

## Appendix H: Test Data for LTE Band 17

**Product Name: 4G PHONE**

**Trade Mark: KAPSYS**

**Test Model: MiniVision2**

### Environmental Conditions

Temperature:	23.6 ° C
Relative Humidity:	54.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Diamond Lu
Supervised by:	Li Huan

### H.1 Conducted Output Power

Conducted Output Power Test Result (Channel Bandwidth: 5 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	23.61	22.76	PASS
		1	12	23.86	23.02	PASS
		1	24	24.26	23.46	PASS
		12	0	22.87	21.81	PASS
		12	6	23.09	22.03	PASS
		12	13	23.36	21.85	PASS
		25	0	22.98	22.16	PASS
	MCH	1	0	24.18	23.94	PASS
		1	12	24.40	24.15	PASS
		1	24	23.12	22.63	PASS
		12	0	23.47	22.10	PASS
		12	6	23.62	22.72	PASS
		12	13	23.41	22.51	PASS
		25	0	23.67	22.78	PASS
	HCH	1	0	24.55	23.33	PASS
		1	12	24.21	23.28	PASS
		1	24	24.04	23.62	PASS
		12	0	23.54	22.46	PASS
		12	6	23.90	22.82	PASS
		12	13	23.90	22.79	PASS
		25	0	23.89	22.88	PASS

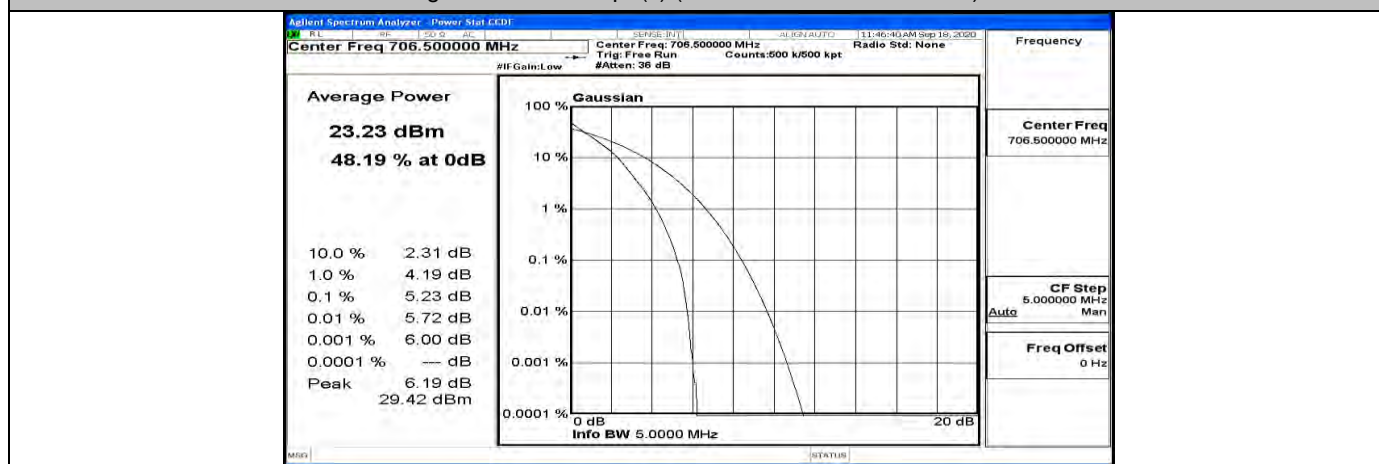
Conducted Output Power Test Result (Channel Bandwidth: 10 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	23.65	23.49	PASS
		1	24	24.35	24.08	PASS
		1	49	23.73	23.03	PASS
		25	0	23.01	22.16	PASS
		25	12	23.57	22.10	PASS
		25	25	23.41	22.47	PASS
		50	0	23.43	22.12	PASS
	MCH	1	0	24.00	24.04	PASS
		1	24	24.63	24.55	PASS
		1	49	24.91	24.24	PASS
		25	0	23.27	21.99	PASS
		25	12	23.76	22.75	PASS
		25	25	23.49	22.58	PASS
		50	0	23.53	22.60	PASS
	HCH	1	0	24.05	23.20	PASS
		1	24	24.51	23.78	PASS
		1	49	24.82	24.13	PASS
		25	0	23.52	22.13	PASS
		25	12	23.69	22.67	PASS
		25	25	23.93	22.97	PASS
		50	0	23.73	22.70	PASS

## H.2 Peak-to-Average Ratio

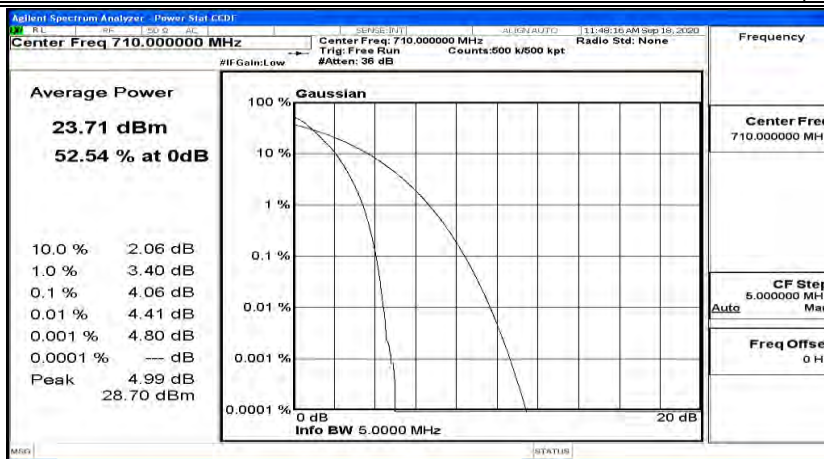
Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.23	<13	PASS
	MCH	4.06	<13	PASS
	HCH	3.53	<13	PASS
16QAM	LCH	5.92	<13	PASS
	MCH	4.78	<13	PASS
	HCH	4.07	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	4.49	<13	PASS
	MCH	4.38	<13	PASS
	HCH	4.45	<13	PASS
16QAM	LCH	5.38	<13	PASS
	MCH	5.09	<13	PASS
	HCH	5.1	<13	PASS

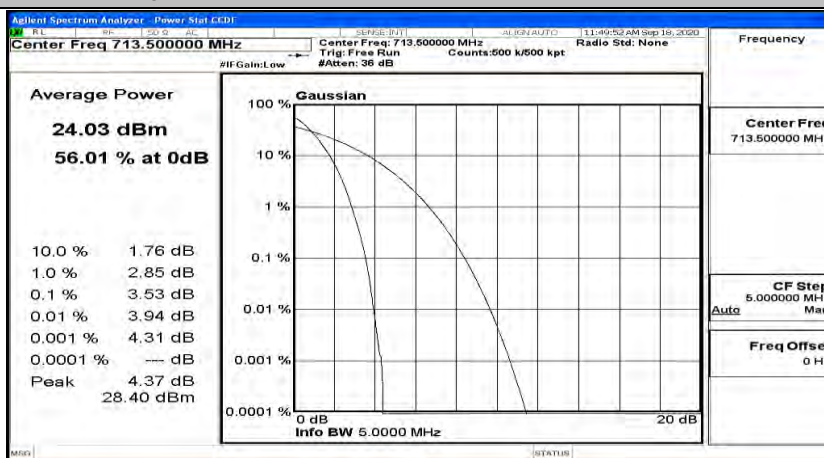
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)\_LCH\_QPSK



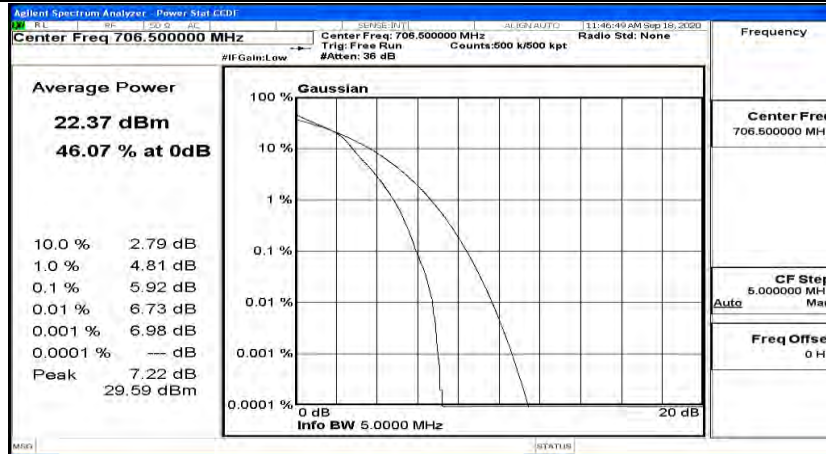
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)\_MCH\_QPSK



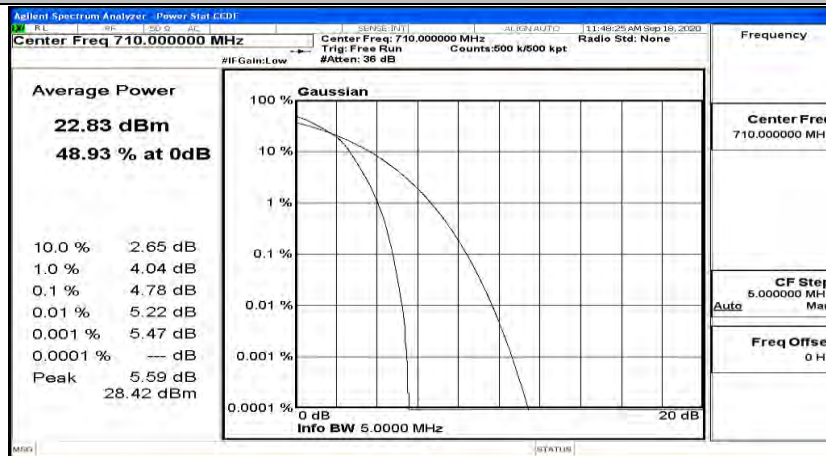
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)\_HCH\_QPSK



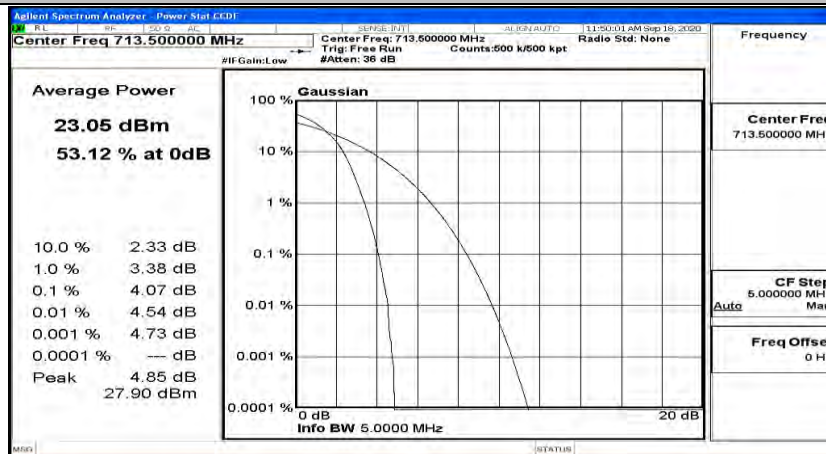
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)\_LCH\_16QAM



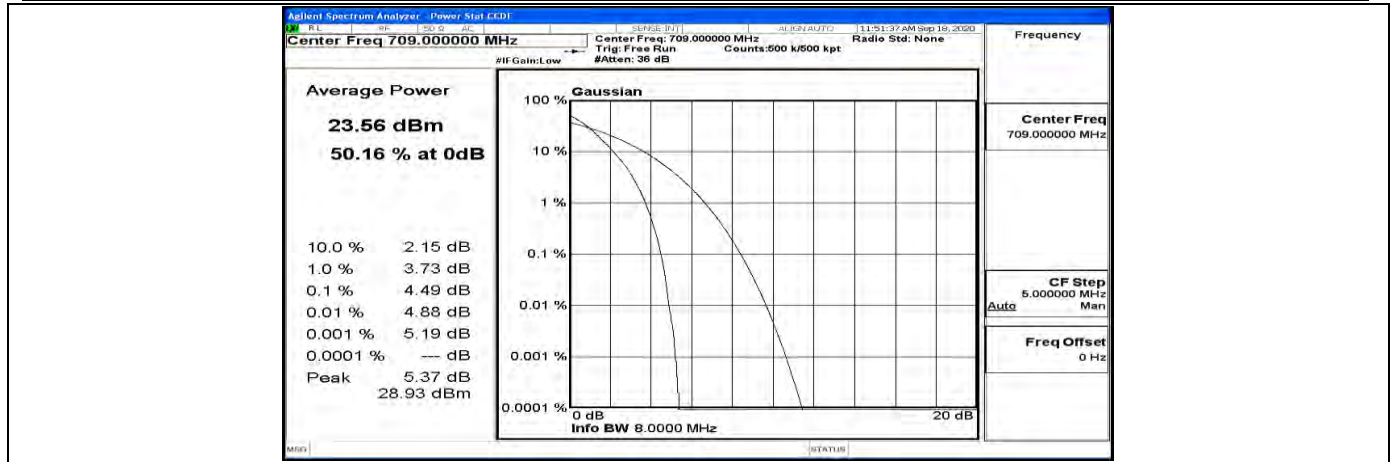
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)\_MCH\_16QAM



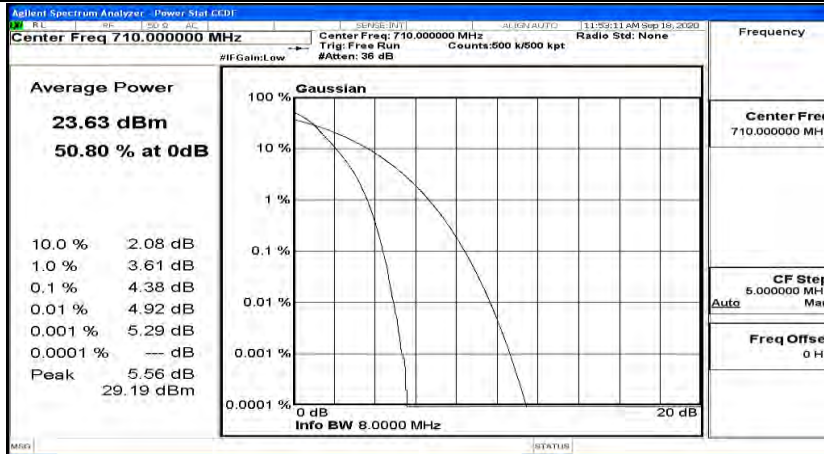
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)\_HCH\_16QAM



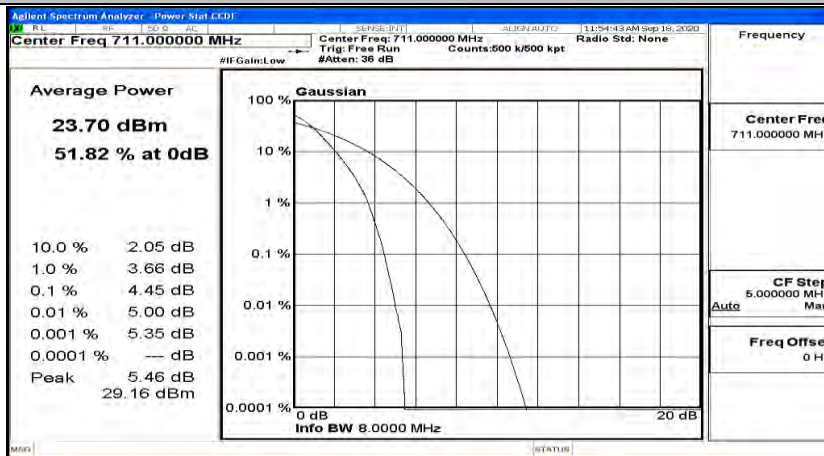
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)\_LCH\_QPSK



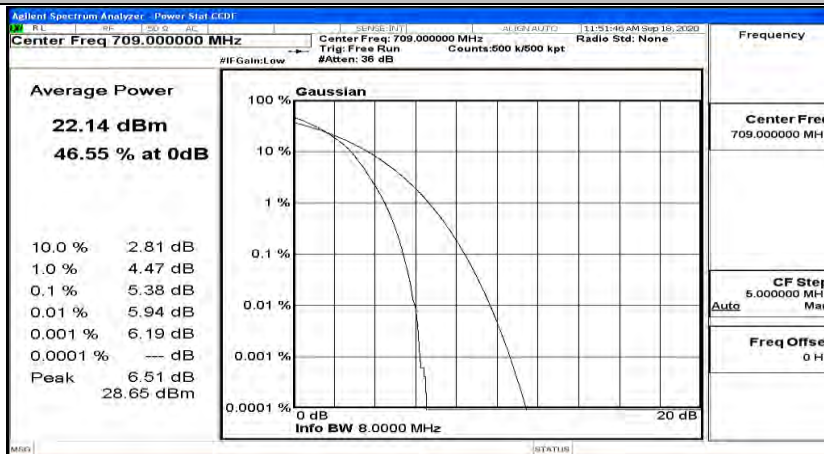
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)\_MCH\_QPSK



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

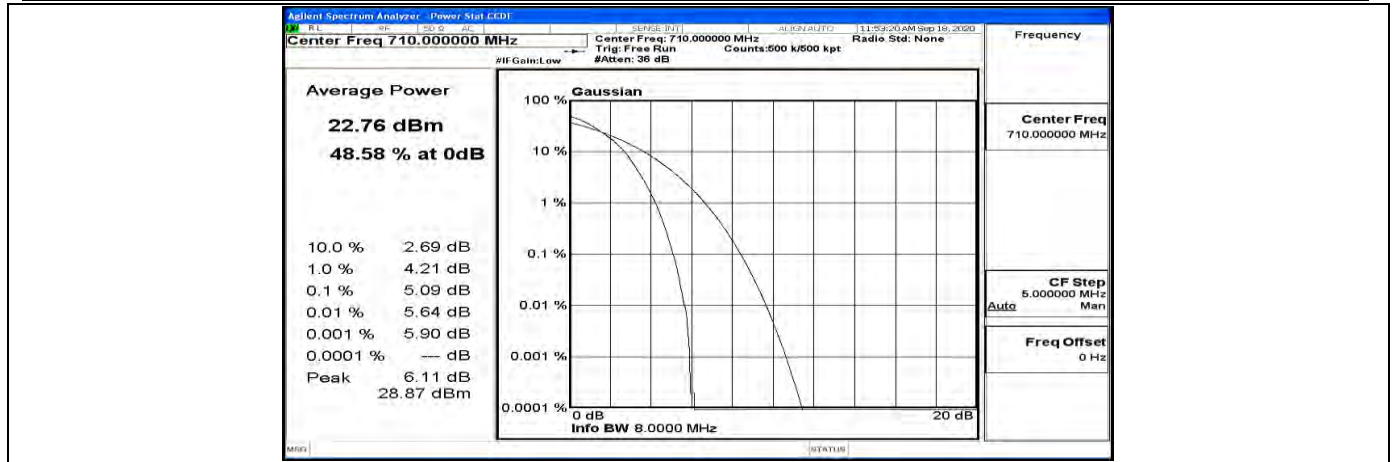


## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)\_LCH\_16QAM



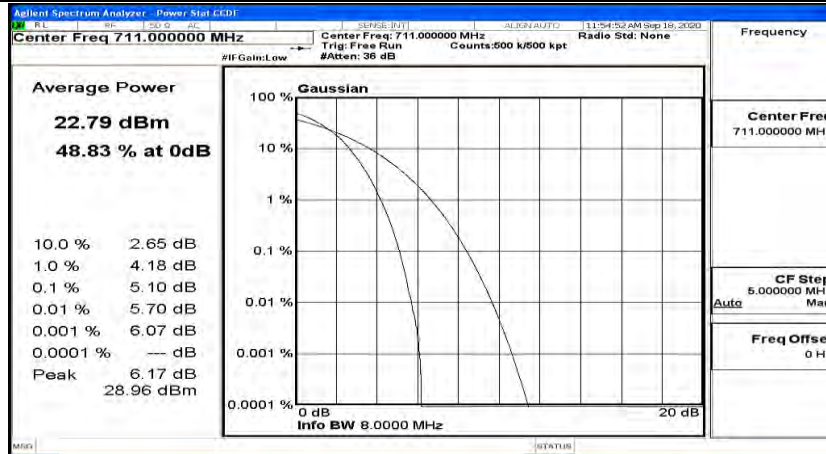
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)\_MCH\_16QAM







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

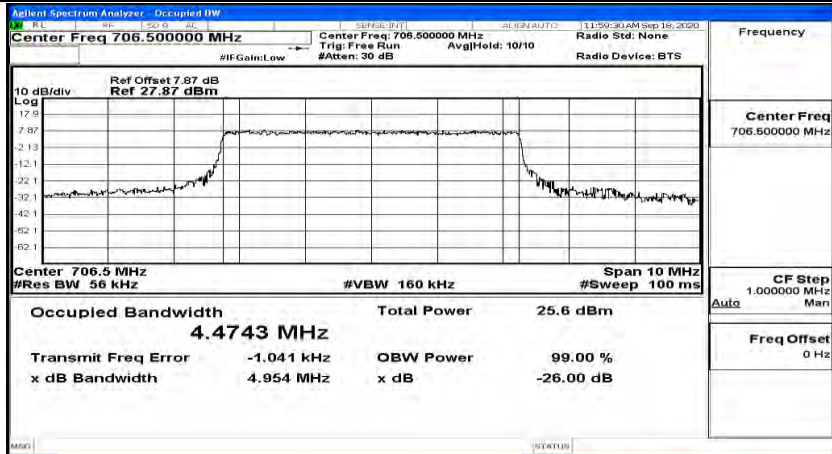


### H.3 26dB Bandwidth and Occupied Bandwidth

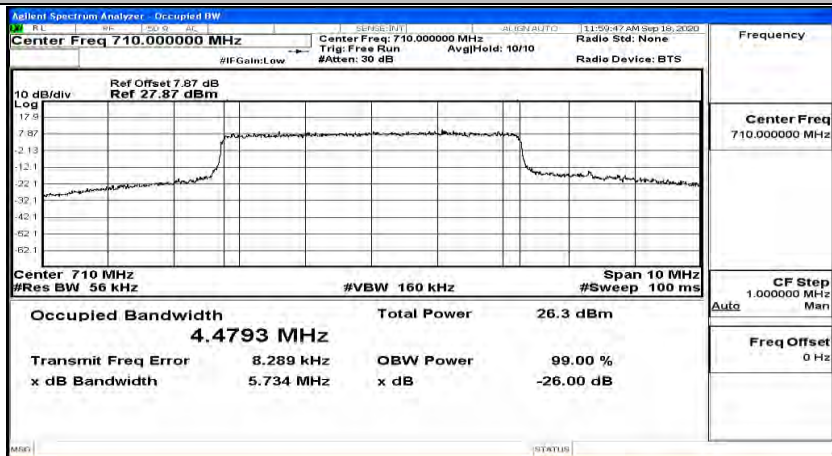
EBW & OBW Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	4.4743	4.954	PASS
	MCH	4.4793	5.734	PASS
	HCH	4.9912	8.388	PASS
16QAM	LCH	4.4768	4.789	PASS
	MCH	4.4675	5.365	PASS
	HCH	4.7114	8.164	PASS

EBW & OBW Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	8.9437	9.854	PASS
	MCH	8.9226	10.07	PASS
	HCH	8.9254	10.01	PASS
16QAM	LCH	8.9475	9.632	PASS
	MCH	8.9363	9.514	PASS
	HCH	8.9162	9.649	PASS

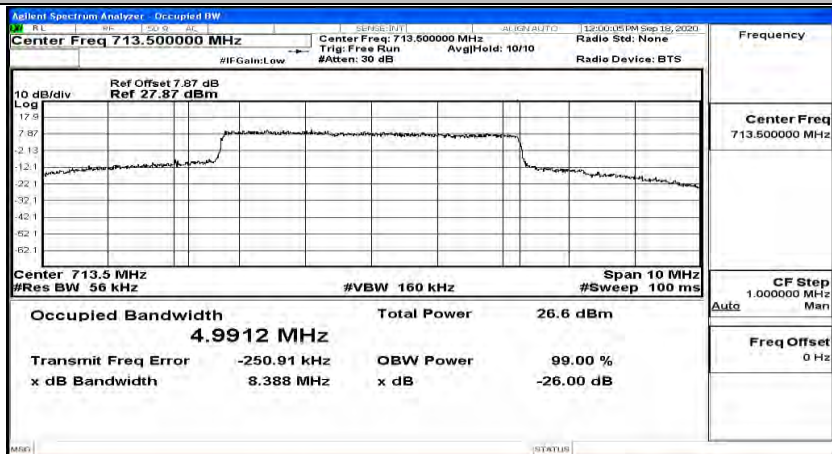
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 5 MHz)\_LCH\_QPSK



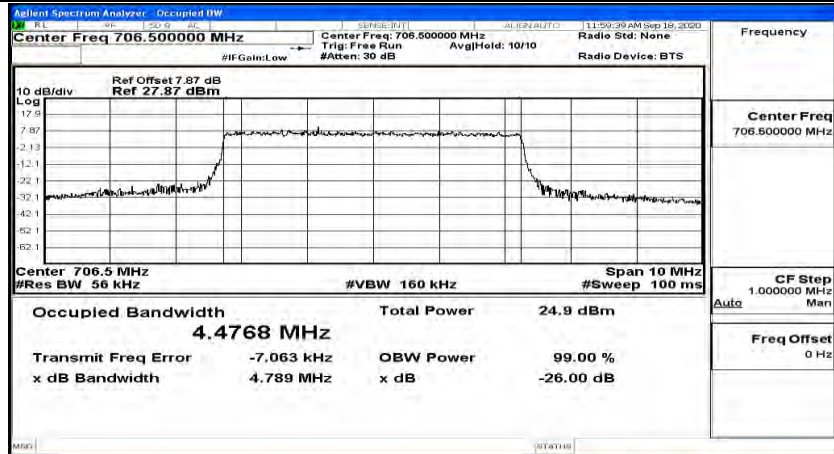
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 5 MHz)\_MCH\_QPSK



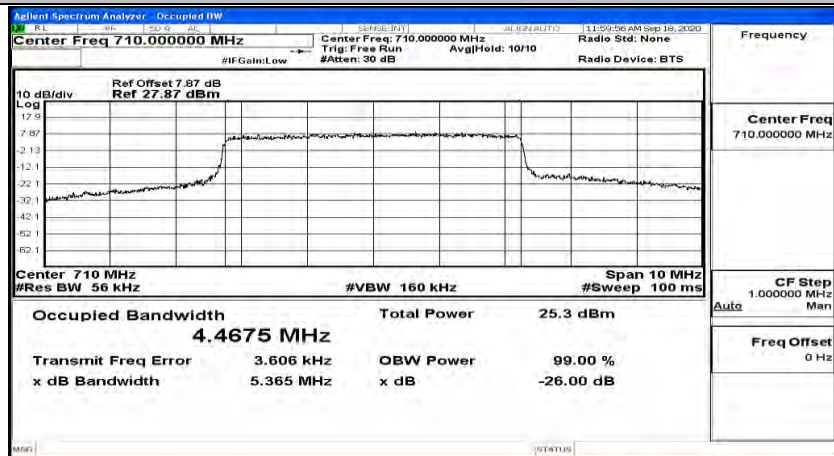
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 5 MHz)\_HCH\_QPSK



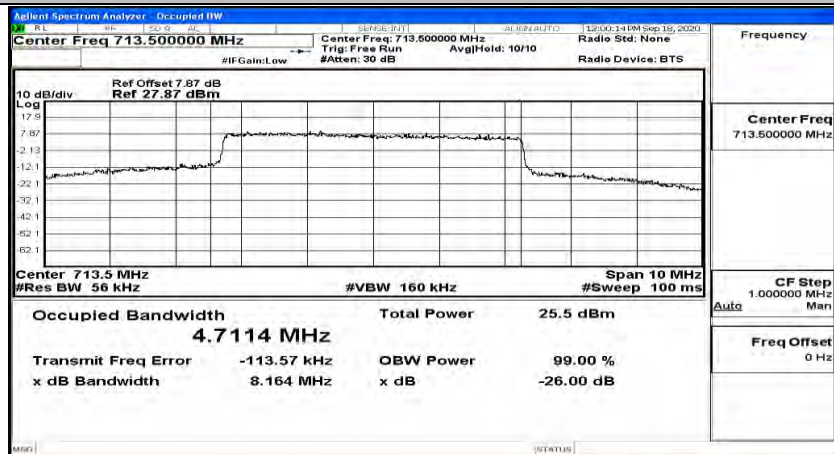
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 5 MHz)\_LCH\_16QAM



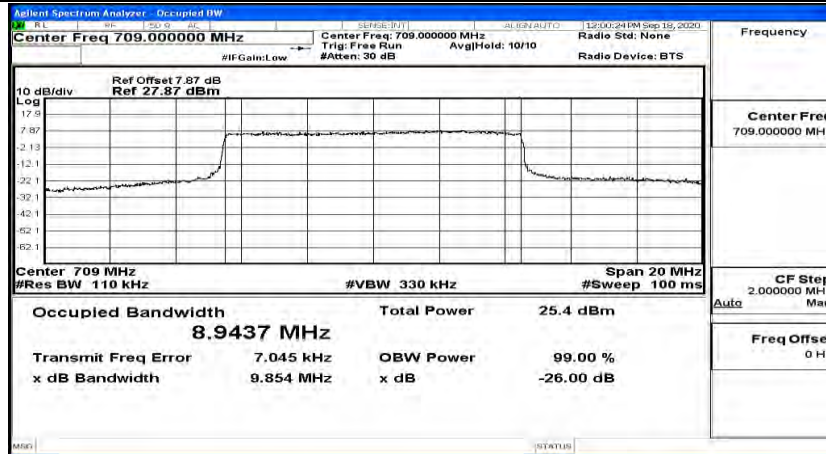
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 5 MHz)\_MCH\_16QAM



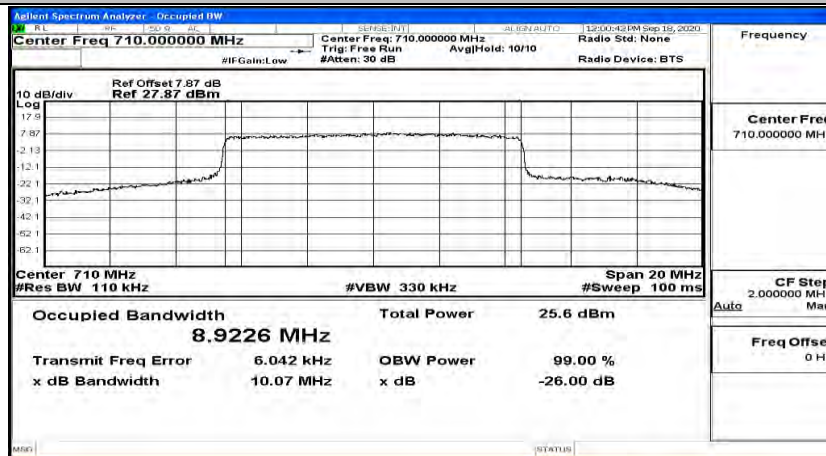
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 5 MHz)\_HCH\_16QAM



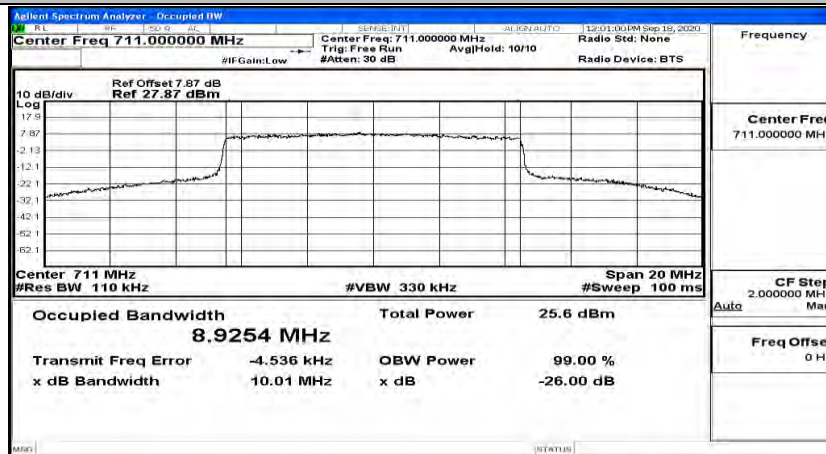
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 10 MHz)\_LCH\_QPSK



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

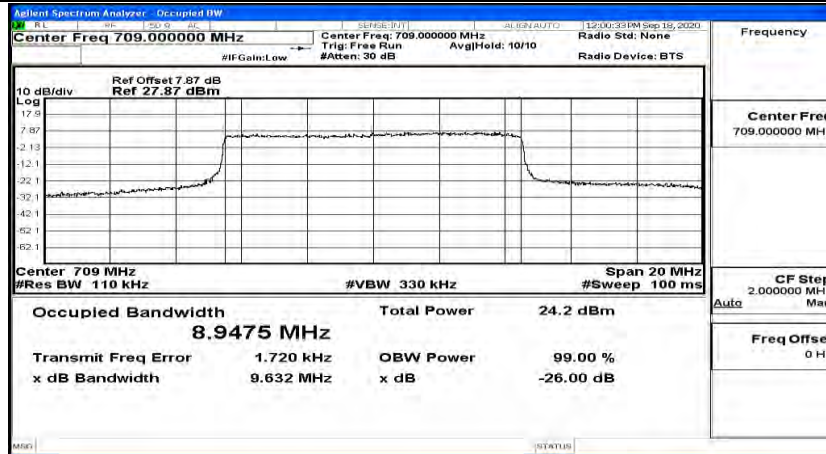


## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 10 MHz)\_HCH\_QPSK

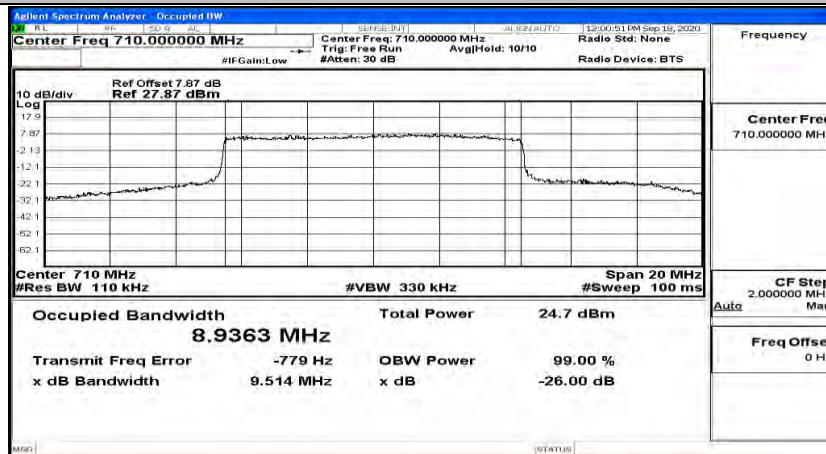




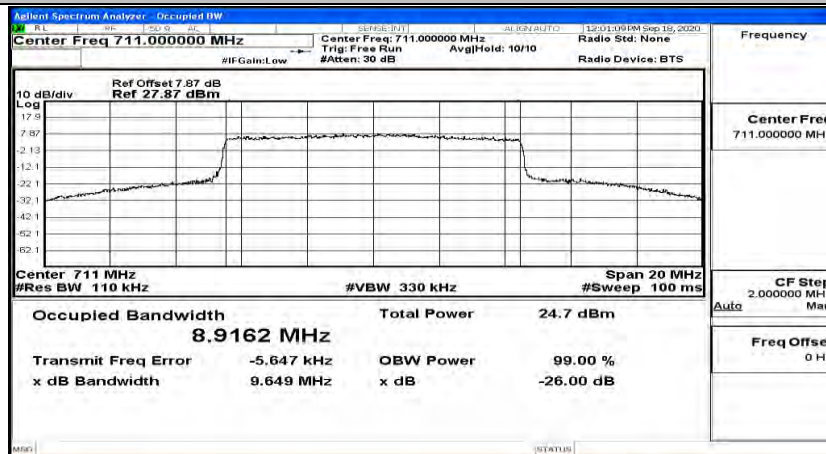
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 10 MHz)\_LCH\_16QAM



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

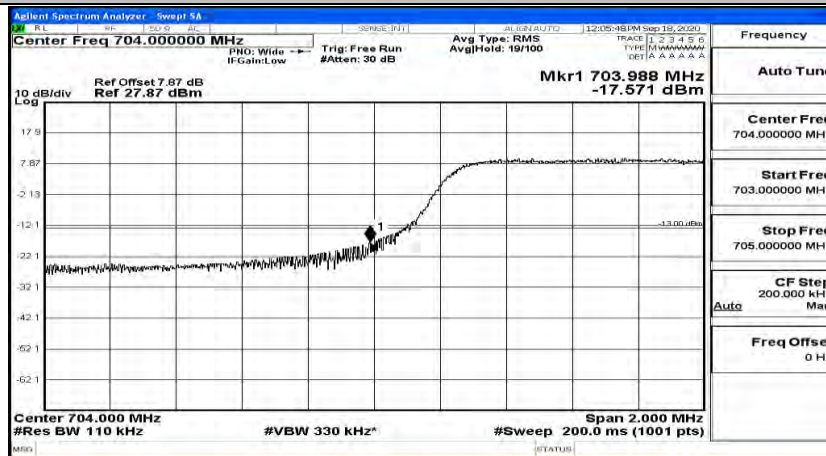


## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 10 MHz)\_HCH\_16QAM

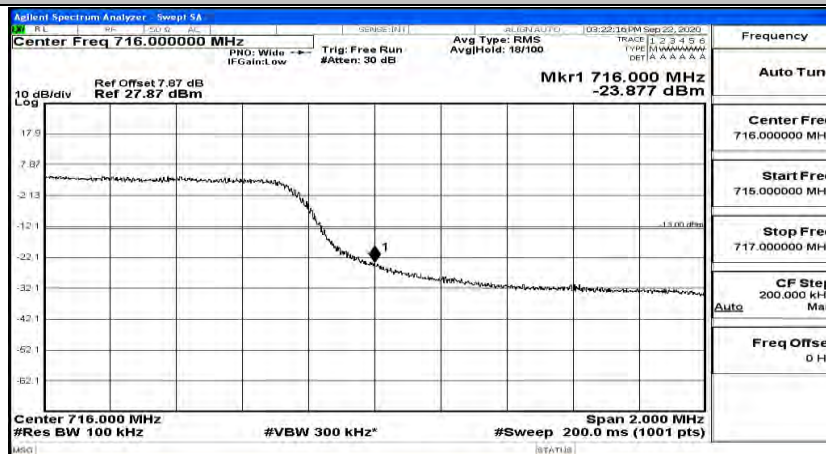


## H.4 Band Edge

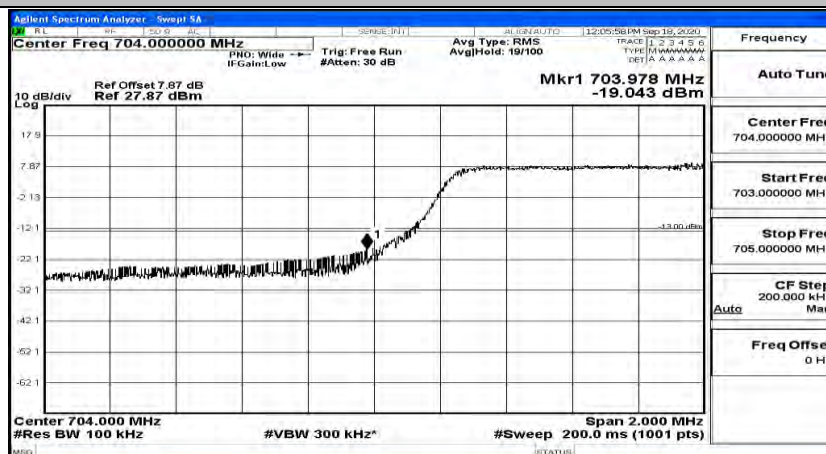
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz) \_LCH\_QPSK



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

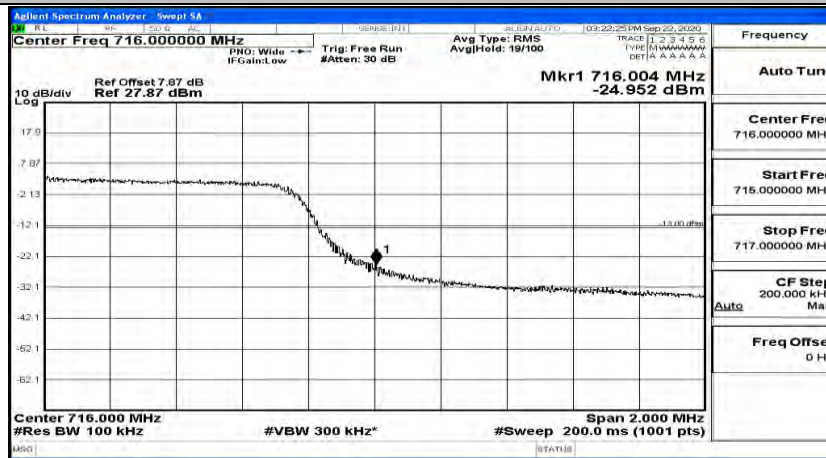


Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz) \_LCH\_16QAM

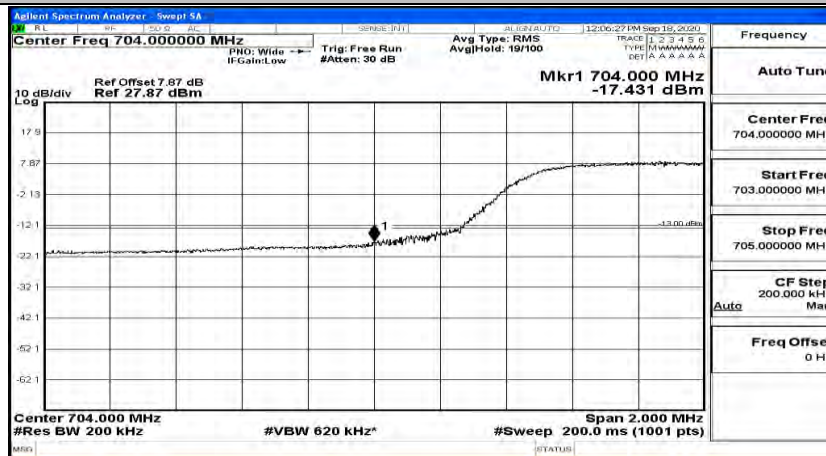




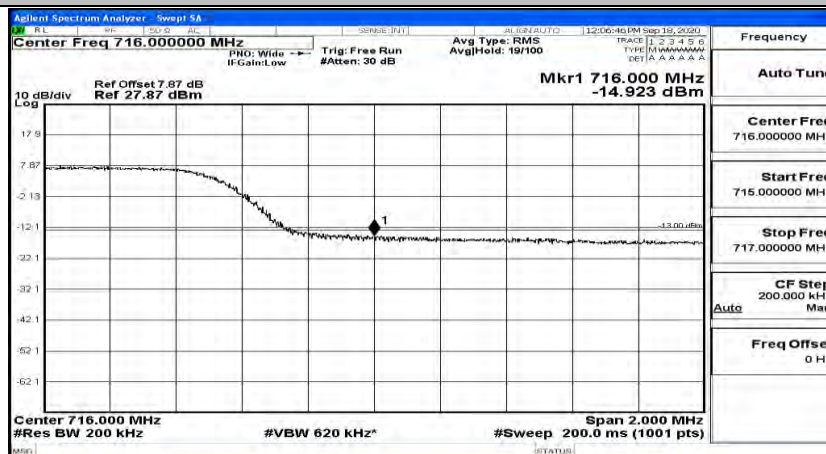
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)\_HCH\_16QAM



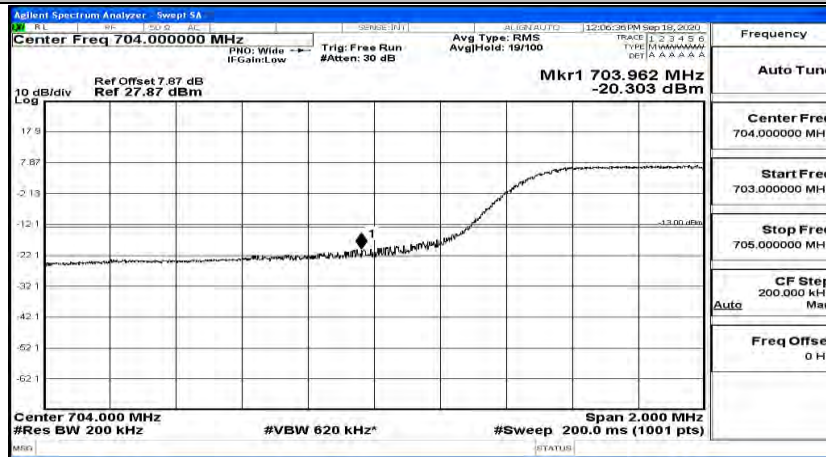
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)\_LCH\_QPSK



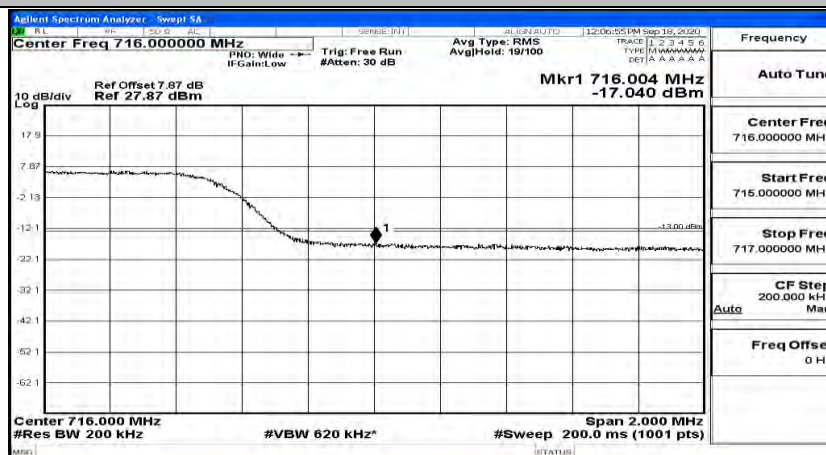
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)\_HCH\_QPSK



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



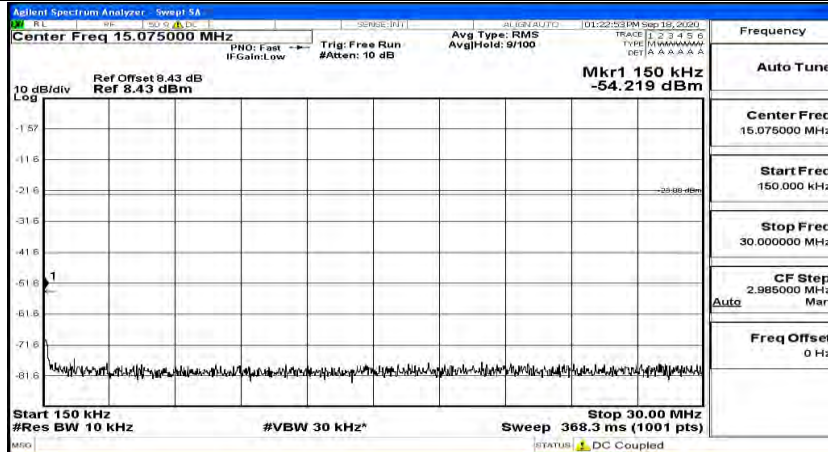
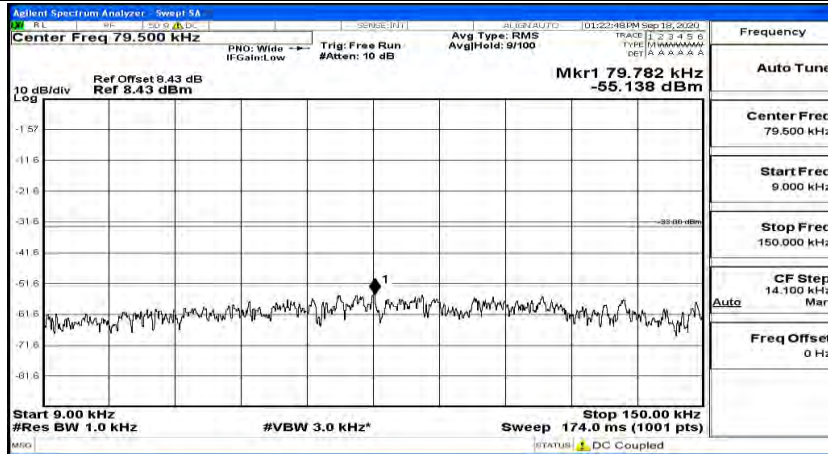
## Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)\_HCH\_16QAM



## H.5 Conducted Spurious Emission

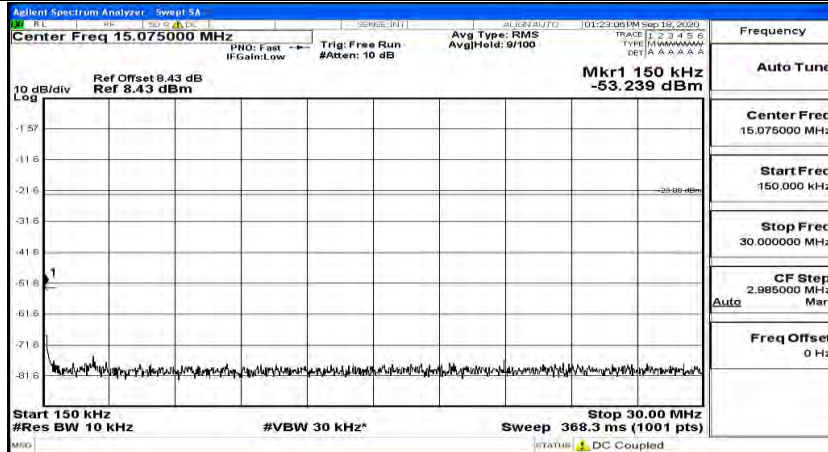
### Channel Bandwidth: 5 MHz

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

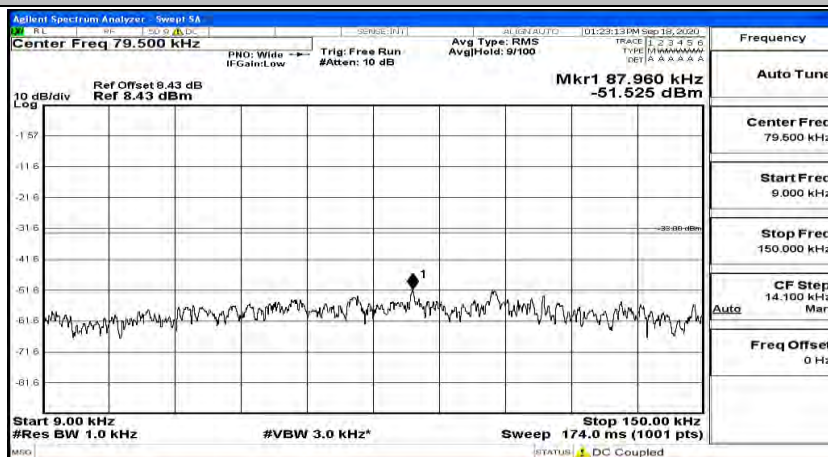


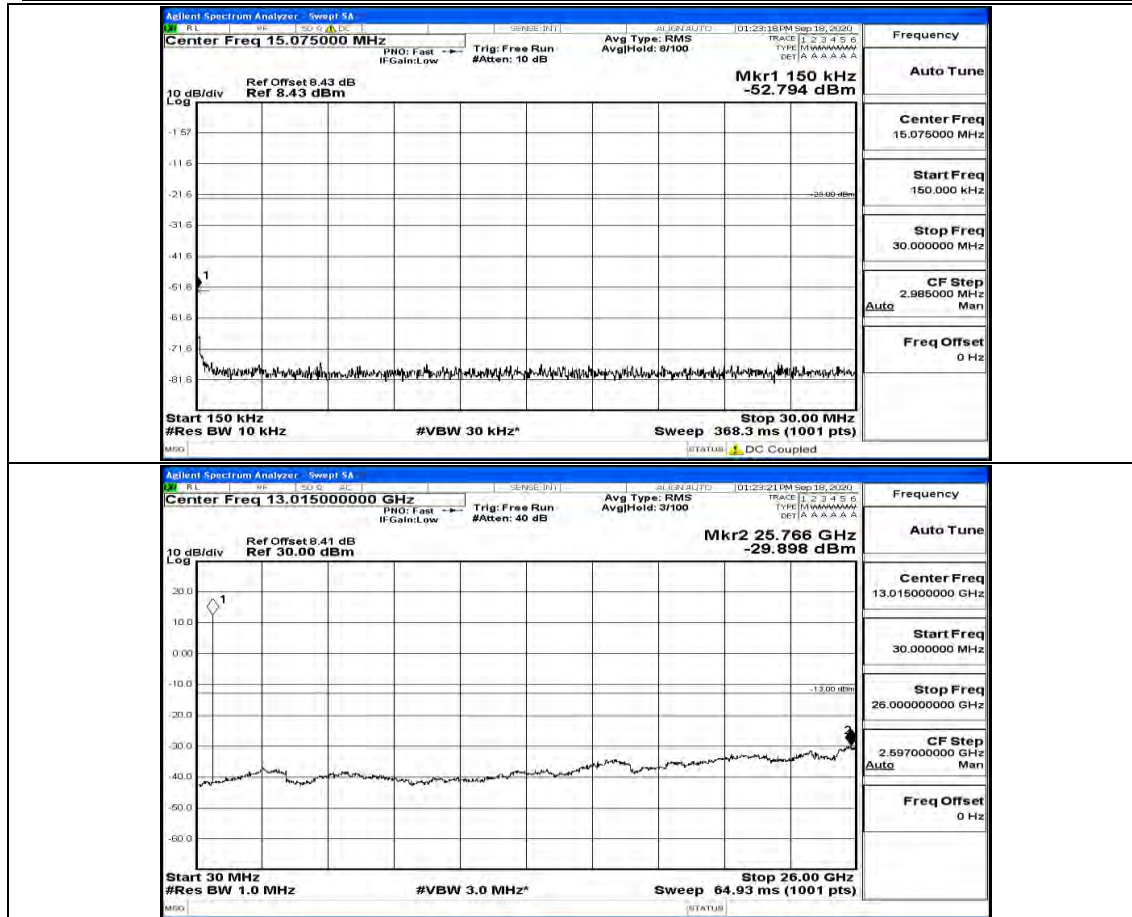
(Channel Bandwidth: 5 MHz)\_LCH\_QPSK\_1RB#12



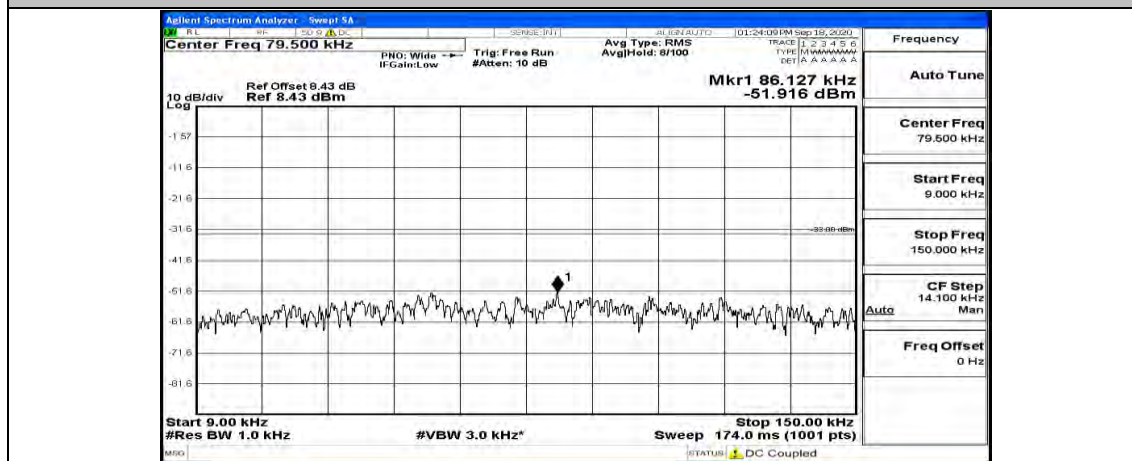


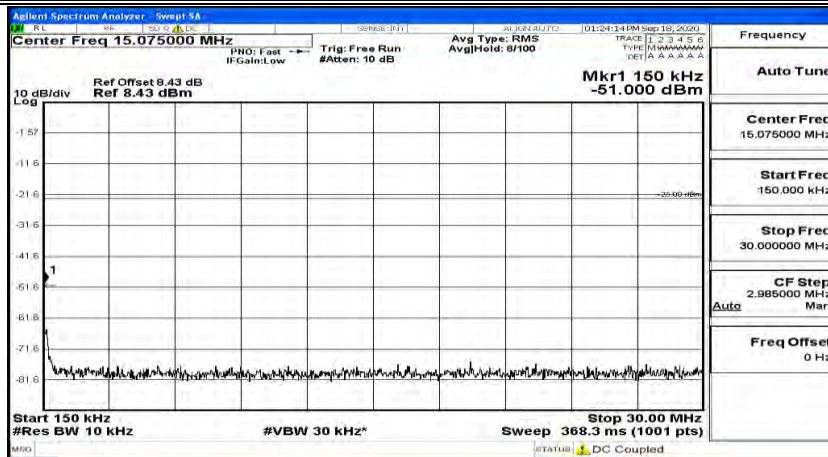
(Channel Bandwidth: 5 MHz)\_LCH\_QPSK\_1RB#24



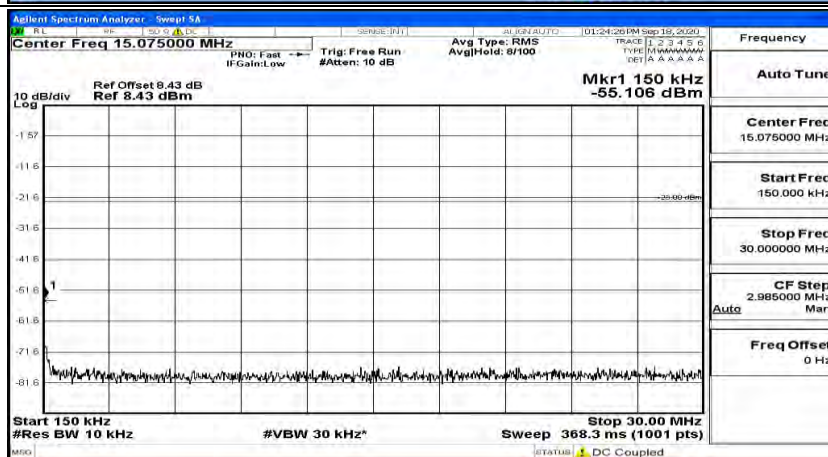
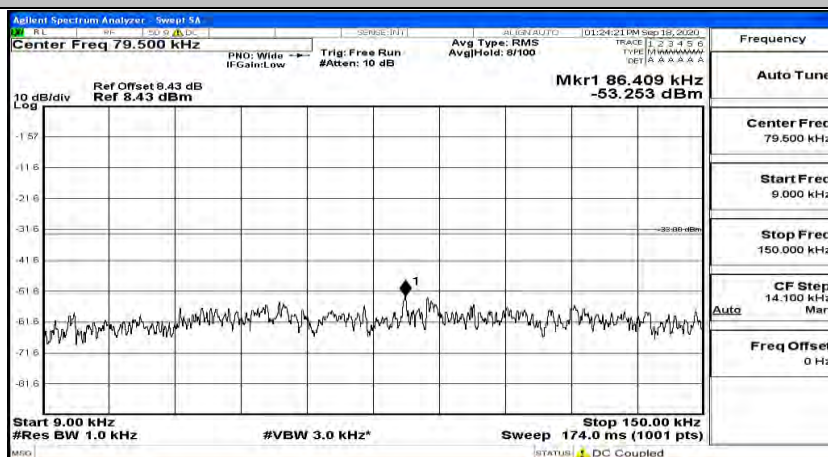


(Channel Bandwidth: 5 MHz)\_MCH\_QPSK\_1RB#0





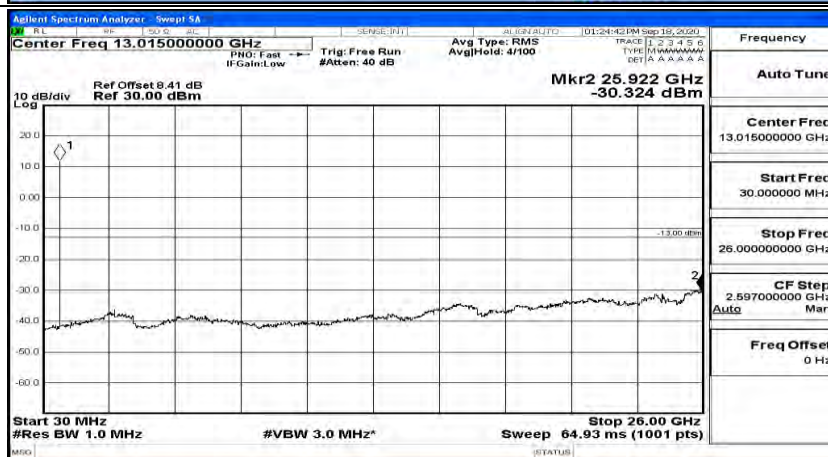
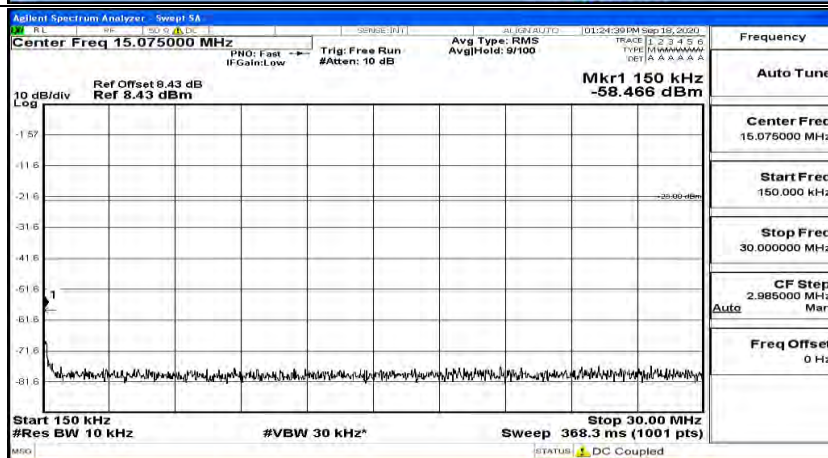
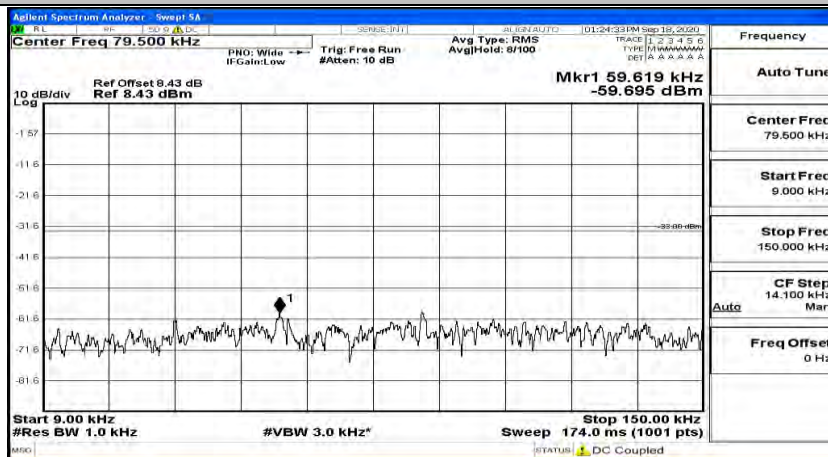
(Channel Bandwidth: 5 MHz)\_MCH\_QPSK\_1RB#12





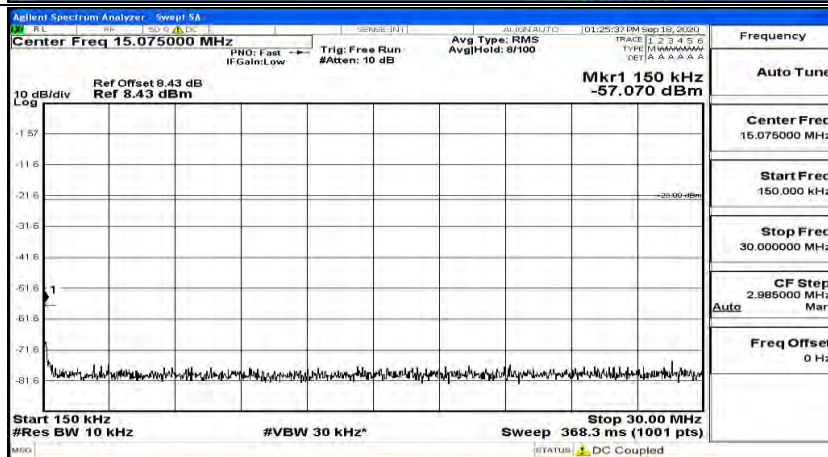
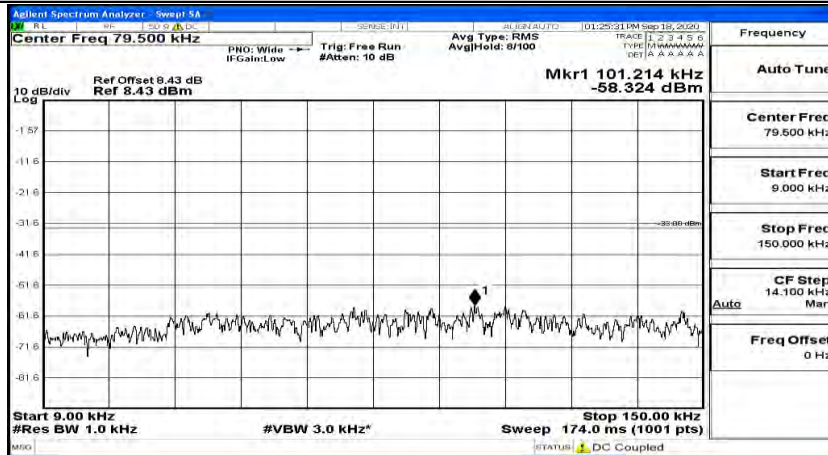


(Channel Bandwidth: 5 MHz) MCH\_QPSK\_1RB#24

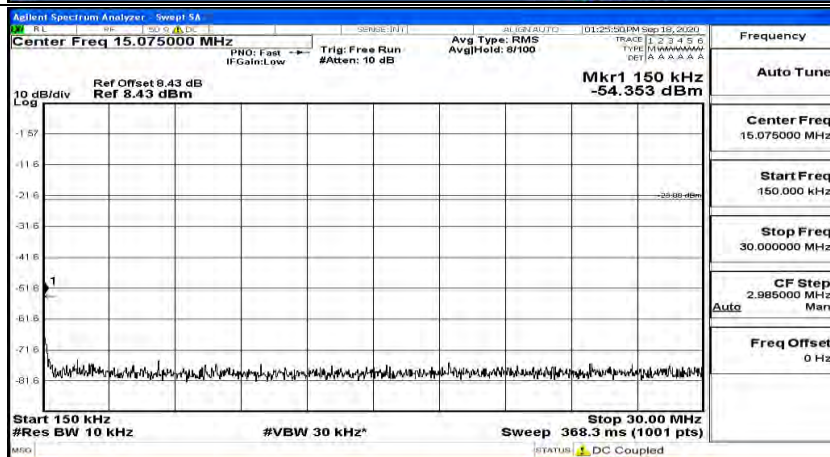
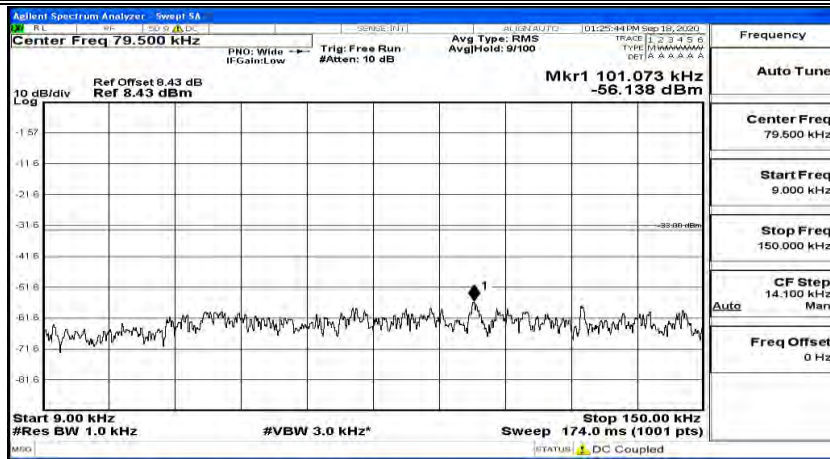




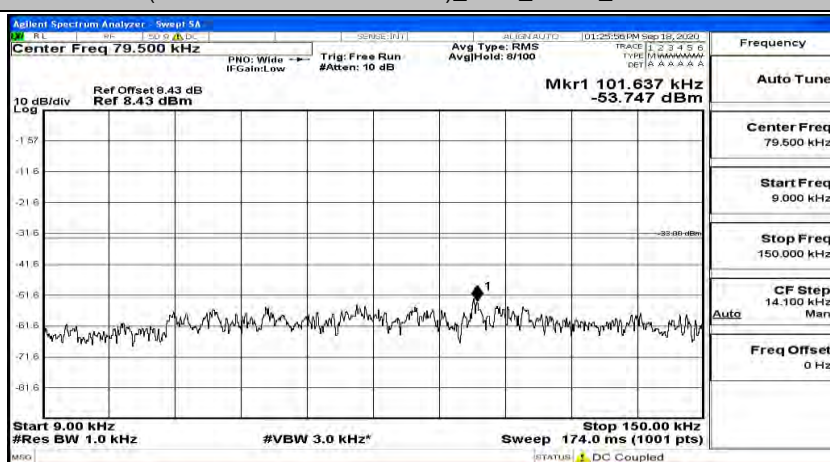
## (Channel Bandwidth: 5 MHz)\_HCH\_QPSK\_1RB#0

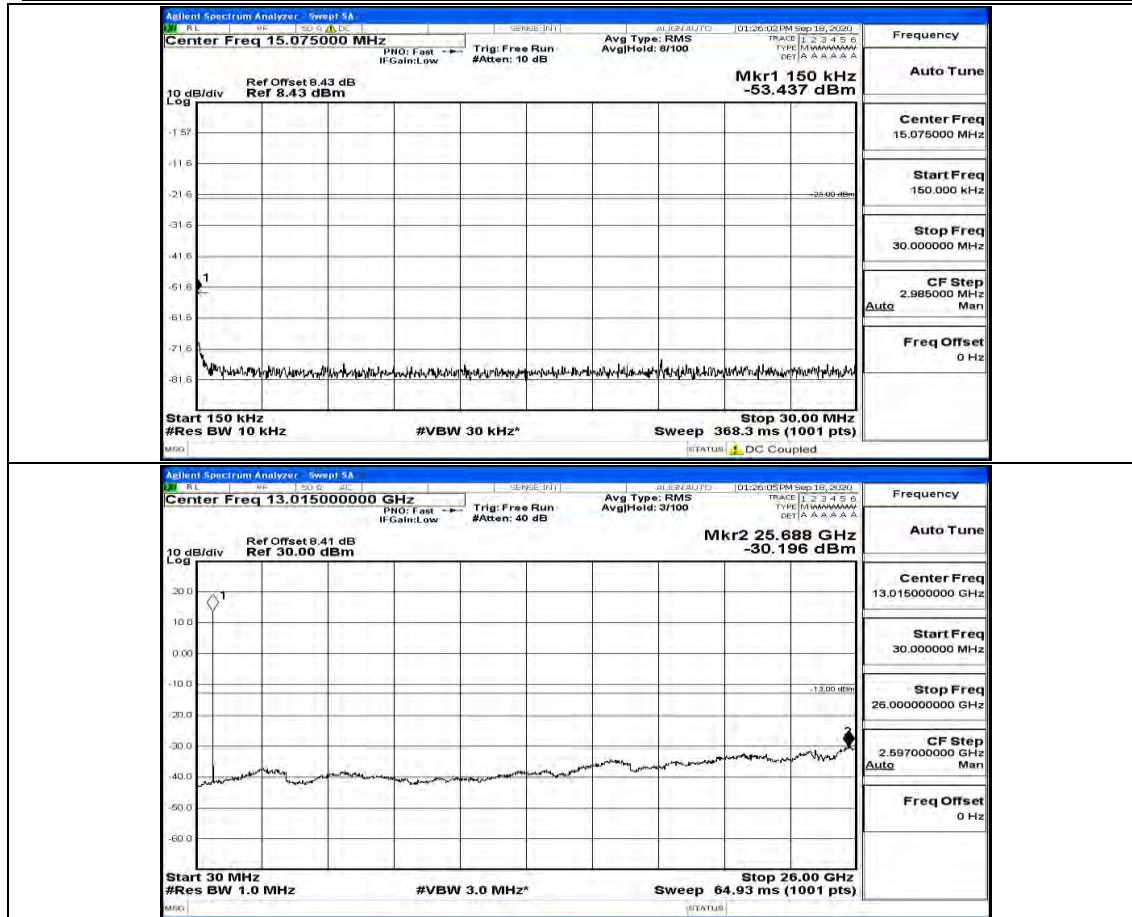


## (Channel Bandwidth: 5 MHz)\_HCH\_QPSK\_1RB#12

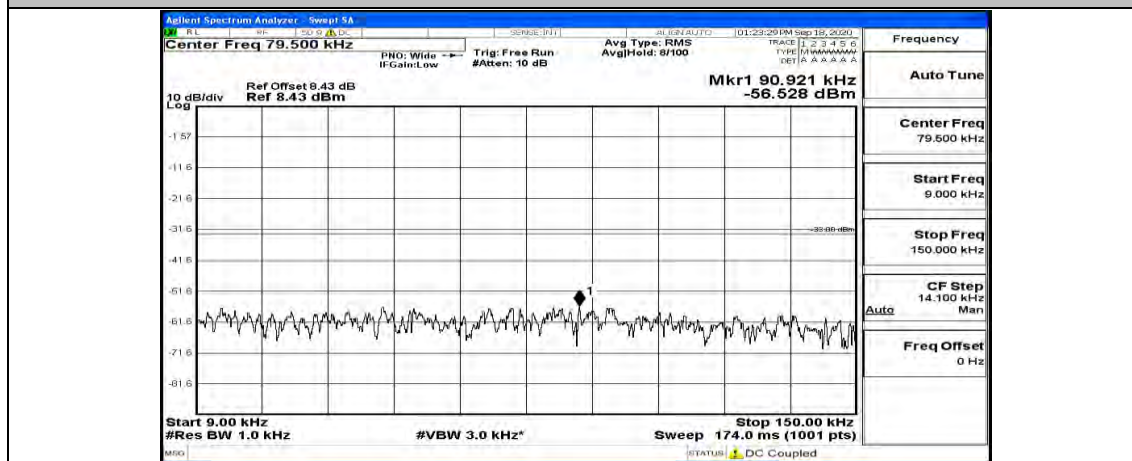


(Channel Bandwidth: 5 MHz)\_HCH\_QPSK\_1RB#24

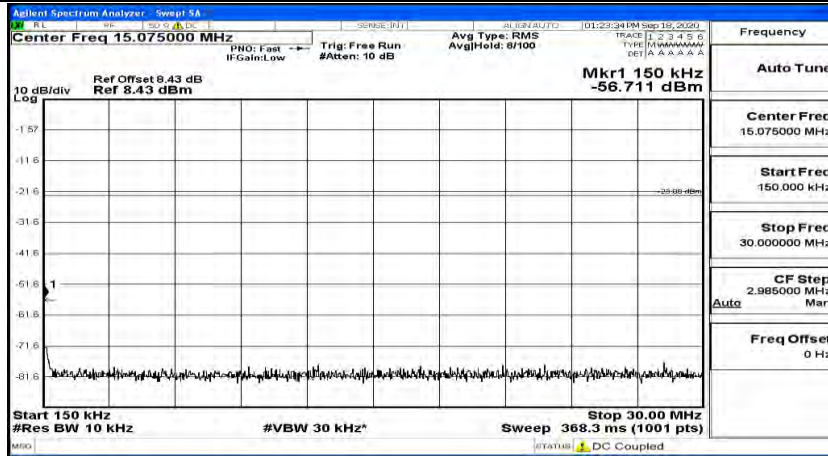




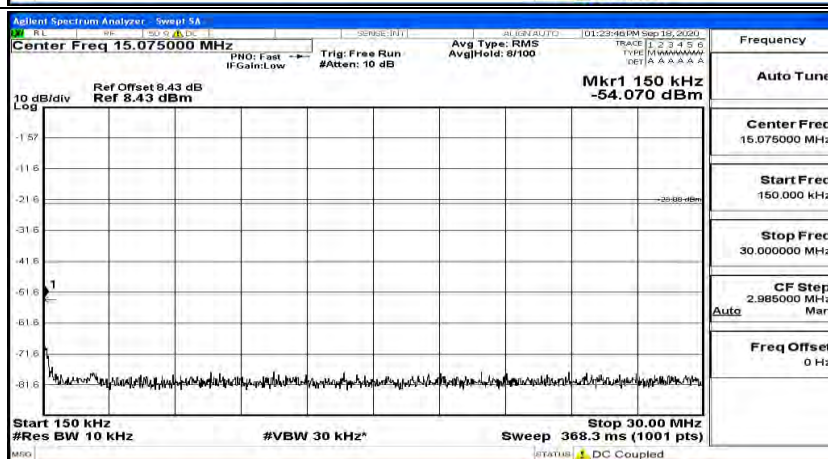
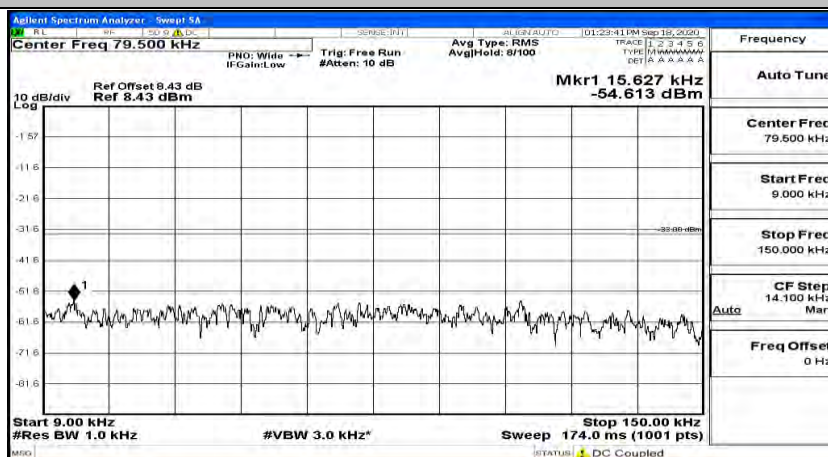
(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_1RB#0





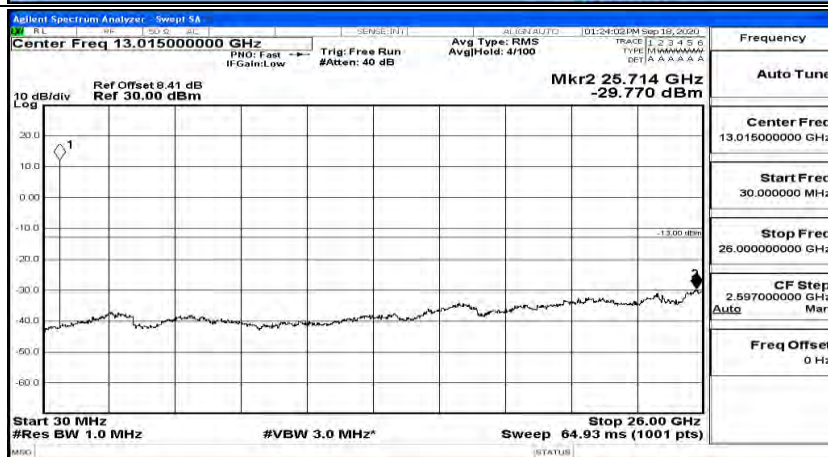
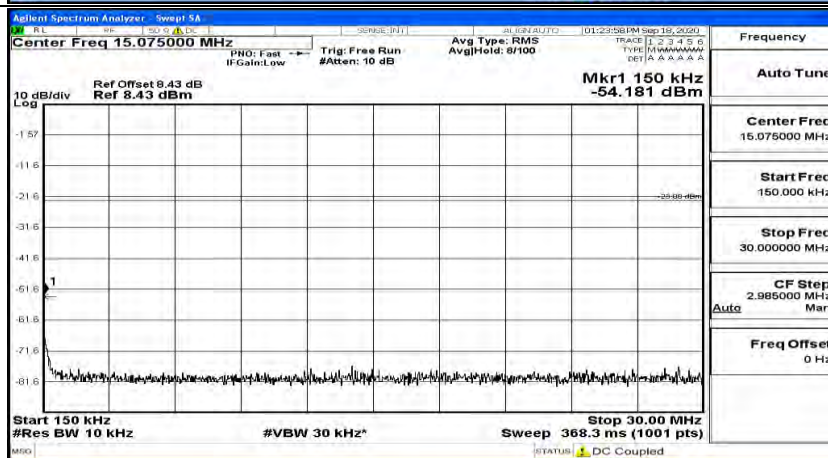
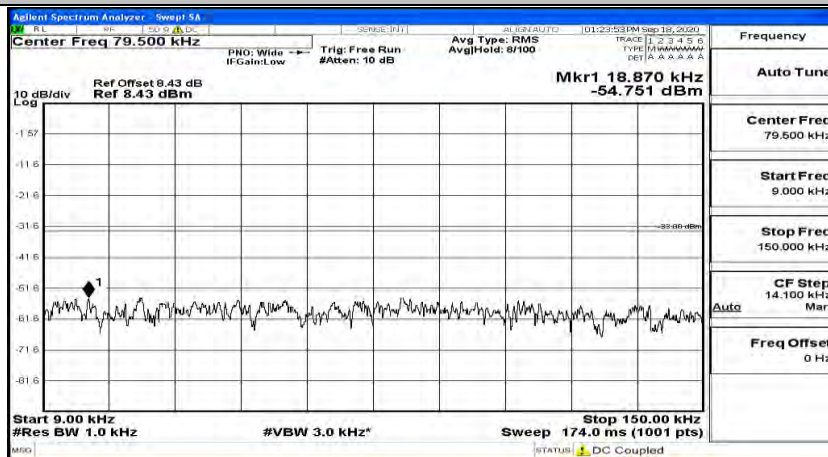


(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_1RB#12

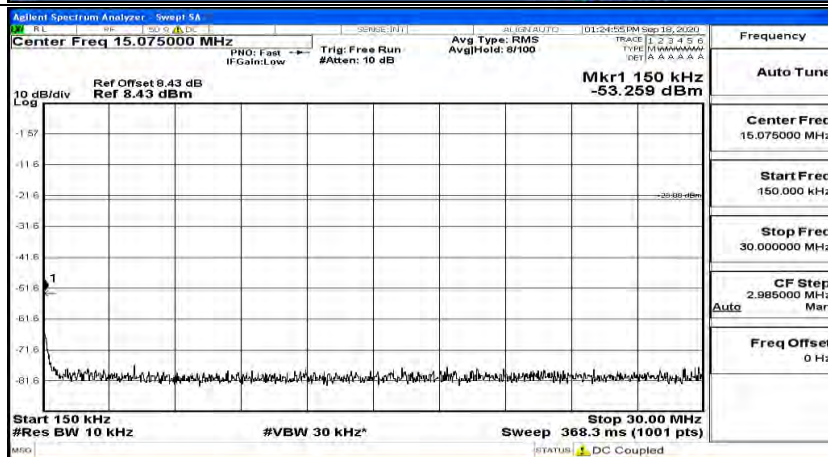
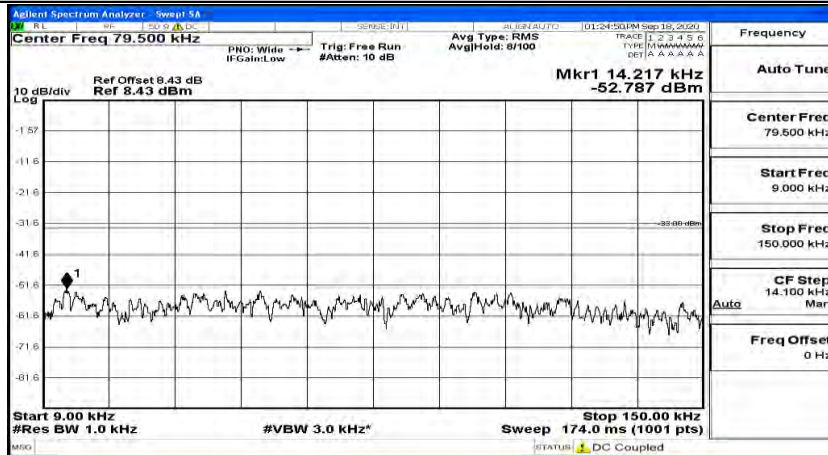




(Channel Bandwidth: 5 MHz) LCH\_16QAM\_1RB#24

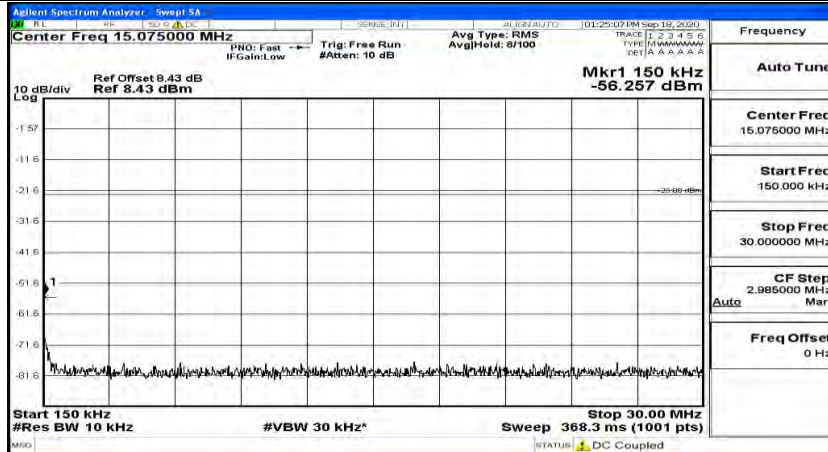
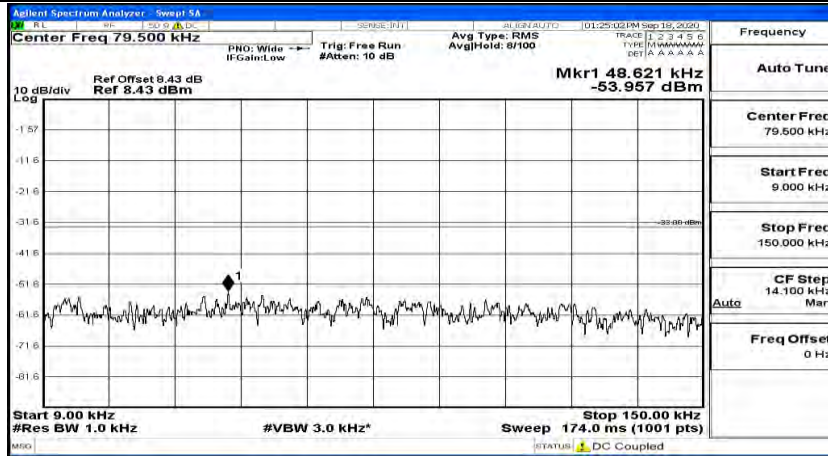


(Channel Bandwidth: 5 MHz)\_MCH\_16QAM\_1RB#0

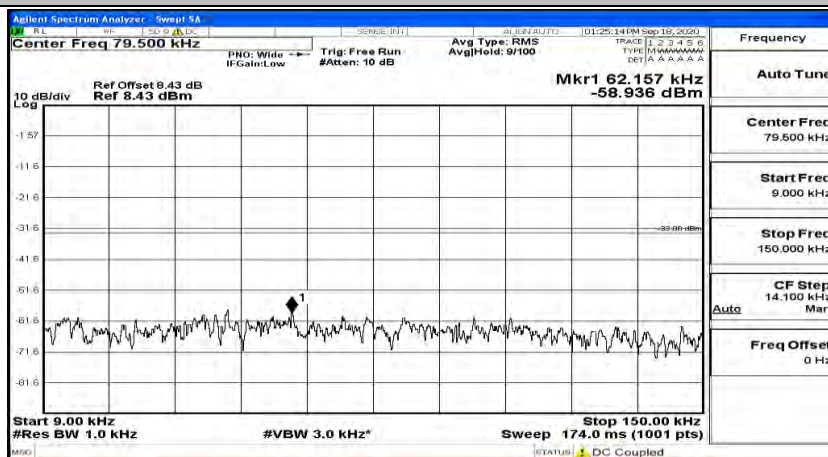


(Channel Bandwidth: 5 MHz)\_MCH\_16QAM\_1RB#12

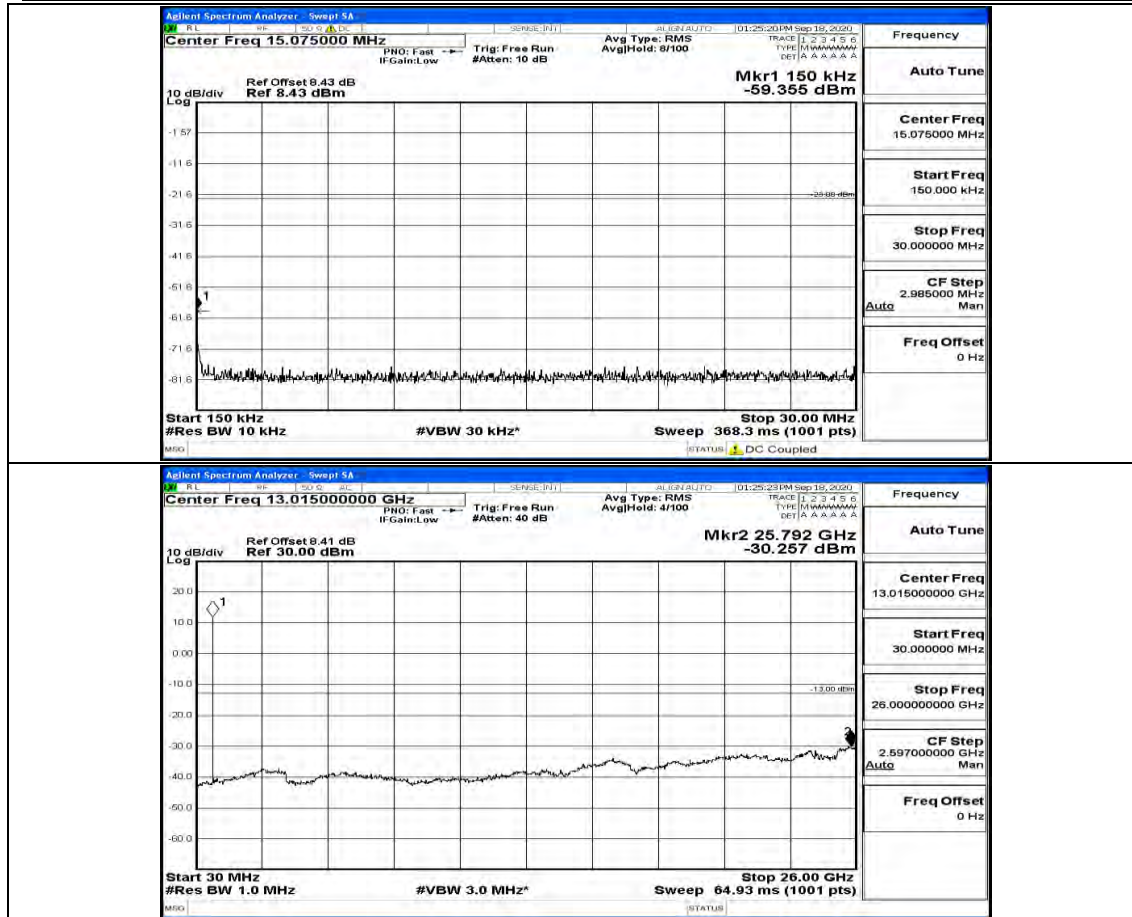




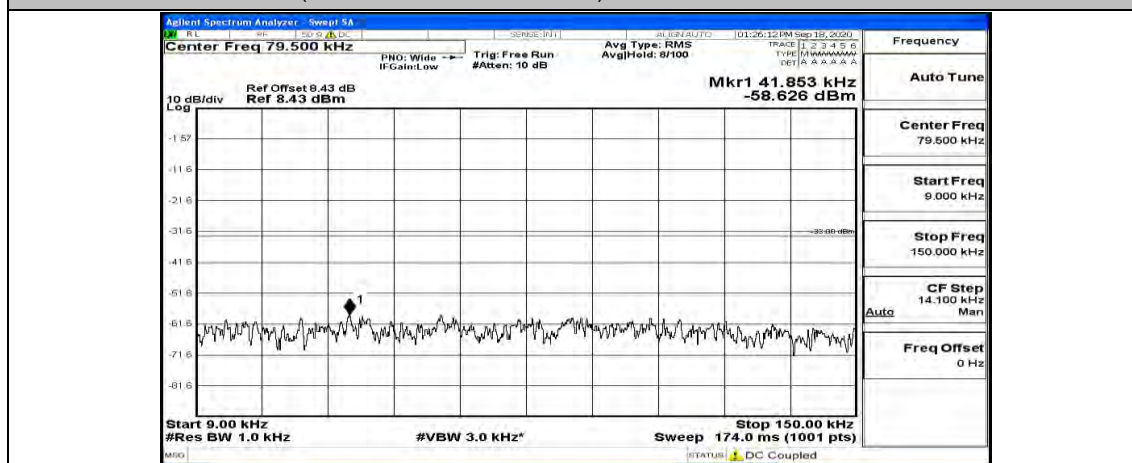
(Channel Bandwidth: 5 MHz)\_MCH\_16QAM\_1RB#24

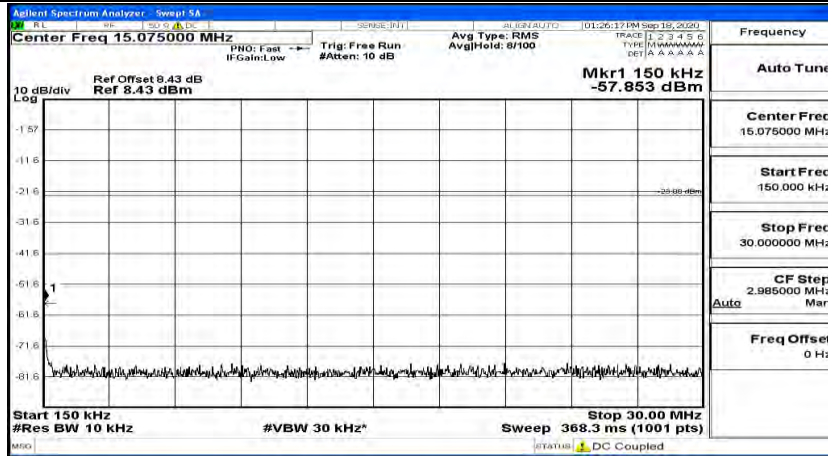




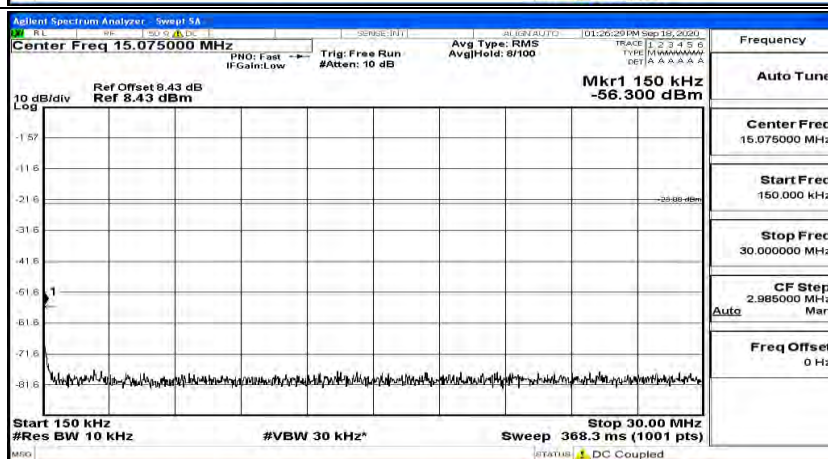
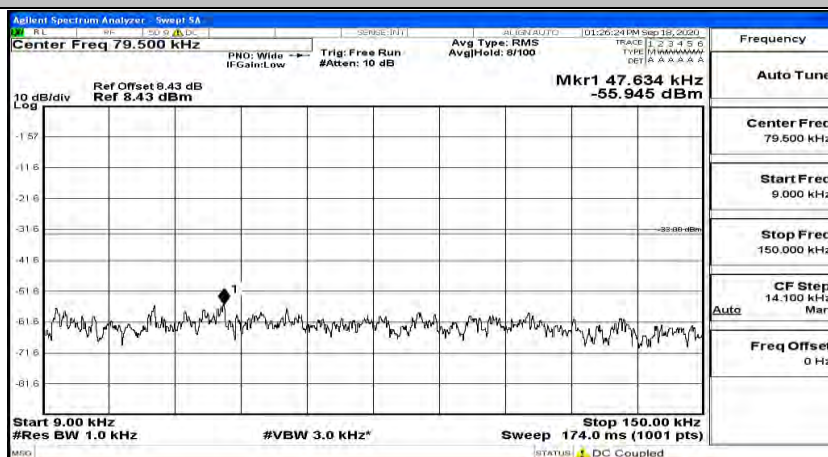


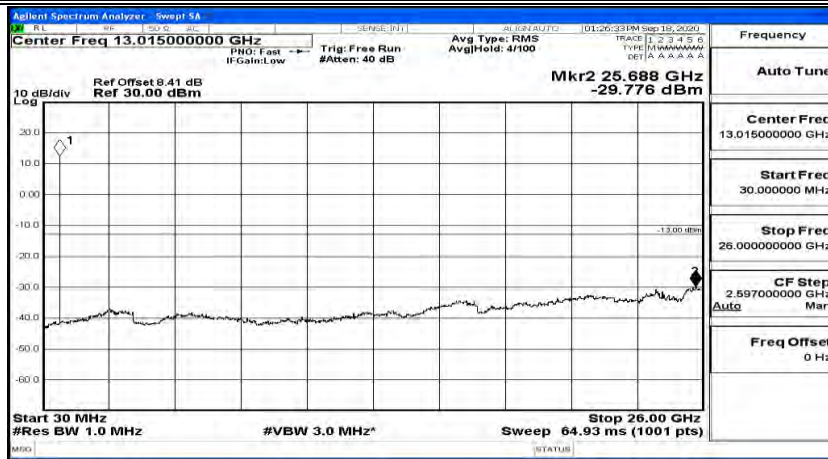
(Channel Bandwidth: 5 MHz)\_HCH\_16QAM\_1RB#0



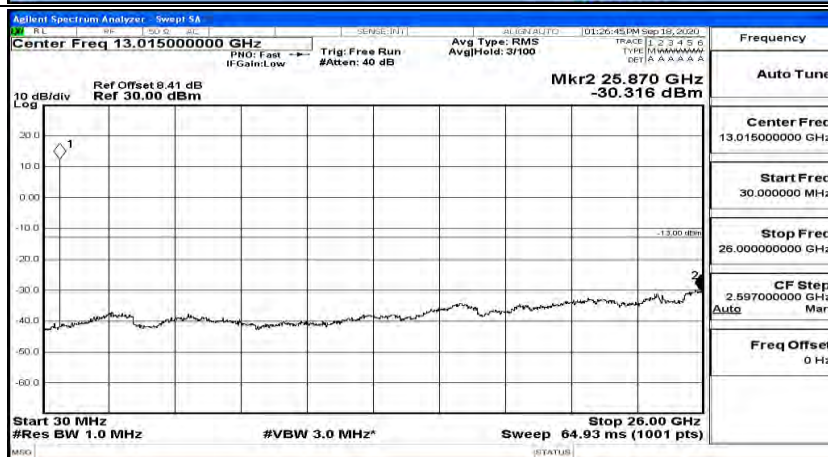
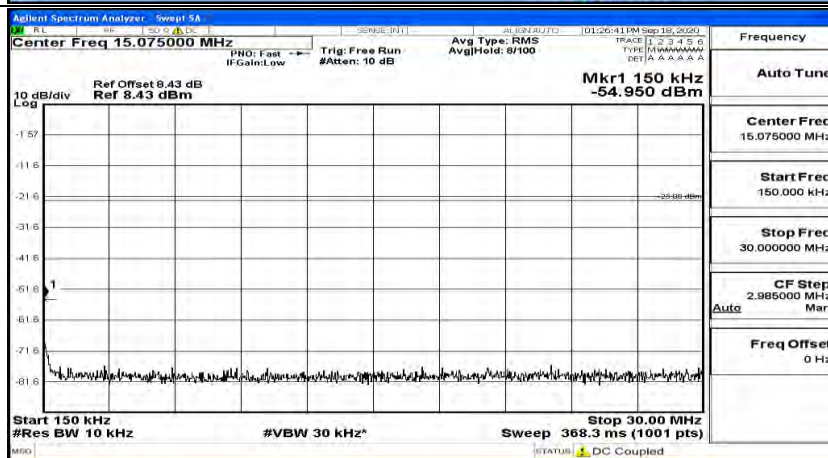
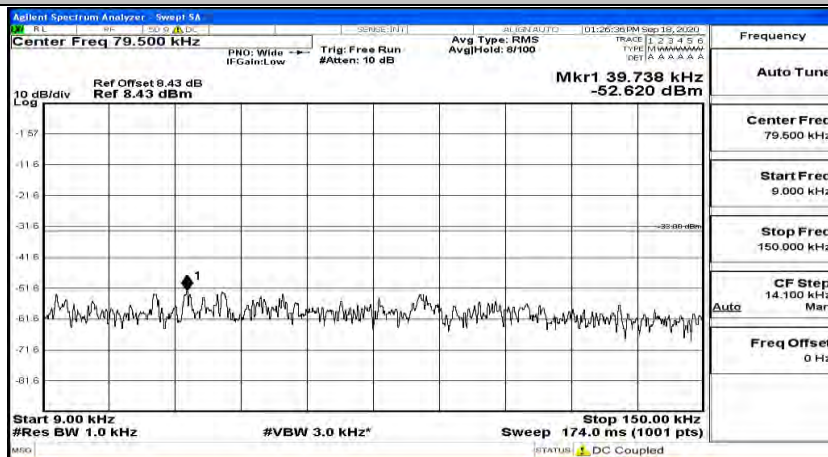


(Channel Bandwidth: 5 MHz)\_HCH\_16QAM\_1RB#12



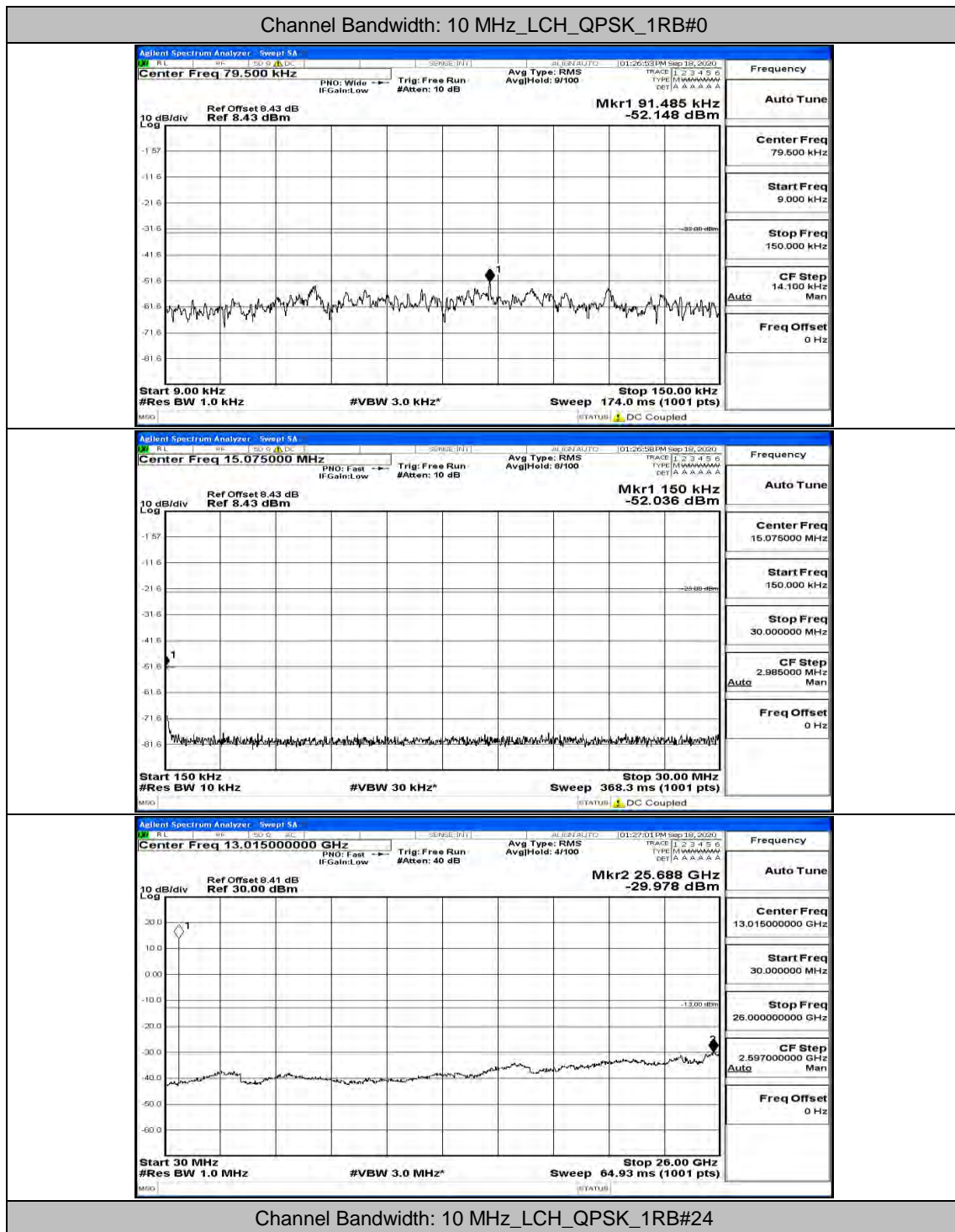


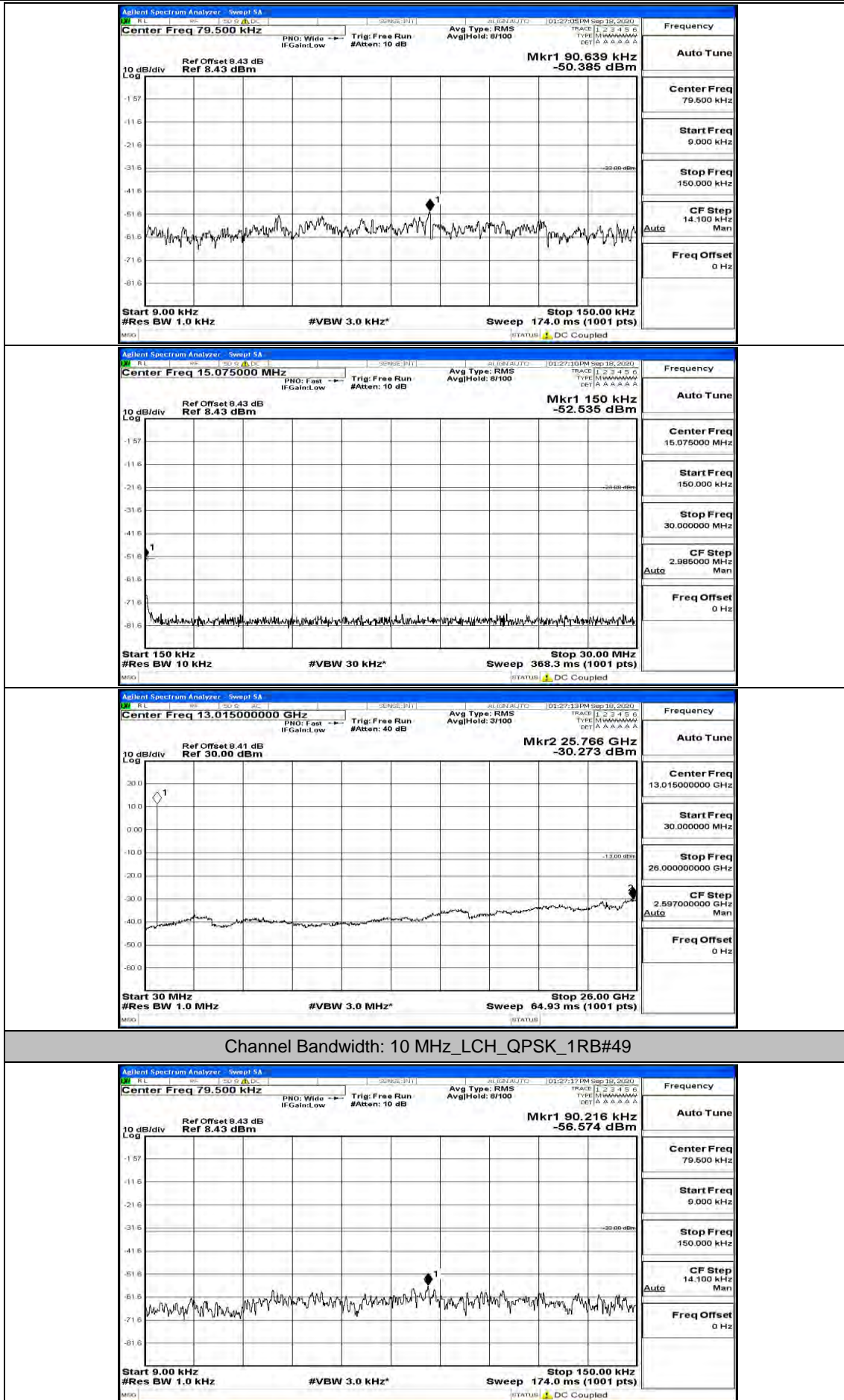
(Channel Bandwidth: 5 MHz)\_HCH\_16QAM\_1RB#24

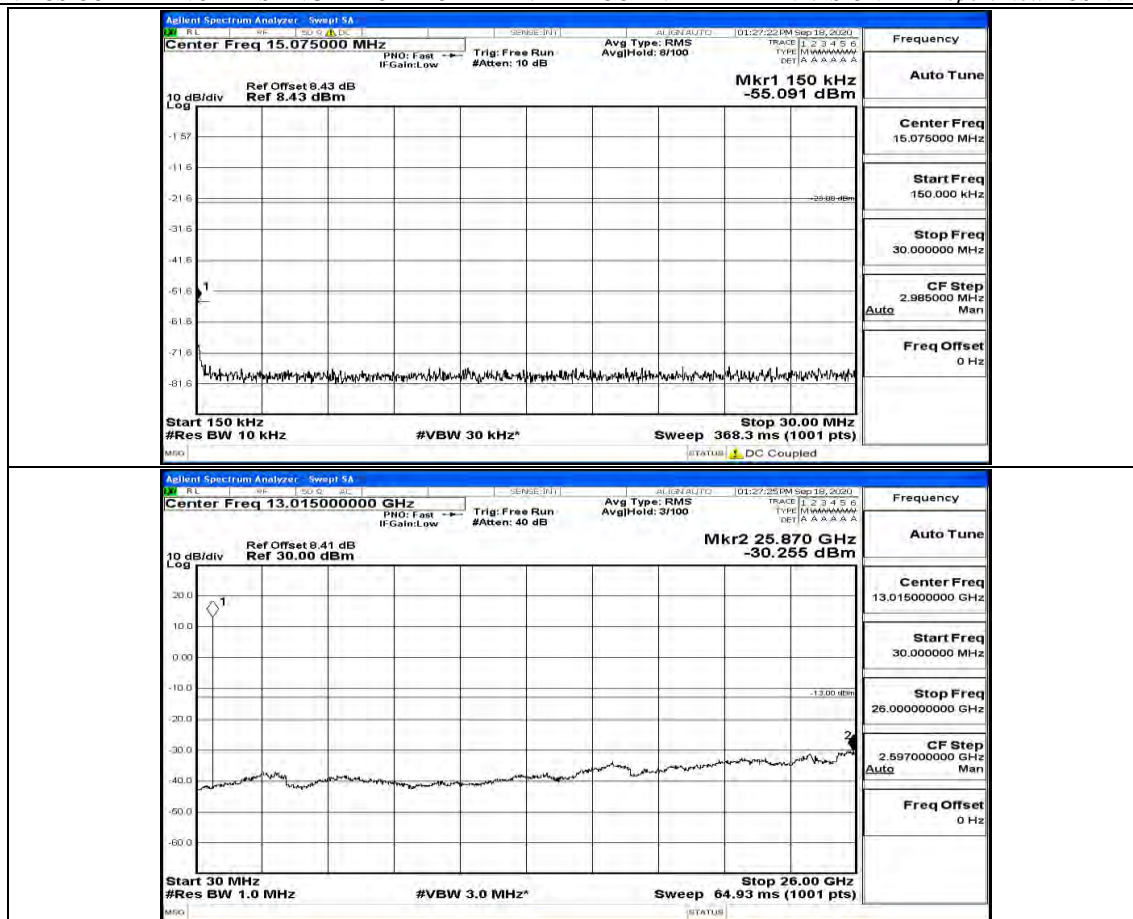




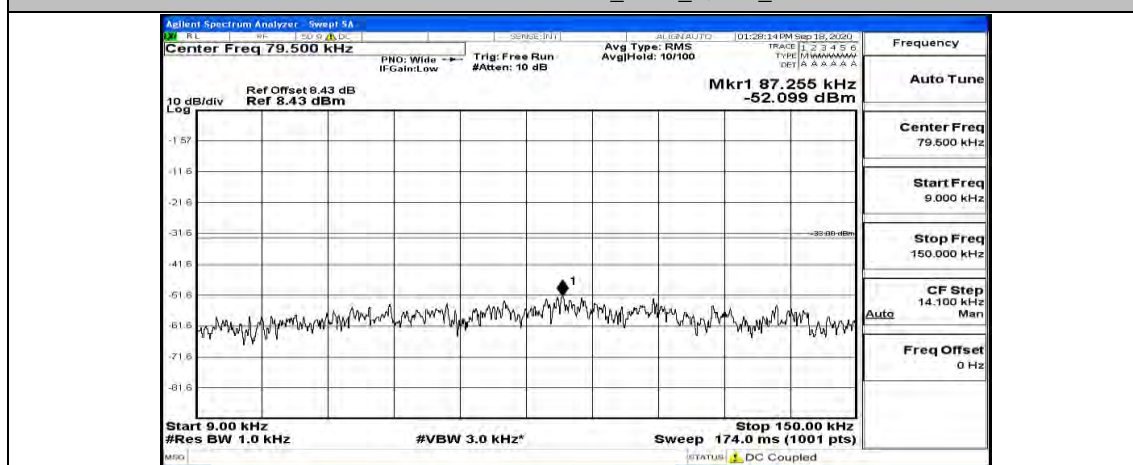
## Channel Bandwidth: 10 MHz



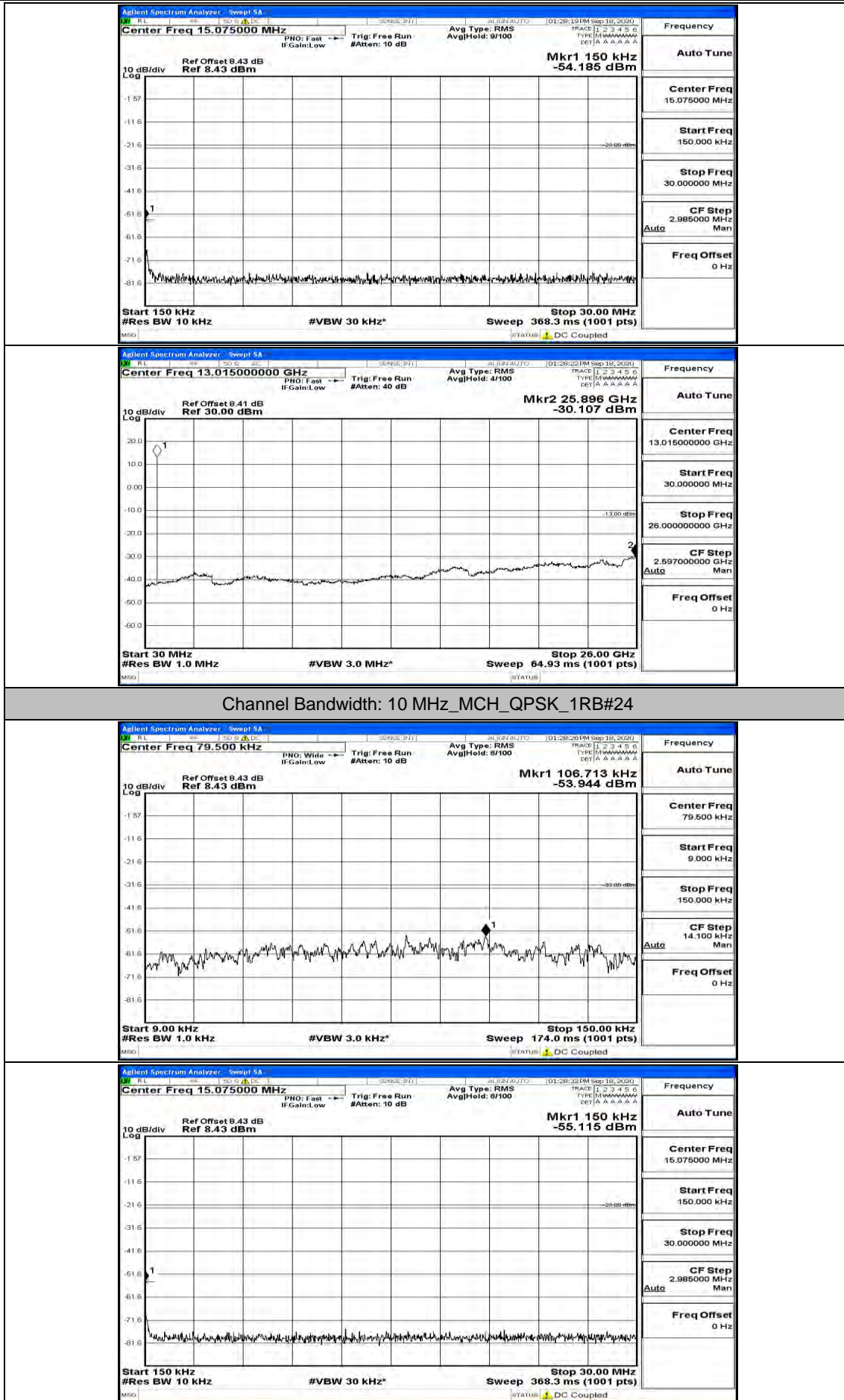




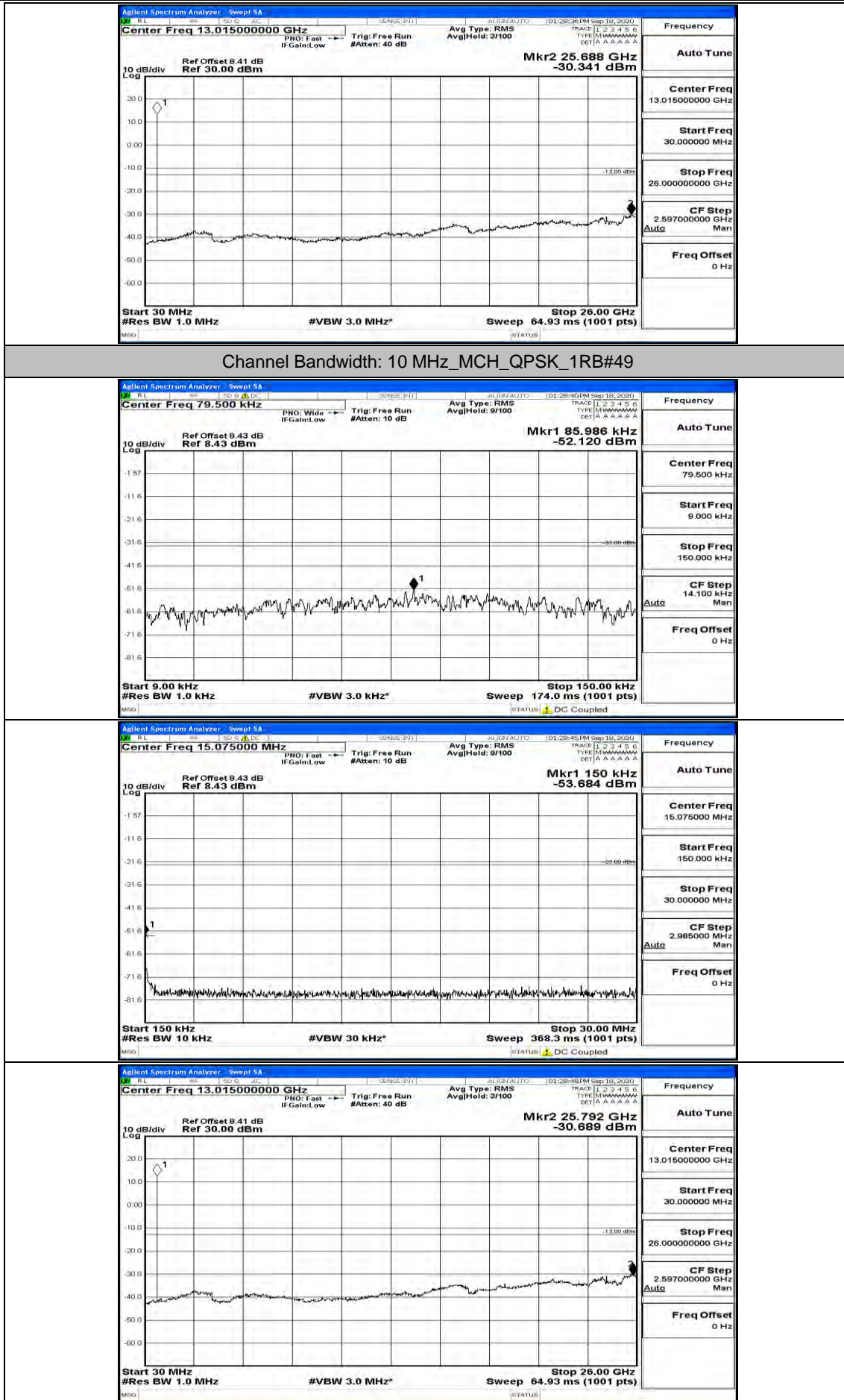
Channel Bandwidth: 10 MHz\_MCH\_QPSK\_1RB#0



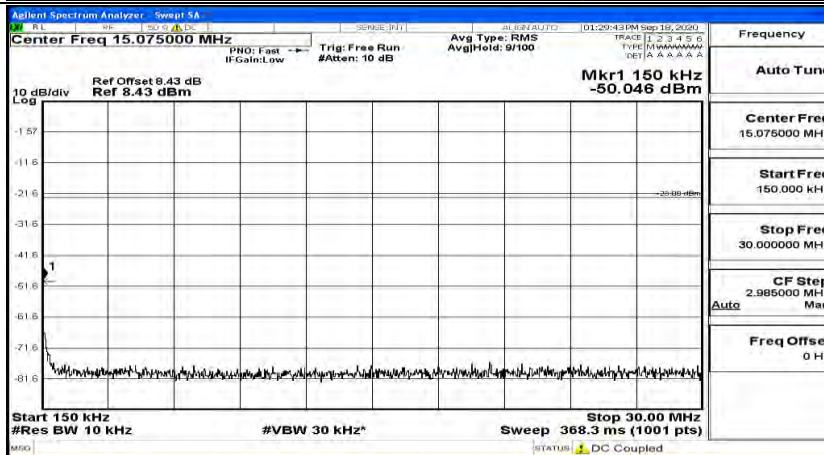
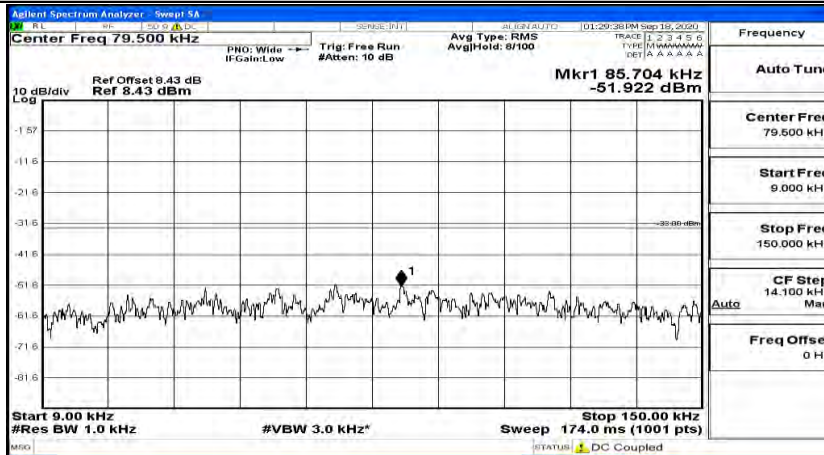




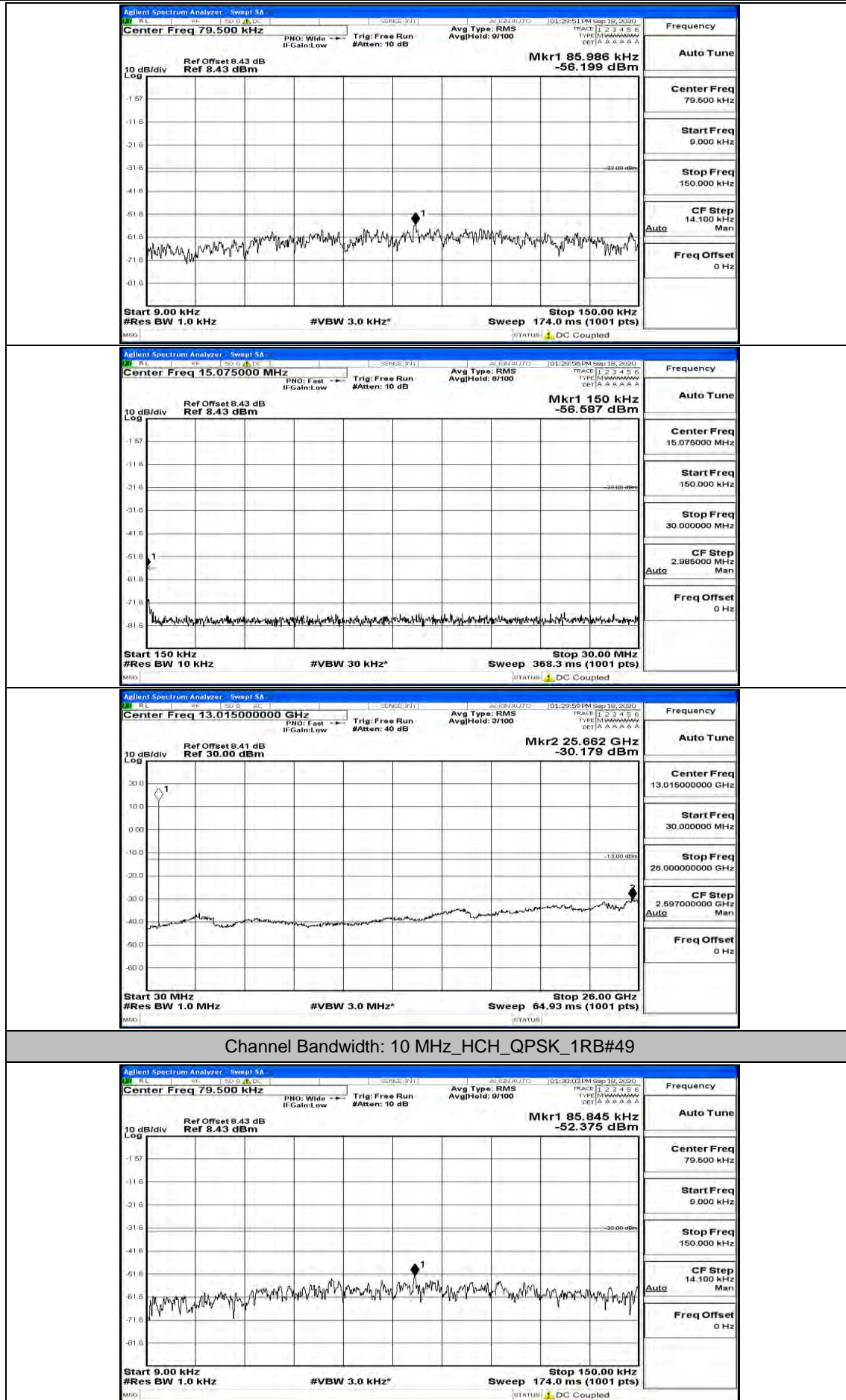




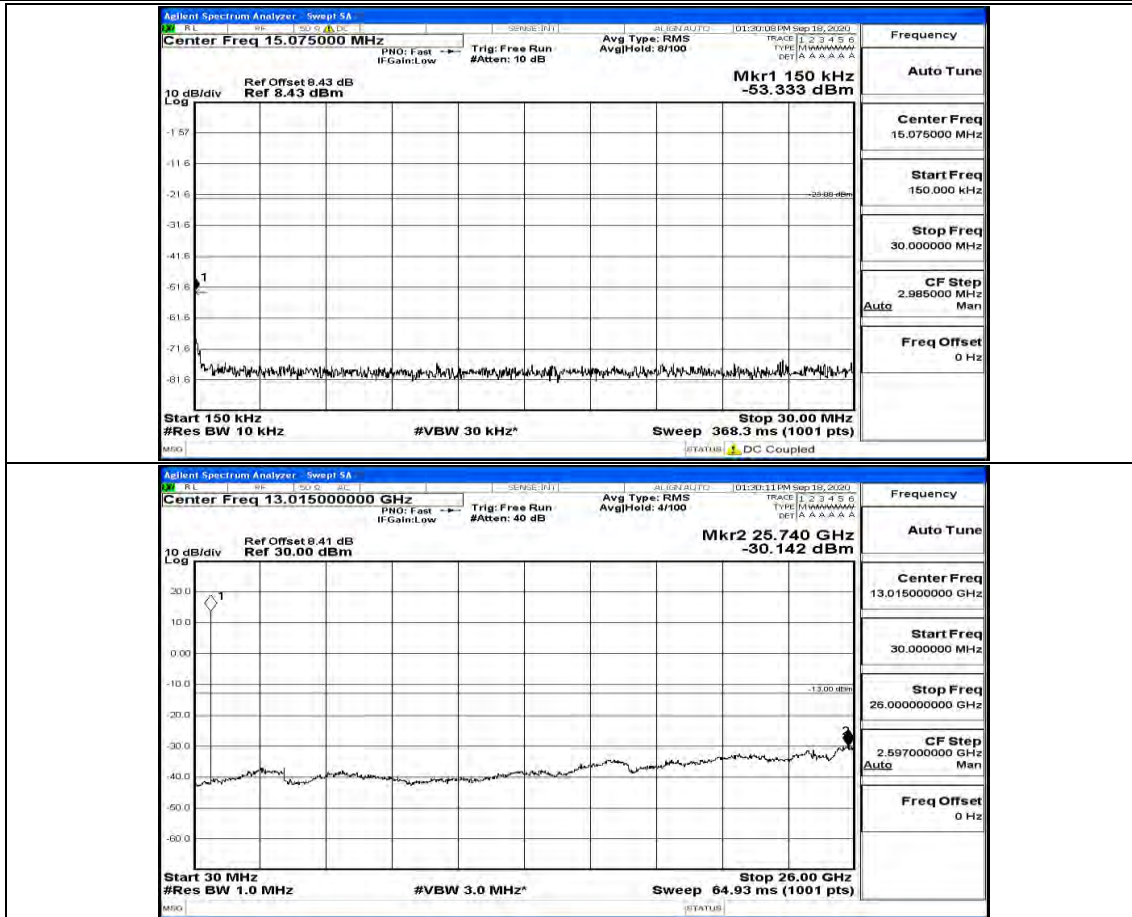
## Channel Bandwidth: 10 MHz\_HCH\_QPSK\_1RB#0



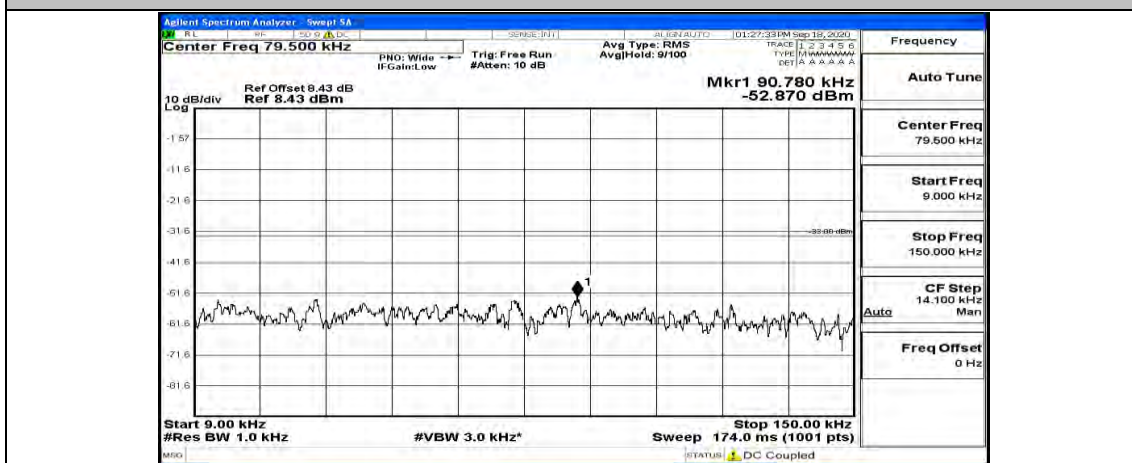
## Channel Bandwidth: 10 MHz\_HCH\_QPSK\_1RB#24

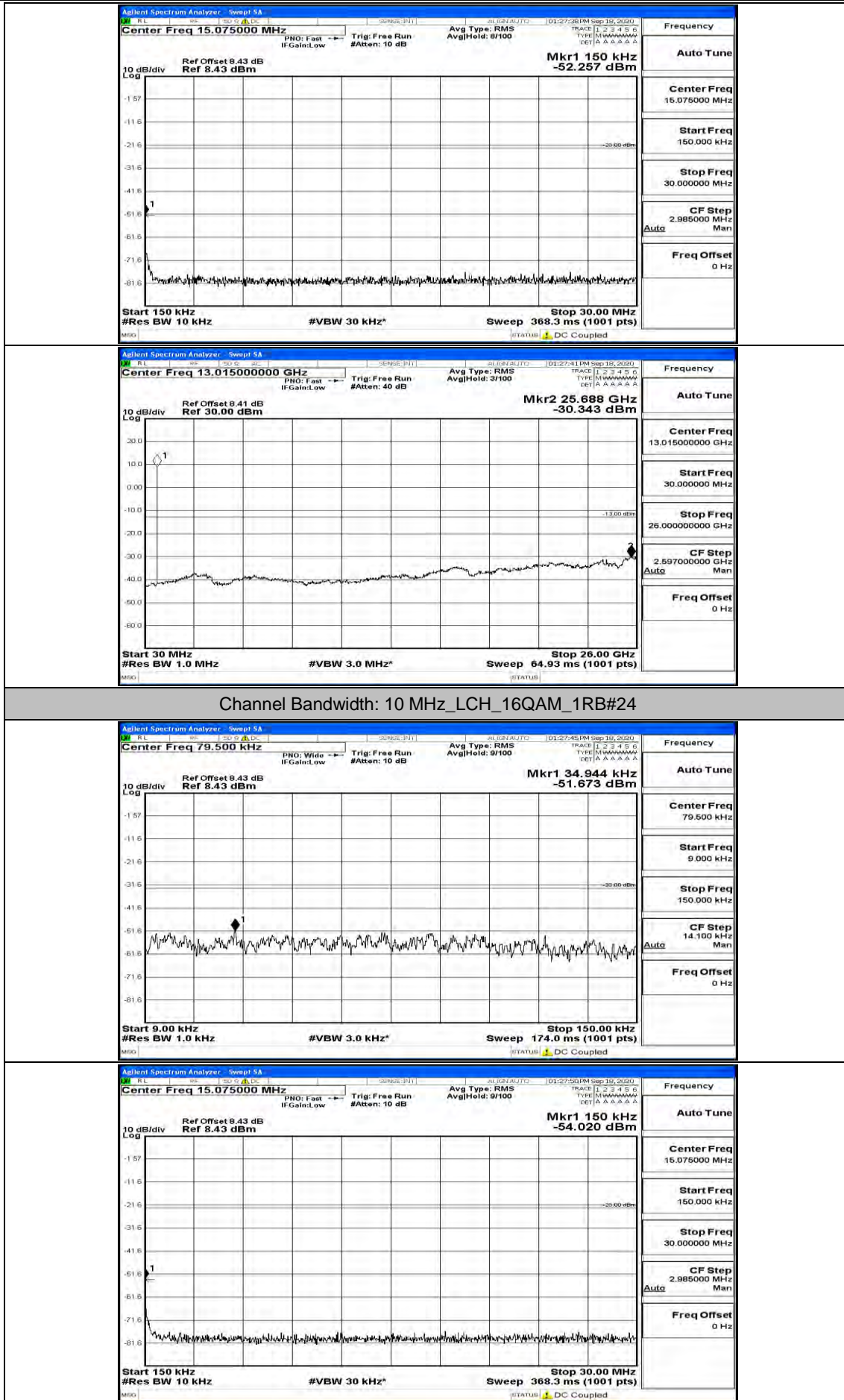






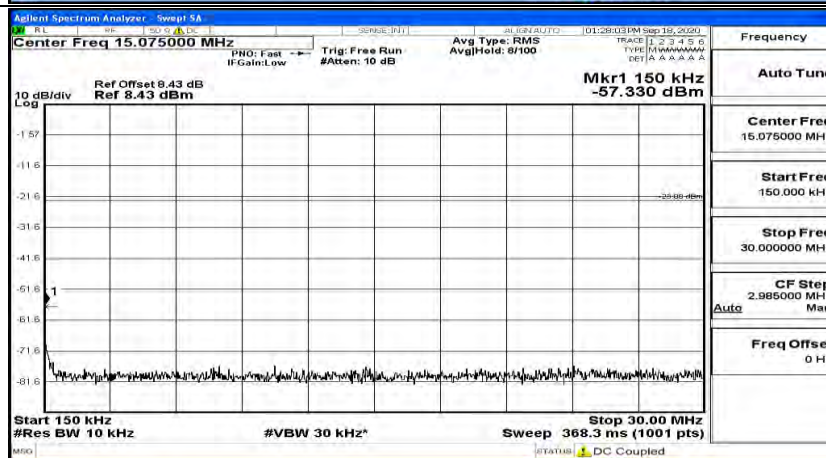
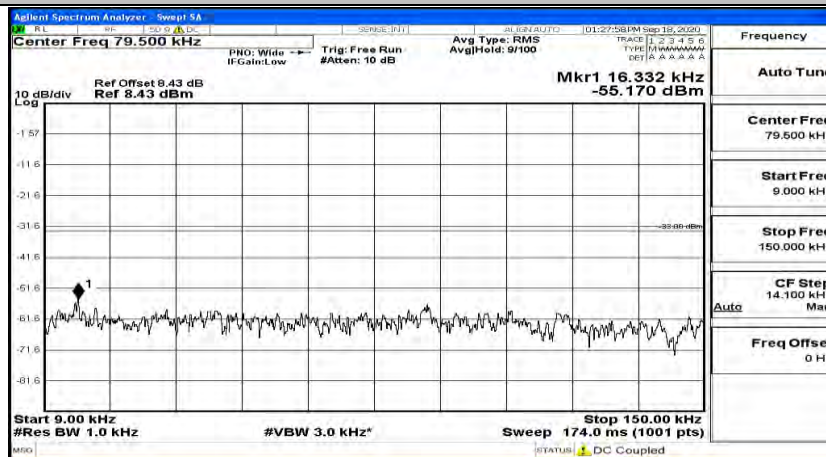
## Channel Bandwidth: 10 MHz\_LCH\_16QAM\_1RB#0





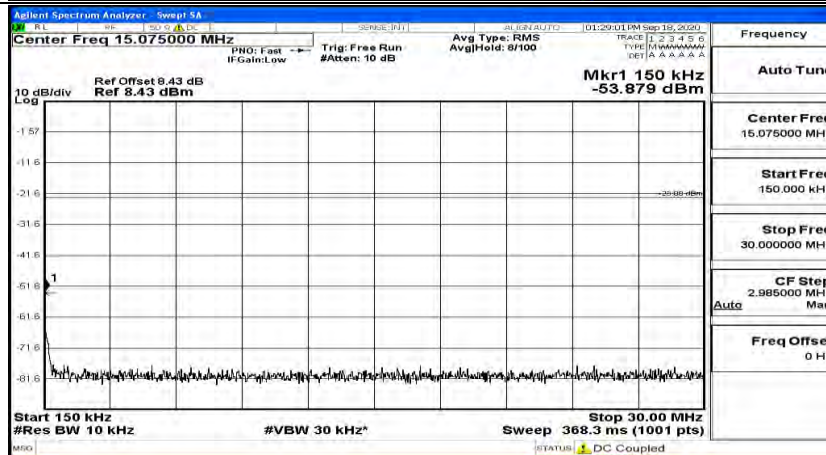
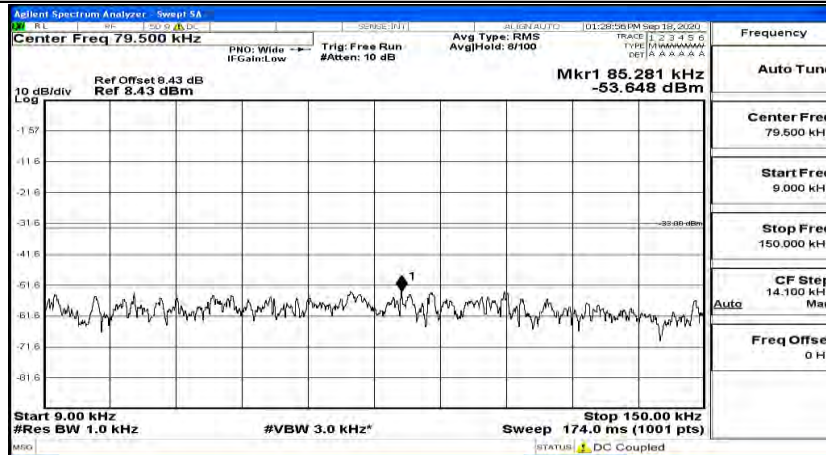


Channel Bandwidth: 10 MHz\_LCH\_16QAM\_1RB#49

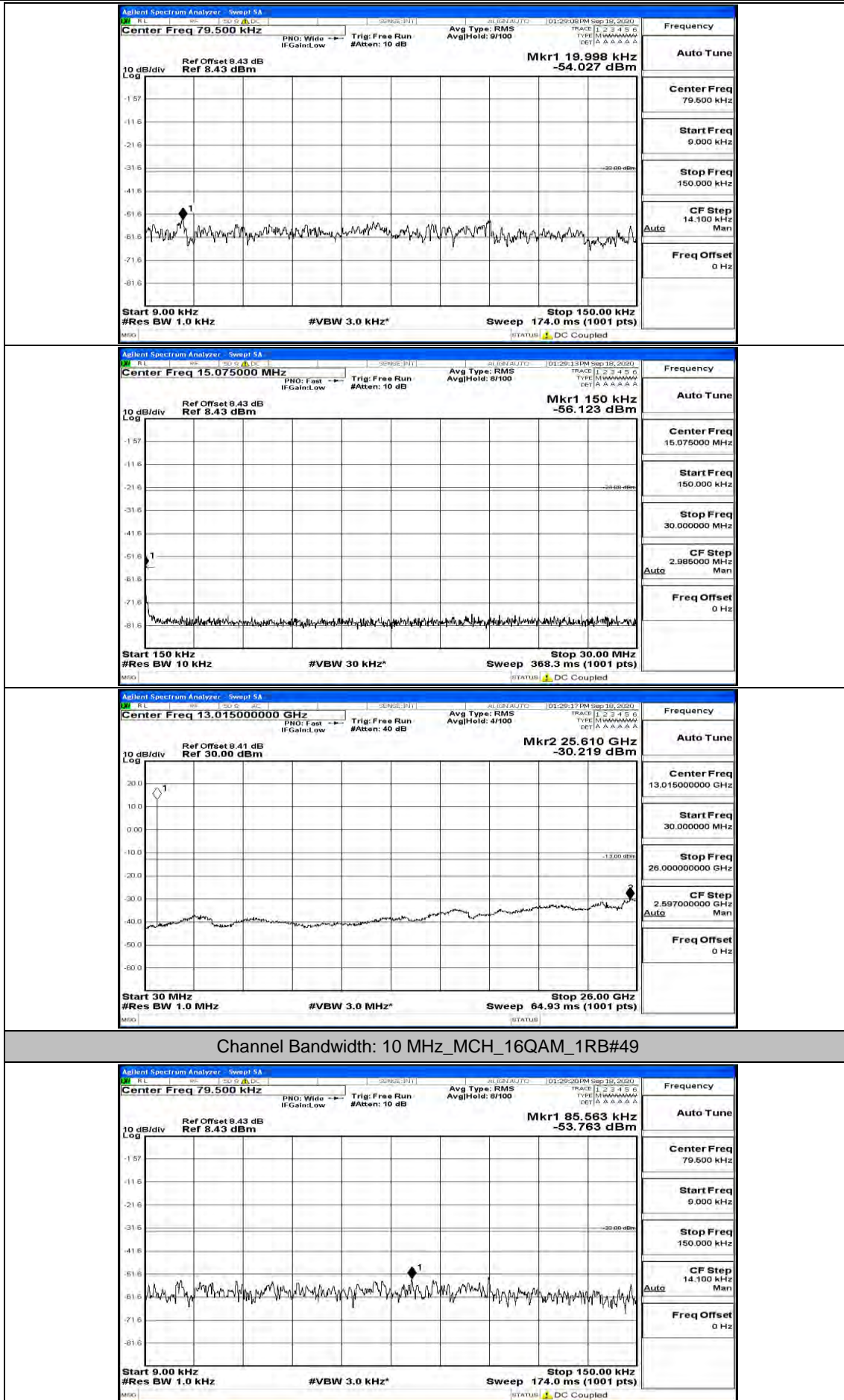


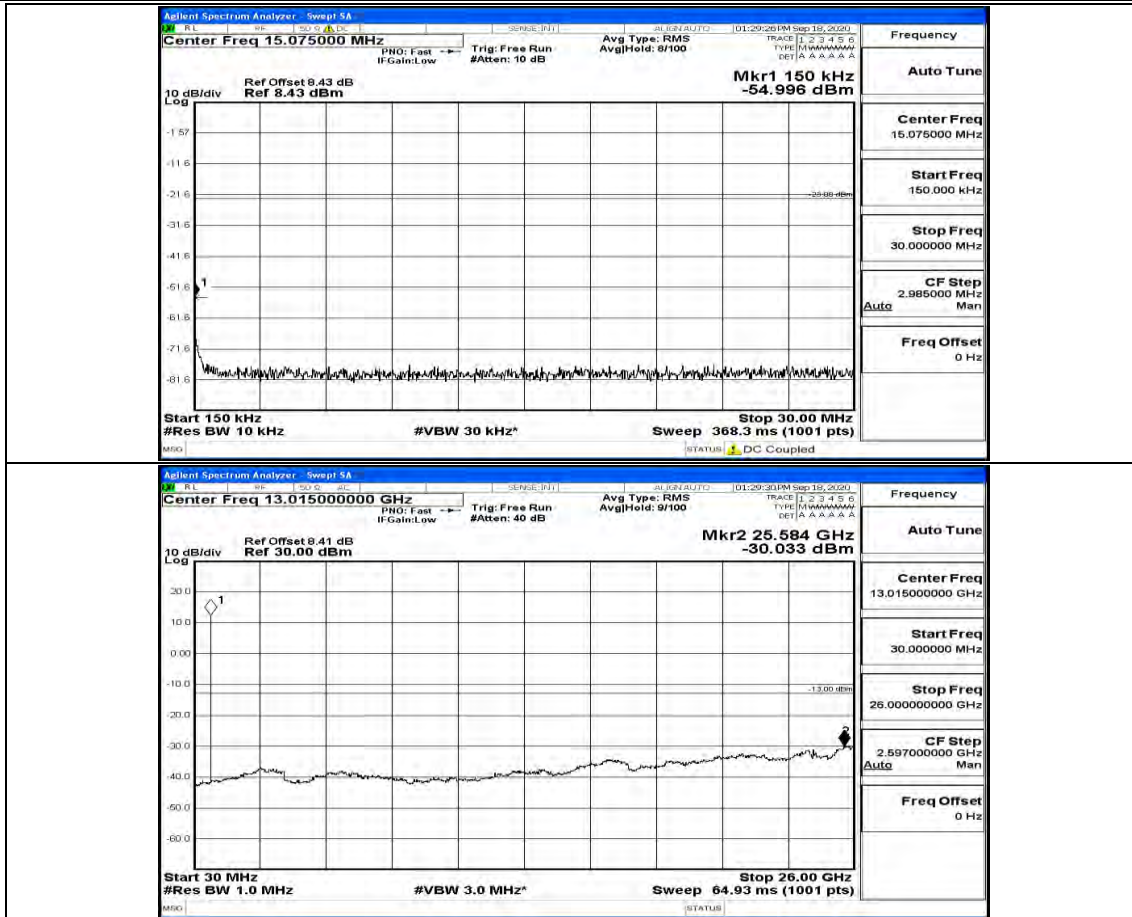


## Channel Bandwidth: 10 MHz\_MCH\_16QAM\_1RB#0



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





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

