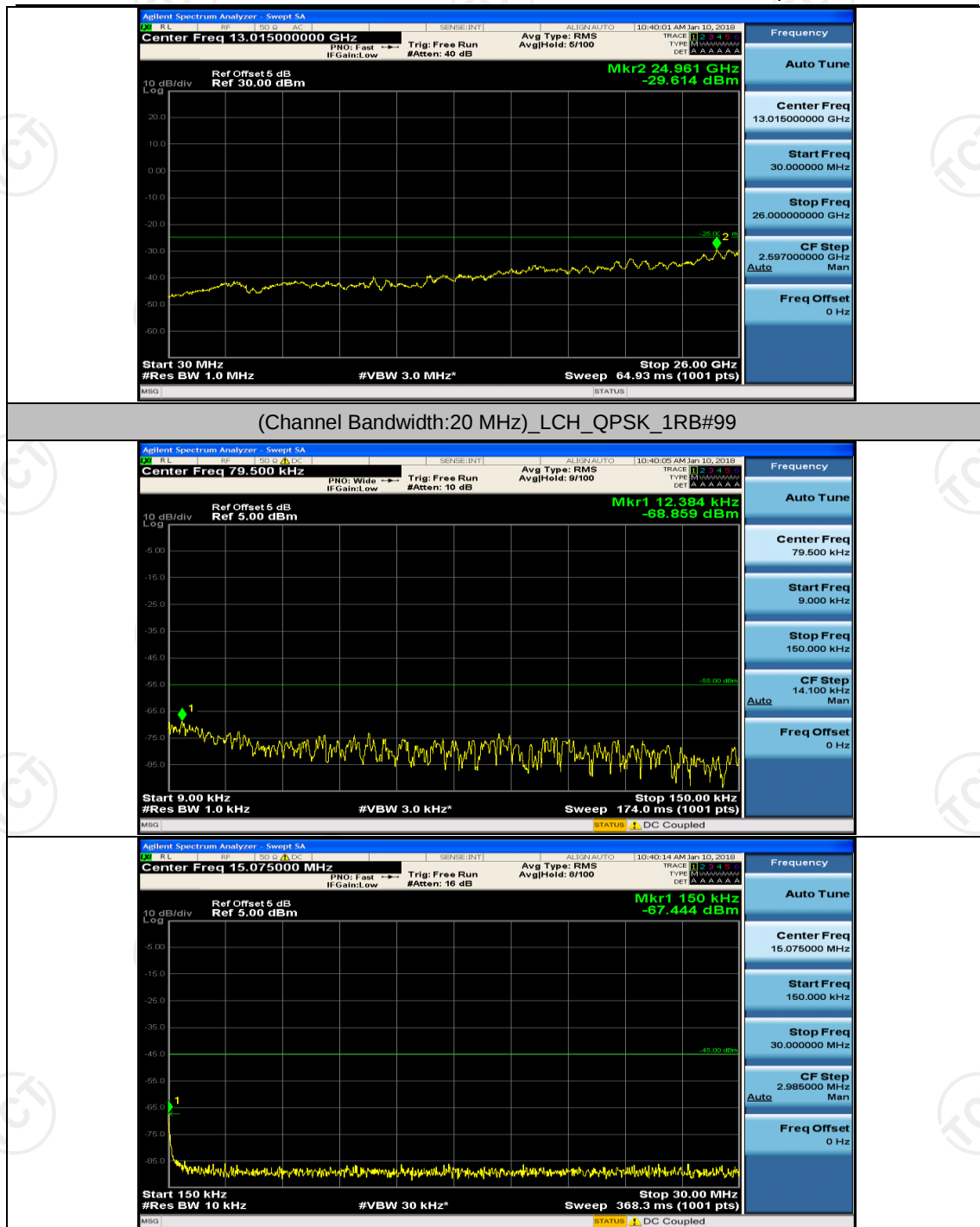
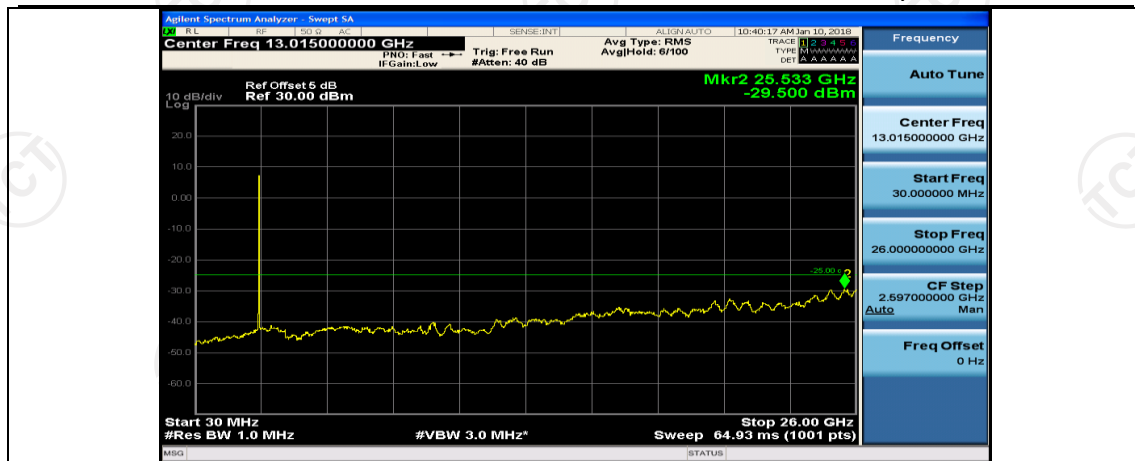
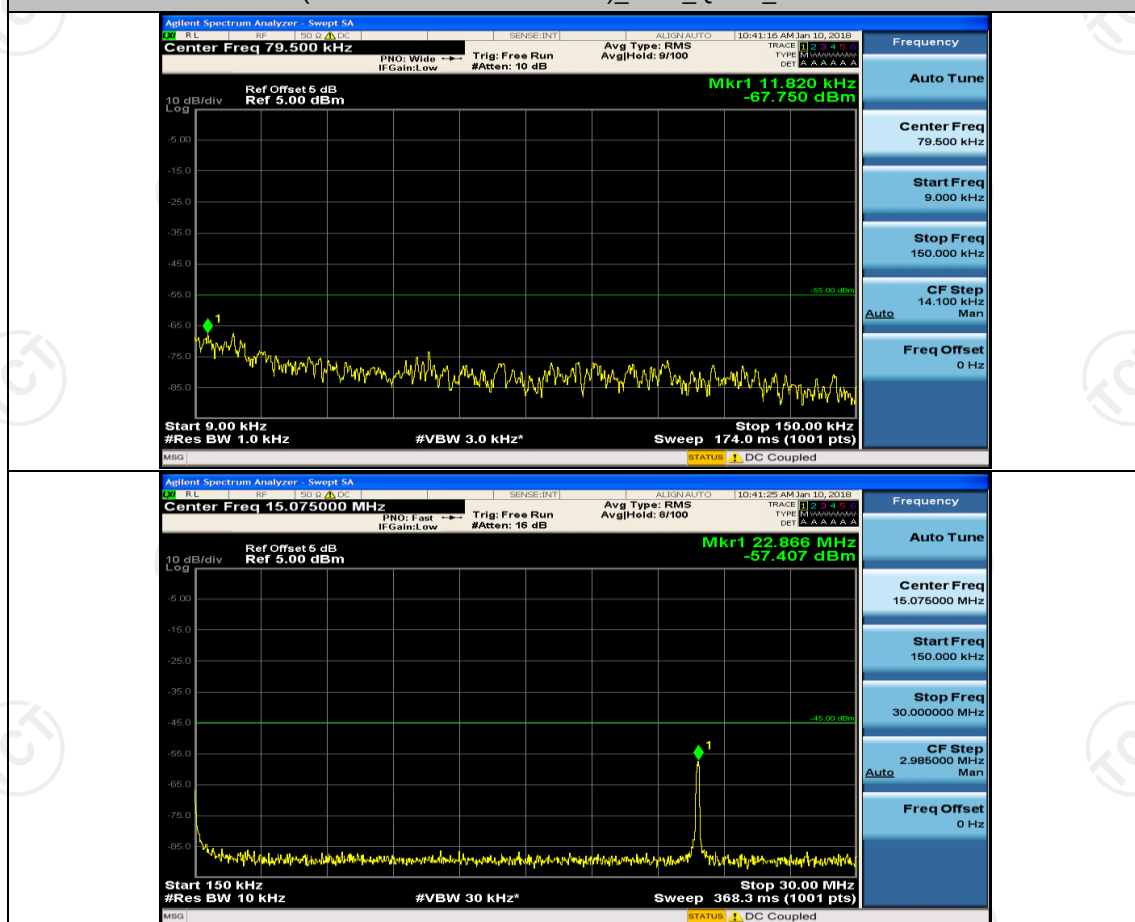
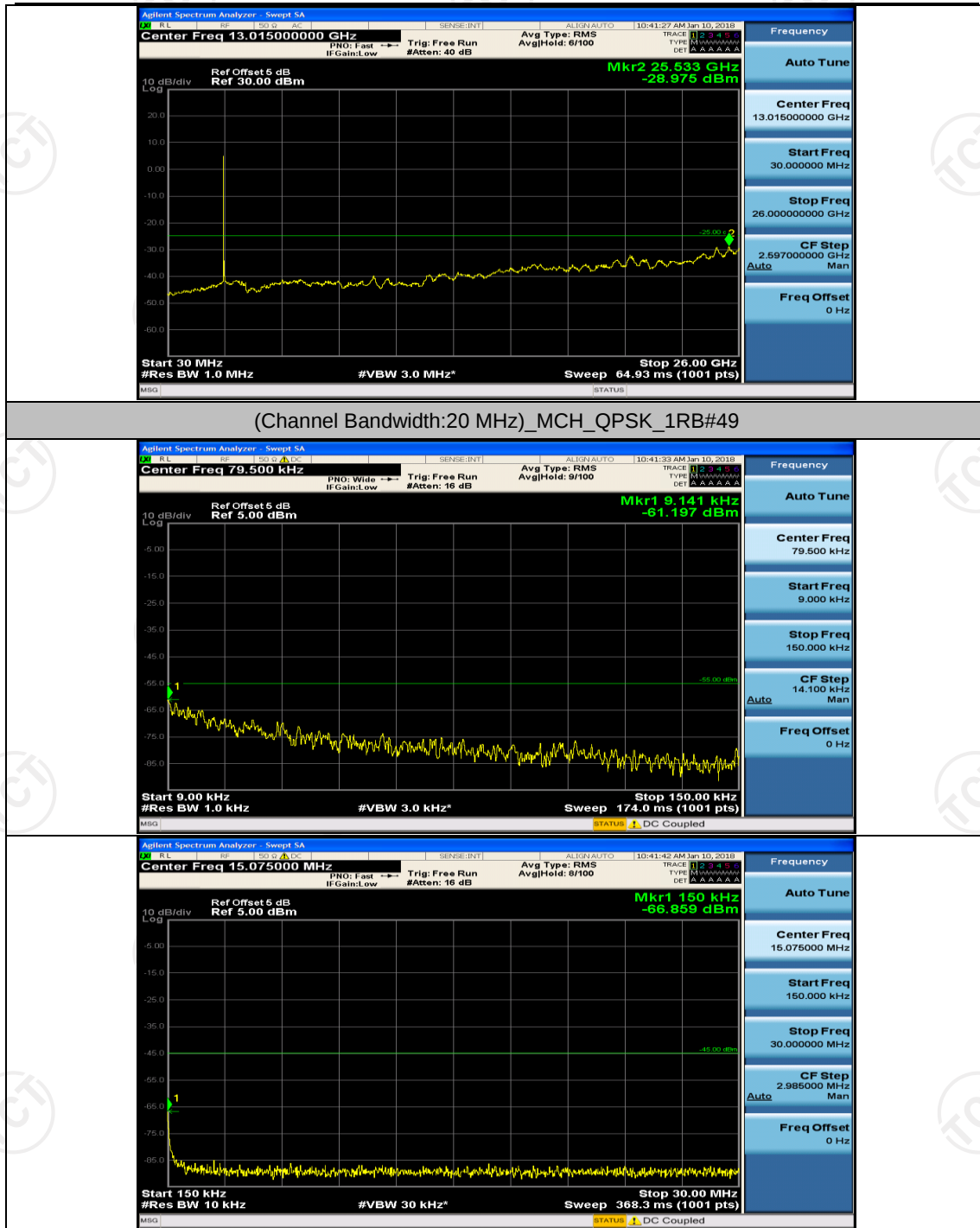


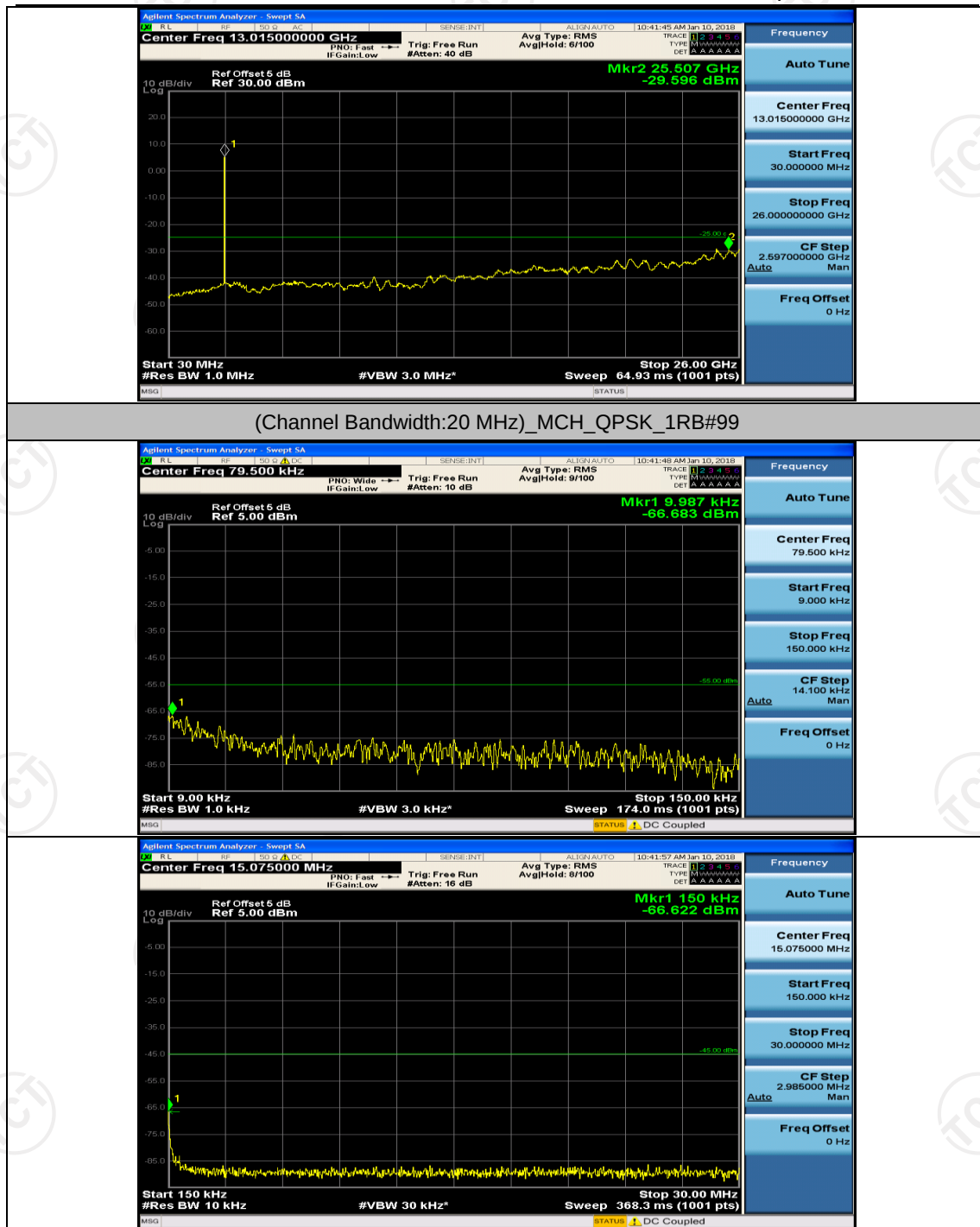


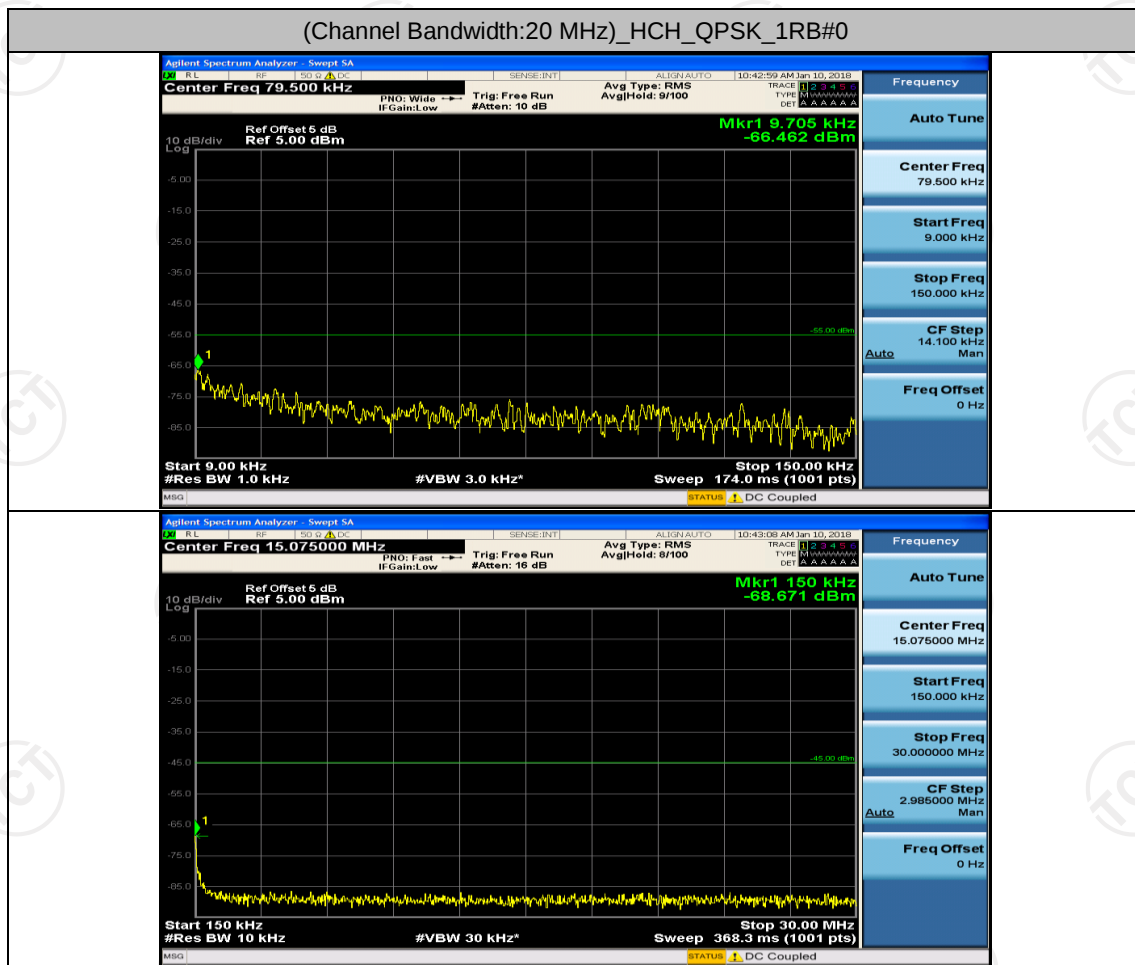
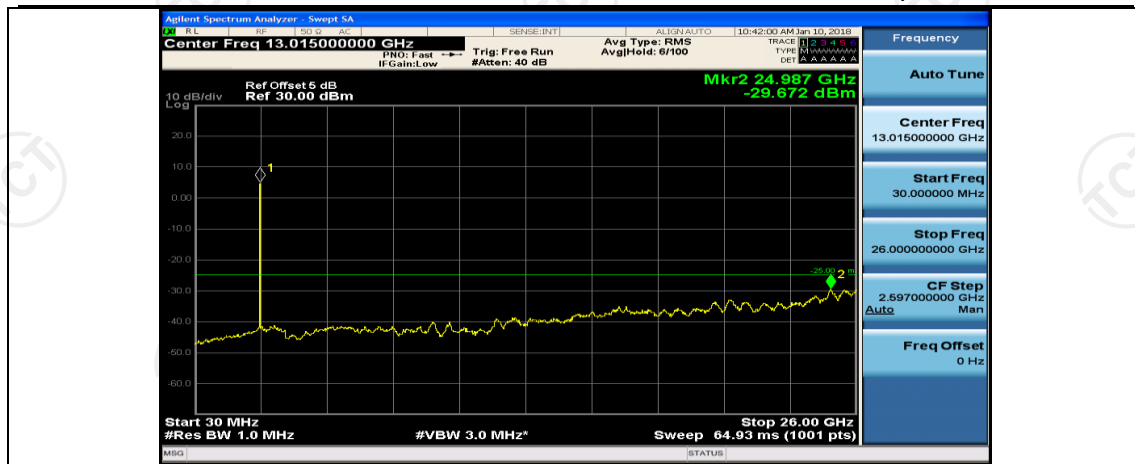


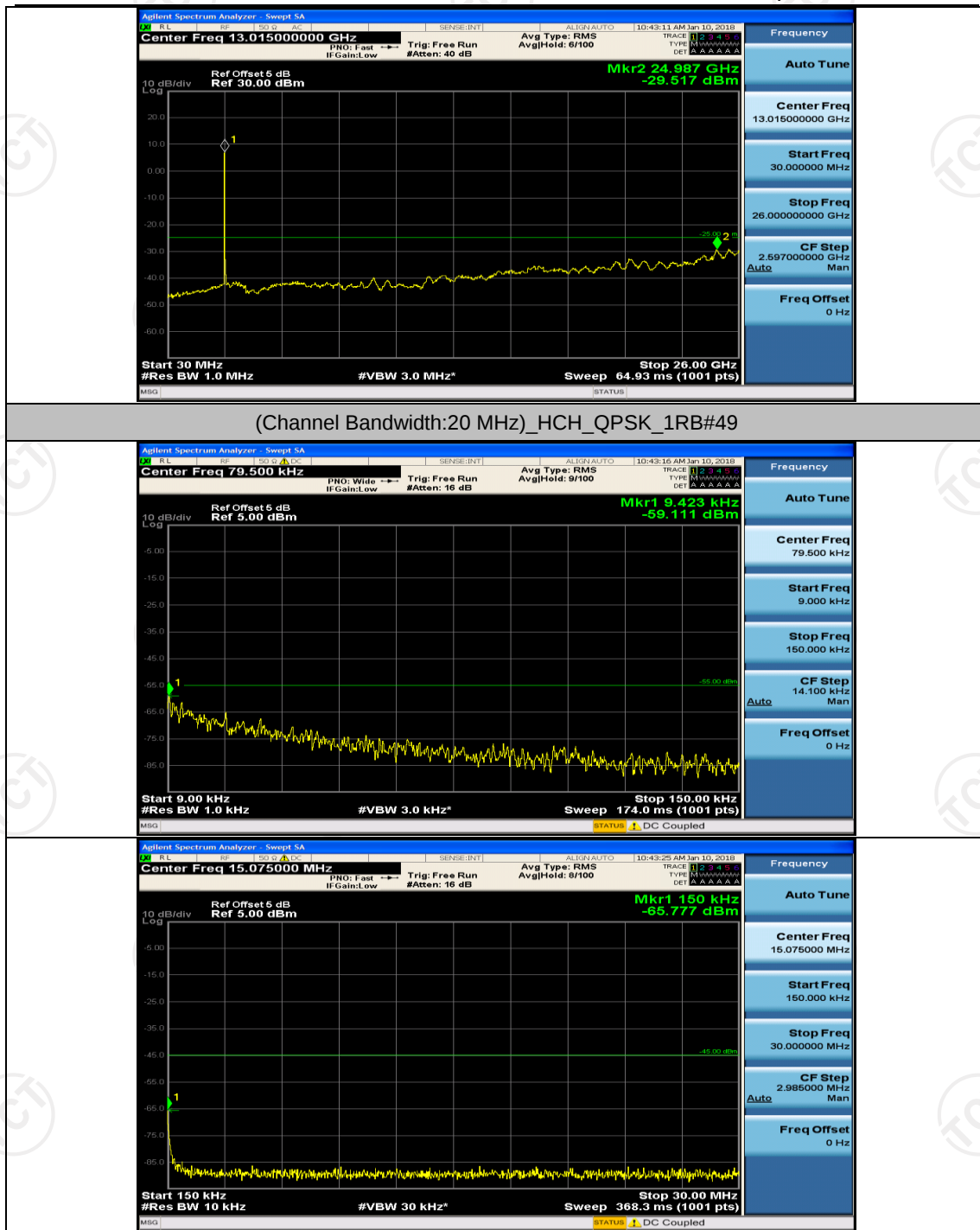
(Channel Bandwidth:20 MHz)_MCH_QPSK_1RB#0

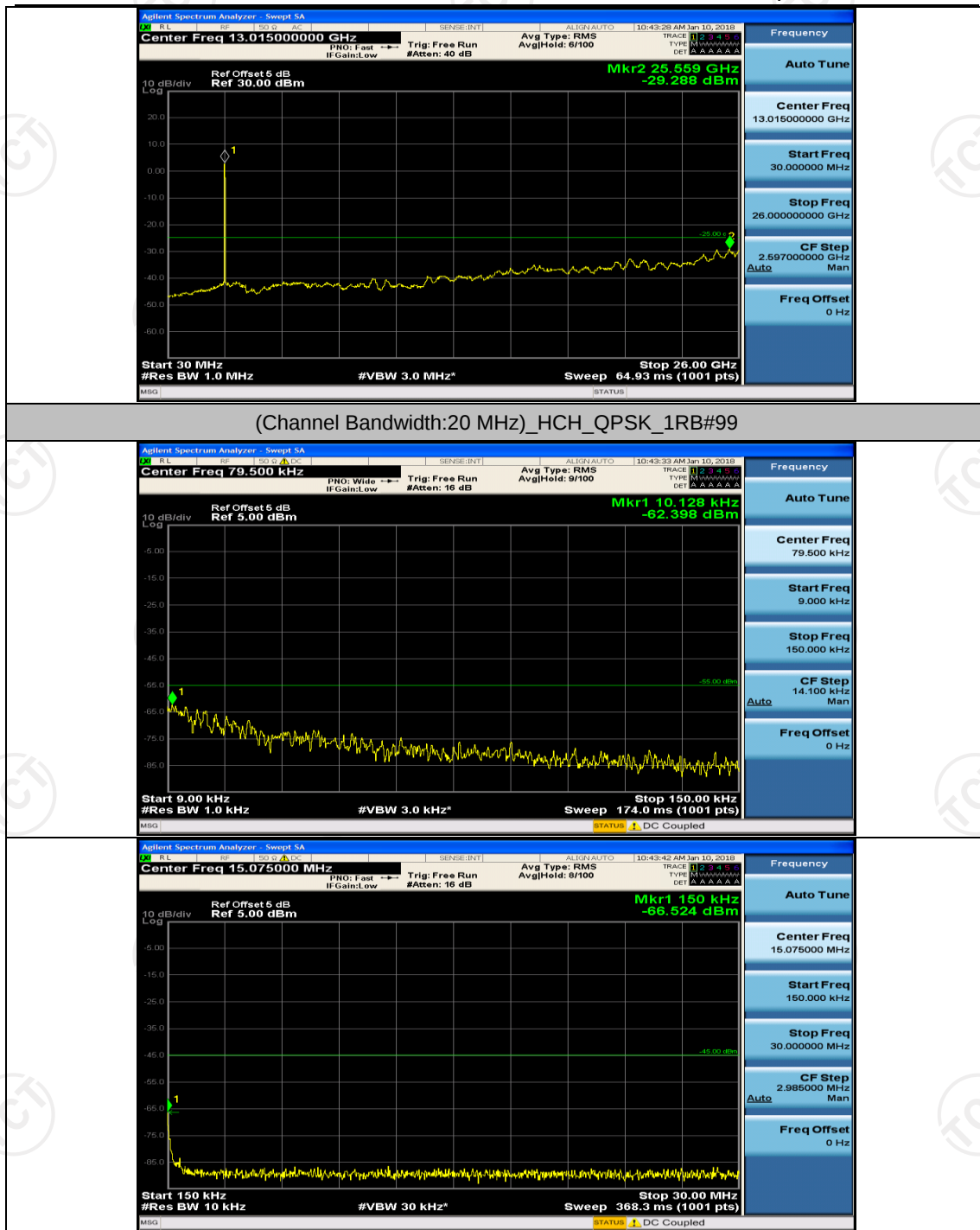


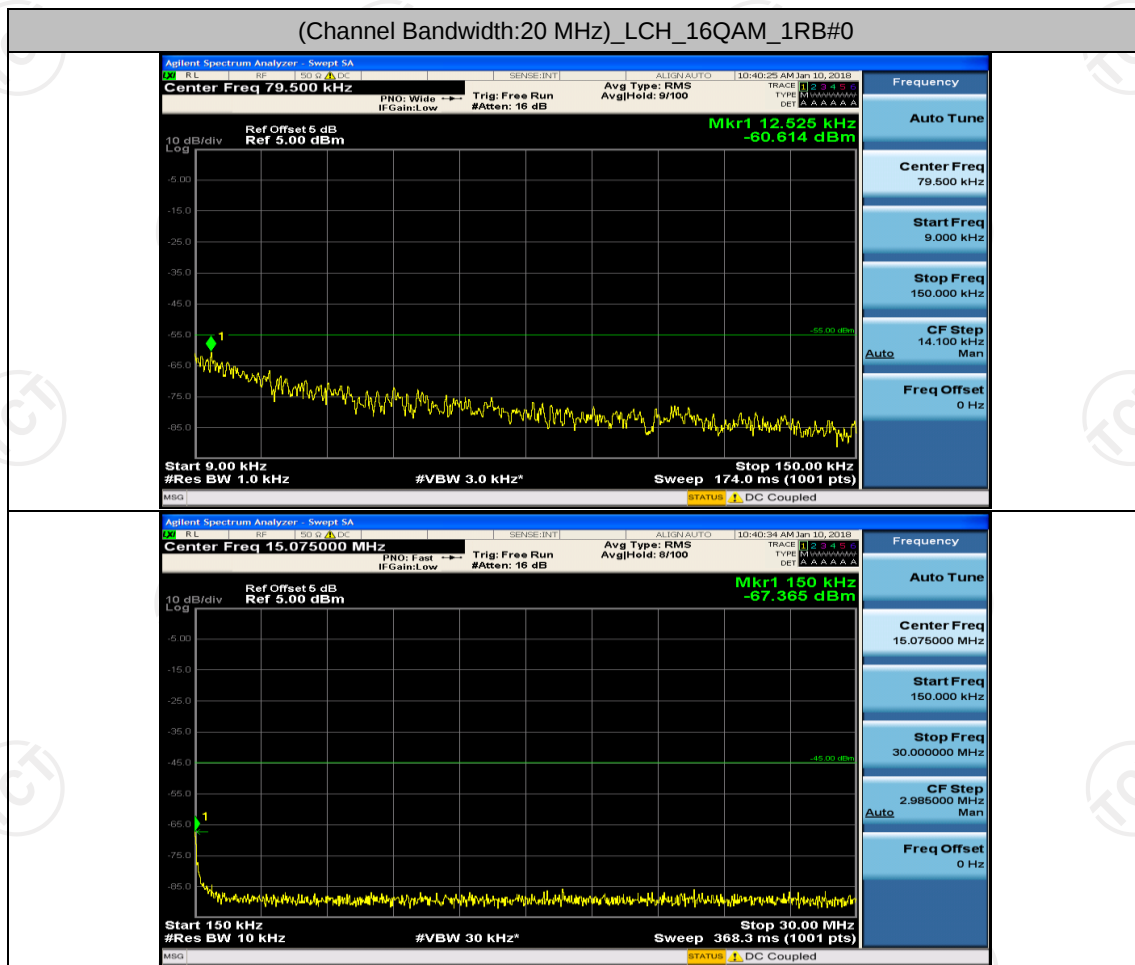
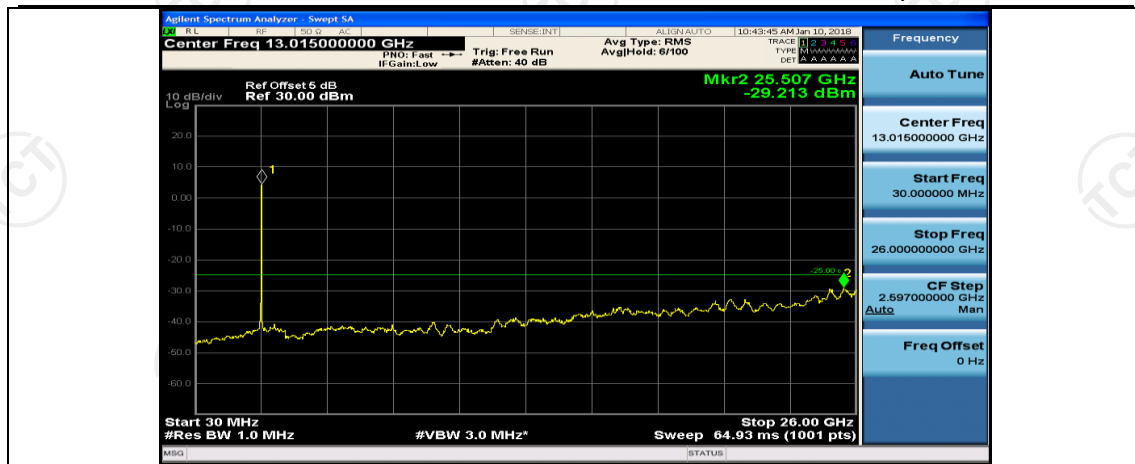


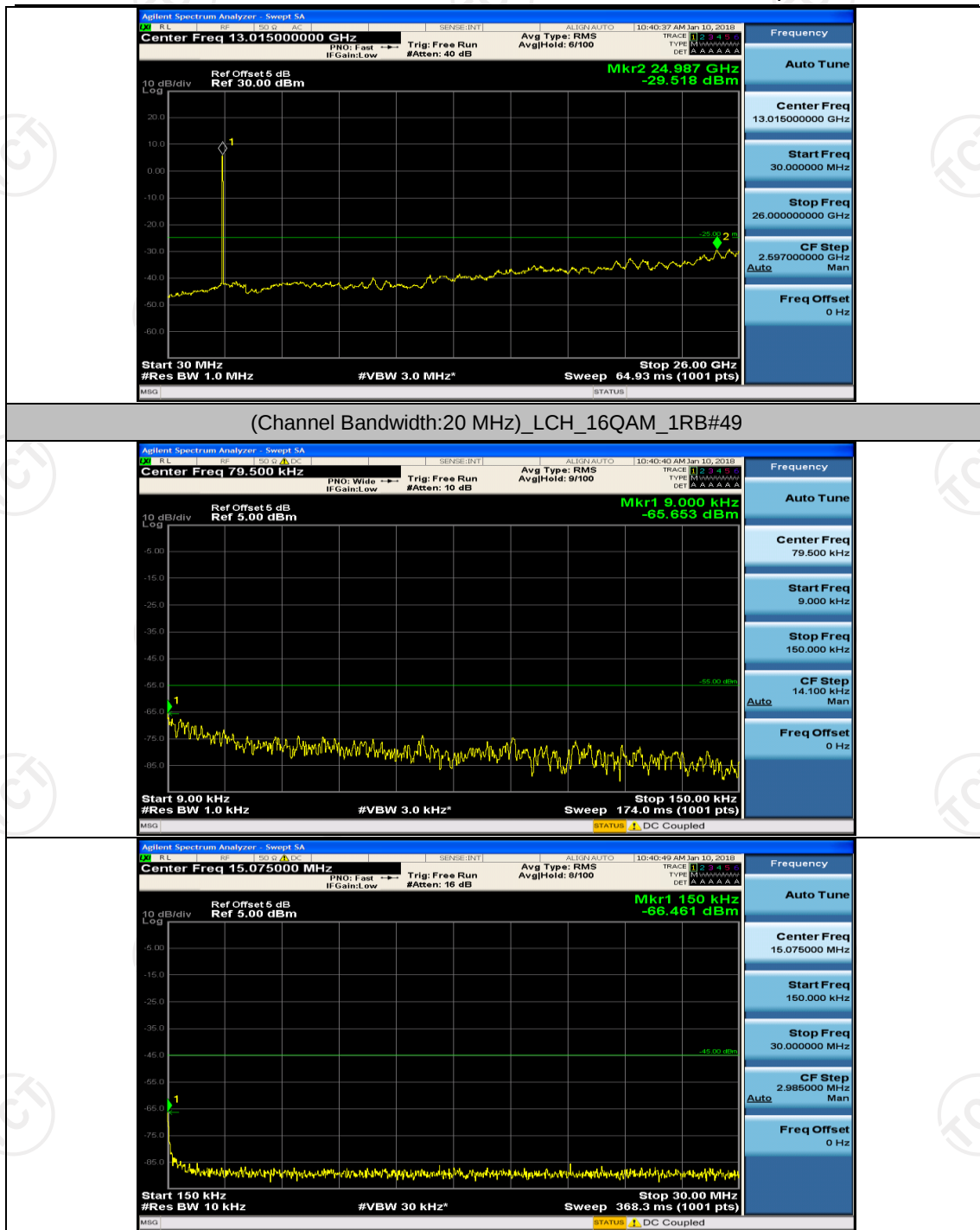


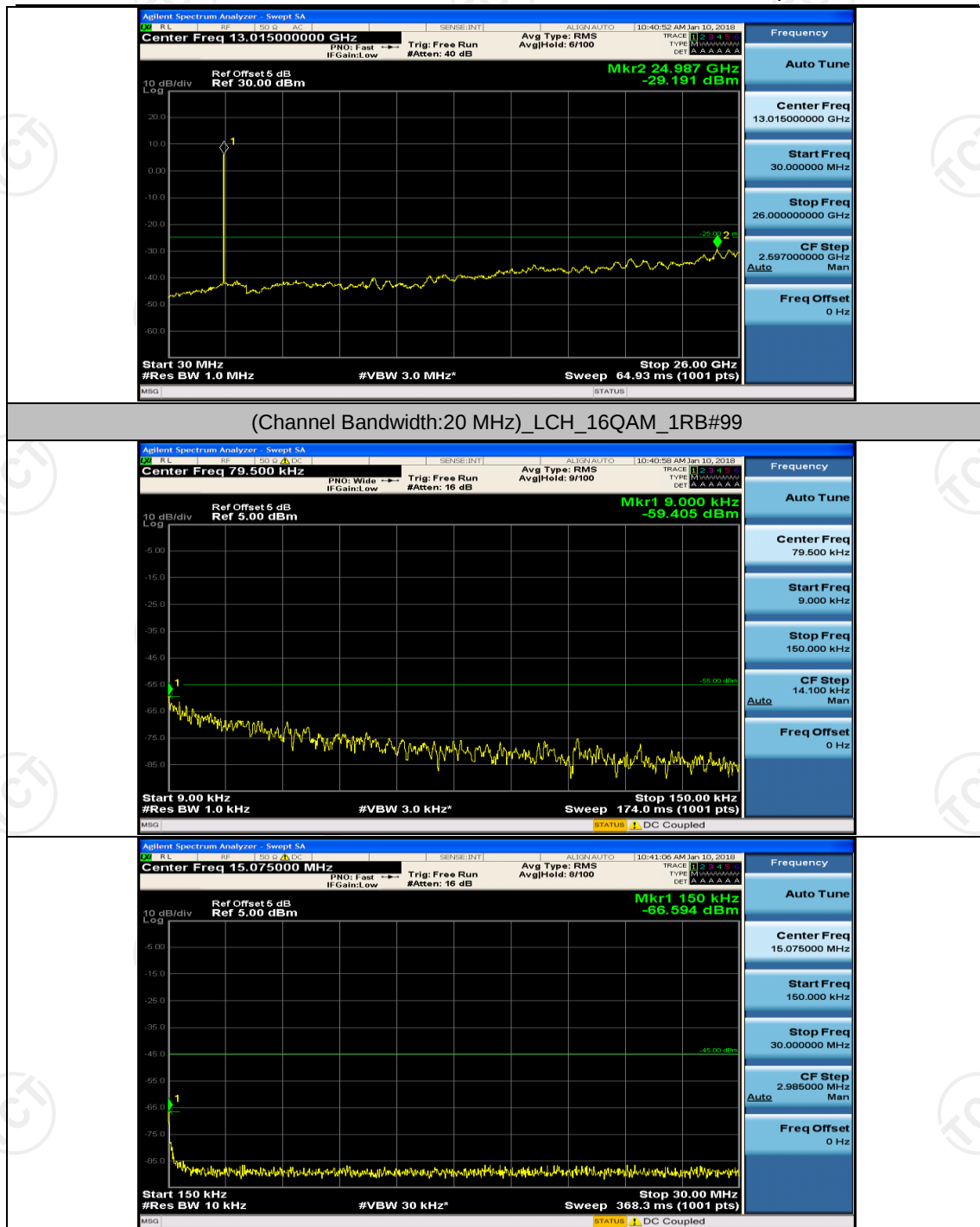


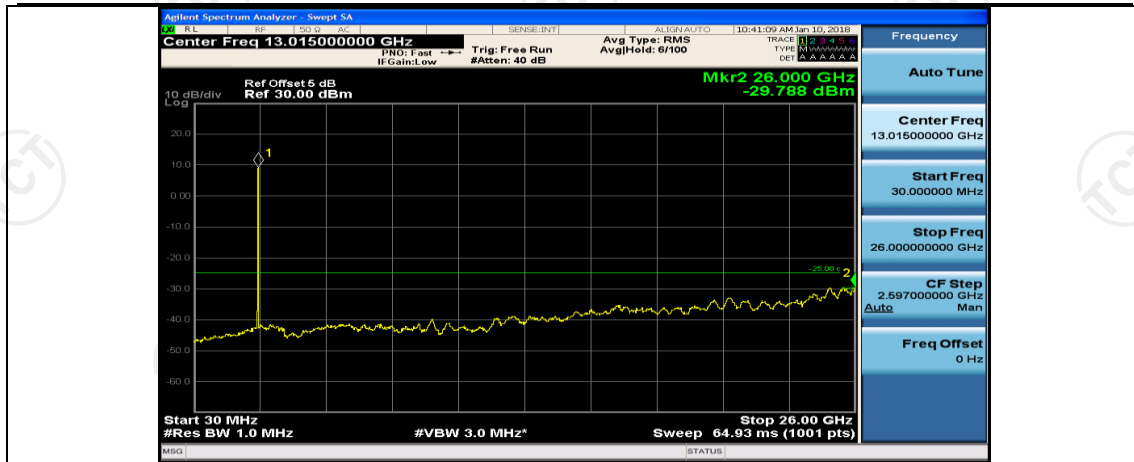




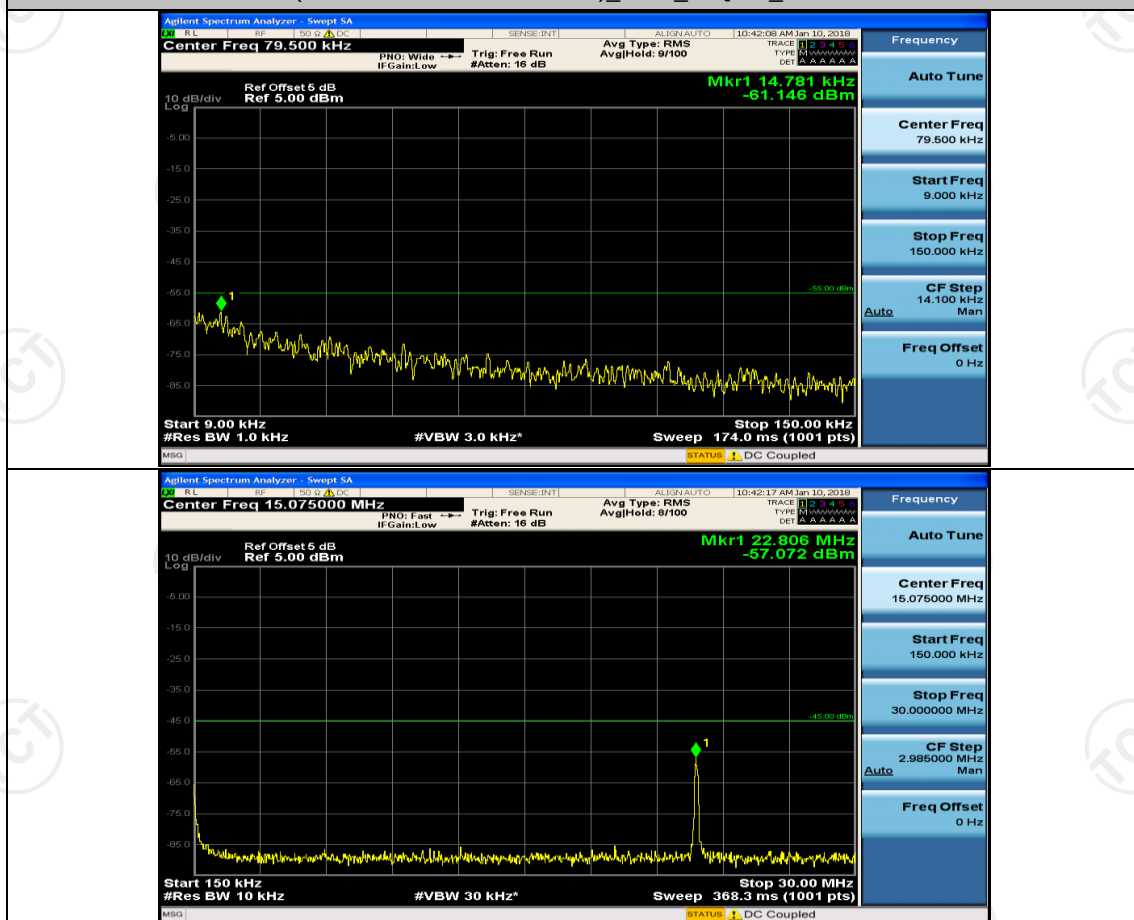


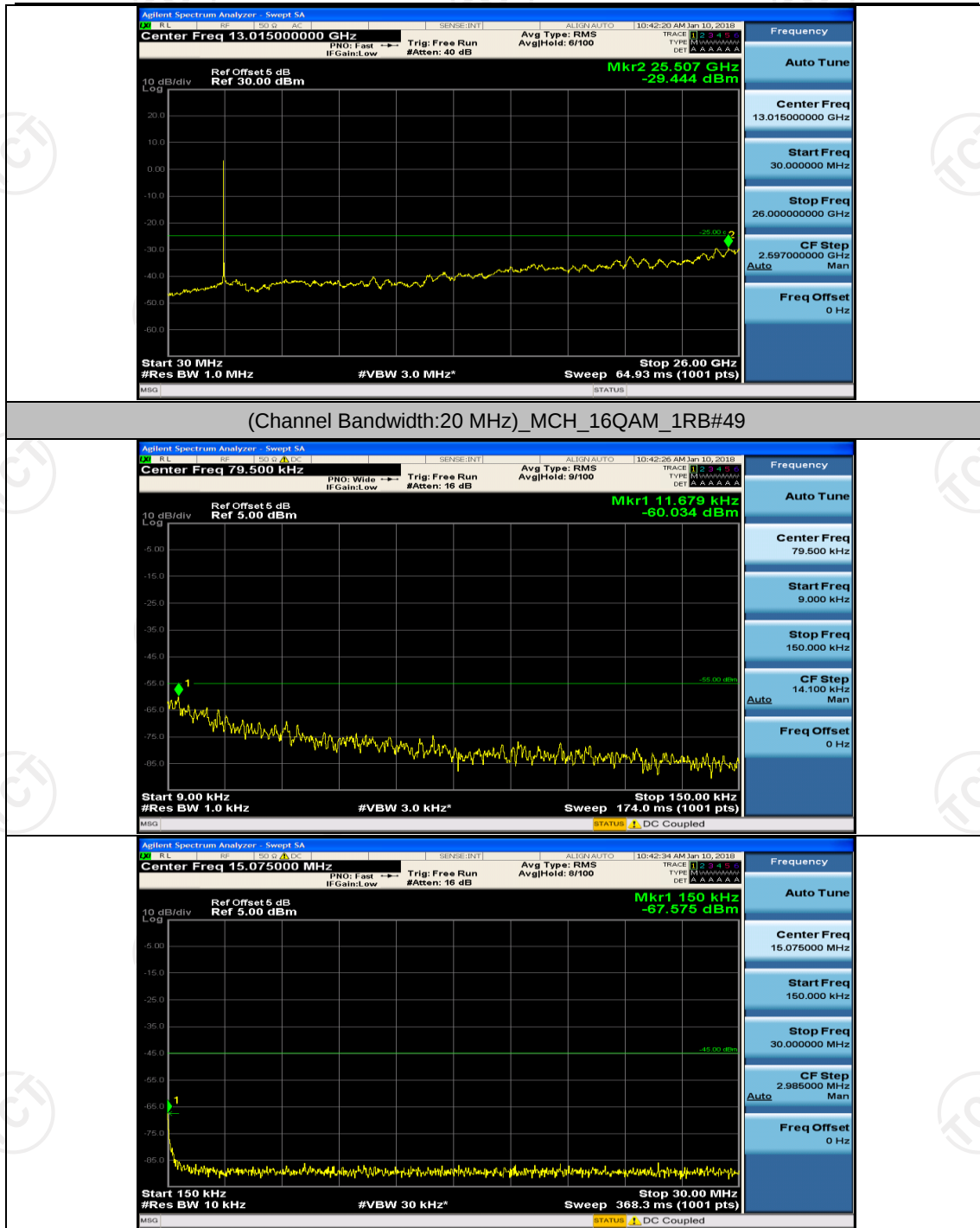


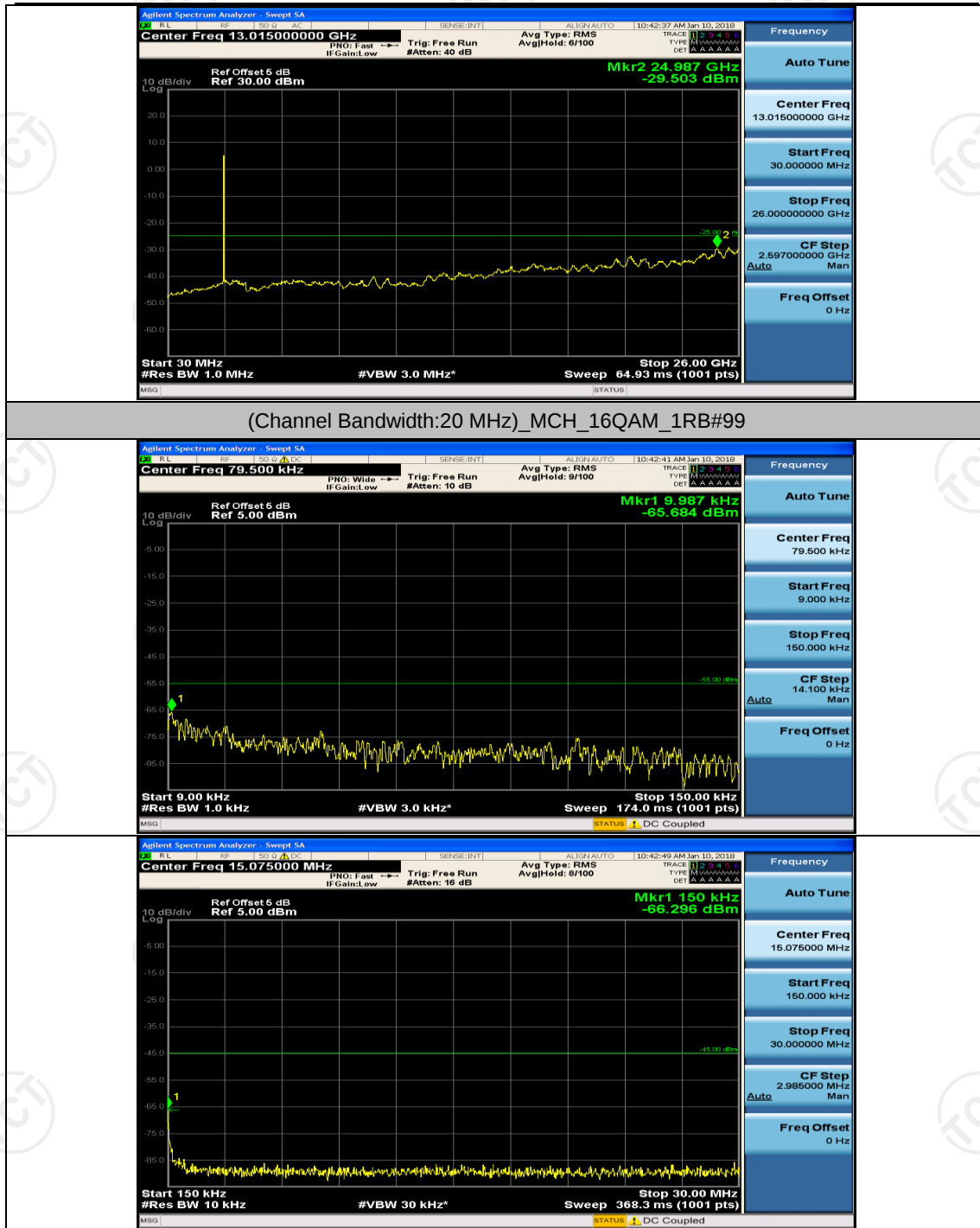


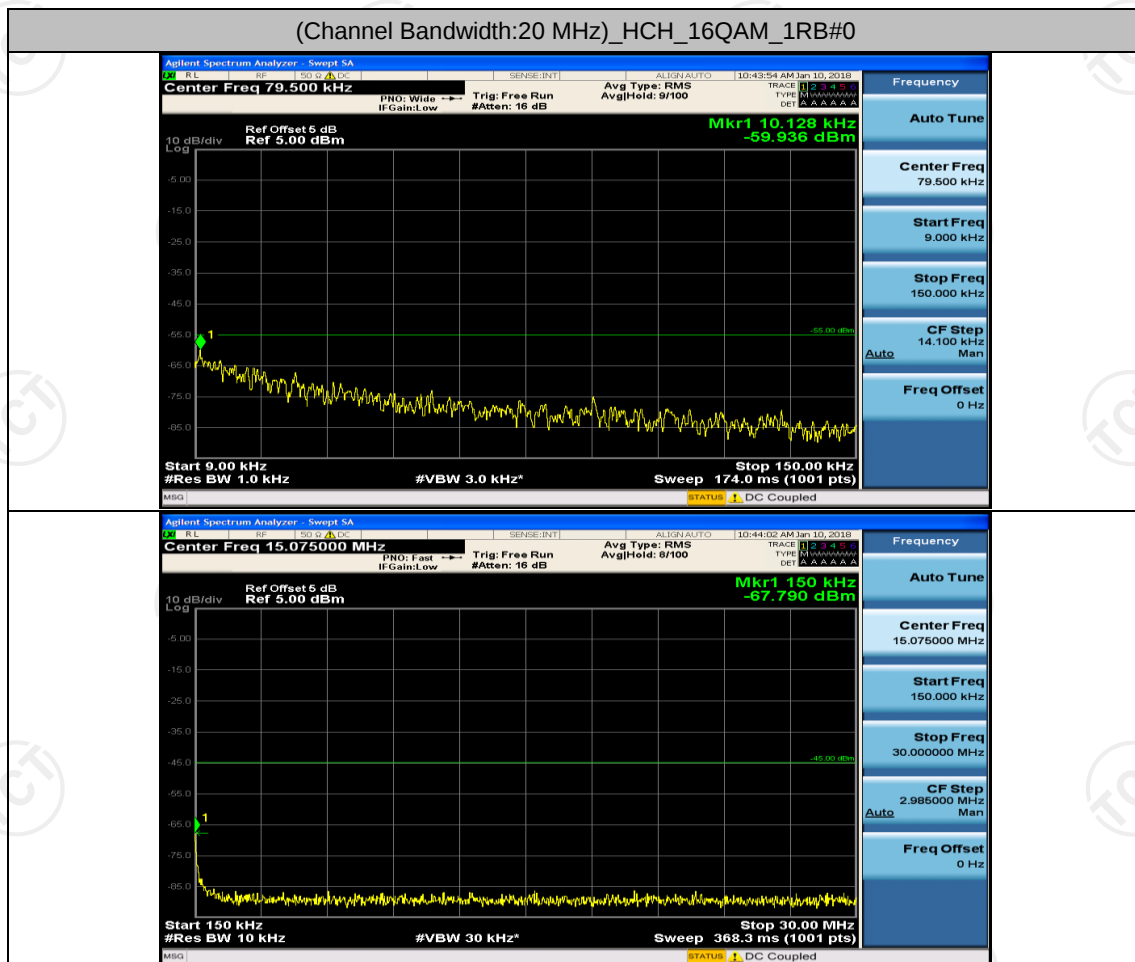
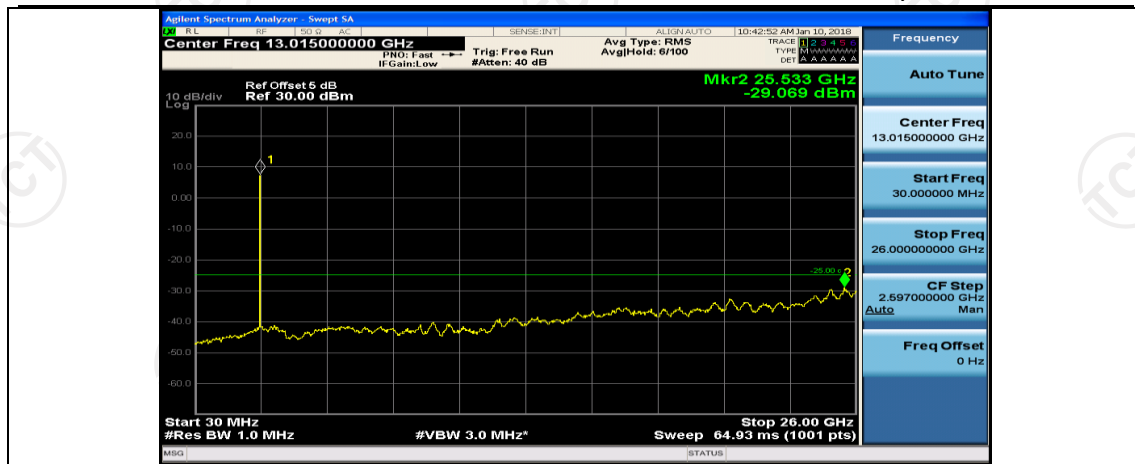


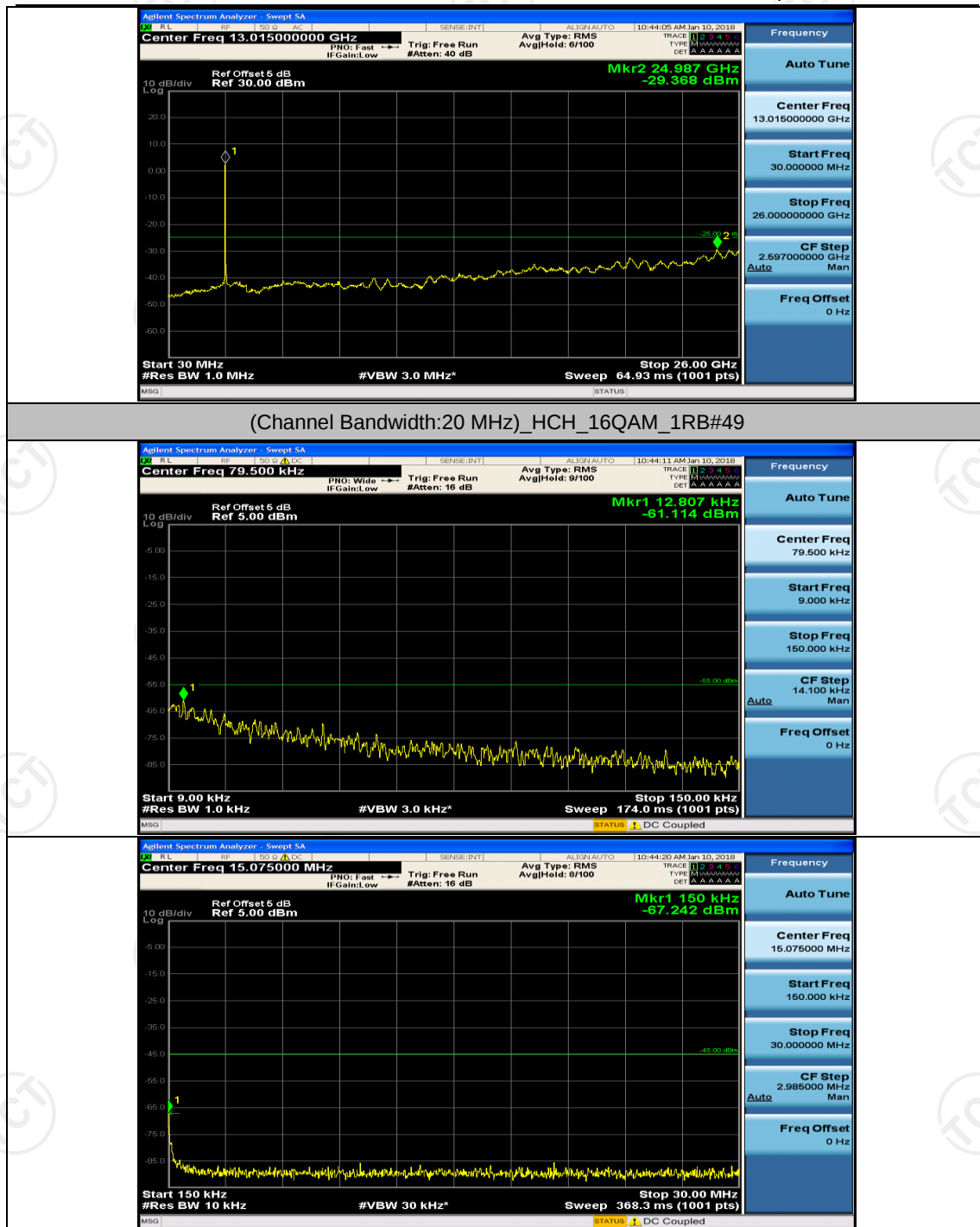
(Channel Bandwidth:20 MHz)_MCH_16QAM_1RB#0

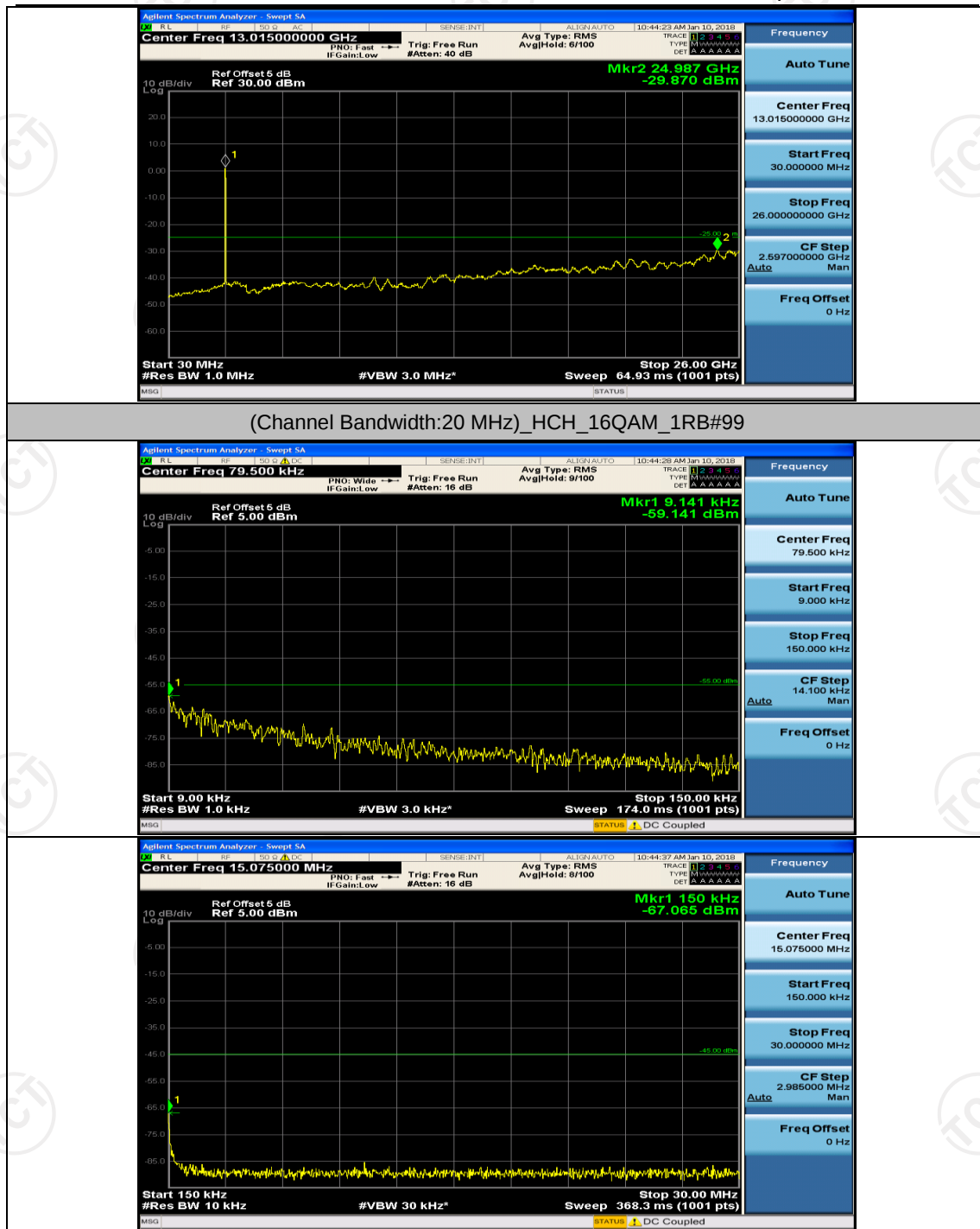


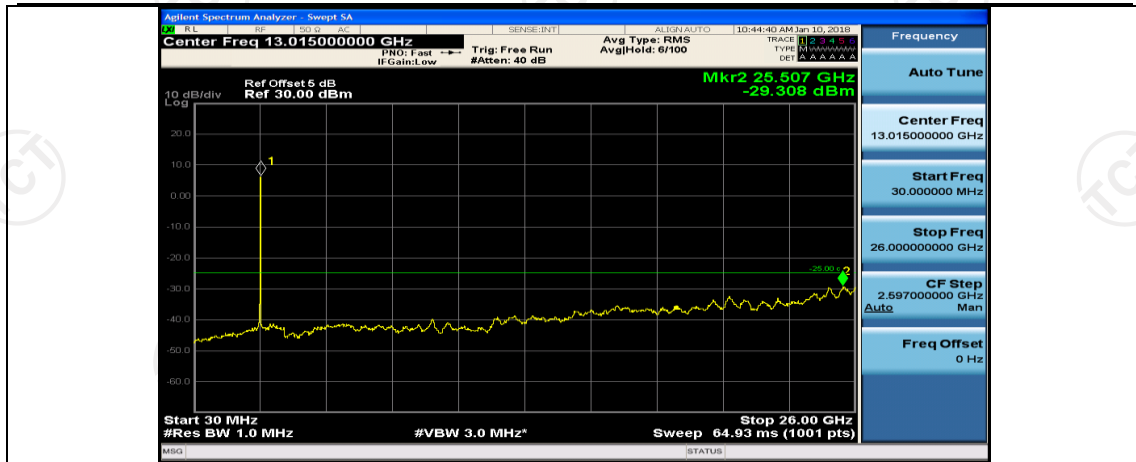












Appendix F: Frequency Stability

Test Result

Channel Bandwidth: 5 MHz

Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	3.6	25	-0.002234	± 2.5	PASS
		3.8V	25	-0.001584	± 2.5	PASS
		4.2	25	-0.001573	± 2.5	PASS
	MCH	3.6	25	-0.002045	± 2.5	PASS
		3.8V	25	-0.001534	± 2.5	PASS
		4.2	25	-0.001733	± 2.5	PASS
	HCH	3.6	25	-0.000243	± 2.5	PASS
		3.8V	25	-0.000343	± 2.5	PASS
		4.2	25	-0.000437	± 2.5	PASS
16QAM	LCH	3.6	25	0.001365	± 2.5	PASS
		3.8V	25	0.001731	± 2.5	PASS
		4.2	25	0.002520	± 2.5	PASS
	MCH	3.6	25	0.001743	± 2.5	PASS
		3.8V	25	0.000872	± 2.5	PASS
		4.2	25	0.001006	± 2.5	PASS
	HCH	3.6	25	0.003435	± 2.5	PASS
		3.8V	25	0.002485	± 2.5	PASS
		4.2	25	0.004340	± 2.5	PASS
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	3.8V	-30	0.004302	± 2.5	PASS
		3.8V	-20	0.003453	± 2.5	PASS
		3.8V	-10	0.0035324	± 2.5	PASS
		3.8V	0	0.003704	± 2.5	PASS
		3.8V	10	0.003642	± 2.5	PASS
		3.8V	20	0.003292	± 2.5	PASS
		3.8V	30	0.001550	± 2.5	PASS
		3.8V	40	0.001037	± 2.5	PASS
		3.8V	50	0.002373	± 2.5	PASS
	MCH	3.8V	-30	-0.002044	± 2.5	PASS
		3.8V	-20	-0.001434	± 2.5	PASS
		3.8V	-10	-0.003045	± 2.5	PASS
		3.8V	0	-0.003749	± 2.5	PASS
		3.8V	10	-0.005374	± 2.5	PASS
		3.8V	20	-0.001848	± 2.5	PASS
		3.8V	30	0.003470	± 2.5	PASS

	HCH	3.8V	40	0.000552	± 2.5	PASS
		3.8V	50	0.001633	± 2.5	PASS
		3.8V	-30	0.000434	± 2.5	PASS
		3.8V	-20	0.001733	± 2.5	PASS
		3.8V	-10	0.002434	± 2.5	PASS
		3.8V	0	0.002453	± 2.5	PASS
		3.8V	10	0.003152	± 2.5	PASS
		3.8V	20	0.001323	± 2.5	PASS
		3.8V	30	0.004171	± 2.5	PASS
		3.8V	40	0.002059	± 2.5	PASS
		3.8V	50	0.003458	± 2.5	PASS
16QAM	LCH	3.8V	-30	0.003653	± 2.5	PASS
		3.8V	-20	0.002574	± 2.5	PASS
		3.8V	-10	0.001967	± 2.5	PASS
		3.8V	0	0.002594	± 2.5	PASS
		3.8V	10	0.001374	± 2.5	PASS
		3.8V	20	0.000530	± 2.5	PASS
		3.8V	30	0.000428	± 2.5	PASS
		3.8V	40	0.001494	± 2.5	PASS
		3.8V	50	0.001330	± 2.5	PASS
	MCH	3.8V	-30	0.001825	± 2.5	PASS
		3.8V	-20	0.001534	± 2.5	PASS
		3.8V	-10	0.003452	± 2.5	PASS
		3.8V	0	0.001531	± 2.5	PASS
		3.8V	10	0.001612	± 2.5	PASS
		3.8V	20	0.001401	± 2.5	PASS
		3.8V	30	0.000541	± 2.5	PASS
		3.8V	40	0.002091	± 2.5	PASS
		3.8V	50	0.000684	± 2.5	PASS
	HCH	3.8V	-30	0.002348	± 2.5	PASS
		3.8V	-20	0.002376	± 2.5	PASS
		3.8V	-10	0.001934	± 2.5	PASS
		3.8V	0	0.002263	± 2.5	PASS
		3.8V	10	0.001735	± 2.5	PASS
		3.8V	20	0.001880	± 2.5	PASS
		3.8V	30	0.002194	± 2.5	PASS
		3.8V	40	0.002853	± 2.5	PASS
		3.8V	50	0.001524	± 2.5	PASS

Channel Bandwidth: 10 MHz

Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	3.6	25	-0.002234	± 2.5	PASS
		3.8V	25	-0.002553	± 2.5	PASS
		4.2	25	-0.002615	± 2.5	PASS
	MCH	3.6	25	-0.001935	± 2.5	PASS

	HCH	3.8V	25	-0.001815	± 2.5	PASS
		4.2	25	-0.002370	± 2.5	PASS
		3.6	25	-0.000864	± 2.5	PASS
		3.8V	25	-0.000498	± 2.5	PASS
		4.2	25	-0.001334	± 2.5	PASS
16QAM	LCH	3.6	25	0.001731	± 2.5	PASS
		3.8V	25	0.001397	± 2.5	PASS
		4.2	25	0.001365	± 2.5	PASS
	MCH	3.6	25	-0.001685	± 2.5	PASS
		3.8V	25	-0.000177	± 2.5	PASS
		4.2	25	-0.000954	± 2.5	PASS
	HCH	3.6	25	0.002054	± 2.5	PASS
		3.8V	25	0.001954	± 2.5	PASS
		4.2	25	0.001734	± 2.5	PASS
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (ppm)	Limit (ppm)	Verdict
16QAM	LCH	3.8V	-30	0.003541	± 2.5	PASS
		3.8V	-20	0.003045	± 2.5	PASS
		3.8V	-10	0.002743	± 2.5	PASS
		3.8V	0	0.002824	± 2.5	PASS
		3.8V	10	0.002985	± 2.5	PASS
		3.8V	20	0.002985	± 2.5	PASS
		3.8V	30	0.001098	± 2.5	PASS
		3.8V	40	0.002484	± 2.5	PASS
		3.8V	50	0.001611	± 2.5	PASS
	MCH	3.8V	-30	0.002945	± 2.5	PASS
		3.8V	-20	0.003445	± 2.5	PASS
		3.8V	-10	0.001763	± 2.5	PASS
		3.8V	0	0.002543	± 2.5	PASS
		3.8V	10	0.002845	± 2.5	PASS
		3.8V	20	0.002742	± 2.5	PASS
		3.8V	30	0.000657	± 2.5	PASS
		3.8V	40	0.001368	± 2.5	PASS
		3.8V	50	0.001330	± 2.5	PASS
	HCH	3.8V	-30	0.003234	± 2.5	PASS
		3.8V	-20	0.003386	± 2.5	PASS
		3.8V	-10	0.003043	± 2.5	PASS
		3.8V	0	0.002943	± 2.5	PASS
		3.8V	10	0.003134	± 2.5	PASS
		3.8V	20	0.003596	± 2.5	PASS
		3.8V	30	0.002152	± 2.5	PASS
		3.8V	40	0.002055	± 2.5	PASS
		3.8V	50	0.001671	± 2.5	PASS
QPSK	LCH	3.8V	-30	0.002655	± 2.5	PASS
		3.8V	-20	0.002961	± 2.5	PASS
		3.8V	-10	0.002374	± 2.5	PASS
		3.8V	0	0.001872	± 2.5	PASS
		3.8V	10	0.001566	± 2.5	PASS
		3.8V	20	0.001014	± 2.5	PASS

		3.8V	30	0.000788	± 2.5	PASS
		3.8V	40	0.001509	± 2.5	PASS
		3.8V	50	0.001904	± 2.5	PASS
	MCH	3.8V	-30	0.002241	± 2.5	PASS
		3.8V	-20	0.001534	± 2.5	PASS
		3.8V	-10	0.002045	± 2.5	PASS
		3.8V	0	0.003441	± 2.5	PASS
		3.8V	10	0.001335	± 2.5	PASS
		3.8V	20	0.000734	± 2.5	PASS
		3.8V	30	0.000855	± 2.5	PASS
		3.8V	40	0.002025	± 2.5	PASS
		3.8V	50	0.001010	± 2.5	PASS
	HCH	3.8V	-30	0.002431	± 2.5	PASS
		3.8V	-20	0.001634	± 2.5	PASS
		3.8V	-10	0.001564	± 2.5	PASS
		3.8V	0	0.001374	± 2.5	PASS
		3.8V	10	0.001205	± 2.5	PASS
		3.8V	20	0.001576	± 2.5	PASS
		3.8V	30	0.001152	± 2.5	PASS
		3.8V	40	0.001330	± 2.5	PASS
		3.8V	50	0.002001	± 2.5	PASS

Channel Bandwidth: 15 MHz

Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	3.6	25	-0.002324	± 2.5	PASS
		3.8V	25	-0.002110	± 2.5	PASS
		4.2	25	-0.002354	± 2.5	PASS
	MCH	3.6	25	-0.003423	± 2.5	PASS
		3.8V	25	-0.002990	± 2.5	PASS
		4.2	25	-0.002867	± 2.5	PASS
	HCH	3.6	25	-0.003241	± 2.5	PASS
		3.8V	25	-0.000617	± 2.5	PASS
		4.2	25	-0.000587	± 2.5	PASS
16QAM	LCH	3.6	25	0.002154	± 2.5	PASS
		3.8V	25	0.002206	± 2.5	PASS
		4.2	25	0.002064	± 2.5	PASS
	MCH	3.6	25	0.001430	± 2.5	PASS
		3.8V	25	0.000541	± 2.5	PASS
		4.2	25	0.000945	± 2.5	PASS
	HCH	3.6	25	0.002763	± 2.5	PASS
		3.8V	25	0.002104	± 2.5	PASS
		4.2	25	0.002045	± 2.5	PASS
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	3.8V	-30	0.001453	± 2.5	PASS

		3.8V	-20	0.002543	± 2.5	PASS
		3.8V	-10	0.001243	± 2.5	PASS
		3.8V	0	0.001254	± 2.5	PASS
		3.8V	10	0.0001750	± 2.5	PASS
		3.8V	20	0.002045	± 2.5	PASS
		3.8V	30	0.002009	± 2.5	PASS
		3.8V	40	0.001182	± 2.5	PASS
		3.8V	50	0.001142	± 2.5	PASS
	MCH	3.8V	-30	0.003728	± 2.5	PASS
		3.8V	-20	0.002563	± 2.5	PASS
		3.8V	-10	0.002464	± 2.5	PASS
		3.8V	0	0.003248	± 2.5	PASS
		3.8V	10	0.002694	± 2.5	PASS
		3.8V	20	0.002836	± 2.5	PASS
		3.8V	30	0.000965	± 2.5	PASS
		3.8V	40	0.001230	± 2.5	PASS
		3.8V	50	0.001291	± 2.5	PASS
	HCH	3.8V	-30	0.003574	± 2.5	PASS
		3.8V	-20	0.003975	± 2.5	PASS
		3.8V	-10	0.003806	± 2.5	PASS
		3.8V	0	0.002789	± 2.5	PASS
		3.8V	10	0.003314	± 2.5	PASS
		3.8V	20	0.003649	± 2.5	PASS
		3.8V	30	0.002441	± 2.5	PASS
		3.8V	40	0.002274	± 2.5	PASS
QPSK	LCH	3.8V	50	0.002127	± 2.5	PASS
		3.8V	-30	0.001573	± 2.5	PASS
		3.8V	-20	0.002631	± 2.5	PASS
		3.8V	-10	0.001964	± 2.5	PASS
		3.8V	0	0.002434	± 2.5	PASS
		3.8V	10	0.001436	± 2.5	PASS
		3.8V	20	0.001407	± 2.5	PASS
		3.8V	30	0.001339	± 2.5	PASS
	MCH	3.8V	40	0.002161	± 2.5	PASS
		3.8V	50	0.001536	± 2.5	PASS
		3.8V	-30	0.001432	± 2.5	PASS
		3.8V	-20	0.002044	± 2.5	PASS
		3.8V	-10	0.002137	± 2.5	PASS
		3.8V	0	0.001304	± 2.5	PASS
		3.8V	10	0.002434	± 2.5	PASS
		3.8V	20	0.000739	± 2.5	PASS
	HCH	3.8V	30	0.001010	± 2.5	PASS
		3.8V	40	0.000695	± 2.5	PASS
		3.8V	50	0.000783	± 2.5	PASS
		3.8V	-30	0.002374	± 2.5	PASS
		3.8V	-20	0.002373	± 2.5	PASS
		3.8V	-10	0.003237	± 2.5	PASS
		3.8V	0	0.002424	± 2.5	PASS
		3.8V	10	0.002642	± 2.5	PASS

		3.8V	20	0.002809	± 2.5	PASS
		3.8V	30	0.002035	± 2.5	PASS
		3.8V	40	0.002869	± 2.5	PASS
		3.8V	50	0.002517	± 2.5	PASS

Channel Bandwidth: 20 MHz

Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	3.6	25	-0.001763	± 2.5	PASS
		3.8V	25	-0.001388	± 2.5	PASS
		4.2	25	-0.001534	± 2.5	PASS
	MCH	3.6	25	-0.002637	± 2.5	PASS
		3.8V	25	-0.002289	± 2.5	PASS
		4.2	25	-0.002663	± 2.5	PASS
	HCH	3.6	25	-0.001732	± 2.5	PASS
		3.8V	25	-0.000959	± 2.5	PASS
		4.2	25	-0.000824	± 2.5	PASS
16QAM	LCH	3.6	25	0.001777	± 2.5	PASS
		3.8V	25	0.001242	± 2.5	PASS
		4.2	25	0.001375	± 2.5	PASS
	MCH	3.6	25	0.001364	± 2.5	PASS
		3.8V	25	0.001733	± 2.5	PASS
		4.2	25	0.001263	± 2.5	PASS
	HCH	3.6	25	0.002386	± 2.5	PASS
		3.8V	25	0.002232	± 2.5	PASS
		4.2	25	0.002145	± 2.5	PASS
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	3.8V	-30	0.002354	± 2.5	PASS
		3.8V	-20	0.002834	± 2.5	PASS
		3.8V	-10	0.003342	± 2.5	PASS
		3.8V	0	0.003175	± 2.5	PASS
		3.8V	10	0.002643	± 2.5	PASS
		3.8V	20	0.002732	± 2.5	PASS
		3.8V	30	0.001979	± 2.5	PASS
		3.8V	40	0.001759	± 2.5	PASS
		3.8V	50	0.001928	± 2.5	PASS
	MCH	3.8V	-30	0.001276	± 2.5	PASS
		3.8V	-20	0.001867	± 2.5	PASS
		3.8V	-10	0.001373	± 2.5	PASS
		3.8V	0	0.001053	± 2.5	PASS
		3.8V	10	0.002047	± 2.5	PASS
		3.8V	20	0.001545	± 2.5	PASS
		3.8V	30	0.001401	± 2.5	PASS
		3.8V	40	0.000883	± 2.5	PASS
		3.8V	50	0.001605	± 2.5	PASS

	HCH	3.8V	-30	0.003342	± 2.5	PASS
		3.8V	-20	0.003914	± 2.5	PASS
		3.8V	-10	0.003243	± 2.5	PASS
		3.8V	0	0.003053	± 2.5	PASS
		3.8V	10	0.002864	± 2.5	PASS
		3.8V	20	0.003300	± 2.5	PASS
		3.8V	30	0.002373	± 2.5	PASS
		3.8V	40	0.002400	± 2.5	PASS
		3.8V	50	0.002698	± 2.5	PASS
QPSK	LCH	3.8V	-30	0.002534	± 2.5	PASS
		3.8V	-20	0.002043	± 2.5	PASS
		3.8V	-10	0.002934	± 2.5	PASS
		3.8V	0	0.002357	± 2.5	PASS
		3.8V	10	0.002177	± 2.5	PASS
		3.8V	20	0.002029	± 2.5	PASS
		3.8V	30	0.001703	± 2.5	PASS
		3.8V	40	0.001641	± 2.5	PASS
		3.8V	50	0.002231	± 2.5	PASS
	MCH	3.8V	-30	0.001375	± 2.5	PASS
		3.8V	-20	0.001634	± 2.5	PASS
		3.8V	-10	0.001868	± 2.5	PASS
		3.8V	0	0.001904	± 2.5	PASS
		3.8V	10	0.001432	± 2.5	PASS
		3.8V	20	0.001092	± 2.5	PASS
		3.8V	30	0.001401	± 2.5	PASS
		3.8V	40	0.001401	± 2.5	PASS
		3.8V	50	0.001467	± 2.5	PASS
	HCH	3.8V	-30	0.002863	± 2.5	PASS
		3.8V	-20	0.001766	± 2.5	PASS
		3.8V	-10	0.002637	± 2.5	PASS
		3.8V	0	0.002537	± 2.5	PASS
		3.8V	10	0.002234	± 2.5	PASS
		3.8V	20	0.002026	± 2.5	PASS
		3.8V	30	0.002319	± 2.5	PASS
		3.8V	40	0.002173	± 2.5	PASS
		3.8V	50	0.002102	± 2.5	PASS