

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

**Product Name: Tablet**  
**Trade Mark: LAVA & XOLO**  
**Test Model: T101**

### Environmental Conditions

Temperature:	24.6° C
Relative Humidity:	54.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Li Huan
Supervised by:	Li Huan

### D.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	23.66	22.91	PASS
		1	3	23.77	23.10	PASS
		1	5	23.66	22.94	PASS
		3	0	23.74	22.66	PASS
		3	2	23.72	22.68	PASS
		3	3	23.70	22.68	PASS
		6	0	22.68	21.65	PASS
	MCH	1	0	22.87	22.09	PASS
		1	3	22.93	22.20	PASS
		1	5	22.79	22.00	PASS
		3	0	22.88	21.95	PASS
		3	2	22.90	21.96	PASS
		3	3	22.90	21.94	PASS
		6	0	21.85	21.01	PASS
	HCH	1	0	22.94	22.05	PASS
		1	3	23.06	22.23	PASS
		1	5	23.04	22.11	PASS
		3	0	23.01	22.09	PASS
		3	2	23.07	22.11	PASS
		3	3	23.04	22.09	PASS
		6	0	22.08	21.00	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	23.63	22.84	PASS
		1	7	23.93	23.06	PASS
		1	14	23.60	22.78	PASS
		8	0	22.70	21.77	PASS
		8	4	22.74	21.84	PASS
		8	7	22.71	21.75	PASS
		15	0	22.66	21.66	PASS
	MCH	1	0	22.95	22.31	PASS
		1	7	23.09	22.37	PASS
		1	14	22.76	22.08	PASS
		8	0	21.89	20.93	PASS
		8	4	21.90	20.92	PASS
		8	7	21.84	20.88	PASS
		15	0	21.84	20.92	PASS
	HCH	1	0	22.93	22.13	PASS
		1	7	23.19	22.43	PASS
		1	14	23.06	22.20	PASS
		8	0	21.94	20.92	PASS
		8	4	22.02	21.02	PASS
		8	7	22.04	20.97	PASS
		15	0	22.01	21.02	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	23.64	22.47	PASS
		1	12	23.78	22.76	PASS
		1	24	23.31	22.62	PASS
		12	0	22.62	21.68	PASS
		12	6	22.58	21.76	PASS
		12	13	22.56	21.68	PASS
		25	0	22.61	21.68	PASS
	MCH	1	0	22.97	22.23	PASS
		1	12	22.99	22.09	PASS
		1	24	22.60	21.77	PASS
		12	0	21.79	21.08	PASS
		12	6	21.84	20.98	PASS
		12	13	21.81	20.92	PASS
		25	0	21.88	20.97	PASS
	HCH	1	0	22.80	21.78	PASS
		1	12	23.25	22.36	PASS
		1	24	22.83	22.03	PASS
		12	0	21.67	20.88	PASS
		12	6	21.89	21.00	PASS
		12	13	21.91	20.99	PASS
		25	0	21.83	21.00	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	23.35	22.36	PASS
		1	24	23.37	22.37	PASS
		1	49	22.93	22.24	PASS
		25	0	22.52	21.57	PASS
		25	12	22.47	21.50	PASS
		25	25	22.21	21.39	PASS
		50	0	22.40	21.38	PASS
	MCH	1	0	23.24	22.45	PASS
		1	24	22.94	22.06	PASS
		1	49	22.26	21.88	PASS
		25	0	21.89	21.09	PASS
		25	12	21.78	20.99	PASS
		25	25	21.71	20.90	PASS
		50	0	21.88	21.03	PASS
	HCH	1	0	22.78	21.90	PASS
		1	24	22.93	22.18	PASS
		1	49	22.67	22.00	PASS
		25	0	21.81	20.91	PASS
		25	12	21.74	20.89	PASS
		25	25	21.83	21.01	PASS
		50	0	21.88	20.97	PASS

**D.2 Peak-to-Average Ratio**

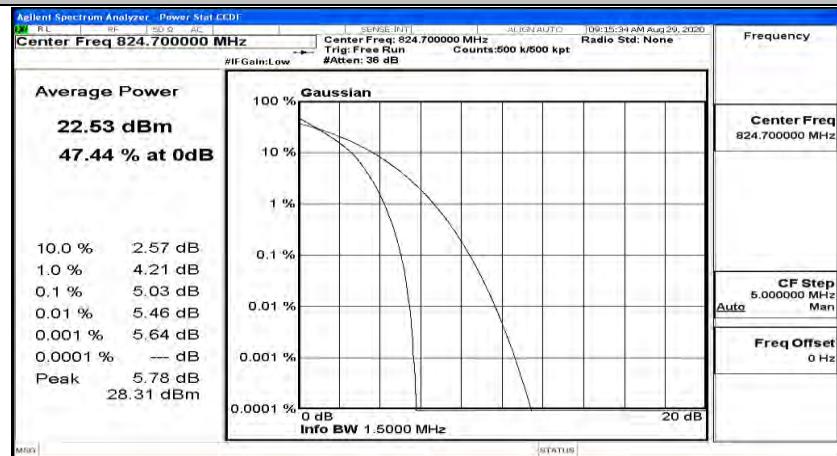
Peak-to Average Ratio Test Result (Channel Bandwidth: 1.4 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.03	<13	PASS
	MCH	5.2	<13	PASS
	HCH	4.72	<13	PASS
16QAM	LCH	5.87	<13	PASS
	MCH	6.14	<13	PASS
	HCH	5.62	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 3 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.02	<13	PASS
	MCH	5.41	<13	PASS
	HCH	4.99	<13	PASS
16QAM	LCH	5.95	<13	PASS
	MCH	6.14	<13	PASS
	HCH	5.76	<13	PASS

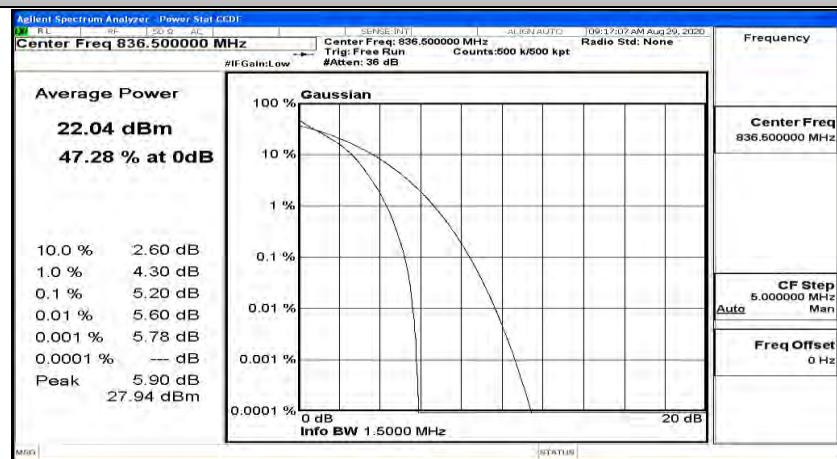
Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.02	<13	PASS
	MCH	5.4	<13	PASS
	HCH	5.22	<13	PASS
16QAM	LCH	5.75	<13	PASS
	MCH	6.22	<13	PASS
	HCH	5.93	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.28	<13	PASS
	MCH	5.53	<13	PASS
	HCH	5.39	<13	PASS
16QAM	LCH	6.04	<13	PASS
	MCH	6.22	<13	PASS
	HCH	6.14	<13	PASS

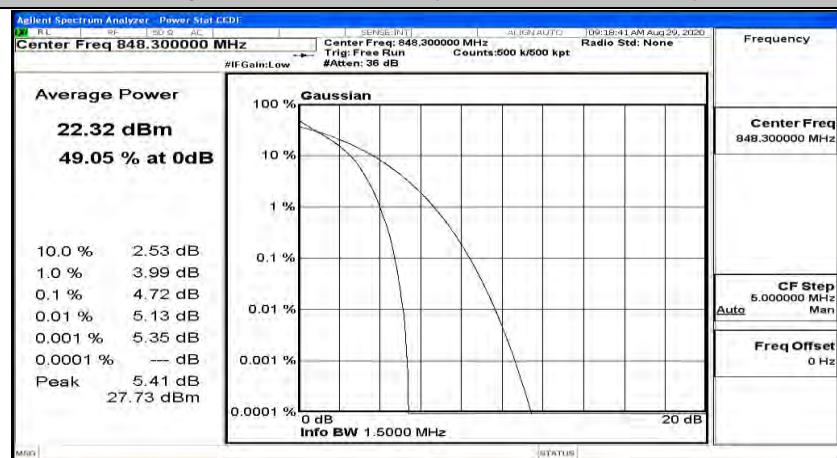
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_LCH\_QPSK



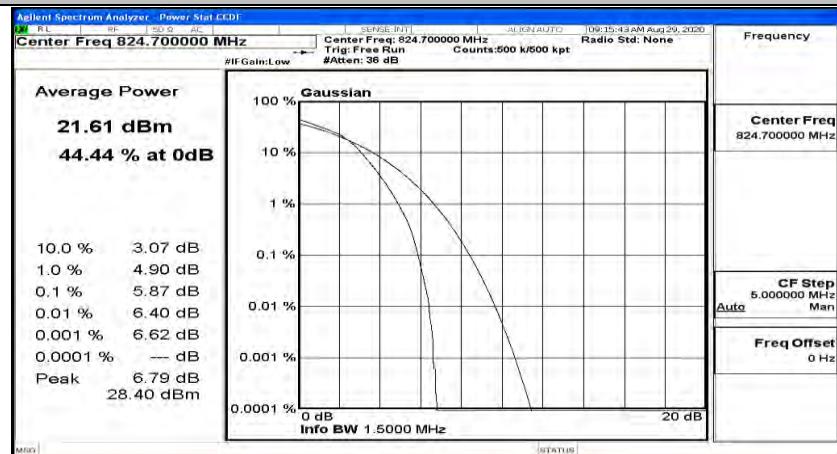
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_MCH\_QPSK



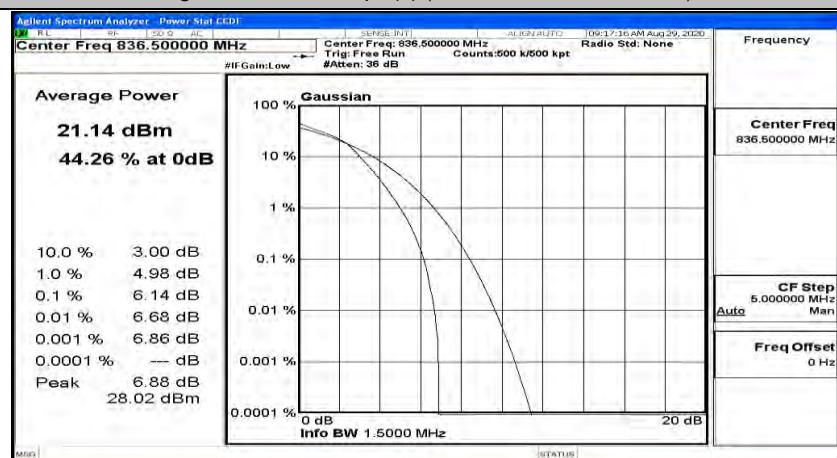
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_HCH\_QPSK



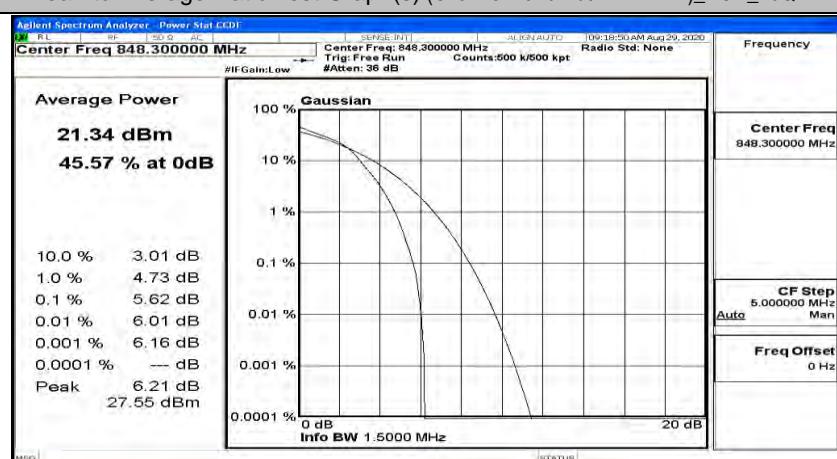
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_LCH\_16QAM



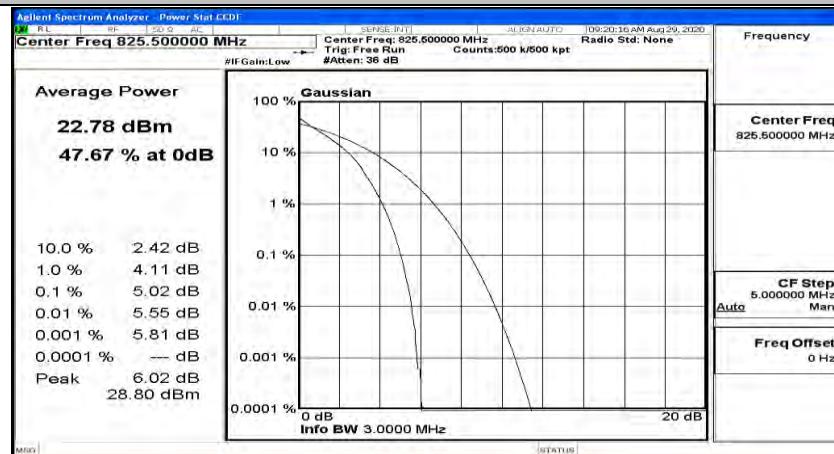
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_MCH\_16QAM



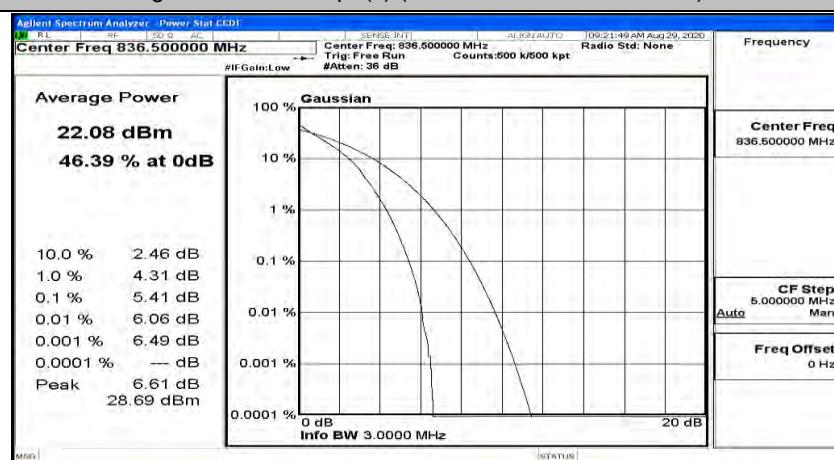
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_HCH\_16QAM



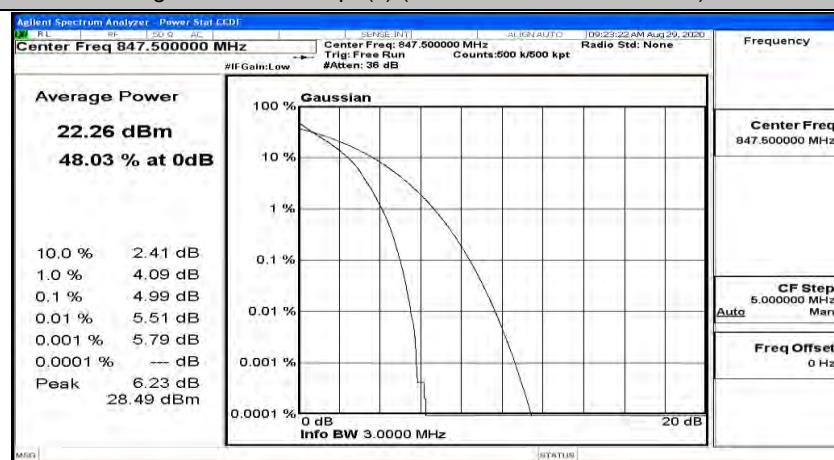
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)\_LCH\_QPSK



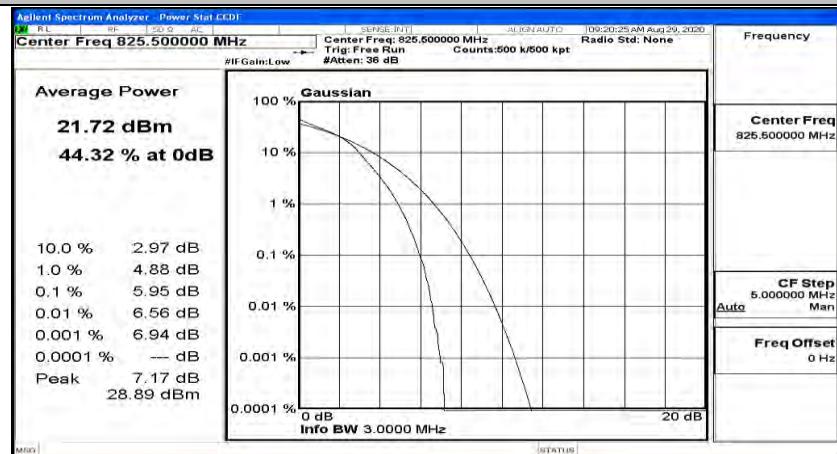
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)\_MCH\_QPSK



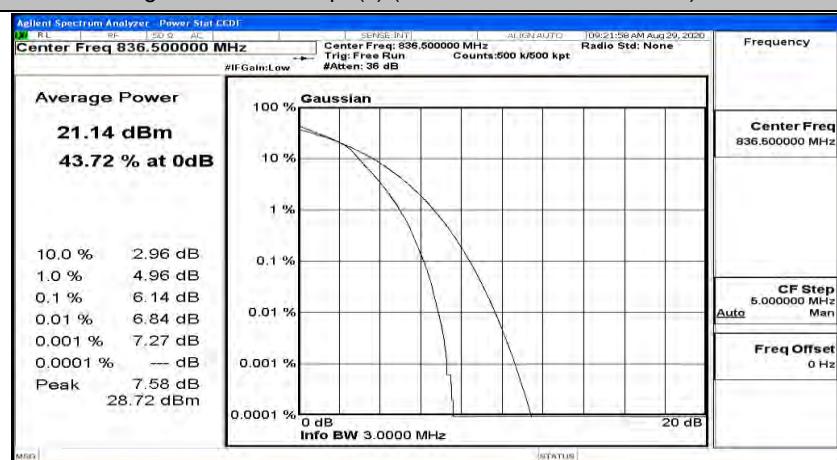
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)\_HCH\_QPSK



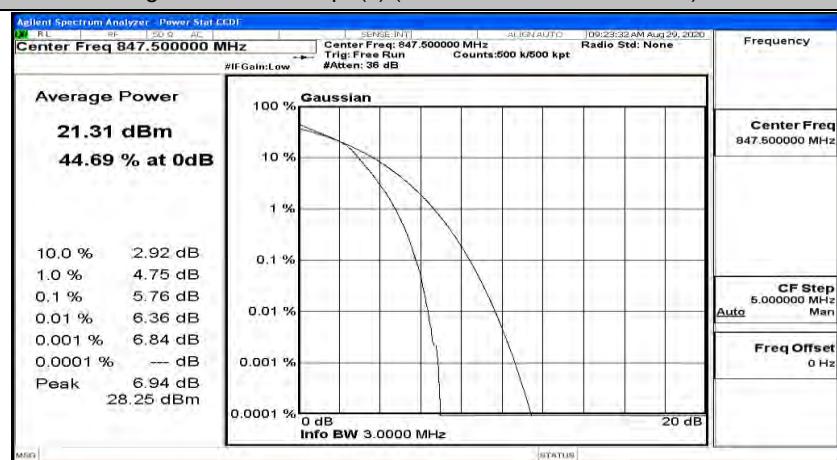
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)\_LCH\_16QAM



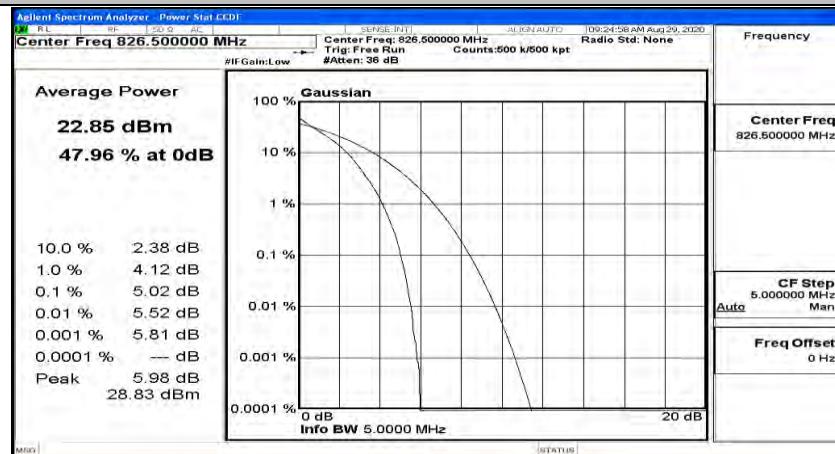
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)\_MCH\_16QAM



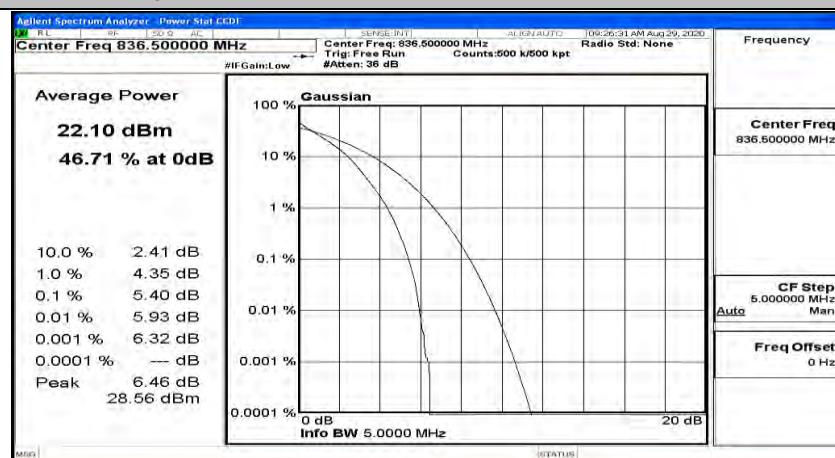
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)\_HCH\_16QAM



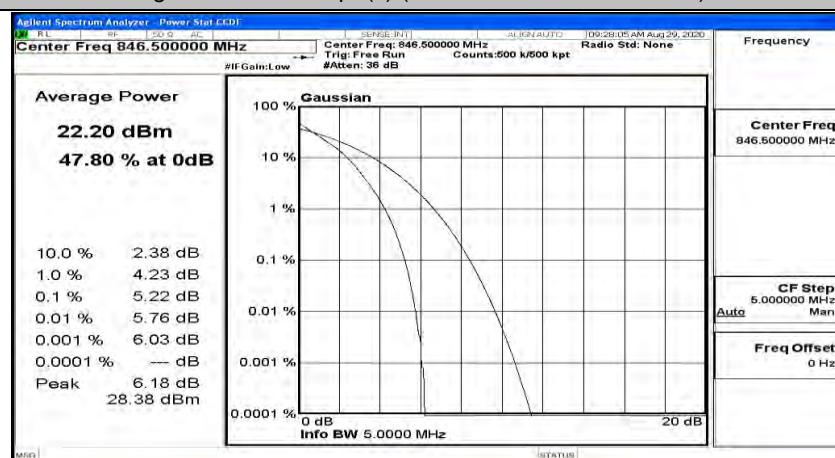
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)\_LCH\_QPSK



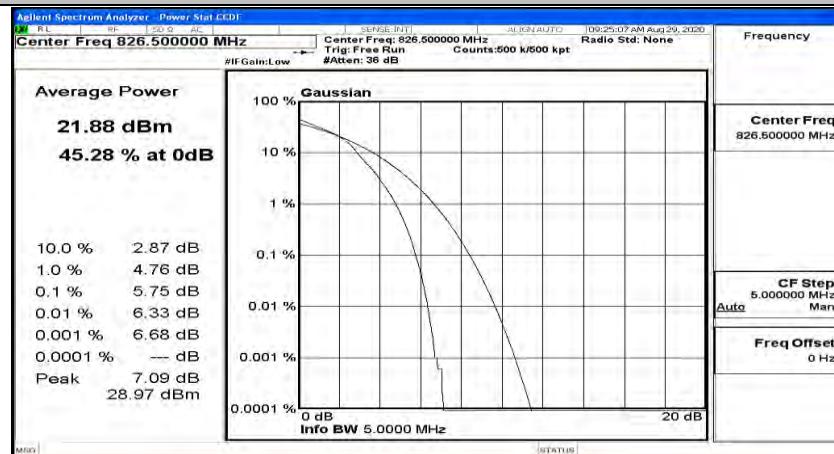
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)\_MCH\_QPSK



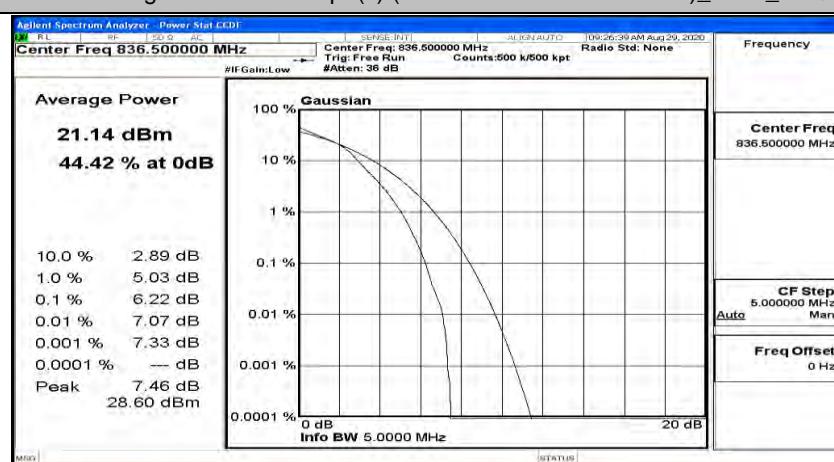
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)\_HCH\_QPSK



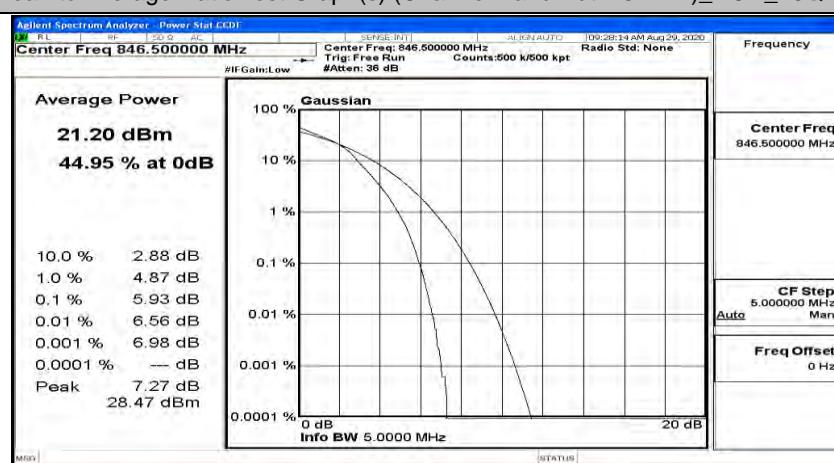
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)\_LCH\_16QAM



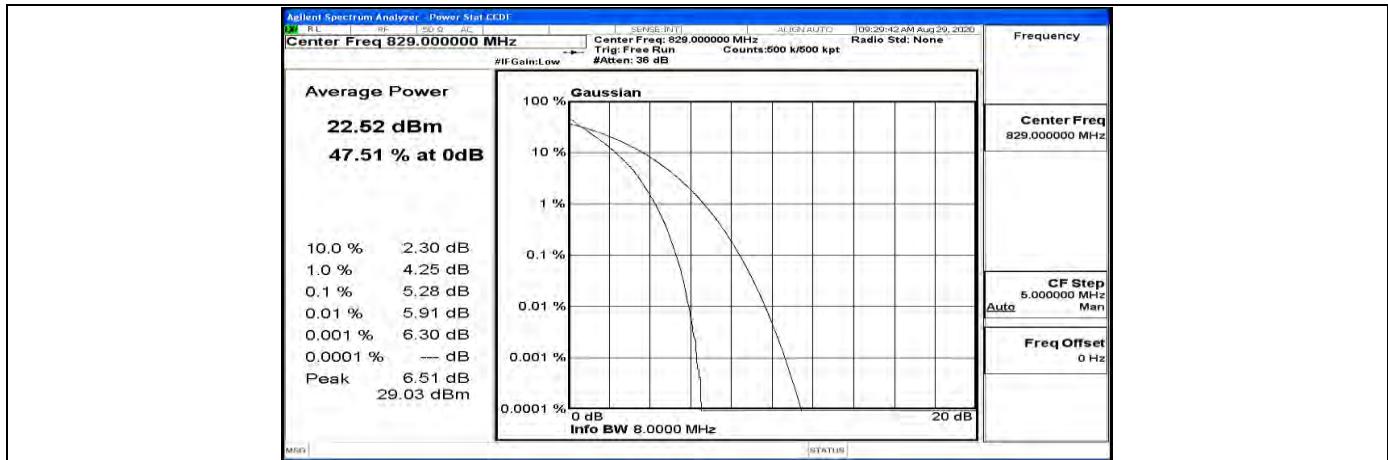
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)\_MCH\_16QAM



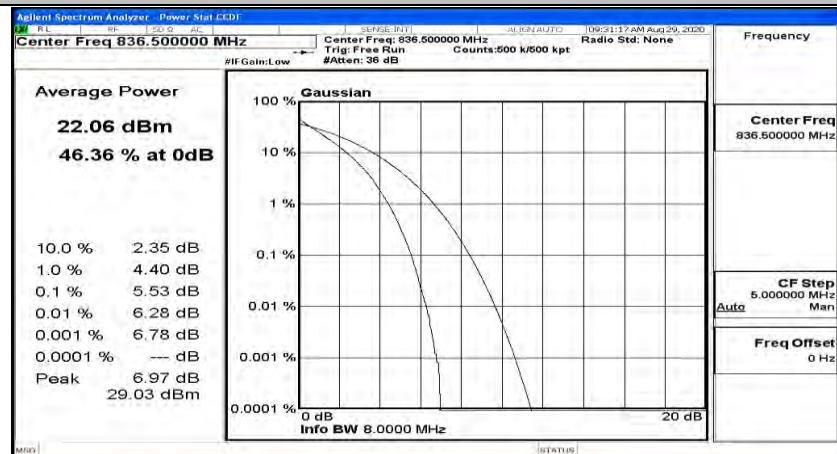
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)\_HCH\_16QAM



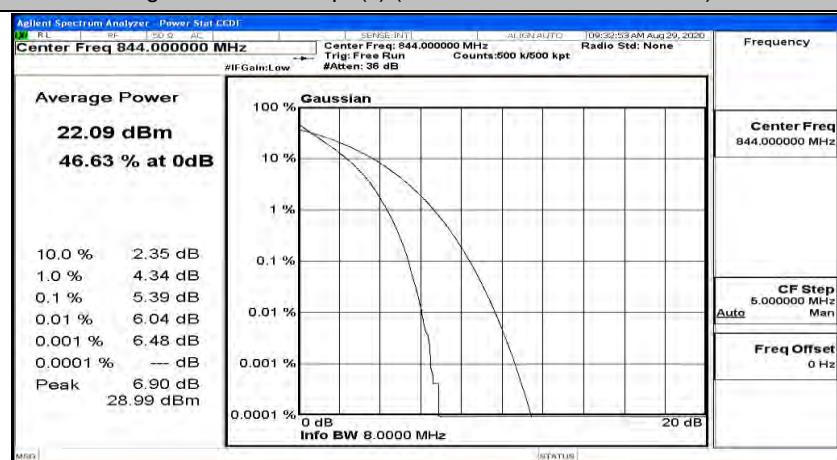
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)\_LCH\_QPSK



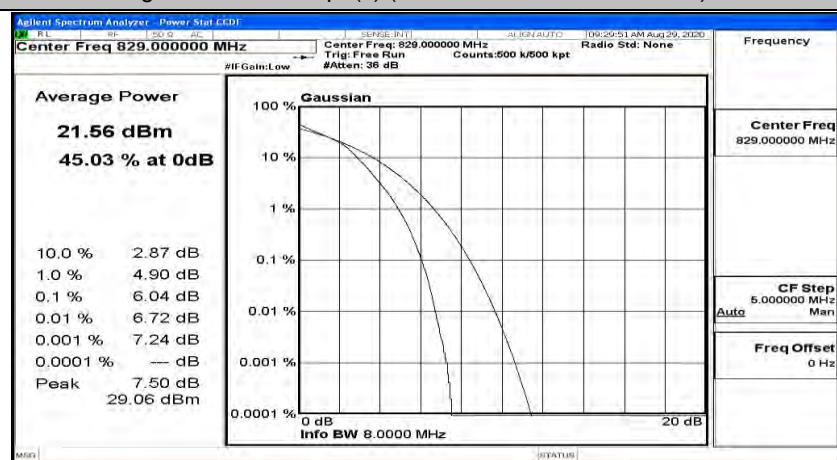
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)\_MCH\_QPSK



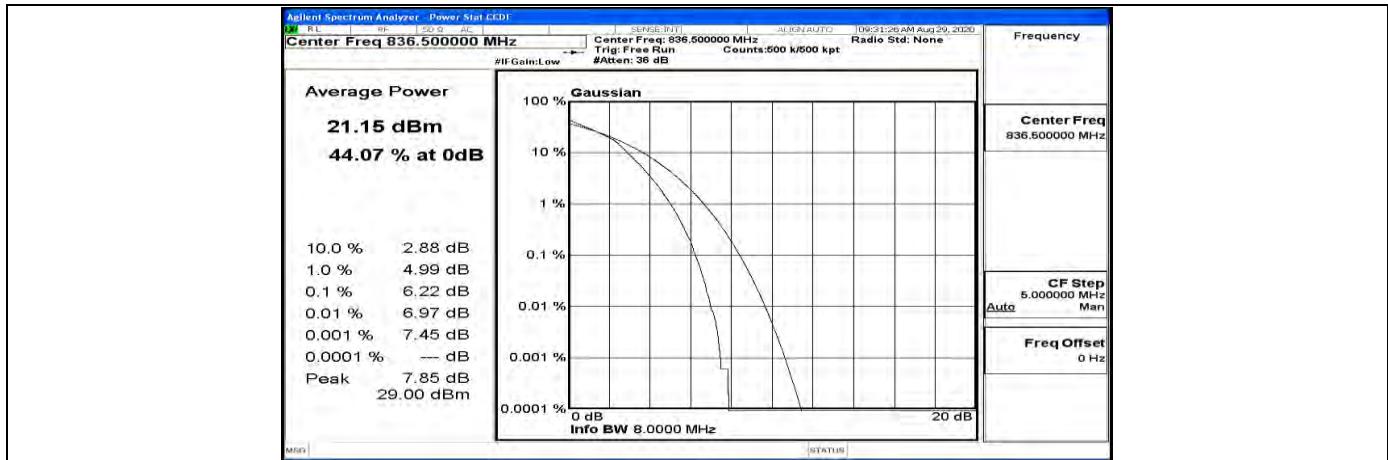
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)\_HCH\_QPSK

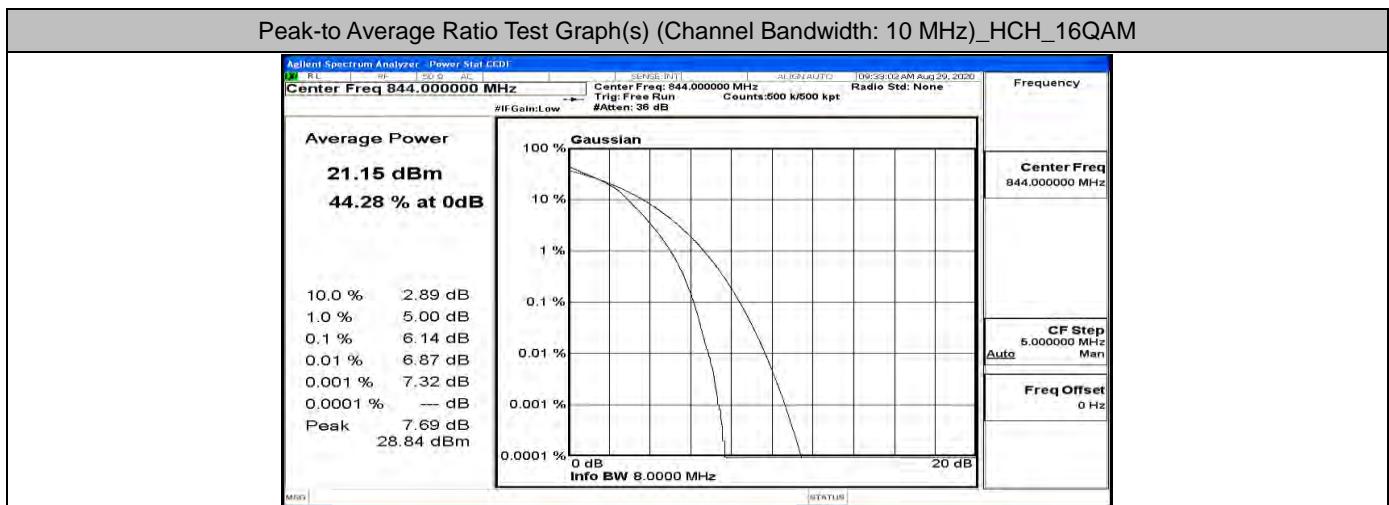


## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)\_LCH\_16QAM



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





**D.3 26dB Bandwidth and Occupied Bandwidth**

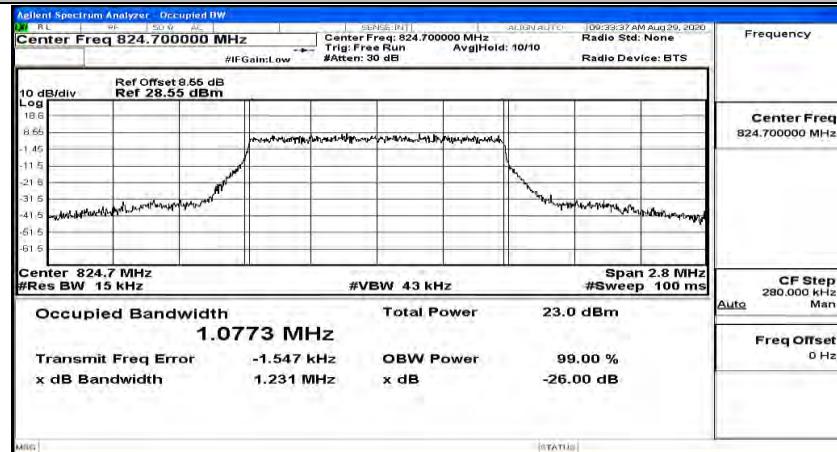
EBW & OBW Test Result (Channel Bandwidth: 1.4 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	1.0773	1.231	PASS
	MCH	1.0776	1.236	PASS
	HCH	1.0787	1.224	PASS
16QAM	LCH	1.0766	1.235	PASS
	MCH	1.0775	1.235	PASS
	HCH	1.0794	1.212	PASS

EBW & OBW Test Result (Channel Bandwidth: 3 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	2.6769	2.828	PASS
	MCH	2.6781	2.836	PASS
	HCH	2.6813	2.823	PASS
16QAM	LCH	2.6807	2.841	PASS
	MCH	2.6815	2.838	PASS
	HCH	2.6784	2.829	PASS

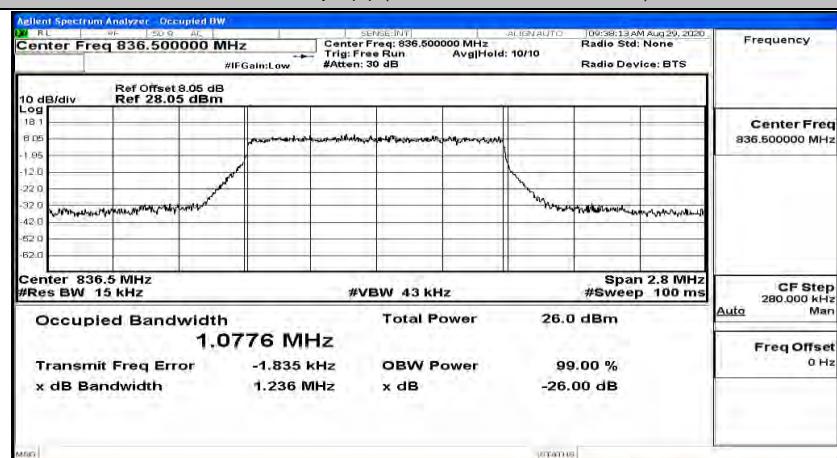
EBW & OBW Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	4.4836	4.885	PASS
	MCH	4.4743	4.846	PASS
	HCH	4.4923	4.873	PASS
16QAM	LCH	4.4789	4.862	PASS
	MCH	4.4838	4.793	PASS
	HCH	4.4759	4.936	PASS

EBW & OBW Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	8.9387	9.447	PASS
	MCH	8.9479	9.576	PASS
	HCH	8.9524	9.580	PASS
16QAM	LCH	8.9407	9.476	PASS
	MCH	8.9630	9.463	PASS
	HCH	8.9421	9.506	PASS

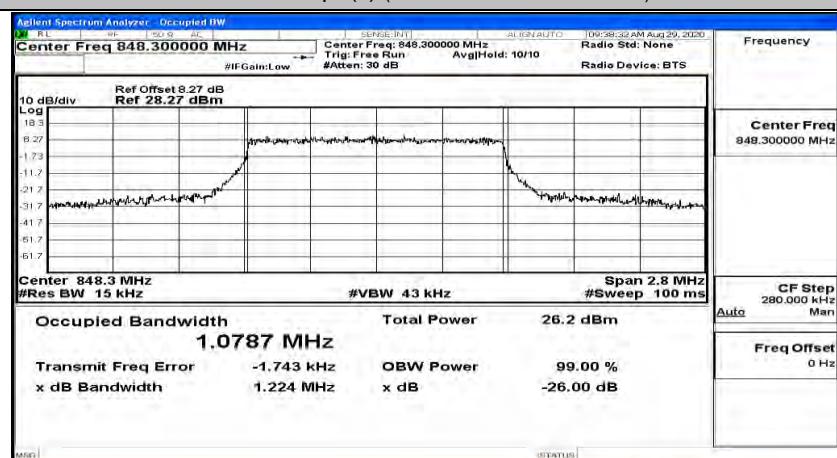
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_LCH\_QPSK



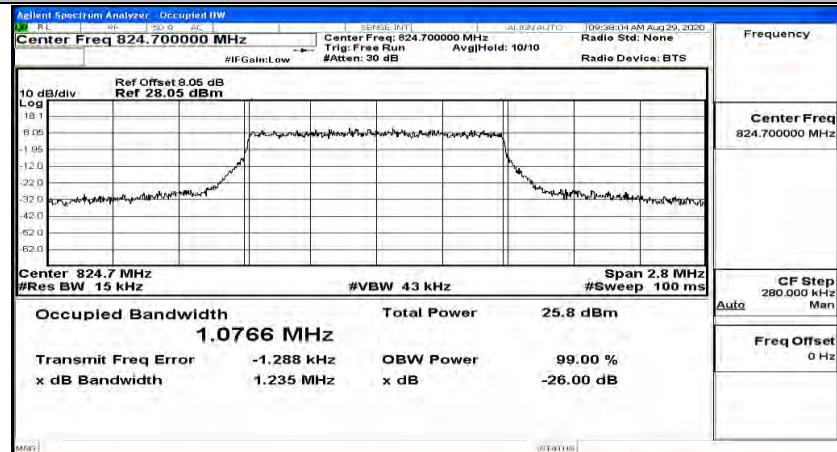
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_MCH\_QPSK



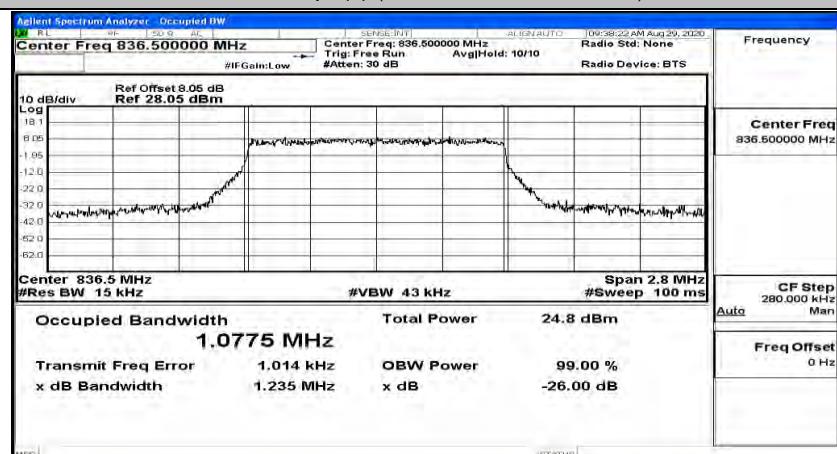
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_HCH\_QPSK



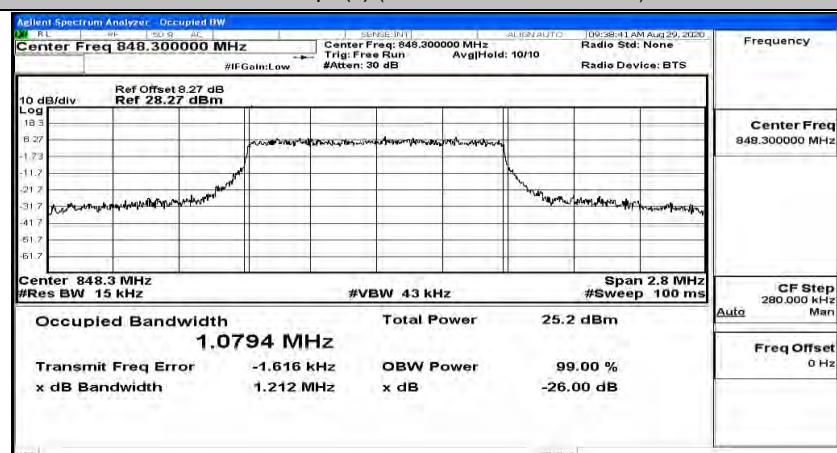
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_LCH\_16QAM



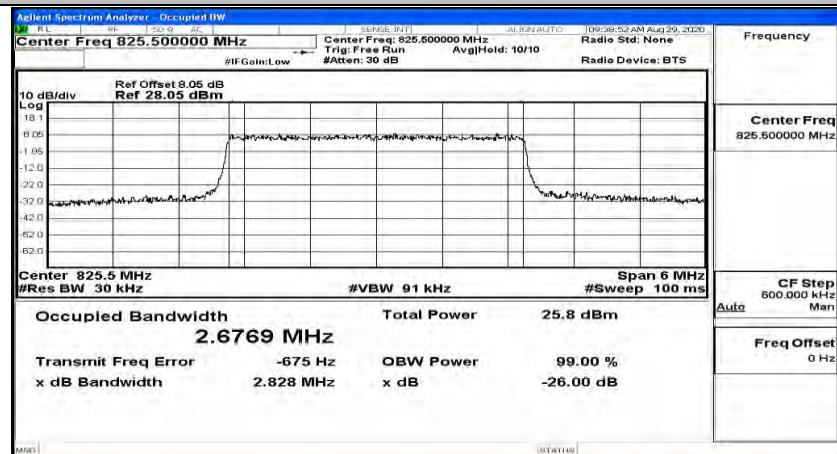
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_MCH\_16QAM



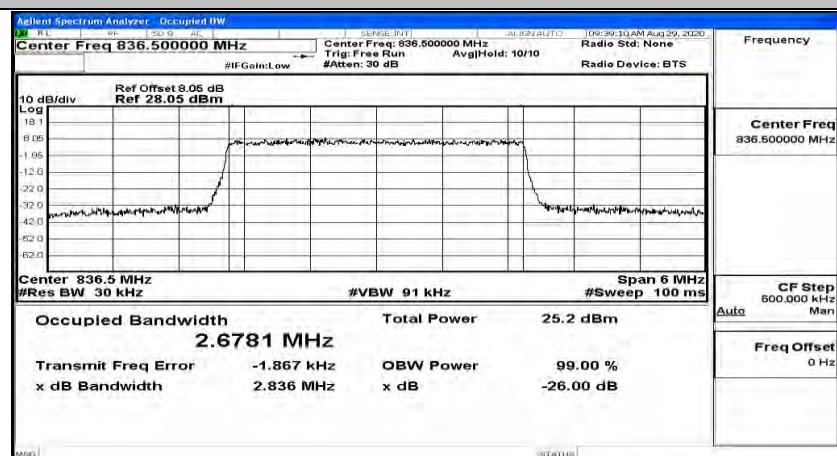
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_HCH\_16QAM



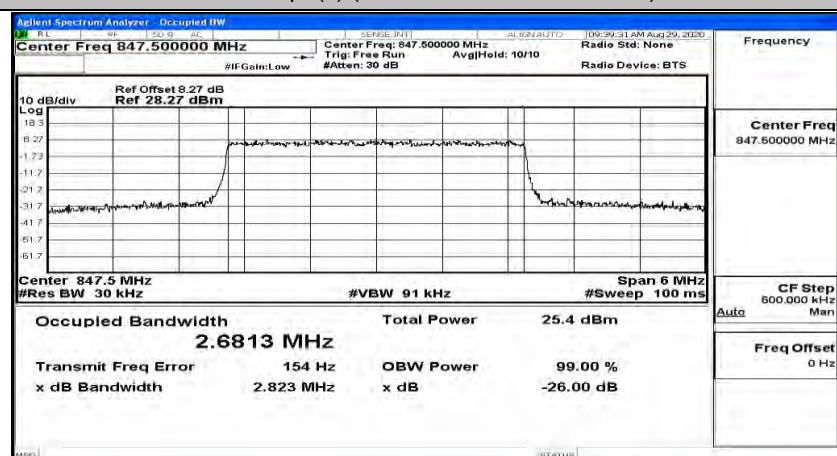
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 3 MHz)\_LCH\_QPSK



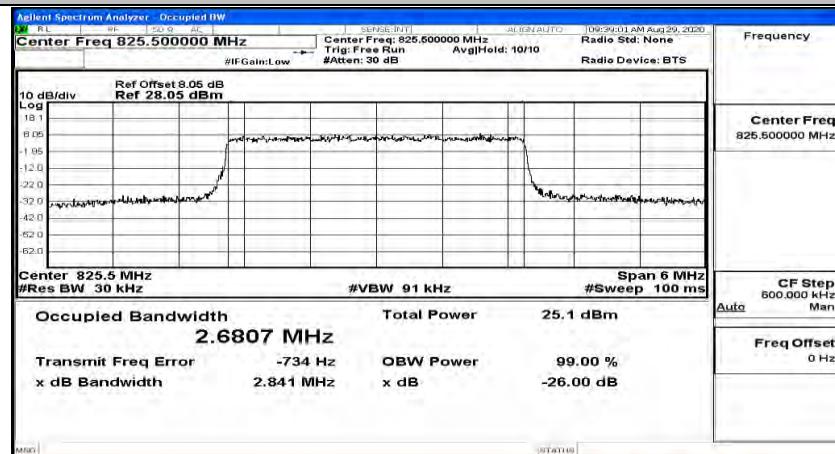
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 3 MHz)\_MCH\_QPSK



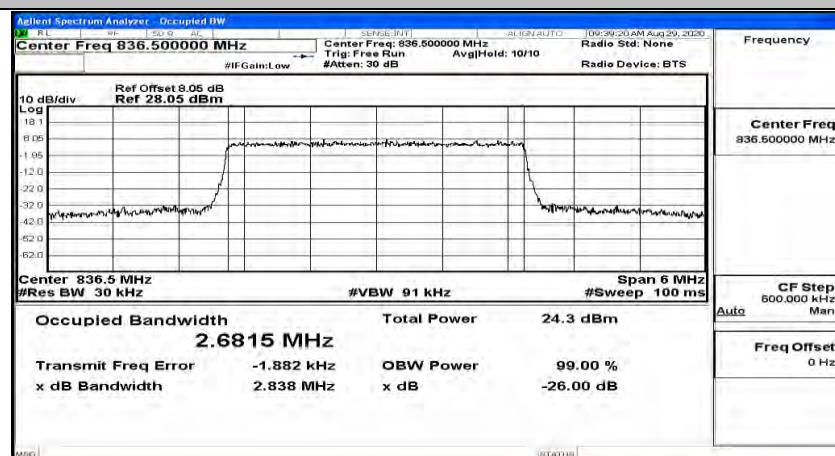
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 3 MHz)\_HCH\_QPSK



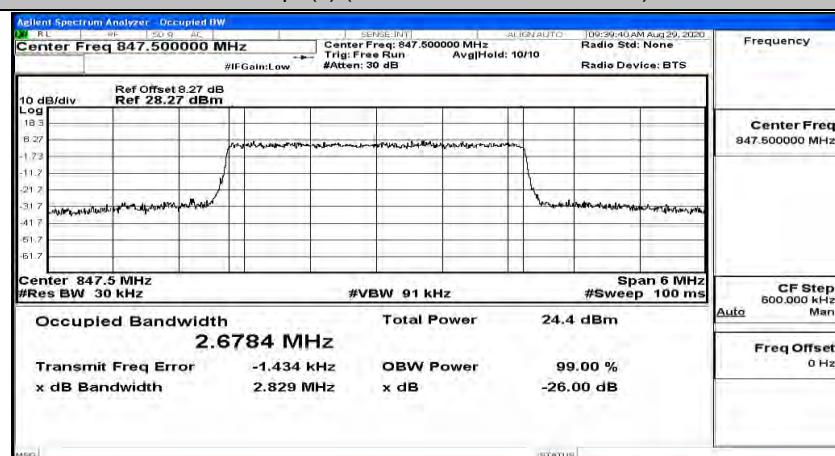
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 3 MHz)\_LCH\_16QAM



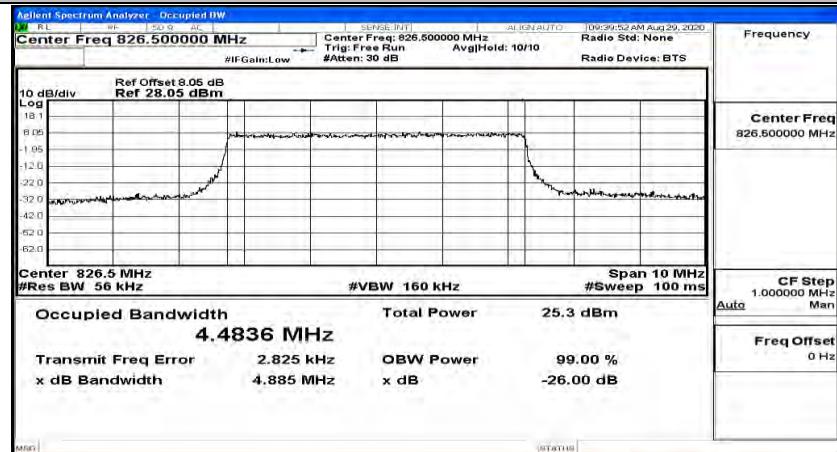
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 3 MHz)\_MCH\_16QAM



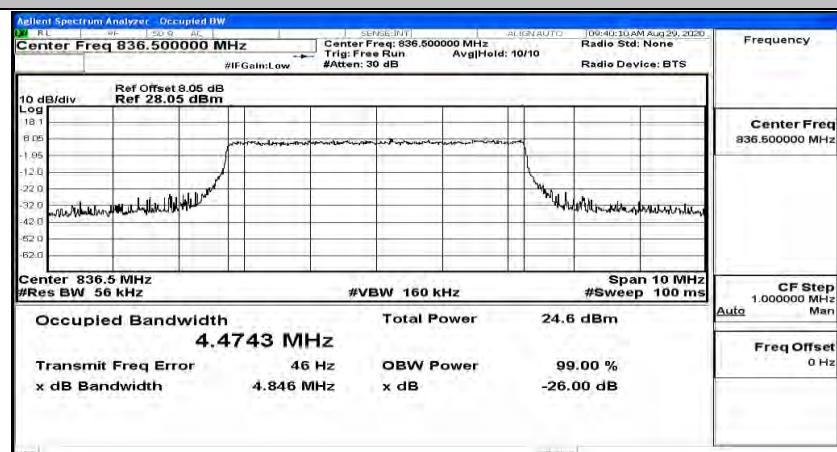
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 3 MHz)\_HCH\_16QAM



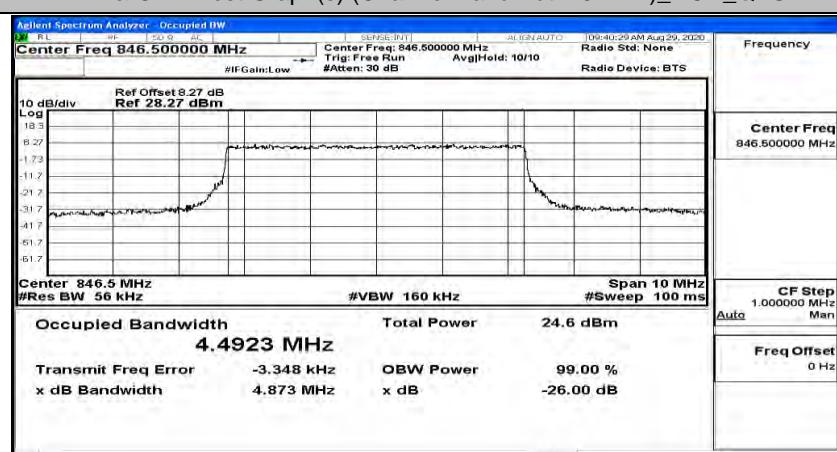
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 5 MHz)\_LCH\_QPSK



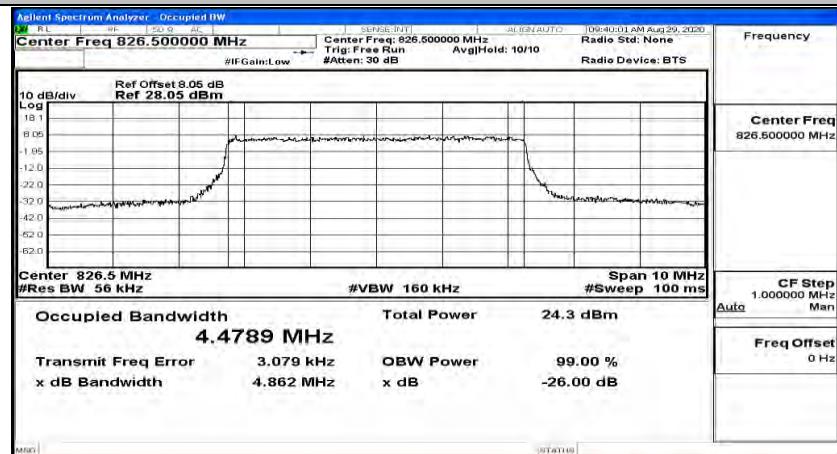
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 5 MHz)\_MCH\_QPSK



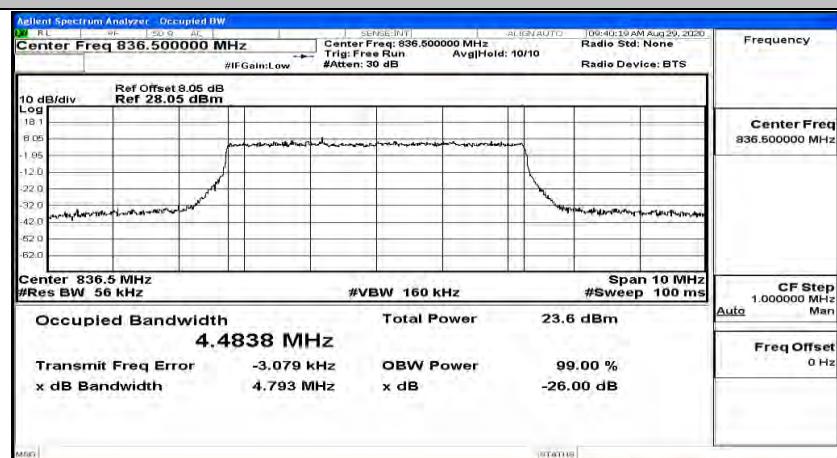
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 5 MHz)\_HCH\_QPSK



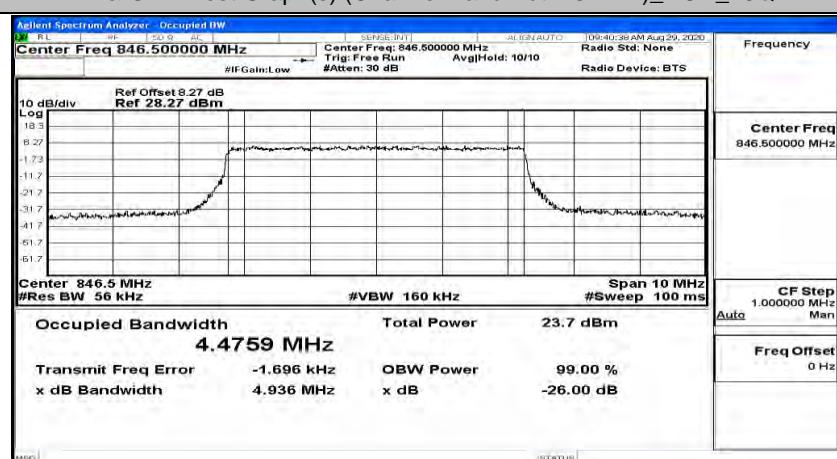
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 5 MHz)\_LCH\_16QAM



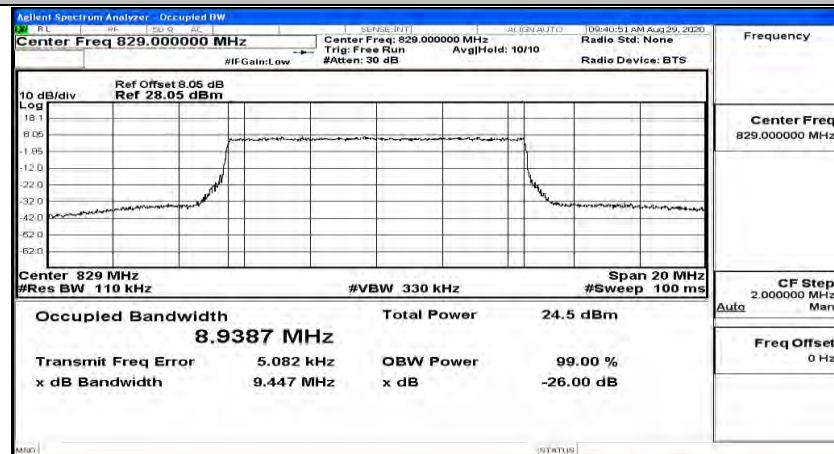
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 5 MHz)\_MCH\_16QAM



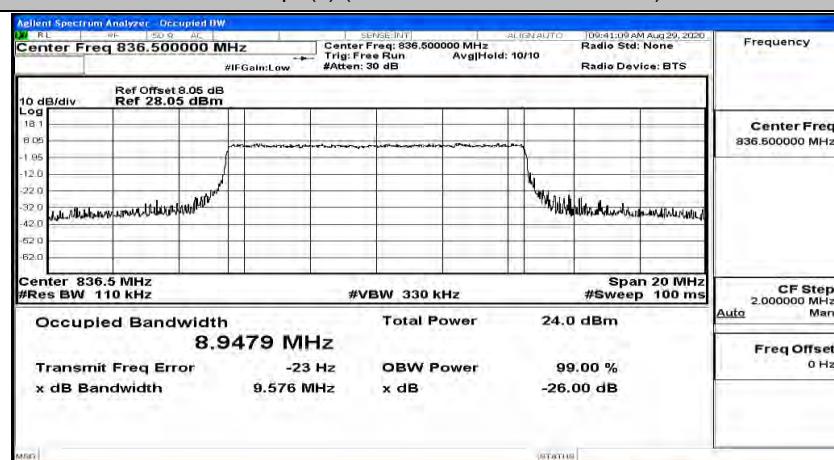
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 5 MHz)\_HCH\_16QAM



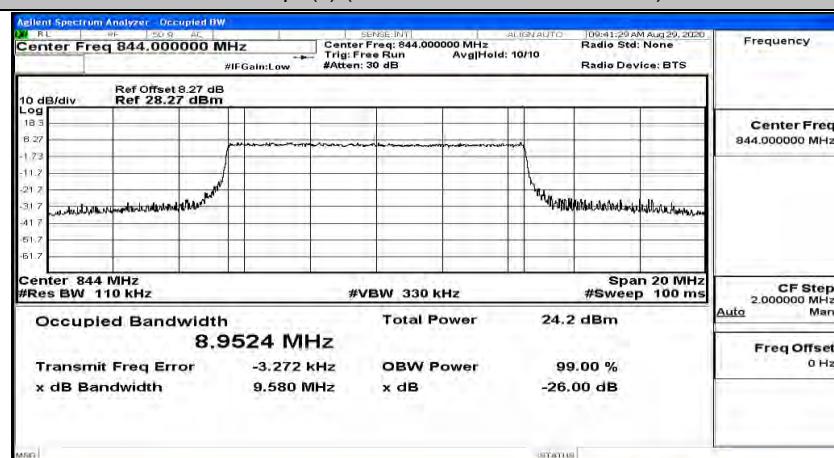
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 10 MHz)\_LCH\_QPSK



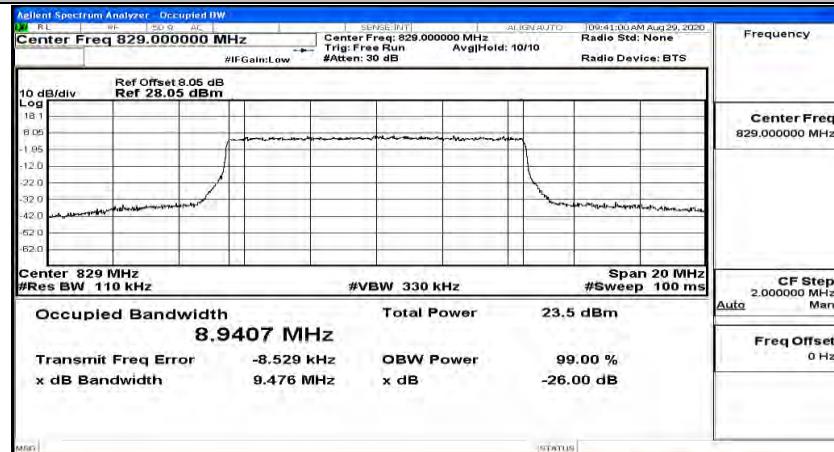
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 10 MHz)\_MCH\_QPSK



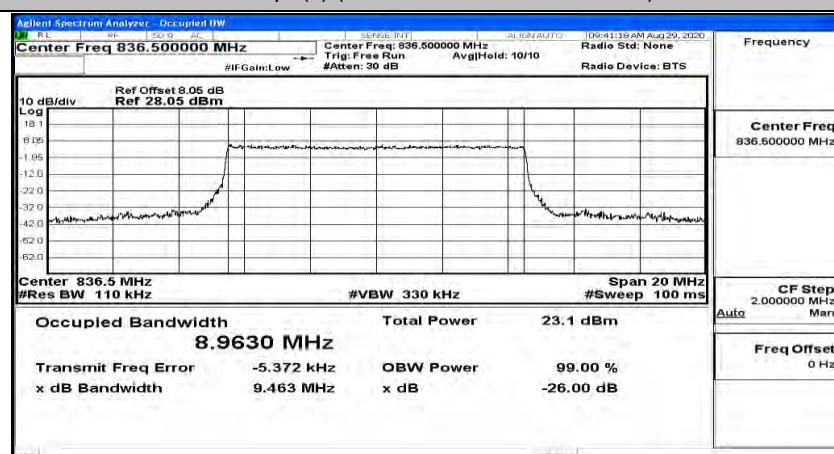
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 10 MHz)\_HCH\_QPSK



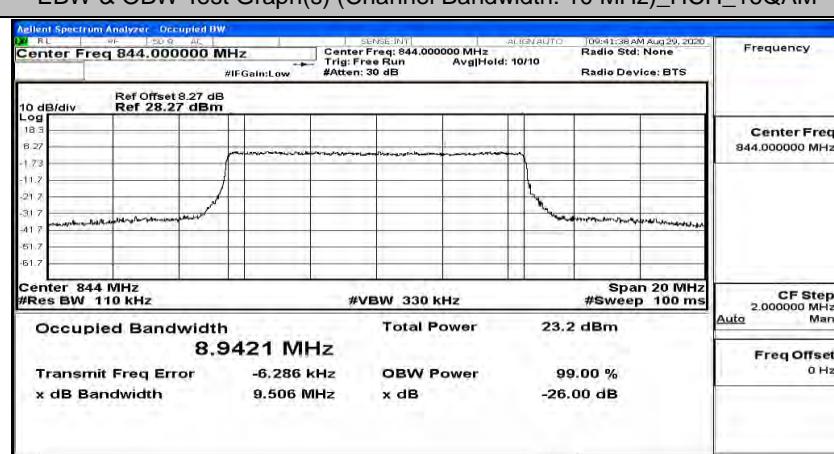
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 10 MHz)\_LCH\_16QAM



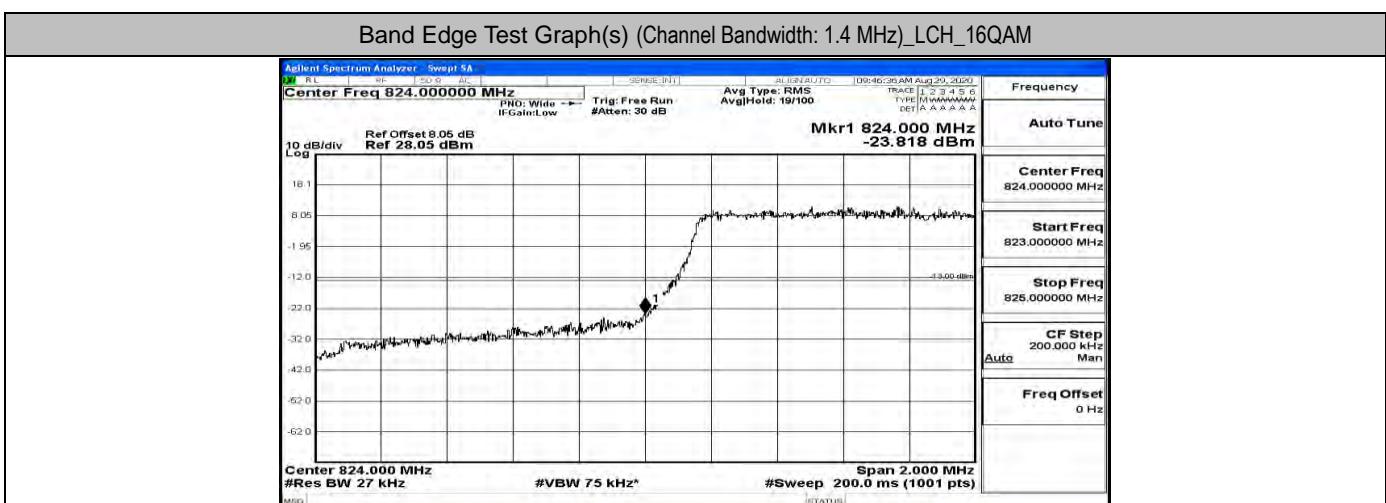
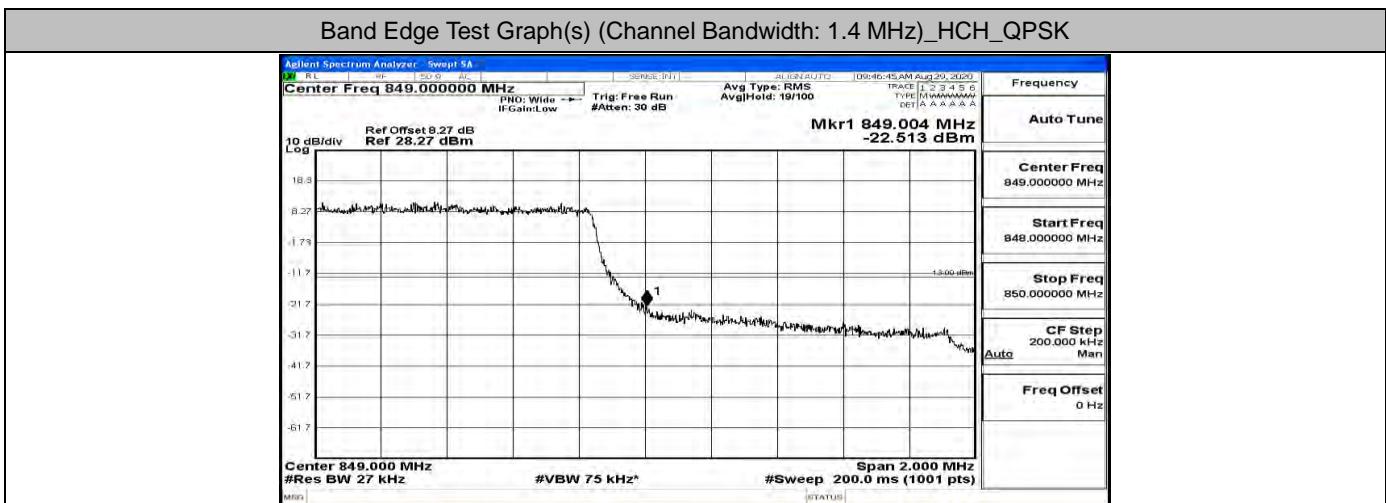
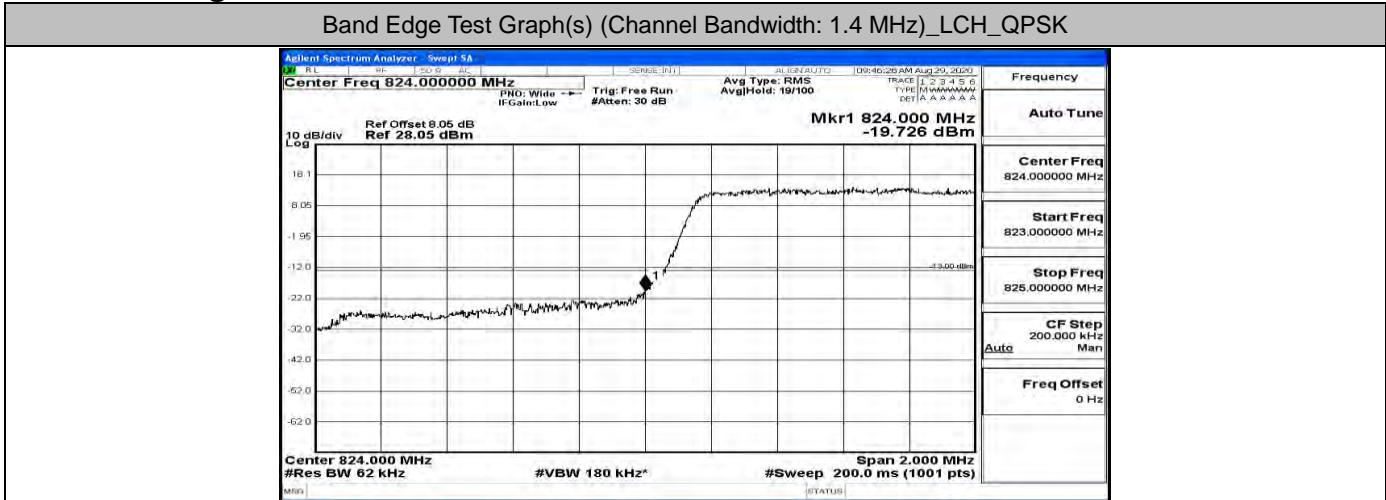
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 10 MHz)\_MCH\_16QAM



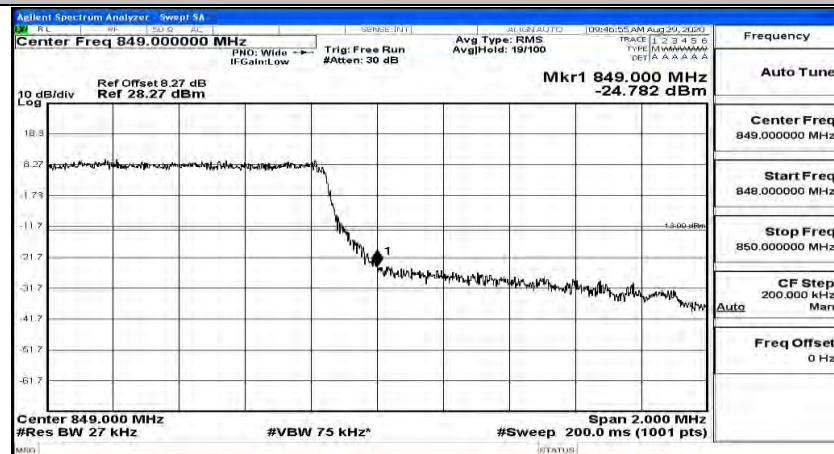
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 10 MHz)\_HCH\_16QAM



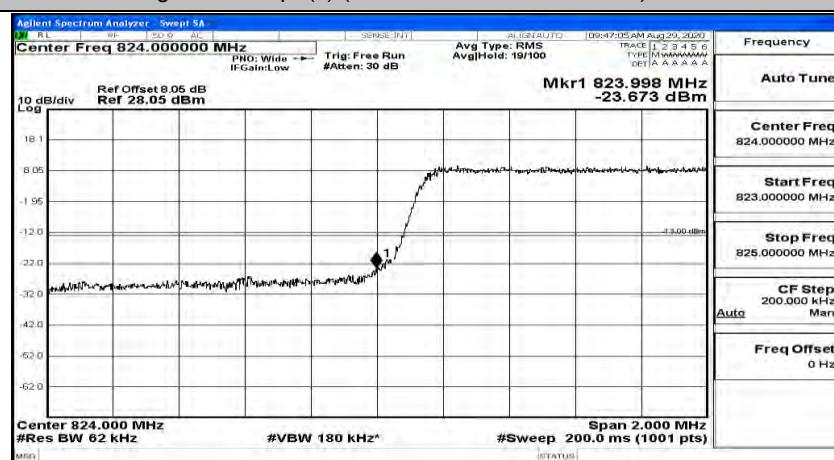
## A.4 Band Edge



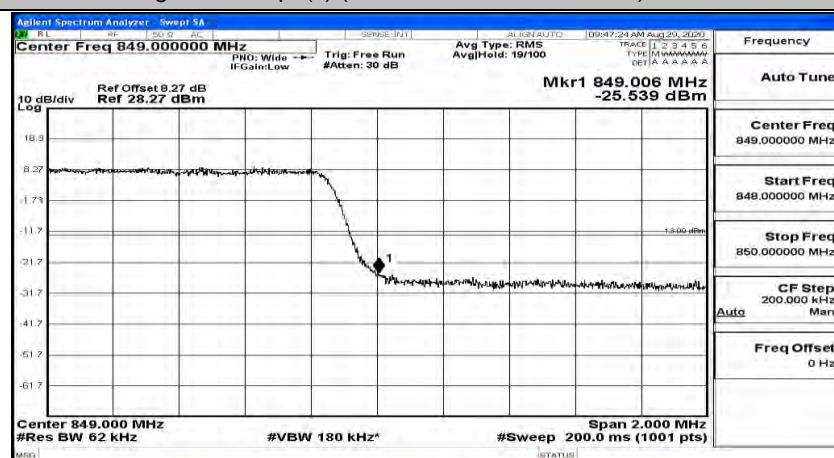
## Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_HCH\_16QAM



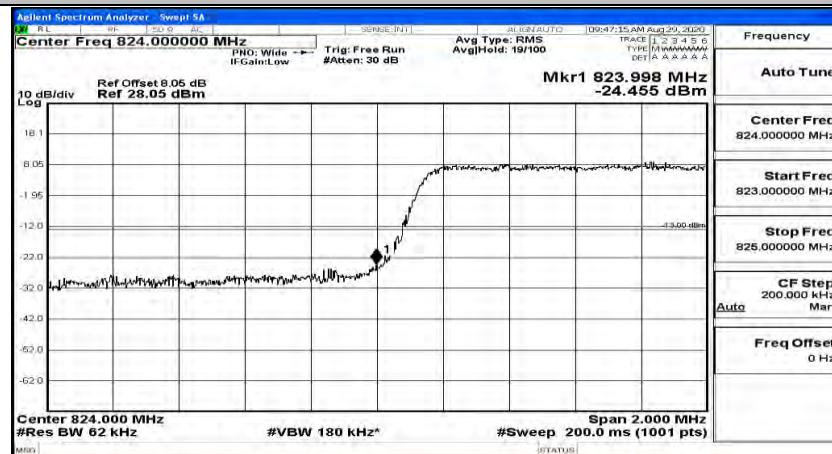
## Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)\_LCH\_QPSK



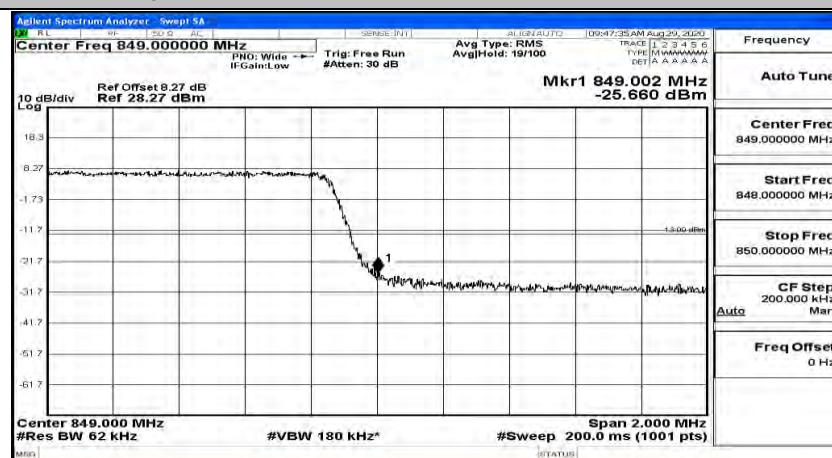
## Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)\_HCH\_QPSK



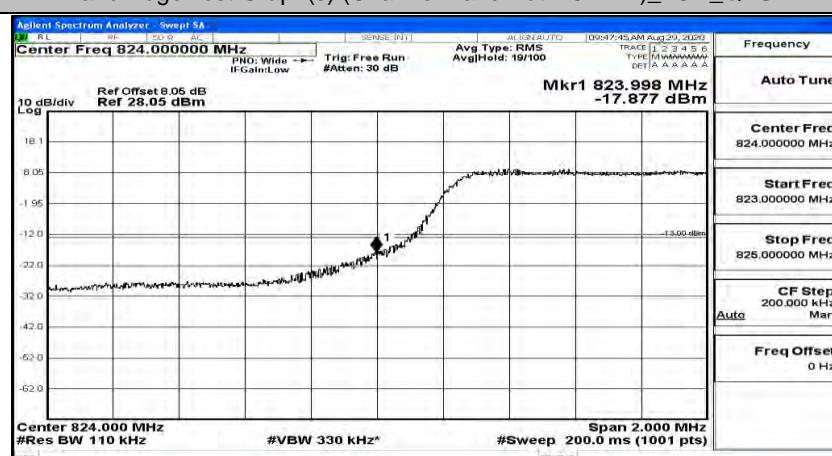
## Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)\_LCH\_16QAM



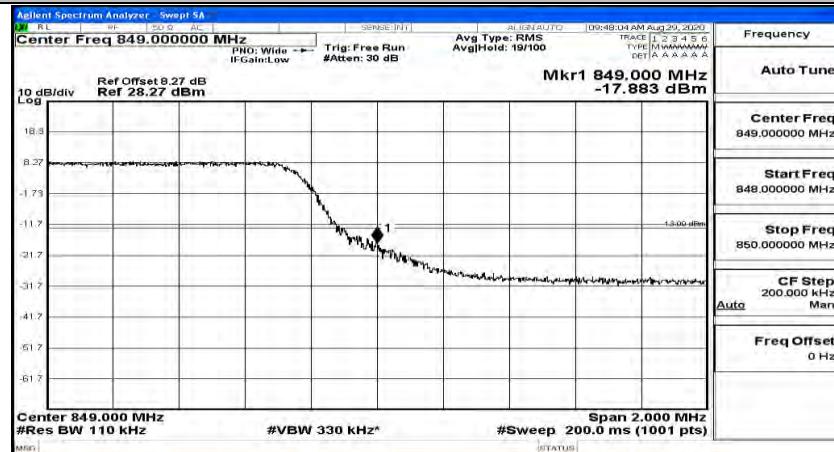
## Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)\_HCH\_16QAM



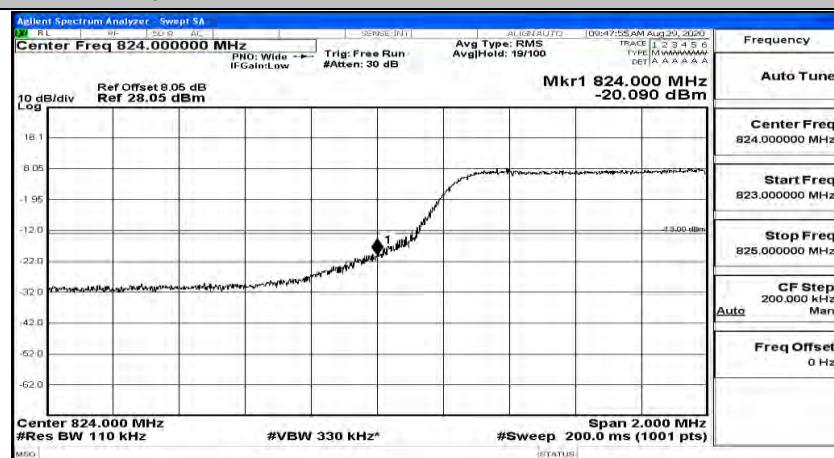
## Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)\_LCH\_QPSK



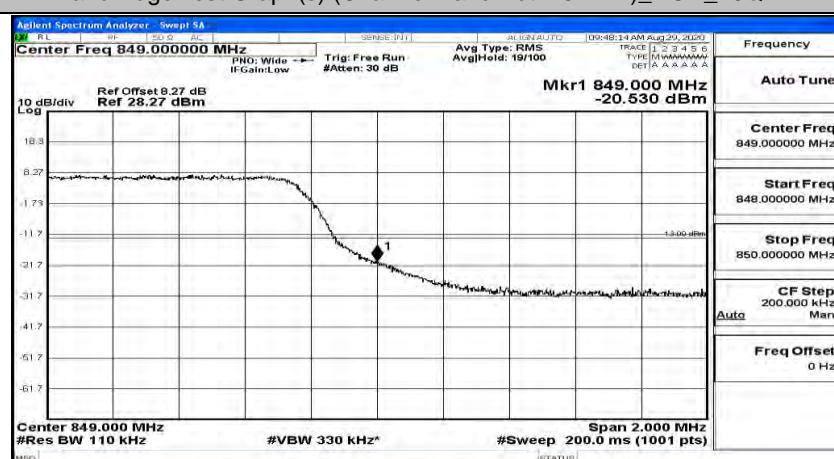
## Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)\_HCH\_QPSK



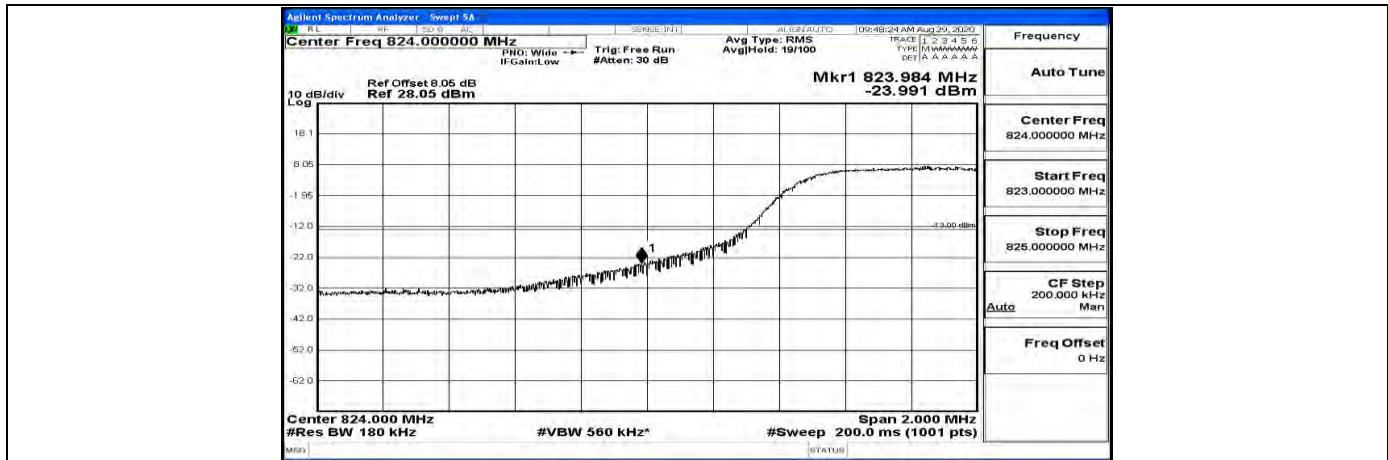
## Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)\_LCH\_16QAM



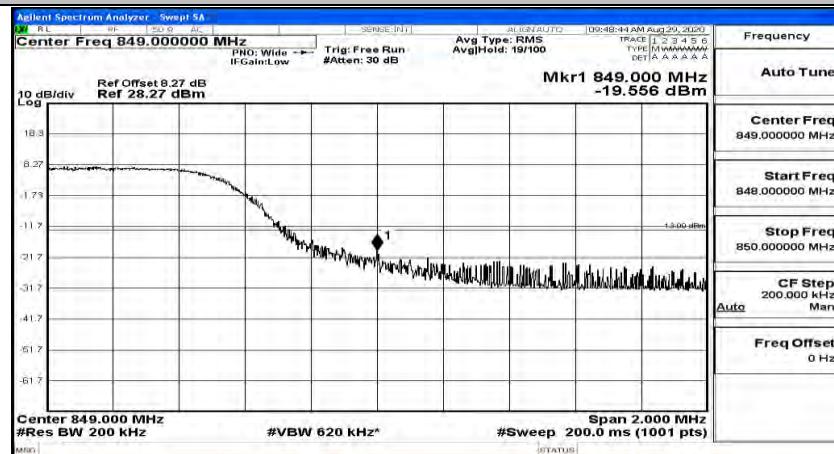
## Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)\_HCH\_16QAM



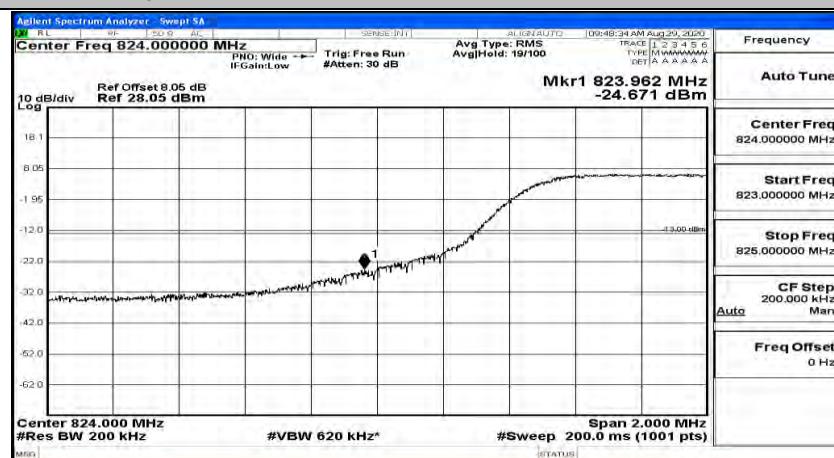
## Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)\_LCH\_QPSK



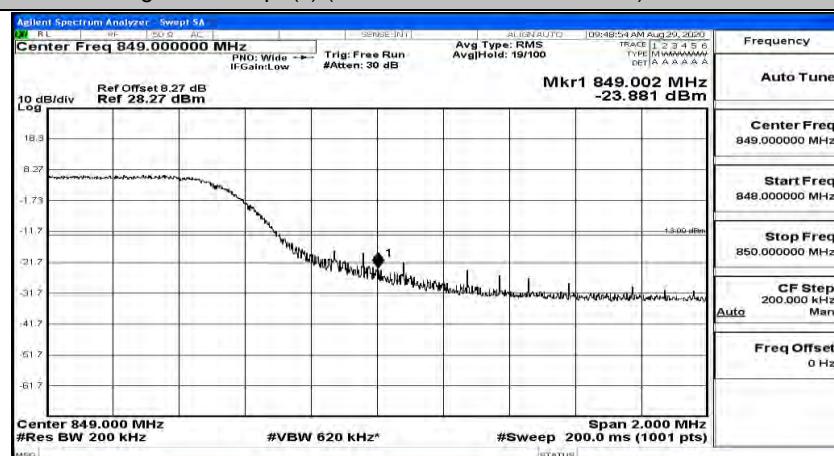
## Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)\_HCH\_QPSK



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

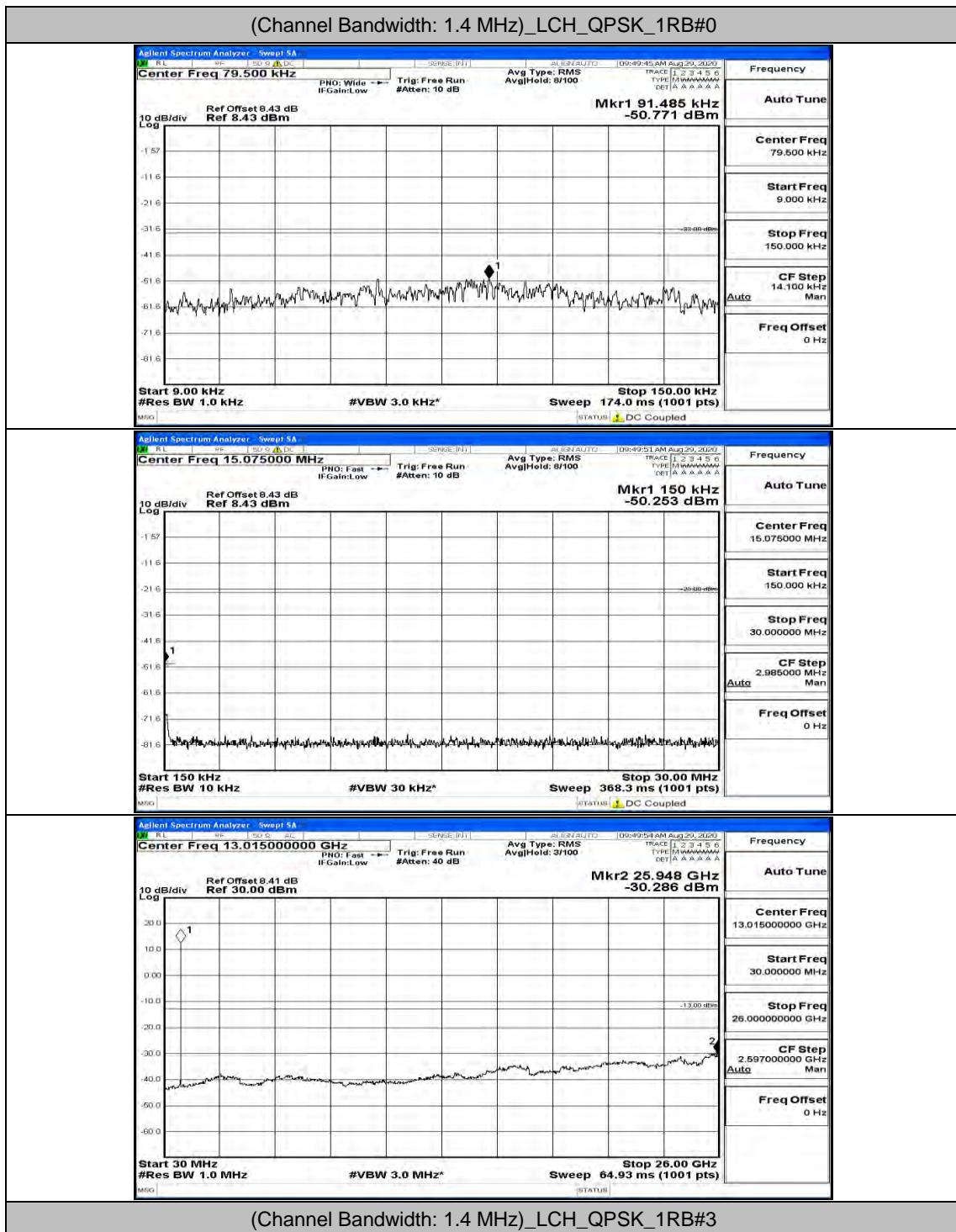


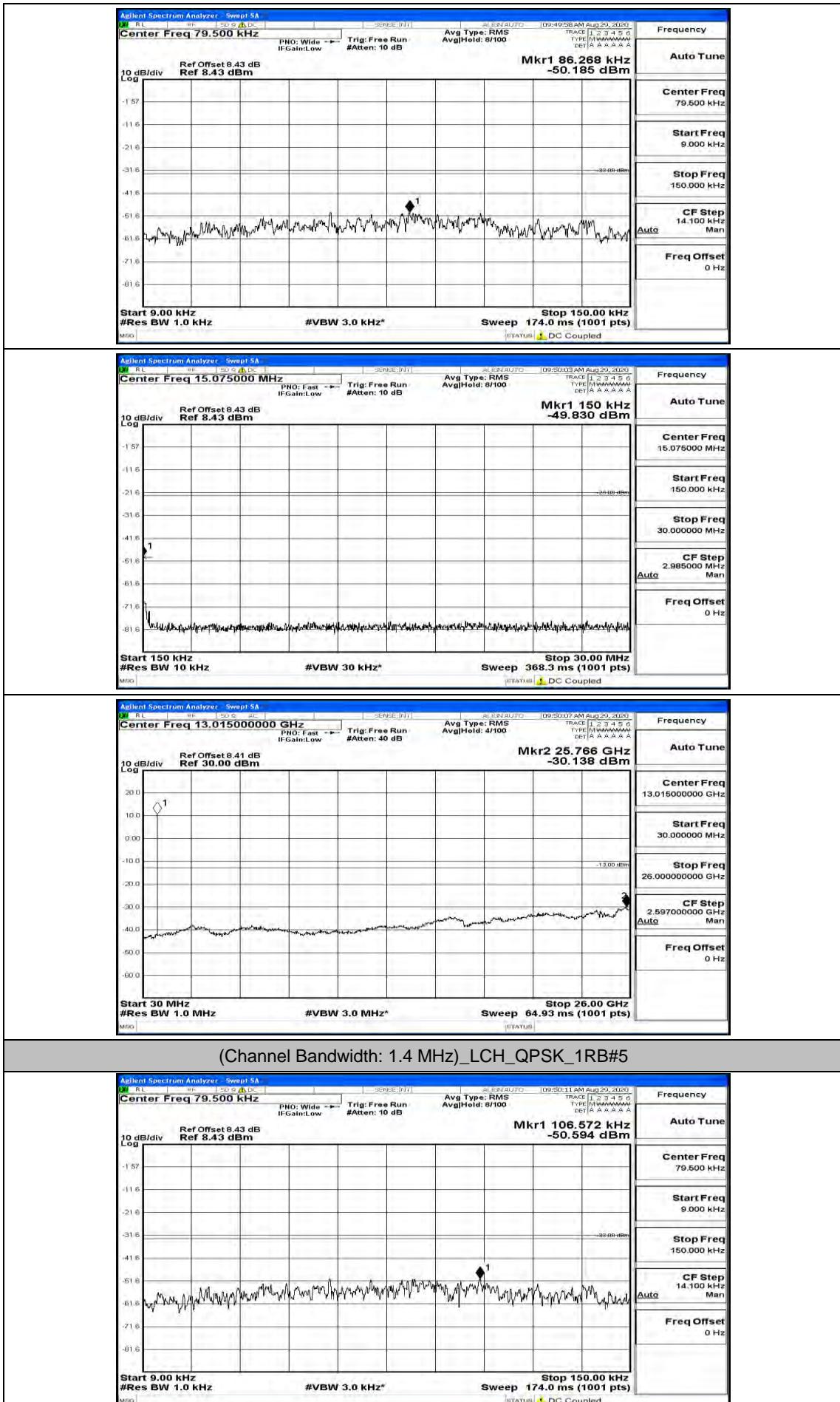
## Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)\_HCH\_16QAM

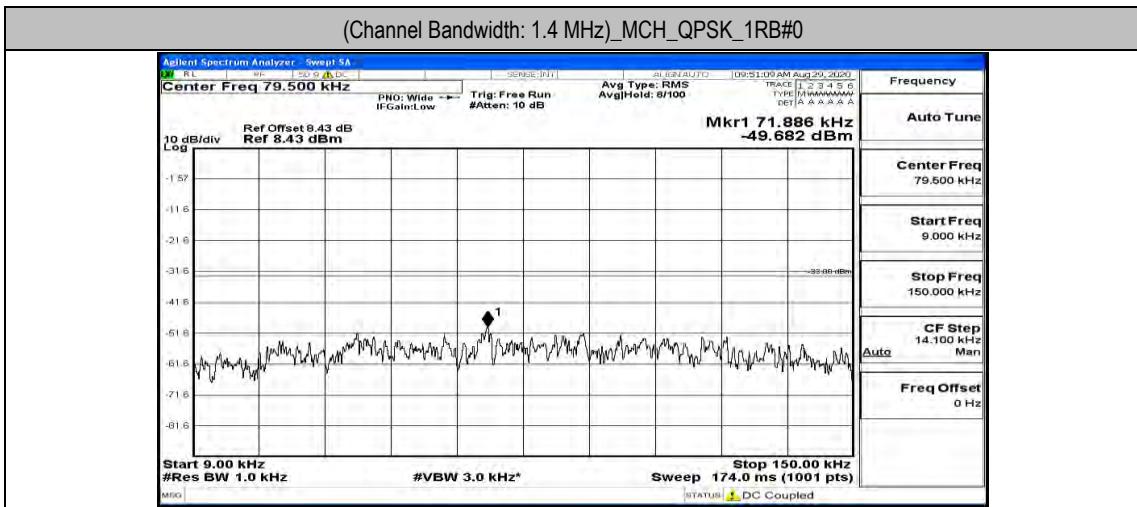
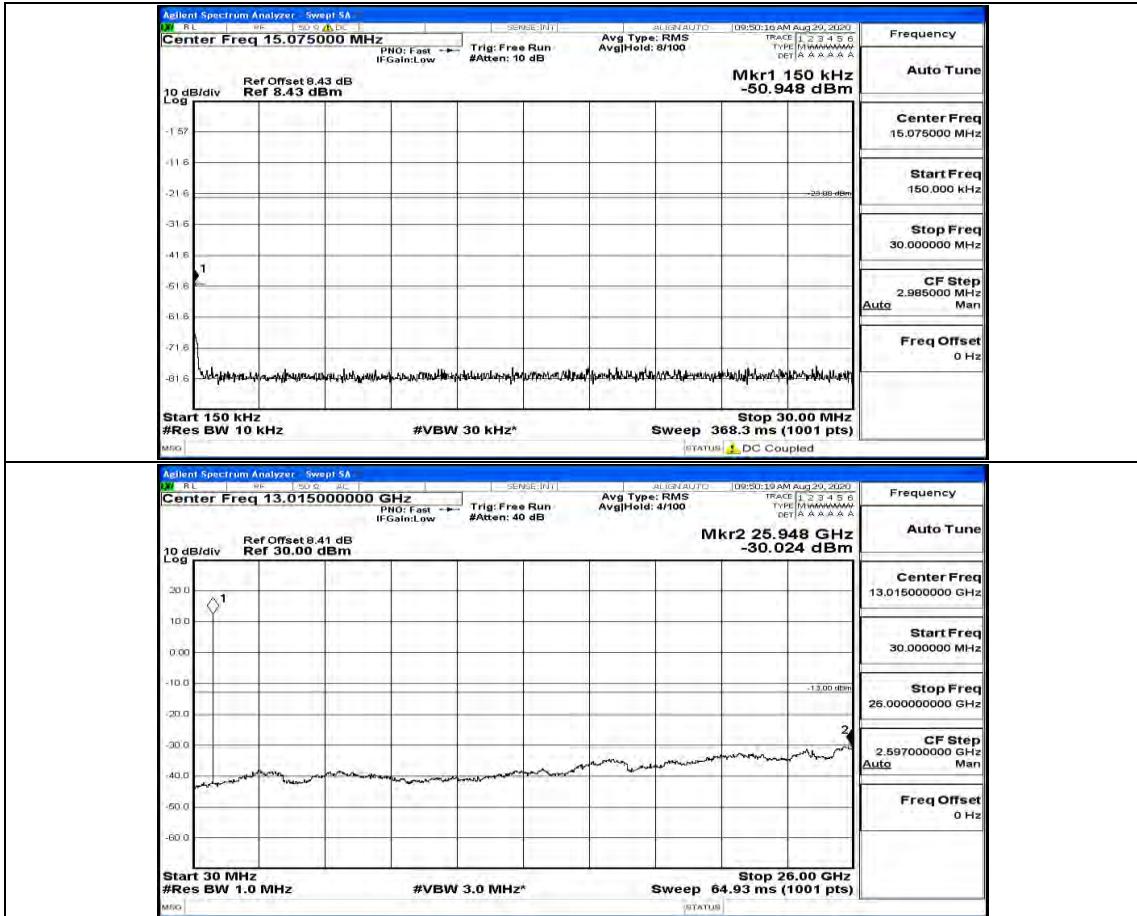


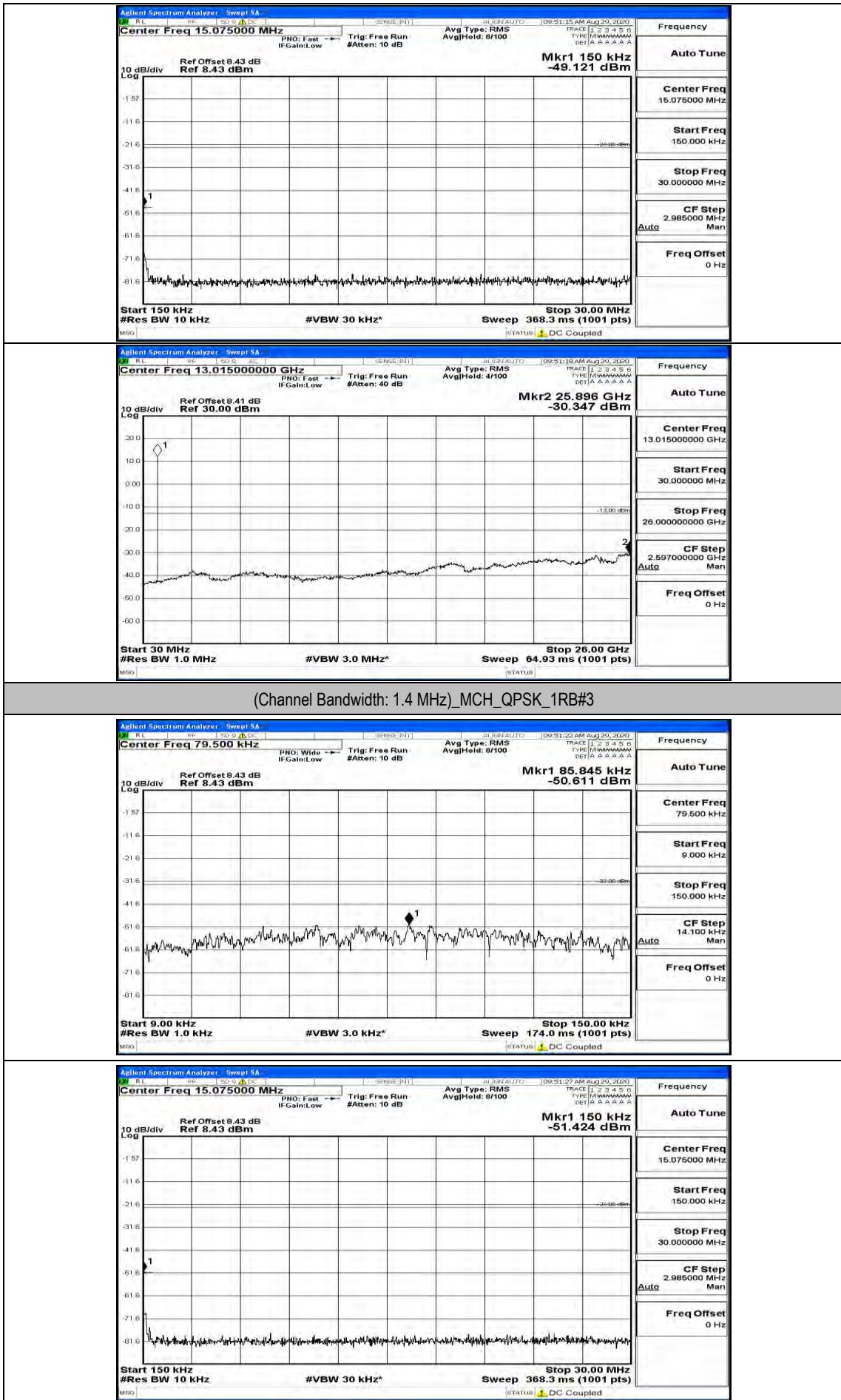
## A.5 Conducted Spurious Emission

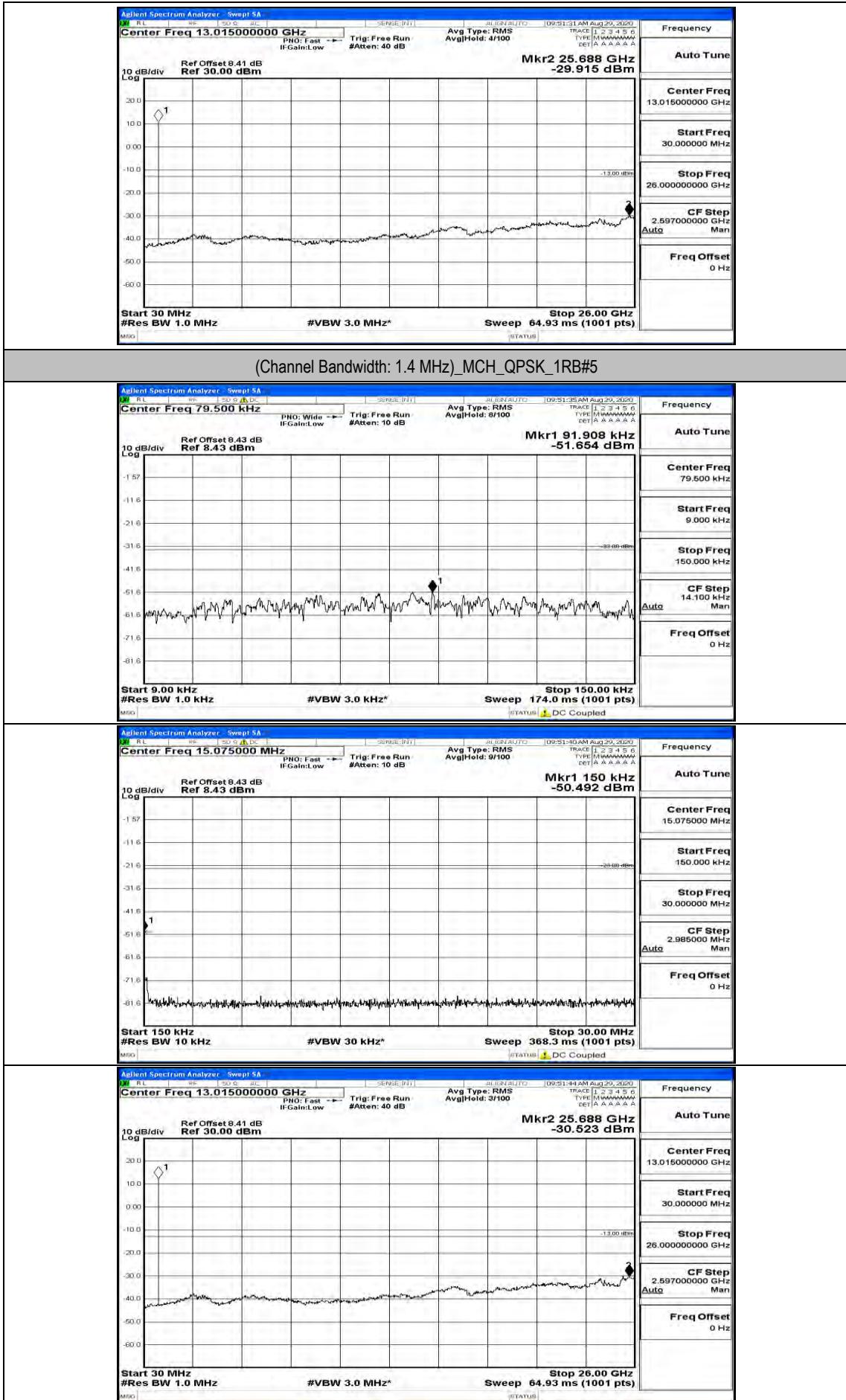
### Channel Bandwidth: 1.4 MHz

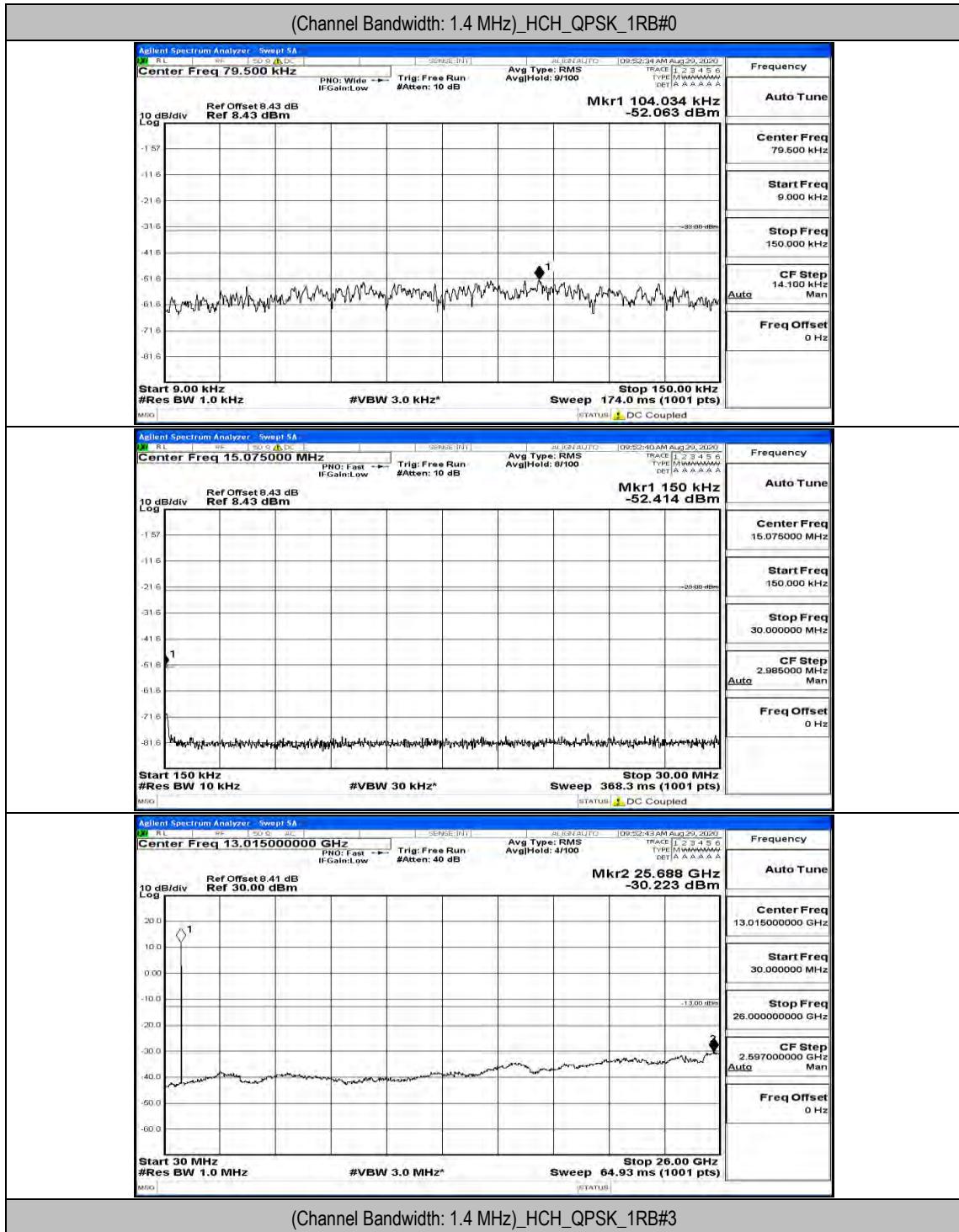


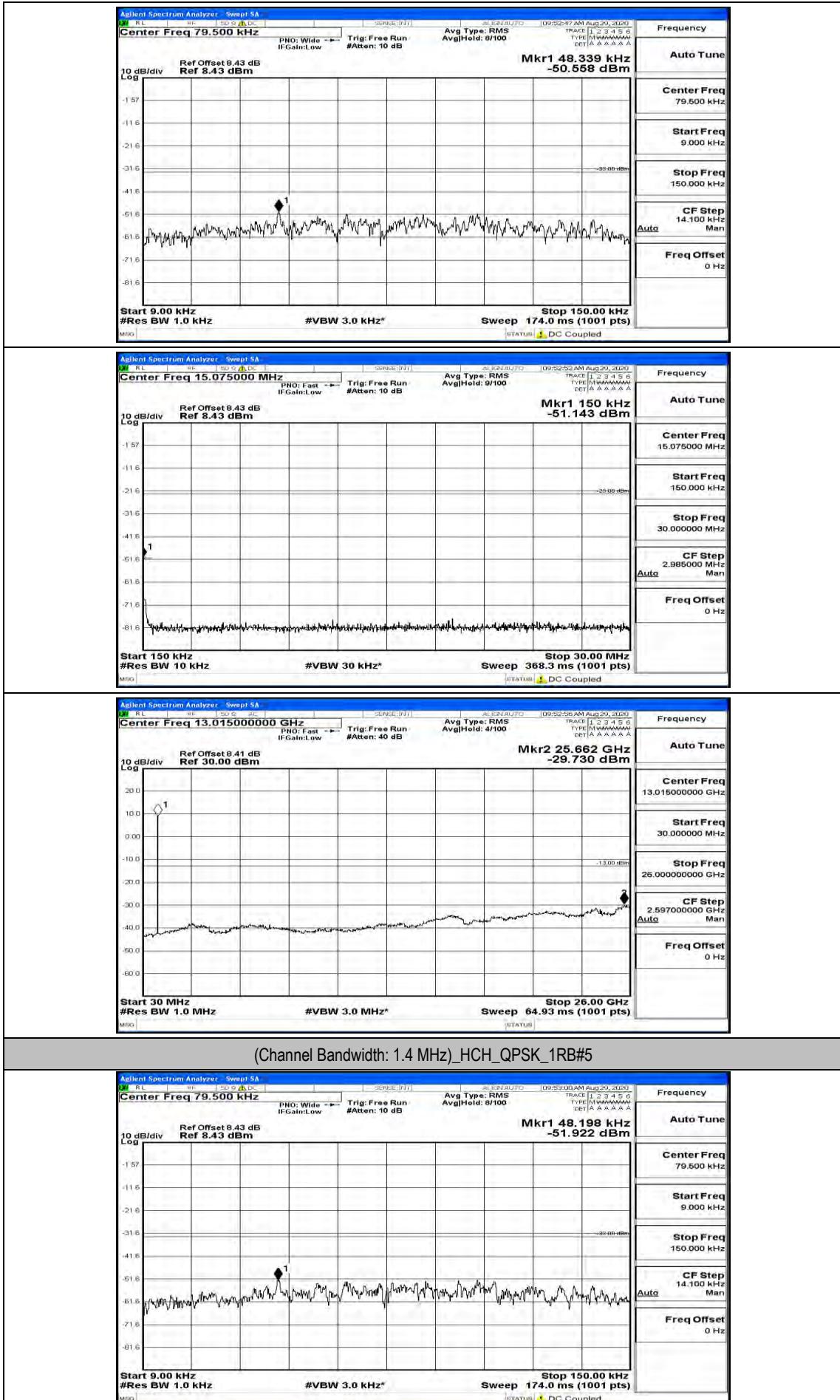


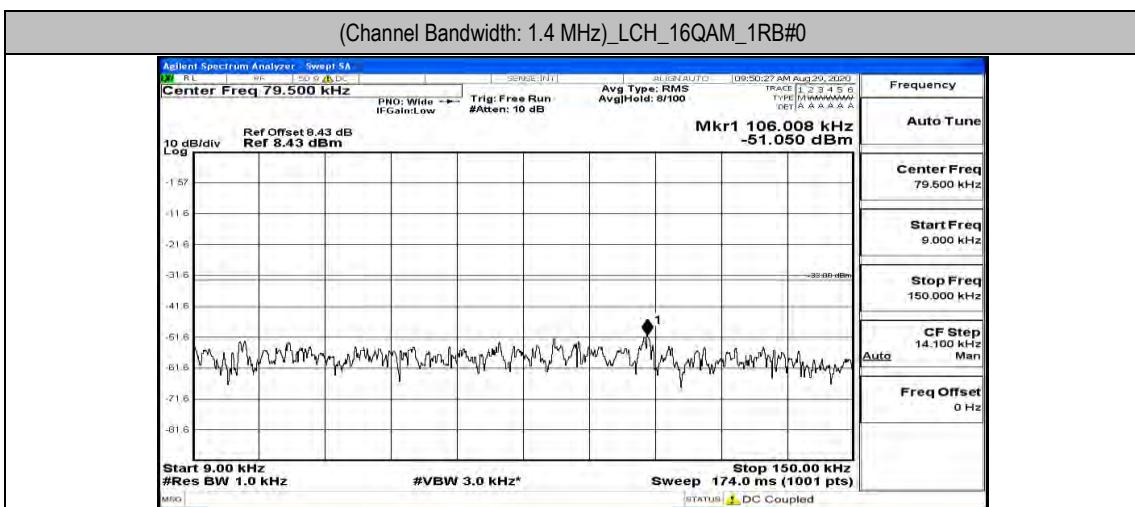
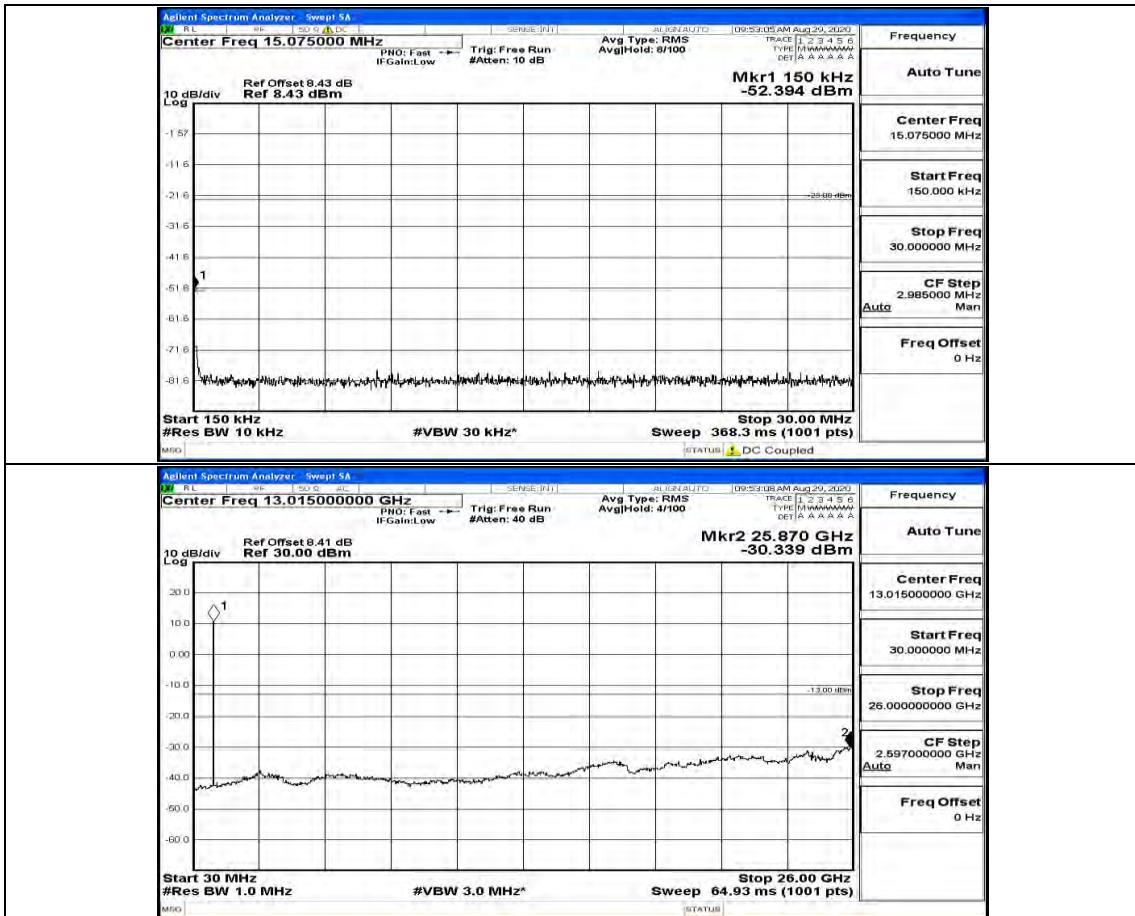


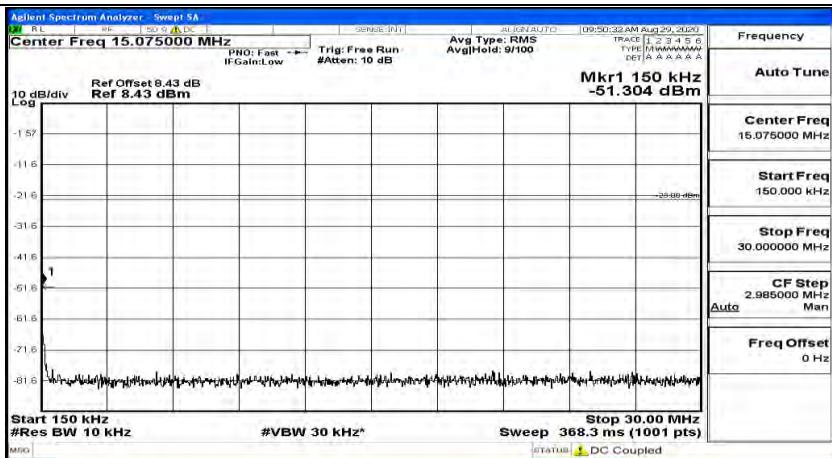




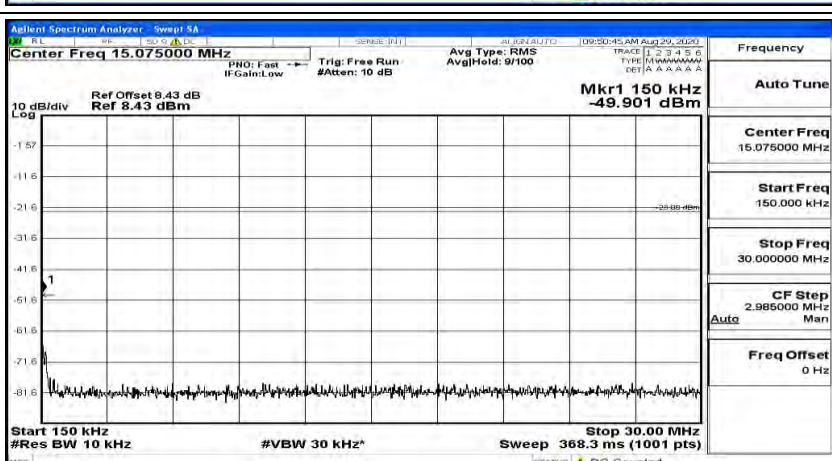
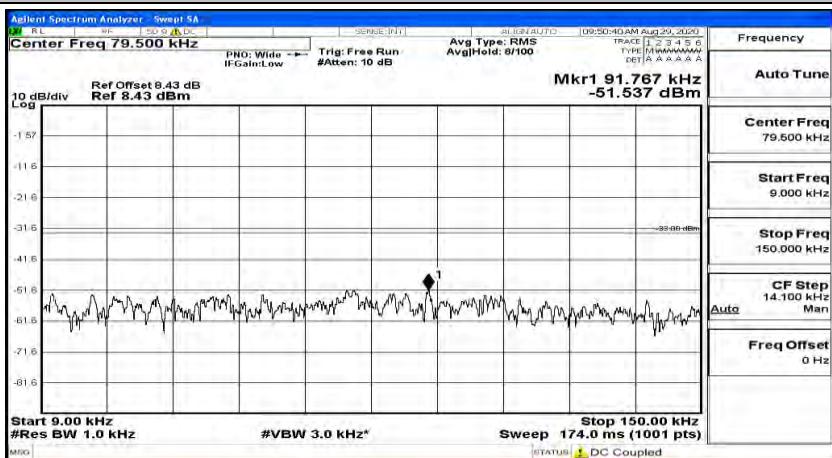


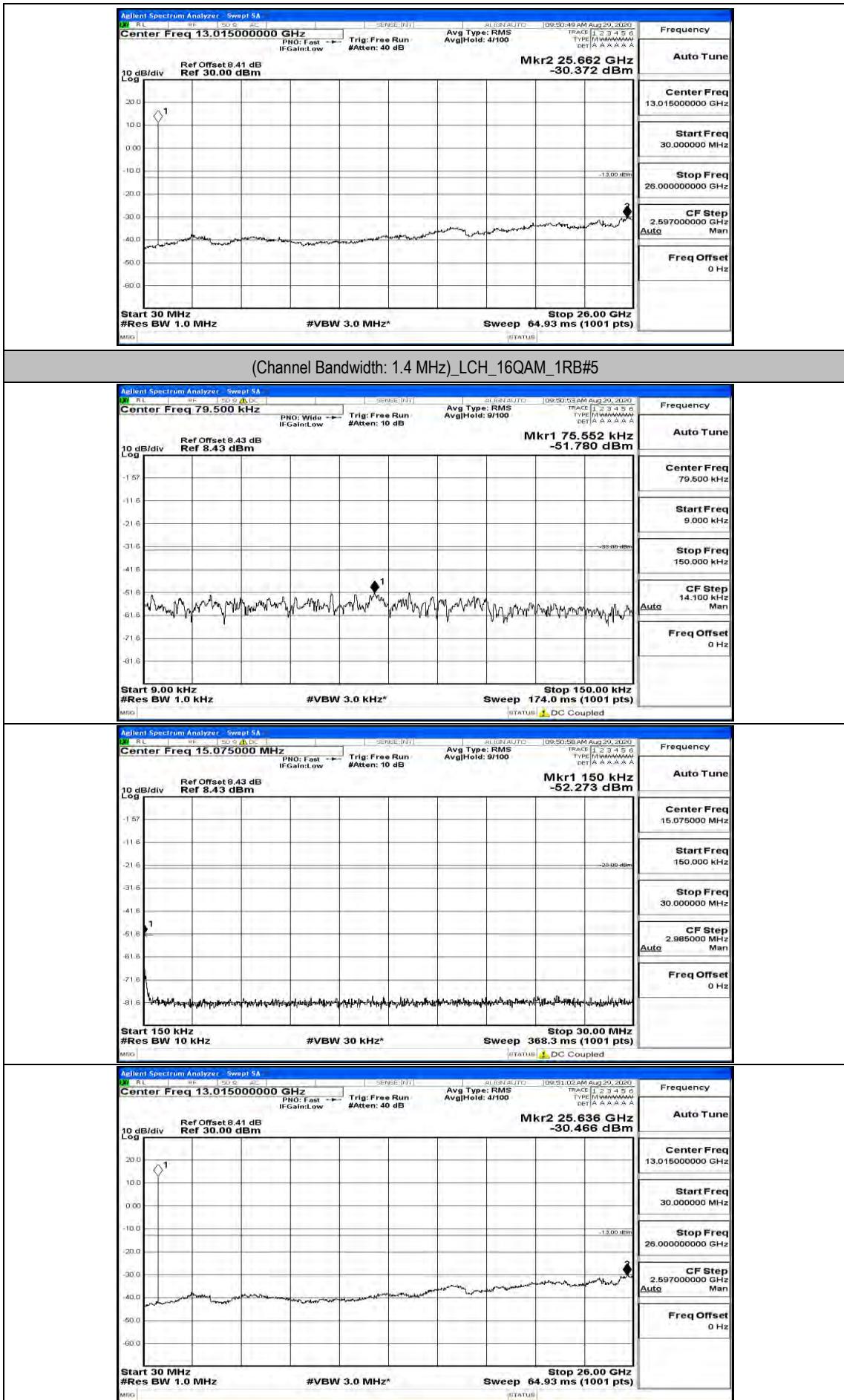


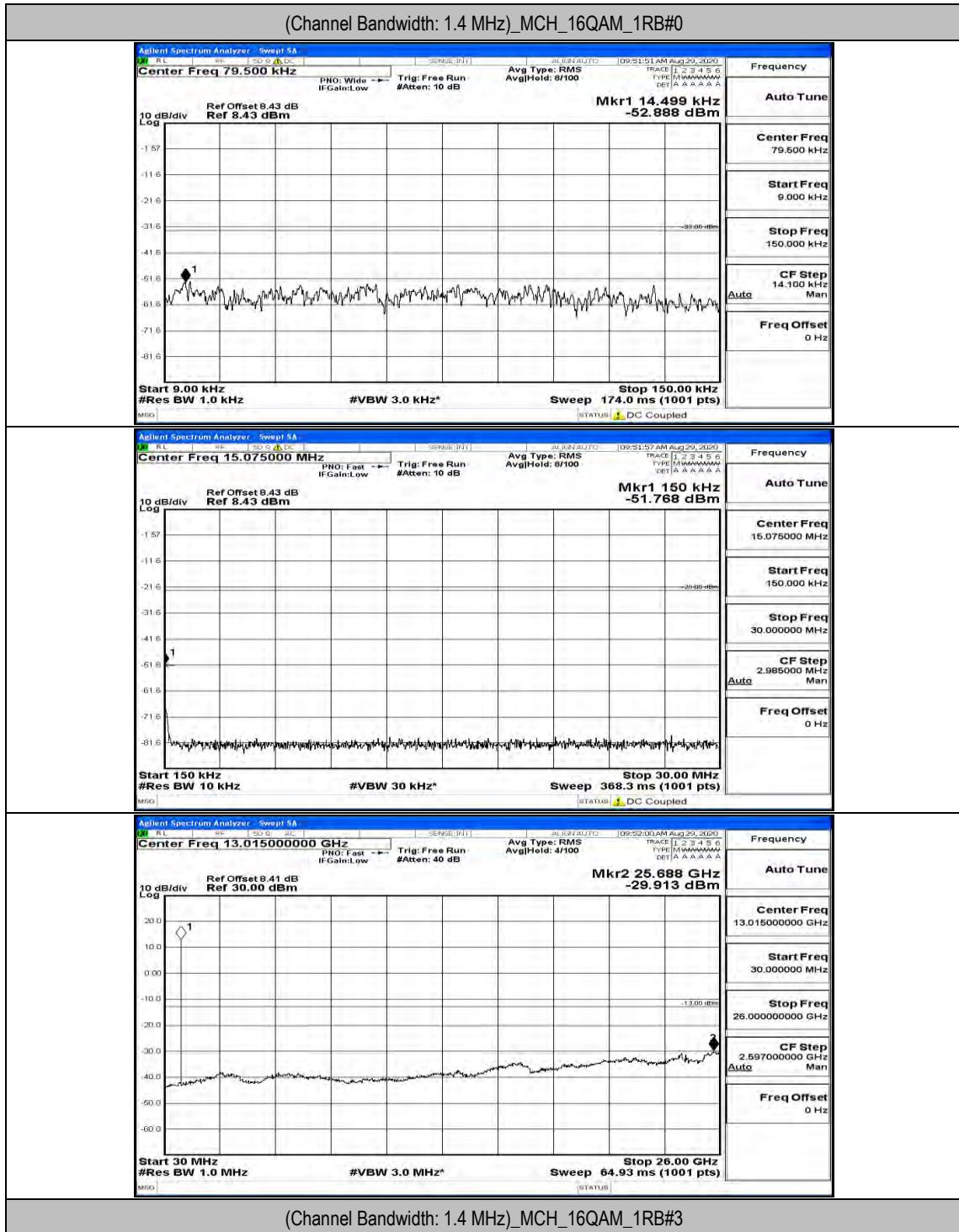


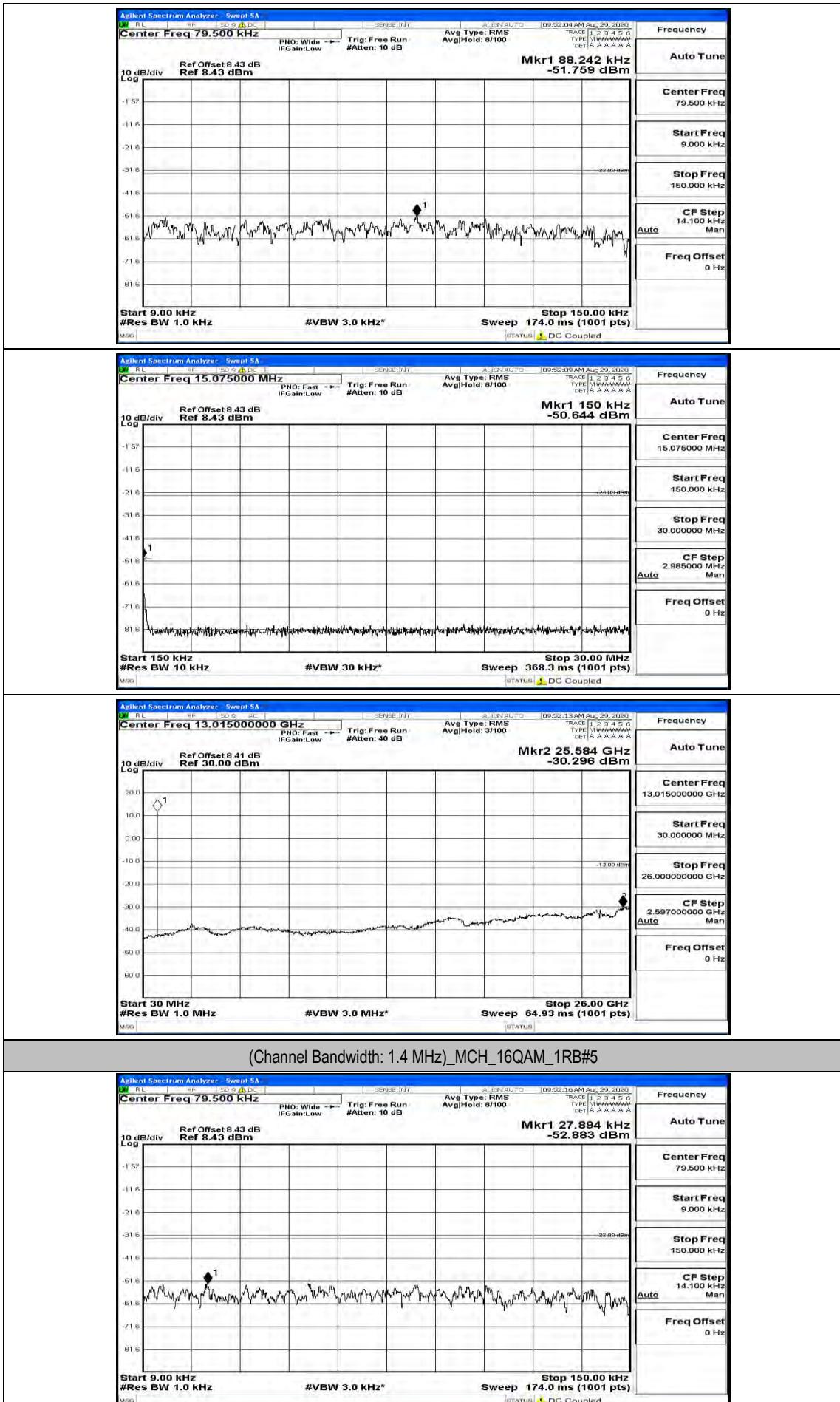


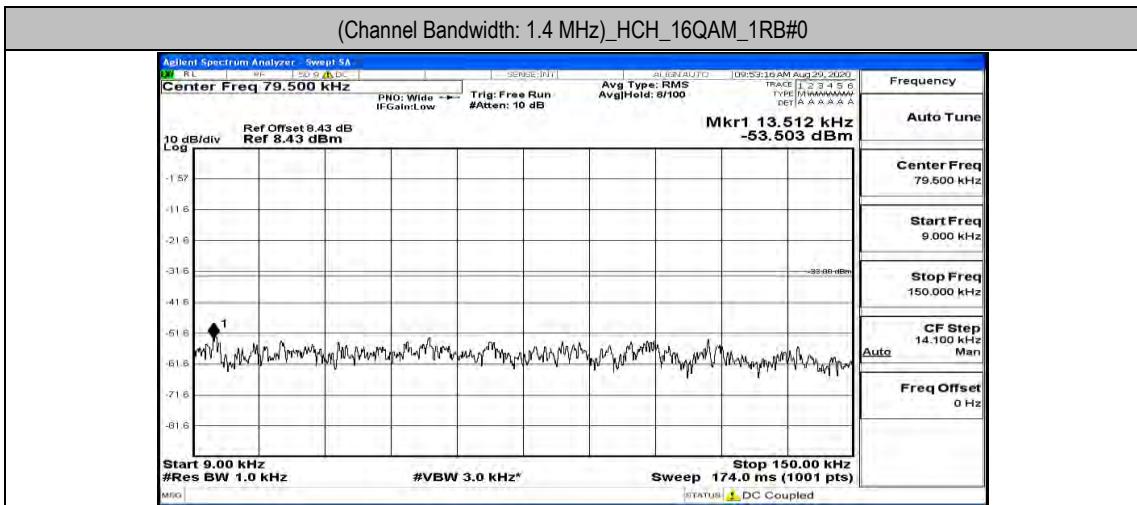
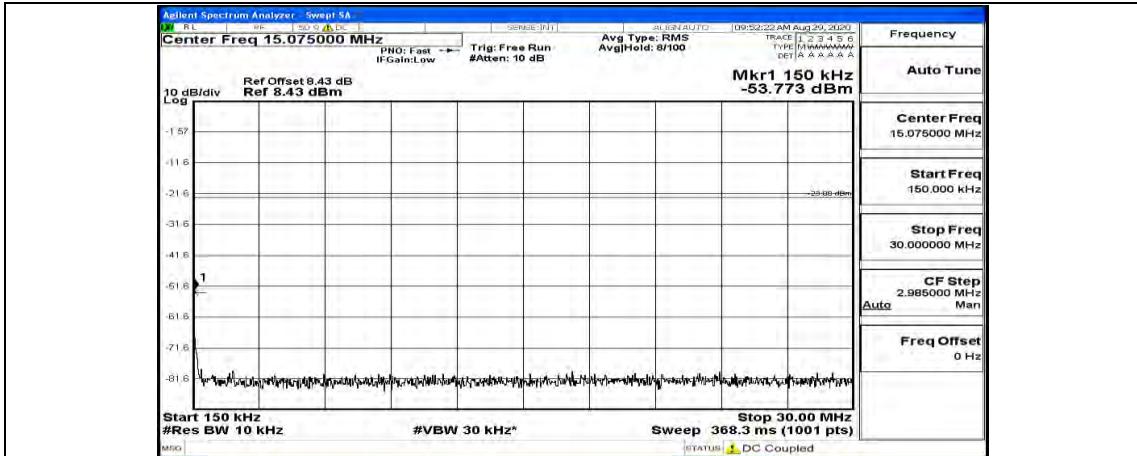
(Channel Bandwidth: 1.4 MHz)\_LCH\_16QAM\_1RB#3

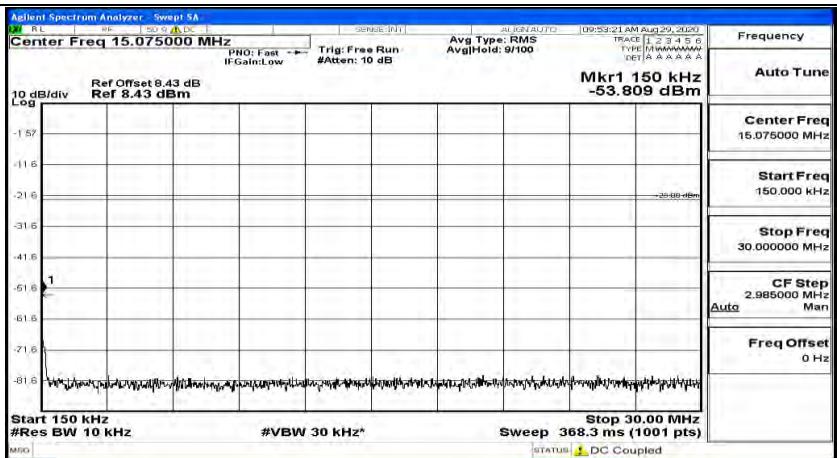




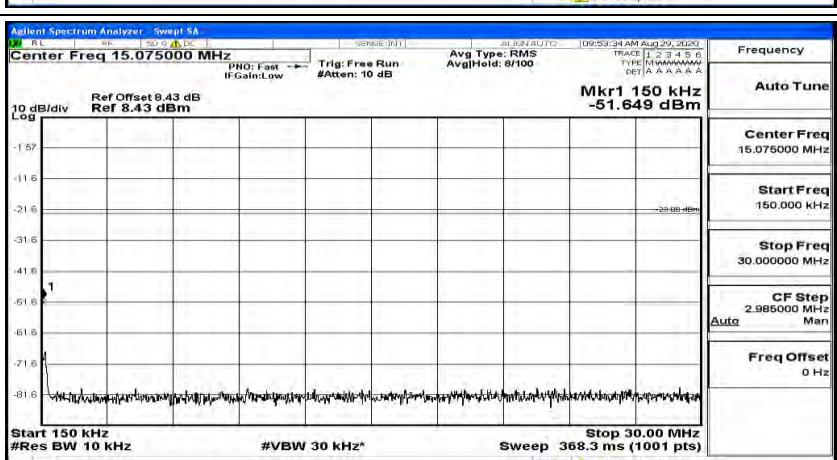
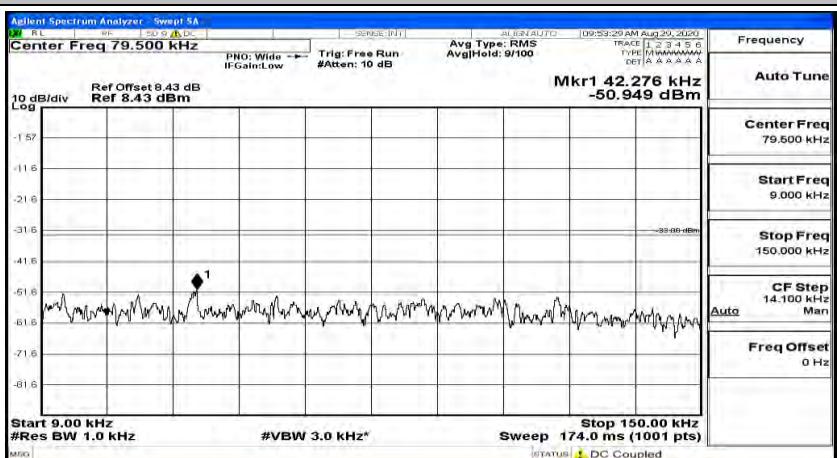


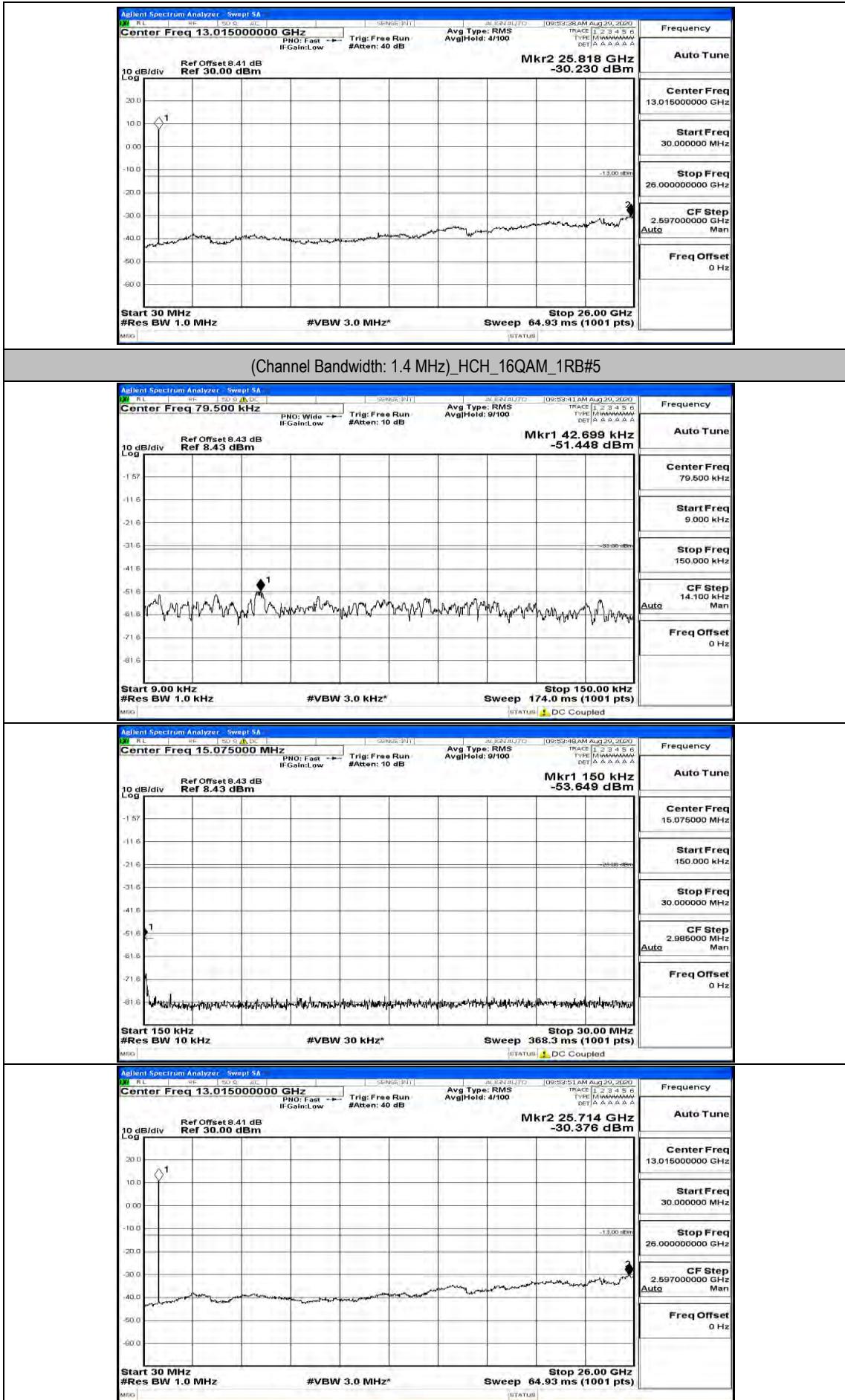






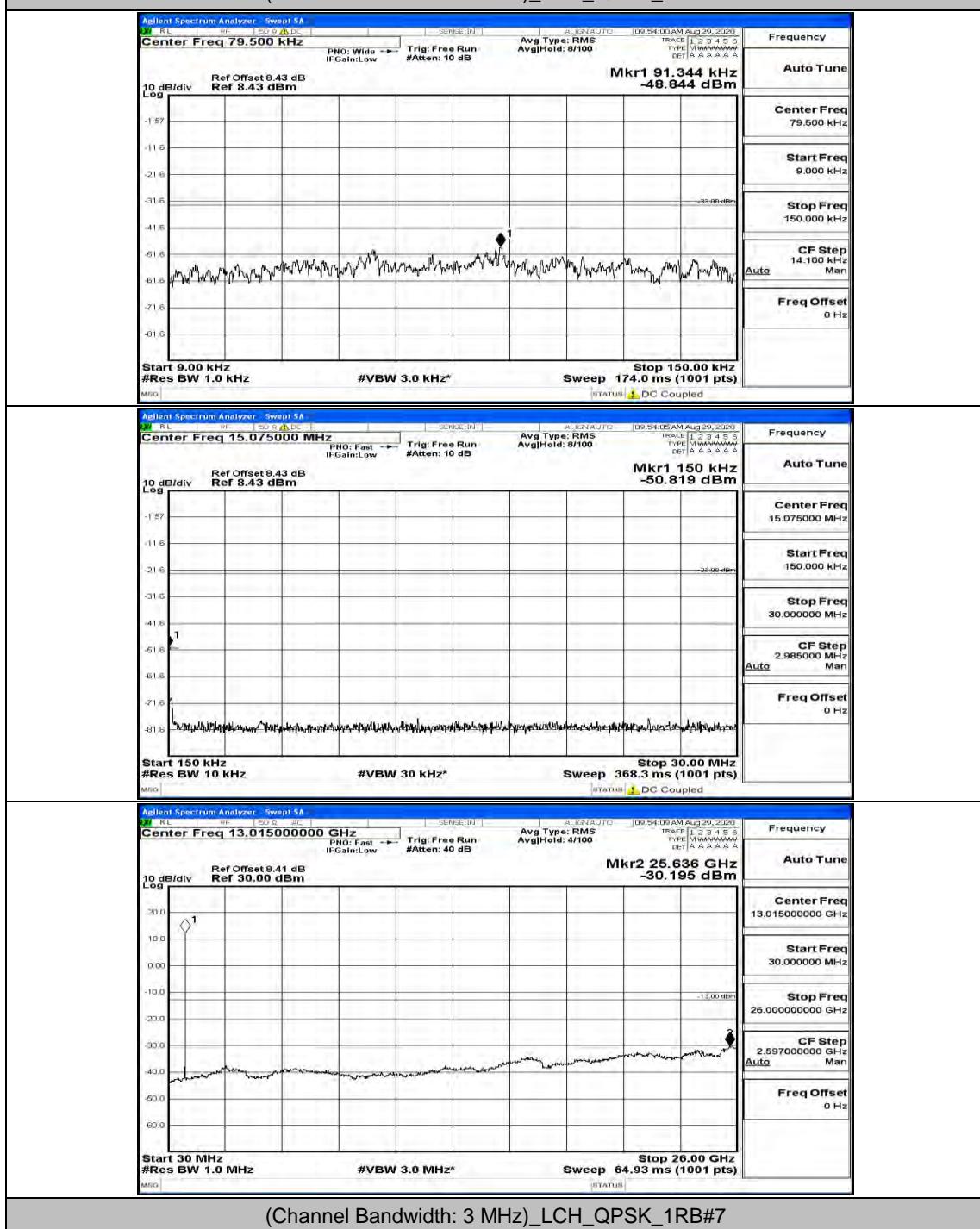
(Channel Bandwidth: 1.4 MHz)\_HCH\_16QAM\_1RB#3

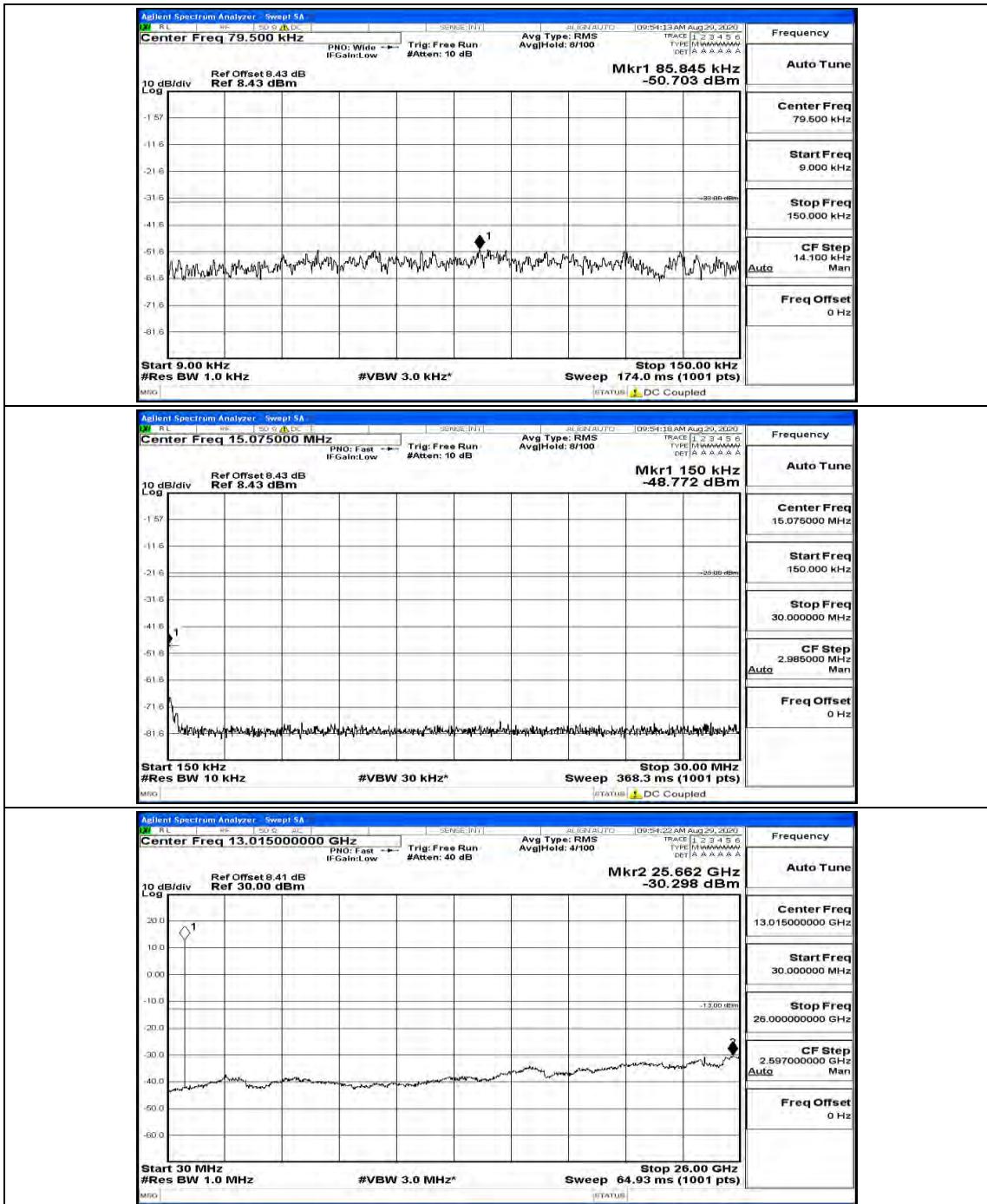




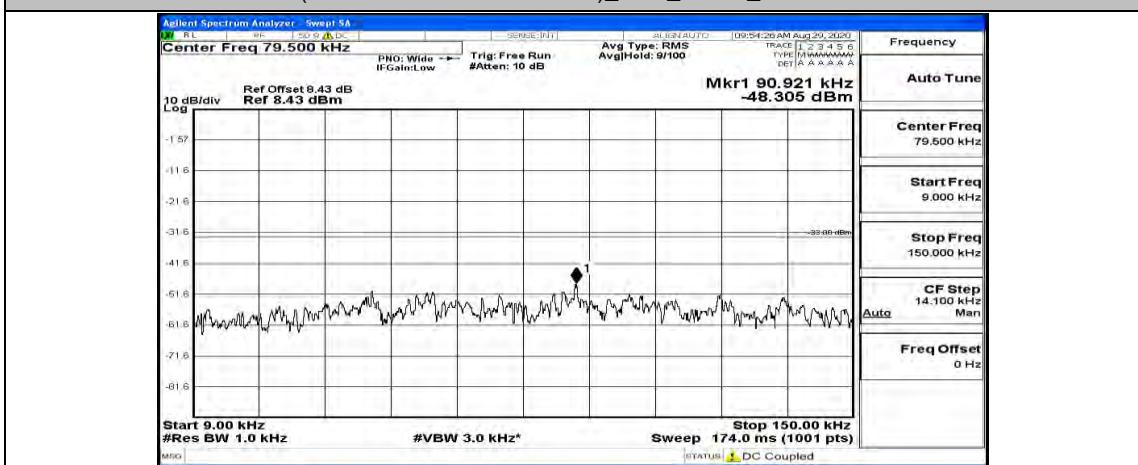
## Channel Bandwidth: 3 MHz

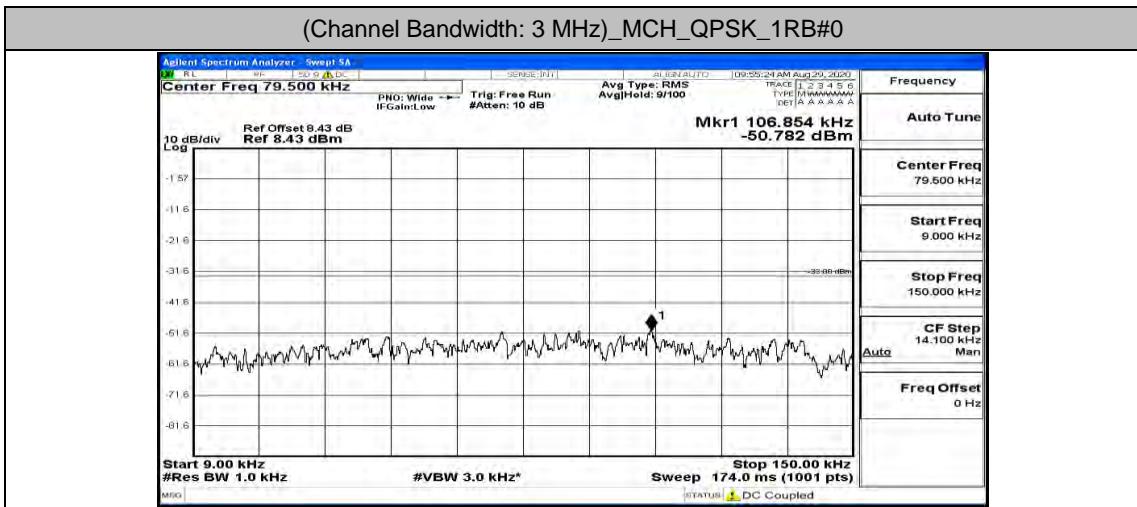
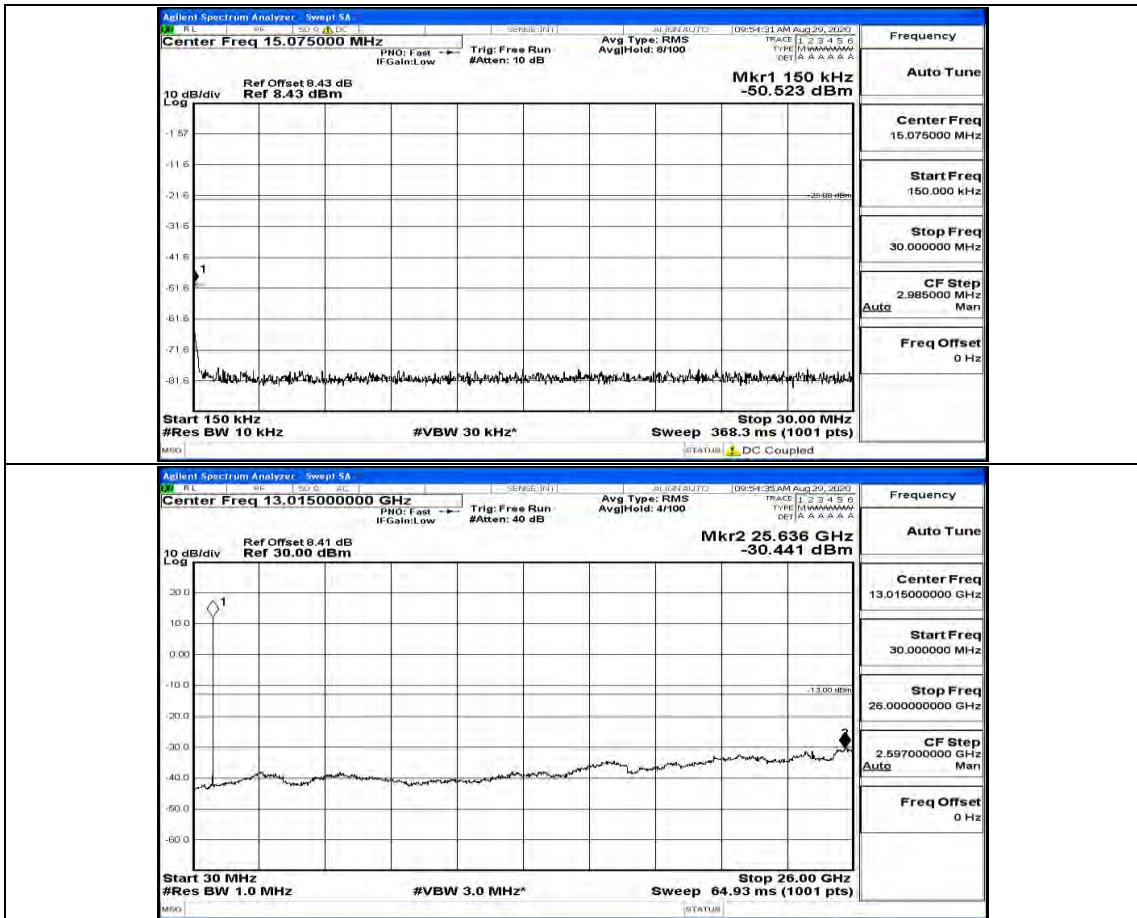
(Channel Bandwidth: 3 MHz)\_LCH\_QPSK\_1RB#

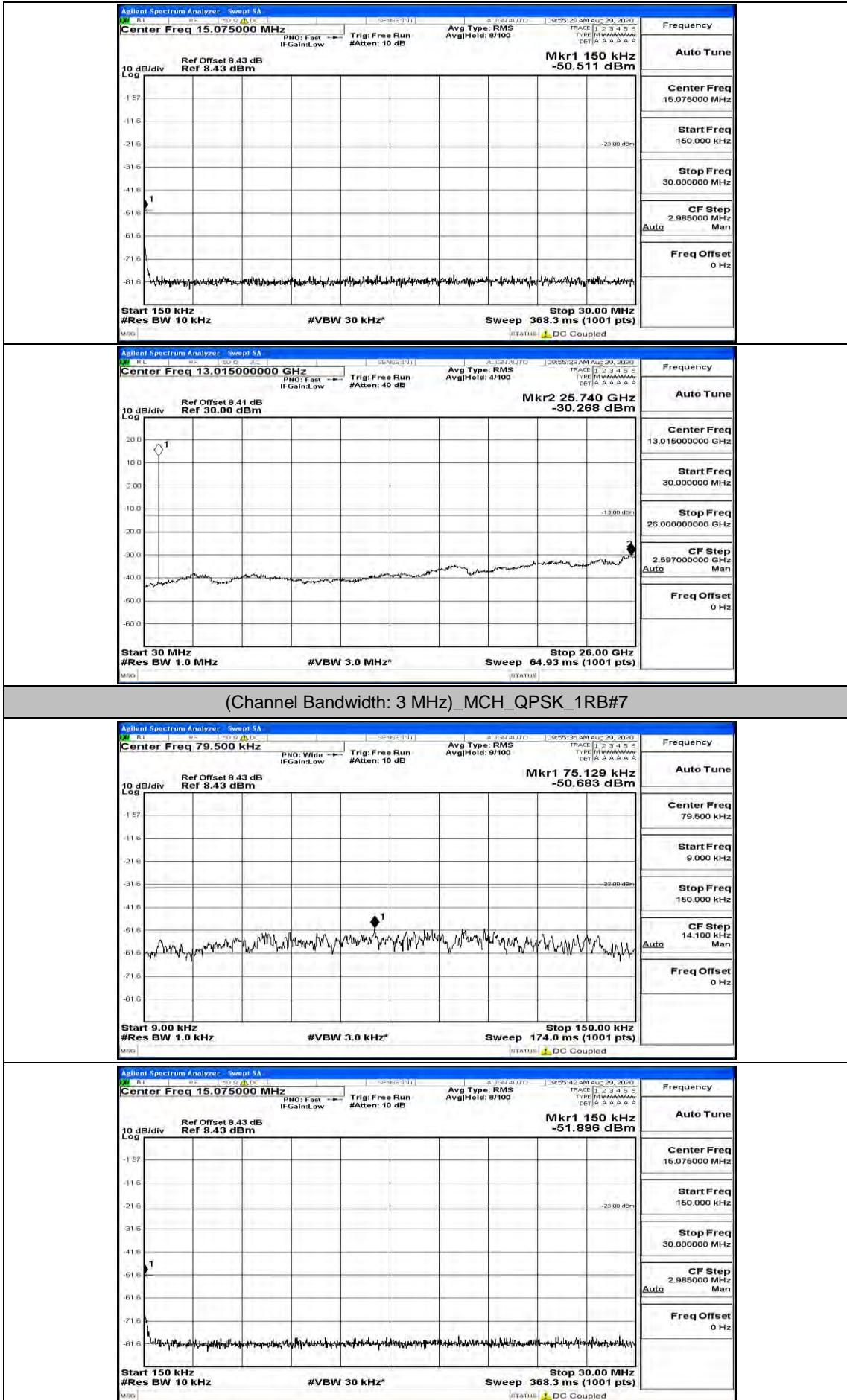




(Channel Bandwidth: 3 MHz) LCH QPSK 1RB#14

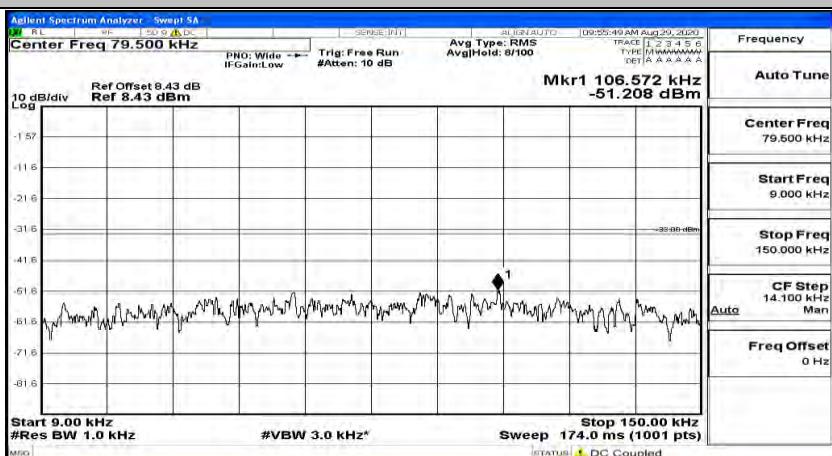




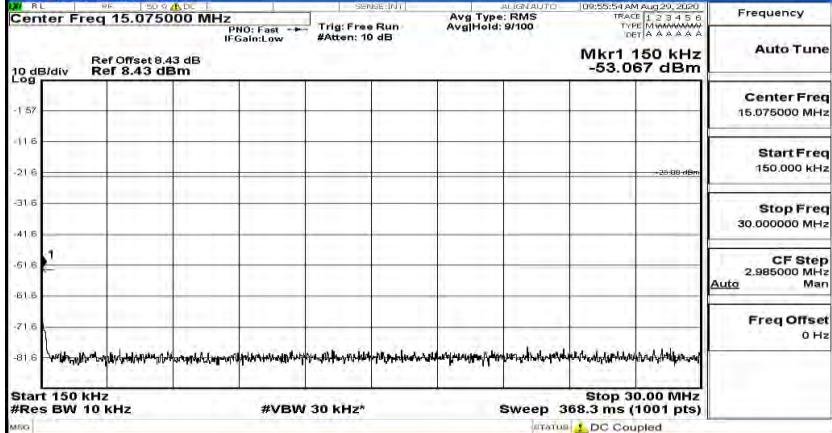




(Channel Bandwidth: 3 MHz)\_MCH\_QPSK\_1RB#14



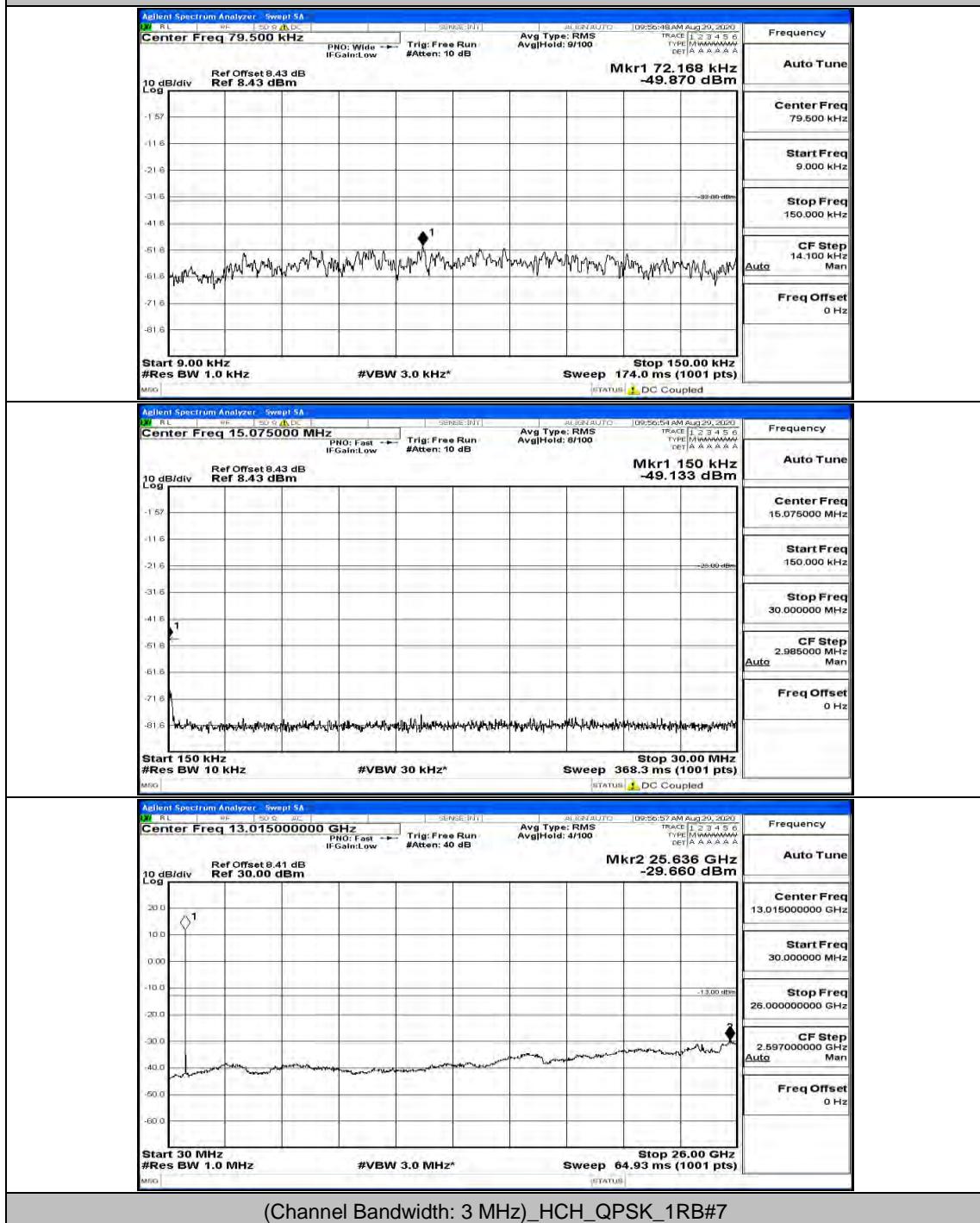
Agilent Spectrum Analyzer - Swept SA

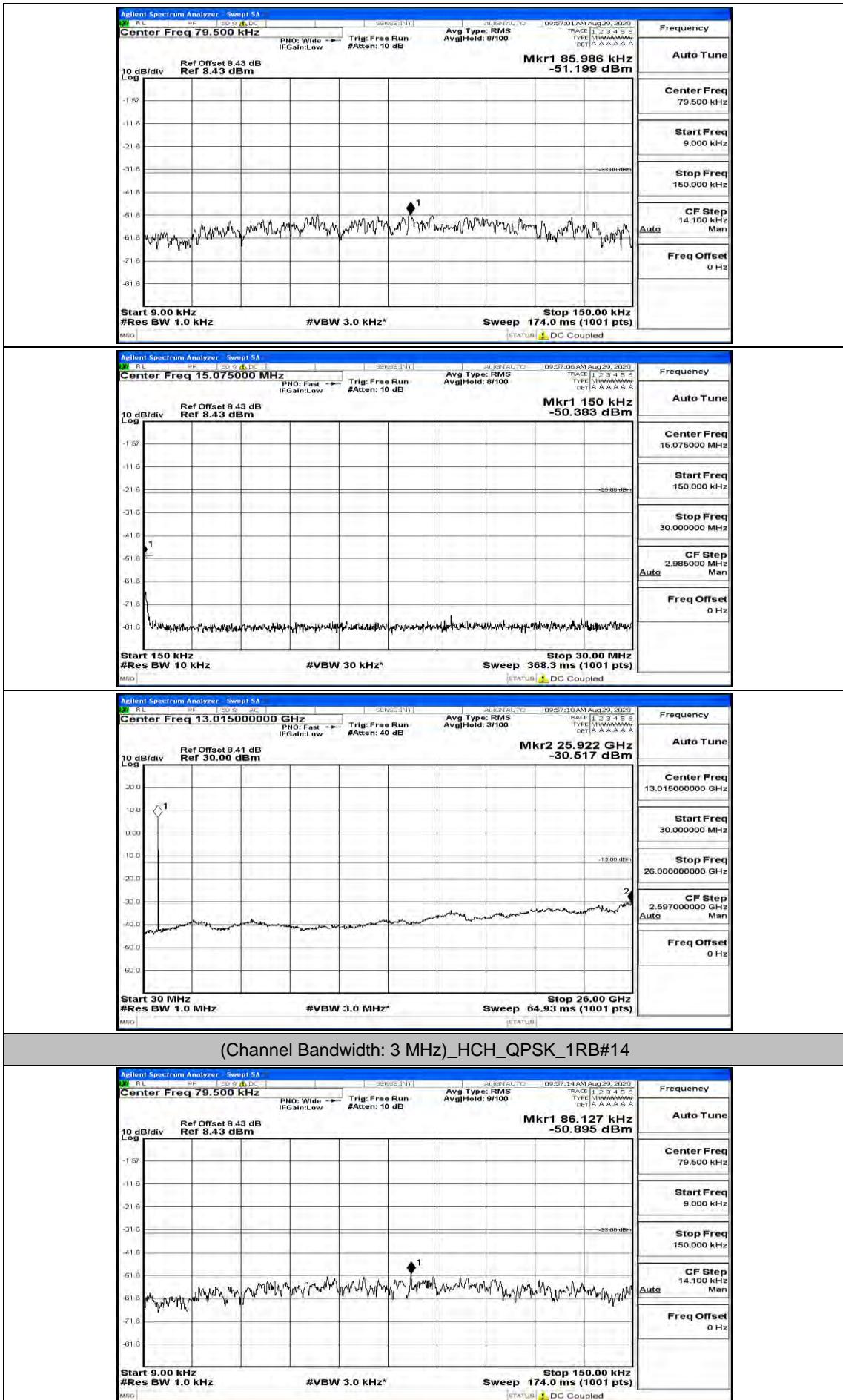


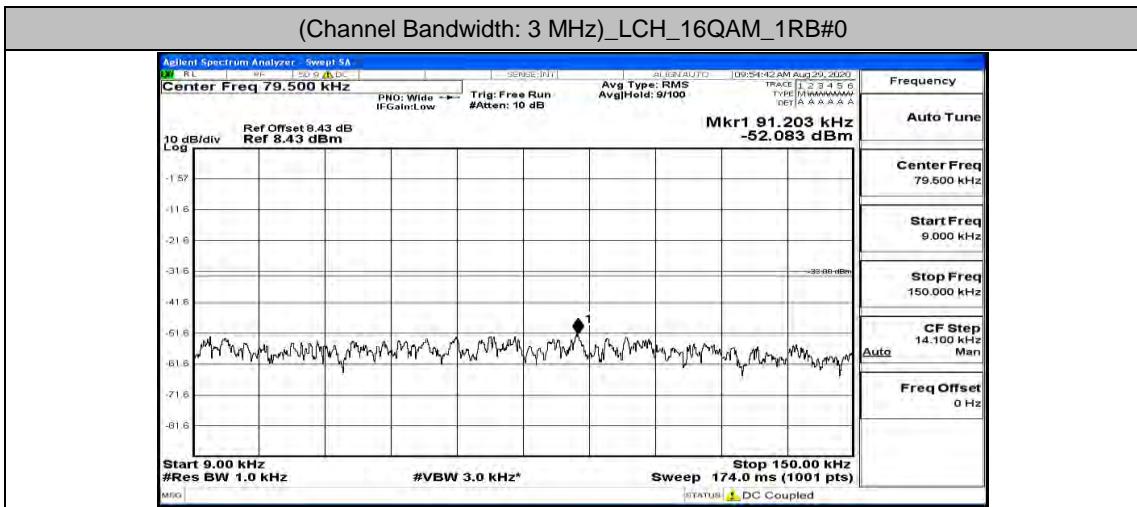
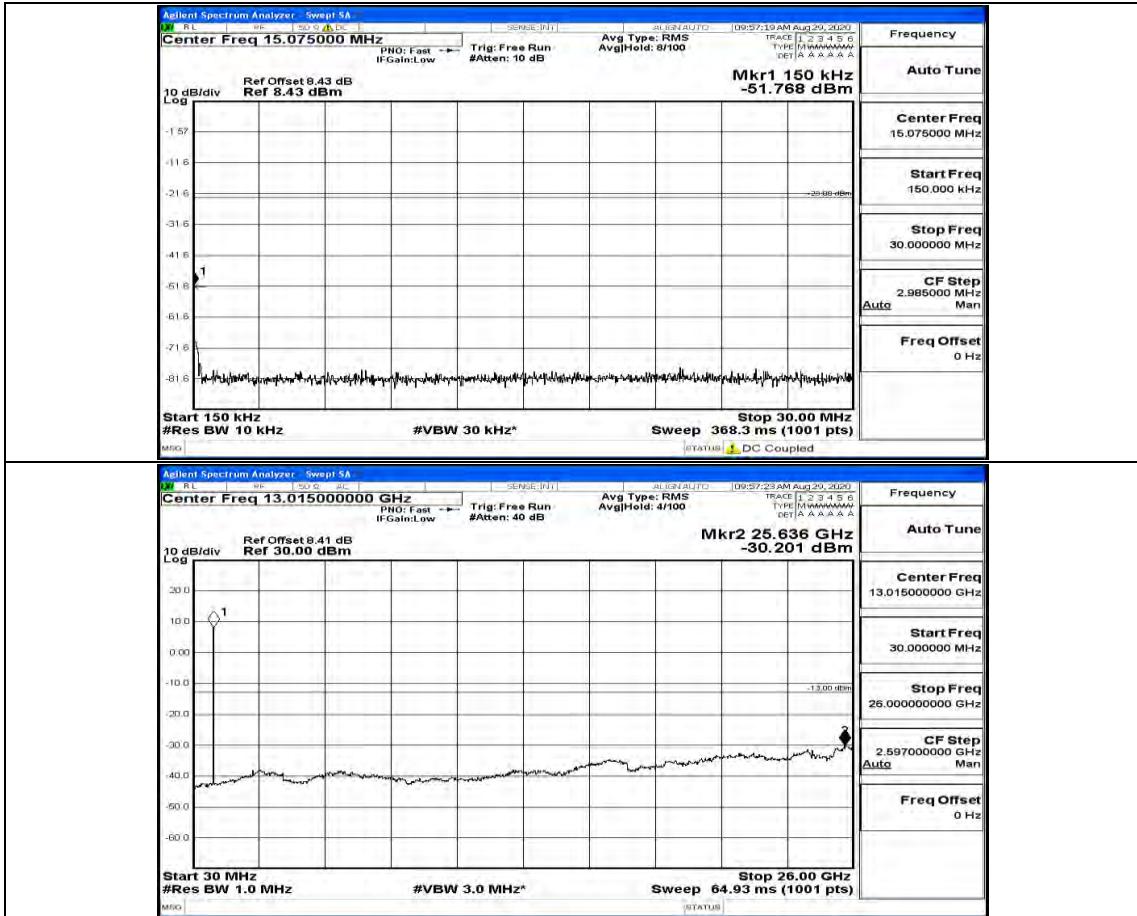
Agilent Spectrum Analyzer - Swept SA

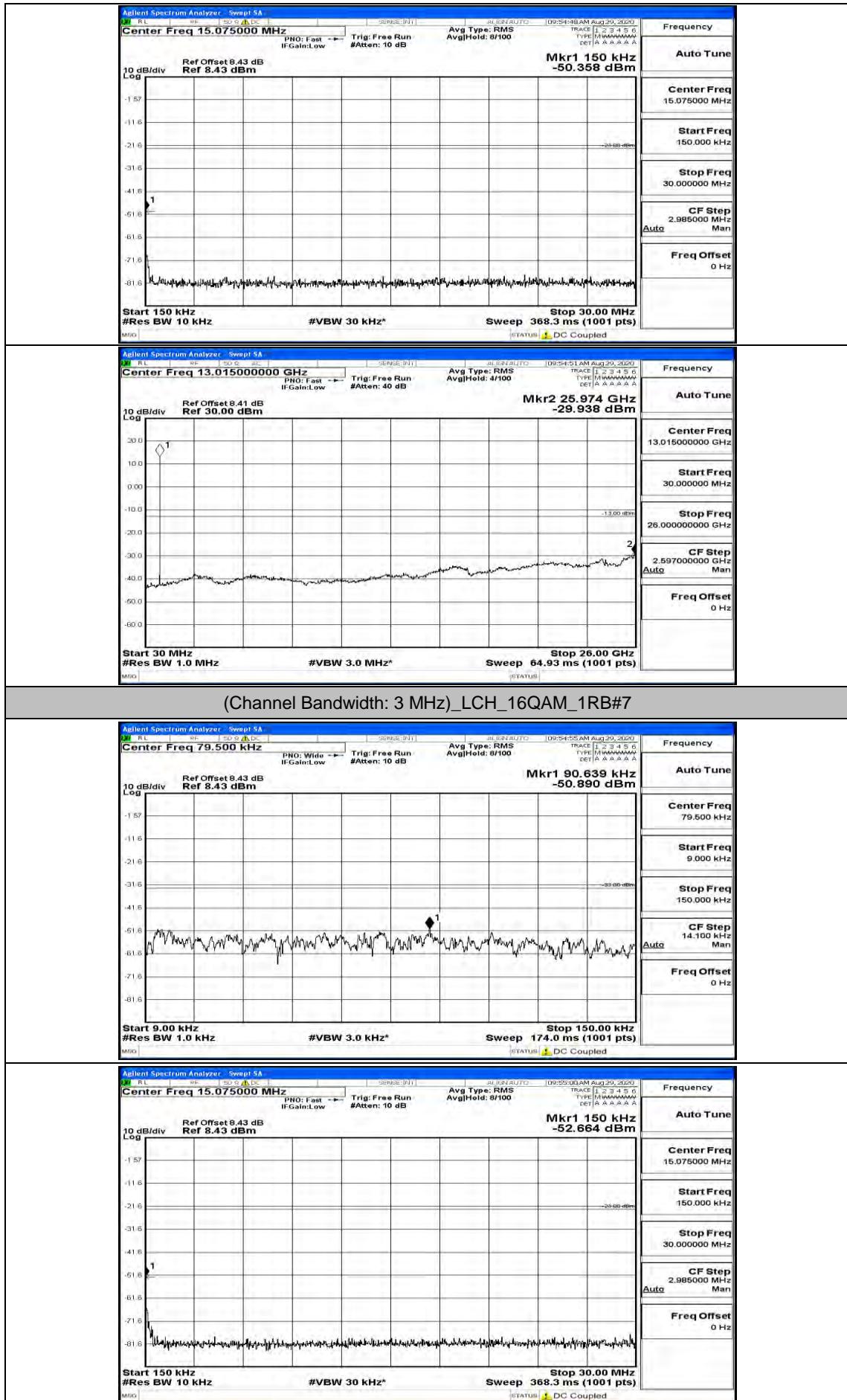


## (Channel Bandwidth: 3 MHz)\_HCH\_QPSK\_1RB#0



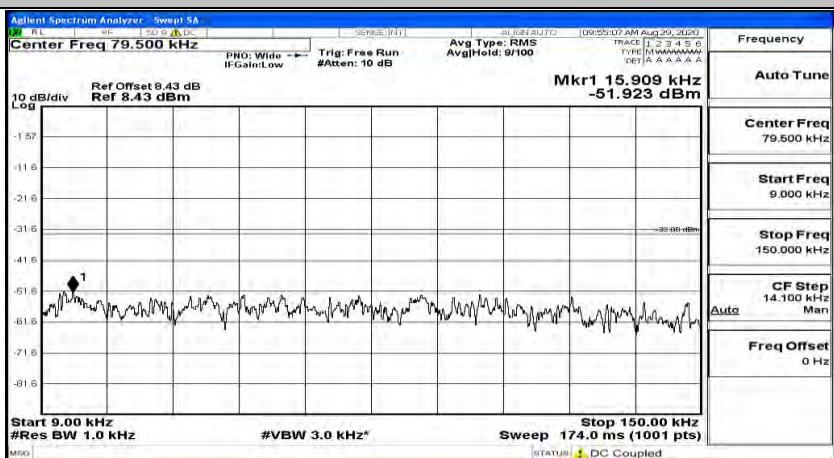








(Channel Bandwidth: 3 MHz)\_LCH\_16QAM\_1RB#14



Agilent Spectrum Analyzer - Sweep 5A

R L W 1000 10 DC SENSE(111) A1000 AUTO 09:55:13 AM Aug 20, 2020

Center Freq 15.075000 MHz

PHO: Fast IF Gain:Low Trig: Free Run #Atten: 10 dB

Avg Type: RMS Avg#Held: 6/100

Ref Offset 9.43 dB Ref 2.43 dBm Mkr1 150 kHz -51.137 dBm

10 dB/div Log

-1.57

-11.6

-21.6

-31.6

-41.6

-51.6

-61.6

-71.6

-81.6

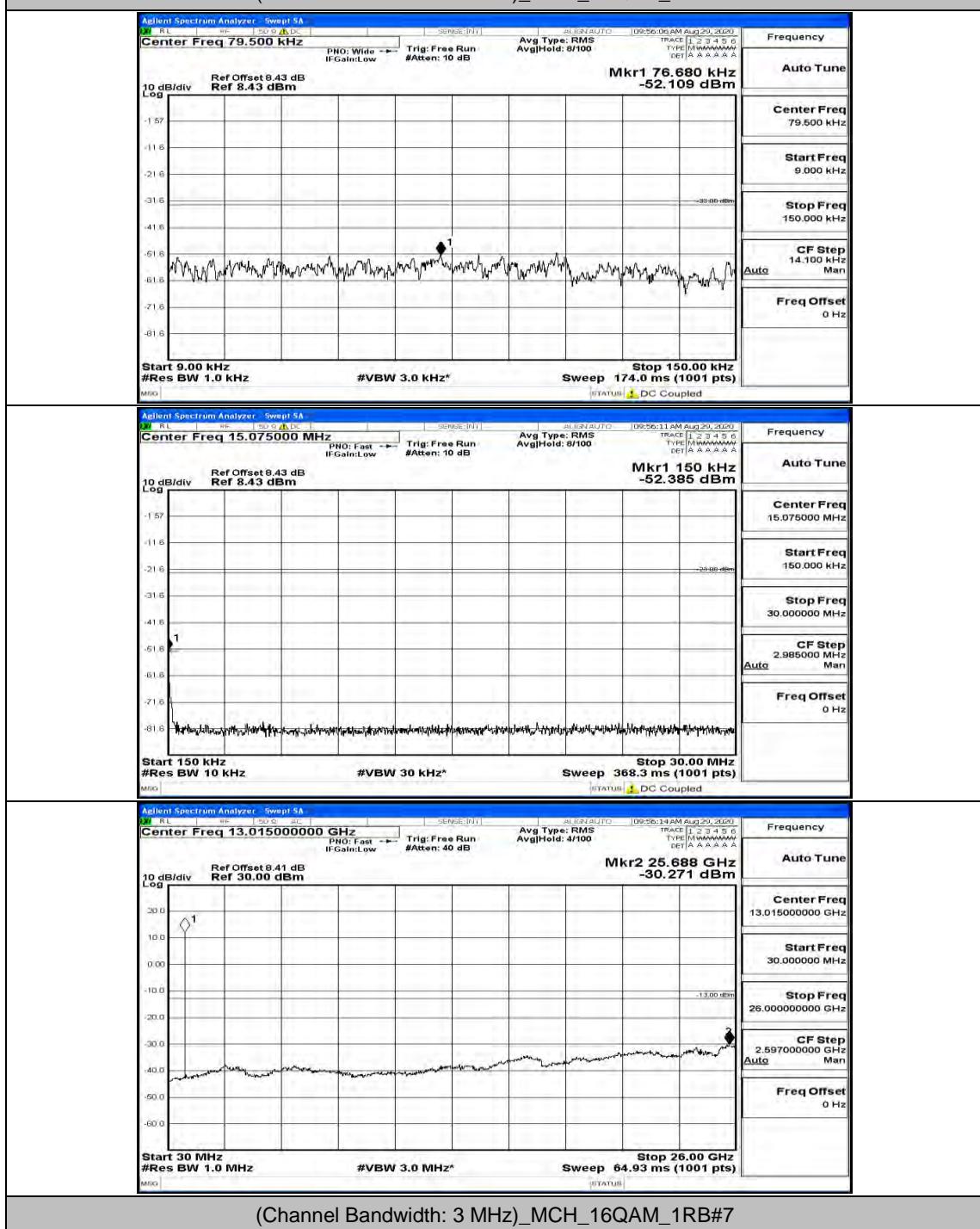
1

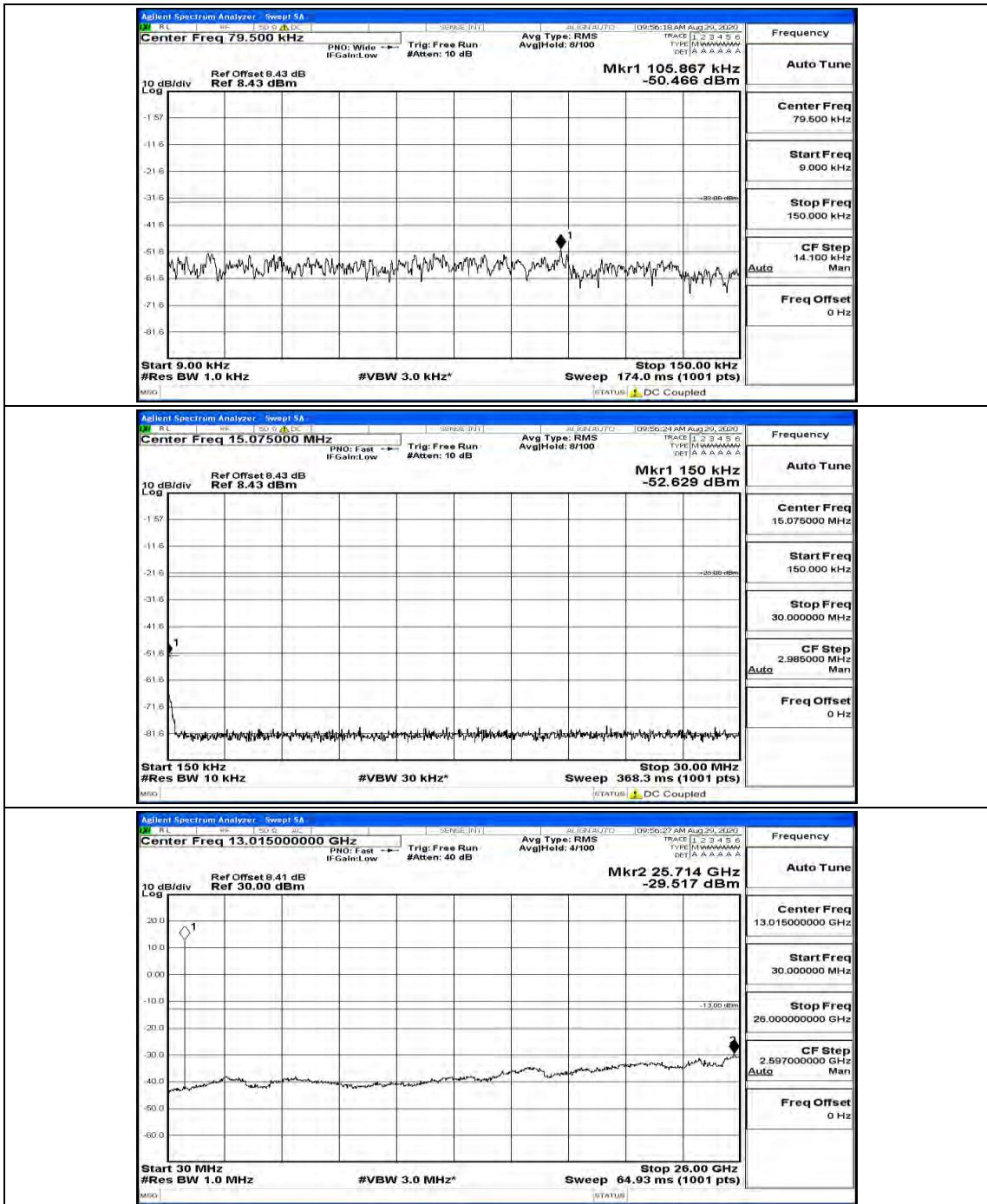
20 dB/div

Start 150 kHz #Res BW 10 kHz #VBW 30 kHz\* Stop 30.000 MHz Sweep 368.3 ms (1001 points)



(Channel Bandwidth: 3 MHz)\_MCH\_16QAM\_1RB#0





(Channel Bandwidth: 3 MHz)\_MCH\_16QAM\_1RB#14

