Channel Bandwidth: 10 MHz_MCH_QPSK_25RB#0

Channel Bandwidth: 10 MHz_MCH_QPSK_25RB#12

Channel Bandwidth: 10 MHz_MCH_QPSK_25RB#25

Channel Bandwidth: 10 MHz_MCH_QPSK_50RB#0

Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#0

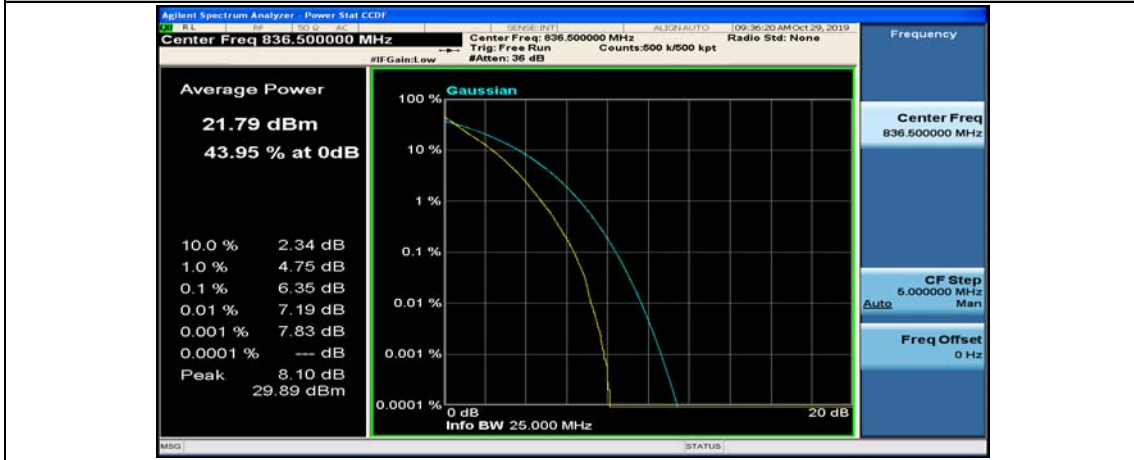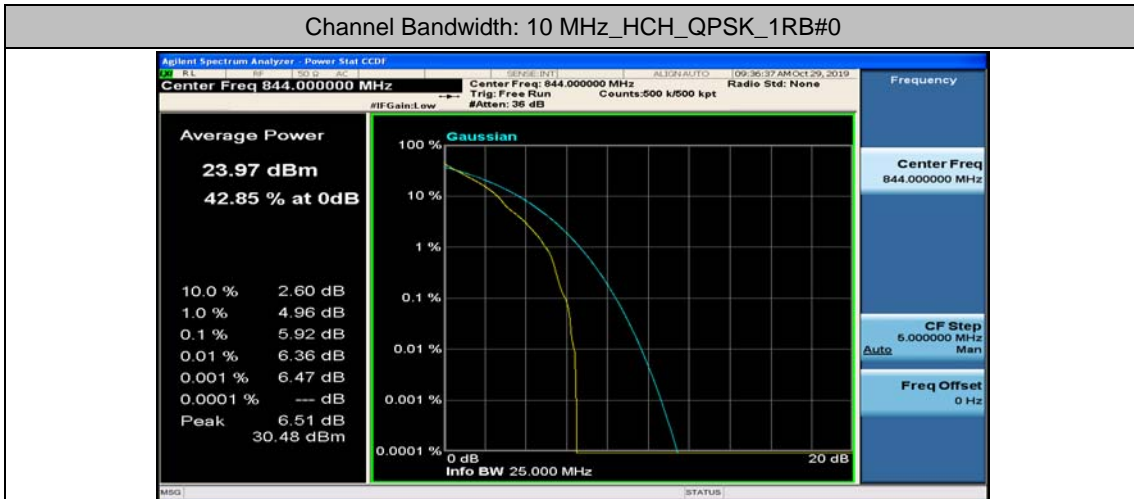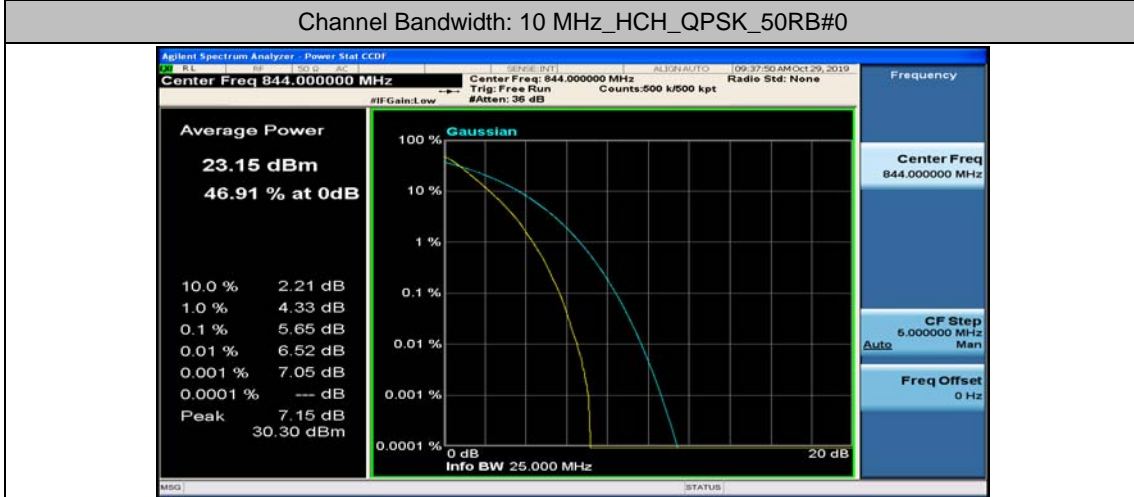| Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#24 |
| --- |

Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#49

Channel Bandwidth: 10 MHz_HCH_QPSK_25RB#0

Channel Bandwidth: 10 MHz_HCH_QPSK_25RB#12

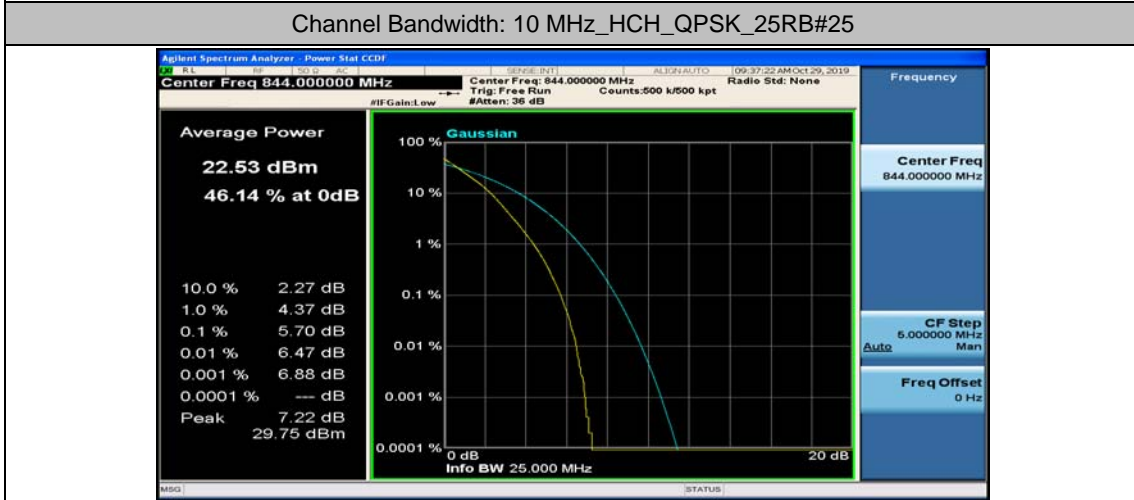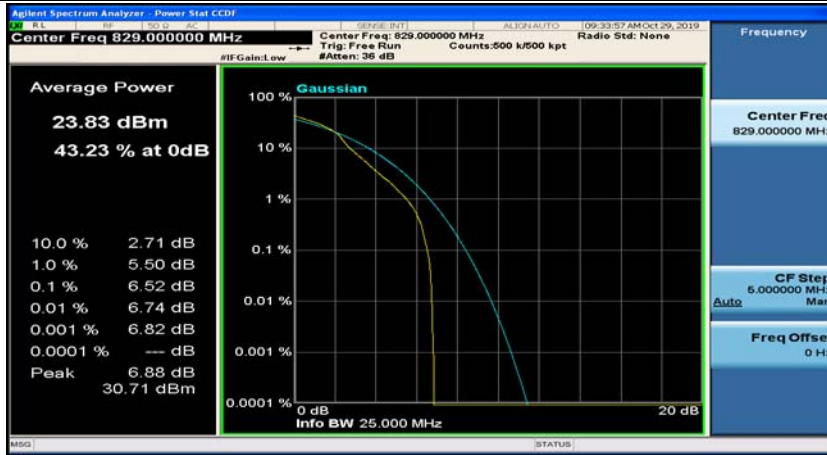| Channel Bandwidth: 10 MHz_HCH_QPSK_25RB#25 |
|---|

Channel Bandwidth: 10 MHz_HCH_QPSK_50RB#0

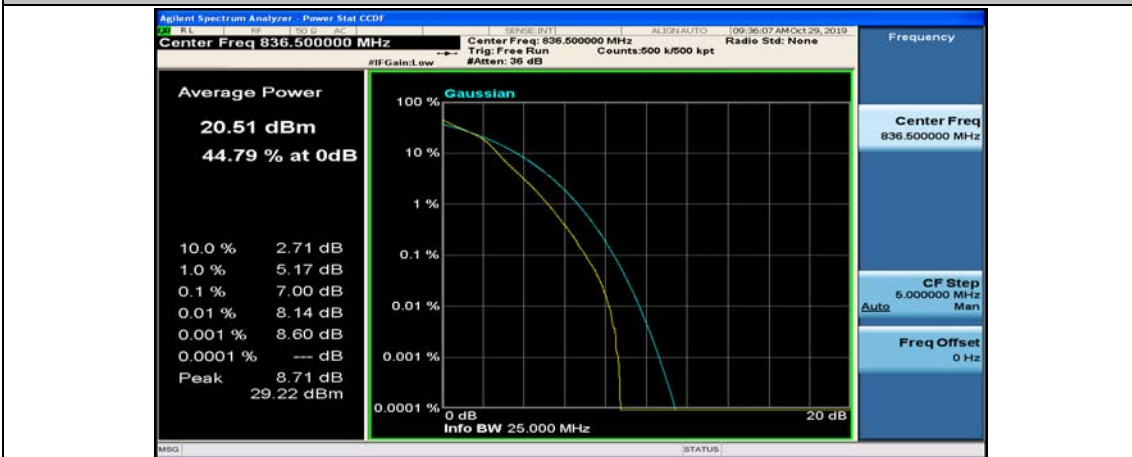| Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#0 |
|---|
| |
| Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#24 |
| |
| Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#49 |
| |
| Channel Bandwidth: 10 MHz_LCH_16QAM_25RB#0 |

Channel Bandwidth: 10 MHz_LCH_16QAM_25RB#12

Channel Bandwidth: 10 MHz_LCH_16QAM_25RB#25

Channel Bandwidth: 10 MHz_LCH_16QAM_50RB#0

Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#0

Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#24

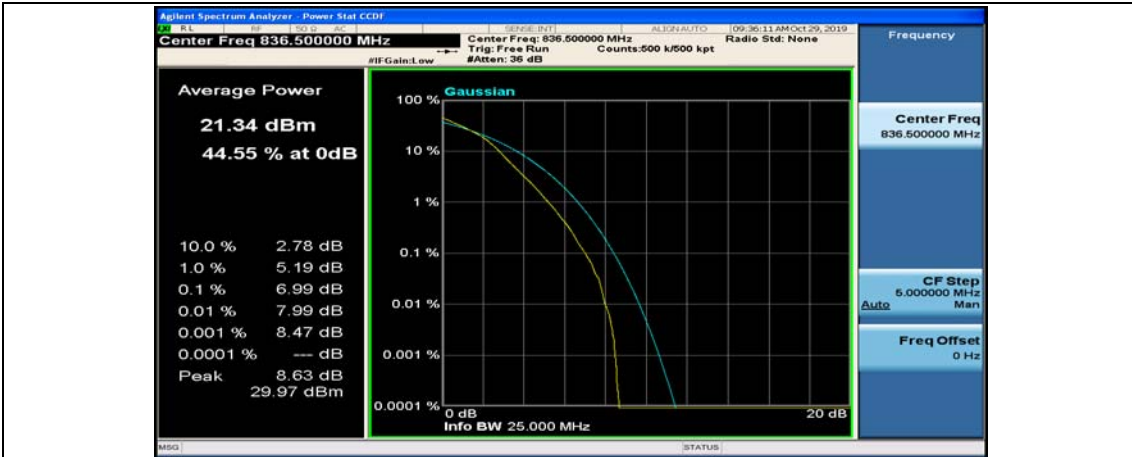| Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#49 |
|---|

Channel Bandwidth: 10 MHz_MCH_16QAM_25RB#0
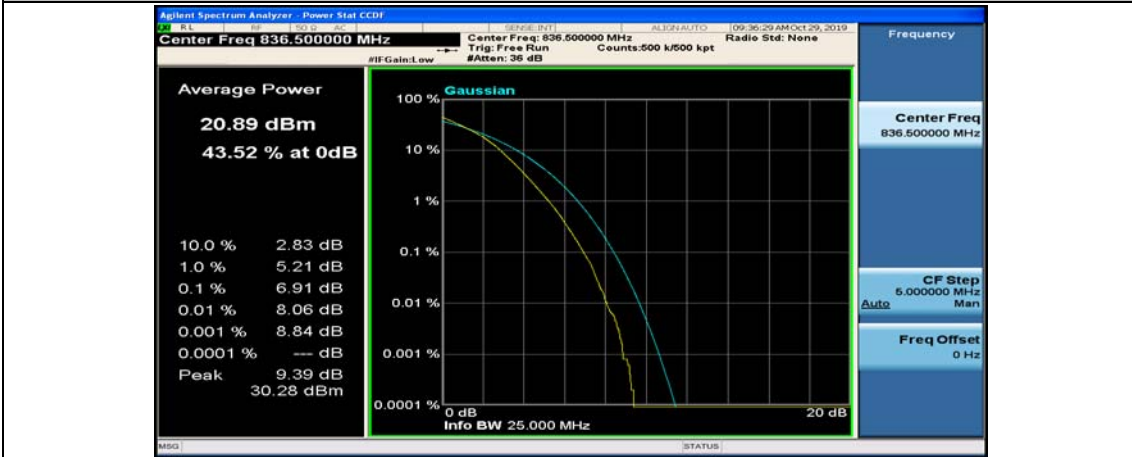

Channel Bandwidth: 10 MHz_MCH_16QAM_25RB#12

Channel Bandwidth: 10 MHz_MCH_16QAM_25RB#25

Channel Bandwidth: 10 MHz_MCH_16QAM_50RB#0

Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#0

Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#24

Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#49

Channel Bandwidth: 10 MHz_HCH_16QAM_25RB#0

Channel Bandwidth: 10 MHz_HCH_16QAM_25RB#12
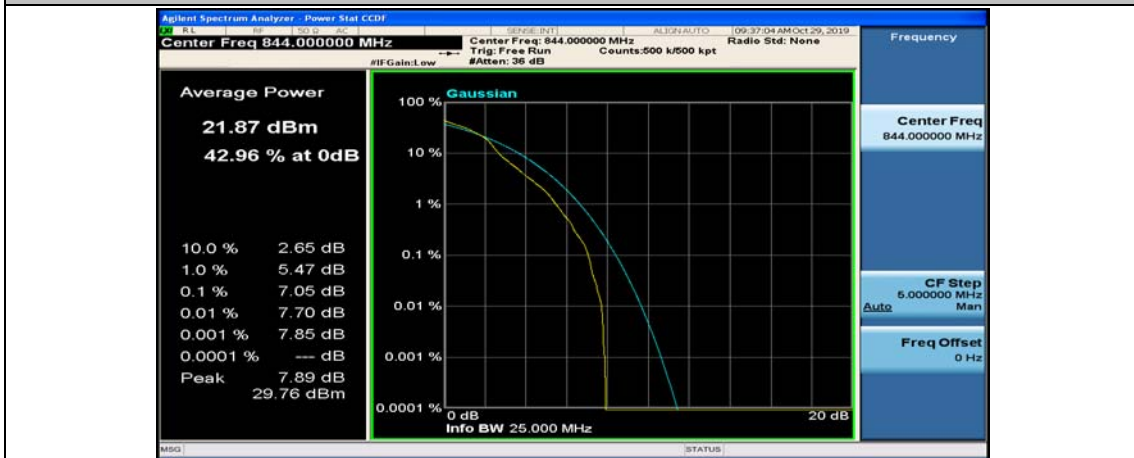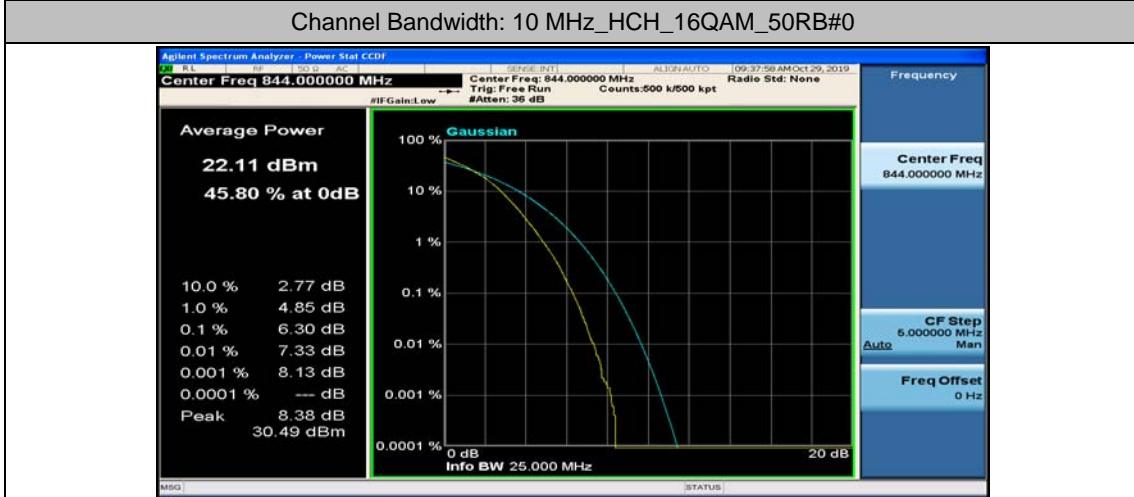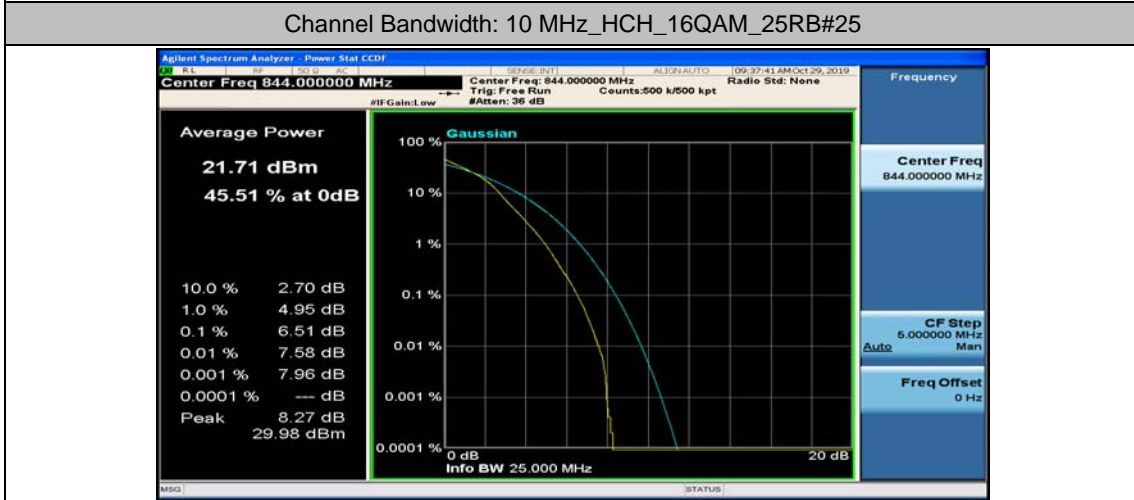
Channel Bandwidth: 10 MHz_HCH_16QAM_25RB#25

Channel Bandwidth: 10 MHz_HCH_16QAM_50RB#0

Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Channel Bandwidth: 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	1.0748	1.224	PASS
	MCH	6	0	1.0790	1.220	PASS
	HCH	6	0	1.0773	1.220	PASS
16QAM	LCH	6	0	1.0794	1.232	PASS
	MCH	6	0	1.0792	1.228	PASS
	HCH	6	0	1.0773	1.224	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	2.6828	2.868	PASS
	MCH	15	0	2.6825	2.901	PASS
	HCH	15	0	2.6837	2.838	PASS
16QAM	LCH	15	0	2.6803	2.872	PASS
	MCH	15	0	2.6861	2.878	PASS
	HCH	15	0	2.6836	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	4.4711	4.829	PASS
	MCH	25	0	4.4873	4.824	PASS
	HCH	25	0	4.4843	4.787	PASS
16QAM	LCH	25	0	4.4850	4.796	PASS
	MCH	25	0	4.4877	4.752	PASS
	HCH	25	0	4.4840	4.804	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	8.9120	9.404	PASS
	MCH	50	0	8.9606	9.504	PASS
	HCH	50	0	8.9145	9.369	PASS
16QAM	LCH	50	0	8.9081	9.345	PASS
	MCH	50	0	8.9701	9.488	PASS
	HCH	50	0	8.8968	9.341	PASS

Test Graphs

Channel Bandwidth: 1.4 MHz

(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_6RB#0
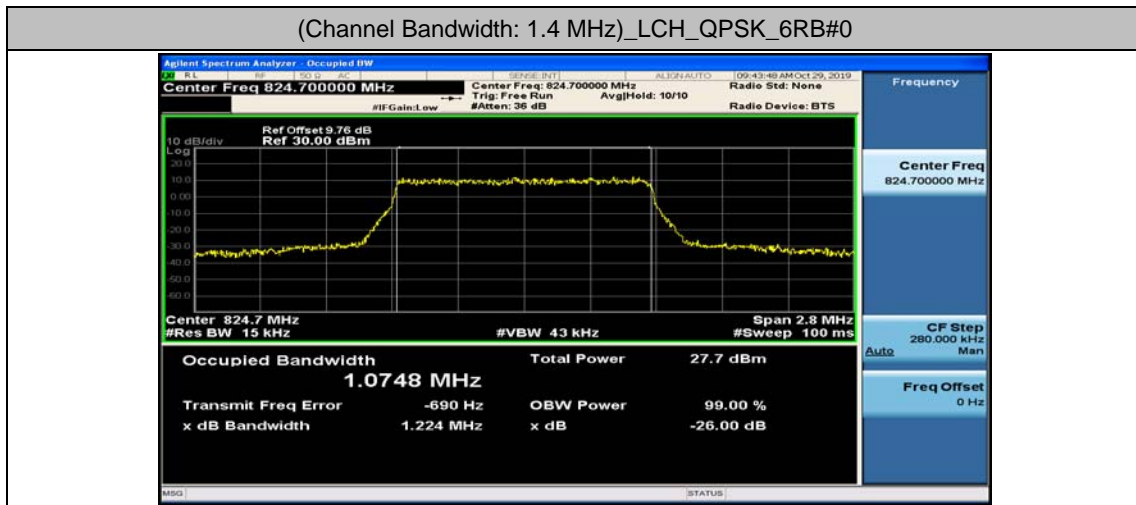
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_6RB#0
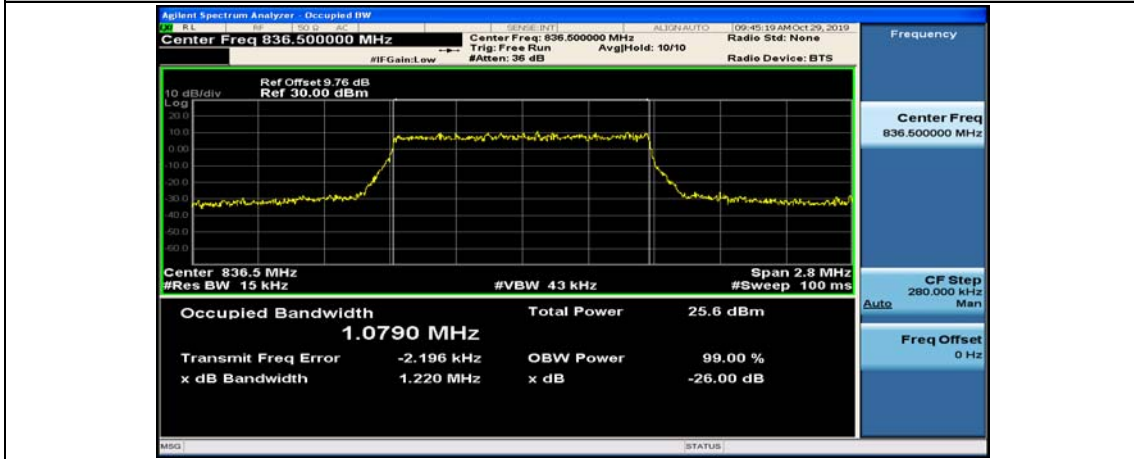
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_6RB#0
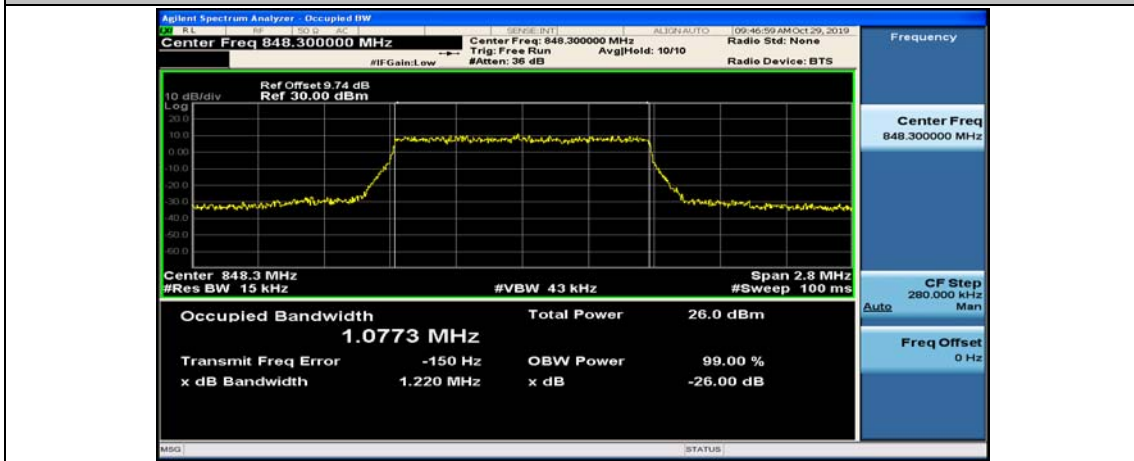
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_6RB#0

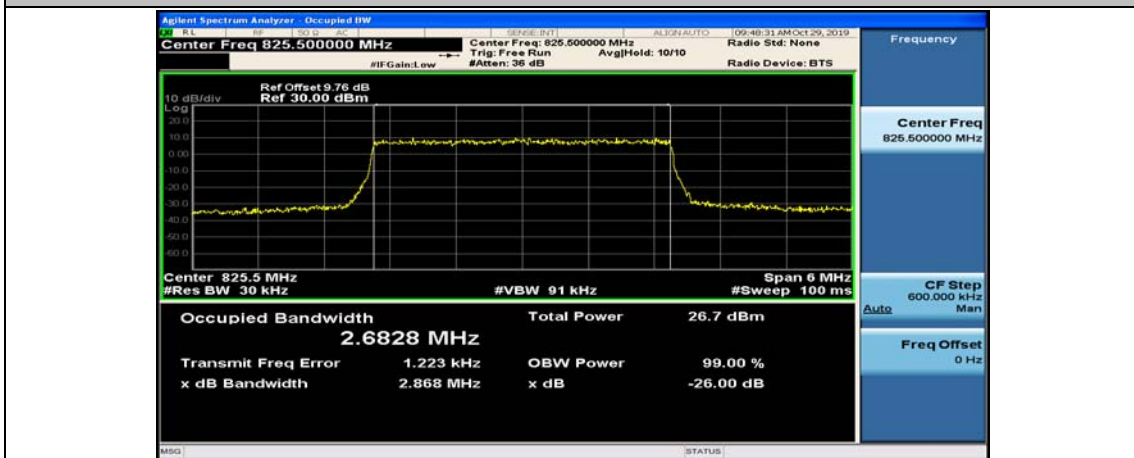| (Channel Bandwidth: 1.4 MHz)_MCH_16QAM_6RB#0 |
|---|
| |
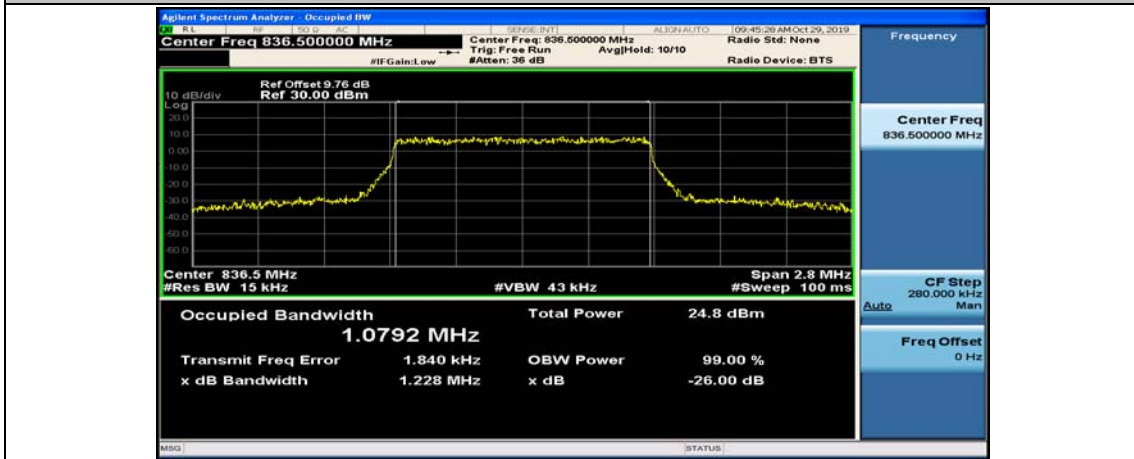
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_6RB#0
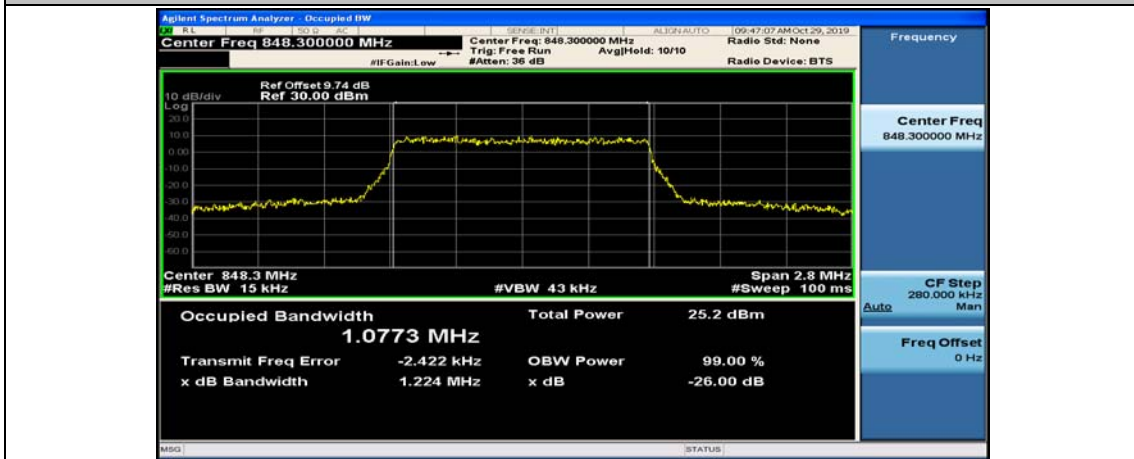
Channel Bandwidth: 3 MHz

(Channel Bandwidth: 3 MHz)_LCH_QPSK_15RB#0

(Channel Bandwidth: 3 MHz)_MCH_QPSK_15RB#0
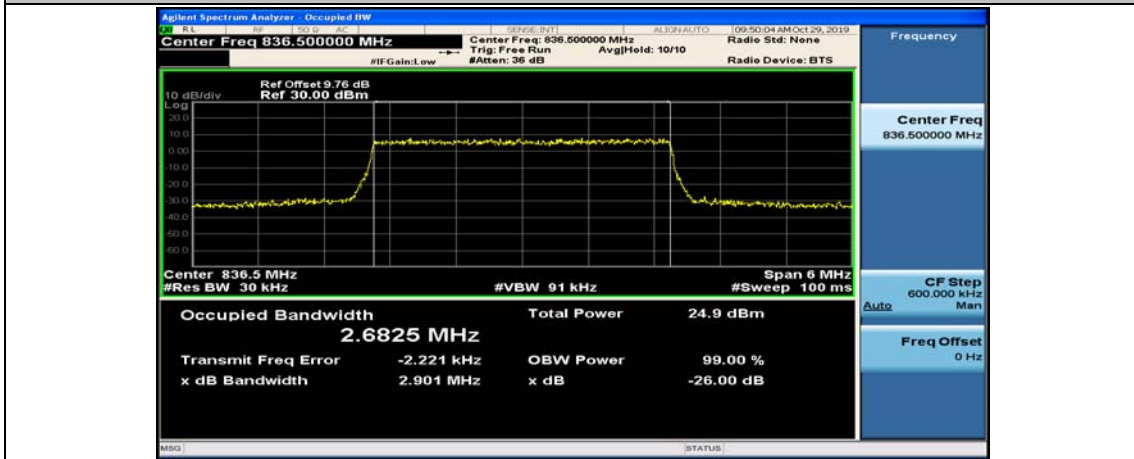
(Channel Bandwidth: 3 MHz)_HCH_QPSK_15RB#0
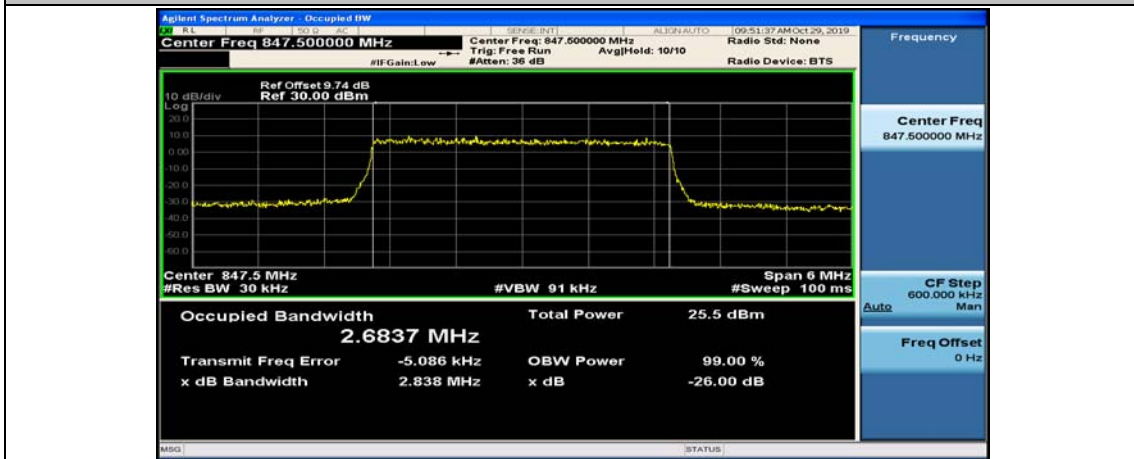
(Channel Bandwidth: 3 MHz)_LCH_16QAM_15RB#0
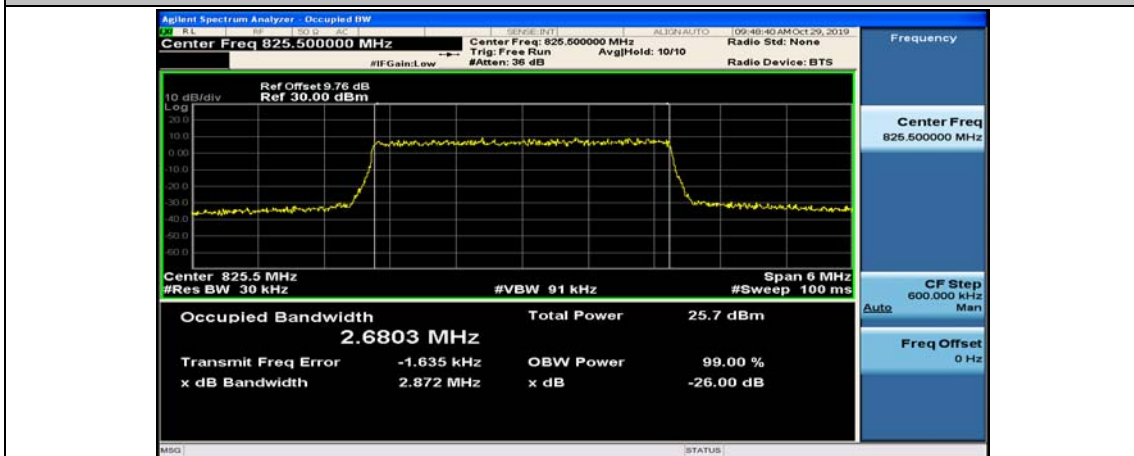
(Channel Bandwidth: 3 MHz)_MCH_16QAM_15RB#0

Agilent Spectrum Analyzer - Occupied BW
Center Freq 836.500000 MHz   Center Freq: 836.500000 MHz   Radio Std: None
                                Trig: Free Run   Avg|Hold: 10/10
        #IFGain:Low   #Atten: 36 dB   Radio Device: BTS

Frequency
Center Freq 836.500000 MHz
CF Step 600.000 kHz   Auto   Man
Freq Offset 0 Hz

Ref Offset 9.76 dB
10 dB/div   Ref 30.00 dBm

Center 836.5 MHz   Span 6 MHz
#Res BW 30 kHz   #VBW 91 kHz   #Sweep 100 ms

Occupied Bandwidth		Total Power	24.0 dBm
	2.6861 MHz		
Transmit Freq Error	-2.192 kHz	OBW Power	99.00 %
x dB Bandwidth	2.878 MHz	x dB	-26.00 dB

(Channel Bandwidth: 3 MHz)_HCH_16QAM_15RB#0

Agilent Spectrum Analyzer - Occupied BW
Center Freq 847.500000 MHz   Center Freq: 847.500000 MHz   Radio Std: None
                                Trig: Free Run   Avg|Hold: 10/10
        #IFGain:Low   #Atten: 36 dB   Radio Device: BTS

Frequency
Center Freq 847.500000 MHz
CF Step 600.000 kHz   Auto   Man
Freq Offset 0 Hz

Ref Offset 9.74 dB
10 dB/div   Ref 30.00 dBm

Center 847.5 MHz   Span 6 MHz
#Res BW 30 kHz   #VBW 91 kHz   #Sweep 100 ms

Occupied Bandwidth		Total Power	24.7 dBm
	2.6836 MHz		
Transmit Freq Error	-4.150 kHz	OBW Power	99.00 %
x dB Bandwidth	2.863 MHz	x dB	-26.00 dB

Channel Bandwidth: 5 MHz

(Channel Bandwidth: 5 MHz)_LCH_QPSK_25RB#0

Agilent Spectrum Analyzer - Occupied BW
Center Freq 826.500000 MHz   Center Freq: 826.500000 MHz   Radio Std: None
                                Trig: Free Run   Avg|Hold: 10/10
        #IFGain:Low   #Atten: 36 dB   Radio Device: BTS

Frequency
Center Freq 826.500000 MHz
CF Step 1.000000 MHz   Auto   Man
Freq Offset 0 Hz

Ref Offset 9.76 dB
10 dB/div   Ref 30.00 dBm

Center 826.5 MHz   Span 10 MHz
#Res BW 56 kHz   #VBW 160 kHz   #Sweep 100 ms

Occupied Bandwidth		Total Power	26.0 dBm
	4.4711 MHz		
Transmit Freq Error	-1.048 kHz	OBW Power	99.00 %
x dB Bandwidth	4.829 MHz	x dB	-26.00 dB

(Channel Bandwidth: 5 MHz)_MCH_QPSK_25RB#0
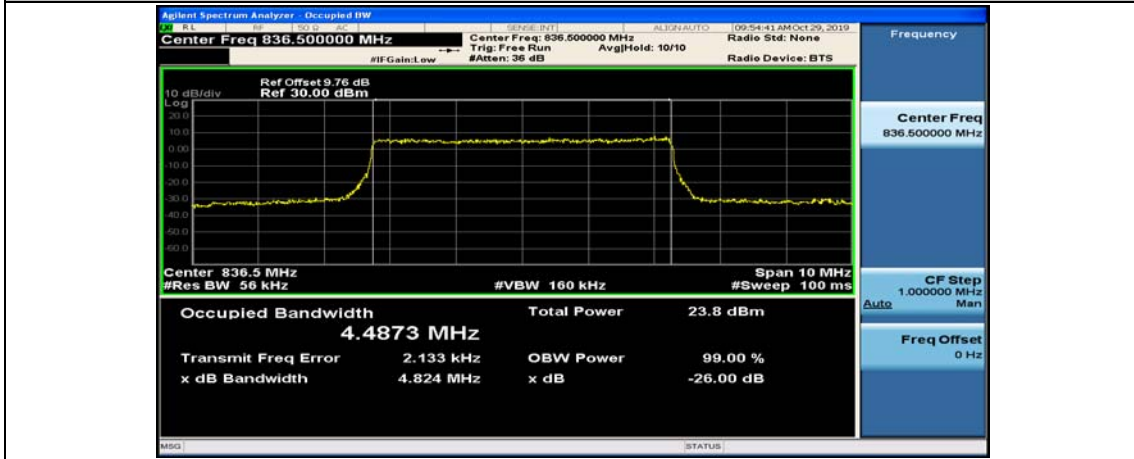
(Channel Bandwidth: 5 MHz)_HCH_QPSK_25RB#0
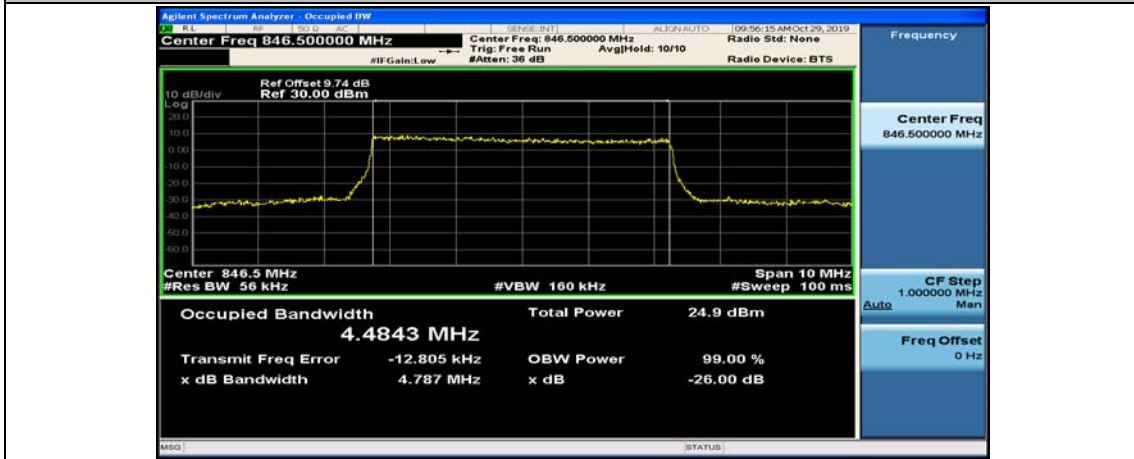
(Channel Bandwidth: 5 MHz)_LCH_16QAM_25RB#0

(Channel Bandwidth: 5 MHz)_MCH_16QAM_25RB#0
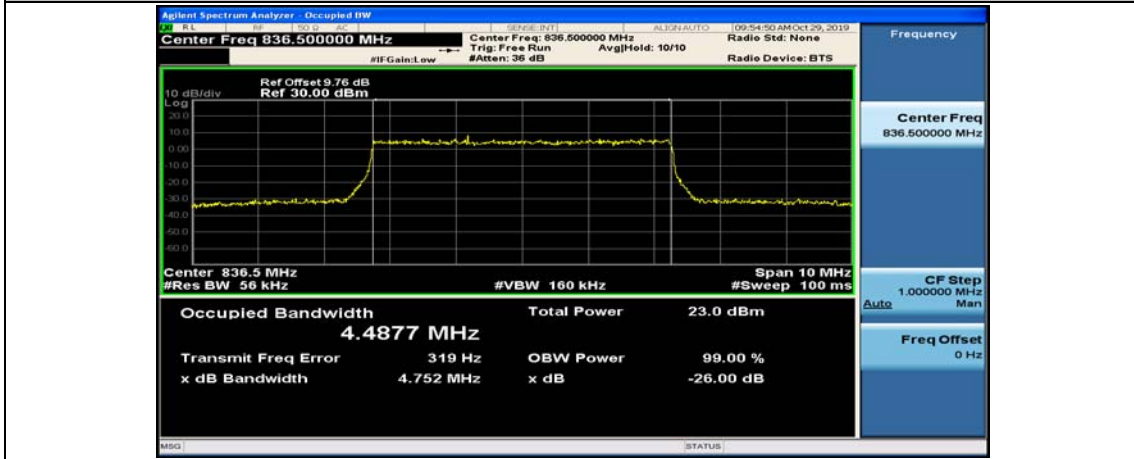
(Channel Bandwidth: 5 MHz)_HCH_16QAM_25RB#0
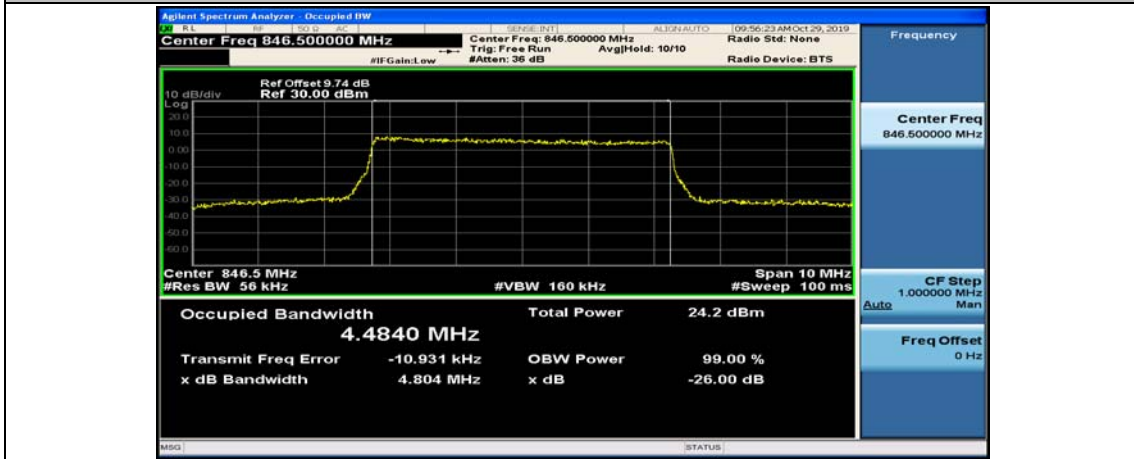
Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz_LCH_QPSK_50RB#0
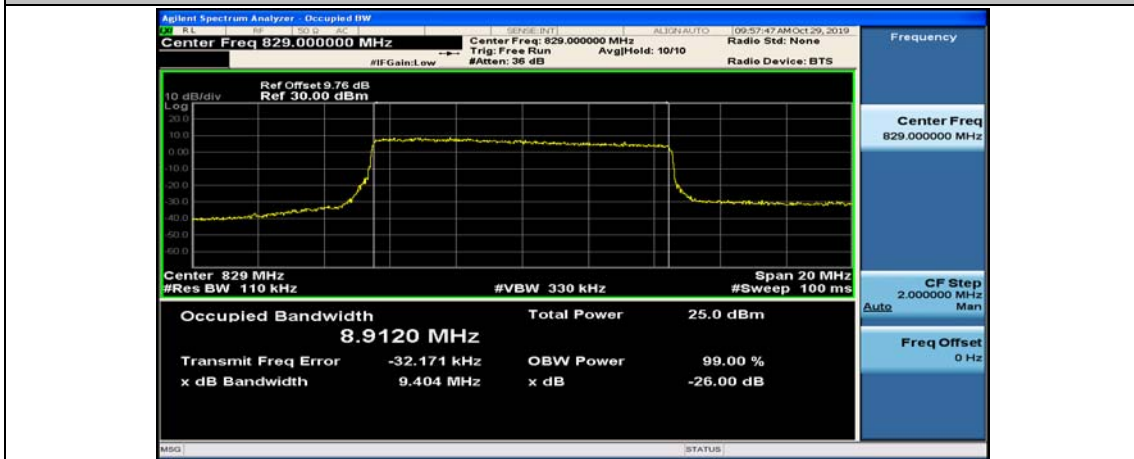
Channel Bandwidth: 10 MHz_MCH_QPSK_50RB#0
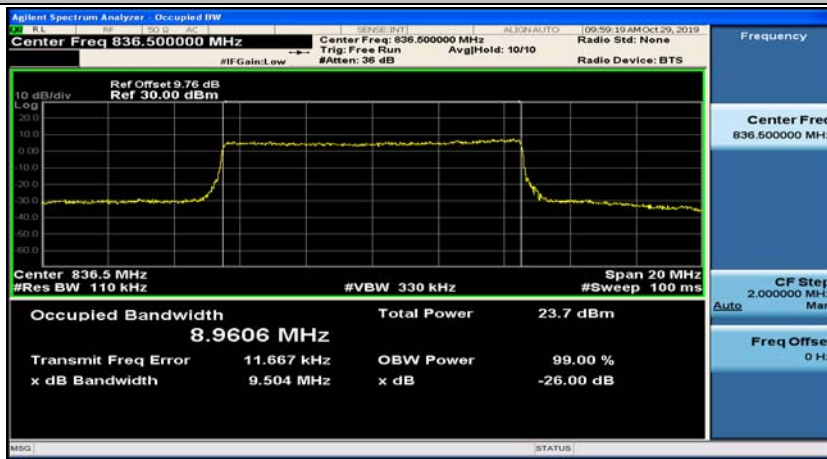
Channel Bandwidth: 10 MHz_HCH_QPSK_50RB#0
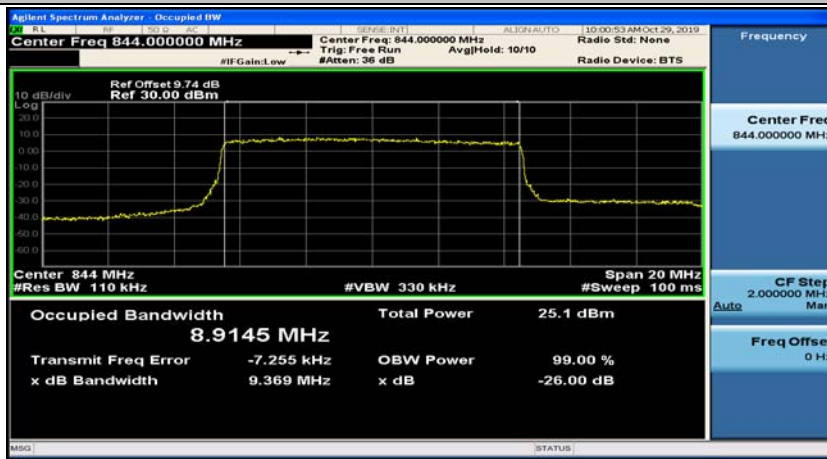
Channel Bandwidth: 10 MHz_LCH_16QAM_50RB#0

Channel Bandwidth: 10 MHz_MCH_16QAM_50RB#0
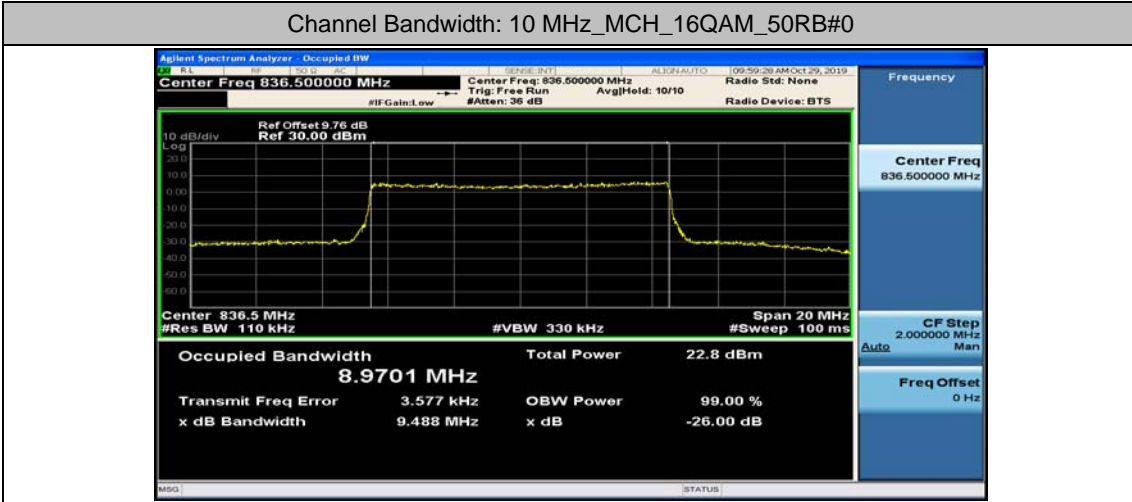
Channel Bandwidth: 10 MHz_HCH_16QAM_50RB#0
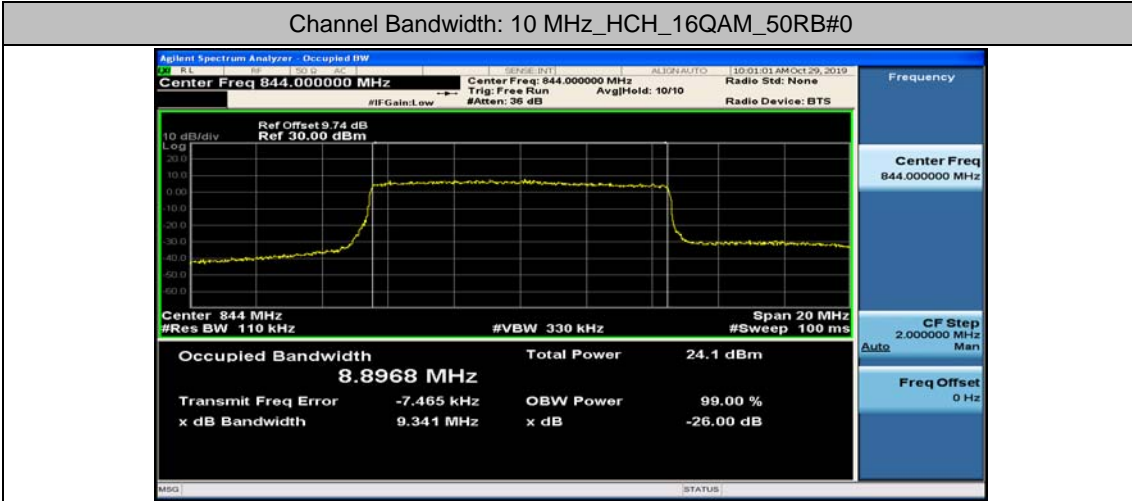
Appendix D: Band Edge

Test Graphs

Channel Bandwidth: 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
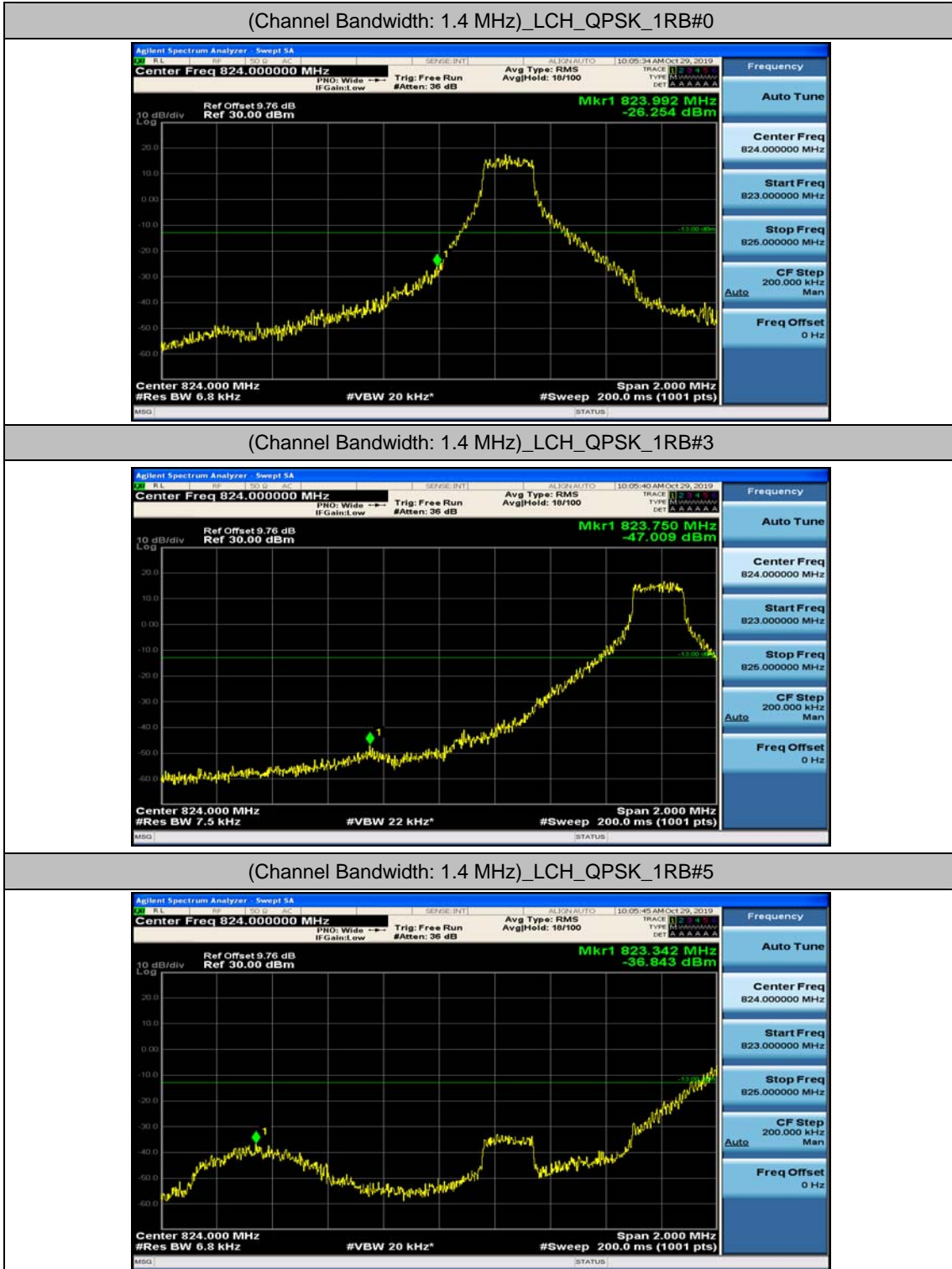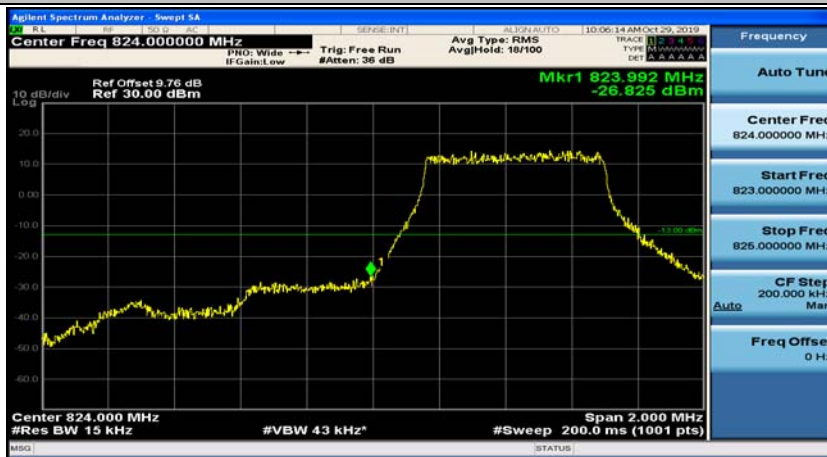
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_3RB#0
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_3RB#2
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_3RB#3
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_6RB#0
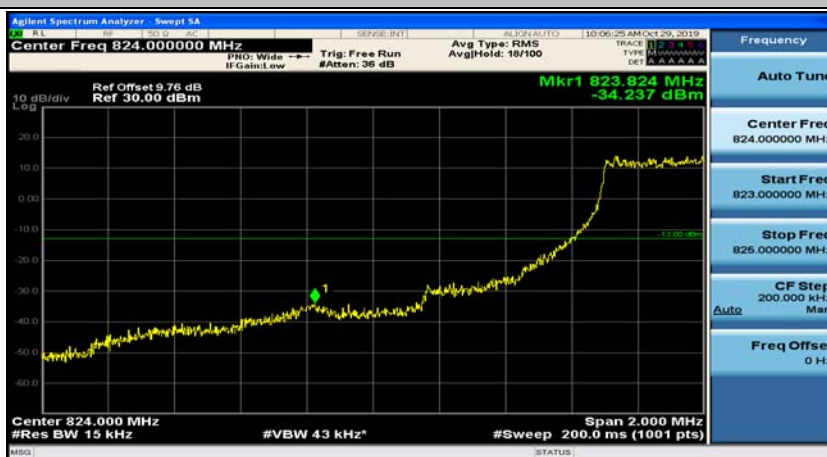
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#0
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#3
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#5
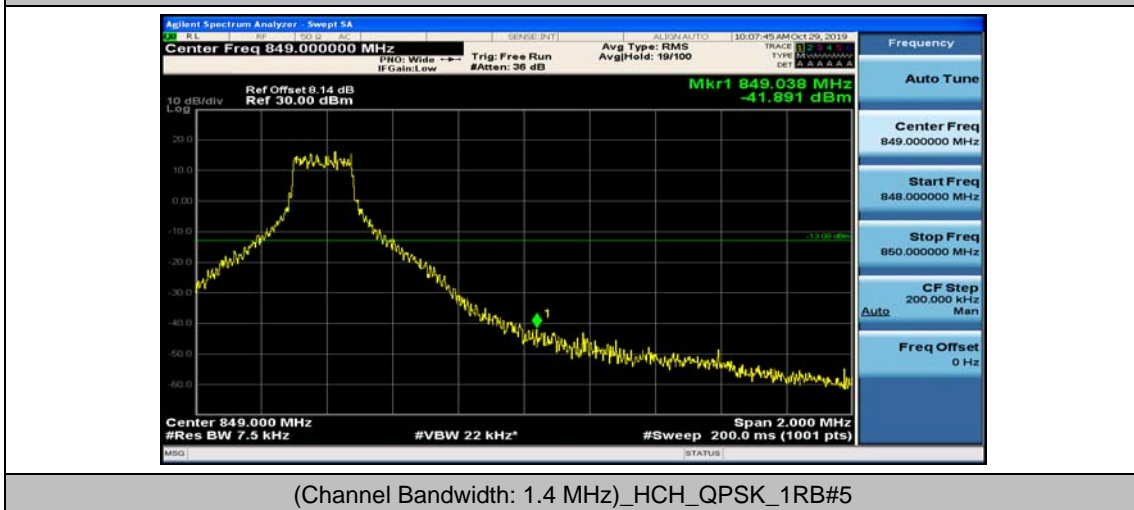
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_3RB#0

(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_3RB#2

(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_3RB#3
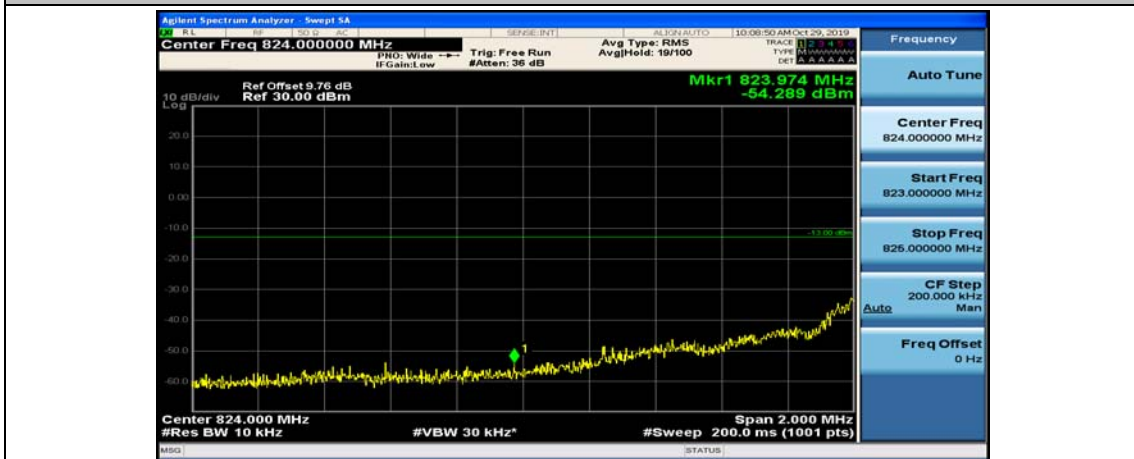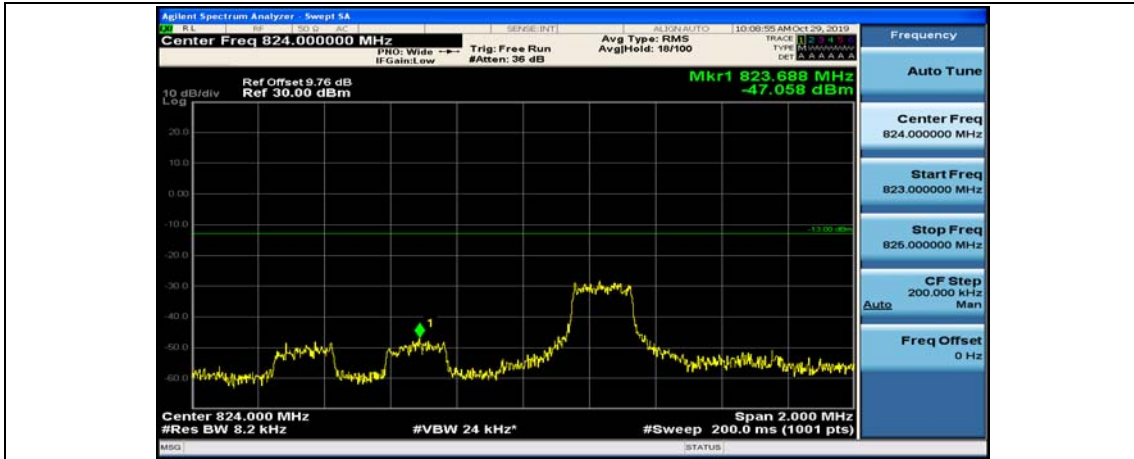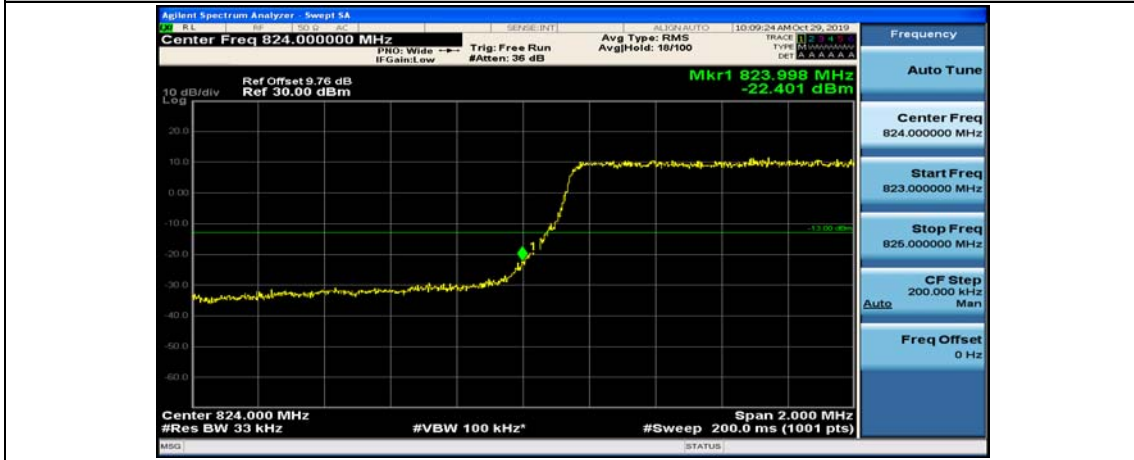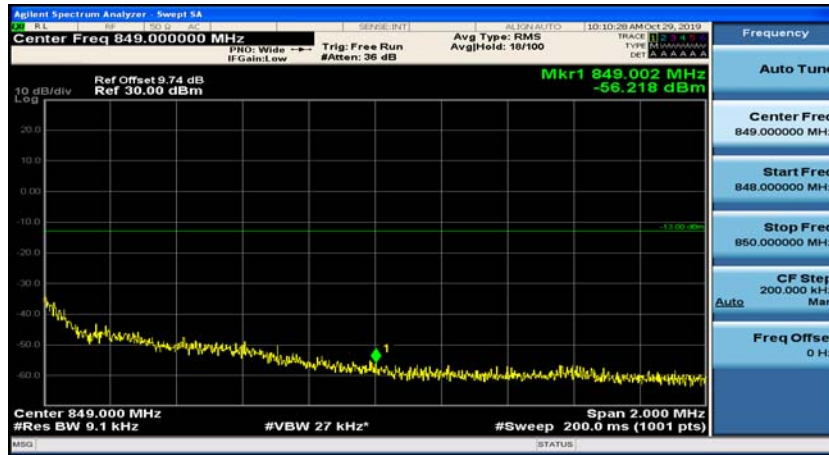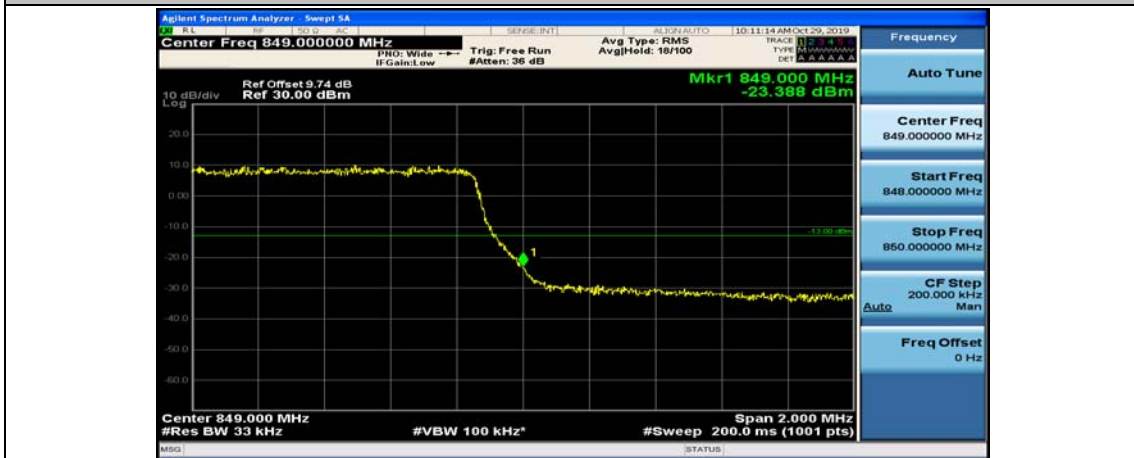
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_6RB#0
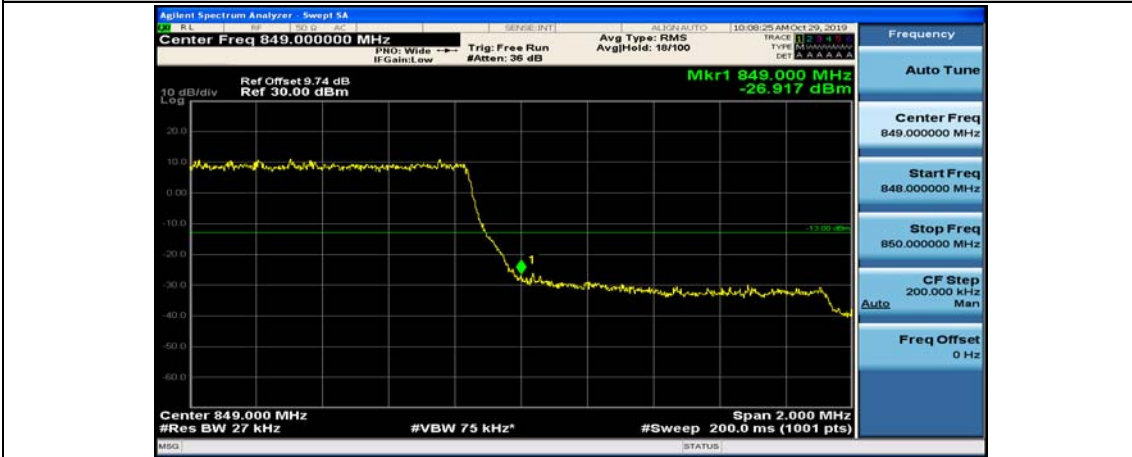
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#0

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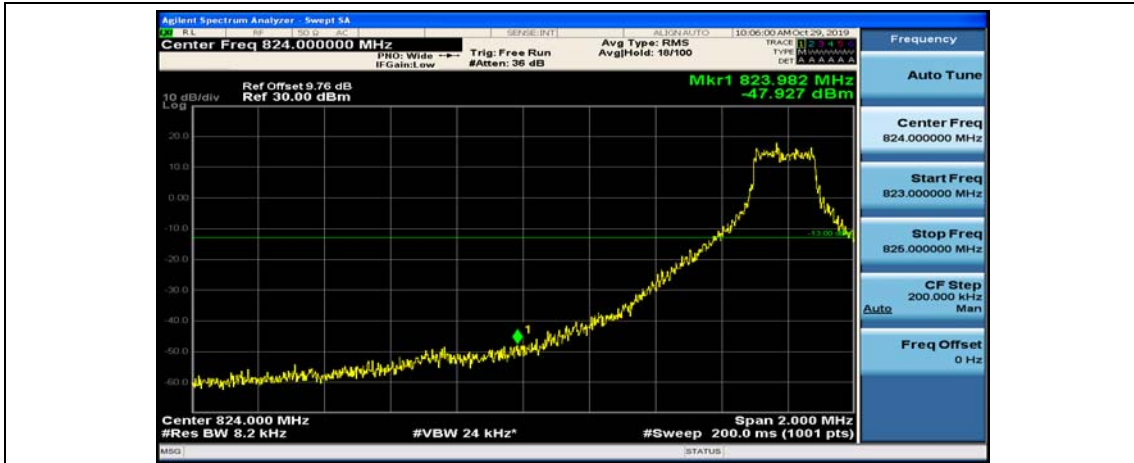
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#5

(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
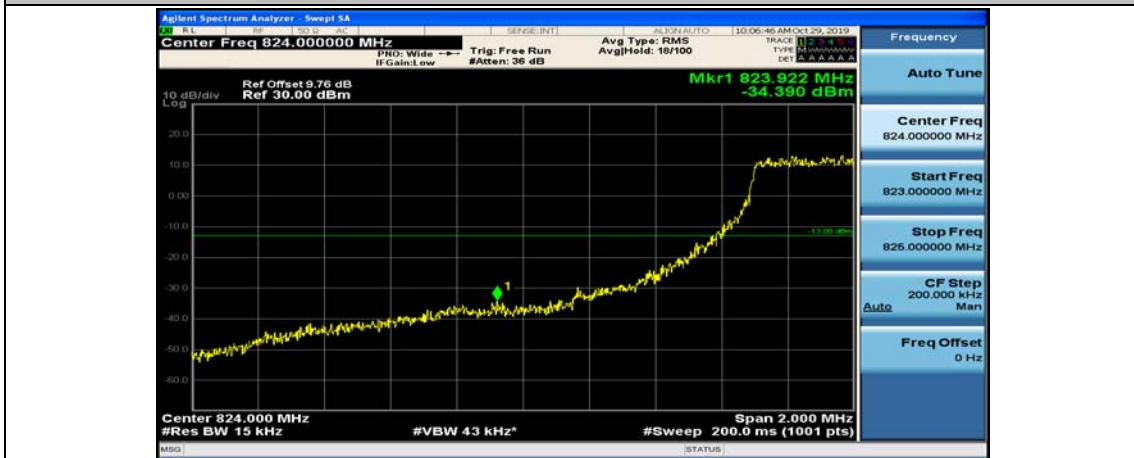
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_6RB#0

(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
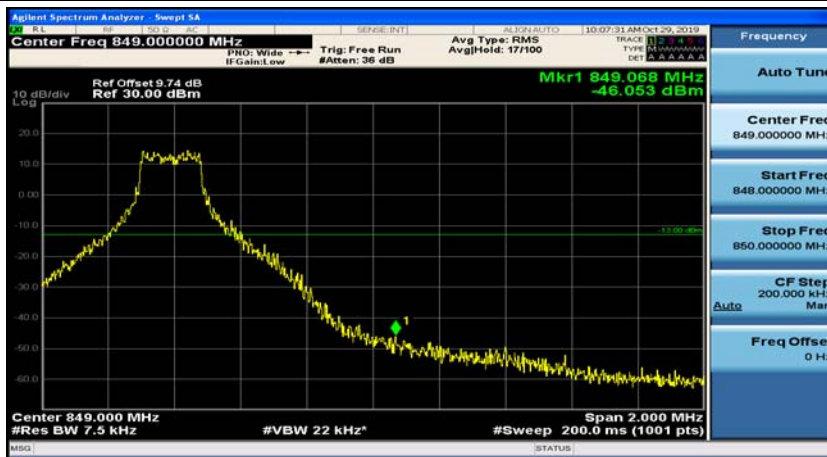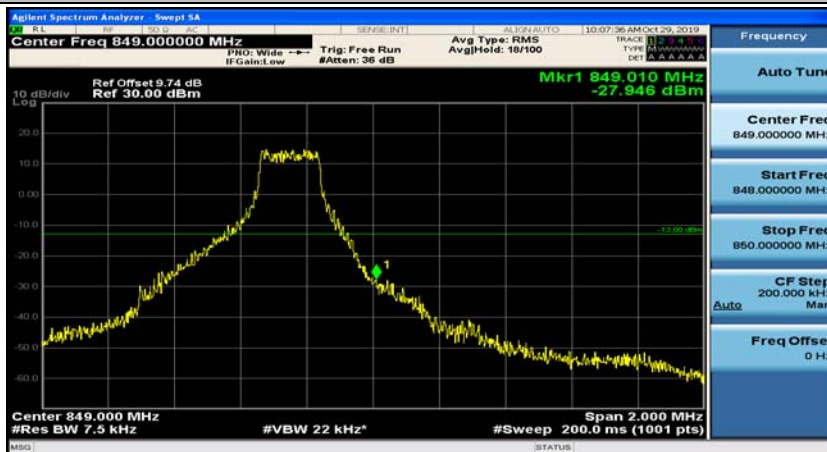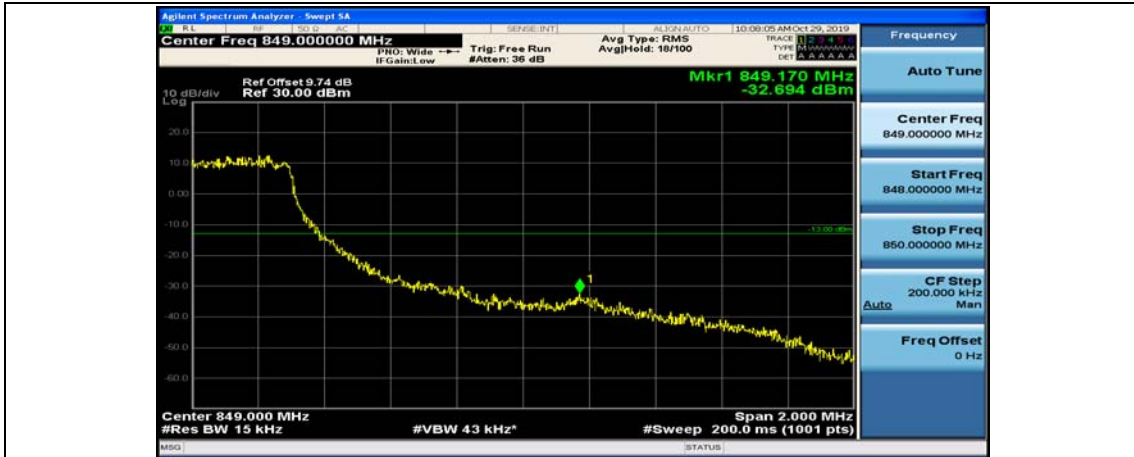
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_3RB#2

(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
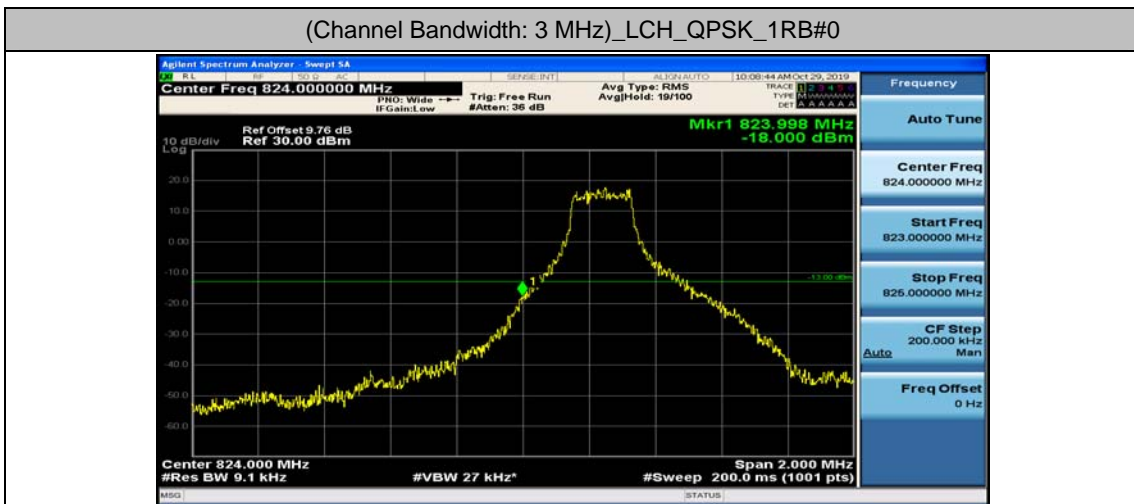
(Channel Bandwidth: 3 MHz)_LCH_QPSK_8RB#0
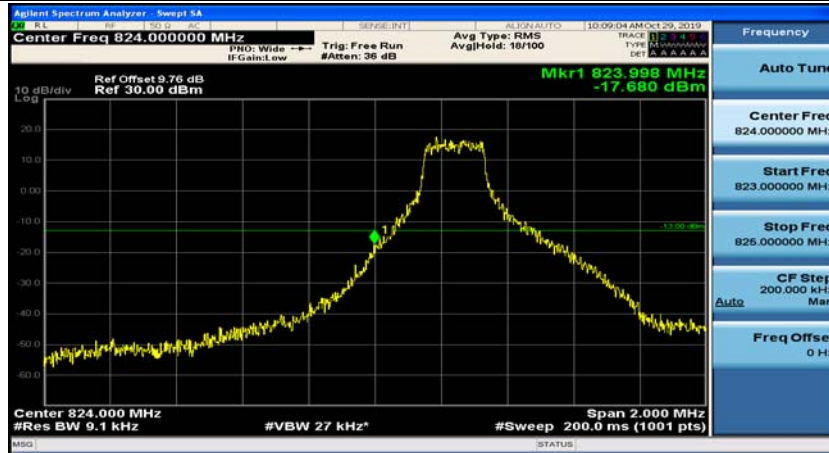

(Channel Bandwidth: 3 MHz)_LCH_QPSK_8RB#4
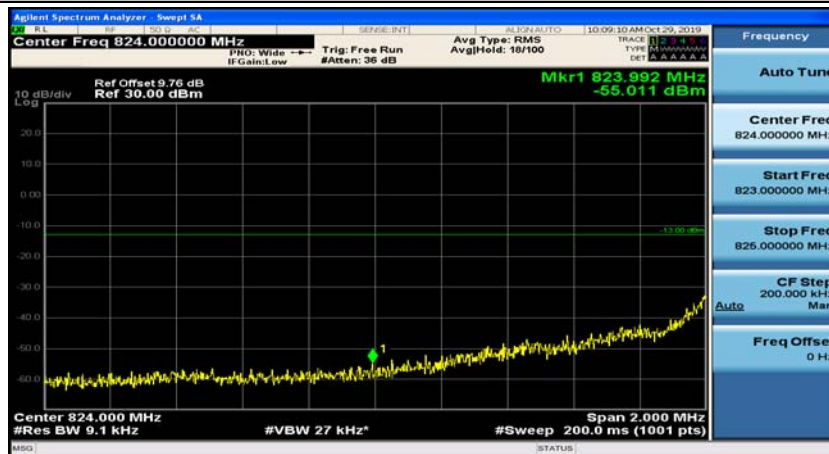

(Channel Bandwidth: 3 MHz)_LCH_QPSK_8RB#7
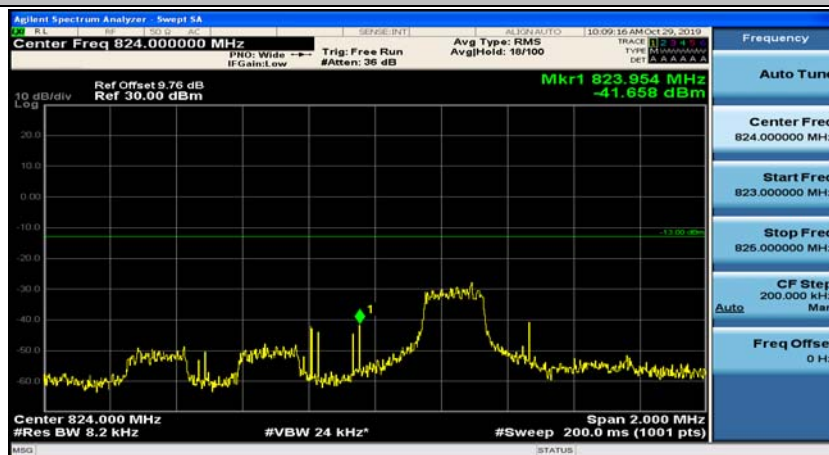
(Channel Bandwidth: 3 MHz)_LCH_QPSK_15RB#0
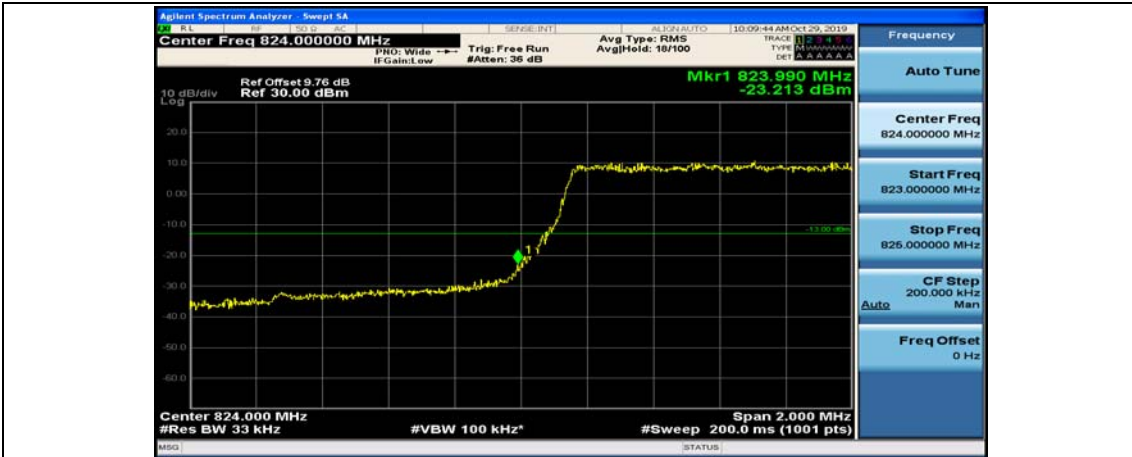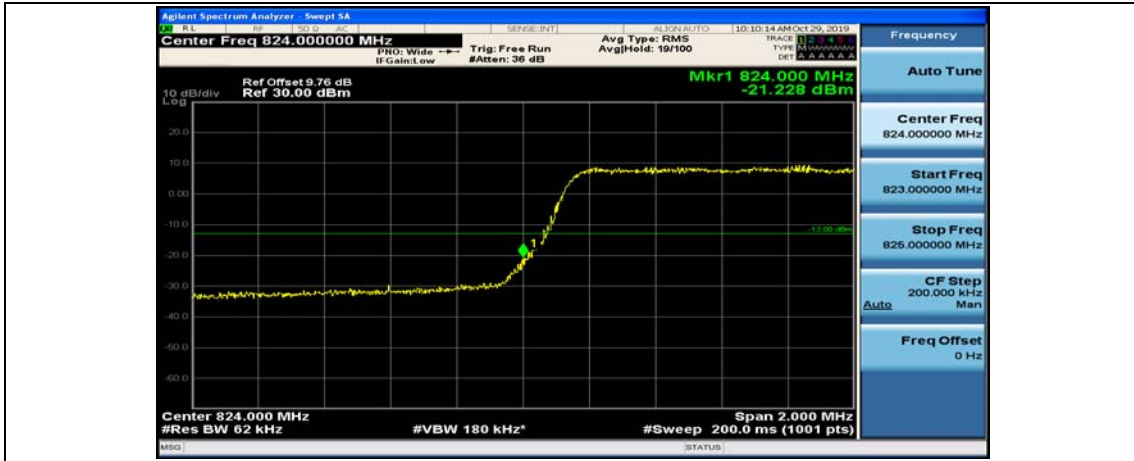

(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#0

(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
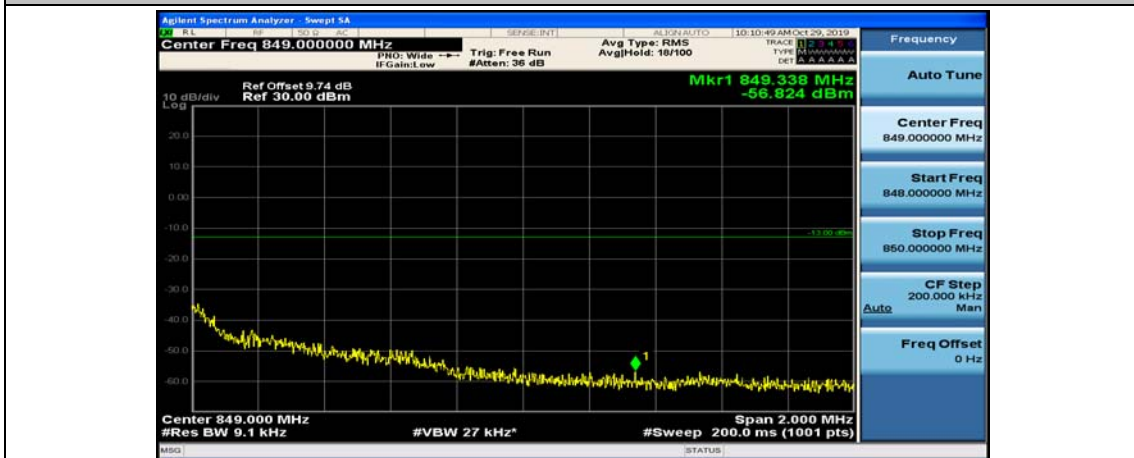

(Channel Bandwidth: 3 MHz)_LCH_16QAM_8RB#7
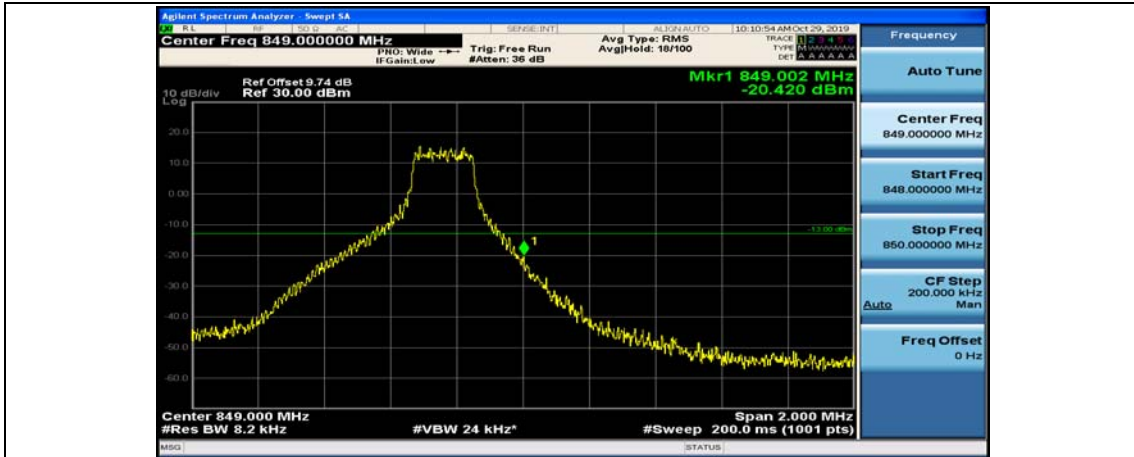

(Channel Bandwidth: 3 MHz)_LCH_16QAM_15RB#0

(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
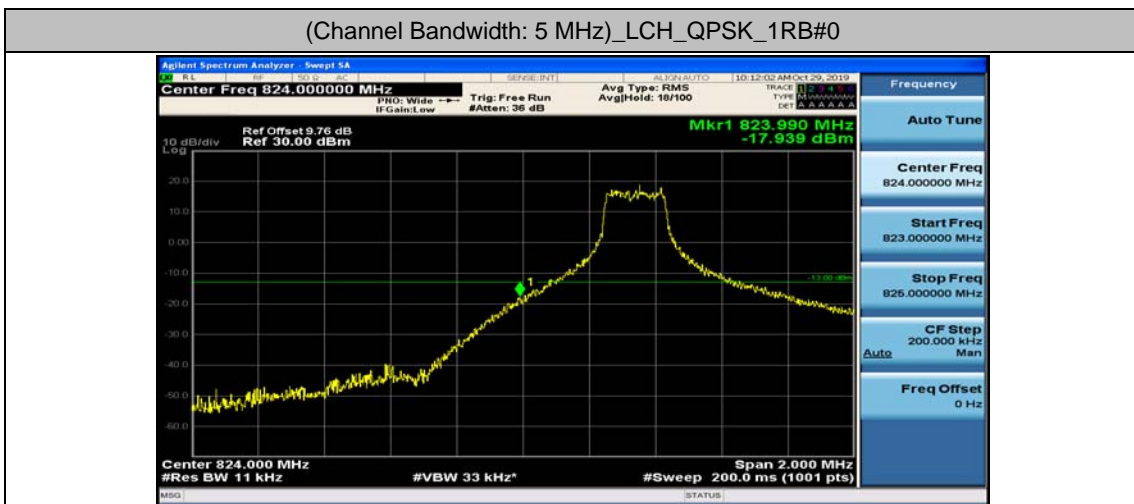

(Channel Bandwidth: 3 MHz)_HCH_16QAM_8RB#4

(Channel Bandwidth: 3 MHz)_HCH_16QAM_8RB#7
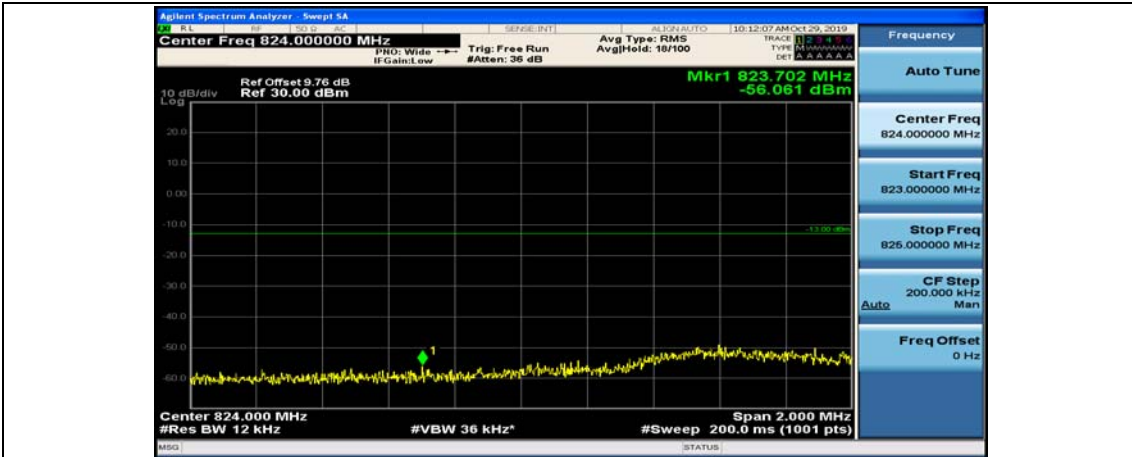
(Channel Bandwidth: 3 MHz)_HCH_16QAM_15RB#0

Channel Bandwidth: 5 MHz

(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#0

(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#12

(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#24
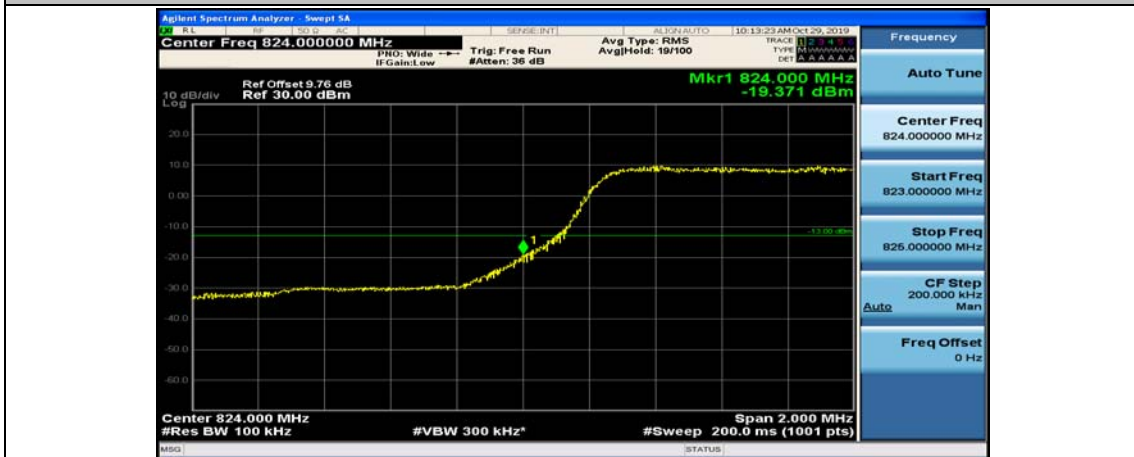

(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#0
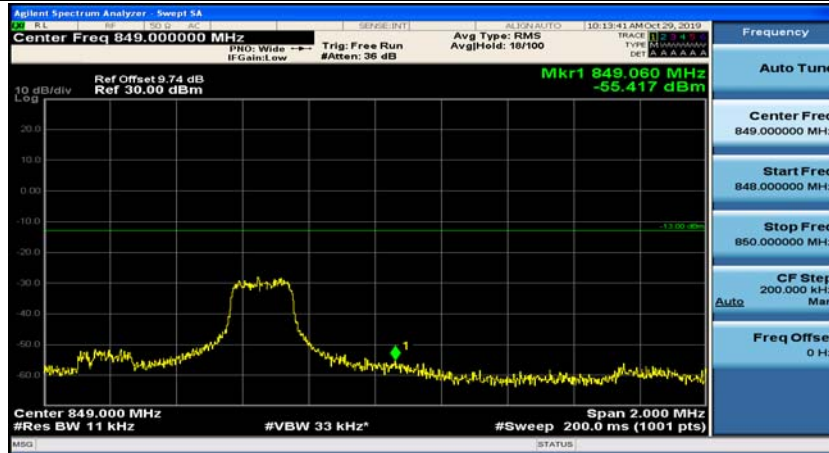

(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#6
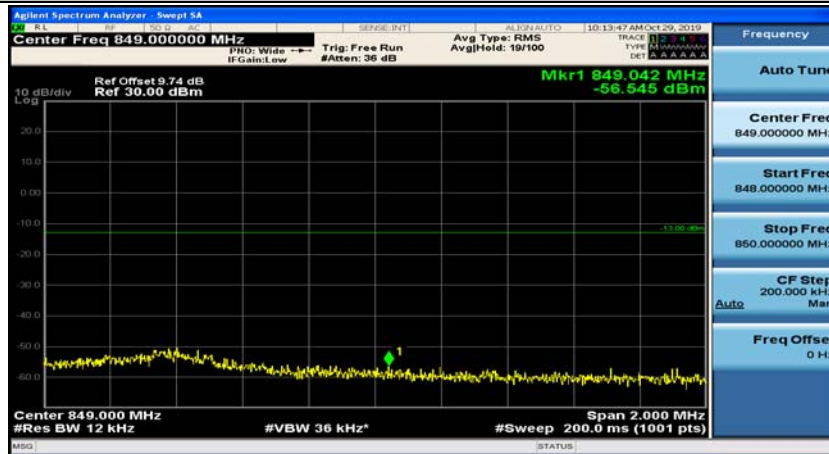
(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#13

(Channel Bandwidth: 5 MHz)_LCH_QPSK_25RB#0

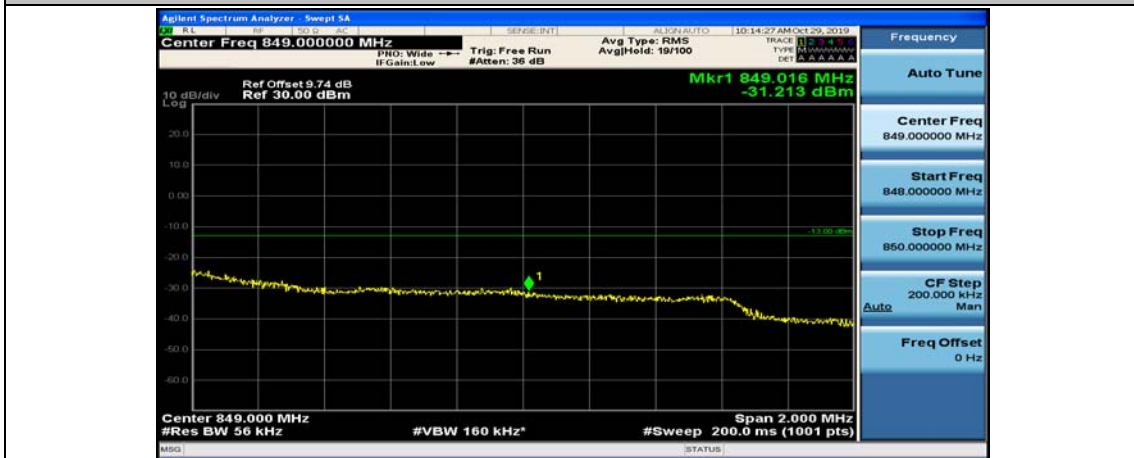| (Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#0 |
|---|
| |
| (Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#12 |
| |
| (Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#24 |
| |
| (Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#0 |

(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#6
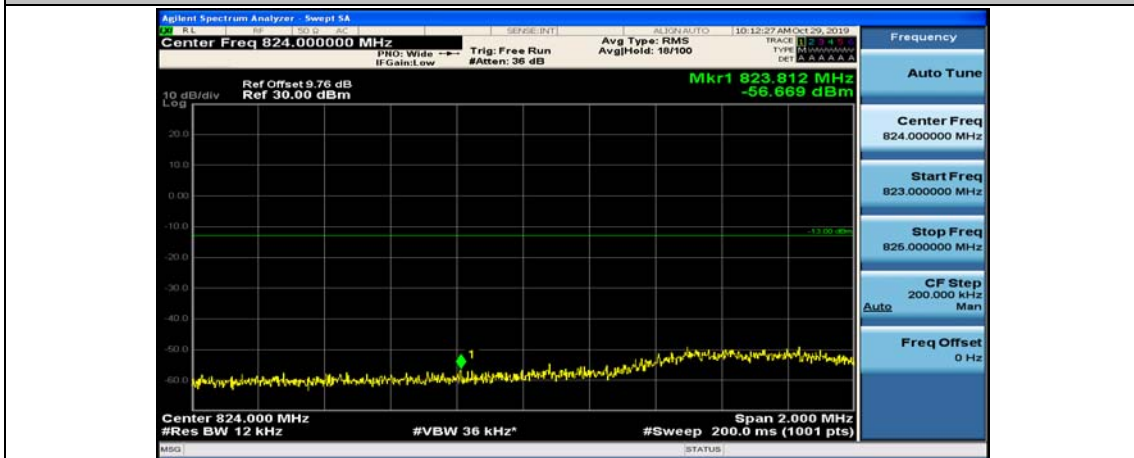

(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#13

(Channel Bandwidth: 5 MHz)_HCH_QPSK_25RB#0

(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#0

(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#12

(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#24