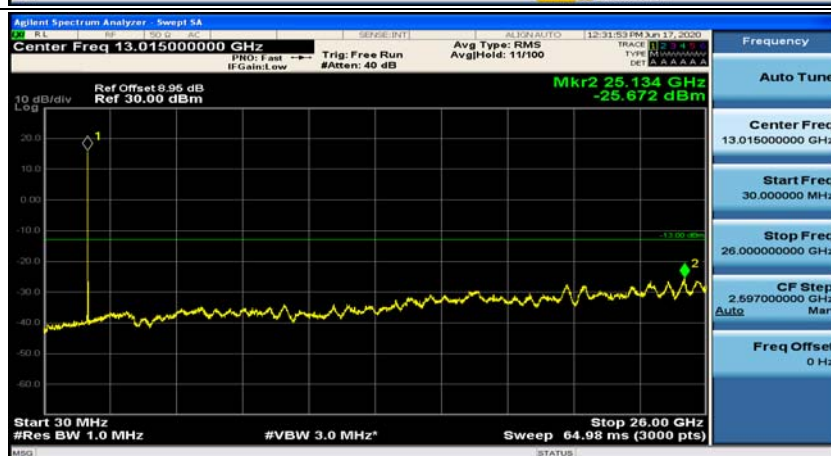
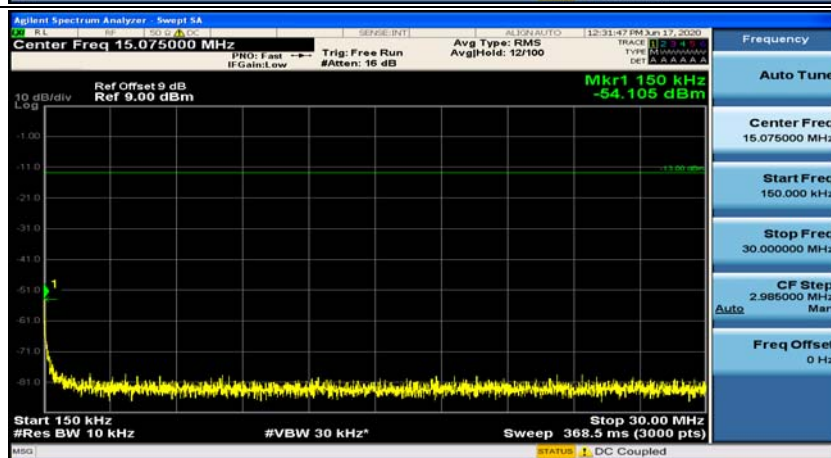
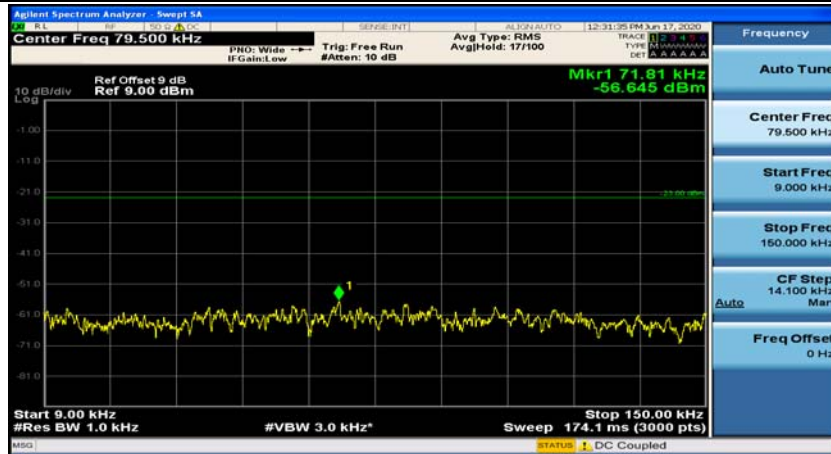
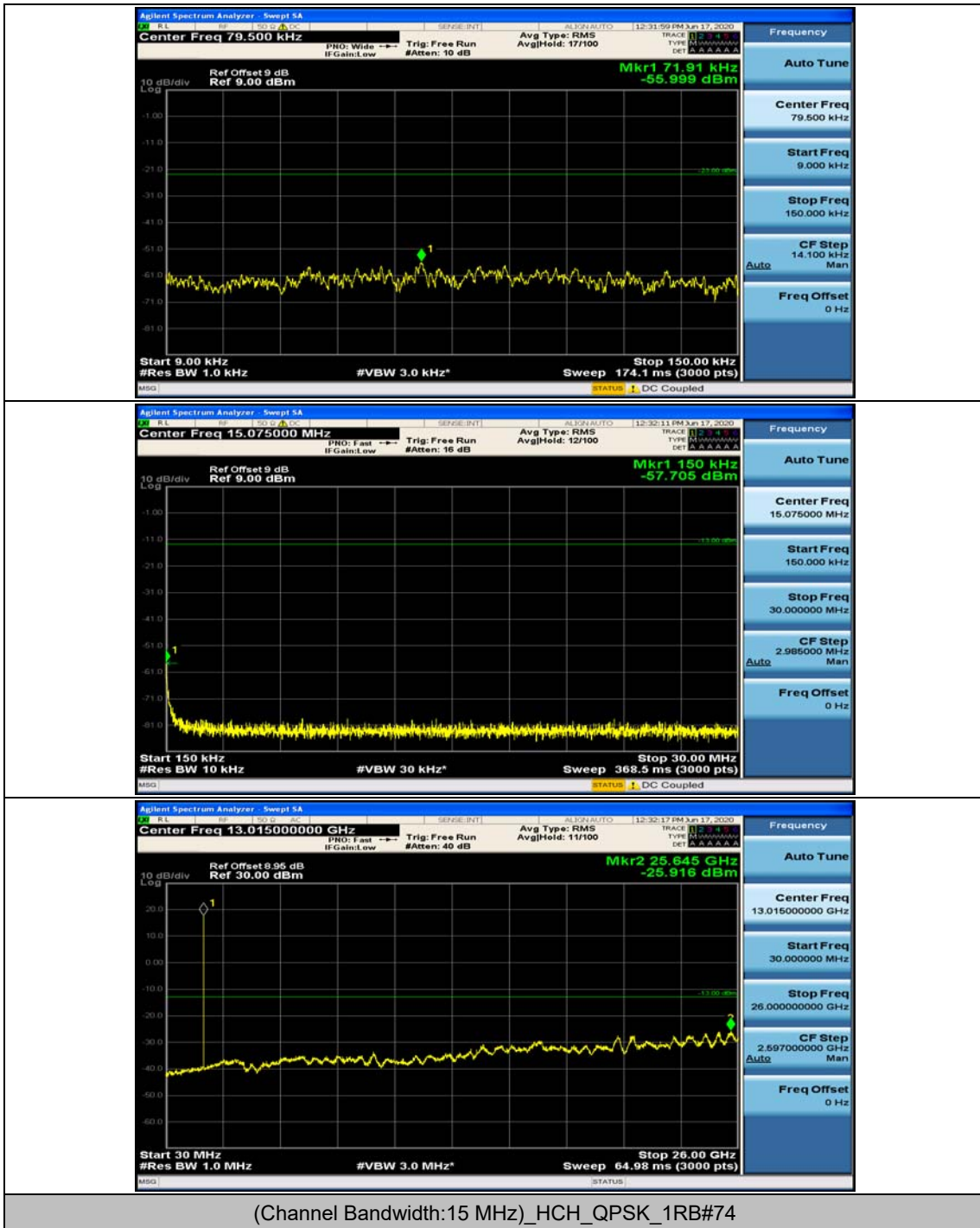
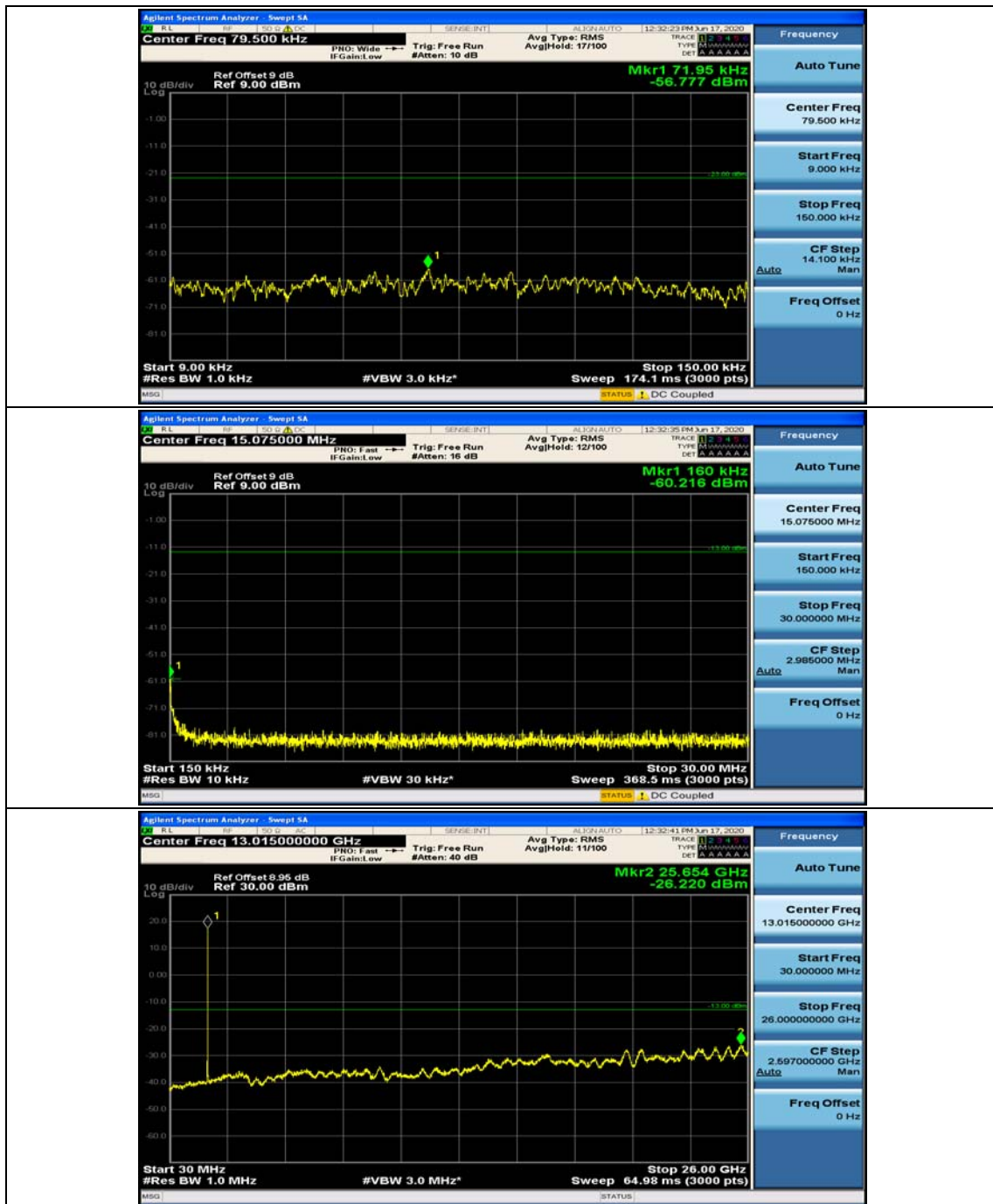


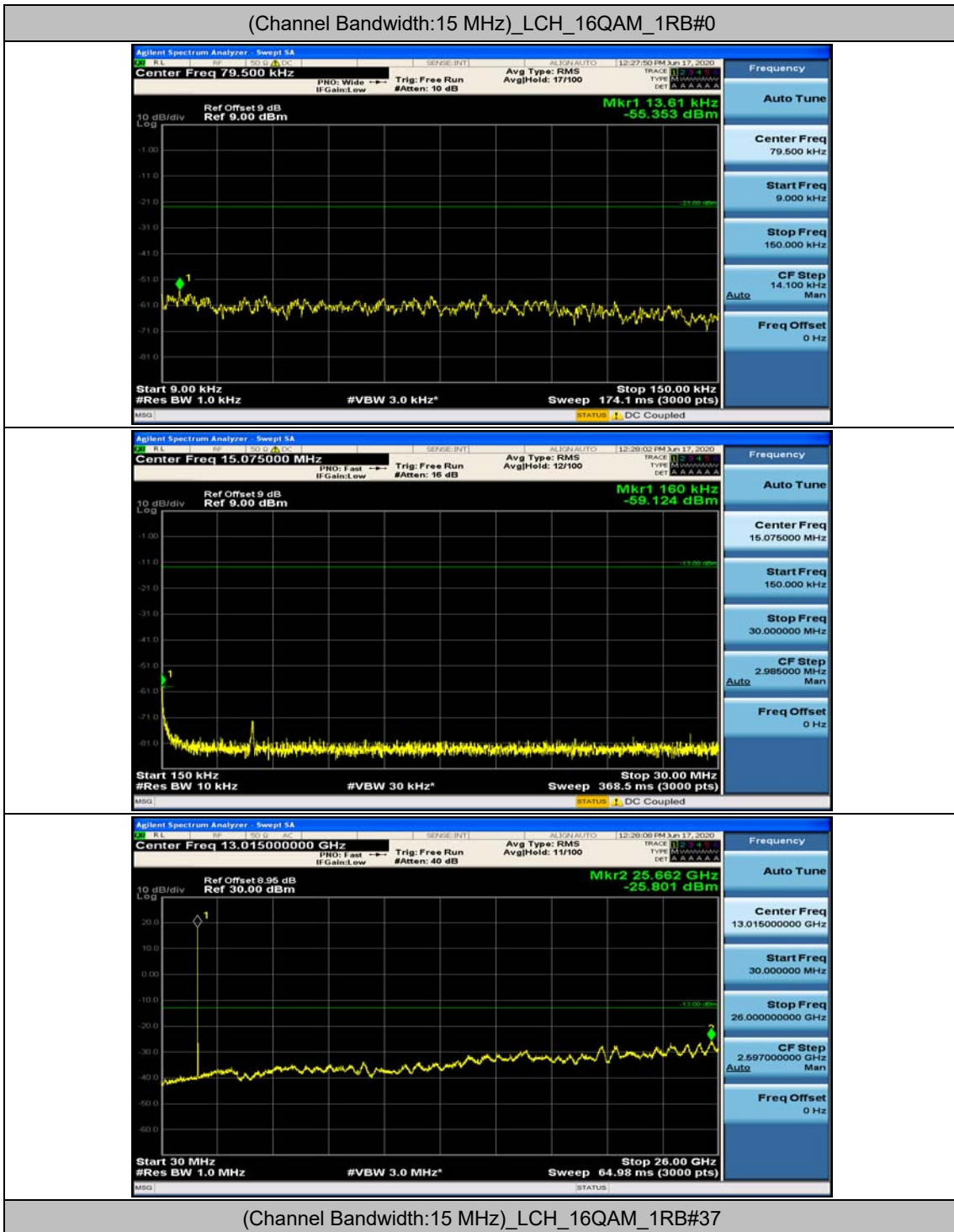
(Channel Bandwidth:15 MHz)_HCH_QPSK_1RB#0

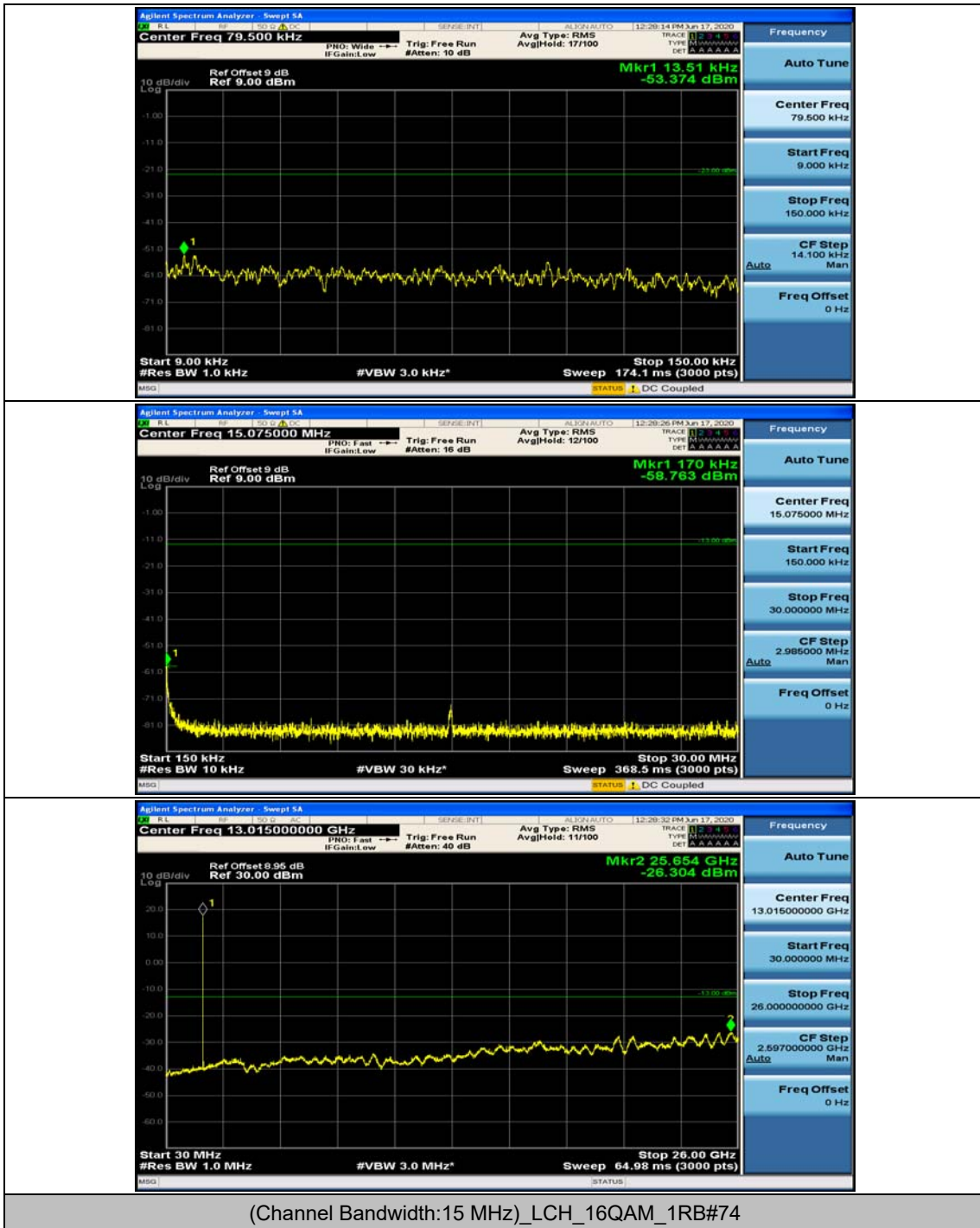


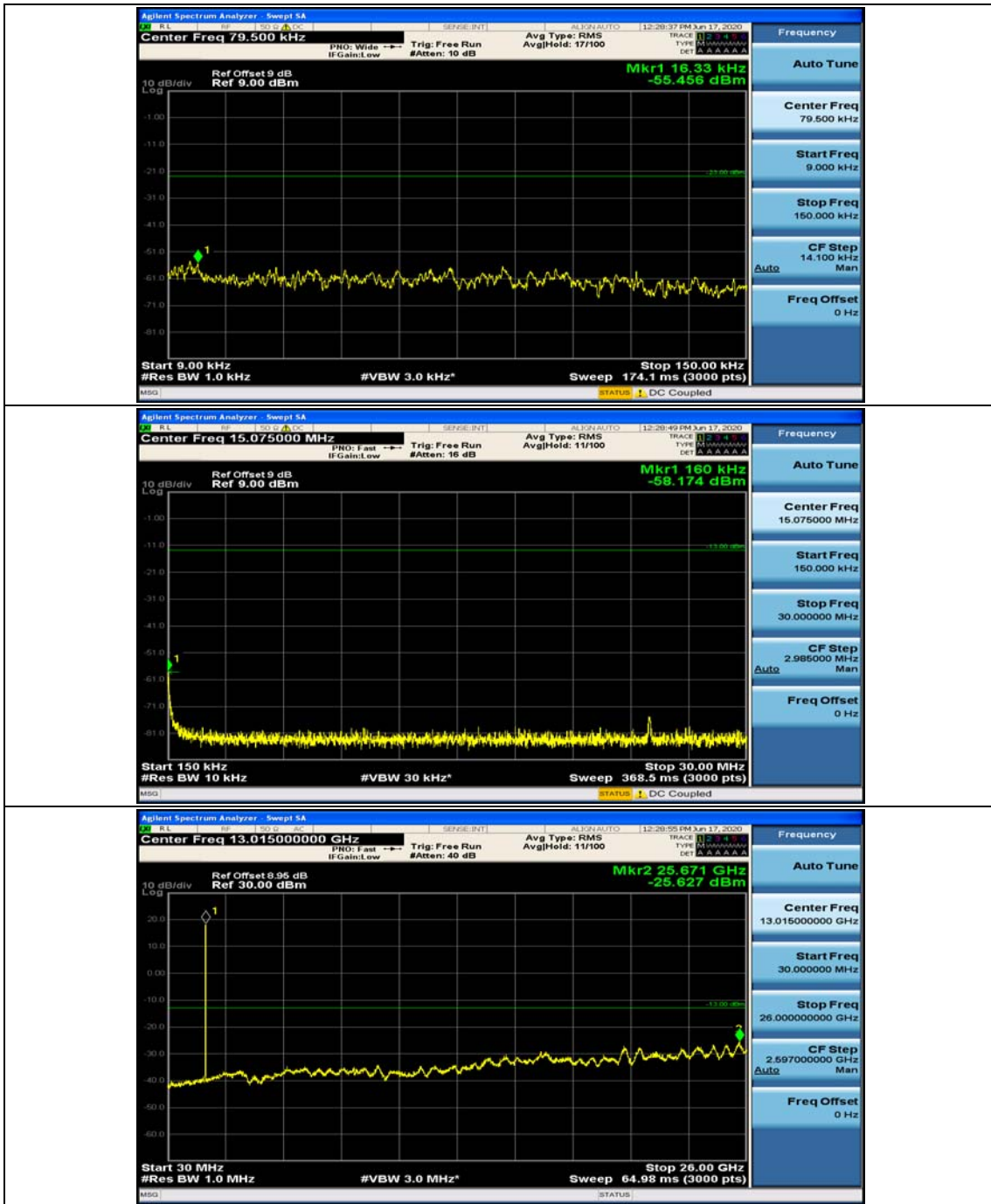
(Channel Bandwidth:15 MHz)_HCH_QPSK_1RB#37



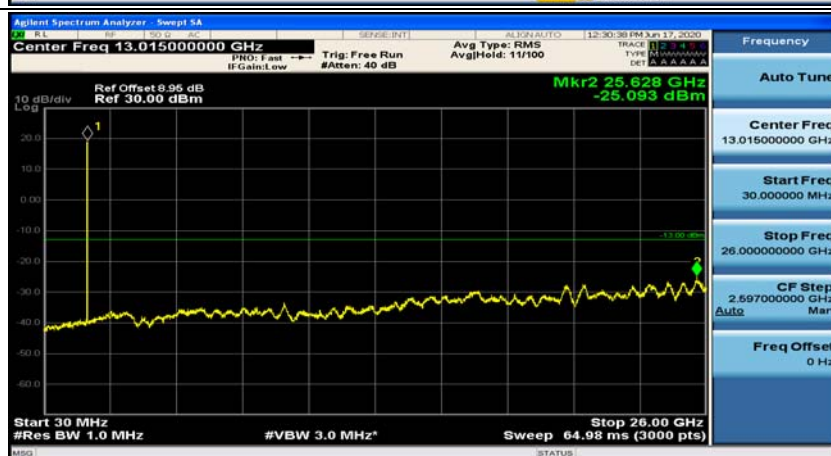
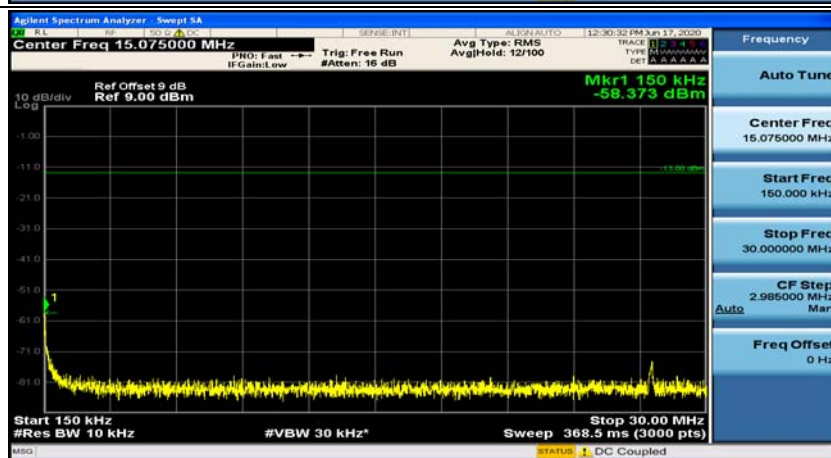
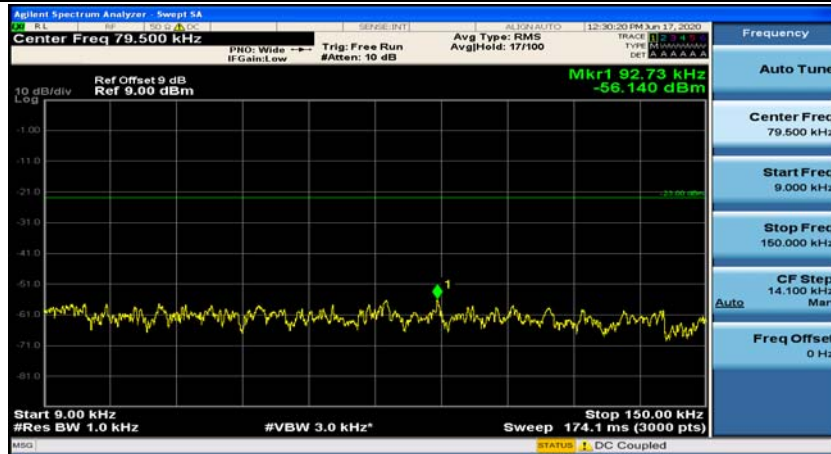




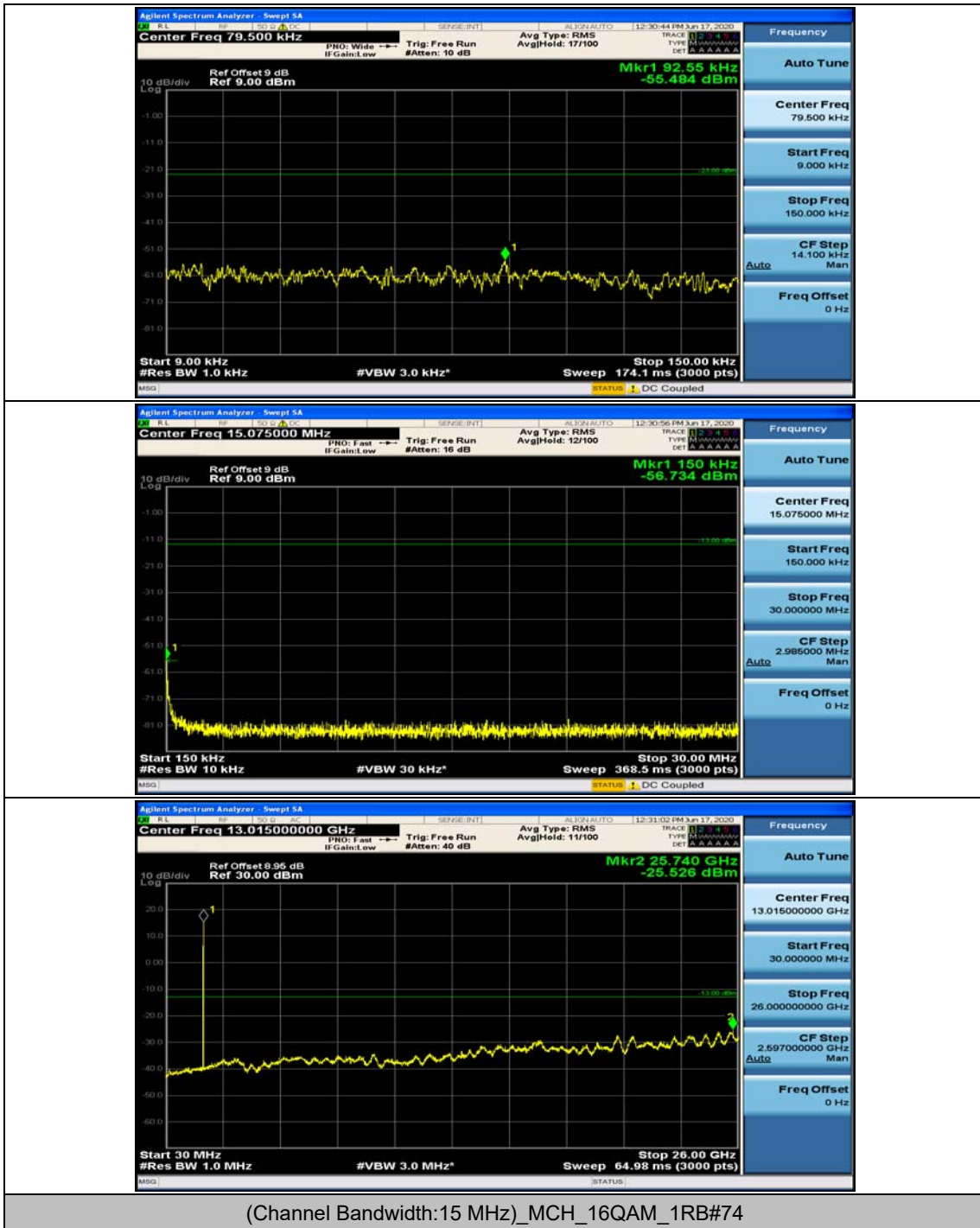


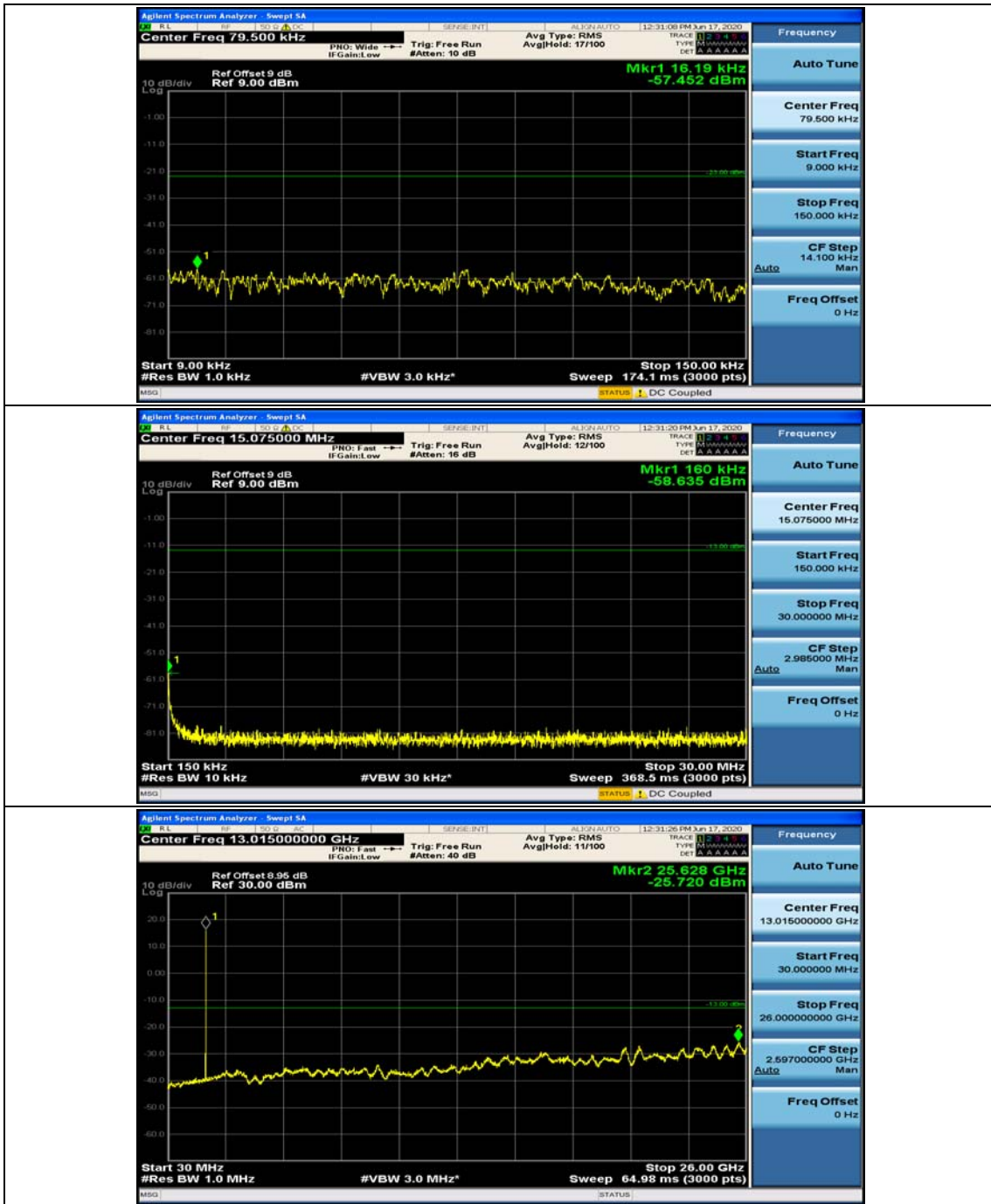


(Channel Bandwidth:15 MHz)_MCH_16QAM_1RB#0

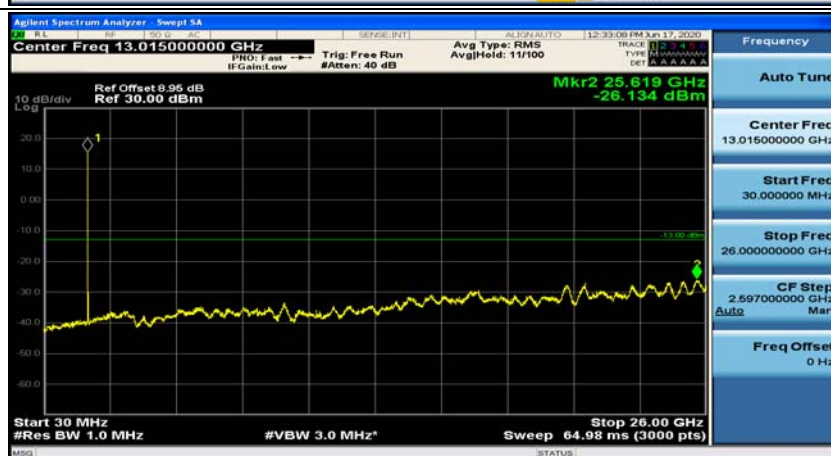
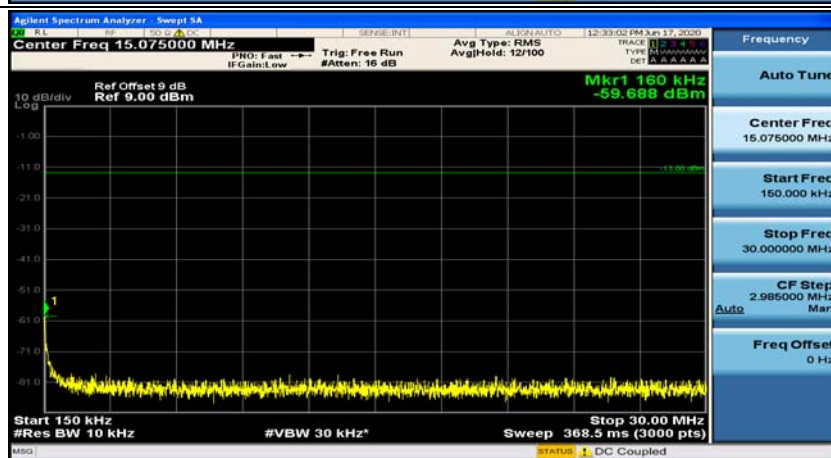
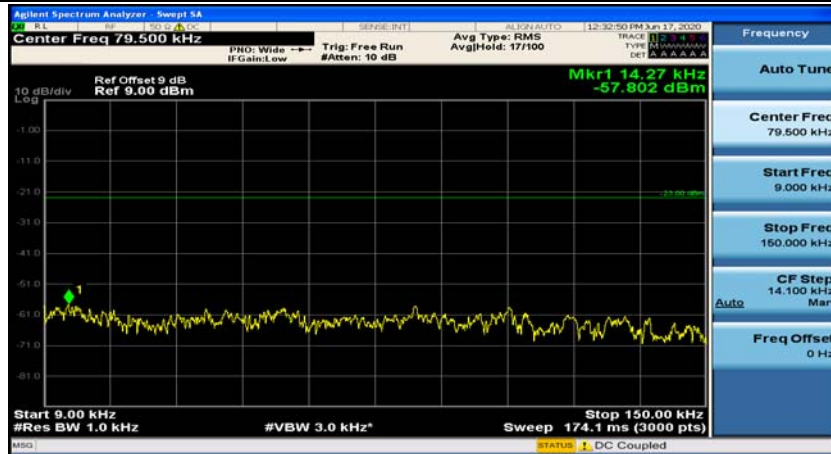


(Channel Bandwidth:15 MHz)_MCH_16QAM_1RB#37

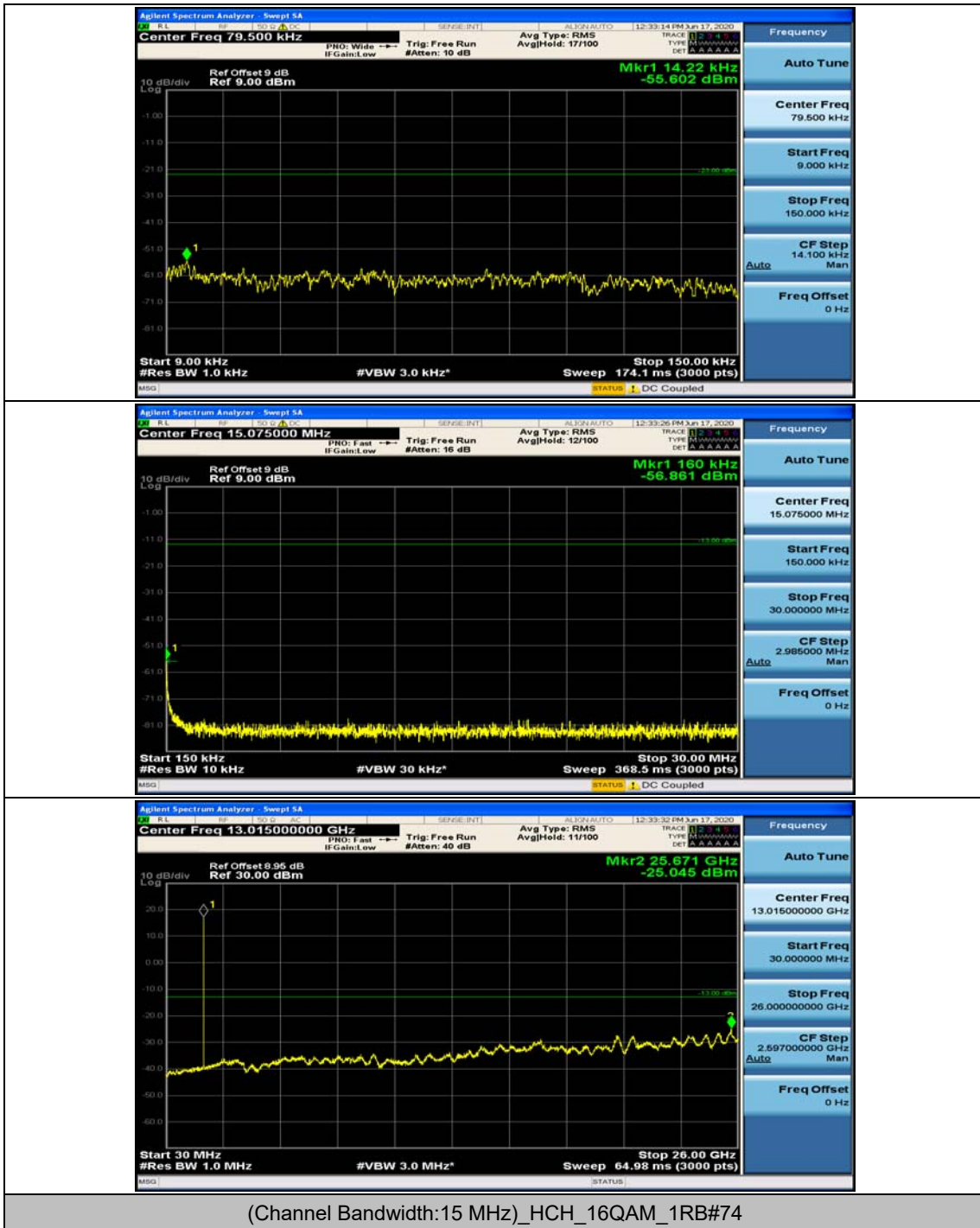


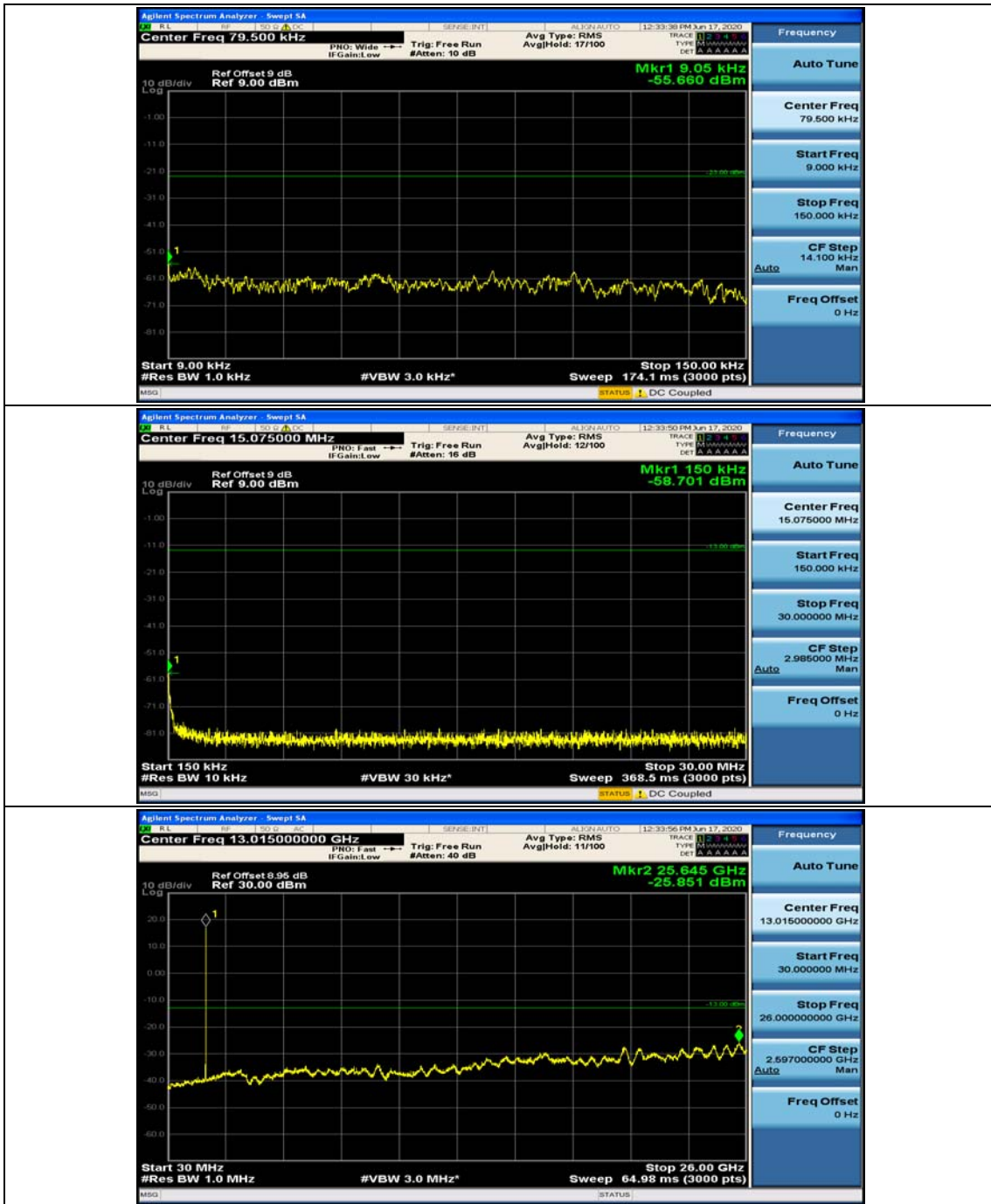


(Channel Bandwidth:15 MHz)_HCH_16QAM_1RB#0

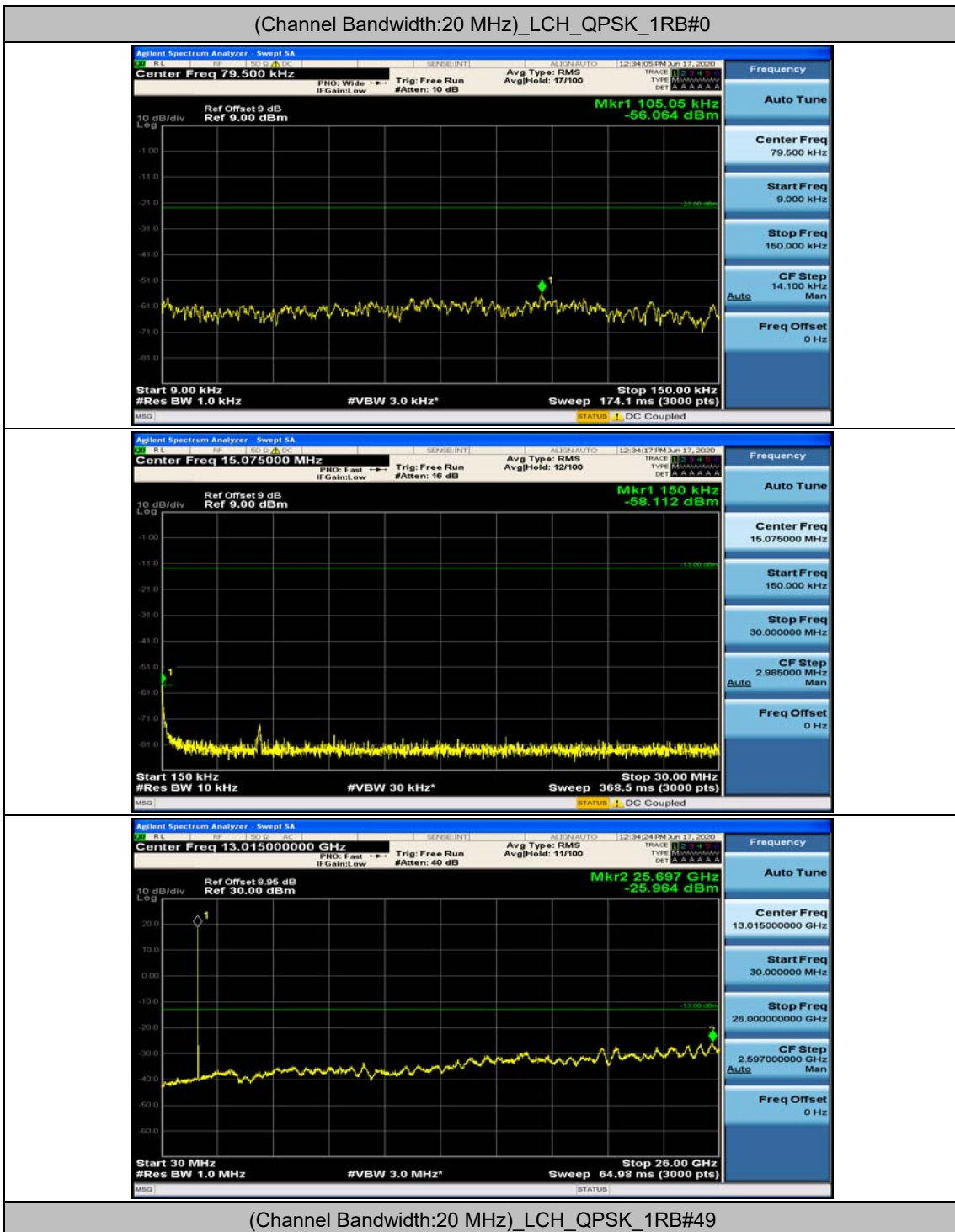


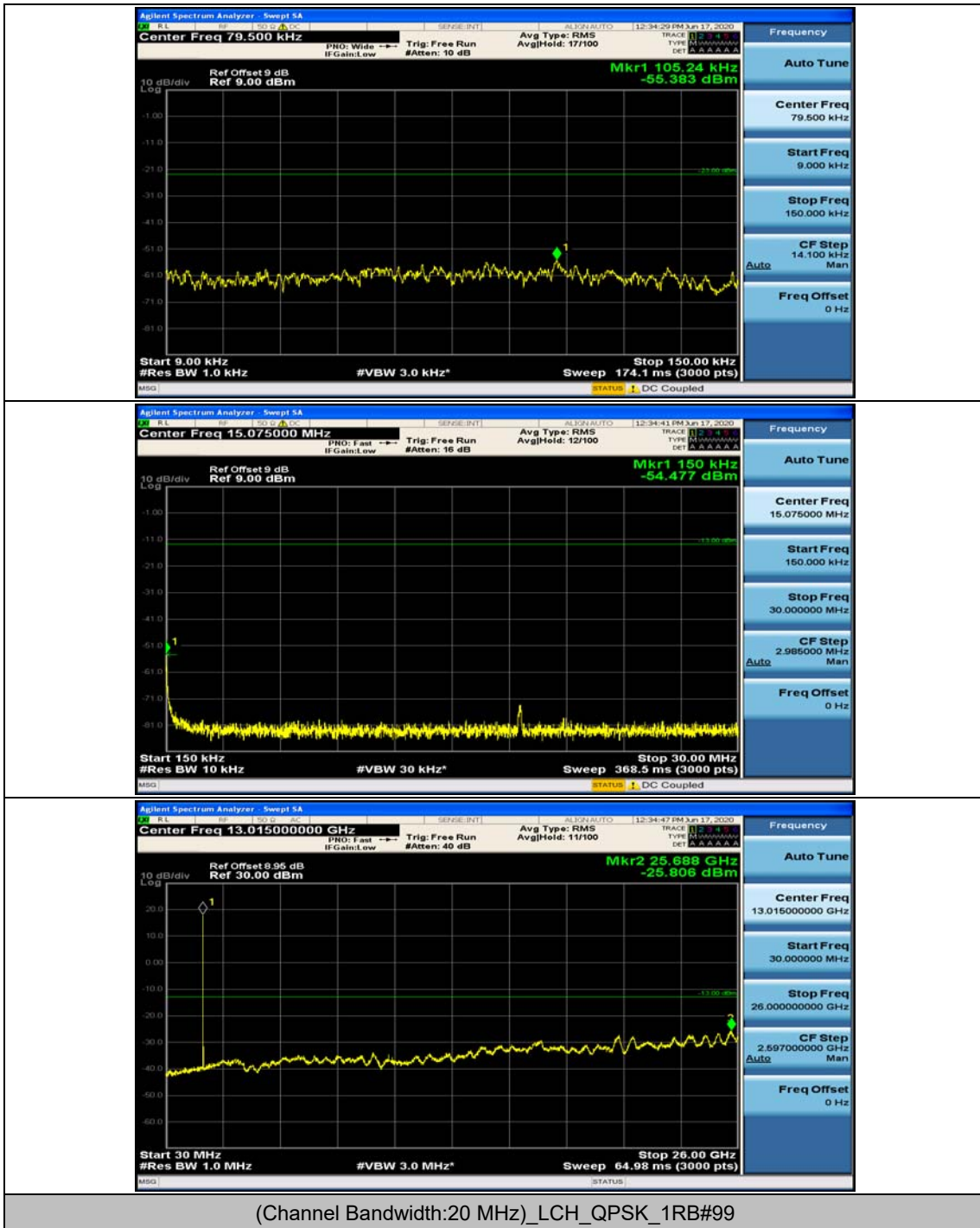
(Channel Bandwidth:15 MHz)_HCH_16QAM_1RB#37

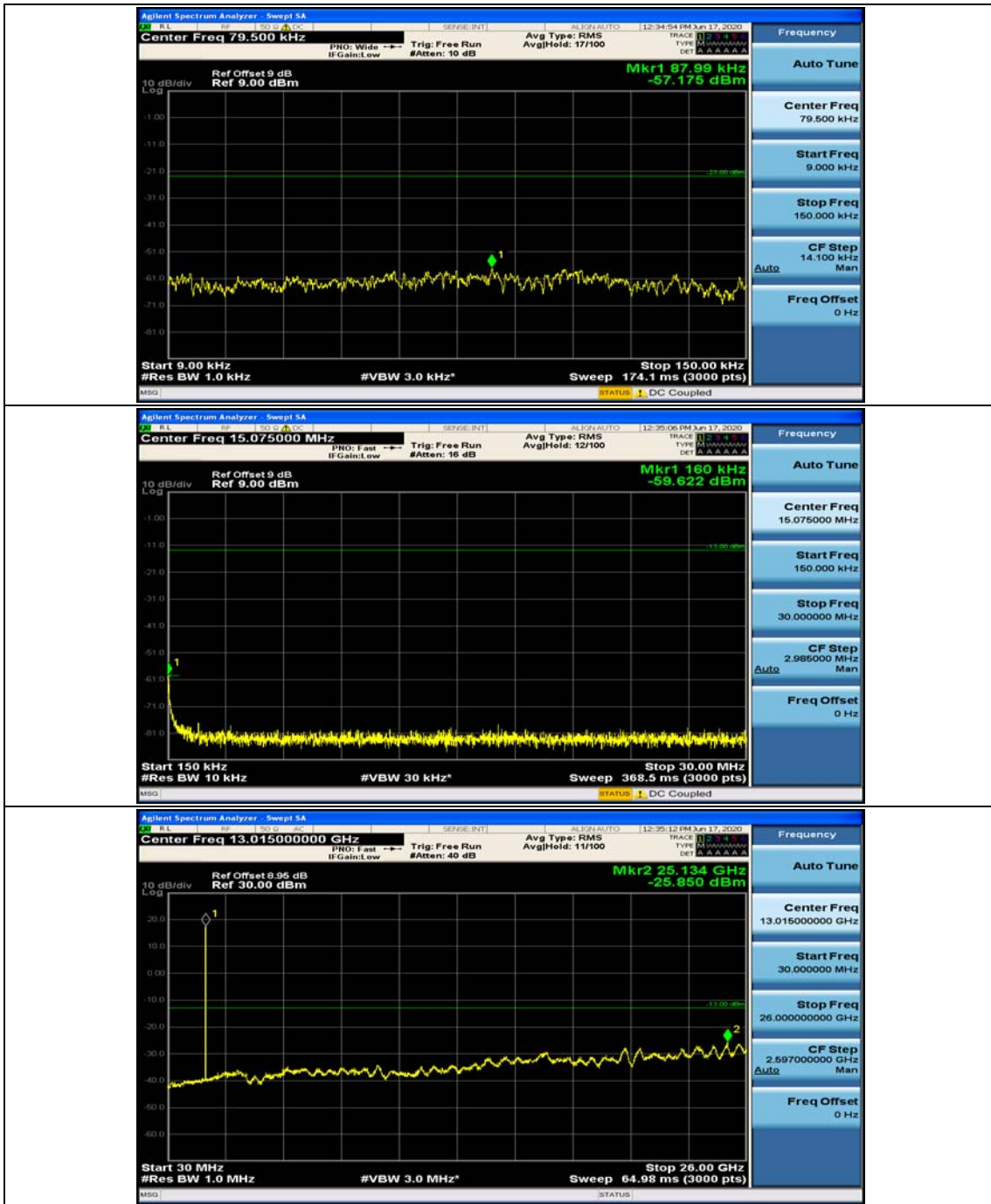


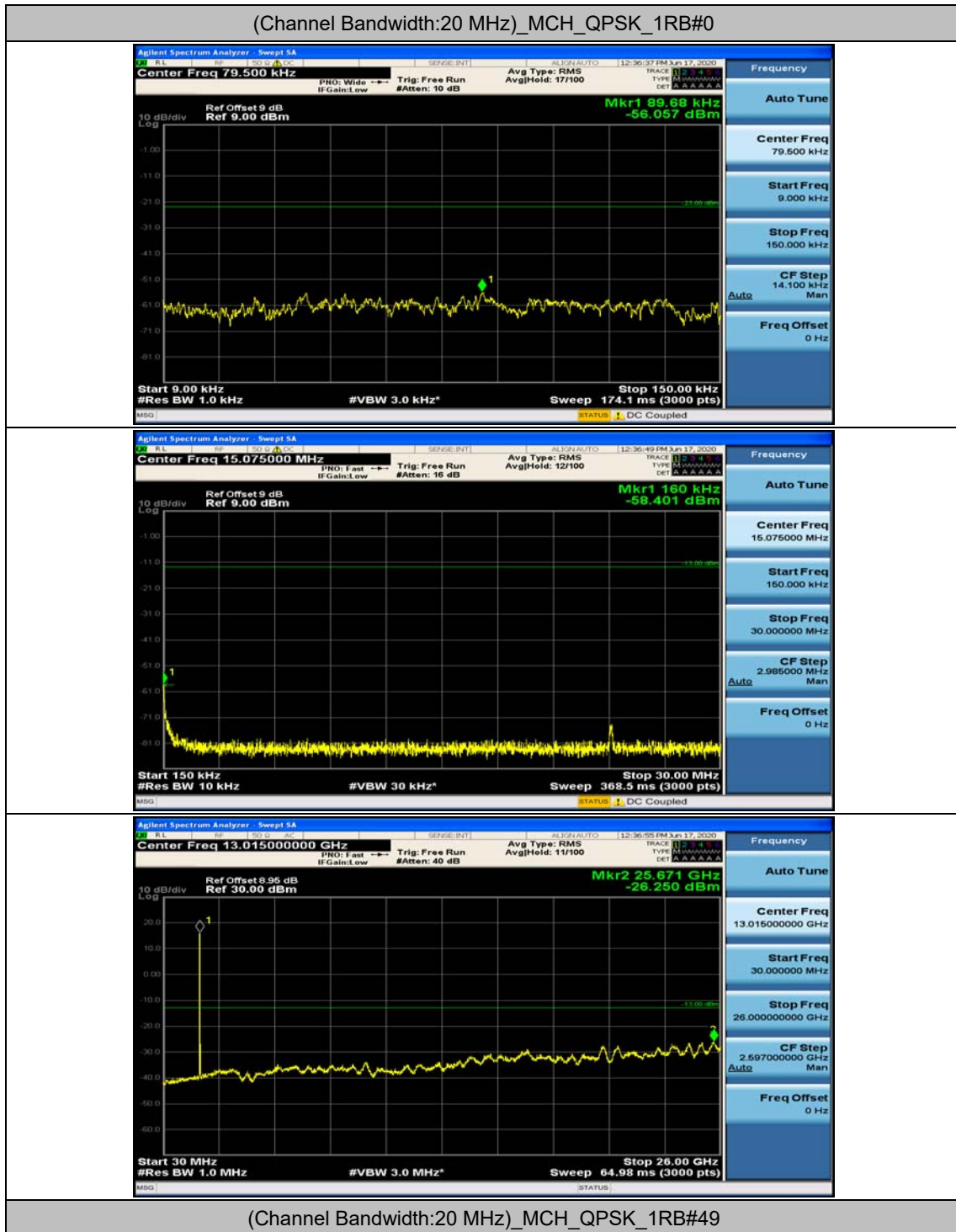


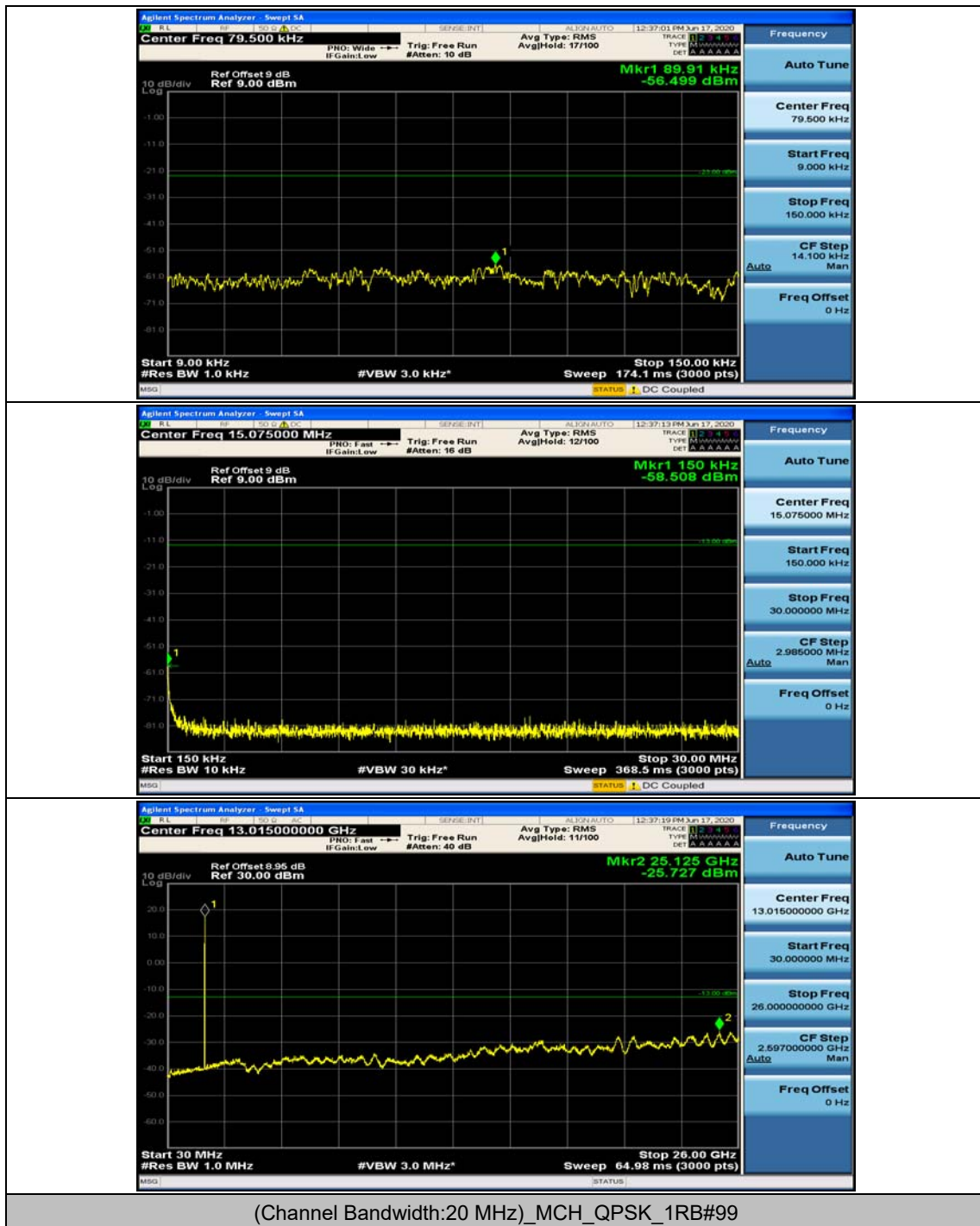
Channel Bandwidth: 20 MHz

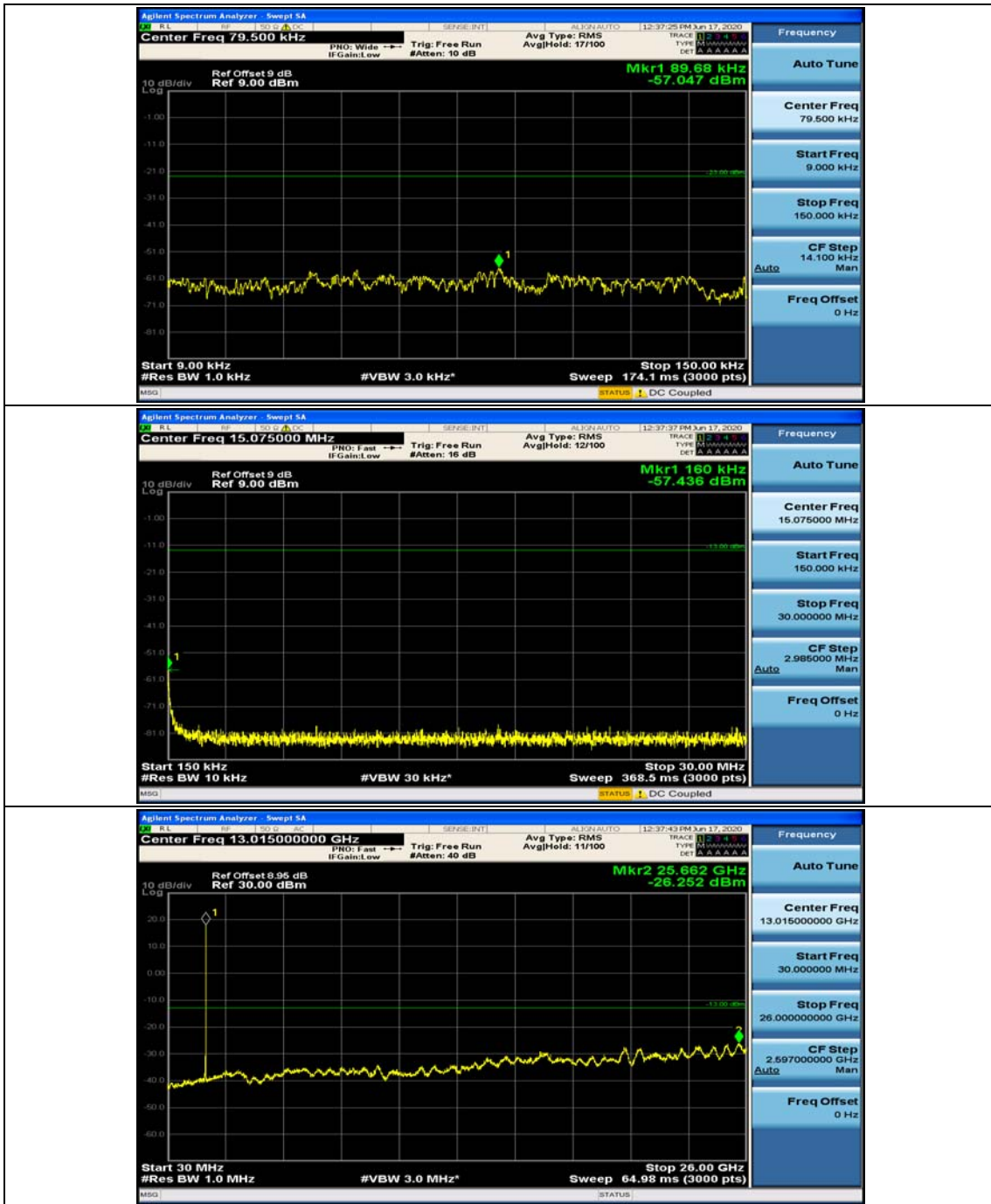




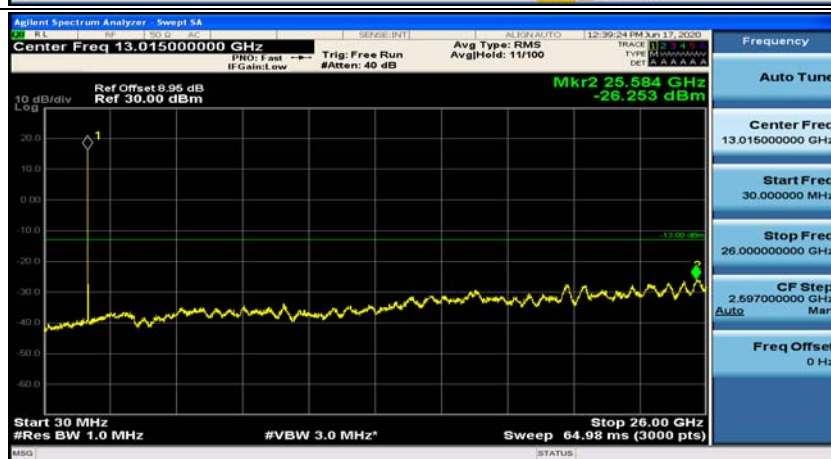
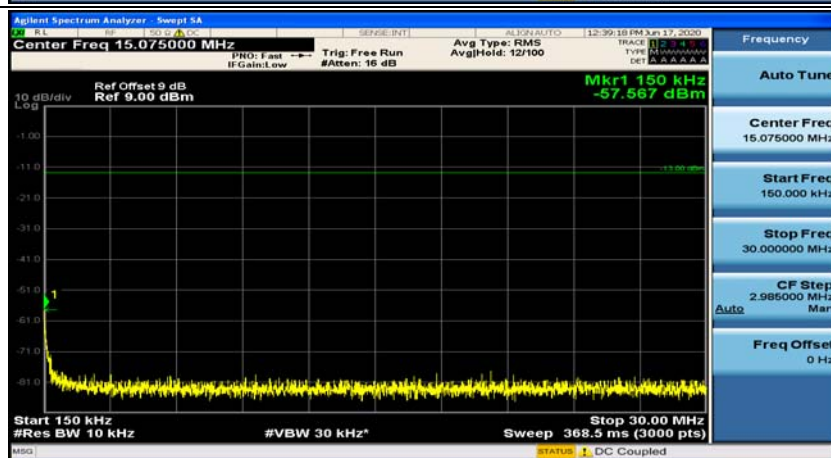
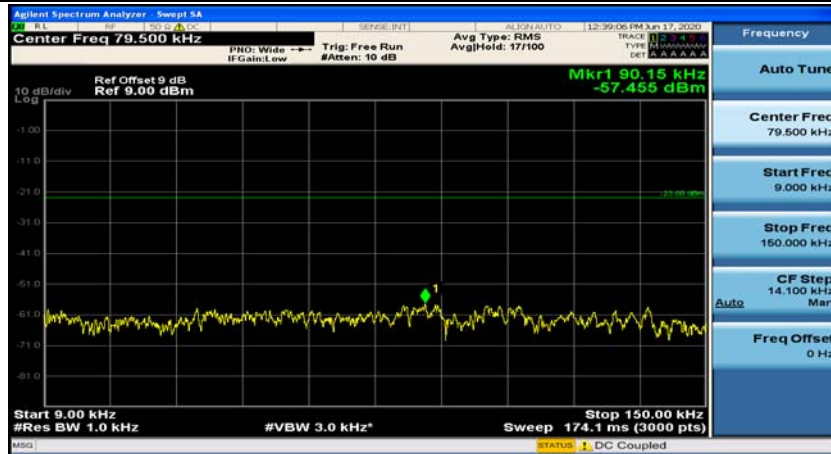




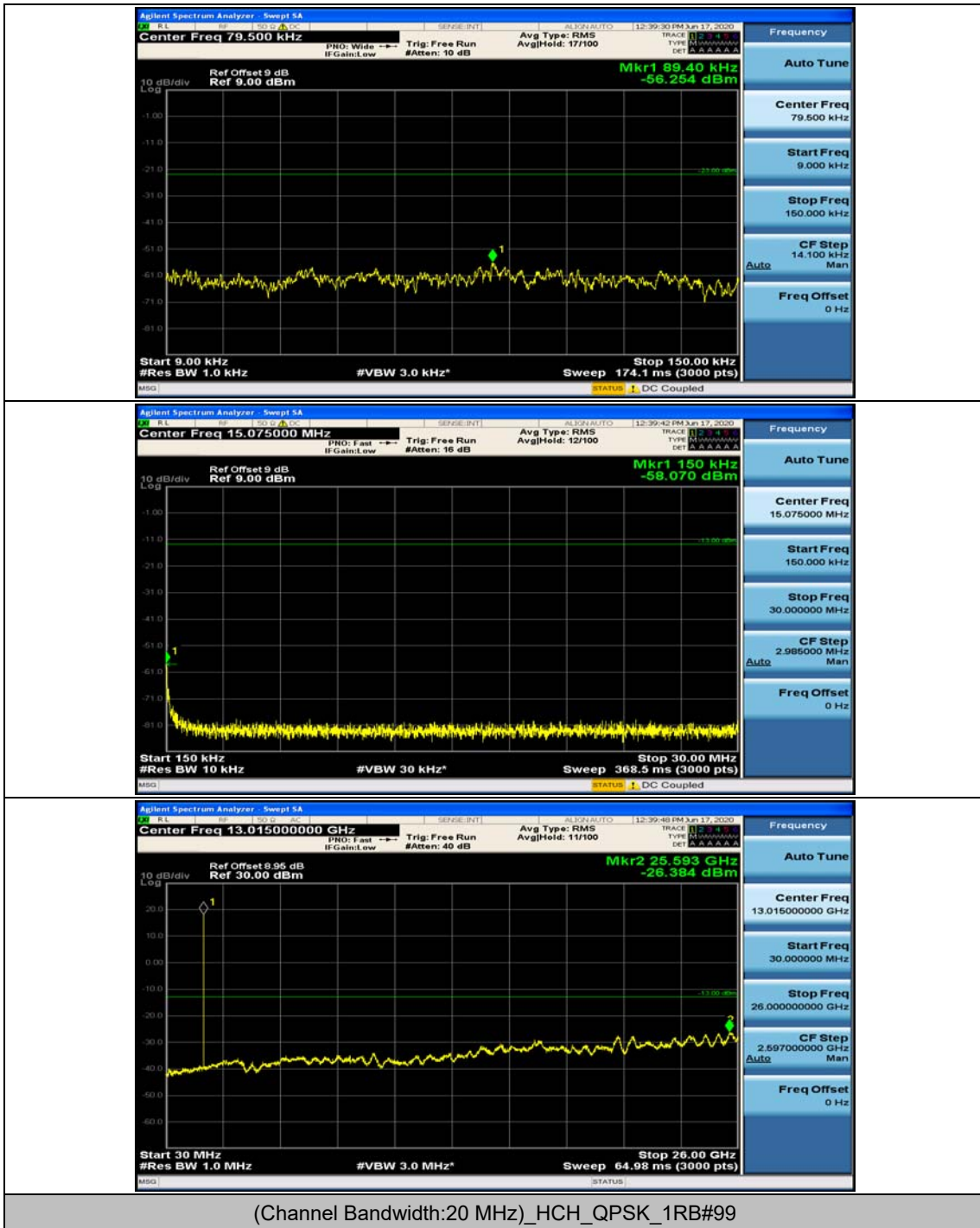


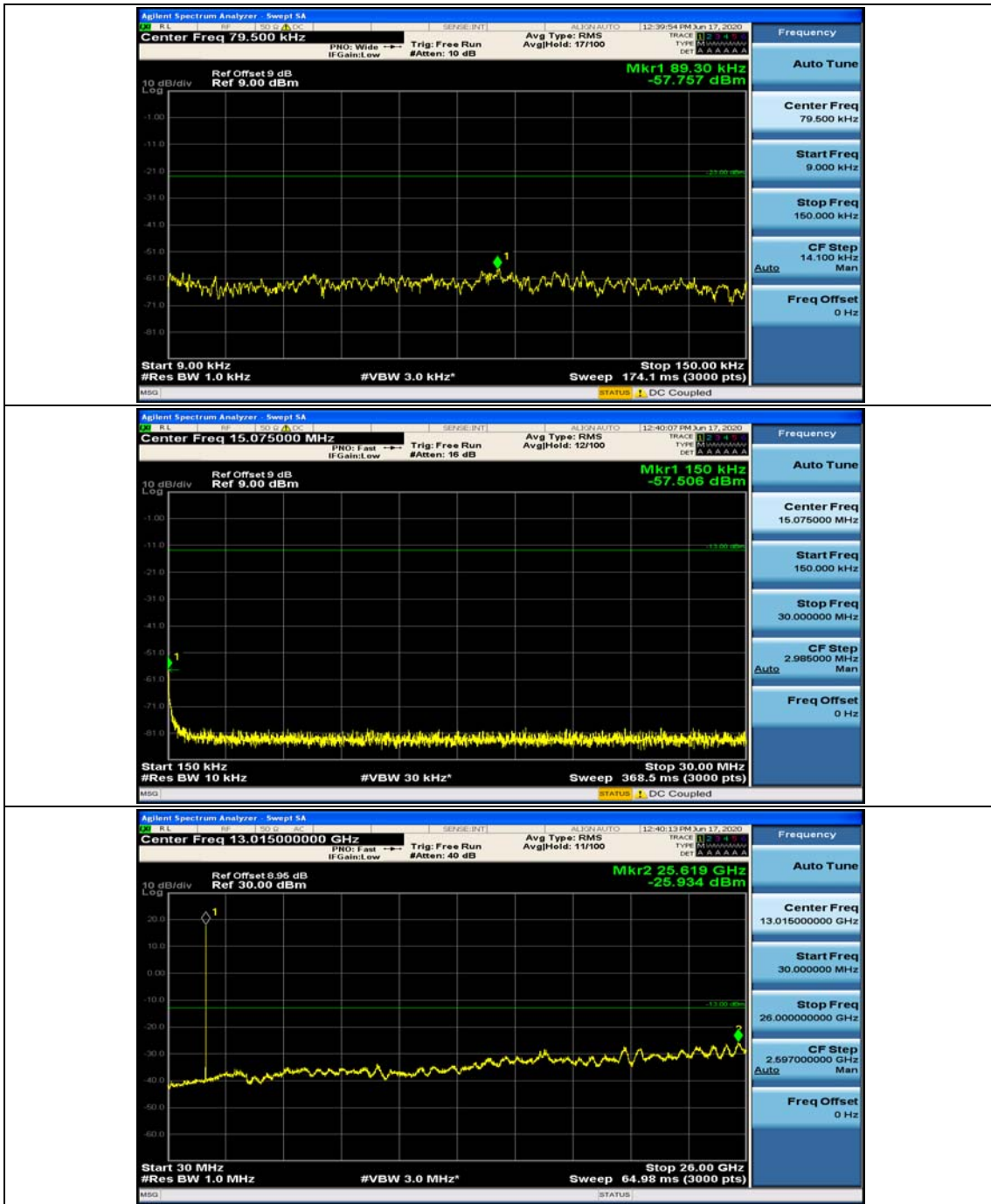


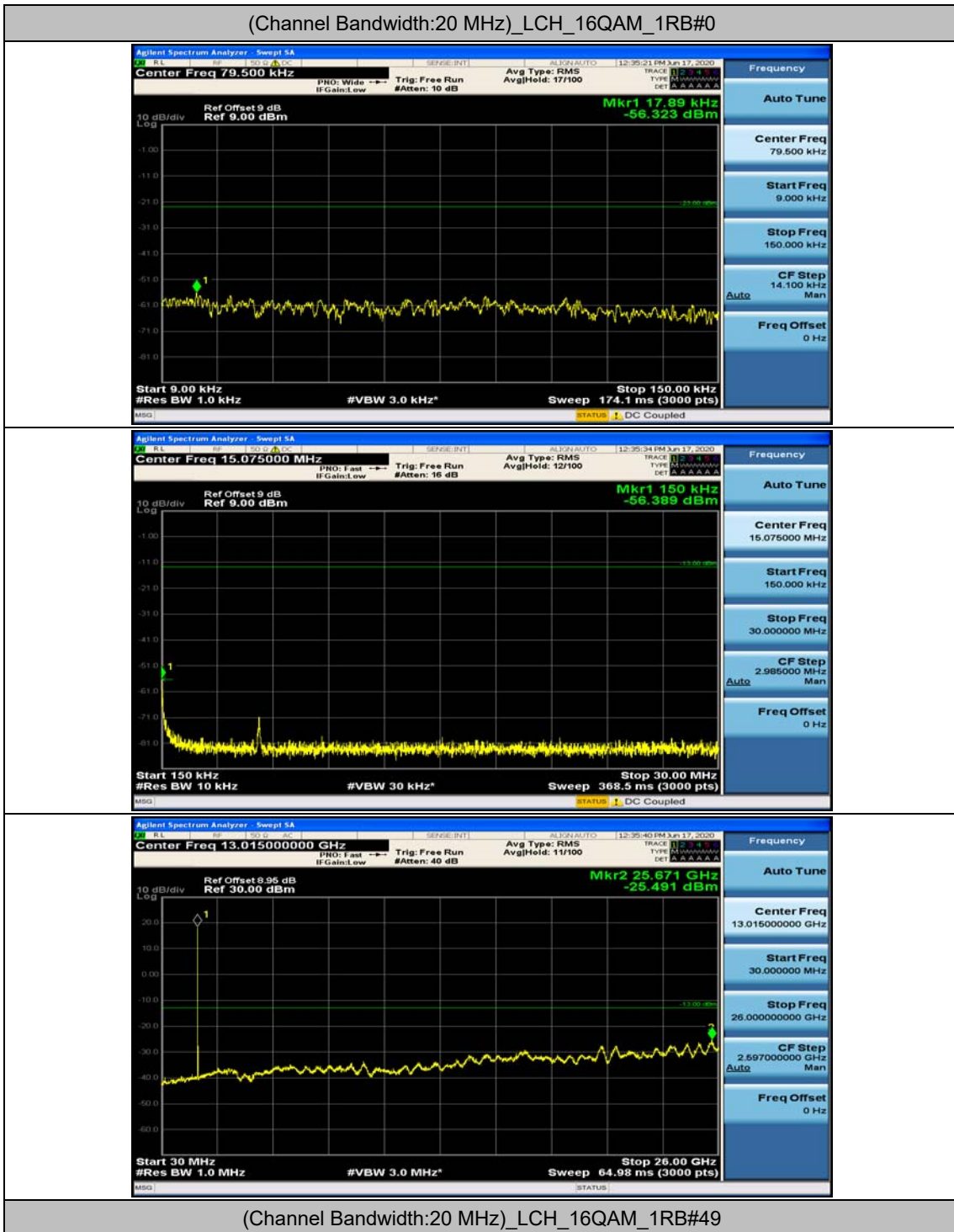
(Channel Bandwidth:20 MHz)_HCH_QPSK_1RB#0

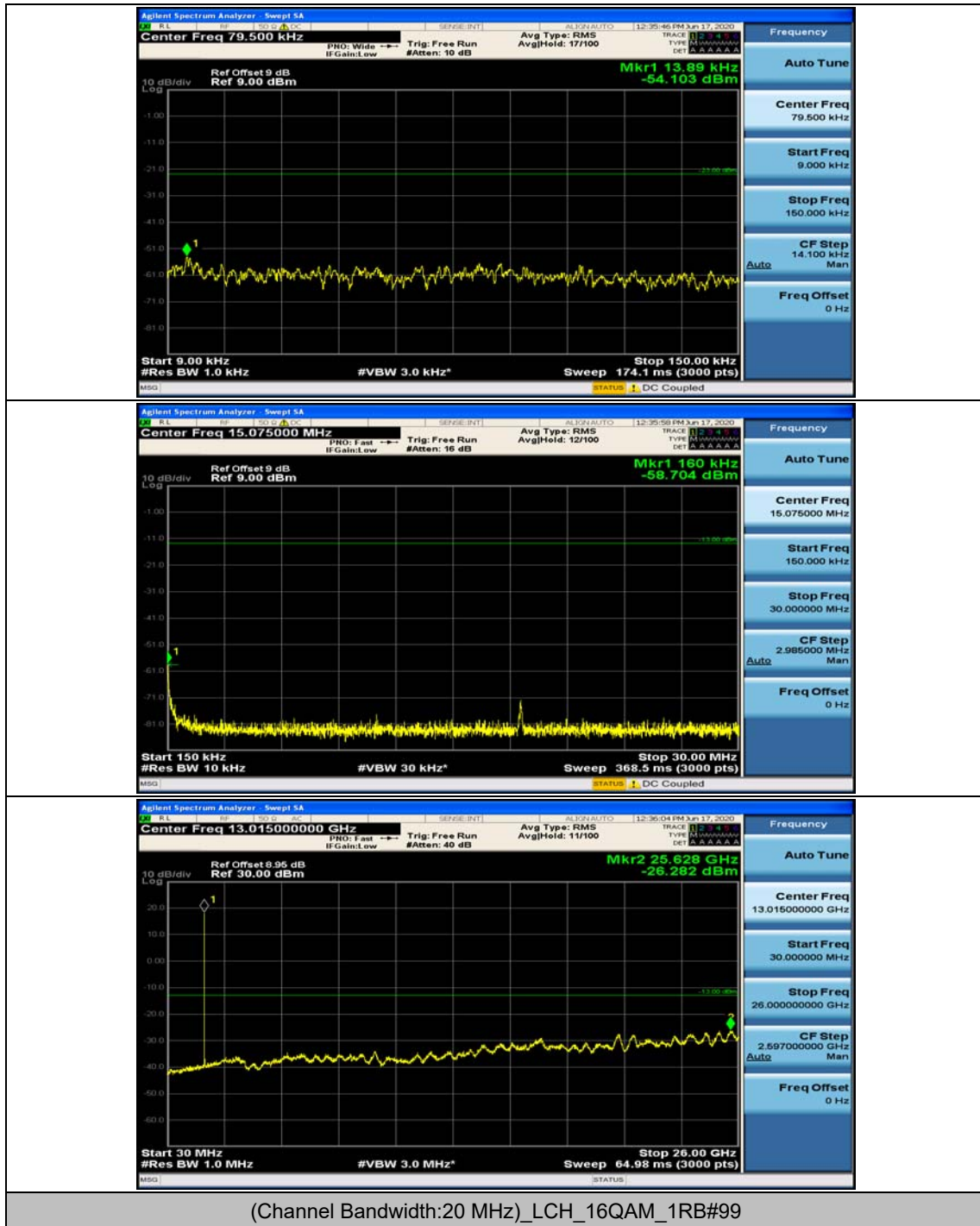


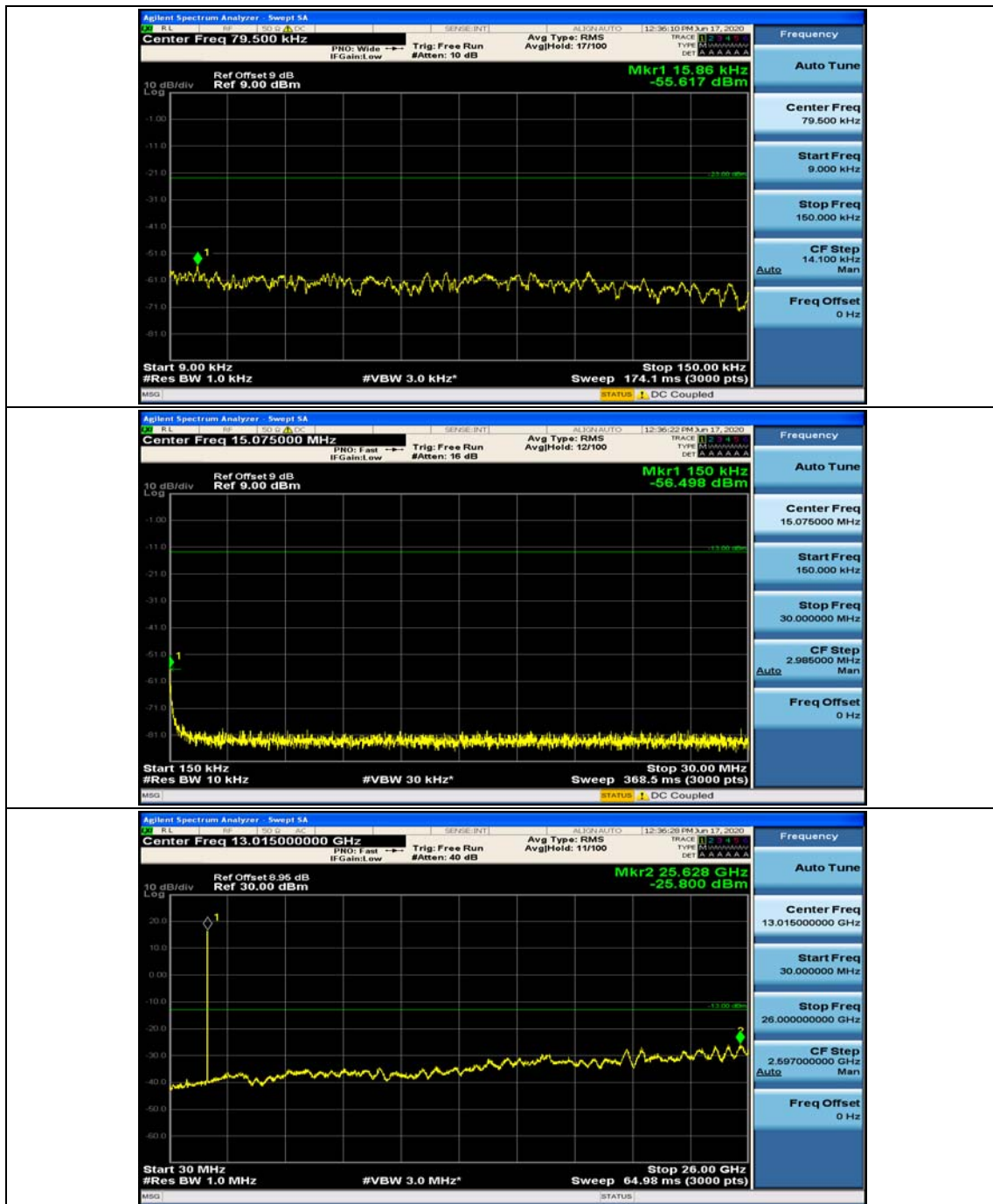
(Channel Bandwidth:20 MHz)_HCH_QPSK_1RB#49



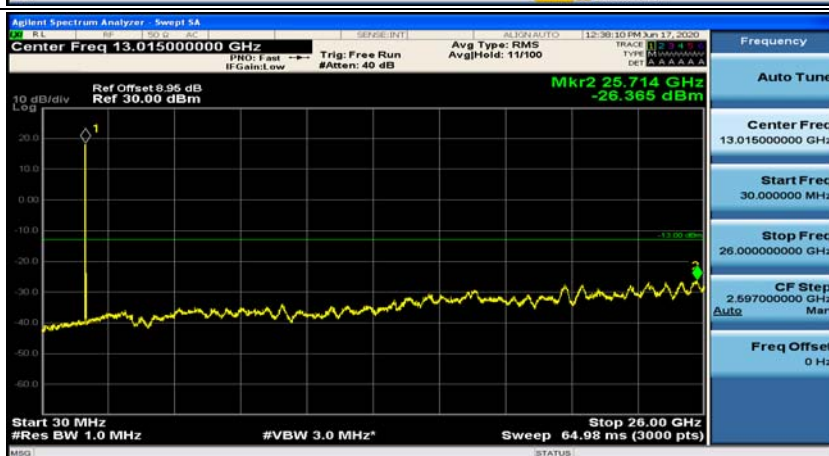
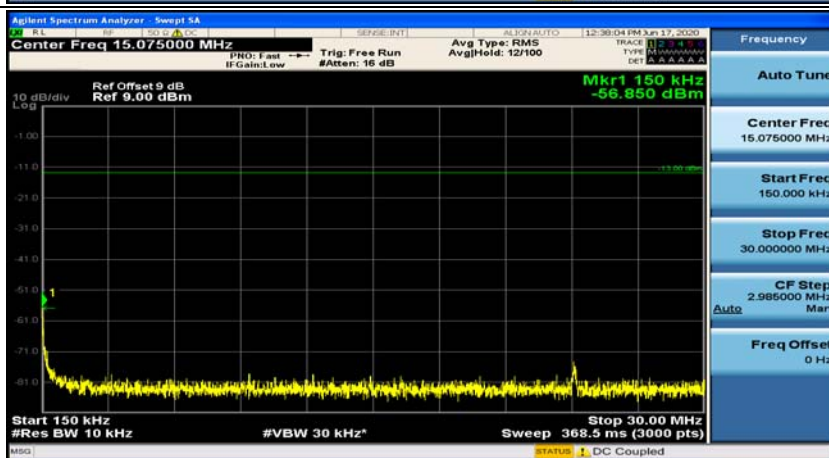




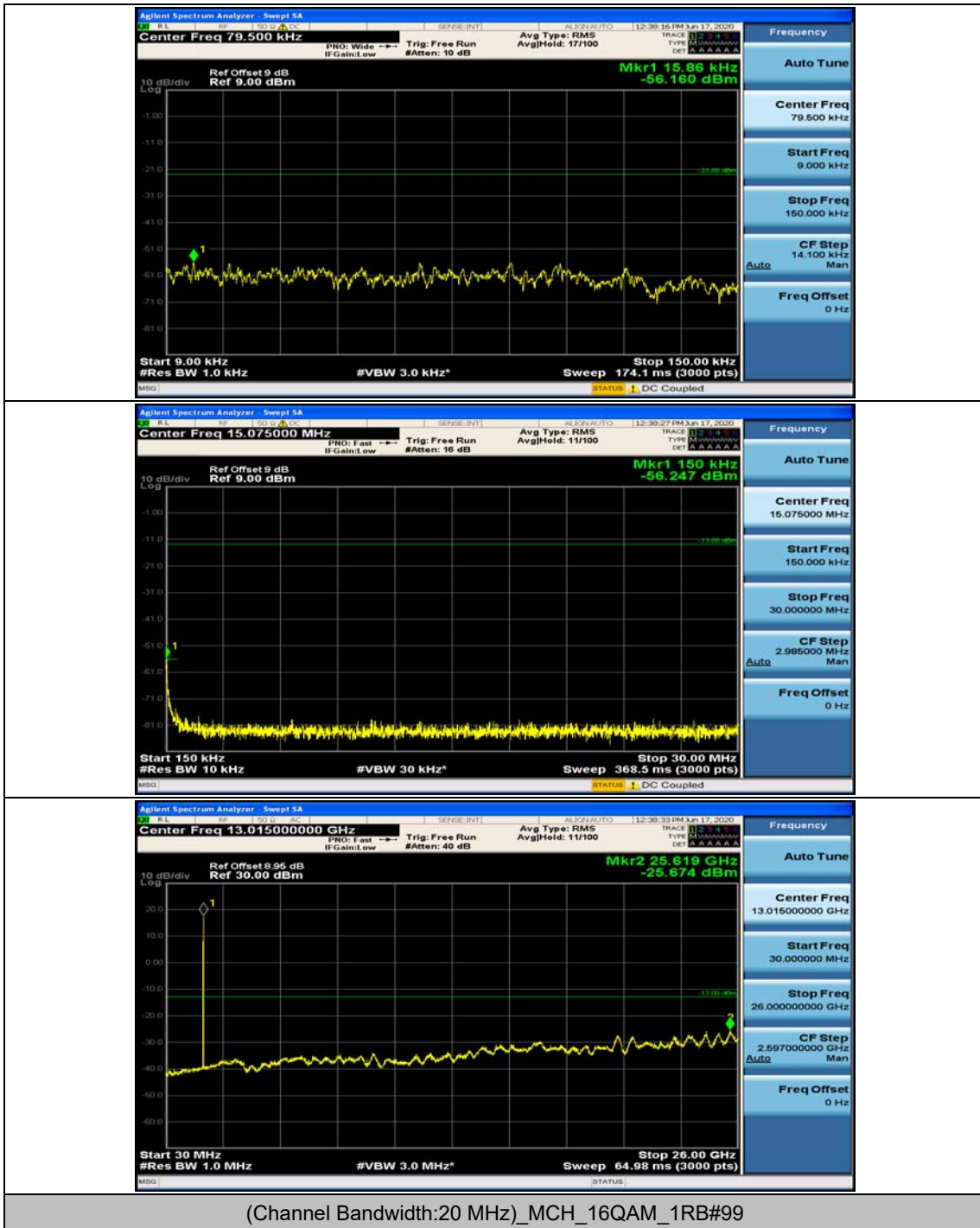


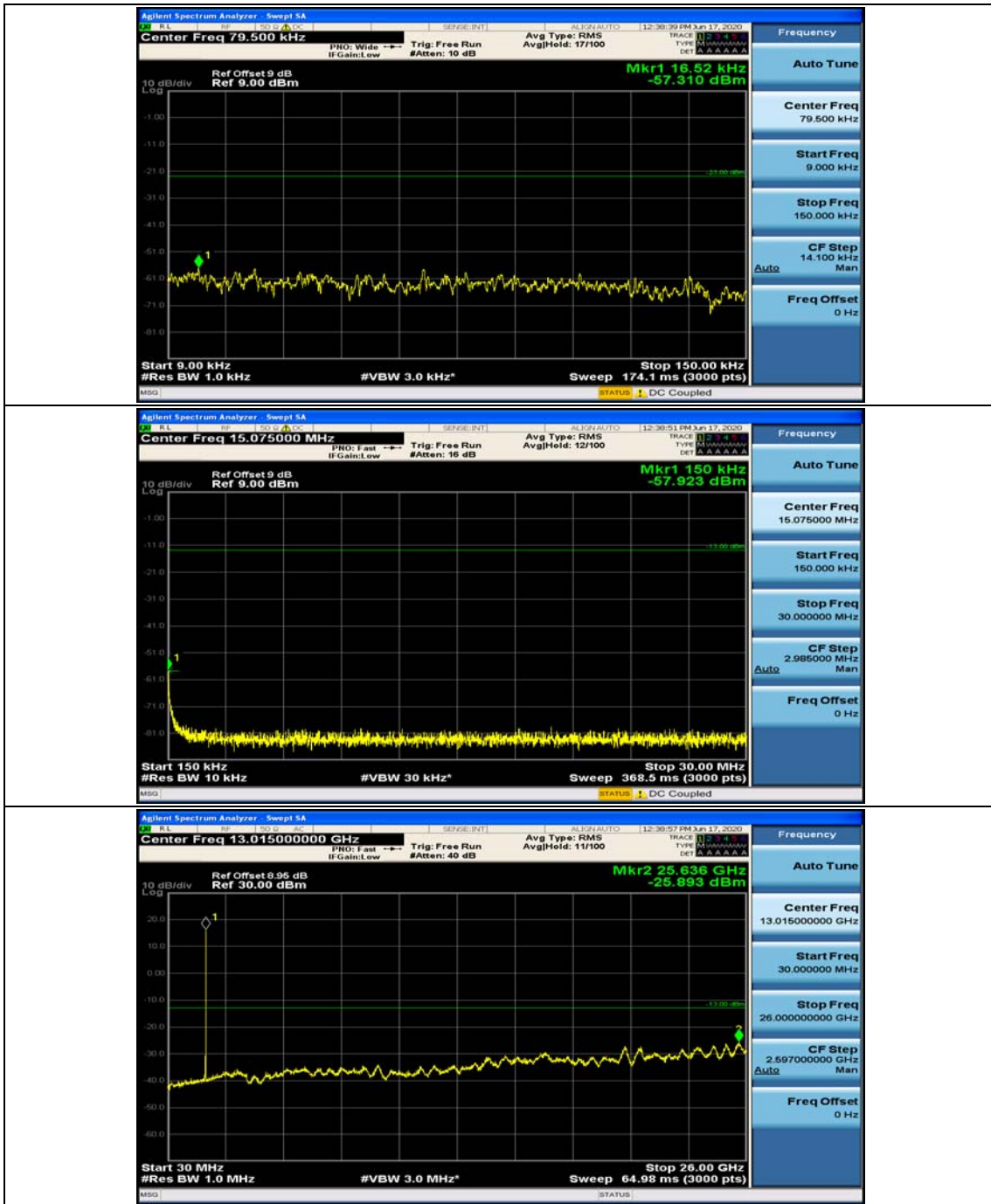


(Channel Bandwidth:20 MHz)_MCH_16QAM_1RB#0

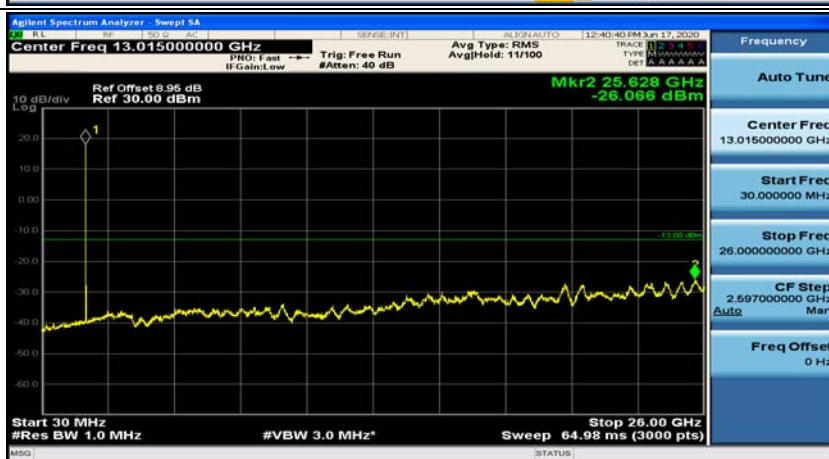
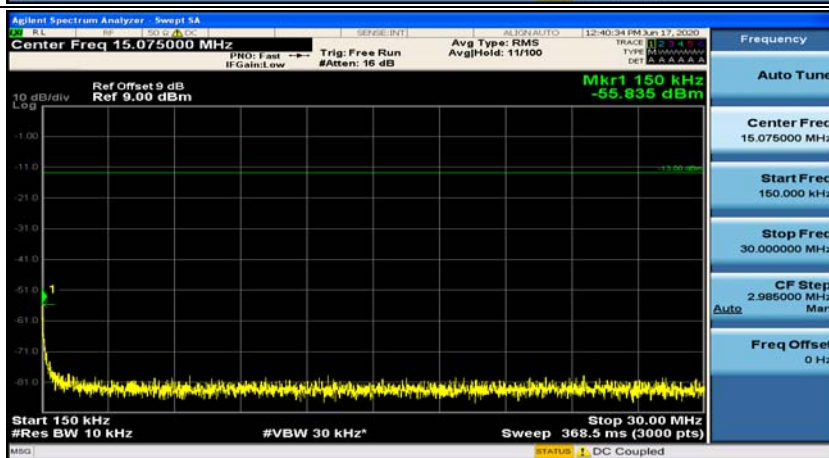
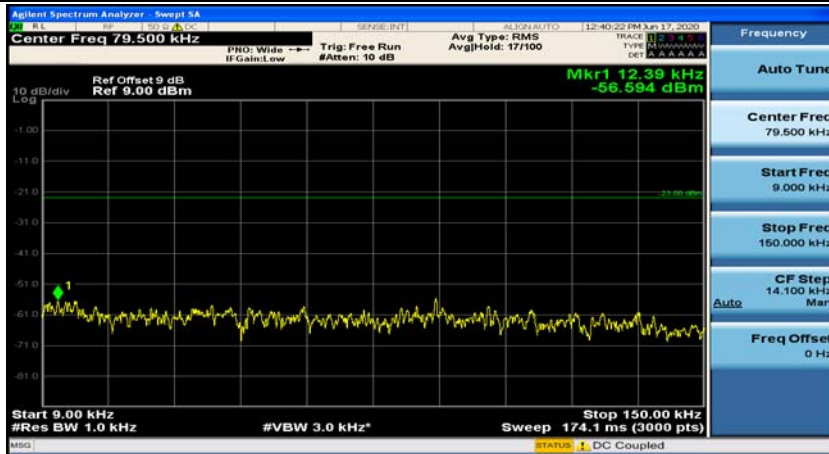


(Channel Bandwidth:20 MHz)_MCH_16QAM_1RB#49

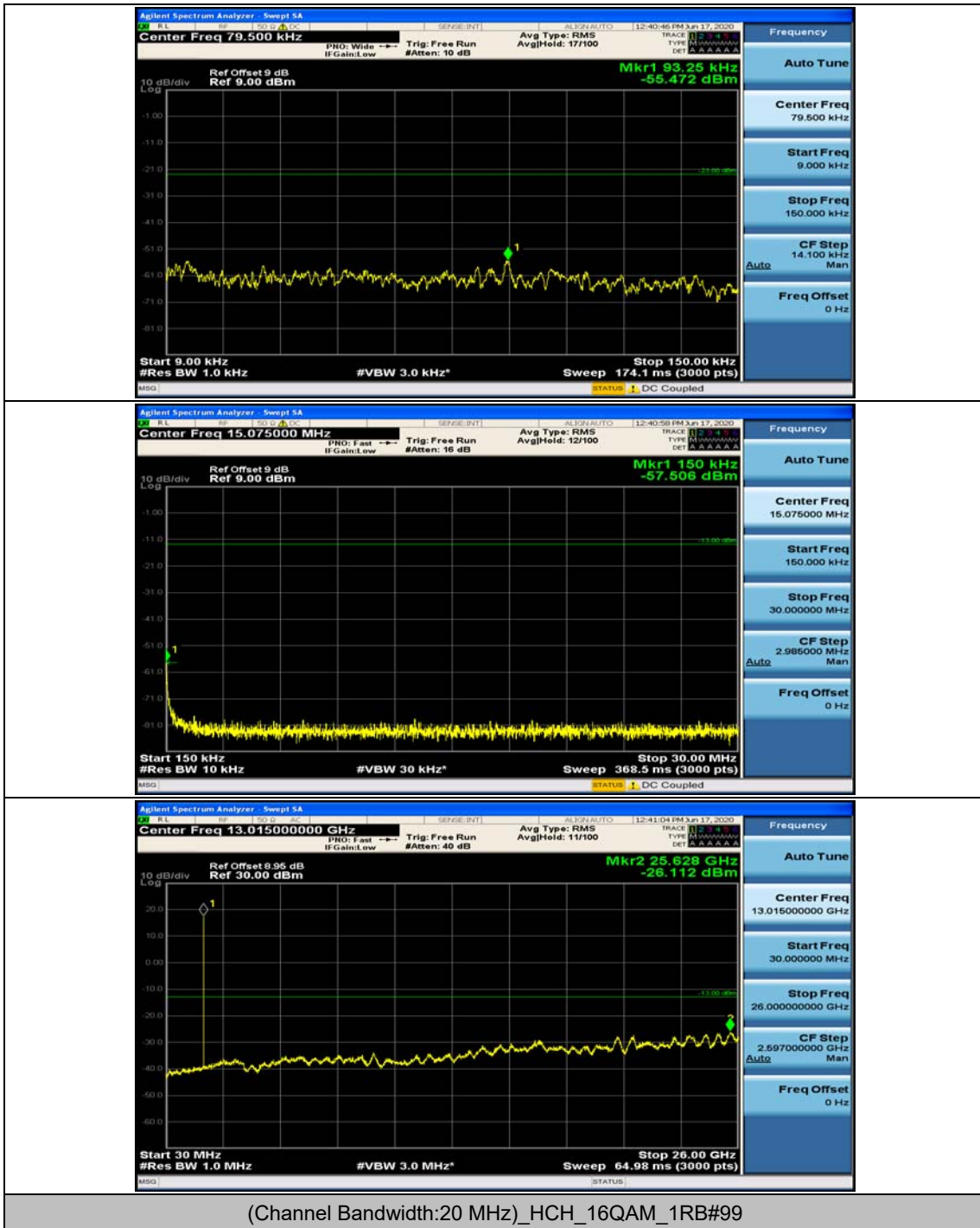


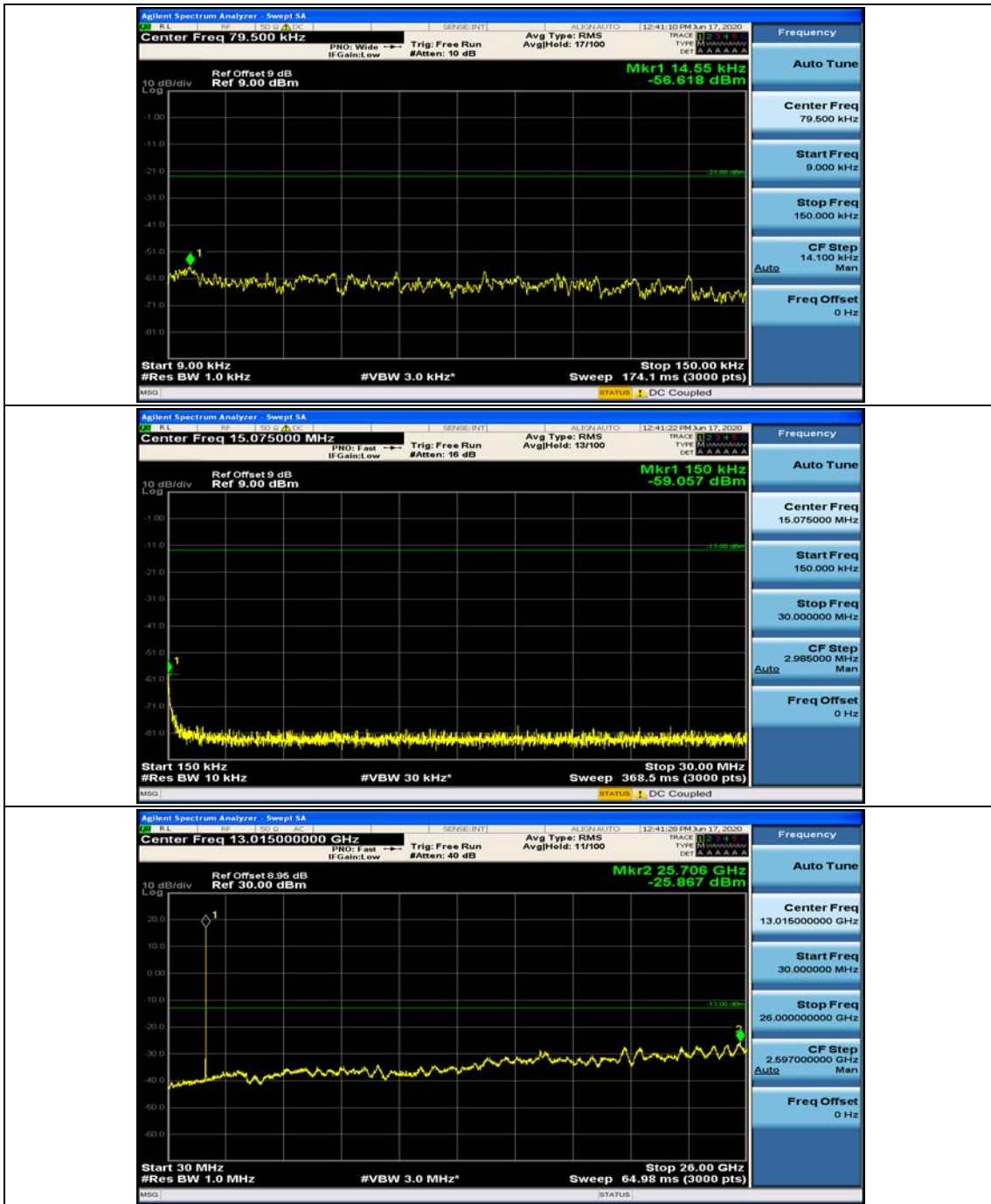


(Channel Bandwidth:20 MHz)_HCH_16QAM_1RB#0



(Channel Bandwidth:20 MHz)_HCH_16QAM_1RB#49





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	3.3	0.001929	± 2.5	PASS
		VN	TN	2.4	0.001403	± 2.5	PASS
		VH	TN	4.44	0.002595	± 2.5	PASS
	MCH	VL	TN	2.09	0.001206	± 2.5	PASS
		VN	TN	0.56	0.000323	± 2.5	PASS
		VH	TN	1.06	0.000612	± 2.5	PASS
	HCH	VL	TN	-0.75	-0.000428	± 2.5	PASS
		VN	TN	-1.96	-0.001117	± 2.5	PASS
		VH	TN	4.23	0.002411	± 2.5	PASS
16QAM	LCH	VL	TN	-1.06	-0.000620	± 2.5	PASS
		VN	TN	0.7	0.000409	± 2.5	PASS
		VH	TN	2.48	0.001450	± 2.5	PASS
	MCH	VL	TN	-0.68	-0.000392	± 2.5	PASS
		VN	TN	-0.43	-0.000248	± 2.5	PASS
		VH	TN	-0.27	-0.000156	± 2.5	PASS
	HCH	VL	TN	2.14	0.001220	± 2.5	PASS
		VN	TN	-1.52	-0.000866	± 2.5	PASS
		VH	TN	2.19	0.001248	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	0.69	0.000403	± 2.5	PASS
		VN	-20	4.92	0.002876	± 2.5	PASS
		VN	-10	2.03	0.001187	± 2.5	PASS
		VN	0	2.6	0.001520	± 2.5	PASS
		VN	10	2.58	0.001508	± 2.5	PASS
		VN	20	2.34	0.001368	± 2.5	PASS
		VN	30	2.79	0.001631	± 2.5	PASS
		VN	40	-1.39	-0.000813	± 2.5	PASS
		VN	50	2.92	0.001707	± 2.5	PASS

	MCH	VN	-30	-0.91	-0.000525	± 2.5	PASS
		VN	-20	3.06	0.001766	± 2.5	PASS
		VN	-10	3.08	0.001778	± 2.5	PASS
		VN	0	1.7	0.000981	± 2.5	PASS
		VN	10	0.31	0.000179	± 2.5	PASS
		VN	20	4.54	0.002620	± 2.5	PASS
		VN	30	4.32	0.002494	± 2.5	PASS
		VN	40	4.88	0.002817	± 2.5	PASS
		VN	50	4.09	0.002361	± 2.5	PASS
	HCH	VN	-30	2.77	0.001579	± 2.5	PASS
		VN	-20	4.95	0.002822	± 2.5	PASS
		VN	-10	4.87	0.002776	± 2.5	PASS
		VN	0	4.46	0.002542	± 2.5	PASS
		VN	10	3.82	0.002178	± 2.5	PASS
		VN	20	0.19	0.000108	± 2.5	PASS
		VN	30	-1.86	-0.001060	± 2.5	PASS
		VN	40	2.82	0.001607	± 2.5	PASS
		VN	50	-1.79	-0.001020	± 2.5	PASS
16QAM	LCH	VN	-30	-0.54	-0.000316	± 2.5	PASS
		VN	-20	3.49	0.002040	± 2.5	PASS
		VN	-10	-0.91	-0.000532	± 2.5	PASS
		VN	0	3.47	0.002028	± 2.5	PASS
		VN	10	1.05	0.000614	± 2.5	PASS
		VN	20	3.59	0.002099	± 2.5	PASS
		VN	30	1.01	0.000590	± 2.5	PASS
		VN	40	4.5	0.002631	± 2.5	PASS
		VN	50	3.89	0.002274	± 2.5	PASS
	MCH	VN	-30	0.24	0.000137	± 2.5	PASS
		VN	-20	-1.01	-0.000576	± 2.5	PASS
		VN	-10	2.67	0.001522	± 2.5	PASS
		VN	0	3.24	0.001847	± 2.5	PASS
		VN	10	0.69	0.000393	± 2.5	PASS
		VN	20	3.19	0.001818	± 2.5	PASS
		VN	30	-0.28	-0.000160	± 2.5	PASS
		VN	40	4.53	0.002582	± 2.5	PASS
		VN	50	4.48	0.002554	± 2.5	PASS
	HCH	VN	-30	3.69	0.002103	± 2.5	PASS
		VN	-20	-0.85	-0.000485	± 2.5	PASS
		VN	-10	-0.84	-0.000479	± 2.5	PASS
		VN	0	3.72	0.002121	± 2.5	PASS
		VN	10	2.14	0.001220	± 2.5	PASS

		VN	20	0.58	0.000331	± 2.5	PASS
		VN	30	-0.3	-0.000171	± 2.5	PASS
		VN	40	4.52	0.002577	± 2.5	PASS
		VN	50	2.63	0.001499	± 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	4.32	0.002524	± 2.5	PASS
		VN	TN	0.59	0.000345	± 2.5	PASS
		VH	TN	-1.42	-0.000830	± 2.5	PASS
	MCH	VL	TN	-1.17	-0.000675	± 2.5	PASS
		VN	TN	-1.47	-0.000848	± 2.5	PASS
		VH	TN	3.51	0.002026	± 2.5	PASS
	HCH	VL	TN	1.53	0.000873	± 2.5	PASS
		VN	TN	-1.57	-0.000895	± 2.5	PASS
		VH	TN	-0.63	-0.000359	± 2.5	PASS
16QAM	LCH	VL	TN	1.46	0.000853	± 2.5	PASS
		VN	TN	1.33	0.000777	± 2.5	PASS
		VH	TN	4.35	0.002542	± 2.5	PASS
	MCH	VL	TN	0.78	0.000450	± 2.5	PASS
		VN	TN	0.13	0.000075	± 2.5	PASS
		VH	TN	0.94	0.000543	± 2.5	PASS
	HCH	VL	TN	3.12	0.001779	± 2.5	PASS
		VN	TN	4.1	0.002338	± 2.5	PASS
		VH	TN	3.98	0.002270	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	1.64	0.000958	± 2.5	PASS
		VN	-20	4.97	0.002904	± 2.5	PASS
		VN	-10	0.59	0.000345	± 2.5	PASS
		VN	0	0.26	0.000152	± 2.5	PASS
		VN	10	4.43	0.002588	± 2.5	PASS
		VN	20	1.34	0.000783	± 2.5	PASS
		VN	30	-0.75	-0.000438	± 2.5	PASS
		VN	40	-0.58	-0.000339	± 2.5	PASS
	VN	50	0.4	0.000234	± 2.5	PASS	
MCH	VN	-30	3.36	0.001939	± 2.5	PASS	

		VN	-20	-1.62	-0.000935	± 2.5	PASS
		VN	-10	2.58	0.001489	± 2.5	PASS
		VN	0	4.73	0.002730	± 2.5	PASS
		VN	10	2.93	0.001691	± 2.5	PASS
		VN	20	2.49	0.001437	± 2.5	PASS
		VN	30	3.4	0.001962	± 2.5	PASS
		VN	40	-1.17	-0.000675	± 2.5	PASS
		VN	50	3.23	0.001864	± 2.5	PASS
	HCH	VN	-30	1.36	0.000776	± 2.5	PASS
		VN	-20	2.73	0.001557	± 2.5	PASS
		VN	-10	4.06	0.002315	± 2.5	PASS
		VN	0	0.68	0.000388	± 2.5	PASS
		VN	10	-1.01	-0.000576	± 2.5	PASS
		VN	20	4.39	0.002504	± 2.5	PASS
		VN	30	1.14	0.000650	± 2.5	PASS
		VN	40	4.31	0.002458	± 2.5	PASS
		VN	50	2.98	0.001699	± 2.5	PASS
		16QAM	LCH	VN	-30	4.32	0.002494
VN	-20			-1.8	-0.001039	± 2.5	PASS
VN	-10			2.37	0.001368	± 2.5	PASS
VN	0			2.72	0.001570	± 2.5	PASS
VN	10			3.66	0.002113	± 2.5	PASS
VN	20			-1.04	-0.000600	± 2.5	PASS
VN	30			1.09	0.000629	± 2.5	PASS
VN	40			-1.27	-0.000733	± 2.5	PASS
VN	50			2.38	0.001374	± 2.5	PASS
MCH	VN		-30	-0.52	-0.000297	± 2.5	PASS
	VN		-20	0.97	0.000553	± 2.5	PASS
	VN		-10	2.11	0.001203	± 2.5	PASS
	VN		0	-0.31	-0.000177	± 2.5	PASS
	VN		10	-1.67	-0.000952	± 2.5	PASS
	VN		20	-0.73	-0.000416	± 2.5	PASS
	VN		30	-0.08	-0.000046	± 2.5	PASS
	VN		40	4.38	0.002498	± 2.5	PASS
	VN		50	2.54	0.001449	± 2.5	PASS
HCH	VN		-30	1.58	0.000901	± 2.5	PASS
	VN		-20	-1.91	-0.001089	± 2.5	PASS
	VN		-10	1.6	0.000912	± 2.5	PASS
	VN		0	2.72	0.001551	± 2.5	PASS
	VN		10	2.88	0.001642	± 2.5	PASS
	VN		20	3.37	0.001922	± 2.5	PASS

		VN	30	2.02	0.001152	± 2.5	PASS
		VN	40	-0.87	-0.000496	± 2.5	PASS
		VN	50	-1.86	-0.001061	± 2.5	PASS

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	4.41	0.002575	± 2.5	PASS
		VN	TN	3.98	0.002324	± 2.5	PASS
		VH	TN	-0.93	-0.000543	± 2.5	PASS
	MCH	VL	TN	1.44	0.000831	± 2.5	PASS
		VN	TN	3.31	0.001911	± 2.5	PASS
		VH	TN	1.76	0.001016	± 2.5	PASS
	HCH	VL	TN	-1.01	-0.000576	± 2.5	PASS
		VN	TN	1.6	0.000913	± 2.5	PASS
		VH	TN	1.58	0.000902	± 2.5	PASS
16QAM	LCH	VL	TN	3.53	0.002061	± 2.5	PASS
		VN	TN	3.67	0.002143	± 2.5	PASS
		VH	TN	2.45	0.001431	± 2.5	PASS
	MCH	VL	TN	0.85	0.000491	± 2.5	PASS
		VN	TN	-1.09	-0.000629	± 2.5	PASS
		VH	TN	1.65	0.000952	± 2.5	PASS
	HCH	VL	TN	3	0.001712	± 2.5	PASS
		VN	TN	3.54	0.002020	± 2.5	PASS
		VH	TN	-0.69	-0.000394	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-1.74	-0.001016	± 2.5	PASS
		VN	-20	0.32	0.000187	± 2.5	PASS
		VN	-10	3.77	0.002201	± 2.5	PASS
		VN	0	2.62	0.001530	± 2.5	PASS
		VN	10	3.85	0.002248	± 2.5	PASS
		VN	20	3.48	0.002032	± 2.5	PASS
		VN	30	3.41	0.001991	± 2.5	PASS
		VN	40	2.6	0.001518	± 2.5	PASS
		VN	50	-0.85	-0.000496	± 2.5	PASS
	MCH	VN	-30	1.56	0.000900	± 2.5	PASS
		VN	-20	0.62	0.000358	± 2.5	PASS

		VN	-10	-0.16	-0.000092	± 2.5	PASS		
		VN	0	2.75	0.001587	± 2.5	PASS		
		VN	10	3.84	0.002216	± 2.5	PASS		
		VN	20	-0.64	-0.000369	± 2.5	PASS		
		VN	30	4.35	0.002511	± 2.5	PASS		
		VN	40	-1.14	-0.000658	± 2.5	PASS		
		VN	50	4.79	0.002765	± 2.5	PASS		
	HCH	VN	-30	3.39	0.001934	± 2.5	PASS		
		VN	-20	4.5	0.002359	± 2.5	PASS		
		VN	-10	0.23	0.000121	± 2.5	PASS		
		VN	0	0.27	0.000142	± 2.5	PASS		
		VN	10	-1.89	-0.000991	± 2.5	PASS		
		VN	20	-1.12	-0.000587	± 2.5	PASS		
		VN	30	-1.91	-0.001001	± 2.5	PASS		
		VN	40	1.18	0.000619	± 2.5	PASS		
		VN	50	4.62	0.002422	± 2.5	PASS		
		16QAM	LCH	VN	-30	2.46	0.001420	± 2.5	PASS
				VN	-20	3.57	0.002061	± 2.5	PASS
VN	-10			2.53	0.001460	± 2.5	PASS		
VN	0			0.94	0.000543	± 2.5	PASS		
VN	10			3.45	0.001991	± 2.5	PASS		
VN	20			1.37	0.000791	± 2.5	PASS		
VN	30			-1.61	-0.000929	± 2.5	PASS		
VN	40			-1.54	-0.000889	± 2.5	PASS		
VN	50			3.13	0.001807	± 2.5	PASS		
MCH	VN		-30	-0.78	-0.000445	± 2.5	PASS		
	VN		-20	-0.23	-0.000131	± 2.5	PASS		
	VN		-10	4.18	0.002385	± 2.5	PASS		
	VN		0	0.81	0.000462	± 2.5	PASS		
	VN		10	2.12	0.001210	± 2.5	PASS		
	VN		20	4.12	0.002351	± 2.5	PASS		
	VN		30	-0.81	-0.000462	± 2.5	PASS		
	VN		40	4	0.002282	± 2.5	PASS		
	VN		50	-1.31	-0.000748	± 2.5	PASS		
HCH	VN		-30	2.76	0.001447	± 2.5	PASS		
	VN		-20	2.09	0.001096	± 2.5	PASS		
	VN		-10	0.94	0.000493	± 2.5	PASS		
	VN		0	0.82	0.000430	± 2.5	PASS		
	VN		10	1.72	0.000902	± 2.5	PASS		
	VN		20	3.85	0.002018	± 2.5	PASS		
	VN		30	1.79	0.000938	± 2.5	PASS		

		VN	40	-0.1	-0.000052	± 2.5	PASS
		VN	50	1.36	0.000713	± 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	3.54	0.002064	± 2.5	PASS
		VN	TN	-0.35	-0.000204	± 2.5	PASS
		VH	TN	-1.21	-0.000706	± 2.5	PASS
	MCH	VL	TN	-0.6	-0.000346	± 2.5	PASS
		VN	TN	3.55	0.002049	± 2.5	PASS
		VH	TN	2.93	0.001691	± 2.5	PASS
	HCH	VL	TN	2.97	0.001697	± 2.5	PASS
		VN	TN	-0.88	-0.000503	± 2.5	PASS
		VH	TN	4.34	0.002480	± 2.5	PASS
16QAM	LCH	VL	TN	4.31	0.002513	± 2.5	PASS
		VN	TN	2.82	0.001644	± 2.5	PASS
		VH	TN	2.06	0.001201	± 2.5	PASS
	MCH	VL	TN	1.49	0.000860	± 2.5	PASS
		VN	TN	-0.59	-0.000341	± 2.5	PASS
		VH	TN	0.93	0.000537	± 2.5	PASS
	HCH	VL	TN	0.62	0.000354	± 2.5	PASS
		VN	TN	0.16	0.000091	± 2.5	PASS
		VH	TN	-1.98	-0.001131	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	1.69	0.000985	± 2.5	PASS
		VN	-20	4.45	0.002595	± 2.5	PASS
		VN	-10	-0.92	-0.000536	± 2.5	PASS
		VN	0	0.35	0.000204	± 2.5	PASS
		VN	10	1.67	0.000974	± 2.5	PASS
		VN	20	4.65	0.002711	± 2.5	PASS
		VN	30	-1.18	-0.000688	± 2.5	PASS
		VN	40	2.87	0.001673	± 2.5	PASS
		VN	50	-0.56	-0.000327	± 2.5	PASS
	MCH	VN	-30	4.59	0.002649	± 2.5	PASS
		VN	-20	2.86	0.001651	± 2.5	PASS
		VN	-10	3.05	0.001760	± 2.5	PASS

		VN	0	4.39	0.002534	± 2.5	PASS		
		VN	10	1.63	0.000941	± 2.5	PASS		
		VN	20	-1.22	-0.000704	± 2.5	PASS		
		VN	30	4.46	0.002574	± 2.5	PASS		
		VN	40	1.97	0.001137	± 2.5	PASS		
		VN	50	3.05	0.001760	± 2.5	PASS		
	HCH	VN	-30	-0.81	-0.000463	± 2.5	PASS		
		VN	-20	-0.95	-0.000543	± 2.5	PASS		
		VN	-10	0.02	0.000011	± 2.5	PASS		
		VN	0	4.1	0.002343	± 2.5	PASS		
		VN	10	-0.08	-0.000046	± 2.5	PASS		
		VN	20	1.85	0.001057	± 2.5	PASS		
		VN	30	-1.99	-0.001137	± 2.5	PASS		
		VN	40	1.43	0.000817	± 2.5	PASS		
		VN	50	4.44	0.002537	± 2.5	PASS		
		16QAM	LCH	VN	-30	2.27	0.001310	± 2.5	PASS
				VN	-20	-1.43	-0.000825	± 2.5	PASS
				VN	-10	4.1	0.002367	± 2.5	PASS
VN	0			-1.14	-0.000658	± 2.5	PASS		
VN	10			4.82	0.002782	± 2.5	PASS		
VN	20			-1.76	-0.001016	± 2.5	PASS		
VN	30			-0.82	-0.000473	± 2.5	PASS		
VN	40			-0.3	-0.000173	± 2.5	PASS		
VN	50			2.14	0.001235	± 2.5	PASS		
MCH	VN		-30	1.58	0.000903	± 2.5	PASS		
	VN		-20	-0.92	-0.000526	± 2.5	PASS		
	VN		-10	-0.28	-0.000160	± 2.5	PASS		
	VN		0	2.79	0.001594	± 2.5	PASS		
	VN		10	-1.84	-0.001051	± 2.5	PASS		
	VN		20	0.23	0.000131	± 2.5	PASS		
	VN		30	2.07	0.001183	± 2.5	PASS		
	VN		40	0.56	0.000320	± 2.5	PASS		
	VN		50	3.48	0.001989	± 2.5	PASS		
HCH	VN	-30	3.07	0.001754	± 2.5	PASS			
	VN	-20	-0.72	-0.000411	± 2.5	PASS			
	VN	-10	3.48	0.001989	± 2.5	PASS			
	VN	0	-0.28	-0.000160	± 2.5	PASS			
	VN	10	0.07	0.000040	± 2.5	PASS			
	VN	20	1.67	0.000954	± 2.5	PASS			
	VN	30	-1.86	-0.001063	± 2.5	PASS			
	VN	40	0.29	0.000166	± 2.5	PASS			

		VN	50	2.31	0.001320	± 2.5	PASS
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Channel Bandwidth: 15 MHz

Channel Bandwidth: 15 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	3.28	0.001910	± 2.5	PASS
		VN	TN	0.12	0.000070	± 2.5	PASS
		VH	TN	2.28	0.001328	± 2.5	PASS
	MCH	VL	TN	1.95	0.001126	± 2.5	PASS
		VN	TN	-0.07	-0.000040	± 2.5	PASS
		VH	TN	4.38	0.002528	± 2.5	PASS
	HCH	VL	TN	0.39	0.000223	± 2.5	PASS
		VN	TN	2.41	0.001379	± 2.5	PASS
		VH	TN	3.22	0.001843	± 2.5	PASS
16QAM	LCH	VL	TN	2.06	0.001199	± 2.5	PASS
		VN	TN	5	0.002911	± 2.5	PASS
		VH	TN	-0.96	-0.000559	± 2.5	PASS
	MCH	VL	TN	4.29	0.002476	± 2.5	PASS
		VN	TN	4.11	0.002372	± 2.5	PASS
		VH	TN	1.58	0.000912	± 2.5	PASS
	HCH	VL	TN	3.16	0.001808	± 2.5	PASS
		VN	TN	4.52	0.002587	± 2.5	PASS
		VH	TN	3.28	0.001877	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-1.6	-0.000932	± 2.5	PASS
		VN	-20	4.46	0.002597	± 2.5	PASS
		VN	-10	-0.19	-0.000111	± 2.5	PASS
		VN	0	0.92	0.000536	± 2.5	PASS
		VN	10	0.8	0.000466	± 2.5	PASS
		VN	20	-1.74	-0.001013	± 2.5	PASS
		VN	30	-1.75	-0.001019	± 2.5	PASS
		VN	40	1.24	0.000722	± 2.5	PASS
		VN	50	1.4	0.000815	± 2.5	PASS
	MCH	VN	-30	2.24	0.001293	± 2.5	PASS
		VN	-20	-1.89	-0.001091	± 2.5	PASS
		VN	-10	4.36	0.002517	± 2.5	PASS
		VN	0	4.55	0.002626	± 2.5	PASS

		VN	10	3.92	0.002263	± 2.5	PASS		
		VN	20	-0.33	-0.000190	± 2.5	PASS		
		VN	30	-0.56	-0.000323	± 2.5	PASS		
		VN	40	3.63	0.002095	± 2.5	PASS		
		VN	50	1.46	0.000843	± 2.5	PASS		
	HCH	VN	-30	-1.55	-0.000887	± 2.5	PASS		
		VN	-20	-0.02	-0.000011	± 2.5	PASS		
		VN	-10	2.3	0.001316	± 2.5	PASS		
		VN	0	4.18	0.002392	± 2.5	PASS		
		VN	10	3.05	0.001745	± 2.5	PASS		
		VN	20	4.59	0.002627	± 2.5	PASS		
		VN	30	4.28	0.002449	± 2.5	PASS		
		VN	40	0.41	0.000235	± 2.5	PASS		
		VN	50	1.54	0.000881	± 2.5	PASS		
		16QAM	LCH	VN	-30	0.73	0.000421	± 2.5	PASS
				VN	-20	-1.7	-0.000981	± 2.5	PASS
VN	-10			0.92	0.000531	± 2.5	PASS		
VN	0			-0.39	-0.000225	± 2.5	PASS		
VN	10			1.67	0.000964	± 2.5	PASS		
VN	20			0.4	0.000231	± 2.5	PASS		
VN	30			2.42	0.001397	± 2.5	PASS		
VN	40			2.67	0.001541	± 2.5	PASS		
VN	50			0.09	0.000052	± 2.5	PASS		
MCH	VN		-30	4.69	0.002684	± 2.5	PASS		
	VN		-20	2.79	0.001597	± 2.5	PASS		
	VN		-10	-1.02	-0.000584	± 2.5	PASS		
	VN		0	4.62	0.002644	± 2.5	PASS		
	VN		10	0.44	0.000252	± 2.5	PASS		
	VN		20	3.15	0.001803	± 2.5	PASS		
	VN		30	0	0.000000	± 2.5	PASS		
	VN	40	0.69	0.000395	± 2.5	PASS			
	VN	50	3.62	0.002072	± 2.5	PASS			
HCH	VN	-30	2.59	0.001482	± 2.5	PASS			
	VN	-20	3.81	0.002180	± 2.5	PASS			
	VN	-10	4.79	0.002741	± 2.5	PASS			
	VN	0	-1.37	-0.000784	± 2.5	PASS			
	VN	10	1.56	0.000893	± 2.5	PASS			
	VN	20	4.22	0.002415	± 2.5	PASS			
	VN	30	3.1	0.001774	± 2.5	PASS			
	VN	40	4.52	0.002587	± 2.5	PASS			
	VN	50	0.25	0.000143	± 2.5	PASS			

Channel Bandwidth: 20 MHz

Channel Bandwidth: 20 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	4.9	0.002849	± 2.5	PASS
		VN	TN	-0.32	-0.000186	± 2.5	PASS
		VH	TN	4.99	0.002901	± 2.5	PASS
	MCH	VL	TN	0.72	0.000416	± 2.5	PASS
		VN	TN	1.47	0.000848	± 2.5	PASS
		VH	TN	1.47	0.000848	± 2.5	PASS
	HCH	VL	TN	3.79	0.002172	± 2.5	PASS
		VN	TN	3.18	0.001822	± 2.5	PASS
		VH	TN	3.84	0.002201	± 2.5	PASS
16QAM	LCH	VL	TN	0.03	0.000017	± 2.5	PASS
		VN	TN	2.75	0.001599	± 2.5	PASS
		VH	TN	3.1	0.001802	± 2.5	PASS
	MCH	VL	TN	2.78	0.001605	± 2.5	PASS
		VN	TN	4	0.002309	± 2.5	PASS
		VH	TN	1.74	0.001004	± 2.5	PASS
	HCH	VL	TN	2.8	0.001605	± 2.5	PASS
		VN	TN	4.12	0.002361	± 2.5	PASS
		VH	TN	2.1	0.001203	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-1.23	-0.000715	± 2.5	PASS
		VN	-20	3.17	0.001843	± 2.5	PASS
		VN	-10	4.55	0.002645	± 2.5	PASS
		VN	0	0.24	0.000140	± 2.5	PASS
		VN	10	0.02	0.000012	± 2.5	PASS
		VN	20	1.17	0.000680	± 2.5	PASS
		VN	30	-1.89	-0.001099	± 2.5	PASS
		VN	40	-0.8	-0.000465	± 2.5	PASS
		VN	50	3.02	0.001756	± 2.5	PASS
	MCH	VN	-30	-0.45	-0.000260	± 2.5	PASS
		VN	-20	1.53	0.000883	± 2.5	PASS
		VN	-10	0.82	0.000473	± 2.5	PASS
		VN	0	0.32	0.000185	± 2.5	PASS
		VN	10	4.37	0.002522	± 2.5	PASS

		VN	20	4.73	0.002730	± 2.5	PASS
		VN	30	2.07	0.001195	± 2.5	PASS
		VN	40	0.17	0.000098	± 2.5	PASS
		VN	50	-1.9	-0.001097	± 2.5	PASS
	HCH	VN	-30	-1.69	-0.000968	± 2.5	PASS
		VN	-20	-0.01	-0.000006	± 2.5	PASS
		VN	-10	3.97	0.002275	± 2.5	PASS
		VN	0	3.48	0.001994	± 2.5	PASS
		VN	10	3.64	0.002086	± 2.5	PASS
		VN	20	-0.12	-0.000069	± 2.5	PASS
		VN	30	4.89	0.002802	± 2.5	PASS
		VN	40	1.55	0.000888	± 2.5	PASS
		VN	50	4.99	0.002860	± 2.5	PASS
16QAM	LCH	VN	-30	0.21	0.000121	± 2.5	PASS
		VN	-20	2.72	0.001570	± 2.5	PASS
		VN	-10	-0.51	-0.000294	± 2.5	PASS
		VN	0	-0.18	-0.000104	± 2.5	PASS
		VN	10	2.13	0.001229	± 2.5	PASS
		VN	20	2.91	0.001680	± 2.5	PASS
		VN	30	1.84	0.001062	± 2.5	PASS
		VN	40	2.58	0.001489	± 2.5	PASS
		VN	50	1.64	0.000947	± 2.5	PASS
	MCH	VN	-30	3.44	0.001971	± 2.5	PASS
		VN	-20	4.34	0.002487	± 2.5	PASS
		VN	-10	1.88	0.001077	± 2.5	PASS
		VN	0	2.48	0.001421	± 2.5	PASS
		VN	10	-0.81	-0.000464	± 2.5	PASS
		VN	20	2.25	0.001289	± 2.5	PASS
		VN	30	-1.47	-0.000842	± 2.5	PASS
		VN	40	1.75	0.001003	± 2.5	PASS
		VN	50	2.71	0.001553	± 2.5	PASS
	HCH	VN	-30	-0.05	-0.000029	± 2.5	PASS
		VN	-20	3.78	0.002166	± 2.5	PASS
		VN	-10	4.96	0.002842	± 2.5	PASS
		VN	0	-1.26	-0.000722	± 2.5	PASS
		VN	10	3.16	0.001811	± 2.5	PASS
		VN	20	0.03	0.000017	± 2.5	PASS
		VN	30	0.67	0.000384	± 2.5	PASS
		VN	40	4.1	0.002350	± 2.5	PASS
		VN	50	-1.05	-0.000602	± 2.5	PASS