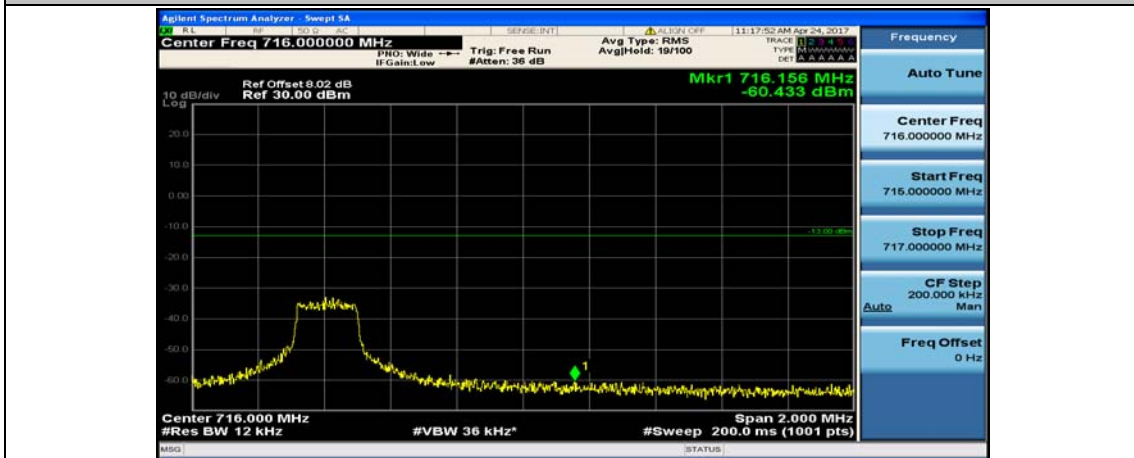




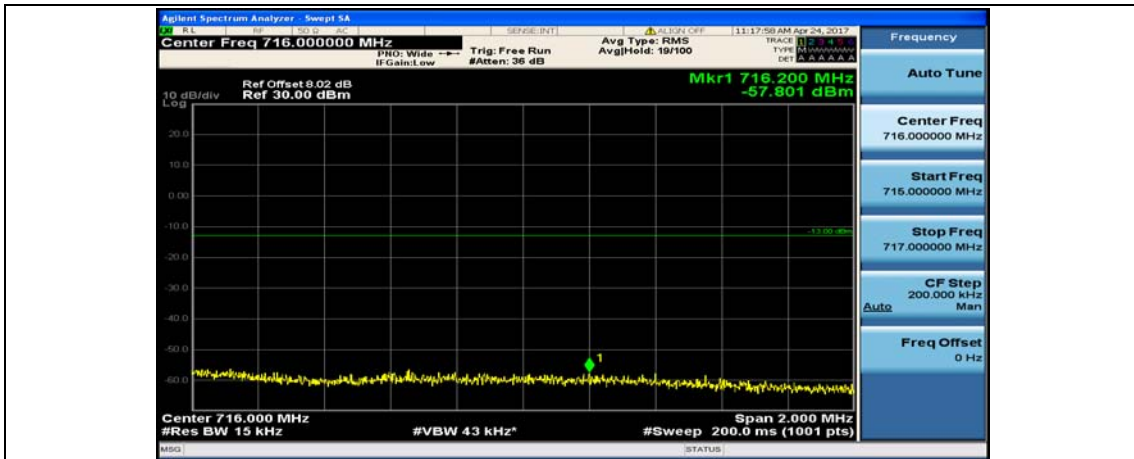
Channel Bandwidth: 10 MHz\_LCH\_QPSK\_50RB#0



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



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



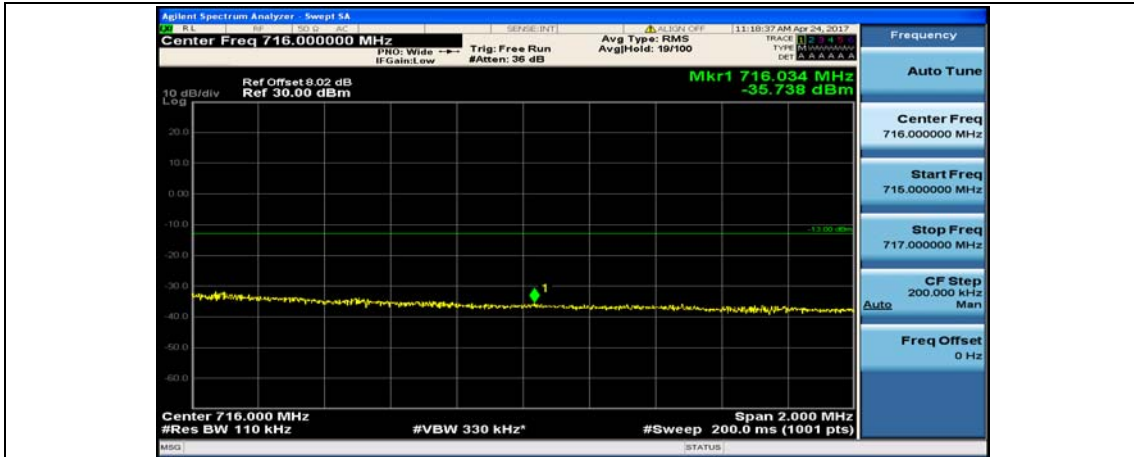
Channel Bandwidth: 10 MHz\_HCH\_QPSK\_1RB#49



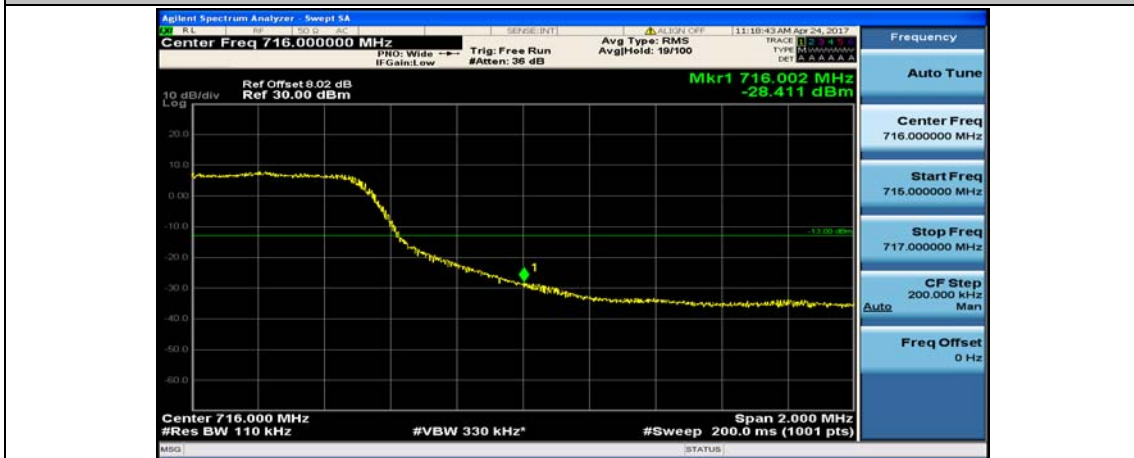
Channel Bandwidth: 10 MHz\_HCH\_QPSK\_25RB#0



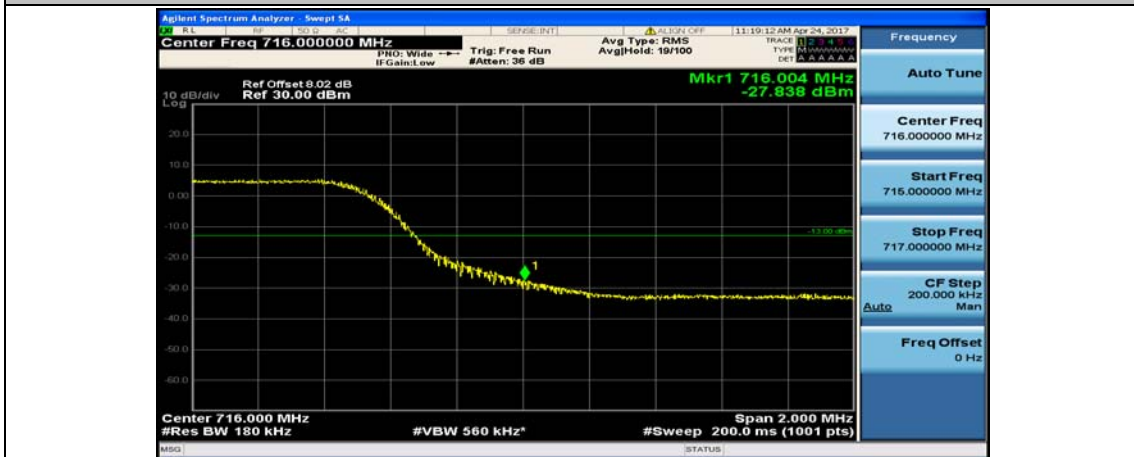
Channel Bandwidth: 10 MHz\_HCH\_QPSK\_25RB#12



Channel Bandwidth: 10 MHz\_HCH\_QPSK\_25RB#25



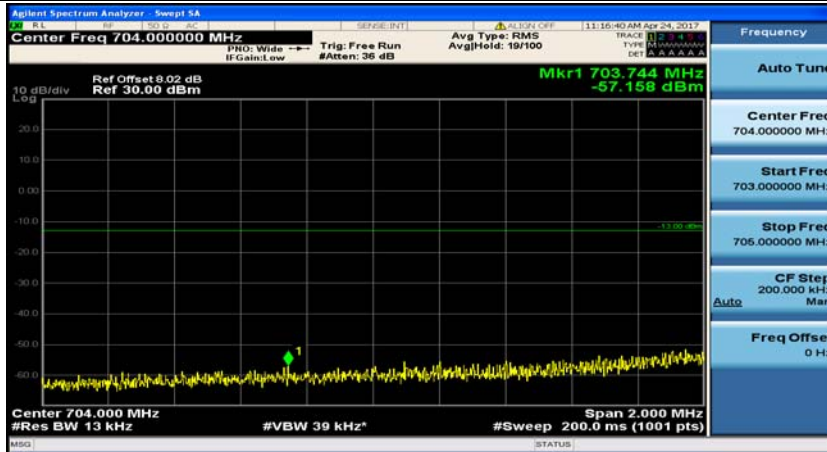
Channel Bandwidth: 10 MHz\_HCH\_QPSK\_50RB#0



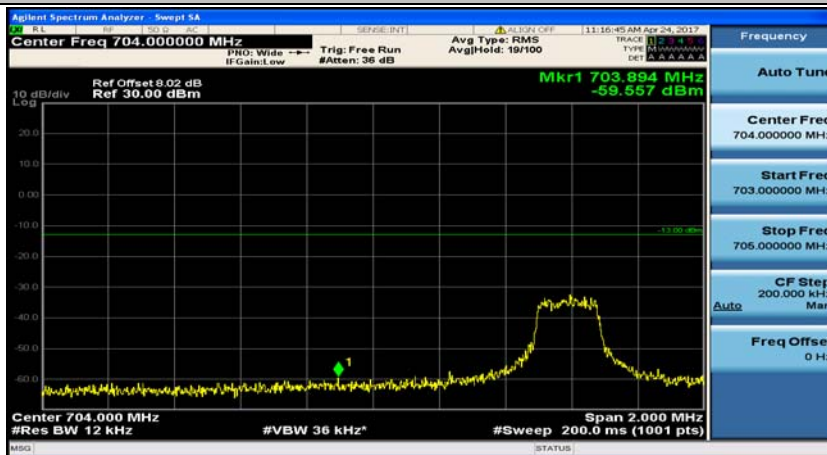
Channel Bandwidth: 10 MHz\_LCH\_16QAM\_1RB#0



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



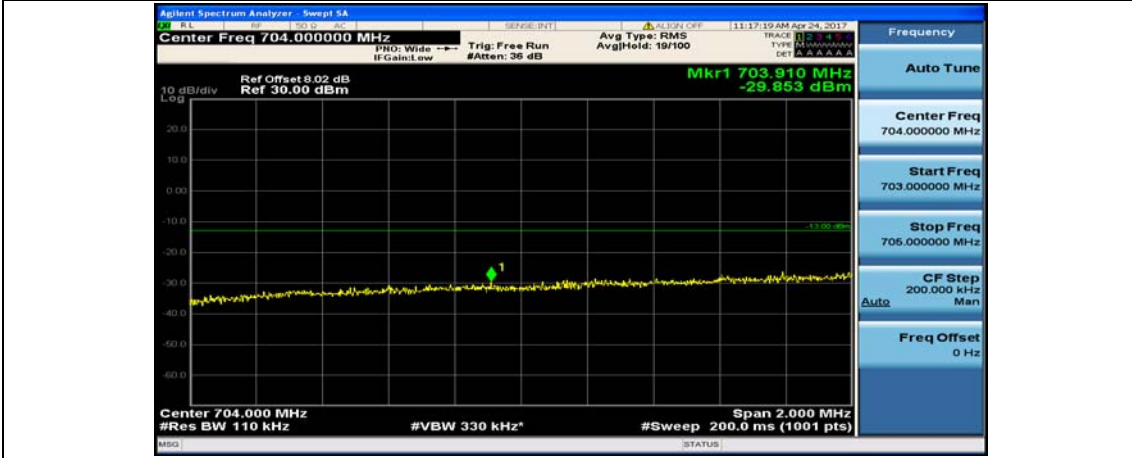
Channel Bandwidth: 10 MHz\_LCH\_16QAM\_1RB#49



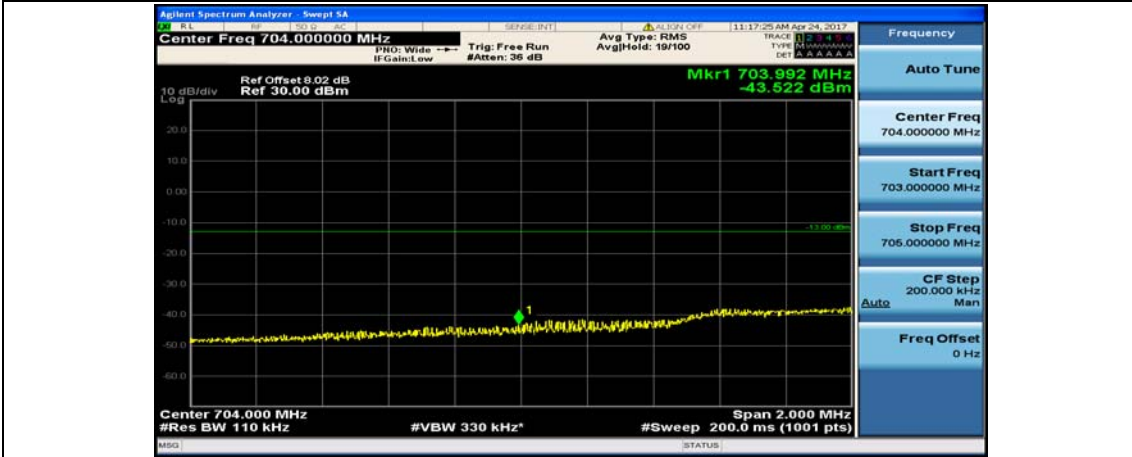
Channel Bandwidth: 10 MHz\_LCH\_16QAM\_25RB#0



Channel Bandwidth: 10 MHz\_LCH\_16QAM\_25RB#12



Channel Bandwidth: 10 MHz\_LCH\_16QAM\_25RB#25

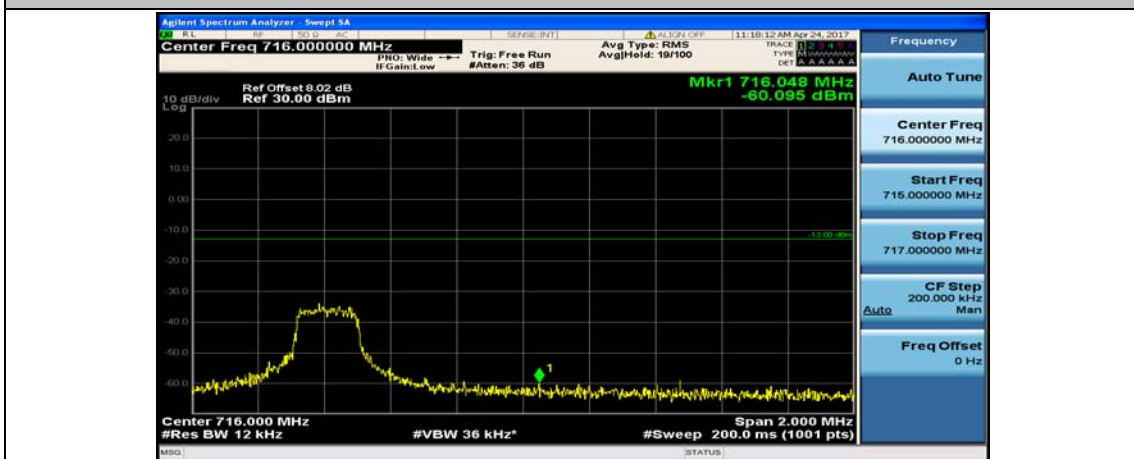


Channel Bandwidth: 10 MHz\_LCH\_16QAM\_50RB#0

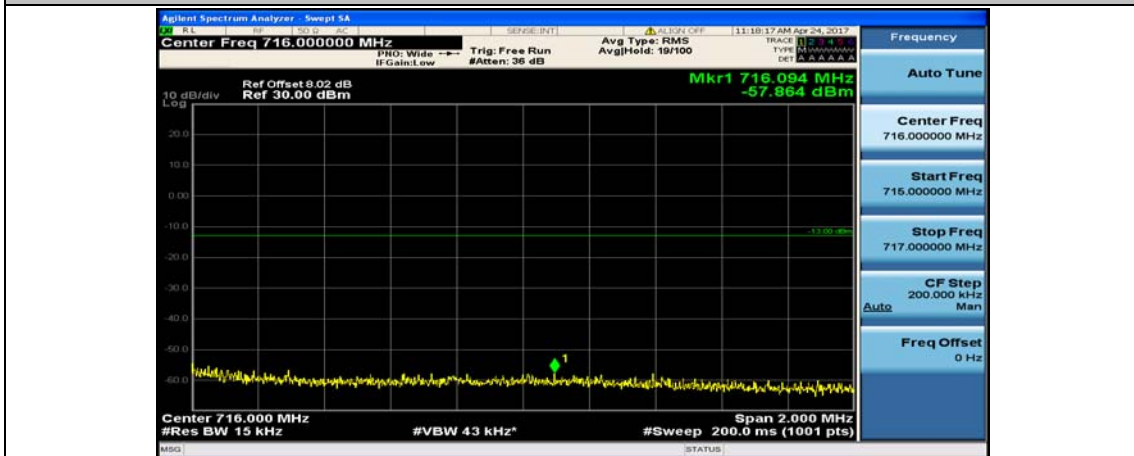




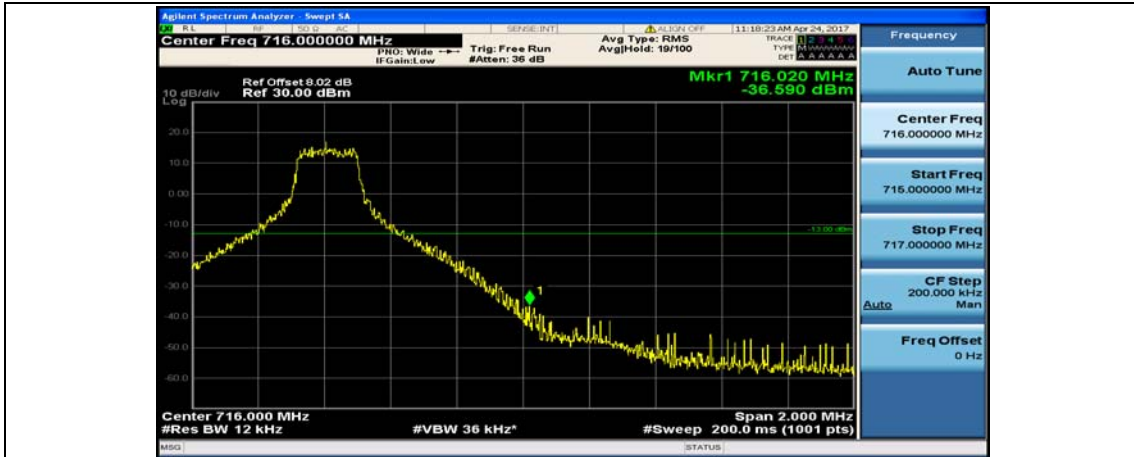
Channel Bandwidth: 10 MHz\_HCH\_16QAM\_1RB#0



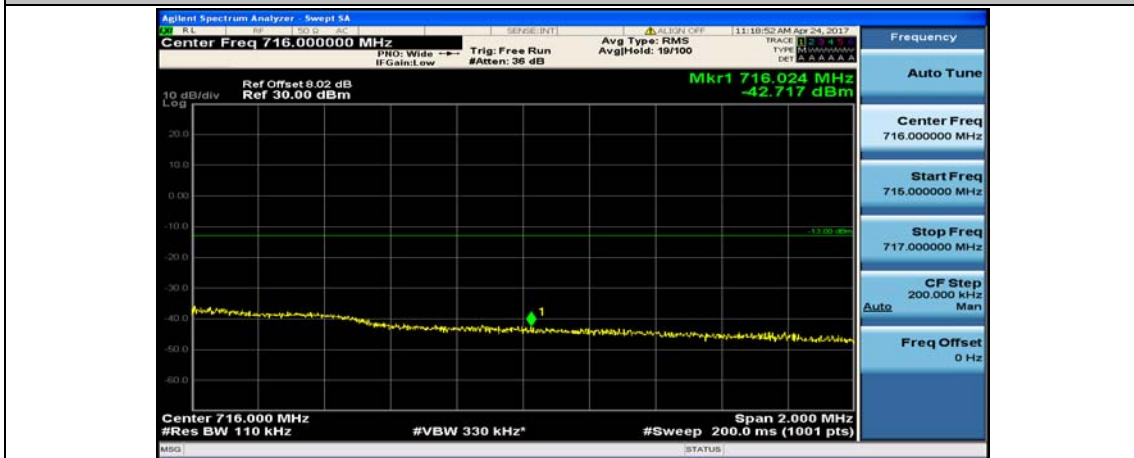
Channel Bandwidth: 10 MHz\_HCH\_16QAM\_1RB#24



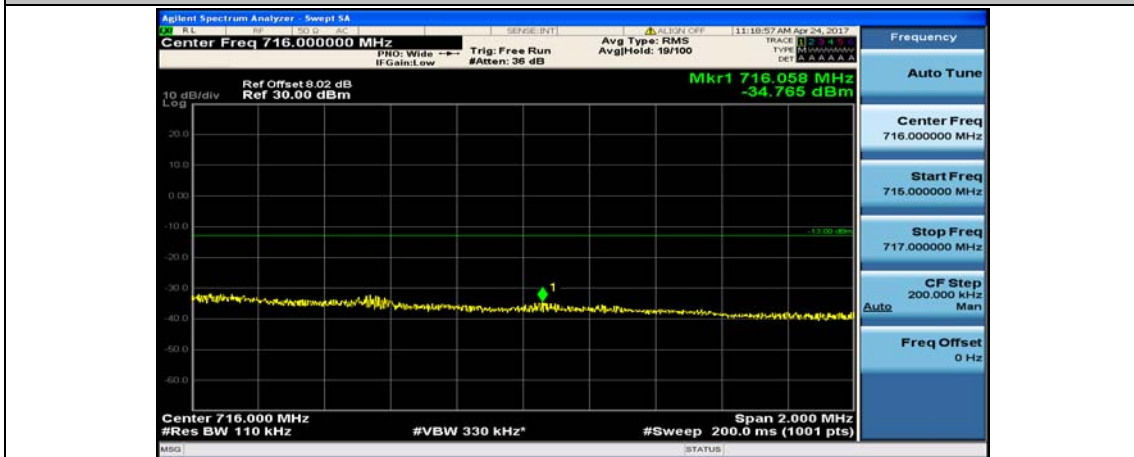
Channel Bandwidth: 10 MHz\_HCH\_16QAM\_1RB#49



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



Channel Bandwidth: 10 MHz\_HCH\_16QAM\_25RB#12



Channel Bandwidth: 10 MHz\_HCH\_16QAM\_25RB#25



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

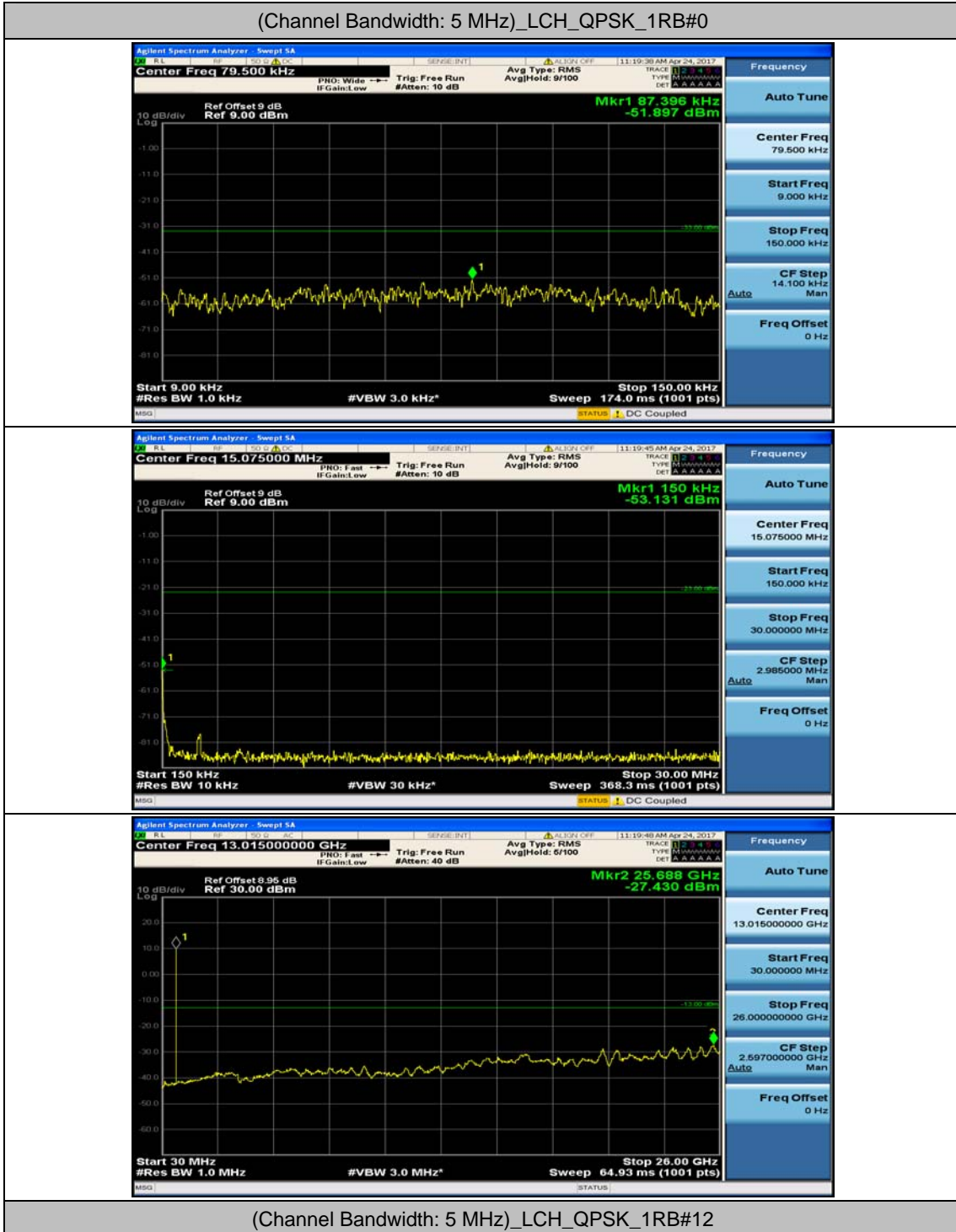


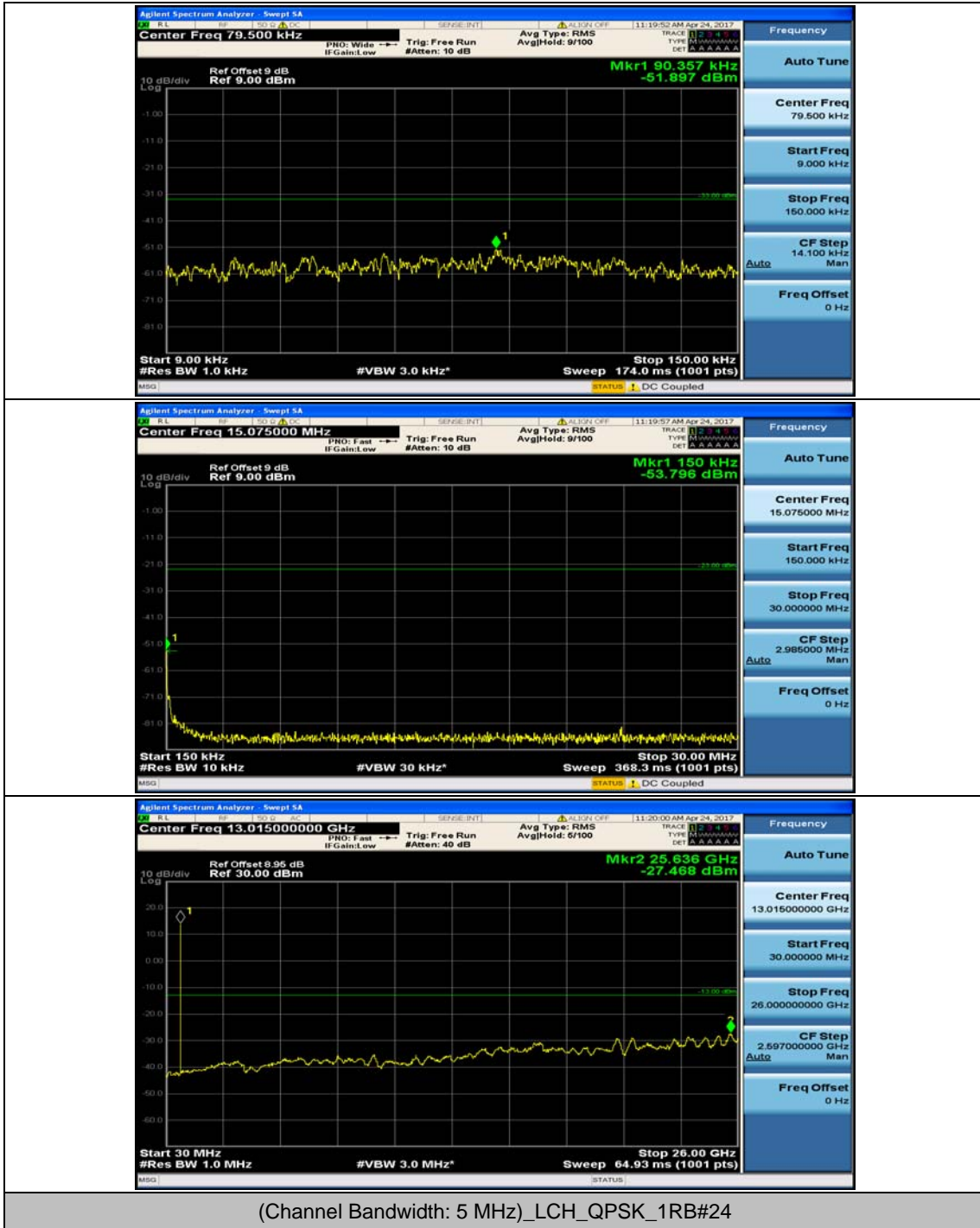


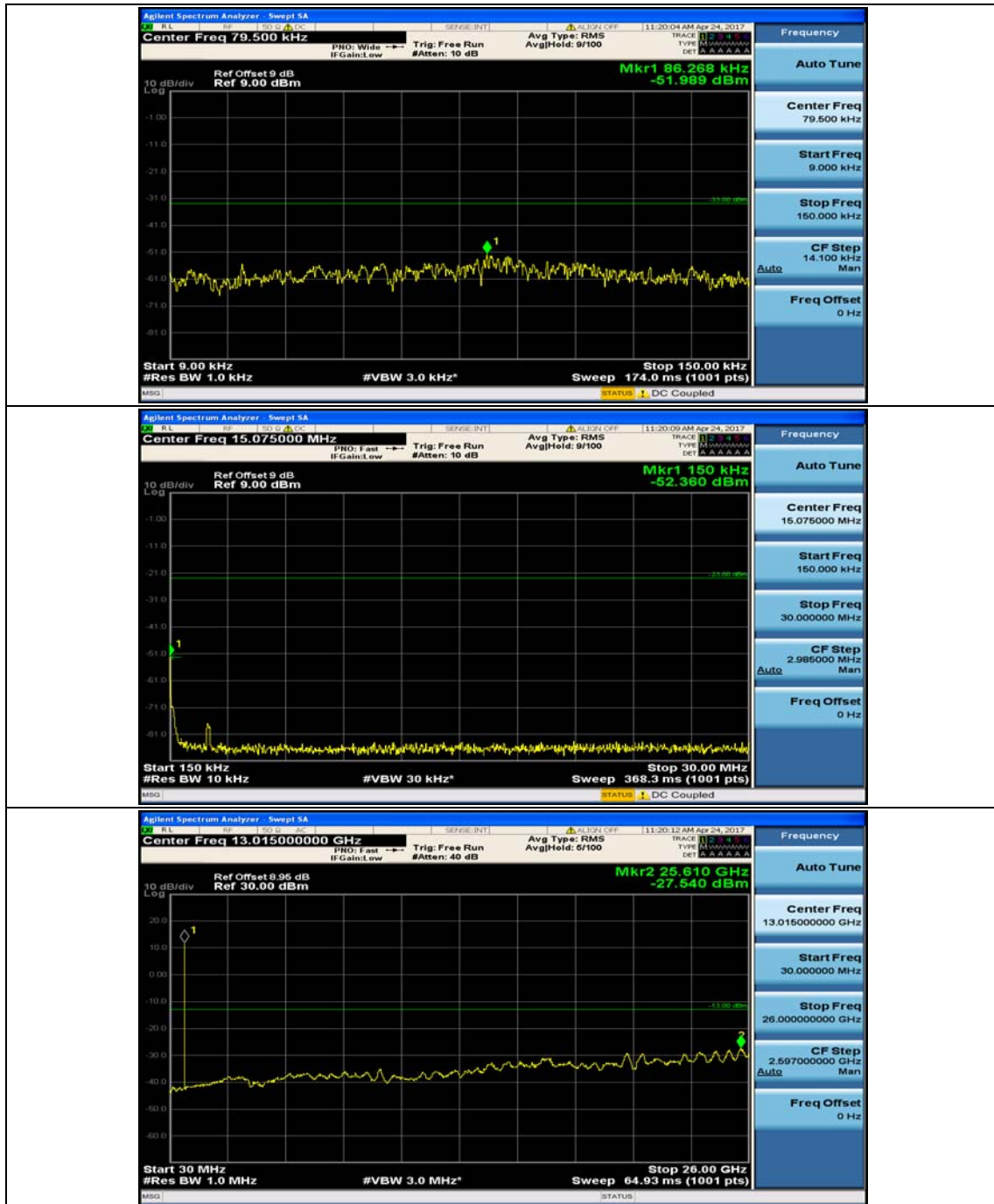
## Appendix E: Conducted Spurious Emission

### Test Graphs

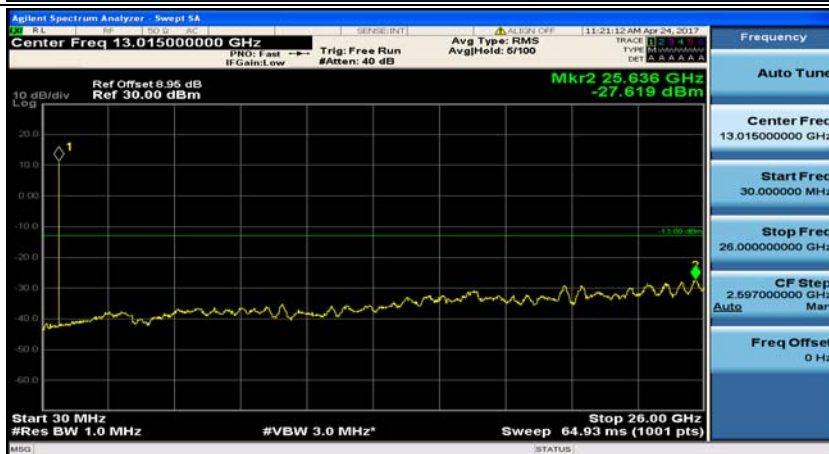
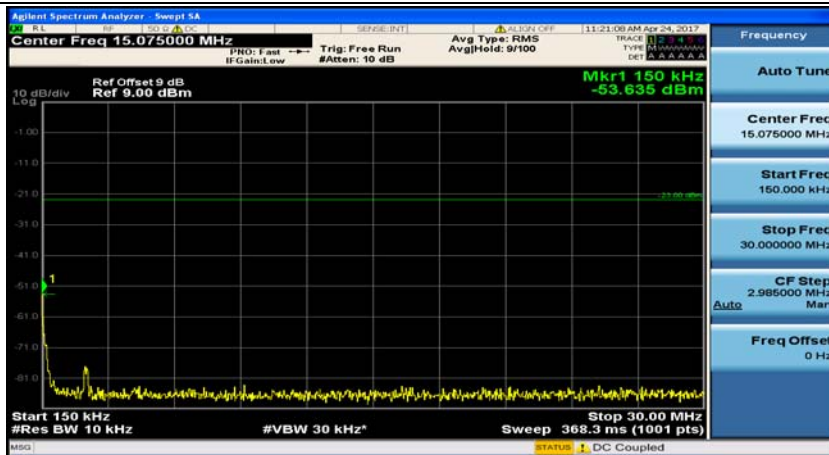
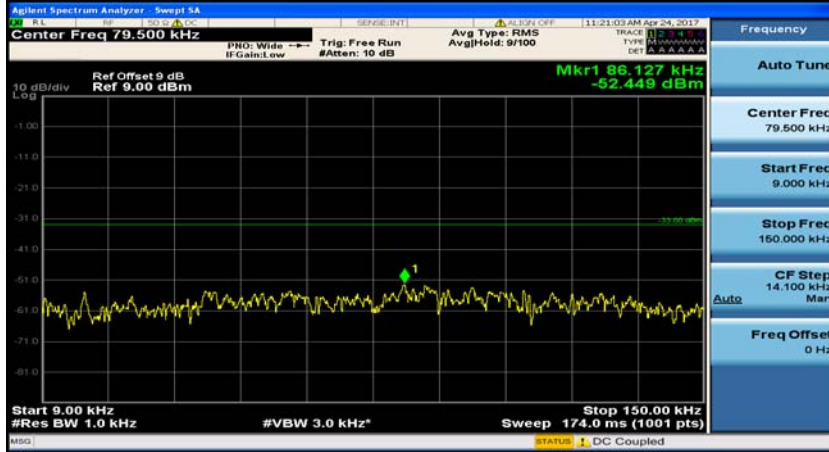
Channel Bandwidth: 5 MHz



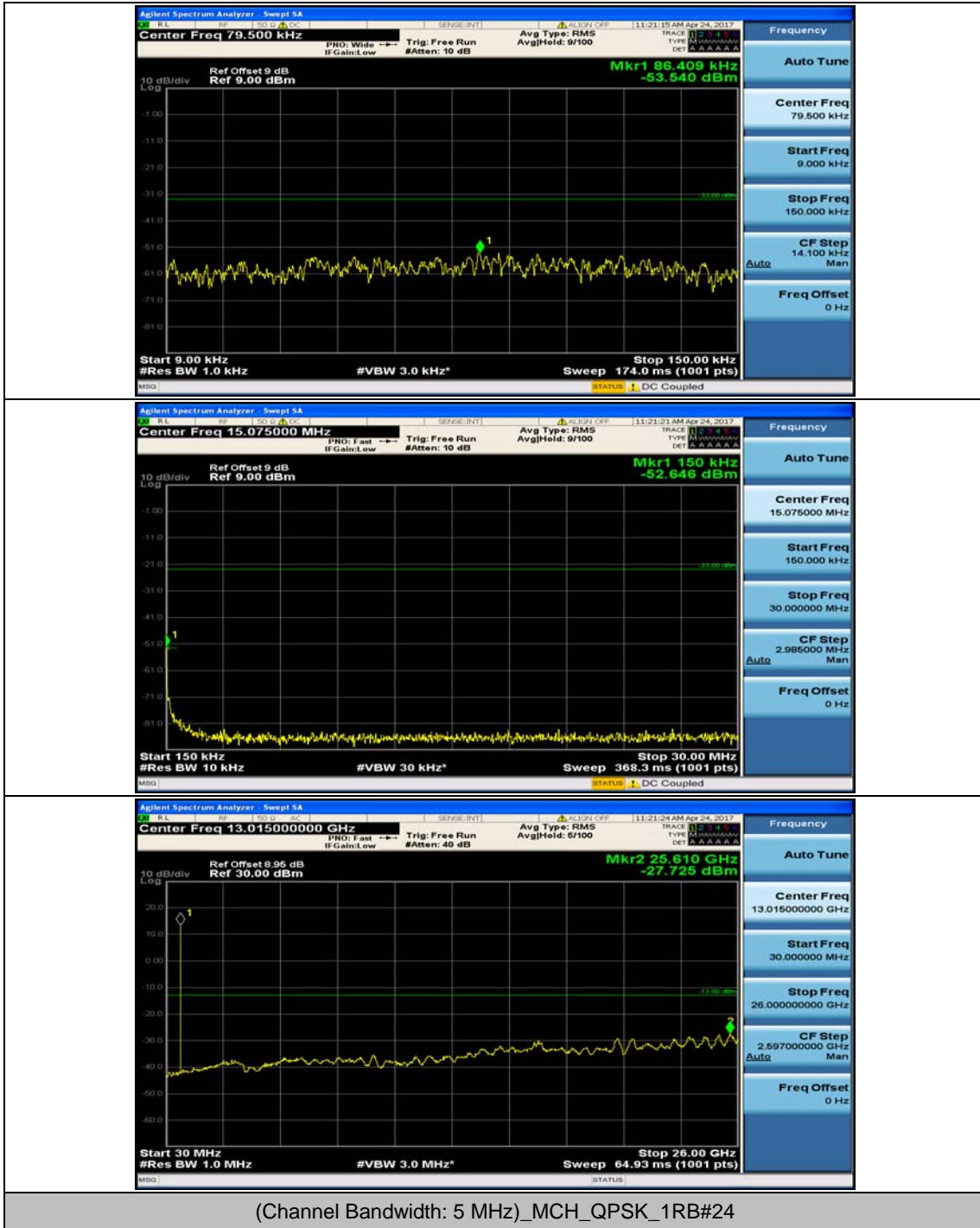




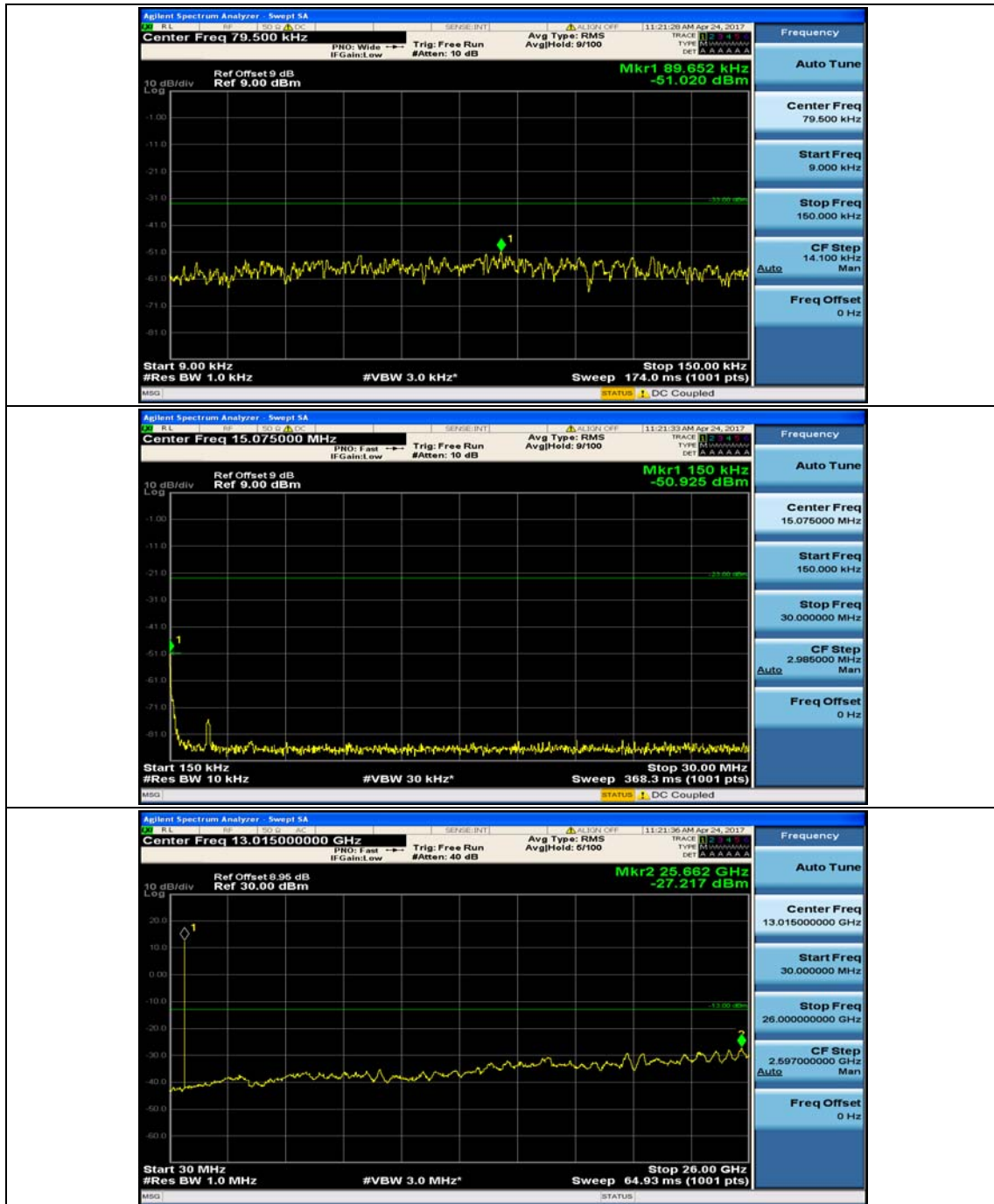
(Channel Bandwidth: 5 MHz)\_MCH\_QPSK\_1RB#0



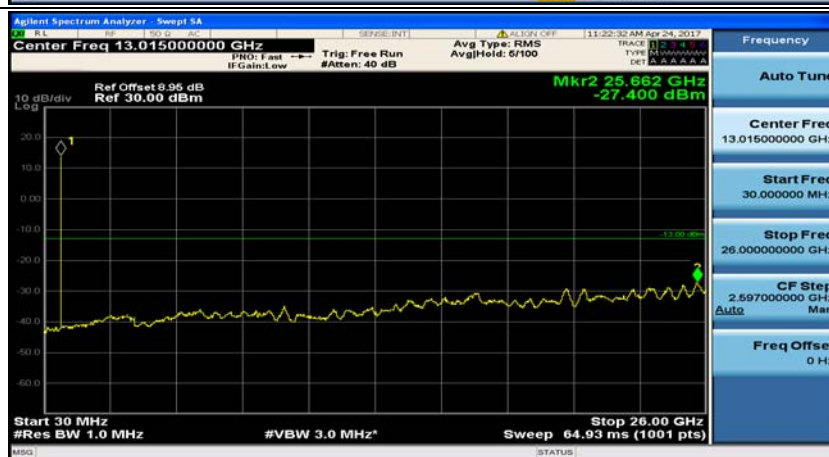
(Channel Bandwidth: 5 MHz)\_MCH\_QPSK\_1RB#12



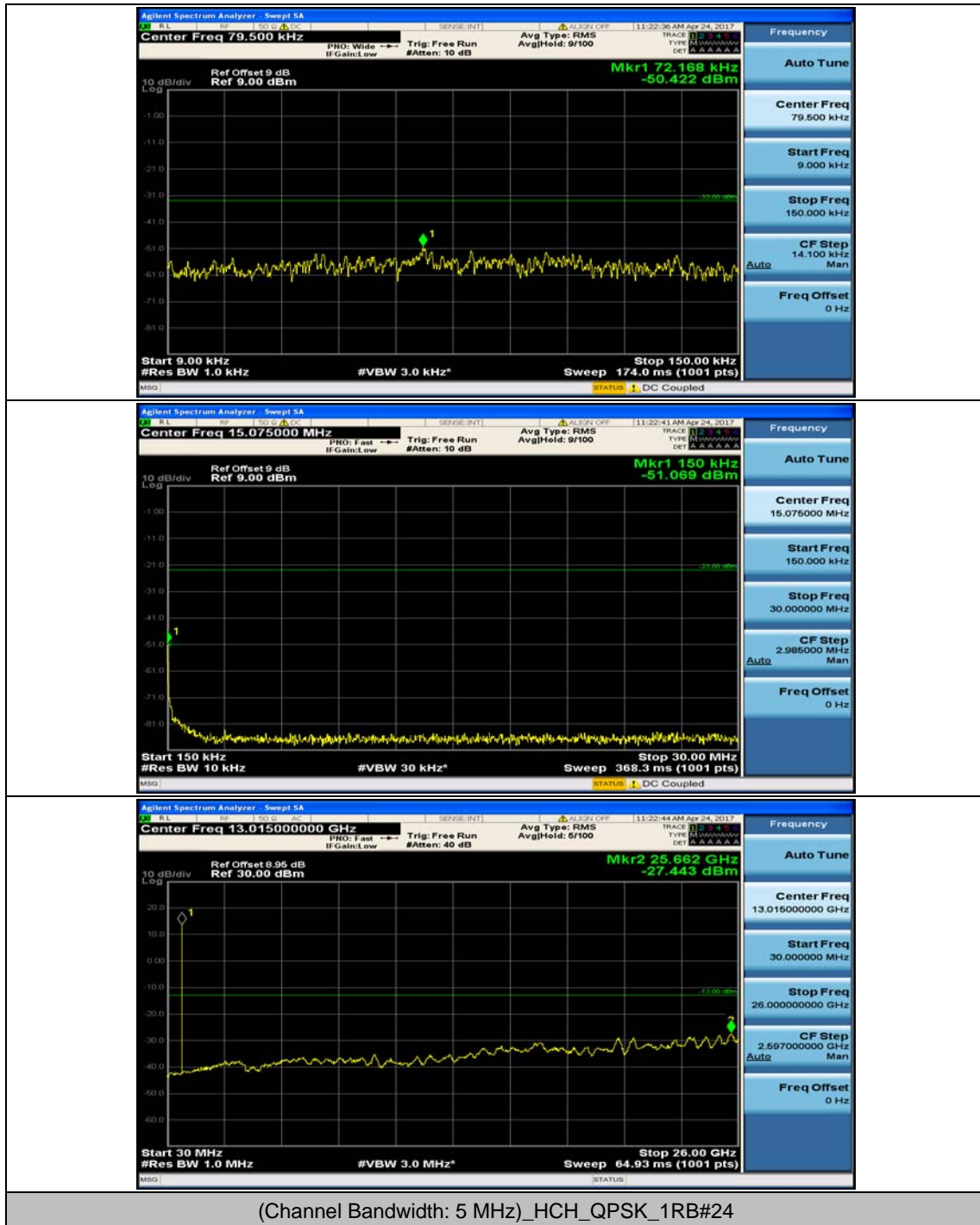


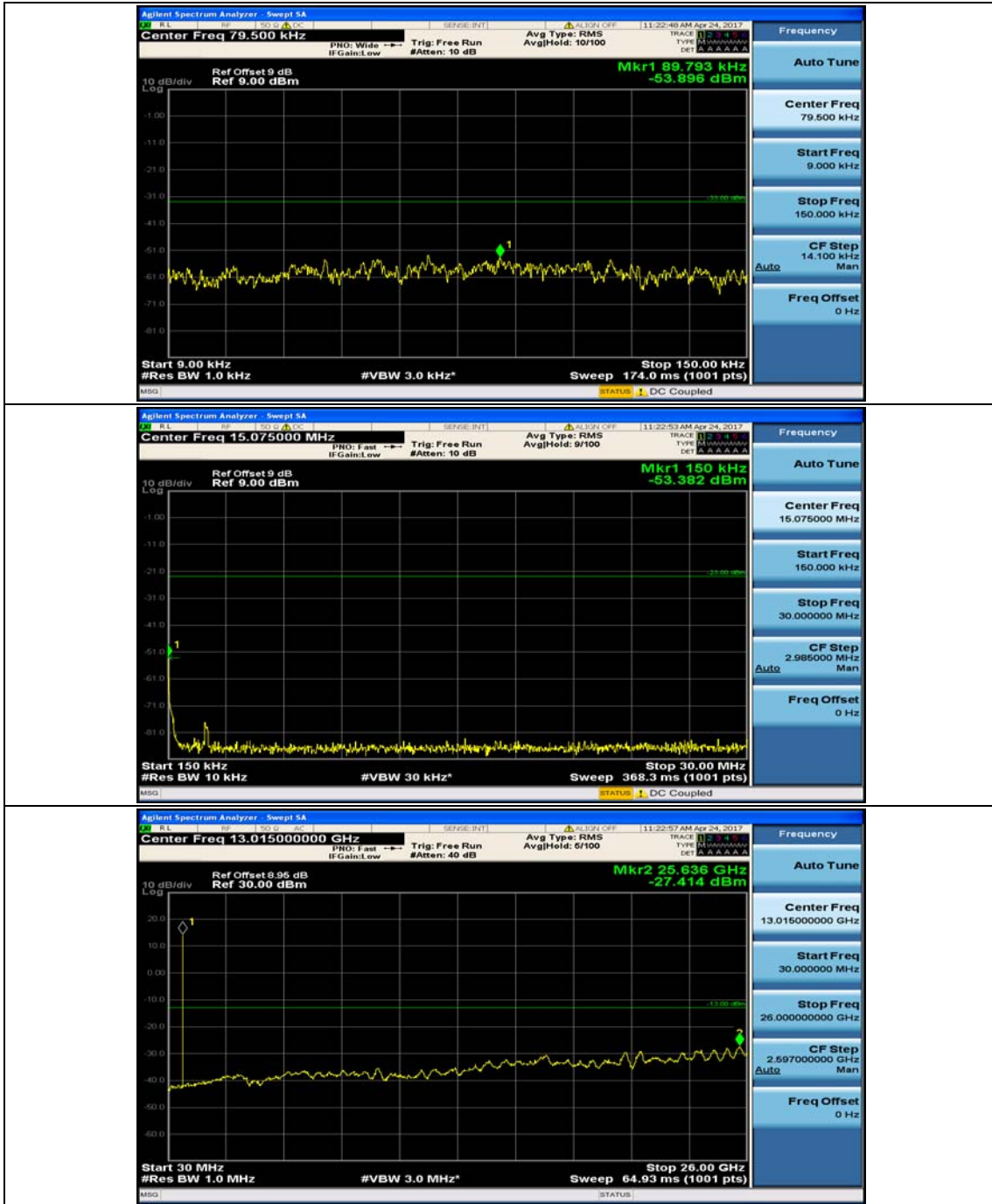


(Channel Bandwidth: 5 MHz)\_HCH\_QPSK\_1RB#0

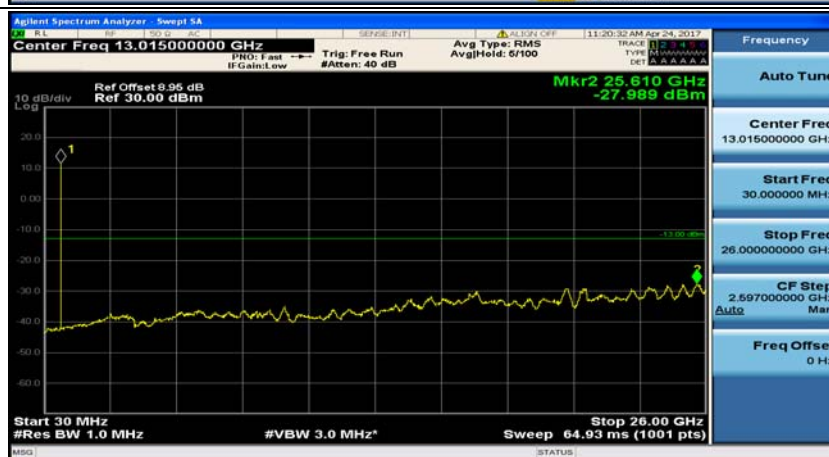
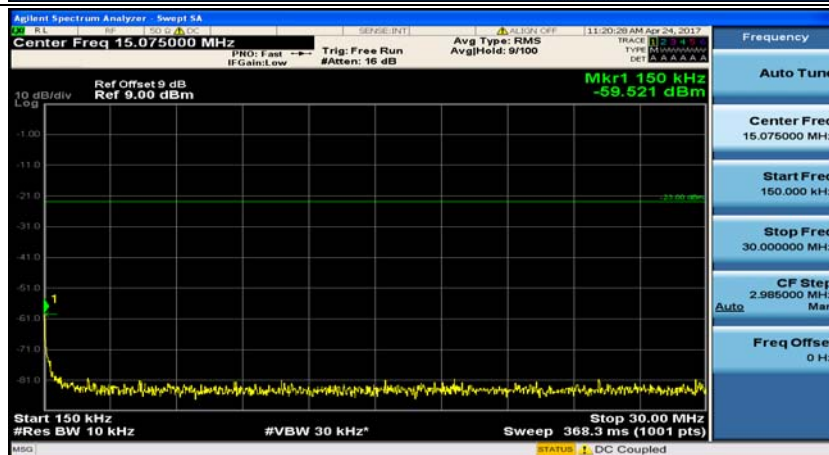
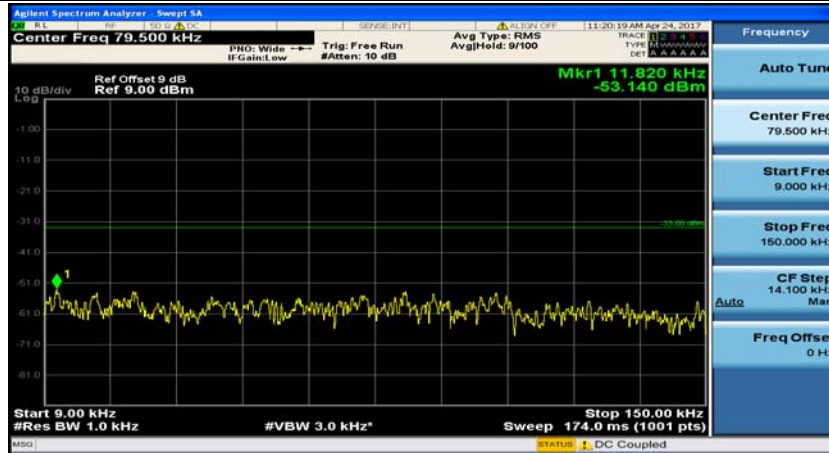


(Channel Bandwidth: 5 MHz)\_HCH\_QPSK\_1RB#12



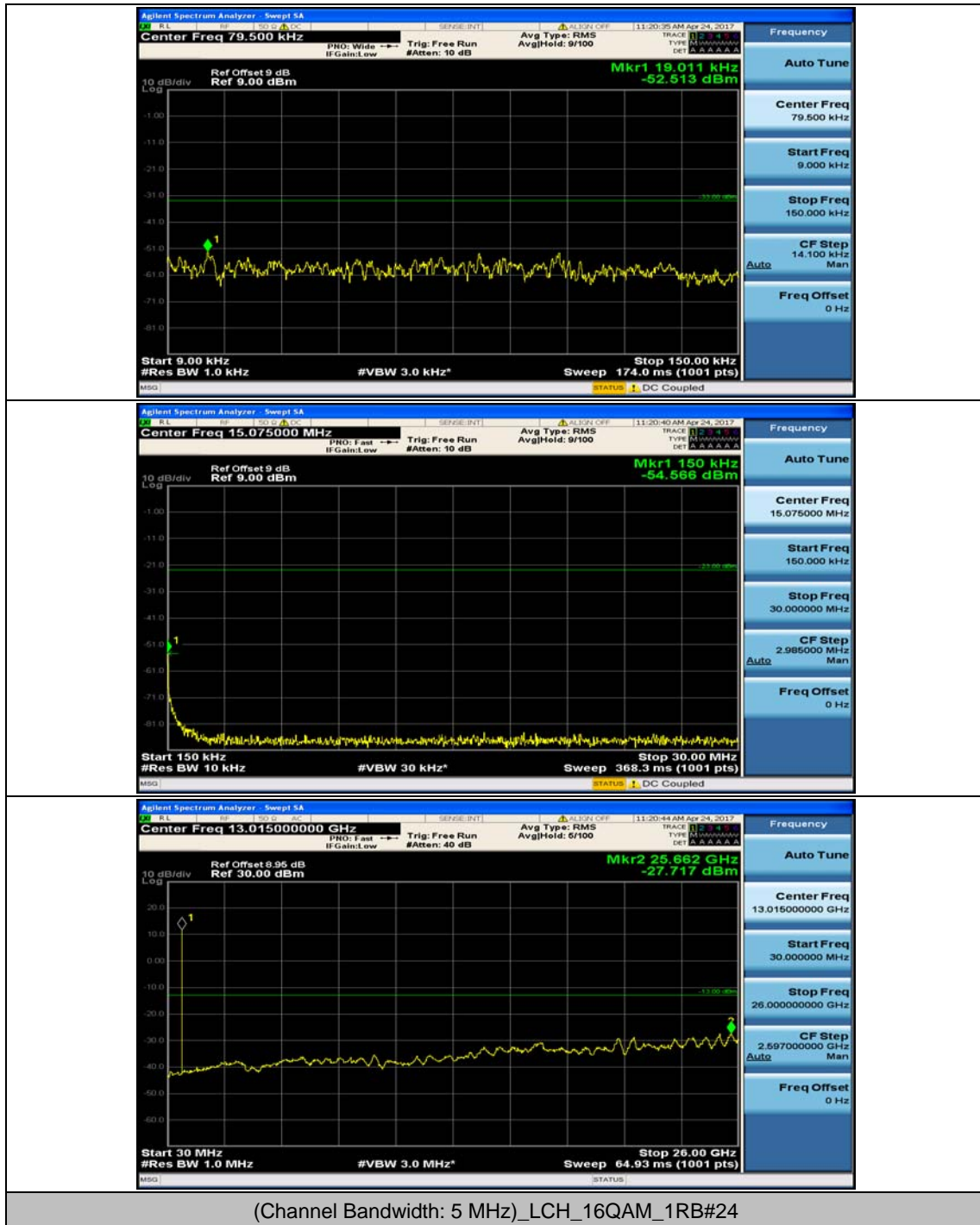


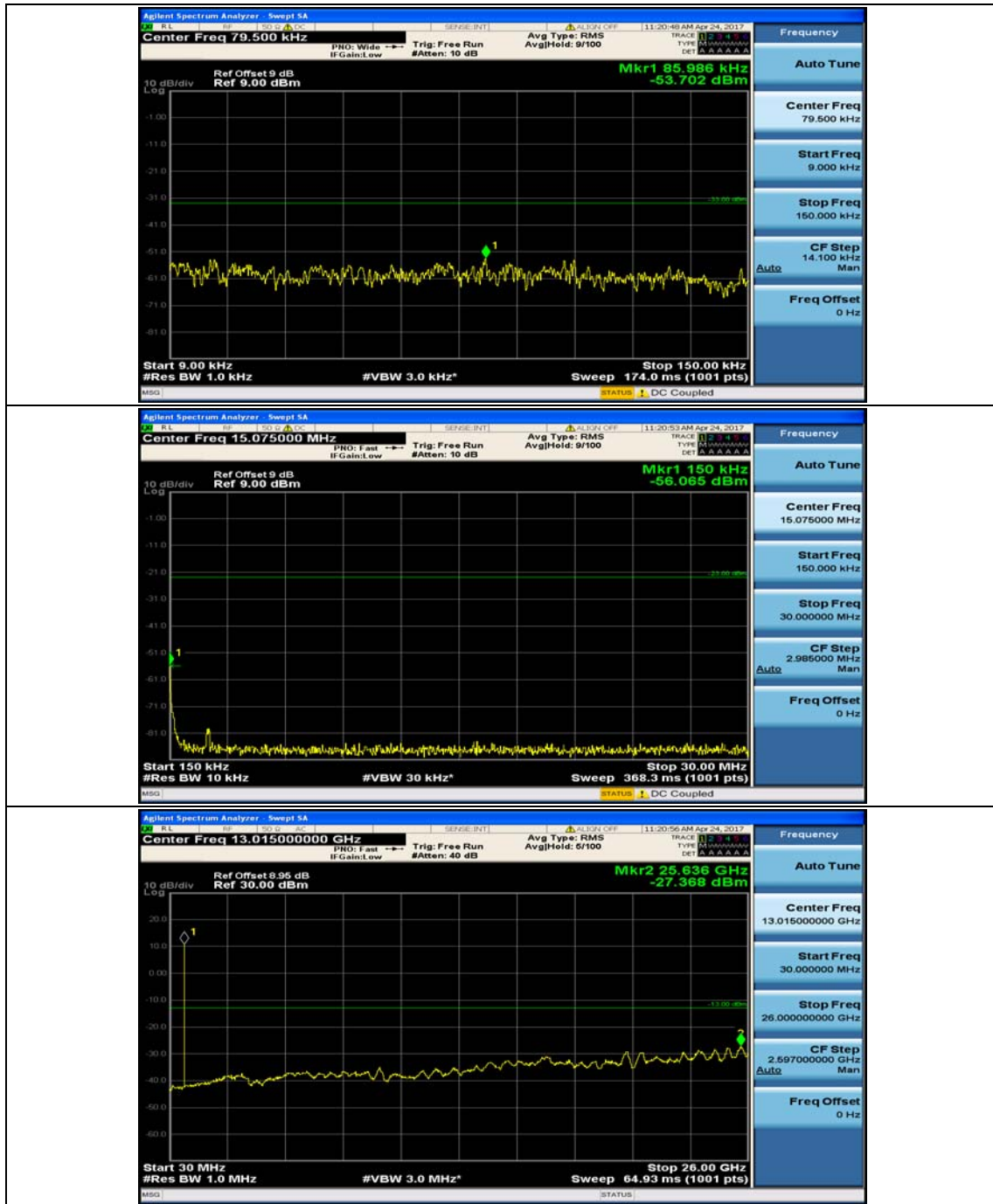
(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_1RB#0



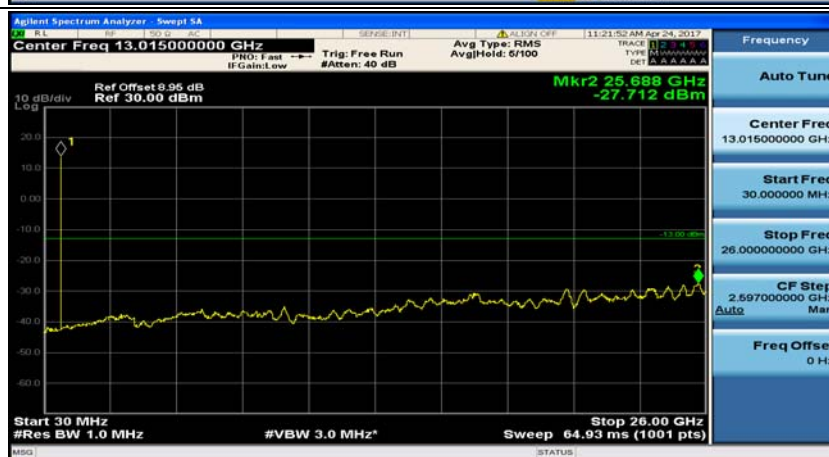
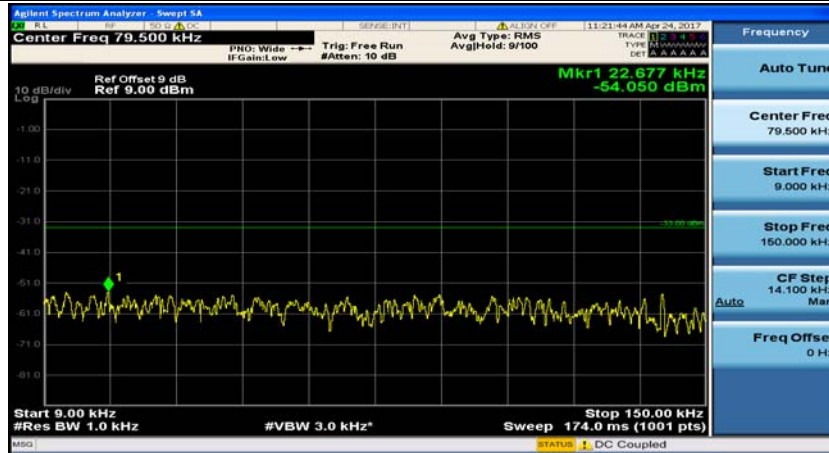
(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_1RB#12



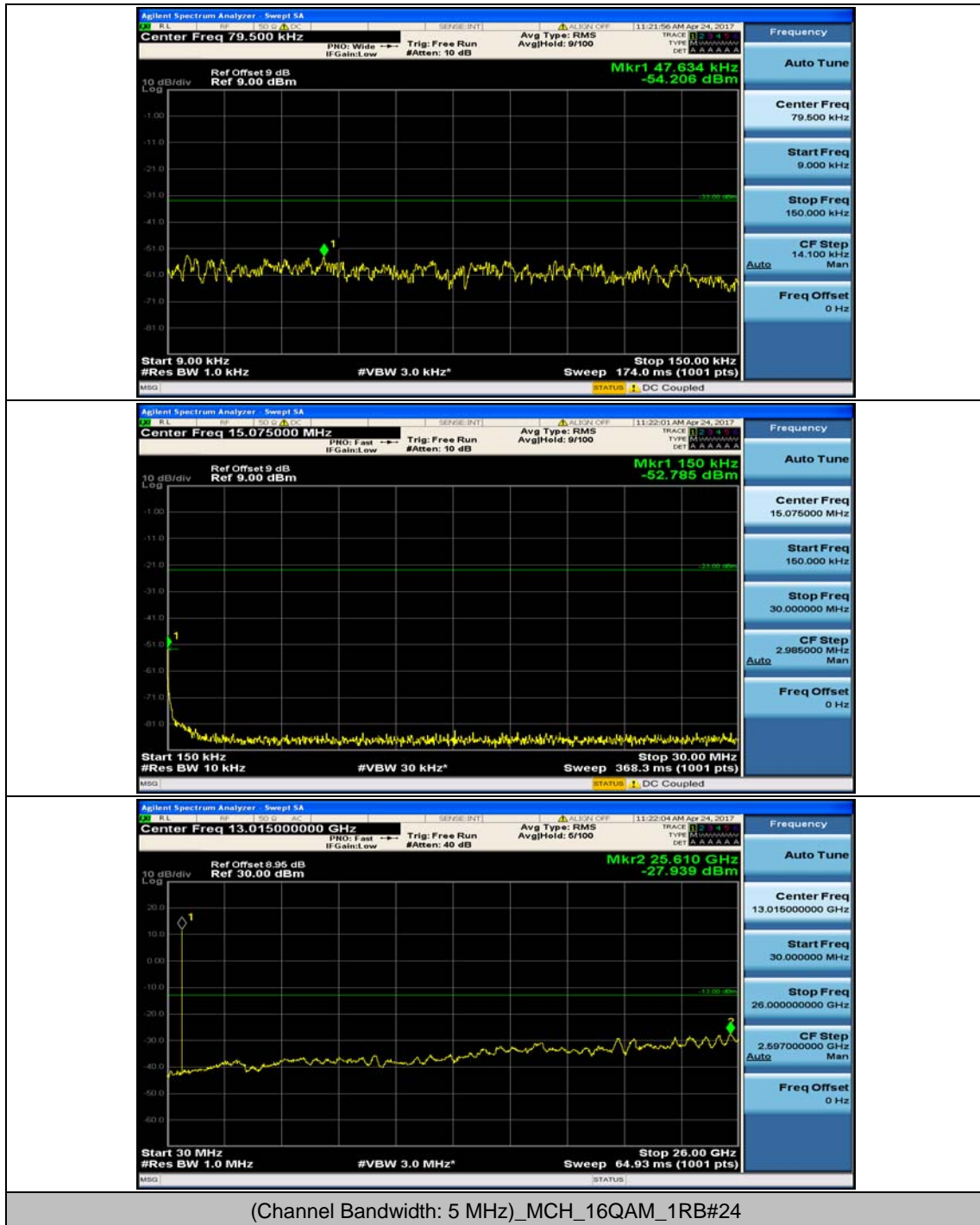


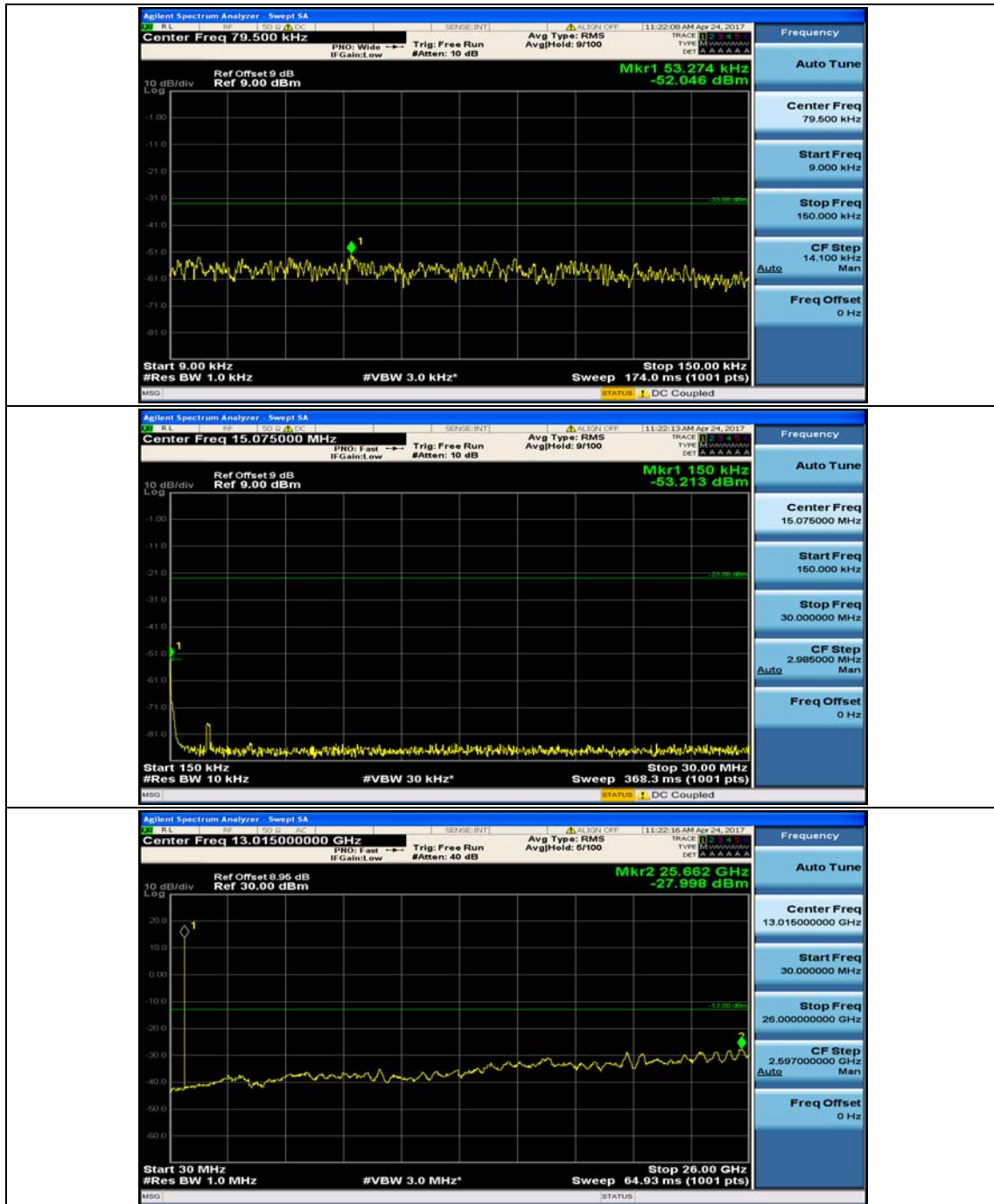


(Channel Bandwidth: 5 MHz)\_MCH\_16QAM\_1RB#0



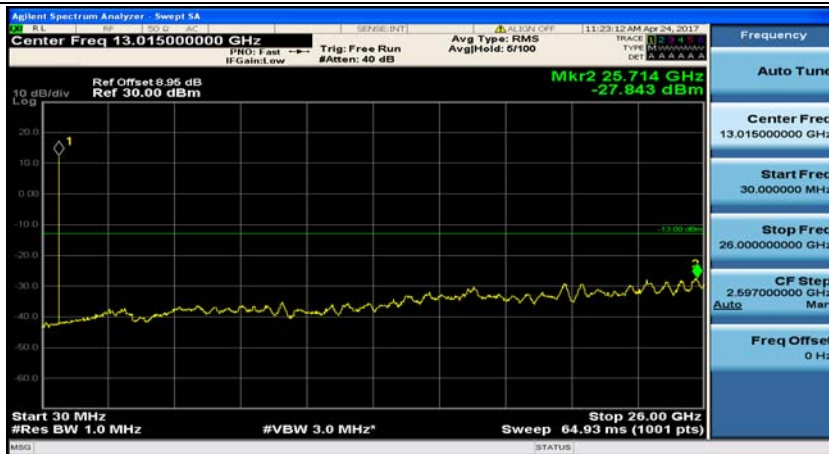
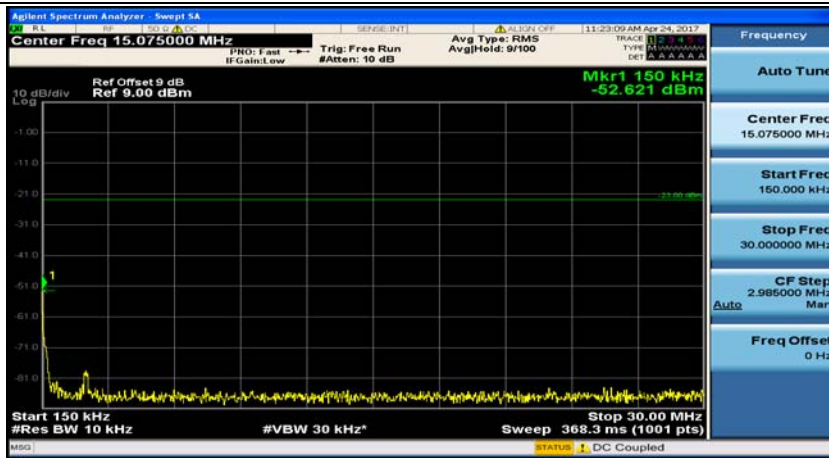
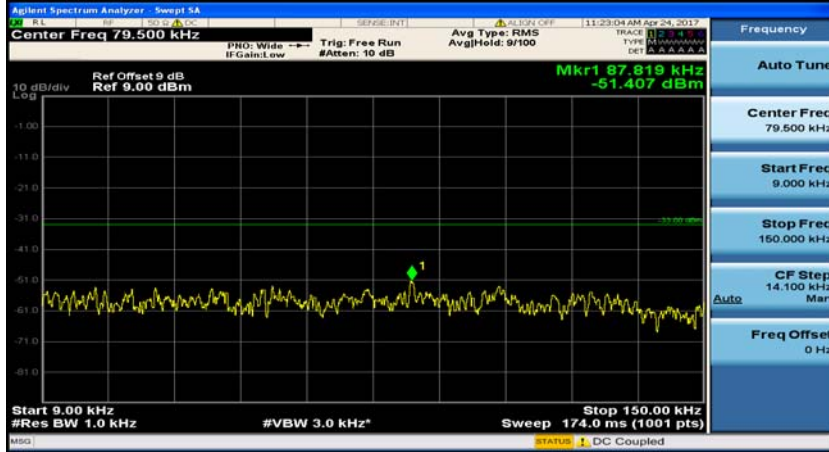
(Channel Bandwidth: 5 MHz)\_MCH\_16QAM\_1RB#12



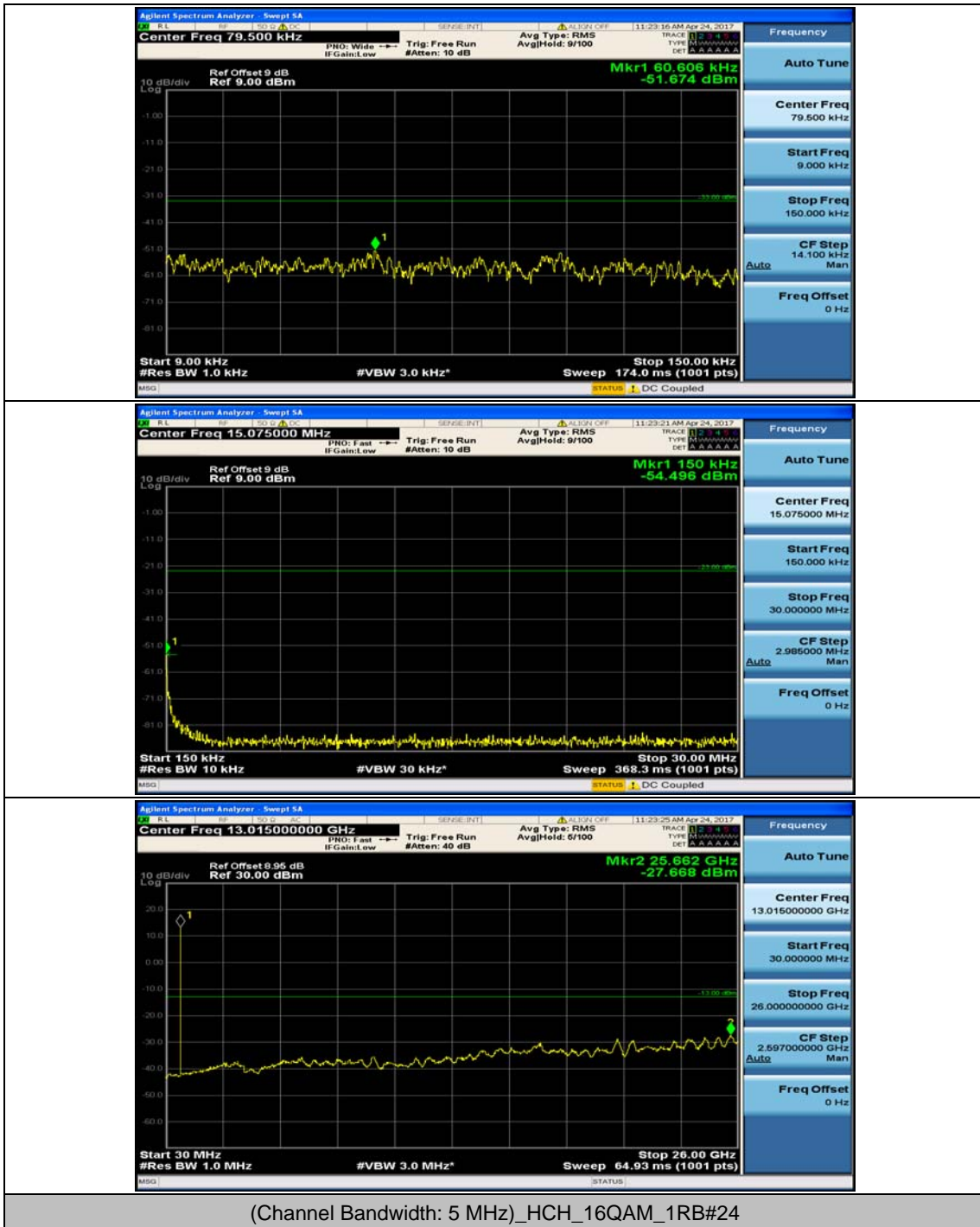


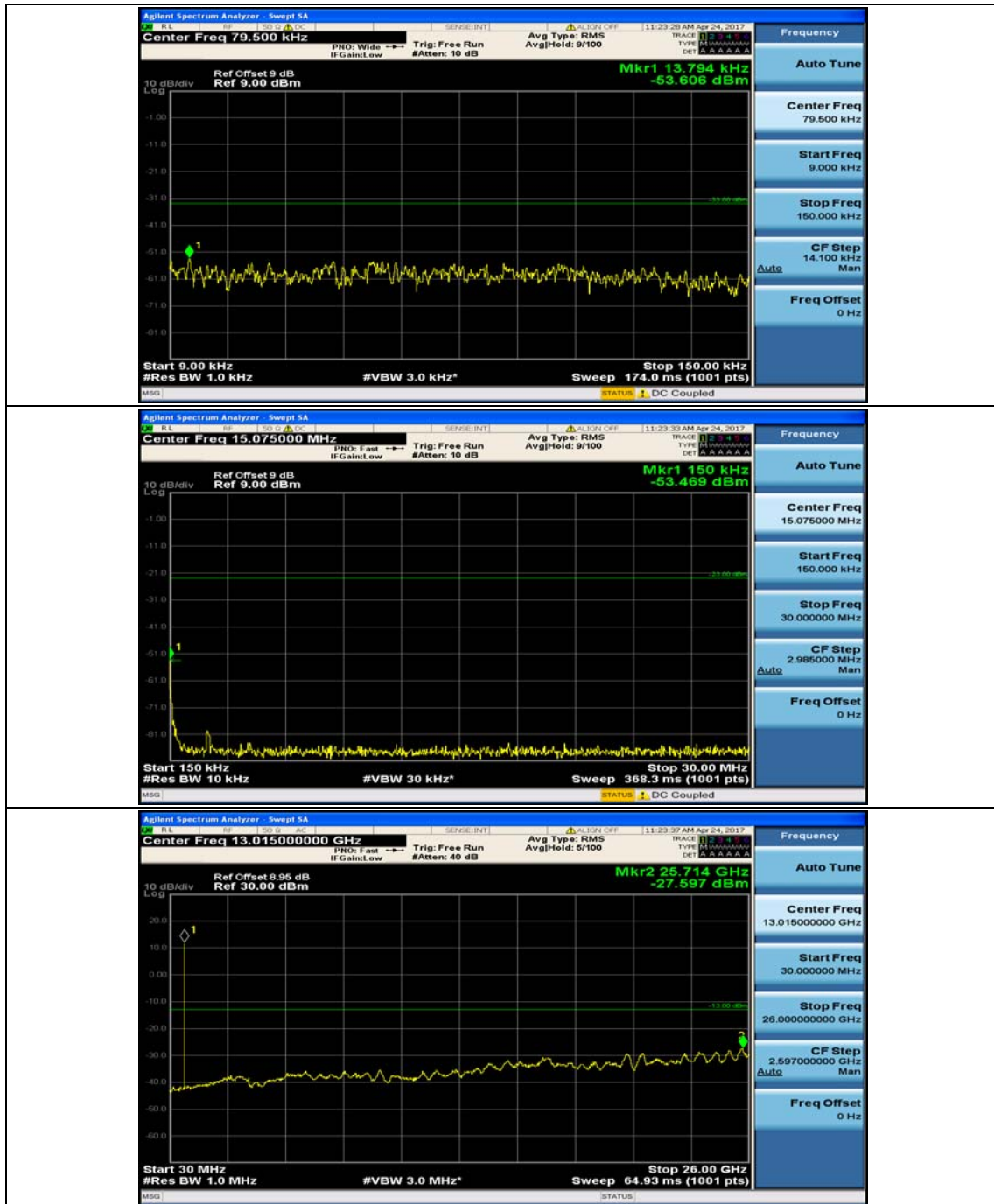


(Channel Bandwidth: 5 MHz)\_HCH\_16QAM\_1RB#0

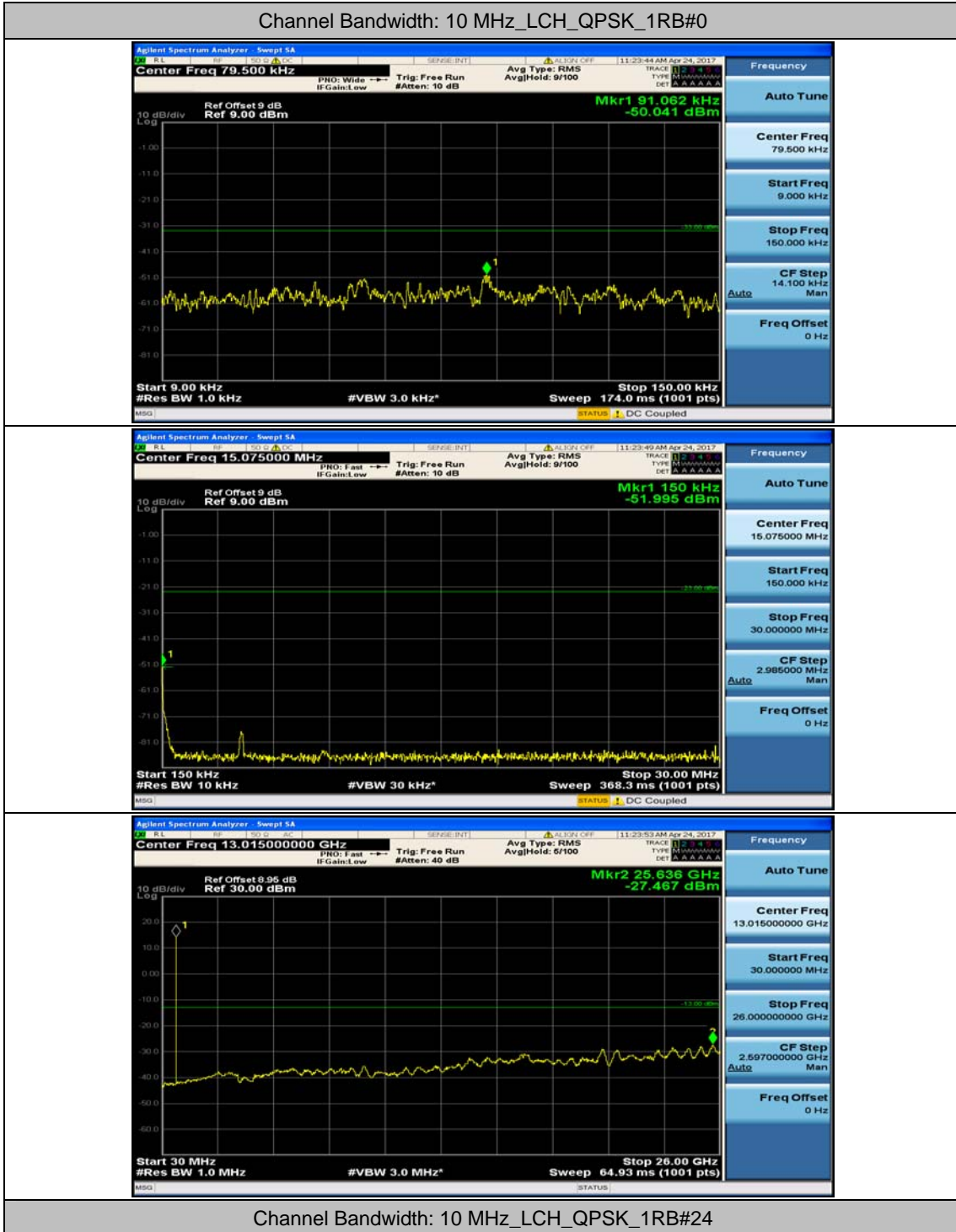


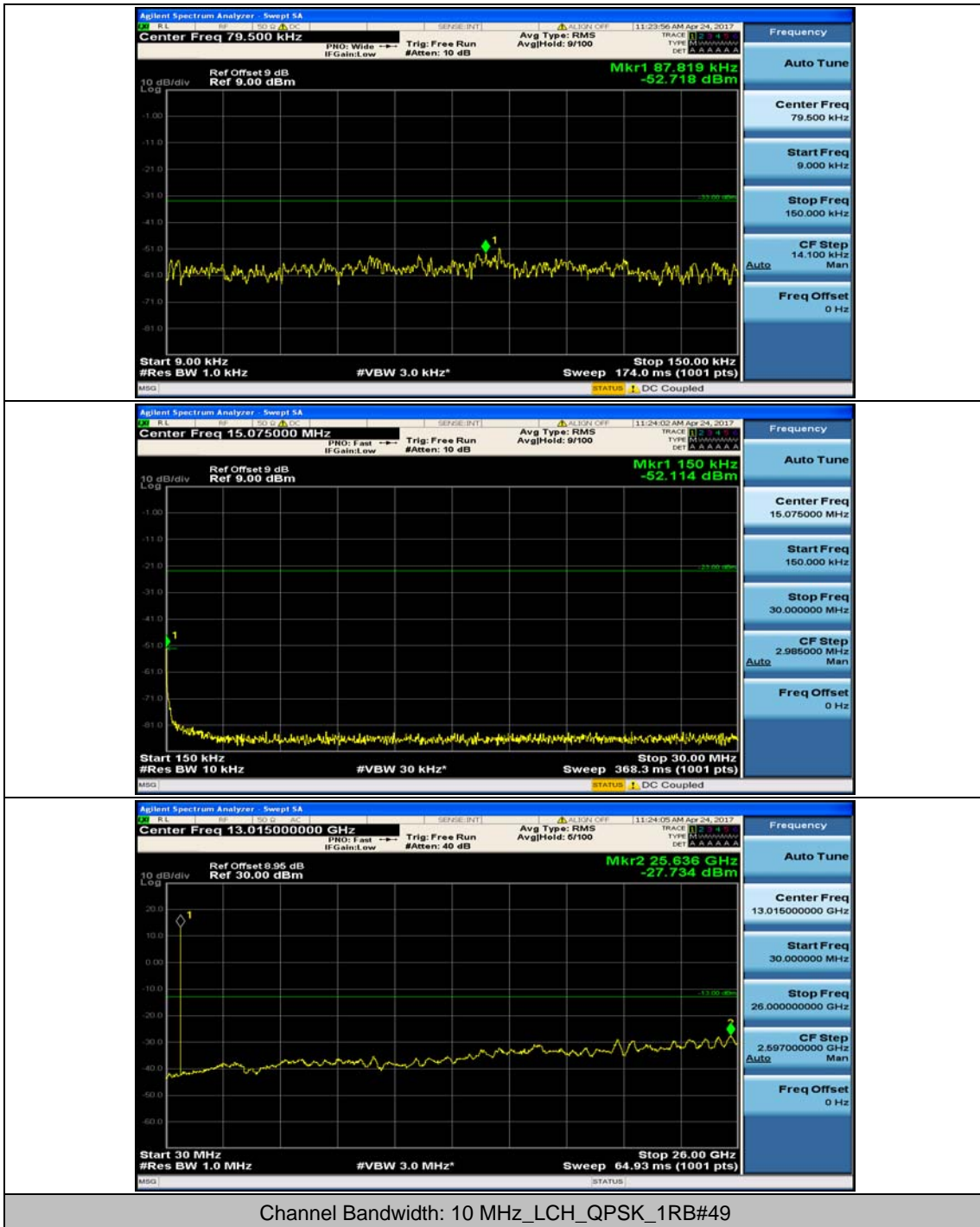
(Channel Bandwidth: 5 MHz)\_HCH\_16QAM\_1RB#12



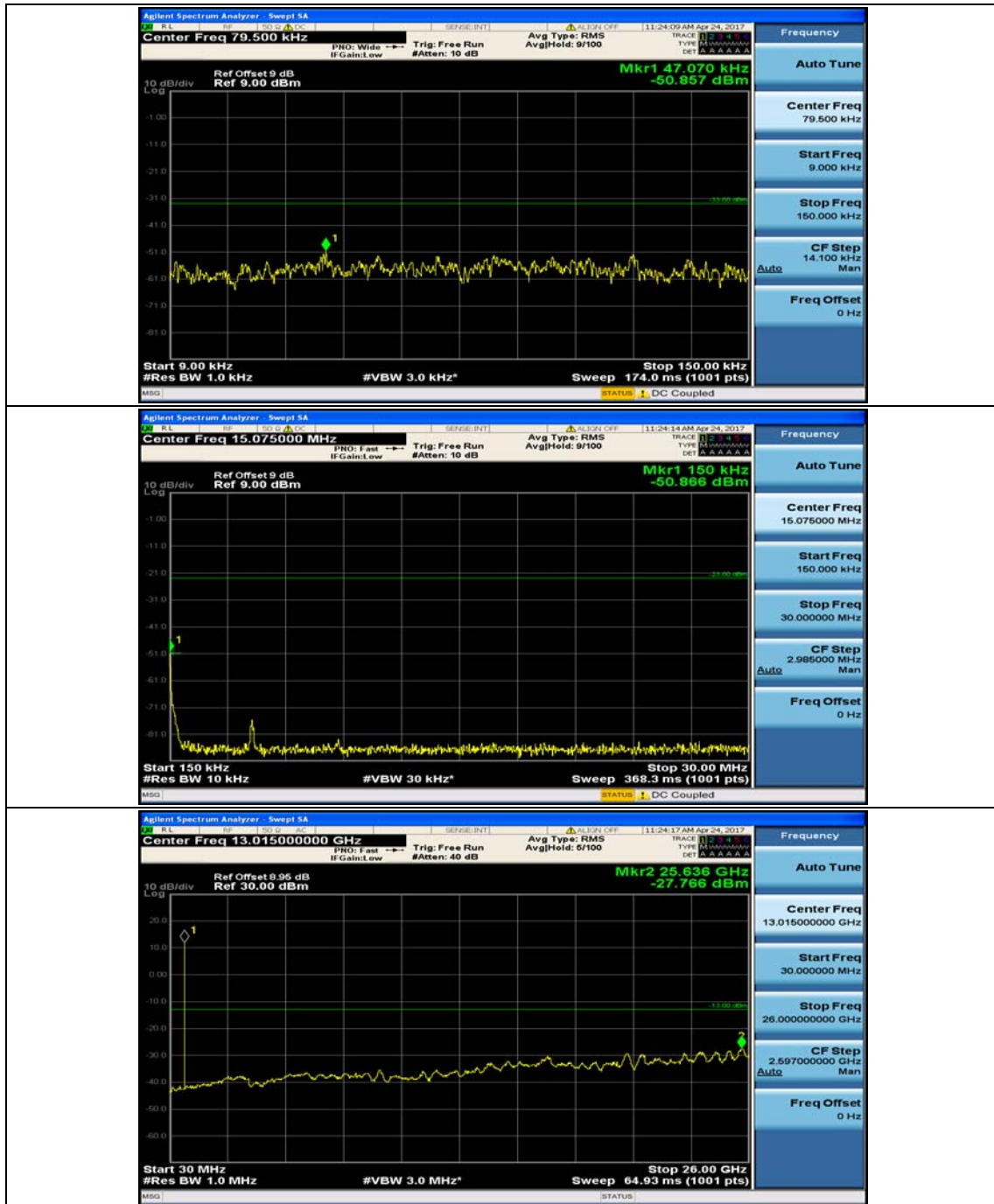


### Channel Bandwidth: 10 MHz

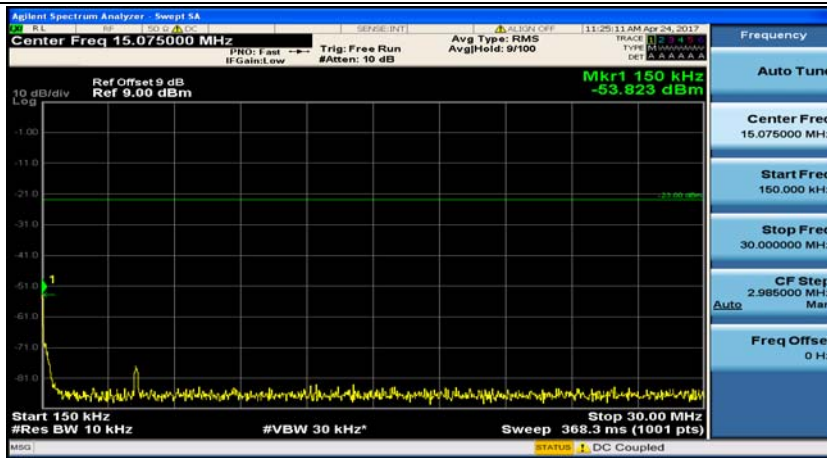
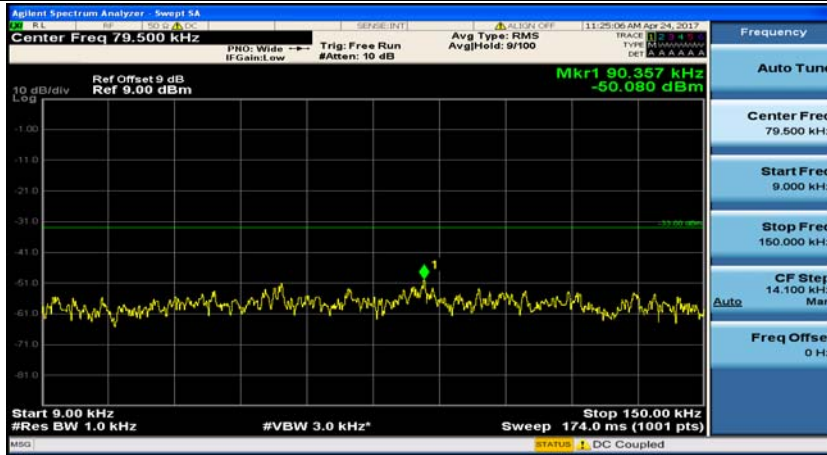




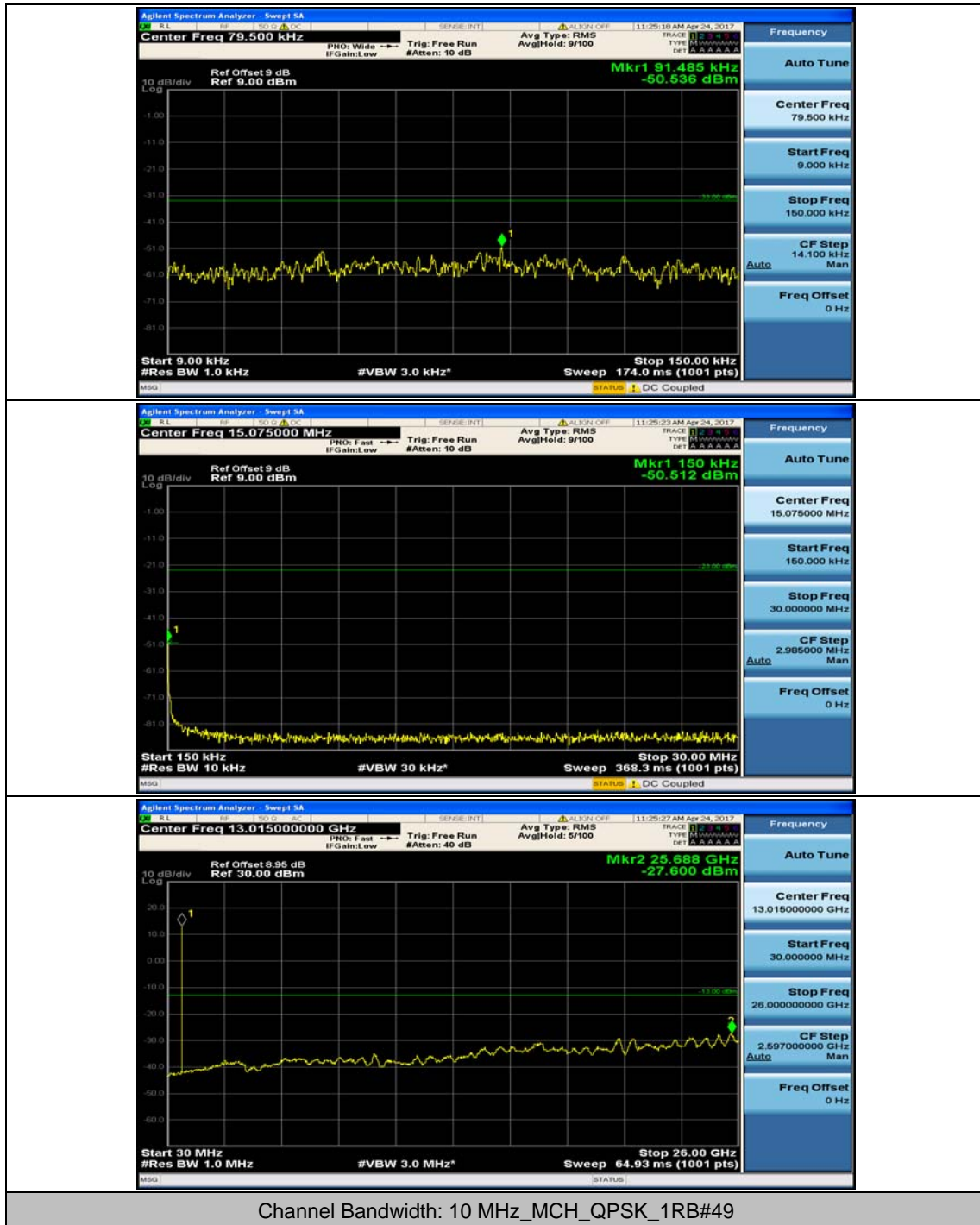


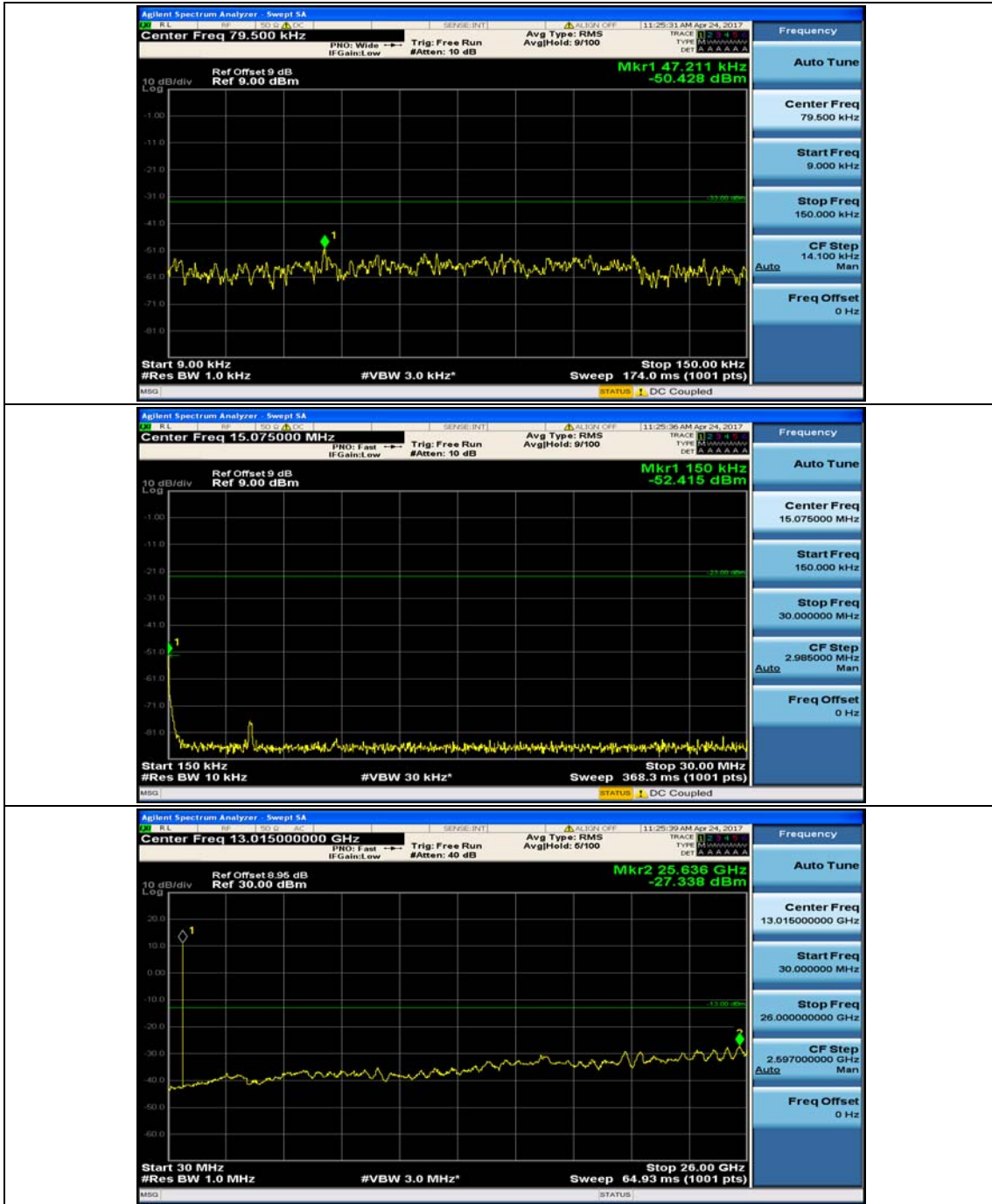


Channel Bandwidth: 10 MHz\_MCH\_QPSK\_1RB#0

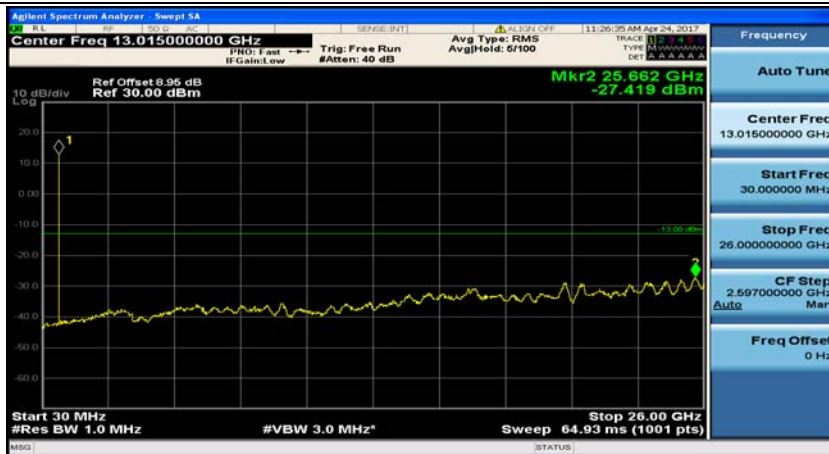
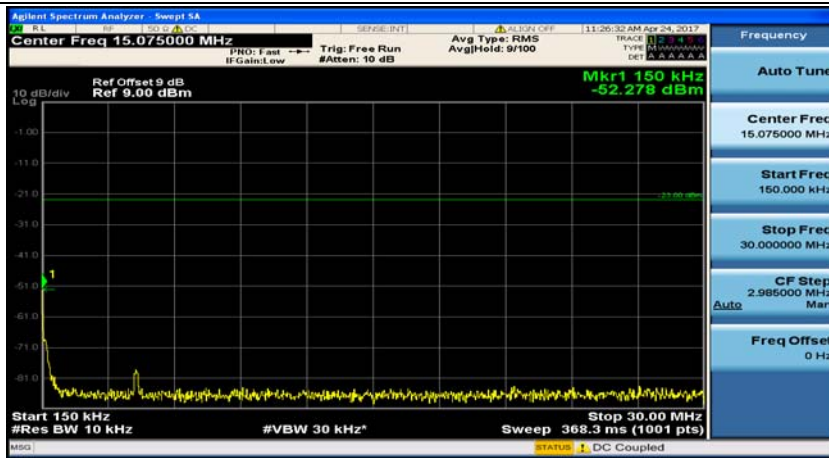
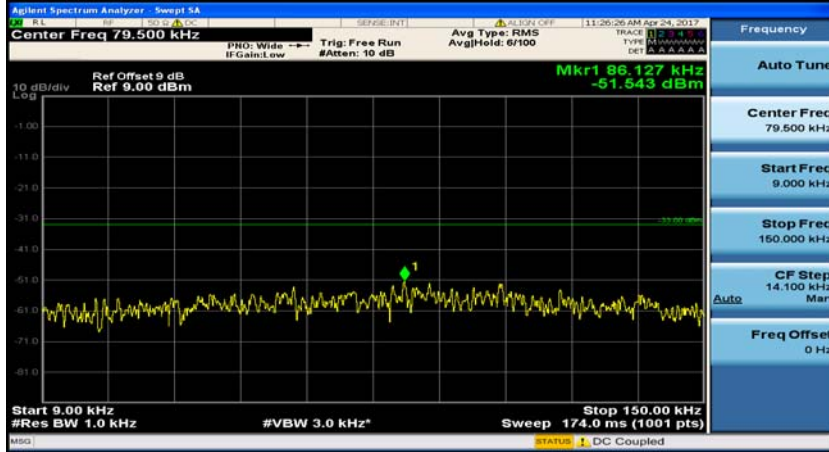


Channel Bandwidth: 10 MHz\_MCH\_QPSK\_1RB#24



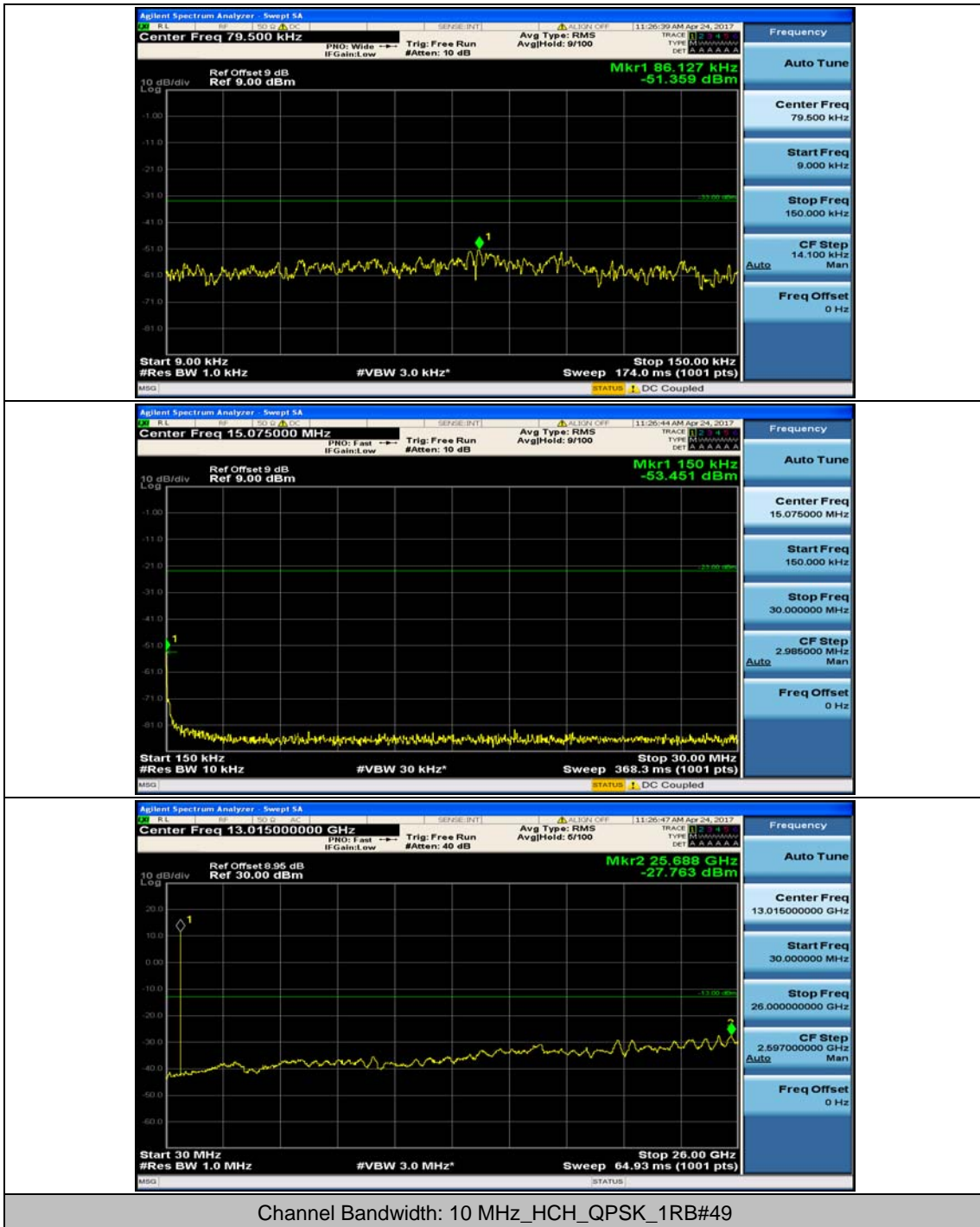


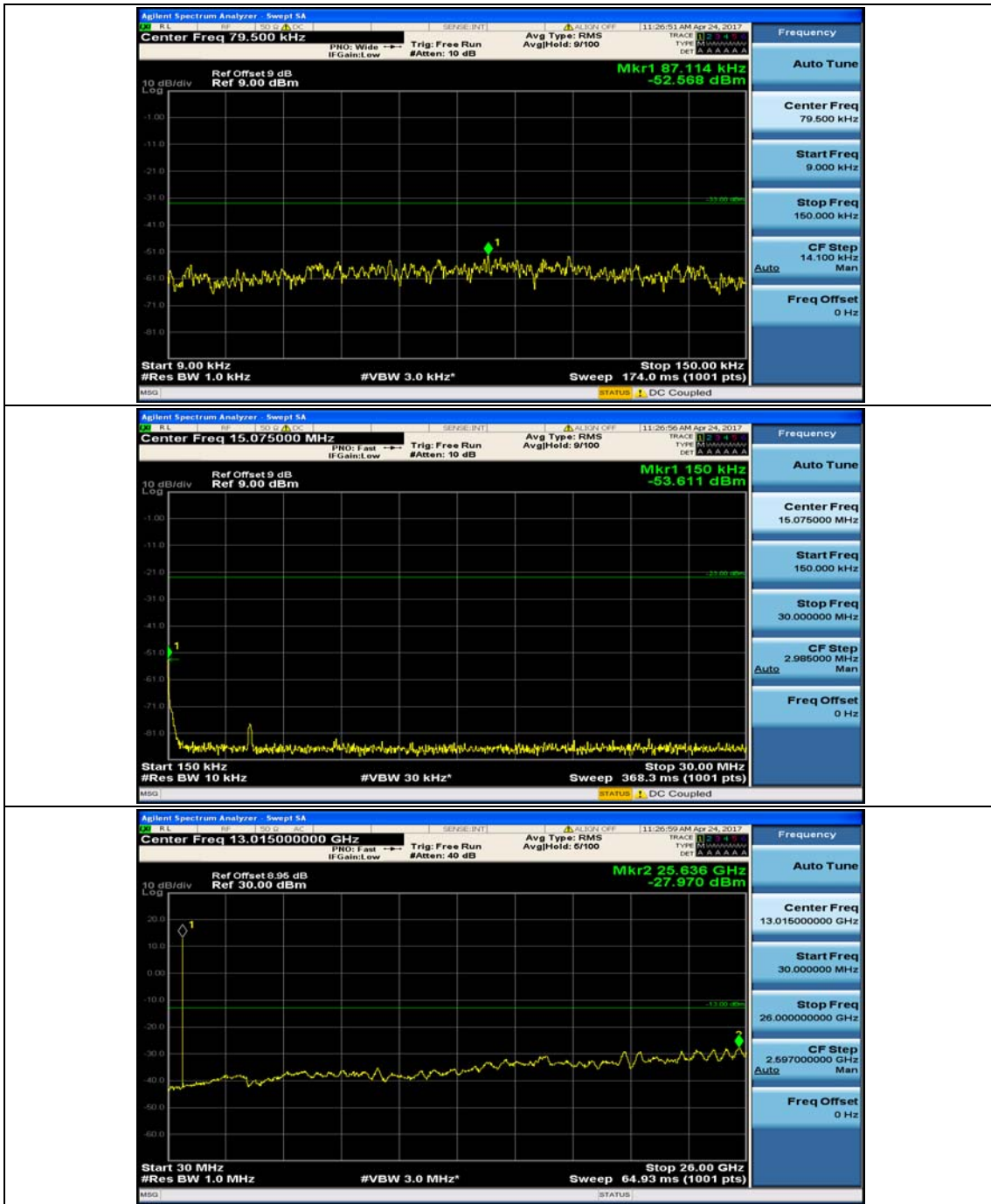
Channel Bandwidth: 10 MHz\_HCH\_QPSK\_1RB#0



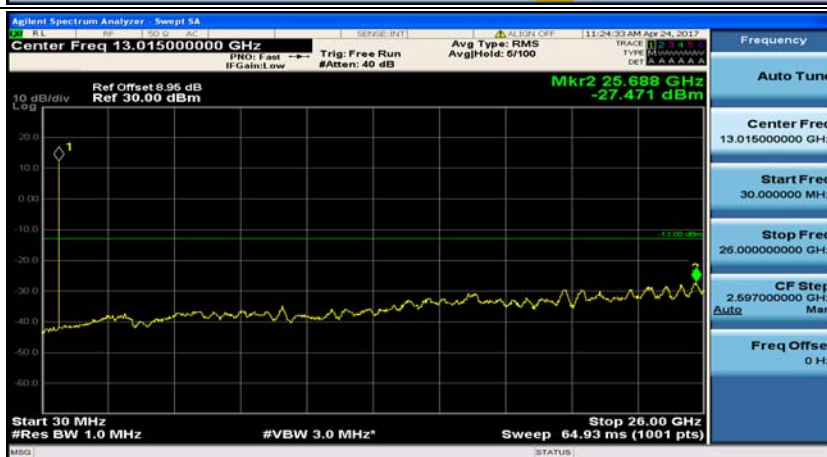
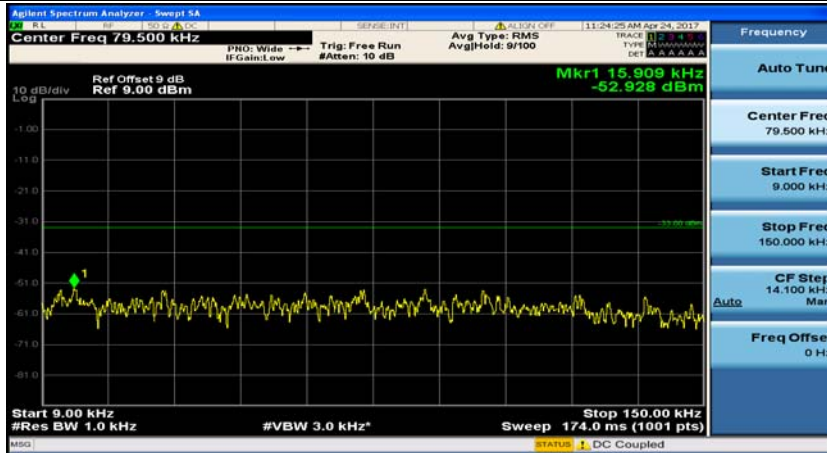
Channel Bandwidth: 10 MHz\_HCH\_QPSK\_1RB#24



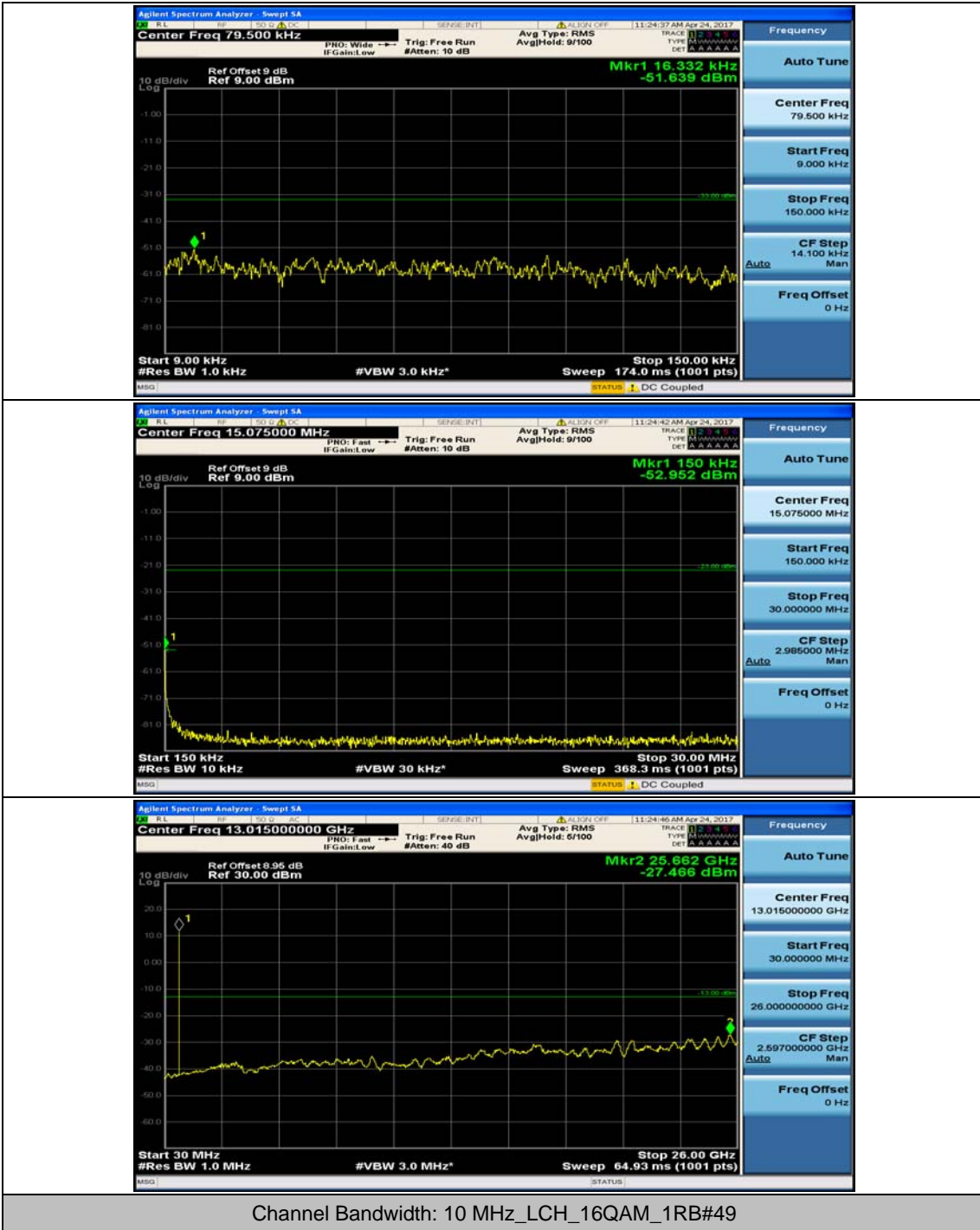


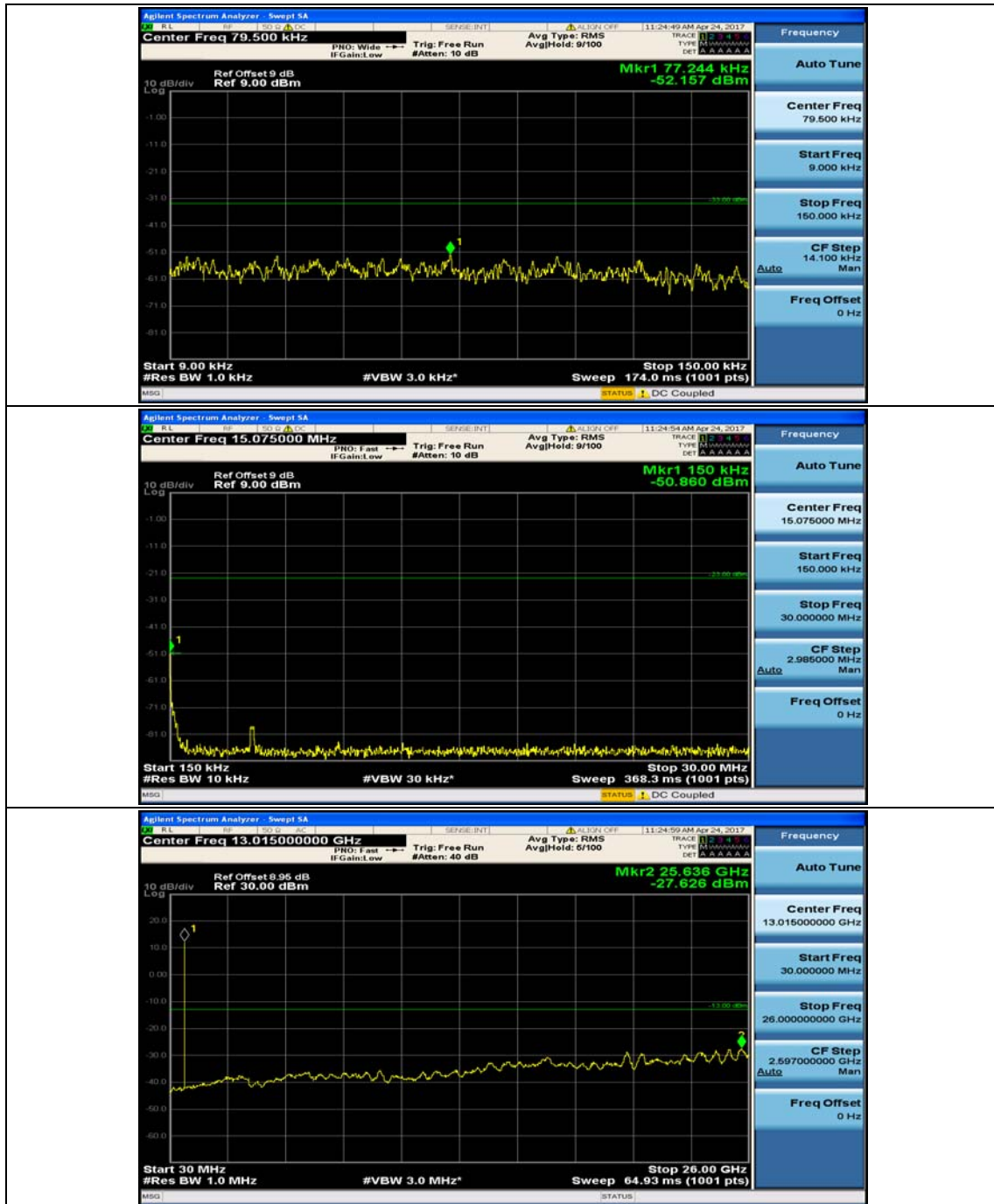


Channel Bandwidth: 10 MHz\_LCH\_16QAM\_1RB#0



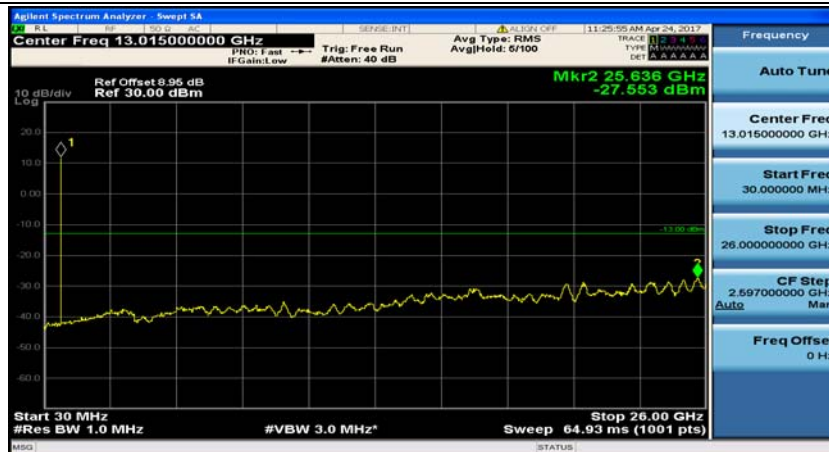
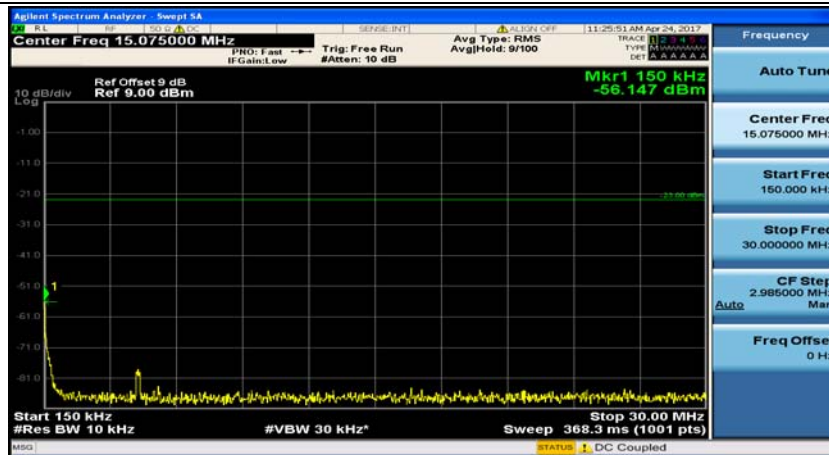
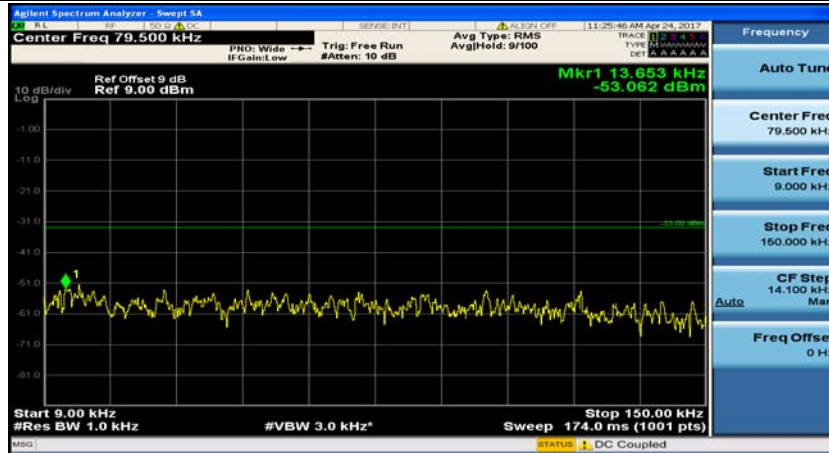
Channel Bandwidth: 10 MHz\_LCH\_16QAM\_1RB#24



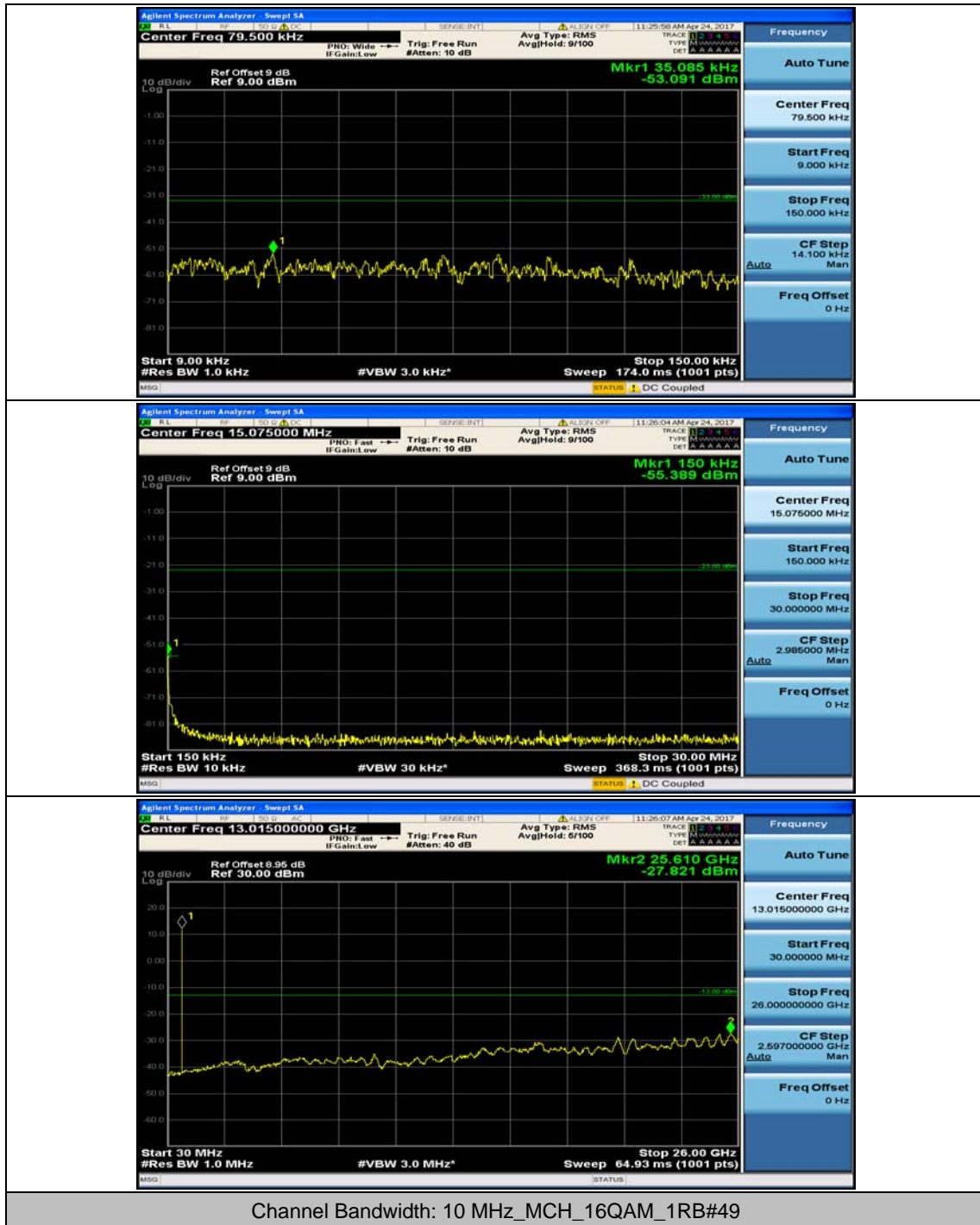


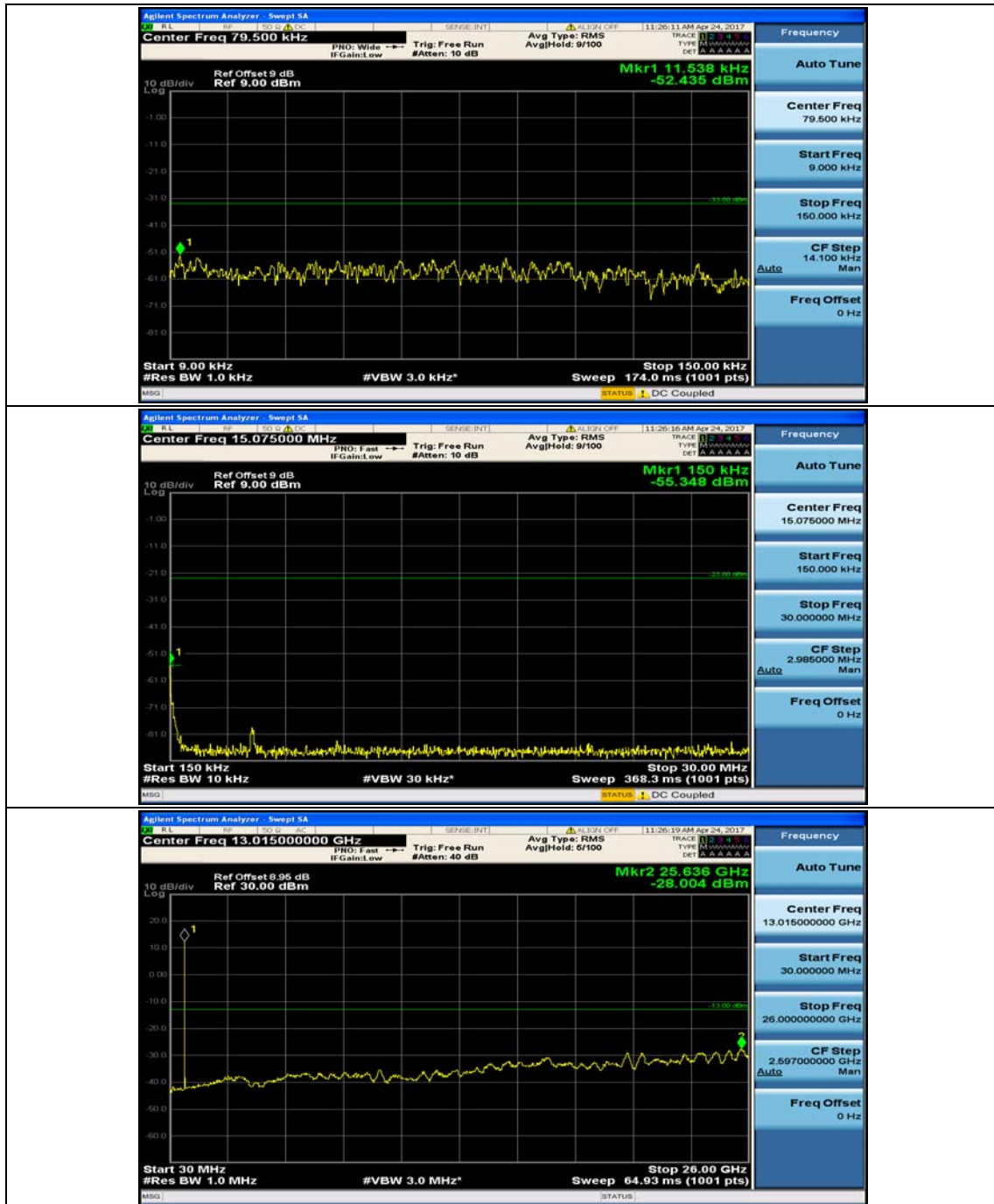


Channel Bandwidth: 10 MHz\_MCH\_16QAM\_1RB#0

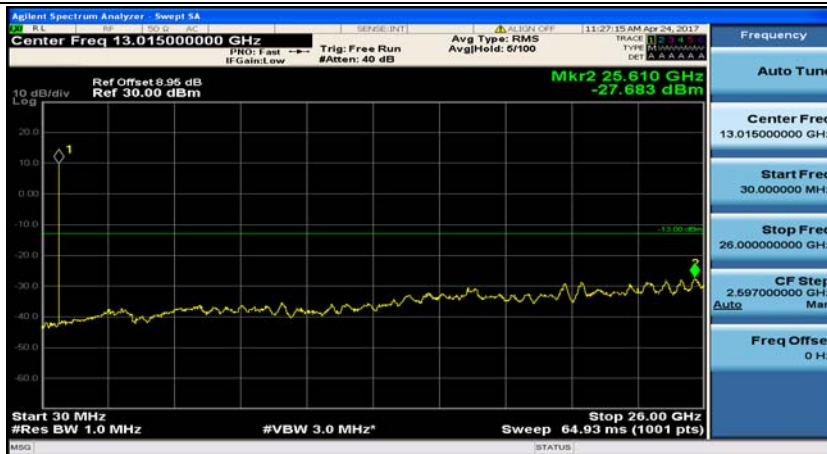
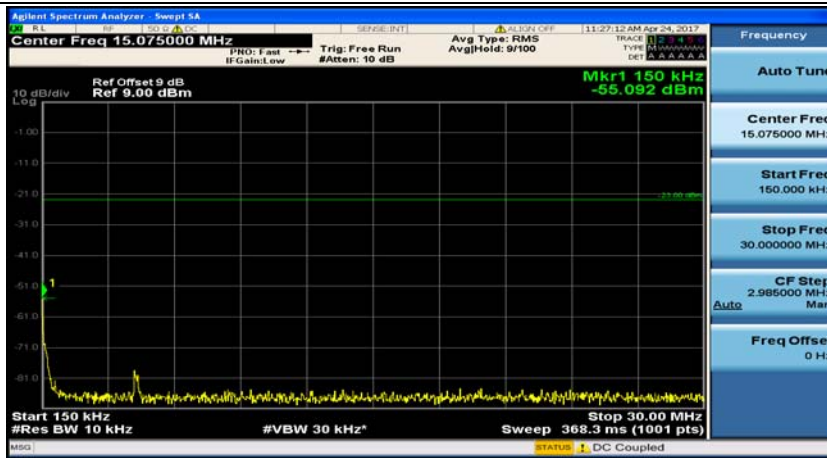
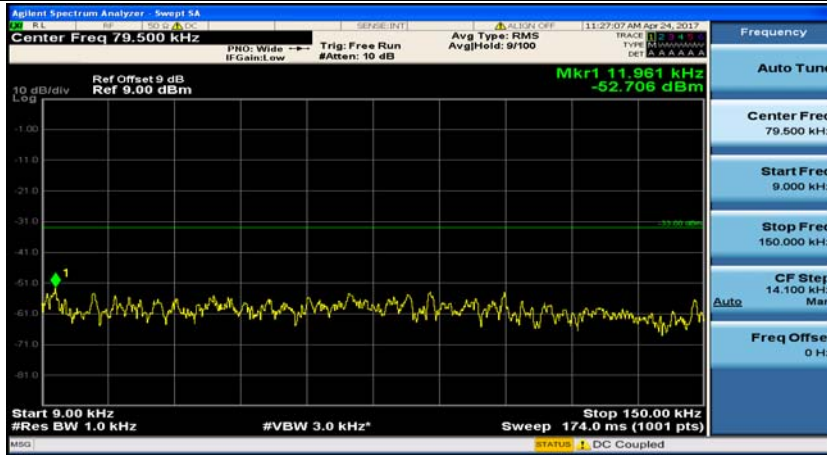


Channel Bandwidth: 10 MHz\_MCH\_16QAM\_1RB#24

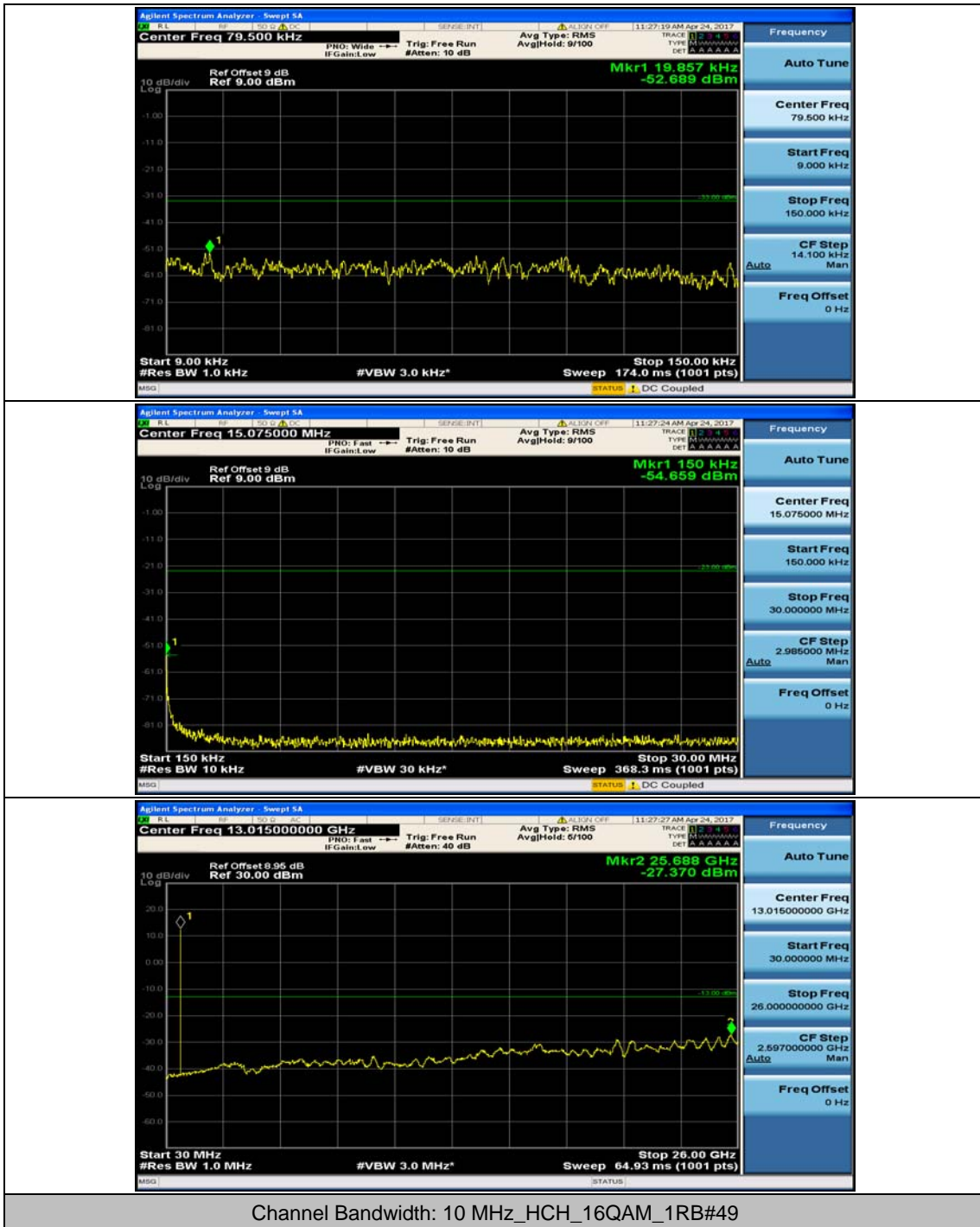




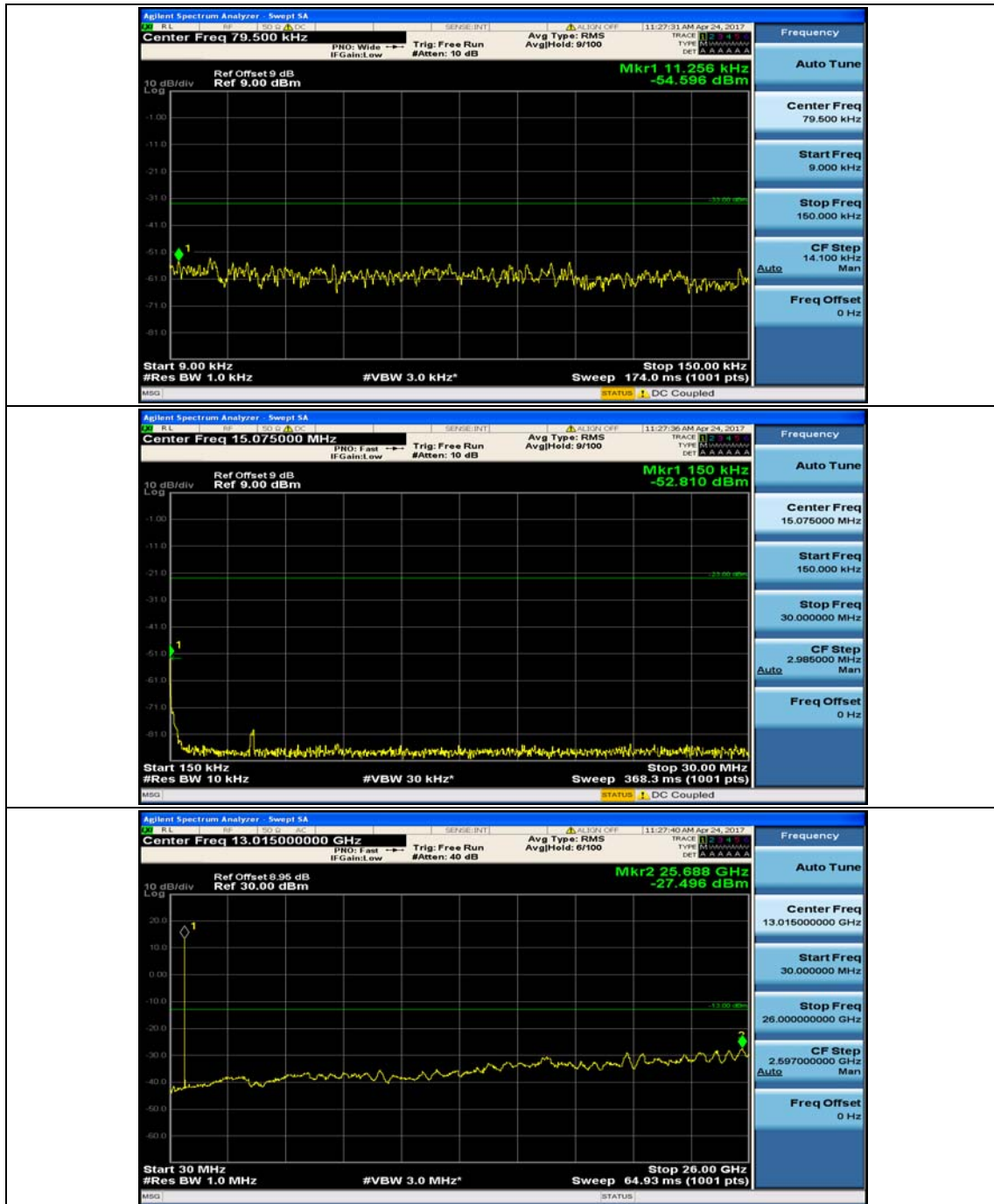
Channel Bandwidth: 10 MHz\_HCH\_16QAM\_1RB#0



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	-0.44	-0.000623	± 2.5	PASS
		VN	TN	3.44	0.004869	± 2.5	PASS
		VH	TN	1.14	0.001614	± 2.5	PASS
	MCH	VL	TN	-1.56	-0.002197	± 2.5	PASS
		VN	TN	1.98	0.002789	± 2.5	PASS
		VH	TN	4.51	0.006352	± 2.5	PASS
	HCH	VL	TN	0.51	0.000715	± 2.5	PASS
		VN	TN	4.71	0.006601	± 2.5	PASS
		VH	TN	-0.49	-0.000687	± 2.5	PASS
16QAM	LCH	VL	TN	2.45	0.003468	± 2.5	PASS
		VN	TN	-0.56	-0.000793	± 2.5	PASS
		VH	TN	-1.33	-0.001883	± 2.5	PASS
	MCH	VL	TN	4.44	0.006254	± 2.5	PASS
		VN	TN	-1.43	-0.002014	± 2.5	PASS
		VH	TN	-1.47	-0.002070	± 2.5	PASS
	HCH	VL	TN	0.26	0.000364	± 2.5	PASS
		VN	TN	4.79	0.006713	± 2.5	PASS
		VH	TN	2.29	0.003210	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	2.18	0.003086	± 2.5	PASS
		VN	-20	-0.25	-0.000354	± 2.5	PASS
		VN	-10	2.04	0.002887	± 2.5	PASS
		VN	0	-1.51	-0.002137	± 2.5	PASS
		VN	10	1.45	0.002052	± 2.5	PASS
		VN	20	1.18	0.001670	± 2.5	PASS
		VN	30	1.68	0.002378	± 2.5	PASS
		VN	40	0.9	0.001274	± 2.5	PASS
		VN	50	0.46	0.000651	± 2.5	PASS
	MCH	VN	-30	0.04	0.000056	± 2.5	PASS

		VN	-20	2.97	0.004183	± 2.5	PASS
		VN	-10	2.92	0.004113	± 2.5	PASS
		VN	0	4.88	0.006873	± 2.5	PASS
		VN	10	2.93	0.004127	± 2.5	PASS
		VN	20	-0.23	-0.000324	± 2.5	PASS
		VN	30	3.42	0.004817	± 2.5	PASS
		VN	40	0.27	0.000380	± 2.5	PASS
		VN	50	2.77	0.003901	± 2.5	PASS
	HCH	VN	-30	4.35	0.006097	± 2.5	PASS
		VN	-20	2.55	0.003574	± 2.5	PASS
		VN	-10	-0.11	-0.000154	± 2.5	PASS
		VN	0	1.79	0.002509	± 2.5	PASS
		VN	10	-1.82	-0.002551	± 2.5	PASS
		VN	20	2.42	0.003392	± 2.5	PASS
		VN	30	3.2	0.004485	± 2.5	PASS
		VN	40	1.23	0.001724	± 2.5	PASS
		VN	50	0.85	0.001191	± 2.5	PASS
		16QAM	LCH	VN	-30	3.24	0.004586
VN	-20			0.33	0.000467	± 2.5	PASS
VN	-10			-1.33	-0.001883	± 2.5	PASS
VN	0			2.63	0.003723	± 2.5	PASS
VN	10			2.62	0.003708	± 2.5	PASS
VN	20			0.38	0.000538	± 2.5	PASS
VN	30			-0.86	-0.001217	± 2.5	PASS
VN	40			2.97	0.004204	± 2.5	PASS
VN	50			1.09	0.001543	± 2.5	PASS
MCH	VN		-30	1.99	0.002789	± 2.5	PASS
	VN		-20	-0.26	-0.000364	± 2.5	PASS
	VN		-10	3.27	0.004583	± 2.5	PASS
	VN		0	-0.19	-0.000266	± 2.5	PASS
	VN		10	1.65	0.002313	± 2.5	PASS
	VN		20	2.06	0.002887	± 2.5	PASS
	VN		30	-1.13	-0.001584	± 2.5	PASS
	VN		40	0.59	0.000827	± 2.5	PASS
	VN		50	2.38	0.003336	± 2.5	PASS
HCH	VN		-30	0.06	0.000084	± 2.5	PASS
	VN		-20	0.18	0.000252	± 2.5	PASS
	VN		-10	3.04	0.004261	± 2.5	PASS
	VN		0	-1.73	-0.002425	± 2.5	PASS
	VN		10	1.1	0.001542	± 2.5	PASS
	VN		20	4.17	0.005844	± 2.5	PASS

		VN	30	1.77	0.002481	± 2.5	PASS
		VN	40	0.44	0.000617	± 2.5	PASS
		VN	50	-0.95	-0.001331	± 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	-0.61	-0.000860	± 2.5	PASS
		VN	TN	1.1	0.001551	± 2.5	PASS
		VH	TN	4.96	0.006996	± 2.5	PASS
	MCH	VL	TN	-1.8	-0.002535	± 2.5	PASS
		VN	TN	-0.73	-0.001028	± 2.5	PASS
		VH	TN	0.53	0.000746	± 2.5	PASS
	HCH	VL	TN	2.74	0.003854	± 2.5	PASS
		VN	TN	2.99	0.004205	± 2.5	PASS
		VH	TN	-0.61	-0.000858	± 2.5	PASS
16QAM	LCH	VL	TN	-0.46	-0.000649	± 2.5	PASS
		VN	TN	4.22	0.005952	± 2.5	PASS
		VH	TN	3.47	0.004894	± 2.5	PASS
	MCH	VL	TN	2.8	0.003944	± 2.5	PASS
		VN	TN	0.85	0.001197	± 2.5	PASS
		VH	TN	-0.9	-0.001268	± 2.5	PASS
	HCH	VL	TN	-0.74	-0.001041	± 2.5	PASS
		VN	TN	3.24	0.004557	± 2.5	PASS
		VH	TN	4.33	0.006090	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	2.25	0.003173	± 2.5	PASS
		VN	-20	3.81	0.005374	± 2.5	PASS
		VN	-10	0.59	0.000832	± 2.5	PASS
		VN	0	2.04	0.002877	± 2.5	PASS
		VN	10	3.96	0.005585	± 2.5	PASS
		VN	20	-1.25	-0.001763	± 2.5	PASS
		VN	30	-1.08	-0.001523	± 2.5	PASS
		VN	40	-1.02	-0.001439	± 2.5	PASS
		VN	50	2.3	0.003244	± 2.5	PASS
	MCH	VN	-30	2.94	0.004141	± 2.5	PASS
		VN	-20	0.77	0.001085	± 2.5	PASS

		VN	-10	1.12	0.001577	± 2.5	PASS		
		VN	0	0.89	0.001254	± 2.5	PASS		
		VN	10	-0.86	-0.001211	± 2.5	PASS		
		VN	20	3.23	0.004549	± 2.5	PASS		
		VN	30	-0.15	-0.000211	± 2.5	PASS		
		VN	40	3	0.004225	± 2.5	PASS		
		VN	50	4.68	0.006592	± 2.5	PASS		
	HCH	VN	-30	2.22	0.003122	± 2.5	PASS		
		VN	-20	-0.7	-0.000985	± 2.5	PASS		
		VN	-10	3.19	0.004487	± 2.5	PASS		
		VN	0	2.15	0.003024	± 2.5	PASS		
		VN	10	-1.53	-0.002152	± 2.5	PASS		
		VN	20	3.29	0.004627	± 2.5	PASS		
		VN	30	1.96	0.002757	± 2.5	PASS		
		VN	40	-1.32	-0.001857	± 2.5	PASS		
		VN	50	-0.38	-0.000534	± 2.5	PASS		
		16QAM	LCH	VN	-30	4.29	0.006042	± 2.5	PASS
				VN	-20	-0.52	-0.000732	± 2.5	PASS
VN	-10			-0.52	-0.000732	± 2.5	PASS		
VN	0			3.09	0.004352	± 2.5	PASS		
VN	10			-0.02	-0.000028	± 2.5	PASS		
VN	20			2.94	0.004141	± 2.5	PASS		
VN	30			1.47	0.002070	± 2.5	PASS		
VN	40			2.16	0.003042	± 2.5	PASS		
VN	50			4.54	0.006394	± 2.5	PASS		
MCH	VN		-30	4.69	0.006596	± 2.5	PASS		
	VN		-20	-0.26	-0.000366	± 2.5	PASS		
	VN		-10	-0.56	-0.000788	± 2.5	PASS		
	VN		0	2.17	0.003052	± 2.5	PASS		
	VN		10	-0.6	-0.000844	± 2.5	PASS		
	VN		20	-0.58	-0.000816	± 2.5	PASS		
	VN		30	-0.04	-0.000056	± 2.5	PASS		
	VN		40	3.41	0.004796	± 2.5	PASS		
	VN		50	-0.45	-0.000633	± 2.5	PASS		
HCH	VN		-30	1.86	0.002616	± 2.5	PASS		
	VN		-20	2.69	0.003783	± 2.5	PASS		
	VN		-10	2.23	0.003136	± 2.5	PASS		
	VN		0	3.35	0.004712	± 2.5	PASS		
	VN		10	1.52	0.002138	± 2.5	PASS		
	VN		20	0.38	0.000534	± 2.5	PASS		
	VN		30	3.79	0.005331	± 2.5	PASS		



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		VN	40	1.9	0.002672	± 2.5	PASS
		VN	50	0.68	0.000956	± 2.5	PASS