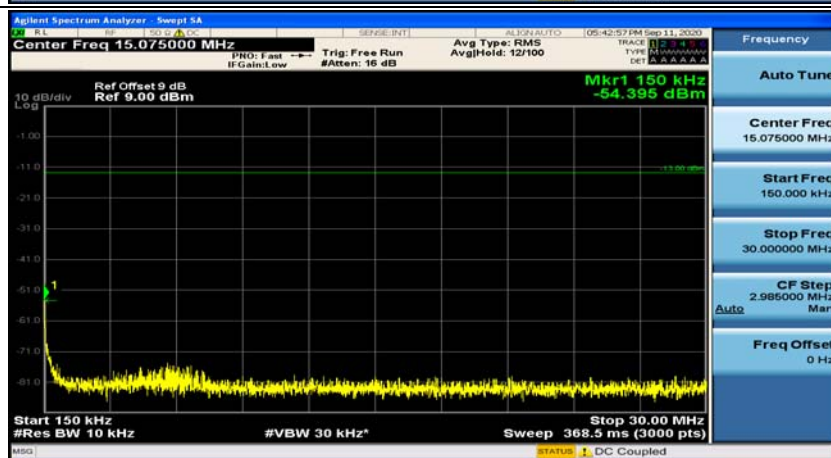
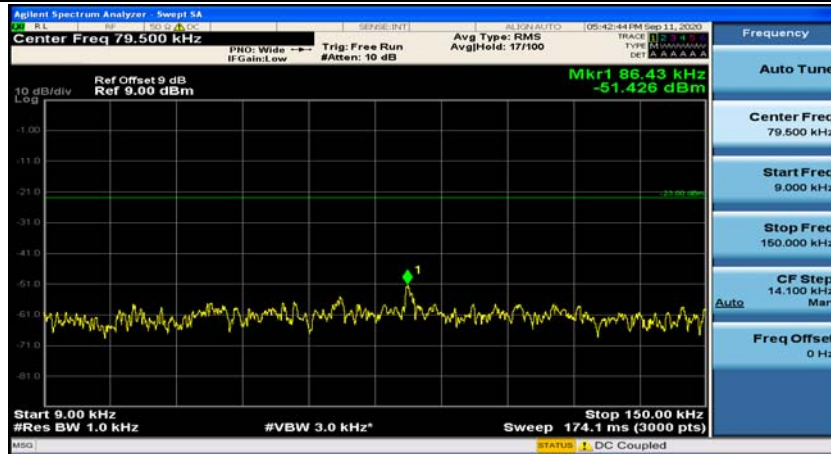
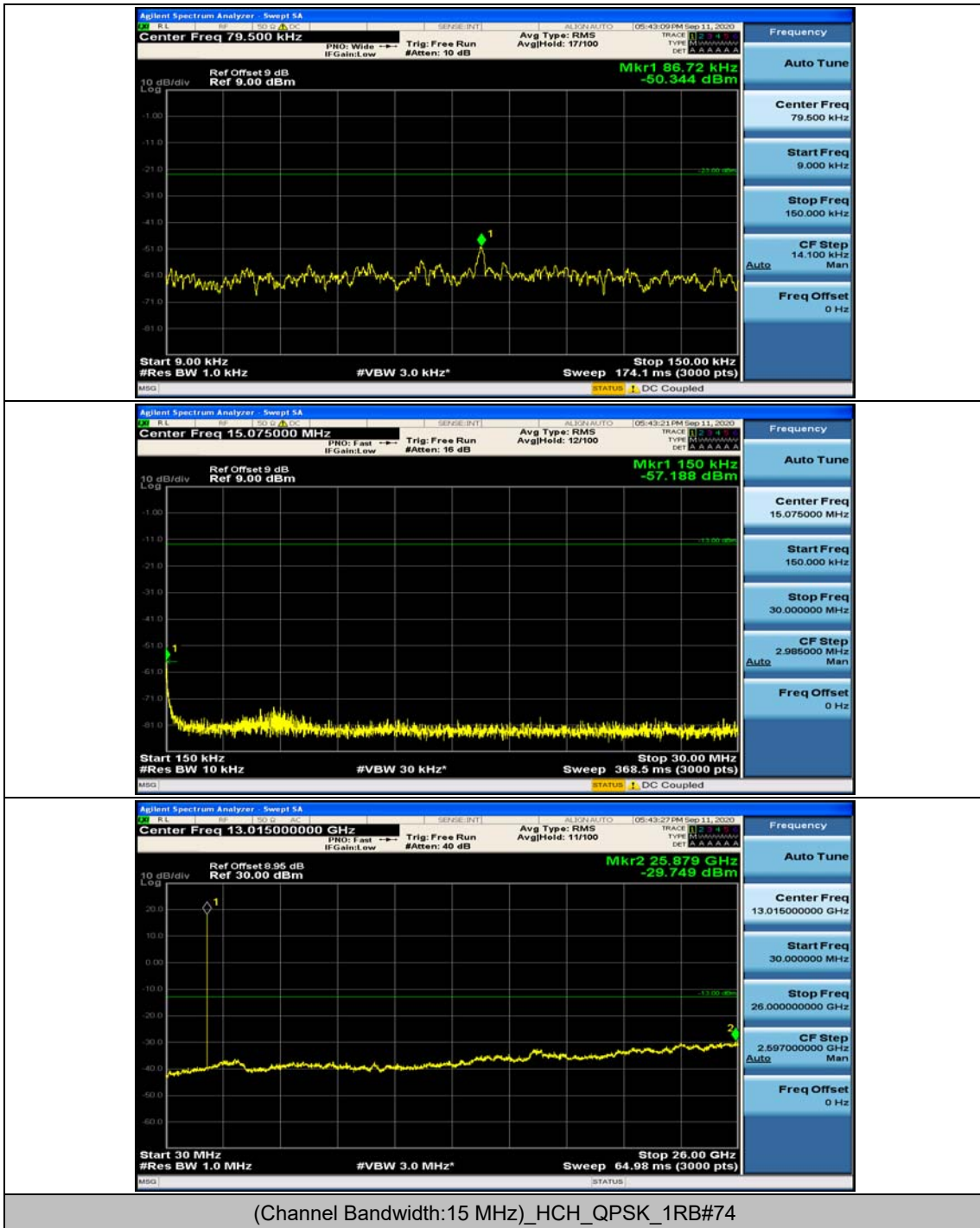
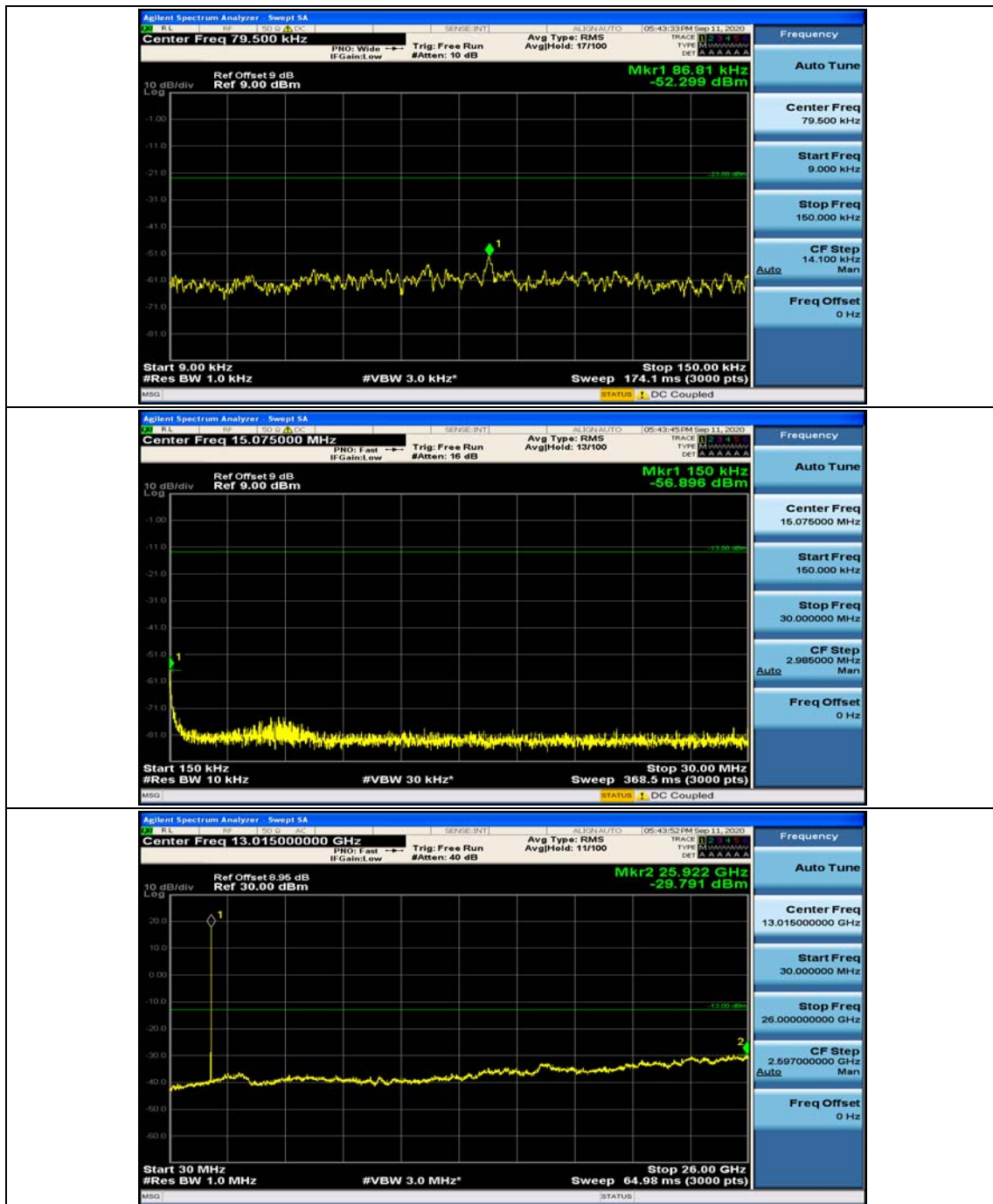


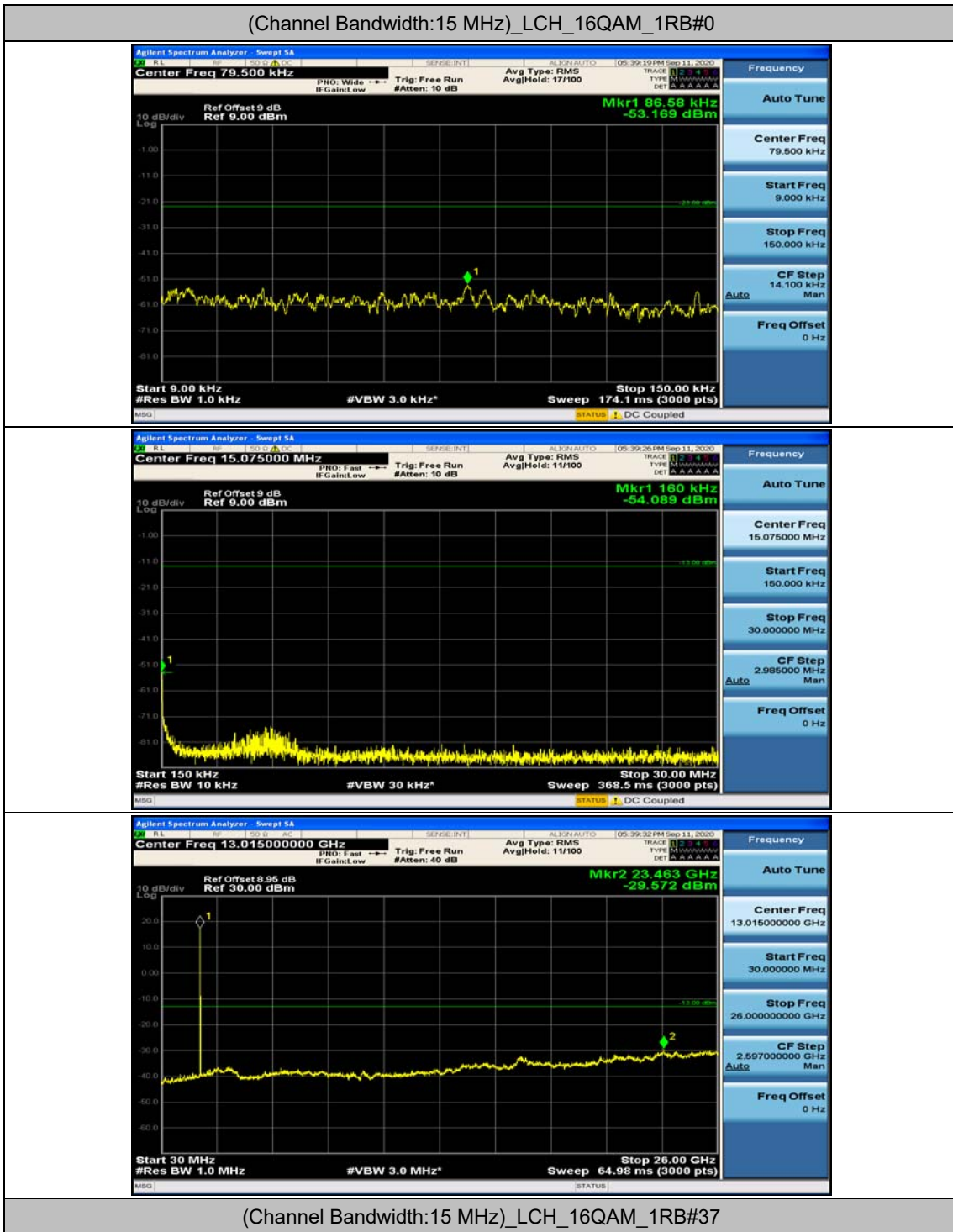
(Channel Bandwidth:15 MHz)\_HCH\_QPSK\_1RB#0

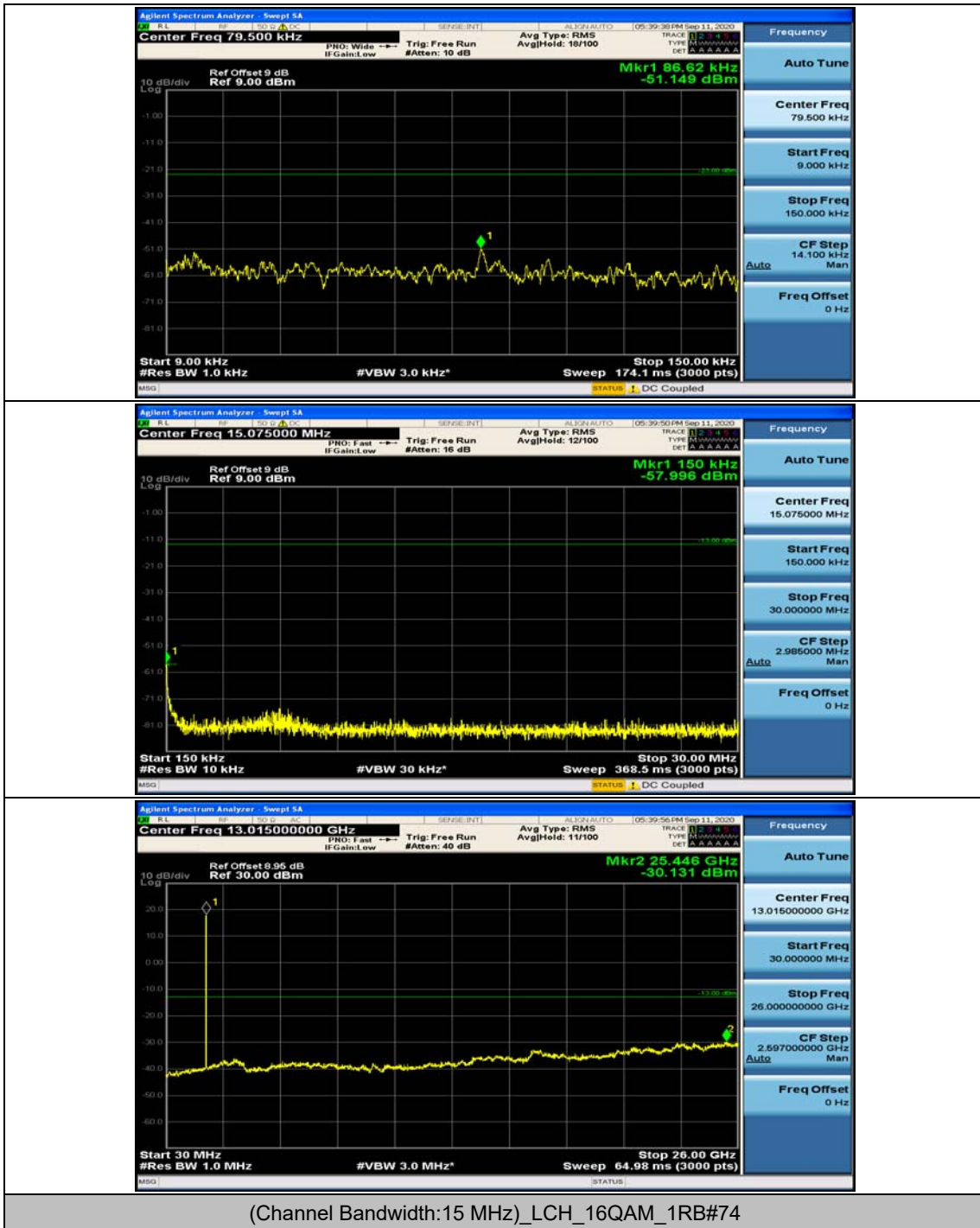


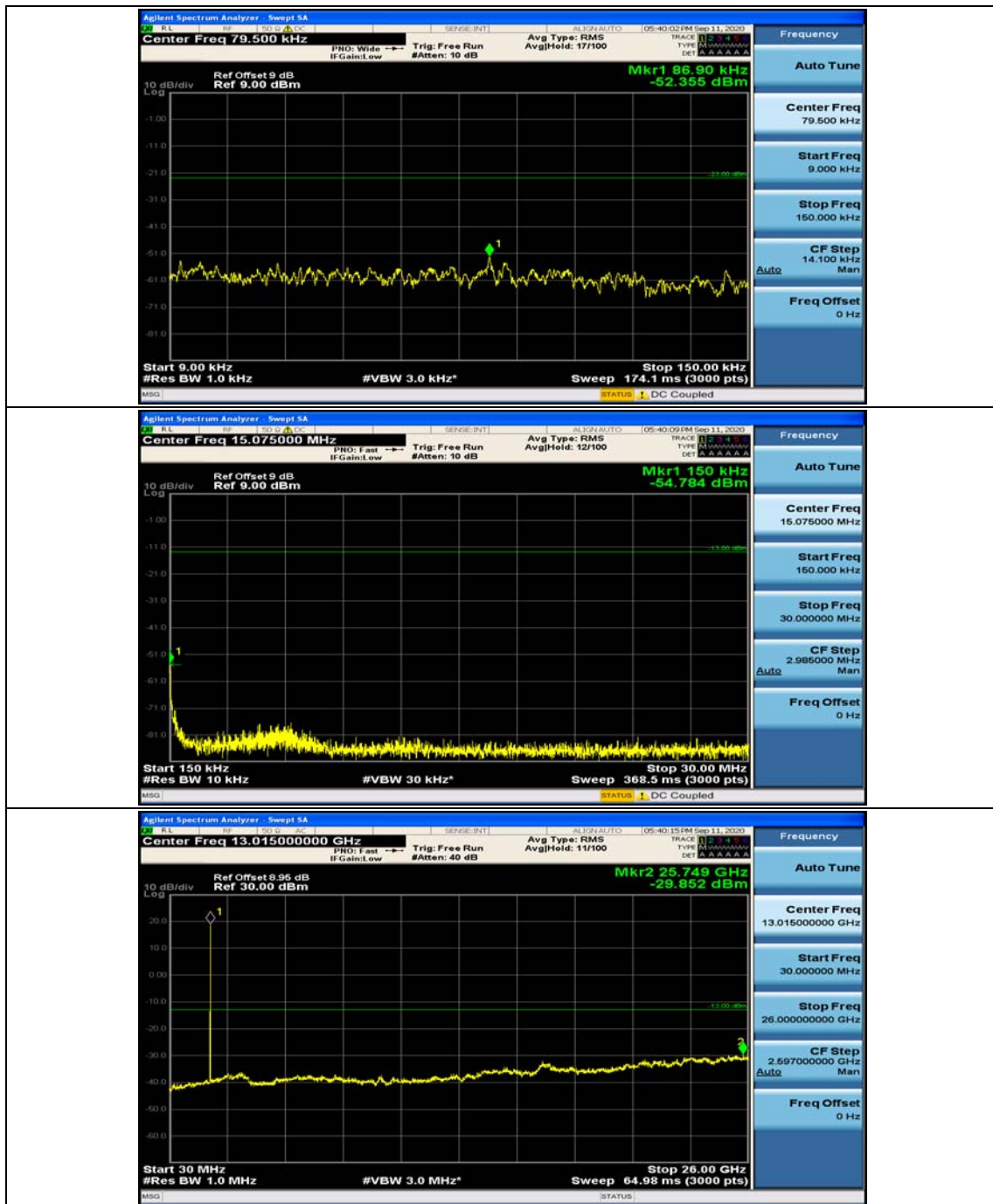
(Channel Bandwidth:15 MHz)\_HCH\_QPSK\_1RB#37



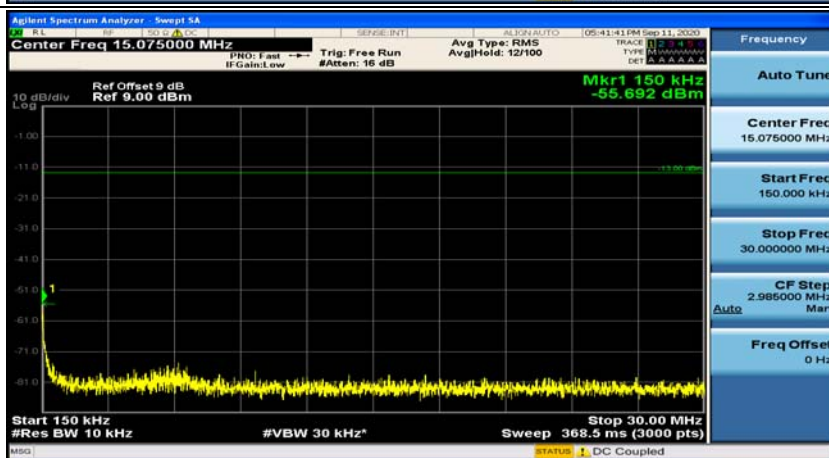
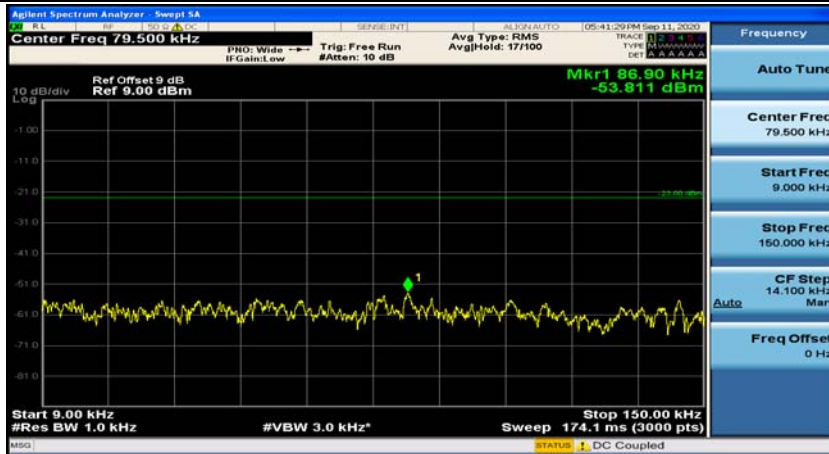




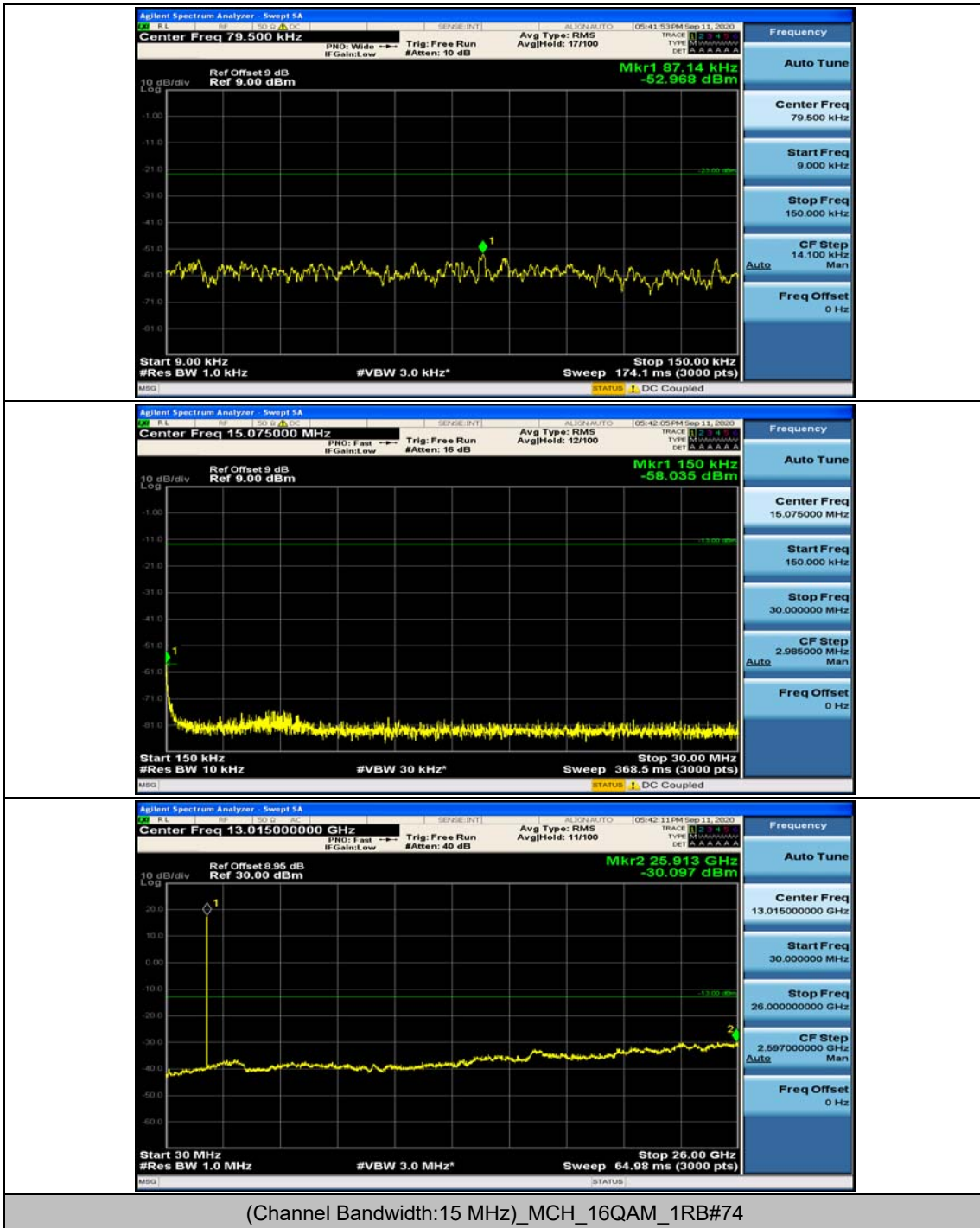




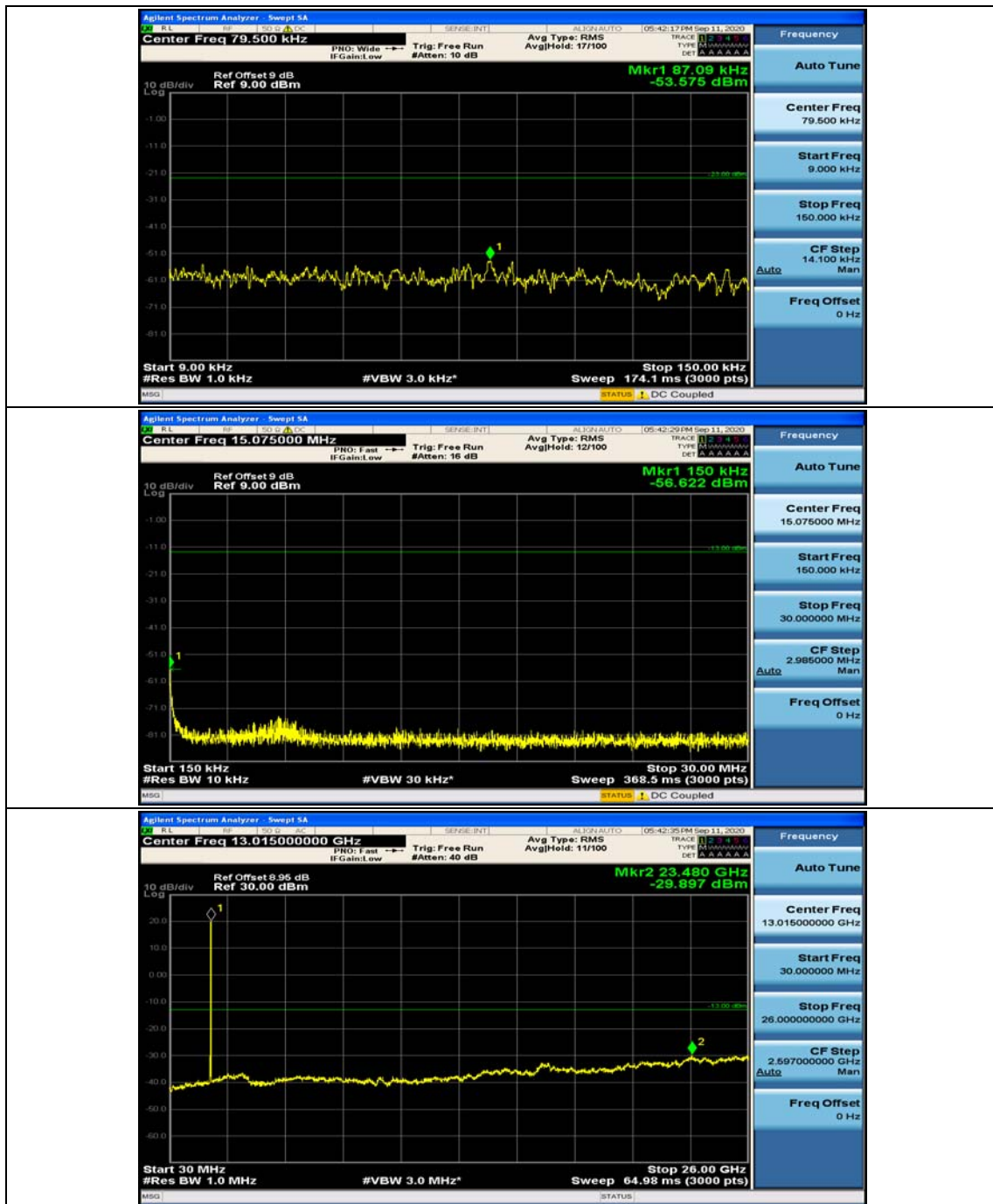
(Channel Bandwidth:15 MHz)\_MCH\_16QAM\_1RB#0



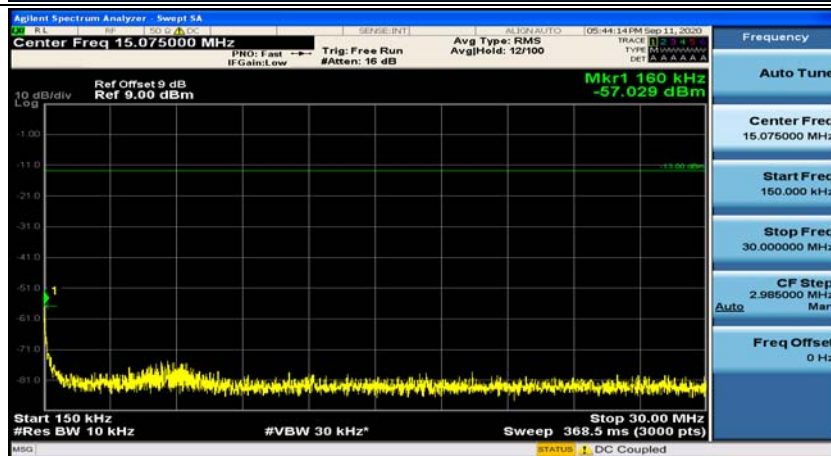
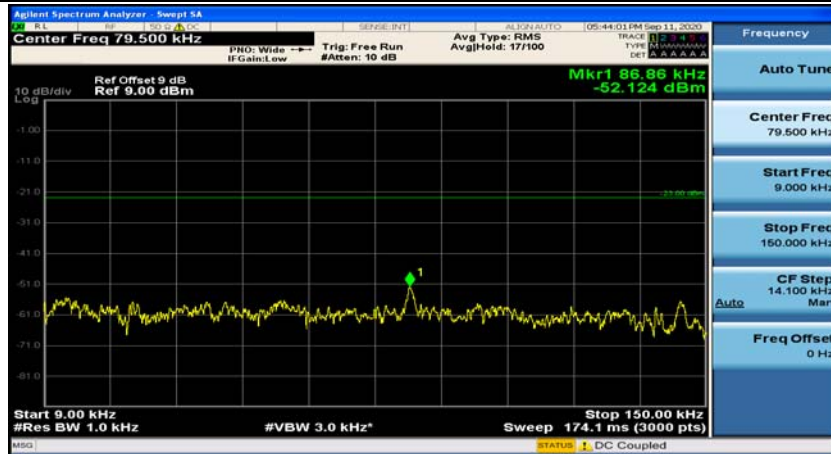
(Channel Bandwidth:15 MHz)\_MCH\_16QAM\_1RB#37



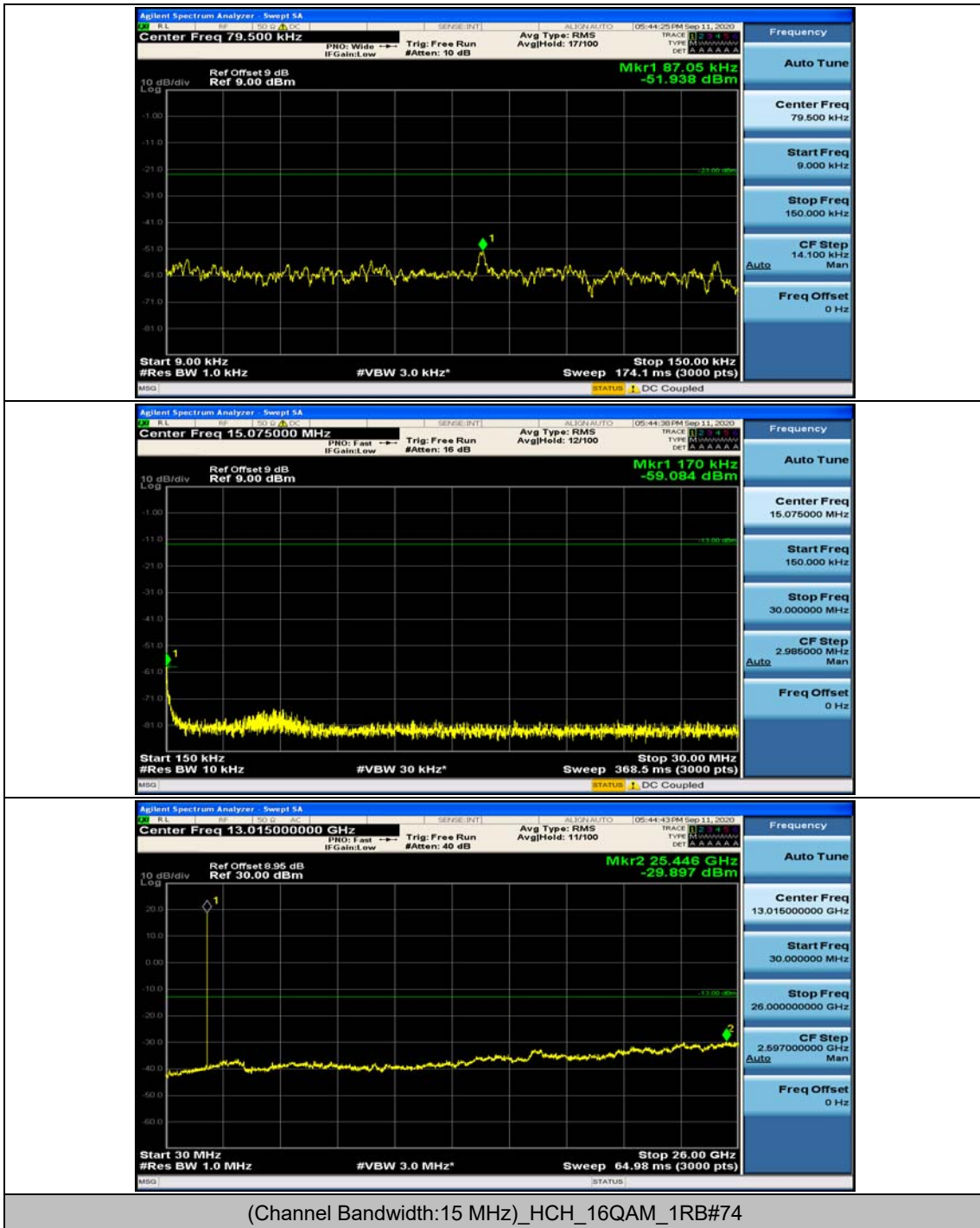


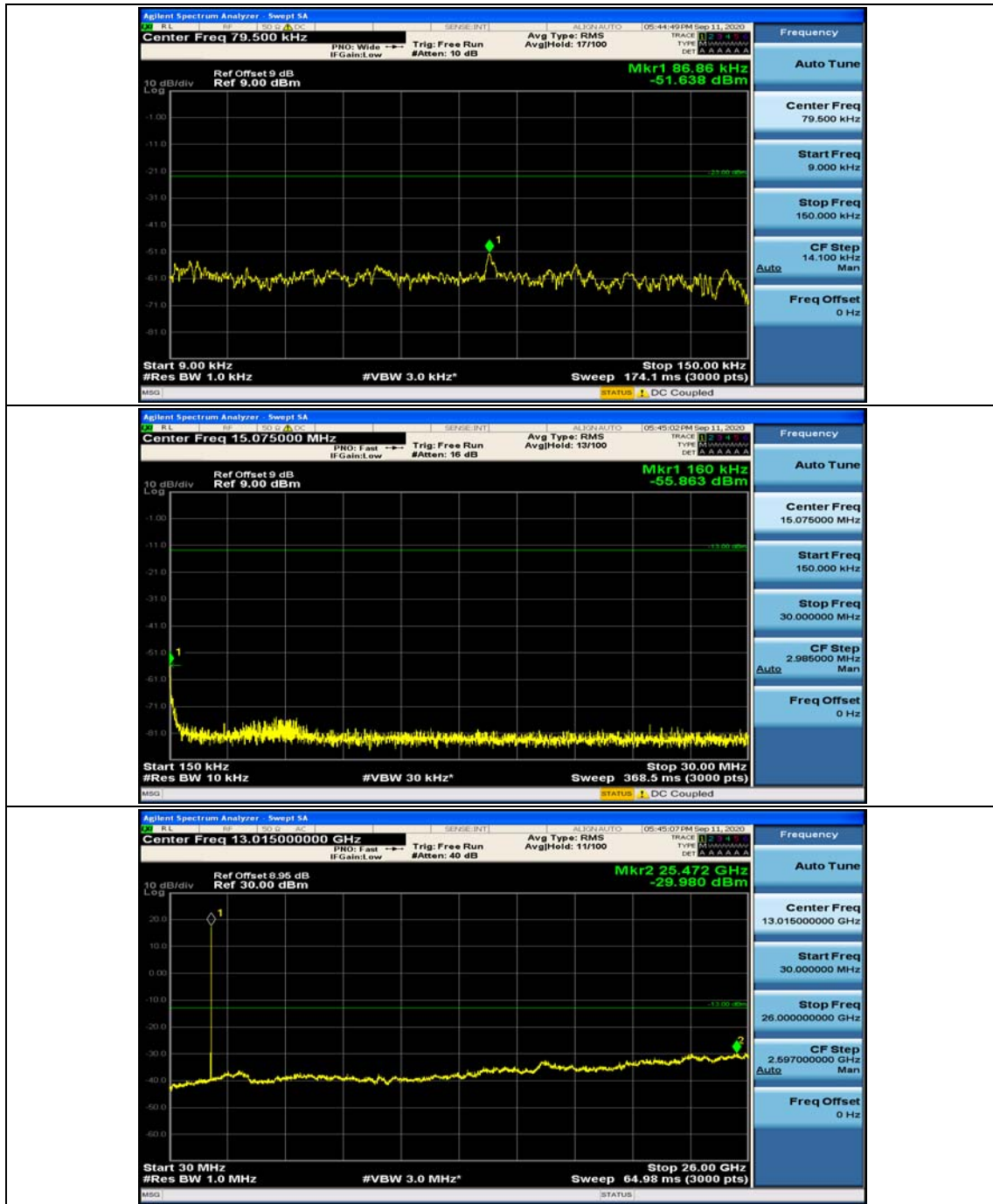


(Channel Bandwidth:15 MHz)\_HCH\_16QAM\_1RB#0

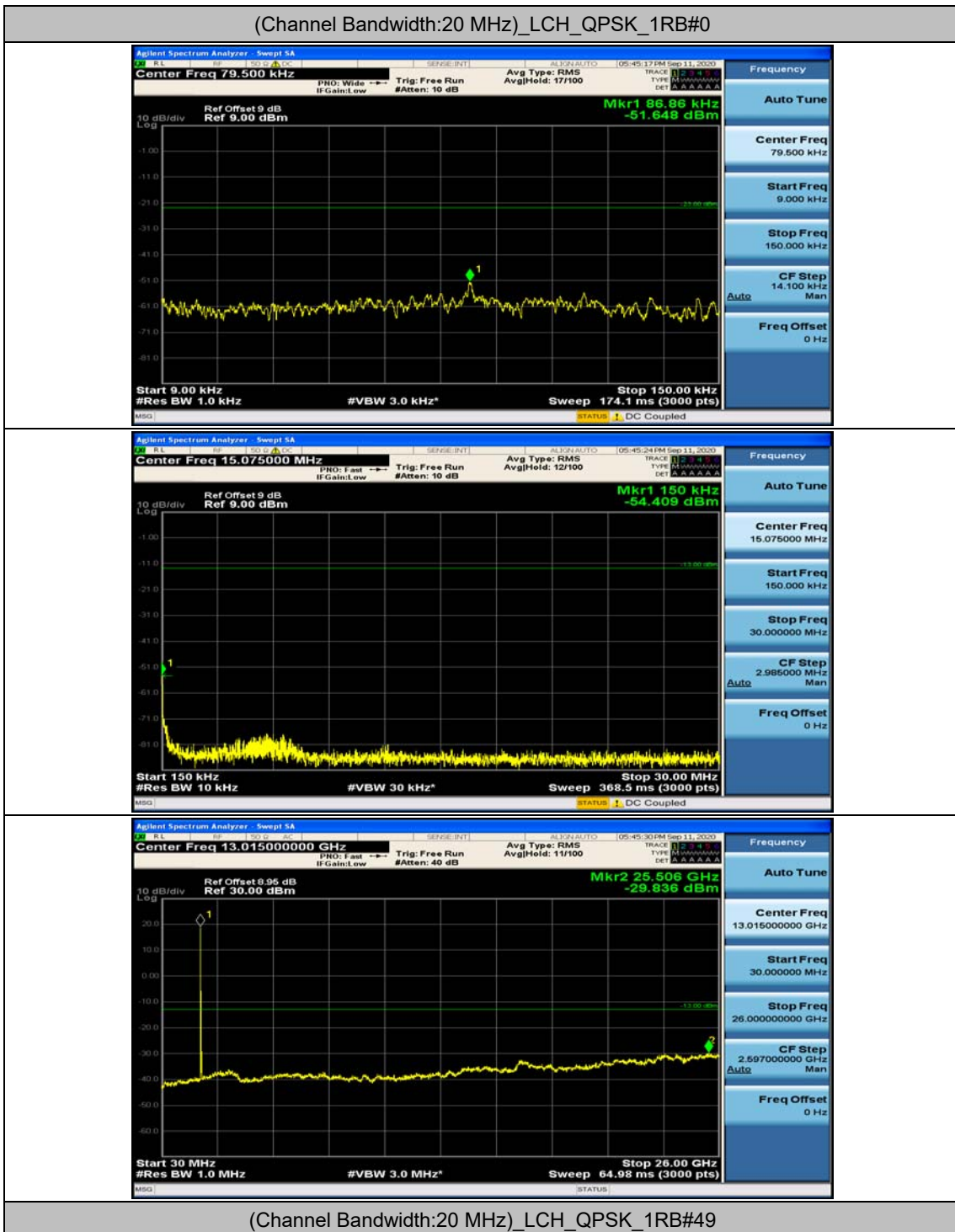


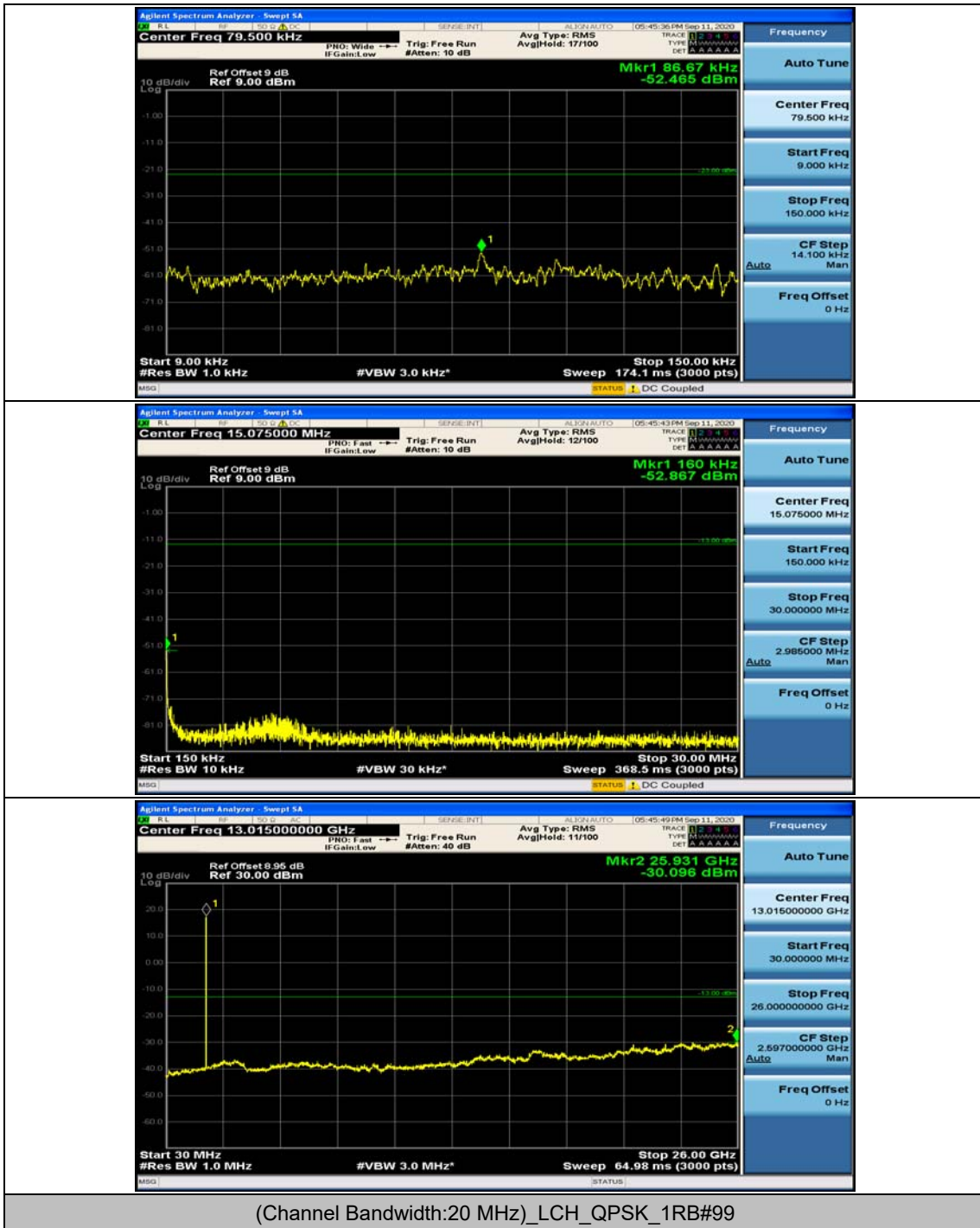
(Channel Bandwidth:15 MHz)\_HCH\_16QAM\_1RB#37

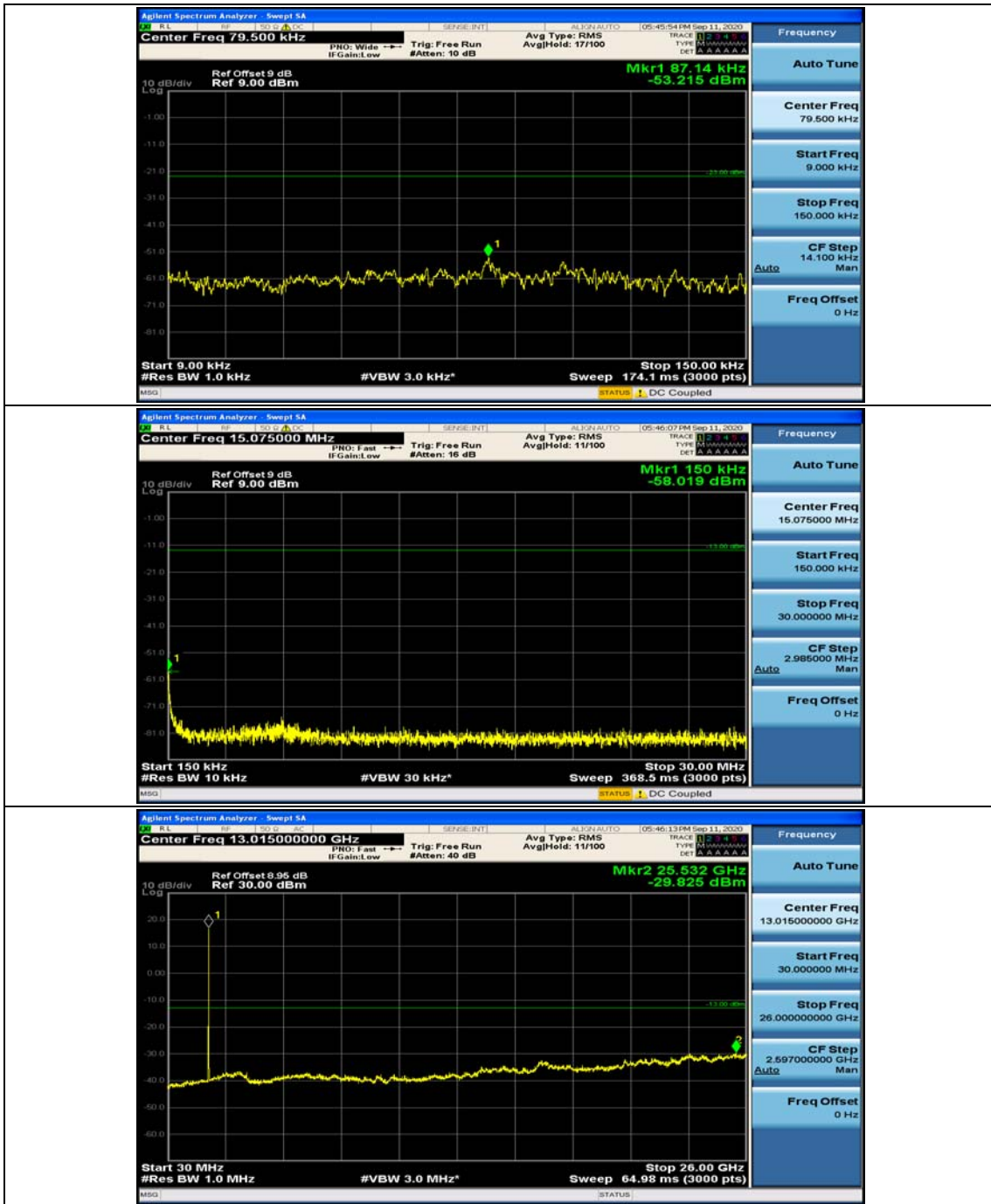


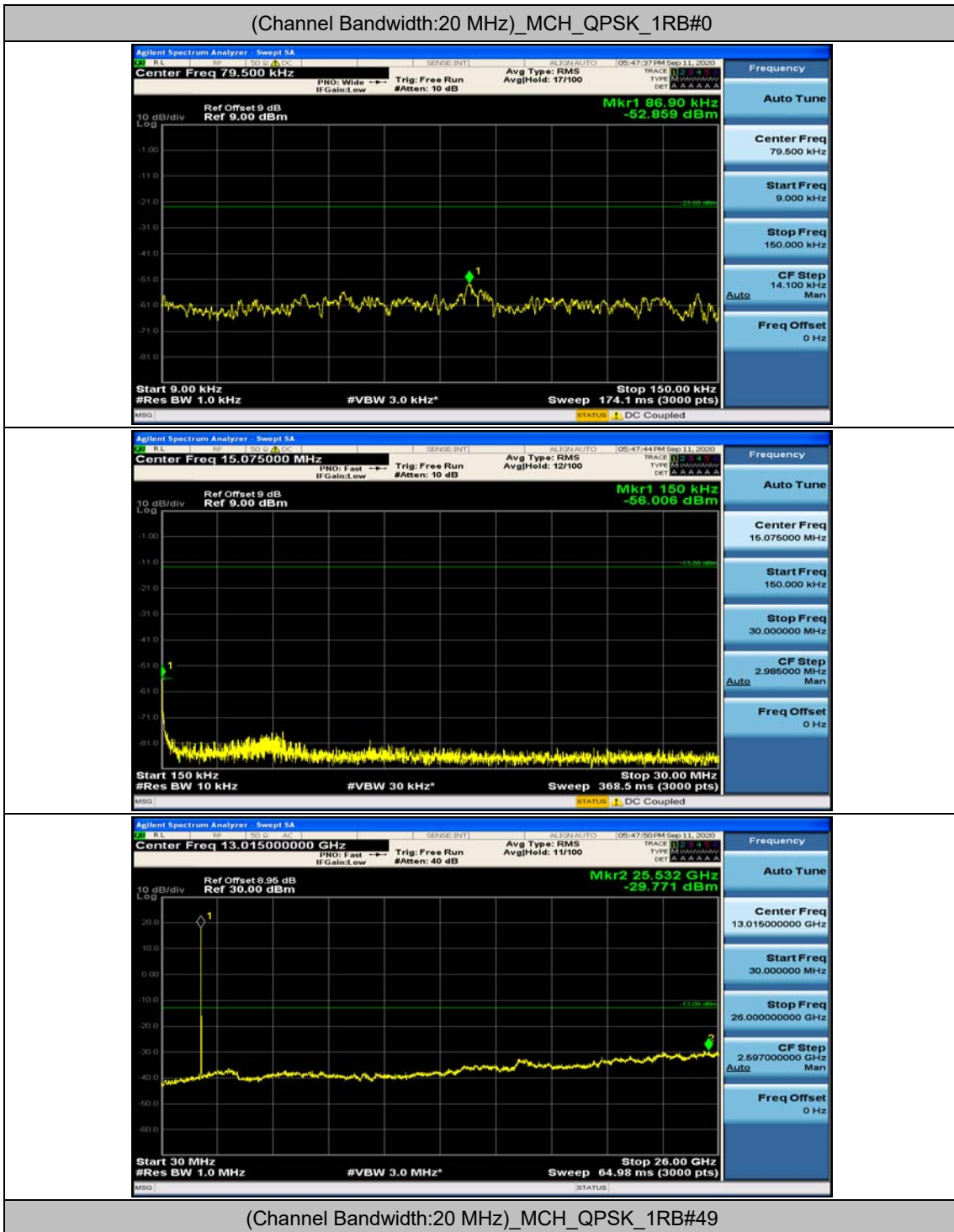


**Channel Bandwidth: 20 MHz**

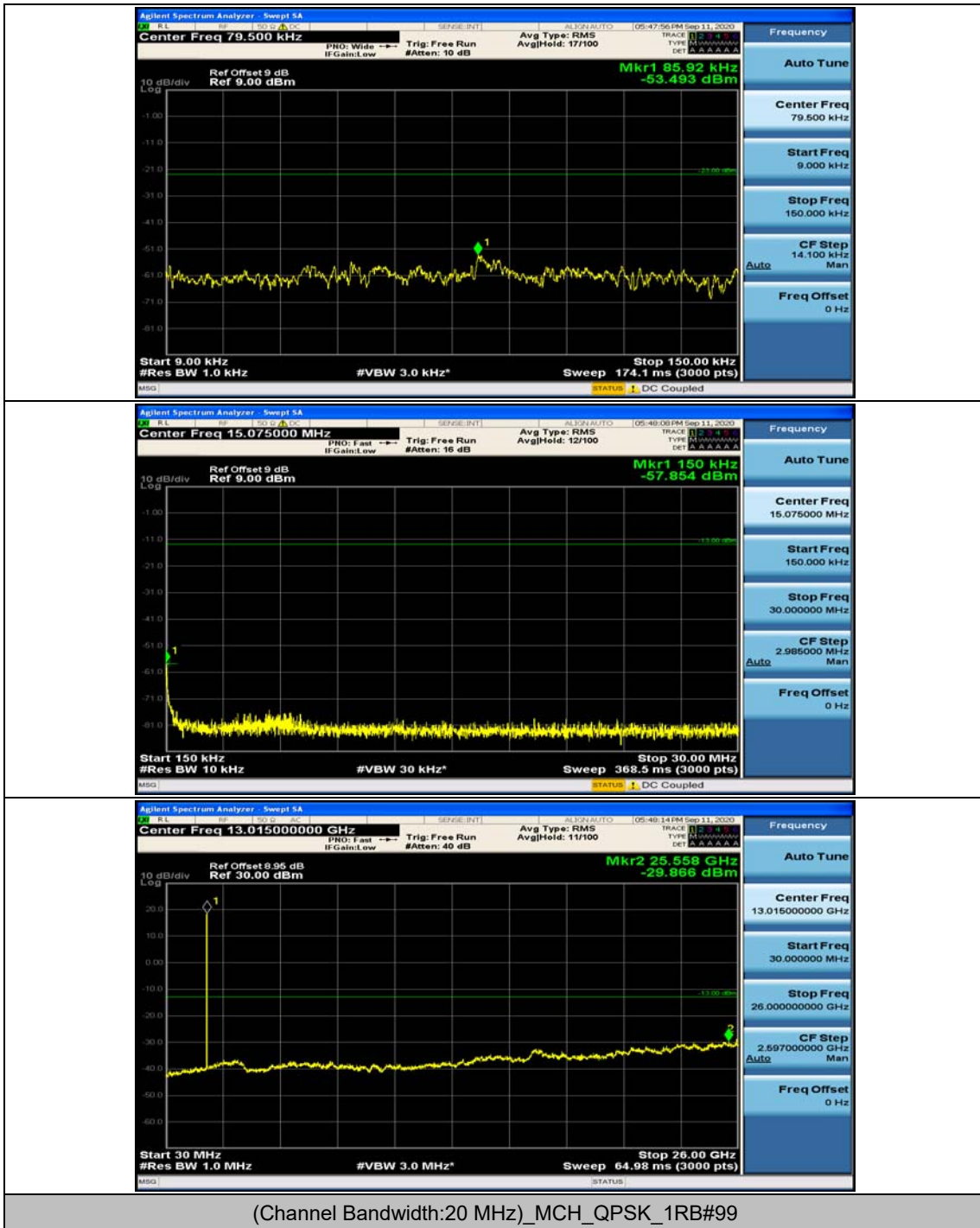


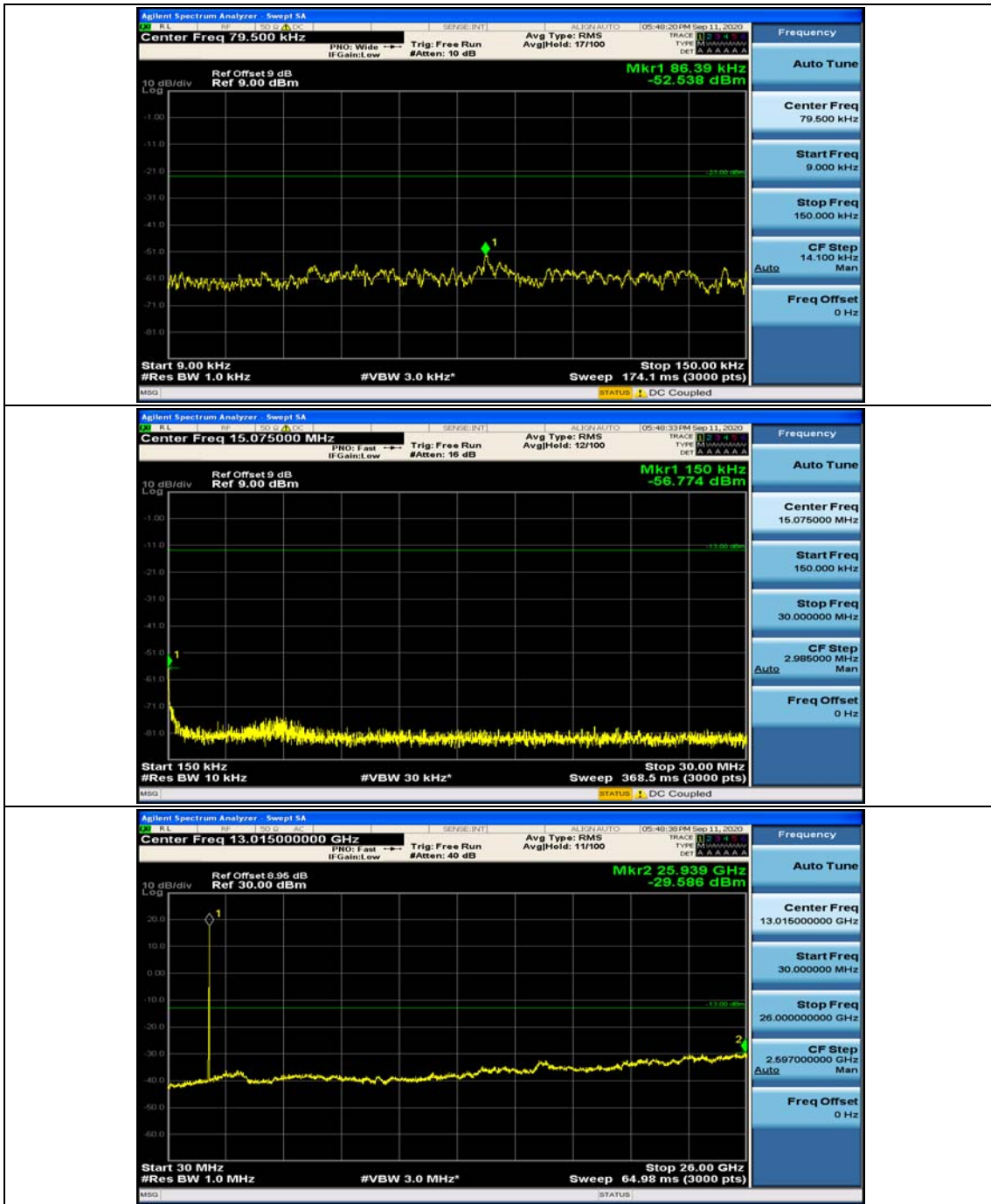




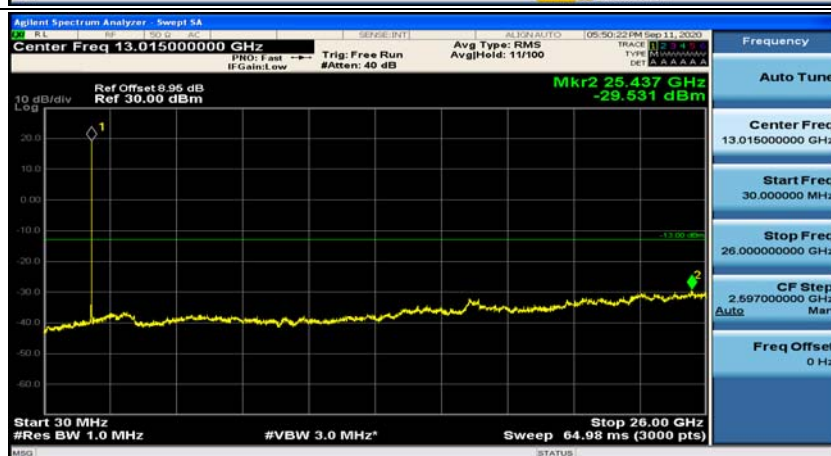
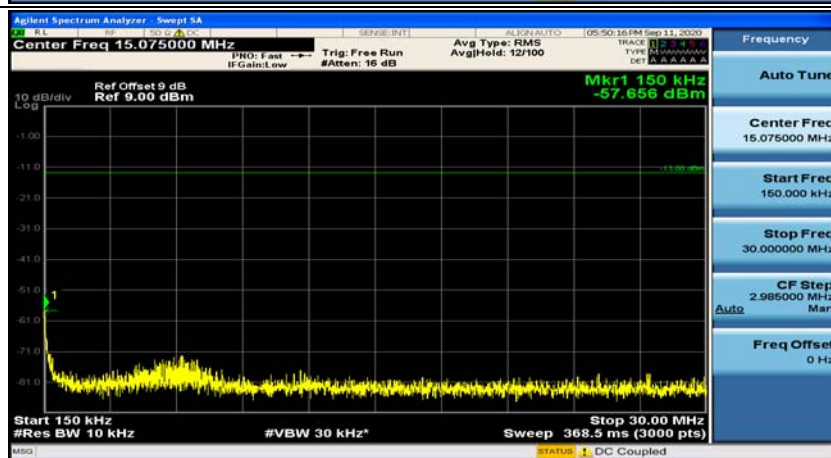
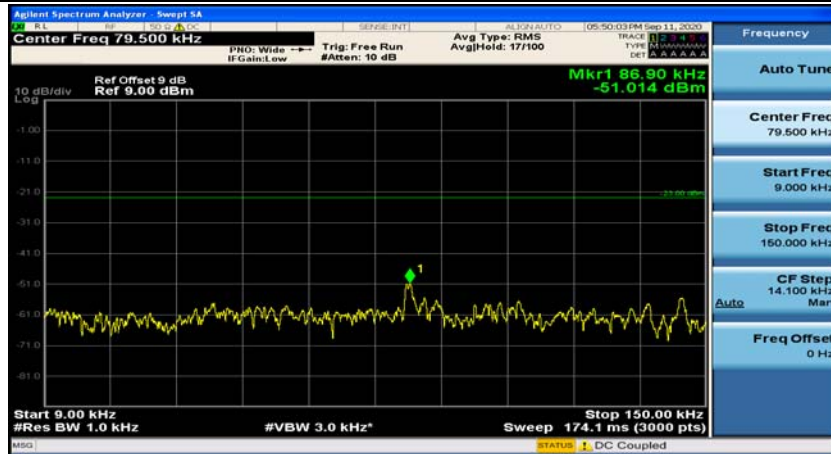




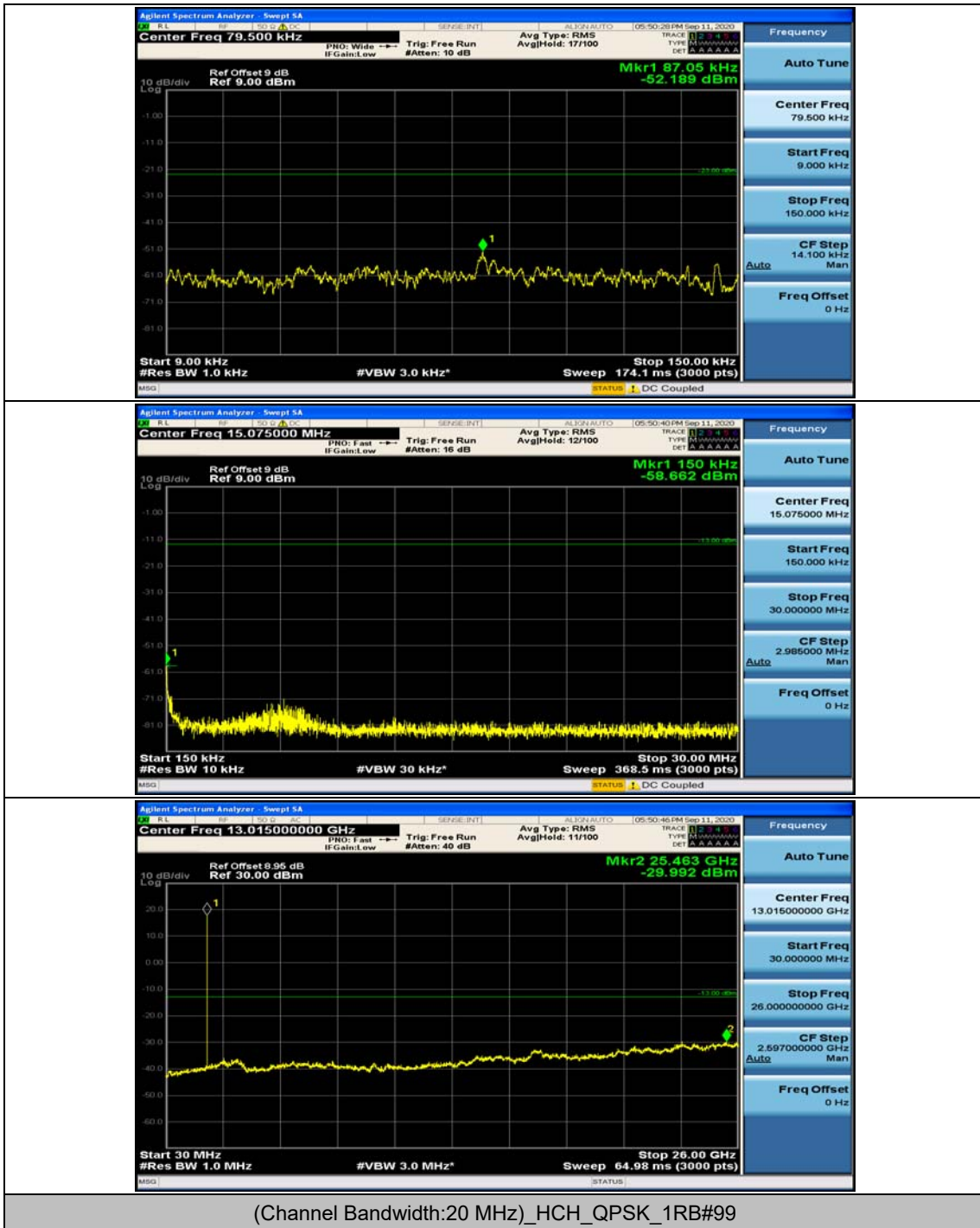


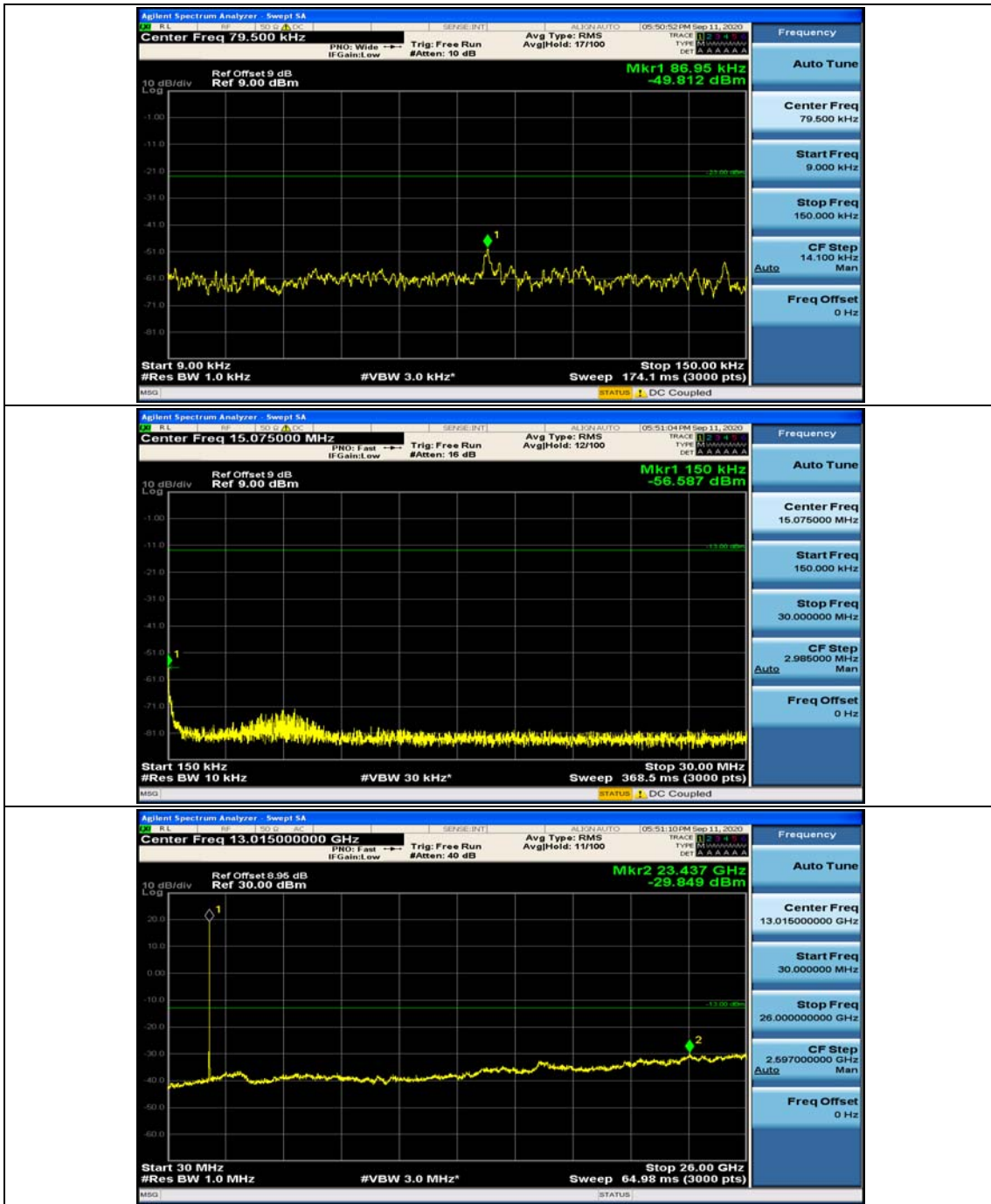


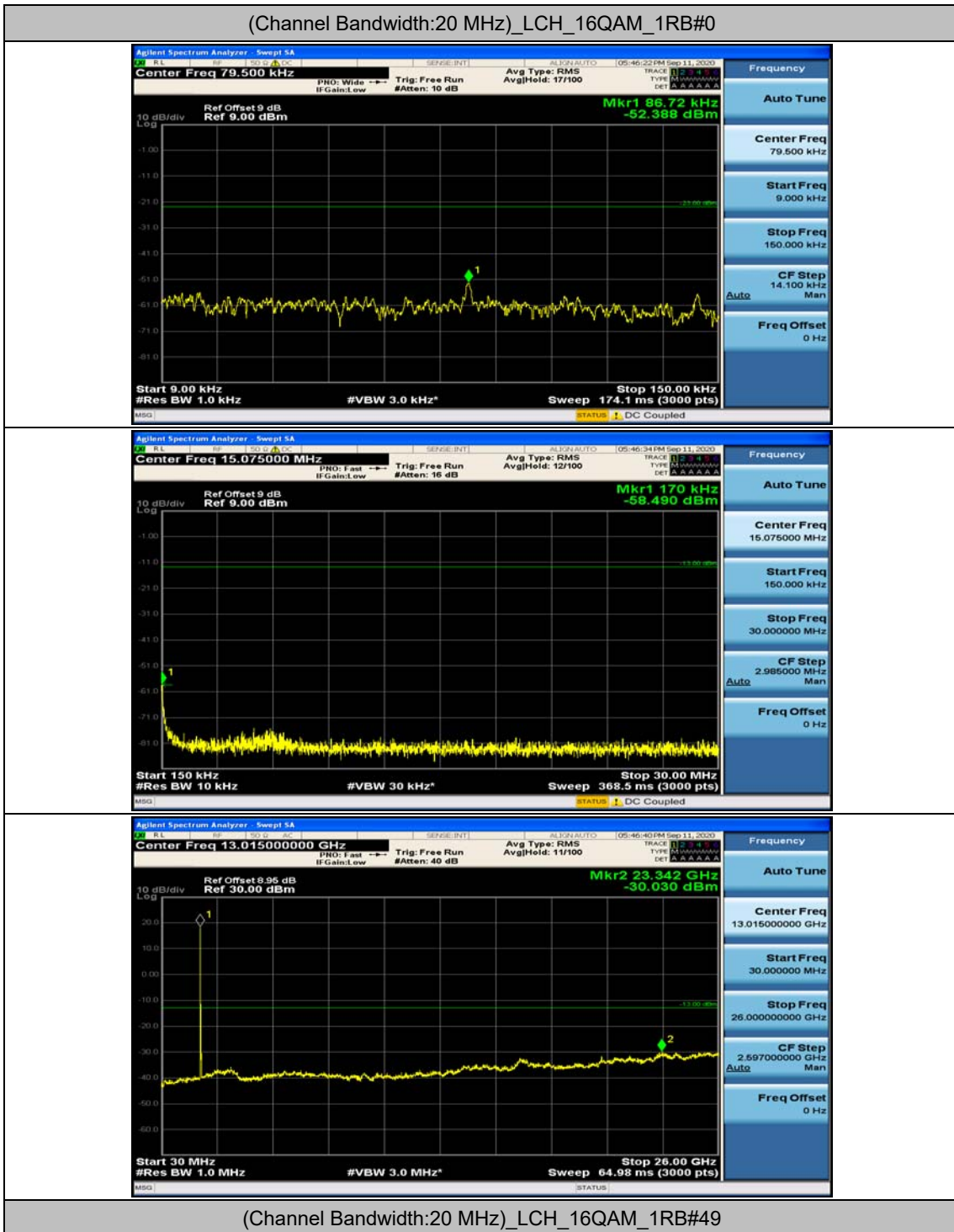
(Channel Bandwidth:20 MHz)\_HCH\_QPSK\_1RB#0

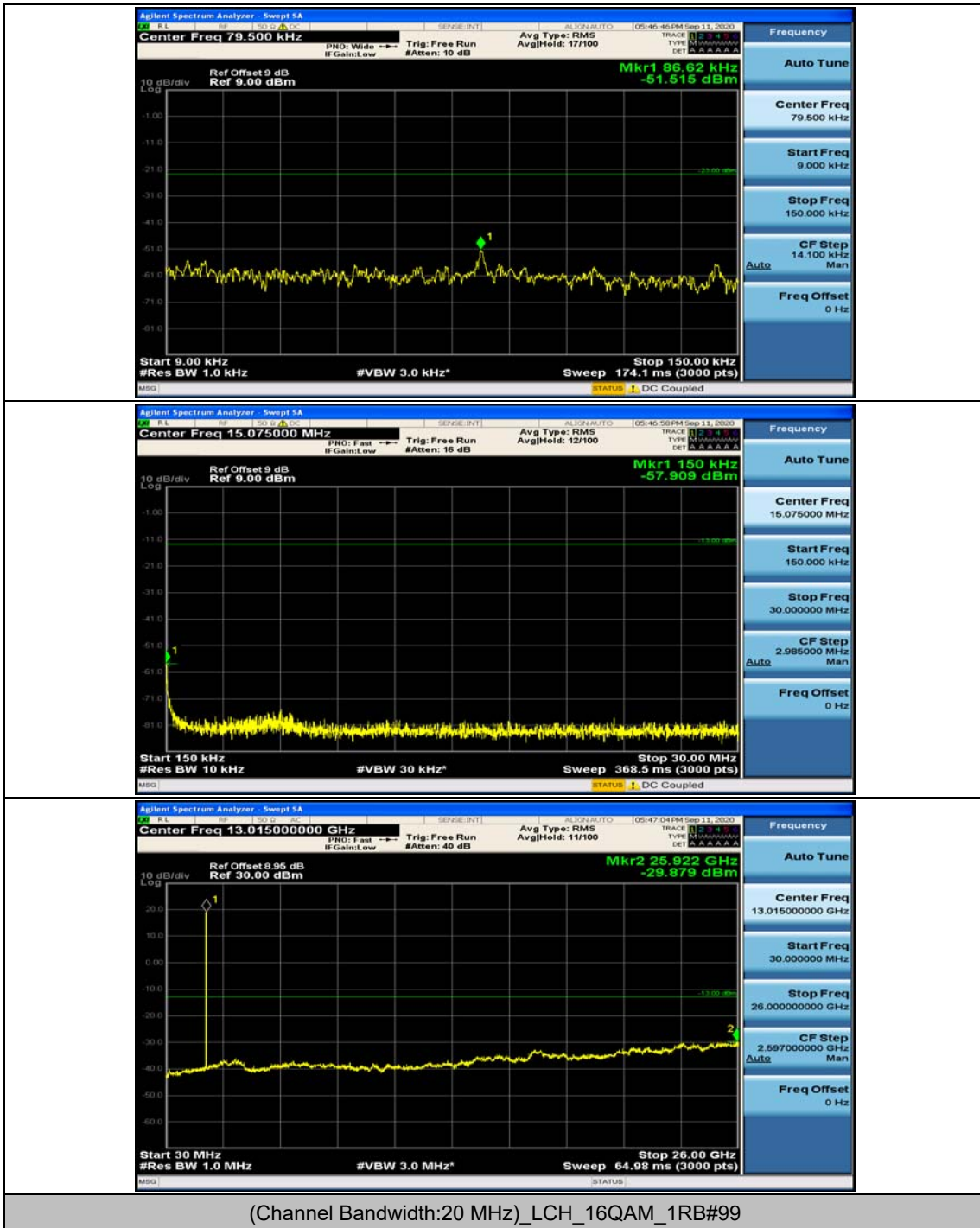


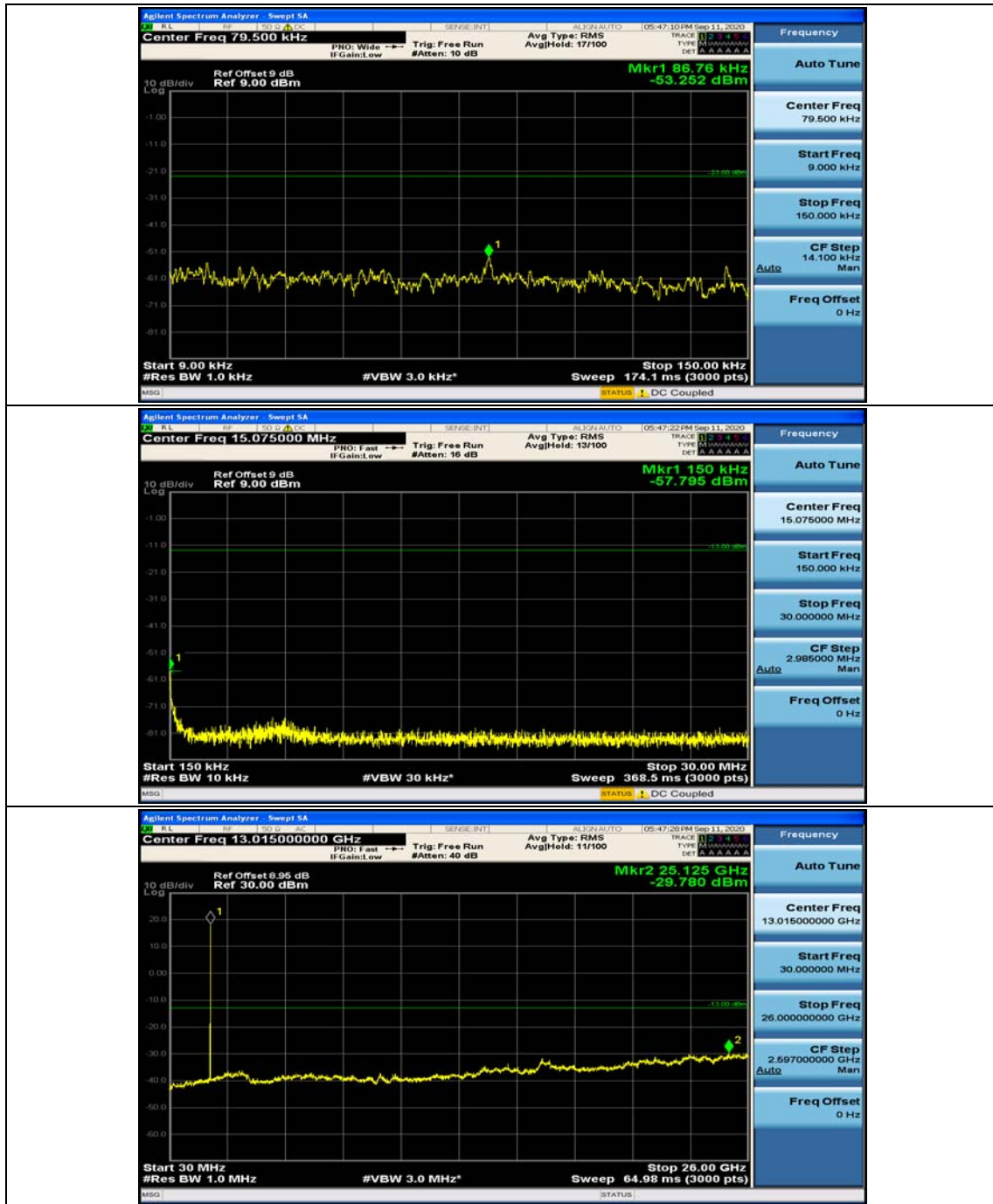
(Channel Bandwidth:20 MHz)\_HCH\_QPSK\_1RB#49





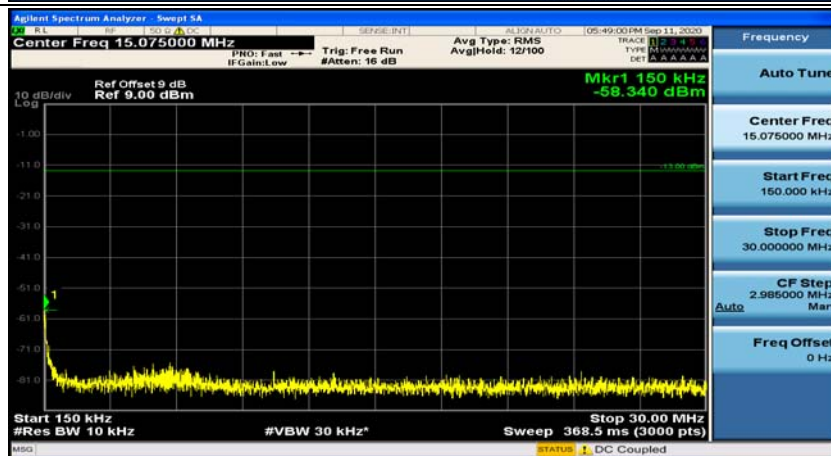
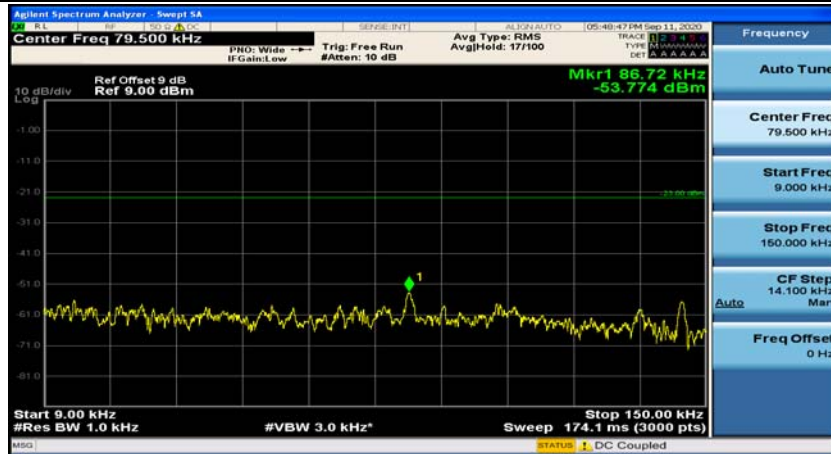




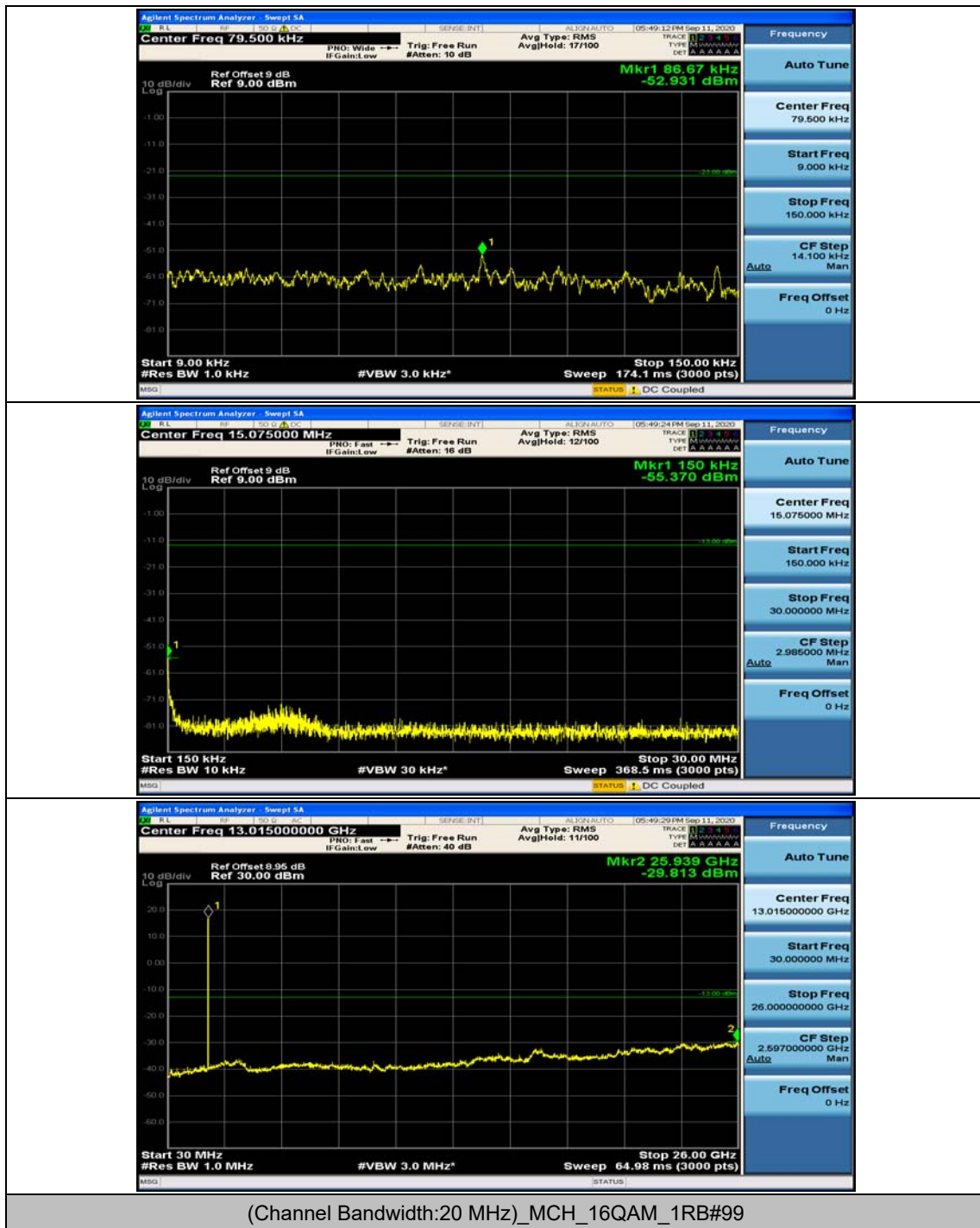


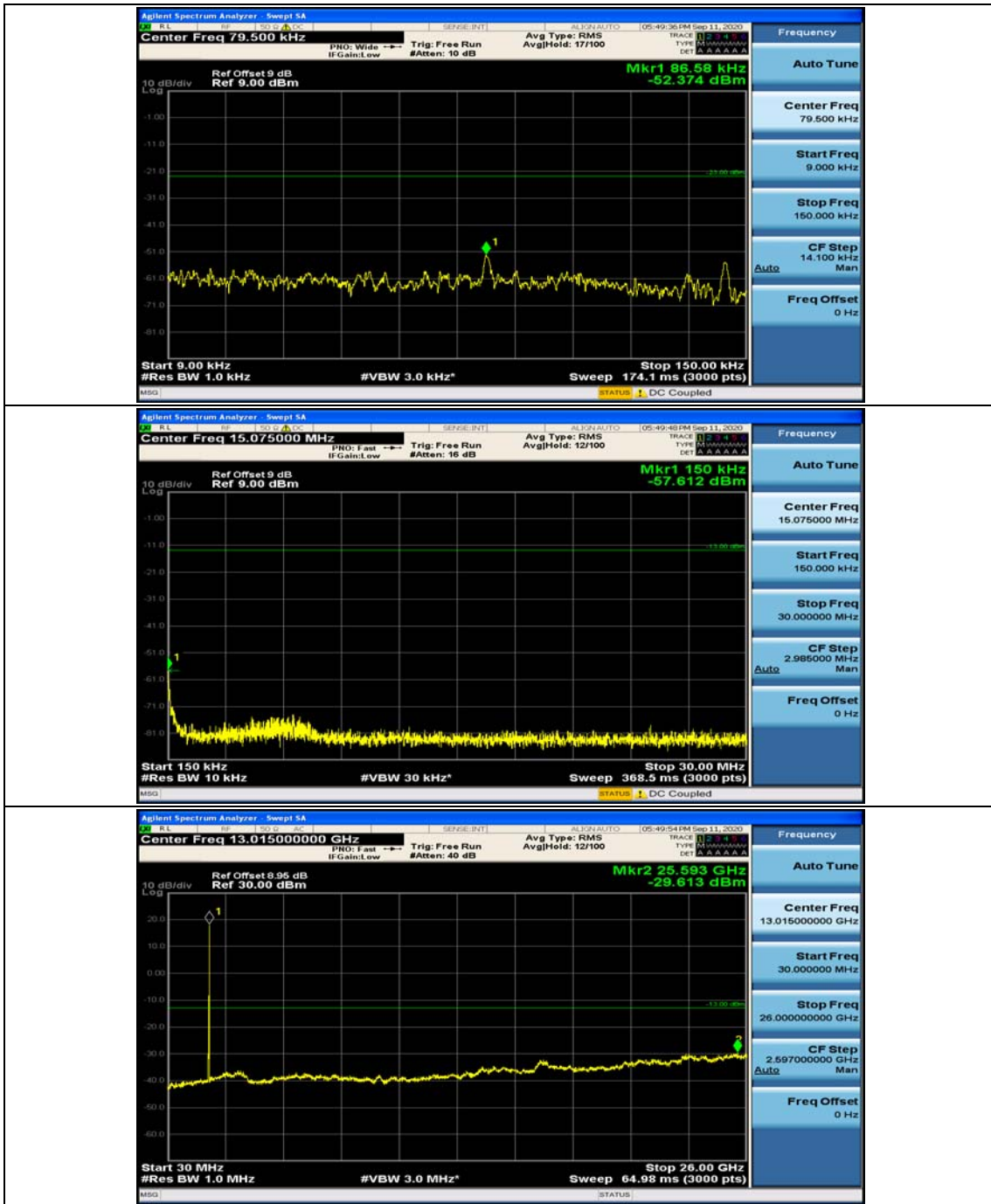


(Channel Bandwidth:20 MHz)\_MCH\_16QAM\_1RB#0

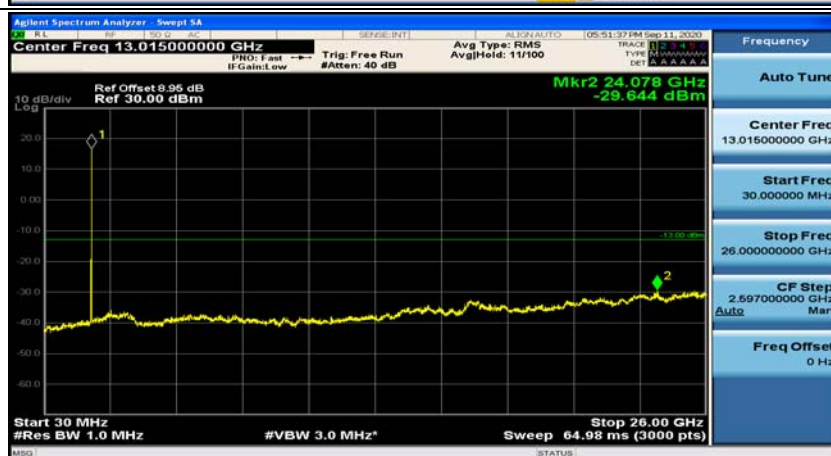
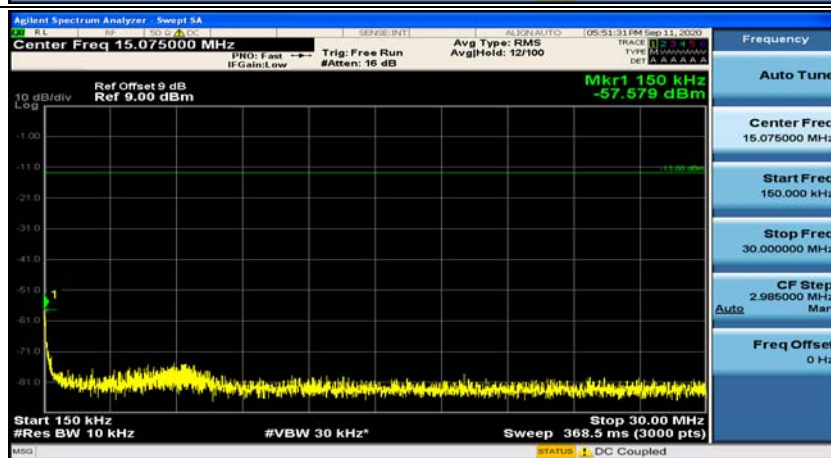
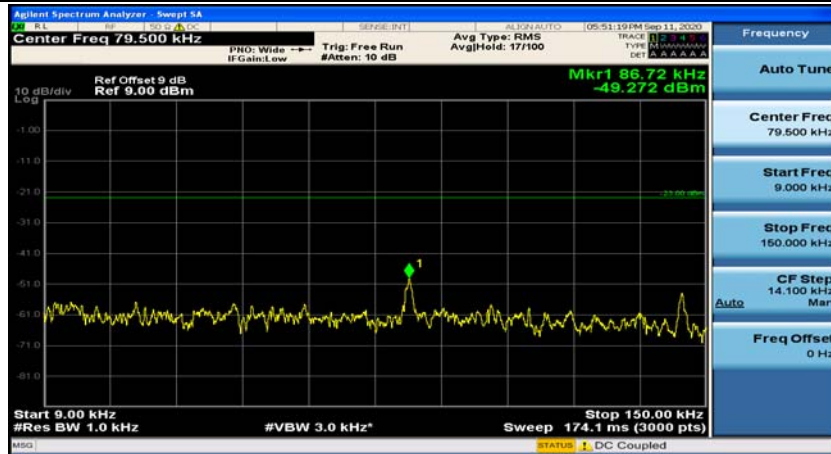


(Channel Bandwidth:20 MHz)\_MCH\_16QAM\_1RB#49

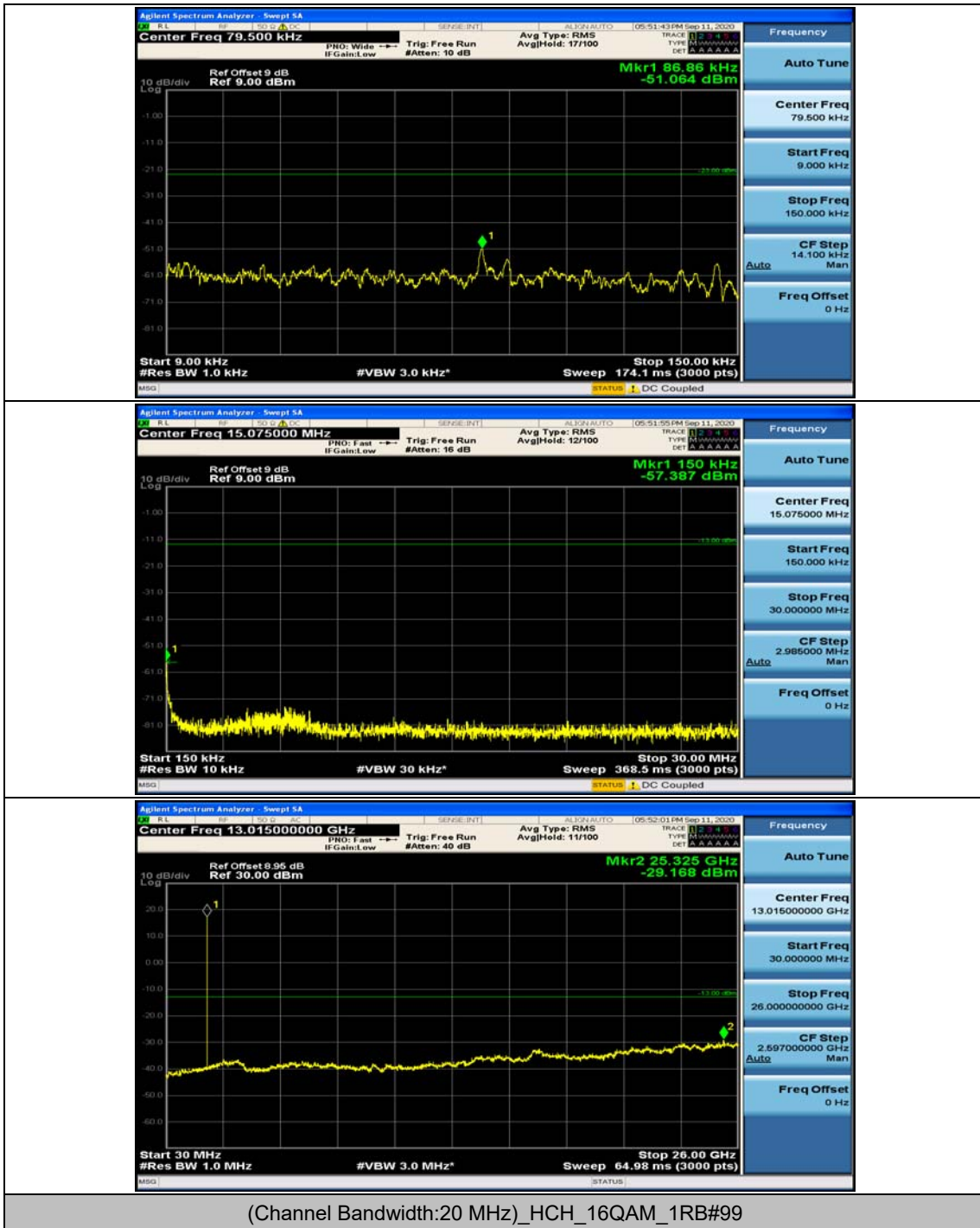


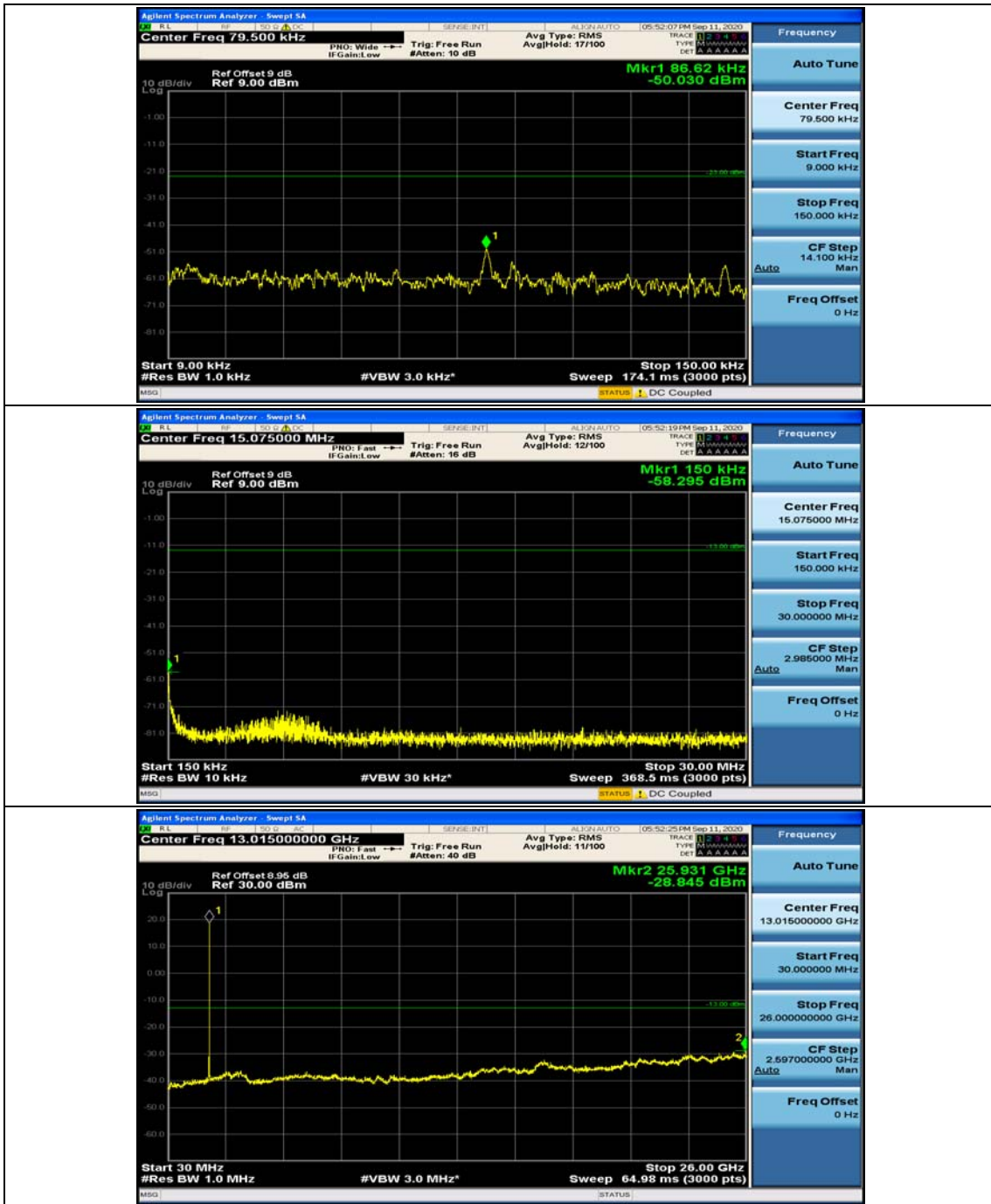


(Channel Bandwidth:20 MHz)\_HCH\_16QAM\_1RB#0



(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	3.91	0.002113	± 2.5	PASS
		VN	TN	2.56	0.001383	± 2.5	PASS
		VH	TN	3.52	0.001902	± 2.5	PASS
	MCH	VL	TN	1.96	0.001043	± 2.5	PASS
		VN	TN	1.55	0.000824	± 2.5	PASS
		VH	TN	-0.44	-0.000234	± 2.5	PASS
	HCH	VL	TN	0.2	0.000105	± 2.5	PASS
		VN	TN	-1.55	-0.000812	± 2.5	PASS
		VH	TN	4.92	0.002577	± 2.5	PASS
16QAM	LCH	VL	TN	0.28	0.000151	± 2.5	PASS
		VN	TN	1.72	0.000929	± 2.5	PASS
		VH	TN	4.76	0.002572	± 2.5	PASS
	MCH	VL	TN	1.74	0.000926	± 2.5	PASS
		VN	TN	3.8	0.002021	± 2.5	PASS
		VH	TN	3.41	0.001814	± 2.5	PASS
	HCH	VL	TN	1.38	0.000723	± 2.5	PASS
		VN	TN	1.44	0.000754	± 2.5	PASS
		VH	TN	-0.13	-0.000068	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	3.15	0.001702	± 2.5	PASS
		VN	-20	3.66	0.001978	± 2.5	PASS
		VN	-10	1.82	0.000983	± 2.5	PASS
		VN	0	0.56	0.000303	± 2.5	PASS
		VN	10	2.8	0.001513	± 2.5	PASS
		VN	20	3.85	0.002080	± 2.5	PASS
		VN	30	4.49	0.002426	± 2.5	PASS
		VN	40	2.74	0.001481	± 2.5	PASS
		VN	50	2.19	0.001183	± 2.5	PASS

	MCH	VN	-30	2.28	0.001213	± 2.5	PASS
		VN	-20	-0.49	-0.000261	± 2.5	PASS
		VN	-10	4.28	0.002277	± 2.5	PASS
		VN	0	1.4	0.000745	± 2.5	PASS
		VN	10	-0.36	-0.000191	± 2.5	PASS
		VN	20	2.65	0.001410	± 2.5	PASS
		VN	30	-0.96	-0.000511	± 2.5	PASS
		VN	40	3.14	0.001670	± 2.5	PASS
		VN	50	-0.12	-0.000064	± 2.5	PASS
	HCH	VN	-30	4.63	0.002425	± 2.5	PASS
		VN	-20	1.14	0.000597	± 2.5	PASS
		VN	-10	0.25	0.000131	± 2.5	PASS
		VN	0	-1.73	-0.000906	± 2.5	PASS
		VN	10	2.89	0.001514	± 2.5	PASS
		VN	20	-0.69	-0.000361	± 2.5	PASS
		VN	30	-0.81	-0.000424	± 2.5	PASS
		VN	40	-0.77	-0.000403	± 2.5	PASS
		VN	50	4.77	0.002498	± 2.5	PASS
16QAM	LCH	VN	-30	4.15	0.002242	± 2.5	PASS
		VN	-20	-0.61	-0.000330	± 2.5	PASS
		VN	-10	2.45	0.001324	± 2.5	PASS
		VN	0	-0.22	-0.000119	± 2.5	PASS
		VN	10	0.42	0.000227	± 2.5	PASS
		VN	20	2.88	0.001556	± 2.5	PASS
		VN	30	3.13	0.001691	± 2.5	PASS
		VN	40	-1.6	-0.000865	± 2.5	PASS
		VN	50	4.89	0.002642	± 2.5	PASS
	MCH	VN	-30	3.55	0.001888	± 2.5	PASS
		VN	-20	2.75	0.001463	± 2.5	PASS
		VN	-10	-0.3	-0.000160	± 2.5	PASS
		VN	0	1.01	0.000537	± 2.5	PASS
		VN	10	-1.06	-0.000564	± 2.5	PASS
		VN	20	-0.29	-0.000154	± 2.5	PASS
		VN	30	-1.05	-0.000559	± 2.5	PASS
		VN	40	2	0.001064	± 2.5	PASS
		VN	50	1.6	0.000851	± 2.5	PASS
	HCH	VN	-30	3.84	0.002011	± 2.5	PASS
		VN	-20	4.26	0.002231	± 2.5	PASS
		VN	-10	4.77	0.002498	± 2.5	PASS
		VN	0	3.74	0.001959	± 2.5	PASS
		VN	10	3.38	0.001770	± 2.5	PASS



		VN	20	4.32	0.002263	± 2.5	PASS
		VN	30	2.67	0.001398	± 2.5	PASS
		VN	40	2.48	0.001299	± 2.5	PASS
		VN	50	2.34	0.001226	± 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	2.14	0.001156	± 2.5	PASS
		VN	TN	-0.8	-0.000432	± 2.5	PASS
		VH	TN	4.63	0.002501	± 2.5	PASS
	MCH	VL	TN	3.52	0.001872	± 2.5	PASS
		VN	TN	-0.78	-0.000415	± 2.5	PASS
		VH	TN	-1.29	-0.000686	± 2.5	PASS
	HCH	VL	TN	4.59	0.002405	± 2.5	PASS
		VN	TN	1.39	0.000728	± 2.5	PASS
		VH	TN	4.88	0.002557	± 2.5	PASS
16QAM	LCH	VL	TN	0.72	0.000389	± 2.5	PASS
		VN	TN	2.42	0.001307	± 2.5	PASS
		VH	TN	0.16	0.000086	± 2.5	PASS
	MCH	VL	TN	1.73	0.000920	± 2.5	PASS
		VN	TN	-1.18	-0.000628	± 2.5	PASS
		VH	TN	2.54	0.001351	± 2.5	PASS
	HCH	VL	TN	2.07	0.001085	± 2.5	PASS
		VN	TN	1.52	0.000796	± 2.5	PASS
		VH	TN	-1.47	-0.000770	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-1.15	-0.000621	± 2.5	PASS
		VN	-20	3.1	0.001674	± 2.5	PASS
		VN	-10	2.8	0.001512	± 2.5	PASS
		VN	0	-1.36	-0.000735	± 2.5	PASS
		VN	10	2.9	0.001566	± 2.5	PASS
		VN	20	-1.16	-0.000627	± 2.5	PASS
		VN	30	0.08	0.000043	± 2.5	PASS
		VN	40	1.35	0.000729	± 2.5	PASS
		VN	50	4.44	0.002398	± 2.5	PASS
	MCH	VN	-30	1.06	0.000564	± 2.5	PASS

	VN	VN	-20	0.07	0.000037	± 2.5	PASS
		VN	-10	-0.59	-0.000314	± 2.5	PASS
		VN	0	0.43	0.000229	± 2.5	PASS
		VN	10	2.81	0.001495	± 2.5	PASS
		VN	20	4.66	0.002479	± 2.5	PASS
		VN	30	-1.18	-0.000628	± 2.5	PASS
		VN	40	4.07	0.002165	± 2.5	PASS
		VN	50	4.78	0.002543	± 2.5	PASS
	HCH	VN	-30	-0.91	-0.000477	± 2.5	PASS
		VN	-20	3.11	0.001630	± 2.5	PASS
		VN	-10	-0.87	-0.000456	± 2.5	PASS
		VN	0	3.43	0.001797	± 2.5	PASS
		VN	10	3.03	0.001588	± 2.5	PASS
		VN	20	4.42	0.002316	± 2.5	PASS
		VN	30	0.66	0.000346	± 2.5	PASS
		VN	40	1.59	0.000833	± 2.5	PASS
		VN	50	1.59	0.000833	± 2.5	PASS
		16QAM	LCH	VN	-30	1.15	0.000621
VN	-20			-0.8	-0.000432	± 2.5	PASS
VN	-10			0.28	0.000151	± 2.5	PASS
VN	0			-0.33	-0.000178	± 2.5	PASS
VN	10			2.74	0.001480	± 2.5	PASS
VN	20			-0.45	-0.000243	± 2.5	PASS
VN	30			3.47	0.001874	± 2.5	PASS
VN	40			0.67	0.000362	± 2.5	PASS
VN	50			3.86	0.002085	± 2.5	PASS
MCH	VN		-30	3.42	0.001819	± 2.5	PASS
	VN		-20	2	0.001064	± 2.5	PASS
	VN		-10	4.51	0.002399	± 2.5	PASS
	VN		0	-0.06	-0.000032	± 2.5	PASS
	VN		10	3.79	0.002016	± 2.5	PASS
	VN		20	4.35	0.002314	± 2.5	PASS
	VN		30	-1.83	-0.000973	± 2.5	PASS
	VN		40	2.31	0.001229	± 2.5	PASS
	VN		50	2.47	0.001314	± 2.5	PASS
HCH	VN		-30	-0.87	-0.000456	± 2.5	PASS
	VN		-20	-0.93	-0.000487	± 2.5	PASS
	VN		-10	3.5	0.001834	± 2.5	PASS
	VN		0	4.14	0.002169	± 2.5	PASS
	VN		10	-1.29	-0.000676	± 2.5	PASS
	VN		20	0.13	0.000068	± 2.5	PASS

		VN	30	1.34	0.000702	± 2.5	PASS
		VN	40	2.51	0.001315	± 2.5	PASS
		VN	50	1.92	0.001006	± 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	2.08	0.001123	± 2.5	PASS
		VN	TN	2.92	0.001576	± 2.5	PASS
		VH	TN	-0.19	-0.000103	± 2.5	PASS
	MCH	VL	TN	4.36	0.002319	± 2.5	PASS
		VN	TN	2.67	0.001420	± 2.5	PASS
		VH	TN	1.7	0.000904	± 2.5	PASS
	HCH	VL	TN	4.38	0.002296	± 2.5	PASS
		VN	TN	-0.96	-0.000503	± 2.5	PASS
		VH	TN	4.9	0.002569	± 2.5	PASS
16QAM	LCH	VL	TN	1.86	0.001004	± 2.5	PASS
		VN	TN	4.3	0.002321	± 2.5	PASS
		VH	TN	1.56	0.000842	± 2.5	PASS
	MCH	VL	TN	0.82	0.000436	± 2.5	PASS
		VN	TN	2.93	0.001559	± 2.5	PASS
		VH	TN	-1.24	-0.000660	± 2.5	PASS
	HCH	VL	TN	0.42	0.000220	± 2.5	PASS
		VN	TN	3.89	0.002039	± 2.5	PASS
		VH	TN	0.59	0.000309	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-1.84	-0.000993	± 2.5	PASS
		VN	-20	0.13	0.000070	± 2.5	PASS
		VN	-10	2.12	0.001144	± 2.5	PASS
		VN	0	1.01	0.000545	± 2.5	PASS
		VN	10	-0.76	-0.000410	± 2.5	PASS
		VN	20	0.78	0.000421	± 2.5	PASS
		VN	30	3.56	0.001922	± 2.5	PASS
		VN	40	-1.7	-0.000918	± 2.5	PASS
		VN	50	2.72	0.001468	± 2.5	PASS
	MCH	VN	-30	3.74	0.001989	± 2.5	PASS
		VN	-20	3.26	0.001734	± 2.5	PASS

		VN	-10	-1.6	-0.000851	± 2.5	PASS		
		VN	0	-1	-0.000532	± 2.5	PASS		
		VN	10	-1.85	-0.000984	± 2.5	PASS		
		VN	20	-0.25	-0.000133	± 2.5	PASS		
		VN	30	4.05	0.002154	± 2.5	PASS		
		VN	40	-0.19	-0.000101	± 2.5	PASS		
		VN	50	4.36	0.002319	± 2.5	PASS		
	HCH	VN	-30	-1.82	-0.000954	± 2.5	PASS		
		VN	-20	4.19	0.002197	± 2.5	PASS		
		VN	-10	-1.94	-0.001017	± 2.5	PASS		
		VN	0	4.76	0.002495	± 2.5	PASS		
		VN	10	3.09	0.001620	± 2.5	PASS		
		VN	20	0.43	0.000225	± 2.5	PASS		
		VN	30	4.79	0.002511	± 2.5	PASS		
		VN	40	-1.52	-0.000797	± 2.5	PASS		
		VN	50	-1.47	-0.000771	± 2.5	PASS		
		16QAM	LCH	VN	-30	3.53	0.001906	± 2.5	PASS
				VN	-20	4.4	0.002375	± 2.5	PASS
VN	-10			4.24	0.002289	± 2.5	PASS		
VN	0			1.71	0.000923	± 2.5	PASS		
VN	10			1.81	0.000977	± 2.5	PASS		
VN	20			-0.85	-0.000459	± 2.5	PASS		
VN	30			3.29	0.001776	± 2.5	PASS		
VN	40			0.23	0.000124	± 2.5	PASS		
VN	50			-0.73	-0.000394	± 2.5	PASS		
MCH	VN		-30	-1.55	-0.000824	± 2.5	PASS		
	VN		-20	2.67	0.001420	± 2.5	PASS		
	VN		-10	0.26	0.000138	± 2.5	PASS		
	VN		0	1.66	0.000883	± 2.5	PASS		
	VN		10	-0.65	-0.000346	± 2.5	PASS		
	VN		20	4.28	0.002277	± 2.5	PASS		
	VN		30	4.93	0.002622	± 2.5	PASS		
	VN		40	0.22	0.000117	± 2.5	PASS		
	VN		50	0.26	0.000138	± 2.5	PASS		
HCH	VN		-30	3.31	0.001735	± 2.5	PASS		
	VN		-20	4.61	0.002417	± 2.5	PASS		
	VN		-10	1.42	0.000744	± 2.5	PASS		
	VN		0	1.21	0.000634	± 2.5	PASS		
	VN		10	-1.74	-0.000912	± 2.5	PASS		
	VN		20	2.23	0.001169	± 2.5	PASS		
	VN		30	2.65	0.001389	± 2.5	PASS		

		VN	40	3.23	0.001693	± 2.5	PASS
		VN	50	4.96	0.002600	± 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	4.12	0.002221	± 2.5	PASS
		VN	TN	0.73	0.000394	± 2.5	PASS
		VH	TN	4.21	0.002270	± 2.5	PASS
	MCH	VL	TN	1.22	0.000649	± 2.5	PASS
		VN	TN	-1.93	-0.001027	± 2.5	PASS
		VH	TN	2.41	0.001282	± 2.5	PASS
	HCH	VL	TN	3.71	0.001948	± 2.5	PASS
		VN	TN	-0.62	-0.000325	± 2.5	PASS
		VH	TN	3.55	0.001864	± 2.5	PASS
16QAM	LCH	VL	TN	2.45	0.001321	± 2.5	PASS
		VN	TN	-1.72	-0.000927	± 2.5	PASS
		VH	TN	4.36	0.002350	± 2.5	PASS
	MCH	VL	TN	4.97	0.002644	± 2.5	PASS
		VN	TN	-0.81	-0.000431	± 2.5	PASS
		VH	TN	2.86	0.001521	± 2.5	PASS
	HCH	VL	TN	-0.73	-0.000383	± 2.5	PASS
		VN	TN	-0.34	-0.000178	± 2.5	PASS
		VH	TN	-0.48	-0.000252	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	5	0.002695	± 2.5	PASS
		VN	-20	1.91	0.001030	± 2.5	PASS
		VN	-10	-1.47	-0.000792	± 2.5	PASS
		VN	0	3.85	0.002075	± 2.5	PASS
		VN	10	-0.83	-0.000447	± 2.5	PASS
		VN	20	3.91	0.002108	± 2.5	PASS
		VN	30	4.47	0.002410	± 2.5	PASS
		VN	40	-0.32	-0.000173	± 2.5	PASS
		VN	50	-1.14	-0.000615	± 2.5	PASS
	MCH	VN	-30	2.33	0.001239	± 2.5	PASS
		VN	-20	2.33	0.001239	± 2.5	PASS
		VN	-10	1.59	0.000846	± 2.5	PASS

		VN	0	-0.76	-0.000404	± 2.5	PASS		
		VN	10	4.84	0.002574	± 2.5	PASS		
		VN	20	-1.03	-0.000548	± 2.5	PASS		
		VN	30	-1.49	-0.000793	± 2.5	PASS		
		VN	40	-1.05	-0.000559	± 2.5	PASS		
		VN	50	-0.74	-0.000394	± 2.5	PASS		
	HCH	VN	-30	3.64	0.001911	± 2.5	PASS		
		VN	-20	2.47	0.001297	± 2.5	PASS		
		VN	-10	2.42	0.001270	± 2.5	PASS		
		VN	0	2.86	0.001501	± 2.5	PASS		
		VN	10	4.32	0.002268	± 2.5	PASS		
		VN	20	2.64	0.001386	± 2.5	PASS		
		VN	30	0.08	0.000042	± 2.5	PASS		
		VN	40	0.34	0.000178	± 2.5	PASS		
		VN	50	-0.11	-0.000058	± 2.5	PASS		
		16QAM	LCH	VN	-30	1.17	0.000631	± 2.5	PASS
				VN	-20	4.91	0.002647	± 2.5	PASS
				VN	-10	-0.48	-0.000259	± 2.5	PASS
				VN	0	1.46	0.000787	± 2.5	PASS
VN	10			0.78	0.000420	± 2.5	PASS		
VN	20			-1.45	-0.000782	± 2.5	PASS		
VN	30			0.55	0.000296	± 2.5	PASS		
VN	40			4.55	0.002453	± 2.5	PASS		
VN	50			-0.73	-0.000394	± 2.5	PASS		
MCH	VN		-30	4.15	0.002207	± 2.5	PASS		
	VN		-20	1.62	0.000862	± 2.5	PASS		
	VN		-10	-1.7	-0.000904	± 2.5	PASS		
	VN		0	-1.18	-0.000628	± 2.5	PASS		
	VN		10	3.73	0.001984	± 2.5	PASS		
	VN		20	1.42	0.000755	± 2.5	PASS		
	VN		30	-0.1	-0.000053	± 2.5	PASS		
	VN		40	2.74	0.001457	± 2.5	PASS		
	VN		50	4.15	0.002207	± 2.5	PASS		
HCH	VN		-30	0.53	0.000278	± 2.5	PASS		
	VN	-20	-0.01	-0.000005	± 2.5	PASS			
	VN	-10	-1.66	-0.000871	± 2.5	PASS			
	VN	0	1.01	0.000530	± 2.5	PASS			
	VN	10	3.76	0.001974	± 2.5	PASS			
	VN	20	4.16	0.002184	± 2.5	PASS			
	VN	30	-0.13	-0.000068	± 2.5	PASS			
	VN	40	-0.22	-0.000115	± 2.5	PASS			

		VN	50	-0.57	-0.000299	± 2.5	PASS
--	--	----	----	-------	-----------	-------	------

**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	0.52	0.000280	± 2.5	PASS
		VN	TN	1.77	0.000953	± 2.5	PASS
		VH	TN	-1.39	-0.000748	± 2.5	PASS
	MCH	VL	TN	3.7	0.001968	± 2.5	PASS
		VN	TN	-1.27	-0.000676	± 2.5	PASS
		VH	TN	2.54	0.001351	± 2.5	PASS
	HCH	VL	TN	0.81	0.000426	± 2.5	PASS
		VN	TN	3.22	0.001693	± 2.5	PASS
		VH	TN	3.86	0.002029	± 2.5	PASS
16QAM	LCH	VL	TN	-0.13	-0.000070	± 2.5	PASS
		VN	TN	0.34	0.000183	± 2.5	PASS
		VH	TN	-0.16	-0.000086	± 2.5	PASS
	MCH	VL	TN	-1.69	-0.000899	± 2.5	PASS
		VN	TN	3.47	0.001846	± 2.5	PASS
		VH	TN	-0.3	-0.000160	± 2.5	PASS
	HCH	VL	TN	0.32	0.000168	± 2.5	PASS
		VN	TN	-0.25	-0.000131	± 2.5	PASS
		VH	TN	0.84	0.000442	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-1.13	-0.000608	± 2.5	PASS
		VN	-20	1.17	0.000630	± 2.5	PASS
		VN	-10	1.89	0.001017	± 2.5	PASS
		VN	0	1.12	0.000603	± 2.5	PASS
		VN	10	1.26	0.000678	± 2.5	PASS
		VN	20	2.84	0.001529	± 2.5	PASS
		VN	30	0.74	0.000398	± 2.5	PASS
		VN	40	-1.77	-0.000953	± 2.5	PASS
		VN	50	-0.8	-0.000431	± 2.5	PASS
	MCH	VN	-30	2.6	0.001383	± 2.5	PASS
		VN	-20	2.67	0.001420	± 2.5	PASS
		VN	-10	2.64	0.001404	± 2.5	PASS
		VN	0	-1.27	-0.000676	± 2.5	PASS

		VN	10	0.15	0.000080	± 2.5	PASS		
		VN	20	2.21	0.001176	± 2.5	PASS		
		VN	30	3.75	0.001995	± 2.5	PASS		
		VN	40	2.94	0.001564	± 2.5	PASS		
		VN	50	0.51	0.000271	± 2.5	PASS		
	HCH	VN	-30	1.74	0.000915	± 2.5	PASS		
		VN	-20	3.11	0.001635	± 2.5	PASS		
		VN	-10	-0.06	-0.000032	± 2.5	PASS		
		VN	0	-0.77	-0.000405	± 2.5	PASS		
		VN	10	0.48	0.000252	± 2.5	PASS		
		VN	20	-1.9	-0.000999	± 2.5	PASS		
		VN	30	1.82	0.000957	± 2.5	PASS		
		VN	40	4.02	0.002113	± 2.5	PASS		
		VN	50	-0.73	-0.000384	± 2.5	PASS		
		16QAM	LCH	VN	-30	-0.23	-0.000124	± 2.5	PASS
				VN	-20	3.74	0.002013	± 2.5	PASS
VN	-10			1.56	0.000840	± 2.5	PASS		
VN	0			1.74	0.000937	± 2.5	PASS		
VN	10			1.05	0.000565	± 2.5	PASS		
VN	20			-0.59	-0.000318	± 2.5	PASS		
VN	30			4.94	0.002659	± 2.5	PASS		
VN	40			-1.19	-0.000641	± 2.5	PASS		
VN	50			1.02	0.000549	± 2.5	PASS		
MCH	VN		-30	0.4	0.000213	± 2.5	PASS		
	VN		-20	1.32	0.000702	± 2.5	PASS		
	VN		-10	-1.59	-0.000846	± 2.5	PASS		
	VN		0	0.64	0.000340	± 2.5	PASS		
	VN		10	-0.11	-0.000059	± 2.5	PASS		
	VN		20	4.68	0.002489	± 2.5	PASS		
	VN		30	-1	-0.000532	± 2.5	PASS		
	VN	40	1.24	0.000660	± 2.5	PASS			
	VN	50	-0.33	-0.000176	± 2.5	PASS			
HCH	VN	-30	1.65	0.000867	± 2.5	PASS			
	VN	-20	0.64	0.000336	± 2.5	PASS			
	VN	-10	-0.27	-0.000142	± 2.5	PASS			
	VN	0	-1.15	-0.000604	± 2.5	PASS			
	VN	10	2.09	0.001099	± 2.5	PASS			
	VN	20	-0.15	-0.000079	± 2.5	PASS			
	VN	30	-0.66	-0.000347	± 2.5	PASS			
	VN	40	1.9	0.000999	± 2.5	PASS			
	VN	50	-0.13	-0.000068	± 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	2.8	0.001505	± 2.5	PASS
		VN	TN	1.4	0.000753	± 2.5	PASS
		VH	TN	0.4	0.000215	± 2.5	PASS
	MCH	VL	TN	1.92	0.001021	± 2.5	PASS
		VN	TN	3.97	0.002112	± 2.5	PASS
		VH	TN	0.11	0.000059	± 2.5	PASS
	HCH	VL	TN	-0.83	-0.000437	± 2.5	PASS
		VN	TN	4.65	0.002447	± 2.5	PASS
		VH	TN	0.64	0.000337	± 2.5	PASS
16QAM	LCH	VL	TN	3.54	0.001903	± 2.5	PASS
		VN	TN	1.85	0.000995	± 2.5	PASS
		VH	TN	-1.96	-0.001054	± 2.5	PASS
	MCH	VL	TN	3.74	0.001989	± 2.5	PASS
		VN	TN	-1.53	-0.000814	± 2.5	PASS
		VH	TN	-0.12	-0.000064	± 2.5	PASS
	HCH	VL	TN	3.03	0.001595	± 2.5	PASS
		VN	TN	1.89	0.000995	± 2.5	PASS
		VH	TN	-0.68	-0.000358	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	1.99	0.001070	± 2.5	PASS
		VN	-20	-1.15	-0.000618	± 2.5	PASS
		VN	-10	-0.38	-0.000204	± 2.5	PASS
		VN	0	2.68	0.001441	± 2.5	PASS
		VN	10	-0.38	-0.000204	± 2.5	PASS
		VN	20	4.75	0.002554	± 2.5	PASS
		VN	30	4.16	0.002237	± 2.5	PASS
		VN	40	-1.13	-0.000608	± 2.5	PASS
		VN	50	2.15	0.001156	± 2.5	PASS
	MCH	VN	-30	-0.87	-0.000463	± 2.5	PASS
		VN	-20	3.15	0.001676	± 2.5	PASS
		VN	-10	-0.23	-0.000122	± 2.5	PASS
		VN	0	-0.12	-0.000064	± 2.5	PASS
		VN	10	-1.31	-0.000697	± 2.5	PASS

		VN	20	0.91	0.000484	± 2.5	PASS
		VN	30	4.48	0.002383	± 2.5	PASS
		VN	40	4.23	0.002250	± 2.5	PASS
		VN	50	1.55	0.000824	± 2.5	PASS
	HCH	VN	-30	1.51	0.000795	± 2.5	PASS
		VN	-20	-0.08	-0.000042	± 2.5	PASS
		VN	-10	2.13	0.001121	± 2.5	PASS
		VN	0	4.39	0.002311	± 2.5	PASS
		VN	10	2.28	0.001200	± 2.5	PASS
		VN	20	3.44	0.001811	± 2.5	PASS
		VN	30	-0.86	-0.000453	± 2.5	PASS
		VN	40	1.08	0.000568	± 2.5	PASS
		VN	50	2.98	0.001568	± 2.5	PASS
16QAM	LCH	VN	-30	4.1	0.002204	± 2.5	PASS
		VN	-20	4.1	0.002204	± 2.5	PASS
		VN	-10	-0.43	-0.000231	± 2.5	PASS
		VN	0	4.5	0.002419	± 2.5	PASS
		VN	10	2.49	0.001339	± 2.5	PASS
		VN	20	-0.78	-0.000419	± 2.5	PASS
		VN	30	4.54	0.002441	± 2.5	PASS
		VN	40	-0.61	-0.000328	± 2.5	PASS
		VN	50	1.76	0.000946	± 2.5	PASS
	MCH	VN	-30	4.12	0.002191	± 2.5	PASS
		VN	-20	2.25	0.001197	± 2.5	PASS
		VN	-10	1.73	0.000920	± 2.5	PASS
		VN	0	1.91	0.001016	± 2.5	PASS
		VN	10	2.42	0.001287	± 2.5	PASS
		VN	20	-1.48	-0.000787	± 2.5	PASS
		VN	30	1.43	0.000761	± 2.5	PASS
		VN	40	-0.86	-0.000457	± 2.5	PASS
		VN	50	-1.18	-0.000628	± 2.5	PASS
	HCH	VN	-30	4.58	0.002411	± 2.5	PASS
		VN	-20	4.33	0.002279	± 2.5	PASS
		VN	-10	1.95	0.001026	± 2.5	PASS
		VN	0	1.11	0.000584	± 2.5	PASS
		VN	10	1.68	0.000884	± 2.5	PASS
		VN	20	2.2	0.001158	± 2.5	PASS
		VN	30	1.6	0.000842	± 2.5	PASS
		VN	40	1.16	0.000611	± 2.5	PASS
		VN	50	4.81	0.002532	± 2.5	PASS