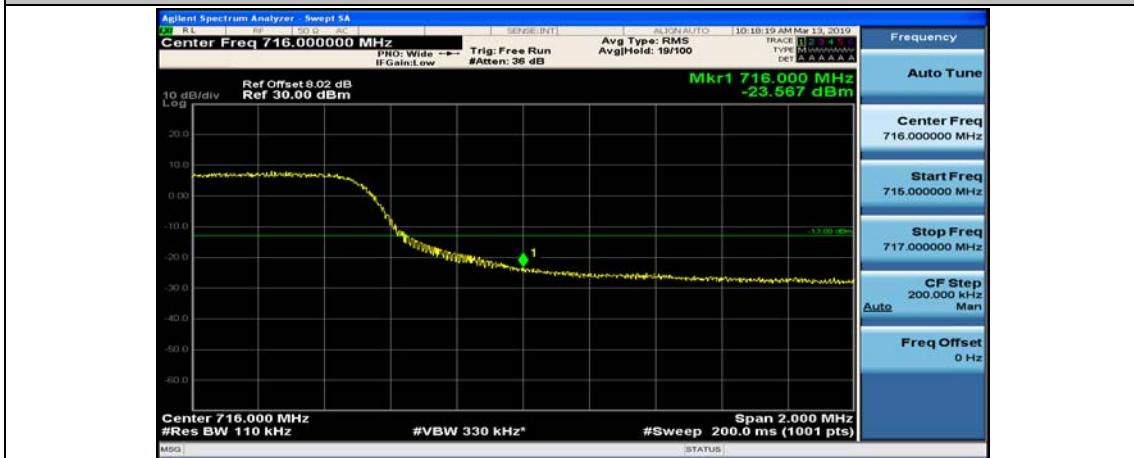




Channel Bandwidth: 10 MHz\_HCH\_QPSK\_25RB#25



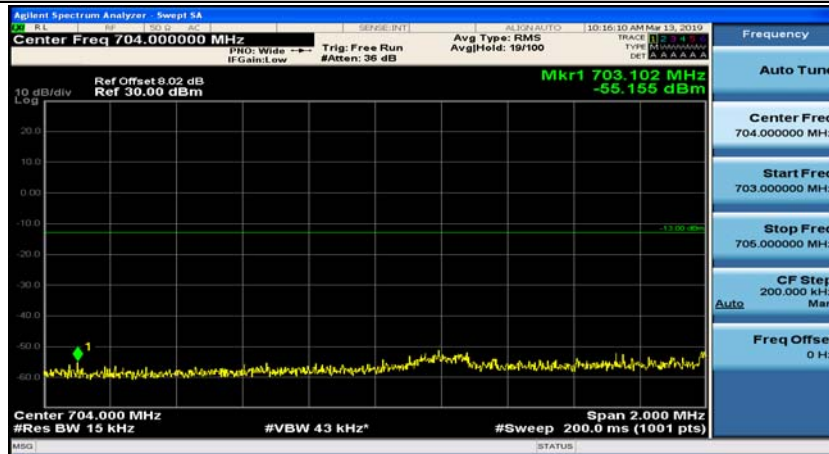
Channel Bandwidth: 10 MHz\_HCH\_QPSK\_50RB#0



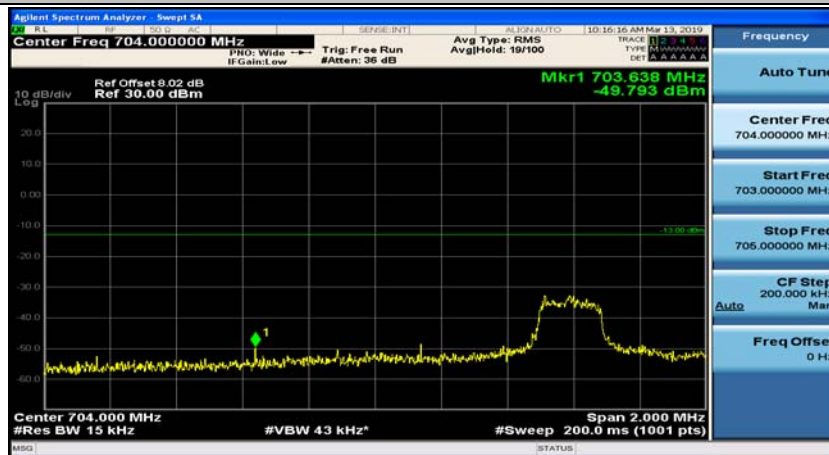
Channel Bandwidth: 10 MHz\_LCH\_16QAM\_1RB#0



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



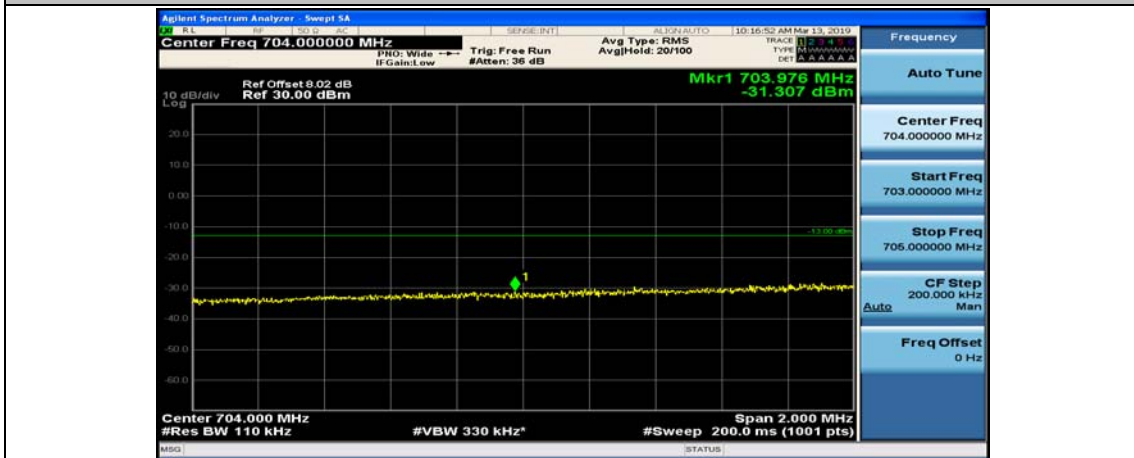
Channel Bandwidth: 10 MHz\_LCH\_16QAM\_1RB#49



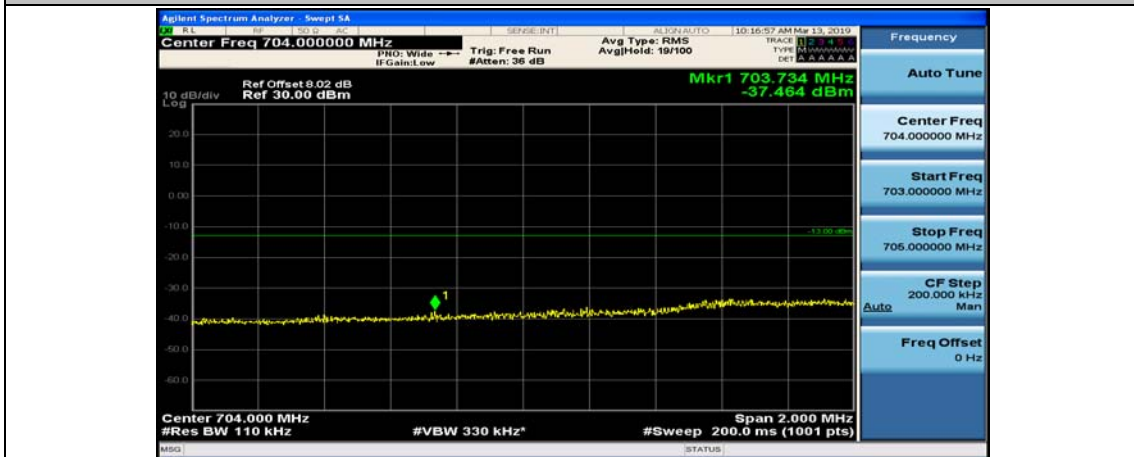
Channel Bandwidth: 10 MHz\_LCH\_16QAM\_25RB#0



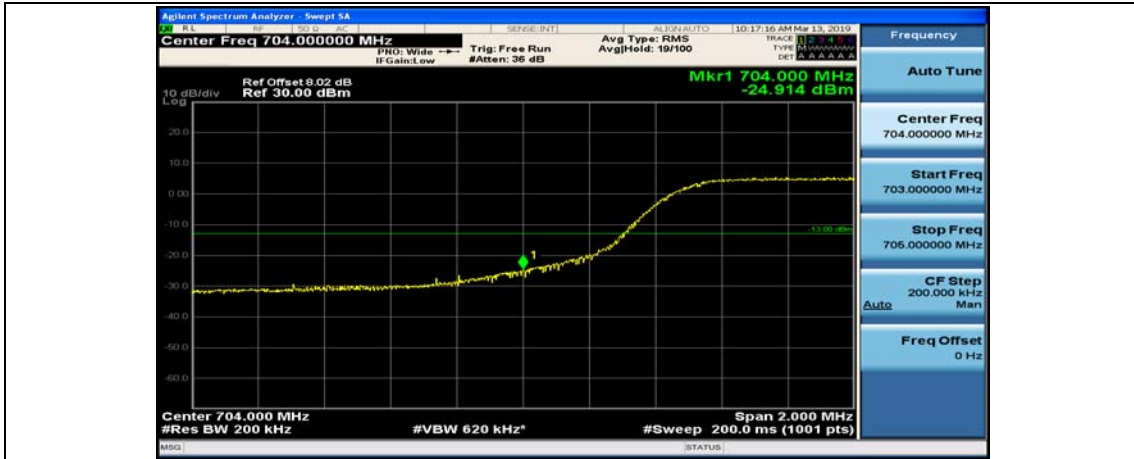
Channel Bandwidth: 10 MHz\_LCH\_16QAM\_25RB#12



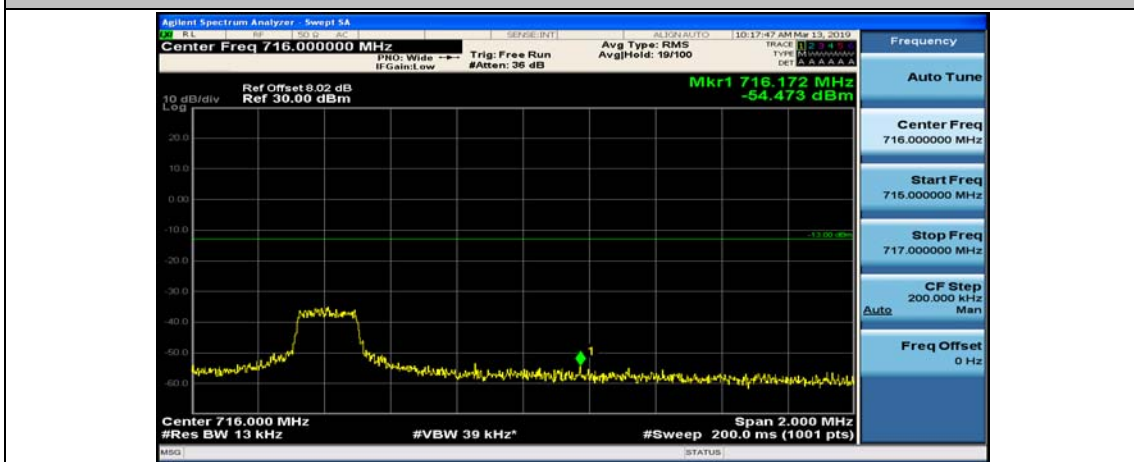
Channel Bandwidth: 10 MHz\_LCH\_16QAM\_25RB#25



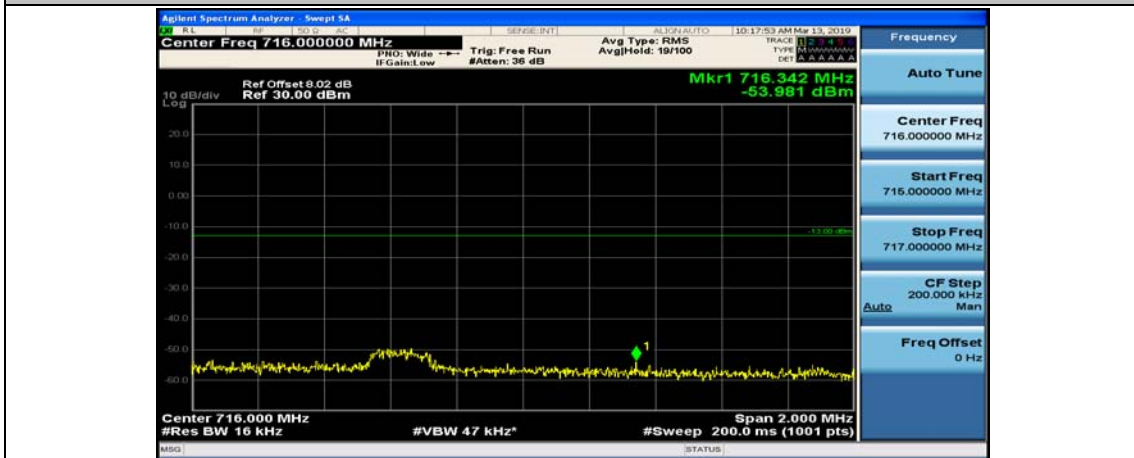
Channel Bandwidth: 10 MHz\_LCH\_16QAM\_50RB#0



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





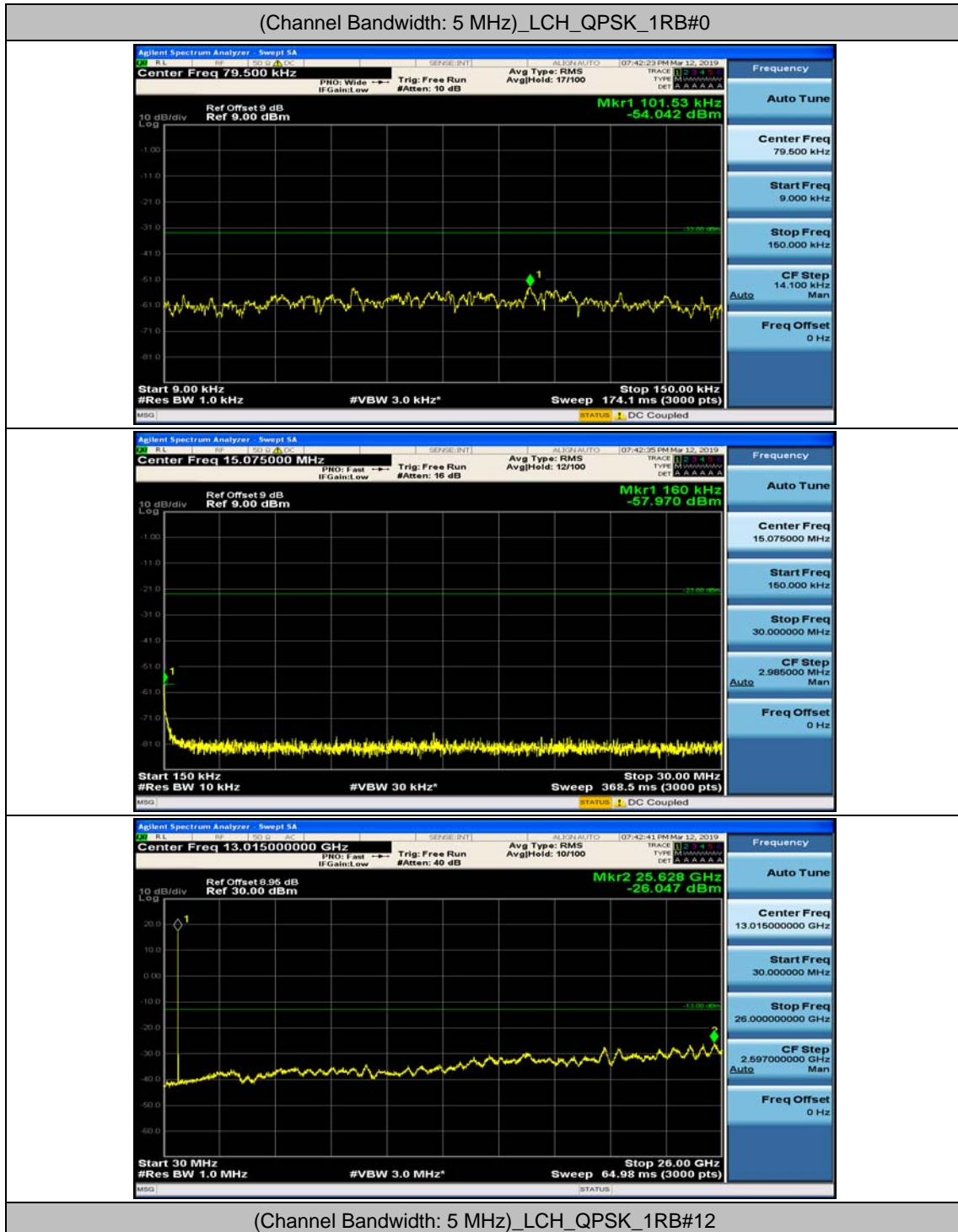
Channel Bandwidth: 10 MHz\_HCH\_16QAM\_50RB#0

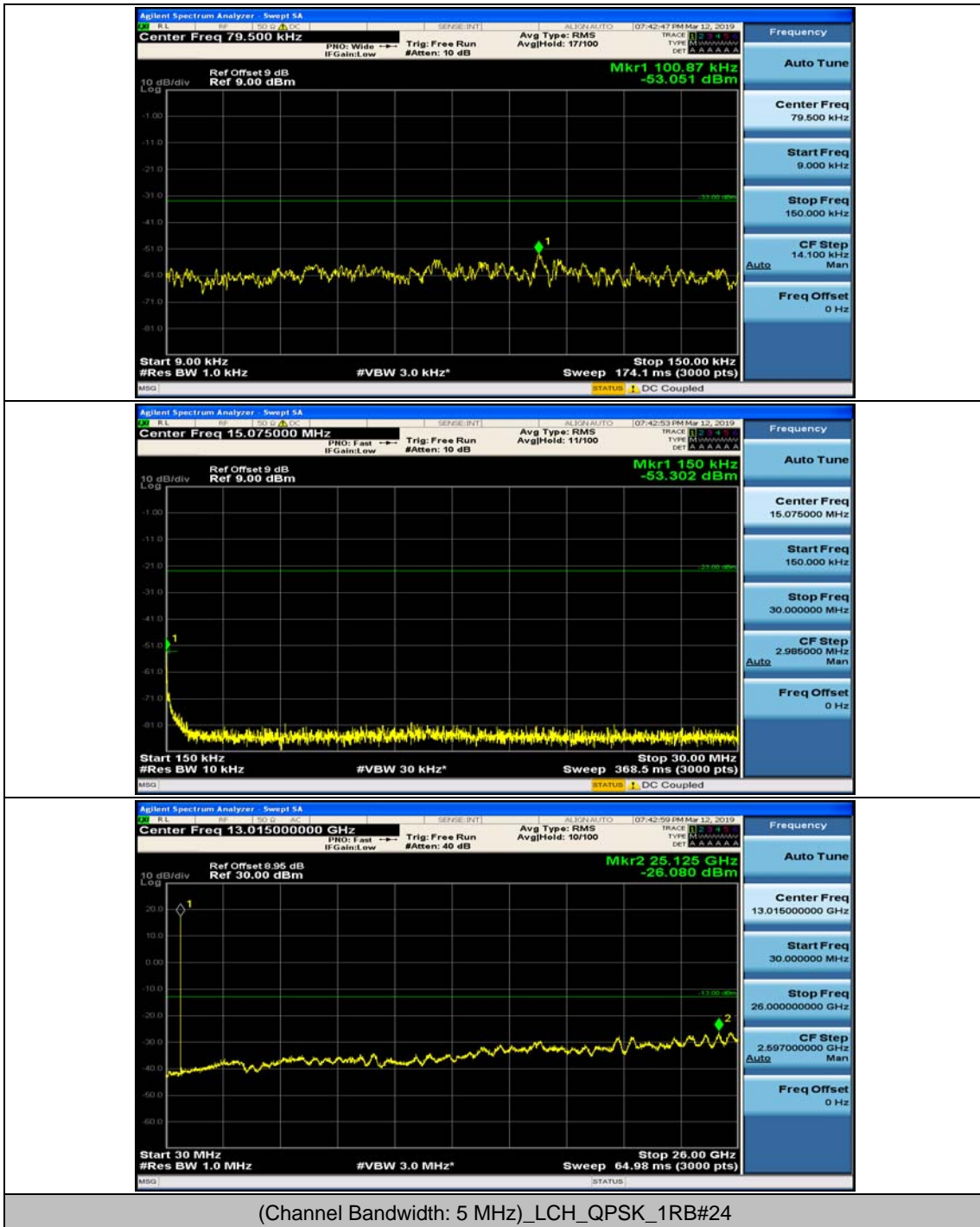


## Appendix E: Conducted Spurious Emission

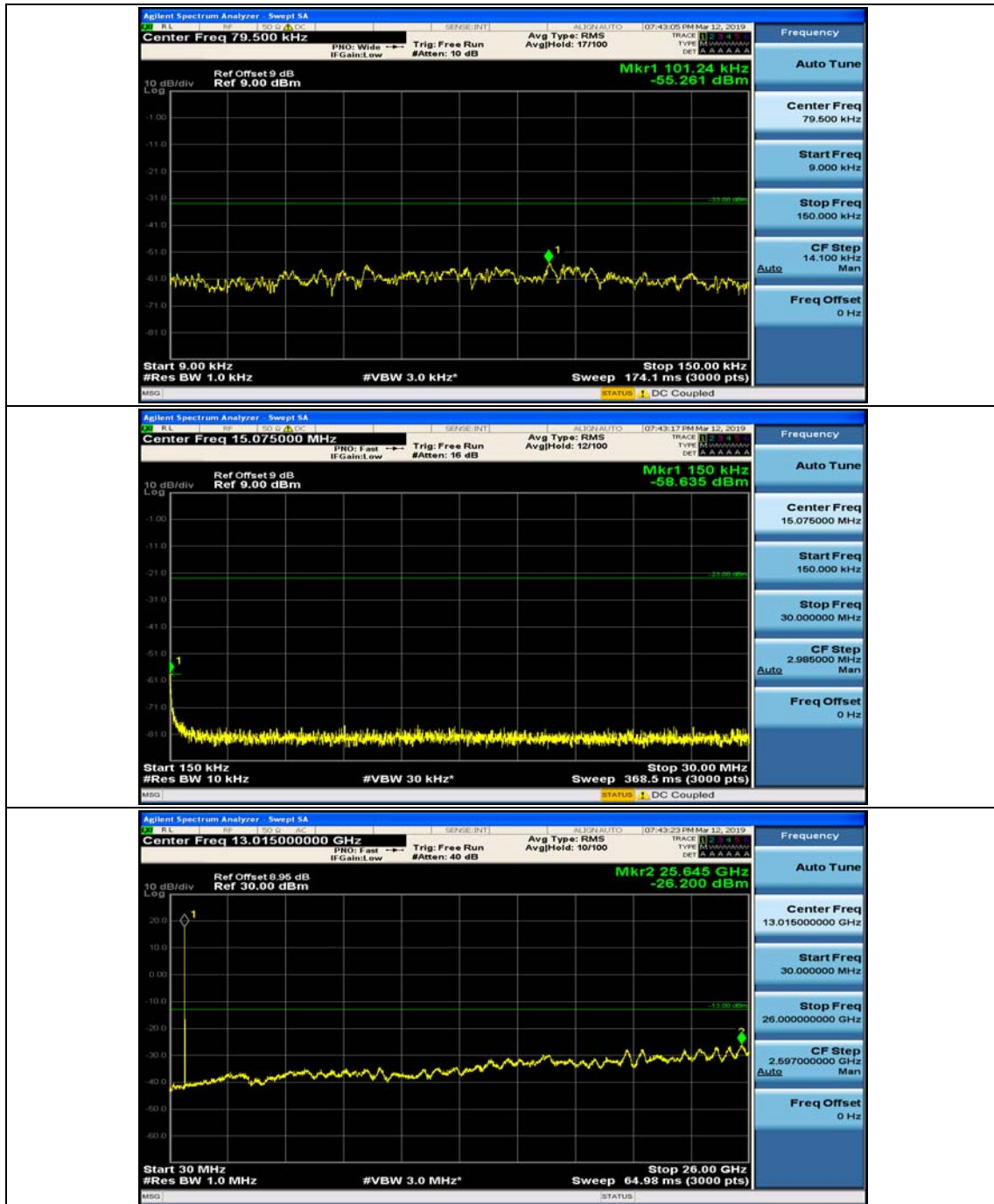
### Test Graphs

Channel Bandwidth: 5 MHz

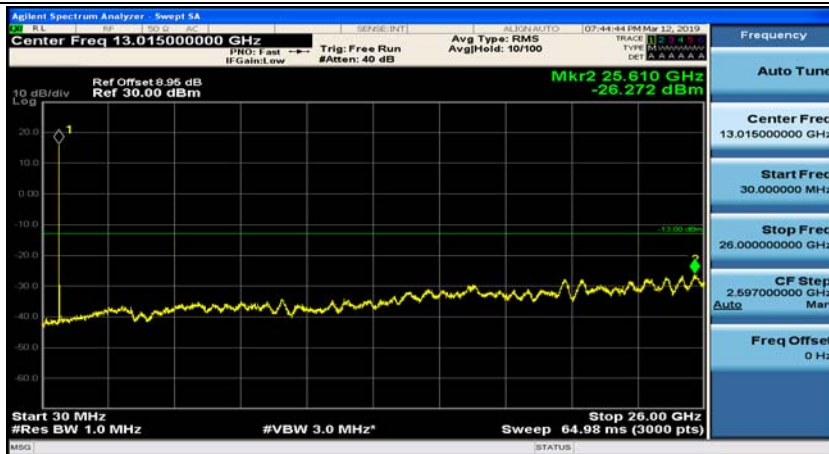
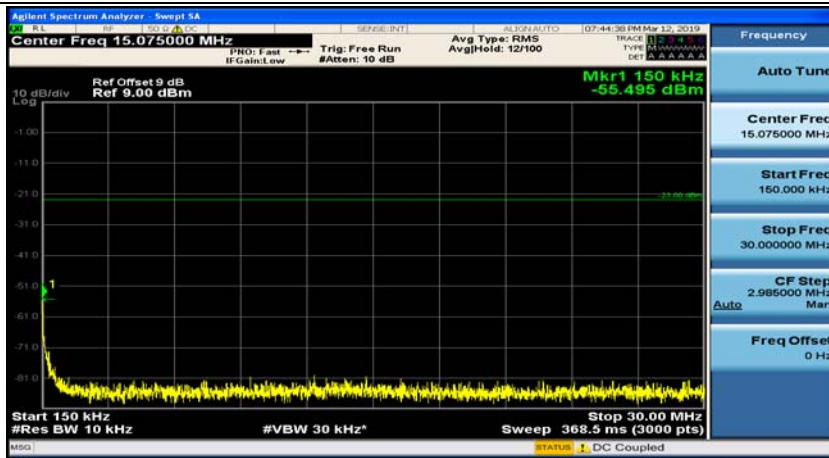
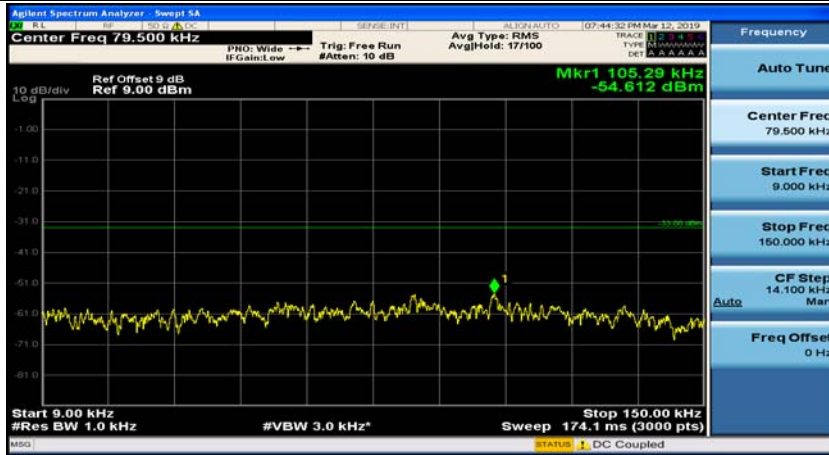




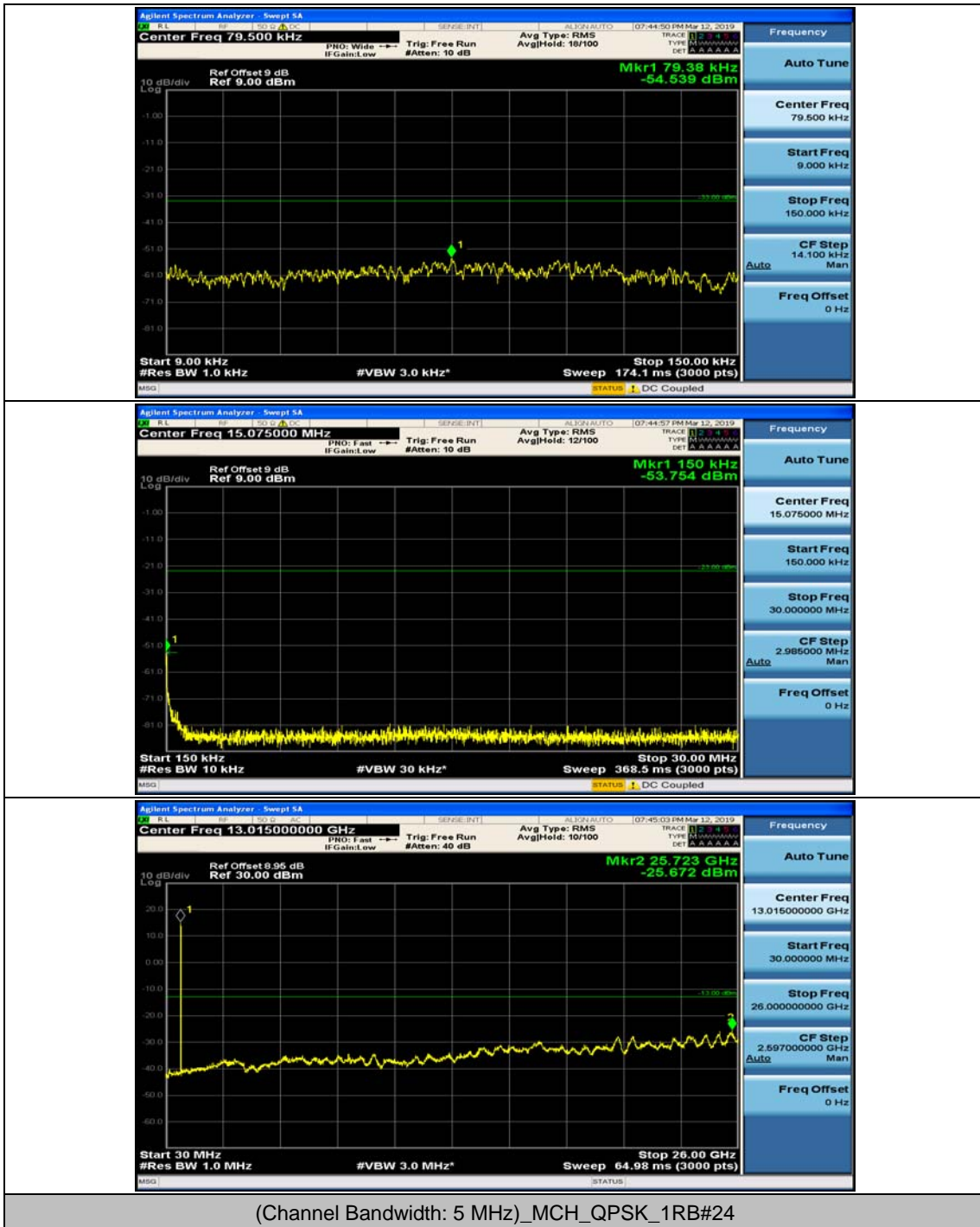


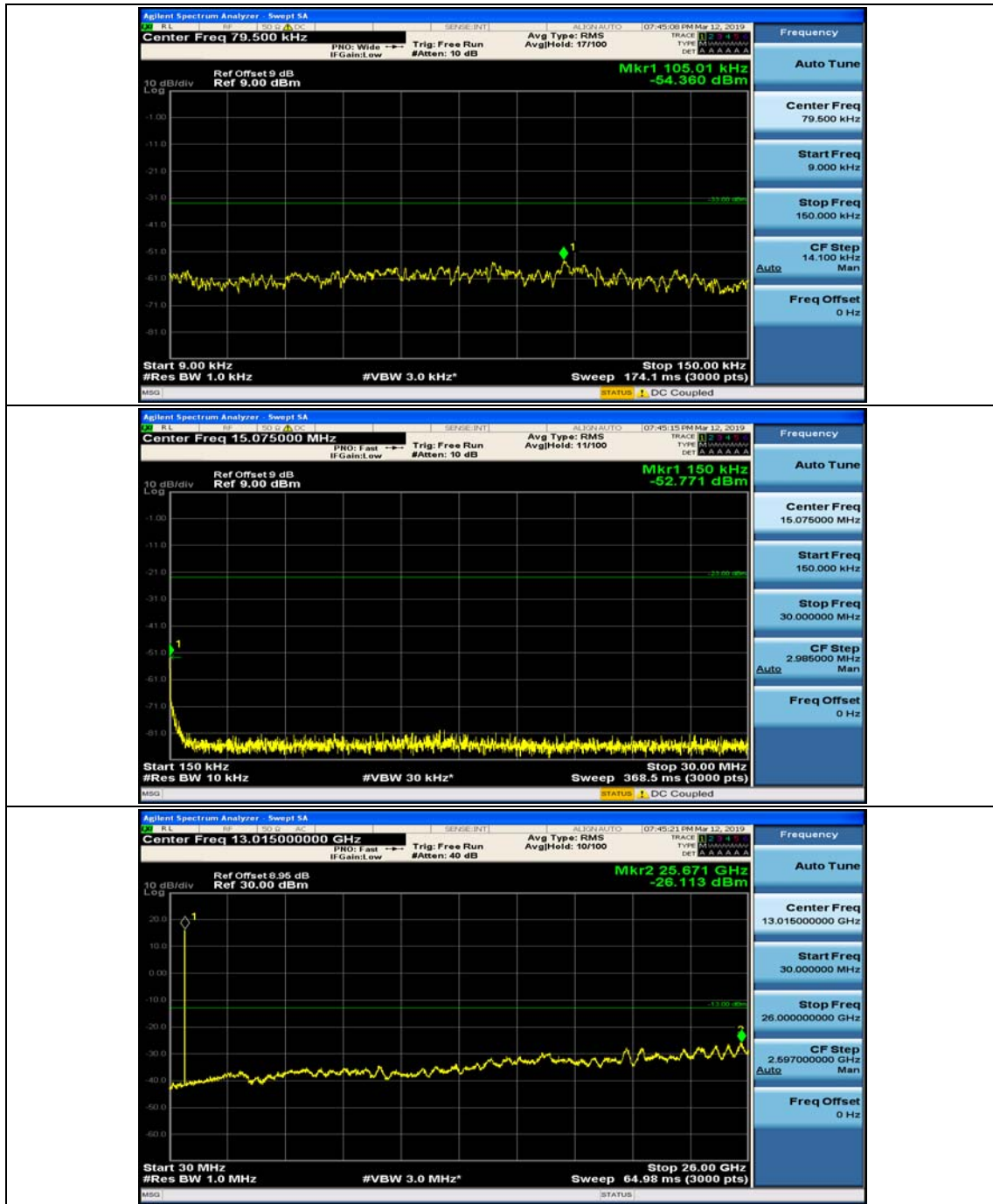


(Channel Bandwidth: 5 MHz)\_MCH\_QPSK\_1RB#0

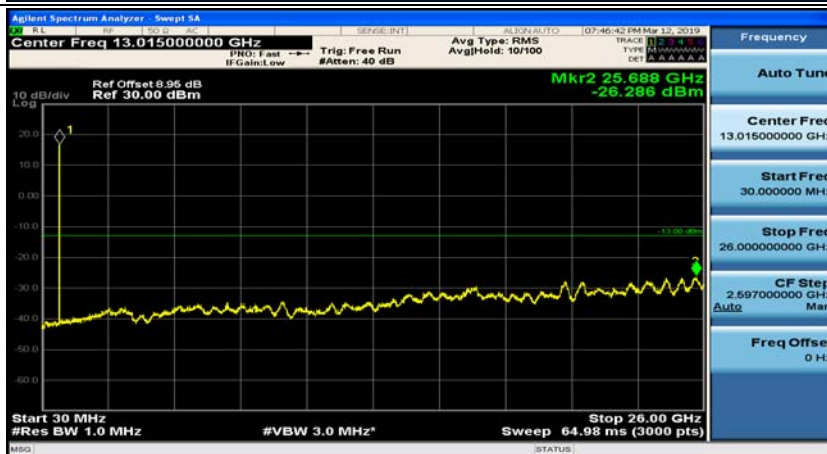
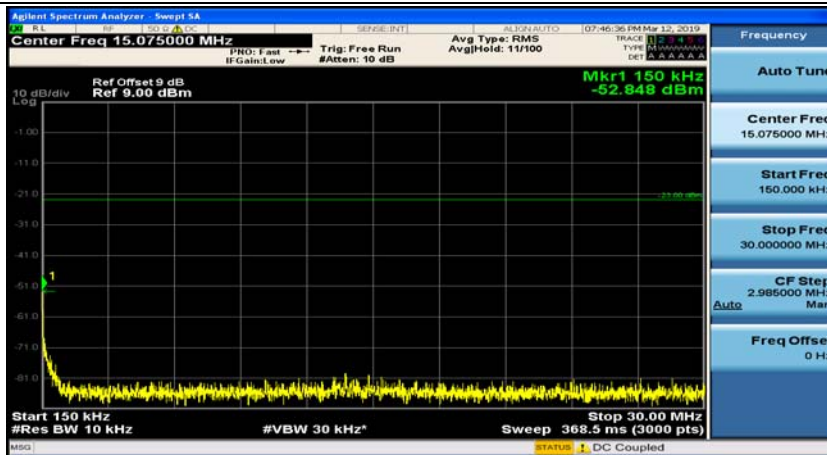
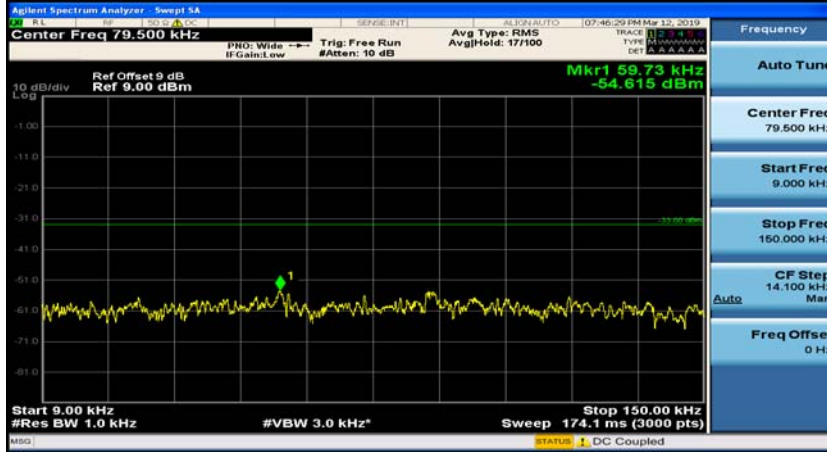


(Channel Bandwidth: 5 MHz)\_MCH\_QPSK\_1RB#12



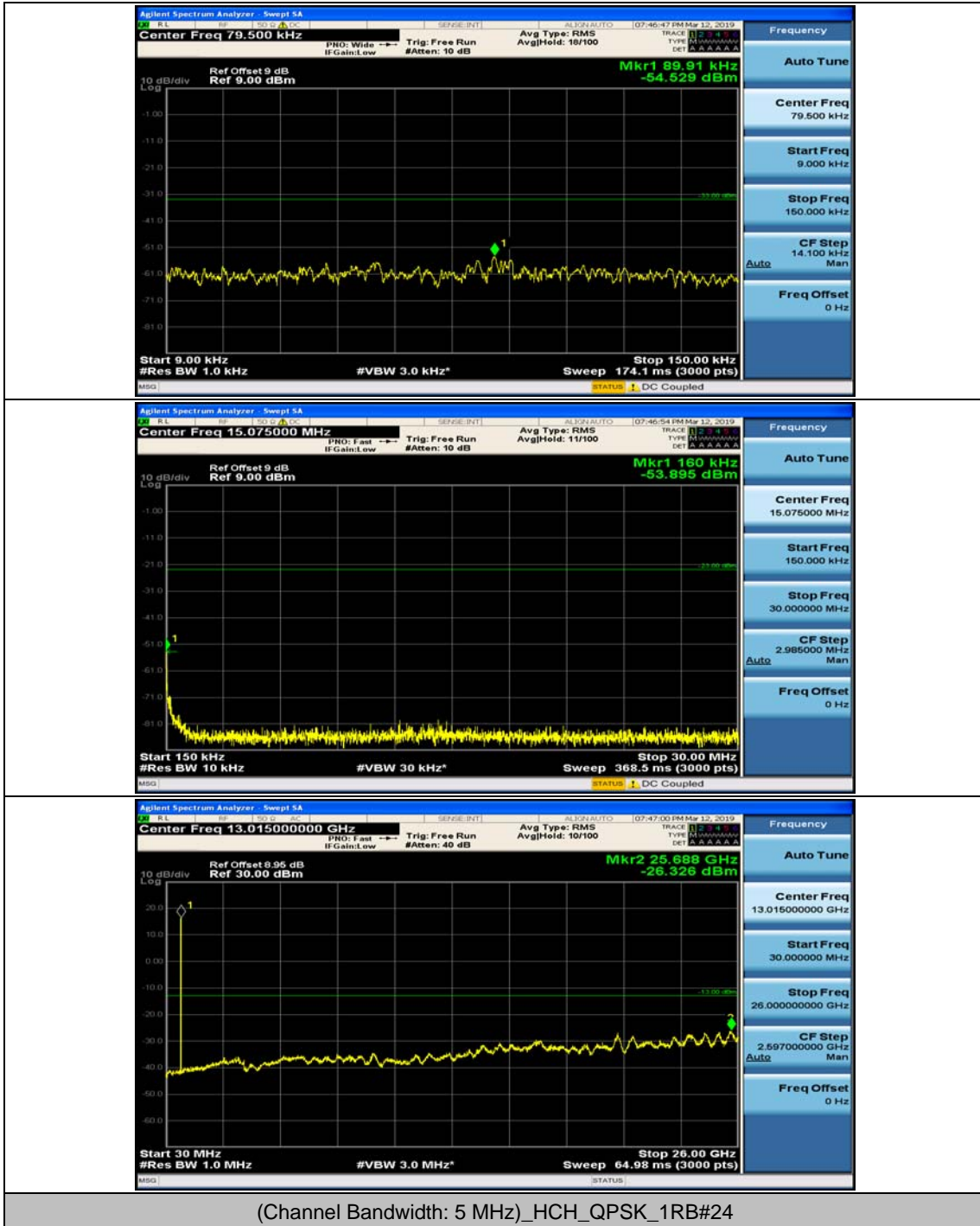


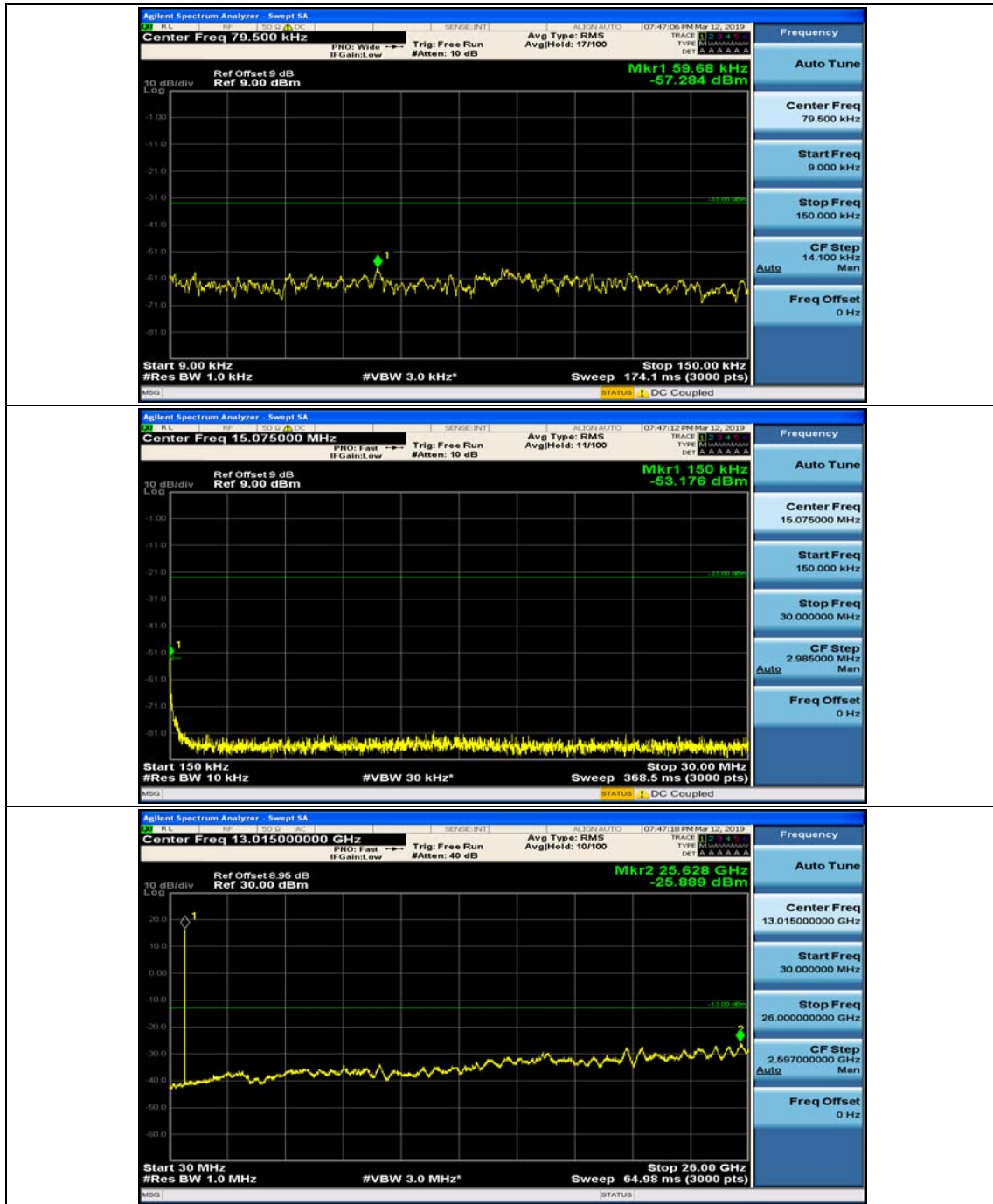
(Channel Bandwidth: 5 MHz)\_HCH\_QPSK\_1RB#0



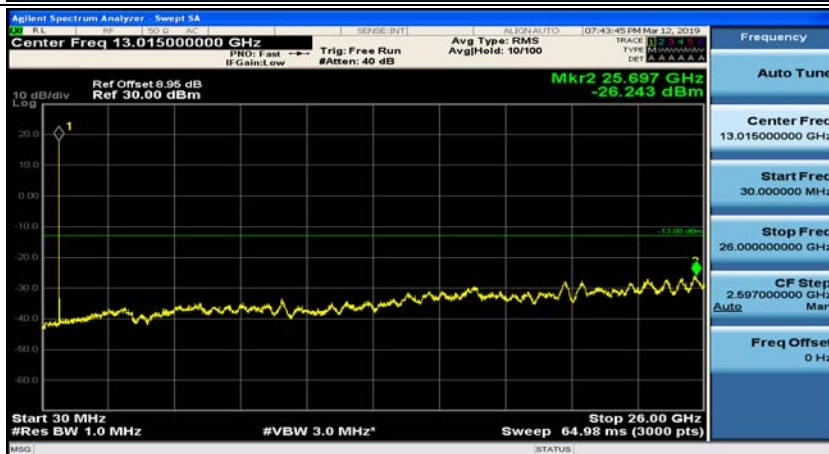
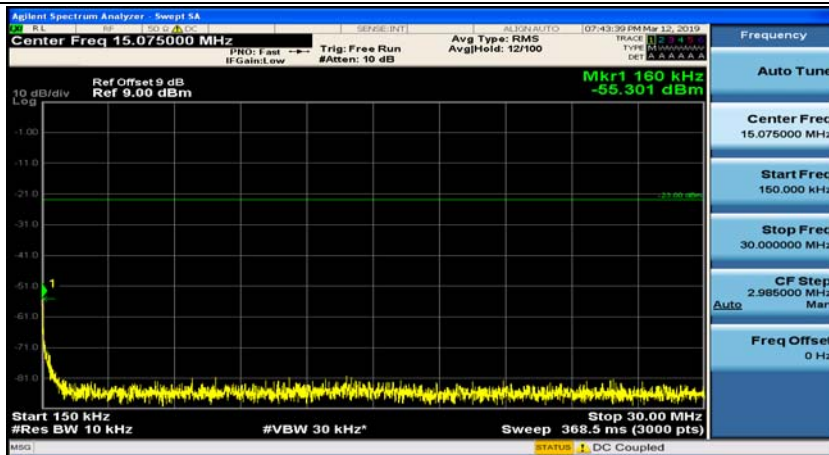
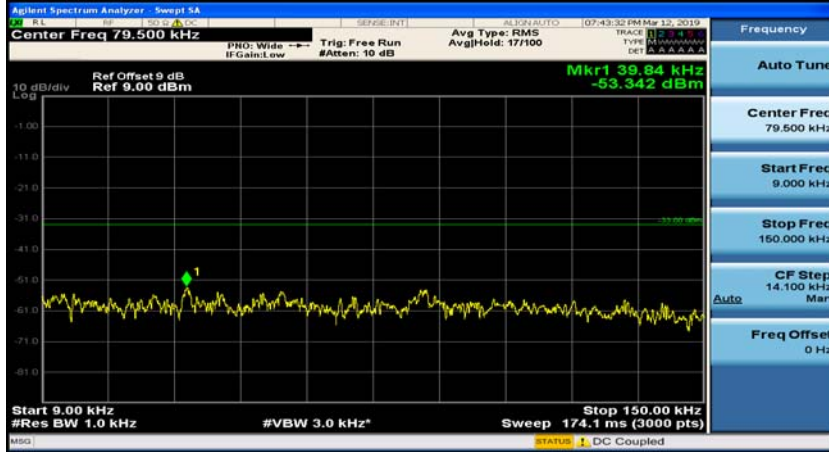
(Channel Bandwidth: 5 MHz)\_HCH\_QPSK\_1RB#12



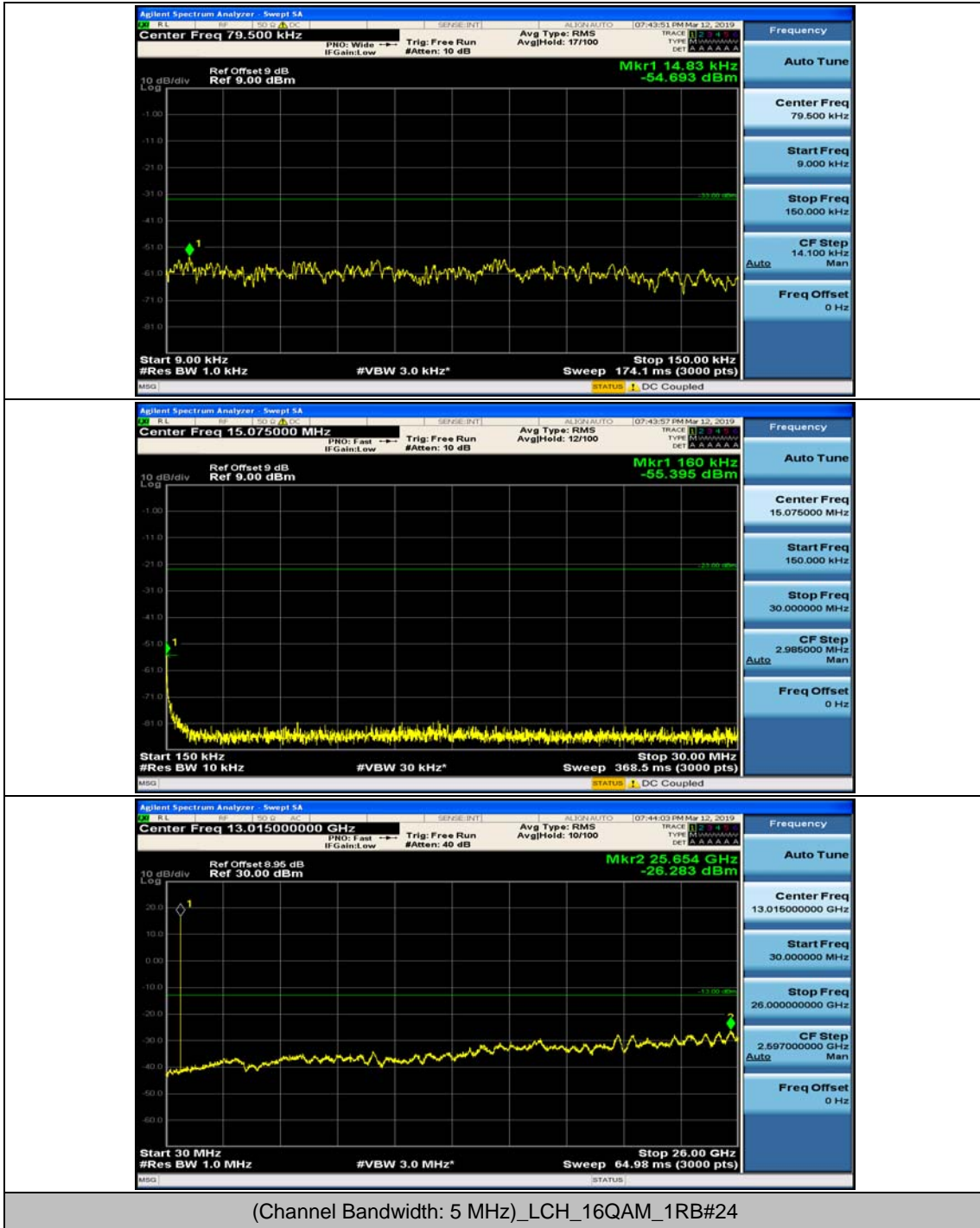


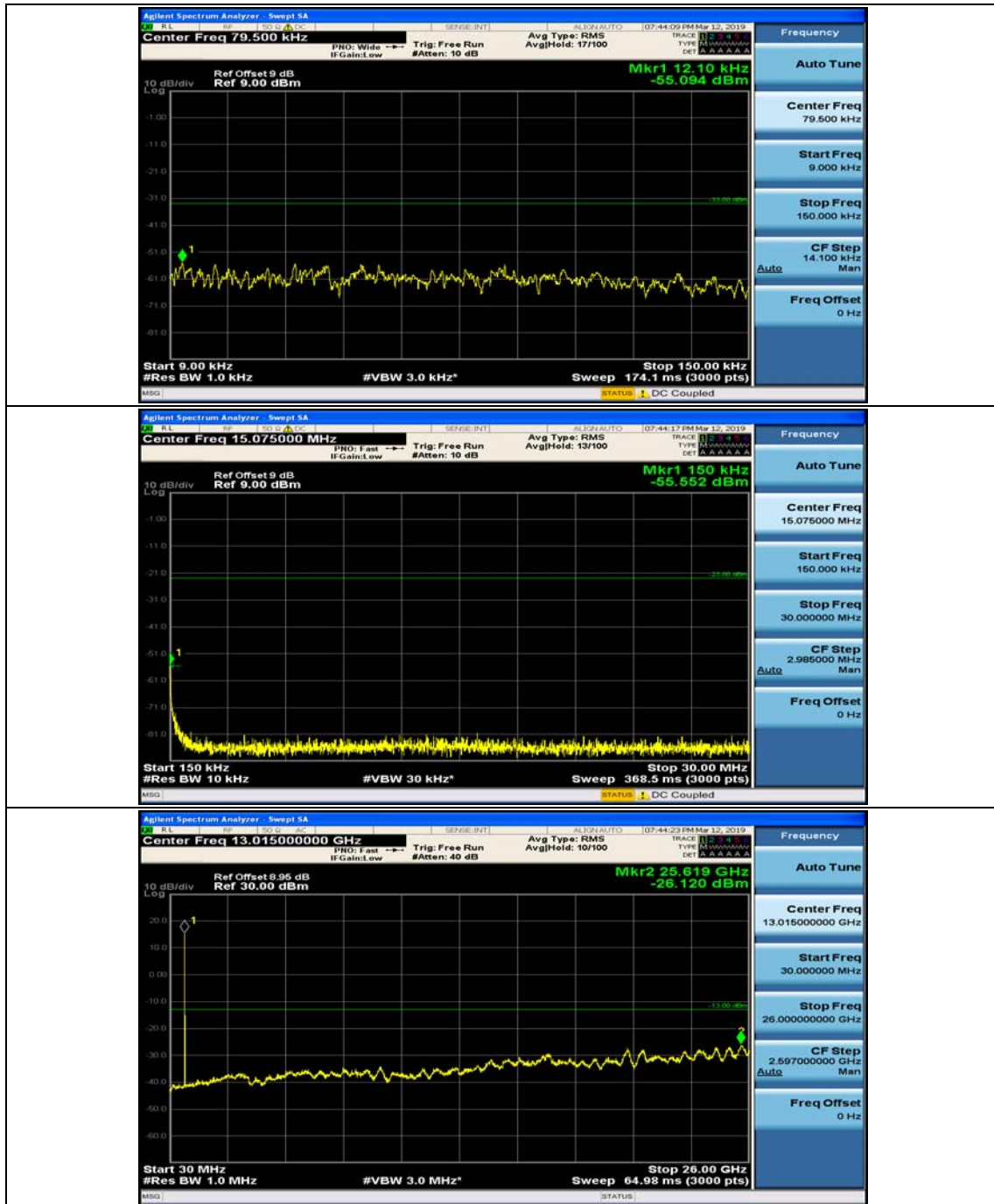


(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_1RB#0



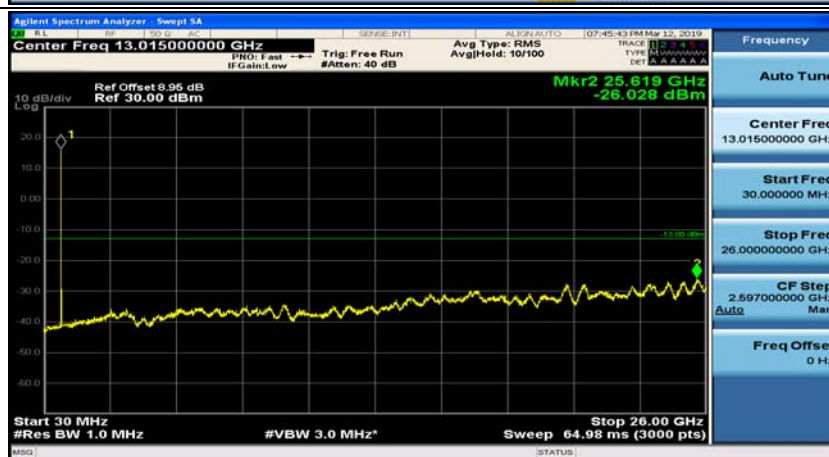
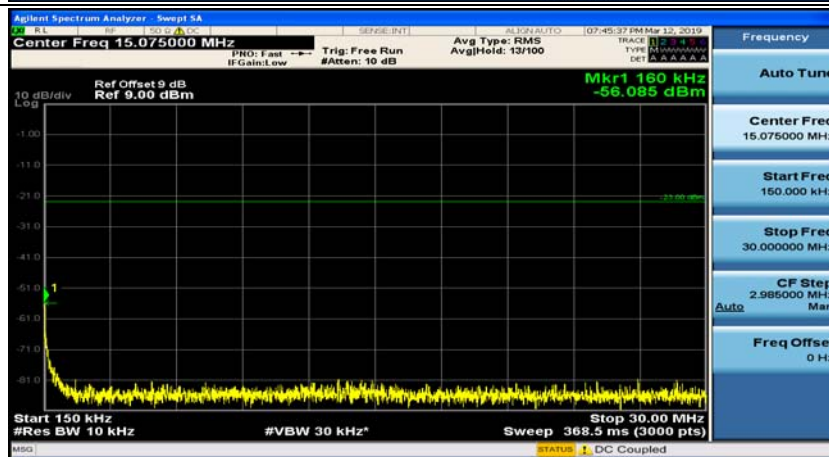
(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_1RB#12



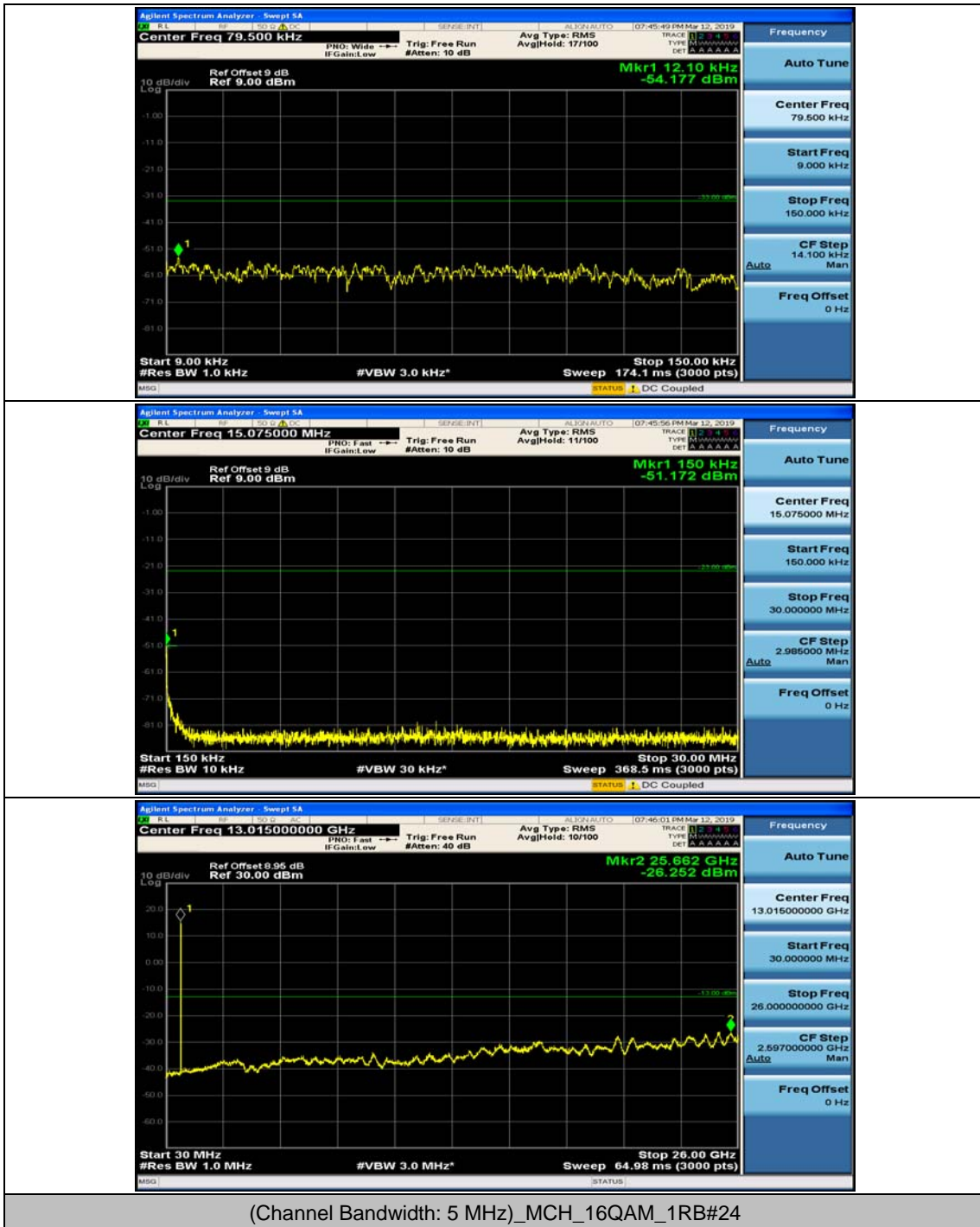


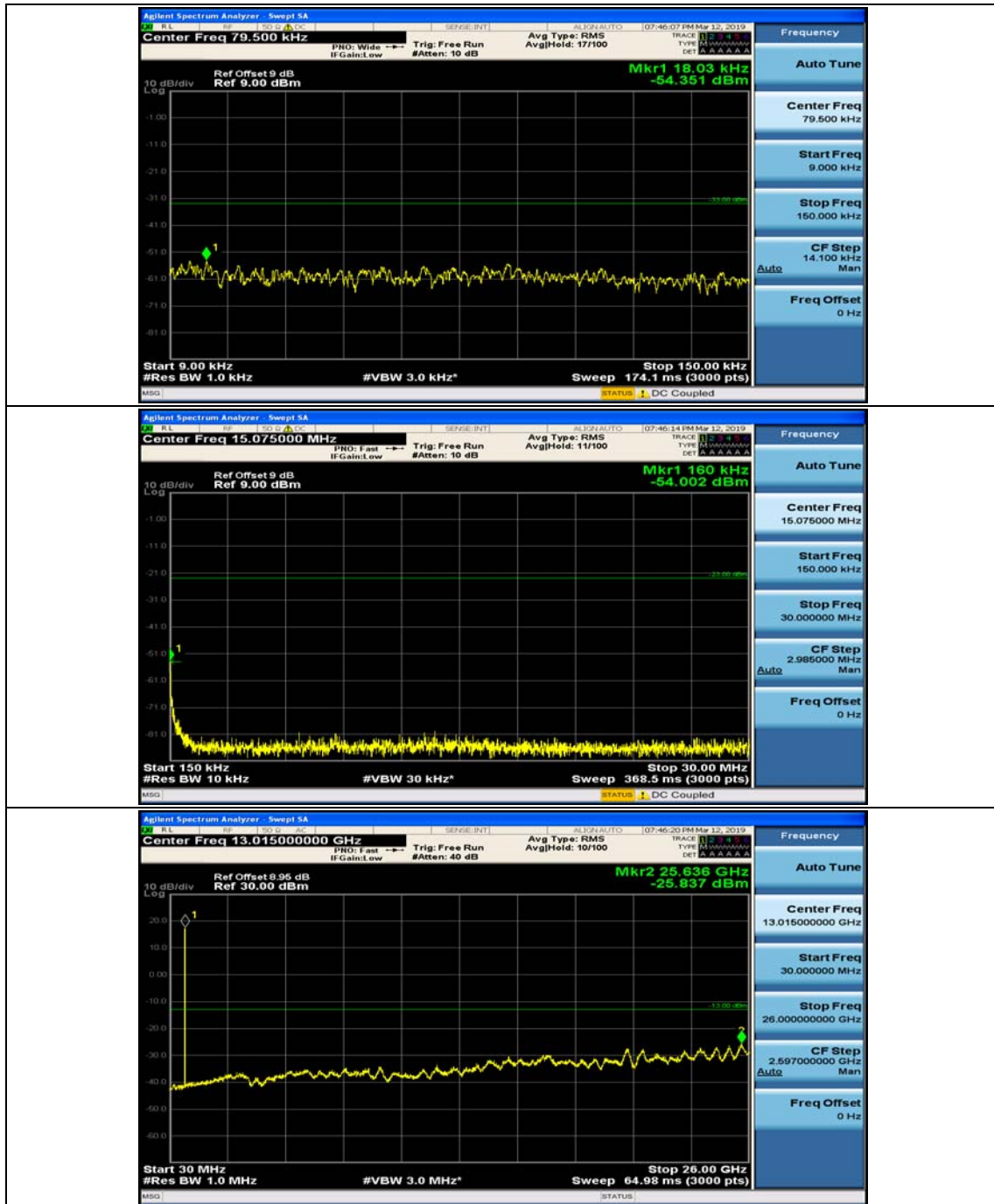


(Channel Bandwidth: 5 MHz)\_MCH\_16QAM\_1RB#0

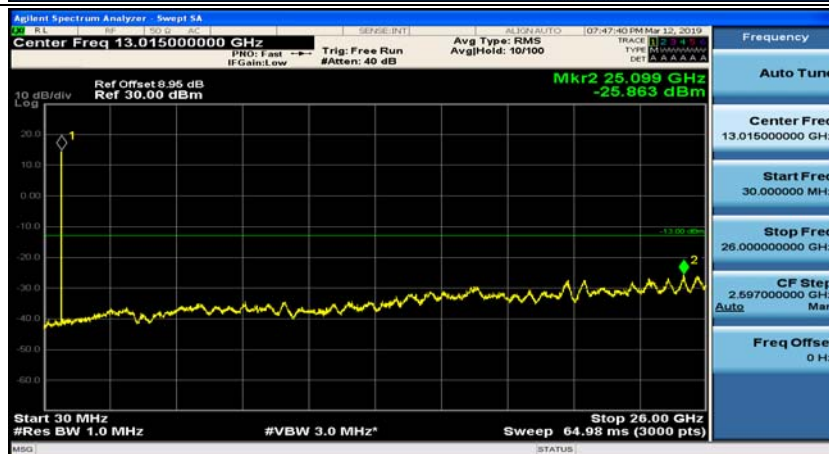
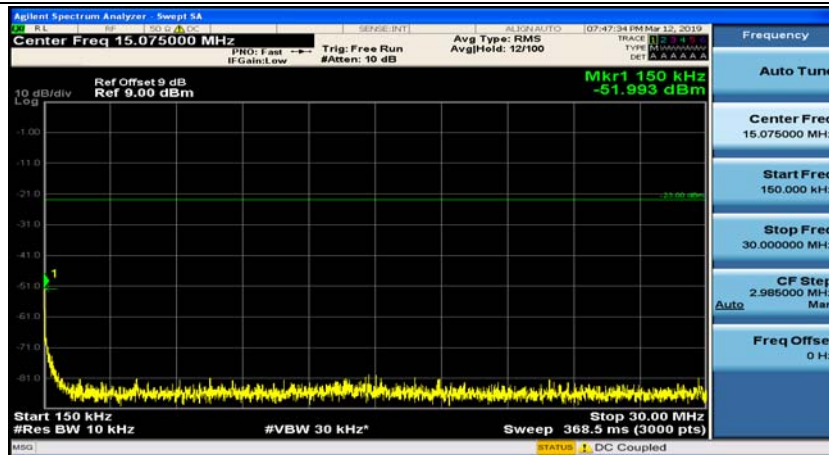
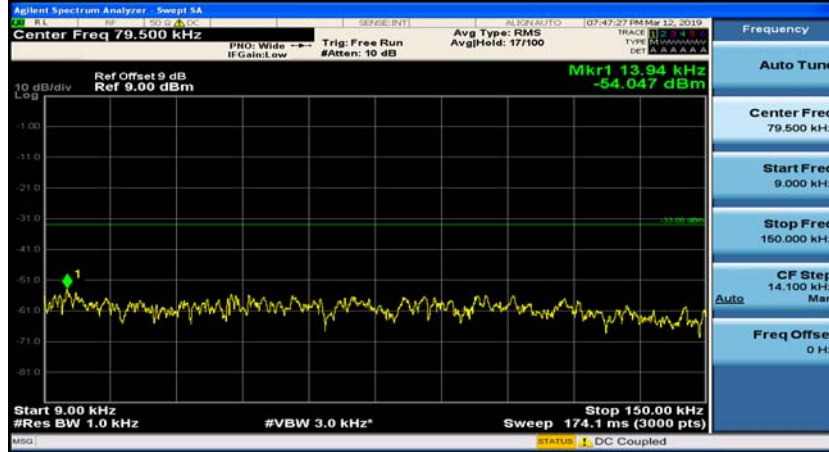


(Channel Bandwidth: 5 MHz)\_MCH\_16QAM\_1RB#12

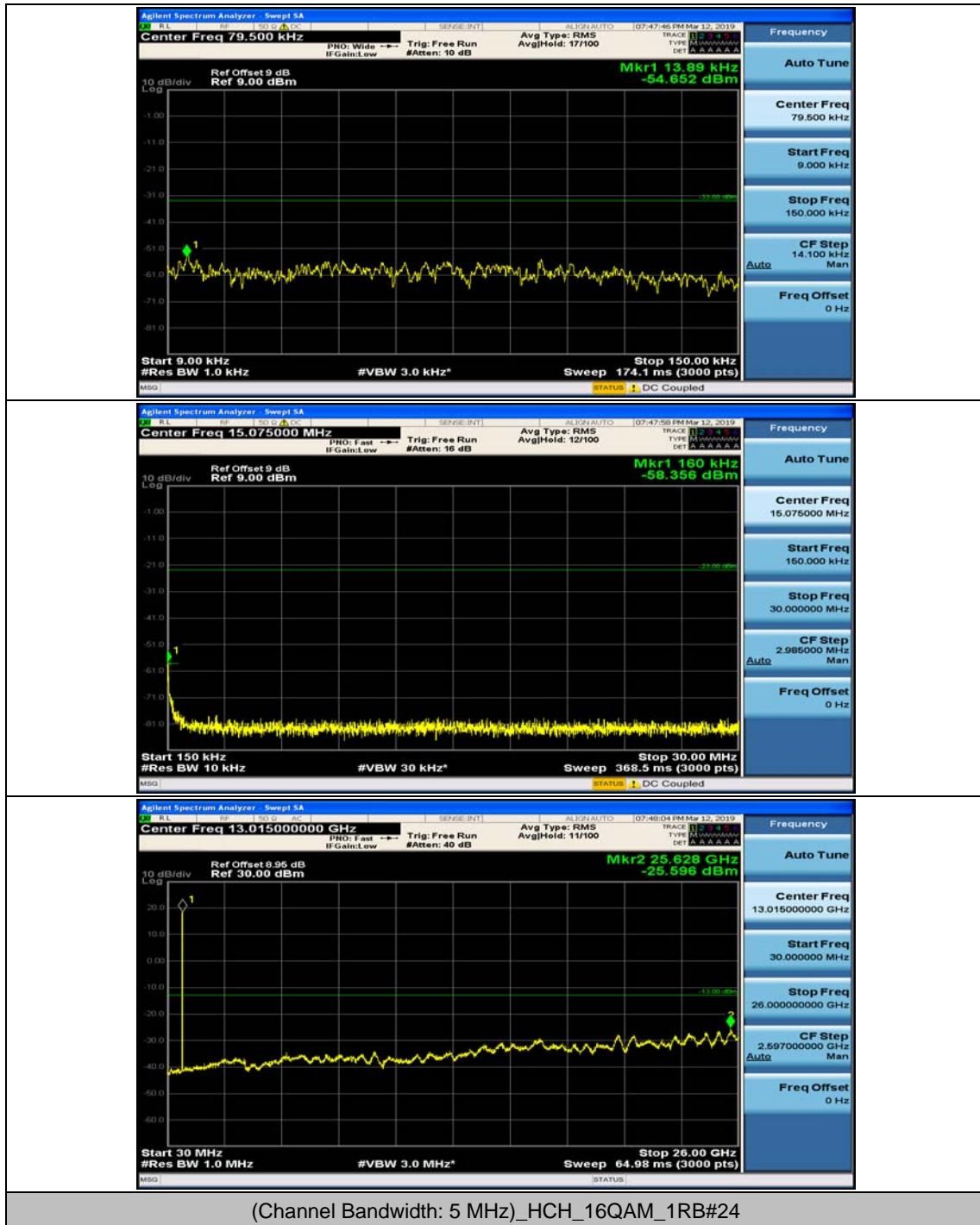




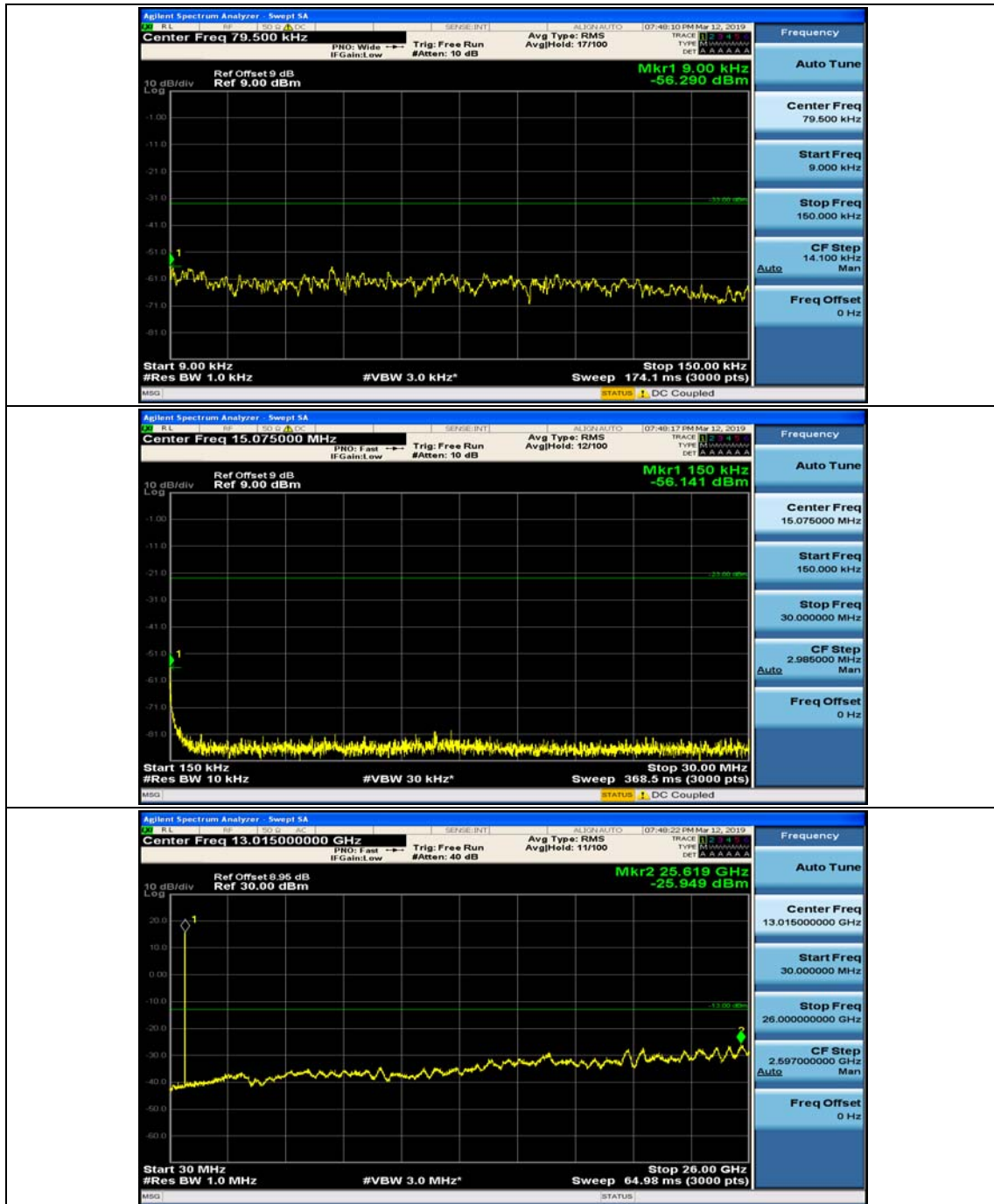
(Channel Bandwidth: 5 MHz)\_HCH\_16QAM\_1RB#0



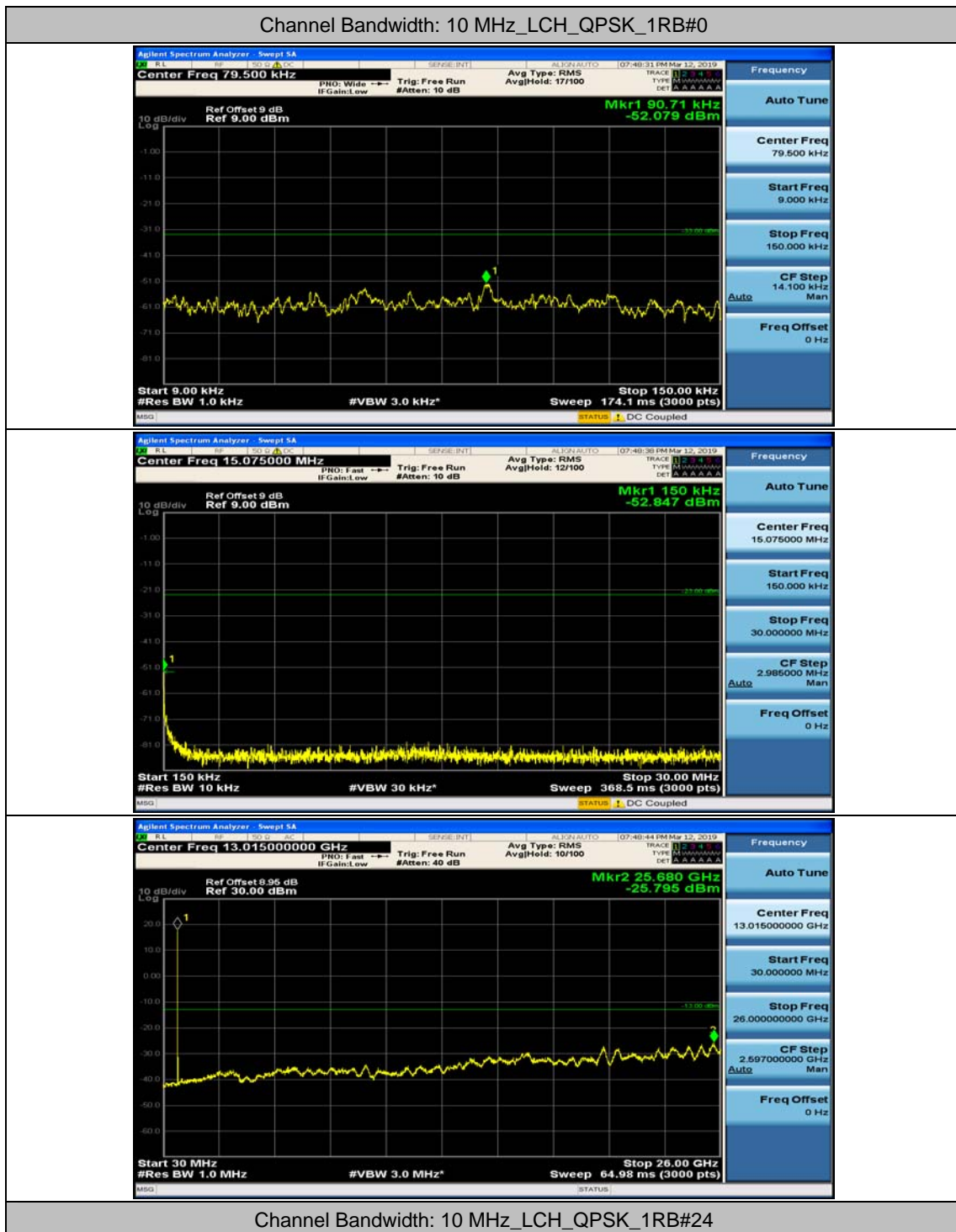
(Channel Bandwidth: 5 MHz)\_HCH\_16QAM\_1RB#12

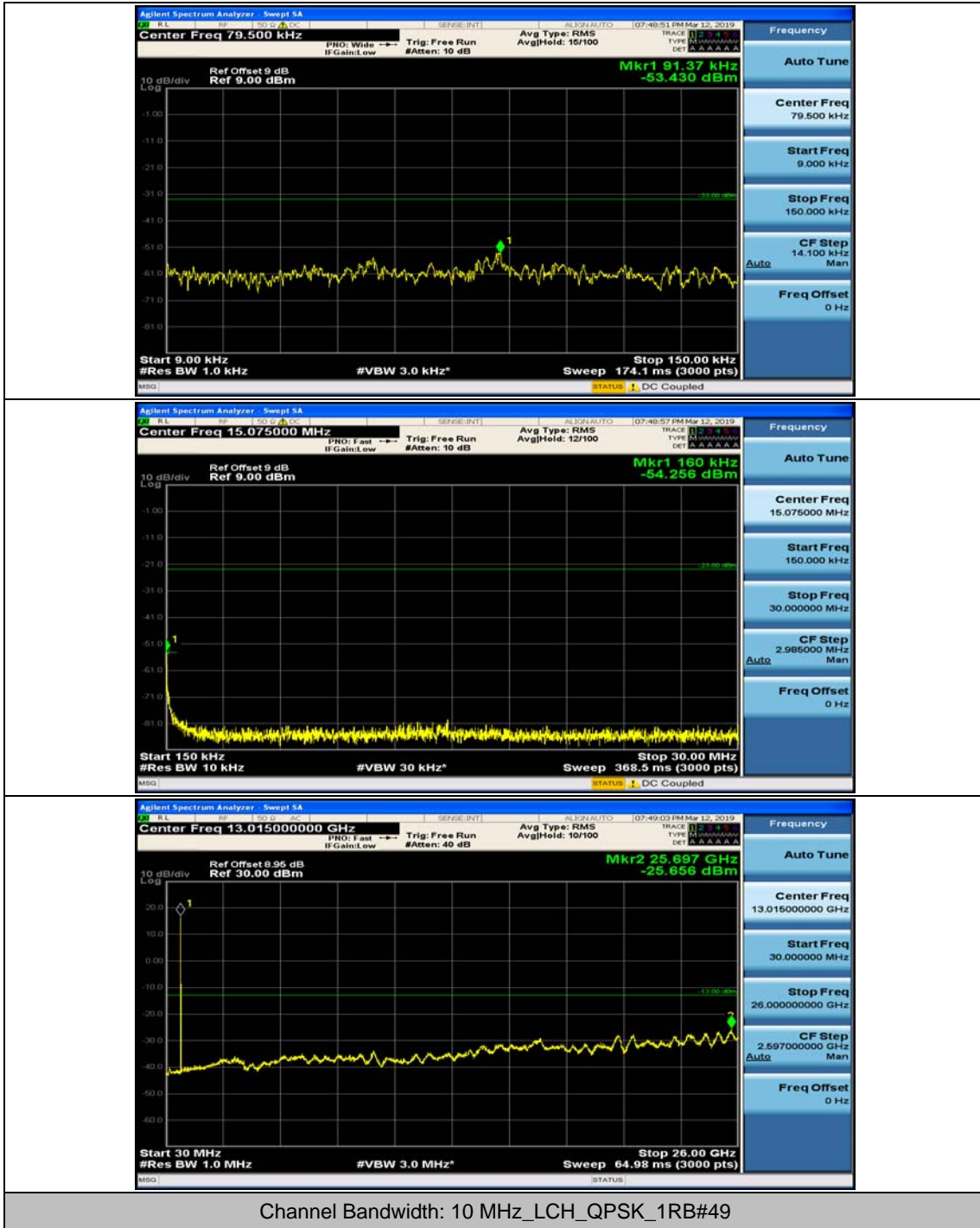


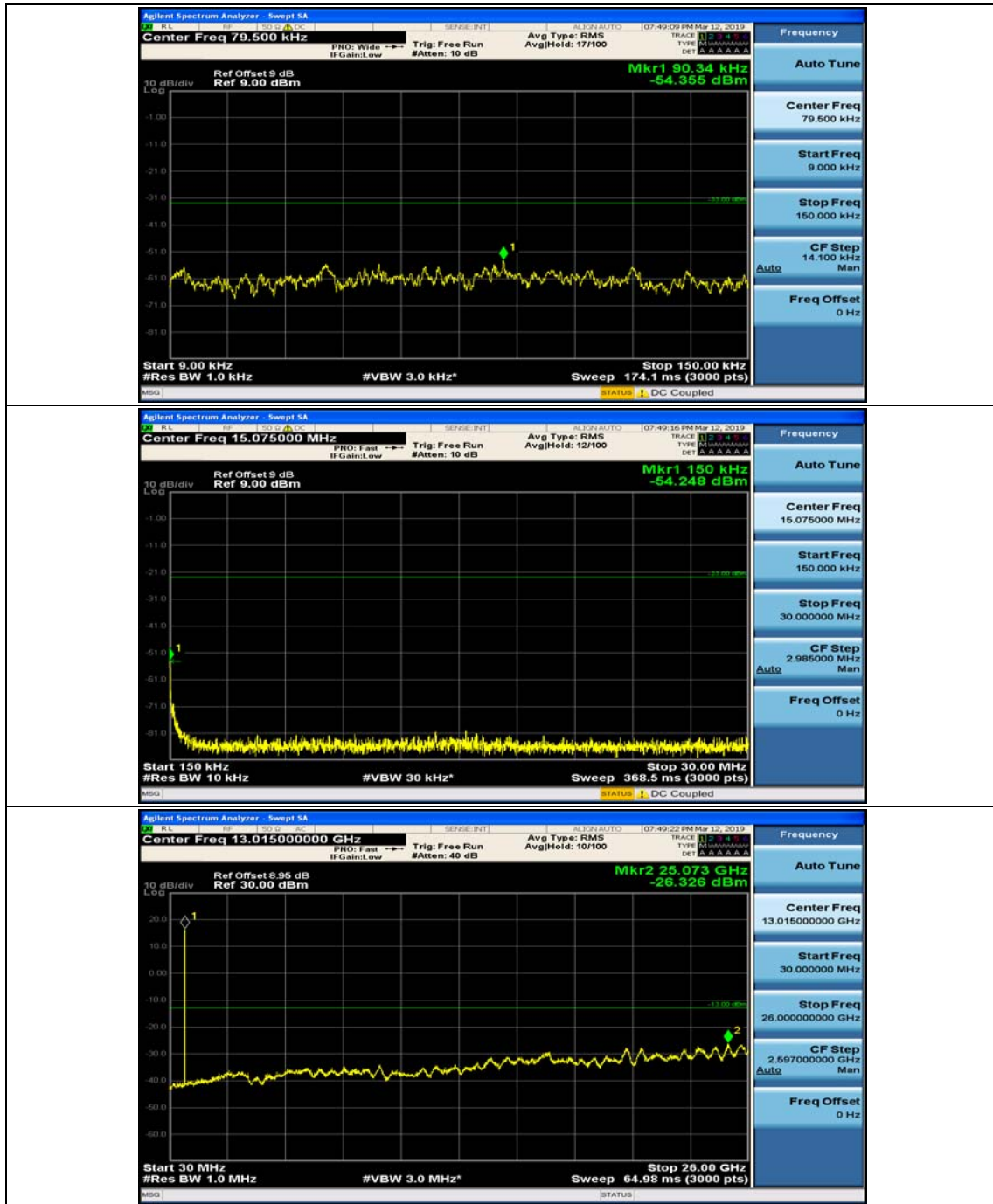




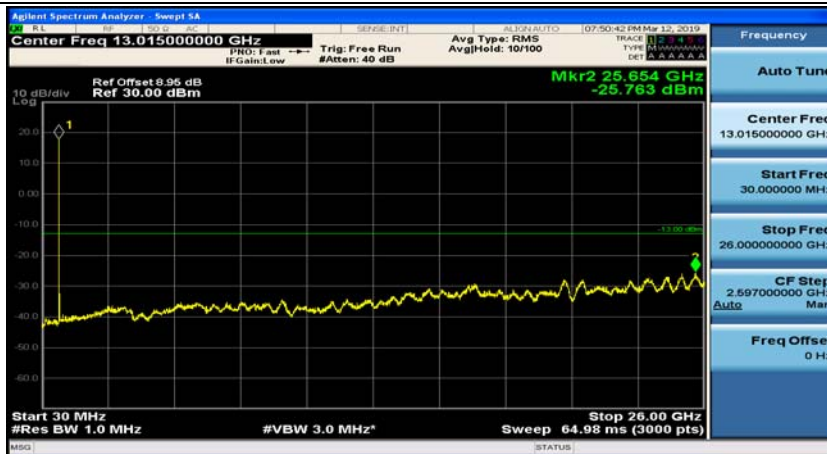
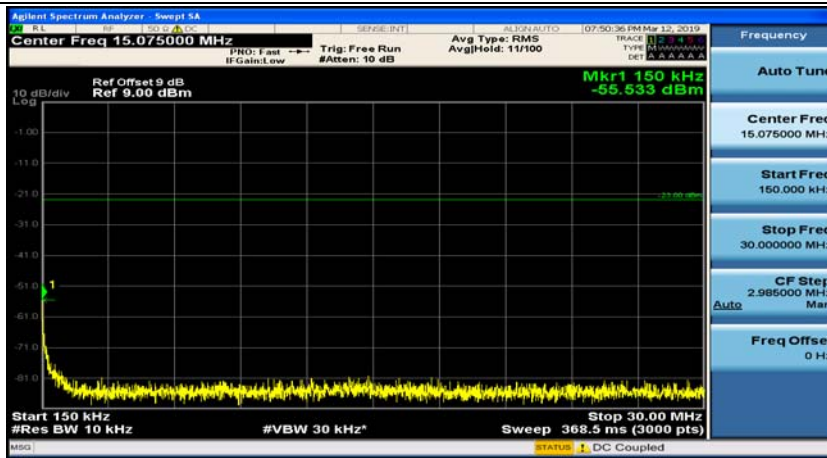
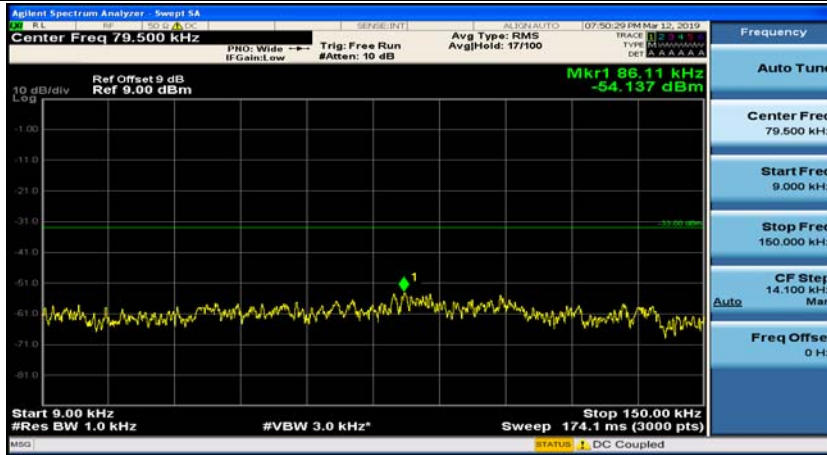
### Channel Bandwidth: 10 MHz





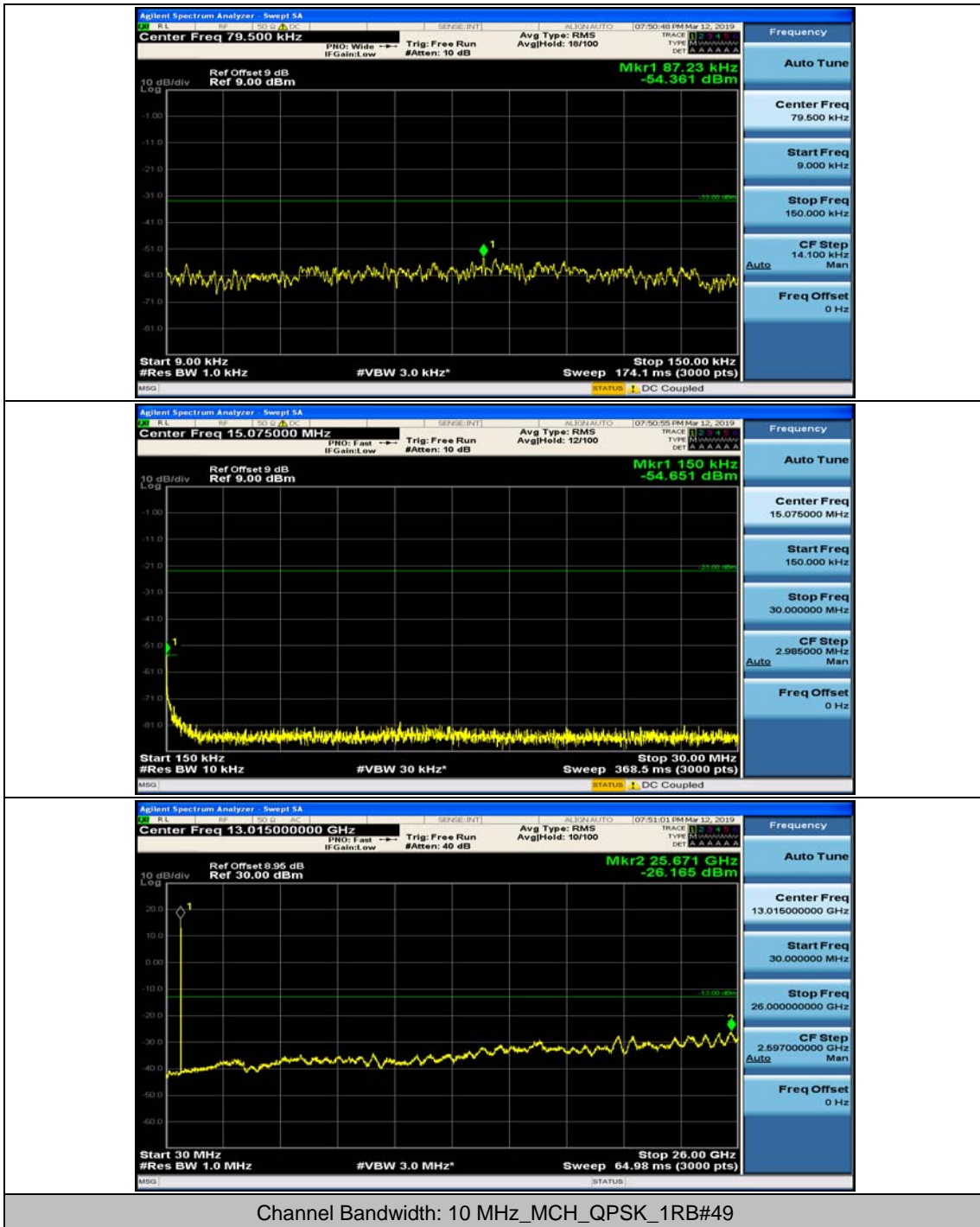


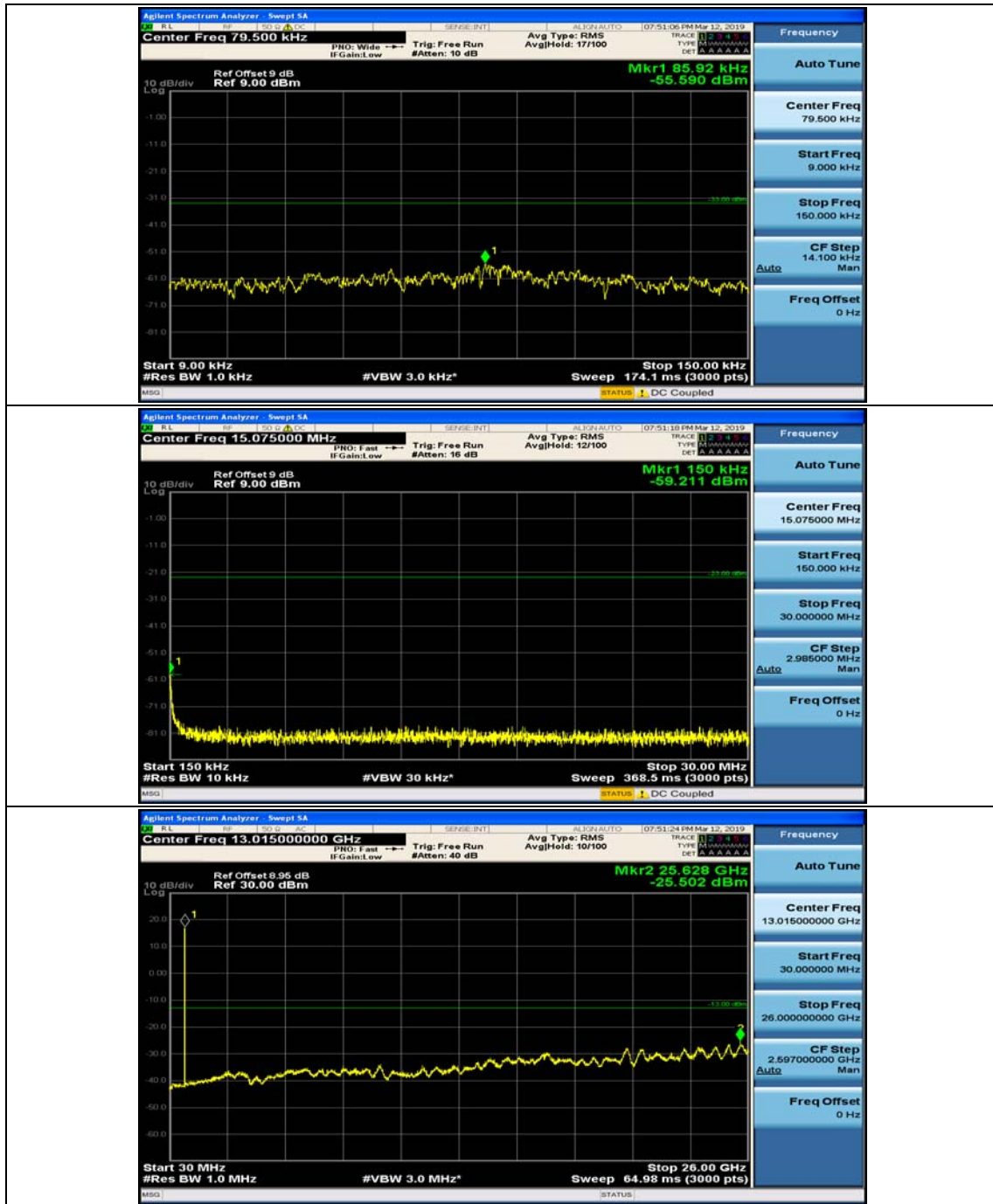
Channel Bandwidth: 10 MHz\_MCH\_QPSK\_1RB#0



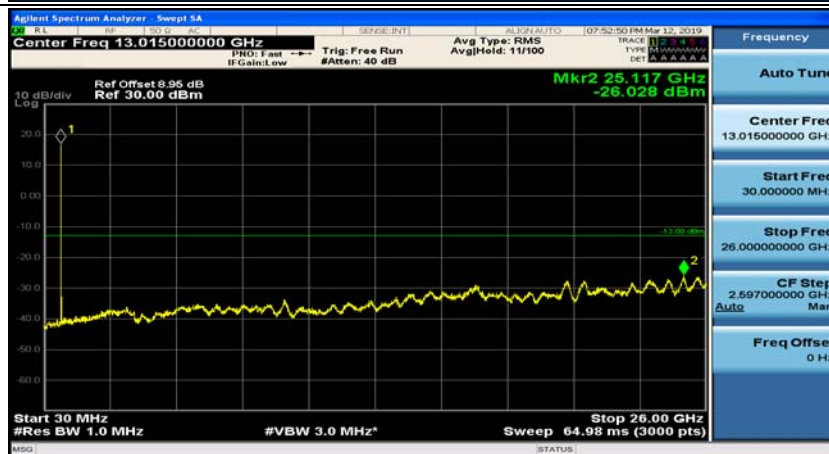
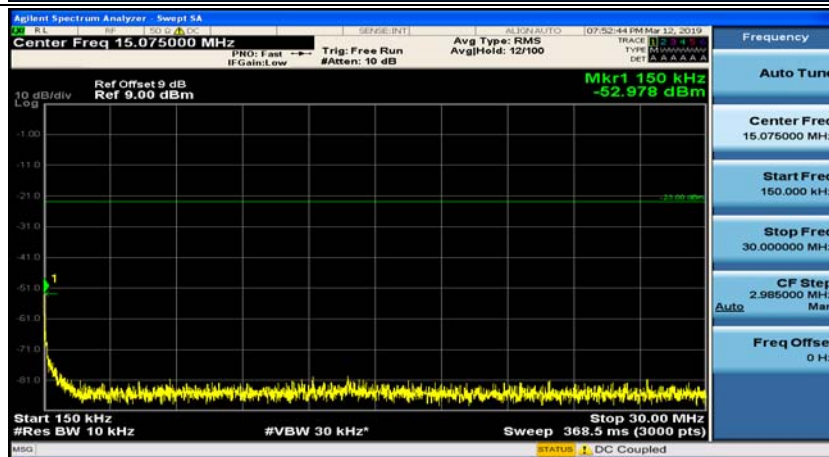
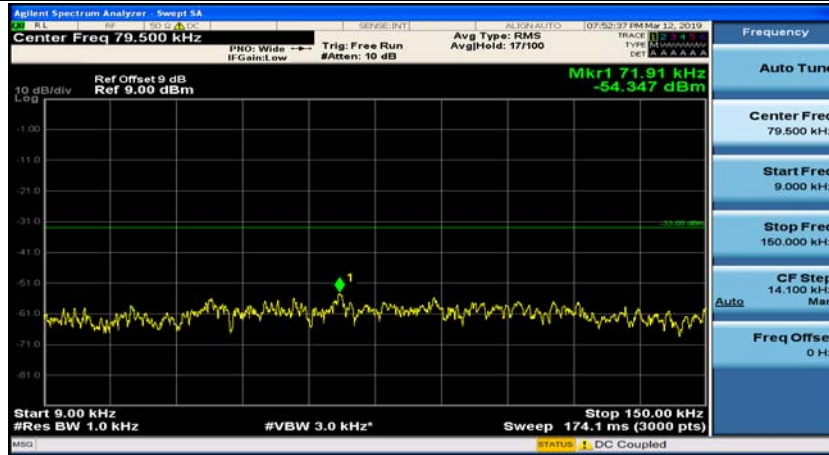
Channel Bandwidth: 10 MHz\_MCH\_QPSK\_1RB#24



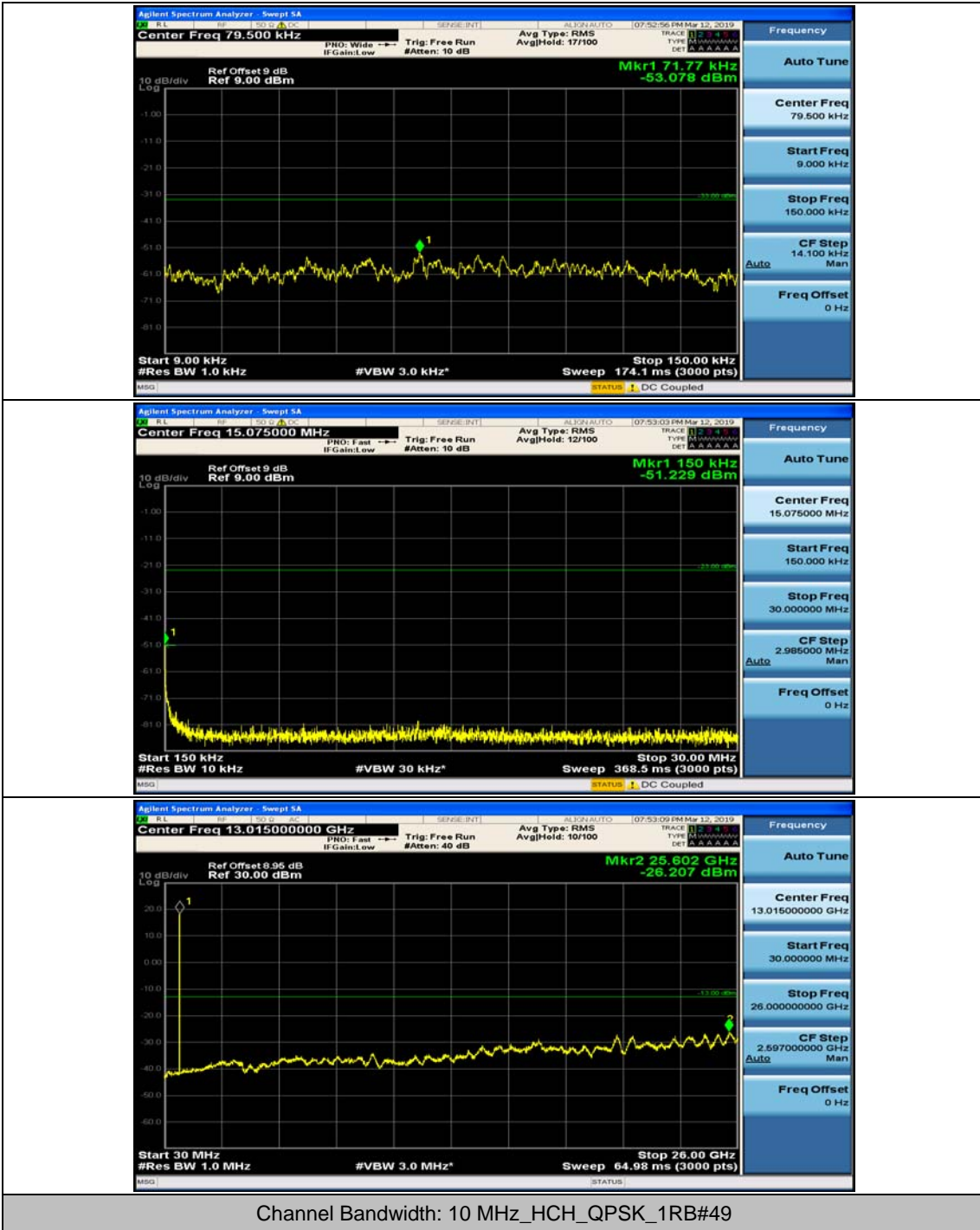


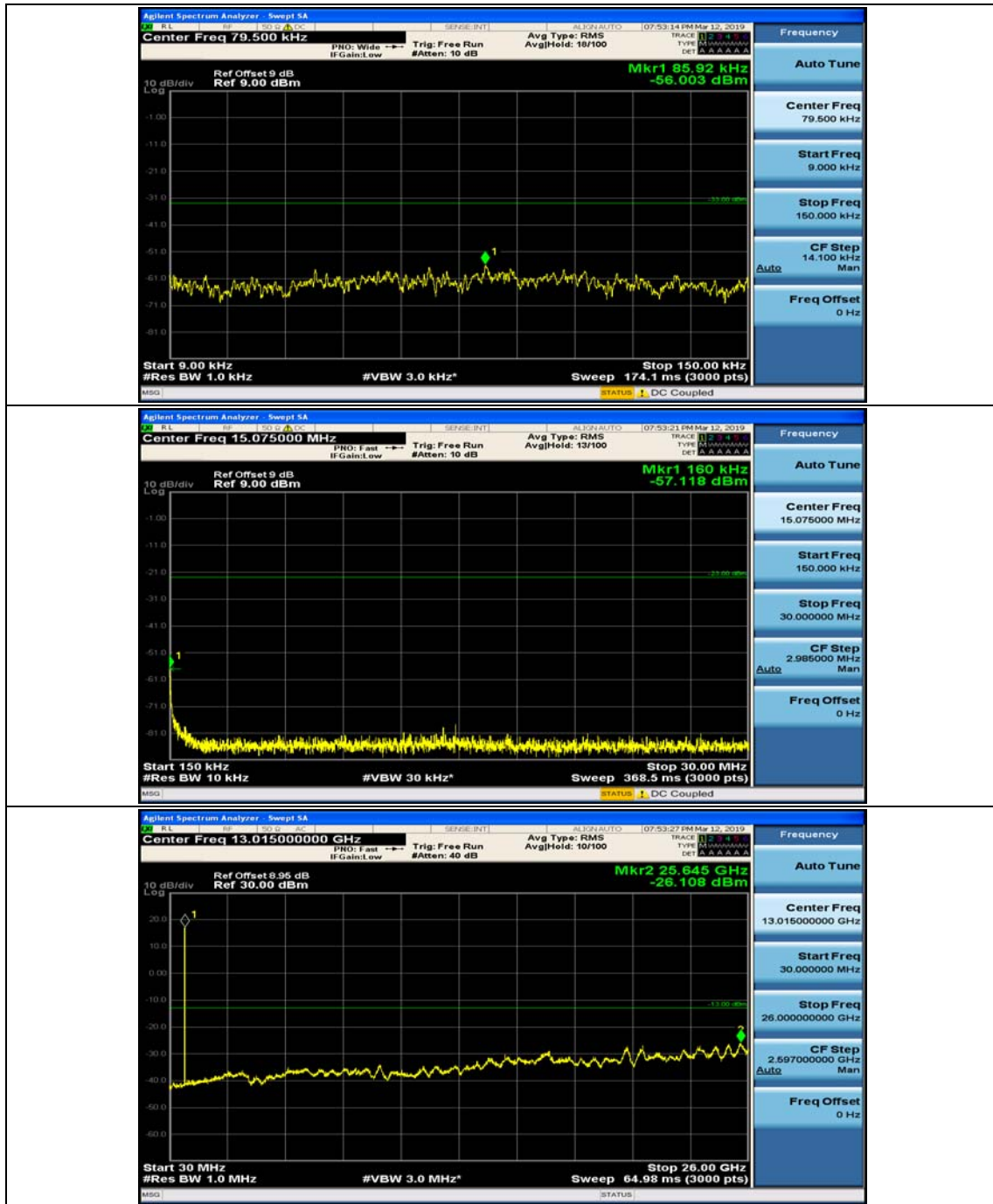


## Channel Bandwidth: 10 MHz\_HCH\_QPSK\_1RB#0



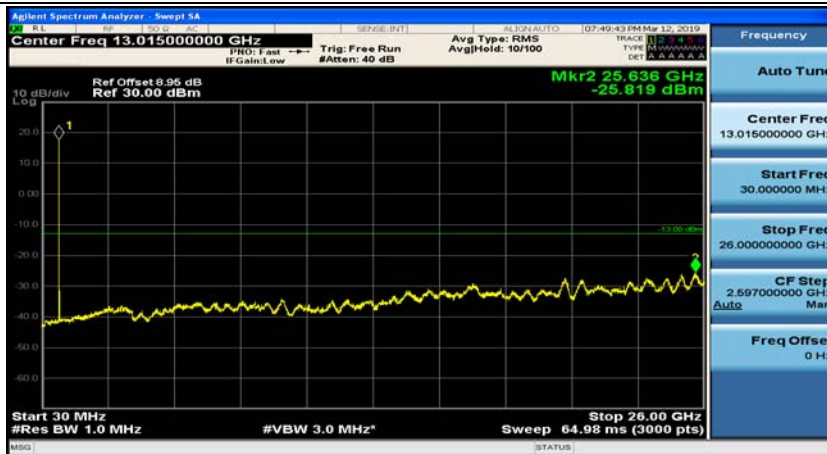
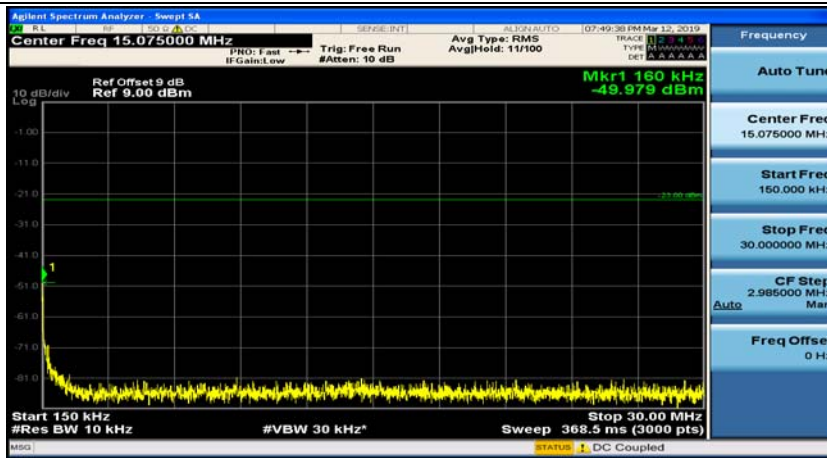
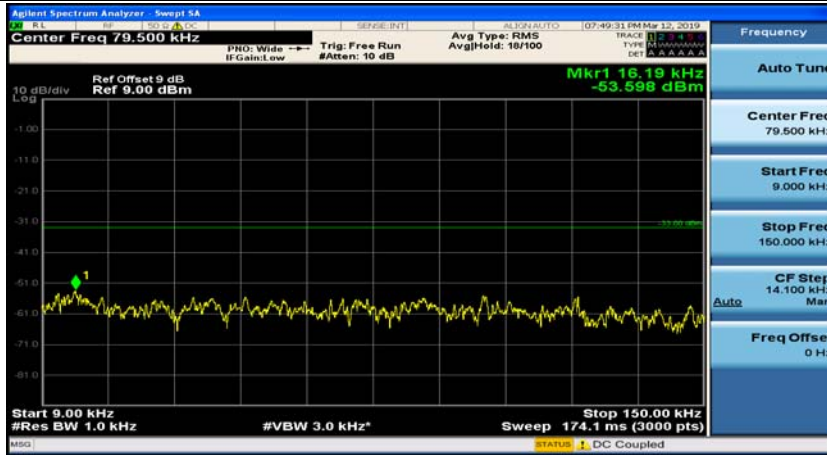
## Channel Bandwidth: 10 MHz\_HCH\_QPSK\_1RB#24



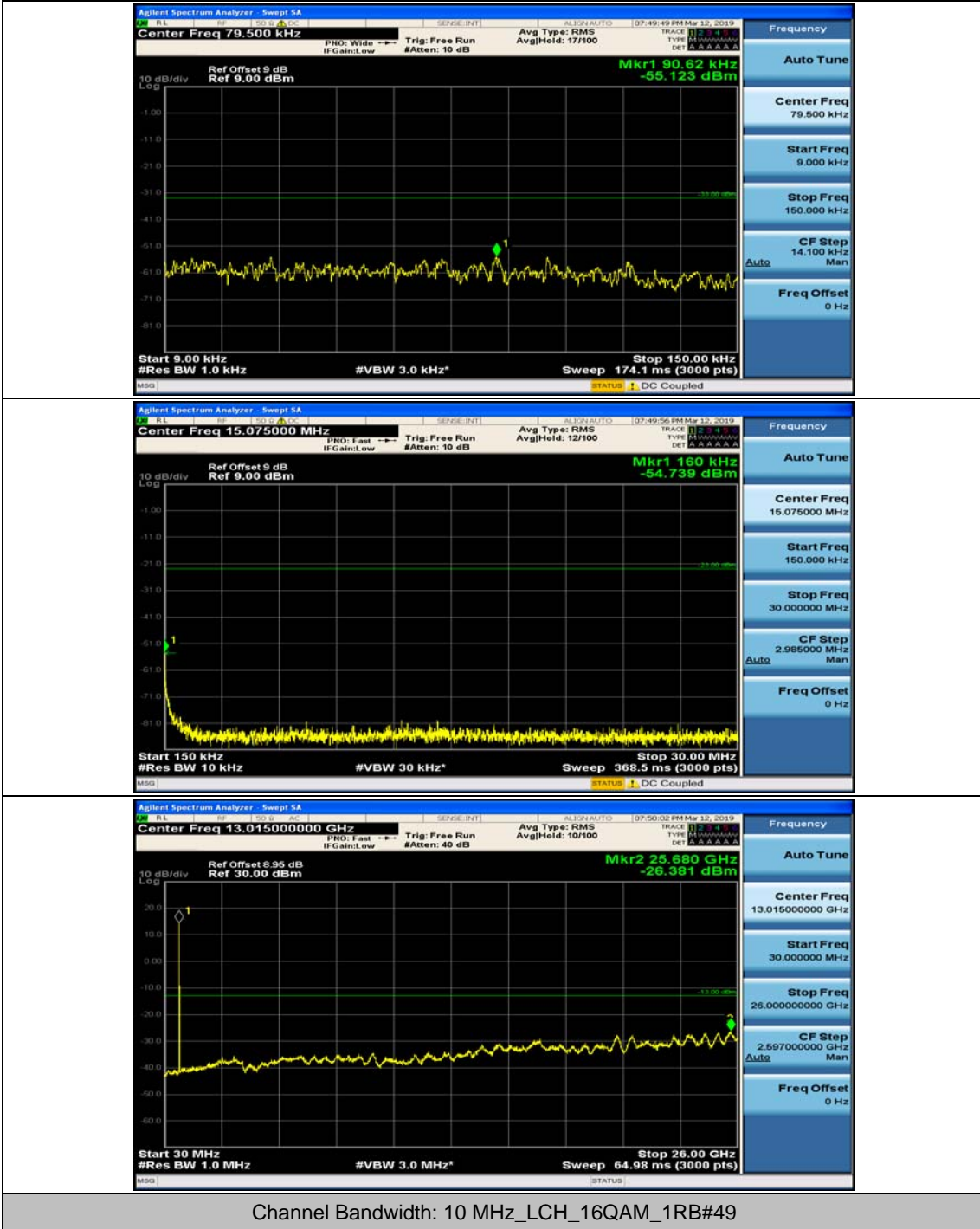


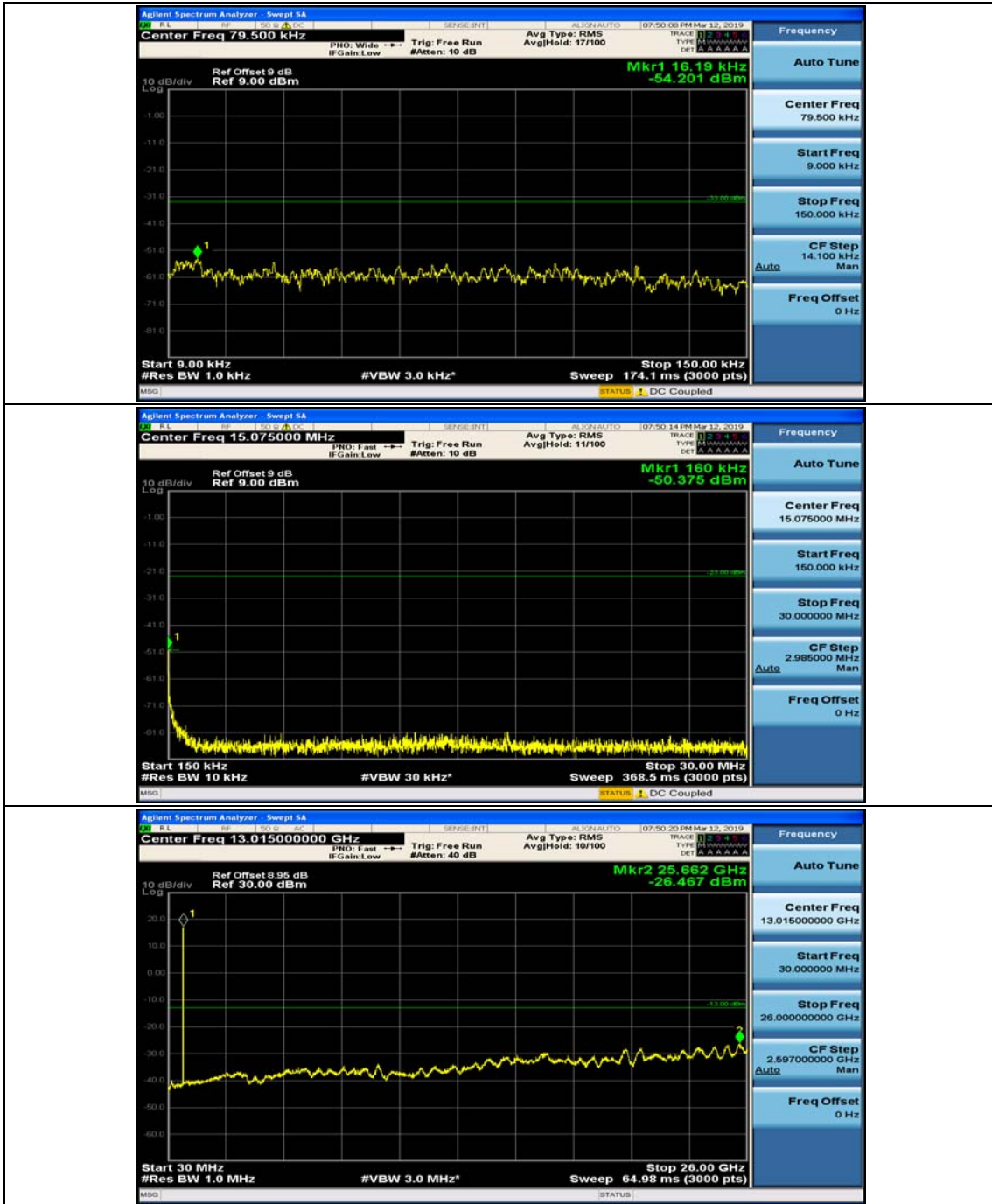


Channel Bandwidth: 10 MHz\_LCH\_16QAM\_1RB#0

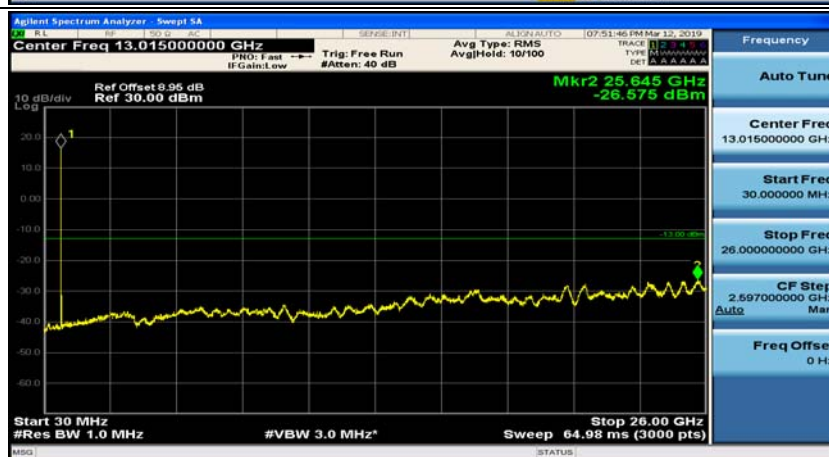
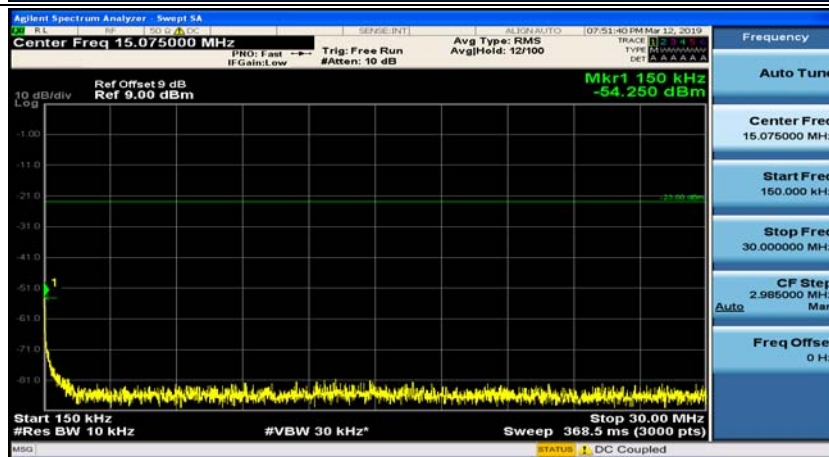
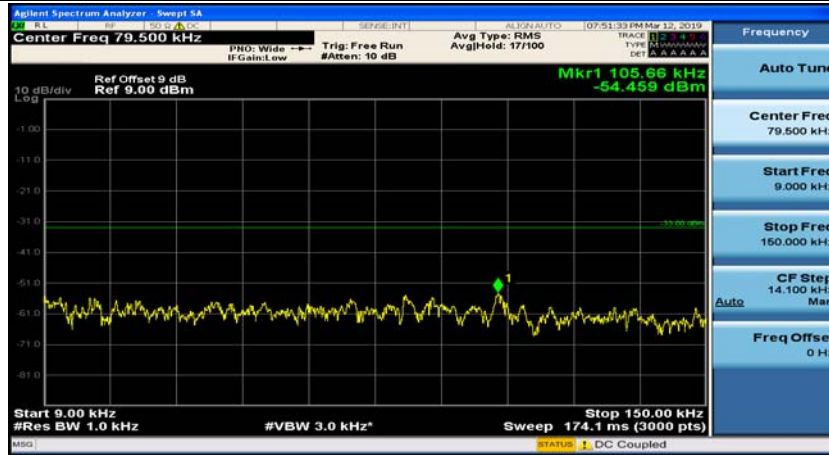


Channel Bandwidth: 10 MHz\_LCH\_16QAM\_1RB#24

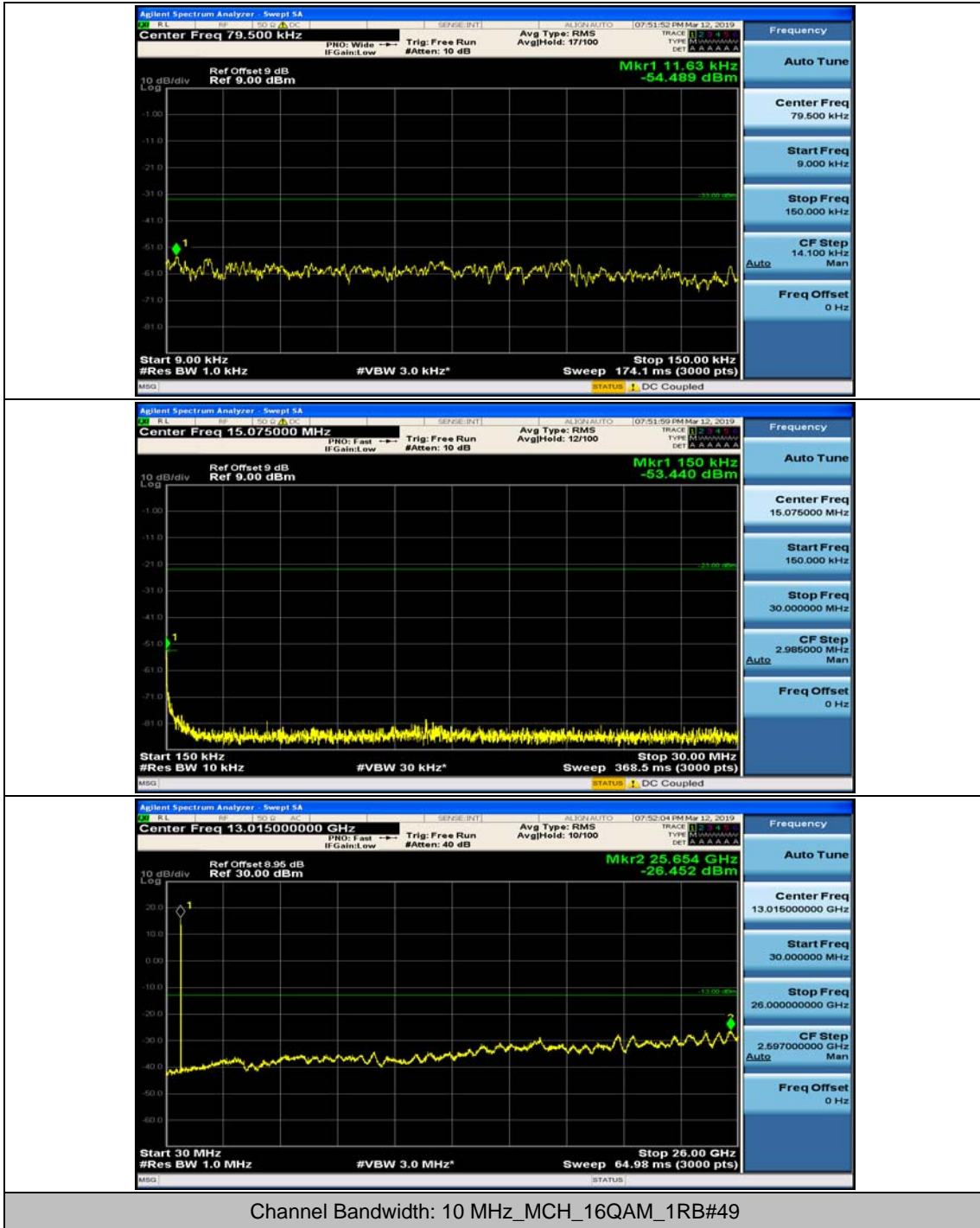




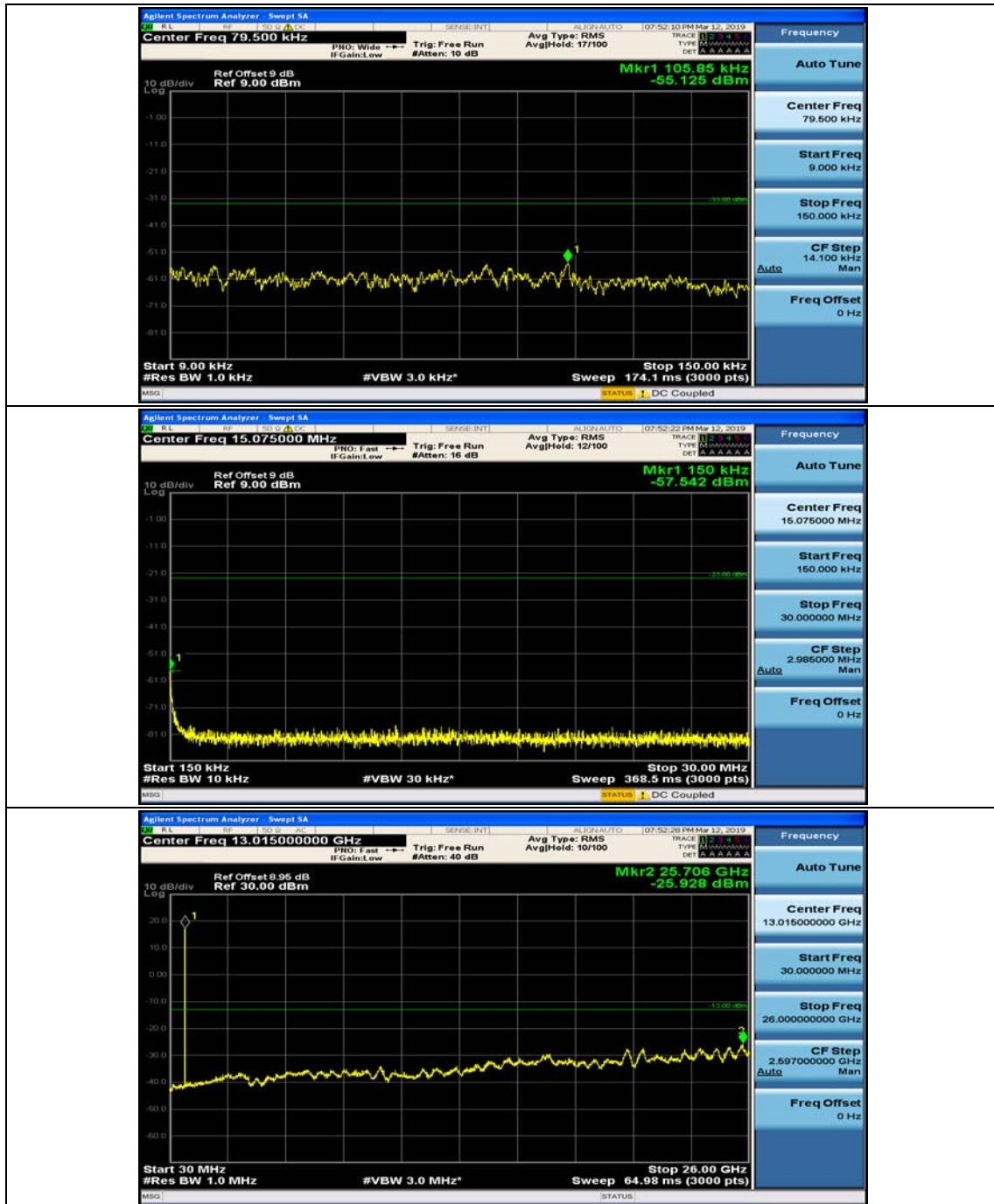
Channel Bandwidth: 10 MHz\_MCH\_16QAM\_1RB#0



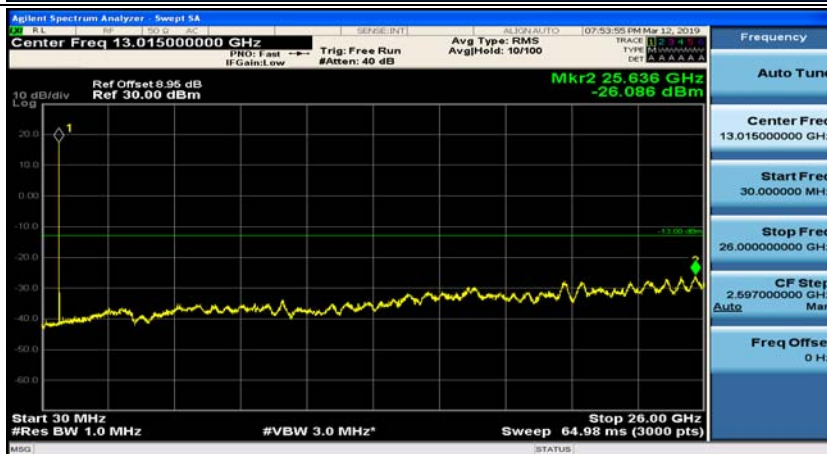
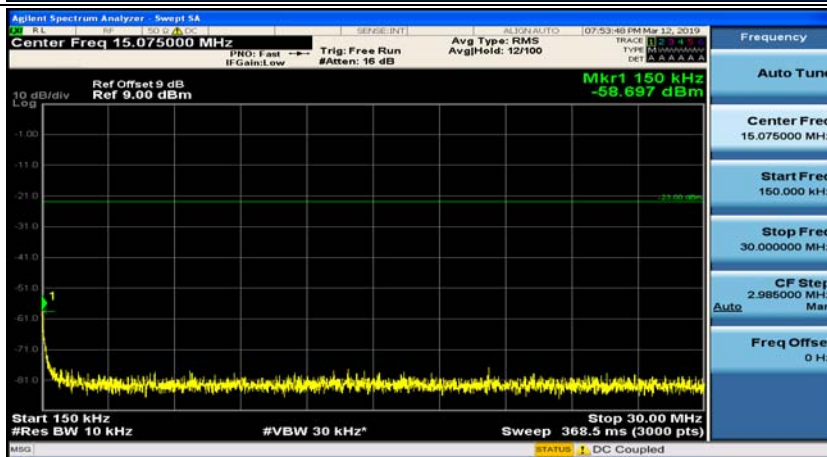
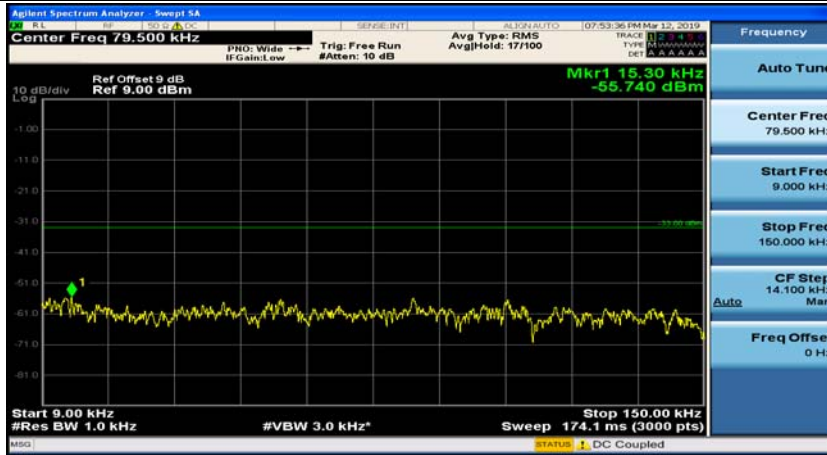
Channel Bandwidth: 10 MHz\_MCH\_16QAM\_1RB#24



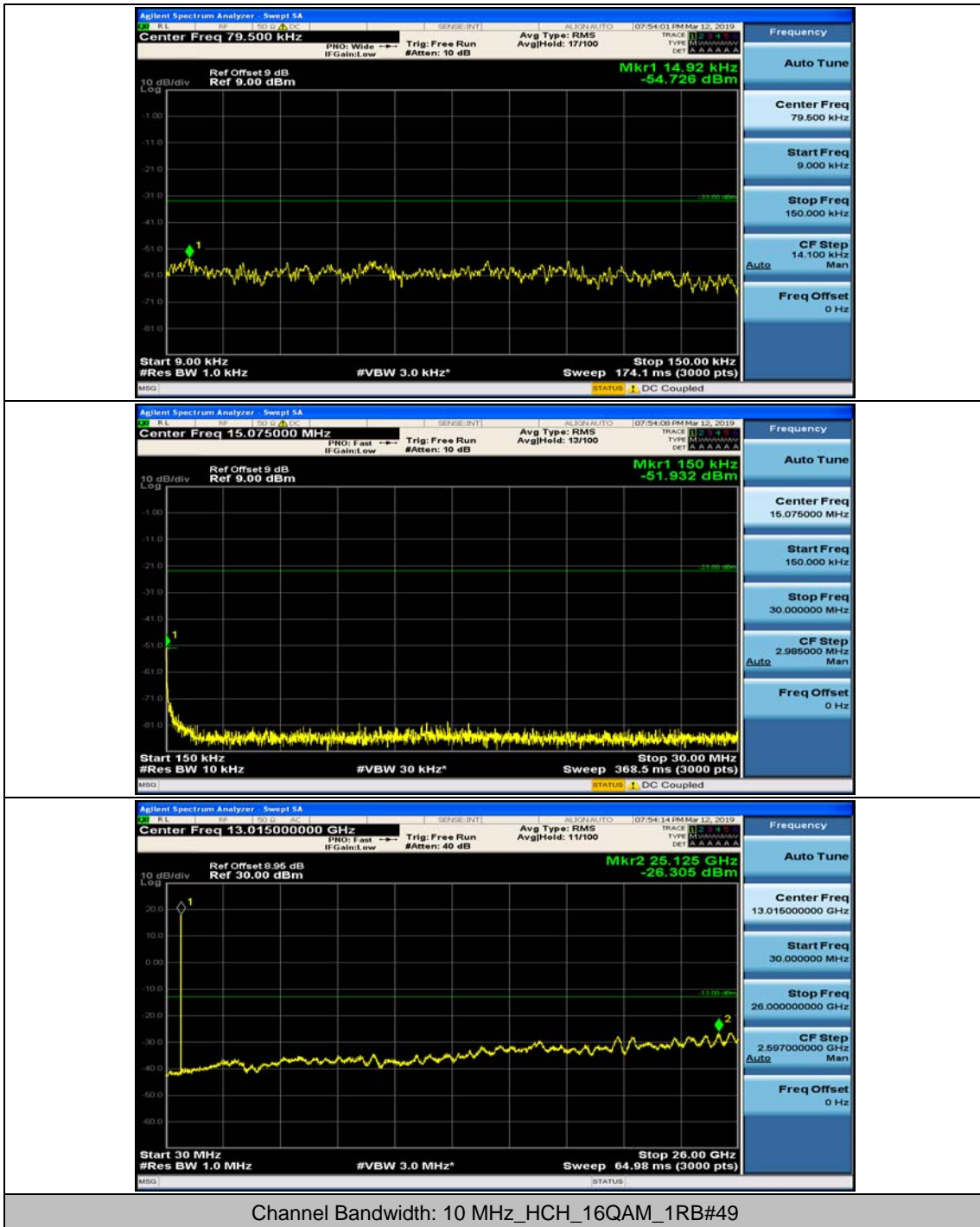


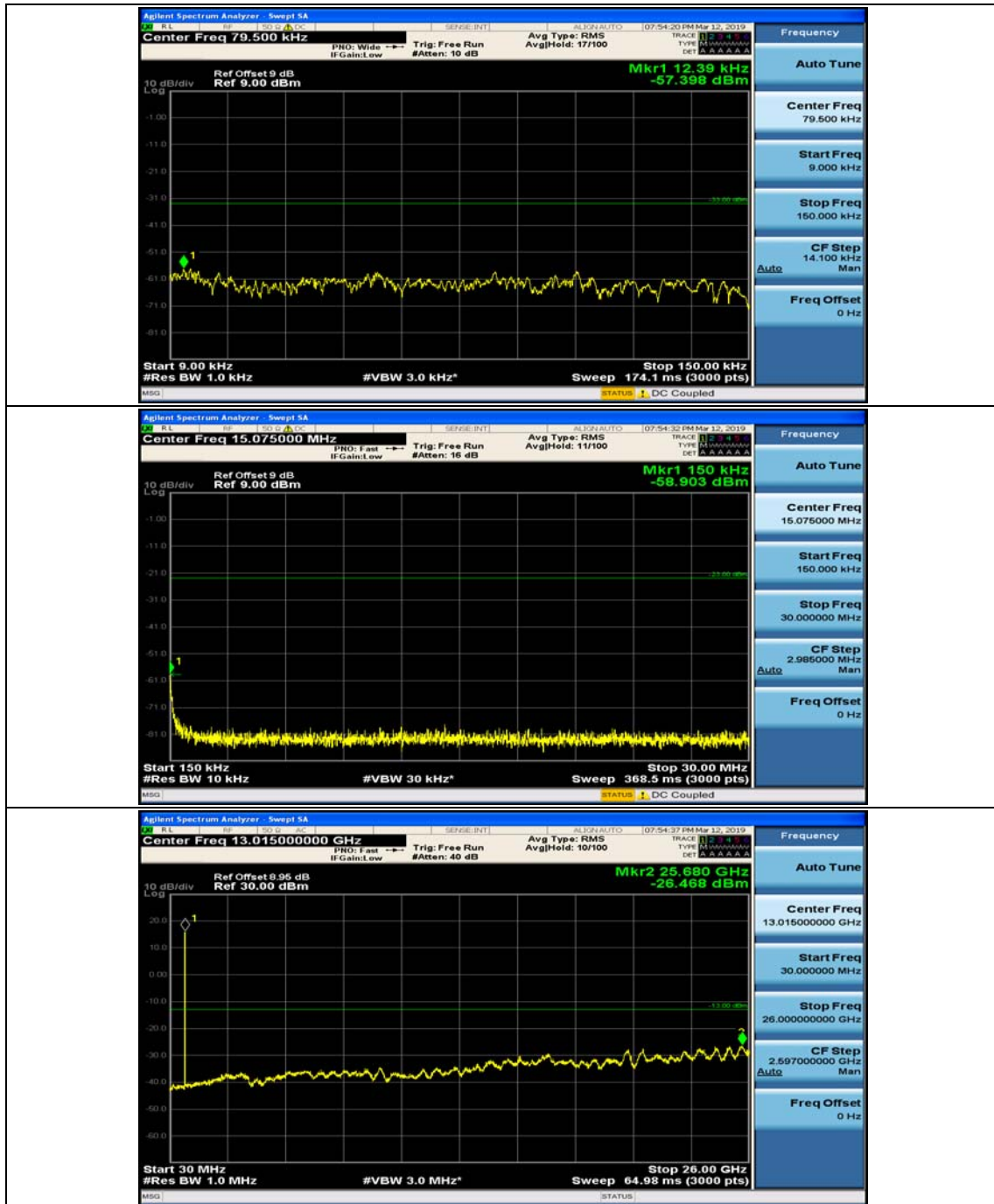


Channel Bandwidth: 10 MHz\_HCH\_16QAM\_1RB#0



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	0.21	0.000297	± 2.5	PASS
		VN	TN	-0.82	-0.001161	± 2.5	PASS
		VH	TN	4.62	0.006539	± 2.5	PASS
	MCH	VL	TN	0.79	0.001113	± 2.5	PASS
		VN	TN	4.69	0.006606	± 2.5	PASS
		VH	TN	2.59	0.003648	± 2.5	PASS
	HCH	VL	TN	4.51	0.006321	± 2.5	PASS
		VN	TN	1.54	0.002158	± 2.5	PASS
		VH	TN	-1	-0.001402	± 2.5	PASS
16QAM	LCH	VL	TN	2.73	0.003864	± 2.5	PASS
		VN	TN	3.2	0.004529	± 2.5	PASS
		VH	TN	1.53	0.002166	± 2.5	PASS
	MCH	VL	TN	-1.49	-0.002099	± 2.5	PASS
		VN	TN	0.95	0.001338	± 2.5	PASS
		VH	TN	0.53	0.000746	± 2.5	PASS
	HCH	VL	TN	2.89	0.004050	± 2.5	PASS
		VN	TN	0.47	0.000659	± 2.5	PASS
		VH	TN	-0.76	-0.001065	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	0.13	0.000184	± 2.5	PASS
		VN	-20	2.18	0.003086	± 2.5	PASS
		VN	-10	0.71	0.001005	± 2.5	PASS
		VN	0	-0.87	-0.001231	± 2.5	PASS
		VN	10	2.5	0.003539	± 2.5	PASS
		VN	20	4.21	0.005959	± 2.5	PASS
		VN	30	0.52	0.000736	± 2.5	PASS
		VN	40	2.15	0.003043	± 2.5	PASS
		VN	50	-0.97	-0.001373	± 2.5	PASS
	MCH	VN	-30	4.54	0.006394	± 2.5	PASS
		VN	-20	1.77	0.002493	± 2.5	PASS



		VN	-10	0.64	0.000901	± 2.5	PASS		
		VN	0	0.65	0.000915	± 2.5	PASS		
		VN	10	3.48	0.004901	± 2.5	PASS		
		VN	20	-1.06	-0.001493	± 2.5	PASS		
		VN	30	-0.87	-0.001225	± 2.5	PASS		
		VN	40	0.13	0.000183	± 2.5	PASS		
		VN	50	3.78	0.005324	± 2.5	PASS		
	HCH	VN	-30	4.98	0.006980	± 2.5	PASS		
		VN	-20	-0.86	-0.001205	± 2.5	PASS		
		VN	-10	4.94	0.006924	± 2.5	PASS		
		VN	0	-1.61	-0.002256	± 2.5	PASS		
		VN	10	4.86	0.006811	± 2.5	PASS		
		VN	20	0.55	0.000771	± 2.5	PASS		
		VN	30	4.7	0.006587	± 2.5	PASS		
		VN	40	4.26	0.005971	± 2.5	PASS		
		VN	50	4.05	0.005676	± 2.5	PASS		
		16QAM	LCH	VN	-30	0.33	0.000467	± 2.5	PASS
				VN	-20	3.04	0.004303	± 2.5	PASS
VN	-10			3.94	0.005577	± 2.5	PASS		
VN	0			-0.36	-0.000510	± 2.5	PASS		
VN	10			3.01	0.004260	± 2.5	PASS		
VN	20			3.6	0.005096	± 2.5	PASS		
VN	30			3.56	0.005039	± 2.5	PASS		
VN	40			1.2	0.001699	± 2.5	PASS		
VN	50			1.82	0.002576	± 2.5	PASS		
MCH	VN		-30	-0.75	-0.001051	± 2.5	PASS		
	VN		-20	2.98	0.004177	± 2.5	PASS		
	VN		-10	2.71	0.003798	± 2.5	PASS		
	VN		0	1.2	0.001682	± 2.5	PASS		
	VN		10	3.89	0.005452	± 2.5	PASS		
	VN		20	3.08	0.004317	± 2.5	PASS		
	VN		30	4.82	0.006755	± 2.5	PASS		
	VN		40	0.29	0.000406	± 2.5	PASS		
	VN		50	2.16	0.003027	± 2.5	PASS		
HCH	VN		-30	3.31	0.004639	± 2.5	PASS		
	VN		-20	3.38	0.004737	± 2.5	PASS		
	VN		-10	1.31	0.001836	± 2.5	PASS		
	VN		0	3.16	0.004429	± 2.5	PASS		
	VN		10	-0.29	-0.000406	± 2.5	PASS		
	VN		20	1.39	0.001948	± 2.5	PASS		
	VN		30	-0.22	-0.000308	± 2.5	PASS		

		VN	40	-0.66	-0.000925	± 2.5	PASS
		VN	50	1.34	0.001878	± 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	-0.4	-0.000564	± 2.5	PASS
		VN	TN	2.58	0.003639	± 2.5	PASS
		VH	TN	1.79	0.002525	± 2.5	PASS
	MCH	VL	TN	0	0.000000	± 2.5	PASS
		VN	TN	3.7	0.005211	± 2.5	PASS
		VH	TN	2.72	0.003831	± 2.5	PASS
	HCH	VL	TN	2.7	0.003797	± 2.5	PASS
		VN	TN	0.48	0.000675	± 2.5	PASS
		VH	TN	1.5	0.002110	± 2.5	PASS
16QAM	LCH	VL	TN	3.24	0.004570	± 2.5	PASS
		VN	TN	-0.34	-0.000480	± 2.5	PASS
		VH	TN	0.82	0.001157	± 2.5	PASS
	MCH	VL	TN	0.89	0.001254	± 2.5	PASS
		VN	TN	0.3	0.000423	± 2.5	PASS
		VH	TN	2.07	0.002915	± 2.5	PASS
	HCH	VL	TN	2.65	0.003727	± 2.5	PASS
		VN	TN	1.61	0.002264	± 2.5	PASS
		VH	TN	2.37	0.003333	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
16QAM	LCH	VN	-30	-1.15	-0.001622	± 2.5	PASS
		VN	-20	2.59	0.003653	± 2.5	PASS
		VN	-10	1.96	0.002764	± 2.5	PASS
		VN	0	-1.52	-0.002144	± 2.5	PASS
		VN	10	3.64	0.005134	± 2.5	PASS
		VN	20	-0.07	-0.000099	± 2.5	PASS
		VN	30	-1.45	-0.002045	± 2.5	PASS
		VN	40	2.37	0.003343	± 2.5	PASS
		VN	50	-0.41	-0.000578	± 2.5	PASS
	MCH	VN	-30	-0.95	-0.001338	± 2.5	PASS
		VN	-20	2.8	0.003944	± 2.5	PASS
		VN	-10	0.68	0.000958	± 2.5	PASS

		VN	0	1.69	0.002380	± 2.5	PASS		
		VN	10	-1.02	-0.001437	± 2.5	PASS		
		VN	20	2.06	0.002901	± 2.5	PASS		
		VN	30	0.1	0.000141	± 2.5	PASS		
		VN	40	2.34	0.003296	± 2.5	PASS		
		VN	50	1.82	0.002563	± 2.5	PASS		
	HCH	VN	-30	1.45	0.002039	± 2.5	PASS		
		VN	-20	1.1	0.001547	± 2.5	PASS		
		VN	-10	4.03	0.005668	± 2.5	PASS		
		VN	0	0.43	0.000605	± 2.5	PASS		
		VN	10	2.6	0.003657	± 2.5	PASS		
		VN	20	-0.87	-0.001224	± 2.5	PASS		
		VN	30	0.43	0.000605	± 2.5	PASS		
		VN	40	2.47	0.003474	± 2.5	PASS		
		VN	50	2.51	0.003530	± 2.5	PASS		
		QPSK	LCH	VN	-30	2.8	0.003944	± 2.5	PASS
				VN	-20	-0.01	-0.000014	± 2.5	PASS
				VN	-10	4.41	0.006211	± 2.5	PASS
VN	0			2.41	0.003394	± 2.5	PASS		
VN	10			-0.24	-0.000338	± 2.5	PASS		
VN	20			1.4	0.001972	± 2.5	PASS		
VN	30			3.4	0.004789	± 2.5	PASS		
VN	40			4.53	0.006380	± 2.5	PASS		
VN	50			2.06	0.002901	± 2.5	PASS		
MCH	VN		-30	-0.74	-0.001041	± 2.5	PASS		
	VN		-20	-1.96	-0.002757	± 2.5	PASS		
	VN		-10	0	0.000000	± 2.5	PASS		
	VN		0	3.58	0.005035	± 2.5	PASS		
	VN		10	3.52	0.004951	± 2.5	PASS		
	VN		20	3.5	0.004923	± 2.5	PASS		
	VN		30	-1.19	-0.001674	± 2.5	PASS		
	VN		40	-1.1	-0.001547	± 2.5	PASS		
	VN		50	0.52	0.000731	± 2.5	PASS		
HCH	VN		-30	0.94	0.001322	± 2.5	PASS		
	VN		-20	4.57	0.006428	± 2.5	PASS		
	VN		-10	-0.65	-0.000914	± 2.5	PASS		
	VN		0	1.88	0.002644	± 2.5	PASS		
	VN		10	3.67	0.005162	± 2.5	PASS		
	VN		20	1.21	0.001702	± 2.5	PASS		
	VN		30	-0.27	-0.000380	± 2.5	PASS		
	VN		40	0.53	0.000745	± 2.5	PASS		

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		VN	50	-0.25	-0.000352	± 2.5	PASS
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