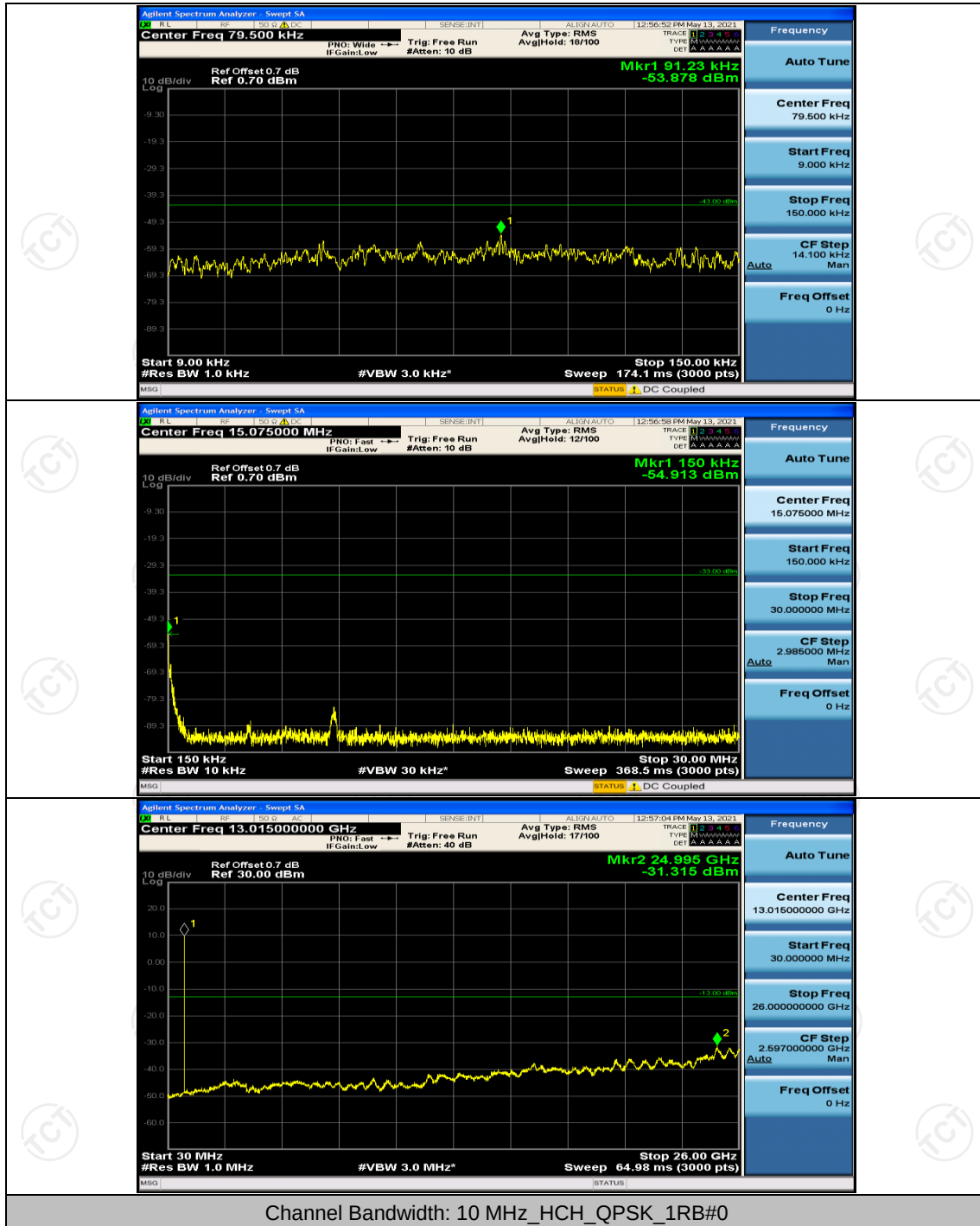
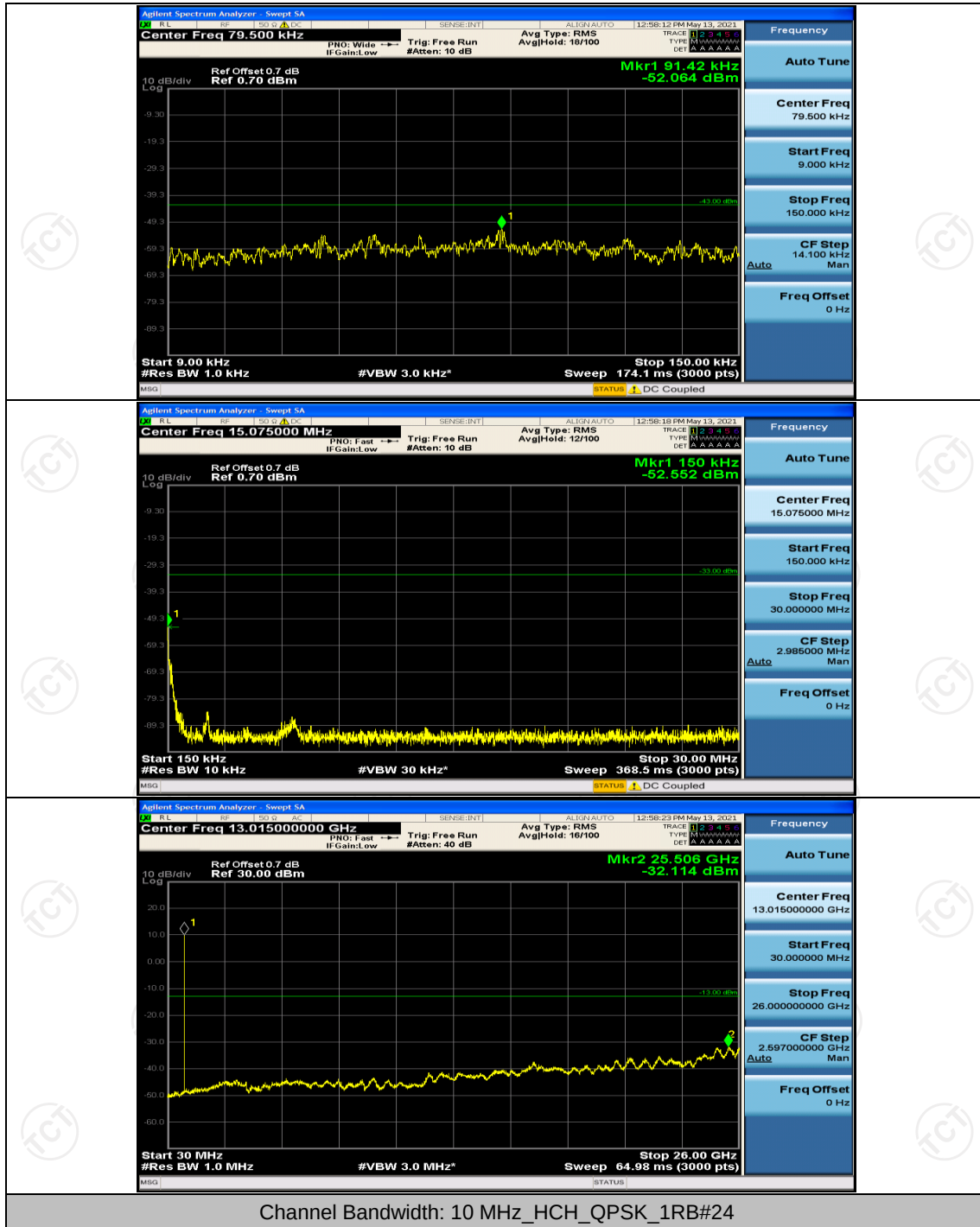
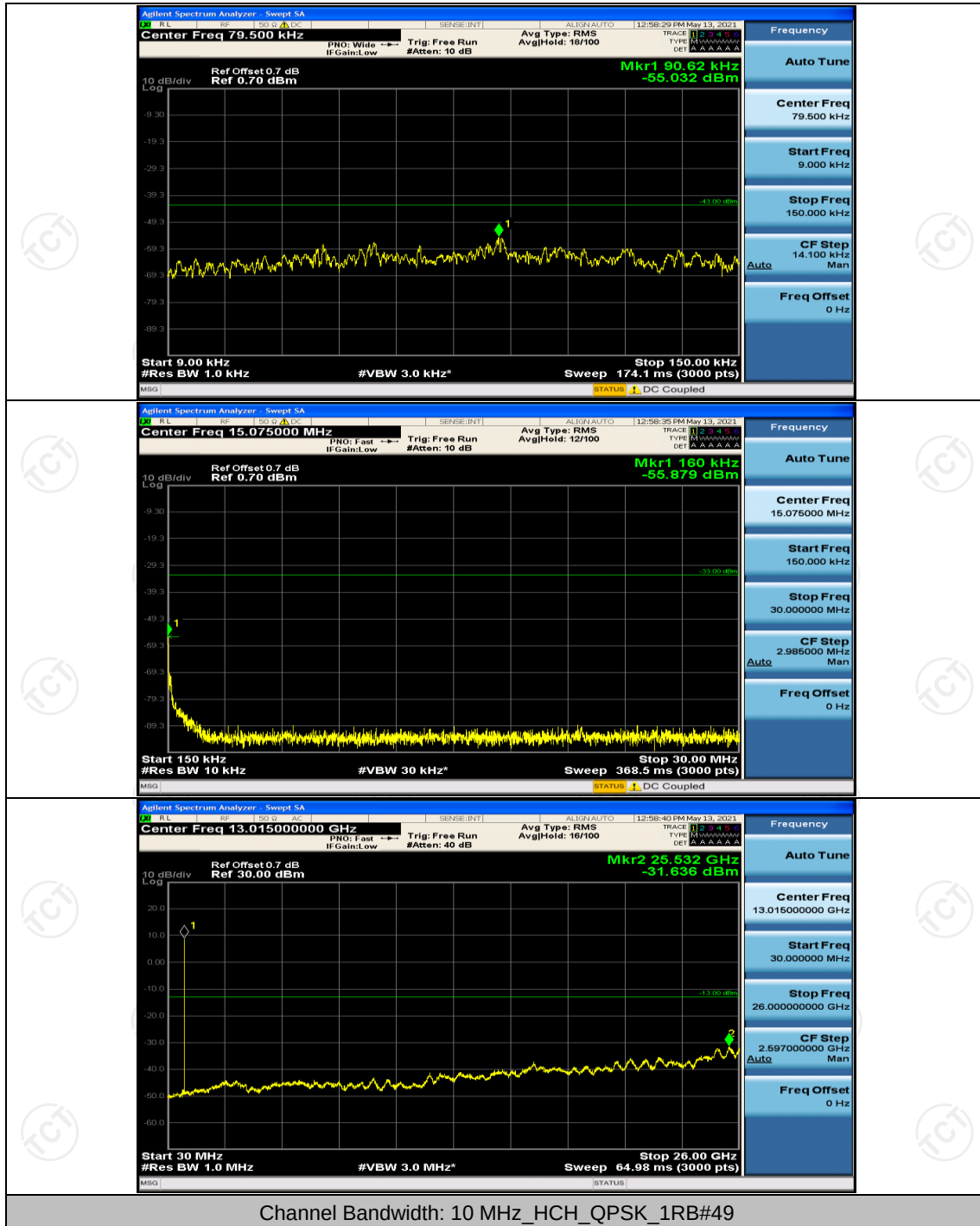
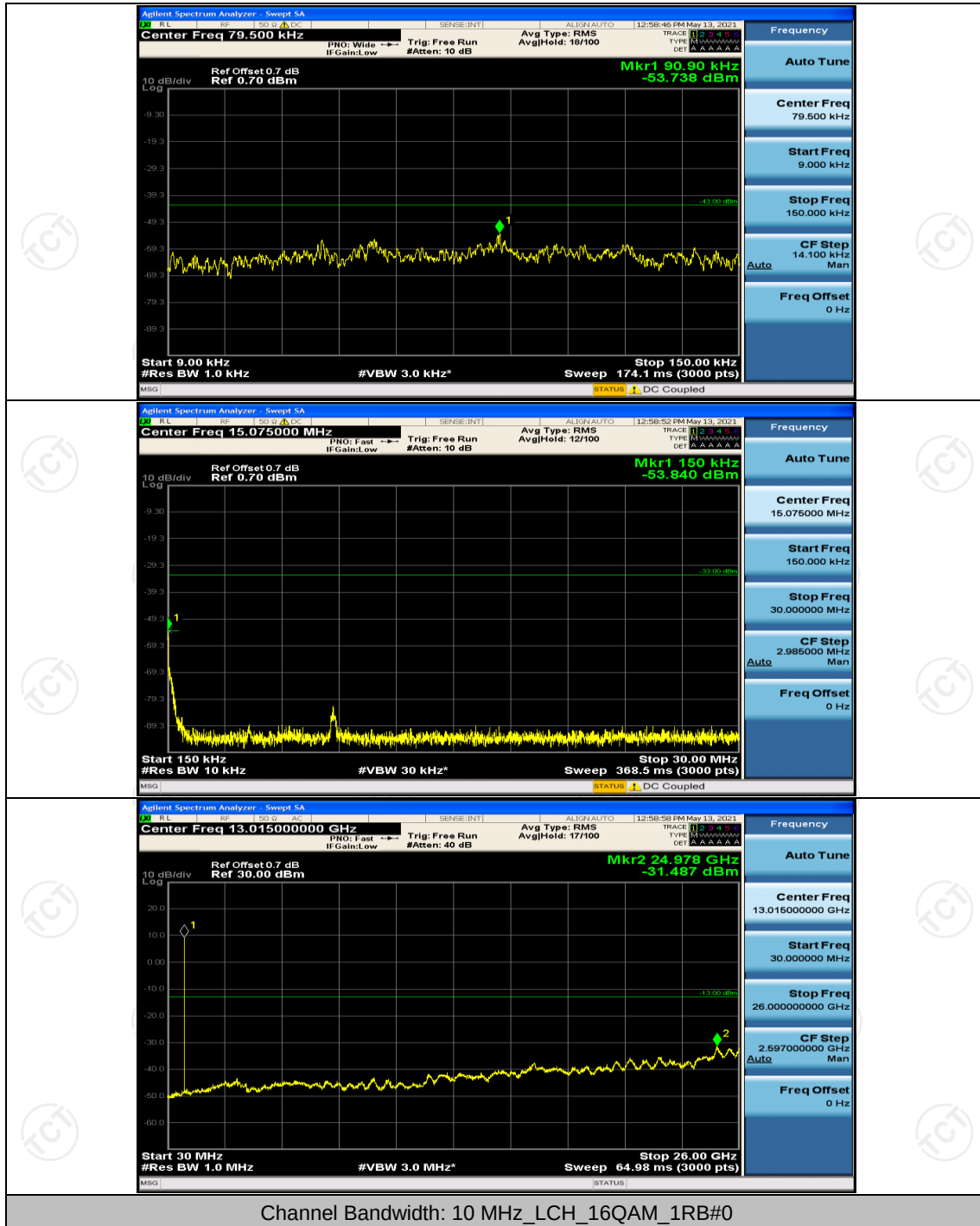
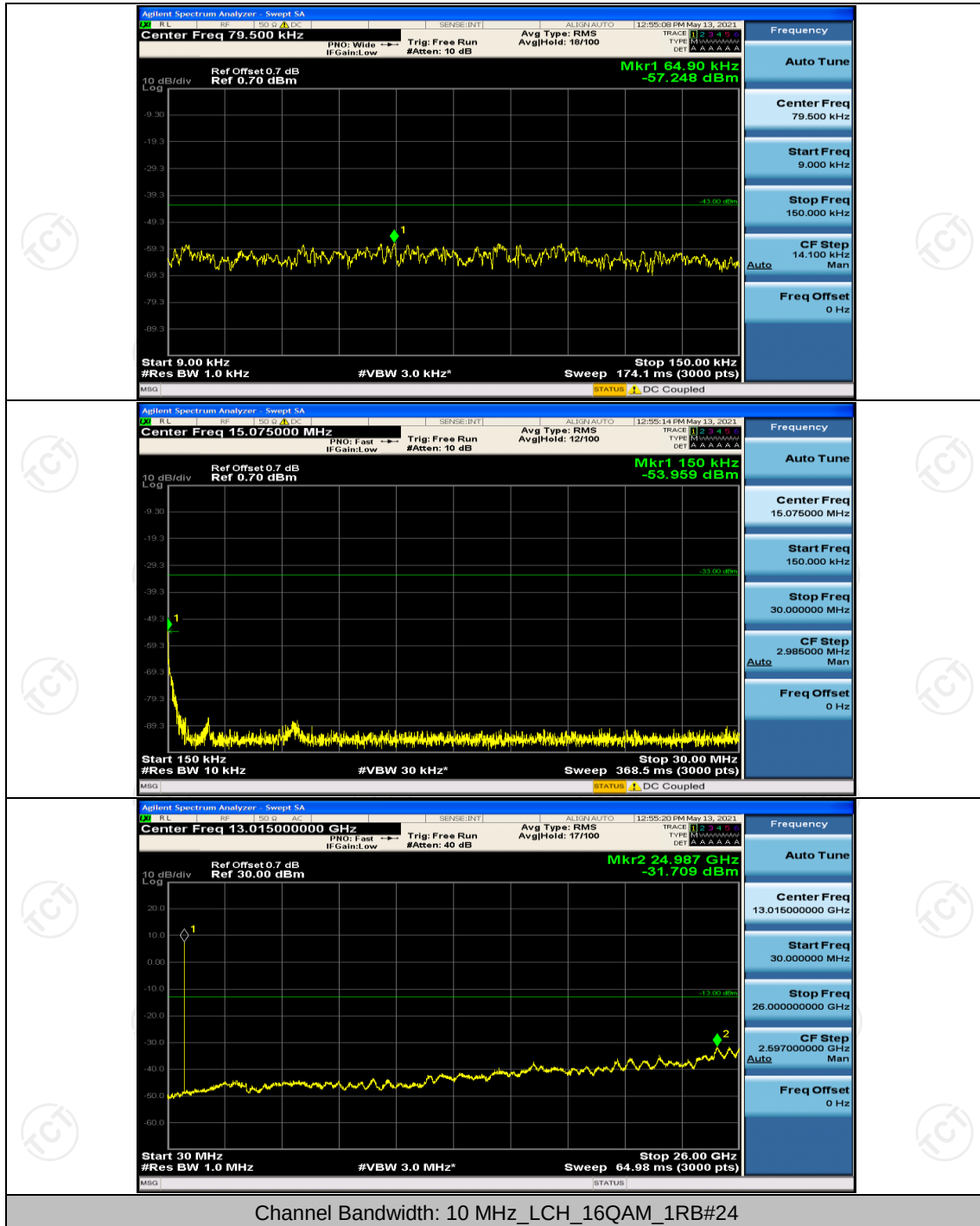


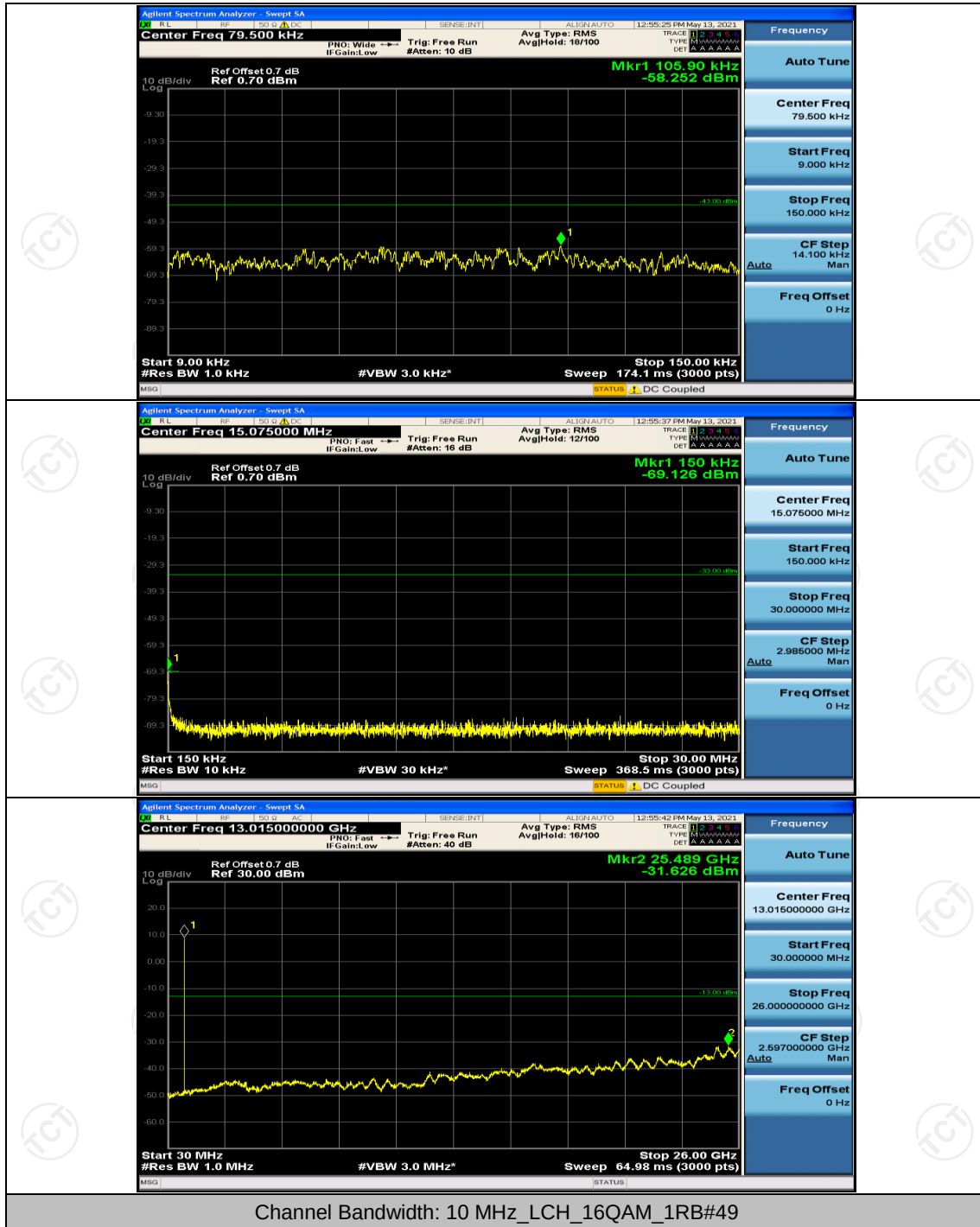


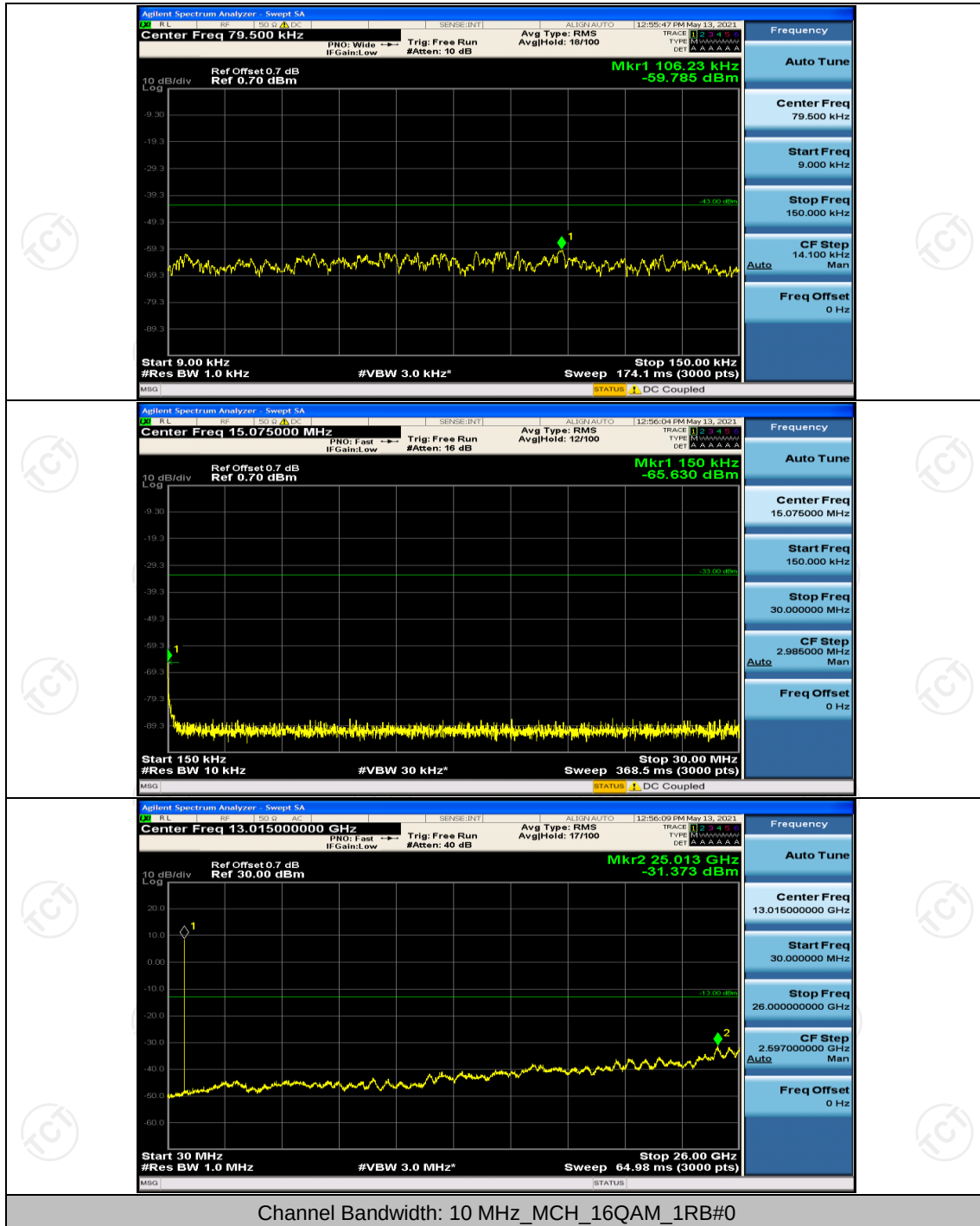


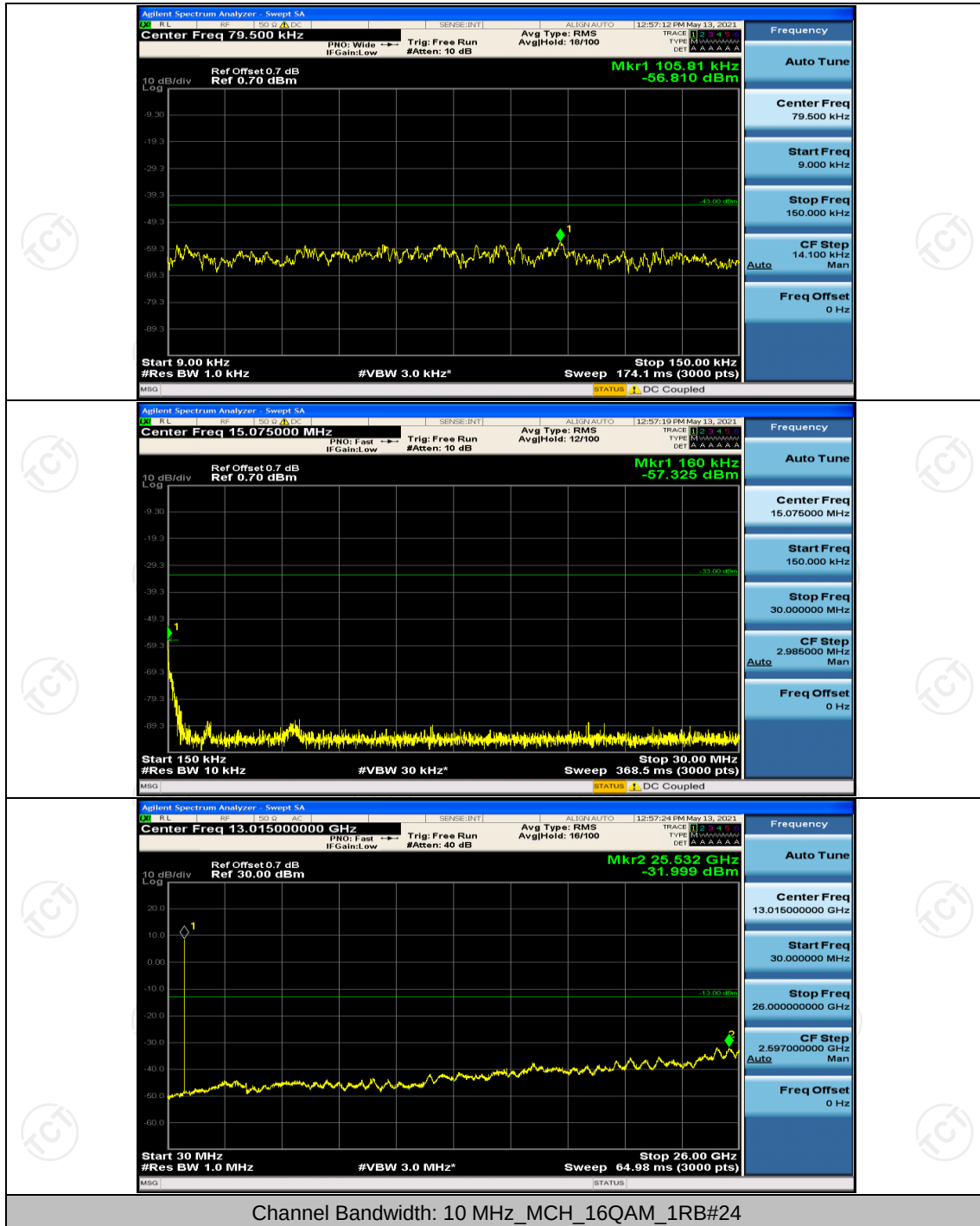


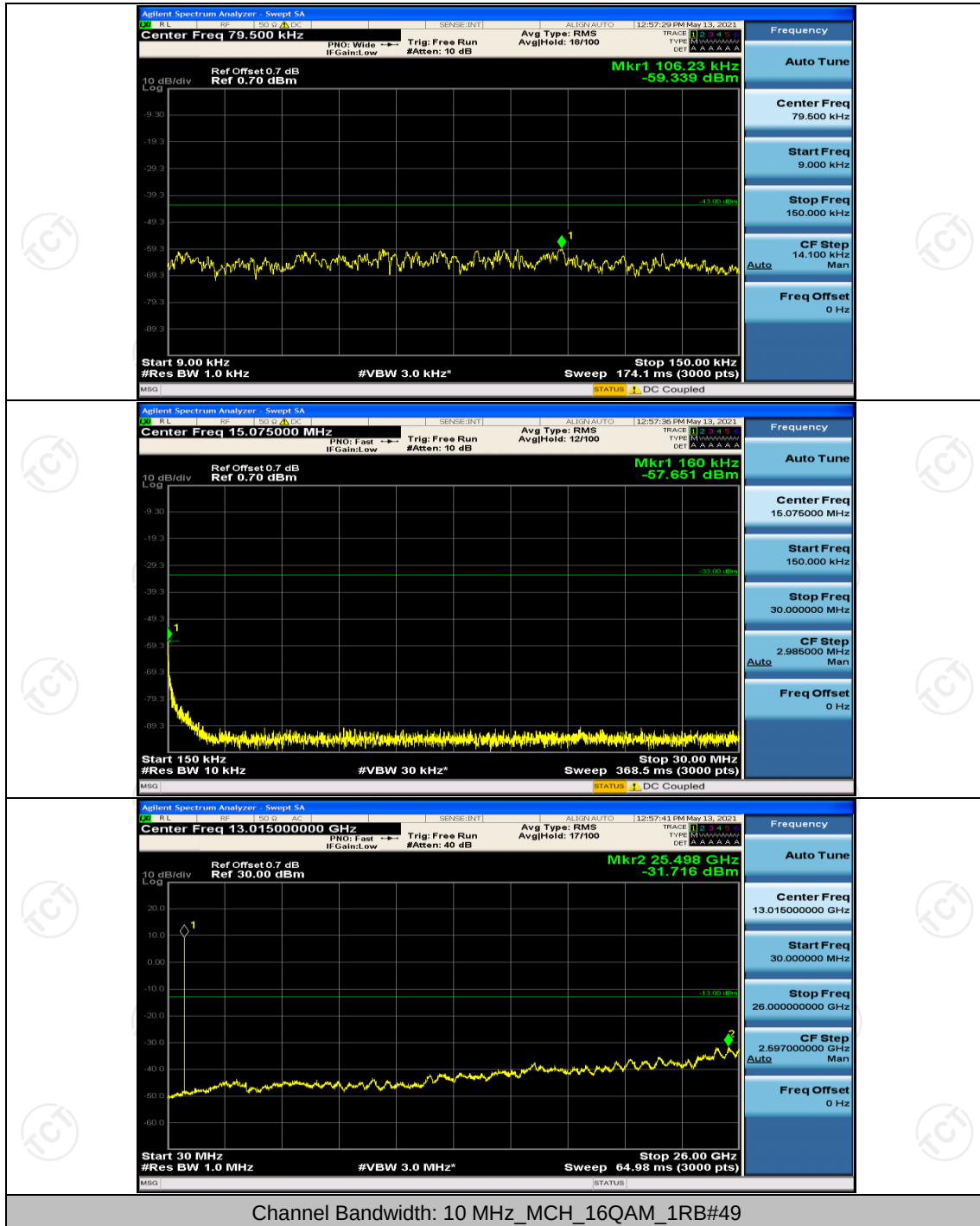


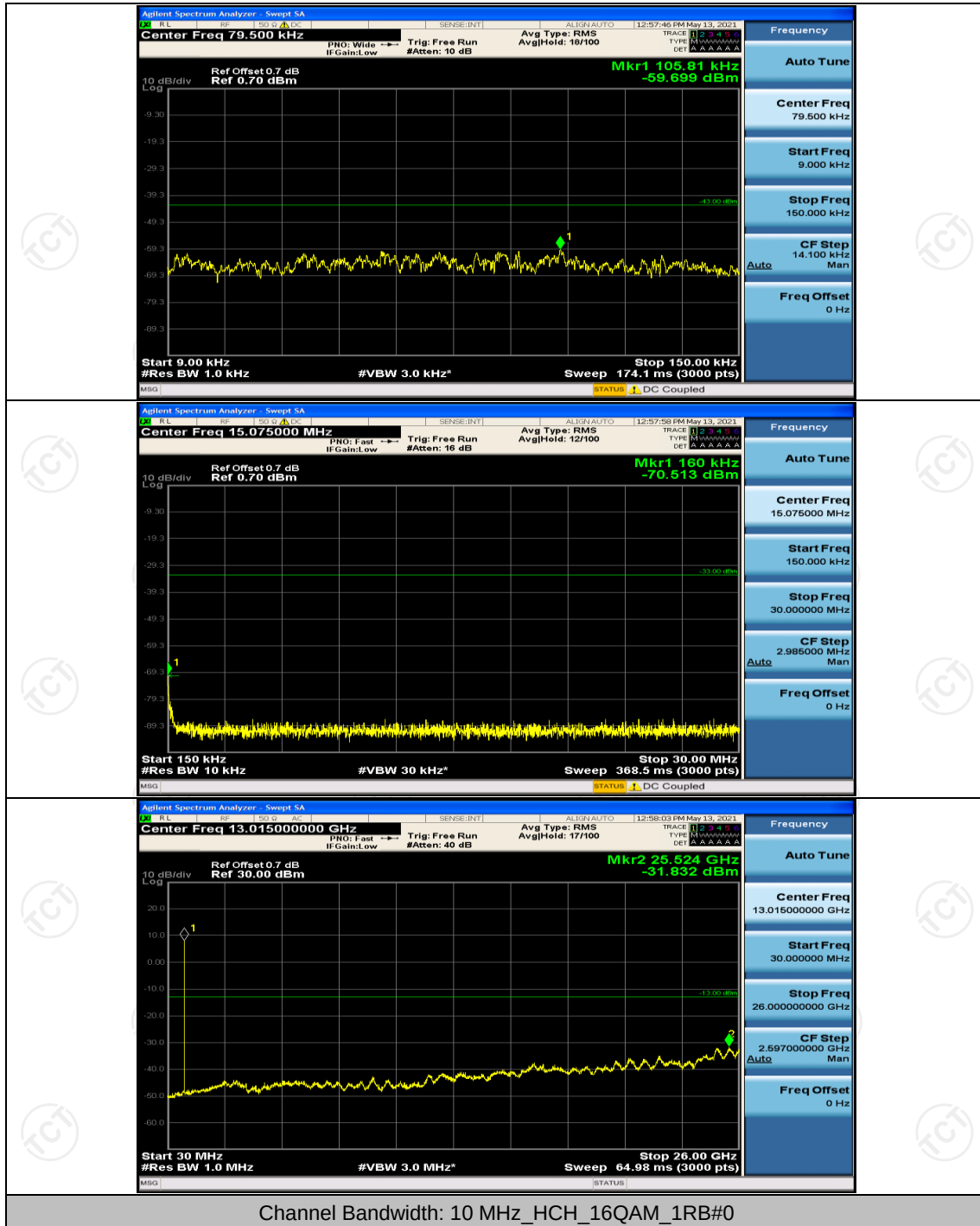


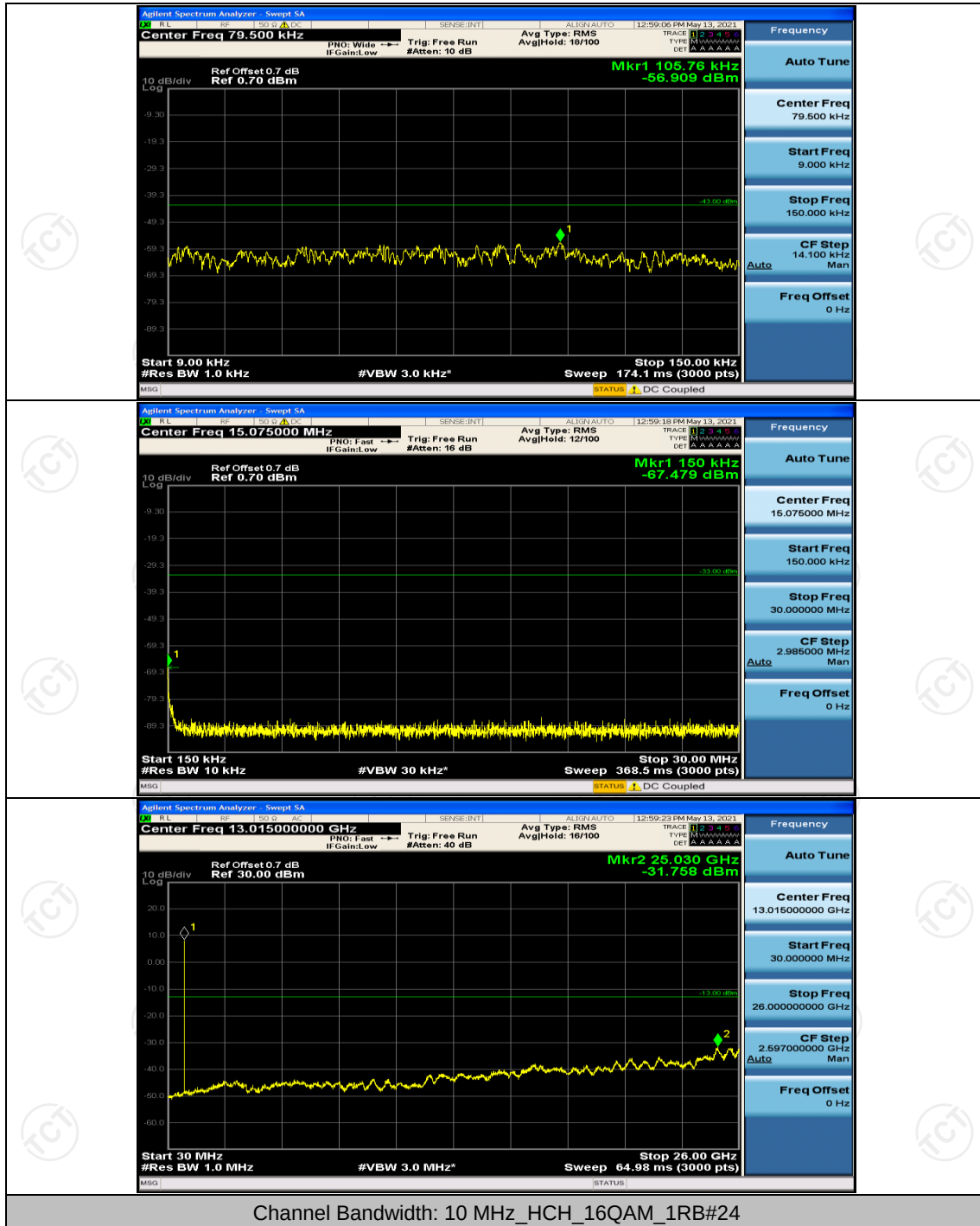


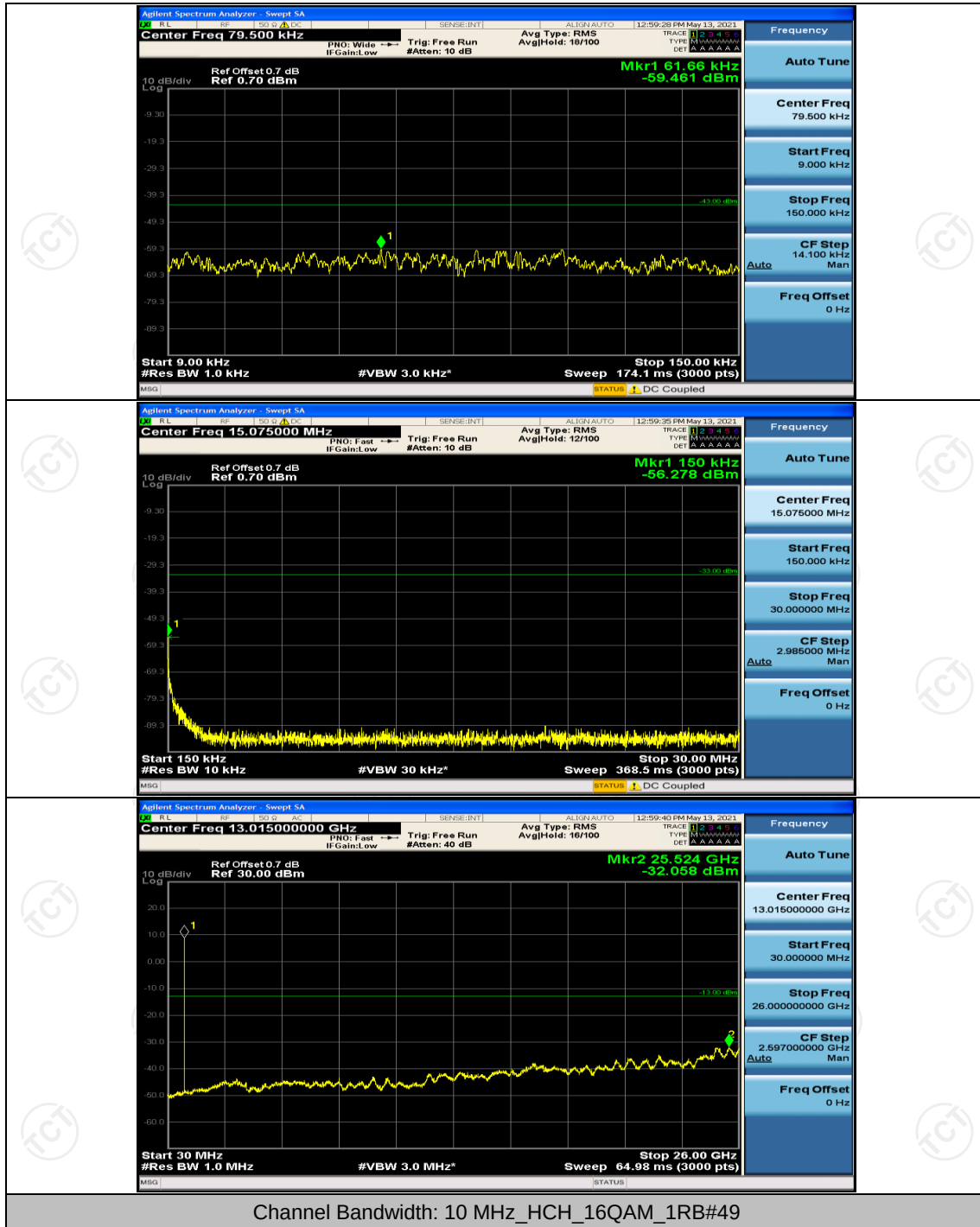


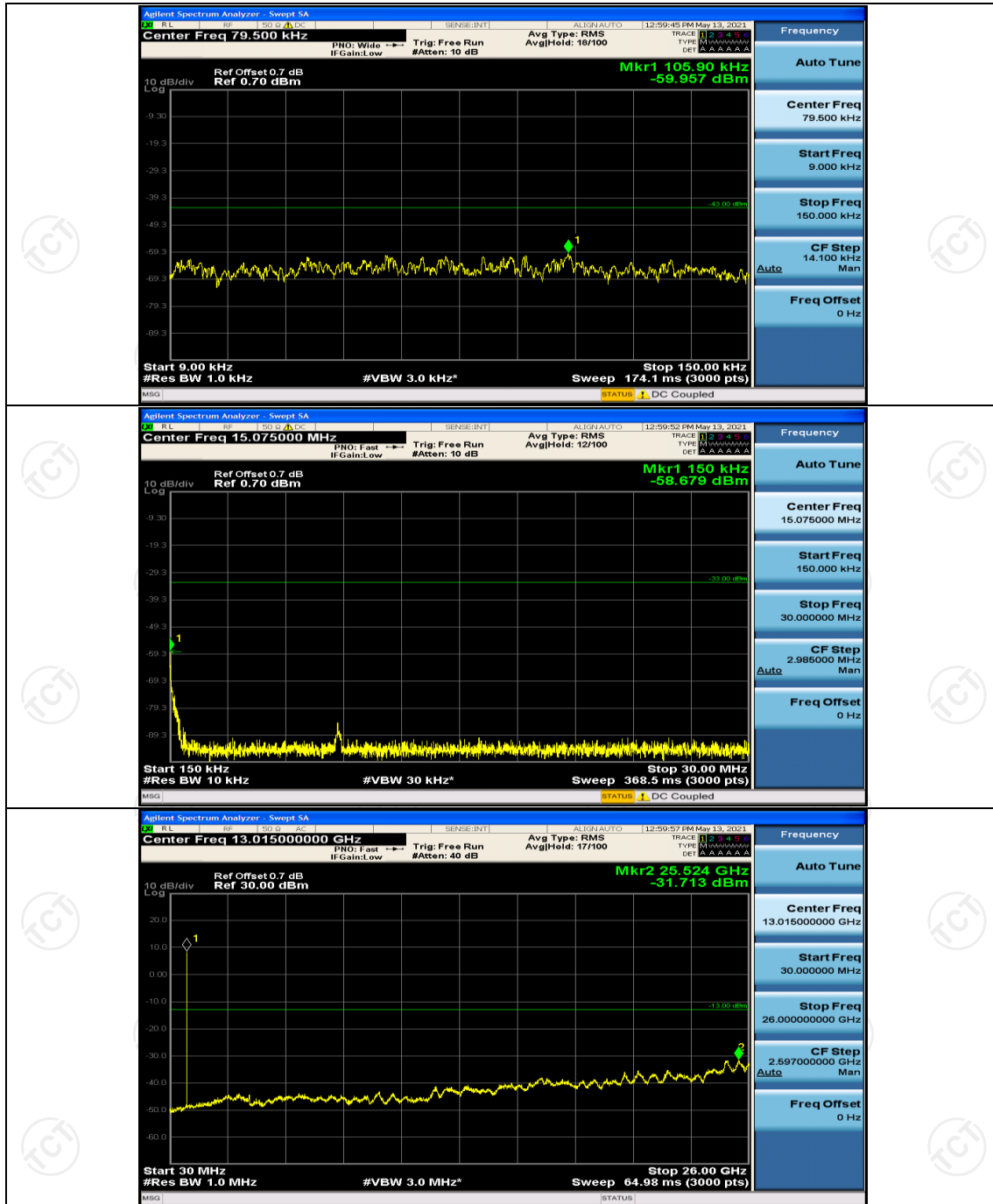












Appendix F: Frequency Stability

Test Result

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	-3.23	-0.001853	± 2.5	PASS
		VN	TN	-1.50	-0.001900	± 2.5	PASS
		VH	TN	-3.12	-0.001787	± 2.5	PASS
	MCH	VL	TN	-3.30	-0.001894	± 2.5	PASS
		VN	TN	-3.26	-0.001869	± 2.5	PASS
		VH	TN	1.59	0.000923	± 2.5	PASS
	HCH	VL	TN	2.02	0.001173	± 2.5	PASS
		VN	TN	0.83	0.000482	± 2.5	PASS
		VH	TN	1.49	0.000865	± 2.5	PASS
16QAM	LCH	VL	TN	-0.34	-0.000194	± 2.5	PASS
		VN	TN	-1.69	-0.002135	± 2.5	PASS
		VH	TN	1.36	0.000790	± 2.5	PASS
	MCH	VL	TN	-0.41	-0.000234	± 2.5	PASS
		VN	TN	-1.47	-0.001858	± 2.5	PASS
		VH	TN	1.03	0.000599	± 2.5	PASS
	HCH	VL	TN	-2.45	-0.001402	± 2.5	PASS
		VN	TN	-1.19	-0.001493	± 2.5	PASS
		VH	TN	-2.85	-0.001631	± 2.5	PASS

Temperature

Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	0.19	0.000105	± 2.5	PASS
		VN	-20	0.73	0.000412	± 2.5	PASS
		VN	-10	0.27	0.000154	± 2.5	PASS
		VN	0	1.46	0.000823	± 2.5	PASS
		VN	10	1.54	0.000872	± 2.5	PASS
		VN	20	-2.66	-0.003366	± 2.5	PASS
		VN	30	-2.10	-0.002660	± 2.5	PASS
		VN	40	-2.29	-0.002895	± 2.5	PASS
		VN	50	-2.09	-0.002642	± 2.5	PASS
	MCH	VN	-30	1.16	0.000654	± 2.5	PASS
		VN	-20	2.53	0.001428	± 2.5	PASS
		VN	-10	-2.66	-0.001525	± 2.5	PASS
		VN	0	-2.96	-0.001697	± 2.5	PASS
		VN	10	-2.59	-0.001484	± 2.5	PASS
		VN	20	-1.60	-0.002020	± 2.5	PASS
		VN	30	-1.59	-0.002002	± 2.5	PASS
		VN	40	-0.29	-0.000361	± 2.5	PASS
		VN	50	-0.47	-0.000595	± 2.5	PASS
	HCH	VN	-30	-3.46	-0.001984	± 2.5	PASS
		VN	-20	0.19	0.000108	± 2.5	PASS
		VN	-10	-0.11	-0.000067	± 2.5	PASS
		VN	0	0.14	0.000083	± 2.5	PASS
		VN	10	-0.06	-0.000033	± 2.5	PASS
		VN	20	1.47	0.001852	± 2.5	PASS
		VN	30	0.56	0.000701	± 2.5	PASS
		VN	40	-0.29	-0.000360	± 2.5	PASS

		VN	50	-0.69	-0.000863	± 2.5	PASS
16QAM	LCH	VN	-30	1.86	0.001049	± 2.5	PASS
		VN	-20	2.23	0.001259	± 2.5	PASS
		VN	-10	1.95	0.001098	± 2.5	PASS
		VN	0	0.89	0.000500	± 2.5	PASS
		VN	10	-2.45	-0.001402	± 2.5	PASS
		VN	20	-2.68	-0.003384	± 2.5	PASS
		VN	30	-1.87	-0.002371	± 2.5	PASS
		VN	40	-1.32	-0.001665	± 2.5	PASS
		VN	50	-1.39	-0.001755	± 2.5	PASS
	MCH	VN	-30	0.09	0.000050	± 2.5	PASS
		VN	-20	0.07	0.000042	± 2.5	PASS
		VN	-10	-3.10	-0.001779	± 2.5	PASS
		VN	0	-3.58	-0.002049	± 2.5	PASS
		VN	10	-2.45	-0.001402	± 2.5	PASS
		VN	20	-1.13	-0.001425	± 2.5	PASS
		VN	30	-0.51	-0.000649	± 2.5	PASS
		VN	40	-0.94	-0.001191	± 2.5	PASS
		VN	50	-1.60	-0.002020	± 2.5	PASS
	HCH	VN	-30	0.83	0.000468	± 2.5	PASS
		VN	-20	0.13	0.000075	± 2.5	PASS
		VN	-10	-2.93	-0.001681	± 2.5	PASS
		VN	0	0.59	0.000341	± 2.5	PASS
		VN	10	-1.10	-0.000641	± 2.5	PASS
		VN	20	0.04	0.000054	± 2.5	PASS
		VN	30	0.06	0.000072	± 2.5	PASS
		VN	40	0.80	0.001007	± 2.5	PASS
		VN	50	0.01	0.000018	± 2.5	PASS

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