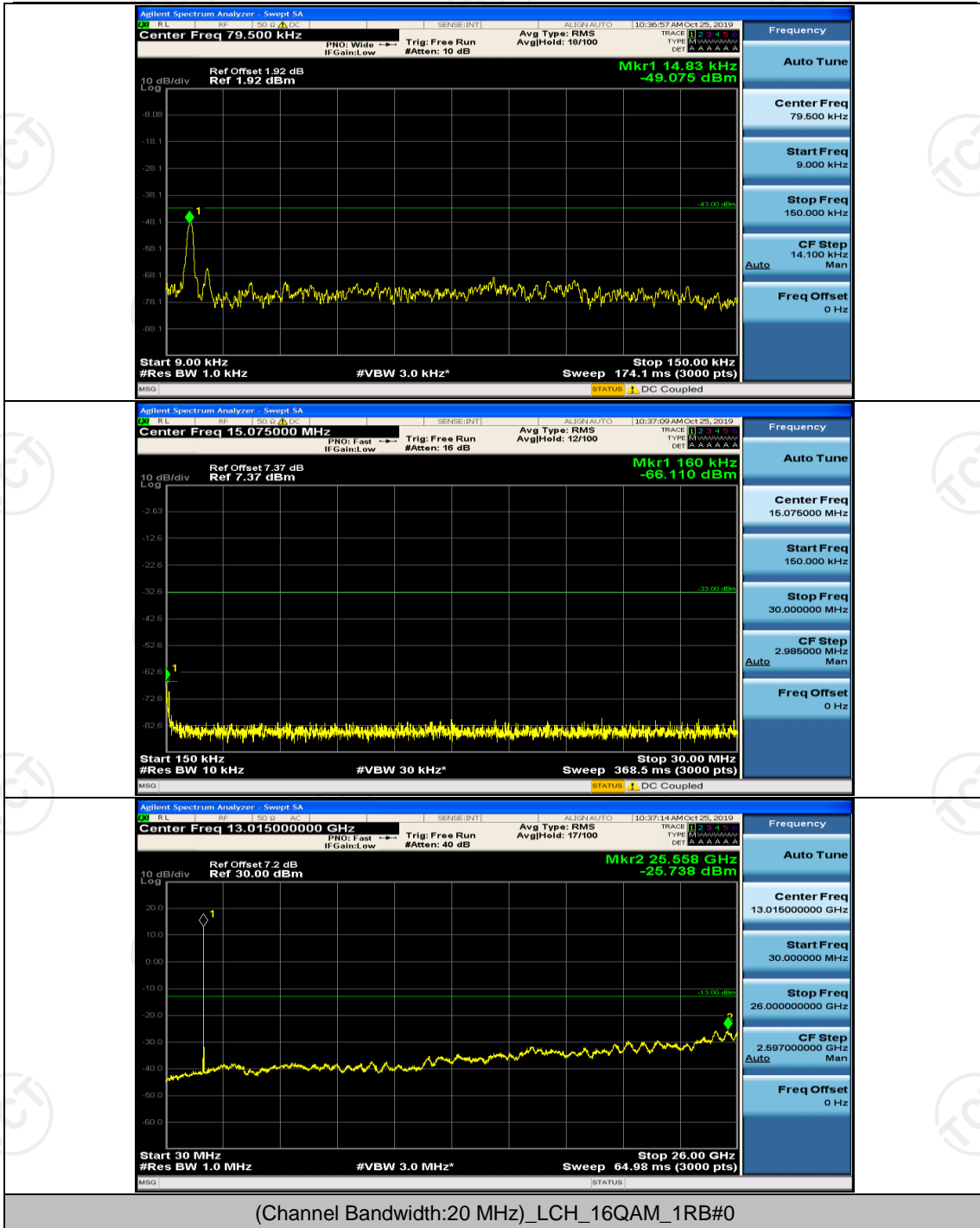
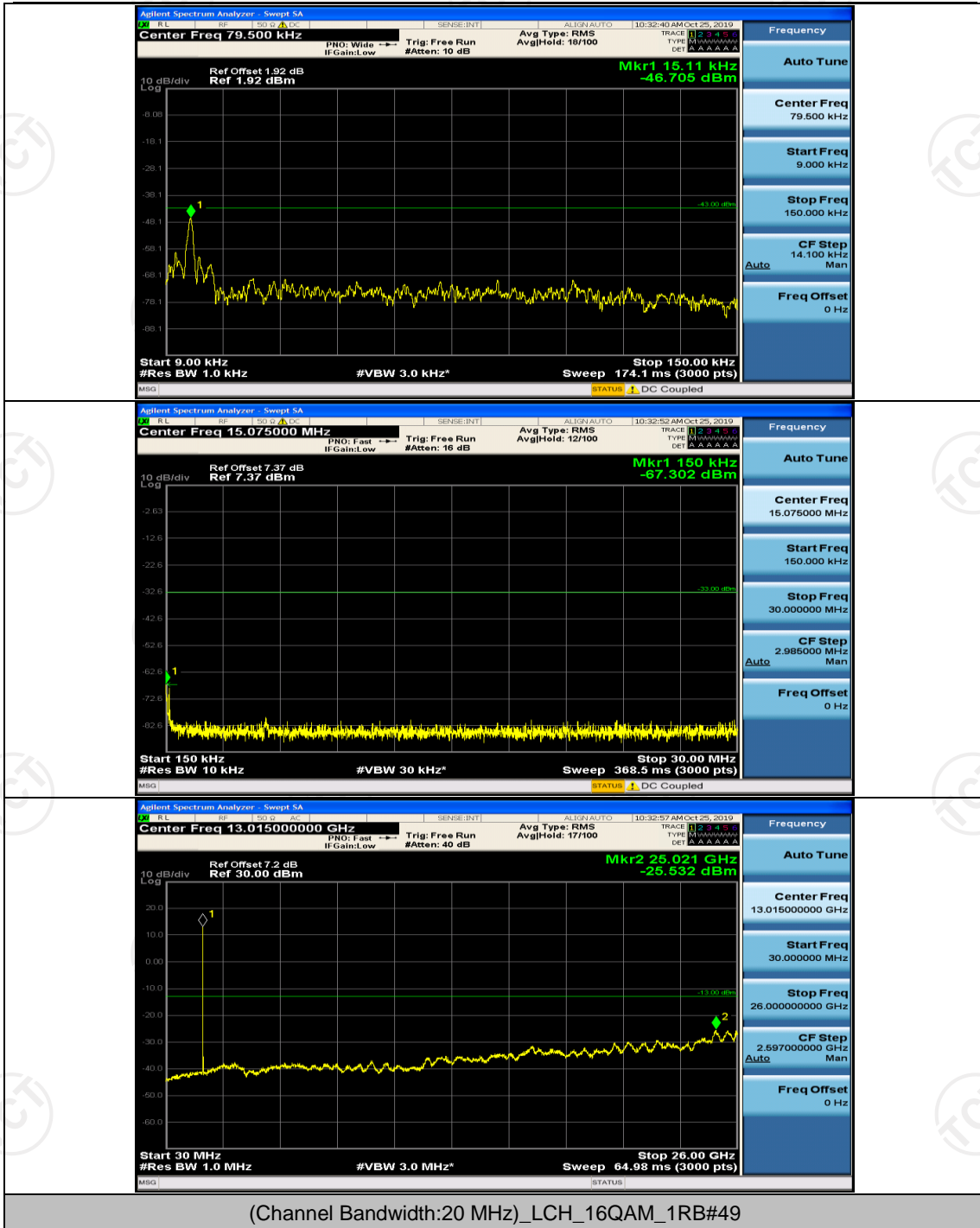
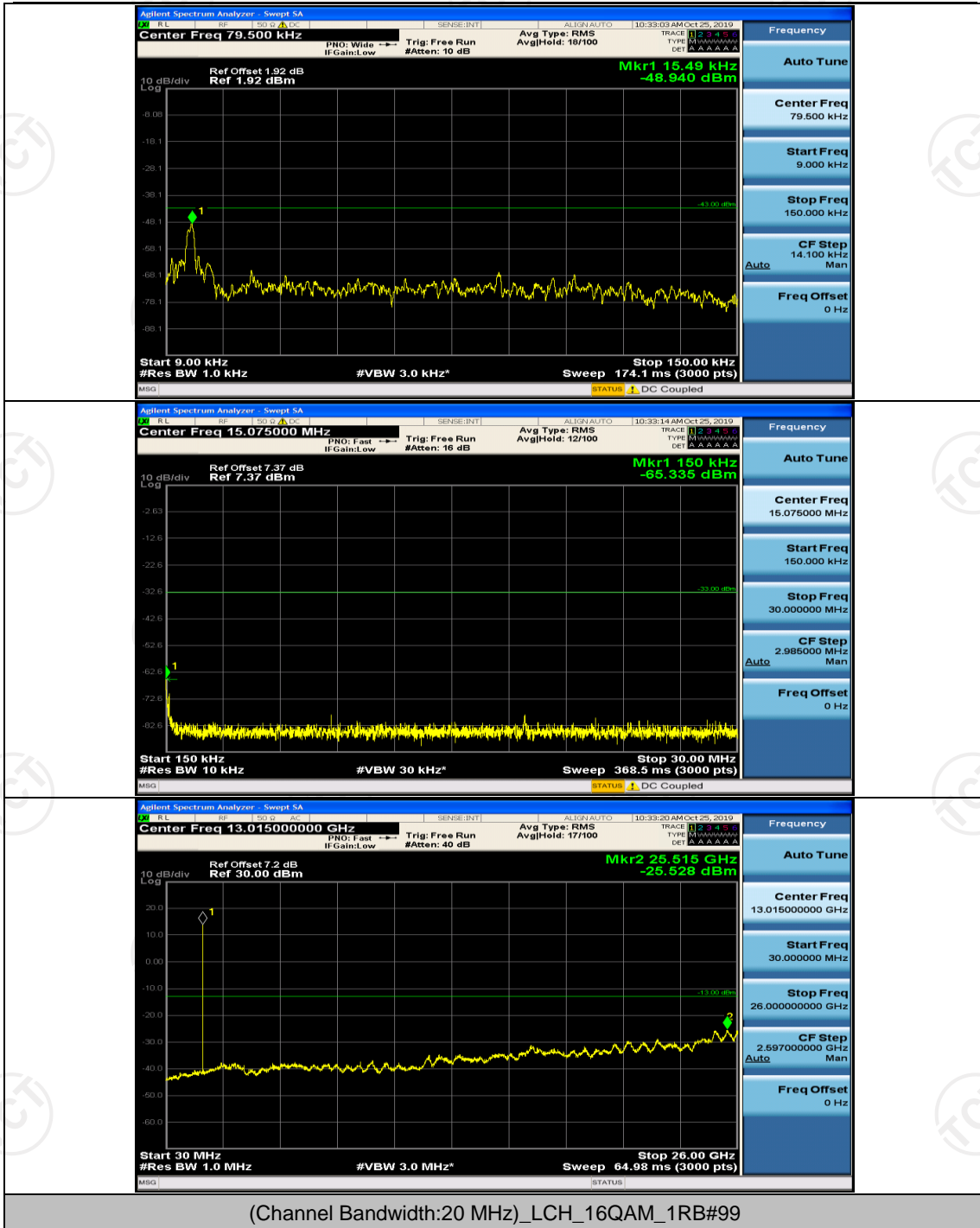
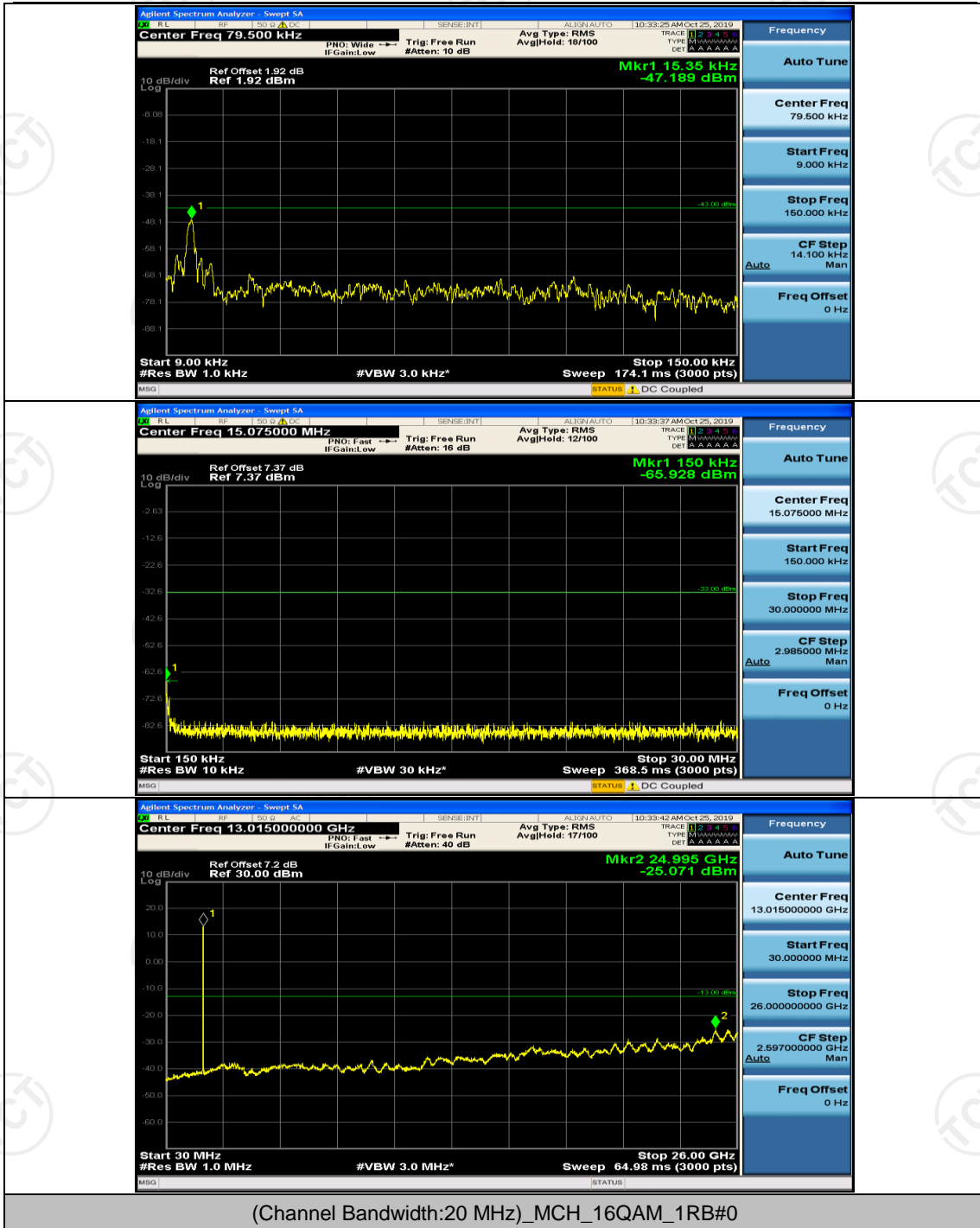


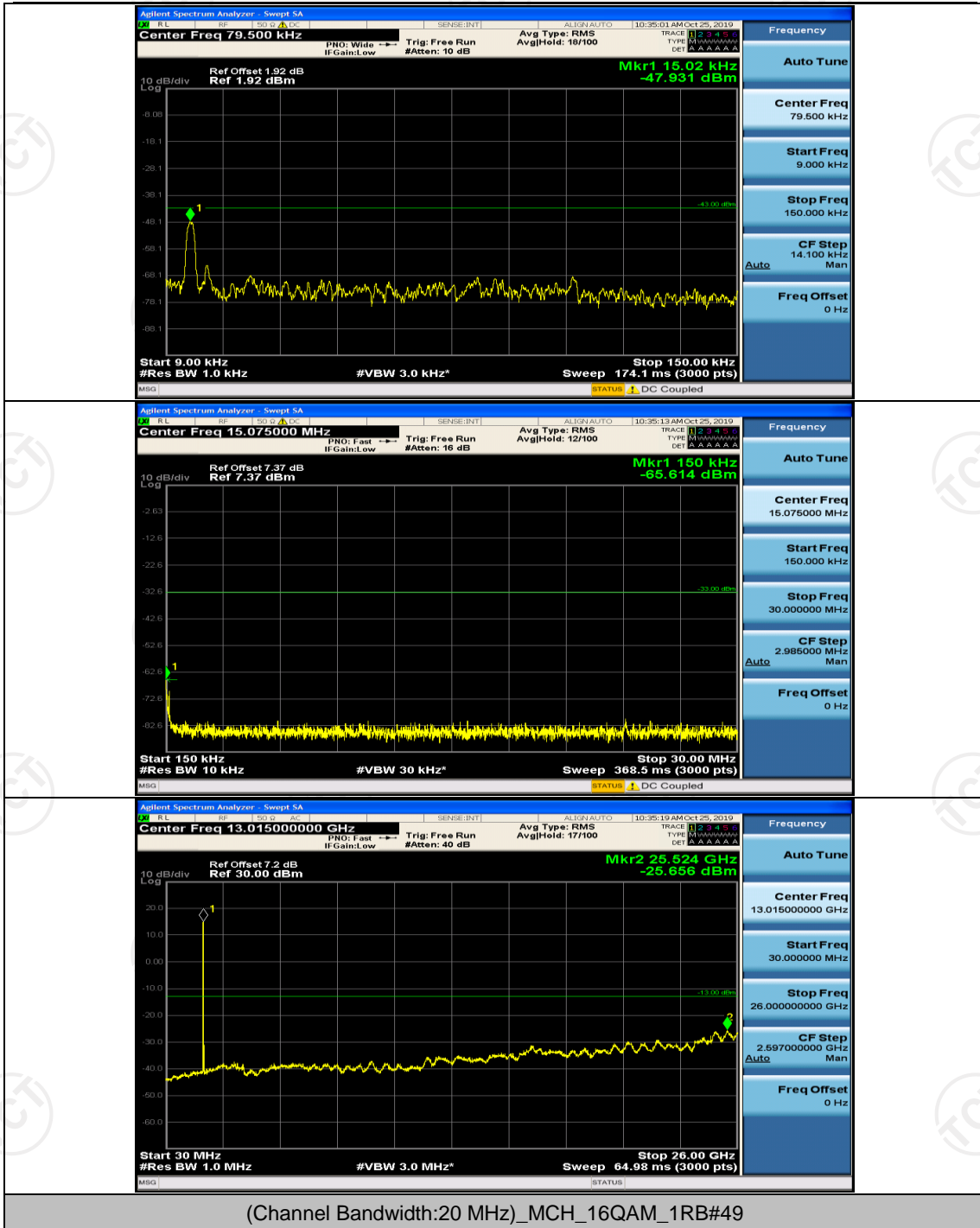
(Channel Bandwidth:20 MHz)_HCH_QPSK_1RB#99

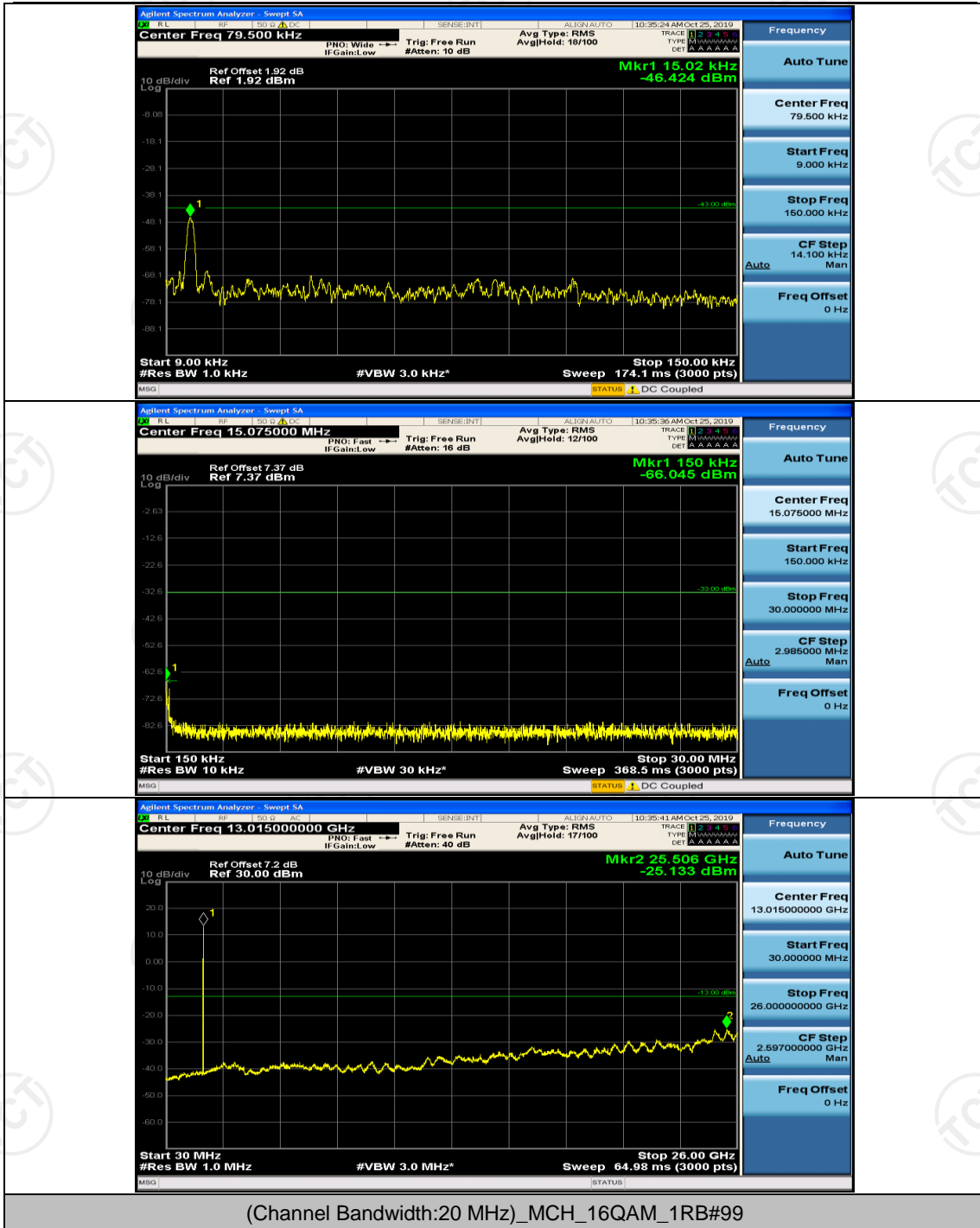


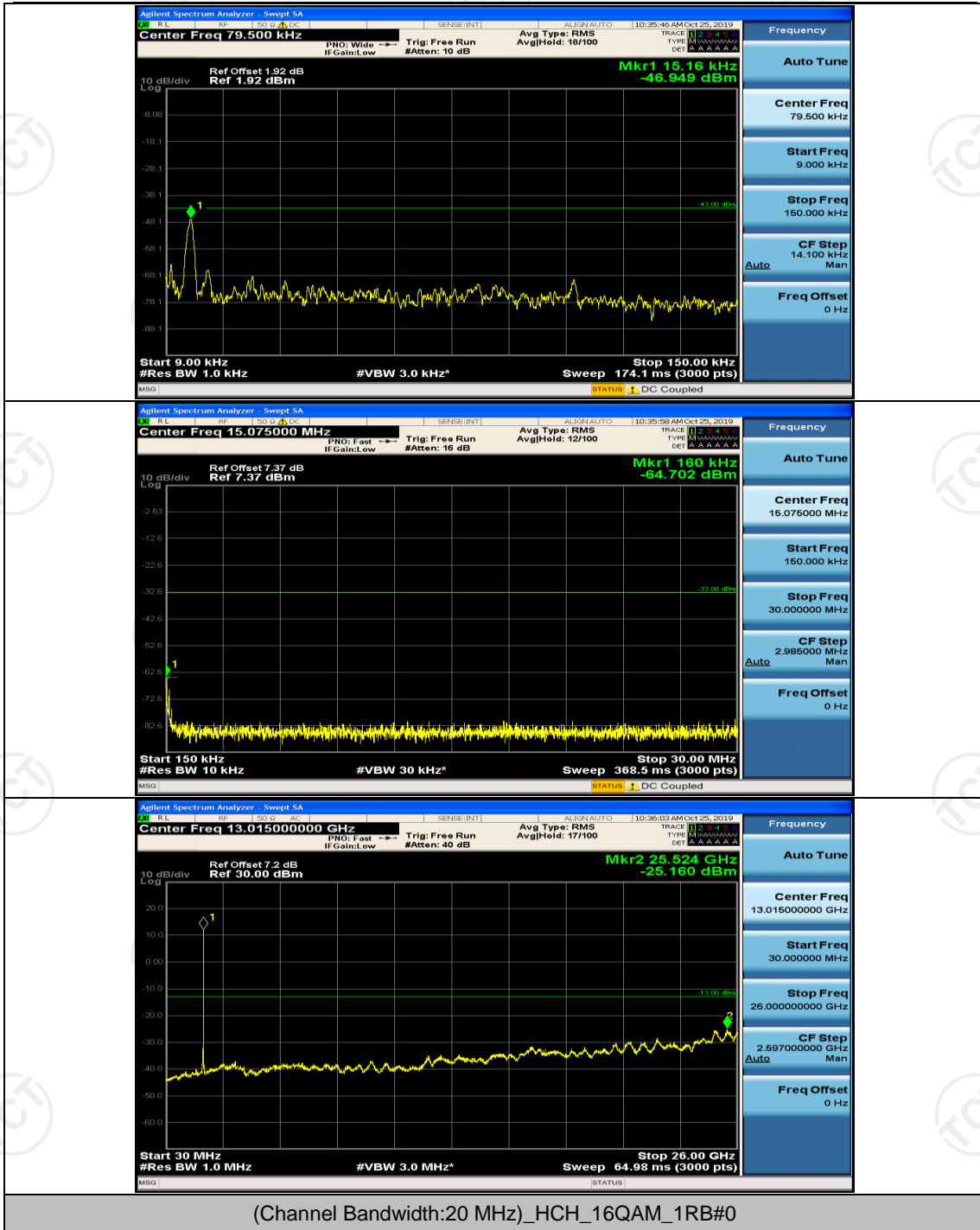


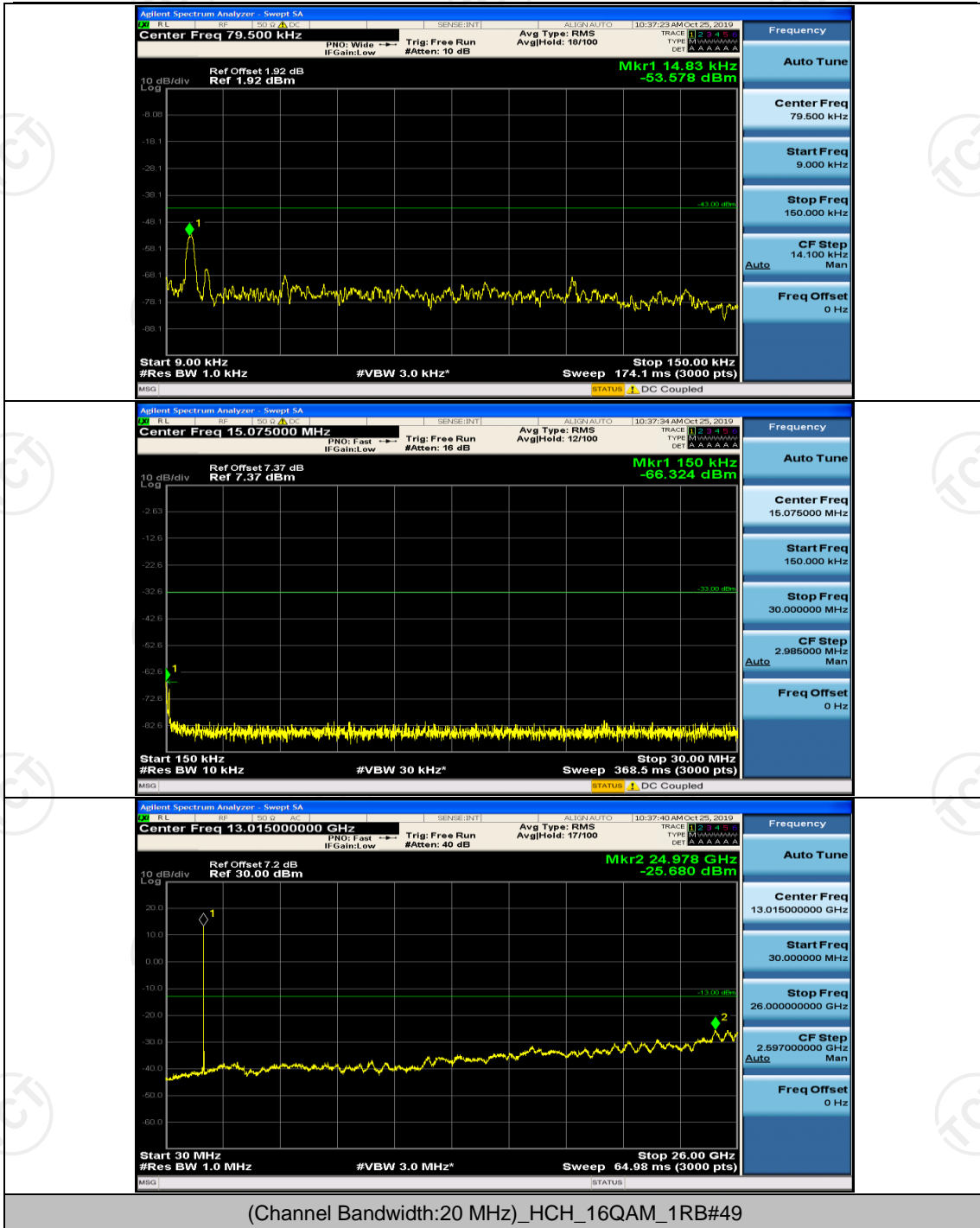


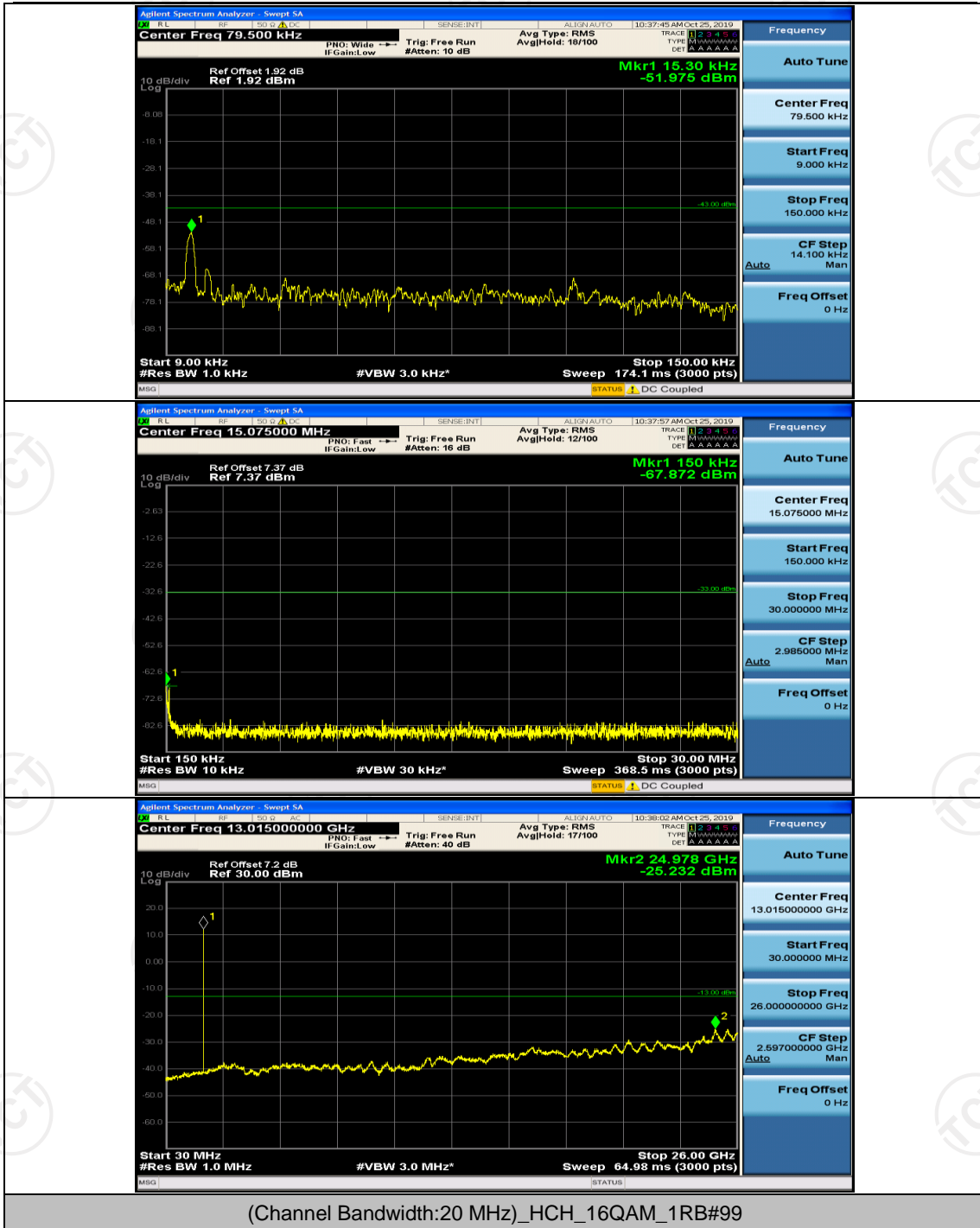


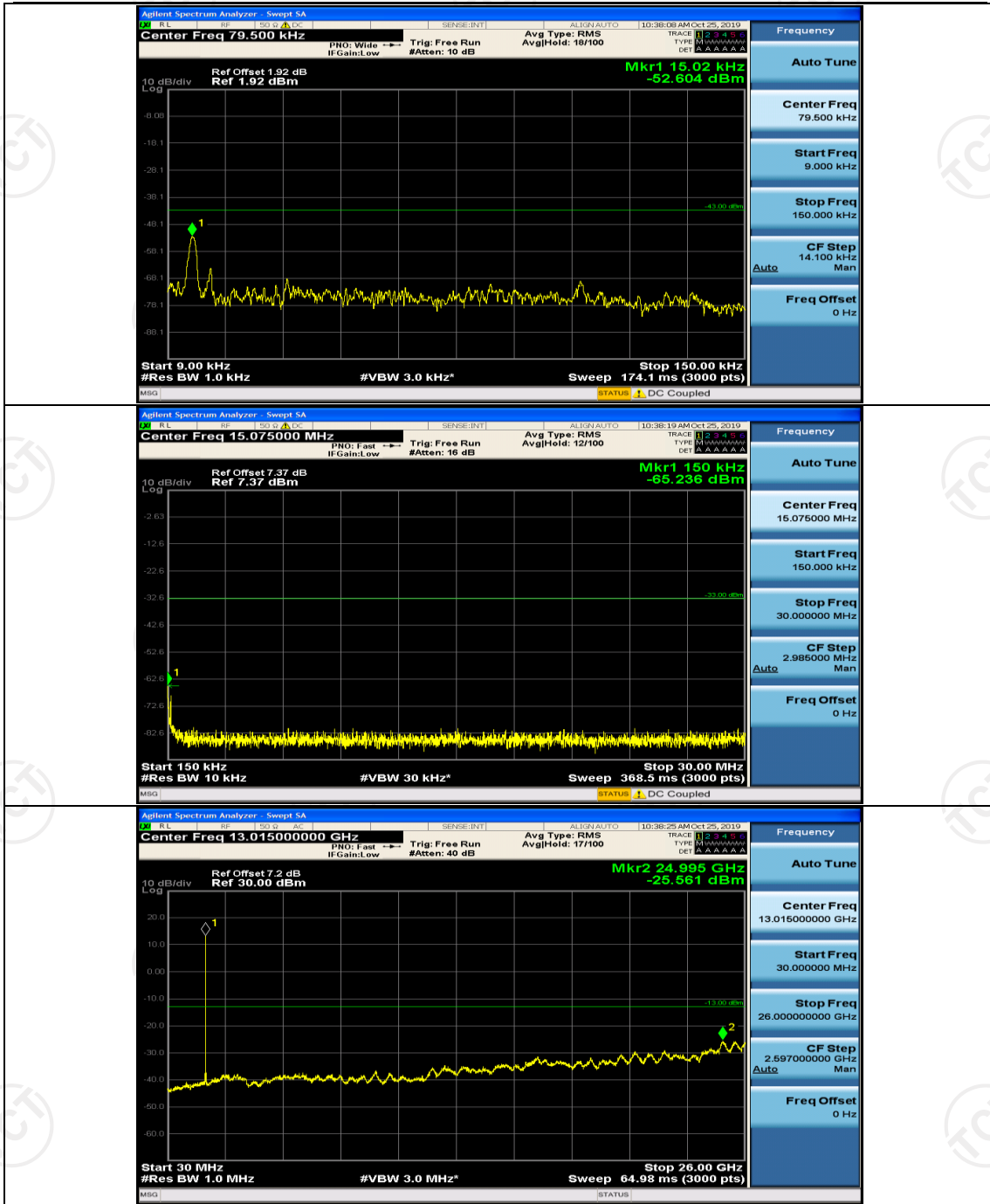












Appendix F: Frequency Stability

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	1.21	0.000754	± 2.5	PASS
		3.7	25	1.32	0.000769	± 2.5	PASS
		4.2	25	1.45	0.000783	± 2.5	PASS
	MCH	3.4	25	1.50	0.000791	± 2.5	PASS
		3.7	25	-6.07	-0.003456	± 2.5	PASS
		4.2	25	-5.86	-0.003218	± 2.5	PASS
	HCH	3.4	25	-5.77	-0.003004	± 2.5	PASS
		3.7	25	-8.64	-0.004856	± 2.5	PASS
		4.2	25	-8.43	-0.004633	± 2.5	PASS
16QAM	LCH	3.4	25	-8.31	-0.004511	± 2.5	PASS
		3.7	25	-5.22	-0.003052	± 2.5	PASS
		4.2	25	-5.07	-0.002864	± 2.5	PASS
	MCH	3.4	25	-4.82	-0.002637	± 2.5	PASS
		3.7	25	-2.62	-0.001492	± 2.5	PASS
		4.2	25	-2.45	-0.001306	± 2.5	PASS
	HCH	3.4	25	-2.33	-0.001214	± 2.5	PASS
		3.7	25	-6.64	-0.003730	± 2.5	PASS
		4.2	25	-6.38	-0.003543	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	3.7	-30	-6.95	-0.004069	± 2.5	PASS
		3.7	-20	-6.72	-0.003819	± 2.5	PASS
		3.7	-10	-6.88	-0.003907	± 2.5	PASS
		3.7	0	-7.21	-0.004246	± 2.5	PASS
		3.7	10	-7.05	-0.004155	± 2.5	PASS
		3.7	20	-6.97	-0.004072	± 2.5	PASS
		3.7	30	0.44	0.000259	± 2.5	PASS
		3.7	40	-2.85	-0.001664	± 2.5	PASS
		3.7	50	-3.13	-0.001831	± 2.5	PASS
	MCH	3.7	-30	-2.94	-0.001683	± 2.5	PASS
		3.7	-20	-2.76	-0.001423	± 2.5	PASS
		3.7	-10	-2.58	-0.001357	± 2.5	PASS
		3.7	0	-2.39	-0.001149	± 2.5	PASS
		3.7	10	-2.04	-0.000997	± 2.5	PASS

		3.7	20	-4.62	-0.002633	± 2.5	PASS
		3.7	30	-3.55	-0.002021	± 2.5	PASS
		3.7	40	-1.72	-0.000901	± 2.5	PASS
		3.7	50	-14.08	-0.008021	± 2.5	PASS
	HCH	3.7	-30	-13.75	-0.007759	± 2.5	PASS
		3.7	-20	-13.32	-0.007541	± 2.5	PASS
		3.7	-10	-12.57	-0.006853	± 2.5	PASS
		3.7	0	-12.42	-0.006721	± 2.5	PASS
		3.7	10	-11.37	-0.005974	± 2.5	PASS
		3.7	20	4.28	0.002404	± 2.5	PASS
		3.7	30	-5.84	-0.003280	± 2.5	PASS
		3.7	40	-3.50	-0.001970	± 2.5	PASS
		3.7	50	-3.62	-0.002034	± 2.5	PASS
		16QAM	LCH	3.7	-30	-3.51	-0.001928
3.7	-20			-3.40	-0.001810	± 2.5	PASS
3.7	-10			-3.23	-0.001724	± 2.5	PASS
3.7	0			-3.10	-0.001633	± 2.5	PASS
3.7	10			-2.98	-0.001411	± 2.5	PASS
3.7	20			-3.45	-0.002015	± 2.5	PASS
3.7	30			-7.47	-0.004365	± 2.5	PASS
3.7	40			-7.68	-0.004490	± 2.5	PASS
MCH	3.7		50	-3.98	-0.002325	± 2.5	PASS
	3.7		-30	-3.74	0.002146	± 2.5	PASS
	3.7		-20	-3.46	-0.001973	± 2.5	PASS
	3.7		-10	-3.31	-0.001850	± 2.5	PASS
	3.7		0	-3.11	-0.001635	± 2.5	PASS
	3.7		10	-2.85	-0.001468	± 2.5	PASS
	3.7		20	-11.03	-0.006284	± 2.5	PASS
	3.7		30	1.07	0.000611	± 2.5	PASS
HCH	3.7		40	-0.46	-0.000261	± 2.5	PASS
	3.7		50	-3.29	-0.001875	± 2.5	PASS
	3.7		-30	-3.14	-0.001739	± 2.5	PASS
	3.7		-20	-3.07	-0.001584	± 2.5	PASS
	3.7		-10	-2.93	-0.001531	± 2.5	PASS
	3.7		0	-2.77	-0.001306	± 2.5	PASS
	3.7		10	-2.52	-0.001259	± 2.5	PASS
	3.7		20	-7.04	-0.003956	± 2.5	PASS
	3.7		30	-6.05	-0.003401	± 2.5	PASS
	3.7		40	-6.45	-0.003626	± 2.5	PASS
	3.7		50	-6.85	-0.003851	± 2.5	PASS