

## Appendix E Test Data for E-UTRA Band 5

**Product Name: BluePad-55 v2**

**Trade Mark: N/A**

**Test Model: BluePad-55 v2**

### Environmental Conditions

Temperature:	24.3° C
Relative Humidity:	54.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Diamond Lu
Supervised by:	Li Huan

### E.1 Conducted Output Power

#### Conducted Output Power Test Result (Channel Bandwidth: 1.4 MHz)

Modulation	Channel	RB Configuration		Average Power [dBm] QPSK	Average Power [dBm] 16QAM	Verdict
		Size	Offset			
QPSK / 16QAM	LCH	1	0	23.20	21.68	PASS
		1	3	22.31	21.74	PASS
		1	5	22.81	22.08	PASS
		3	0	22.50	21.85	PASS
		3	2	22.38	21.54	PASS
		3	3	22.55	21.64	PASS
		6	0	22.50	21.54	PASS
	MCH	1	0	23.65	22.37	PASS
		1	3	23.70	22.87	PASS
		1	5	23.66	22.63	PASS
		3	0	23.72	22.93	PASS
		3	2	23.76	22.95	PASS
		3	3	23.71	22.92	PASS
		6	0	22.76	21.74	PASS
	HCH	1	0	23.95	23.22	PASS
		1	3	23.96	23.28	PASS
		1	5	23.85	23.13	PASS
		3	0	23.86	23.06	PASS
		3	2	23.89	23.06	PASS
		3	3	23.80	23.01	PASS
		6	0	23.35	22.33	PASS

Conducted Output Power Test Result (Channel Bandwidth: 3 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm] QPSK	Average Power [dBm] 16QAM	Verdict
		Size	Offset			
QPSK / 16QAM	LCH	1	0	23.20	22.47	PASS
		1	7	23.32	22.60	PASS
		1	14	23.47	22.75	PASS
		8	0	22.78	21.77	PASS
		8	4	23.14	22.26	PASS
		8	7	23.10	22.06	PASS
		15	0	22.98	21.97	PASS
	MCH	1	0	23.57	22.91	PASS
		1	7	23.76	23.10	PASS
		1	14	23.71	23.04	PASS
		8	0	22.90	21.50	PASS
		8	4	22.97	21.90	PASS
		8	7	22.95	21.92	PASS
		15	0	22.86	21.59	PASS
	HCH	1	0	24.06	23.36	PASS
		1	7	23.78	23.15	PASS
		1	14	23.66	23.10	PASS
		8	0	23.28	22.27	PASS
		8	4	23.26	22.20	PASS
		8	7	23.36	22.25	PASS
		15	0	23.31	22.53	PASS

Conducted Output Power Test Result (Channel Bandwidth: 5 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm] QPSK	Average Power [dBm] 16QAM	Verdict
		Size	Offset			
QPSK / 16QAM	LCH	1	0	23.06	22.45	PASS
		1	12	23.39	22.79	PASS
		1	24	23.97	23.38	PASS
		12	0	22.90	22.01	PASS
		12	6	23.16	22.19	PASS
		12	13	22.81	21.96	PASS
		25	0	22.87	22.05	PASS
	MCH	1	0	23.41	22.89	PASS
		1	12	23.76	23.25	PASS
		1	24	23.81	23.27	PASS
		12	0	22.77	21.87	PASS
		12	6	22.85	21.99	PASS
		12	13	22.86	21.91	PASS
		25	0	22.69	21.64	PASS
	HCH	1	0	23.93	23.50	PASS
		1	12	24.23	23.71	PASS
		1	24	23.59	23.06	PASS
		12	0	23.07	22.15	PASS
		12	6	23.28	22.17	PASS
		12	13	23.22	22.21	PASS
		25	0	23.20	22.16	PASS

Conducted Output Power Test Result (Channel Bandwidth: 10 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm] QPSK	Average Power [dBm] 16QAM	Verdict
		Size	Offset			
QPSK / 16QAM	LCH	1	0	22.87	22.15	PASS
		1	24	24.54	23.96	PASS
		1	49	23.32	22.74	PASS
		25	0	22.76	21.77	PASS
		25	12	22.90	21.79	PASS
		25	25	22.67	21.51	PASS
		50	0	22.70	21.76	PASS
	MCH	1	0	23.65	22.98	PASS
		1	24	24.04	23.49	PASS
		1	49	23.63	23.07	PASS
		25	0	22.87	21.70	PASS
		25	12	22.83	21.73	PASS
		25	25	22.87	21.81	PASS
		50	0	22.79	21.80	PASS
	HCH	1	0	23.78	23.23	PASS
		1	24	24.48	23.94	PASS
		1	49	23.16	22.63	PASS
		25	0	23.14	22.14	PASS
		25	12	23.03	22.04	PASS
		25	25	23.16	22.18	PASS
		50	0	23.25	22.15	PASS

## E.2 Peak-to-Average Ratio

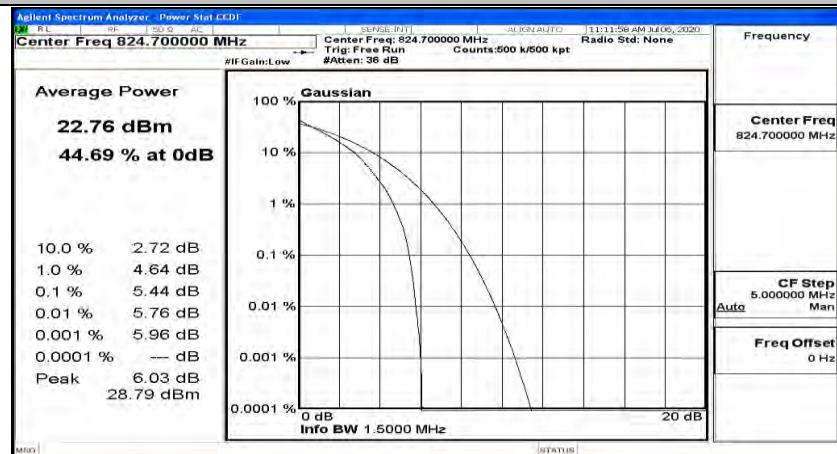
Peak-to Average Ratio Test Result (Channel Bandwidth: 1.4 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.44	<13	PASS
	MCH	5.33	<13	PASS
	HCH	4.79	<13	PASS
16QAM	LCH	6.33	<13	PASS
	MCH	6.26	<13	PASS
	HCH	5.75	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 3 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.35	<13	PASS
	MCH	5.31	<13	PASS
	HCH	4.95	<13	PASS
16QAM	LCH	6.25	<13	PASS
	MCH	6.23	<13	PASS
	HCH	5.87	<13	PASS

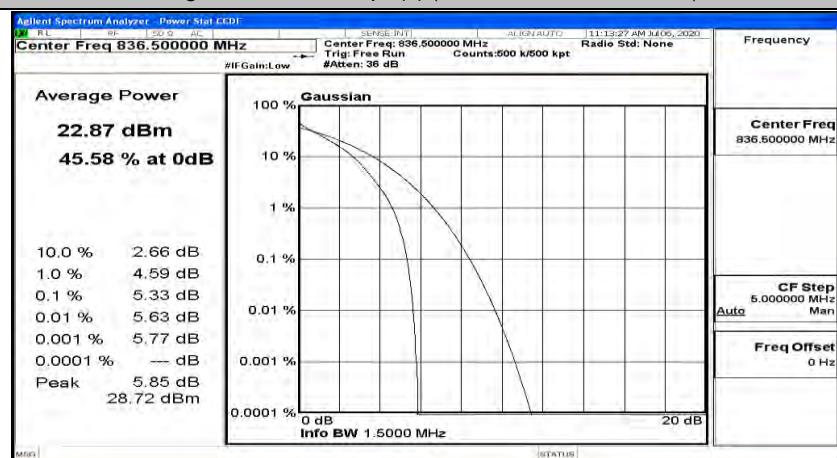
Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.17	<13	PASS
	MCH	5.22	<13	PASS
	HCH	4.87	<13	PASS
16QAM	LCH	6.02	<13	PASS
	MCH	6.1	<13	PASS
	HCH	5.67	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.03	<13	PASS
	MCH	5.19	<13	PASS
	HCH	4.97	<13	PASS
16QAM	LCH	5.83	<13	PASS
	MCH	6.01	<13	PASS
	HCH	5.79	<13	PASS

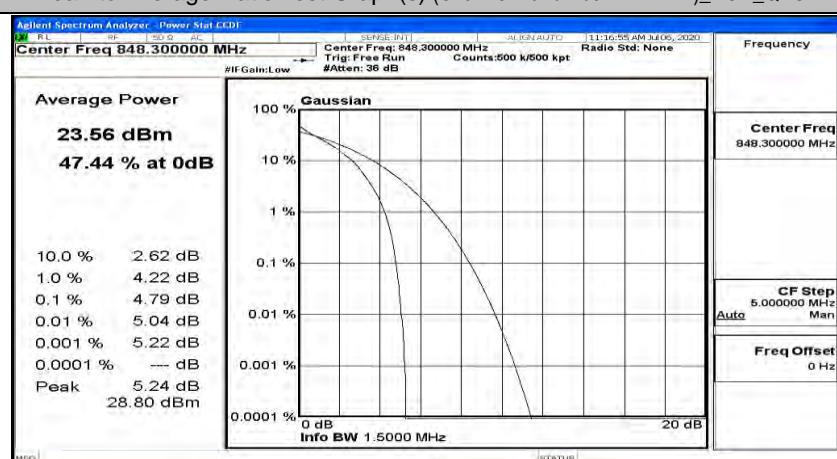
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_LCH\_QPSK



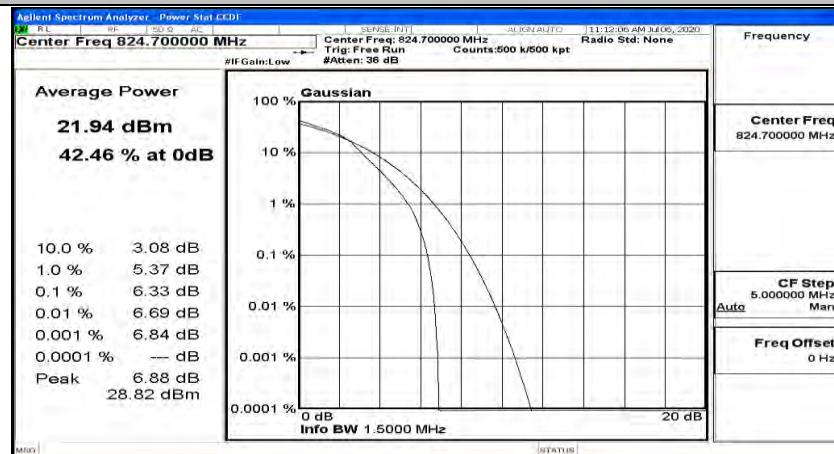
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_MCH\_QPSK



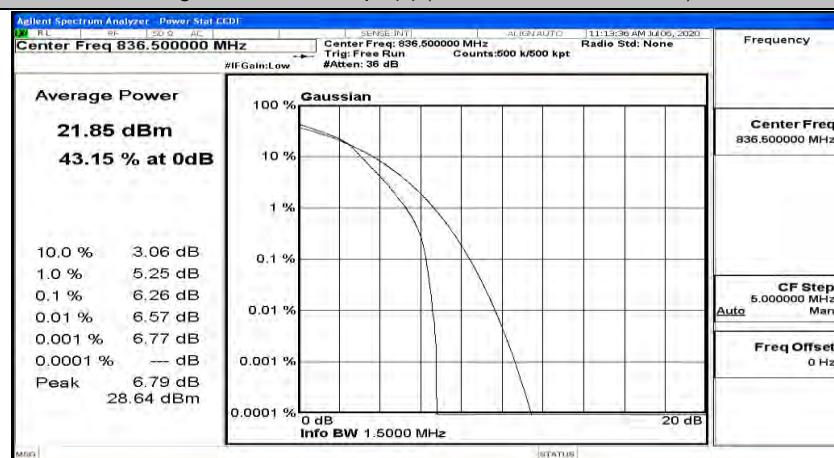
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_HCH\_QPSK



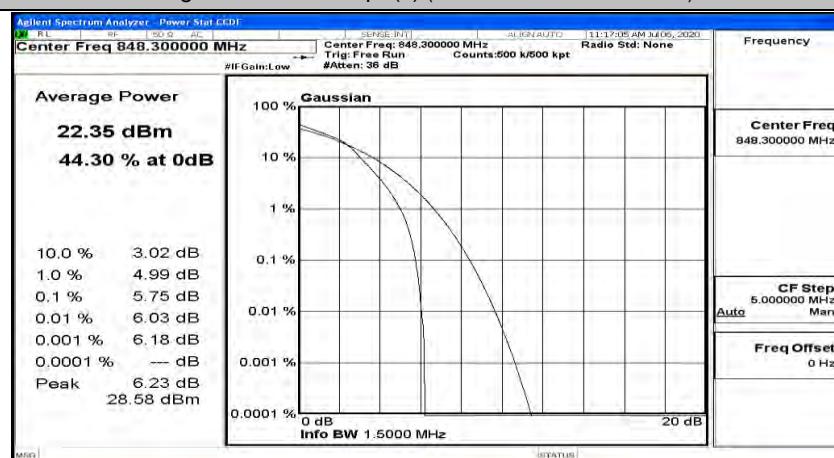
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_LCH\_16QAM



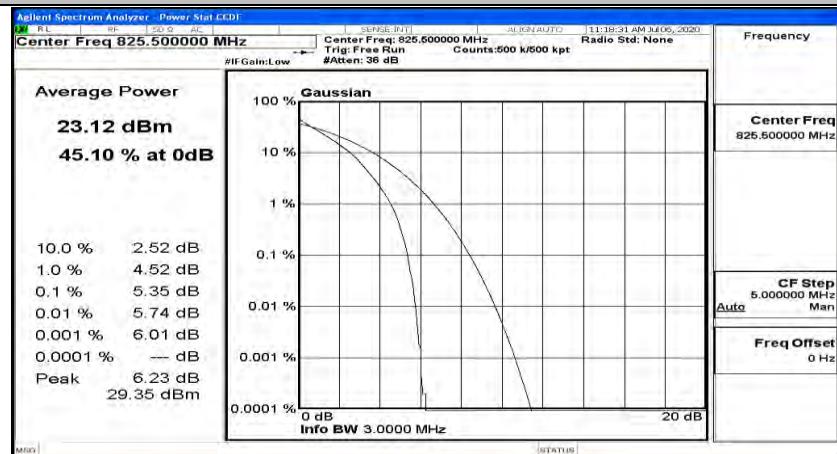
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_MCH\_16QAM



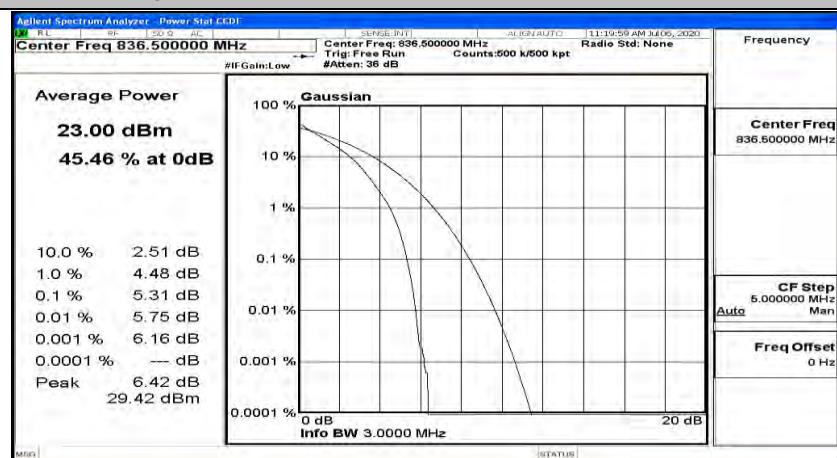
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_HCH\_16QAM



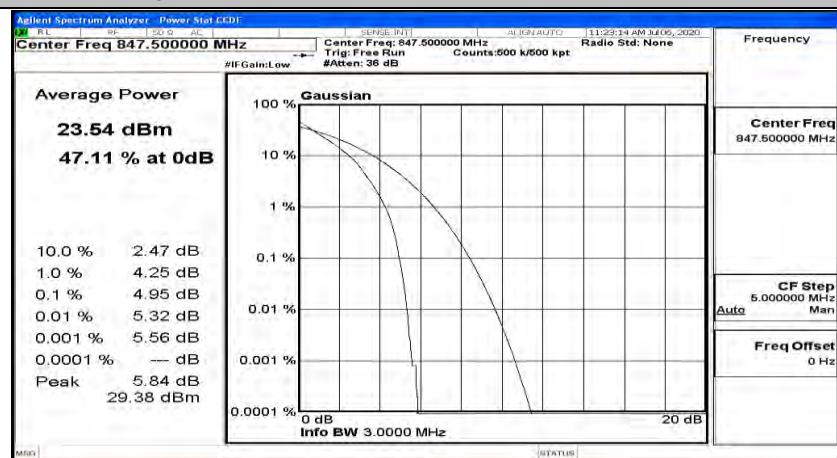
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)\_LCH\_QPSK



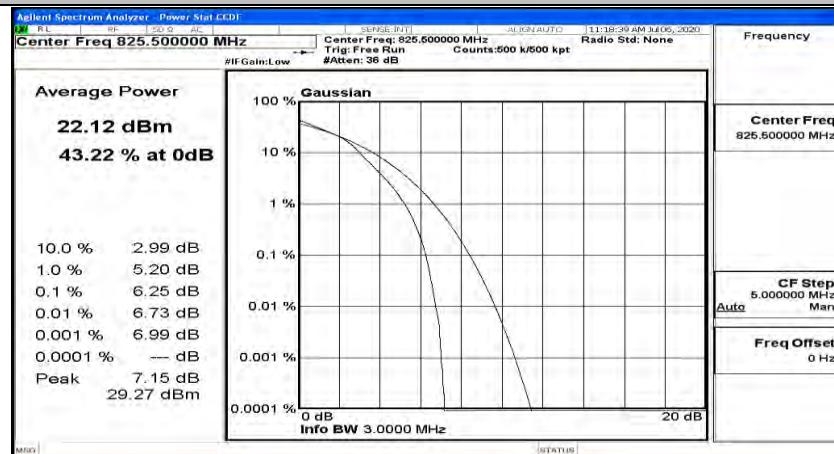
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)\_MCH\_QPSK



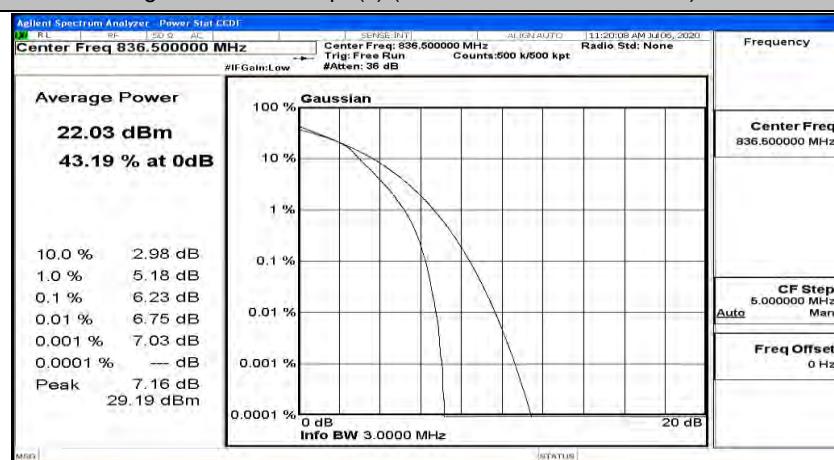
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)\_HCH\_QPSK



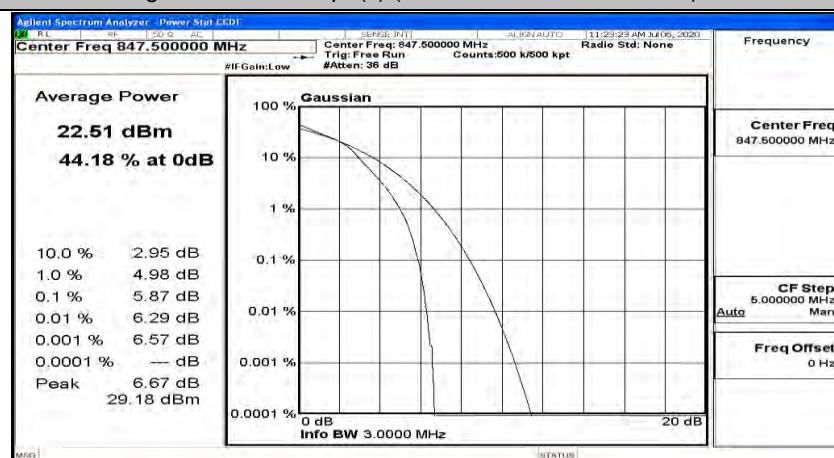
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)\_LCH\_16QAM



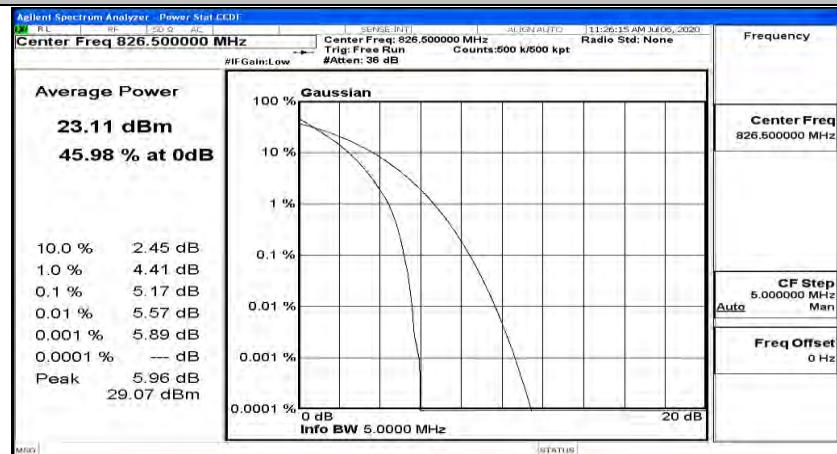
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)\_MCH\_16QAM



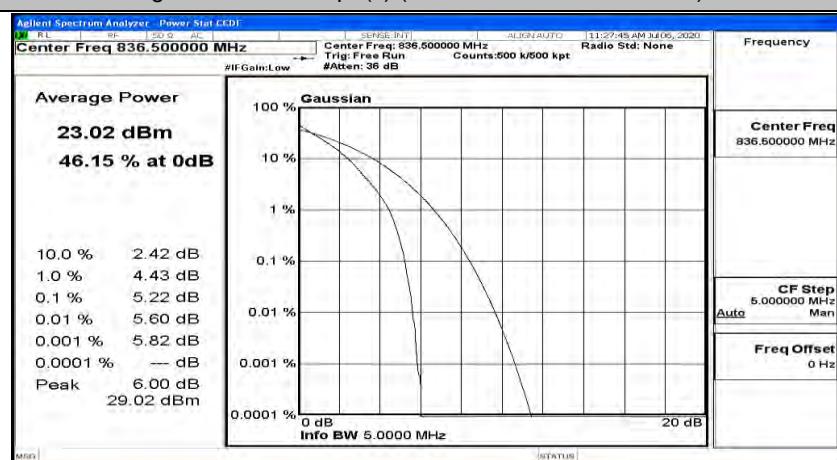
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)\_HCH\_16QAM



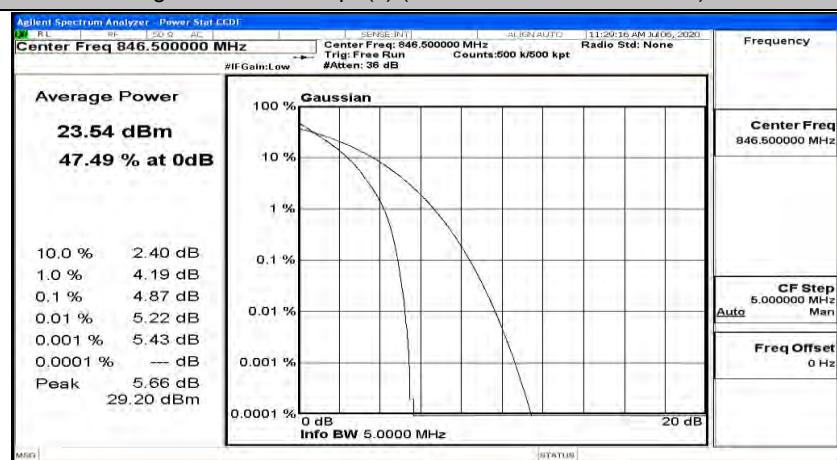
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)\_LCH\_QPSK



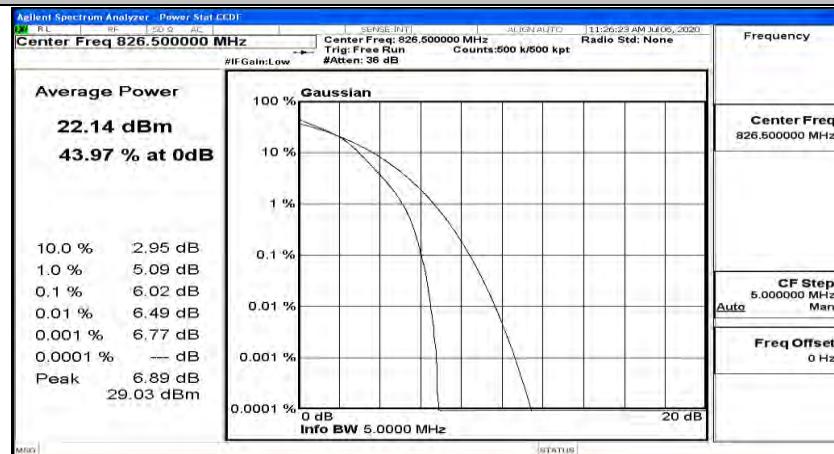
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)\_MCH\_QPSK



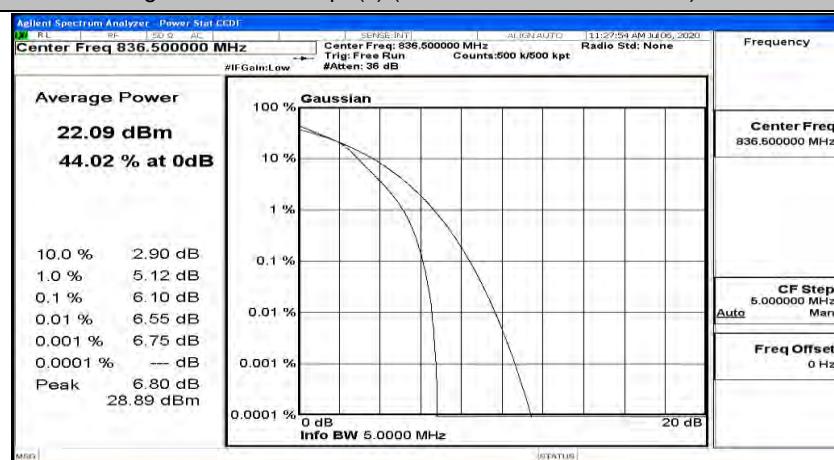
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)\_HCH\_QPSK



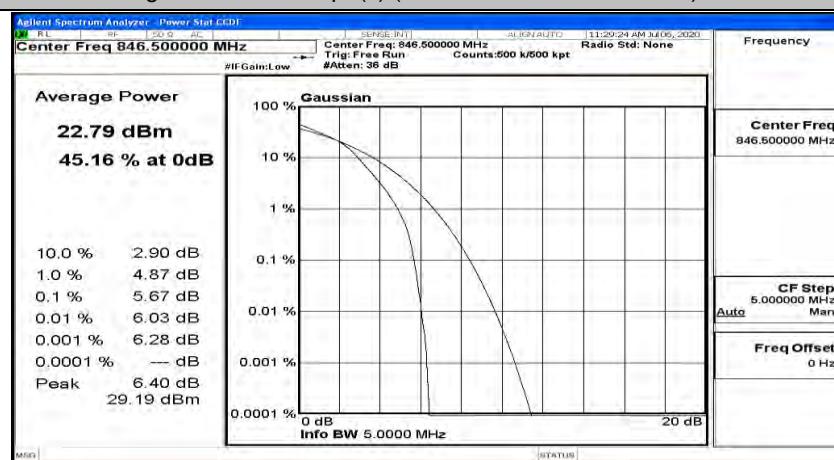
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)\_LCH\_16QAM



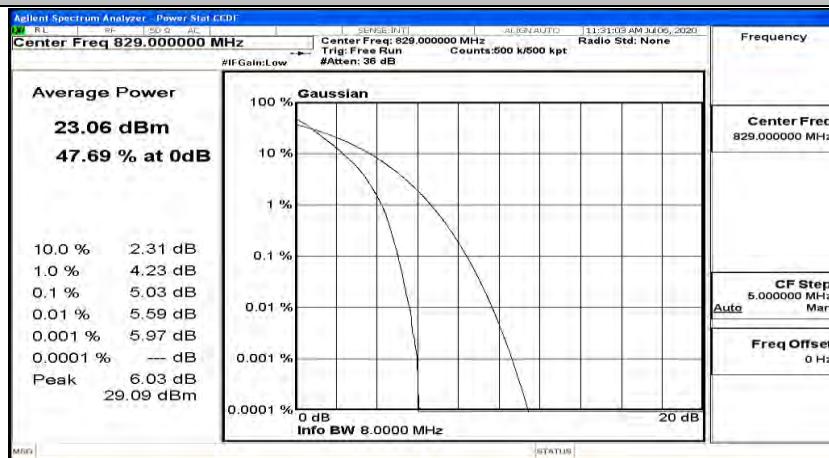
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)\_MCH\_16QAM



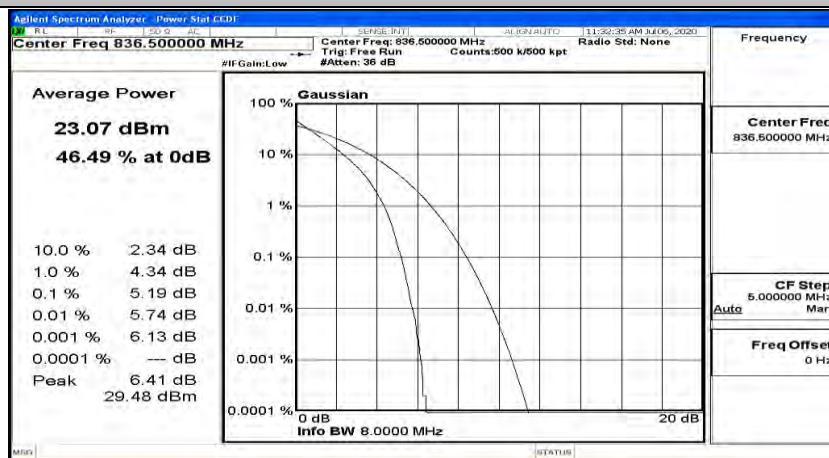
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)\_HCH\_16QAM



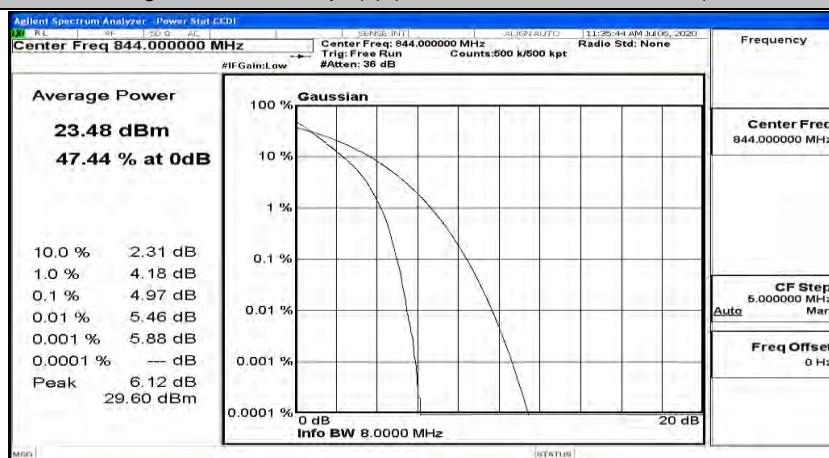
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)\_LCH\_QPSK



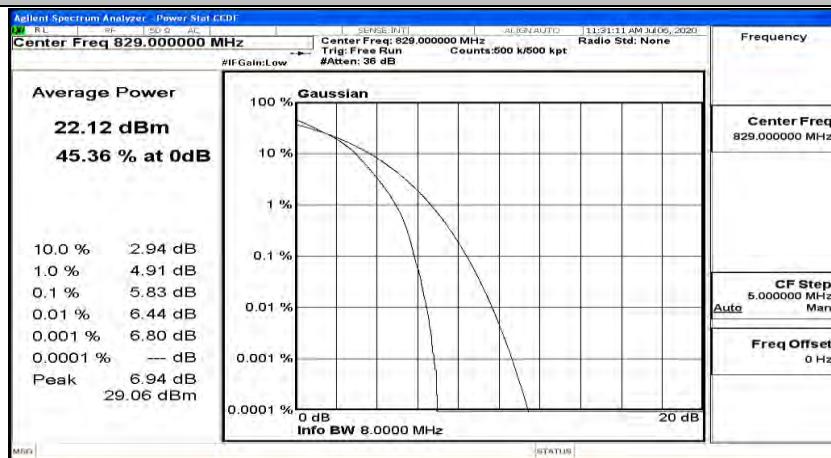
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)\_MCH\_QPSK



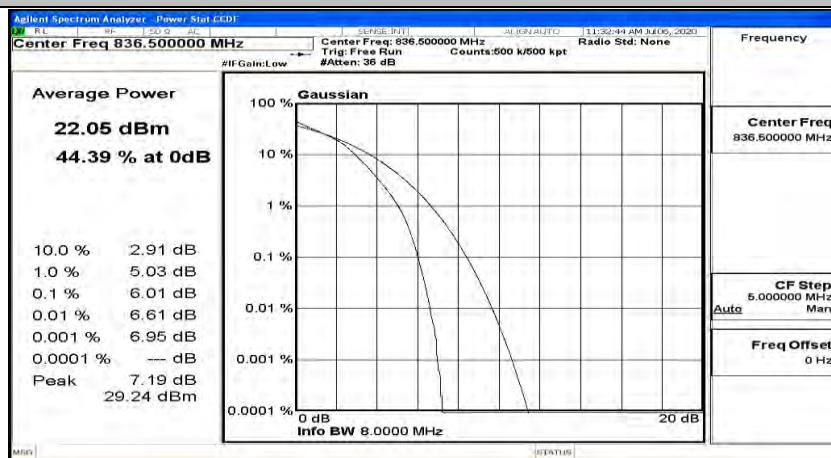
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)\_HCH\_QPSK



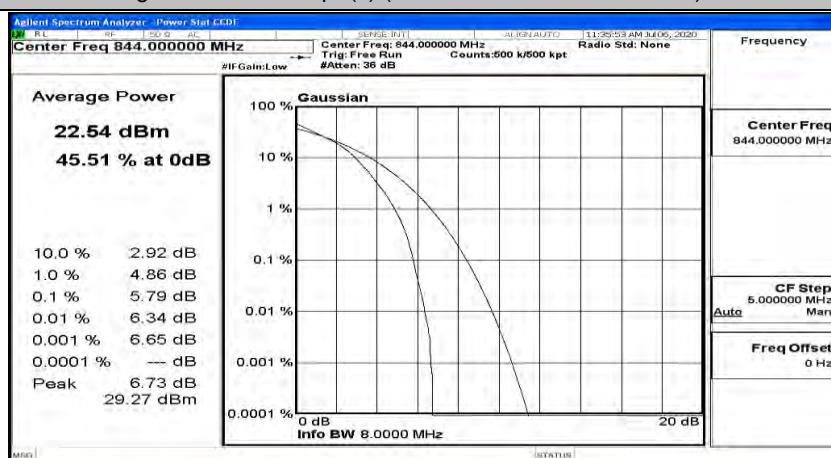
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)\_LCH\_16QAM



## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)\_MCH\_16QAM



## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)\_HCH\_16QAM



### E.3 26dB Bandwidth and Occupied Bandwidth

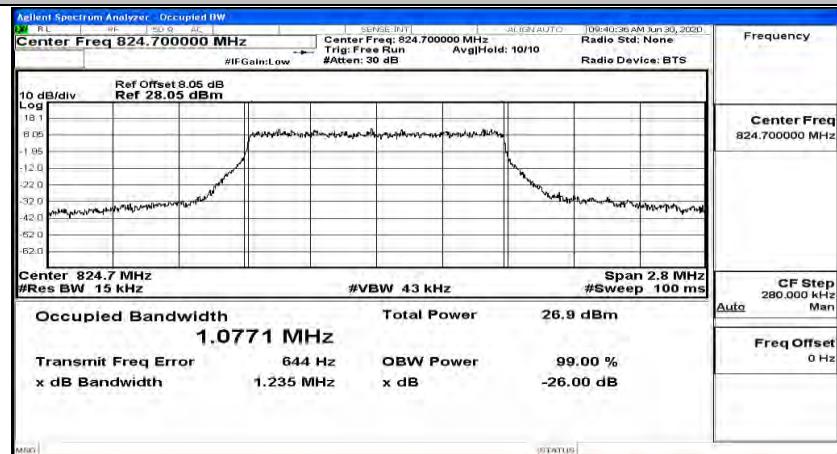
EBW & OBW Test Result (Channel Bandwidth: 1.4 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	1.0771	1.235	PASS
	MCH	1.0764	1.219	PASS
	HCH	1.0784	1.237	PASS
16QAM	LCH	1.0823	1.238	PASS
	MCH	1.0806	1.232	PASS
	HCH	1.0746	1.243	PASS

EBW & OBW Test Result (Channel Bandwidth: 3 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	2.6854	2.884	PASS
	MCH	2.6859	2.898	PASS
	HCH	2.6824	2.875	PASS
16QAM	LCH	2.6851	2.891	PASS
	MCH	2.6882	2.911	PASS
	HCH	2.6883	2.886	PASS

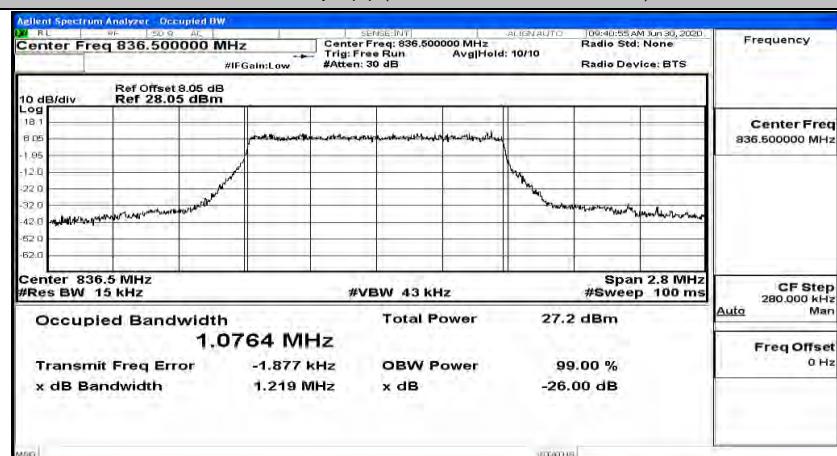
EBW & OBW Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	4.4881	4.843	PASS
	MCH	4.4754	4.796	PASS
	HCH	4.4643	4.846	PASS
16QAM	LCH	4.4660	4.837	PASS
	MCH	4.4815	4.808	PASS
	HCH	4.4765	4.809	PASS

EBW & OBW Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	8.9209	9.433	PASS
	MCH	8.9311	9.482	PASS
	HCH	8.9061	9.419	PASS
16QAM	LCH	8.9161	9.366	PASS
	MCH	8.9242	9.507	PASS
	HCH	8.9176	9.349	PASS

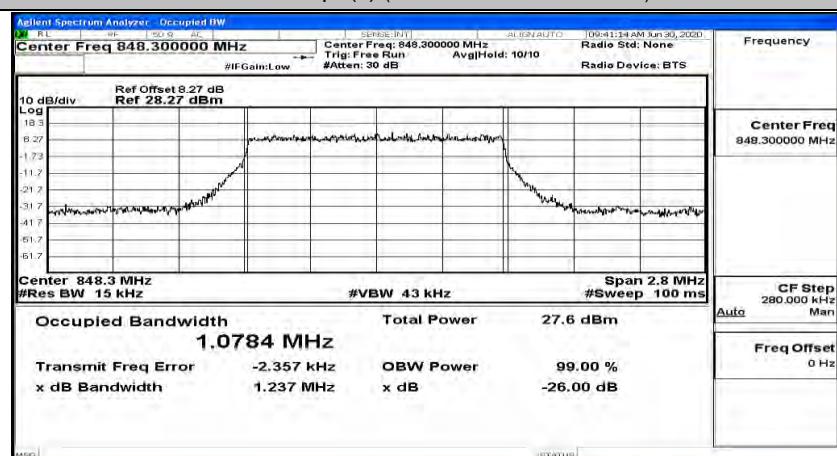
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_LCH\_QPSK



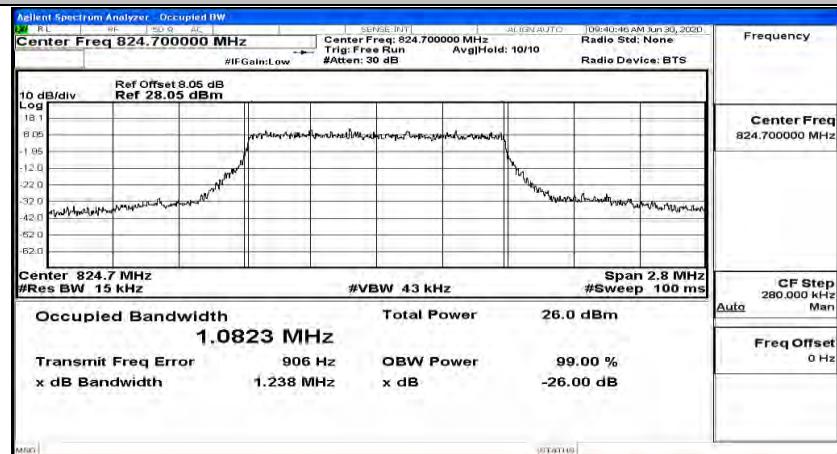
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_MCH\_QPSK



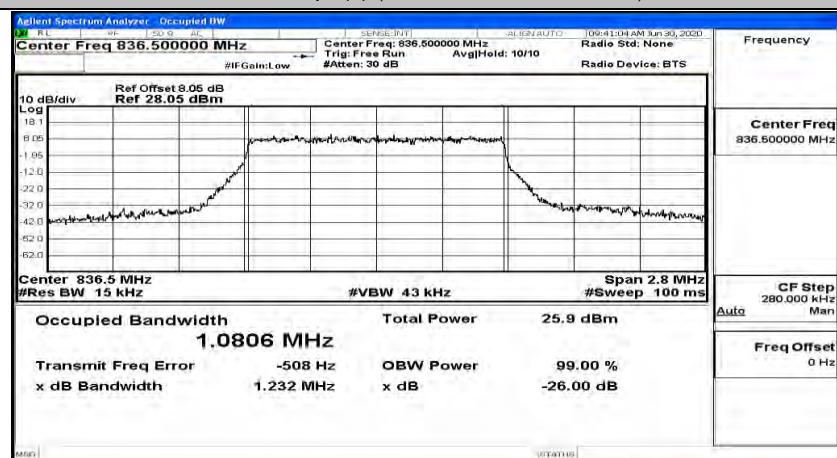
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_HCH\_QPSK



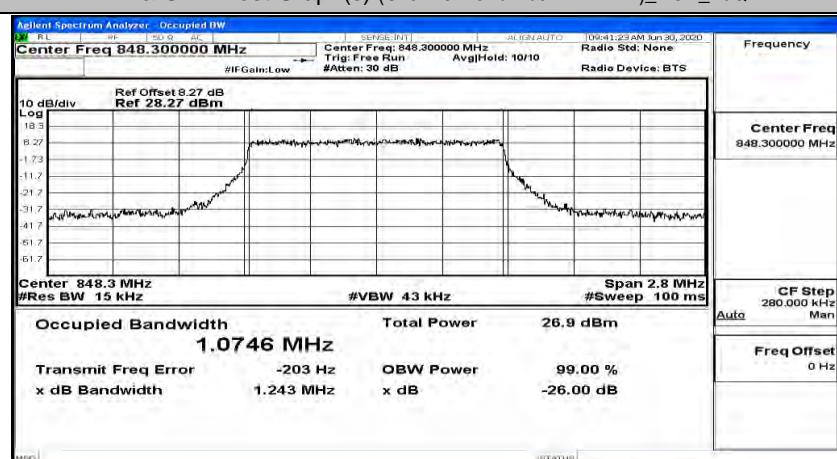
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_LCH\_16QAM



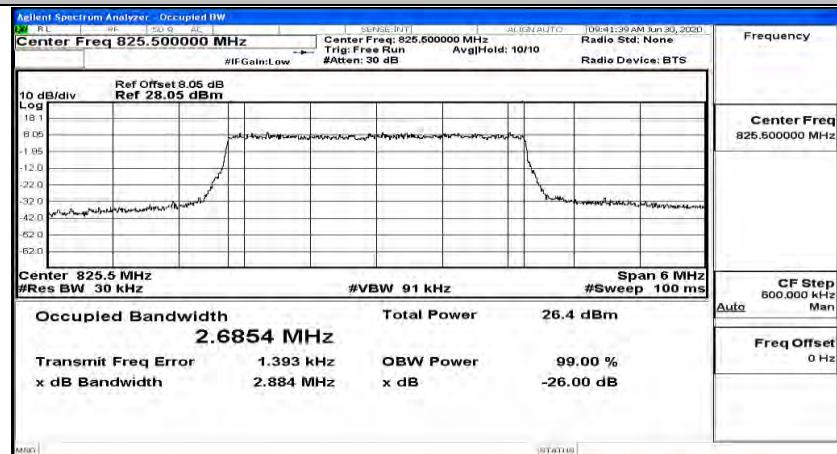
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_MCH\_16QAM



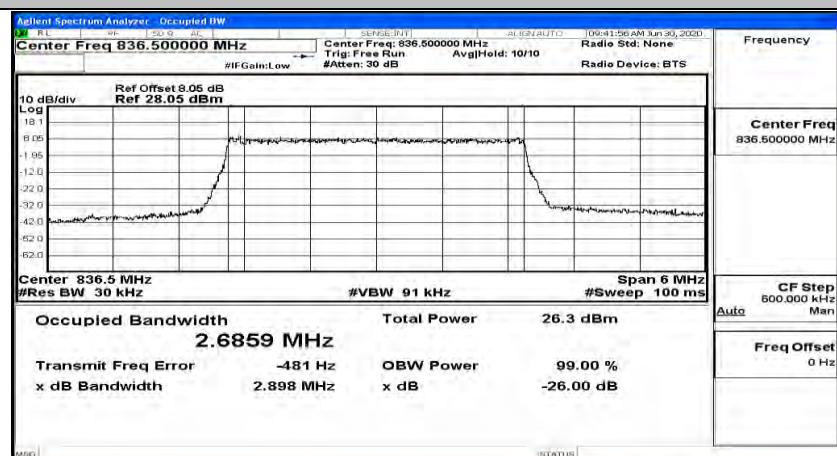
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_HCH\_16QAM



## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 3 MHz)\_LCH\_QPSK



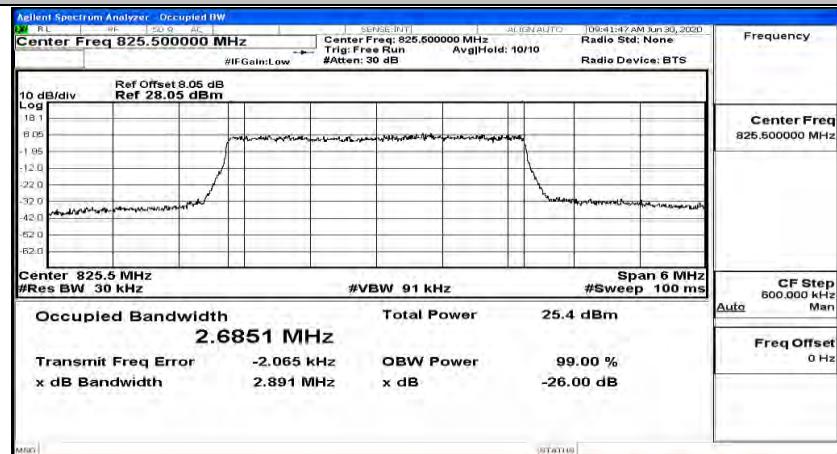
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 3 MHz)\_MCH\_QPSK



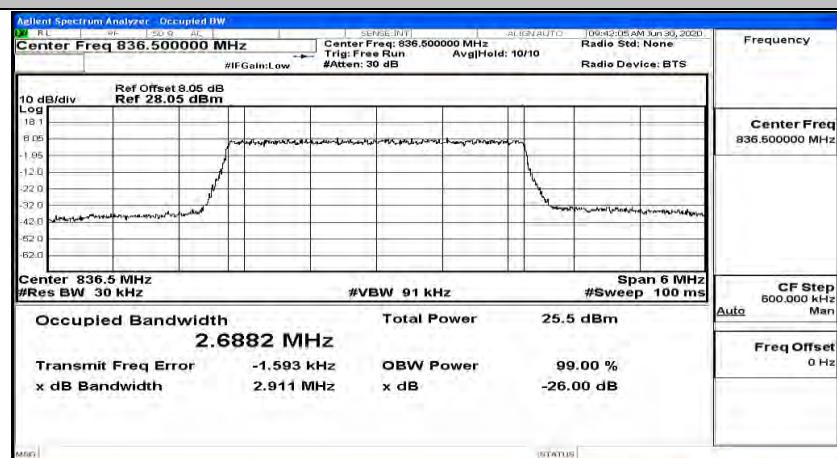
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 3 MHz)\_HCH\_QPSK



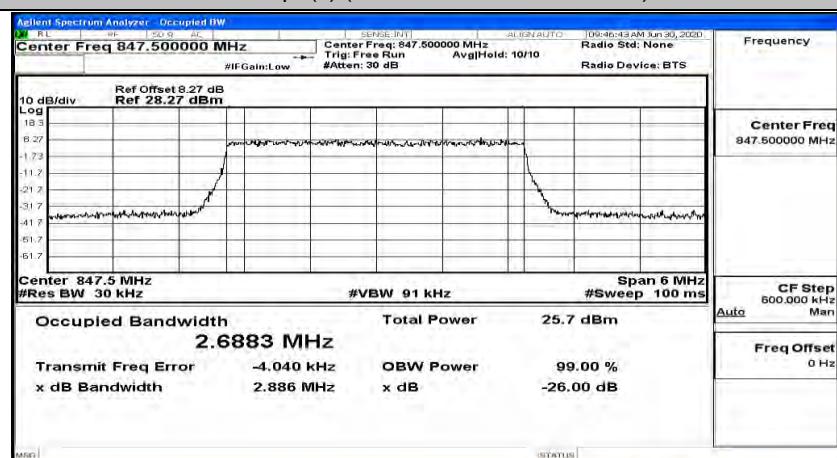
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 3 MHz)\_LCH\_16QAM



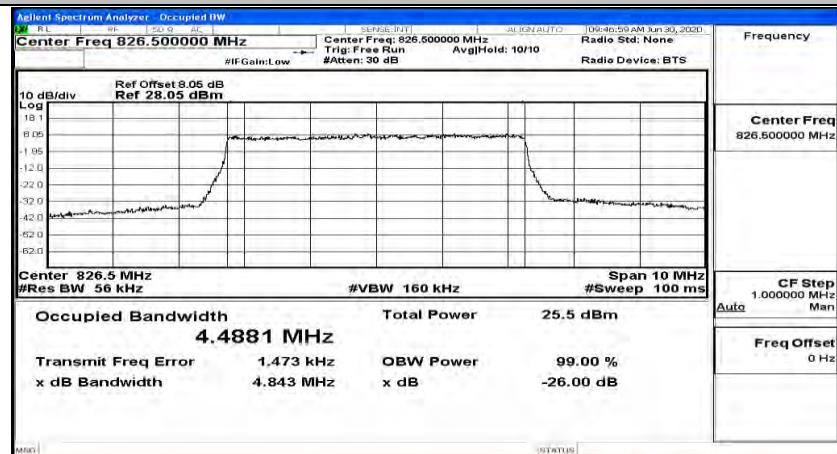
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 3 MHz)\_MCH\_16QAM



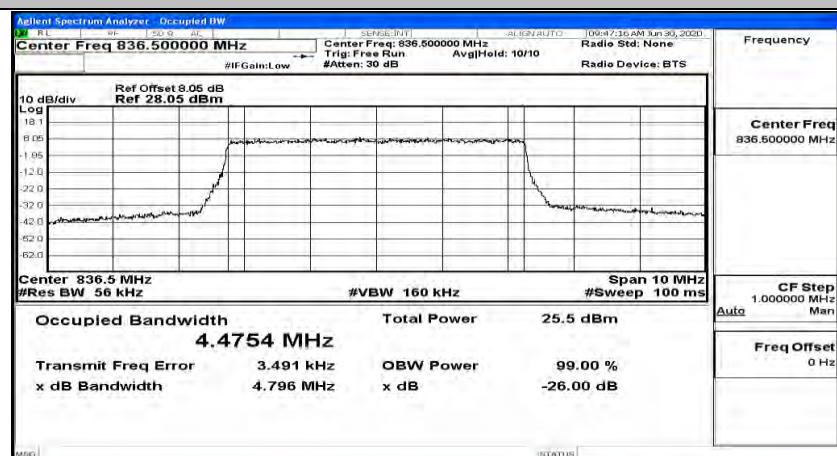
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 3 MHz)\_HCH\_16QAM



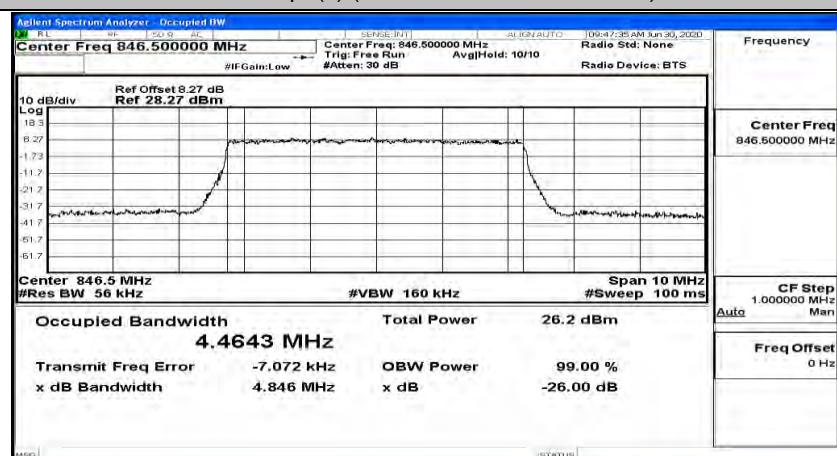
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 5 MHz)\_LCH\_QPSK



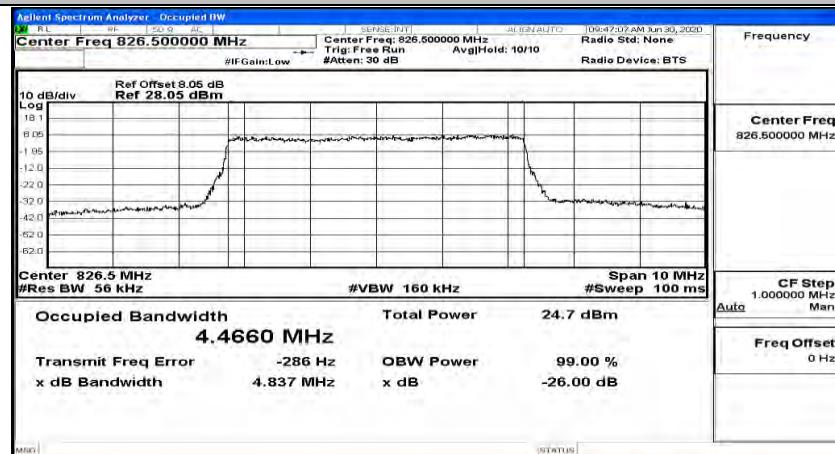
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 5 MHz)\_MCH\_QPSK



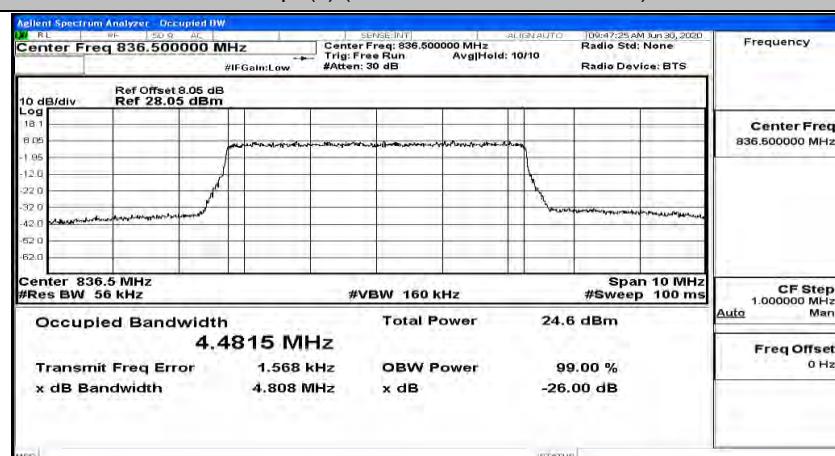
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 5 MHz)\_HCH\_QPSK



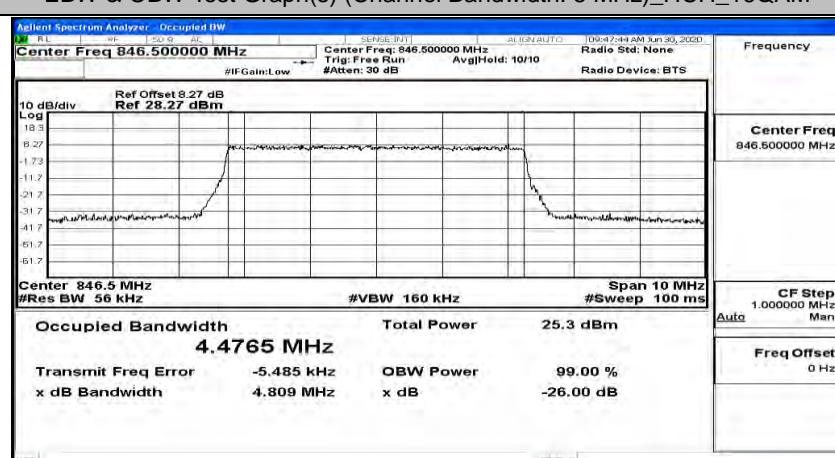
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 5 MHz)\_LCH\_16QAM



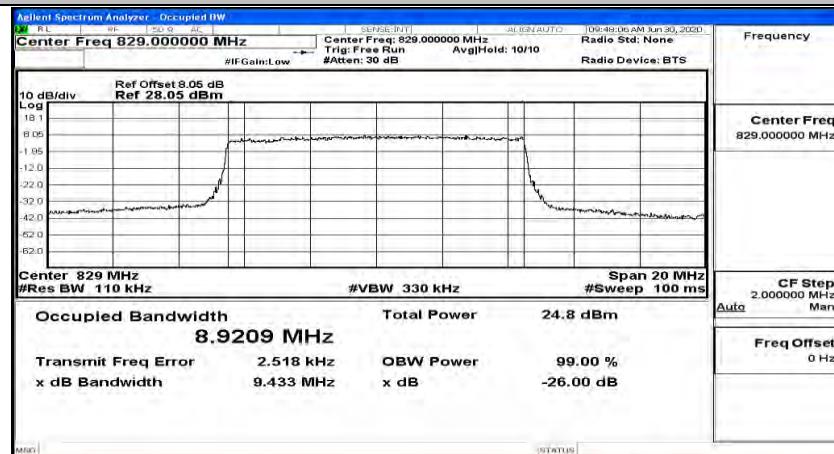
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 5 MHz)\_MCH\_16QAM



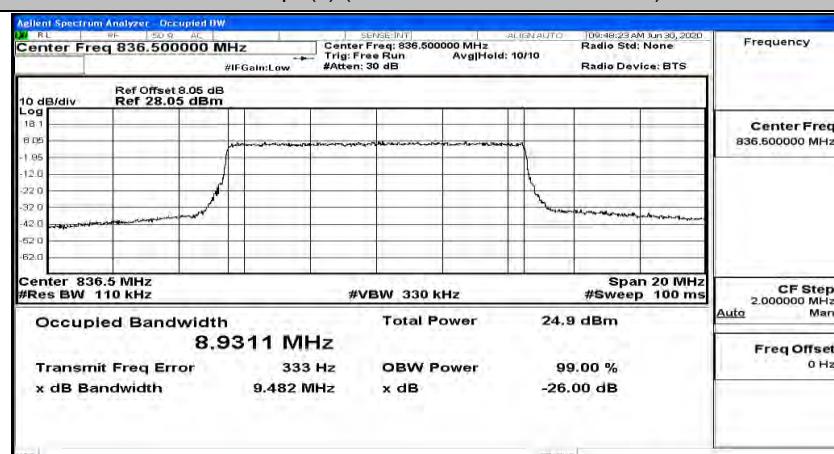
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 5 MHz)\_HCH\_16QAM



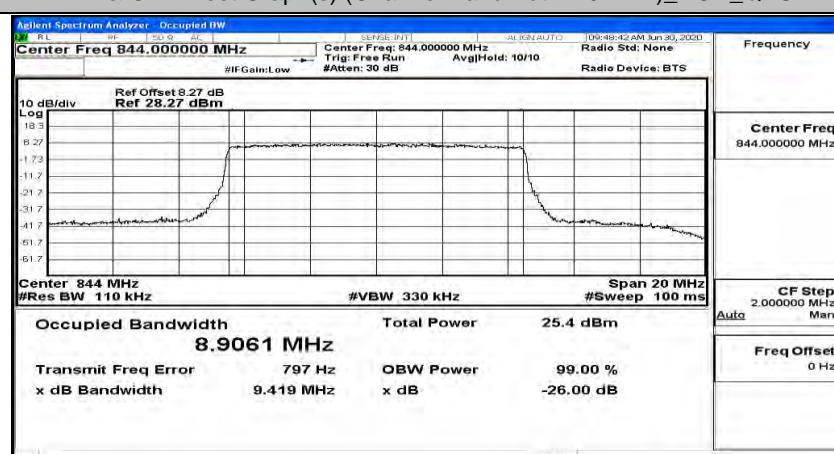
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 10 MHz)\_LCH\_QPSK



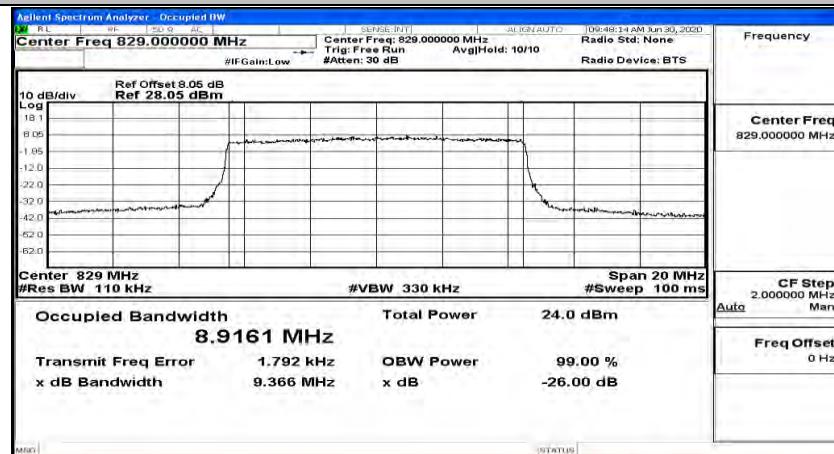
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 10 MHz)\_MCH\_QPSK



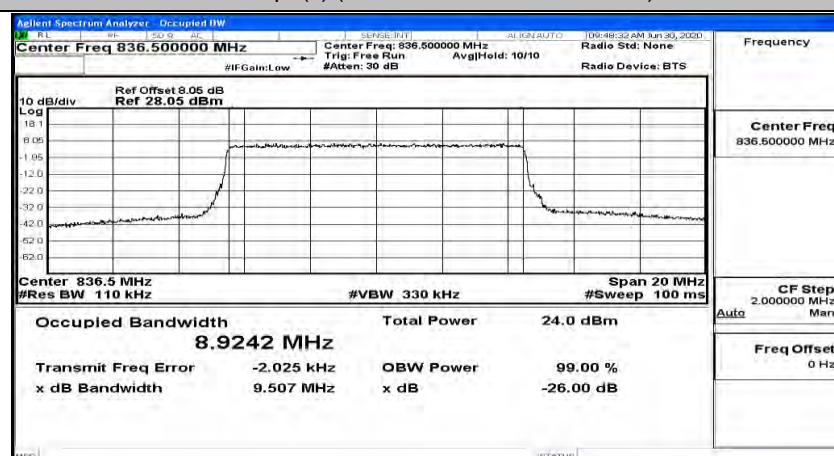
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 10 MHz)\_HCH\_QPSK



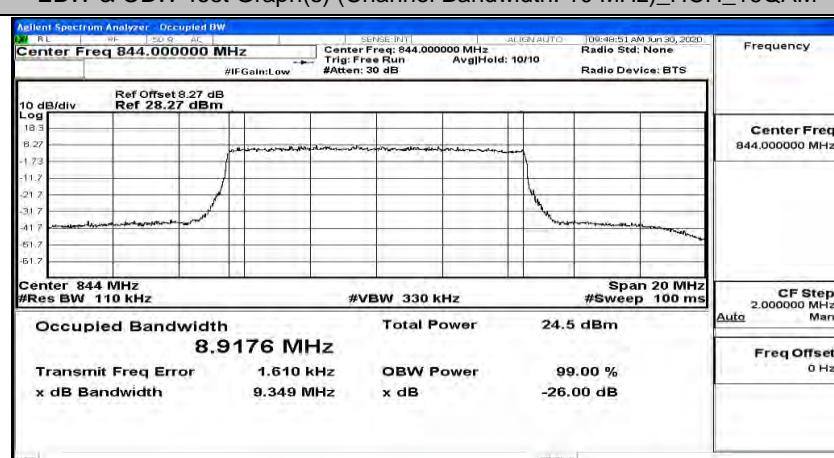
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 10 MHz)\_LCH\_16QAM



## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 10 MHz)\_MCH\_16QAM

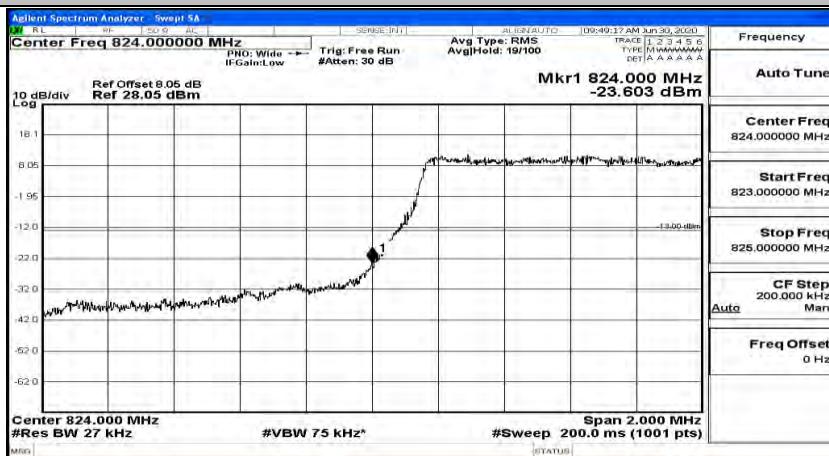


## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 10 MHz)\_HCH\_16QAM

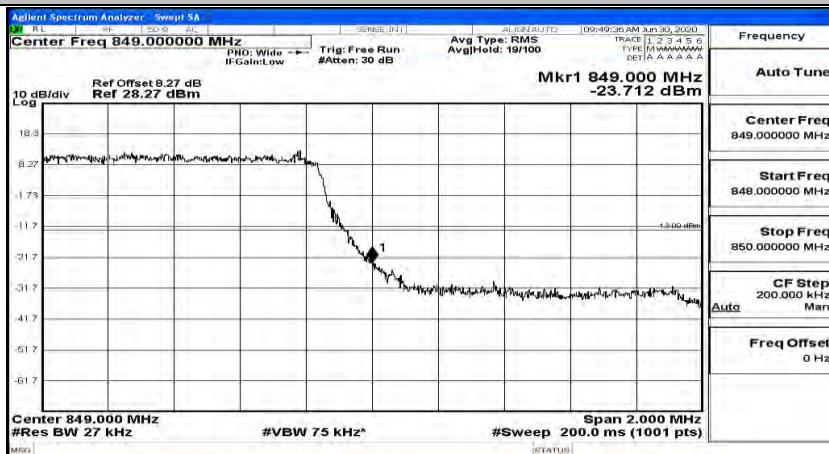


## E.4 Band Edge

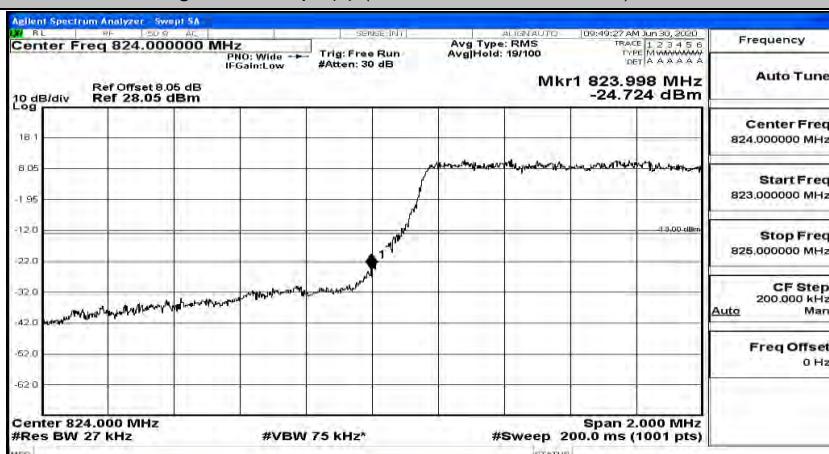
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_LCH\_QPSK



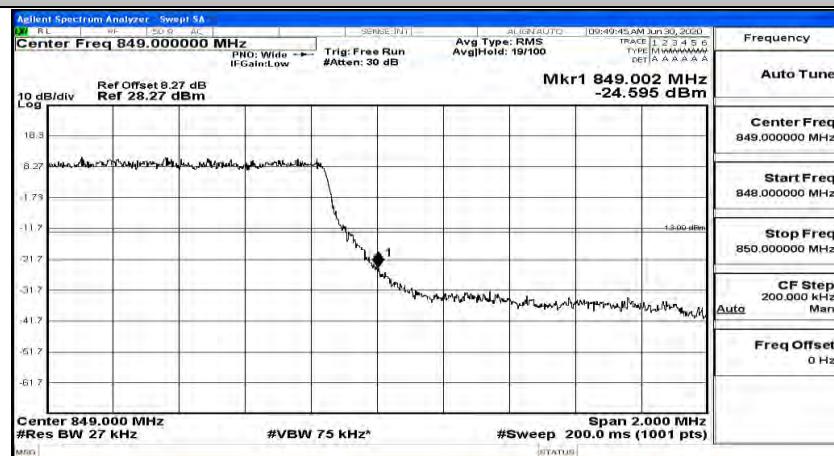
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_HCH\_QPSK



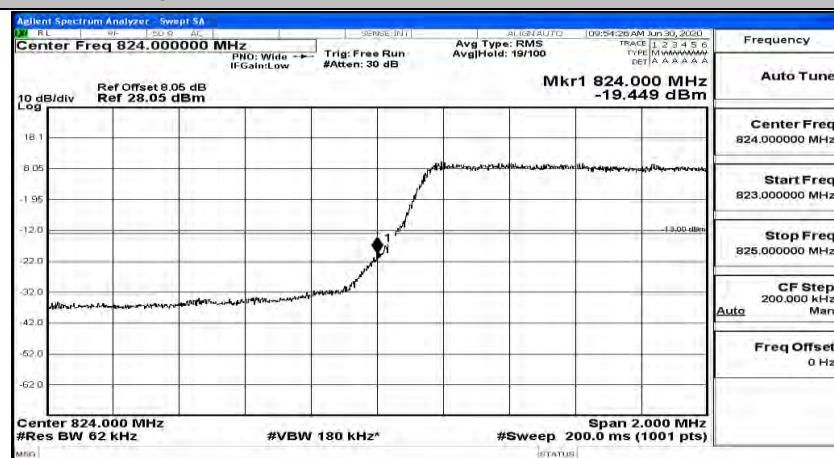
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_LCH\_16QAM



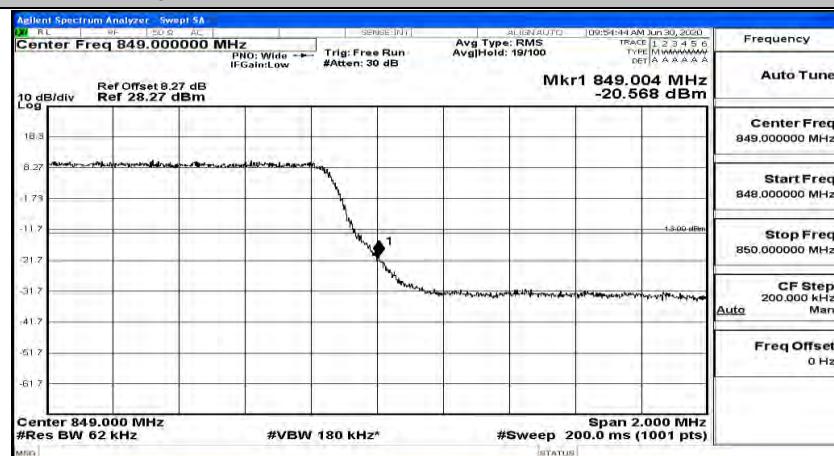
## Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_HCH\_16QAM



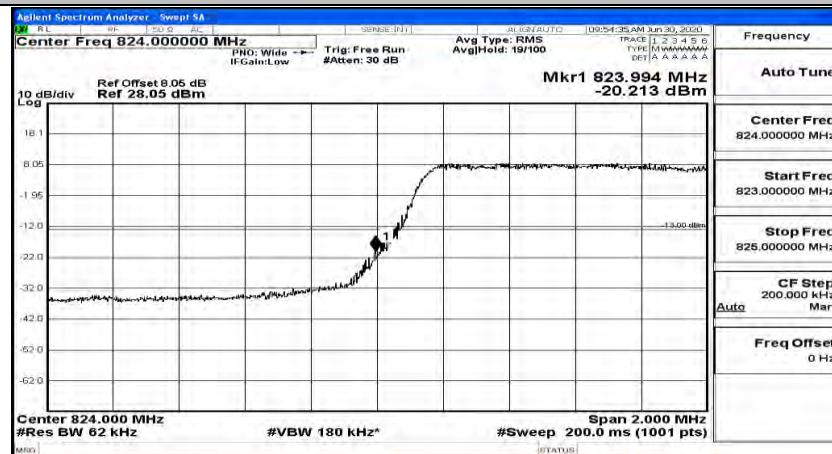
## Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)\_LCH\_QPSK



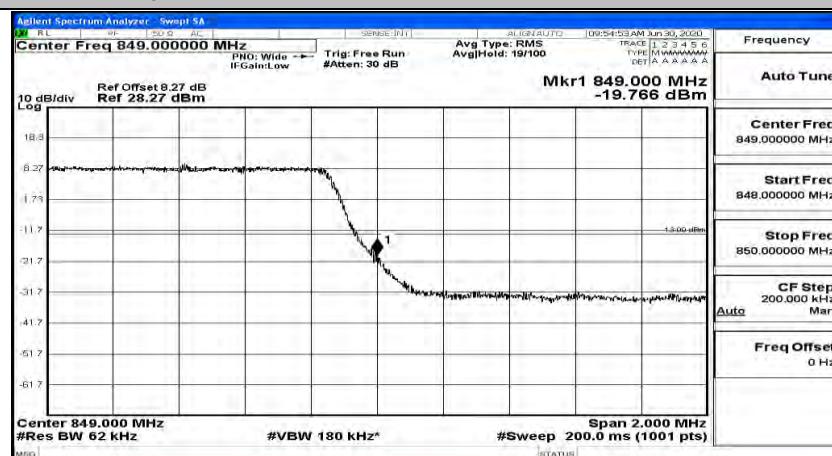
## Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)\_HCH\_QPSK



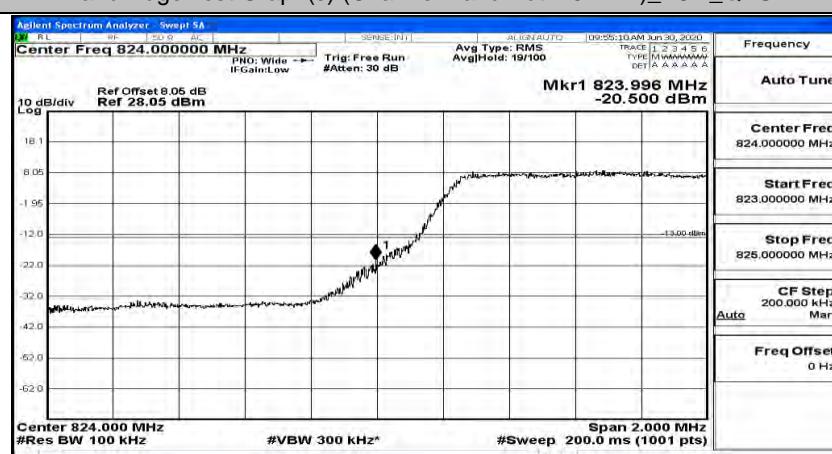
## Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)\_LCH\_16QAM



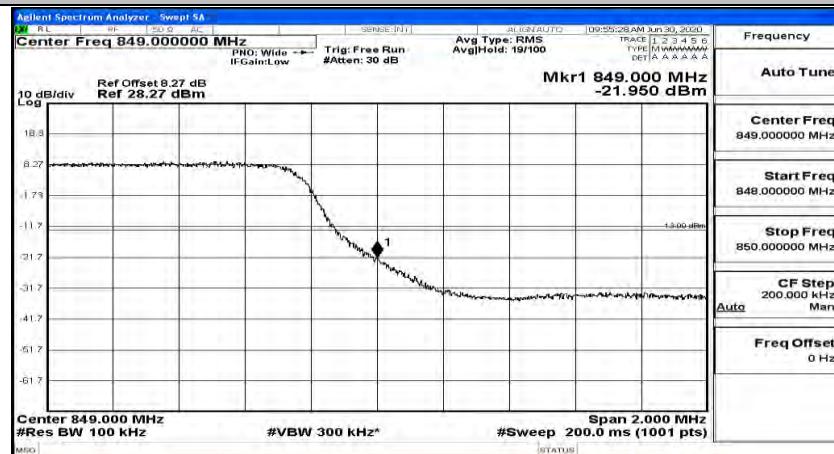
## Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)\_HCH\_16QAM



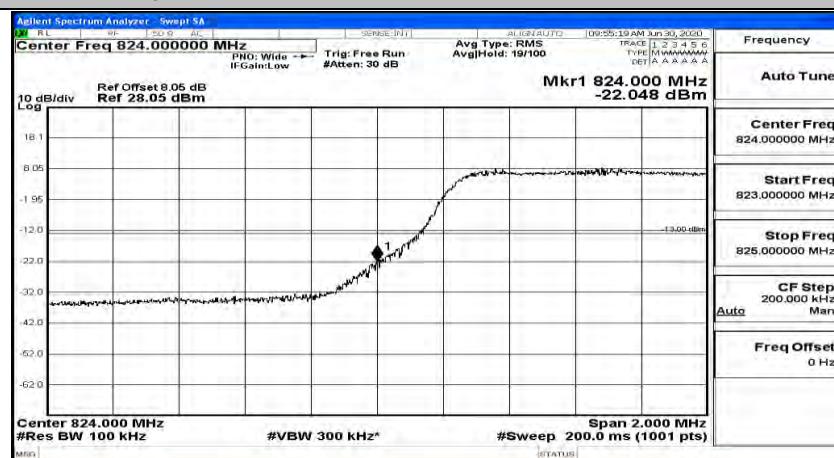
## Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)\_LCH\_QPSK



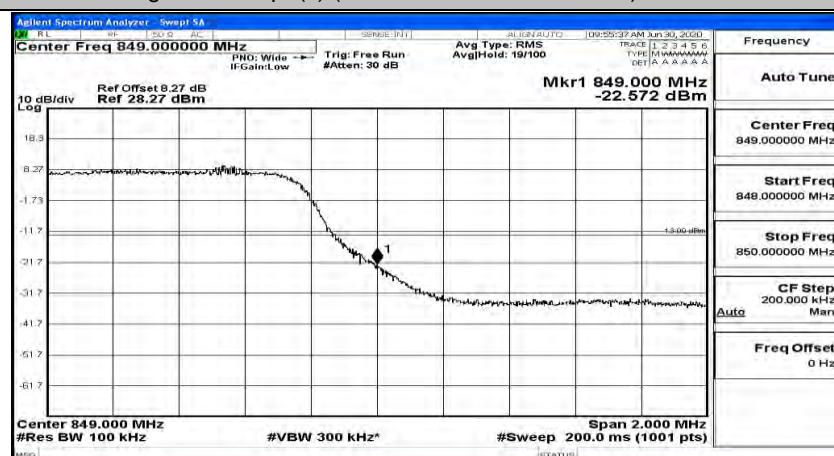
## Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)\_HCH\_QPSK



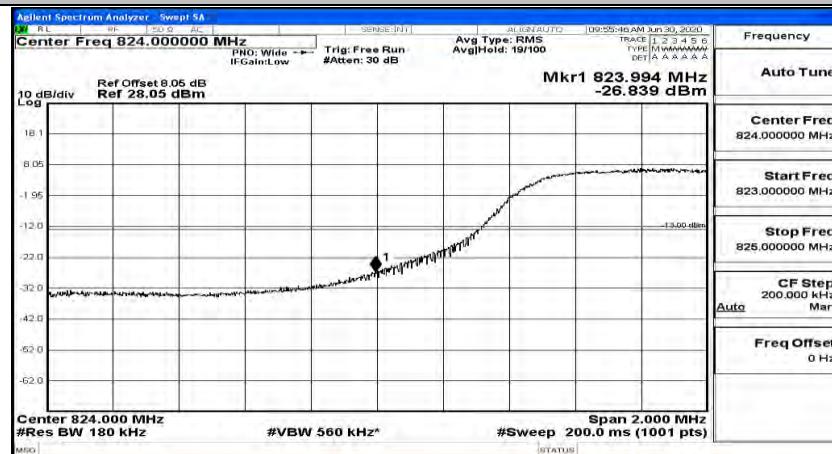
## Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)\_LCH\_16QAM



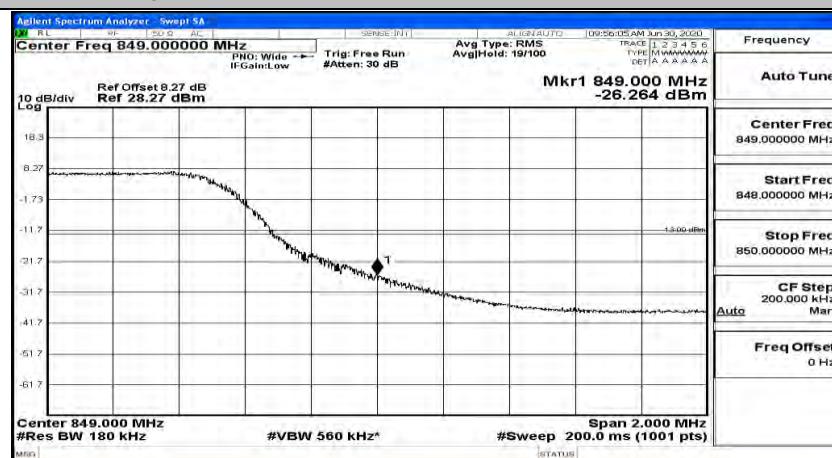
## Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)\_HCH\_16QAM



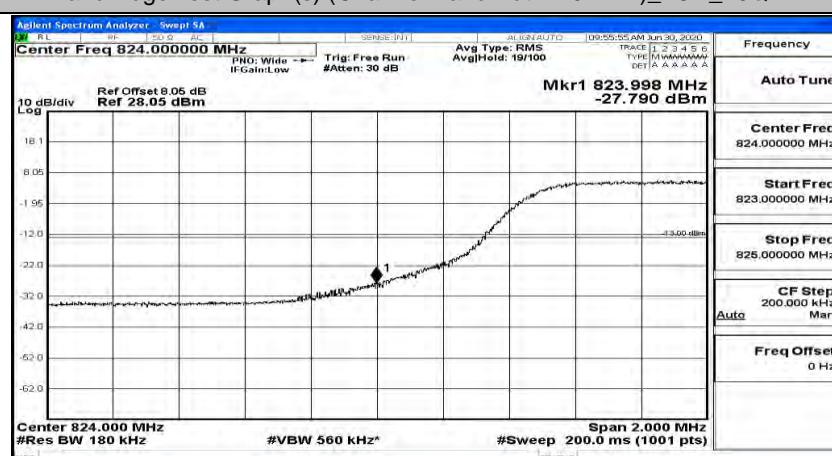
## Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)\_LCH\_QPSK

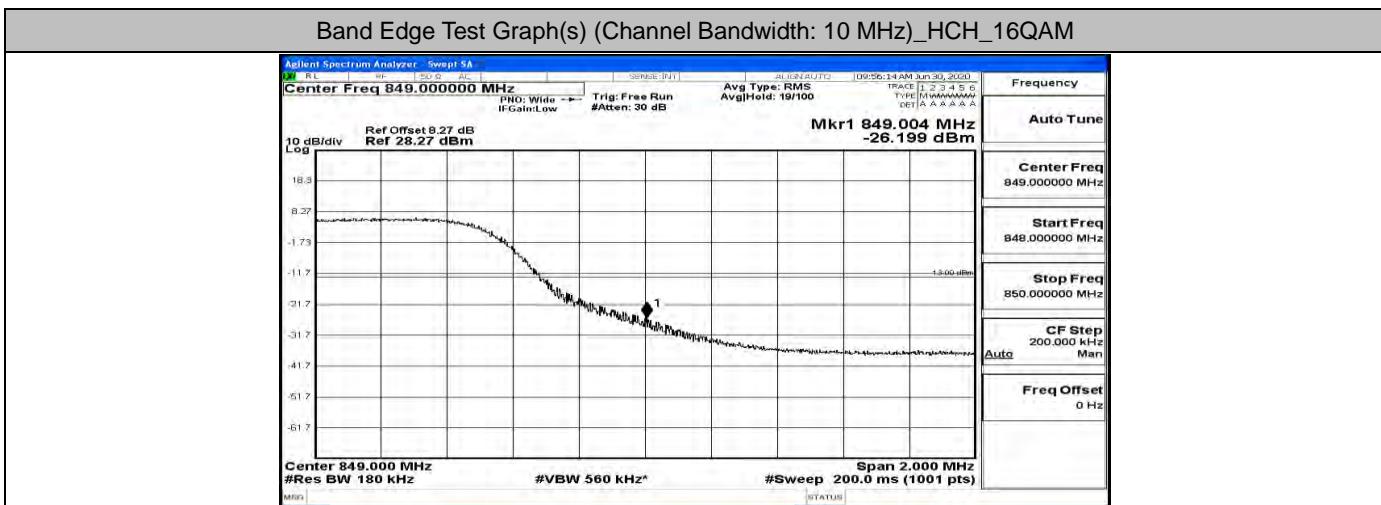


## Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)\_HCH\_QPSK



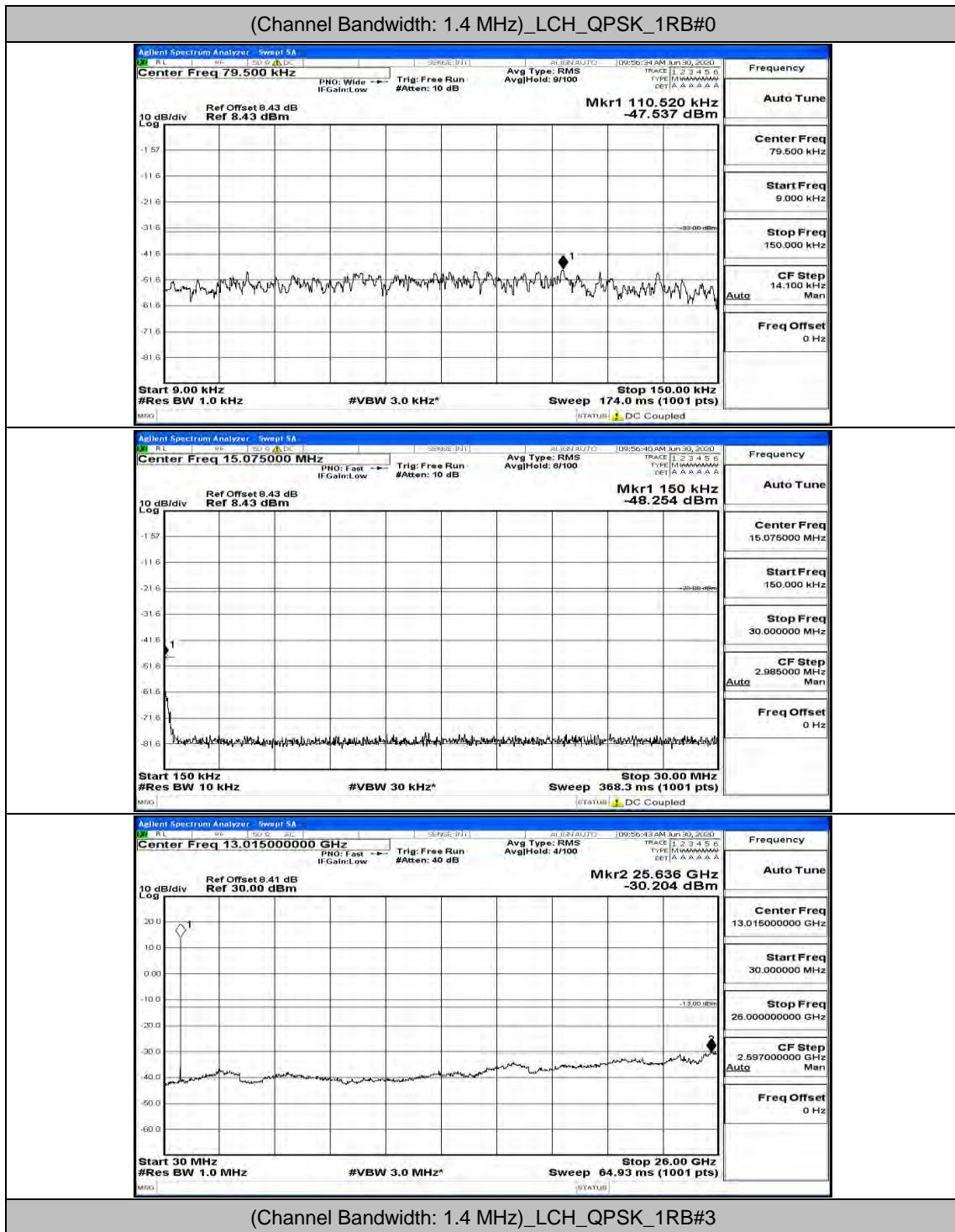
## Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)\_LCH\_16QAM

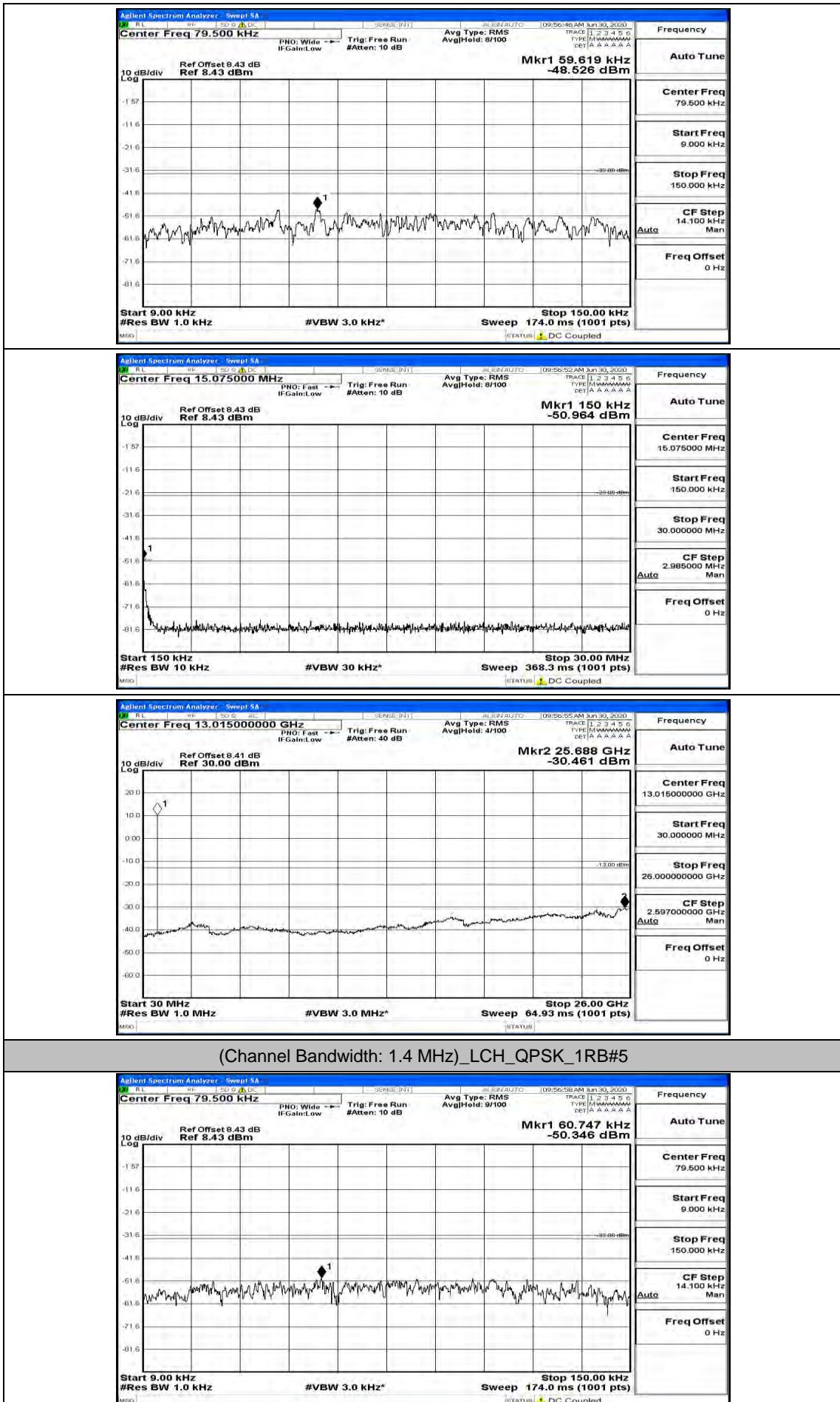


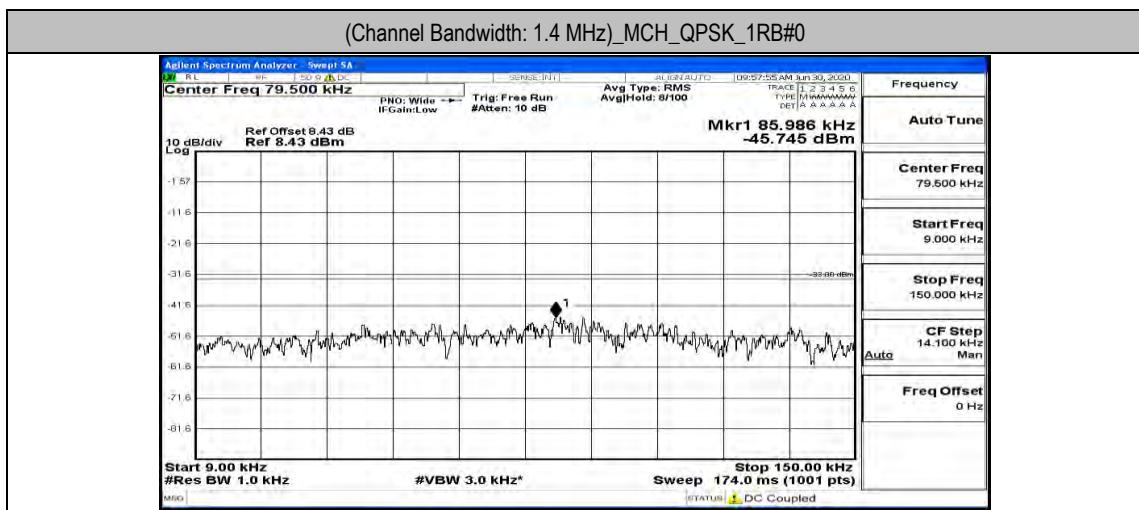
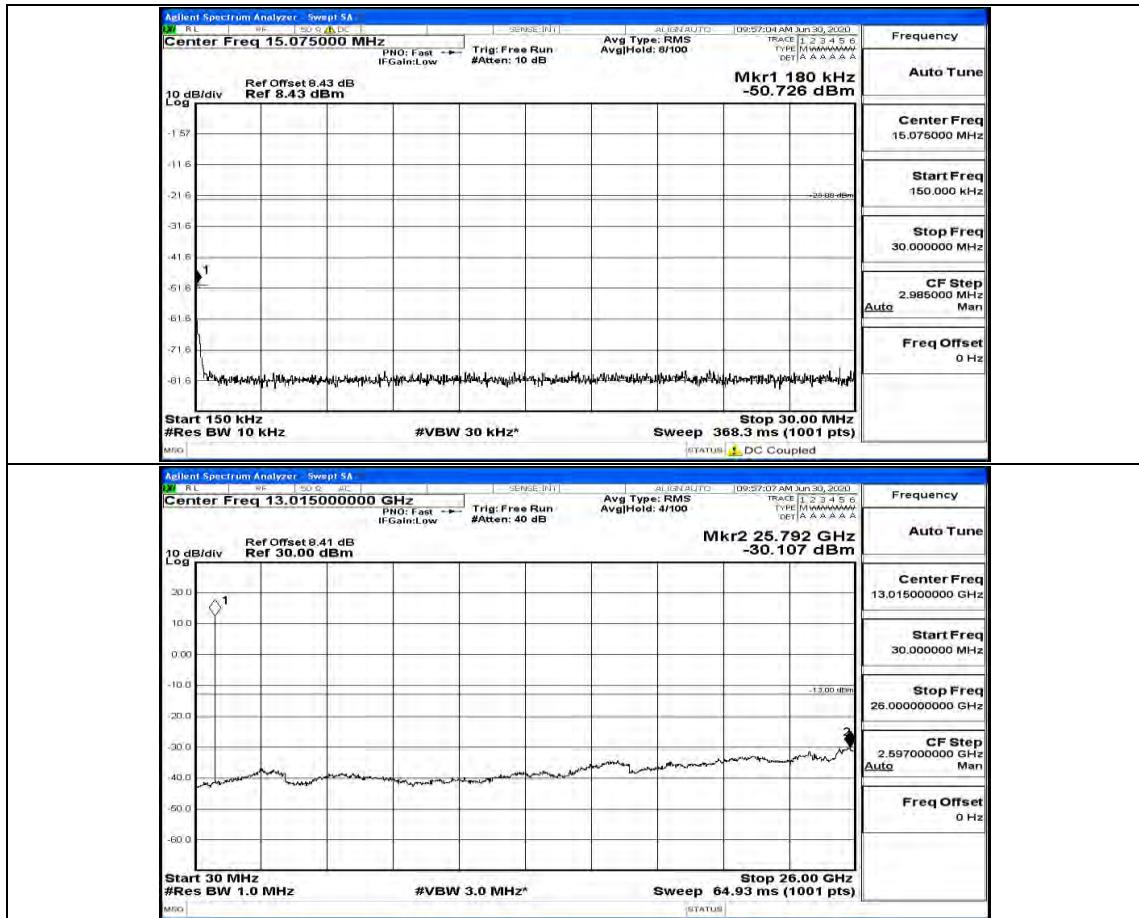


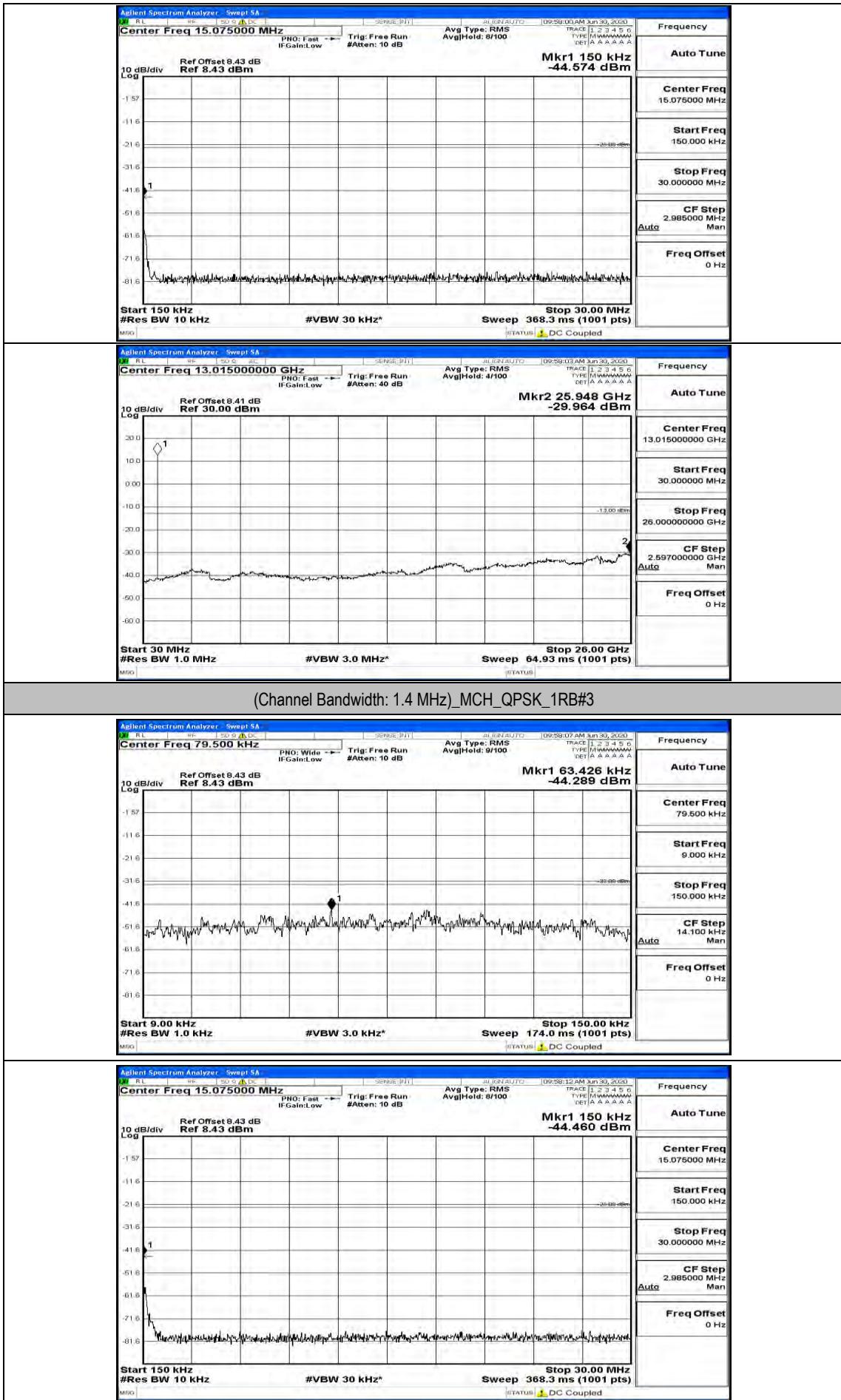
## E.5 Conducted Spurious Emission

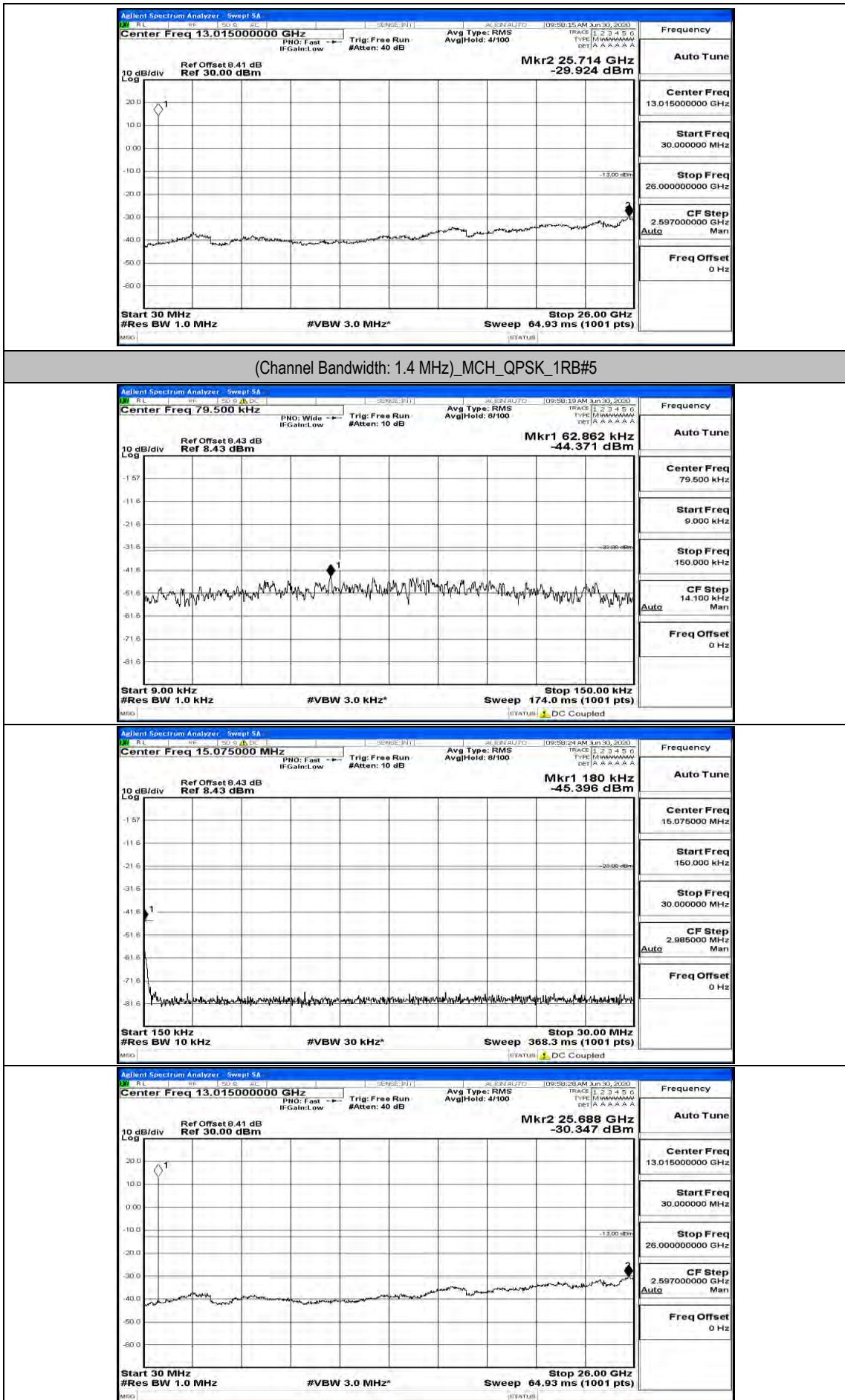
## Channel Bandwidth: 1.4 MHz



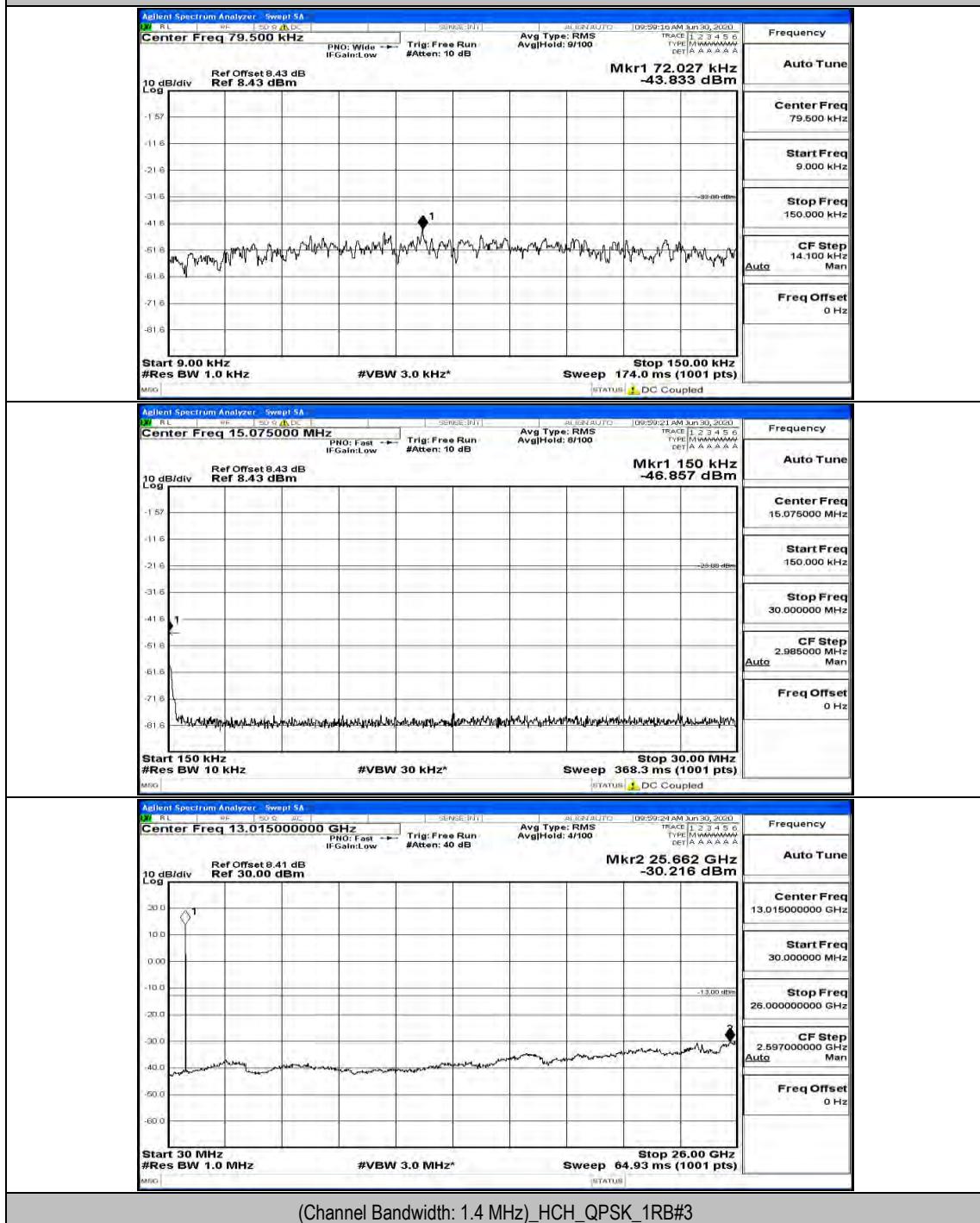




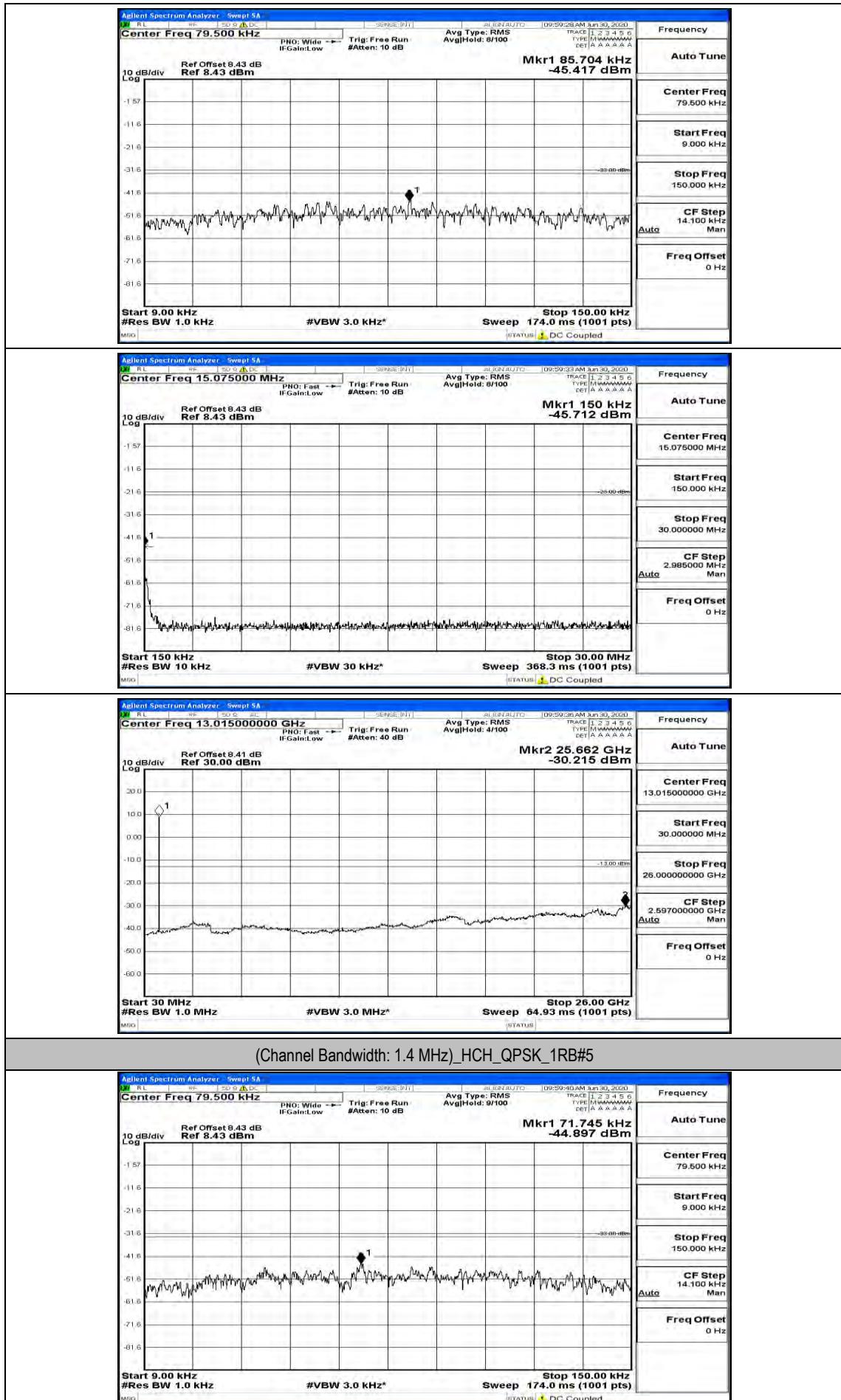


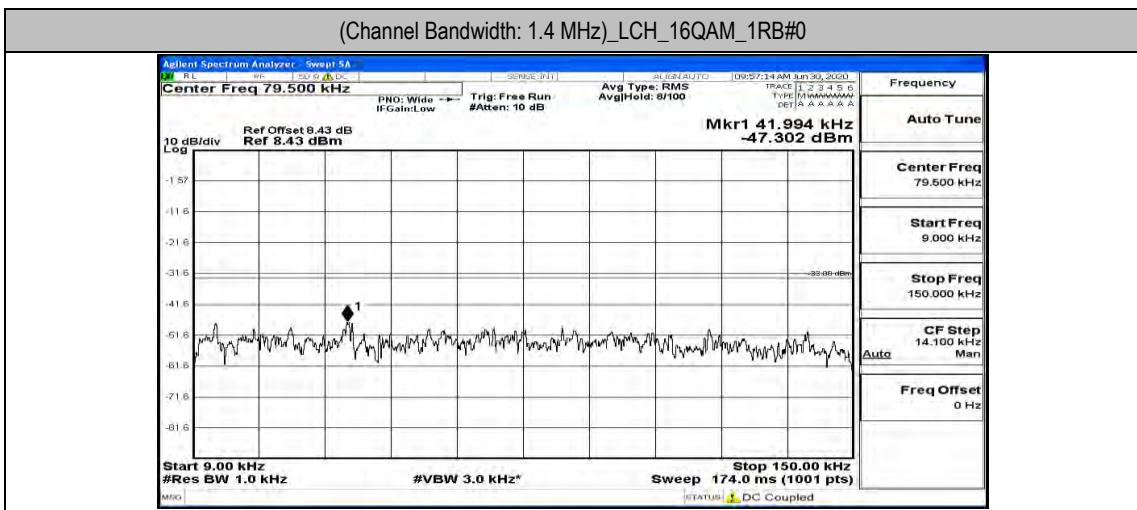
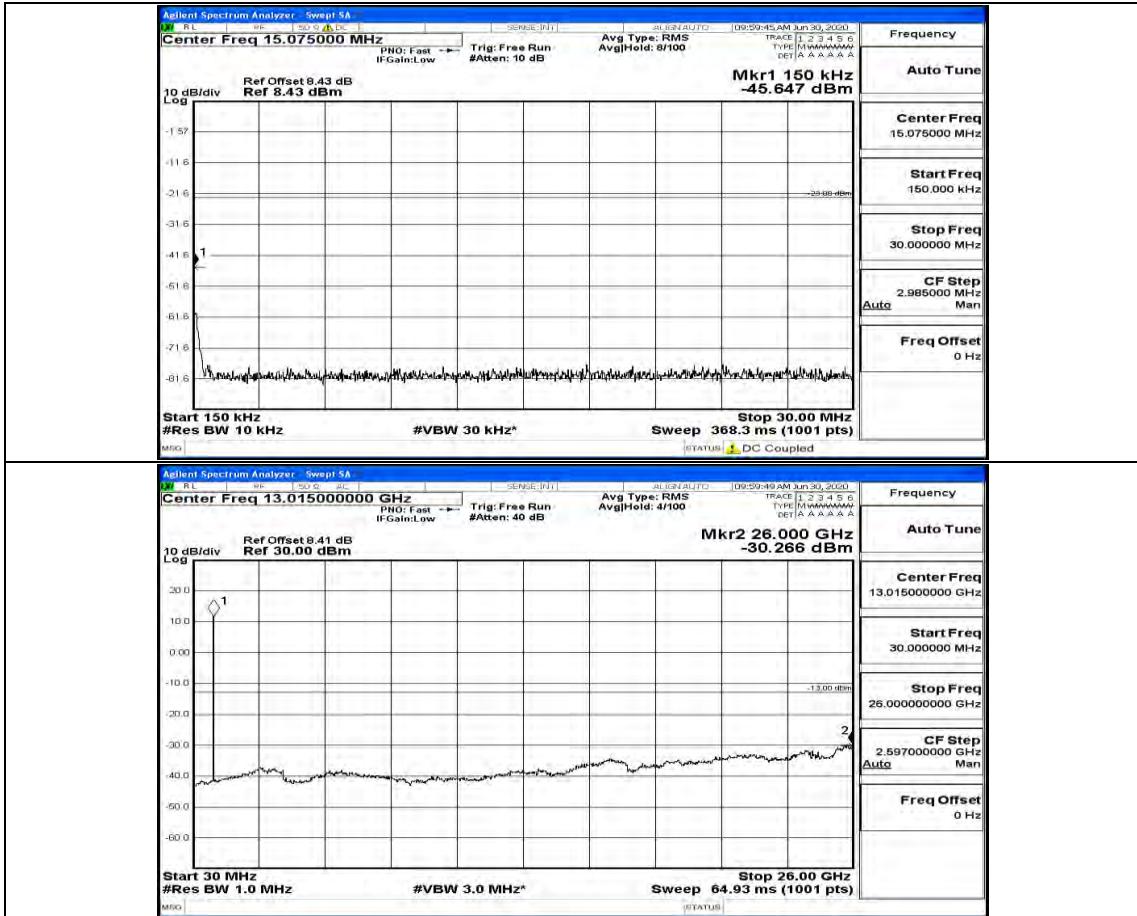


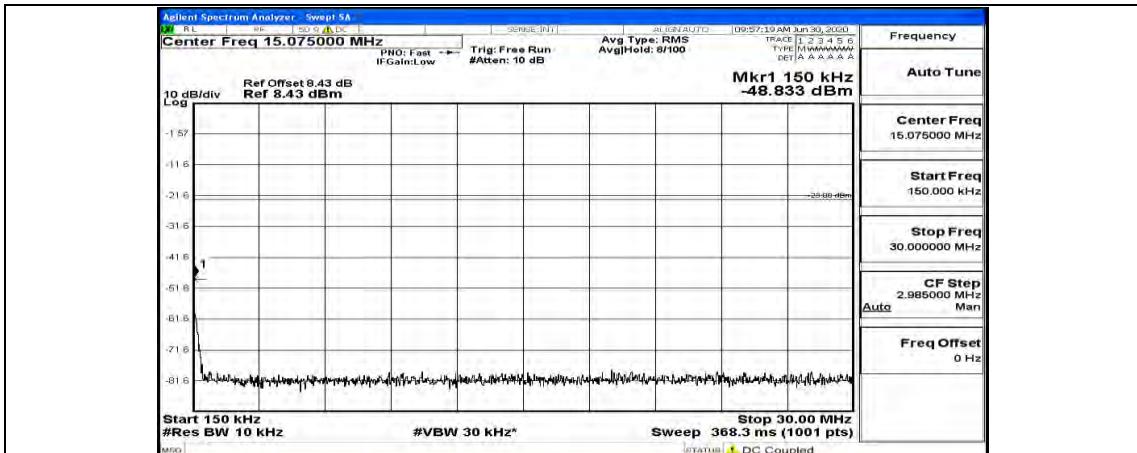
(Channel Bandwidth: 1.4 MHz)\_HCH\_QPSK\_1RB#0



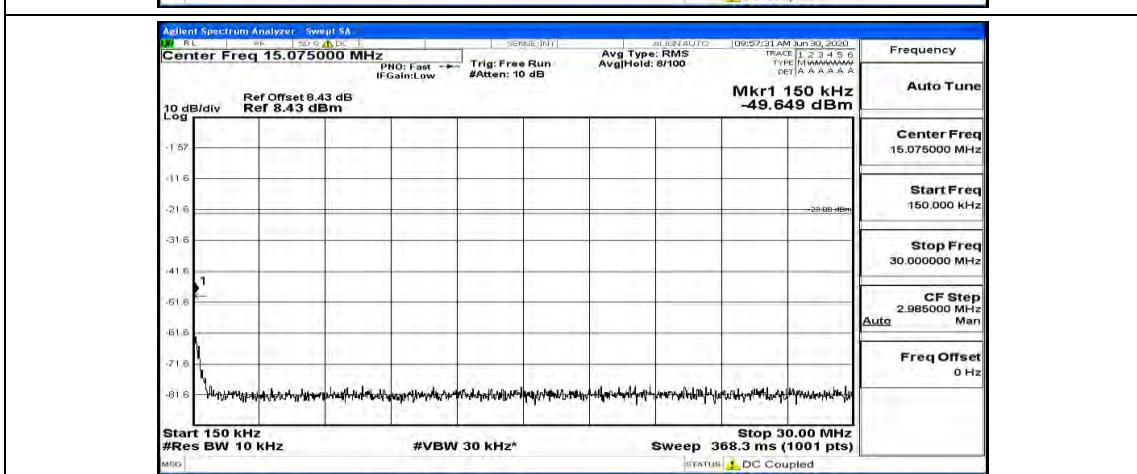
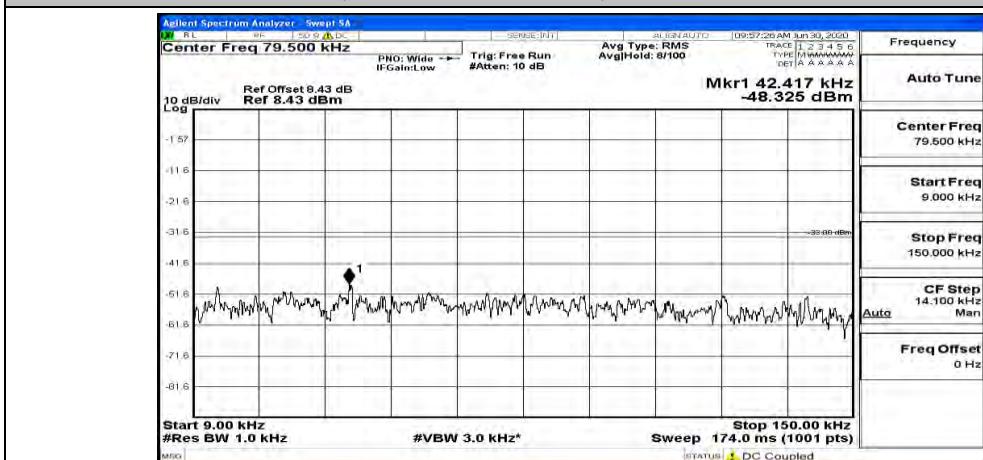
(Channel Bandwidth: 1.4 MHz)\_HCH\_QPSK\_1RB#3

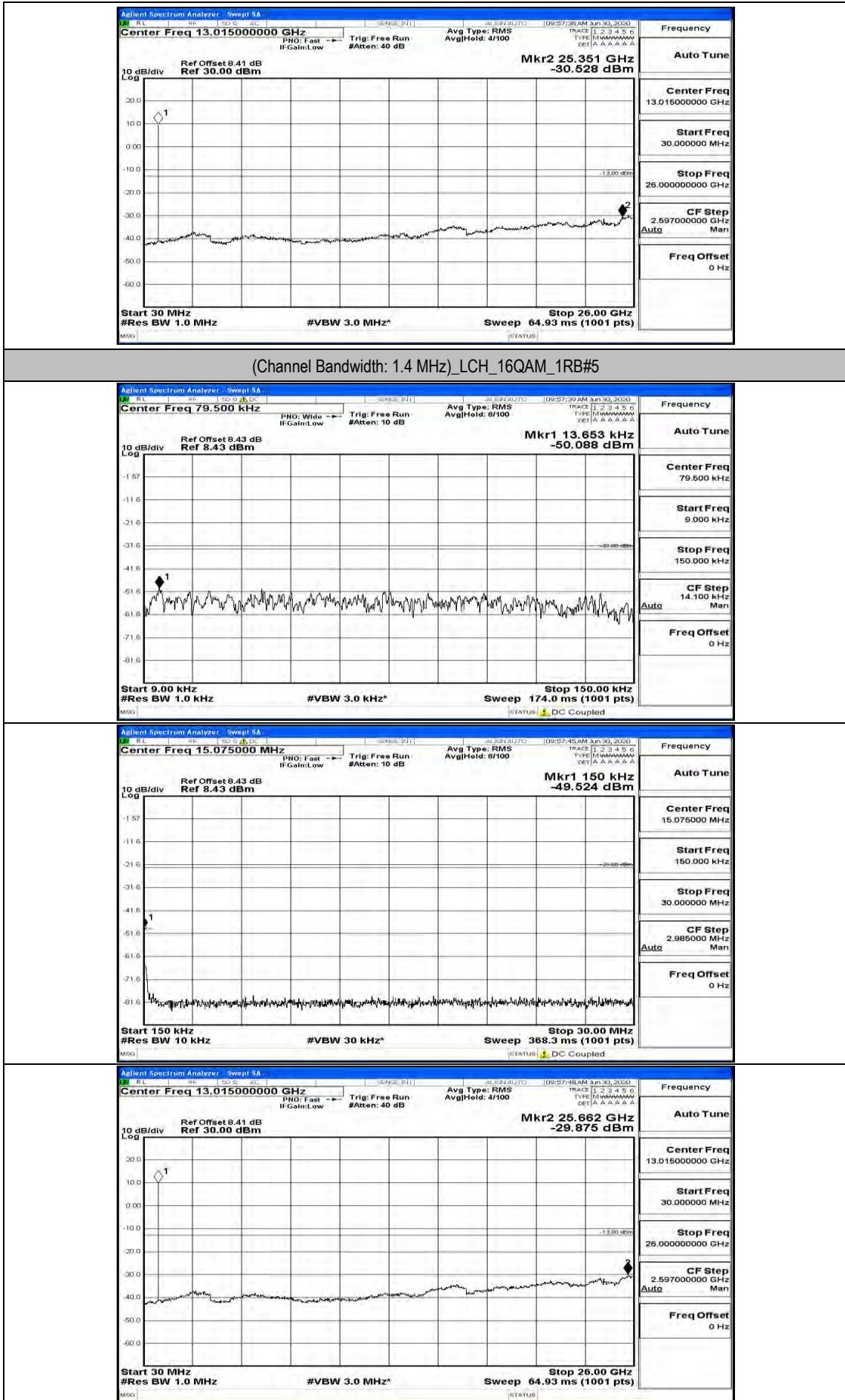




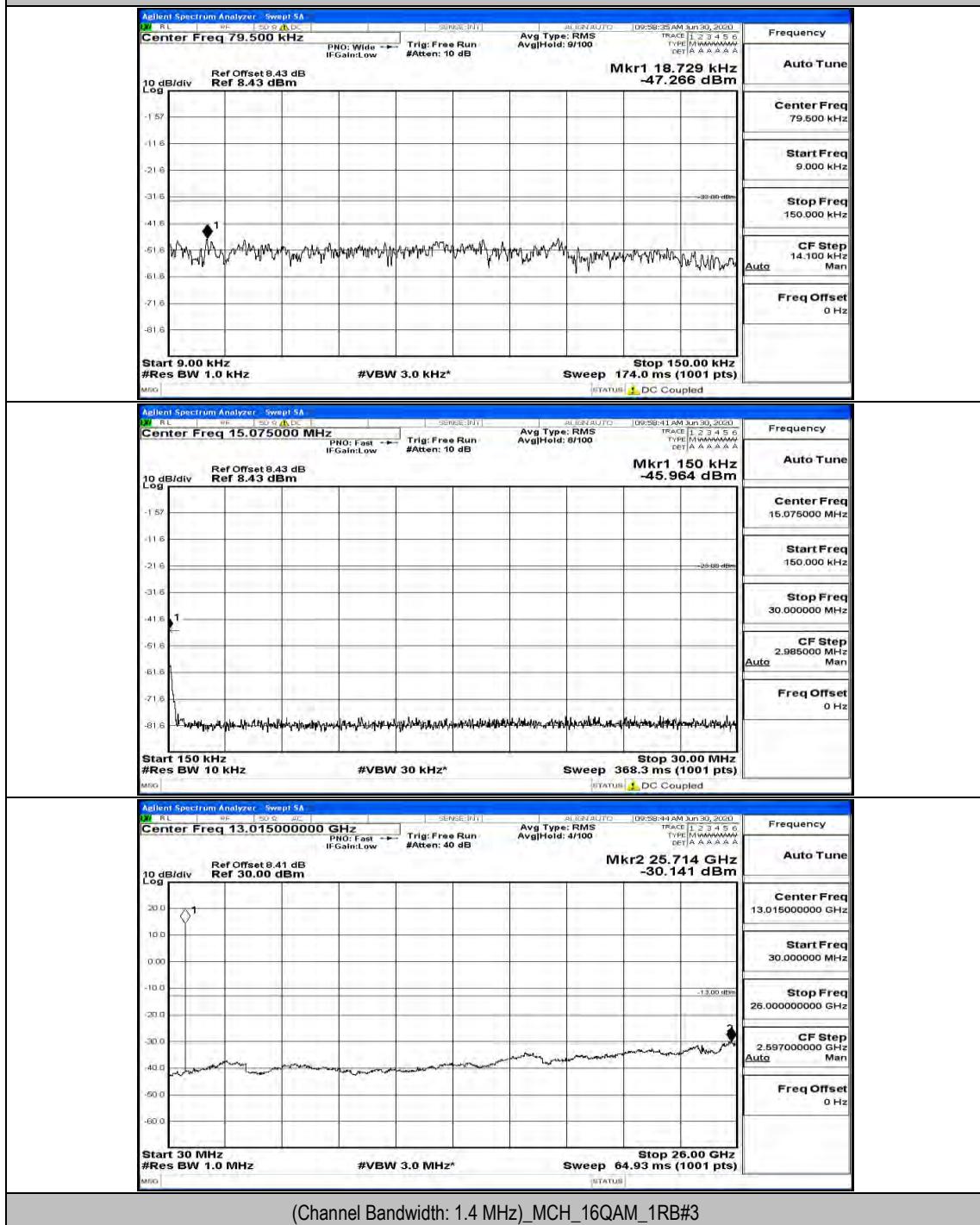


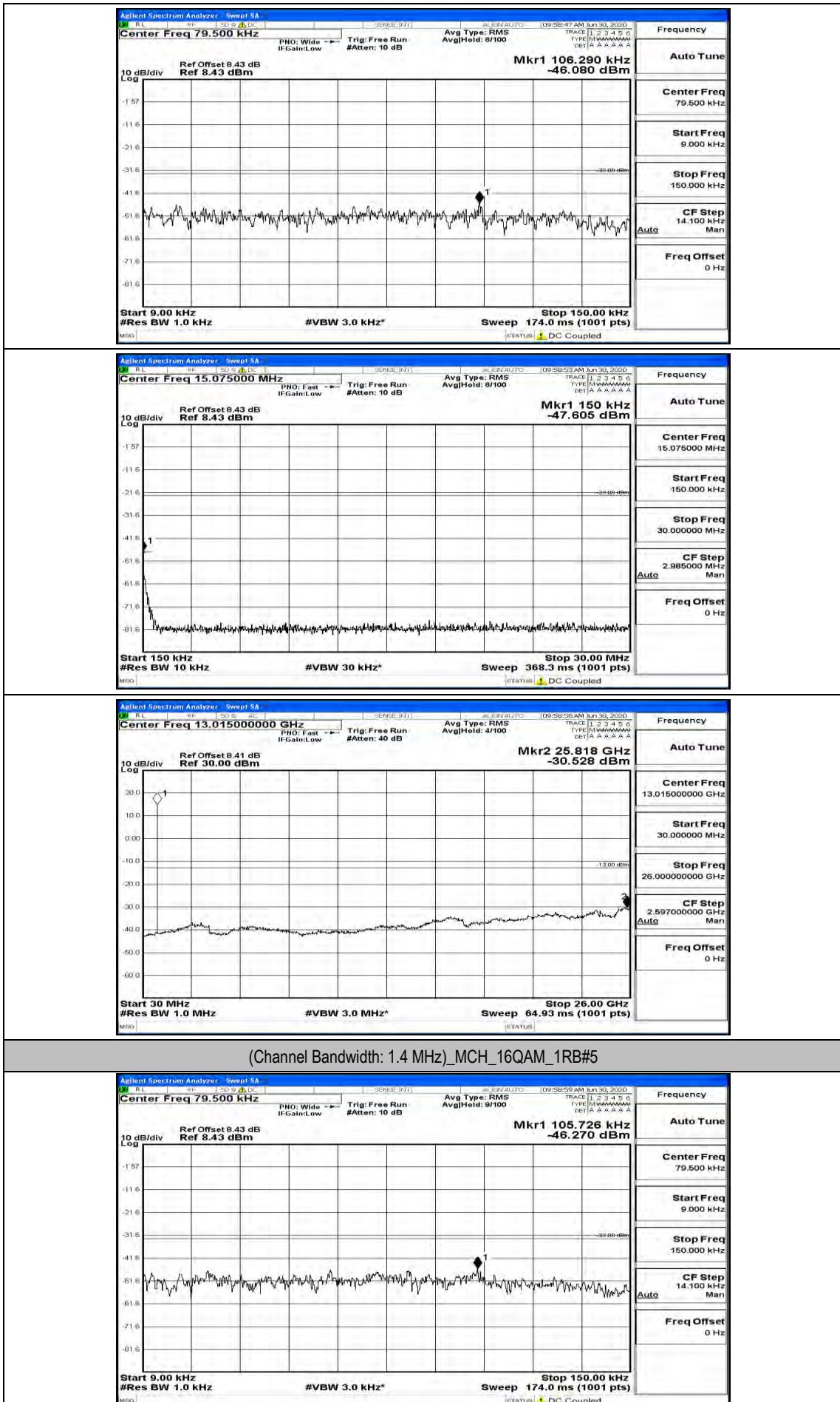
(Channel Bandwidth: 1.4 MHz)\_LCH\_16QAM\_1RB#3

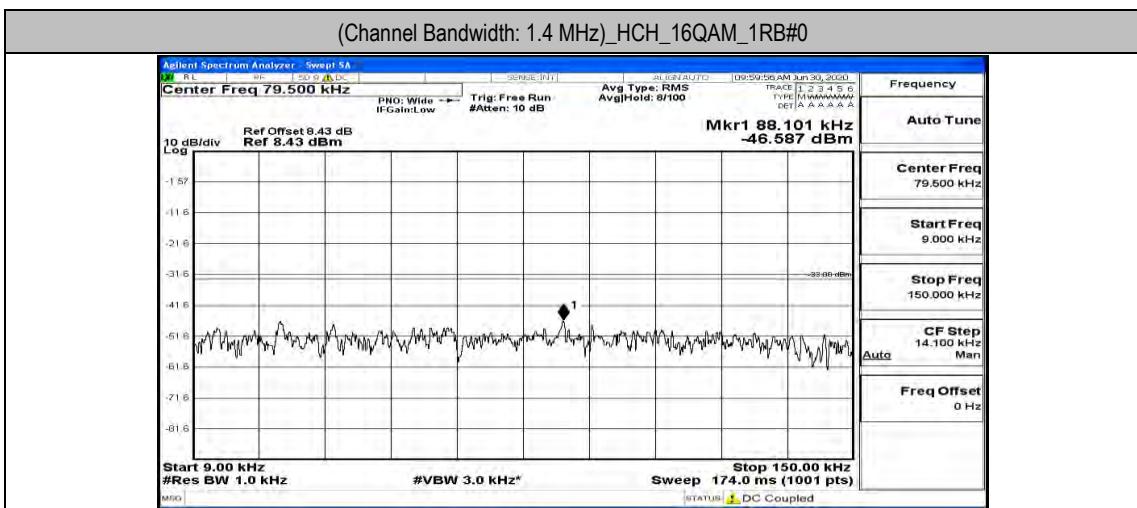
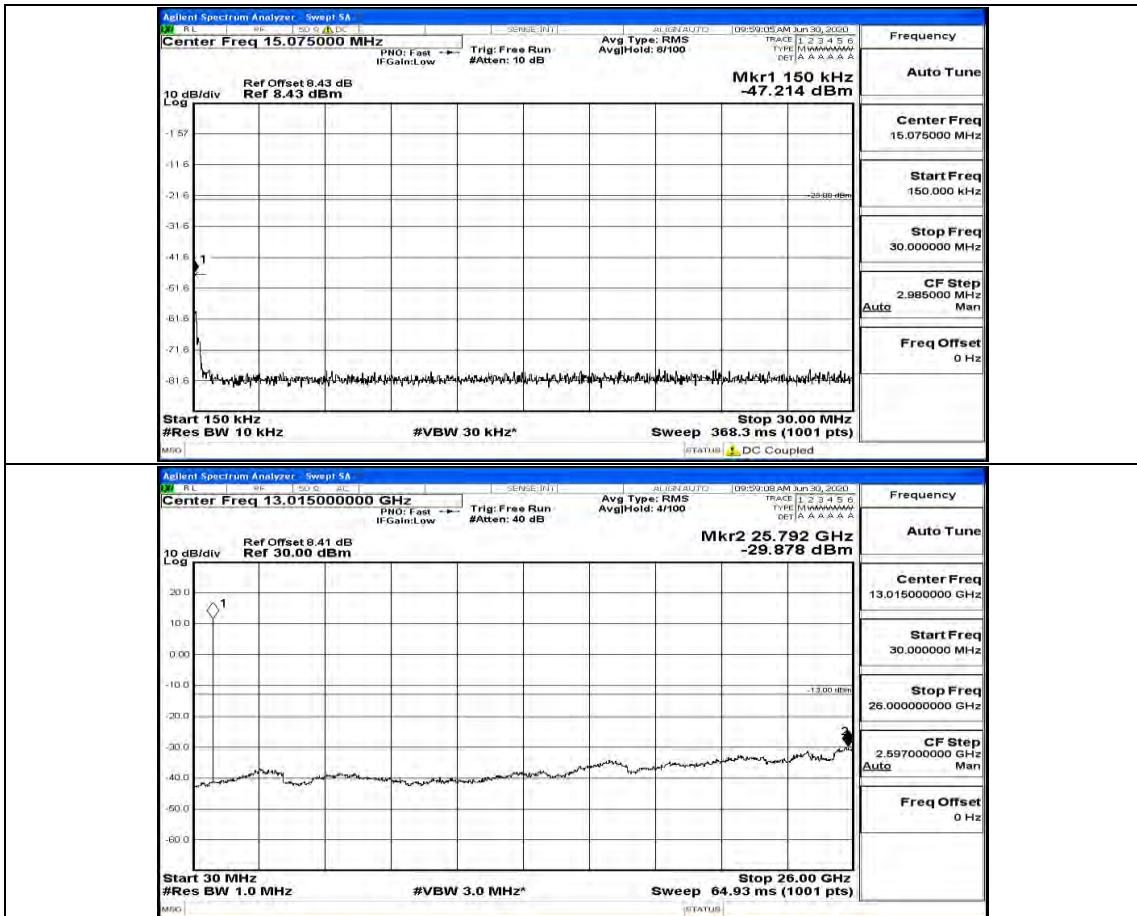


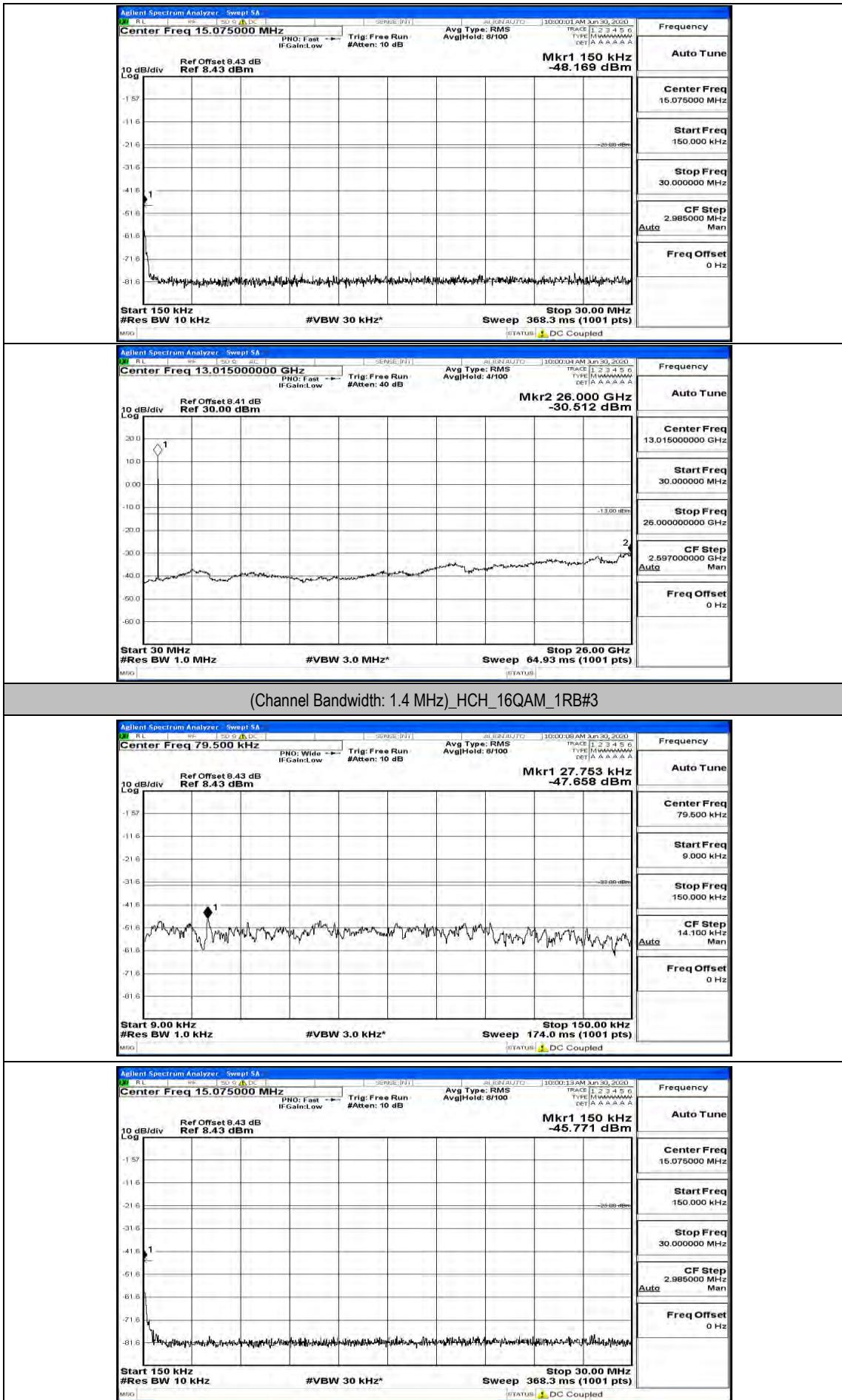


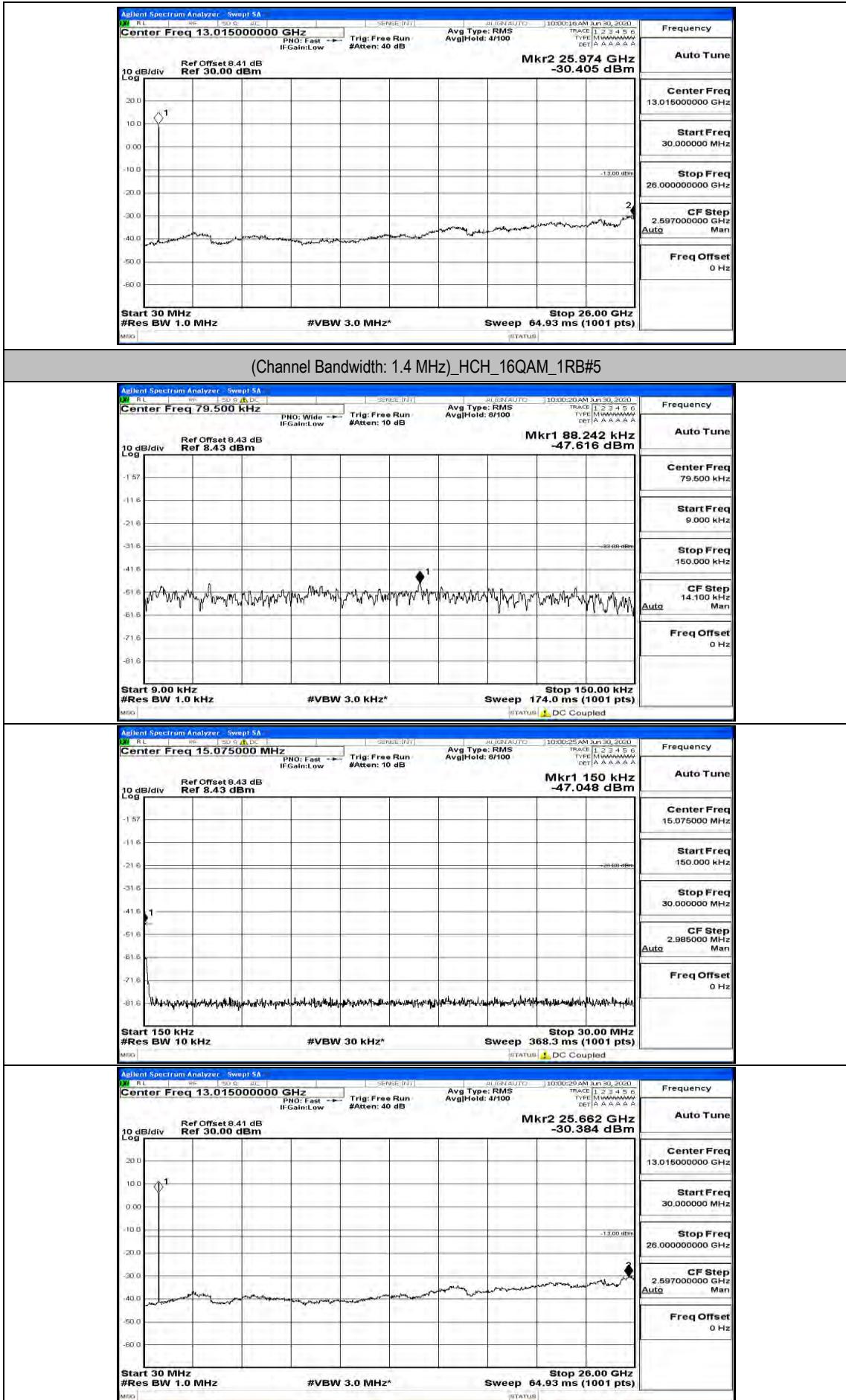
(Channel Bandwidth: 1.4 MHz)\_MCH\_16QAM\_1RB#0





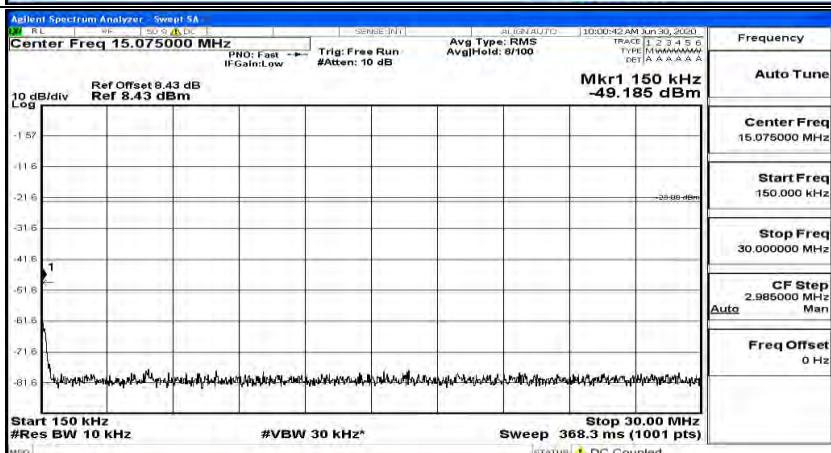
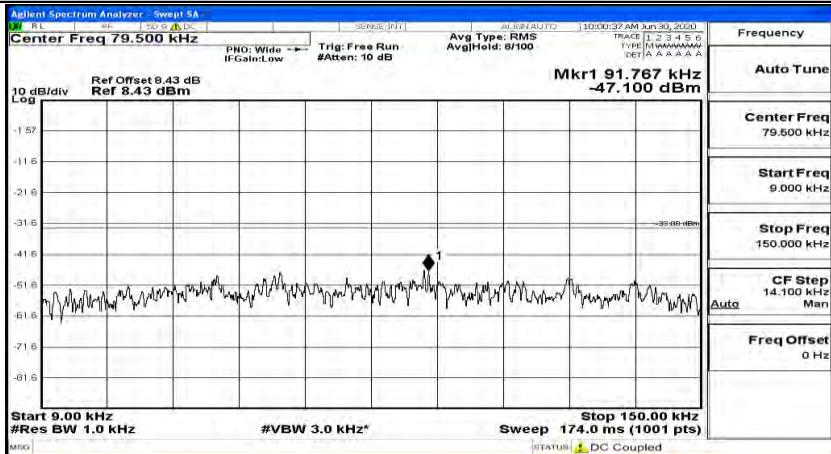




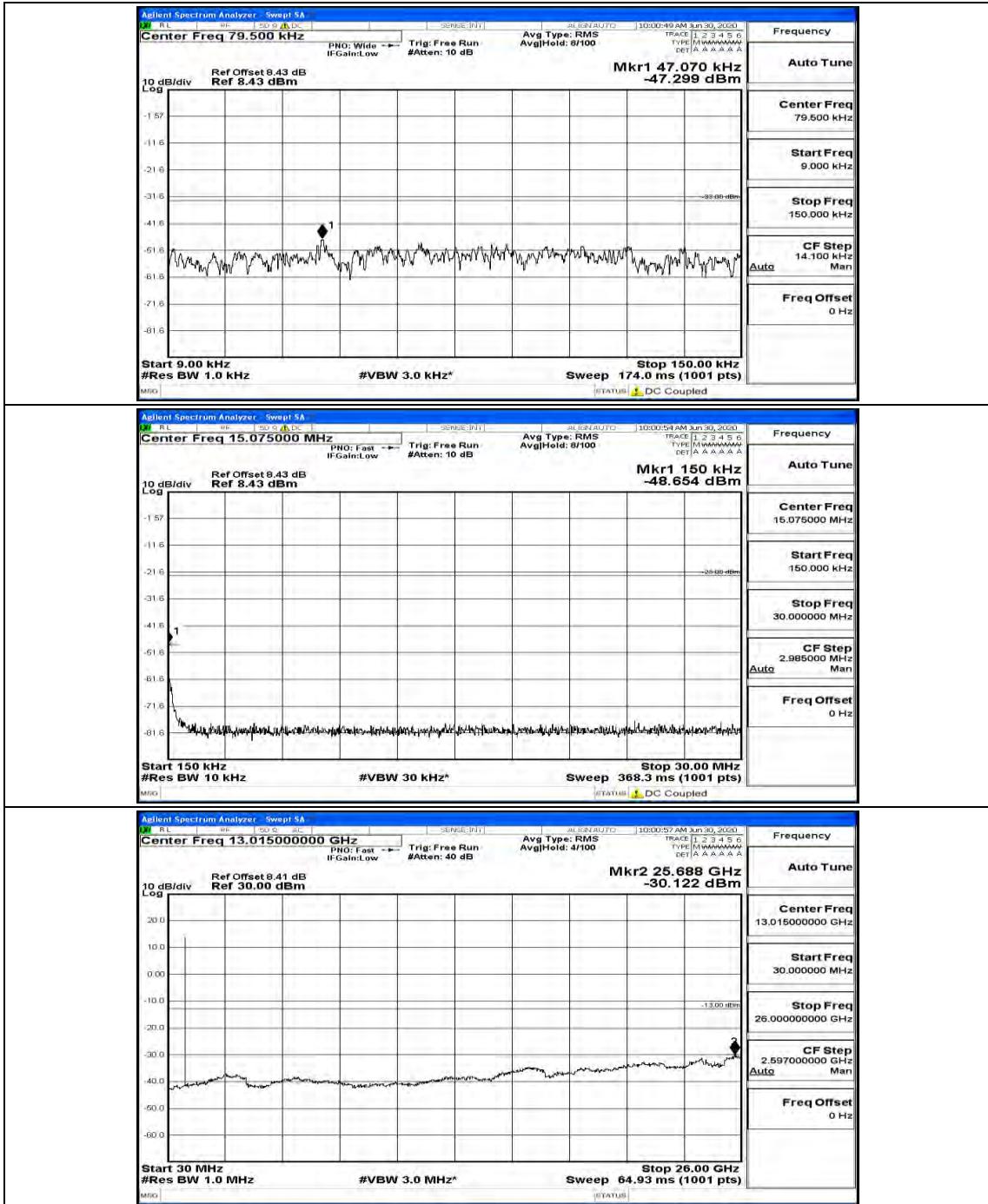


## Channel Bandwidth: 3 MHz

(Channel Bandwidth: 3 MHz)\_LCH\_QPSK\_1RB#0



(Channel Bandwidth: 3 MHz)\_LCH\_QPSK\_1RB#7



(Channel Bandwidth: 3 MHz)\_LCH\_QPSK\_1RB#14

