

## 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	23.04	PASS
		1	12	22.91	PASS
		1	24	22.59	PASS
		12	0	21.60	PASS
		12	6	21.71	PASS
		12	13	21.74	PASS
		25	0	21.70	PASS
	MCH	1	0	22.65	PASS
		1	12	22.92	PASS
		1	24	22.54	PASS
		12	0	21.71	PASS
		12	6	21.71	PASS
		12	13	21.79	PASS
		25	0	22.04	PASS
	HCH	1	0	23.07	PASS
		1	12	23.47	PASS
		1	24	22.82	PASS
		12	0	22.10	PASS
		12	6	22.20	PASS
		12	13	21.96	PASS
		25	0	22.11	PASS
16QAM	LCH	1	0	21.75	PASS
		1	12	22.17	PASS
		1	24	21.88	PASS
		12	0	20.65	PASS
		12	6	20.78	PASS
		12	13	20.85	PASS
		25	0	20.71	PASS
	MCH	1	0	21.89	PASS
		1	12	22.23	PASS
		1	24	21.89	PASS
		12	0	21.08	PASS

		12	6	21.23	PASS
		12	13	21.21	PASS
		25	0	21.18	PASS
	HCH	1	0	22.04	PASS
		1	12	22.34	PASS
		1	24	21.95	PASS
		12	0	21.07	PASS
		12	6	21.15	PASS
		12	13	21.05	PASS
		25	0	21.14	PASS

### Channel Bandwidth: 10 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	MCH	1	0	23.53	PASS
		1	24	22.77	PASS
		1	49	22.55	PASS
		25	0	22.60	PASS
		25	12	22.69	PASS
		25	25	22.65	PASS
		50	0	22.59	PASS
16QAM	MCH	1	0	21.79	PASS
		1	24	22.10	PASS
		1	49	21.87	PASS
		25	0	20.67	PASS
		25	12	20.71	PASS
		25	25	20.88	PASS
		50	0	20.60	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	3.39	<13	PASS
		1	12	4.34	<13	PASS
		1	24	4.97	<13	PASS
		12	0	4.91	<13	PASS
		12	6	5.32	<13	PASS
		12	13	5.39	<13	PASS
		25	0	5.3	<13	PASS
	MCH	1	0	4.72	<13	PASS
		1	12	4.64	<13	PASS
		1	24	4.22	<13	PASS
		12	0	5.51	<13	PASS
		12	6	5.45	<13	PASS
		12	13	5.16	<13	PASS
		25	0	5.21	<13	PASS
	HCH	1	0	4.57	<13	PASS
		1	12	3.8	<13	PASS
		1	24	4.77	<13	PASS
		12	0	5.01	<13	PASS
		12	6	4.82	<13	PASS
		12	13	4.97	<13	PASS
		25	0	5.11	<13	PASS
16QAM	LCH	1	0	4.38	<13	PASS
		1	12	5.29	<13	PASS
		1	24	5.86	<13	PASS
		12	0	5.79	<13	PASS
		12	6	6.11	<13	PASS
		12	13	6.22	<13	PASS
		25	0	6.17	<13	PASS
	MCH	1	0	5.66	<13	PASS
		1	12	5.58	<13	PASS
		1	24	5.05	<13	PASS
		12	0	6.42	<13	PASS
		12	6	6.22	<13	PASS

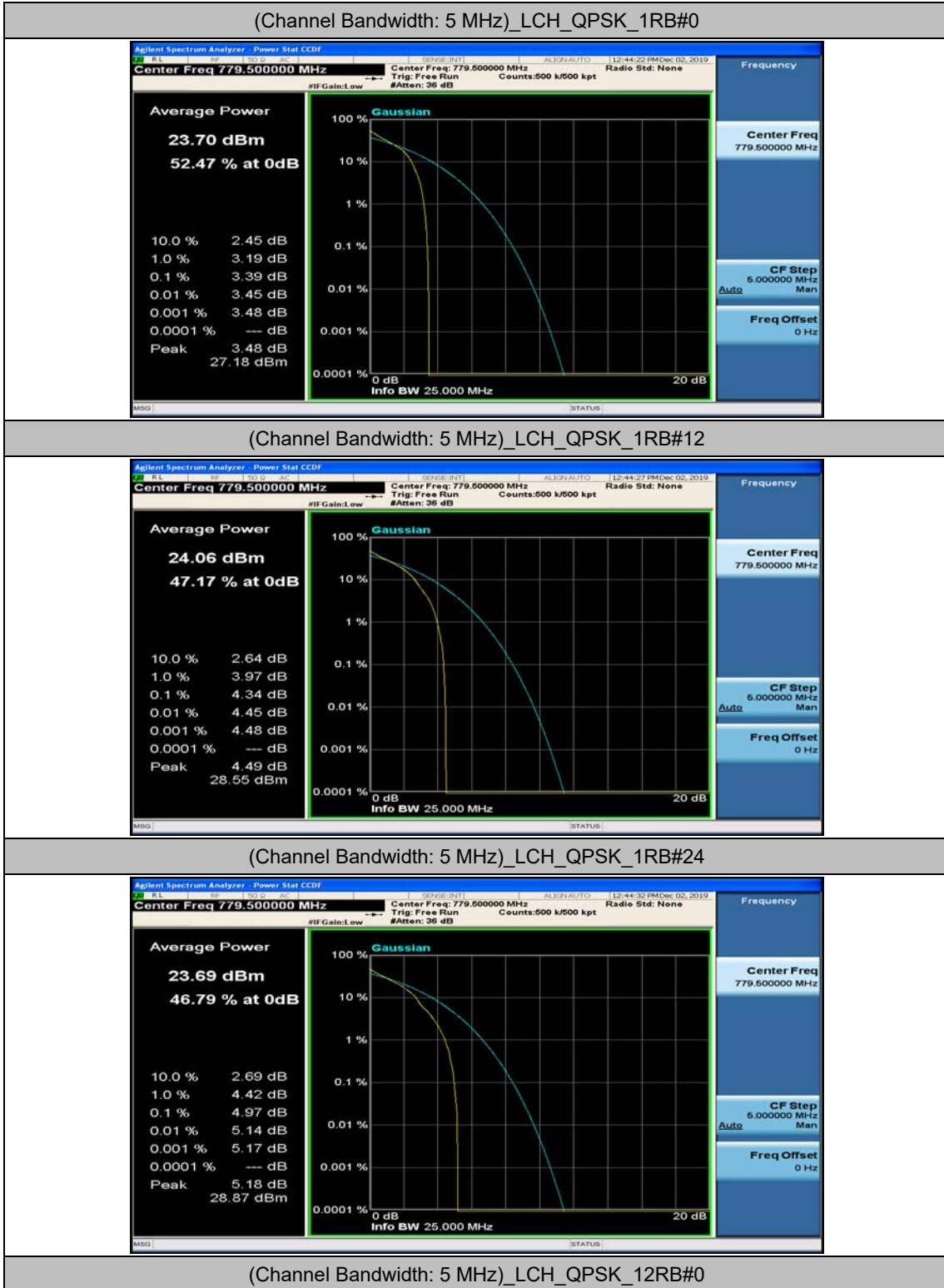
		12	13	5.82	<13	PASS
		25	0	6.02	<13	PASS
	HCH	1	0	5.52	<13	PASS
		1	12	4.8	<13	PASS
		1	24	5.41	<13	PASS
		12	0	5.92	<13	PASS
		12	6	5.67	<13	PASS
		12	13	5.79	<13	PASS
		25	0	5.79	<13	PASS

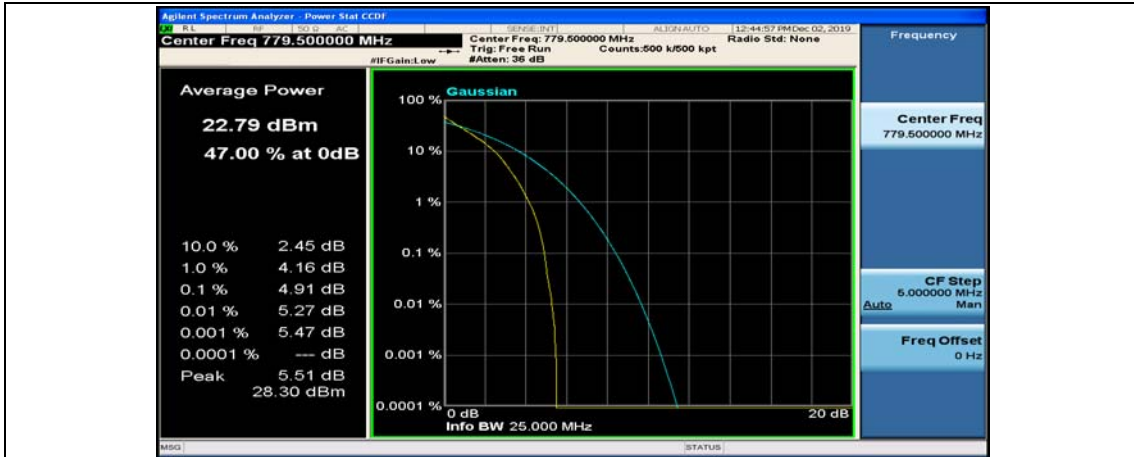
### Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	MCH	1	0	3.41	<13	PASS
		1	24	4.72	<13	PASS
		1	49	4.35	<13	PASS
		25	0	5.41	<13	PASS
		25	12	5.36	<13	PASS
		25	25	5.27	<13	PASS
		50	0	5.27	<13	PASS
16QAM	MCH	1	0	4.33	<13	PASS
		1	24	5.45	<13	PASS
		1	49	5.33	<13	PASS
		25	0	6.31	<13	PASS
		25	12	6.19	<13	PASS
		25	25	5.94	<13	PASS
		50	0	6.07	<13	PASS

## Test Graphs

### Channel Bandwidth: 5 MHz





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



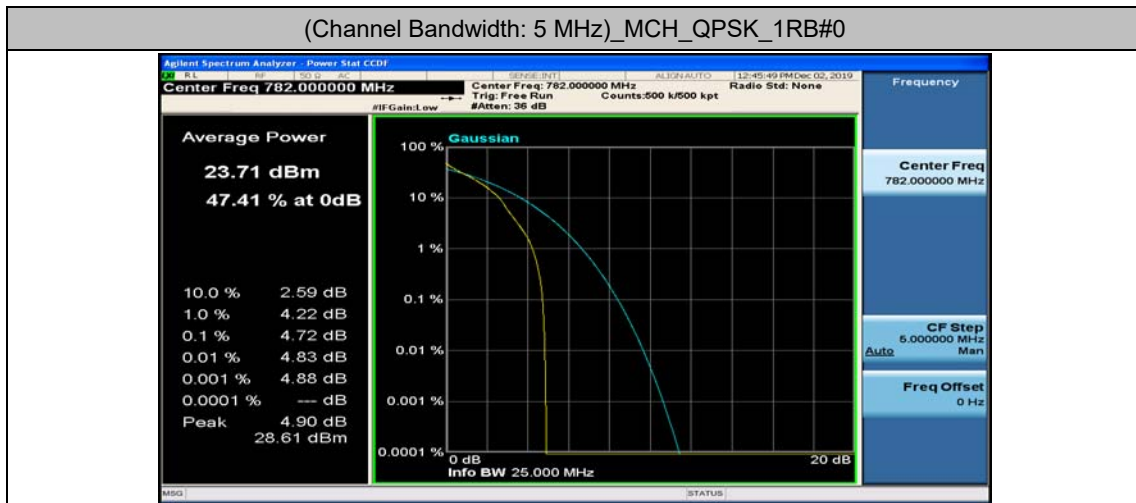
(Channel Bandwidth: 5 MHz)\_LCH\_QPSK\_12RB#13



(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

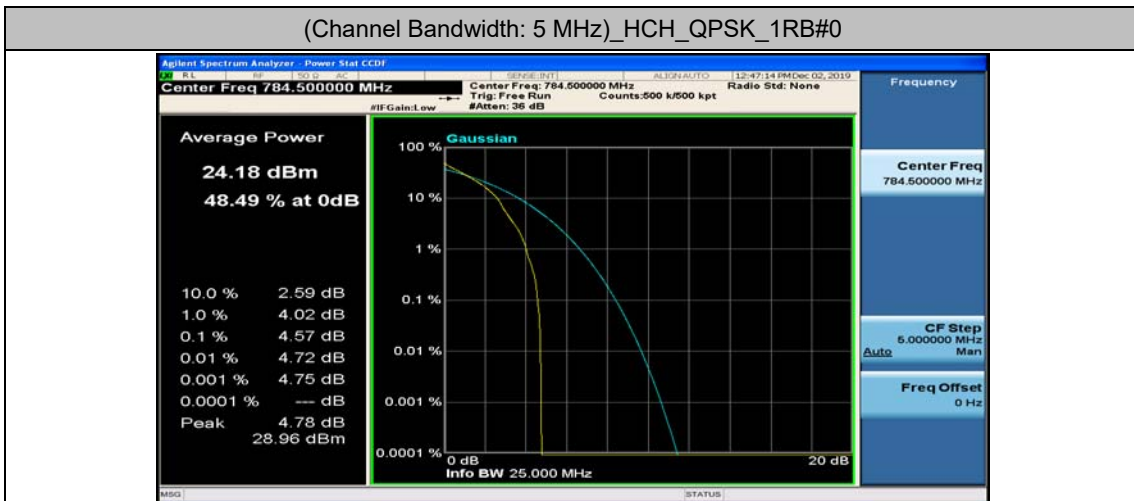




(Channel Bandwidth: 5 MHz)\_MCH\_QPSK\_25RB#0



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



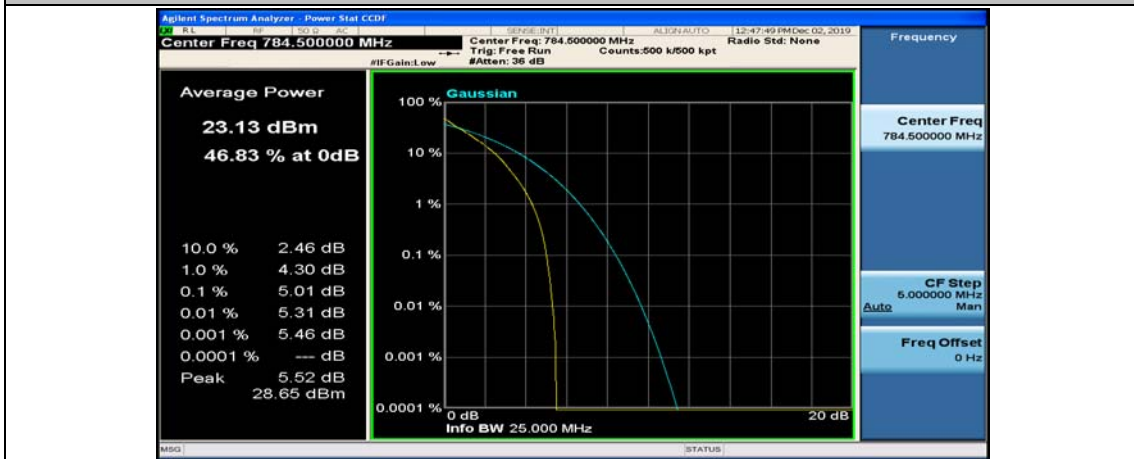
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(Channel Bandwidth: 5 MHz)\_HCH\_QPSK\_1RB#24



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



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



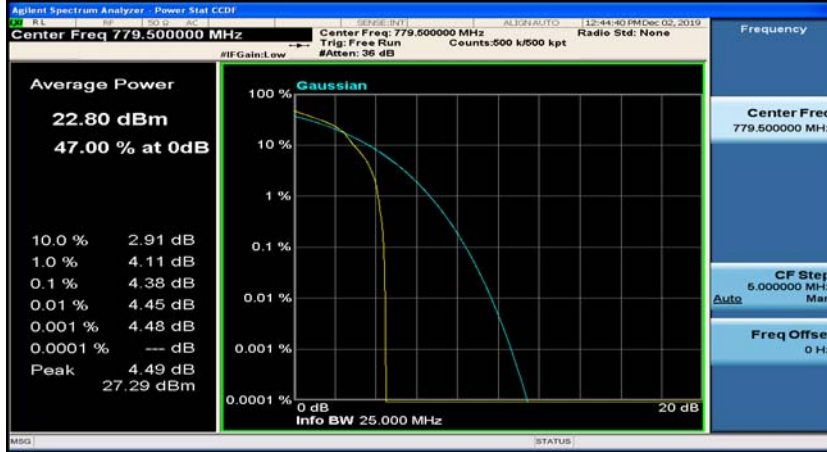
(Channel Bandwidth: 5 MHz)\_HCH\_QPSK\_12RB#13



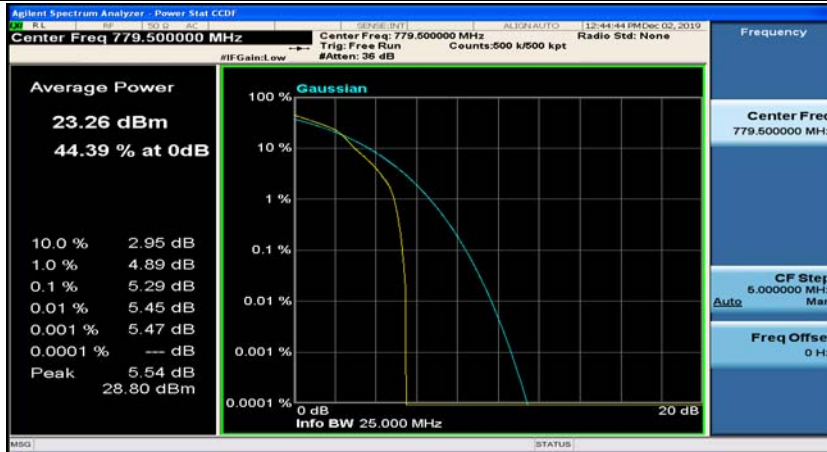
(Channel Bandwidth: 5 MHz)\_HCH\_QPSK\_25RB#0



(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



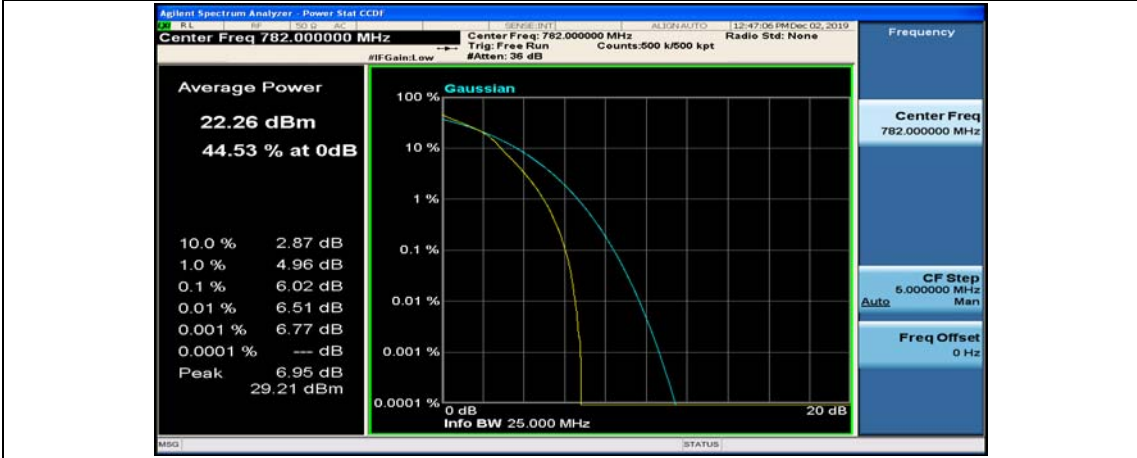
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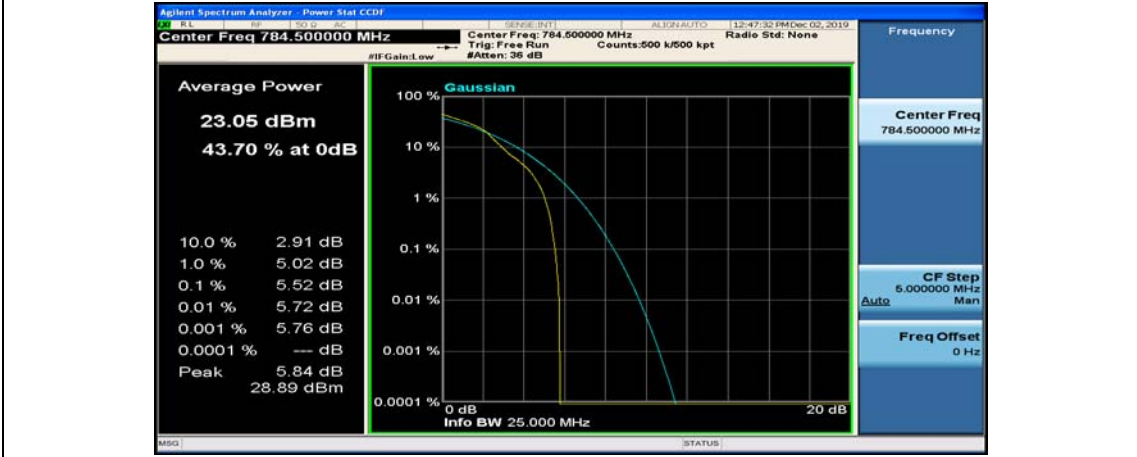
(Channel Bandwidth: 5 MHz)\_MCH\_16QAM\_12RB#13



(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

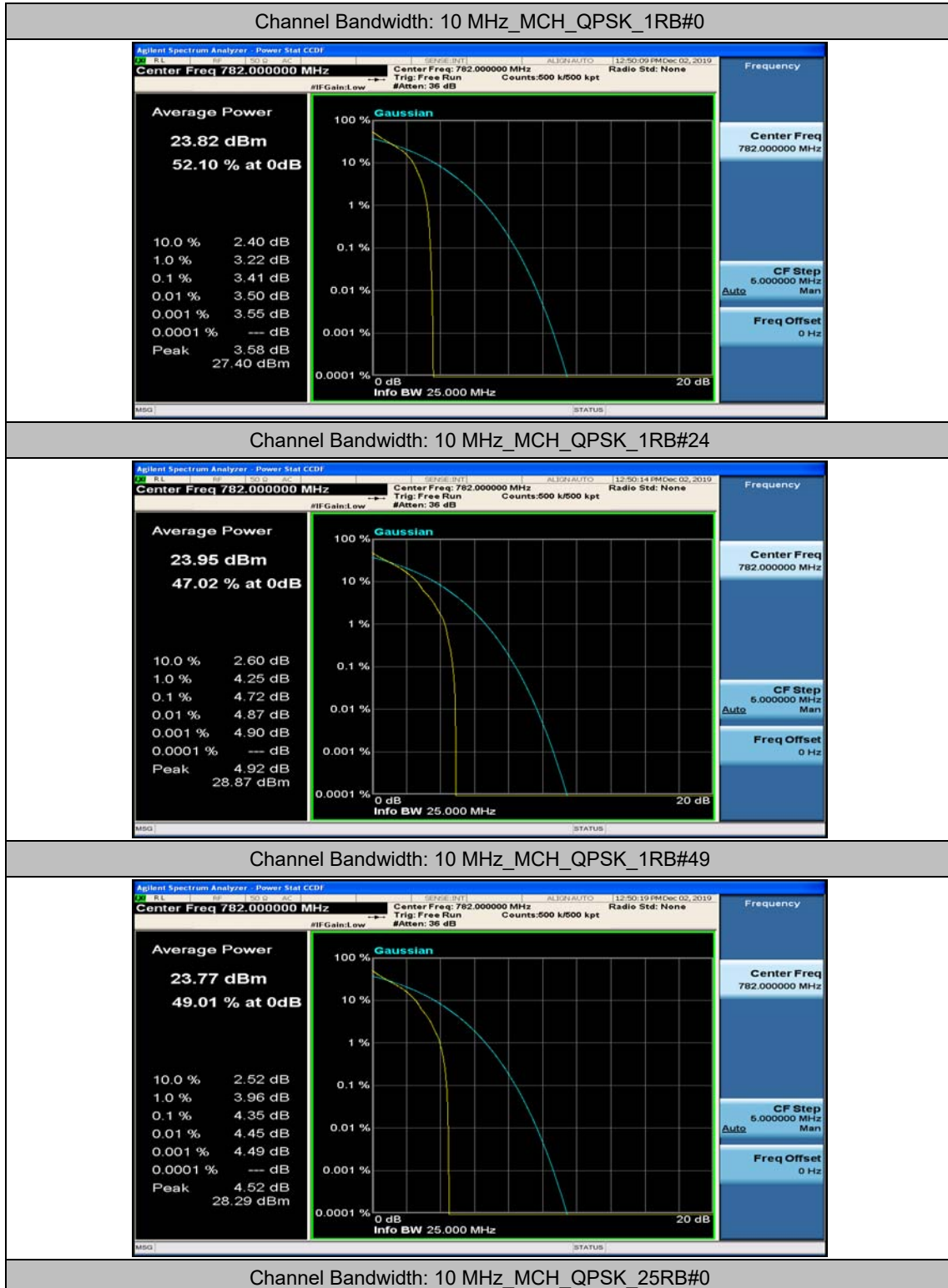


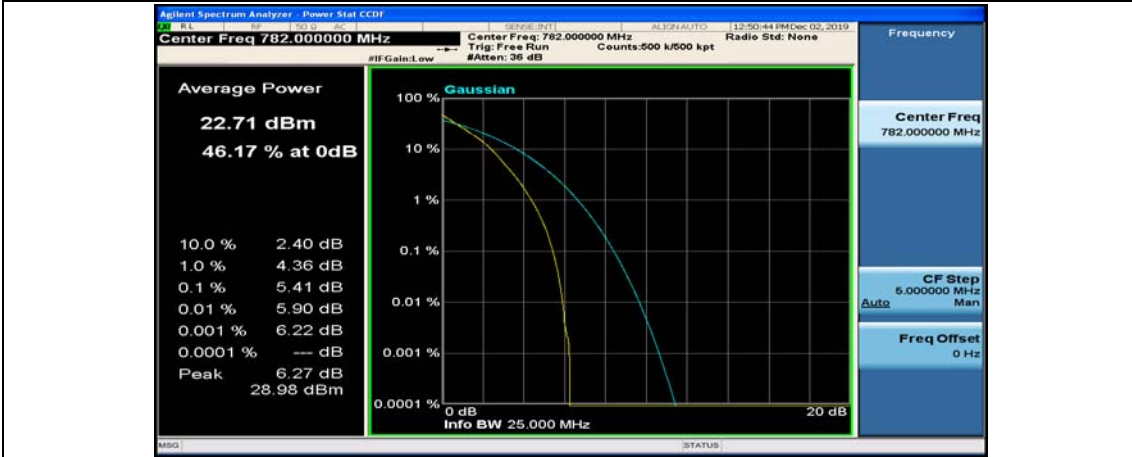
(Channel Bandwidth: 5 MHz)\_HCH\_16QAM\_12RB#13



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

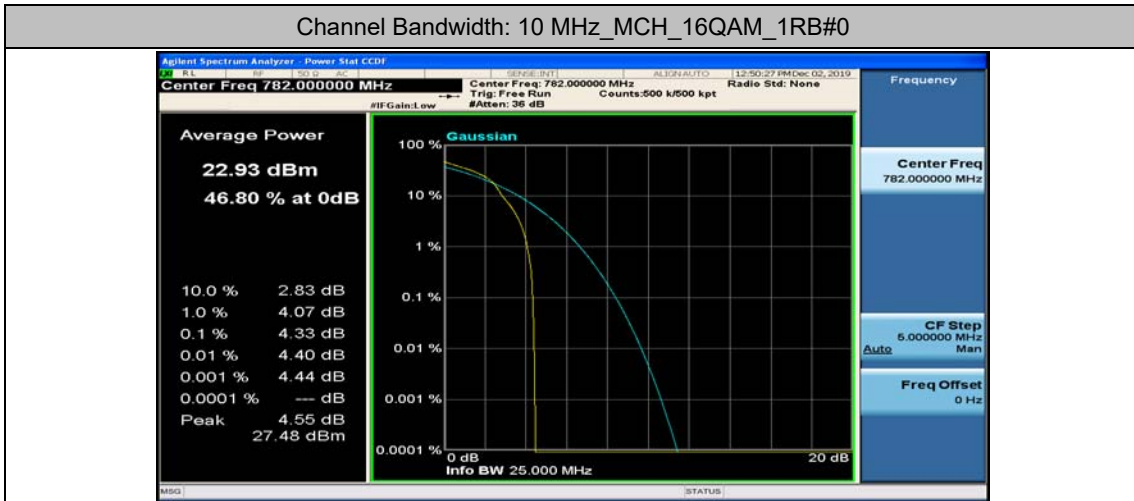


**Channel Bandwidth: 10 MHz**


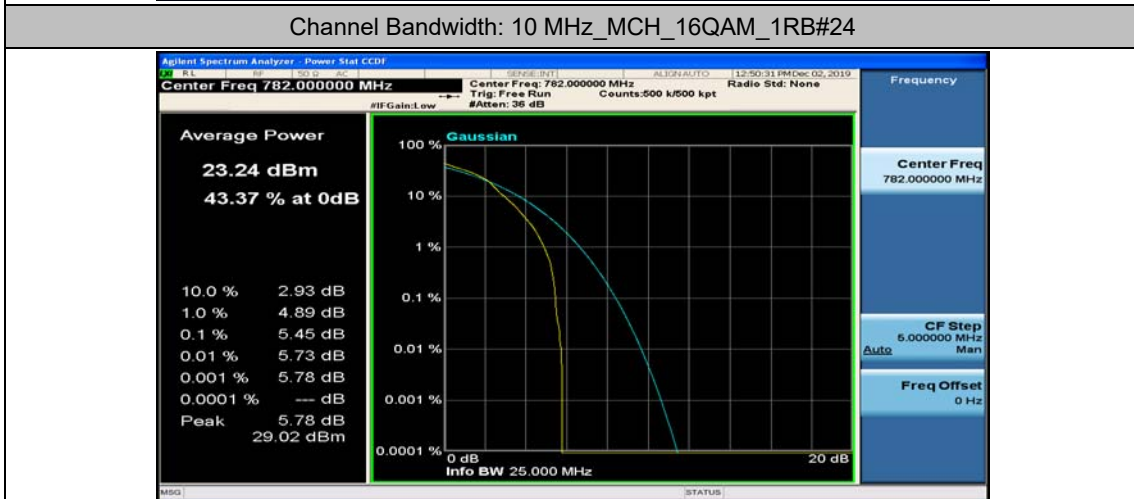




Channel Bandwidth: 10 MHz\_MCH\_16QAM\_1RB#0



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



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



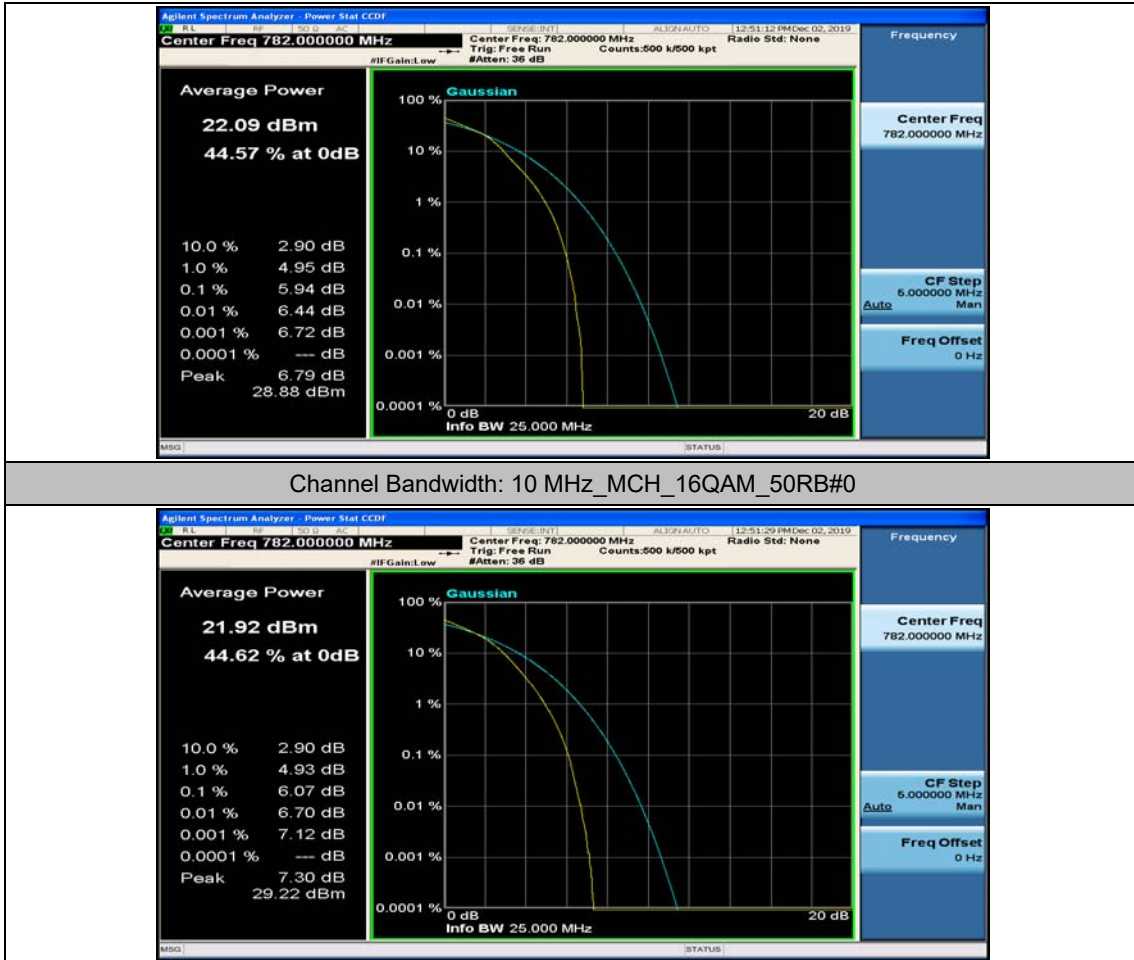
Channel Bandwidth: 10 MHz\_MCH\_16QAM\_25RB#0



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

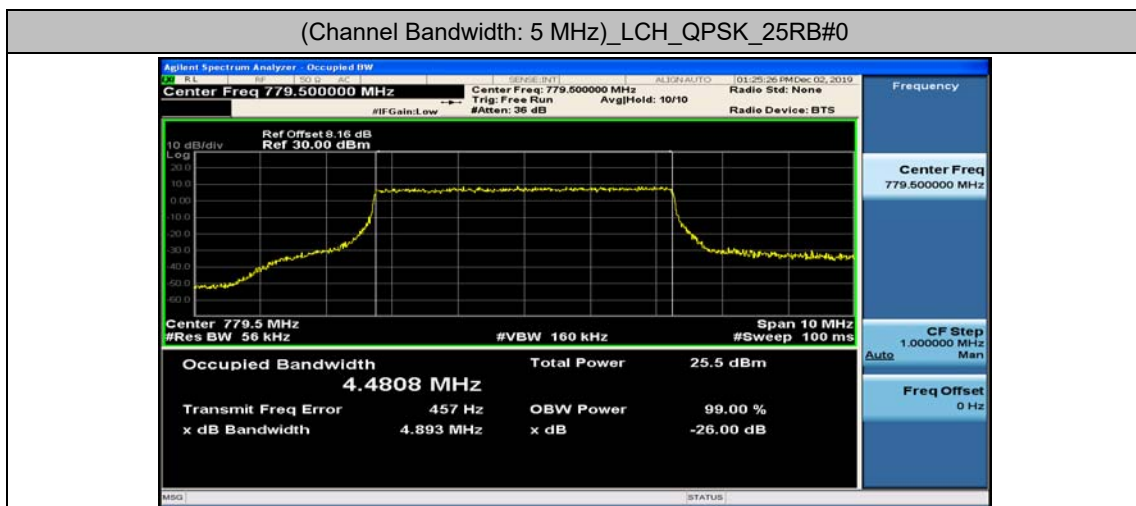
Channel Bandwidth: 5 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	25	0	4.4808	4.893	PASS
	MCH	25	0	4.4671	4.875	PASS
	HCH	25	0	4.4692	4.850	PASS
16QAM	LCH	25	0	4.4822	4.848	PASS
	MCH	25	0	4.4708	4.811	PASS
	HCH	25	0	4.4752	4.855	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	9.496	PASS
16QAM	MCH	50	0	8.9242	9.458	PASS

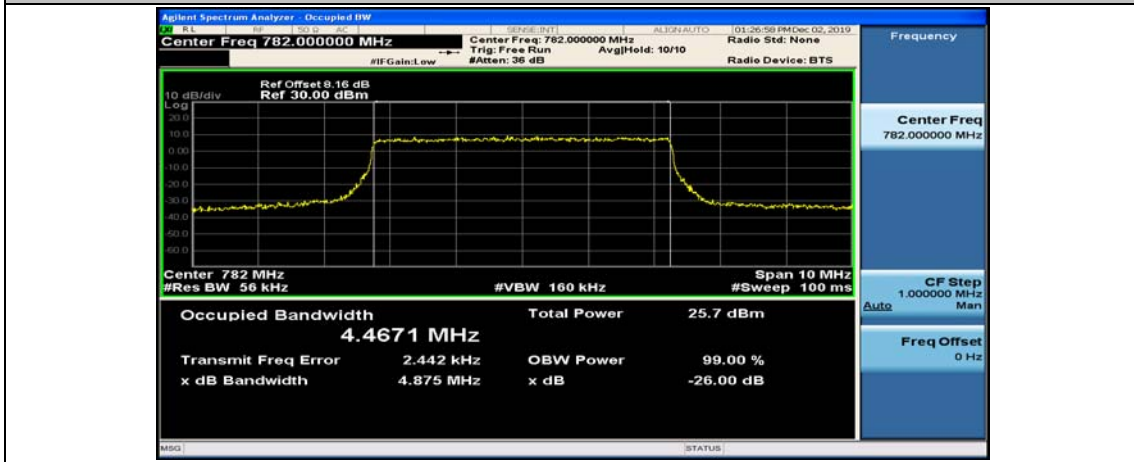
### Test Graphs

#### Channel Bandwidth: 5 MHz

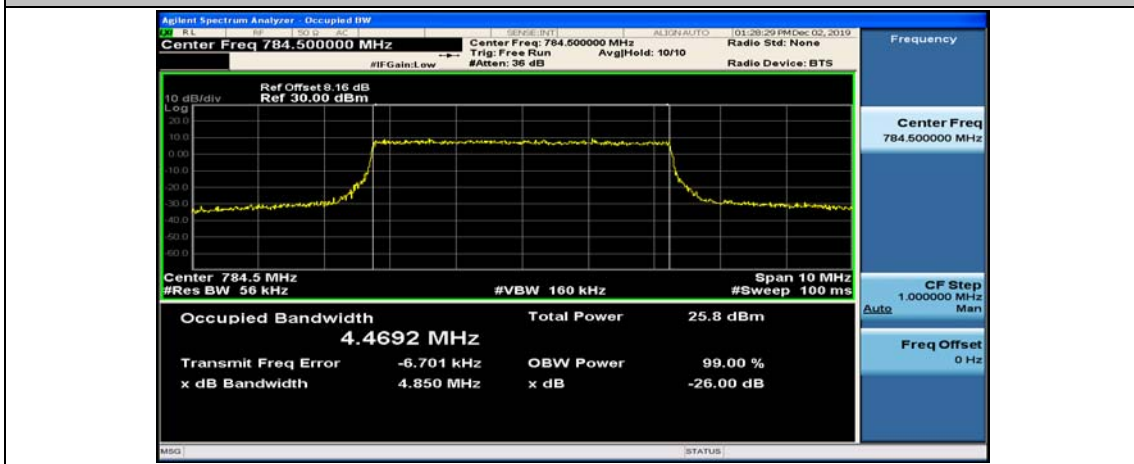




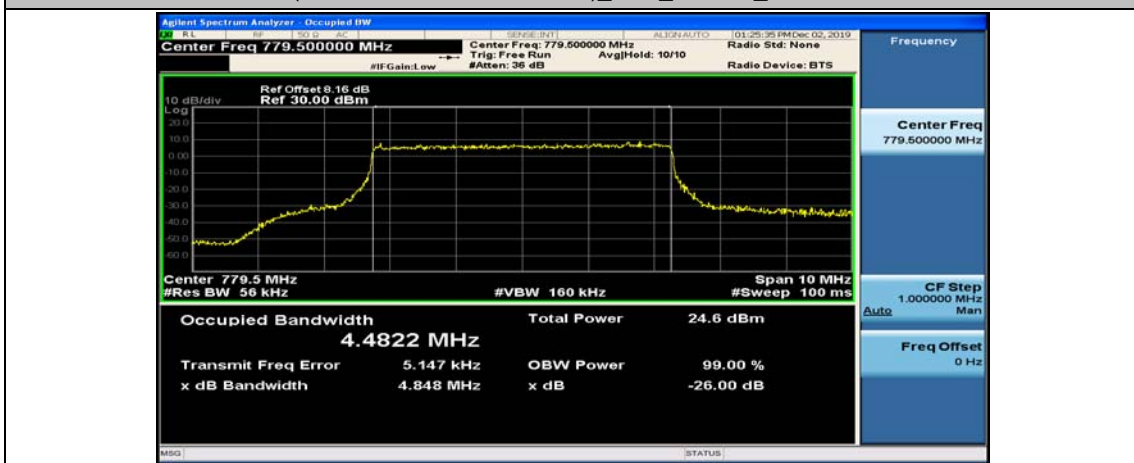
(Channel Bandwidth: 5 MHz)\_MCH\_QPSK\_25RB#0



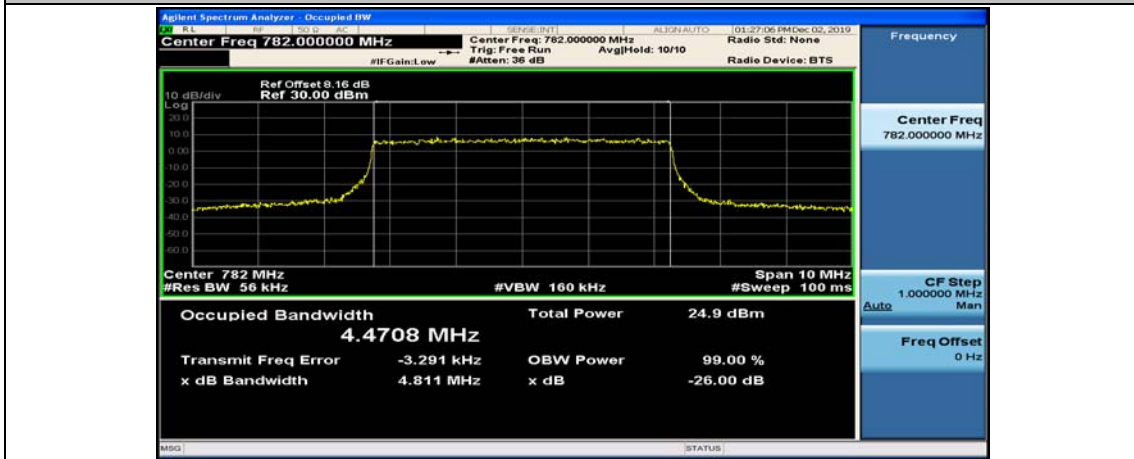
(Channel Bandwidth: 5 MHz)\_HCH\_QPSK\_25RB#0



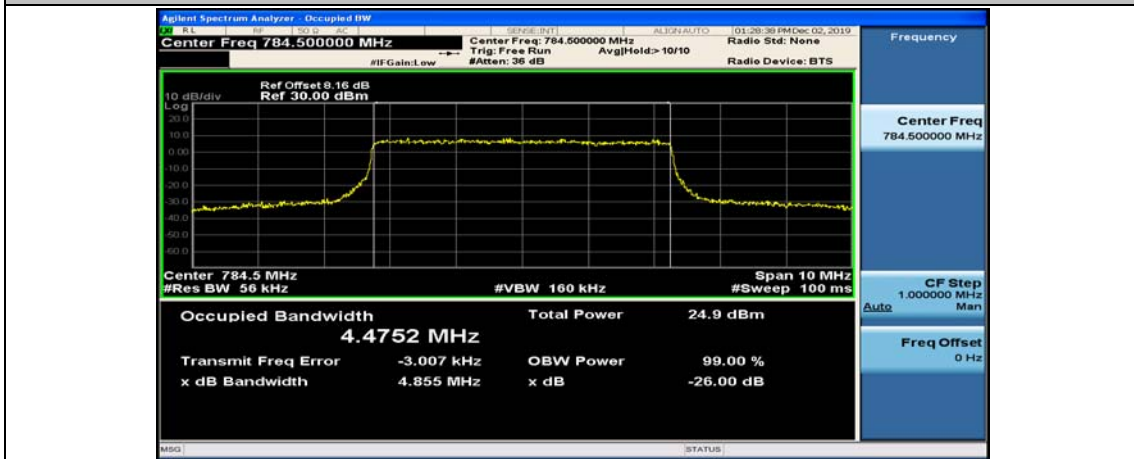
(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_25RB#0



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

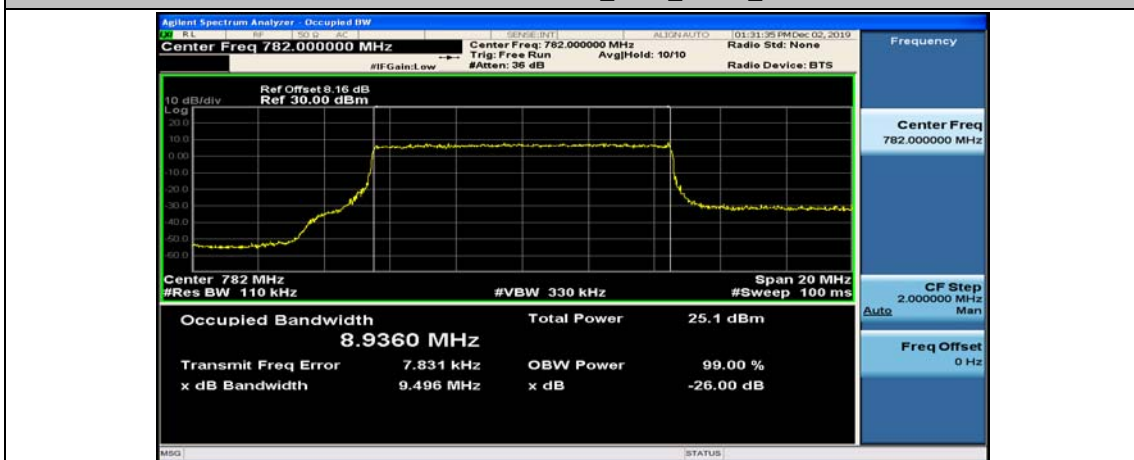


(Channel Bandwidth: 5 MHz)\_HCH\_16QAM\_25RB#0

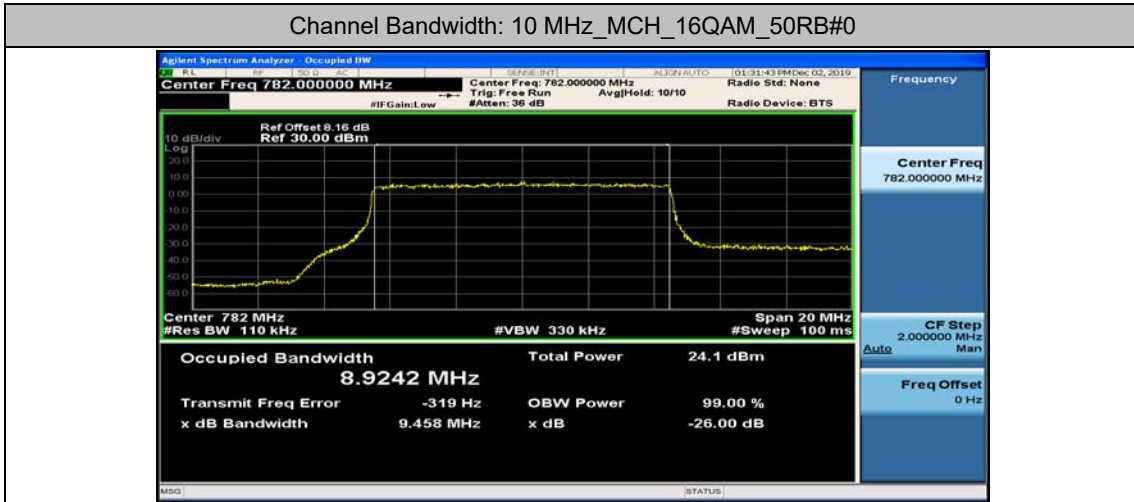


### Channel Bandwidth: 10 MHz

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



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

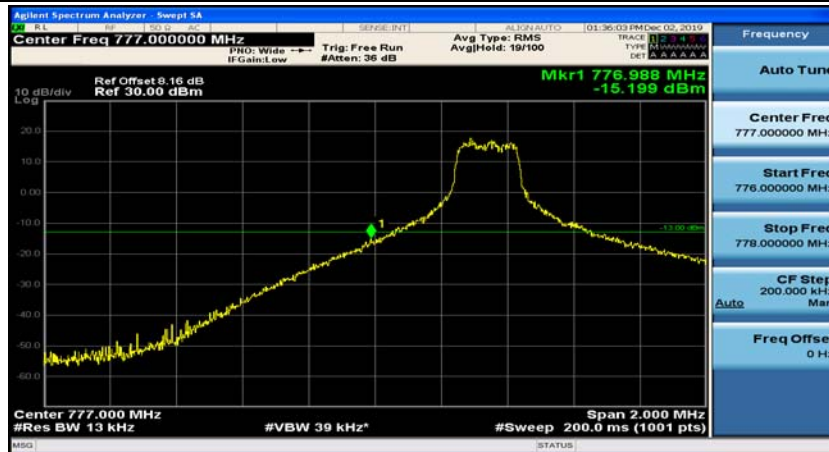


## Appendix D: Band Edge

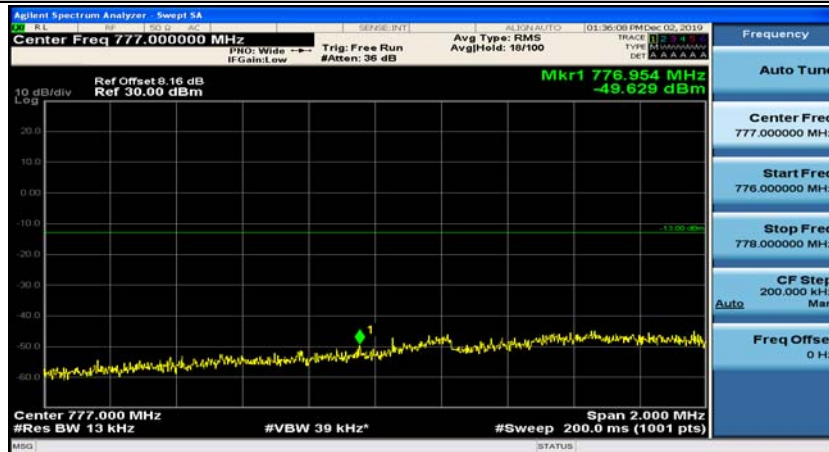
### Test Graphs

#### Channel Bandwidth: 5 MHz

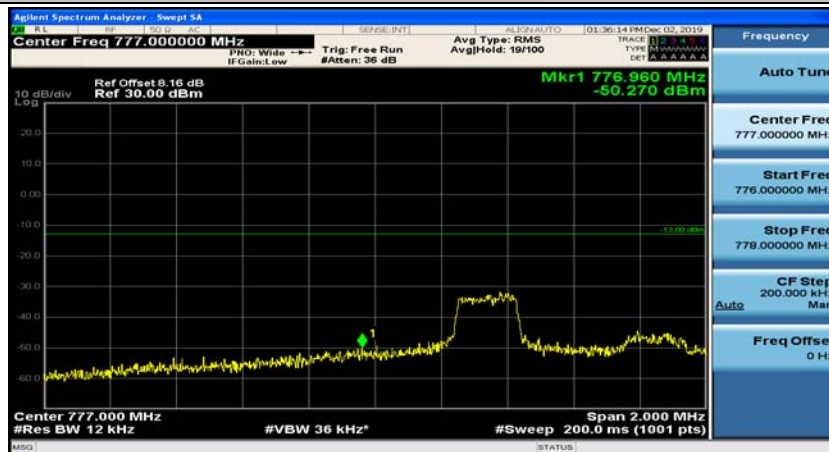
(Channel Bandwidth: 5 MHz)\_LCH\_QPSK\_1RB#0



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



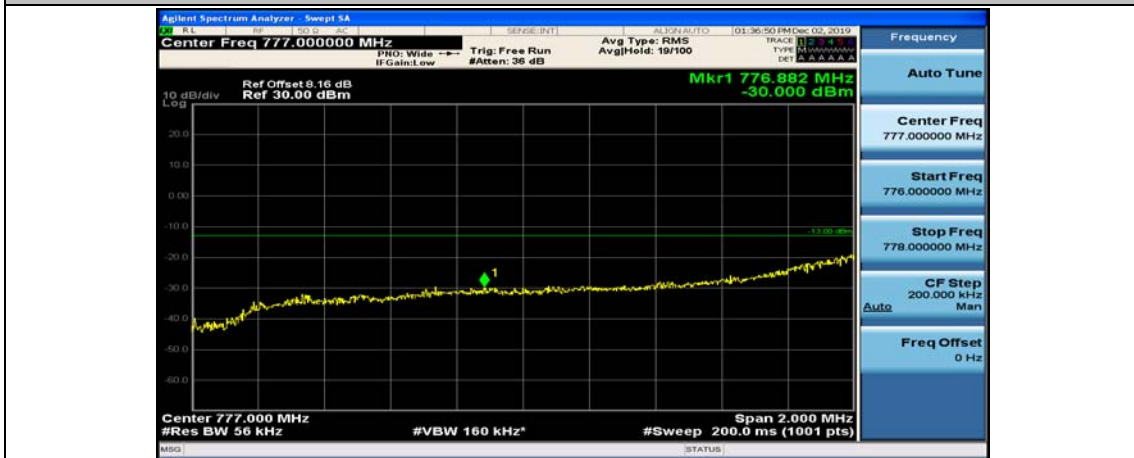
(Channel Bandwidth: 5 MHz)\_LCH\_QPSK\_1RB#24



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



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



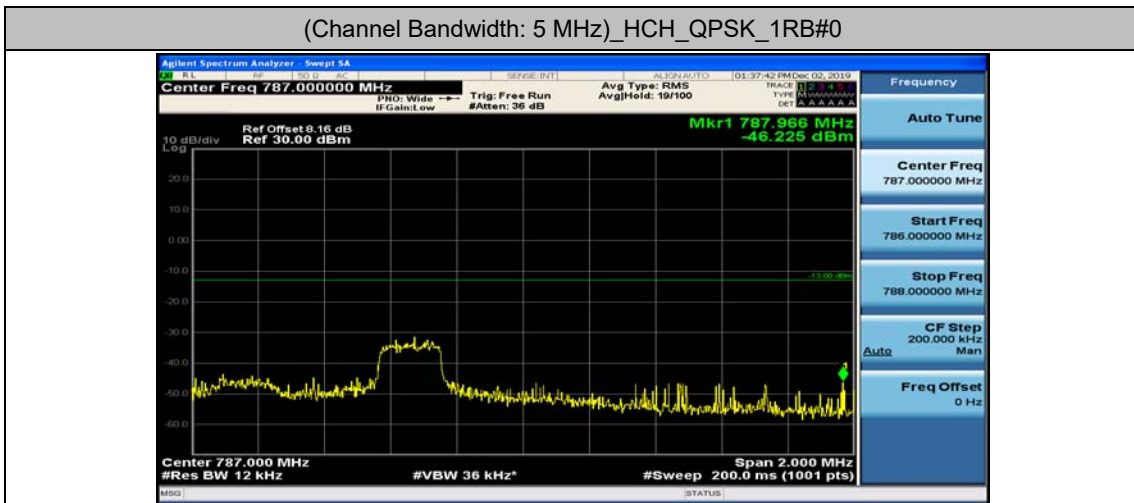
(Channel Bandwidth: 5 MHz)\_LCH\_QPSK\_12RB#13



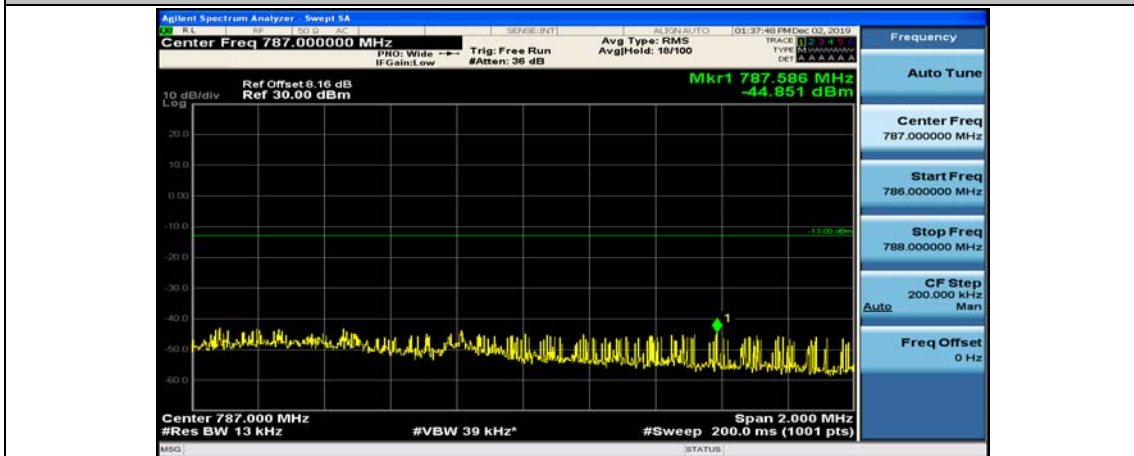
(Channel Bandwidth: 5 MHz)\_LCH\_QPSK\_25RB#0



(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

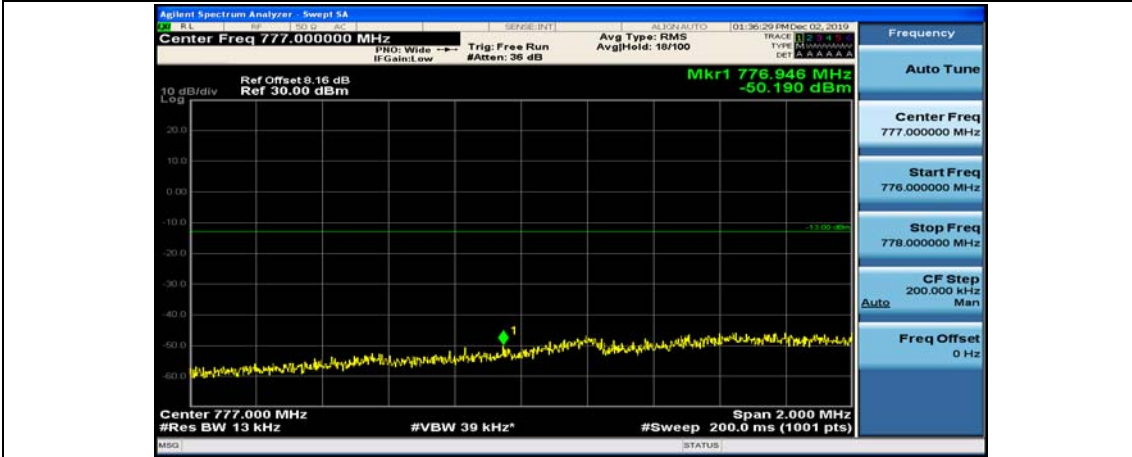


(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_1RB#0



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





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



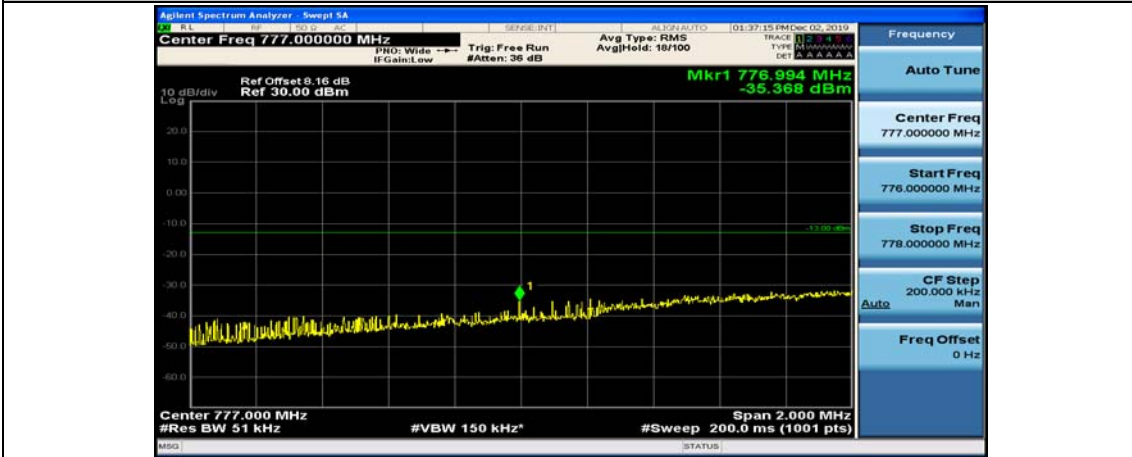
(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_12RB#0



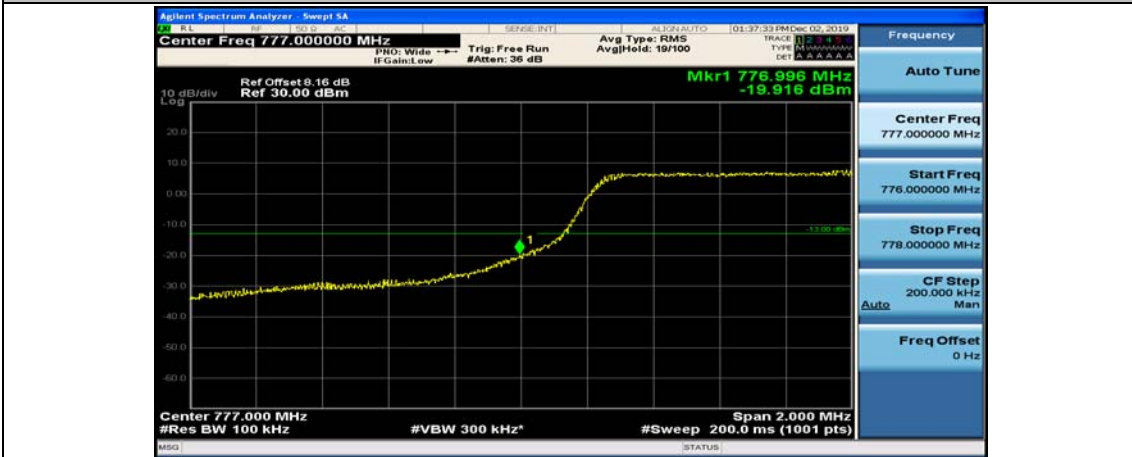
(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_12RB#6



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



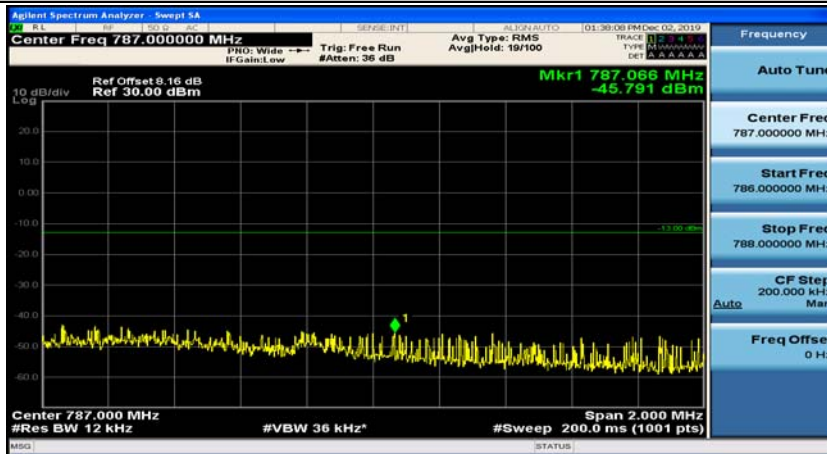
(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_25RB#0



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



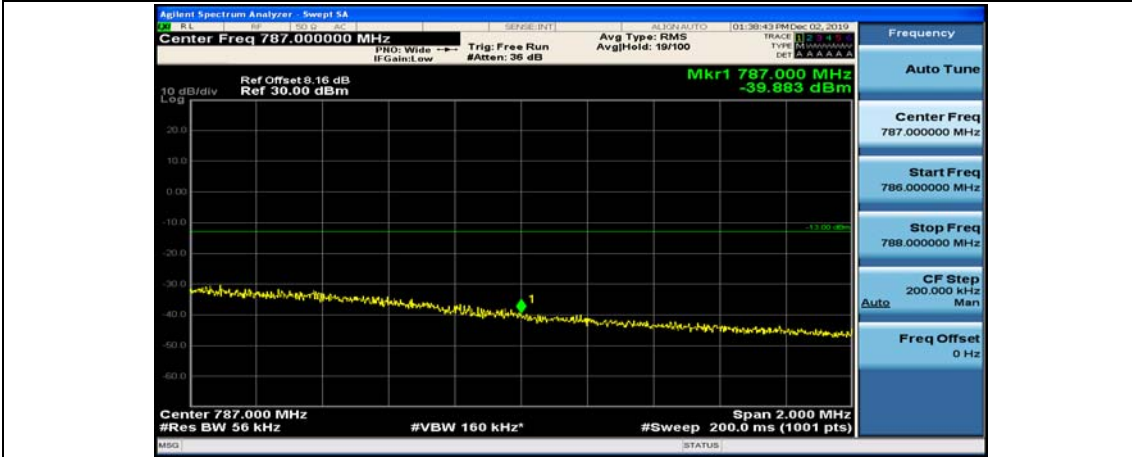
(Channel Bandwidth: 5 MHz)\_HCH\_16QAM\_1RB#12



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



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



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



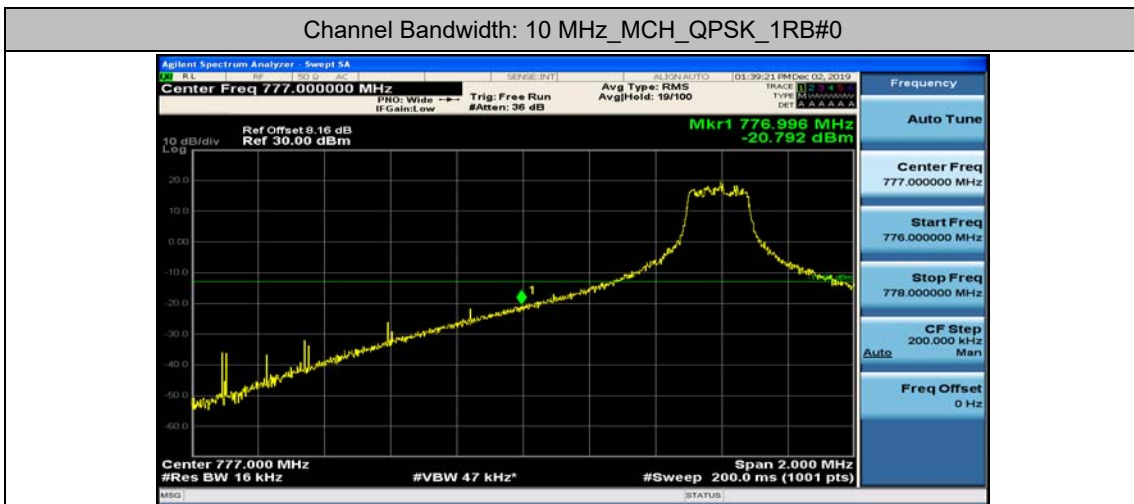
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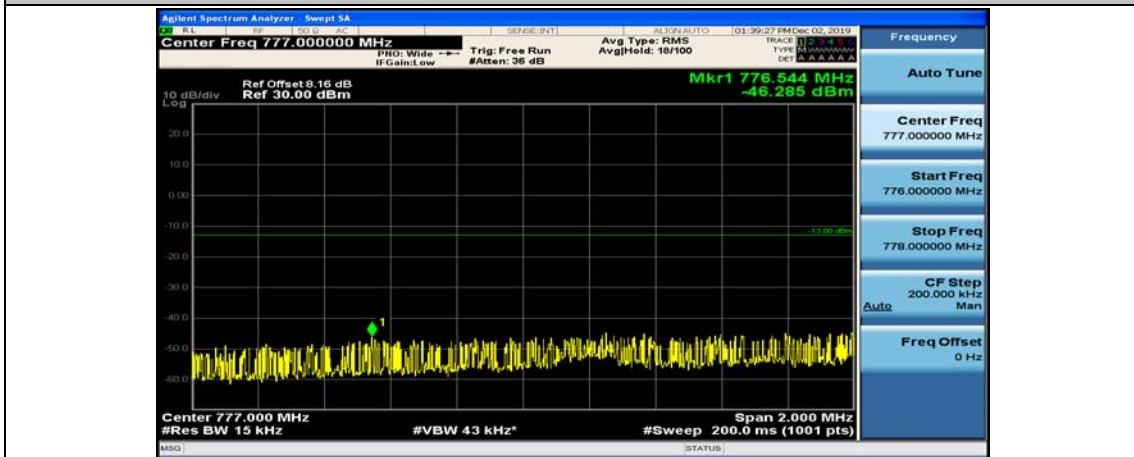
(Channel Bandwidth: 5 MHz)\_HCH\_16QAM\_25RB#0



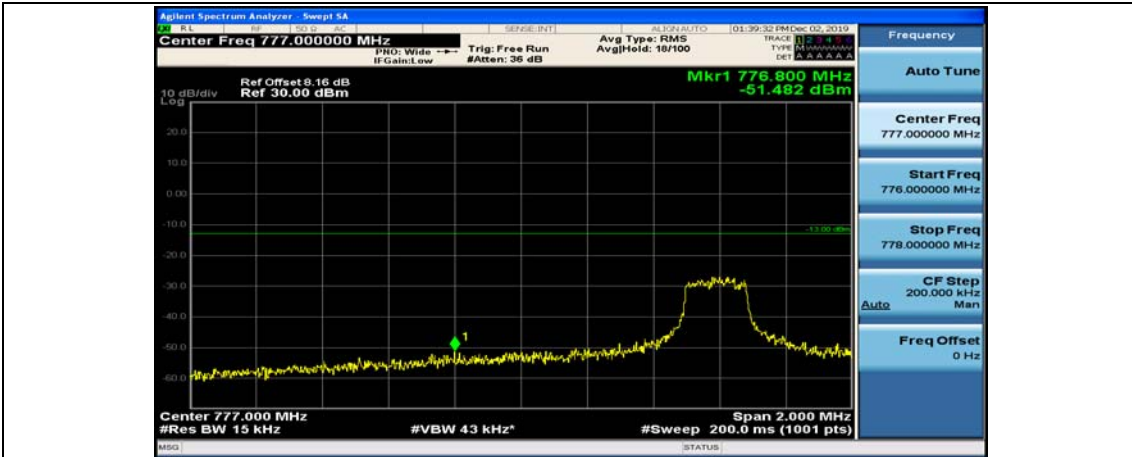
Channel Bandwidth: 10 MHz



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



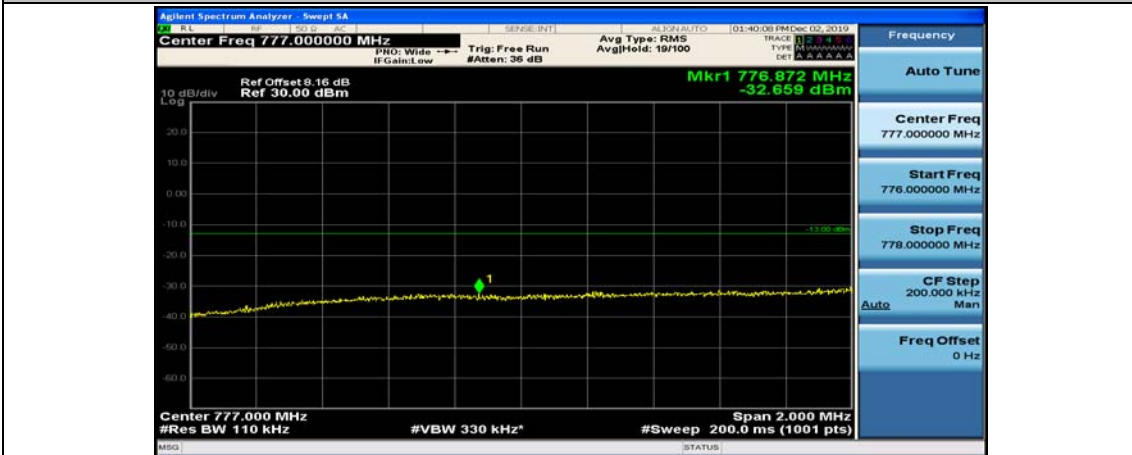
Channel Bandwidth: 10 MHz\_MCH\_QPSK\_1RB#49



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



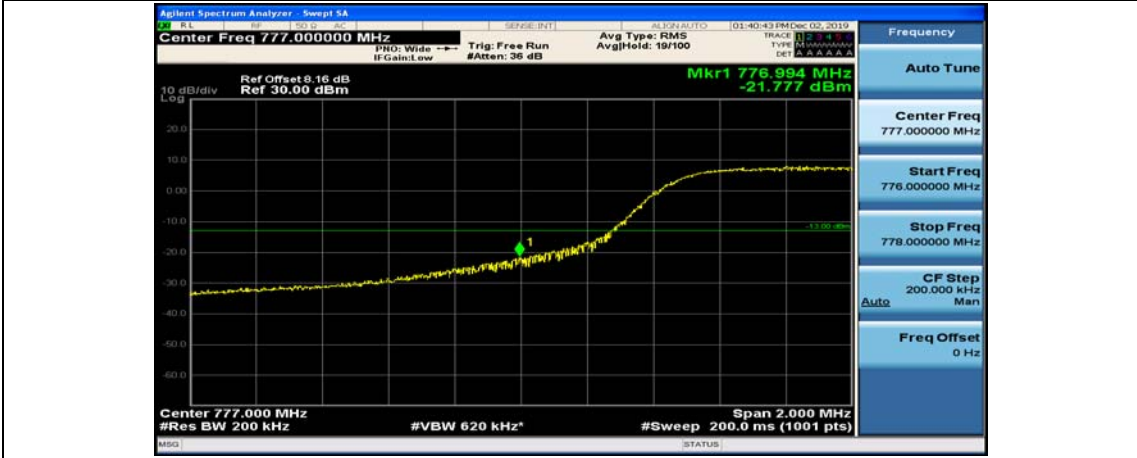
Channel Bandwidth: 10 MHz\_MCH\_QPSK\_25RB#12



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



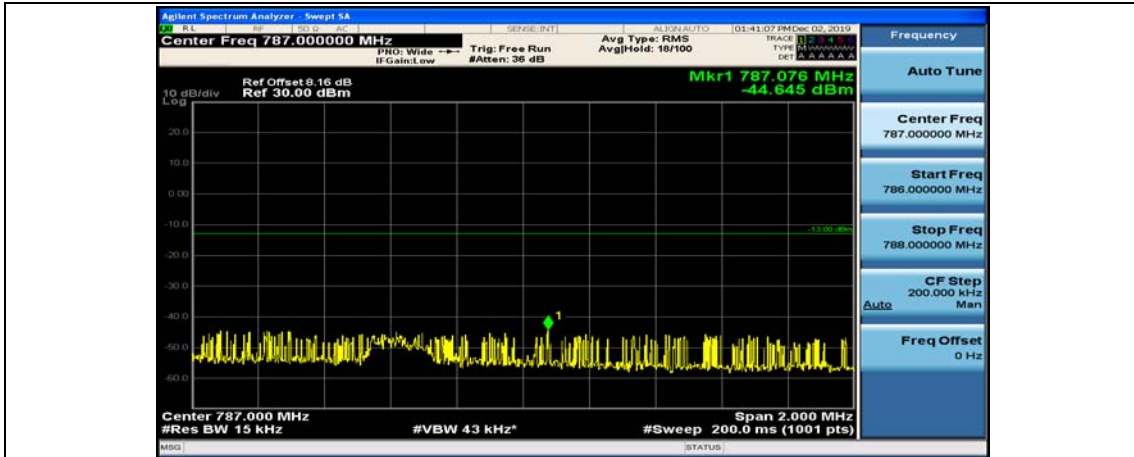
Channel Bandwidth: 10 MHz\_MCH\_QPSK\_50RB#0



Channel Bandwidth: 10 MHz\_MCH\_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



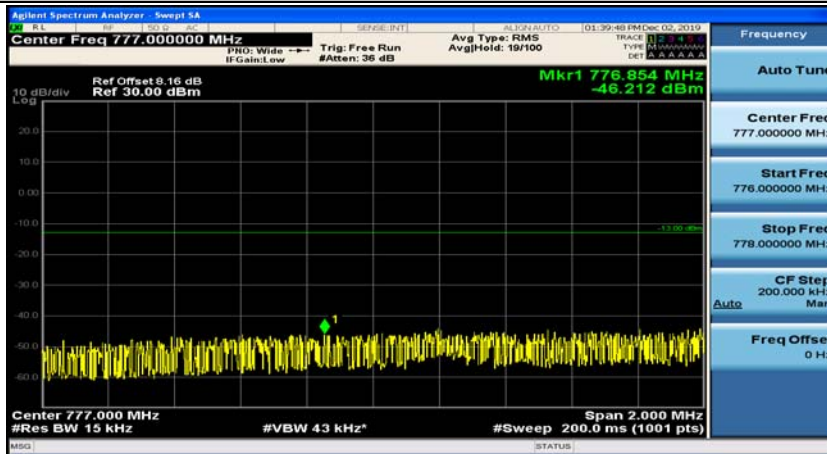
Channel Bandwidth: 10 MHz\_MCH\_QPSK\_50RB#0



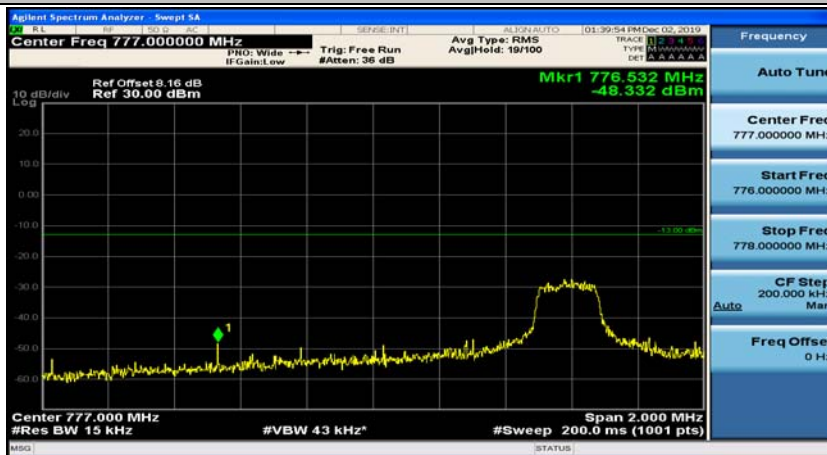
Channel Bandwidth: 10 MHz\_MCH\_16QAM\_1RB#0



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



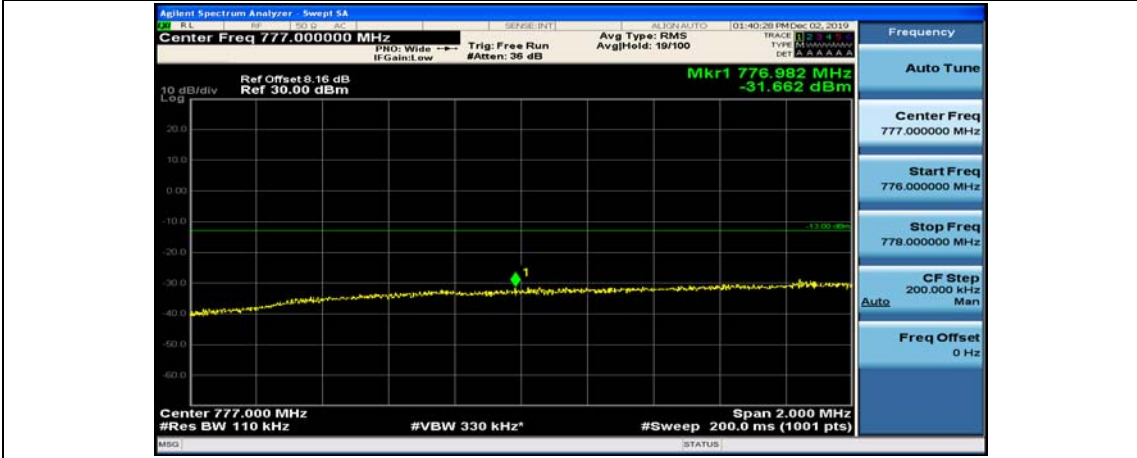
Channel Bandwidth: 10 MHz\_MCH\_16QAM\_1RB#49



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



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



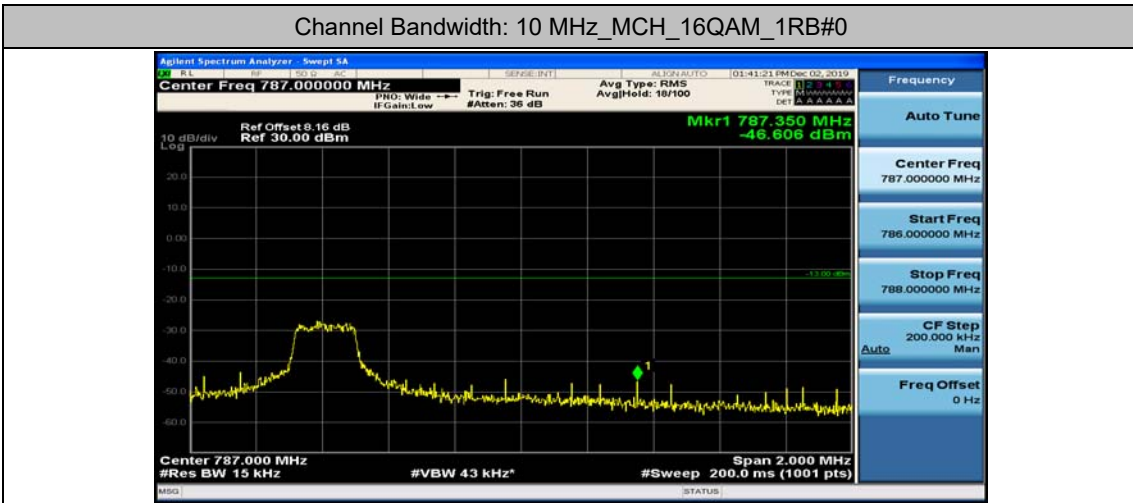
Channel Bandwidth: 10 MHz\_MCH\_16QAM\_25RB#25



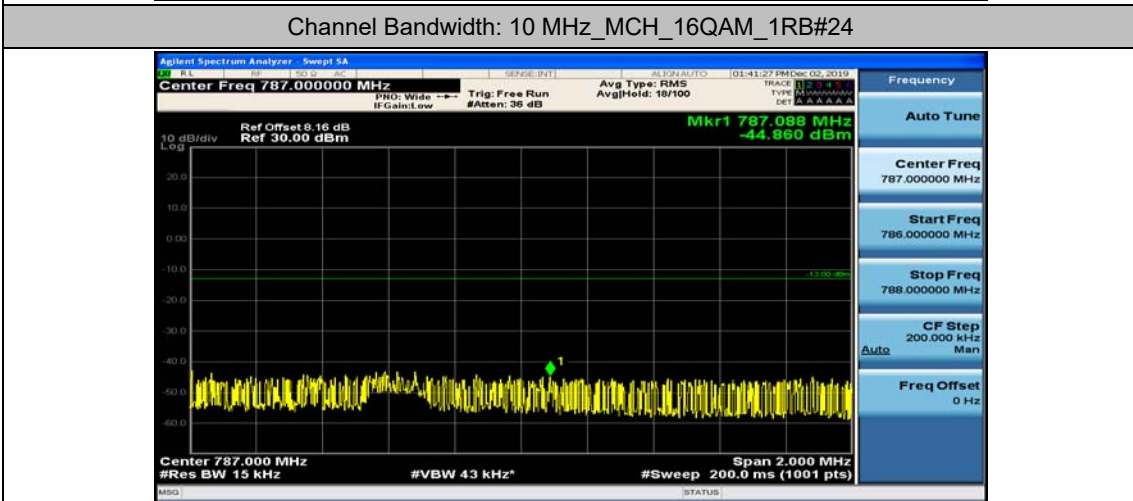
Channel Bandwidth: 10 MHz\_MCH\_16QAM\_50RB#0



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



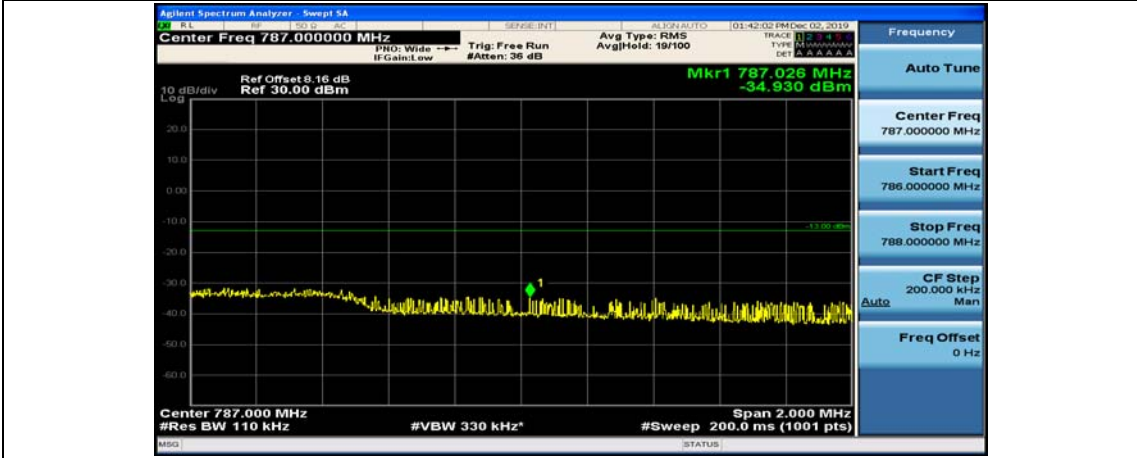
Channel Bandwidth: 10 MHz\_MCH\_16QAM\_1RB#24



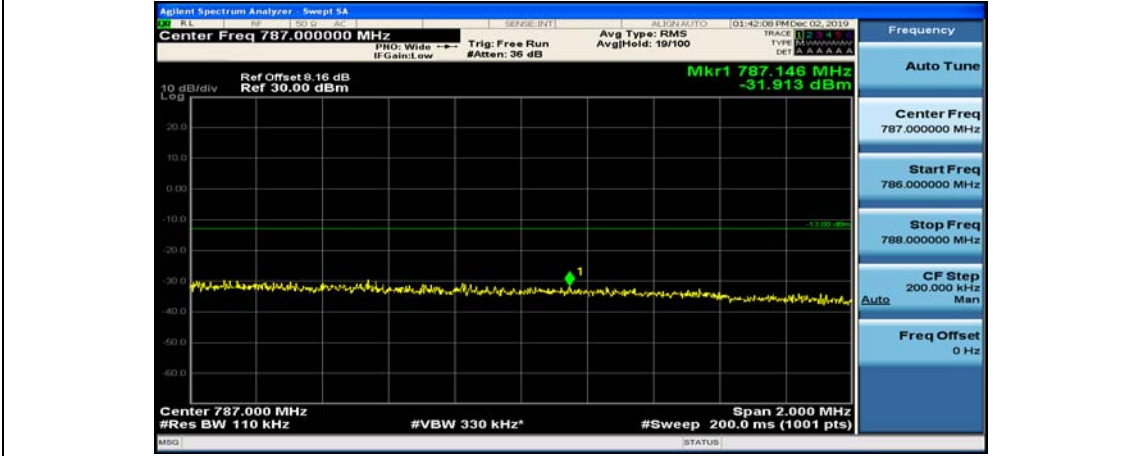
Channel Bandwidth: 10 MHz\_MCH\_16QAM\_1RB#49



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



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



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