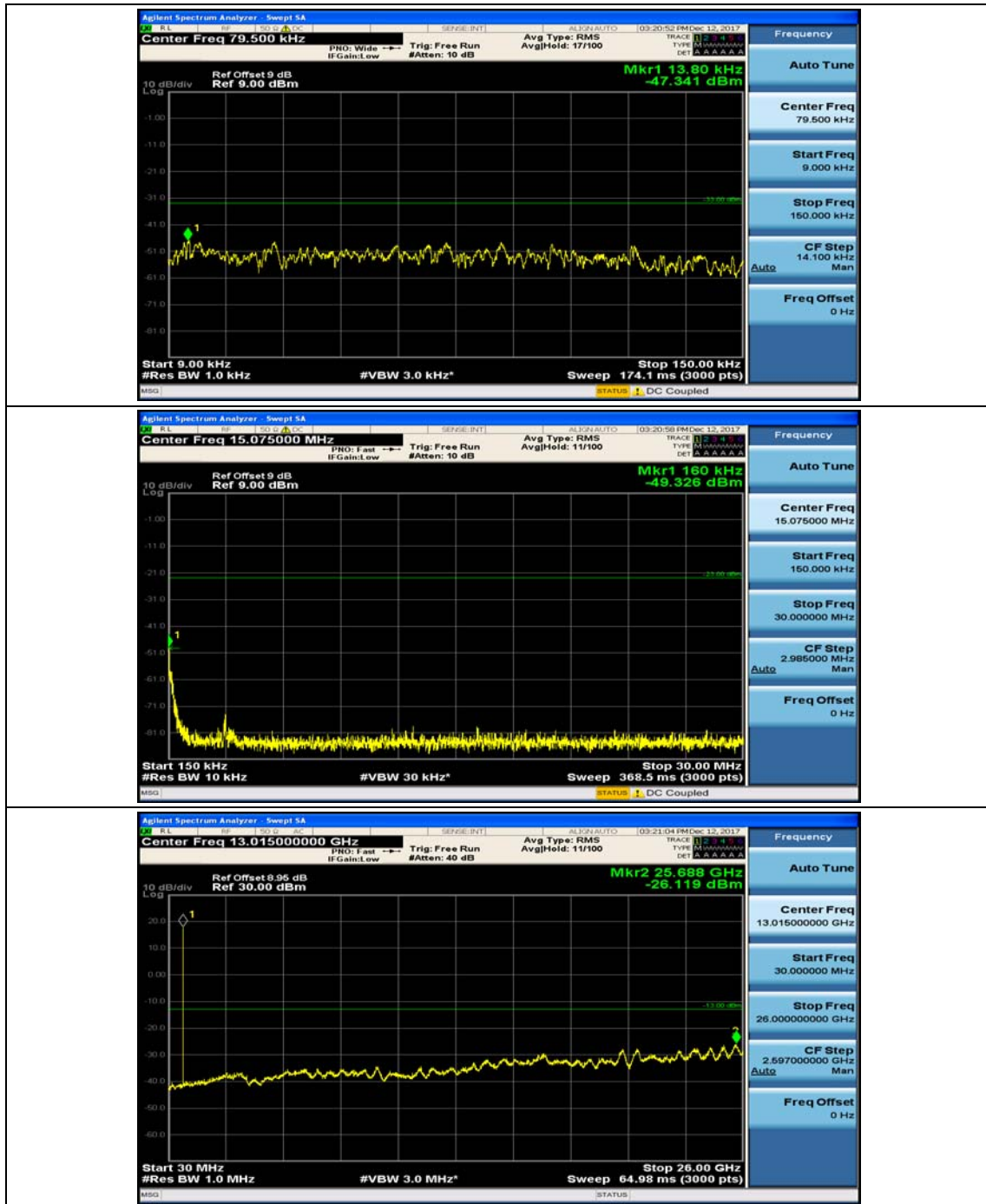
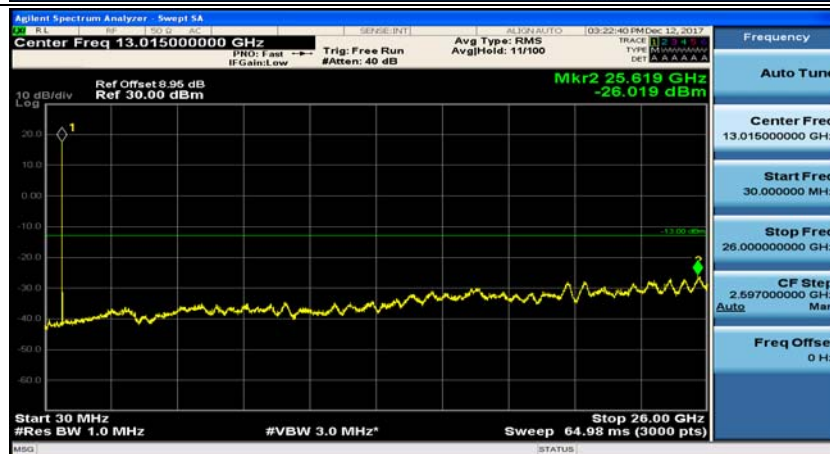
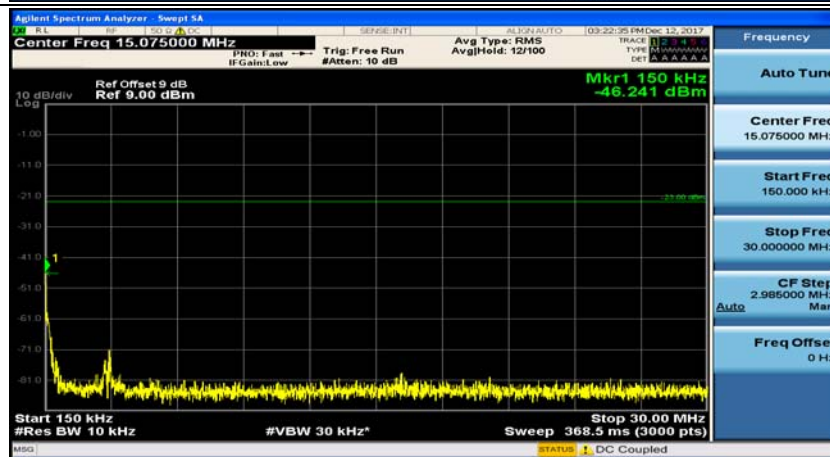
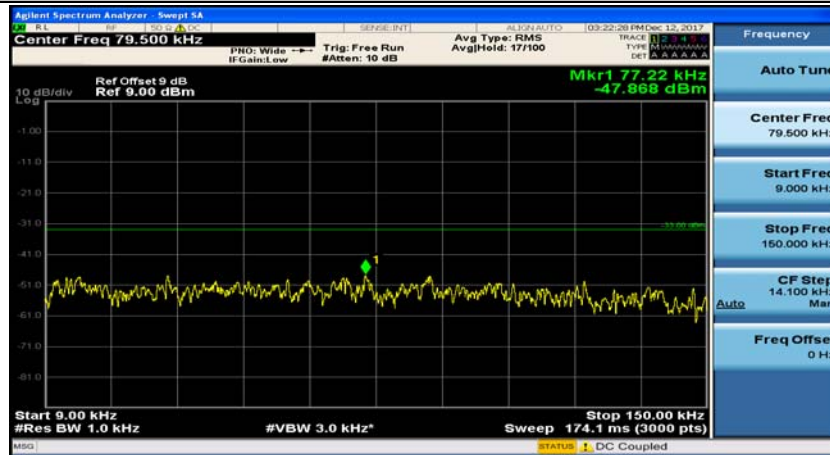
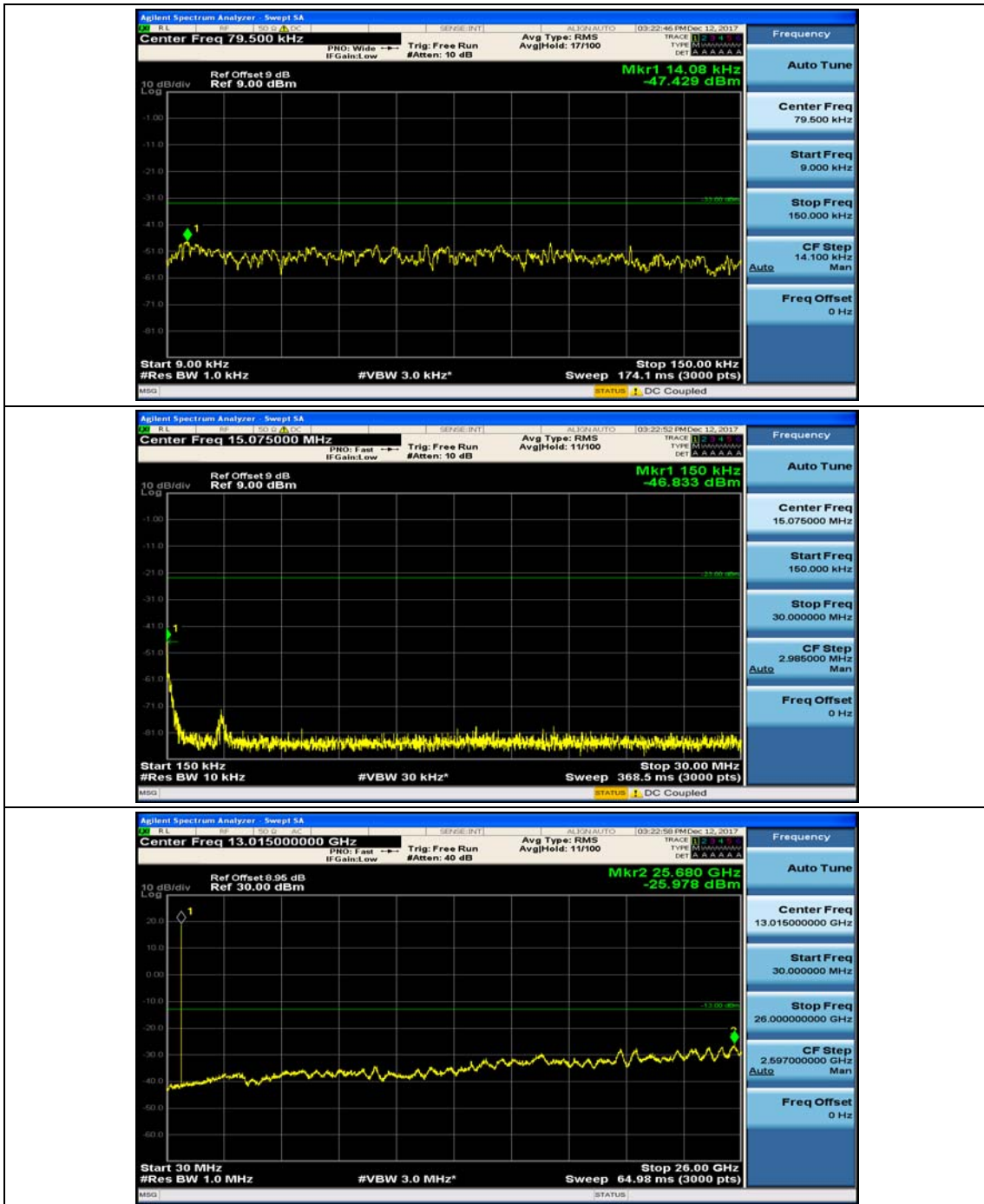




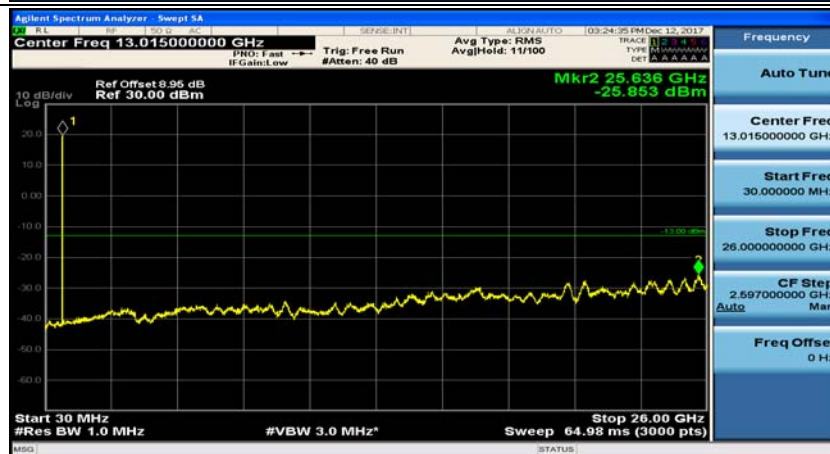
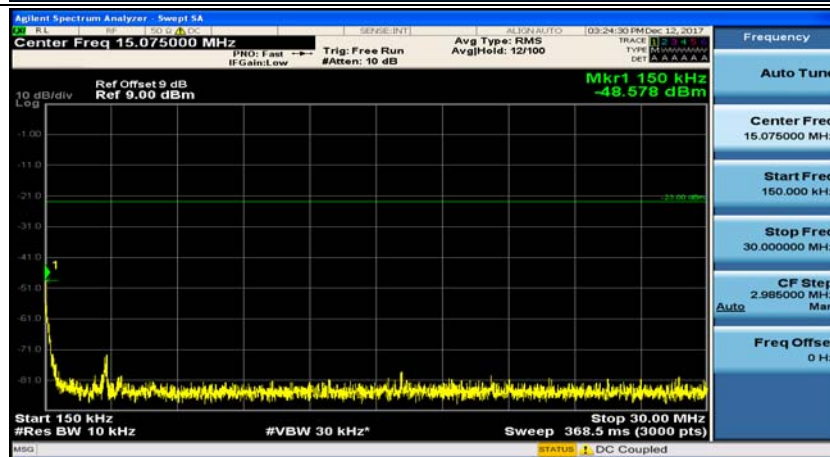
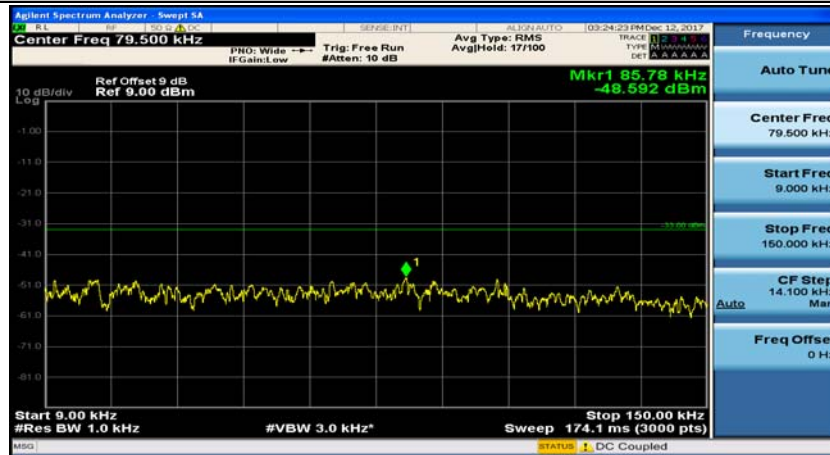
(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#0



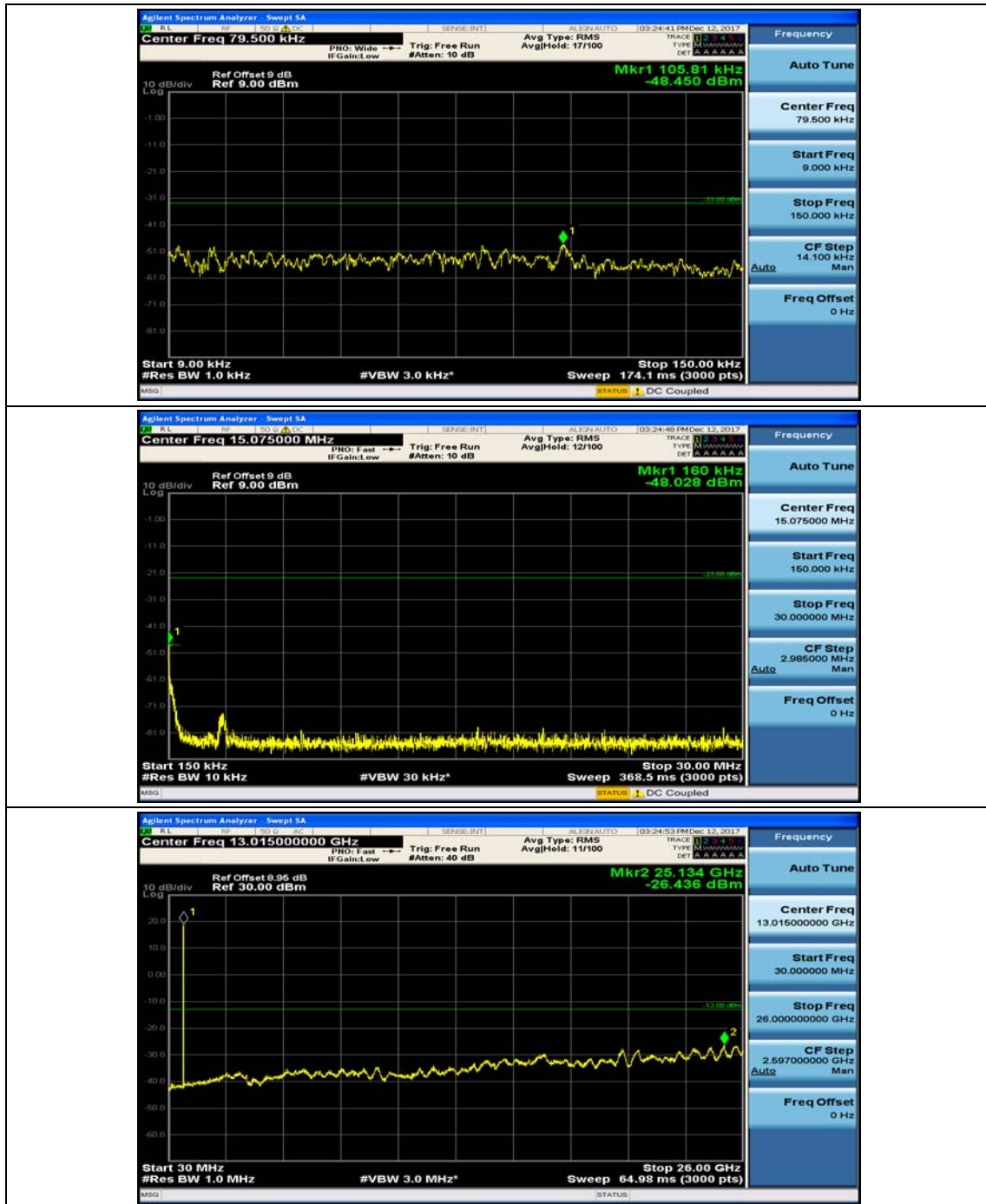
(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#7



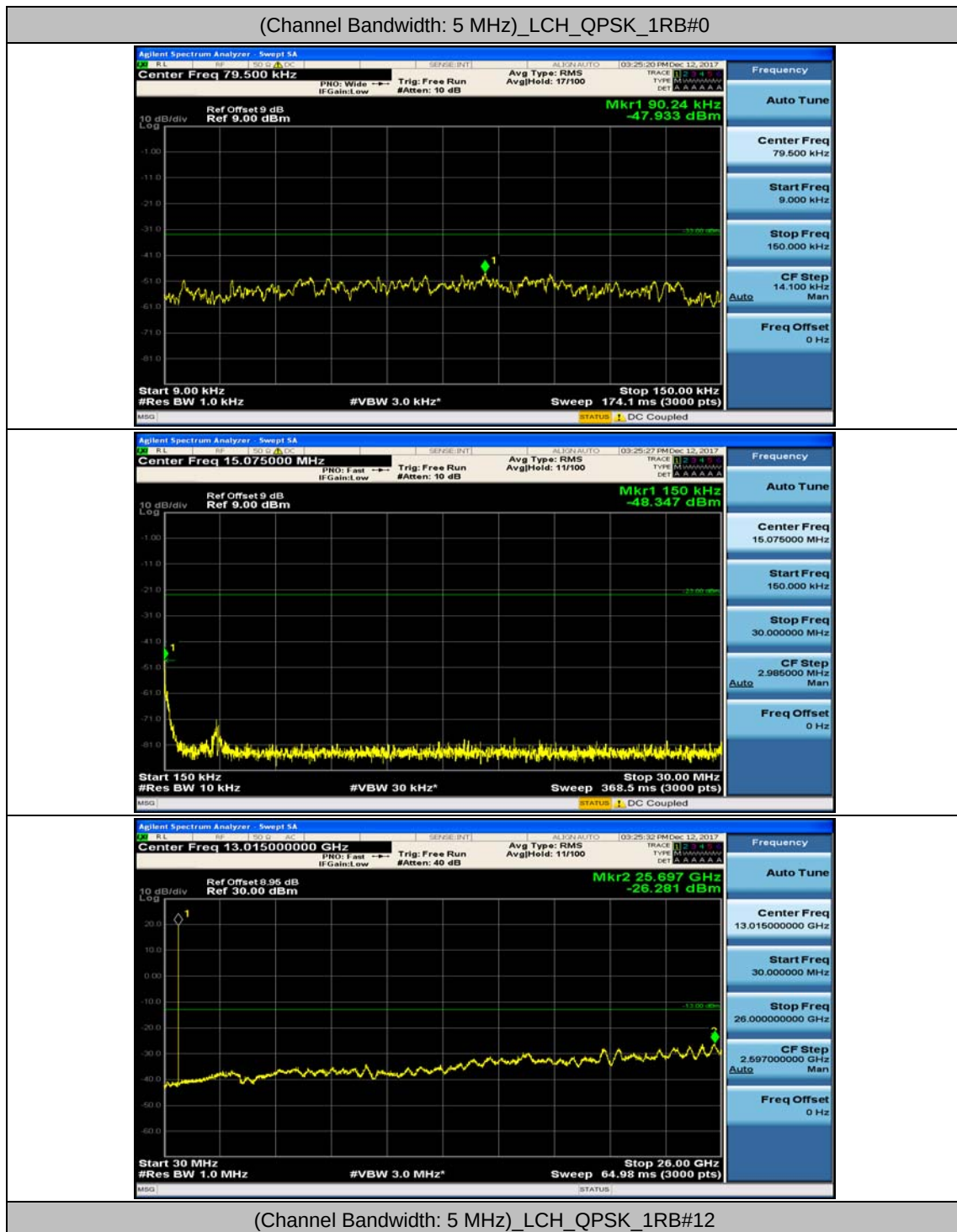
(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#0

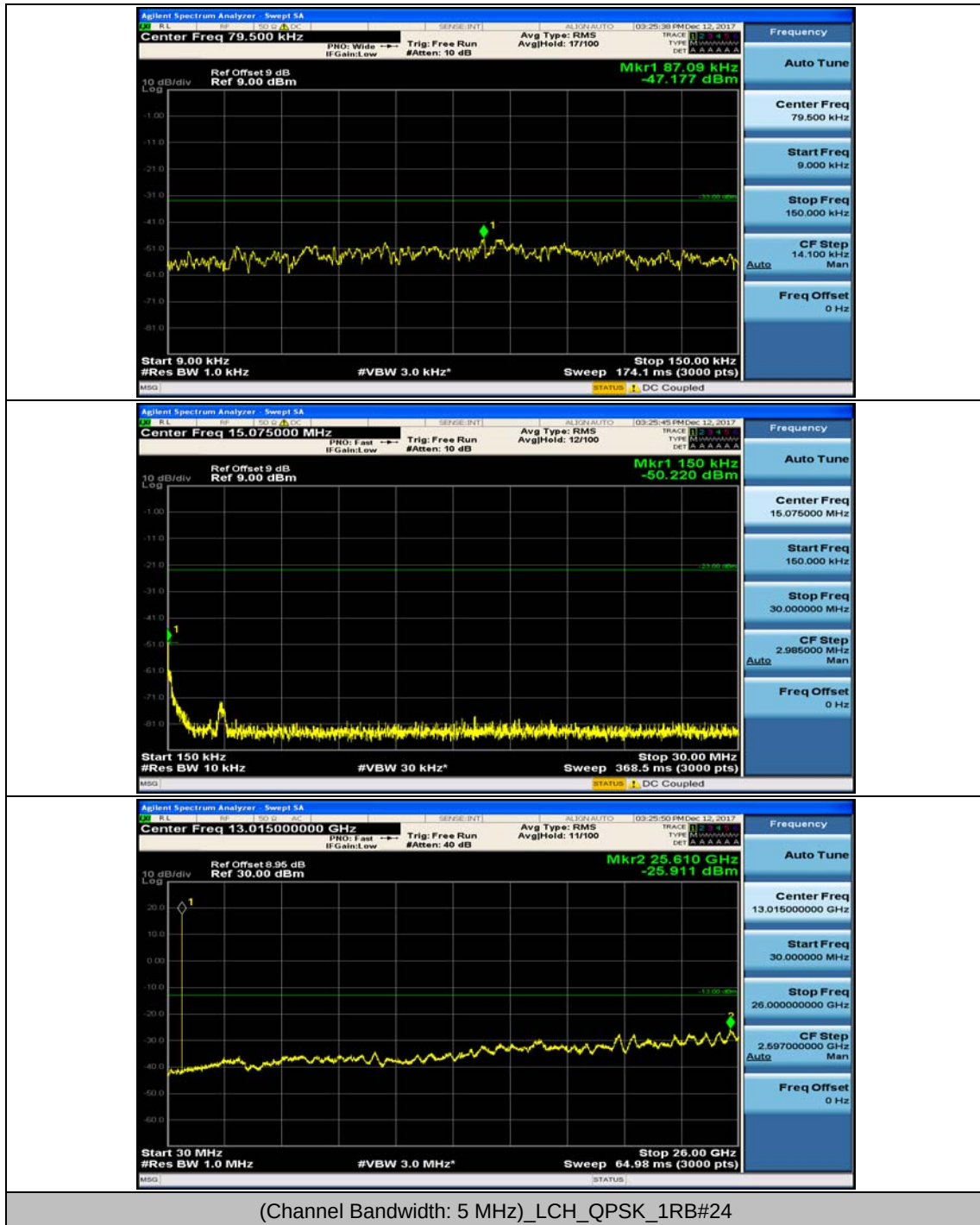


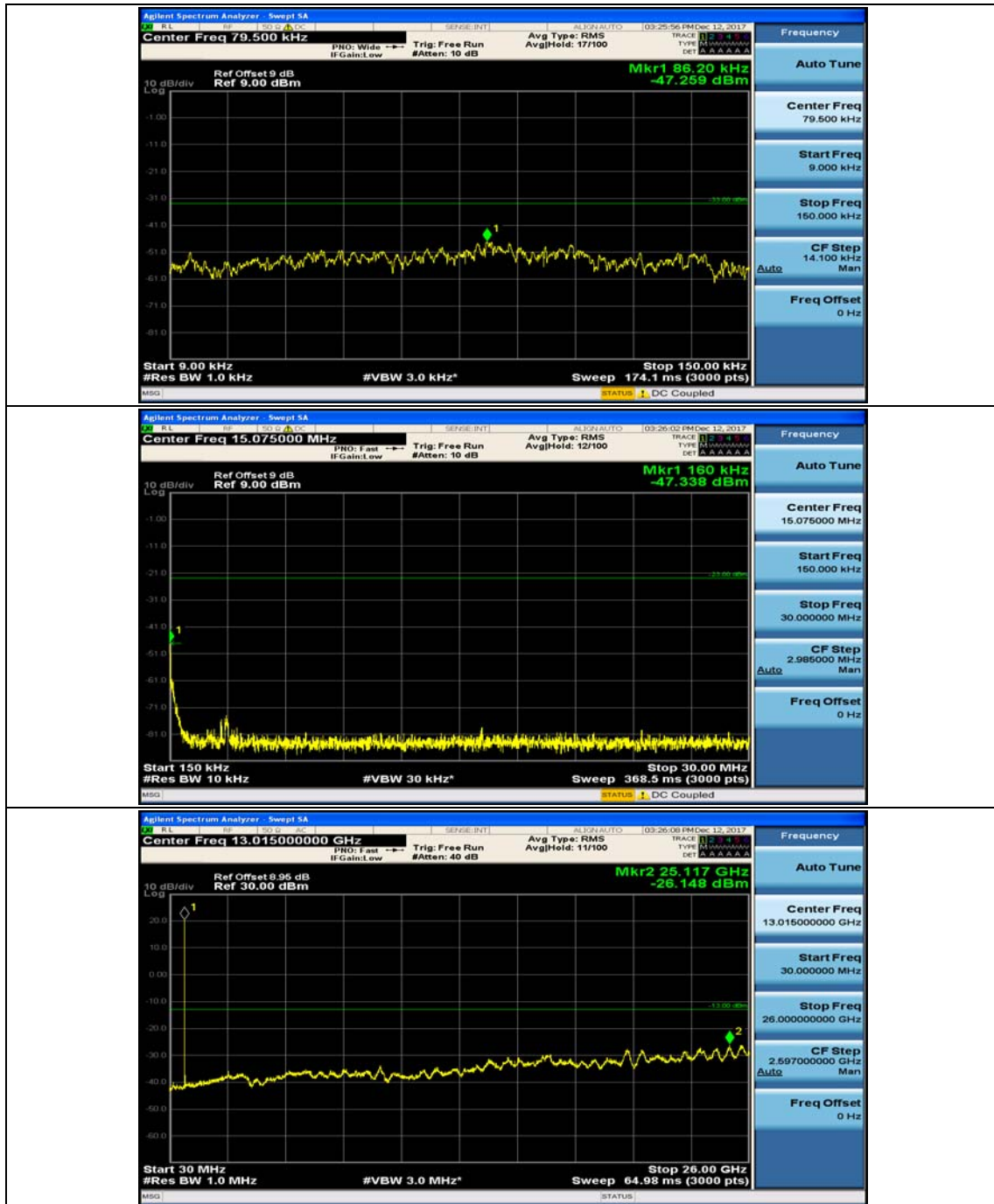
(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#7



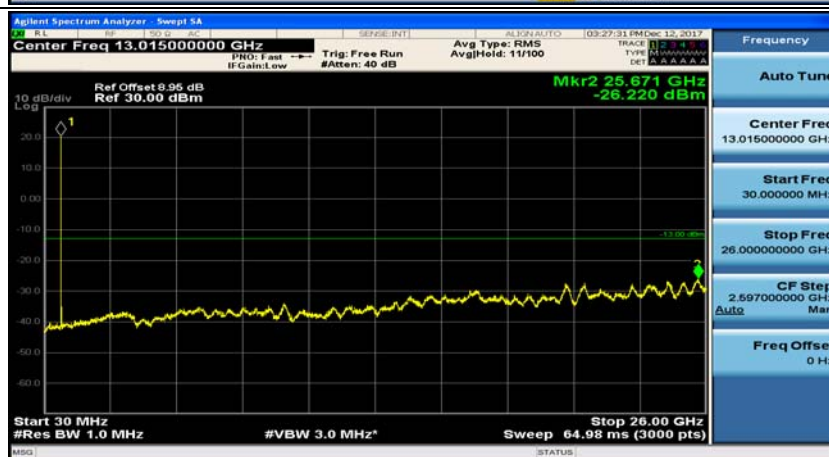
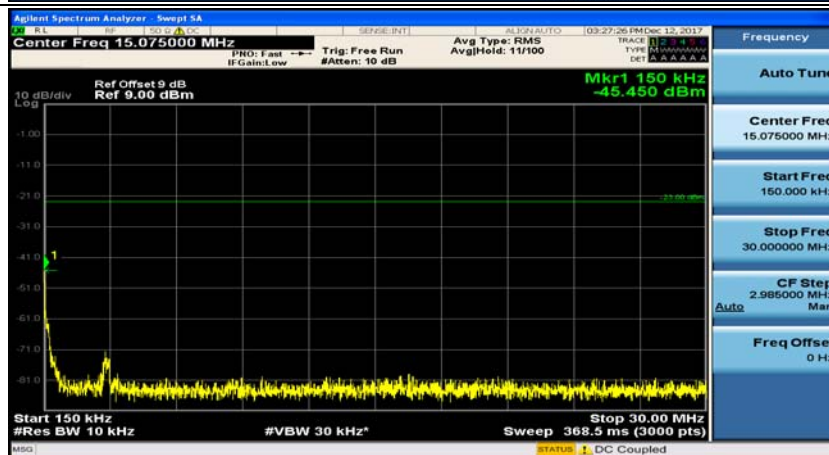
Channel Bandwidth: 5 MHz



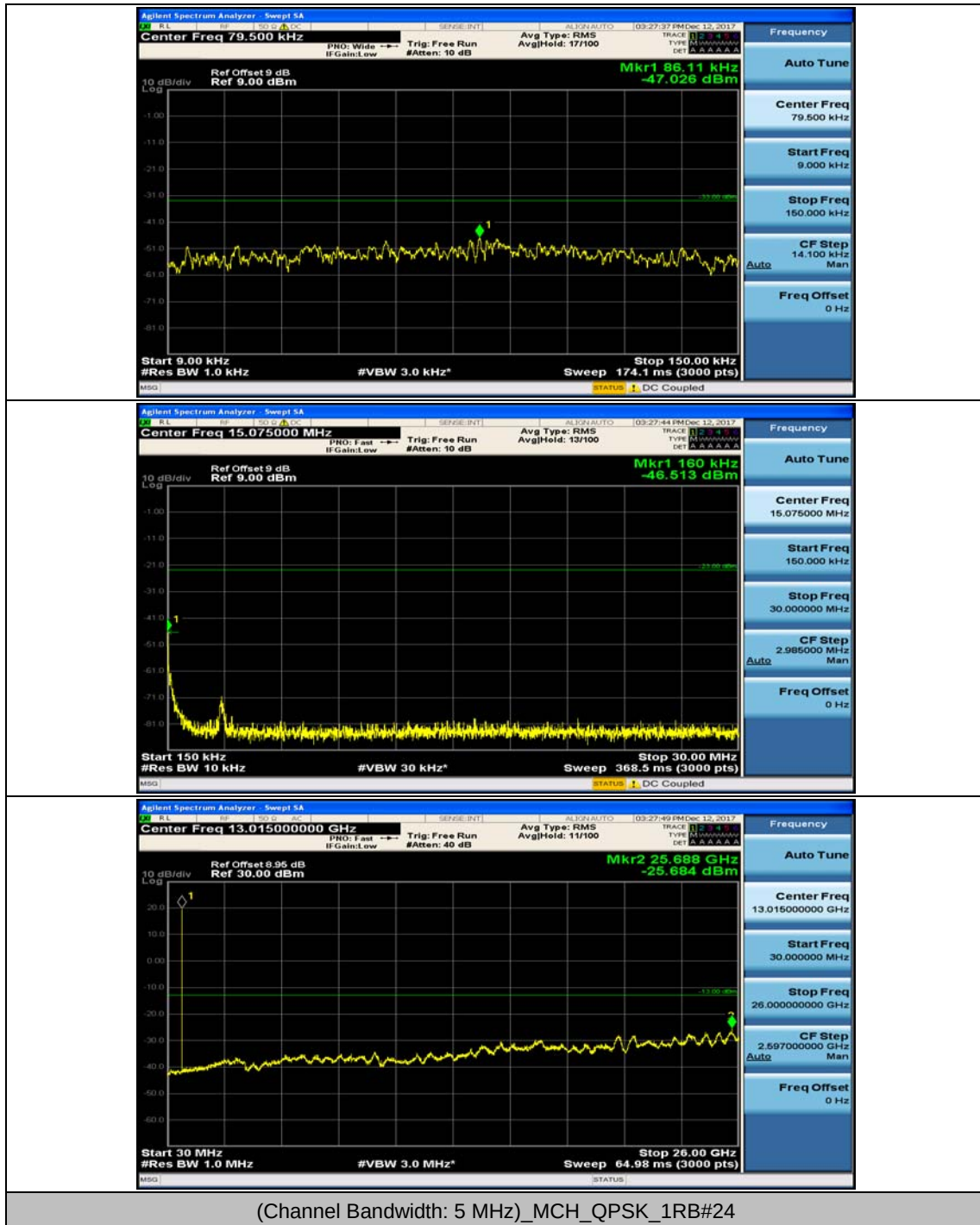


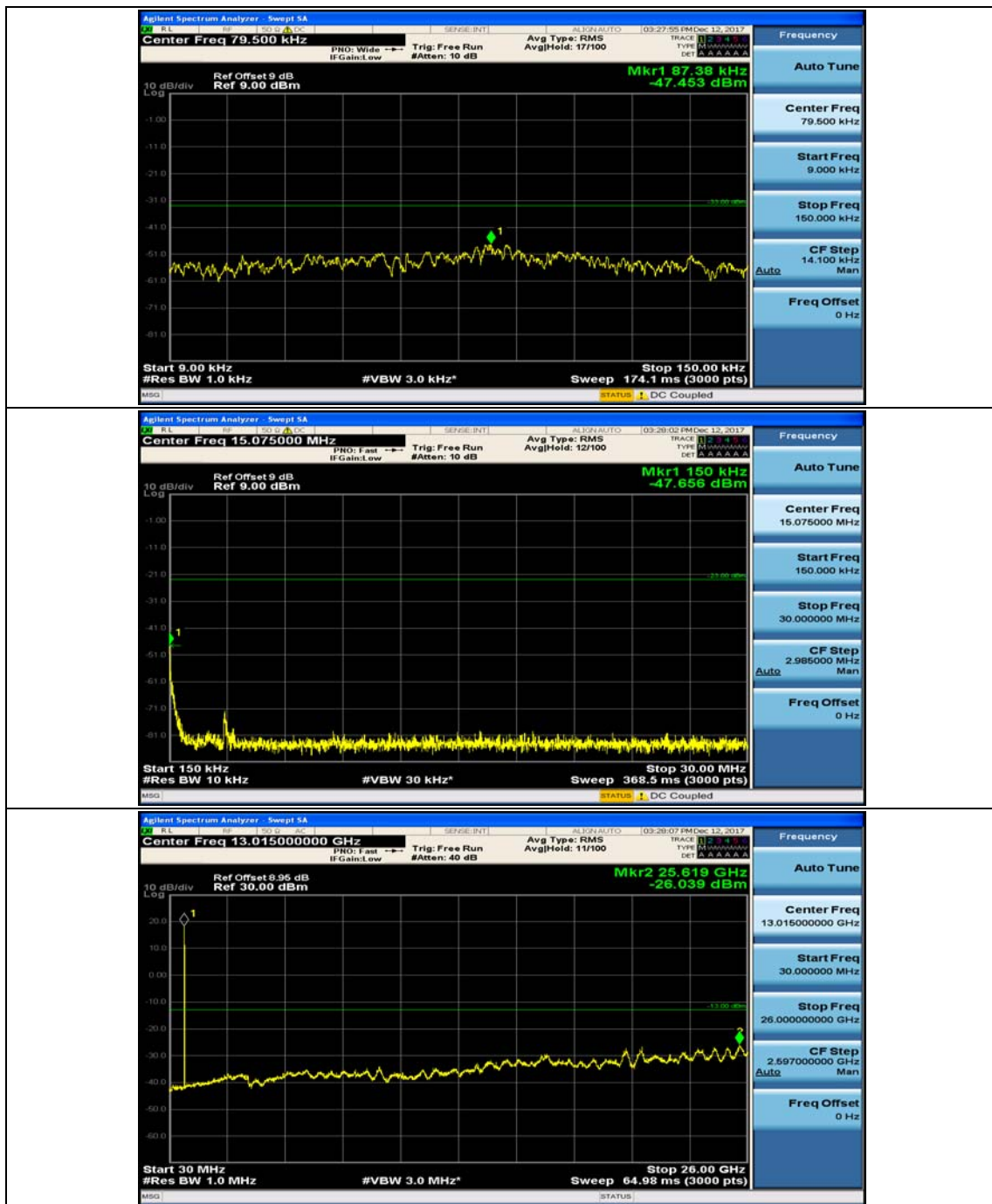


(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#0

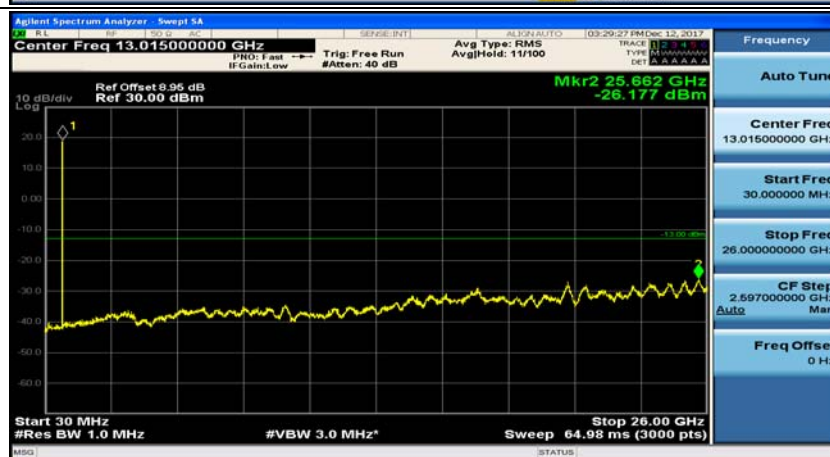
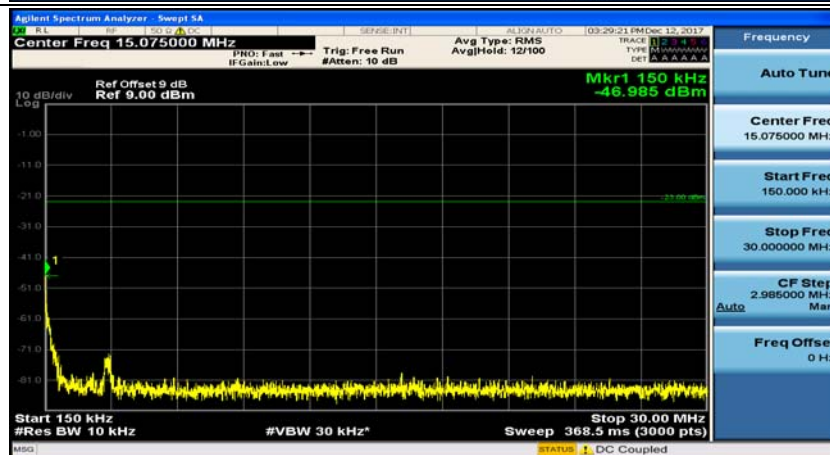
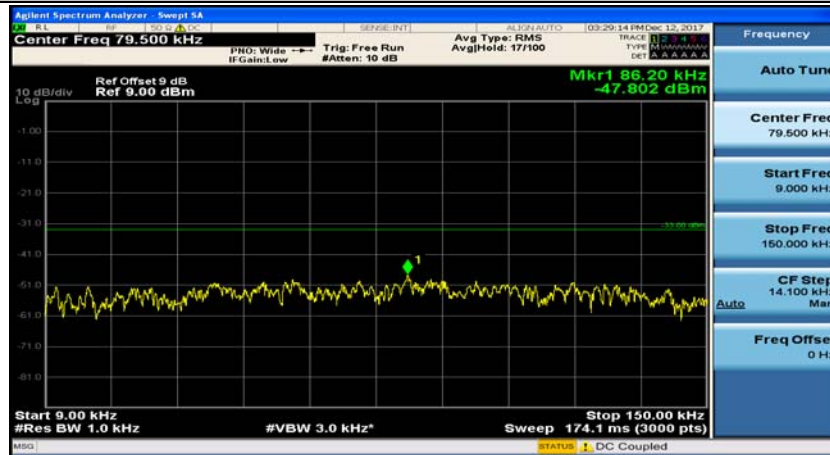


(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#12

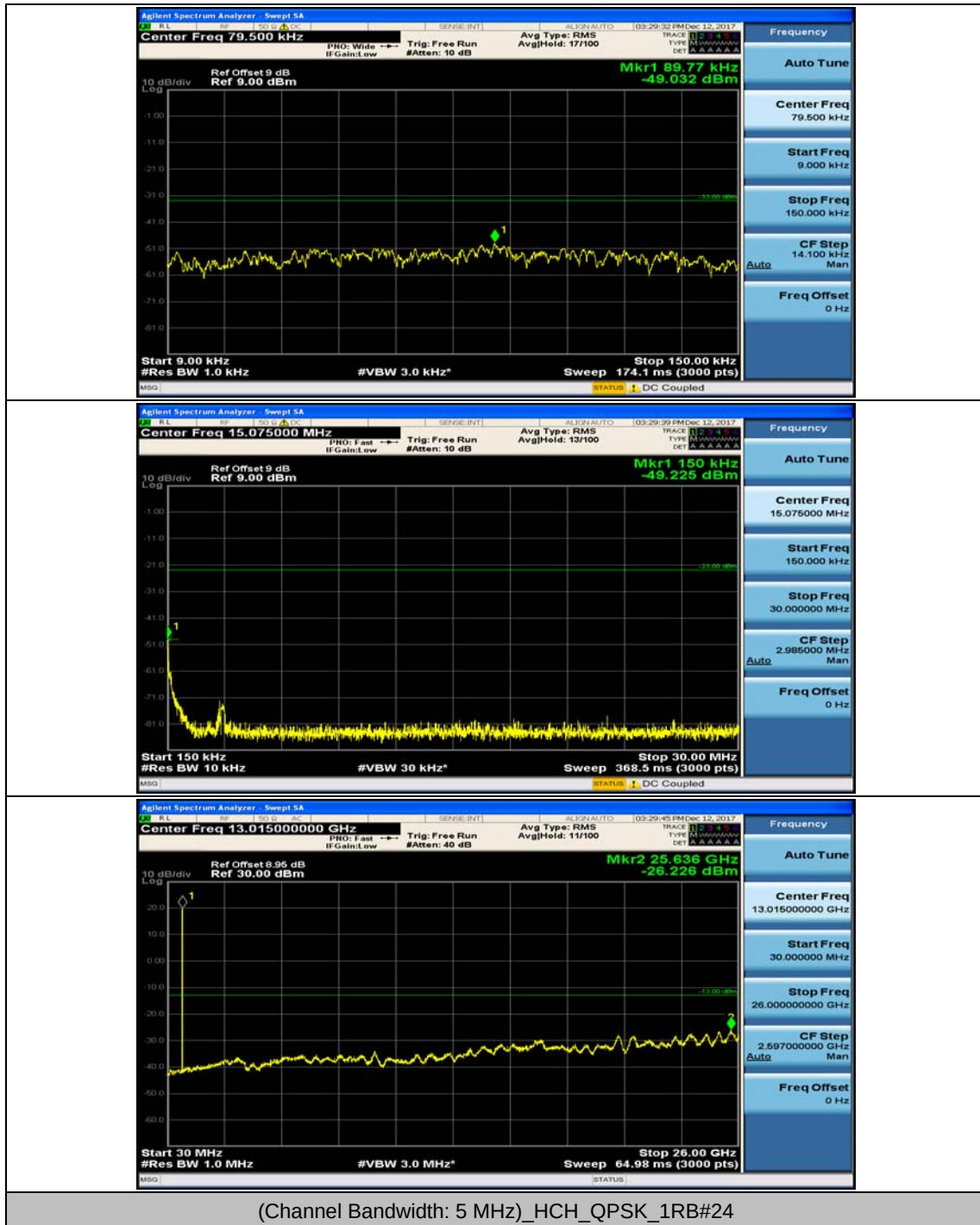


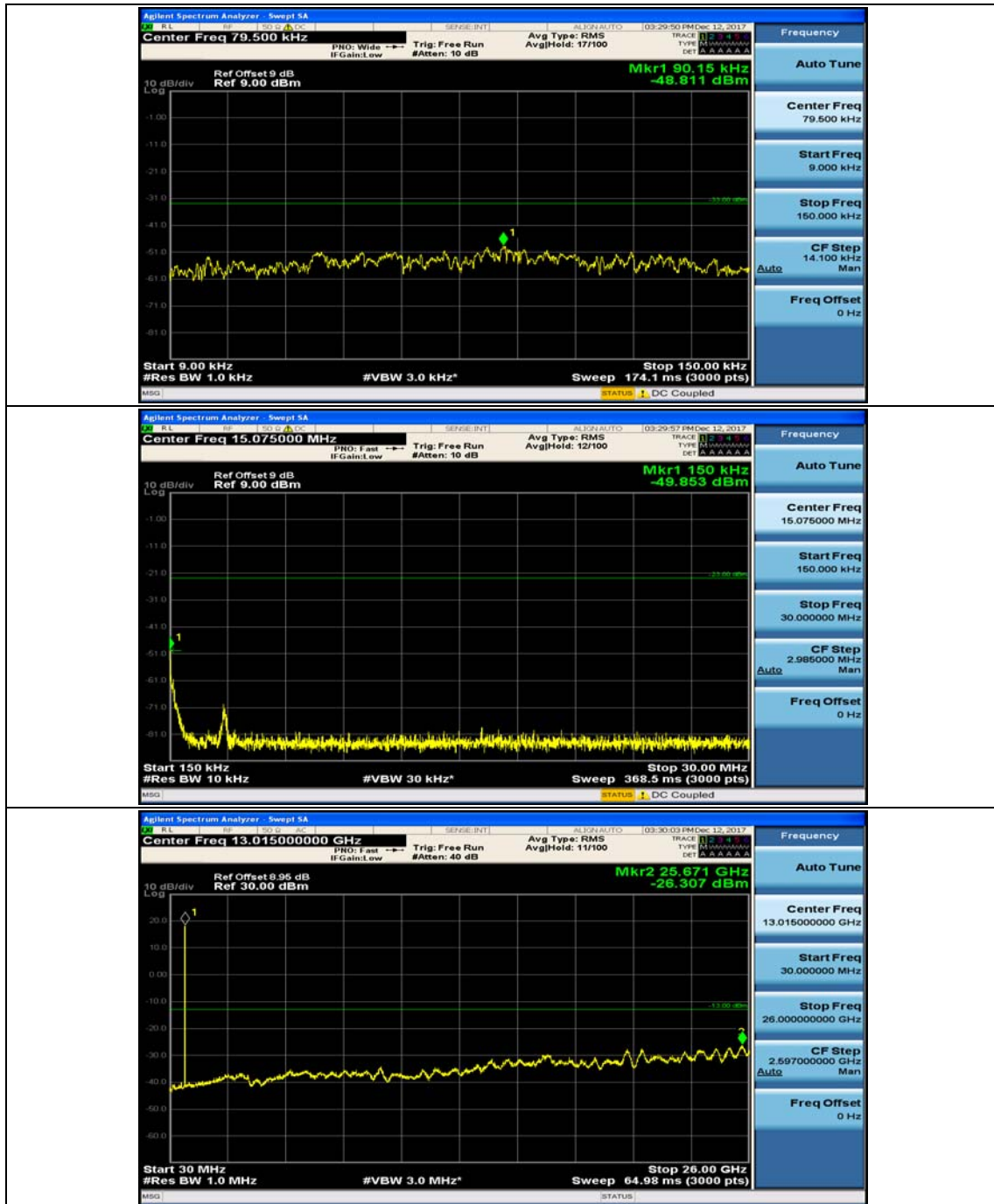


(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#0

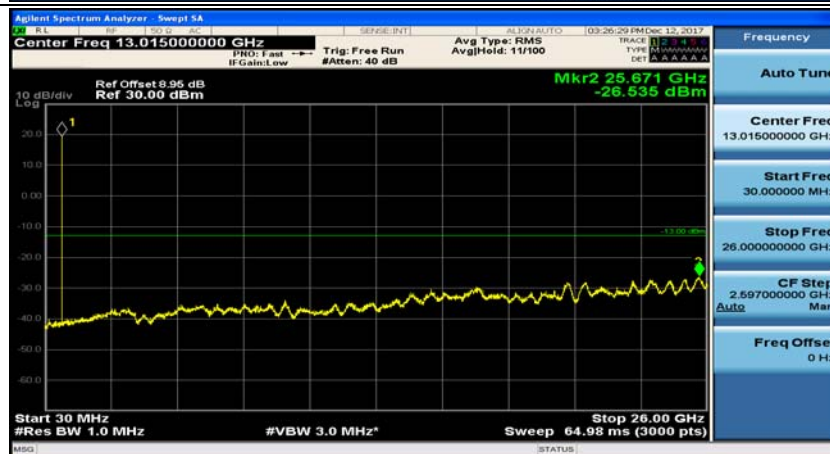
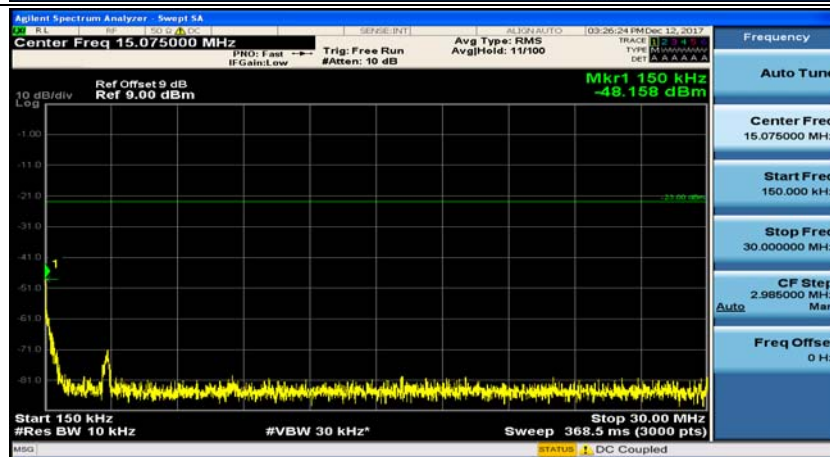
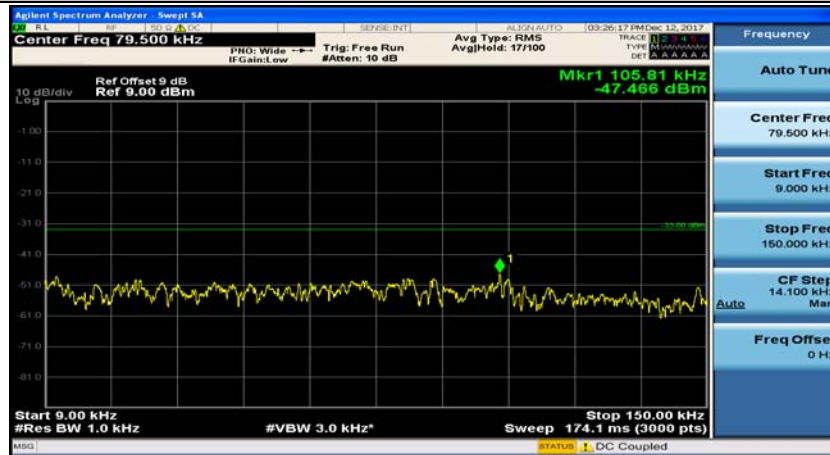


(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#12

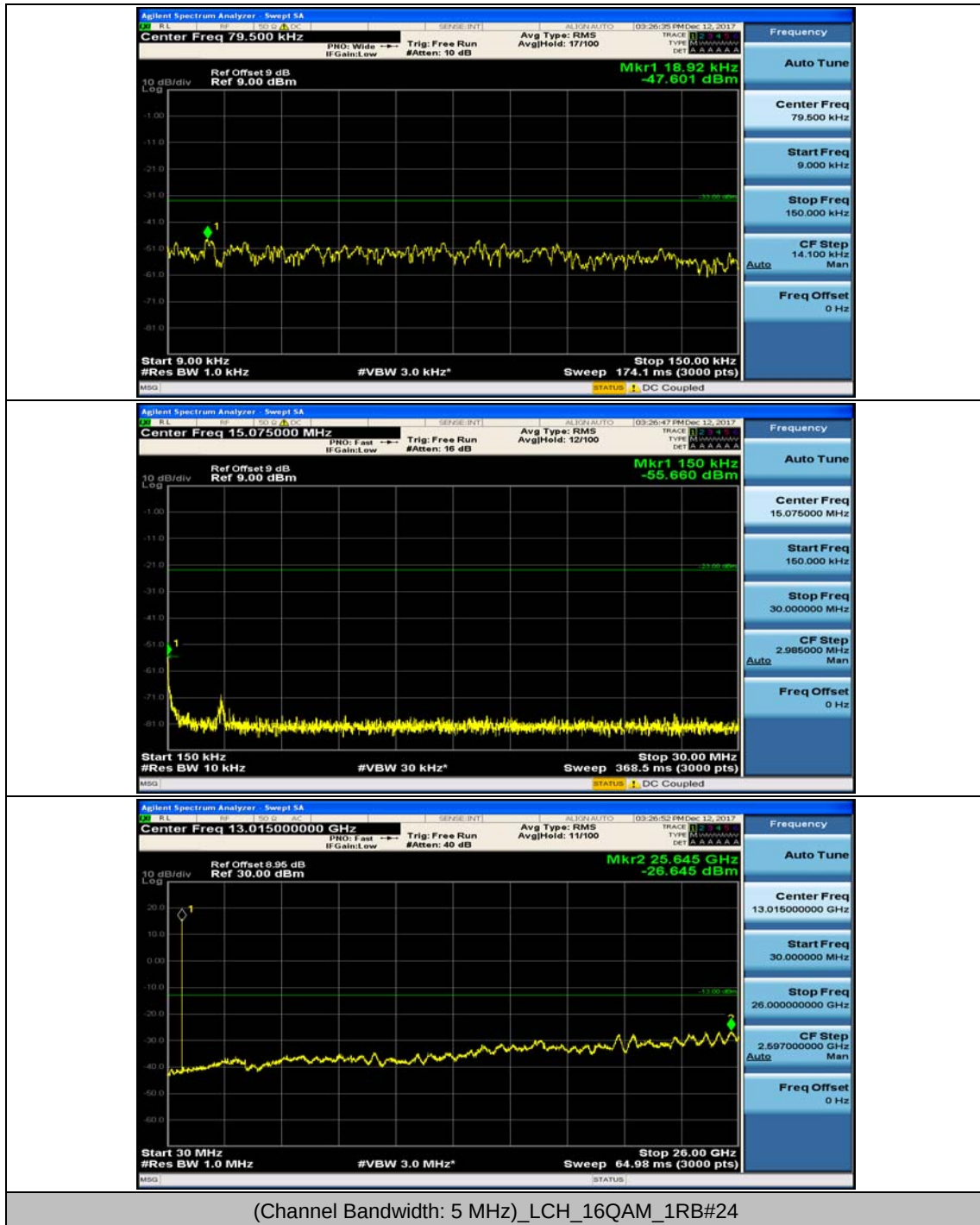


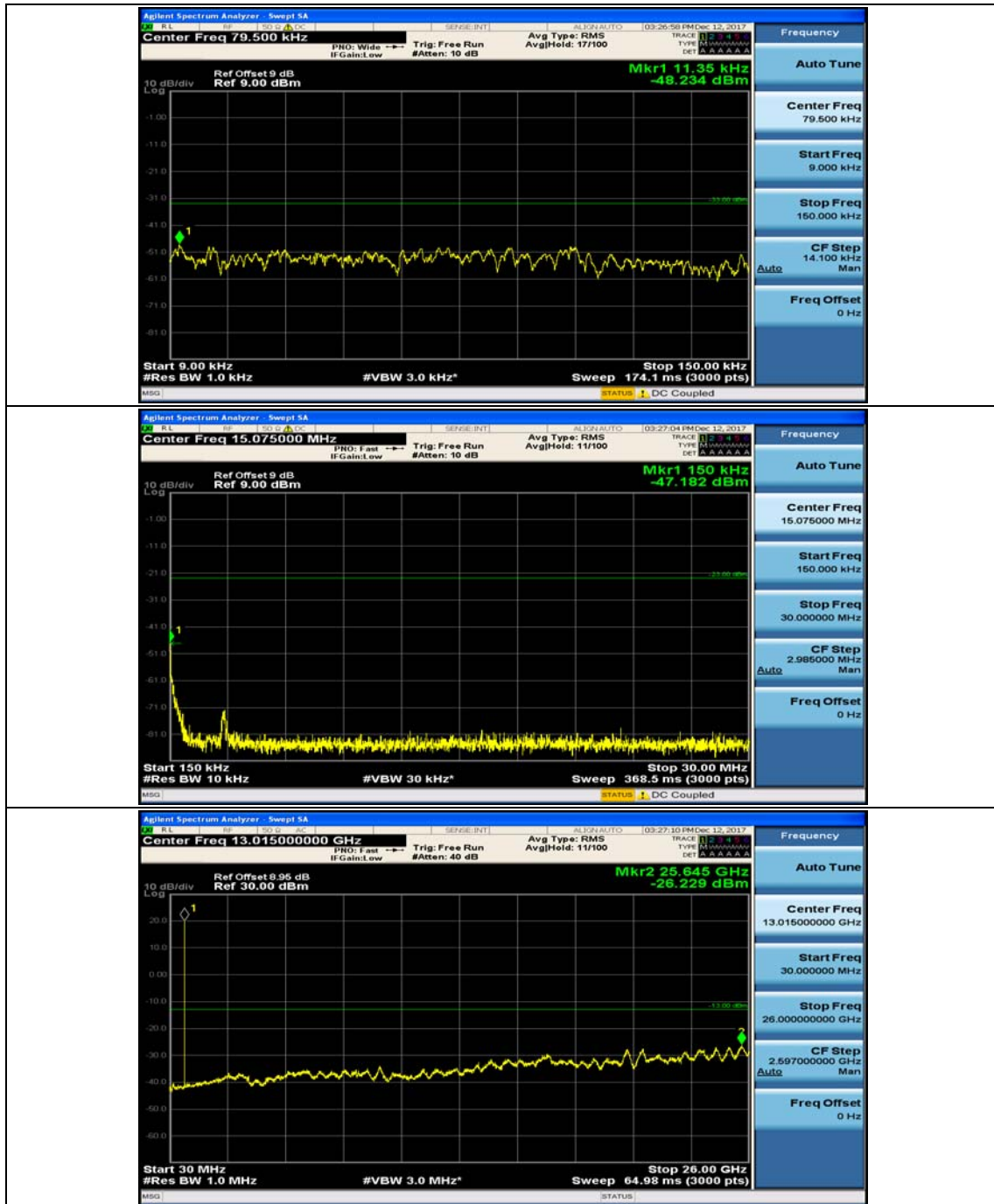


(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#0

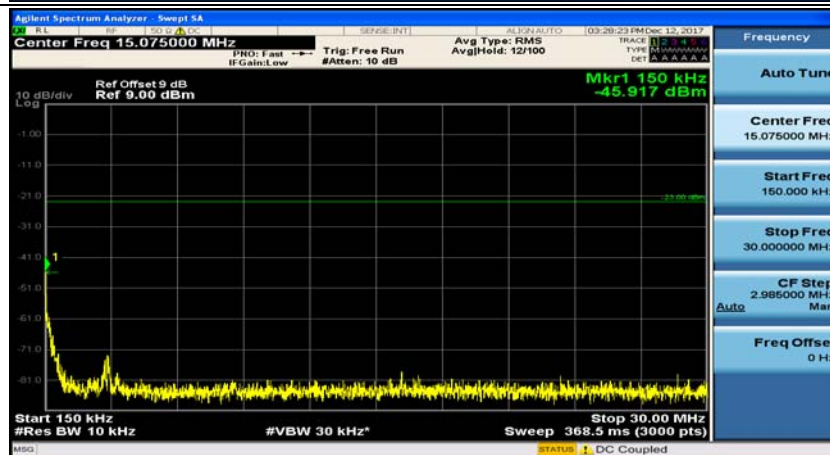


(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#12

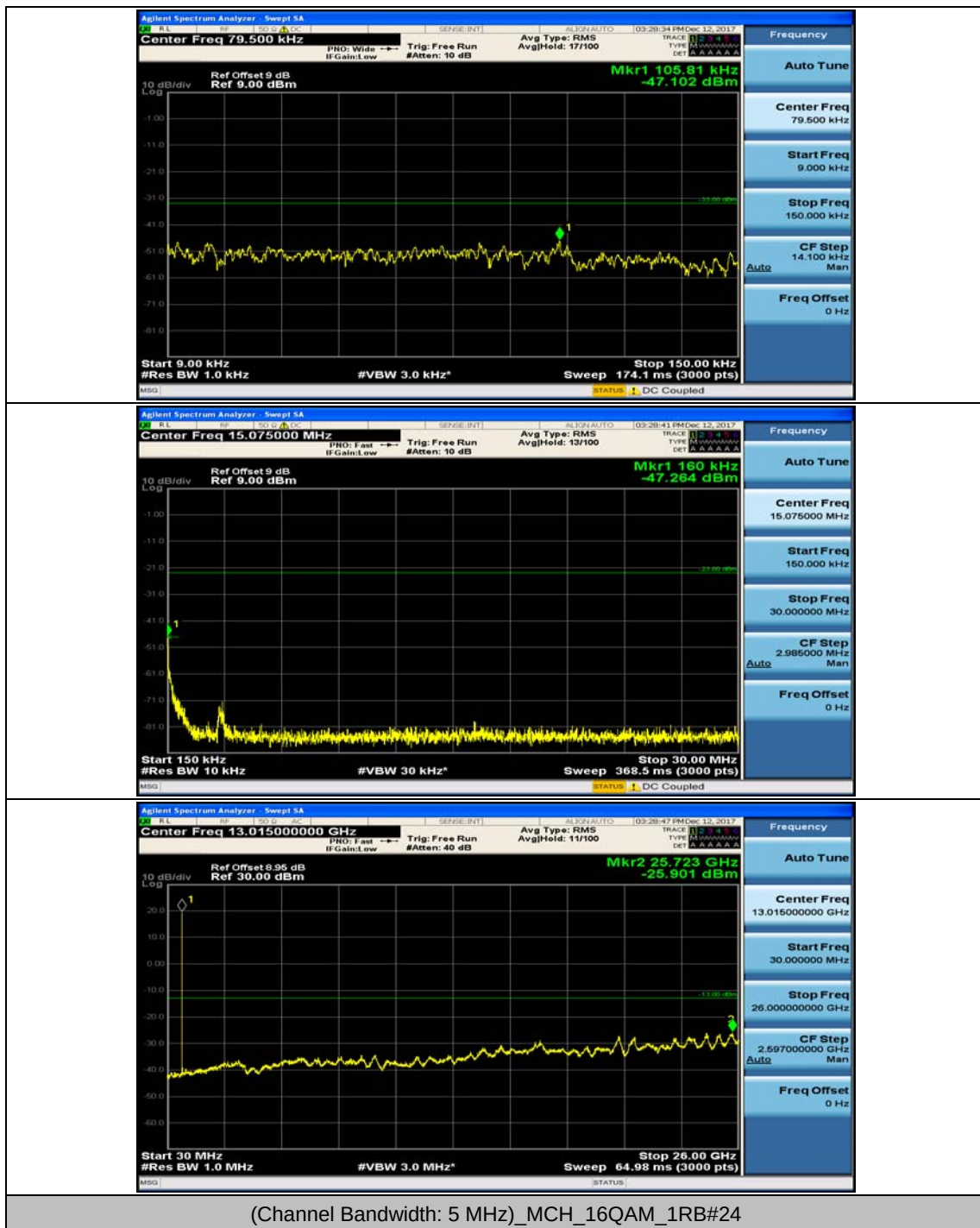


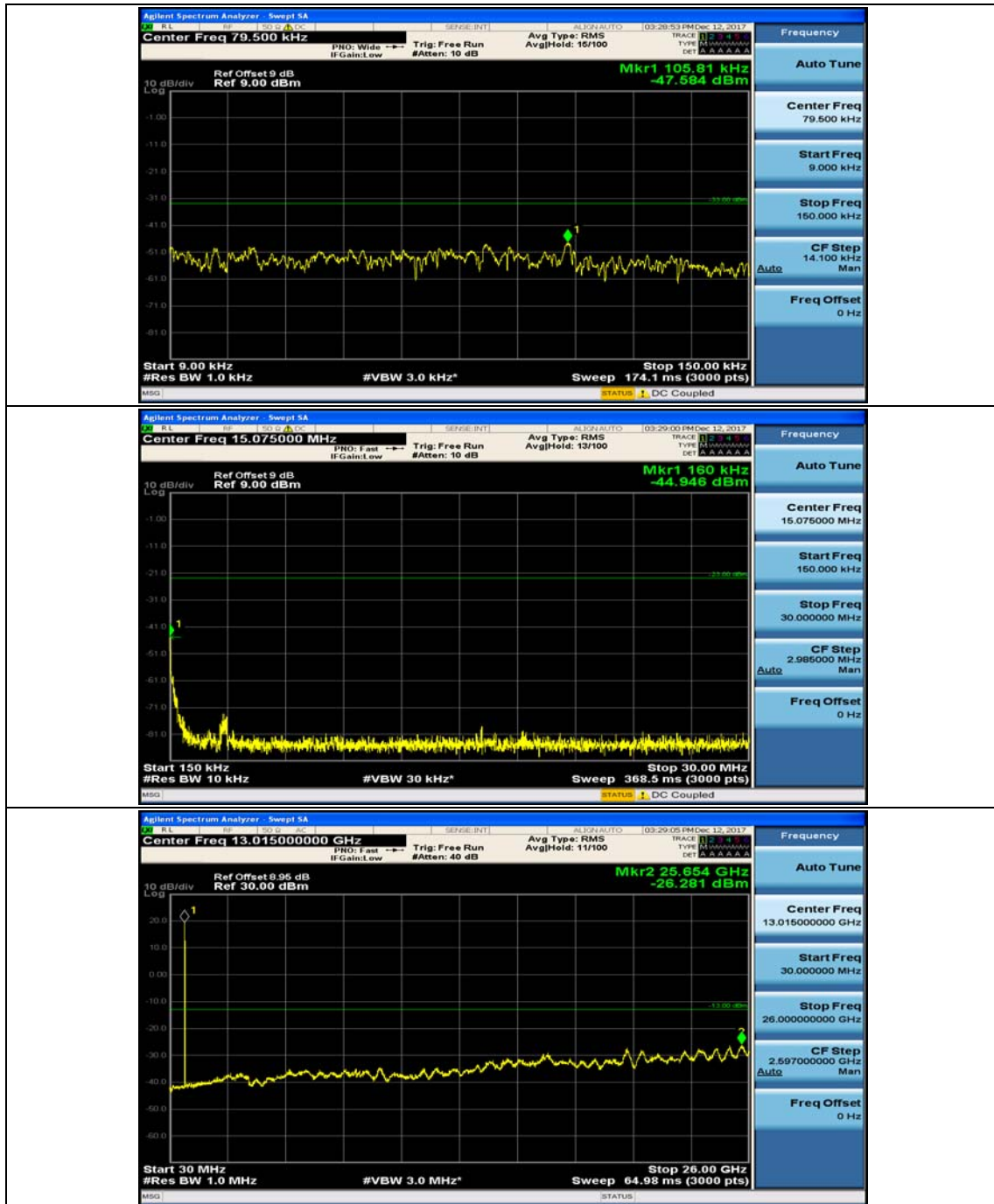


(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#0

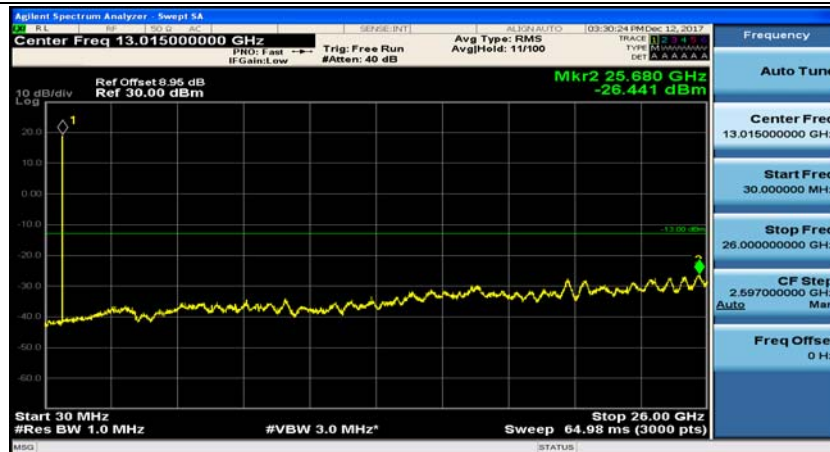
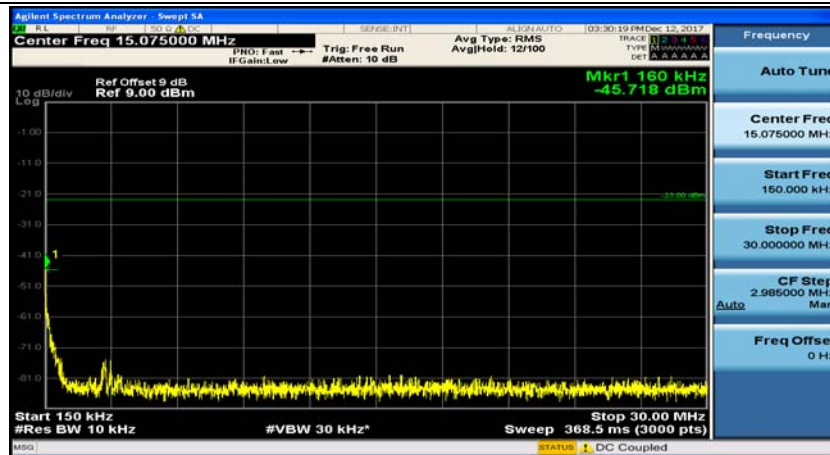
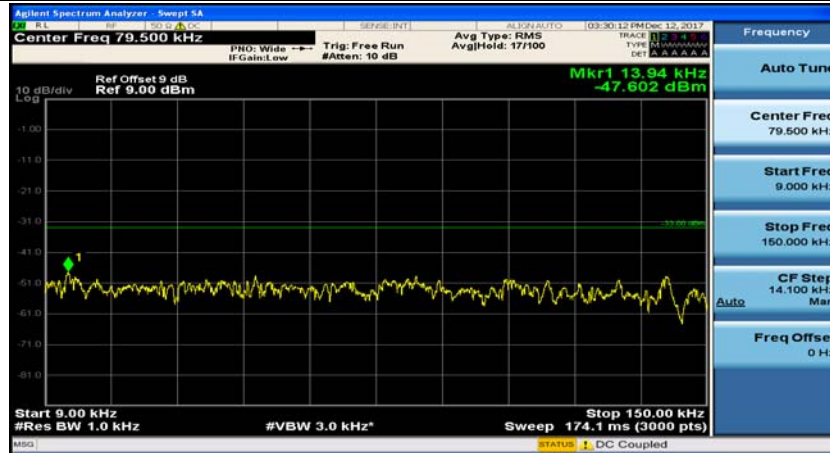


(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#12

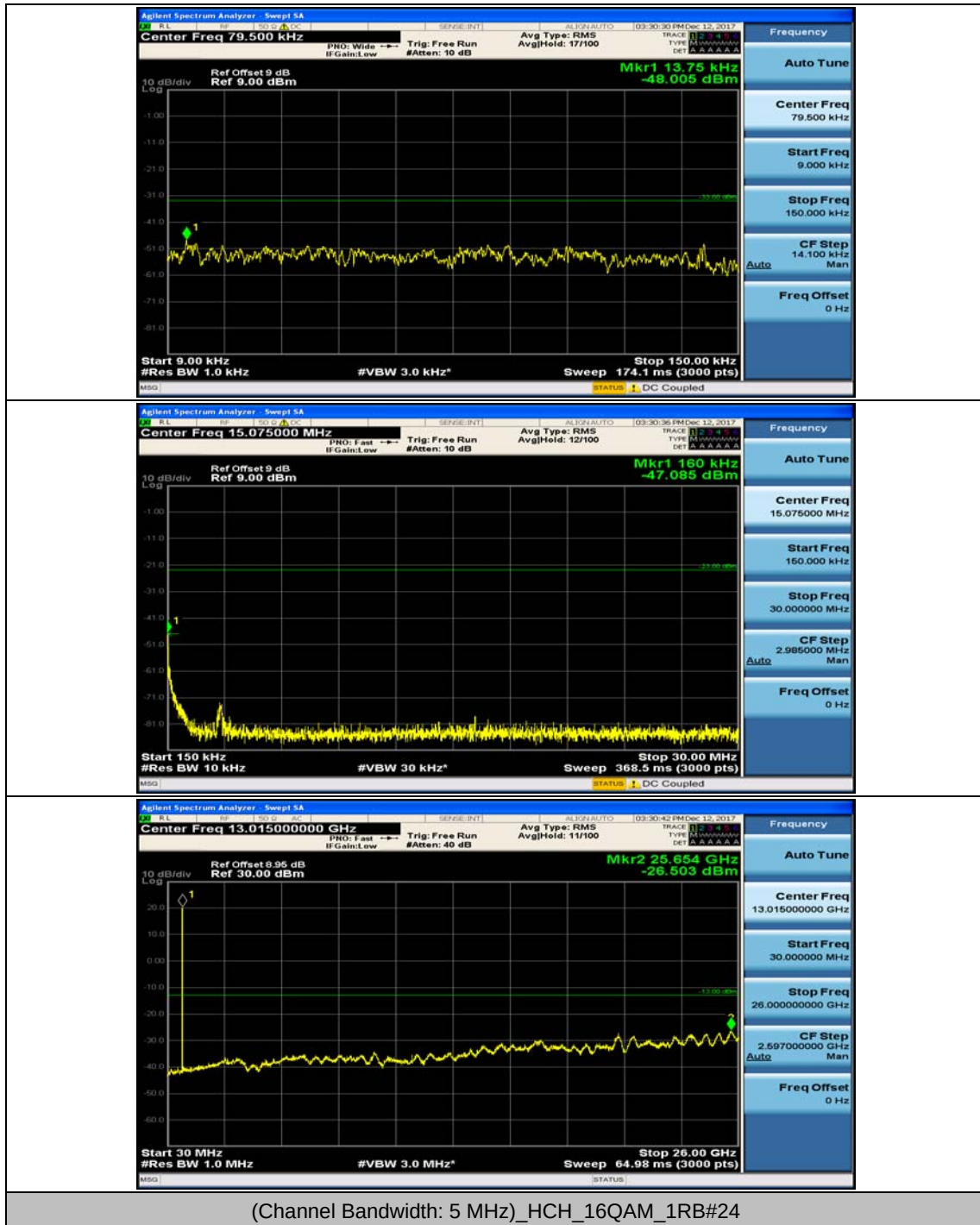


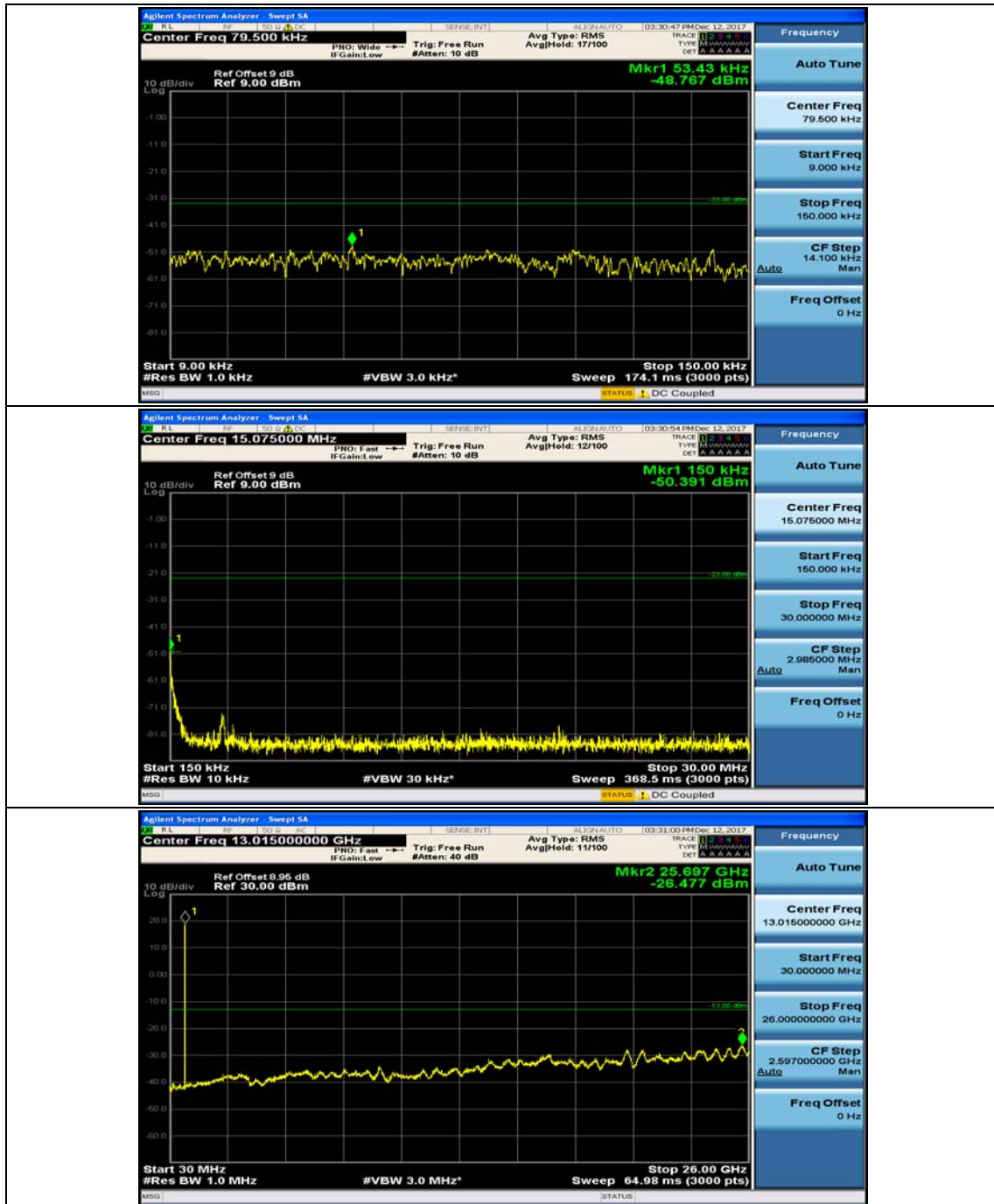


(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#0

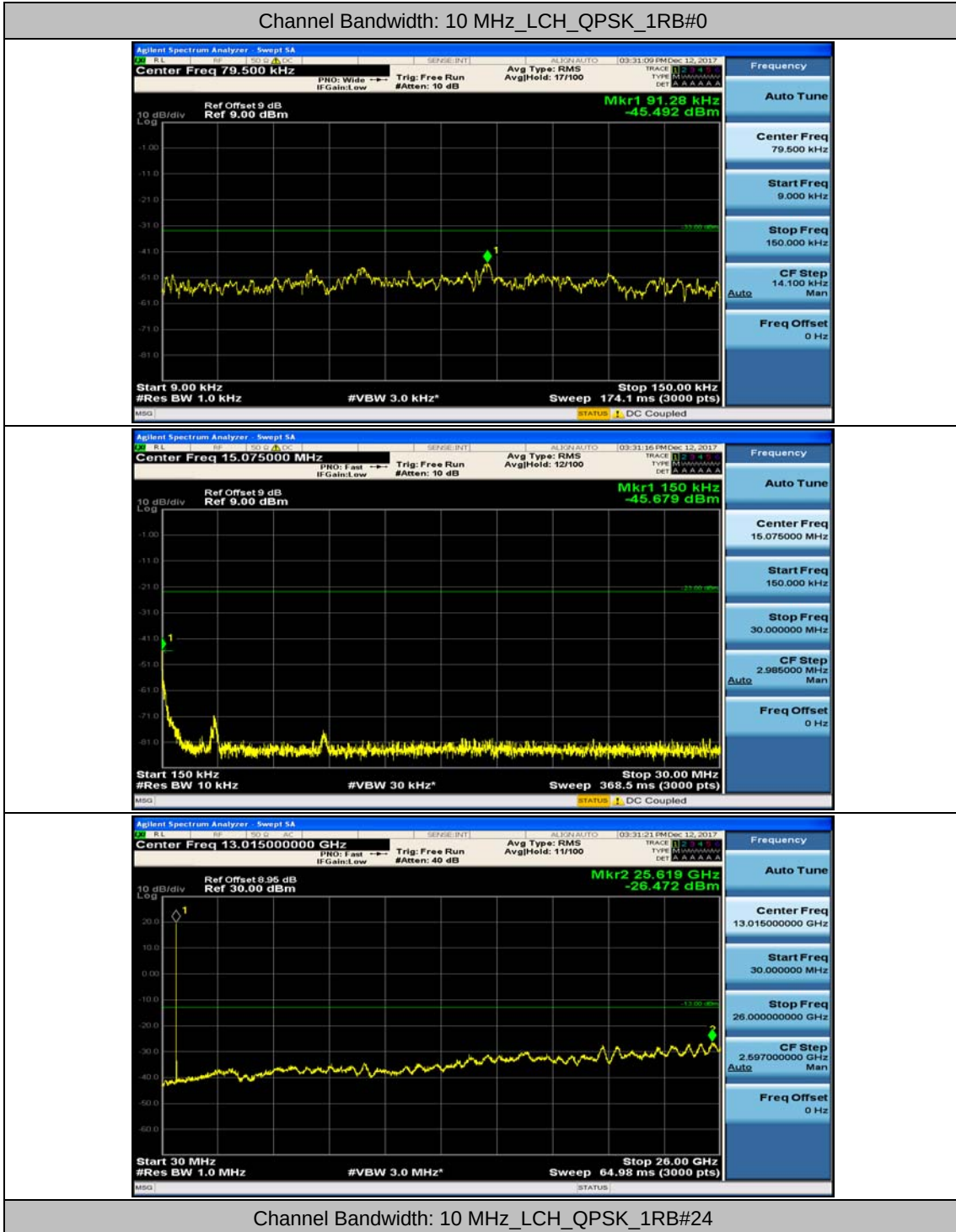


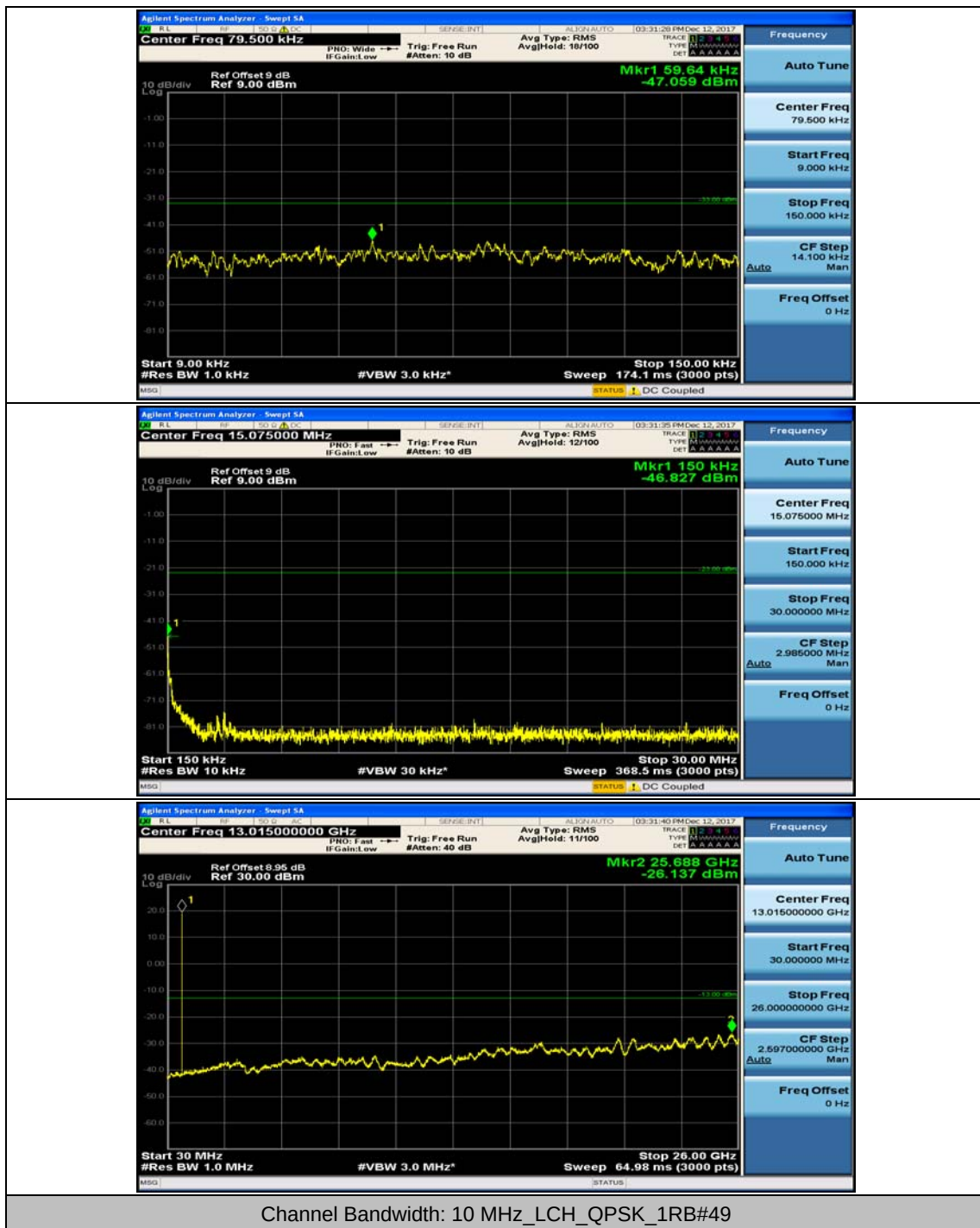
(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#12

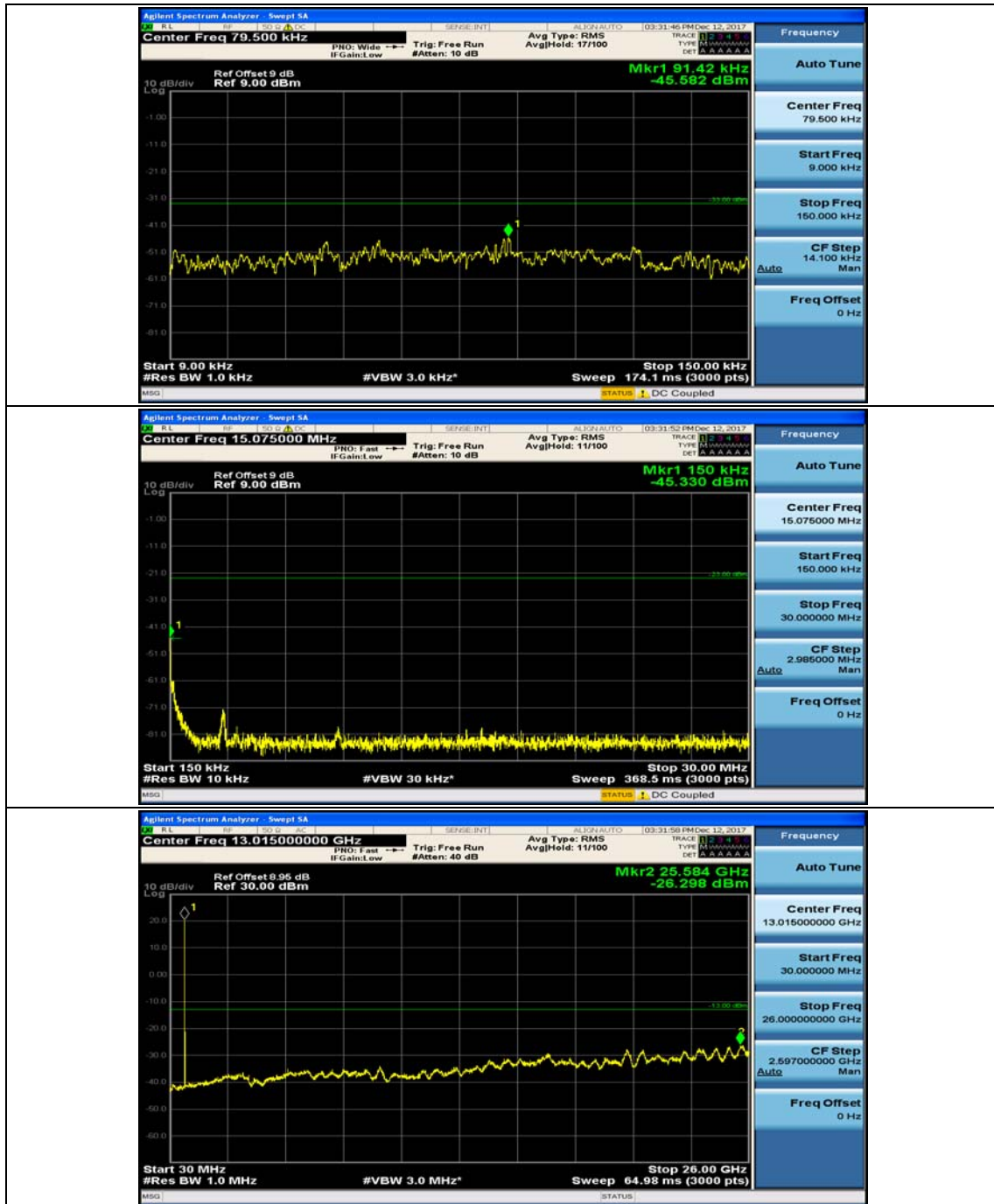




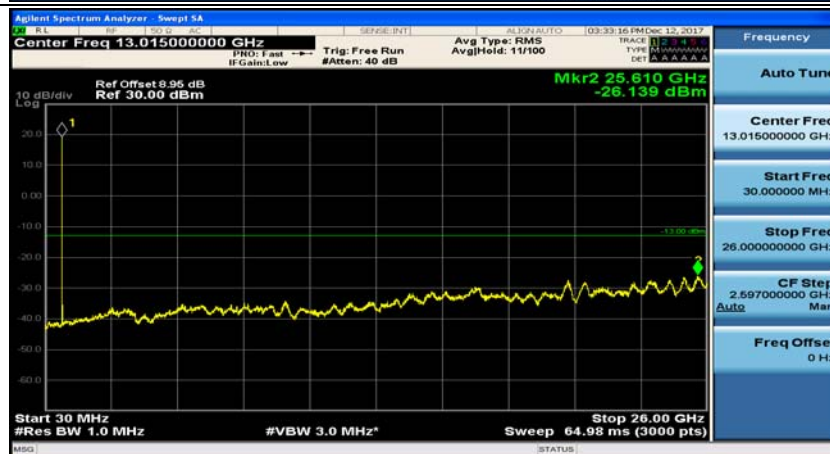
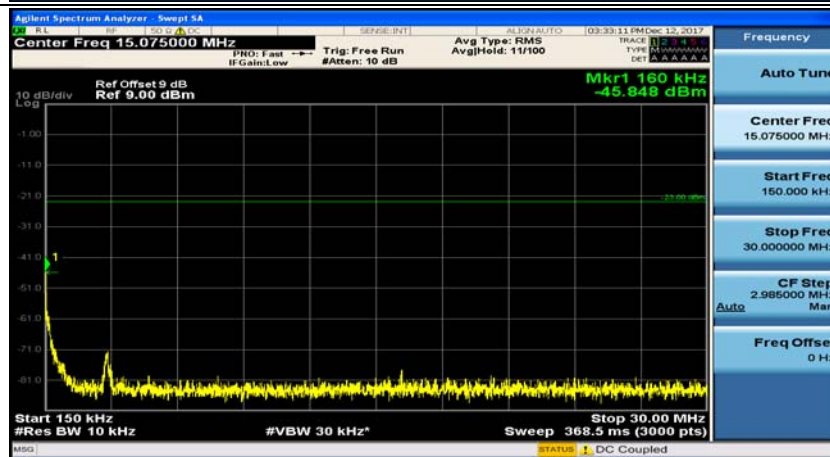
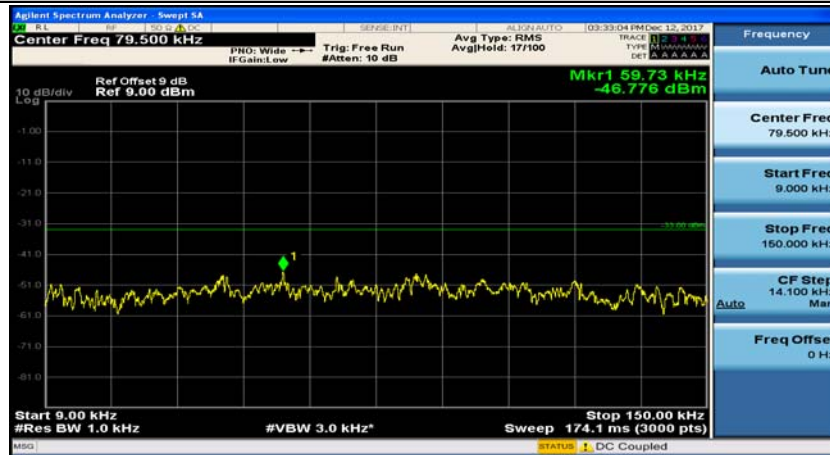
Channel Bandwidth: 10 MHz



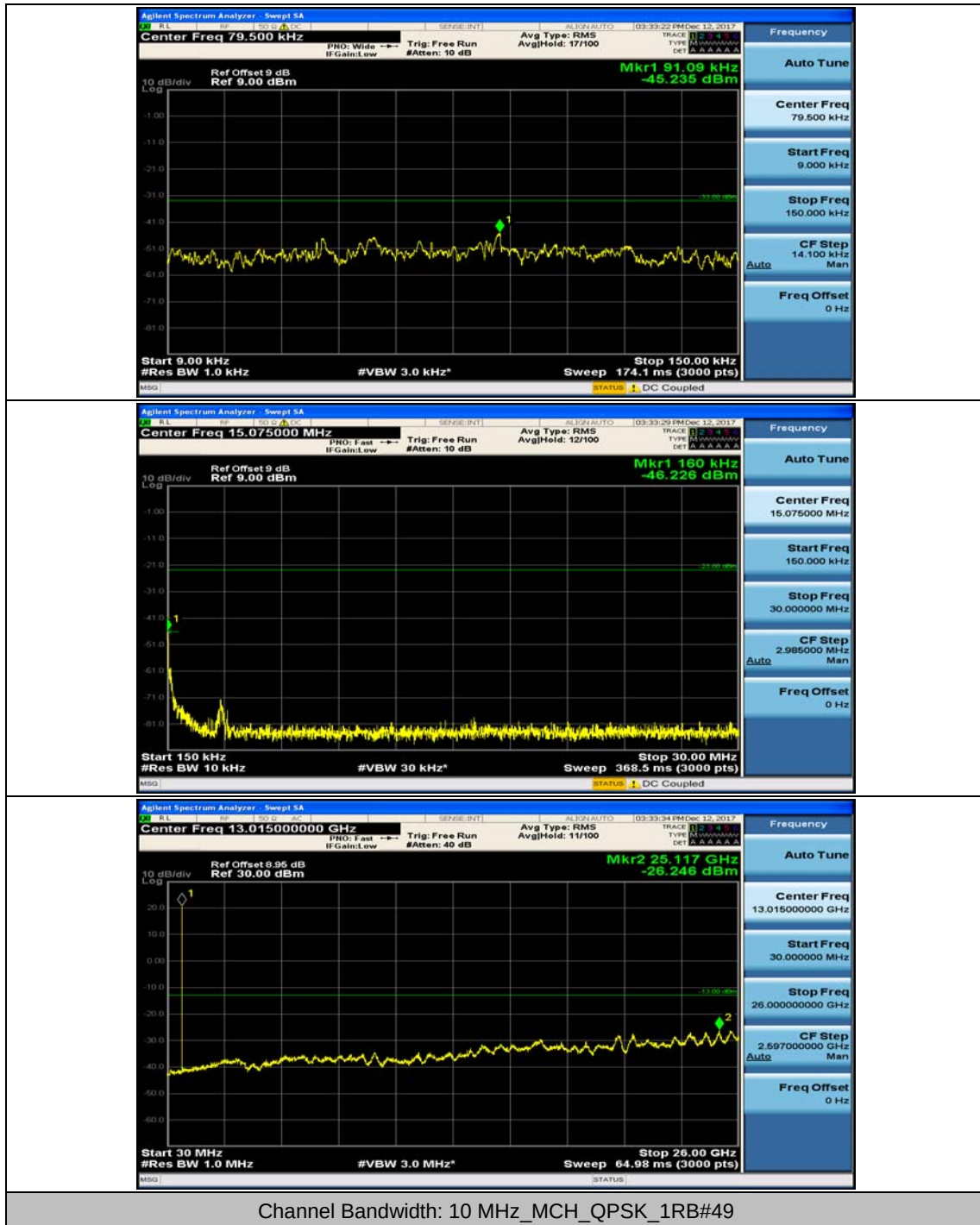


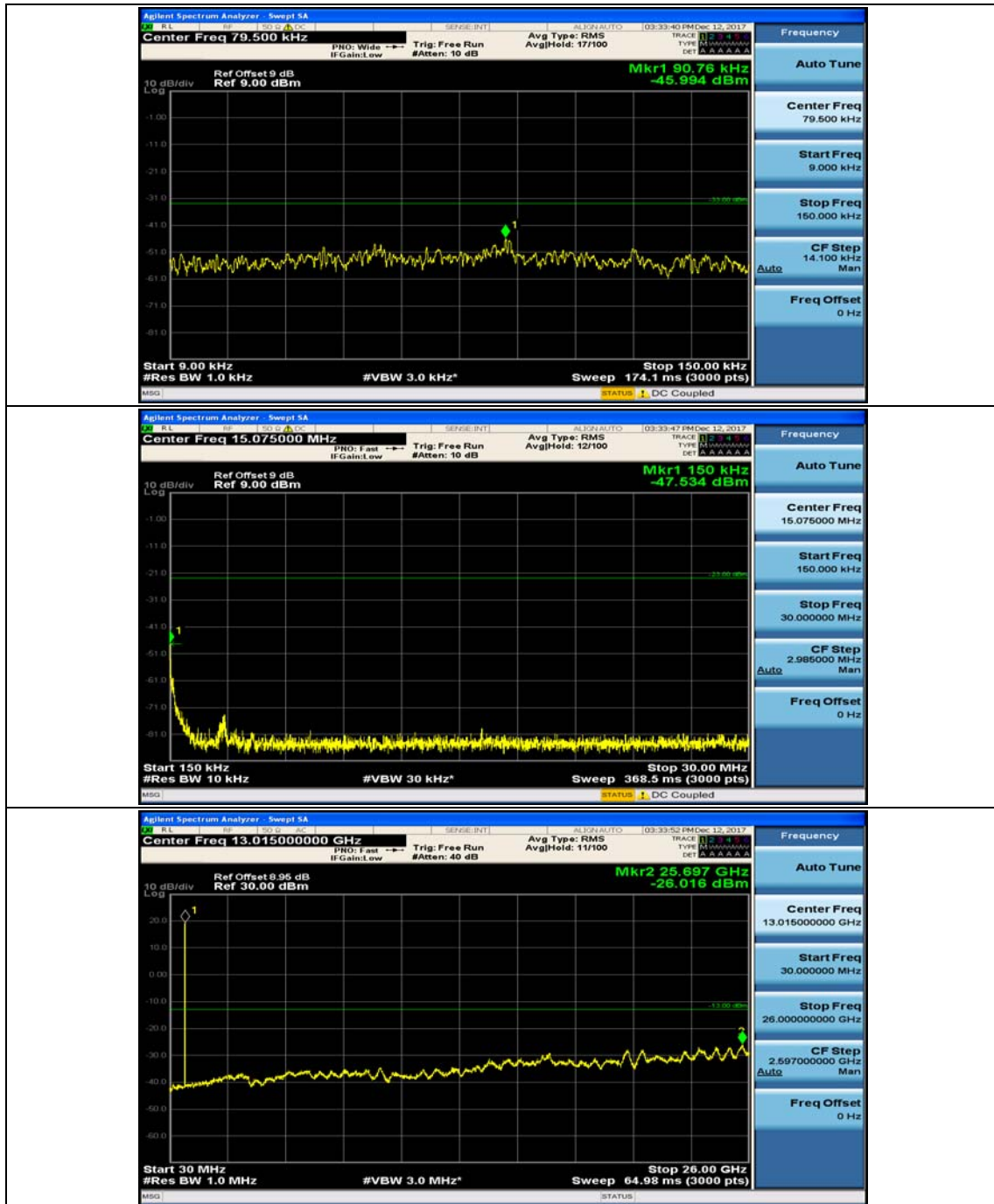


Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#0

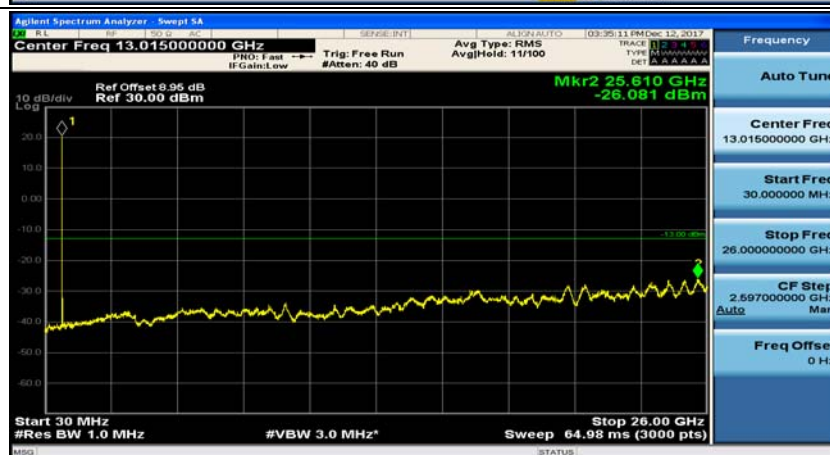
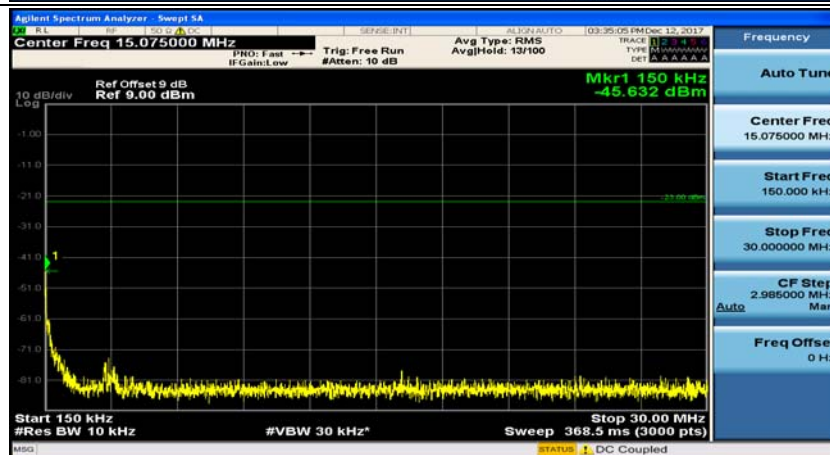
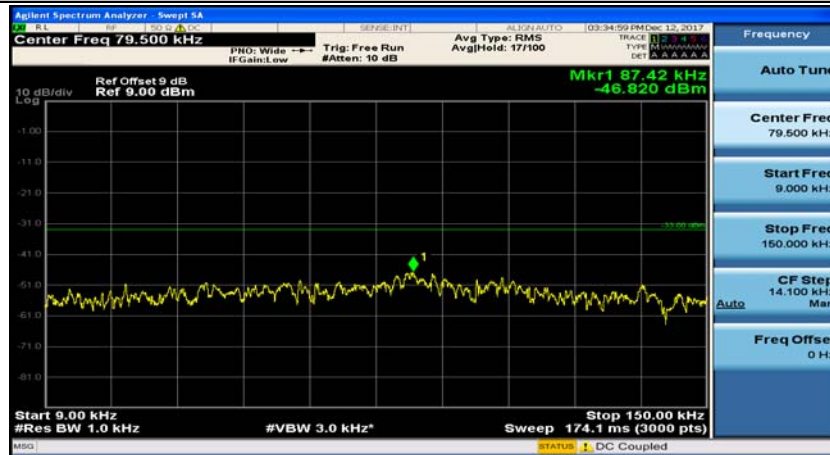


Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#24

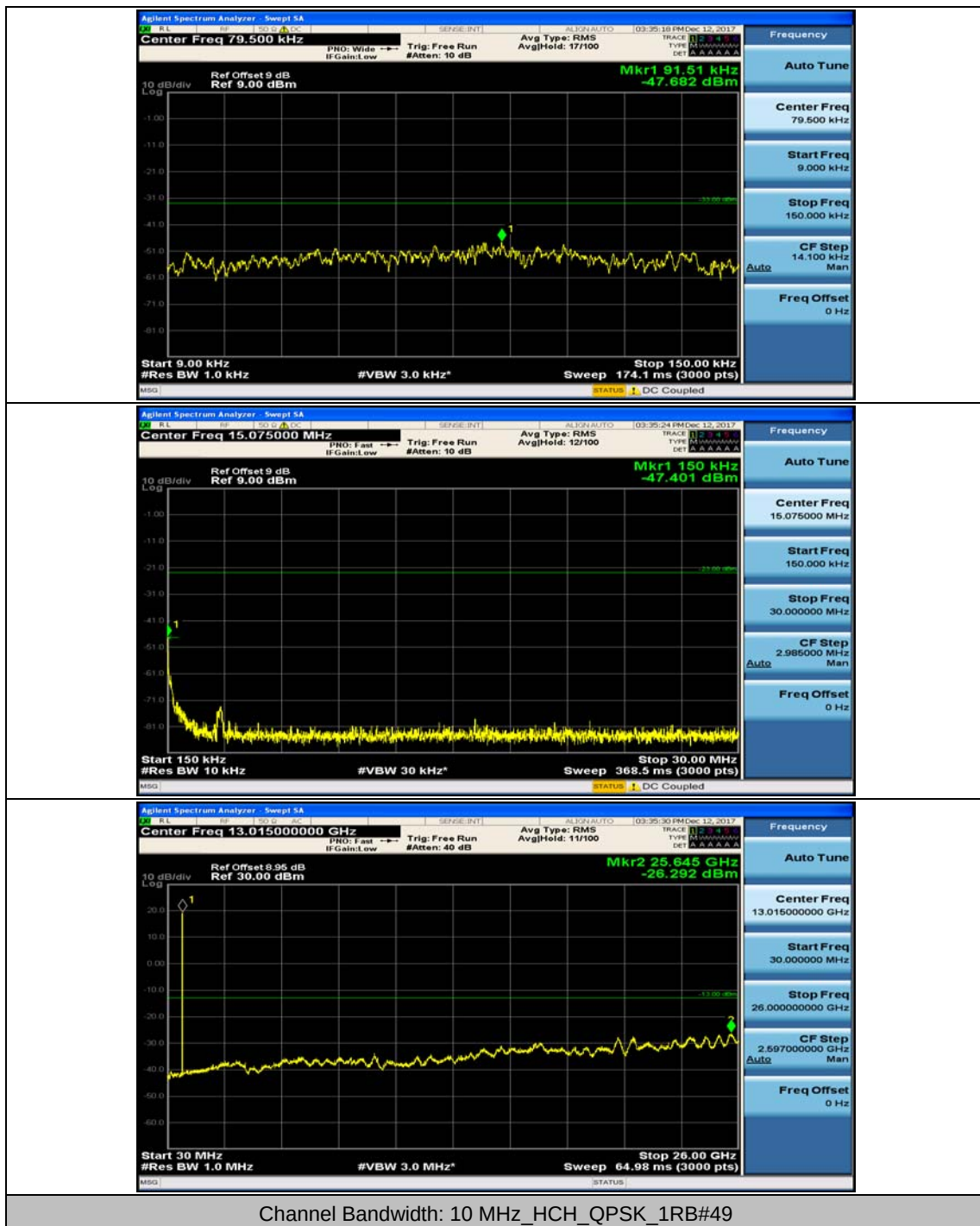


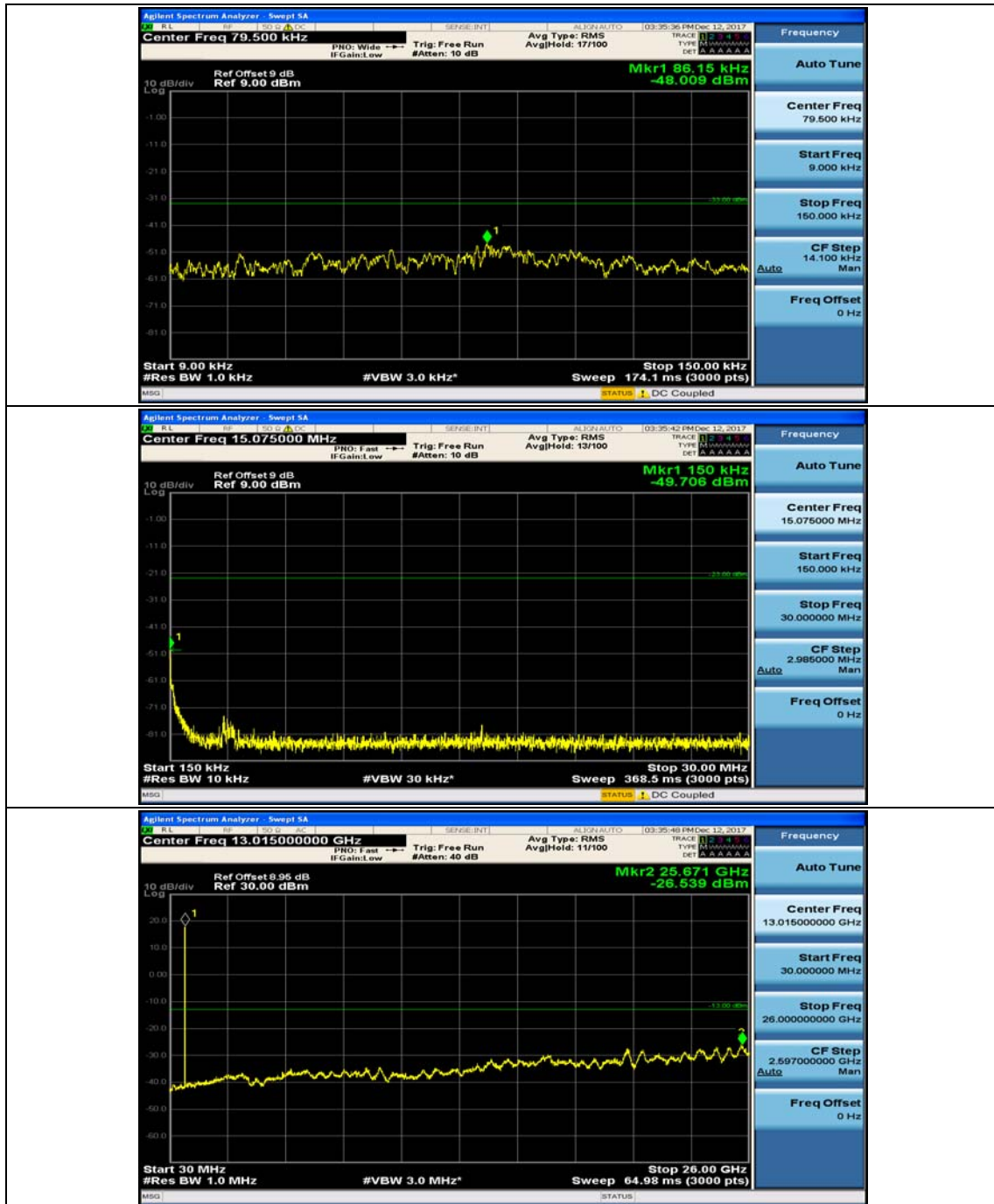


Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#0

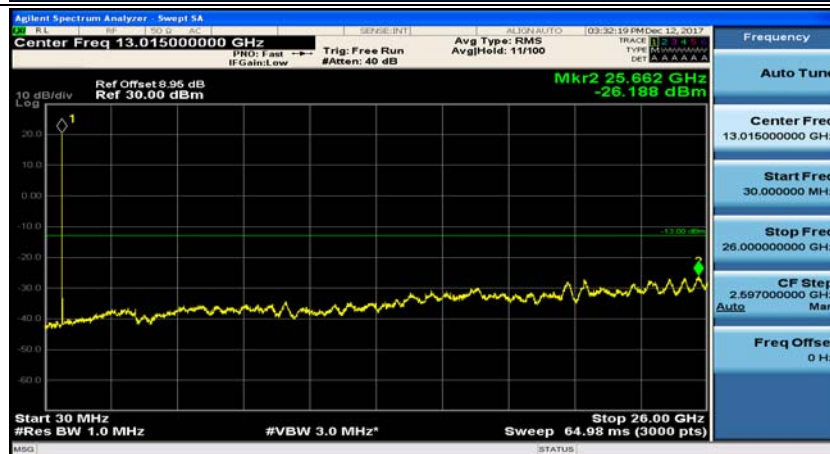
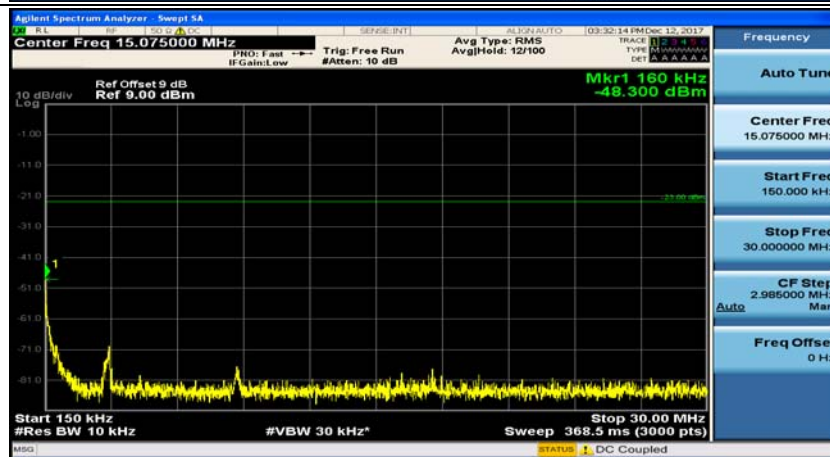
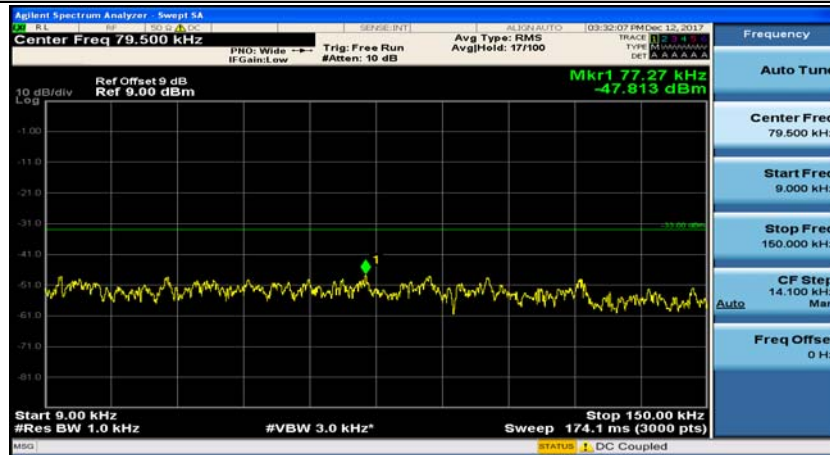


Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#24

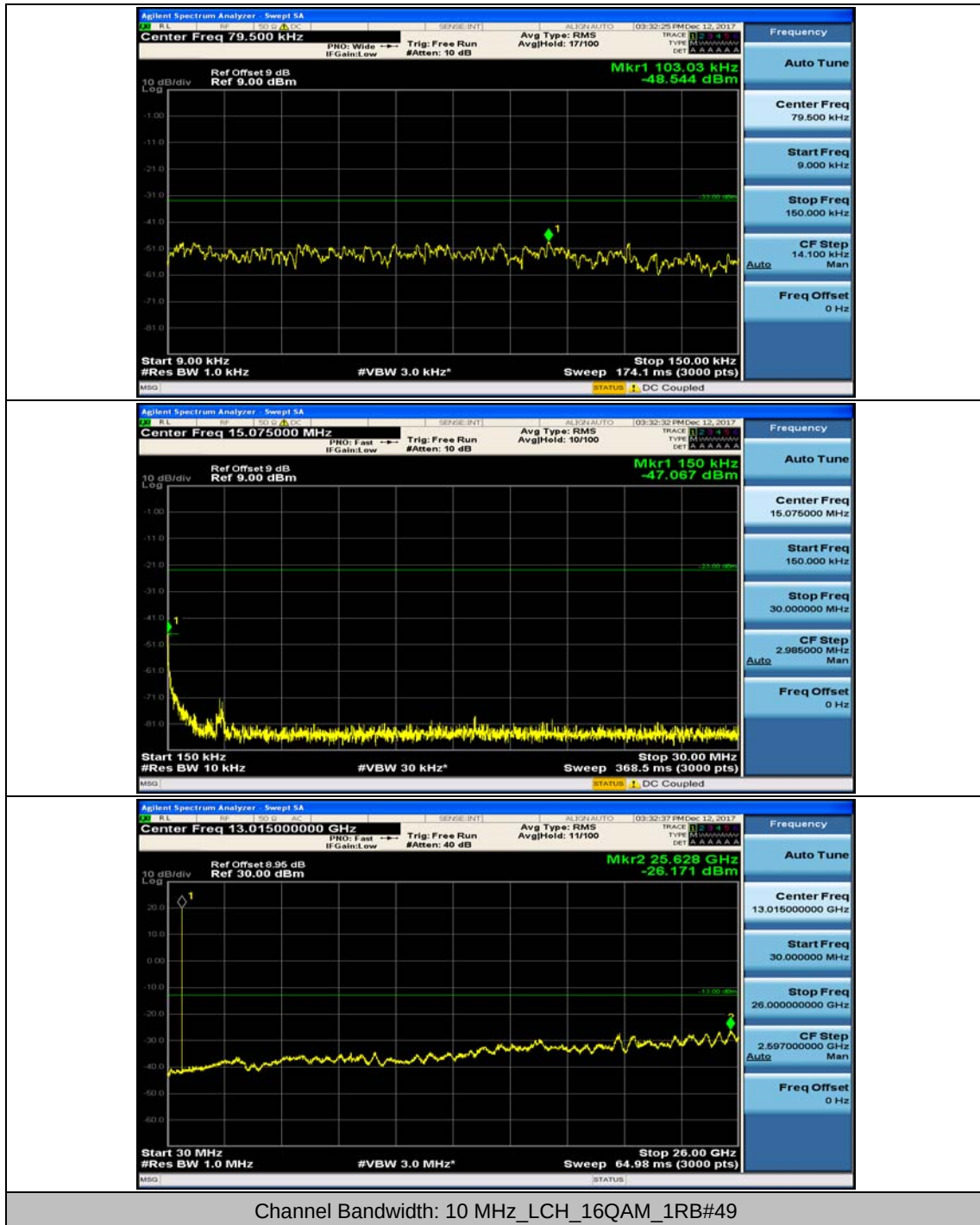


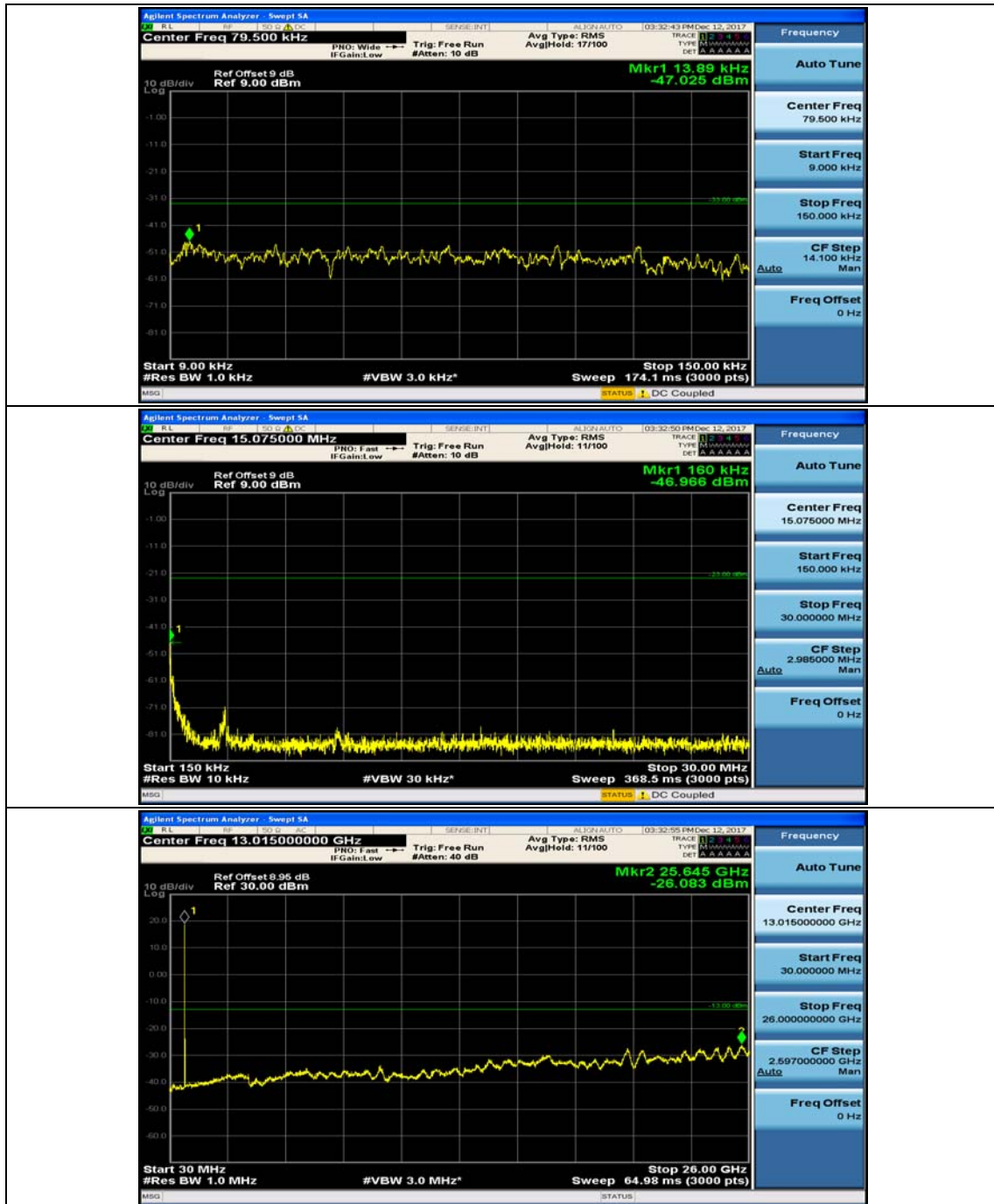


Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#0

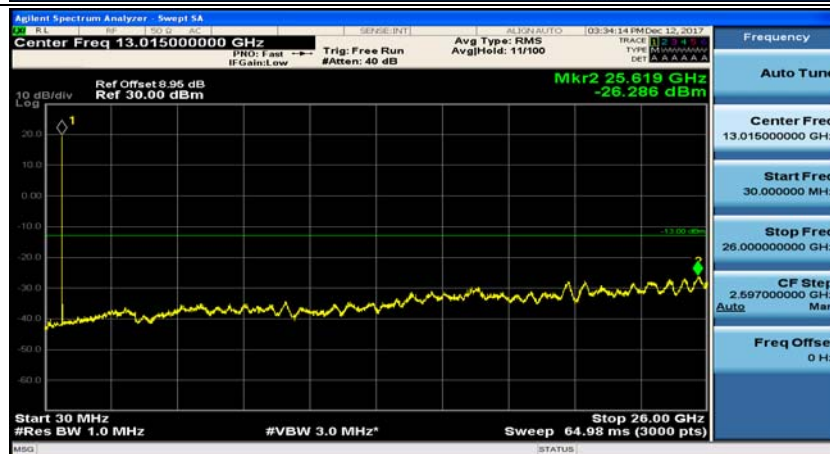
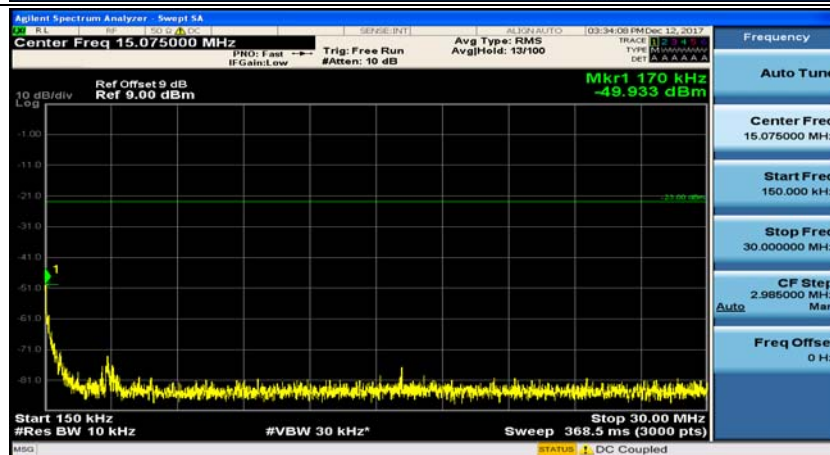
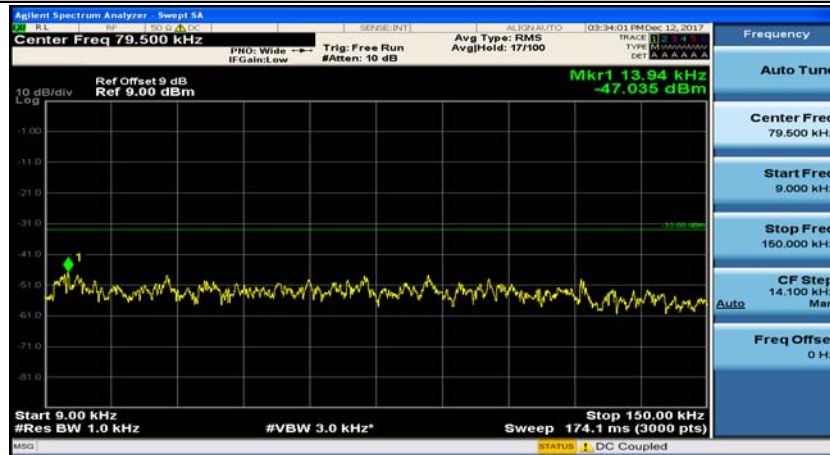


Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#24

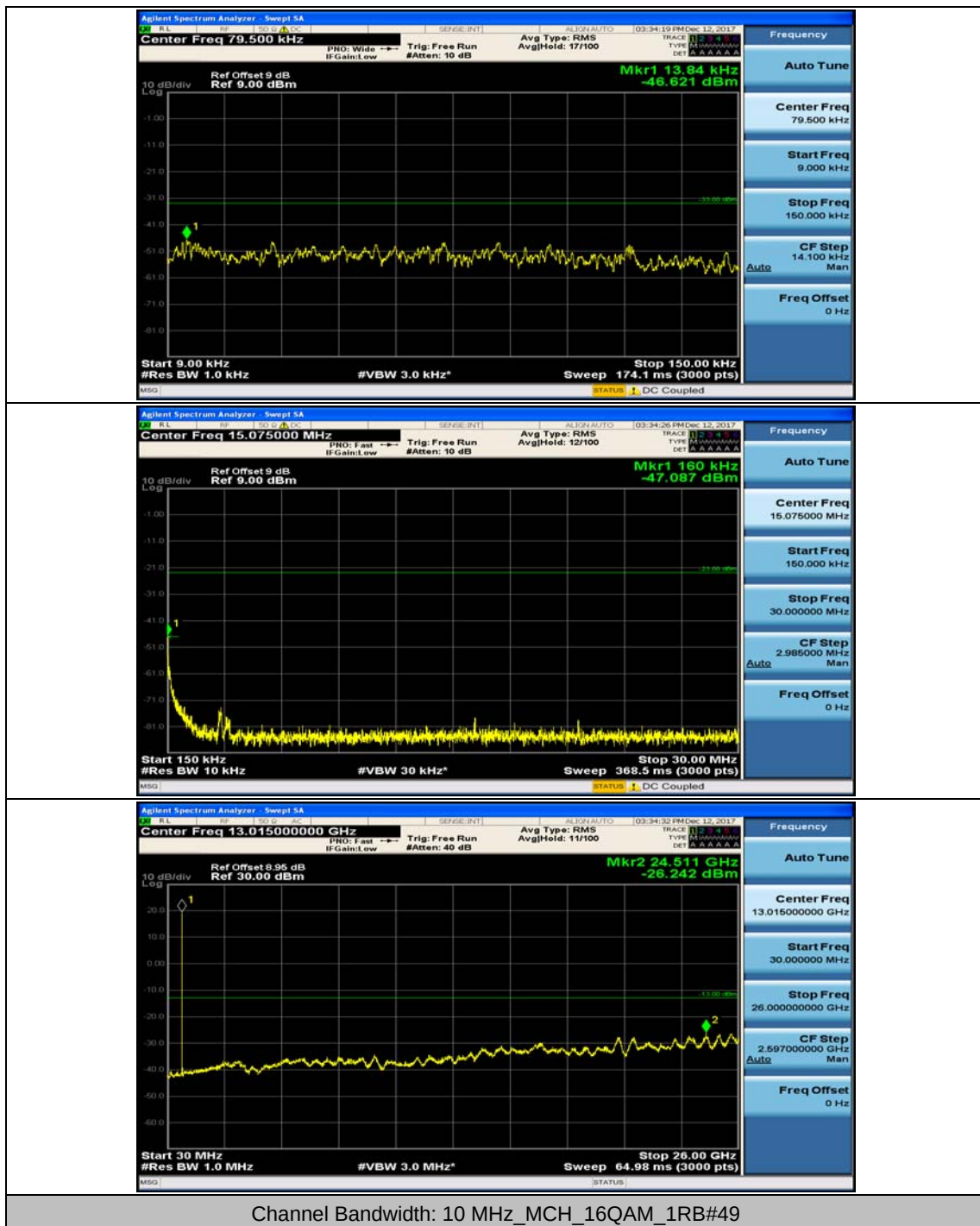


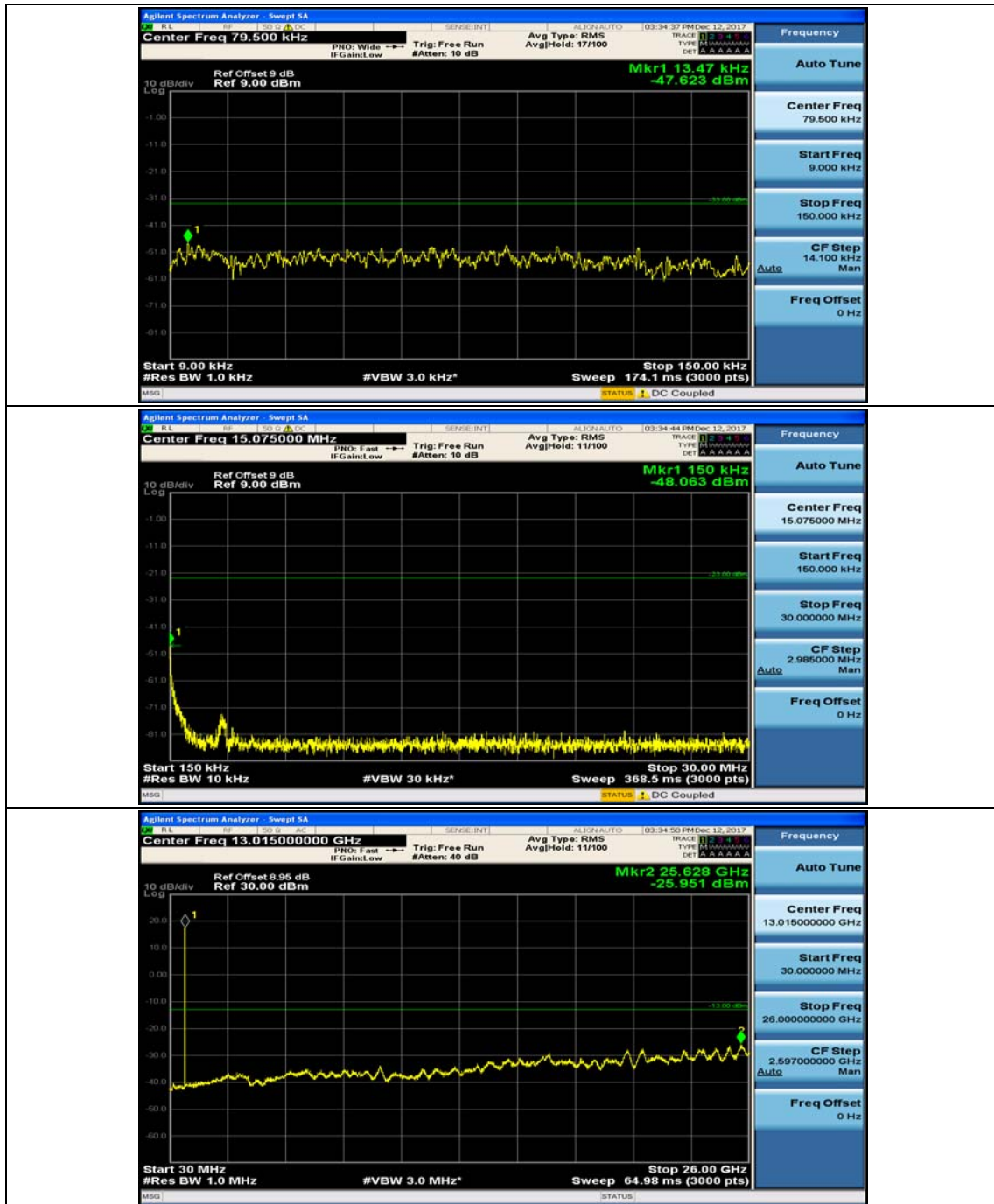


Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#0

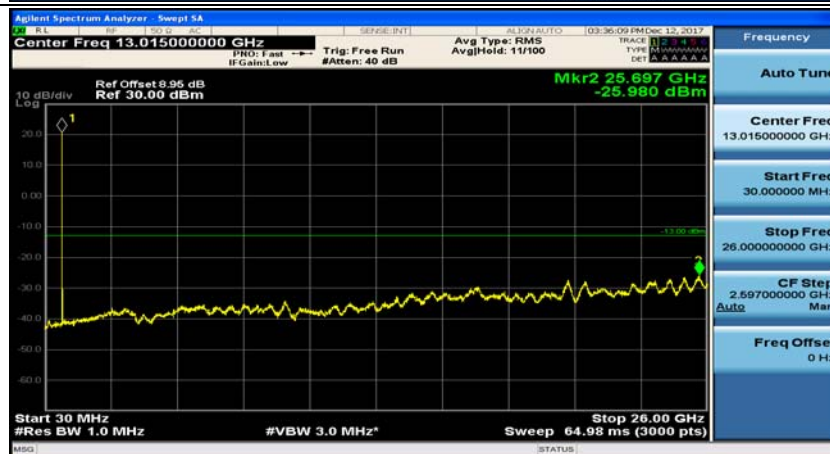
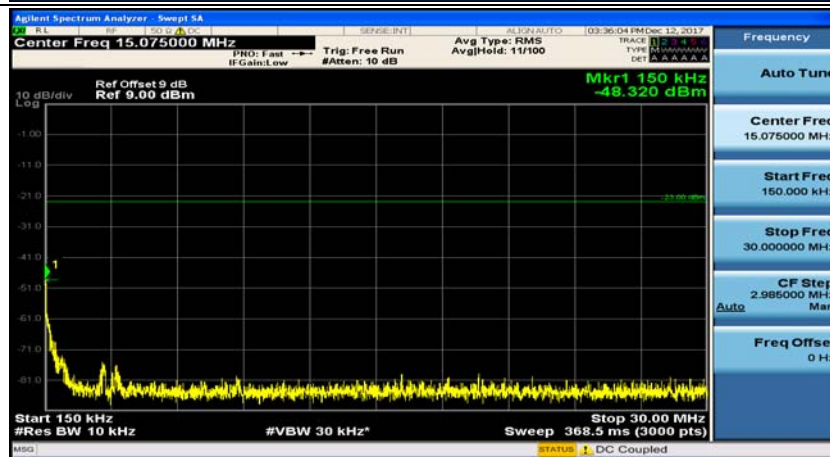
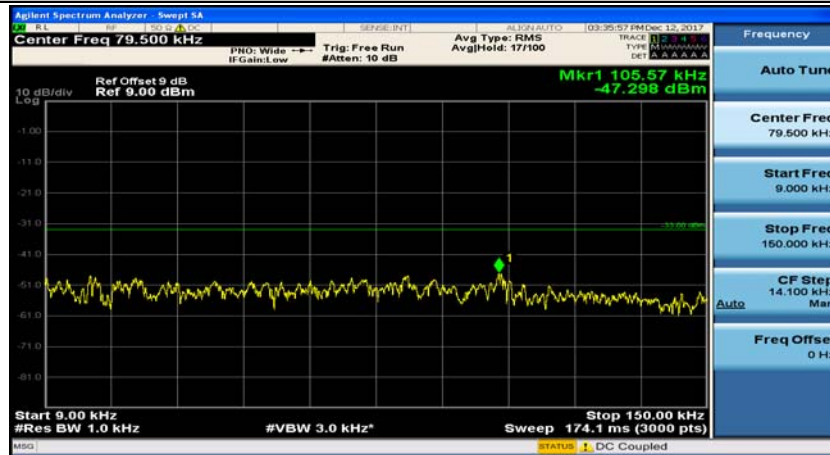


Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#24

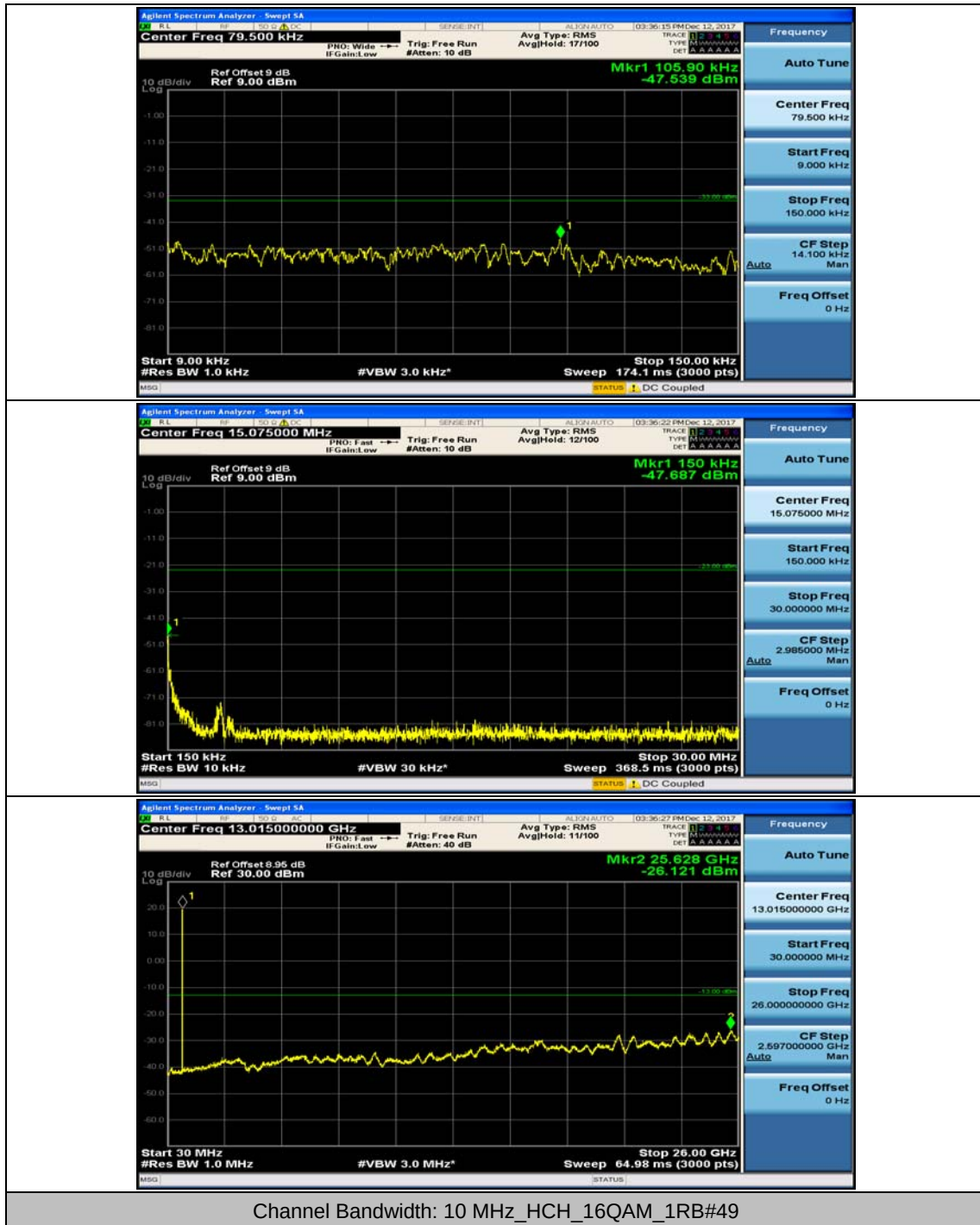


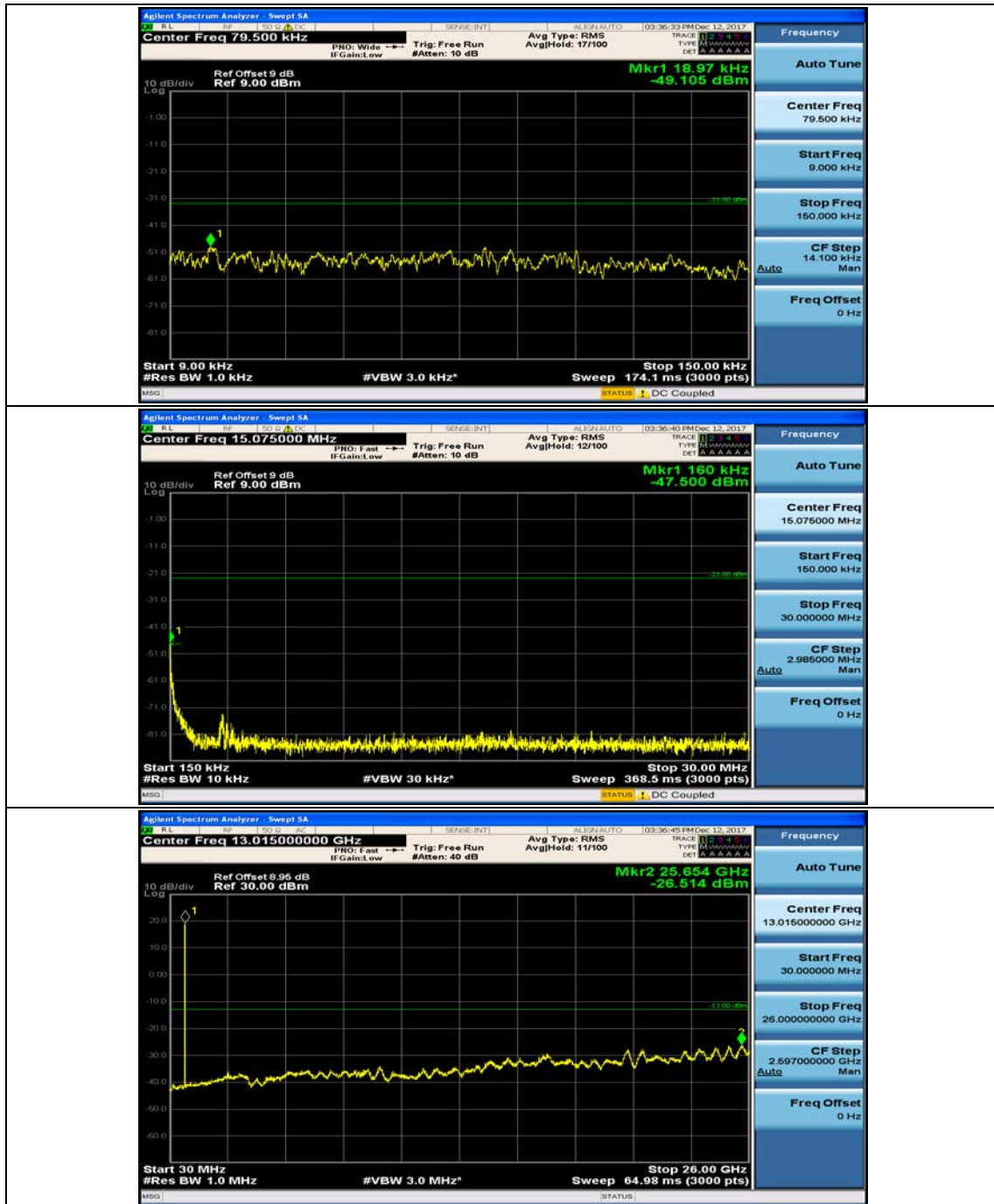


Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#0



Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#24





Appendix F: Frequency Stability

Test Result

Channel Bandwidth: 1.4 MHz

Channel Bandwidth: 1.4 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	-1.89	-0.002701	± 2.5	PASS
		VN	TN	-1.31	-0.001872	± 2.5	PASS
		VH	TN	-0.54	-0.000772	± 2.5	PASS
	MCH	VL	TN	1.16	0.001640	± 2.5	PASS
		VN	TN	3.35	0.004735	± 2.5	PASS
		VH	TN	-1.16	-0.001640	± 2.5	PASS
	HCH	VL	TN	2.83	0.003956	± 2.5	PASS
		VN	TN	2.72	0.003803	± 2.5	PASS
		VH	TN	-1.64	-0.002293	± 2.5	PASS
16QAM	LCH	VL	TN	-1.38	-0.001972	± 2.5	PASS
		VN	TN	2.55	0.003644	± 2.5	PASS
		VH	TN	-1.3	-0.001858	± 2.5	PASS
	MCH	VL	TN	2.89	0.004085	± 2.5	PASS
		VN	TN	-1.32	-0.001866	± 2.5	PASS
		VH	TN	2.54	0.003590	± 2.5	PASS
	HCH	VL	TN	1.8	0.002516	± 2.5	PASS
		VN	TN	2.82	0.003942	± 2.5	PASS
		VH	TN	4.59	0.006417	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	1.18	0.001686	± 2.5	PASS
		VN	-20	4.47	0.006388	± 2.5	PASS
		VN	-10	4.1	0.005860	± 2.5	PASS
		VN	0	0.51	0.000729	± 2.5	PASS
		VN	10	4.61	0.006589	± 2.5	PASS
		VN	20	-1.02	-0.001458	± 2.5	PASS
		VN	30	4.37	0.006246	± 2.5	PASS
		VN	40	4.29	0.006131	± 2.5	PASS
		VN	50	2.78	0.003973	± 2.5	PASS
	MCH	VN	-30	2.05	0.002898	± 2.5	PASS
		VN	-20	1.79	0.002530	± 2.5	PASS

		VN	-10	3.35	0.004735	± 2.5	PASS
		VN	0	-0.69	-0.000975	± 2.5	PASS
		VN	10	-0.98	-0.001385	± 2.5	PASS
		VN	20	2.42	0.003420	± 2.5	PASS
		VN	30	1.85	0.002615	± 2.5	PASS
		VN	40	0.58	0.000820	± 2.5	PASS
		VN	50	1.54	0.002177	± 2.5	PASS
	HCH	VN	-30	1.04	0.001454	± 2.5	PASS
		VN	-20	-0.94	-0.001314	± 2.5	PASS
		VN	-10	3.63	0.005075	± 2.5	PASS
		VN	0	4.94	0.006906	± 2.5	PASS
		VN	10	-0.45	-0.000629	± 2.5	PASS
		VN	20	2.04	0.002852	± 2.5	PASS
		VN	30	-0.84	-0.001174	± 2.5	PASS
		VN	40	3.8	0.005312	± 2.5	PASS
		VN	50	4.27	0.005970	± 2.5	PASS
16QAM	LCH	VN	-30	1.06	0.001515	± 2.5	PASS
		VN	-20	-1.01	-0.001443	± 2.5	PASS
		VN	-10	-1.37	-0.001958	± 2.5	PASS
		VN	0	0.97	0.001386	± 2.5	PASS
		VN	10	0.35	0.000500	± 2.5	PASS
		VN	20	4.48	0.006403	± 2.5	PASS
		VN	30	2.69	0.003845	± 2.5	PASS
		VN	40	3.11	0.004445	± 2.5	PASS
		VN	50	1.92	0.002744	± 2.5	PASS
	MCH	VN	-30	4.99	0.007053	± 2.5	PASS
		VN	-20	3.72	0.005258	± 2.5	PASS
		VN	-10	-0.37	-0.000523	± 2.5	PASS
		VN	0	-1.82	-0.002572	± 2.5	PASS
		VN	10	-1.89	-0.002671	± 2.5	PASS
		VN	20	4.95	0.006996	± 2.5	PASS
		VN	30	-0.16	-0.000226	± 2.5	PASS
		VN	40	4.35	0.006148	± 2.5	PASS
		VN	50	-0.03	-0.000042	± 2.5	PASS
	HCH	VN	-30	2.44	0.003411	± 2.5	PASS
		VN	-20	3.16	0.004418	± 2.5	PASS
		VN	-10	0.45	0.000629	± 2.5	PASS
		VN	0	4.24	0.005928	± 2.5	PASS
		VN	10	0.81	0.001132	± 2.5	PASS
		VN	20	1.62	0.002265	± 2.5	PASS
		VN	30	-0.4	-0.000559	± 2.5	PASS

		VN	40	4.07	0.005690	± 2.5	PASS
		VN	50	3.46	0.004837	± 2.5	PASS

Channel Bandwidth: 3 MHz

Channel Bandwidth: 3 MHz+							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	2.88	0.004111	± 2.5	PASS
		VN	TN	1.94	0.002769	± 2.5	PASS
		VH	TN	1.5	0.002141	± 2.5	PASS
	MCH	VL	TN	0.46	0.000650	± 2.5	PASS
		VN	TN	-1.8	-0.002544	± 2.5	PASS
		VH	TN	1.39	0.001965	± 2.5	PASS
	HCH	VL	TN	1.71	0.002393	± 2.5	PASS
		VN	TN	0.95	0.001330	± 2.5	PASS
		VH	TN	-0.1	-0.000140	± 2.5	PASS
16QAM	LCH	VL	TN	0.23	0.000328	± 2.5	PASS
		VN	TN	0.5	0.000714	± 2.5	PASS
		VH	TN	3.63	0.005182	± 2.5	PASS
	MCH	VL	TN	0.11	0.000155	± 2.5	PASS
		VN	TN	-0.77	-0.001088	± 2.5	PASS
		VH	TN	4.09	0.005781	± 2.5	PASS
	HCH	VL	TN	4.76	0.006662	± 2.5	PASS
		VN	TN	0.4	0.000560	± 2.5	PASS
		VH	TN	0.28	0.000392	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	3.13	0.004468	± 2.5	PASS
		VN	-20	4.09	0.005839	± 2.5	PASS
		VN	-10	0.81	0.001156	± 2.5	PASS
		VN	0	3.73	0.005325	± 2.5	PASS
		VN	10	3.58	0.005111	± 2.5	PASS
		VN	20	-1.64	-0.002341	± 2.5	PASS
		VN	30	2.97	0.004240	± 2.5	PASS
		VN	40	3.03	0.004325	± 2.5	PASS
		VN	50	-1.45	-0.002070	± 2.5	PASS
	MCH	VN	-30	0.18	0.000254	± 2.5	PASS
		VN	-20	4.33	0.006120	± 2.5	PASS
		VN	-10	1.98	0.002799	± 2.5	PASS

		VN	0	3.76	0.005314	± 2.5	PASS
		VN	10	3.99	0.005640	± 2.5	PASS
		VN	20	-1.25	-0.001767	± 2.5	PASS
		VN	30	0.91	0.001286	± 2.5	PASS
		VN	40	1.47	0.002078	± 2.5	PASS
		VN	50	1.42	0.002007	± 2.5	PASS
	HCH	VN	-30	3.7	0.005178	± 2.5	PASS
		VN	-20	1.23	0.001721	± 2.5	PASS
		VN	-10	4.19	0.005864	± 2.5	PASS
		VN	0	1.99	0.002785	± 2.5	PASS
		VN	10	0.06	0.000084	± 2.5	PASS
		VN	20	-0.05	-0.000070	± 2.5	PASS
		VN	30	4.71	0.006592	± 2.5	PASS
		VN	40	-0.33	-0.000462	± 2.5	PASS
		VN	50	0.75	0.001050	± 2.5	PASS
16QAM	LCH	VN	-30	1.51	0.002156	± 2.5	PASS
		VN	-20	3.93	0.005610	± 2.5	PASS
		VN	-10	-0.48	-0.000685	± 2.5	PASS
		VN	0	-1.68	-0.002398	± 2.5	PASS
		VN	10	-1.16	-0.001656	± 2.5	PASS
		VN	20	-0.09	-0.000128	± 2.5	PASS
		VN	30	-0.77	-0.001099	± 2.5	PASS
		VN	40	0.81	0.001156	± 2.5	PASS
		VN	50	2.05	0.002926	± 2.5	PASS
	MCH	VN	-30	3.29	0.004650	± 2.5	PASS
		VN	-20	1.52	0.002148	± 2.5	PASS
		VN	-10	-0.49	-0.000693	± 2.5	PASS
		VN	0	2.49	0.003519	± 2.5	PASS
		VN	10	-1.55	-0.002191	± 2.5	PASS
		VN	20	0.68	0.000961	± 2.5	PASS
		VN	30	0.42	0.000594	± 2.5	PASS
		VN	40	4.6	0.006502	± 2.5	PASS
		VN	50	-0.23	-0.000325	± 2.5	PASS
	HCH	VN	-30	4.93	0.006900	± 2.5	PASS
		VN	-20	2.88	0.004031	± 2.5	PASS
		VN	-10	-1.55	-0.002169	± 2.5	PASS
		VN	0	2.26	0.003163	± 2.5	PASS
		VN	10	2.7	0.003779	± 2.5	PASS
		VN	20	-1.76	-0.002463	± 2.5	PASS
		VN	30	3.58	0.005010	± 2.5	PASS
		VN	40	4.15	0.005808	± 2.5	PASS

		VN	50	3.16	0.004423	± 2.5	PASS
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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	3.51	0.005004	± 2.5	PASS
		VN	TN	4.4	0.006272	± 2.5	PASS
		VH	TN	1.67	0.002381	± 2.5	PASS
	MCH	VL	TN	1.53	0.002163	± 2.5	PASS
		VN	TN	-1.45	-0.002049	± 2.5	PASS
		VH	TN	-1.89	-0.002671	± 2.5	PASS
	HCH	VL	TN	-1.04	-0.001458	± 2.5	PASS
		VN	TN	-1.34	-0.001878	± 2.5	PASS
		VH	TN	0.28	0.000392	± 2.5	PASS
16QAM	LCH	VL	TN	2.75	0.003920	± 2.5	PASS
		VN	TN	1.29	0.001839	± 2.5	PASS
		VH	TN	3.51	0.005004	± 2.5	PASS
	MCH	VL	TN	4.36	0.006163	± 2.5	PASS
		VN	TN	1.66	0.002346	± 2.5	PASS
		VH	TN	1.94	0.002742	± 2.5	PASS
	HCH	VL	TN	4.83	0.006769	± 2.5	PASS
		VN	TN	4.83	0.006769	± 2.5	PASS
		VH	TN	4.7	0.006587	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	3.1	0.004419	± 2.5	PASS
		VN	-20	2.81	0.004006	± 2.5	PASS
		VN	-10	1.41	0.002010	± 2.5	PASS
		VN	0	3.58	0.005103	± 2.5	PASS
		VN	10	0.57	0.000813	± 2.5	PASS
		VN	20	3.95	0.005631	± 2.5	PASS
		VN	30	0.73	0.001041	± 2.5	PASS
		VN	40	4.5	0.006415	± 2.5	PASS
		VN	50	4.3	0.006130	± 2.5	PASS
	MCH	VN	-30	4.39	0.006205	± 2.5	PASS
		VN	-20	4.13	0.005837	± 2.5	PASS
		VN	-10	-1.23	-0.001739	± 2.5	PASS
		VN	0	1.25	0.001767	± 2.5	PASS

		VN	10	0.33	0.000466	± 2.5	PASS
		VN	20	-1.47	-0.002078	± 2.5	PASS
		VN	30	1.36	0.001922	± 2.5	PASS
		VN	40	-0.49	-0.000693	± 2.5	PASS
		VN	50	3.1	0.004382	± 2.5	PASS
	HCH	VN	-30	-0.68	-0.000953	± 2.5	PASS
		VN	-20	1.81	0.002537	± 2.5	PASS
		VN	-10	3.63	0.005088	± 2.5	PASS
		VN	0	-0.72	-0.001009	± 2.5	PASS
		VN	10	4.81	0.006741	± 2.5	PASS
		VN	20	1.93	0.002705	± 2.5	PASS
		VN	30	3.9	0.005466	± 2.5	PASS
		VN	40	4.58	0.006419	± 2.5	PASS
		VN	50	2.01	0.002817	± 2.5	PASS
		VN	-30	-1.18	-0.001682	± 2.5	PASS
16QAM	LCH	VN	-20	-1.72	-0.002452	± 2.5	PASS
		VN	-10	0.8	0.001140	± 2.5	PASS
		VN	0	1.26	0.001796	± 2.5	PASS
		VN	10	-0.46	-0.000656	± 2.5	PASS
		VN	20	4	0.005702	± 2.5	PASS
		VN	30	-1.32	-0.001882	± 2.5	PASS
		VN	40	2.07	0.002951	± 2.5	PASS
		VN	50	2.81	0.004006	± 2.5	PASS
	MCH	VN	-30	0.39	0.000551	± 2.5	PASS
		VN	-20	4.31	0.006092	± 2.5	PASS
		VN	-10	3.63	0.005131	± 2.5	PASS
		VN	0	4.05	0.005724	± 2.5	PASS
		VN	10	-0.36	-0.000509	± 2.5	PASS
		VN	20	3.9	0.005512	± 2.5	PASS
		VN	30	-1.52	-0.002148	± 2.5	PASS
		VN	40	0.45	0.000636	± 2.5	PASS
		VN	50	4.31	0.006092	± 2.5	PASS
	HCH	VN	-30	2.73	0.003826	± 2.5	PASS
		VN	-20	4.4	0.006167	± 2.5	PASS
		VN	-10	2.01	0.002817	± 2.5	PASS
		VN	0	0.67	0.000939	± 2.5	PASS
		VN	10	2.73	0.003826	± 2.5	PASS
		VN	20	3.28	0.004597	± 2.5	PASS
		VN	30	1.26	0.001766	± 2.5	PASS
		VN	40	3.54	0.004961	± 2.5	PASS
		VN	50	1.6	0.002242	± 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	0.67	0.000952	± 2.5	PASS
		VN	TN	3.31	0.004702	± 2.5	PASS
		VH	TN	4.25	0.006037	± 2.5	PASS
	MCH	VL	TN	2.09	0.002954	± 2.5	PASS
		VN	TN	4.67	0.006601	± 2.5	PASS
		VH	TN	-1.69	-0.002389	± 2.5	PASS
	HCH	VL	TN	2.58	0.003629	± 2.5	PASS
		VN	TN	-1.21	-0.001702	± 2.5	PASS
		VH	TN	-1.48	-0.002082	± 2.5	PASS
16QAM	LCH	VL	TN	3.62	0.005142	± 2.5	PASS
		VN	TN	2.99	0.004247	± 2.5	PASS
		VH	TN	0.12	0.000170	± 2.5	PASS
	MCH	VL	TN	0.3	0.000424	± 2.5	PASS
		VN	TN	4.64	0.006558	± 2.5	PASS
		VH	TN	-0.31	-0.000438	± 2.5	PASS
	HCH	VL	TN	4.98	0.007004	± 2.5	PASS
		VN	TN	3.6	0.005063	± 2.5	PASS
		VH	TN	-1.22	-0.001716	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	4.84	0.006875	± 2.5	PASS
		VN	-20	1.54	0.002188	± 2.5	PASS
		VN	-10	4.58	0.006506	± 2.5	PASS
		VN	0	0.39	0.000554	± 2.5	PASS
		VN	10	-0.75	-0.001065	± 2.5	PASS
		VN	20	-1.52	-0.002159	± 2.5	PASS
		VN	30	2.72	0.003864	± 2.5	PASS
		VN	40	3.78	0.005369	± 2.5	PASS
		VN	50	0.81	0.001151	± 2.5	PASS
	MCH	VN	-30	2.1	0.002968	± 2.5	PASS
		VN	-20	-0.21	-0.000297	± 2.5	PASS
		VN	-10	3.6	0.005088	± 2.5	PASS
		VN	0	2.19	0.003095	± 2.5	PASS
		VN	10	-1.83	-0.002587	± 2.5	PASS
		VN	20	0.11	0.000155	± 2.5	PASS
		VN	30	0.11	0.000155	± 2.5	PASS

		VN	40	1.03	0.001456	± 2.5	PASS
		VN	50	-0.07	-0.000099	± 2.5	PASS
	HCH	VN	-30	-0.06	-0.000084	± 2.5	PASS
		VN	-20	0.79	0.001111	± 2.5	PASS
		VN	-10	1.3	0.001828	± 2.5	PASS
		VN	0	-1.97	-0.002771	± 2.5	PASS
		VN	10	4.15	0.005837	± 2.5	PASS
		VN	20	2.9	0.004079	± 2.5	PASS
		VN	30	0.54	0.000759	± 2.5	PASS
		VN	40	2.22	0.003122	± 2.5	PASS
		VN	50	1.87	0.002630	± 2.5	PASS
16QAM	LCH	VN	-30	3.52	0.005000	± 2.5	PASS
		VN	-20	-0.93	-0.001321	± 2.5	PASS
		VN	-10	3.33	0.004730	± 2.5	PASS
		VN	0	-0.05	-0.000071	± 2.5	PASS
		VN	10	1.44	0.002045	± 2.5	PASS
		VN	20	0.67	0.000952	± 2.5	PASS
		VN	30	-1.43	-0.002031	± 2.5	PASS
		VN	40	-1.62	-0.002301	± 2.5	PASS
		VN	50	1.48	0.002102	± 2.5	PASS
	MCH	VN	-30	4.17	0.005894	± 2.5	PASS
		VN	-20	-0.79	-0.001117	± 2.5	PASS
		VN	-10	-0.45	-0.000636	± 2.5	PASS
		VN	0	-1.11	-0.001569	± 2.5	PASS
		VN	10	1.31	0.001852	± 2.5	PASS
		VN	20	2.74	0.003873	± 2.5	PASS
		VN	30	-1.67	-0.002360	± 2.5	PASS
		VN	40	-1.78	-0.002516	± 2.5	PASS
		VN	50	-1.42	-0.002007	± 2.5	PASS
	HCH	VN	-30	0.51	0.000717	± 2.5	PASS
		VN	-20	-1.11	-0.001561	± 2.5	PASS
		VN	-10	2.35	0.003305	± 2.5	PASS
		VN	0	-1.81	-0.002546	± 2.5	PASS
		VN	10	-1.34	-0.001885	± 2.5	PASS
		VN	20	1.13	0.001589	± 2.5	PASS
		VN	30	4.24	0.005963	± 2.5	PASS
		VN	40	0.83	0.001167	± 2.5	PASS
		VN	50	4.97	0.006990	± 2.5	PASS