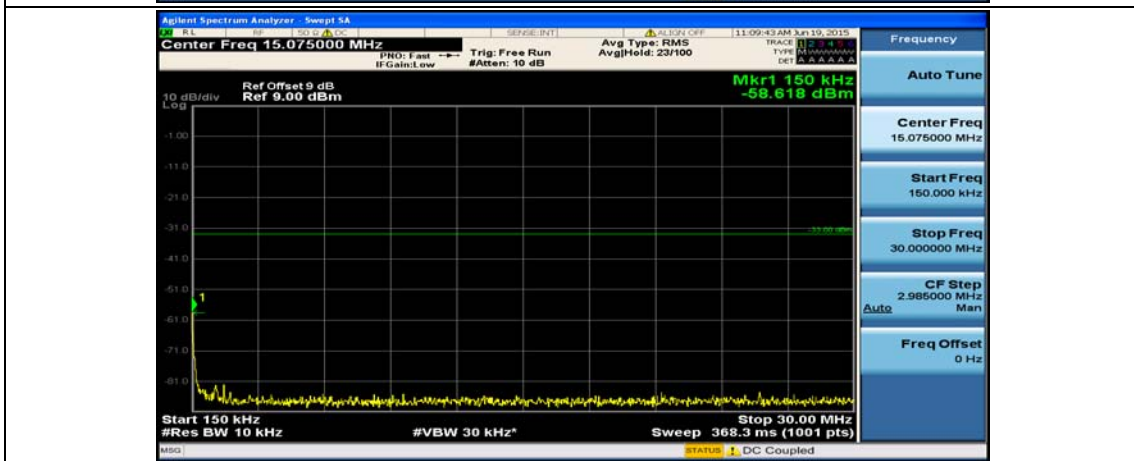
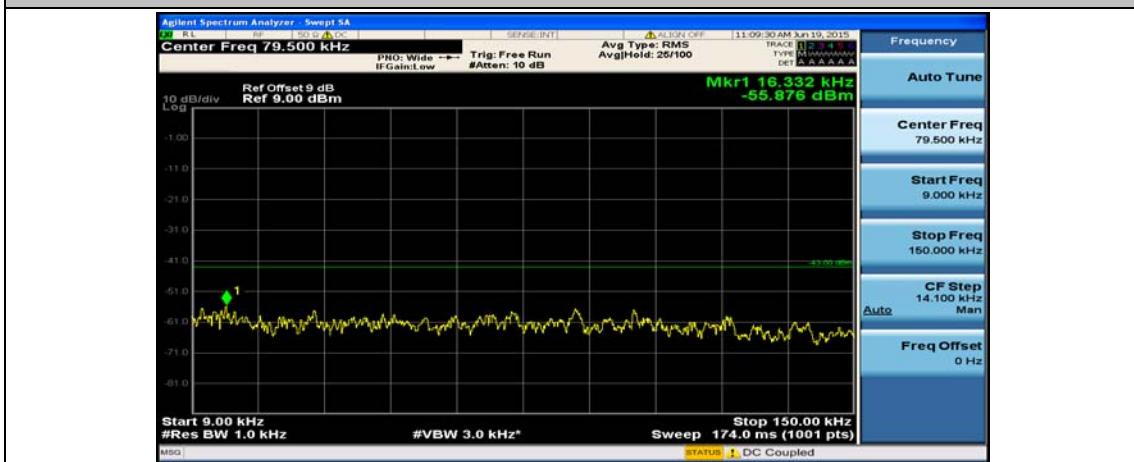
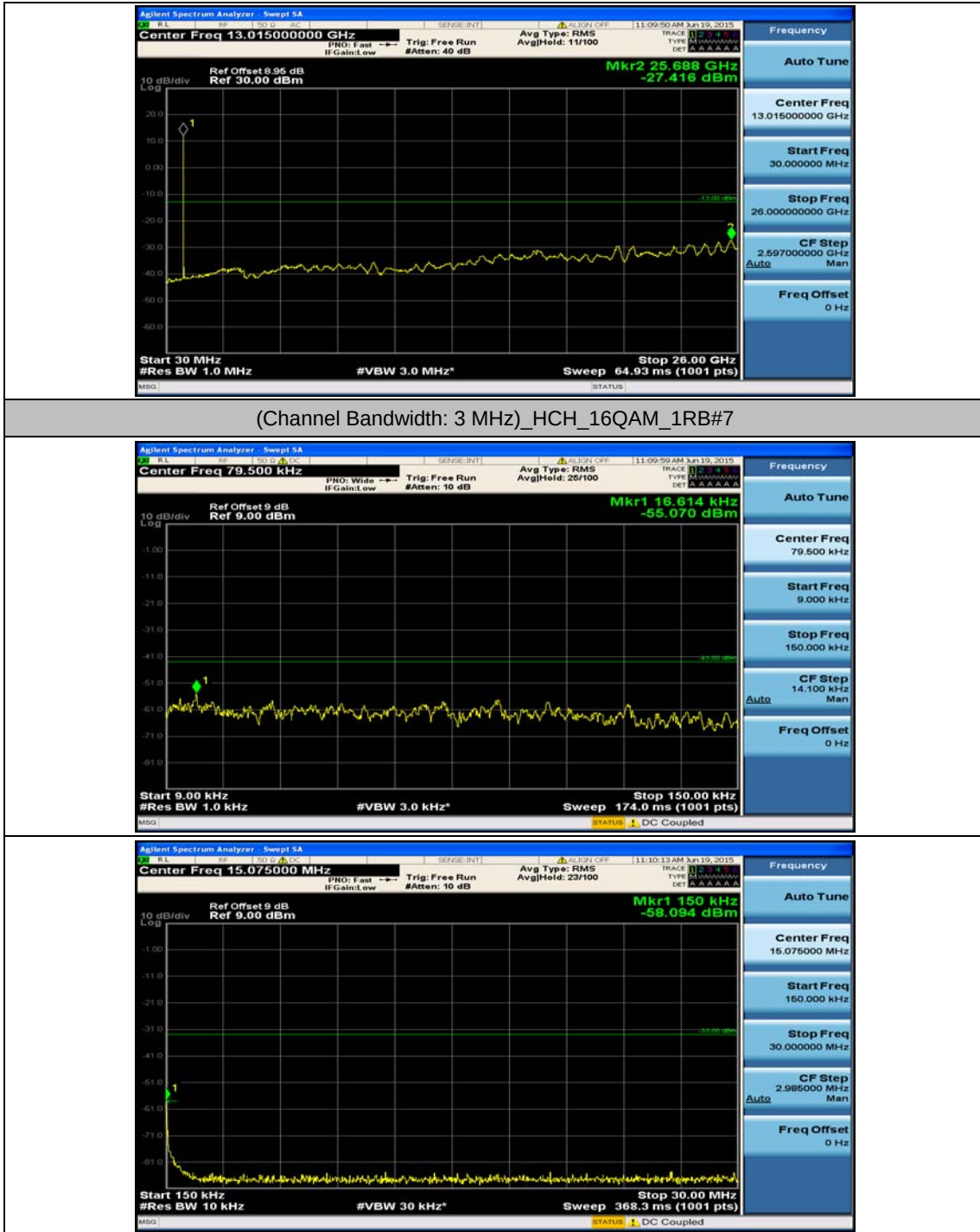




(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#0

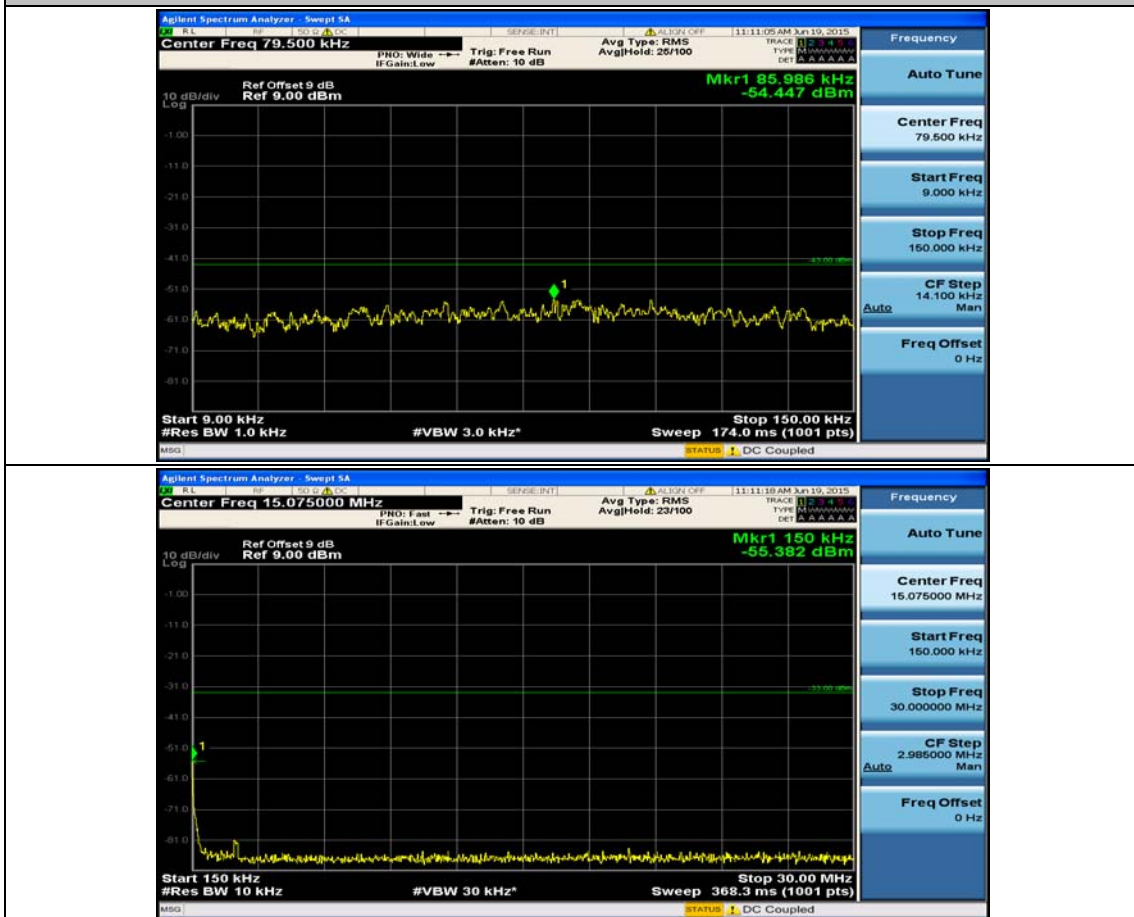


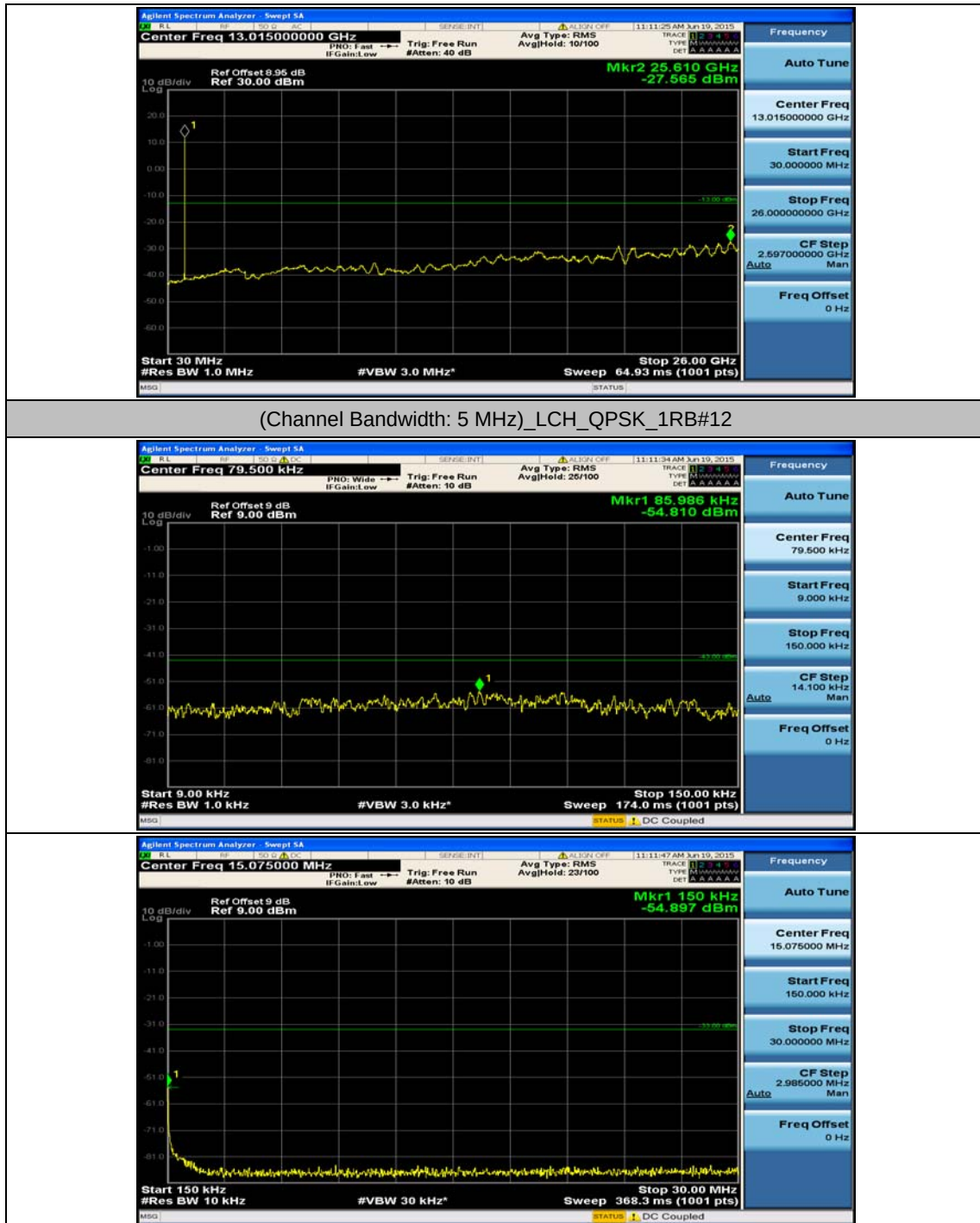


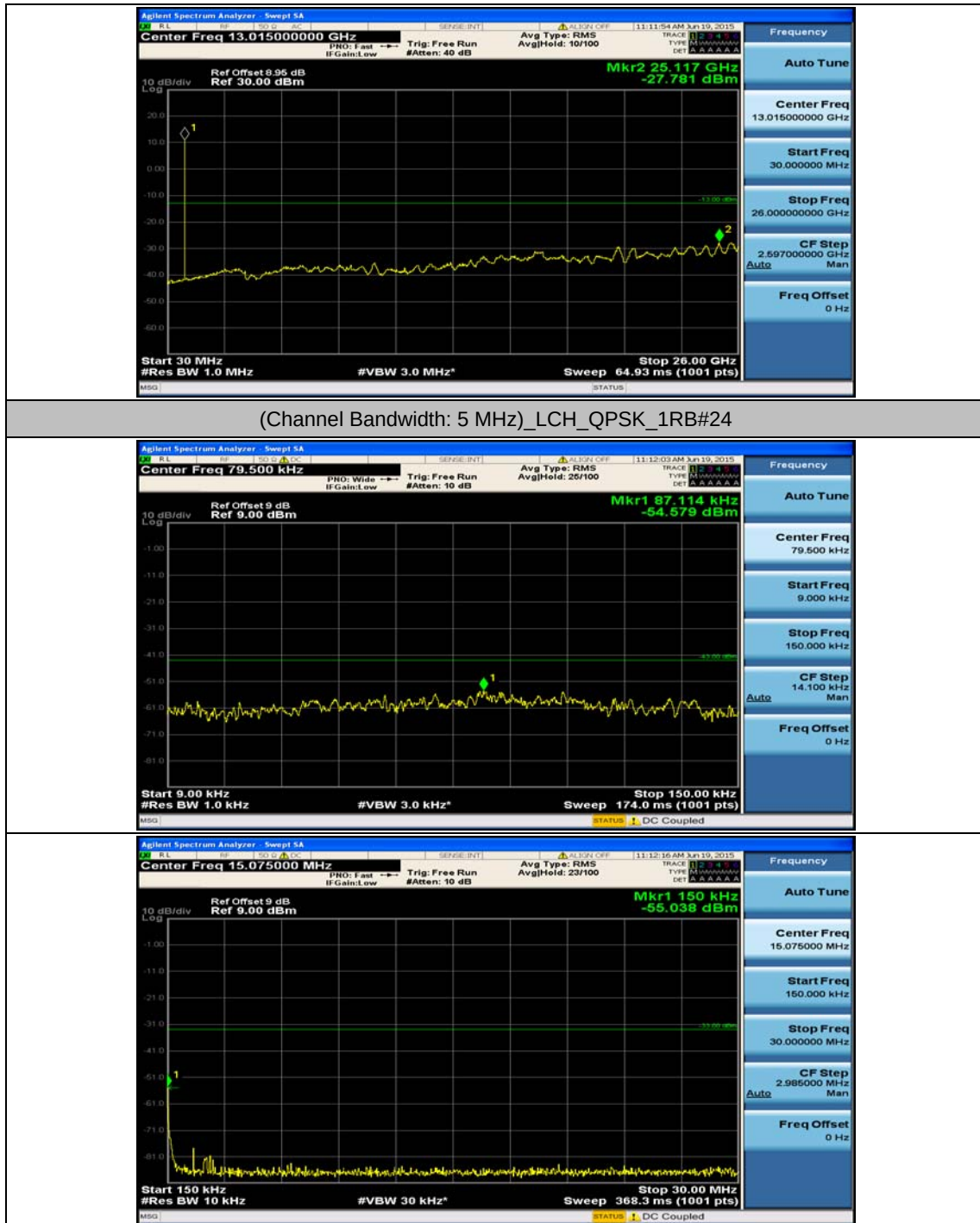


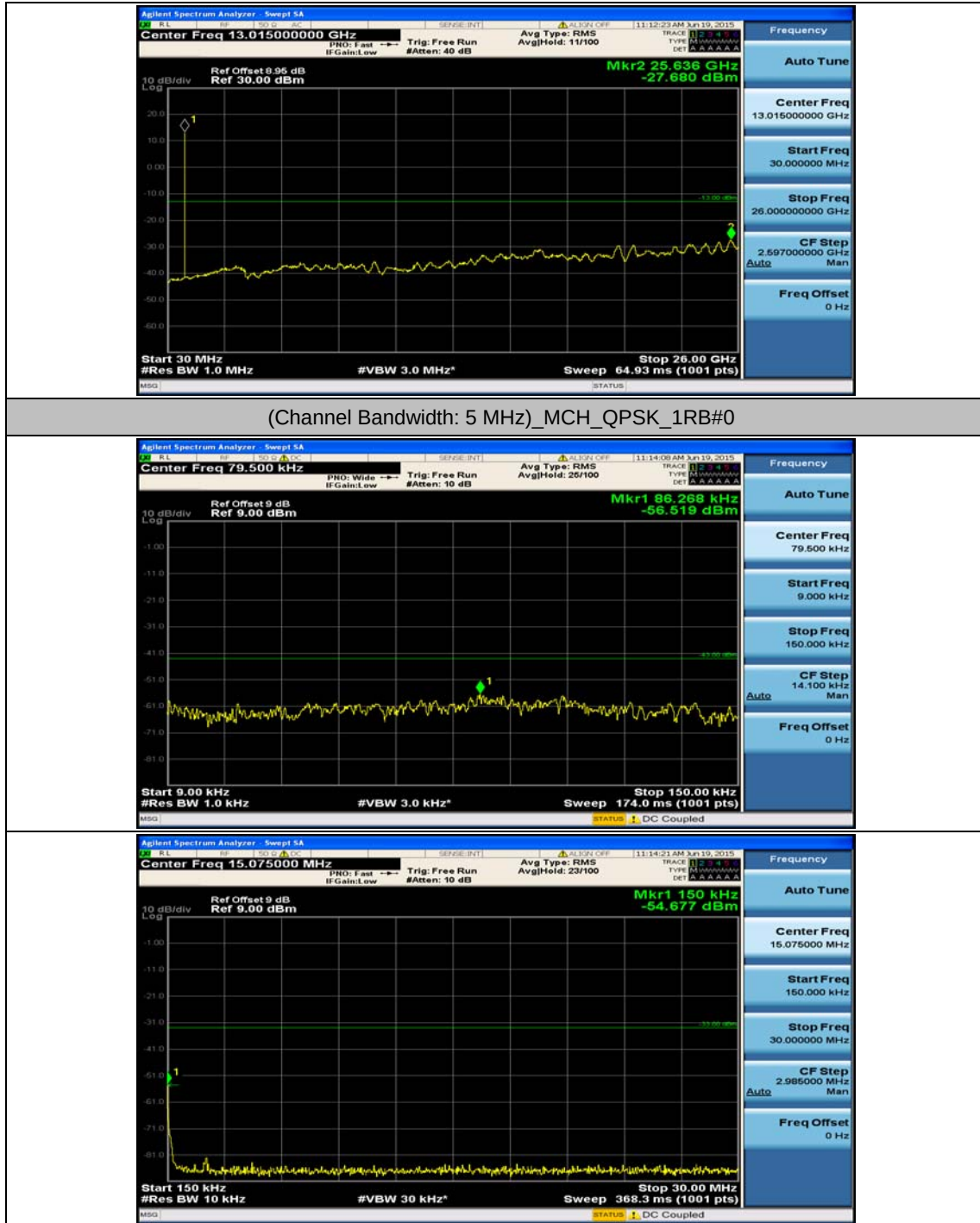
Channel Bandwidth: 5 MHz

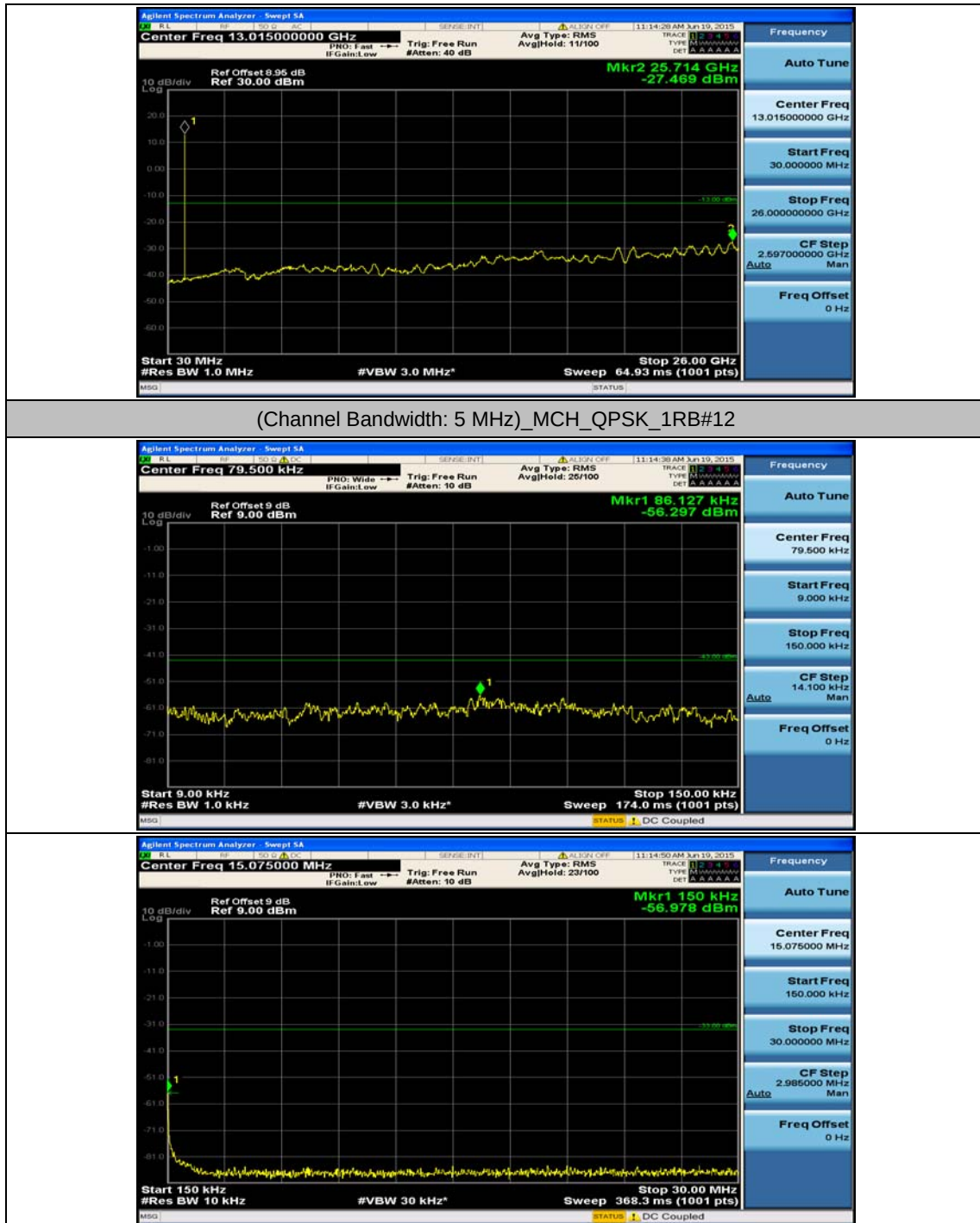
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#0

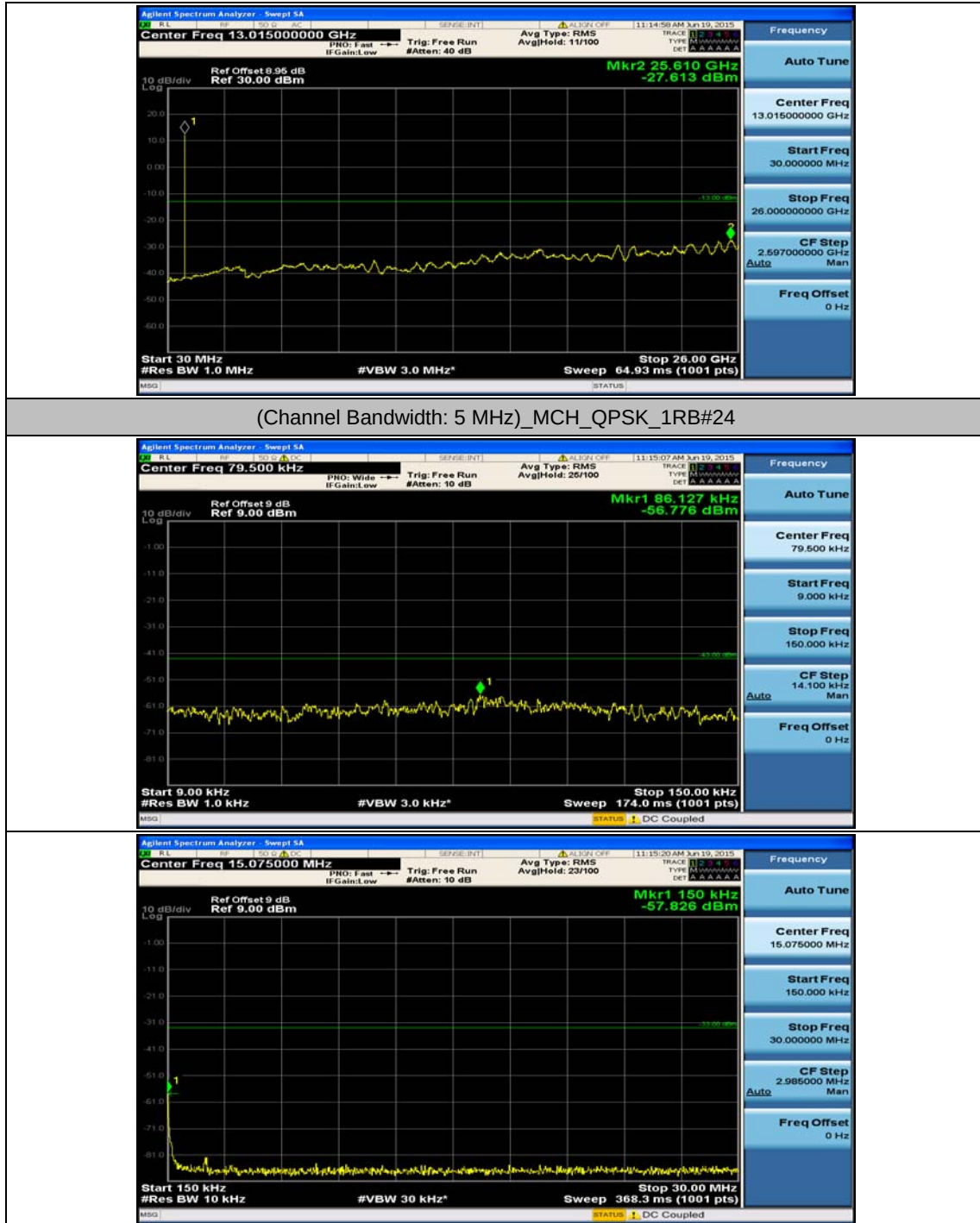






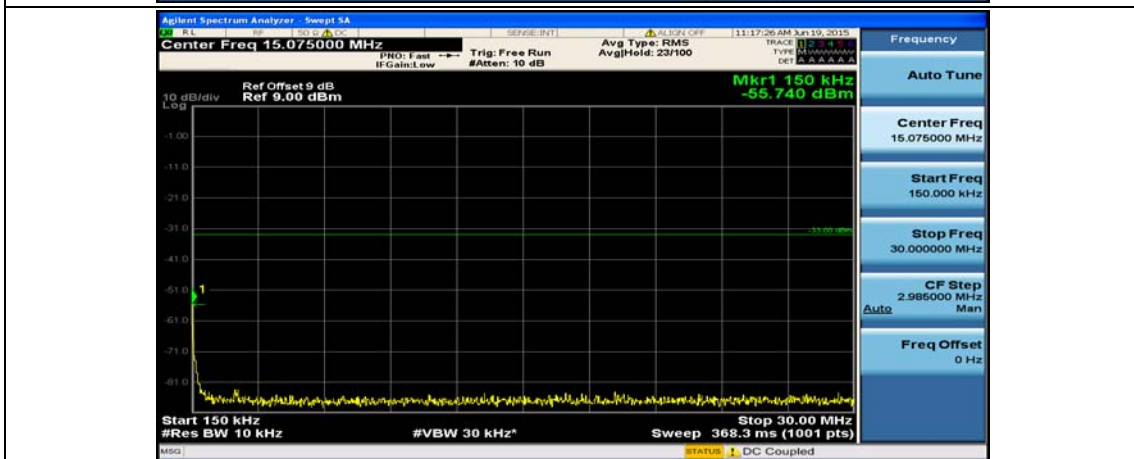
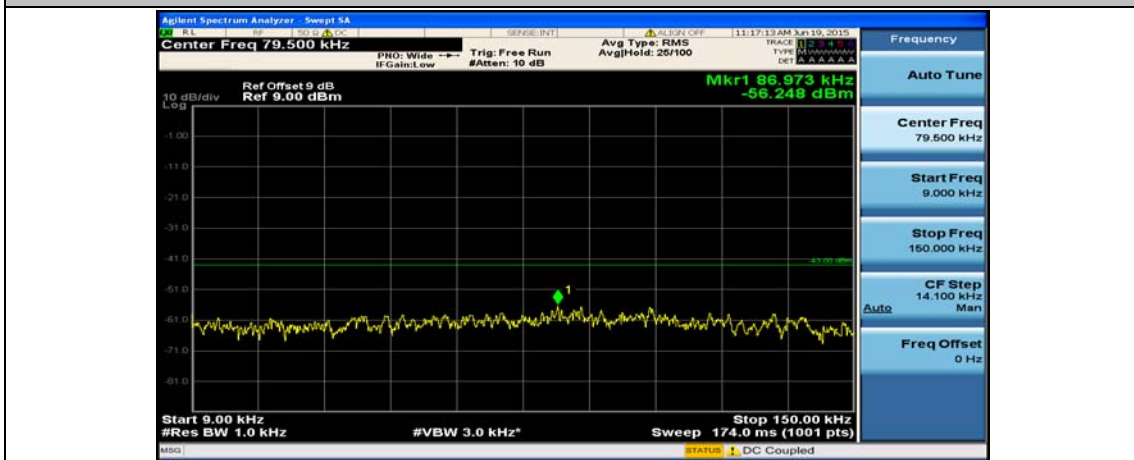


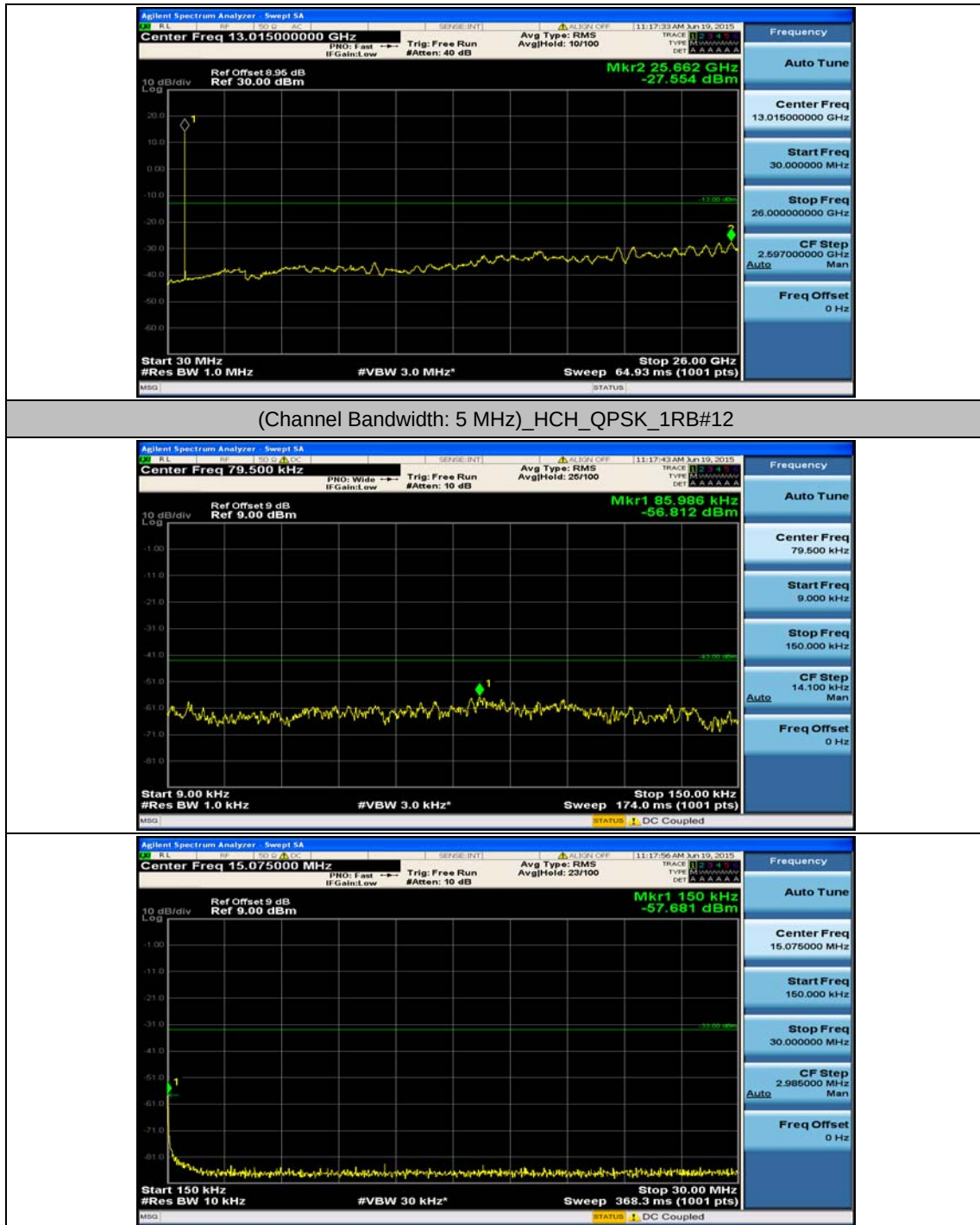


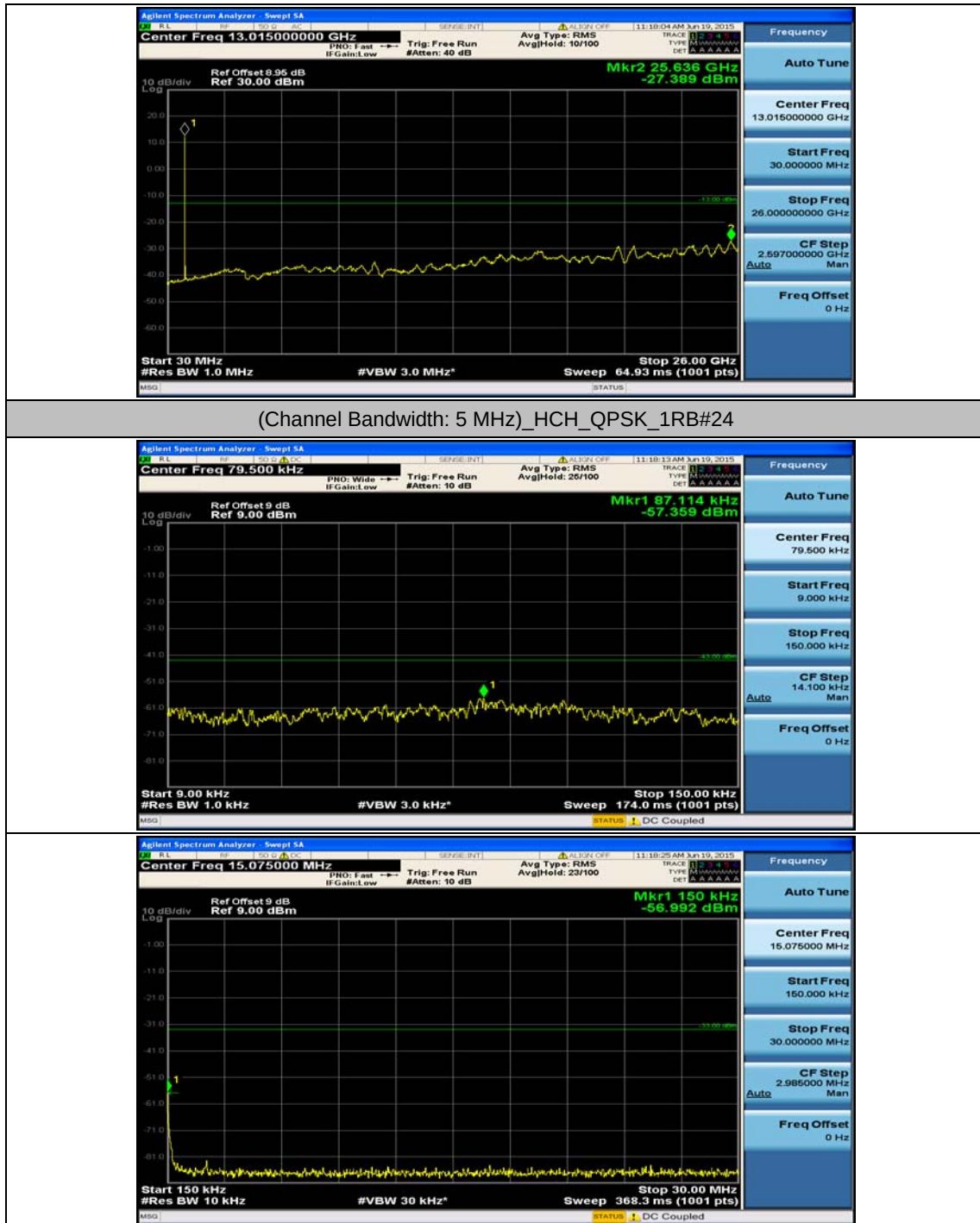


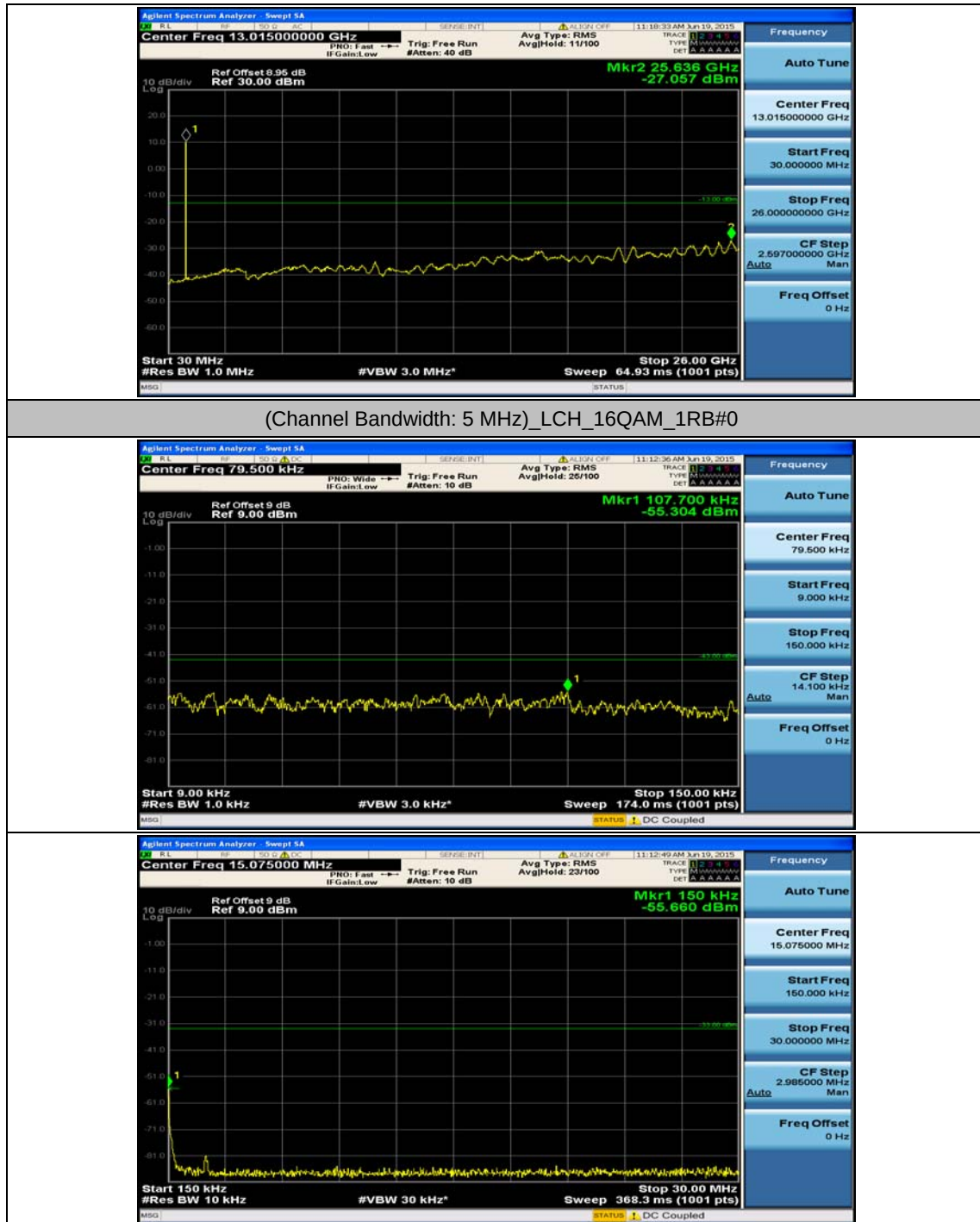


(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#0

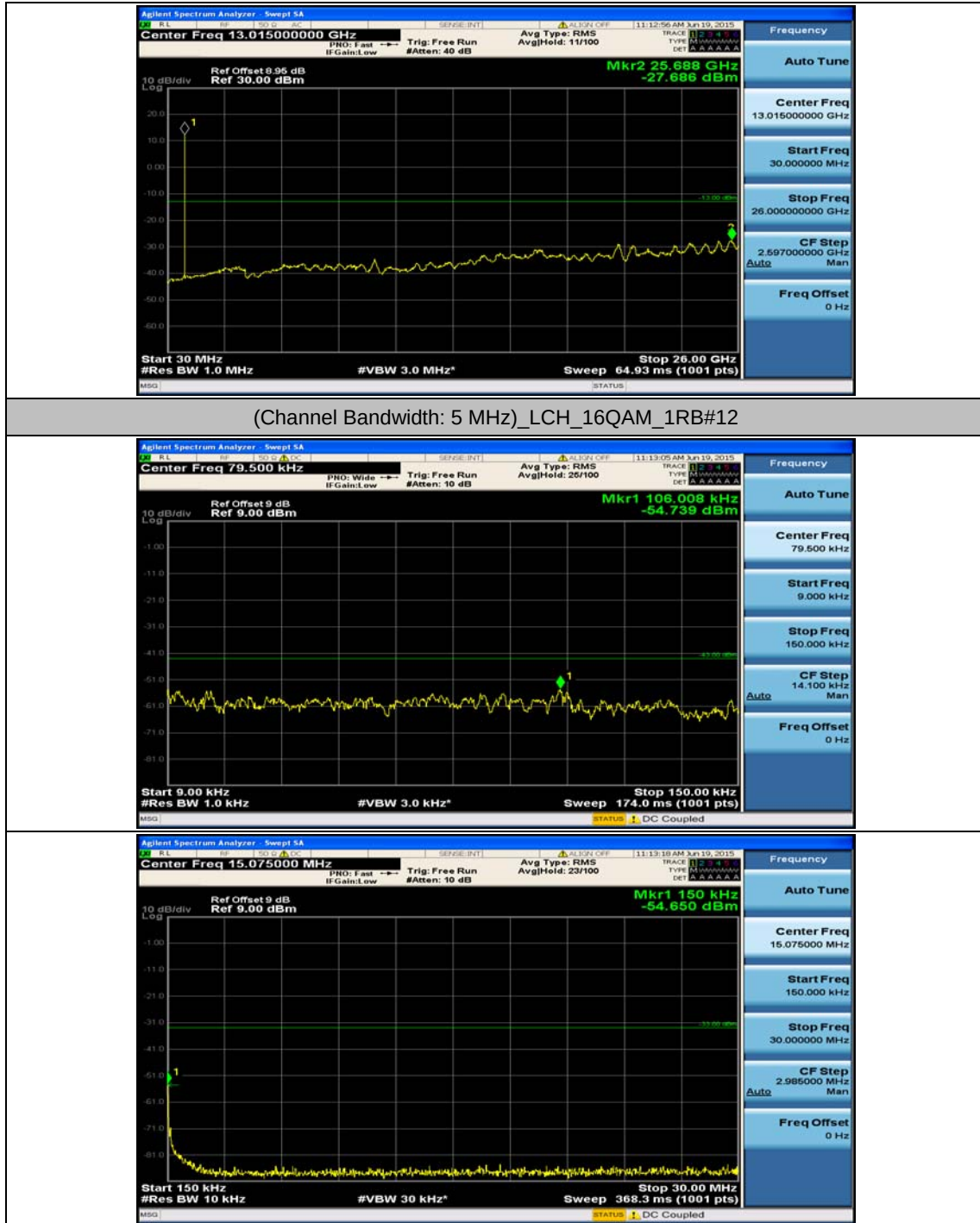


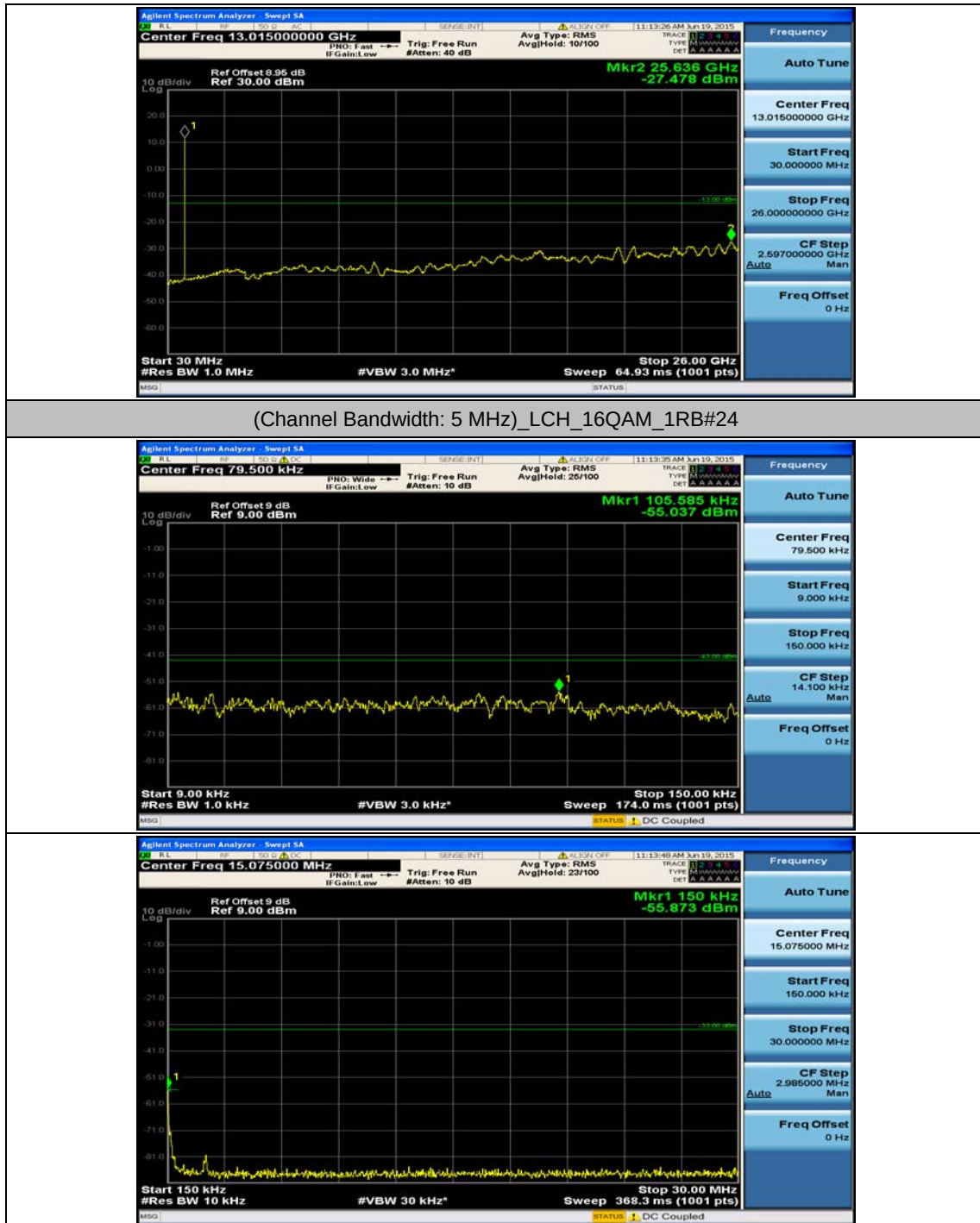




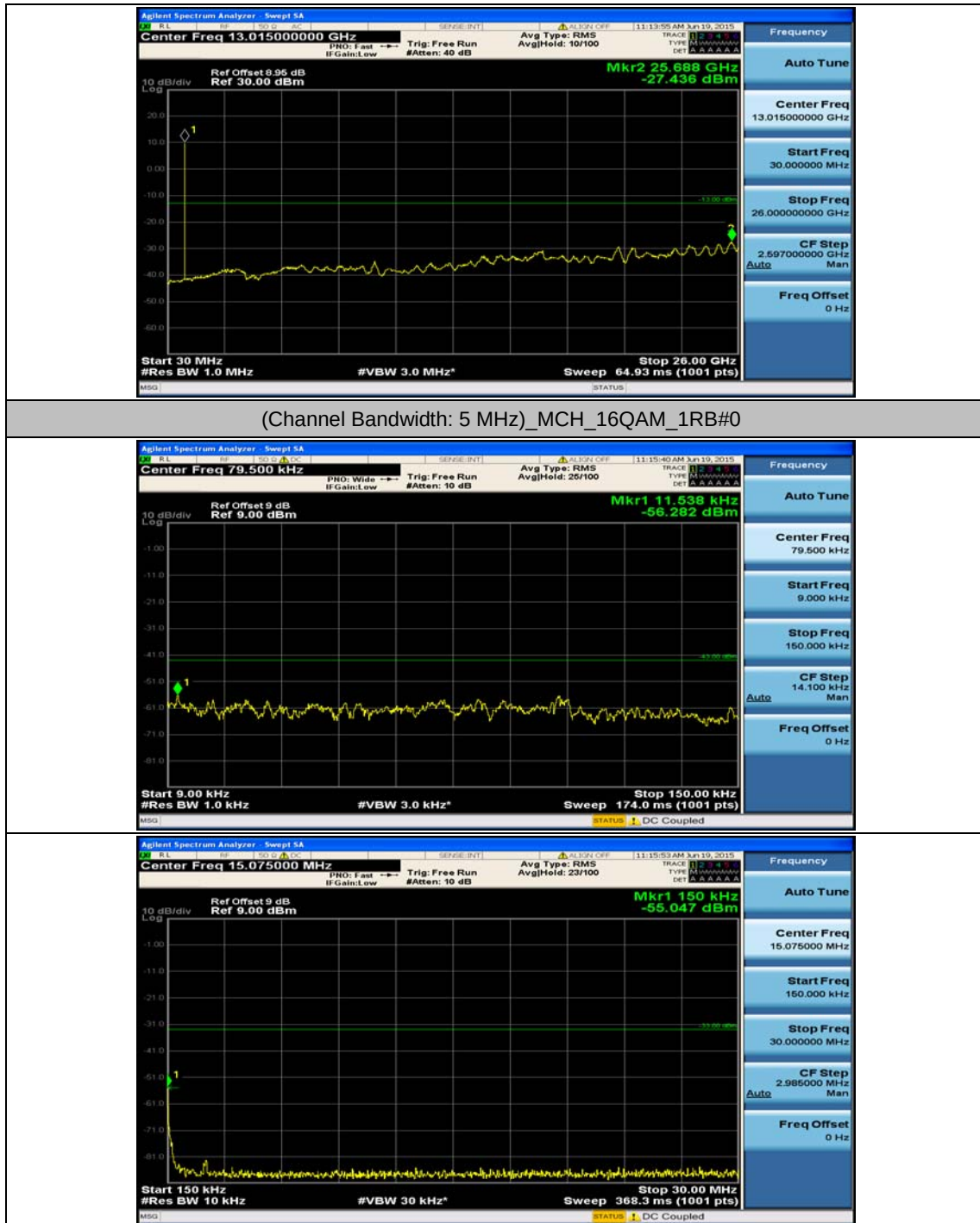


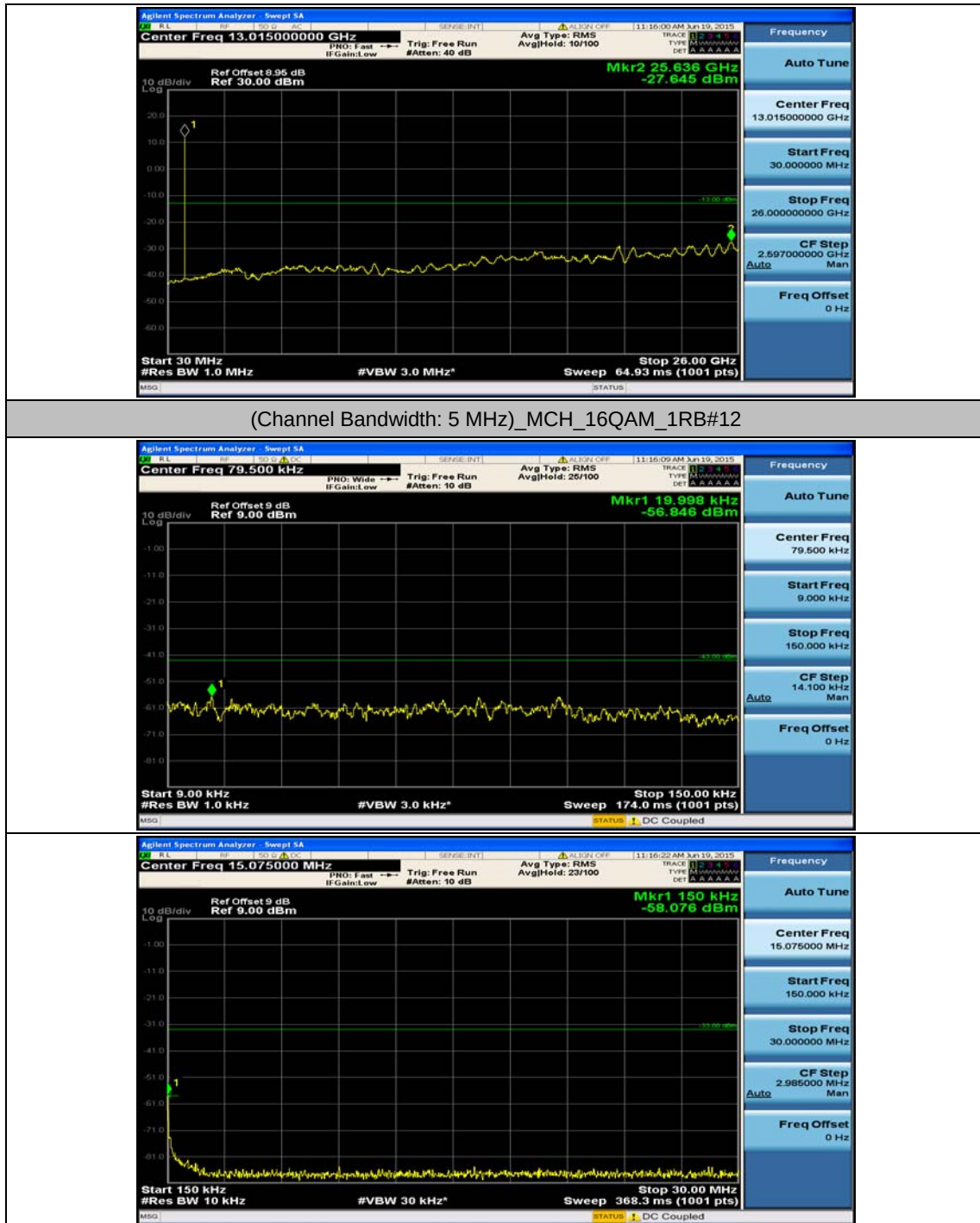
(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#0

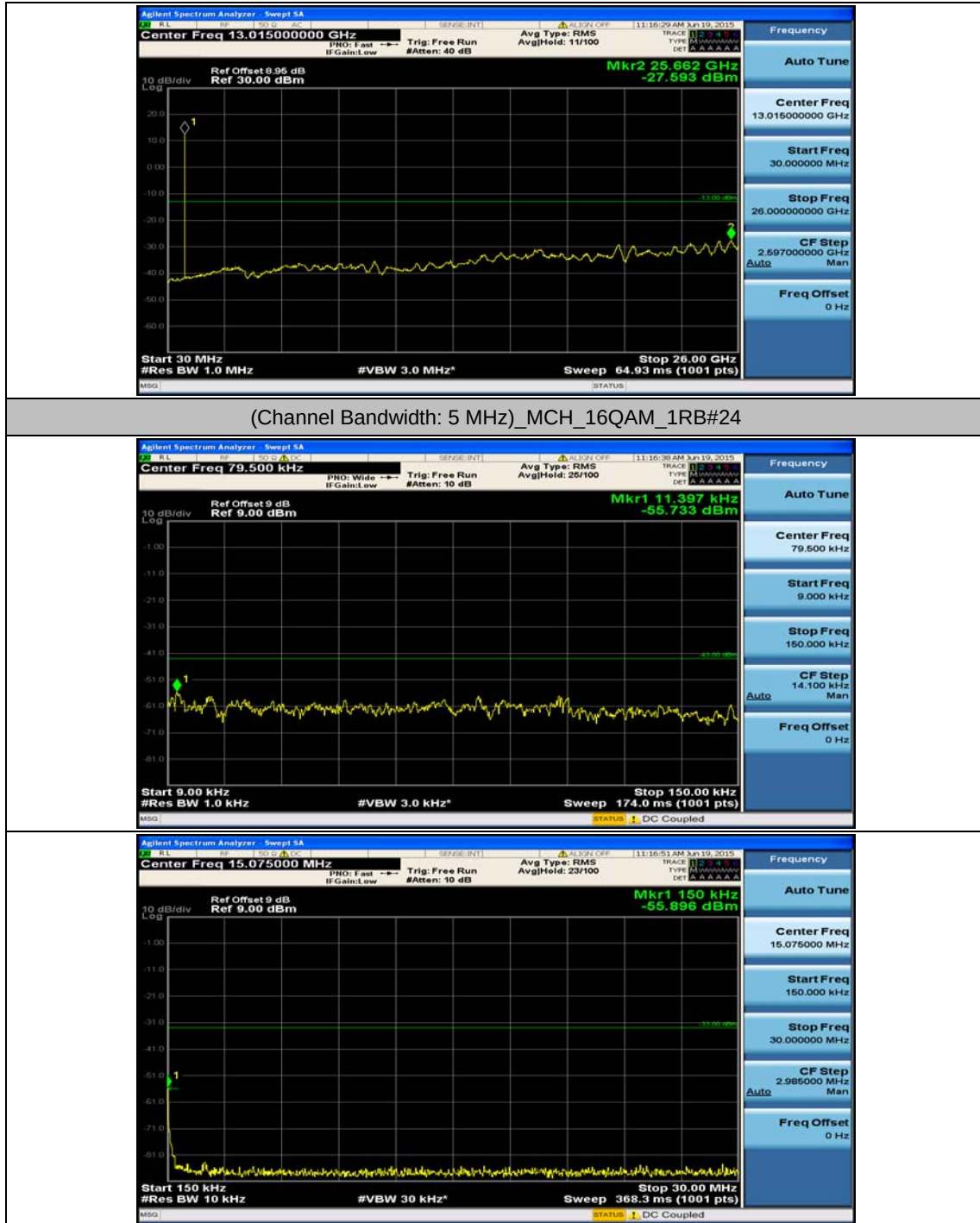


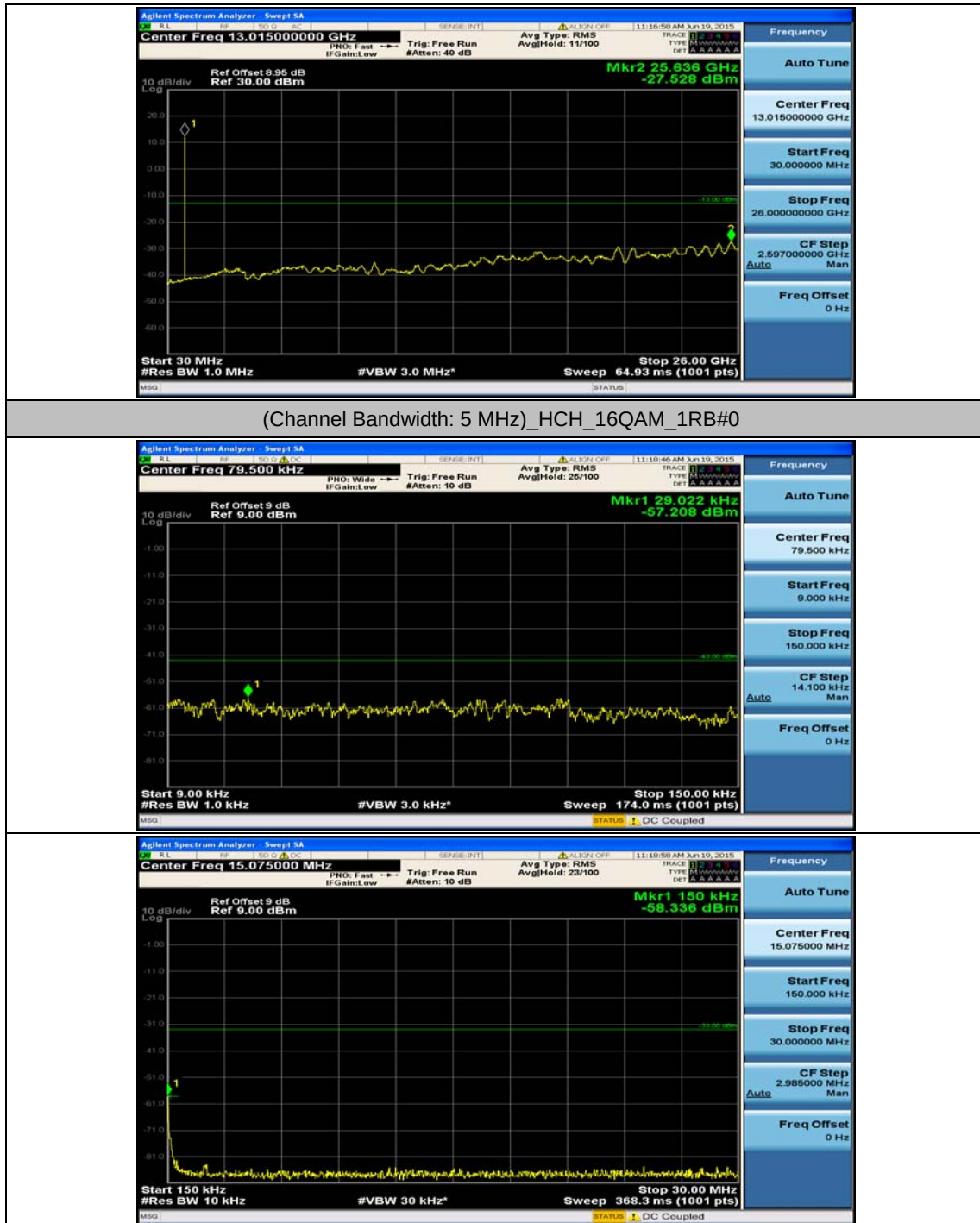


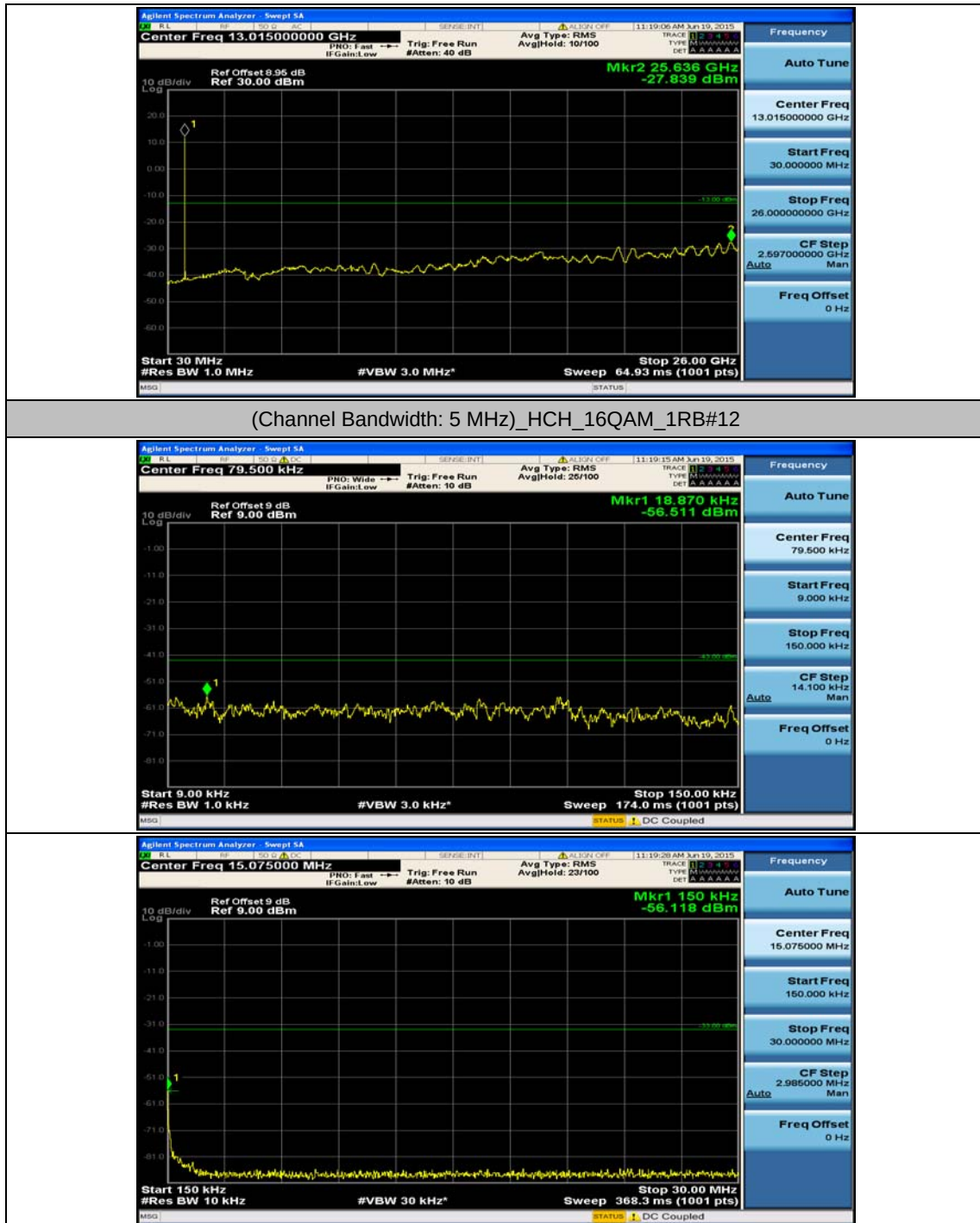
(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#24



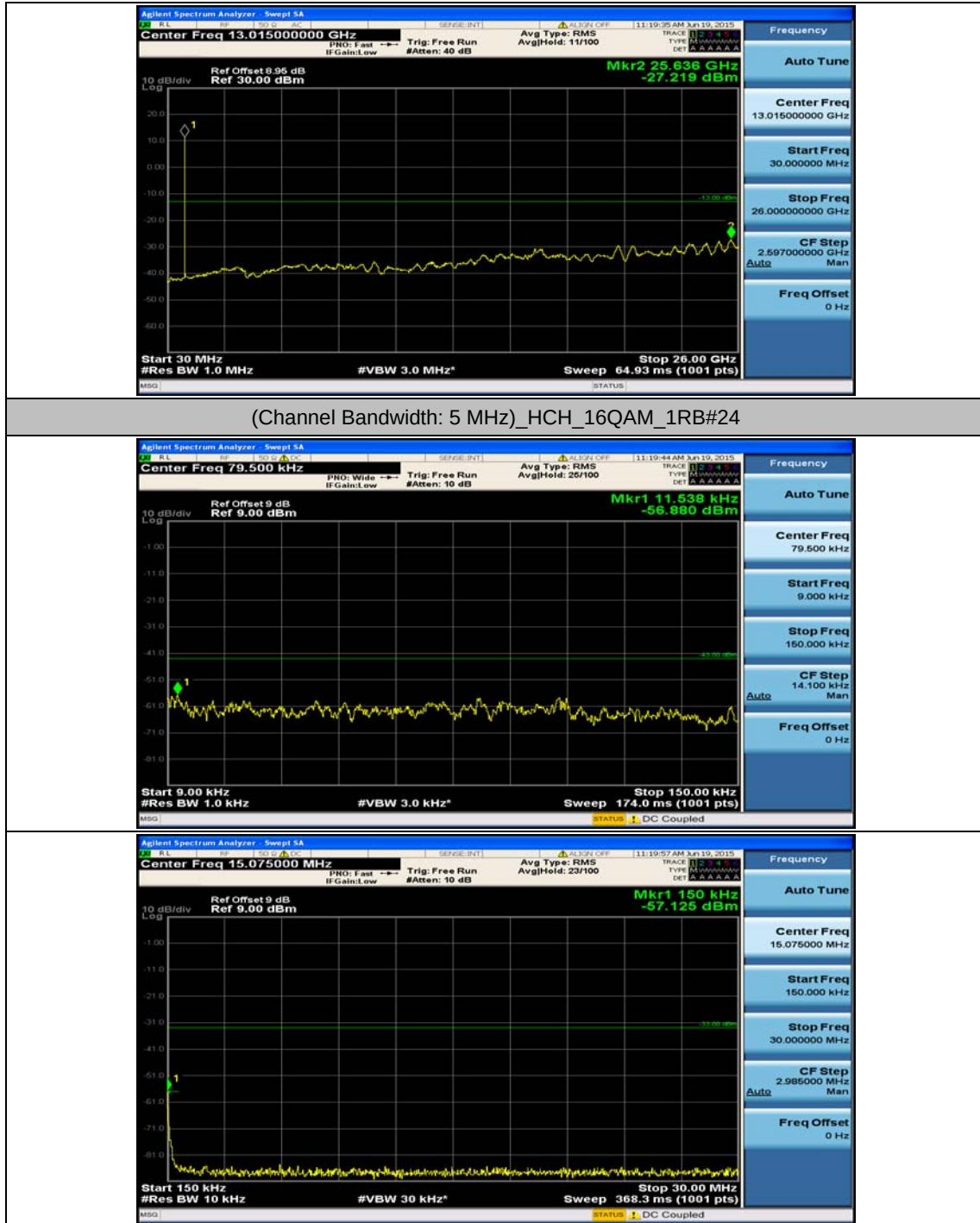






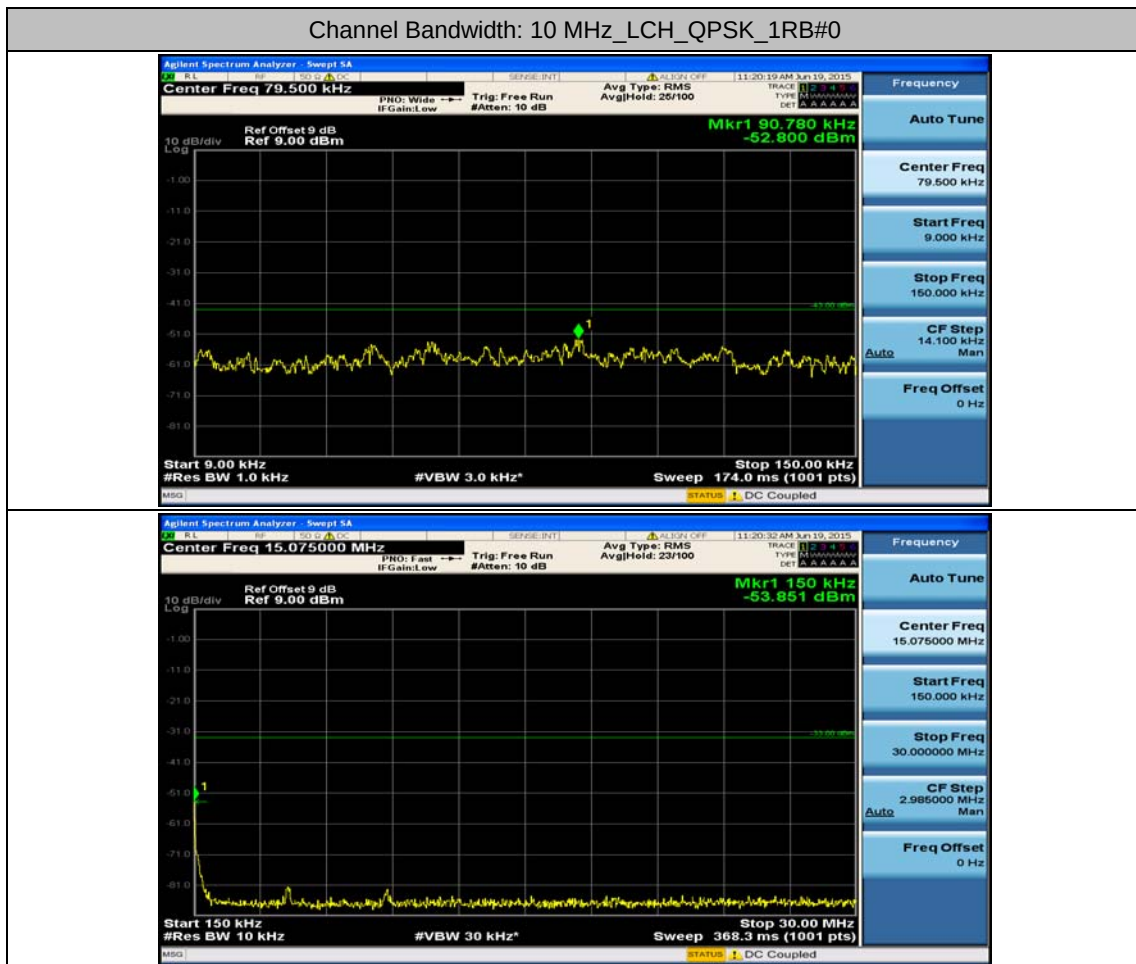


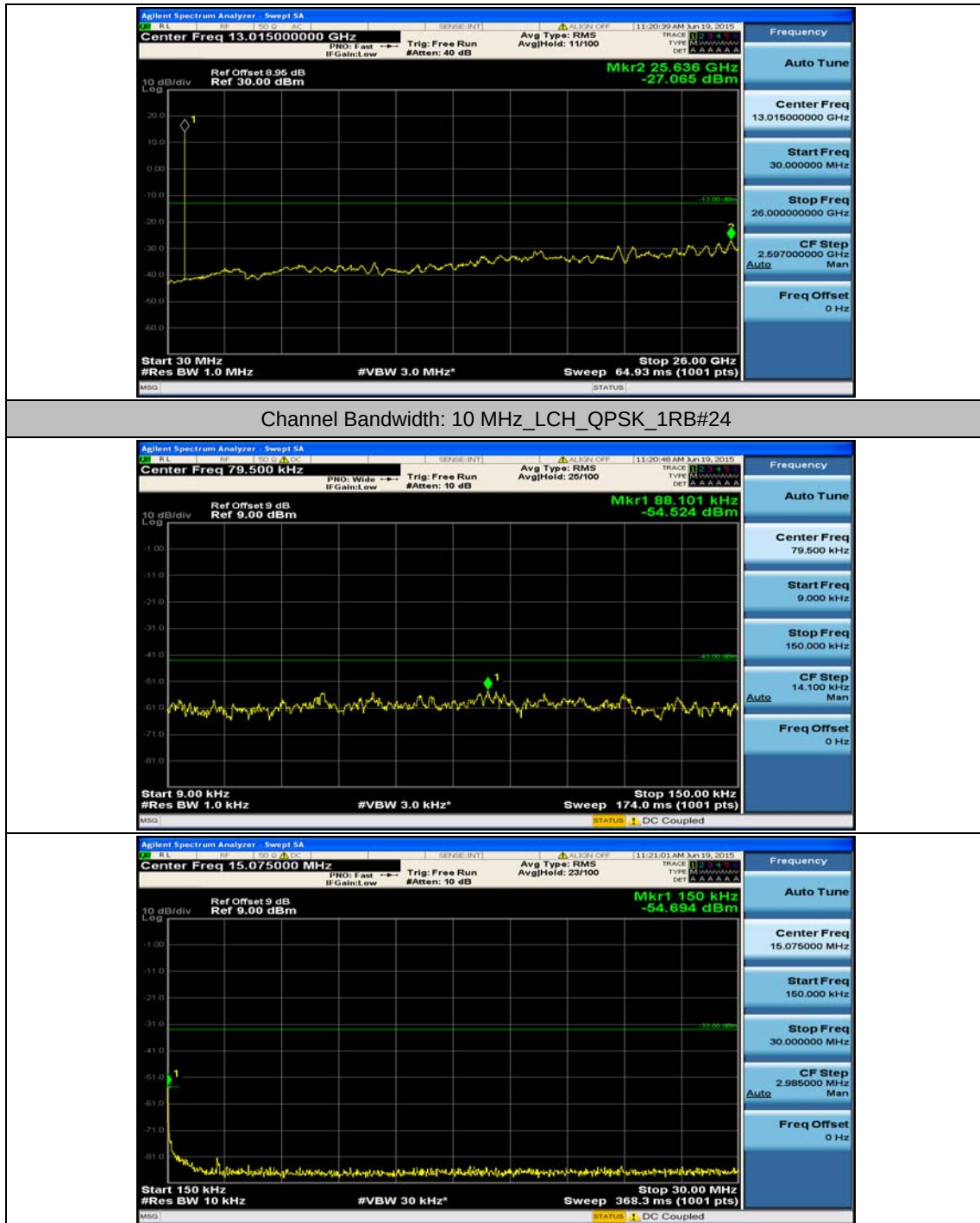
(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#12

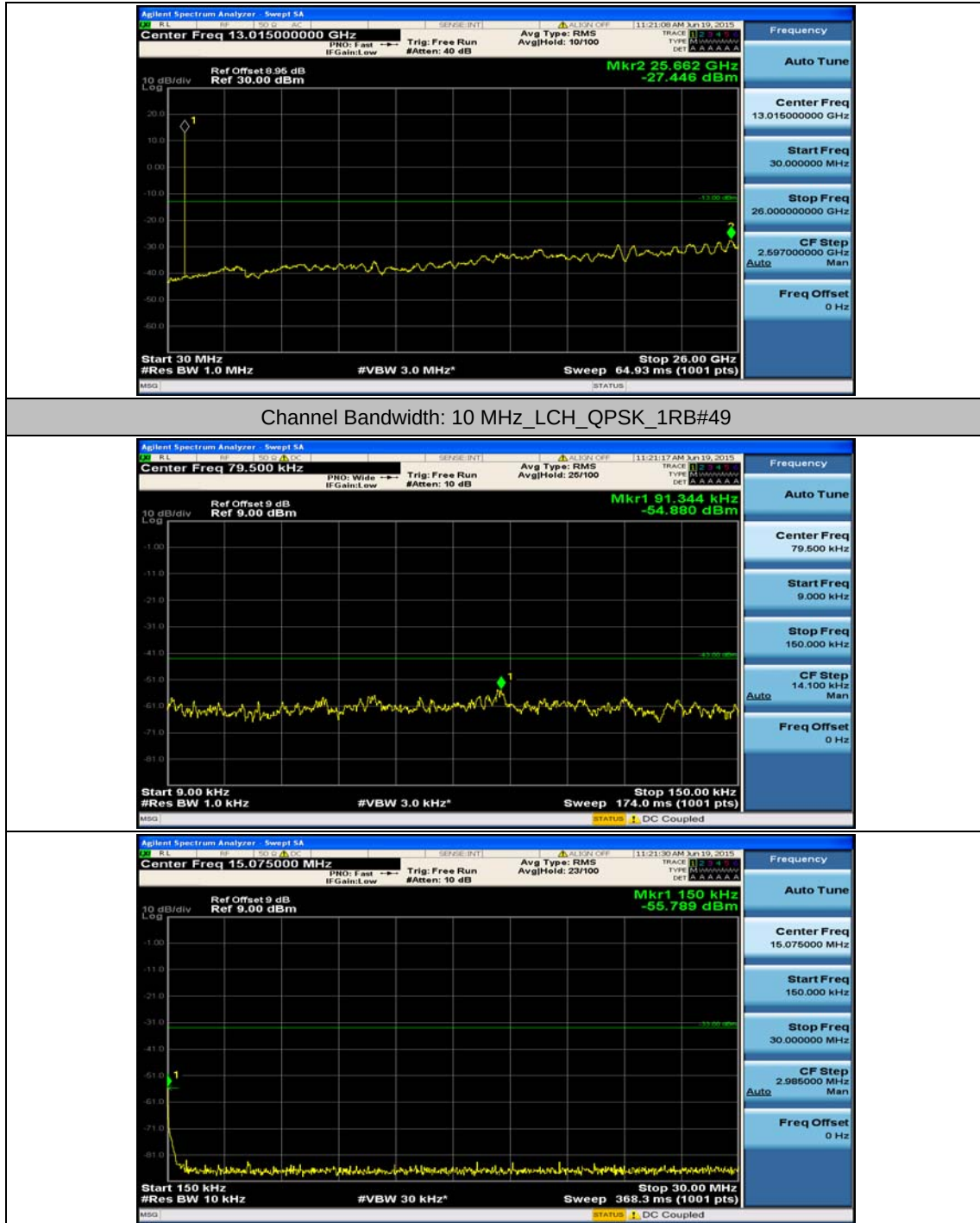




Channel Bandwidth: 10 MHz

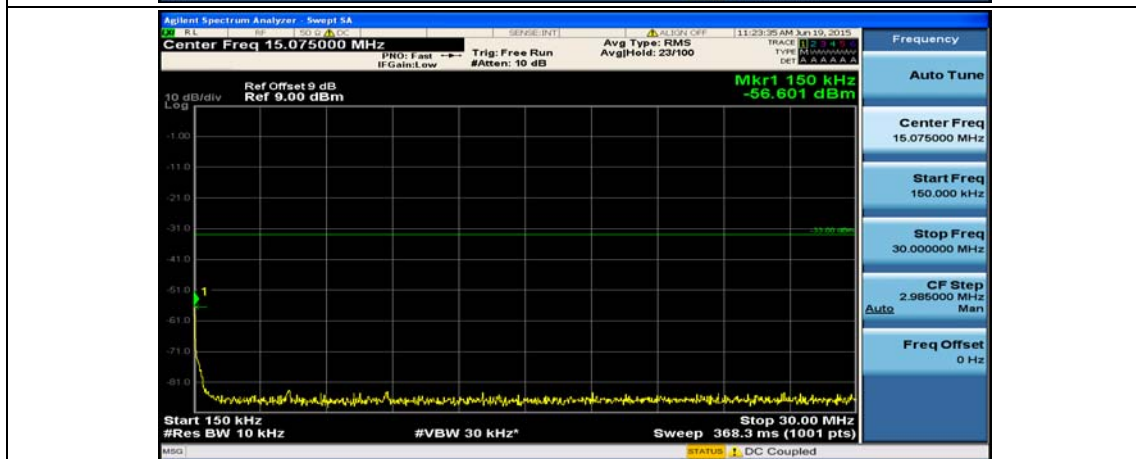
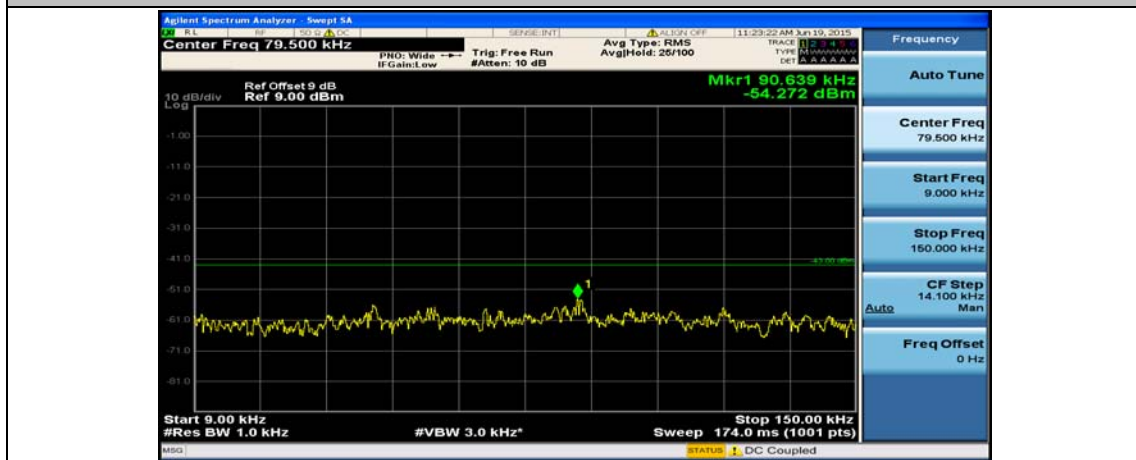


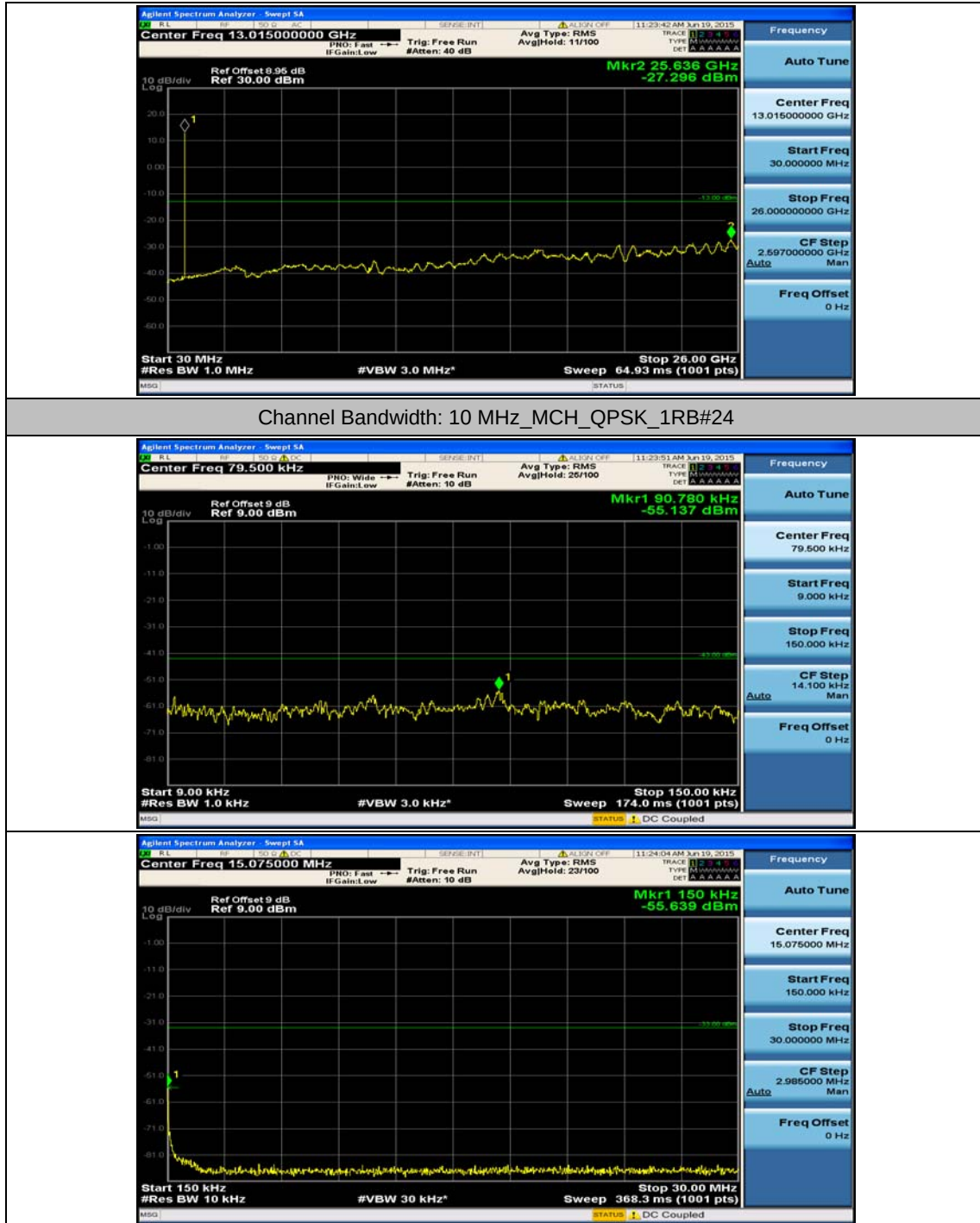


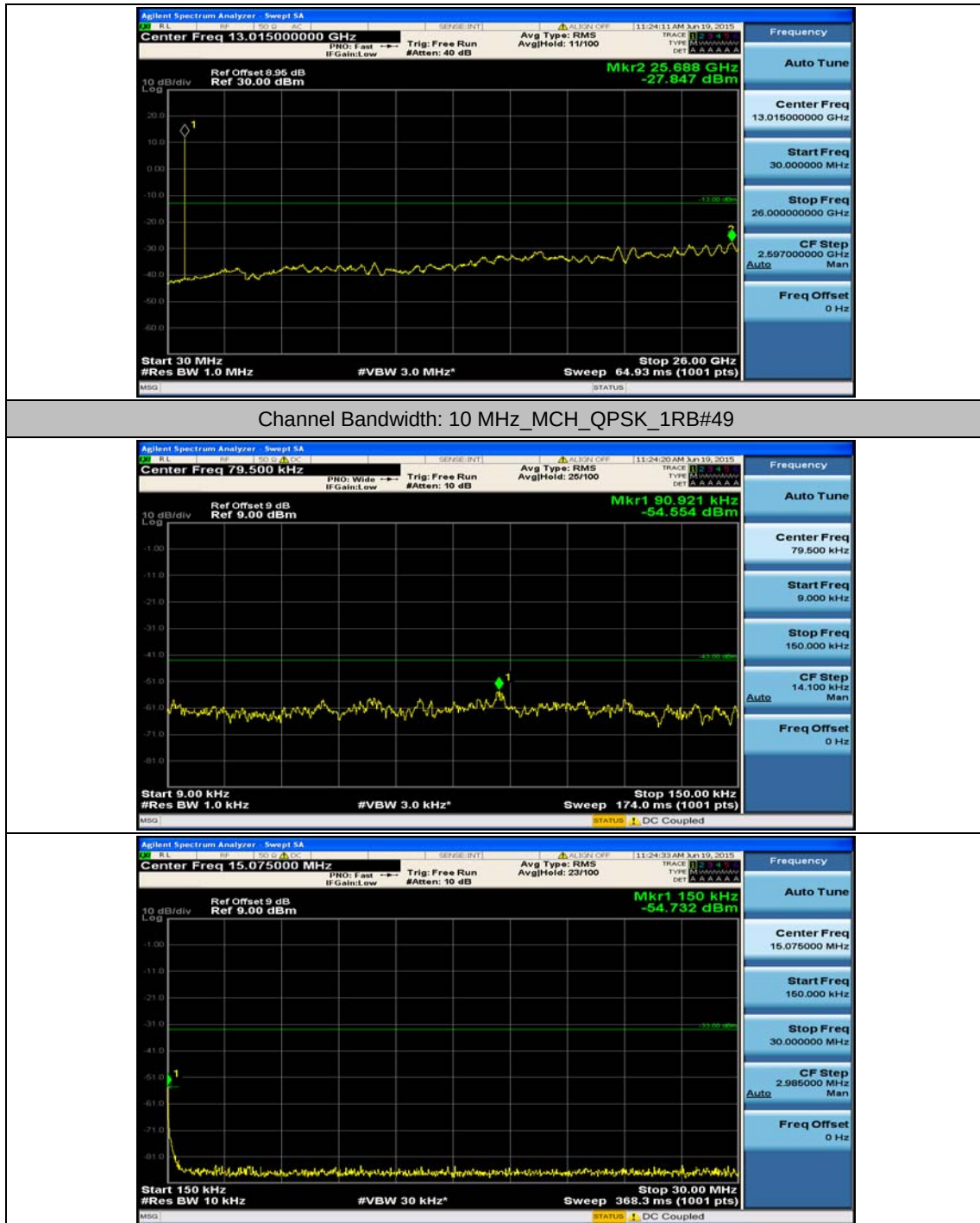




Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#0

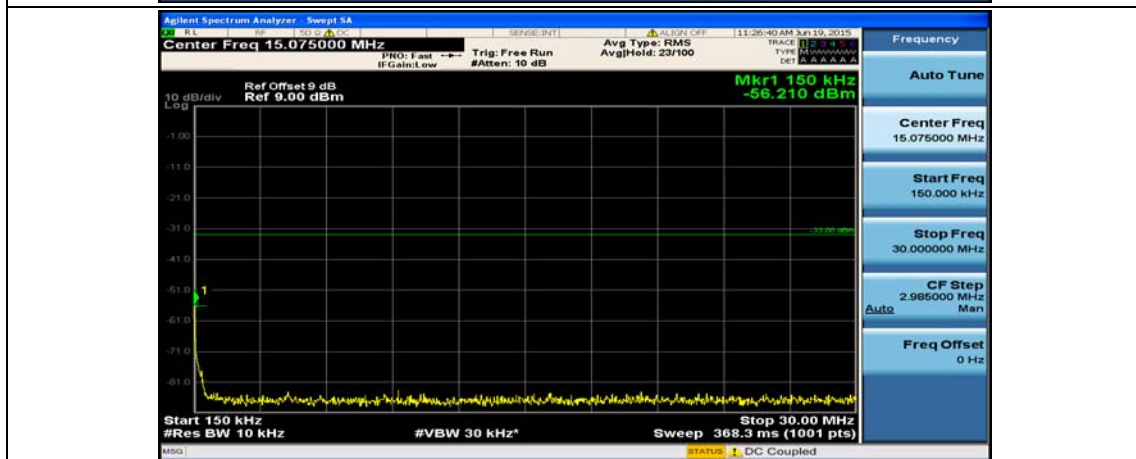
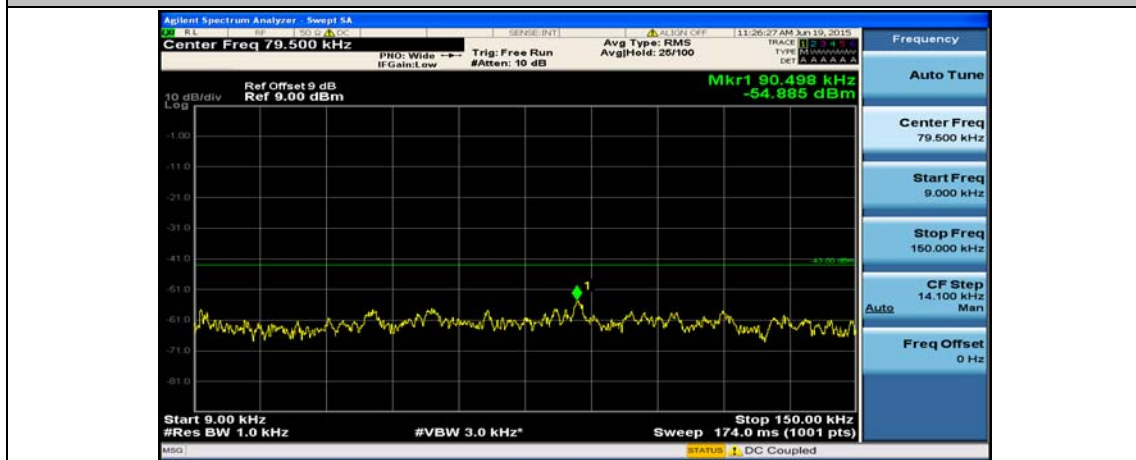


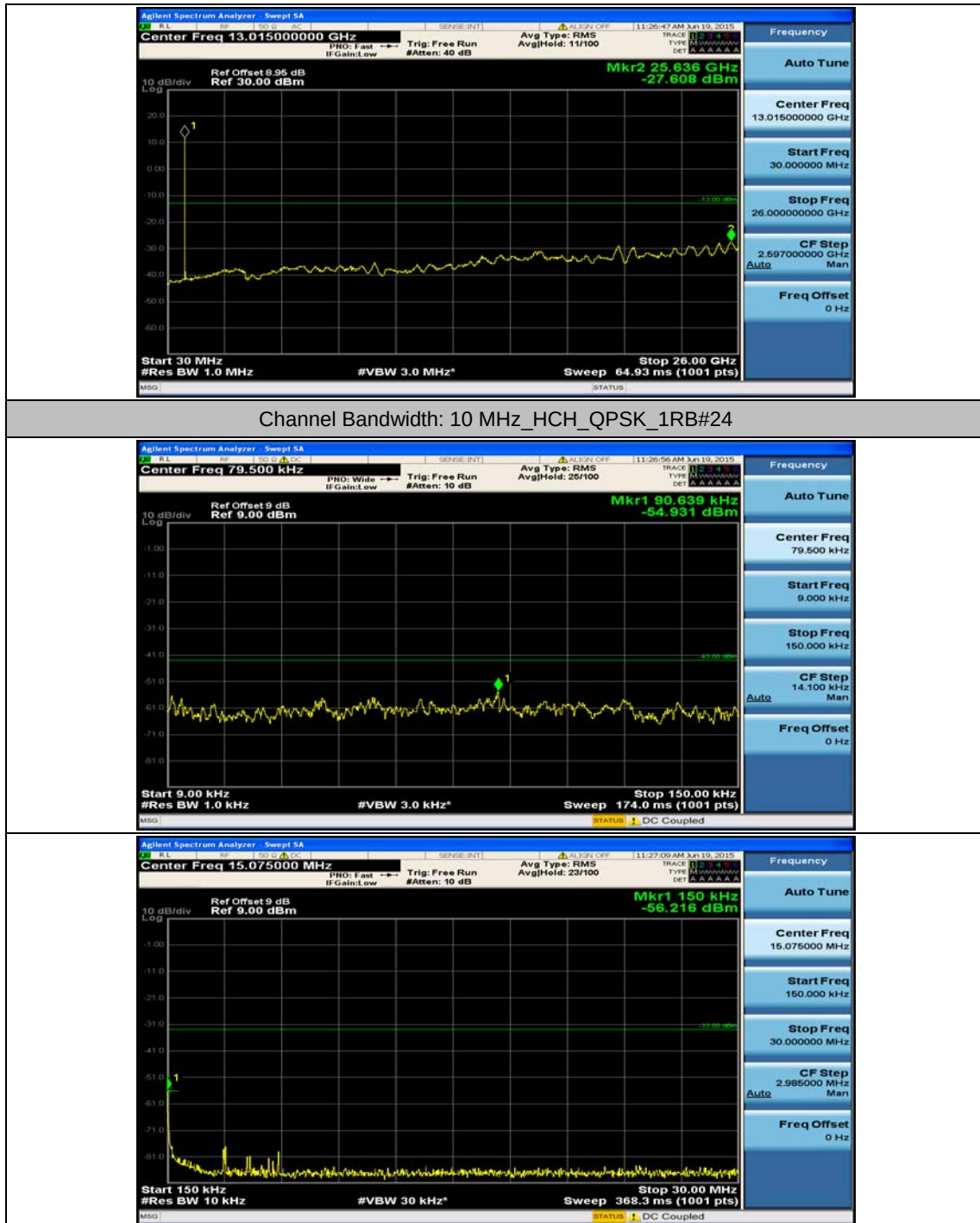


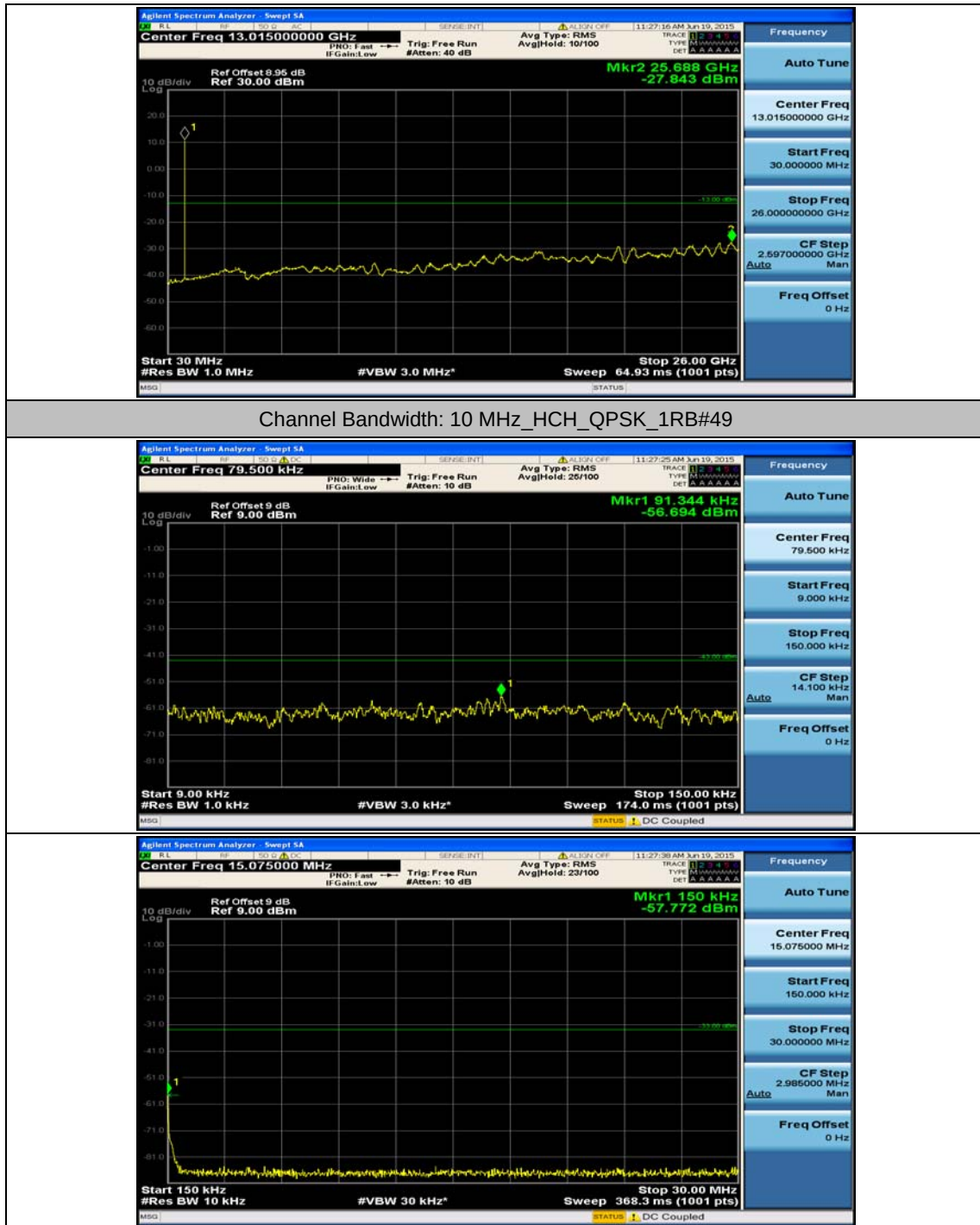




Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#0

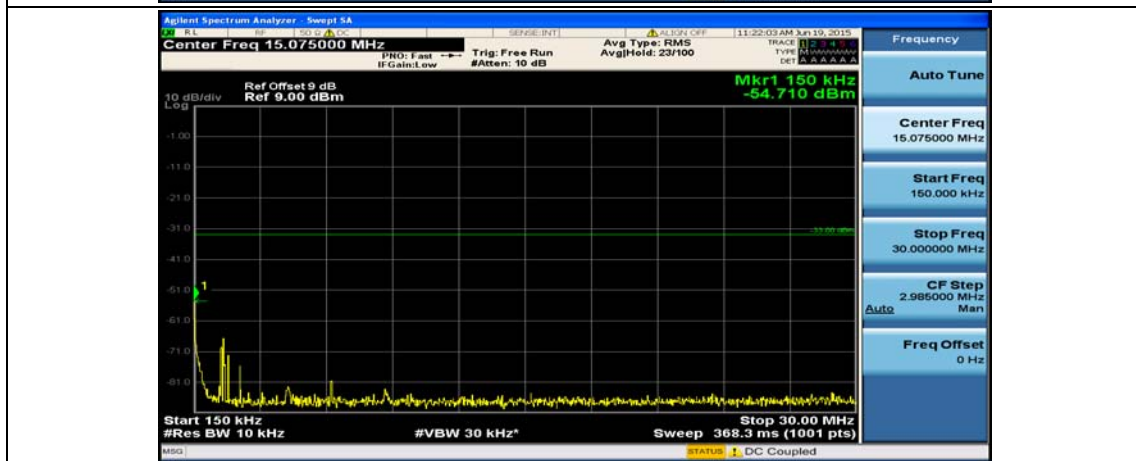
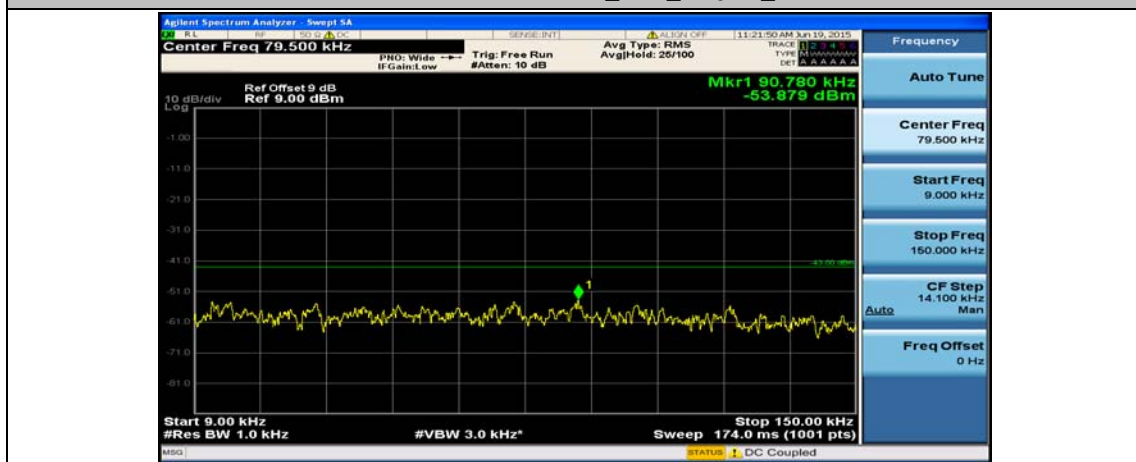


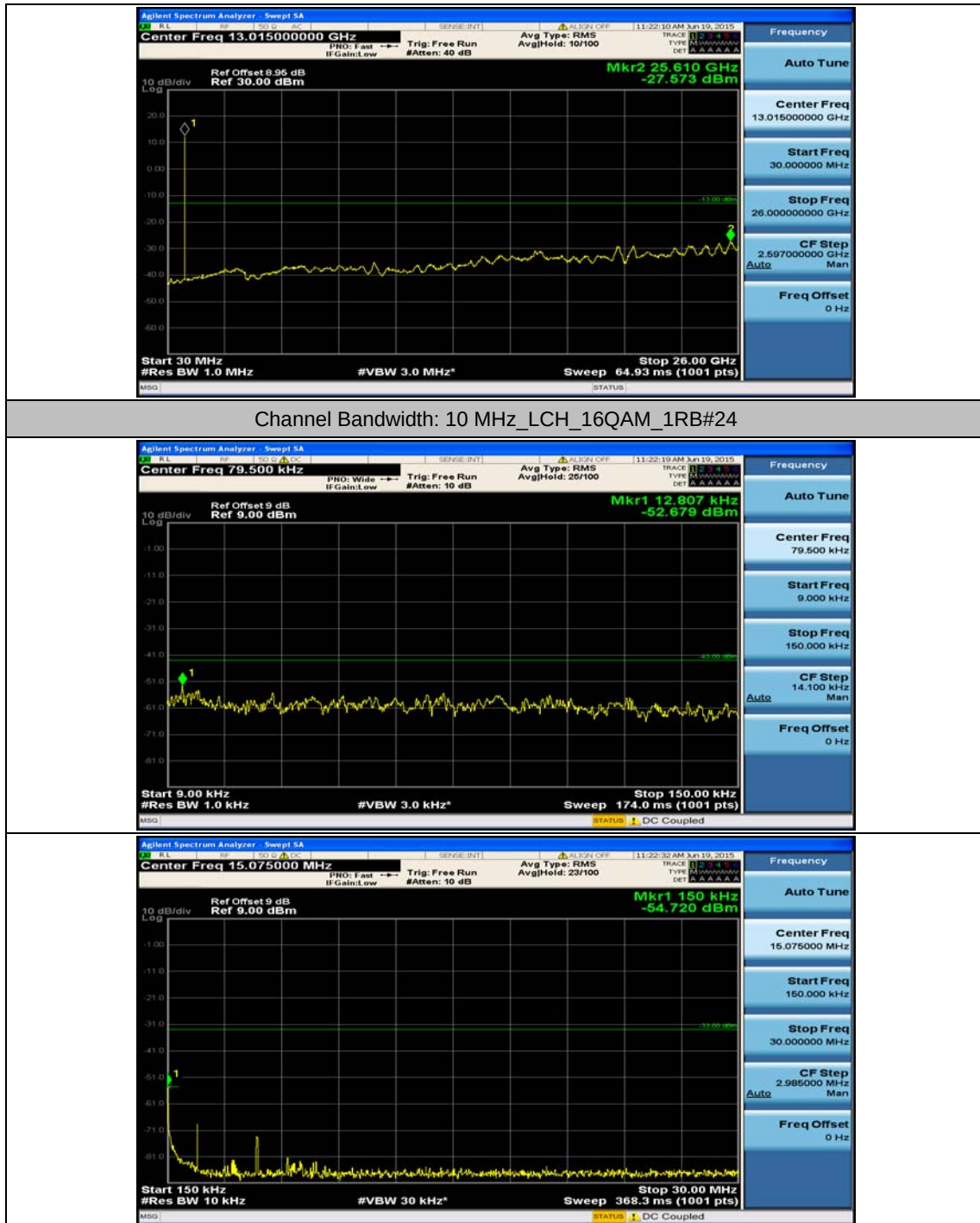


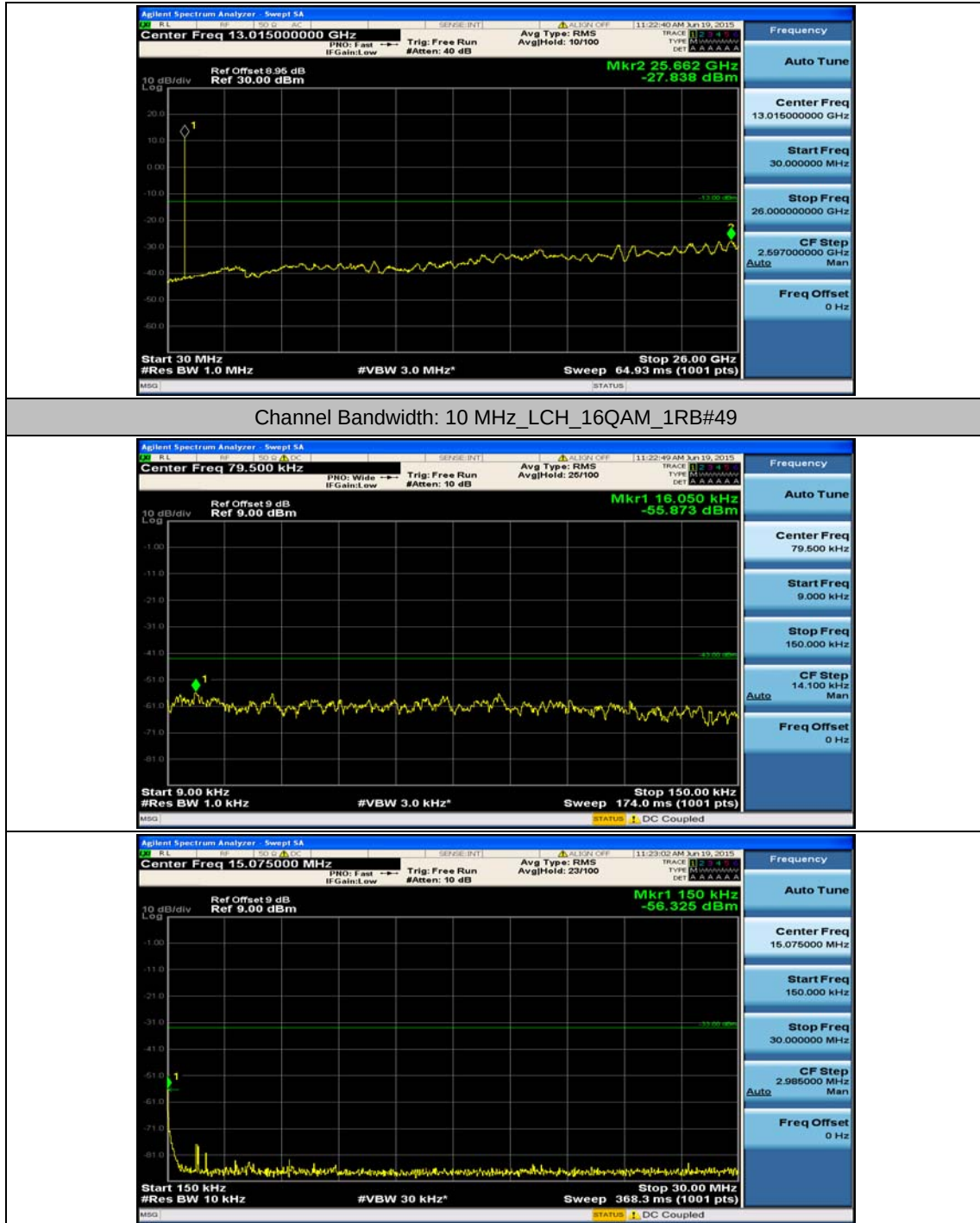




Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#0

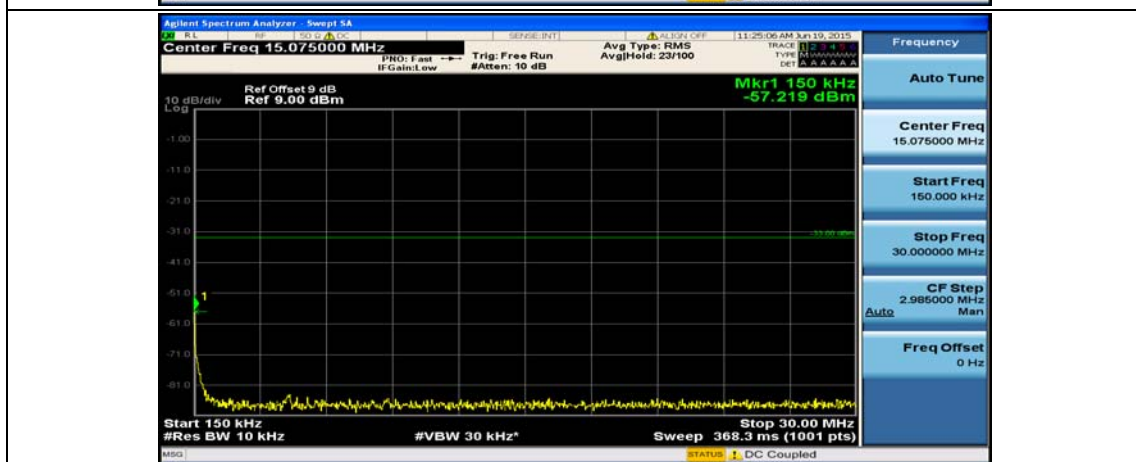
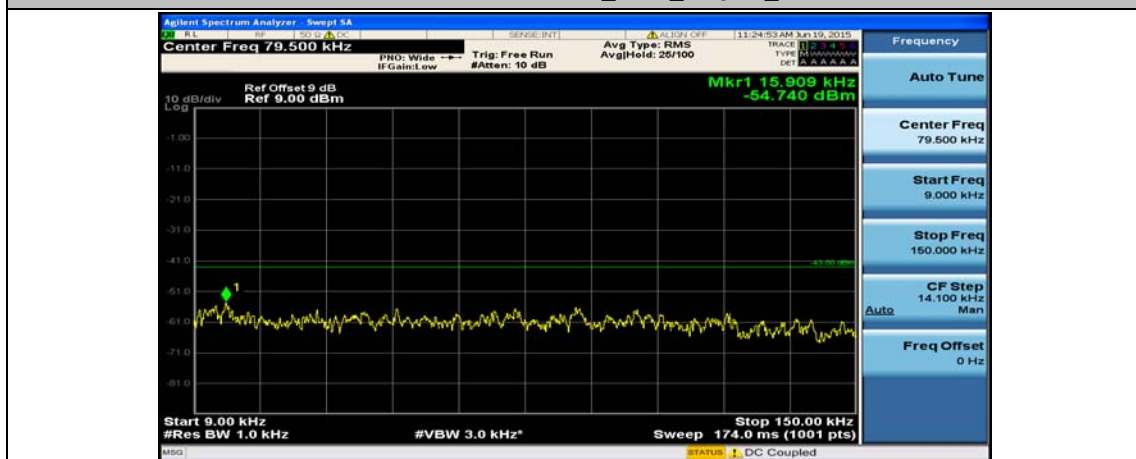


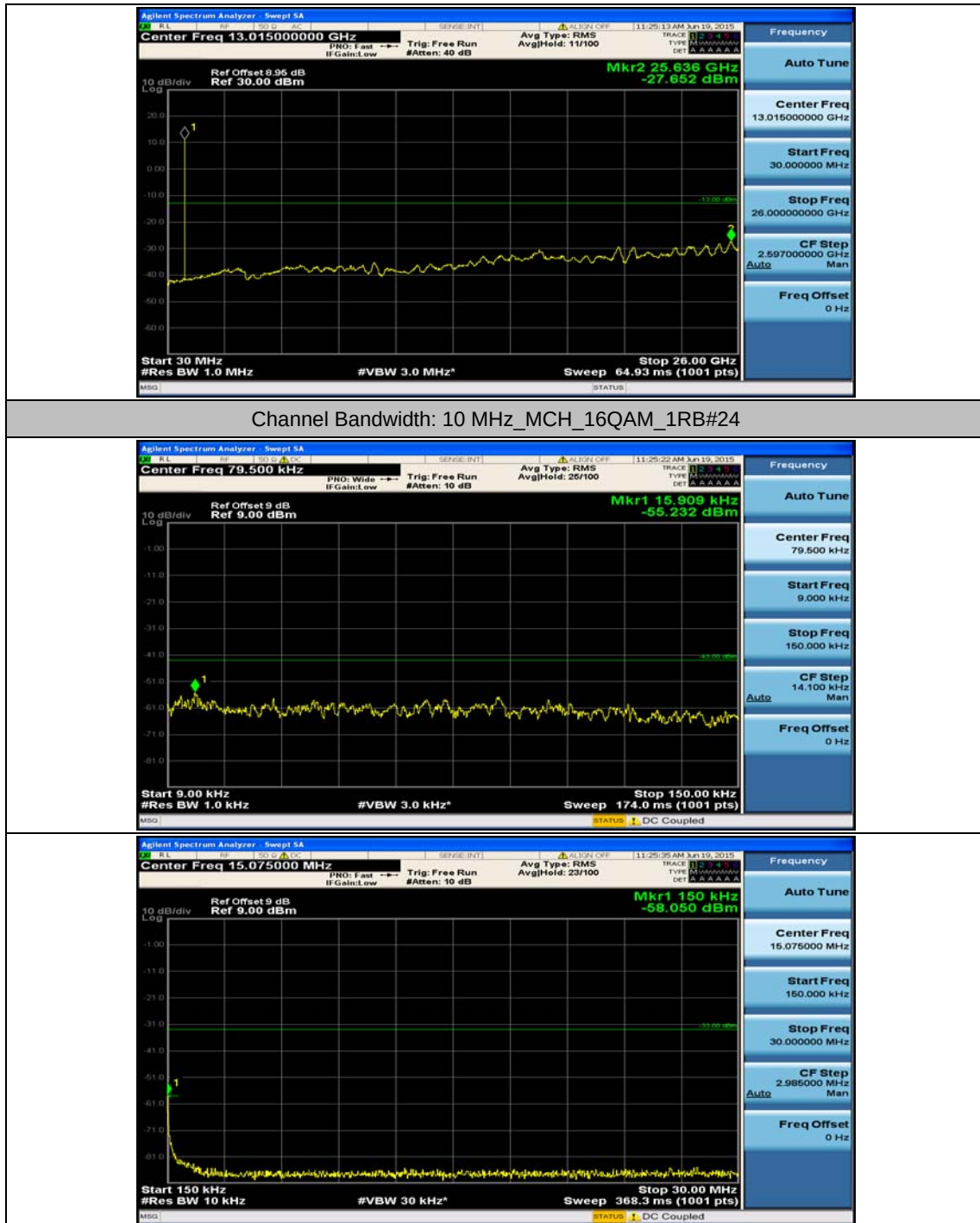


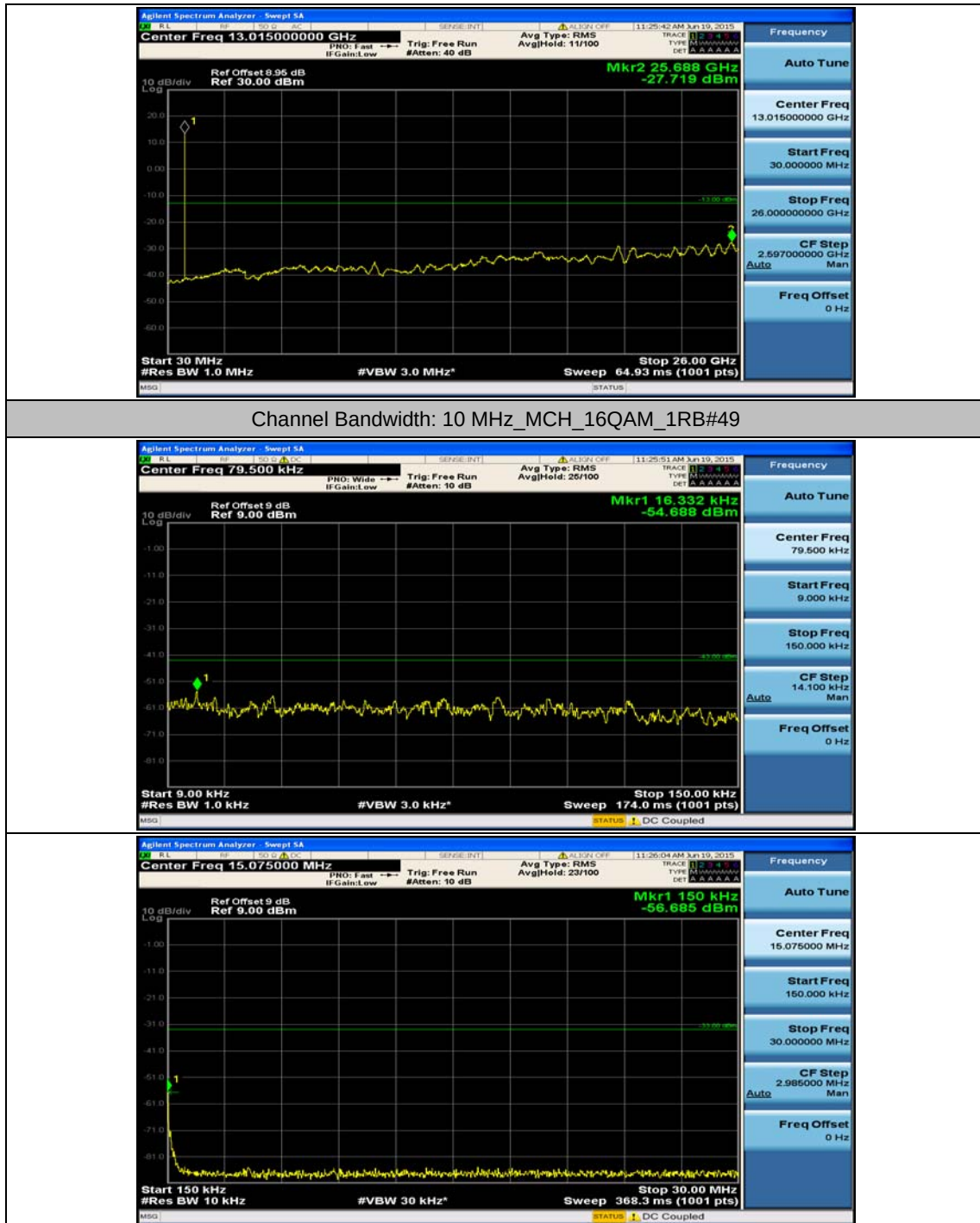




Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#0

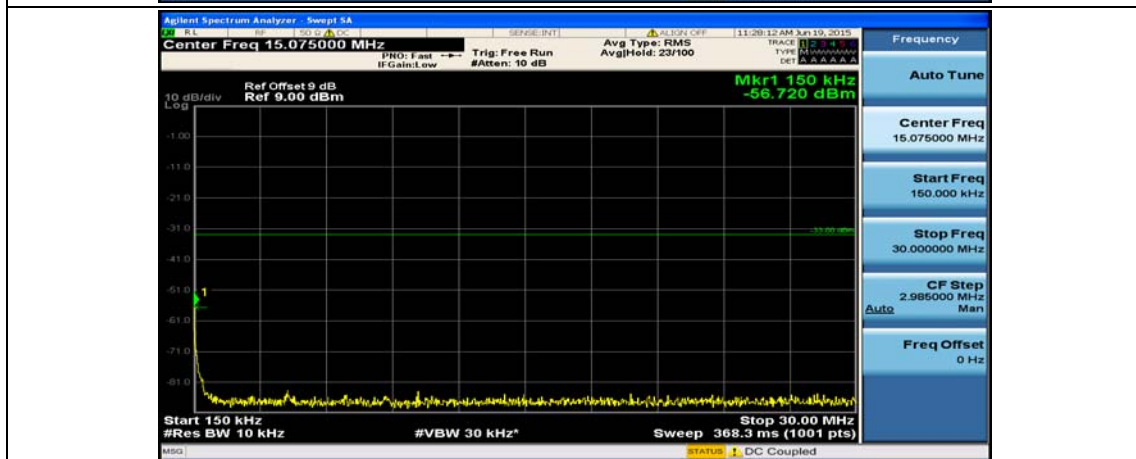
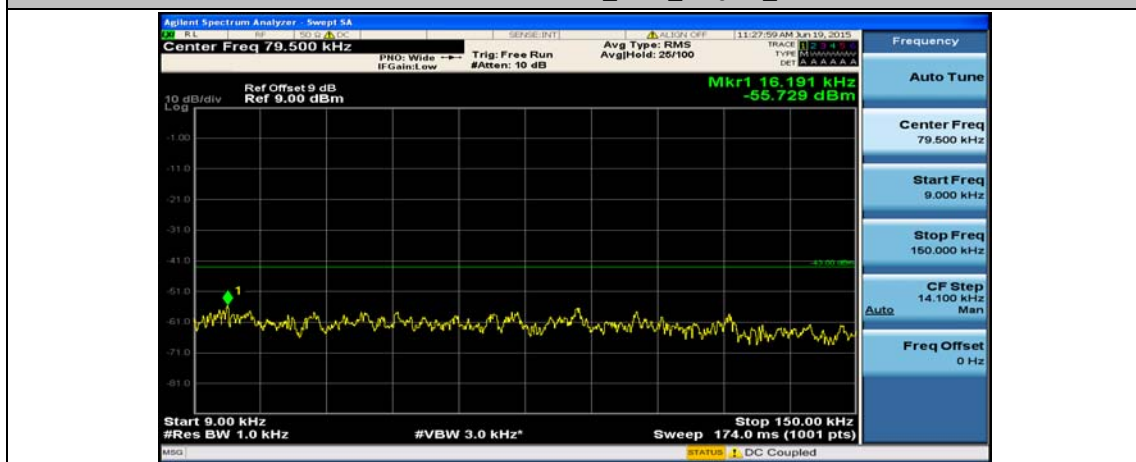


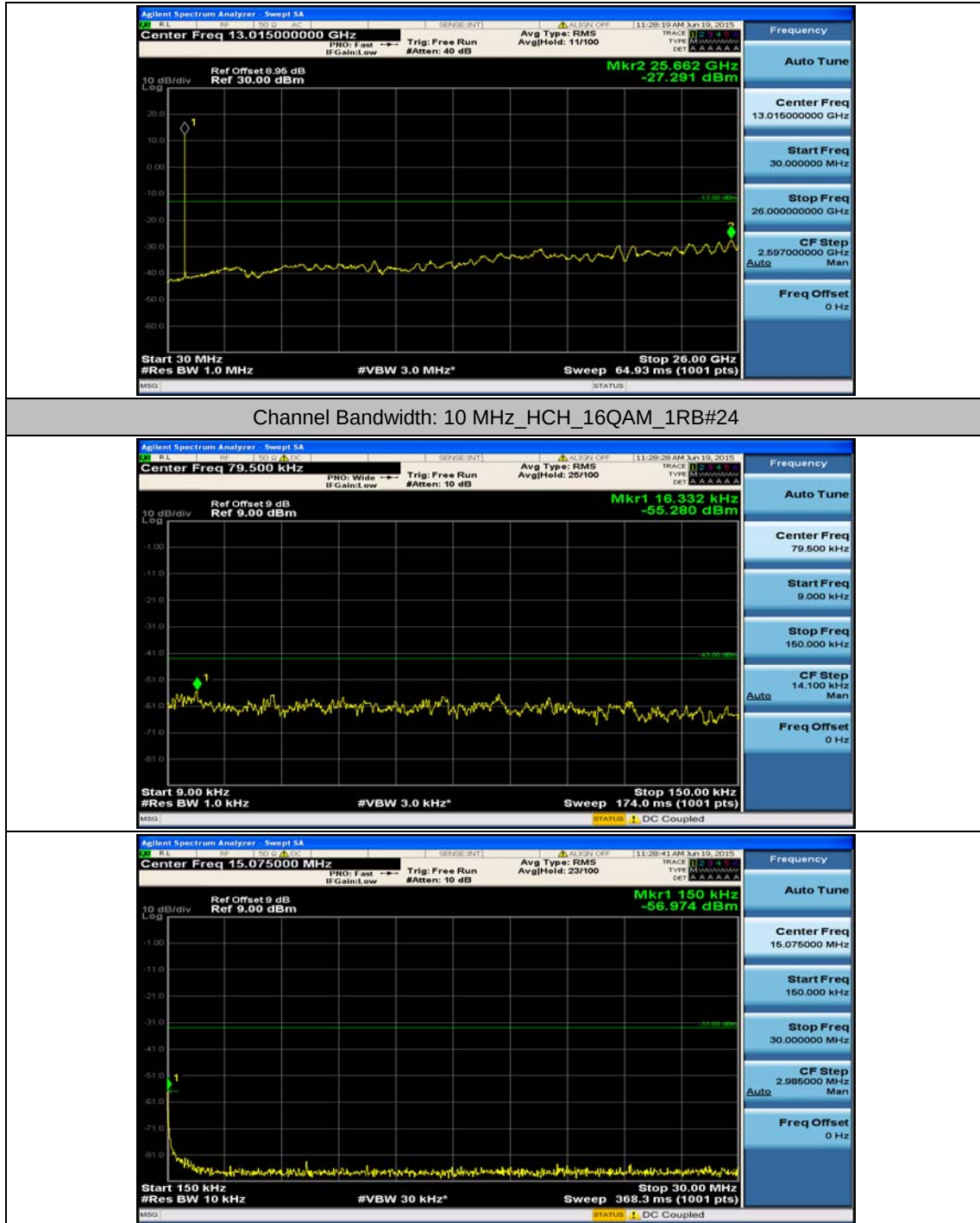


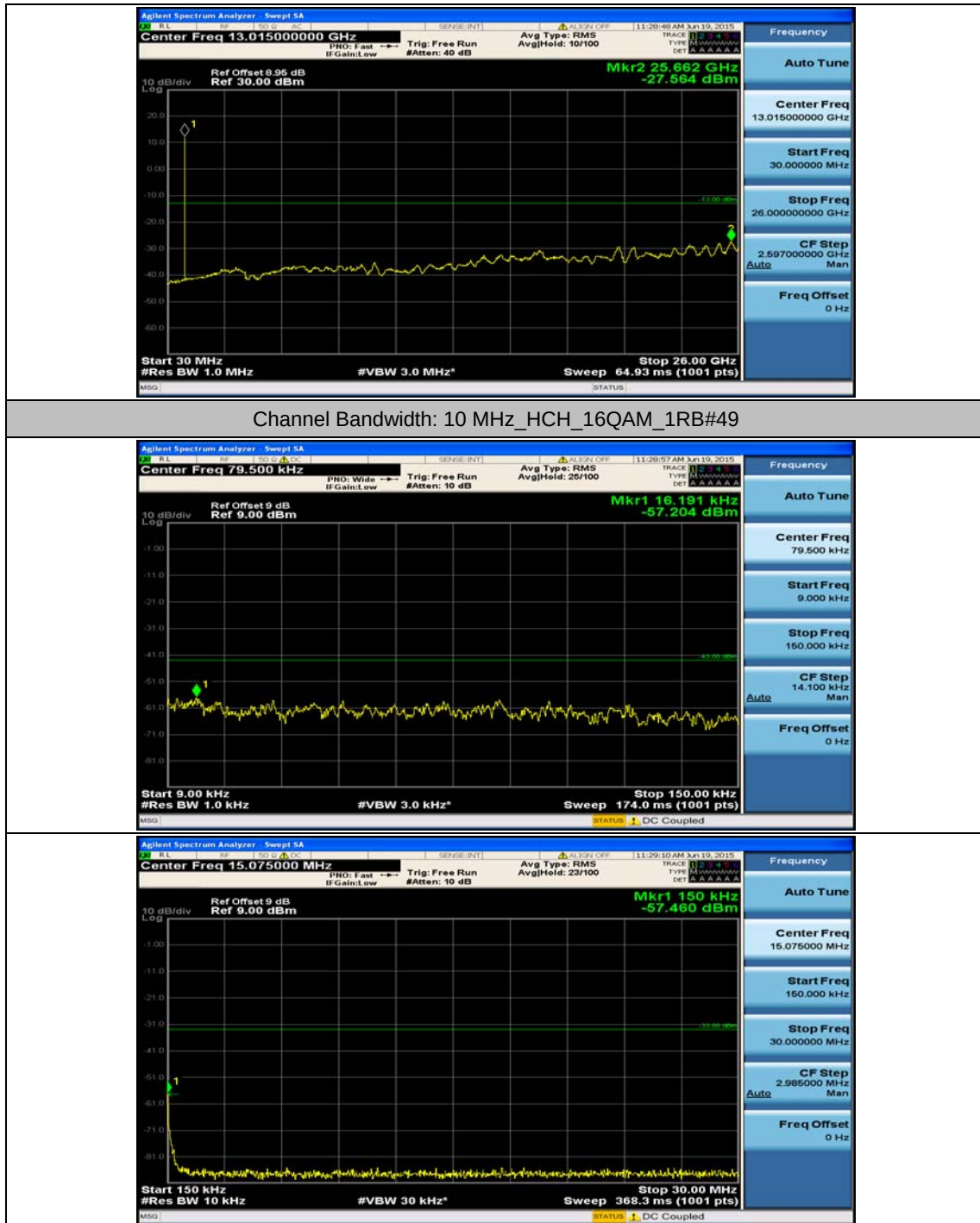




Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#0









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	-0.11	-0.000139	± 2.5	PASS
		VN	TN	-0.56	-0.000676	± 2.5	PASS
		VH	TN	-0.69	-0.000833	± 2.5	PASS
	MCH	VL	TN	-2.05	-0.002445	± 2.5	PASS
		VN	TN	-1.73	-0.002069	± 2.5	PASS
		VH	TN	-2.40	-0.002873	± 2.5	PASS
	HCH	VL	TN	-0.30	-0.000354	± 2.5	PASS
		VN	TN	0.43	0.000506	± 2.5	PASS
		VH	TN	-0.23	-0.000270	± 2.5	PASS
16QAM	LCH	VL	TN	-0.39	-0.000468	± 2.5	PASS
		VN	TN	-1.02	-0.001232	± 2.5	PASS
		VH	TN	-0.77	-0.000937	± 2.5	PASS
	MCH	VL	TN	-0.92	-0.001094	± 2.5	PASS
		VN	TN	-1.59	-0.001898	± 2.5	PASS
		VH	TN	-2.50	-0.002993	± 2.5	PASS
	HCH	VL	TN	-0.31	-0.000371	± 2.5	PASS
		VN	TN	-0.80	-0.000944	± 2.5	PASS
		VH	TN	-1.76	-0.002074	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-1.33	-0.001613	± 2.5	PASS
		VN	-20	-0.04	-0.000052	± 2.5	PASS
		VN	-10	-0.84	-0.001023	± 2.5	PASS
		VN	0	-1.34	-0.001631	± 2.5	PASS
		VN	10	-1.59	-0.001925	± 2.5	PASS
		VN	20	-0.04	-0.000052	± 2.5	PASS
		VN	30	-1.06	-0.001284	± 2.5	PASS
		VN	40	-1.24	-0.001509	± 2.5	PASS
		VN	50	-0.33	-0.000399	± 2.5	PASS
	MCH	VN	-30	-2.46	-0.002941	± 2.5	PASS
		VN	-20	-1.60	-0.001915	± 2.5	PASS
		VN	-10	-2.19	-0.002616	± 2.5	PASS
		VN	0	-2.23	-0.002668	± 2.5	PASS
		VN	10	-1.22	-0.001454	± 2.5	PASS
		VN	20	-2.33	-0.002787	± 2.5	PASS
VN	30	-2.57	-0.003078	± 2.5	PASS		

		VN	40	-1.95	-0.002326	± 2.5	PASS
		VN	50	-1.87	-0.002240	± 2.5	PASS
	HCH	VN	-30	-0.83	-0.000978	± 2.5	PASS
		VN	-20	-0.39	-0.000455	± 2.5	PASS
		VN	-10	-0.86	-0.001012	± 2.5	PASS
		VN	0	0.54	0.000641	± 2.5	PASS
		VN	10	-0.97	-0.001147	± 2.5	PASS
		VN	20	0.21	0.000253	± 2.5	PASS
		VN	30	-0.76	-0.000894	± 2.5	PASS
		VN	40	0.24	0.000287	± 2.5	PASS
		VN	50	0.14	0.000169	± 2.5	PASS
16QAM	LCH	VN	-30	-0.36	-0.000434	± 2.5	PASS
		VN	-20	0.27	0.000330	± 2.5	PASS
		VN	-10	-0.64	-0.000781	± 2.5	PASS
		VN	0	-1.96	-0.002376	± 2.5	PASS
		VN	10	0.67	0.000815	± 2.5	PASS
		VN	20	-1.16	-0.001405	± 2.5	PASS
		VN	30	-1.26	-0.001526	± 2.5	PASS
		VN	40	-2.10	-0.002550	± 2.5	PASS
		VN	50	-1.16	-0.001405	± 2.5	PASS
	MCH	VN	-30	-1.32	-0.001573	± 2.5	PASS
		VN	-20	-1.57	-0.001881	± 2.5	PASS
		VN	-10	-1.33	-0.001590	± 2.5	PASS
		VN	0	-2.20	-0.002634	± 2.5	PASS
		VN	10	-1.73	-0.002069	± 2.5	PASS
		VN	20	-0.80	-0.000958	± 2.5	PASS
		VN	30	-1.29	-0.001539	± 2.5	PASS
		VN	40	-1.36	-0.001625	± 2.5	PASS
		VN	50	-1.53	-0.001830	± 2.5	PASS
	HCH	VN	-30	-0.60	-0.000708	± 2.5	PASS
		VN	-20	-0.76	-0.000894	± 2.5	PASS
		VN	-10	-0.53	-0.000624	± 2.5	PASS
		VN	0	-0.63	-0.000742	± 2.5	PASS
		VN	10	-0.93	-0.001096	± 2.5	PASS
		VN	20	-1.65	-0.001939	± 2.5	PASS
		VN	30	0.29	0.000337	± 2.5	PASS
		VN	40	-0.86	-0.001012	± 2.5	PASS
		VN	50	-0.51	-0.000607	± 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	-0.43	-0.000520	± 2.5	PASS
		VN	TN	1.02	0.001230	± 2.5	PASS
		VH	TN	0.06	0.000069	± 2.5	PASS
	MCH	VL	TN	-1.10	-0.001317	± 2.5	PASS

		VN	TN	-1.17	-0.001402	± 2.5	PASS
		VH	TN	-2.00	-0.002394	± 2.5	PASS
	HCH	VL	TN	-0.36	-0.000422	± 2.5	PASS
		VN	TN	-0.27	-0.000321	± 2.5	PASS
		VH	TN	-0.31	-0.000371	± 2.5	PASS
16QAM	LCH	VL	TN	0.90	0.001092	± 2.5	PASS
		VN	TN	0.04	0.000052	± 2.5	PASS
		VH	TN	0.51	0.000624	± 2.5	PASS
	MCH	VL	TN	-1.47	-0.001761	± 2.5	PASS
		VN	TN	-1.26	-0.001505	± 2.5	PASS
		VH	TN	-1.10	-0.001317	± 2.5	PASS
	HCH	VL	TN	-1.00	-0.001182	± 2.5	PASS
		VN	TN	-0.24	-0.000287	± 2.5	PASS
		VH	TN	0.41	0.000489	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-0.94	-0.001144	± 2.5	PASS
		VN	-20	0.29	0.000347	± 2.5	PASS
		VN	-10	0.26	0.000312	± 2.5	PASS
		VN	0	-0.09	-0.000104	± 2.5	PASS
		VN	10	-0.79	-0.000953	± 2.5	PASS
		VN	20	0.90	0.001092	± 2.5	PASS
		VN	30	-0.94	-0.001144	± 2.5	PASS
		VN	40	-0.24	-0.000295	± 2.5	PASS
		VN	50	-0.77	-0.000936	± 2.5	PASS
	MCH	VN	-30	-1.07	-0.001283	± 2.5	PASS
		VN	-20	-0.51	-0.000616	± 2.5	PASS
		VN	-10	-1.36	-0.001625	± 2.5	PASS
		VN	0	-1.30	-0.001556	± 2.5	PASS
		VN	10	-2.55	-0.003044	± 2.5	PASS
		VN	20	-1.77	-0.002121	± 2.5	PASS
		VN	30	-2.30	-0.002753	± 2.5	PASS
		VN	40	-0.47	-0.000564	± 2.5	PASS
		VN	50	-2.02	-0.002411	± 2.5	PASS
	HCH	VN	-30	-0.30	-0.000354	± 2.5	PASS
		VN	-20	-1.49	-0.001755	± 2.5	PASS
		VN	-10	-0.79	-0.000928	± 2.5	PASS
		VN	0	-0.66	-0.000776	± 2.5	PASS
		VN	10	-0.82	-0.000962	± 2.5	PASS
		VN	20	-1.36	-0.001604	± 2.5	PASS
		VN	30	-1.36	-0.001604	± 2.5	PASS
		VN	40	-0.44	-0.000523	± 2.5	PASS
		VN	50	-0.54	-0.000641	± 2.5	PASS
QPSK	LCH	VN	-30	1.06	0.001282	± 2.5	PASS
		VN	-20	0.39	0.000468	± 2.5	PASS
		VN	-10	-0.51	-0.000624	± 2.5	PASS
		VN	0	-0.06	-0.000069	± 2.5	PASS
		VN	10	-1.47	-0.001785	± 2.5	PASS
		VN	20	-0.43	-0.000520	± 2.5	PASS

		VN	30	-0.10	-0.000121	± 2.5	PASS
		VN	40	-0.50	-0.000607	± 2.5	PASS
		VN	50	0.54	0.000659	± 2.5	PASS
	MCH	VN	-30	-1.30	-0.001556	± 2.5	PASS
		VN	-20	-1.46	-0.001744	± 2.5	PASS
		VN	-10	-1.65	-0.001967	± 2.5	PASS
		VN	0	-1.66	-0.001984	± 2.5	PASS
		VN	10	-0.77	-0.000923	± 2.5	PASS
		VN	20	-1.67	-0.002001	± 2.5	PASS
		VN	30	-2.60	-0.003112	± 2.5	PASS
		VN	40	-1.65	-0.001967	± 2.5	PASS
		VN	50	-0.79	-0.000941	± 2.5	PASS
	HCH	VN	-30	-1.90	-0.002245	± 2.5	PASS
		VN	-20	0.43	0.000506	± 2.5	PASS
		VN	-10	-0.23	-0.000270	± 2.5	PASS
		VN	0	-0.89	-0.001047	± 2.5	PASS
		VN	10	-1.87	-0.002211	± 2.5	PASS
		VN	20	-0.49	-0.000574	± 2.5	PASS
		VN	30	0.96	0.001131	± 2.5	PASS
		VN	40	-0.09	-0.000101	± 2.5	PASS
		VN	50	-1.70	-0.002009	± 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	-1.22	-0.001471	± 2.5	PASS
		VN	TN	0.14	0.000173	± 2.5	PASS
		VH	TN	-1.04	-0.001263	± 2.5	PASS
	MCH	VL	TN	-1.54	-0.001847	± 2.5	PASS
		VN	TN	-2.83	-0.003386	± 2.5	PASS
		VH	TN	-2.09	-0.002497	± 2.5	PASS
	HCH	VL	TN	-0.33	-0.000389	± 2.5	PASS
		VN	TN	-0.40	-0.000473	± 2.5	PASS
		VH	TN	-0.51	-0.000608	± 2.5	PASS
16QAM	LCH	VL	TN	-1.22	-0.001471	± 2.5	PASS
		VN	TN	0.10	0.000121	± 2.5	PASS
		VH	TN	0.70	0.000848	± 2.5	PASS
	MCH	VL	TN	-0.27	-0.000325	± 2.5	PASS
		VN	TN	-2.95	-0.003523	± 2.5	PASS
		VH	TN	-1.95	-0.002326	± 2.5	PASS
	HCH	VL	TN	-0.50	-0.000591	± 2.5	PASS
		VN	TN	0.86	0.001014	± 2.5	PASS
		VH	TN	0.44	0.000524	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict

QPSK	LCH	VN	-30	-0.31	-0.000381	± 2.5	PASS
		VN	-20	-0.83	-0.001004	± 2.5	PASS
		VN	-10	0.13	0.000156	± 2.5	PASS
		VN	0	-0.41	-0.000502	± 2.5	PASS
		VN	10	0.17	0.000208	± 2.5	PASS
		VN	20	-0.10	-0.000121	± 2.5	PASS
		VN	30	-0.11	-0.000138	± 2.5	PASS
		VN	40	-0.19	-0.000225	± 2.5	PASS
		VN	50	-0.13	-0.000156	± 2.5	PASS
	MCH	VN	-30	-2.06	-0.002463	± 2.5	PASS
		VN	-20	-1.39	-0.001659	± 2.5	PASS
		VN	-10	-0.62	-0.000735	± 2.5	PASS
		VN	0	-2.66	-0.003181	± 2.5	PASS
		VN	10	-0.89	-0.001060	± 2.5	PASS
		VN	20	-2.93	-0.003506	± 2.5	PASS
		VN	30	-1.85	-0.002206	± 2.5	PASS
		VN	40	-1.62	-0.001932	± 2.5	PASS
		VN	50	-1.60	-0.001915	± 2.5	PASS
	HCH	VN	-30	0.14	0.000169	± 2.5	PASS
		VN	-20	-1.06	-0.001251	± 2.5	PASS
		VN	-10	0.01	0.000017	± 2.5	PASS
		VN	0	0.23	0.000270	± 2.5	PASS
		VN	10	0.62	0.000727	± 2.5	PASS
		VN	20	-0.73	-0.000862	± 2.5	PASS
		VN	30	-0.54	-0.000642	± 2.5	PASS
		VN	40	-0.11	-0.000135	± 2.5	PASS
		VN	50	-1.20	-0.001420	± 2.5	PASS
16QAM	LCH	VN	-30	-0.70	-0.000848	± 2.5	PASS
		VN	-20	-1.54	-0.001869	± 2.5	PASS
		VN	-10	-1.82	-0.002198	± 2.5	PASS
		VN	0	0.09	0.000104	± 2.5	PASS
		VN	10	-0.27	-0.000329	± 2.5	PASS
		VN	20	-0.33	-0.000398	± 2.5	PASS
		VN	30	-1.02	-0.001229	± 2.5	PASS
		VN	40	0.13	0.000156	± 2.5	PASS
		VN	50	-0.84	-0.001021	± 2.5	PASS
	MCH	VN	-30	-0.70	-0.000838	± 2.5	PASS
		VN	-20	-1.79	-0.002138	± 2.5	PASS
		VN	-10	-2.09	-0.002497	± 2.5	PASS
		VN	0	-1.83	-0.002189	± 2.5	PASS
		VN	10	-1.39	-0.001659	± 2.5	PASS
		VN	20	-1.09	-0.001300	± 2.5	PASS
		VN	30	-1.43	-0.001710	± 2.5	PASS
		VN	40	-1.56	-0.001864	± 2.5	PASS
		VN	50	-1.19	-0.001419	± 2.5	PASS
	HCH	VN	-30	-0.03	-0.000034	± 2.5	PASS
		VN	-20	-0.47	-0.000558	± 2.5	PASS
		VN	-10	0.31	0.000372	± 2.5	PASS
		VN	0	0.43	0.000507	± 2.5	PASS
		VN	10	0.31	0.000372	± 2.5	PASS

		VN	20	0.14	0.000169	± 2.5	PASS
		VN	30	0.00	0.000000	± 2.5	PASS
		VN	40	-0.41	-0.000490	± 2.5	PASS
		VN	50	1.03	0.001217	± 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	-0.96	-0.001156	± 2.5	PASS
		VN	TN	-0.51	-0.000621	± 2.5	PASS
		VH	TN	-0.77	-0.000932	± 2.5	PASS
	MCH	VL	TN	-2.17	-0.002599	± 2.5	PASS
		VN	TN	-1.52	-0.001813	± 2.5	PASS
		VH	TN	-0.70	-0.000838	± 2.5	PASS
	HCH	VL	TN	-2.00	-0.002373	± 2.5	PASS
		VN	TN	-2.17	-0.002576	± 2.5	PASS
		VH	TN	-2.40	-0.002847	± 2.5	PASS
16QAM	LCH	VL	TN	-1.22	-0.001467	± 2.5	PASS
		VN	TN	-1.90	-0.002295	± 2.5	PASS
		VH	TN	0.13	0.000155	± 2.5	PASS
	MCH	VL	TN	-1.39	-0.001659	± 2.5	PASS
		VN	TN	-2.78	-0.003318	± 2.5	PASS
		VH	TN	-2.55	-0.003044	± 2.5	PASS
	HCH	VL	TN	-1.46	-0.001729	± 2.5	PASS
		VN	TN	-2.19	-0.002593	± 2.5	PASS
		VH	TN	-1.76	-0.002085	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
16QAM	LCH	VN	-30	-2.45	-0.002951	± 2.5	PASS
		VN	-20	-2.25	-0.002709	± 2.5	PASS
		VN	-10	-2.50	-0.003020	± 2.5	PASS
		VN	0	-1.95	-0.002347	± 2.5	PASS
		VN	10	-1.82	-0.002191	± 2.5	PASS
		VN	20	-1.97	-0.002381	± 2.5	PASS
		VN	30	-1.22	-0.001467	± 2.5	PASS
		VN	40	-1.02	-0.001225	± 2.5	PASS
		VN	50	-2.46	-0.002968	± 2.5	PASS
	MCH	VN	-30	-2.06	-0.002463	± 2.5	PASS
		VN	-20	-1.30	-0.001556	± 2.5	PASS
		VN	-10	-1.12	-0.001334	± 2.5	PASS
		VN	0	-0.80	-0.000958	± 2.5	PASS
		VN	10	-1.66	-0.001984	± 2.5	PASS
		VN	20	-1.80	-0.002155	± 2.5	PASS
VN		30	-2.19	-0.002616	± 2.5	PASS	
VN	40	-1.92	-0.002292	± 2.5	PASS		

	HCH	VN	50	-1.86	-0.002223	± 2.5	PASS
		VN	-30	-1.86	-0.002203	± 2.5	PASS
		VN	-20	-0.63	-0.000746	± 2.5	PASS
		VN	-10	-1.30	-0.001542	± 2.5	PASS
		VN	0	-2.02	-0.002390	± 2.5	PASS
		VN	10	-1.34	-0.001593	± 2.5	PASS
		VN	20	-0.43	-0.000508	± 2.5	PASS
		VN	30	-1.89	-0.002237	± 2.5	PASS
		VN	40	-2.47	-0.002932	± 2.5	PASS
		VN	50	-2.02	-0.002390	± 2.5	PASS
QPSK	LCH	VN	-30	-2.37	-0.002864	± 2.5	PASS
		VN	-20	-0.76	-0.000915	± 2.5	PASS
		VN	-10	-1.60	-0.001933	± 2.5	PASS
		VN	0	-0.93	-0.001122	± 2.5	PASS
		VN	10	-1.80	-0.002174	± 2.5	PASS
		VN	20	-2.27	-0.002744	± 2.5	PASS
		VN	30	-0.76	-0.000915	± 2.5	PASS
		VN	40	-1.90	-0.002295	± 2.5	PASS
		VN	50	-0.92	-0.001104	± 2.5	PASS
	MCH	VN	-30	-2.37	-0.002839	± 2.5	PASS
		VN	-20	-2.26	-0.002702	± 2.5	PASS
		VN	-10	-2.02	-0.002411	± 2.5	PASS
		VN	0	-0.41	-0.000496	± 2.5	PASS
		VN	10	-2.17	-0.002599	± 2.5	PASS
		VN	20	-1.30	-0.001556	± 2.5	PASS
		VN	30	-1.32	-0.001573	± 2.5	PASS
		VN	40	-2.19	-0.002616	± 2.5	PASS
		VN	50	-1.30	-0.001556	± 2.5	PASS
	HCH	VN	-30	-1.24	-0.001475	± 2.5	PASS
		VN	-20	-1.80	-0.002136	± 2.5	PASS
		VN	-10	-2.53	-0.003000	± 2.5	PASS
		VN	0	-2.70	-0.003203	± 2.5	PASS
		VN	10	-1.49	-0.001763	± 2.5	PASS
		VN	20	-2.27	-0.002695	± 2.5	PASS
		VN	30	-2.75	-0.003254	± 2.5	PASS
		VN	40	-1.17	-0.001390	± 2.5	PASS
		VN	50	-0.92	-0.001085	± 2.5	PASS