D.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	4.4	<13	PASS
		1	3	4.43	<13	PASS
		1	5	4.5	<13	PASS
		3	0	4.78	<13	PASS
		3	2	4.81	<13	PASS
		3	3	4.84	<13	PASS
		6	0	5.79	<13	PASS
	MCH	1	0	3.55	<13	PASS
		1	3	3.49	<13	PASS
		1	5	3.51	<13	PASS
		3	0	3.96	<13	PASS
		3	2	3.92	<13	PASS
		3	3	3.93	<13	PASS
		6	0	5.19	<13	PASS
	HCH	1	0	2.78	<13	PASS
		1	3	2.63	<13	PASS
		1	5	2.35	<13	PASS
		3	0	3.07	<13	PASS
		3	2	2.86	<13	PASS
		3	3	2.72	<13	PASS
		6	0	4.15	<13	PASS
16QAM	LCH	1	0	5.26	<13	PASS
		1	3	5.29	<13	PASS
		1	5	5.39	<13	PASS
		3	0	5.68	<13	PASS
		3	2	5.7	<13	PASS
		3	3	5.77	<13	PASS
		6	0	6.7	<13	PASS
	MCH	1	0	4.52	<13	PASS
		1	3	4.49	<13	PASS
		1	5	4.49	<13	PASS
		3	0	4.86	<13	PASS
		3	2	4.85	<13	PASS
		3	3	4.84	<13	PASS
		6	0	6.02	<13	PASS

	HCH	1	0	3.66	<13	PASS
		1	3	3.41	<13	PASS
		1	5	3.16	<13	PASS
		3	0	3.97	<13	PASS
		3	2	3.71	<13	PASS
		3	3	3.61	<13	PASS
		6	0	5	<13	PASS

Channel Bandwidth: 3 MHz

Modulation	Channel	RB Configuration		Peak-to-Average Ratio	Limit	Verdict
		Size	Offset	[dB]	[dB]	
QPSK	LCH	1	0	4.37	<13	PASS
		1	7	4.51	<13	PASS
		1	14	4.56	<13	PASS
		8	0	5.74	<13	PASS
		8	4	5.8	<13	PASS
		8	7	5.78	<13	PASS
		15	0	5.82	<13	PASS
	MCH	1	0	3.8	<13	PASS
		1	7	3.59	<13	PASS
		1	14	3.58	<13	PASS
		8	0	5.04	<13	PASS
		8	4	4.94	<13	PASS
		8	7	4.93	<13	PASS
		15	0	5.27	<13	PASS
	HCH	1	0	3.79	<13	PASS
		1	7	3.19	<13	PASS
		1	14	2.26	<13	PASS
		8	0	5.28	<13	PASS
		8	4	4.57	<13	PASS
		8	7	4.16	<13	PASS
		15	0	5.13	<13	PASS
16QAM	LCH	1	0	5.19	<13	PASS
		1	7	5.28	<13	PASS
		1	14	5.27	<13	PASS
		8	0	6.42	<13	PASS
		8	4	6.5	<13	PASS
		8	7	6.5	<13	PASS
		15	0	6.75	<13	PASS
	MCH	1	0	4.59	<13	PASS
		1	7	4.44	<13	PASS
		1	14	4.46	<13	PASS
		8	0	5.8	<13	PASS
		8	4	5.75	<13	PASS
		8	7	5.72	<13	PASS
		15	0	6.13	<13	PASS
	HCH	1	0	4.76	<13	PASS
		1	7	4.09	<13	PASS
		1	14	3.23	<13	PASS

		8	0	5.99	<13	PASS
		8	4	5.4	<13	PASS
		8	7	4.98	<13	PASS
		15	0	5.95	<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	4.23	<13	PASS
		1	12	4.36	<13	PASS
		1	24	4.29	<13	PASS
		12	0	5.63	<13	PASS
		12	6	5.7	<13	PASS
		12	13	5.8	<13	PASS
		25	0	5.83	<13	PASS
	MCH	1	0	3.95	<13	PASS
		1	12	3.52	<13	PASS
		1	24	3.78	<13	PASS
		12	0	5.11	<13	PASS
		12	6	4.89	<13	PASS
		12	13	4.93	<13	PASS
		25	0	5.32	<13	PASS
	HCH	1	0	4.36	<13	PASS
		1	12	4.51	<13	PASS
		1	24	2.66	<13	PASS
		12	0	5.97	<13	PASS
		12	6	5.9	<13	PASS
		12	13	5.08	<13	PASS
		25	0	5.87	<13	PASS
16QAM	LCH	1	0	5.21	<13	PASS
		1	12	5.31	<13	PASS
		1	24	5.23	<13	PASS
		12	0	6.53	<13	PASS
		12	6	6.55	<13	PASS
		12	13	6.63	<13	PASS
		25	0	6.66	<13	PASS
	MCH	1	0	4.77	<13	PASS
		1	12	4.47	<13	PASS
		1	24	4.54	<13	PASS
		12	0	5.92	<13	PASS
		12	6	5.75	<13	PASS
		12	13	5.76	<13	PASS
		25	0	6.09	<13	PASS
	HCH	1	0	5.13	<13	PASS
		1	12	5.11	<13	PASS
		1	24	3.39	<13	PASS

		12	0	6.92	<13	PASS
		12	6	6.8	<13	PASS
		12	13	6.08	<13	PASS
		25	0	6.62	<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	4.35	<13	PASS
		1	24	4.51	<13	PASS
		1	49	3.63	<13	PASS
		25	0	5.71	<13	PASS
		25	12	5.85	<13	PASS
		25	25	5.44	<13	PASS
		50	0	5.78	<13	PASS
	MCH	1	0	4.3	<13	PASS
		1	24	3.68	<13	PASS
		1	49	4.87	<13	PASS
		25	0	5.54	<13	PASS
		25	12	5.27	<13	PASS
		25	25	5.42	<13	PASS
		50	0	5.5	<13	PASS
	HCH	1	0	3.56	<13	PASS
		1	24	4.54	<13	PASS
		1	49	2.91	<13	PASS
		25	0	5.16	<13	PASS
		25	12	5.77	<13	PASS
		25	25	5.83	<13	PASS
		50	0	5.53	<13	PASS
16QAM	LCH	1	0	5.13	<13	PASS
		1	24	5.48	<13	PASS
		1	49	4.38	<13	PASS
		25	0	6.62	<13	PASS
		25	12	6.66	<13	PASS
		25	25	6.34	<13	PASS
		50	0	6.5	<13	PASS
	MCH	1	0	4.97	<13	PASS
		1	24	4.46	<13	PASS
		1	49	5.75	<13	PASS
		25	0	6.28	<13	PASS
		25	12	6	<13	PASS
		25	25	6.23	<13	PASS
		50	0	6.28	<13	PASS
	HCH	1	0	4.53	<13	PASS
		1	24	5.38	<13	PASS
		1	49	3.81	<13	PASS

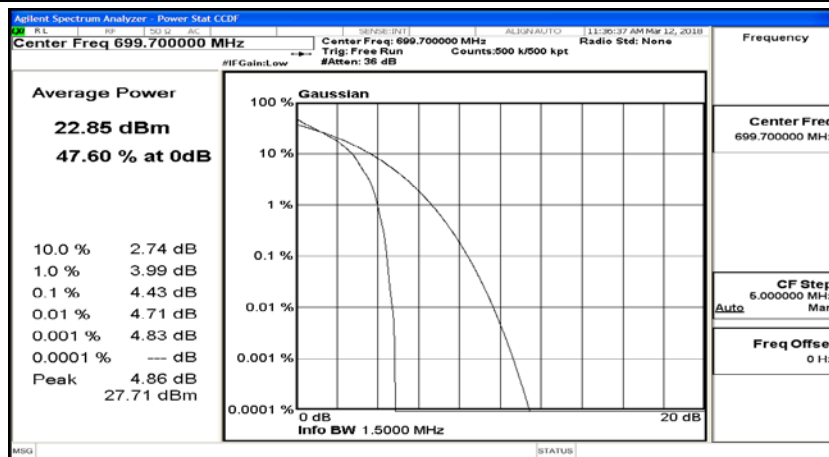|		25	0	6.02	<13	PASS
		25	12	6.49	<13	PASS
		25	25	6.63	<13	PASS
		50	0	6.33	<13	PASS

Test Graphs

Channel Bandwidth: 1.4 MHz

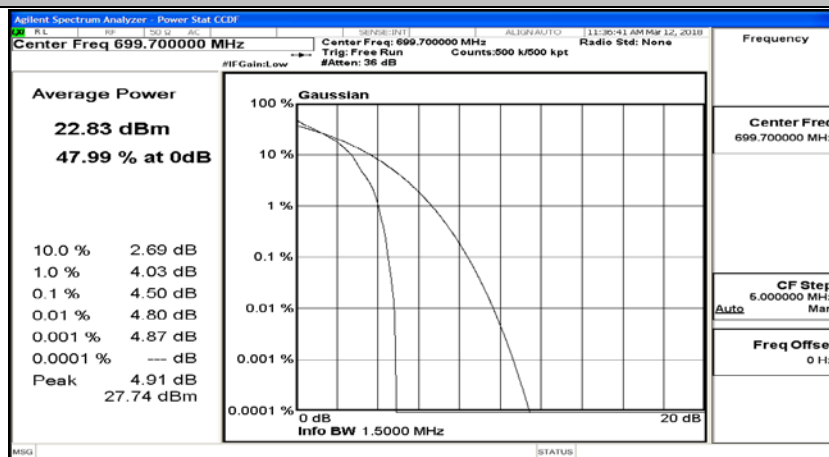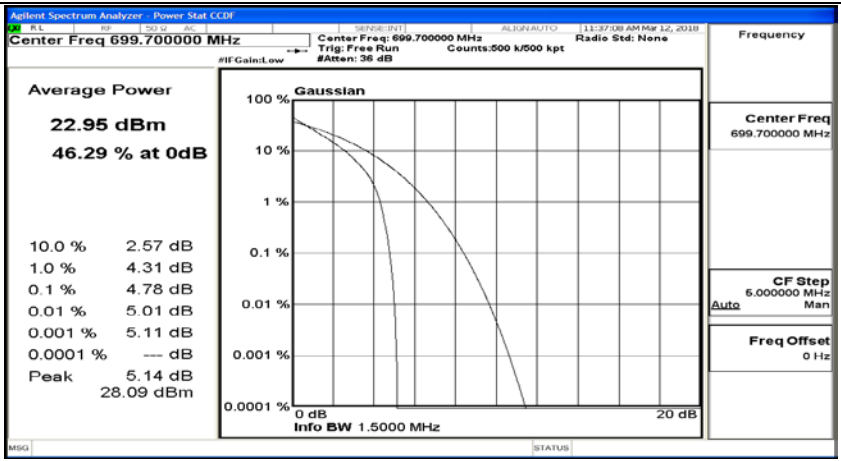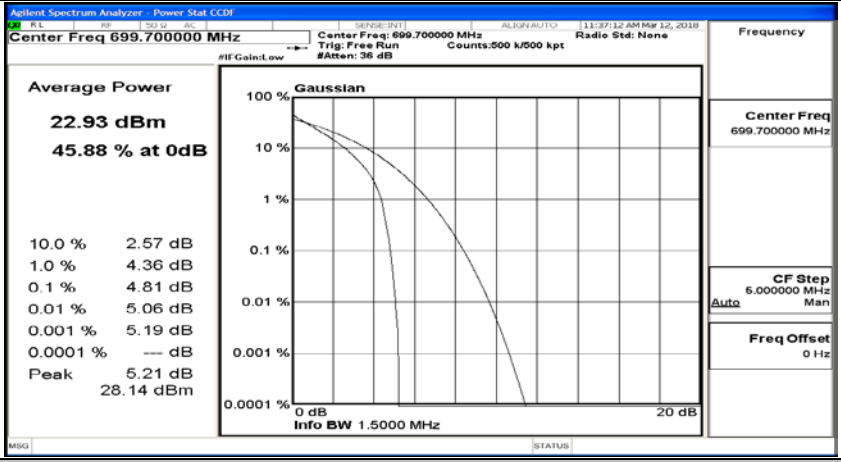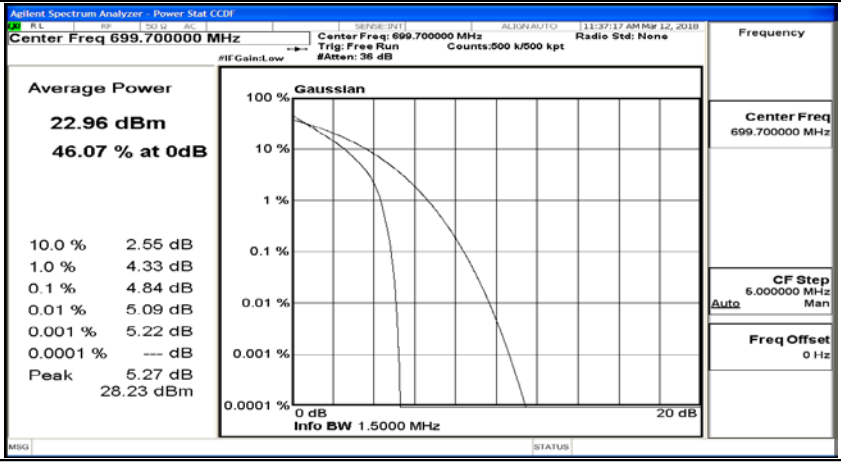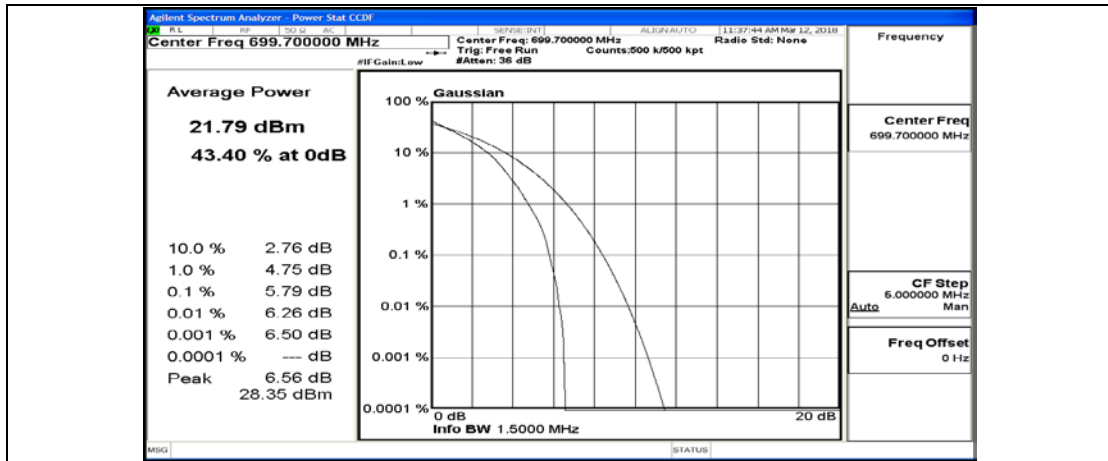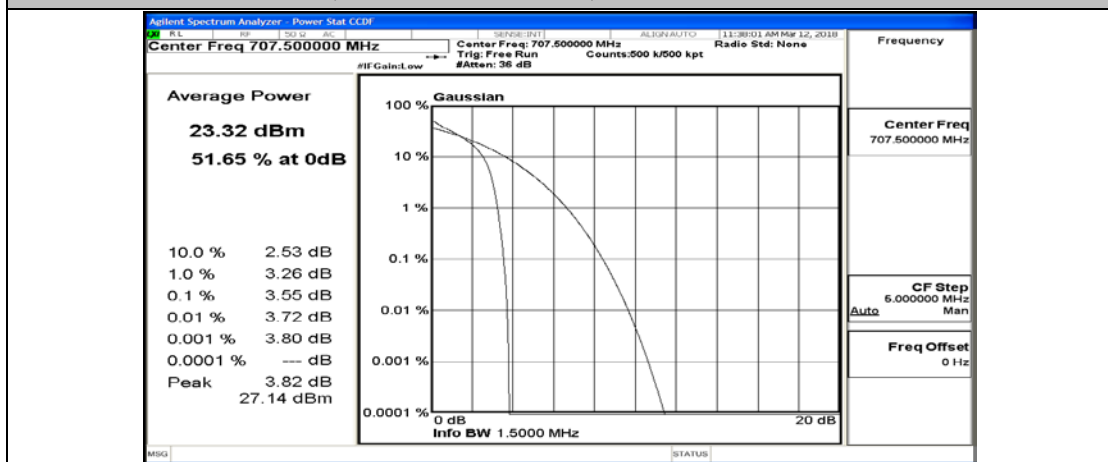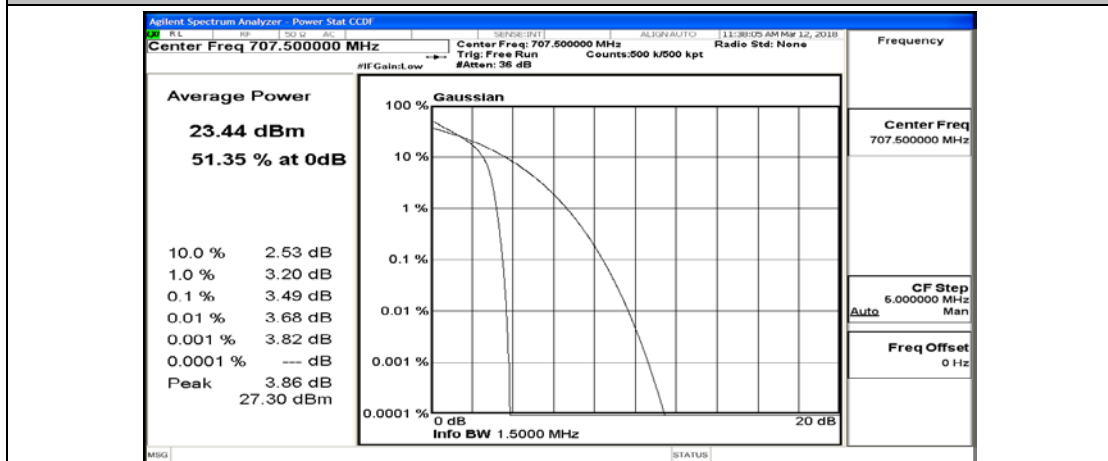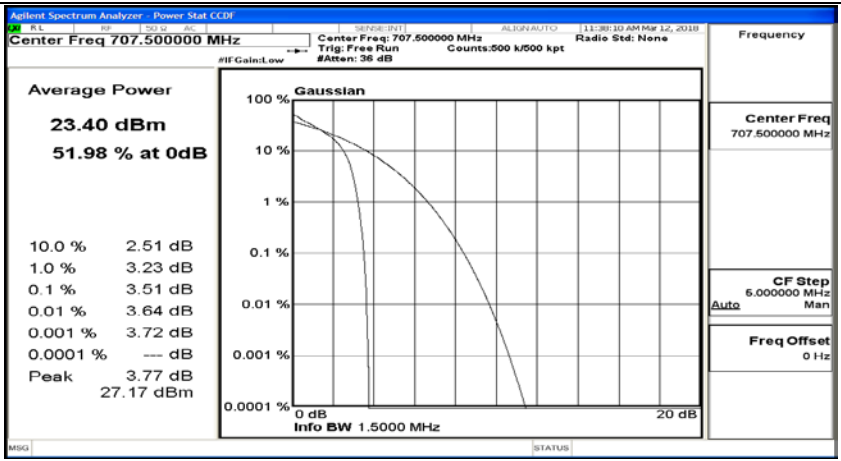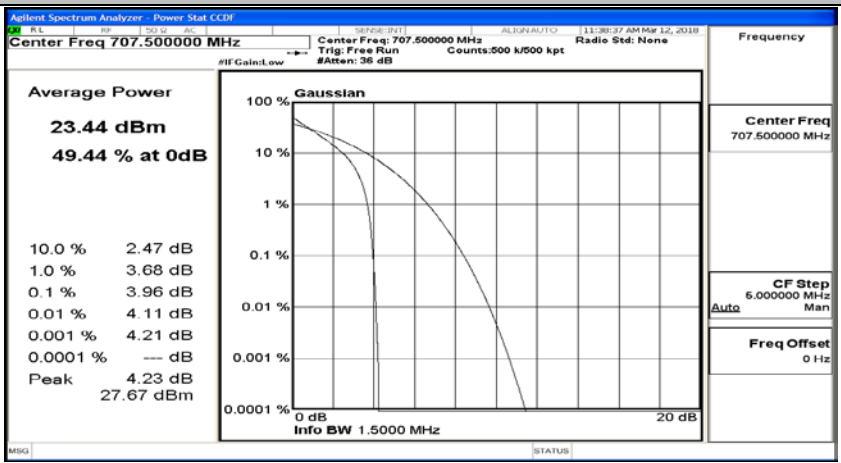| (Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#0 |
|---|
| |
| (Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#3 |
| |
| (Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#5 |
| |
| (Channel Bandwidth: 1.4 MHz)_LCH_QPSK_3RB#0 |

Average Power

22.95 dBm

46.29 % at 0dB

10.0 %	2.57 dB
1.0 %	4.31 dB
0.1 %	4.78 dB
0.01 %	5.01 dB
0.001 %	5.11 dB
0.0001 %	--- dB
Peak	5.14 dB
	28.09 dBm

(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_3RB#2

Average Power

22.93 dBm

45.88 % at 0dB

10.0 %	2.57 dB
1.0 %	4.36 dB
0.1 %	4.81 dB
0.01 %	5.06 dB
0.001 %	5.19 dB
0.0001 %	--- dB
Peak	5.21 dB
	28.14 dBm

(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_3RB#3

Average Power

22.96 dBm

46.07 % at 0dB

10.0 %	2.55 dB
1.0 %	4.33 dB
0.1 %	4.84 dB
0.01 %	5.09 dB
0.001 %	5.22 dB
0.0001 %	--- dB
Peak	5.27 dB
	28.23 dBm

(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_6RB#0

Agilent Spectrum Analyzer - Power Stat CCDF

Center Freq 699.700000 MHz
SENSE:INT   ALIGN AUTO   11:37:44 AM Mar 12, 2018
Center Freq: 699.700000 MHz   Radio Std: None
Trig: Free Run   Counts:500 k/500 kpt
#IF Gain:Low   #Atten: 36 dB

Frequency

Average Power

21.79 dBm

43.40 % at 0dB

Gaussian

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

10.0 %	2.76 dB
1.0 %	4.75 dB
0.1 %	5.79 dB
0.01 %	6.26 dB
0.001 %	6.50 dB
0.0001 %	--- dB
Peak	6.56 dB
	28.35 dBm

0 dB   Info BW 1.5000 MHz   20 dB

MSG   STATUS

Center Freq 699.700000 MHz
CF Step 5.000000 MHz   Auto   Man
Freq Offset 0 Hz

(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#0

Agilent Spectrum Analyzer - Power Stat CCDF

Center Freq 707.500000 MHz
SENSE:INT   ALIGN AUTO   11:38:01 AM Mar 12, 2018
Center Freq: 707.500000 MHz   Radio Std: None
Trig: Free Run   Counts:500 k/500 kpt
#IF Gain:Low   #Atten: 36 dB

Frequency

Average Power

23.32 dBm

51.65 % at 0dB

Gaussian

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

10.0 %	2.53 dB
1.0 %	3.26 dB
0.1 %	3.55 dB
0.01 %	3.72 dB
0.001 %	3.80 dB
0.0001 %	--- dB
Peak	3.82 dB
	27.14 dBm

0 dB   Info BW 1.5000 MHz   20 dB

MSG   STATUS

Center Freq 707.500000 MHz
CF Step 5.000000 MHz   Auto   Man
Freq Offset 0 Hz

(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#3

Agilent Spectrum Analyzer - Power Stat CCDF

Center Freq 707.500000 MHz
SENSE:INT   ALIGN AUTO   11:38:05 AM Mar 12, 2018
Center Freq: 707.500000 MHz   Radio Std: None
Trig: Free Run   Counts:500 k/500 kpt
#IF Gain:Low   #Atten: 36 dB

Frequency

Average Power

23.44 dBm

51.35 % at 0dB

Gaussian

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

10.0 %	2.53 dB
1.0 %	3.20 dB
0.1 %	3.49 dB
0.01 %	3.68 dB
0.001 %	3.82 dB
0.0001 %	--- dB
Peak	3.86 dB
	27.30 dBm

0 dB   Info BW 1.5000 MHz   20 dB

MSG   STATUS

Center Freq 707.500000 MHz
CF Step 5.000000 MHz   Auto   Man
Freq Offset 0 Hz

(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#5

Center Freq 707.500000 MHz
SENSE:INT ALIGN AUTO 11:38:10 AM Mar 12, 2018
Center Freq: 707.500000 MHz Radio Std: None
Trig: Free Run Counts:500 k/500 kpt
#IFGain:Low #Atten: 36 dB

Frequency

Average Power

23.40 dBm

51.98 % at 0dB

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

10.0 %	2.51 dB
1.0 %	3.23 dB
0.1 %	3.51 dB
0.01 %	3.64 dB
0.001 %	3.72 dB
0.0001 %	--- dB
Peak	3.77 dB
	27.17 dBm

0 dB 20 dB
Info BW 1.5000 MHz

Center Freq
707.500000 MHz

CF Step
6.000000 MHz
Auto Man

Freq Offset
0 Hz

MSG STATUS

(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_3RB#0

Center Freq 707.500000 MHz
SENSE:INT ALIGN AUTO 11:38:37 AM Mar 12, 2018
Center Freq: 707.500000 MHz Radio Std: None
Trig: Free Run Counts:500 k/500 kpt
#IFGain:Low #Atten: 36 dB

Frequency

Average Power

23.44 dBm

49.44 % at 0dB

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

10.0 %	2.47 dB
1.0 %	3.68 dB
0.1 %	3.96 dB
0.01 %	4.11 dB
0.001 %	4.21 dB
0.0001 %	--- dB
Peak	4.23 dB
	27.67 dBm

0 dB 20 dB
Info BW 1.5000 MHz

Center Freq
707.500000 MHz

CF Step
6.000000 MHz
Auto Man

Freq Offset
0 Hz

MSG STATUS

(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_3RB#2

Center Freq 707.500000 MHz
SENSE:INT ALIGN AUTO 11:38:42 AM Mar 12, 2018
Center Freq: 707.500000 MHz Radio Std: None
Trig: Free Run Counts:500 k/500 kpt
#IFGain:Low #Atten: 36 dB

Frequency

Average Power

23.48 dBm

49.26 % at 0dB

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

10.0 %	2.46 dB
1.0 %	3.64 dB
0.1 %	3.92 dB
0.01 %	4.07 dB
0.001 %	4.19 dB
0.0001 %	--- dB
Peak	4.22 dB
	27.70 dBm

0 dB 20 dB
Info BW 1.5000 MHz

Center Freq
707.500000 MHz

CF Step
6.000000 MHz
Auto Man

Freq Offset
0 Hz

MSG STATUS

(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_3RB#3

Agilent Spectrum Analyzer - Power Stat CCDF
Center Freq 707.500000 MHz
Center Freq: 707.500000 MHz
Trig: Free Run   Counts:500 k/500 kpt
#Atten: 36 dB
Radio Std: None
SENSE:INT   ALIGN AUTO   11:38:46 AM Mar 12, 2018
#IFGain:Low

Average Power
23.51 dBm
49.48 % at 0dB

Gaussian

10.0 %   2.44 dB
1.0 %   3.64 dB
0.1 %   3.93 dB
0.01 %   4.07 dB
0.001 %   4.20 dB
0.0001 %   --- dB
Peak   4.22 dB
            27.73 dBm

Info BW 1.5000 MHz

Frequency
Center Freq
707.500000 MHz
CF Step
5.000000 MHz
Auto   Man
Freq Offset
0 Hz

(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_6RB#0

Agilent Spectrum Analyzer - Power Stat CCDF
Center Freq 707.500000 MHz
Center Freq: 707.500000 MHz
Trig: Free Run   Counts:500 k/500 kpt
#Atten: 36 dB
Radio Std: None
SENSE:INT   ALIGN AUTO   11:39:13 AM Mar 12, 2018
#IFGain:Low

Average Power
22.34 dBm
46.05 % at 0dB

Gaussian

10.0 %   2.69 dB
1.0 %   4.42 dB
0.1 %   5.19 dB
0.01 %   5.52 dB
0.001 %   5.67 dB
0.0001 %   --- dB
Peak   5.72 dB
            28.06 dBm

Info BW 1.5000 MHz

Frequency
Center Freq
707.500000 MHz
CF Step
5.000000 MHz
Auto   Man
Freq Offset
0 Hz

(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#0

Agilent Spectrum Analyzer - Power Stat CCDF
Center Freq 715.300000 MHz
Center Freq: 715.300000 MHz
Trig: Free Run   Counts:500 k/500 kpt
#Atten: 36 dB
Radio Std: None
SENSE:INT   ALIGN AUTO   11:39:32 AM Mar 12, 2018
#IFGain:Low

Average Power
23.54 dBm
58.14 % at 0dB

Gaussian

10.0 %   1.94 dB
1.0 %   2.45 dB
0.1 %   2.78 dB
0.01 %   2.97 dB
0.001 %   3.03 dB
0.0001 %   --- dB
Peak   3.04 dB
            26.58 dBm

Info BW 1.5000 MHz

Frequency
Center Freq
715.300000 MHz
CF Step
5.000000 MHz
Auto   Man
Freq Offset
0 Hz

(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#3
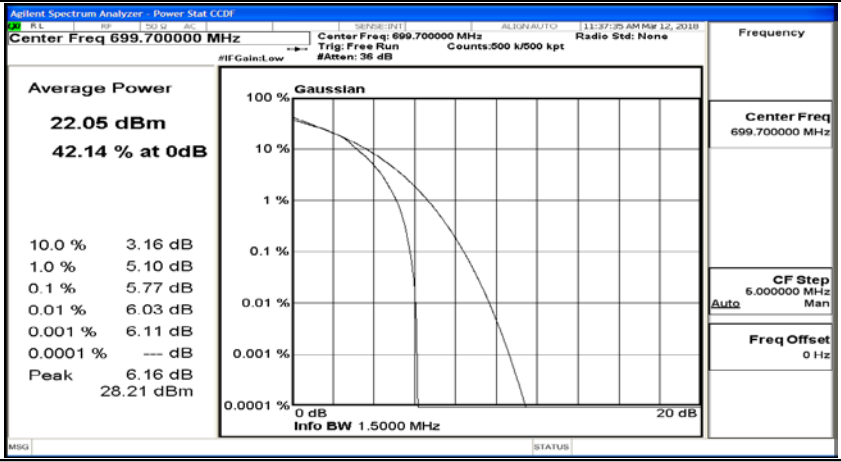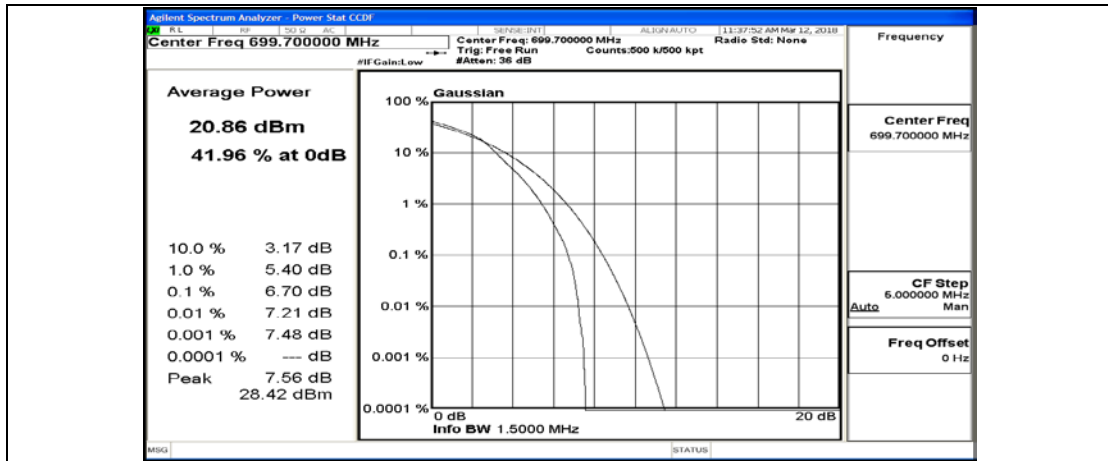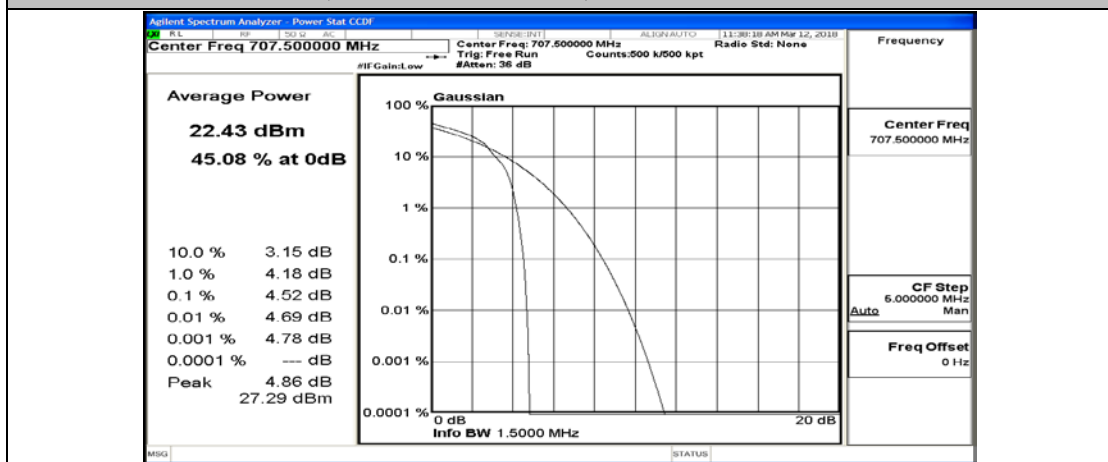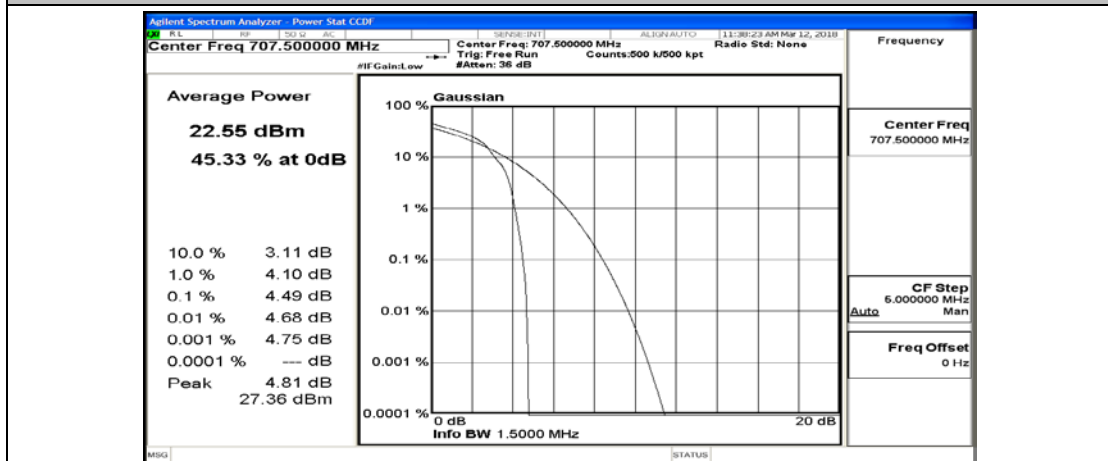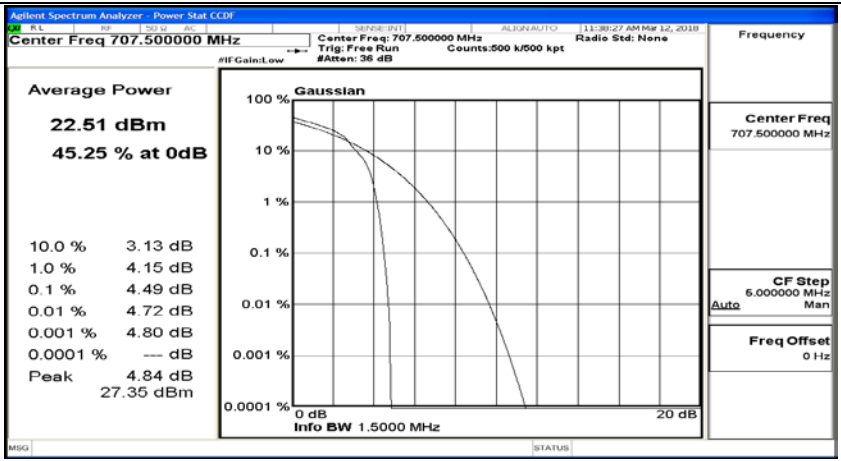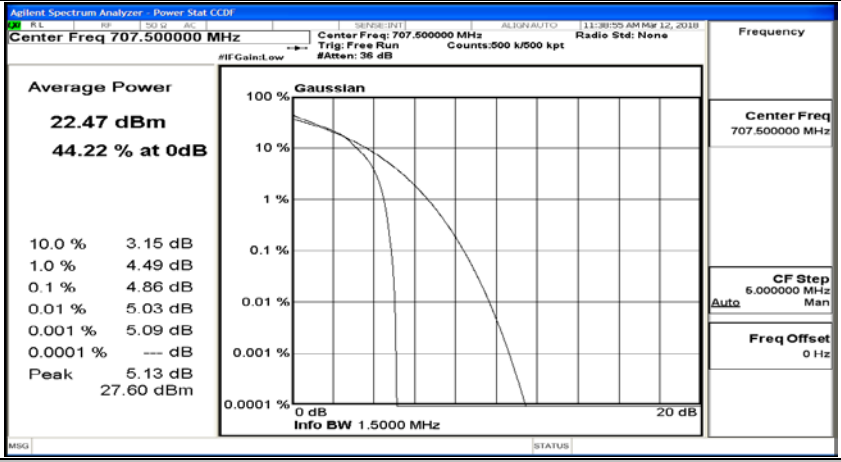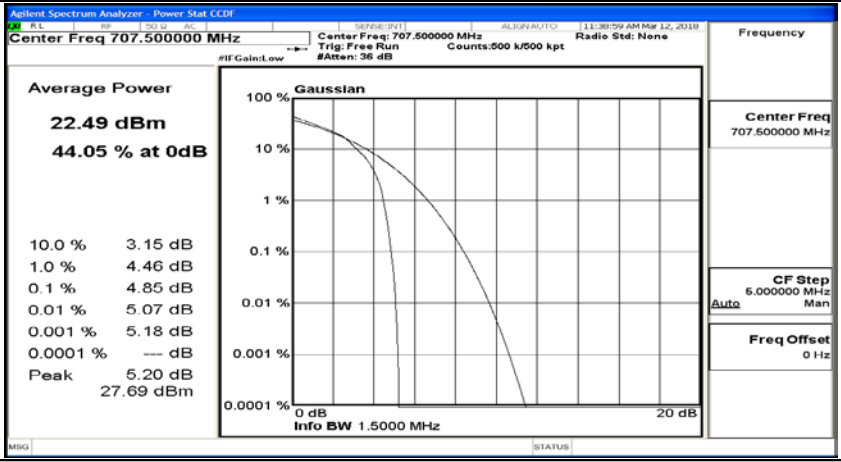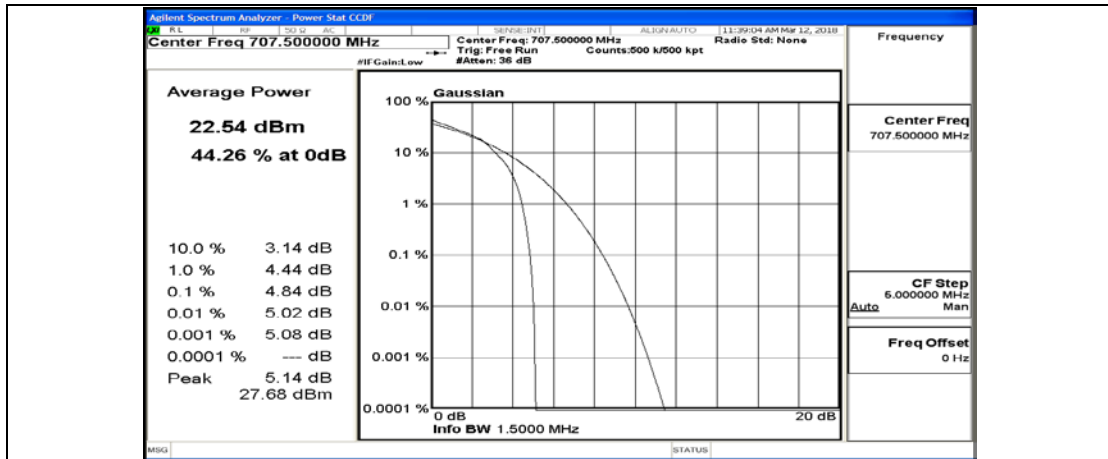
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#5
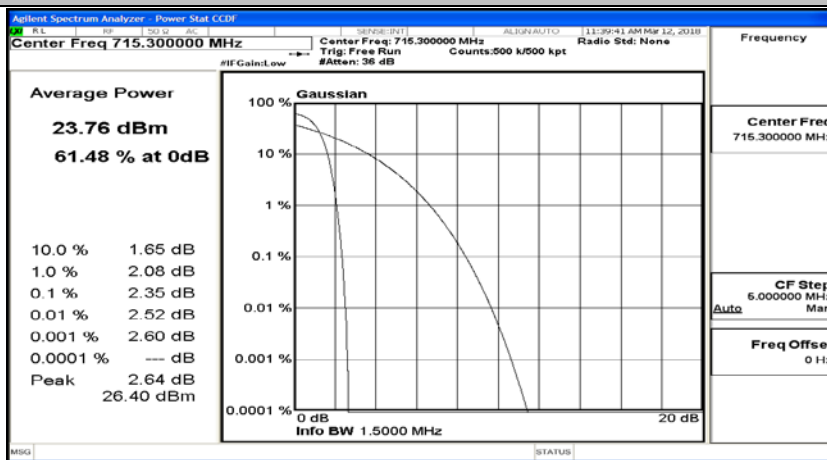
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_3RB#0
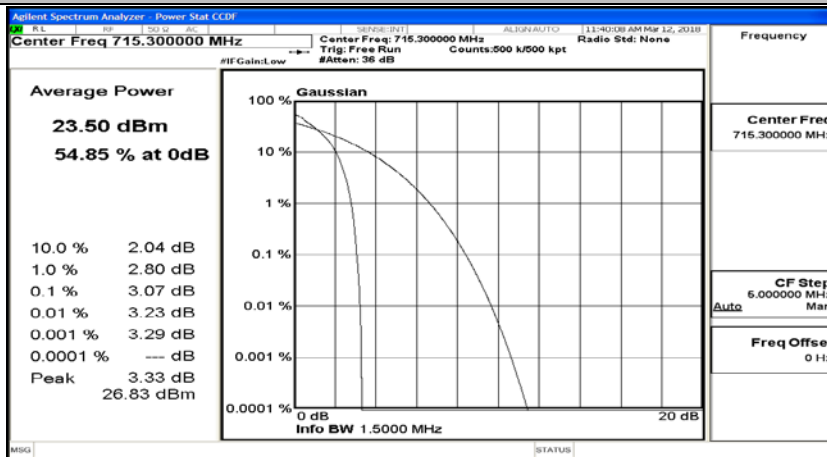
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_3RB#2
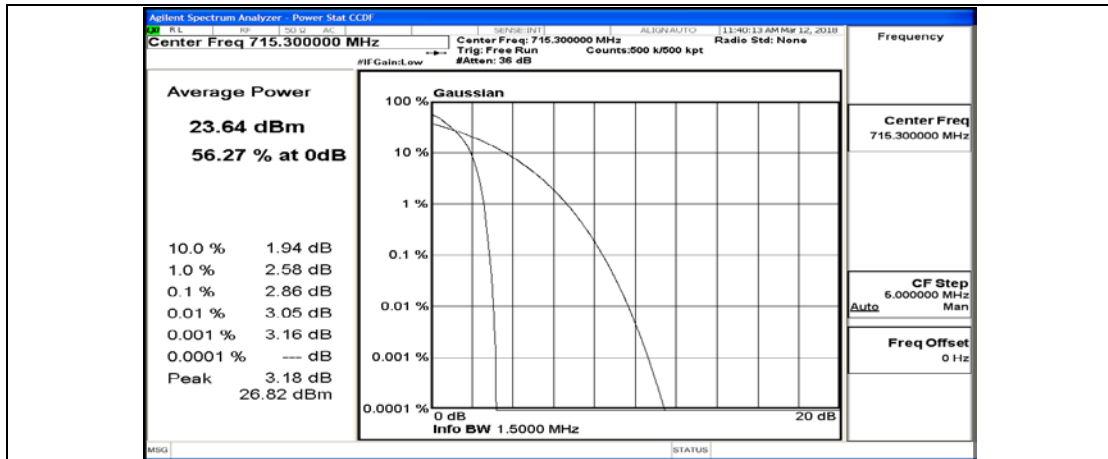
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_3RB#3
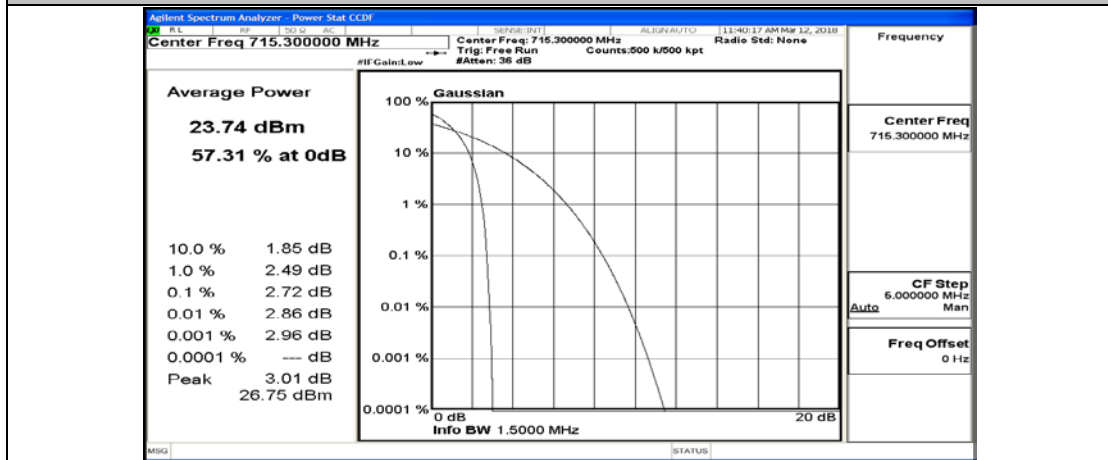
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_6RB#0

(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#0

Agilent Spectrum Analyzer - Power Stat CCDF

Center Freq 699.700000 MHz

Center Freq: 699.700000 MHz   ALIGN AUTO   11:36:50 AM Mar 12, 2018
Trig: Free Run   Counts:500 k/500 kpt   Radio Std: None
#IF Gain:Low   #Atten: 36 dB

Average Power
22.00 dBm
42.37 % at 0dB

10.0 %	3.11 dB
1.0 %	4.88 dB
0.1 %	5.26 dB
0.01 %	5.60 dB
0.001 %	5.63 dB
0.0001 %	--- dB
Peak	5.64 dB
	27.64 dBm

Info BW 1.5000 MHz

(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#3

Agilent Spectrum Analyzer - Power Stat CCDF

Center Freq 699.700000 MHz

Center Freq: 699.700000 MHz   ALIGN AUTO   11:36:54 AM Mar 12, 2018
Trig: Free Run   Counts:500 k/500 kpt   Radio Std: None
#IF Gain:Low   #Atten: 36 dB

Average Power
22.06 dBm
42.67 % at 0dB

10.0 %	3.12 dB
1.0 %	4.88 dB
0.1 %	5.29 dB
0.01 %	5.62 dB
0.001 %	5.69 dB
0.0001 %	--- dB
Peak	5.73 dB
	27.79 dBm

Info BW 1.5000 MHz

(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#5

Agilent Spectrum Analyzer - Power Stat CCDF

Center Freq 699.700000 MHz

Center Freq: 699.700000 MHz   ALIGN AUTO   11:36:59 AM Mar 12, 2018
Trig: Free Run   Counts:500 k/500 kpt   Radio Std: None
#IF Gain:Low   #Atten: 36 dB

Average Power
22.05 dBm
42.36 % at 0dB

10.0 %	3.08 dB
1.0 %	4.93 dB
0.1 %	5.39 dB
0.01 %	5.73 dB
0.001 %	5.83 dB
0.0001 %	--- dB
Peak	5.85 dB
	27.90 dBm

Info BW 1.5000 MHz

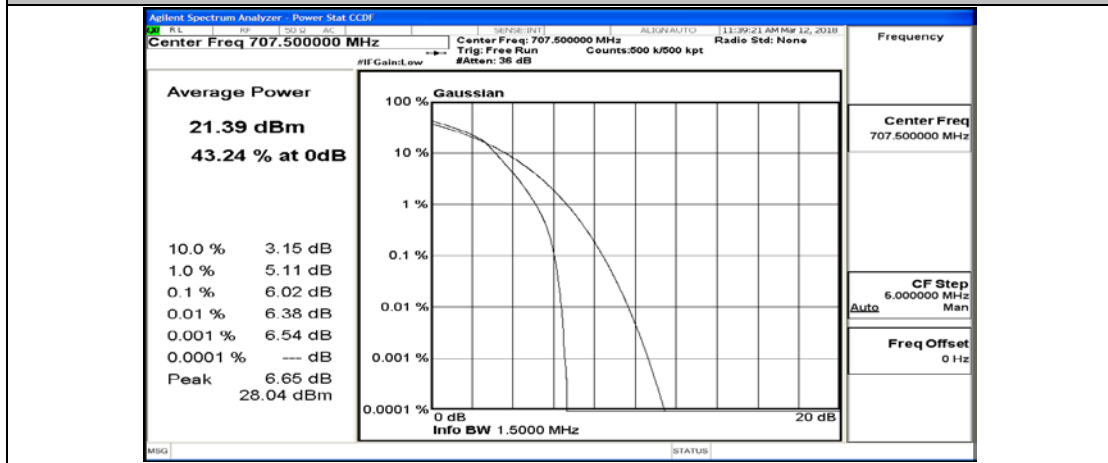(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_3RB#0

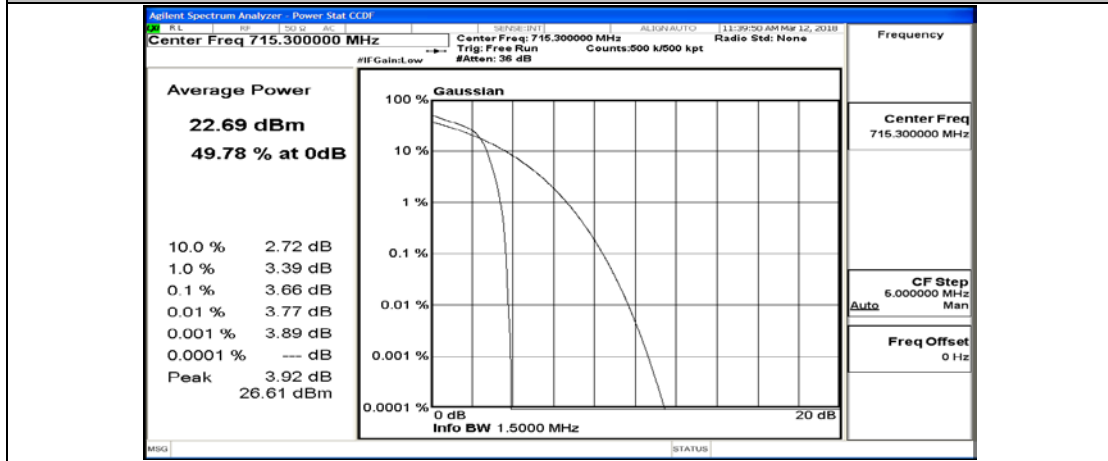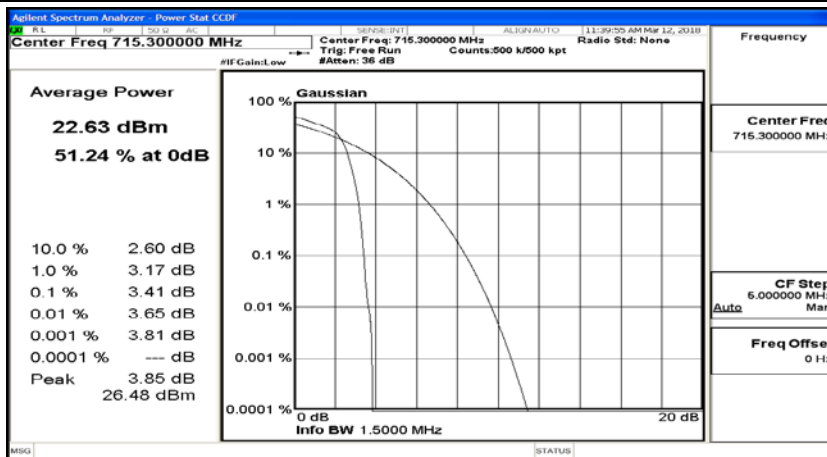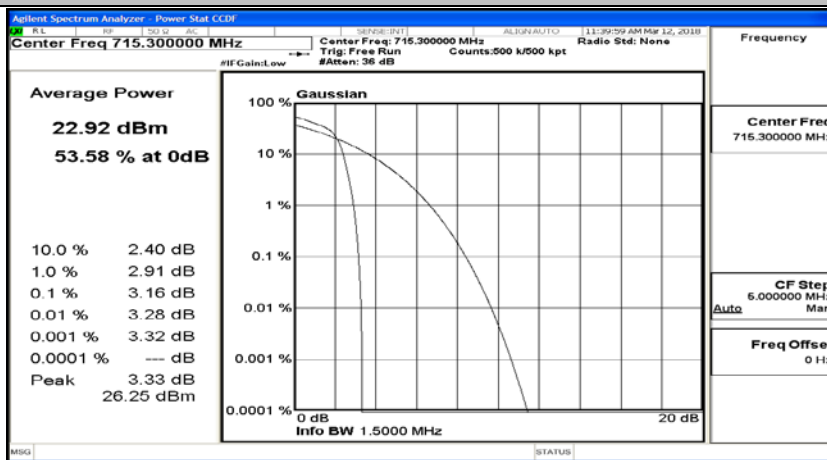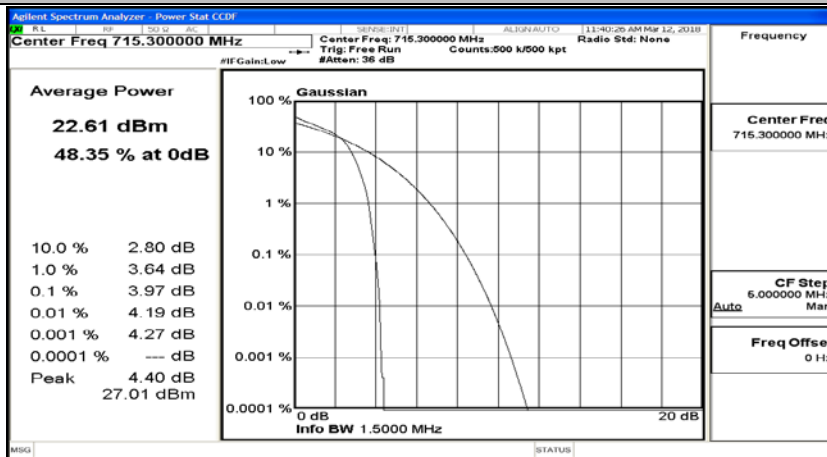(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_3RB#2
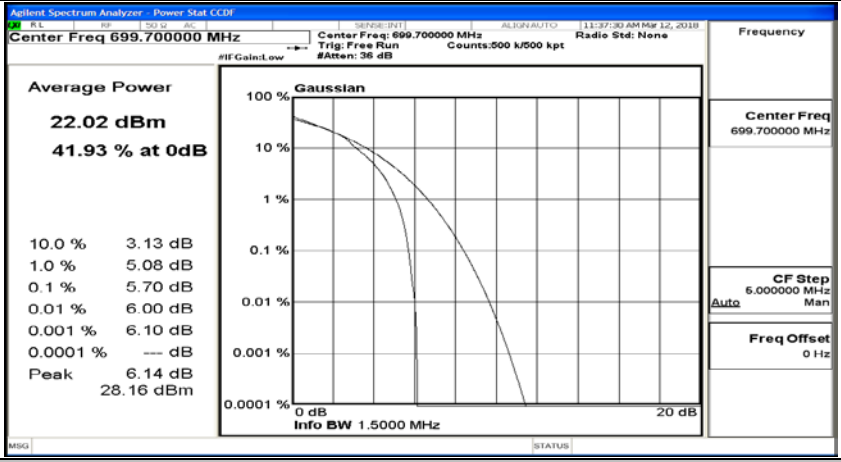
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_3RB#3

(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

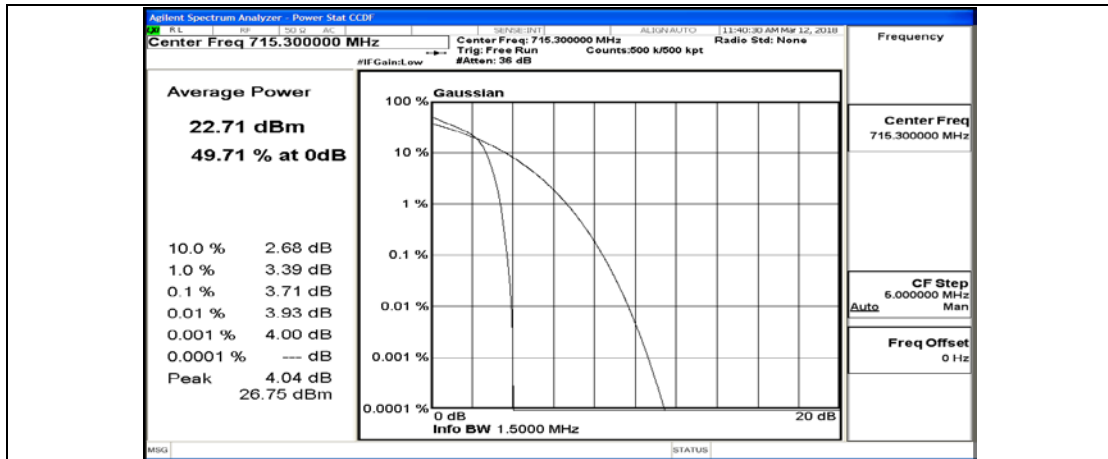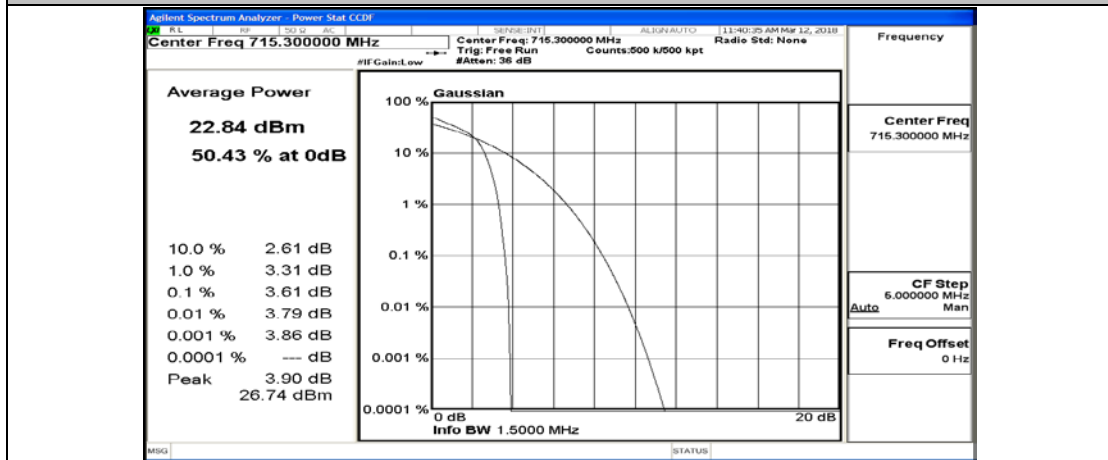| (Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#5 |
|---|

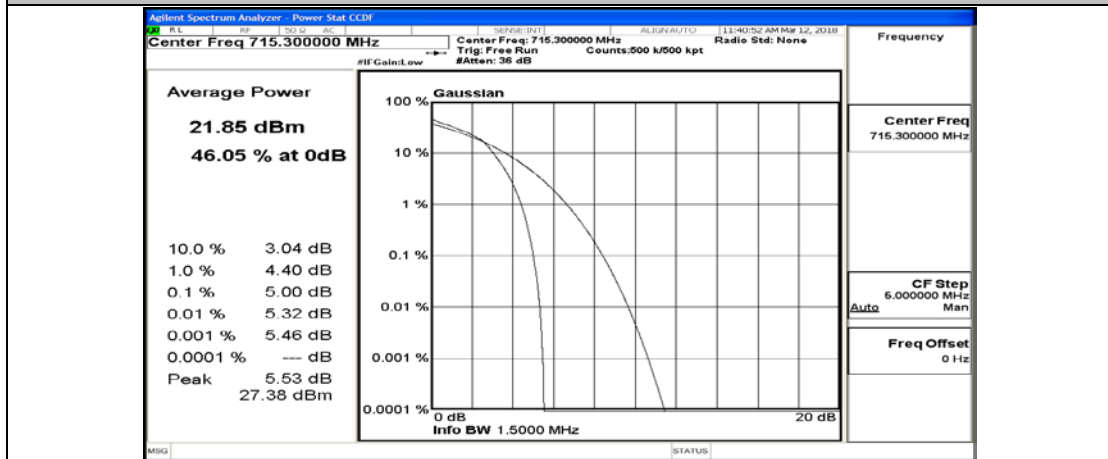(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_3RB#0

(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
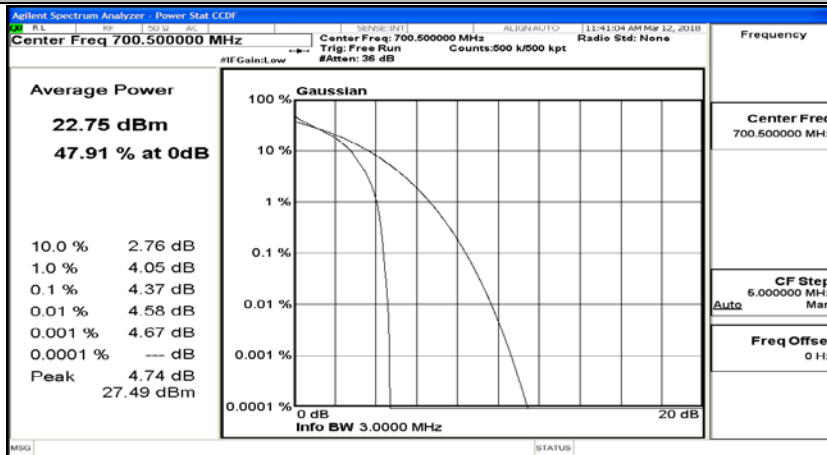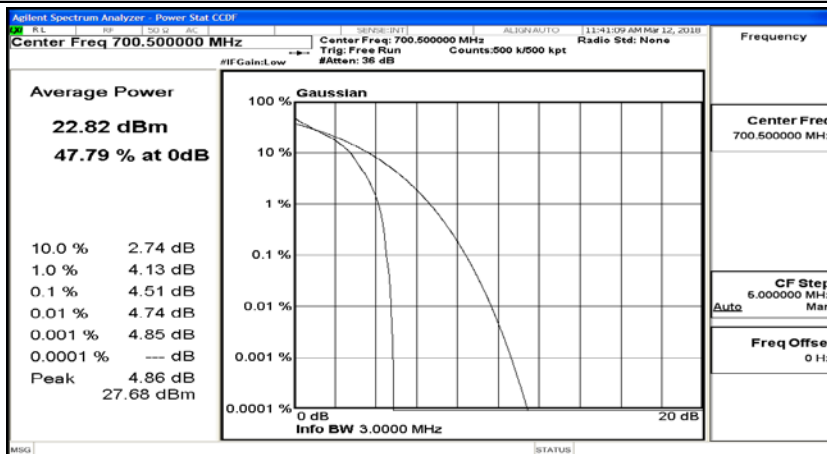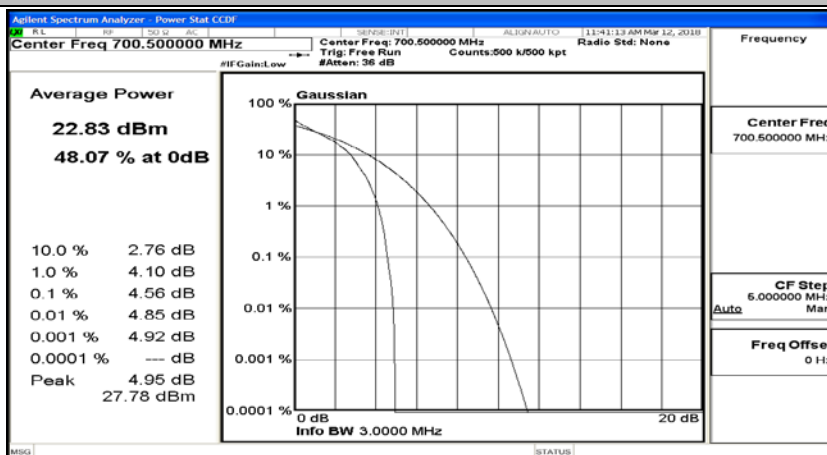

(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#3

Agilent Spectrum Analyzer - Power Stat CCDF
Center Freq 715.300000 MHz
Center Freq: 715.300000 MHz   Radio Std: None
Trig: Free Run   Counts:500 k/500 kpt
#Atten: 36 dB
#IF Gain:Low

Average Power
22.63 dBm
51.24 % at 0dB

10.0 %   2.60 dB
1.0 %   3.17 dB
0.1 %   3.41 dB
0.01 %   3.65 dB
0.001 %   3.81 dB
0.0001 %   --- dB
Peak   3.85 dB
            26.48 dBm

Frequency
Center Freq 715.300000 MHz
CF Step 6.000000 MHz   Auto   Man
Freq Offset 0 Hz

Info BW 1.5000 MHz

(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#5

Agilent Spectrum Analyzer - Power Stat CCDF
Center Freq 715.300000 MHz
Center Freq: 715.300000 MHz   Radio Std: None
Trig: Free Run   Counts:500 k/500 kpt
#Atten: 36 dB
#IF Gain:Low

Average Power
22.92 dBm
53.58 % at 0dB

10.0 %   2.40 dB
1.0 %   2.91 dB
0.1 %   3.16 dB
0.01 %   3.28 dB
0.001 %   3.32 dB
0.0001 %   --- dB
Peak   3.33 dB
            26.25 dBm

Frequency
Center Freq 715.300000 MHz
CF Step 6.000000 MHz   Auto   Man
Freq Offset 0 Hz

Info BW 1.5000 MHz

(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_3RB#0

Agilent Spectrum Analyzer - Power Stat CCDF
Center Freq 715.300000 MHz
Center Freq: 715.300000 MHz   Radio Std: None
Trig: Free Run   Counts:500 k/500 kpt
#Atten: 36 dB
#IF Gain:Low

Average Power
22.61 dBm
48.35 % at 0dB

10.0 %   2.80 dB
1.0 %   3.64 dB
0.1 %   3.97 dB
0.01 %   4.19 dB
0.001 %   4.27 dB
0.0001 %   --- dB
Peak   4.40 dB
            27.01 dBm

Frequency
Center Freq 715.300000 MHz
CF Step 6.000000 MHz   Auto   Man
Freq Offset 0 Hz

Info BW 1.5000 MHz

(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_3RB#2

Agilent Spectrum Analyzer - Power Stat CCDF		
LXI R L RF 50 Ω AC	SENSE:INT ALIGN AUTO 11:40:30 AM Mar 12, 2018	Frequency
Center Freq 715.300000 MHz	Center Freq: 715.300000 MHz Radio Std: None	
#IF Gain:Low	Trig: Free Run Counts:500 k/500 kpt	
	#Atten: 36 dB	

Average Power

22.71 dBm

49.71 % at 0dB

10.0 %	2.68 dB
1.0 %	3.39 dB
0.1 %	3.71 dB
0.01 %	3.93 dB
0.001 %	4.00 dB
0.0001 %	--- dB
Peak	4.04 dB
	26.75 dBm

Gaussian
Info BW 1.5000 MHz

Center Freq 715.300000 MHz

CF Step 6.000000 MHz
Auto   Man

Freq Offset 0 Hz

(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_3RB#3

Agilent Spectrum Analyzer - Power Stat CCDF		
LXI R L RF 50 Ω AC	SENSE:INT ALIGN AUTO 11:40:35 AM Mar 12, 2018	Frequency
Center Freq 715.300000 MHz	Center Freq: 715.300000 MHz Radio Std: None	
#IF Gain:Low	Trig: Free Run Counts:500 k/500 kpt	
	#Atten: 36 dB	

Average Power

22.84 dBm

50.43 % at 0dB

10.0 %	2.61 dB
1.0 %	3.31 dB
0.1 %	3.61 dB
0.01 %	3.79 dB
0.001 %	3.86 dB
0.0001 %	--- dB
Peak	3.90 dB
	26.74 dBm

Gaussian
Info BW 1.5000 MHz

Center Freq 715.300000 MHz

CF Step 6.000000 MHz
Auto   Man

Freq Offset 0 Hz

(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_6RB#0

Agilent Spectrum Analyzer - Power Stat CCDF		
LXI R L RF 50 Ω AC	SENSE:INT ALIGN AUTO 11:40:52 AM Mar 12, 2018	Frequency
Center Freq 715.300000 MHz	Center Freq: 715.300000 MHz Radio Std: None	
#IF Gain:Low	Trig: Free Run Counts:500 k/500 kpt	
	#Atten: 36 dB	

Average Power

21.85 dBm

46.05 % at 0dB

10.0 %	3.04 dB
1.0 %	4.40 dB
0.1 %	5.00 dB
0.01 %	5.32 dB
0.001 %	5.46 dB
0.0001 %	--- dB
Peak	5.53 dB
	27.38 dBm

Gaussian
Info BW 1.5000 MHz

Center Freq 715.300000 MHz

CF Step 6.000000 MHz
Auto   Man

Freq Offset 0 Hz

Channel Bandwidth: 3 MHz

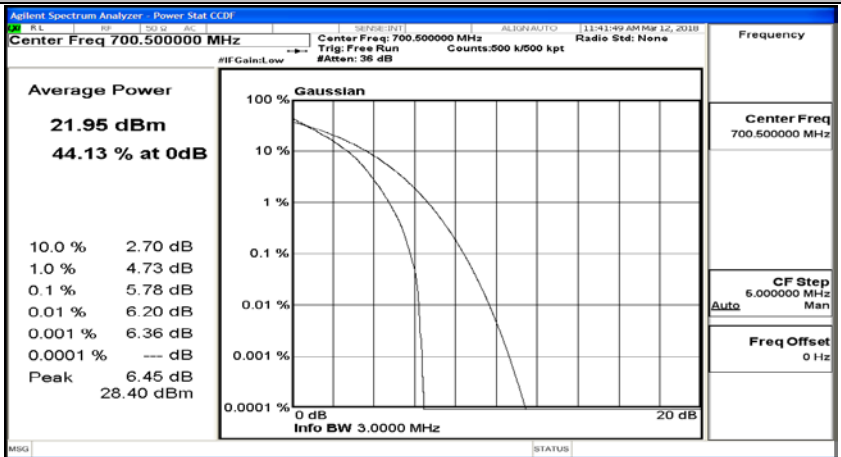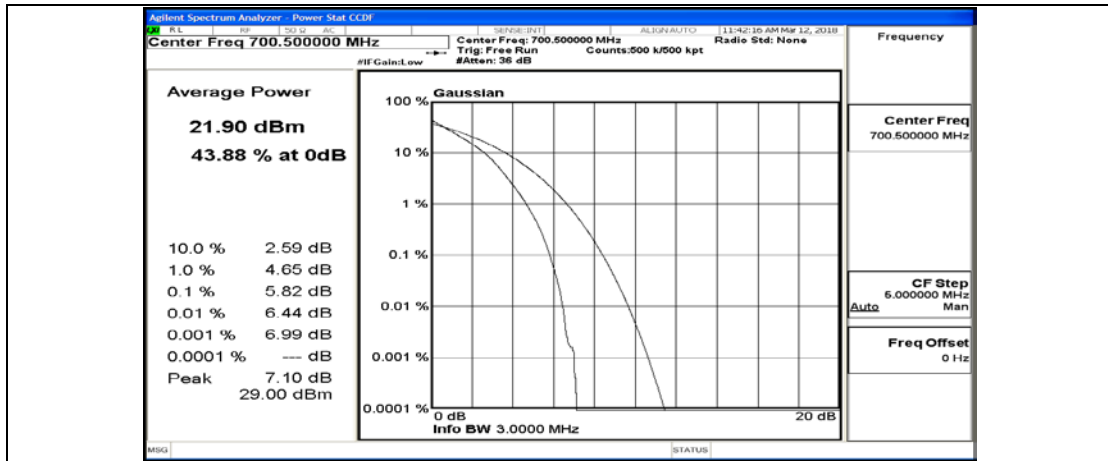| (Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#0 |
|---|
| |
| (Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#7 |
| |
| (Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#14 |
| |
| (Channel Bandwidth: 3 MHz)_LCH_QPSK_8RB#0 |
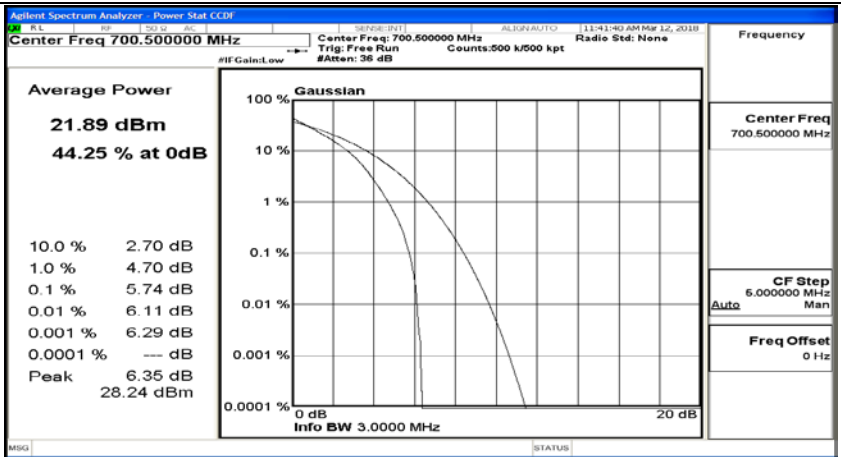
(Channel Bandwidth: 3 MHz)_LCH_QPSK_8RB#4
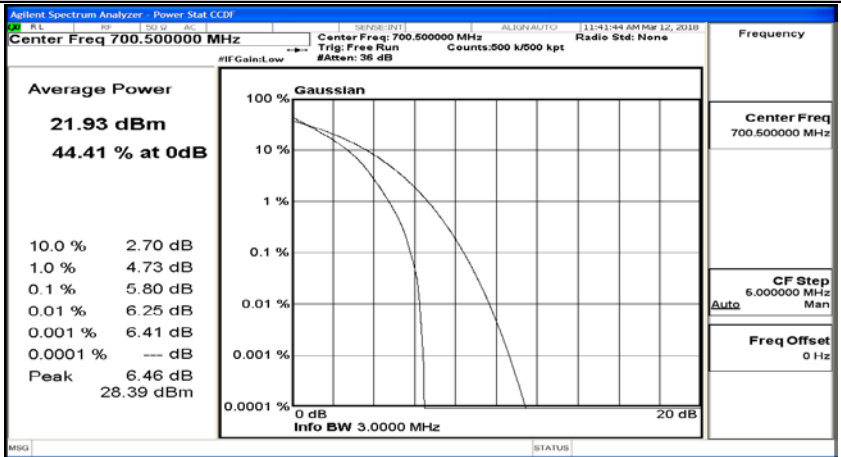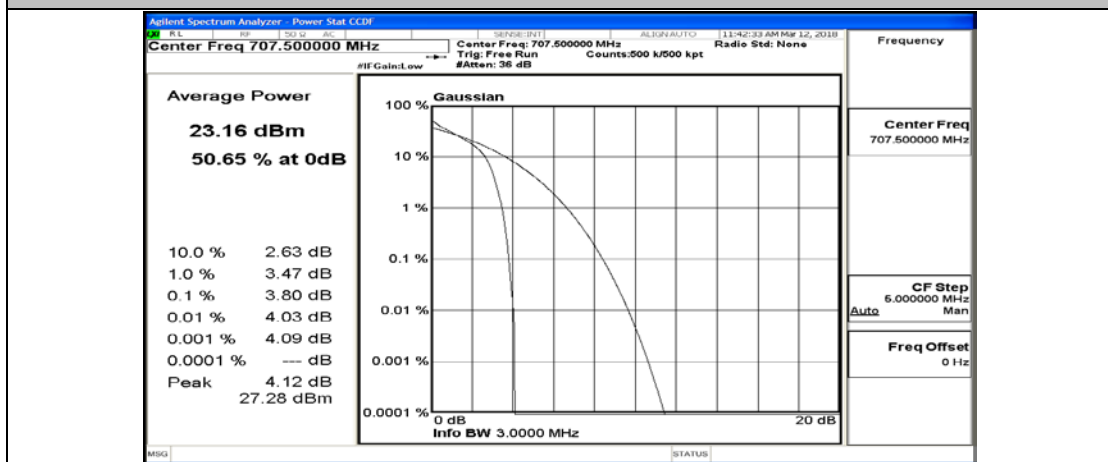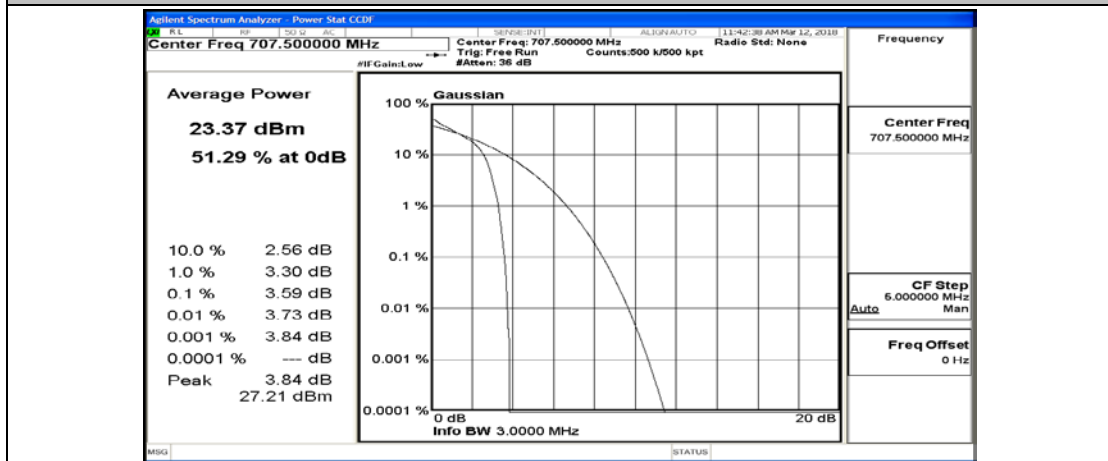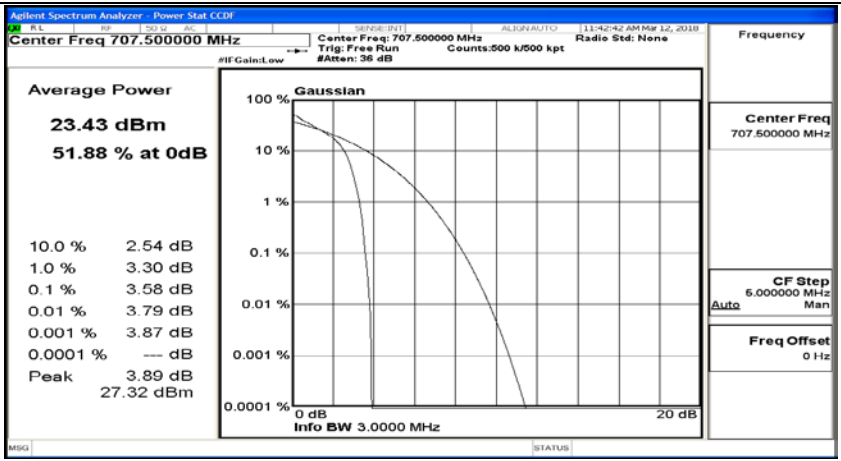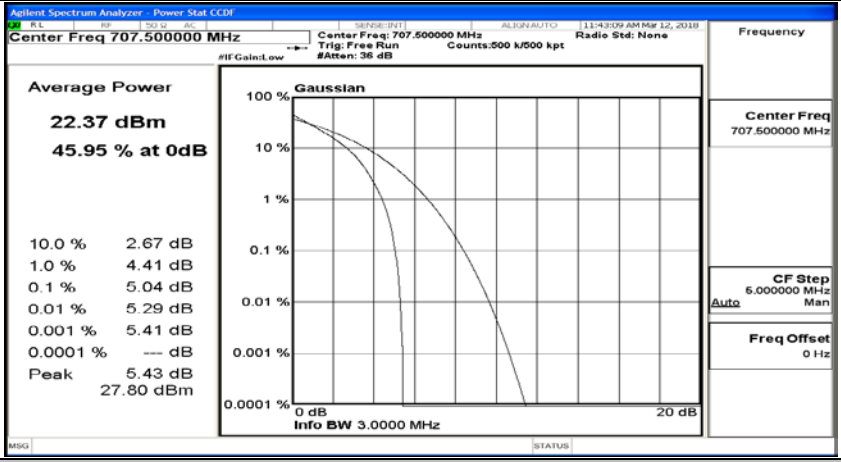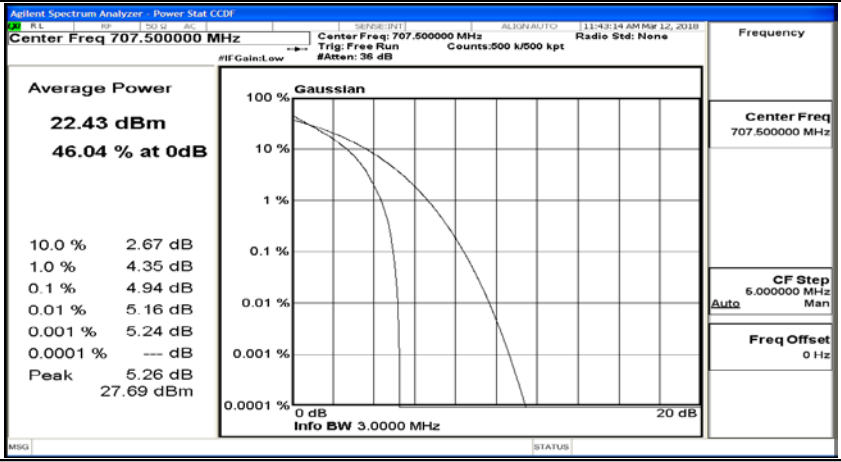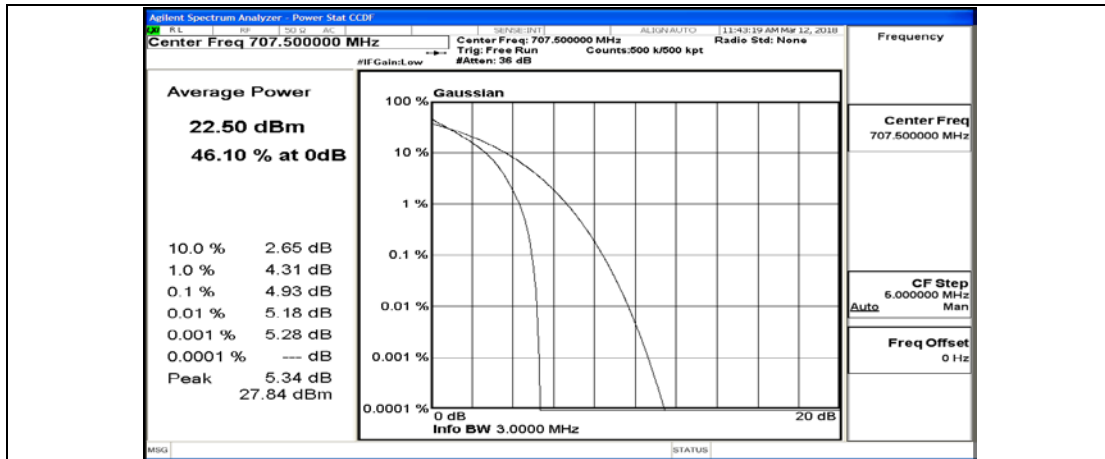

(Channel Bandwidth: 3 MHz)_LCH_QPSK_8RB#7

(Channel Bandwidth: 3 MHz)_LCH_QPSK_15RB#0

(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#0

(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#7

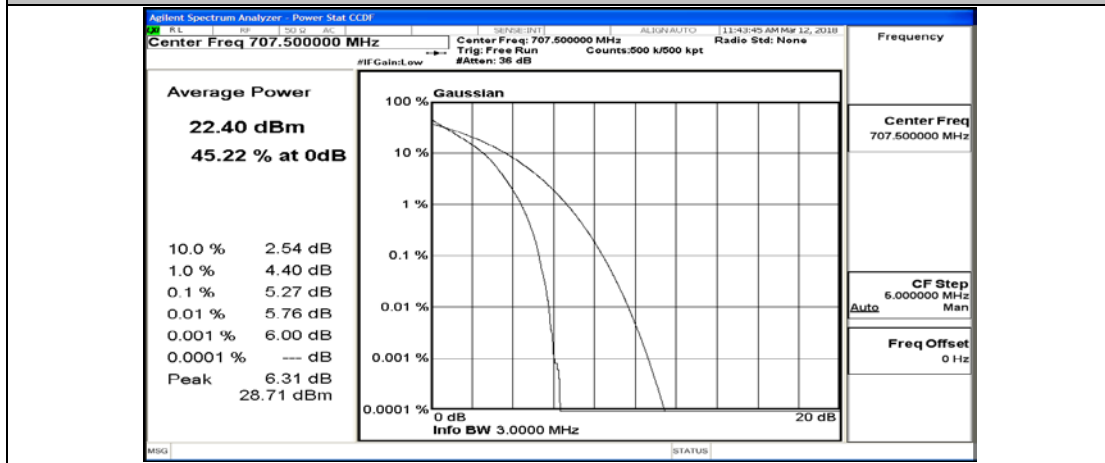| (Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#14 |
|---|

(Channel Bandwidth: 3 MHz)_MCH_QPSK_8RB#0
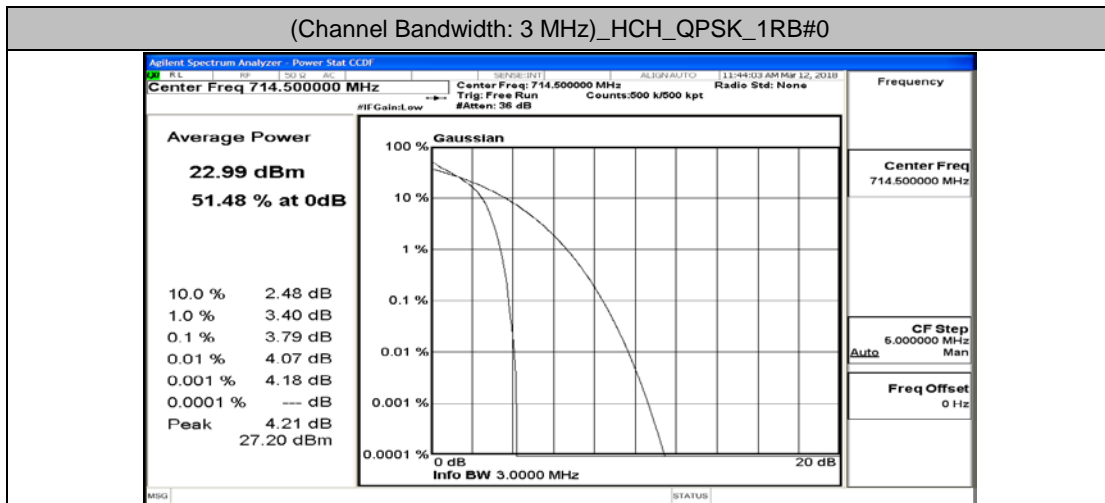

(Channel Bandwidth: 3 MHz)_MCH_QPSK_8RB#4

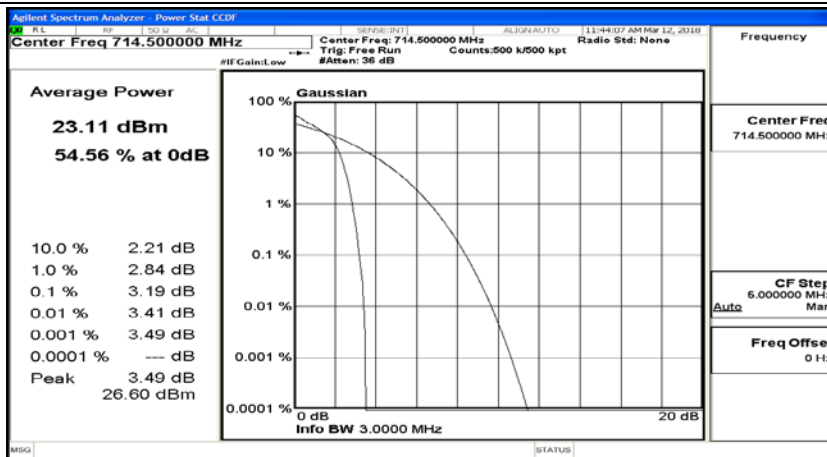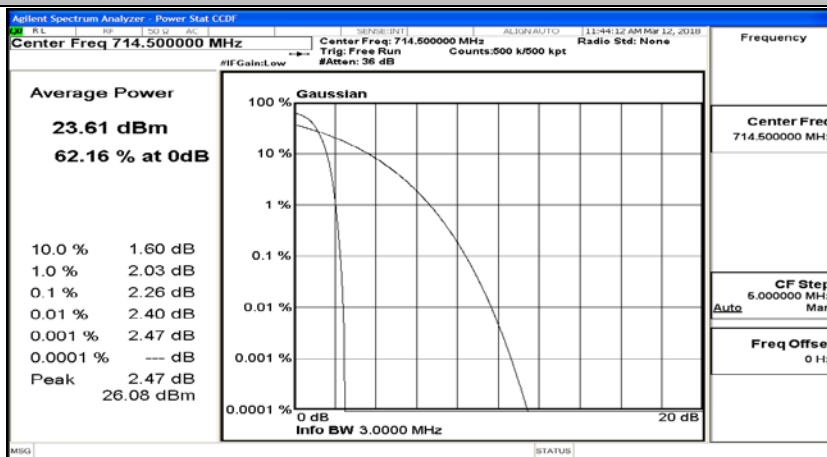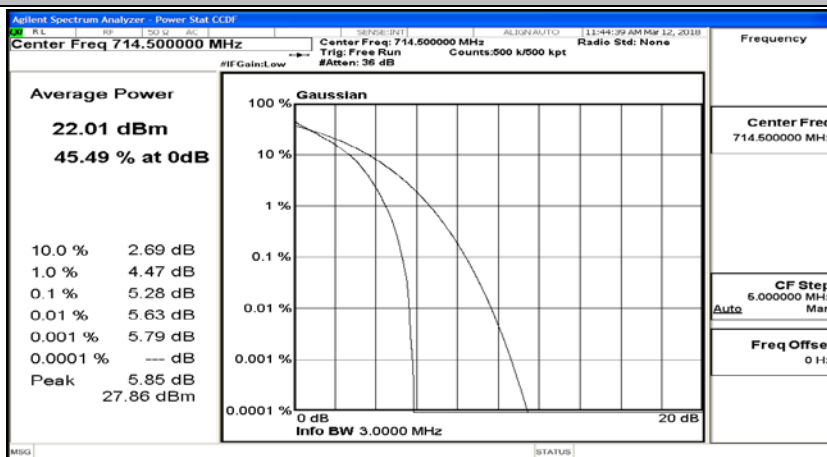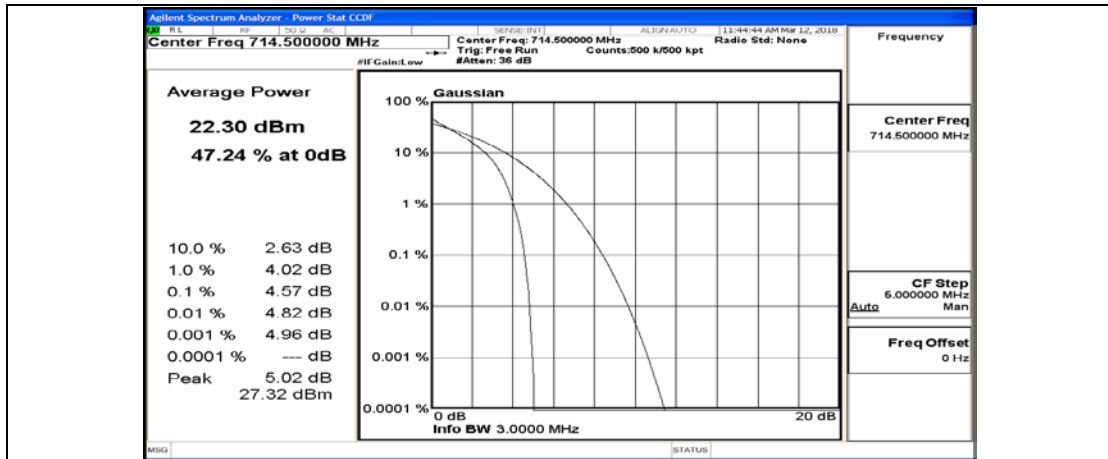(Channel Bandwidth: 3 MHz)_MCH_QPSK_8RB#7

(Channel Bandwidth: 3 MHz)_MCH_QPSK_15RB#0

(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#0

(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#7

Agilent Spectrum Analyzer - Power Stat CCDF

Center Freq 714.500000 MHz

Center Freq: 714.500000 MHz — SENSE:INT — ALIGN AUTO — 11:44:07 AM Mar 12, 2018
Trig: Free Run — Counts:500 k/500 kpt — Radio Std: None
#Atten: 36 dB
#IF Gain:Low

Frequency

Average Power

23.11 dBm

54.56 % at 0dB

10.0 %	2.21 dB
1.0 %	2.84 dB
0.1 %	3.19 dB
0.01 %	3.41 dB
0.001 %	3.49 dB
0.0001 %	--- dB
Peak	3.49 dB
	26.60 dBm

Gaussian

Info BW 3.0000 MHz

Center Freq 714.500000 MHz

CF Step 5.000000 MHz — Auto — Man

Freq Offset 0 Hz

(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#14

Agilent Spectrum Analyzer - Power Stat CCDF

Center Freq 714.500000 MHz

Center Freq: 714.500000 MHz — SENSE:INT — ALIGN AUTO — 11:44:12 AM Mar 12, 2018
Trig: Free Run — Counts:500 k/500 kpt — Radio Std: None
#Atten: 36 dB
#IF Gain:Low

Frequency

Average Power

23.61 dBm

62.16 % at 0dB

10.0 %	1.60 dB
1.0 %	2.03 dB
0.1 %	2.26 dB
0.01 %	2.40 dB
0.001 %	2.47 dB
0.0001 %	--- dB
Peak	2.47 dB
	26.08 dBm

Gaussian

Info BW 3.0000 MHz

Center Freq 714.500000 MHz

CF Step 5.000000 MHz — Auto — Man

Freq Offset 0 Hz

(Channel Bandwidth: 3 MHz)_HCH_QPSK_8RB#0

Agilent Spectrum Analyzer - Power Stat CCDF

Center Freq 714.500000 MHz

Center Freq: 714.500000 MHz — SENSE:INT — ALIGN AUTO — 11:44:39 AM Mar 12, 2018
Trig: Free Run — Counts:500 k/500 kpt — Radio Std: None
#Atten: 36 dB
#IF Gain:Low

Frequency

Average Power

22.01 dBm

45.49 % at 0dB

10.0 %	2.69 dB
1.0 %	4.47 dB
0.1 %	5.28 dB
0.01 %	5.63 dB
0.001 %	5.79 dB
0.0001 %	--- dB
Peak	5.85 dB
	27.86 dBm

Gaussian

Info BW 3.0000 MHz

Center Freq 714.500000 MHz

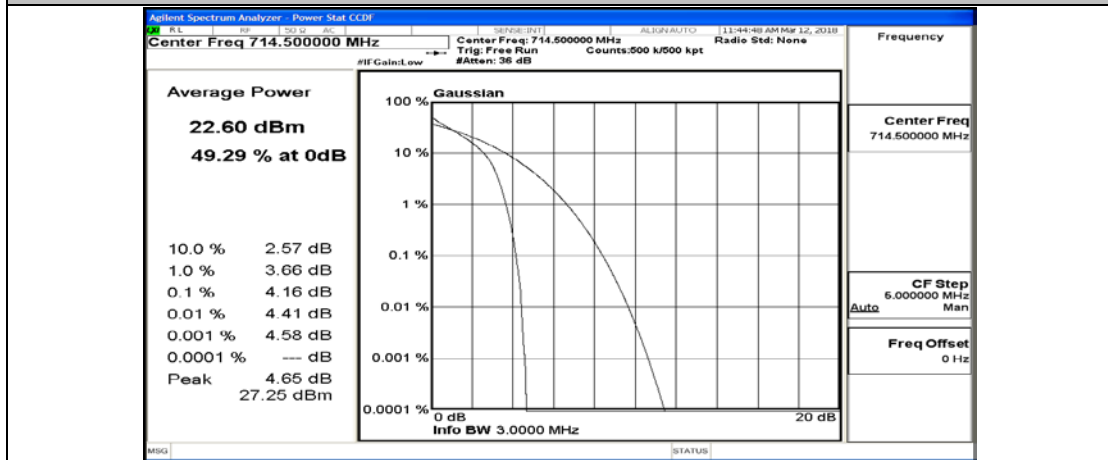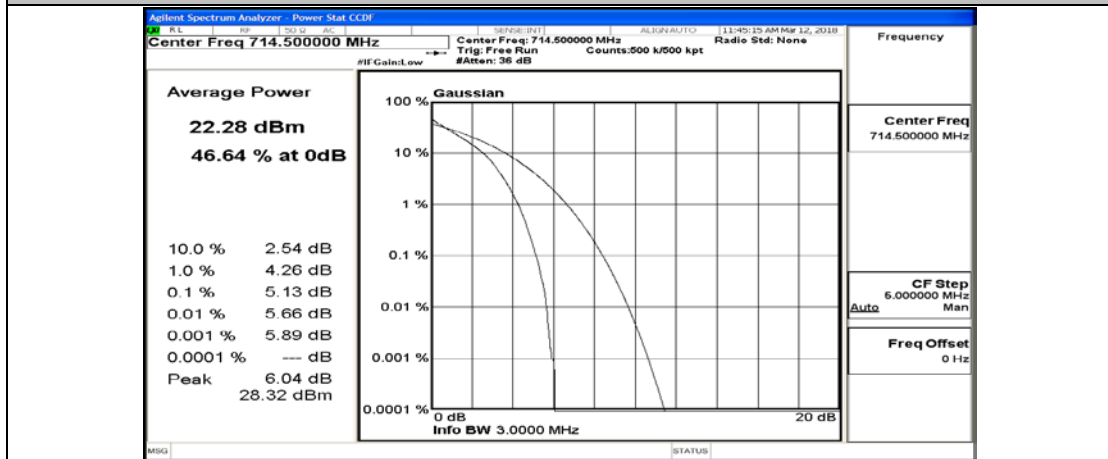CF Step 5.000000 MHz — Auto — Man

Freq Offset 0 Hz

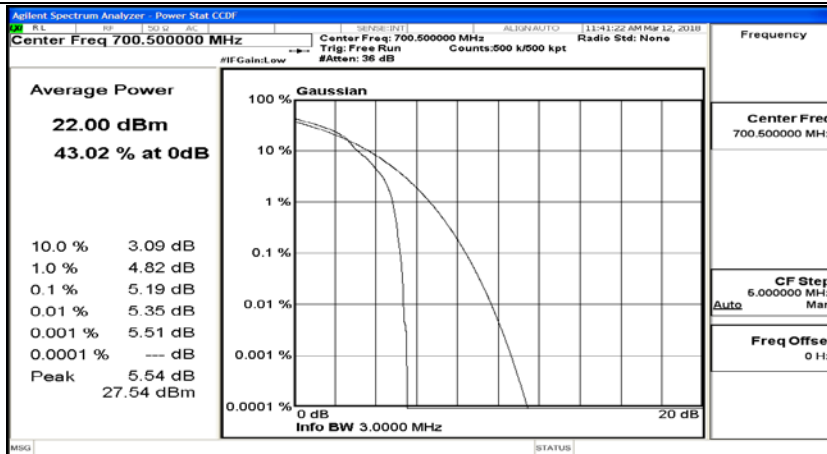(Channel Bandwidth: 3 MHz)_HCH_QPSK_8RB#4

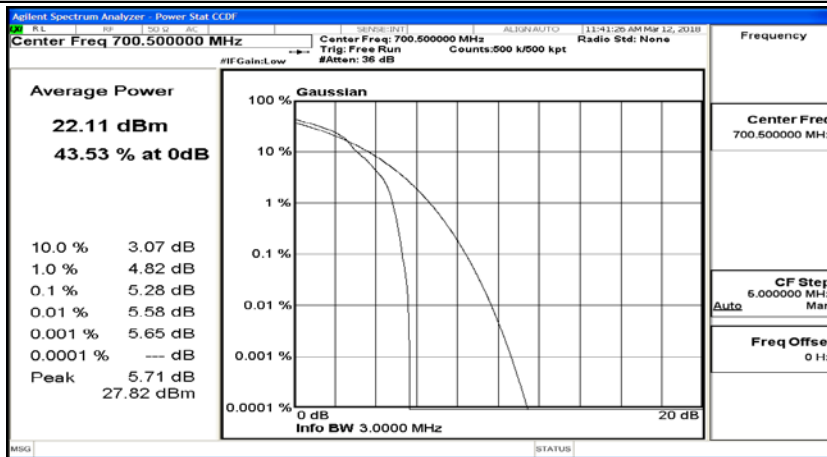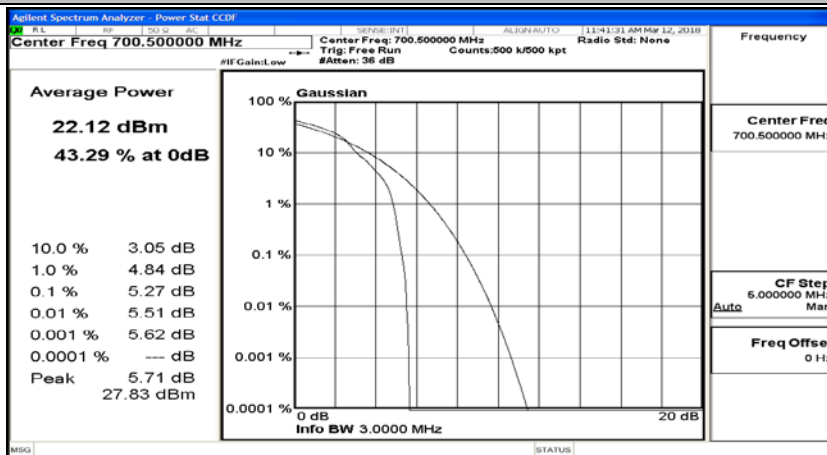(Channel Bandwidth: 3 MHz)_HCH_QPSK_8RB#7

(Channel Bandwidth: 3 MHz)_HCH_QPSK_15RB#0

(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#0

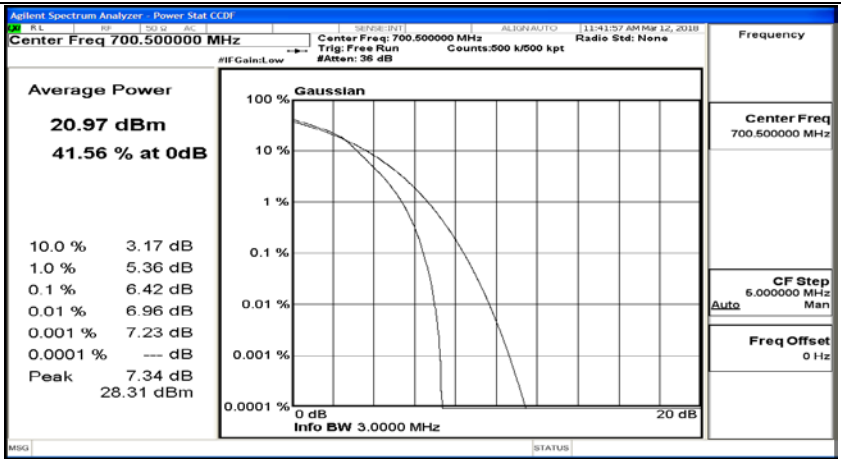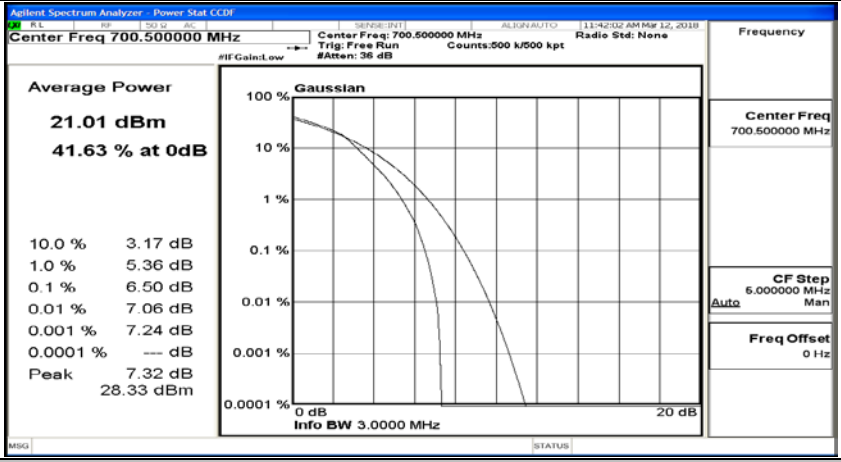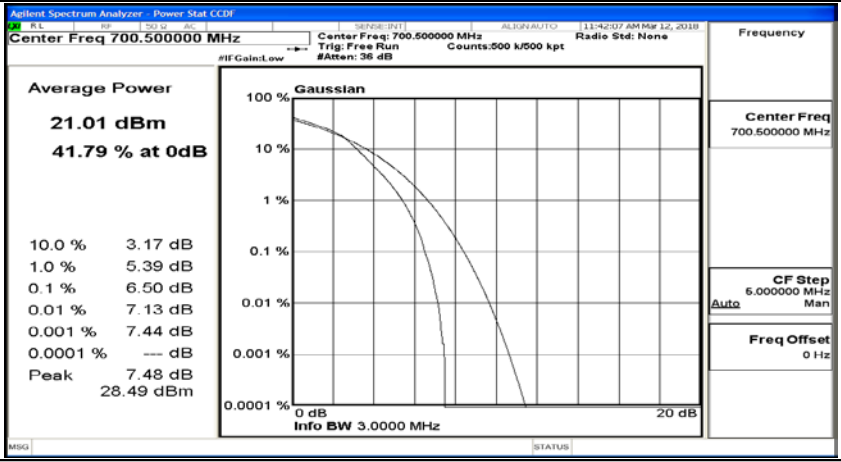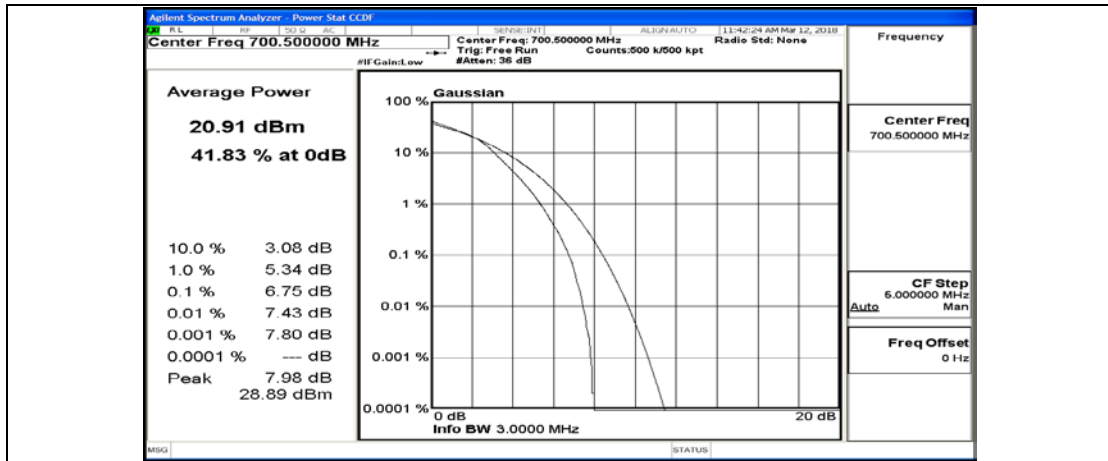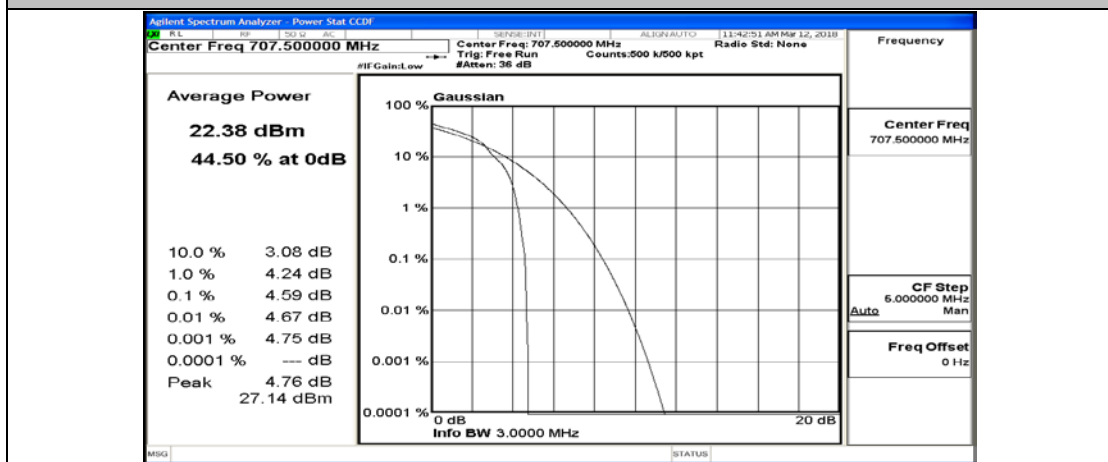| (Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#7 |
| --- |

(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#14

(Channel Bandwidth: 3 MHz)_LCH_16QAM_8RB#0

Agilent Spectrum Analyzer - Power Stat CCDF

Center Freq 700.500000 MHz
#IFGain:Low

Center Freq: 700.500000 MHz
Trig: Free Run
#Atten: 36 dB

Radio Std: None
Counts:500 k/500 kpt

Average Power

20.97 dBm

41.56 % at 0dB

10.0 %	3.17 dB
1.0 %	5.36 dB
0.1 %	6.42 dB
0.01 %	6.96 dB
0.001 %	7.23 dB
0.0001 %	--- dB
Peak	7.34 dB
	28.31 dBm

Info BW 3.0000 MHz

(Channel Bandwidth: 3 MHz)_LCH_16QAM_8RB#4

Agilent Spectrum Analyzer - Power Stat CCDF

Center Freq 700.500000 MHz
#IFGain:Low

Center Freq: 700.500000 MHz
Trig: Free Run
#Atten: 36 dB

Radio Std: None
Counts:500 k/500 kpt

Average Power

21.01 dBm

41.63 % at 0dB

10.0 %	3.17 dB
1.0 %	5.36 dB
0.1 %	6.50 dB
0.01 %	7.06 dB
0.001 %	7.24 dB
0.0001 %	--- dB
Peak	7.32 dB
	28.33 dBm

Info BW 3.0000 MHz

(Channel Bandwidth: 3 MHz)_LCH_16QAM_8RB#7

Agilent Spectrum Analyzer - Power Stat CCDF

Center Freq 700.500000 MHz
#IFGain:Low

Center Freq: 700.500000 MHz
Trig: Free Run
#Atten: 36 dB

Radio Std: None
Counts:500 k/500 kpt

Average Power

21.01 dBm

41.79 % at 0dB

10.0 %	3.17 dB
1.0 %	5.39 dB
0.1 %	6.50 dB
0.01 %	7.13 dB
0.001 %	7.44 dB
0.0001 %	--- dB
Peak	7.48 dB
	28.49 dBm

Info BW 3.0000 MHz

(Channel Bandwidth: 3 MHz)_LCH_16QAM_15RB#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

Average Power

22.60 dBm

46.09 % at 0dB

10.0 %	3.03 dB
1.0 %	4.10 dB
0.1 %	4.46 dB
0.01 %	4.64 dB
0.001 %	4.74 dB
0.0001 %	--- dB
Peak	4.80 dB
	27.40 dBm

(Channel Bandwidth: 3 MHz)_MCH_16QAM_8RB#0

Average Power

21.43 dBm

42.58 % at 0dB

10.0 %	3.14 dB
1.0 %	5.08 dB
0.1 %	5.80 dB
0.01 %	6.15 dB
0.001 %	6.31 dB
0.0001 %	--- dB
Peak	6.38 dB
	27.81 dBm

(Channel Bandwidth: 3 MHz)_MCH_16QAM_8RB#4

Average Power

21.51 dBm

42.83 % at 0dB

10.0 %	3.15 dB
1.0 %	5.04 dB
0.1 %	5.75 dB
0.01 %	6.04 dB
0.001 %	6.13 dB
0.0001 %	--- dB
Peak	6.17 dB
	27.68 dBm

(Channel Bandwidth: 3 MHz)_MCH_16QAM_8RB#7

(Channel Bandwidth: 3 MHz)_MCH_16QAM_15RB#0

(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#0

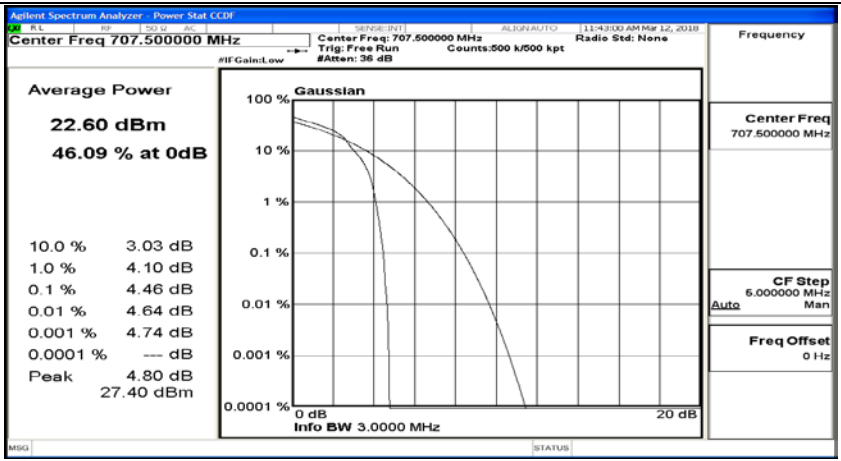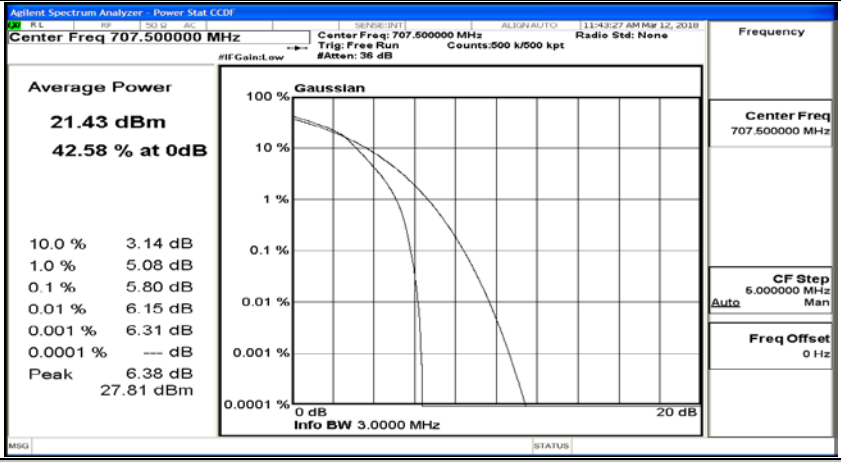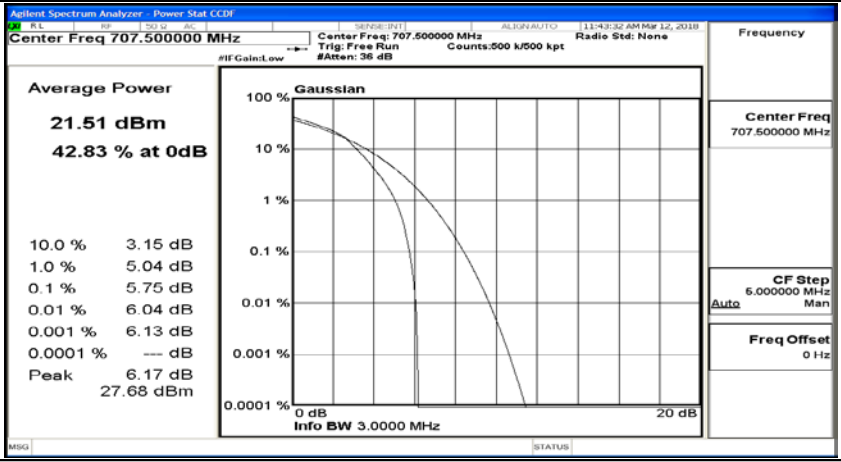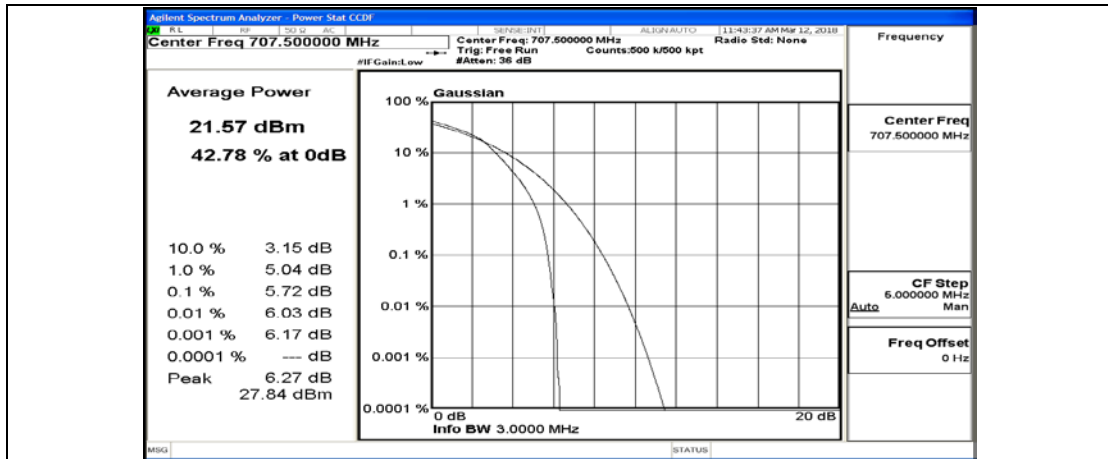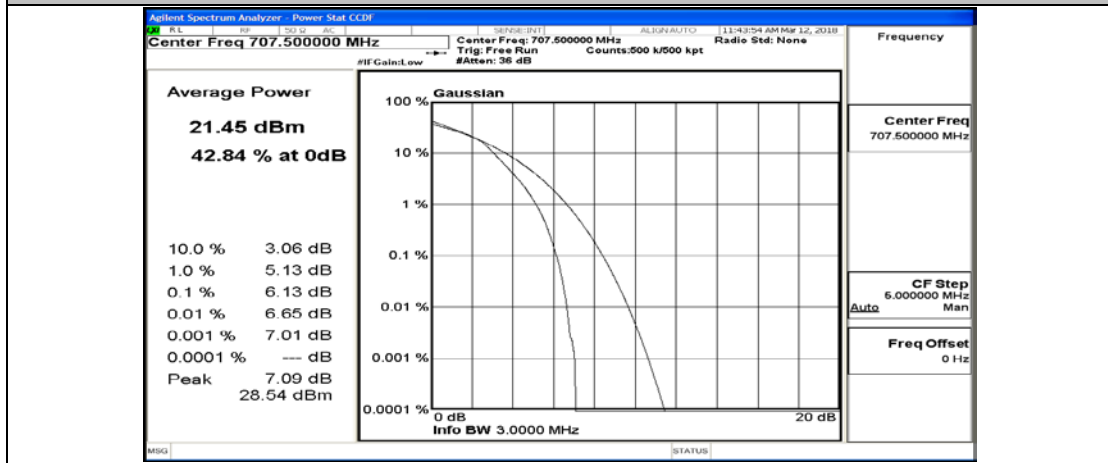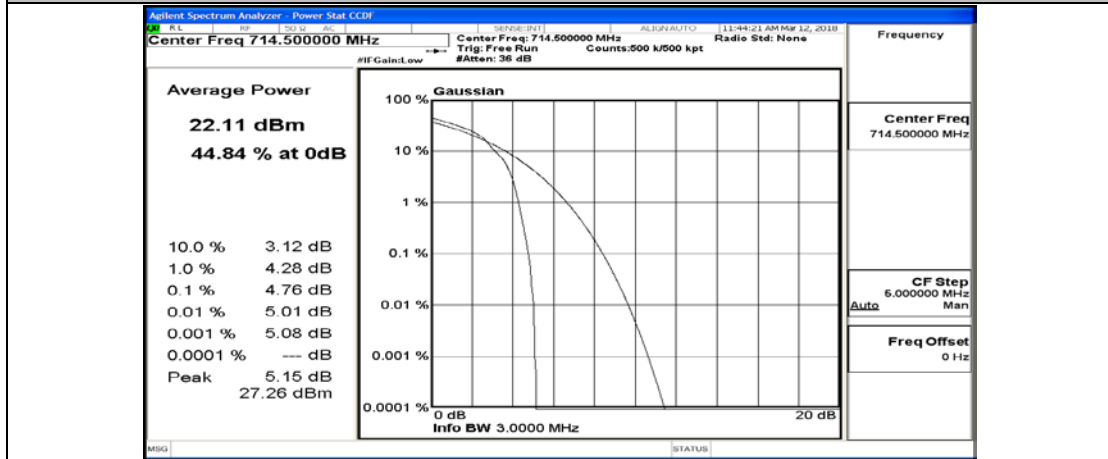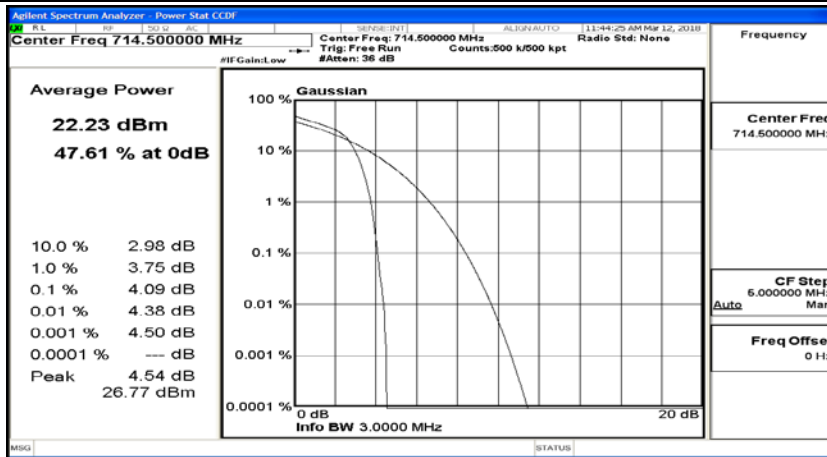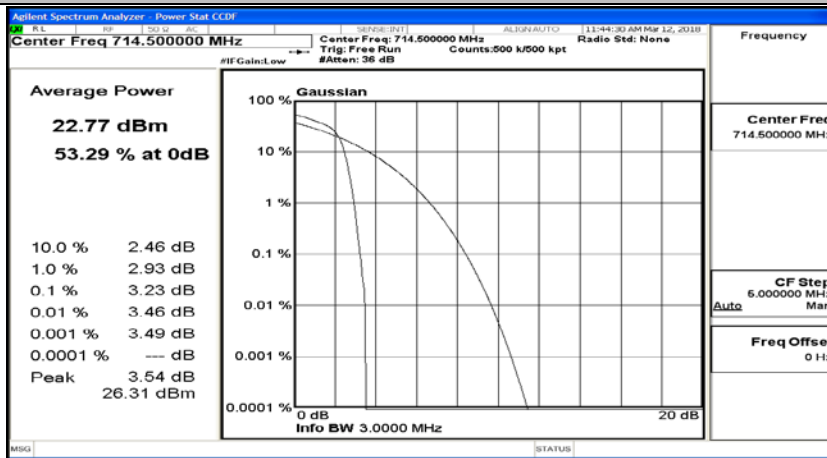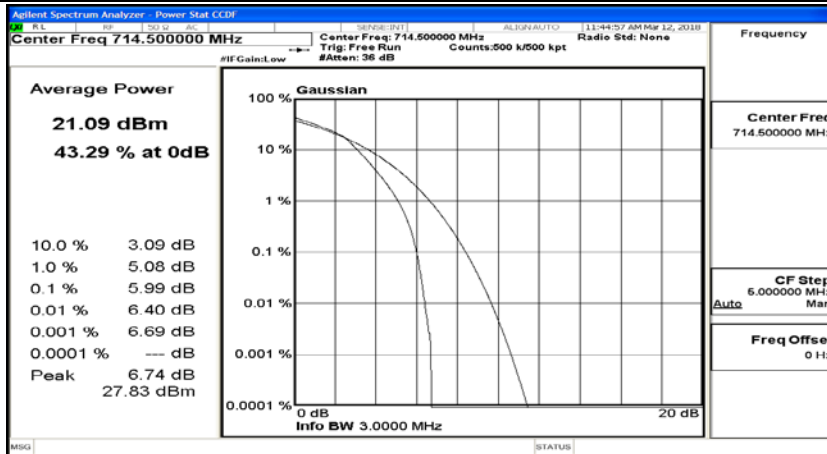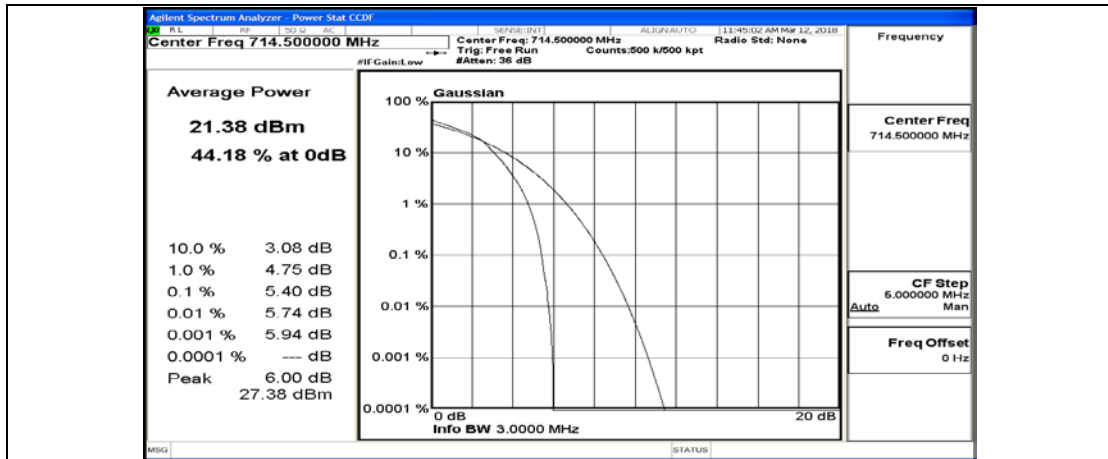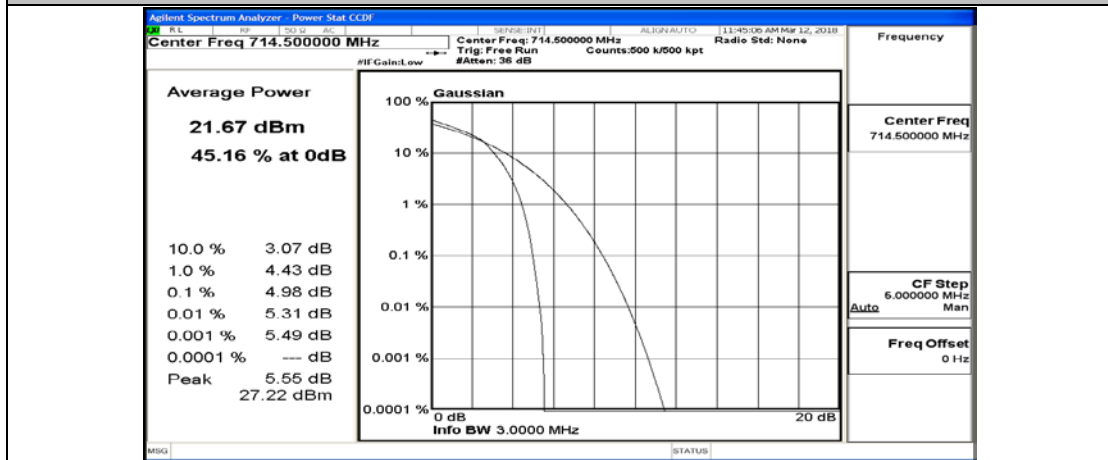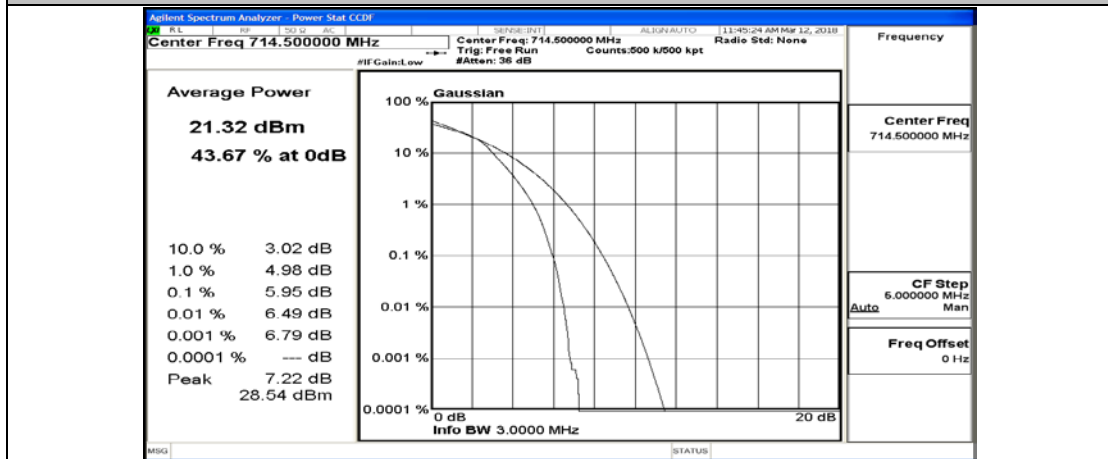| (Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#7 |
|---|

(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#14

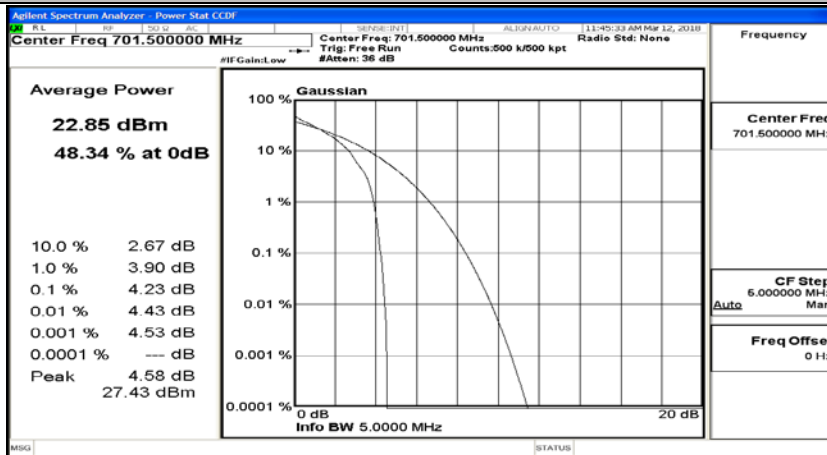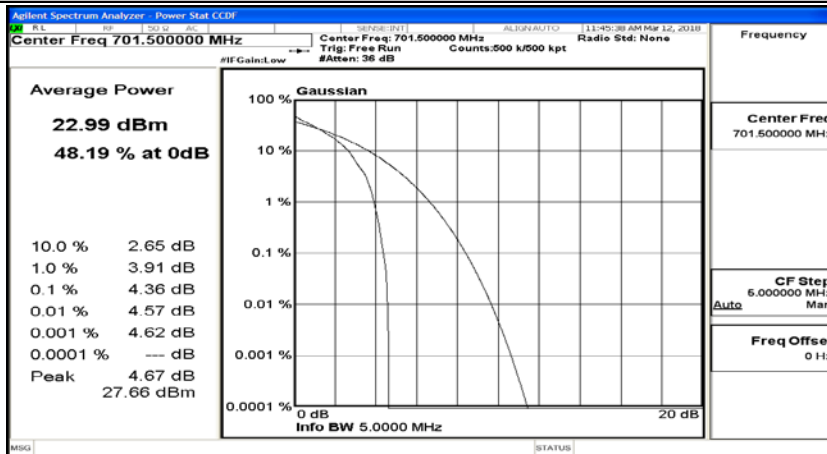(Channel Bandwidth: 3 MHz)_HCH_16QAM_8RB#0

(Channel Bandwidth: 3 MHz)_HCH_16QAM_8RB#4

Agilent Spectrum Analyzer - Power Stat CCDF
Center Freq 714.500000 MHz   Center Freq: 714.500000 MHz   Radio Std: None   Frequency
                              Trig: Free Run   Counts:500 k/500 kpt
              #IF Gain:Low   #Atten: 36 dB

Average Power   Gaussian

21.38 dBm   Center Freq
44.18 % at 0dB   714.500000 MHz

10.0 %   3.08 dB
1.0 %   4.75 dB
0.1 %   5.40 dB   CF Step
0.01 %   5.74 dB   6.000000 MHz
0.001 %   5.94 dB   Auto   Man
0.0001 %   --- dB
Peak   6.00 dB   Freq Offset
           27.38 dBm   0 Hz

Info BW 3.0000 MHz

(Channel Bandwidth: 3 MHz)_HCH_16QAM_8RB#7

Agilent Spectrum Analyzer - Power Stat CCDF
Center Freq 714.500000 MHz   Center Freq: 714.500000 MHz   Radio Std: None   Frequency
                              Trig: Free Run   Counts:500 k/500 kpt
              #IF Gain:Low   #Atten: 36 dB

Average Power   Gaussian

21.67 dBm   Center Freq
45.16 % at 0dB   714.500000 MHz

10.0 %   3.07 dB
1.0 %   4.43 dB
0.1 %   4.98 dB   CF Step
0.01 %   5.31 dB   6.000000 MHz
0.001 %   5.49 dB   Auto   Man
0.0001 %   --- dB
Peak   5.55 dB   Freq Offset
           27.22 dBm   0 Hz

Info BW 3.0000 MHz

(Channel Bandwidth: 3 MHz)_HCH_16QAM_15RB#0

Agilent Spectrum Analyzer - Power Stat CCDF
Center Freq 714.500000 MHz   Center Freq: 714.500000 MHz   Radio Std: None   Frequency
                              Trig: Free Run   Counts:500 k/500 kpt
              #IF Gain:Low   #Atten: 36 dB

Average Power   Gaussian

21.32 dBm   Center Freq
43.67 % at 0dB   714.500000 MHz

10.0 %   3.02 dB
1.0 %   4.98 dB
0.1 %   5.95 dB   CF Step
0.01 %   6.49 dB   6.000000 MHz
0.001 %   6.79 dB   Auto   Man
0.0001 %   --- dB
Peak   7.22 dB   Freq Offset
           28.54 dBm   0 Hz

Info BW 3.0000 MHz

Channel Bandwidth: 5 MHz

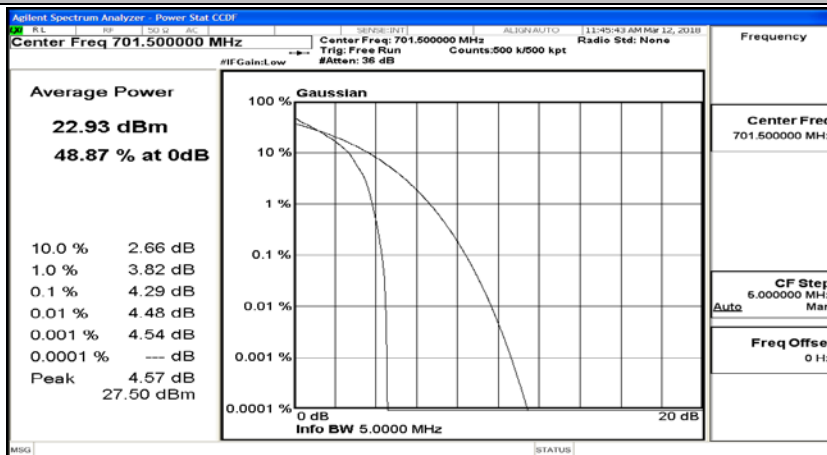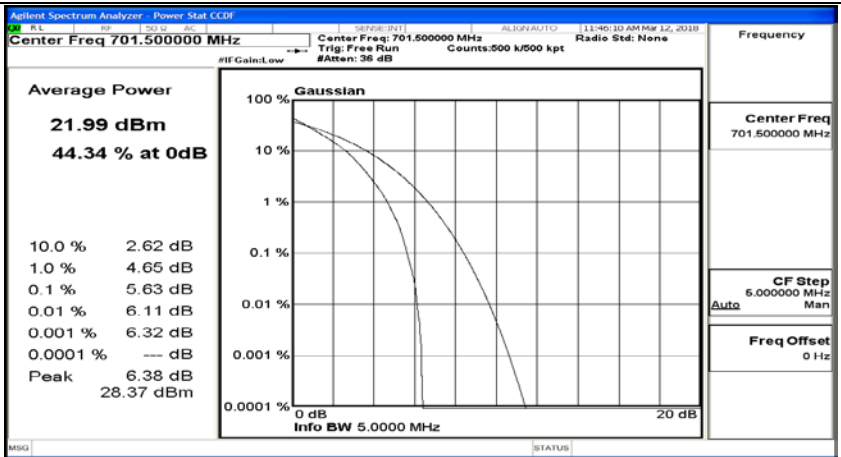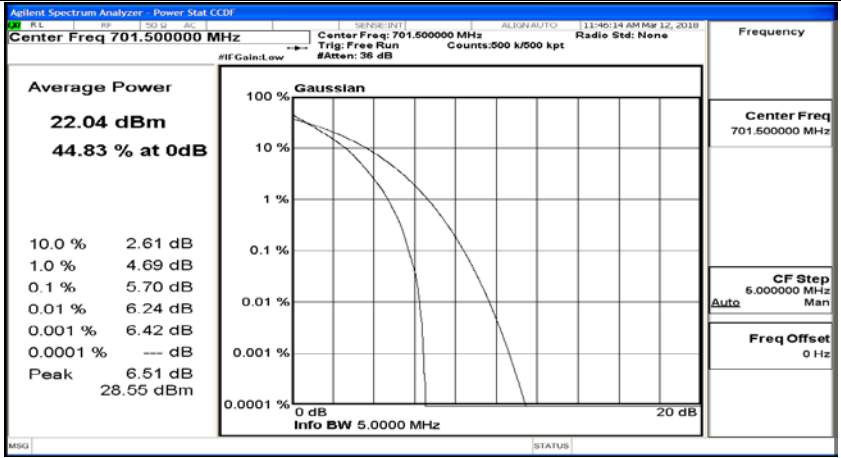| (Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#0 |
|---|
| |
| (Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#12 |
| |
| (Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#24 |
| |
| (Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#0 |

Agilent Spectrum Analyzer - Power Stat CCDF

Center Freq 701.500000 MHz

Center Freq: 701.500000 MHz Radio Std: None
Trig: Free Run Counts:500 k/500 kpt
#Atten: 36 dB
#IF Gain:Low

SENSE:INT   ALIGN AUTO   11:46:10 AM Mar 12, 2018

Average Power

21.99 dBm

44.34 % at 0dB

10.0 %	2.62 dB
1.0 %	4.65 dB
0.1 %	5.63 dB
0.01 %	6.11 dB
0.001 %	6.32 dB
0.0001 %	--- dB
Peak	6.38 dB
	28.37 dBm

Gaussian

Info BW 5.0000 MHz

Frequency

Center Freq 701.500000 MHz

CF Step 5.000000 MHz Auto Man

Freq Offset 0 Hz

(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#6

Agilent Spectrum Analyzer - Power Stat CCDF

Center Freq 701.500000 MHz

Center Freq: 701.500000 MHz Radio Std: None
Trig: Free Run Counts:500 k/500 kpt
#Atten: 36 dB
#IF Gain:Low

SENSE:INT   ALIGN AUTO   11:46:14 AM Mar 12, 2018

Average Power

22.04 dBm

44.83 % at 0dB

10.0 %	2.61 dB
1.0 %	4.69 dB
0.1 %	5.70 dB
0.01 %	6.24 dB
0.001 %	6.42 dB
0.0001 %	--- dB
Peak	6.51 dB
	28.55 dBm

Gaussian

Info BW 5.0000 MHz

Frequency

Center Freq 701.500000 MHz

CF Step 5.000000 MHz Auto Man

Freq Offset 0 Hz

(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#13

Agilent Spectrum Analyzer - Power Stat CCDF

Center Freq 701.500000 MHz

Center Freq: 701.500000 MHz Radio Std: None
Trig: Free Run Counts:500 k/500 kpt
#Atten: 36 dB
#IF Gain:Low

SENSE:INT   ALIGN AUTO   11:46:19 AM Mar 12, 2018

Average Power

21.96 dBm

44.50 % at 0dB

10.0 %	2.59 dB
1.0 %	4.73 dB
0.1 %	5.80 dB
0.01 %	6.35 dB
0.001 %	6.49 dB
0.0001 %	--- dB
Peak	6.61 dB
	28.57 dBm

Gaussian

Info BW 5.0000 MHz

Frequency

Center Freq 701.500000 MHz

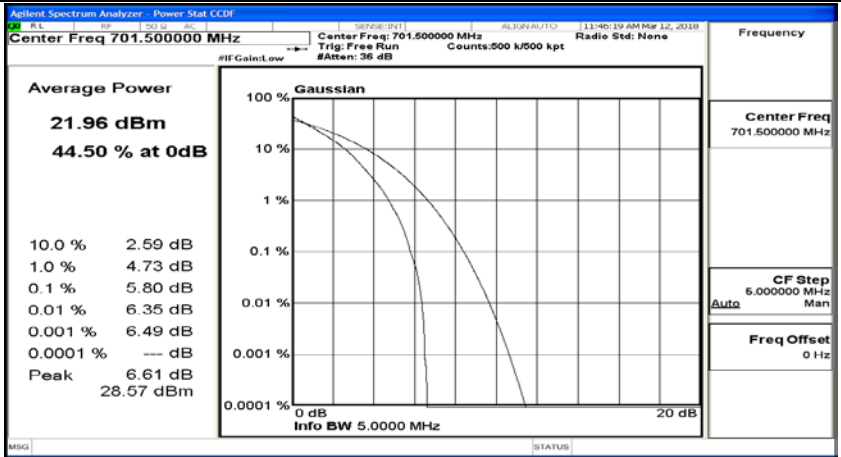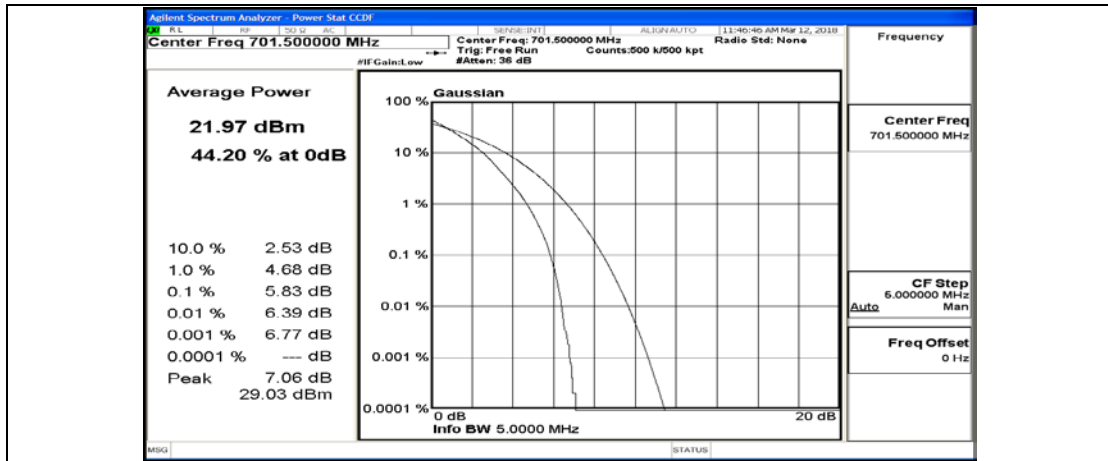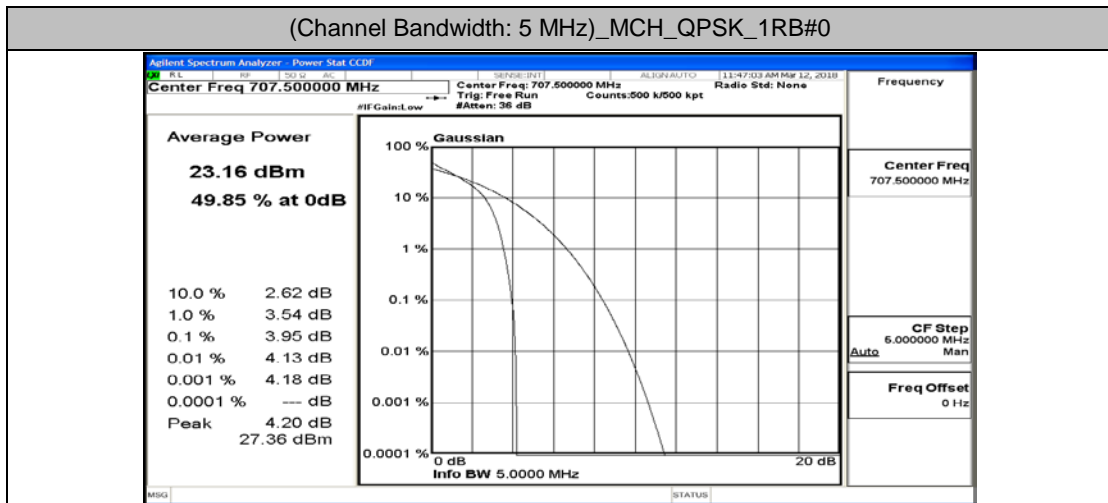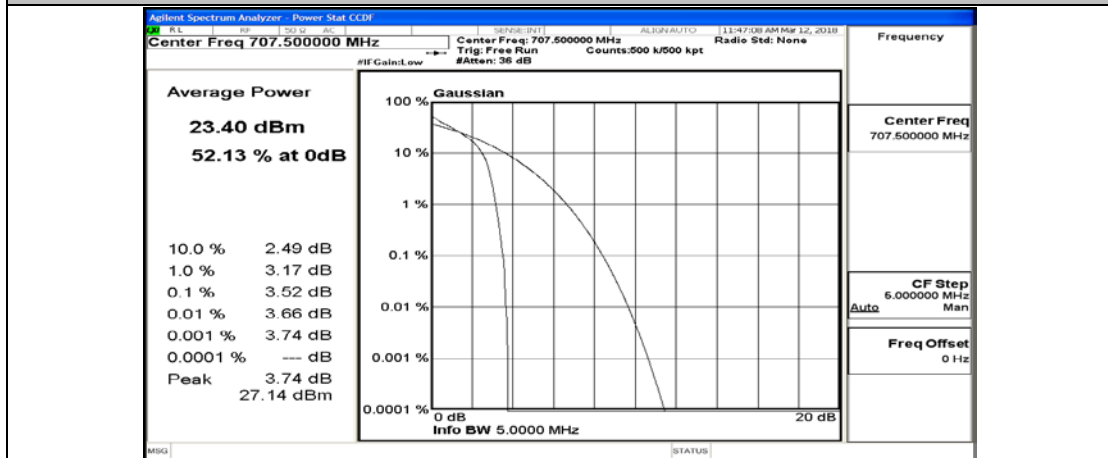CF Step 5.000000 MHz Auto Man

Freq Offset 0 Hz

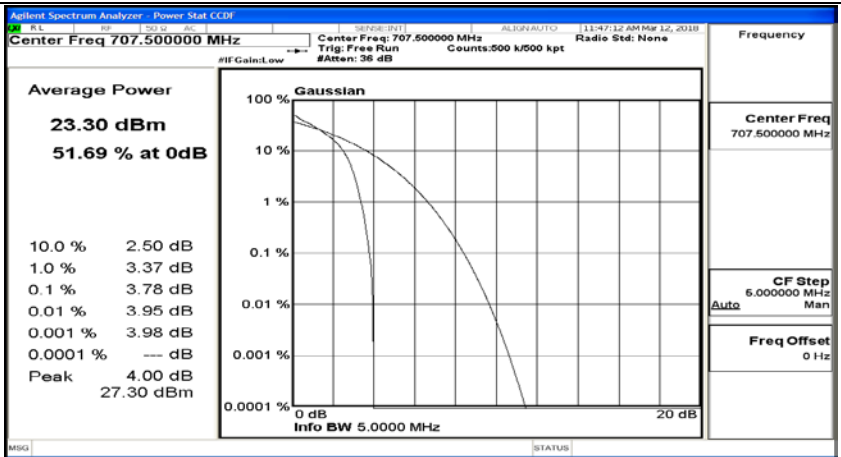**(Channel Bandwidth: 5 MHz)_LCH_QPSK_25RB#0**

(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#0

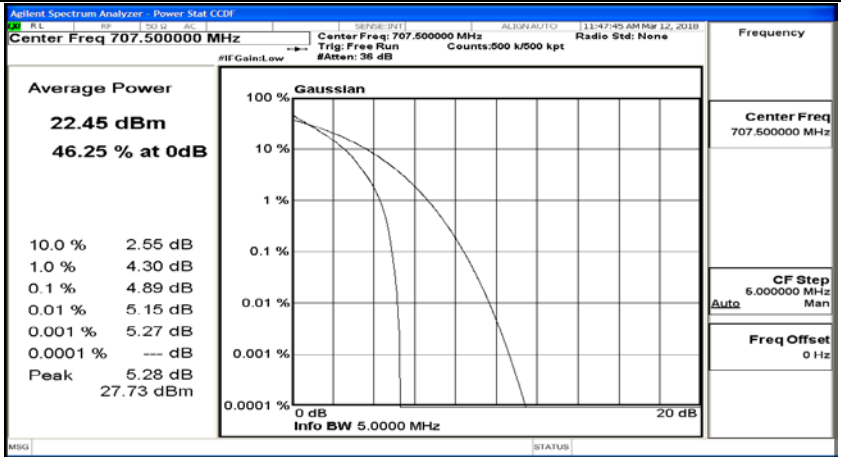| (Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#12 |
|---|

(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#24

Average Power

23.30 dBm

51.69 % at 0dB

10.0 %	2.50 dB
1.0 %	3.37 dB
0.1 %	3.78 dB
0.01 %	3.95 dB
0.001 %	3.98 dB
0.0001 %	--- dB
Peak	4.00 dB
	27.30 dBm

(Channel Bandwidth: 5 MHz)_MCH_QPSK_12RB#0

Average Power

22.36 dBm

45.53 % at 0dB

10.0 %	2.58 dB
1.0 %	4.45 dB
0.1 %	5.11 dB
0.01 %	5.41 dB
0.001 %	5.55 dB
0.0001 %	--- dB
Peak	5.65 dB
	28.01 dBm

(Channel Bandwidth: 5 MHz)_MCH_QPSK_12RB#6

Average Power

22.45 dBm

46.25 % at 0dB

10.0 %	2.55 dB
1.0 %	4.30 dB
0.1 %	4.89 dB
0.01 %	5.15 dB
0.001 %	5.27 dB
0.0001 %	--- dB
Peak	5.28 dB
	27.73 dBm

(Channel Bandwidth: 5 MHz)_MCH_QPSK_12RB#13