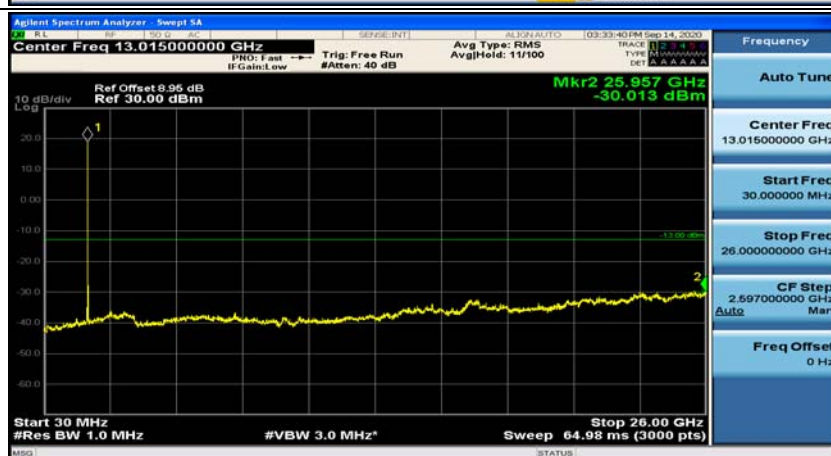
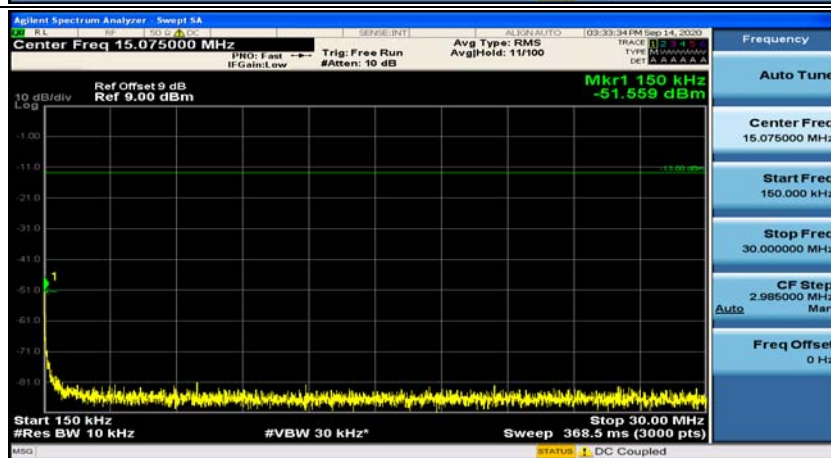
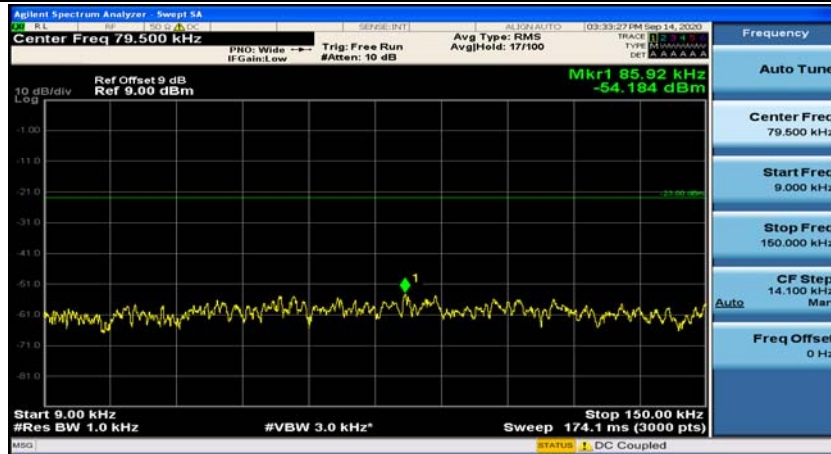
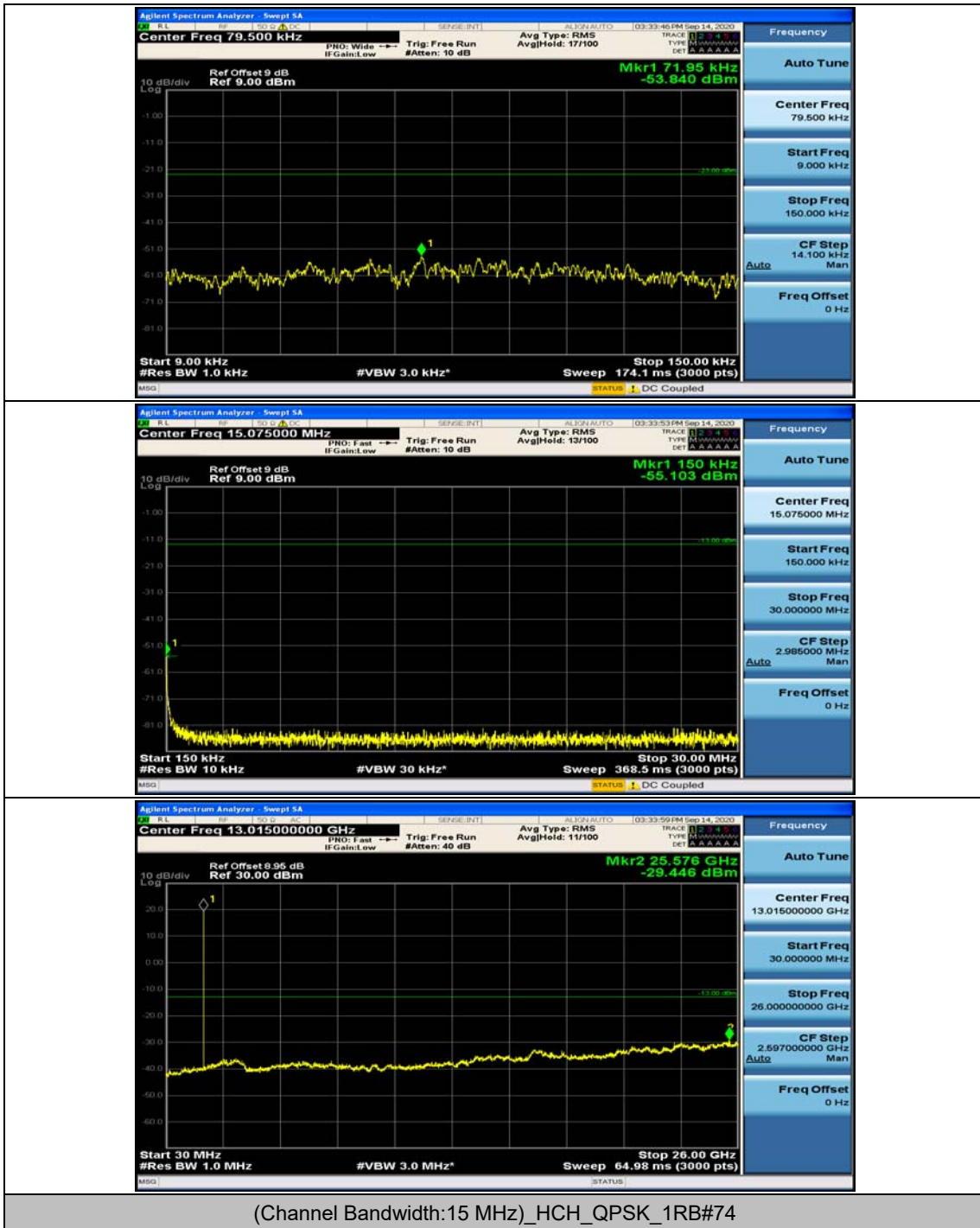


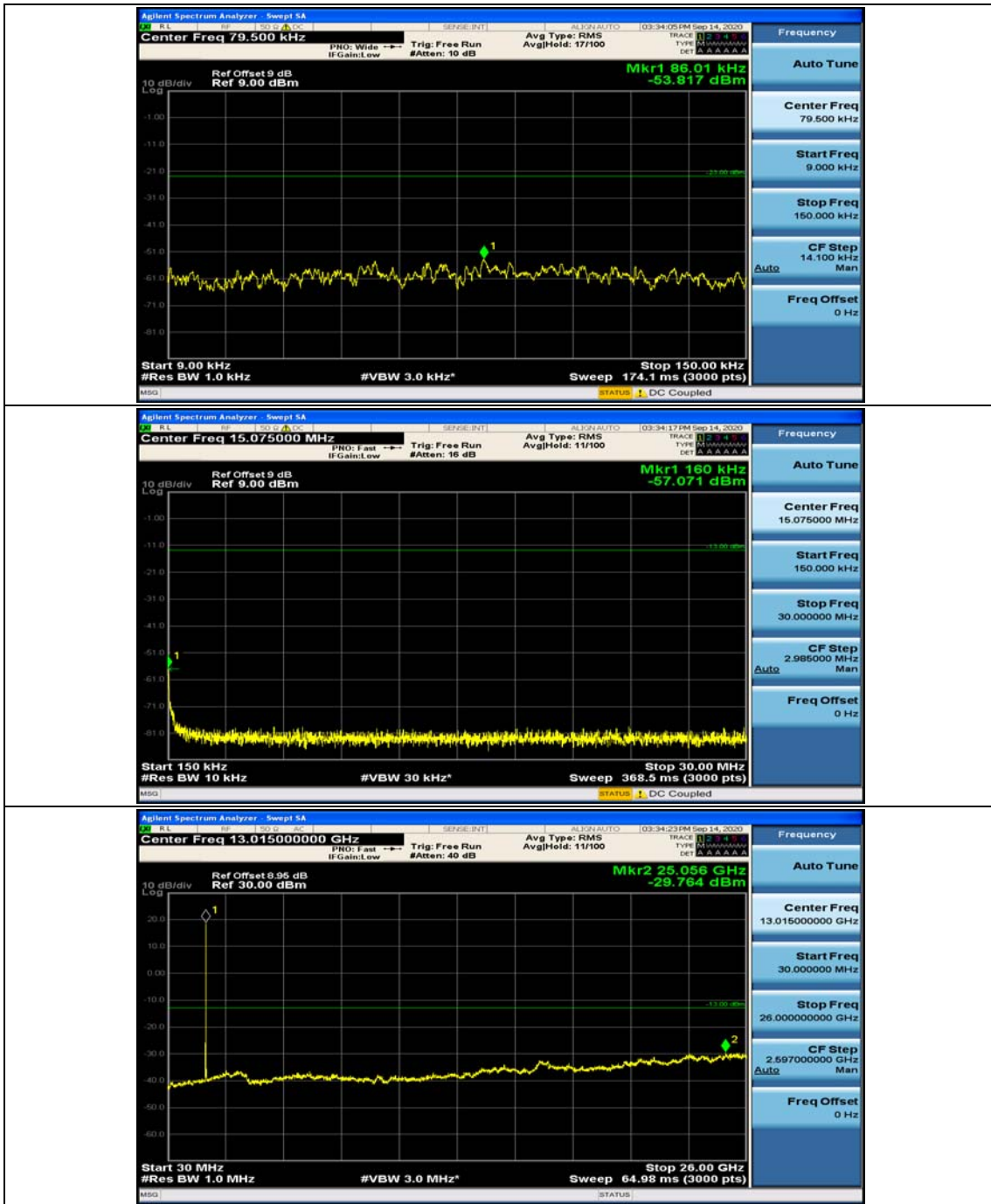
(Channel Bandwidth:15 MHz)\_HCH\_QPSK\_1RB#0

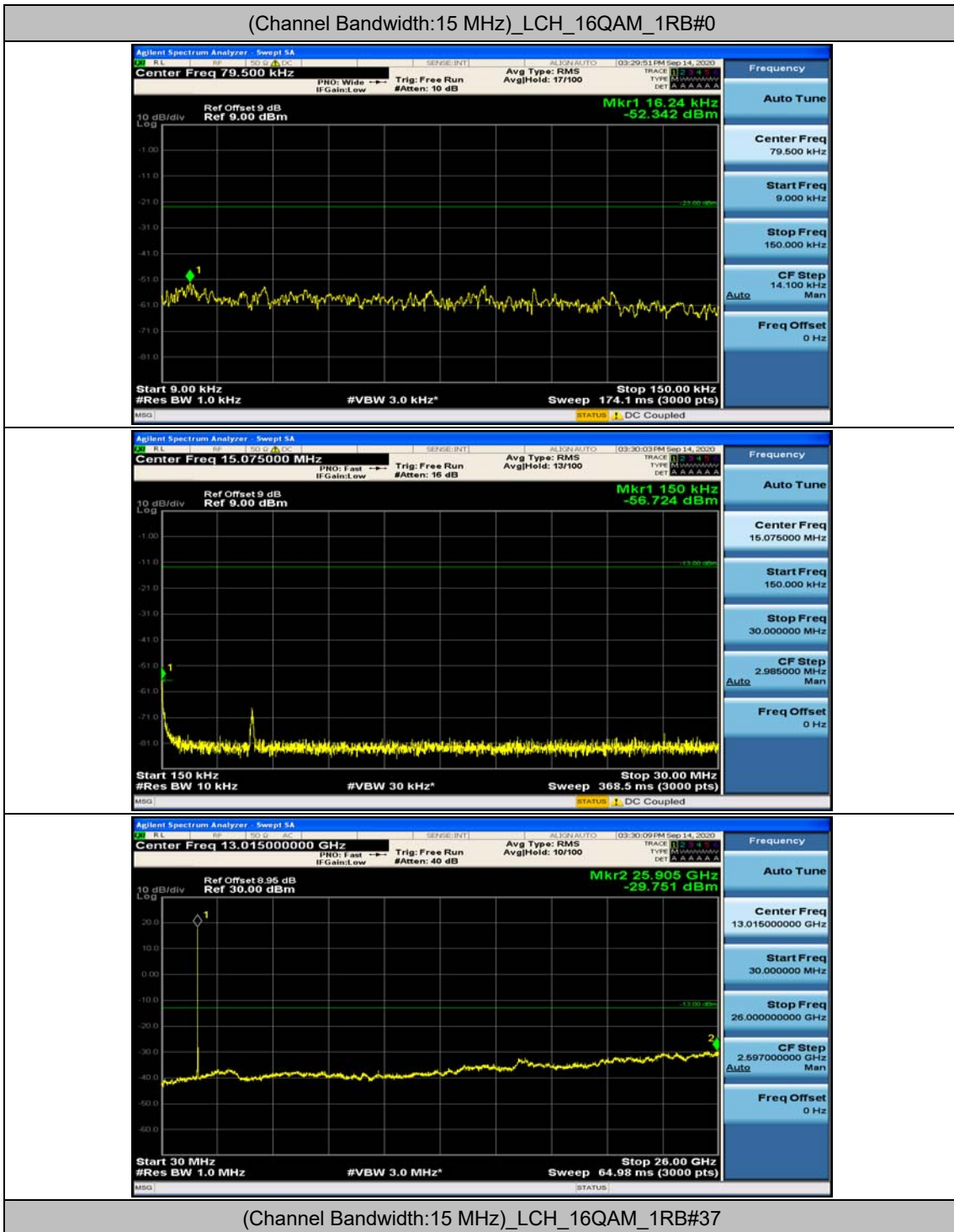


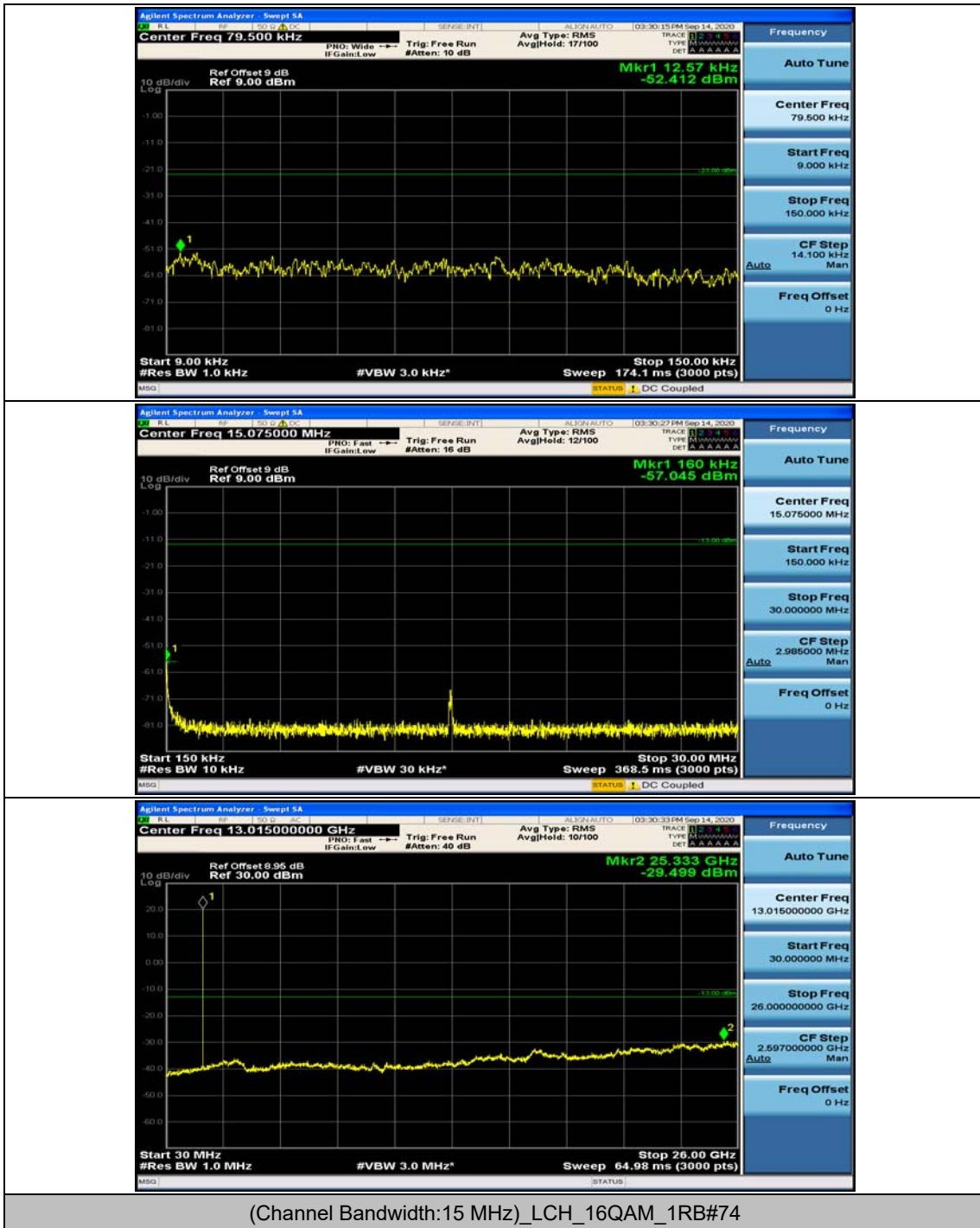
(Channel Bandwidth:15 MHz)\_HCH\_QPSK\_1RB#37



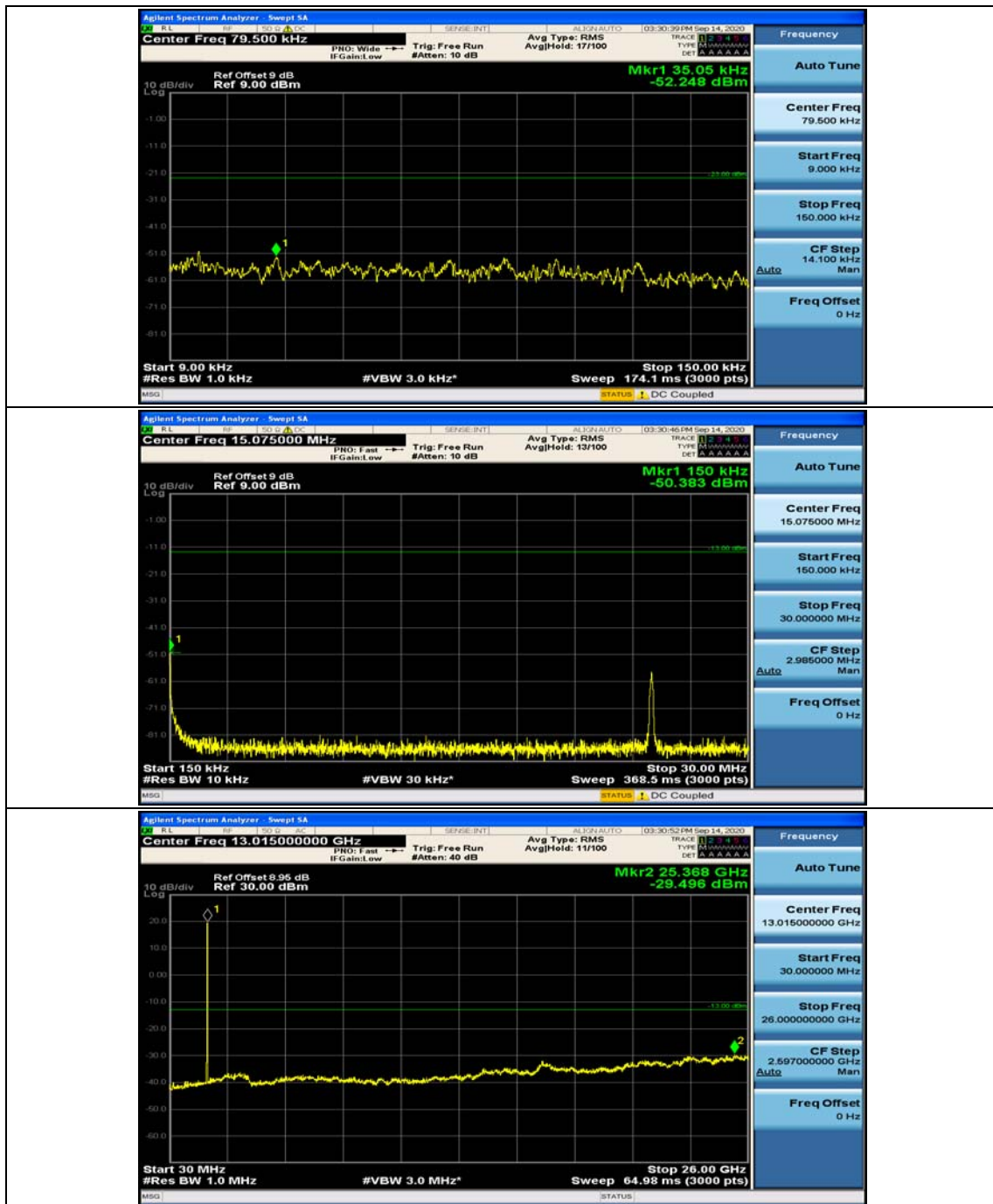
(Channel Bandwidth:15 MHz)\_HCH\_QPSK\_1RB#74



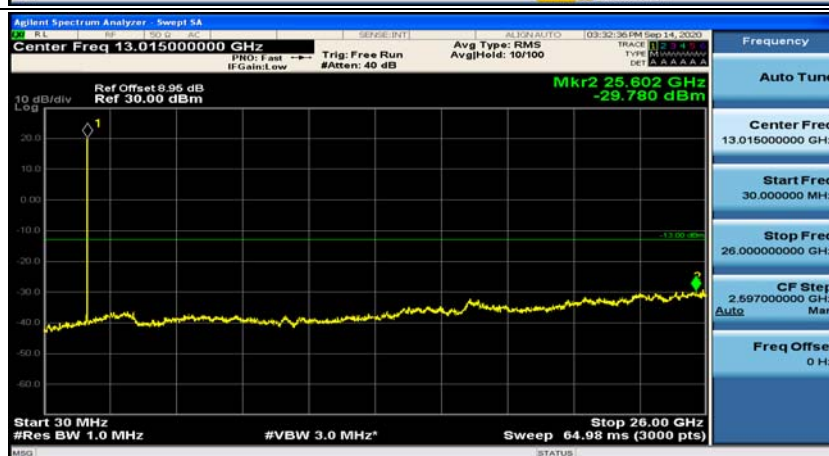
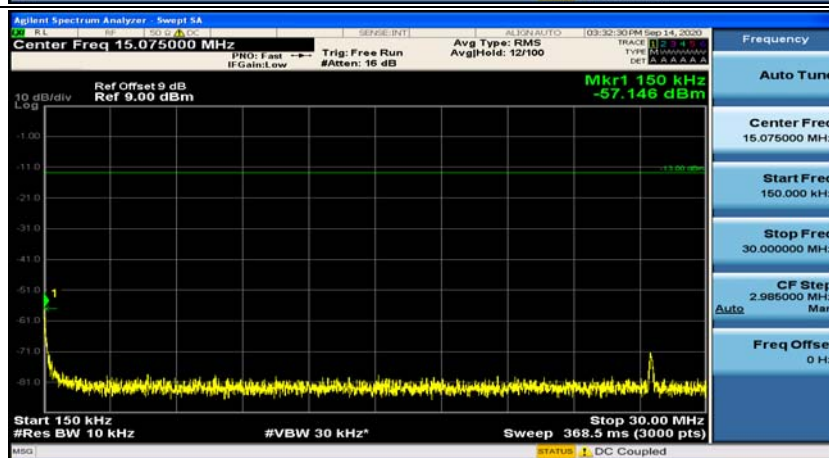




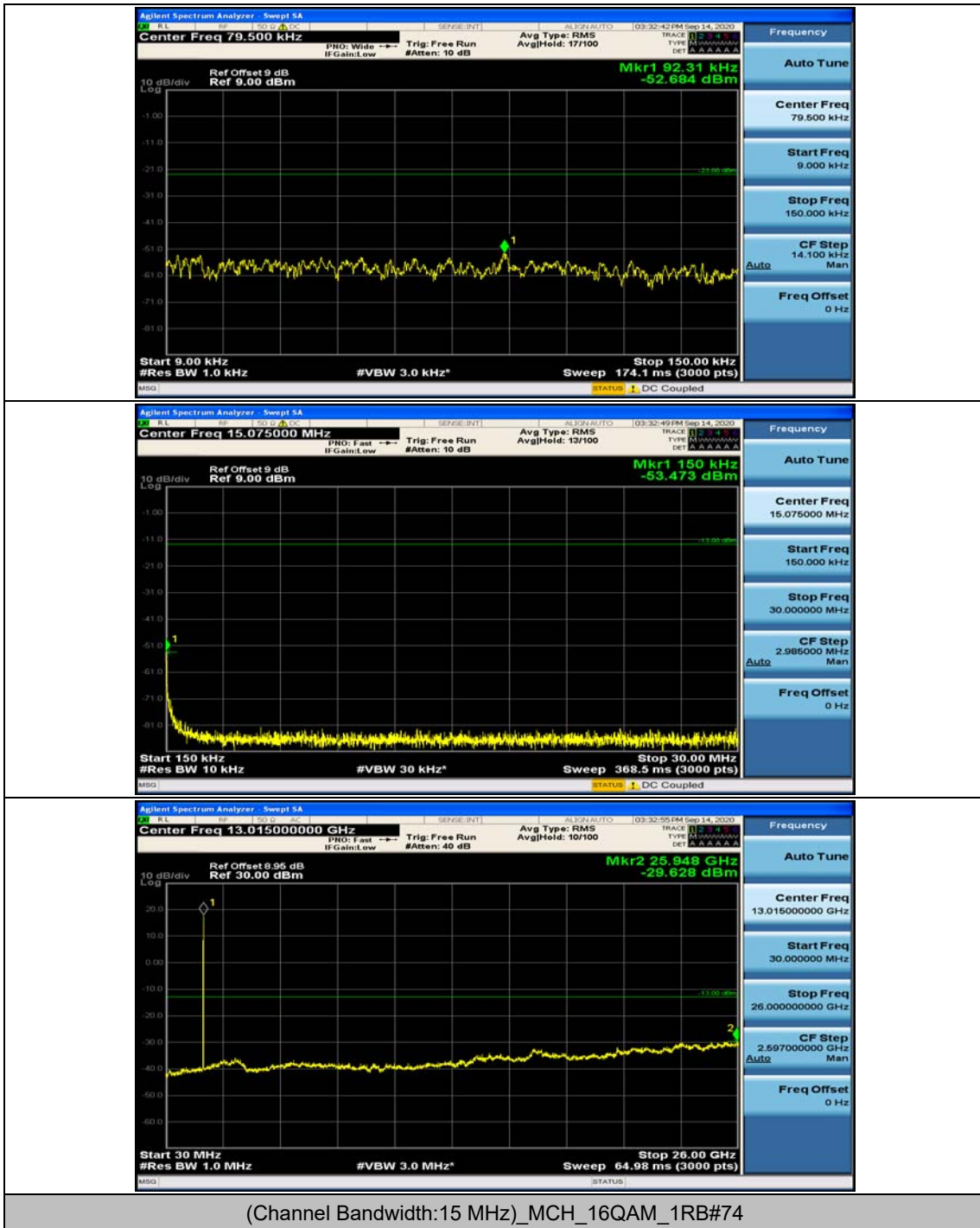




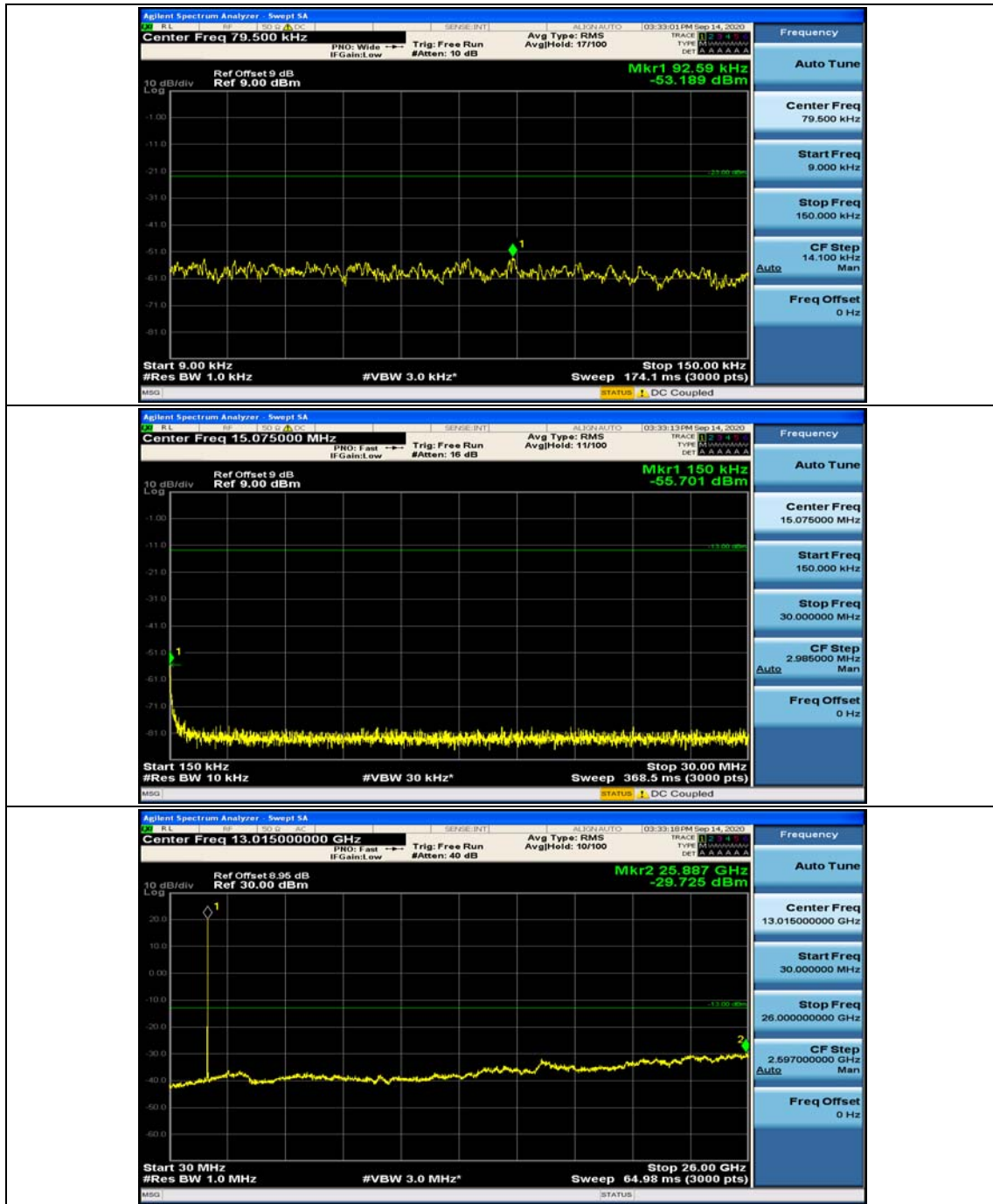
(Channel Bandwidth:15 MHz)\_MCH\_16QAM\_1RB#0

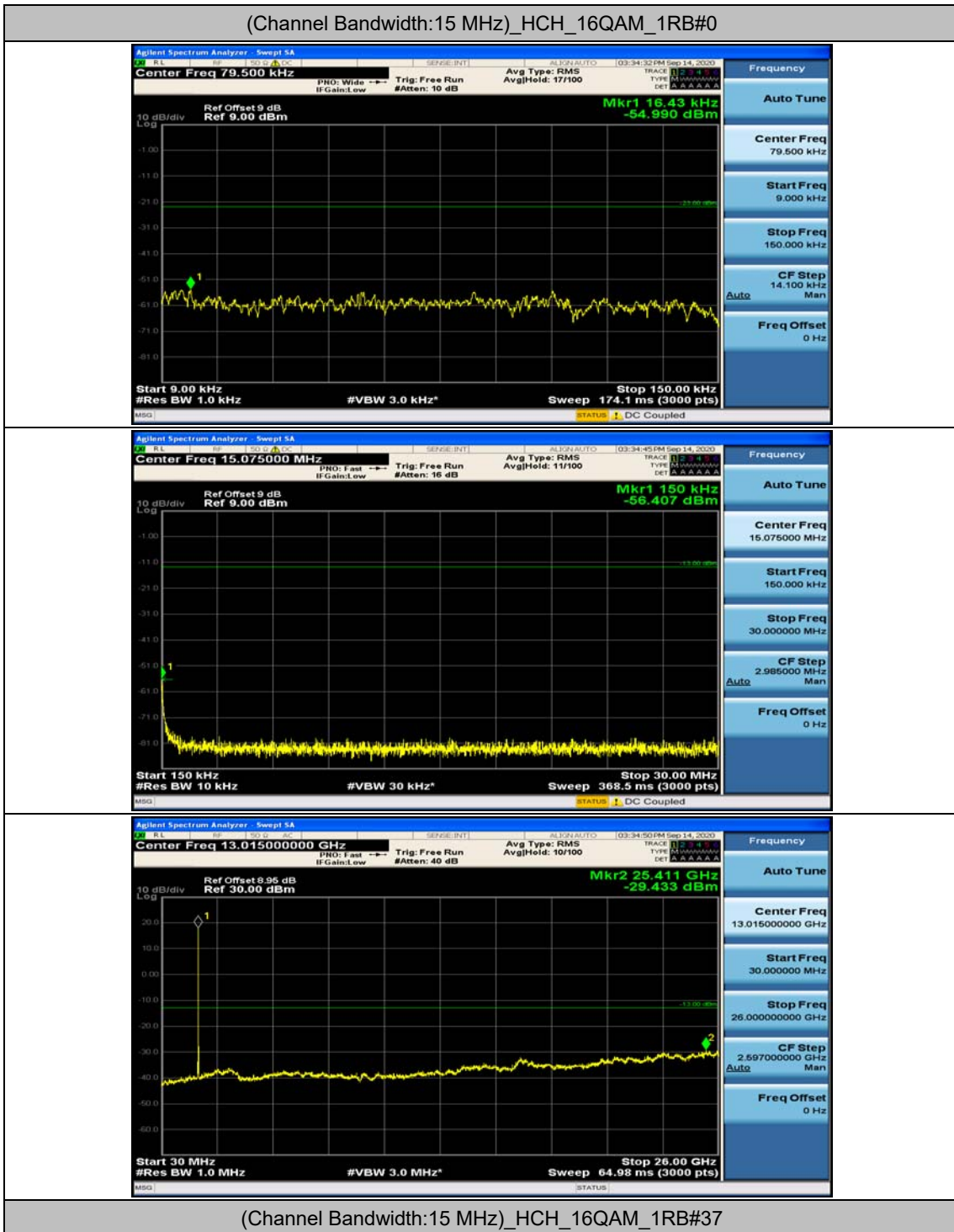


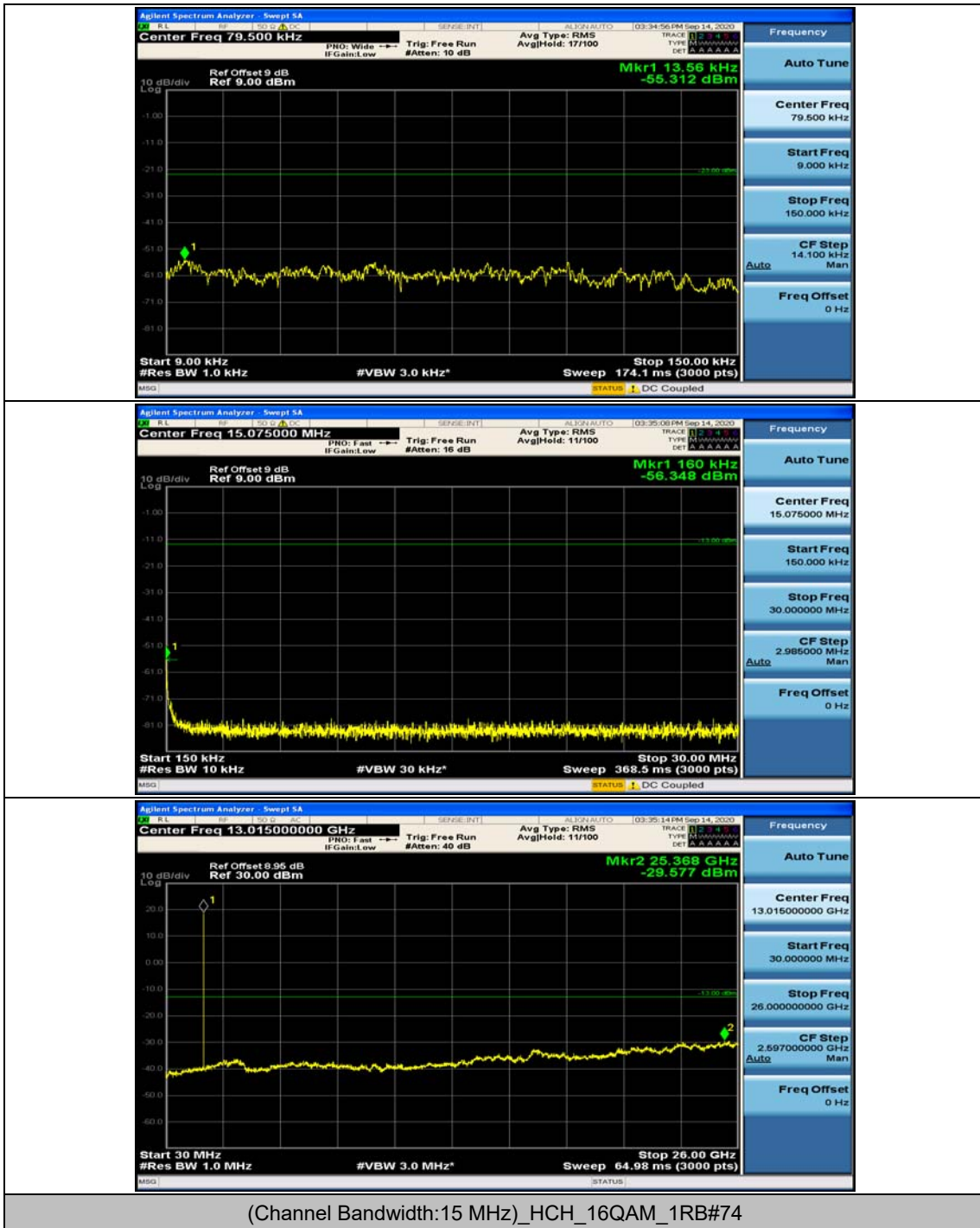
(Channel Bandwidth:15 MHz)\_MCH\_16QAM\_1RB#37

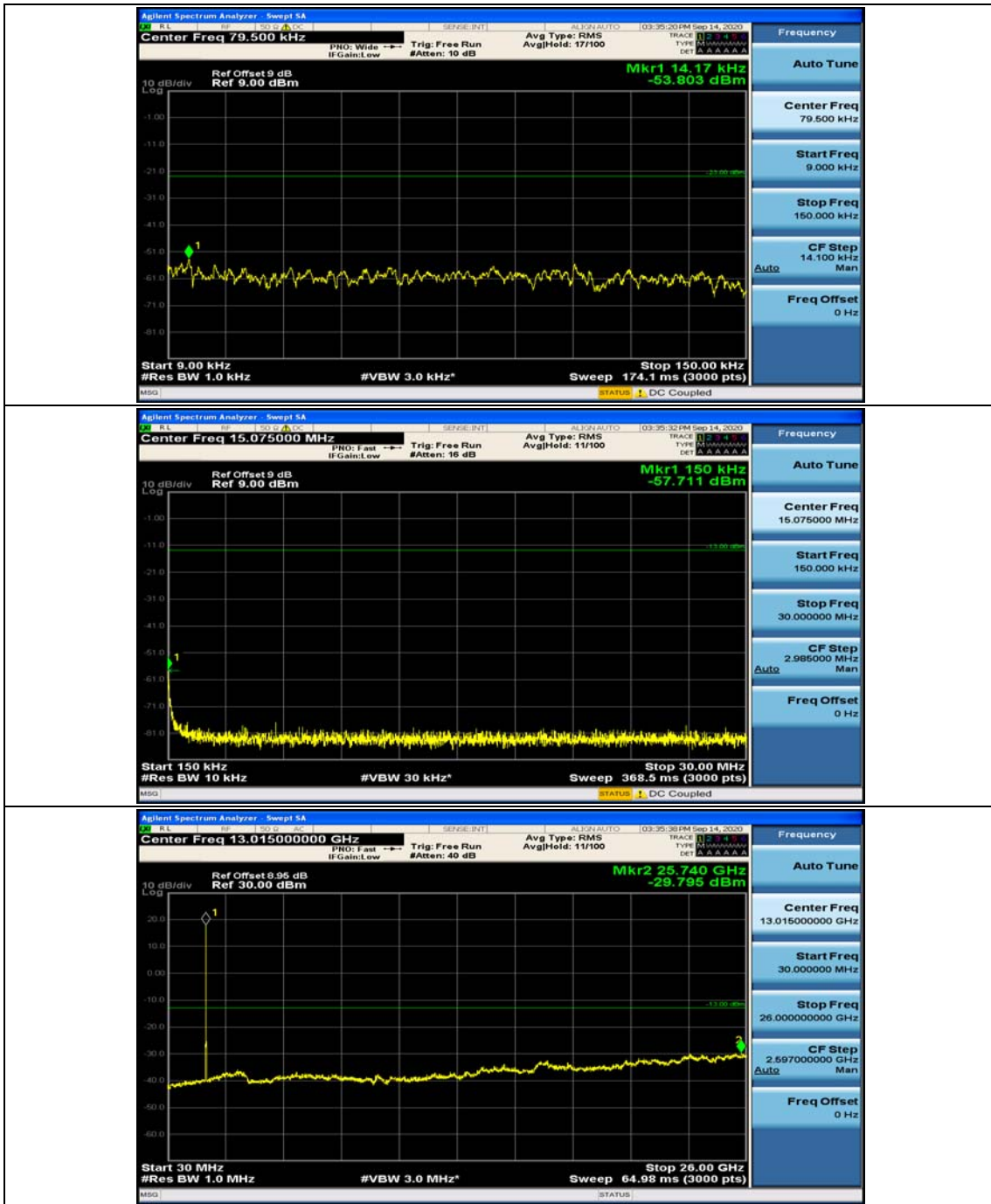




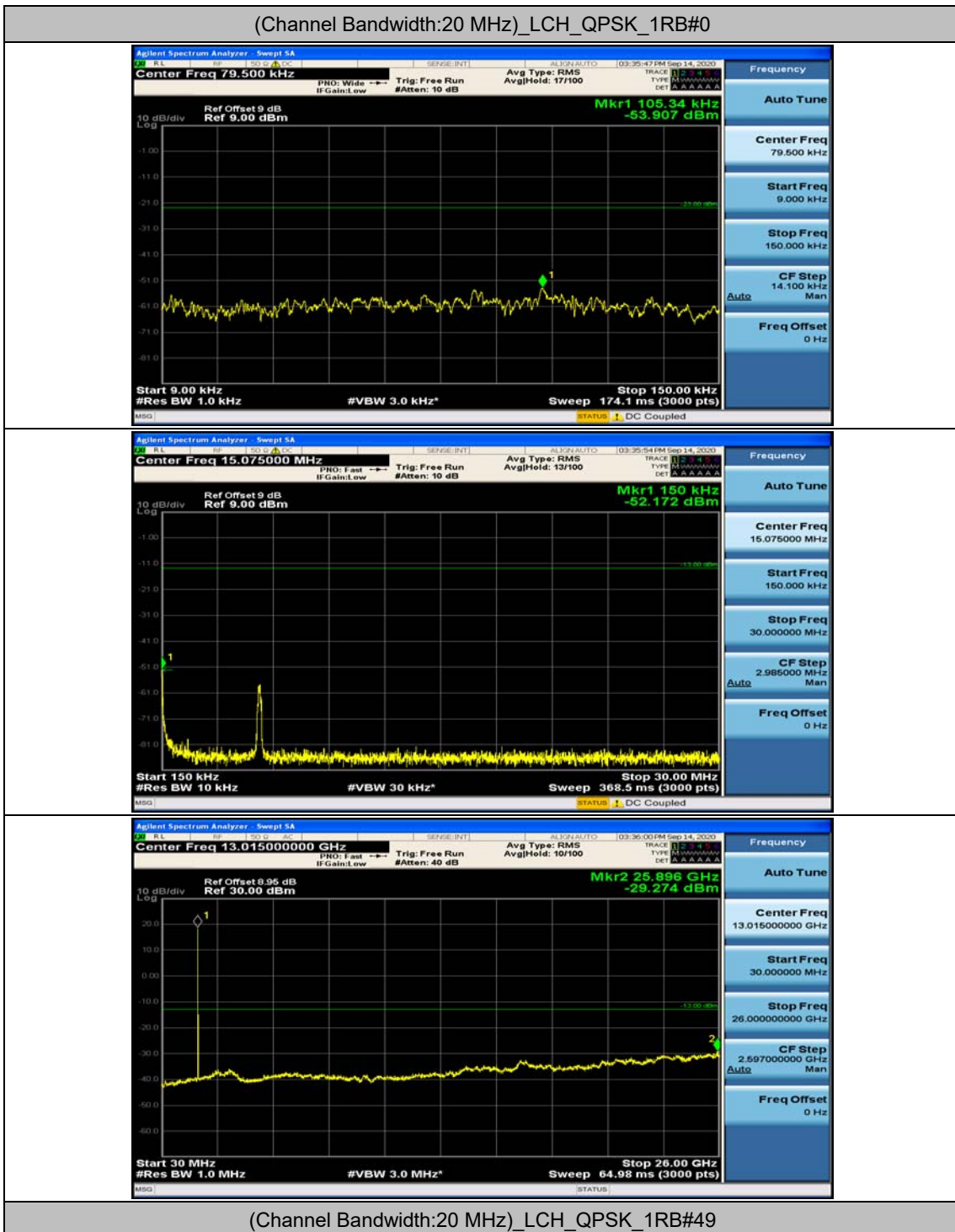




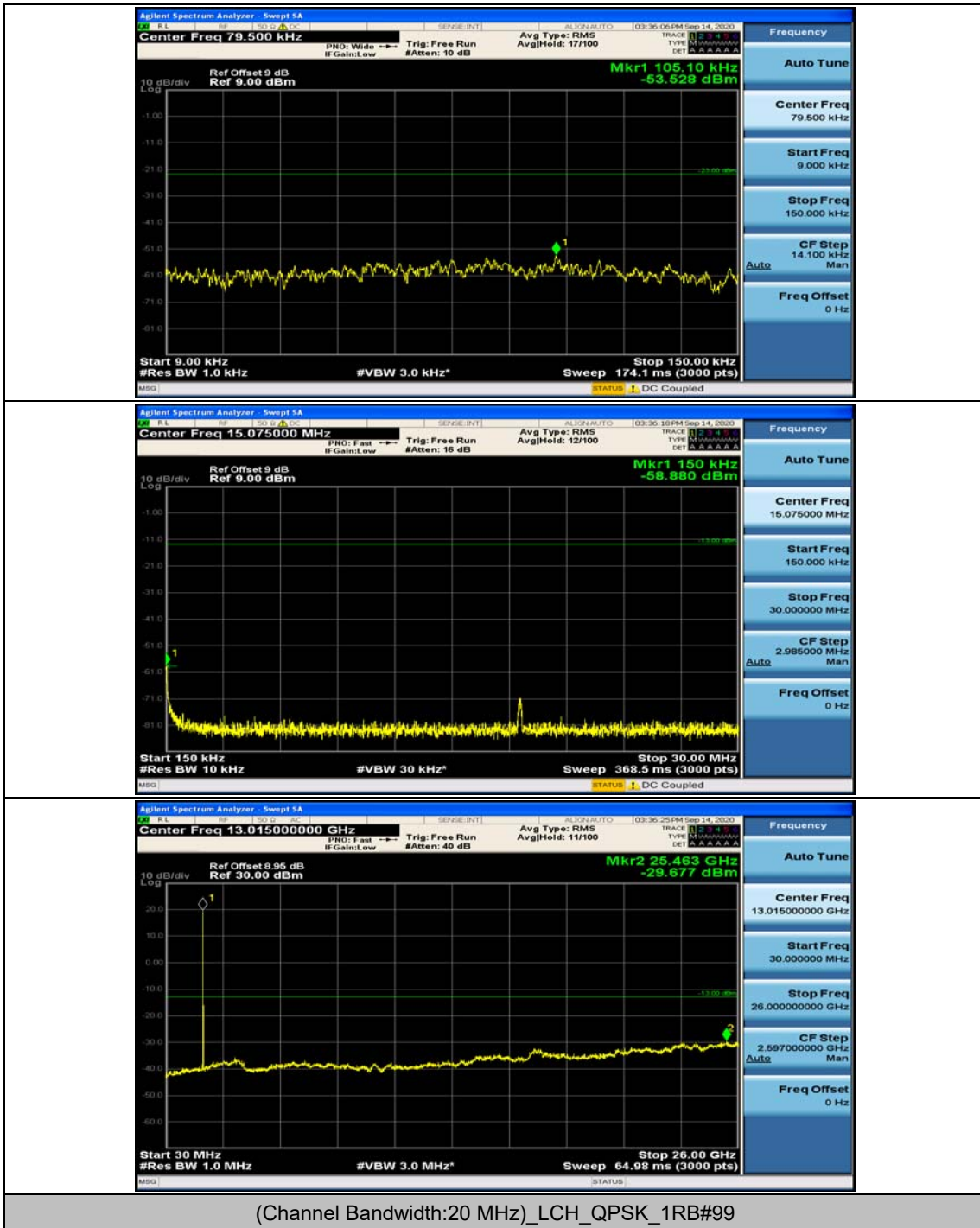


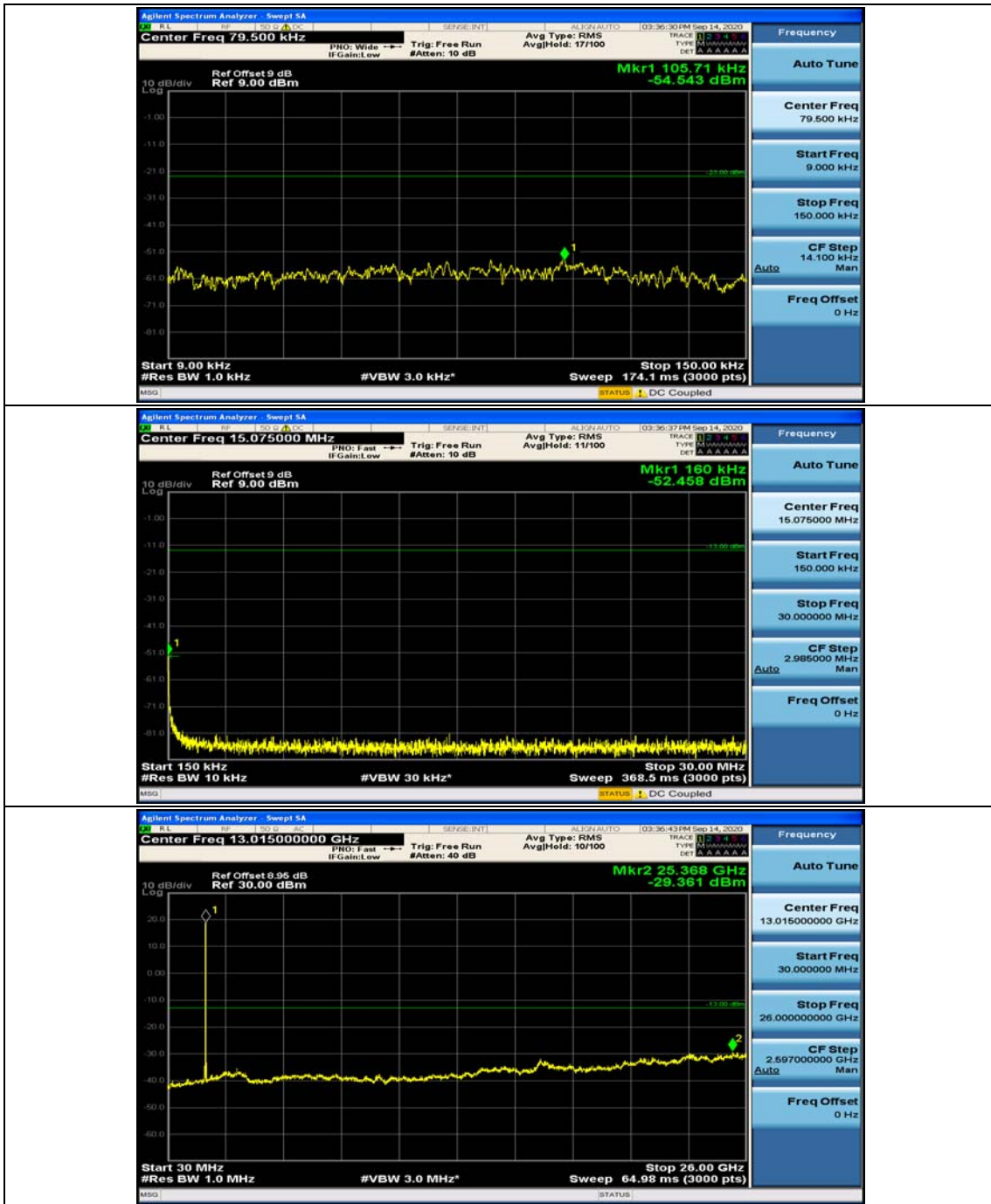


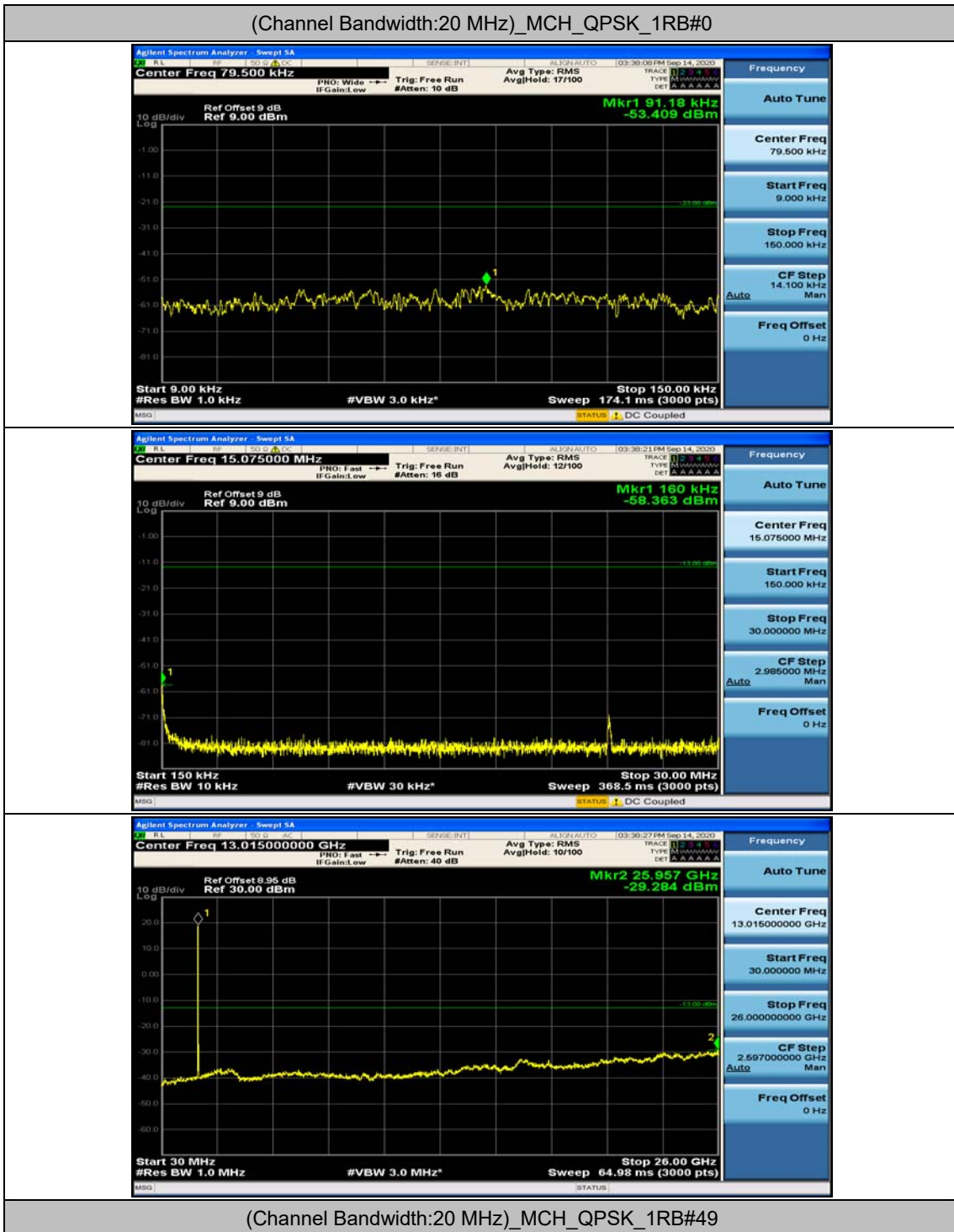
**Channel Bandwidth: 20 MHz**

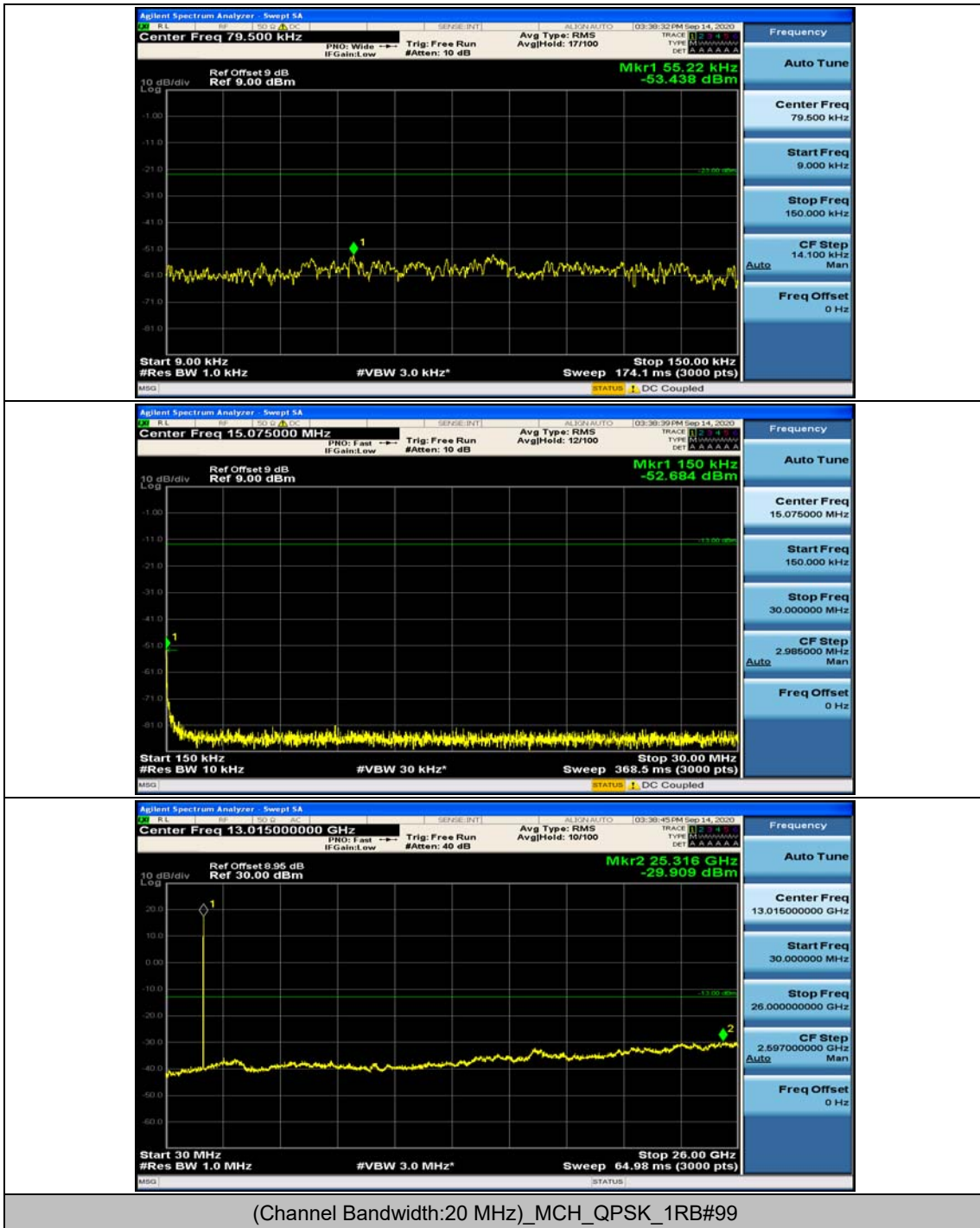


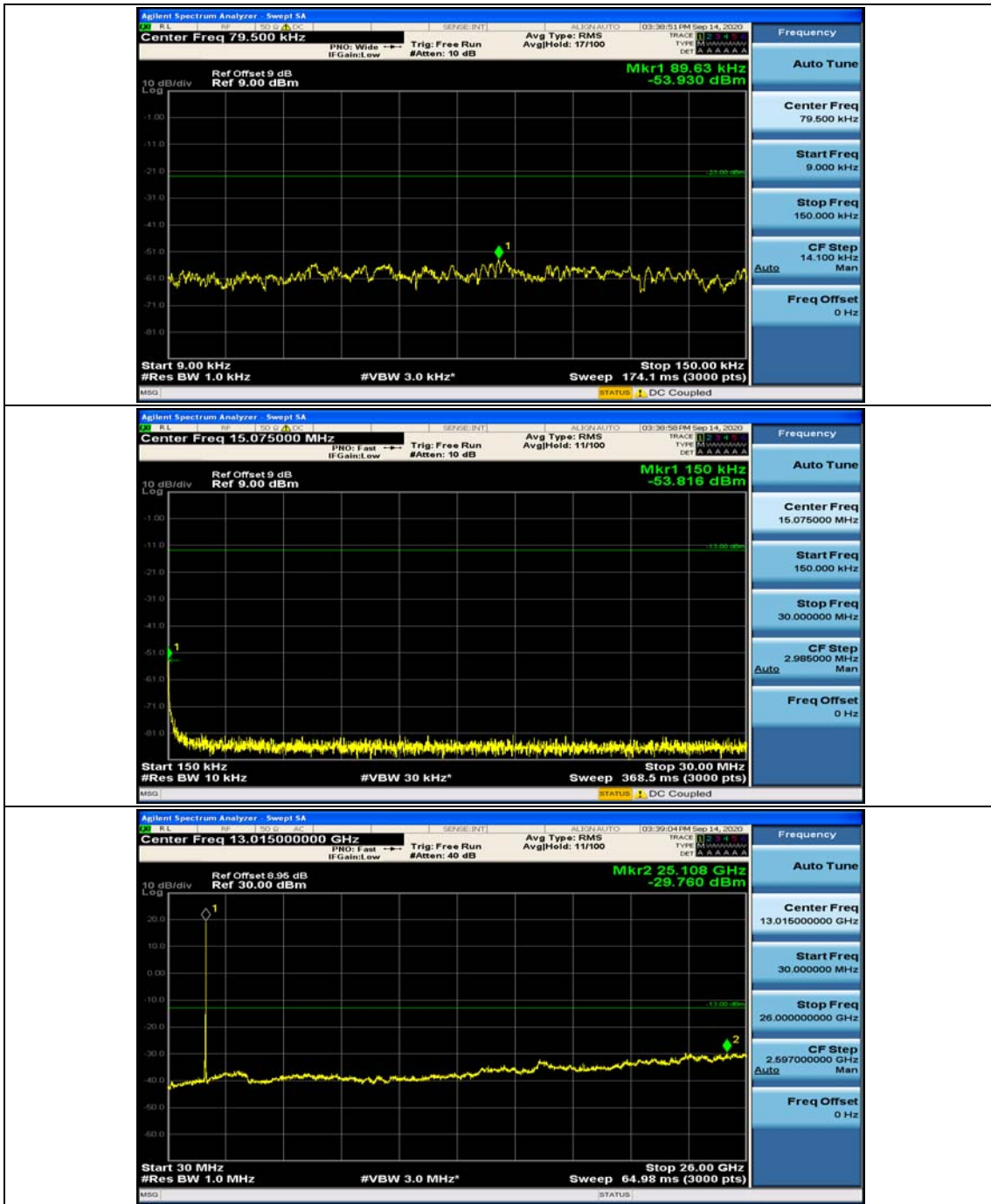






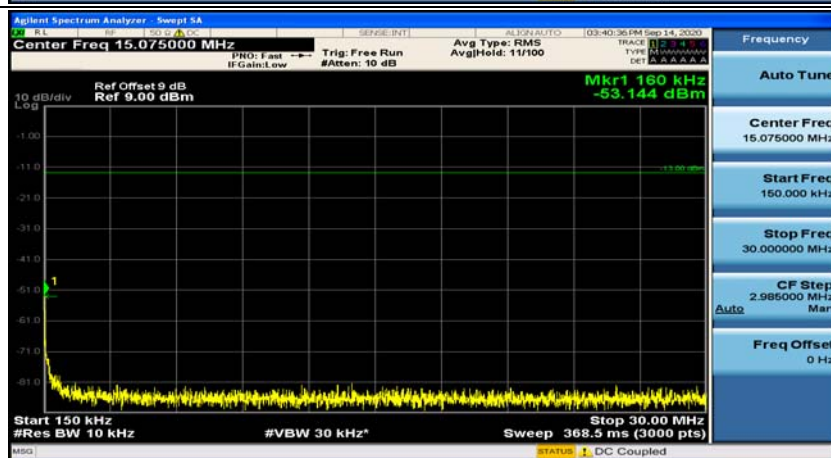
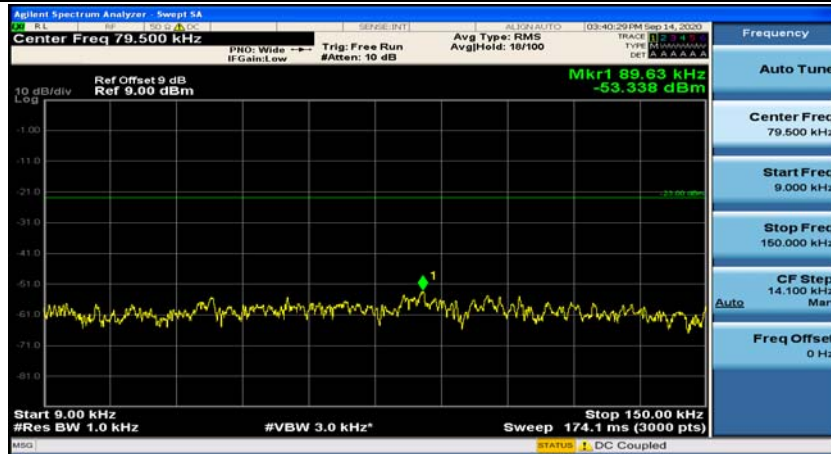




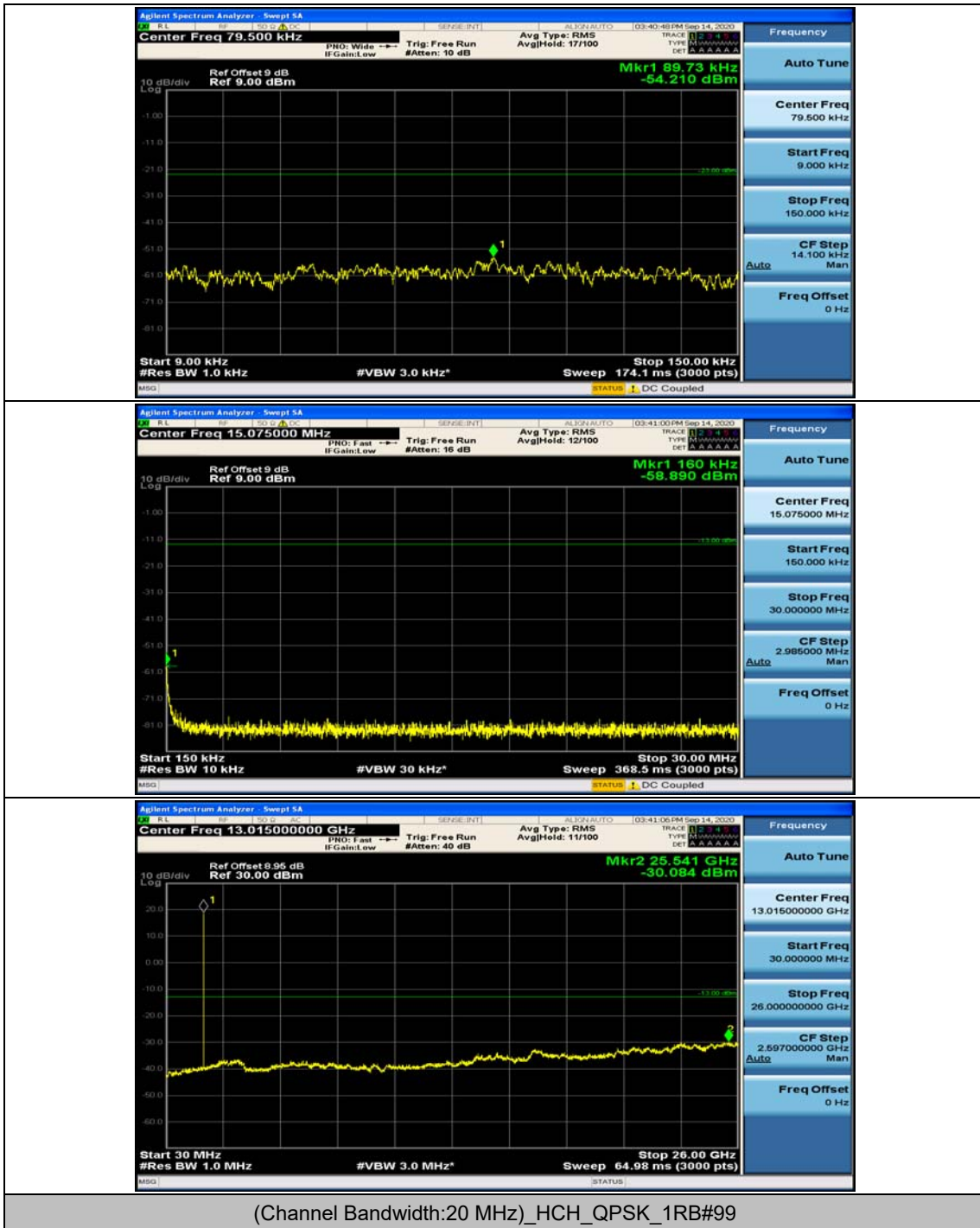


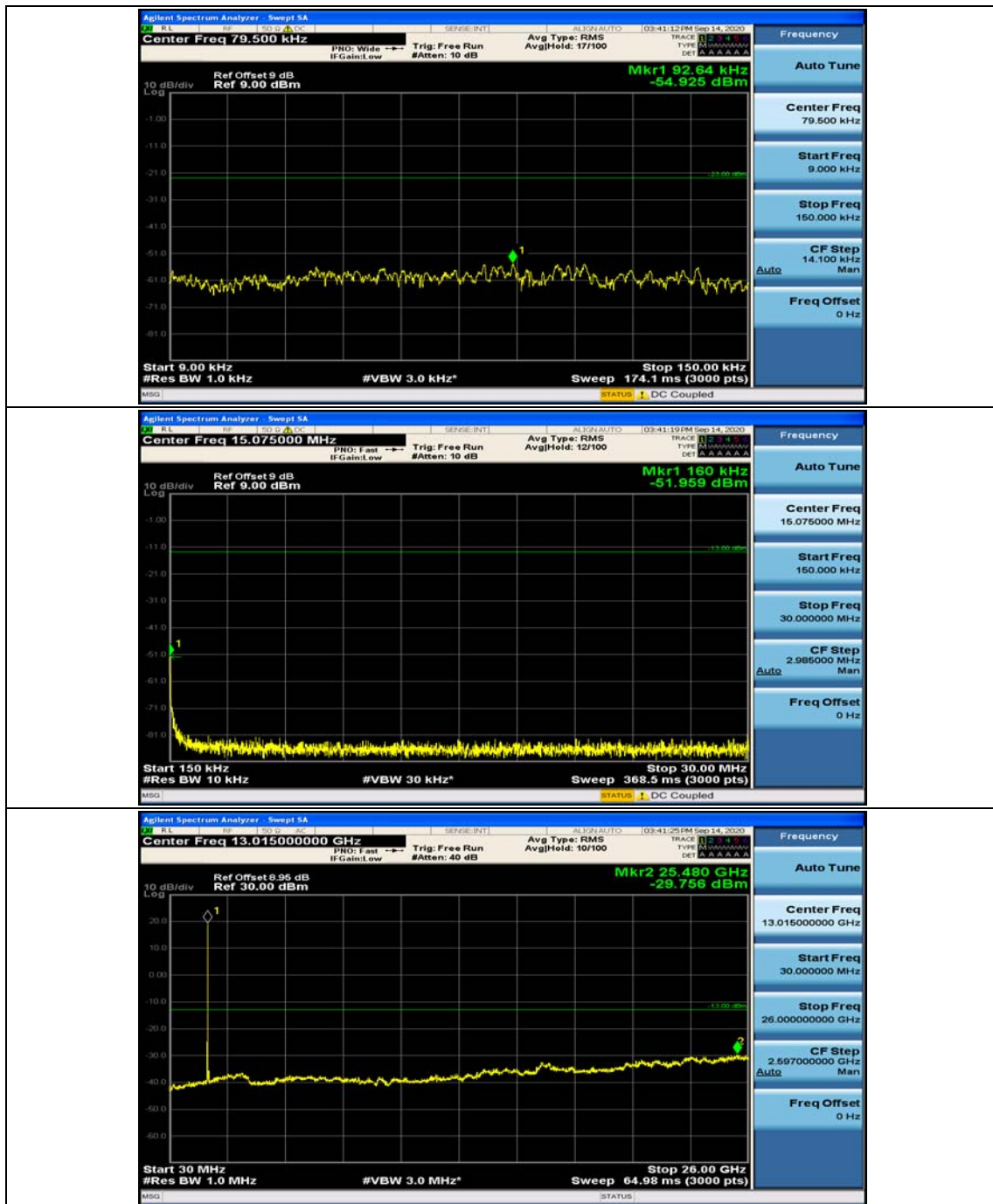


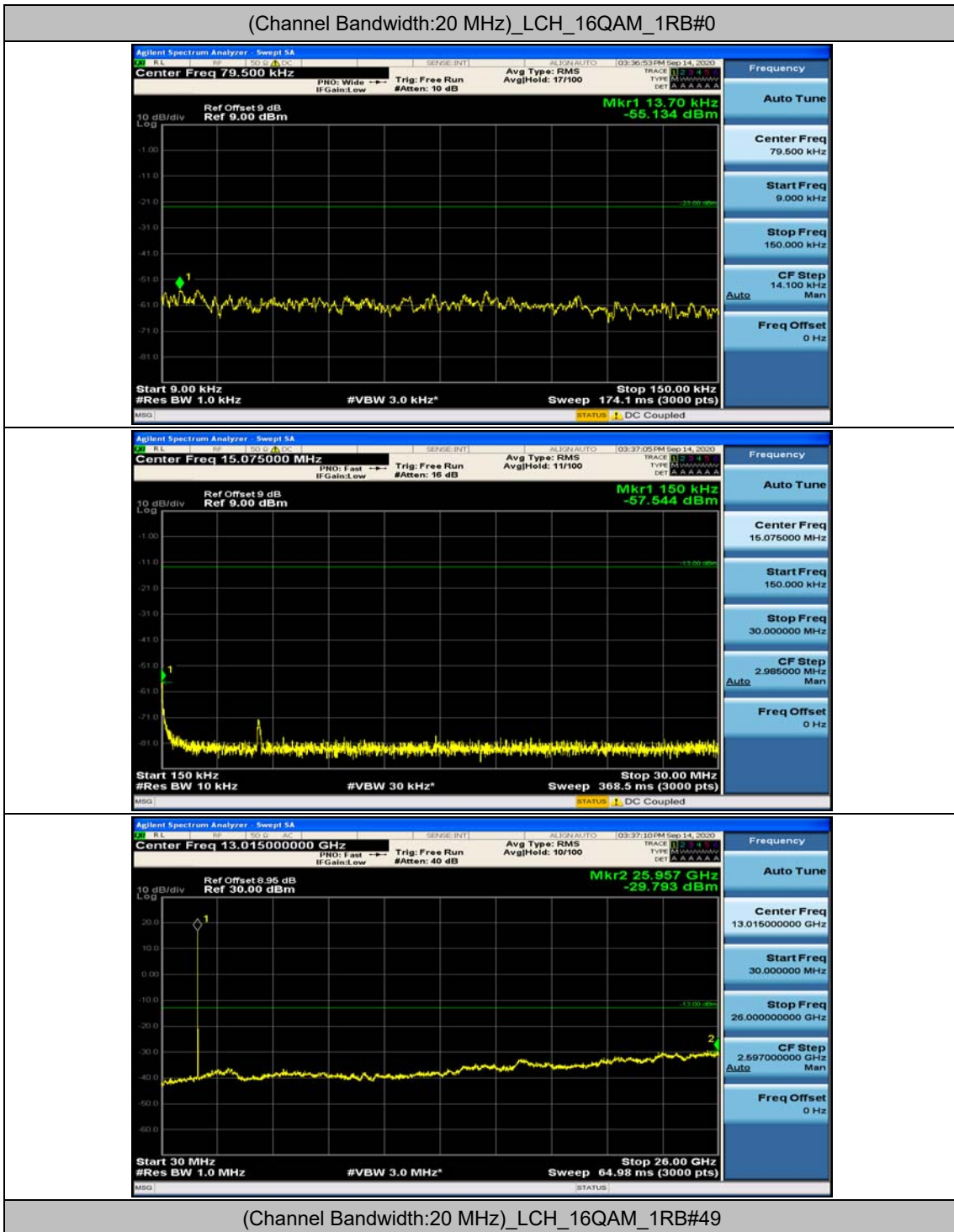
(Channel Bandwidth:20 MHz)\_HCH\_QPSK\_1RB#0

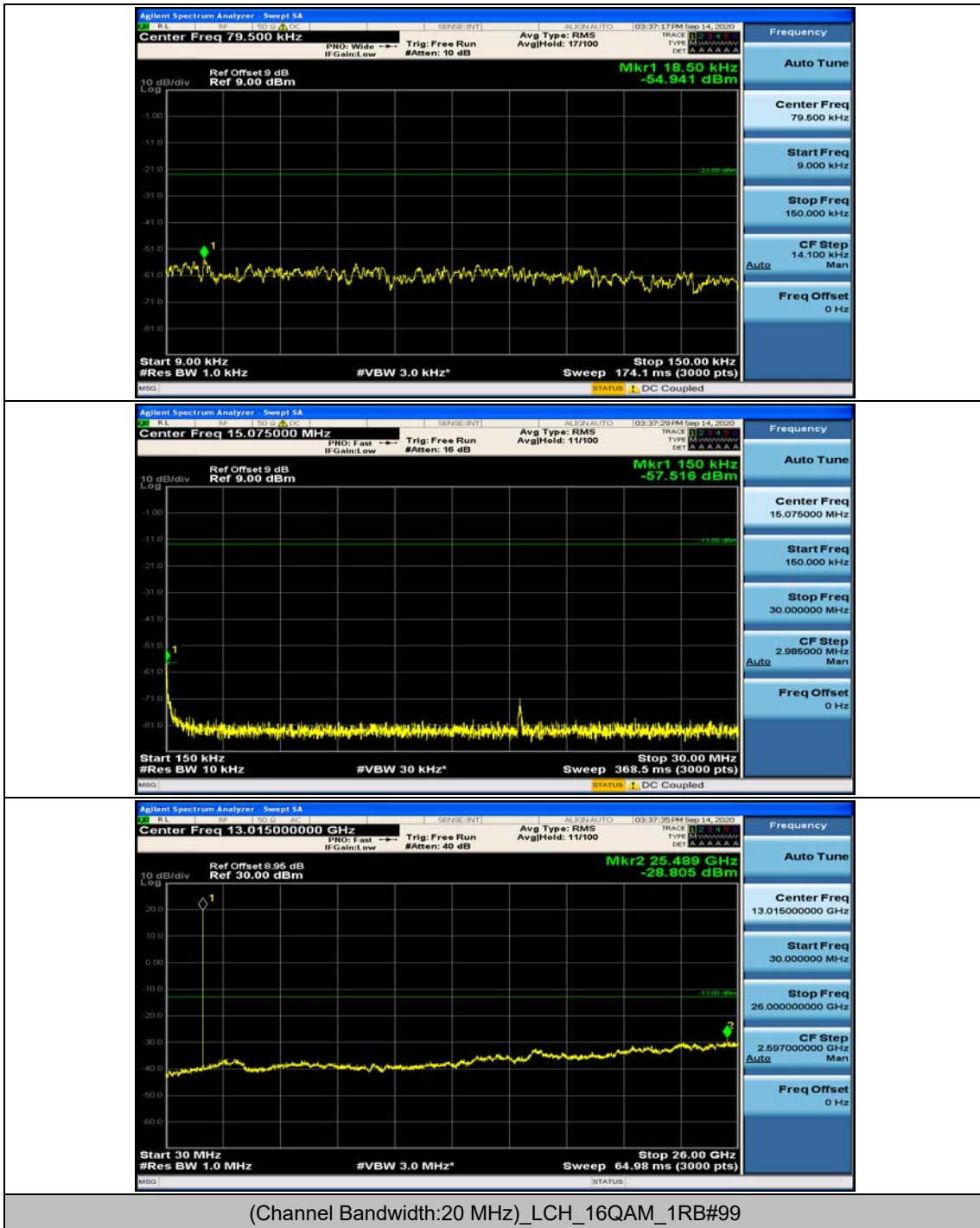


(Channel Bandwidth:20 MHz)\_HCH\_QPSK\_1RB#49

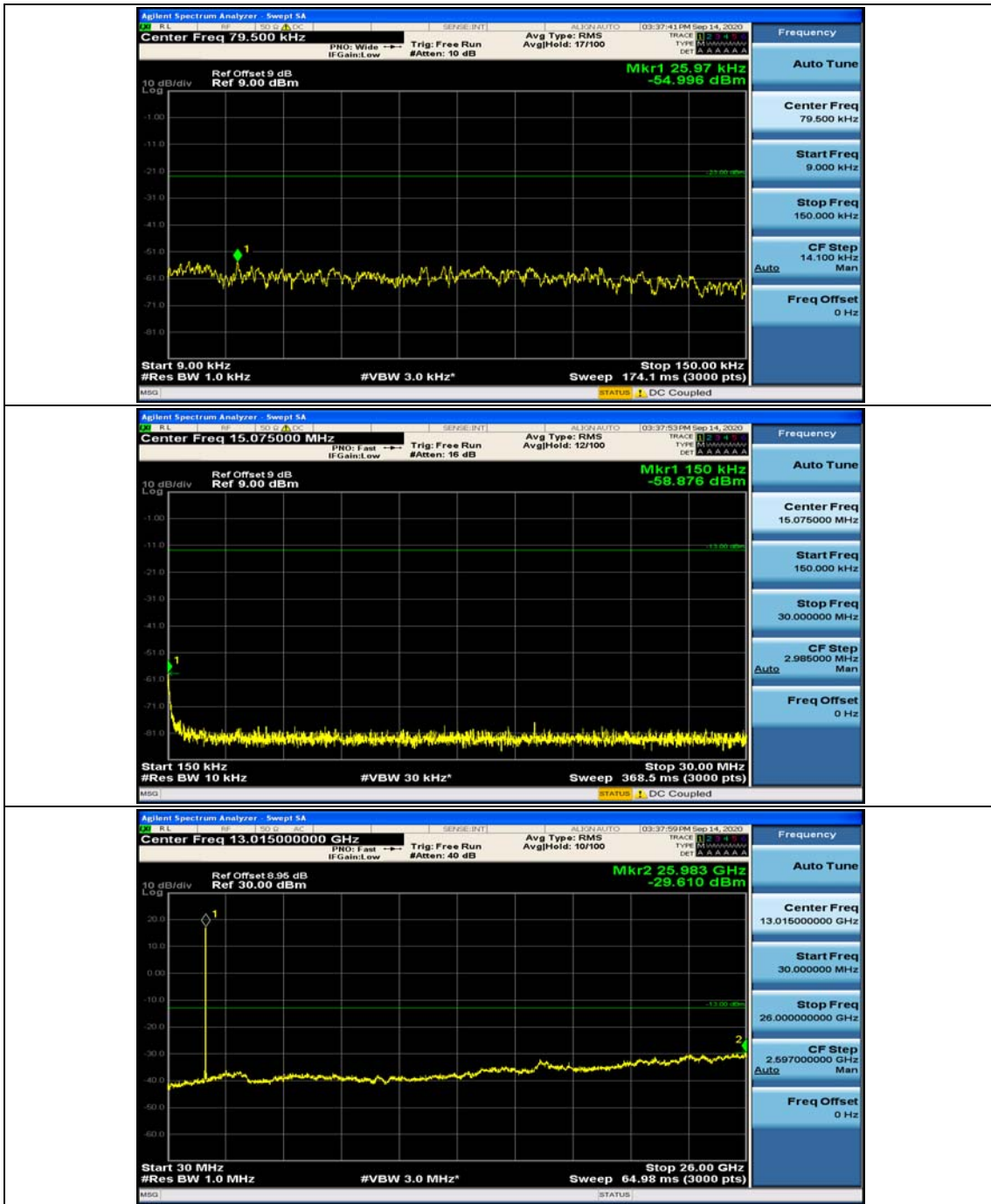




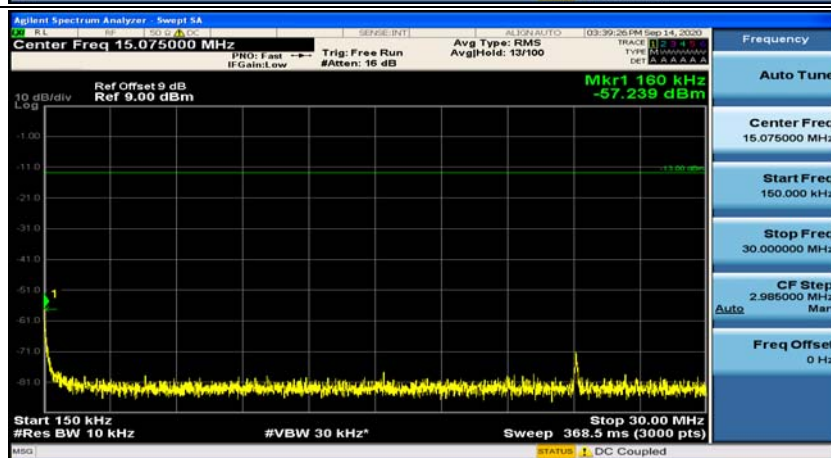
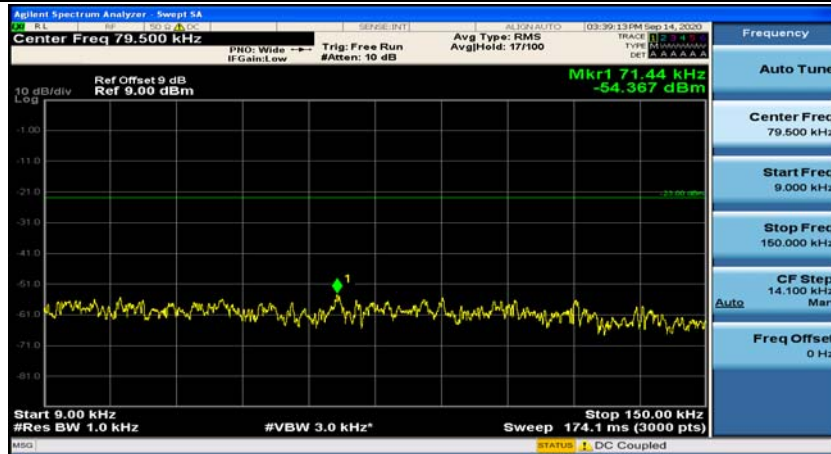




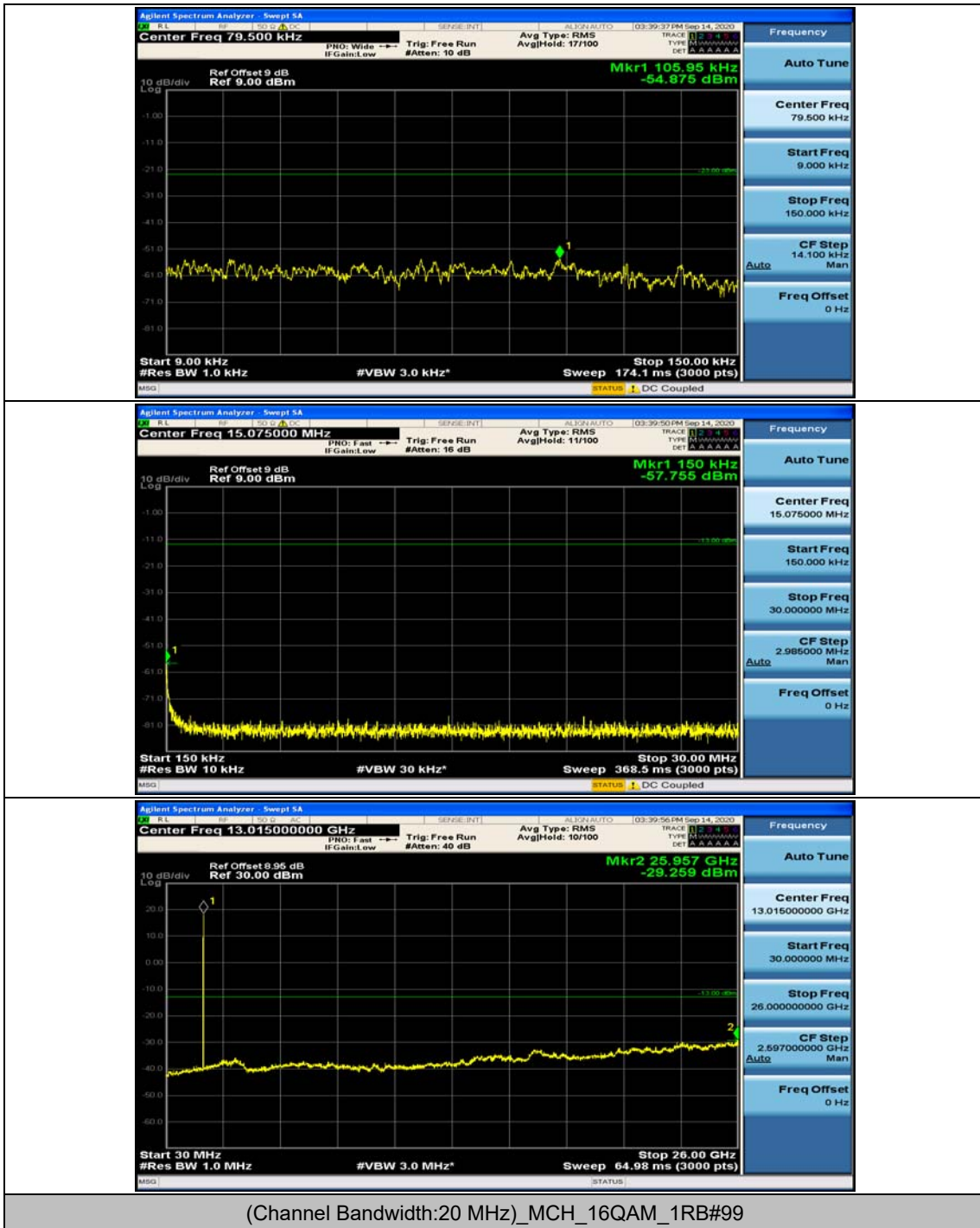


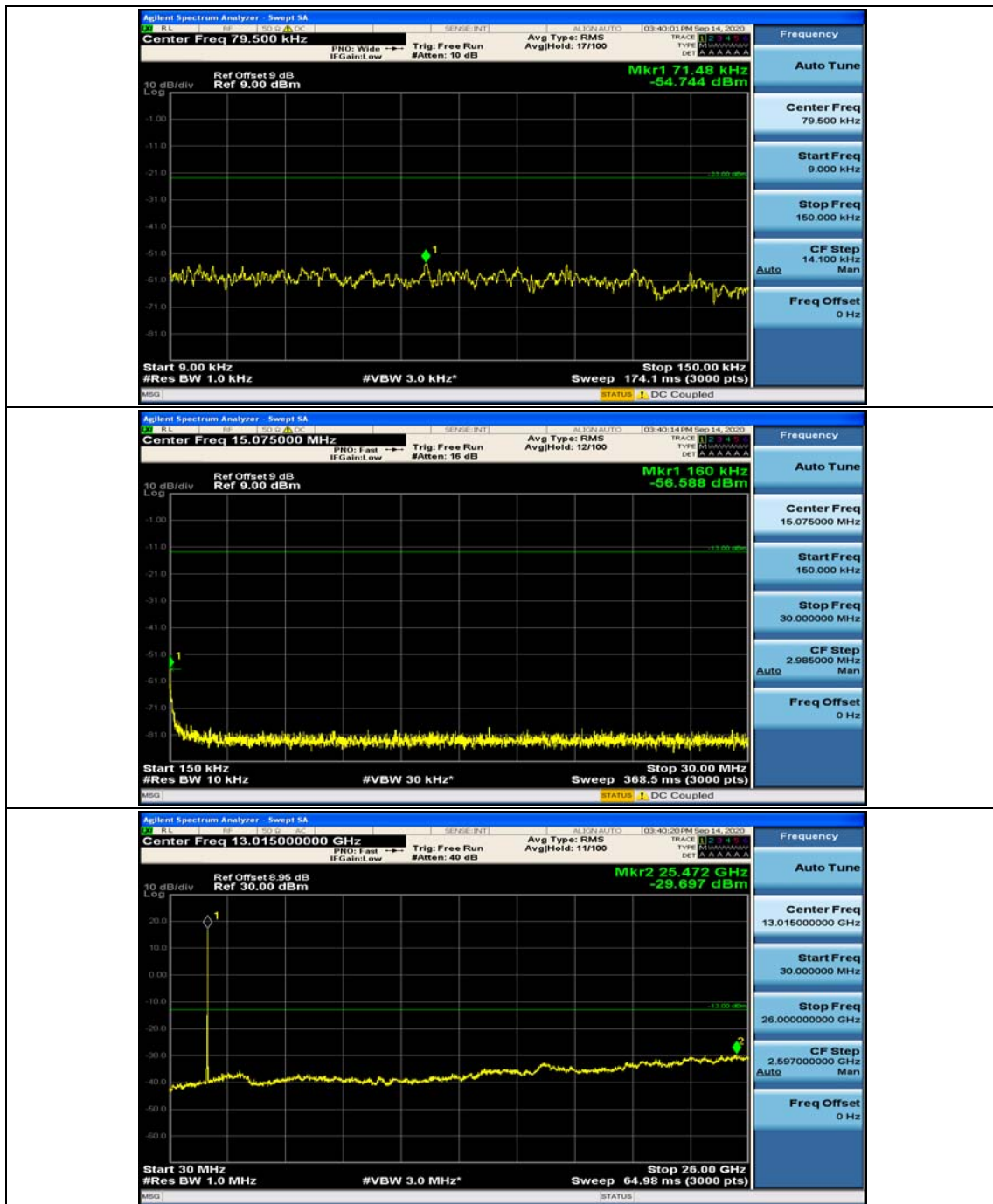


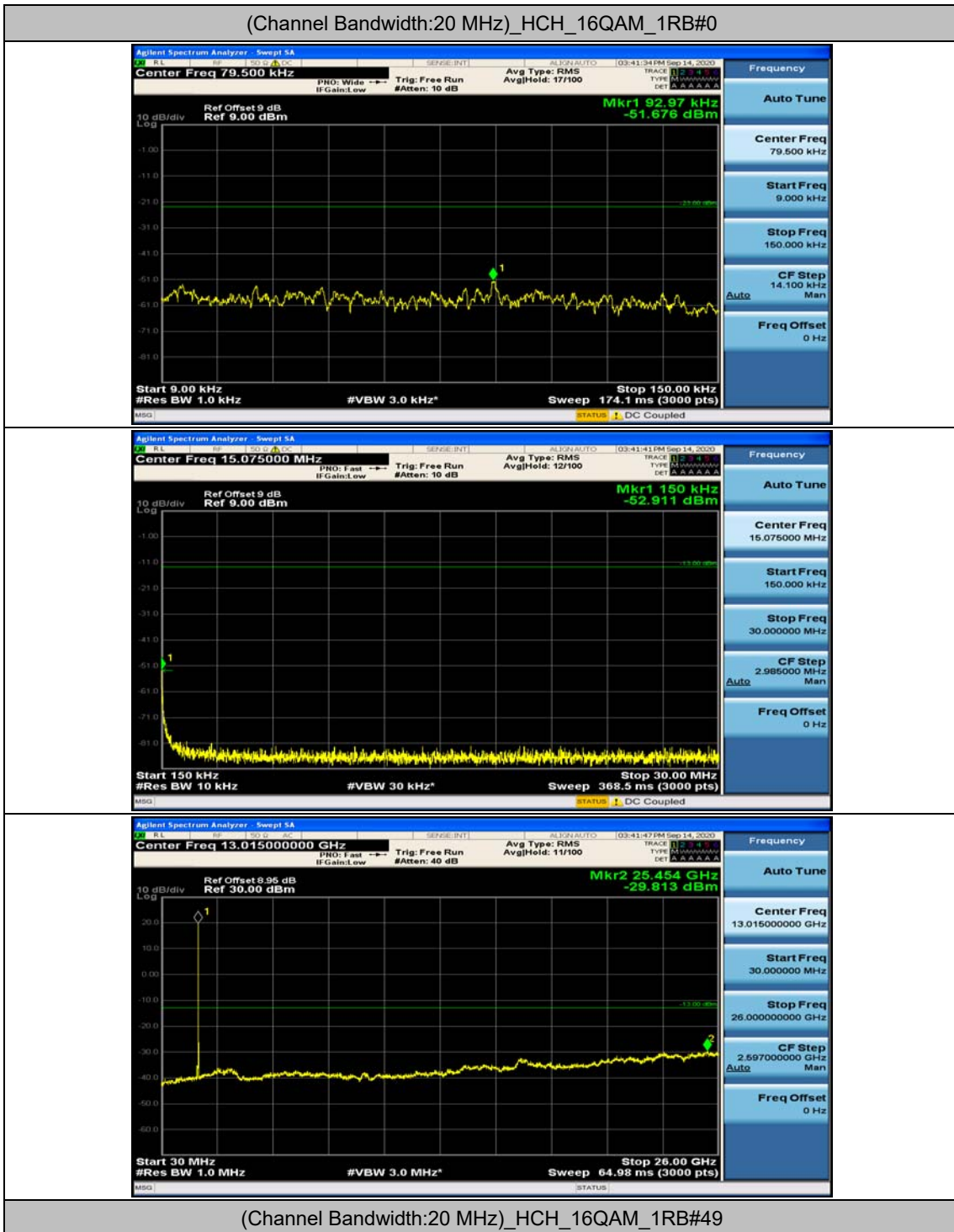
(Channel Bandwidth:20 MHz)\_MCH\_16QAM\_1RB#0



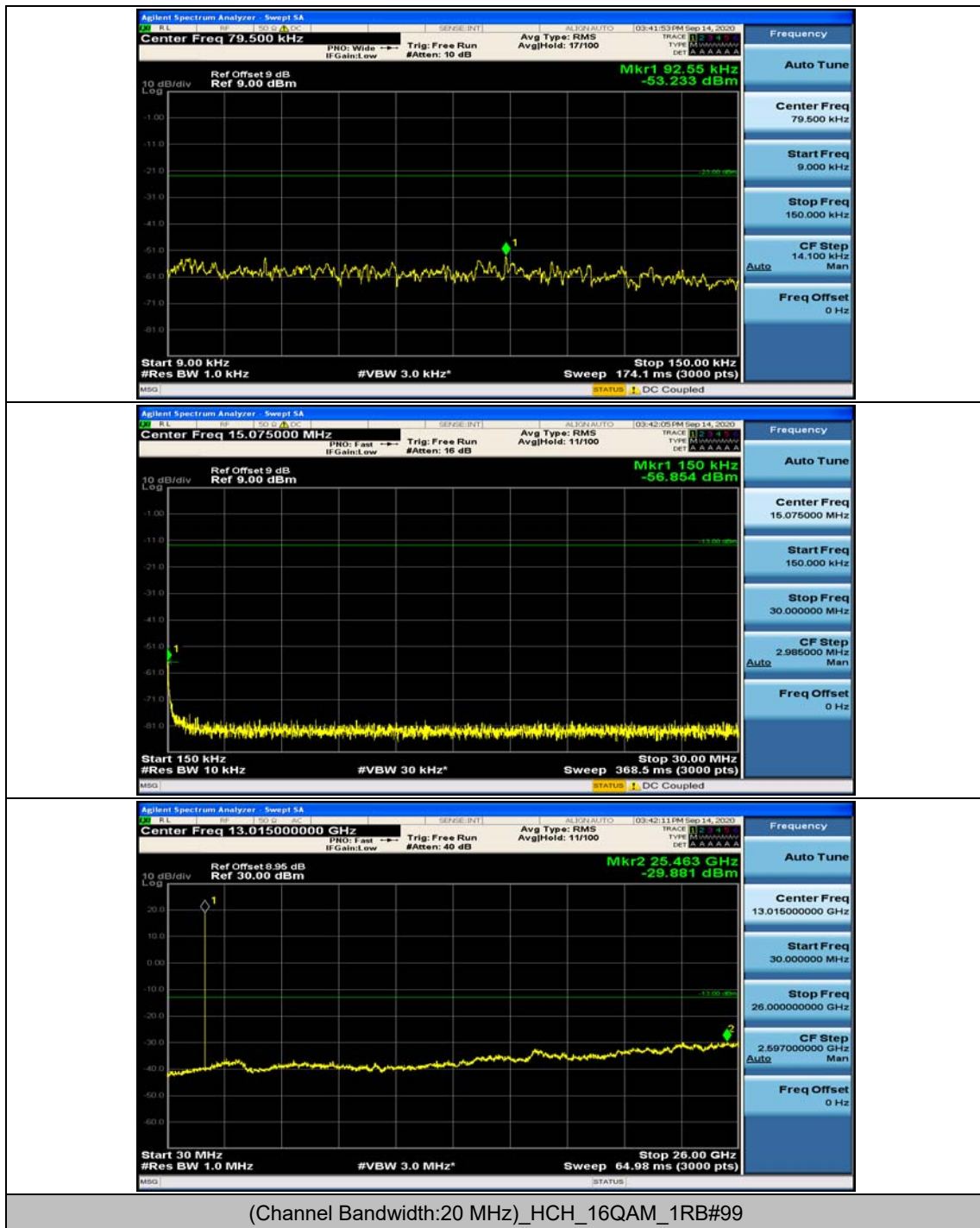
(Channel Bandwidth:20 MHz)\_MCH\_16QAM\_1RB#49

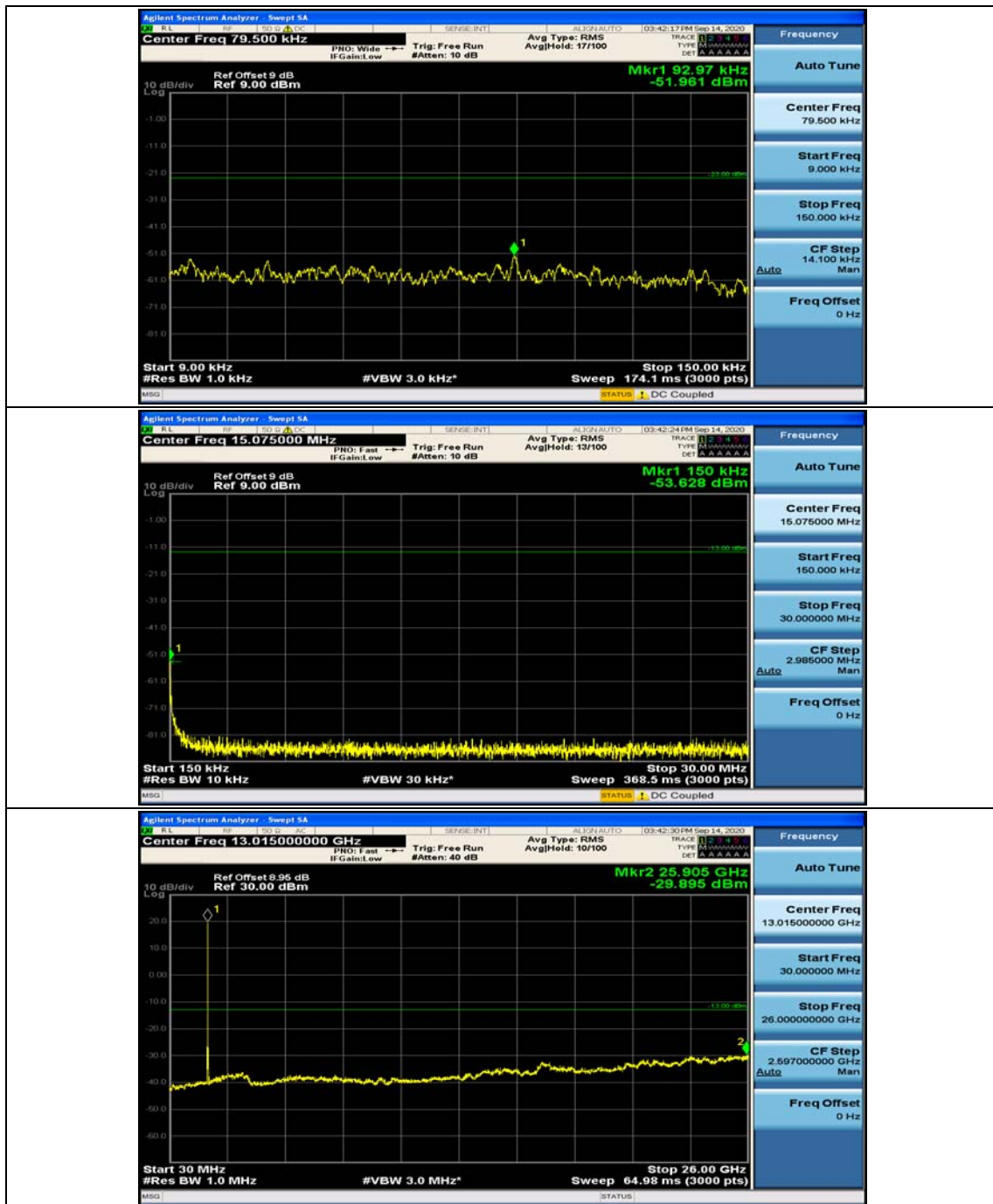












## Appendix F: Frequency Stability

### 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	1.11	0.000649	± 2.5	PASS
		VN	TN	0.81	0.000473	± 2.5	PASS
		VH	TN	-0.4	-0.000234	± 2.5	PASS
	MCH	VL	TN	3.95	0.002280	± 2.5	PASS
		VN	TN	4.91	0.002834	± 2.5	PASS
		VH	TN	4.67	0.002696	± 2.5	PASS
	HCH	VL	TN	1.25	0.000713	± 2.5	PASS
		VN	TN	1.44	0.000821	± 2.5	PASS
		VH	TN	2.88	0.001642	± 2.5	PASS
16QAM	LCH	VL	TN	0.41	0.000240	± 2.5	PASS
		VN	TN	2.22	0.001298	± 2.5	PASS
		VH	TN	-0.52	-0.000304	± 2.5	PASS
	MCH	VL	TN	1.28	0.000739	± 2.5	PASS
		VN	TN	-1.44	-0.000831	± 2.5	PASS
		VH	TN	-0.9	-0.000519	± 2.5	PASS
	HCH	VL	TN	2.49	0.001419	± 2.5	PASS
		VN	TN	2.48	0.001414	± 2.5	PASS
		VH	TN	2.01	0.001146	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	3.78	0.002210	± 2.5	PASS
		VN	-20	-0.26	-0.000152	± 2.5	PASS
		VN	-10	2.62	0.001532	± 2.5	PASS
		VN	0	1.35	0.000789	± 2.5	PASS
		VN	10	-1.56	-0.000912	± 2.5	PASS
		VN	20	1.69	0.000988	± 2.5	PASS
		VN	30	3.62	0.002116	± 2.5	PASS
		VN	40	2.59	0.001514	± 2.5	PASS
		VN	50	4.89	0.002858	± 2.5	PASS

	MCH	VN	-30	0.21	0.000121	± 2.5	PASS
		VN	-20	0.22	0.000127	± 2.5	PASS
		VN	-10	1.49	0.000860	± 2.5	PASS
		VN	0	4.83	0.002788	± 2.5	PASS
		VN	10	-0.01	-0.000006	± 2.5	PASS
		VN	20	4.74	0.002736	± 2.5	PASS
		VN	30	4.7	0.002713	± 2.5	PASS
		VN	40	4.16	0.002401	± 2.5	PASS
		VN	50	1.68	0.000970	± 2.5	PASS
	HCH	VN	-30	2.14	0.001220	± 2.5	PASS
		VN	-20	3.45	0.001967	± 2.5	PASS
		VN	-10	-1.99	-0.001134	± 2.5	PASS
		VN	0	4.56	0.002599	± 2.5	PASS
		VN	10	2.25	0.001283	± 2.5	PASS
		VN	20	3.24	0.001847	± 2.5	PASS
		VN	30	1.17	0.000667	± 2.5	PASS
		VN	40	3.38	0.001927	± 2.5	PASS
		VN	50	4.38	0.002497	± 2.5	PASS
16QAM	LCH	VN	-30	1.48	0.000865	± 2.5	PASS
		VN	-20	2.86	0.001672	± 2.5	PASS
		VN	-10	1.96	0.001146	± 2.5	PASS
		VN	0	0.12	0.000070	± 2.5	PASS
		VN	10	0.82	0.000479	± 2.5	PASS
		VN	20	4.41	0.002578	± 2.5	PASS
		VN	30	2.74	0.001602	± 2.5	PASS
		VN	40	3.57	0.002087	± 2.5	PASS
		VN	50	4.25	0.002484	± 2.5	PASS
	MCH	VN	-30	-1.48	-0.000844	± 2.5	PASS
		VN	-20	-1.58	-0.000901	± 2.5	PASS
		VN	-10	0.89	0.000507	± 2.5	PASS
		VN	0	-0.52	-0.000296	± 2.5	PASS
		VN	10	-0.8	-0.000456	± 2.5	PASS
		VN	20	3.04	0.001733	± 2.5	PASS
		VN	30	0.69	0.000393	± 2.5	PASS
		VN	40	4.49	0.002559	± 2.5	PASS
		VN	50	3.28	0.001870	± 2.5	PASS
	HCH	VN	-30	-0.45	-0.000257	± 2.5	PASS
		VN	-20	1.29	0.000735	± 2.5	PASS
		VN	-10	2.02	0.001151	± 2.5	PASS
		VN	0	0.73	0.000416	± 2.5	PASS
		VN	10	-1.89	-0.001077	± 2.5	PASS

		VN	20	2.52	0.001436	± 2.5	PASS
		VN	30	3.38	0.001927	± 2.5	PASS
		VN	40	0.34	0.000194	± 2.5	PASS
		VN	50	-0.91	-0.000519	± 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	0.34	0.000199	± 2.5	PASS
		VN	TN	4.25	0.002483	± 2.5	PASS
		VH	TN	-1.74	-0.001017	± 2.5	PASS
	MCH	VL	TN	-1.42	-0.000820	± 2.5	PASS
		VN	TN	1.99	0.001149	± 2.5	PASS
		VH	TN	0.75	0.000433	± 2.5	PASS
	HCH	VL	TN	2.33	0.001329	± 2.5	PASS
		VN	TN	-1.69	-0.000964	± 2.5	PASS
		VH	TN	4.62	0.002635	± 2.5	PASS
16QAM	LCH	VL	TN	1.8	0.001052	± 2.5	PASS
		VN	TN	3.66	0.002138	± 2.5	PASS
		VH	TN	-0.6	-0.000351	± 2.5	PASS
	MCH	VL	TN	-0.56	-0.000323	± 2.5	PASS
		VN	TN	-0.74	-0.000427	± 2.5	PASS
		VH	TN	-1.85	-0.001068	± 2.5	PASS
	HCH	VL	TN	-1.14	-0.000650	± 2.5	PASS
		VN	TN	0.43	0.000245	± 2.5	PASS
		VH	TN	2.27	0.001295	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	2.65	0.001548	± 2.5	PASS
		VN	-20	-0.08	-0.000047	± 2.5	PASS
		VN	-10	-0.93	-0.000543	± 2.5	PASS
		VN	0	1.9	0.001110	± 2.5	PASS
		VN	10	-1.86	-0.001087	± 2.5	PASS
		VN	20	-1.72	-0.001005	± 2.5	PASS
		VN	30	4.3	0.002512	± 2.5	PASS
		VN	40	-1.41	-0.000824	± 2.5	PASS
		VN	50	4.91	0.002869	± 2.5	PASS
	MCH	VN	-30	4.43	0.002557	± 2.5	PASS



		VN	-20	2.87	0.001657	± 2.5	PASS
		VN	-10	4.21	0.002430	± 2.5	PASS
		VN	0	0.65	0.000375	± 2.5	PASS
		VN	10	1.54	0.000889	± 2.5	PASS
		VN	20	0.09	0.000052	± 2.5	PASS
		VN	30	1.19	0.000687	± 2.5	PASS
		VN	40	-1.5	-0.000866	± 2.5	PASS
		VN	50	1.46	0.000843	± 2.5	PASS
	HCH	VN	-30	2.13	0.001215	± 2.5	PASS
		VN	-20	4.24	0.002418	± 2.5	PASS
		VN	-10	3.07	0.001751	± 2.5	PASS
		VN	0	3.65	0.002082	± 2.5	PASS
		VN	10	0.3	0.000171	± 2.5	PASS
		VN	20	2.83	0.001614	± 2.5	PASS
		VN	30	4.53	0.002583	± 2.5	PASS
		VN	40	3.25	0.001853	± 2.5	PASS
		VN	50	0.86	0.000490	± 2.5	PASS
		16QAM	LCH	VN	-30	1.12	0.000646
VN	-20			-0.61	-0.000352	± 2.5	PASS
VN	-10			3.58	0.002066	± 2.5	PASS
VN	0			0.27	0.000156	± 2.5	PASS
VN	10			4.95	0.002857	± 2.5	PASS
VN	20			-1.28	-0.000739	± 2.5	PASS
VN	30			1.41	0.000814	± 2.5	PASS
VN	40			1.48	0.000854	± 2.5	PASS
VN	50			-0.73	-0.000421	± 2.5	PASS
MCH	VN		-30	-1.31	-0.000747	± 2.5	PASS
	VN		-20	-0.22	-0.000125	± 2.5	PASS
	VN		-10	4.76	0.002715	± 2.5	PASS
	VN		0	2.83	0.001614	± 2.5	PASS
	VN		10	4.84	0.002760	± 2.5	PASS
	VN		20	4.1	0.002338	± 2.5	PASS
	VN		30	-1.34	-0.000764	± 2.5	PASS
	VN		40	0.75	0.000428	± 2.5	PASS
	VN		50	0.59	0.000336	± 2.5	PASS
HCH	VN		-30	-0.87	-0.000496	± 2.5	PASS
	VN		-20	4.18	0.002384	± 2.5	PASS
	VN		-10	2.42	0.001380	± 2.5	PASS
	VN		0	1.89	0.001078	± 2.5	PASS
	VN		10	3.2	0.001825	± 2.5	PASS
	VN		20	-1.83	-0.001044	± 2.5	PASS

		VN	30	2.28	0.001300	± 2.5	PASS
		VN	40	-0.19	-0.000108	± 2.5	PASS
		VN	50	-1.61	-0.000918	± 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	2.95	0.001723	± 2.5	PASS
		VN	TN	0.86	0.000502	± 2.5	PASS
		VH	TN	2.16	0.001261	± 2.5	PASS
	MCH	VL	TN	2.41	0.001391	± 2.5	PASS
		VN	TN	2.38	0.001374	± 2.5	PASS
		VH	TN	-0.73	-0.000421	± 2.5	PASS
	HCH	VL	TN	3.15	0.001797	± 2.5	PASS
		VN	TN	3.73	0.002128	± 2.5	PASS
		VH	TN	3.53	0.002014	± 2.5	PASS
16QAM	LCH	VL	TN	3.14	0.001834	± 2.5	PASS
		VN	TN	2.41	0.001407	± 2.5	PASS
		VH	TN	2.21	0.001291	± 2.5	PASS
	MCH	VL	TN	4.02	0.002320	± 2.5	PASS
		VN	TN	3.42	0.001974	± 2.5	PASS
		VH	TN	3.55	0.002049	± 2.5	PASS
	HCH	VL	TN	-1.92	-0.001096	± 2.5	PASS
		VN	TN	4.63	0.002642	± 2.5	PASS
		VH	TN	4.93	0.002813	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	3.37	0.001968	± 2.5	PASS
		VN	-20	1.32	0.000771	± 2.5	PASS
		VN	-10	0.21	0.000123	± 2.5	PASS
		VN	0	0.44	0.000257	± 2.5	PASS
		VN	10	1.67	0.000975	± 2.5	PASS
		VN	20	0.94	0.000549	± 2.5	PASS
		VN	30	-0.94	-0.000549	± 2.5	PASS
		VN	40	2.8	0.001635	± 2.5	PASS
		VN	50	0.95	0.000555	± 2.5	PASS
	MCH	VN	-30	2.59	0.001495	± 2.5	PASS
		VN	-20	0.19	0.000110	± 2.5	PASS

		VN	-10	-0.23	-0.000133	± 2.5	PASS	
		VN	0	-1.5	-0.000866	± 2.5	PASS	
		VN	10	2.96	0.001709	± 2.5	PASS	
		VN	20	-0.48	-0.000277	± 2.5	PASS	
		VN	30	-0.13	-0.000075	± 2.5	PASS	
		VN	40	-1.54	-0.000889	± 2.5	PASS	
		VN	50	-1.29	-0.000745	± 2.5	PASS	
	HCH	VN	-30	3.26	0.001860	± 2.5	PASS	
		VN	-20	3.43	0.001798	± 2.5	PASS	
		VN	-10	-1.29	-0.000676	± 2.5	PASS	
		VN	0	1.3	0.000682	± 2.5	PASS	
		VN	10	-1.28	-0.000671	± 2.5	PASS	
		VN	20	2.38	0.001248	± 2.5	PASS	
		VN	30	0.36	0.000189	± 2.5	PASS	
		VN	40	-0.31	-0.000163	± 2.5	PASS	
		VN	50	0.08	0.000042	± 2.5	PASS	
		16QAM	LCH	VN	-30	1.22	0.000704	± 2.5
	VN			-20	-1.19	-0.000687	± 2.5	PASS
	VN			-10	1.07	0.000618	± 2.5	PASS
VN	0			3.55	0.002049	± 2.5	PASS	
VN	10			-0.23	-0.000133	± 2.5	PASS	
VN	20			0.25	0.000144	± 2.5	PASS	
VN	30			1.88	0.001085	± 2.5	PASS	
VN	40			3.13	0.001807	± 2.5	PASS	
VN	50			-1.99	-0.001149	± 2.5	PASS	
MCH	VN		-30	2.56	0.001461	± 2.5	PASS	
	VN		-20	4.96	0.002830	± 2.5	PASS	
	VN		-10	-1.36	-0.000776	± 2.5	PASS	
	VN		0	4.14	0.002362	± 2.5	PASS	
	VN		10	1.84	0.001050	± 2.5	PASS	
	VN		20	0.01	0.000006	± 2.5	PASS	
	VN		30	3.45	0.001969	± 2.5	PASS	
	VN		40	-1.65	-0.000942	± 2.5	PASS	
	VN		50	0.37	0.000211	± 2.5	PASS	
HCH	VN		-30	1.83	0.000959	± 2.5	PASS	
	VN		-20	3.25	0.001704	± 2.5	PASS	
	VN		-10	-0.11	-0.000058	± 2.5	PASS	
	VN		0	2.54	0.001332	± 2.5	PASS	
	VN		10	0.87	0.000456	± 2.5	PASS	
	VN		20	4.8	0.002516	± 2.5	PASS	
	VN		30	4.47	0.002343	± 2.5	PASS	

		VN	40	2.51	0.001316	± 2.5	PASS
		VN	50	-0.93	-0.000488	± 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	3.8	0.002216	± 2.5	PASS
		VN	TN	0.67	0.000391	± 2.5	PASS
		VH	TN	-0.97	-0.000566	± 2.5	PASS
	MCH	VL	TN	4.19	0.002418	± 2.5	PASS
		VN	TN	-1.42	-0.000820	± 2.5	PASS
		VH	TN	4.4	0.002540	± 2.5	PASS
	HCH	VL	TN	4.98	0.002846	± 2.5	PASS
		VN	TN	0.57	0.000326	± 2.5	PASS
		VH	TN	4.92	0.002811	± 2.5	PASS
16QAM	LCH	VL	TN	3.75	0.002187	± 2.5	PASS
		VN	TN	3.1	0.001808	± 2.5	PASS
		VH	TN	-0.57	-0.000332	± 2.5	PASS
	MCH	VL	TN	0.58	0.000335	± 2.5	PASS
		VN	TN	-1.68	-0.000970	± 2.5	PASS
		VH	TN	0.67	0.000387	± 2.5	PASS
	HCH	VL	TN	3.8	0.002171	± 2.5	PASS
		VN	TN	3.44	0.001966	± 2.5	PASS
		VH	TN	3.43	0.001960	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-0.71	-0.000414	± 2.5	PASS
		VN	-20	-1.64	-0.000956	± 2.5	PASS
		VN	-10	-0.24	-0.000140	± 2.5	PASS
		VN	0	4.21	0.002455	± 2.5	PASS
		VN	10	1.38	0.000805	± 2.5	PASS
		VN	20	1.5	0.000875	± 2.5	PASS
		VN	30	4.2	0.002449	± 2.5	PASS
		VN	40	2.79	0.001627	± 2.5	PASS
		VN	50	0.32	0.000187	± 2.5	PASS
	MCH	VN	-30	1.5	0.000866	± 2.5	PASS
		VN	-20	3.7	0.002136	± 2.5	PASS
		VN	-10	1.71	0.000987	± 2.5	PASS

		VN	0	-0.56	-0.000323	± 2.5	PASS		
		VN	10	-0.46	-0.000266	± 2.5	PASS		
		VN	20	-0.67	-0.000387	± 2.5	PASS		
		VN	30	-0.93	-0.000537	± 2.5	PASS		
		VN	40	-0.09	-0.000052	± 2.5	PASS		
		VN	50	-1.06	-0.000612	± 2.5	PASS		
	HCH	VN	-30	-1.78	-0.001017	± 2.5	PASS		
		VN	-20	1.34	0.000766	± 2.5	PASS		
		VN	-10	3.7	0.002114	± 2.5	PASS		
		VN	0	1.42	0.000811	± 2.5	PASS		
		VN	10	-0.59	-0.000337	± 2.5	PASS		
		VN	20	1.03	0.000589	± 2.5	PASS		
		VN	30	-0.51	-0.000291	± 2.5	PASS		
		VN	40	3.46	0.001977	± 2.5	PASS		
		VN	50	-0.51	-0.000291	± 2.5	PASS		
		16QAM	LCH	VN	-30	0.93	0.000537	± 2.5	PASS
				VN	-20	-0.73	-0.000421	± 2.5	PASS
				VN	-10	-0.62	-0.000358	± 2.5	PASS
VN	0			1.91	0.001102	± 2.5	PASS		
VN	10			1.52	0.000877	± 2.5	PASS		
VN	20			-0.97	-0.000560	± 2.5	PASS		
VN	30			2.86	0.001651	± 2.5	PASS		
VN	40			-1.56	-0.000900	± 2.5	PASS		
VN	50			2.81	0.001622	± 2.5	PASS		
MCH	VN			-30	4.76	0.002720	± 2.5	PASS	
	VN		-20	-1.9	-0.001086	± 2.5	PASS		
	VN		-10	0.03	0.000017	± 2.5	PASS		
	VN		0	-0.14	-0.000080	± 2.5	PASS		
	VN		10	2.47	0.001411	± 2.5	PASS		
	VN		20	0.91	0.000520	± 2.5	PASS		
	VN		30	4.03	0.002303	± 2.5	PASS		
	VN		40	-0.82	-0.000469	± 2.5	PASS		
	VN		50	1.01	0.000577	± 2.5	PASS		
	HCH		VN	-30	3.92	0.002240	± 2.5	PASS	
VN			-20	0.97	0.000554	± 2.5	PASS		
VN			-10	-0.98	-0.000560	± 2.5	PASS		
VN			0	-1.51	-0.000863	± 2.5	PASS		
VN			10	2.32	0.001326	± 2.5	PASS		
VN			20	3.34	0.001909	± 2.5	PASS		
VN			30	2.65	0.001514	± 2.5	PASS		
VN			40	0.02	0.000011	± 2.5	PASS		



		VN	50	-0.1	-0.000057	± 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	2.6	0.001514	± 2.5	PASS
		VN	TN	-0.63	-0.000367	± 2.5	PASS
		VH	TN	4.1	0.002387	± 2.5	PASS
	MCH	VL	TN	1.41	0.000814	± 2.5	PASS
		VN	TN	0.38	0.000219	± 2.5	PASS
		VH	TN	1.76	0.001016	± 2.5	PASS
	HCH	VL	TN	0.65	0.000372	± 2.5	PASS
		VN	TN	4.92	0.002815	± 2.5	PASS
		VH	TN	-1.34	-0.000767	± 2.5	PASS
16QAM	LCH	VL	TN	3.21	0.001869	± 2.5	PASS
		VN	TN	2.67	0.001555	± 2.5	PASS
		VH	TN	0.94	0.000547	± 2.5	PASS
	MCH	VL	TN	3.73	0.002153	± 2.5	PASS
		VN	TN	1.72	0.000993	± 2.5	PASS
		VH	TN	1.97	0.001137	± 2.5	PASS
	HCH	VL	TN	0.4	0.000229	± 2.5	PASS
		VN	TN	4.08	0.002335	± 2.5	PASS
		VH	TN	1.02	0.000584	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	0.98	0.000571	± 2.5	PASS
		VN	-20	1.13	0.000658	± 2.5	PASS
		VN	-10	1.63	0.000949	± 2.5	PASS
		VN	0	-0.52	-0.000303	± 2.5	PASS
		VN	10	2.21	0.001287	± 2.5	PASS
		VN	20	-1.7	-0.000990	± 2.5	PASS
		VN	30	2.23	0.001298	± 2.5	PASS
		VN	40	-0.91	-0.000530	± 2.5	PASS
		VN	50	-1.85	-0.001077	± 2.5	PASS
	MCH	VN	-30	-0.86	-0.000496	± 2.5	PASS
		VN	-20	-0.87	-0.000502	± 2.5	PASS
		VN	-10	4.5	0.002597	± 2.5	PASS
		VN	0	-1.82	-0.001051	± 2.5	PASS

		VN	10	-1.64	-0.000947	± 2.5	PASS
		VN	20	4.68	0.002701	± 2.5	PASS
		VN	30	3.95	0.002280	± 2.5	PASS
		VN	40	-1.23	-0.000710	± 2.5	PASS
		VN	50	4.99	0.002880	± 2.5	PASS
	HCH	VN	-30	1.98	0.001133	± 2.5	PASS
		VN	-20	-1.79	-0.001024	± 2.5	PASS
		VN	-10	-1.39	-0.000795	± 2.5	PASS
		VN	0	4.57	0.002615	± 2.5	PASS
		VN	10	-0.88	-0.000504	± 2.5	PASS
		VN	20	4.09	0.002340	± 2.5	PASS
		VN	30	-1.38	-0.000790	± 2.5	PASS
		VN	40	-1.11	-0.000635	± 2.5	PASS
		VN	50	1.41	0.000807	± 2.5	PASS
		16QAM	LCH	VN	-30	3.1	0.001789
VN	-20			-1.27	-0.000733	± 2.5	PASS
VN	-10			-1.43	-0.000825	± 2.5	PASS
VN	0			1.02	0.000589	± 2.5	PASS
VN	10			1.96	0.001131	± 2.5	PASS
VN	20			-0.33	-0.000190	± 2.5	PASS
VN	30			-1.48	-0.000854	± 2.5	PASS
VN	40			3.12	0.001801	± 2.5	PASS
VN	50			2.3	0.001328	± 2.5	PASS
MCH	VN		-30	2.15	0.001230	± 2.5	PASS
	VN		-20	1.35	0.000773	± 2.5	PASS
	VN		-10	4.66	0.002667	± 2.5	PASS
	VN		0	-1.2	-0.000687	± 2.5	PASS
	VN		10	1.68	0.000961	± 2.5	PASS
	VN		20	1.18	0.000675	± 2.5	PASS
	VN		30	-1.71	-0.000979	± 2.5	PASS
	VN		40	-0.13	-0.000074	± 2.5	PASS
	VN		50	2.91	0.001665	± 2.5	PASS
HCH	VN		-30	-0.4	-0.000229	± 2.5	PASS
	VN		-20	1.76	0.001007	± 2.5	PASS
	VN		-10	3.34	0.001911	± 2.5	PASS
	VN		0	-0.6	-0.000343	± 2.5	PASS
	VN		10	3.47	0.001986	± 2.5	PASS
	VN		20	0.12	0.000069	± 2.5	PASS
	VN		30	0.49	0.000280	± 2.5	PASS
	VN		40	2.18	0.001247	± 2.5	PASS
	VN		50	2.37	0.001356	± 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	3.27	0.001901	± 2.5	PASS
		VN	TN	3.85	0.002238	± 2.5	PASS
		VH	TN	-0.57	-0.000331	± 2.5	PASS
	MCH	VL	TN	1.37	0.000791	± 2.5	PASS
		VN	TN	-0.27	-0.000156	± 2.5	PASS
		VH	TN	0.94	0.000543	± 2.5	PASS
	HCH	VL	TN	4.54	0.002602	± 2.5	PASS
		VN	TN	1.92	0.001100	± 2.5	PASS
		VH	TN	0.26	0.000149	± 2.5	PASS
16QAM	LCH	VL	TN	2.05	0.001192	± 2.5	PASS
		VN	TN	3.73	0.002169	± 2.5	PASS
		VH	TN	0.33	0.000192	± 2.5	PASS
	MCH	VL	TN	0.63	0.000364	± 2.5	PASS
		VN	TN	-1.61	-0.000929	± 2.5	PASS
		VH	TN	-1.82	-0.001051	± 2.5	PASS
	HCH	VL	TN	3.52	0.002017	± 2.5	PASS
		VN	TN	1.91	0.001095	± 2.5	PASS
		VH	TN	2.19	0.001255	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	0.69	0.000401	± 2.5	PASS
		VN	-20	4.05	0.002355	± 2.5	PASS
		VN	-10	-0.41	-0.000238	± 2.5	PASS
		VN	0	1.43	0.000831	± 2.5	PASS
		VN	10	0.63	0.000366	± 2.5	PASS
		VN	20	3.14	0.001826	± 2.5	PASS
		VN	30	3.31	0.001924	± 2.5	PASS
		VN	40	0.16	0.000093	± 2.5	PASS
		VN	50	3.09	0.001797	± 2.5	PASS
	MCH	VN	-30	1.15	0.000664	± 2.5	PASS
		VN	-20	1.55	0.000895	± 2.5	PASS
		VN	-10	1.08	0.000623	± 2.5	PASS
		VN	0	-1.07	-0.000618	± 2.5	PASS
		VN	10	-1.22	-0.000704	± 2.5	PASS

		VN	20	4.02	0.002320	± 2.5	PASS
		VN	30	0.73	0.000421	± 2.5	PASS
		VN	40	2.74	0.001582	± 2.5	PASS
		VN	50	-1.6	-0.000924	± 2.5	PASS
	HCH	VN	-30	-0.02	-0.000011	± 2.5	PASS
		VN	-20	-0.3	-0.000172	± 2.5	PASS
		VN	-10	3.48	0.001994	± 2.5	PASS
		VN	0	1.68	0.000963	± 2.5	PASS
		VN	10	4.43	0.002539	± 2.5	PASS
		VN	20	4.47	0.002562	± 2.5	PASS
		VN	30	2.72	0.001559	± 2.5	PASS
		VN	40	2.5	0.001433	± 2.5	PASS
		VN	50	2	0.001146	± 2.5	PASS
16QAM	LCH	VN	-30	-1.15	-0.000664	± 2.5	PASS
		VN	-20	0.89	0.000514	± 2.5	PASS
		VN	-10	-1.62	-0.000935	± 2.5	PASS
		VN	0	2.43	0.001403	± 2.5	PASS
		VN	10	3.63	0.002095	± 2.5	PASS
		VN	20	1.46	0.000843	± 2.5	PASS
		VN	30	0.79	0.000456	± 2.5	PASS
		VN	40	2.98	0.001720	± 2.5	PASS
		VN	50	1.45	0.000837	± 2.5	PASS
	MCH	VN	-30	-1.81	-0.001037	± 2.5	PASS
		VN	-20	2.96	0.001696	± 2.5	PASS
		VN	-10	3.7	0.002120	± 2.5	PASS
		VN	0	-1.18	-0.000676	± 2.5	PASS
		VN	10	2.7	0.001547	± 2.5	PASS
		VN	20	1.71	0.000980	± 2.5	PASS
		VN	30	3.49	0.002000	± 2.5	PASS
		VN	40	3.68	0.002109	± 2.5	PASS
		VN	50	1.76	0.001009	± 2.5	PASS
	HCH	VN	-30	-1.99	-0.001140	± 2.5	PASS
		VN	-20	-1.68	-0.000963	± 2.5	PASS
		VN	-10	2.03	0.001163	± 2.5	PASS
		VN	0	-0.7	-0.000401	± 2.5	PASS
		VN	10	4.93	0.002825	± 2.5	PASS
		VN	20	1.28	0.000734	± 2.5	PASS
		VN	30	0.17	0.000097	± 2.5	PASS
		VN	40	0.3	0.000172	± 2.5	PASS
		VN	50	2.69	0.001542	± 2.5	PASS