

## Appendix for Band 13

### Appendix A: Average Power Output Data

#### Test Result

**Channel Bandwidth: 5 MHz**

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	23.78	PASS
		1	12	23.89	PASS
		1	24	23.85	PASS
		12	0	22.77	PASS
		12	6	22.80	PASS
		12	13	22.85	PASS
		25	0	22.73	PASS
	MCH	1	0	23.84	PASS
		1	12	23.60	PASS
		1	24	23.83	PASS
		12	0	22.87	PASS
		12	6	22.68	PASS
		12	13	22.78	PASS
		25	0	22.83	PASS
	HCH	1	0	23.96	PASS
		1	12	23.60	PASS
		1	24	23.95	PASS
		12	0	22.72	PASS
		12	6	22.71	PASS
		12	13	22.95	PASS
		25	0	22.88	PASS
16QAM	LCH	1	0	22.80	PASS
		1	12	22.99	PASS
		1	24	23.07	PASS
		12	0	21.73	PASS
		12	6	21.77	PASS
		12	13	21.86	PASS
		25	0	21.69	PASS
	MCH	1	0	22.92	PASS
		1	12	23.01	PASS
		1	24	23.05	PASS
		12	0	21.94	PASS
		12	6	21.94	PASS

		12	13	22.01	PASS
		25	0	21.86	PASS
	HCH	1	0	23.11	PASS
		1	12	22.93	PASS
		1	24	22.97	PASS
		12	0	21.83	PASS
		12	6	21.81	PASS
		12	13	21.89	PASS
		25	0	21.89	PASS

### Channel Bandwidth: 10 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	MCH	1	0	23.71	PASS
		1	24	23.22	PASS
		1	49	23.46	PASS
		25	0	22.75	PASS
		25	12	22.58	PASS
		25	25	22.55	PASS
		50	0	22.85	PASS
16QAM	MCH	1	0	22.81	PASS
		1	24	22.69	PASS
		1	49	22.93	PASS
		25	0	21.72	PASS
		25	12	21.70	PASS
		25	25	21.69	PASS
		50	0	21.81	PASS

## Appendix B: Peak-to-Average Ratio

### Test Result

**Channel Bandwidth: 5 MHz**

Channel Bandwidth: 5 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	LCH	1	0	2.79	<13	PASS
		1	12	3.07	<13	PASS
		1	24	3.80	<13	PASS
		12	0	3.66	<13	PASS
		12	6	3.85	<13	PASS
		12	13	4.29	<13	PASS
		25	0	4.22	<13	PASS
	MCH	1	0	3.11	<13	PASS
		1	12	3.98	<13	PASS
		1	24	3.65	<13	PASS
		12	0	4.42	<13	PASS
		12	6	4.96	<13	PASS
		12	13	5.00	<13	PASS
		25	0	4.83	<13	PASS
	HCH	1	0	3.88	<13	PASS
		1	12	3.74	<13	PASS
		1	24	3.05	<13	PASS
		12	0	5.08	<13	PASS
		12	6	4.77	<13	PASS
		12	13	4.25	<13	PASS
		25	0	4.70	<13	PASS
16QAM	LCH	1	0	3.85	<13	PASS
		1	12	4.10	<13	PASS
		1	24	4.72	<13	PASS
		12	0	4.57	<13	PASS
		12	6	4.72	<13	PASS
		12	13	5.15	<13	PASS
		25	0	5.09	<13	PASS
	MCH	1	0	3.92	<13	PASS
		1	12	4.74	<13	PASS
		1	24	4.52	<13	PASS
		12	0	5.19	<13	PASS
		12	6	5.73	<13	PASS

		12	13	5.69	<13	PASS
		25	0	5.54	<13	PASS
	HCH	1	0	4.89	<13	PASS
		1	12	4.67	<13	PASS
		1	24	4.11	<13	PASS
		12	0	5.83	<13	PASS
		12	6	5.64	<13	PASS
		12	13	5.19	<13	PASS
		25	0	5.44	<13	PASS

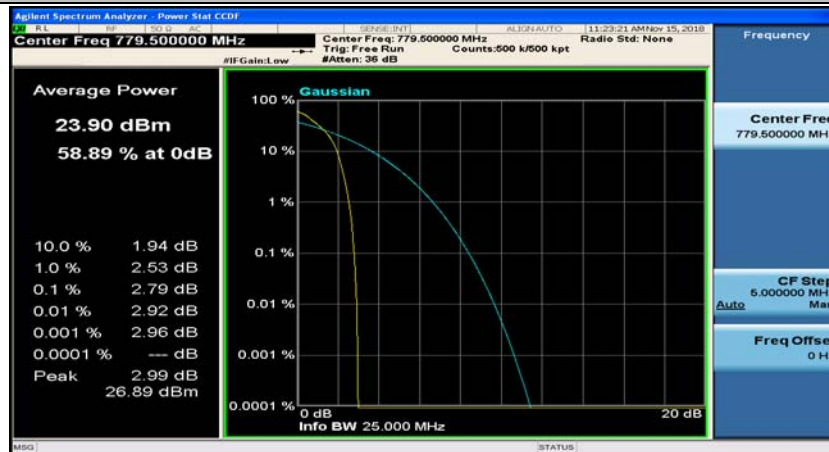
### Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	MCH	1	0	2.71	<13	PASS
		1	24	4.12	<13	PASS
		1	49	3.30	<13	PASS
		25	0	4.17	<13	PASS
		25	12	4.91	<13	PASS
		25	25	4.92	<13	PASS
		50	0	4.52	<13	PASS
16QAM	MCH	1	0	3.83	<13	PASS
		1	24	5.12	<13	PASS
		1	49	4.29	<13	PASS
		25	0	5.04	<13	PASS
		25	12	5.75	<13	PASS
		25	25	5.72	<13	PASS
		50	0	5.39	<13	PASS
		50	0	5.37	<13	PASS

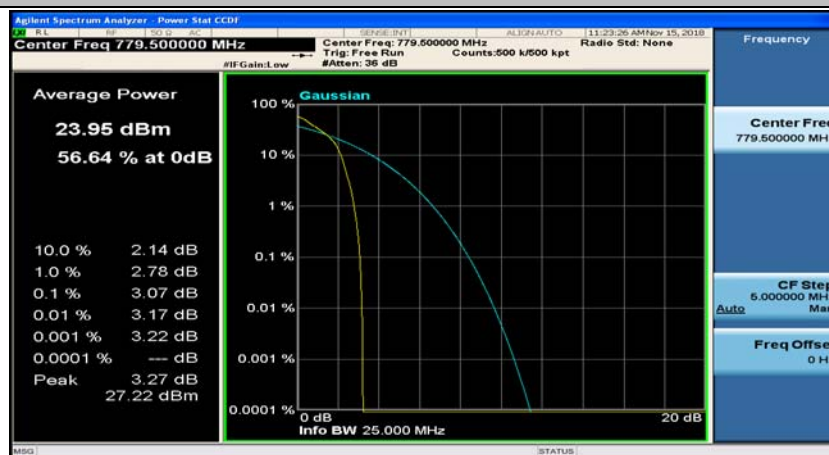
## Test Graphs

### Channel Bandwidth: 5 MHz

(Channel Bandwidth: 5 MHz)\_LCH\_QPSK\_1RB#0



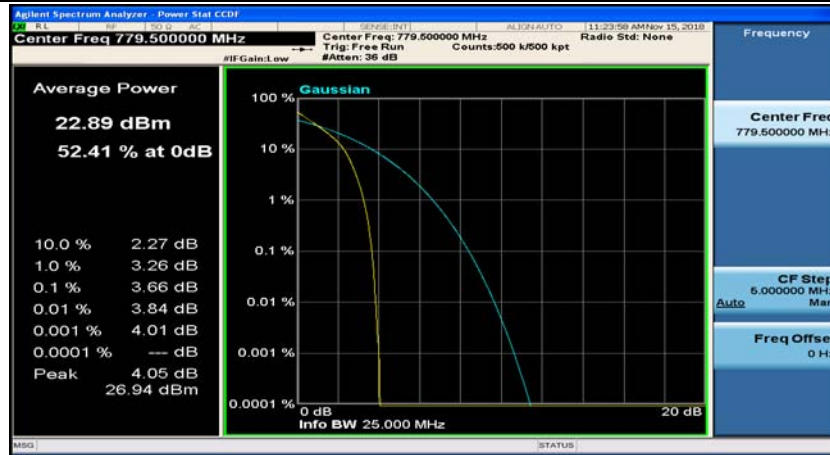
(Channel Bandwidth: 5 MHz)\_LCH\_QPSK\_1RB#12



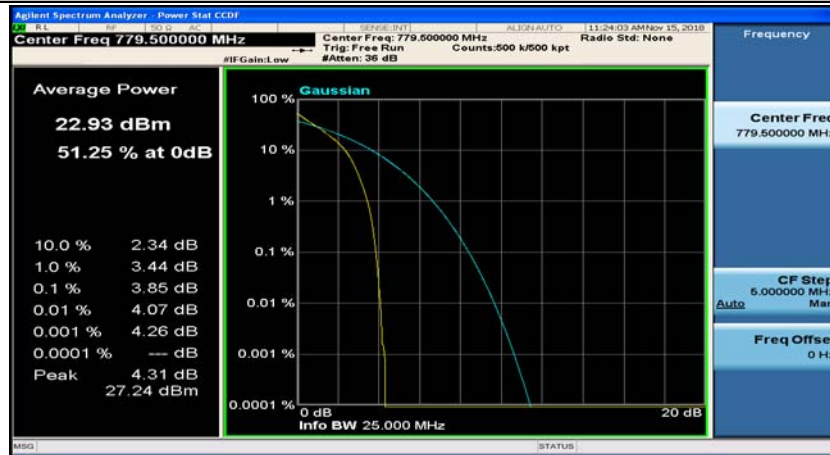
(Channel Bandwidth: 5 MHz)\_LCH\_QPSK\_1RB#24



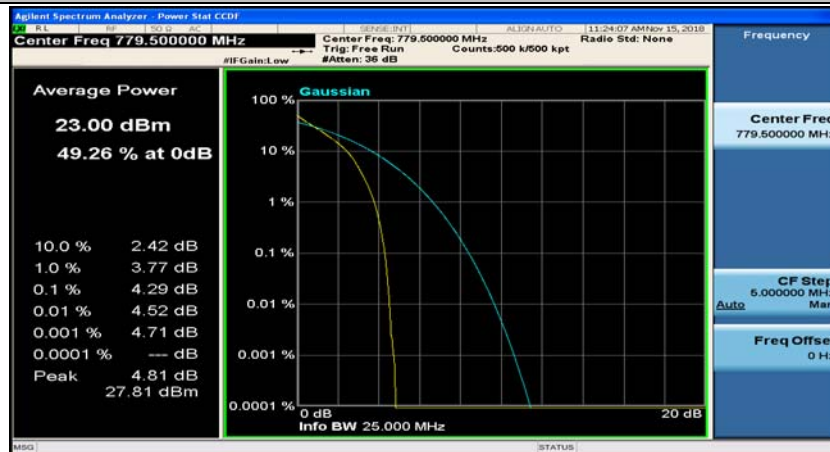
(Channel Bandwidth: 5 MHz)\_LCH\_QPSK\_12RB#0



(Channel Bandwidth: 5 MHz)\_LCH\_QPSK\_12RB#6



(Channel Bandwidth: 5 MHz)\_LCH\_QPSK\_12RB#13



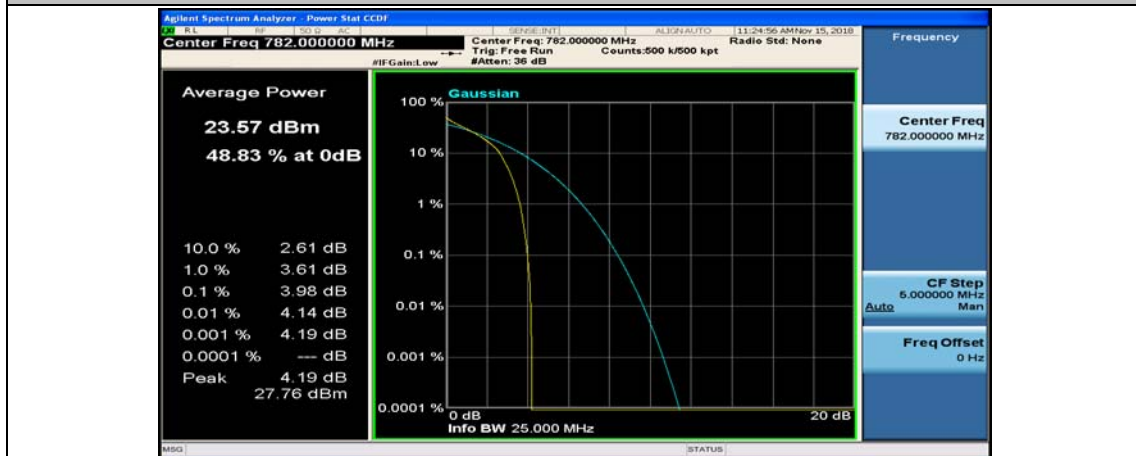
(Channel Bandwidth: 5 MHz)\_LCH\_QPSK\_25RB#0



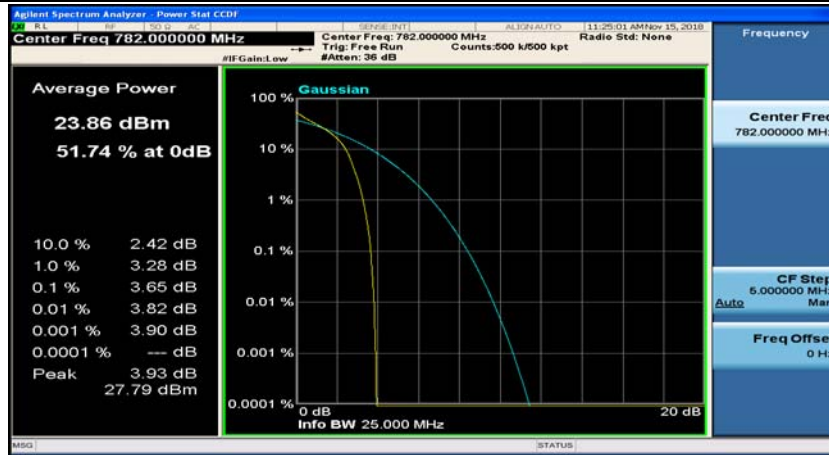
(Channel Bandwidth: 5 MHz)\_MCH\_QPSK\_1RB#0



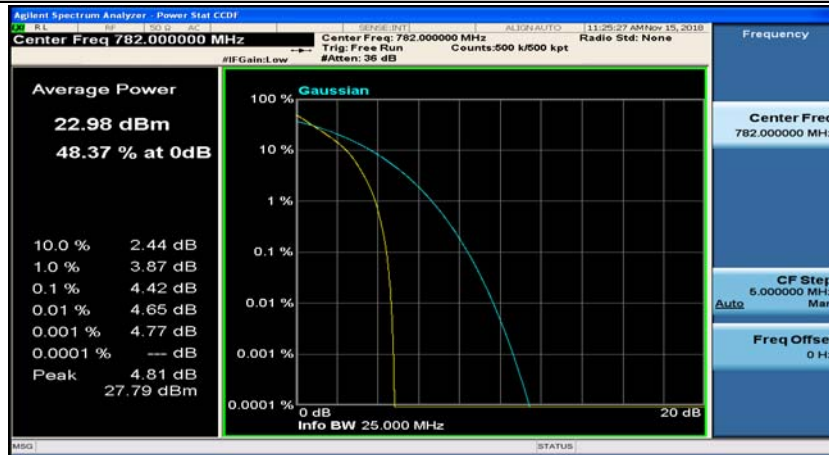
(Channel Bandwidth: 5 MHz)\_MCH\_QPSK\_1RB#12



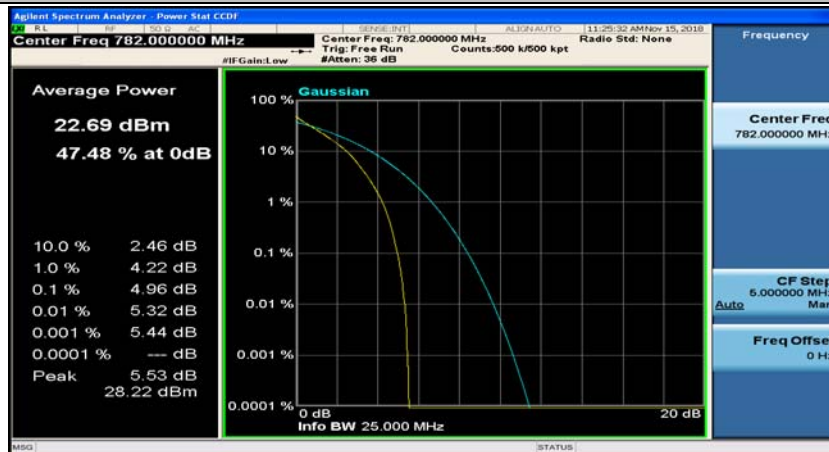
(Channel Bandwidth: 5 MHz)\_MCH\_QPSK\_1RB#24



(Channel Bandwidth: 5 MHz)\_MCH\_QPSK\_12RB#0



(Channel Bandwidth: 5 MHz)\_MCH\_QPSK\_12RB#6



(Channel Bandwidth: 5 MHz)\_MCH\_QPSK\_12RB#13

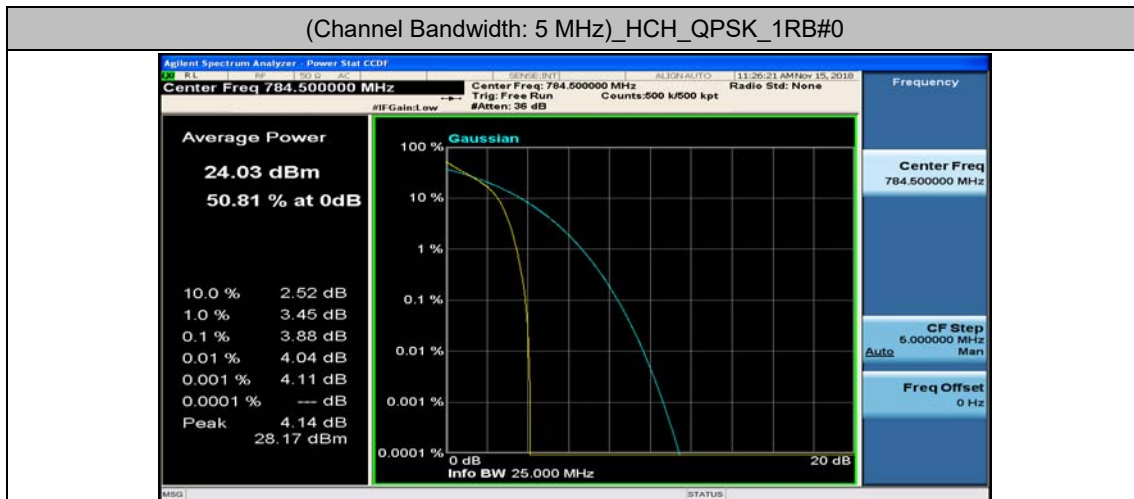




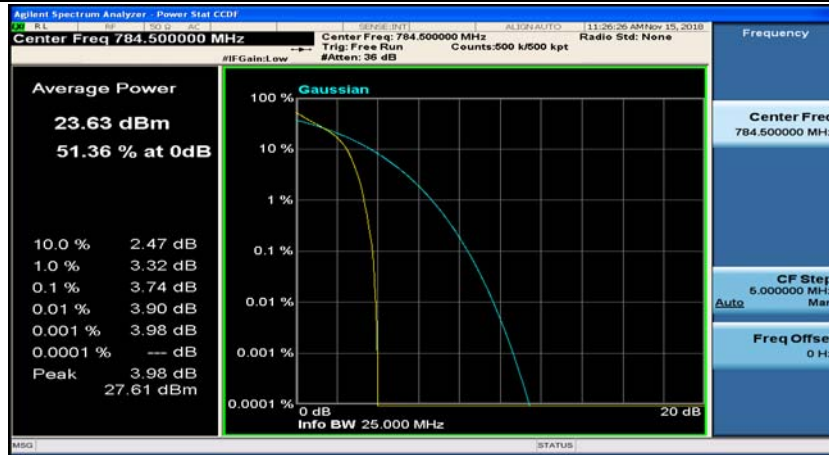
(Channel Bandwidth: 5 MHz)\_MCH\_QPSK\_25RB#0



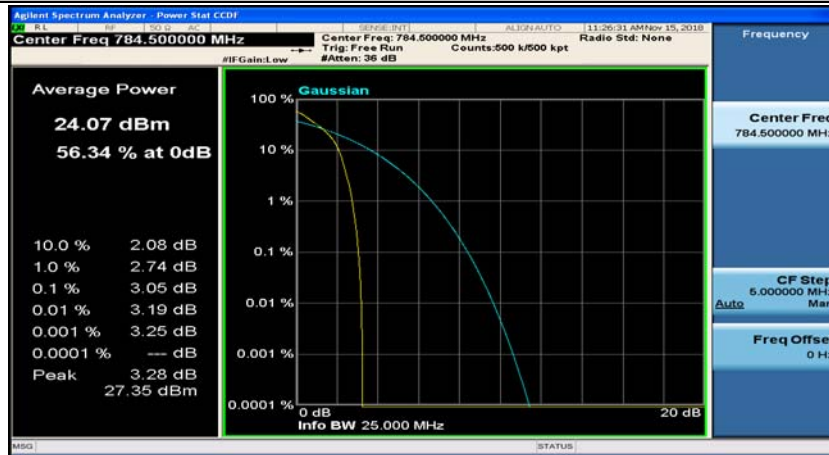
(Channel Bandwidth: 5 MHz)\_HCH\_QPSK\_1RB#0



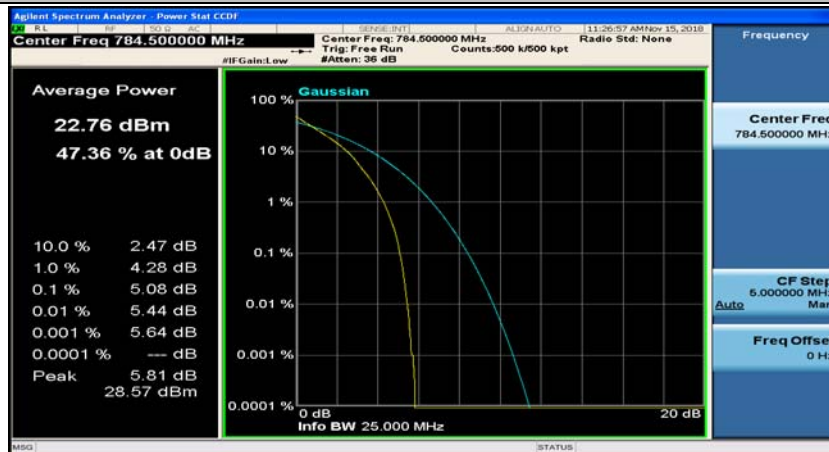
(Channel Bandwidth: 5 MHz)\_HCH\_QPSK\_1RB#12



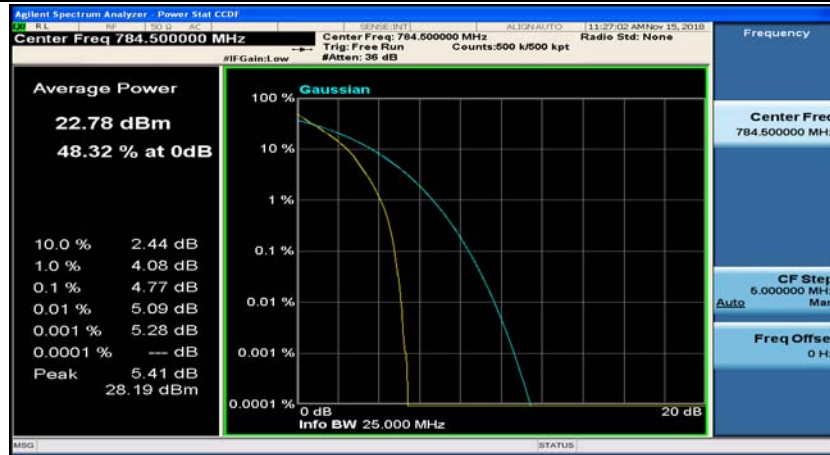
(Channel Bandwidth: 5 MHz)\_HCH\_QPSK\_1RB#24



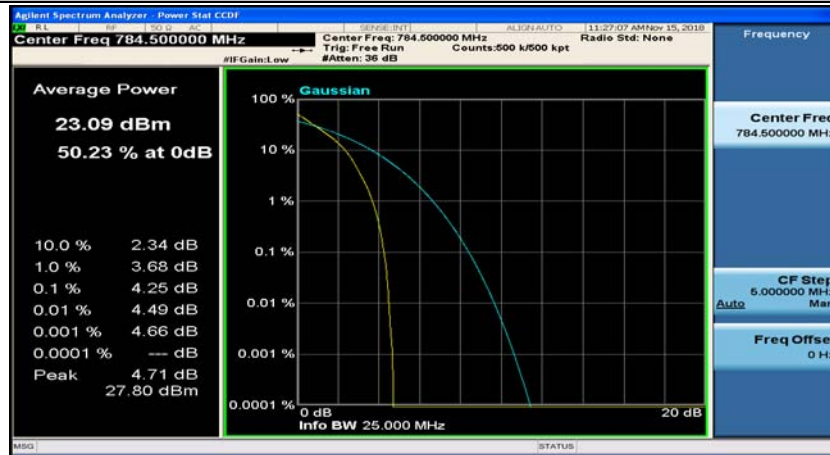
(Channel Bandwidth: 5 MHz)\_HCH\_QPSK\_12RB#0



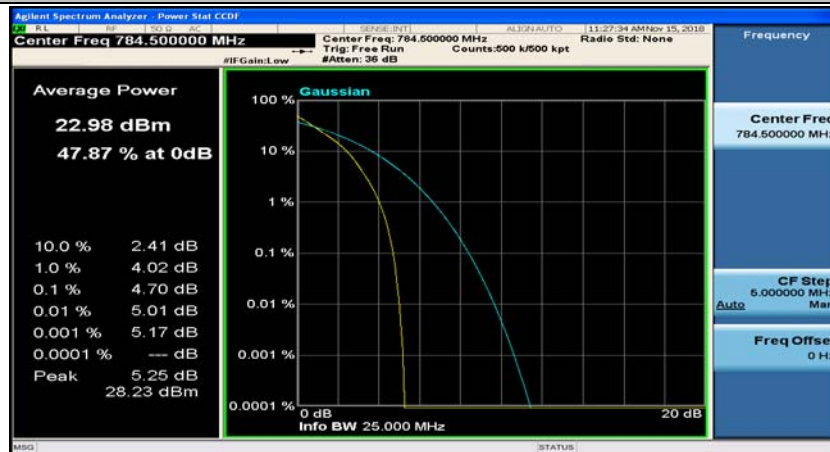
(Channel Bandwidth: 5 MHz)\_HCH\_QPSK\_12RB#6



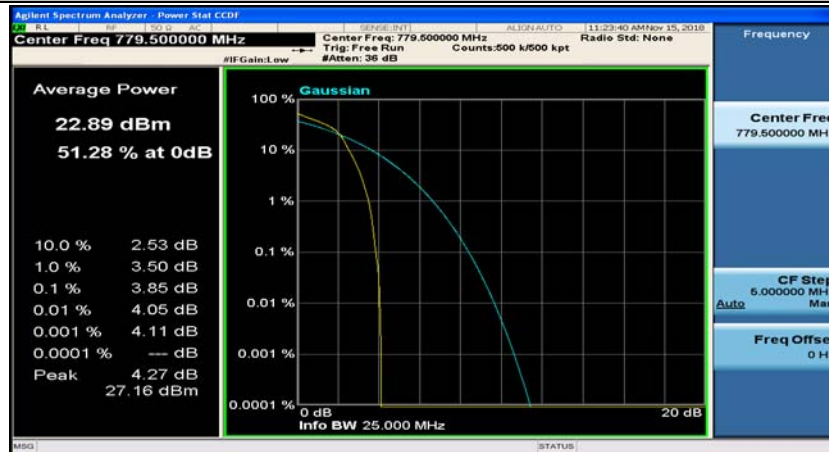
(Channel Bandwidth: 5 MHz)\_HCH\_QPSK\_12RB#13



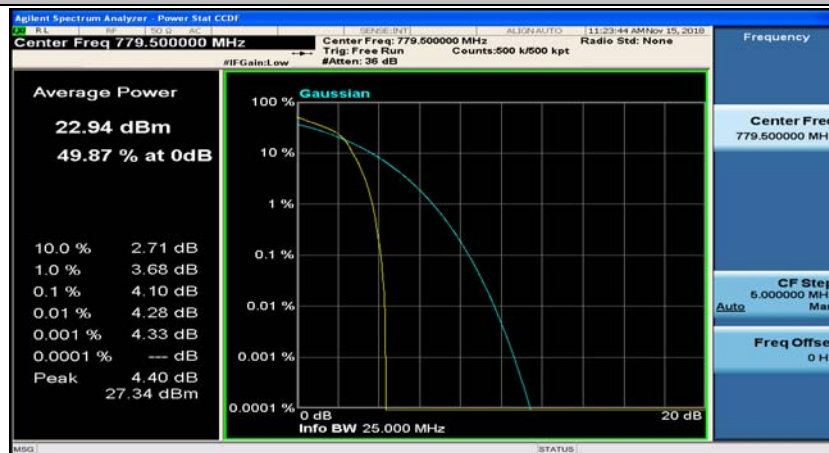
(Channel Bandwidth: 5 MHz)\_HCH\_QPSK\_25RB#0



(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_1RB#0



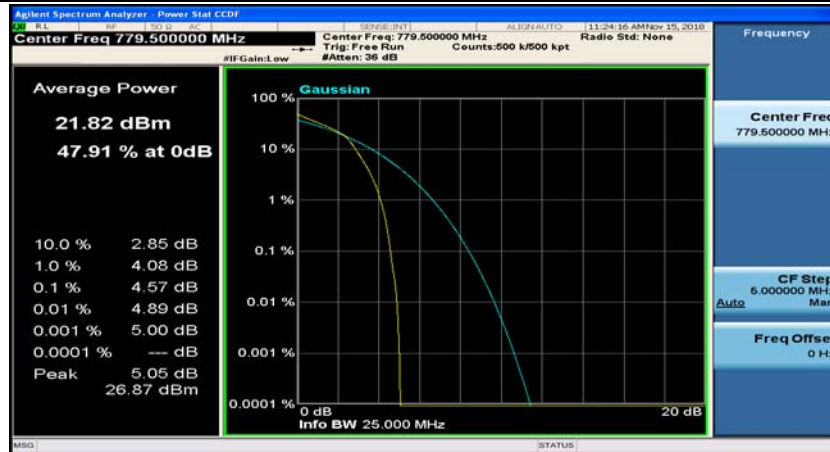
(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_1RB#12



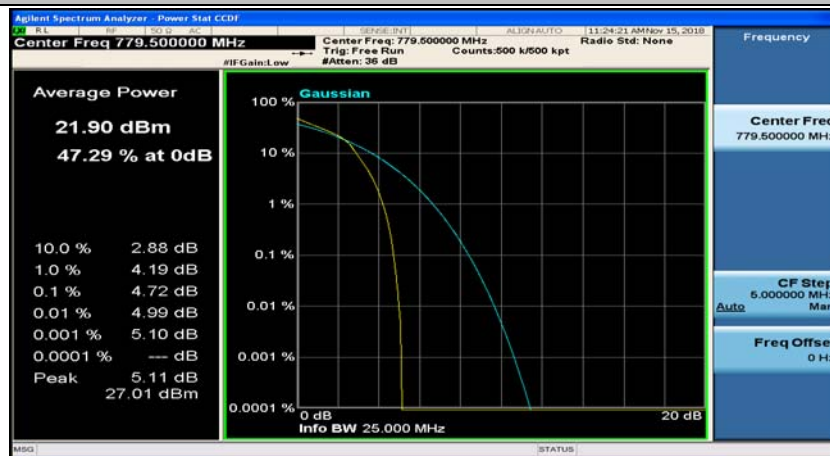
(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_1RB#24



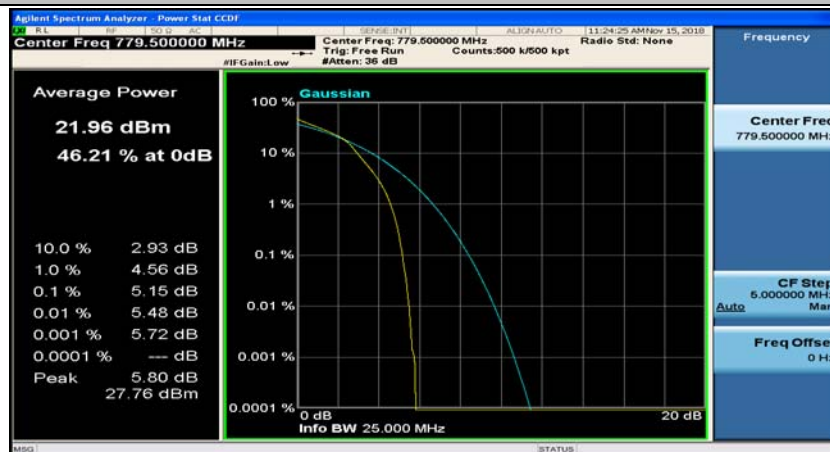
(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_12RB#0



(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_12RB#6



(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_12RB#13



(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_25RB#0

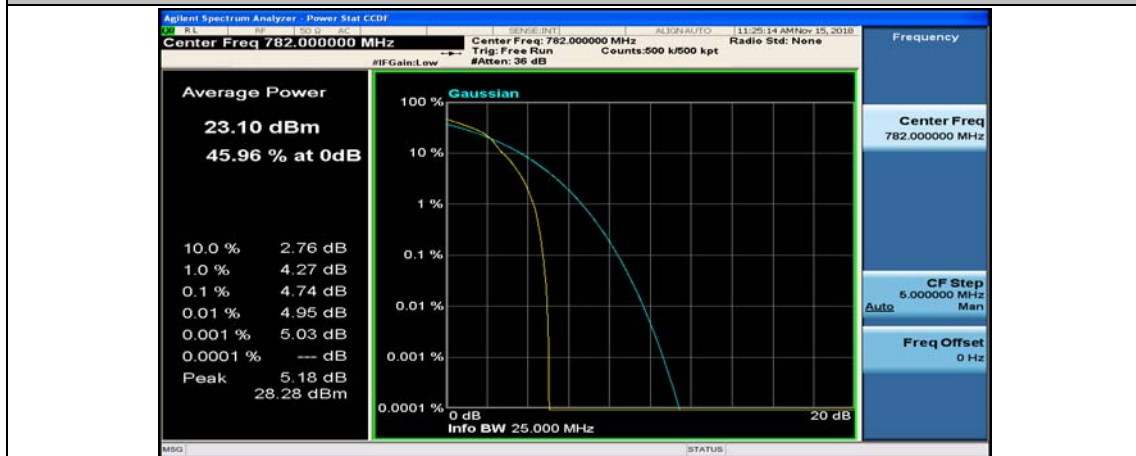




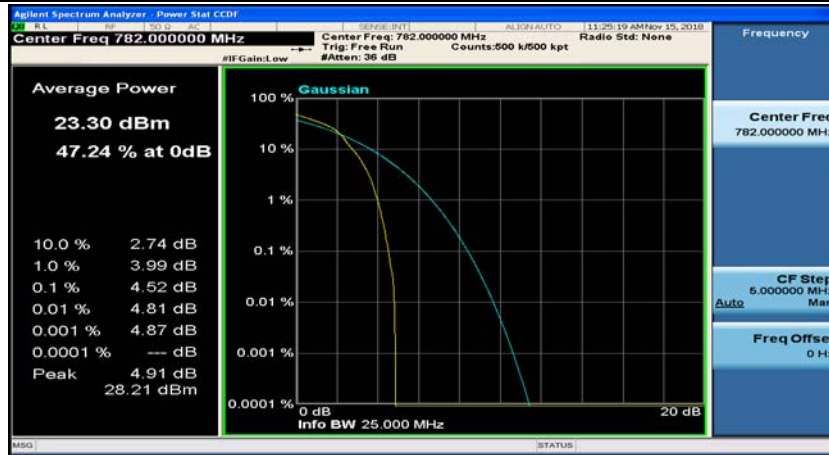
(Channel Bandwidth: 5 MHz)\_MCH\_16QAM\_1RB#0



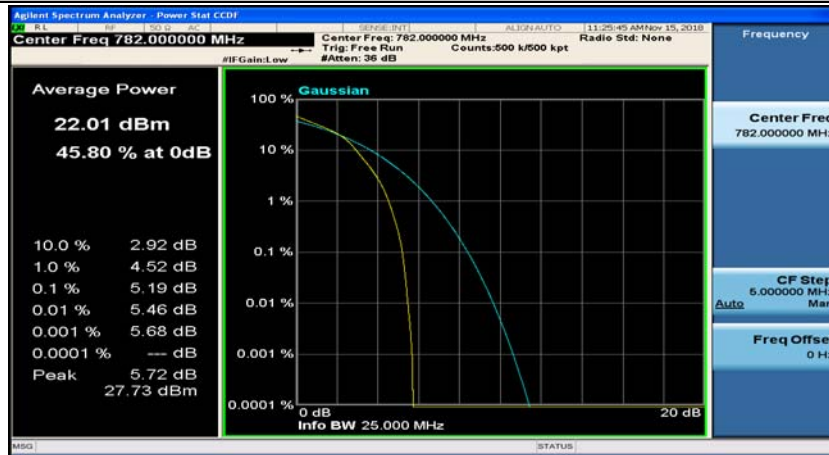
(Channel Bandwidth: 5 MHz)\_MCH\_16QAM\_1RB#12



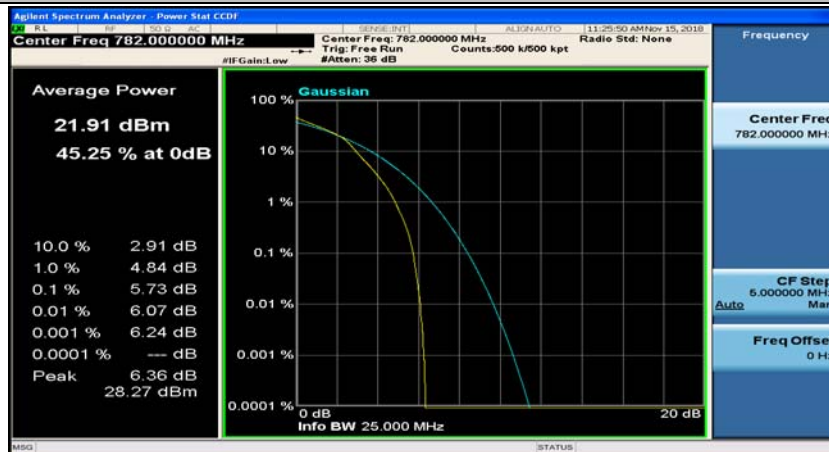
(Channel Bandwidth: 5 MHz)\_MCH\_16QAM\_1RB#24



(Channel Bandwidth: 5 MHz)\_MCH\_16QAM\_12RB#0



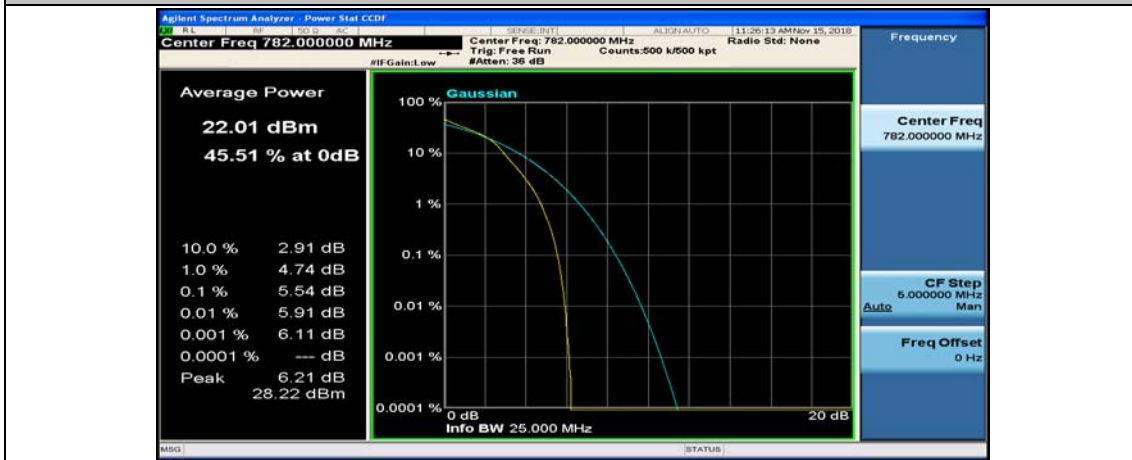
(Channel Bandwidth: 5 MHz)\_MCH\_16QAM\_12RB#6



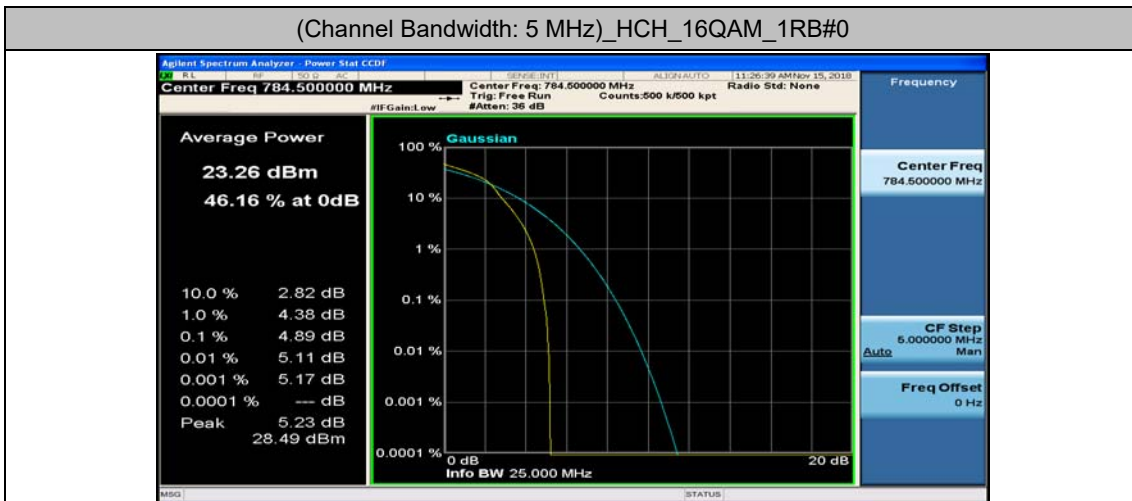
(Channel Bandwidth: 5 MHz)\_MCH\_16QAM\_12RB#13



(Channel Bandwidth: 5 MHz)\_MCH\_16QAM\_25RB#0



(Channel Bandwidth: 5 MHz)\_HCH\_16QAM\_1RB#0

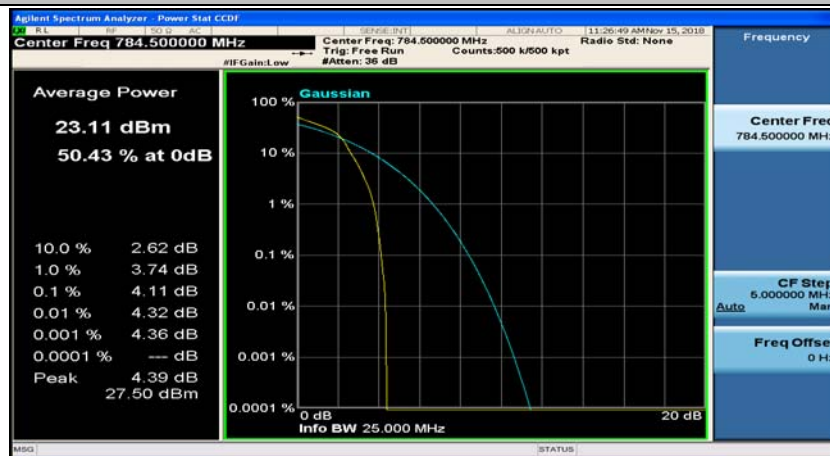


(Channel Bandwidth: 5 MHz)\_HCH\_16QAM\_1RB#12





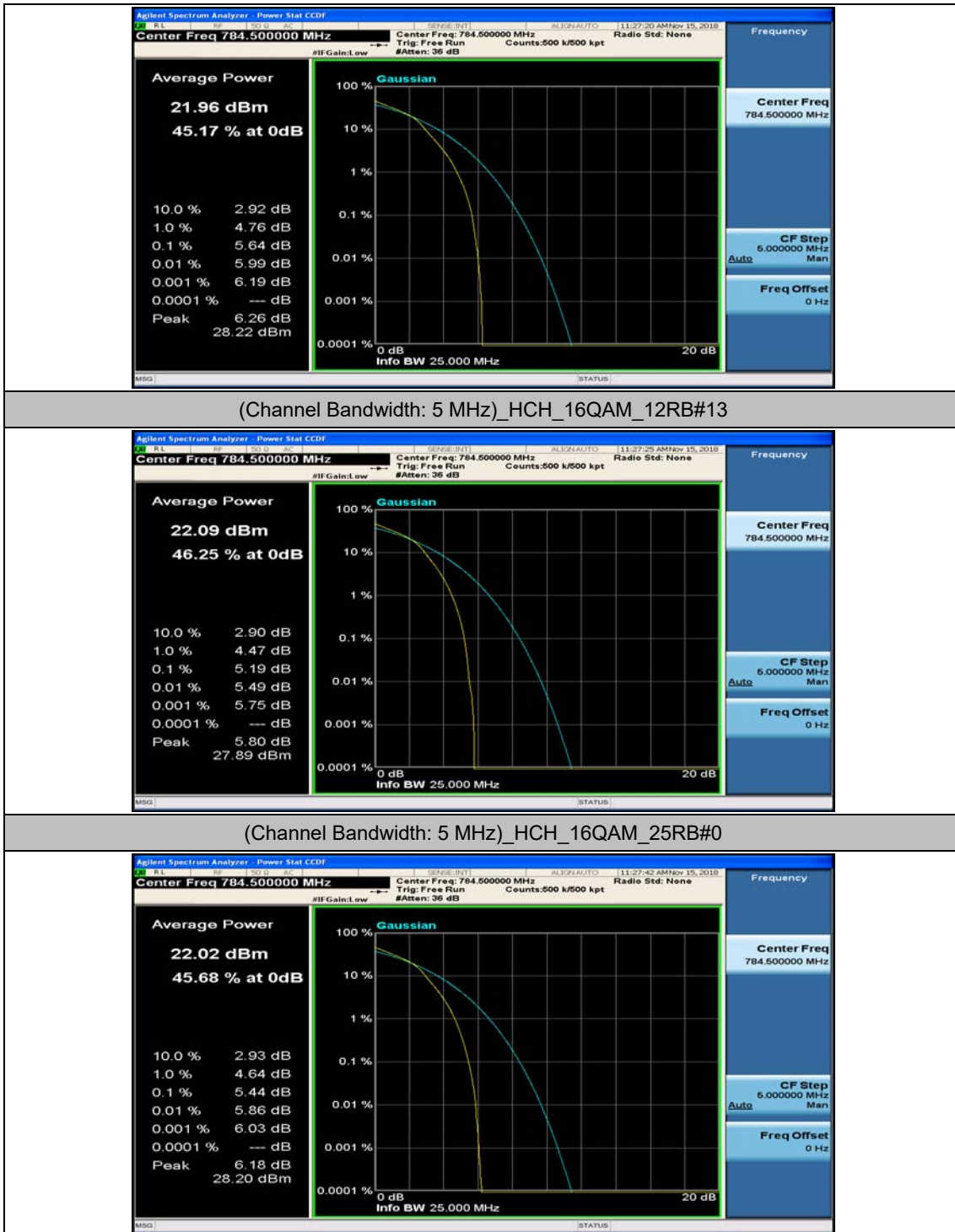
(Channel Bandwidth: 5 MHz)\_HCH\_16QAM\_1RB#24



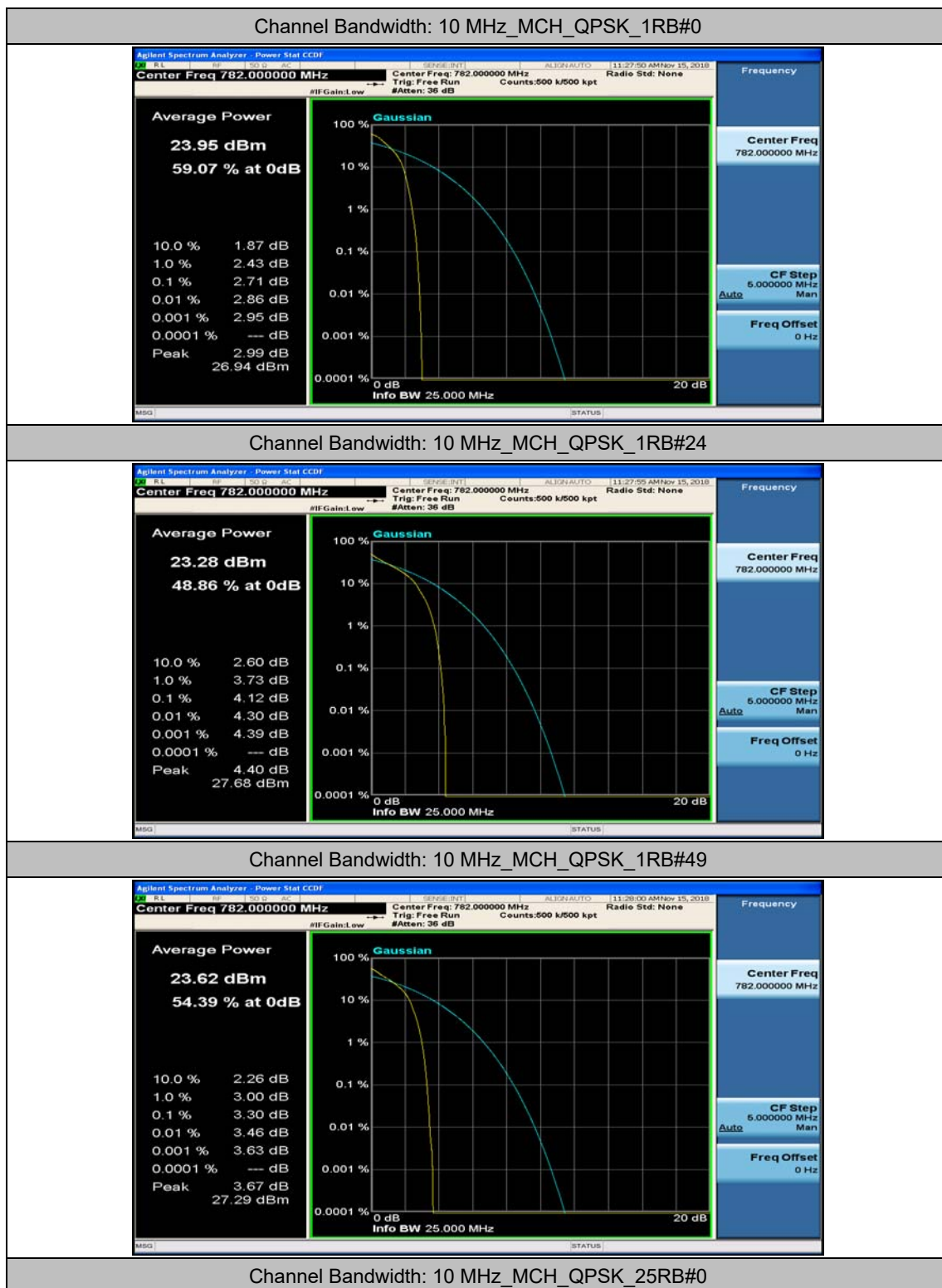
(Channel Bandwidth: 5 MHz)\_HCH\_16QAM\_12RB#0

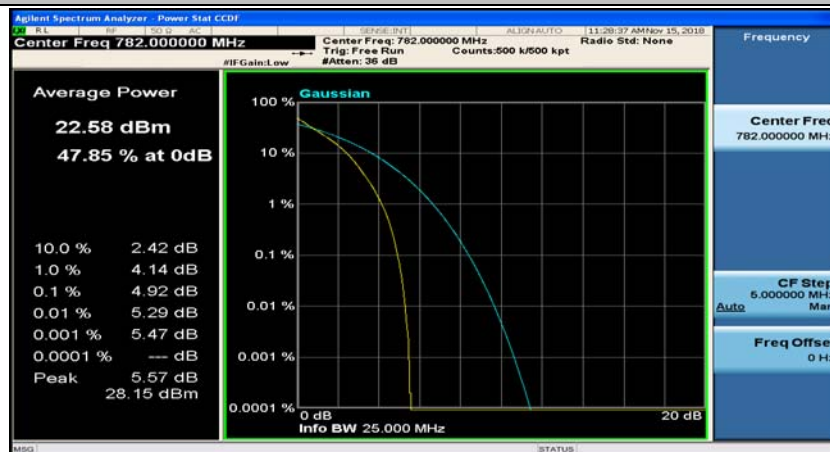
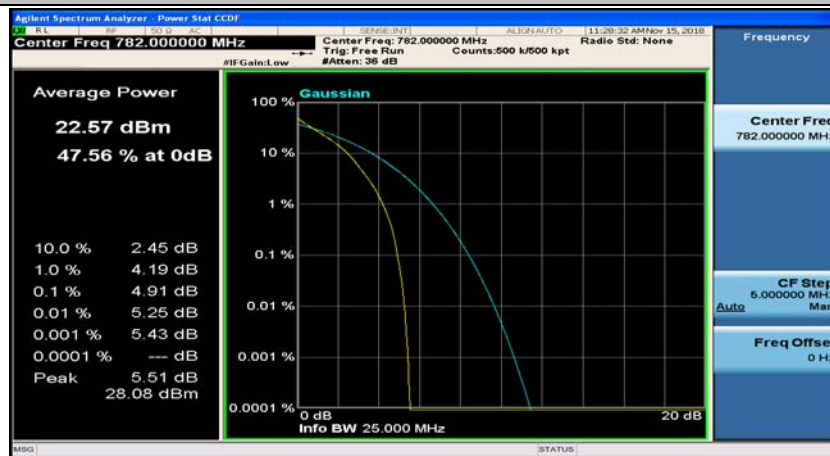
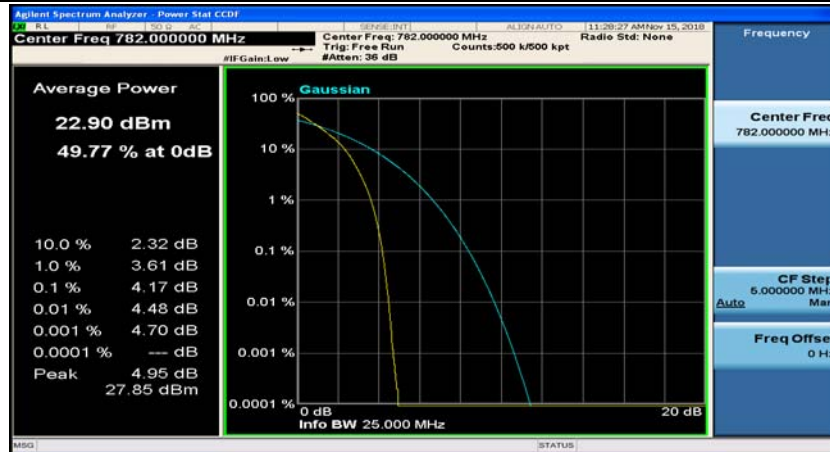


(Channel Bandwidth: 5 MHz)\_HCH\_16QAM\_12RB#6



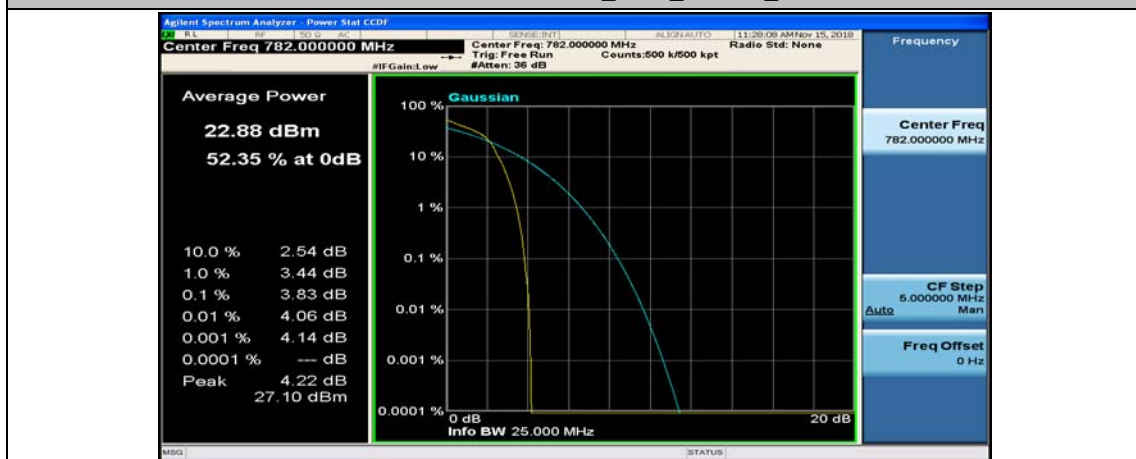
## Channel Bandwidth: 10 MHz







Channel Bandwidth: 10 MHz\_MCH\_16QAM\_1RB#0

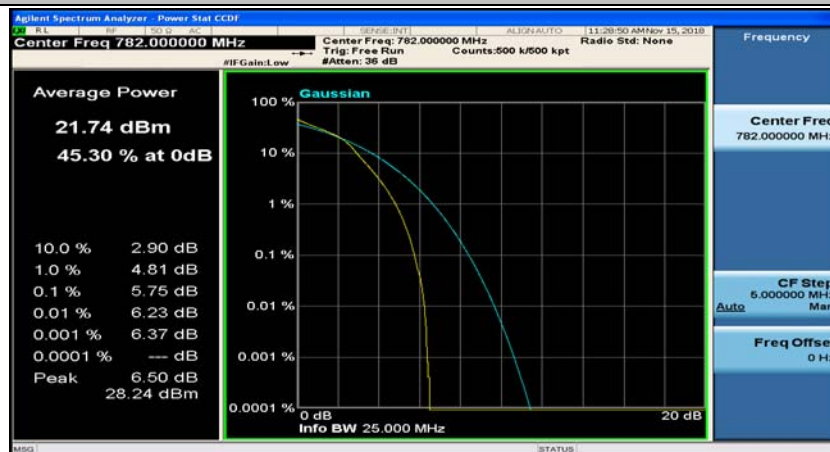
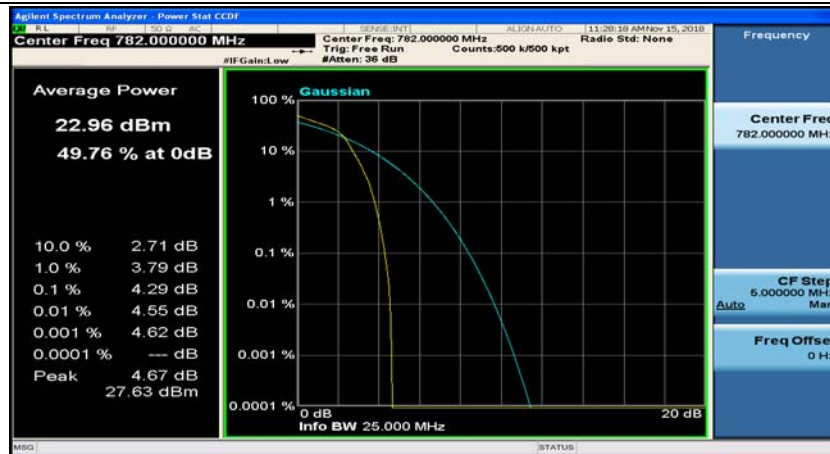


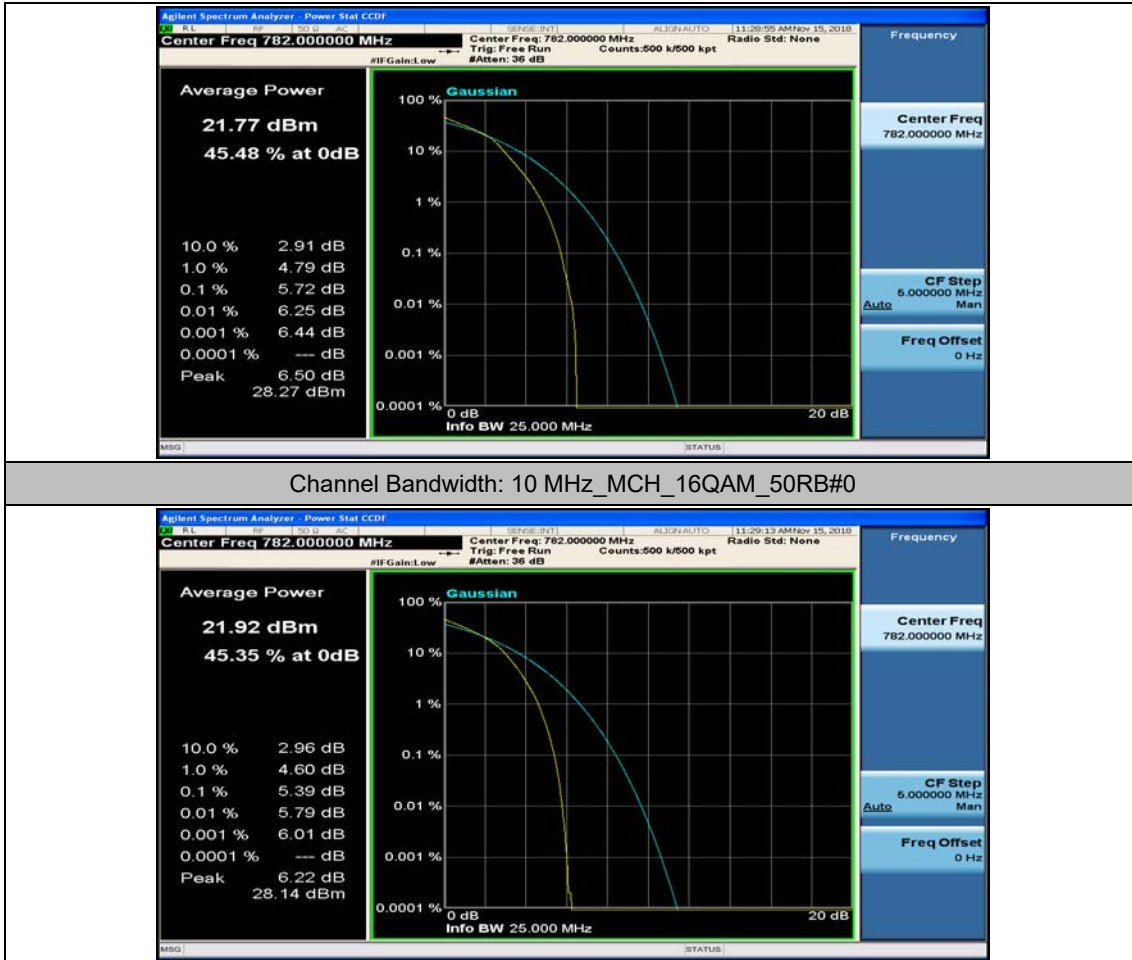
Channel Bandwidth: 10 MHz\_MCH\_16QAM\_1RB#24



Channel Bandwidth: 10 MHz\_MCH\_16QAM\_1RB#49







## Appendix C: 26dB Bandwidth and Occupied Bandwidth

### Test Result

#### Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	25	0	4.4767	4.823	PASS
	MCH	25	0	4.4845	4.843	PASS
	HCH	25	0	4.4863	4.856	PASS
16QAM	LCH	25	0	4.4814	4.771	PASS
	MCH	25	0	4.4860	4.858	PASS
	HCH	25	0	4.4899	4.796	PASS

#### Channel Bandwidth: 10 MHz

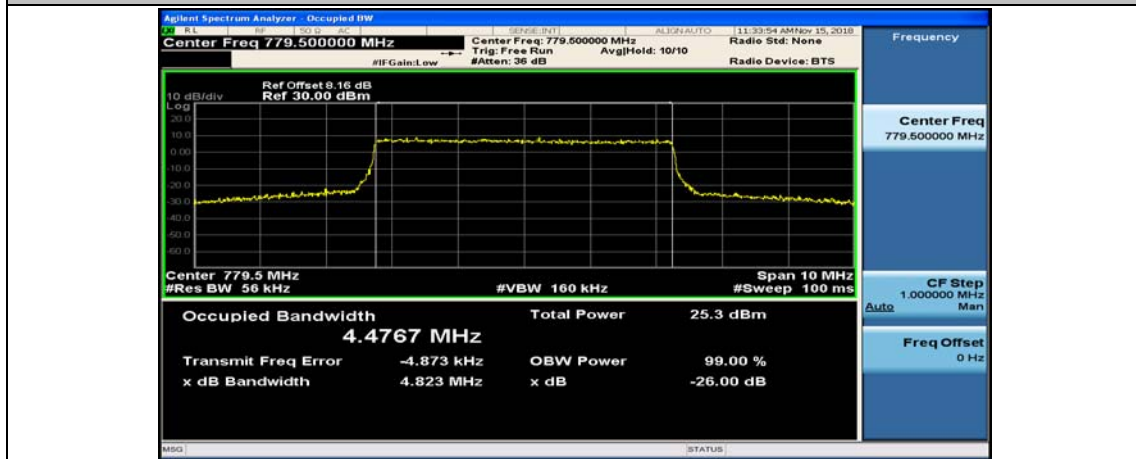
Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	MCH	50	0	8.9601	9.509	PASS
16QAM	MCH	50	0	8.9577	9.606	PASS



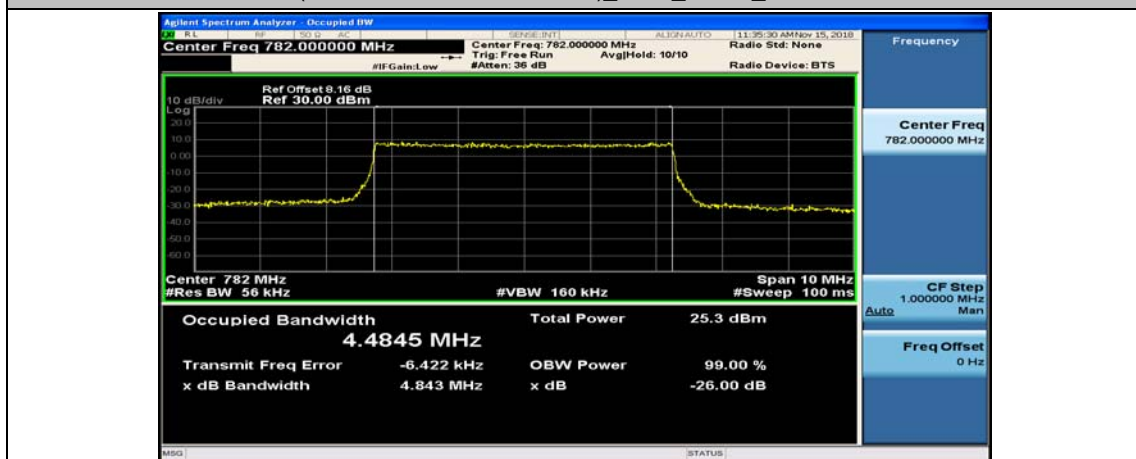
## Test Graphs

### Channel Bandwidth: 5 MHz

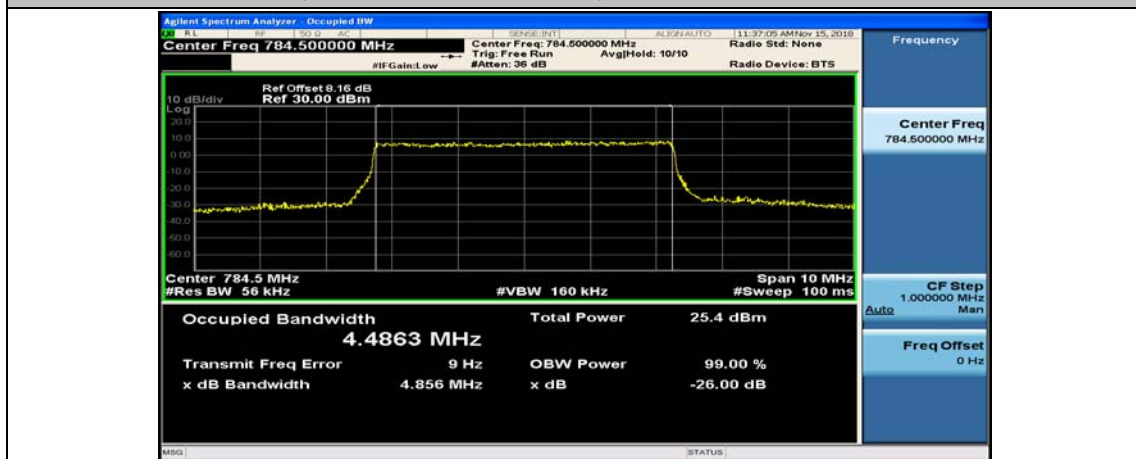
(Channel Bandwidth: 5 MHz)\_LCH\_QPSK\_25RB#0



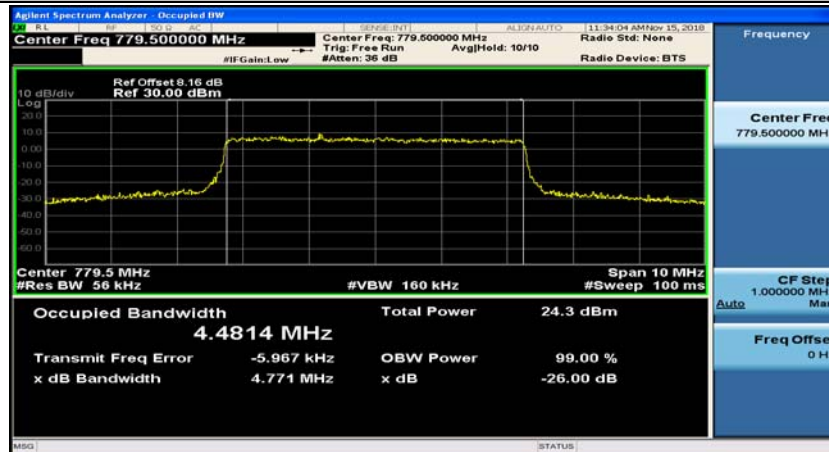
(Channel Bandwidth: 5 MHz)\_MCH\_QPSK\_25RB#0



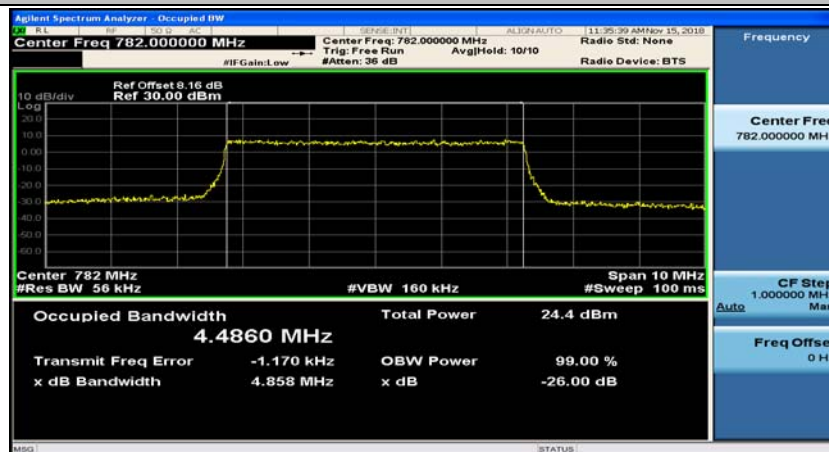
(Channel Bandwidth: 5 MHz)\_HCH\_QPSK\_25RB#0



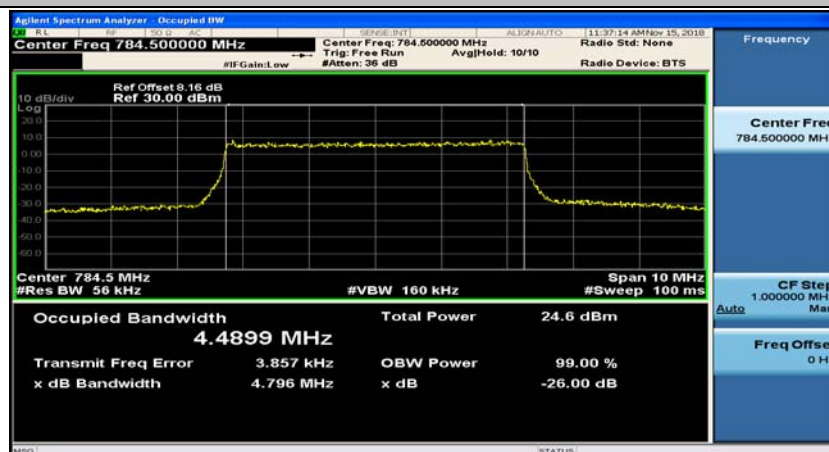
(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_25RB#0



(Channel Bandwidth: 5 MHz)\_MCH\_16QAM\_25RB#0

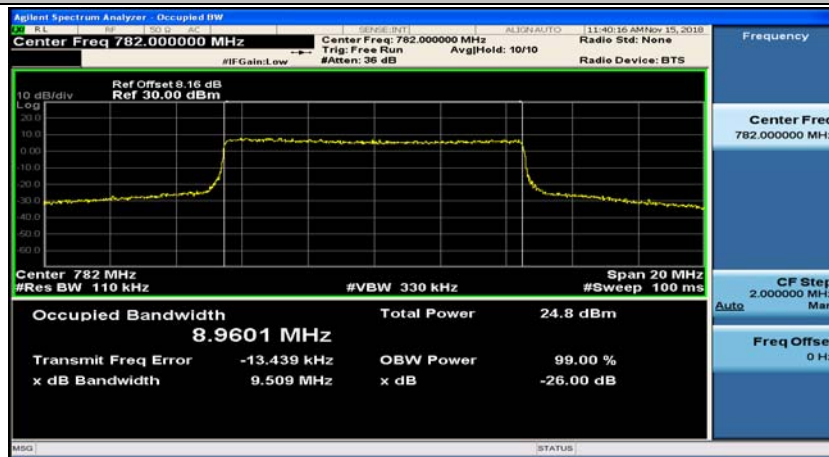


(Channel Bandwidth: 5 MHz)\_HCH\_16QAM\_25RB#0

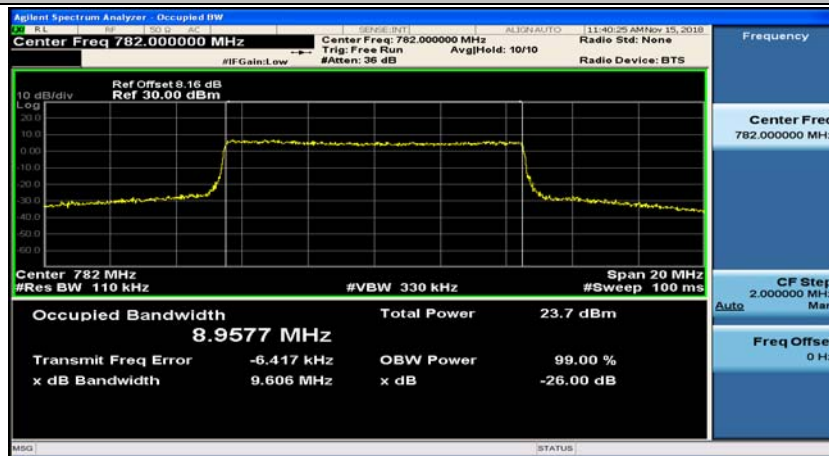


Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz\_MCH\_QPSK\_50RB#0



Channel Bandwidth: 10 MHz\_MCH\_16QAM\_50RB#0

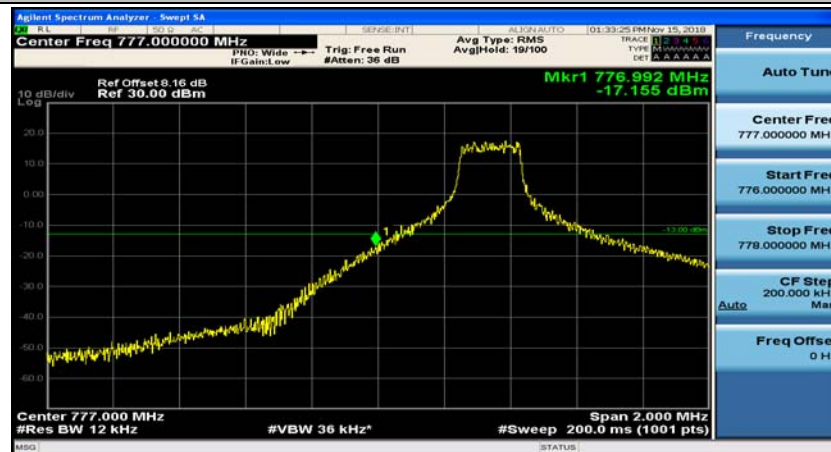


## Appendix D: Band Edge

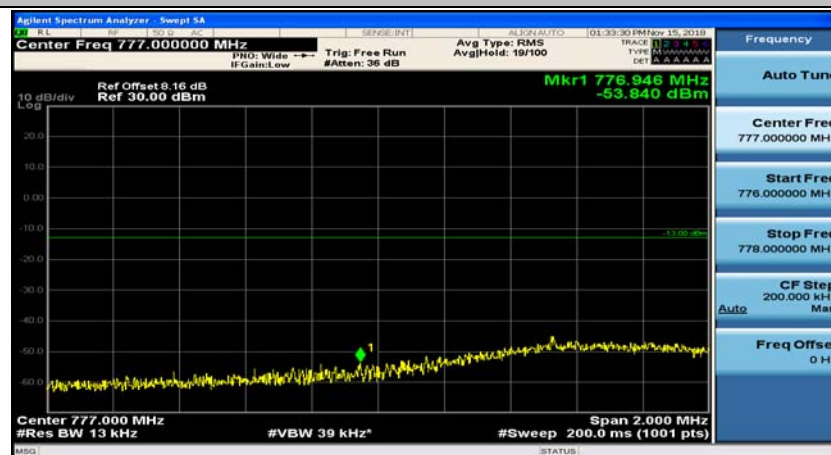
### Test Graphs

#### Channel Bandwidth: 5 MHz

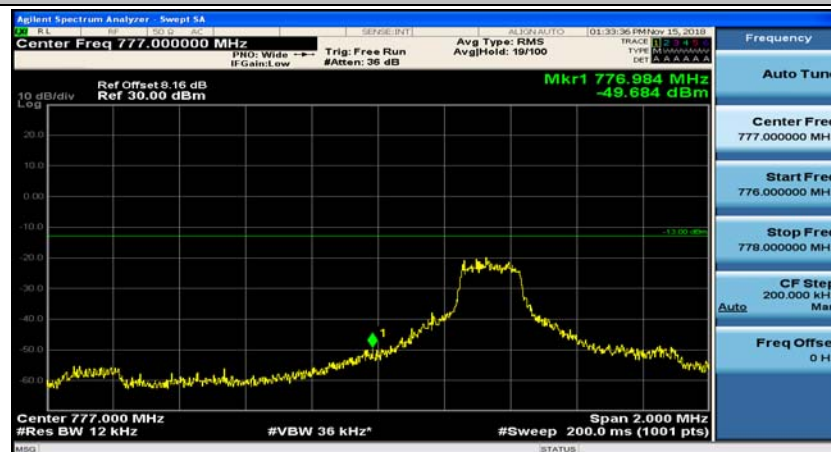
(Channel Bandwidth: 5 MHz)\_LCH\_QPSK\_1RB#0



(Channel Bandwidth: 5 MHz)\_LCH\_QPSK\_1RB#12



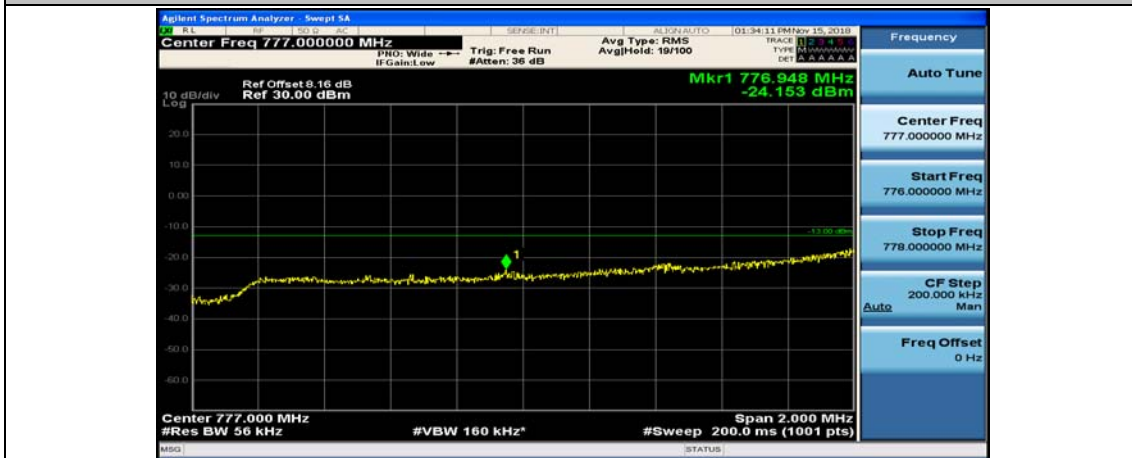
(Channel Bandwidth: 5 MHz)\_LCH\_QPSK\_1RB#24



(Channel Bandwidth: 5 MHz)\_LCH\_QPSK\_12RB#0



(Channel Bandwidth: 5 MHz)\_LCH\_QPSK\_12RB#6



(Channel Bandwidth: 5 MHz)\_LCH\_QPSK\_12RB#13

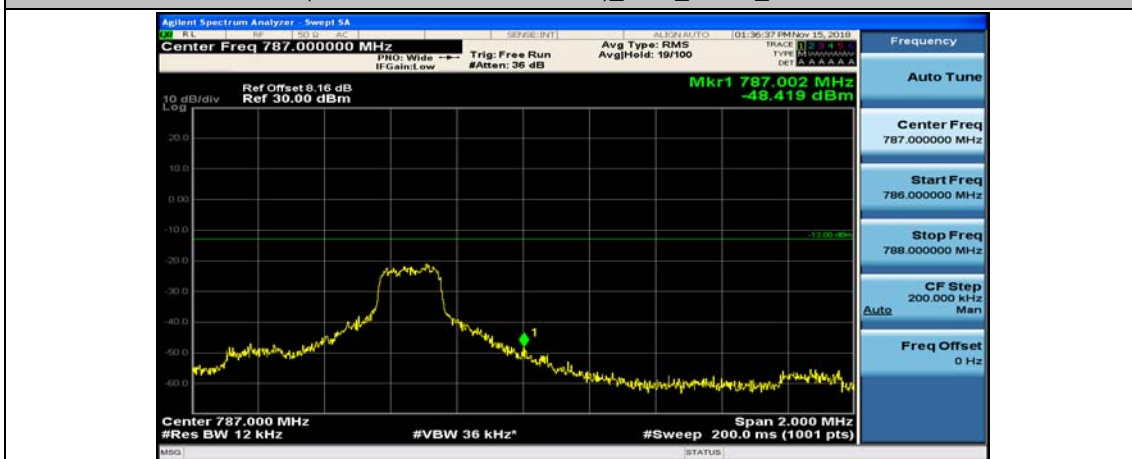


(Channel Bandwidth: 5 MHz)\_LCH\_QPSK\_25RB#0

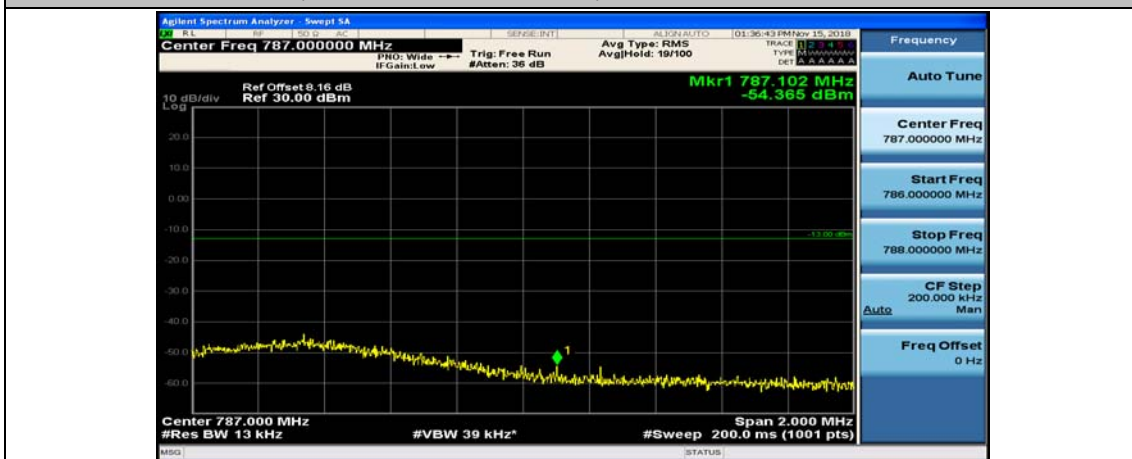




(Channel Bandwidth: 5 MHz)\_HCH\_QPSK\_1RB#0



(Channel Bandwidth: 5 MHz)\_HCH\_QPSK\_1RB#12



(Channel Bandwidth: 5 MHz)\_HCH\_QPSK\_1RB#24



(Channel Bandwidth: 5 MHz)\_HCH\_QPSK\_12RB#0



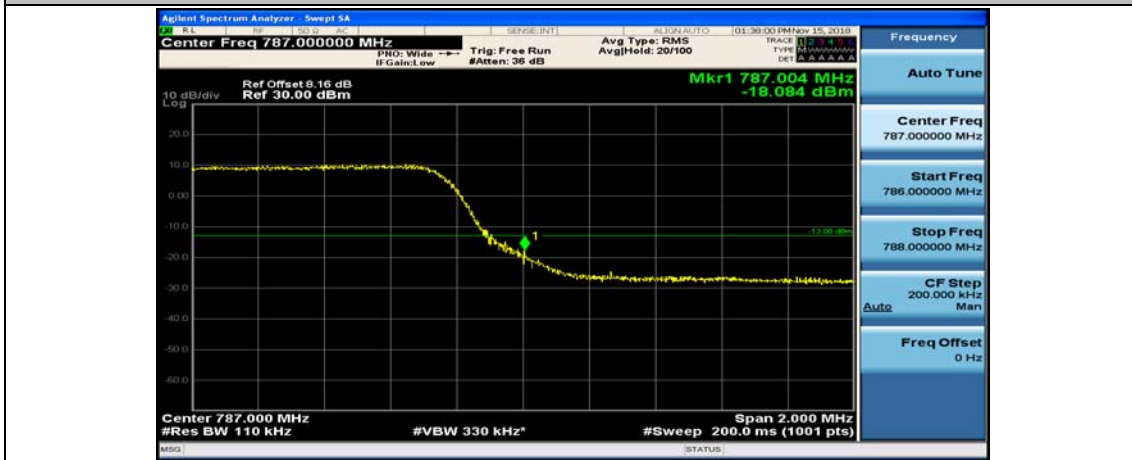
(Channel Bandwidth: 5 MHz)\_HCH\_QPSK\_12RB#6



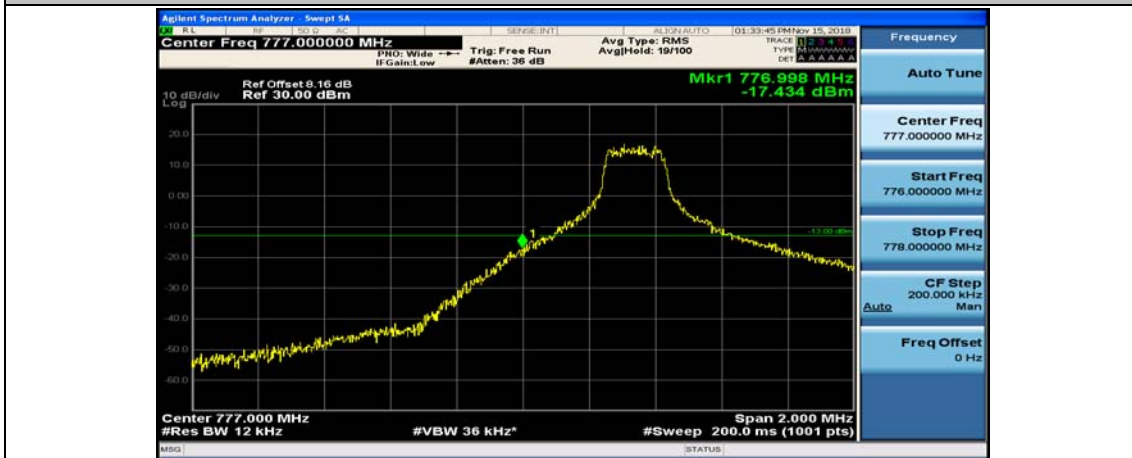
(Channel Bandwidth: 5 MHz)\_HCH\_QPSK\_12RB#13



(Channel Bandwidth: 5 MHz)\_HCH\_QPSK\_25RB#0

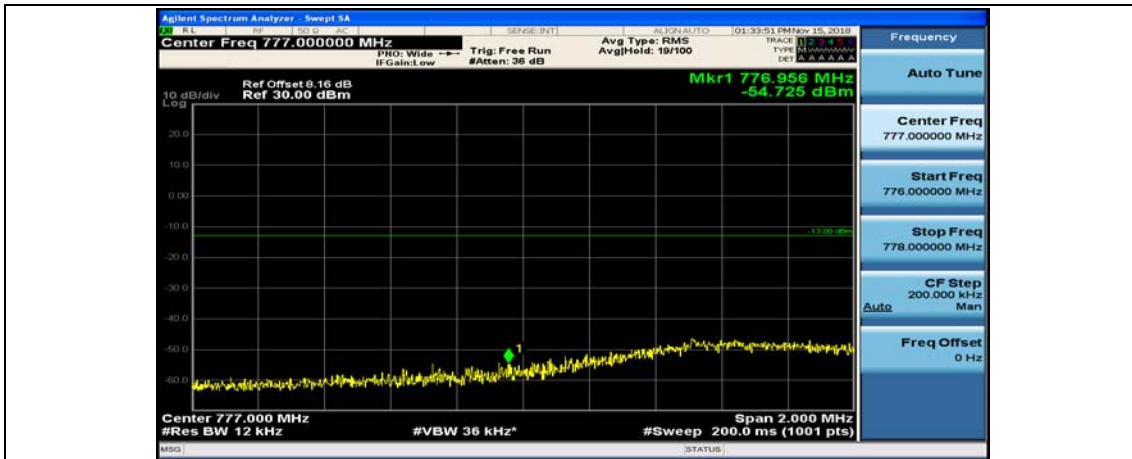


(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_1RB#0

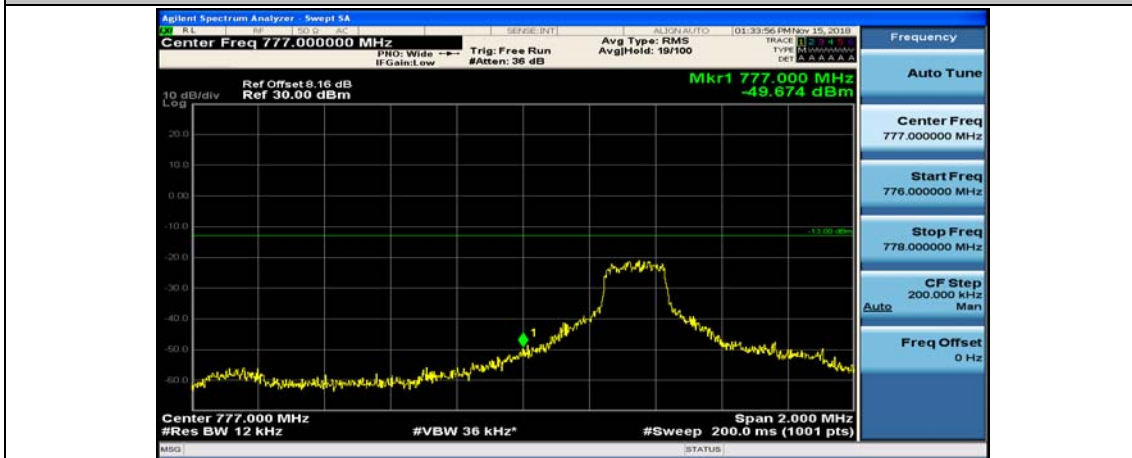


(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_1RB#12

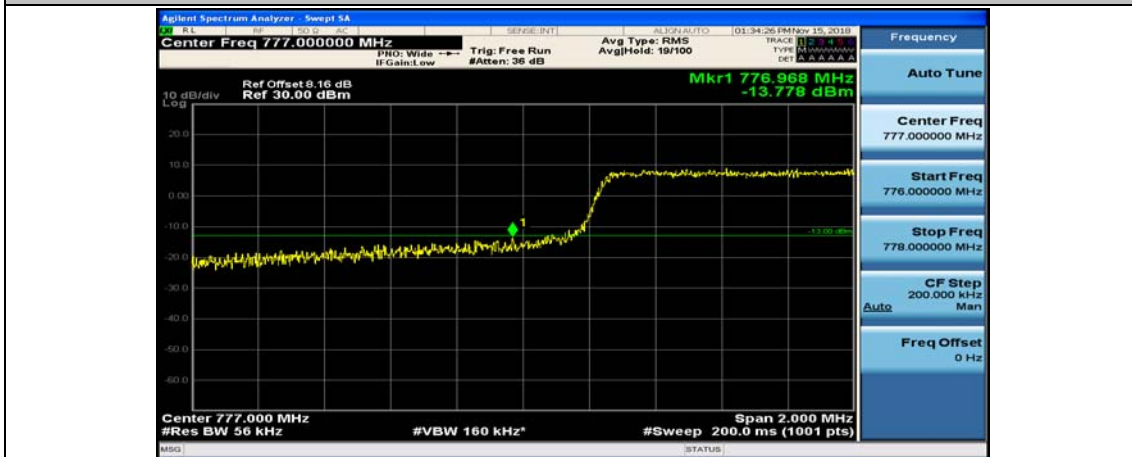




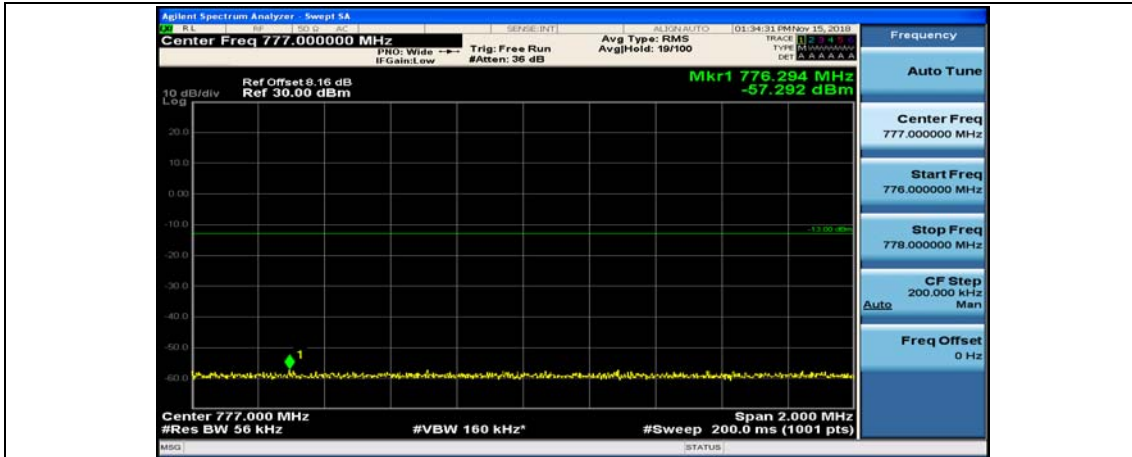
(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_1RB#24



(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_12RB#0



(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_12RB#6



(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_12RB#13



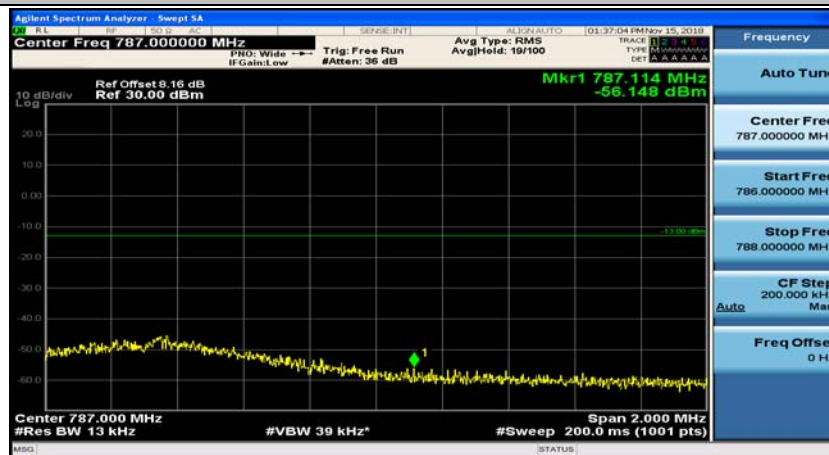
(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_25RB#0



(Channel Bandwidth: 5 MHz)\_HCH\_16QAM\_1RB#0



(Channel Bandwidth: 5 MHz)\_HCH\_16QAM\_1RB#12



(Channel Bandwidth: 5 MHz)\_HCH\_16QAM\_1RB#24



(Channel Bandwidth: 5 MHz)\_HCH\_16QAM\_12RB#0