



Channel Bandwidth: 10 MHz_LCH_QPSK_50RB#0



Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#0



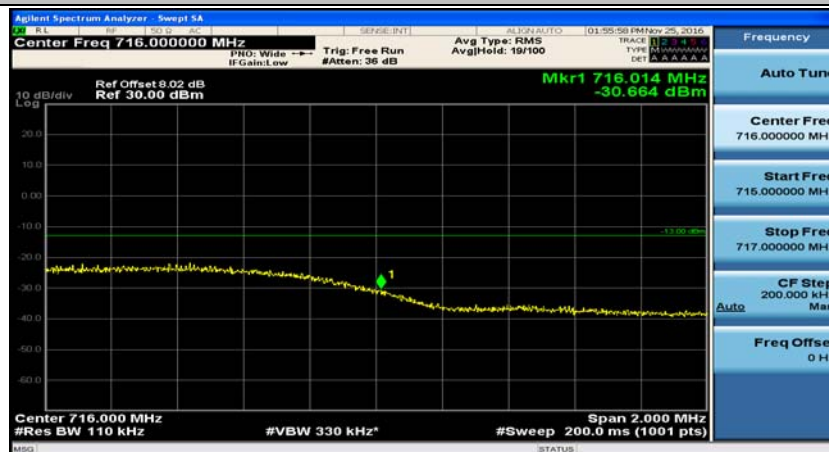
Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#24



Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#49



Channel Bandwidth: 10 MHz_HCH_QPSK_25RB#0



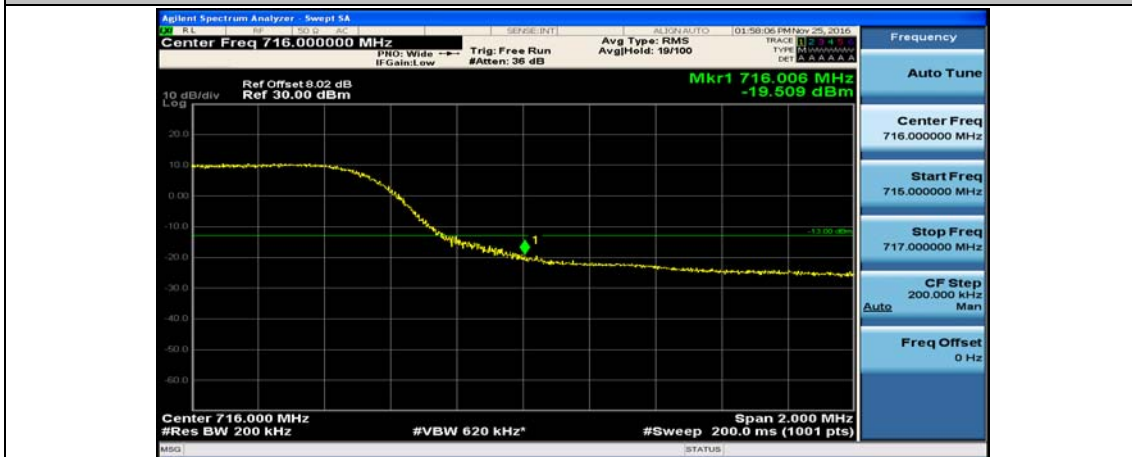
Channel Bandwidth: 10 MHz_HCH_QPSK_25RB#12



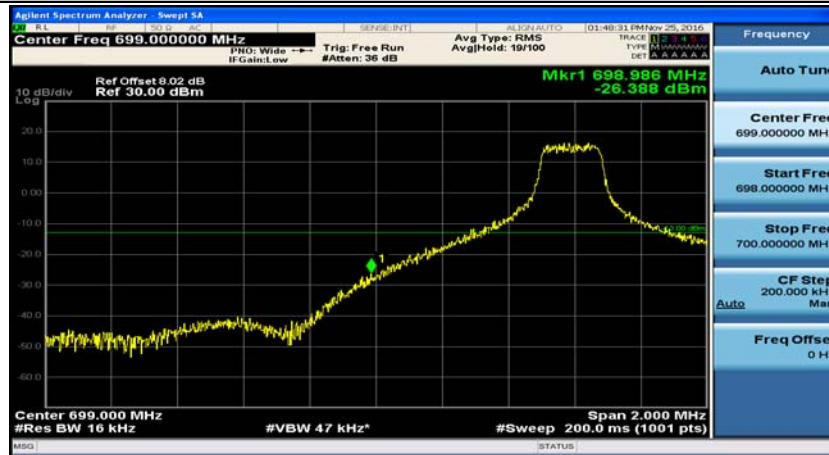
Channel Bandwidth: 10 MHz_HCH_QPSK_25RB#25



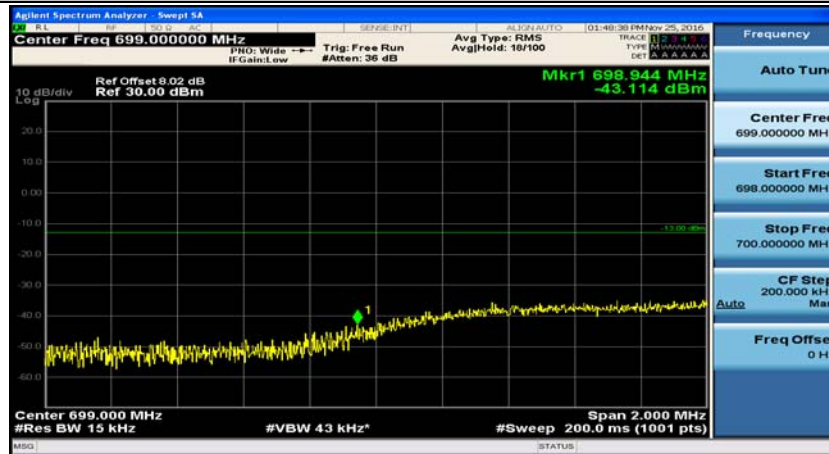
Channel Bandwidth: 10 MHz_HCH_QPSK_50RB#0



Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#0



Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#24



Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#49



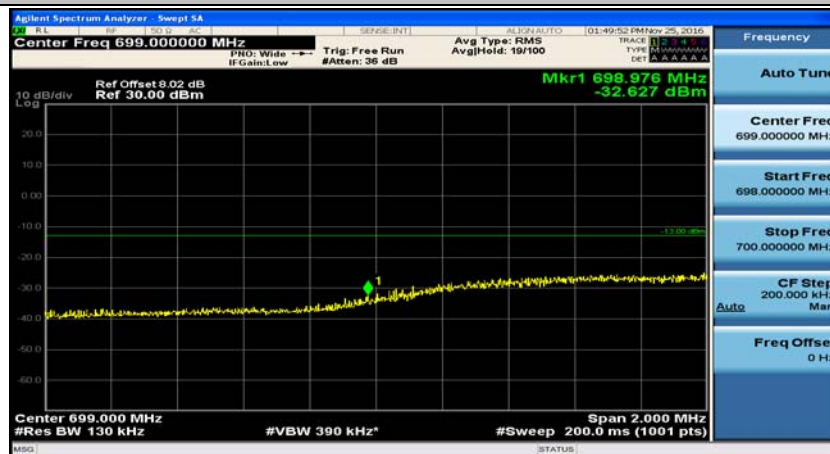
Channel Bandwidth: 10 MHz_LCH_16QAM_25RB#0



Channel Bandwidth: 10 MHz_LCH_16QAM_25RB#12



Channel Bandwidth: 10 MHz_LCH_16QAM_25RB#25



Channel Bandwidth: 10 MHz_LCH_16QAM_50RB#0



Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#0



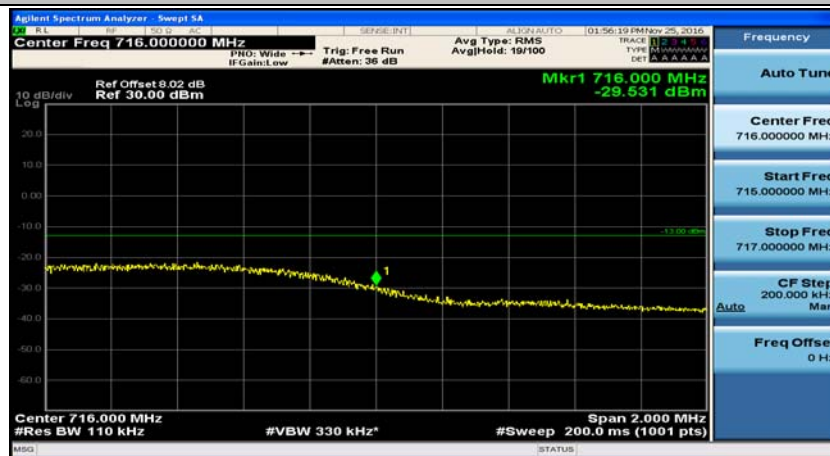
Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#24



Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#49



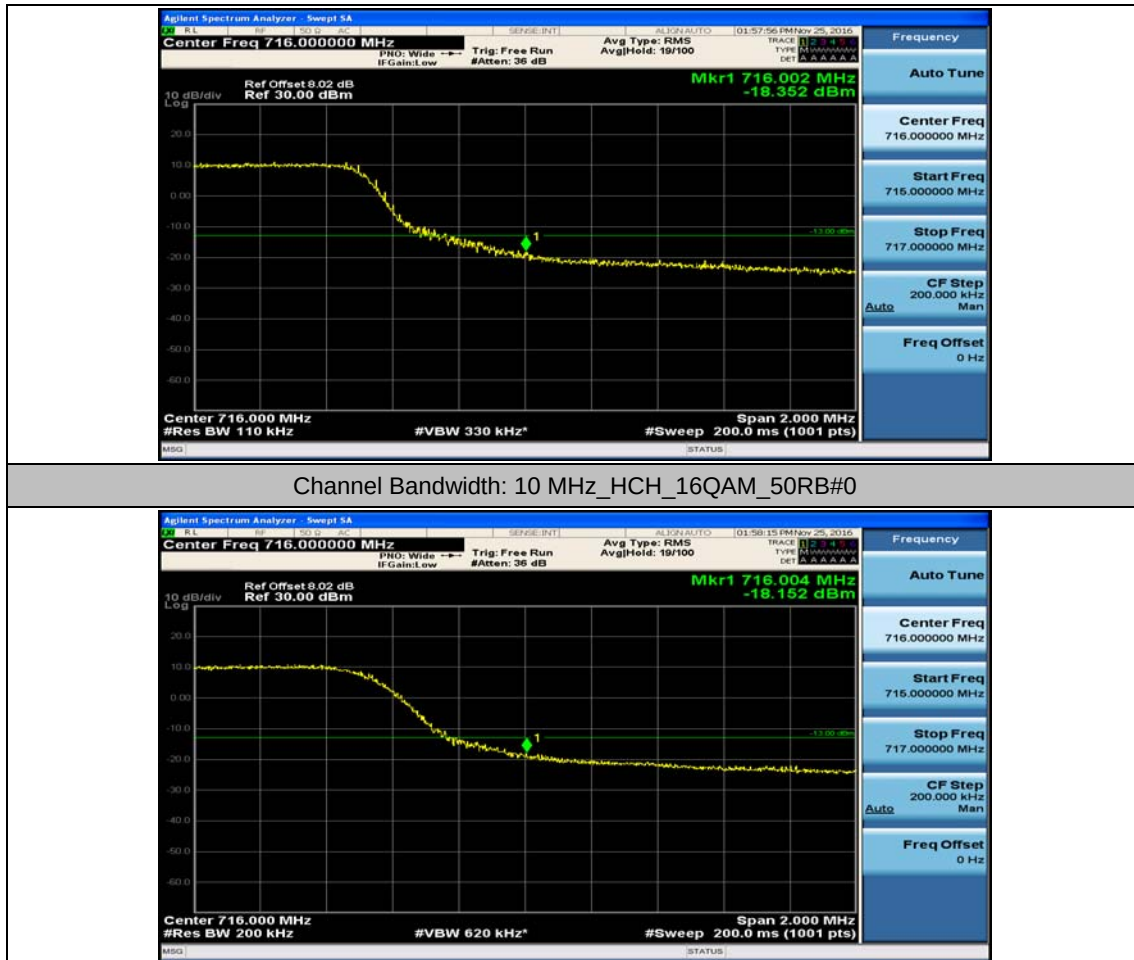
Channel Bandwidth: 10 MHz_HCH_16QAM_25RB#0



Channel Bandwidth: 10 MHz_HCH_16QAM_25RB#12



Channel Bandwidth: 10 MHz_HCH_16QAM_25RB#25

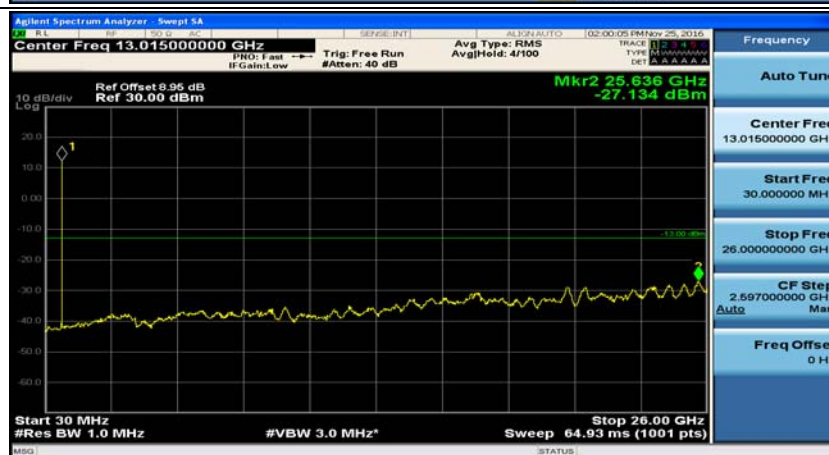
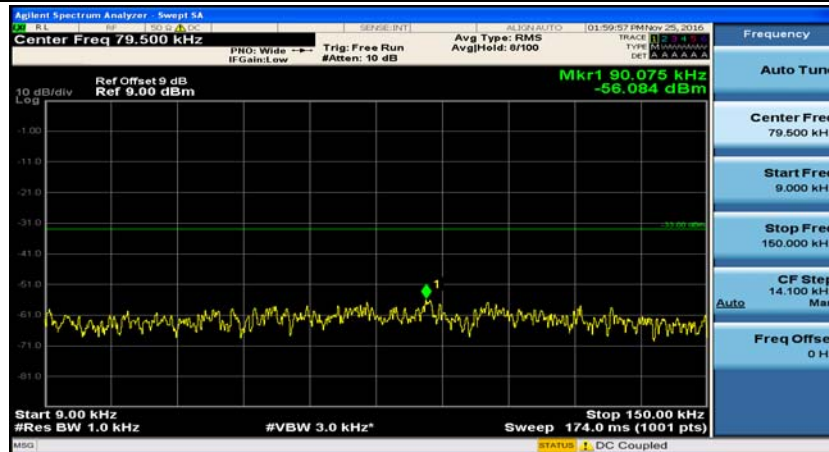


Appendix E: Conducted Spurious Emission

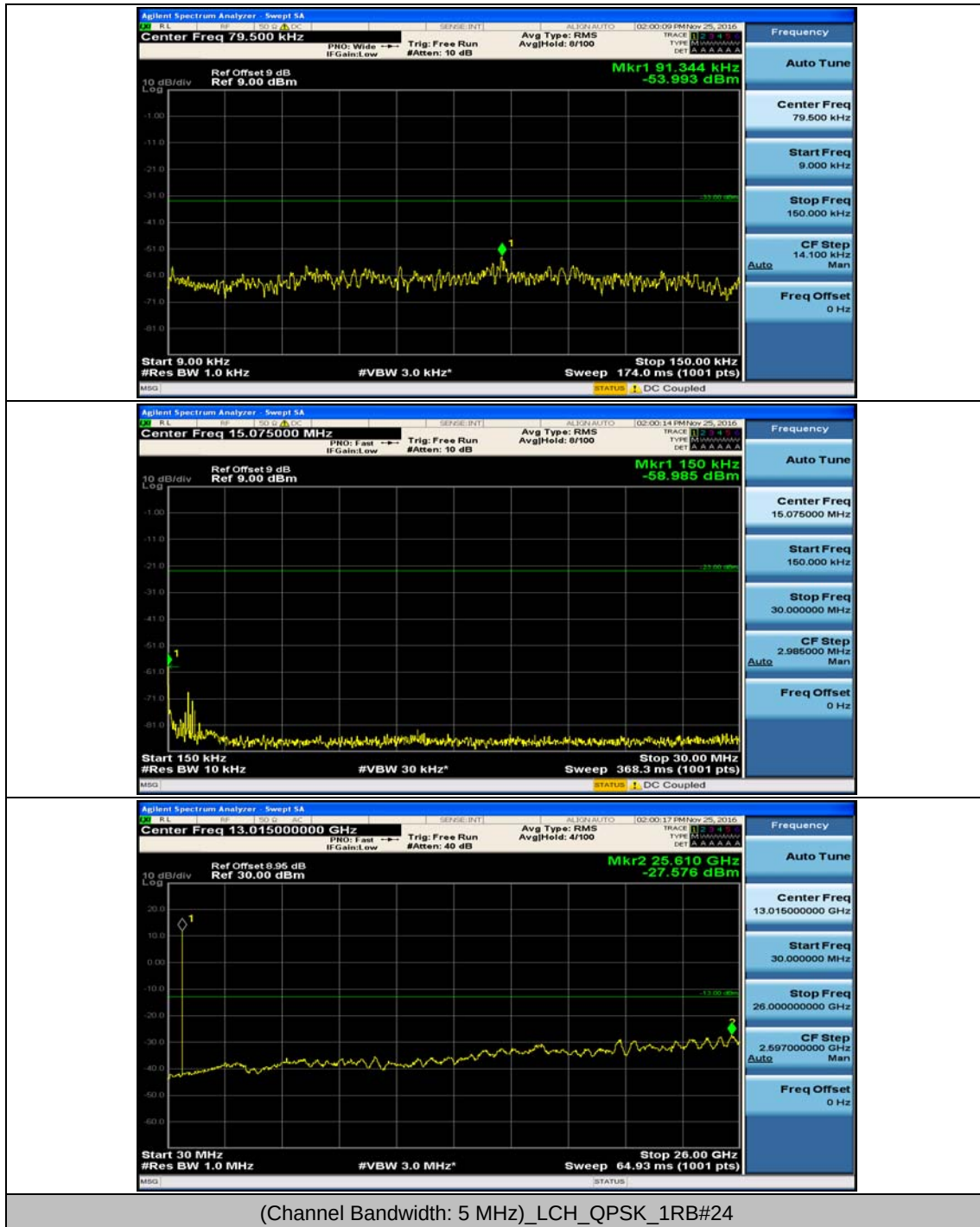
Test Graphs

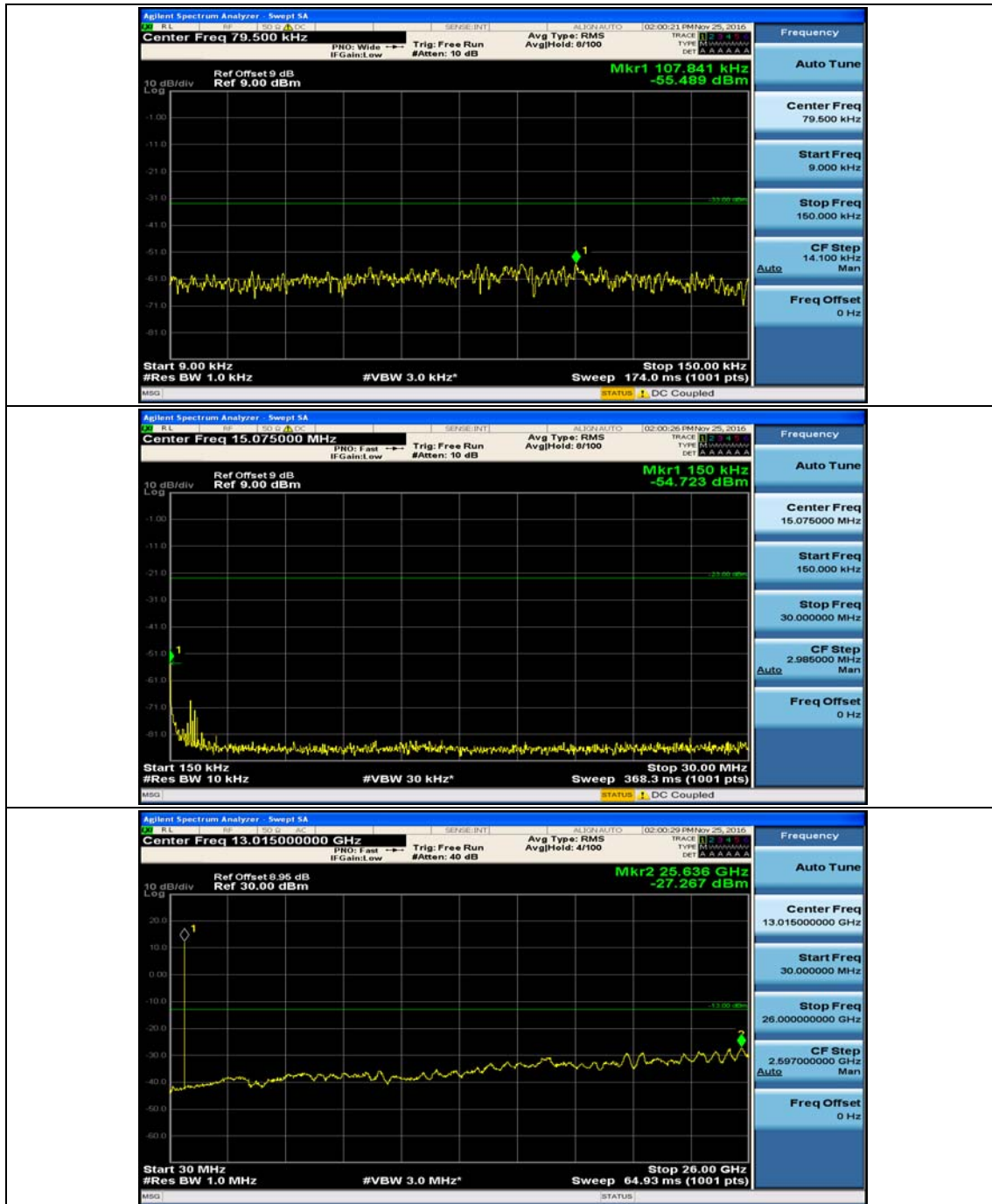
Channel Bandwidth: 5 MHz

(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#0

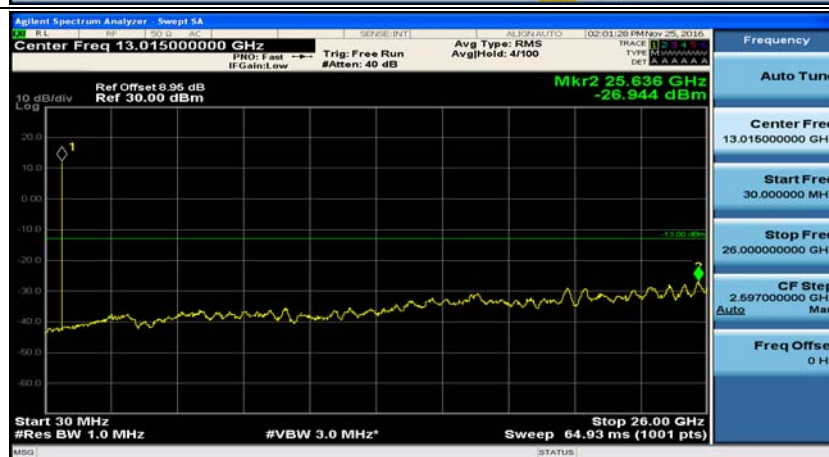
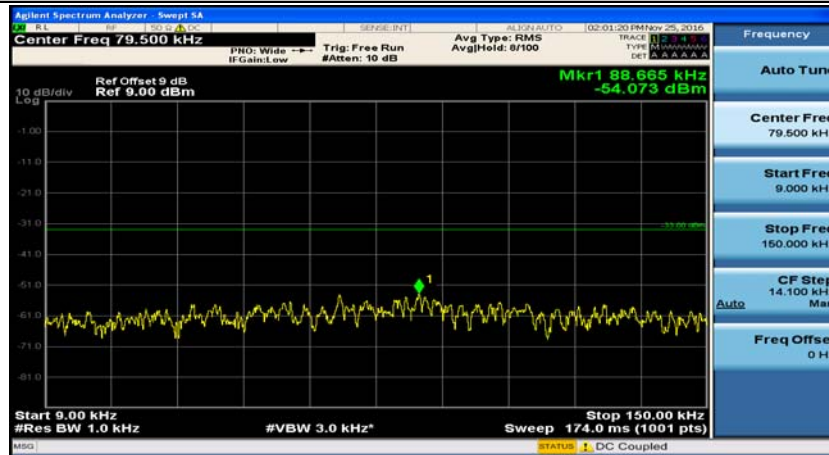


(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#12

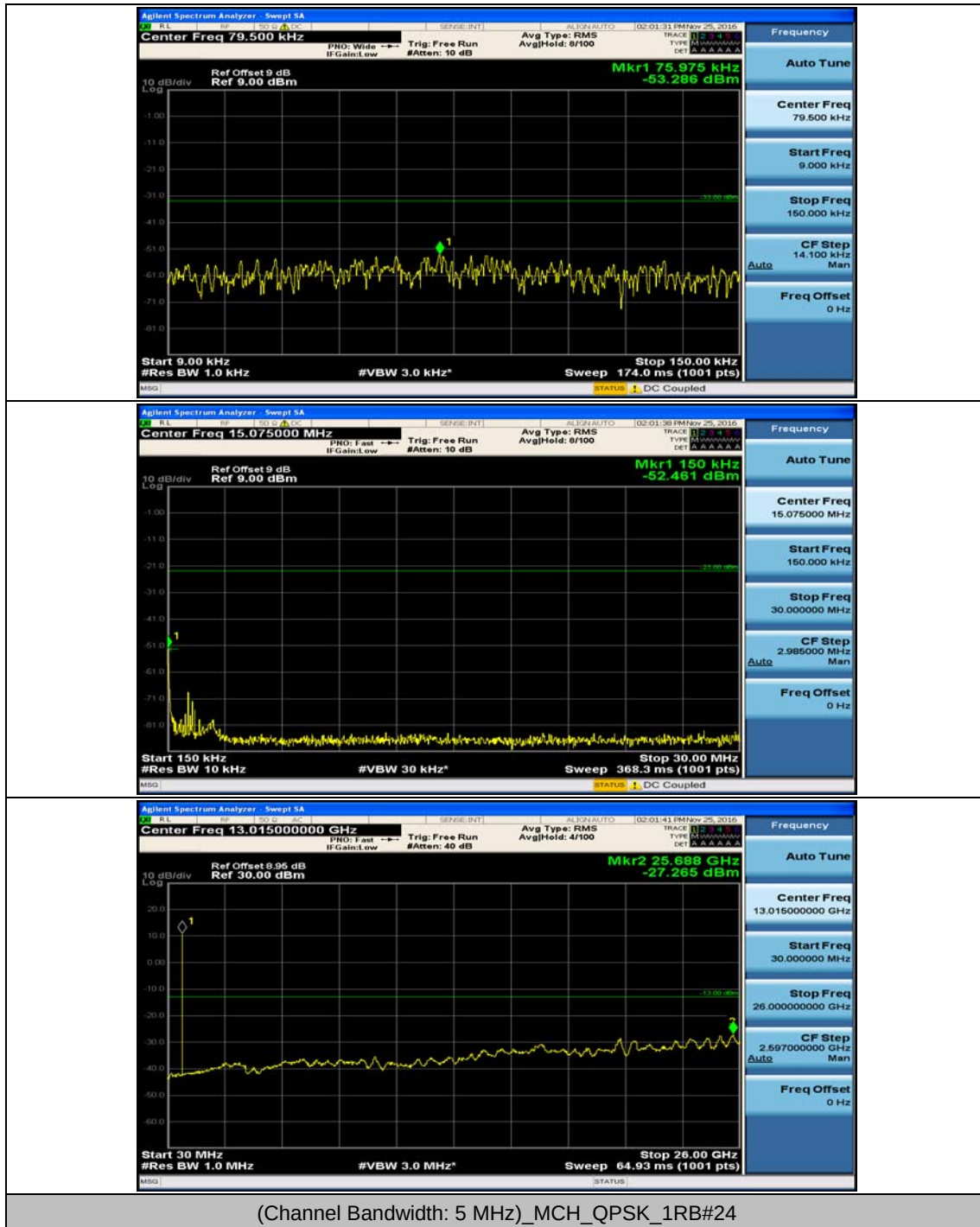


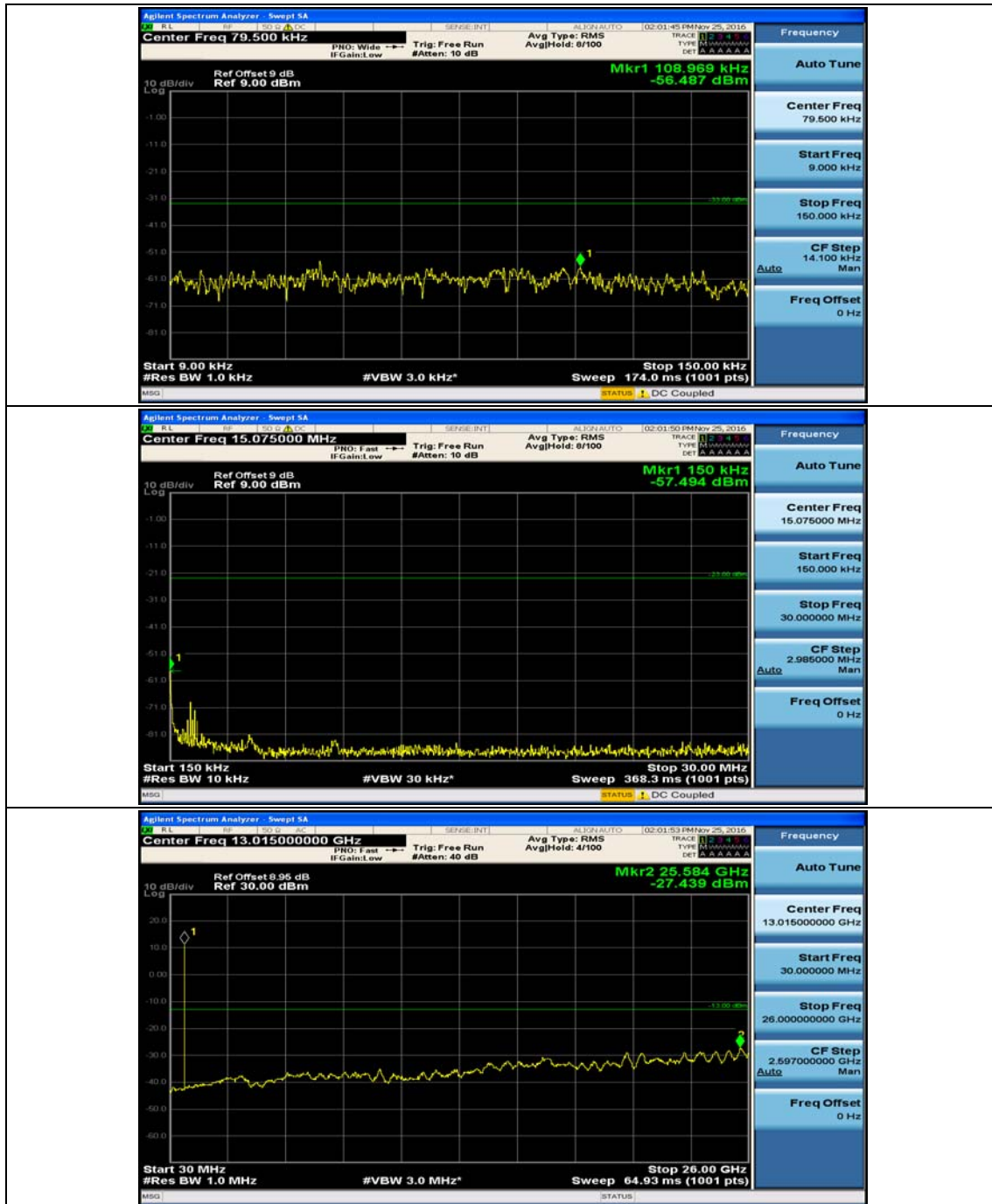


(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#0

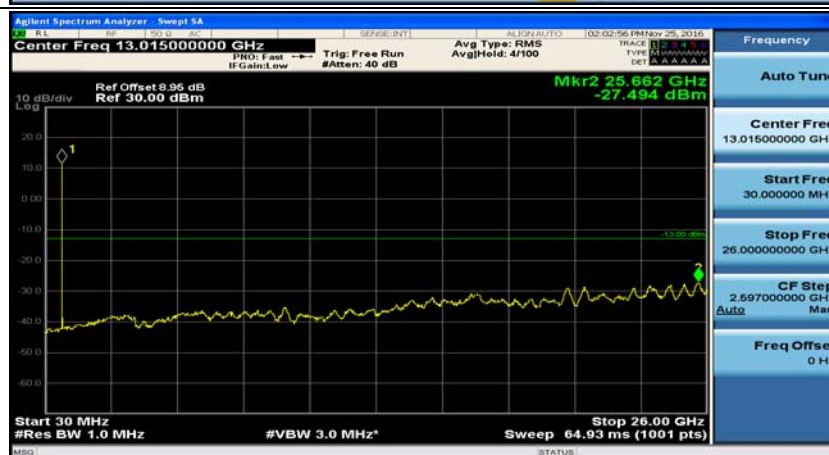
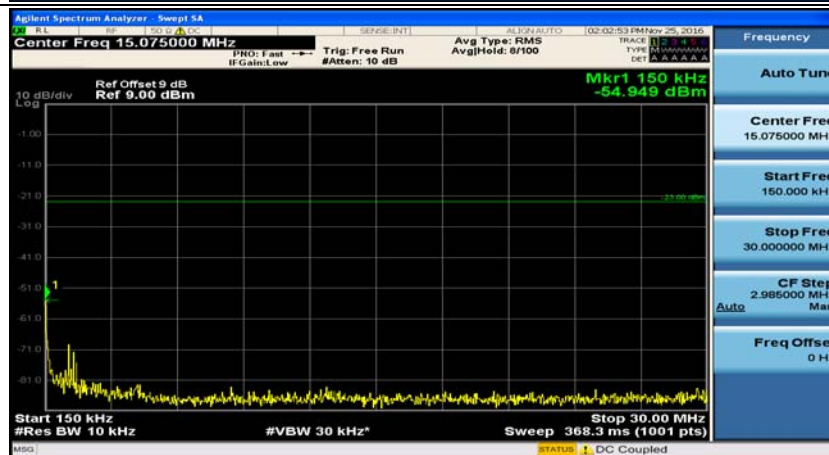
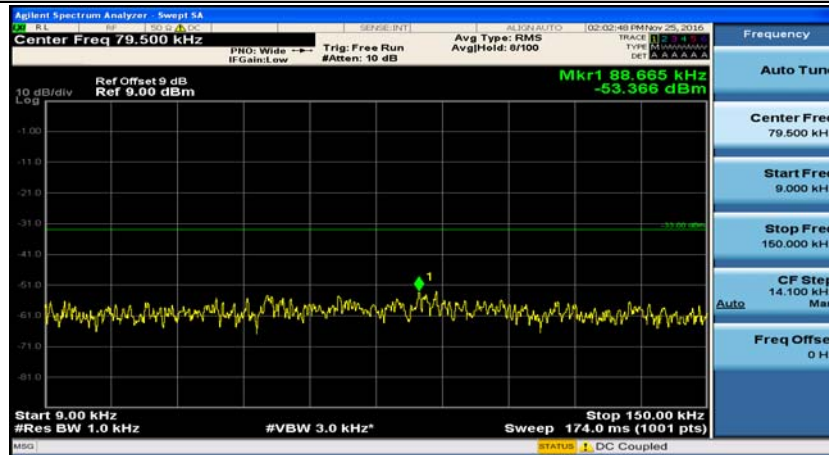


(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#12

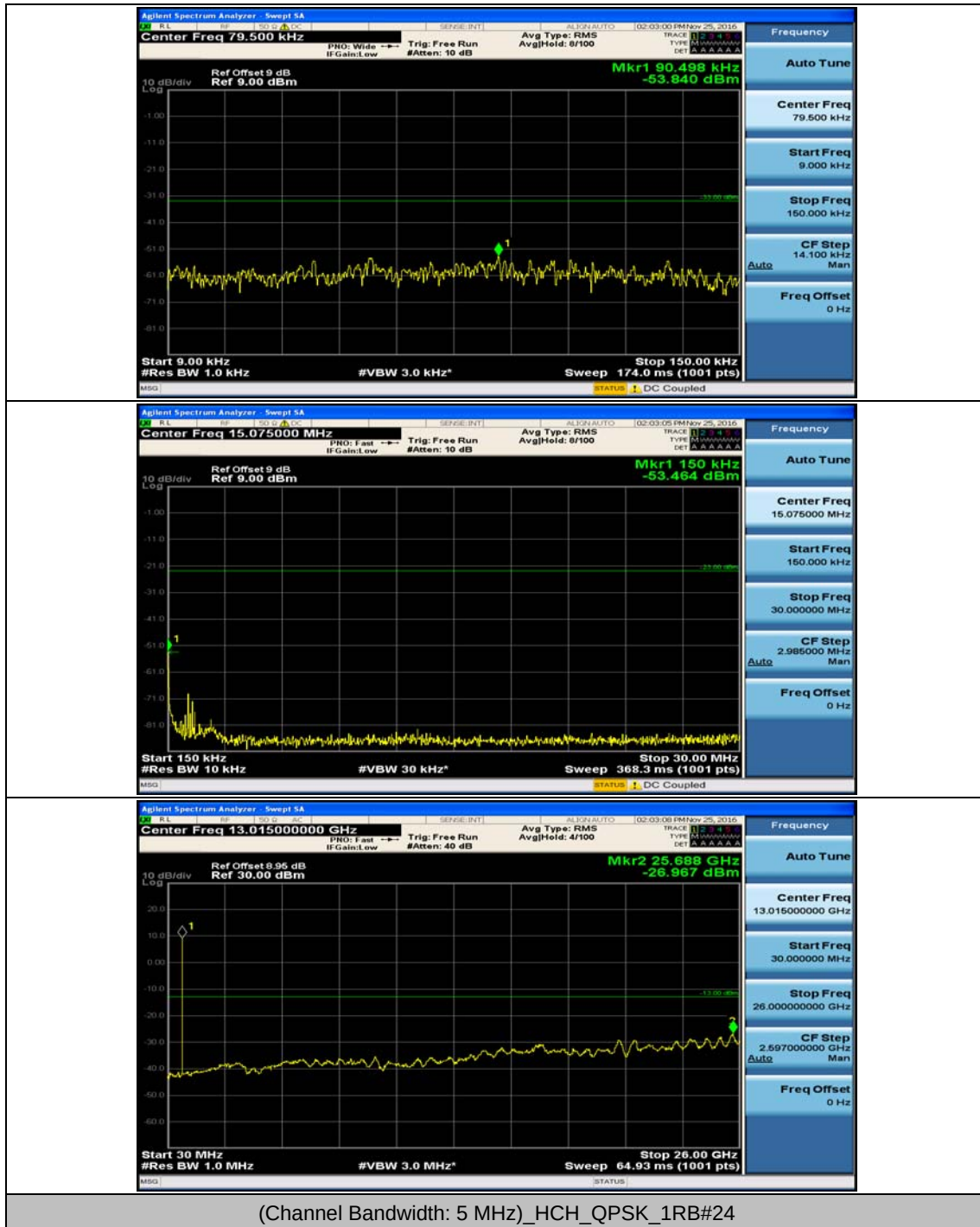


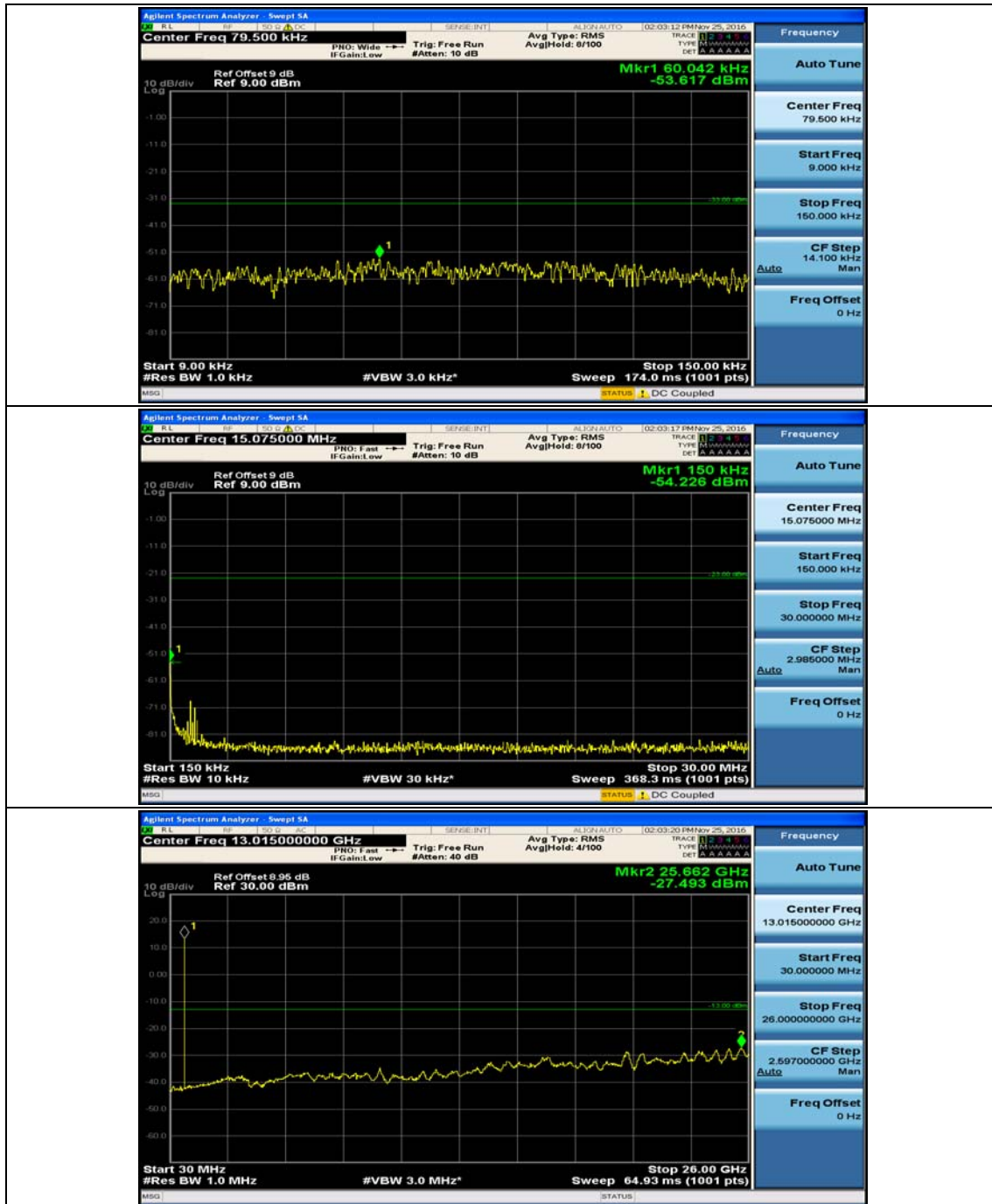


(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#0

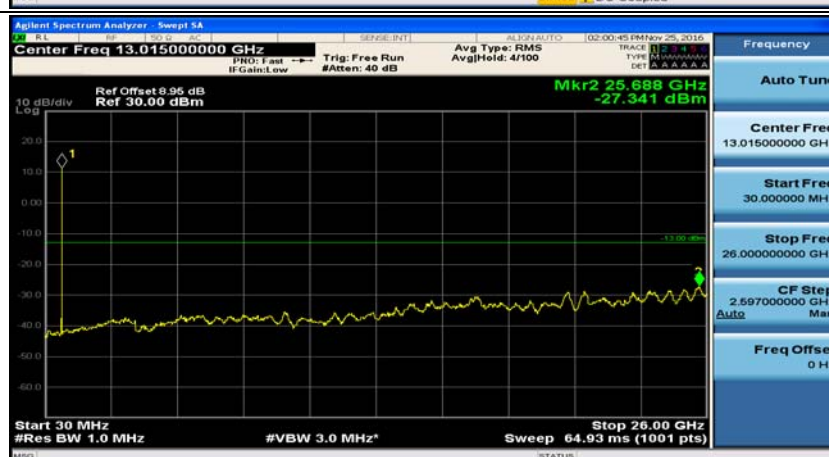
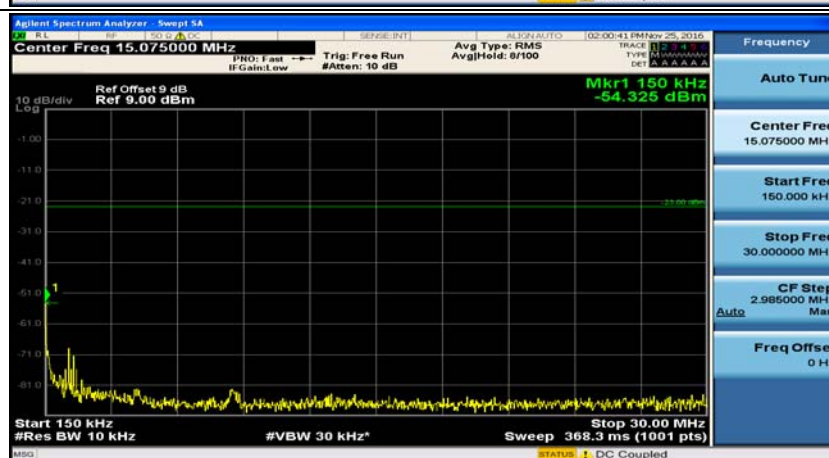
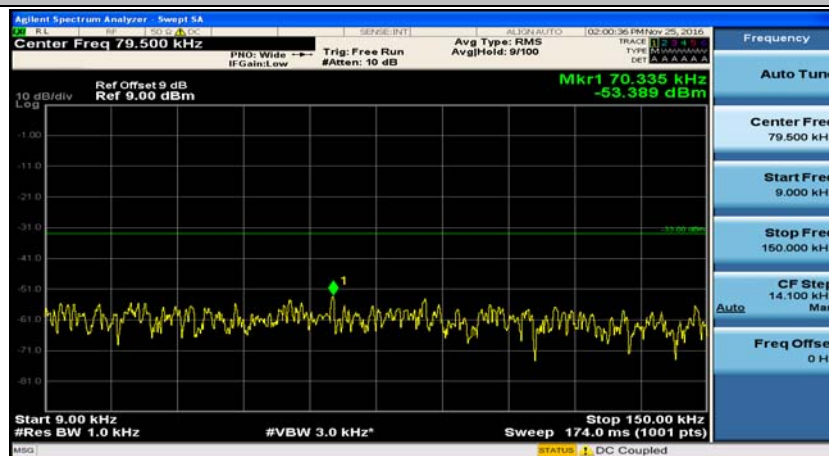


(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#12

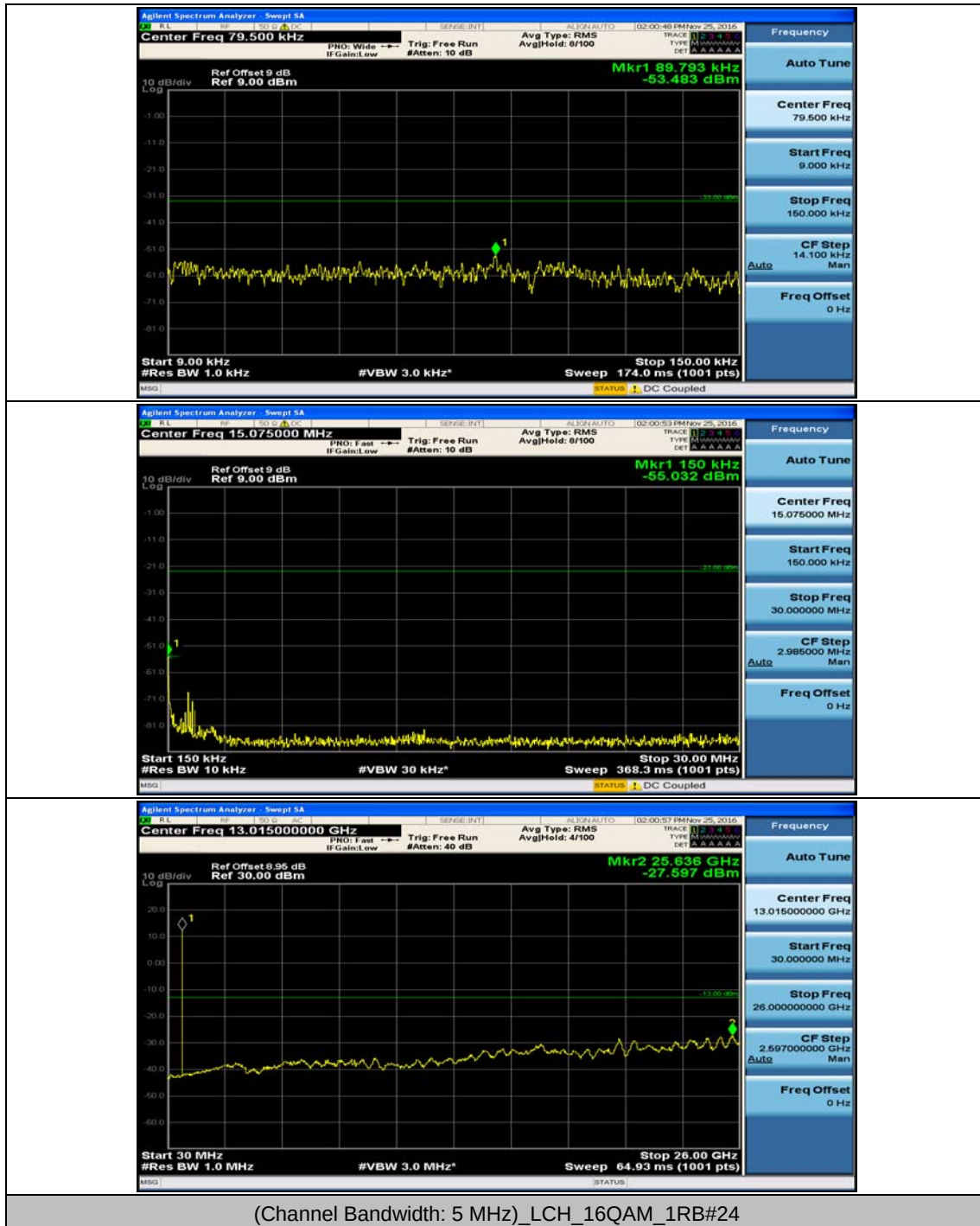


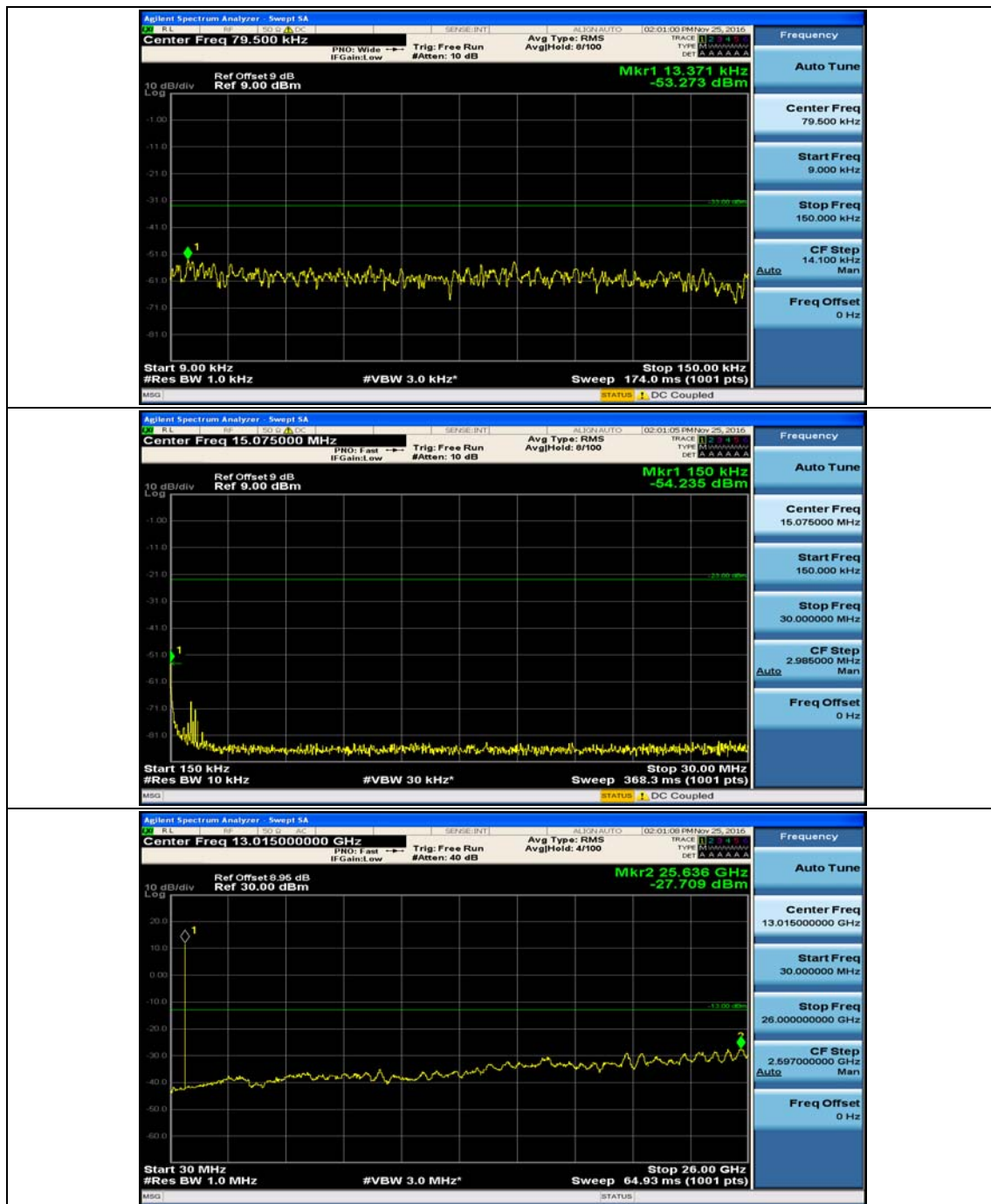


(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#0

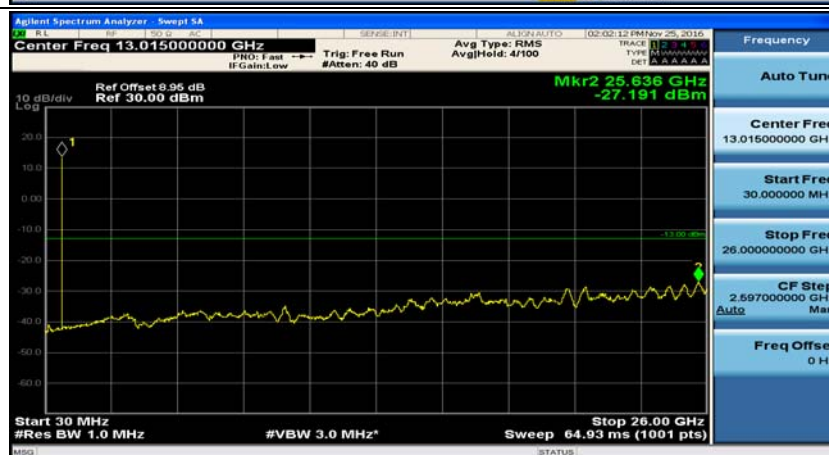
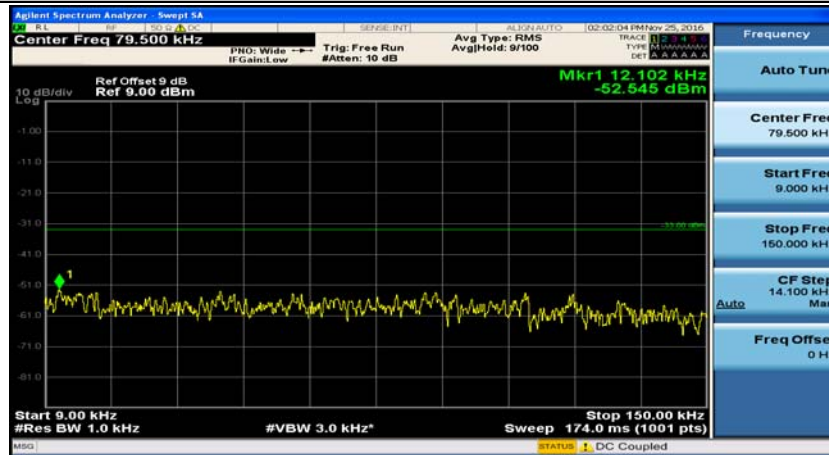


(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#12

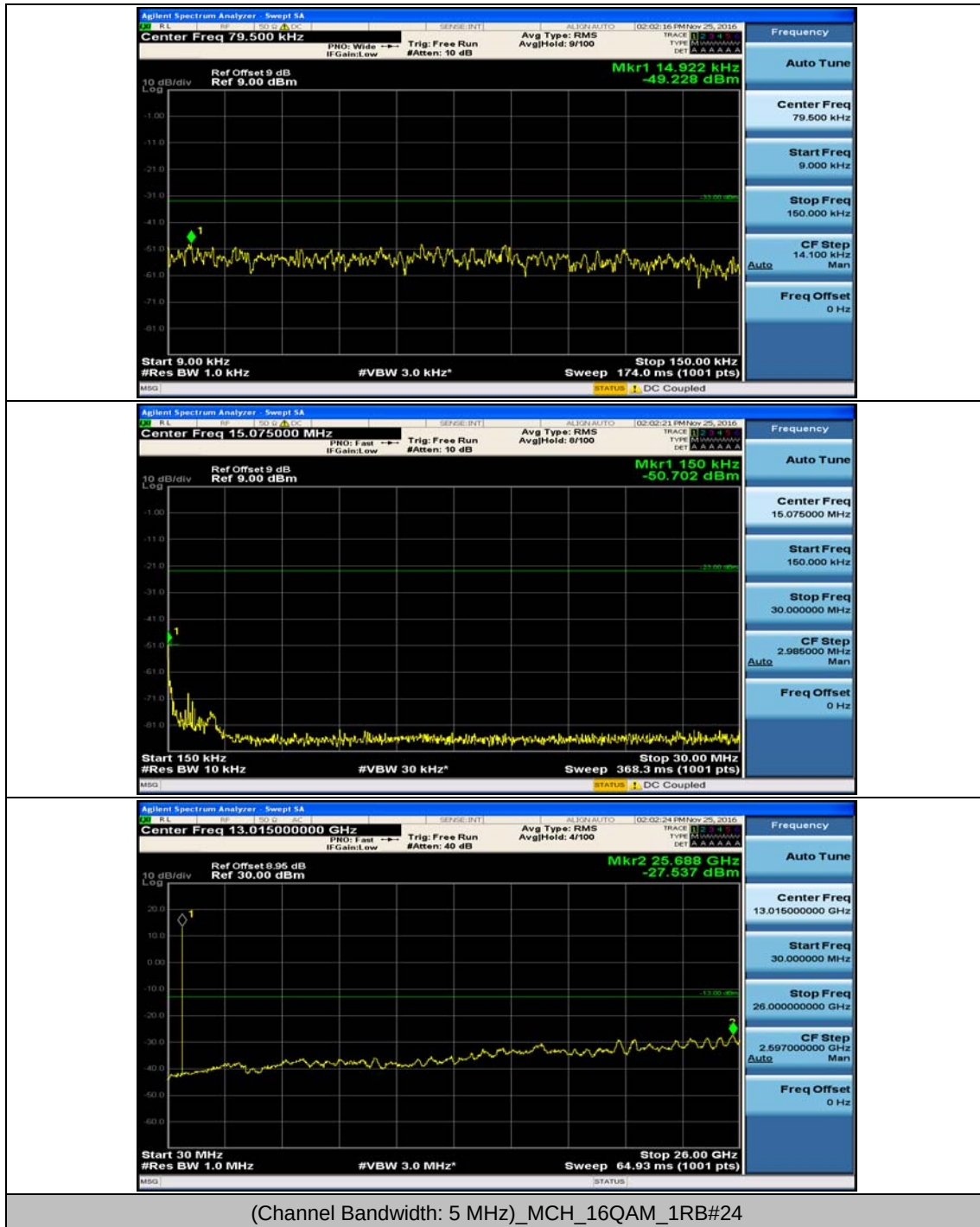


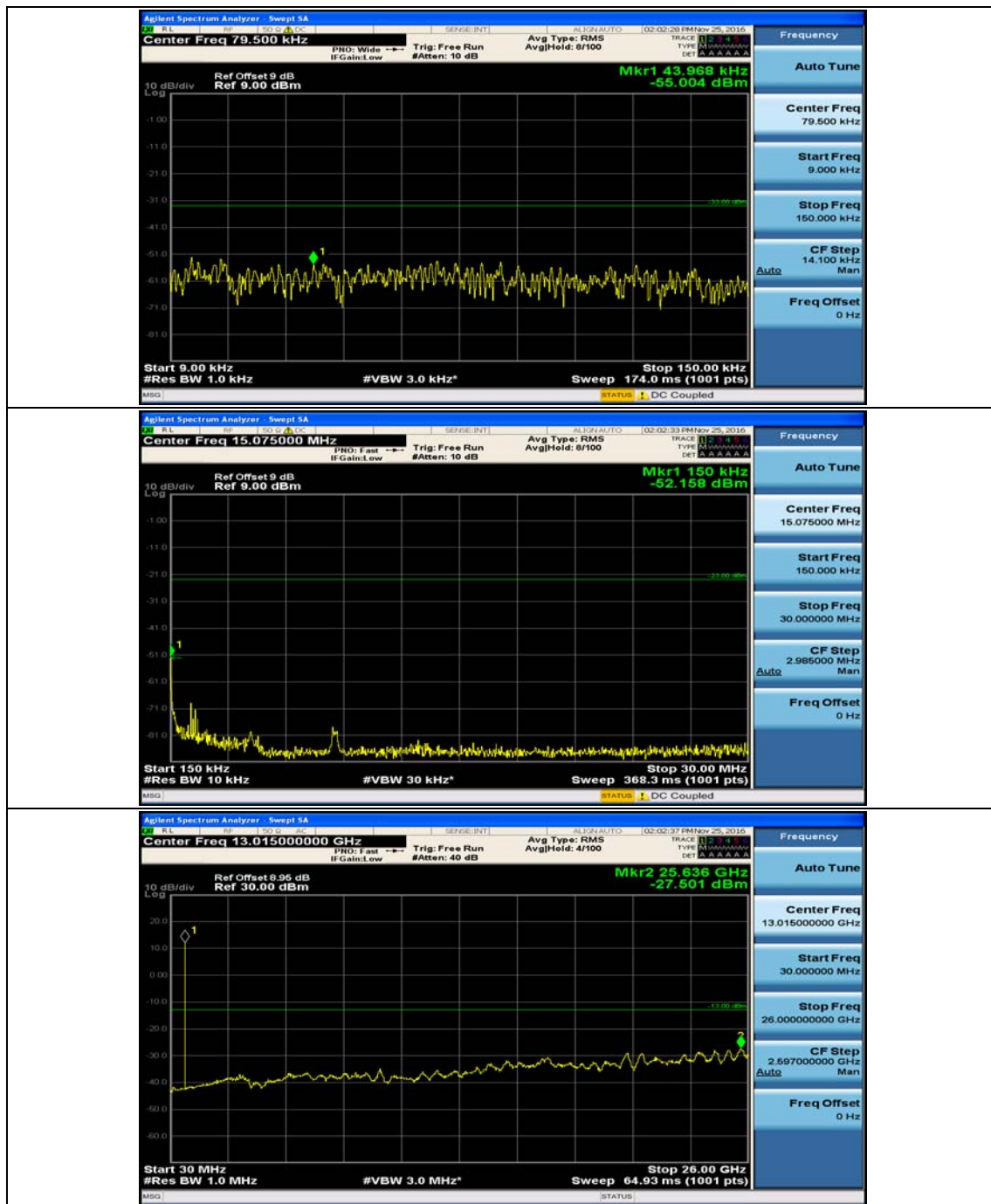


(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#0

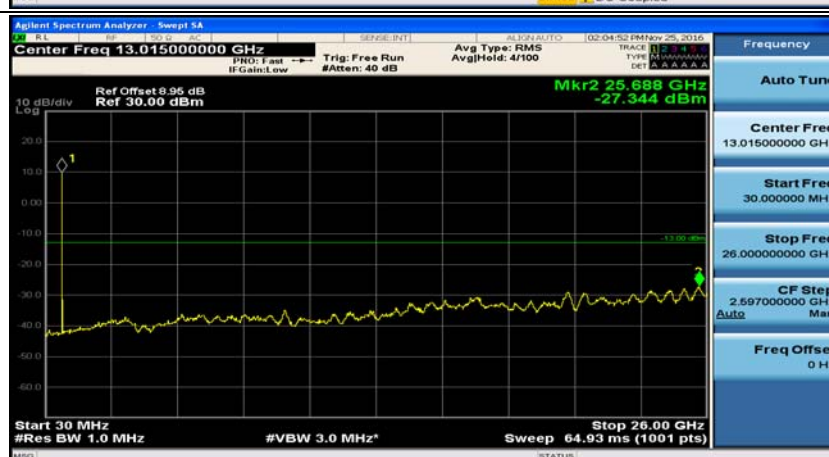
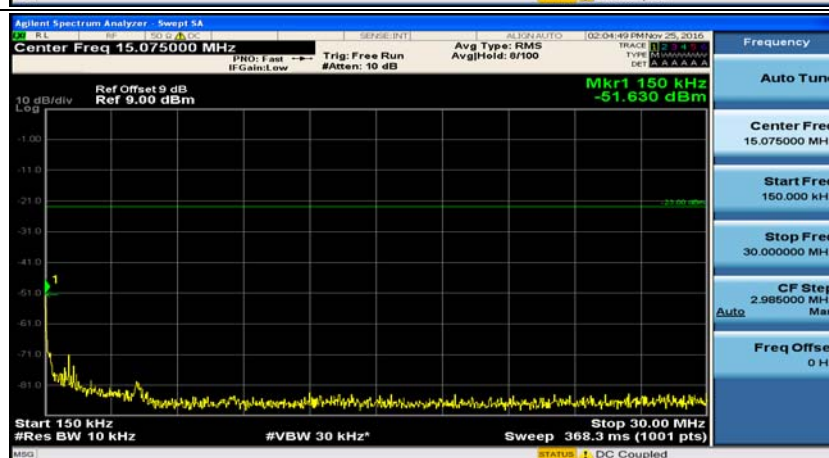
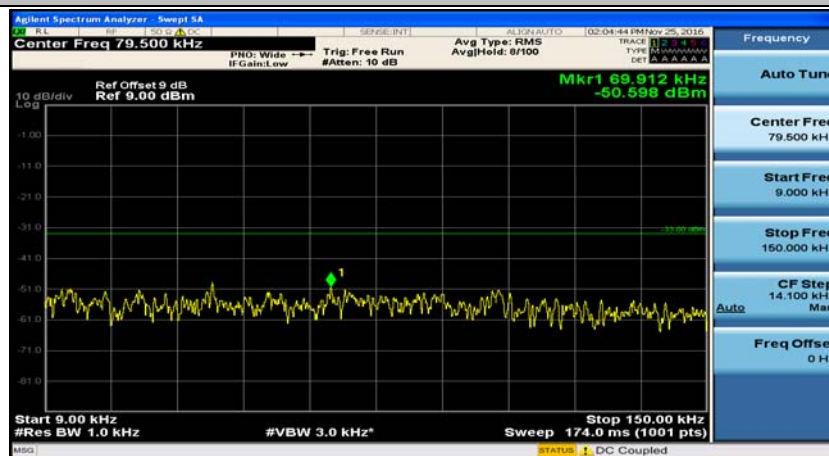


(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#12

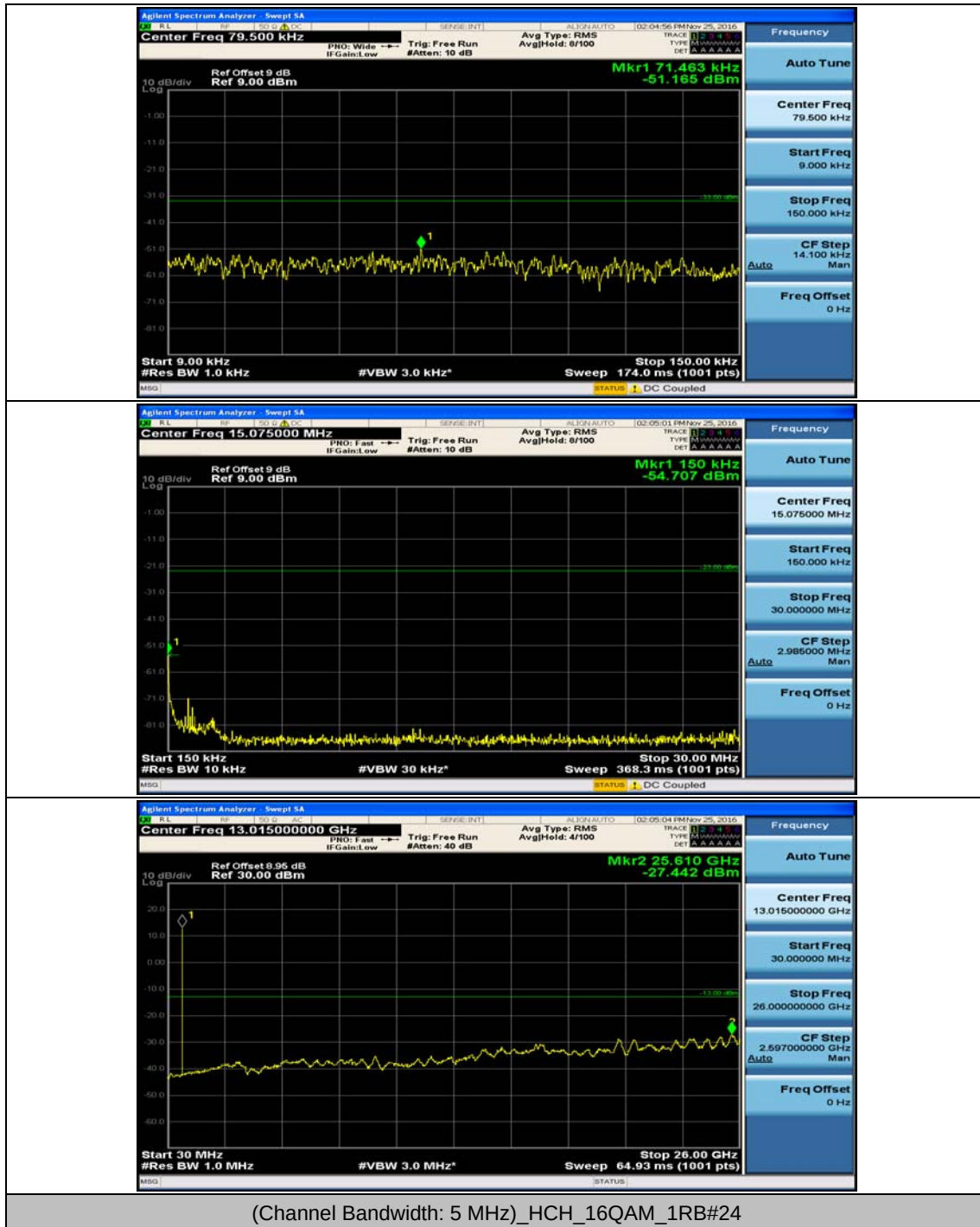


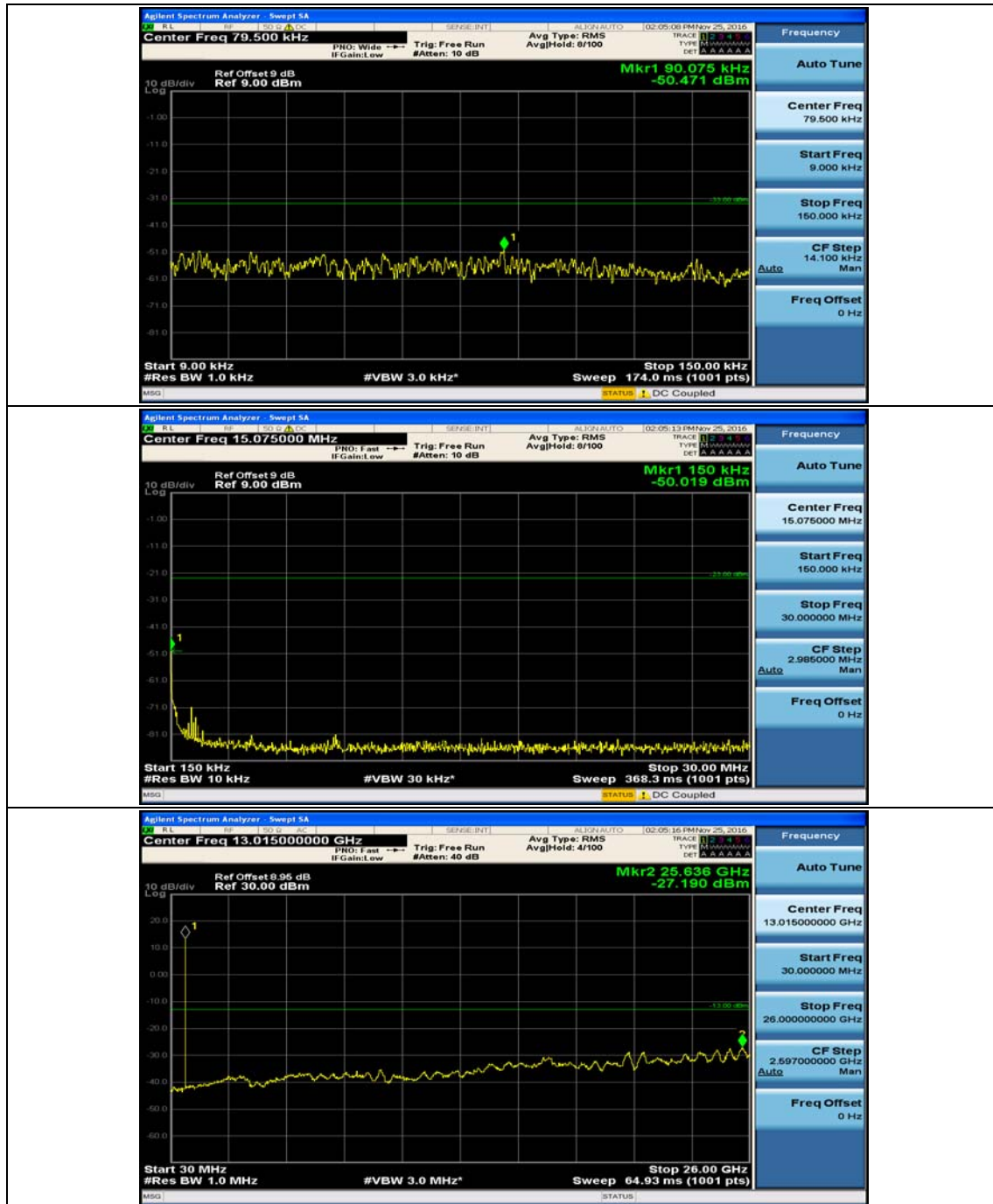


(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#0

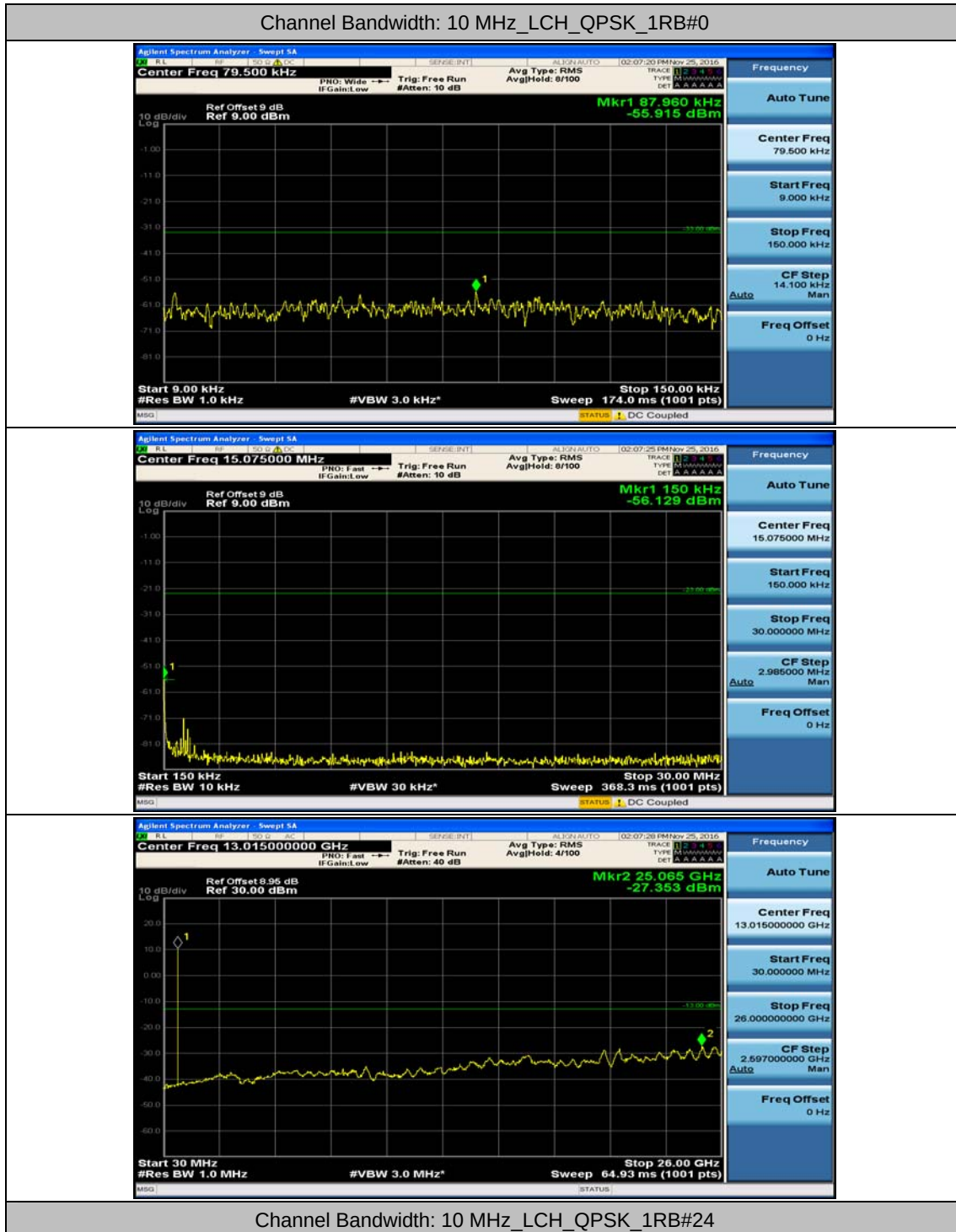


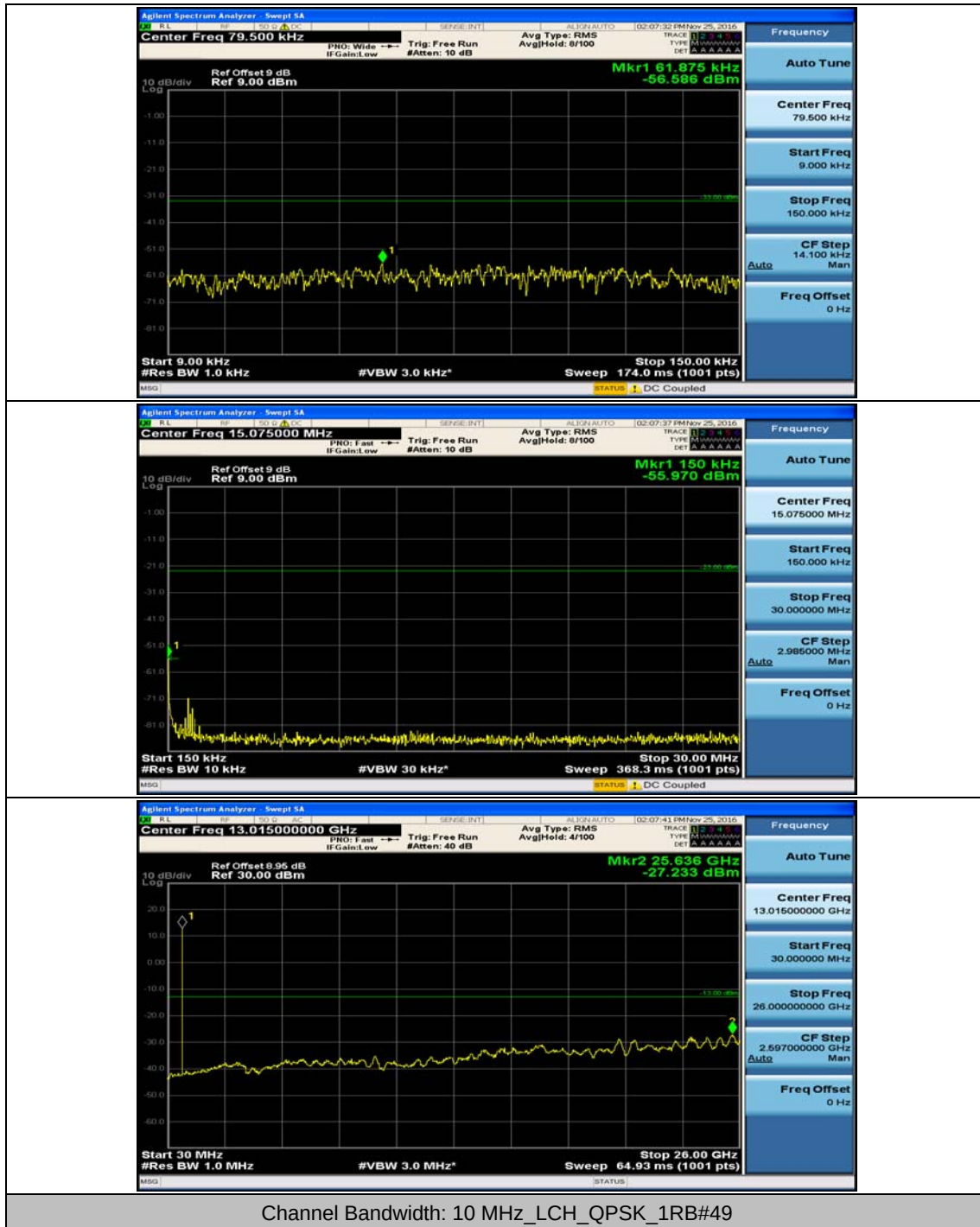
(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#12

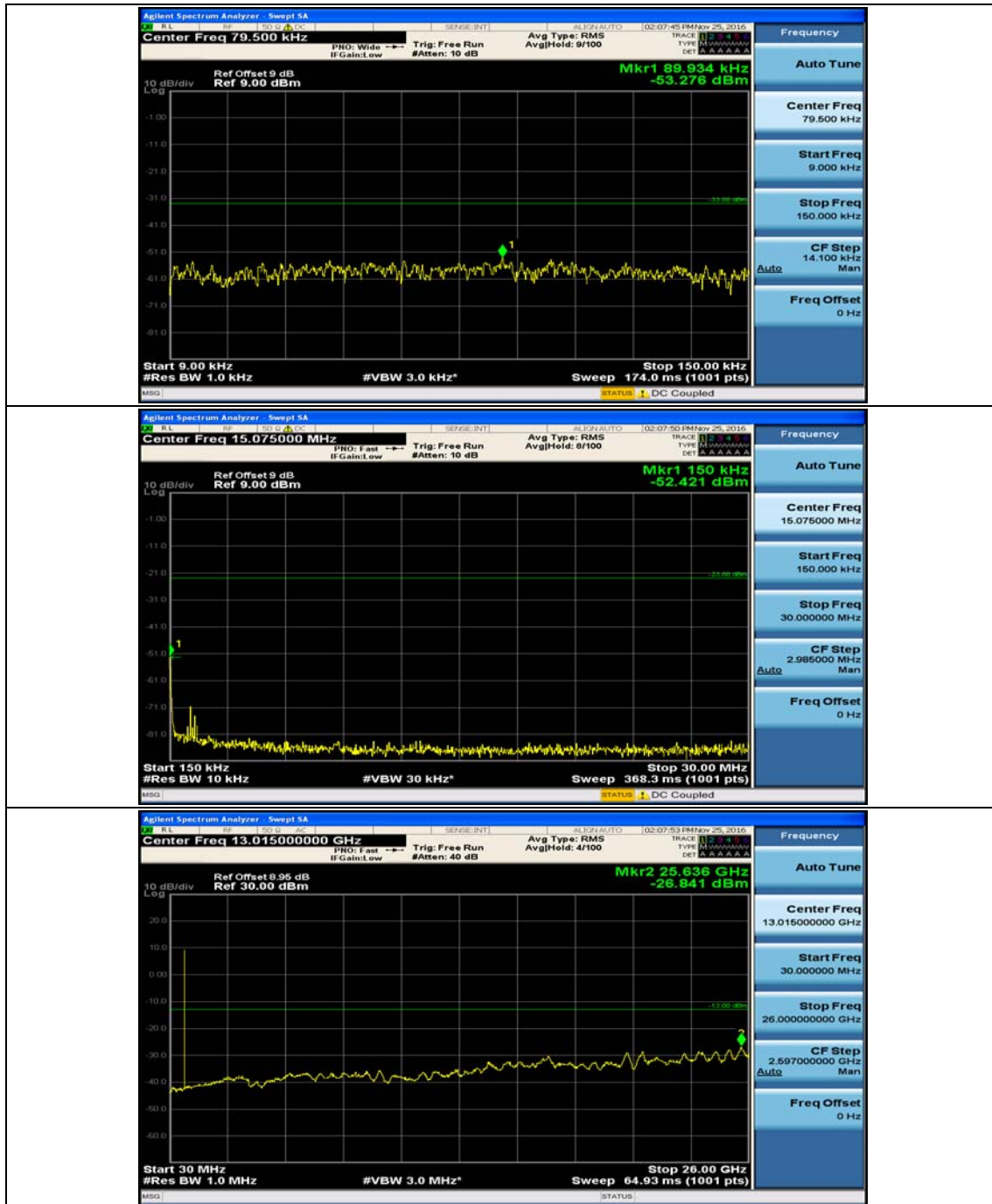




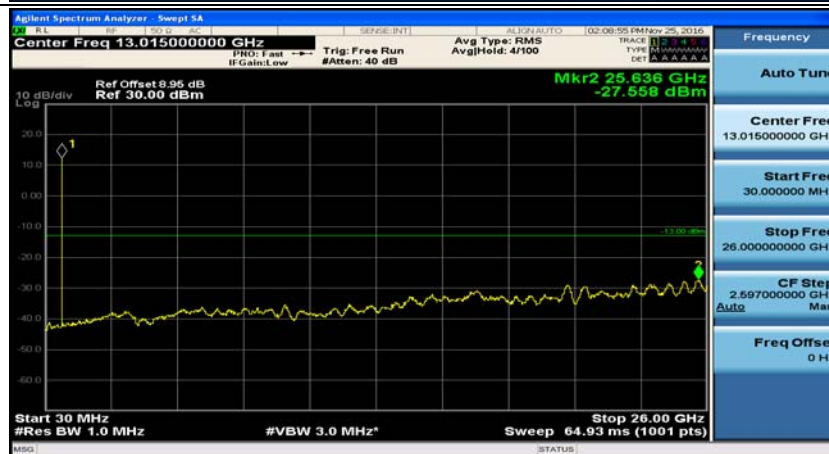
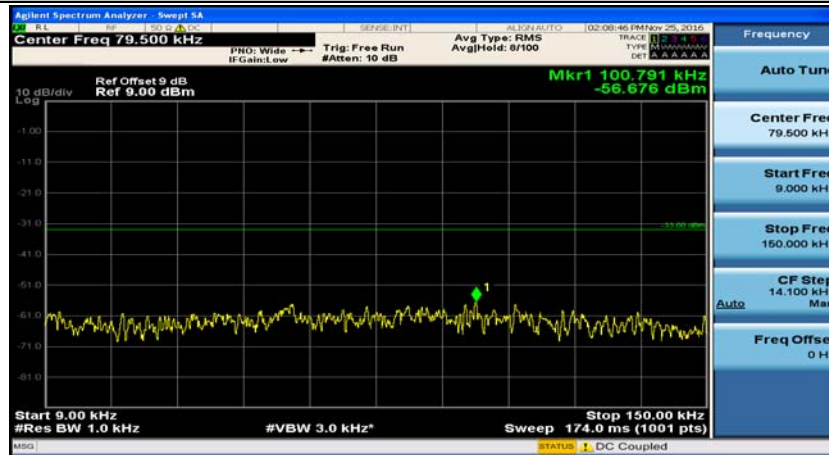
Channel Bandwidth: 10 MHz



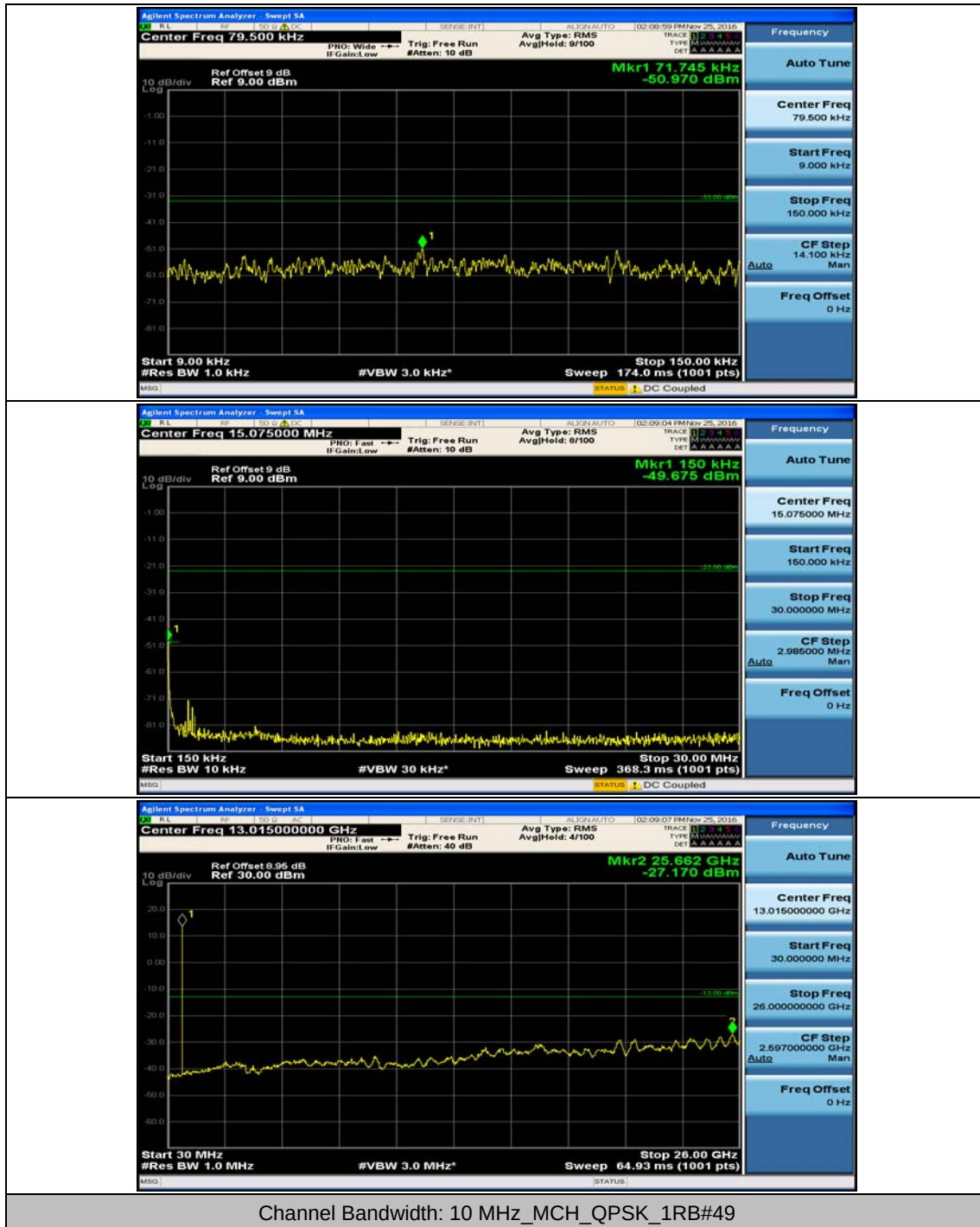


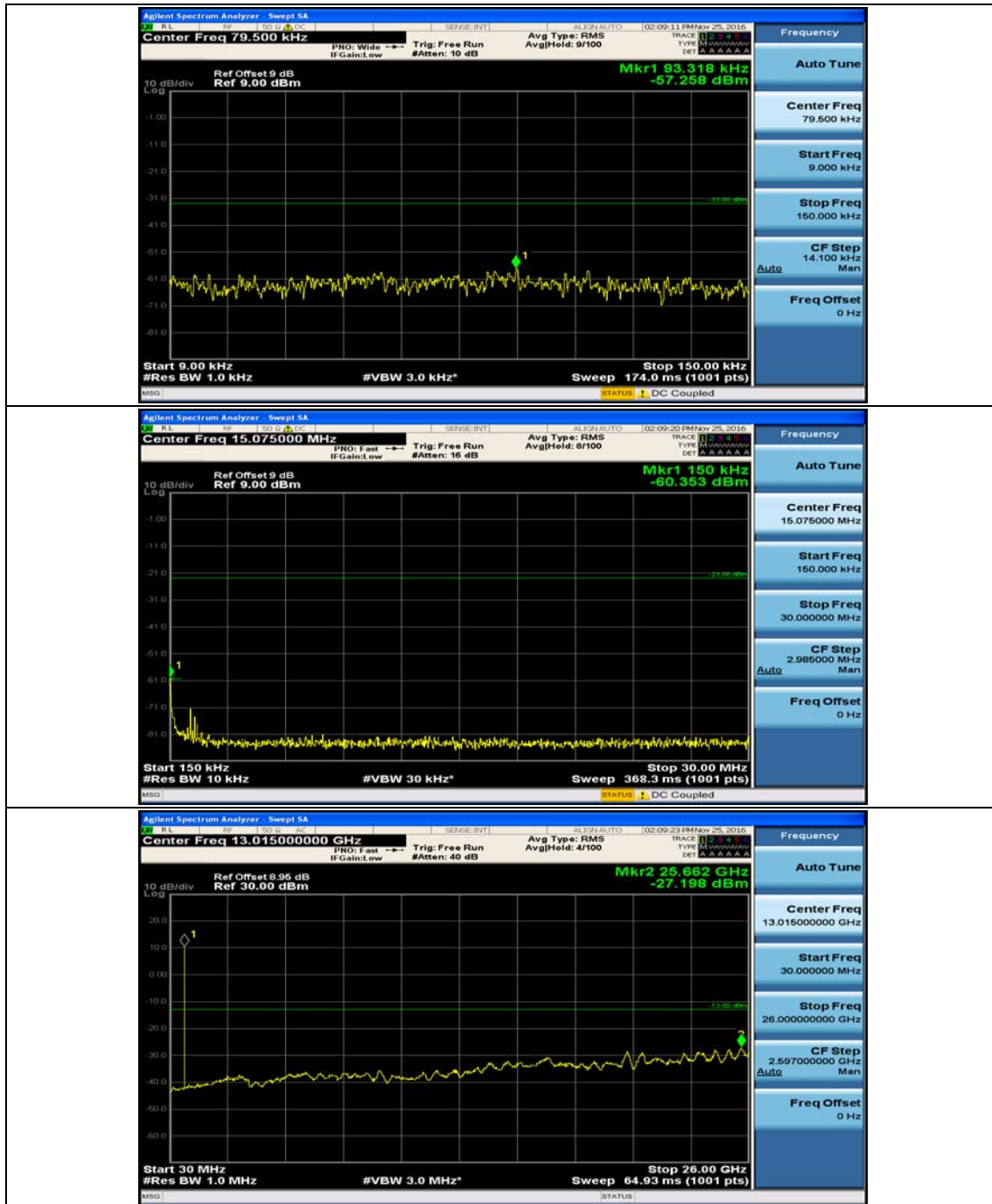


Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#0

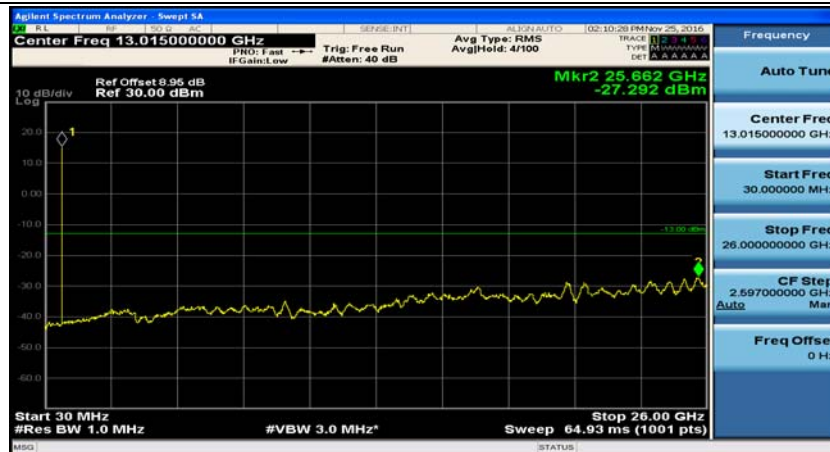
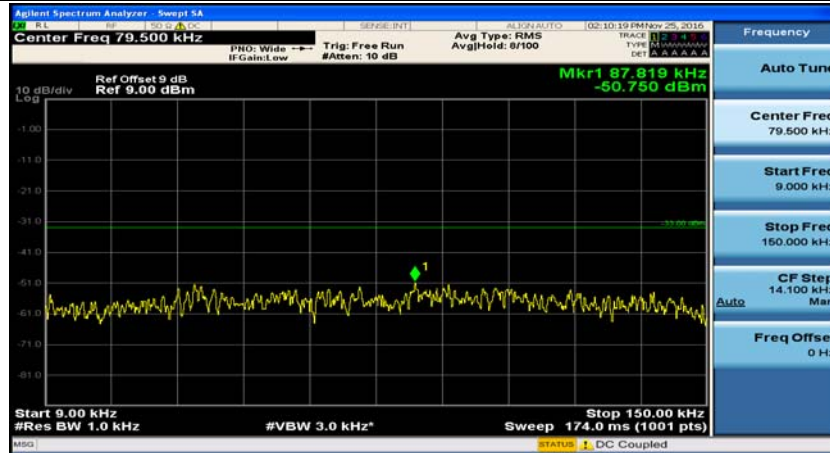


Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#24

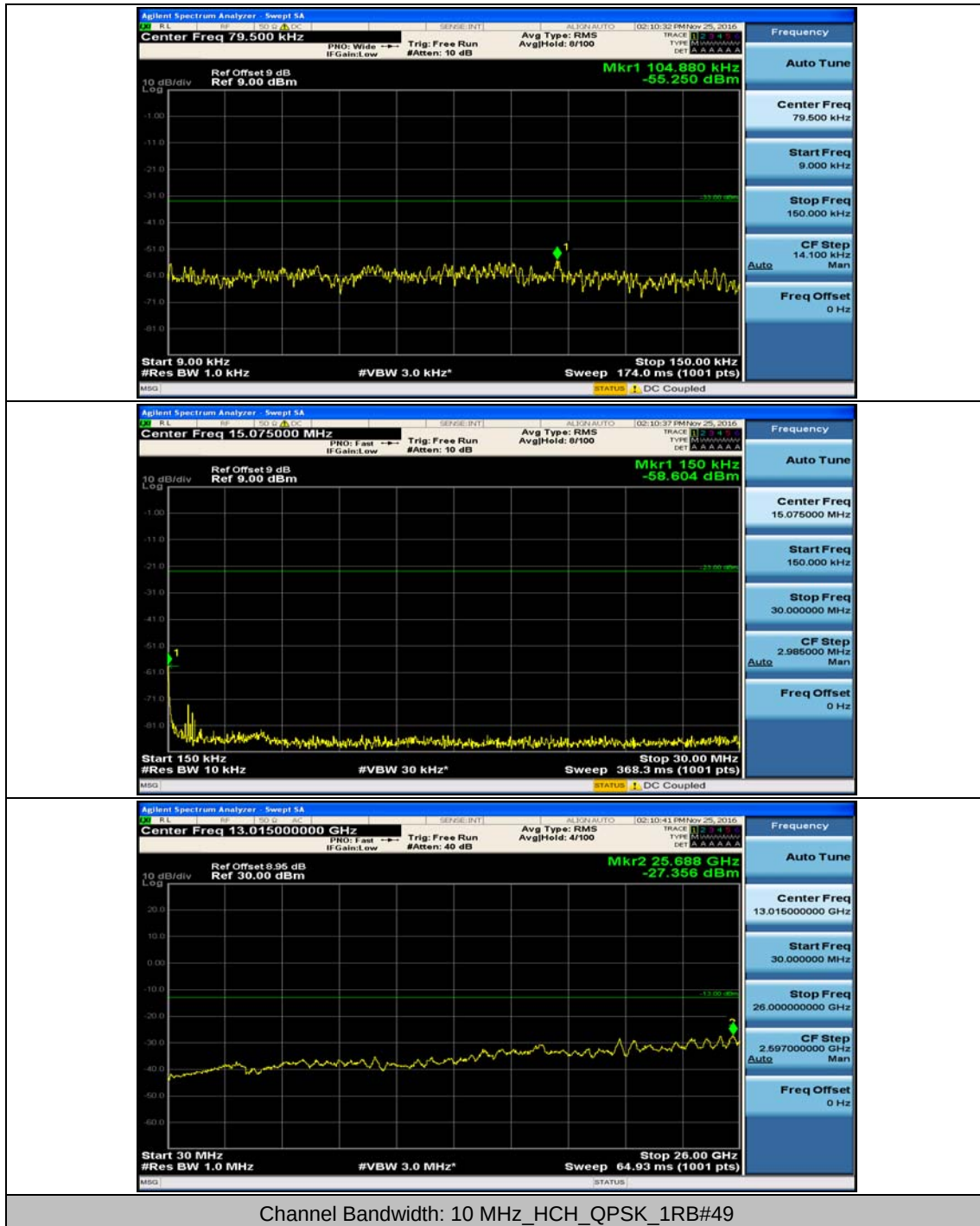


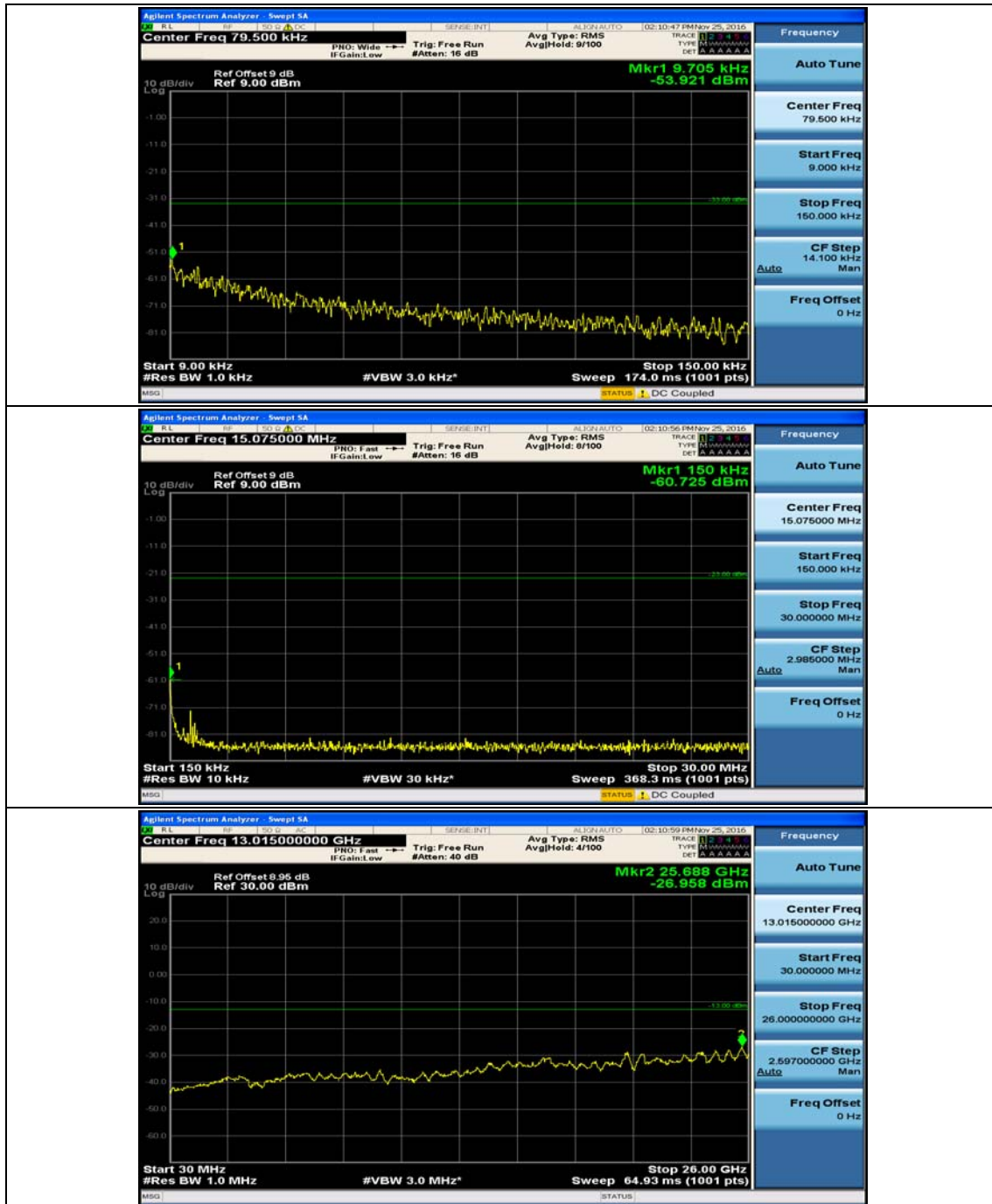


Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#0

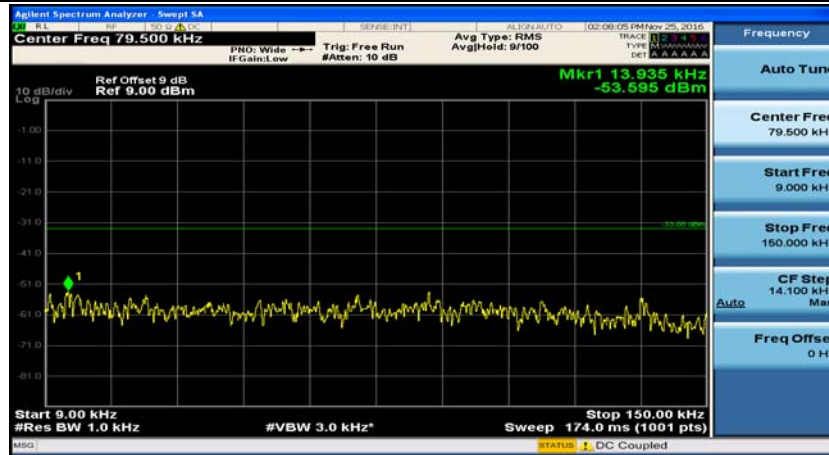


Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#24

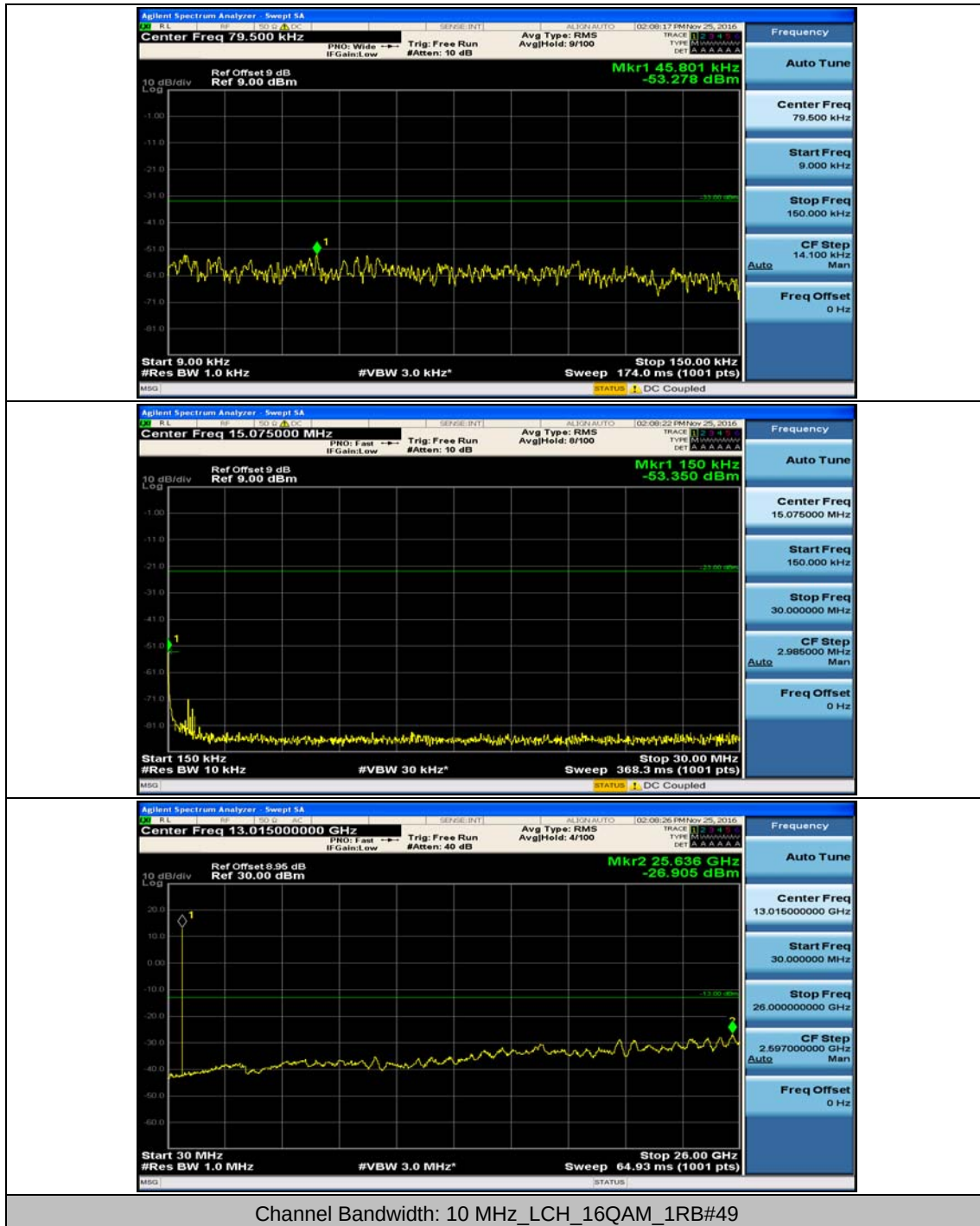


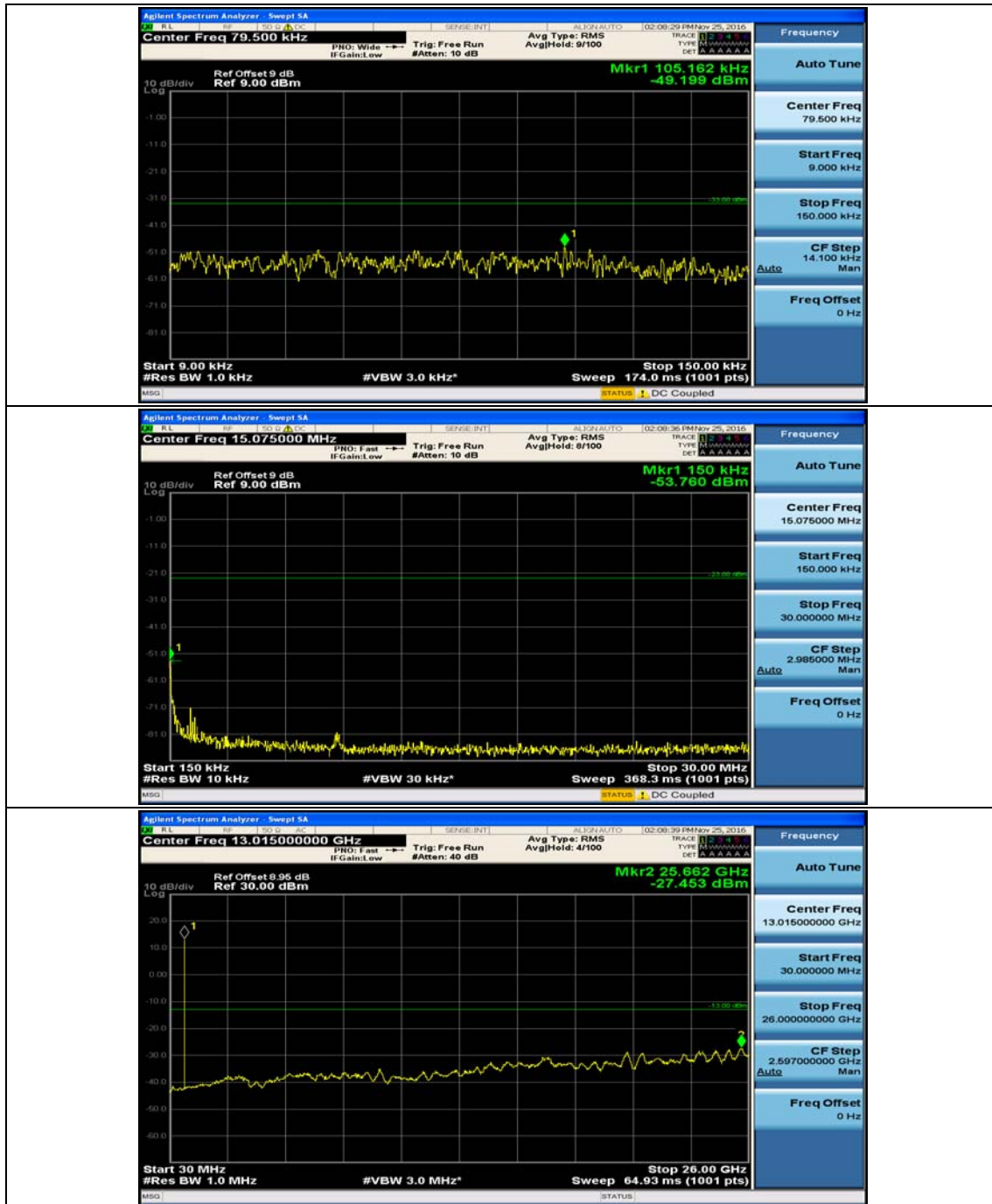


Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#0

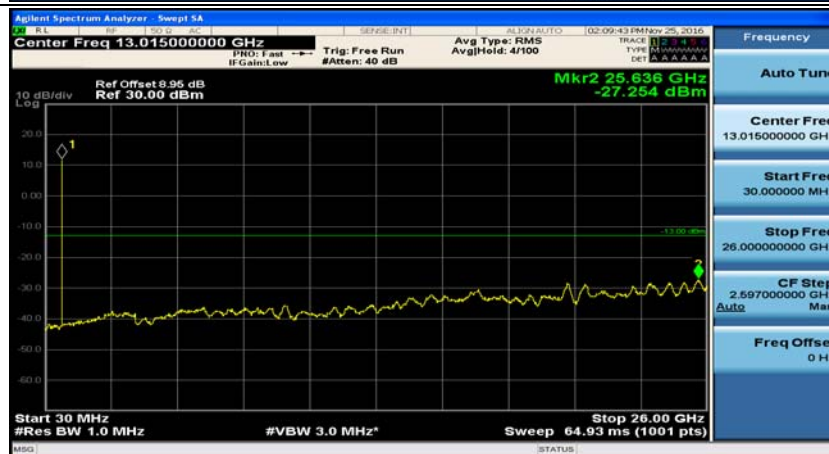
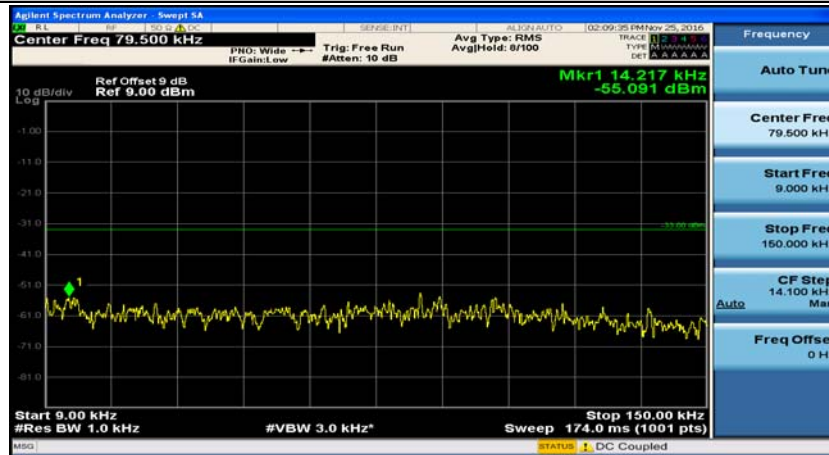


Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#24

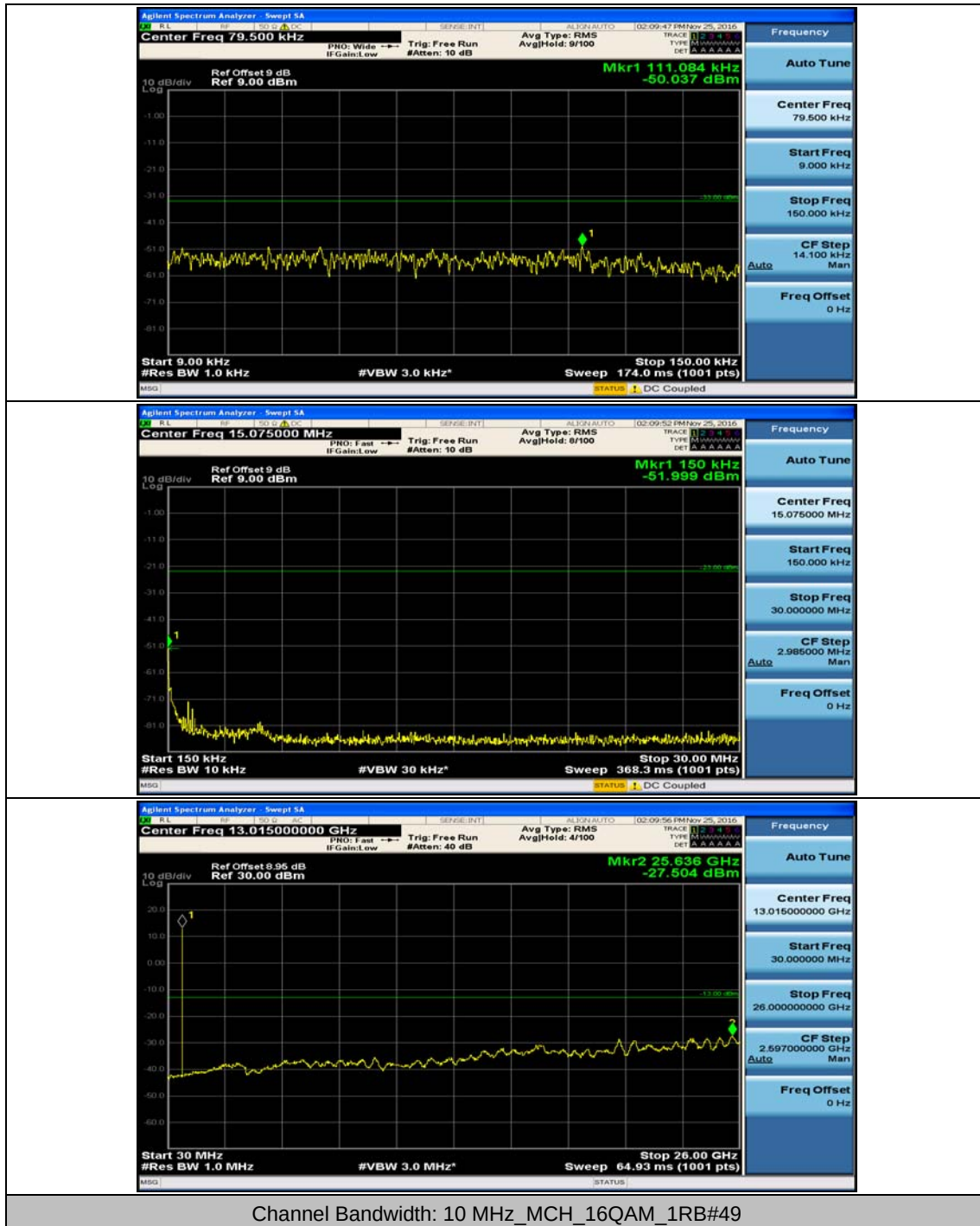


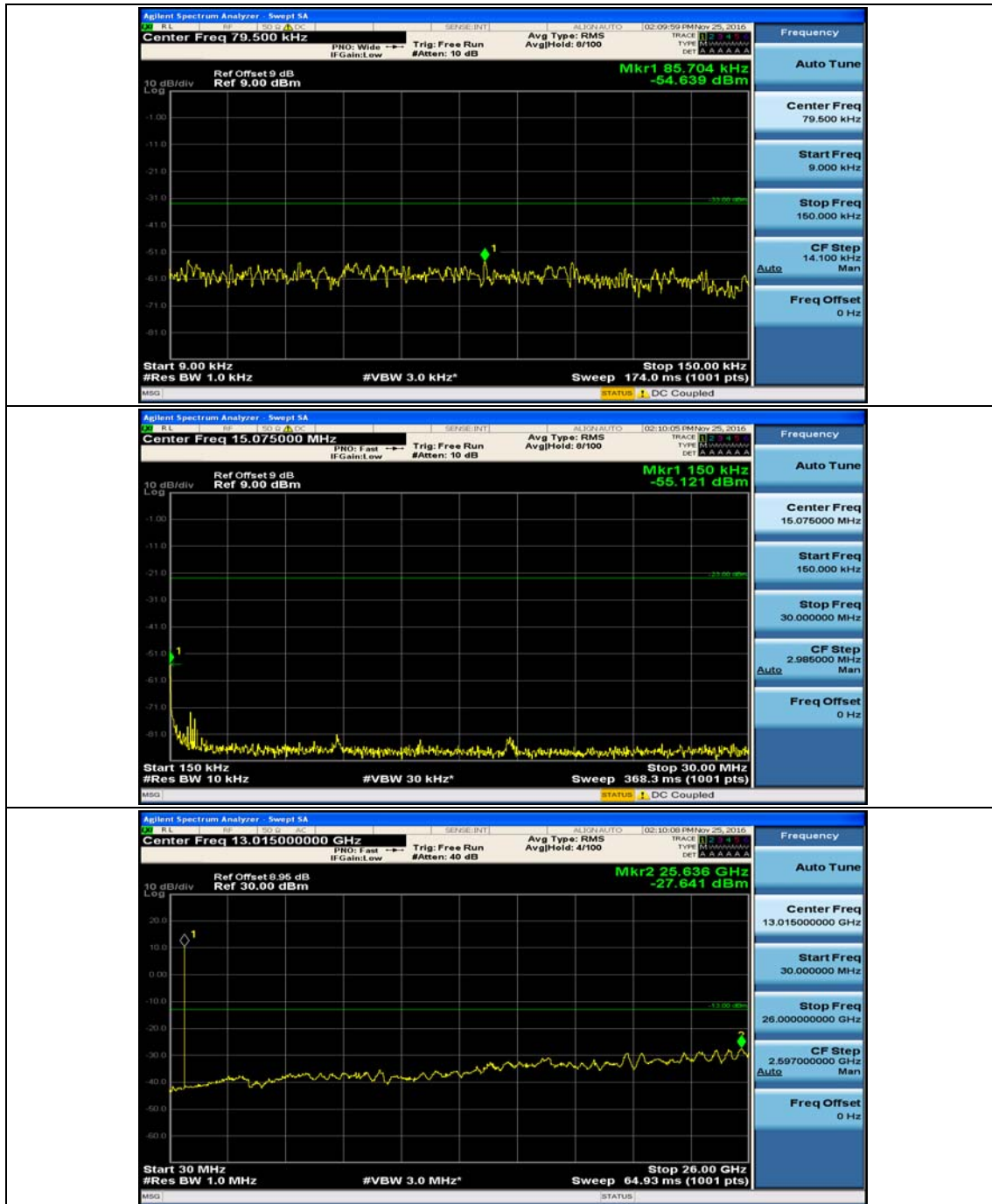


Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#0

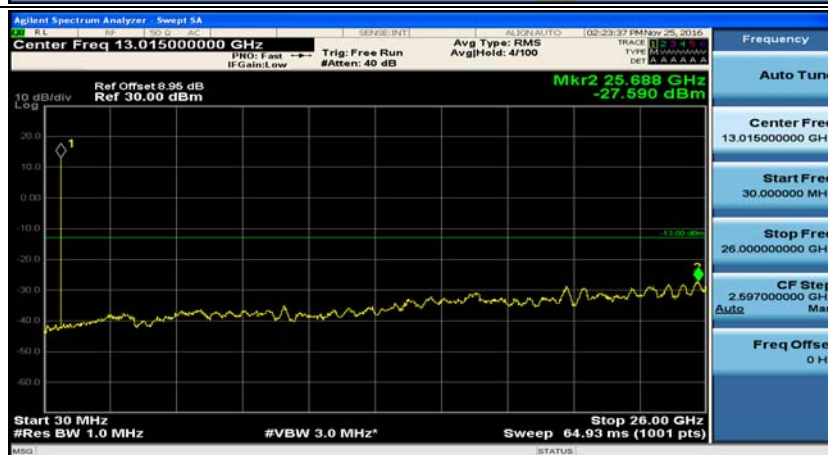
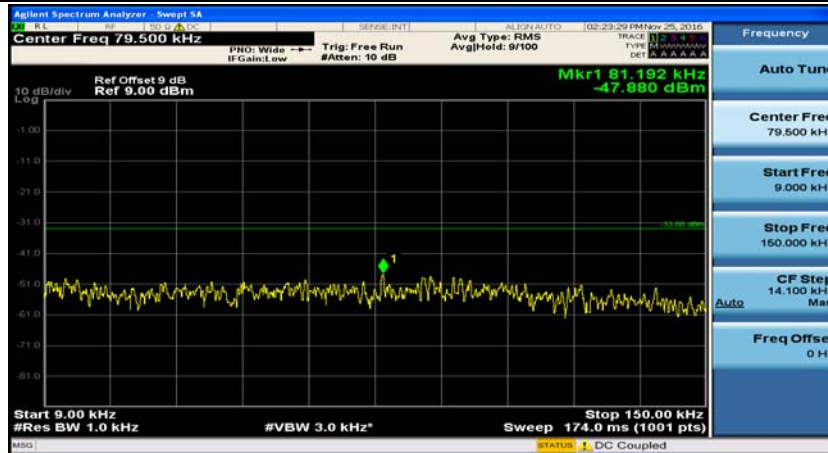


Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#24

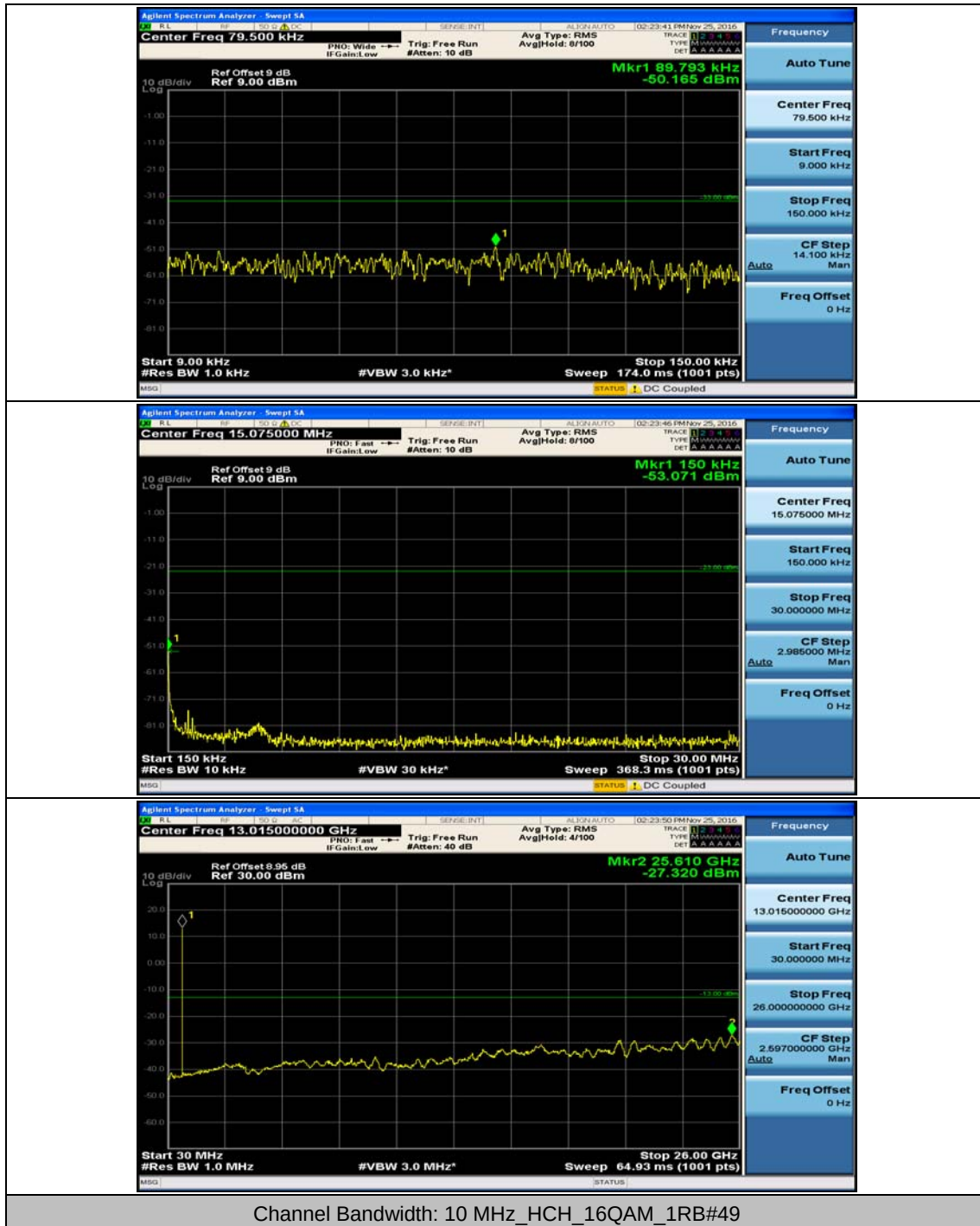


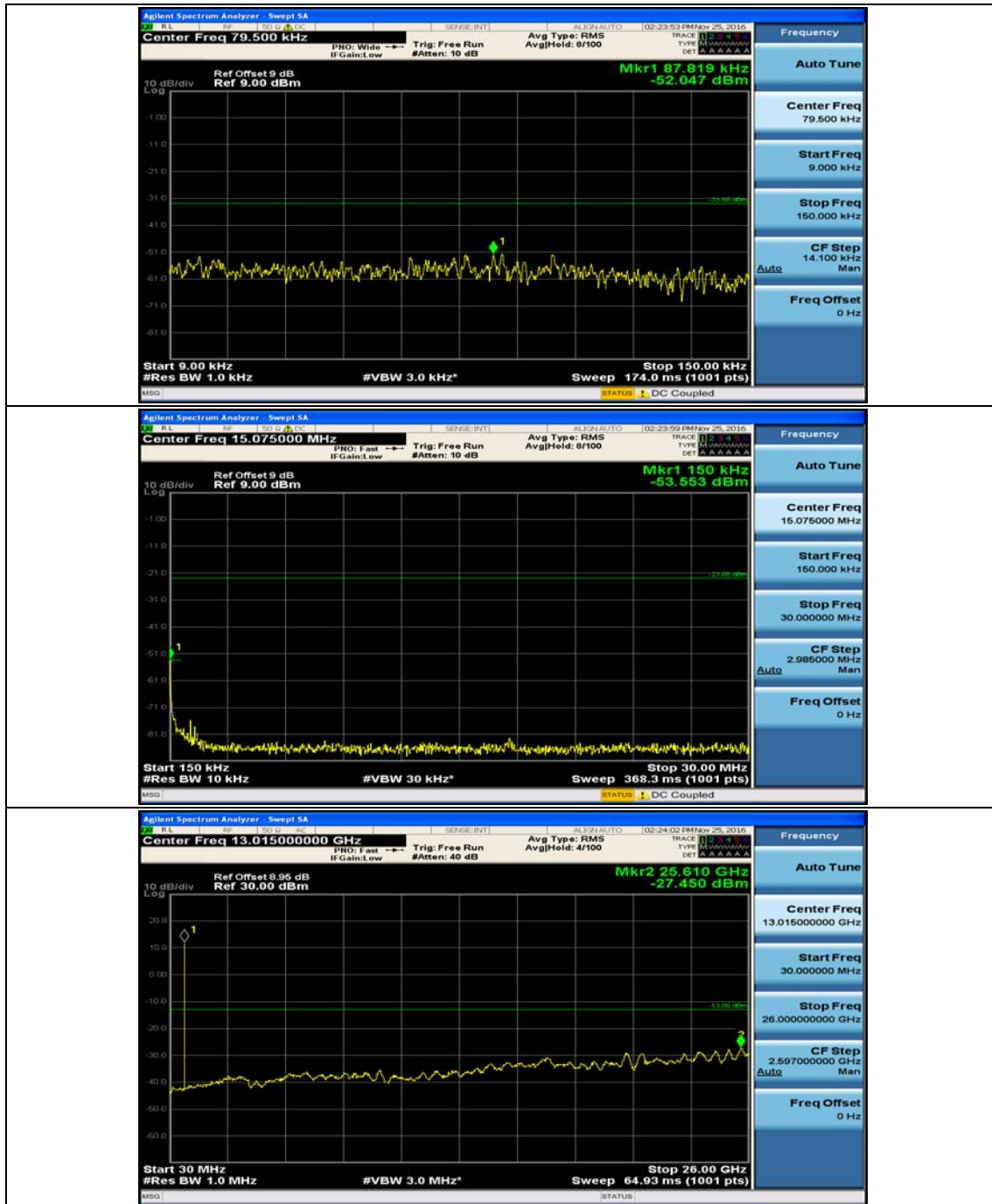


Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#0



Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#24





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	-1.54	-0.002195	± 2.5	PASS
		VN	TN	2.53	0.003607	± 2.5	PASS
		VH	TN	2.01	0.002865	± 2.5	PASS
	MCH	VL	TN	-0.88	-0.001244	± 2.5	PASS
		VN	TN	0.22	0.000311	± 2.5	PASS
		VH	TN	1.73	0.002445	± 2.5	PASS
	HCH	VL	TN	-0.5	-0.000701	± 2.5	PASS
		VN	TN	4.36	0.006111	± 2.5	PASS
		VH	TN	4.31	0.006041	± 2.5	PASS
16QAM	LCH	VL	TN	-1.98	-0.002823	± 2.5	PASS
		VN	TN	-0.45	-0.000641	± 2.5	PASS
		VH	TN	3.93	0.005602	± 2.5	PASS
	MCH	VL	TN	-1.48	-0.002092	± 2.5	PASS
		VN	TN	4.02	0.005682	± 2.5	PASS
		VH	TN	3.82	0.005399	± 2.5	PASS
	HCH	VL	TN	-1.64	-0.002299	± 2.5	PASS
		VN	TN	-0.41	-0.000575	± 2.5	PASS
		VH	TN	4.66	0.006531	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	1.71	0.002438	± 2.5	PASS
		VN	-20	0.19	0.000271	± 2.5	PASS
		VN	-10	2.41	0.003435	± 2.5	PASS
		VN	0	-1.74	-0.002480	± 2.5	PASS
		VN	10	0.59	0.000841	± 2.5	PASS
		VN	20	-0.86	-0.001226	± 2.5	PASS
		VN	30	2.49	0.003550	± 2.5	PASS
		VN	40	-1.51	-0.002153	± 2.5	PASS
		VN	50	-1.14	-0.001625	± 2.5	PASS
	MCH	VN	-30	0.99	0.001399	± 2.5	PASS
		VN	-20	2	0.002827	± 2.5	PASS

		VN	-10	4.26	0.006021	± 2.5	PASS
		VN	0	4.69	0.006629	± 2.5	PASS
		VN	10	4.19	0.005922	± 2.5	PASS
		VN	20	-0.97	-0.001371	± 2.5	PASS
		VN	30	-1.5	-0.002120	± 2.5	PASS
		VN	40	3.19	0.004509	± 2.5	PASS
		VN	50	4.96	0.007011	± 2.5	PASS
	HCH	VN	-30	1.45	0.002032	± 2.5	PASS
		VN	-20	1.92	0.002691	± 2.5	PASS
		VN	-10	4.12	0.005774	± 2.5	PASS
		VN	0	3.95	0.005536	± 2.5	PASS
		VN	10	2.23	0.003125	± 2.5	PASS
		VN	20	0.57	0.000799	± 2.5	PASS
		VN	30	0.44	0.000617	± 2.5	PASS
		VN	40	2.83	0.003966	± 2.5	PASS
		VN	50	-0.31	-0.000434	± 2.5	PASS
16QAM	LCH	VN	-30	1.47	0.002096	± 2.5	PASS
		VN	-20	1.64	0.002338	± 2.5	PASS
		VN	-10	-0.25	-0.000356	± 2.5	PASS
		VN	0	2.96	0.004220	± 2.5	PASS
		VN	10	-1.82	-0.002594	± 2.5	PASS
		VN	20	4.96	0.007071	± 2.5	PASS
		VN	30	1.39	0.001981	± 2.5	PASS
		VN	40	3.87	0.005517	± 2.5	PASS
		VN	50	1.4	0.001996	± 2.5	PASS
	MCH	VN	-30	4.62	0.006530	± 2.5	PASS
		VN	-20	3.32	0.004693	± 2.5	PASS
		VN	-10	4.24	0.005993	± 2.5	PASS
		VN	0	2.13	0.003011	± 2.5	PASS
		VN	10	4.84	0.006841	± 2.5	PASS
		VN	20	3.22	0.004551	± 2.5	PASS
		VN	30	-0.35	-0.000495	± 2.5	PASS
		VN	40	2.72	0.003845	± 2.5	PASS
		VN	50	2.6	0.003675	± 2.5	PASS
	HCH	VN	-30	-1.19	-0.001668	± 2.5	PASS
		VN	-20	-0.72	-0.001009	± 2.5	PASS
		VN	-10	3.62	0.007702	± 2.5	PASS
		VN	0	3.87	0.005424	± 2.5	PASS
		VN	10	-1.89	-0.002649	± 2.5	PASS
		VN	20	-1.05	-0.001472	± 2.5	PASS
		VN	30	1.26	0.001766	± 2.5	PASS

		VN	40	4.86	0.006811	± 2.5	PASS
		VN	50	-0.75	-0.001051	± 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	2.53	0.003594	± 2.5	PASS
		VN	TN	-0.76	-0.001080	± 2.5	PASS
		VH	TN	2.47	0.003509	± 2.5	PASS
	MCH	VL	TN	4.11	0.005809	± 2.5	PASS
		VN	TN	4.14	0.005852	± 2.5	PASS
		VH	TN	2.64	0.003731	± 2.5	PASS
	HCH	VL	TN	0.42	0.000591	± 2.5	PASS
		VN	TN	2.06	0.002897	± 2.5	PASS
		VH	TN	3.87	0.005443	± 2.5	PASS
16QAM	LCH	VL	TN	-1.99	-0.002827	± 2.5	PASS
		VN	TN	-1.56	-0.002216	± 2.5	PASS
		VH	TN	1.67	0.002372	± 2.5	PASS
	MCH	VL	TN	2.3	0.003251	± 2.5	PASS
		VN	TN	0.53	0.000749	± 2.5	PASS
		VH	TN	-1.29	-0.001823	± 2.5	PASS
	HCH	VL	TN	2.9	0.004079	± 2.5	PASS
		VN	TN	-0.27	-0.000380	± 2.5	PASS
		VH	TN	-1.39	-0.001955	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
16QAM	LCH	VN	-30	1.94	0.002756	± 2.5	PASS
		VN	-20	-1.56	-0.002216	± 2.5	PASS
		VN	-10	2.47	0.003509	± 2.5	PASS
		VN	0	1.63	0.002315	± 2.5	PASS
		VN	10	4.75	0.006747	± 2.5	PASS
		VN	20	0	0.000000	± 2.5	PASS
		VN	30	2.94	0.004176	± 2.5	PASS
		VN	40	-1.37	-0.001946	± 2.5	PASS
		VN	50	0.36	0.000511	± 2.5	PASS
	MCH	VN	-30	1.57	0.002219	± 2.5	PASS
		VN	-20	-0.06	-0.000085	± 2.5	PASS
		VN	-10	2.96	0.004184	± 2.5	PASS
		VN	0	1.09	0.001541	± 2.5	PASS
		VN	10	2.28	0.003223	± 2.5	PASS

		VN	20	1.3	0.001837	± 2.5	PASS
		VN	30	2.71	0.003830	± 2.5	PASS
		VN	40	-0.72	-0.001018	± 2.5	PASS
		VN	50	1.18	0.001668	± 2.5	PASS
	HCH	VN	-30	-0.09	-0.000127	± 2.5	PASS
		VN	-20	2.81	0.003952	± 2.5	PASS
		VN	-10	0.07	0.000098	± 2.5	PASS
		VN	0	-1.95	-0.002743	± 2.5	PASS
		VN	10	0.58	0.000816	± 2.5	PASS
		VN	20	-1.78	-0.002504	± 2.5	PASS
		VN	30	4.71	0.006624	± 2.5	PASS
		VN	40	3.39	0.004768	± 2.5	PASS
		VN	50	2.91	0.004093	± 2.5	PASS
		VN	-30	5	0.007102	± 2.5	PASS
		VN	-20	-1.45	-0.002060	± 2.5	PASS
		VN	-10	4.77	0.006776	± 2.5	PASS
		VN	0	3.11	0.004418	± 2.5	PASS
QPSK	LCH	VN	10	4.13	0.005866	± 2.5	PASS
		VN	20	2.07	0.002940	± 2.5	PASS
		VN	30	3.38	0.004801	± 2.5	PASS
		VN	40	0.15	0.000213	± 2.5	PASS
		VN	50	2.23	0.003168	± 2.5	PASS
	MCH	VN	-30	3.9	0.005512	± 2.5	PASS
		VN	-20	0.73	0.001032	± 2.5	PASS
		VN	-10	1.17	0.001654	± 2.5	PASS
		VN	0	-1.98	-0.002799	± 2.5	PASS
		VN	10	4.82	0.006813	± 2.5	PASS
		VN	20	-1.25	-0.001767	± 2.5	PASS
		VN	30	1.18	0.001668	± 2.5	PASS
		VN	40	3.59	0.005074	± 2.5	PASS
		VN	50	-0.4	-0.000565	± 2.5	PASS
	HCH	VN	-30	2.55	0.003586	± 2.5	PASS
		VN	-20	-1.07	-0.001505	± 2.5	PASS
		VN	-10	2.44	0.003432	± 2.5	PASS
		VN	0	2.45	0.003446	± 2.5	PASS
		VN	10	3.88	0.005457	± 2.5	PASS
		VN	20	-0.05	-0.000070	± 2.5	PASS
		VN	30	0.03	0.000042	± 2.5	PASS
		VN	40	4.23	0.005949	± 2.5	PASS
		VN	50	-1.62	-0.002278	± 2.5	PASS