

## Appendix E: Test Data for LTE Band 41

**Product Name:** Tablet  
**Trade Mark:** LAVA & XOLO  
**Test Model:** T71

### Environmental Conditions

Temperature:	24.1 ° C
Relative Humidity:	53.6%
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: 5 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	23.65	22.84	PASS
		1	12	23.91	23.11	PASS
		1	24	23.49	22.68	PASS
		12	0	22.68	21.69	PASS
		12	6	22.70	21.71	PASS
		12	13	22.61	21.59	PASS
		25	0	22.63	21.63	PASS
	MCH	1	0	23.65	22.98	PASS
		1	12	23.99	23.09	PASS
		1	24	23.66	22.95	PASS
		12	0	22.74	21.82	PASS
		12	6	22.73	21.81	PASS
		12	13	22.67	21.77	PASS
		25	0	22.69	21.71	PASS
	HCH	1	0	23.30	22.51	PASS
		1	12	23.63	22.82	PASS
		1	24	23.30	22.50	PASS
		12	0	22.31	21.28	PASS
		12	6	22.36	21.35	PASS
		12	13	22.35	21.29	PASS
		25	0	22.33	21.35	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	22.54	21.71	PASS
		1	24	22.35	21.51	PASS
		1	49	22.69	21.93	PASS
		25	0	22.24	21.26	PASS
		25	12	22.08	21.31	PASS
		25	25	21.96	21.14	PASS
		50	0	22.15	21.06	PASS
	MCH	1	0	23.35	22.34	PASS
		1	24	23.37	22.36	PASS
		1	49	22.75	21.69	PASS
		25	0	22.44	21.50	PASS
		25	12	22.41	21.60	PASS
		25	25	22.14	21.15	PASS
		50	0	22.30	21.32	PASS
	HCH	1	0	23.39	22.67	PASS
		1	24	23.56	22.74	PASS
		1	49	23.85	22.97	PASS
		25	0	23.51	22.55	PASS
		25	12	23.41	22.52	PASS
		25	25	23.25	22.26	PASS
		50	0	23.41	22.46	PASS

Conducted Output Power Test Result (Channel Bandwidth: 15 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	23.25	22.69	PASS
		1	37	23.33	22.87	PASS
		1	74	23.20	22.59	PASS
		37	0	22.32	21.14	PASS
		37	18	22.34	21.15	PASS
		37	38	22.22	21.15	PASS
		75	0	22.28	21.32	PASS
	MCH	1	0	23.87	22.84	PASS
		1	37	23.51	22.65	PASS
		1	74	22.81	21.98	PASS
		37	0	22.72	21.59	PASS
		37	18	22.52	21.39	PASS
		37	38	22.20	21.05	PASS
		75	0	22.50	21.56	PASS
	HCH	1	0	23.61	22.72	PASS
		1	37	23.65	22.69	PASS
		1	74	23.85	23.10	PASS
		37	0	23.59	22.57	PASS
		37	18	23.58	22.57	PASS
		37	38	23.40	22.34	PASS
		75	0	23.55	22.71	PASS

Conducted Output Power Test Result (Channel Bandwidth: 20 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	23.05	22.13	PASS
		1	49	23.30	22.34	PASS
		1	99	23.26	22.13	PASS
		50	0	22.37	21.38	PASS
		50	25	22.39	21.41	PASS
		50	50	22.46	21.45	PASS
		100	0	22.50	21.53	PASS
	MCH	1	0	23.34	22.41	PASS
		1	49	23.00	22.05	PASS
		1	99	23.15	22.15	PASS
		50	0	22.81	21.89	PASS
		50	25	22.61	21.60	PASS
		50	50	22.27	21.27	PASS
		100	0	22.60	21.65	PASS
	HCH	1	0	23.56	22.60	PASS
		1	49	23.80	22.85	PASS
		1	99	23.43	22.70	PASS
		50	0	23.73	22.90	PASS
		50	25	23.73	22.74	PASS
		50	50	23.53	22.49	PASS
		100	0	23.78	22.77	PASS

**E.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	8.82	<13	PASS
	MCH	8.10	<13	PASS
	HCH	8.45	<13	PASS
16QAM	LCH	9.25	<13	PASS
	MCH	10.18	<13	PASS
	HCH	10.98	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	9.38	<13	PASS
	MCH	9.56	<13	PASS
	HCH	9.12	<13	PASS
16QAM	LCH	9.50	<13	PASS
	MCH	10.96	<13	PASS
	HCH	9.12	<13	PASS

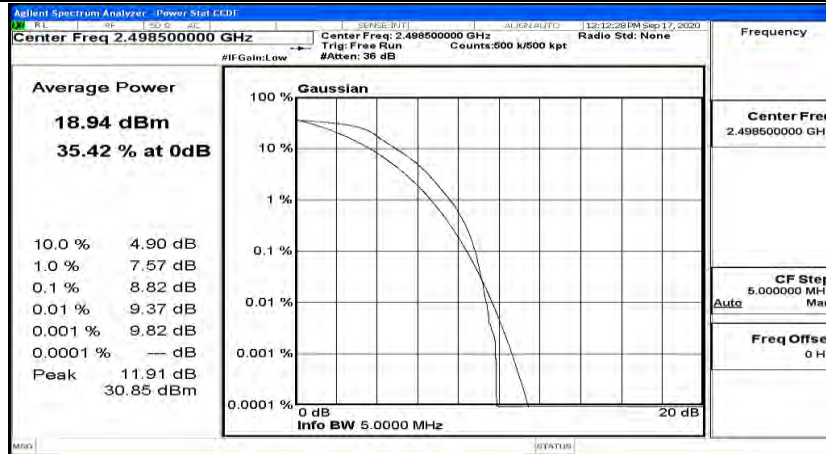
**Peak-to Average Ratio Test Result (Channel Bandwidth: 15 MHz)**

Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	9.88	<13	PASS
	MCH	8.15	<13	PASS
	HCH	9.13	<13	PASS
16QAM	LCH	9.61	<13	PASS
	MCH	10.28	<13	PASS
	HCH	10.92	<13	PASS

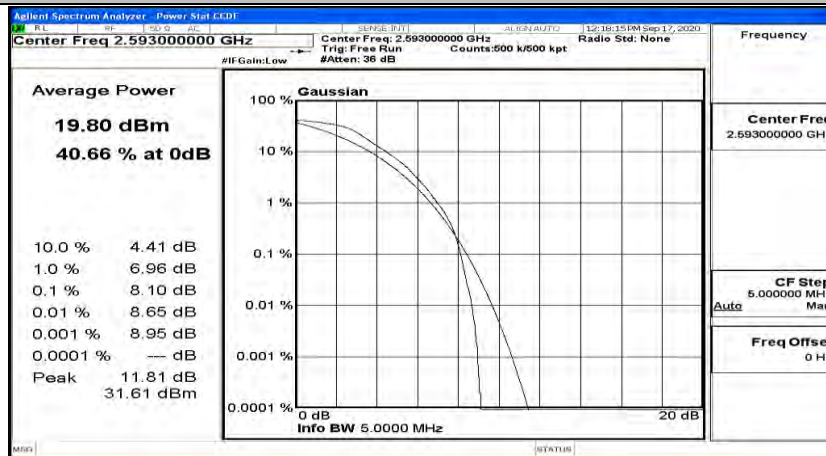
**Peak-to Average Ratio Test Result (Channel Bandwidth: 20 MHz)**

Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	10.38	<13	PASS
	MCH	8.69	<13	PASS
	HCH	9.58	<13	PASS
16QAM	LCH	9.66	<13	PASS
	MCH	10.21	<13	PASS
	HCH	10.69	<13	PASS

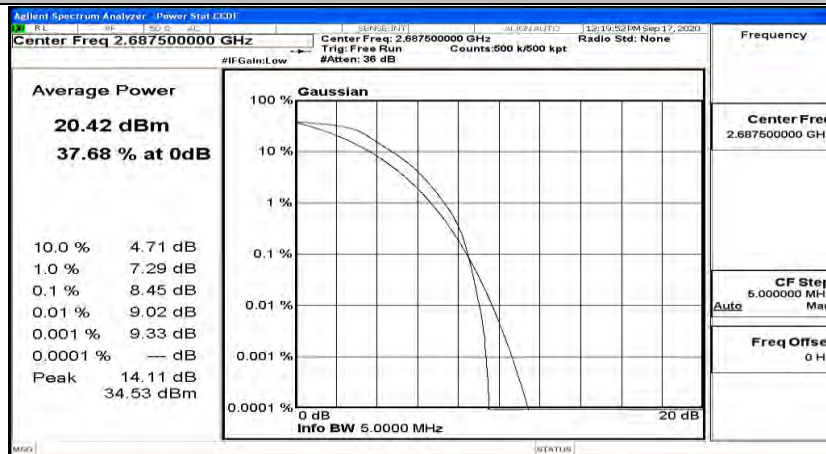
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)\_LCH\_QPSK



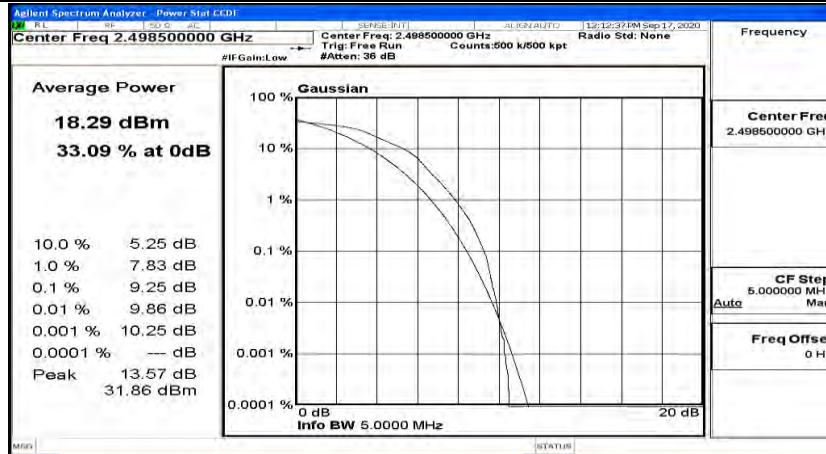
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)\_MCH\_QPSK



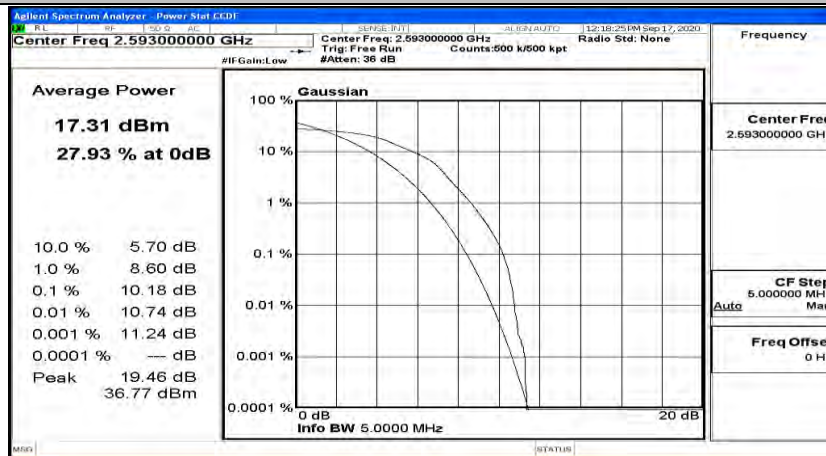
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)\_HCH\_QPSK



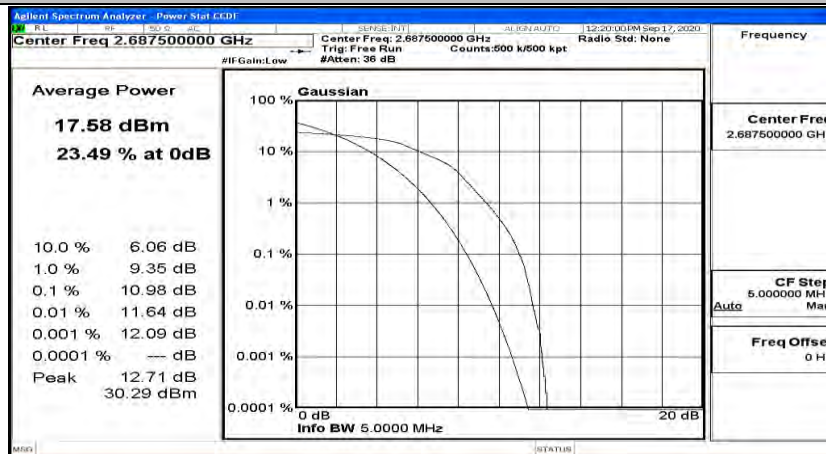
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)\_LCH\_16QAM



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

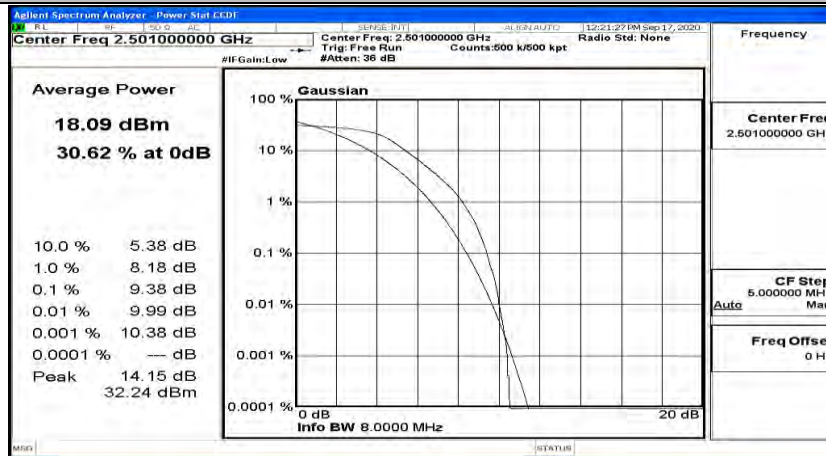


## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)\_HCH\_16QAM

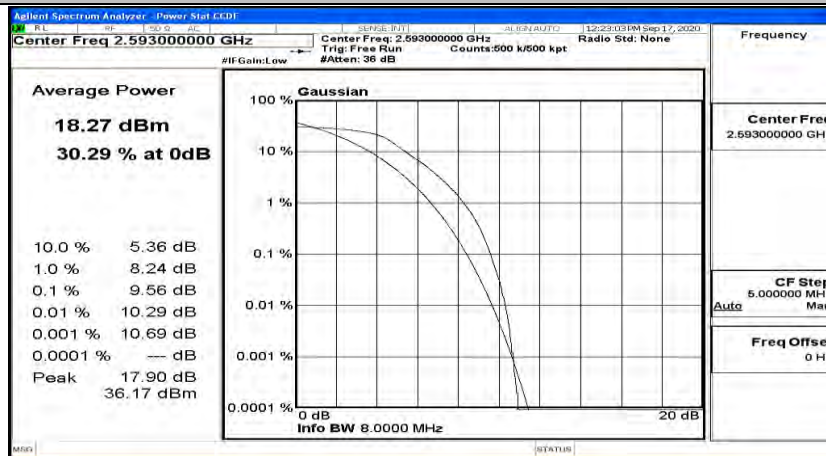




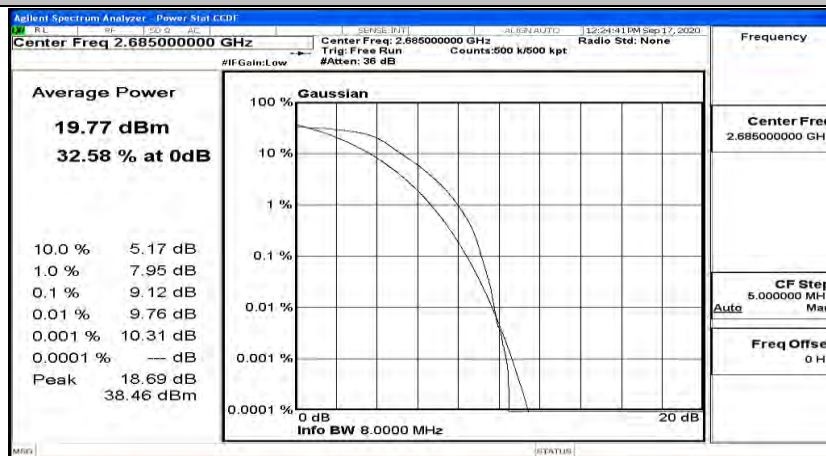
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz) \_LCH\_QPSK



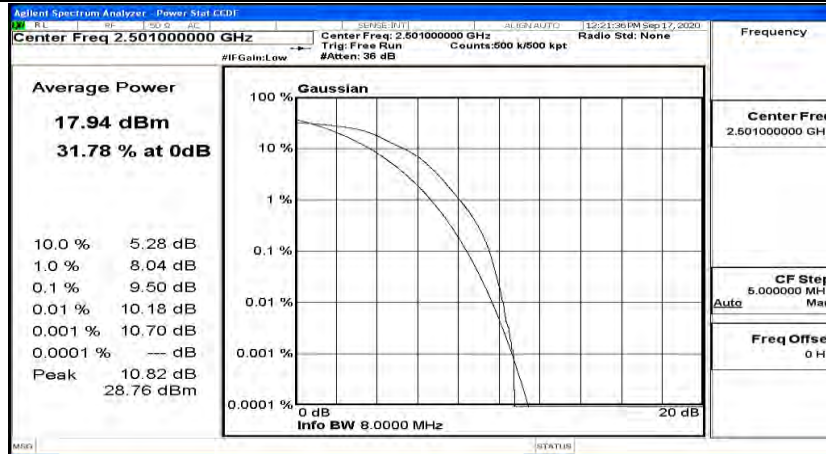
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz) \_MCH\_QPSK



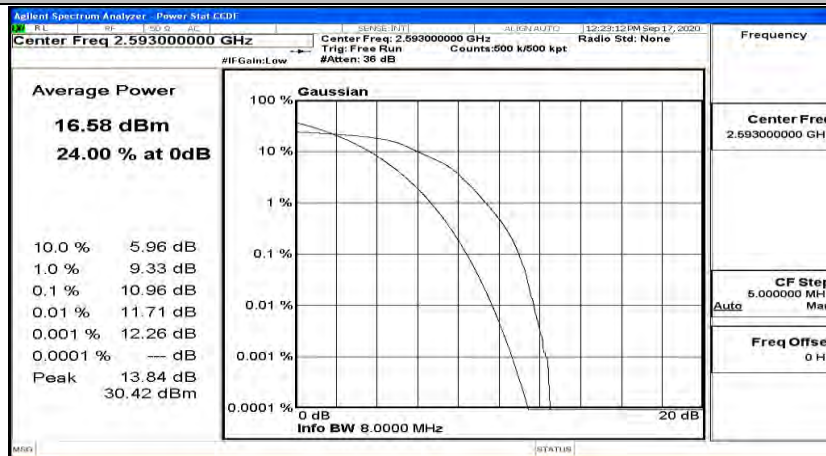
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz) \_HCH\_QPSK



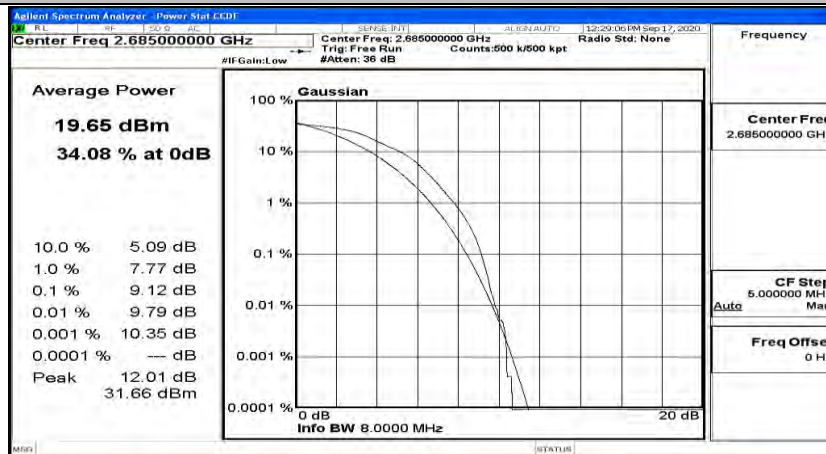
## Peak-to-Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)\_LCH\_16QAM



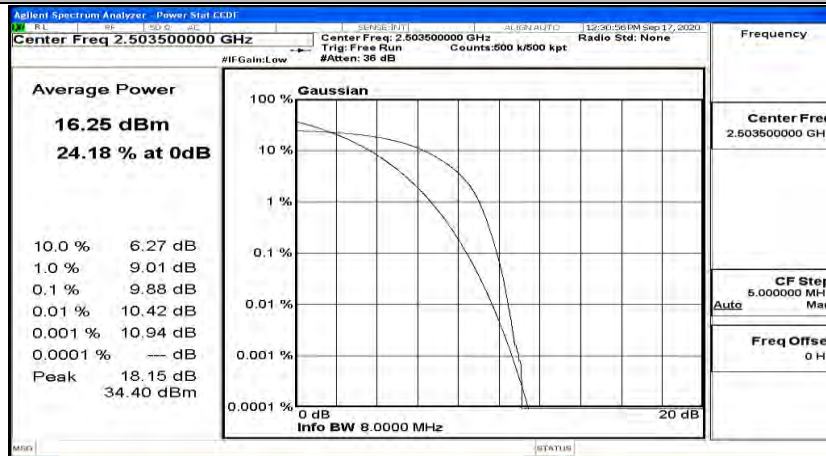
## Peak-to-Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)\_MCH\_16QAM



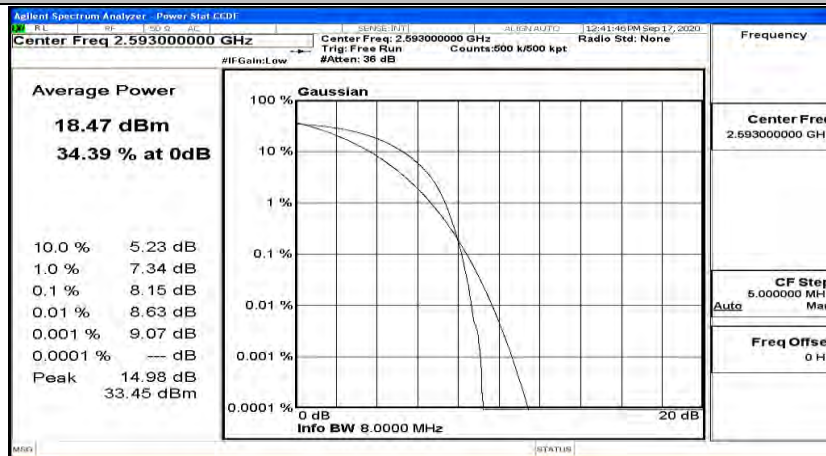
## Peak-to-Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)\_HCH\_16QAM



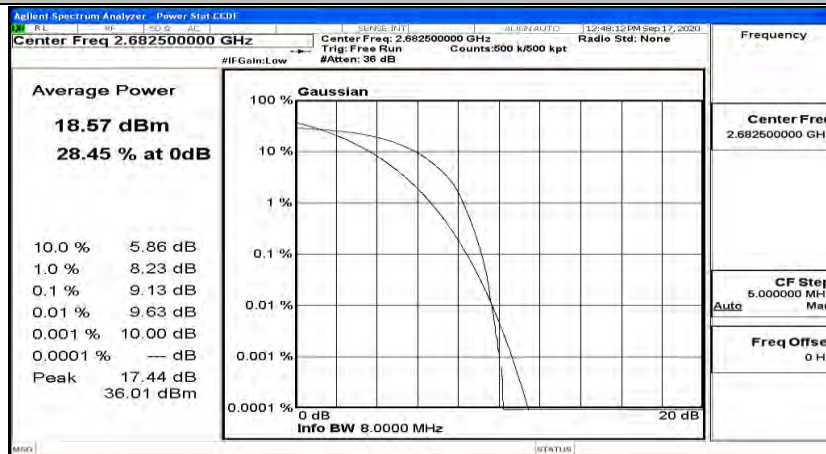
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)\_LCH\_QPSK



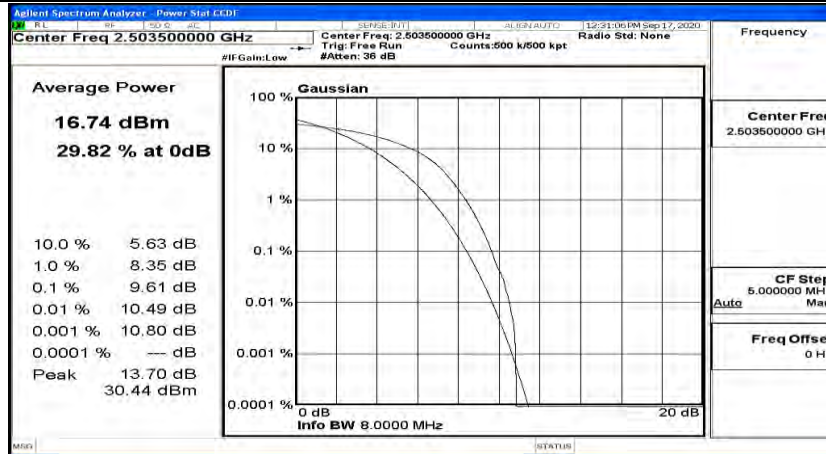
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)\_MCH\_QPSK



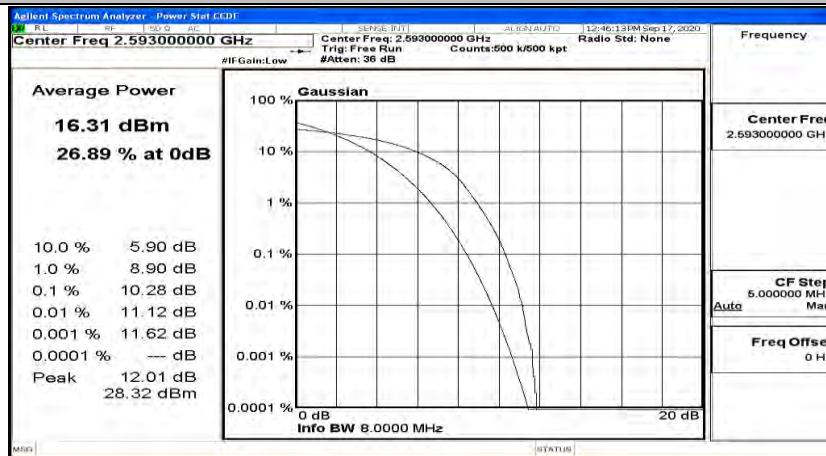
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)\_HCH\_QPSK



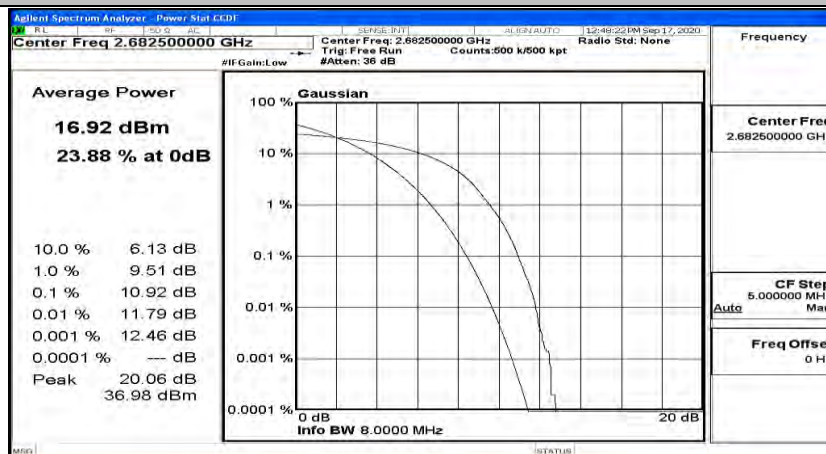
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)\_LCH\_16QAM



## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)\_MCH\_16QAM

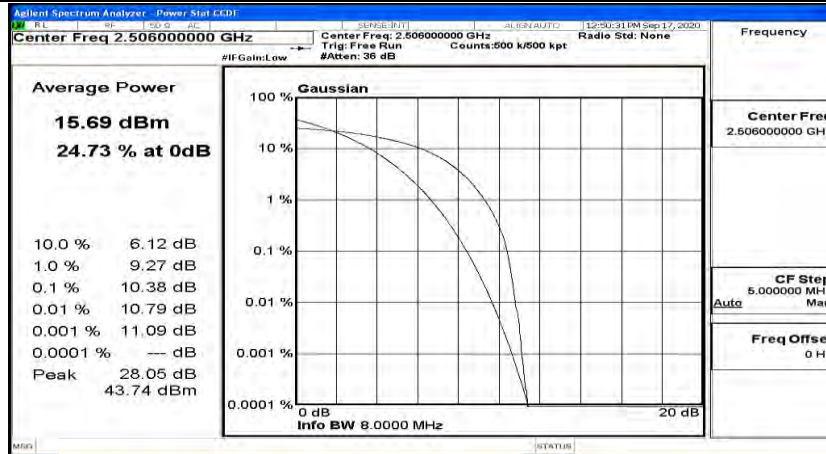


## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)\_HCH\_16QAM

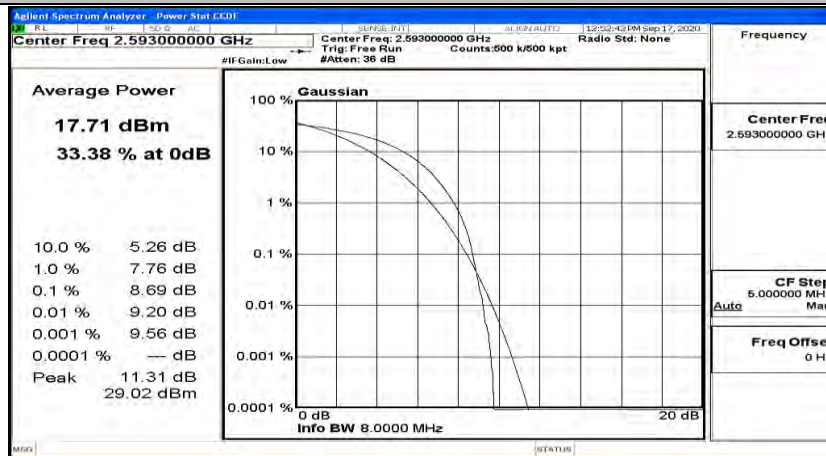




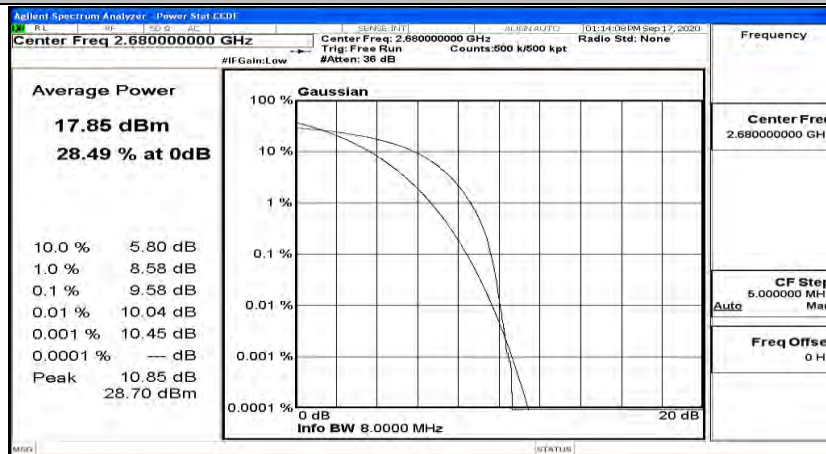
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)\_LCH\_QPSK



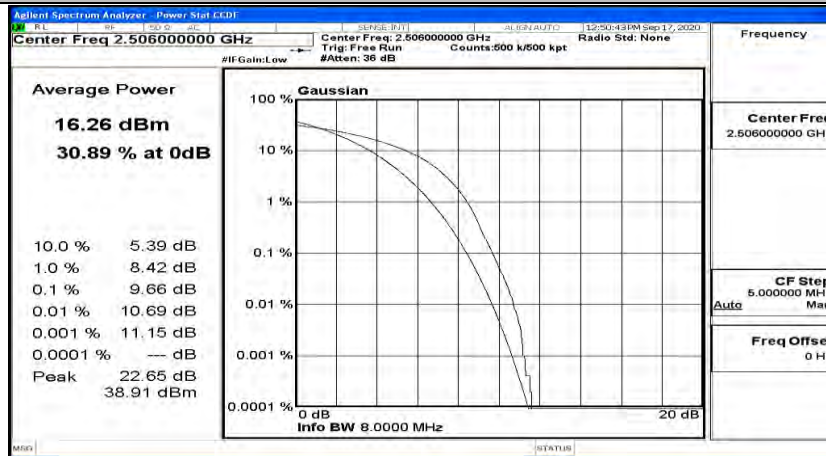
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)\_MCH\_QPSK



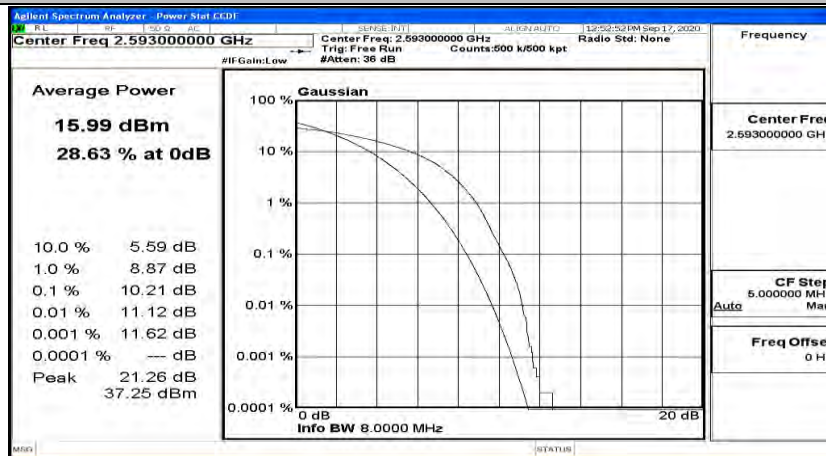
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)\_HCH\_QPSK



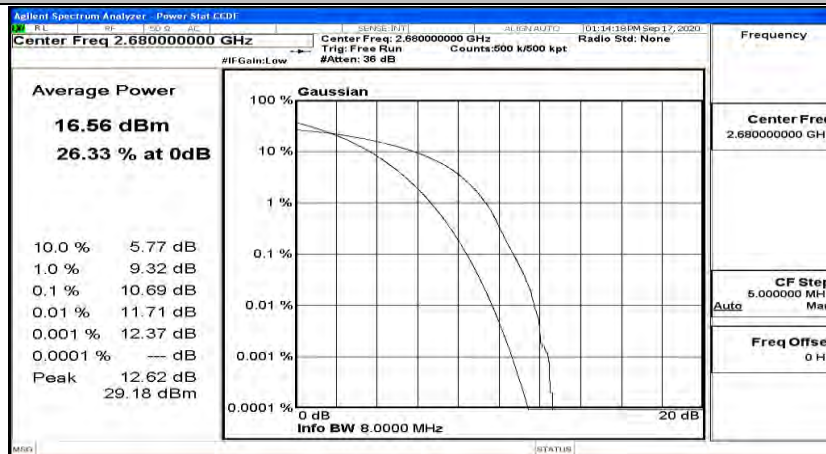
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)\_LCH\_16QAM



## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)\_MCH\_16QAM



## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)\_HCH\_16QAM



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

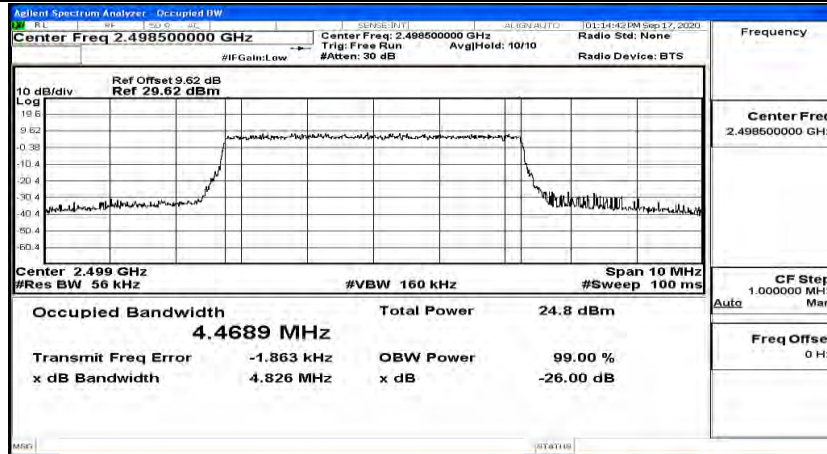
EBW & OBW Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	4.4689	4.826	PASS
	MCH	4.4617	4.805	PASS
	HCH	4.4821	4.731	PASS
16QAM	LCH	4.4644	4.743	PASS
	MCH	4.4760	4.770	PASS
	HCH	4.4665	4.742	PASS

EBW & OBW Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	8.9083	9.368	PASS
	MCH	8.9151	9.374	PASS
	HCH	8.9304	9.434	PASS
16QAM	LCH	8.9148	9.389	PASS
	MCH	8.9213	9.354	PASS
	HCH	8.8993	9.390	PASS

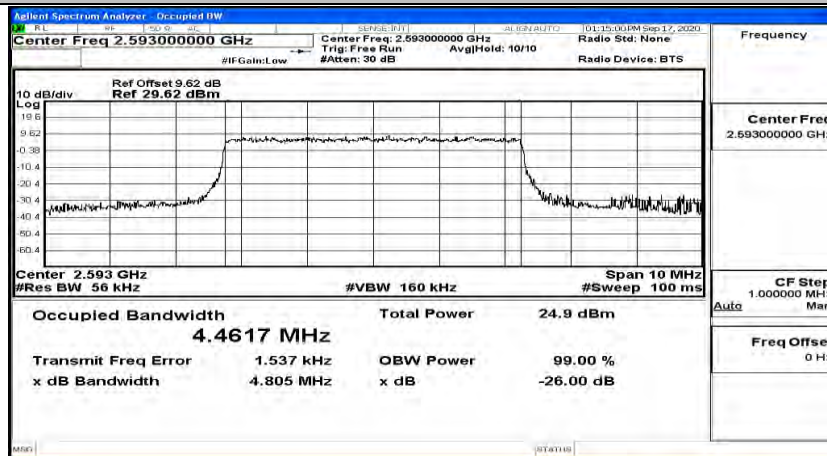
EBW & OBW Test Result (Channel Bandwidth: 15 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	13.367	13.97	PASS
	MCH	13.363	14.00	PASS
	HCH	13.356	13.93	PASS
16QAM	LCH	13.376	13.95	PASS
	MCH	13.377	14.03	PASS
	HCH	13.380	13.99	PASS

EBW & OBW Test Result (Channel Bandwidth: 20 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	17.826	18.49	PASS
	MCH	17.835	18.60	PASS
	HCH	17.805	18.53	PASS
16QAM	LCH	17.821	18.53	PASS
	MCH	17.798	18.53	PASS
	HCH	17.801	18.53	PASS

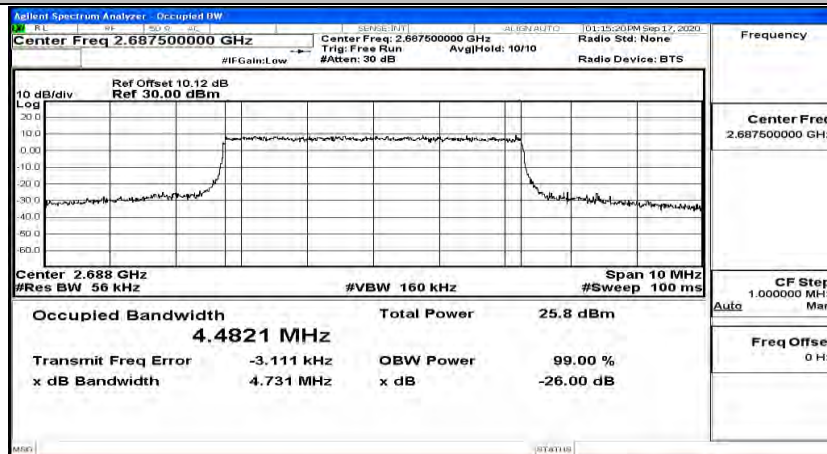
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 5 MHz)\_LCH\_QPSK



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

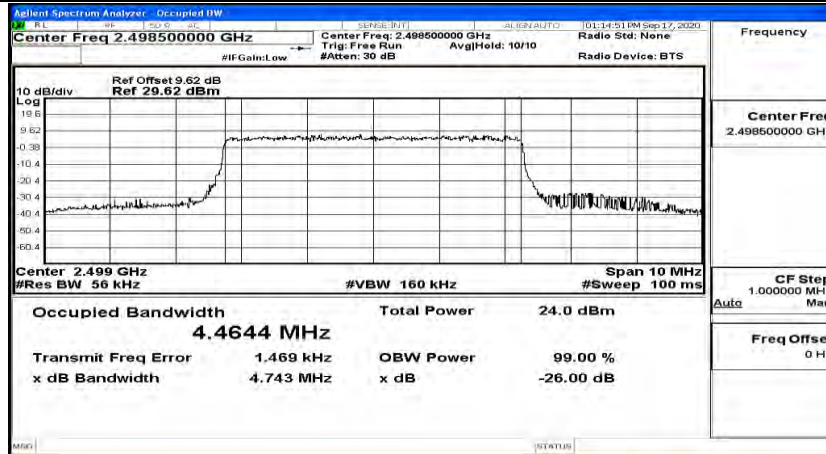


## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 5 MHz)\_HCH\_QPSK

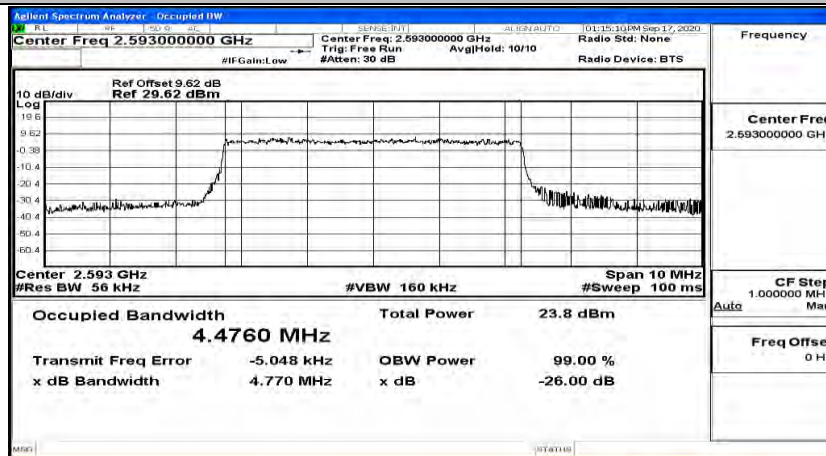




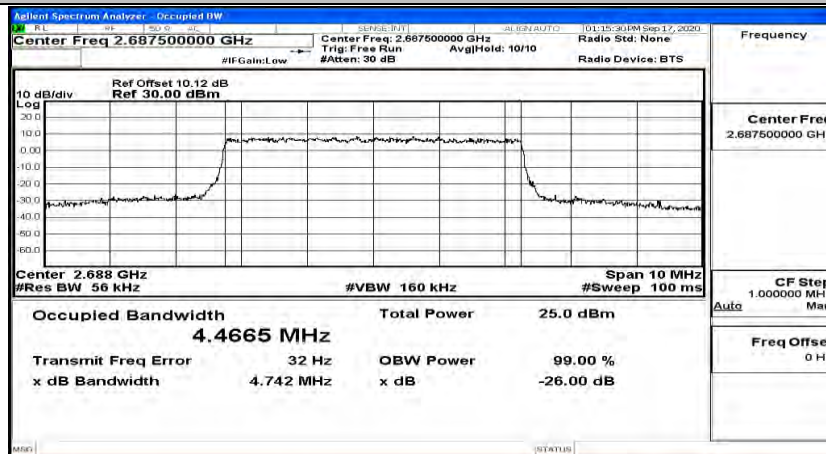
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 5 MHz)\_LCH\_16QAM



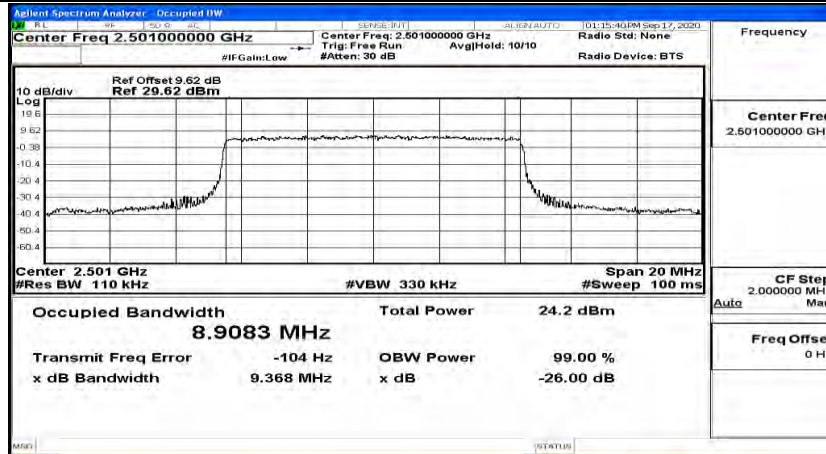
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 5 MHz)\_MCH\_16QAM



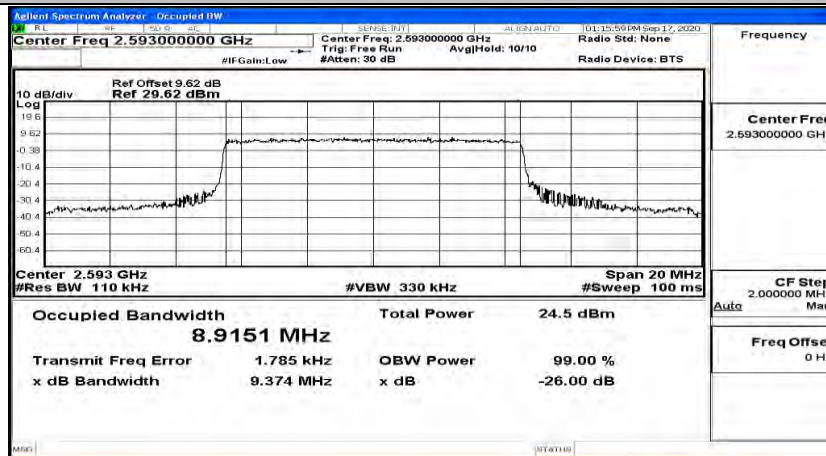
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 5 MHz)\_HCH\_16QAM



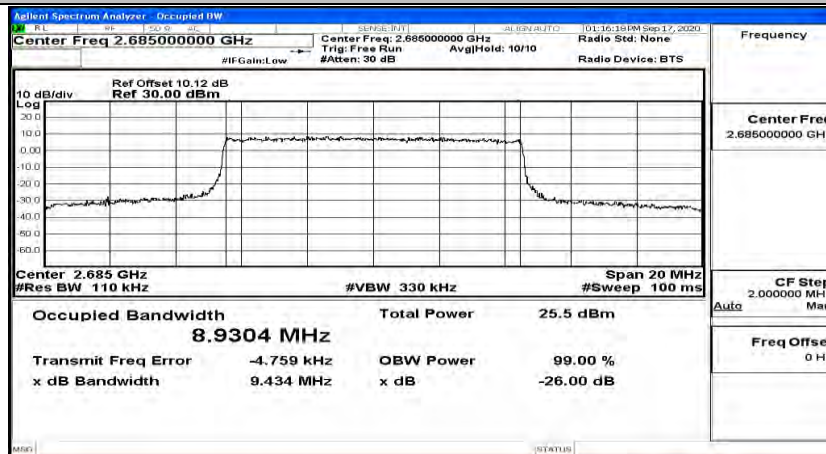
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 10 MHz)\_LCH\_QPSK



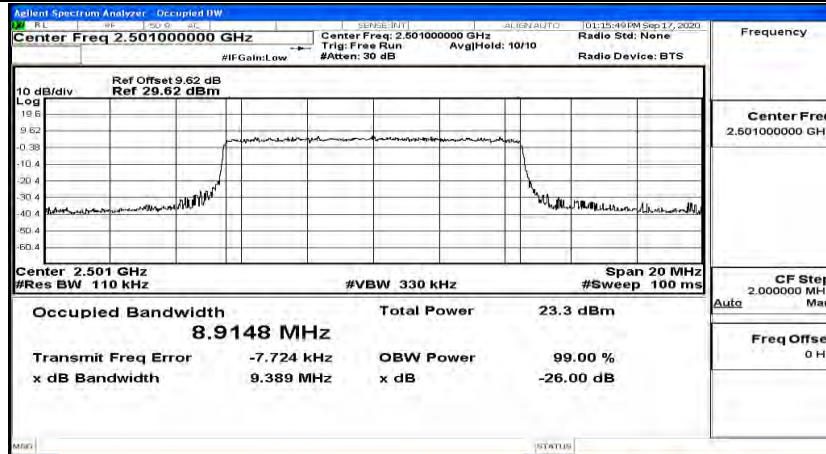
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 10 MHz)\_MCH\_QPSK



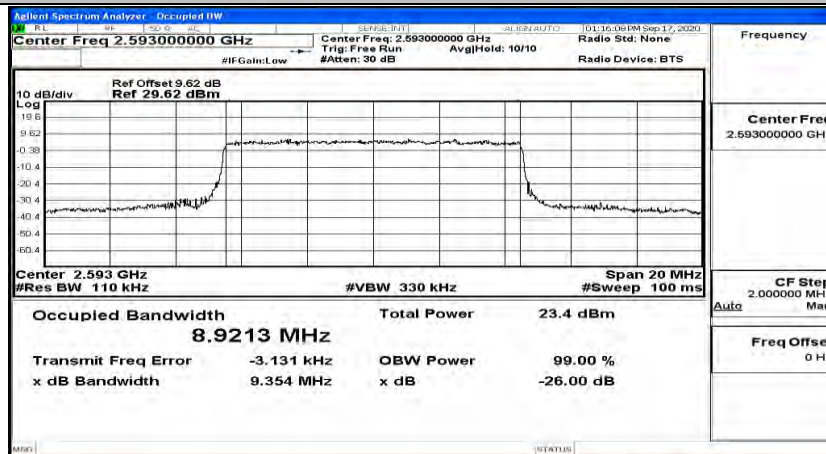
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 10 MHz)\_HCH\_QPSK



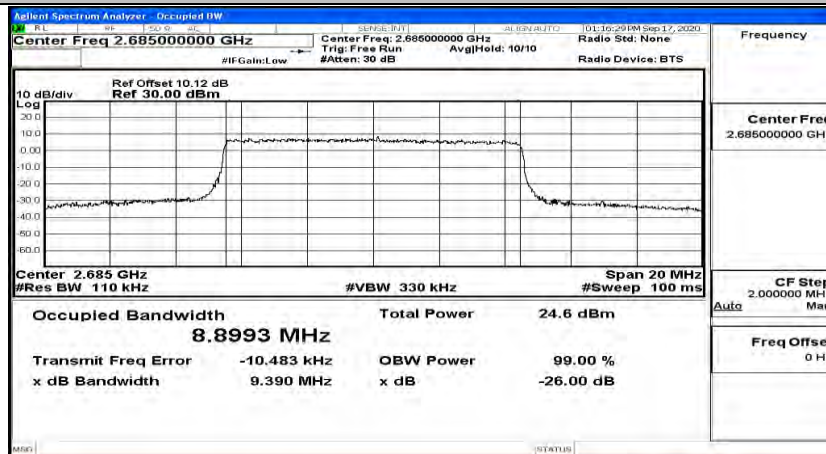
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 10 MHz)\_LCH\_16QAM



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

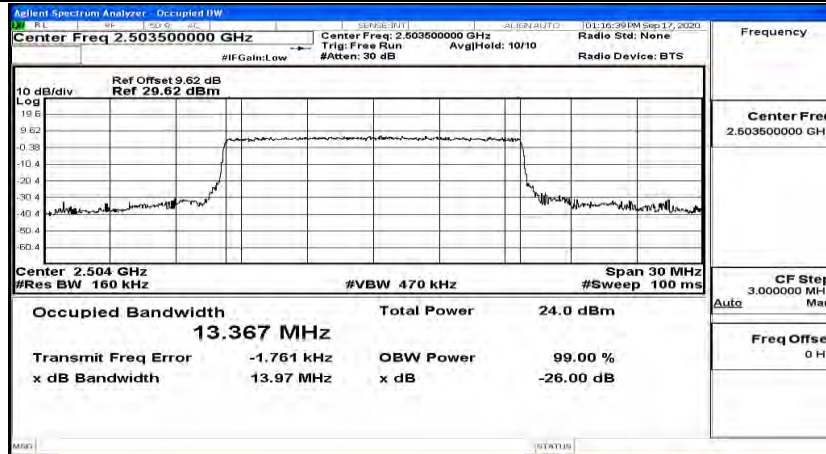


## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 10 MHz)\_HCH\_16QAM

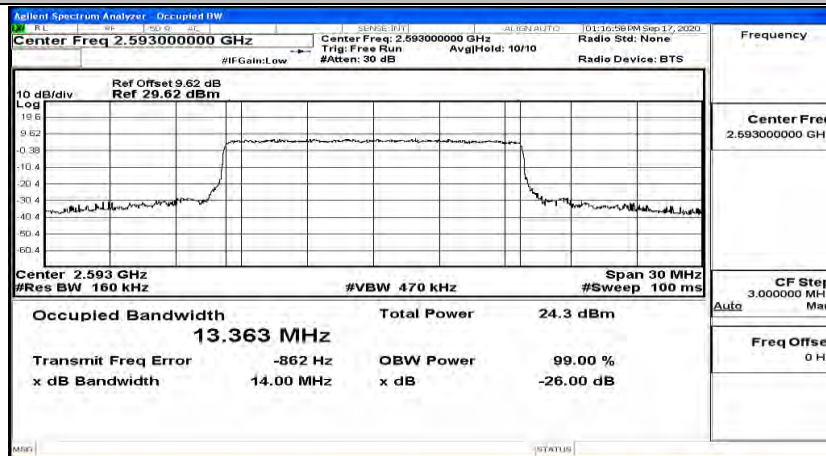




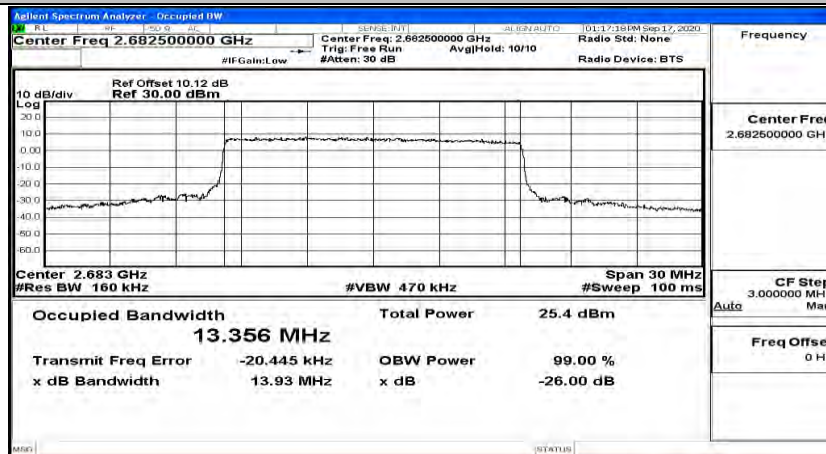
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth:15 MHz)\_LCH\_QPSK



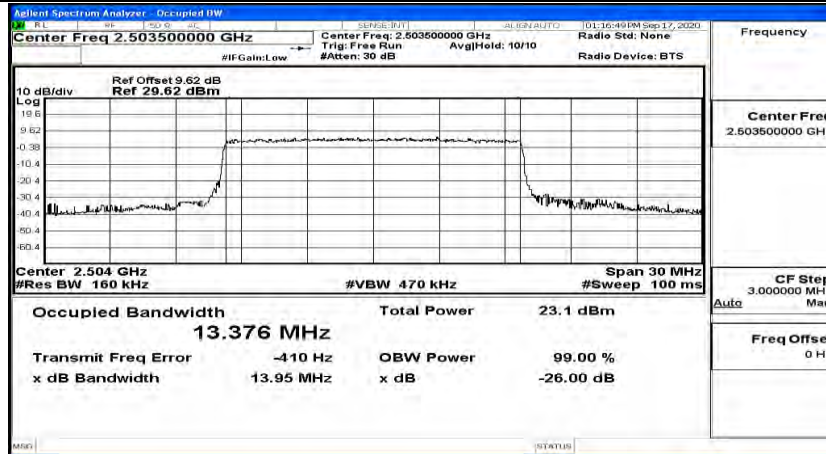
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth:15 MHz)\_MCH\_QPSK



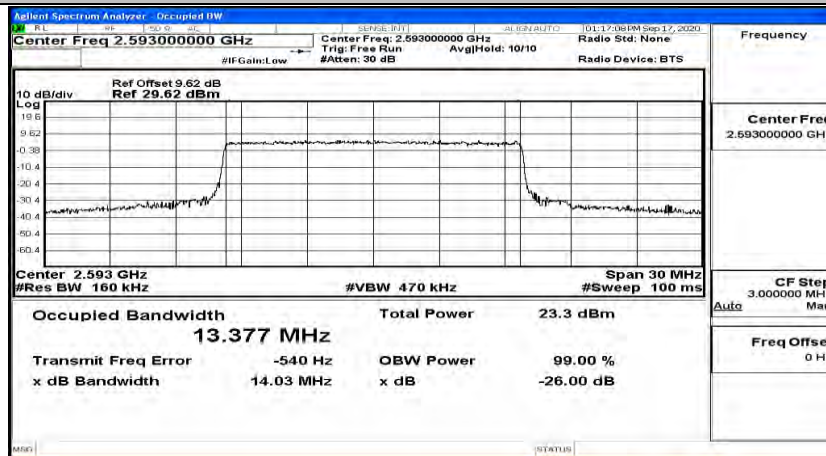
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth:15 MHz)\_HCH\_QPSK



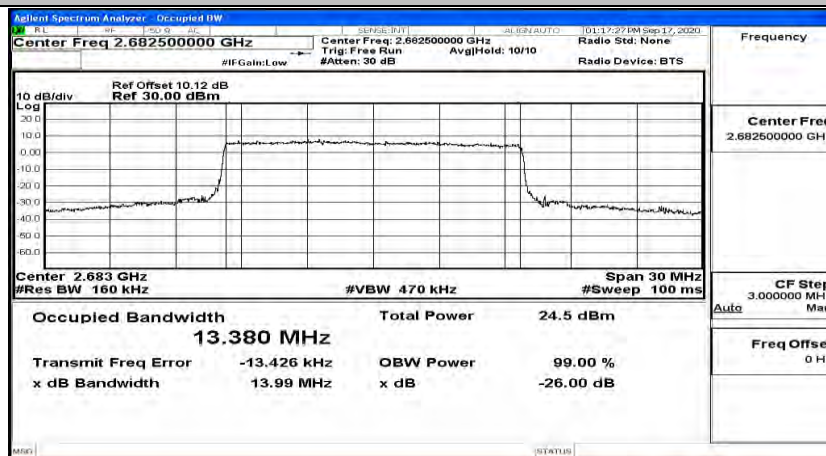
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth:15 MHz)\_LCH\_16QAM



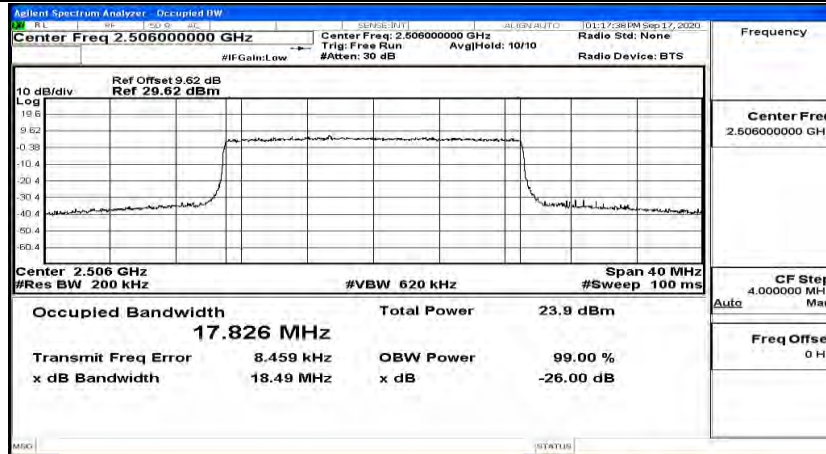
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth:15 MHz)\_MCH\_16QAM



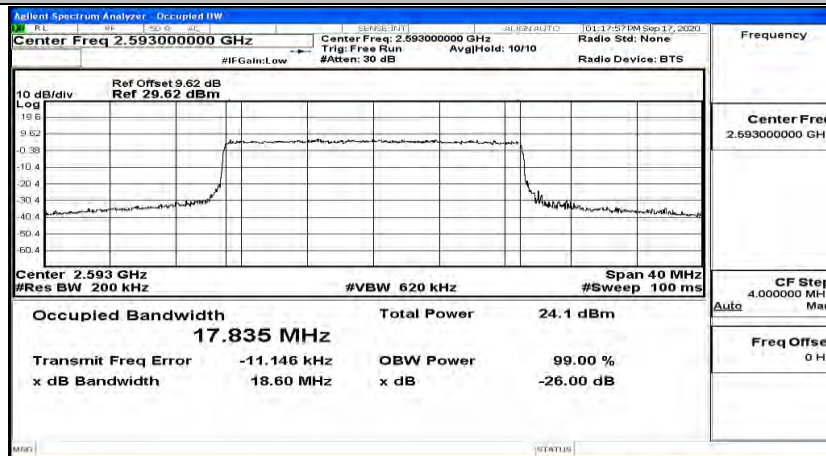
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth:15 MHz)\_HCH\_16QAM



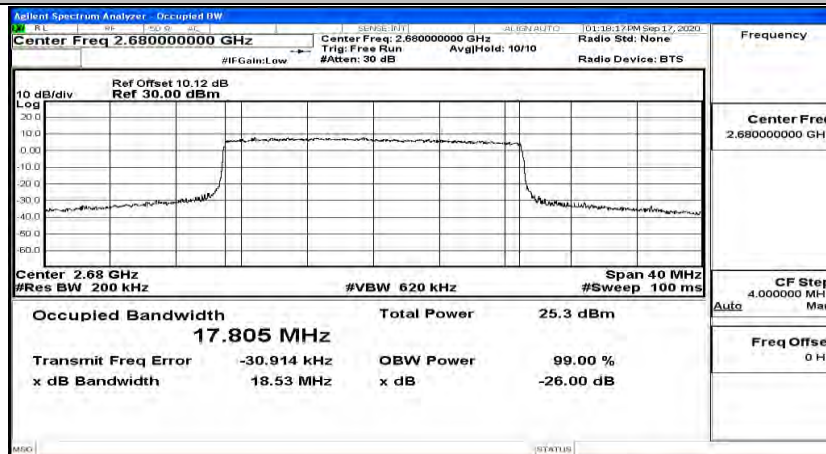
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth:20 MHz)\_LCH\_QPSK



## EBW &amp; OBW Test Graph(s) (Channel Bandwidth:20 MHz)\_MCH\_QPSK

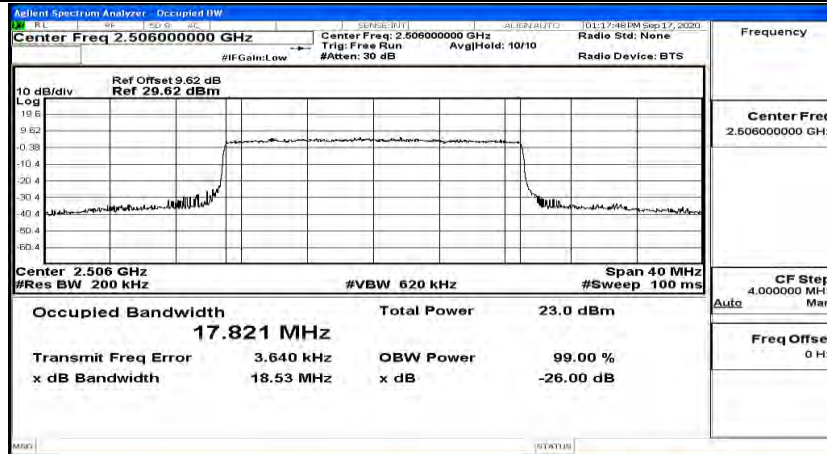


## EBW &amp; OBW Test Graph(s) (Channel Bandwidth:20 MHz)\_HCH\_QPSK

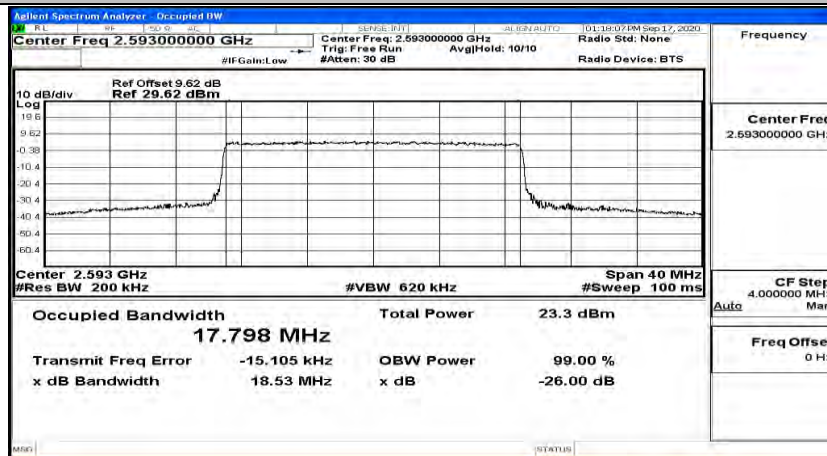




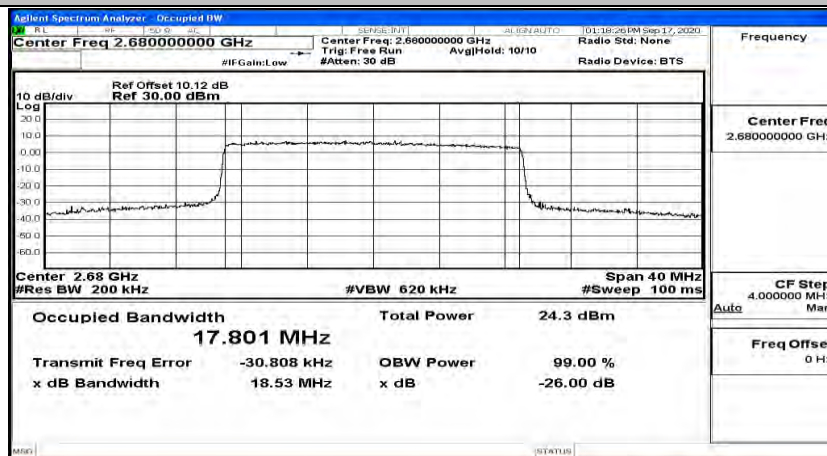
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth:20 MHz)\_LCH\_16QAM



## EBW &amp; OBW Test Graph(s) (Channel Bandwidth:20 MHz)\_MCH\_16QAM



## EBW &amp; OBW Test Graph(s) (Channel Bandwidth:20 MHz)\_HCH\_16QAM

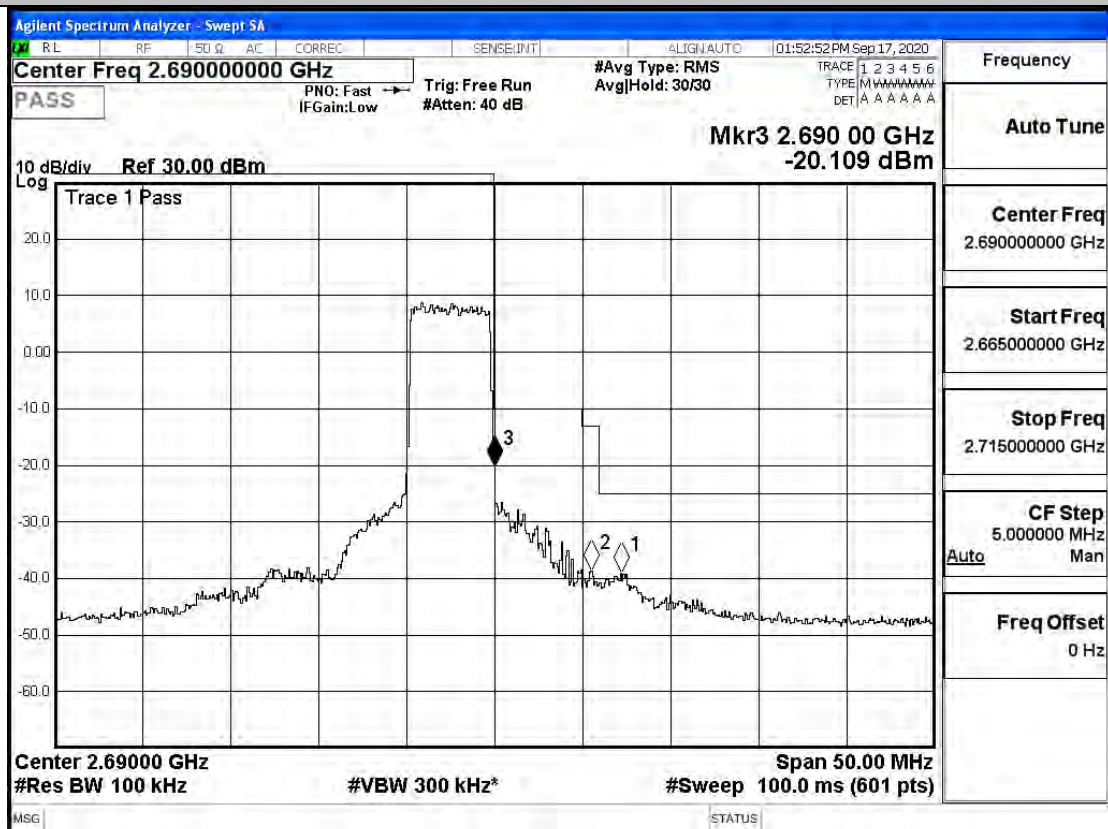


**E.4 Band Edge**

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

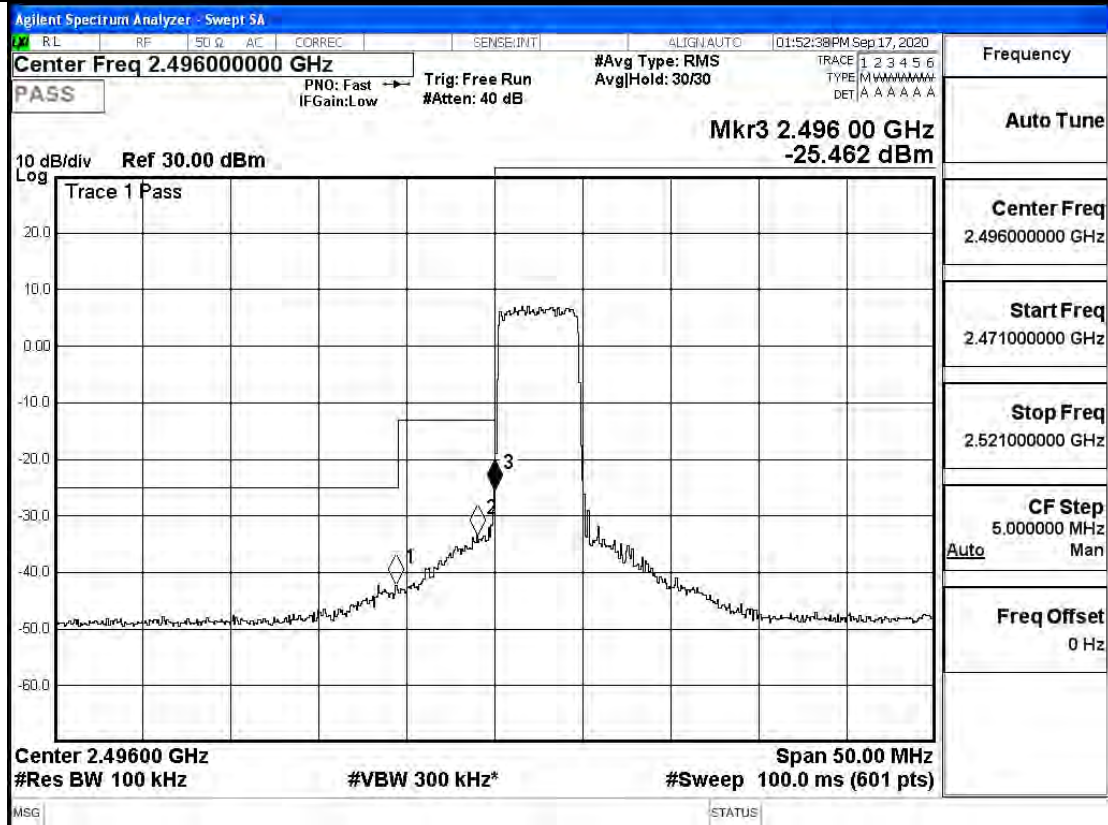


Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)\_HCH\_QPSK

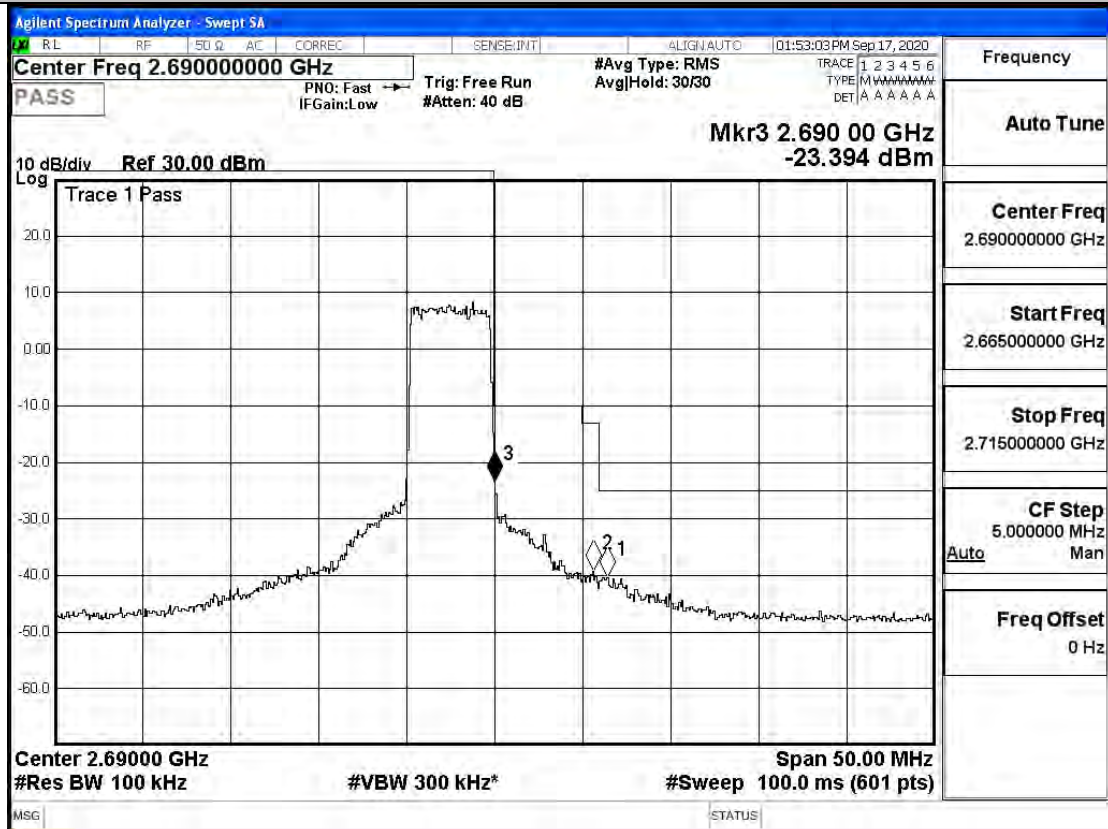




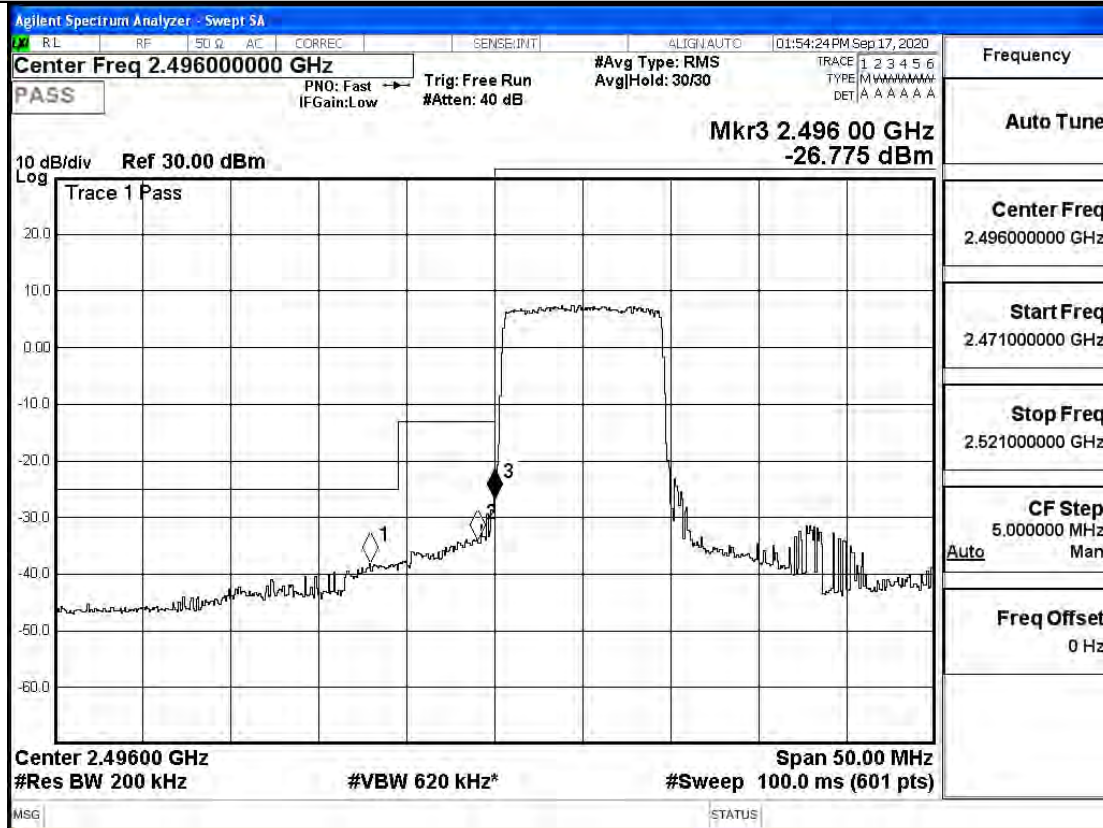
## Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)\_LCH\_16QAM



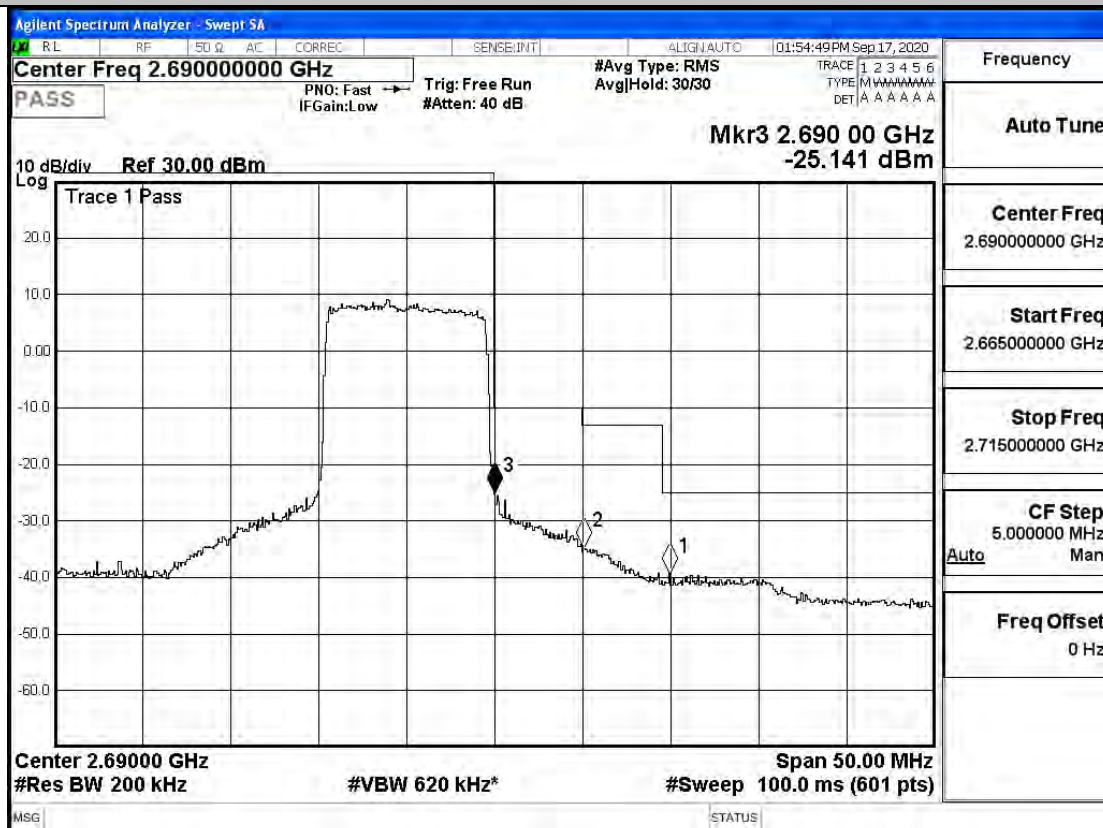
## Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)\_HCH\_16QAM



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



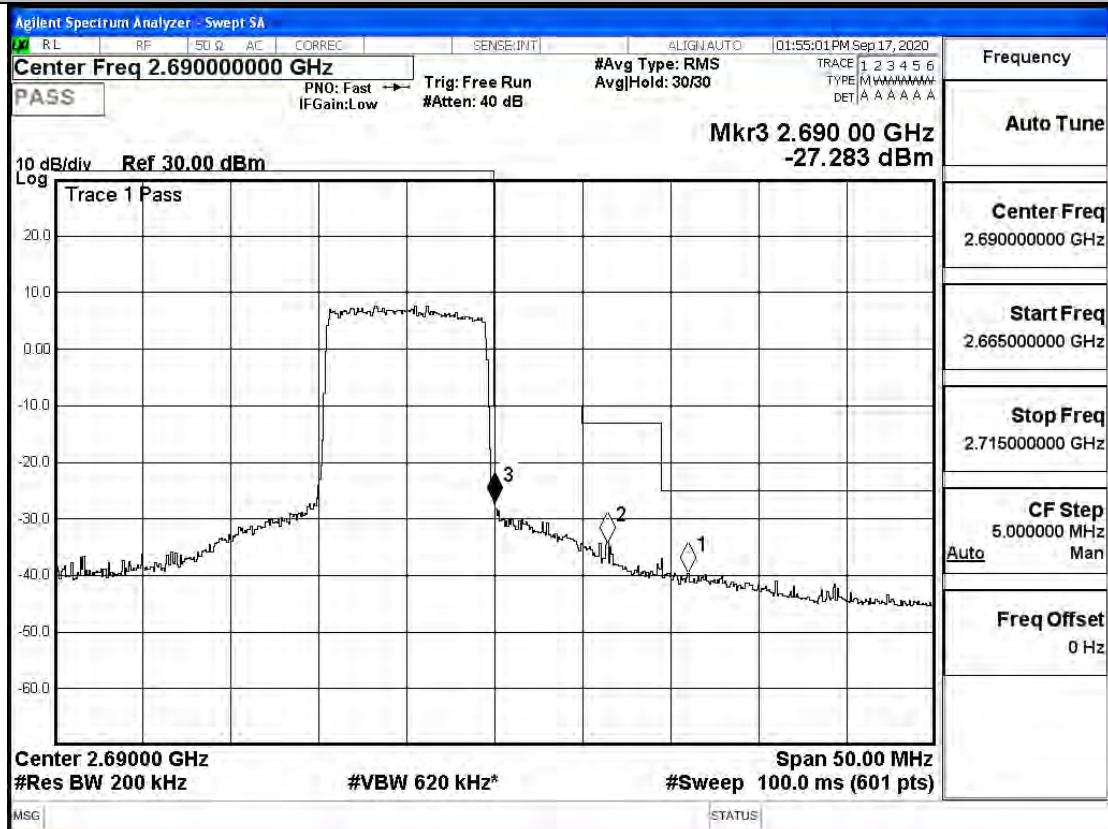
## Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)\_HCH\_QPSK



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

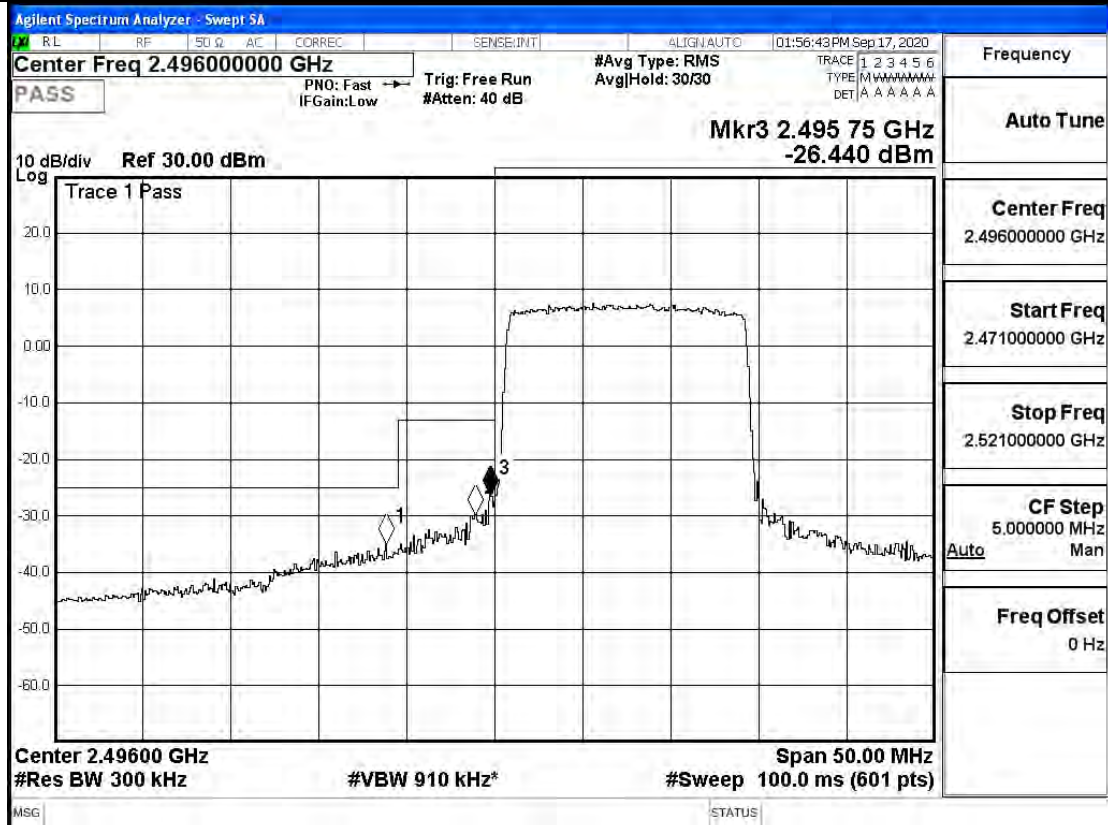


## Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)\_HCH\_16QAM

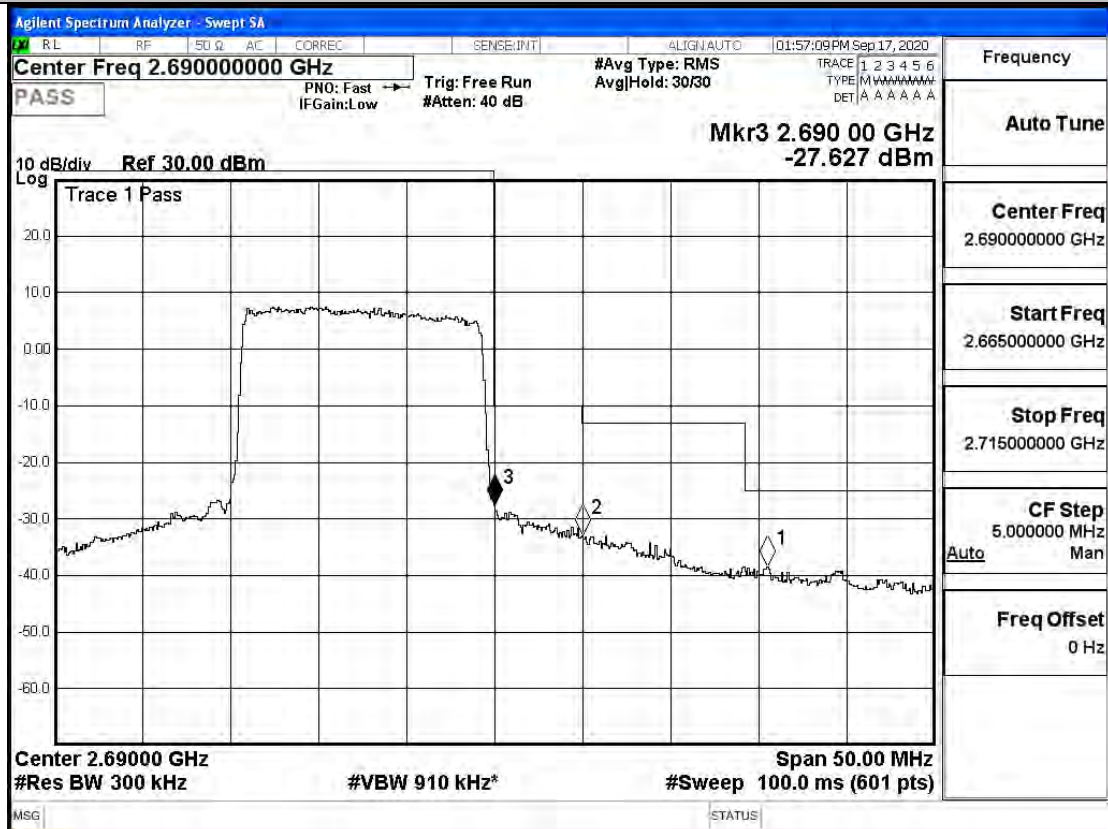




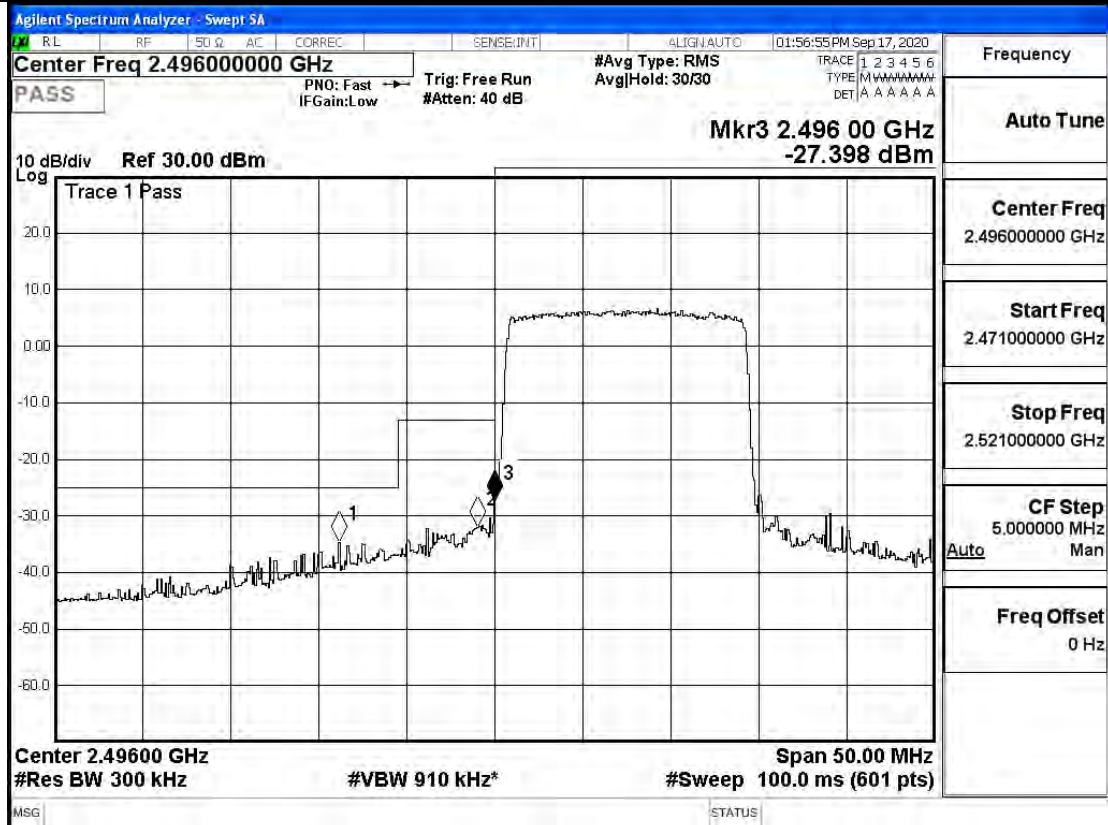
## Band Edge Test Graph(s) (Channel Bandwidth:15 MHz)\_LCH\_QPSK



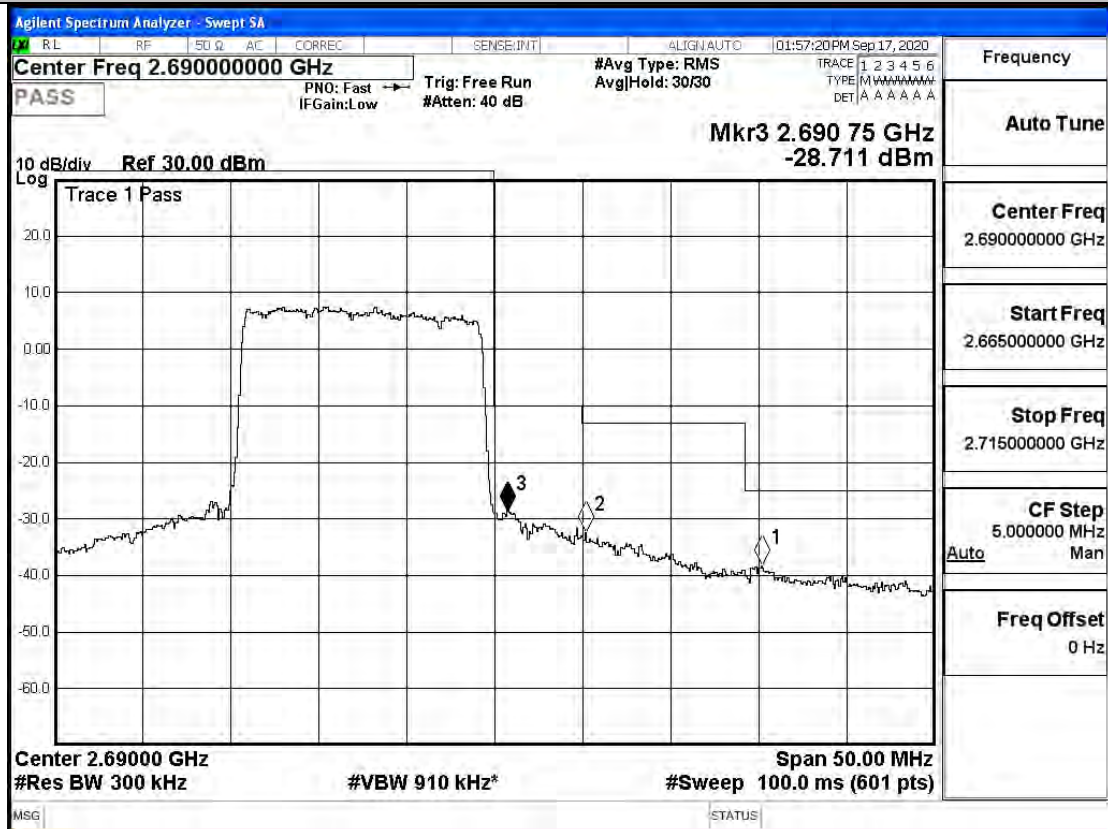
## Band Edge Test Graph(s) (Channel Bandwidth:15 MHz)\_HCH\_QPSK



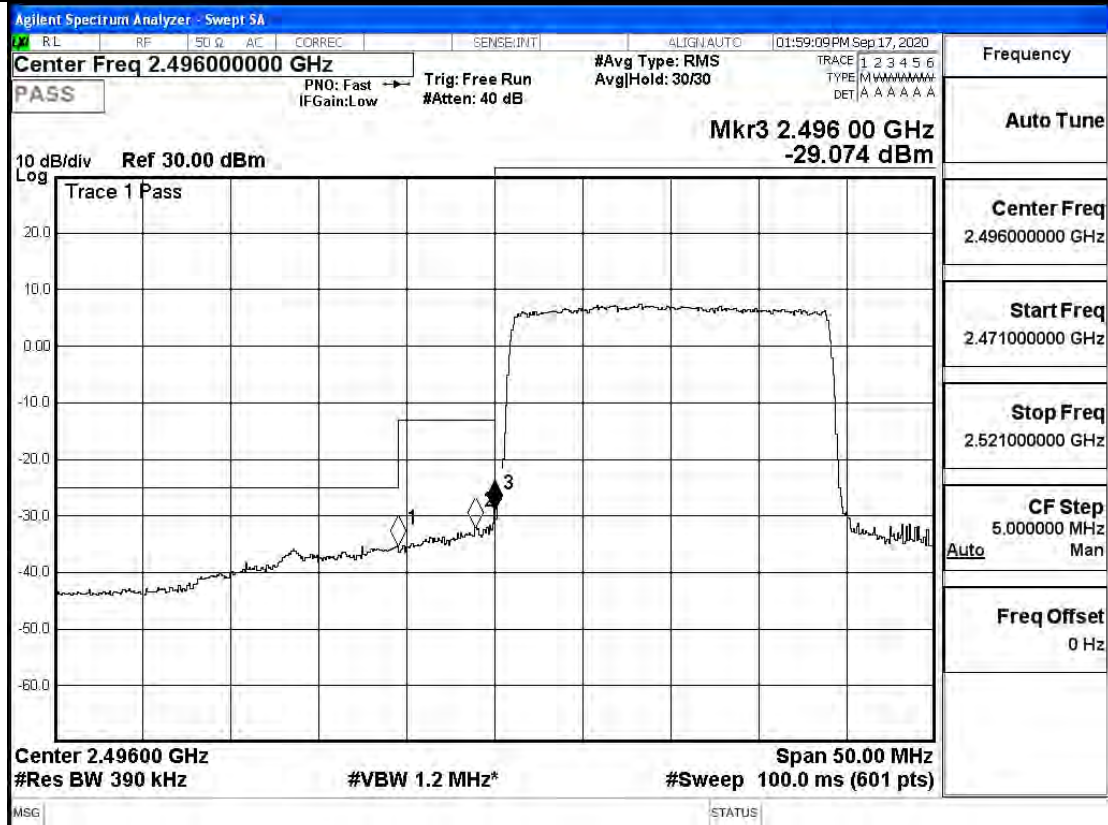
## Band Edge Test Graph(s) (Channel Bandwidth:15 MHz)\_LCH\_16QAM



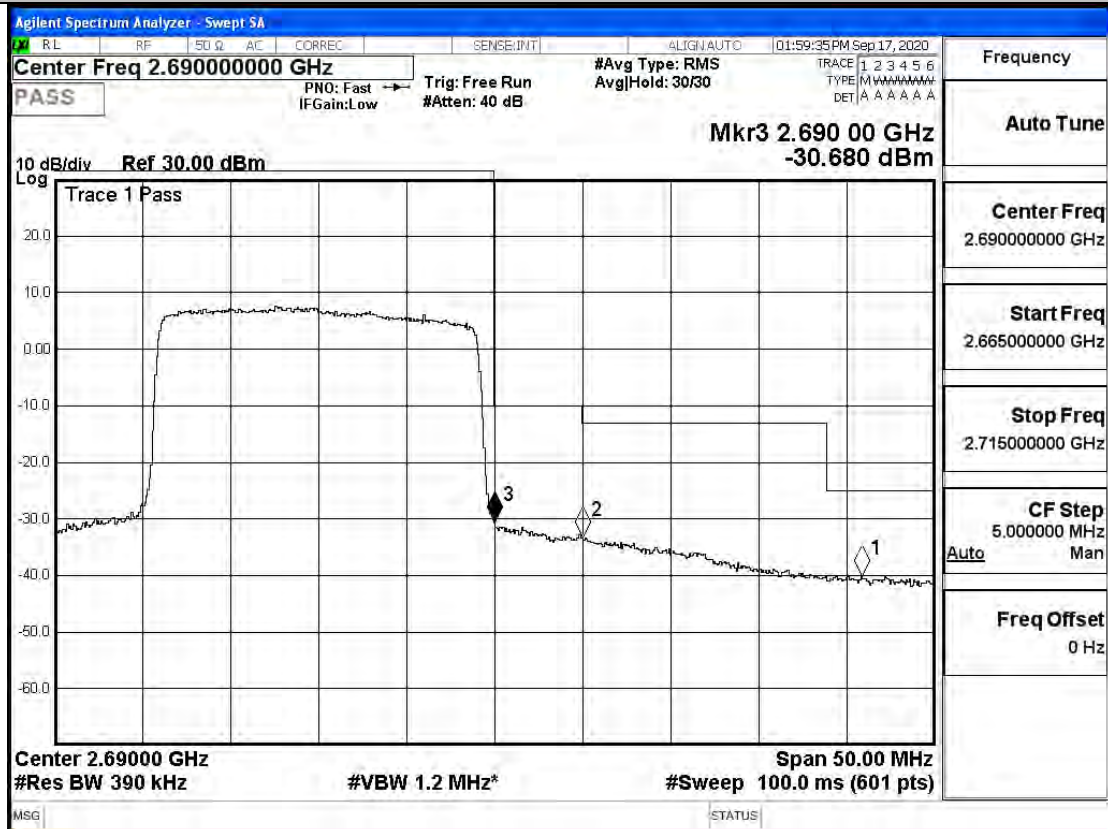
## Band Edge Test Graph(s) (Channel Bandwidth:15 MHz)\_HCH\_16QAM



## Band Edge Test Graph(s) (Channel Bandwidth:20 MHz)\_LCH\_QPSK

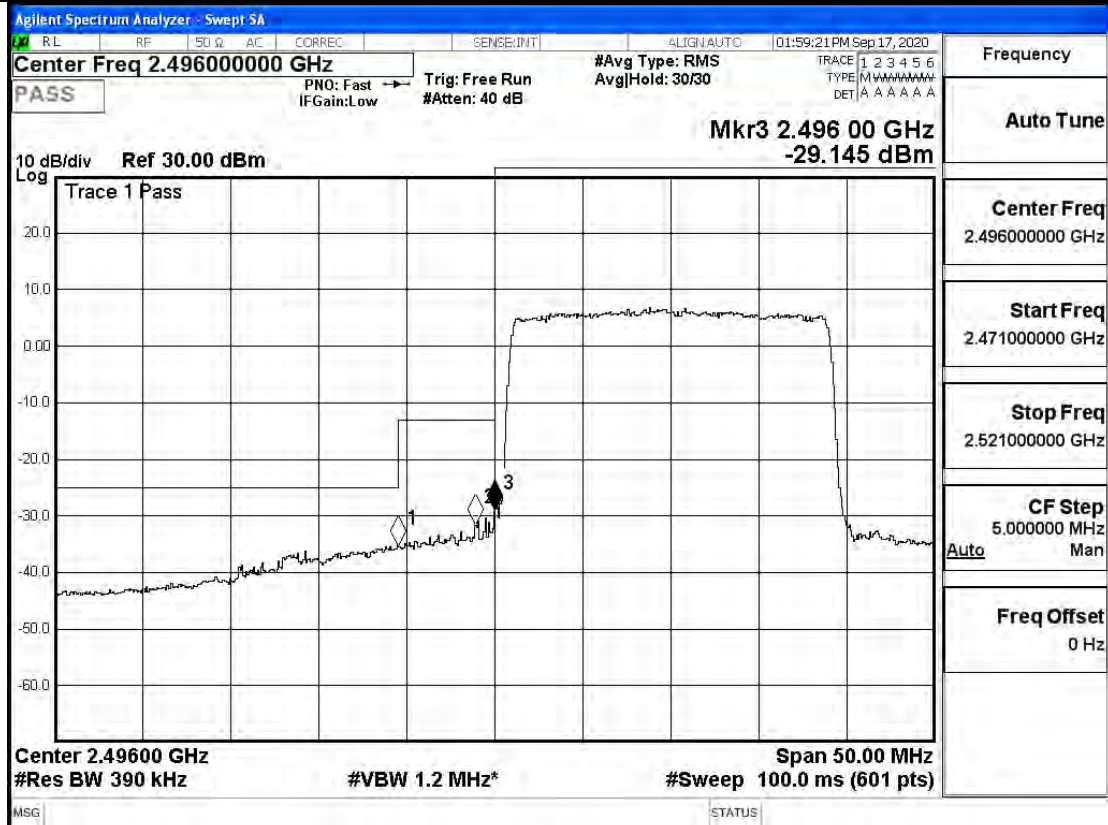


## Band Edge Test Graph(s) (Channel Bandwidth:20 MHz)\_HCH\_QPSK

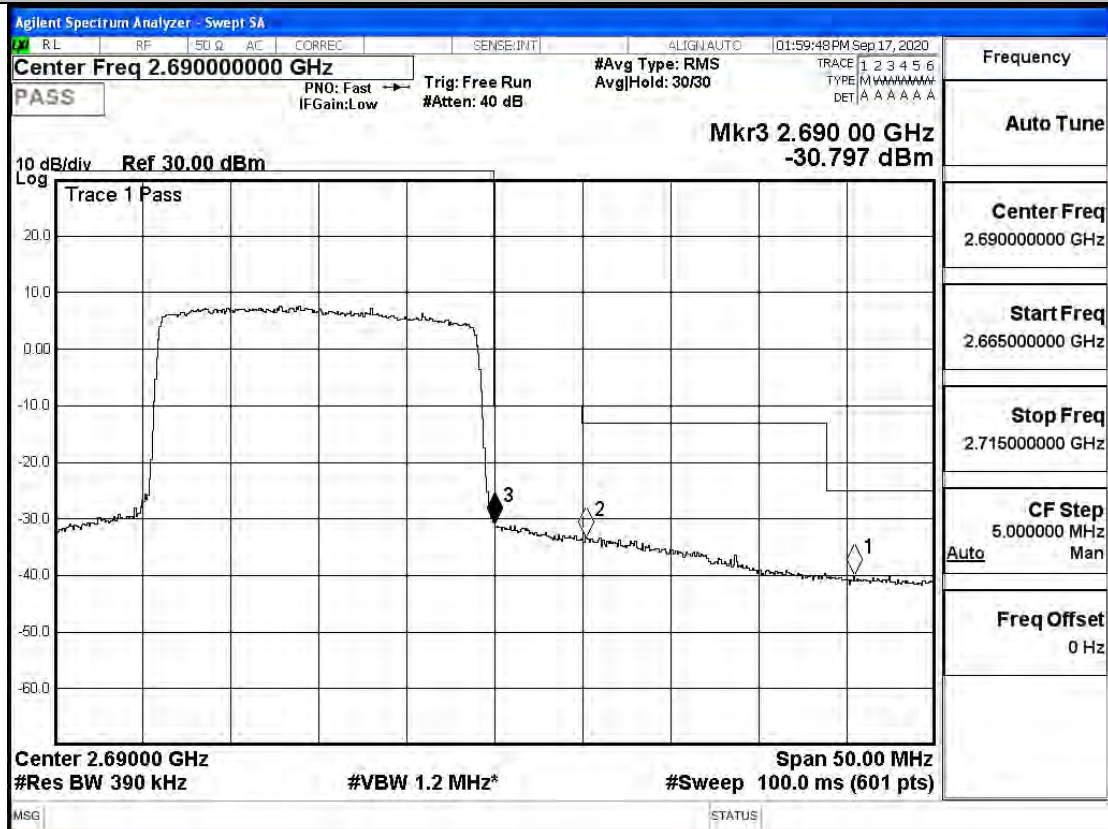




## Band Edge Test Graph(s) (Channel Bandwidth:20 MHz)\_LCH\_16QAM



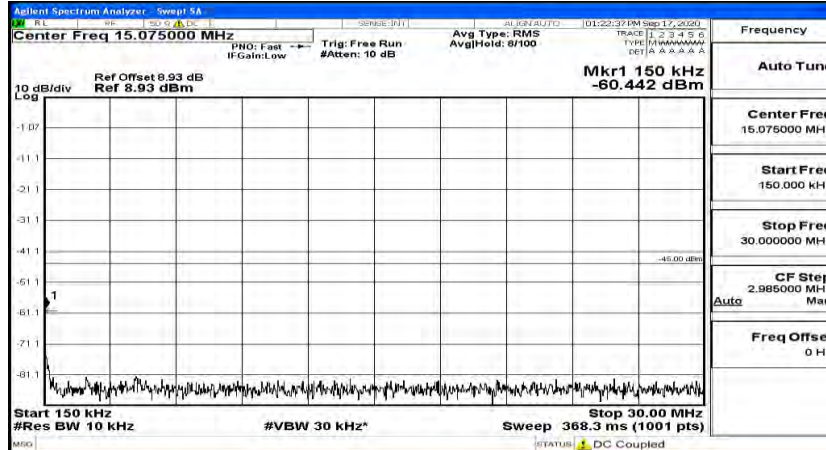
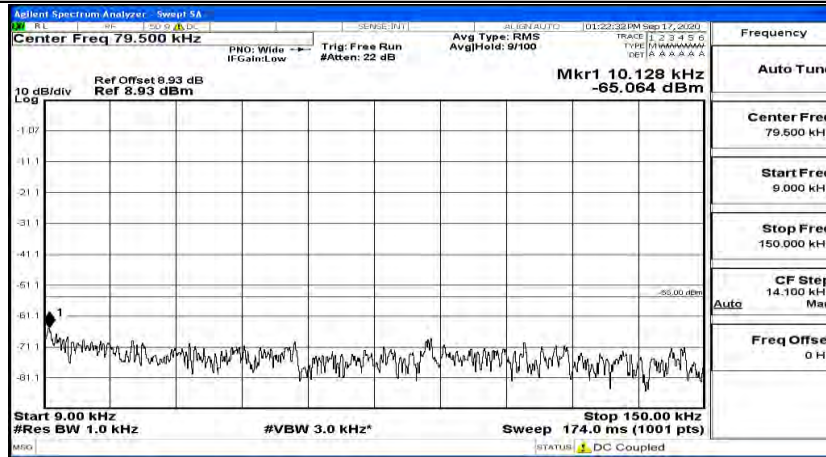
## Band Edge Test Graph(s) (Channel Bandwidth:20 MHz)\_HCH\_16QAM



## E.5 Conducted Spurious Emission

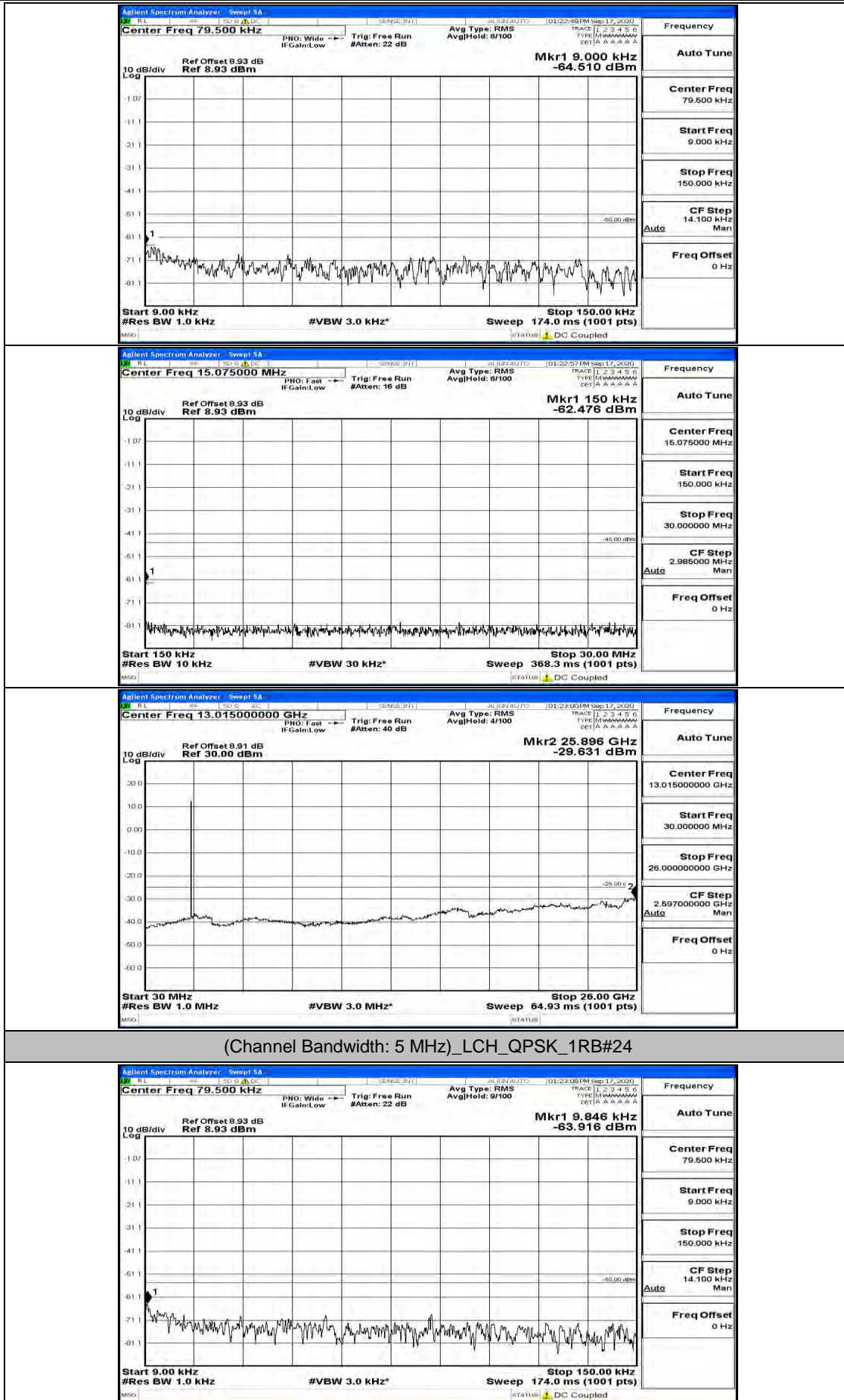
Channel Bandwidth: 5 MHz

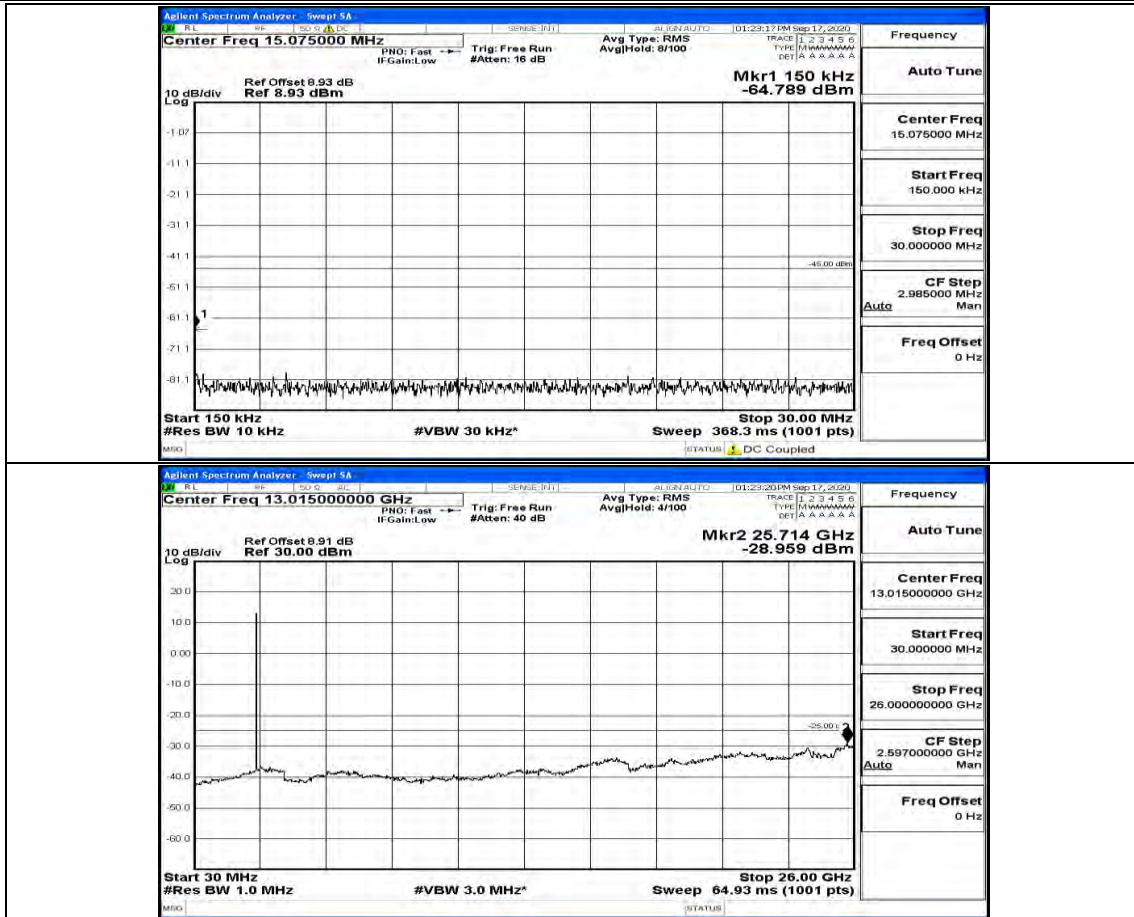
(Channel Bandwidth: 5 MHz)\_LCH\_QPSK\_1RB#0



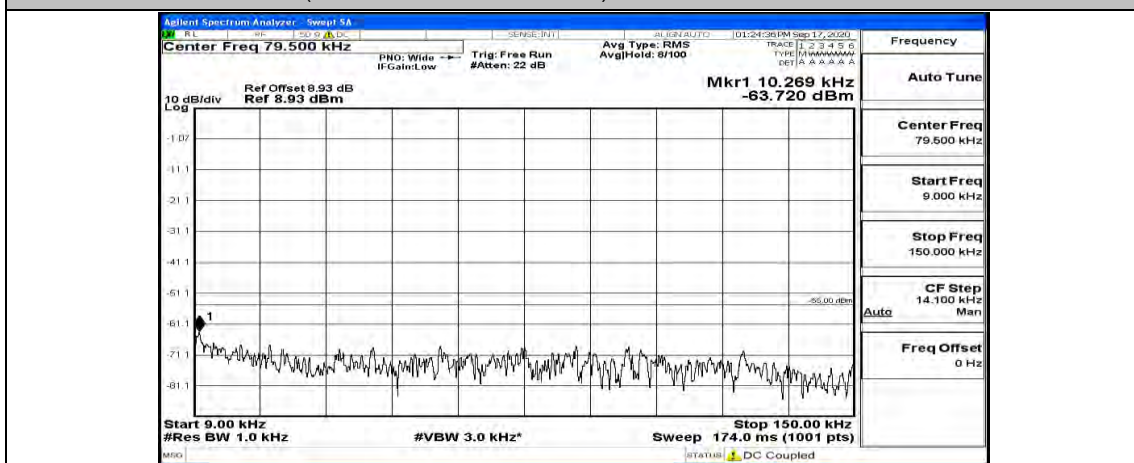
(Channel Bandwidth: 5 MHz)\_LCH\_QPSK\_1RB#12

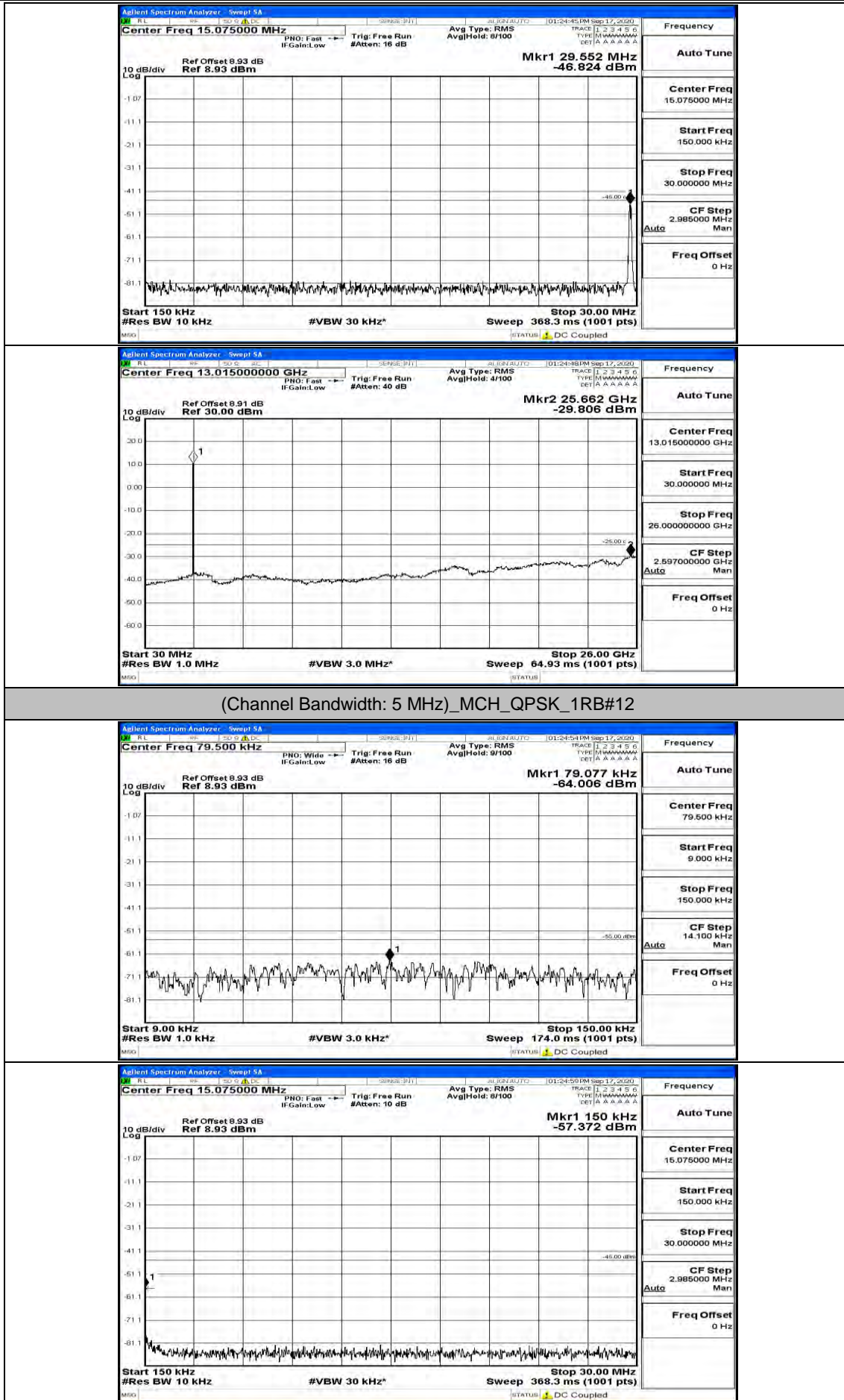




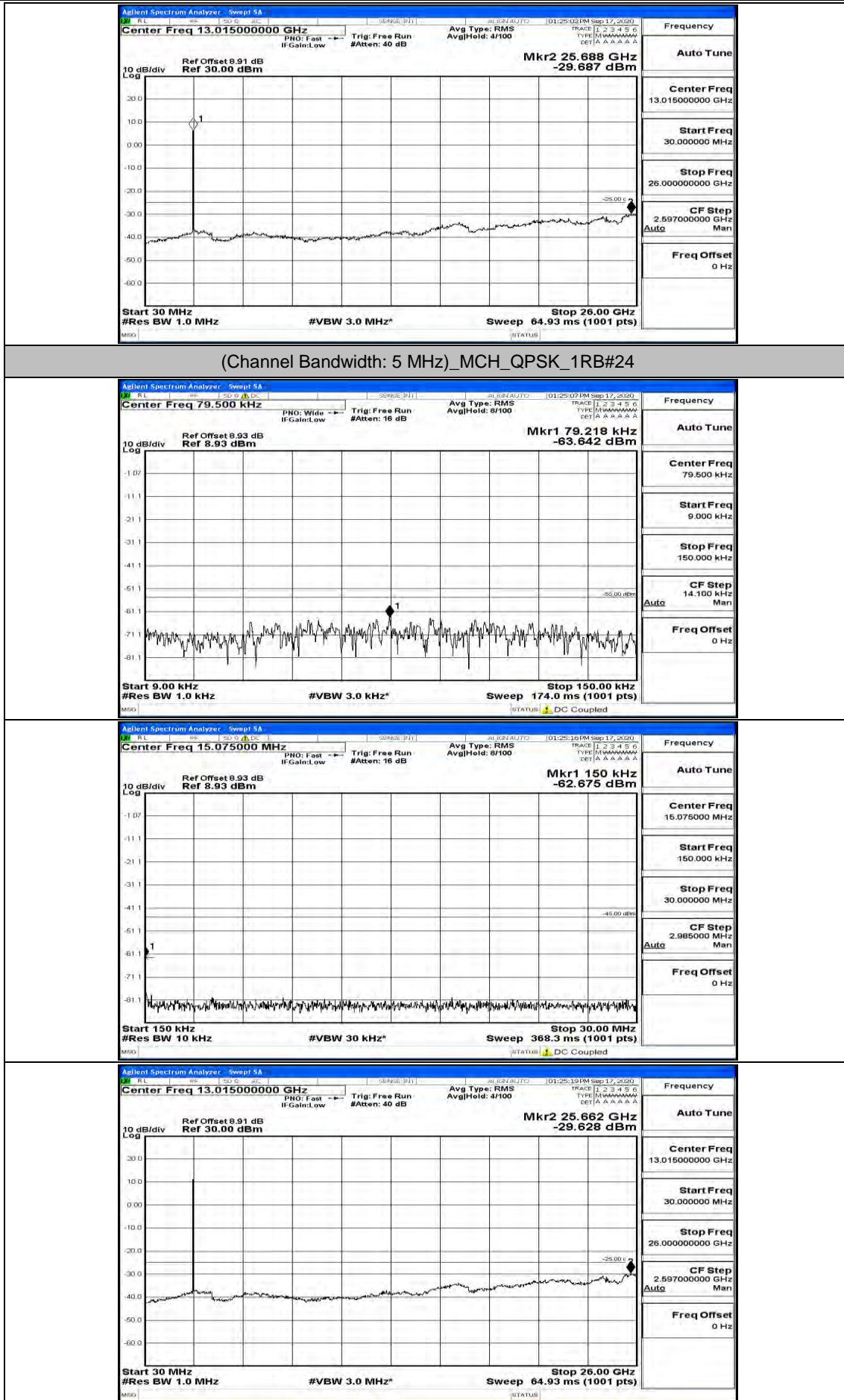


(Channel Bandwidth: 5 MHz)\_MCH\_QPSK\_1RB#0

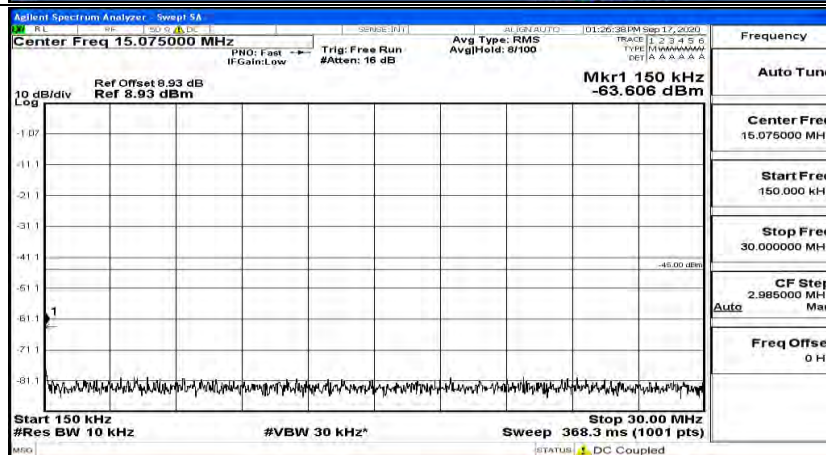
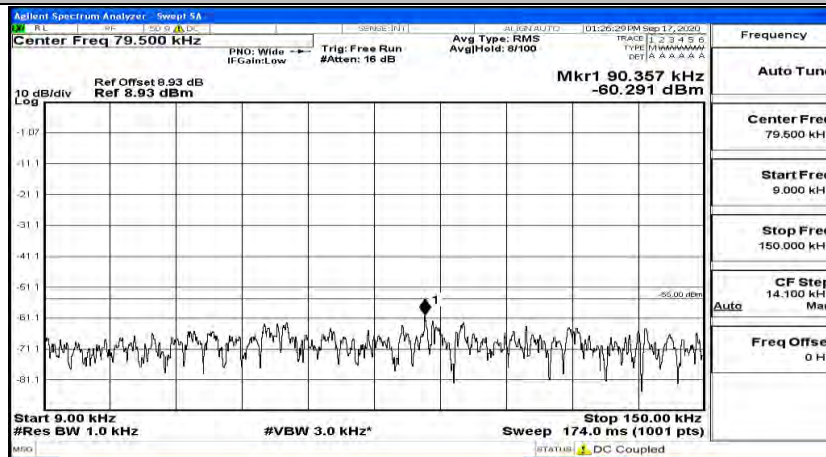




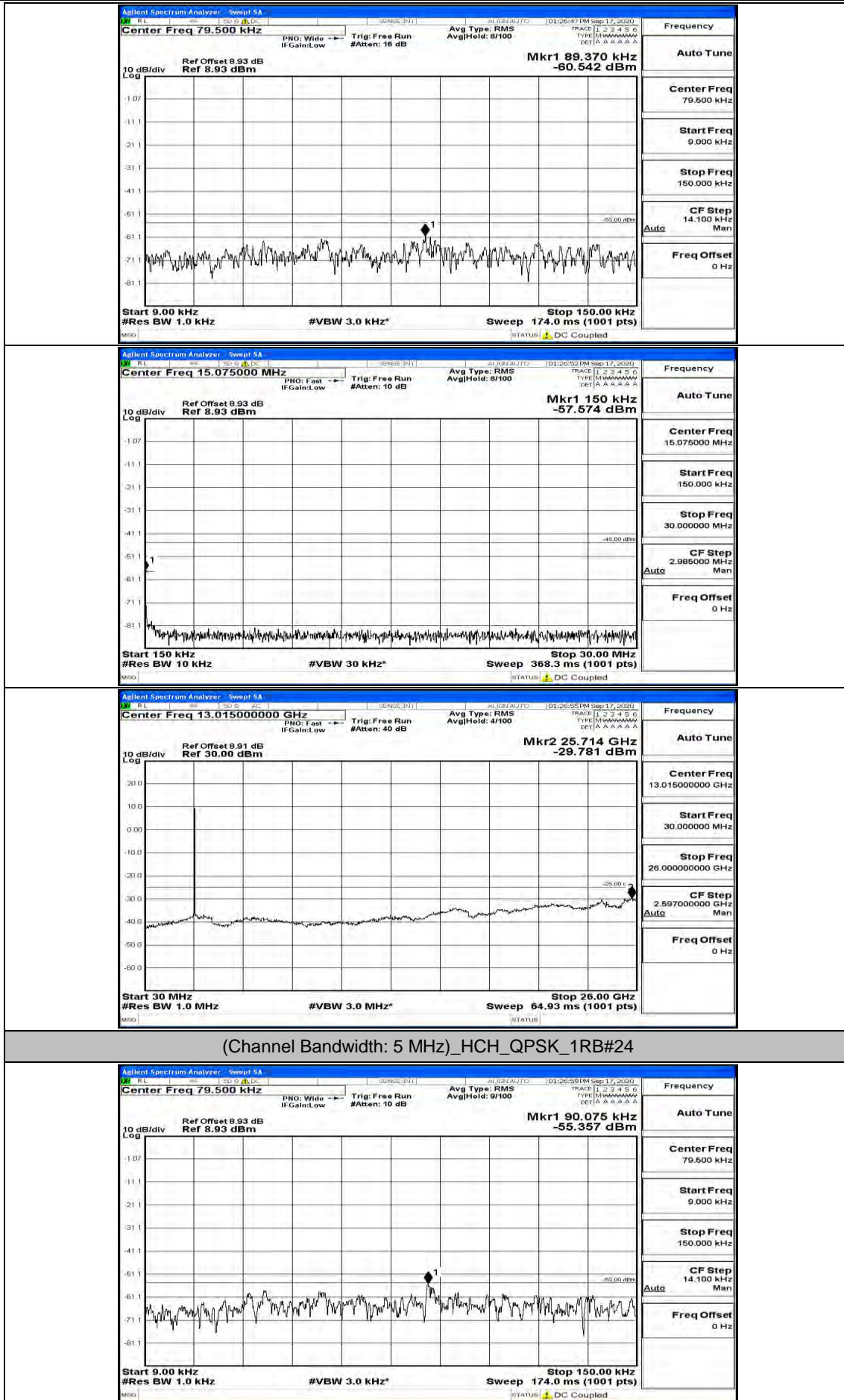




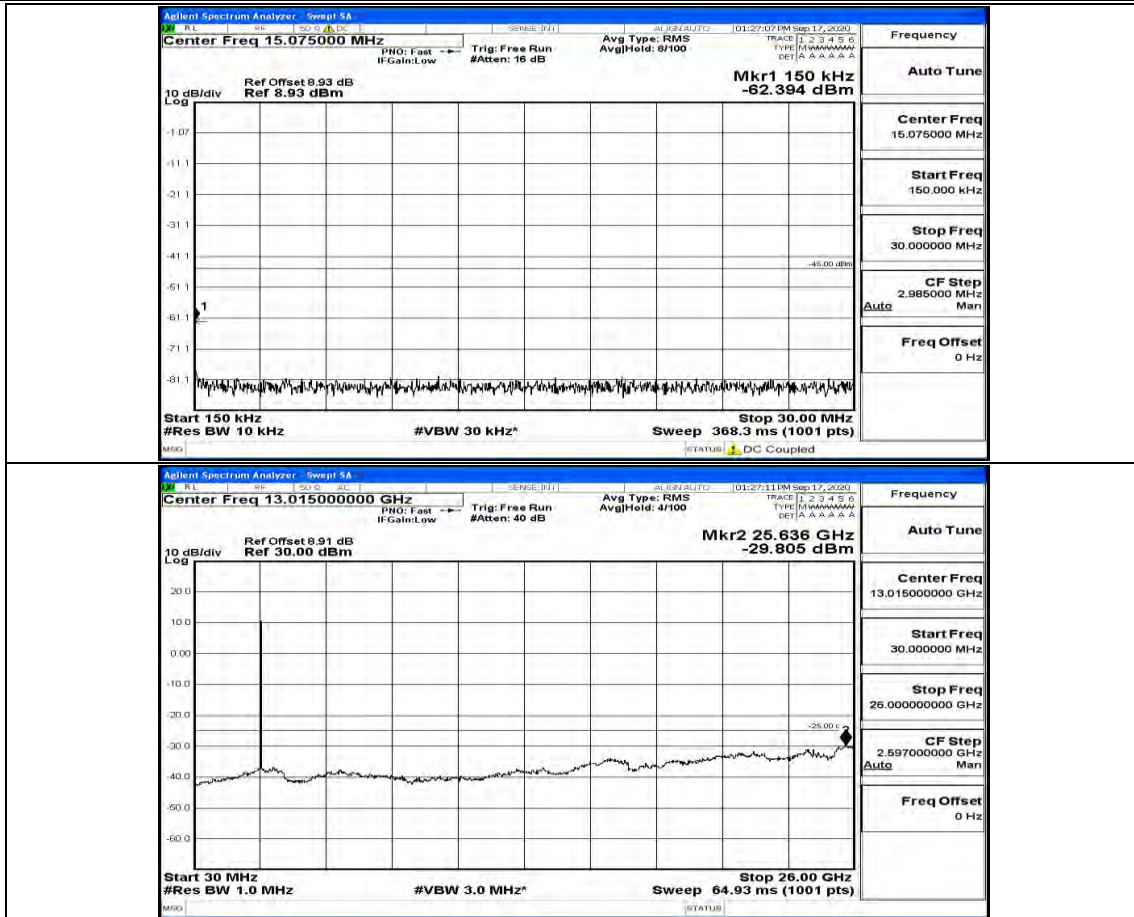
## (Channel Bandwidth: 5 MHz)\_HCH\_QPSK\_1RB#0



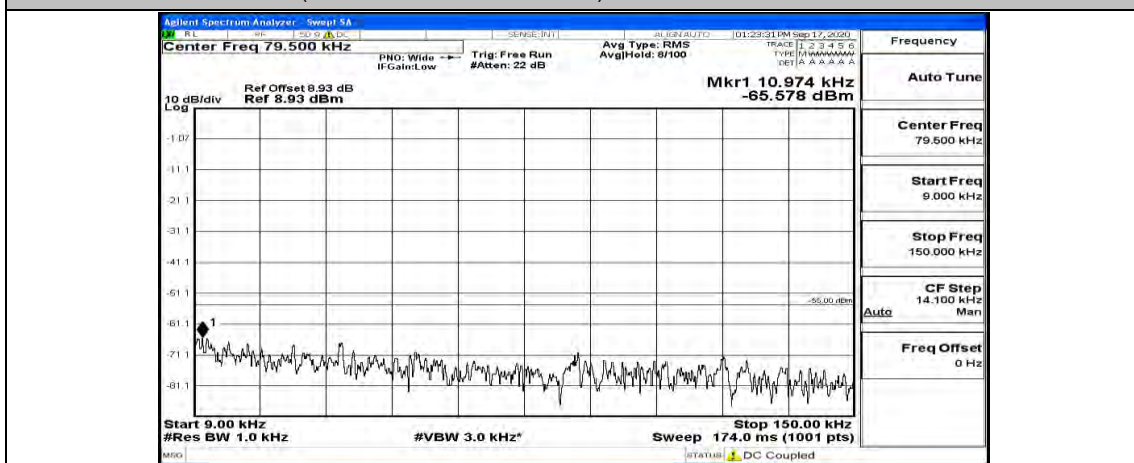
## (Channel Bandwidth: 5 MHz)\_HCH\_QPSK\_1RB#12

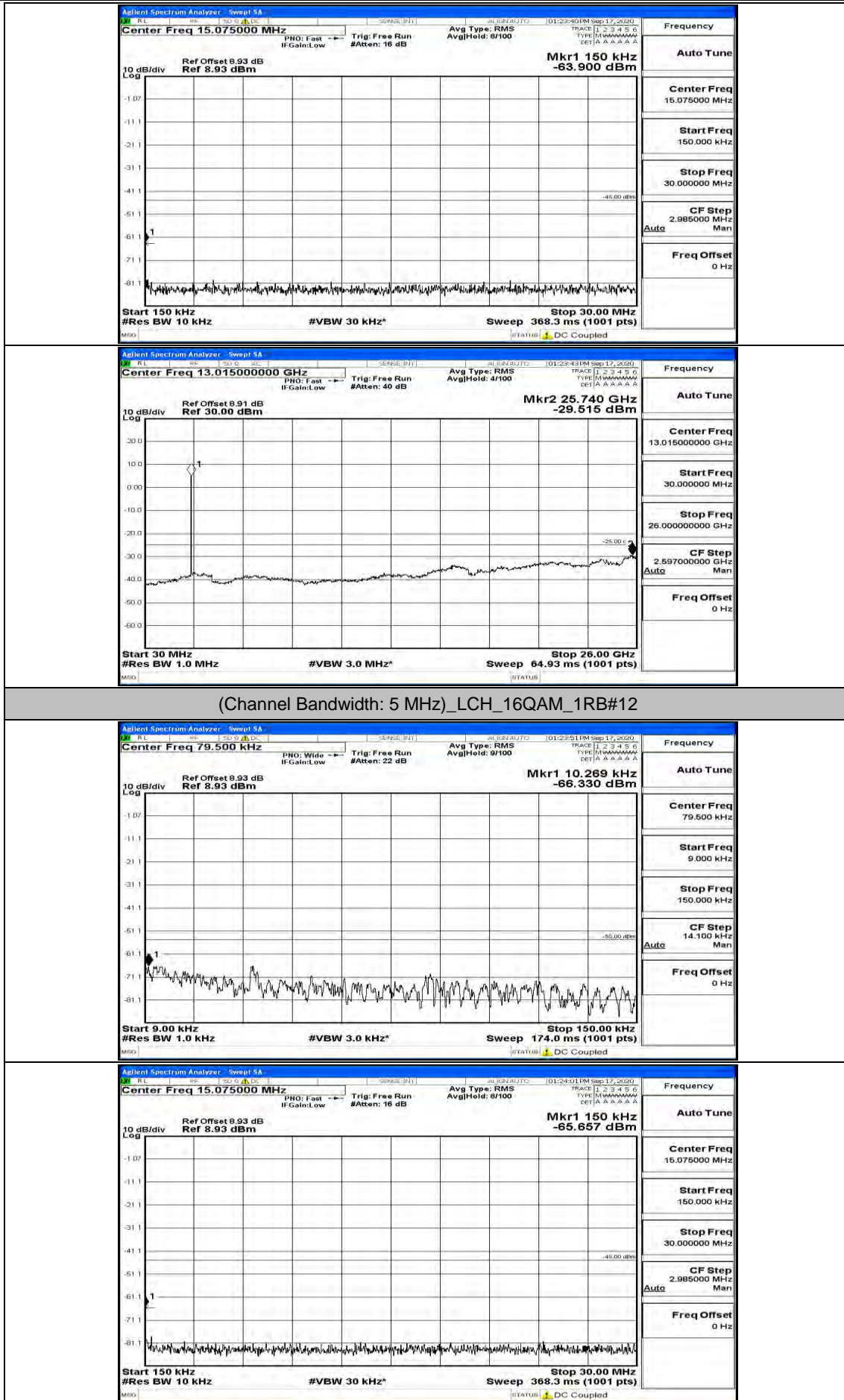




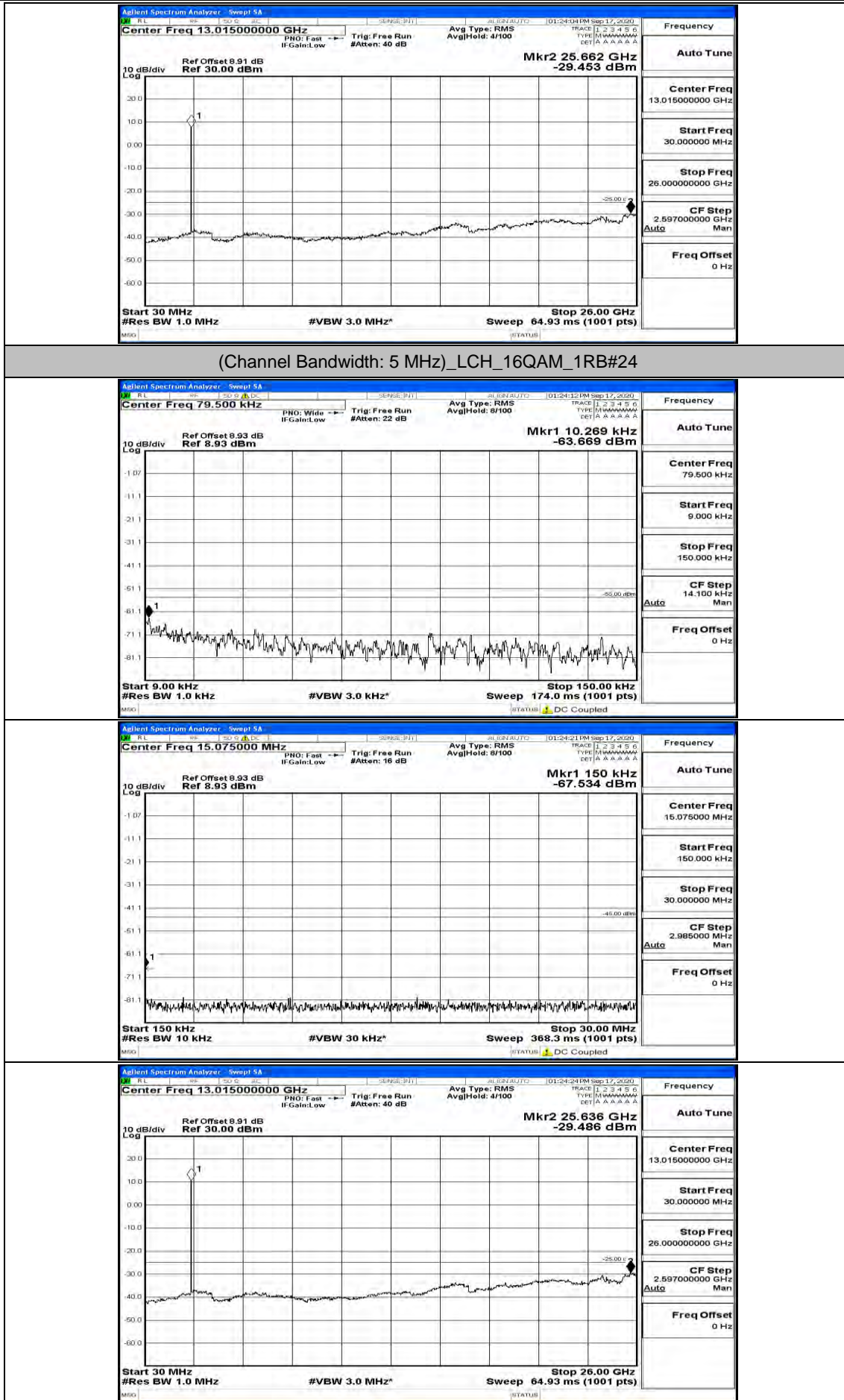


(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_1RB#0

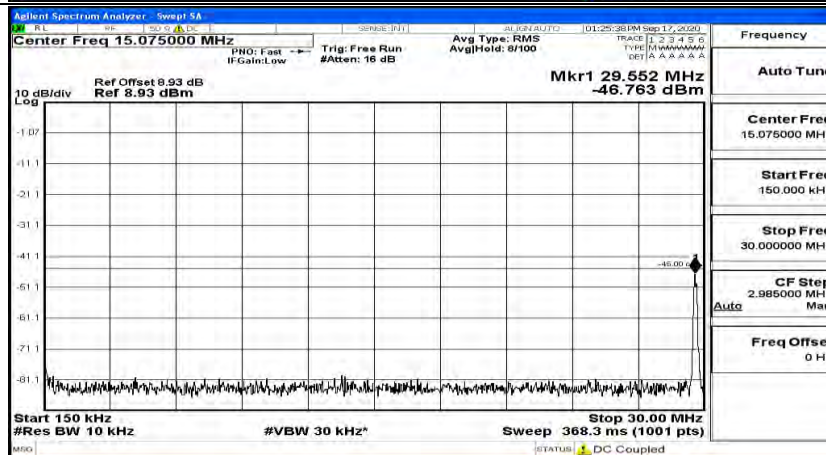
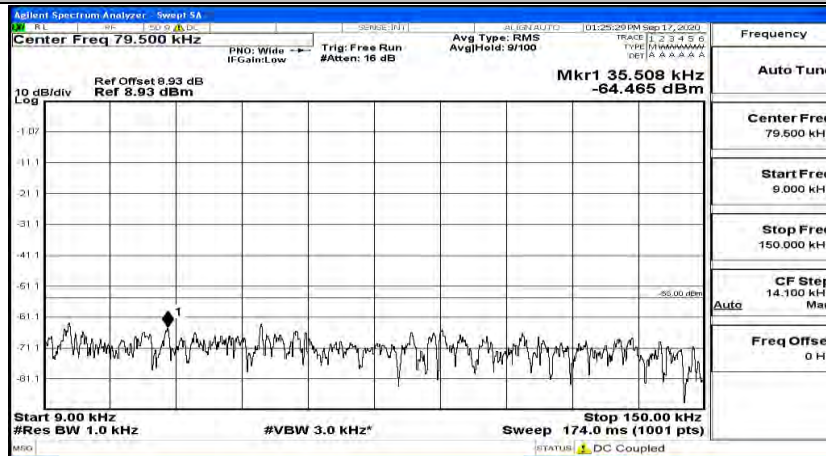




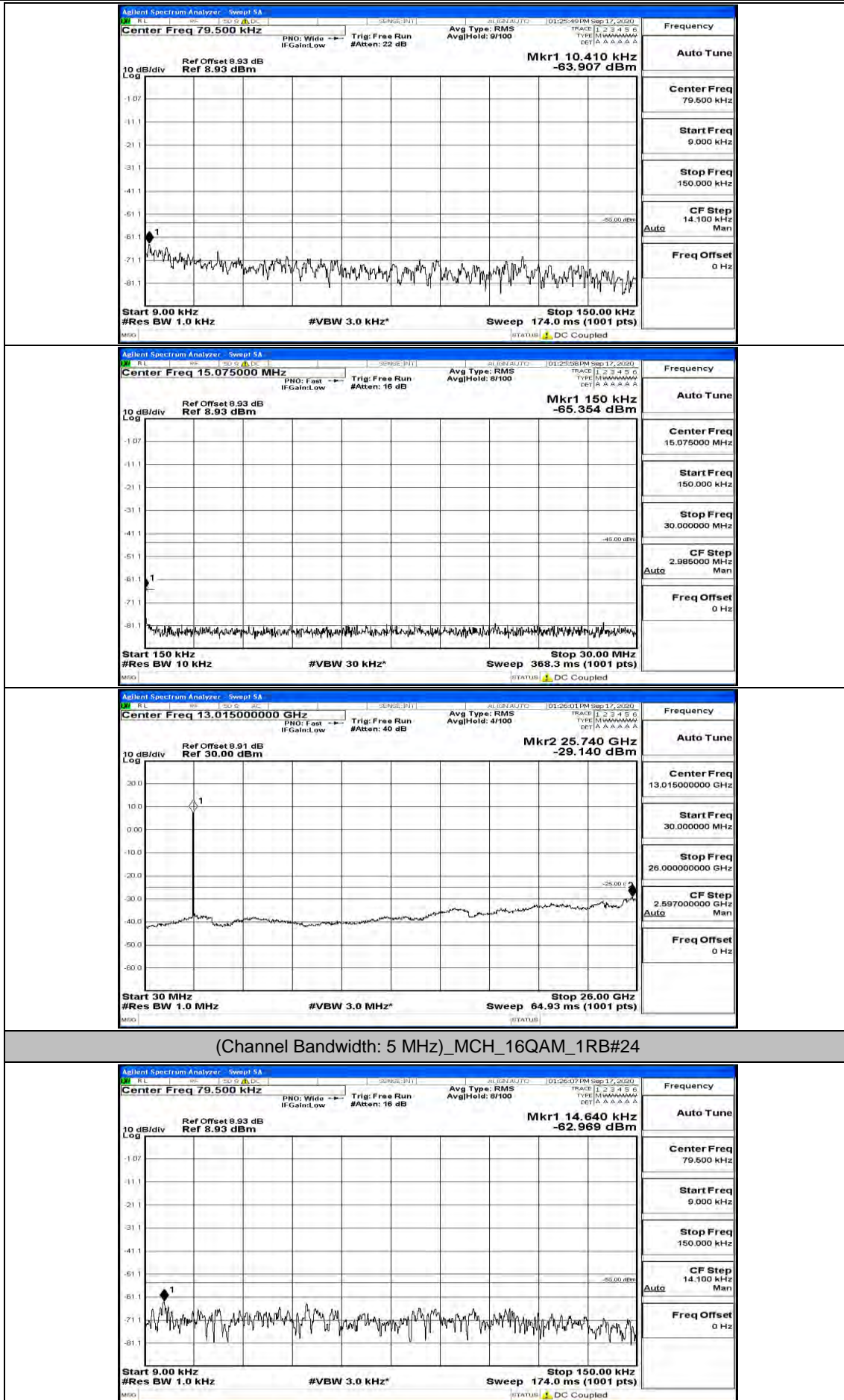




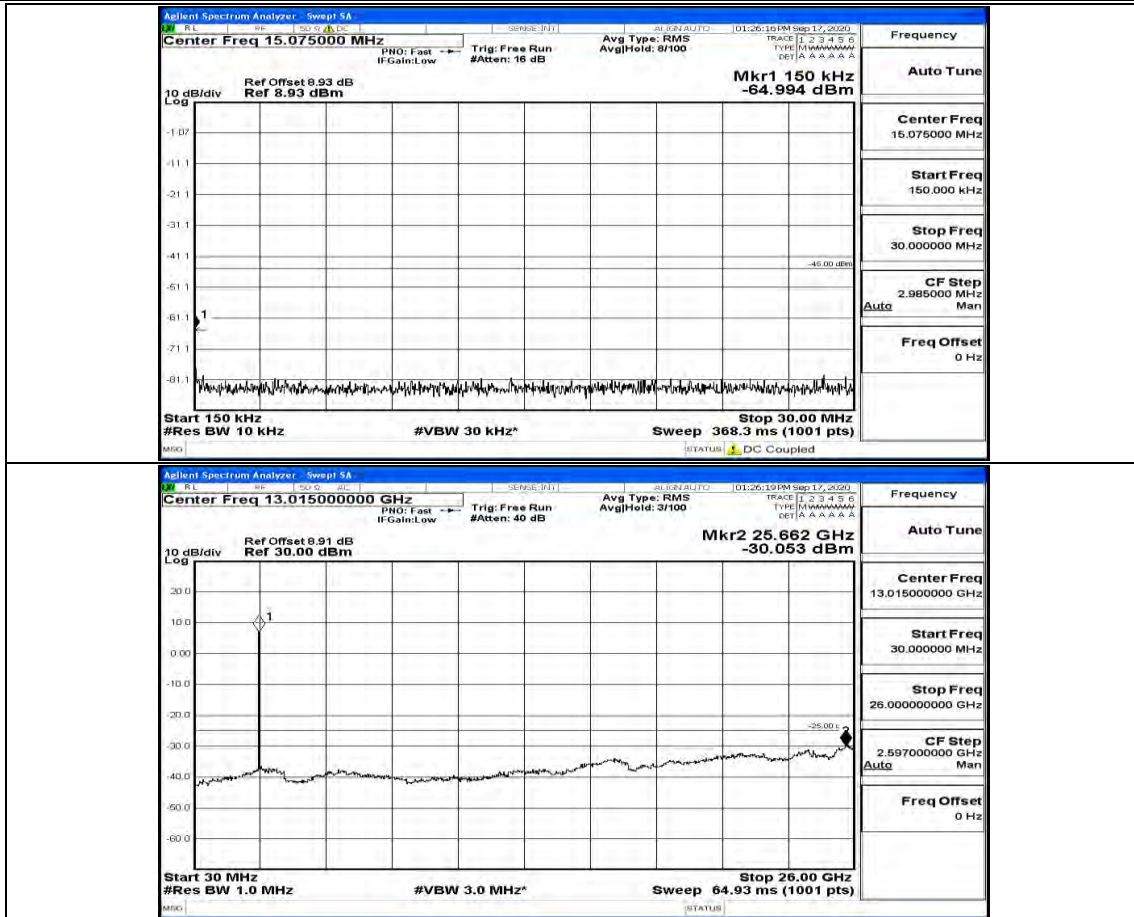
## (Channel Bandwidth: 5 MHz)\_MCH\_16QAM\_1RB#0



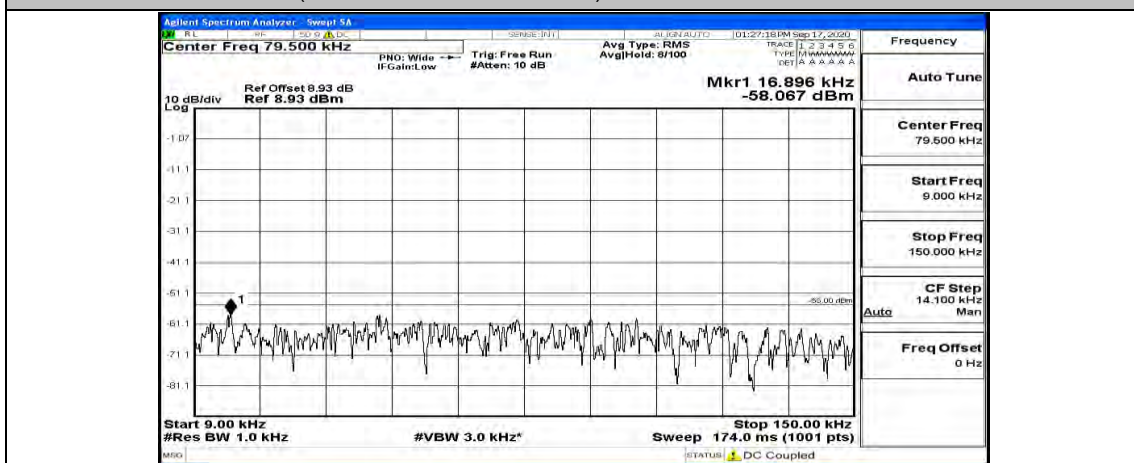
## (Channel Bandwidth: 5 MHz)\_MCH\_16QAM\_1RB#12



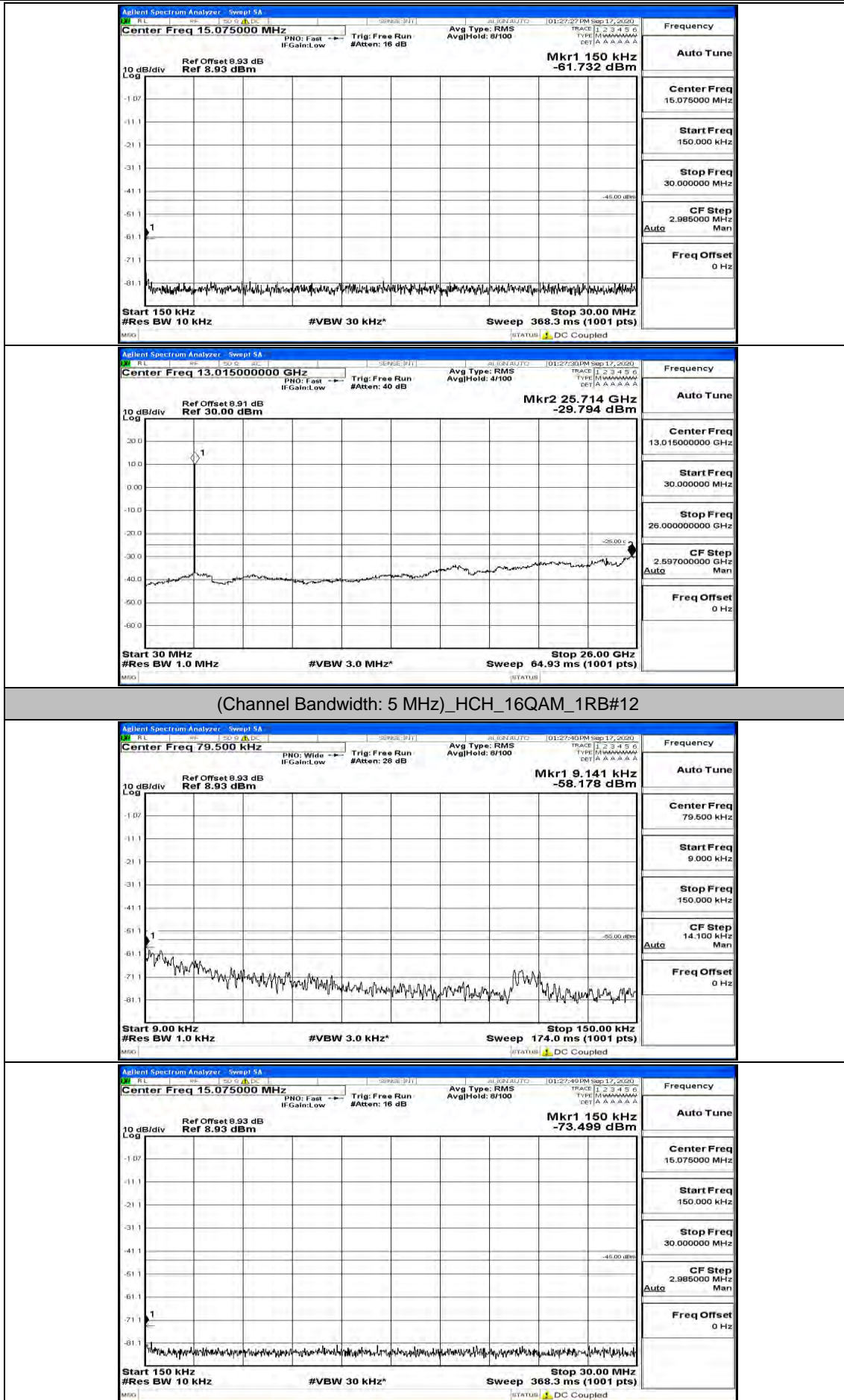


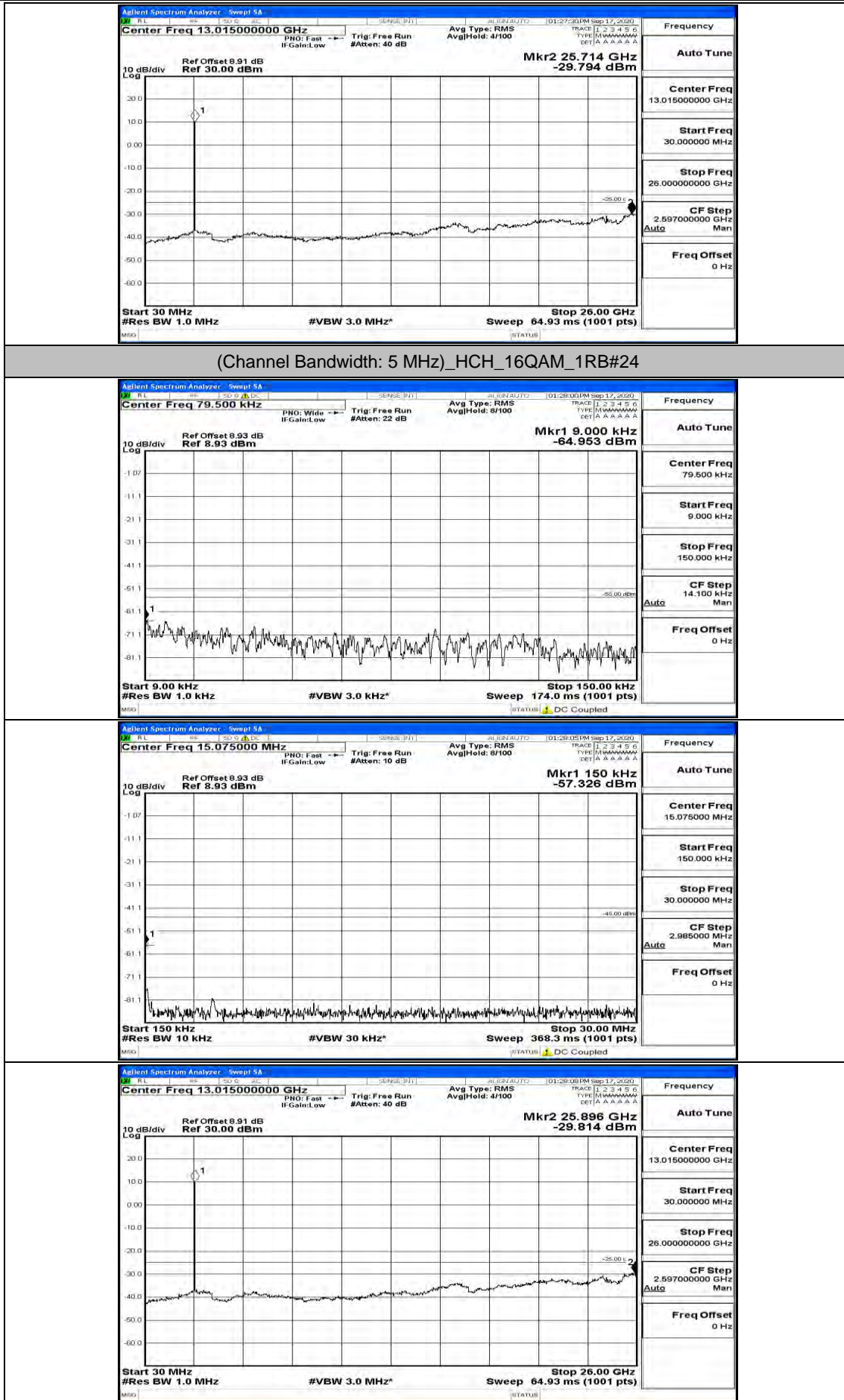


(Channel Bandwidth: 5 MHz)\_HCH\_16QAM\_1RB#0

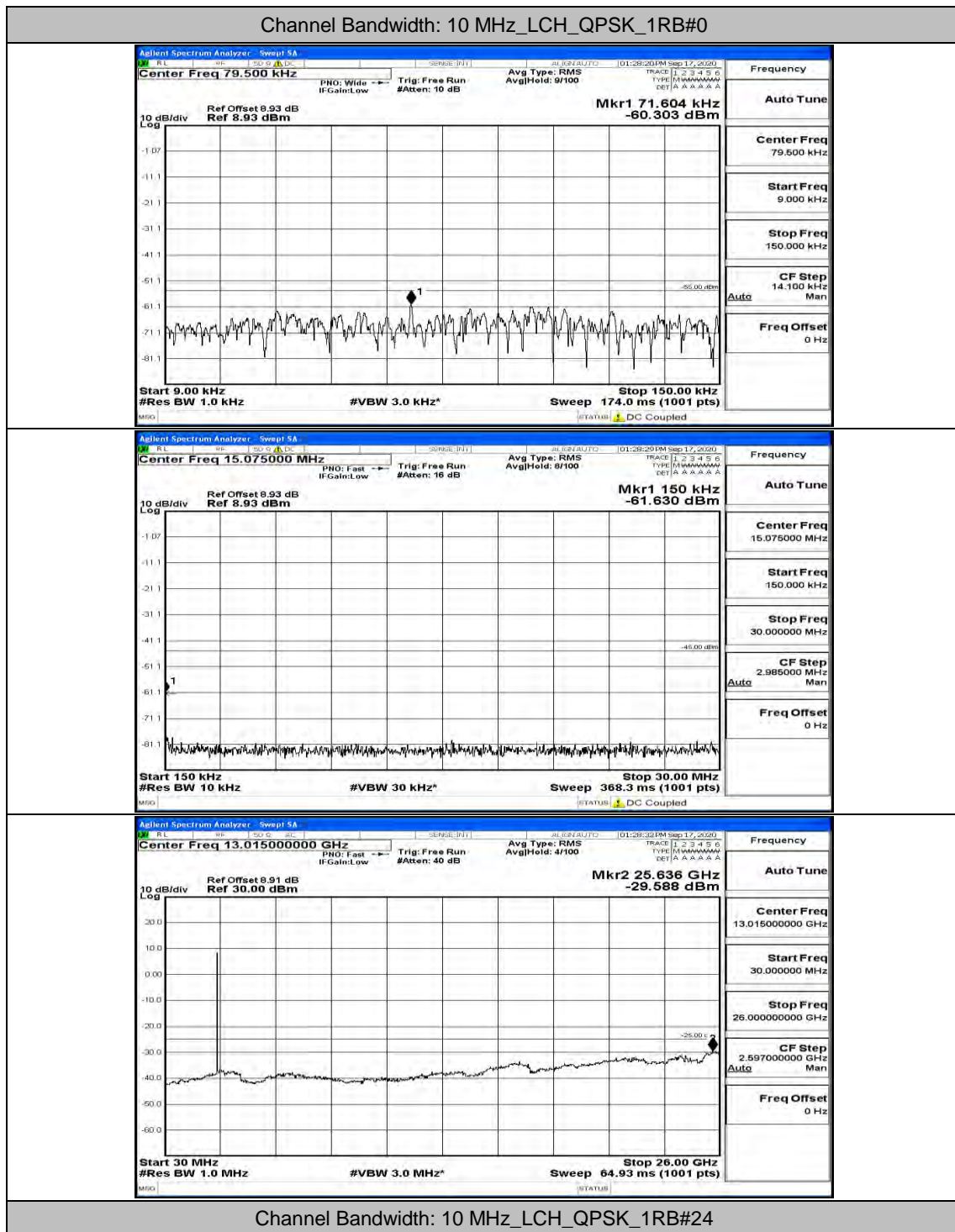




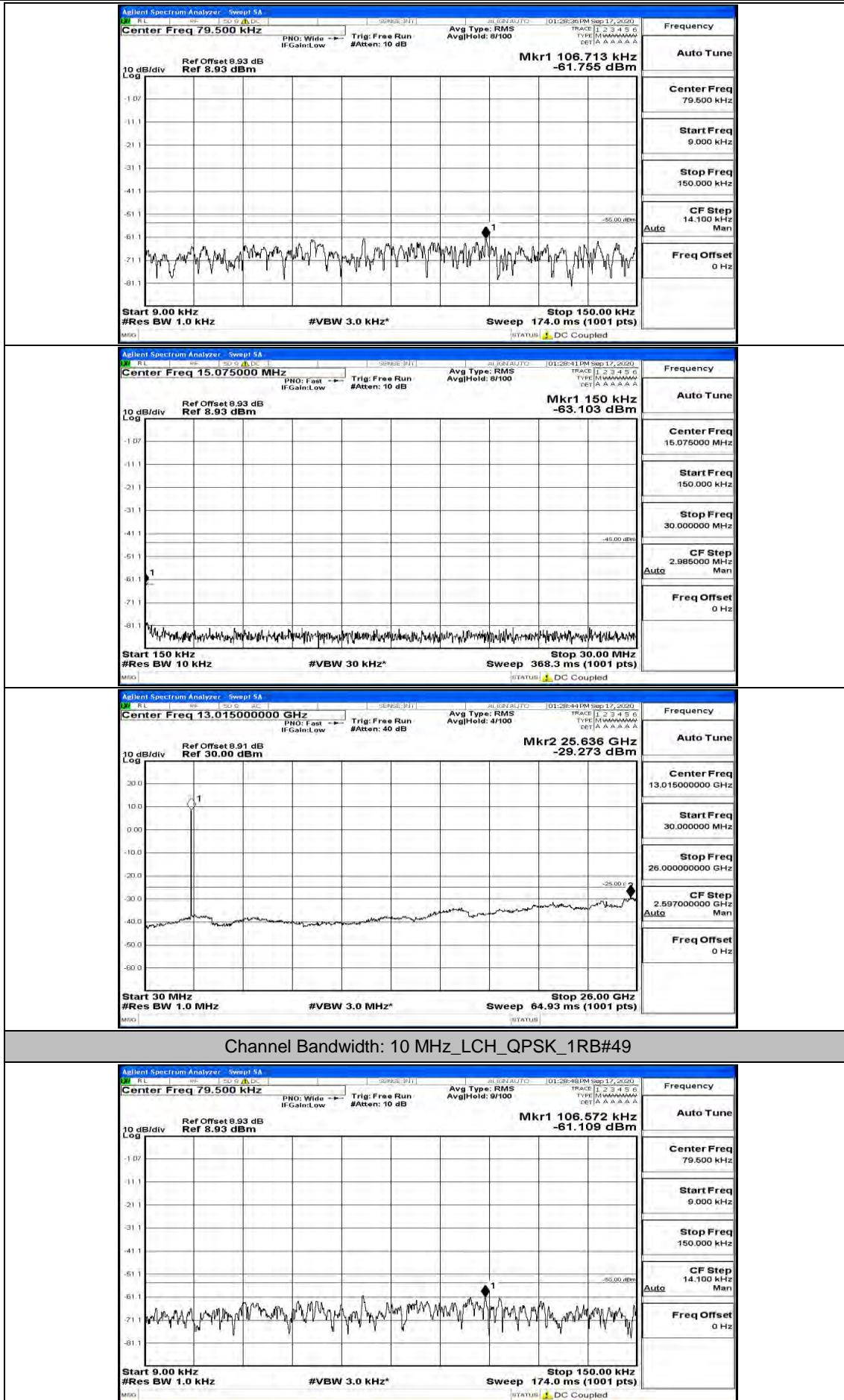




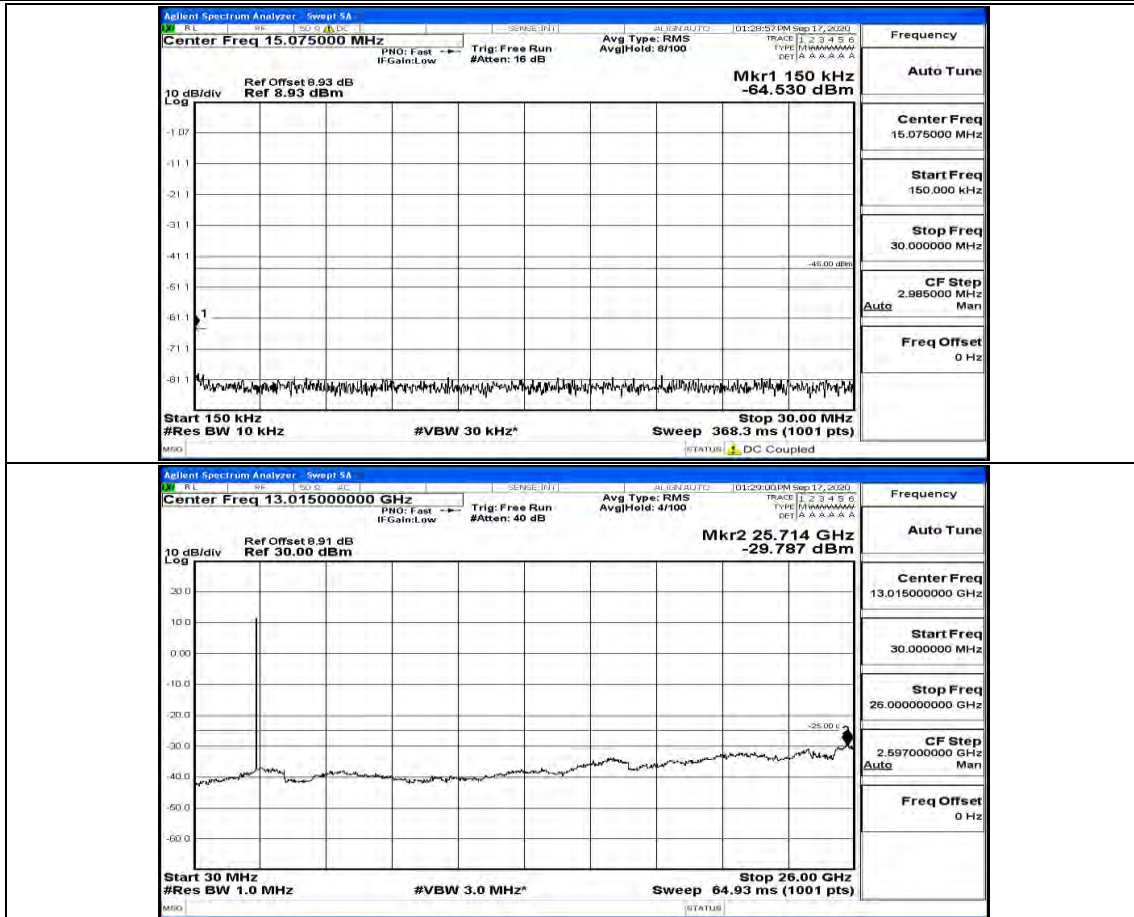
## Channel Bandwidth: 10 MHz



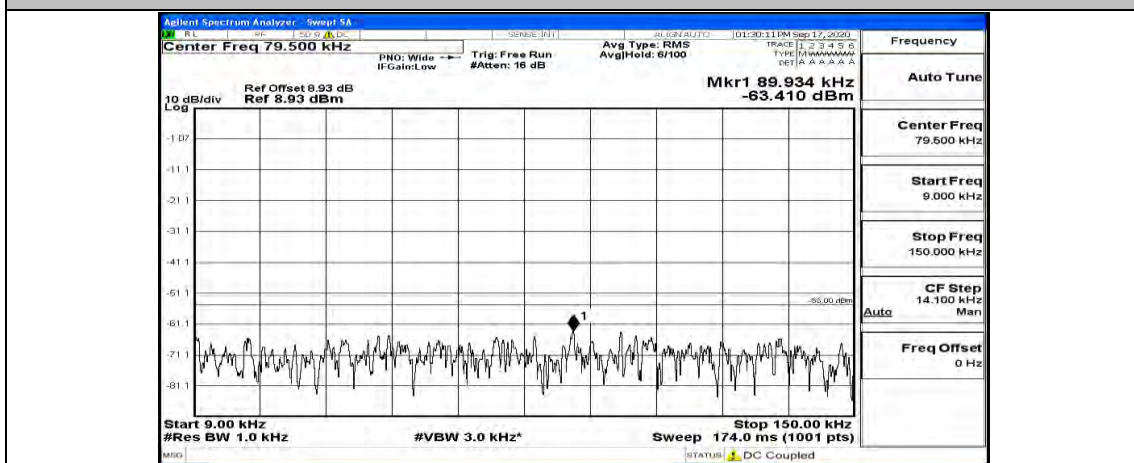


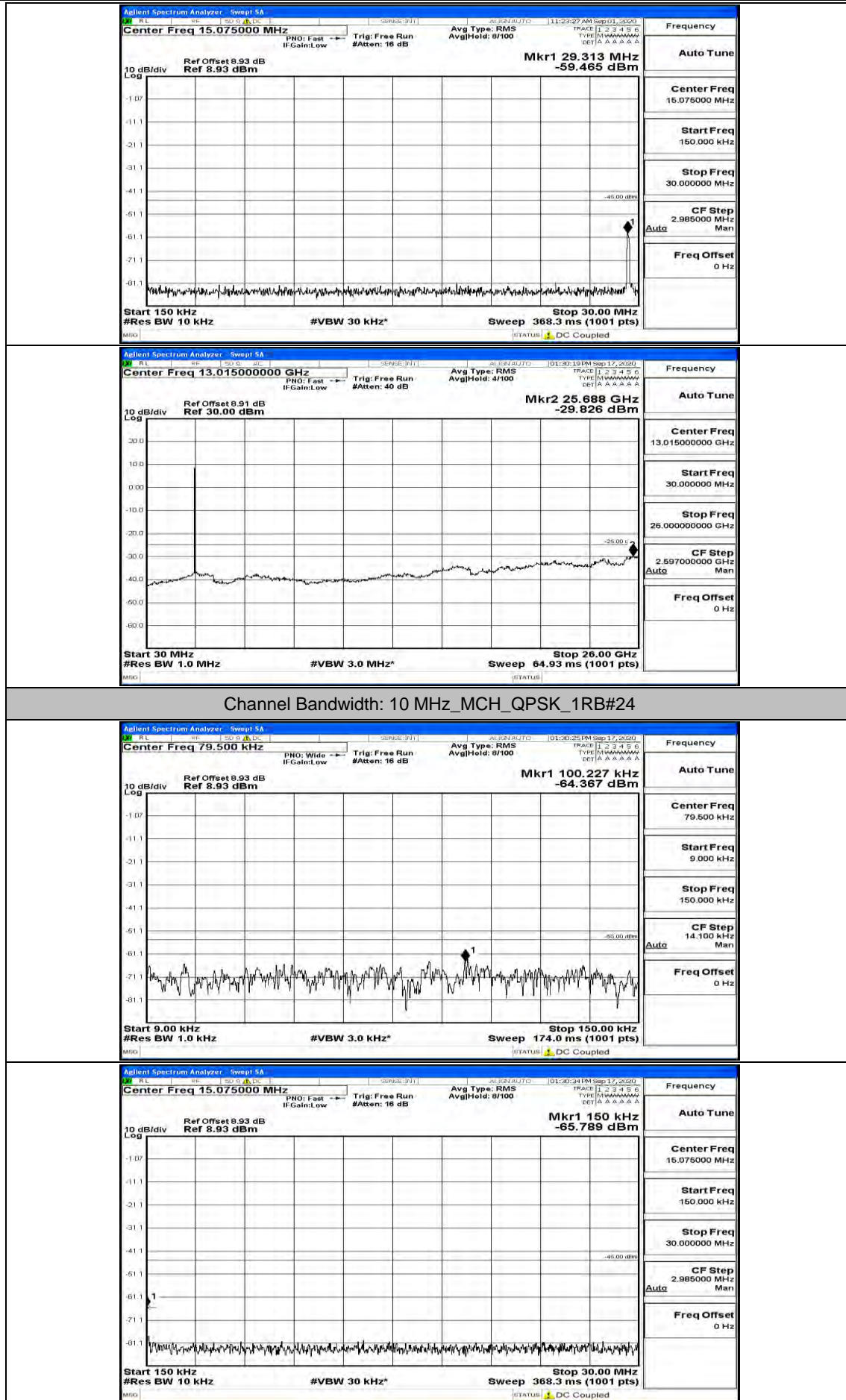


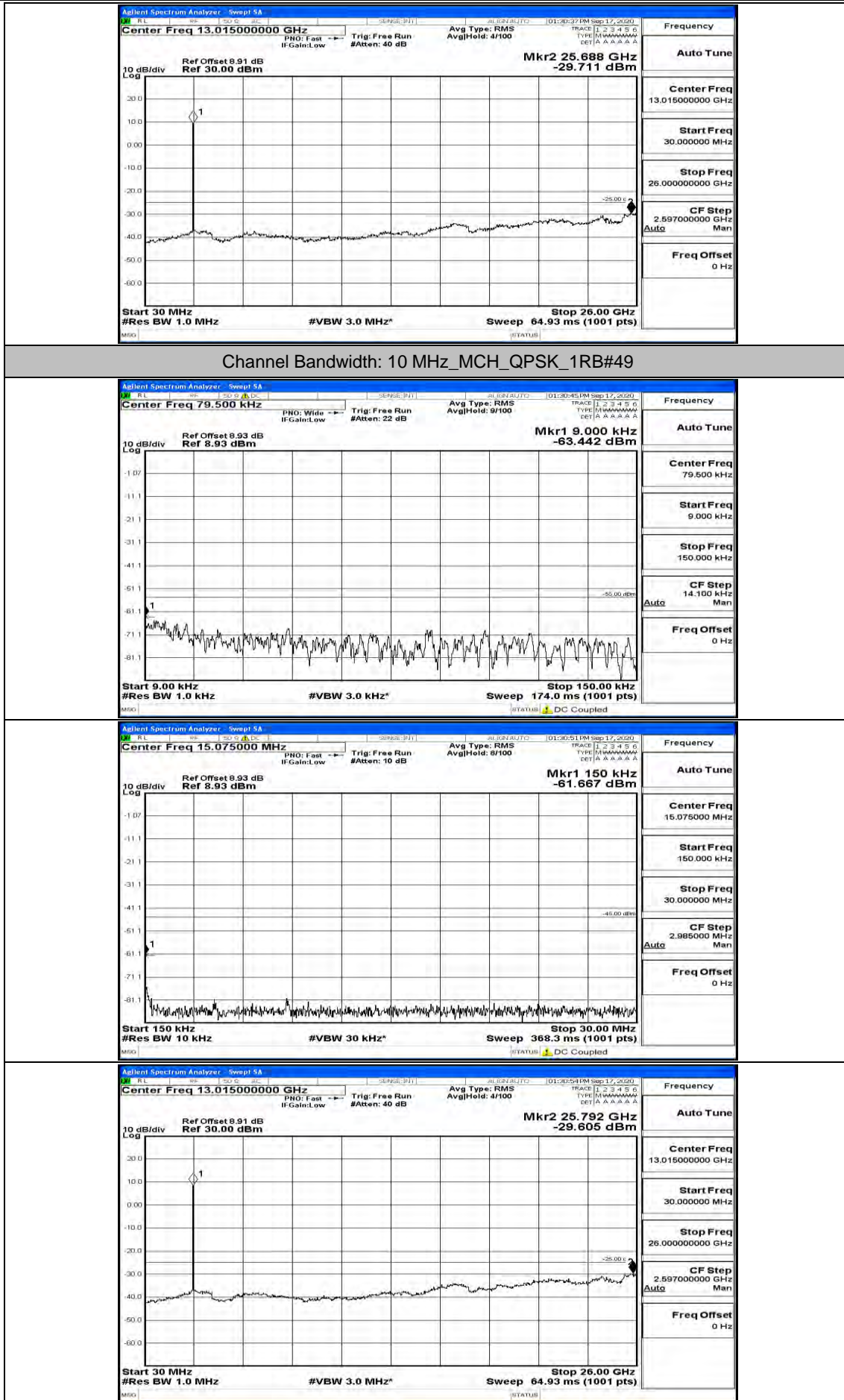




## Channel Bandwidth: 10 MHz\_MCH\_QPSK\_1RB#0

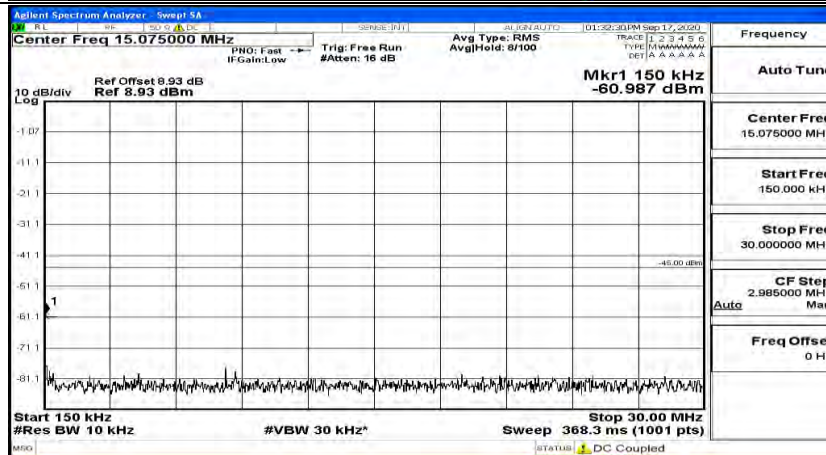
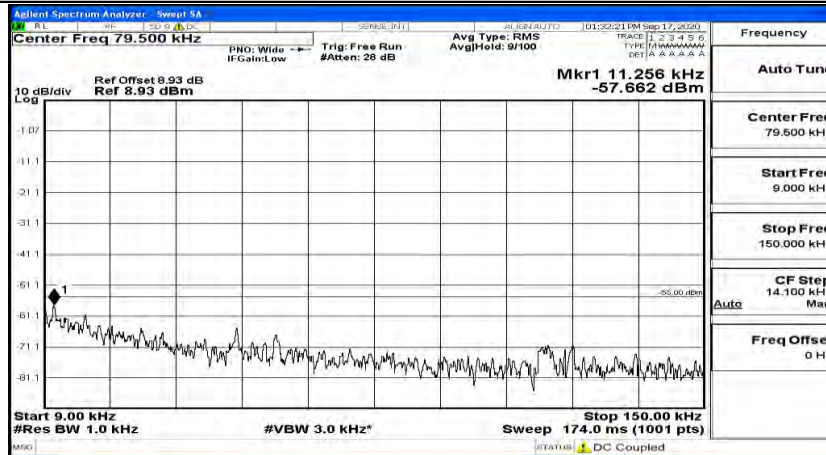






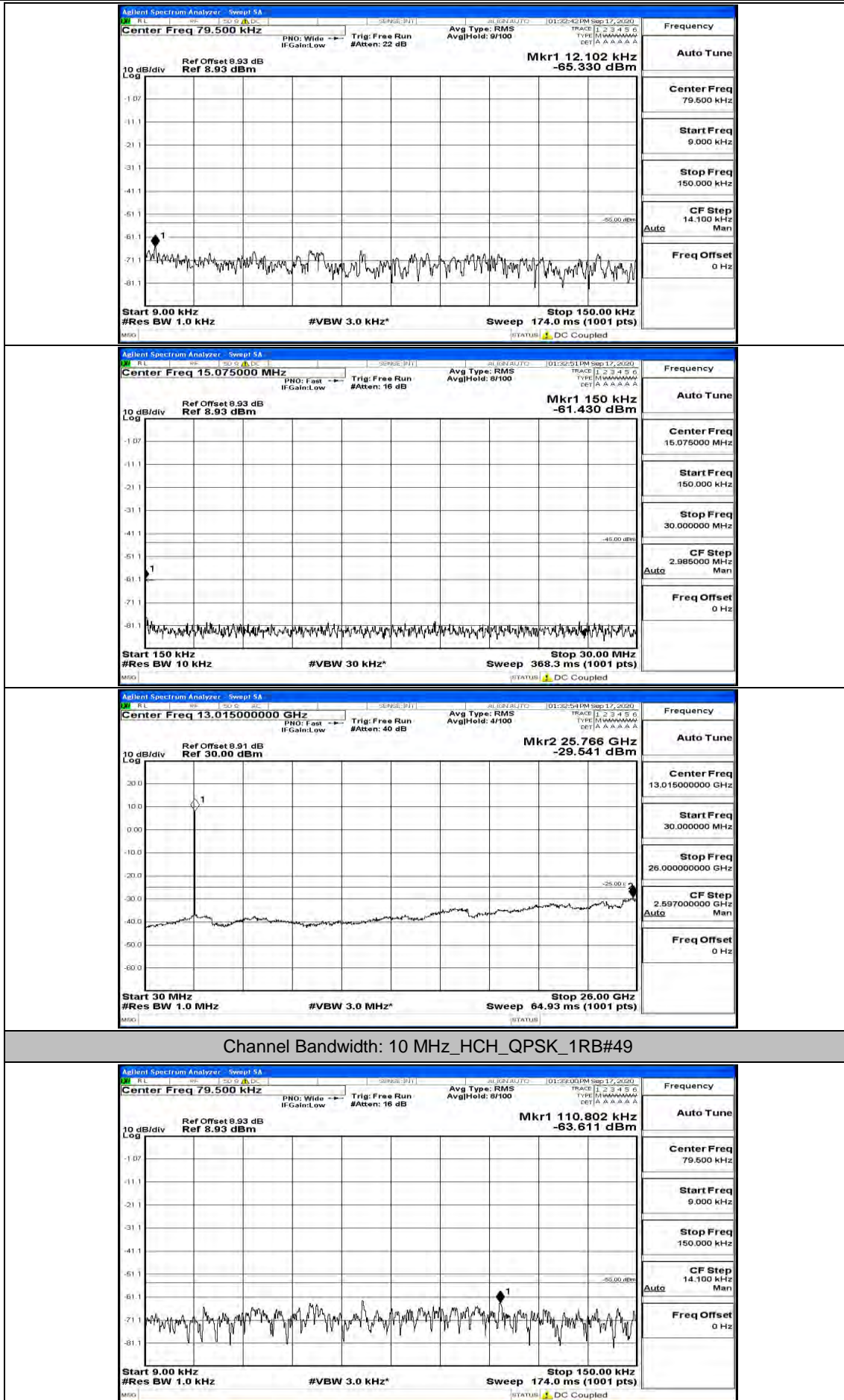


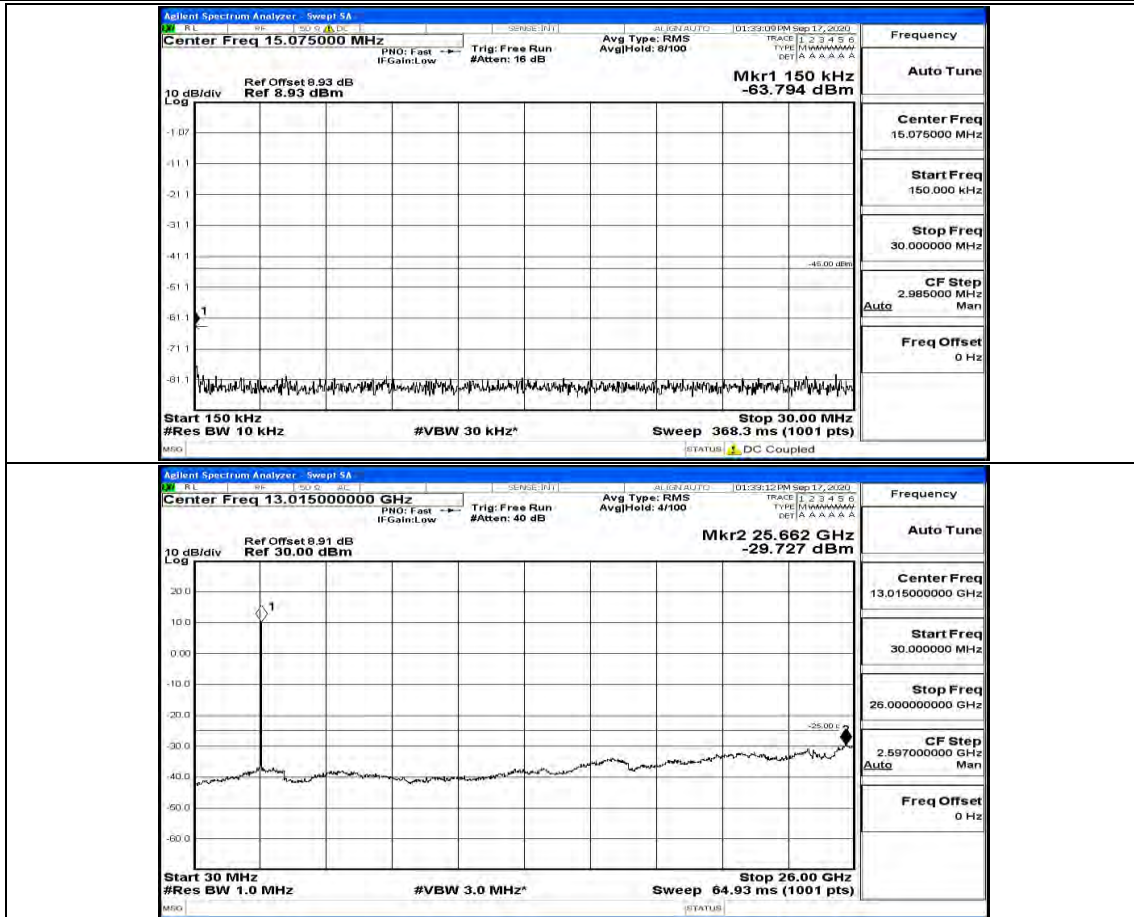
## Channel Bandwidth: 10 MHz\_HCH\_QPSK\_1RB#0



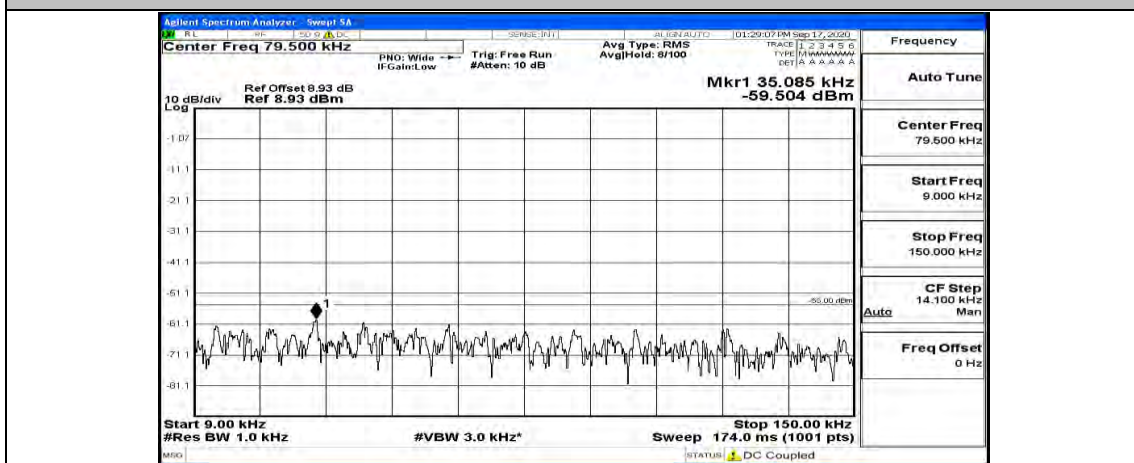
## Channel Bandwidth: 10 MHz\_HCH\_QPSK\_1RB#24

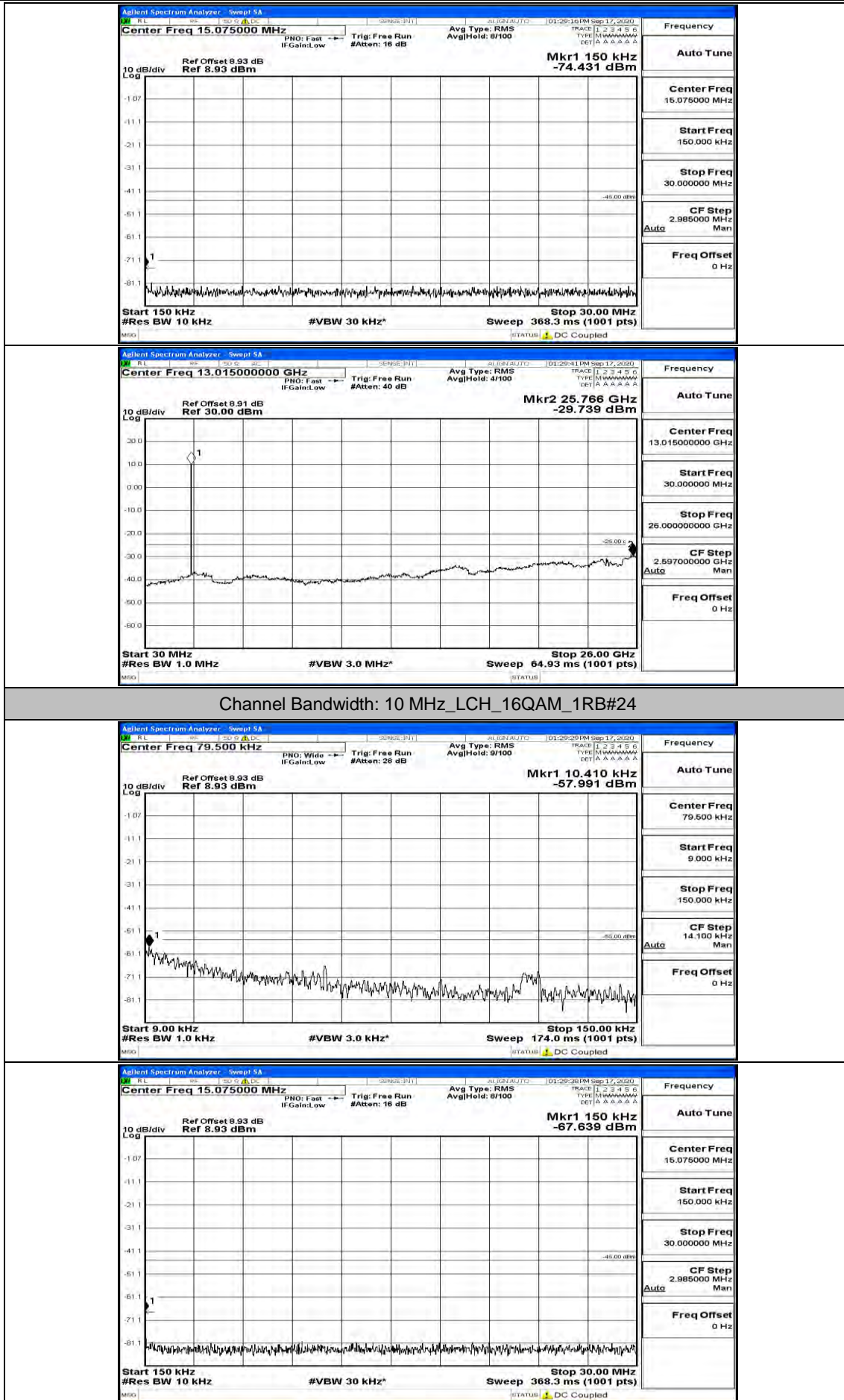




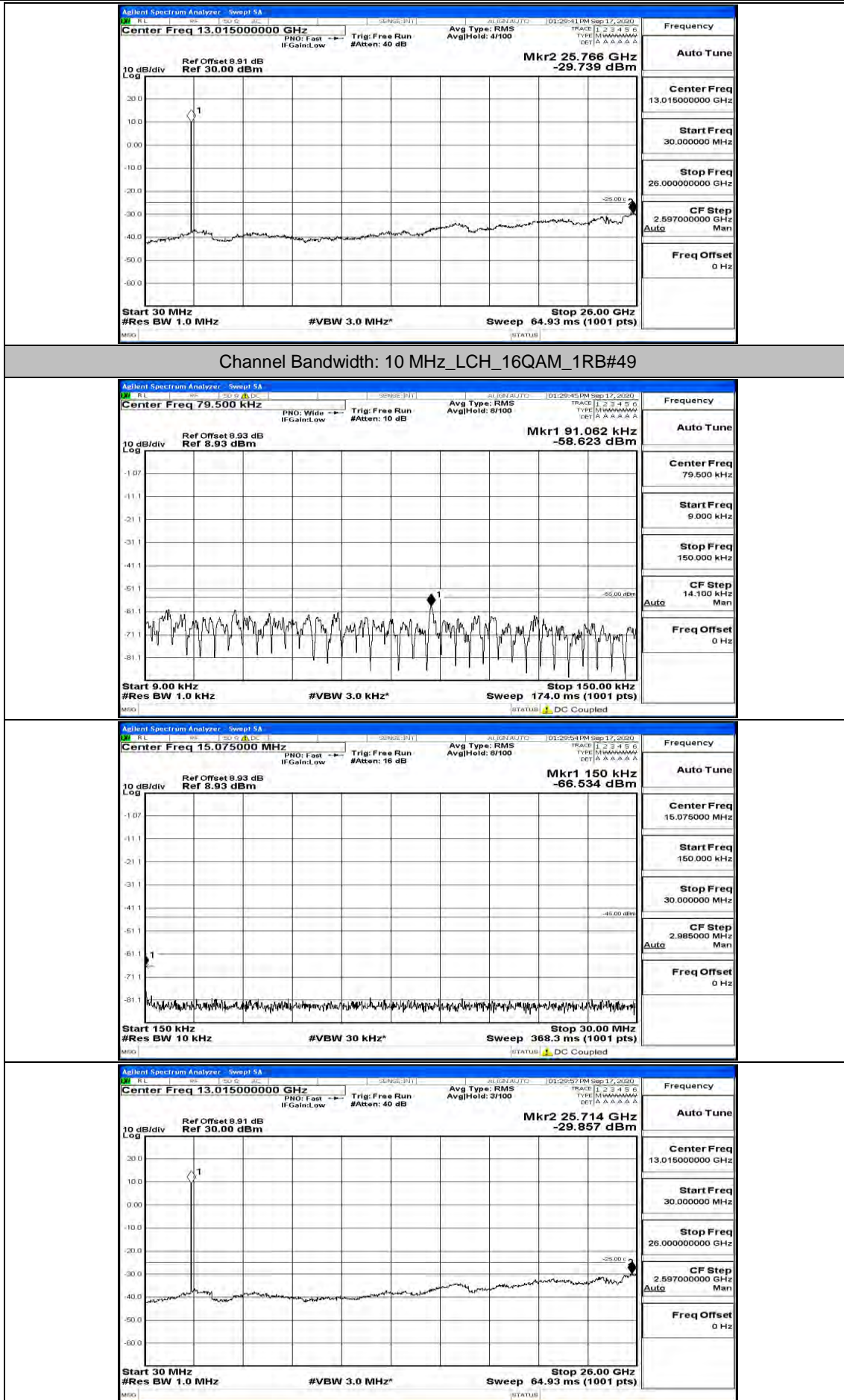


## Channel Bandwidth: 10 MHz\_LCH\_16QAM\_1RB#0



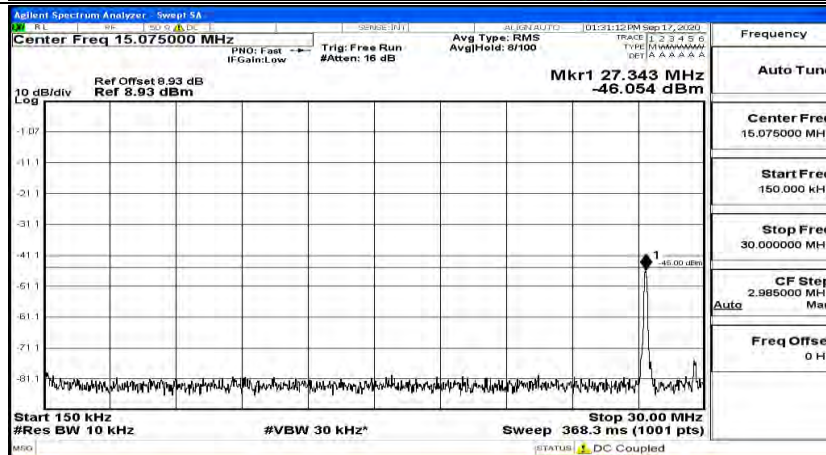
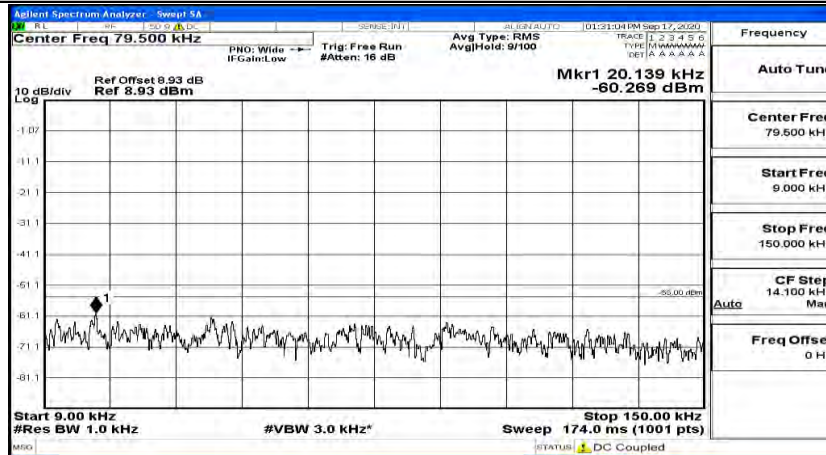




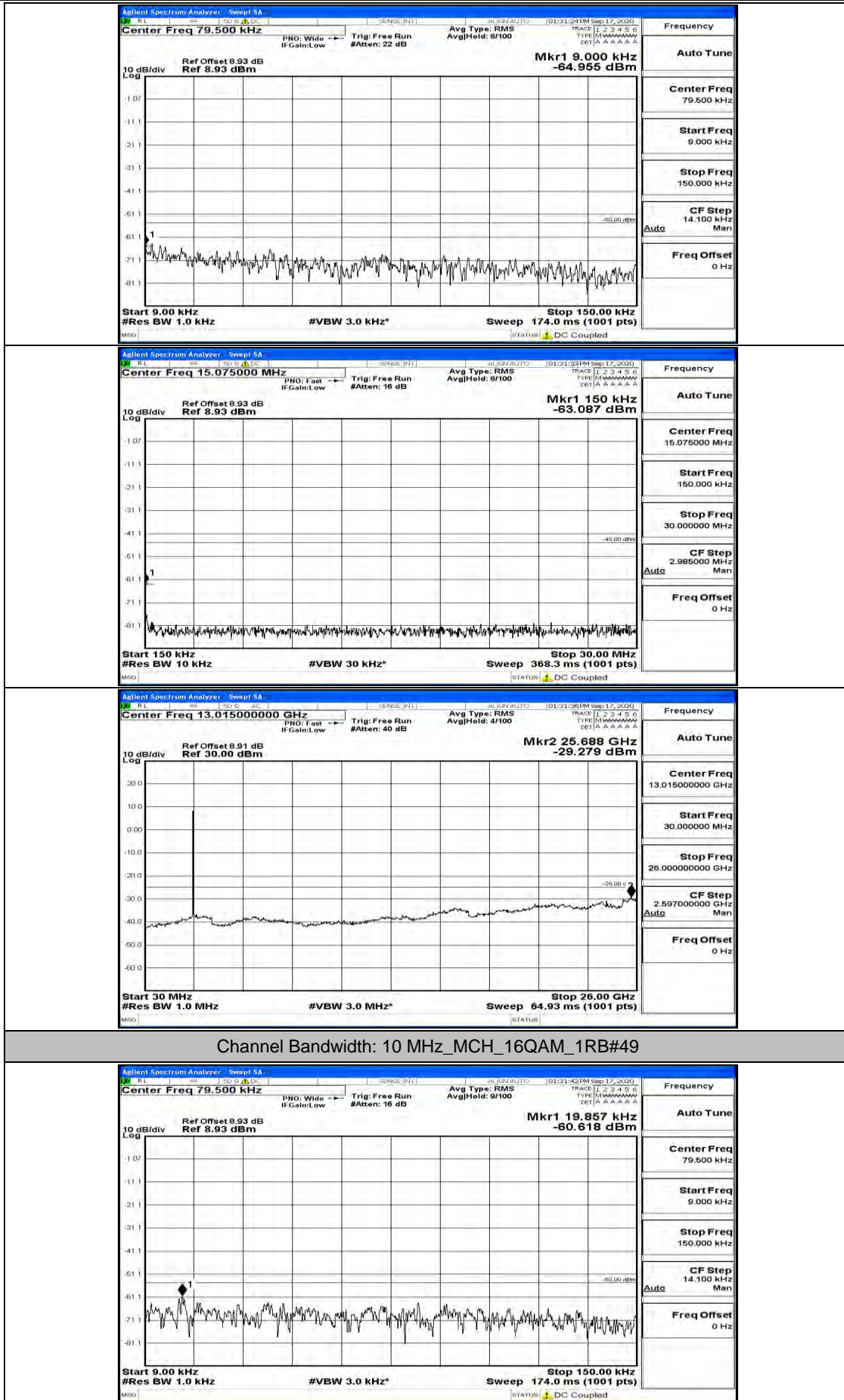


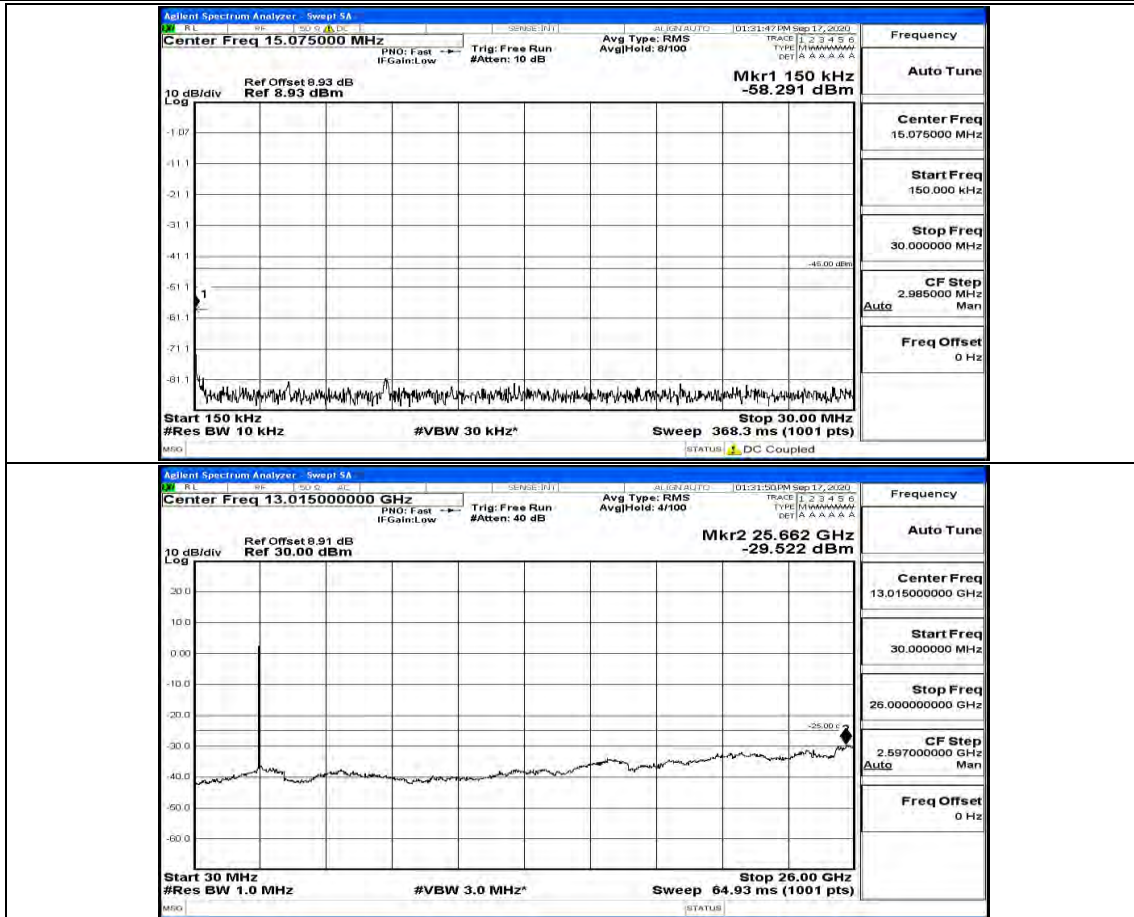


## Channel Bandwidth: 10 MHz\_MCH\_16QAM\_1RB#0



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





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

