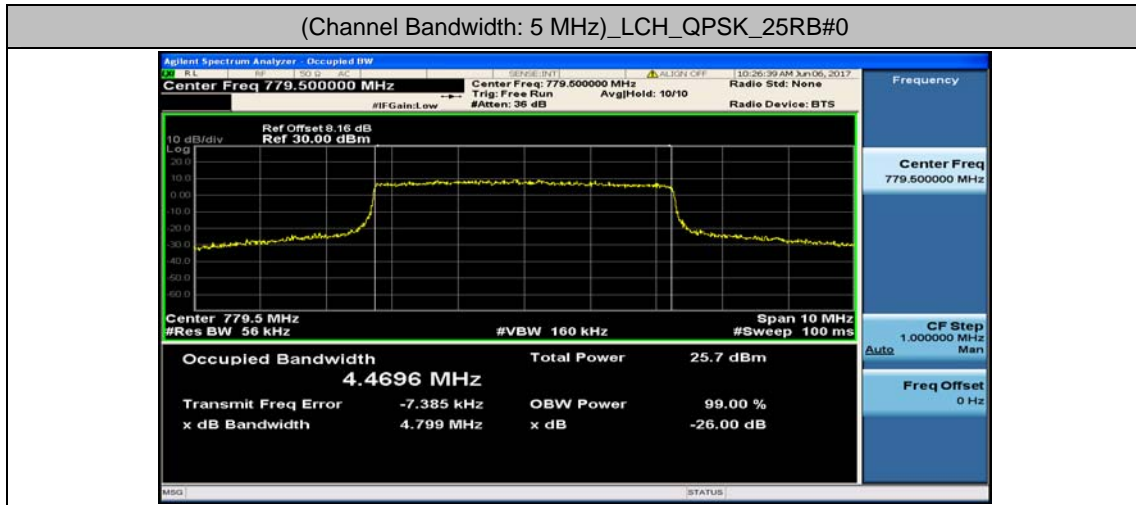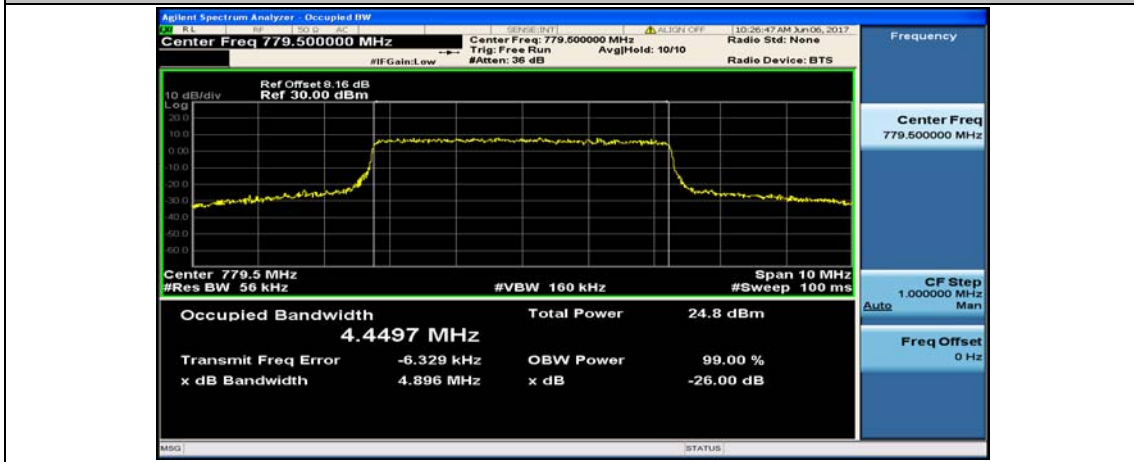
(Channel Bandwidth: 5 MHz)_LCH_QPSK_25RB#0

(Channel Bandwidth: 5 MHz)_MCH_QPSK_25RB#0

(Channel Bandwidth: 5 MHz)_HCH_QPSK_25RB#0

(Channel Bandwidth: 5 MHz)_LCH_16QAM_25RB#0

(Channel Bandwidth: 5 MHz)_MCH_16QAM_25RB#0

(Channel Bandwidth: 5 MHz)_HCH_16QAM_25RB#0

Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz_LCH_QPSK_50RB#0

Channel Bandwidth: 10 MHz_MCH_QPSK_50RB#0
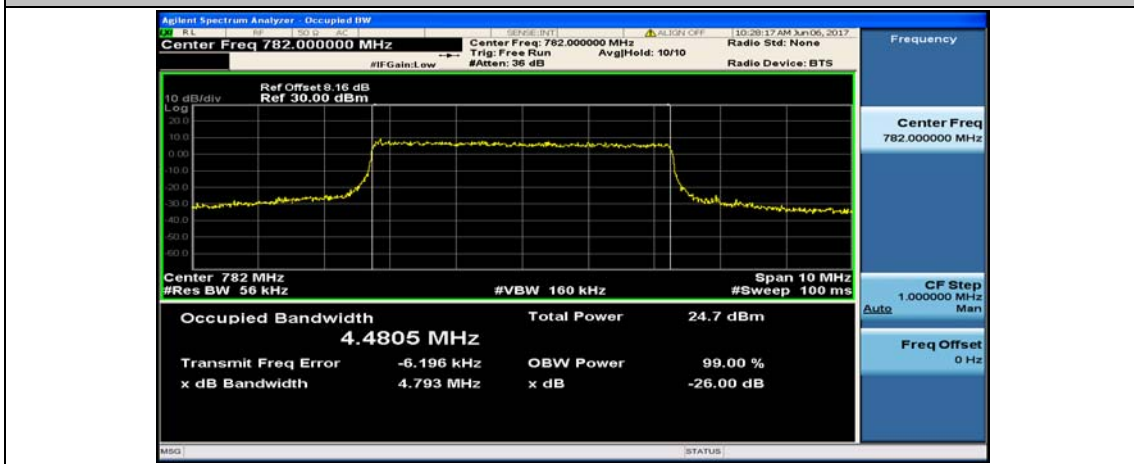
Channel Bandwidth: 10 MHz_HCH_QPSK_50RB#0

Channel Bandwidth: 10 MHz_LCH_16QAM_50RB#0
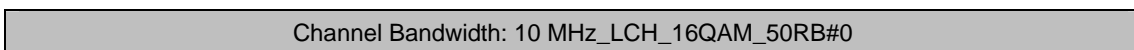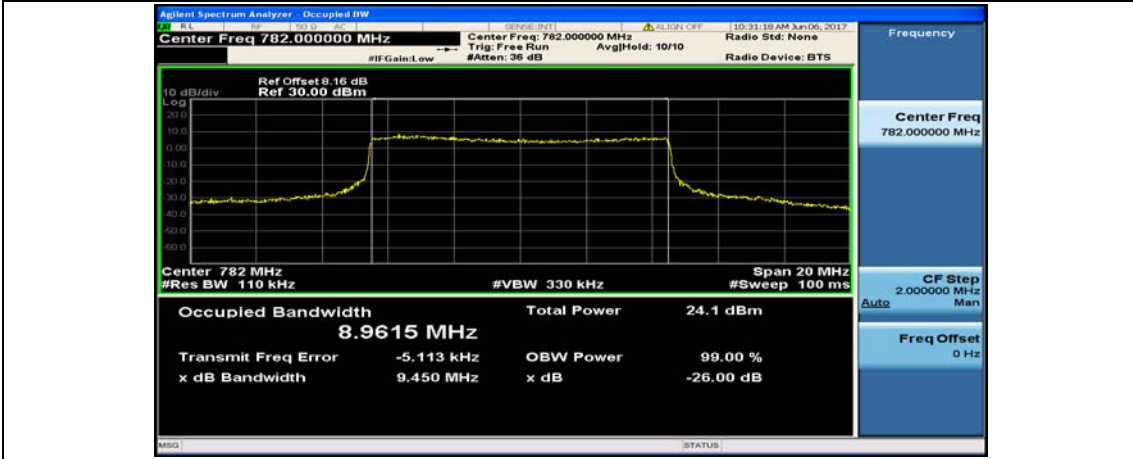
Channel Bandwidth: 10 MHz_MCH_16QAM_50RB#0

Channel Bandwidth: 10 MHz_HCH_16QAM_50RB#0
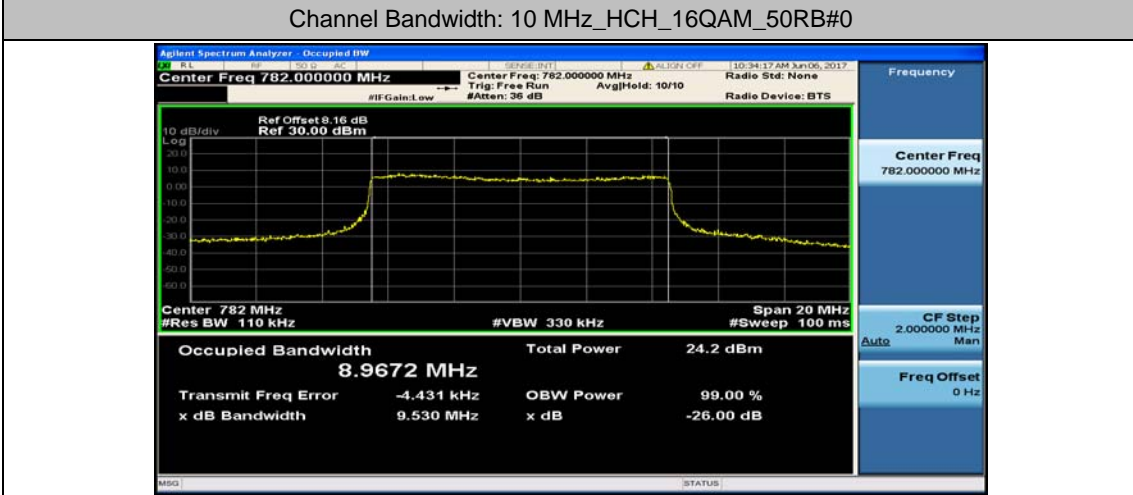
Appendix D: Band Edge

Test Graphs

Channel Bandwidth: 5 MHz

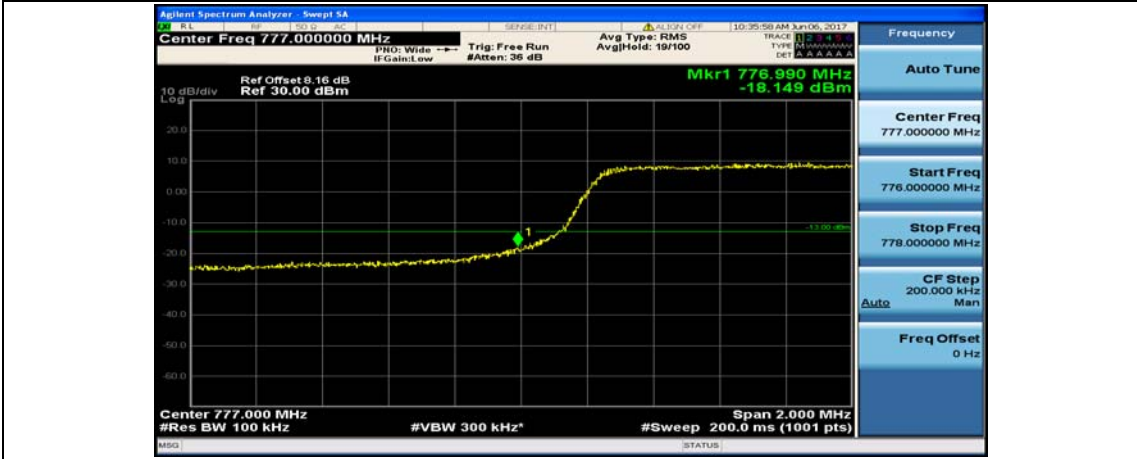| (Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#0 |
|---|
| |
| (Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#12 |
| |
| (Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#24 |
| |
| (Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#0 |

(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)_HCH_QPSK_1RB#0

(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#12

(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#24

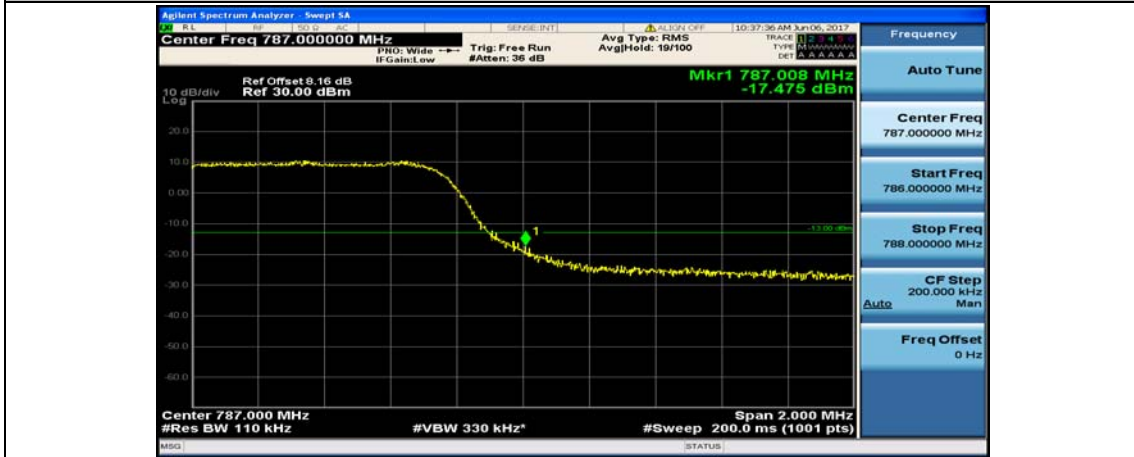(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#0

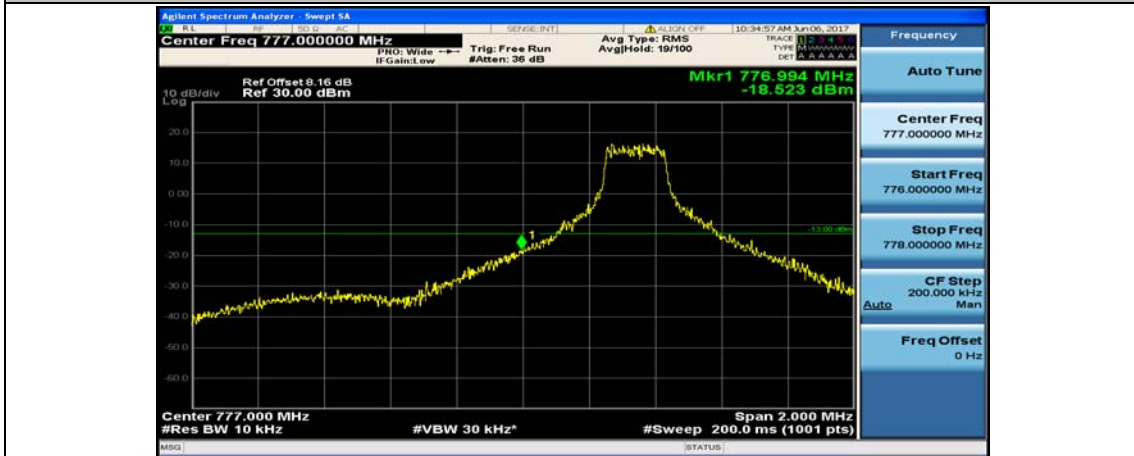(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#6

(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#13

(Channel Bandwidth: 5 MHz)_HCH_QPSK_25RB#0

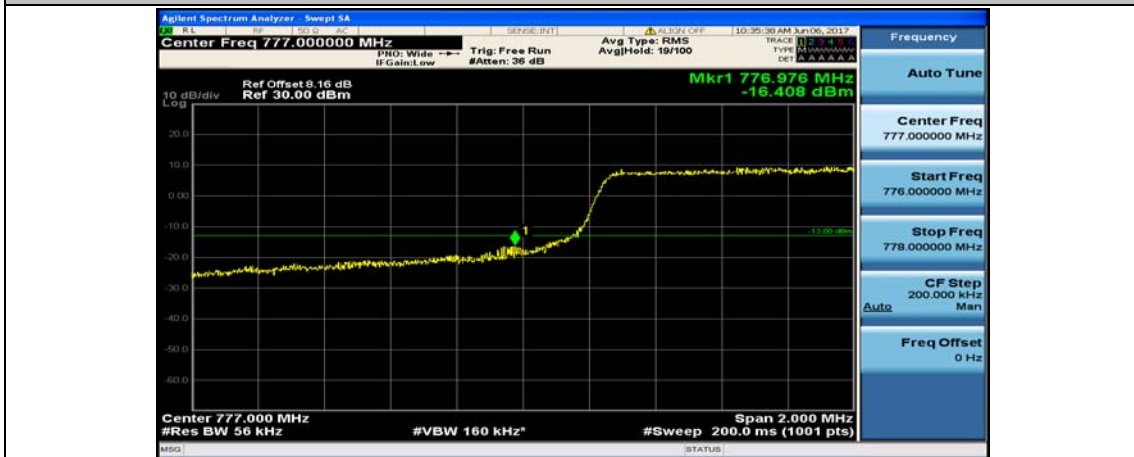(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#0

(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#12

(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#24

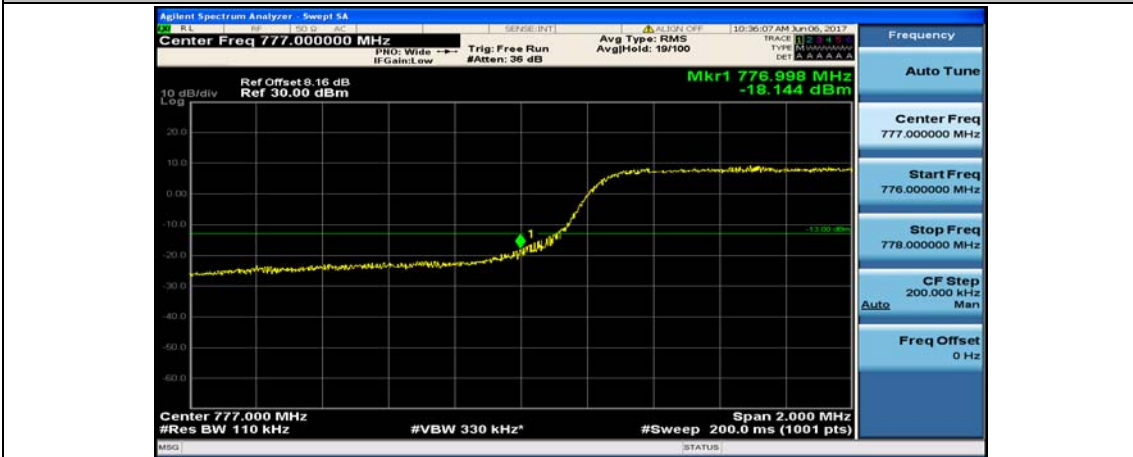(Channel Bandwidth: 5 MHz)_LCH_16QAM_12RB#0

(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)_HCH_16QAM_1RB#0

(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#12

(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#24

(Channel Bandwidth: 5 MHz)_HCH_16QAM_12RB#0
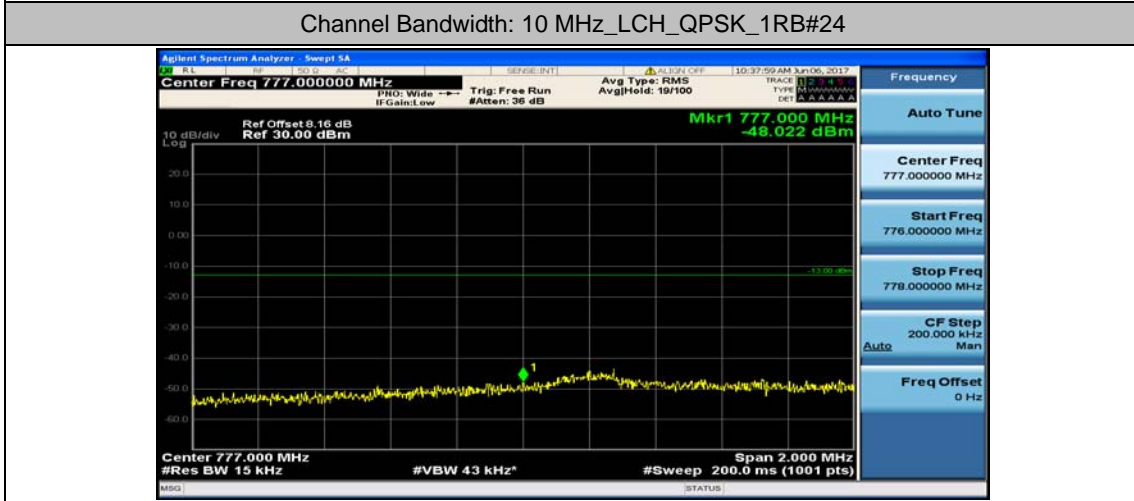
(Channel Bandwidth: 5 MHz)_HCH_16QAM_12RB#6

(Channel Bandwidth: 5 MHz)_HCH_16QAM_12RB#13

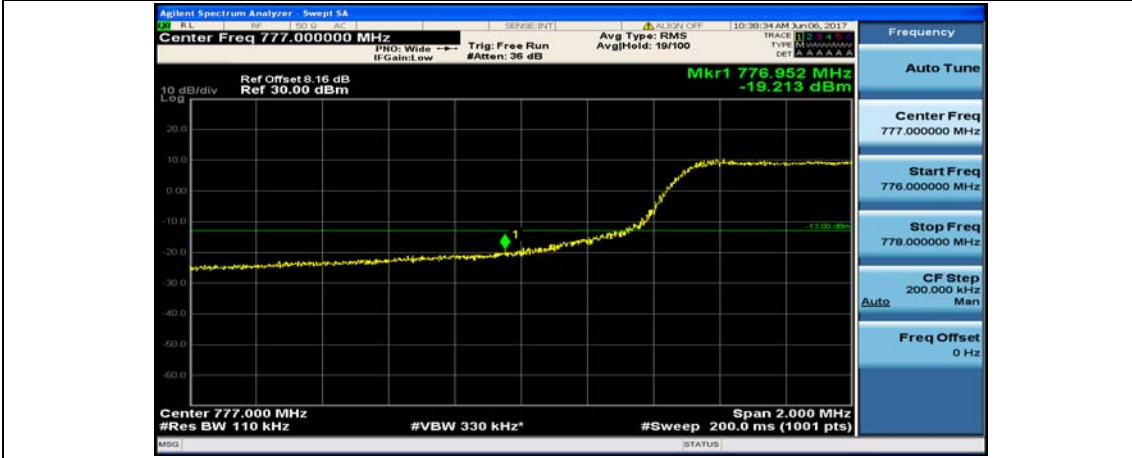(Channel Bandwidth: 5 MHz)_HCH_16QAM_25RB#0

Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#0
Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#24
Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#49

Channel Bandwidth: 10 MHz_LCH_QPSK_25RB#0

Channel Bandwidth: 10 MHz_LCH_QPSK_25RB#12

Channel Bandwidth: 10 MHz_LCH_QPSK_25RB#25