Agilent Spectrum Analyzer - Power Stat CCDF
LXI R L RF 50 Ω AC | SENSE:INT | ALIGN AUTO | 03:42:19 PM Sep 11, 2019
Center Freq 713.500000 MHz | Center Freq: 713.500000 MHz | Radio Std: None
Trig: Free Run | Counts:500 k/500 kpt
#IFGain:Low | #Atten: 36 dB

Frequency

Average Power

23.13 dBm

43.38 % at 0dB

Center Freq
713.500000 MHz

10.0 %	2.83 dB
1.0 %	5.18 dB
0.1 %	6.50 dB
0.01 %	6.86 dB
0.001 %	6.96 dB
0.0001 %	--- dB
Peak	6.97 dB
	30.10 dBm

Gaussian
Info BW 25.000 MHz

CF Step
5.000000 MHz
Auto   Man

Freq Offset
0 Hz

MSG | STATUS

(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#24

Agilent Spectrum Analyzer - Power Stat CCDF
LXI R L RF 50 Ω AC | SENSE:INT | ALIGN AUTO | 03:42:23 PM Sep 11, 2019
Center Freq 713.500000 MHz | Center Freq: 713.500000 MHz | Radio Std: None
Trig: Free Run | Counts:500 k/500 kpt
#IFGain:Low | #Atten: 36 dB

Frequency

Average Power

22.97 dBm

44.06 % at 0dB

Center Freq
713.500000 MHz

10.0 %	2.76 dB
1.0 %	5.05 dB
0.1 %	6.01 dB
0.01 %	6.53 dB
0.001 %	6.68 dB
0.0001 %	--- dB
Peak	6.74 dB
	29.71 dBm

Gaussian
Info BW 25.000 MHz

CF Step
5.000000 MHz
Auto   Man

Freq Offset
0 Hz

MSG | STATUS

(Channel Bandwidth: 5 MHz)_HCH_16QAM_12RB#0

Agilent Spectrum Analyzer - Power Stat CCDF
LXI R L RF 50 Ω AC | SENSE:INT | ALIGN AUTO | 03:42:48 PM Sep 11, 2019
Center Freq 713.500000 MHz | Center Freq: 713.500000 MHz | Radio Std: None
Trig: Free Run | Counts:500 k/500 kpt
#IFGain:Low | #Atten: 36 dB

Frequency

Average Power

21.83 dBm

42.81 % at 0dB

Center Freq
713.500000 MHz

10.0 %	2.93 dB
1.0 %	5.19 dB
0.1 %	6.64 dB
0.01 %	7.47 dB
0.001 %	7.92 dB
0.0001 %	--- dB
Peak	8.02 dB
	29.85 dBm

Gaussian
Info BW 25.000 MHz

CF Step
5.000000 MHz
Auto   Man

Freq Offset
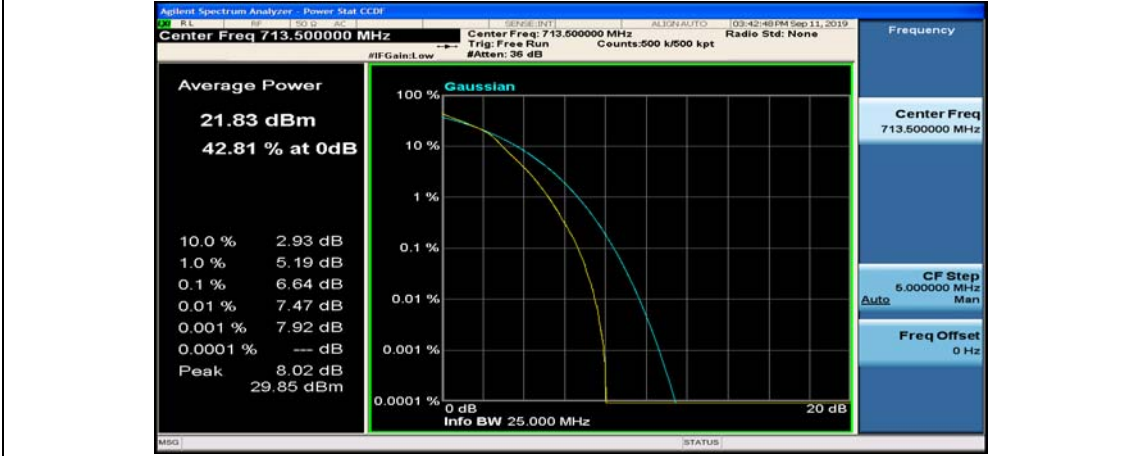0 Hz

MSG | STATUS

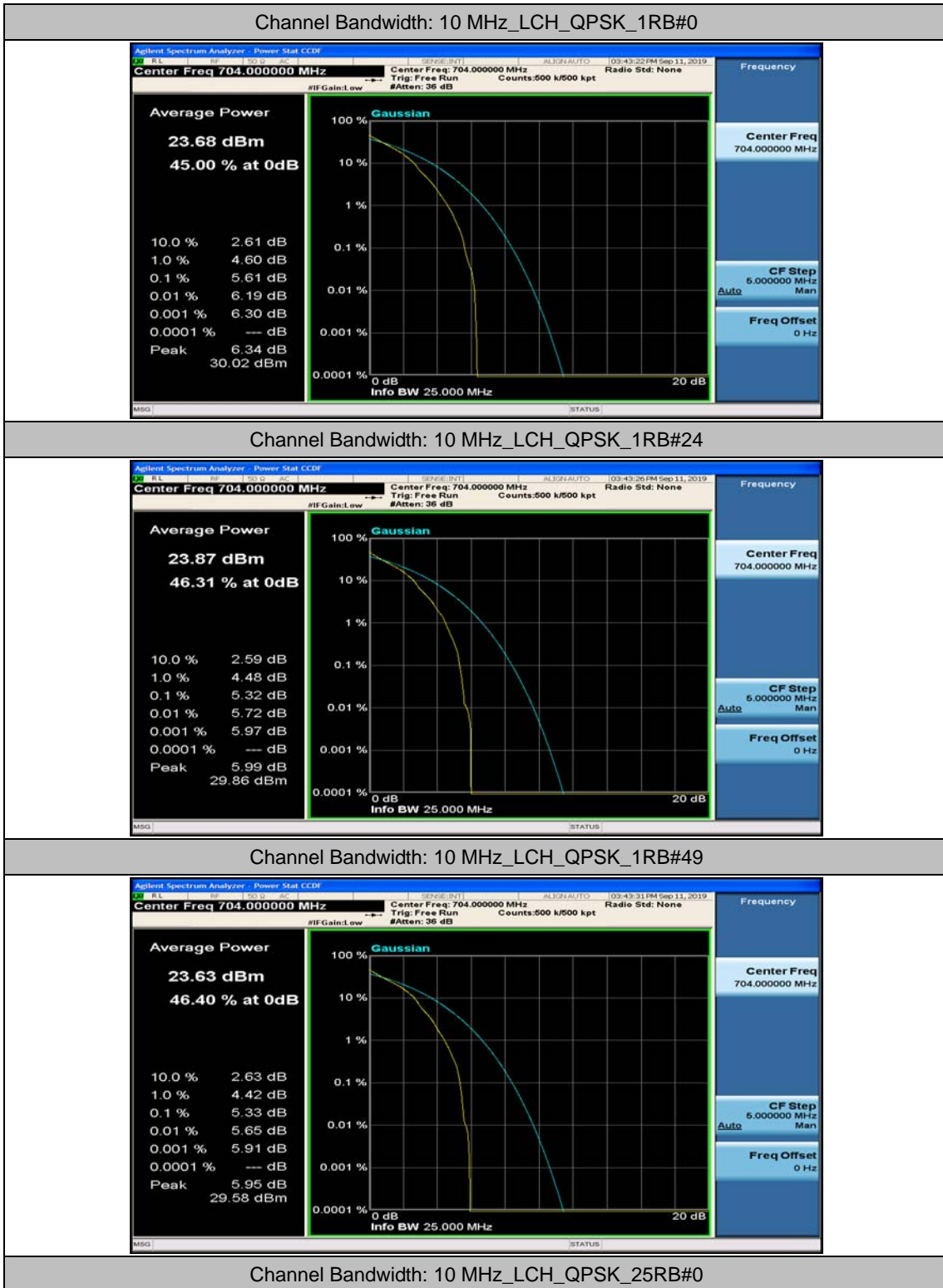**(Channel Bandwidth: 5 MHz)_HCH_16QAM_12RB#6**

(Channel Bandwidth: 5 MHz)_HCH_16QAM_12RB#13

(Channel Bandwidth: 5 MHz)_HCH_16QAM_25RB#0

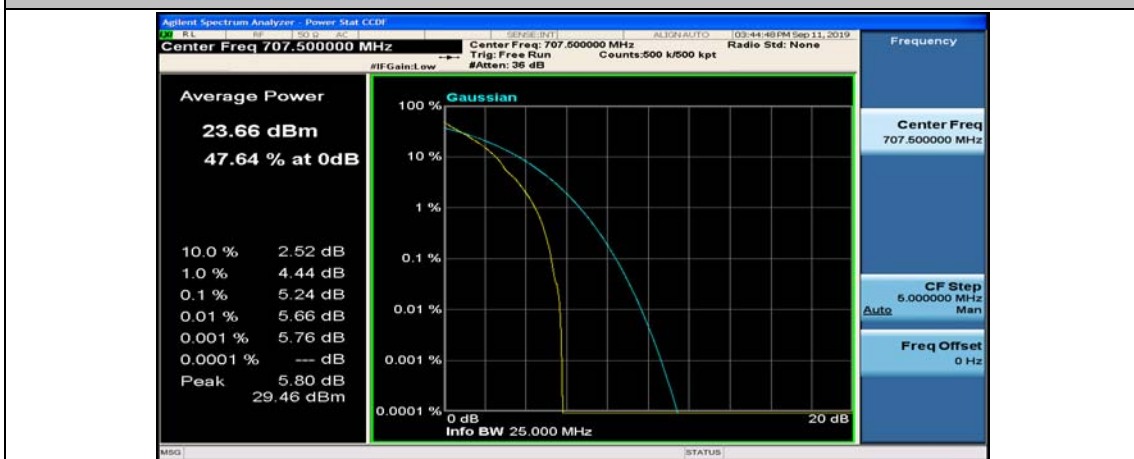## Channel Bandwidth: 10 MHz

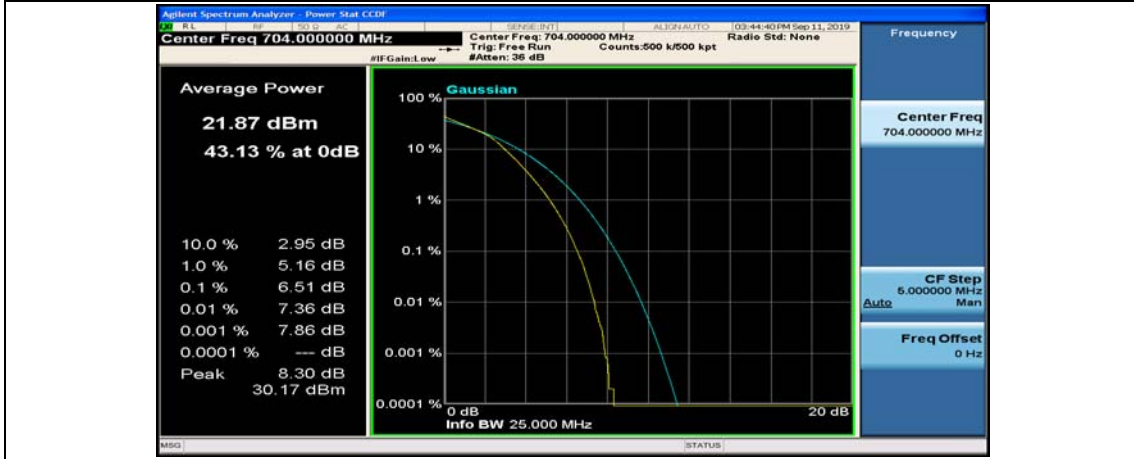| Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#0 |
|---|
| |
| Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#24 |
| |
| Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#49 |
| |
| Channel Bandwidth: 10 MHz_LCH_QPSK_25RB#0 |

Agilent Spectrum Analyzer - Power Stat CCDF
Center Freq 704.000000 MHz
Center Freq: 704.000000 MHz   Trig: Free Run   Counts:500 k/500 kpt   Radio Std: None
#IFGain:Low   #Atten: 36 dB

Average Power
22.82 dBm
45.54 % at 0dB

10.0 %	2.45 dB
1.0 %	4.58 dB
0.1 %	5.86 dB
0.01 %	6.53 dB
0.001 %	7.00 dB
0.0001 %	--- dB
Peak	7.33 dB
	30.15 dBm

Gaussian
Info BW 25.000 MHz

Frequency
Center Freq 704.000000 MHz
CF Step 5.000000 MHz
Freq Offset 0 Hz

Channel Bandwidth: 10 MHz_LCH_QPSK_25RB#12

Agilent Spectrum Analyzer - Power Stat CCDF
Center Freq 704.000000 MHz
Center Freq: 704.000000 MHz   Trig: Free Run   Counts:500 k/500 kpt   Radio Std: None
#IFGain:Low   #Atten: 36 dB

Average Power
22.72 dBm
45.98 % at 0dB

10.0 %	2.45 dB
1.0 %	4.52 dB
0.1 %	5.78 dB
0.01 %	6.47 dB
0.001 %	6.89 dB
0.0001 %	--- dB
Peak	7.16 dB
	29.88 dBm

Gaussian
Info BW 25.000 MHz

Frequency
Center Freq 704.000000 MHz
CF Step 5.000000 MHz
Freq Offset 0 Hz

Channel Bandwidth: 10 MHz_LCH_QPSK_25RB#25

Agilent Spectrum Analyzer - Power Stat CCDF
Center Freq 704.000000 MHz
Center Freq: 704.000000 MHz   Trig: Free Run   Counts:500 k/500 kpt   Radio Std: None
#IFGain:Low   #Atten: 36 dB

Average Power
22.84 dBm
45.55 % at 0dB

10.0 %	2.47 dB
1.0 %	4.52 dB
0.1 %	5.71 dB
0.01 %	6.33 dB
0.001 %	6.69 dB
0.0001 %	--- dB
Peak	6.81 dB
	29.65 dBm

Gaussian
Info BW 25.000 MHz

Frequency
Center Freq 704.000000 MHz
CF Step 5.000000 MHz
Freq Offset 0 Hz

Channel Bandwidth: 10 MHz_LCH_QPSK_50RB#0

Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#0

Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#24

Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#49

Channel Bandwidth: 10 MHz_MCH_QPSK_25RB#0

Channel Bandwidth: 10 MHz_MCH_QPSK_25RB#12

Channel Bandwidth: 10 MHz_MCH_QPSK_25RB#25
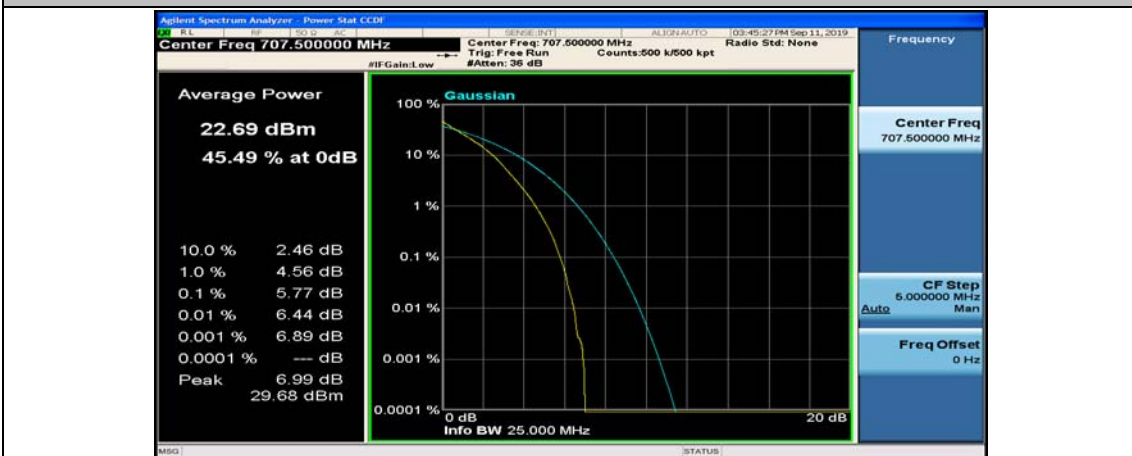
Channel Bandwidth: 10 MHz_MCH_QPSK_50RB#0

Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#0
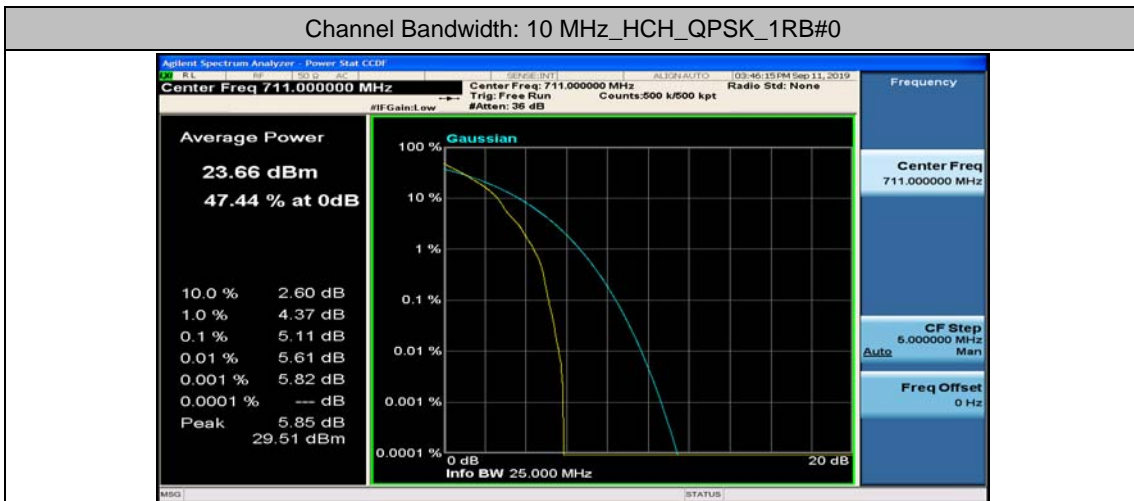
Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#24

Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#49
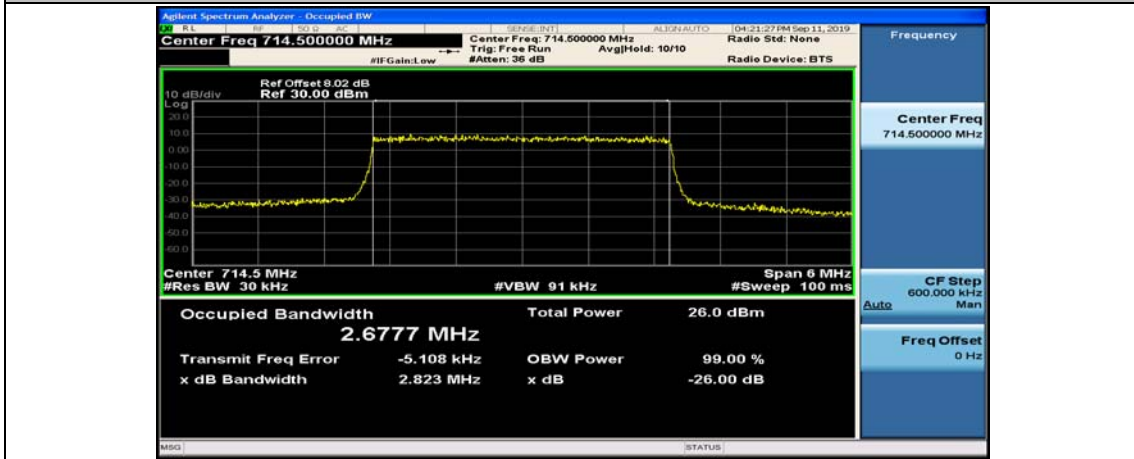

Channel Bandwidth: 10 MHz_HCH_QPSK_25RB#0

Channel Bandwidth: 10 MHz_HCH_QPSK_25RB#12

Channel Bandwidth: 10 MHz_HCH_QPSK_25RB#25

Channel Bandwidth: 10 MHz_HCH_QPSK_50RB#0
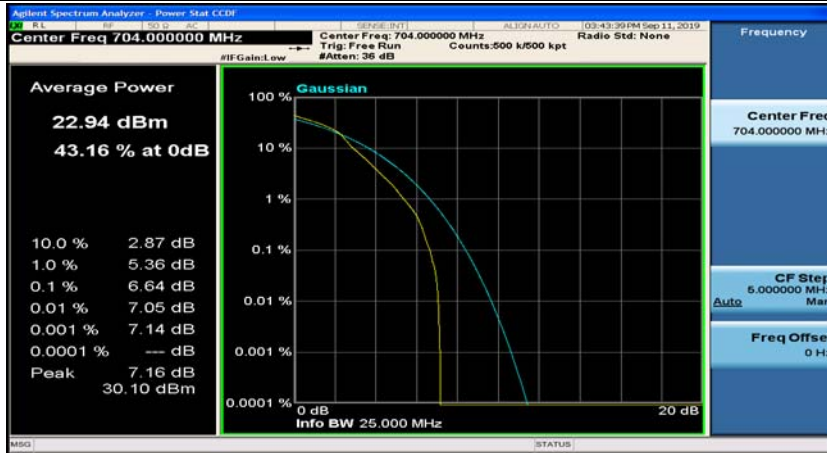
Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#0
Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#24
Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#49
Channel Bandwidth: 10 MHz_LCH_16QAM_25RB#0

Channel Bandwidth: 10 MHz_LCH_16QAM_25RB#12
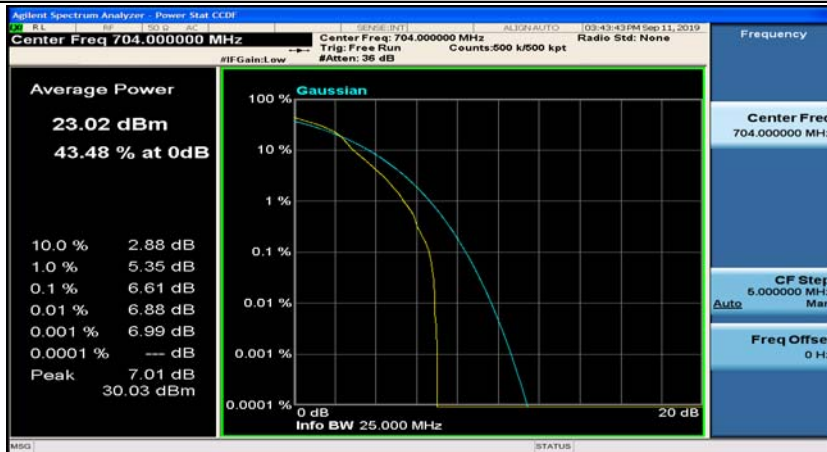
Channel Bandwidth: 10 MHz_LCH_16QAM_25RB#25
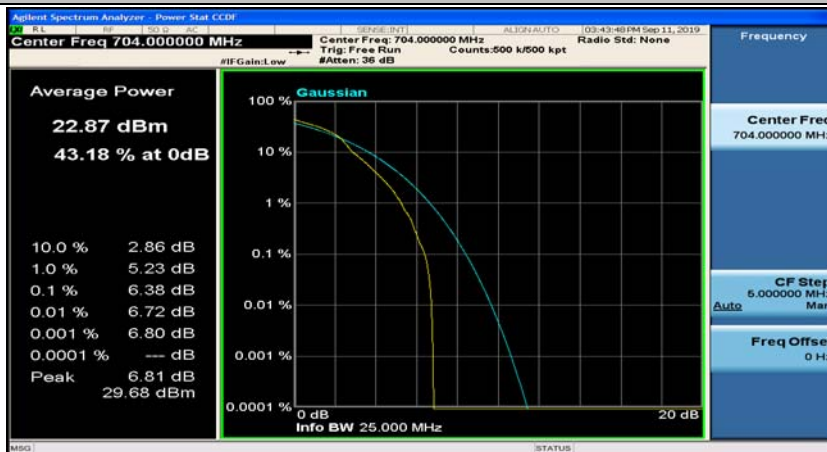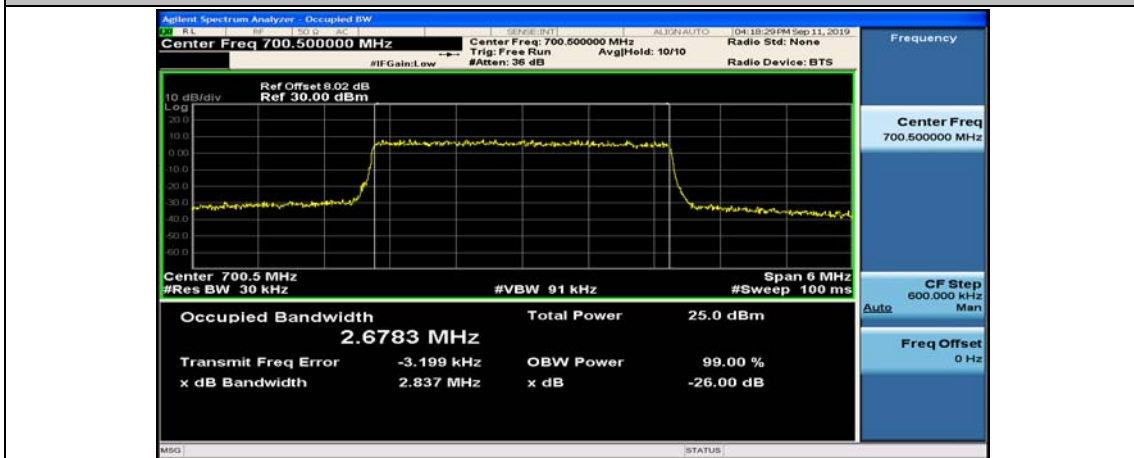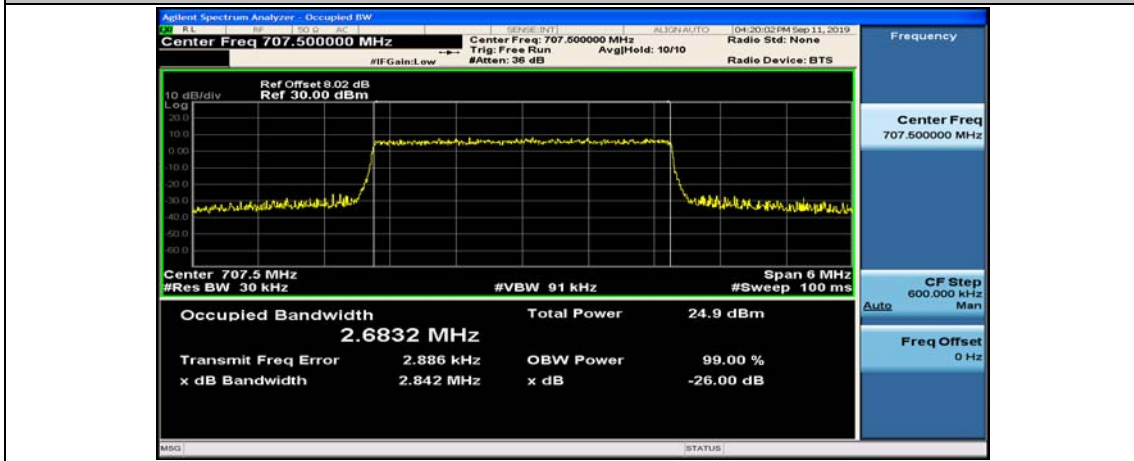

Channel Bandwidth: 10 MHz_LCH_16QAM_50RB#0

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
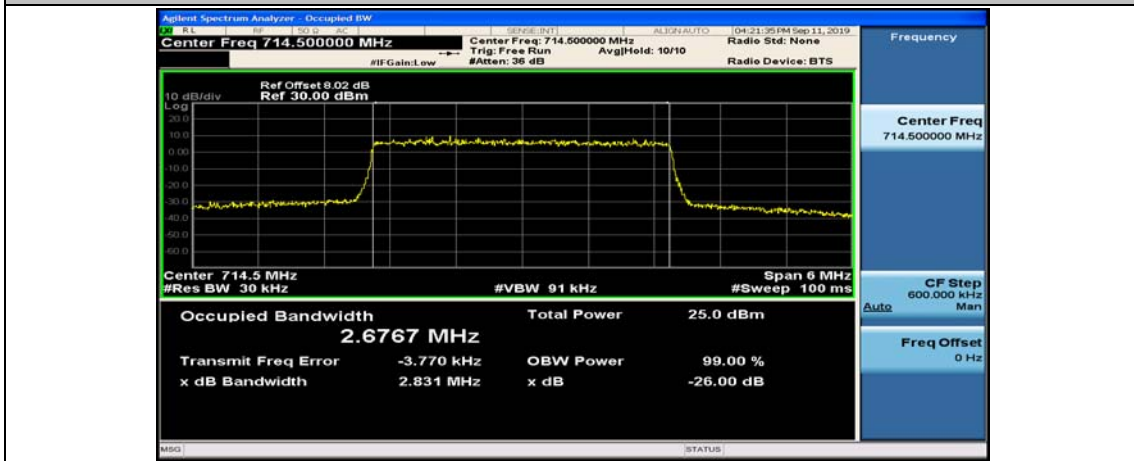

Channel Bandwidth: 10 MHz_MCH_16QAM_25RB#12

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
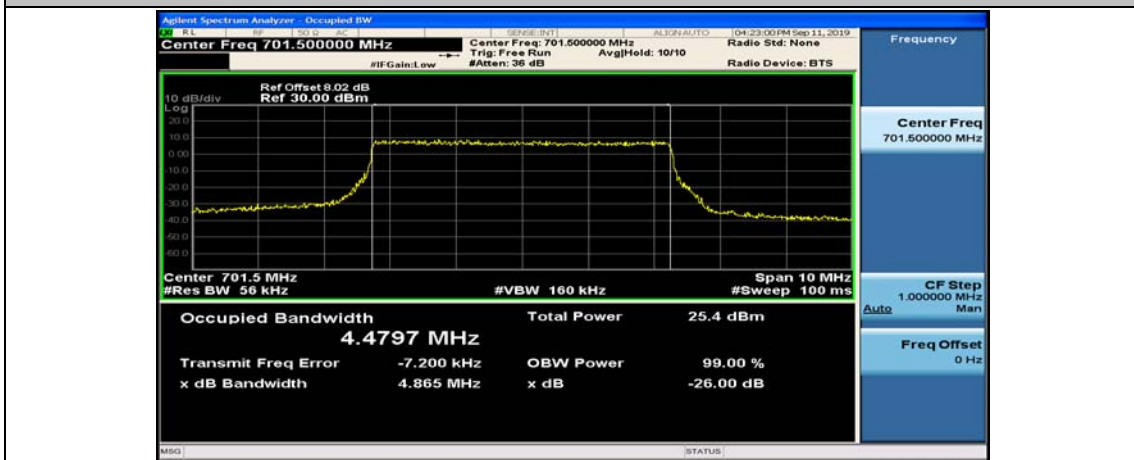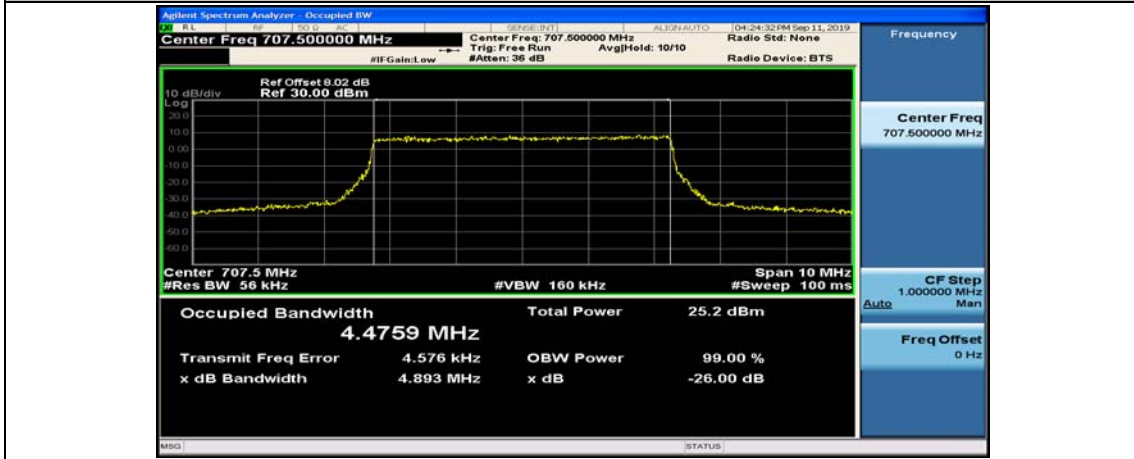

Channel Bandwidth: 10 MHz_HCH_16QAM_25RB#0

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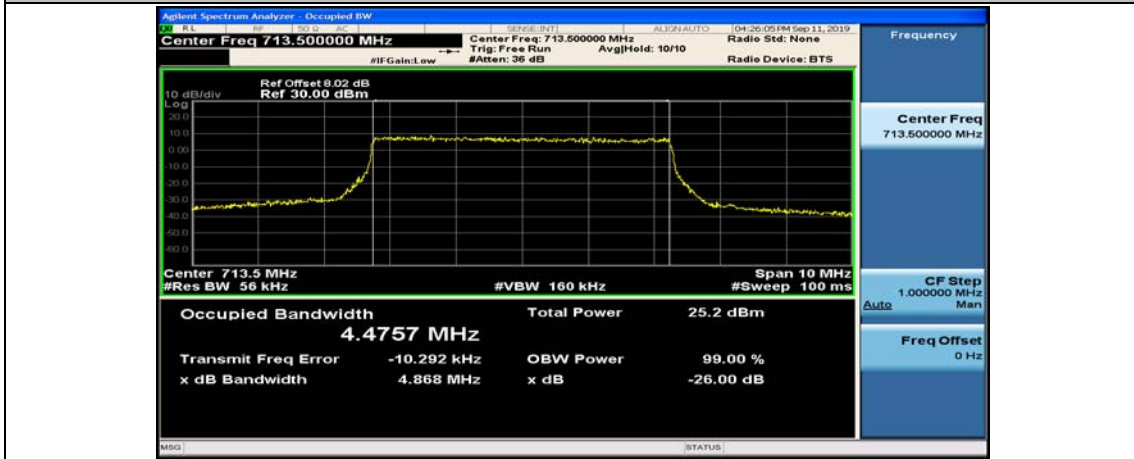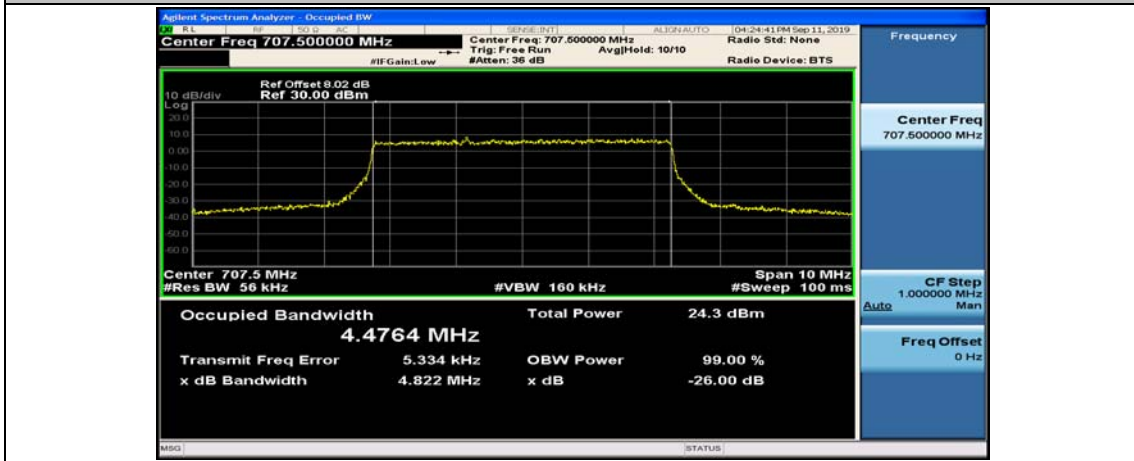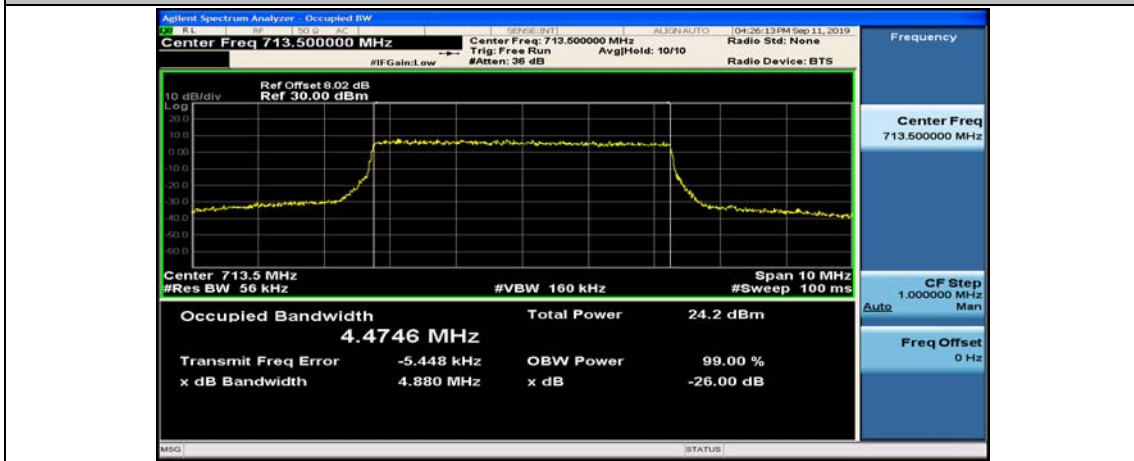
Channel Bandwidth: 10 MHz_HCH_16QAM_25RB#25

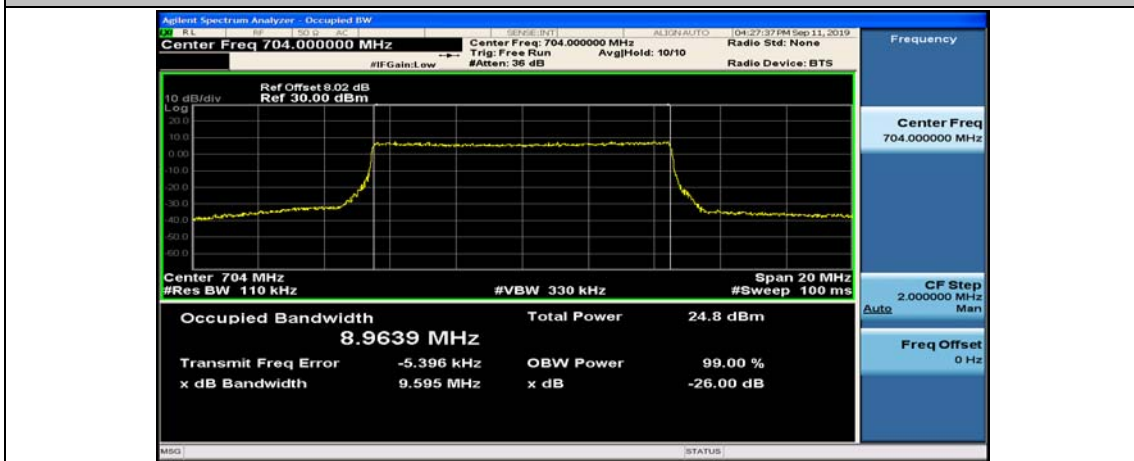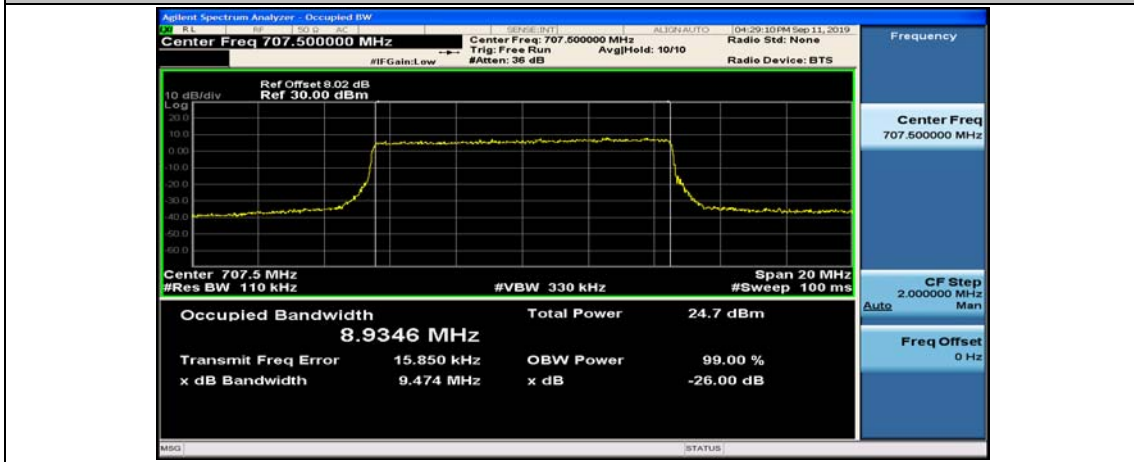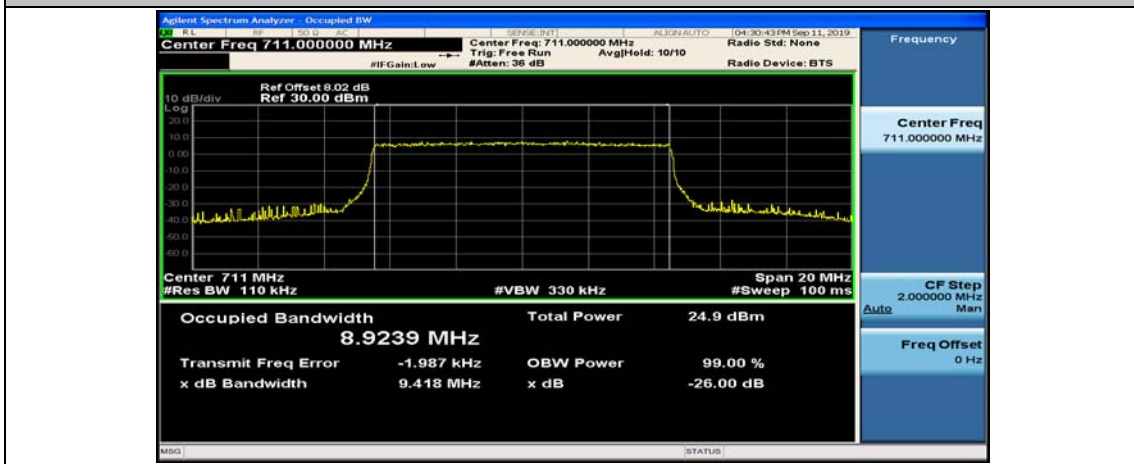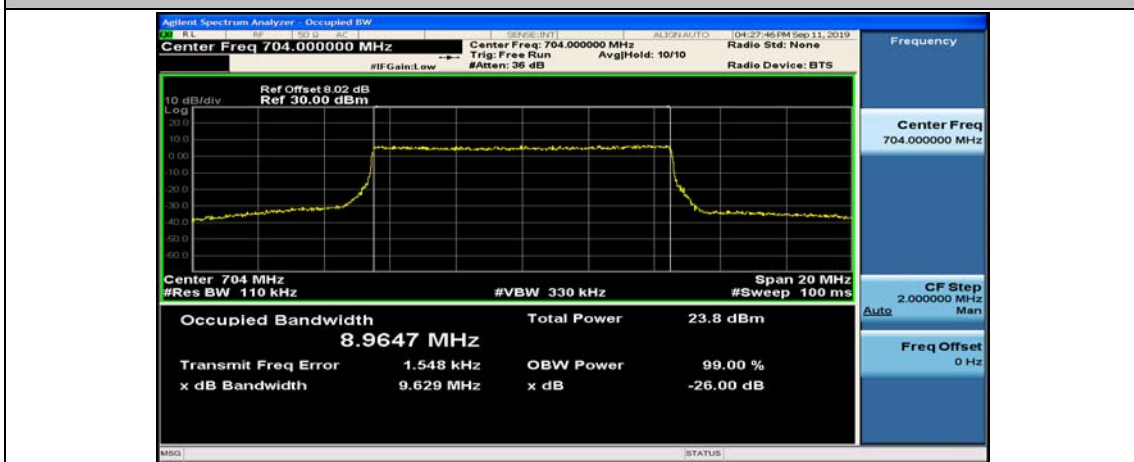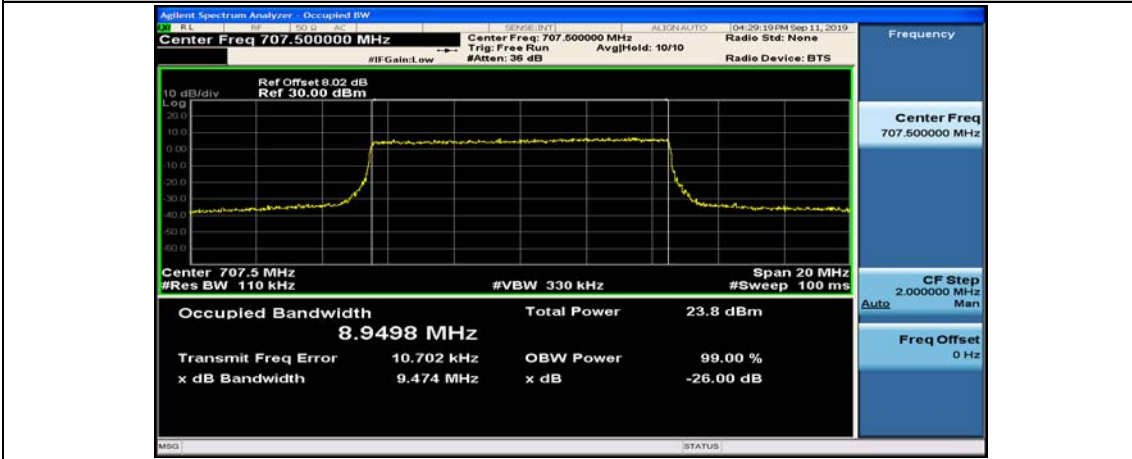Channel Bandwidth: 10 MHz_HCH_16QAM_50RB#0
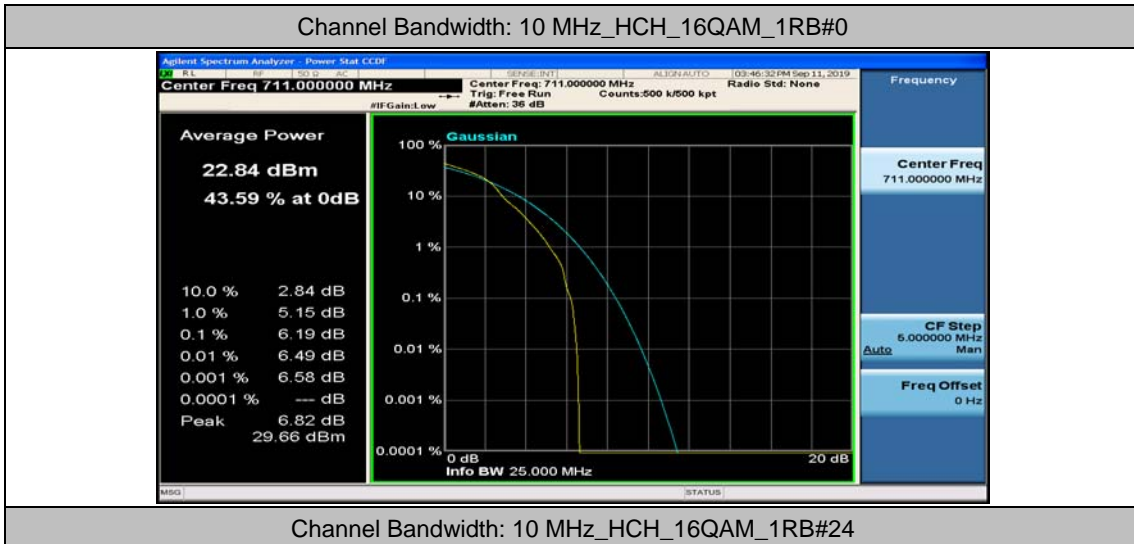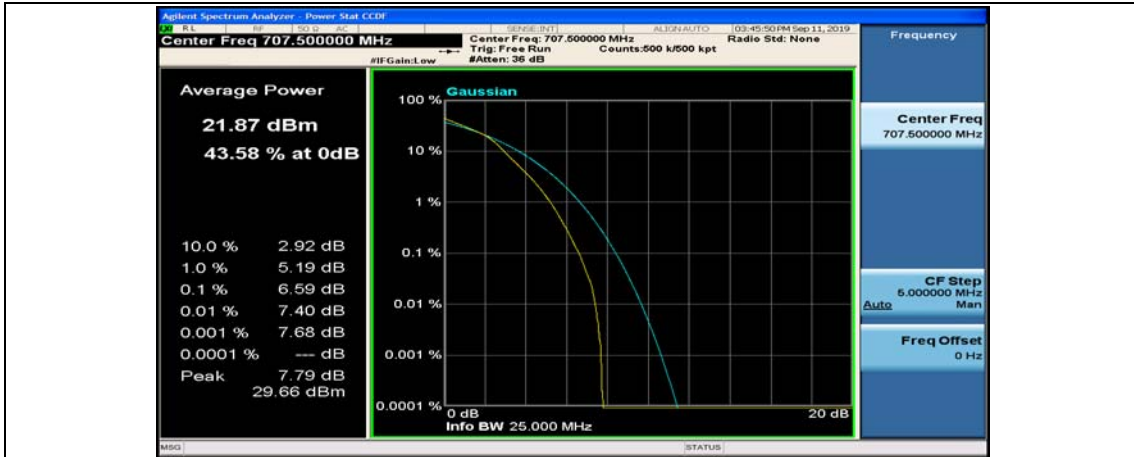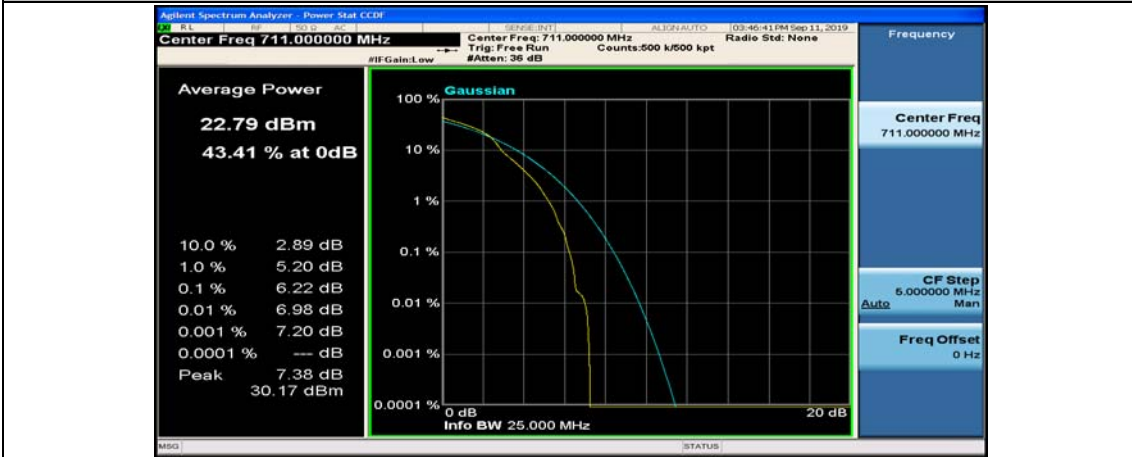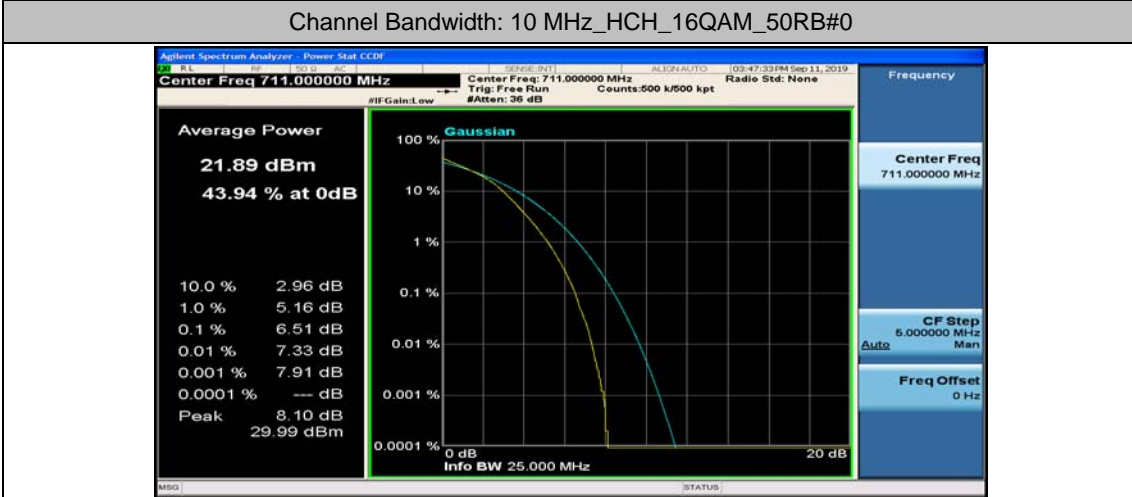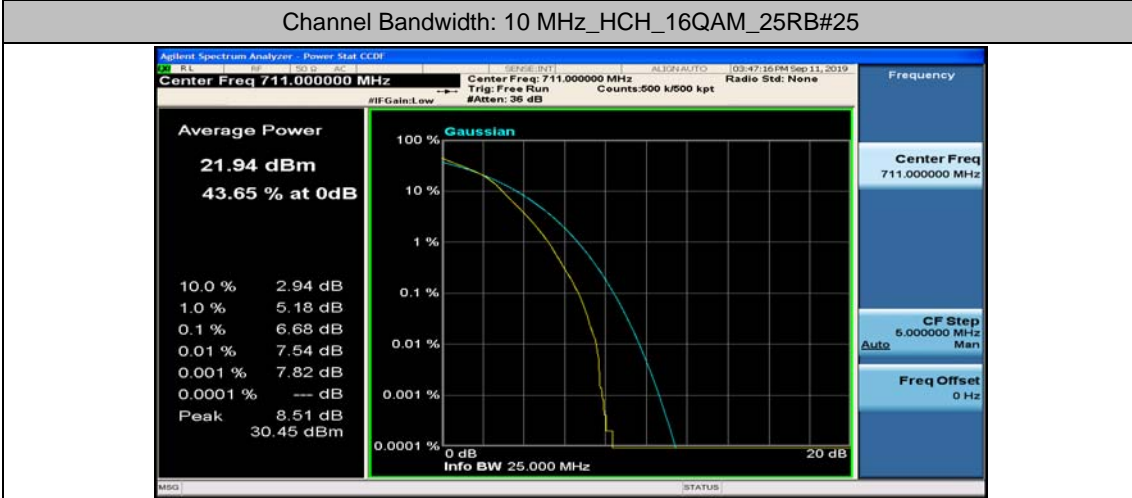
Appendix C: 26dB Bandwidth and Occupied Bandwidth

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	1.0779	1.231	PASS
	MCH	6	0	1.0739	1.228	PASS
	HCH	6	0	1.0752	1.241	PASS
16QAM	LCH	6	0	1.0804	1.256	PASS
	MCH	6	0	1.0772	1.240	PASS
	HCH	6	0	1.0762	1.221	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	2.6810	2.827	PASS
	MCH	15	0	2.6805	2.827	PASS
	HCH	15	0	2.6777	2.823	PASS
16QAM	LCH	15	0	2.6783	2.837	PASS
	MCH	15	0	2.6832	2.842	PASS
	HCH	15	0	2.6767	2.831	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	4.4797	4.865	PASS
	MCH	25	0	4.4759	4.893	PASS
	HCH	25	0	4.4757	4.868	PASS
16QAM	LCH	25	0	4.4855	4.907	PASS
	MCH	25	0	4.4764	4.822	PASS
	HCH	25	0	4.4746	4.880	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	8.9639	9.595	PASS
	MCH	50	0	8.9346	9.474	PASS
	HCH	50	0	8.9239	9.418	PASS
16QAM	LCH	50	0	8.9647	9.629	PASS
	MCH	50	0	8.9498	9.474	PASS
	HCH	50	0	8.9162	9.460	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
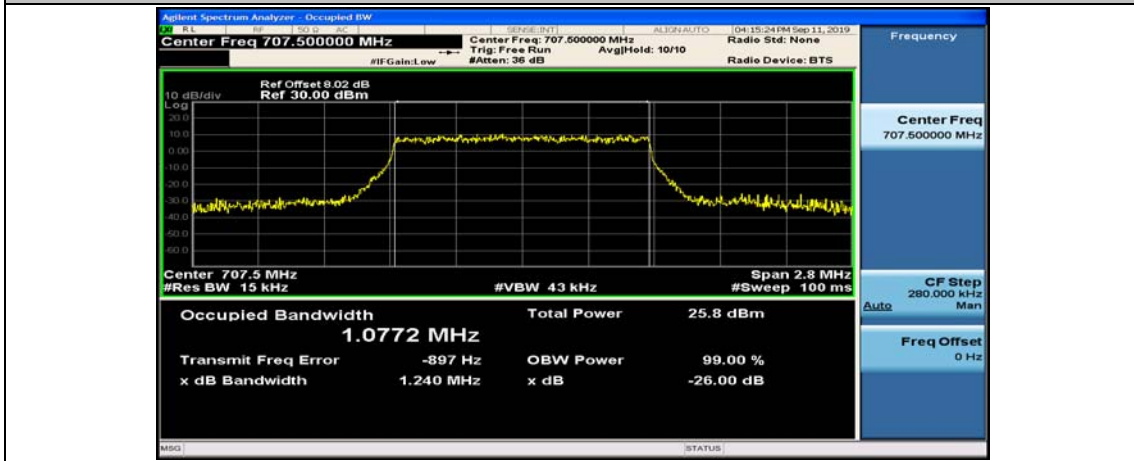
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_6RB#0
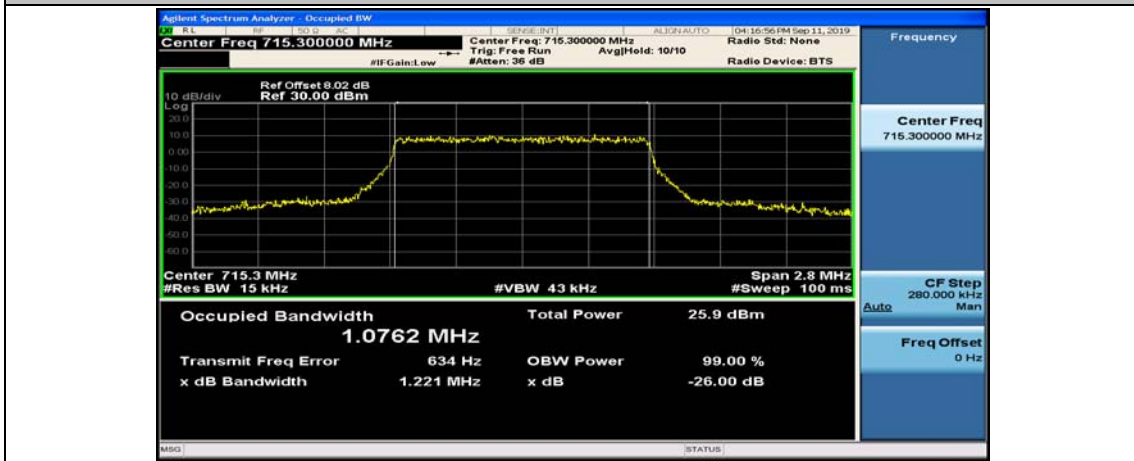
Channel Bandwidth: 3 MHz

(Channel Bandwidth: 3 MHz)_LCH_QPSK_15RB#0

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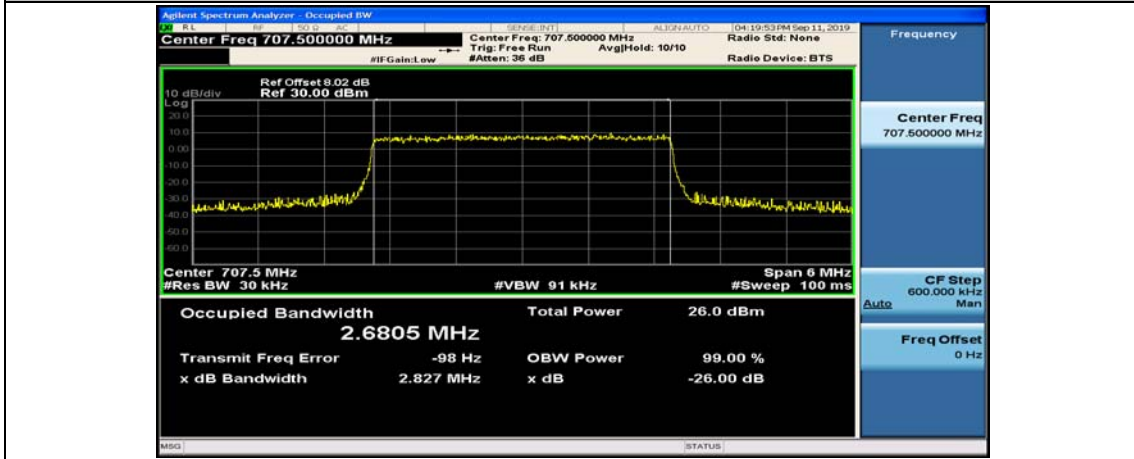
(Channel Bandwidth: 3 MHz)_HCH_QPSK_15RB#0

(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
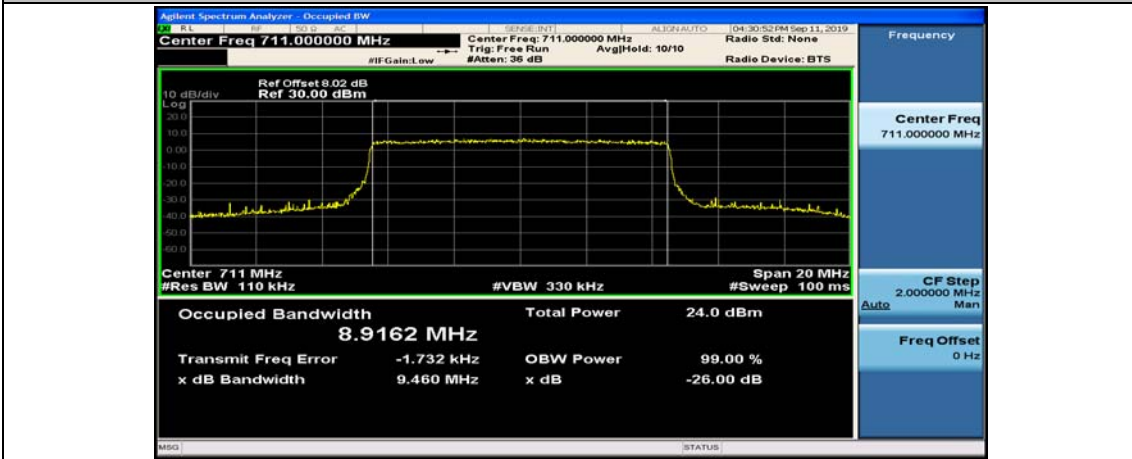
Appendix D: Band Edge

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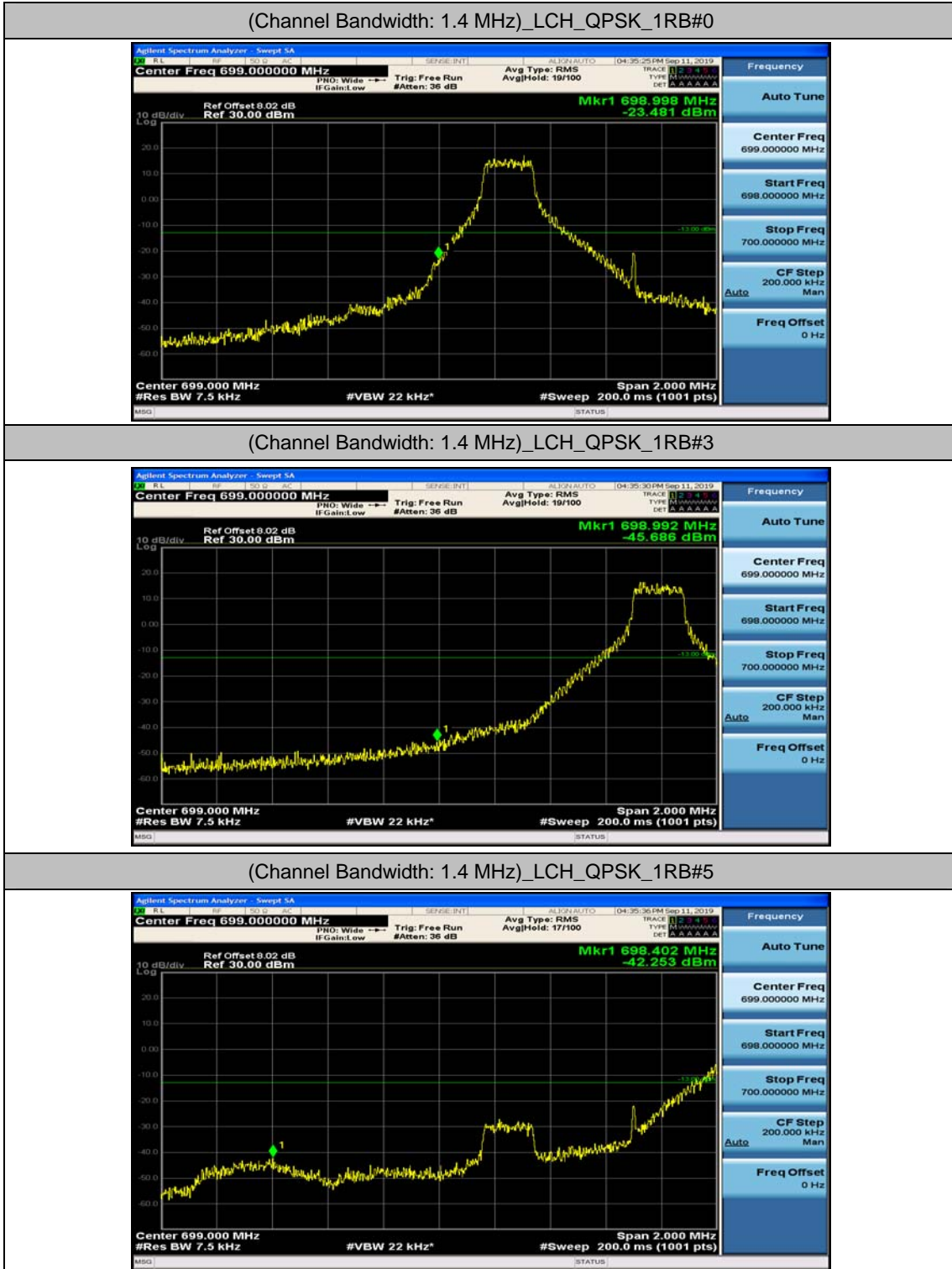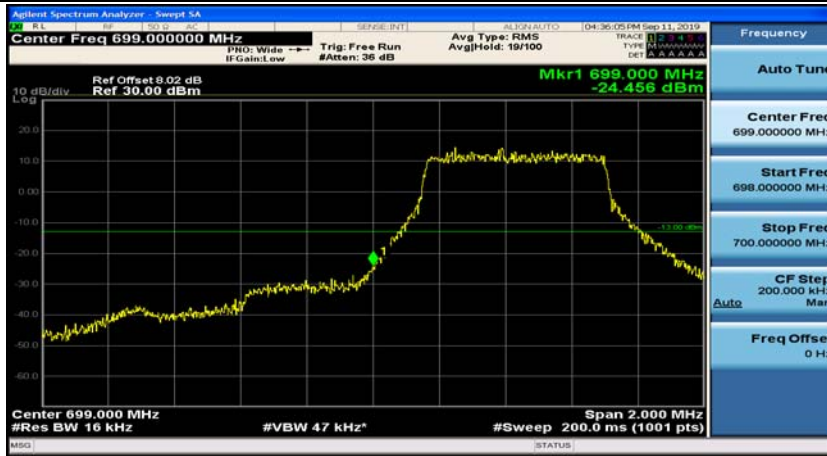
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_3RB#0
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_3RB#2
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_3RB#3
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_6RB#0

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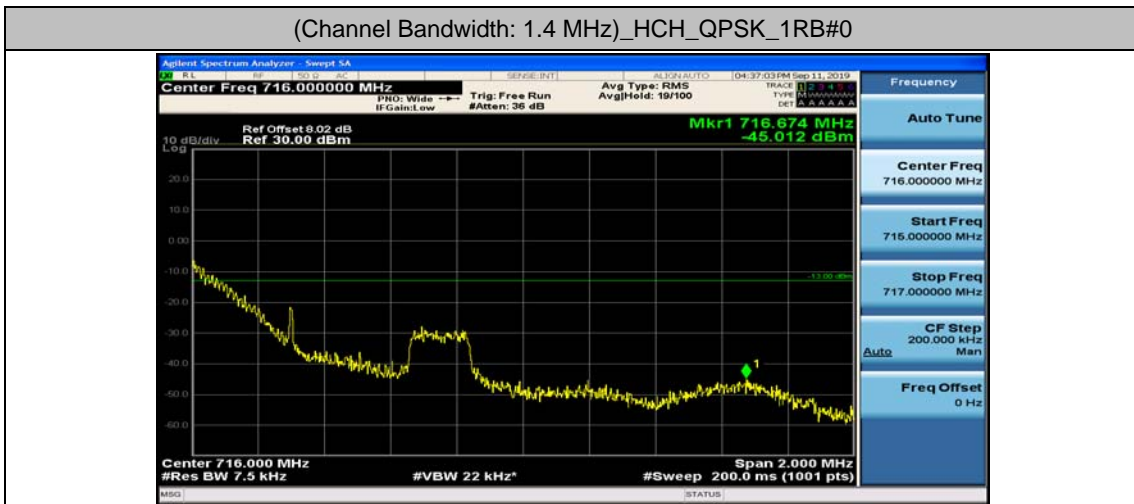
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#3
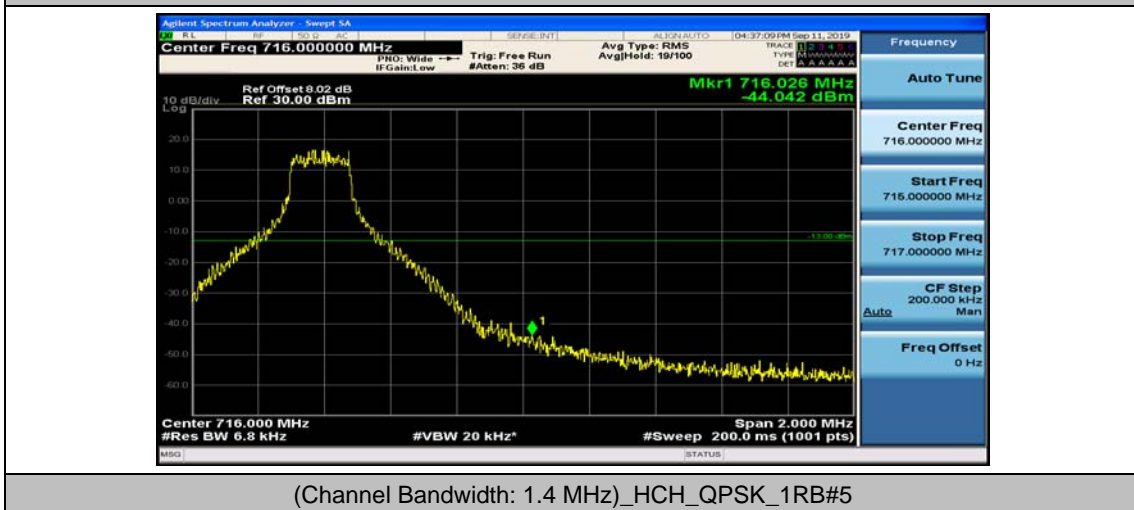
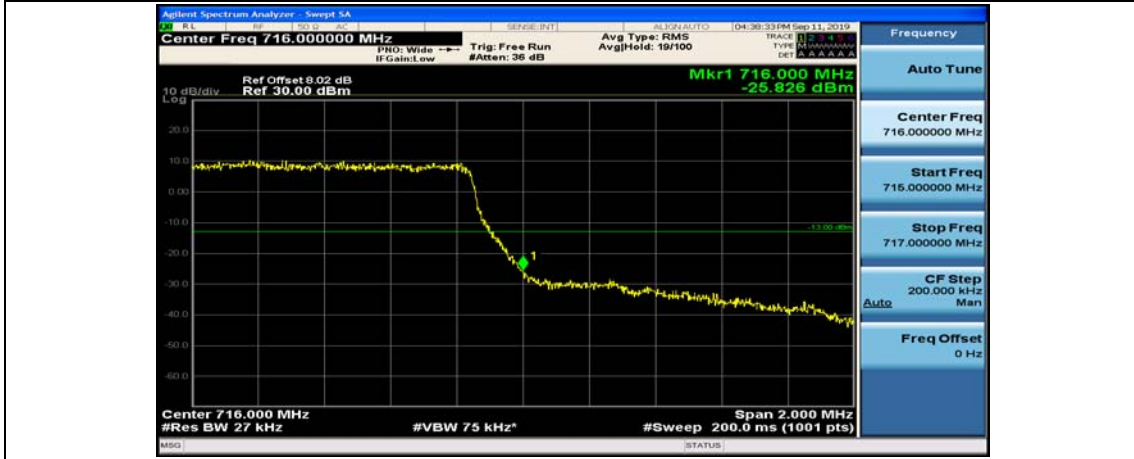| (Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#5 |
|---|
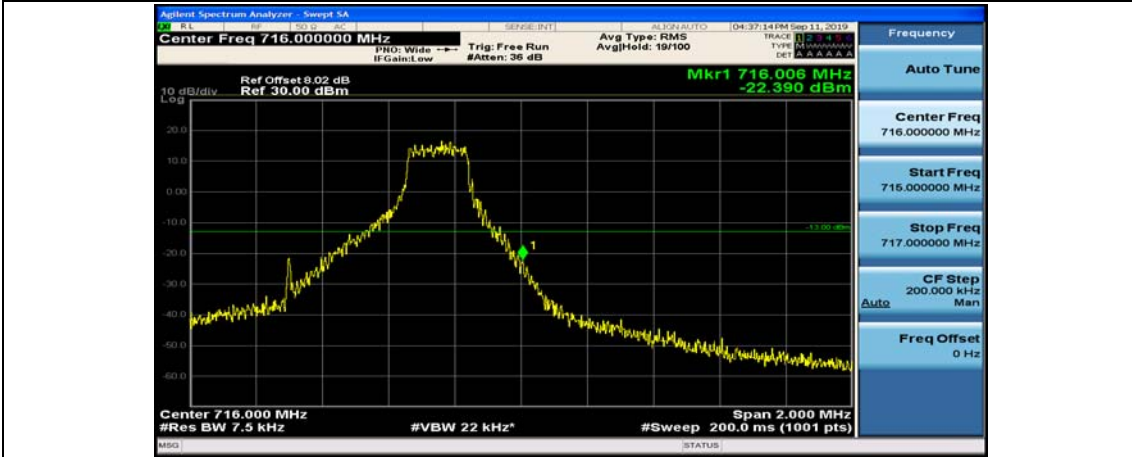
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_3RB#0

(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_3RB#2

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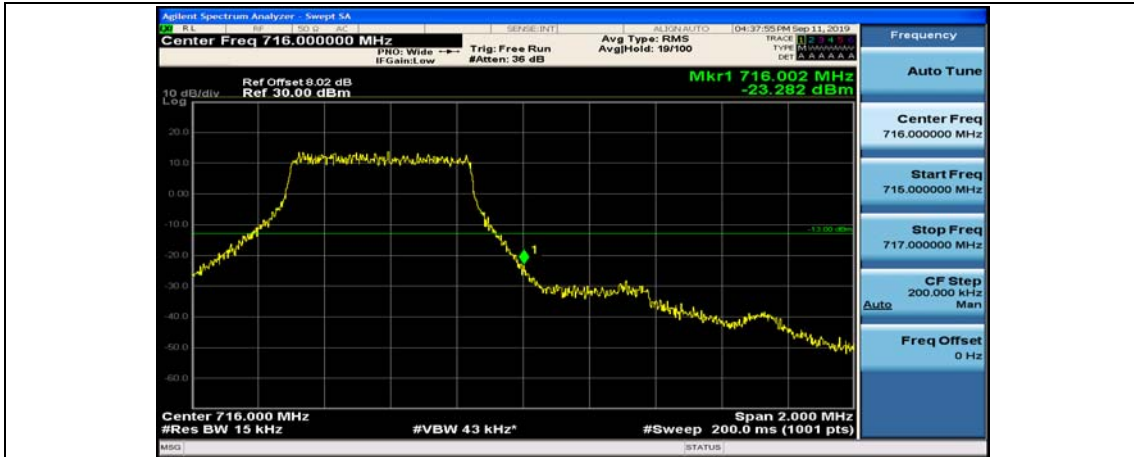
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_6RB#0

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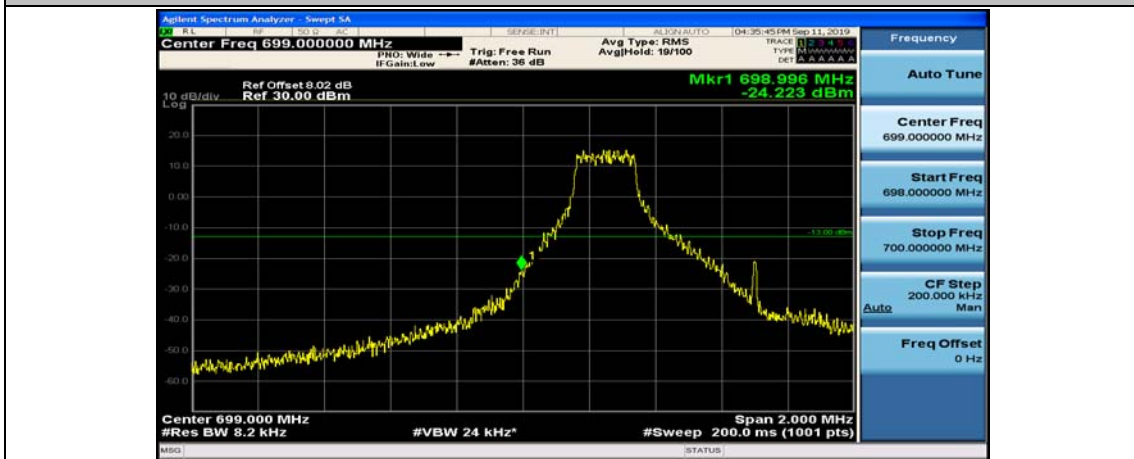
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#3
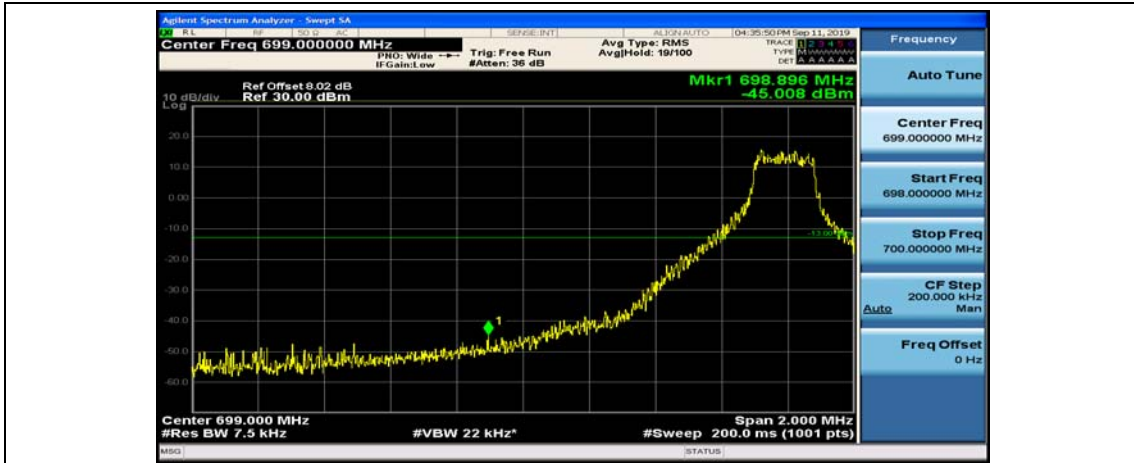
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#5

(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_3RB#0

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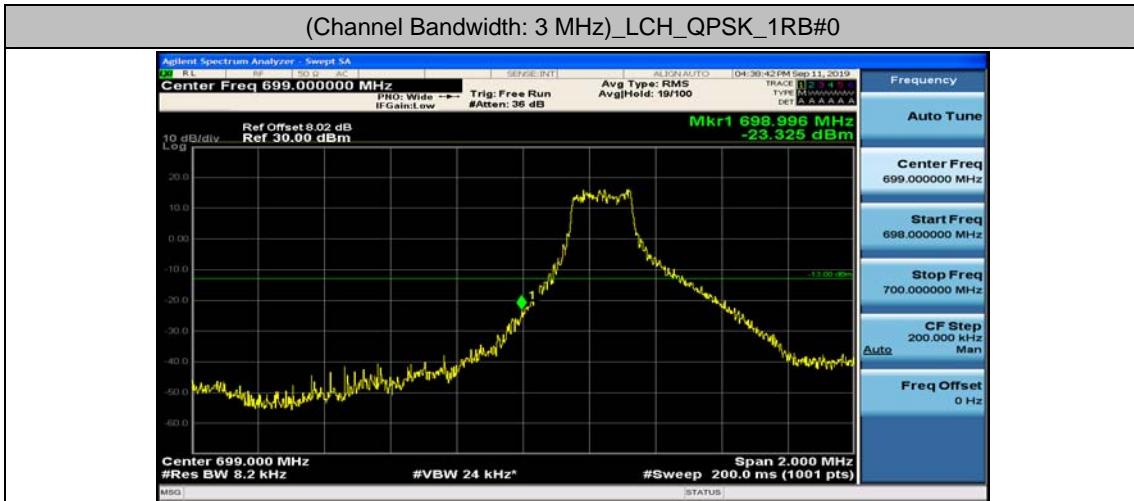
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_3RB#3
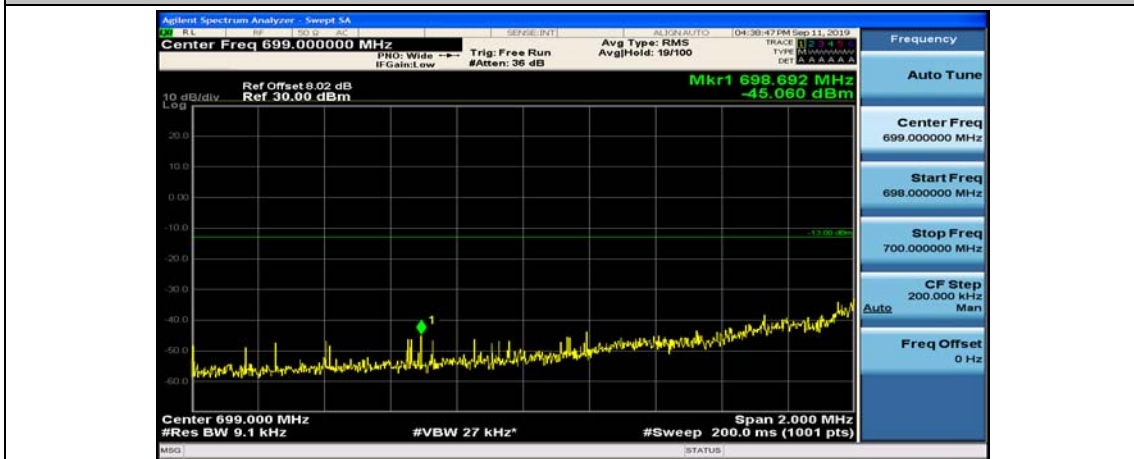

(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_6RB#0

(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
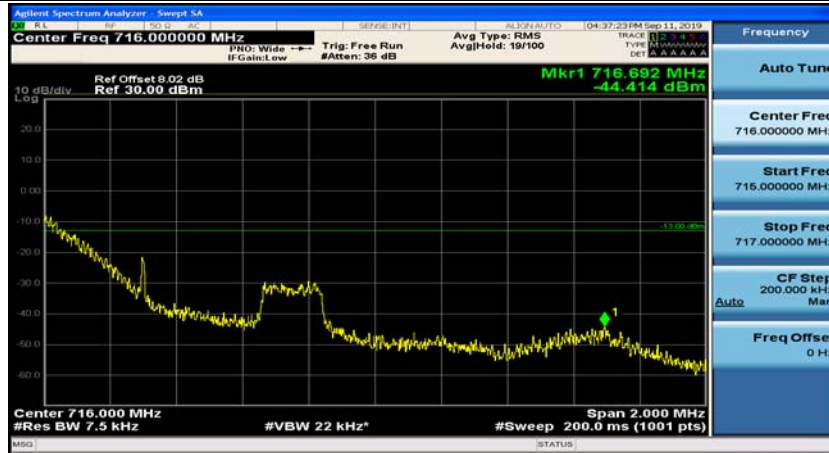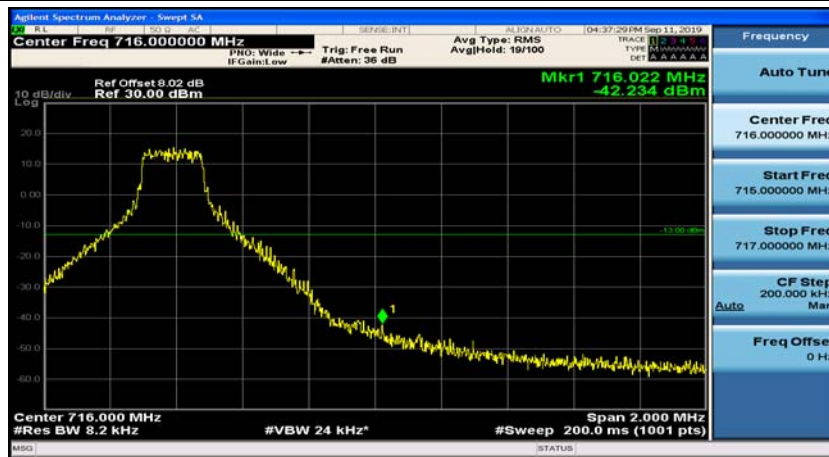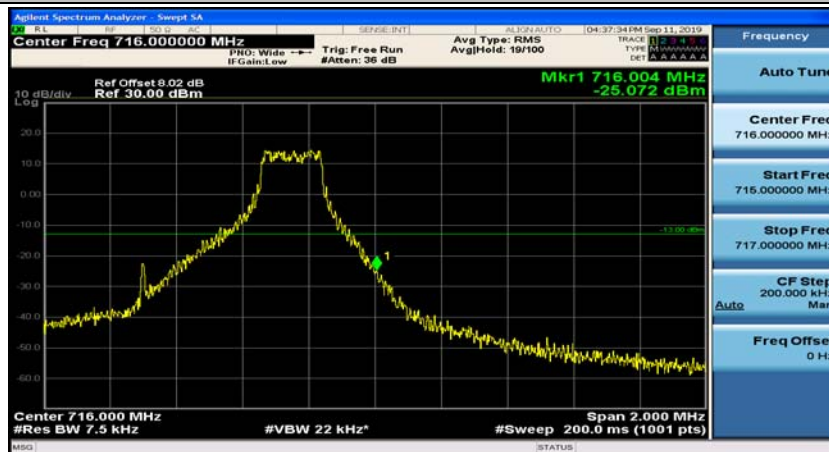
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_3RB#2

(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_3RB#3

(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_6RB#0

Channel Bandwidth: 3 MHz

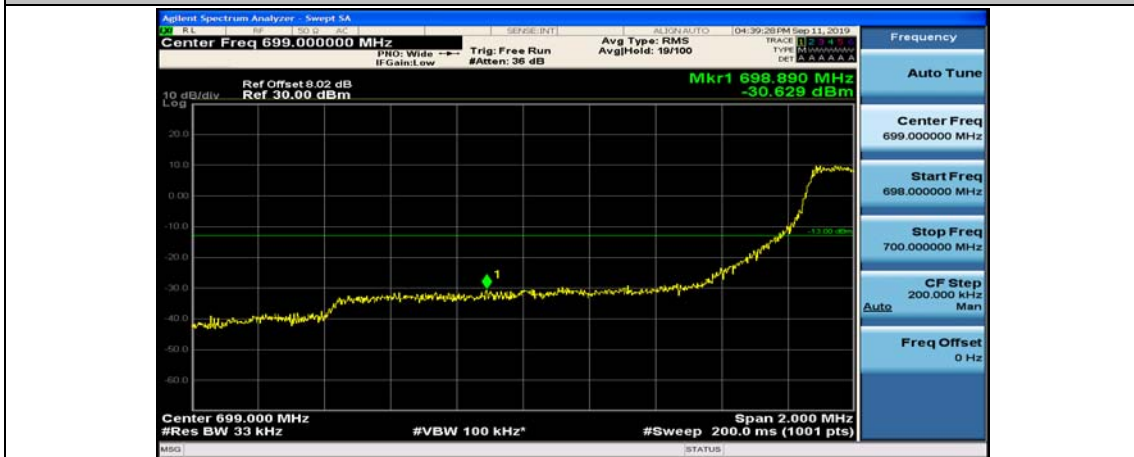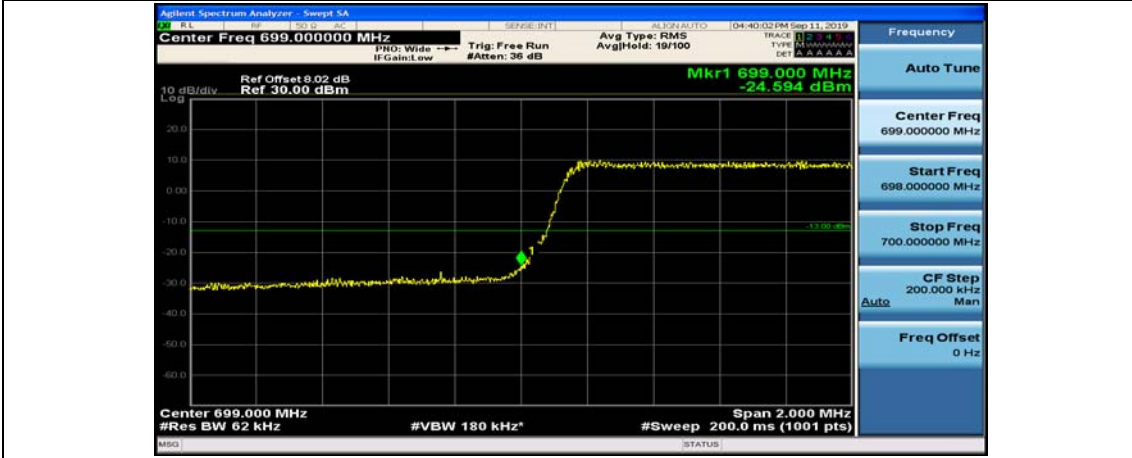| (Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#0 |
|---|
| |
| (Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#7 |
| |
| (Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#14 |
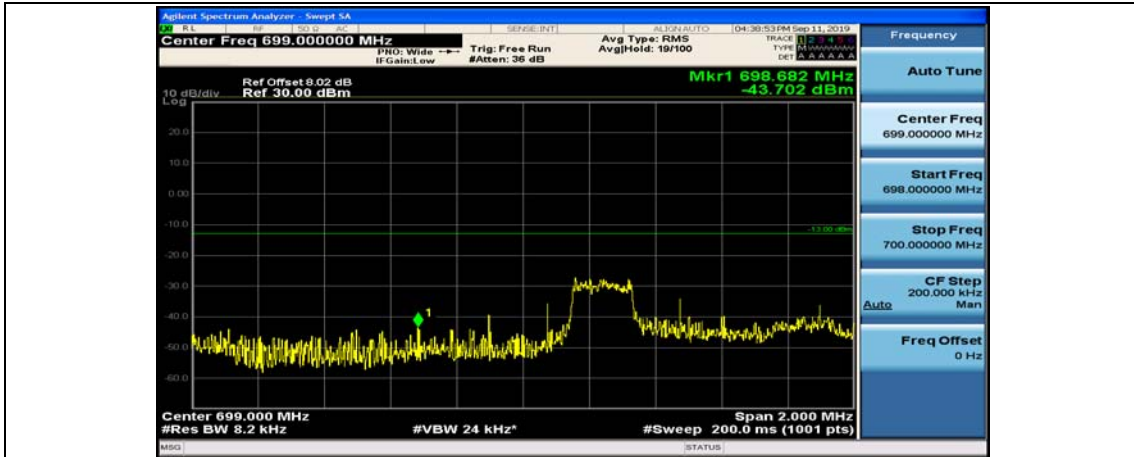
(Channel Bandwidth: 3 MHz)_LCH_QPSK_8RB#0

(Channel Bandwidth: 3 MHz)_LCH_QPSK_8RB#4

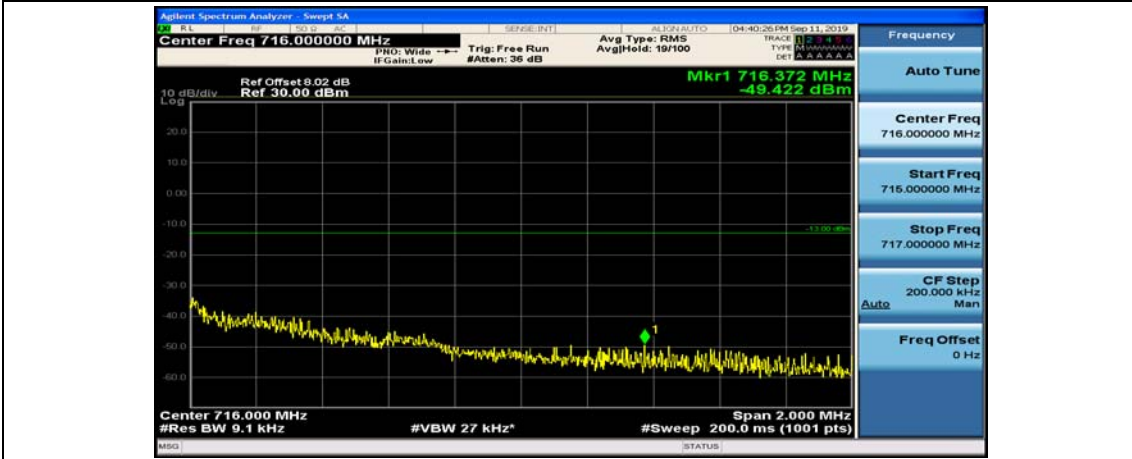(Channel Bandwidth: 3 MHz)_LCH_QPSK_8RB#7

(Channel Bandwidth: 3 MHz)_LCH_QPSK_15RB#0

(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#0

(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#7

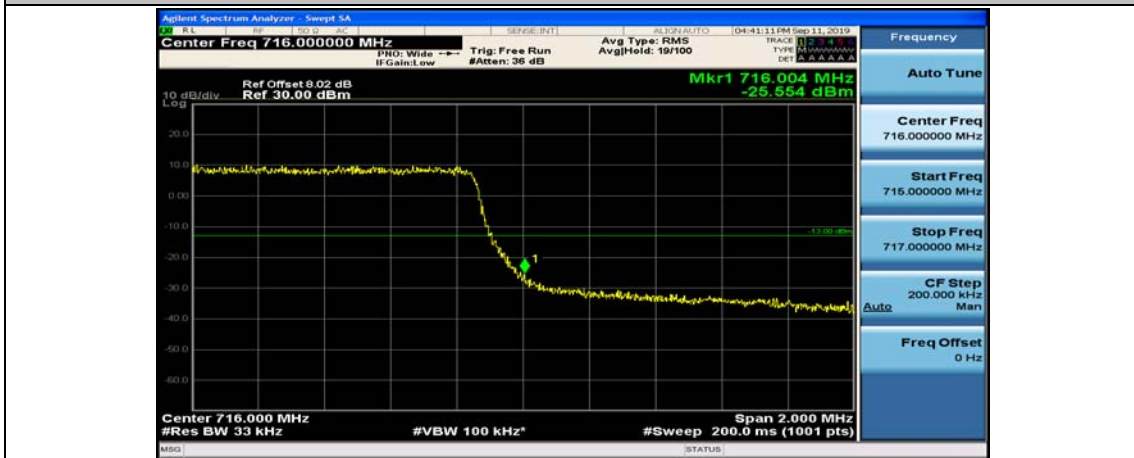(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#14

(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