Appendix A.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	Limit	Verdict
		Size	Offset	(dB)	(dB)	
QPSK	LCH	1	0	3.18	<13	PASS
		1	3	3.23	<13	PASS
		1	5	3.24	<13	PASS
		3	0	3.64	<13	PASS
		3	2	3.58	<13	PASS
		3	3	3.63	<13	PASS
		6	0	4.52	<13	PASS
	MCH	1	0	2.98	<13	PASS
		1	3	2.91	<13	PASS
		1	5	2.87	<13	PASS
		3	0	3.31	<13	PASS
		3	2	3.19	<13	PASS
		3	3	3.22	<13	PASS
		6	0	4.07	<13	PASS
	HCH	1	0	2.85	<13	PASS
		1	3	2.64	<13	PASS
		1	5	2.53	<13	PASS
		3	0	3.17	<13	PASS
		3	2	2.88	<13	PASS
		3	3	2.87	<13	PASS
		6	0	3.95	<13	PASS
16QAM	LCH	1	0	4.22	<13	PASS
		1	3	4.26	<13	PASS
		1	5	4.29	<13	PASS
		3	0	4.47	<13	PASS
		3	2	4.5	<13	PASS
		3	3	4.53	<13	PASS
		6	0	5.36	<13	PASS
	MCH	1	0	4.08	<13	PASS
		1	3	4.01	<13	PASS
		1	5	3.93	<13	PASS
		3	0	4.26	<13	PASS
		3	2	4.2	<13	PASS

		Size	Offset			
		3	3	4.16	<13	PASS
		6	0	5.02	<13	PASS
	HCH	1	0	3.86	<13	PASS
		1	3	3.74	<13	PASS
		1	5	3.6	<13	PASS
		3	0	3.98	<13	PASS
		3	2	3.78	<13	PASS
		3	3	3.73	<13	PASS
		6	0	4.84	<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	3.17	<13	PASS
		1	7	3.29	<13	PASS
		1	14	3.45	<13	PASS
		8	0	4.41	<13	PASS
		8	4	4.4	<13	PASS
		8	7	4.51	<13	PASS
		15	0	4.82	<13	PASS
	MCH	1	0	3.1	<13	PASS
		1	7	3.01	<13	PASS
		1	14	2.87	<13	PASS
		8	0	4	<13	PASS
		8	4	3.81	<13	PASS
		8	7	3.89	<13	PASS
		15	0	4.45	<13	PASS
	HCH	1	0	3.18	<13	PASS
		1	7	2.76	<13	PASS
		1	14	2.45	<13	PASS
		8	0	4.17	<13	PASS
		8	4	3.9	<13	PASS
		8	7	3.88	<13	PASS
		15	0	4.56	<13	PASS
16QAM	LCH	1	0	4.07	<13	PASS
		1	7	4.16	<13	PASS
		1	14	4.42	<13	PASS
		8	0	5.06	<13	PASS
		8	4	5.11	<13	PASS
		8	7	5.2	<13	PASS

		Size	Offset			
		15	0	5.67	<13	PASS
	MCH	1	0	4.1	<13	PASS
		1	7	4.02	<13	PASS
		1	14	3.99	<13	PASS
		8	0	4.81	<13	PASS
		8	4	4.68	<13	PASS
		8	7	4.7	<13	PASS
		15	0	5.32	<13	PASS
	HCH	1	0	4.2	<13	PASS
		1	7	3.89	<13	PASS
		1	14	3.55	<13	PASS
		8	0	5.04	<13	PASS
		8	4	4.81	<13	PASS
		8	7	4.71	<13	PASS
		15	0	5.29	<13	PASS

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	3.08	<13	PASS
		1	12	3.29	<13	PASS
		1	24	3.56	<13	PASS
		12	0	4.46	<13	PASS
		12	6	4.47	<13	PASS
		12	13	4.63	<13	PASS
		25	0	4.85	<13	PASS
	MCH	1	0	3.18	<13	PASS
		1	12	2.9	<13	PASS
		1	24	2.77	<13	PASS
		12	0	4.12	<13	PASS
		12	6	3.84	<13	PASS
		12	13	3.88	<13	PASS
		25	0	4.44	<13	PASS
	HCH	1	0	3.64	<13	PASS
		1	12	3.13	<13	PASS
		1	24	2.51	<13	PASS
		12	0	4.52	<13	PASS
		12	6	4.25	<13	PASS
		12	13	4.01	<13	PASS
		25	0	4.62	<13	PASS

Modulation	Channel	RB Configuration		Peak-to-Average Ratio	Limit	Verdict
		Size	Offset	[dB]	[dB]	
16QAM	LCH	1	0	4.16	<13	PASS
		1	12	4.33	<13	PASS
		1	24	4.6	<13	PASS
		12	0	5.24	<13	PASS
		12	6	5.28	<13	PASS
		12	13	5.39	<13	PASS
		25	0	5.61	<13	PASS
	MCH	1	0	4.25	<13	PASS
		1	12	3.92	<13	PASS
		1	24	3.79	<13	PASS
		12	0	5	<13	PASS
		12	6	4.8	<13	PASS
		12	13	4.8	<13	PASS
		25	0	5.25	<13	PASS
	HCH	1	0	4.4	<13	PASS
		1	12	4.02	<13	PASS
		1	24	3.43	<13	PASS
		12	0	5.6	<13	PASS
		12	6	5.29	<13	PASS
		12	13	5.06	<13	PASS
		25	0	5.47	<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	3.16	<13	PASS
		1	24	3.62	<13	PASS
		1	49	3.92	<13	PASS
		25	0	4.8	<13	PASS
		25	12	4.79	<13	PASS
		25	25	4.99	<13	PASS
		50	0	5.14	<13	PASS
	MCH	1	0	3.47	<13	PASS
		1	24	2.96	<13	PASS
		1	49	2.66	<13	PASS
		25	0	4.48	<13	PASS
		25	12	4.08	<13	PASS
		25	25	4.12	<13	PASS
		50	0	4.72	<13	PASS
	HCH	1	0	3.51	<13	PASS

Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
		1	24	3.45	<13	PASS
		1	49	2.43	<13	PASS
		25	0	4.9	<13	PASS
		25	12	4.68	<13	PASS
		25	25	4.5	<13	PASS
		50	0	4.98	<13	PASS
16QAM	LCH	1	0	4.05	<13	PASS
		1	24	4.61	<13	PASS
		1	49	4.92	<13	PASS
		25	0	5.58	<13	PASS
		25	12	5.61	<13	PASS
		25	25	5.79	<13	PASS
		50	0	5.81	<13	PASS
	MCH	1	0	4.55	<13	PASS
		1	24	3.94	<13	PASS
		1	49	3.64	<13	PASS
		25	0	5.35	<13	PASS
		25	12	4.94	<13	PASS
		25	25	4.91	<13	PASS
		50	0	5.43	<13	PASS
	HCH	1	0	4.45	<13	PASS
		1	24	4.54	<13	PASS
		1	49	3.58	<13	PASS
		25	0	5.7	<13	PASS
		25	12	5.54	<13	PASS
		25	25	5.34	<13	PASS
		50	0	5.72	<13	PASS

Channel Bandwidth: 15 MHz

Channel Bandwidth: 15 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio	Limit	Verdict
		Size	Offset	[dB]	[dB]	
QPSK	LCH	1	0	8.93	<13	PASS
		1	37	3.85	<13	PASS
		1	74	9.71	<13	PASS
		37	0	4.5	<13	PASS
		37	18	5.01	<13	PASS
		37	38	4.65	<13	PASS
		75	0	4.98	<13	PASS
	MCH	1	0	8.25	<13	PASS
		1	37	2.94	<13	PASS

Modulation	Channel	Size	Offset	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		1	74	11.25	<13	PASS
		37	0	4.37	<13	PASS
		37	18	4.3	<13	PASS
		37	38	4.43	<13	PASS
		75	0	4.8	<13	PASS
	HCH	1	0	8.69	<13	PASS
		1	37	3.59	<13	PASS
		1	74	11.35	<13	PASS
		37	0	4.39	<13	PASS
		37	18	4.84	<13	PASS
		37	38	4.6	<13	PASS
		75	0	5	<13	PASS
16QAM	LCH	1	0	8.76	<13	PASS
		1	37	4.81	<13	PASS
		1	74	10.42	<13	PASS
		37	0	5.66	<13	PASS
		37	18	5.83	<13	PASS
		37	38	5.86	<13	PASS
		75	0	6.15	<13	PASS
	MCH	1	0	8.46	<13	PASS
		1	37	4.03	<13	PASS
		1	74	11.15	<13	PASS
		37	0	5.5	<13	PASS
		37	18	5.18	<13	PASS
		37	38	5.47	<13	PASS
		75	0	5.84	<13	PASS
	HCH	1	0	8.33	<13	PASS
		1	37	4.62	<13	PASS
		1	74	11.34	<13	PASS
		37	0	5.58	<13	PASS
		37	18	5.65	<13	PASS
		37	38	5.78	<13	PASS
		75	0	6.12	<13	PASS

Channel Bandwidth: 20 MHz

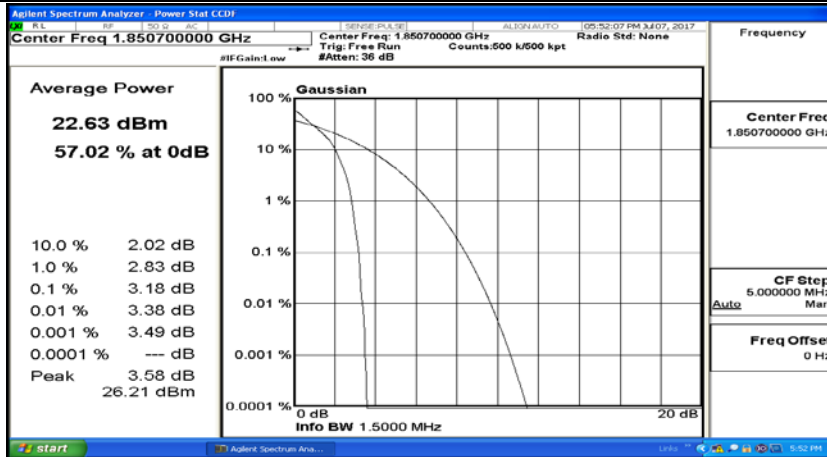| Channel Bandwidth: 20 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio	Limit	Verdict
		Size	Offset	[dB]	[dB]	
QPSK	LCH	1	0	9.74	<13	PASS
		1	49	4	<13	PASS
		1	99	9.72	<13	PASS

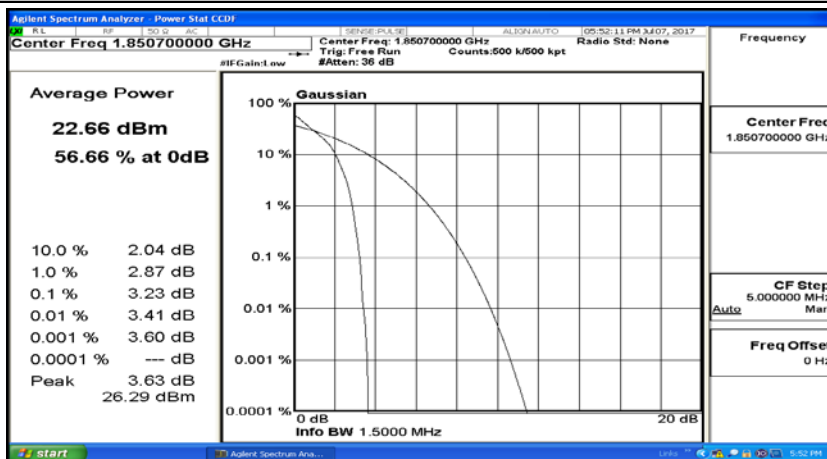|						
		50	0	5.41	<13	PASS
		50	25	5.19	<13	PASS
		50	50	5.73	<13	PASS
		100	0	5.74	<13	PASS
	MCH	1	0	10.45	<13	PASS
		1	49	2.94	<13	PASS
		1	99	9.21	<13	PASS
		50	0	5.2	<13	PASS
		50	25	4.69	<13	PASS
		50	50	5.53	<13	PASS
		100	0	5.7	<13	PASS
	HCH	1	0	8.96	<13	PASS
		1	49	3.6	<13	PASS
		1	99	11.51	<13	PASS
		50	0	5.35	<13	PASS
		50	25	5.06	<13	PASS
		50	50	5.75	<13	PASS
		100	0	5.79	<13	PASS
16QAM	LCH	1	0	9.04	<13	PASS
		1	49	4.82	<13	PASS
		1	99	9.42	<13	PASS
		50	0	6.46	<13	PASS
		50	25	6.01	<13	PASS
		50	50	6.55	<13	PASS
		100	0	6.75	<13	PASS
	MCH	1	0	9.8	<13	PASS
		1	49	3.9	<13	PASS
		1	99	9.21	<13	PASS
		50	0	6.28	<13	PASS
		50	25	5.43	<13	PASS
		50	50	6.31	<13	PASS
		100	0	6.6	<13	PASS
	HCH	1	0	8.36	<13	PASS
		1	49	4.41	<13	PASS
		1	99	9.64	<13	PASS
		50	0	6.3	<13	PASS
		50	25	5.75	<13	PASS
		50	50	6.52	<13	PASS
		100	0	6.63	<13	PASS

Test Graphs

Channel Bandwidth: 1.4 MHz

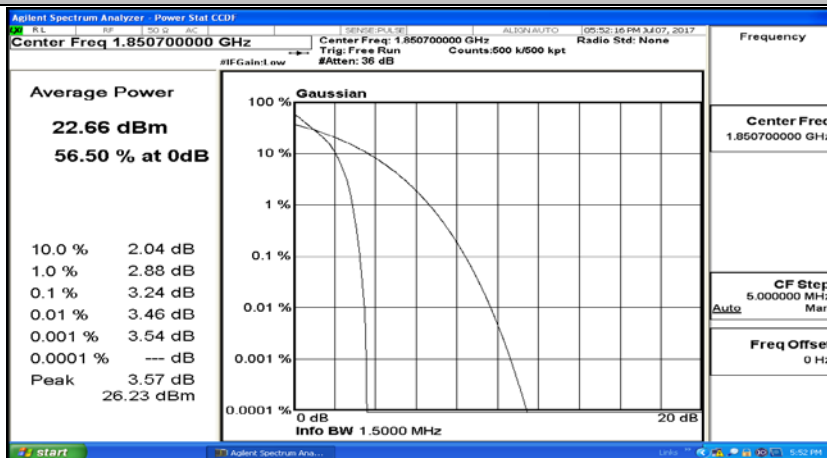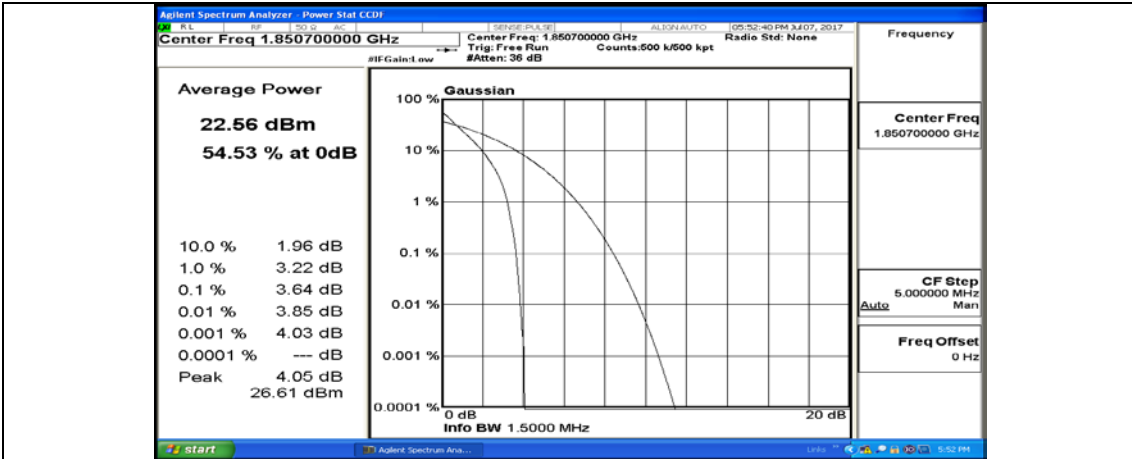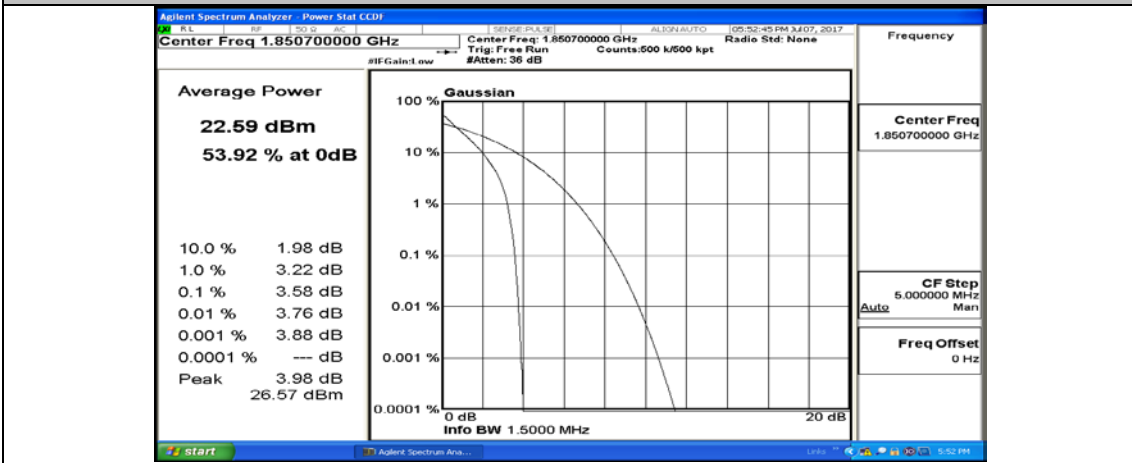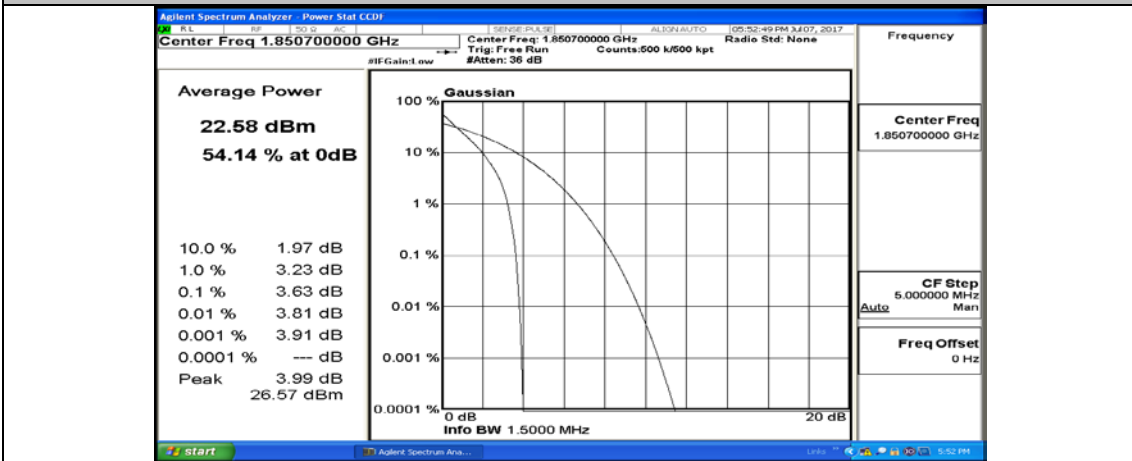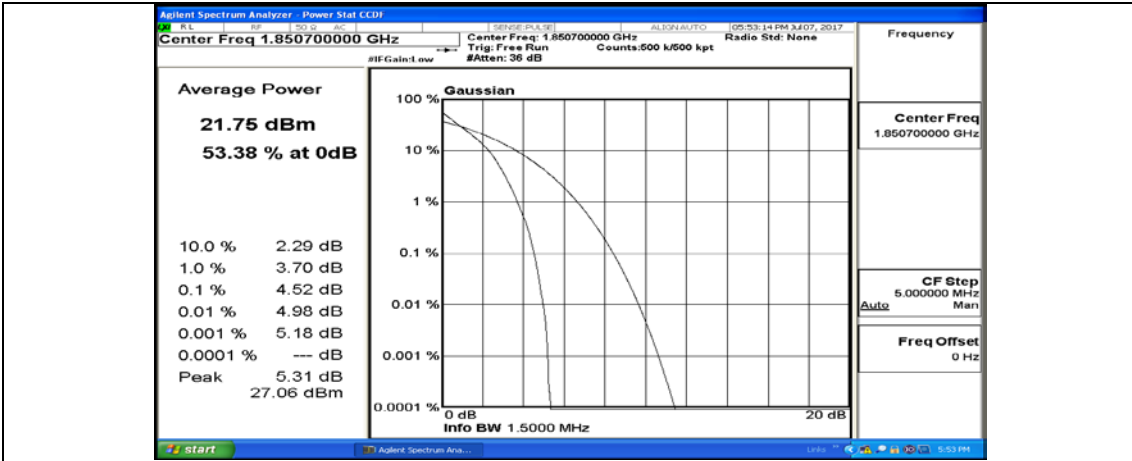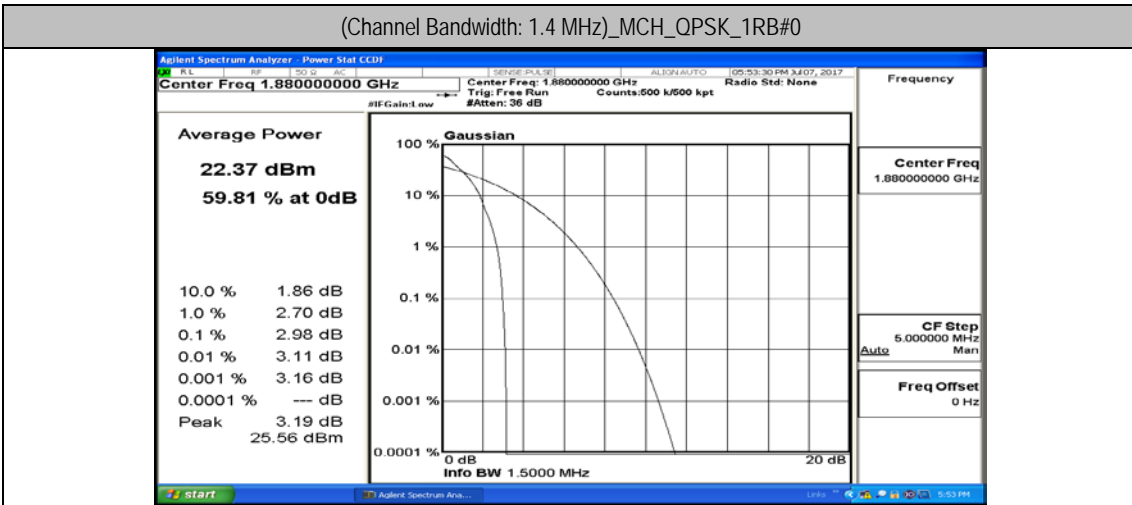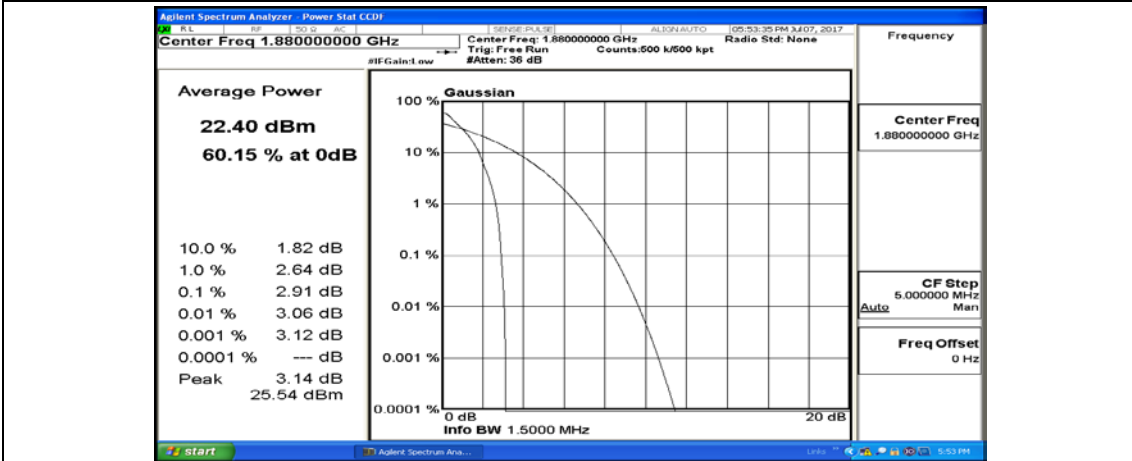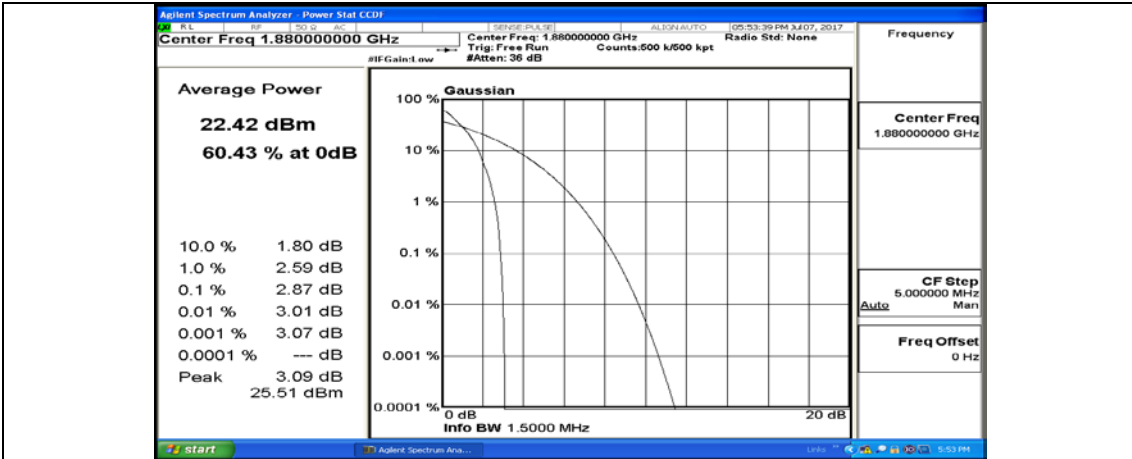| (Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#0 |
|---|
| |
| (Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#3 |
| |
| (Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#5 |
| |
| (Channel Bandwidth: 1.4 MHz)_LCH_QPSK_3RB#0 |

(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

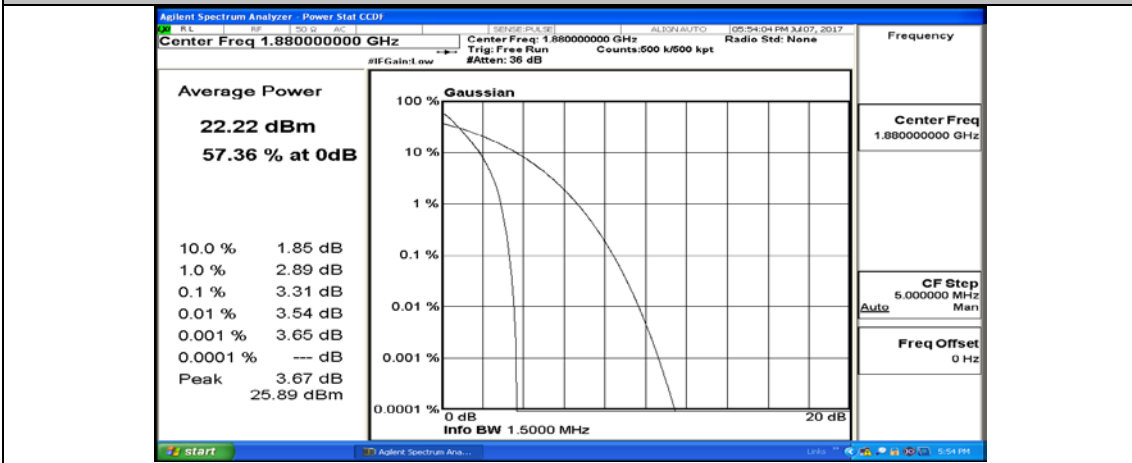| (Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#5 |
| --- |

(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

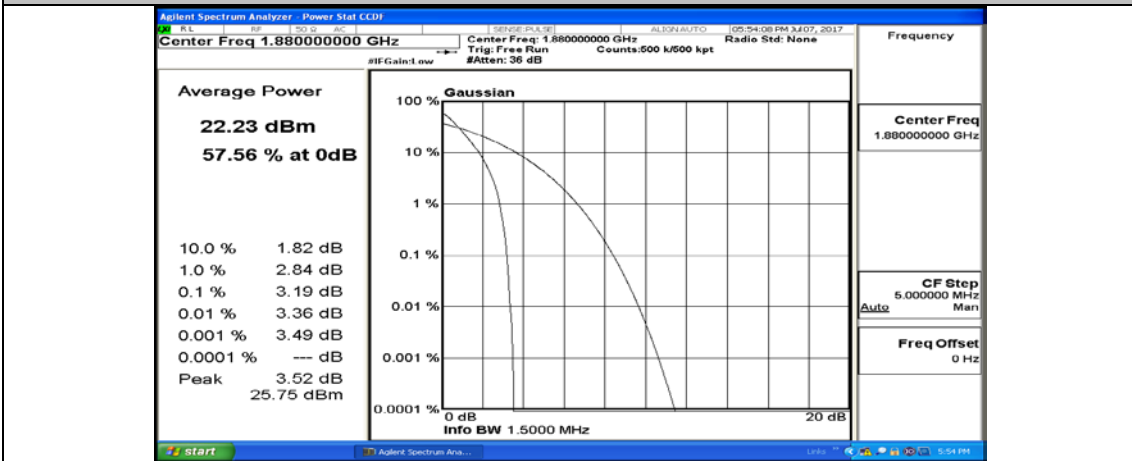(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#3

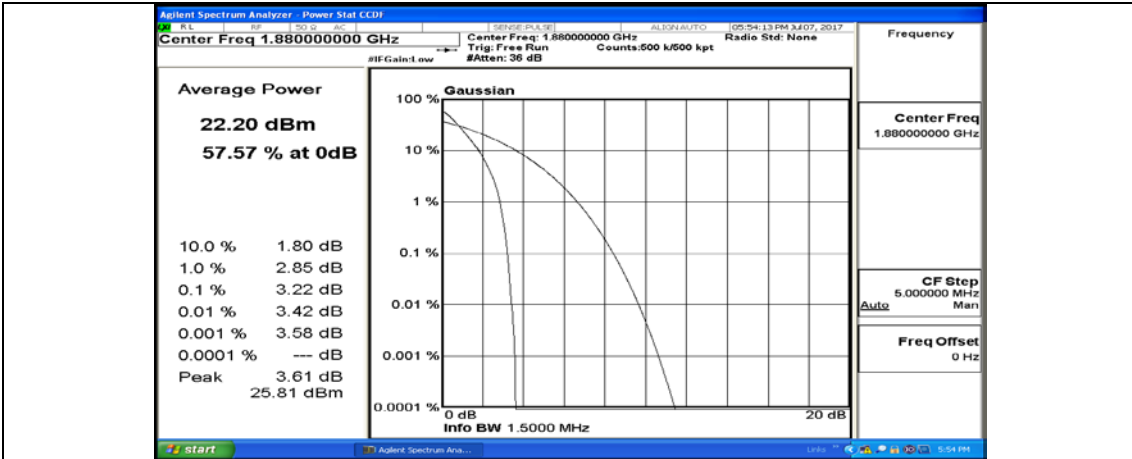(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#5
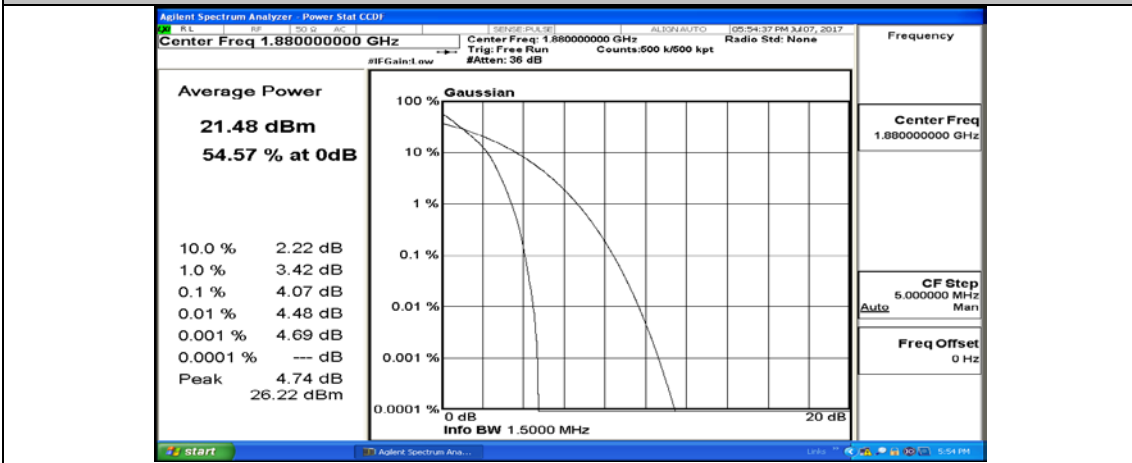

(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_3RB#0
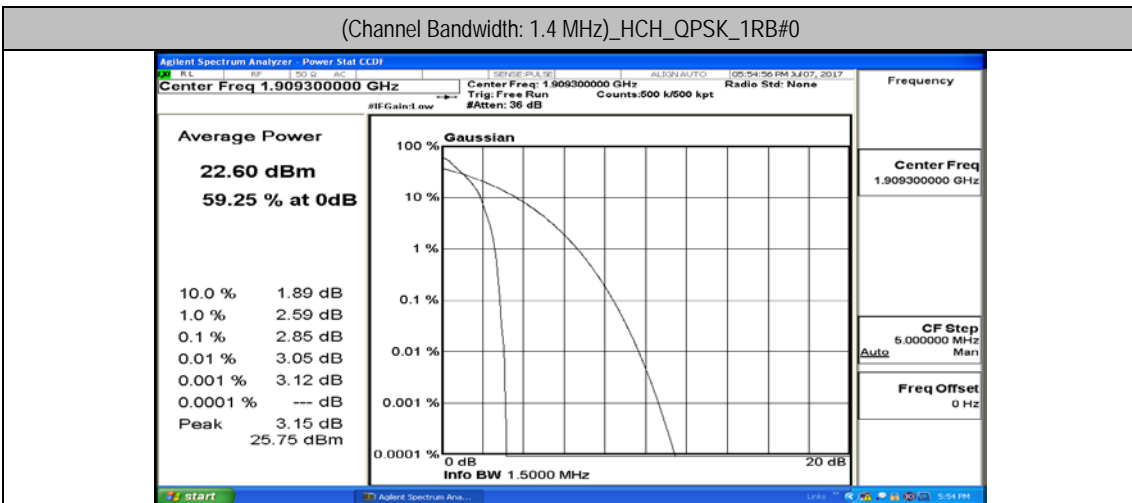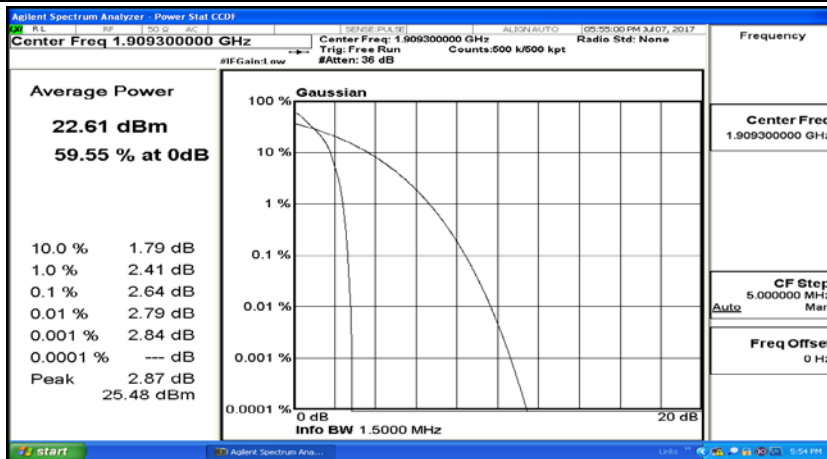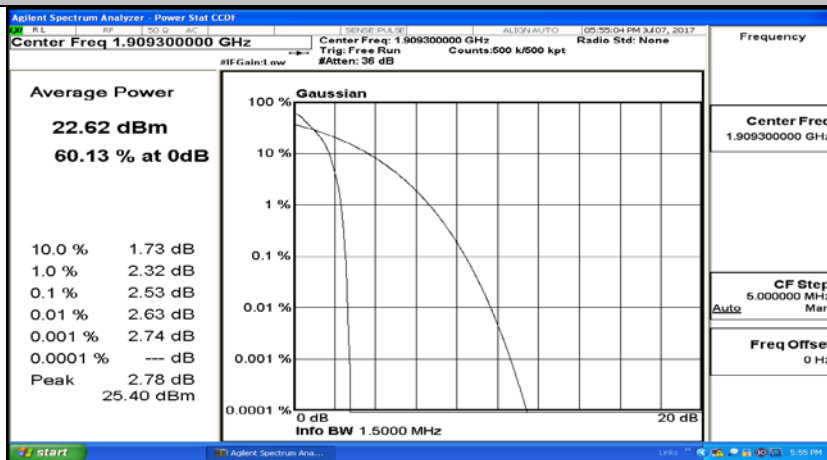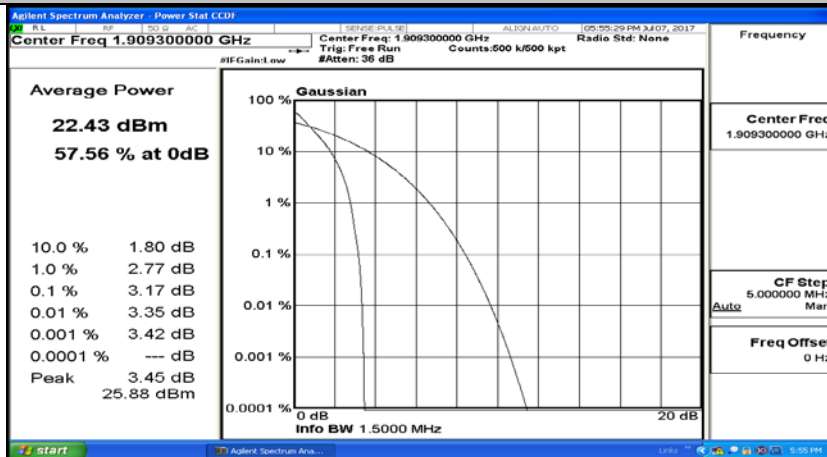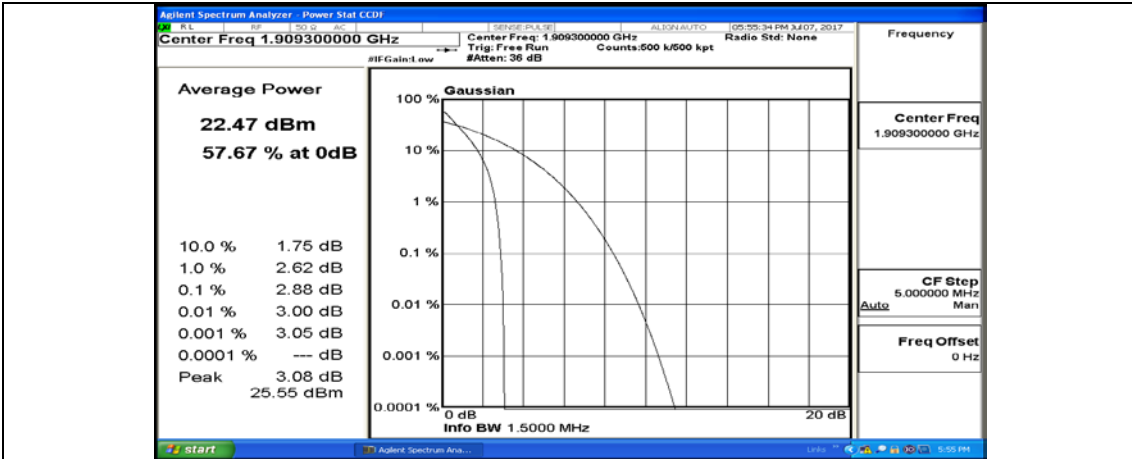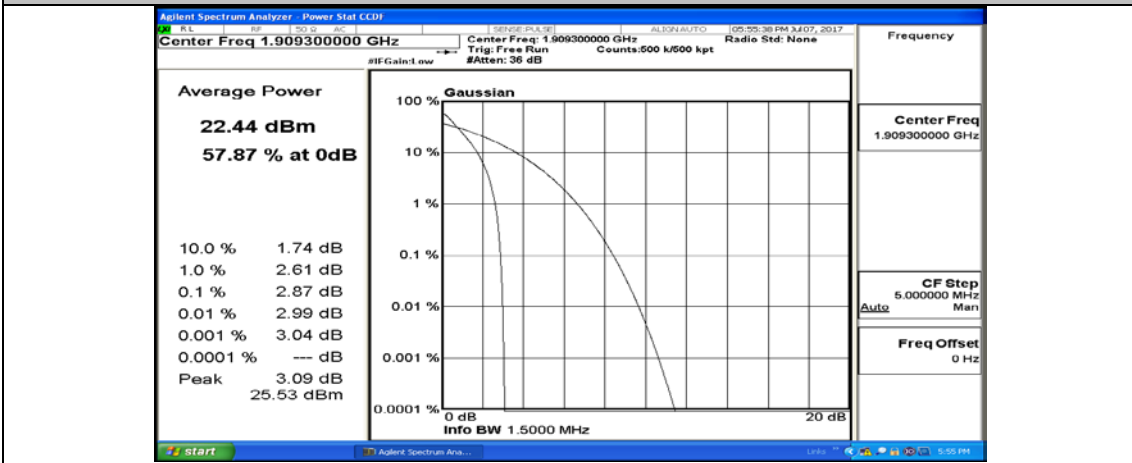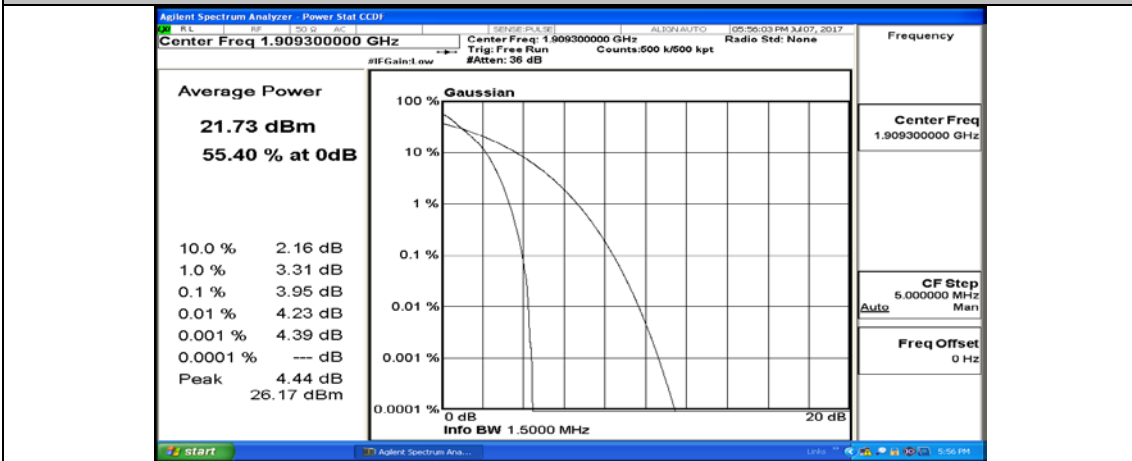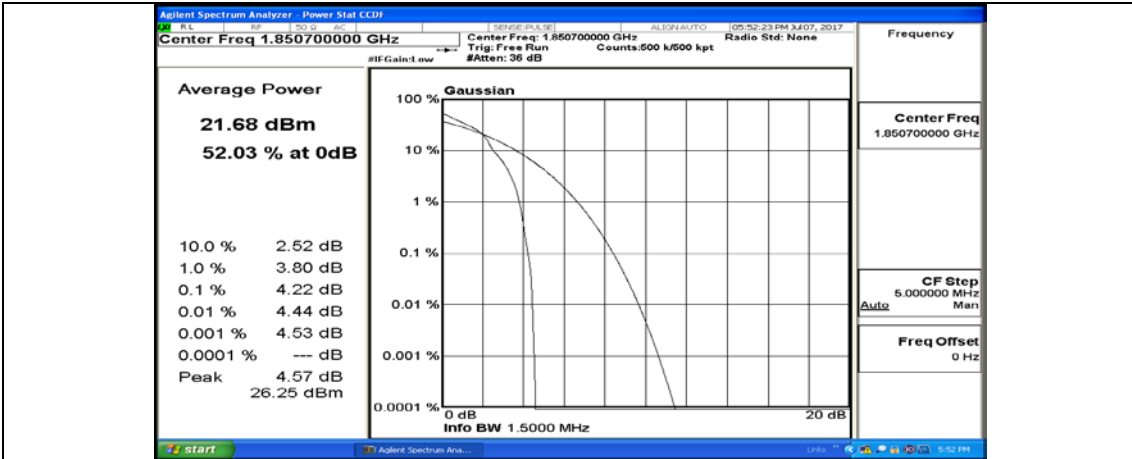

(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_3RB#2
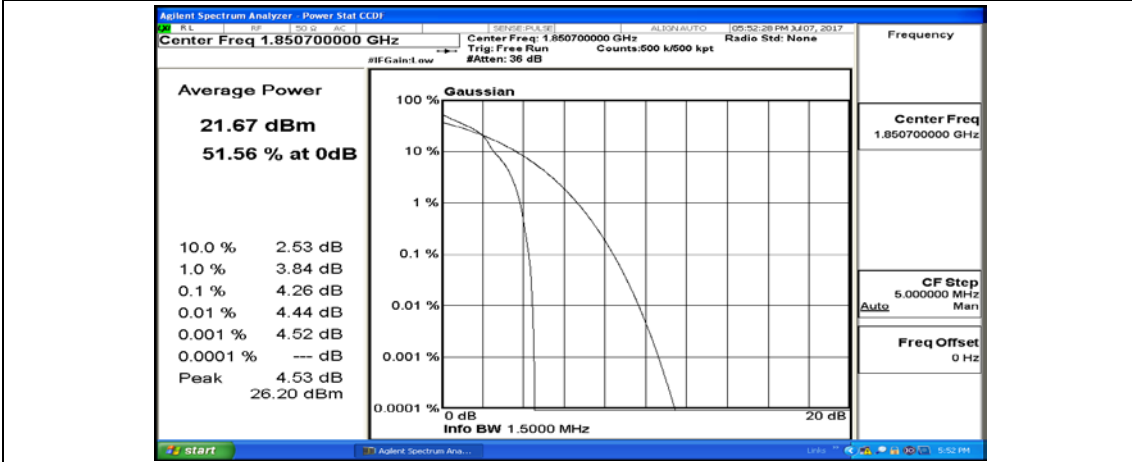
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_3RB#3

(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_6RB#0

(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#0

Agilent Spectrum Analyzer - Power Stat CCDF

LXI R L RF 50 Ω AC | SENSE:PULSE | ALIGN AUTO | 05:52:23 PM Jul 07, 2017
Center Freq 1.850700000 GHz | Center Freq: 1.850700000 GHz | Radio Std: None
Trig: Free Run | Counts:500 k/500 kpt
#IFGain:Low | #Atten: 36 dB

Frequency

Average Power

21.68 dBm

52.03 % at 0dB

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

Center Freq
1.850700000 GHz

10.0 %	2.52 dB
1.0 %	3.80 dB
0.1 %	4.22 dB
0.01 %	4.44 dB
0.001 %	4.53 dB
0.0001 %	--- dB
Peak	4.57 dB
	26.25 dBm

0 dB | Info BW 1.5000 MHz | 20 dB

CF Step
5.000000 MHz
Auto | Man

Freq Offset
0 Hz

start | Agilent Spectrum Ana... | Links | 5:52 PM

(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#3

Agilent Spectrum Analyzer - Power Stat CCDF

LXI R L RF 50 Ω AC | SENSE:PULSE | ALIGN AUTO | 05:52:28 PM Jul 07, 2017
Center Freq 1.850700000 GHz | Center Freq: 1.850700000 GHz | Radio Std: None
Trig: Free Run | Counts:500 k/500 kpt
#IFGain:Low | #Atten: 36 dB

Frequency

Average Power

21.67 dBm

51.56 % at 0dB

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

Center Freq
1.850700000 GHz

10.0 %	2.53 dB
1.0 %	3.84 dB
0.1 %	4.26 dB
0.01 %	4.44 dB
0.001 %	4.52 dB
0.0001 %	--- dB
Peak	4.53 dB
	26.20 dBm

0 dB | Info BW 1.5000 MHz | 20 dB

CF Step
5.000000 MHz
Auto | Man

Freq Offset
0 Hz

start | Agilent Spectrum Ana... | Links | 5:52 PM

(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#5

Agilent Spectrum Analyzer - Power Stat CCDF

LXI R L RF 50 Ω AC | SENSE:PULSE | ALIGN AUTO | 05:52:32 PM Jul 07, 2017
Center Freq 1.850700000 GHz | Center Freq: 1.850700000 GHz | Radio Std: None
Trig: Free Run | Counts:500 k/500 kpt
#IFGain:Low | #Atten: 36 dB

Frequency

Average Power

21.68 dBm

51.51 % at 0dB

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

Center Freq
1.850700000 GHz

10.0 %	2.56 dB
1.0 %	3.88 dB
0.1 %	4.29 dB
0.01 %	4.53 dB
0.001 %	4.64 dB
0.0001 %	--- dB
Peak	4.65 dB
	26.33 dBm

0 dB | Info BW 1.5000 MHz | 20 dB

CF Step
5.000000 MHz
Auto | Man

Freq Offset
0 Hz

start | Agilent Spectrum Ana... | Links | 5:52 PM
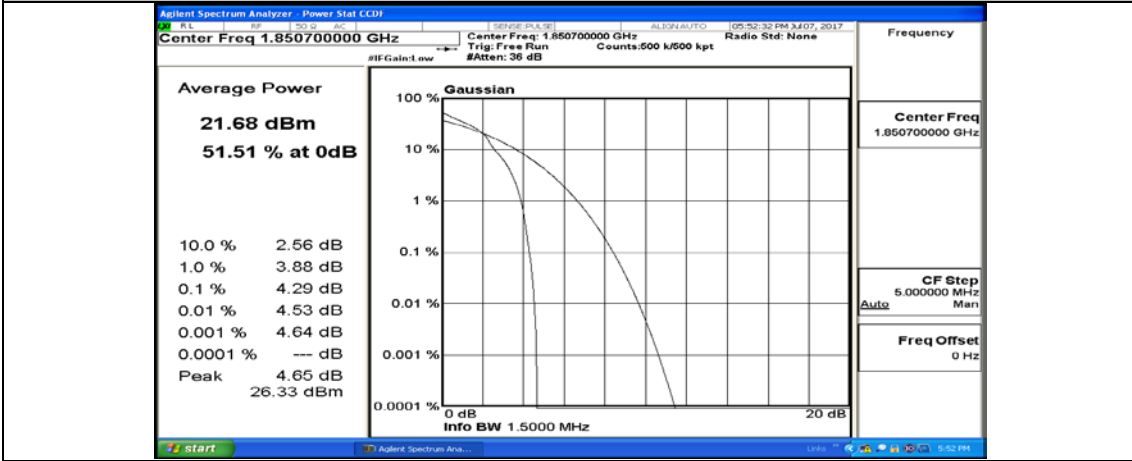
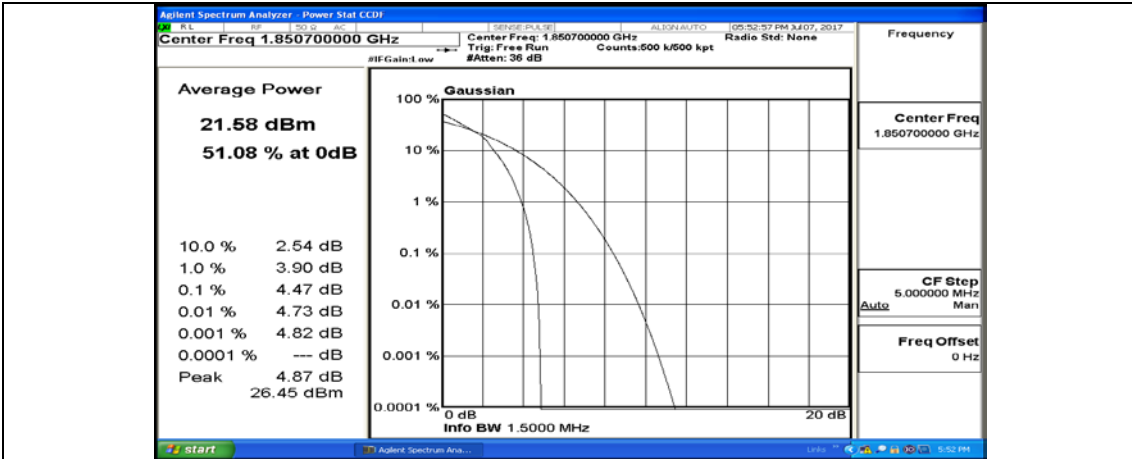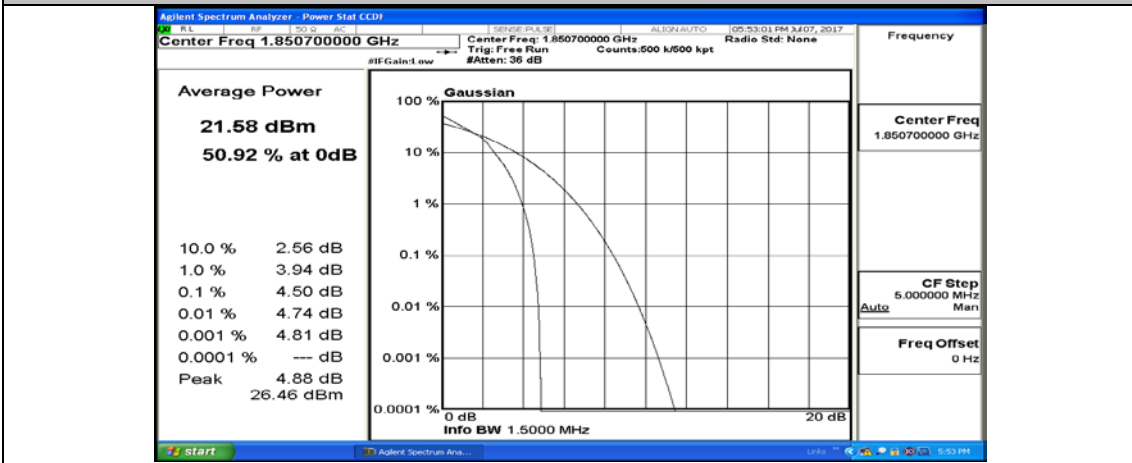**(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_3RB#0**

(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

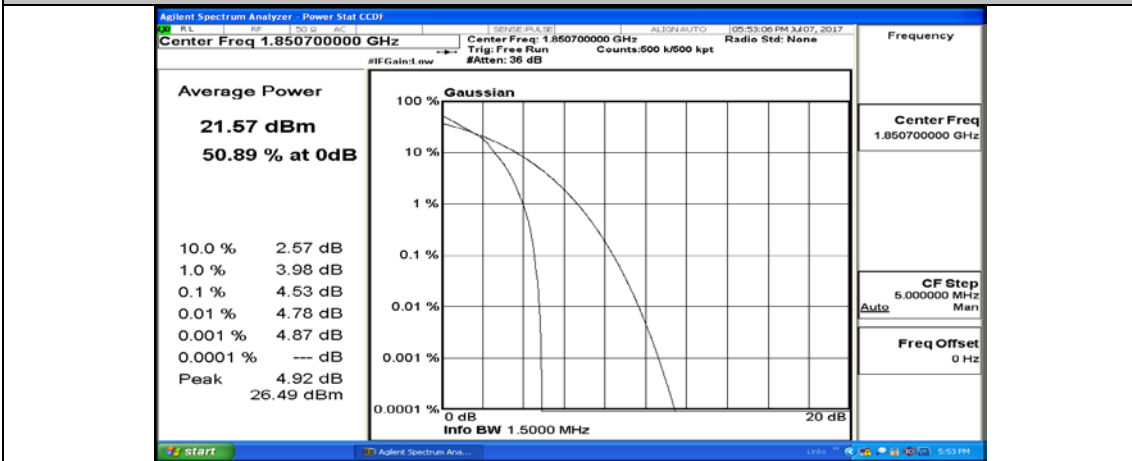| (Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#5 |
|---|

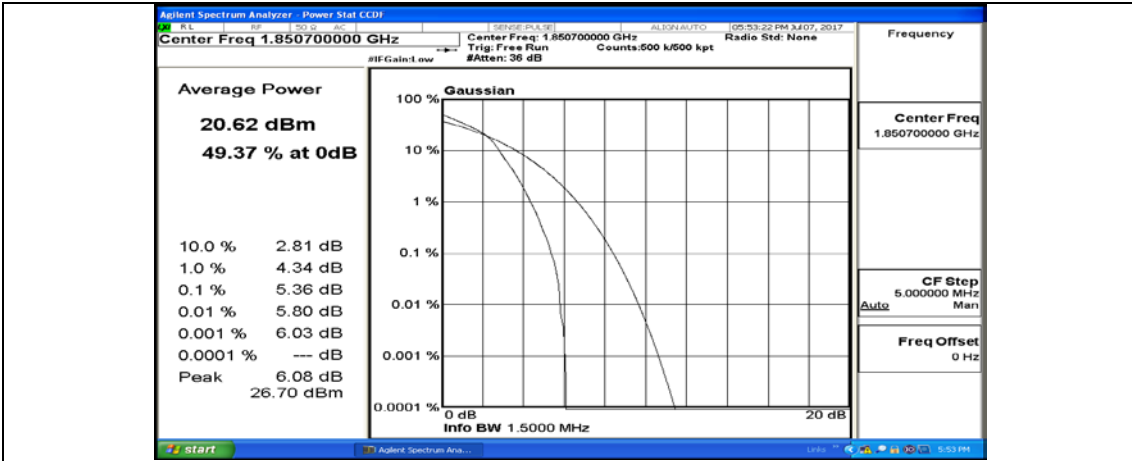(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_3RB#0

(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

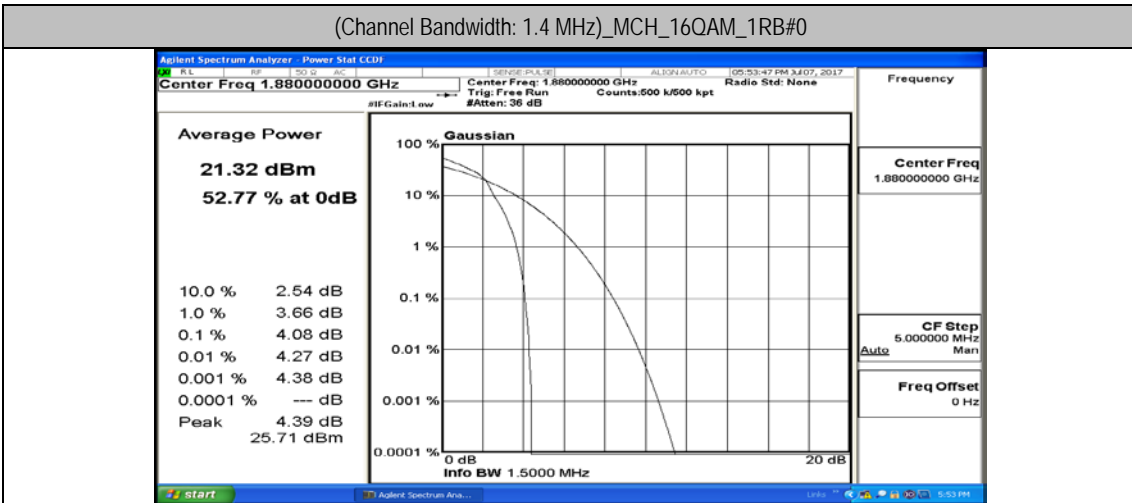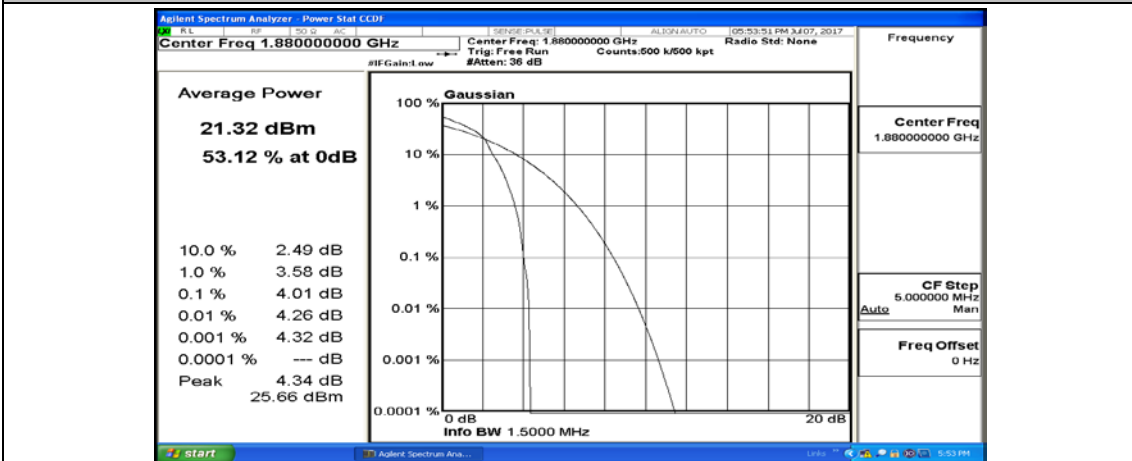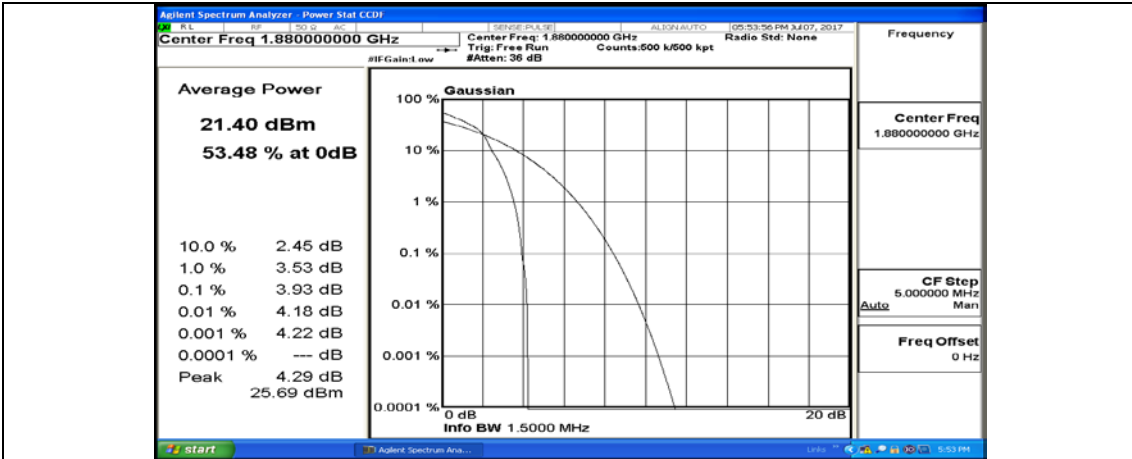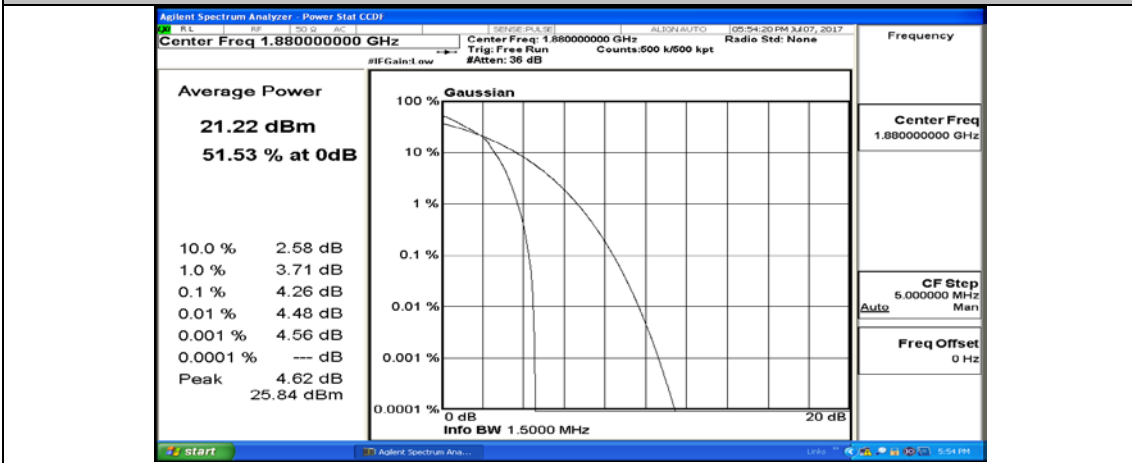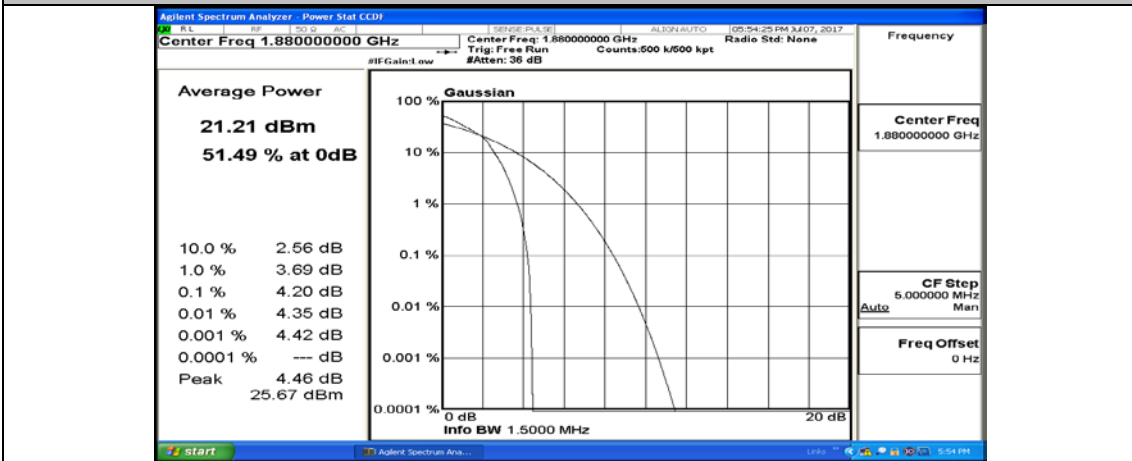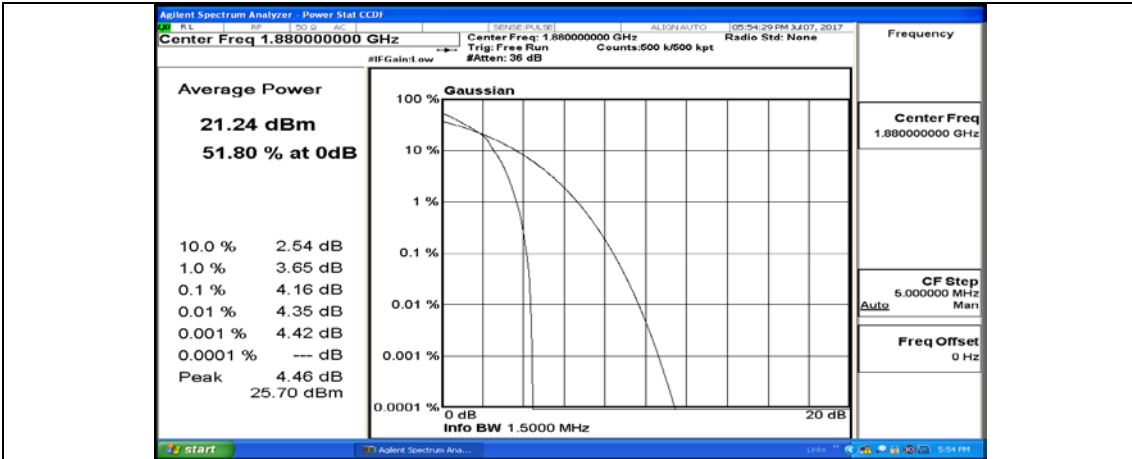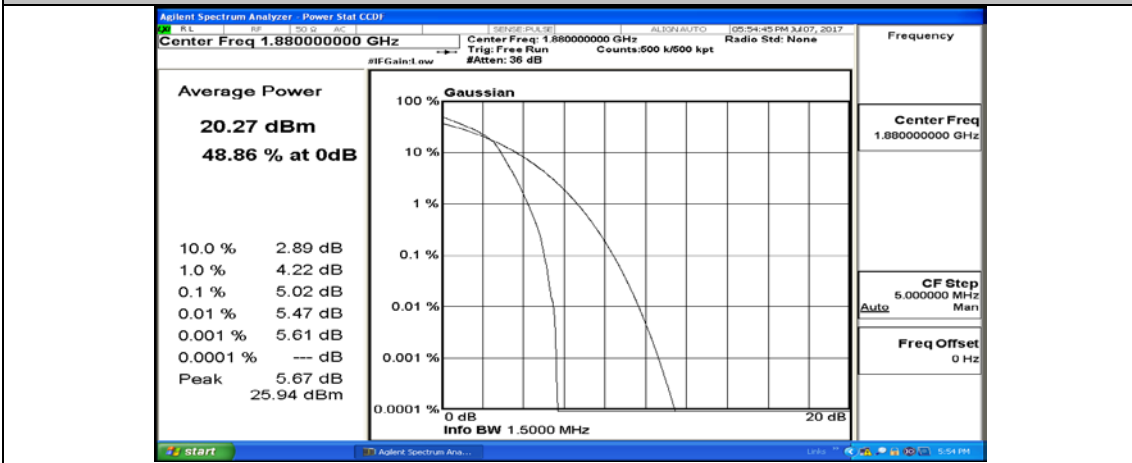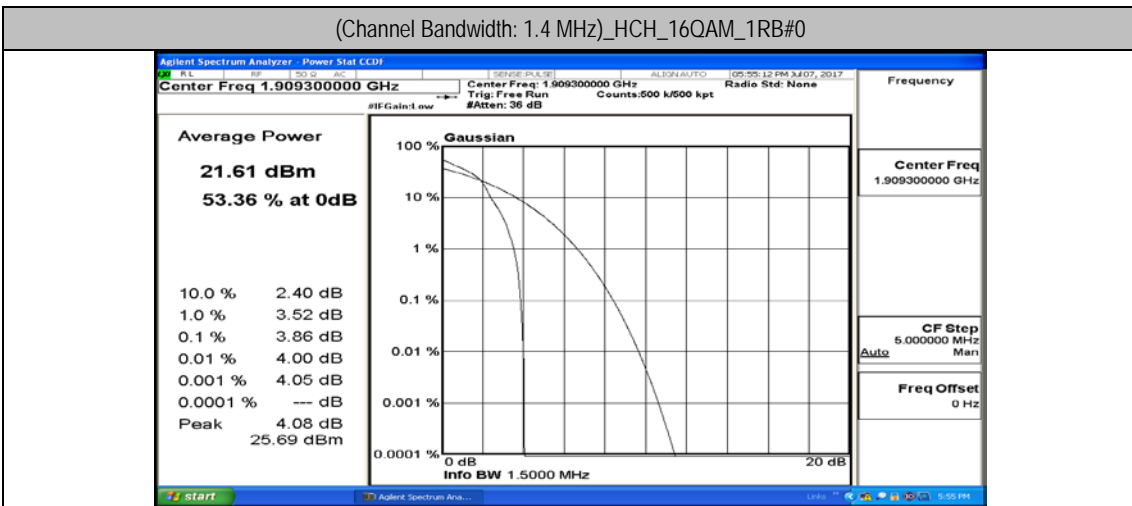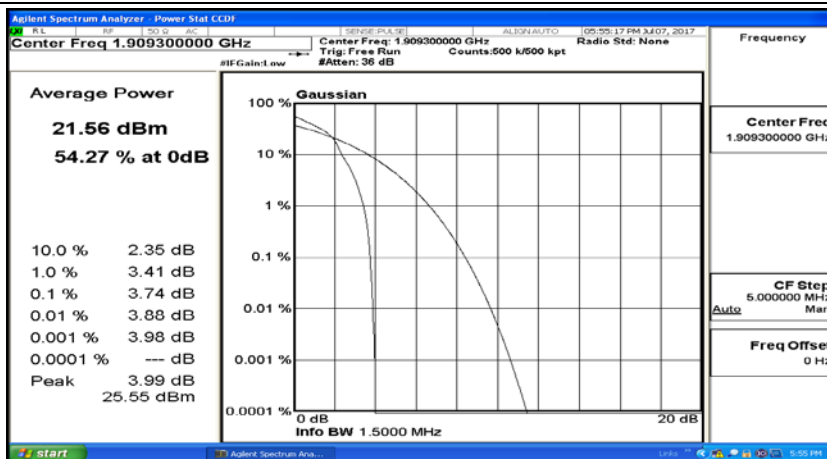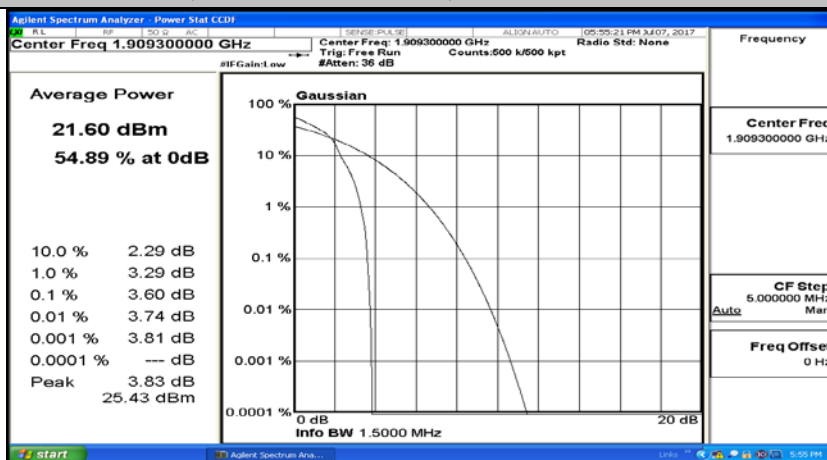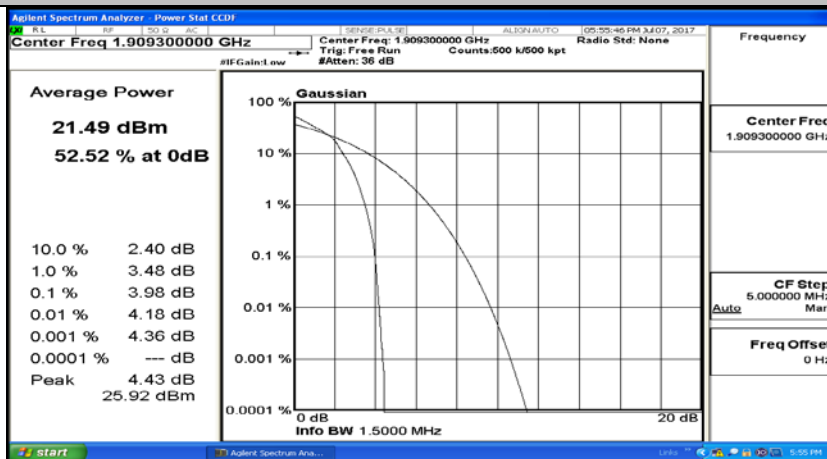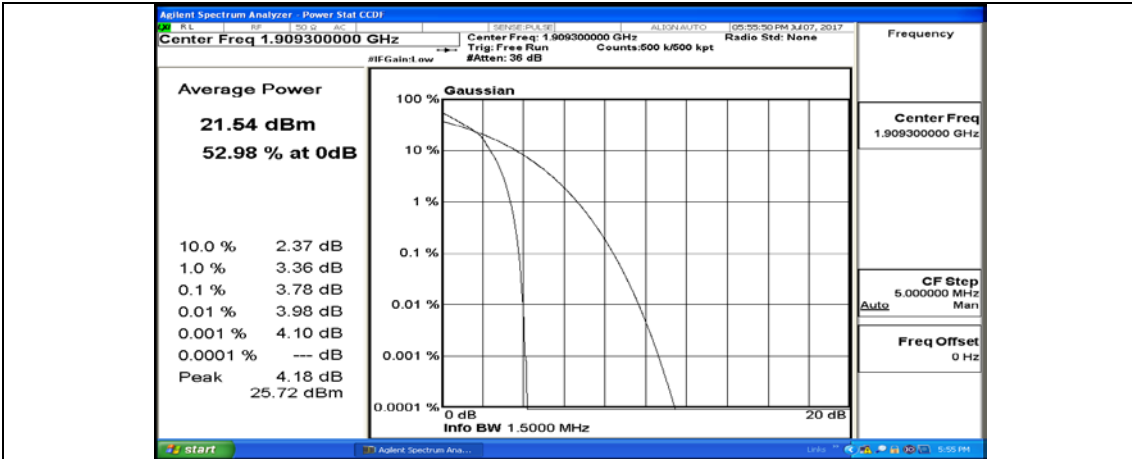(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_3RB#0

(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_3RB#2

(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_3RB#3
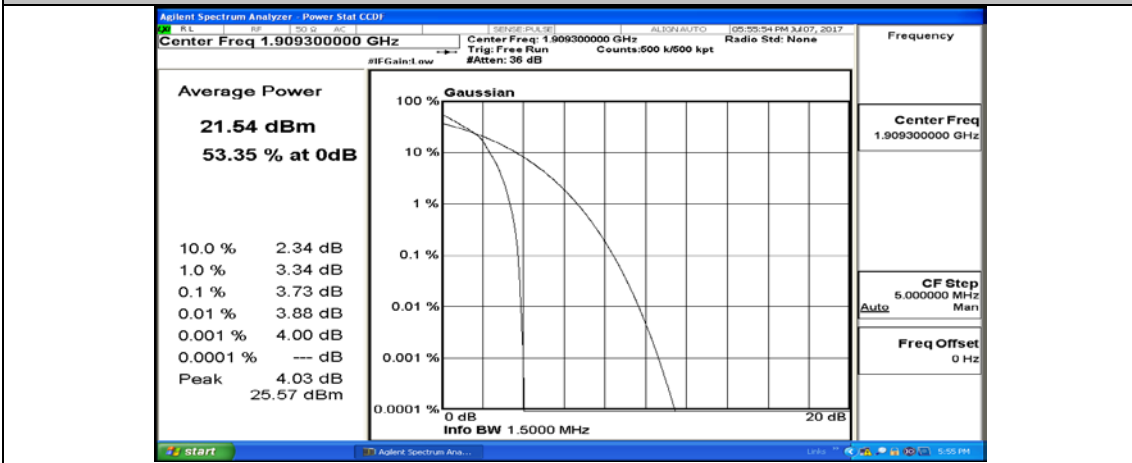
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_6RB#0

Channel Bandwidth: 3 MHz

(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#0

Agilent Spectrum Analyzer - Power Stat CCDF

Center Freq 1.851500000 GHz
Center Freq: 1.851500000 GHz Radio Std: None
Trig: Free Run Counts:500 k/500 kpt
#IFGain:Low #Atten: 36 dB
05:56:21 PM Jul 07, 2017
ALIGN AUTO SENSE:PULSE

Average Power

22.72 dBm

56.53 % at 0dB

10.0 %	2.03 dB
1.0 %	2.87 dB
0.1 %	3.17 dB
0.01 %	3.33 dB
0.001 %	3.37 dB
0.0001 %	--- dB
Peak	3.39 dB
	26.11 dBm

Gaussian
Info BW 3.0000 MHz

Frequency
Center Freq 1.851500000 GHz
CF Step 5.000000 MHz
Freq Offset 0 Hz

(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#7

Agilent Spectrum Analyzer - Power Stat CCDF

Center Freq 1.851500000 GHz
Center Freq: 1.851500000 GHz Radio Std: None
Trig: Free Run Counts:500 k/500 kpt
#IFGain:Low #Atten: 36 dB
05:56:26 PM Jul 07, 2017
ALIGN AUTO SENSE:PULSE

Average Power

22.75 dBm

55.83 % at 0dB

10.0 %	2.07 dB
1.0 %	2.96 dB
0.1 %	3.29 dB
0.01 %	3.48 dB
0.001 %	3.59 dB
0.0001 %	--- dB
Peak	3.59 dB
	26.34 dBm

Gaussian
Info BW 3.0000 MHz

Frequency
Center Freq 1.851500000 GHz
CF Step 5.000000 MHz
Freq Offset 0 Hz

(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#14

Agilent Spectrum Analyzer - Power Stat CCDF

Center Freq 1.851500000 GHz
Center Freq: 1.851500000 GHz Radio Std: None
Trig: Free Run Counts:500 k/500 kpt
#IFGain:Low #Atten: 36 dB
05:56:30 PM Jul 07, 2017
ALIGN AUTO SENSE:PULSE

Average Power

22.72 dBm

55.50 % at 0dB

10.0 %	2.14 dB
1.0 %	3.09 dB
0.1 %	3.45 dB
0.01 %	3.66 dB
0.001 %	3.73 dB
0.0001 %	--- dB
Peak	3.77 dB
	26.49 dBm

Gaussian
Info BW 3.0000 MHz

Frequency
Center Freq 1.851500000 GHz
CF Step 5.000000 MHz
Freq Offset 0 Hz

(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
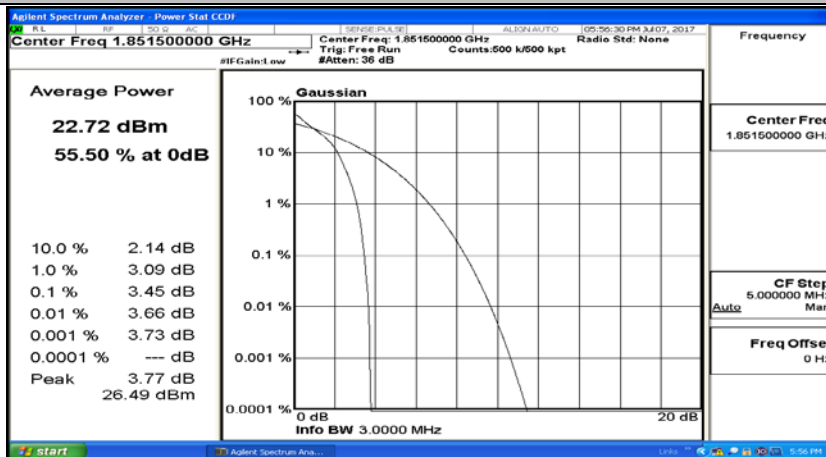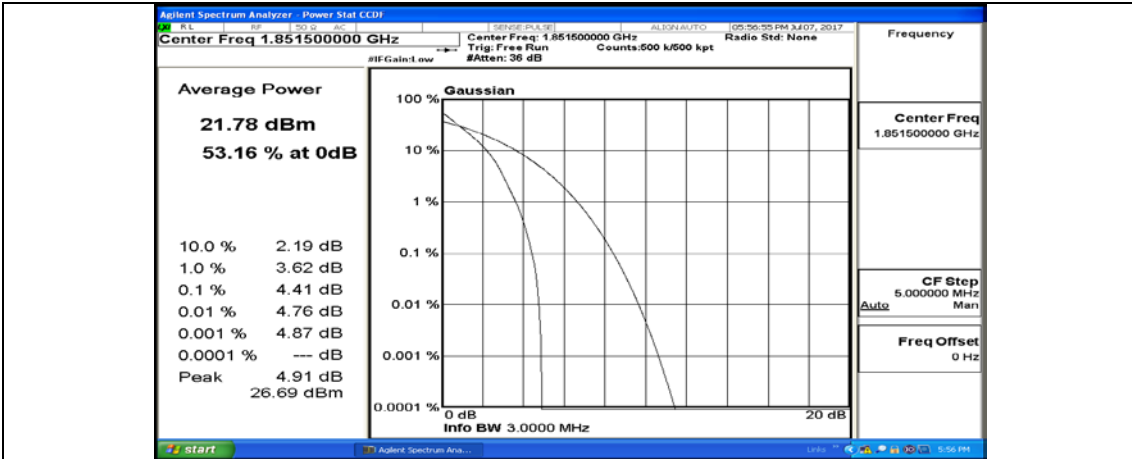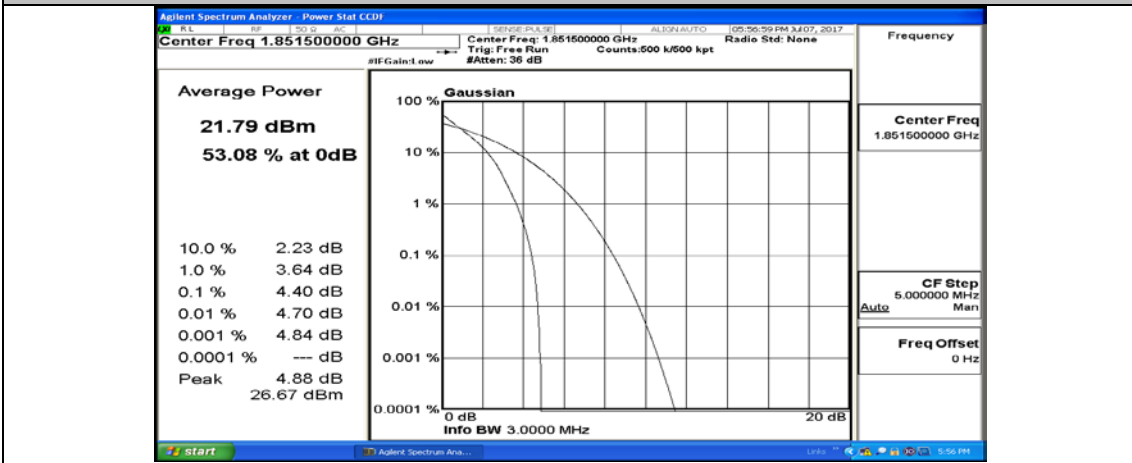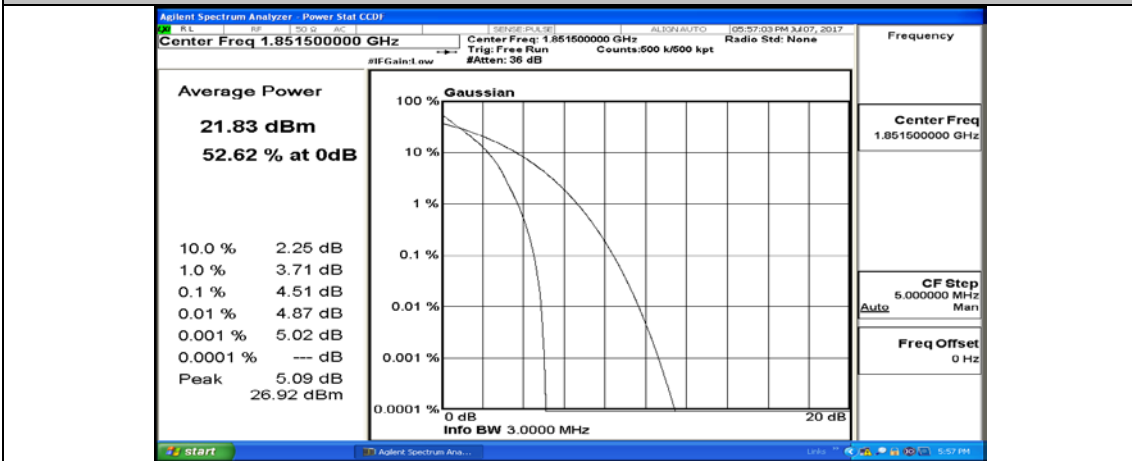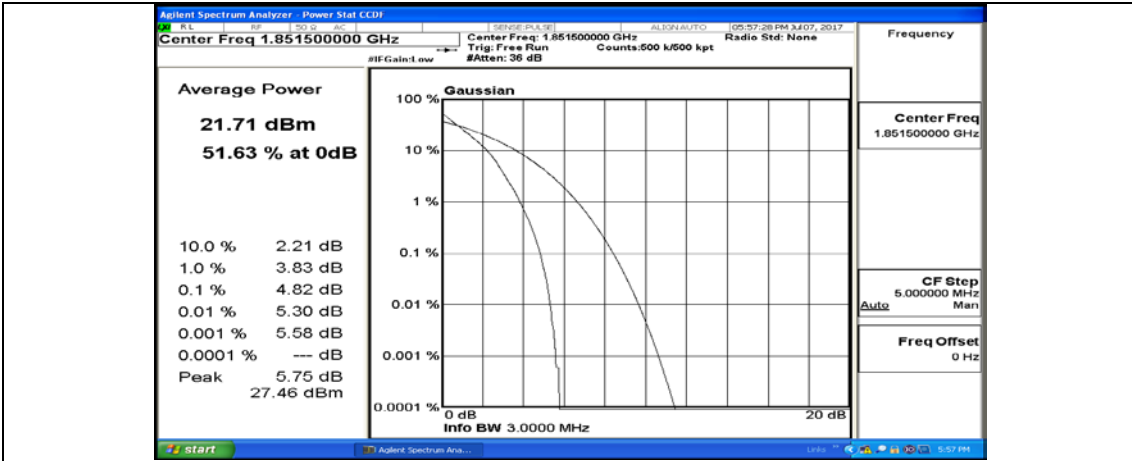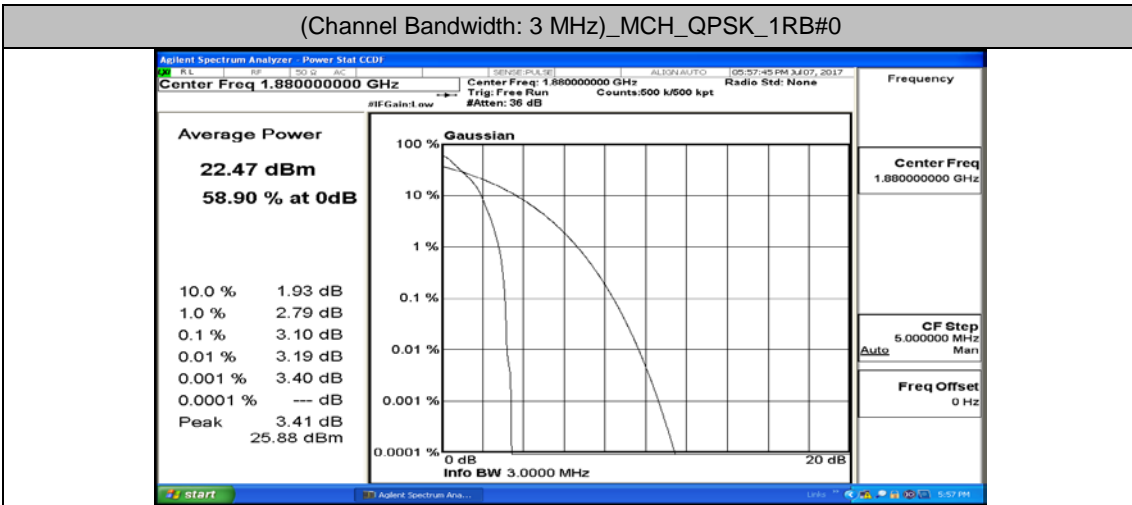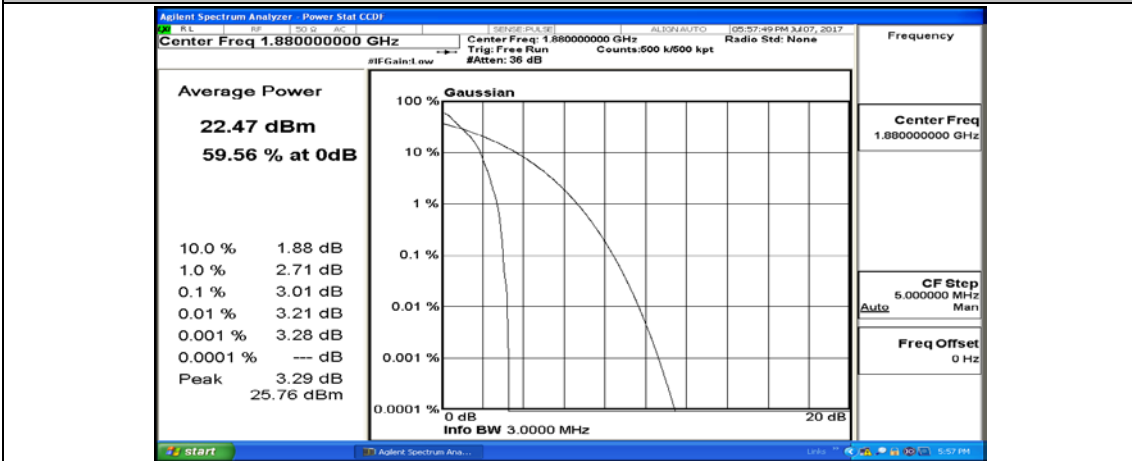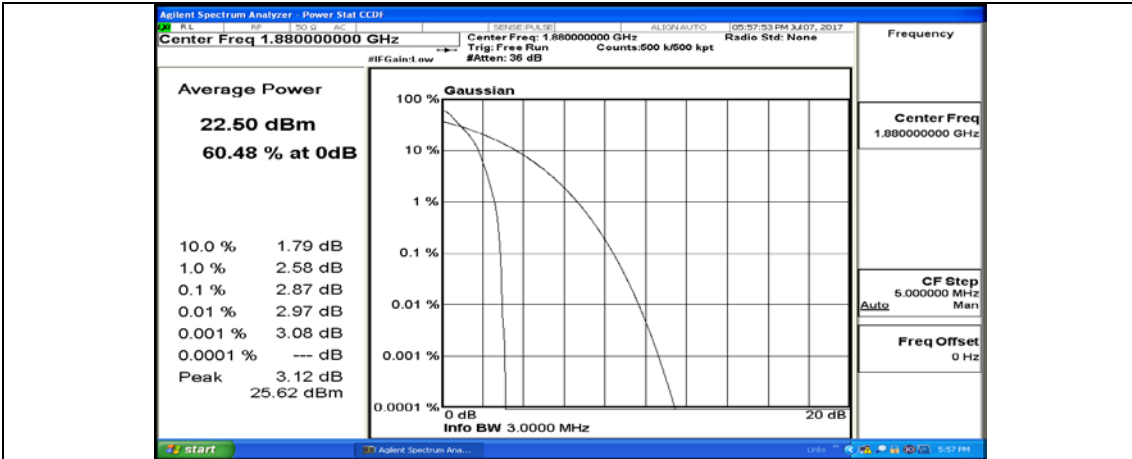

(Channel Bandwidth: 3 MHz)_MCH_QPSK_8RB#7

Agilent Spectrum Analyzer - Power Stat CCDF
LXI RL RF 50 Ω AC | SENSE:PULSE | ALIGN:AUTO | 05:58:27 PM Jul 07, 2017
Center Freq 1.880000000 GHz | Center Freq: 1.880000000 GHz | Radio Std: None
Trig: Free Run | Counts:500 k/500 kpt
#IFGain:Low | #Atten: 36 dB | Frequency

Average Power
21.55 dBm
54.91 % at 0dB

100 % Gaussian
10 %
1 %

10.0 %   2.12 dB   0.1 %
1.0 %   3.24 dB
0.1 %   3.89 dB
0.01 %   4.20 dB   0.01 %
0.001 %   4.34 dB
0.0001 %   --- dB   0.001 %
Peak   4.41 dB
           25.96 dBm   0.0001 % 0 dB   20 dB
                         Info BW 3.0000 MHz

Center Freq 1.880000000 GHz
CF Step 5.000000 MHz Auto / Man
Freq Offset 0 Hz

start | Agilent Spectrum Ana... | Links | 5:58 PM

(Channel Bandwidth: 3 MHz)_MCH_QPSK_15RB#0

Agilent Spectrum Analyzer - Power Stat CCDF
LXI RL RF 50 Ω AC | SENSE:PULSE | ALIGN:AUTO | 05:58:52 PM Jul 07, 2017
Center Freq 1.880000000 GHz | Center Freq: 1.880000000 GHz | Radio Std: None
Trig: Free Run | Counts:500 k/500 kpt
#IFGain:Low | #Atten: 36 dB | Frequency

Average Power
21.38 dBm
52.83 % at 0dB

100 % Gaussian
10 %
1 %

10.0 %   2.18 dB   0.1 %
1.0 %   3.59 dB
0.1 %   4.45 dB
0.01 %   4.89 dB   0.01 %
0.001 %   5.27 dB
0.0001 %   --- dB   0.001 %
Peak   5.41 dB
           26.79 dBm   0.0001 % 0 dB   20 dB
                         Info BW 3.0000 MHz

Center Freq 1.880000000 GHz
CF Step 5.000000 MHz Auto / Man
Freq Offset 0 Hz

start | Agilent Spectrum Ana... | Links | 5:58 PM

(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#0

Agilent Spectrum Analyzer - Power Stat CCDF
LXI RL RF 50 Ω AC | SENSE:PULSE | ALIGN:AUTO | 05:59:09 PM Jul 07, 2017
Center Freq 1.908500000 GHz | Center Freq: 1.908500000 GHz | Radio Std: None
Trig: Free Run | Counts:500 k/500 kpt
#IFGain:Low | #Atten: 36 dB | Frequency

Average Power
22.69 dBm
57.43 % at 0dB

100 % Gaussian
10 %
1 %

10.0 %   2.00 dB   0.1 %
1.0 %   2.87 dB
0.1 %   3.18 dB
0.01 %   3.30 dB   0.01 %
0.001 %   3.35 dB
0.0001 %   --- dB   0.001 %
Peak   3.37 dB
           26.06 dBm   0.0001 % 0 dB   20 dB
                         Info BW 3.0000 MHz

Center Freq 1.908500000 GHz
CF Step 5.000000 MHz Auto / Man
Freq Offset 0 Hz

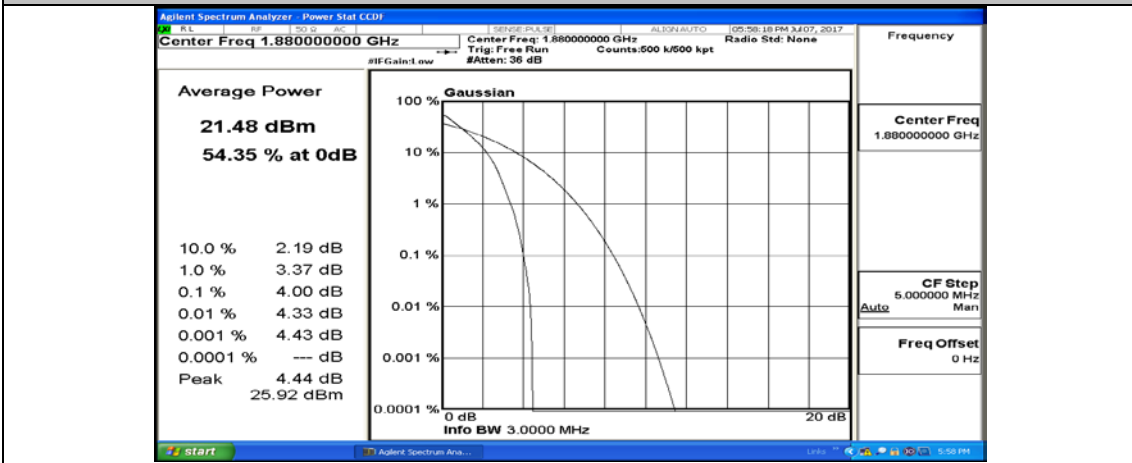start | Agilent Spectrum Ana... | Links | 5:59 PM

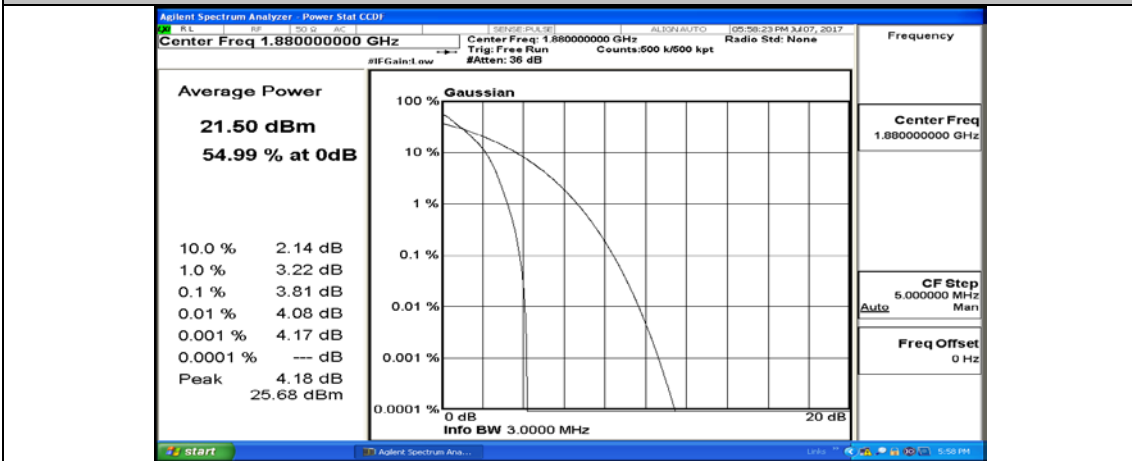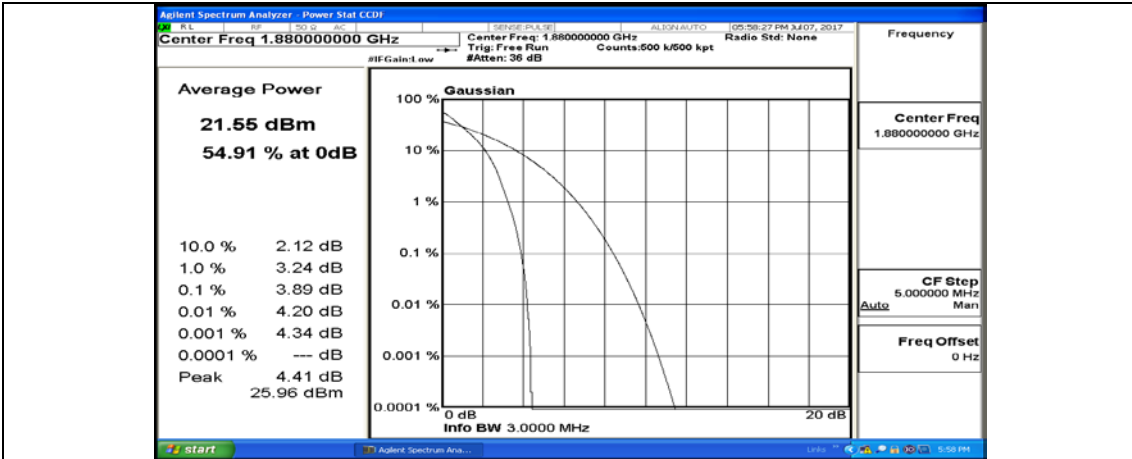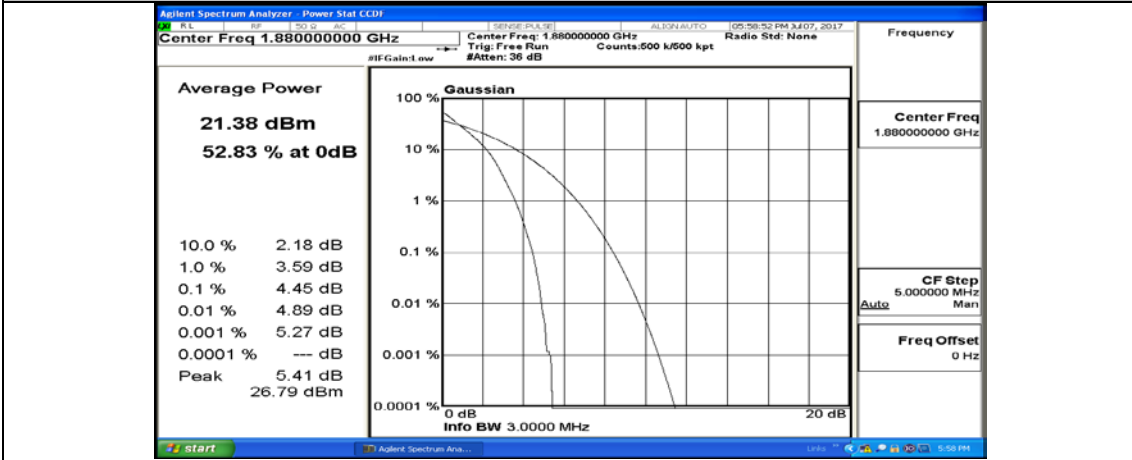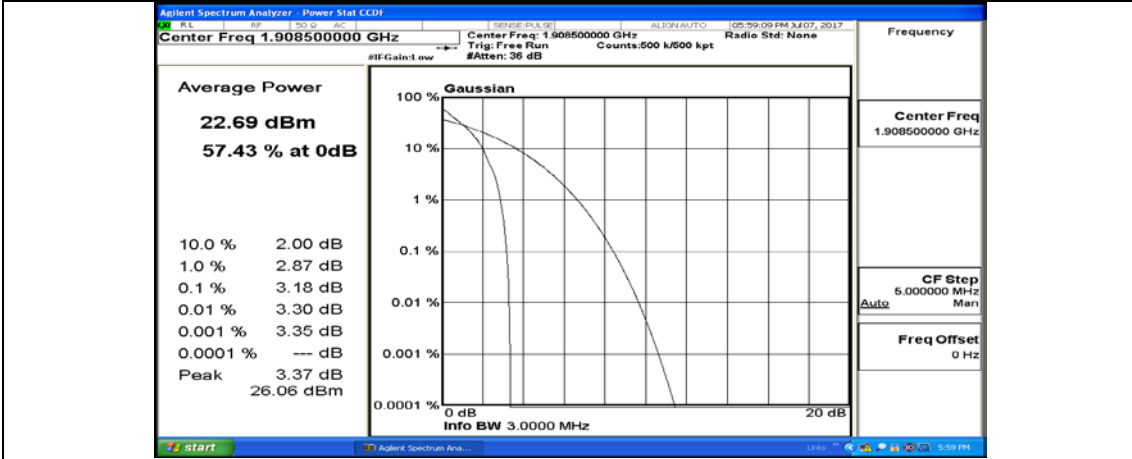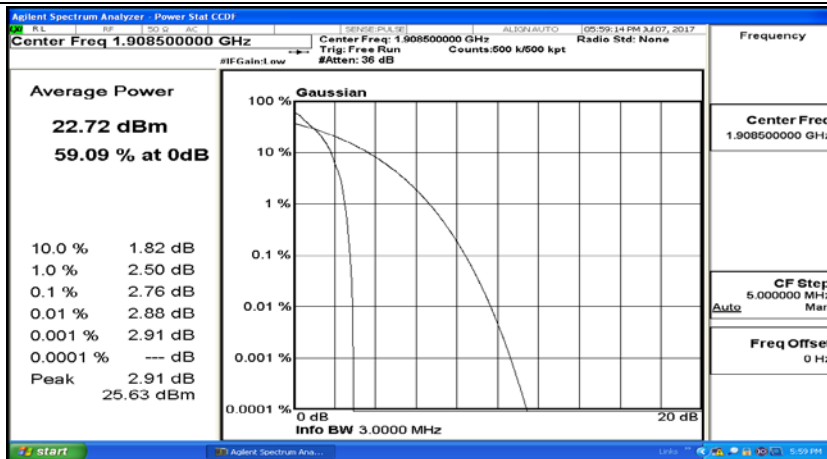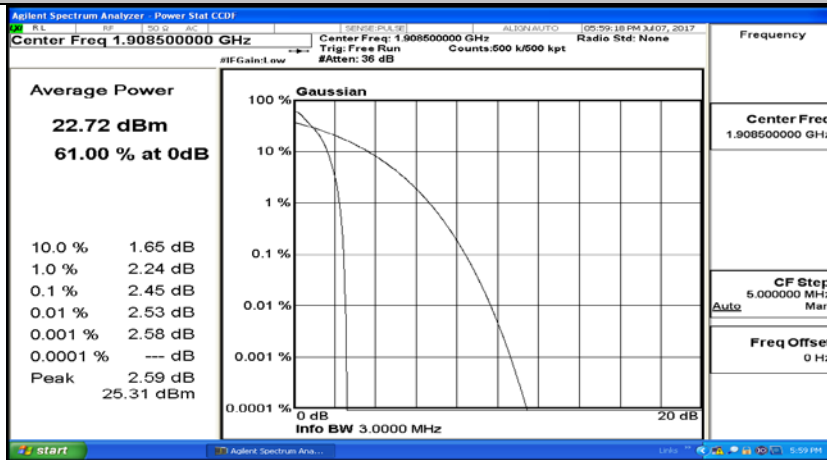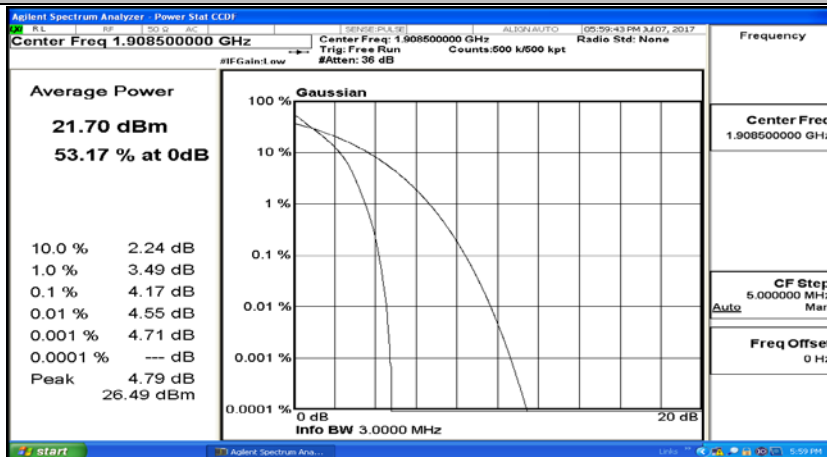**(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#7**

(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#14

(Channel Bandwidth: 3 MHz)_HCH_QPSK_8RB#0

(Channel Bandwidth: 3 MHz)_HCH_QPSK_8RB#4

Average Power

21.72 dBm

54.28 % at 0dB

10.0 %	2.16 dB
1.0 %	3.28 dB
0.1 %	3.90 dB
0.01 %	4.21 dB
0.001 %	4.31 dB
0.0001 %	--- dB
Peak	4.39 dB
	26.11 dBm

(Channel Bandwidth: 3 MHz)_HCH_QPSK_8RB#7

Average Power

21.73 dBm

54.43 % at 0dB

10.0 %	2.13 dB
1.0 %	3.24 dB
0.1 %	3.88 dB
0.01 %	4.21 dB
0.001 %	4.36 dB
0.0001 %	--- dB
Peak	4.39 dB
	26.12 dBm

(Channel Bandwidth: 3 MHz)_HCH_QPSK_15RB#0

Average Power

21.61 dBm

52.87 % at 0dB

10.0 %	2.17 dB
1.0 %	3.64 dB
0.1 %	4.56 dB
0.01 %	5.08 dB
0.001 %	5.33 dB
0.0001 %	--- dB
Peak	5.35 dB
	26.96 dBm

(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#0

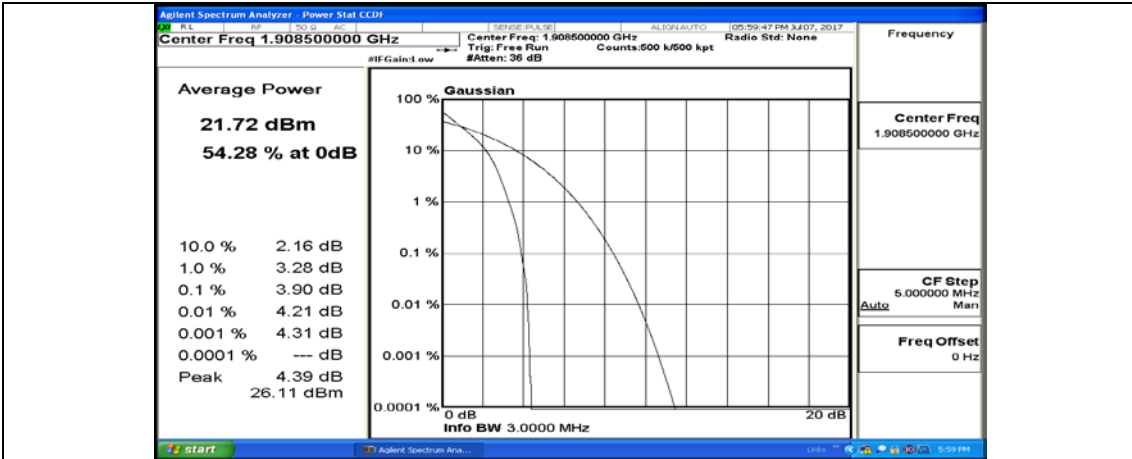(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#7

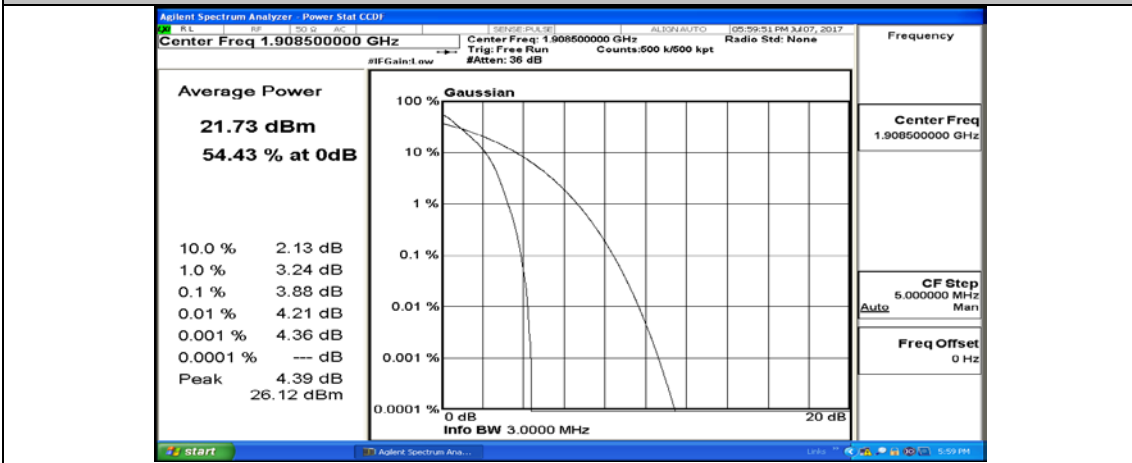(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#14
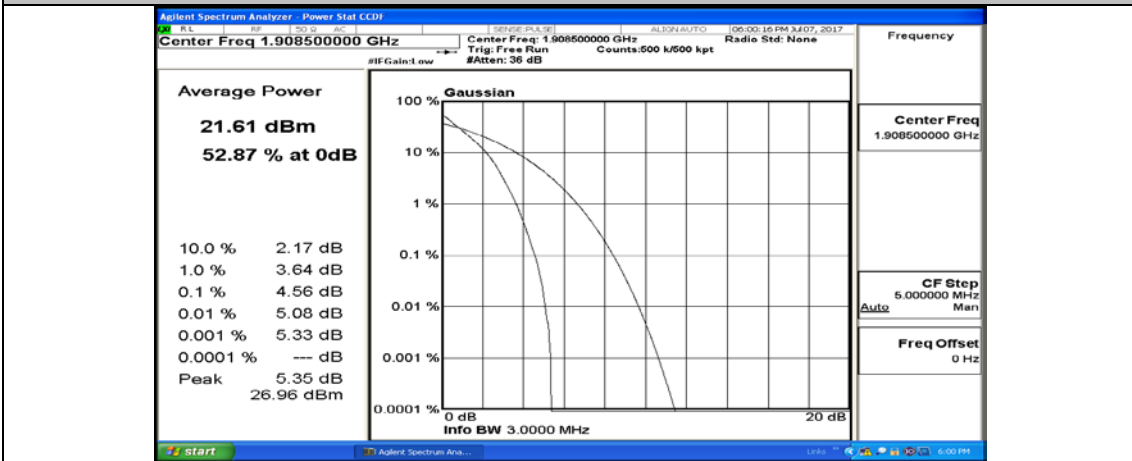

(Channel Bandwidth: 3 MHz)_LCH_16QAM_8RB#0
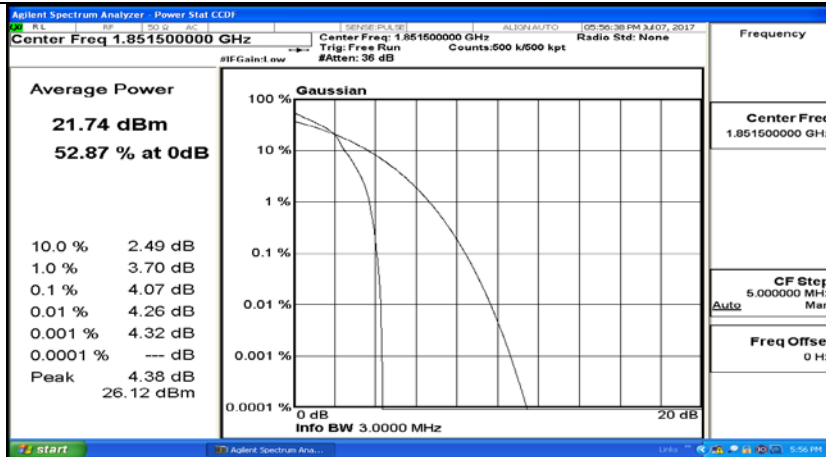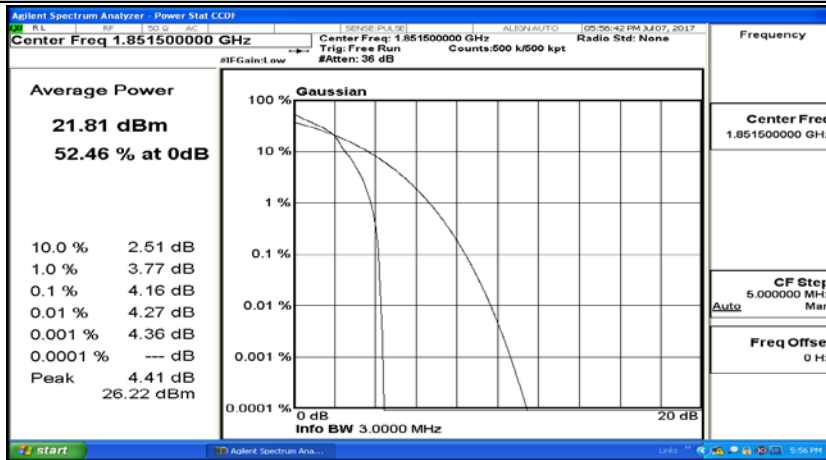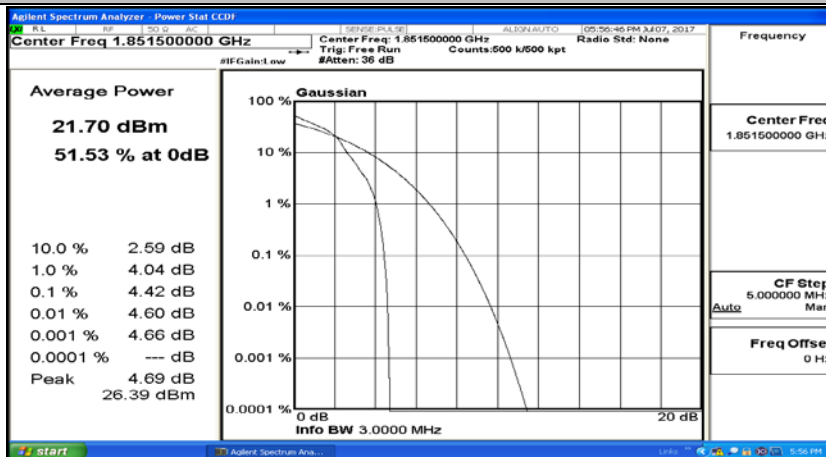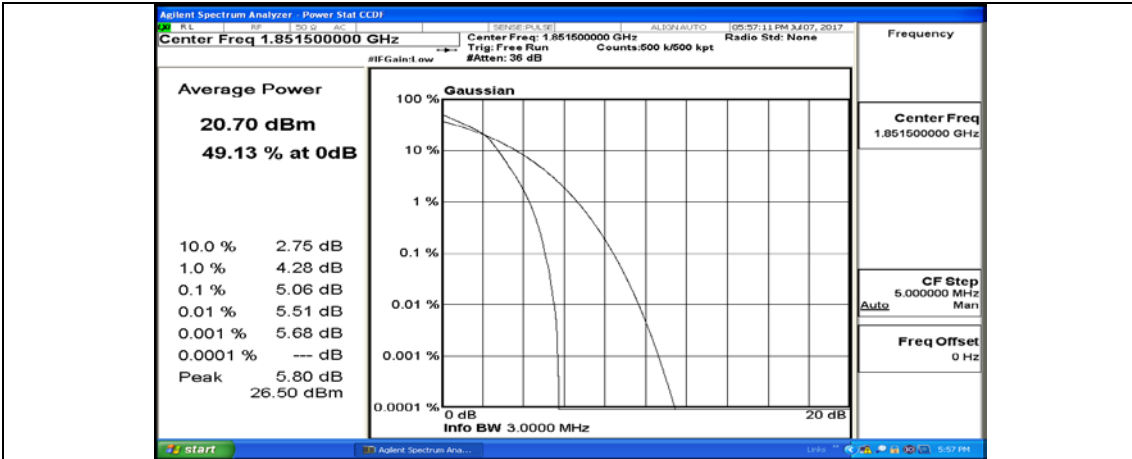
(Channel Bandwidth: 3 MHz)_LCH_16QAM_8RB#4

(Channel Bandwidth: 3 MHz)_LCH_16QAM_8RB#7

(Channel Bandwidth: 3 MHz)_LCH_16QAM_15RB#0

Agilent Spectrum Analyzer - Power Stat CCDF

Center Freq 1.851500000 GHz
#IFGain:Low
SENSE:PULSE ALIGN AUTO 05:57:36 PM Jul 07, 2017
Center Freq: 1.851500000 GHz Radio Std: None
Trig: Free Run Counts:500 k/500 kpt
#Atten: 36 dB

Frequency

Average Power

20.60 dBm

48.27 % at 0dB

10.0 %	2.79 dB
1.0 %	4.51 dB
0.1 %	5.67 dB
0.01 %	6.31 dB
0.001 %	6.75 dB
0.0001 %	--- dB
Peak	6.84 dB
	27.44 dBm

Gaussian
100 %
10 %
1 %
0.1 %
0.01 %
0.001 %
0.0001 %
0 dB 20 dB
Info BW 3.0000 MHz

Center Freq
1.851500000 GHz

CF Step
5.000000 MHz
Auto Man

Freq Offset
0 Hz

start

(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#0

Agilent Spectrum Analyzer - Power Stat CCDF

Center Freq 1.880000000 GHz
#IFGain:Low
SENSE:PULSE ALIGN AUTO 05:58:01 PM Jul 07, 2017
Center Freq: 1.880000000 GHz Radio Std: None
Trig: Free Run Counts:500 k/500 kpt
#Atten: 36 dB

Frequency

Average Power

21.44 dBm

53.06 % at 0dB

10.0 %	2.49 dB
1.0 %	3.62 dB
0.1 %	4.10 dB
0.01 %	4.27 dB
0.001 %	4.33 dB
0.0001 %	--- dB
Peak	4.33 dB
	25.77 dBm

Gaussian
100 %
10 %
1 %
0.1 %
0.01 %
0.001 %
0.0001 %
0 dB 20 dB
Info BW 3.0000 MHz

Center Freq
1.880000000 GHz

CF Step
5.000000 MHz
Auto Man

Freq Offset
0 Hz

start

(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#7

Agilent Spectrum Analyzer - Power Stat CCDF

Center Freq 1.880000000 GHz
#IFGain:Low
SENSE:PULSE ALIGN AUTO 05:58:06 PM Jul 07, 2017
Center Freq: 1.880000000 GHz Radio Std: None
Trig: Free Run Counts:500 k/500 kpt
#Atten: 36 dB

Frequency

Average Power

21.39 dBm

53.90 % at 0dB

10.0 %	2.42 dB
1.0 %	3.56 dB
0.1 %	4.02 dB
0.01 %	4.18 dB
0.001 %	4.20 dB
0.0001 %	--- dB
Peak	4.30 dB
	25.69 dBm

Gaussian
100 %
10 %
1 %
0.1 %
0.01 %
0.001 %
0.0001 %
0 dB 20 dB
Info BW 3.0000 MHz

Center Freq
1.880000000 GHz

CF Step
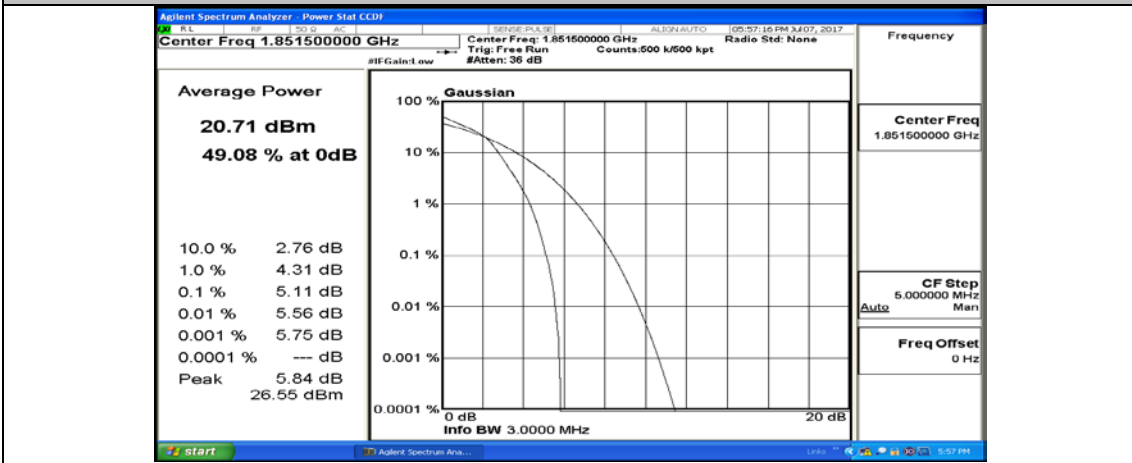5.000000 MHz
Auto Man

Freq Offset
0 Hz

start

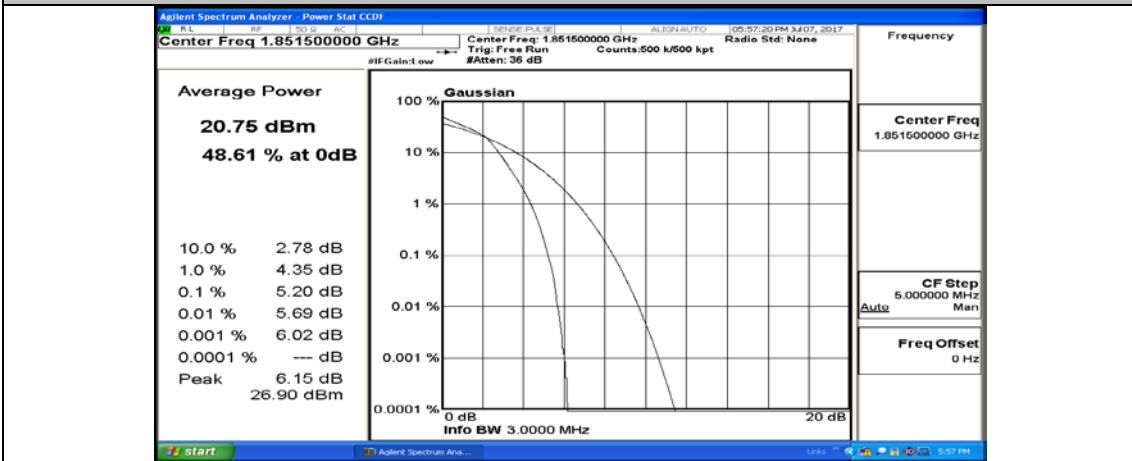**(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#14**
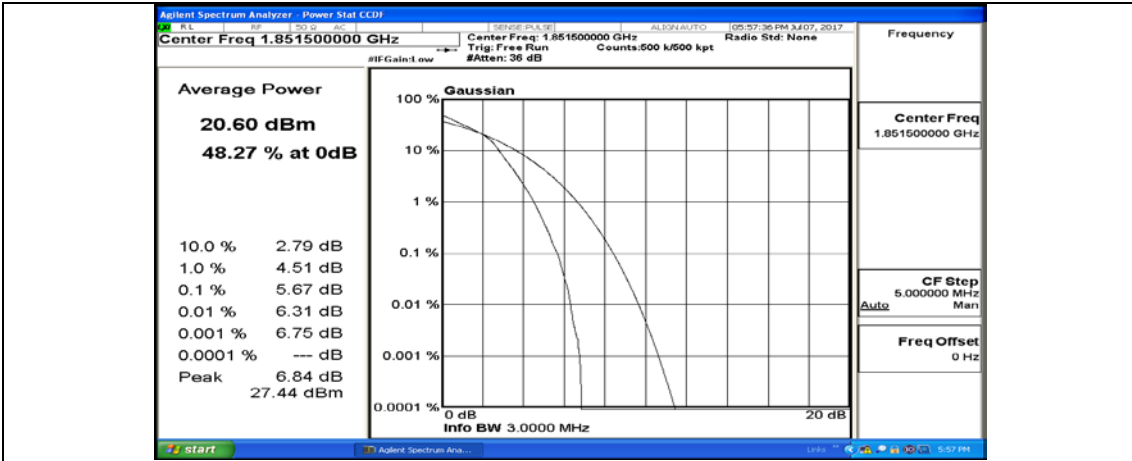
(Channel Bandwidth: 3 MHz)_MCH_16QAM_8RB#0

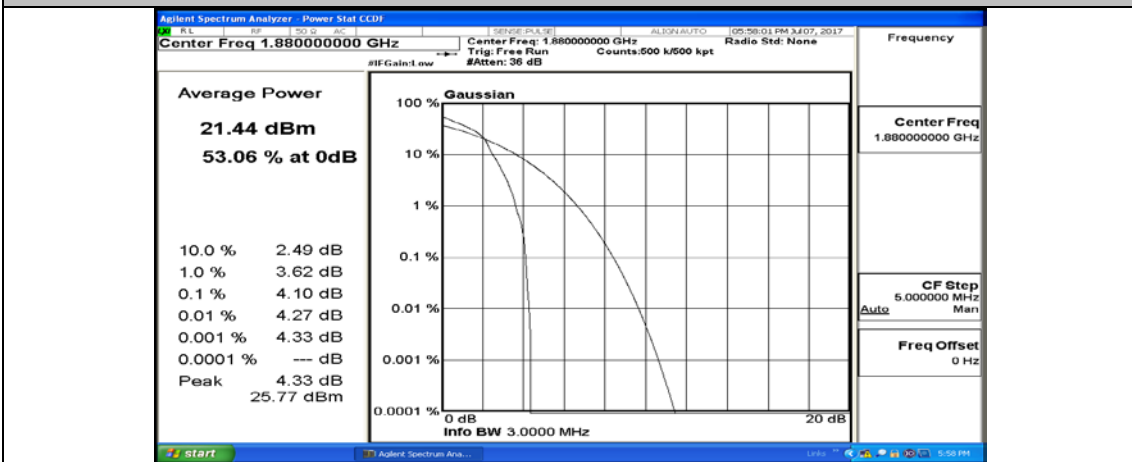(Channel Bandwidth: 3 MHz)_MCH_16QAM_8RB#4

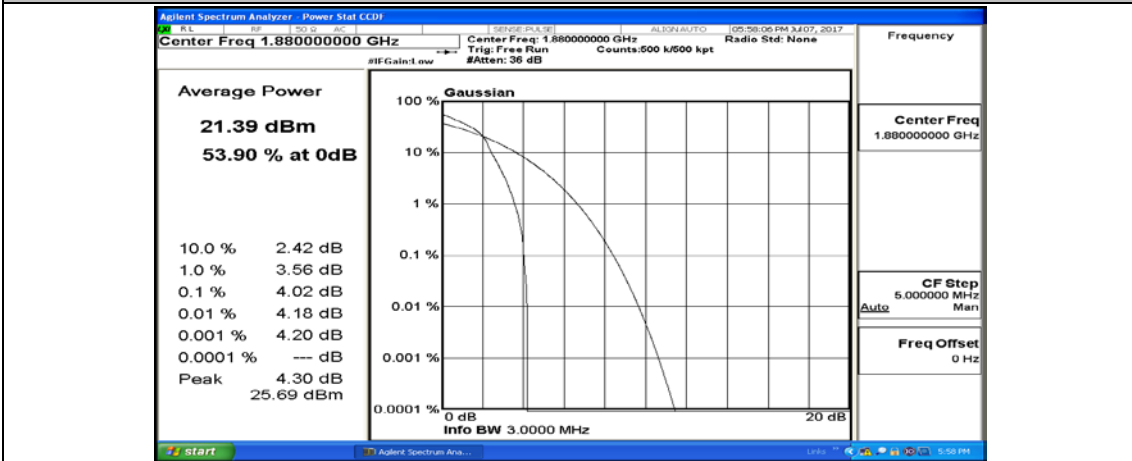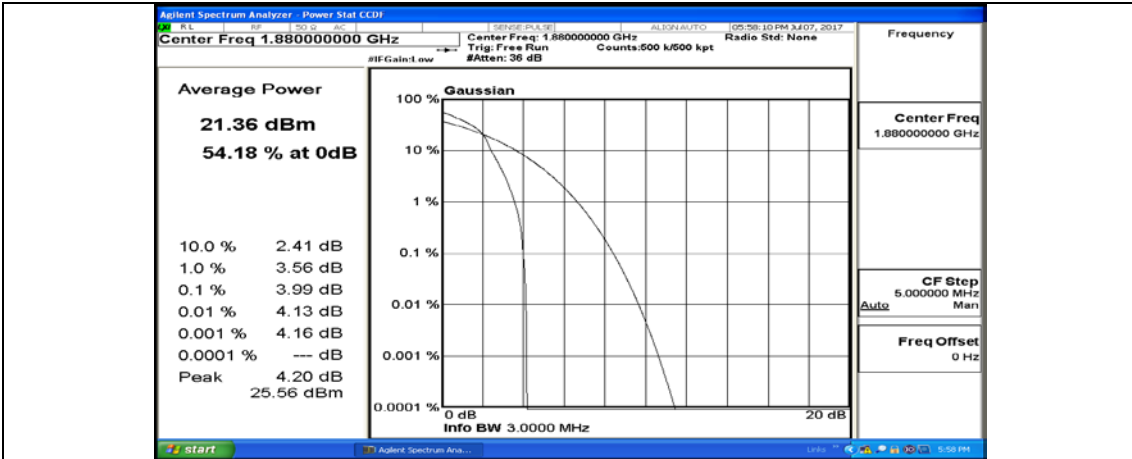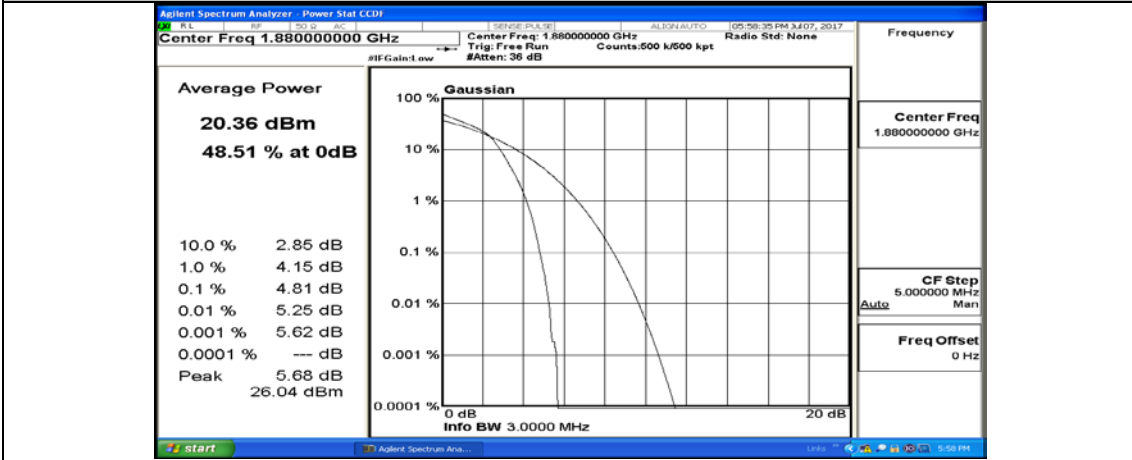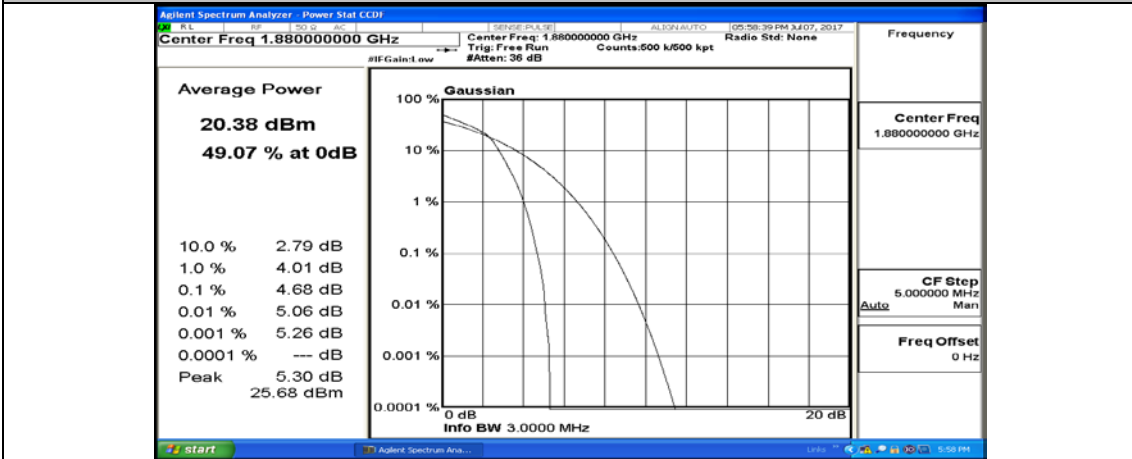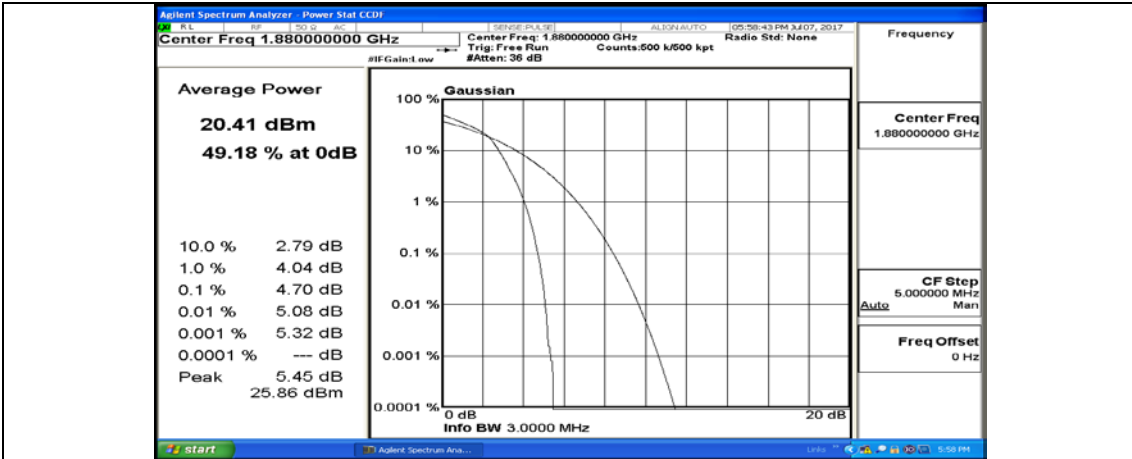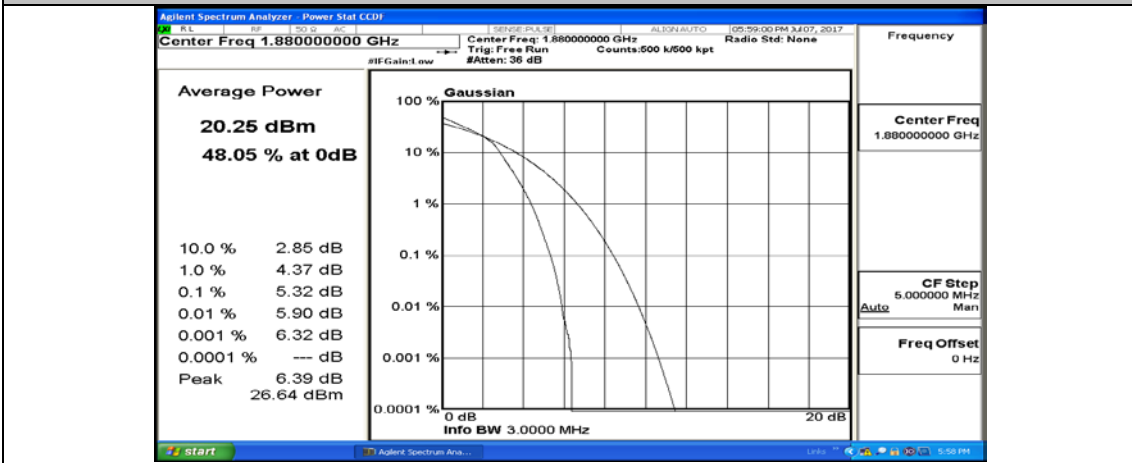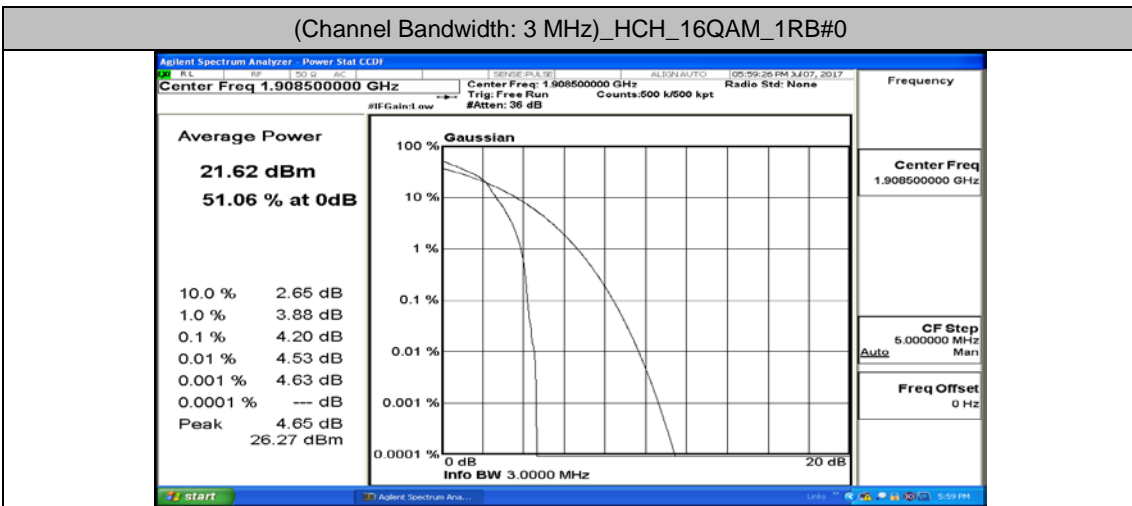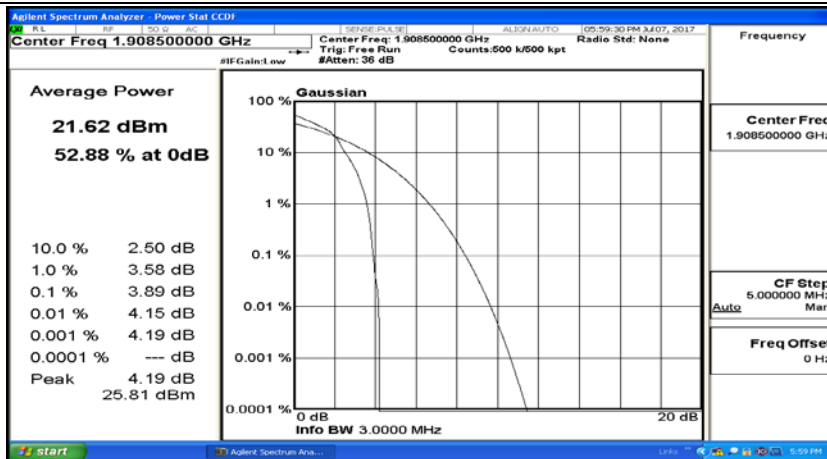(Channel Bandwidth: 3 MHz)_MCH_16QAM_8RB#7

(Channel Bandwidth: 3 MHz)_MCH_16QAM_15RB#0

(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#0

(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#7

Agilent Spectrum Analyzer - Power Stat CCDF

Center Freq 1.908500000 GHz
#IFGain:Low

SENSE:PULSE | ALIGN AUTO | 05:59:30 PM Jul 07, 2017
Center Freq: 1.908500000 GHz | Radio Std: None
Trig: Free Run | Counts:500 k/500 kpt
#Atten: 36 dB

Frequency

Average Power

21.62 dBm

52.88 % at 0dB

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

10.0 %	2.50 dB
1.0 %	3.58 dB
0.1 %	3.89 dB
0.01 %	4.15 dB
0.001 %	4.19 dB
0.0001 %	--- dB
Peak	4.19 dB
	25.81 dBm

0 dB   Info BW 3.0000 MHz   20 dB

Center Freq 1.908500000 GHz

CF Step 5.000000 MHz Auto Man

Freq Offset 0 Hz

(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#14

Agilent Spectrum Analyzer - Power Stat CCDF

Center Freq 1.908500000 GHz
#IFGain:Low

SENSE:PULSE | ALIGN AUTO | 05:59:34 PM Jul 07, 2017
Center Freq: 1.908500000 GHz | Radio Std: None
Trig: Free Run | Counts:500 k/500 kpt
#Atten: 36 dB

Frequency

Average Power

21.59 dBm

54.49 % at 0dB

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

10.0 %	2.35 dB
1.0 %	3.28 dB
0.1 %	3.55 dB
0.01 %	3.81 dB
0.001 %	3.87 dB
0.0001 %	--- dB
Peak	3.89 dB
	25.48 dBm

0 dB   Info BW 3.0000 MHz   20 dB

Center Freq 1.908500000 GHz

CF Step 5.000000 MHz Auto Man

Freq Offset 0 Hz

(Channel Bandwidth: 3 MHz)_HCH_16QAM_8RB#0

Agilent Spectrum Analyzer - Power Stat CCDF

Center Freq 1.908500000 GHz
#IFGain:Low

SENSE:PULSE | ALIGN AUTO | 05:59:59 PM Jul 07, 2017
Center Freq: 1.908500000 GHz | Radio Std: None
Trig: Free Run | Counts:500 k/500 kpt
#Atten: 36 dB

Frequency

Average Power

20.59 dBm

49.01 % at 0dB

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

10.0 %	2.79 dB
1.0 %	4.22 dB
0.1 %	5.04 dB
0.01 %	5.45 dB
0.001 %	5.67 dB
0.0001 %	--- dB
Peak	5.73 dB
	26.32 dBm

0 dB   Info BW 3.0000 MHz   20 dB

Center Freq 1.908500000 GHz

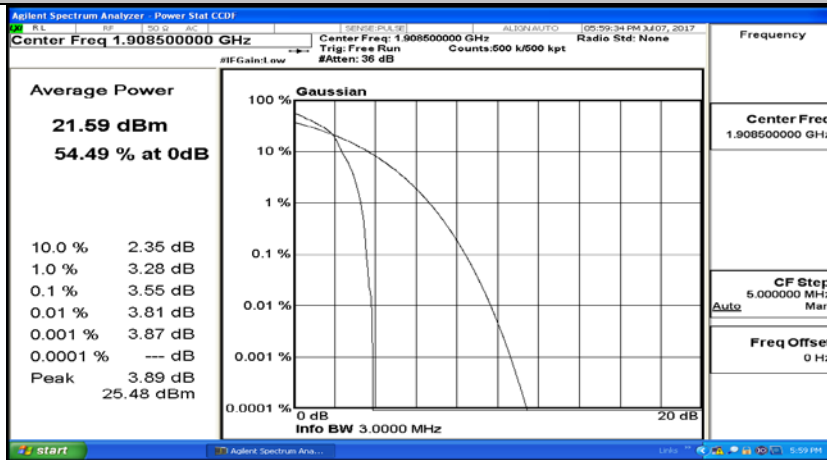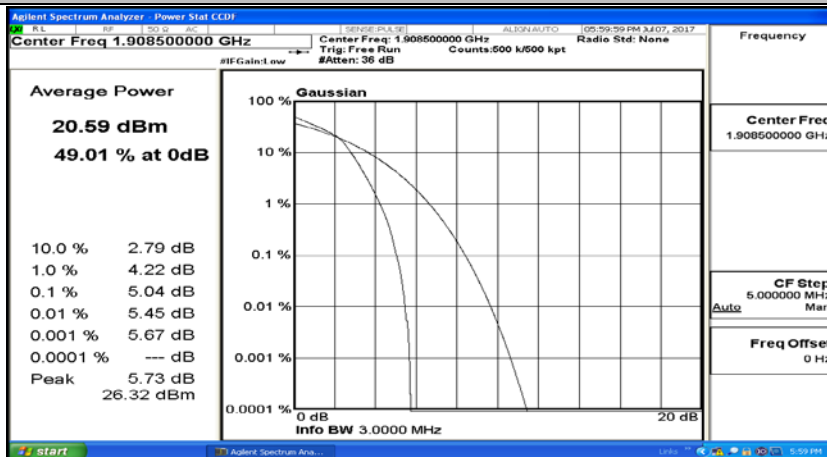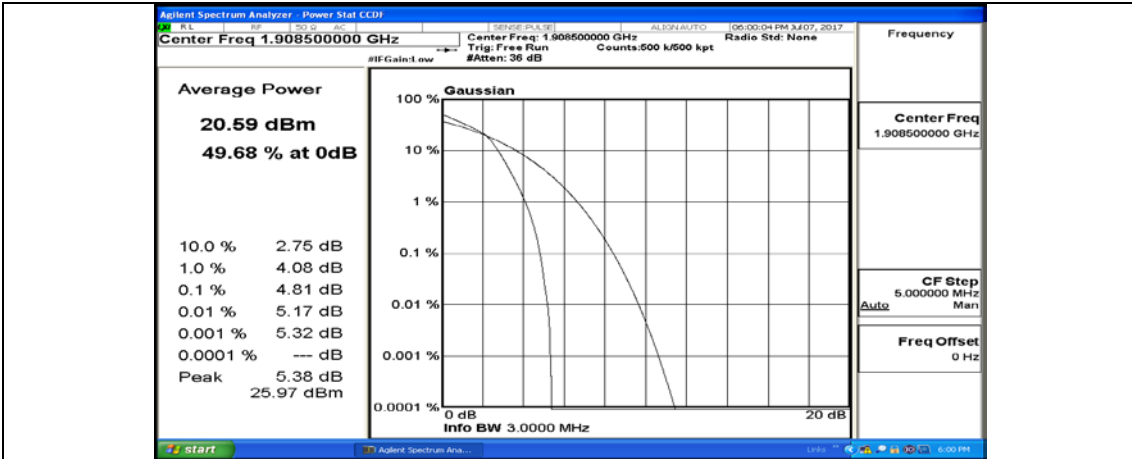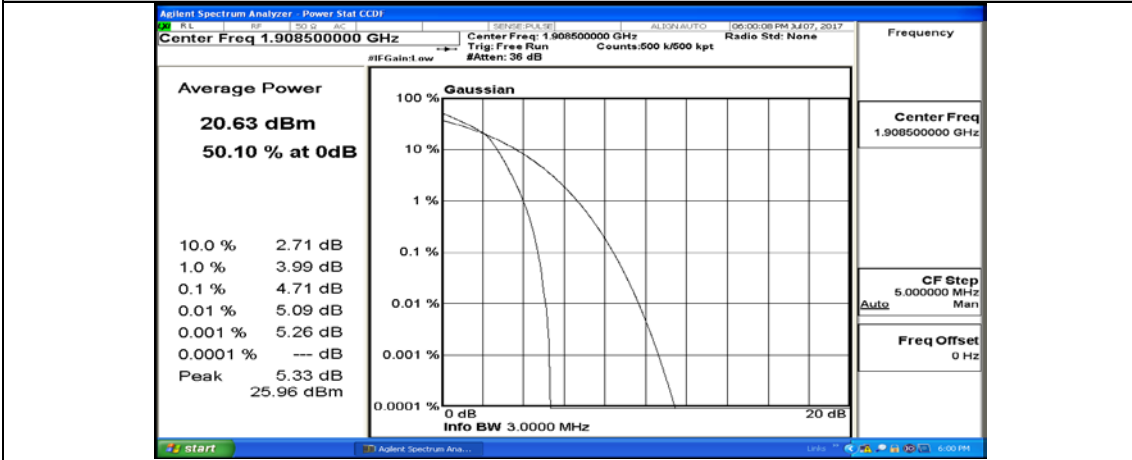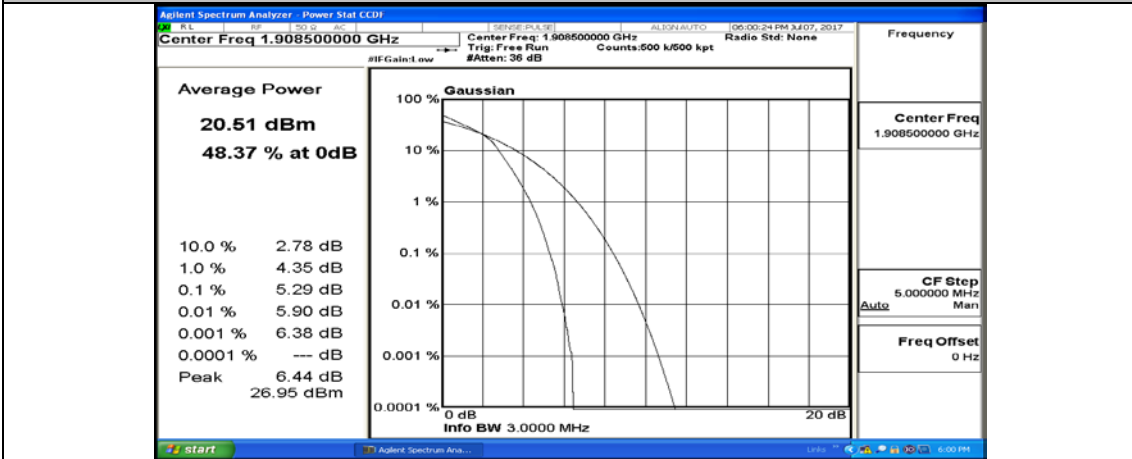CF Step 5.000000 MHz Auto Man

Freq Offset 0 Hz

(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