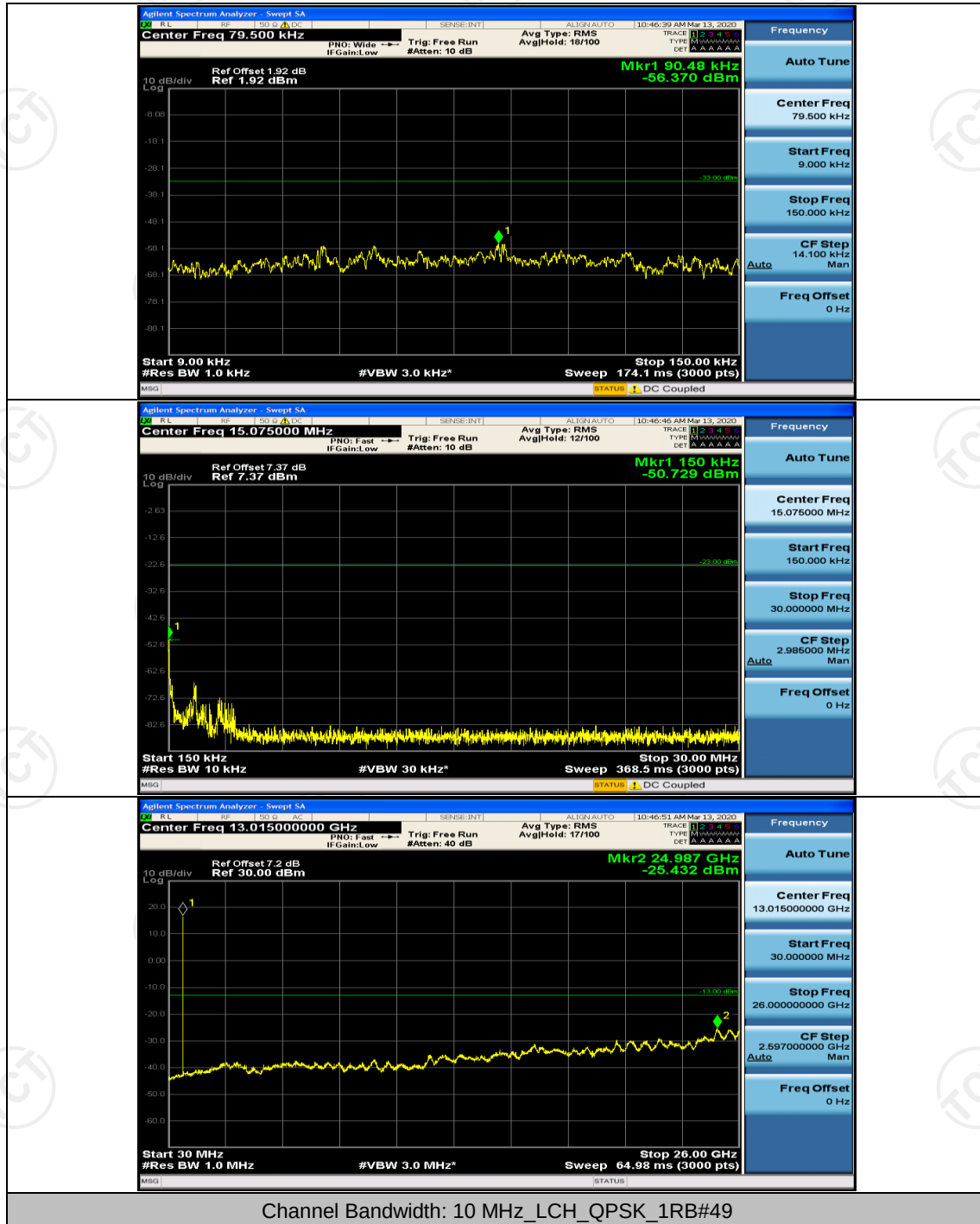
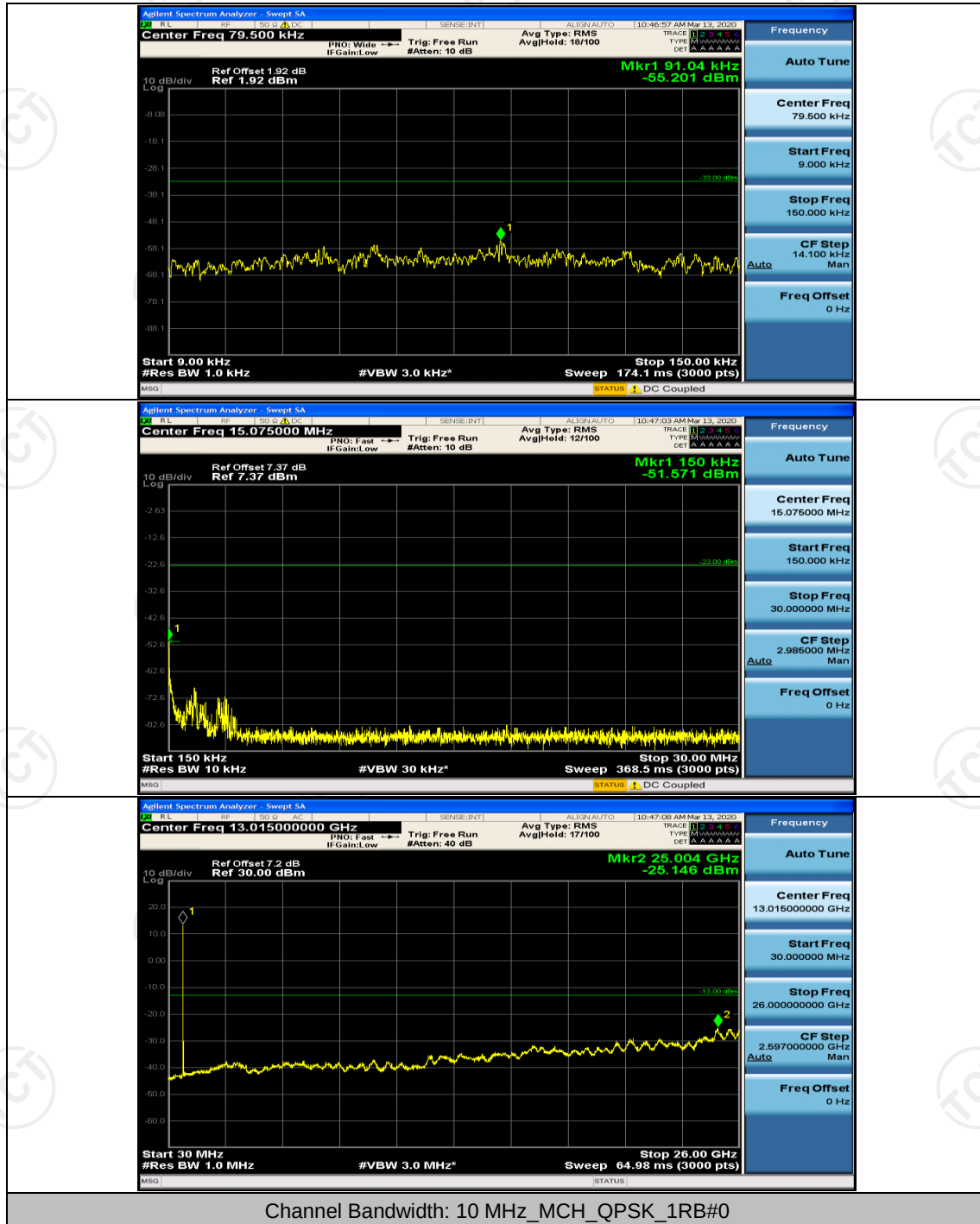
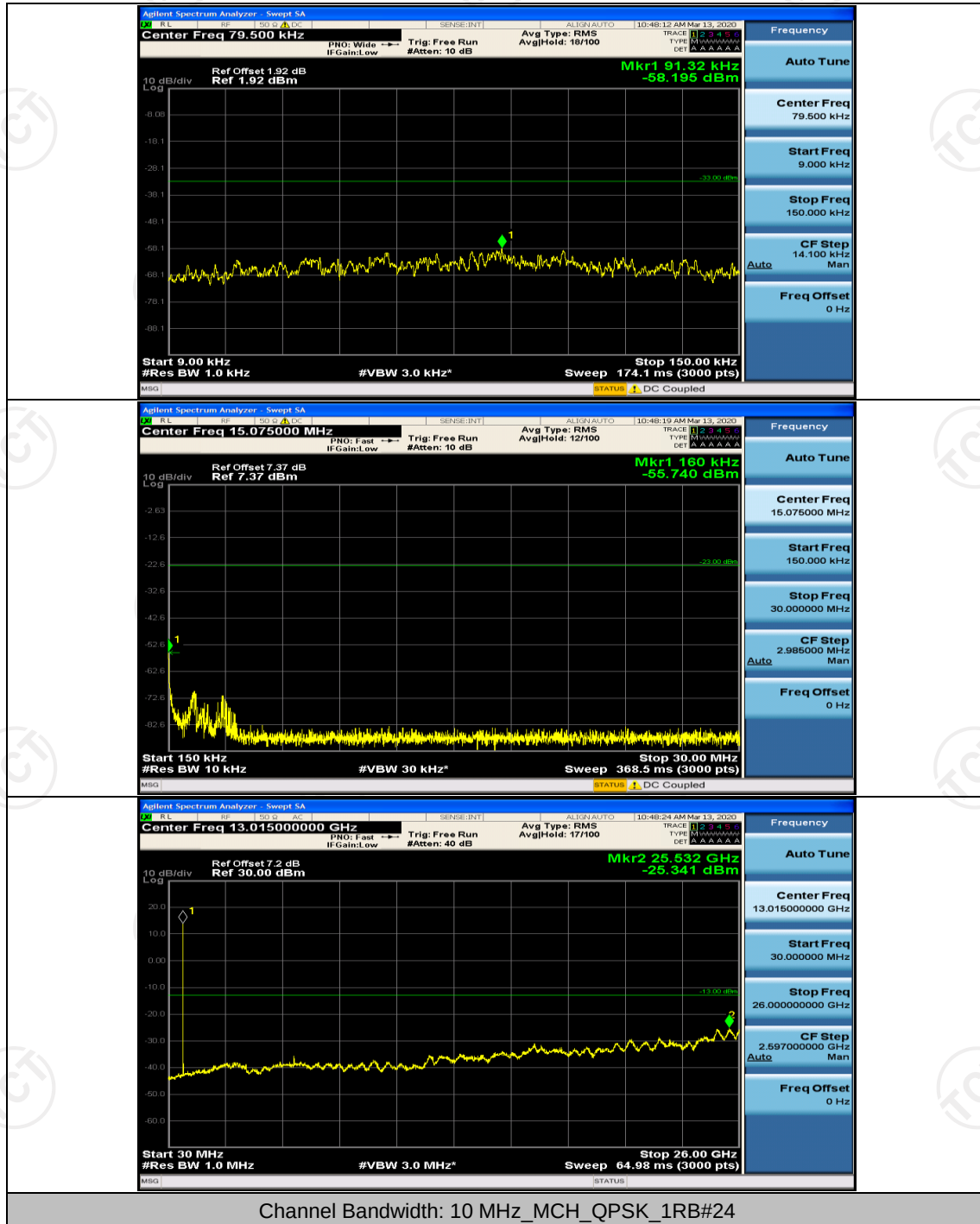
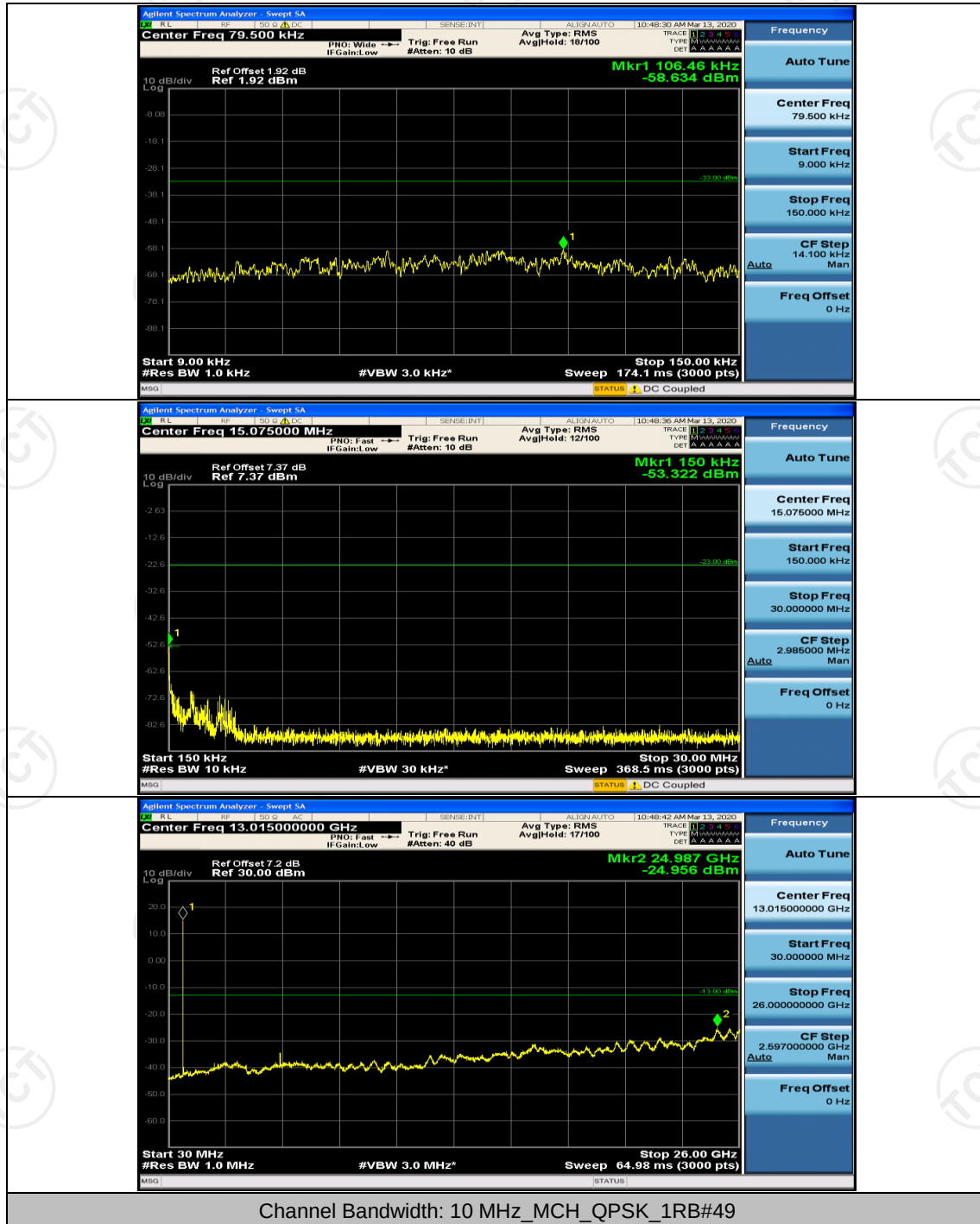
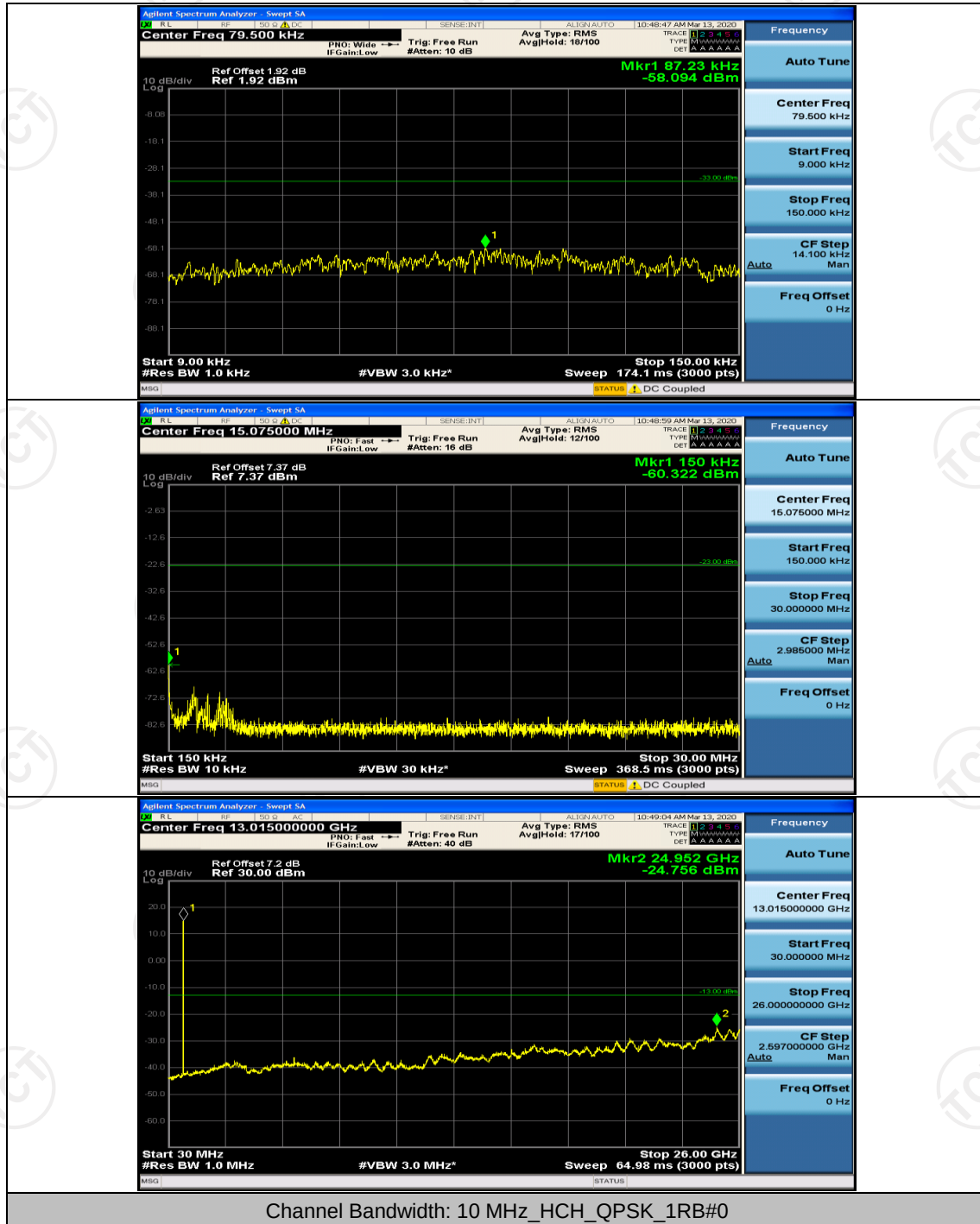


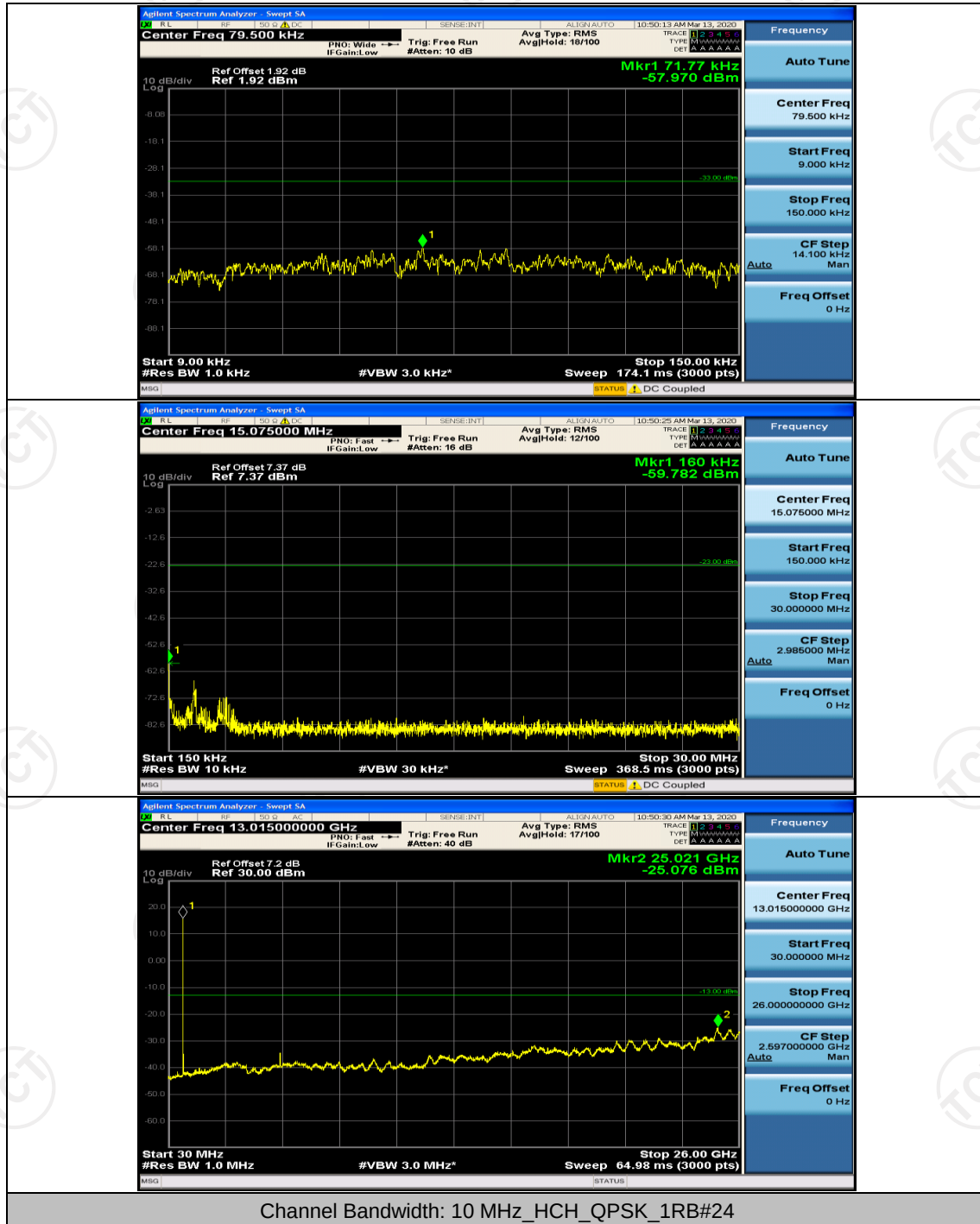


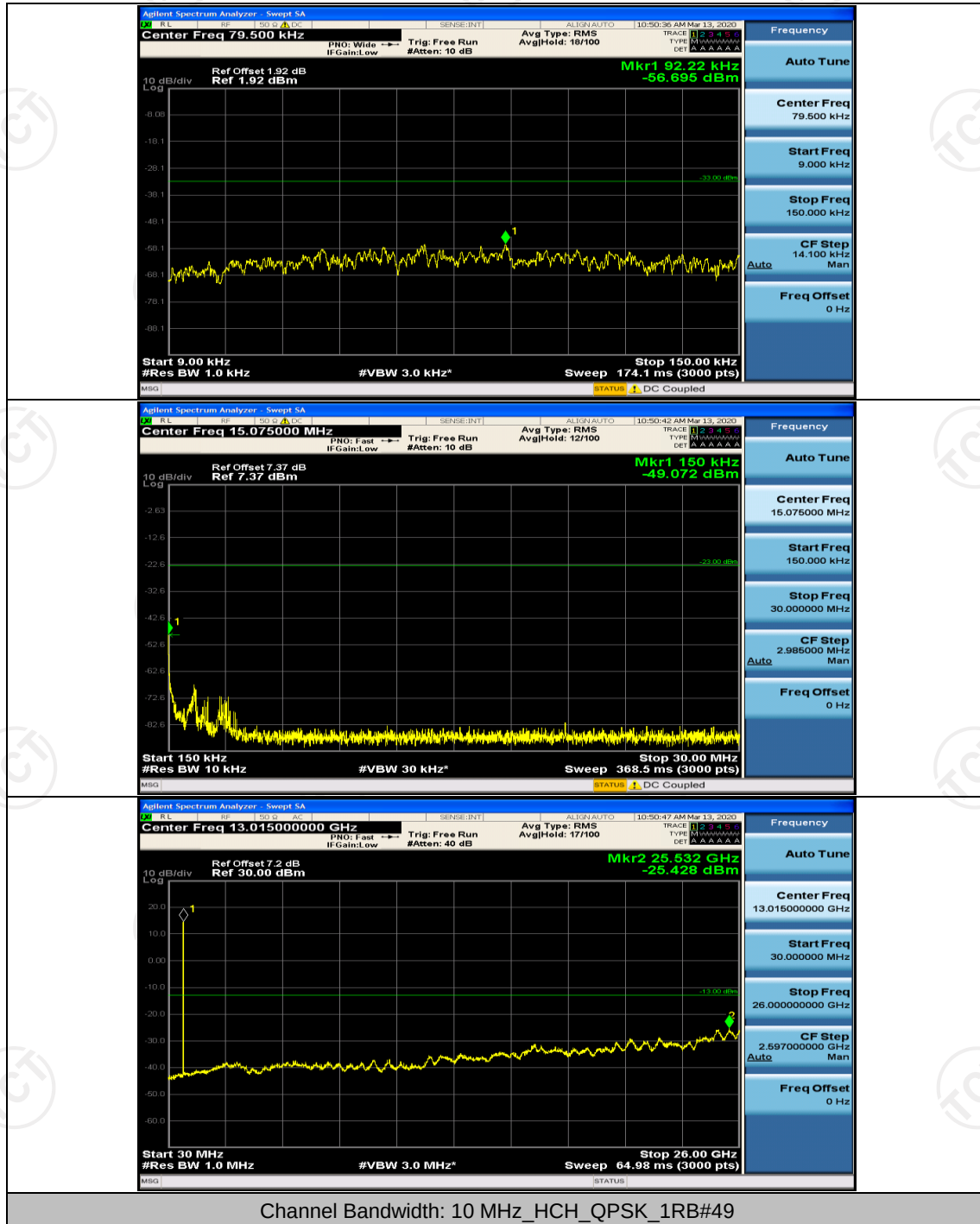


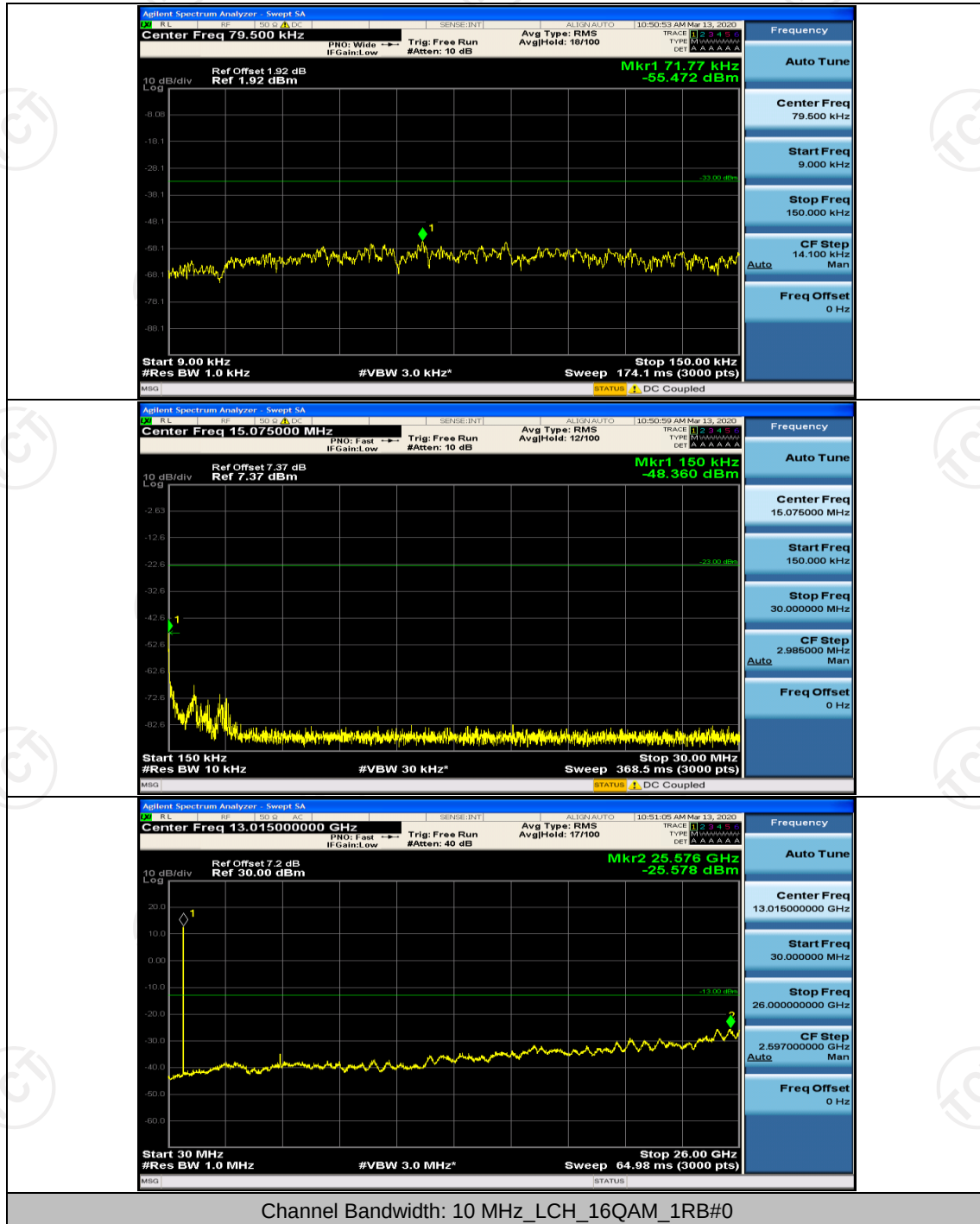


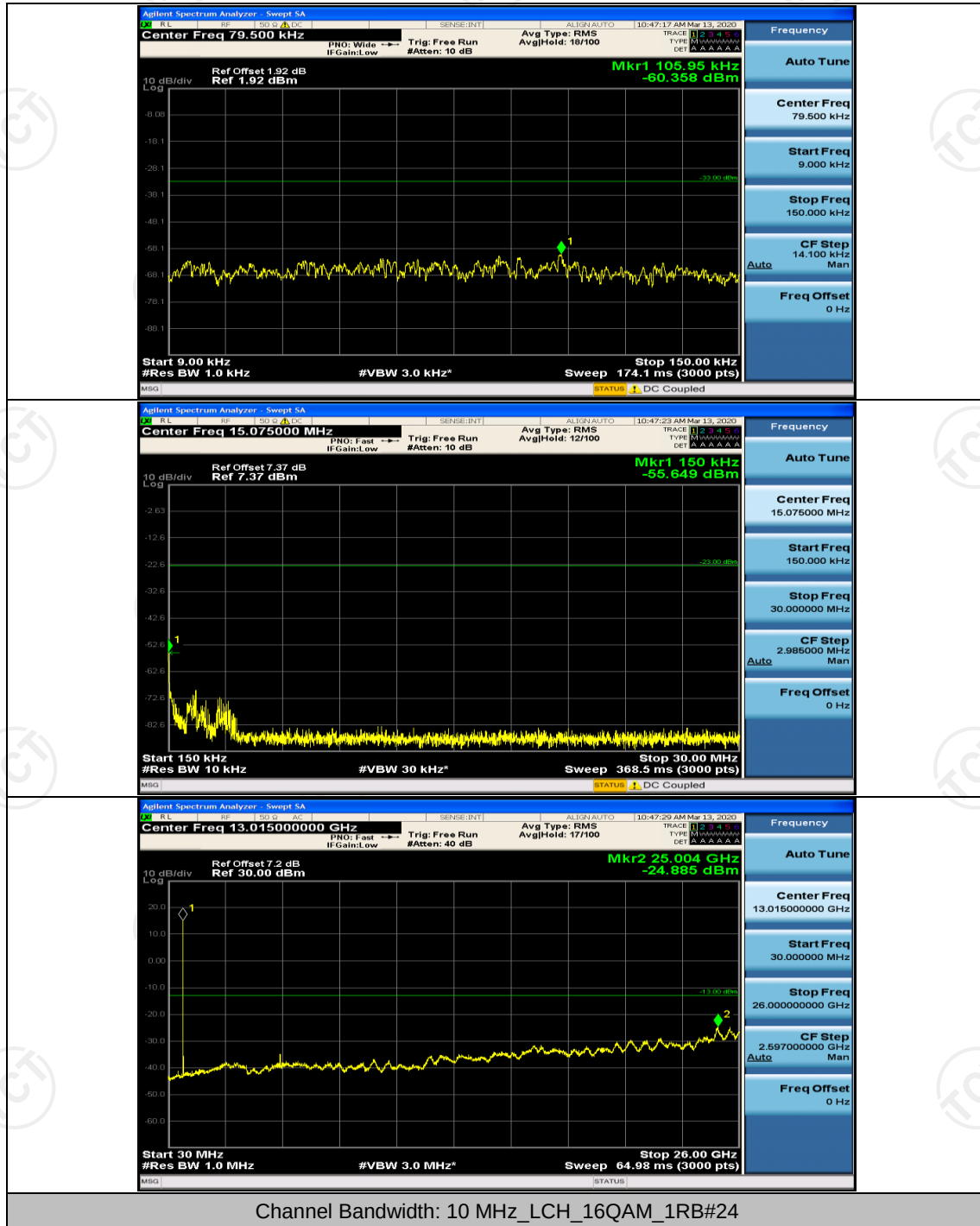


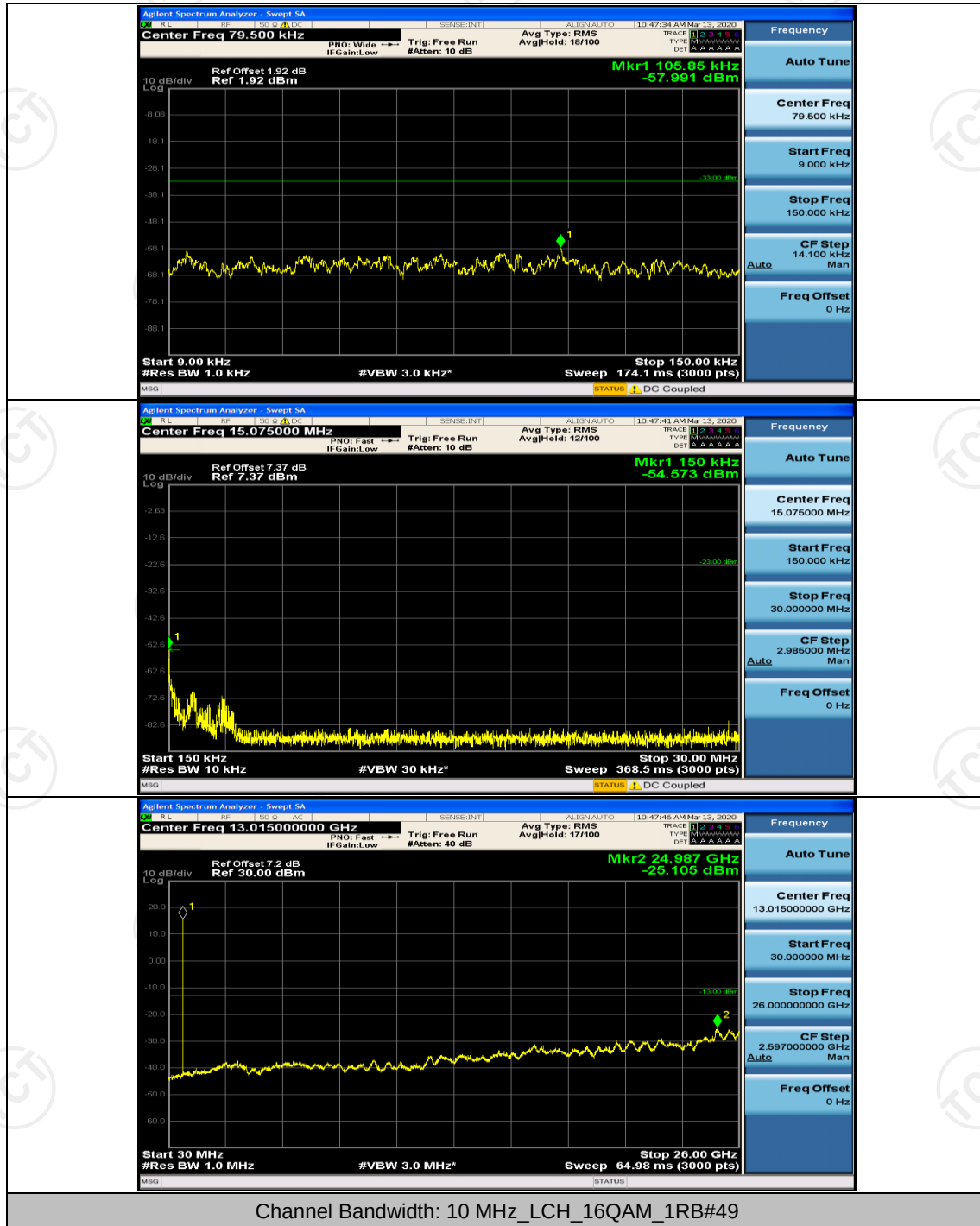


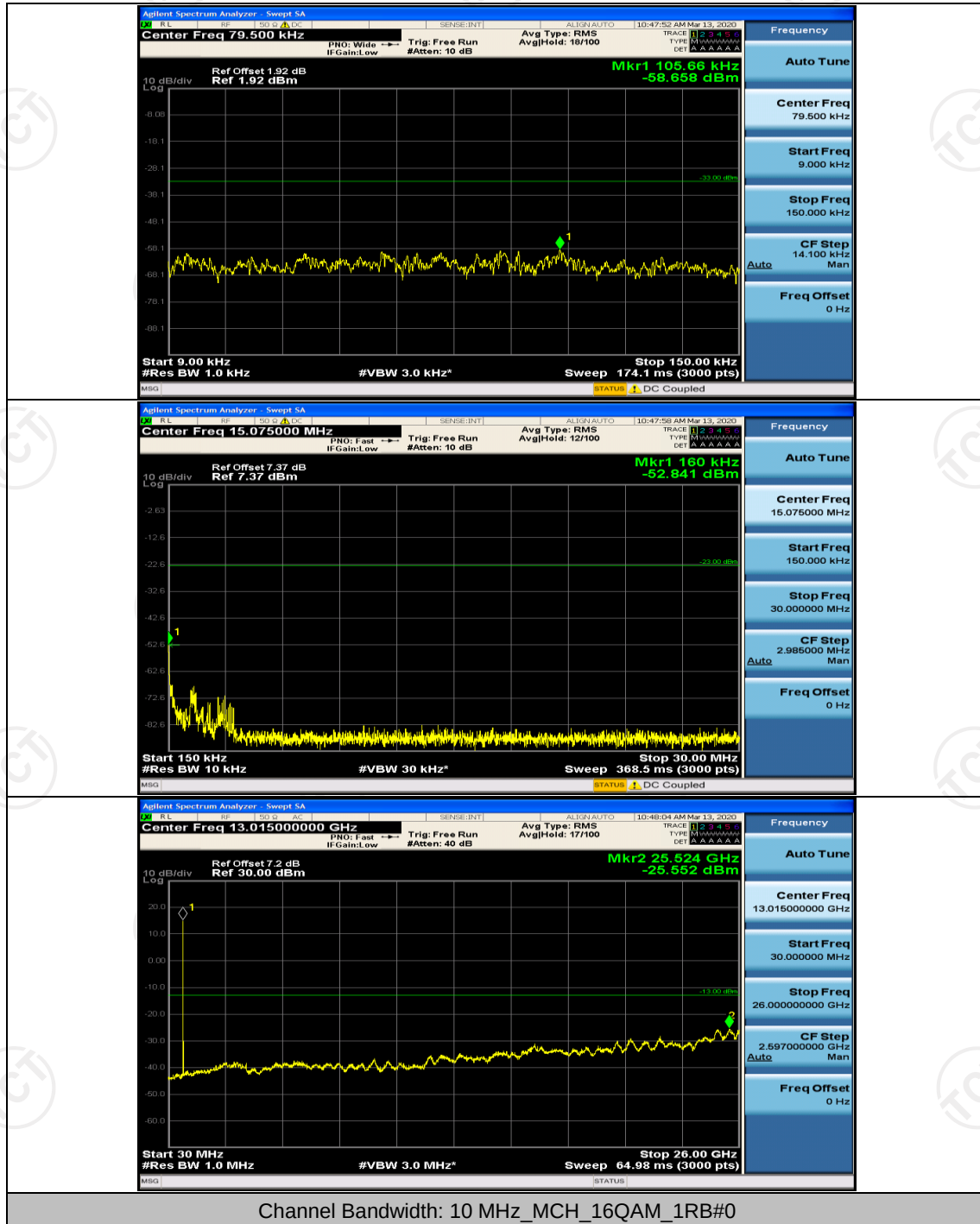


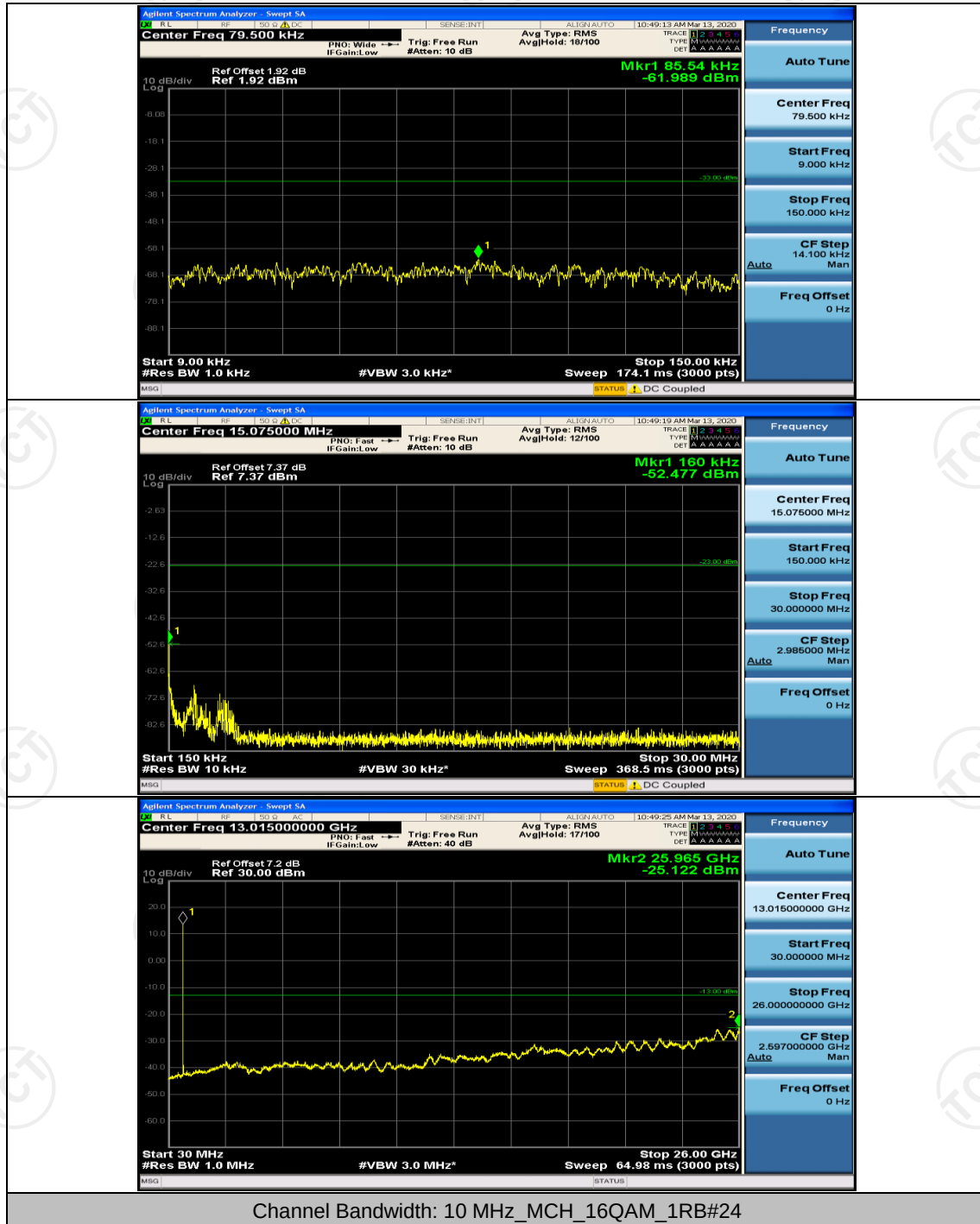


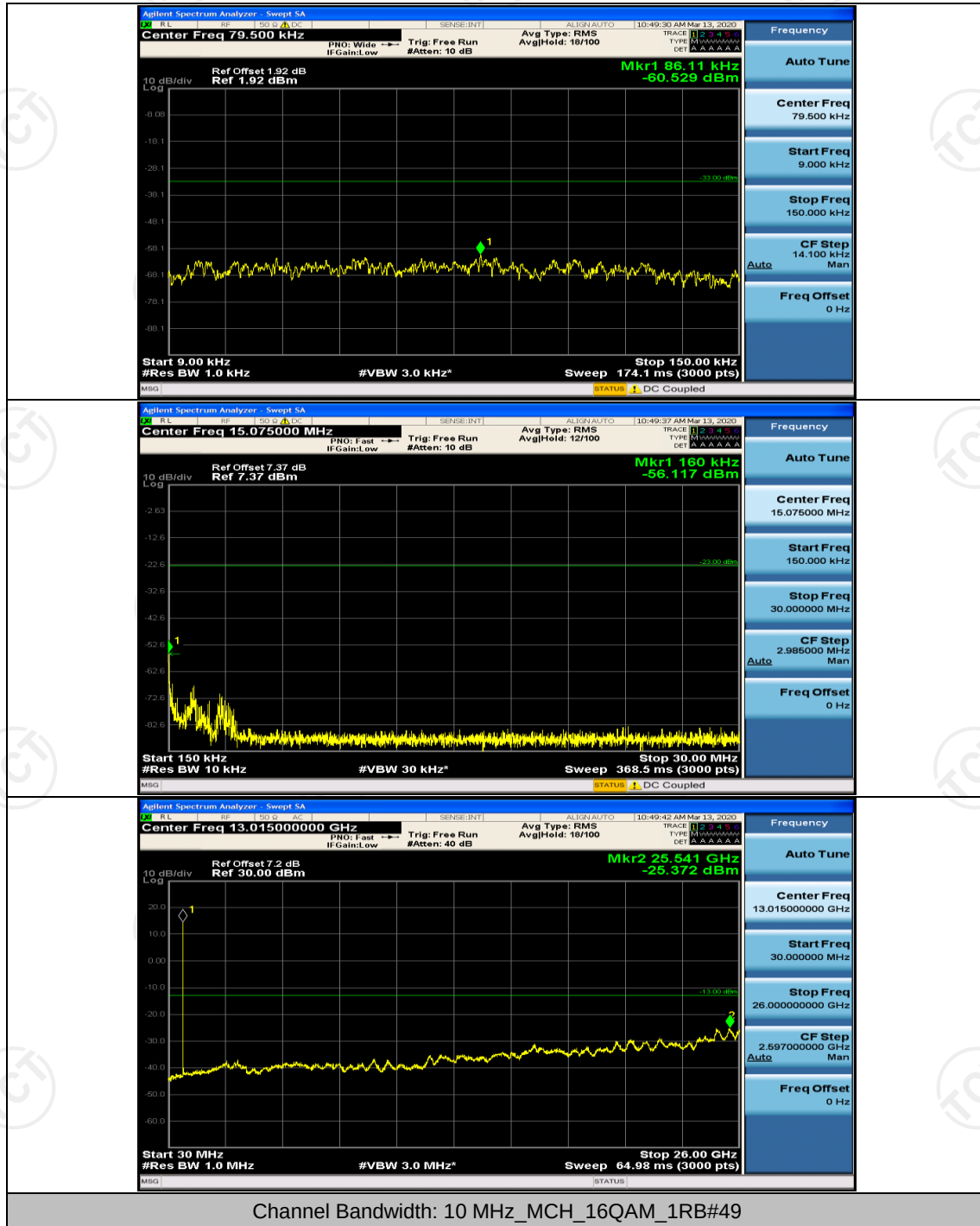


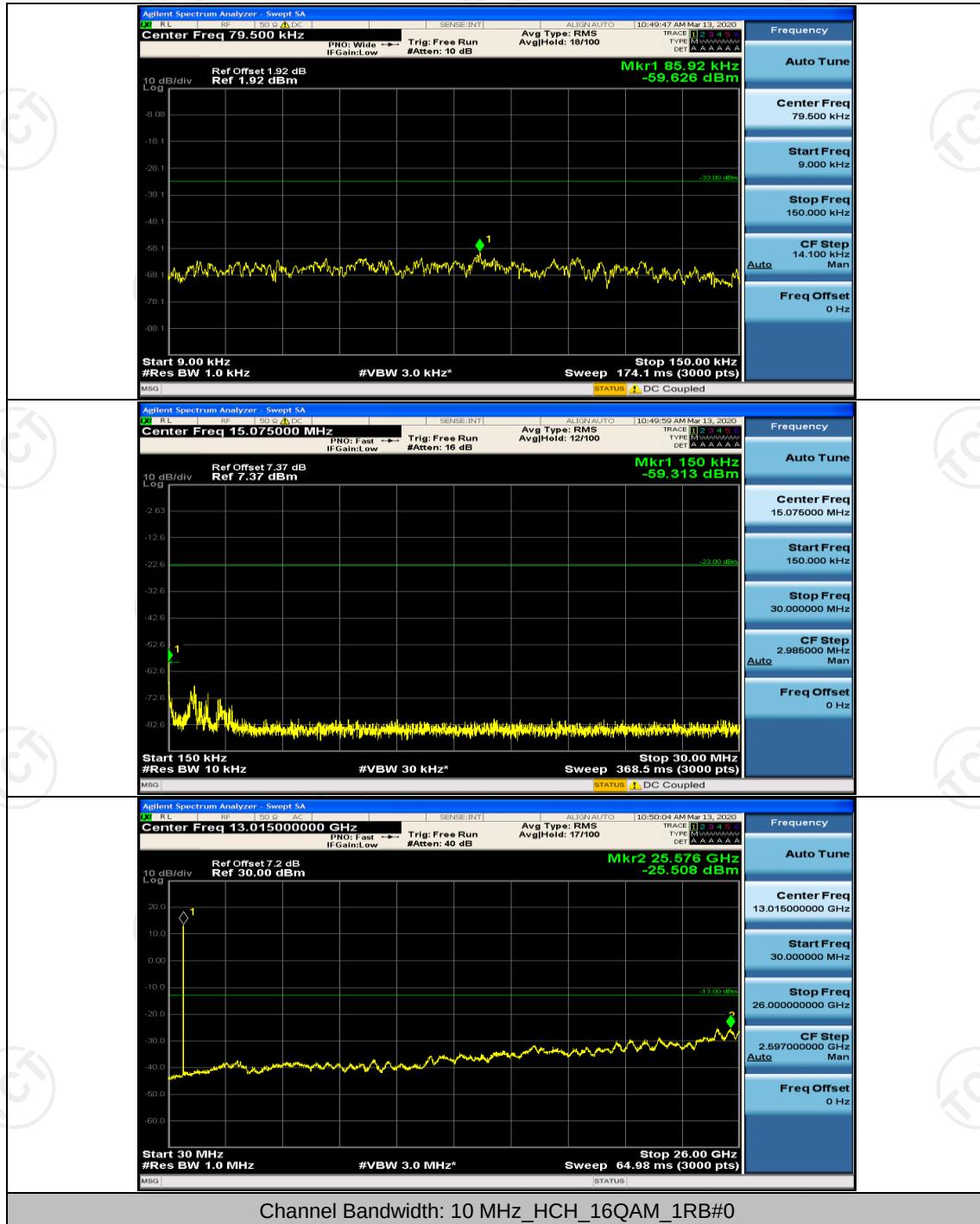


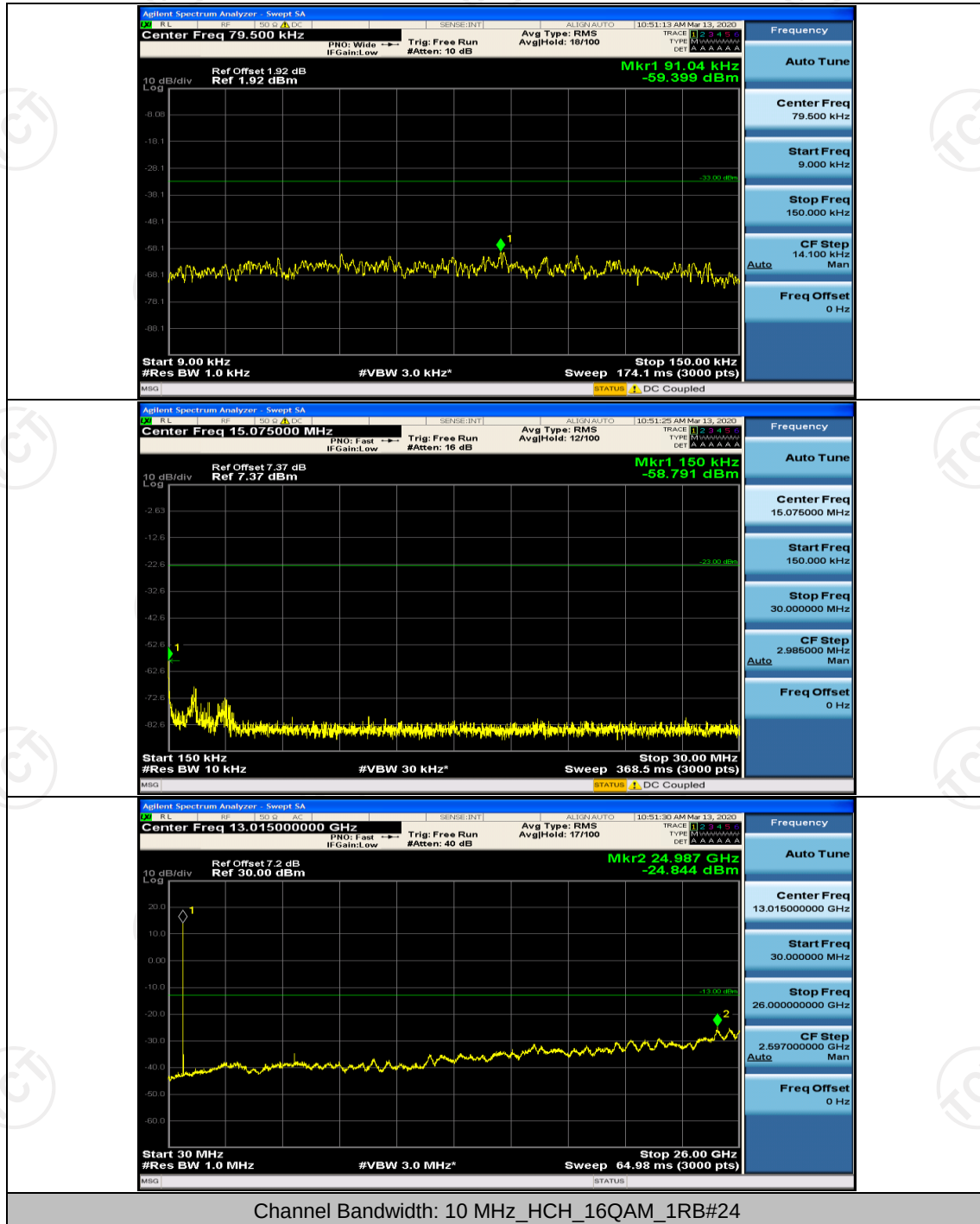


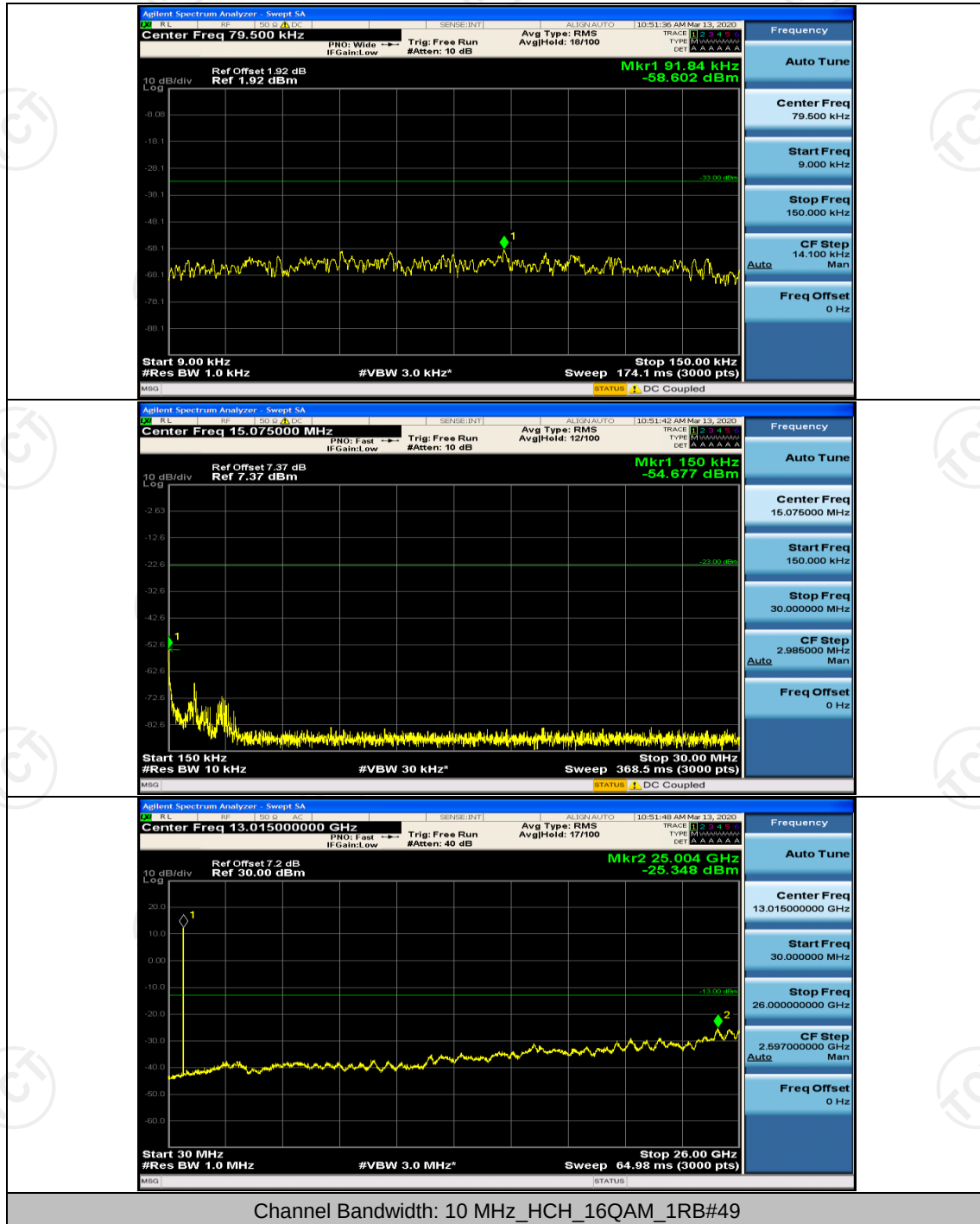


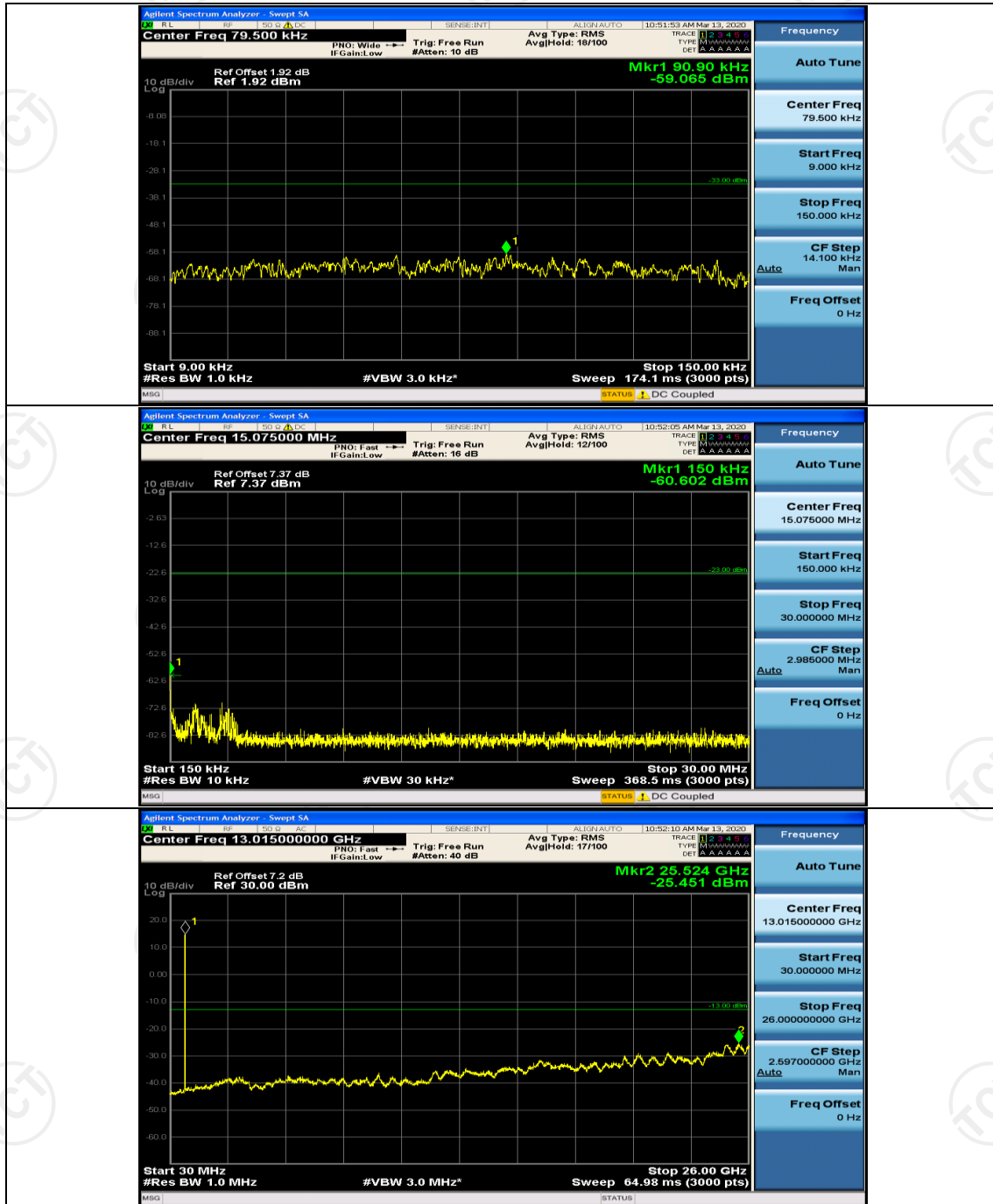












Appendix F: Frequency Stability

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	3.4	25	-4.53	-0.006349	± 2.5	PASS
		3.7	25	-4.36	-0.006236	± 2.5	PASS
		4.2	25	-4.21	-0.006124	± 2.5	PASS
	MCH	3.4	25	-4.05	-0.005709	± 2.5	PASS
		3.7	25	-4.16	-0.005884	± 2.5	PASS
		4.2	25	-4.37	-0.006206	± 2.5	PASS
	HCH	3.4	25	-4.50	-0.006358	± 2.5	PASS
		3.7	25	-6.32	-0.008839	± 2.5	PASS
		4.2	25	-6.44	-0.008941	± 2.5	PASS
16QAM	LCH	3.4	25	-6.59	-0.009032	± 2.5	PASS
		3.7	25	-5.99	-0.008566	± 2.5	PASS
		4.2	25	-5.74	-0.008630	± 2.5	PASS
	MCH	3.4	25	-5.61	-0.008504	± 2.5	PASS
		3.7	25	-6.07	-0.008573	± 2.5	PASS
		4.2	25	-6.31	-0.009010	± 2.5	PASS
	HCH	3.4	25	-6.46	-0.009128	± 2.5	PASS
		3.7	25	-2.42	-0.003380	± 2.5	PASS
		4.2	25	-2.57	-0.003438	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	3.7	-30	-4.53	-0.006125	± 2.5	PASS
		3.7	-20	-4.37	-0.006034	± 2.5	PASS
		3.7	-10	-4.28	-0.005911	± 2.5	PASS
		3.7	0	-4.10	-0.005736	± 2.5	PASS
		3.7	10	-3.99	-0.005604	± 2.5	PASS
		3.7	20	-3.81	-0.005438	± 2.5	PASS
		3.7	30	-7.07	-0.010100	± 2.5	PASS
		3.7	40	-8.50	-0.012144	± 2.5	PASS
		3.7	50	-7.94	-0.011347	± 2.5	PASS
	MCH	3.7	-30	-8.05	-0.011906	± 2.5	PASS
		3.7	-20	-7.80	-0.010159	± 2.5	PASS
		3.7	-10	-7.64	-0.009865	± 2.5	PASS
		3.7	0	-7.51	-0.009730	± 2.5	PASS
		3.7	10	-7.39	-0.009653	± 2.5	PASS

		3.7	20	-2.42	-0.003417	± 2.5	PASS
		3.7	30	-5.74	-0.008108	± 2.5	PASS
		3.7	40	-4.89	-0.006915	± 2.5	PASS
		3.7	50	-5.34	-0.007542	± 2.5	PASS
	HCH	3.7	-30	-5.61	-0.007670	± 2.5	PASS
		3.7	-20	-5.88	-0.007891	± 2.5	PASS
		3.7	-10	-6.01	-0.008073	± 2.5	PASS
		3.7	0	-6.16	-0.008145	± 2.5	PASS
		3.7	10	-6.34	-0.008243	± 2.5	PASS
		3.7	20	-7.27	-0.010159	± 2.5	PASS
		3.7	30	-7.50	-0.010479	± 2.5	PASS
		3.7	40	-9.14	-0.012779	± 2.5	PASS
		3.7	50	-5.28	-0.007380	± 2.5	PASS
		3.7	-30	-5.12	-0.007135	± 2.5	PASS
		3.7	-20	-5.04	-0.007009	± 2.5	PASS
		3.7	-10	-4.96	-0.006956	± 2.5	PASS
		3.7	0	-4.77	-0.006803	± 2.5	PASS
16QAM	LCH	3.7	10	-4.53	-0.006671	± 2.5	PASS
		3.7	20	-4.01	-0.005724	± 2.5	PASS
		3.7	30	-7.10	-0.010141	± 2.5	PASS
		3.7	40	-9.34	-0.013350	± 2.5	PASS
		3.7	50	-4.53	-0.006481	± 2.5	PASS
	MCH	3.7	-30	-4.41	-0.006305	± 2.5	PASS
		3.7	-20	-4.32	-0.006240	± 2.5	PASS
		3.7	-10	-4.16	-0.006081	± 2.5	PASS
		3.7	0	-4.04	-0.005943	± 2.5	PASS
		3.7	10	-3.92	-0.005736	± 2.5	PASS
		3.7	20	-1.86	-0.002629	± 2.5	PASS
		3.7	30	-5.28	-0.007461	± 2.5	PASS
		3.7	40	-3.76	-0.005318	± 2.5	PASS
		3.7	50	-1.47	-0.002083	± 2.5	PASS
	HCH	3.7	-30	-1.63	-0.002246	± 2.5	PASS
		3.7	-20	-1.75	-0.002407	± 2.5	PASS
		3.7	-10	-1.98	-0.002546	± 2.5	PASS
		3.7	0	-2.15	-0.002603	± 2.5	PASS
		3.7	10	-2.34	-0.002815	± 2.5	PASS
		3.7	20	-1.87	-0.002620	± 2.5	PASS
		3.7	30	-7.75	-0.010839	± 2.5	PASS
		3.7	40	-9.34	-0.013059	± 2.5	PASS
		3.7	50	-4.29	-0.006000	± 2.5	PASS