

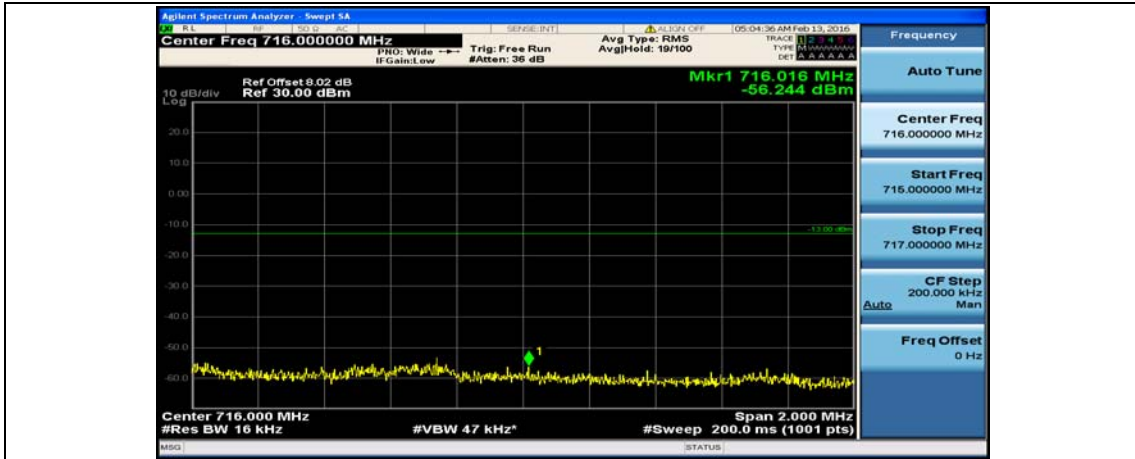
Channel Bandwidth: 10 MHz\_LCH\_QPSK\_50RB#0



Channel Bandwidth: 10 MHz\_HCH\_QPSK\_1RB#0



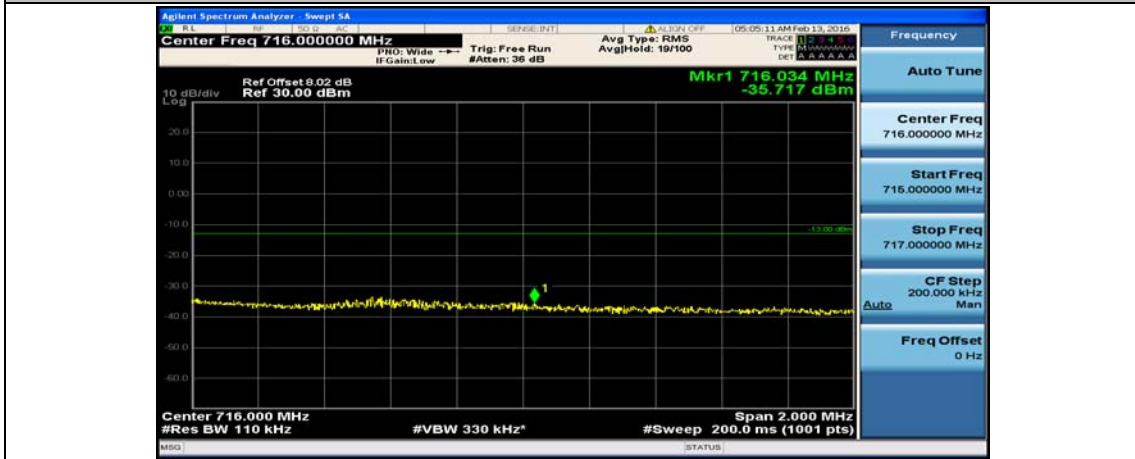
Channel Bandwidth: 10 MHz\_HCH\_QPSK\_1RB#24



Channel Bandwidth: 10 MHz\_HCH\_QPSK\_1RB#49



Channel Bandwidth: 10 MHz\_HCH\_QPSK\_25RB#0

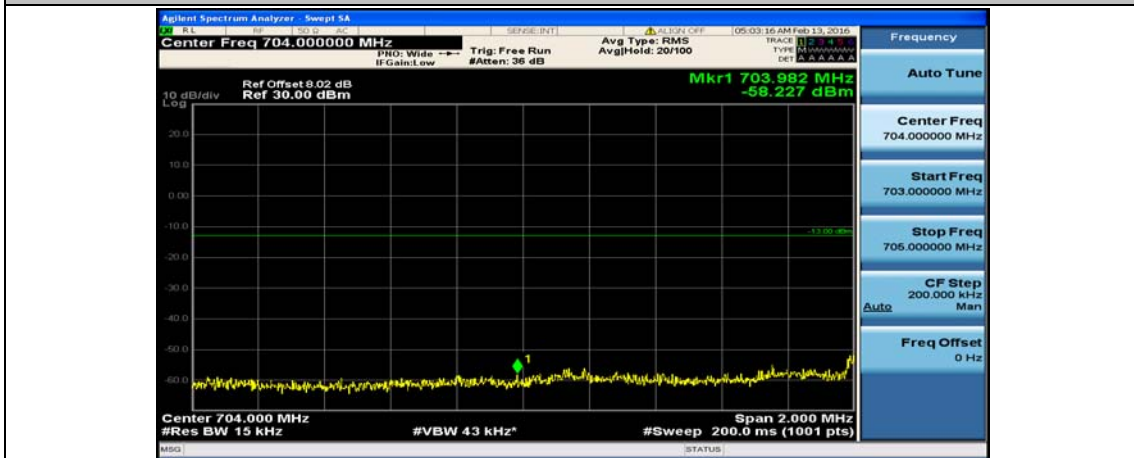


Channel Bandwidth: 10 MHz\_HCH\_QPSK\_25RB#12





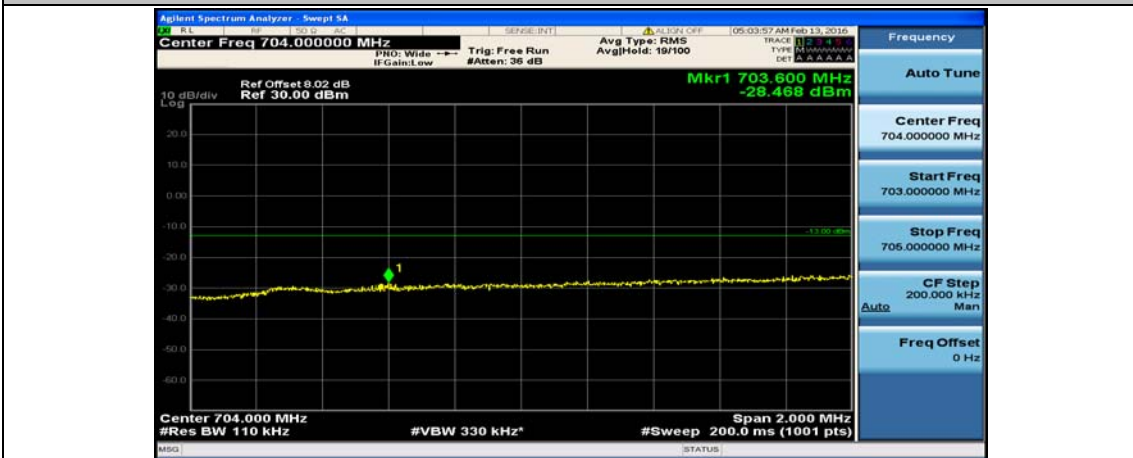
Channel Bandwidth: 10 MHz\_LCH\_16QAM\_1RB#24



Channel Bandwidth: 10 MHz\_LCH\_16QAM\_1RB#49

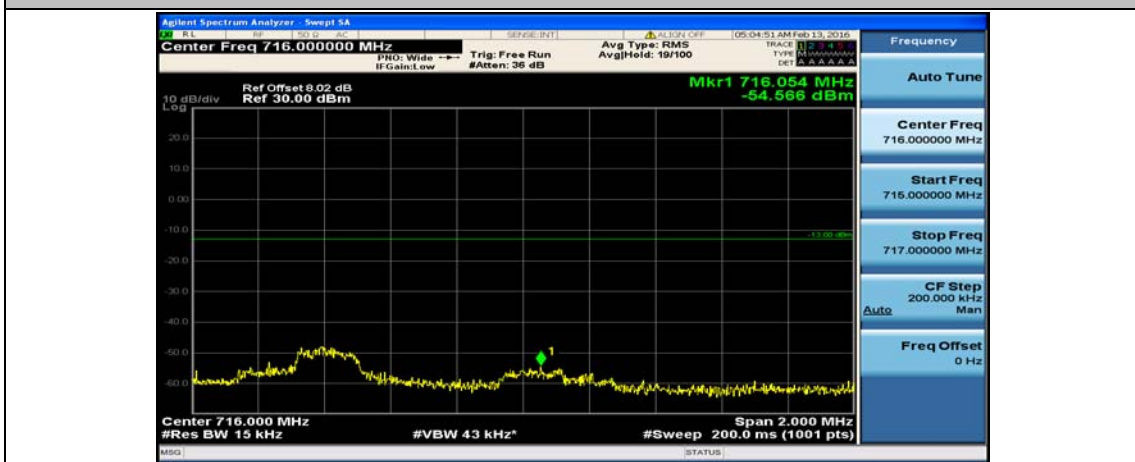


Channel Bandwidth: 10 MHz\_LCH\_16QAM\_25RB#0

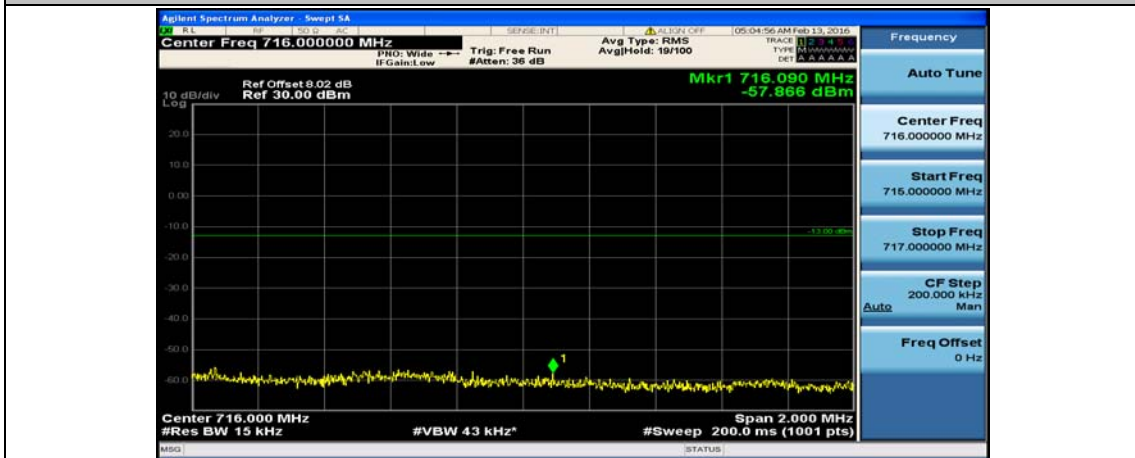




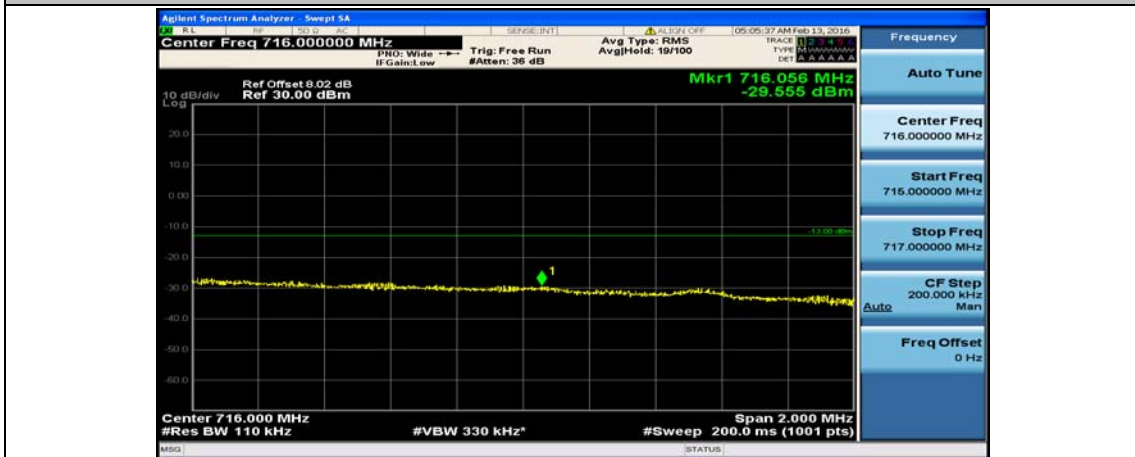
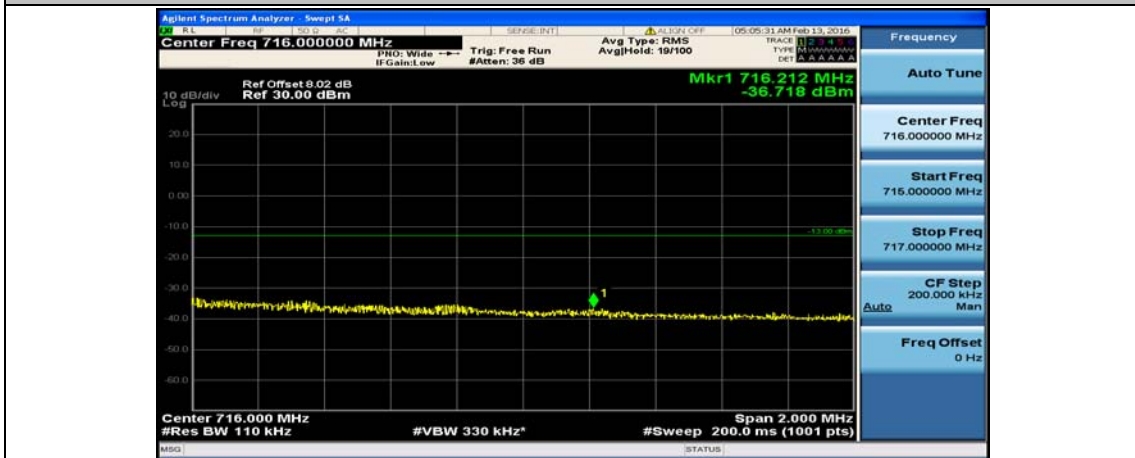
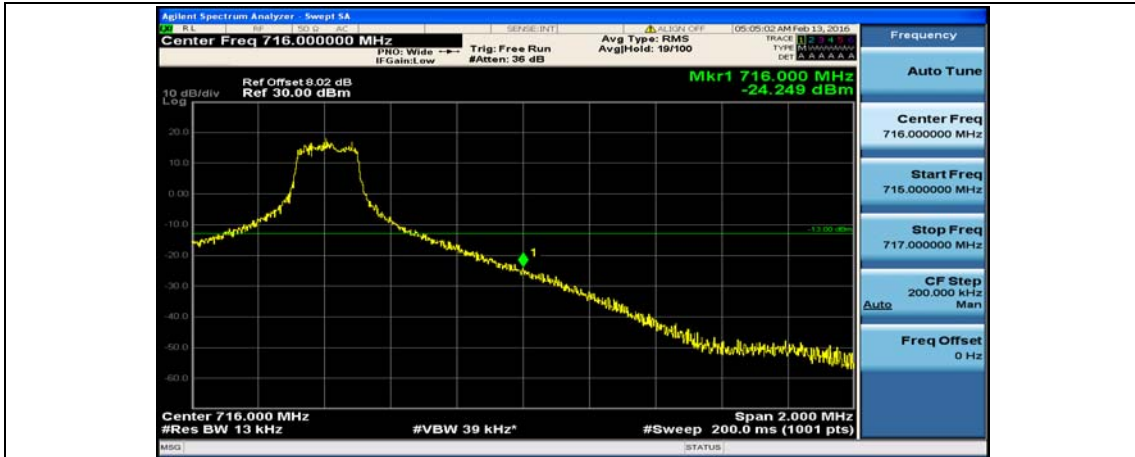
Channel Bandwidth: 10 MHz\_HCH\_16QAM\_1RB#0



Channel Bandwidth: 10 MHz\_HCH\_16QAM\_1RB#24



Channel Bandwidth: 10 MHz\_HCH\_16QAM\_1RB#49





Channel Bandwidth: 10 MHz\_HCH\_16QAM\_50RB#0

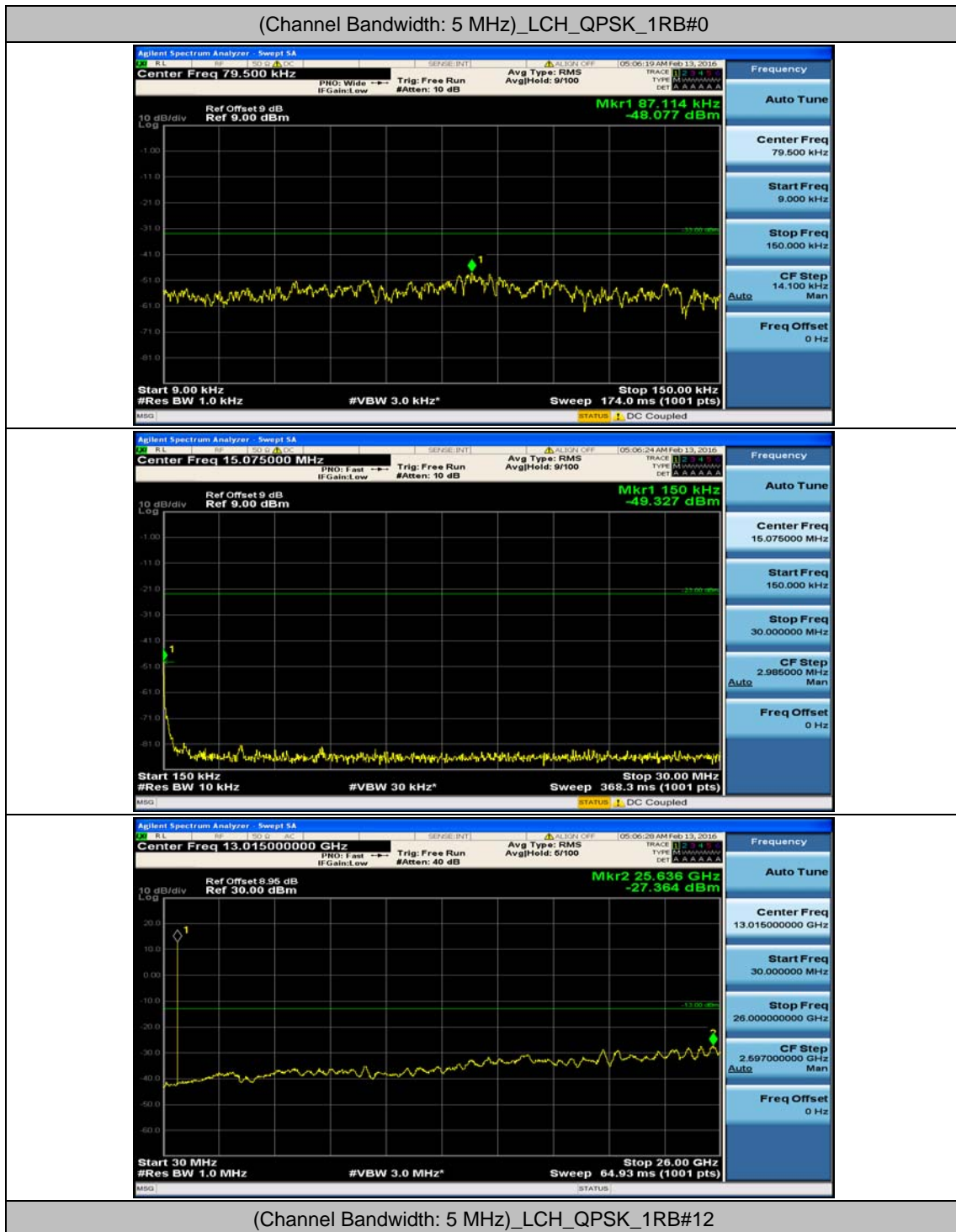


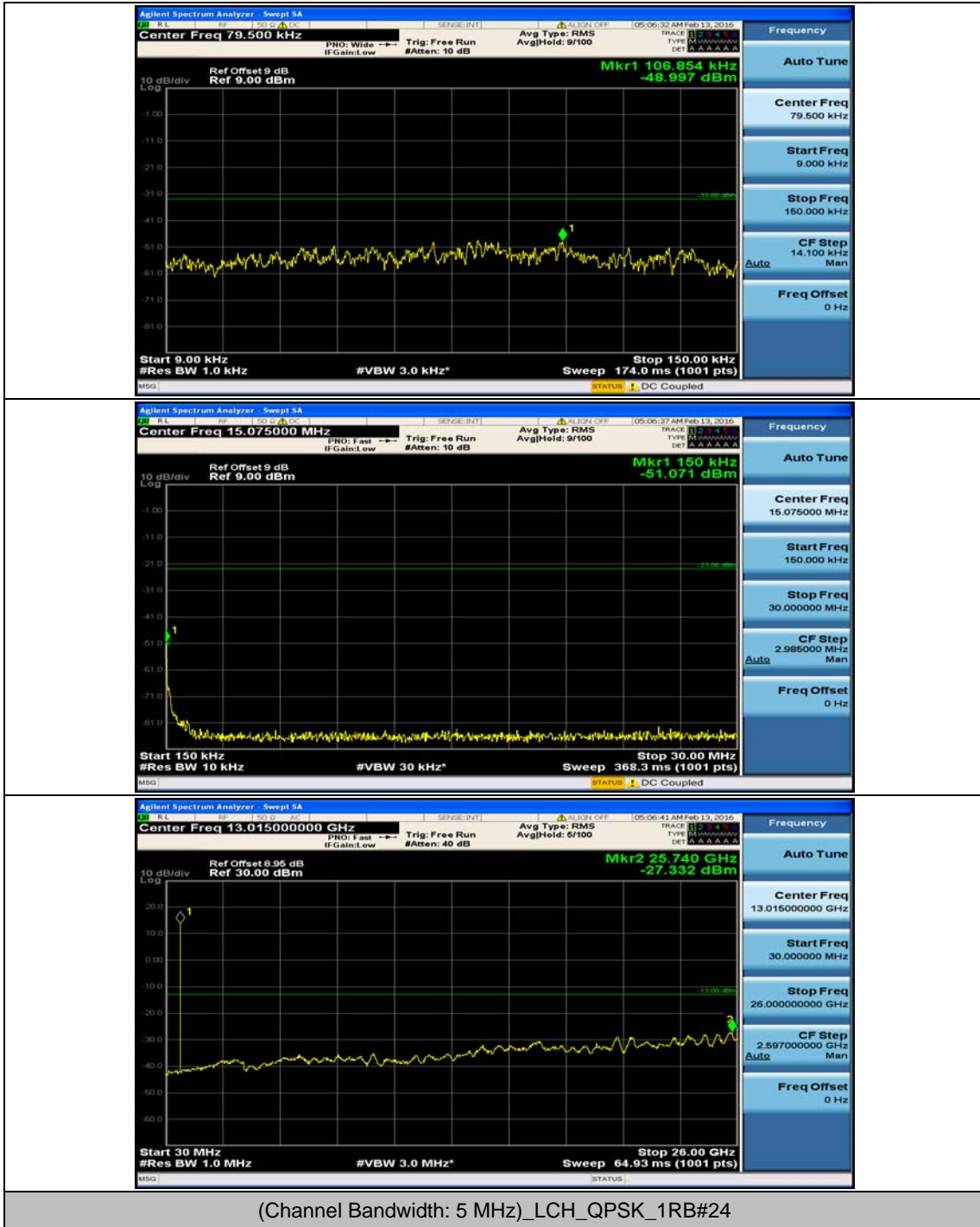


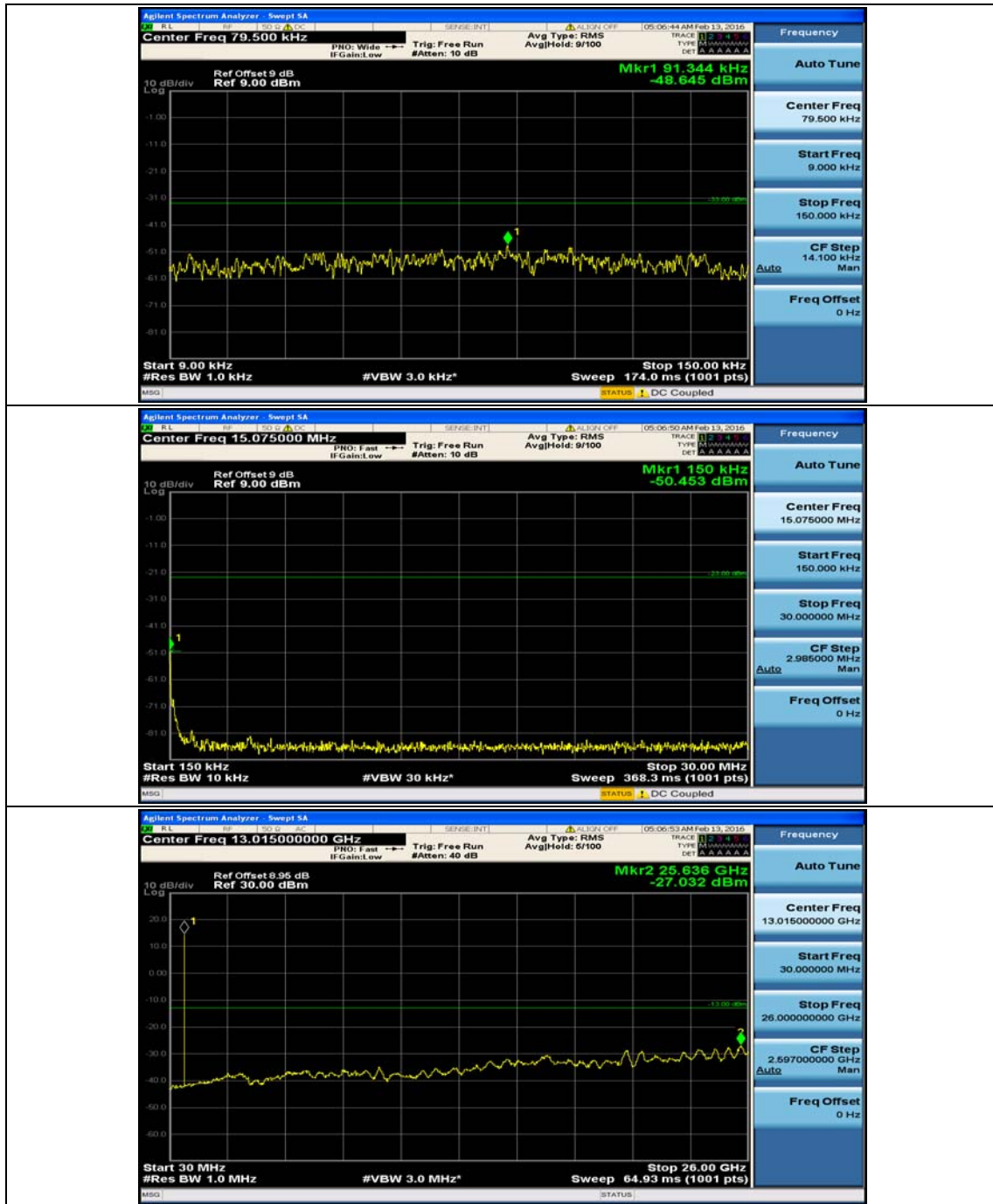
## Appendix E: Conducted Spurious Emission

### Test Graphs

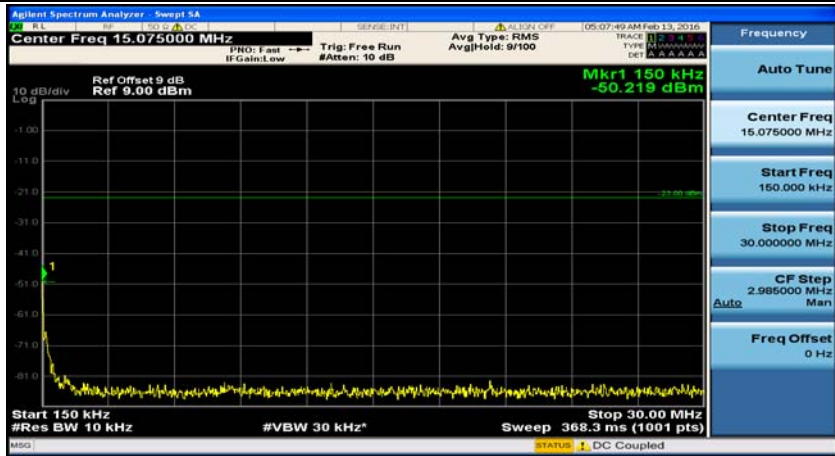
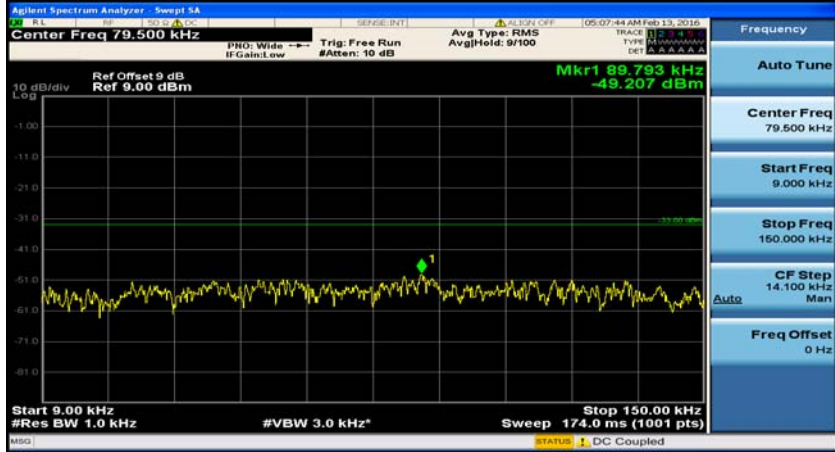
#### Channel Bandwidth: 5 MHz



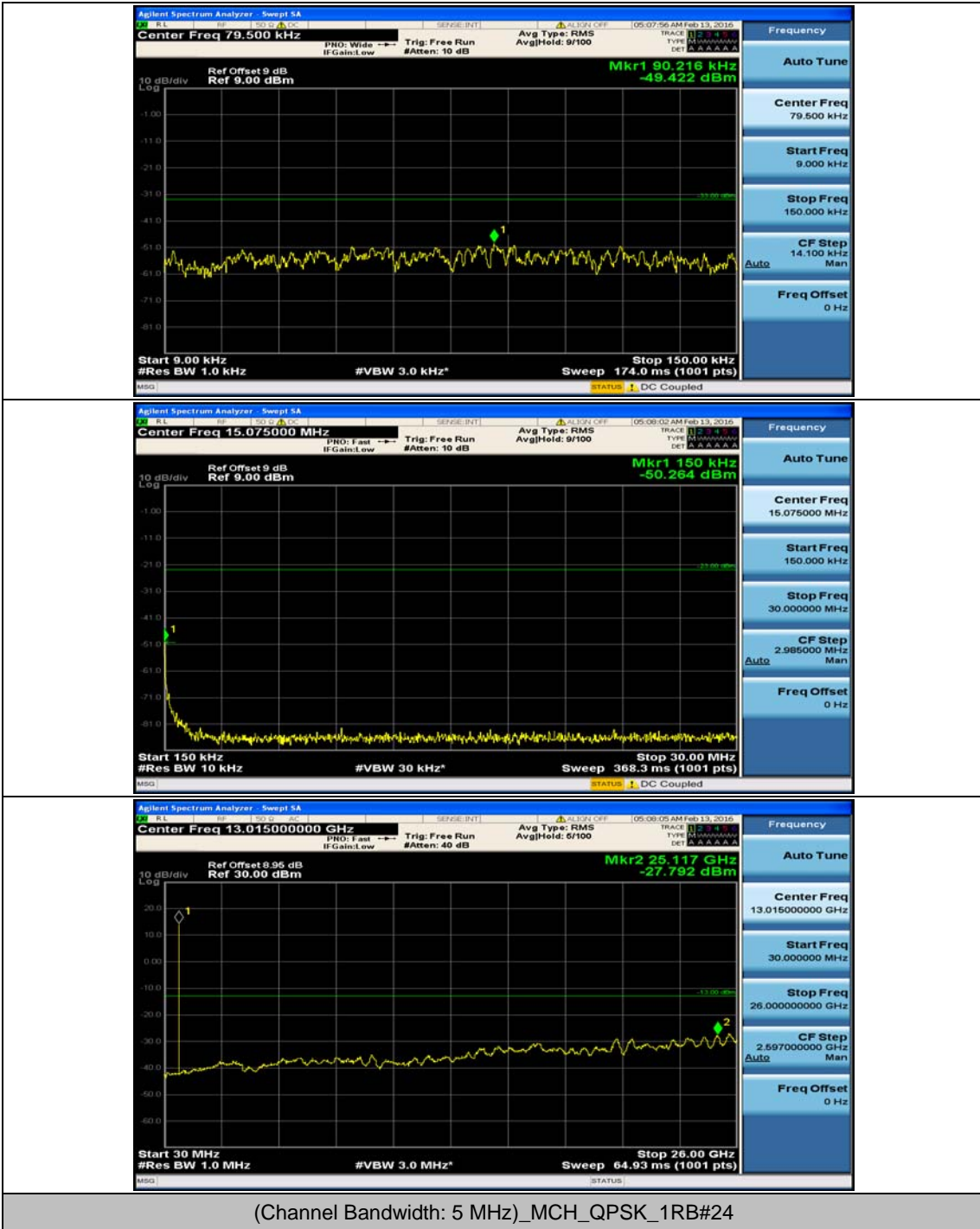


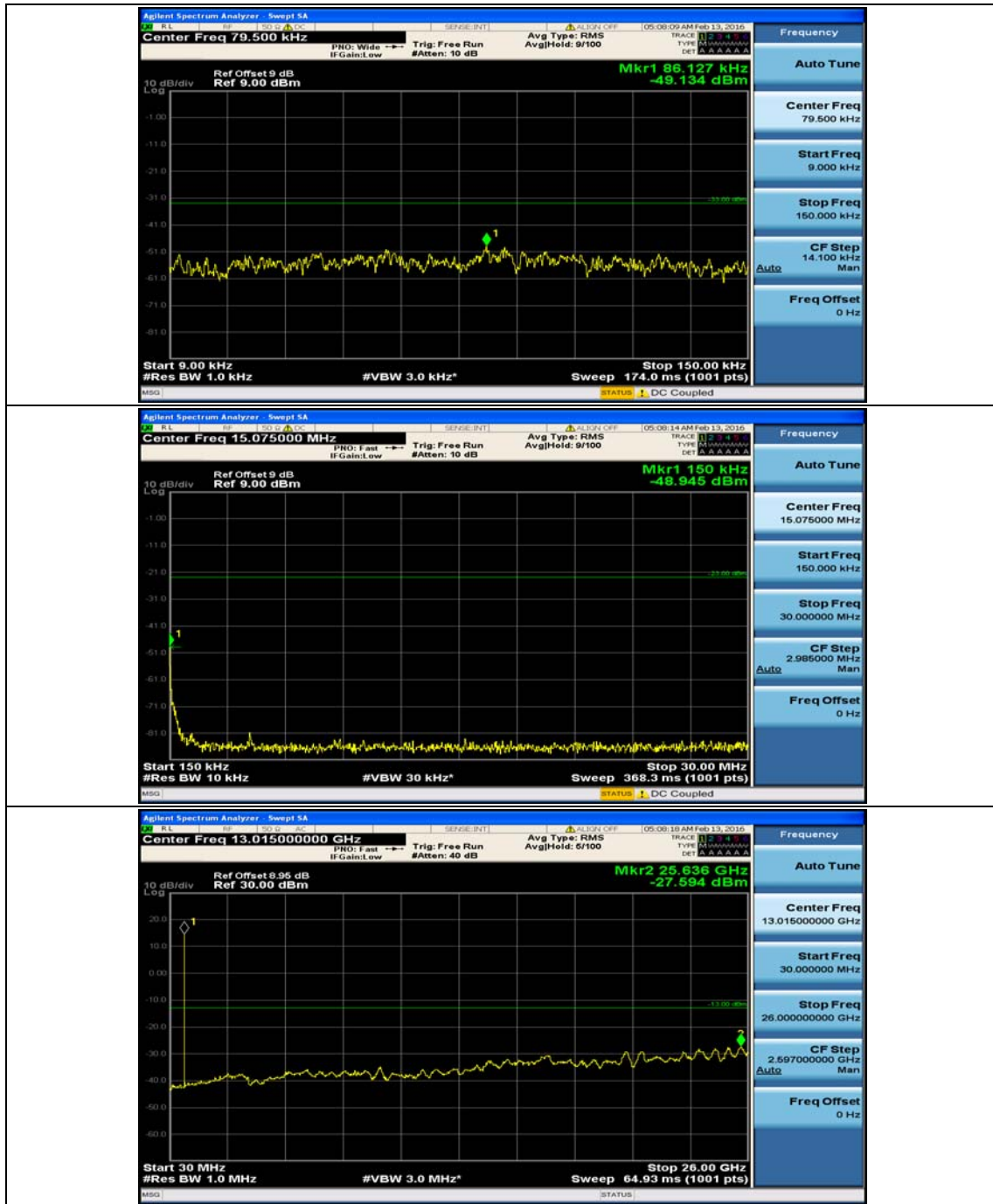


(Channel Bandwidth: 5 MHz)\_MCH\_QPSK\_1RB#0



(Channel Bandwidth: 5 MHz)\_MCH\_QPSK\_1RB#12

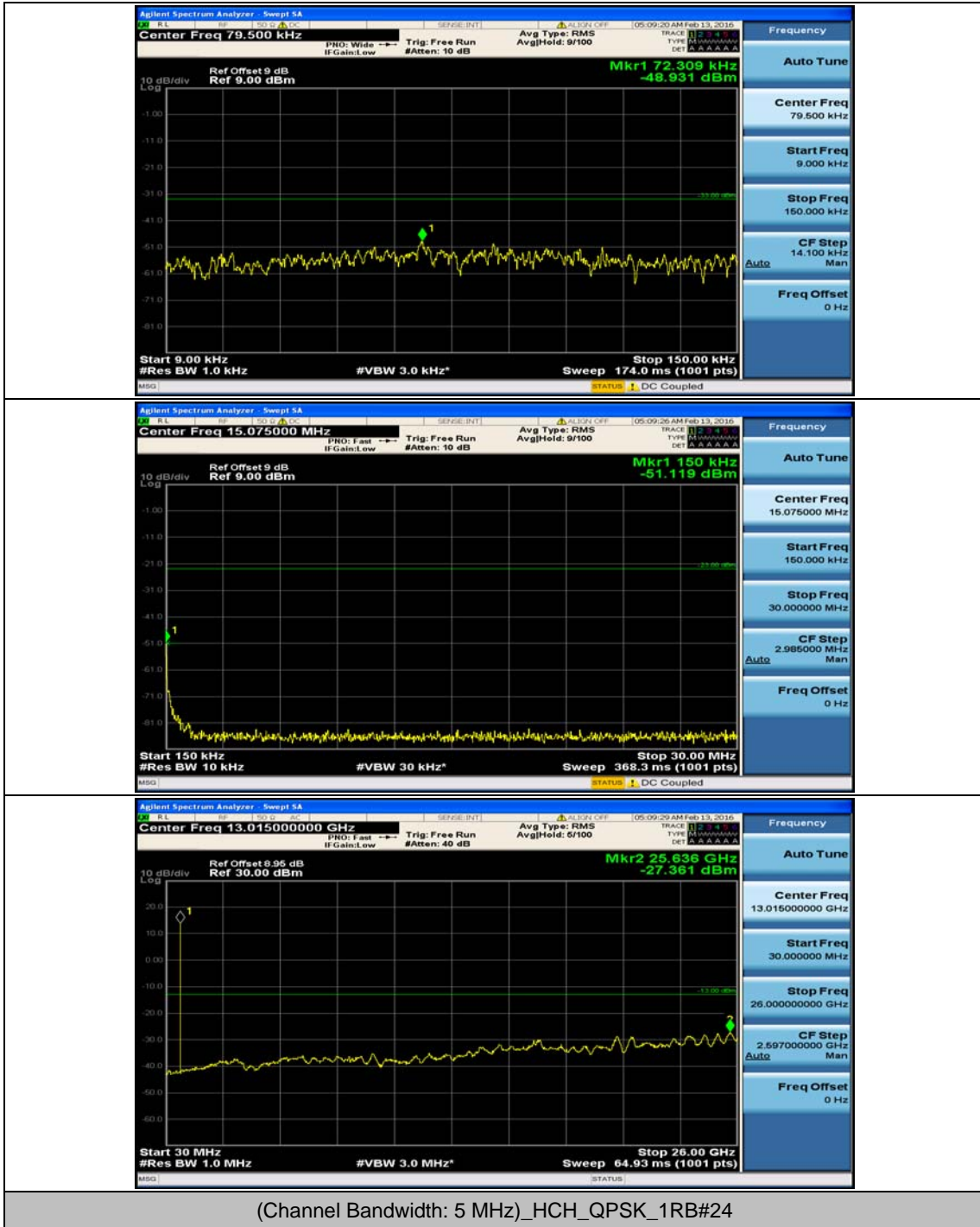




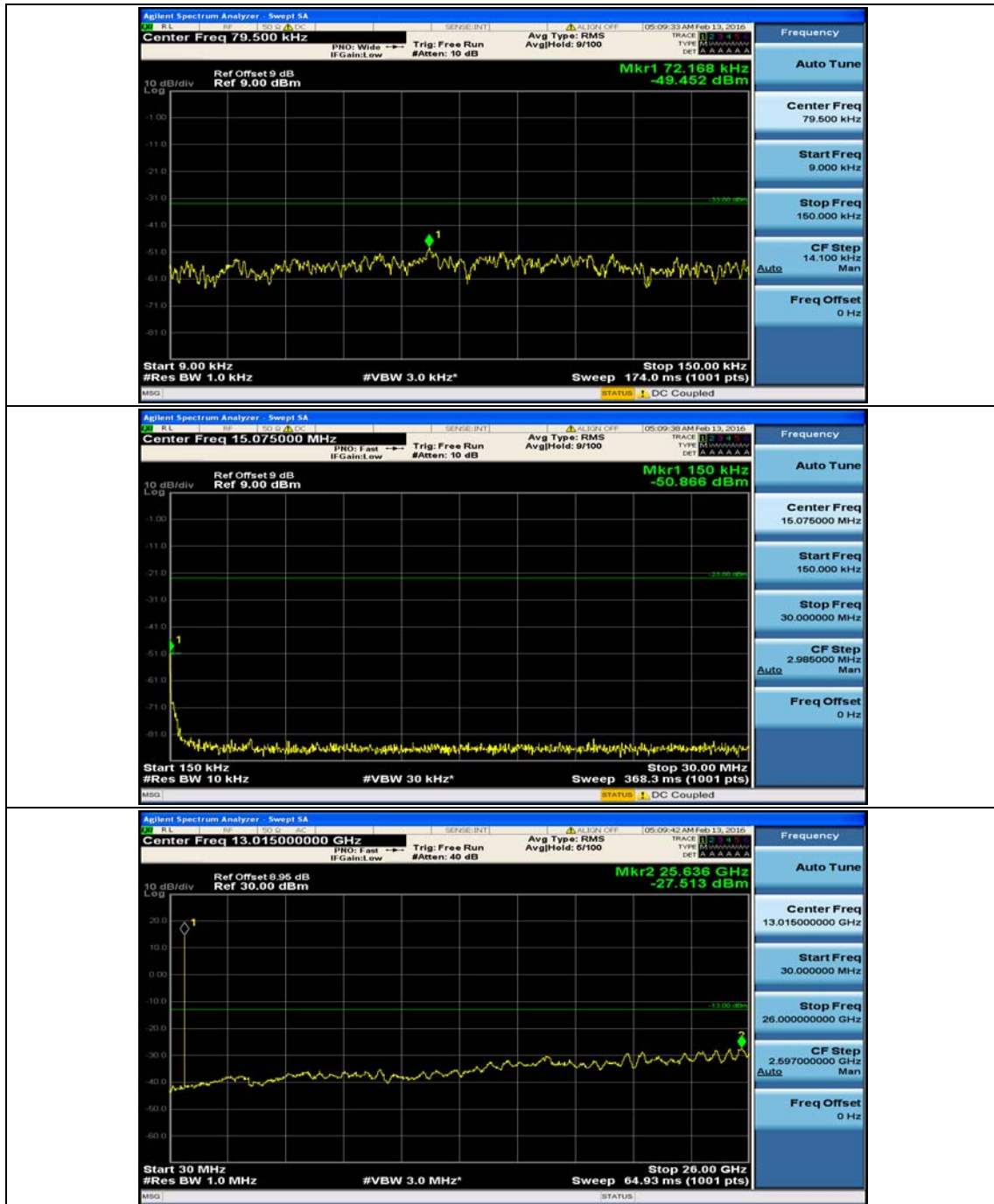
(Channel Bandwidth: 5 MHz)\_HCH\_QPSK\_1RB#0



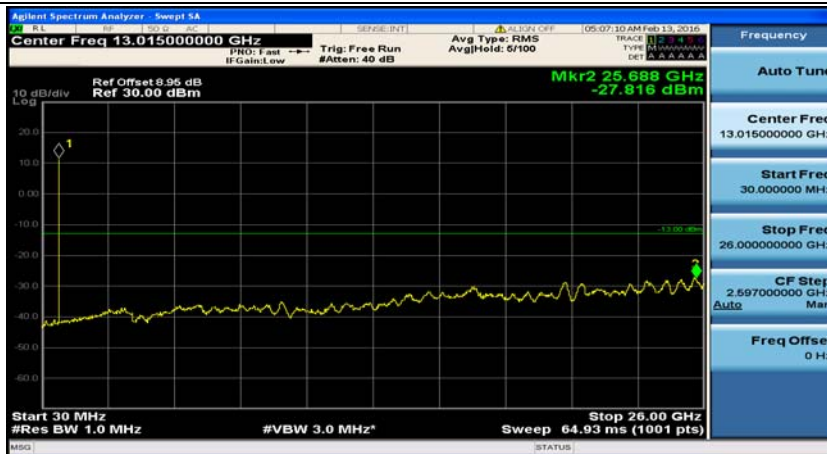
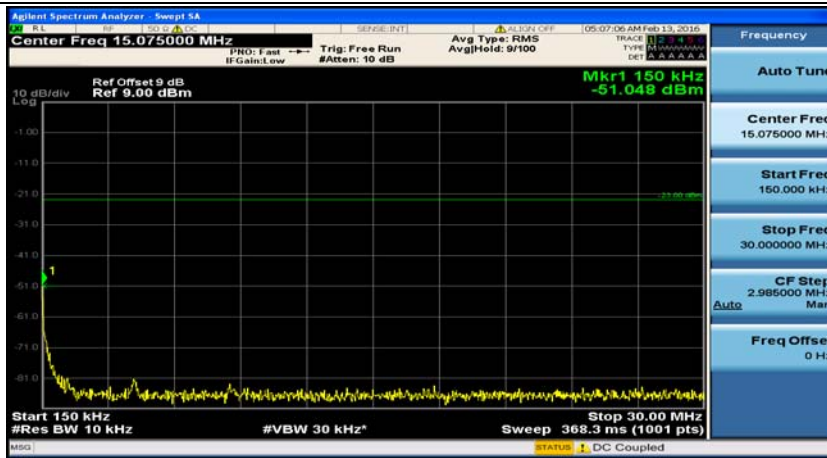
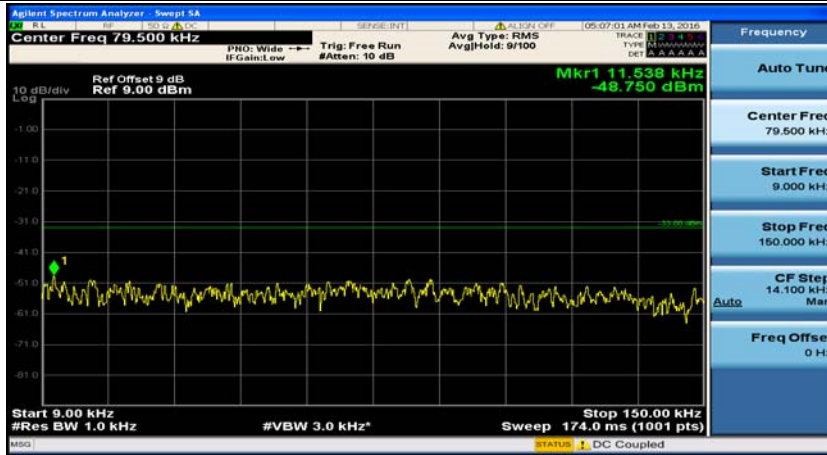
(Channel Bandwidth: 5 MHz)\_HCH\_QPSK\_1RB#12



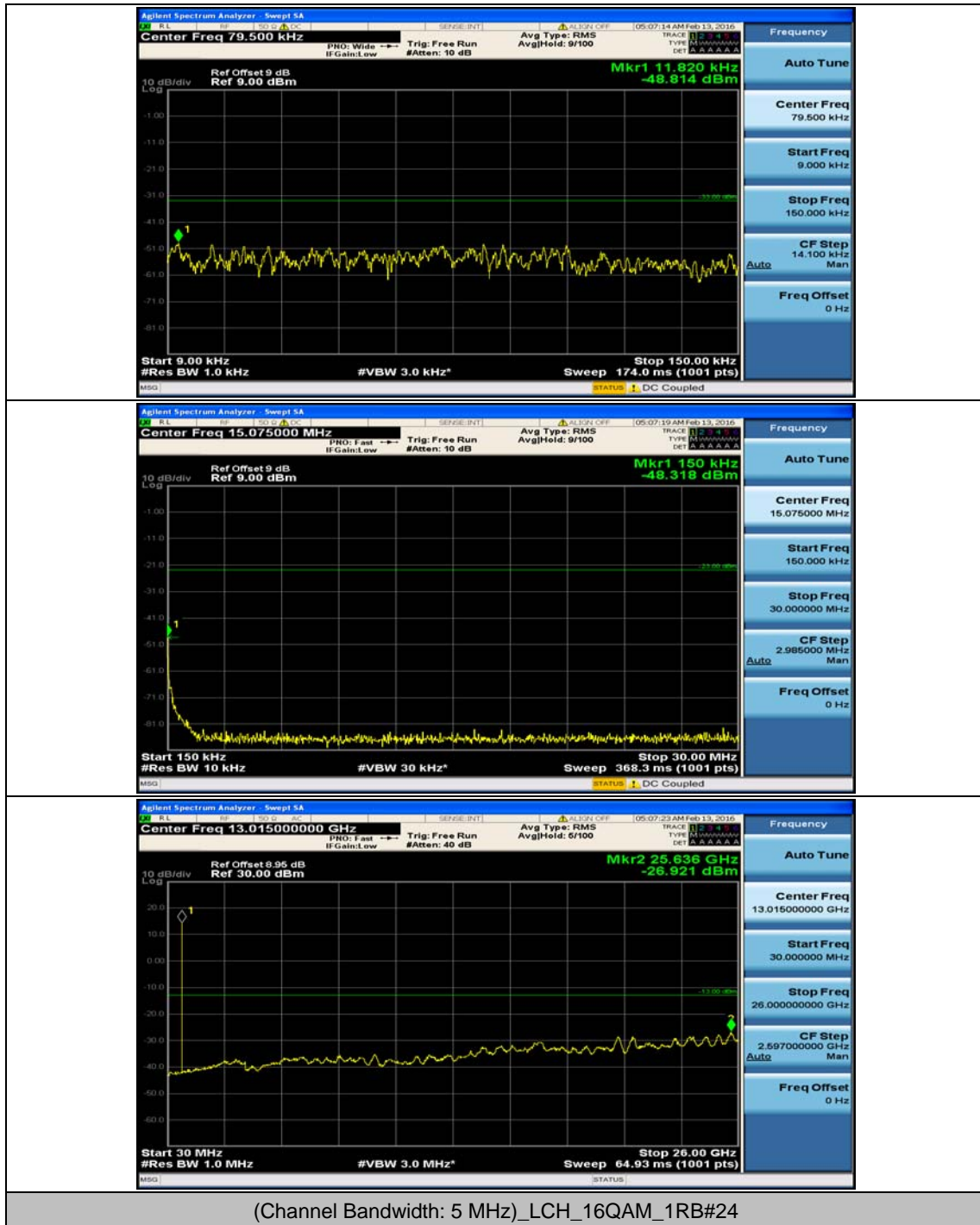


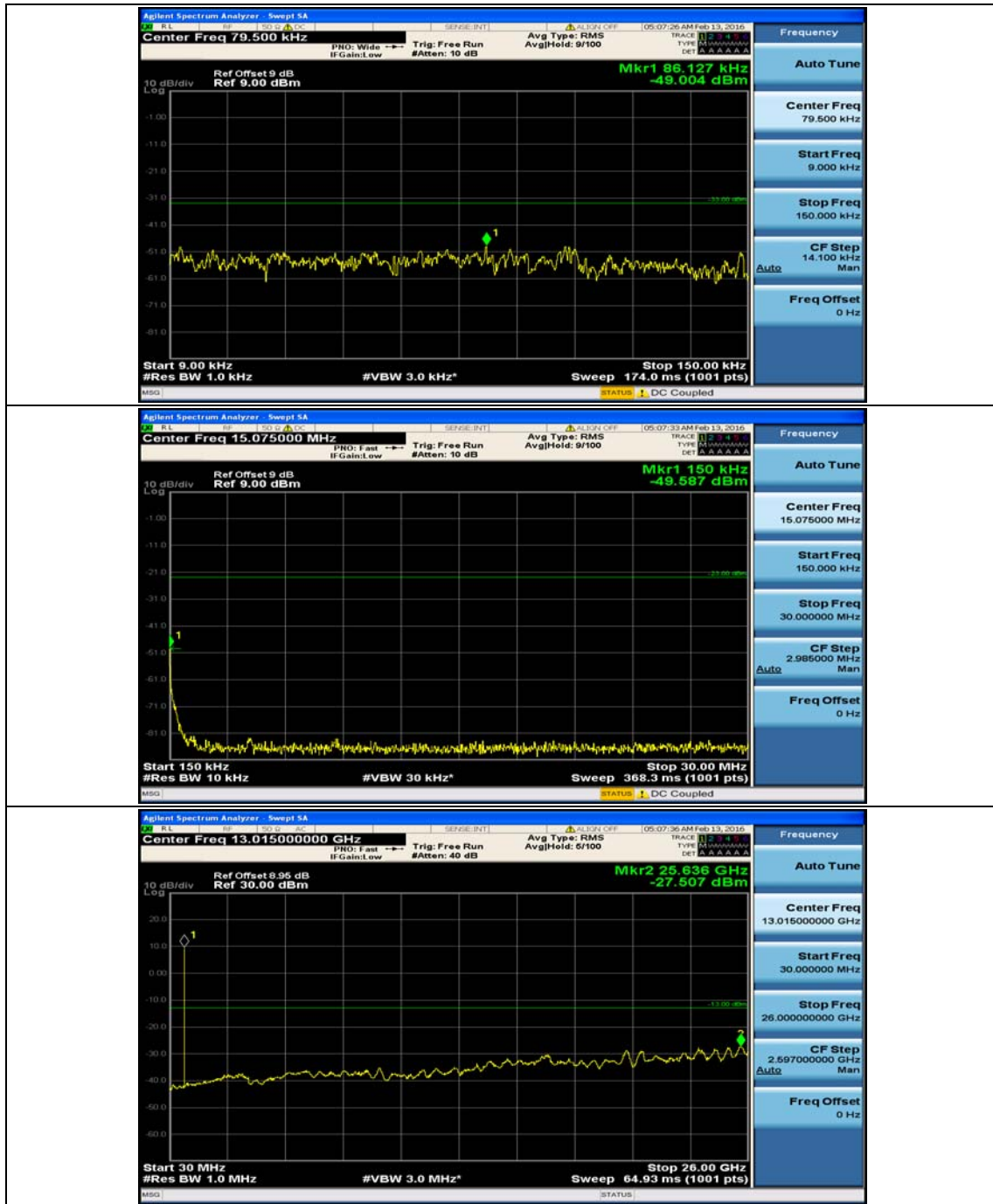


(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_1RB#0

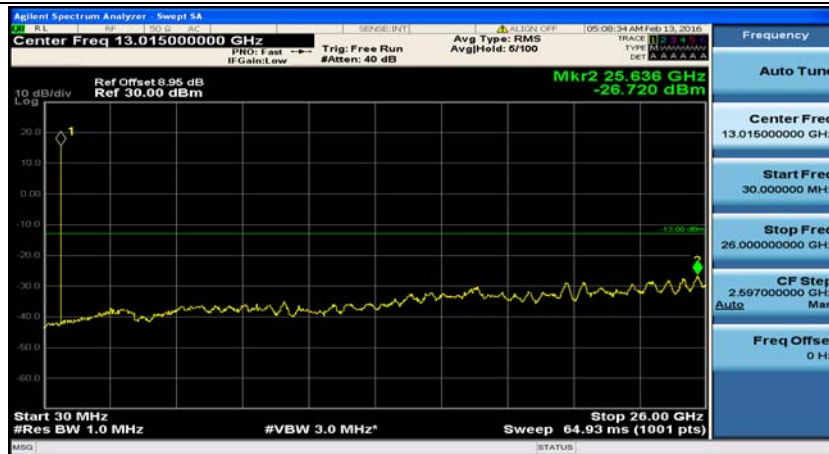
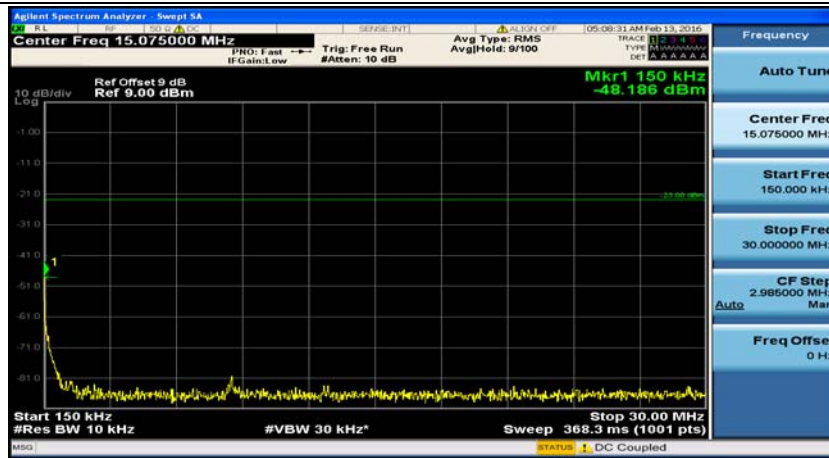


(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_1RB#12

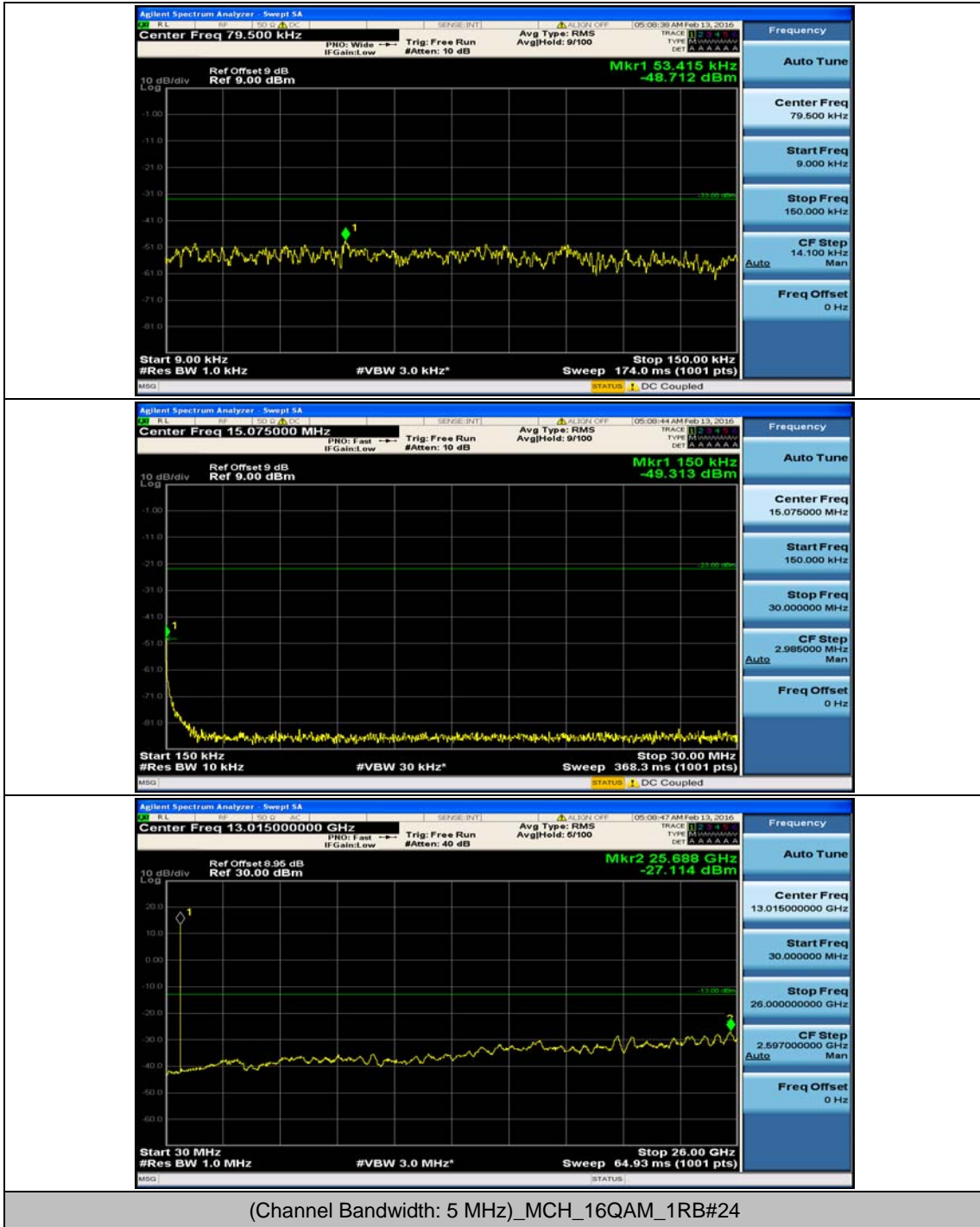


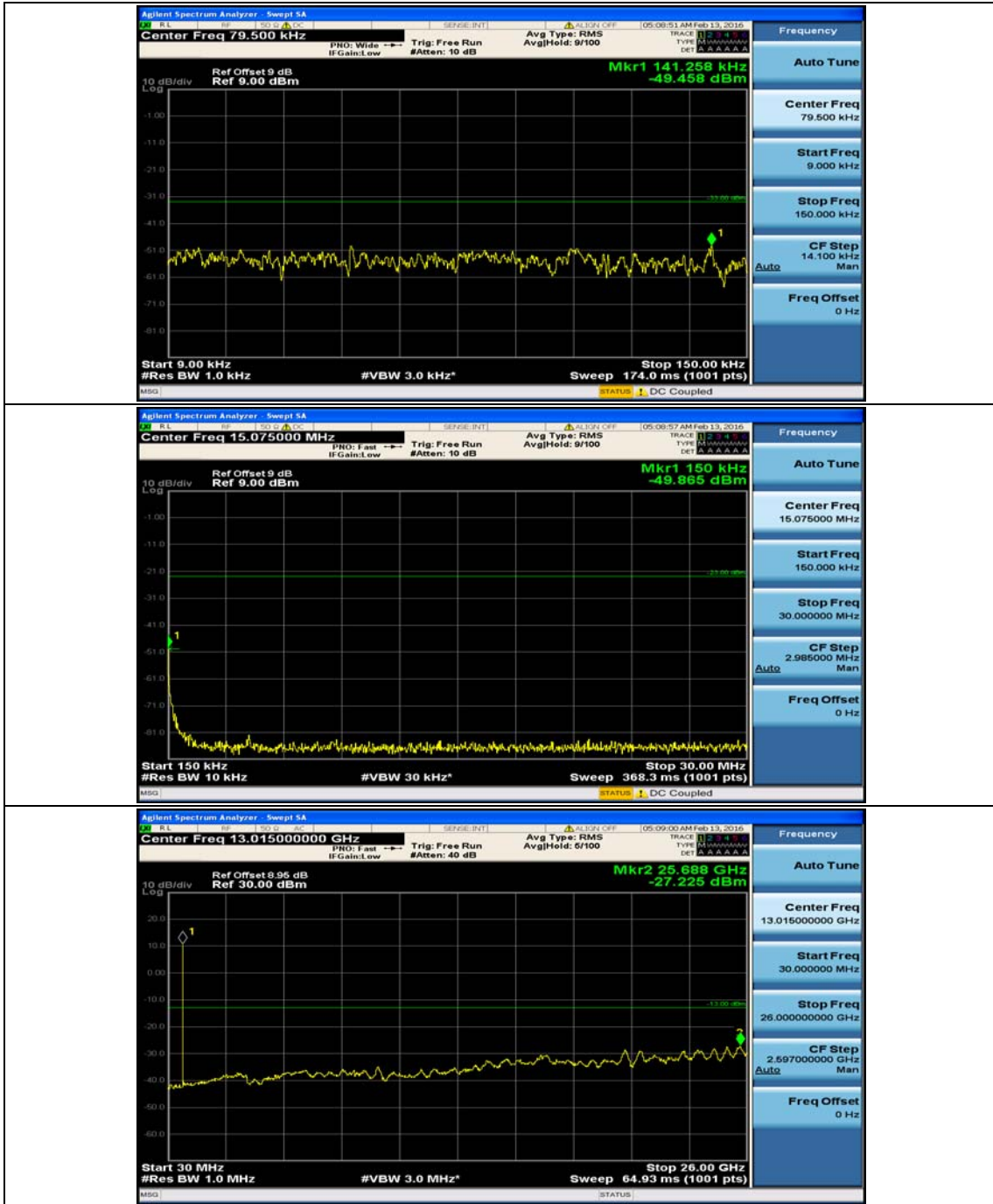


(Channel Bandwidth: 5 MHz)\_MCH\_16QAM\_1RB#0

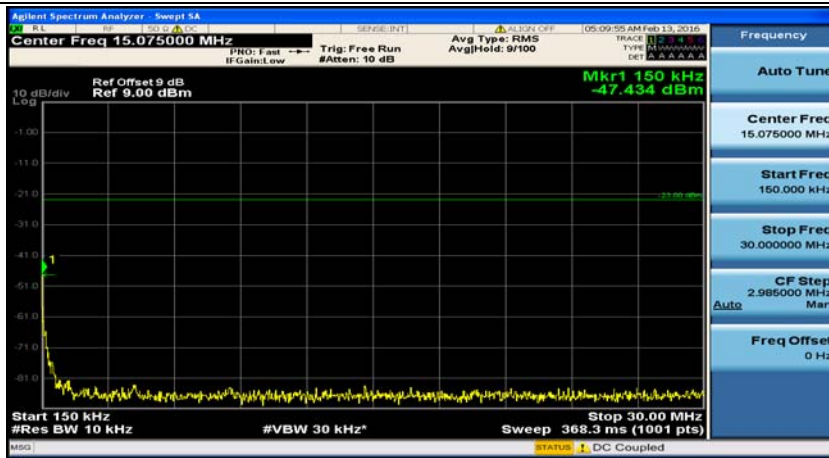


(Channel Bandwidth: 5 MHz)\_MCH\_16QAM\_1RB#12



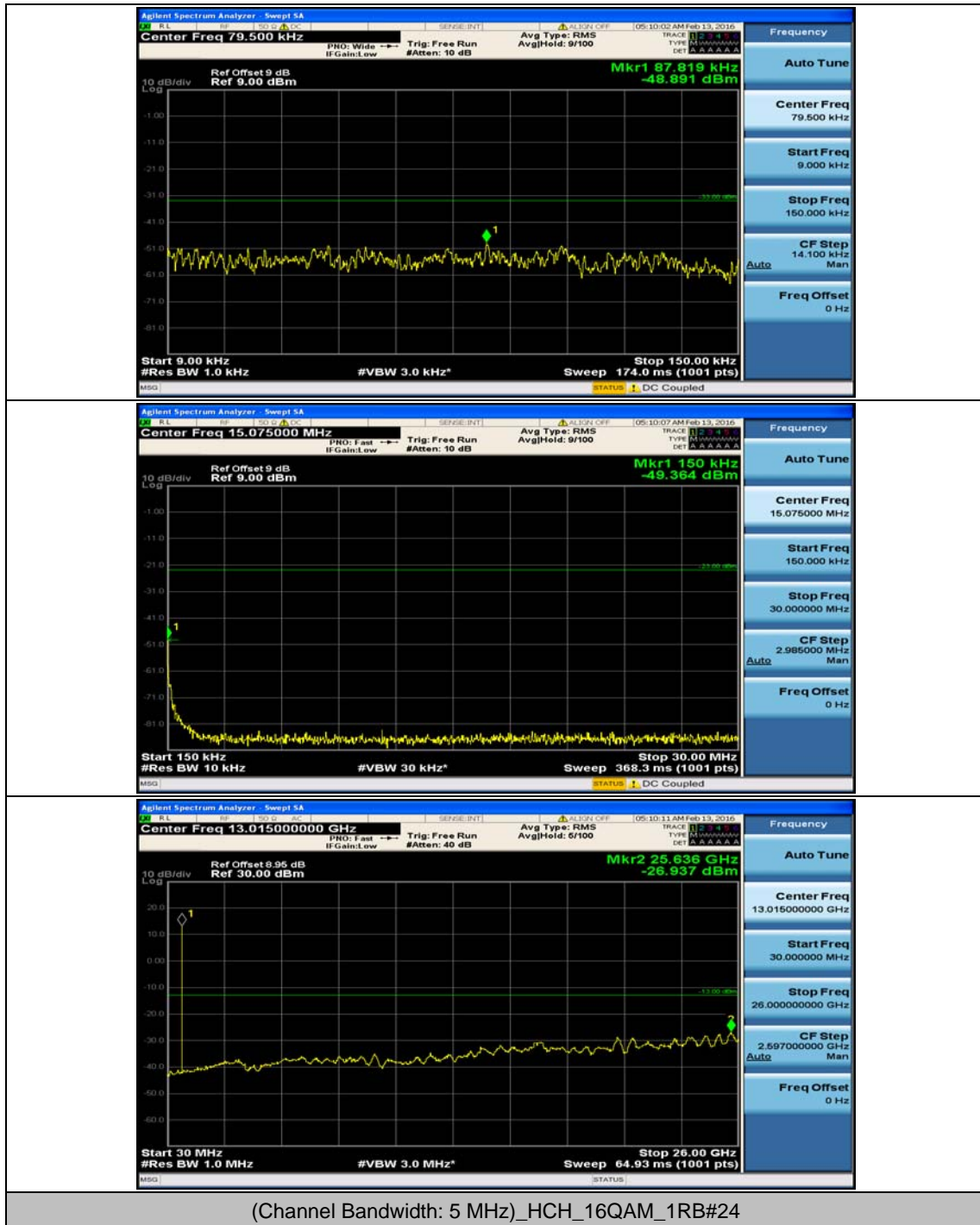


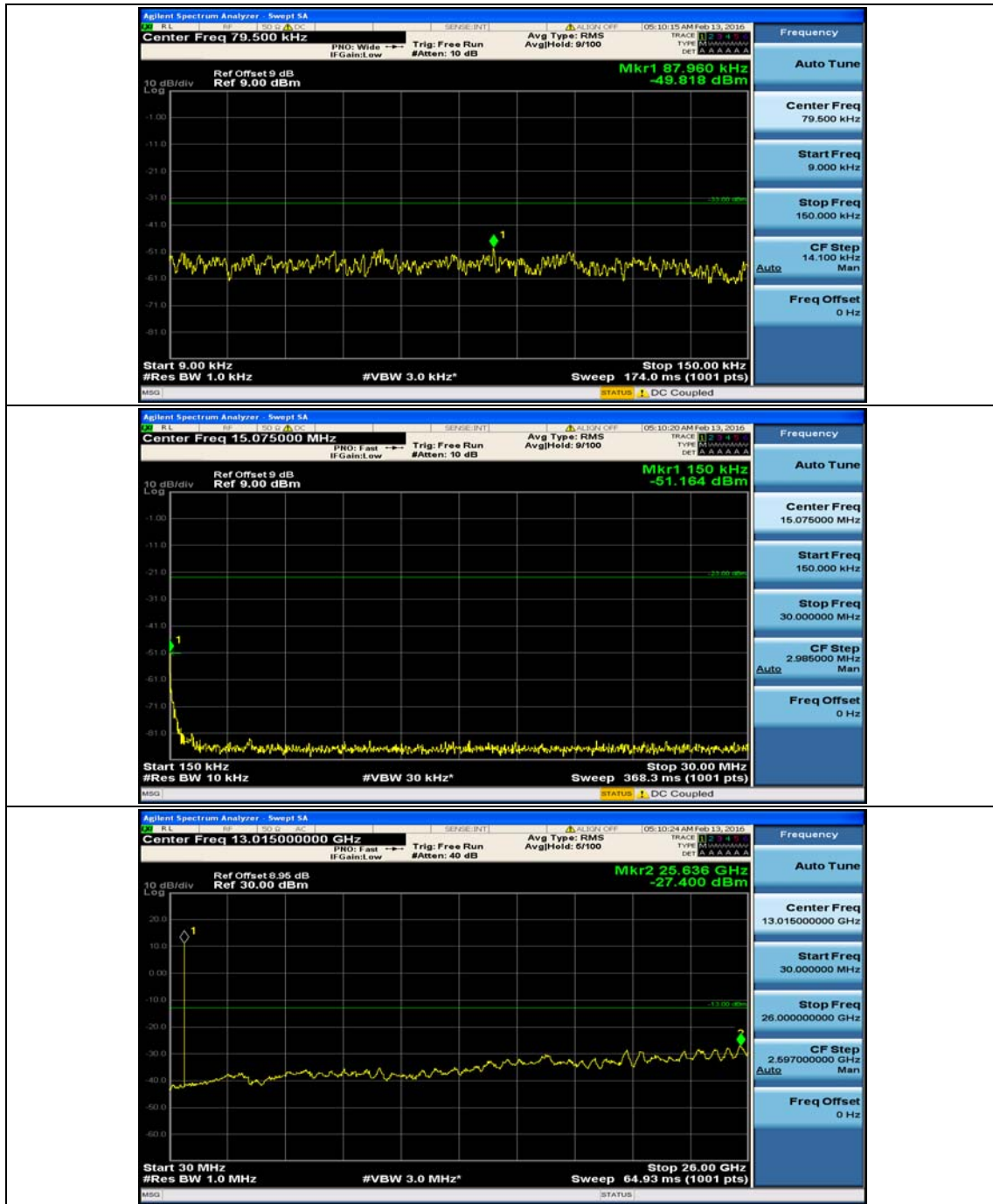
(Channel Bandwidth: 5 MHz)\_HCH\_16QAM\_1RB#0



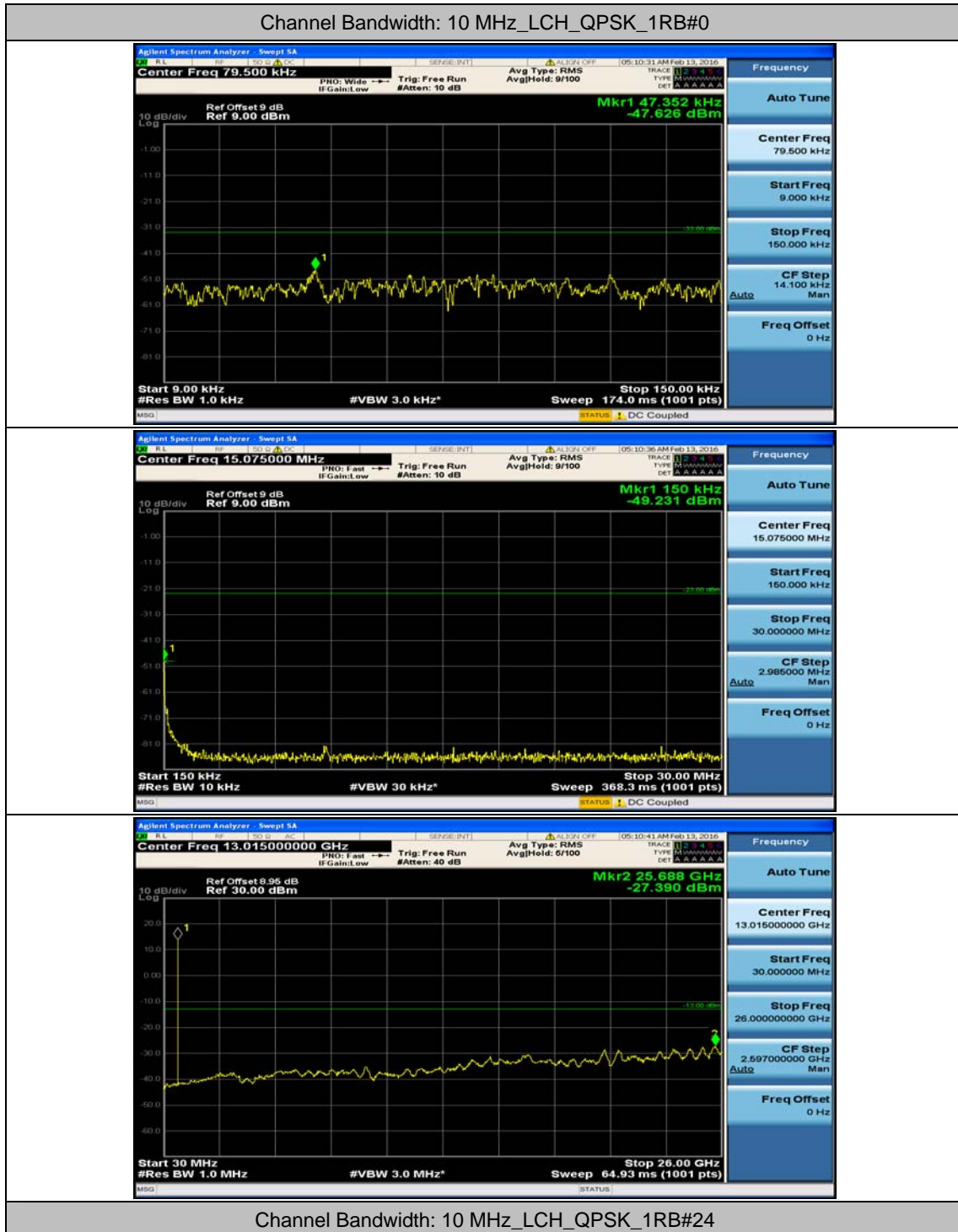
(Channel Bandwidth: 5 MHz)\_HCH\_16QAM\_1RB#12

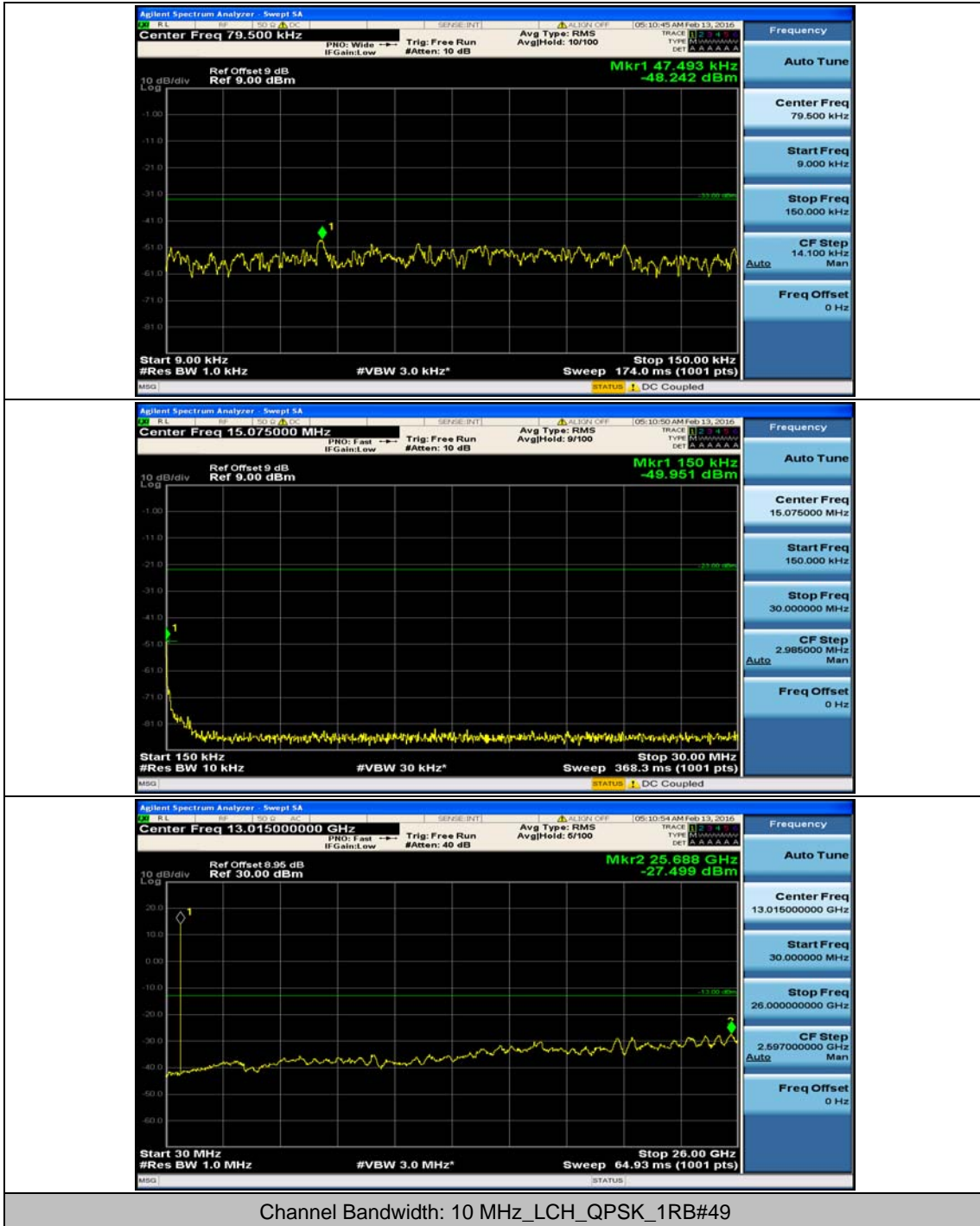


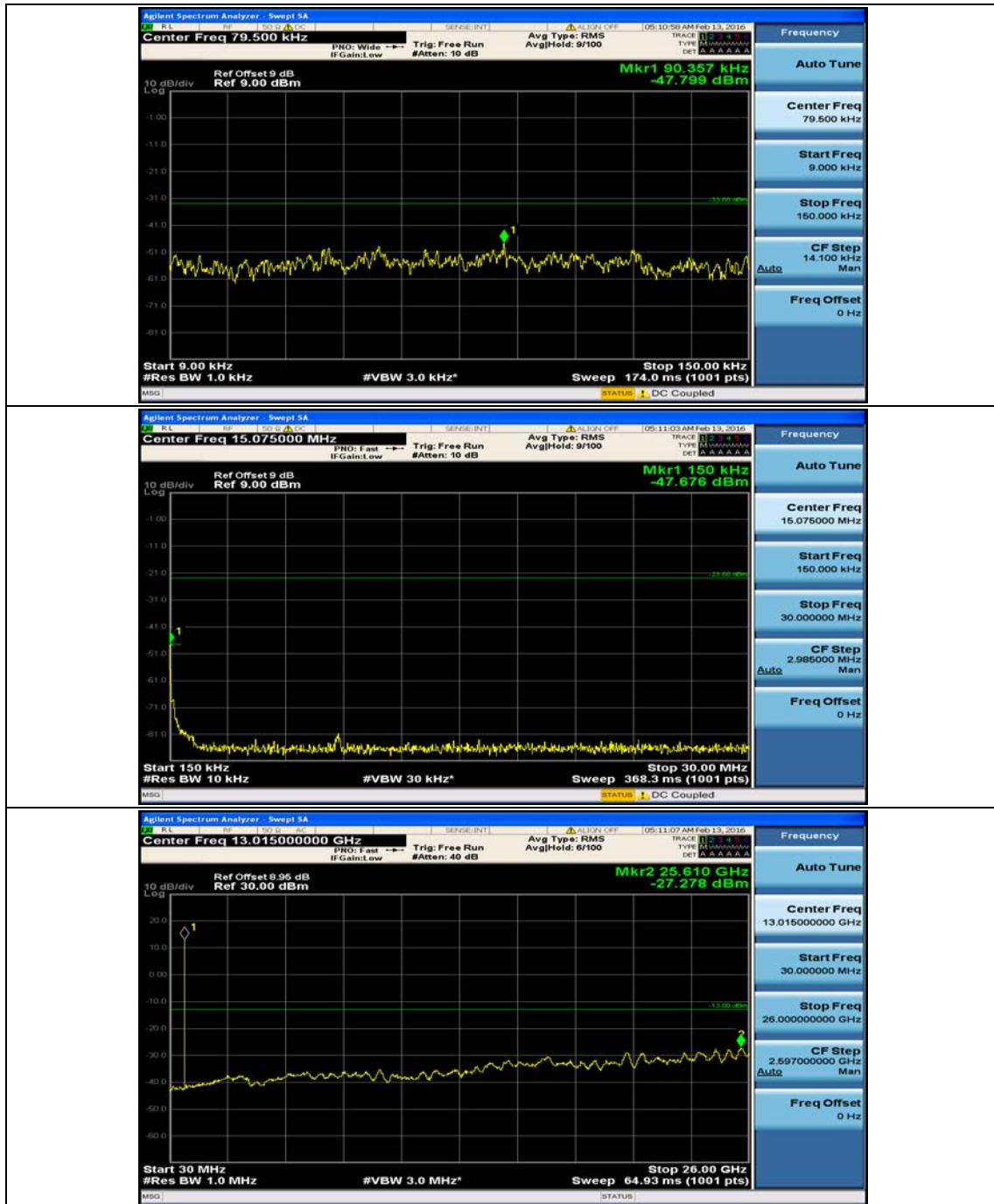


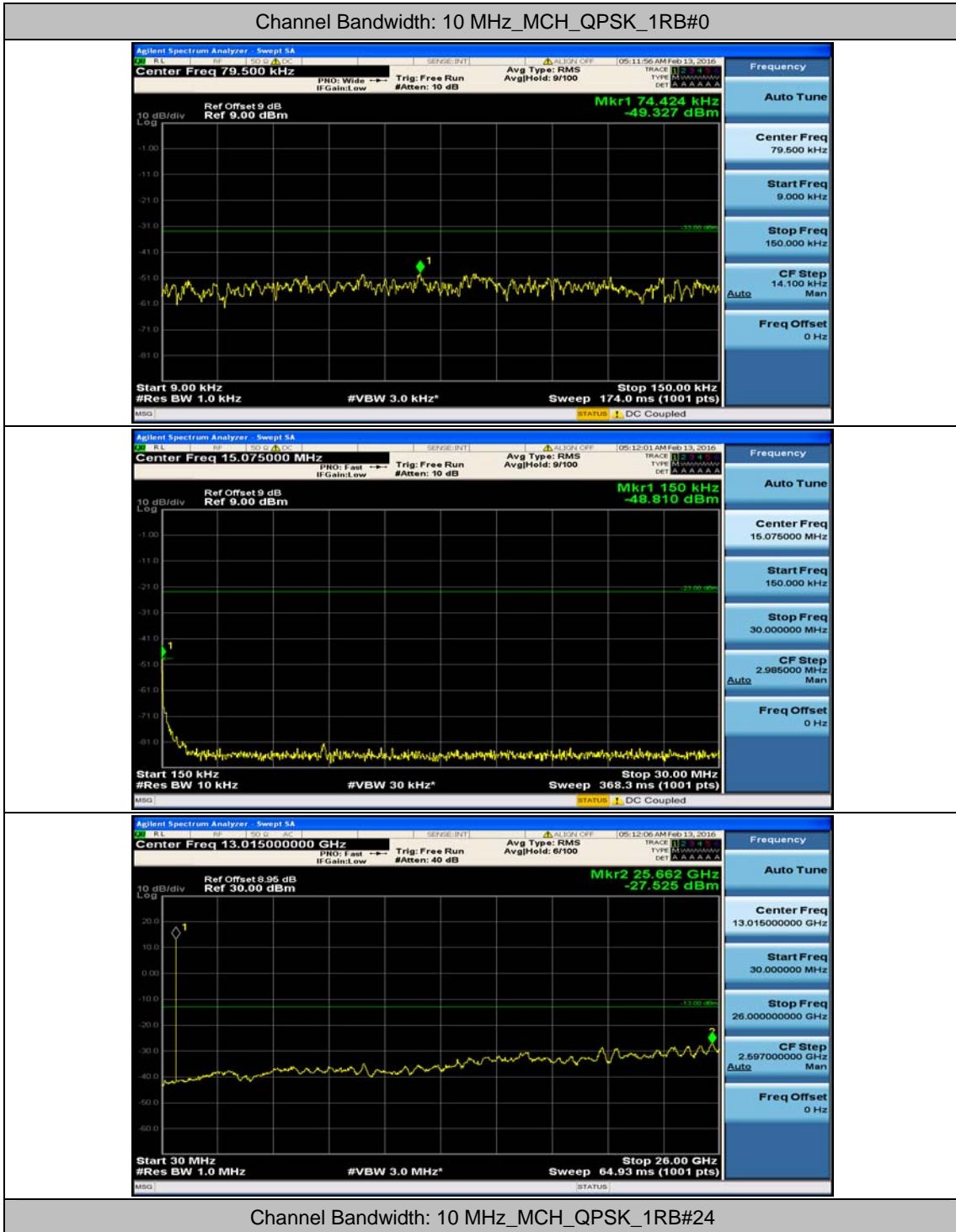


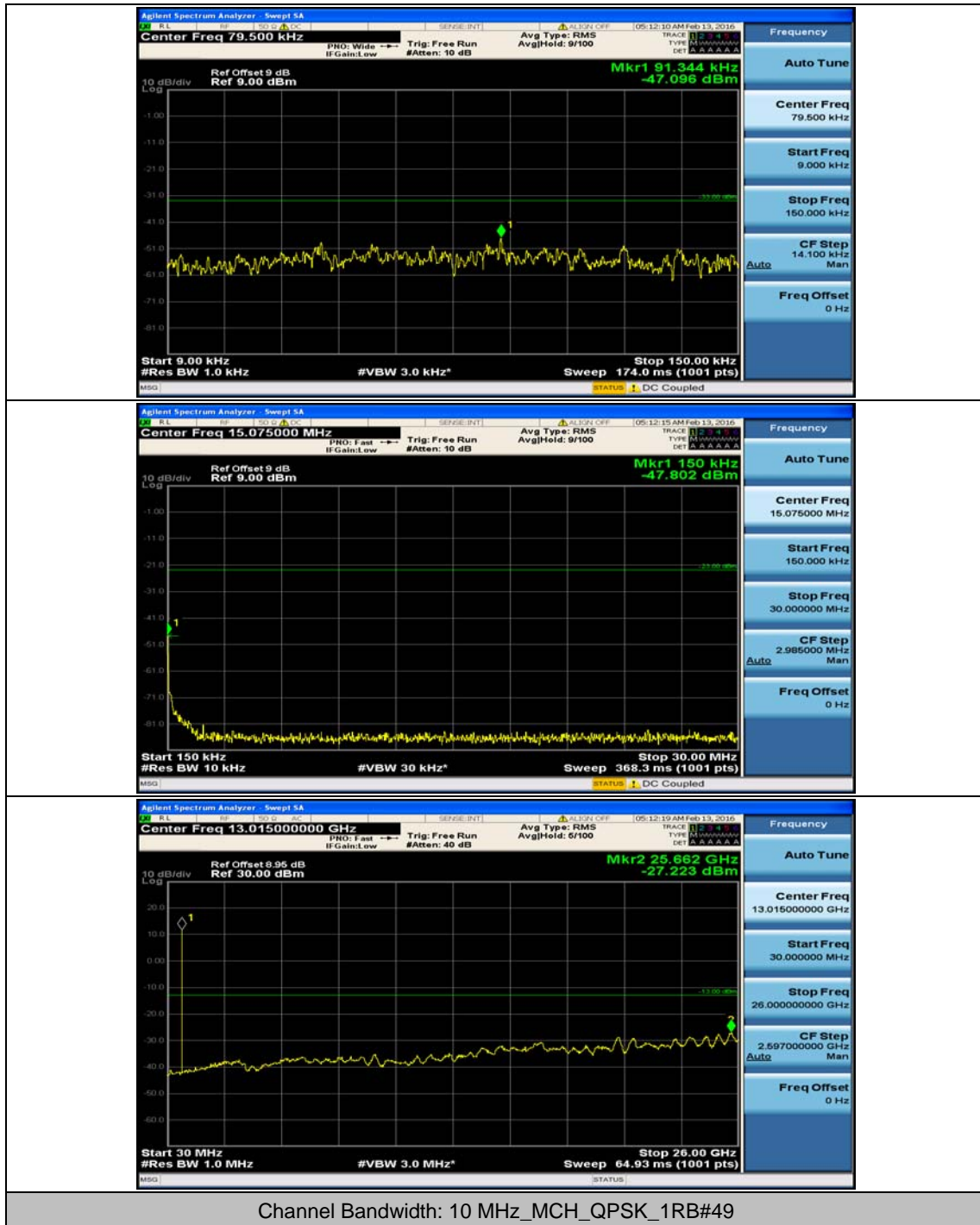
### Channel Bandwidth: 10 MHz

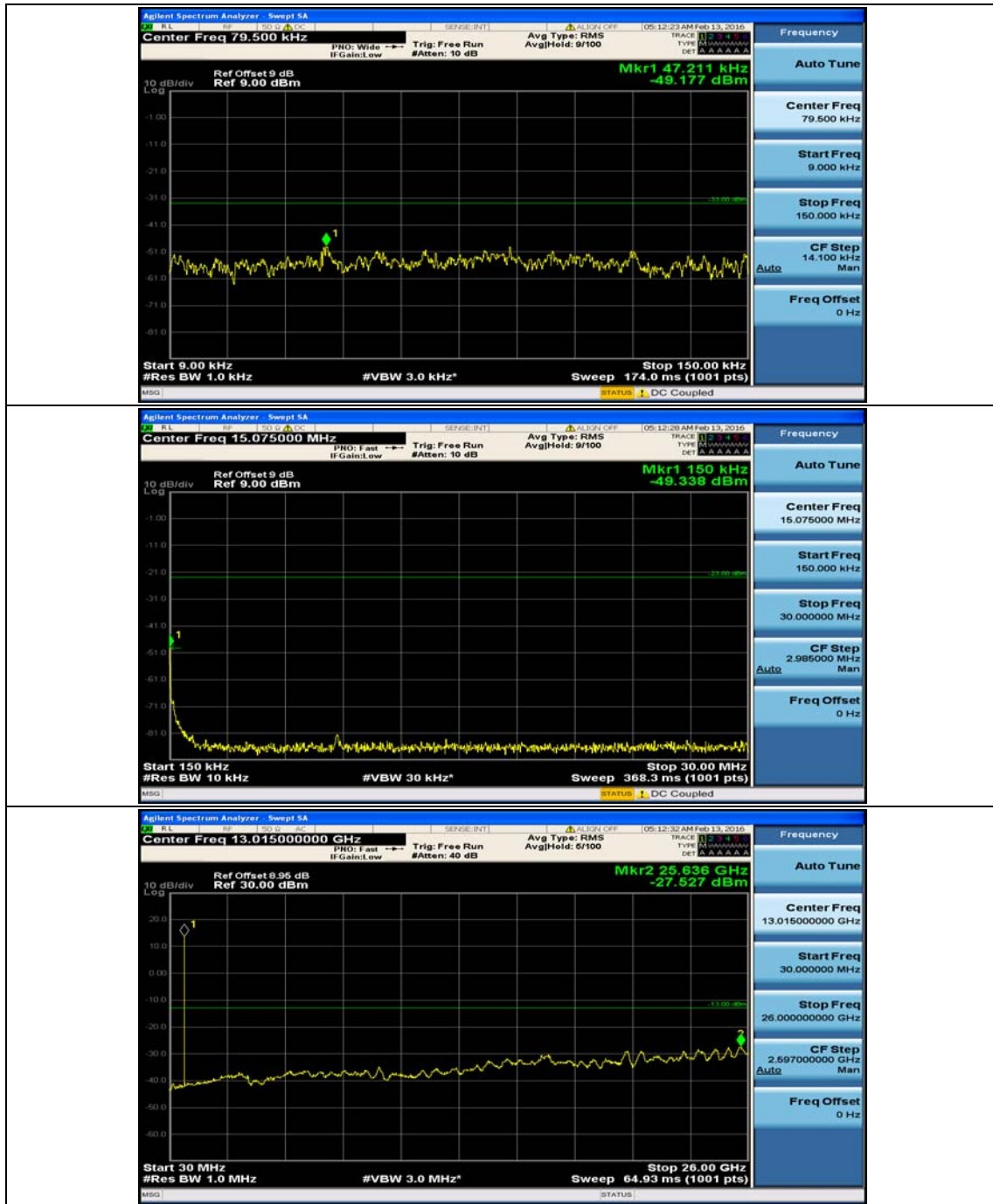




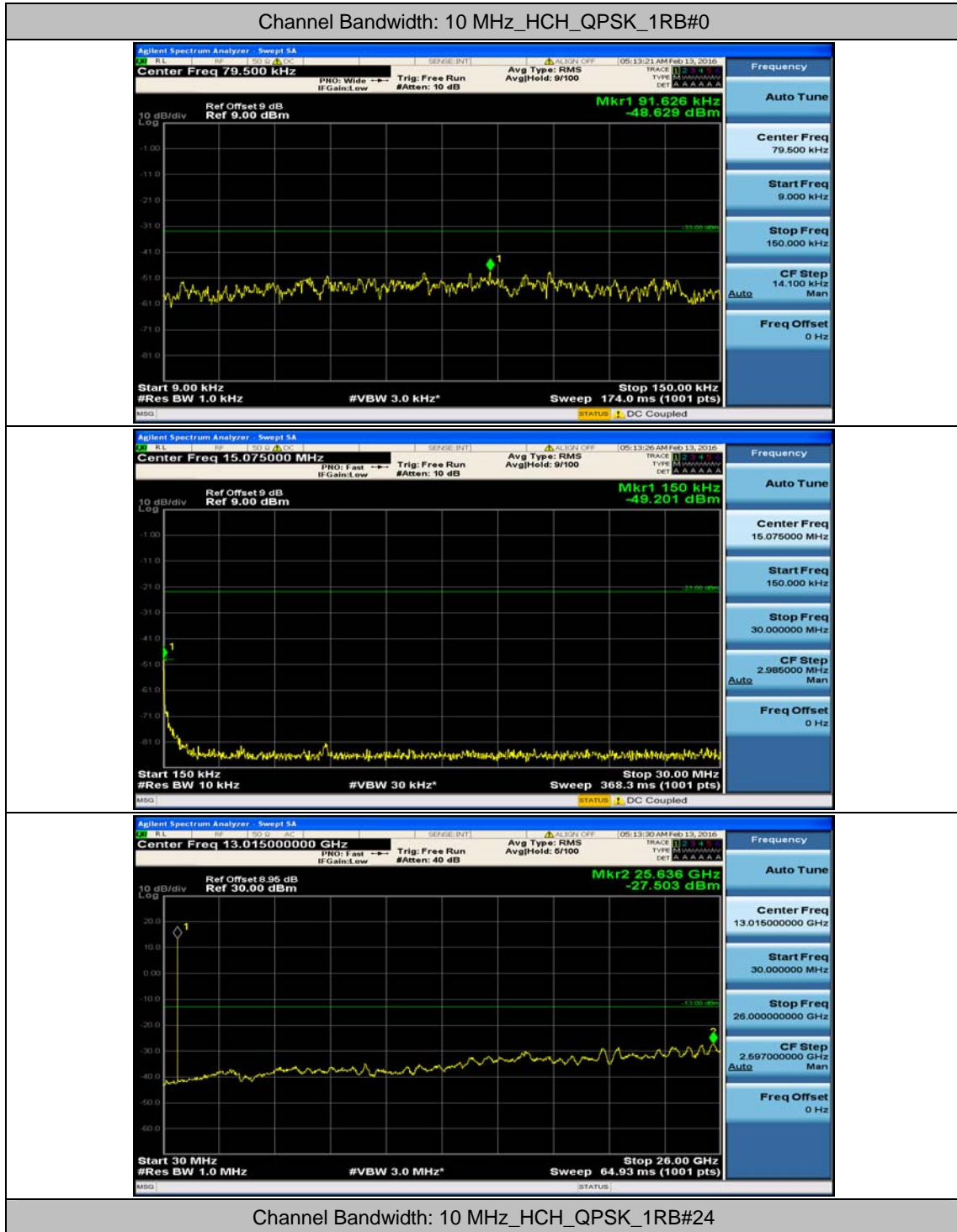


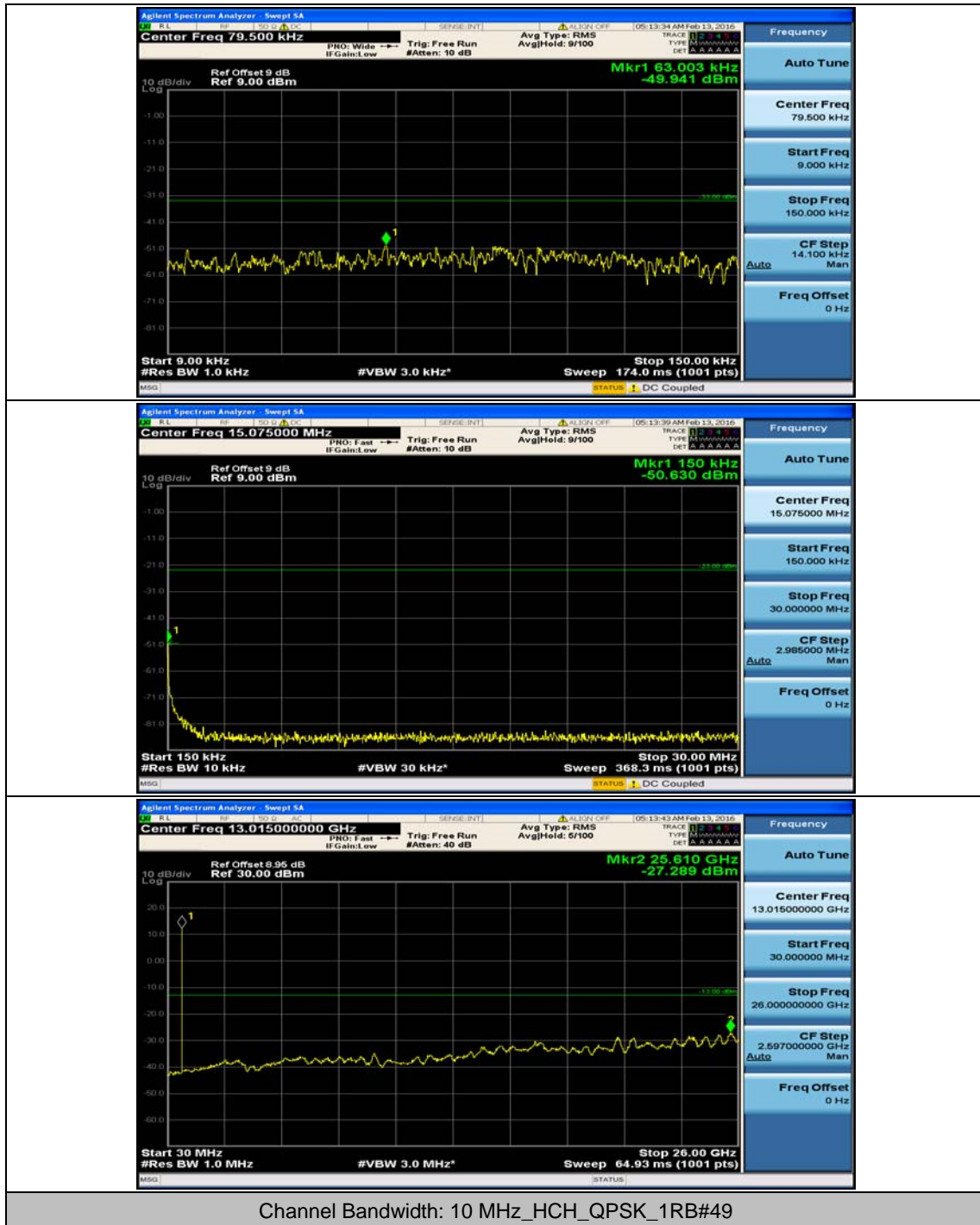


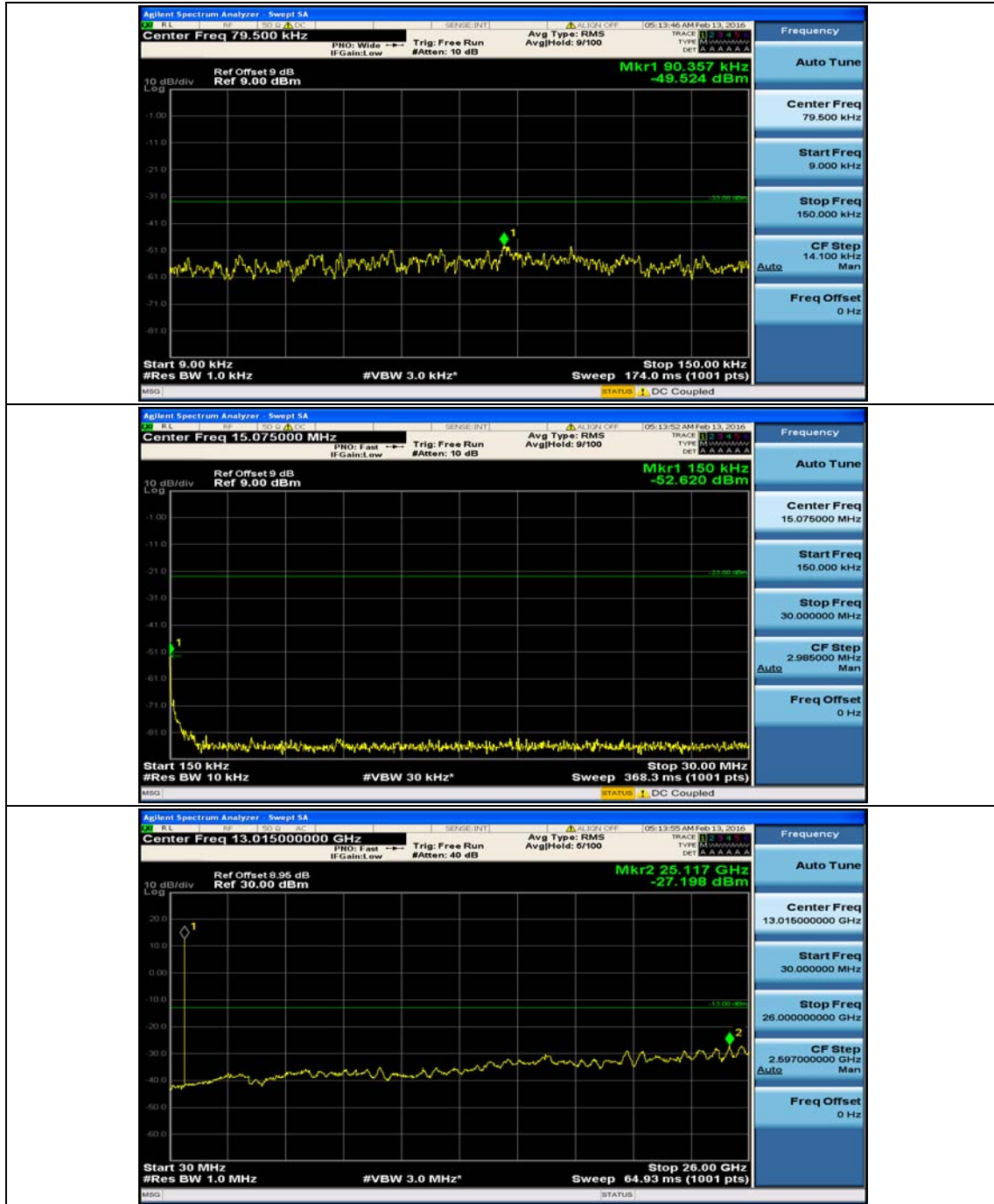




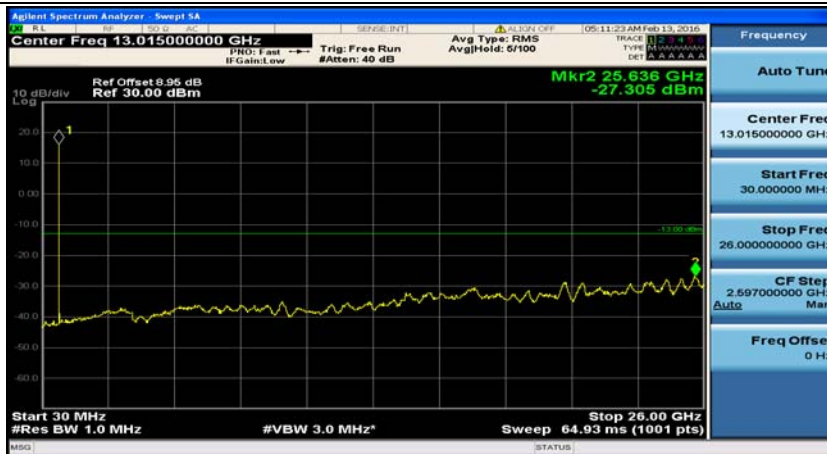
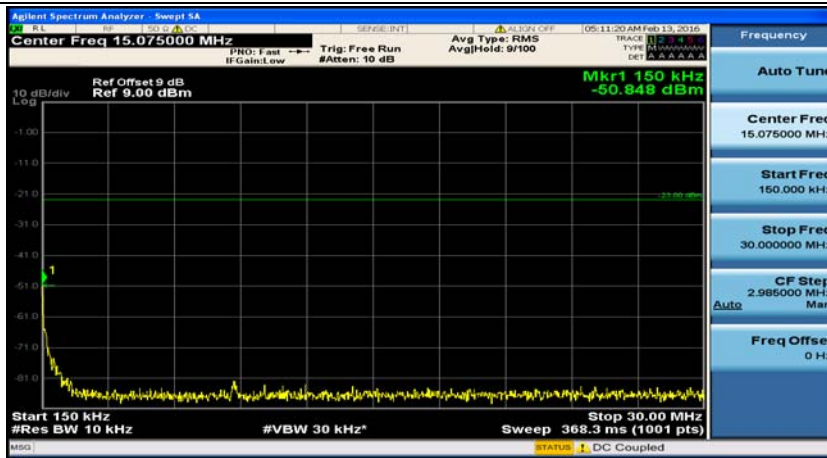




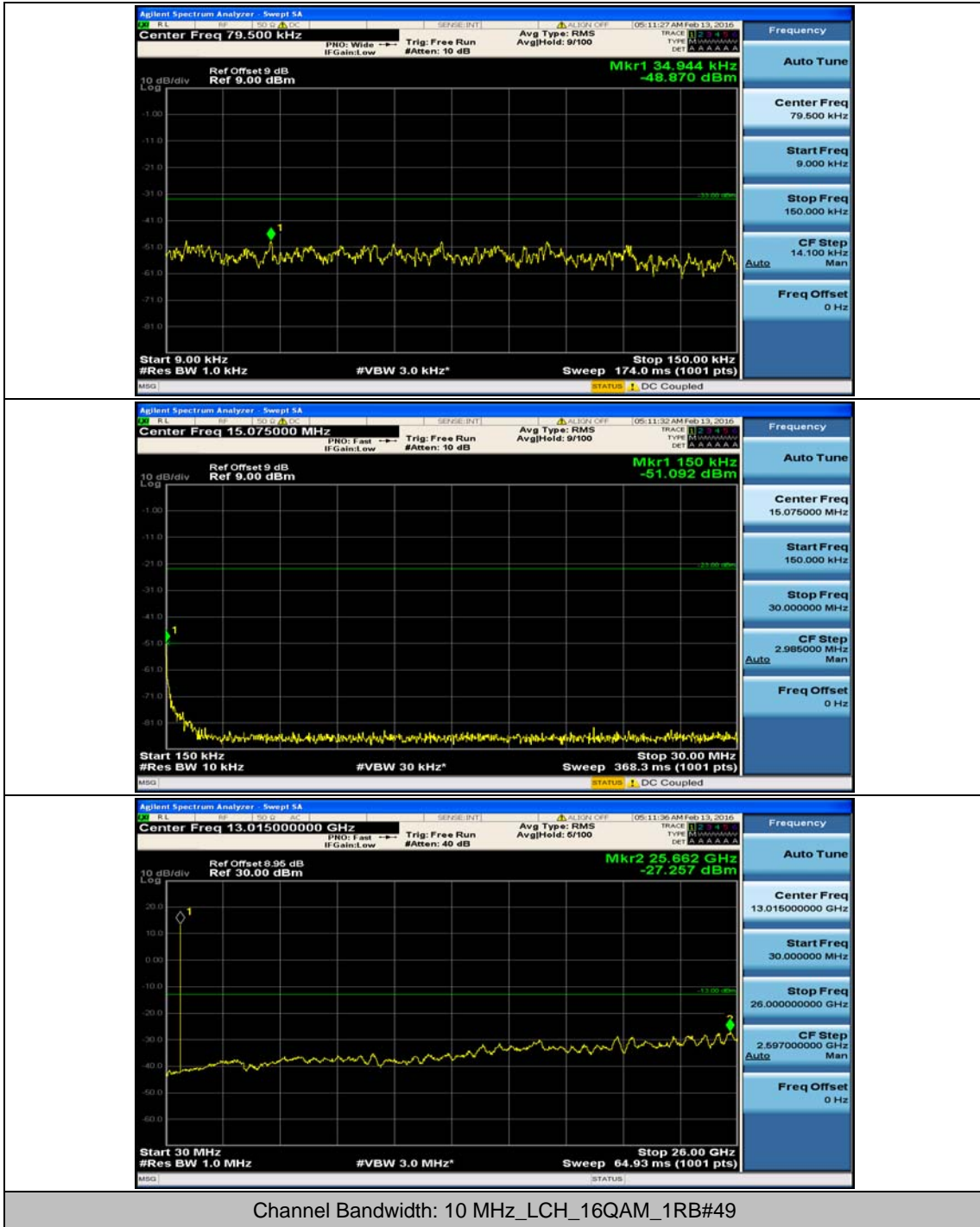


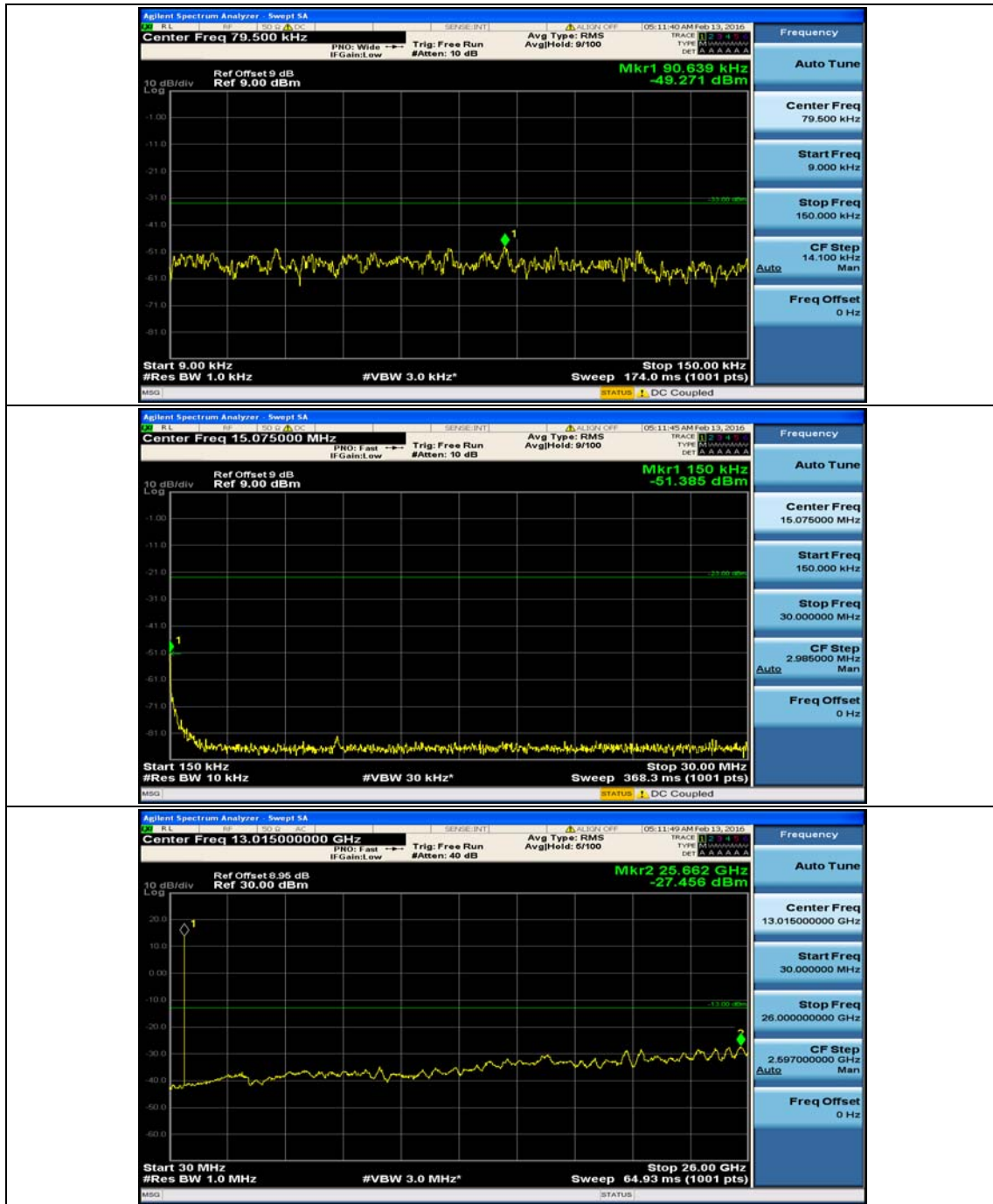


Channel Bandwidth: 10 MHz\_LCH\_16QAM\_1RB#0

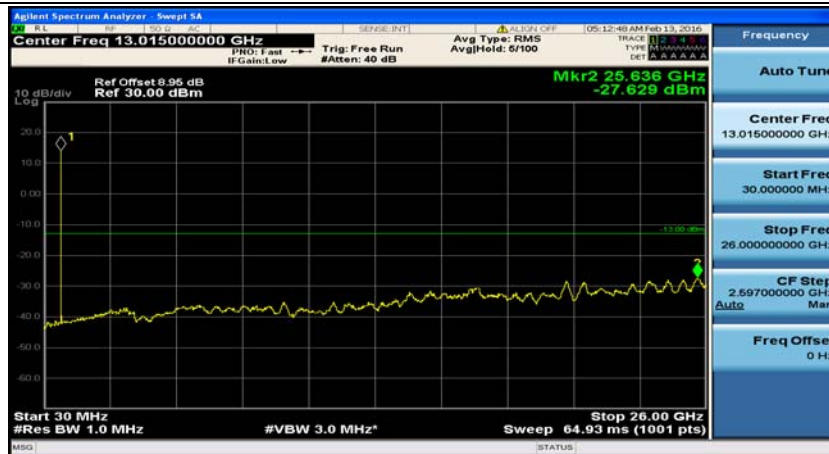
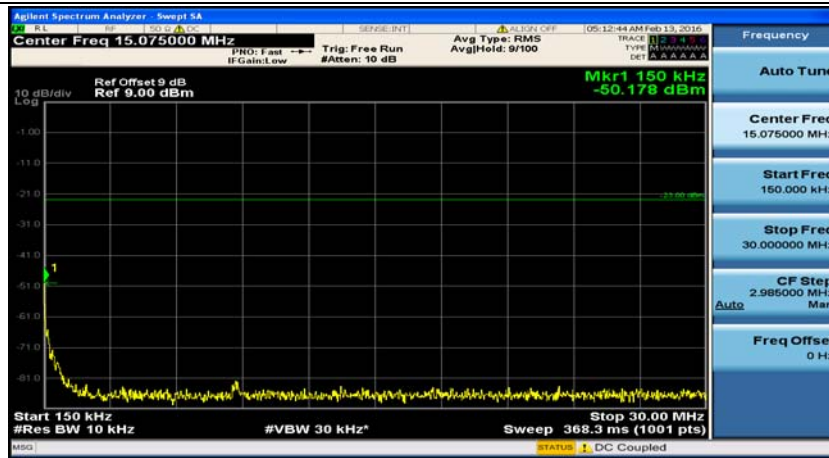


Channel Bandwidth: 10 MHz\_LCH\_16QAM\_1RB#24

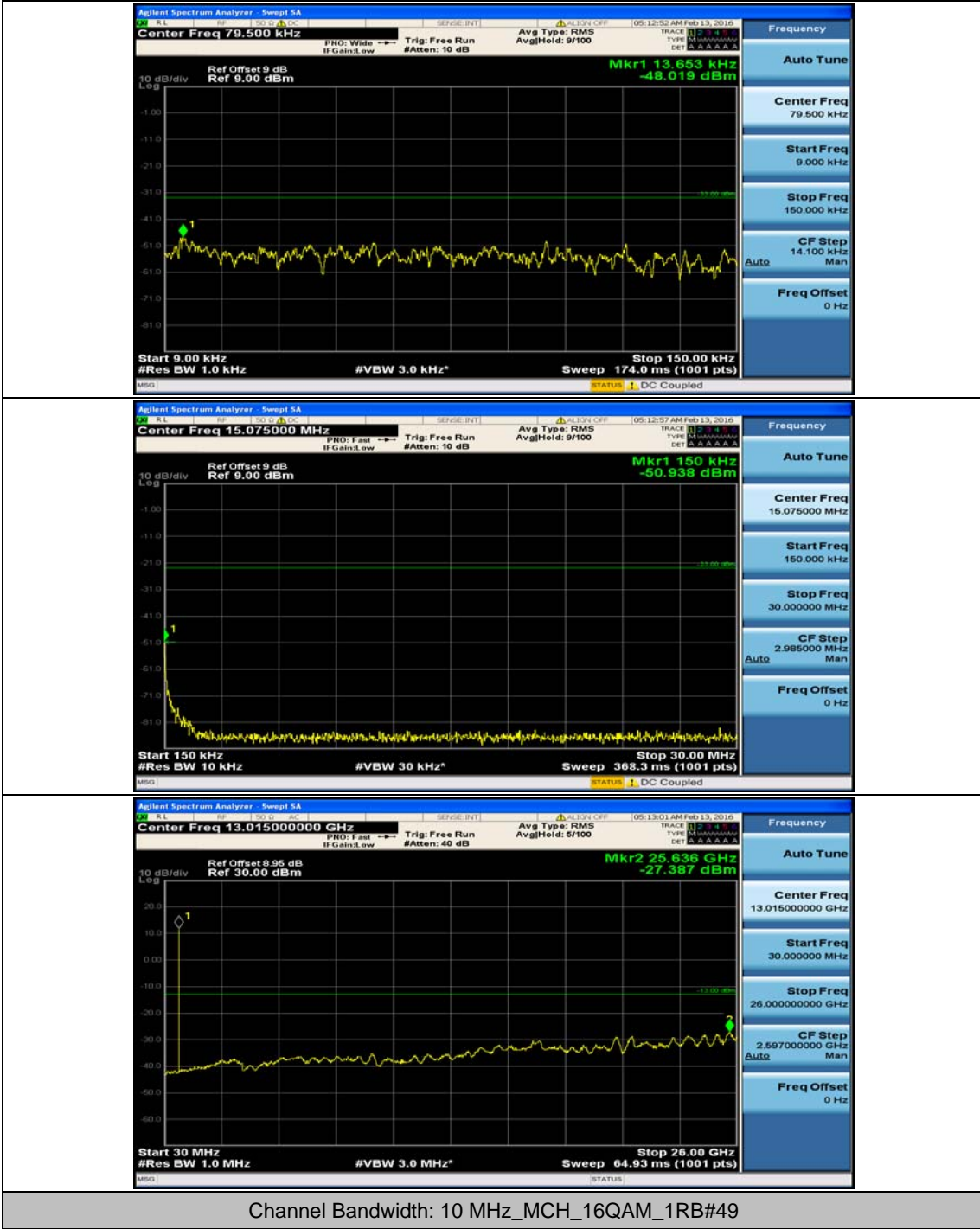




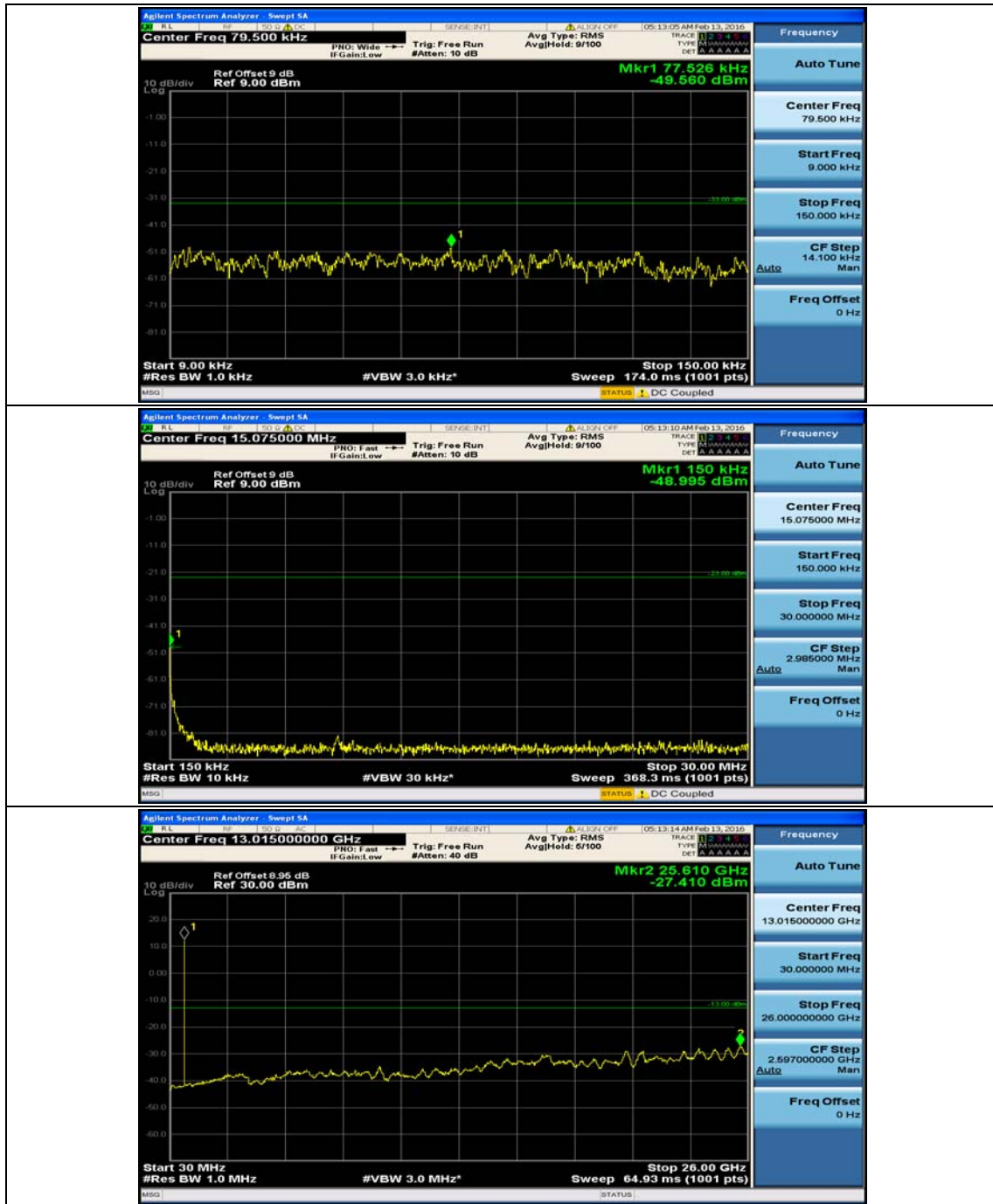
Channel Bandwidth: 10 MHz\_MCH\_16QAM\_1RB#0



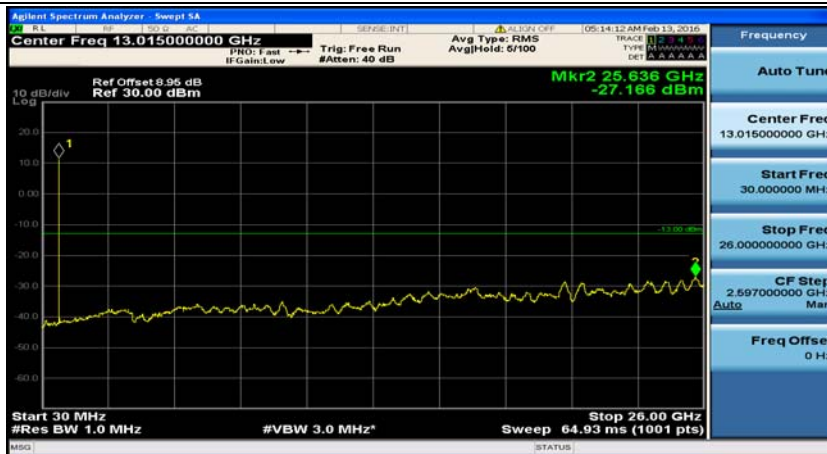
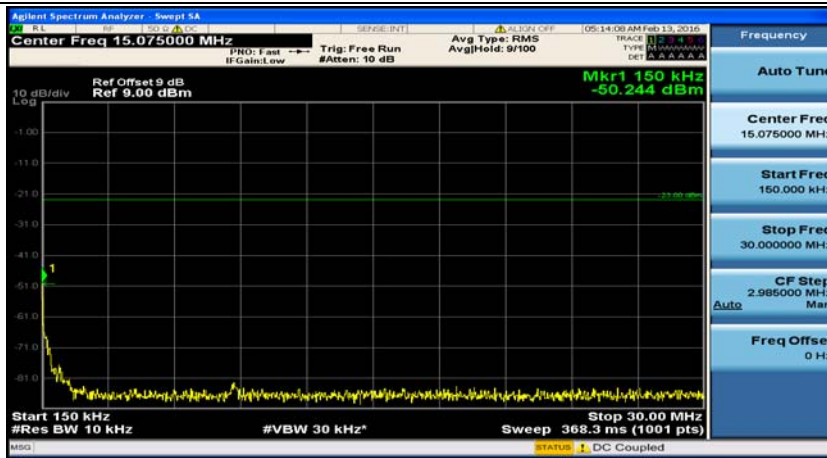
Channel Bandwidth: 10 MHz\_MCH\_16QAM\_1RB#24



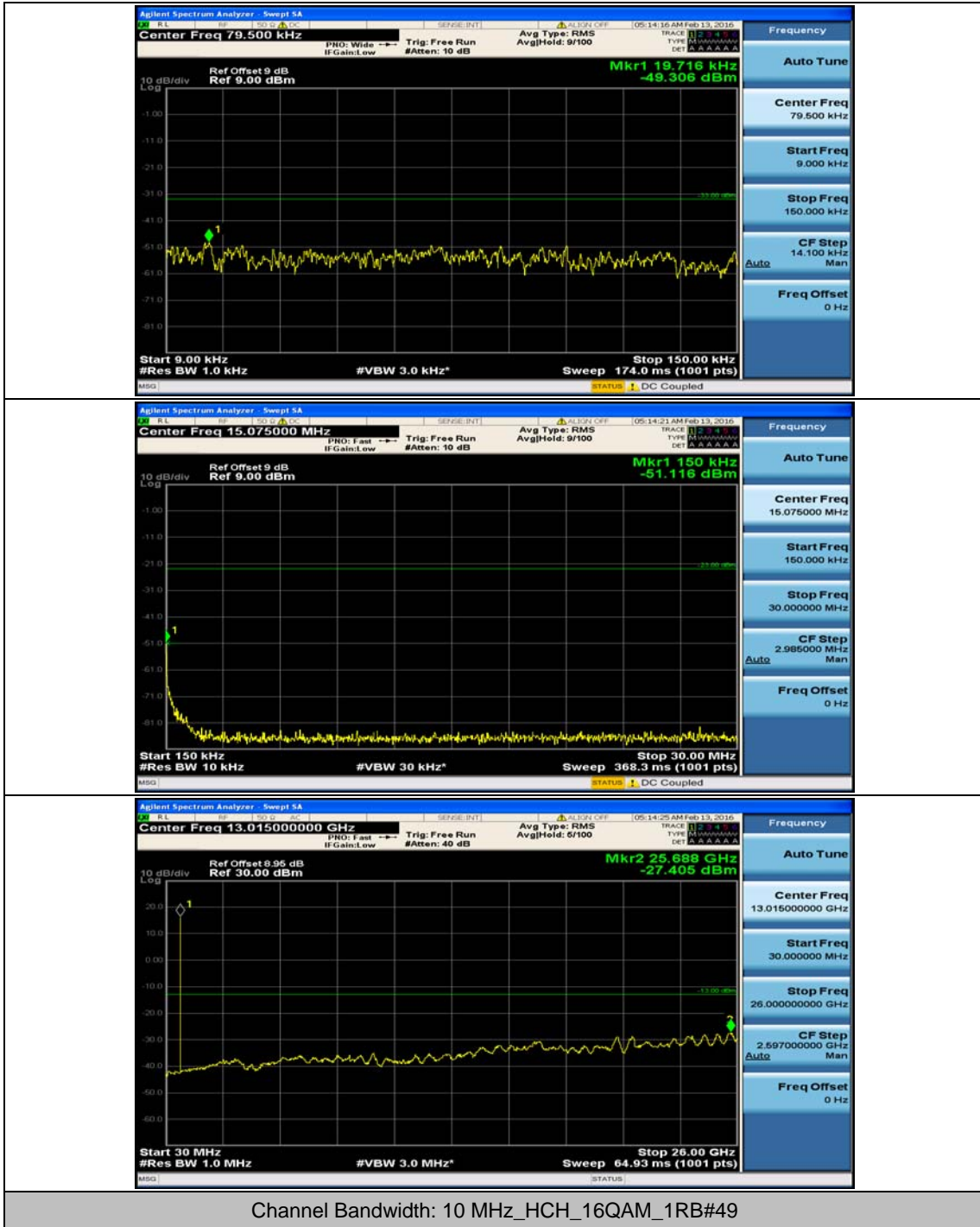


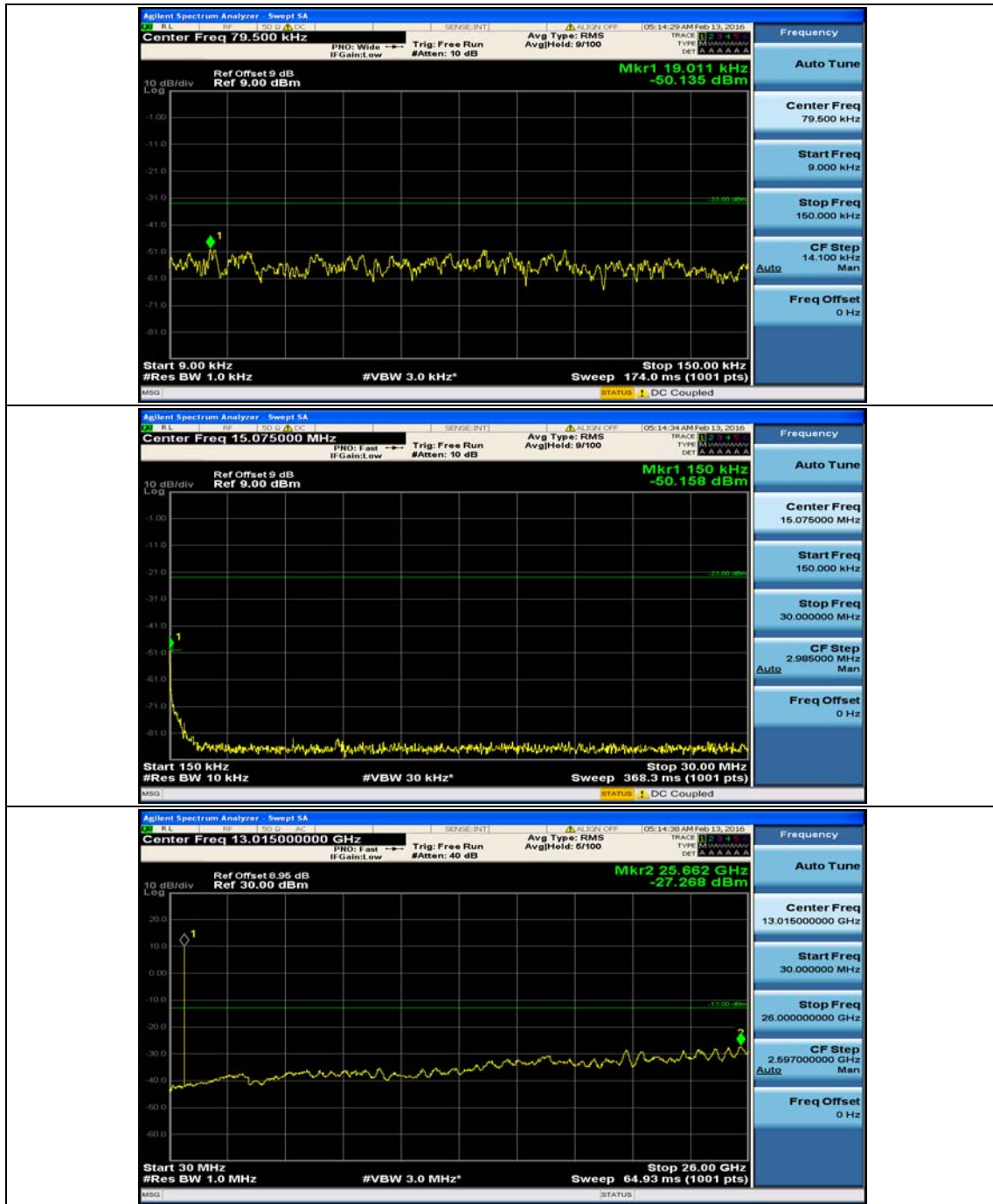


Channel Bandwidth: 10 MHz\_HCH\_16QAM\_1RB#0



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	2.69	0.003808	± 2.5	PASS
		VN	TN	4.02	0.005690	± 2.5	PASS
		VH	TN	4.93	0.006978	± 2.5	PASS
	MCH	VL	TN	-0.94	-0.001324	± 2.5	PASS
		VN	TN	4.32	0.006085	± 2.5	PASS
		VH	TN	-0.08	-0.000113	± 2.5	PASS
	HCH	VL	TN	-1.86	-0.002607	± 2.5	PASS
		VN	TN	0.03	0.000042	± 2.5	PASS
		VH	TN	3.57	0.005004	± 2.5	PASS
16QAM	LCH	VL	TN	4.01	0.005676	± 2.5	PASS
		VN	TN	-1.42	-0.002010	± 2.5	PASS
		VH	TN	4.97	0.007035	± 2.5	PASS
	MCH	VL	TN	-0.65	-0.000915	± 2.5	PASS
		VN	TN	2.51	0.003535	± 2.5	PASS
		VH	TN	3.35	0.004718	± 2.5	PASS
	HCH	VL	TN	3.87	0.005424	± 2.5	PASS
		VN	TN	-1.75	-0.002453	± 2.5	PASS
		VH	TN	3.53	0.004947	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	1.49	0.002109	± 2.5	PASS
		VN	-20	4.63	0.006553	± 2.5	PASS
		VN	-10	1.06	0.001500	± 2.5	PASS
		VN	0	1.35	0.001911	± 2.5	PASS
		VN	10	-1.08	-0.001529	± 2.5	PASS
		VN	20	1.64	0.002321	± 2.5	PASS
		VN	30	4.6	0.006511	± 2.5	PASS
		VN	40	0.8	0.001132	± 2.5	PASS
		VN	50	0.87	0.001231	± 2.5	PASS

	MCH	VN	-30	3.9	0.005493	± 2.5	PASS
		VN	-20	1.28	0.001803	± 2.5	PASS
		VN	-10	0.54	0.000761	± 2.5	PASS
		VN	0	1.54	0.002169	± 2.5	PASS
		VN	10	2.98	0.004197	± 2.5	PASS
		VN	20	4.63	0.006521	± 2.5	PASS
		VN	30	0.44	0.000620	± 2.5	PASS
		VN	40	-1.58	-0.002225	± 2.5	PASS
		VN	50	-0.54	-0.000761	± 2.5	PASS
	HCH	VN	-30	4.71	0.006601	± 2.5	PASS
		VN	-20	3.22	0.004513	± 2.5	PASS
		VN	-10	2.41	0.003378	± 2.5	PASS
		VN	0	1.3	0.001822	± 2.5	PASS
		VN	10	1.23	0.001724	± 2.5	PASS
		VN	20	1.09	0.001528	± 2.5	PASS
		VN	30	2.64	0.003700	± 2.5	PASS
		VN	40	0.71	0.000995	± 2.5	PASS
		VN	50	1.58	0.002214	± 2.5	PASS
16QAM	LCH	VN	-30	0.01	0.000014	± 2.5	PASS
		VN	-20	2.2	0.003114	± 2.5	PASS
		VN	-10	1.49	0.002109	± 2.5	PASS
		VN	0	-0.88	-0.001246	± 2.5	PASS
		VN	10	-0.75	-0.001062	± 2.5	PASS
		VN	20	0.3	0.000425	± 2.5	PASS
		VN	30	0.19	0.000269	± 2.5	PASS
		VN	40	0.82	0.001161	± 2.5	PASS
		VN	50	4.22	0.005973	± 2.5	PASS
	MCH	VN	-30	1.98	0.002789	± 2.5	PASS
		VN	-20	0.99	0.001394	± 2.5	PASS
		VN	-10	1.87	0.002634	± 2.5	PASS
		VN	0	3.51	0.004944	± 2.5	PASS
		VN	10	4.18	0.005887	± 2.5	PASS
		VN	20	1	0.001408	± 2.5	PASS
		VN	30	-1.52	-0.002141	± 2.5	PASS
		VN	40	4.59	0.006465	± 2.5	PASS
		VN	50	3.14	0.004423	± 2.5	PASS
	HCH	VN	-30	0.45	0.000631	± 2.5	PASS
		VN	-20	2.41	0.003378	± 2.5	PASS
		VN	-10	0.35	0.000491	± 2.5	PASS
VN		0	1.15	0.001612	± 2.5	PASS	
VN		10	-1.93	-0.002705	± 2.5	PASS	

		VN	20	-0.75	-0.001051	± 2.5	PASS
		VN	30	1.08	0.001514	± 2.5	PASS
		VN	40	0.06	0.000084	± 2.5	PASS
		VN	50	-0.55	-0.000771	± 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	0.27	0.000381	± 2.5	PASS
		VN	TN	0.79	0.001114	± 2.5	PASS
		VH	TN	0.28	0.000395	± 2.5	PASS
	MCH	VL	TN	1.39	0.001958	± 2.5	PASS
		VN	TN	-0.51	-0.000718	± 2.5	PASS
		VH	TN	0.56	0.000789	± 2.5	PASS
	HCH	VL	TN	-1.59	-0.002236	± 2.5	PASS
		VN	TN	3.85	0.005415	± 2.5	PASS
		VH	TN	4.72	0.006639	± 2.5	PASS
16QAM	LCH	VL	TN	0.54	0.000762	± 2.5	PASS
		VN	TN	2.52	0.003554	± 2.5	PASS
		VH	TN	-0.97	-0.001368	± 2.5	PASS
	MCH	VL	TN	2.54	0.003577	± 2.5	PASS
		VN	TN	0.8	0.001127	± 2.5	PASS
		VH	TN	1.71	0.002408	± 2.5	PASS
	HCH	VL	TN	0.21	0.000295	± 2.5	PASS
		VN	TN	2.53	0.003558	± 2.5	PASS
		VH	TN	3.19	0.004487	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-0.34	-0.000480	± 2.5	PASS
		VN	-20	1.75	0.002468	± 2.5	PASS
		VN	-10	-1.74	-0.002454	± 2.5	PASS
		VN	0	-1.49	-0.002102	± 2.5	PASS
		VN	10	-0.79	-0.001114	± 2.5	PASS
		VN	20	-1.51	-0.002130	± 2.5	PASS
		VN	30	1.66	0.002341	± 2.5	PASS
		VN	40	1.25	0.001763	± 2.5	PASS
		VN	50	2.31	0.003258	± 2.5	PASS
	MCH	VN	-30	3.84	0.005408	± 2.5	PASS

		VN	-20	-1.83	-0.002577	± 2.5	PASS
		VN	-10	-0.11	-0.000155	± 2.5	PASS
		VN	0	-0.21	-0.000296	± 2.5	PASS
		VN	10	-1.53	-0.002155	± 2.5	PASS
		VN	20	2.31	0.003254	± 2.5	PASS
		VN	30	1.72	0.002423	± 2.5	PASS
		VN	40	-0.65	-0.000915	± 2.5	PASS
		VN	50	2.85	0.004014	± 2.5	PASS
	HCH	VN	-30	-0.56	-0.000788	± 2.5	PASS
		VN	-20	2.15	0.003024	± 2.5	PASS
		VN	-10	2.81	0.003952	± 2.5	PASS
		VN	0	3.02	0.004248	± 2.5	PASS
		VN	10	2.43	0.003418	± 2.5	PASS
		VN	20	-1.58	-0.002222	± 2.5	PASS
		VN	30	0.5	0.000703	± 2.5	PASS
		VN	40	4.23	0.005949	± 2.5	PASS
		VN	50	-1.79	-0.002518	± 2.5	PASS
		16QAM	LCH	VN	-30	-1.97	-0.002779
VN	-20			-0.11	-0.000155	± 2.5	PASS
VN	-10			-1.8	-0.002539	± 2.5	PASS
VN	0			1.93	0.002722	± 2.5	PASS
VN	10			4.06	0.005726	± 2.5	PASS
VN	20			-1.71	-0.002412	± 2.5	PASS
VN	30			0.14	0.000197	± 2.5	PASS
VN	40			2.79	0.003935	± 2.5	PASS
VN	50			3.94	0.005557	± 2.5	PASS
MCH	VN		-30	1.54	0.002169	± 2.5	PASS
	VN		-20	-1.13	-0.001592	± 2.5	PASS
	VN		-10	-0.46	-0.000648	± 2.5	PASS
	VN		0	4.73	0.006662	± 2.5	PASS
	VN		10	-0.54	-0.000761	± 2.5	PASS
	VN		20	1.82	0.002563	± 2.5	PASS
	VN		30	0.59	0.000831	± 2.5	PASS
	VN		40	-0.29	-0.000408	± 2.5	PASS
	VN		50	1.79	0.002521	± 2.5	PASS
HCH	VN		-30	3.58	0.005035	± 2.5	PASS
	VN		-20	4.78	0.006723	± 2.5	PASS
	VN		-10	2.84	0.003994	± 2.5	PASS
	VN		0	4.28	0.006020	± 2.5	PASS
	VN		10	-0.07	-0.000098	± 2.5	PASS
	VN		20	0.22	0.000309	± 2.5	PASS



		VN	30	4.29	0.006034	± 2.5	PASS
		VN	40	0.2	0.000281	± 2.5	PASS
		VN	50	3.97	0.005584	± 2.5	PASS