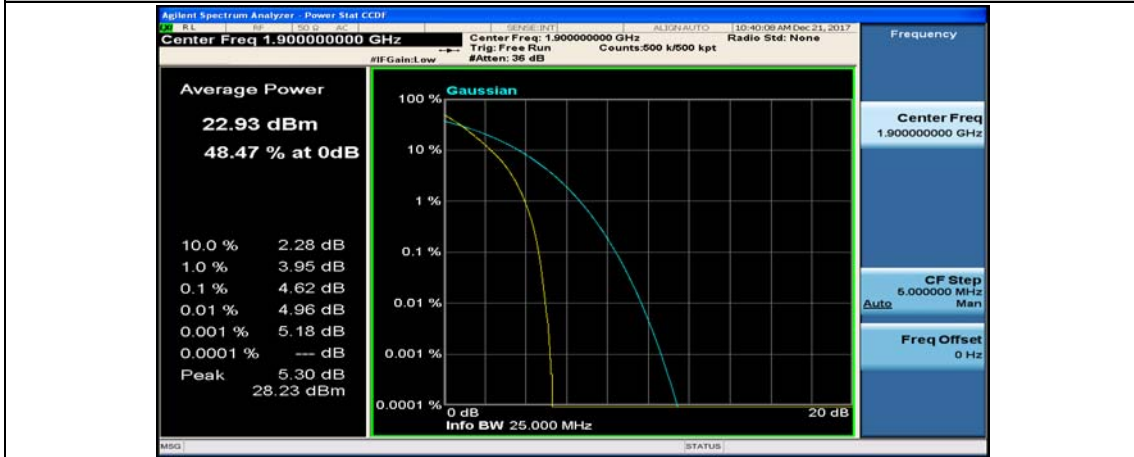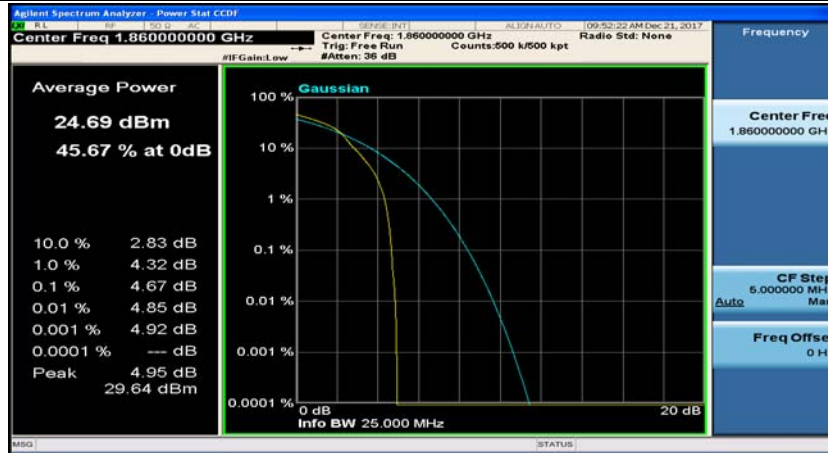(Channel Bandwidth:20 MHz)_HCH_QPSK_50RB#50
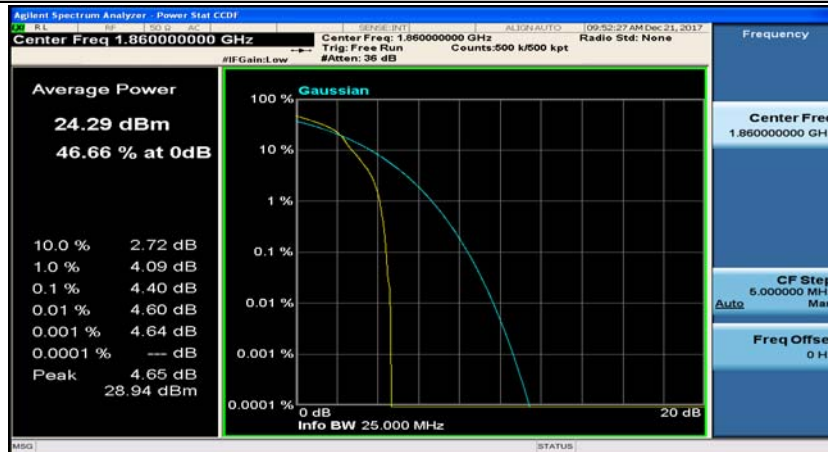

(Channel Bandwidth:20 MHz)_HCH_QPSK_100RB#0

(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

Agilent Spectrum Analyzer - Power Stat CCDF
Center Freq 1.860000000 GHz

Center Freq: 1.860000000 GHz
Trig: Free Run
#Atten: 36 dB
#IFGain:Low

SENSE:INT ALIGN AUTO 09:53:31 AM Dec 21, 2017
Counts:500 k/500 kpt Radio Std: None

Frequency

Average Power

22.97 dBm

44.60 % at 0dB

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

10.0 %   2.91 dB
1.0 %   4.92 dB
0.1 %   6.03 dB
0.01 %   6.64 dB
0.001 % 7.13 dB
0.0001 % --- dB
Peak   7.25 dB
         30.22 dBm

0 dB
Info BW 25.000 MHz
20 dB

Center Freq
1.860000000 GHz

CF Step
5.000000 MHz
Auto   Man

Freq Offset
0 Hz

MSG   STATUS

(Channel Bandwidth:20 MHz)_MCH_16QAM_1RB#0

Agilent Spectrum Analyzer - Power Stat CCDF
Center Freq 1.880000000 GHz

Center Freq: 1.880000000 GHz
Trig: Free Run
#Atten: 36 dB
#IFGain:Low

SENSE:INT ALIGN AUTO 09:54:00 AM Dec 21, 2017
Counts:500 k/500 kpt Radio Std: None

Frequency

Average Power

23.69 dBm

45.48 % at 0dB

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

10.0 %   2.83 dB
1.0 %   4.38 dB
0.1 %   4.73 dB
0.01 %   4.93 dB
0.001 % 4.97 dB
0.0001 % --- dB
Peak   5.03 dB
         28.72 dBm

0 dB
Info BW 25.000 MHz
20 dB

Center Freq
1.880000000 GHz

CF Step
5.000000 MHz
Auto   Man

Freq Offset
0 Hz

MSG   STATUS

(Channel Bandwidth:20 MHz)_MCH_16QAM_1RB#49

Agilent Spectrum Analyzer - Power Stat CCDF
Center Freq 1.880000000 GHz

Center Freq: 1.880000000 GHz
Trig: Free Run
#Atten: 36 dB
#IFGain:Low

SENSE:INT ALIGN AUTO 09:54:05 AM Dec 21, 2017
Counts:500 k/500 kpt Radio Std: None

Frequency

Average Power

23.18 dBm

44.66 % at 0dB

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

10.0 %   2.83 dB
1.0 %   4.55 dB
0.1 %   4.90 dB
0.01 %   5.08 dB
0.001 % 5.13 dB
0.0001 % --- dB
Peak   5.15 dB
         28.33 dBm

0 dB
Info BW 25.000 MHz
20 dB

Center Freq
1.880000000 GHz

CF Step
5.000000 MHz
Auto   Man

Freq Offset
0 Hz

MSG   STATUS

(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

(Channel Bandwidth:20 MHz)_HCH_16QAM_1RB#49

(Channel Bandwidth:20 MHz)_HCH_16QAM_1RB#99

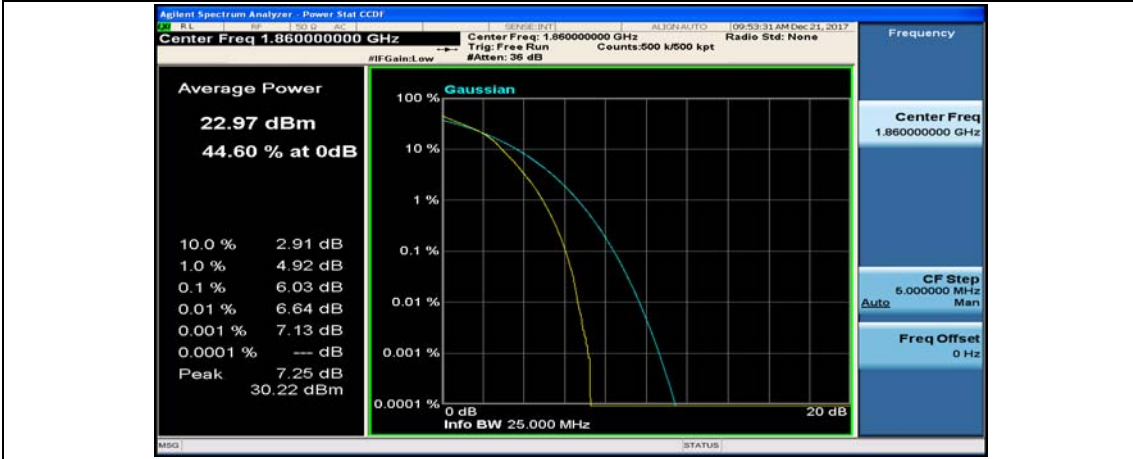(Channel Bandwidth:20 MHz)_HCH_16QAM_50RB#0

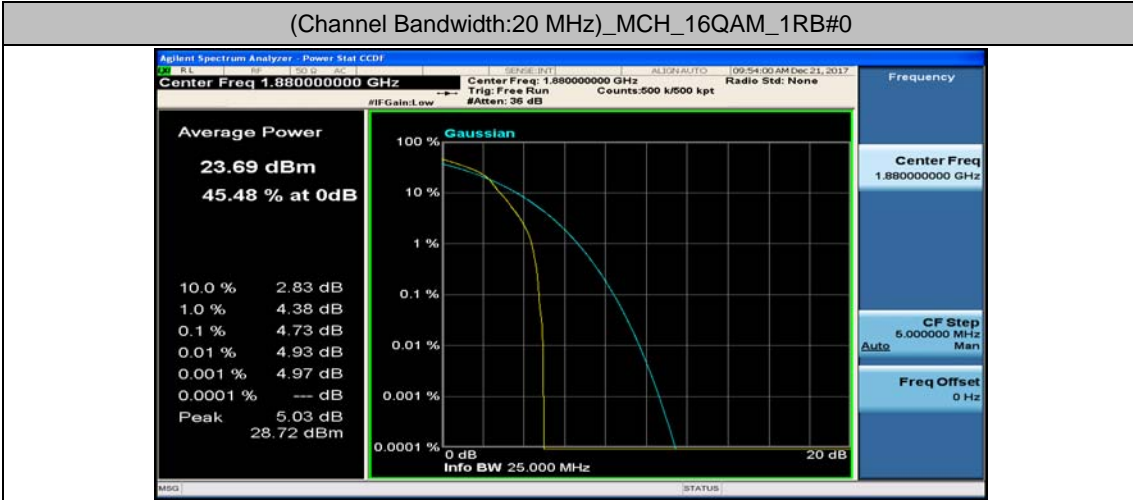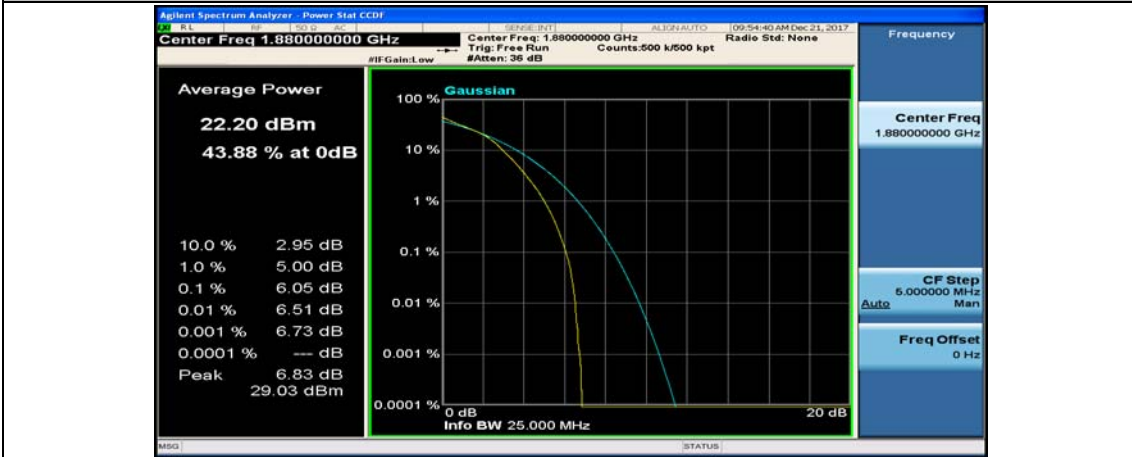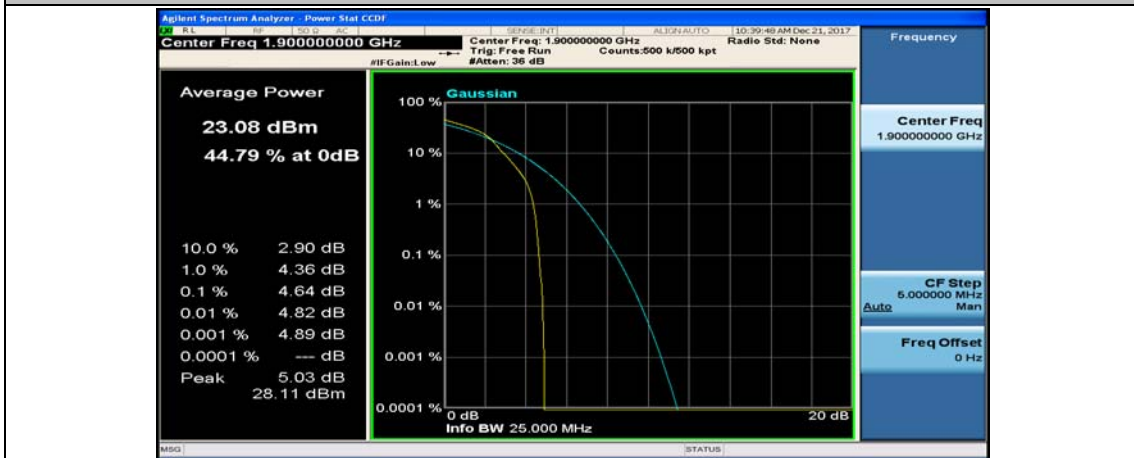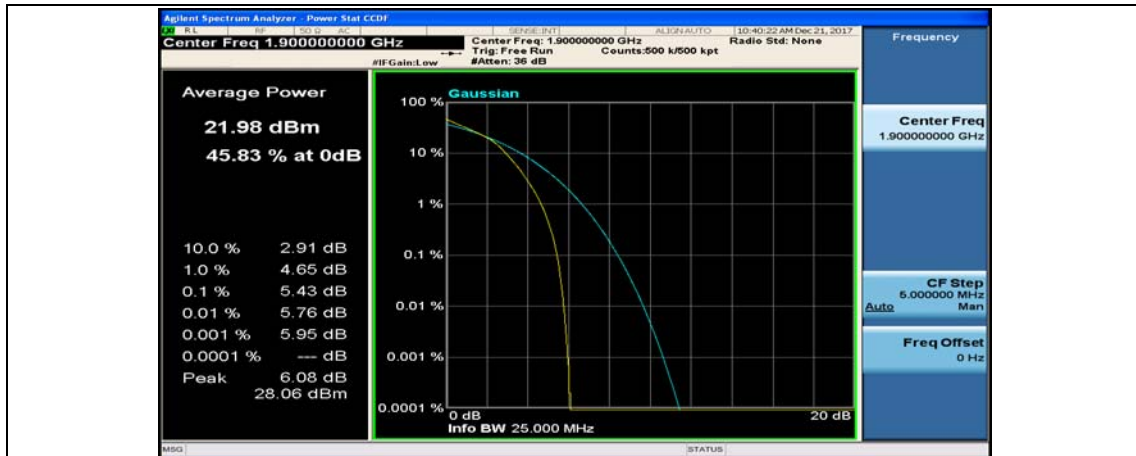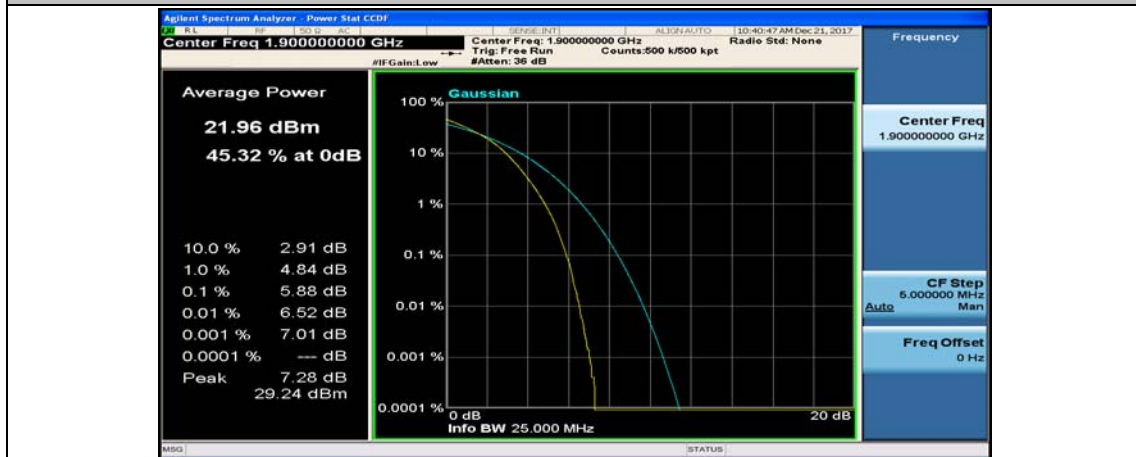(Channel Bandwidth:20 MHz)_HCH_16QAM_50RB#25

(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

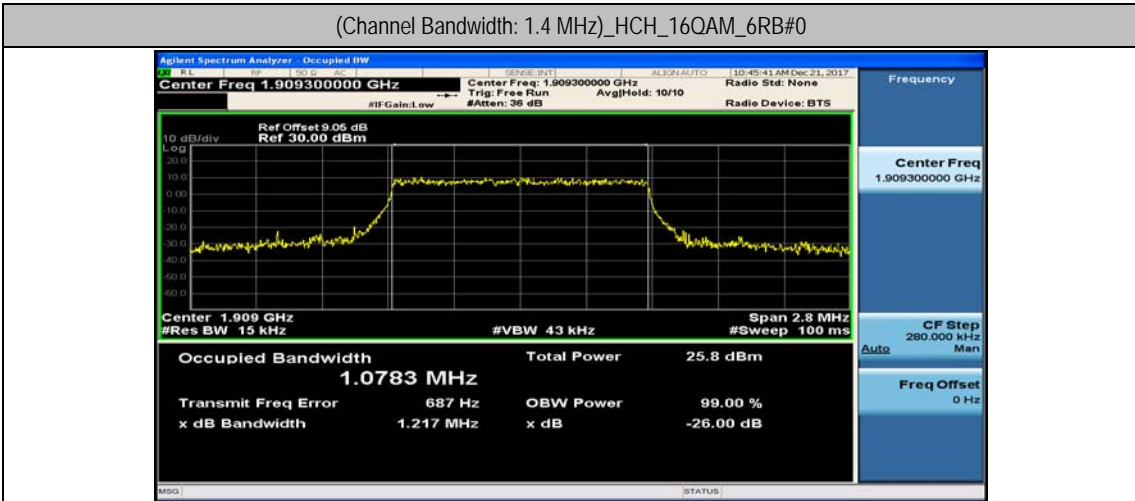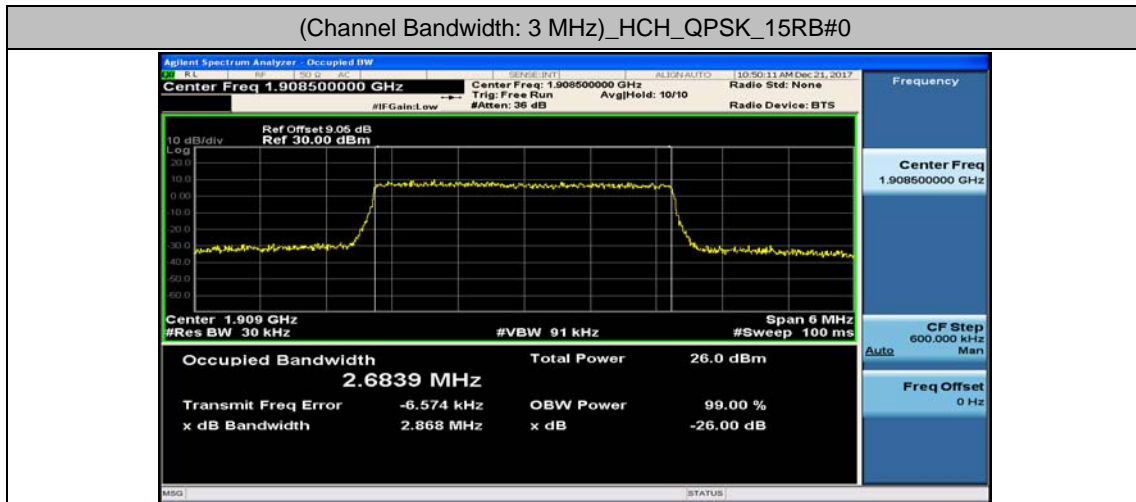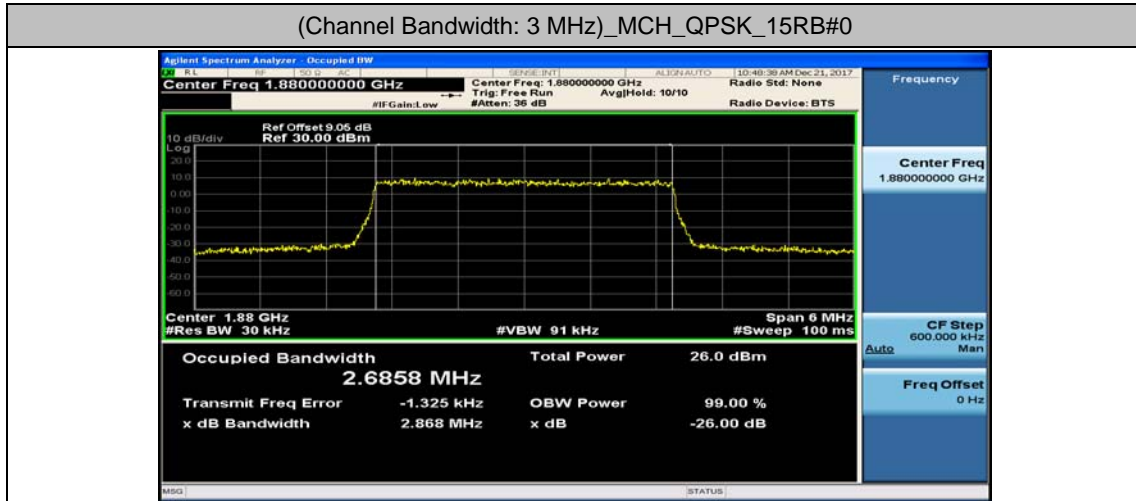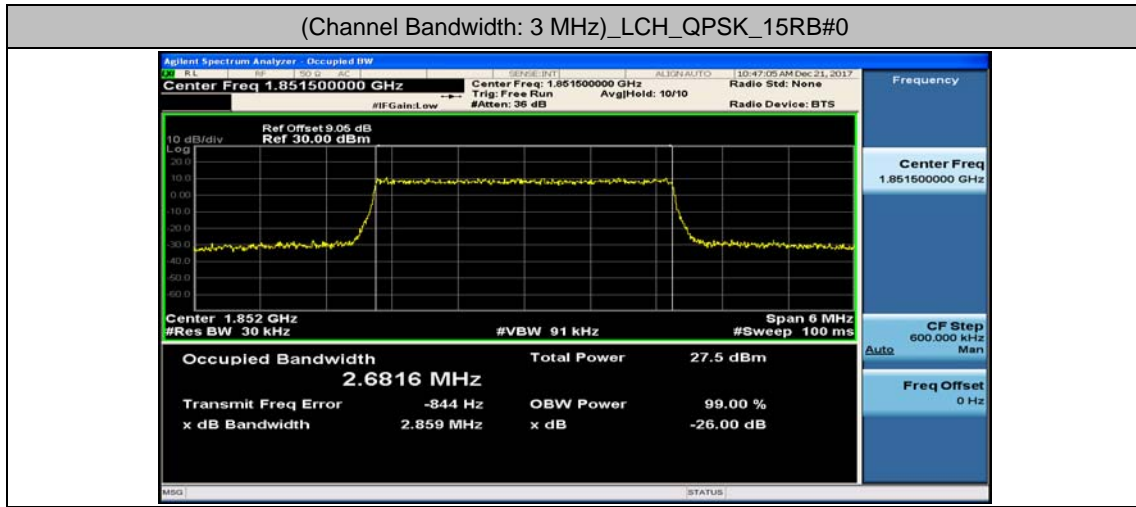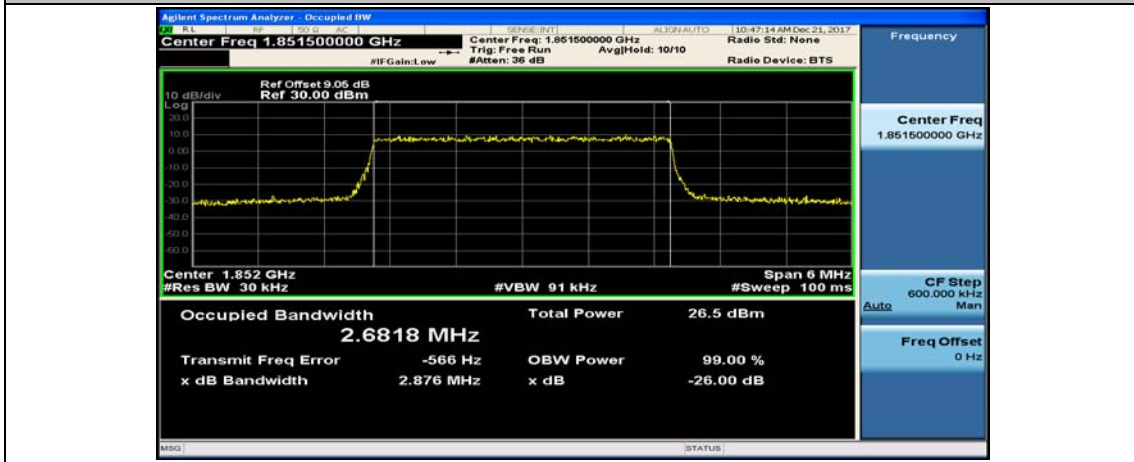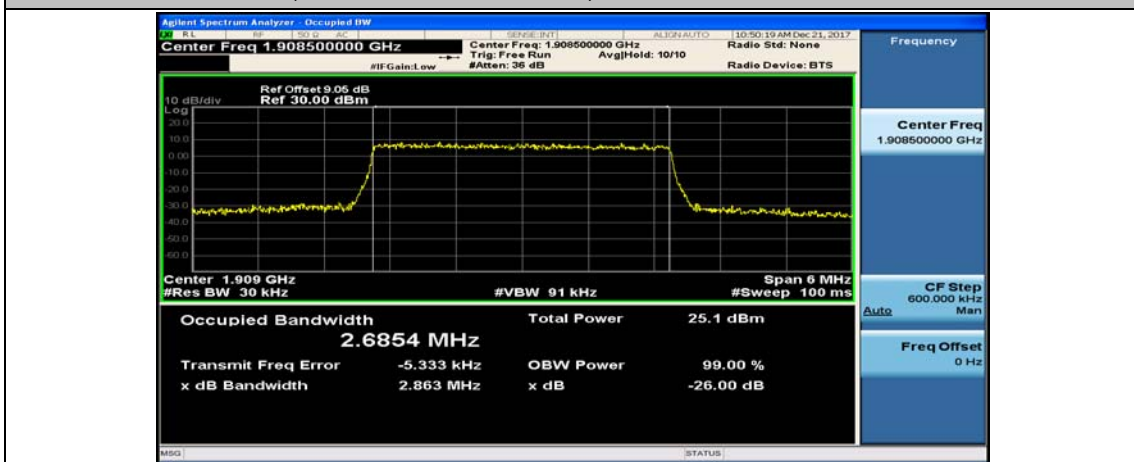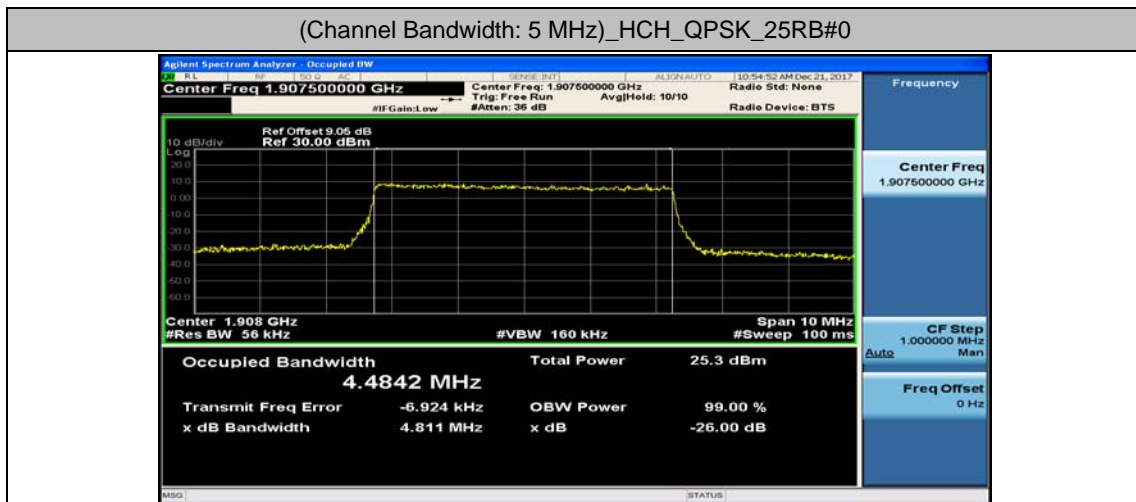## Channel Bandwidth: 1.4 MHz

Channel Bandwidth: 1.4 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth	26dB Bandwidth	Verdict
		Size	Offset	(MHz)	(MHz)	
QPSK	LCH	6	0	1.0760	1.233	PASS
	MCH	6	0	1.0761	1.207	PASS
	HCH	6	0	1.0780	1.210	PASS
16QAM	LCH	6	0	1.0821	1.237	PASS
	MCH	6	0	1.0785	1.217	PASS
	HCH	6	0	1.0783	1.217	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	2.6816	2.859	PASS
	MCH	15	0	2.6858	2.868	PASS
	HCH	15	0	2.6839	2.868	PASS
16QAM	LCH	15	0	2.6818	2.876	PASS
	MCH	15	0	2.6817	2.868	PASS
	HCH	15	0	2.6854	2.863	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	4.4750	4.820	PASS
	MCH	25	0	4.4787	4.816	PASS
	HCH	25	0	4.4842	4.811	PASS
16QAM	LCH	25	0	4.4721	4.831	PASS
	MCH	25	0	4.4849	4.790	PASS
	HCH	25	0	4.4832	4.808	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	8.9200	9.460	PASS
	MCH	50	0	8.9475	9.407	PASS
	HCH	50	0	8.9098	9.407	PASS
16QAM	LCH	50	0	8.9252	9.484	PASS
	MCH	50	0	8.9323	9.493	PASS
	HCH	50	0	8.9186	9.341	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	13.403	14.04	PASS
	MCH	75	0	13.386	14.01	PASS
	HCH	75	0	13.364	14.01	PASS
16QAM	LCH	75	0	13.399	14.09	PASS
	MCH	75	0	13.391	14.01	PASS
	HCH	75	0	13.359	14.00	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	17.847	18.59	PASS
	MCH	100	0	17.845	18.60	PASS
	HCH	100	0	17.797	18.55	PASS
16QAM	LCH	100	0	17.846	18.56	PASS
	MCH	100	0	17.847	18.60	PASS
	HCH	100	0	17.803	18.60	PASS

Test Graphs

Channel Bandwidth: 1.4 MHz

(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_6RB#0

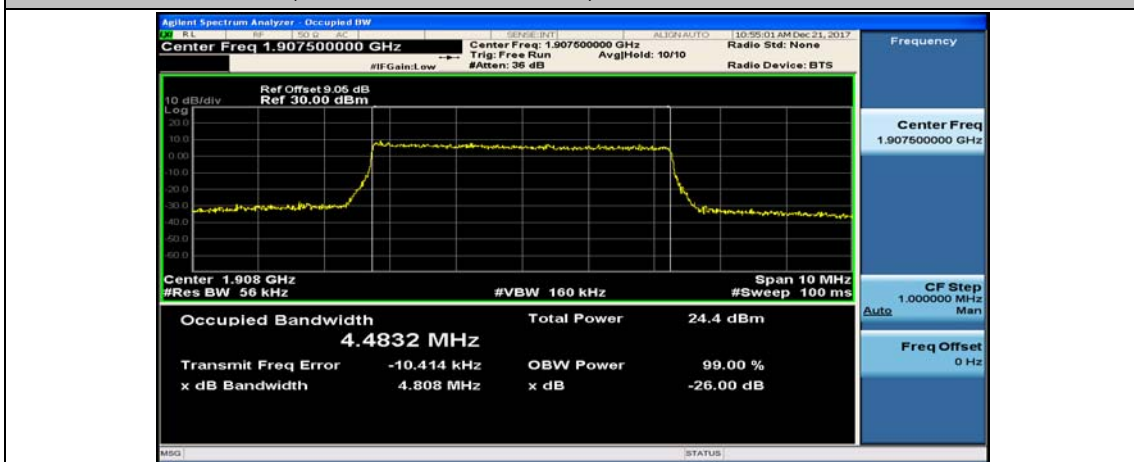| (Channel Bandwidth: 1.4 MHz)_MCH_QPSK_6RB#0 |
|---|
| |

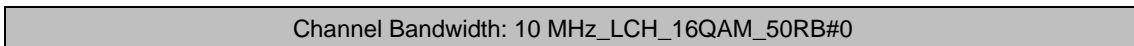| (Channel Bandwidth: 1.4 MHz)_HCH_QPSK_6RB#0 |
|---|
| |
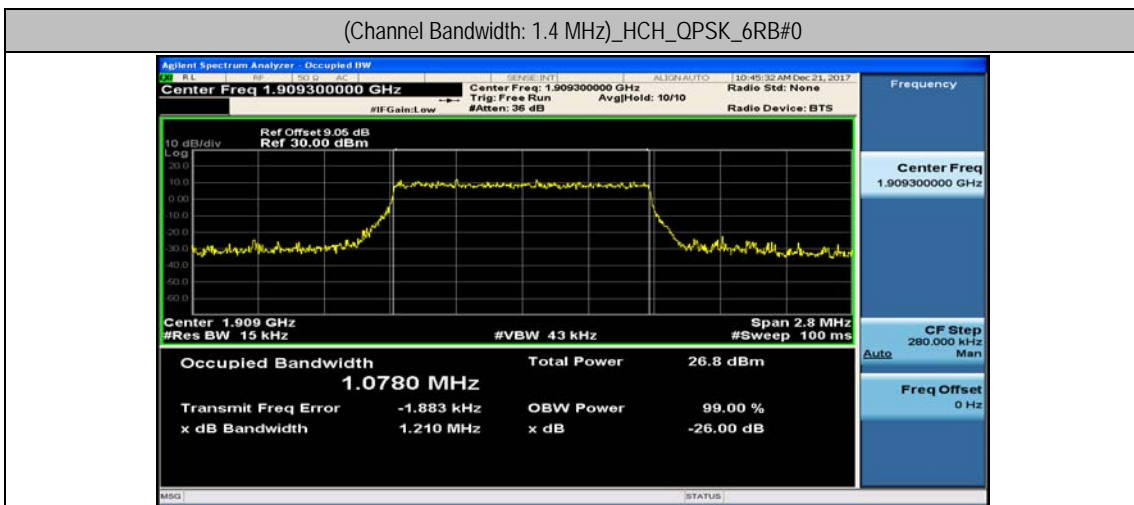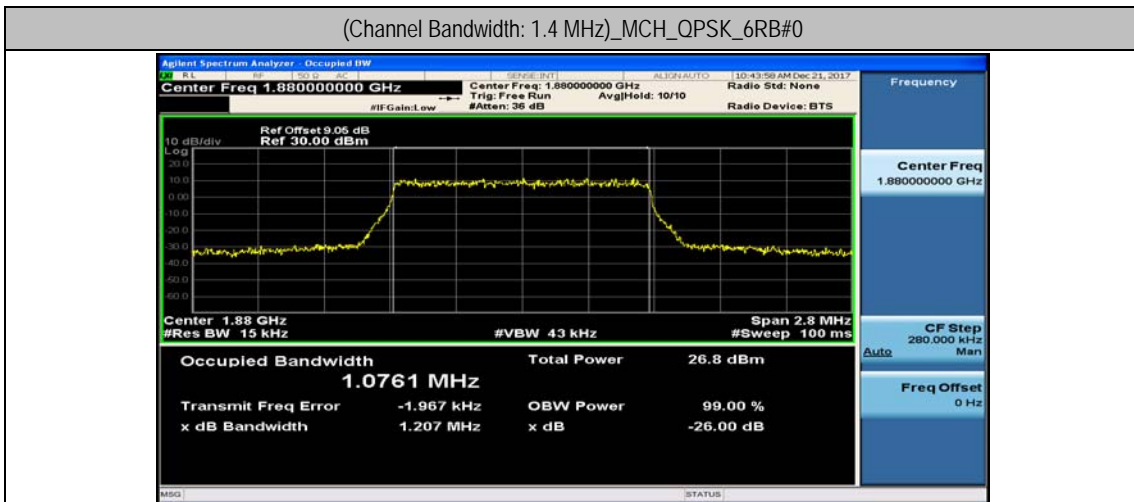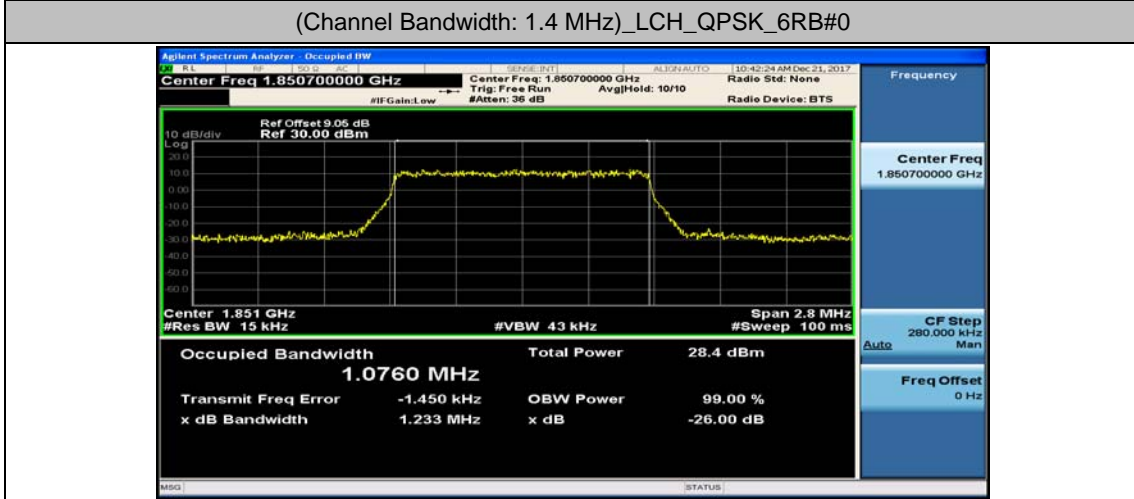
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_6RB#0
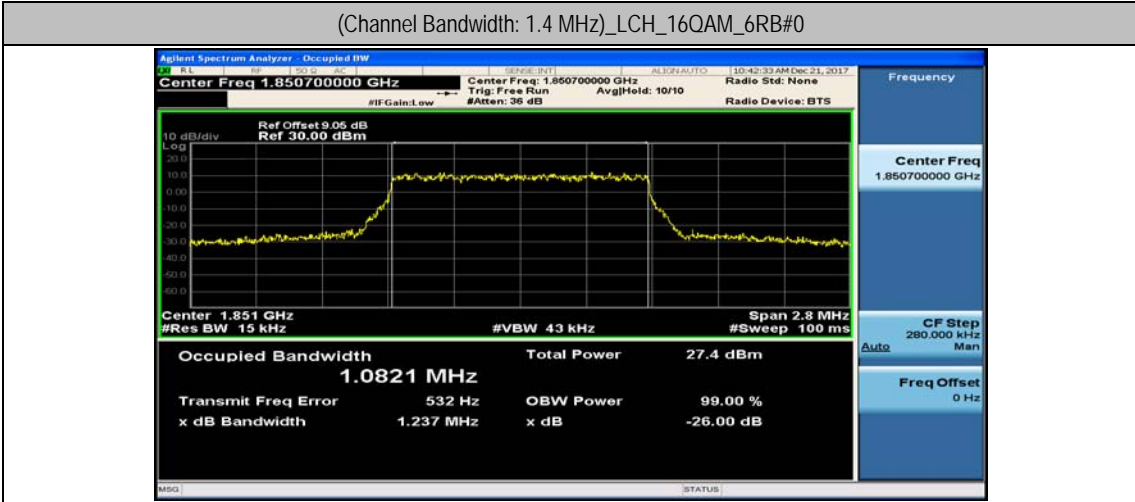
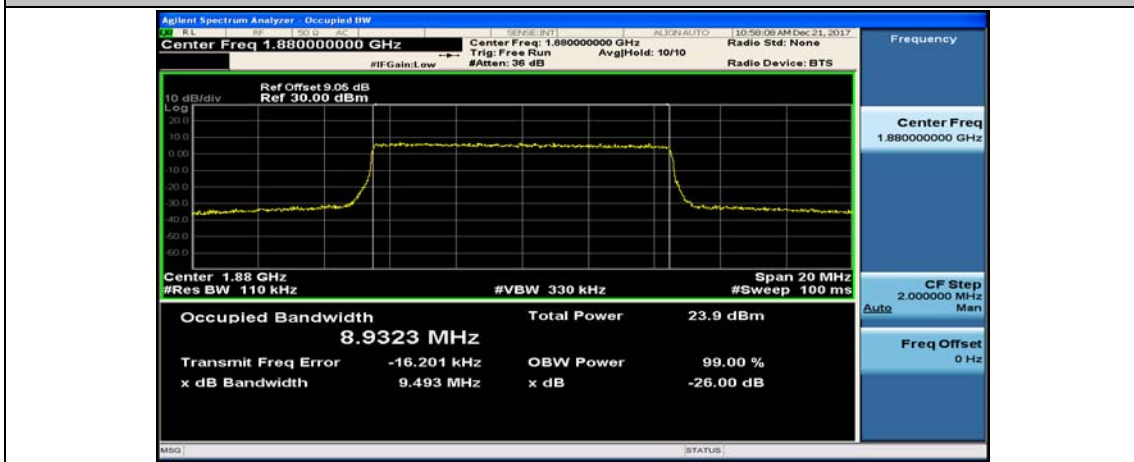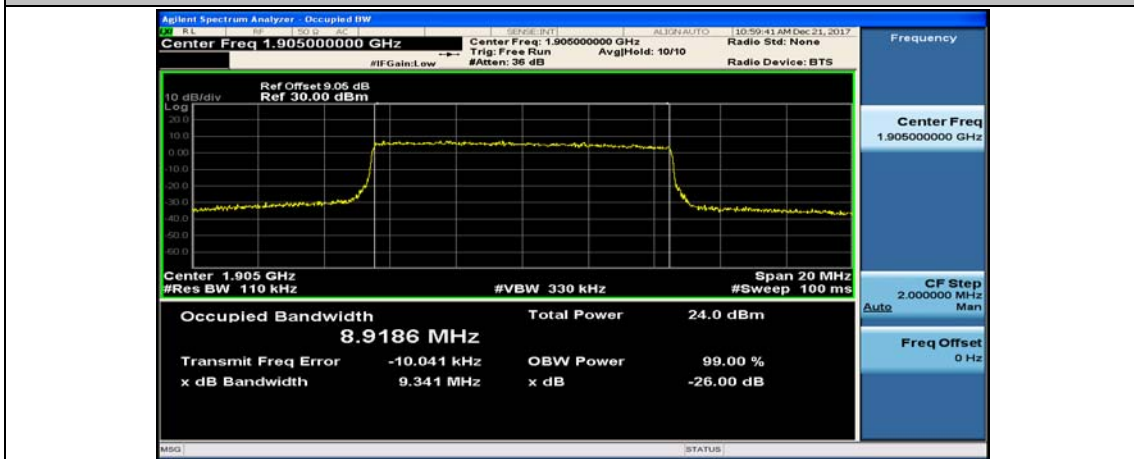| (Channel Bandwidth: 1.4 MHz)_MCH_16QAM_6RB#0 |
|---|
| |
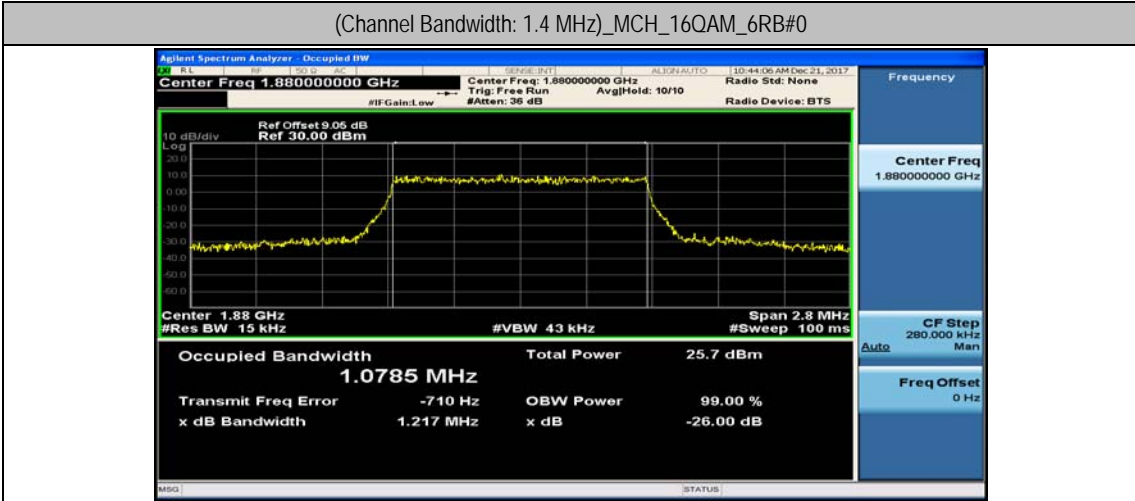
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_6RB#0

Channel Bandwidth: 3 MHz

(Channel Bandwidth: 3 MHz)_LCH_QPSK_15RB#0

(Channel Bandwidth: 3 MHz)_MCH_QPSK_15RB#0

(Channel Bandwidth: 3 MHz)_HCH_QPSK_15RB#0

(Channel Bandwidth: 3 MHz)_LCH_16QAM_15RB#0

(Channel Bandwidth: 3 MHz)_MCH_16QAM_15RB#0
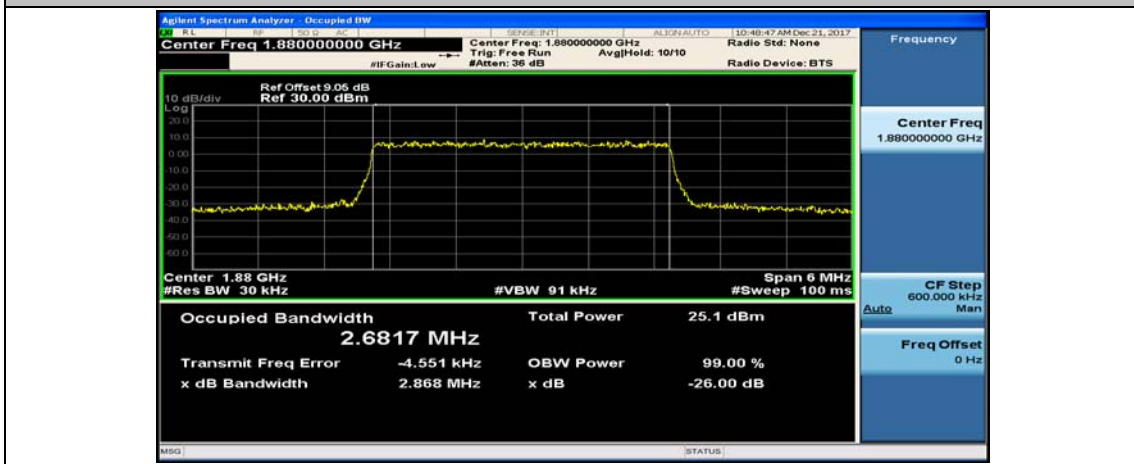
(Channel Bandwidth: 3 MHz)_HCH_16QAM_15RB#0

Channel Bandwidth: 5 MHz

(Channel Bandwidth: 5 MHz)_LCH_QPSK_25RB#0
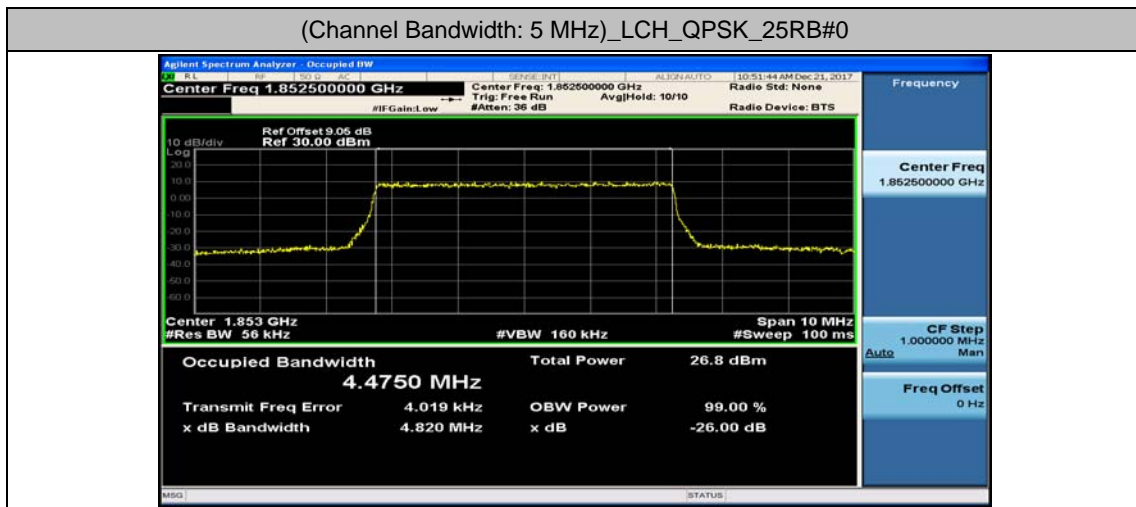
(Channel Bandwidth: 5 MHz)_MCH_QPSK_25RB#0
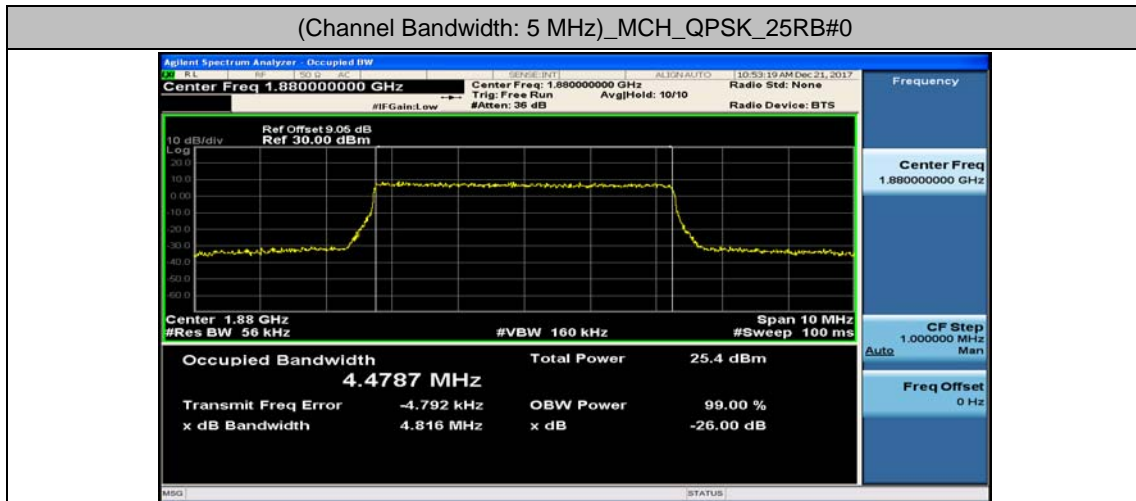
(Channel Bandwidth: 5 MHz)_HCH_QPSK_25RB#0

(Channel Bandwidth: 5 MHz)_LCH_16QAM_25RB#0
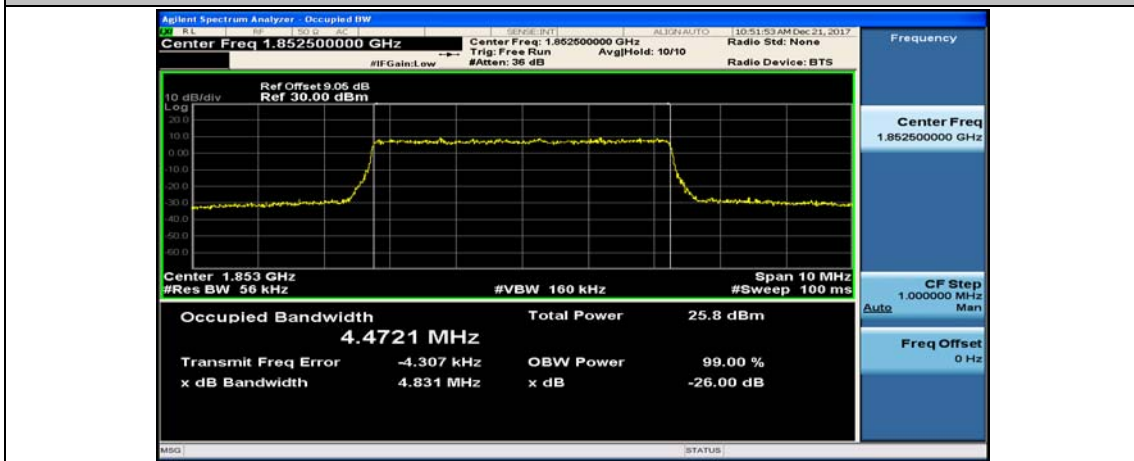
(Channel Bandwidth: 5 MHz)_MCH_16QAM_25RB#0
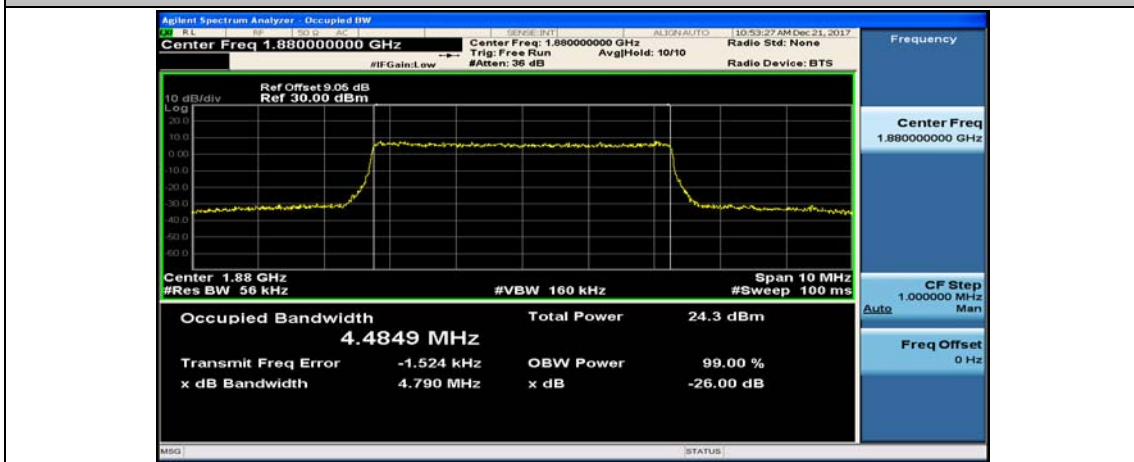
(Channel Bandwidth: 5 MHz)_HCH_16QAM_25RB#0

Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz_LCH_QPSK_50RB#0

Channel Bandwidth: 10 MHz_MCH_QPSK_50RB#0

Channel Bandwidth: 10 MHz_HCH_QPSK_50RB#0

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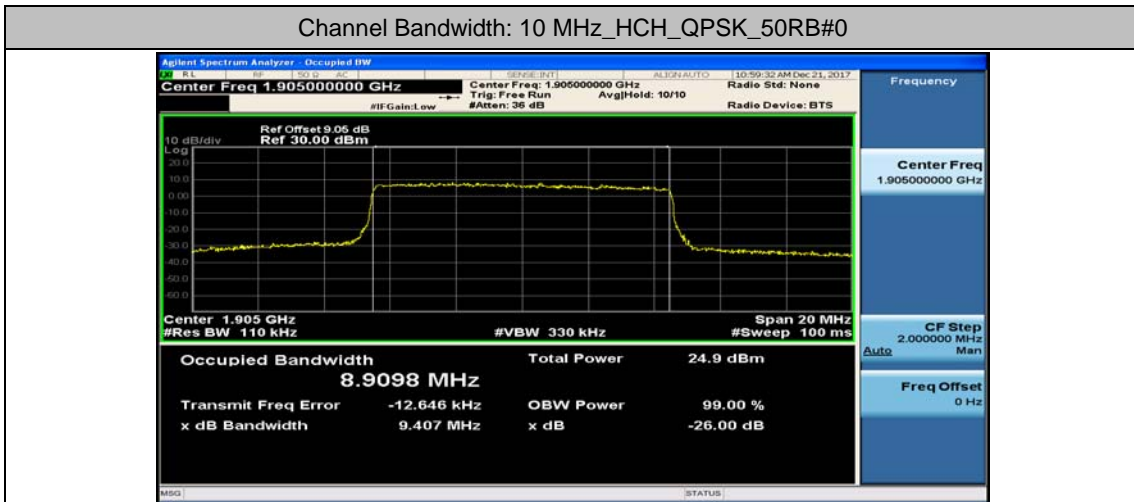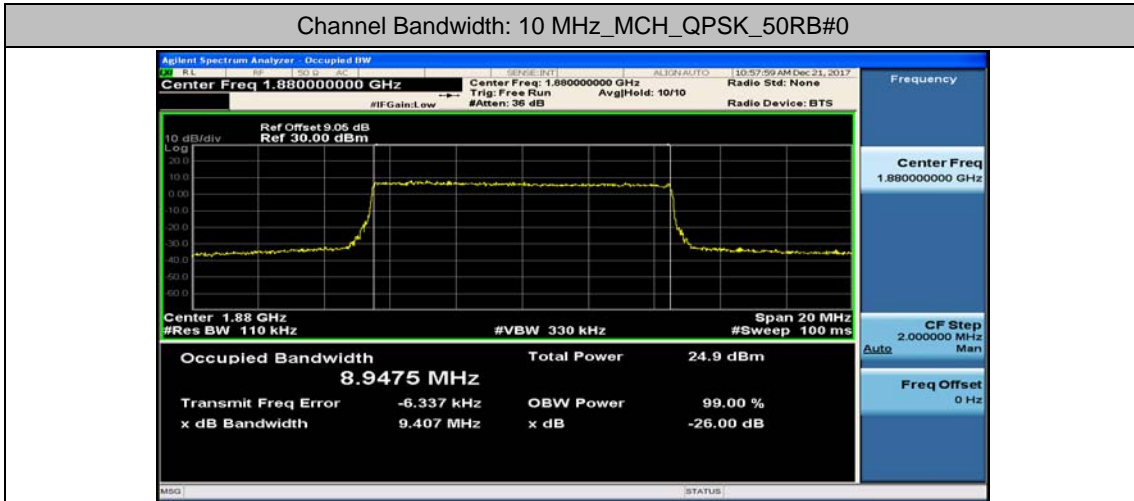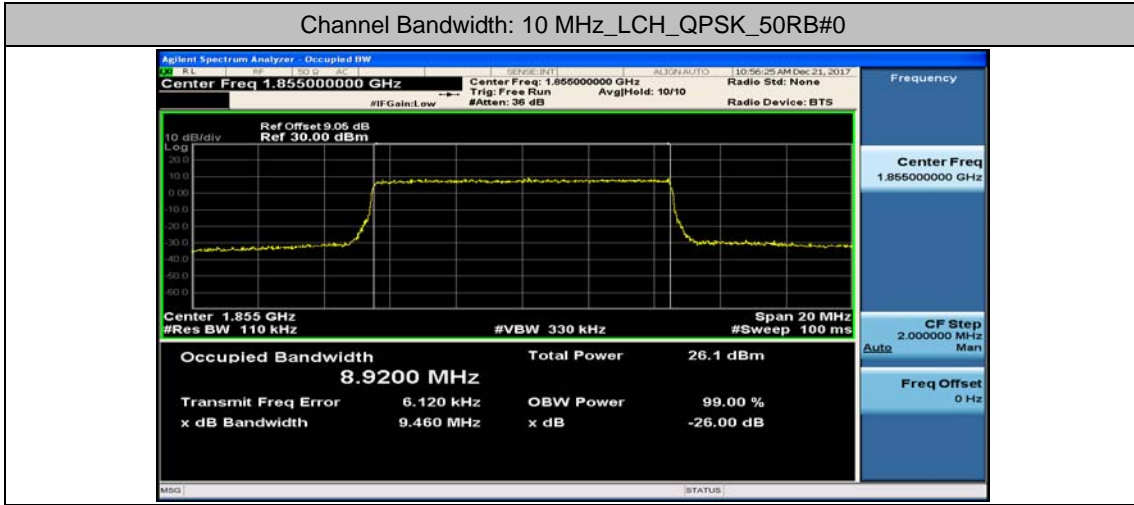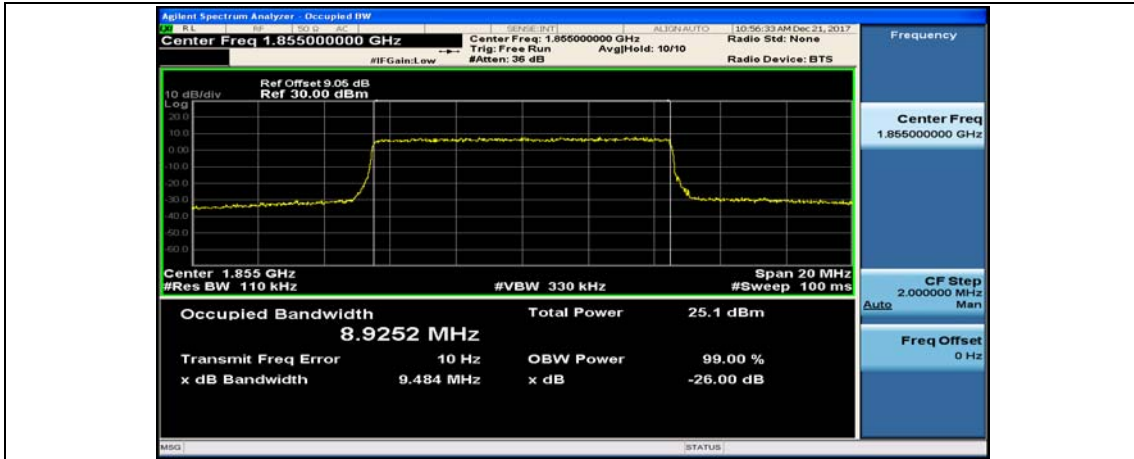
Channel Bandwidth: 10 MHz_MCH_16QAM_50RB#0

Channel Bandwidth: 10 MHz_HCH_16QAM_50RB#0

Channel Bandwidth: 15 MHz

(Channel Bandwidth:15 MHz)_LCH_QPSK_75RB#0

(Channel Bandwidth:15 MHz)_MCH_QPSK_75RB#0

(Channel Bandwidth:15 MHz)_HCH_QPSK_75RB#0
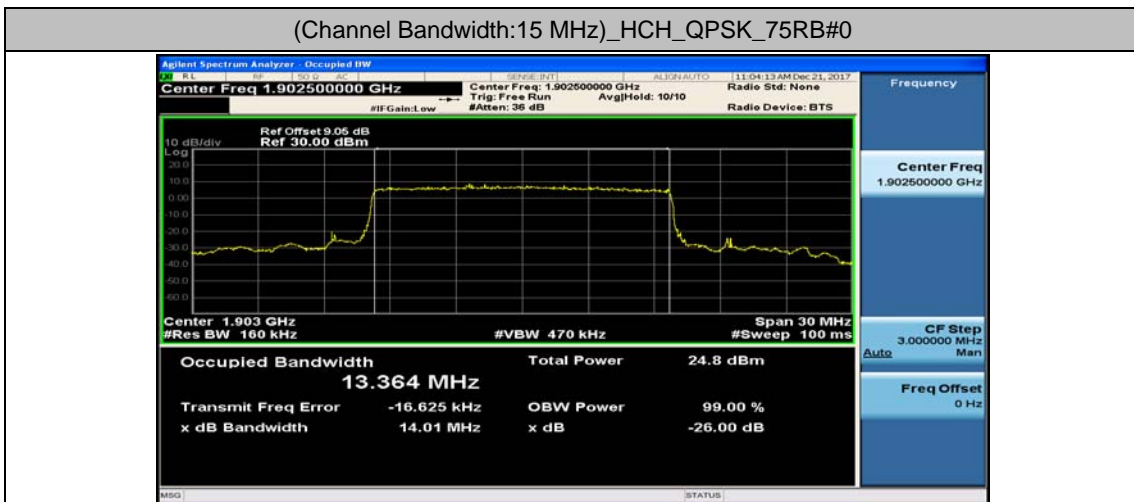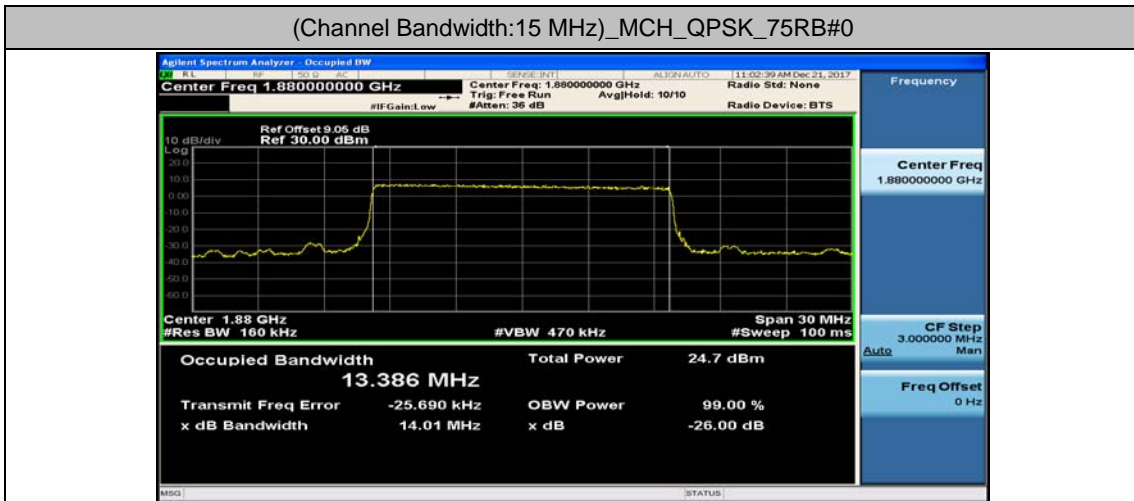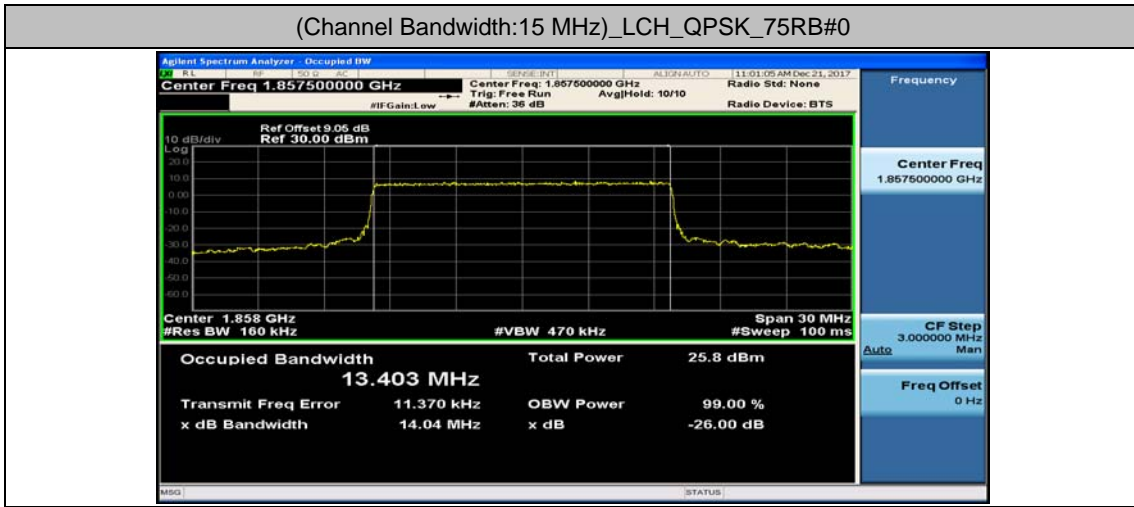
(Channel Bandwidth:15 MHz)_LCH_16QAM_75RB#0
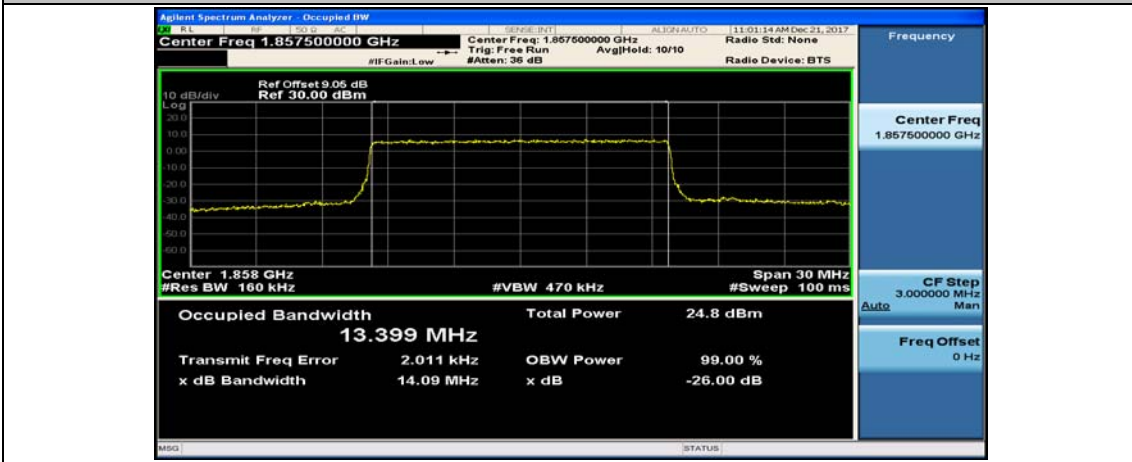
(Channel Bandwidth:15 MHz)_MCH_16QAM_75RB#0
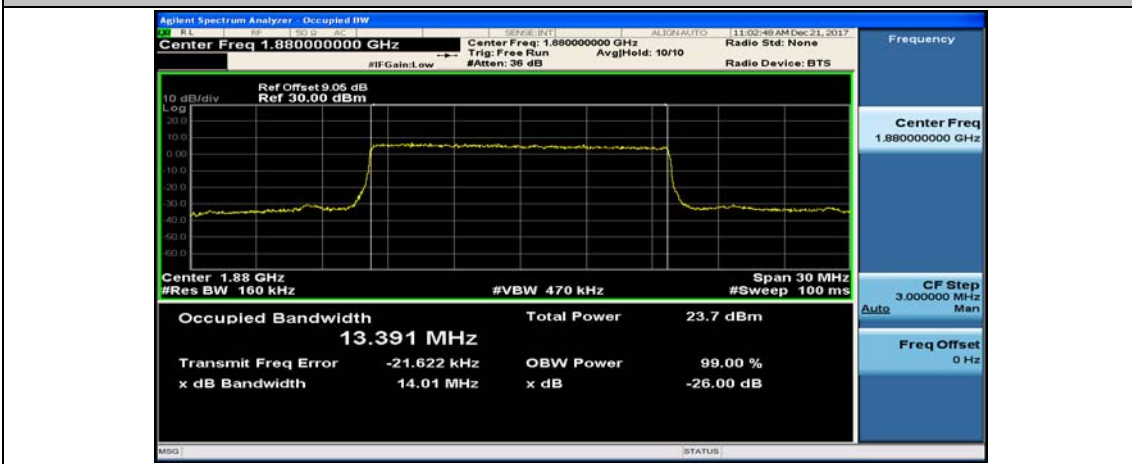
(Channel Bandwidth:15 MHz)_HCH_16QAM_75RB#0
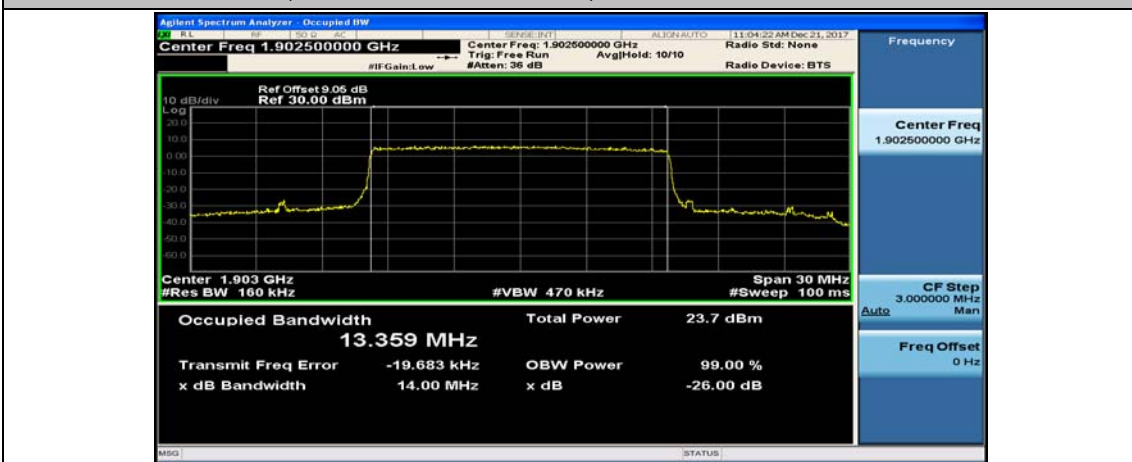
Channel Bandwidth: 20 MHz

(Channel Bandwidth:20 MHz)_LCH_QPSK_100RB#0
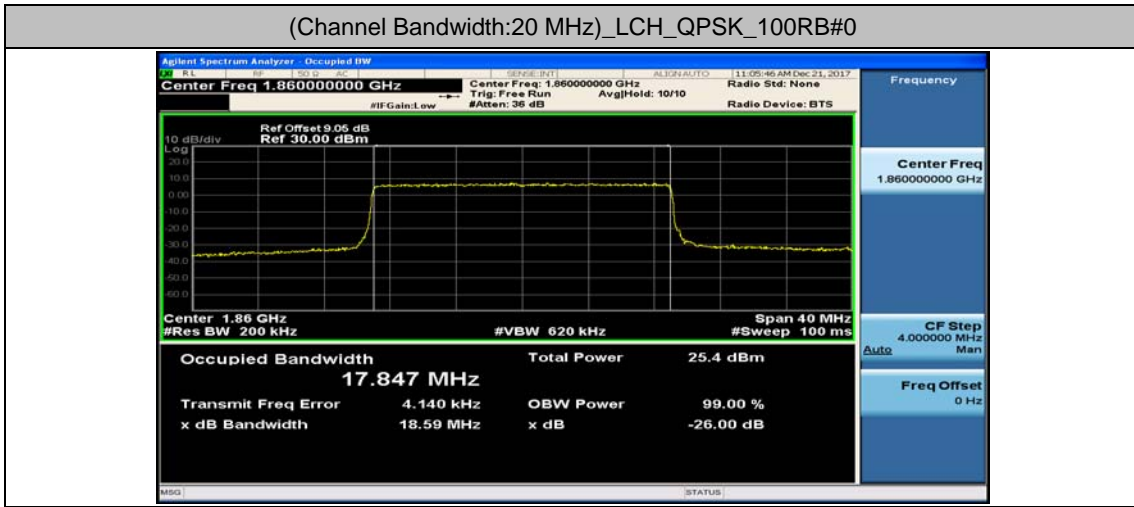
(Channel Bandwidth:20 MHz)_MCH_QPSK_100RB#0
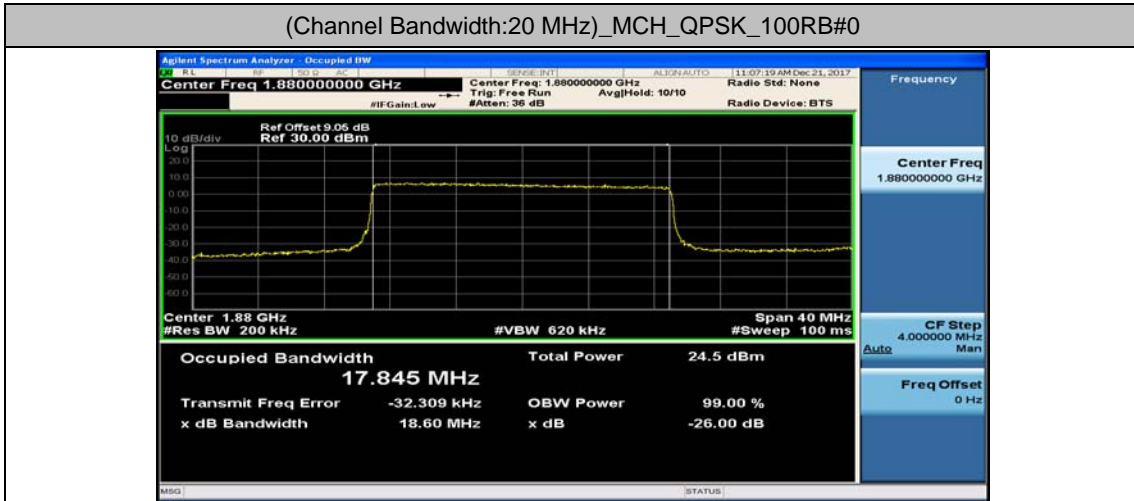
(Channel Bandwidth:20 MHz)_HCH_QPSK_100RB#0
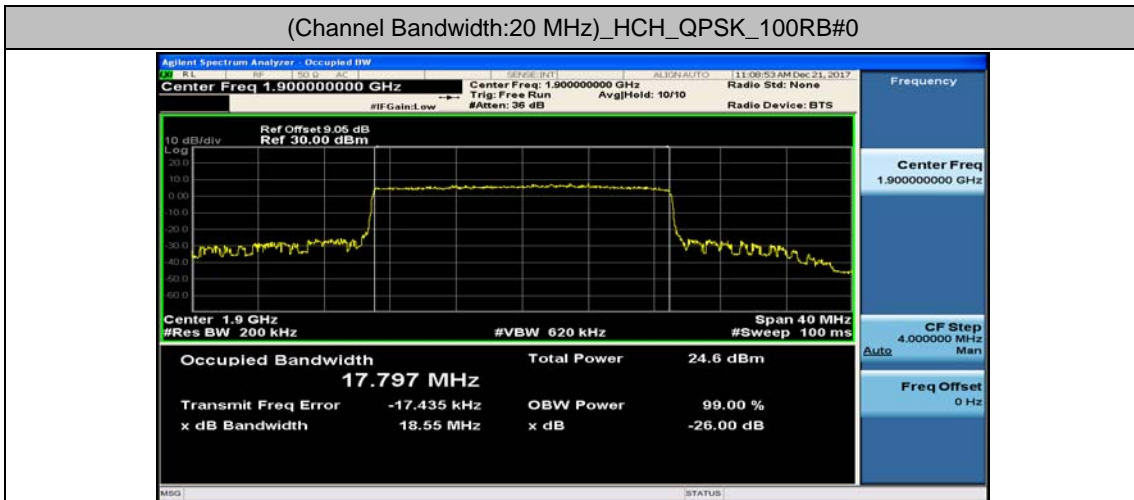
(Channel Bandwidth:20 MHz)_LCH_16QAM_100RB#0
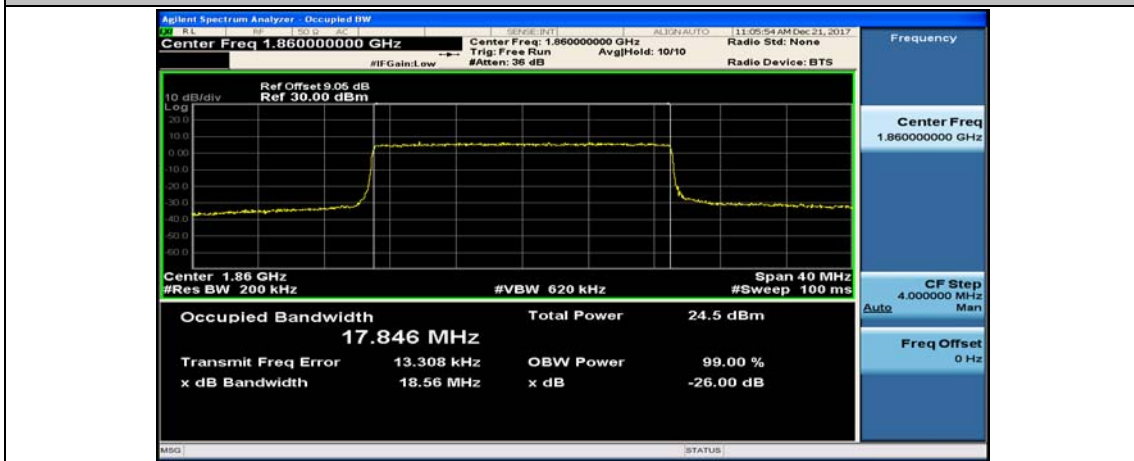
(Channel Bandwidth:20 MHz)_MCH_16QAM_100RB#0
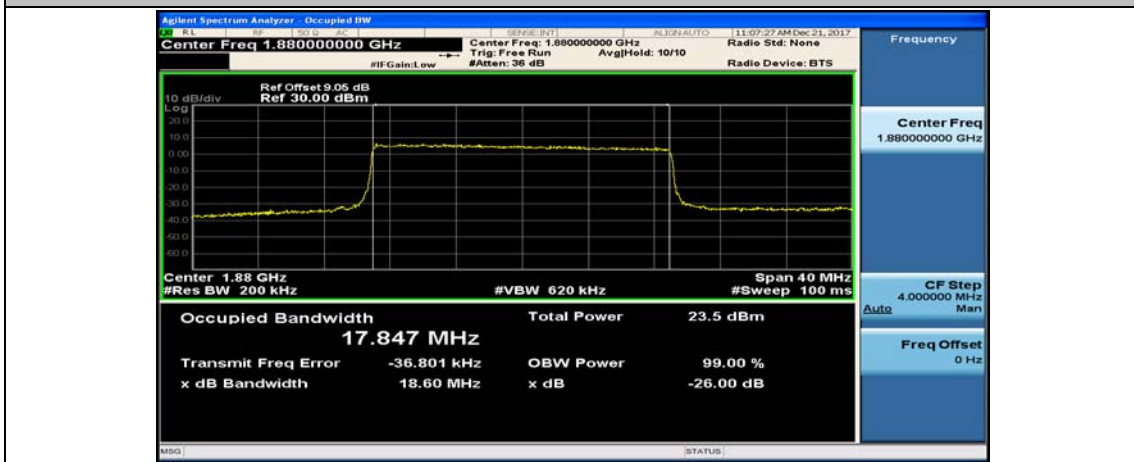
(Channel Bandwidth:20 MHz)_HCH_16QAM_100RB#0
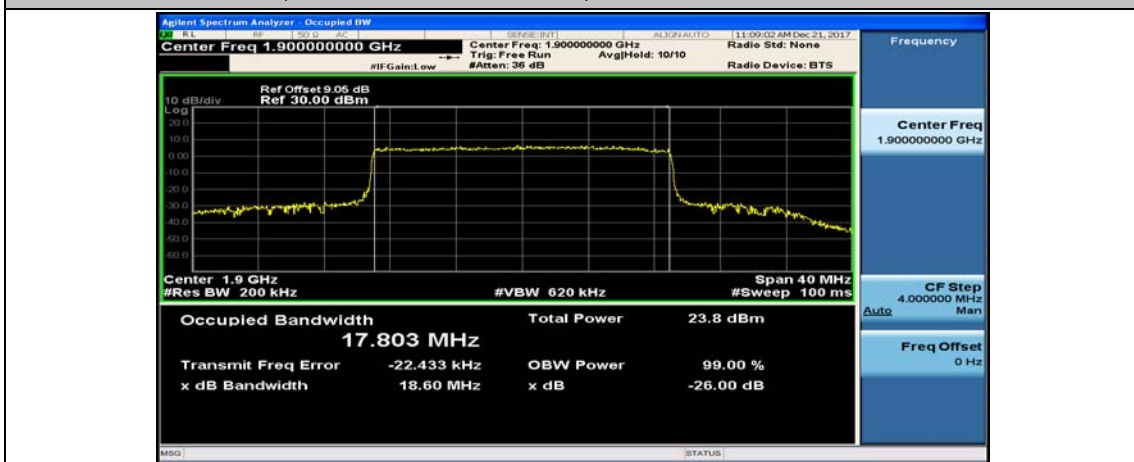
Appendix D: Band Edge

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
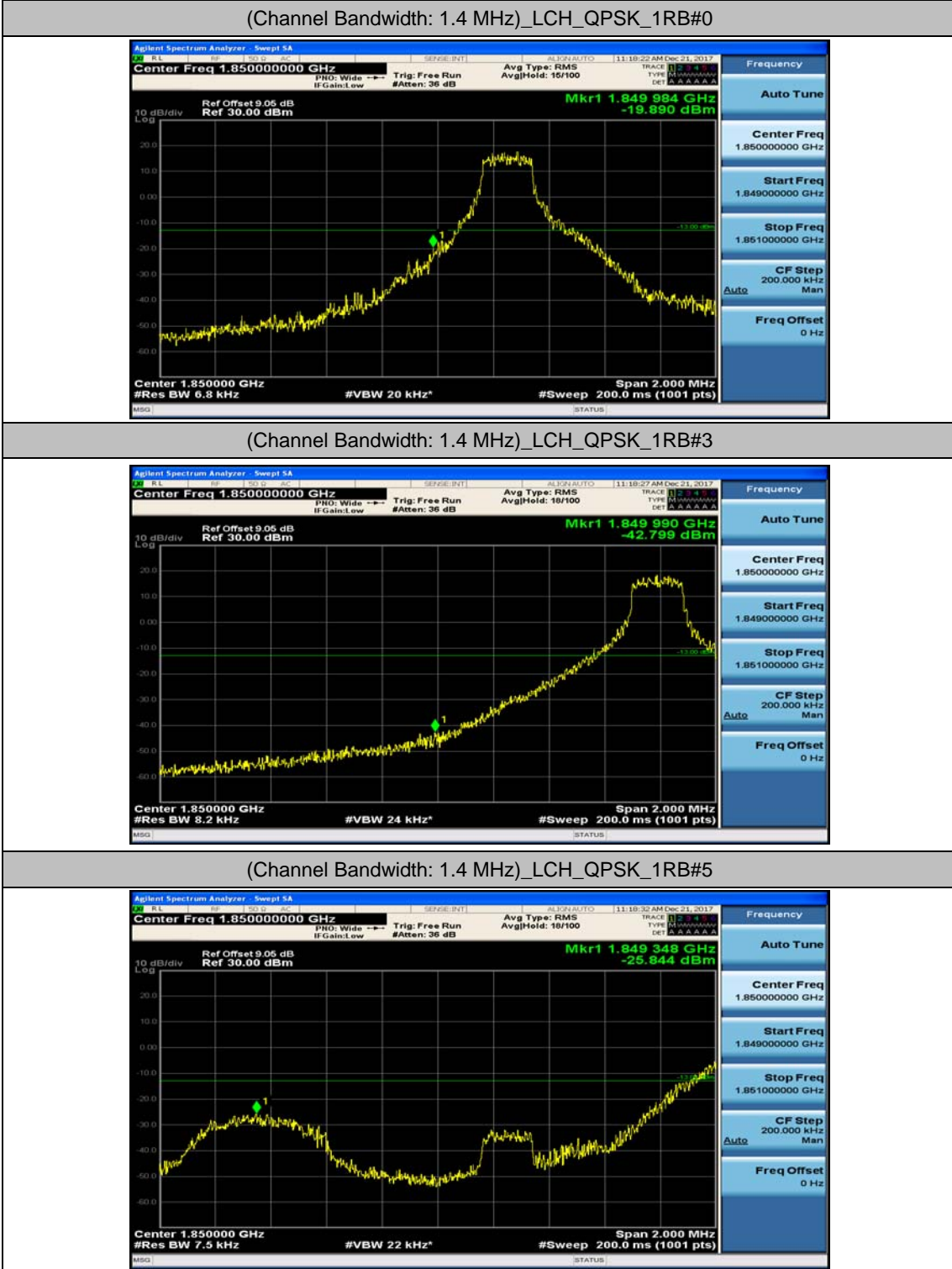
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_3RB#0
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_3RB#2
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_3RB#3
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_6RB#0

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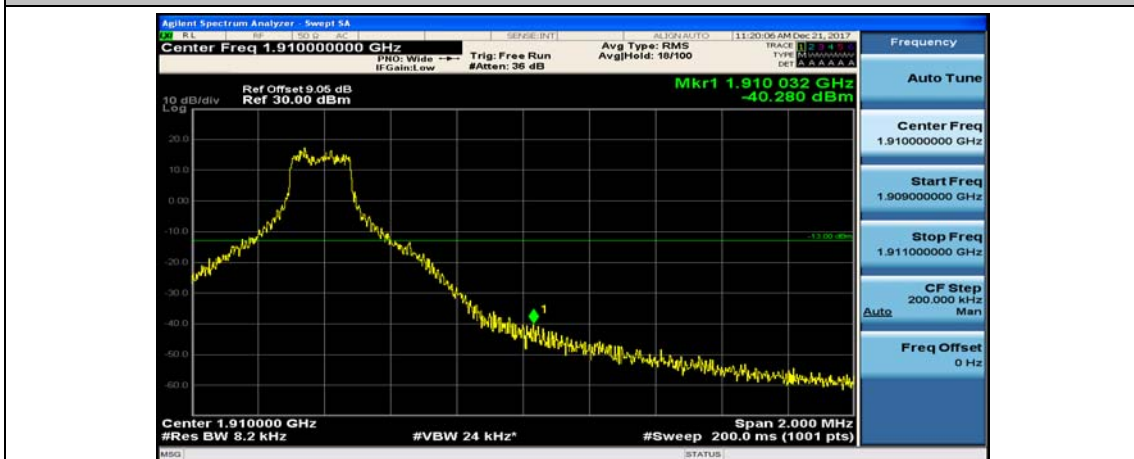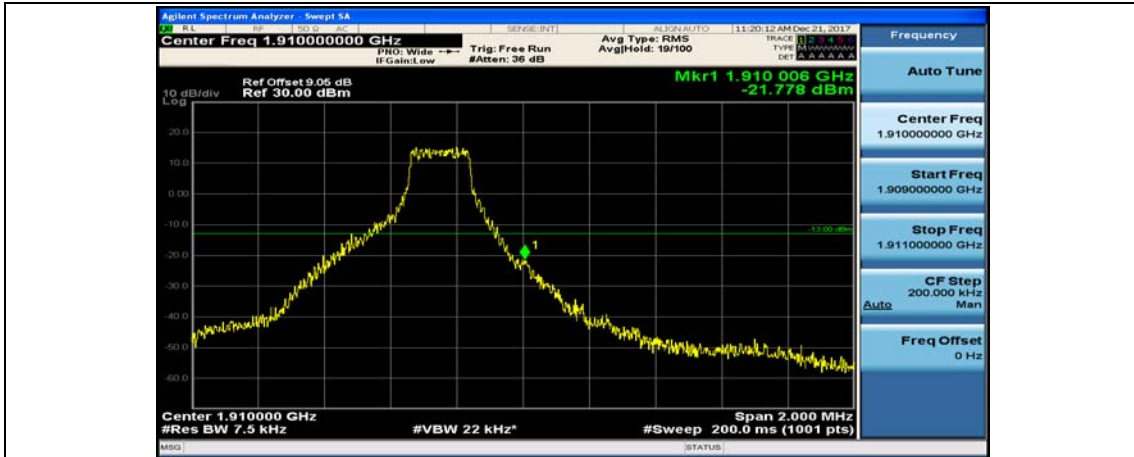
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_3RB#0

(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_3RB#2
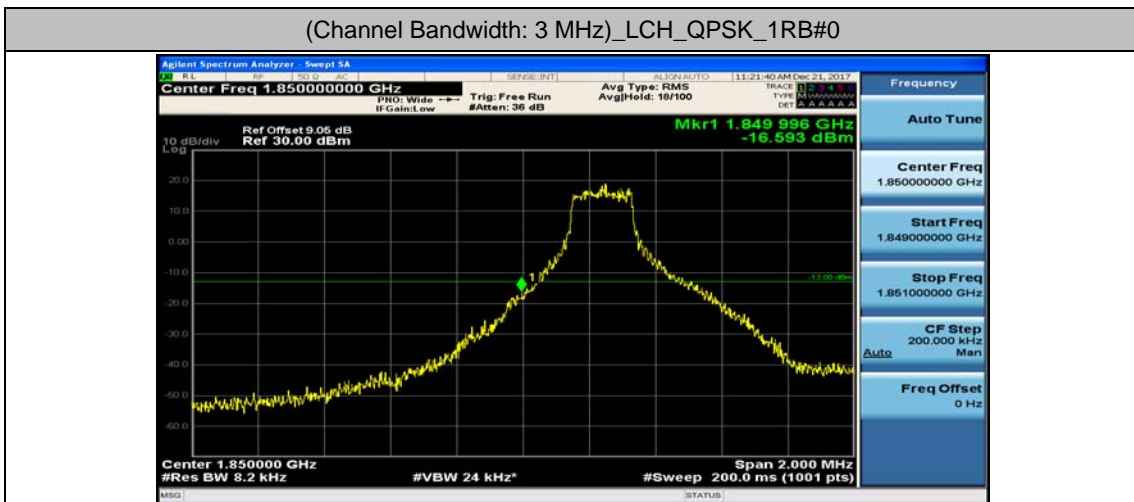

(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_3RB#3
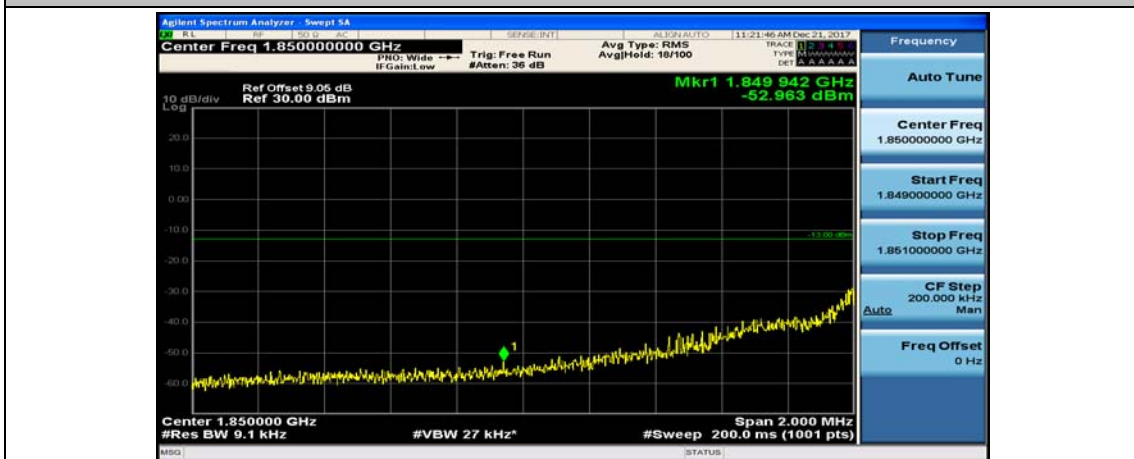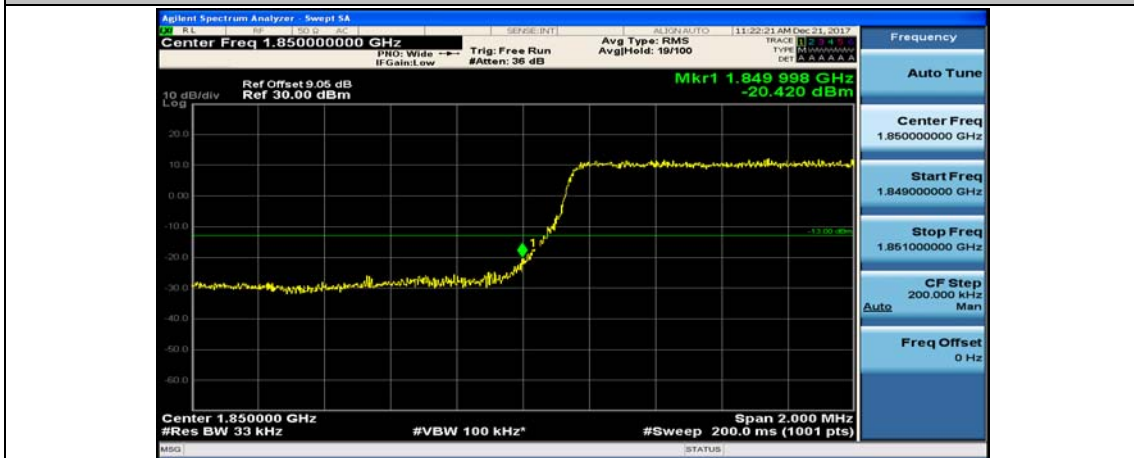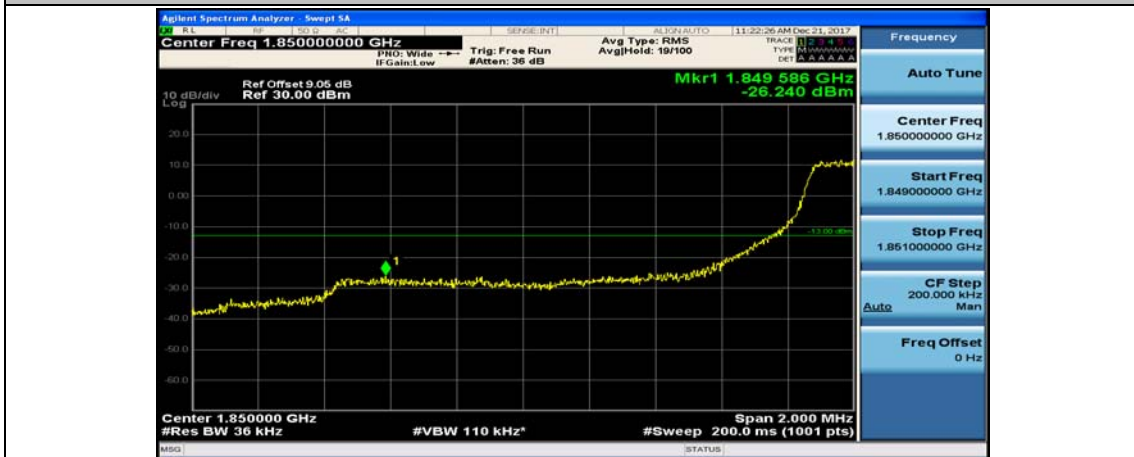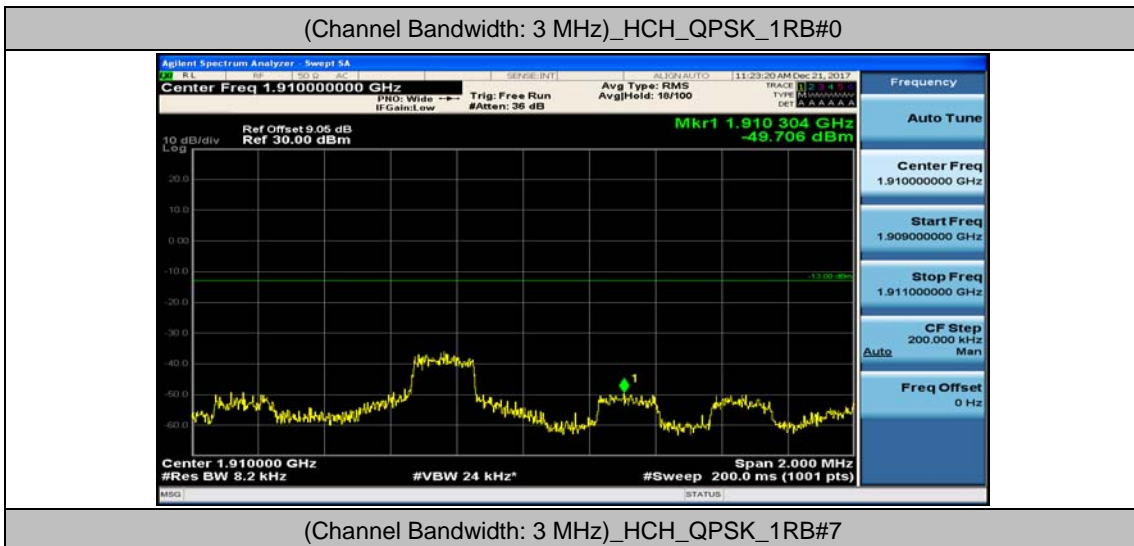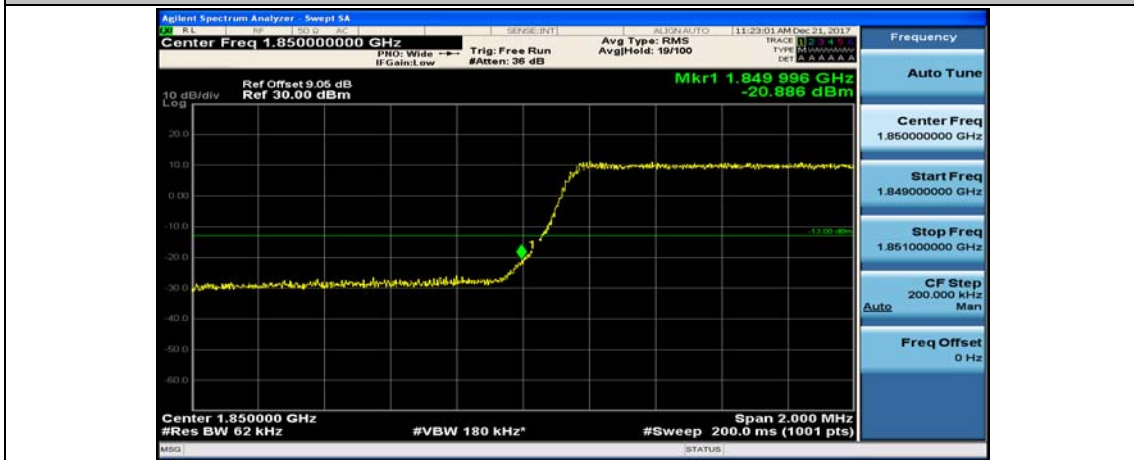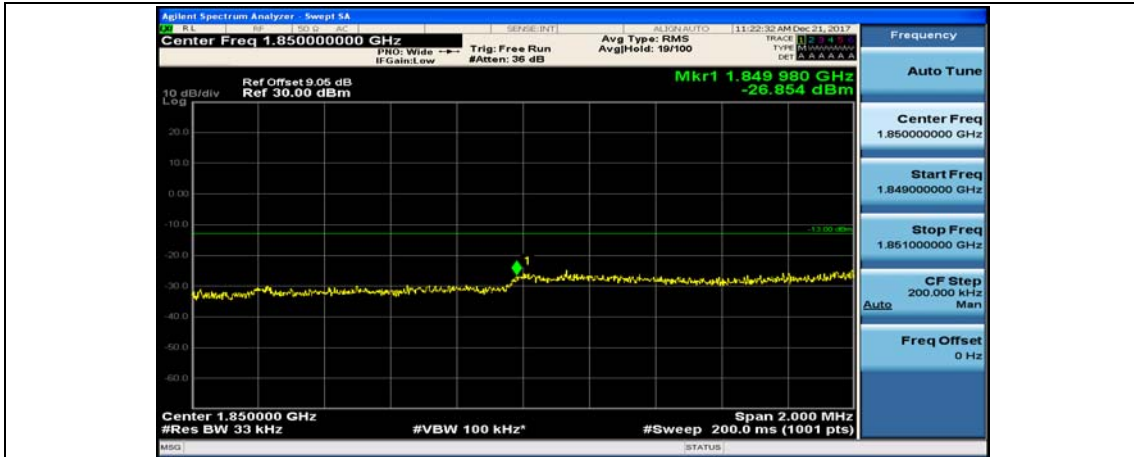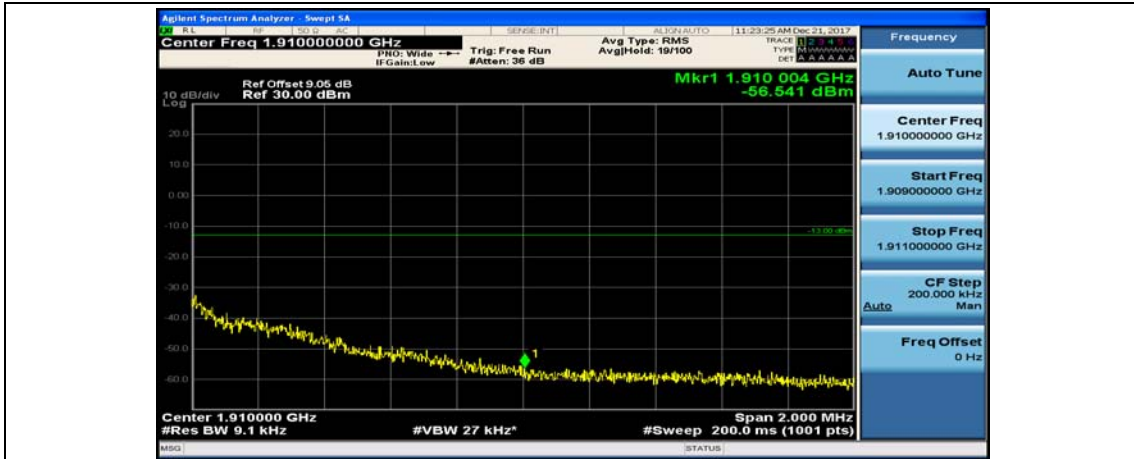
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_6RB#0

(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#0
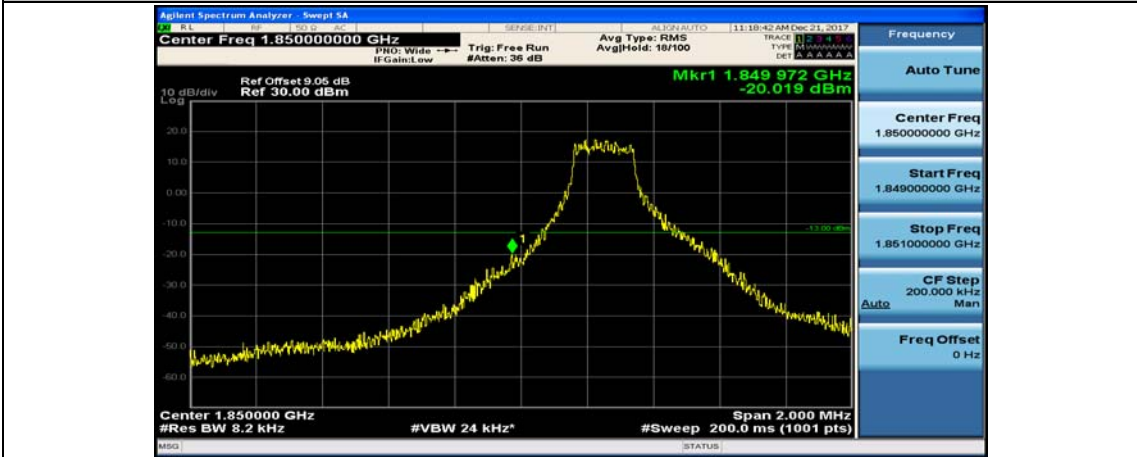
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#3
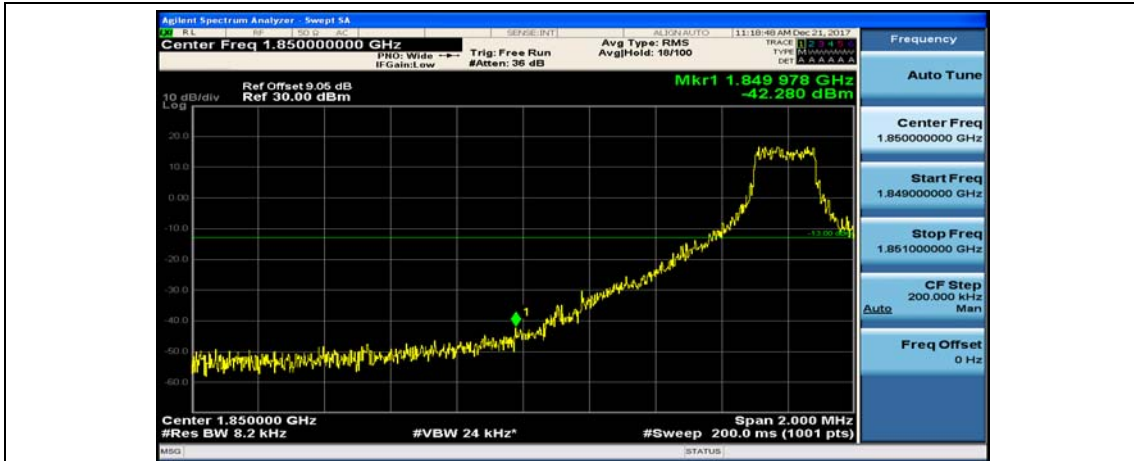
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#5

(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_3RB#0

(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_3RB#2

(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_3RB#3

(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_6RB#0
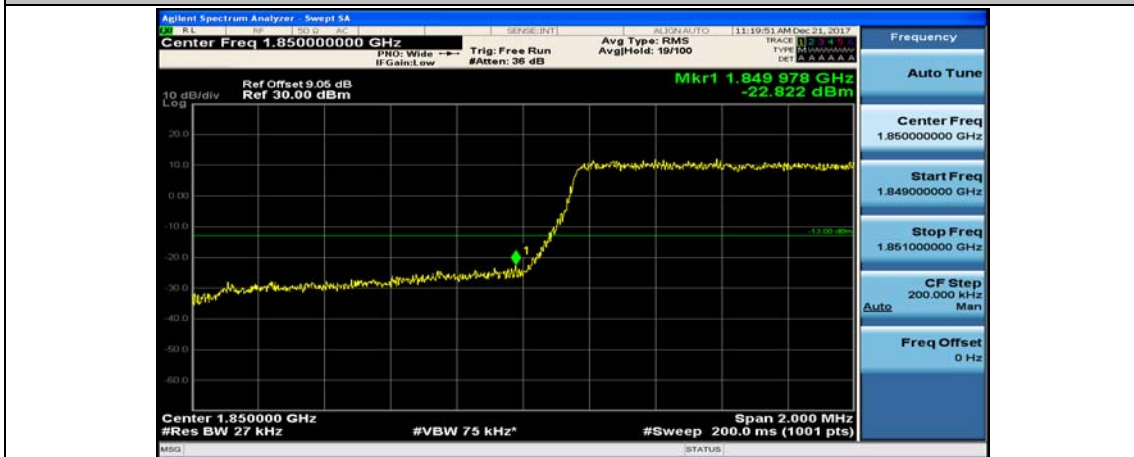
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#0
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#3
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#5
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_3RB#0
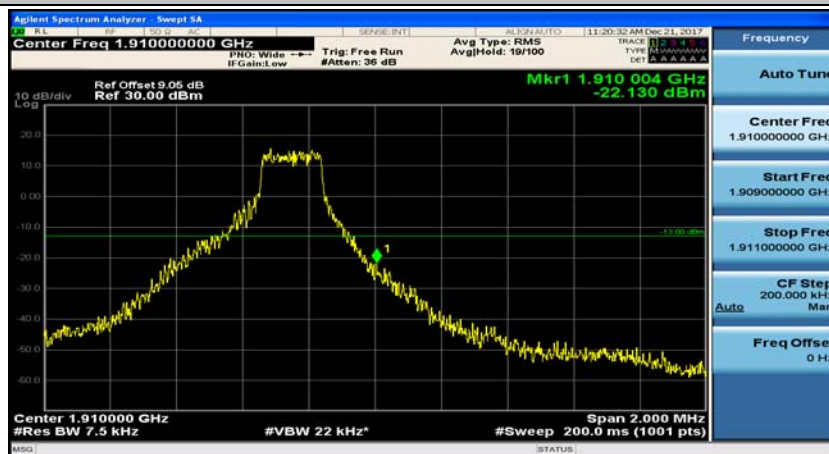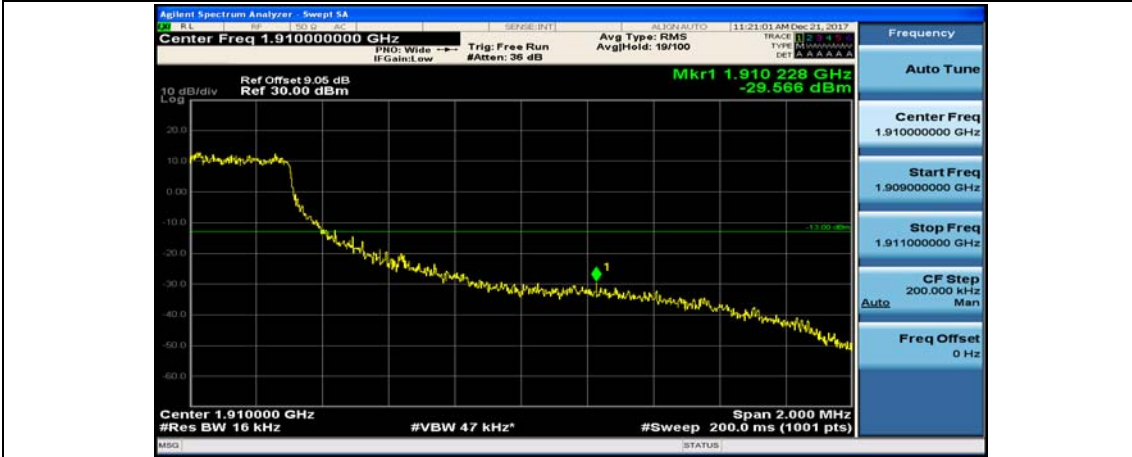
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_3RB#2

(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_3RB#3

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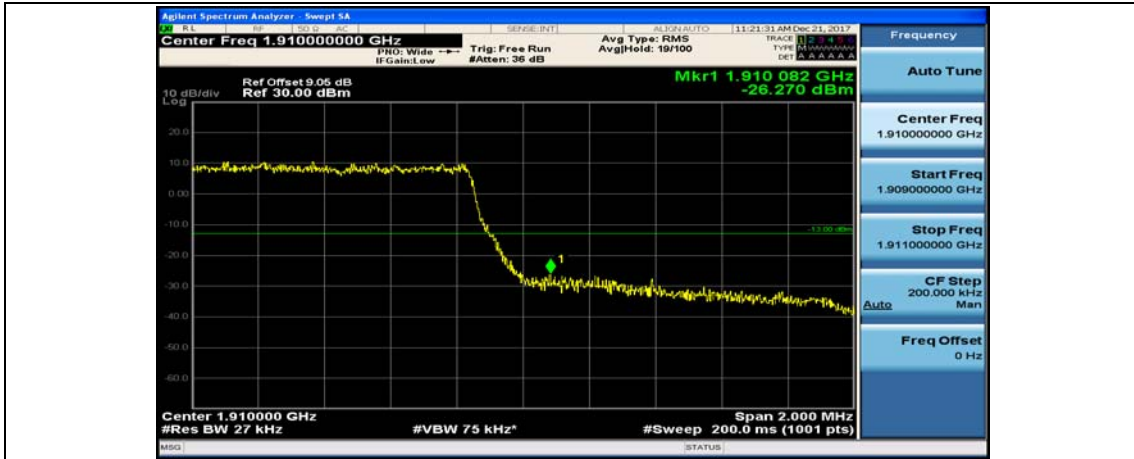
Channel Bandwidth: 3 MHz

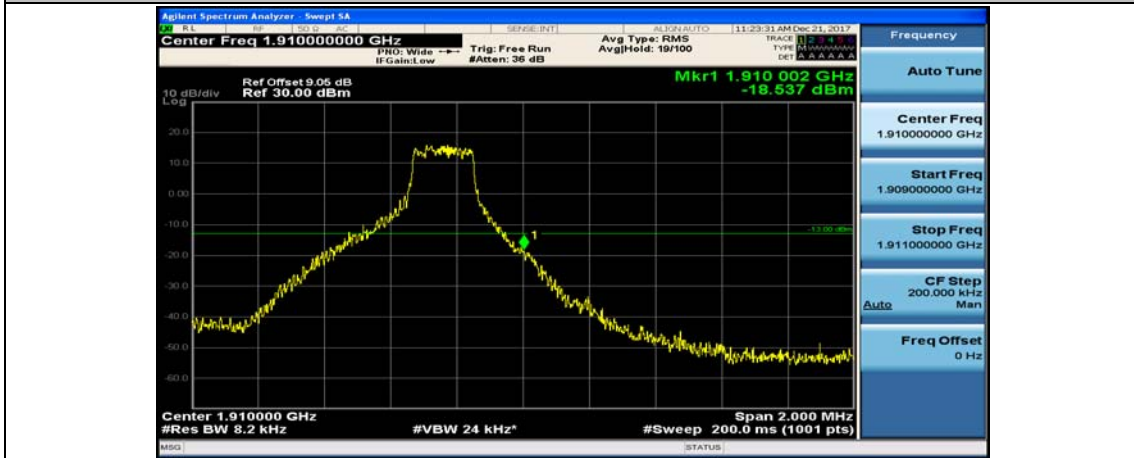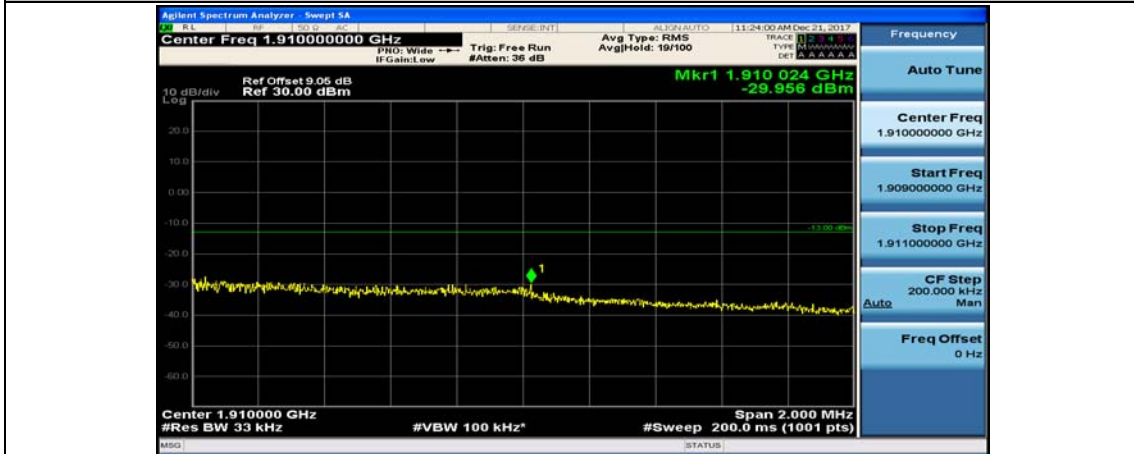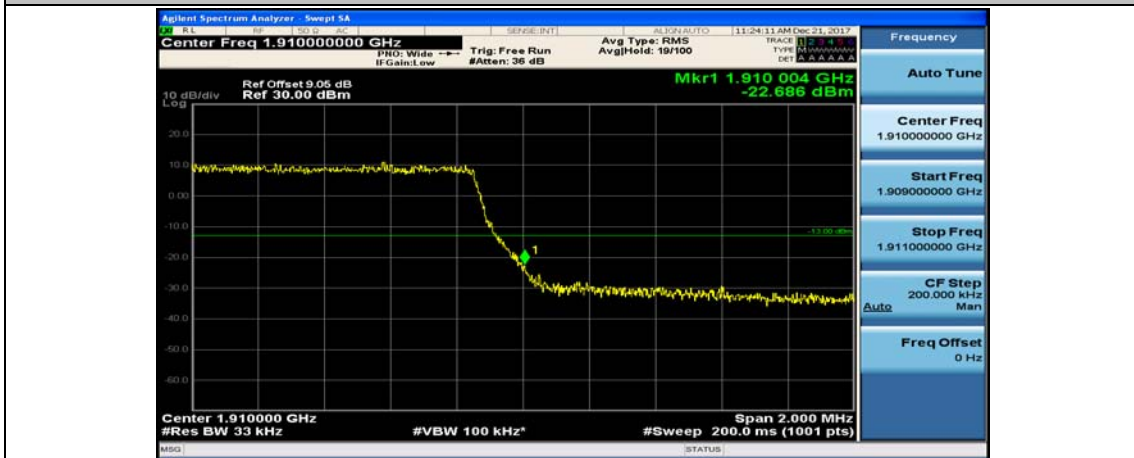| (Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#0 |
|---|
| |
| (Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#7 |
| |
| (Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#14 |

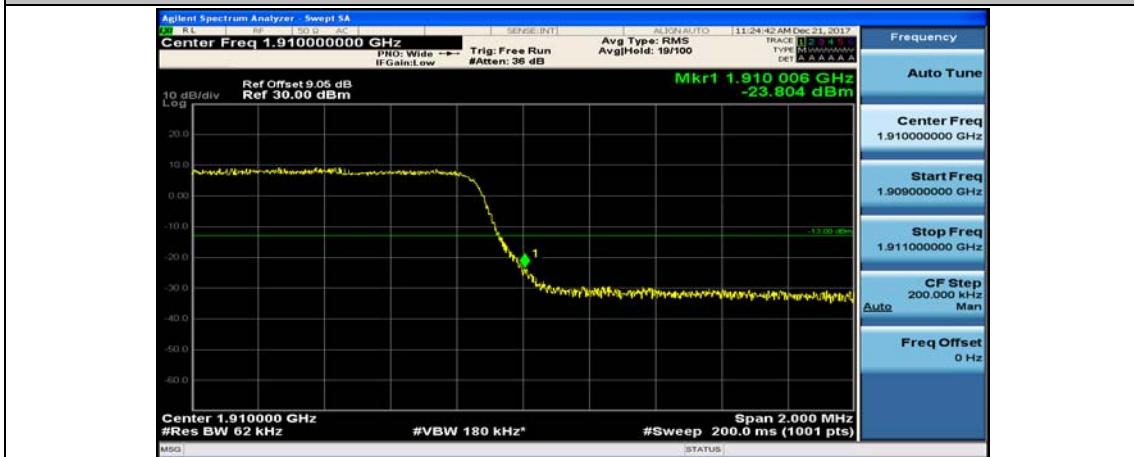(Channel Bandwidth: 3 MHz)_LCH_QPSK_8RB#0
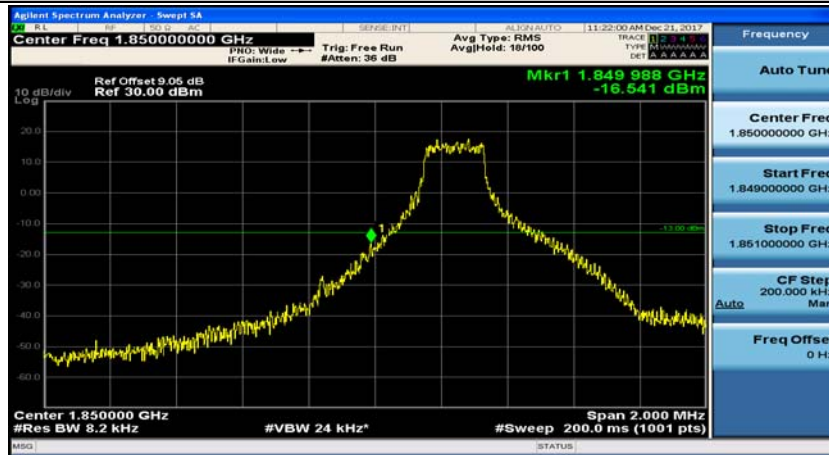

(Channel Bandwidth: 3 MHz)_LCH_QPSK_8RB#4
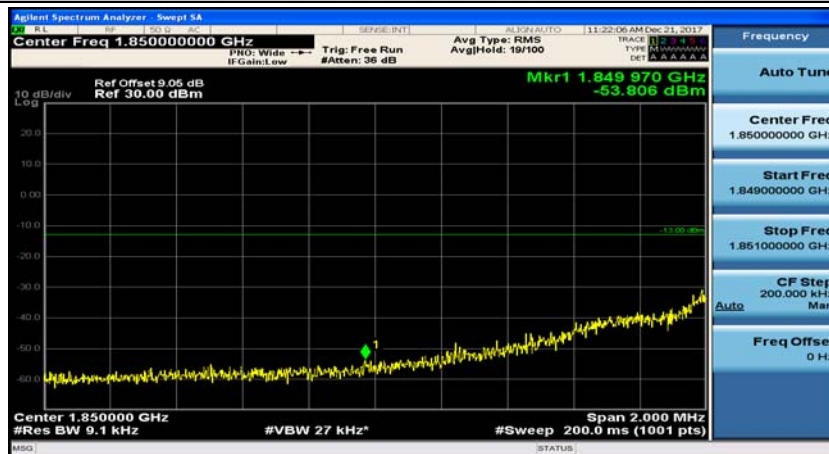

(Channel Bandwidth: 3 MHz)_LCH_QPSK_8RB#7

(Channel Bandwidth: 3 MHz)_LCH_QPSK_15RB#0

(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#0

(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#7

(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#14

(Channel Bandwidth: 3 MHz)_HCH_QPSK_8RB#0

(Channel Bandwidth: 3 MHz)_HCH_QPSK_8RB#4

(Channel Bandwidth: 3 MHz)_HCH_QPSK_8RB#7

(Channel Bandwidth: 3 MHz)_HCH_QPSK_15RB#0

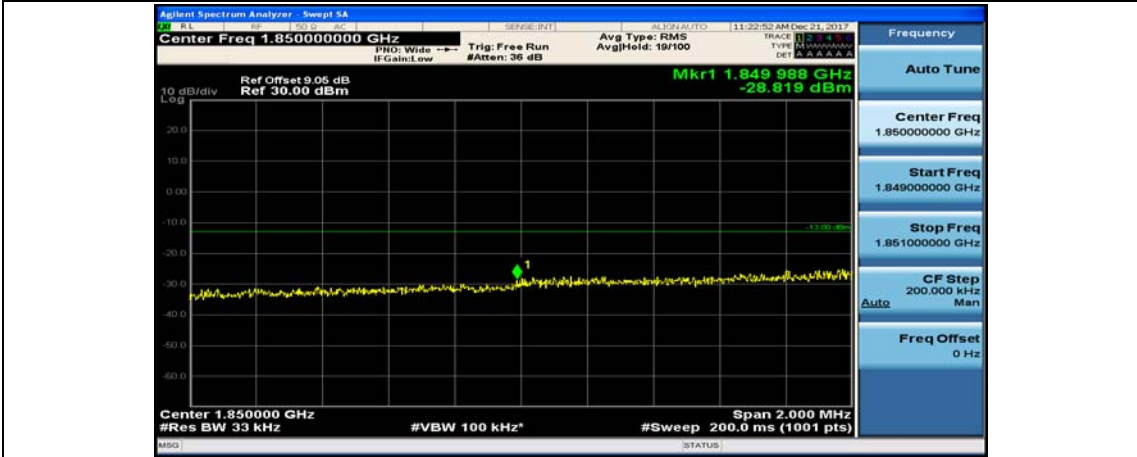| (Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#0 |
|---|
| |
| (Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#7 |
| |
| (Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#14 |
| |
| (Channel Bandwidth: 3 MHz)_LCH_16QAM_8RB#0 |

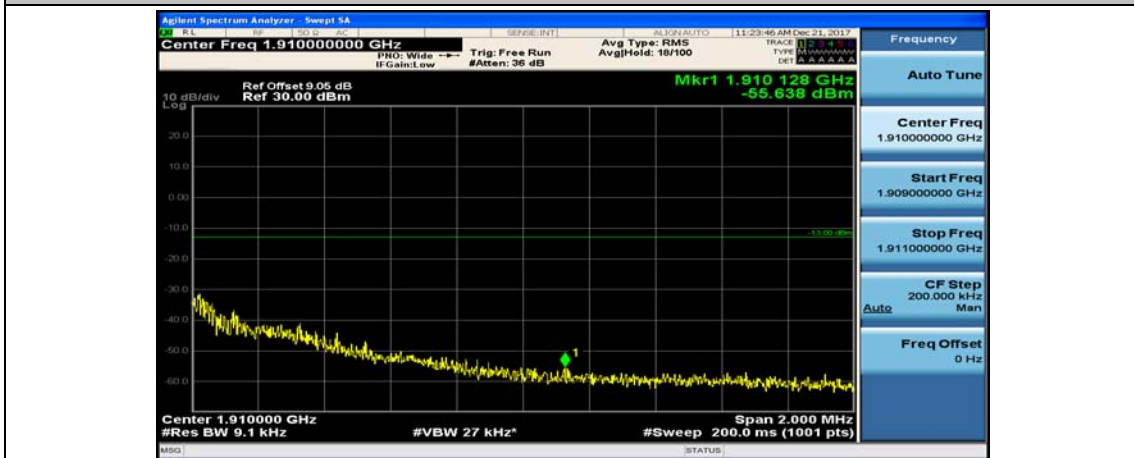(Channel Bandwidth: 3 MHz)_LCH_16QAM_8RB#4

(Channel Bandwidth: 3 MHz)_LCH_16QAM_8RB#7
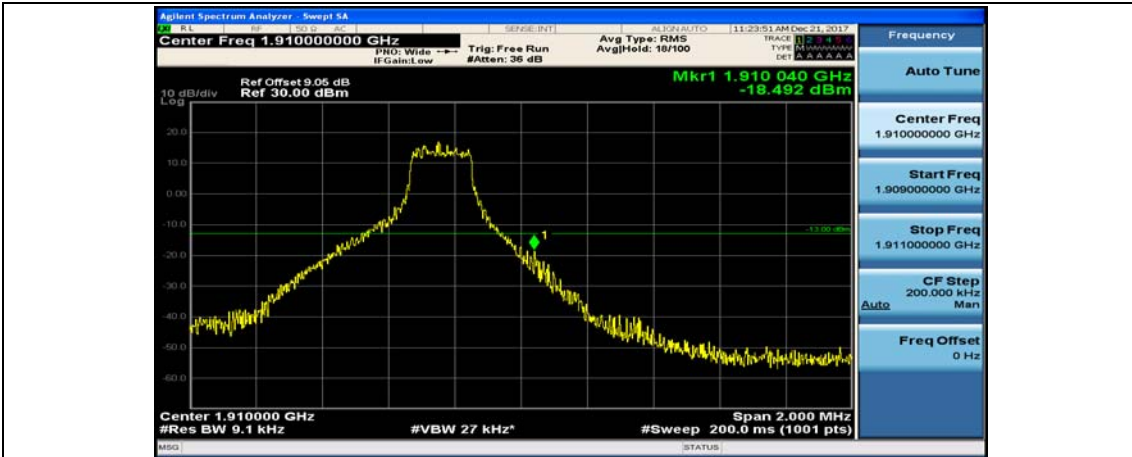

(Channel Bandwidth: 3 MHz)_LCH_16QAM_15RB#0

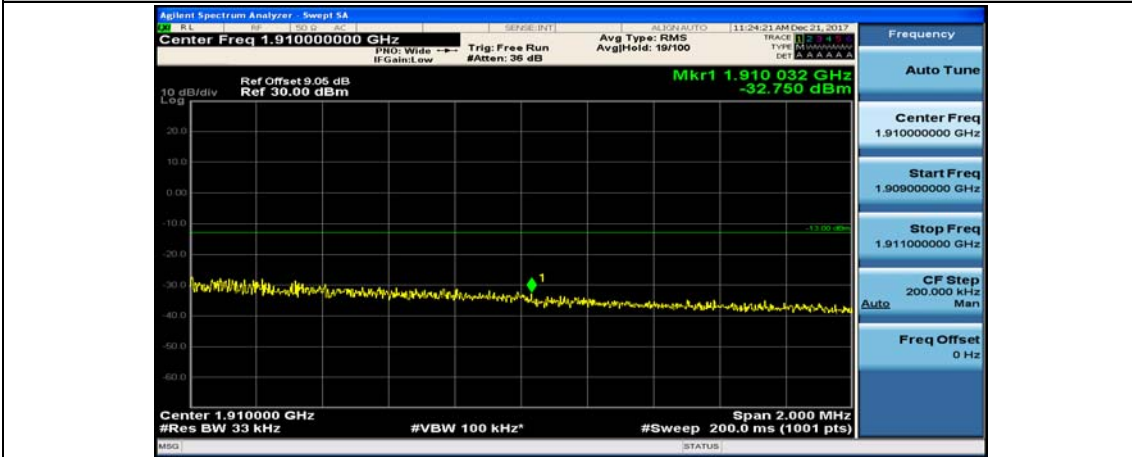| (Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#0 |
|---|

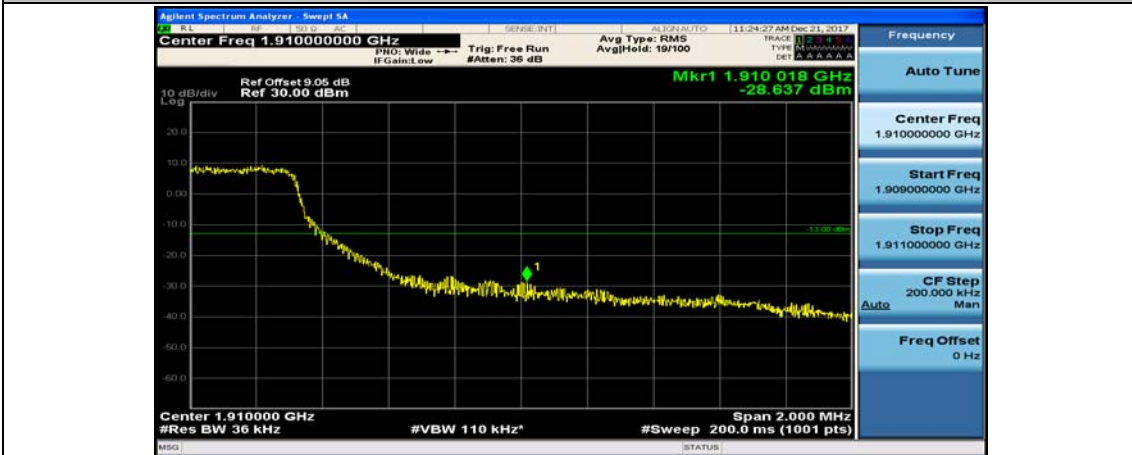| (Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#7 |
|---|

(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#14

(Channel Bandwidth: 3 MHz)_HCH_16QAM_8RB#0

(Channel Bandwidth: 3 MHz)_HCH_16QAM_8RB#4

(Channel Bandwidth: 3 MHz)_HCH_16QAM_8RB#7