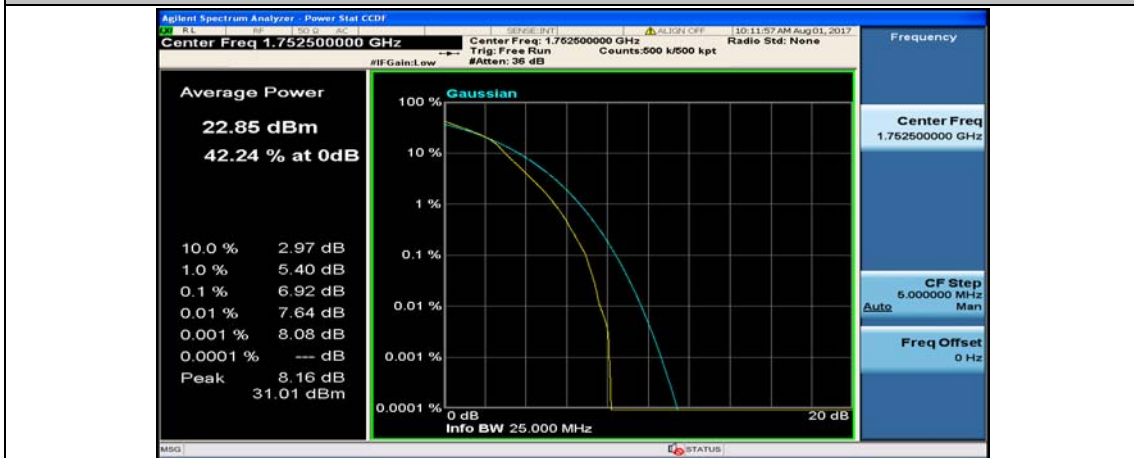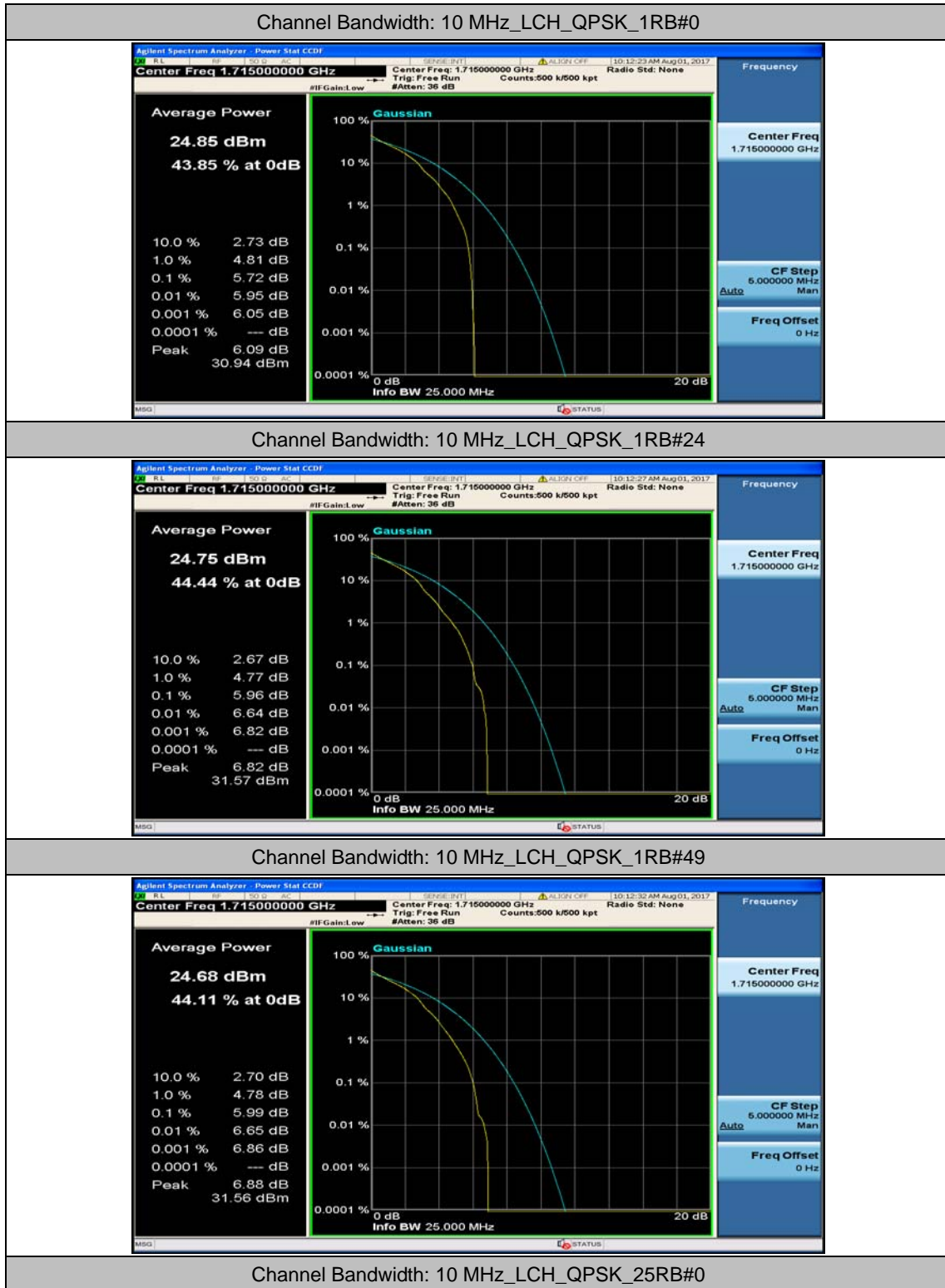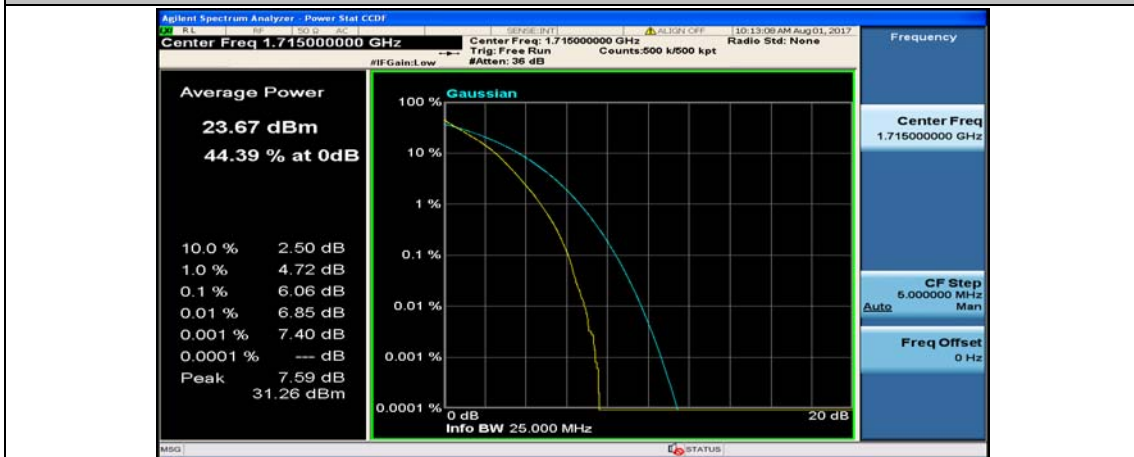(Channel Bandwidth: 5 MHz)_HCH_16QAM_12RB#13
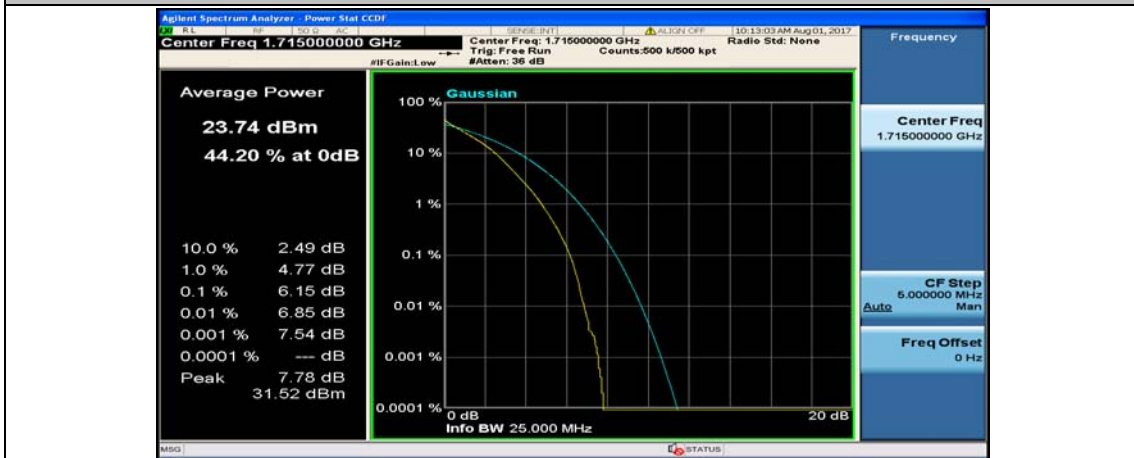

(Channel Bandwidth: 5 MHz)_HCH_16QAM_25RB#0

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
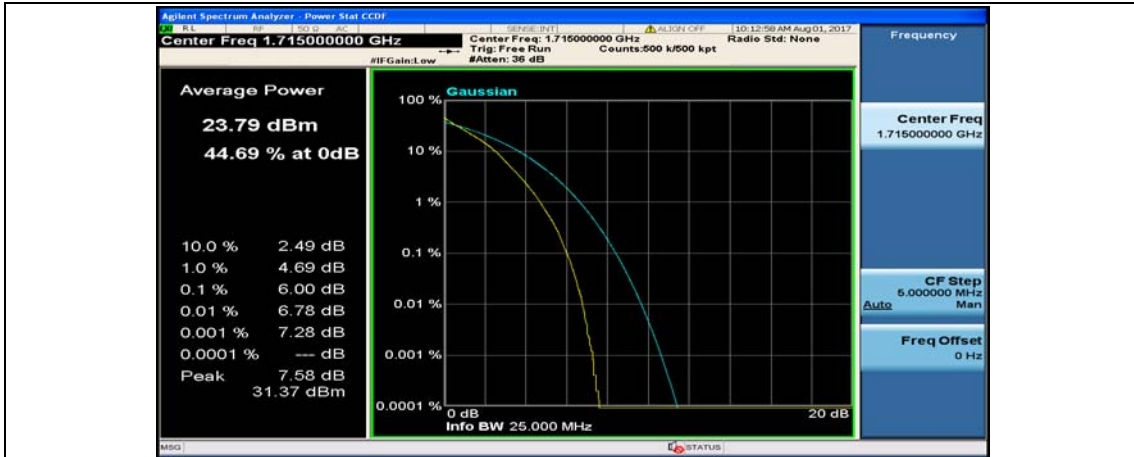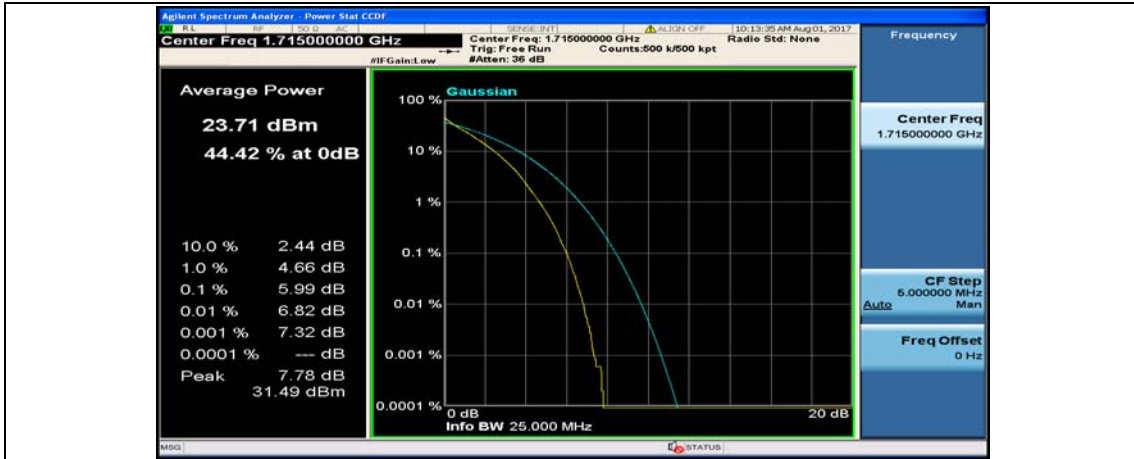
Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#0
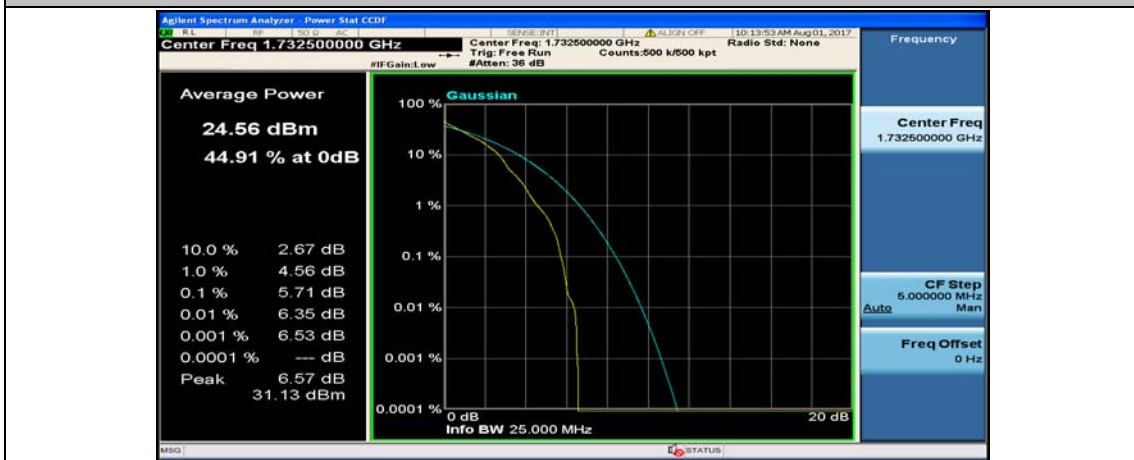
Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#24

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

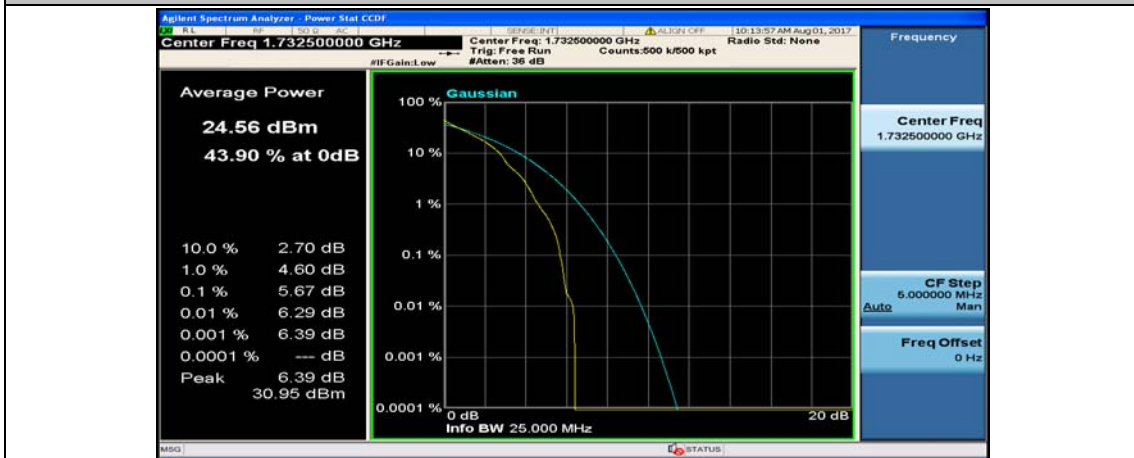| Channel Bandwidth: 10 MHz_MCH_QPSK_50RB#0 |
|---|

Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#0

Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#24

Agilent Spectrum Analyzer - Power Stat CCDF
LXI R L RF 50 Ω AC SENSE:INT ALIGN OFF 10:15:29 AM Aug 01, 2017
Center Freq 1.750000000 GHz
Center Freq: 1.750000000 GHz Trig: Free Run Counts:500 k/500 kpt Radio Std: None
#IFGain:Low #Atten: 36 dB

Frequency

Average Power

24.68 dBm

44.73 % at 0dB

Gaussian
100 %
10 %
1 %
0.1 %
0.01 %
0.001 %
0.0001 %

10.0 %   2.62 dB
1.0 %   4.69 dB
0.1 %   5.46 dB
0.01 %   5.85 dB
0.001 %   5.89 dB
0.0001 %   --- dB
Peak   5.91 dB
           30.59 dBm

0 dB   20 dB
Info BW 25.000 MHz

Center Freq
1.750000000 GHz

CF Step
5.000000 MHz
Auto   Man

Freq Offset
0 Hz

MSG   STATUS

Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#49

Agilent Spectrum Analyzer - Power Stat CCDF
LXI R L RF 50 Ω AC SENSE:INT ALIGN OFF 10:15:33 AM Aug 01, 2017
Center Freq 1.750000000 GHz
Center Freq: 1.750000000 GHz Trig: Free Run Counts:500 k/500 kpt Radio Std: None
#IFGain:Low #Atten: 36 dB

Frequency

Average Power

24.77 dBm

45.64 % at 0dB

Gaussian
100 %
10 %
1 %
0.1 %
0.01 %
0.001 %
0.0001 %

10.0 %   2.64 dB
1.0 %   4.54 dB
0.1 %   5.33 dB
0.01 %   5.70 dB
0.001 %   5.76 dB
0.0001 %   --- dB
Peak   5.78 dB
           30.55 dBm

0 dB   20 dB
Info BW 25.000 MHz

Center Freq
1.750000000 GHz

CF Step
5.000000 MHz
Auto   Man

Freq Offset
0 Hz

MSG   STATUS

Channel Bandwidth: 10 MHz_HCH_QPSK_25RB#0

Agilent Spectrum Analyzer - Power Stat CCDF
LXI R L RF 50 Ω AC SENSE:INT ALIGN OFF 10:16:00 AM Aug 01, 2017
Center Freq 1.750000000 GHz
Center Freq: 1.750000000 GHz Trig: Free Run Counts:500 k/500 kpt Radio Std: None
#IFGain:Low #Atten: 36 dB

Frequency

Average Power

23.63 dBm

44.72 % at 0dB

Gaussian
100 %
10 %
1 %
0.1 %
0.01 %
0.001 %
0.0001 %

10.0 %   2.48 dB
1.0 %   4.72 dB
0.1 %   6.03 dB
0.01 %   6.67 dB
0.001 %   7.07 dB
0.0001 %   --- dB
Peak   7.19 dB
           30.82 dBm

0 dB   20 dB
Info BW 25.000 MHz

Center Freq
1.750000000 GHz

CF Step
5.000000 MHz
Auto   Man

Freq Offset
0 Hz

MSG   STATUS

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

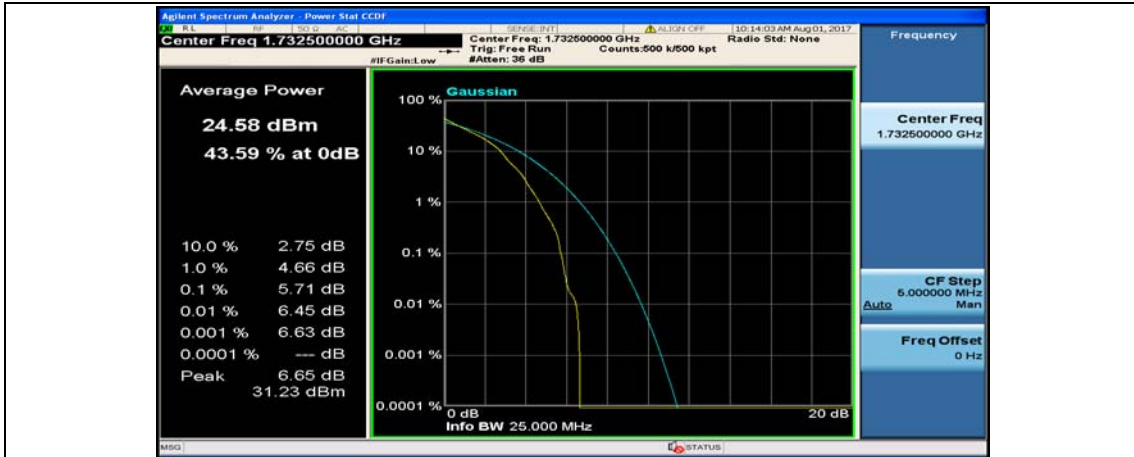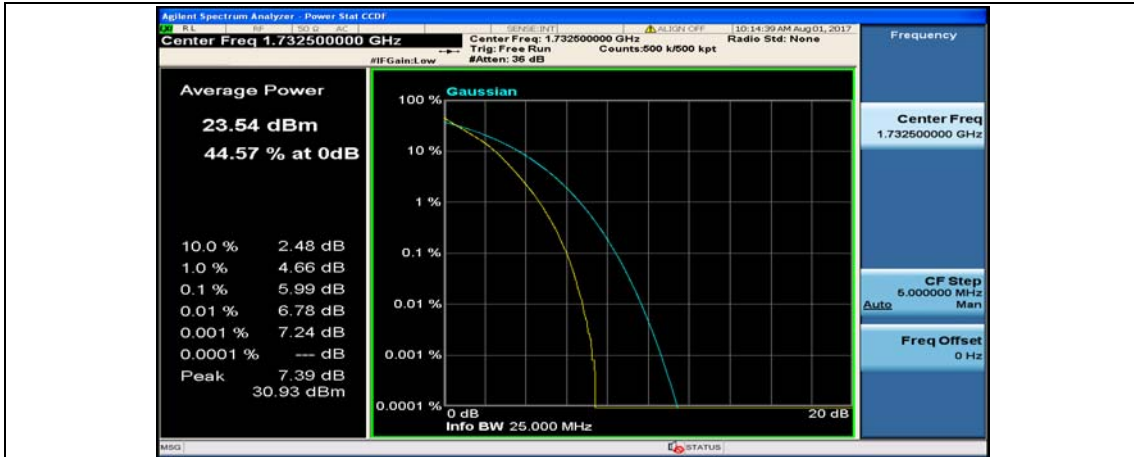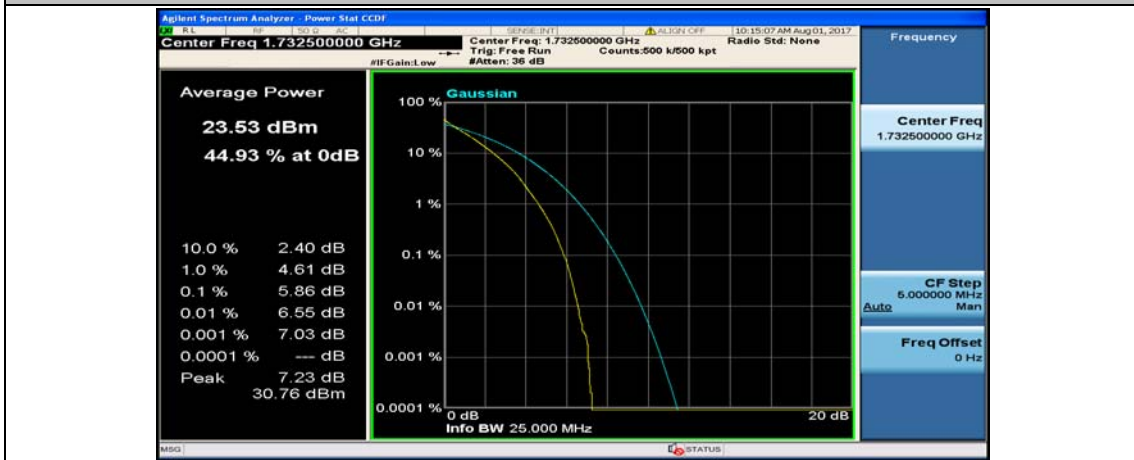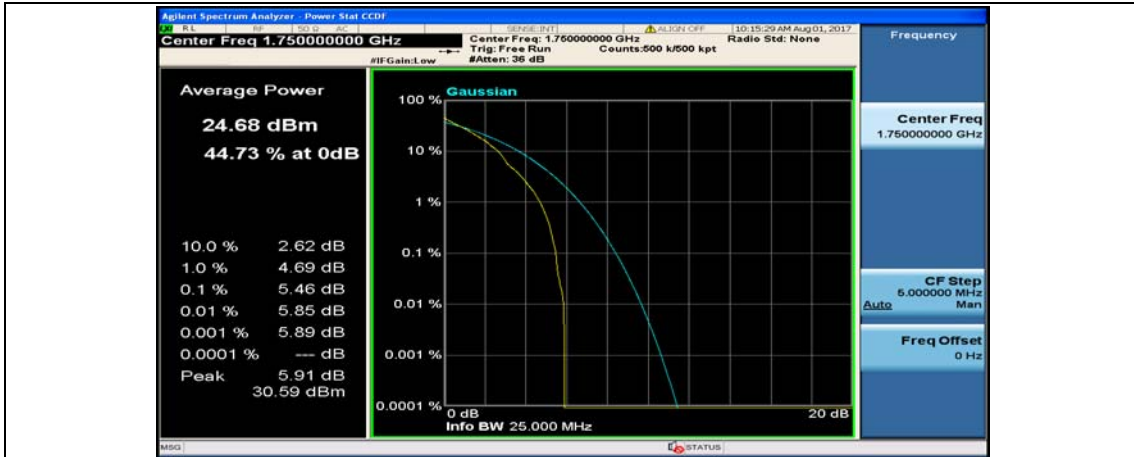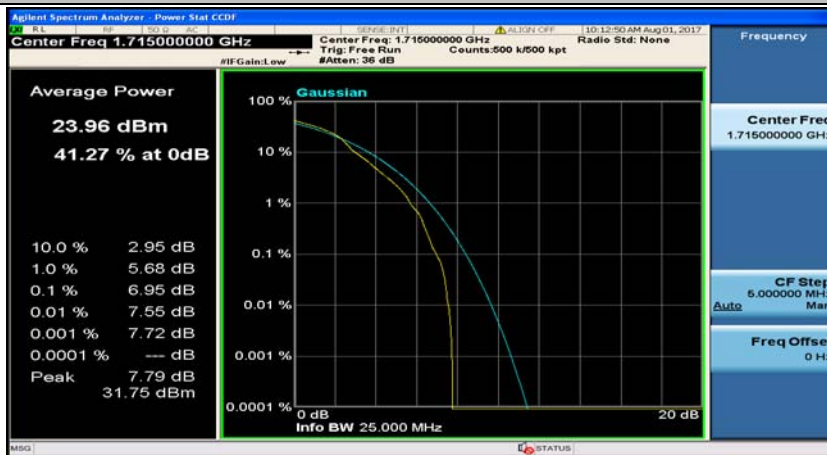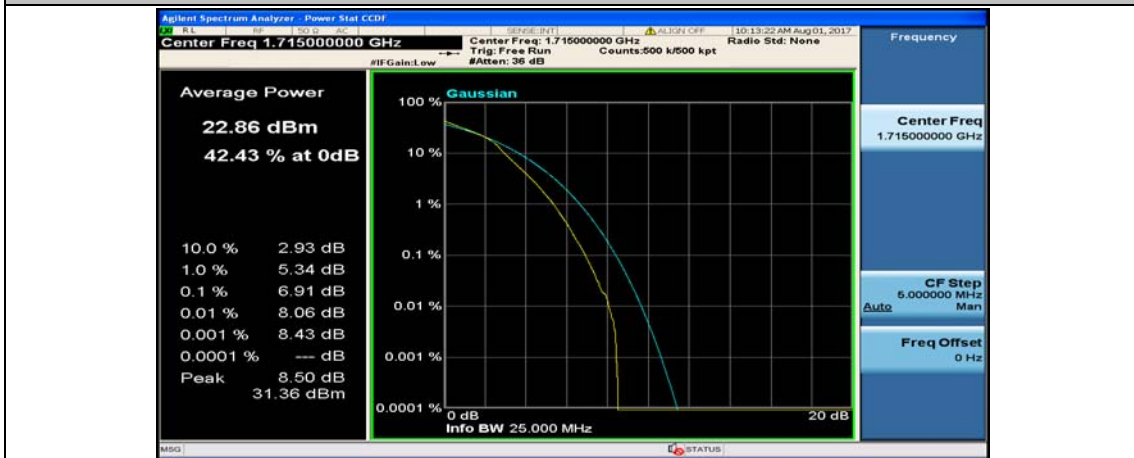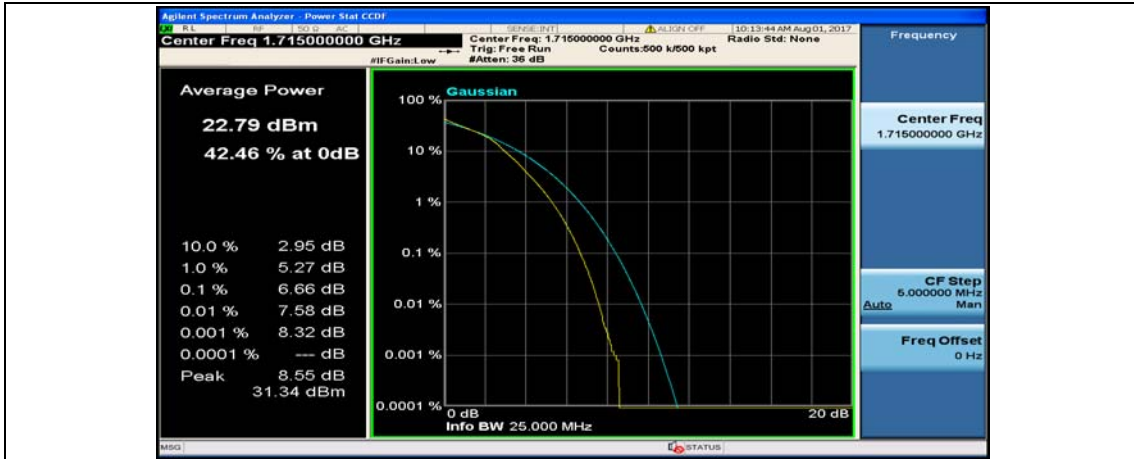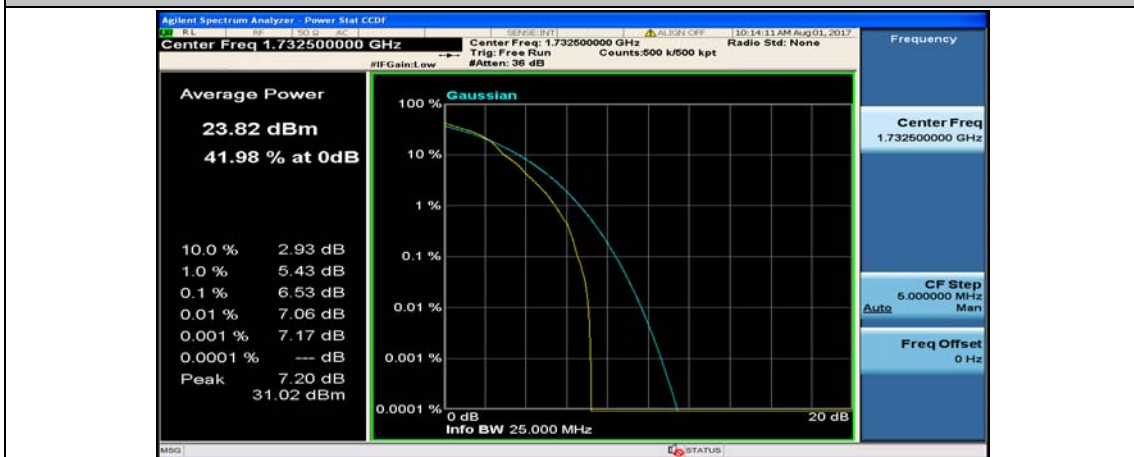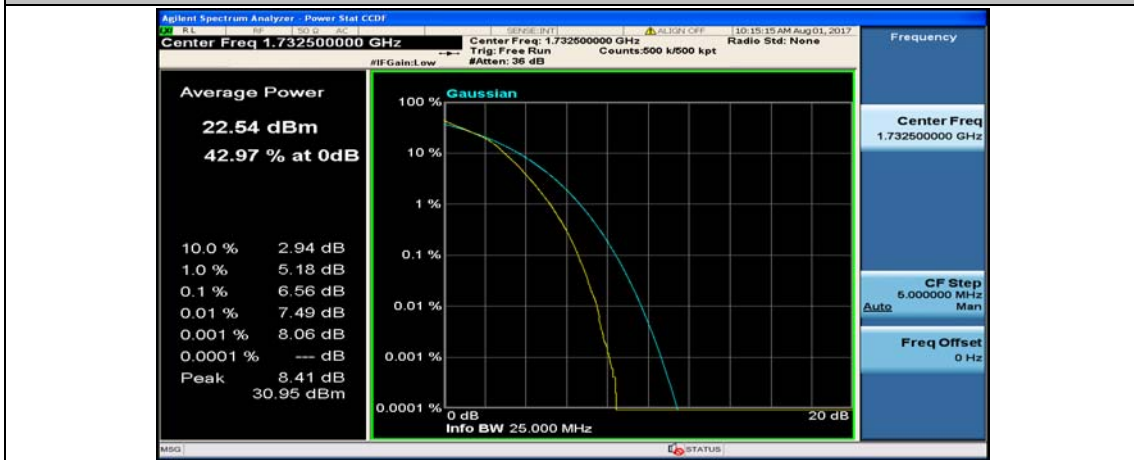Channel Bandwidth: 10 MHz_LCH_16QAM_25RB#25

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
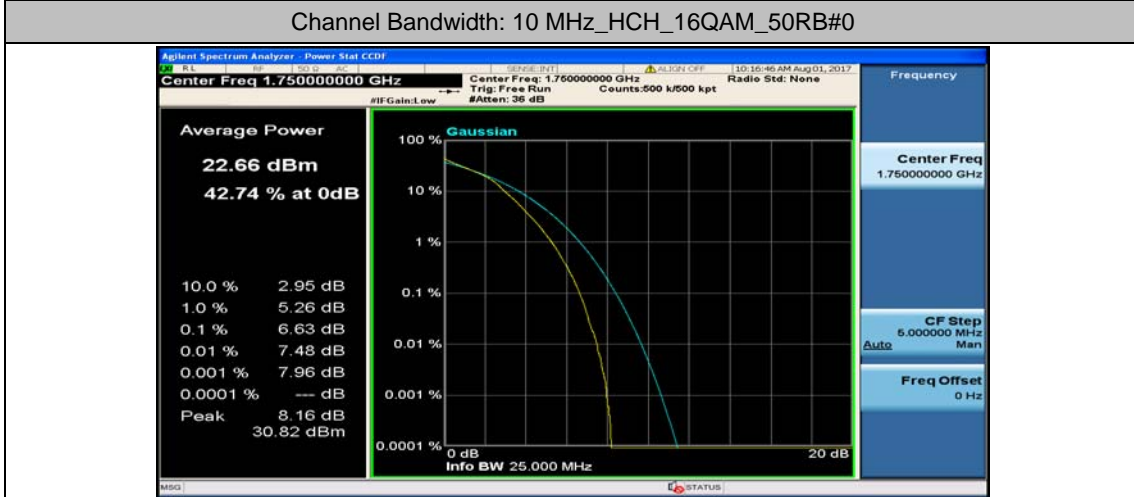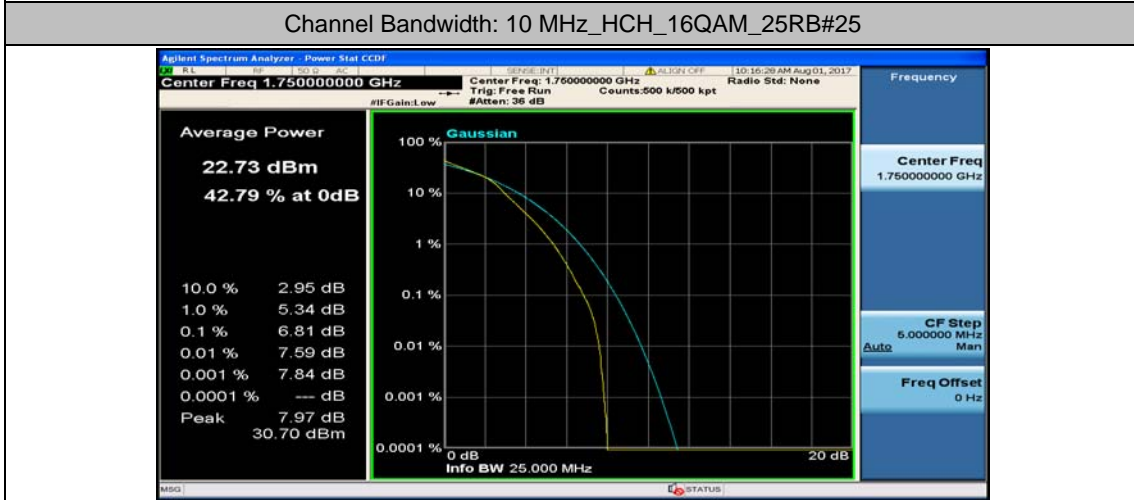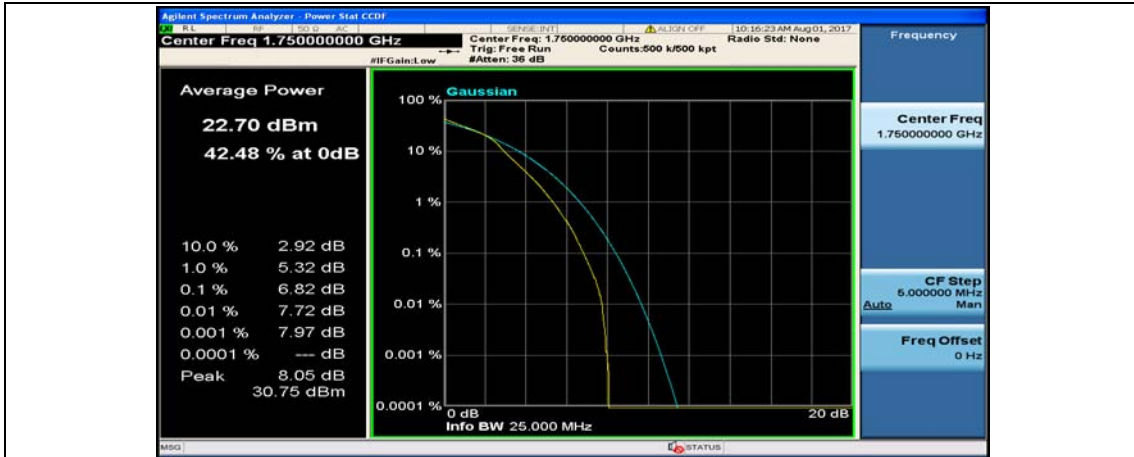
Channel Bandwidth: 15 MHz

(Channel Bandwidth:15 MHz)_LCH_QPSK_1RB#0

(Channel Bandwidth:15 MHz)_LCH_QPSK_1RB#37

(Channel Bandwidth:15 MHz)_LCH_QPSK_1RB#74
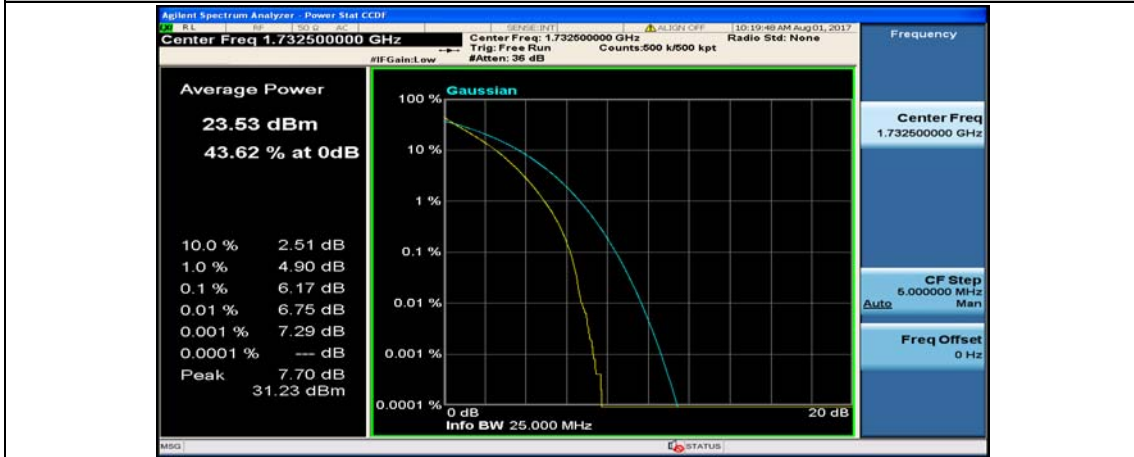

(Channel Bandwidth:15 MHz)_LCH_QPSK_37RB#0

(Channel Bandwidth:15 MHz)_LCH_QPSK_37RB#18

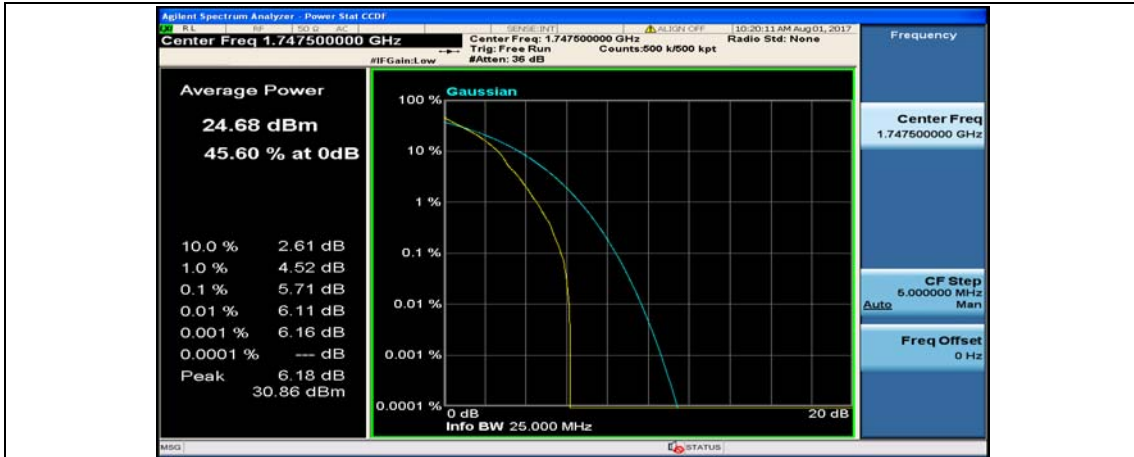(Channel Bandwidth:15 MHz)_LCH_QPSK_37RB#38
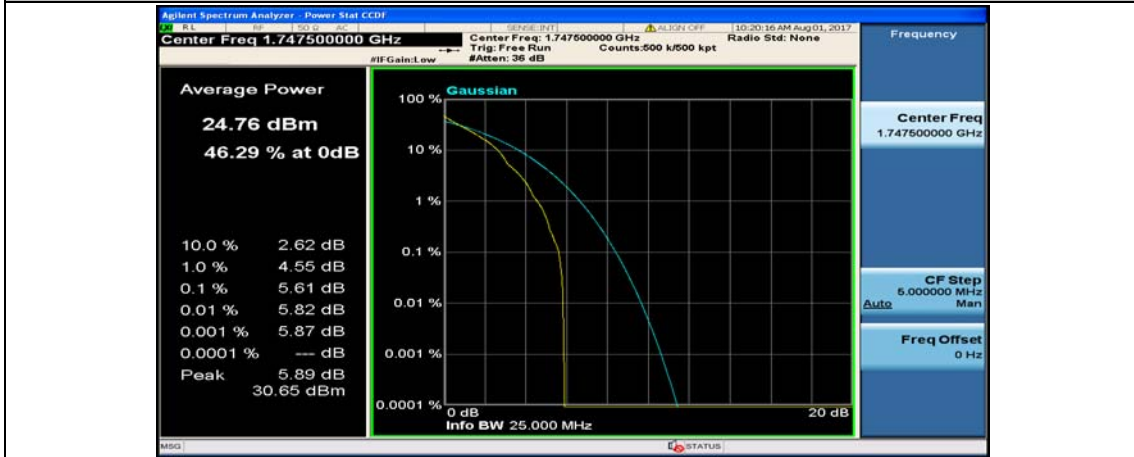

(Channel Bandwidth:15 MHz)_LCH_QPSK_75RB#0

(Channel Bandwidth:15 MHz)_MCH_QPSK_1RB#0
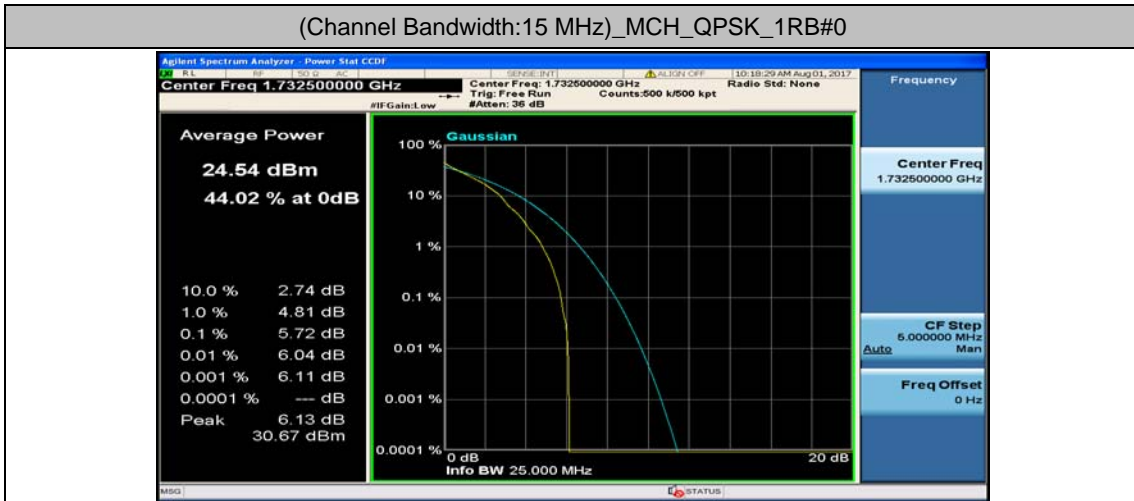
(Channel Bandwidth:15 MHz)_MCH_QPSK_1RB#37

(Channel Bandwidth:15 MHz)_MCH_QPSK_1RB#74

(Channel Bandwidth:15 MHz)_MCH_QPSK_37RB#0

(Channel Bandwidth:15 MHz)_MCH_QPSK_37RB#18

(Channel Bandwidth:15 MHz)_MCH_QPSK_37RB#38
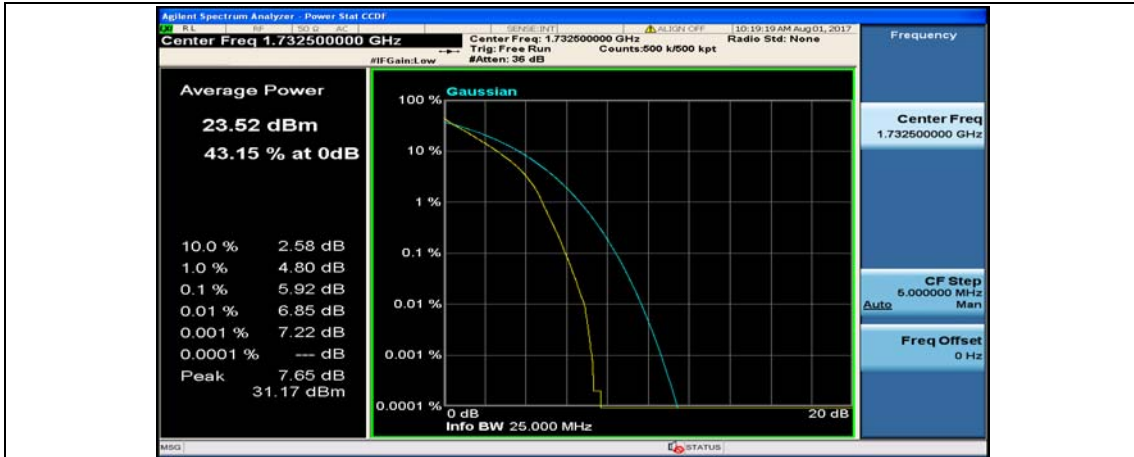
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(Channel Bandwidth:15 MHz)_HCH_QPSK_1RB#0

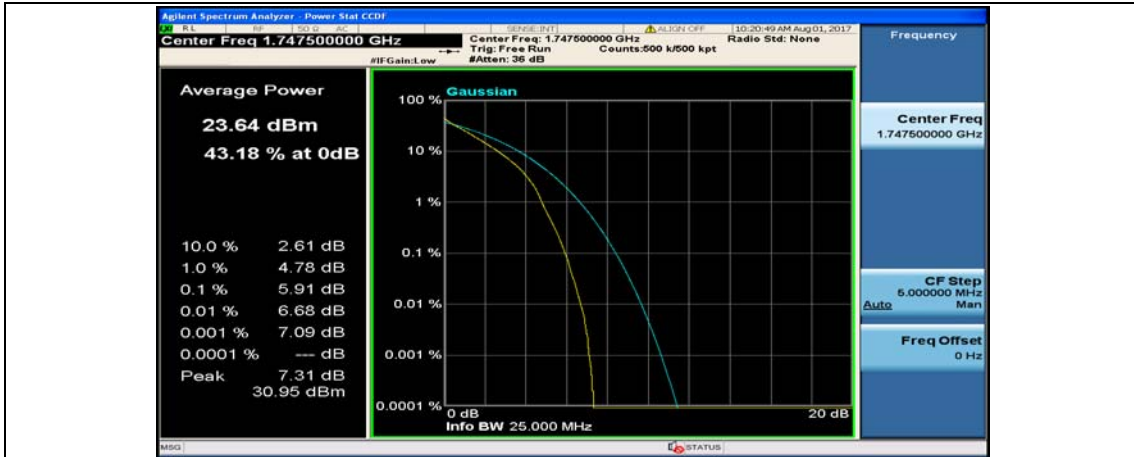
(Channel Bandwidth:15 MHz)_HCH_QPSK_1RB#37

(Channel Bandwidth:15 MHz)_HCH_QPSK_1RB#74

(Channel Bandwidth:15 MHz)_HCH_QPSK_37RB#0

(Channel Bandwidth:15 MHz)_HCH_QPSK_37RB#18

(Channel Bandwidth:15 MHz)_HCH_QPSK_37RB#38

(Channel Bandwidth:15 MHz)_HCH_QPSK_75RB#0

(Channel Bandwidth:15 MHz)_LCH_16QAM_1RB#0
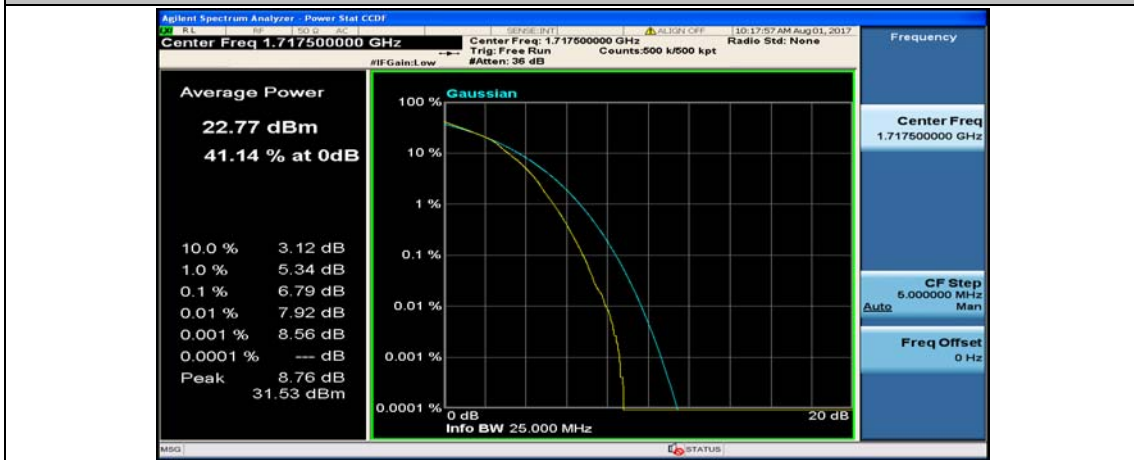
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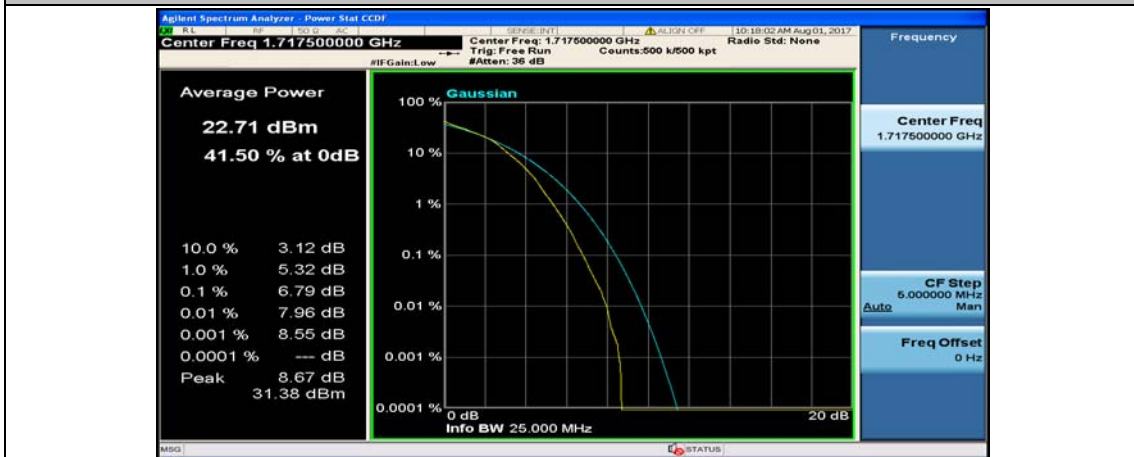(Channel Bandwidth:15 MHz)_LCH_16QAM_1RB#74

(Channel Bandwidth:15 MHz)_LCH_16QAM_37RB#0
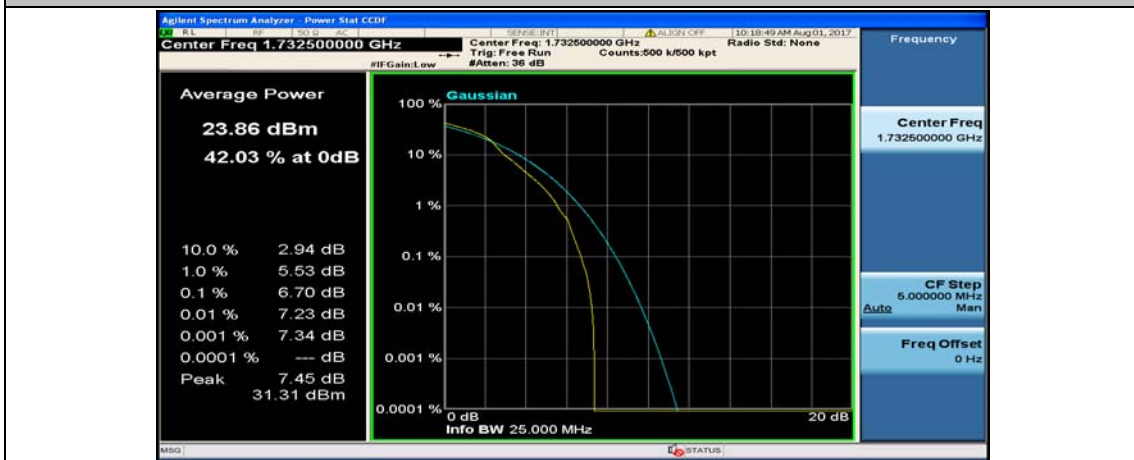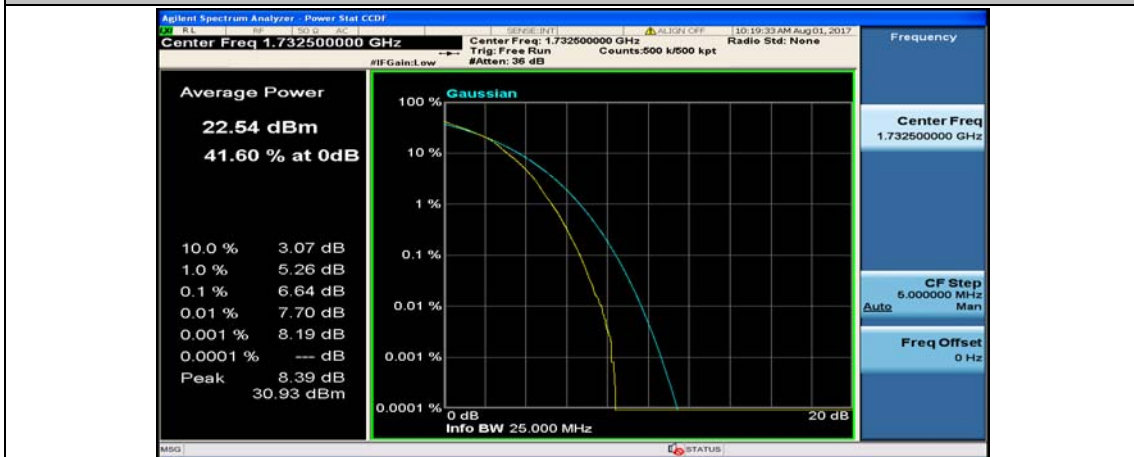
(Channel Bandwidth:15 MHz)_LCH_16QAM_37RB#18

(Channel Bandwidth:15 MHz)_LCH_16QAM_37RB#38

(Channel Bandwidth:15 MHz)_LCH_16QAM_75RB#0

(Channel Bandwidth:15 MHz)_MCH_16QAM_1RB#0

(Channel Bandwidth:15 MHz)_MCH_16QAM_1RB#37

(Channel Bandwidth:15 MHz)_MCH_16QAM_1RB#74

(Channel Bandwidth:15 MHz)_MCH_16QAM_37RB#0

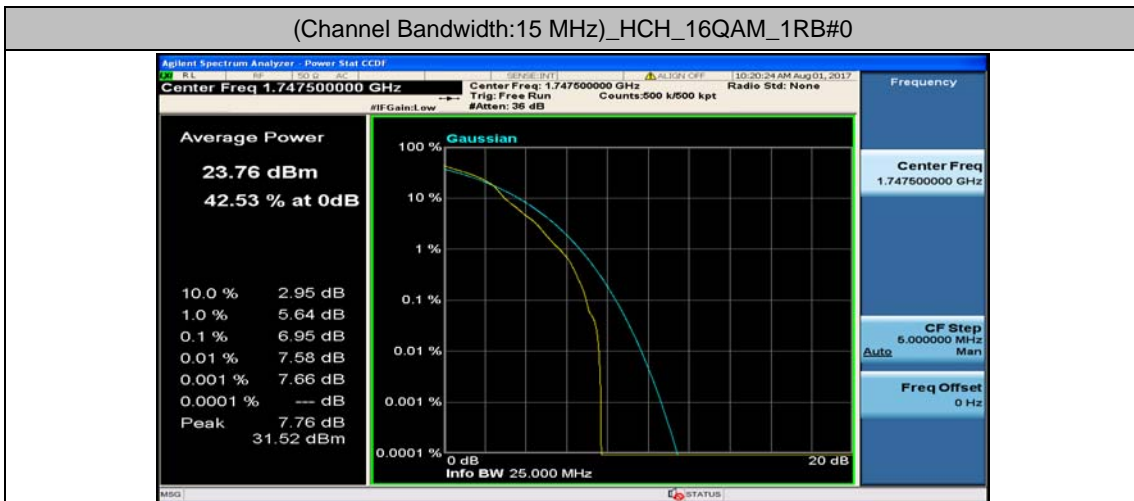(Channel Bandwidth:15 MHz)_MCH_16QAM_37RB#18

(Channel Bandwidth:15 MHz)_MCH_16QAM_37RB#38

(Channel Bandwidth:15 MHz)_MCH_16QAM_75RB#0

(Channel Bandwidth:15 MHz)_HCH_16QAM_1RB#0

(Channel Bandwidth:15 MHz)_HCH_16QAM_1RB#37

(Channel Bandwidth:15 MHz)_HCH_16QAM_1RB#74

(Channel Bandwidth:15 MHz)_HCH_16QAM_37RB#0

(Channel Bandwidth:15 MHz)_HCH_16QAM_37RB#18

(Channel Bandwidth:15 MHz)_HCH_16QAM_37RB#38

(Channel Bandwidth:15 MHz)_HCH_16QAM_75RB#0

Channel Bandwidth: 20 MHz

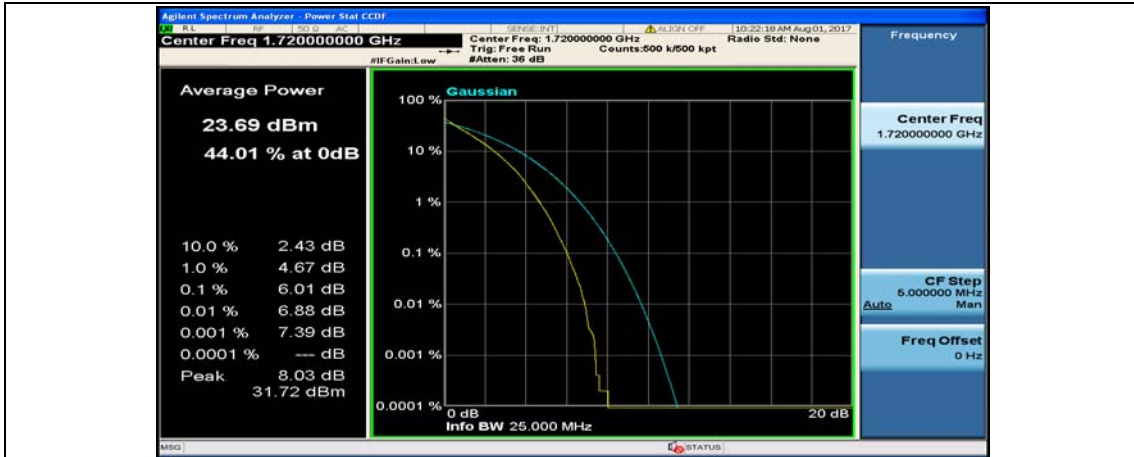(Channel Bandwidth:20 MHz)_LCH_QPSK_1RB#0

(Channel Bandwidth:20 MHz)_LCH_QPSK_1RB#49

(Channel Bandwidth:20 MHz)_LCH_QPSK_1RB#99
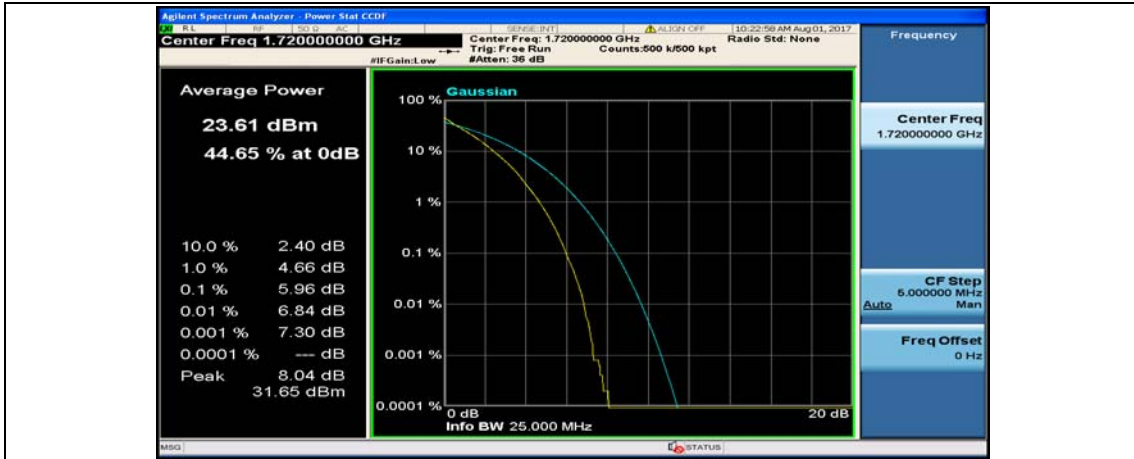

(Channel Bandwidth:20 MHz)_LCH_QPSK_50RB#0

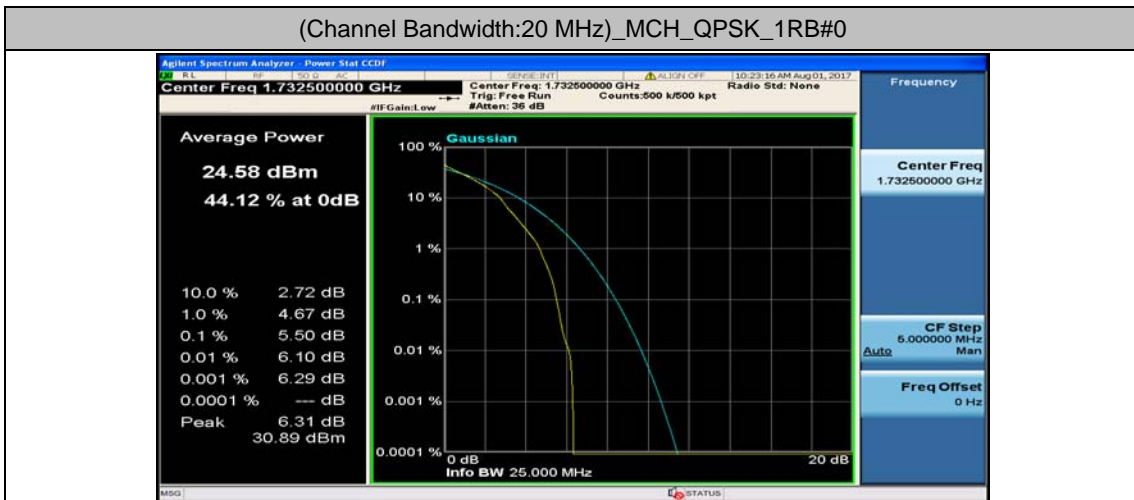(Channel Bandwidth:20 MHz)_LCH_QPSK_50RB#25

(Channel Bandwidth:20 MHz)_LCH_QPSK_50RB#50

(Channel Bandwidth:20 MHz)_LCH_QPSK_100RB#0

(Channel Bandwidth:20 MHz)_MCH_QPSK_1RB#0

(Channel Bandwidth:20 MHz)_MCH_QPSK_1RB#49

(Channel Bandwidth:20 MHz)_MCH_QPSK_1RB#99

(Channel Bandwidth:20 MHz)_MCH_QPSK_50RB#0

(Channel Bandwidth:20 MHz)_MCH_QPSK_50RB#25

(Channel Bandwidth:20 MHz)_MCH_QPSK_50RB#50

(Channel Bandwidth:20 MHz)_MCH_QPSK_100RB#0
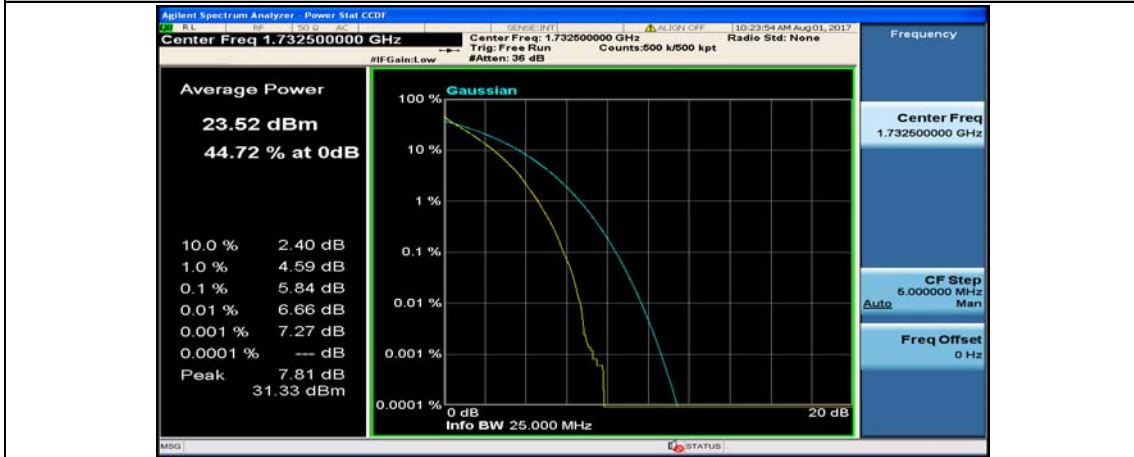

(Channel Bandwidth:20 MHz)_HCH_QPSK_1RB#0

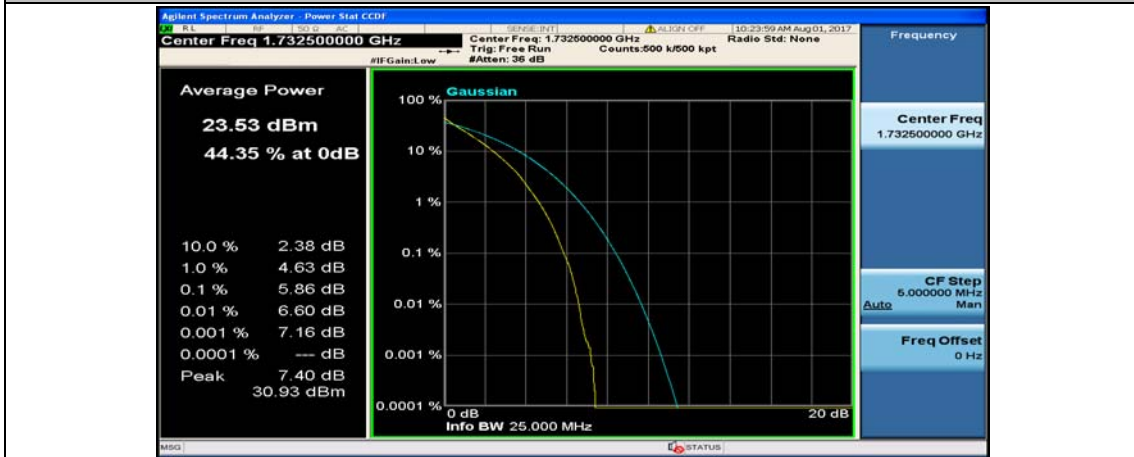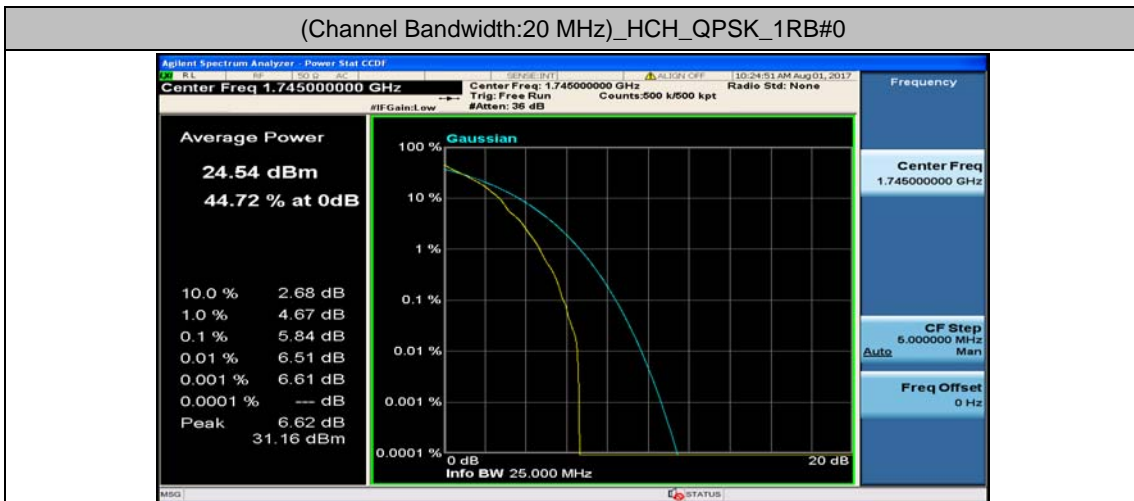(Channel Bandwidth:20 MHz)_HCH_QPSK_1RB#49

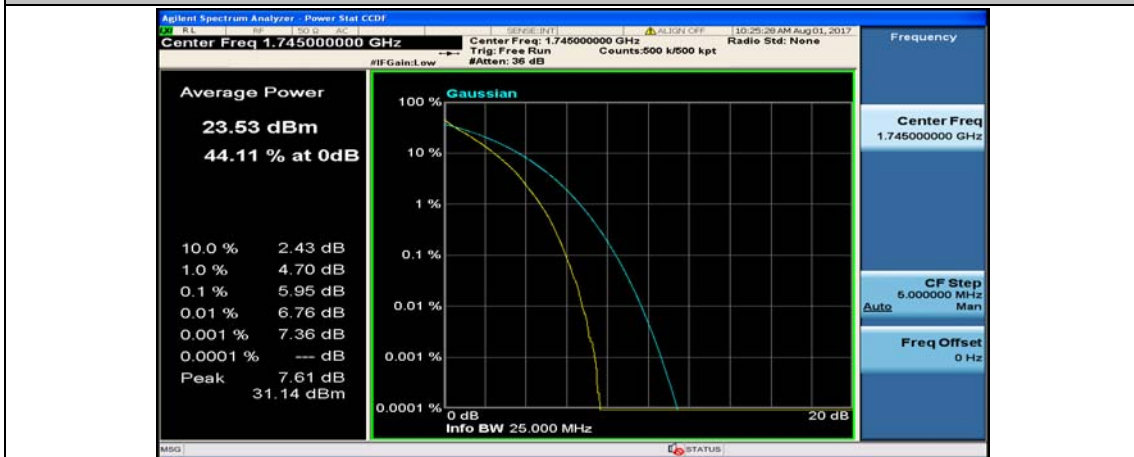(Channel Bandwidth:20 MHz)_HCH_QPSK_1RB#99

(Channel Bandwidth:20 MHz)_HCH_QPSK_50RB#0

(Channel Bandwidth:20 MHz)_HCH_QPSK_50RB#25

(Channel Bandwidth:20 MHz)_HCH_QPSK_50RB#50

(Channel Bandwidth:20 MHz)_HCH_QPSK_100RB#0

(Channel Bandwidth:20 MHz)_LCH_16QAM_1RB#0

(Channel Bandwidth:20 MHz)_LCH_16QAM_1RB#49

(Channel Bandwidth:20 MHz)_LCH_16QAM_1RB#99

(Channel Bandwidth:20 MHz)_LCH_16QAM_50RB#0

(Channel Bandwidth:20 MHz)_LCH_16QAM_50RB#25

(Channel Bandwidth:20 MHz)_LCH_16QAM_50RB#50

(Channel Bandwidth:20 MHz)_LCH_16QAM_100RB#0

(Channel Bandwidth:20 MHz)_MCH_16QAM_1RB#0

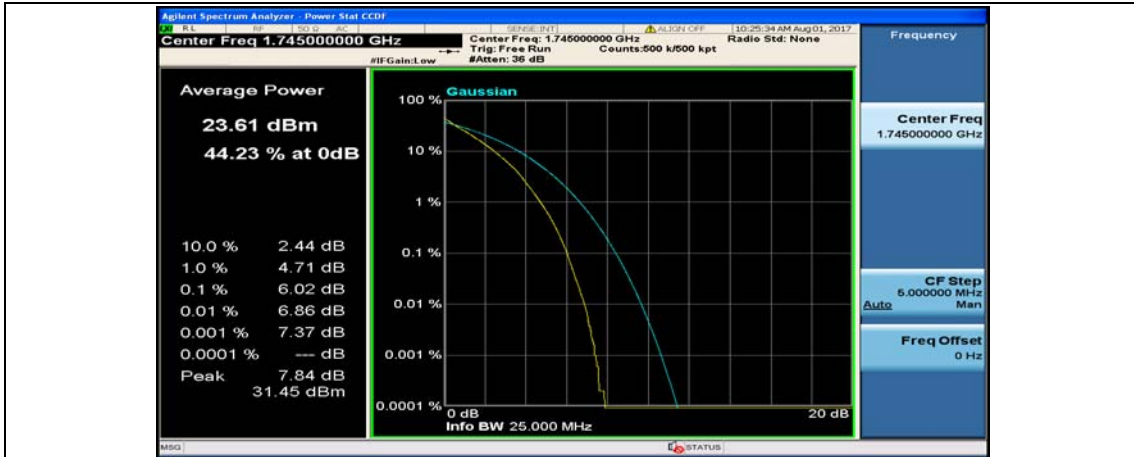(Channel Bandwidth:20 MHz)_MCH_16QAM_1RB#49

(Channel Bandwidth:20 MHz)_MCH_16QAM_1RB#99

(Channel Bandwidth:20 MHz)_MCH_16QAM_50RB#0

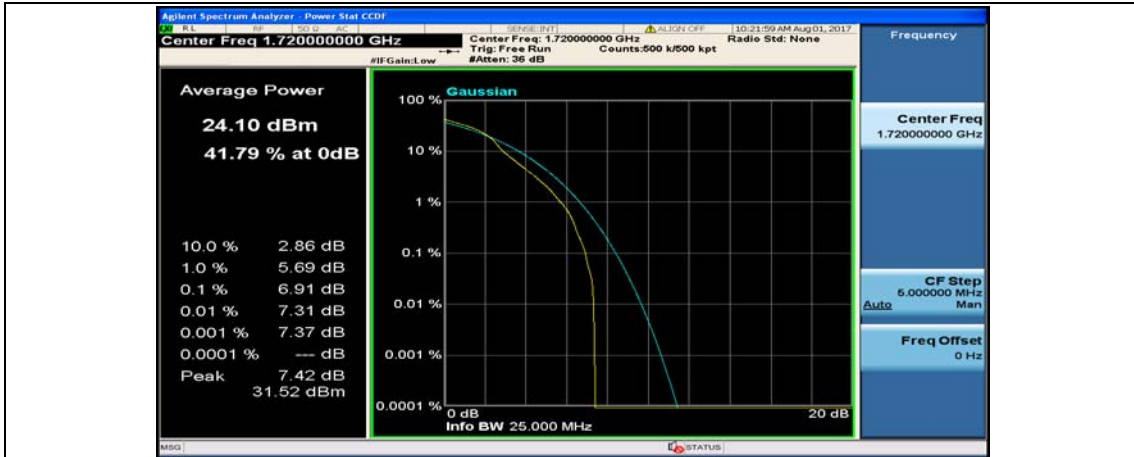(Channel Bandwidth:20 MHz)_MCH_16QAM_50RB#25

(Channel Bandwidth:20 MHz)_MCH_16QAM_50RB#50

(Channel Bandwidth:20 MHz)_MCH_16QAM_100RB#0

(Channel Bandwidth:20 MHz)_HCH_16QAM_1RB#0
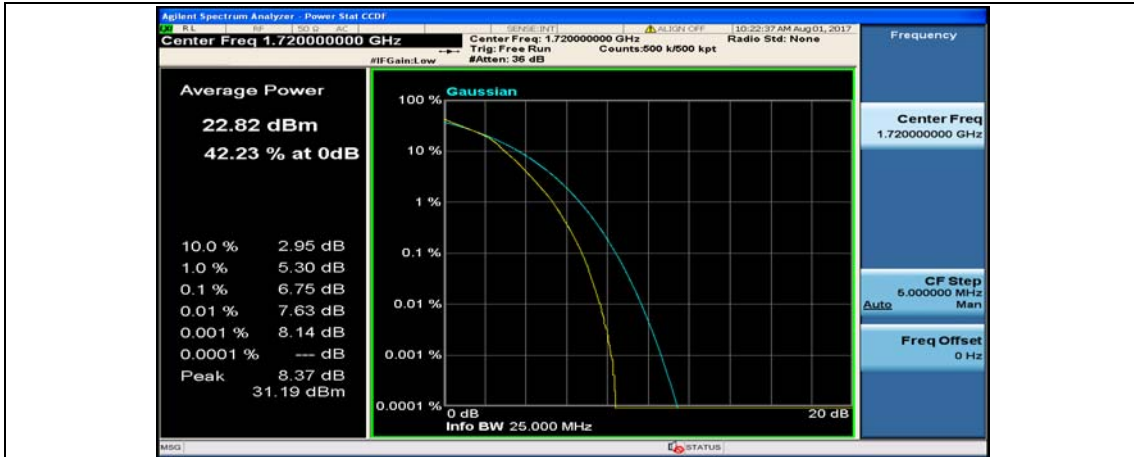

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(Channel Bandwidth:20 MHz)_HCH_16QAM_1RB#99

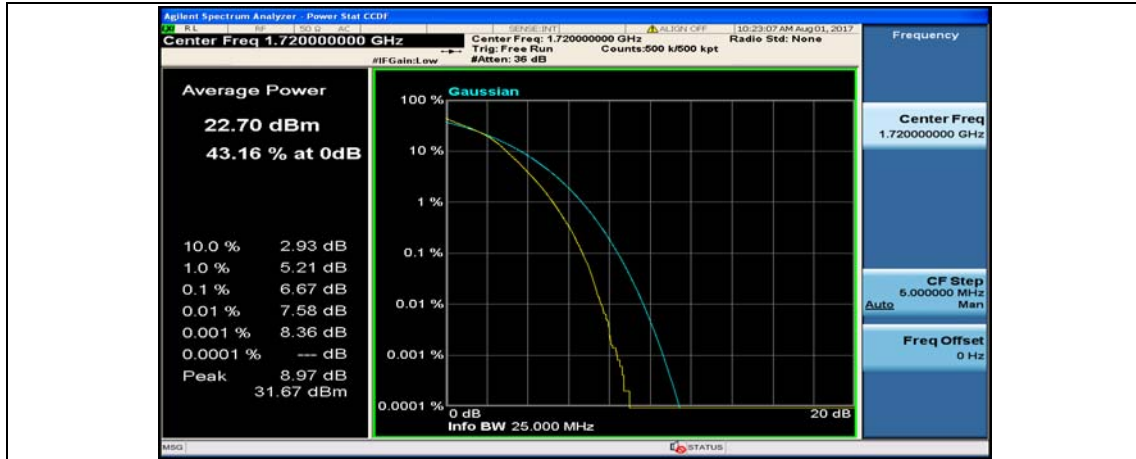

(Channel Bandwidth:20 MHz)_HCH_16QAM_50RB#0

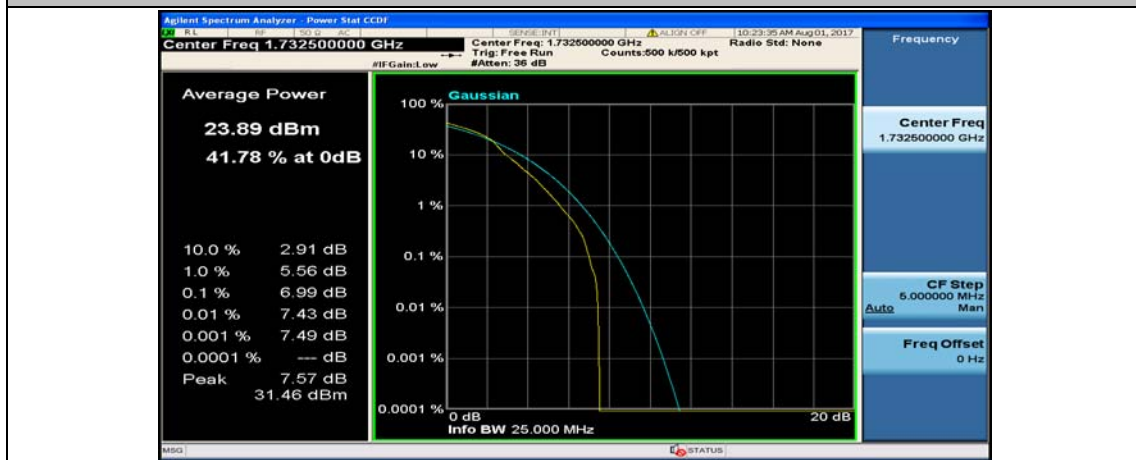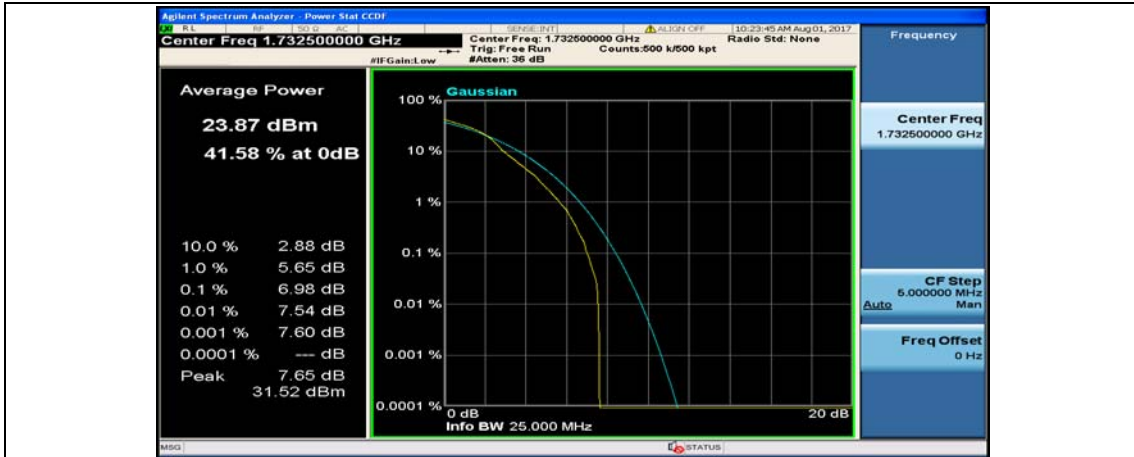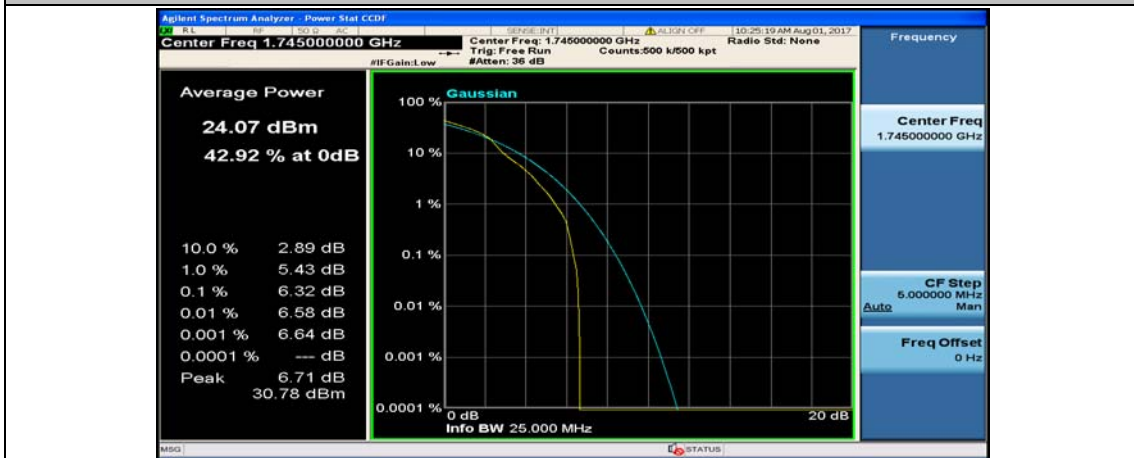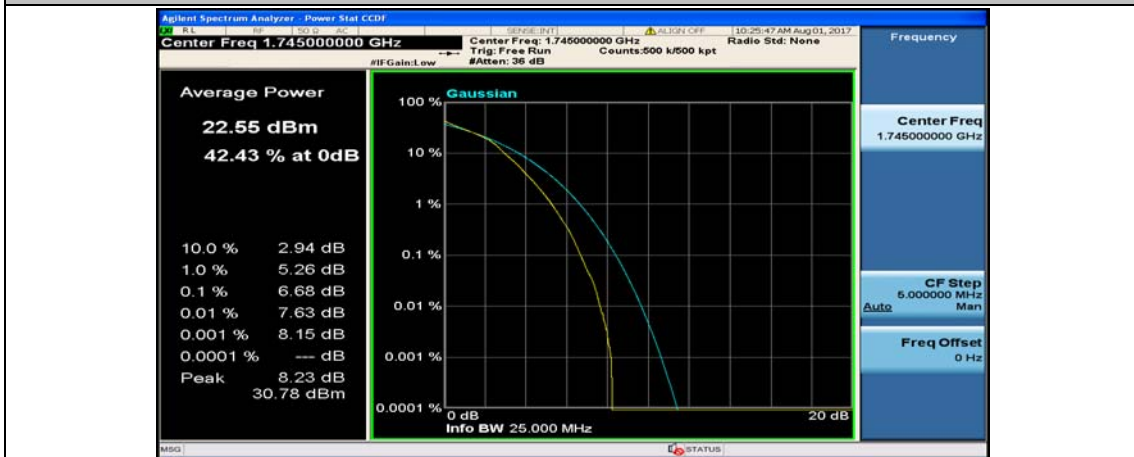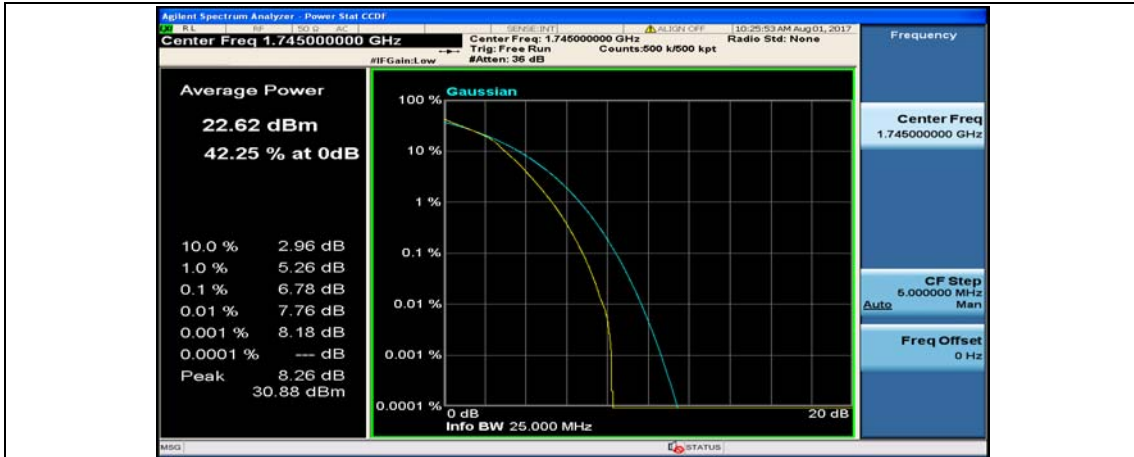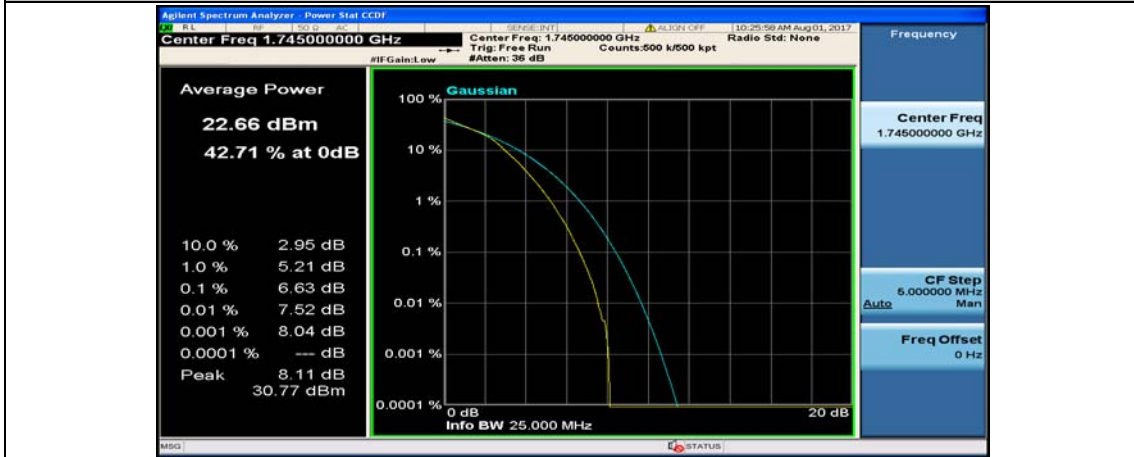(Channel Bandwidth:20 MHz)_HCH_16QAM_50RB#25

(Channel Bandwidth:20 MHz)_HCH_16QAM_50RB#50

(Channel Bandwidth:20 MHz)_HCH_16QAM_100RB#0

Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Channel Bandwidth: 1.4 MHz

Channel Bandwidth: 1.4 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth	26dB Bandwidth	Verdict
		Size	Offset	(MHz)	(MHz)	
QPSK	LCH	6	0	1.0794	1.223	PASS
	MCH	6	0	1.0782	1.223	PASS
	HCH	6	0	1.0768	1.204	PASS
16QAM	LCH	6	0	1.0786	1.219	PASS
	MCH	6	0	1.0798	1.217	PASS
	HCH	6	0	1.0782	1.227	PASS

Channel Bandwidth: 3 MHz

Channel Bandwidth: 3 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth	26dB Bandwidth	Verdict
		Size	Offset	(MHz)	(MHz)	
QPSK	LCH	15	0	2.6844	2.874	PASS
	MCH	15	0	2.6809	2.849	PASS
	HCH	15	0	2.6830	2.891	PASS
16QAM	LCH	15	0	2.6864	2.854	PASS
	MCH	15	0	2.6821	2.854	PASS
	HCH	15	0	2.6842	2.873	PASS

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	4.4883	4.830	PASS
	MCH	25	0	4.4785	4.826	PASS
	HCH	25	0	4.4812	4.857	PASS
16QAM	LCH	25	0	4.4857	4.820	PASS
	MCH	25	0	4.4813	4.789	PASS
	HCH	25	0	4.4832	4.831	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	8.9396	9.506	PASS
	MCH	50	0	8.9359	9.482	PASS
	HCH	50	0	8.9201	9.443	PASS
16QAM	LCH	50	0	8.9370	9.439	PASS
	MCH	50	0	8.9227	9.385	PASS
	HCH	50	0	8.9365	9.441	PASS

Channel Bandwidth: 15 MHz

Channel Bandwidth: 15 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth	26dB Bandwidth	Verdict
		Size	Offset	(MHz)	(MHz)	
QPSK	LCH	75	0	13.422	14.11	PASS
	MCH	75	0	13.390	14.03	PASS
	HCH	75	0	13.396	14.07	PASS
16QAM	LCH	75	0	13.406	14.07	PASS
	MCH	75	0	13.394	14.08	PASS
	HCH	75	0	13.394	14.09	PASS

Channel Bandwidth: 20 MHz

Channel Bandwidth: 20 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth	26dB Bandwidth	Verdict
		Size	Offset	(MHz)	(MHz)	
QPSK	LCH	100	0	17.890	18.68	PASS
	MCH	100	0	17.861	18.64	PASS
	HCH	100	0	17.874	18.65	PASS
16QAM	LCH	100	0	17.883	18.62	PASS
	MCH	100	0	17.846	18.59	PASS
	HCH	100	0	17.876	18.68	PASS

Test Graphs

Channel Bandwidth: 1.4 MHz

(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_6RB#0