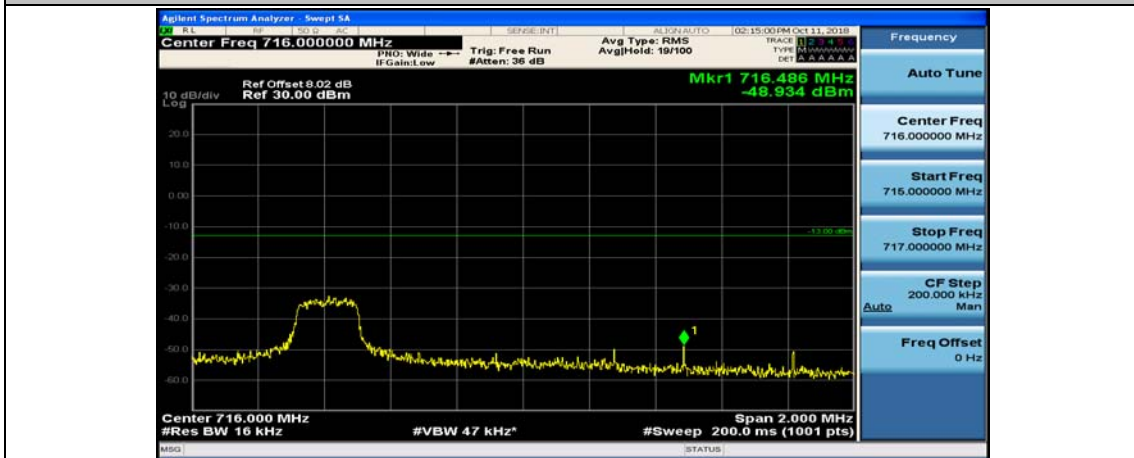




Channel Bandwidth: 10 MHz\_LCH\_QPSK\_50RB#0



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



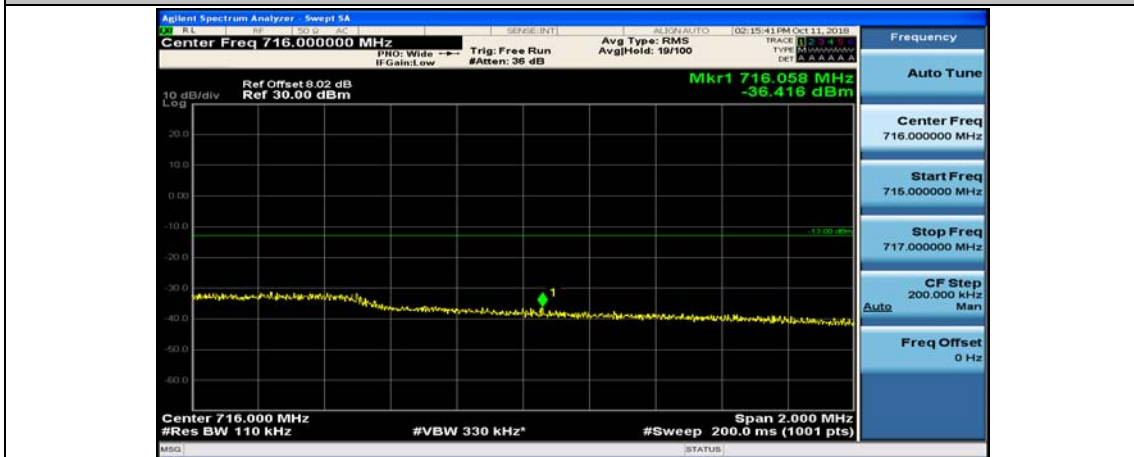
Channel Bandwidth: 10 MHz\_HCH\_QPSK\_1RB#24



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



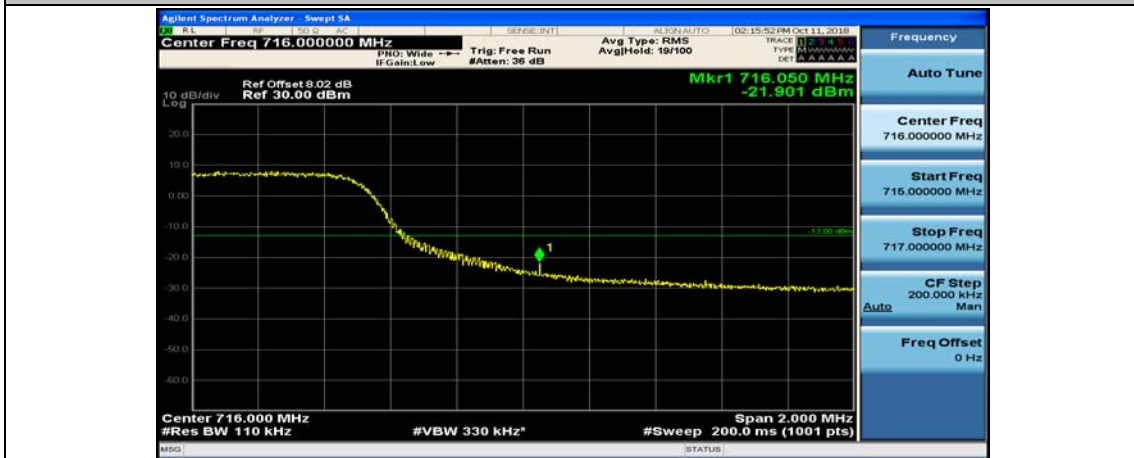
Channel Bandwidth: 10 MHz\_HCH\_QPSK\_25RB#0



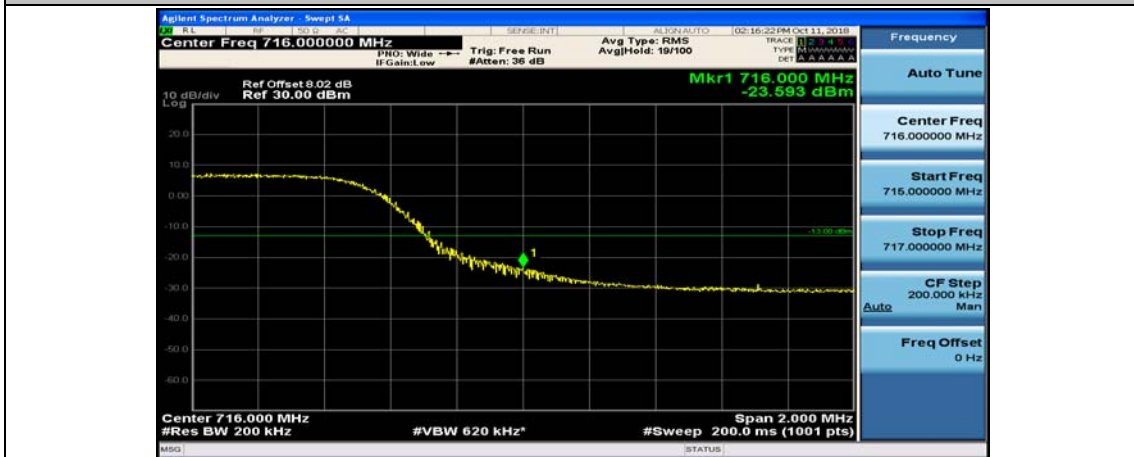
Channel Bandwidth: 10 MHz\_HCH\_QPSK\_25RB#12



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



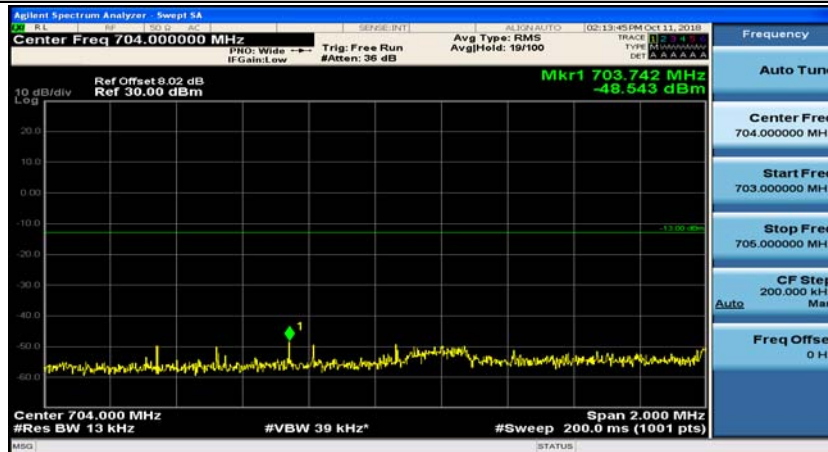
Channel Bandwidth: 10 MHz\_HCH\_QPSK\_50RB#0



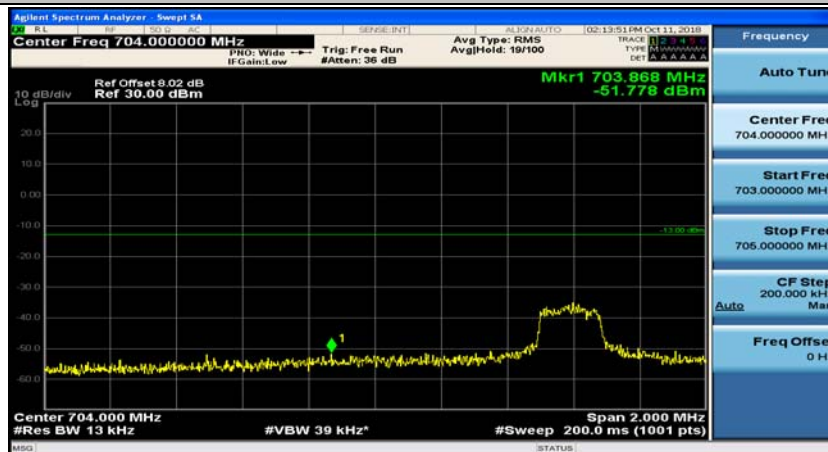
Channel Bandwidth: 10 MHz\_LCH\_16QAM\_1RB#0



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



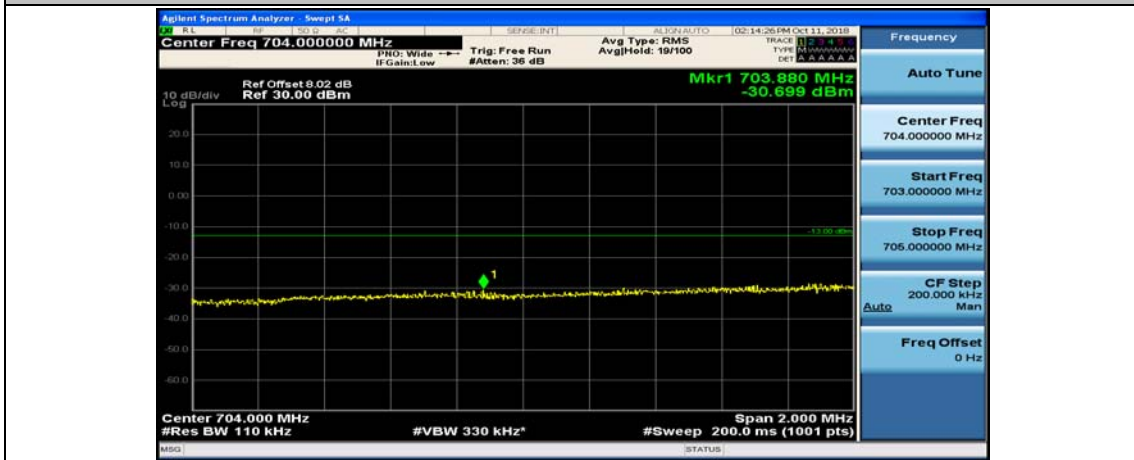
Channel Bandwidth: 10 MHz\_LCH\_16QAM\_1RB#49



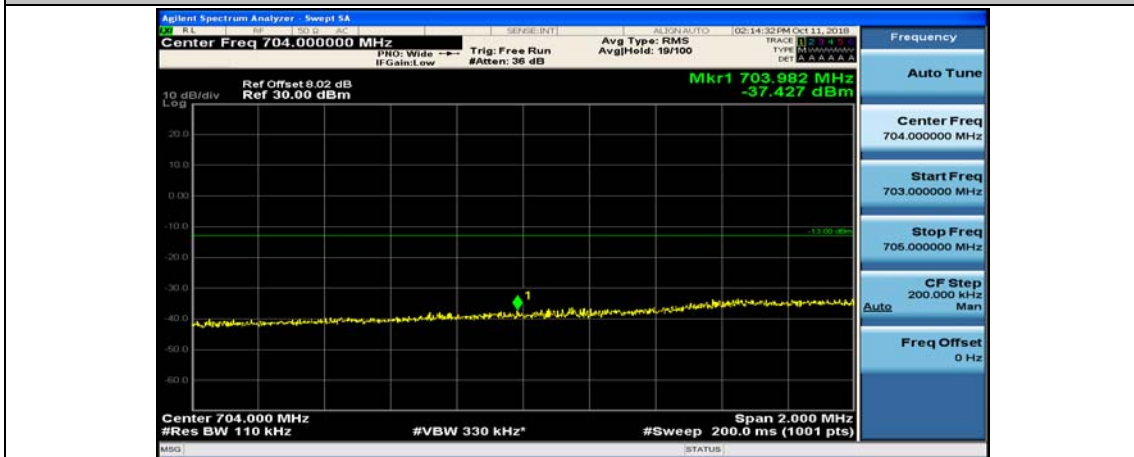
Channel Bandwidth: 10 MHz\_LCH\_16QAM\_25RB#0



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



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

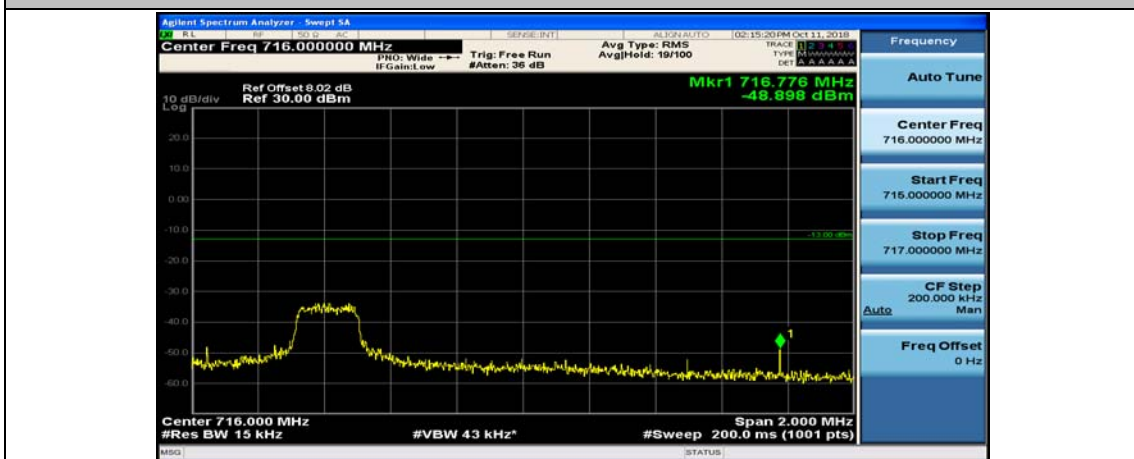


Channel Bandwidth: 10 MHz\_LCH\_16QAM\_50RB#0

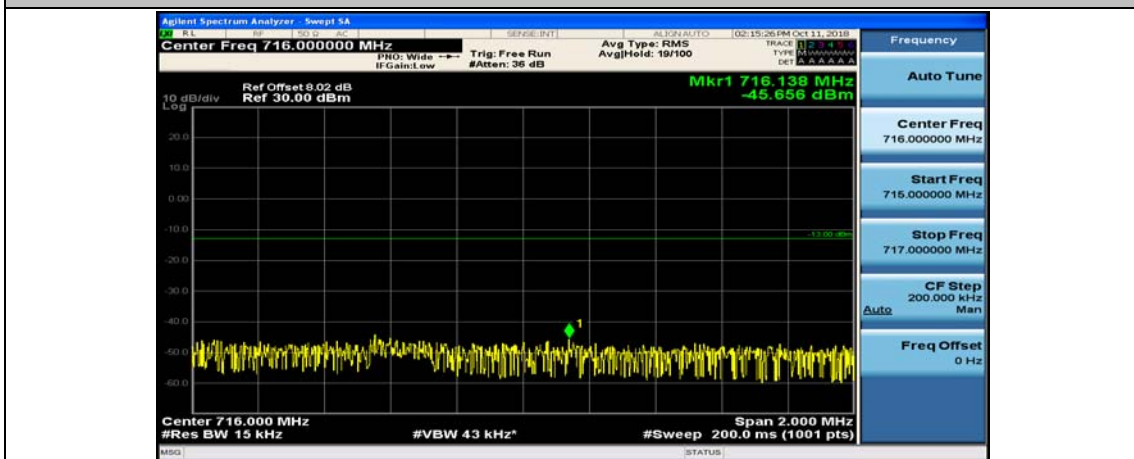




Channel Bandwidth: 10 MHz\_HCH\_16QAM\_1RB#0



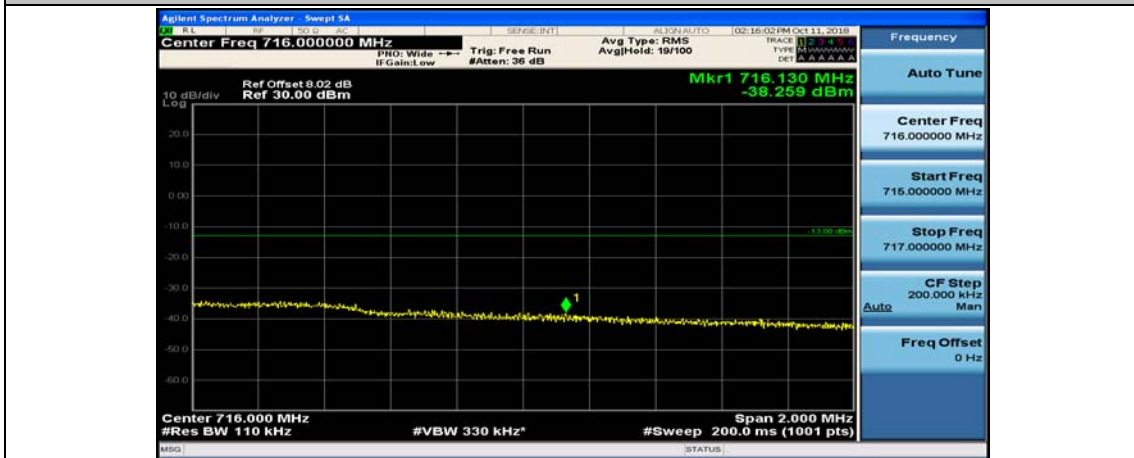
Channel Bandwidth: 10 MHz\_HCH\_16QAM\_1RB#24



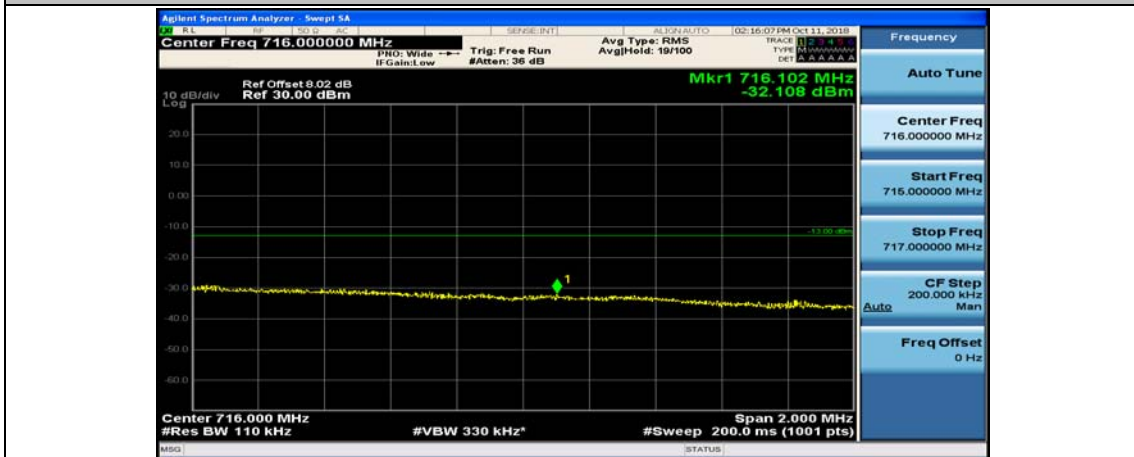
Channel Bandwidth: 10 MHz\_HCH\_16QAM\_1RB#49



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



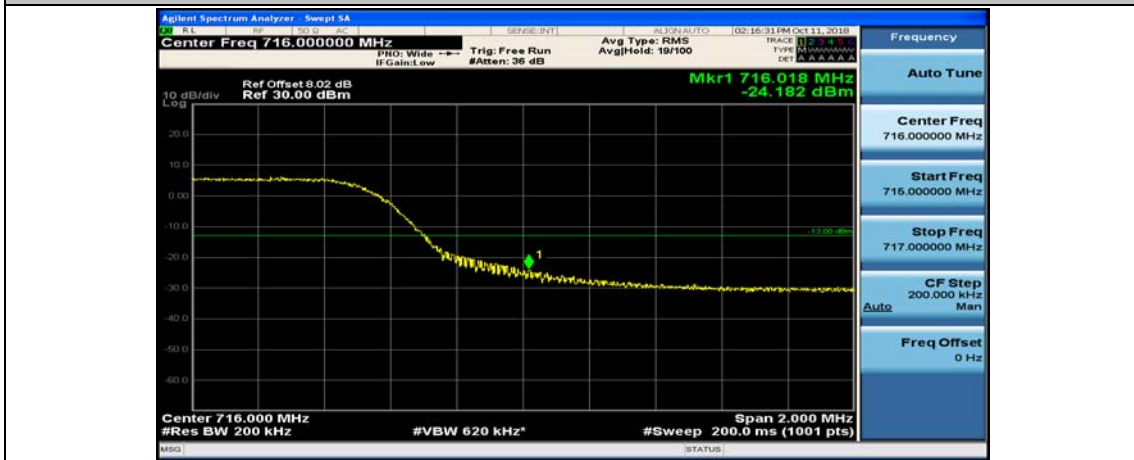
Channel Bandwidth: 10 MHz\_HCH\_16QAM\_25RB#12



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



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

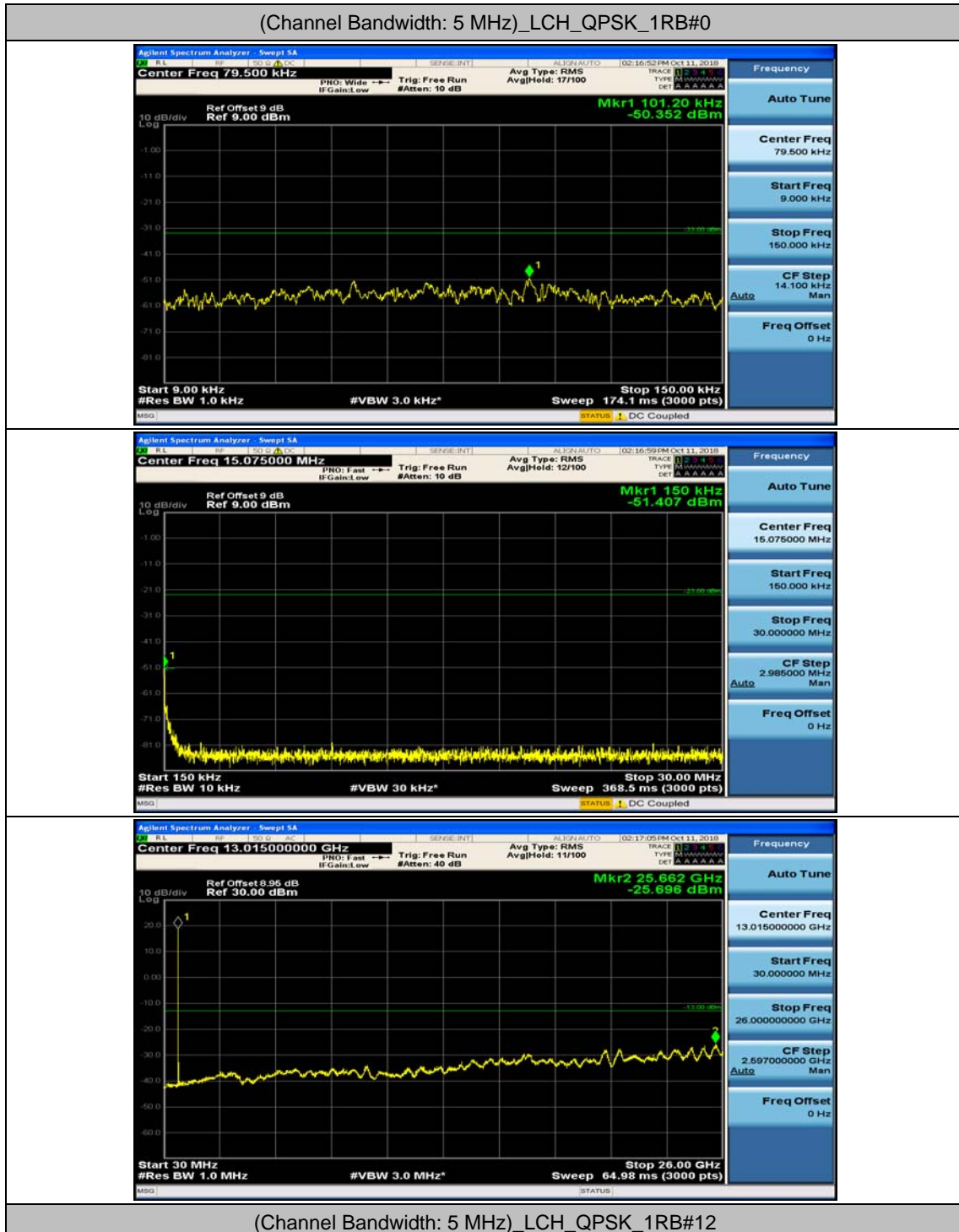


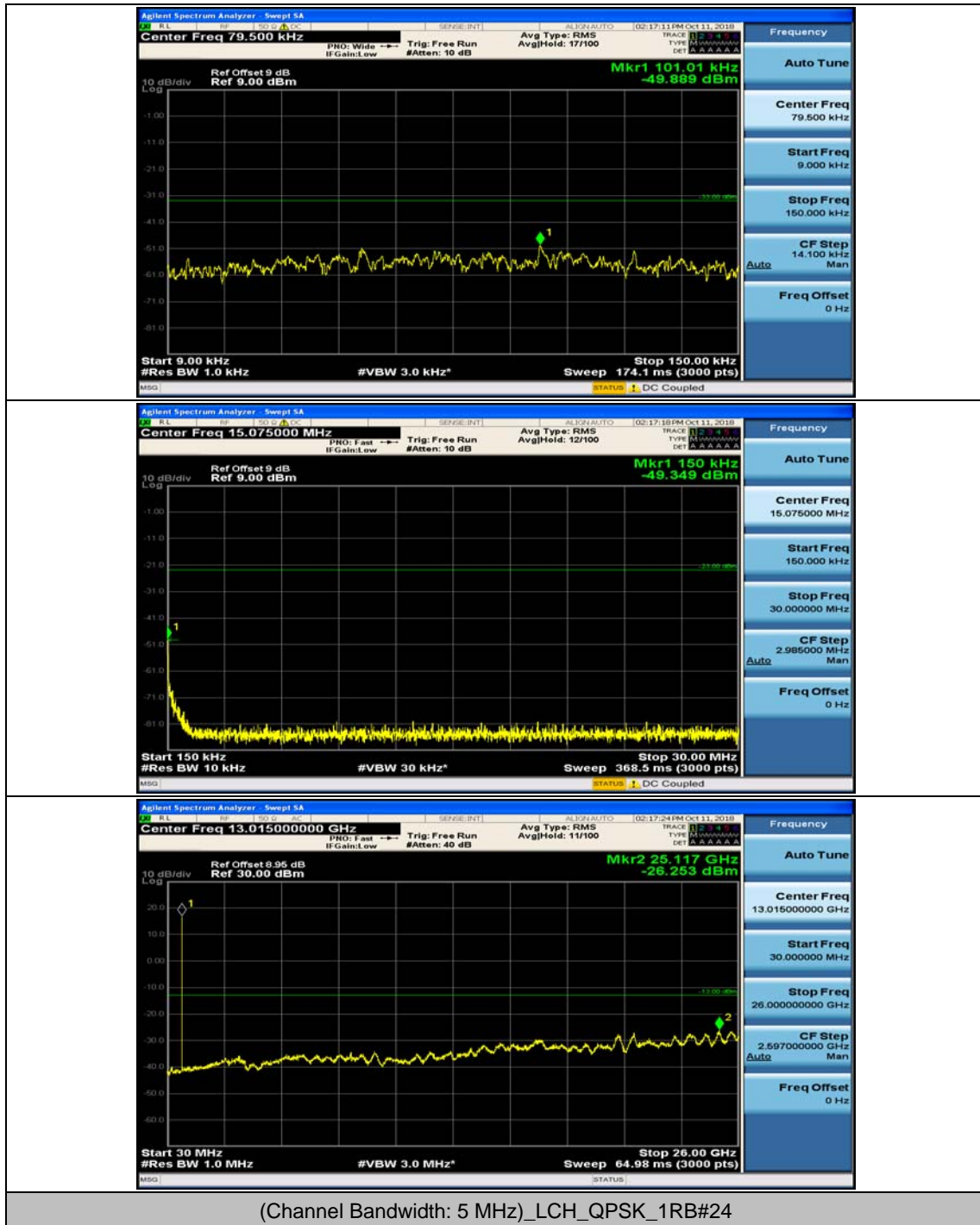


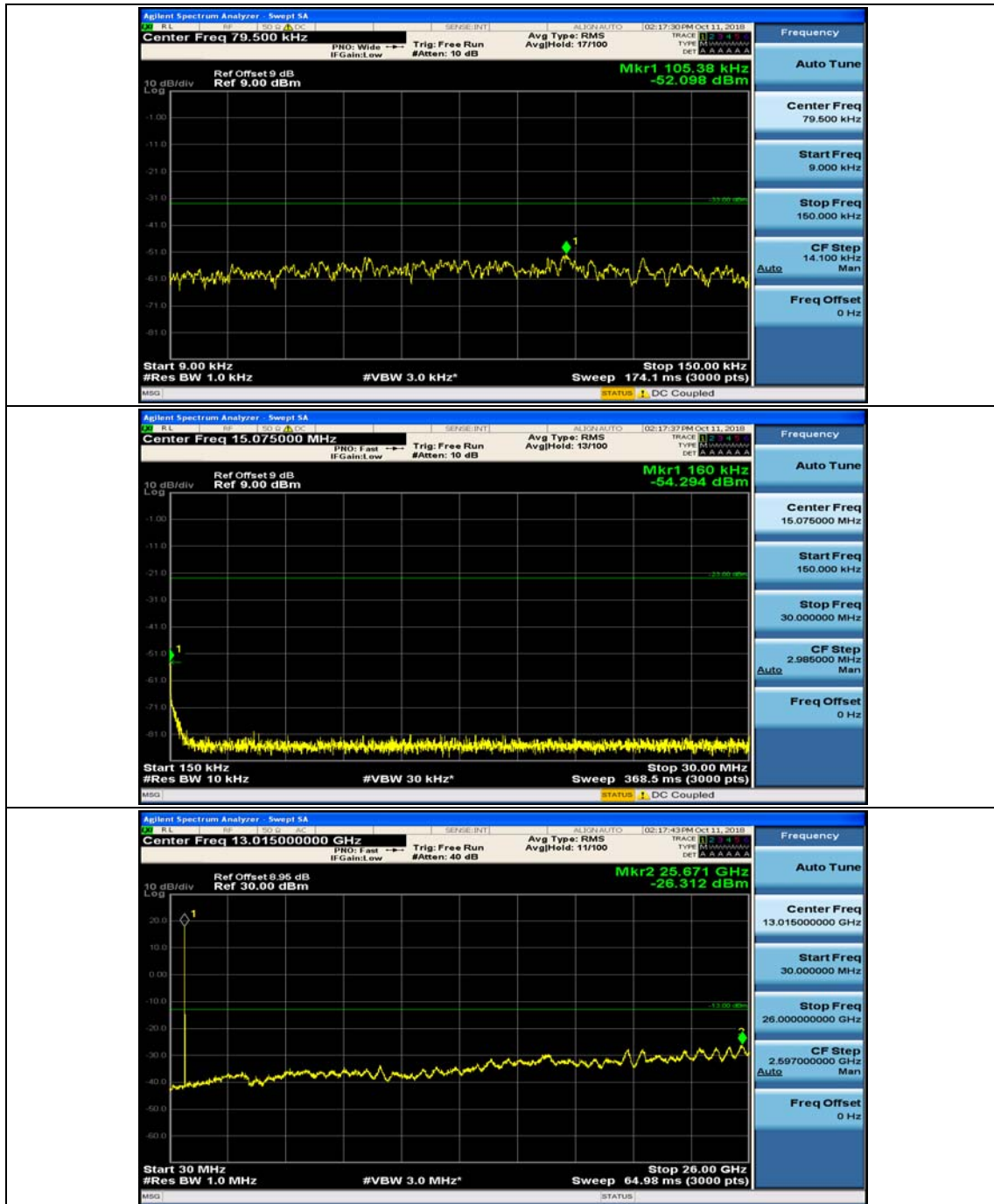
## Appendix E: Conducted Spurious Emission

### Test Graphs

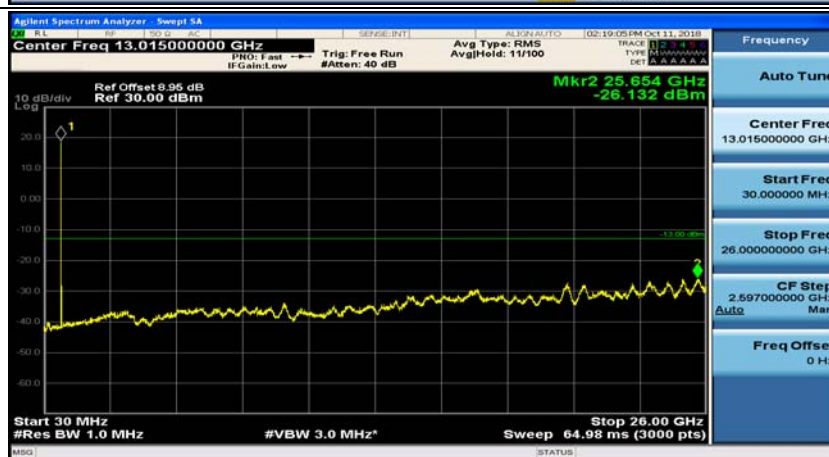
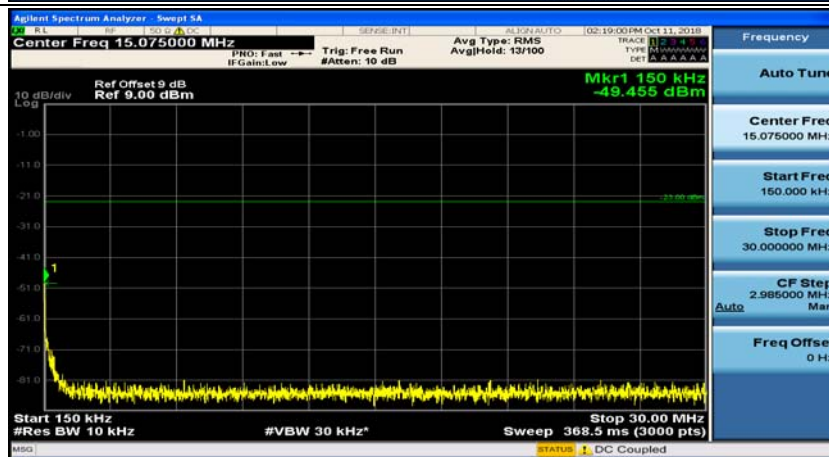
Channel Bandwidth: 5 MHz



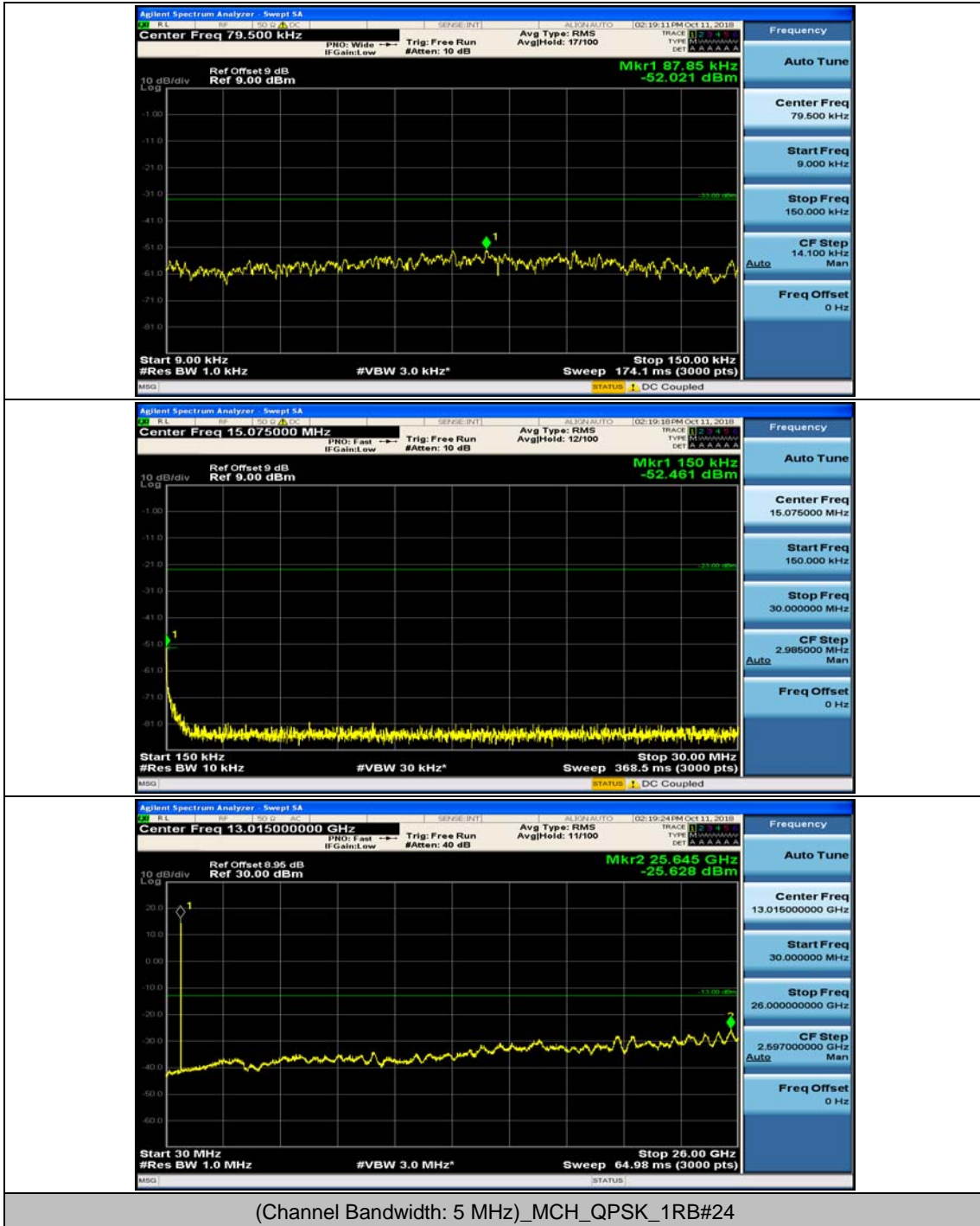




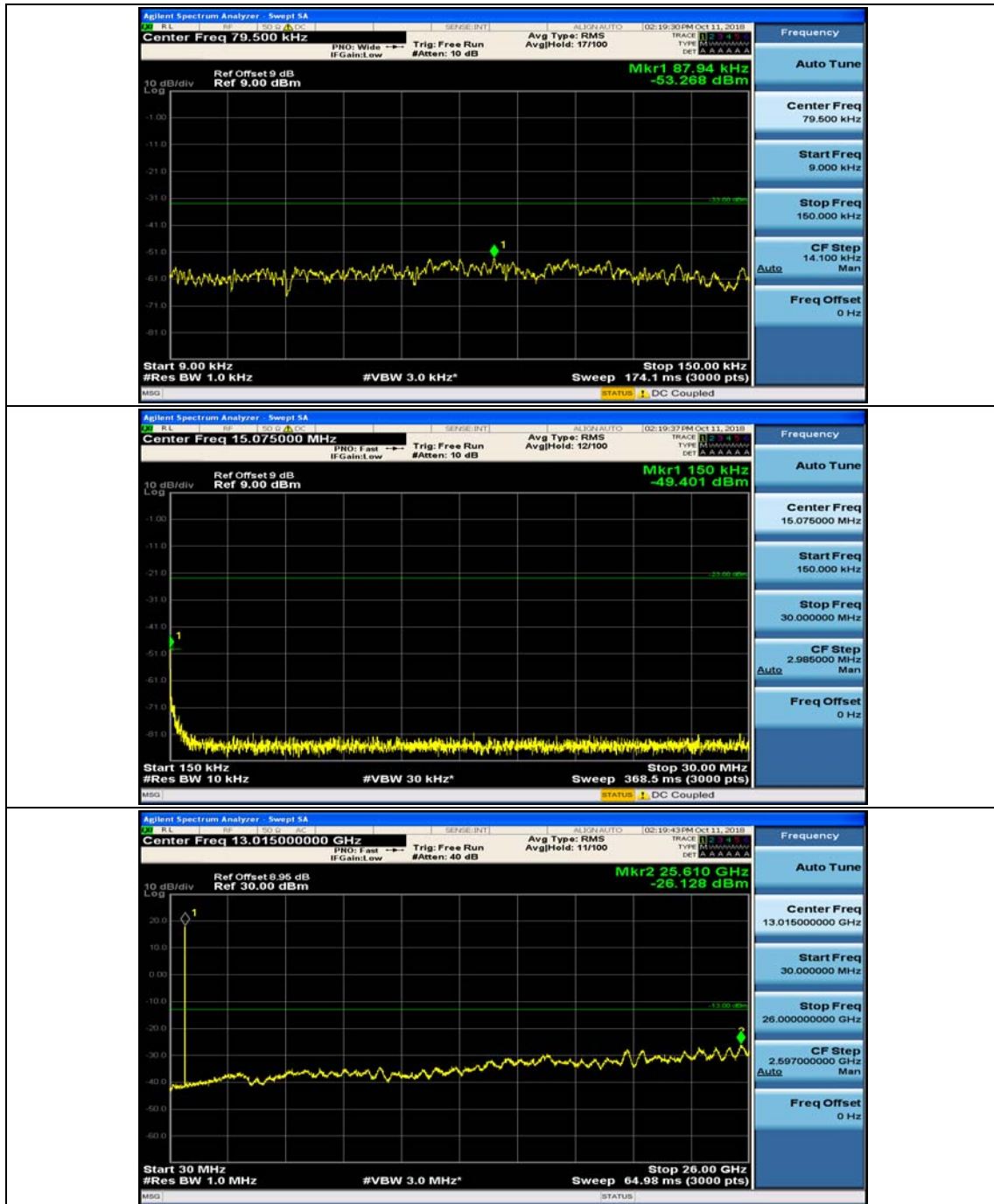
(Channel Bandwidth: 5 MHz)\_MCH\_QPSK\_1RB#0



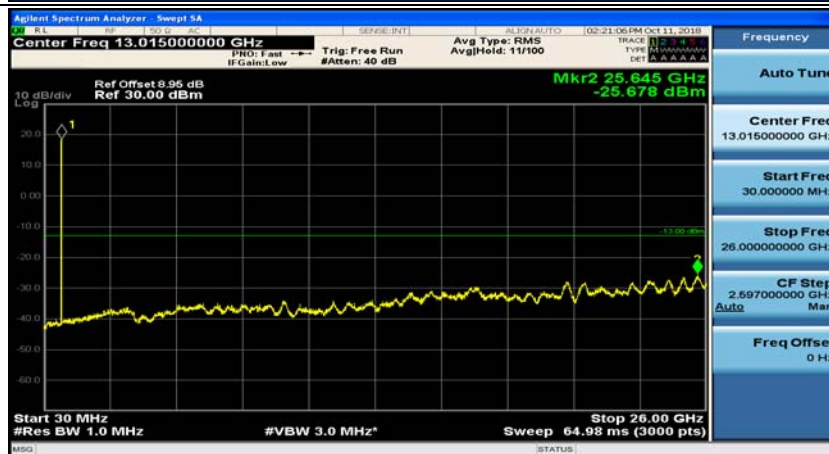
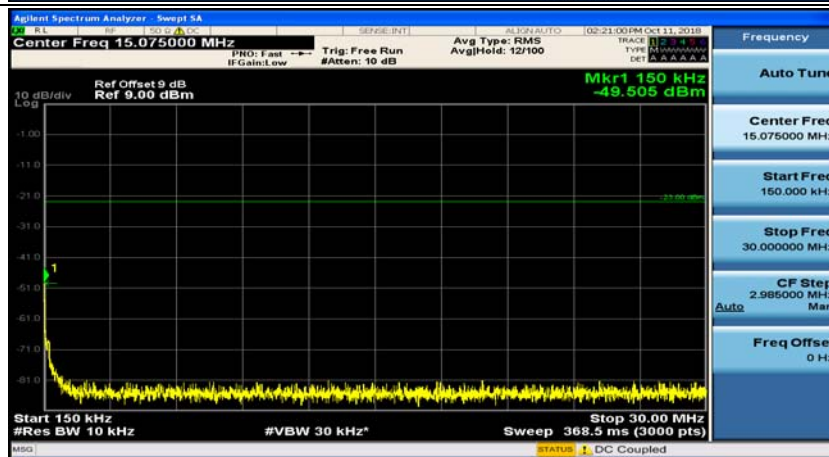
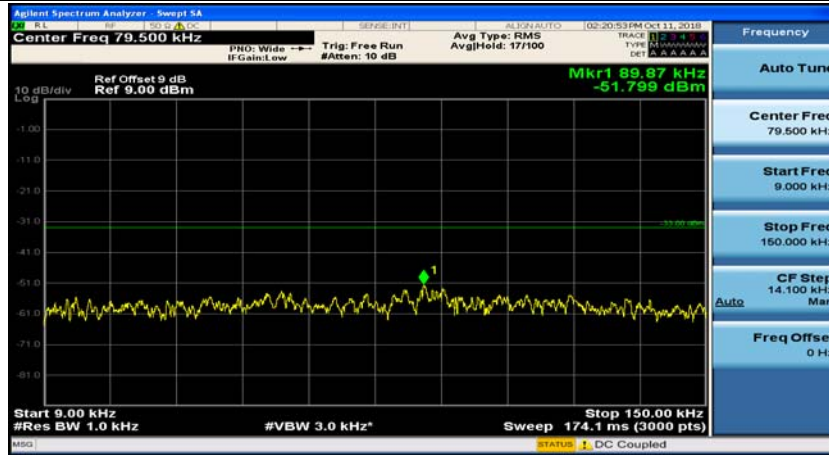
(Channel Bandwidth: 5 MHz)\_MCH\_QPSK\_1RB#12



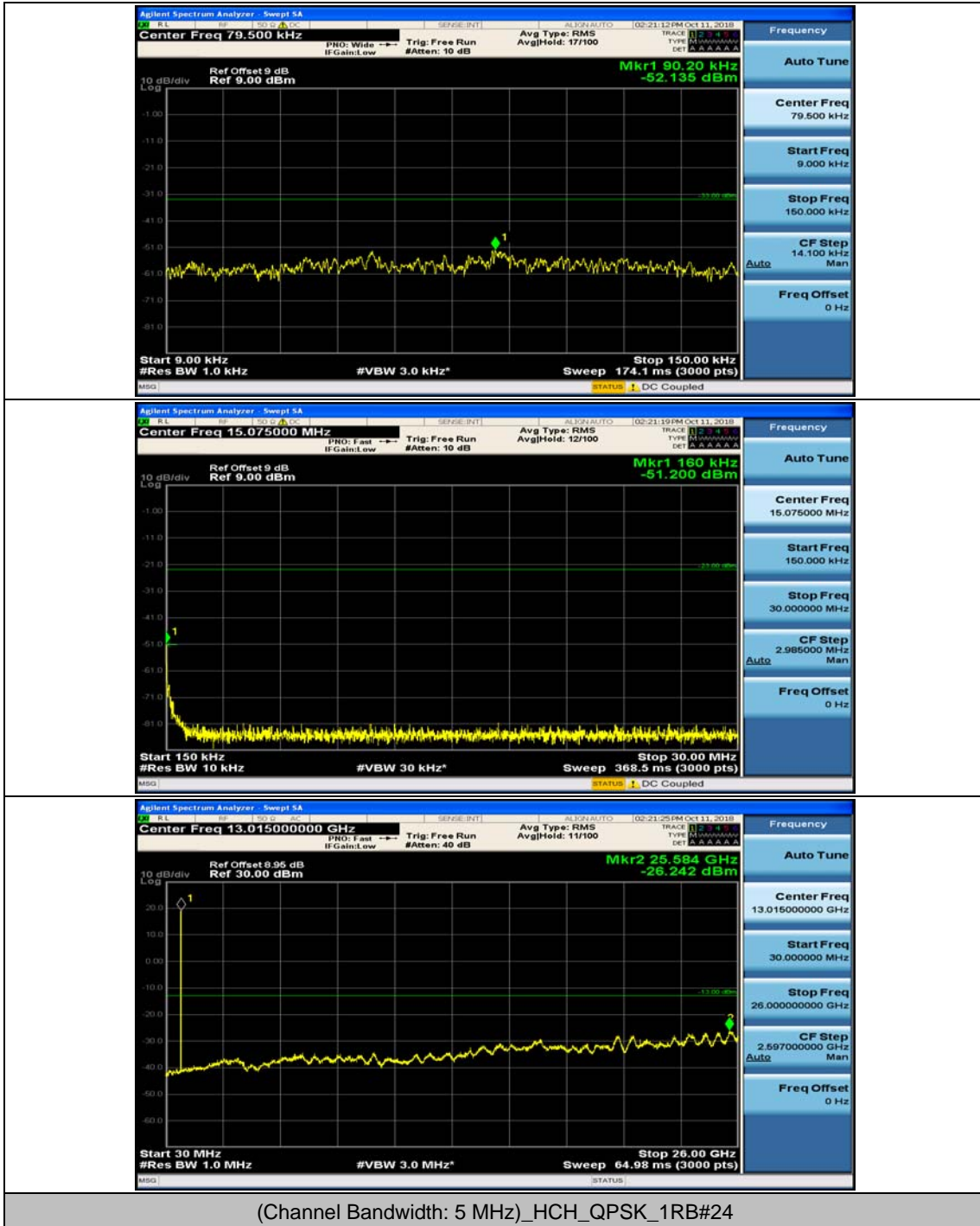


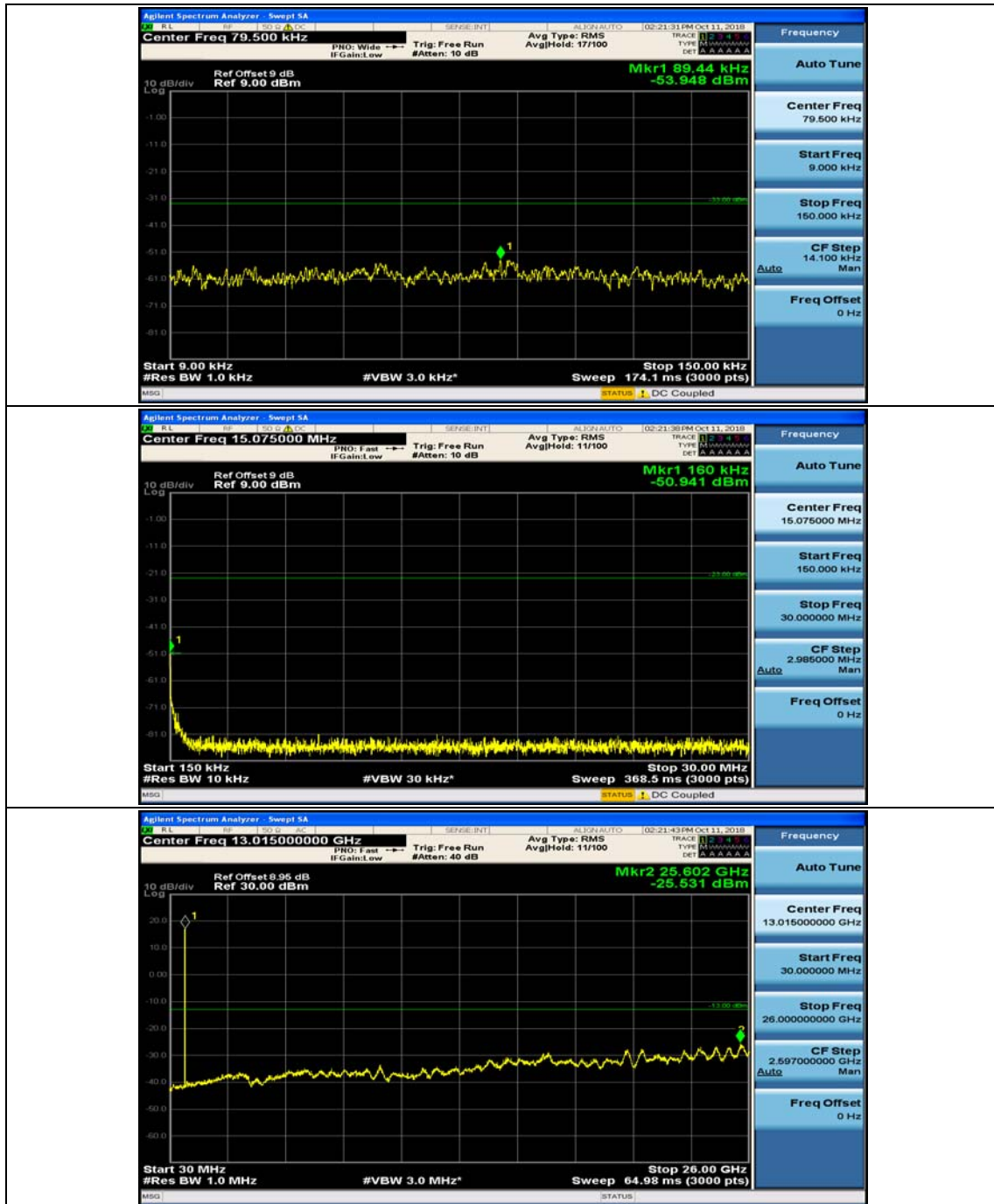


(Channel Bandwidth: 5 MHz)\_HCH\_QPSK\_1RB#0

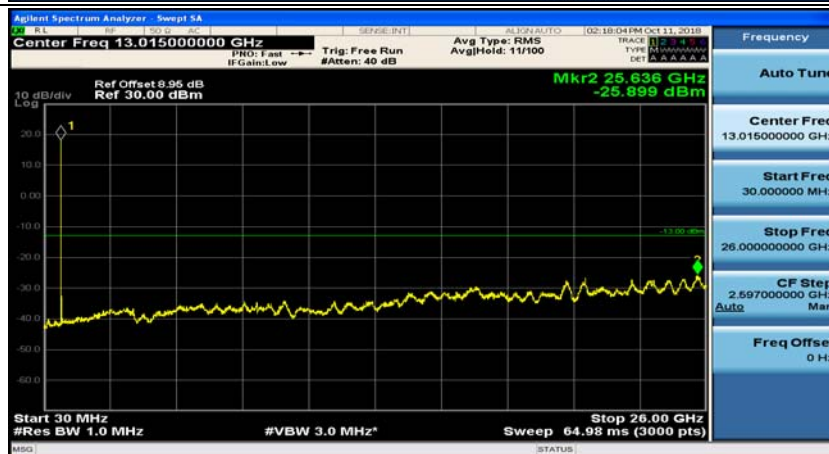
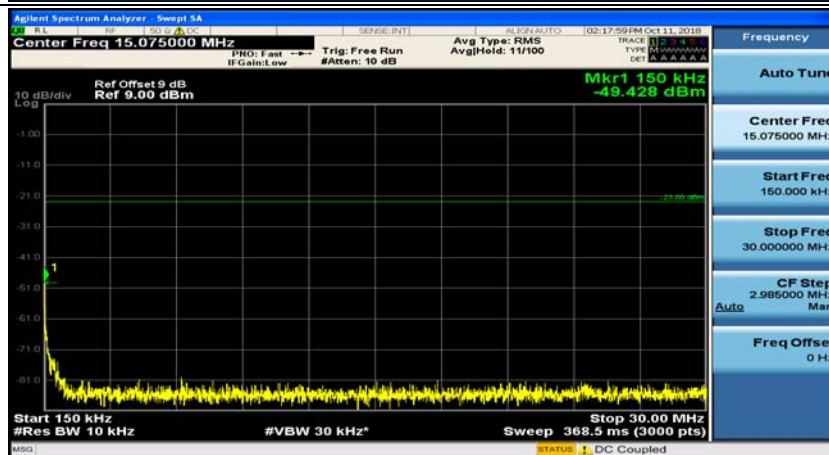
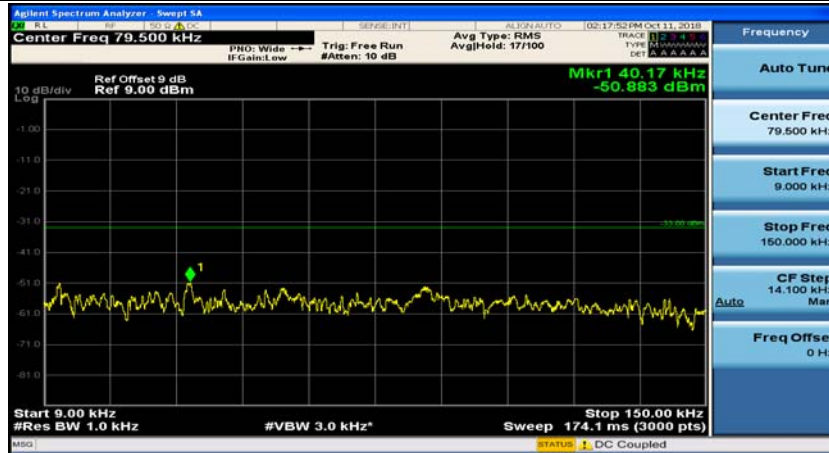


(Channel Bandwidth: 5 MHz)\_HCH\_QPSK\_1RB#12



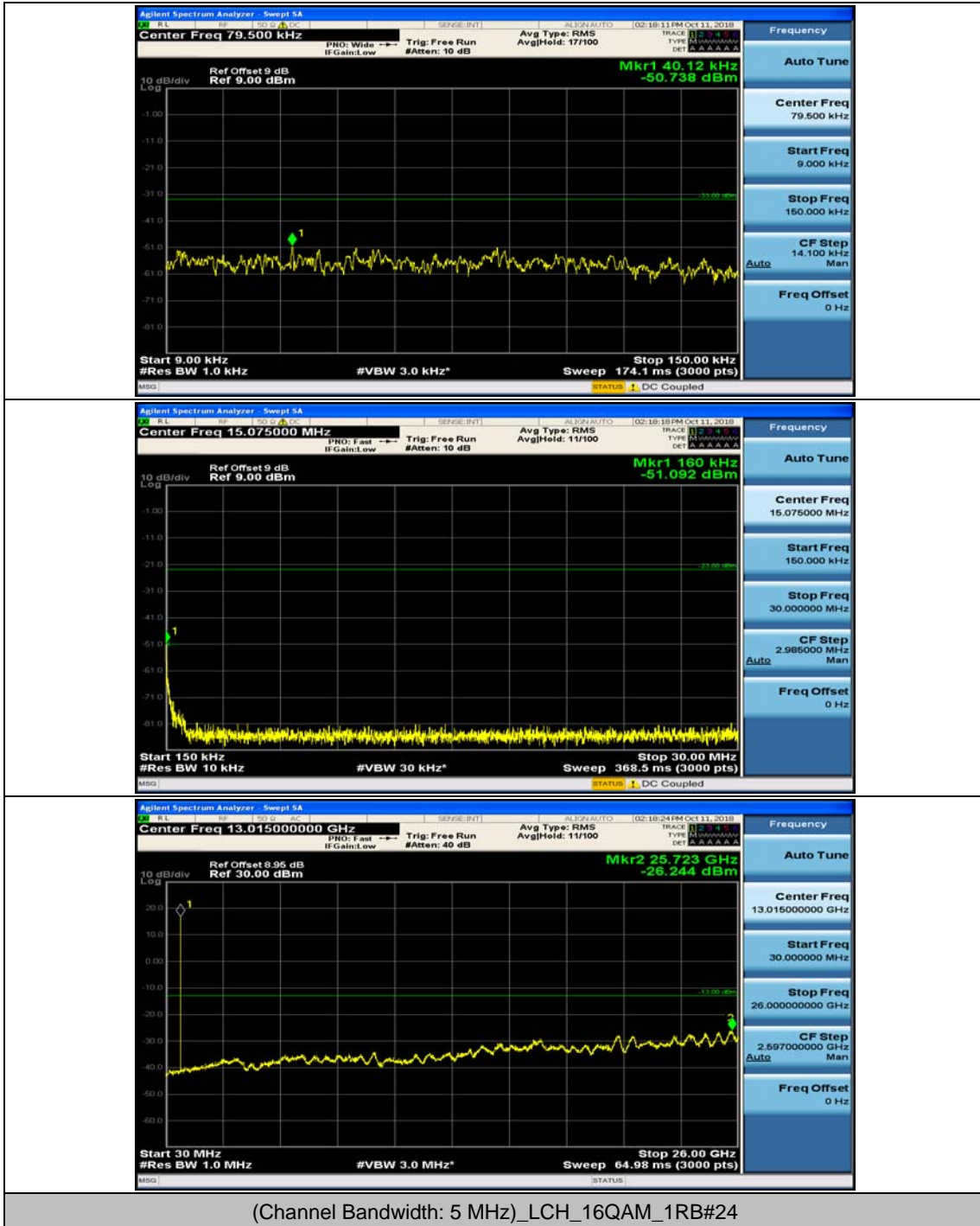


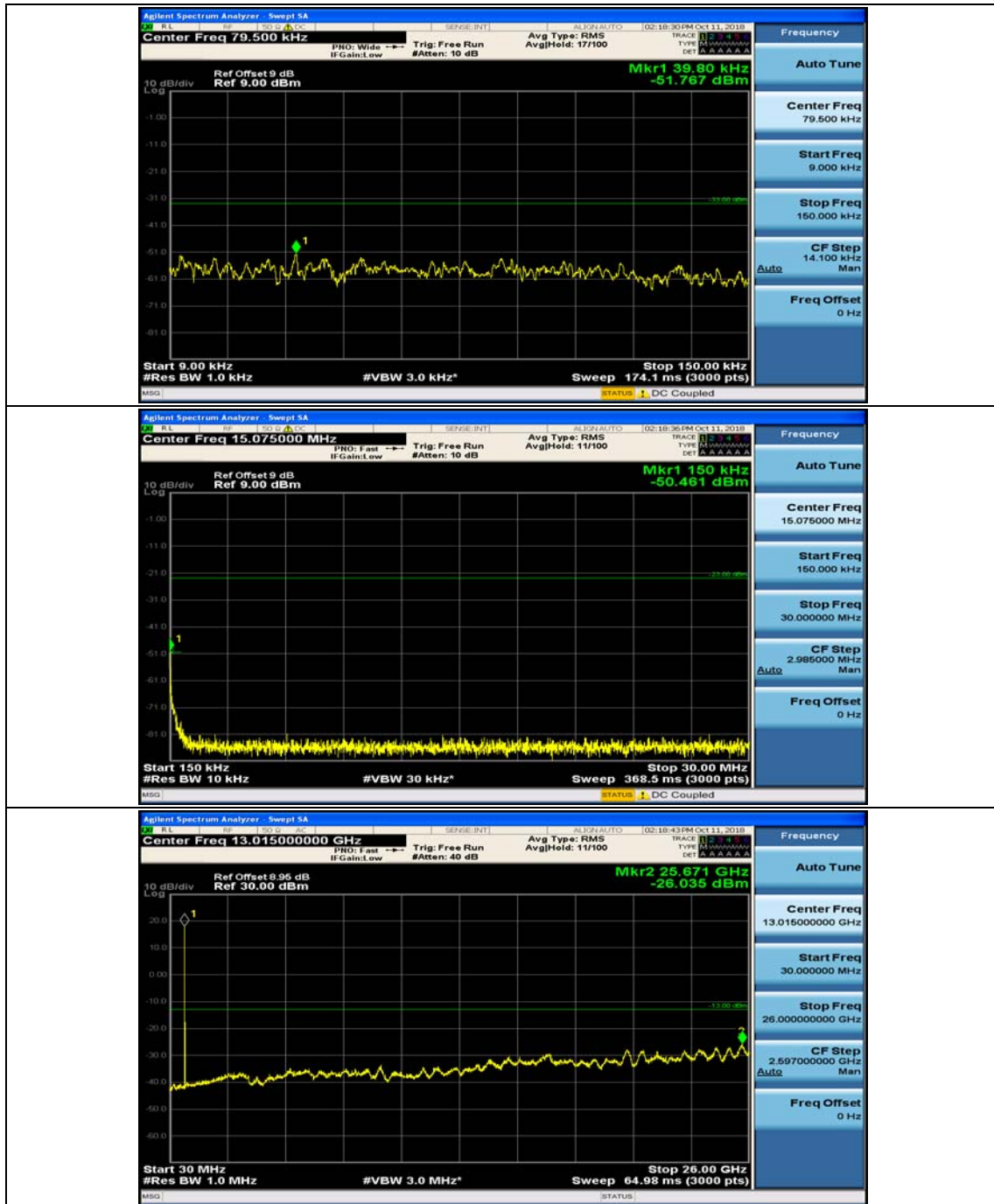
(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_1RB#0



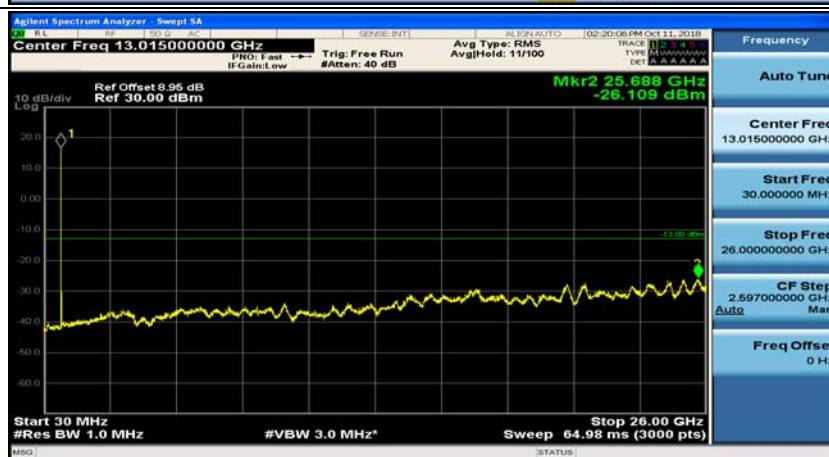
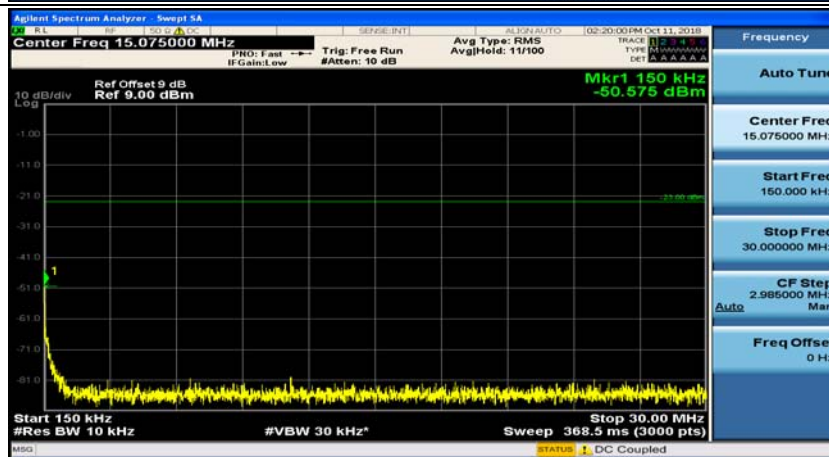
(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_1RB#12



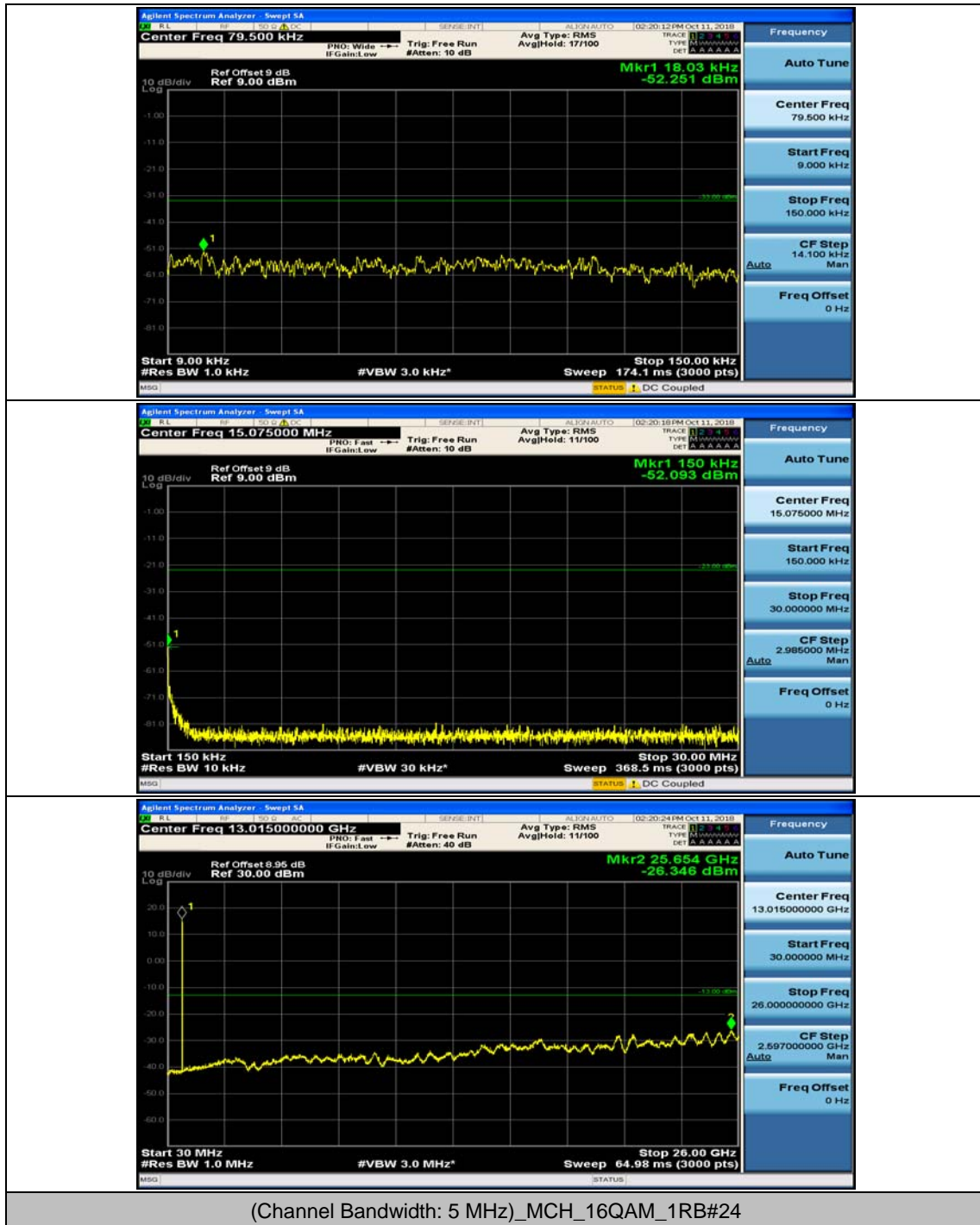


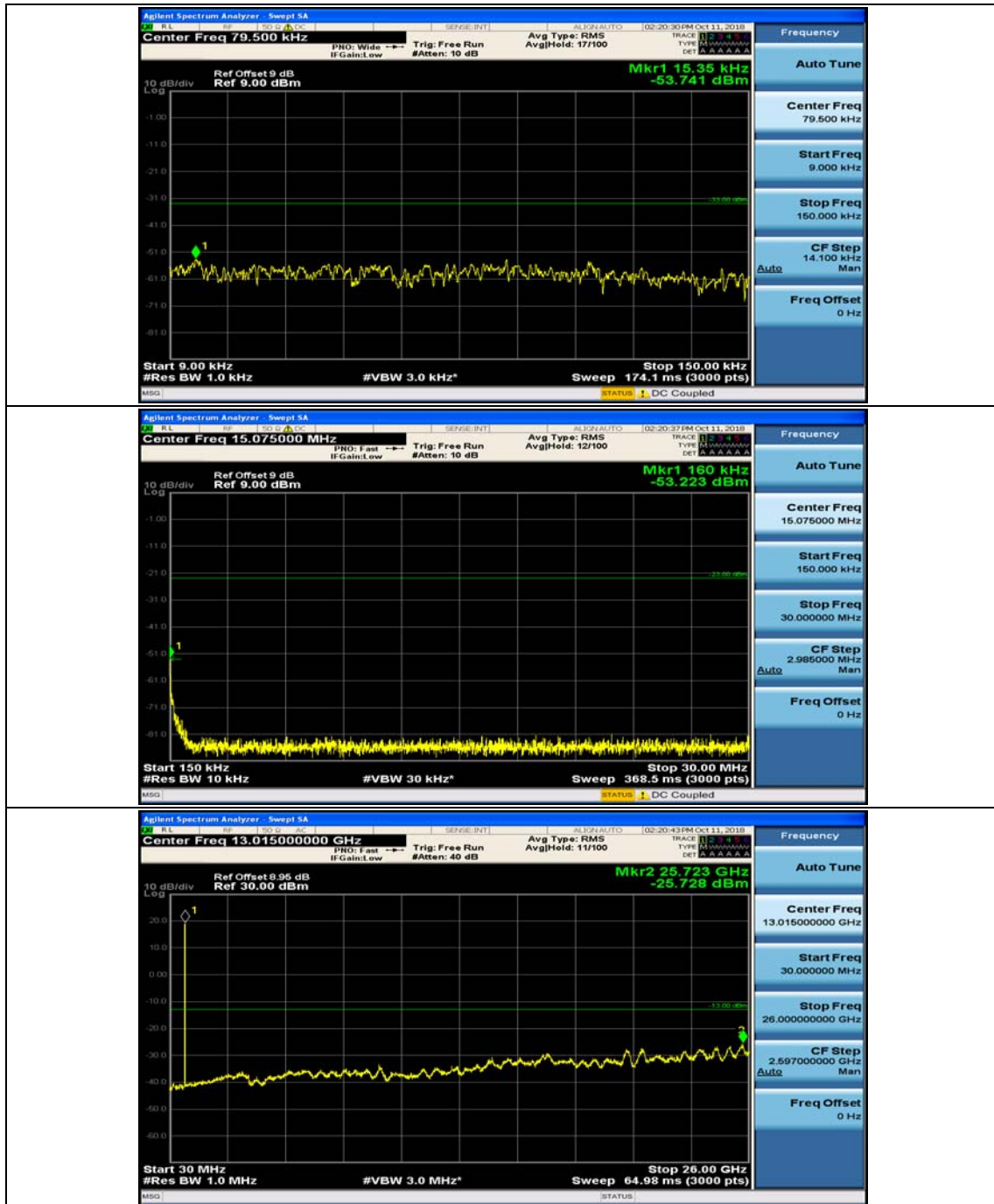


(Channel Bandwidth: 5 MHz)\_MCH\_16QAM\_1RB#0



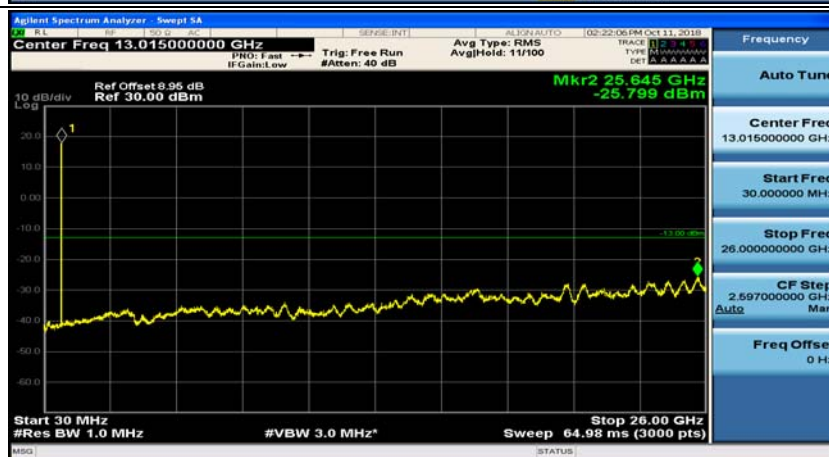
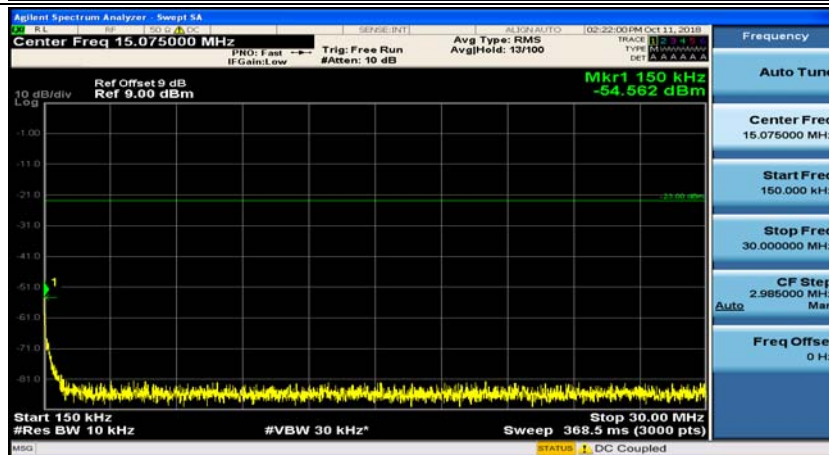
(Channel Bandwidth: 5 MHz)\_MCH\_16QAM\_1RB#12



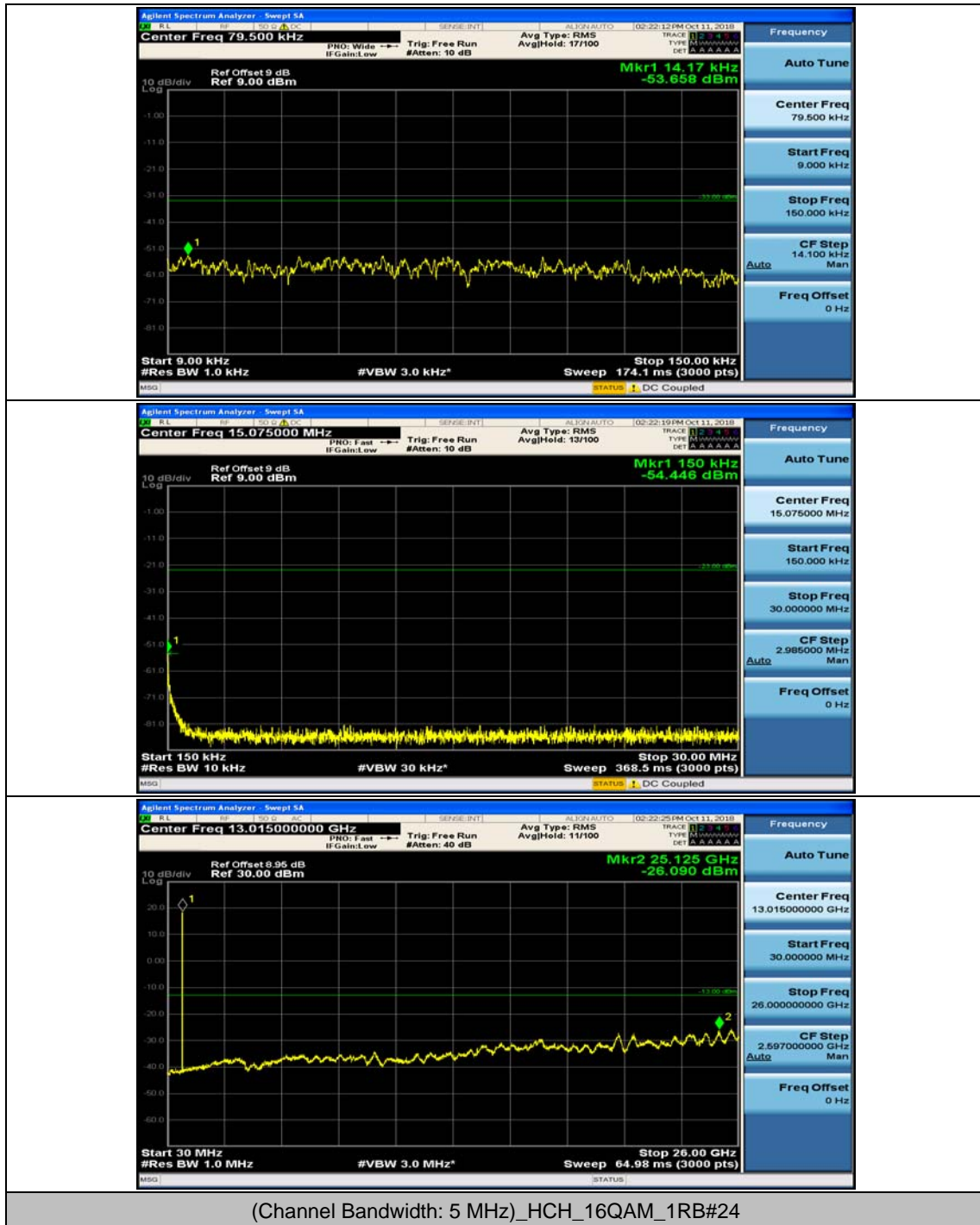


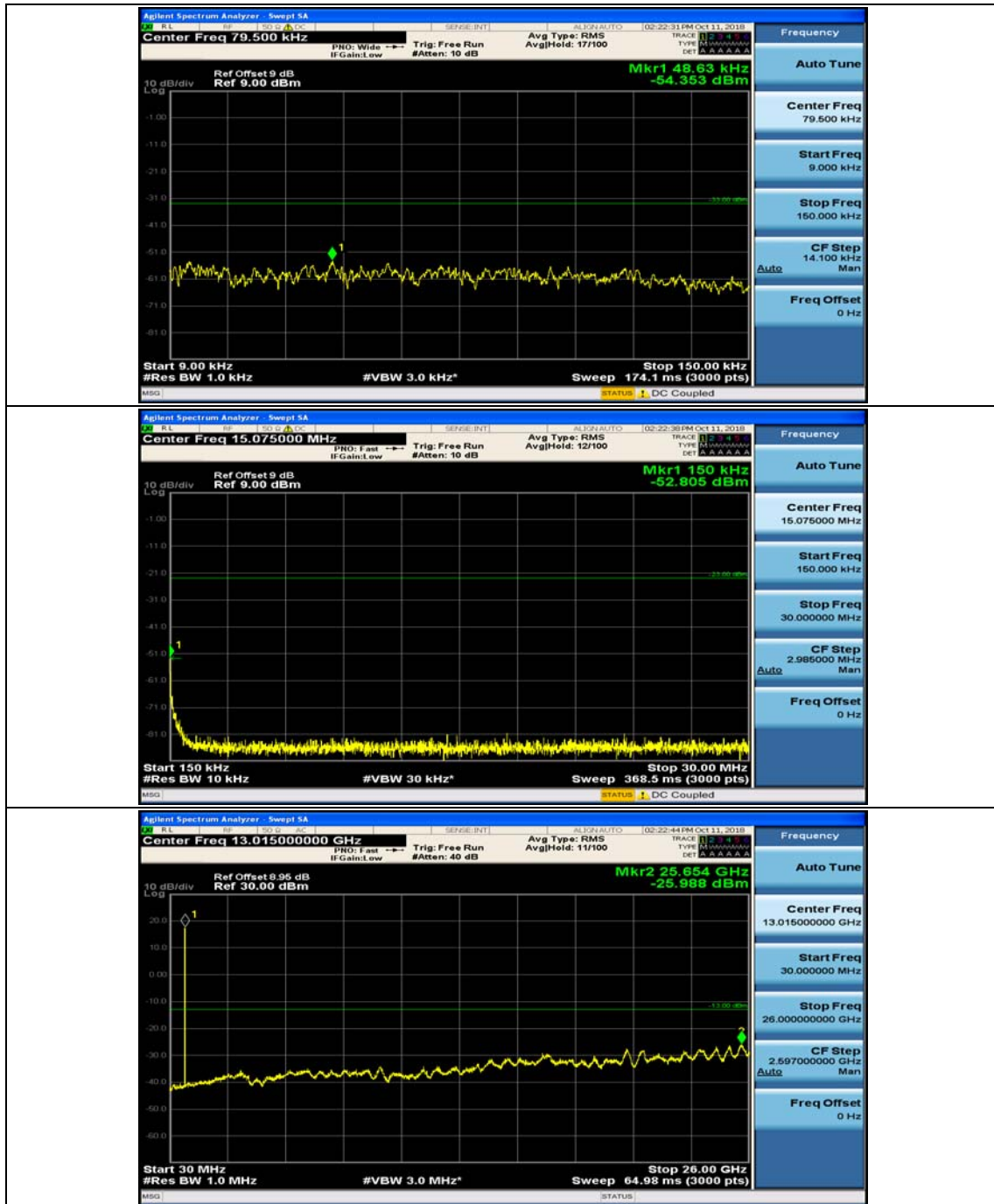


(Channel Bandwidth: 5 MHz)\_HCH\_16QAM\_1RB#0

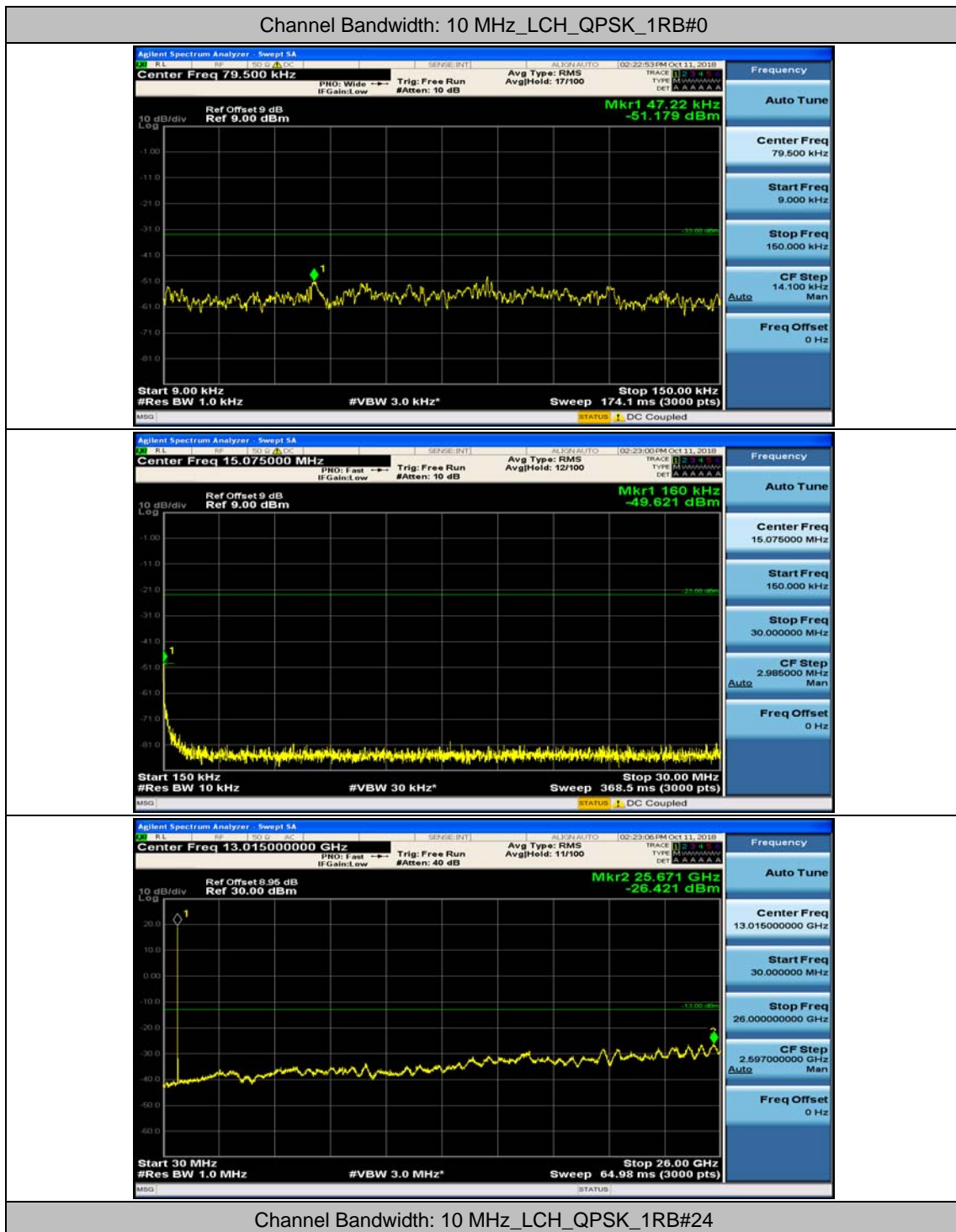


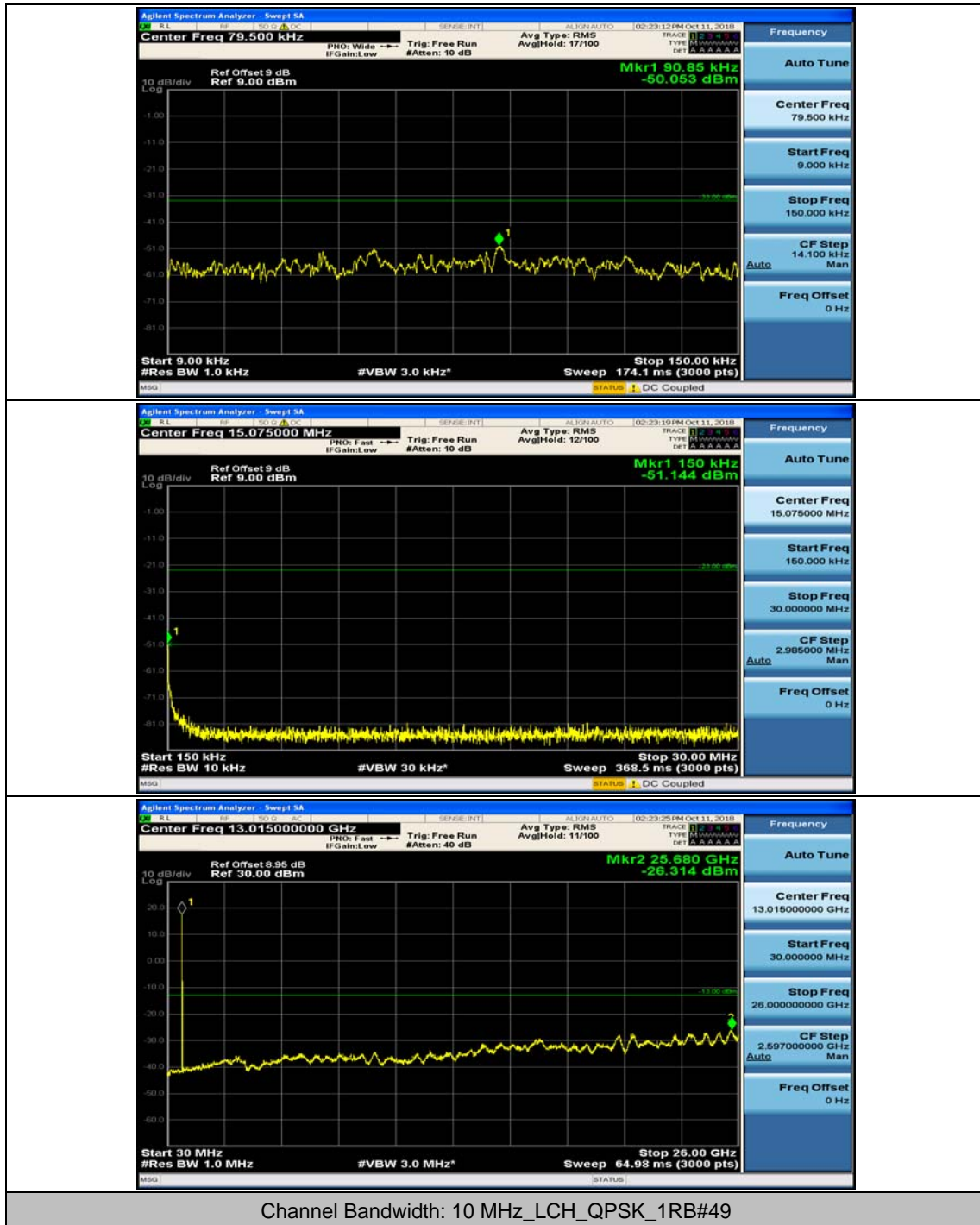
(Channel Bandwidth: 5 MHz)\_HCH\_16QAM\_1RB#12



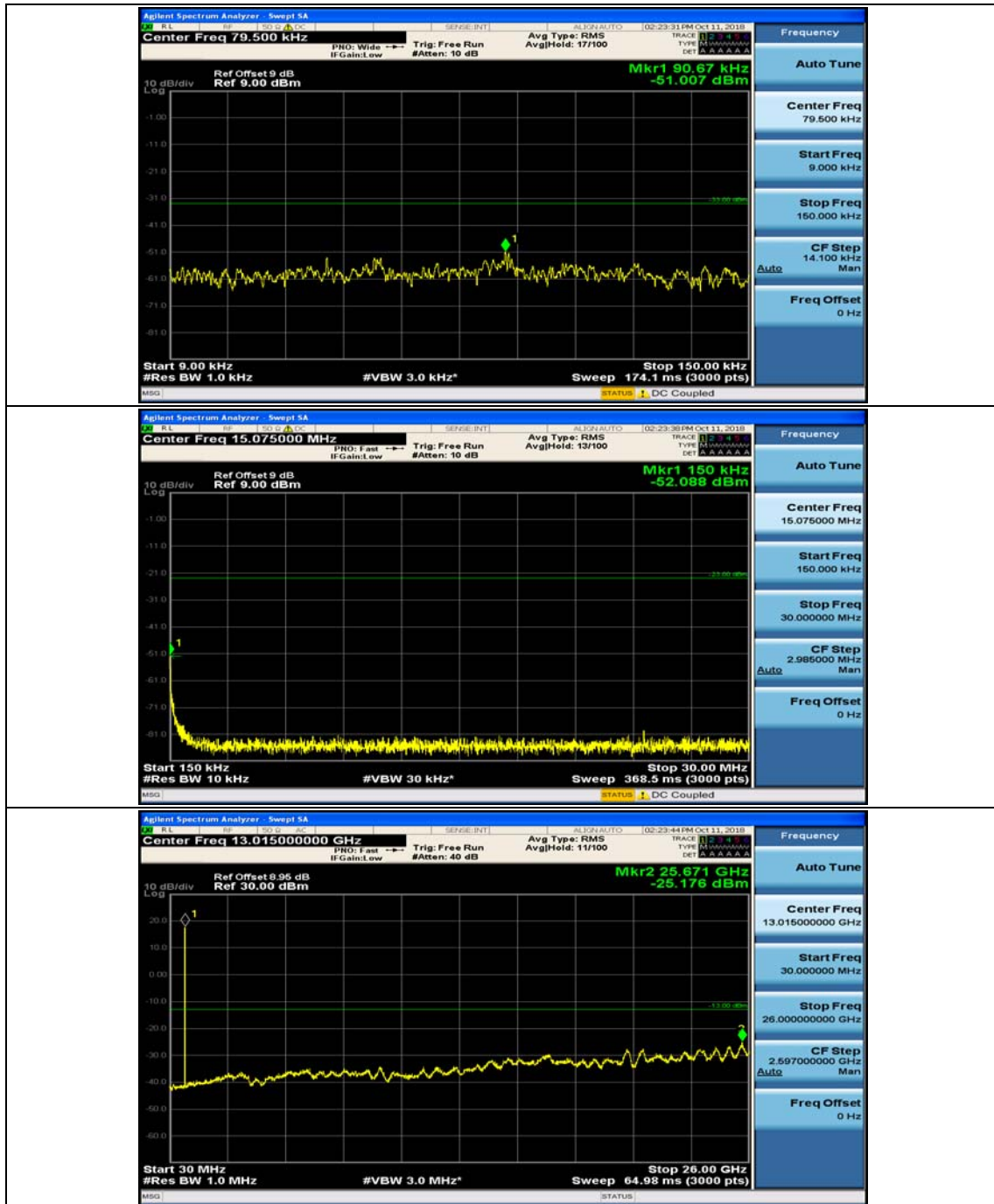


### Channel Bandwidth: 10 MHz

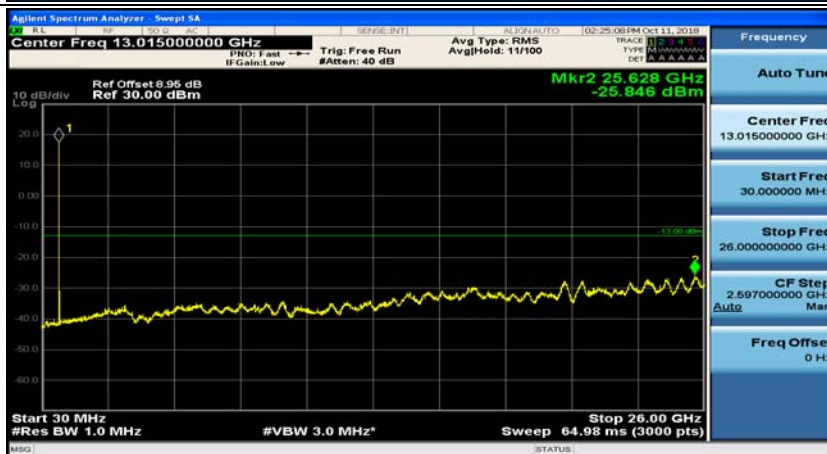
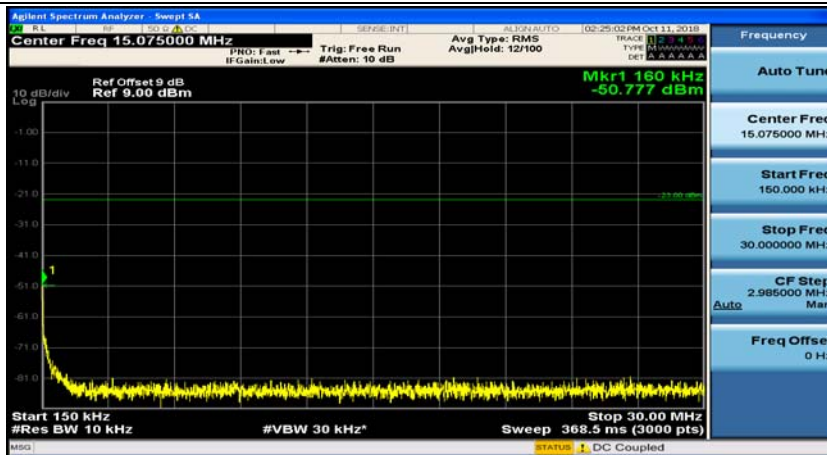




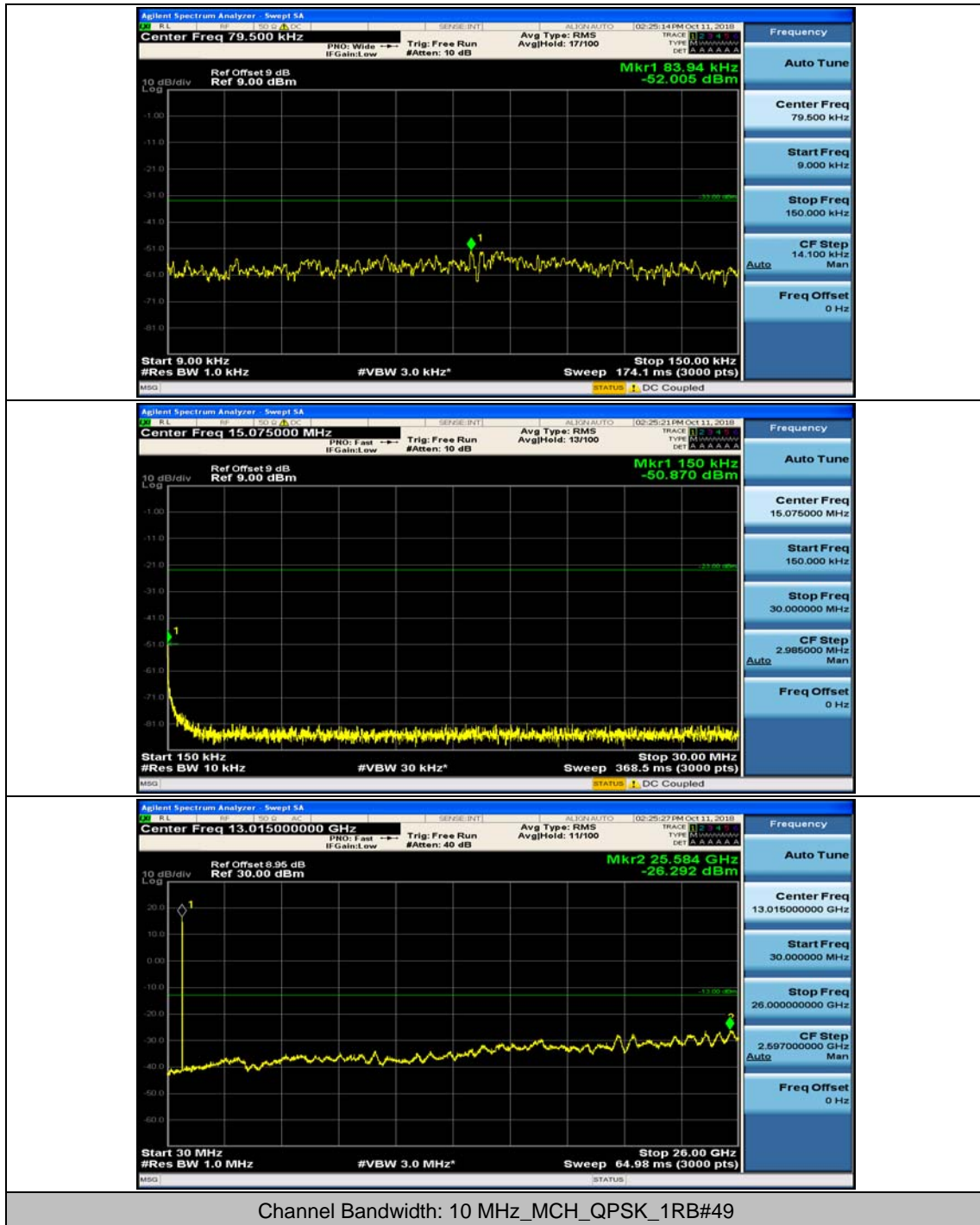


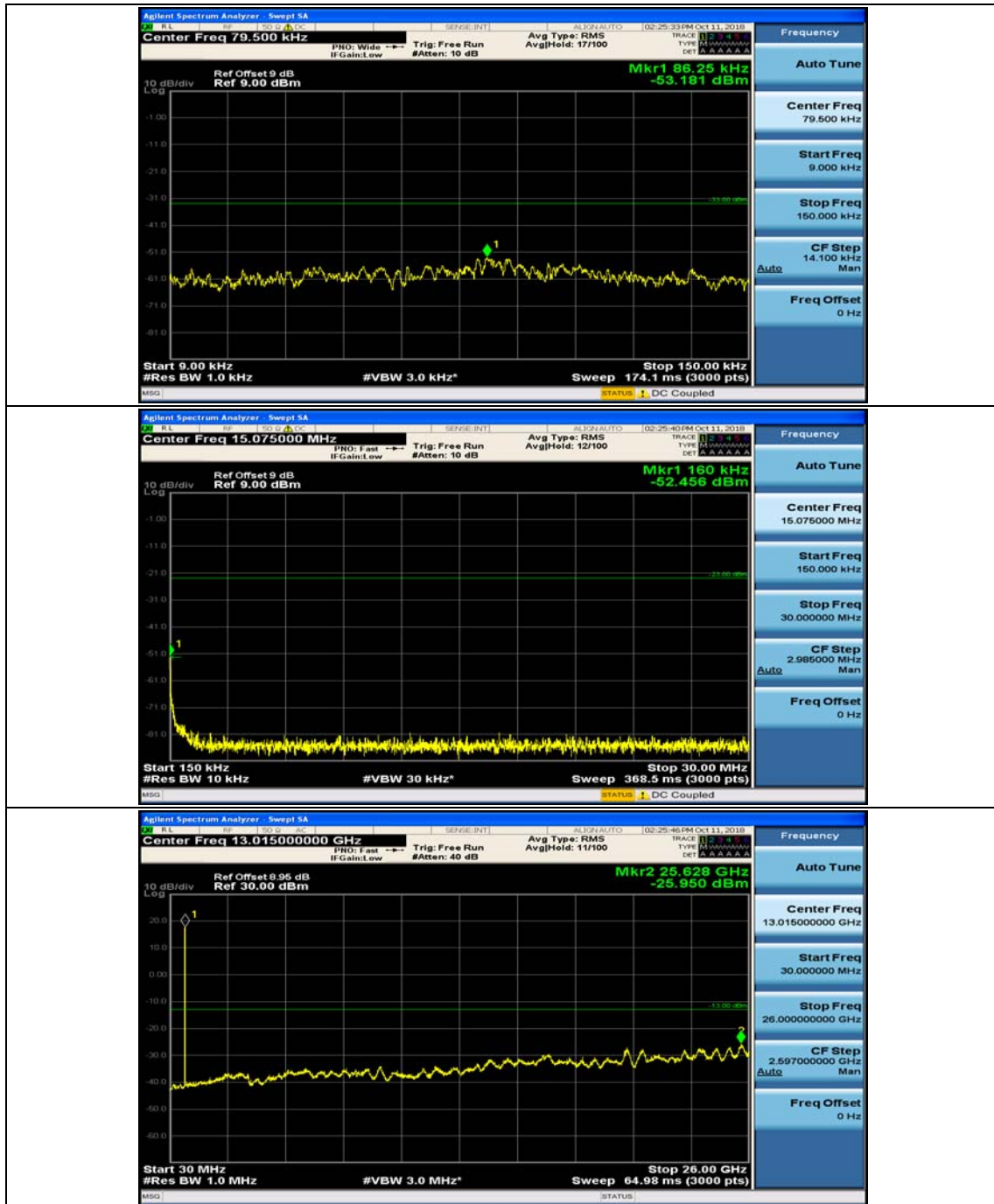


Channel Bandwidth: 10 MHz\_MCH\_QPSK\_1RB#0

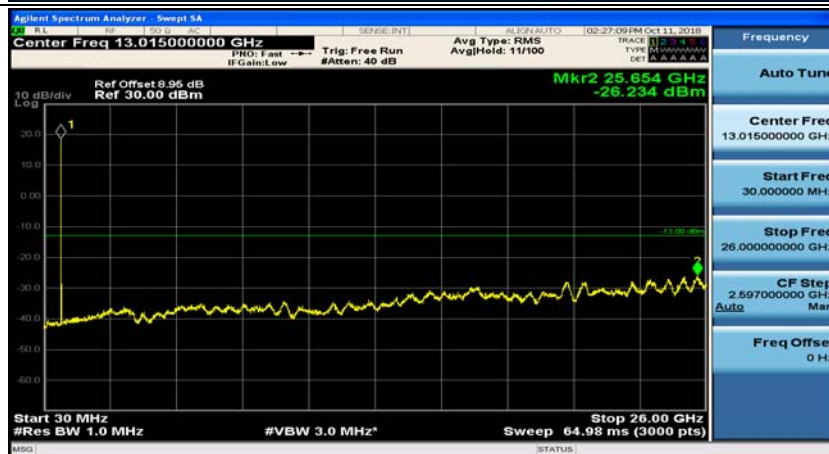
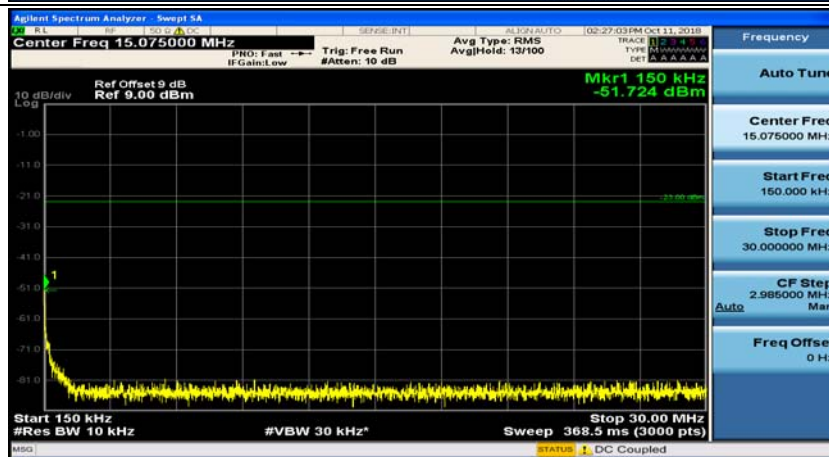
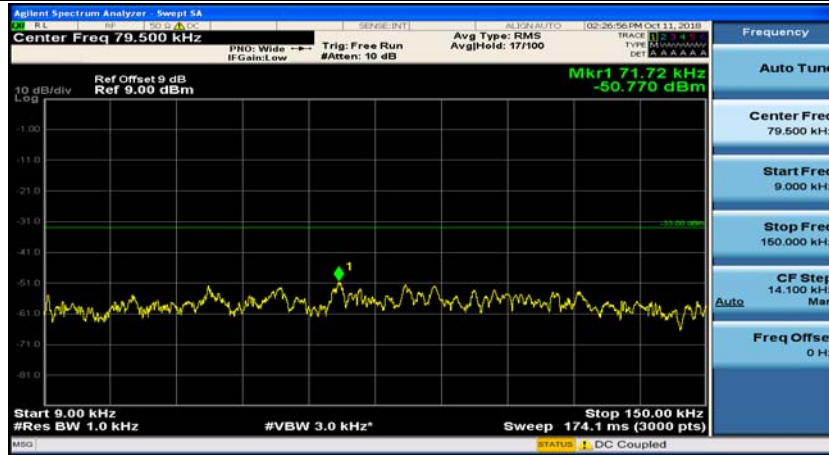


Channel Bandwidth: 10 MHz\_MCH\_QPSK\_1RB#24



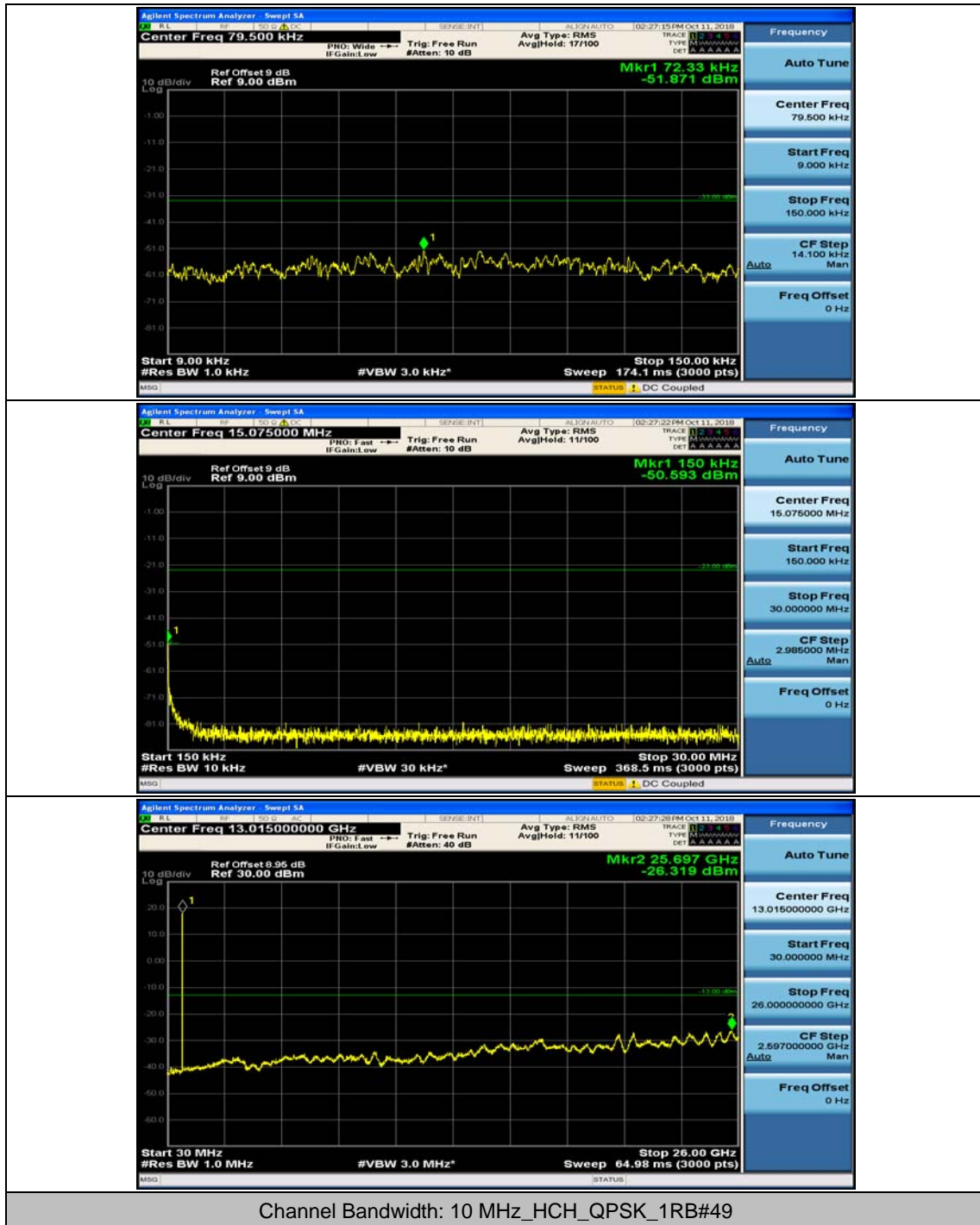


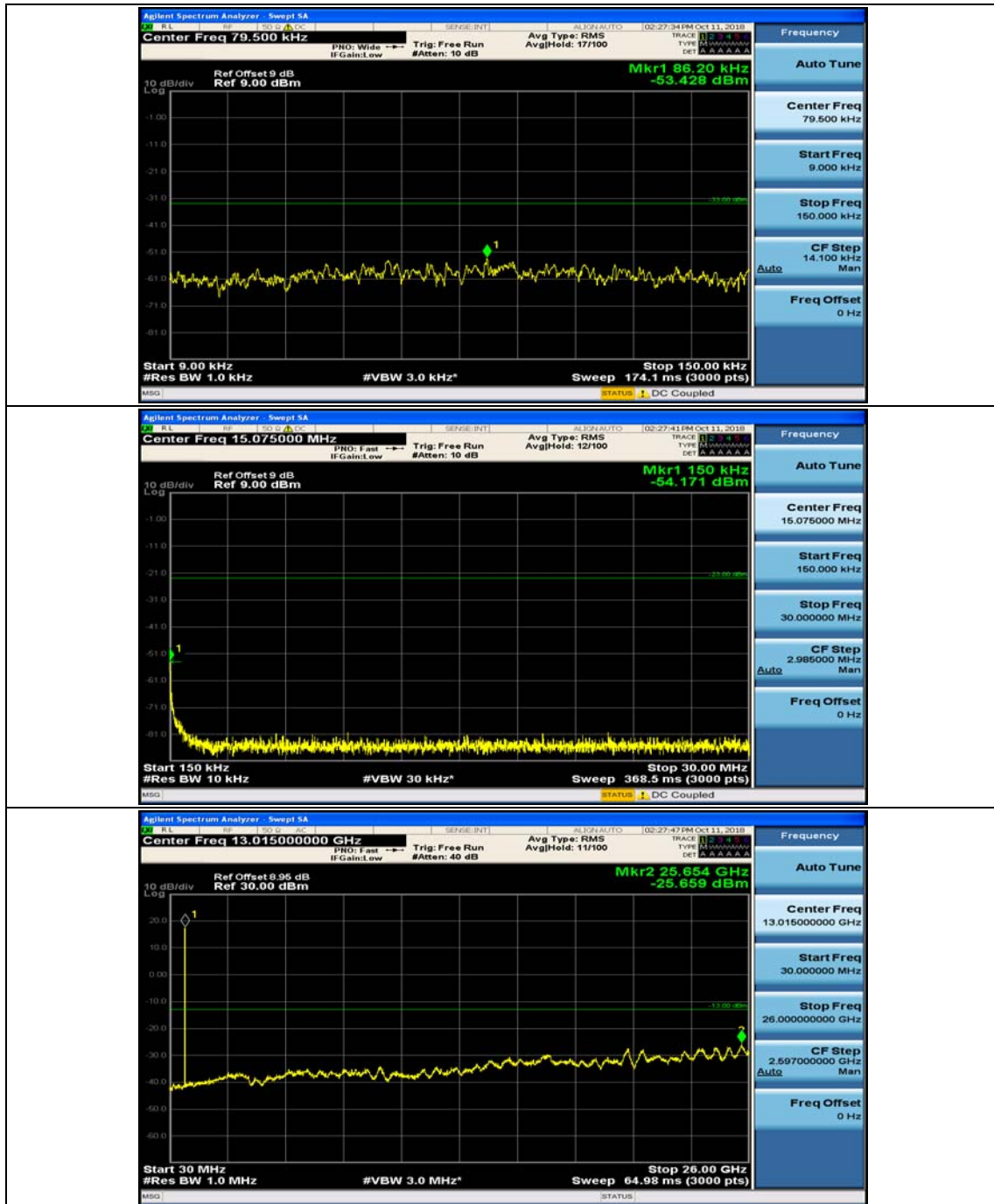
Channel Bandwidth: 10 MHz\_HCH\_QPSK\_1RB#0



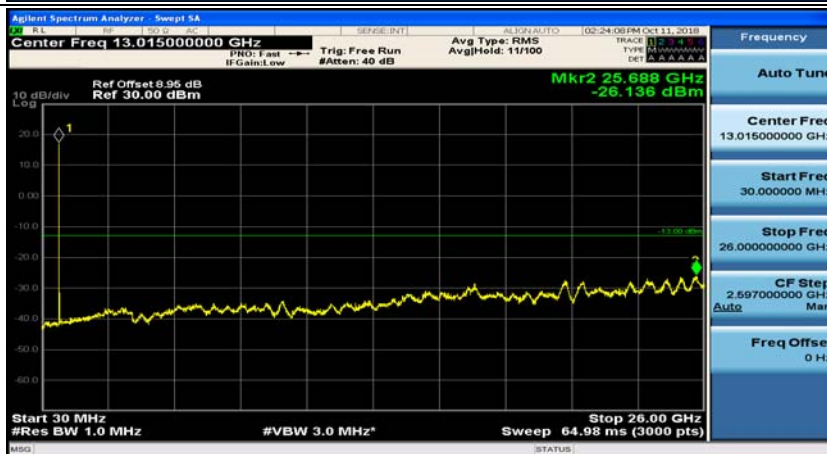
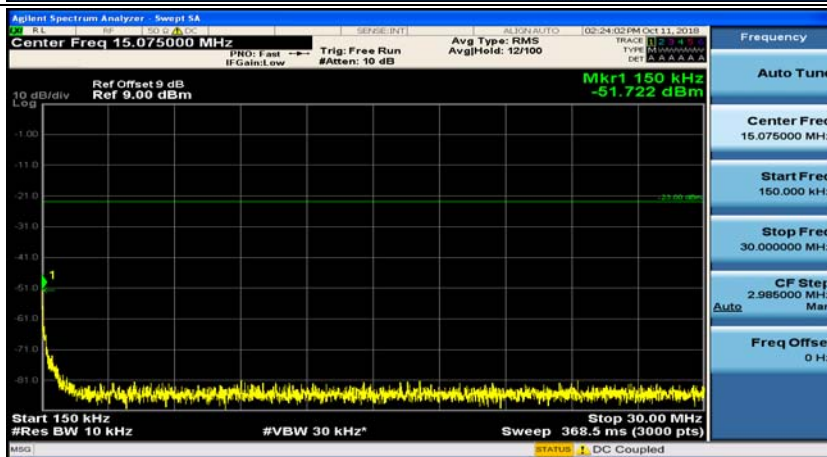
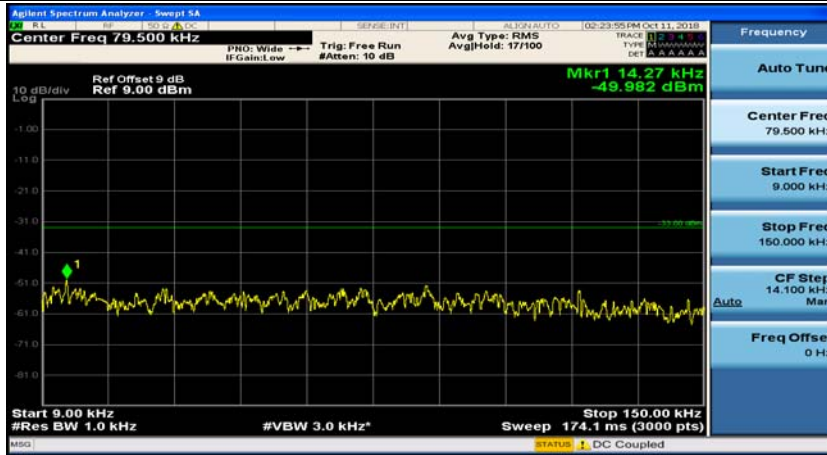
Channel Bandwidth: 10 MHz\_HCH\_QPSK\_1RB#24



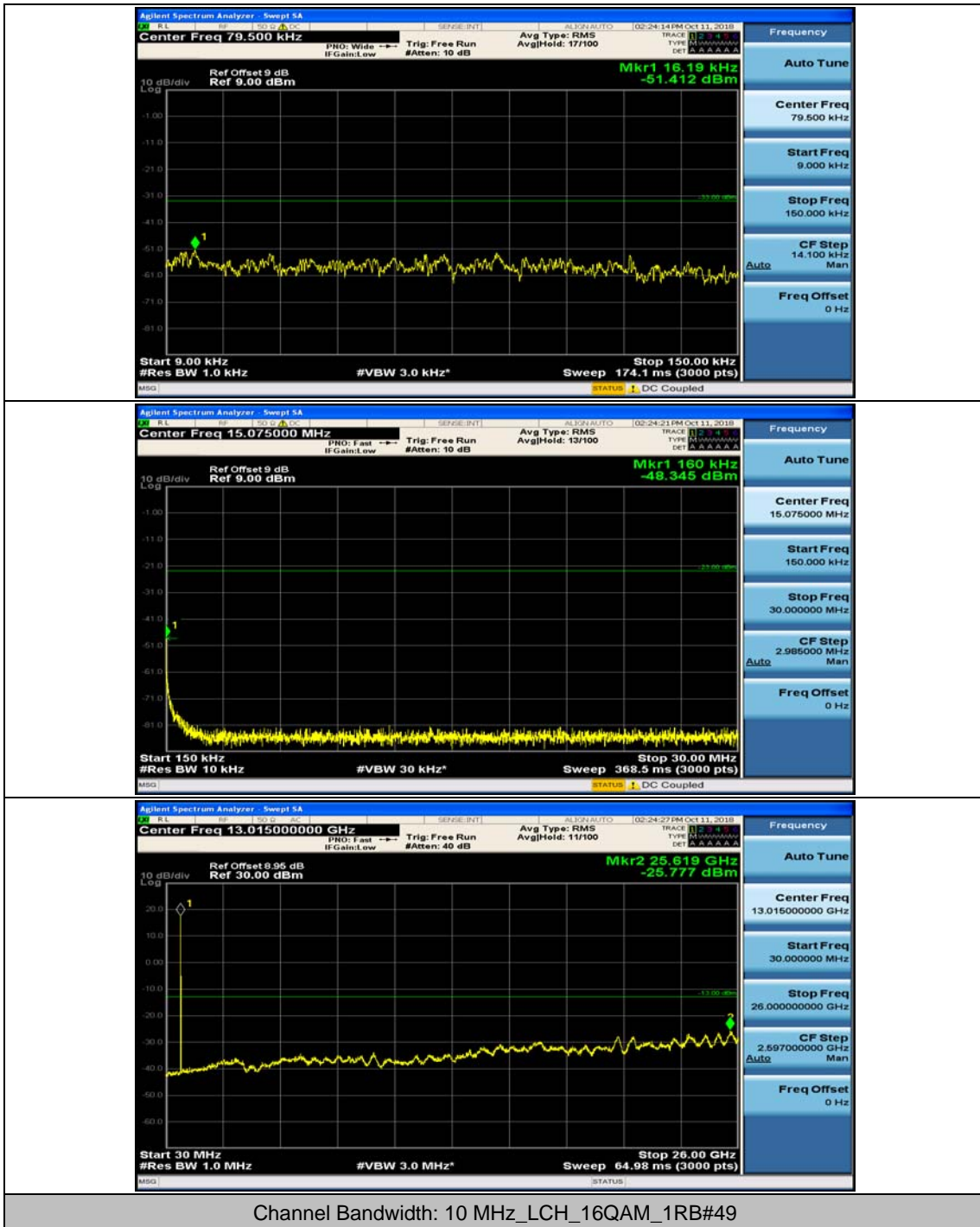


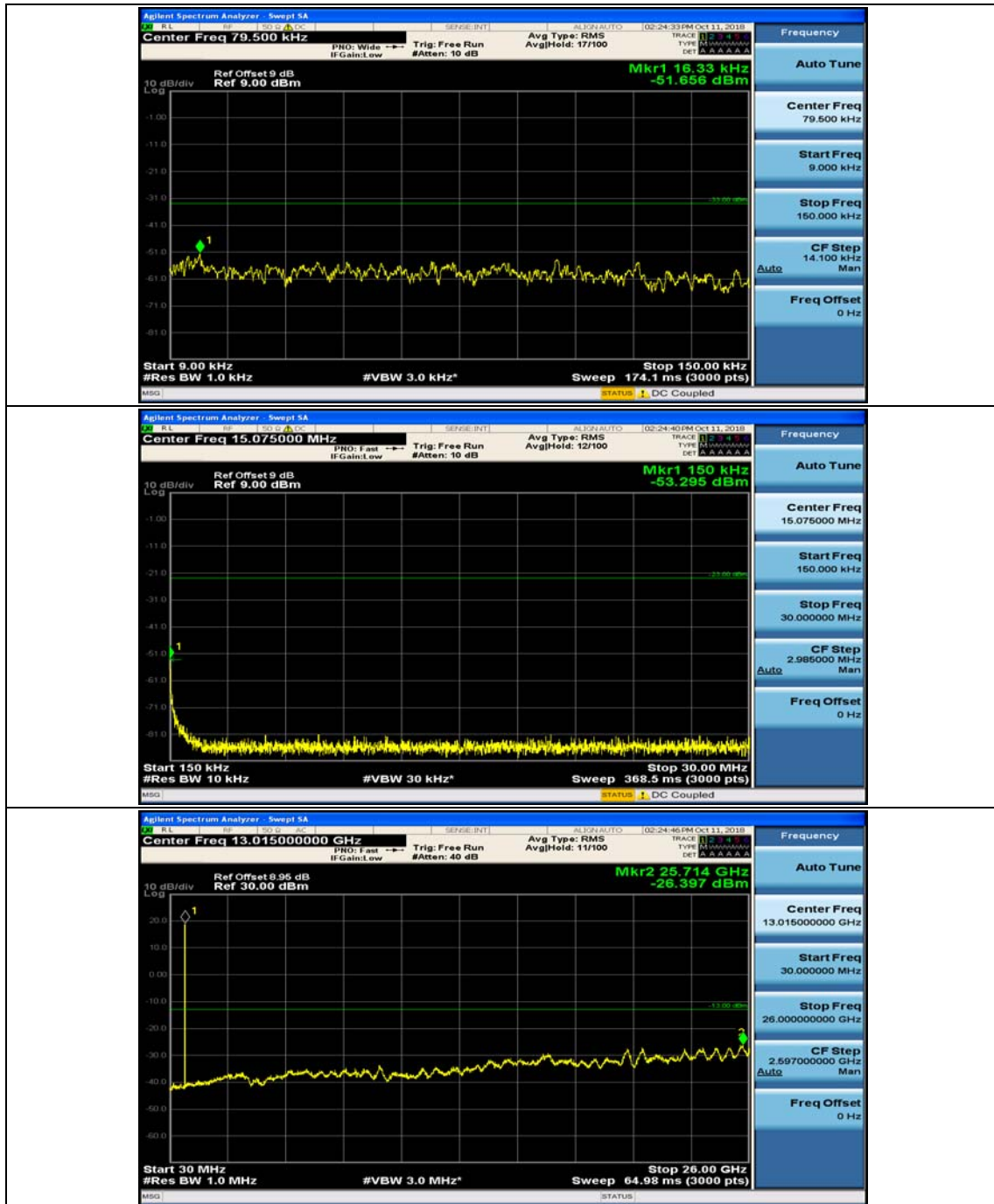


Channel Bandwidth: 10 MHz\_LCH\_16QAM\_1RB#0



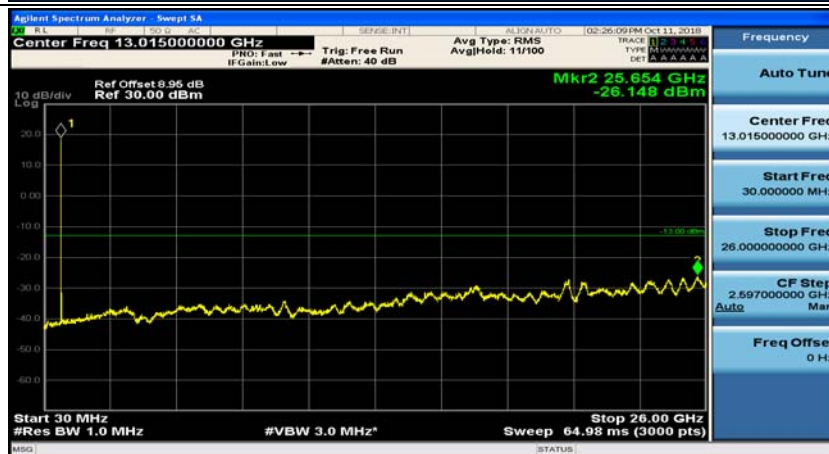
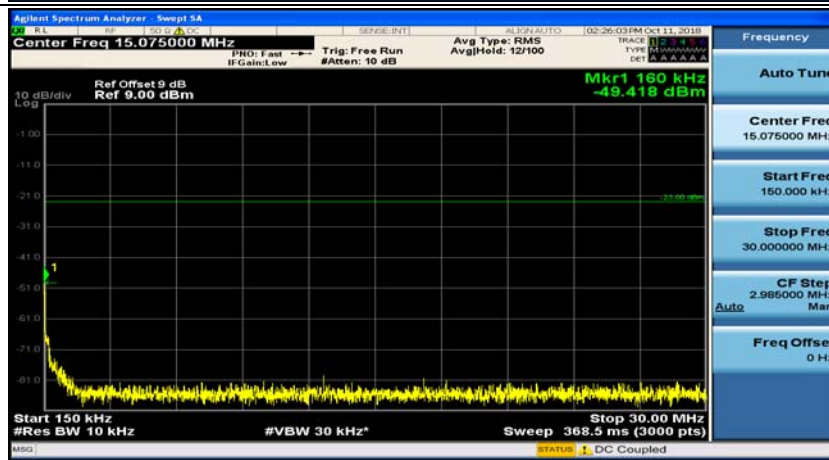
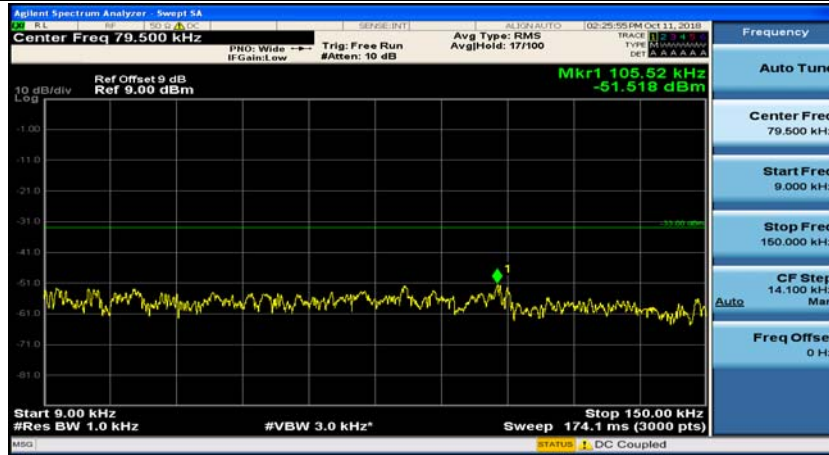
Channel Bandwidth: 10 MHz\_LCH\_16QAM\_1RB#24



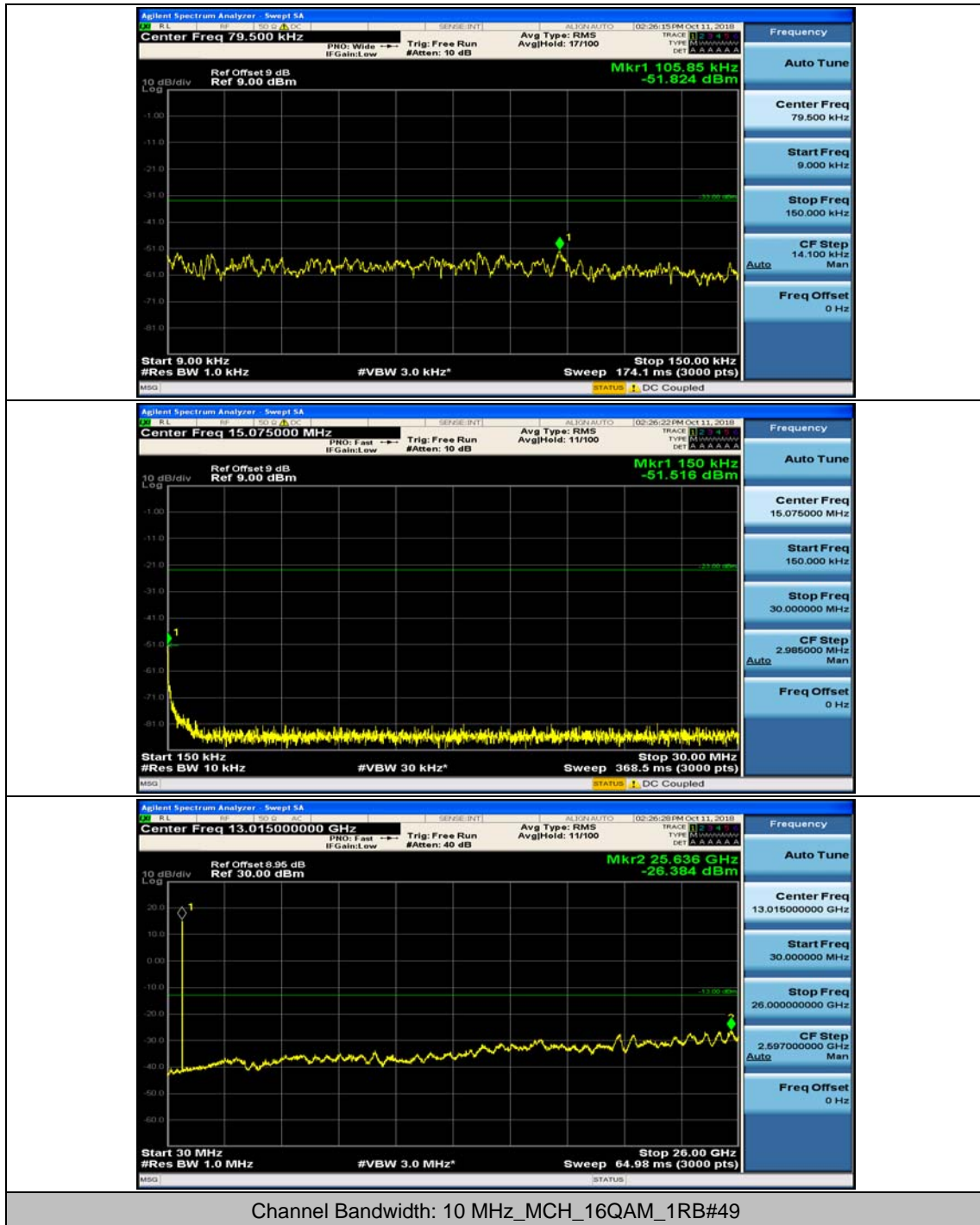


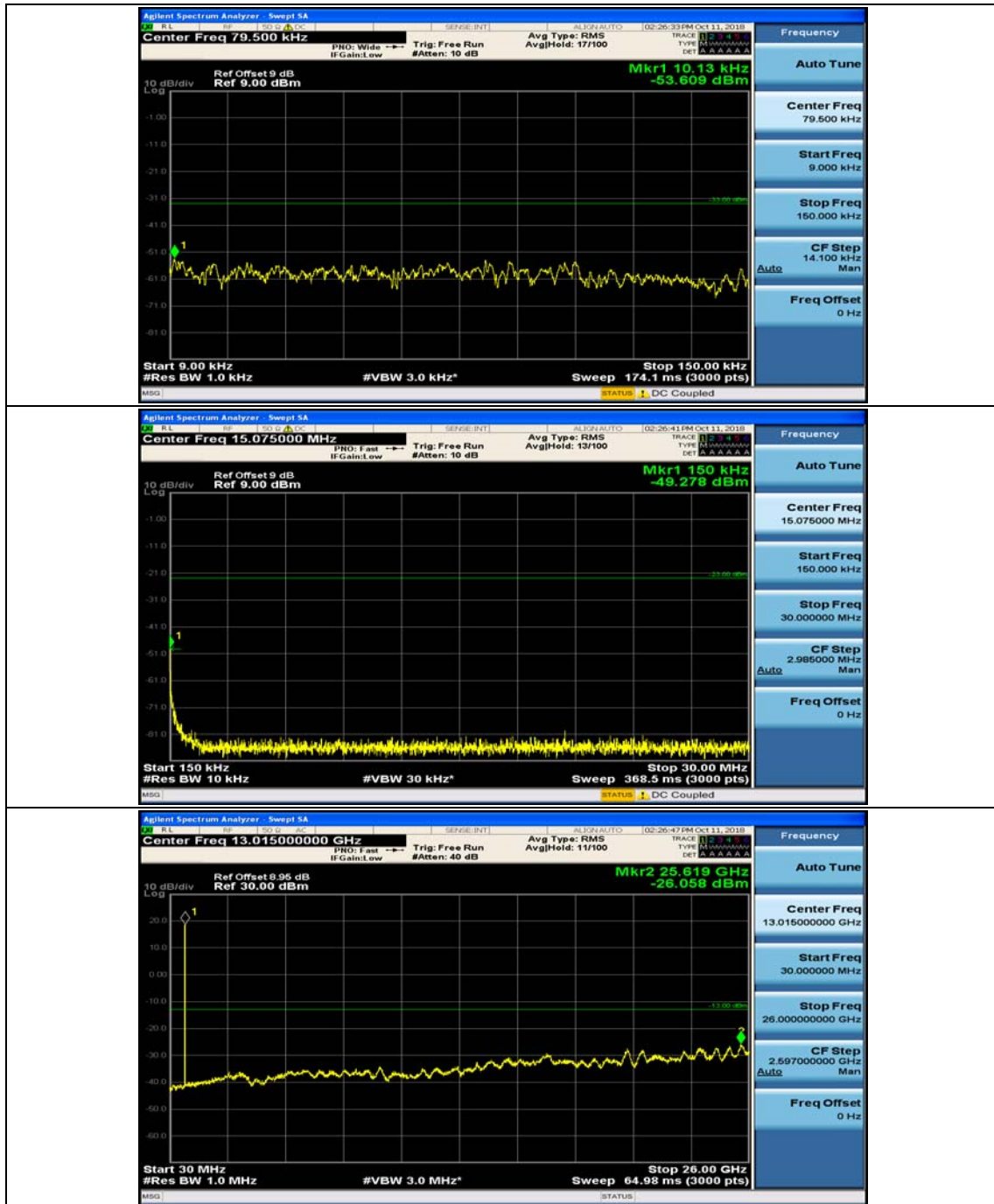


Channel Bandwidth: 10 MHz\_MCH\_16QAM\_1RB#0

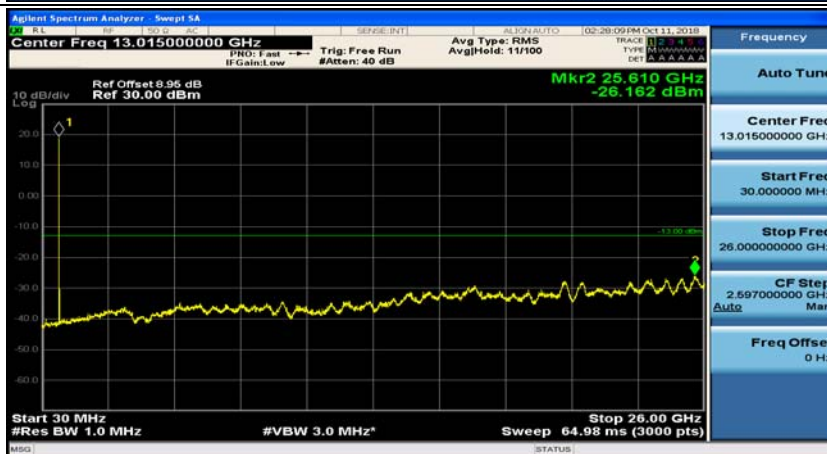
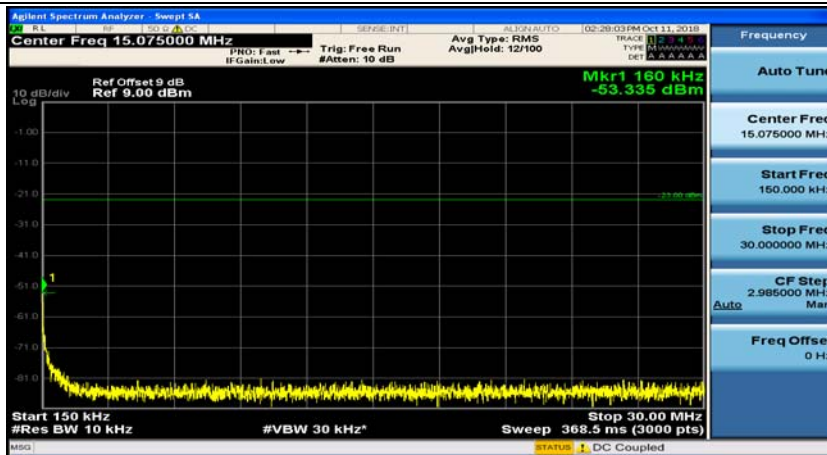
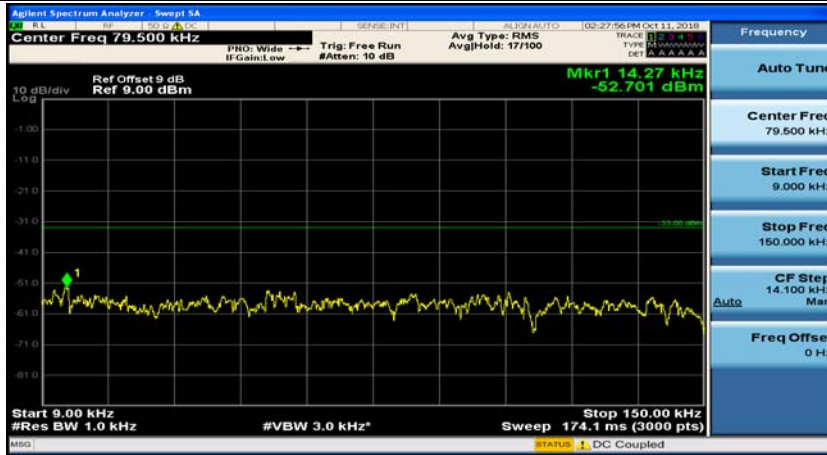


Channel Bandwidth: 10 MHz\_MCH\_16QAM\_1RB#24

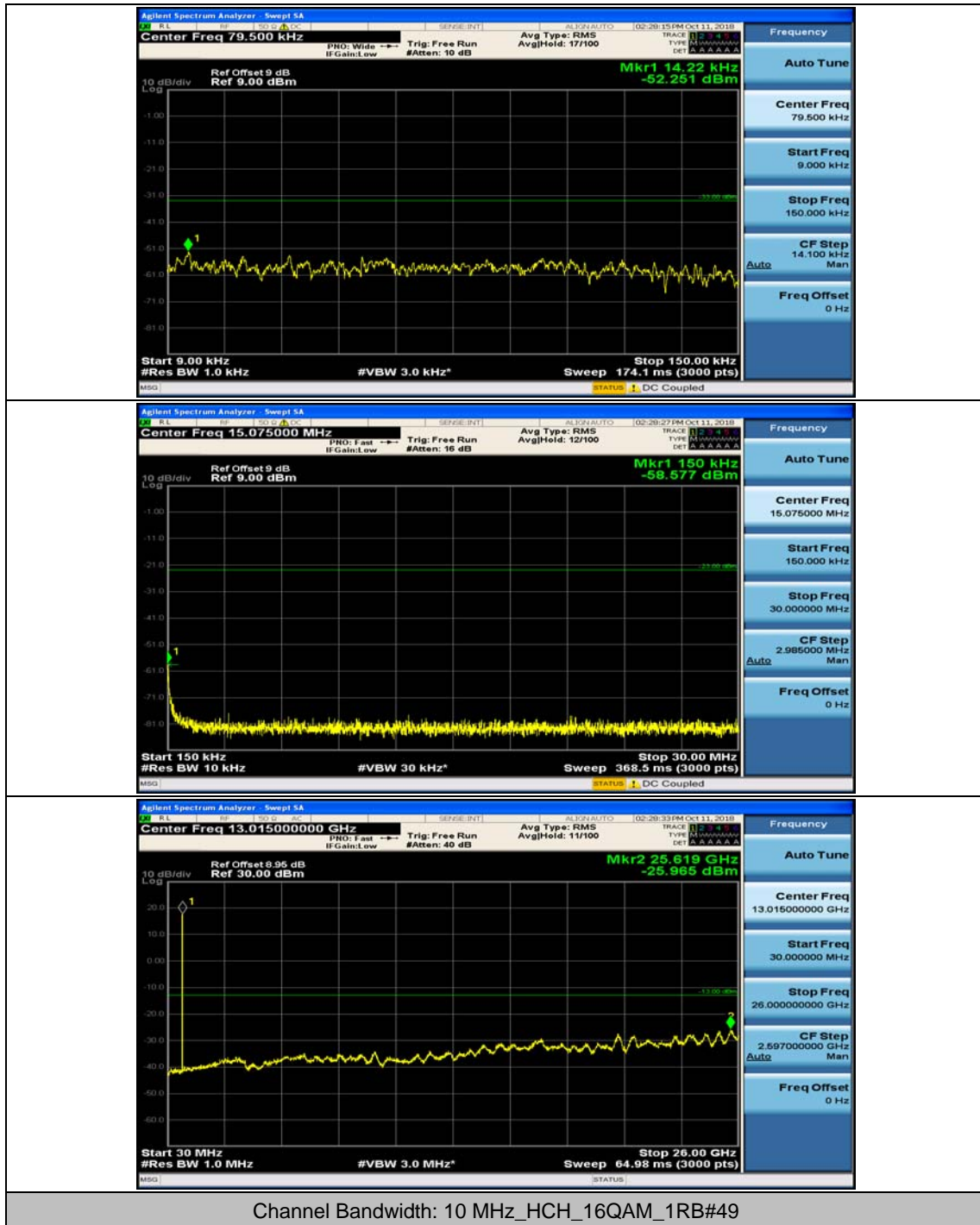




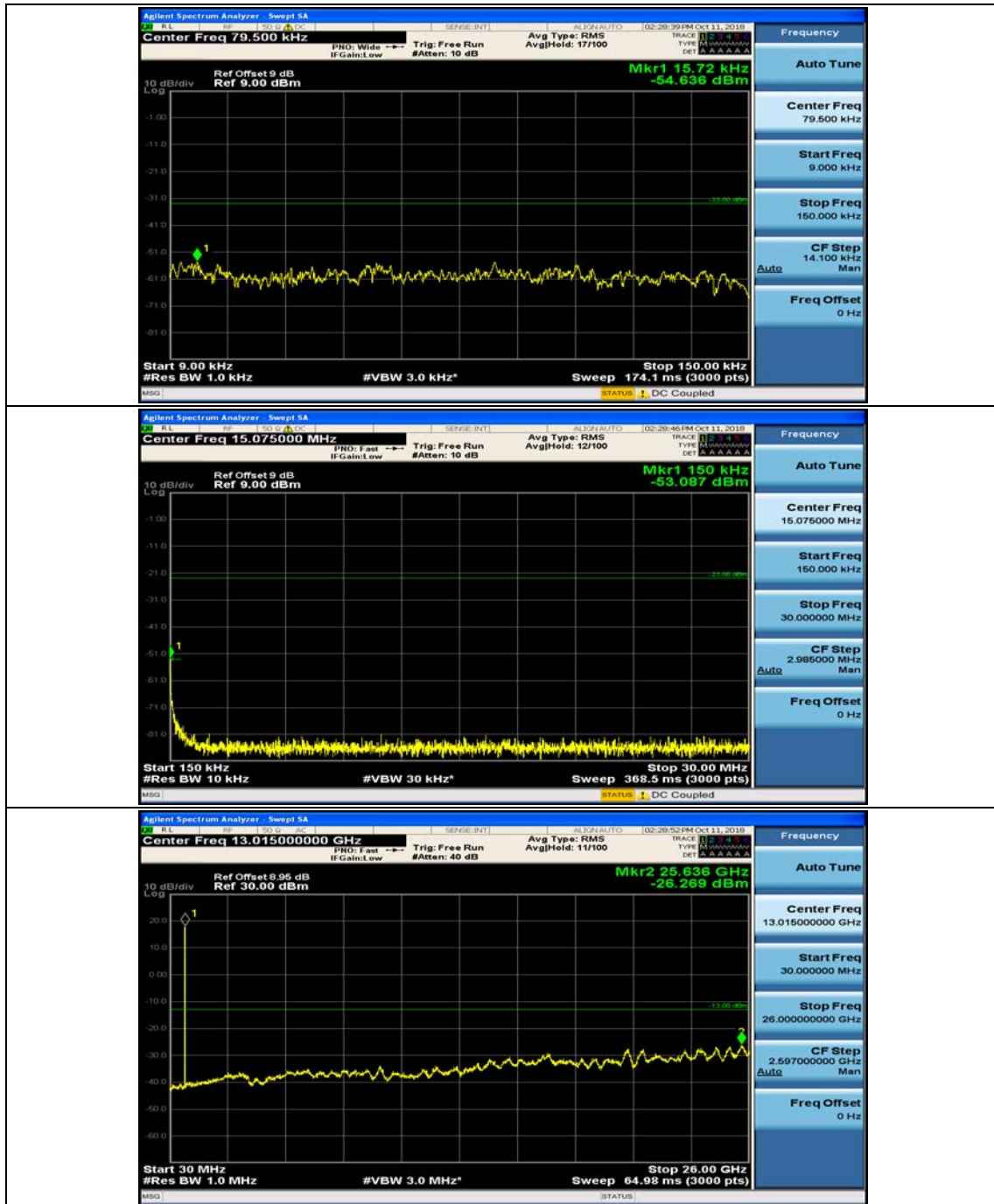
Channel Bandwidth: 10 MHz\_HCH\_16QAM\_1RB#0



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







## Appendix F: Frequency Stability

### Test Result

#### Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	-0.21	-0.000297	± 2.5	PASS
		VN	TN	2.44	0.003454	± 2.5	PASS
		VH	TN	2.1	0.002972	± 2.5	PASS
	MCH	VL	TN	1.83	0.002577	± 2.5	PASS
		VN	TN	3.55	0.005000	± 2.5	PASS
		VH	TN	4.29	0.006042	± 2.5	PASS
	HCH	VL	TN	4.85	0.006797	± 2.5	PASS
		VN	TN	4.79	0.006713	± 2.5	PASS
		VH	TN	1.95	0.002733	± 2.5	PASS
16QAM	LCH	VL	TN	3.28	0.004643	± 2.5	PASS
		VN	TN	3.12	0.004416	± 2.5	PASS
		VH	TN	4.64	0.006568	± 2.5	PASS
	MCH	VL	TN	2.41	0.003394	± 2.5	PASS
		VN	TN	-0.69	-0.000972	± 2.5	PASS
		VH	TN	1.78	0.002507	± 2.5	PASS
	HCH	VL	TN	-0.95	-0.001331	± 2.5	PASS
		VN	TN	-0.96	-0.001345	± 2.5	PASS
		VH	TN	0.29	0.000406	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	0.4	0.000566	± 2.5	PASS
		VN	-20	1.63	0.002307	± 2.5	PASS
		VN	-10	-0.1	-0.000142	± 2.5	PASS
		VN	0	2.19	0.003100	± 2.5	PASS
		VN	10	2.98	0.004218	± 2.5	PASS
		VN	20	3.43	0.004855	± 2.5	PASS
		VN	30	0.09	0.000127	± 2.5	PASS
		VN	40	2.24	0.003171	± 2.5	PASS
	MCH	VN	-30	-1.8	-0.002535	± 2.5	PASS
		VN	-20	0.33	0.000465	± 2.5	PASS

		VN	-10	-1	-0.001408	± 2.5	PASS		
		VN	0	3.06	0.004310	± 2.5	PASS		
		VN	10	4.75	0.006690	± 2.5	PASS		
		VN	20	0.25	0.000352	± 2.5	PASS		
		VN	30	4.43	0.006239	± 2.5	PASS		
		VN	40	-1.63	-0.002296	± 2.5	PASS		
		VN	50	0.97	0.001366	± 2.5	PASS		
	HCH	VN	-30	-0.23	-0.000322	± 2.5	PASS		
		VN	-20	3.01	0.004219	± 2.5	PASS		
		VN	-10	-0.47	-0.000659	± 2.5	PASS		
		VN	0	2.51	0.003518	± 2.5	PASS		
		VN	10	2.03	0.002845	± 2.5	PASS		
		VN	20	-0.7	-0.000981	± 2.5	PASS		
		VN	30	3.02	0.004233	± 2.5	PASS		
		VN	40	0.9	0.001261	± 2.5	PASS		
		VN	50	2.52	0.003532	± 2.5	PASS		
		16QAM	LCH	VN	-30	3.88	0.005492	± 2.5	PASS
				VN	-20	4.64	0.006568	± 2.5	PASS
VN	-10			3.28	0.004643	± 2.5	PASS		
VN	0			2.36	0.003340	± 2.5	PASS		
VN	10			-1.93	-0.002732	± 2.5	PASS		
VN	20			0.25	0.000354	± 2.5	PASS		
VN	30			4.27	0.006044	± 2.5	PASS		
VN	40			4.54	0.006426	± 2.5	PASS		
VN	50			-0.15	-0.000212	± 2.5	PASS		
MCH	VN		-30	-0.12	-0.000168	± 2.5	PASS		
	VN		-20	4.79	0.006713	± 2.5	PASS		
	VN		-10	-0.11	-0.000154	± 2.5	PASS		
	VN		0	0.48	0.000673	± 2.5	PASS		
	VN		10	1.4	0.001962	± 2.5	PASS		
	VN		20	-1.42	-0.001990	± 2.5	PASS		
	VN		30	3.1	0.004345	± 2.5	PASS		
	VN		40	3.22	0.004513	± 2.5	PASS		
	VN		50	3.62	0.005074	± 2.5	PASS		
HCH	VN		-30	4.26	0.005971	± 2.5	PASS		
	VN		-20	2.02	0.002831	± 2.5	PASS		
	VN		-10	0.68	0.000953	± 2.5	PASS		
	VN		0	1.93	0.002705	± 2.5	PASS		
	VN		10	2.28	0.003196	± 2.5	PASS		
	VN		20	-1.95	-0.002733	± 2.5	PASS		
	VN		30	4.27	0.005985	± 2.5	PASS		

		VN	40	-0.68	-0.000953	± 2.5	PASS
		VN	50	-0.94	-0.001317	± 2.5	PASS

**Channel Bandwidth: 10 MHz**

Channel Bandwidth: 10 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	4.48	0.006319	± 2.5	PASS
		VN	TN	-1.84	-0.002595	± 2.5	PASS
		VH	TN	-1.04	-0.001467	± 2.5	PASS
	MCH	VL	TN	0.68	0.000958	± 2.5	PASS
		VN	TN	0.39	0.000549	± 2.5	PASS
		VH	TN	0.79	0.001113	± 2.5	PASS
	HCH	VL	TN	1.75	0.002461	± 2.5	PASS
		VN	TN	3.76	0.005288	± 2.5	PASS
		VH	TN	4.7	0.006610	± 2.5	PASS
16QAM	LCH	VL	TN	-1.29	-0.001819	± 2.5	PASS
		VN	TN	-1.35	-0.001904	± 2.5	PASS
		VH	TN	-0.84	-0.001185	± 2.5	PASS
	MCH	VL	TN	-0.14	-0.000197	± 2.5	PASS
		VN	TN	1.63	0.002296	± 2.5	PASS
		VH	TN	-0.41	-0.000577	± 2.5	PASS
	HCH	VL	TN	1.6	0.002250	± 2.5	PASS
		VN	TN	1.62	0.002278	± 2.5	PASS
		VH	TN	1.98	0.002785	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
16QAM	LCH	VN	-30	1.13	0.001594	± 2.5	PASS
		VN	-20	3.39	0.004781	± 2.5	PASS
		VN	-10	4.38	0.006178	± 2.5	PASS
		VN	0	1.05	0.001481	± 2.5	PASS
		VN	10	-1.65	-0.002327	± 2.5	PASS
		VN	20	-0.45	-0.000635	± 2.5	PASS
		VN	30	1.34	0.001890	± 2.5	PASS
		VN	40	1.32	0.001862	± 2.5	PASS
		VN	50	2.19	0.003089	± 2.5	PASS
	MCH	VN	-30	2.11	0.002972	± 2.5	PASS
		VN	-20	3.08	0.004338	± 2.5	PASS
		VN	-10	4.62	0.006507	± 2.5	PASS
		VN	0	4.75	0.006690	± 2.5	PASS

		VN	10	1.34	0.001887	± 2.5	PASS
		VN	20	-0.55	-0.000775	± 2.5	PASS
		VN	30	4.76	0.006704	± 2.5	PASS
		VN	40	1.69	0.002380	± 2.5	PASS
		VN	50	4.13	0.005817	± 2.5	PASS
	HCH	VN	-30	-1.76	-0.002475	± 2.5	PASS
		VN	-20	-0.15	-0.000211	± 2.5	PASS
		VN	-10	3.74	0.005260	± 2.5	PASS
		VN	0	-1.95	-0.002743	± 2.5	PASS
		VN	10	-0.14	-0.000197	± 2.5	PASS
		VN	20	-0.61	-0.000858	± 2.5	PASS
		VN	30	0.24	0.000338	± 2.5	PASS
		VN	40	2.86	0.004023	± 2.5	PASS
		VN	50	2.82	0.003966	± 2.5	PASS
		QPSK	LCH	VN	-30	3.19	0.004493
VN	-20			-1.38	-0.001944	± 2.5	PASS
VN	-10			1.62	0.002282	± 2.5	PASS
VN	0			-0.39	-0.000549	± 2.5	PASS
VN	10			0.57	0.000803	± 2.5	PASS
VN	20			3.17	0.004465	± 2.5	PASS
VN	30			2.42	0.003408	± 2.5	PASS
VN	40			3.48	0.004901	± 2.5	PASS
VN	50			-0.89	-0.001254	± 2.5	PASS
MCH	VN		-30	-0.86	-0.001210	± 2.5	PASS
	VN		-20	-0.28	-0.000394	± 2.5	PASS
	VN		-10	1.65	0.002321	± 2.5	PASS
	VN		0	2.67	0.003755	± 2.5	PASS
	VN		10	1.31	0.001842	± 2.5	PASS
	VN		20	0.24	0.000338	± 2.5	PASS
	VN		30	-0.94	-0.001322	± 2.5	PASS
	VN		40	-1.81	-0.002546	± 2.5	PASS
	VN		50	4.5	0.006329	± 2.5	PASS
HCH	VN		-30	3.28	0.004613	± 2.5	PASS
	VN		-20	0.27	0.000380	± 2.5	PASS
	VN		-10	0.37	0.000520	± 2.5	PASS
	VN		0	1.64	0.002307	± 2.5	PASS
	VN		10	0.35	0.000492	± 2.5	PASS
	VN		20	1.57	0.002208	± 2.5	PASS
	VN		30	4.52	0.006357	± 2.5	PASS
	VN		40	1.02	0.001435	± 2.5	PASS
	VN		50	4.01	0.005640	± 2.5	PASS