

## 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	23.67	PASS
		1	12	23.98	PASS
		1	24	23.73	PASS
		12	0	22.72	PASS
		12	6	22.79	PASS
		12	13	22.90	PASS
		25	0	22.81	PASS
	MCH	1	0	23.71	PASS
		1	12	24.07	PASS
		1	24	23.70	PASS
		12	0	22.67	PASS
		12	6	22.83	PASS
		12	13	22.81	PASS
		25	0	22.78	PASS
	HCH	1	0	23.78	PASS
		1	12	24.09	PASS
		1	24	23.75	PASS
		12	0	22.77	PASS
		12	6	22.82	PASS
		12	13	22.70	PASS
		25	0	22.75	PASS
16QAM	LCH	1	0	22.86	PASS
		1	12	23.13	PASS
		1	24	22.98	PASS
		12	0	21.71	PASS
		12	6	21.77	PASS
		12	13	21.92	PASS
		25	0	21.83	PASS
	MCH	1	0	22.87	PASS
		1	12	23.37	PASS
		1	24	22.96	PASS

		12	0	21.75	PASS
		12	6	21.95	PASS
		12	13	21.91	PASS
		25	0	21.79	PASS
	HCH	1	0	22.94	PASS
		1	12	23.26	PASS
		1	24	22.87	PASS
		12	0	21.71	PASS
		12	6	21.80	PASS
		12	13	21.66	PASS
		25	0	21.76	PASS

### Channel Bandwidth: 10 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	MCH	1	0	23.70	PASS
		1	24	24.11	PASS
		1	49	23.70	PASS
		25	0	23.15	PASS
		25	12	23.17	PASS
		25	25	23.11	PASS
		50	0	23.14	PASS
16QAM	MCH	1	0	22.90	PASS
		1	24	23.18	PASS
		1	49	22.99	PASS
		25	0	21.77	PASS
		25	12	21.83	PASS
		25	25	21.80	PASS
		50	0	21.73	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	3.6	<13	PASS
		1	12	3.58	<13	PASS
		1	24	4.88	<13	PASS
		12	0	4.68	<13	PASS
		12	6	4.73	<13	PASS
		12	13	5.21	<13	PASS
		25	0	5.21	<13	PASS
	MCH	1	0	4.01	<13	PASS
		1	12	5.1	<13	PASS
		1	24	4.86	<13	PASS
		12	0	5.38	<13	PASS
		12	6	5.55	<13	PASS
		12	13	5.49	<13	PASS
		25	0	5.36	<13	PASS
	HCH	1	0	5.08	<13	PASS
		1	12	4.44	<13	PASS
		1	24	4.52	<13	PASS
		12	0	5.42	<13	PASS
		12	6	5.2	<13	PASS
		12	13	5.15	<13	PASS
		25	0	5.36	<13	PASS
16QAM	LCH	1	0	4.33	<13	PASS
		1	12	4.48	<13	PASS
		1	24	5.89	<13	PASS
		12	0	5.54	<13	PASS
		12	6	5.6	<13	PASS
		12	13	6.07	<13	PASS
		25	0	5.93	<13	PASS
	MCH	1	0	4.77	<13	PASS
		1	12	5.75	<13	PASS
		1	24	5.68	<13	PASS
		12	0	6.3	<13	PASS
		12	6	6.47	<13	PASS

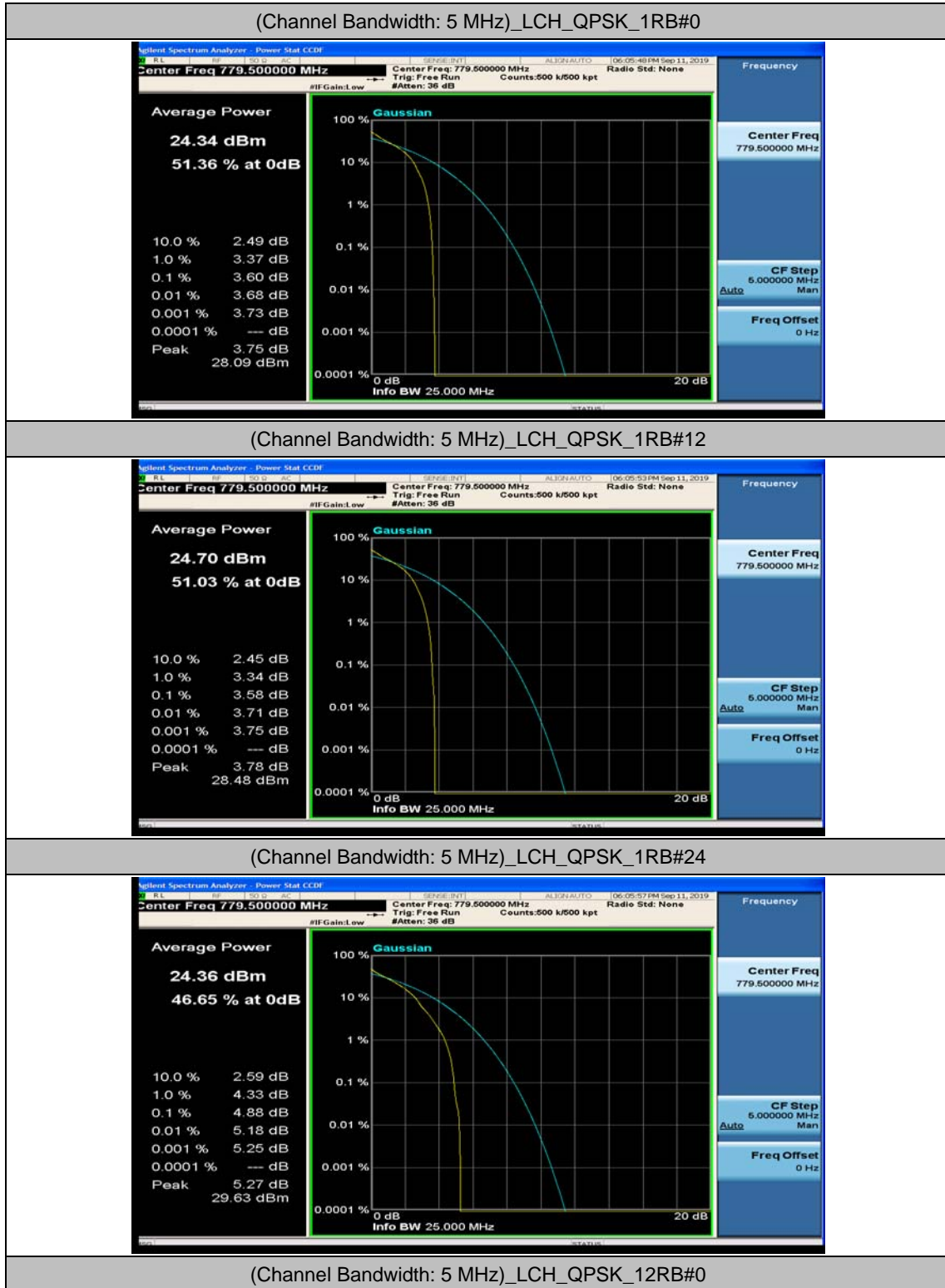
		12	13	6.41	<13	PASS
		25	0	6.13	<13	PASS
	HCH	1	0	5.96	<13	PASS
		1	12	5.27	<13	PASS
		1	24	5.45	<13	PASS
		12	0	6.2	<13	PASS
		12	6	6.08	<13	PASS
		12	13	5.97	<13	PASS
		25	0	6.21	<13	PASS

### 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	3.57	<13	PASS
		1	24	4.92	<13	PASS
		1	49	4.39	<13	PASS
		25	0	5.28	<13	PASS
		25	12	5.32	<13	PASS
		25	25	5.36	<13	PASS
		50	0	5.27	<13	PASS
16QAM	MCH	1	0	4.47	<13	PASS
		1	24	5.84	<13	PASS
		1	49	5.26	<13	PASS
		25	0	6.07	<13	PASS
		25	12	6.22	<13	PASS
		25	25	6.25	<13	PASS
		50	0	6.09	<13	PASS

## Test Graphs

### Channel Bandwidth: 5 MHz





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



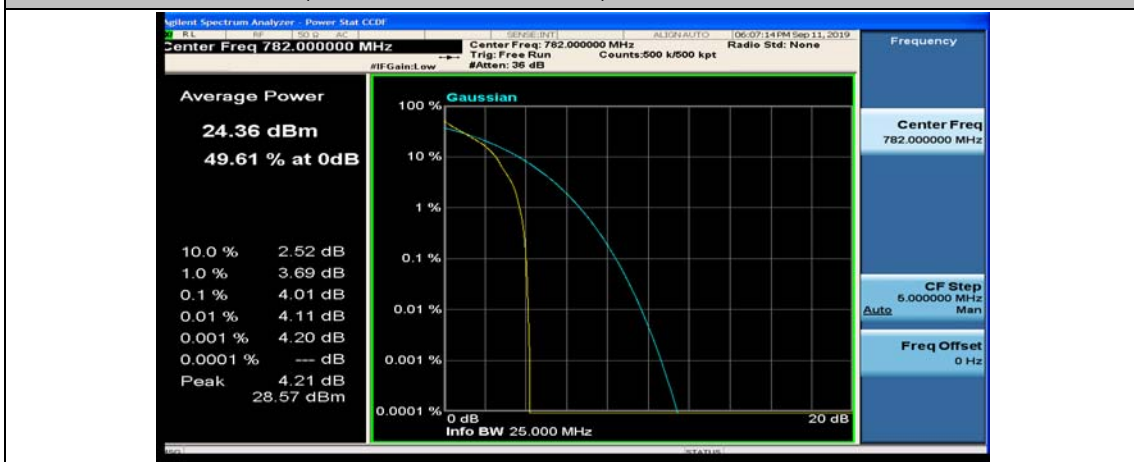
(Channel Bandwidth: 5 MHz)\_LCH\_QPSK\_12RB#13



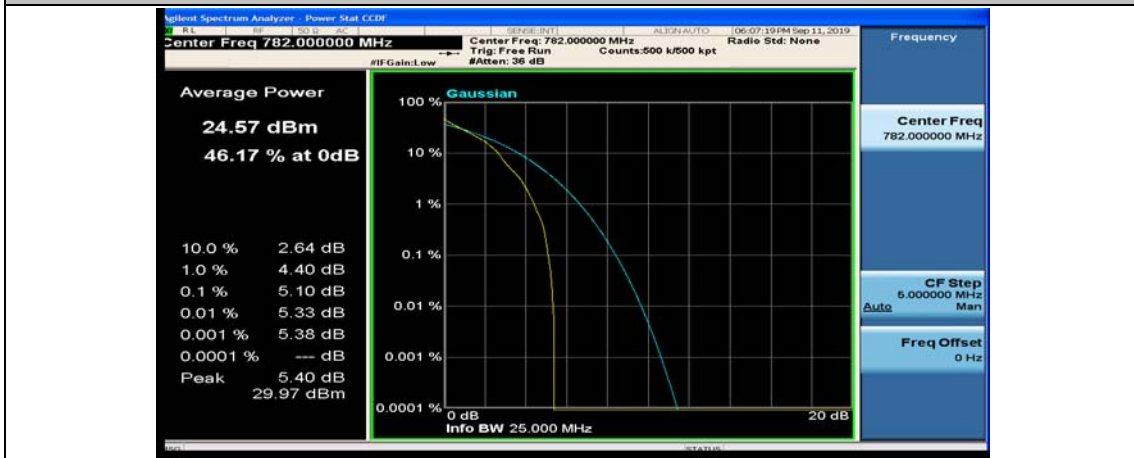
(Channel Bandwidth: 5 MHz)\_LCH\_QPSK\_25RB#0



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



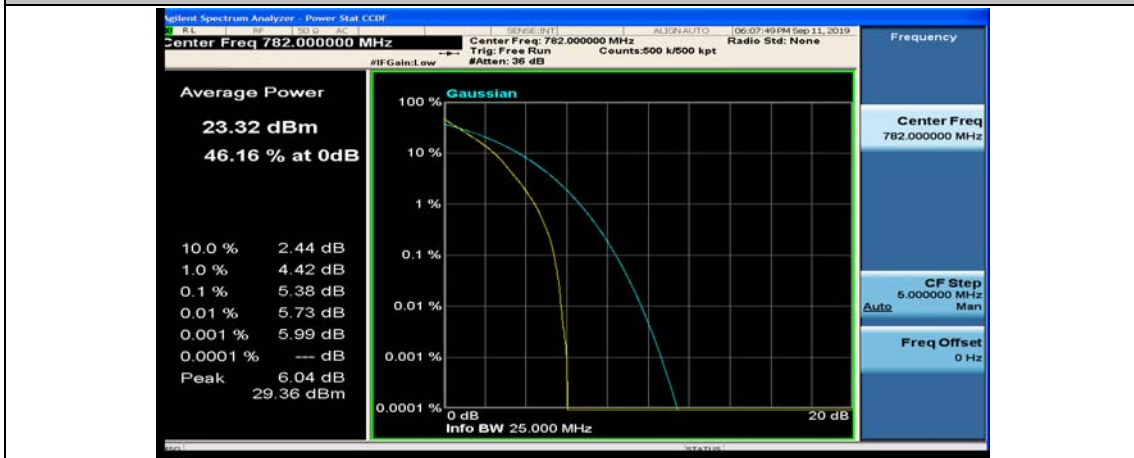
(Channel Bandwidth: 5 MHz)\_MCH\_QPSK\_1RB#12



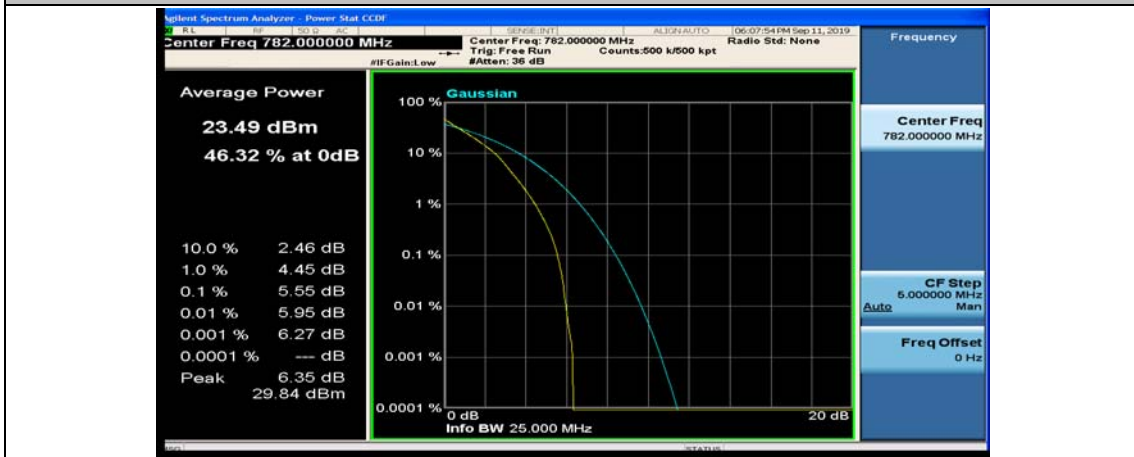
(Channel Bandwidth: 5 MHz)\_MCH\_QPSK\_1RB#24



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

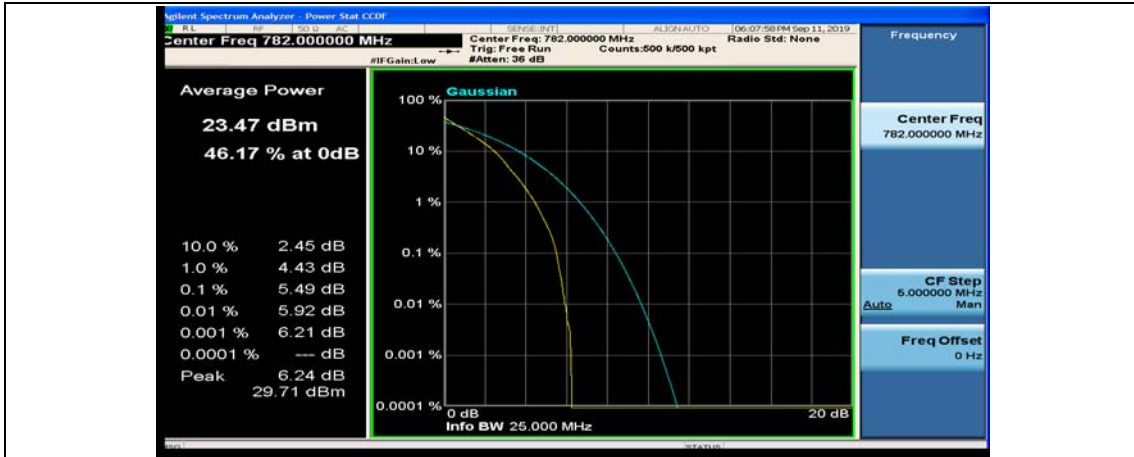


(Channel Bandwidth: 5 MHz)\_MCH\_QPSK\_12RB#6



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

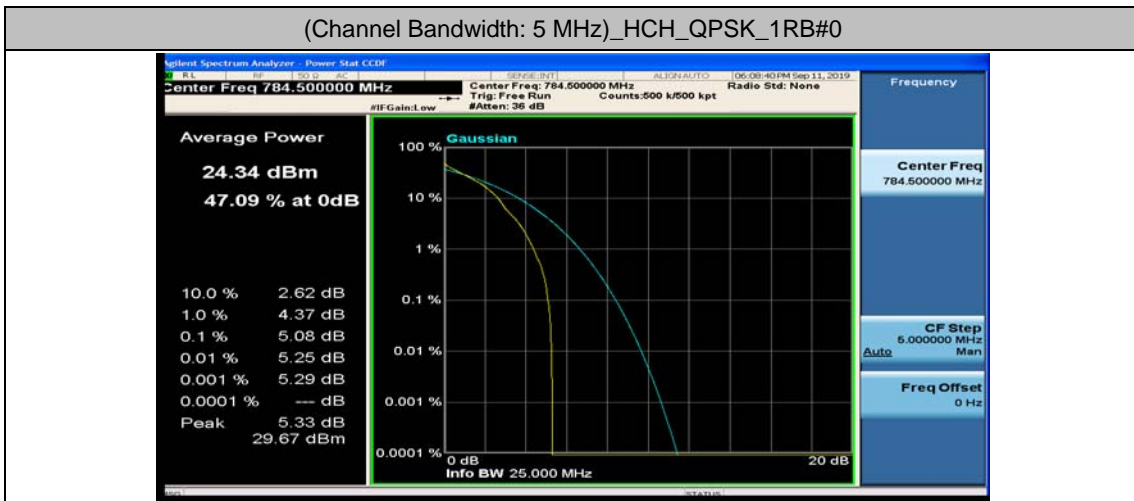




(Channel Bandwidth: 5 MHz)\_MCH\_QPSK\_25RB#0



(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



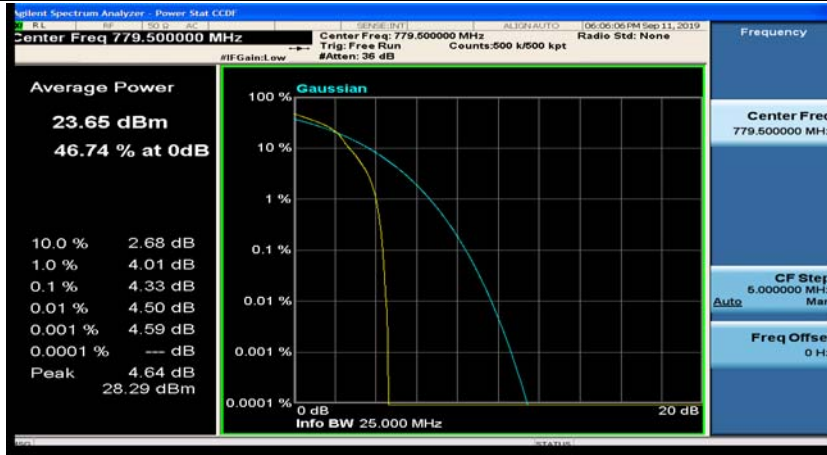
(Channel Bandwidth: 5 MHz)\_HCH\_QPSK\_12RB#13



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



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



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



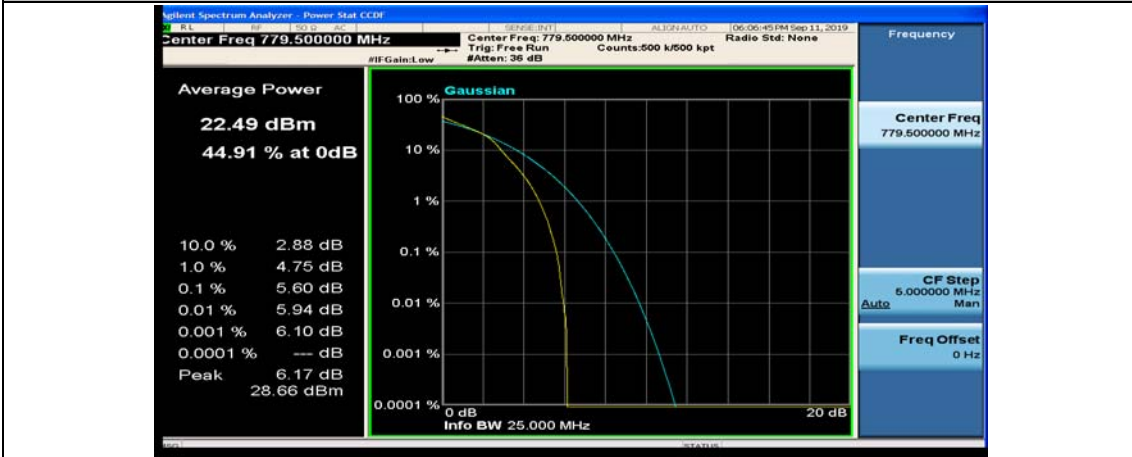
(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_1RB#24



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



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



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

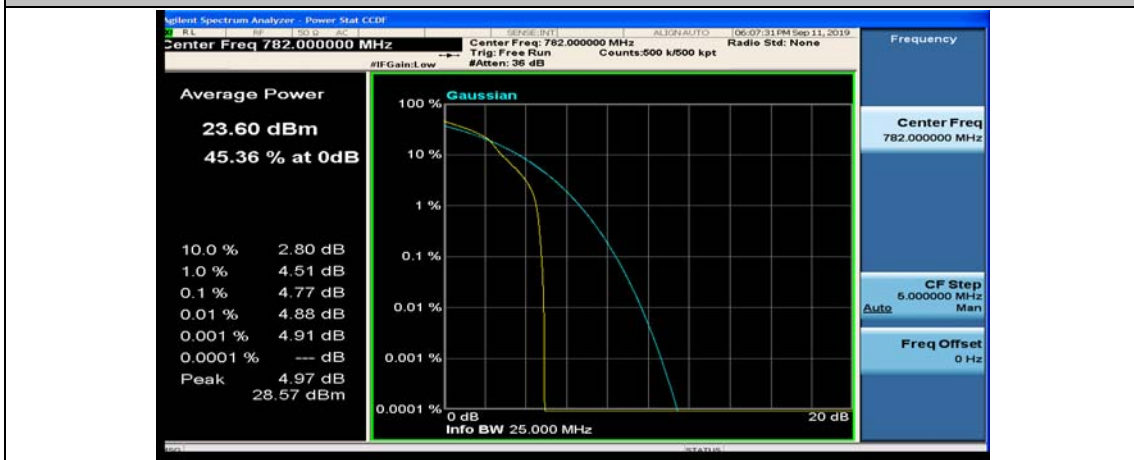


(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_25RB#0





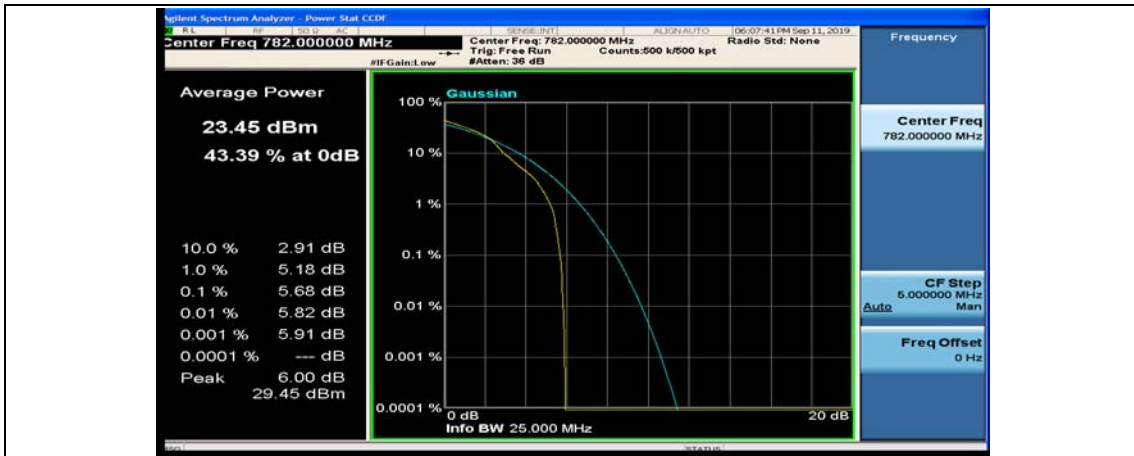
(Channel Bandwidth: 5 MHz)\_MCH\_16QAM\_1RB#0



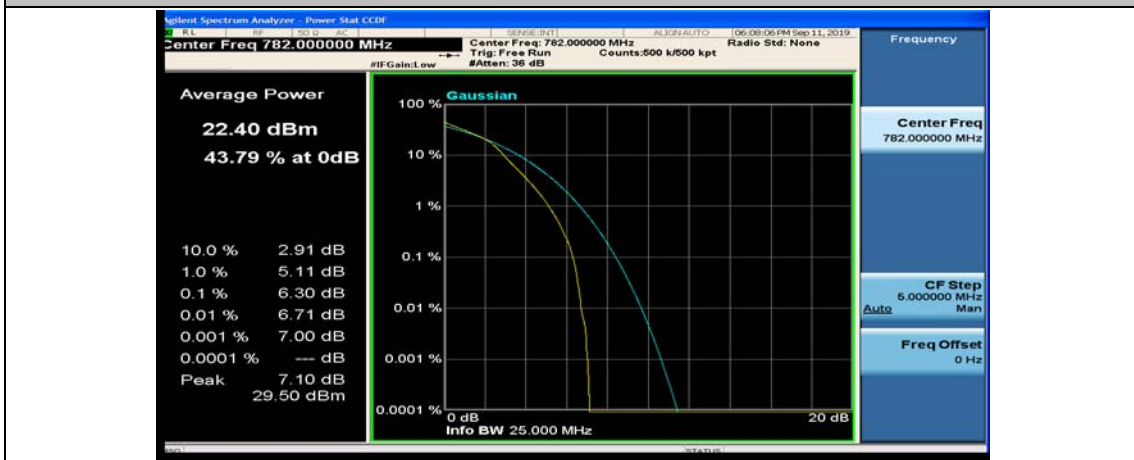
(Channel Bandwidth: 5 MHz)\_MCH\_16QAM\_1RB#12



(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

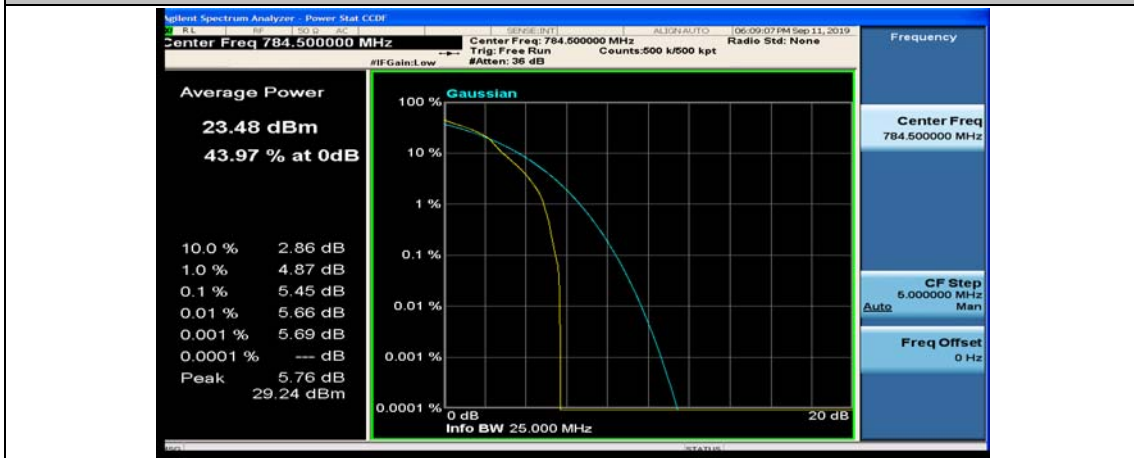


(Channel Bandwidth: 5 MHz)\_HCH\_16QAM\_1RB#12





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



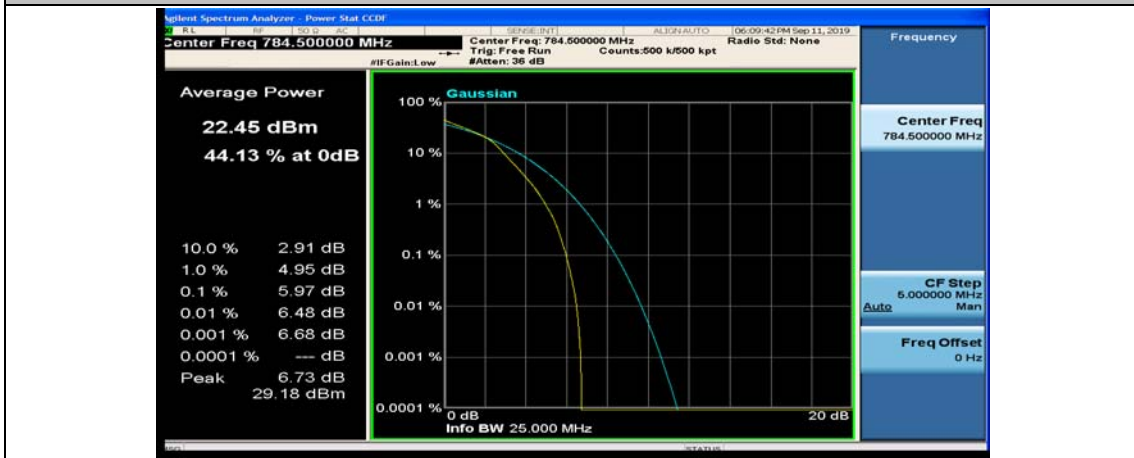
(Channel Bandwidth: 5 MHz)\_HCH\_16QAM\_12RB#0



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



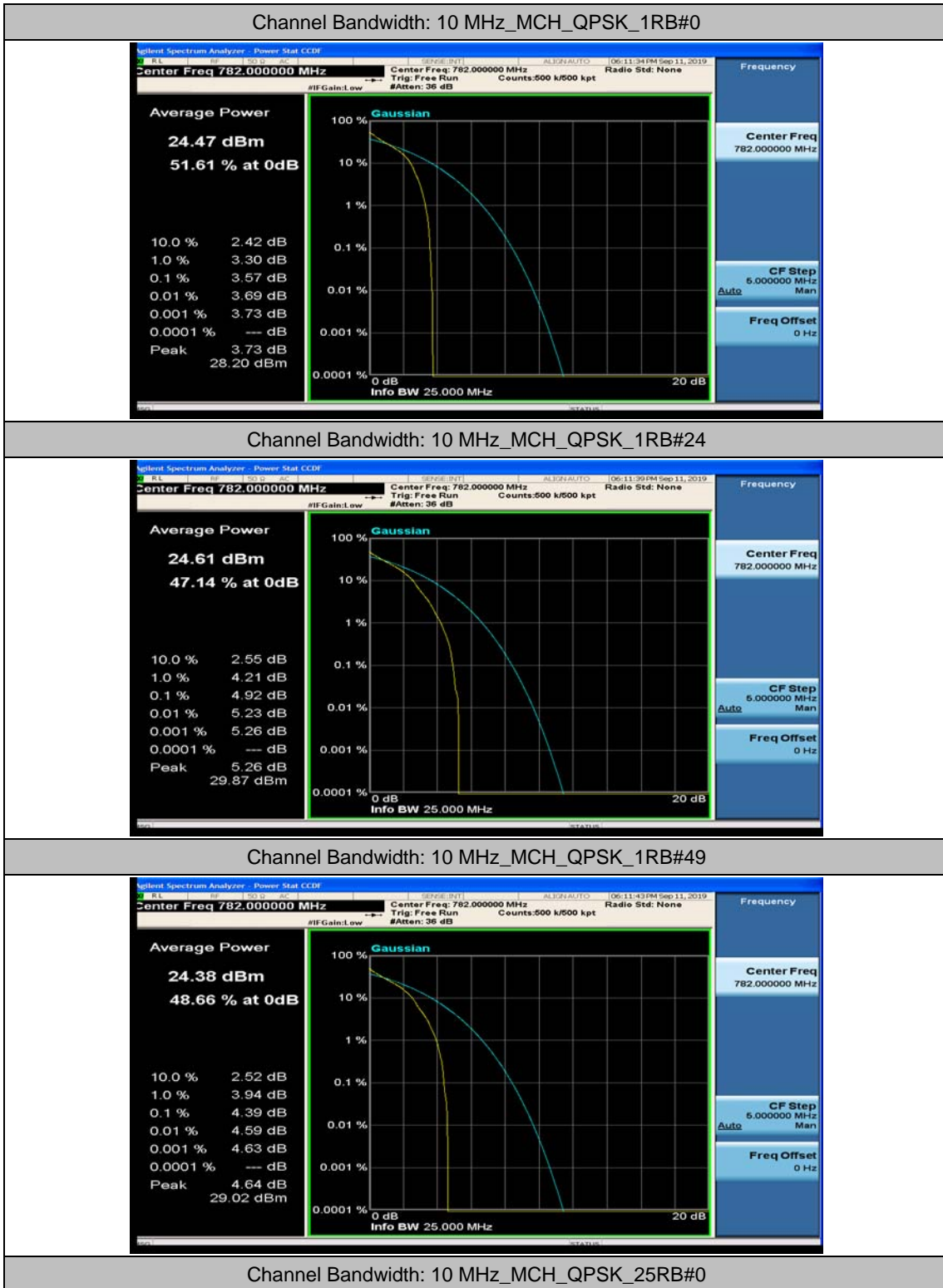
(Channel Bandwidth: 5 MHz)\_HCH\_16QAM\_12RB#13



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

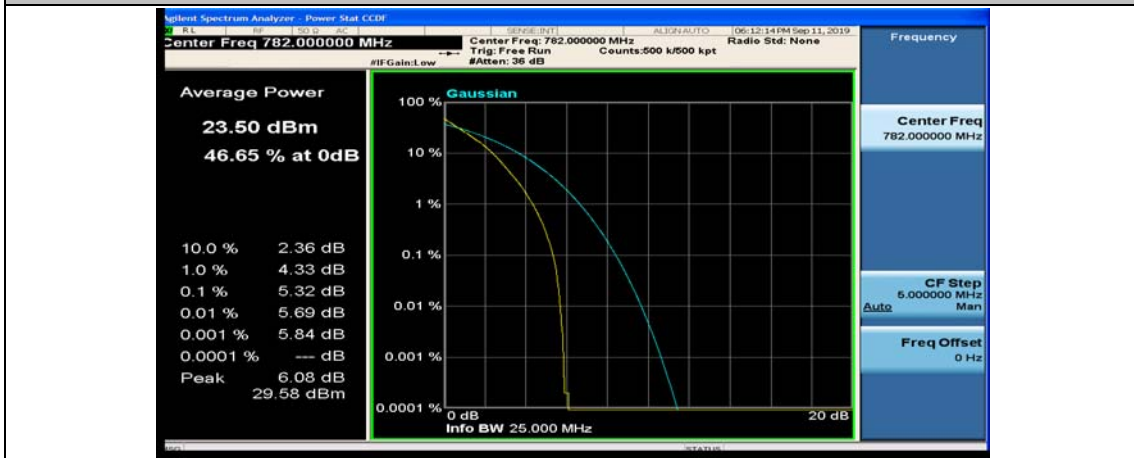


### Channel Bandwidth: 10 MHz

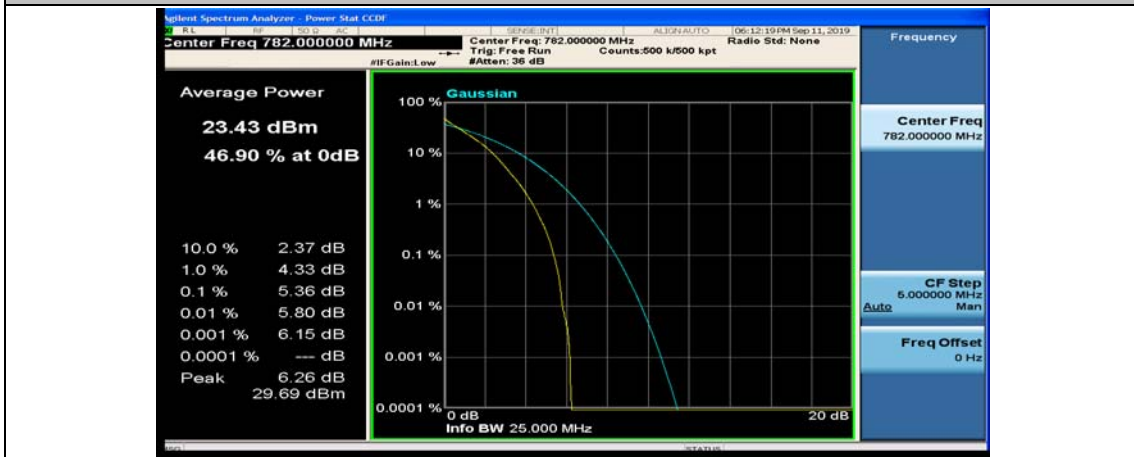




Channel Bandwidth: 10 MHz\_MCH\_QPSK\_25RB#12



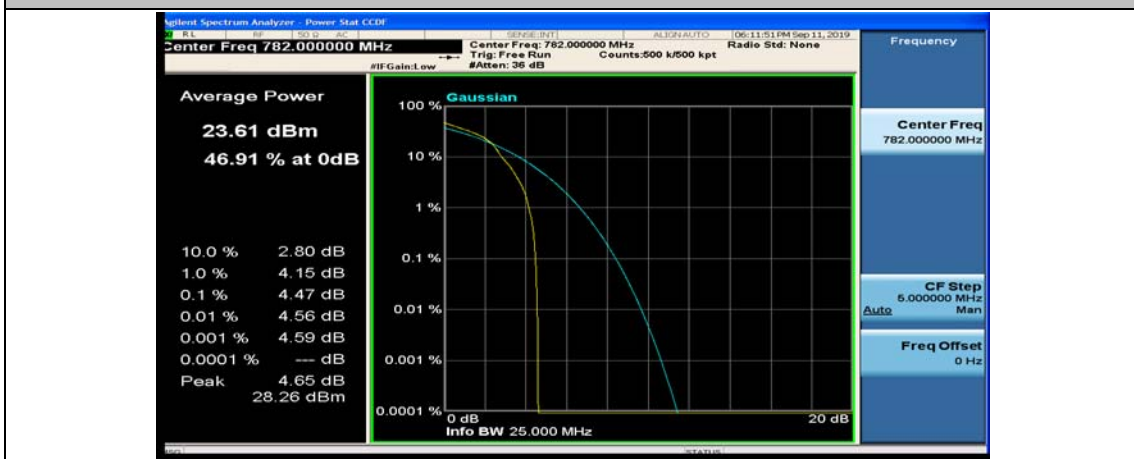
Channel Bandwidth: 10 MHz\_MCH\_QPSK\_25RB#25



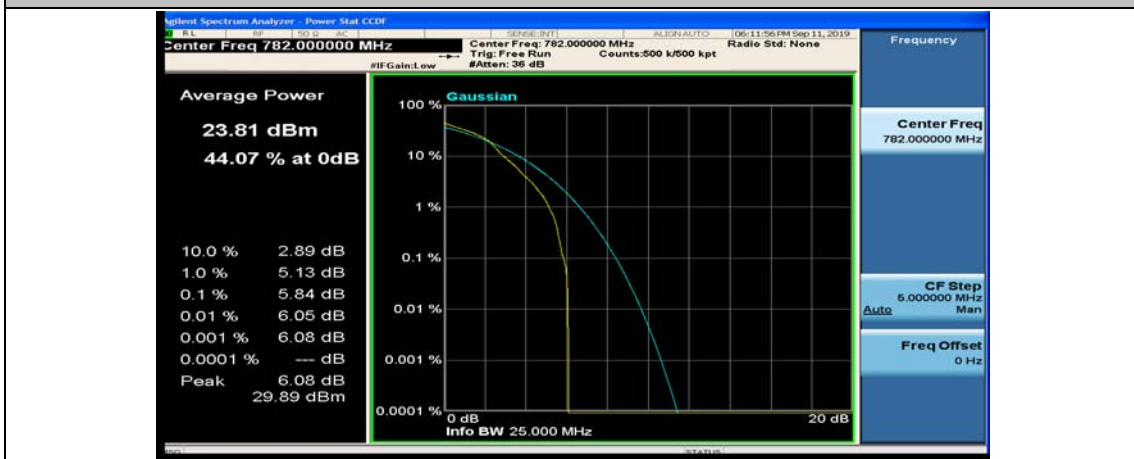
Channel Bandwidth: 10 MHz\_MCH\_QPSK\_50RB#0



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



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

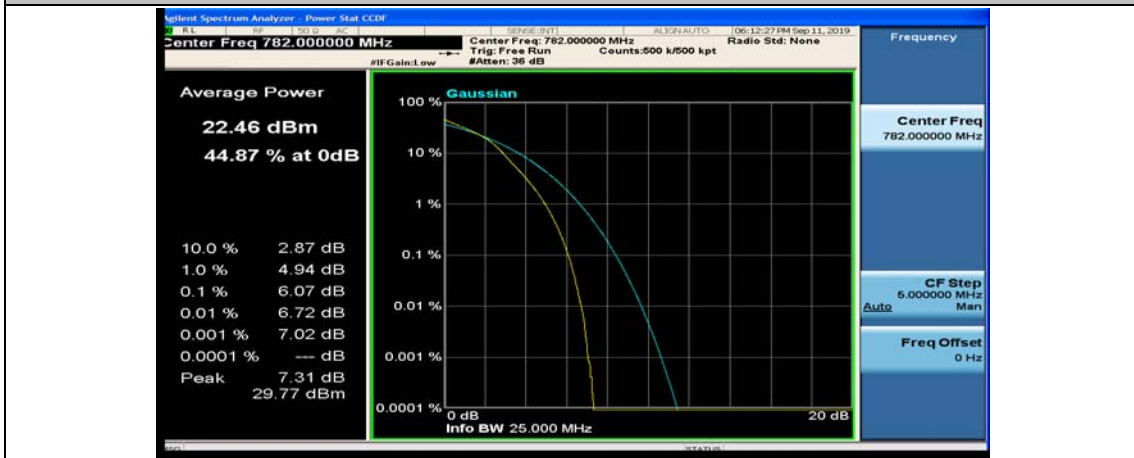


Channel Bandwidth: 10 MHz\_MCH\_16QAM\_1RB#49





Channel Bandwidth: 10 MHz\_MCH\_16QAM\_25RB#0



Channel Bandwidth: 10 MHz\_MCH\_16QAM\_25RB#12



Channel Bandwidth: 10 MHz\_MCH\_16QAM\_25RB#25



## Appendix C: 26dB Bandwidth and Occupied Bandwidth

### Test Result

#### Channel Bandwidth: 5 MHz

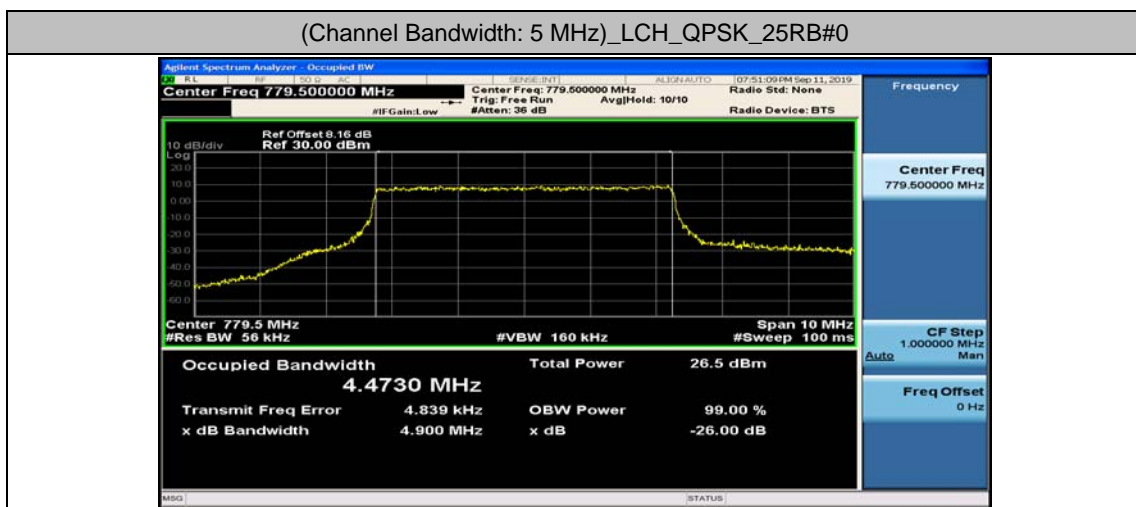
Channel Bandwidth: 5 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	25	0	4.4730	4.900	PASS
	MCH	25	0	4.4711	4.851	PASS
	HCH	25	0	4.4774	4.883	PASS
16QAM	LCH	25	0	4.4821	4.861	PASS
	MCH	25	0	4.4764	4.812	PASS
	HCH	25	0	4.4661	4.819	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	8.9360	9.529	PASS
16QAM	MCH	50	0	8.9331	9.463	PASS

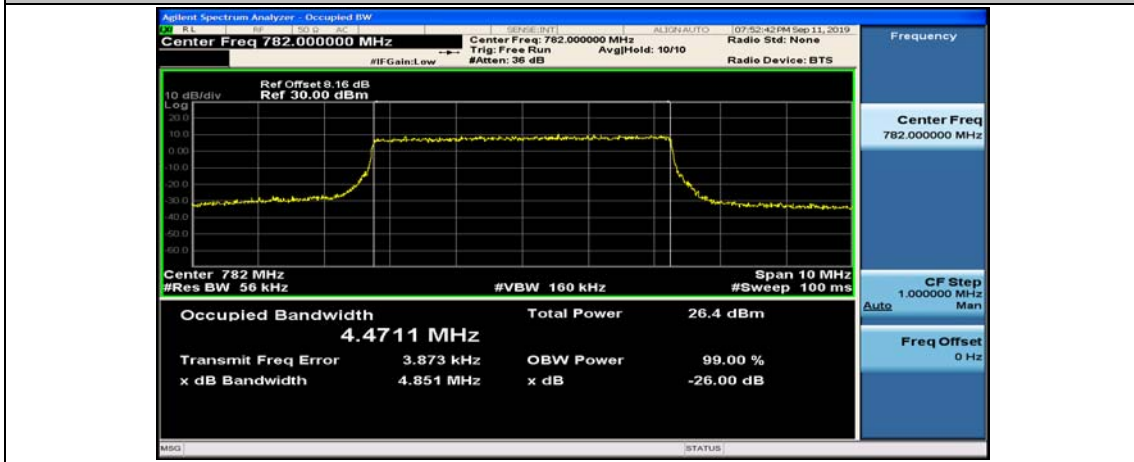
### Test Graphs

#### Channel Bandwidth: 5 MHz

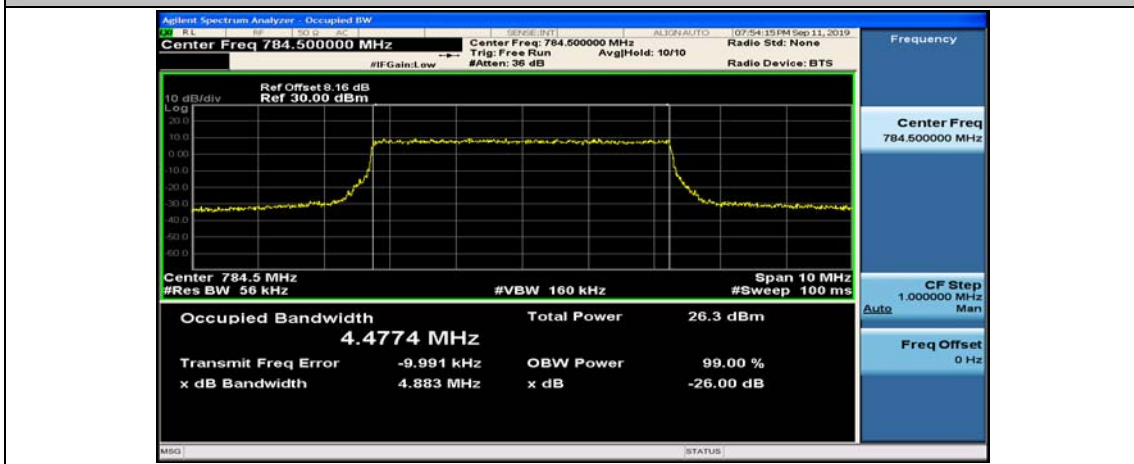




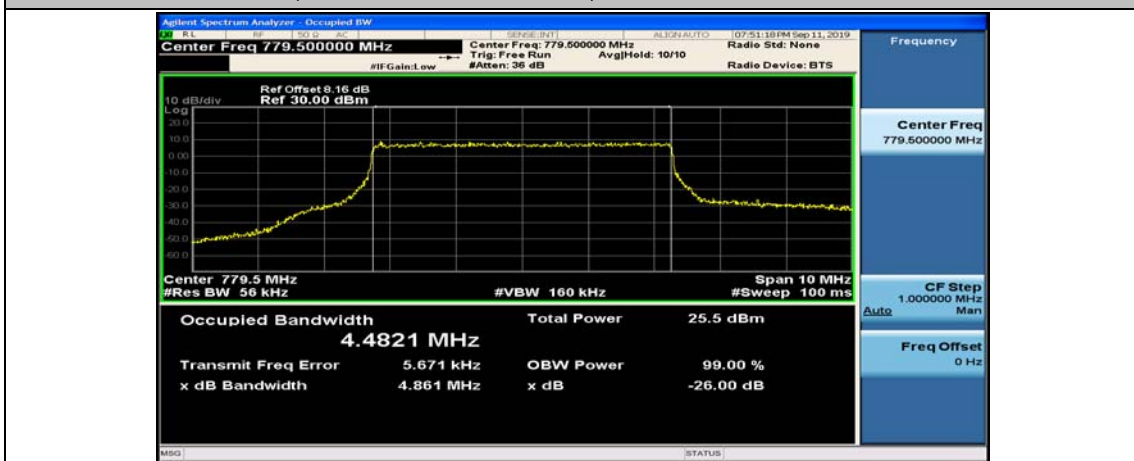
(Channel Bandwidth: 5 MHz)\_MCH\_QPSK\_25RB#0



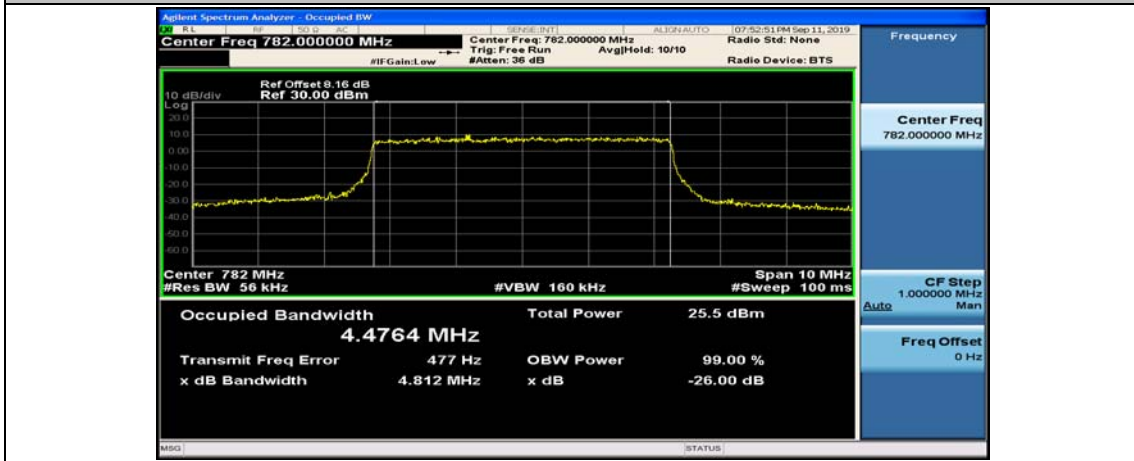
(Channel Bandwidth: 5 MHz)\_HCH\_QPSK\_25RB#0



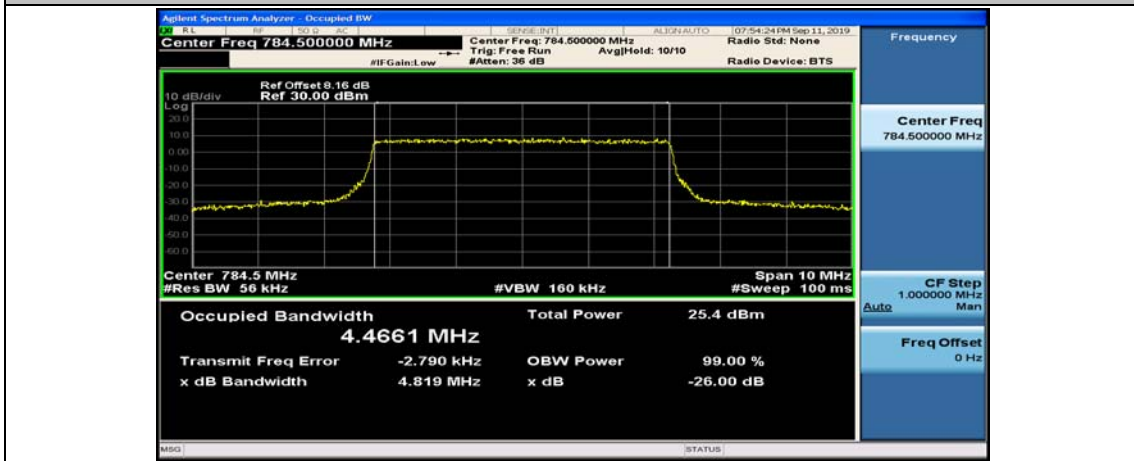
(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_25RB#0



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

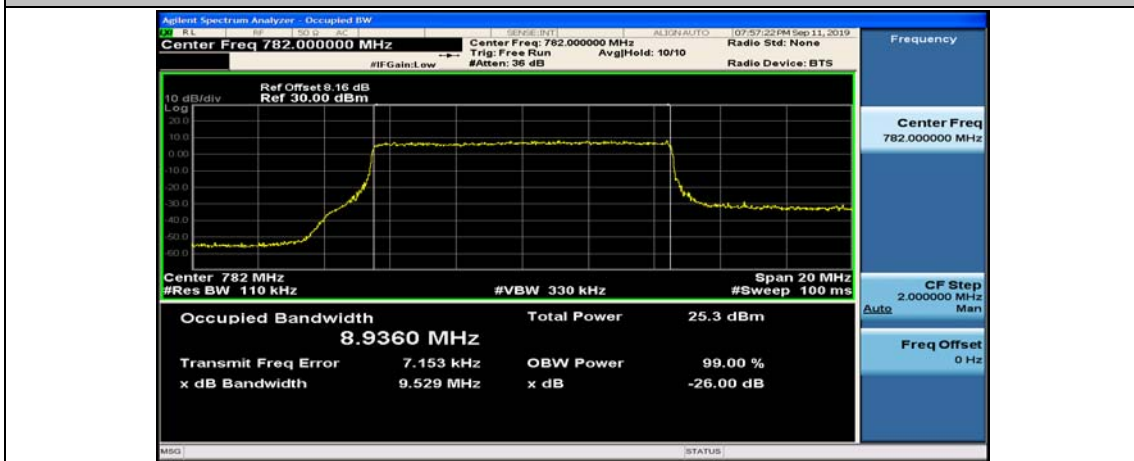


(Channel Bandwidth: 5 MHz)\_HCH\_16QAM\_25RB#0

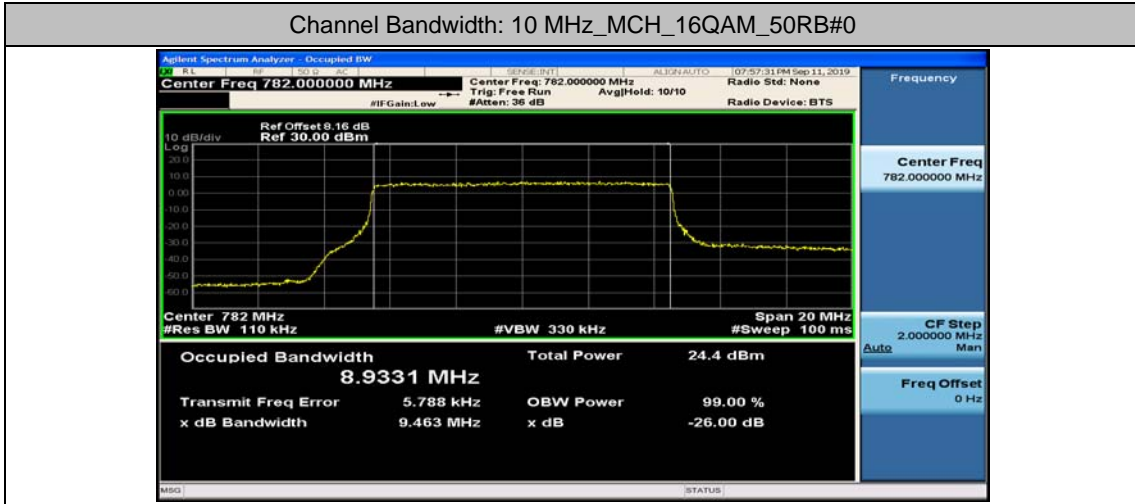


## Channel Bandwidth: 10 MHz

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



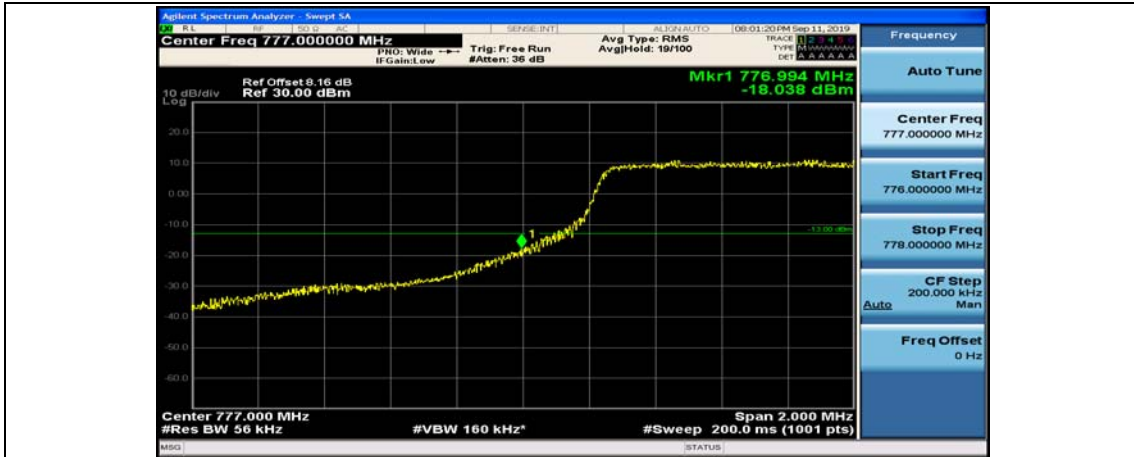
(Channel Bandwidth: 5 MHz)\_LCH\_QPSK\_1RB#12



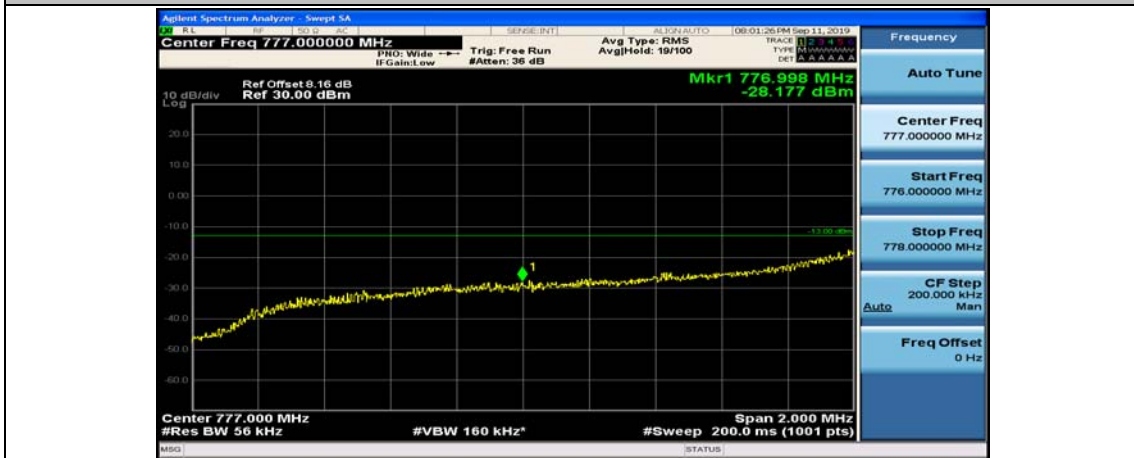
(Channel Bandwidth: 5 MHz)\_LCH\_QPSK\_1RB#24



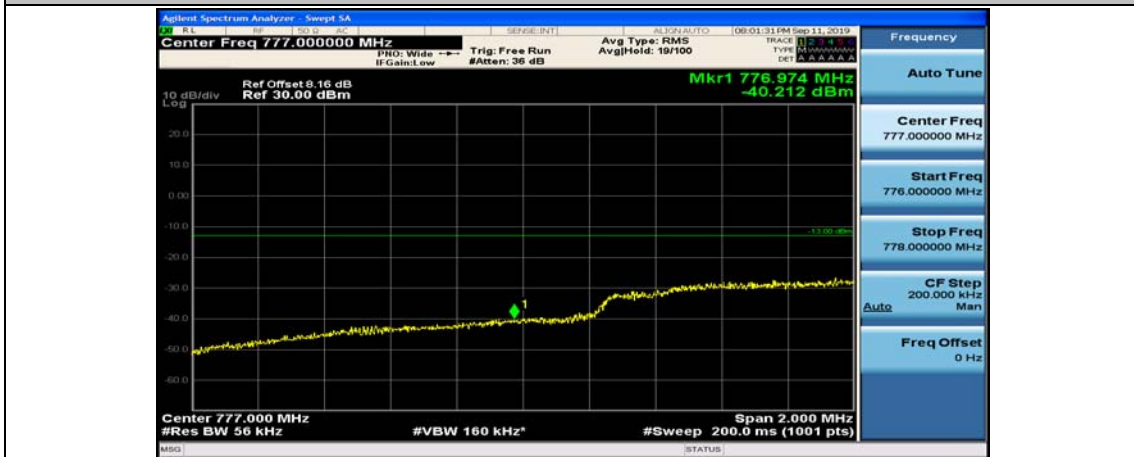
(Channel Bandwidth: 5 MHz)\_LCH\_QPSK\_12RB#0



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



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

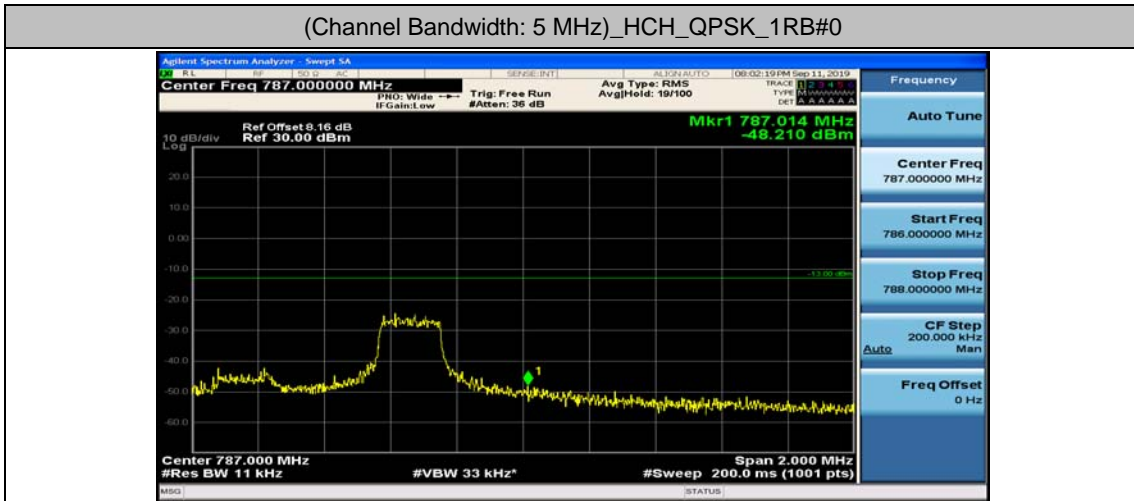


(Channel Bandwidth: 5 MHz)\_LCH\_QPSK\_25RB#0

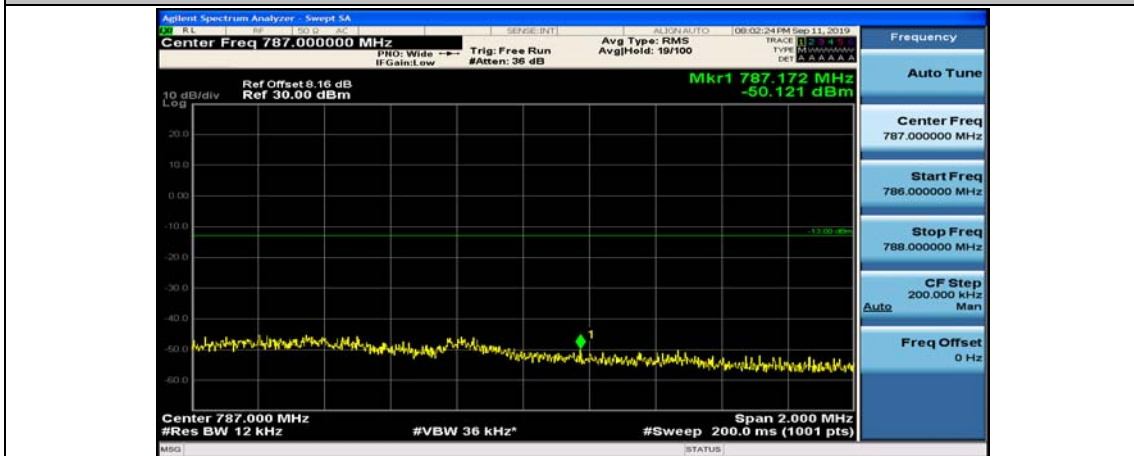




(Channel Bandwidth: 5 MHz)\_HCH\_QPSK\_1RB#0



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



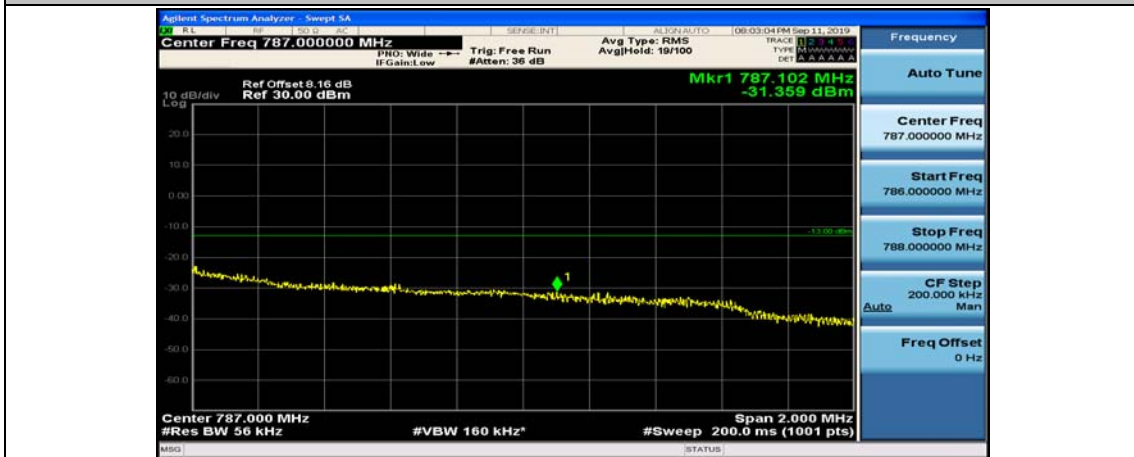
(Channel Bandwidth: 5 MHz)\_HCH\_QPSK\_1RB#24



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



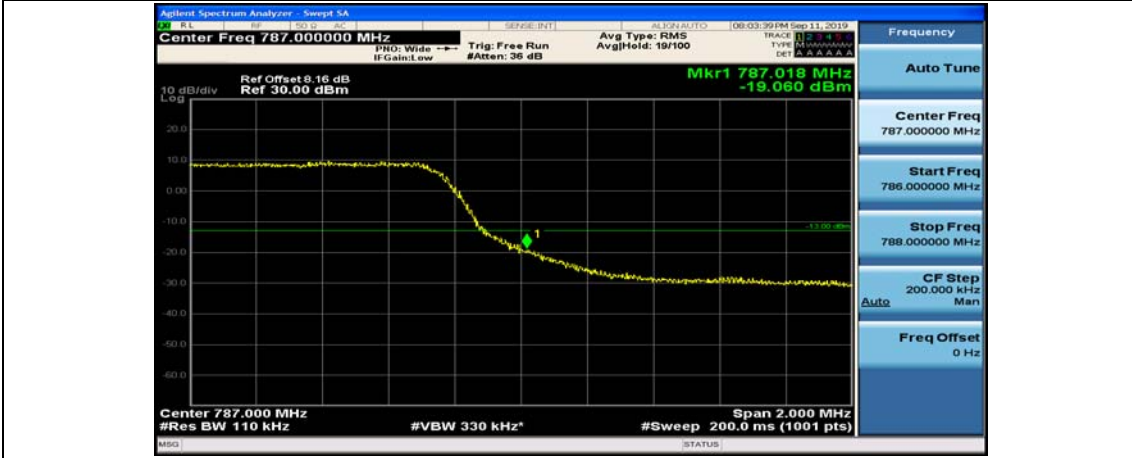
(Channel Bandwidth: 5 MHz)\_HCH\_QPSK\_12RB#6



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



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

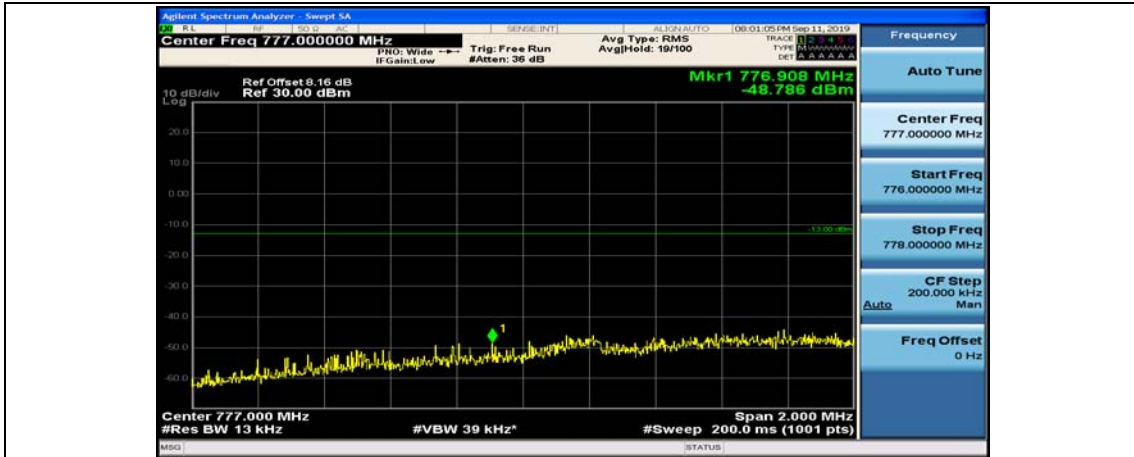


(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_1RB#0

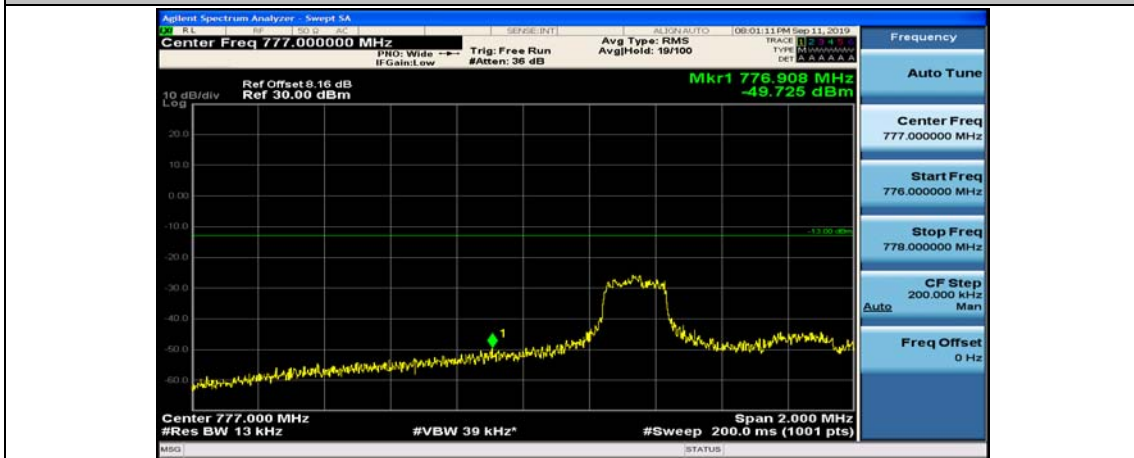


(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_1RB#12

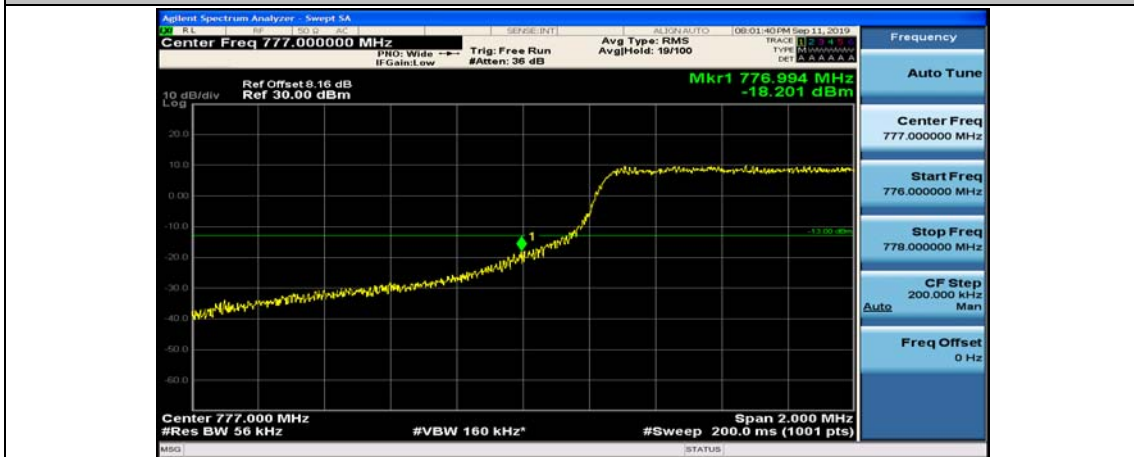




(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_1RB#24



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



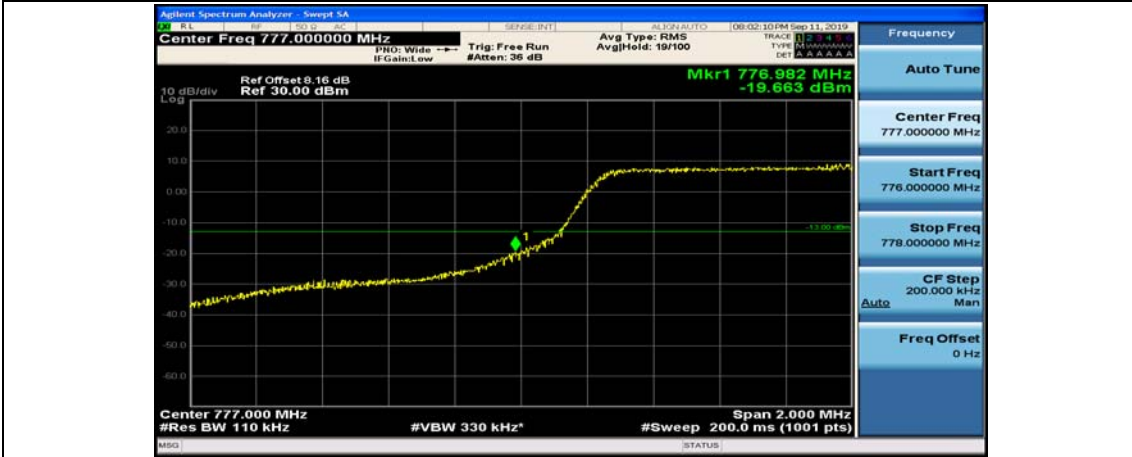
(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_12RB#6



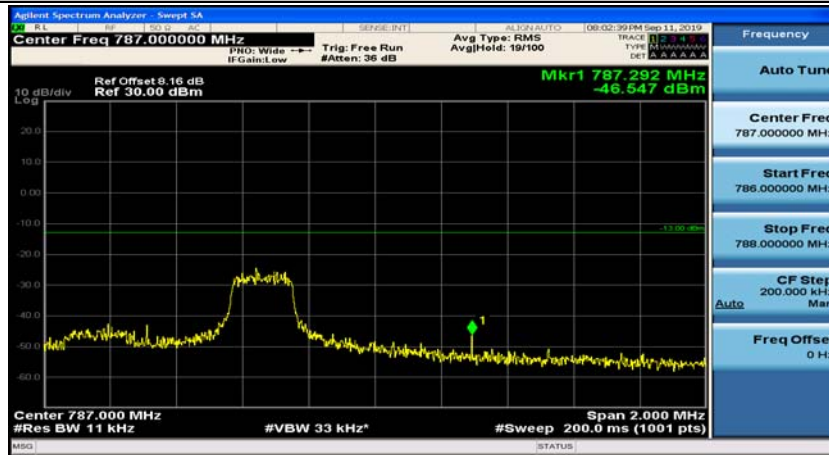
(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_12RB#13



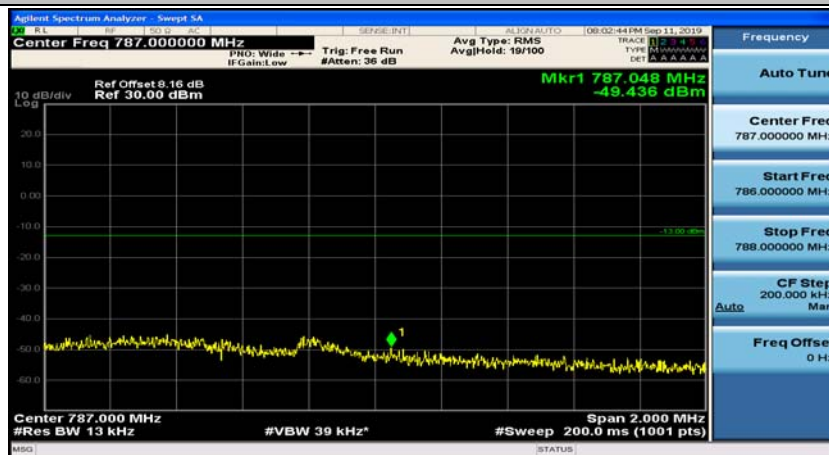
(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_25RB#0



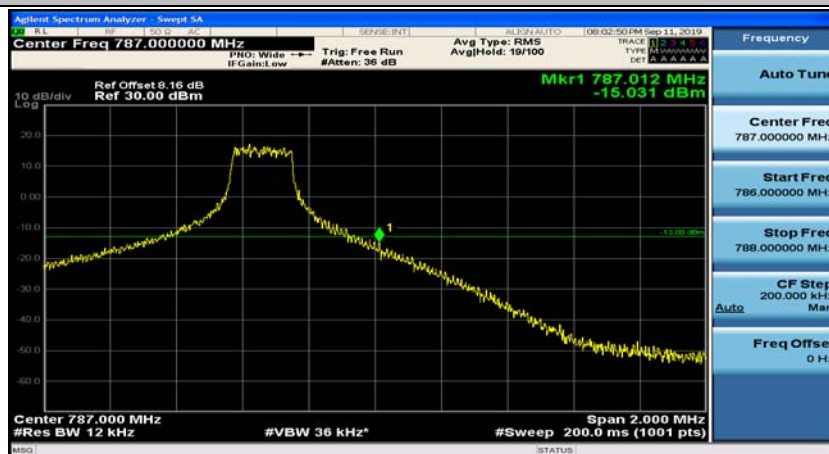
(Channel Bandwidth: 5 MHz)\_HCH\_16QAM\_1RB#0



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



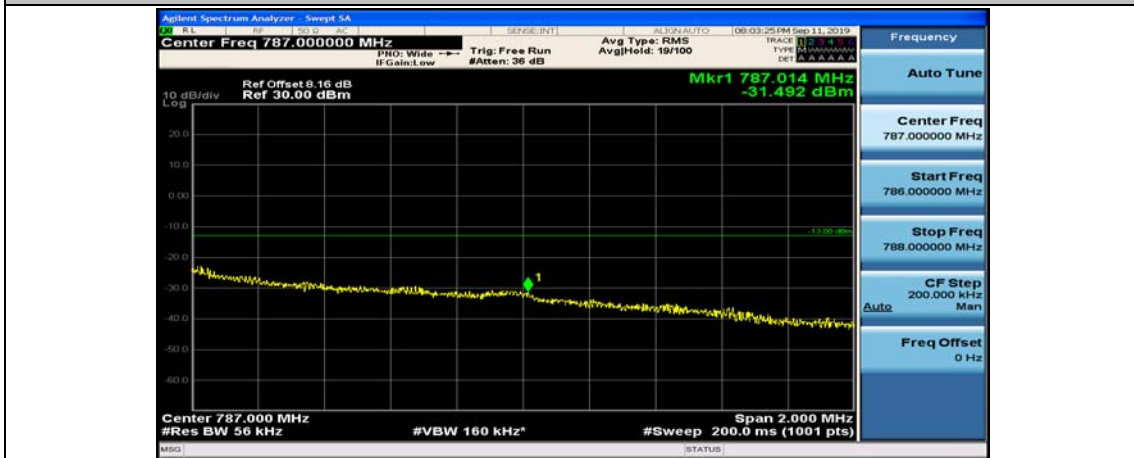
(Channel Bandwidth: 5 MHz)\_HCH\_16QAM\_1RB#24



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



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



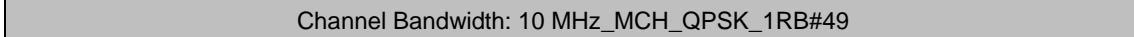
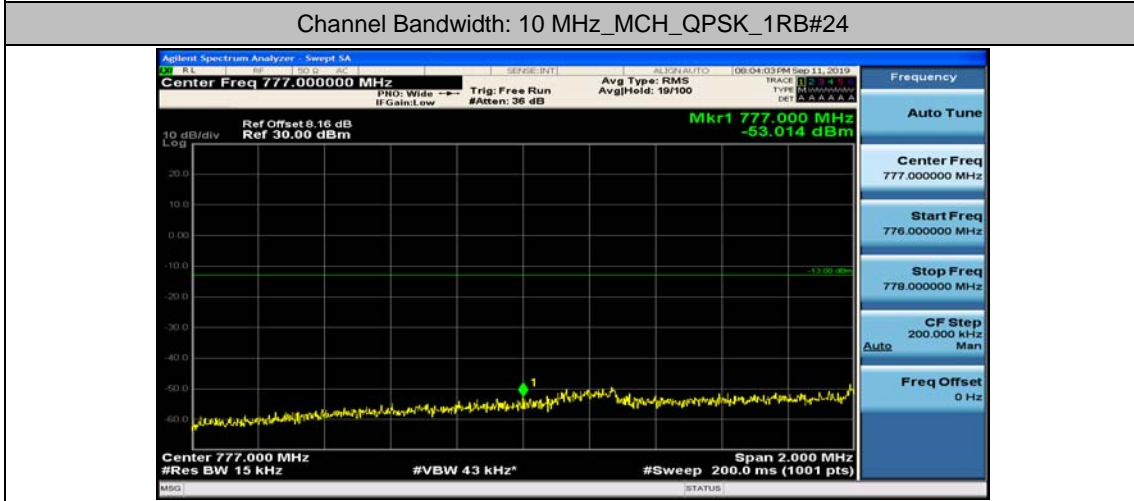
(Channel Bandwidth: 5 MHz)\_HCH\_16QAM\_12RB#13



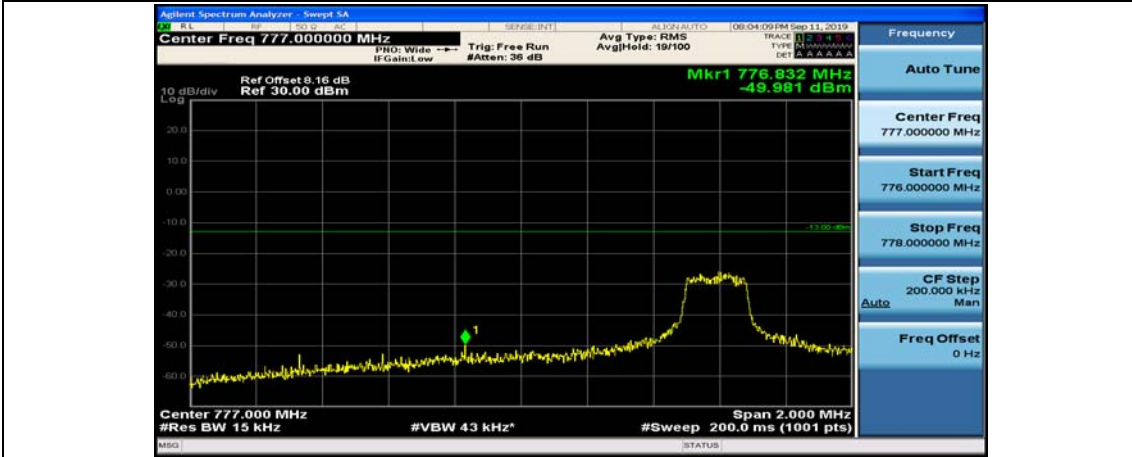
(Channel Bandwidth: 5 MHz)\_HCH\_16QAM\_25RB#0



Channel Bandwidth: 10 MHz



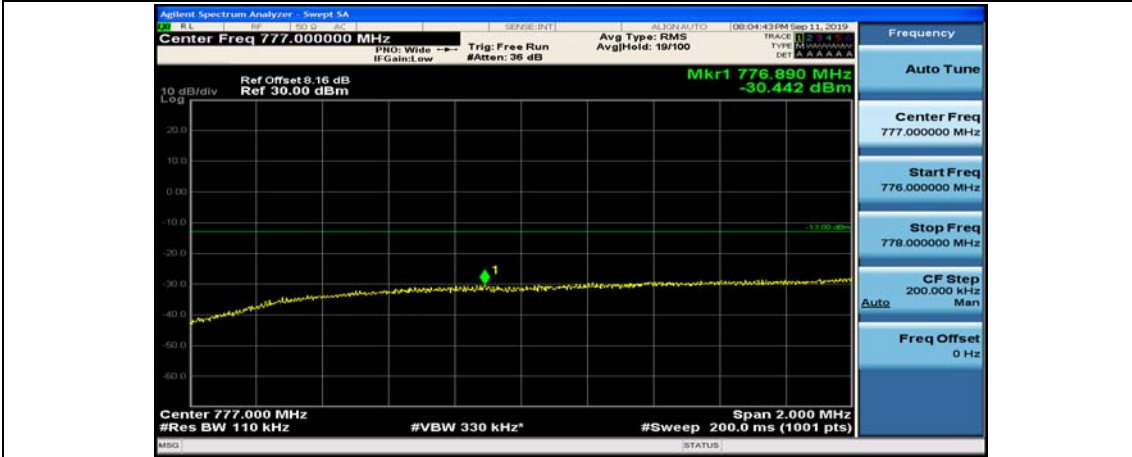




Channel Bandwidth: 10 MHz\_MCH\_QPSK\_25RB#0



Channel Bandwidth: 10 MHz\_MCH\_QPSK\_25RB#12

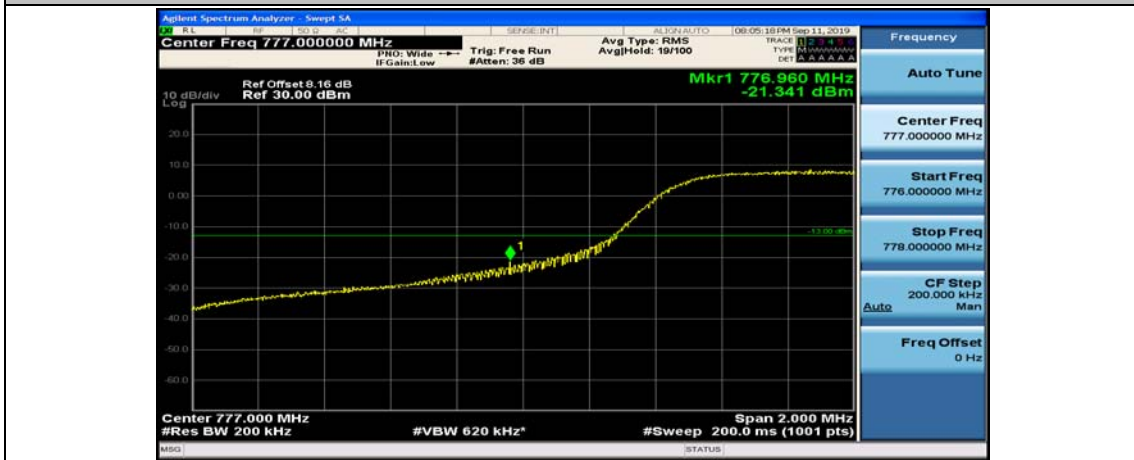


Channel Bandwidth: 10 MHz\_MCH\_QPSK\_25RB#25





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



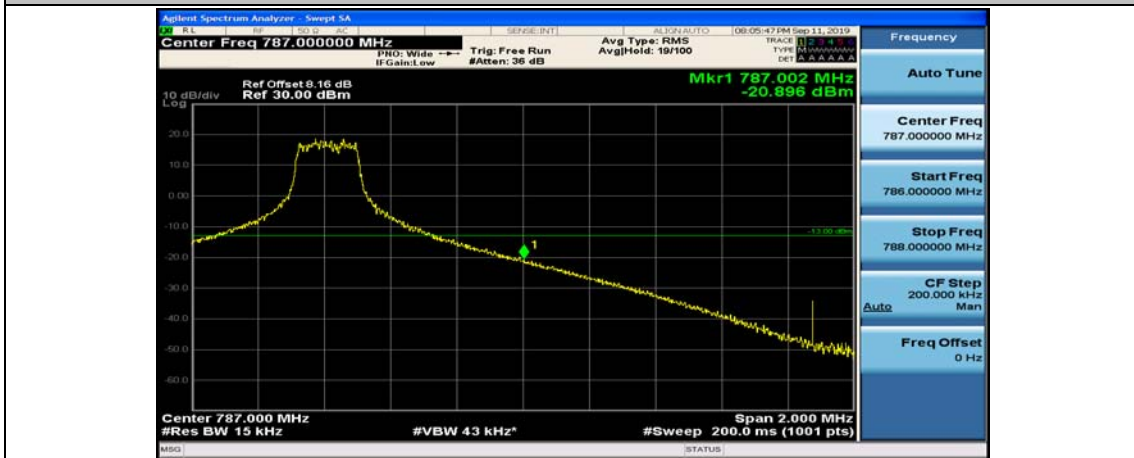
Channel Bandwidth: 10 MHz\_MCH\_QPSK\_1RB#0



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



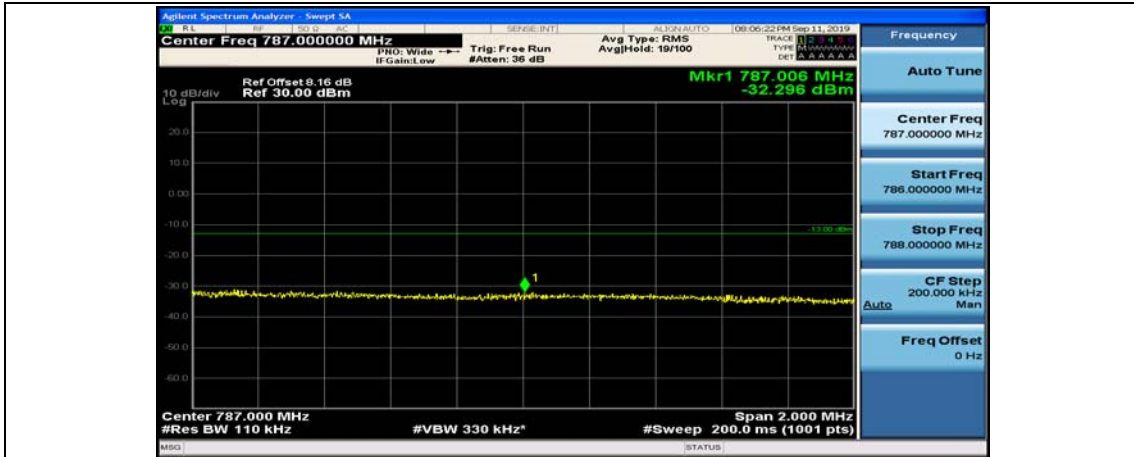
Channel Bandwidth: 10 MHz\_MCH\_QPSK\_1RB#49



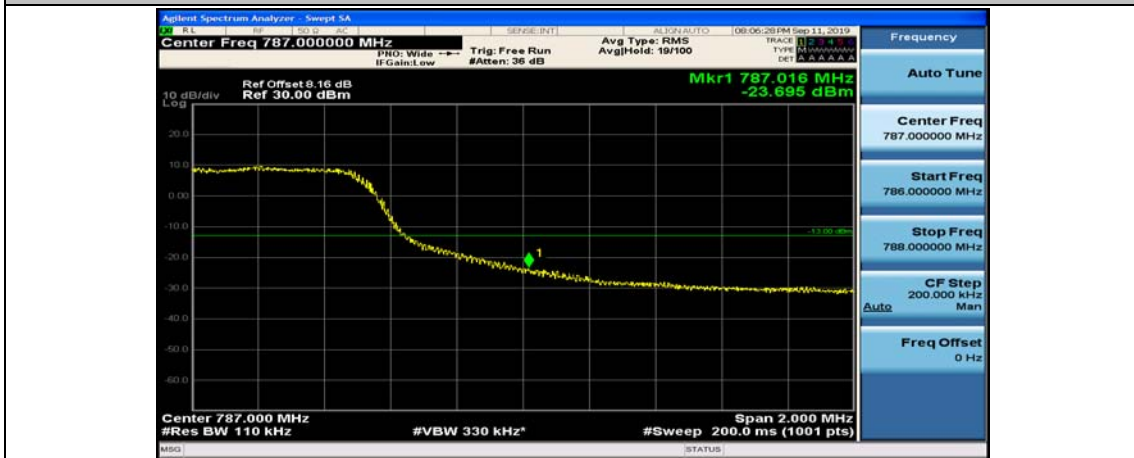
Channel Bandwidth: 10 MHz\_MCH\_QPSK\_25RB#0



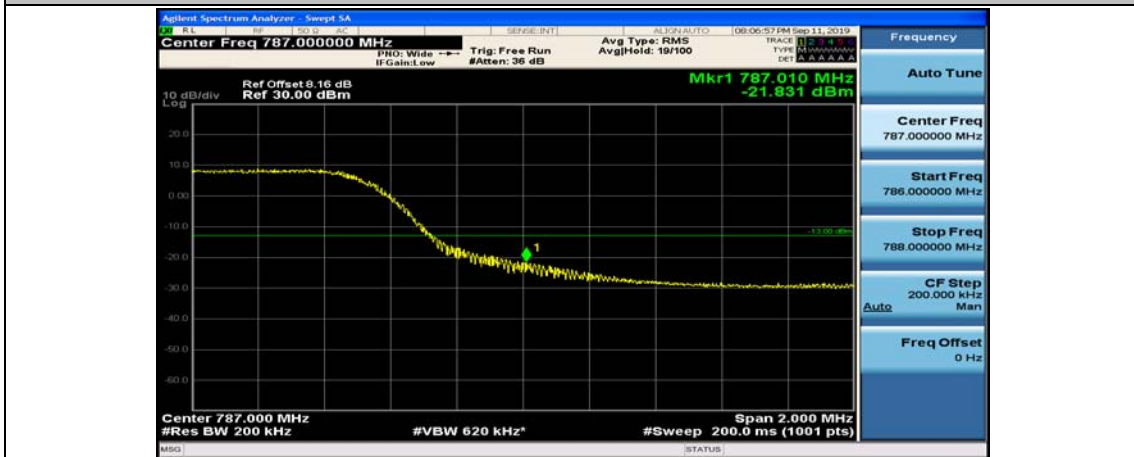
Channel Bandwidth: 10 MHz\_MCH\_QPSK\_25RB#12



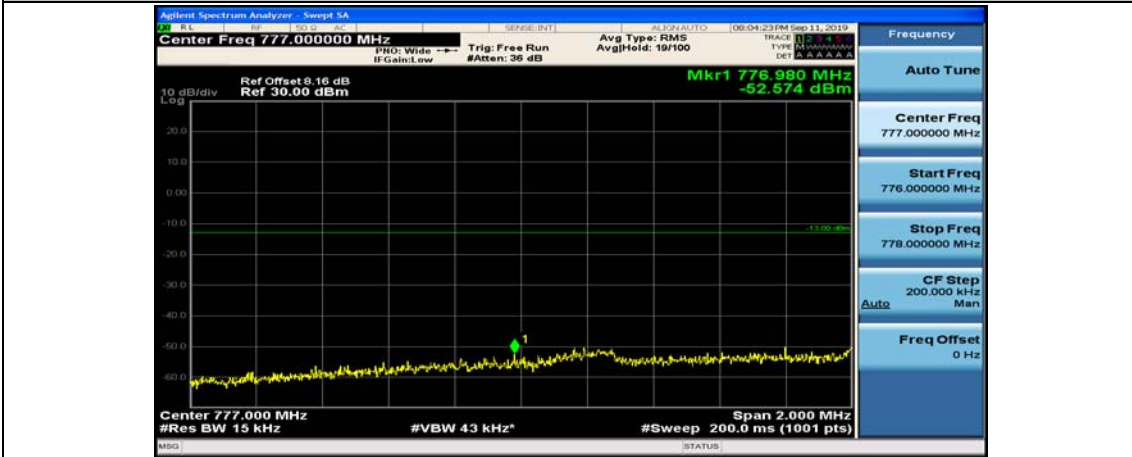
Channel Bandwidth: 10 MHz\_MCH\_QPSK\_25RB#25



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

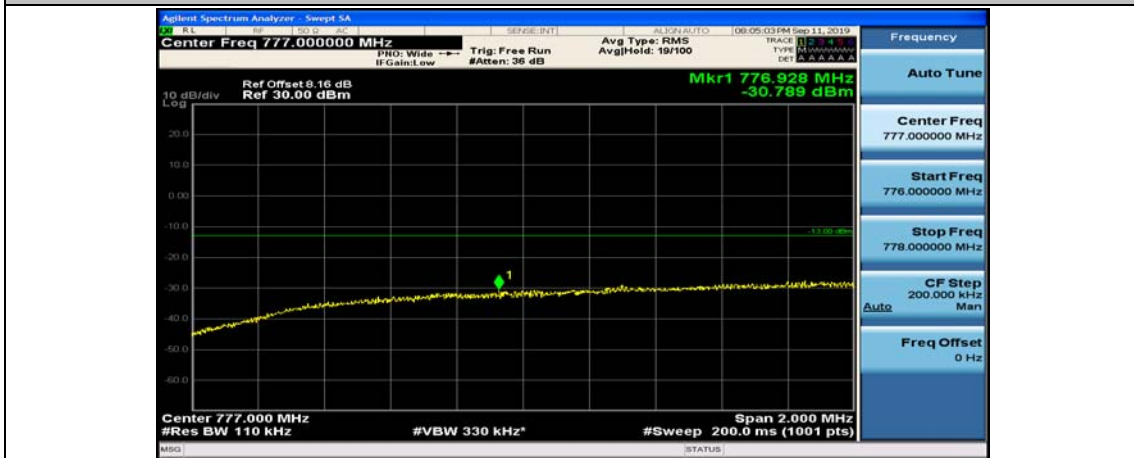


Channel Bandwidth: 10 MHz\_MCH\_16QAM\_1RB#0

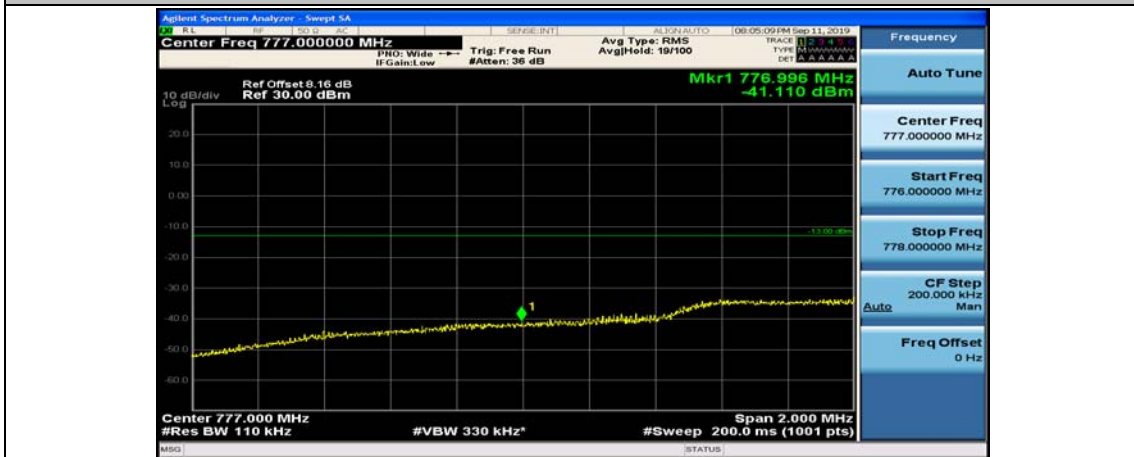




Channel Bandwidth: 10 MHz\_MCH\_16QAM\_25RB#12



Channel Bandwidth: 10 MHz\_LCH\_16QAM\_25RB#25

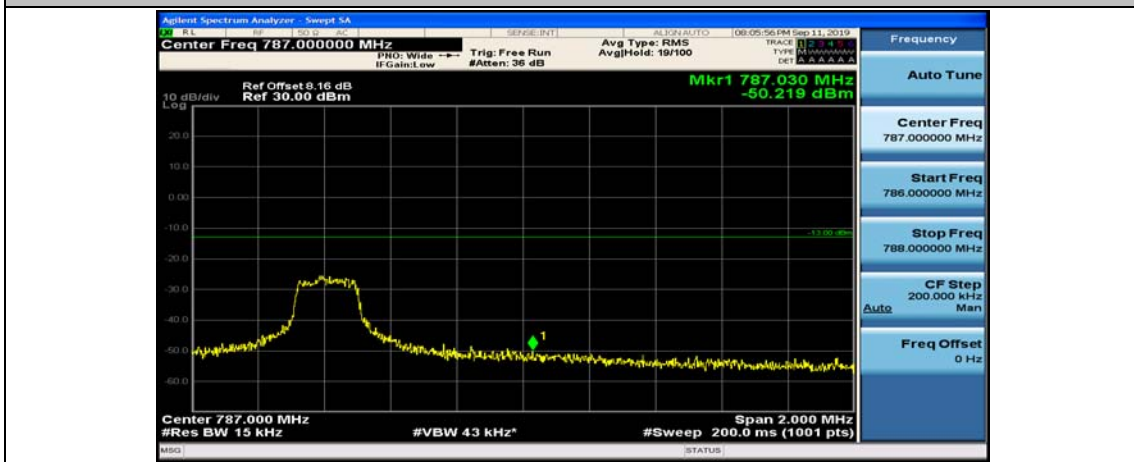


Channel Bandwidth: 10 MHz\_MCH\_16QAM\_50RB#0

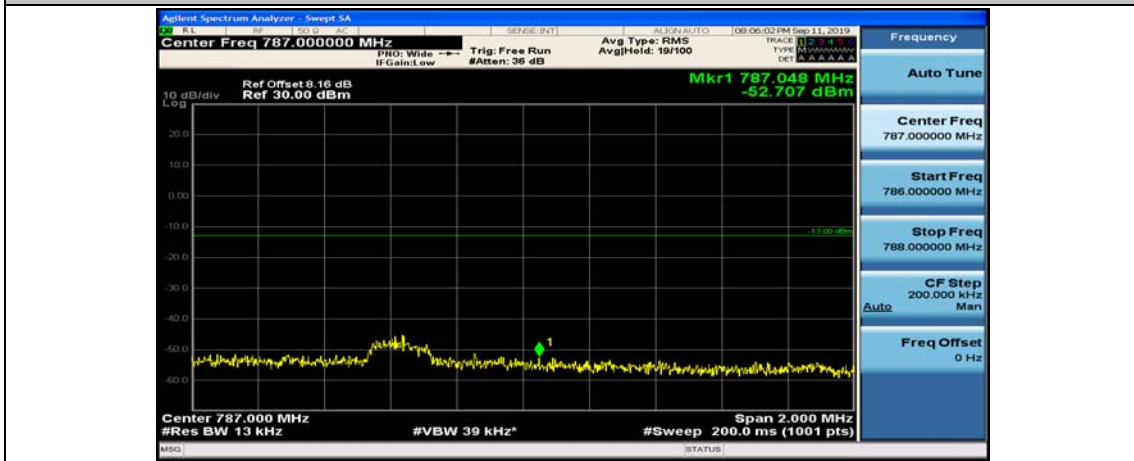




Channel Bandwidth: 10 MHz\_MCH\_16QAM\_1RB#0



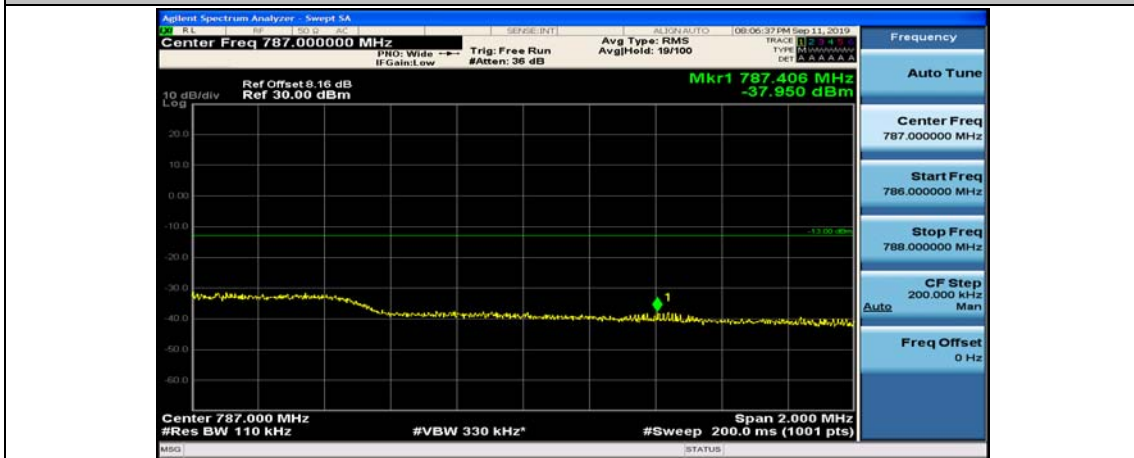
Channel Bandwidth: 10 MHz\_HCH\_16QAM\_1RB#24



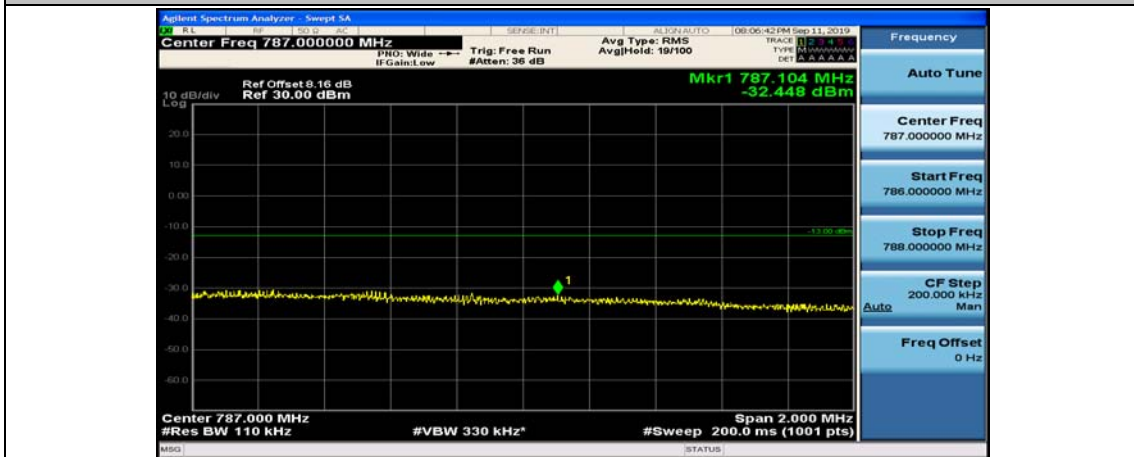
Channel Bandwidth: 10 MHz\_MCH\_16QAM\_1RB#49



Channel Bandwidth: 10 MHz\_MCH\_16QAM\_25RB#0



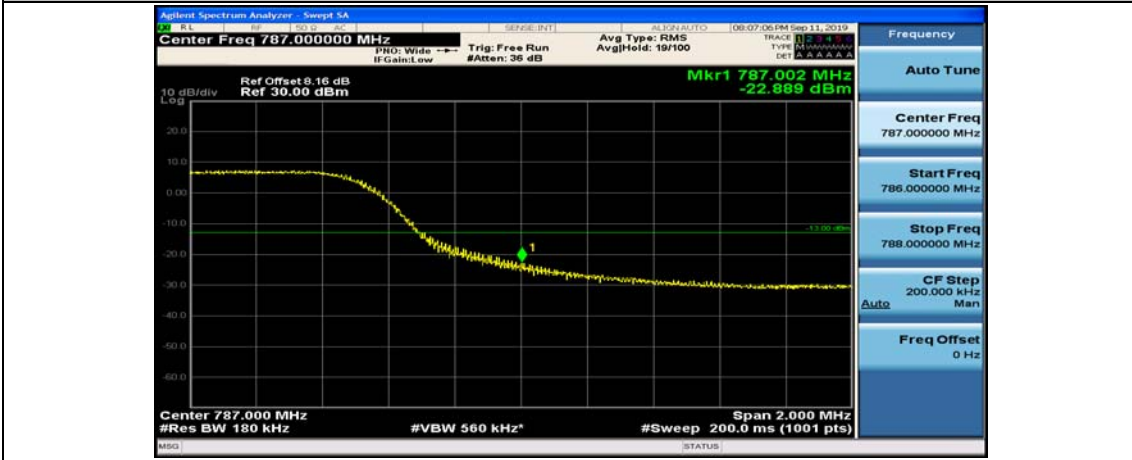
Channel Bandwidth: 10 MHz\_MCH\_16QAM\_25RB#12



Channel Bandwidth: 10 MHz\_MCH\_16QAM\_25RB#25



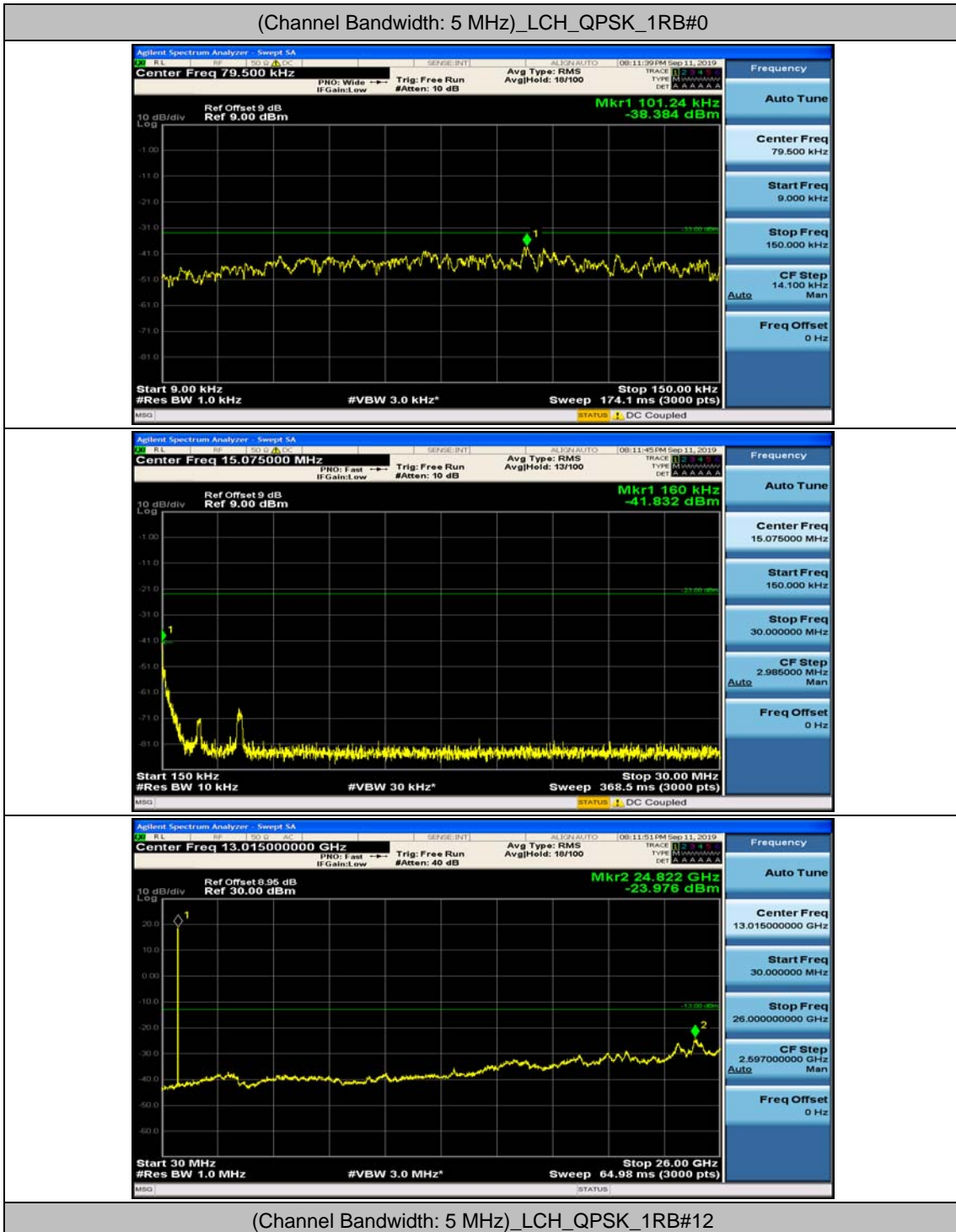
Channel Bandwidth: 10 MHz\_MCH\_16QAM\_50RB#0

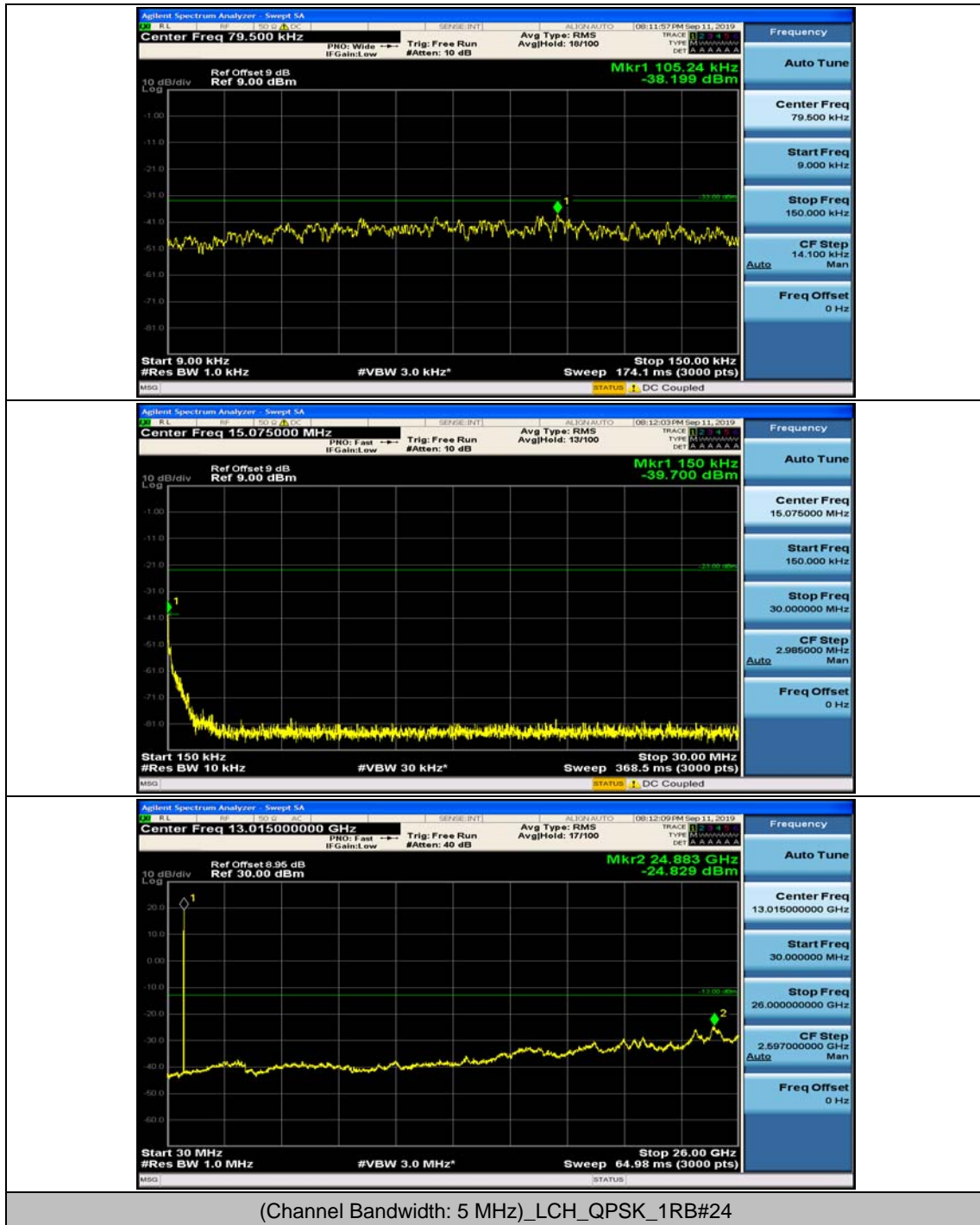


## Appendix E: Conducted Spurious Emission

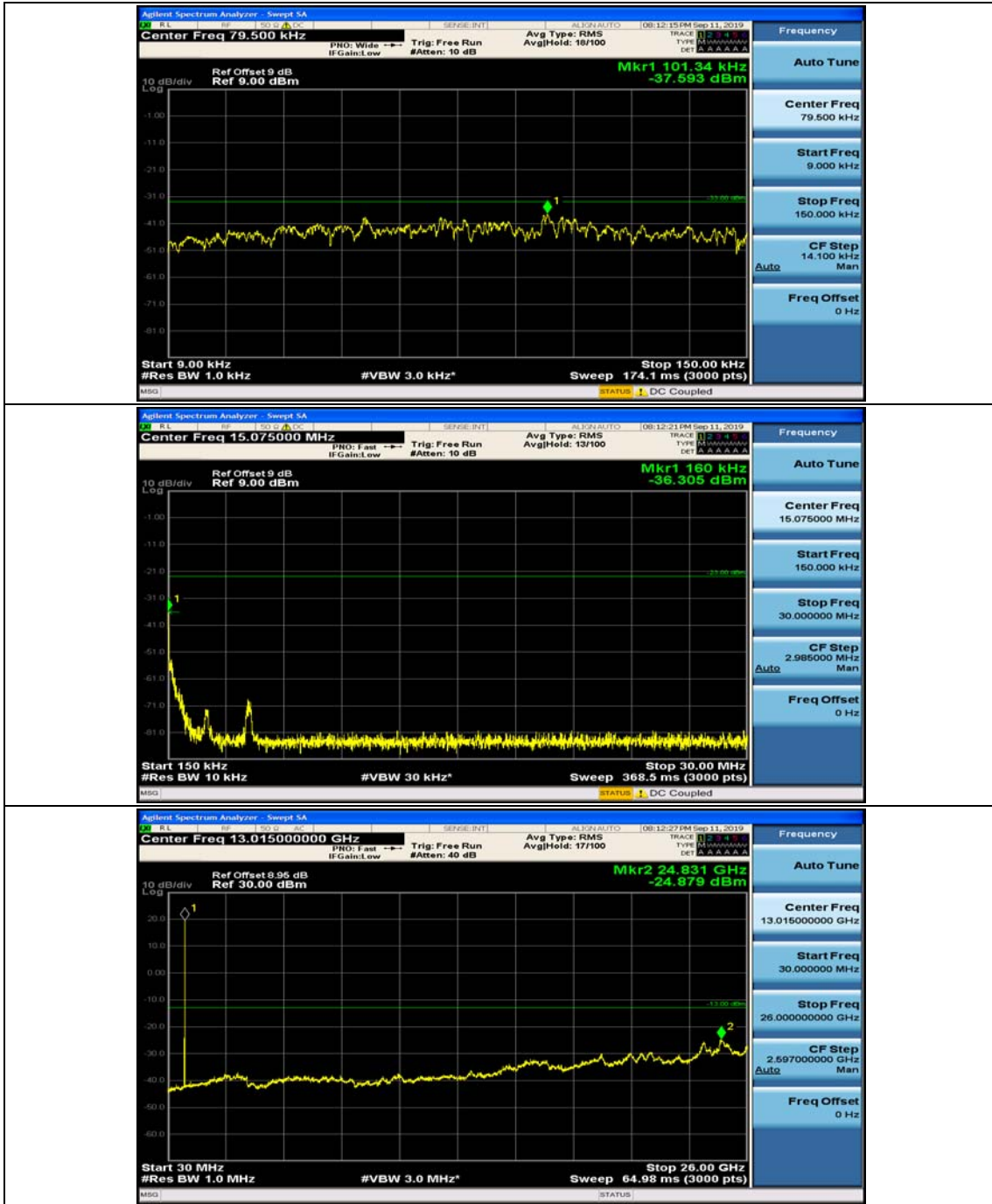
### Test Graphs

Channel Bandwidth: 5 MHz

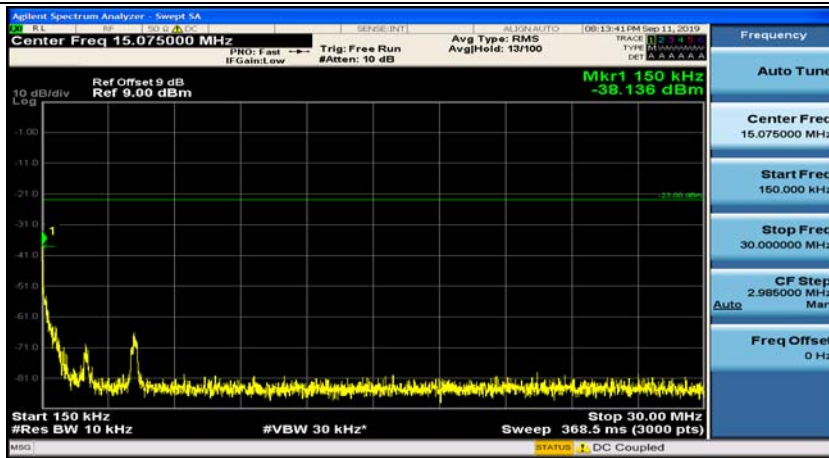
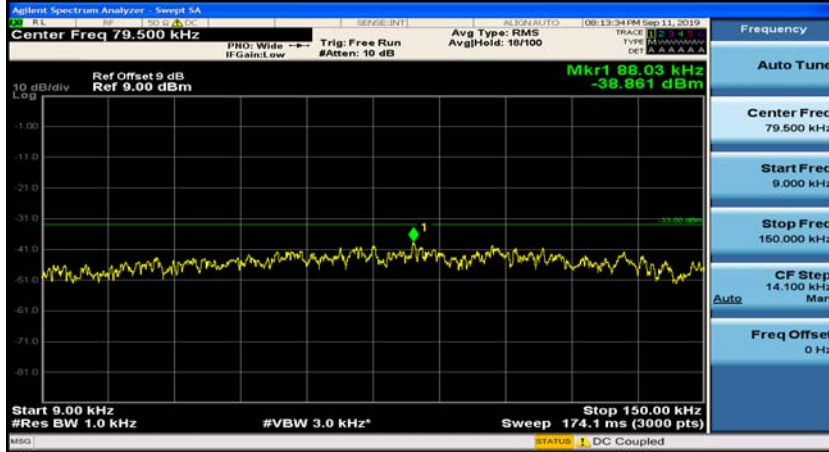








(Channel Bandwidth: 5 MHz)\_MCH\_QPSK\_1RB#0



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