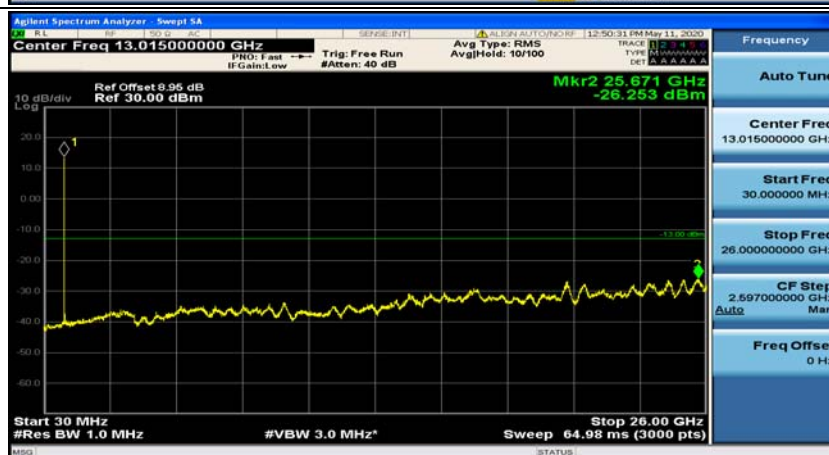
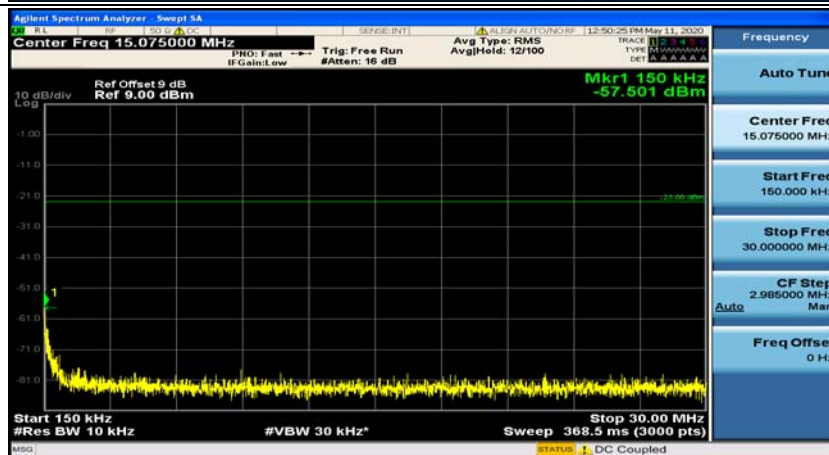
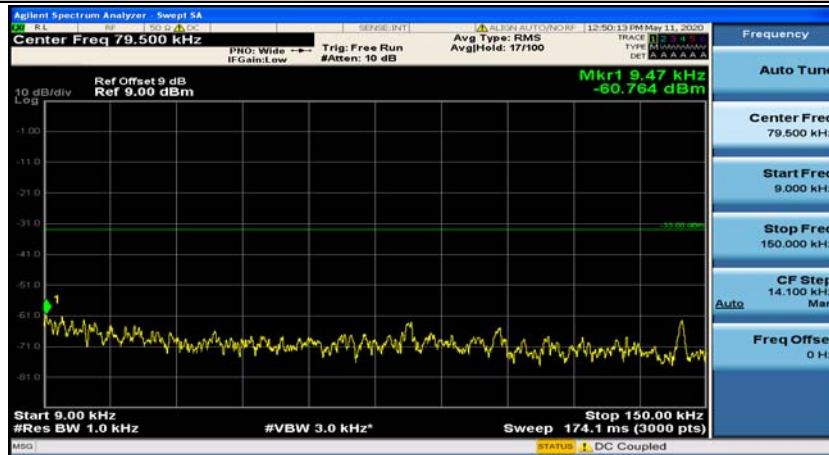
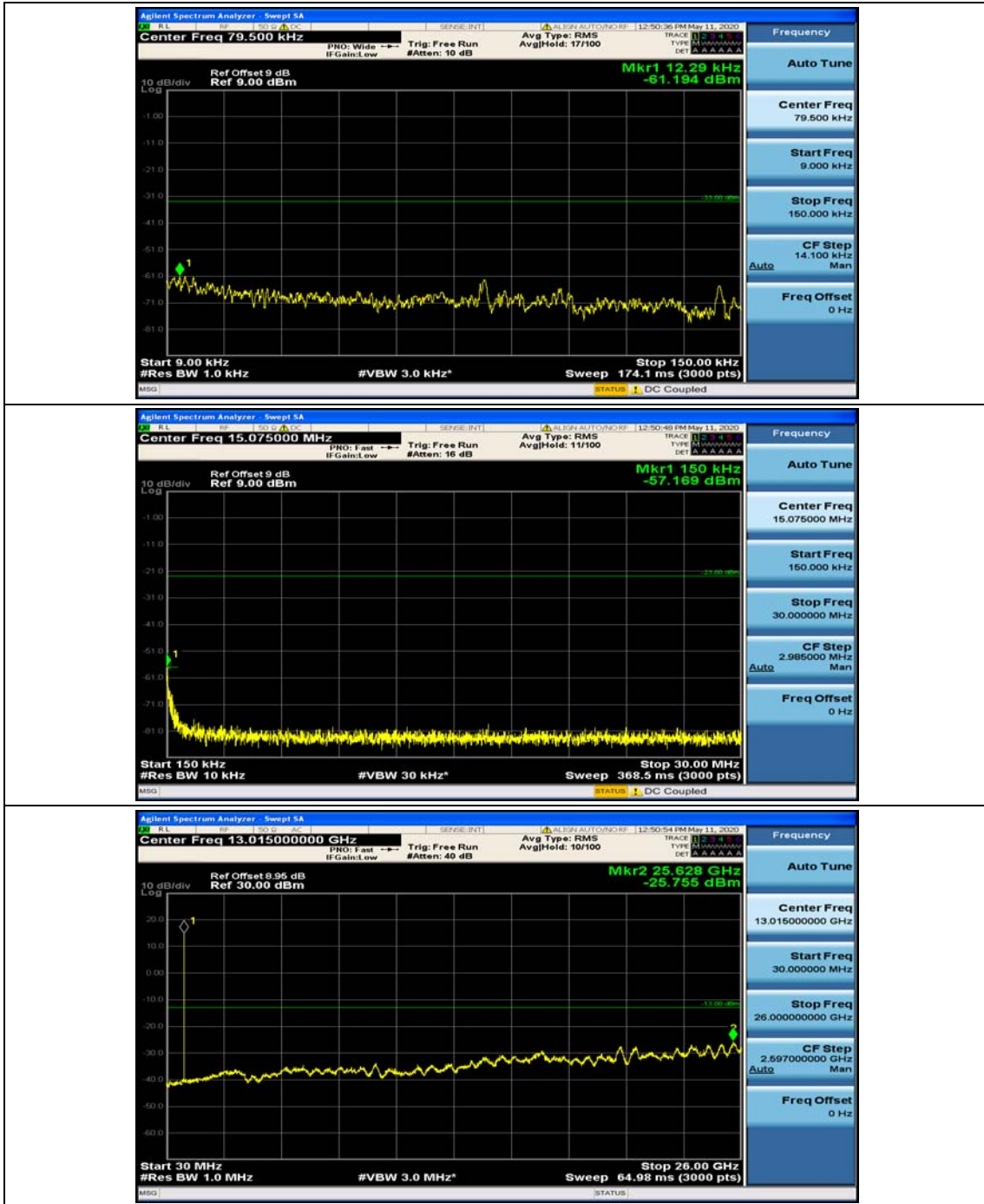




(Channel Bandwidth: 3 MHz)\_MCH\_16QAM\_1RB#0

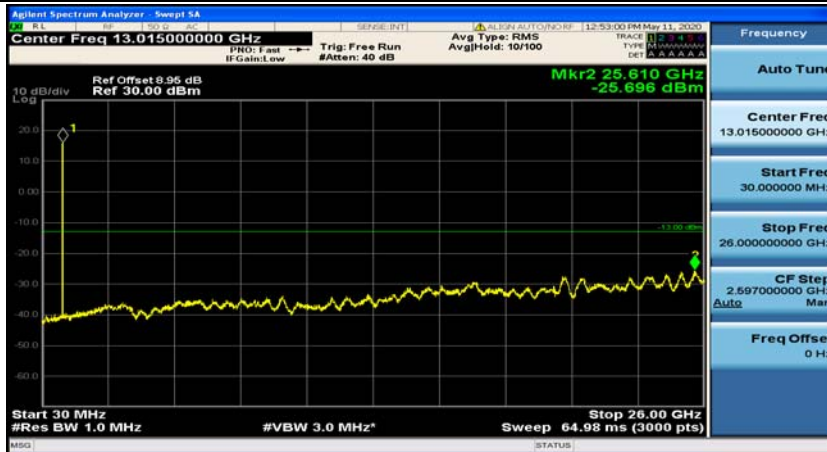
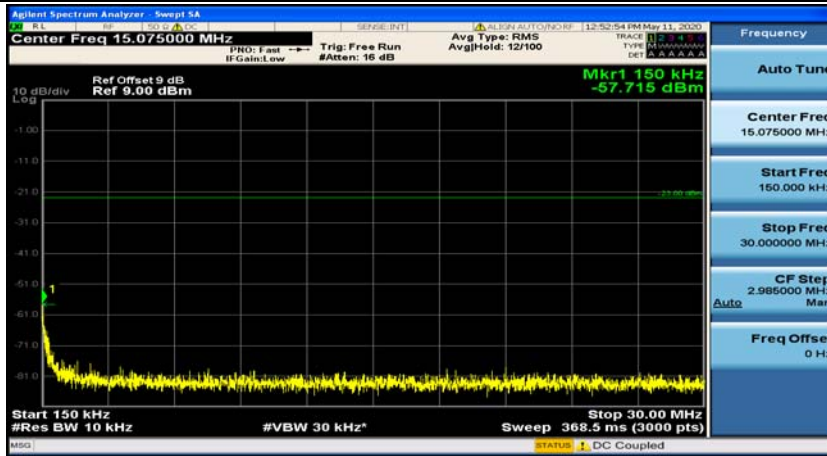
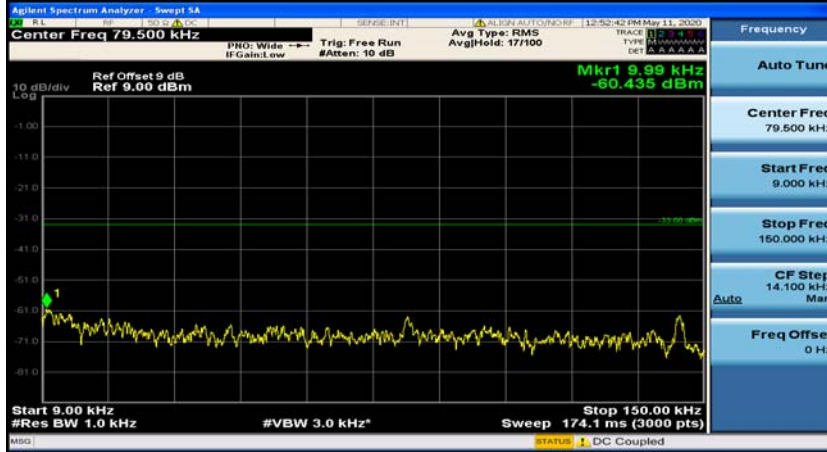


(Channel Bandwidth: 3 MHz)\_MCH\_16QAM\_1RB#7

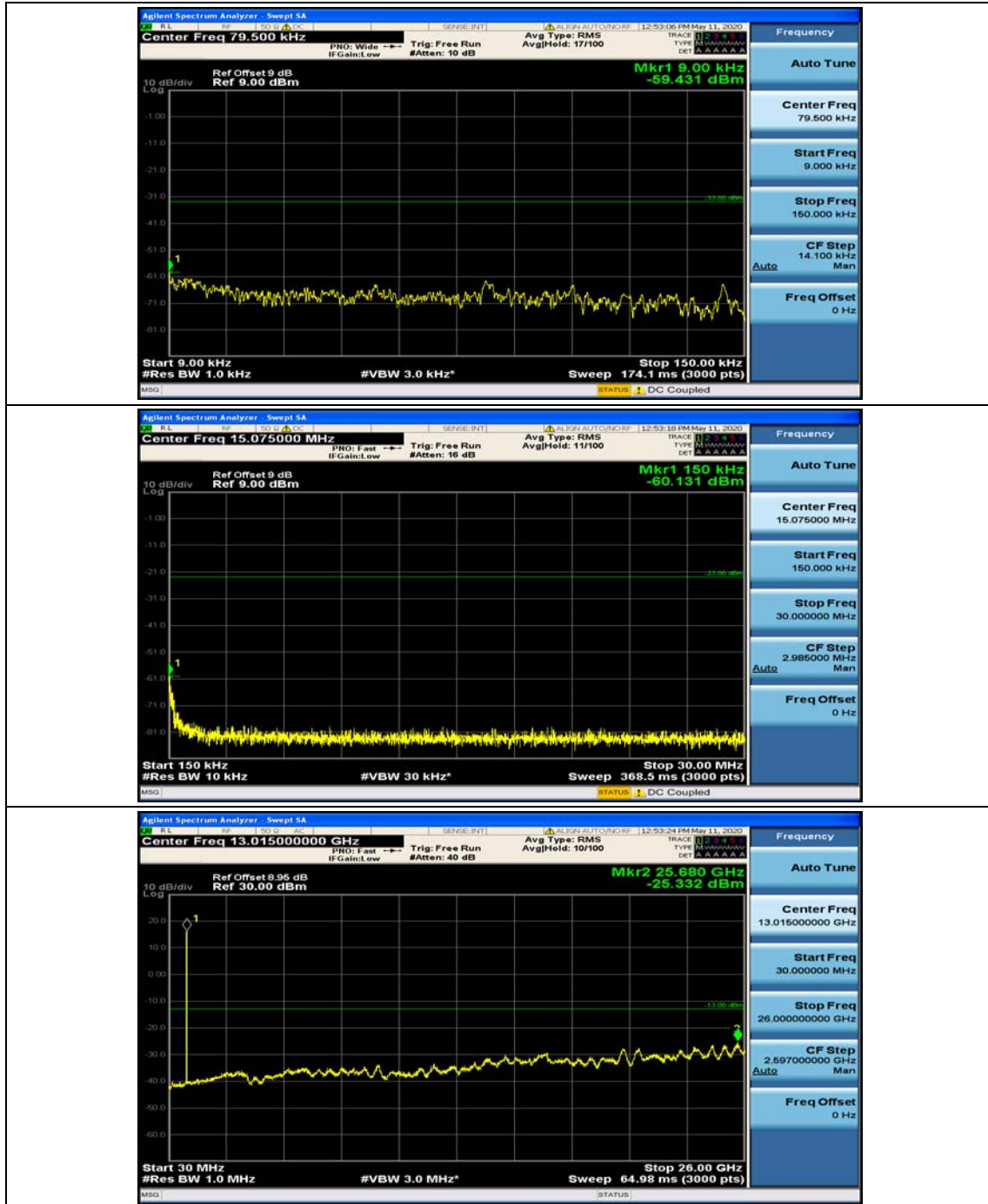




(Channel Bandwidth: 3 MHz)\_HCH\_16QAM\_1RB#0

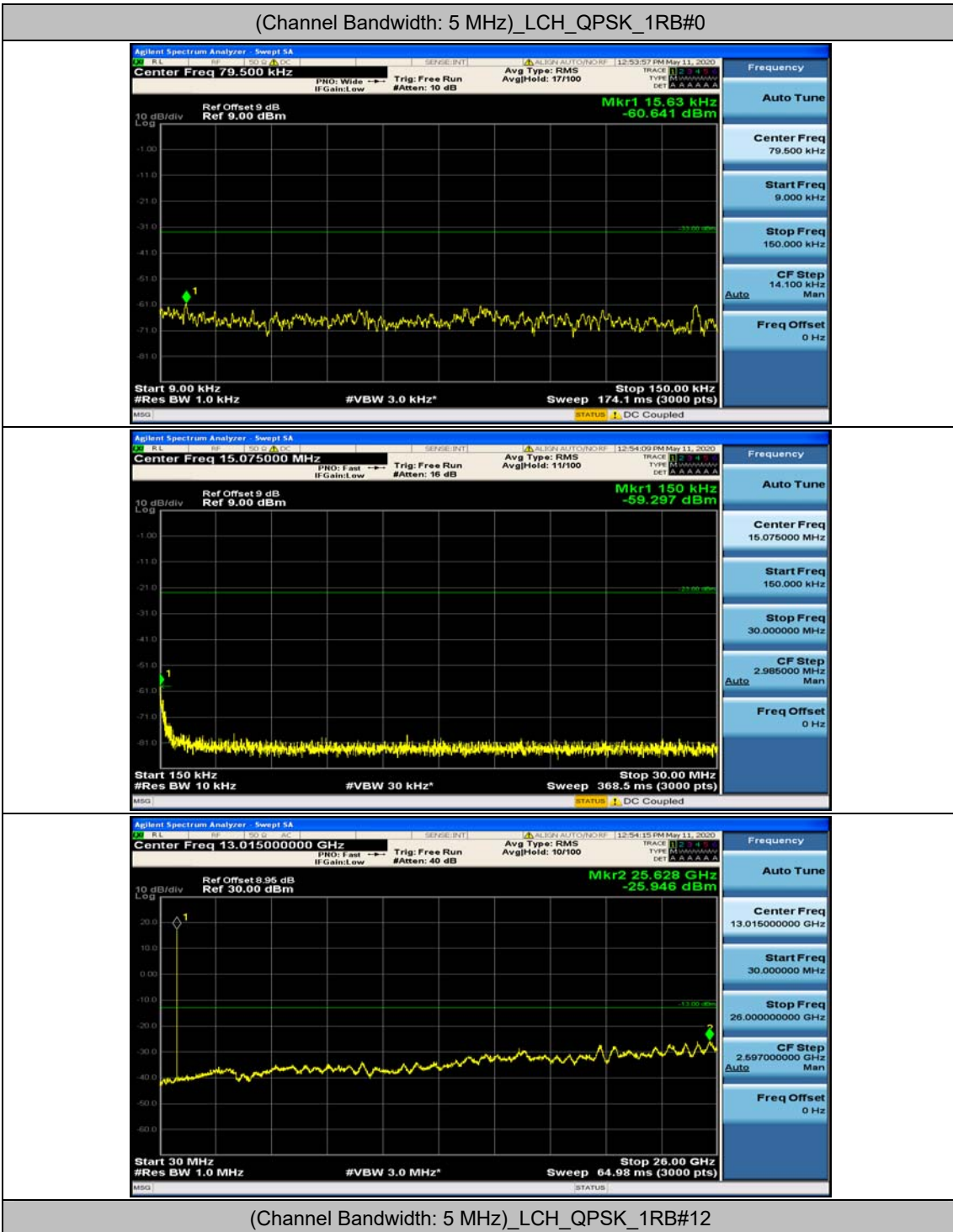


(Channel Bandwidth: 3 MHz)\_HCH\_16QAM\_1RB#7

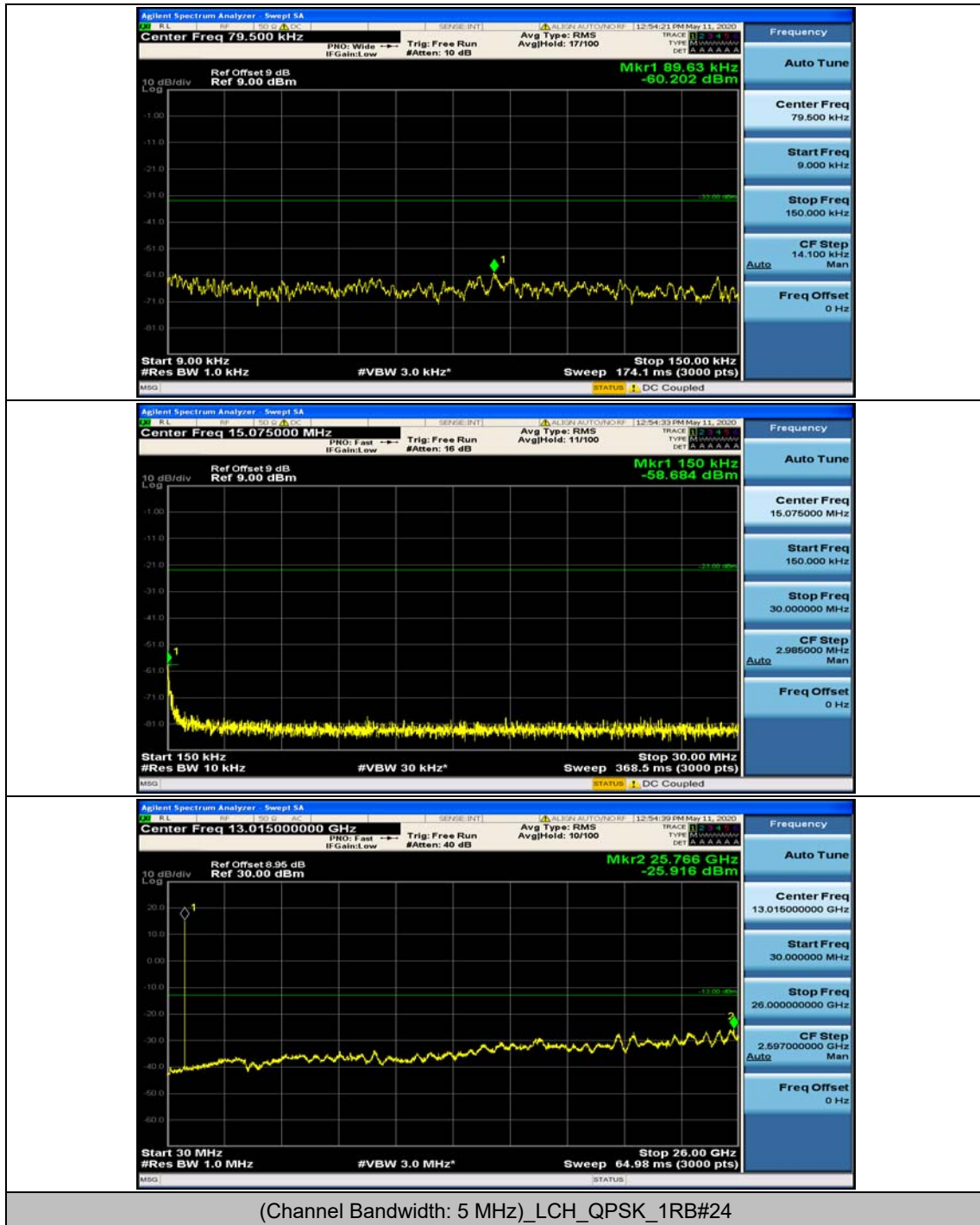


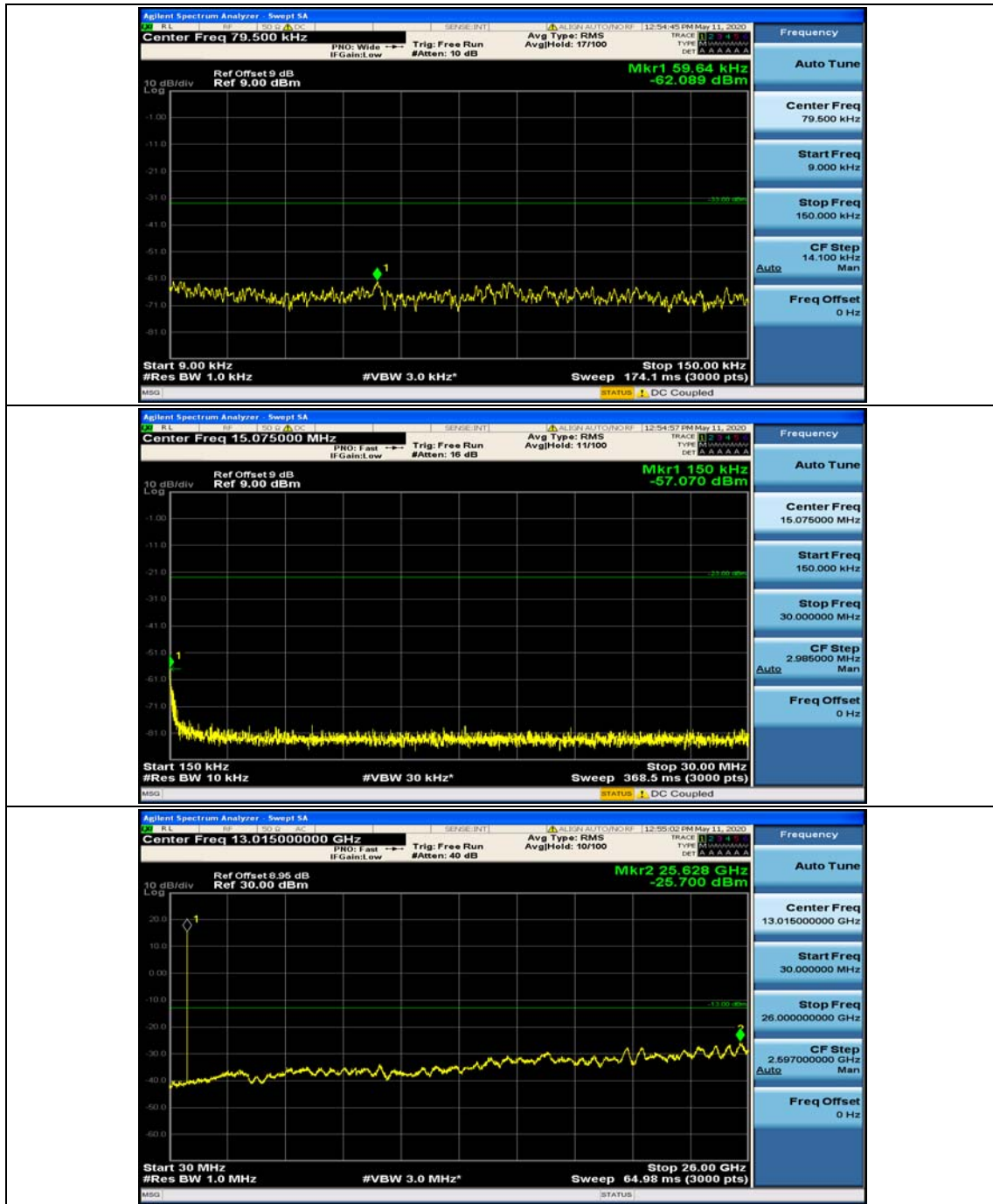


**Channel Bandwidth: 5 MHz**



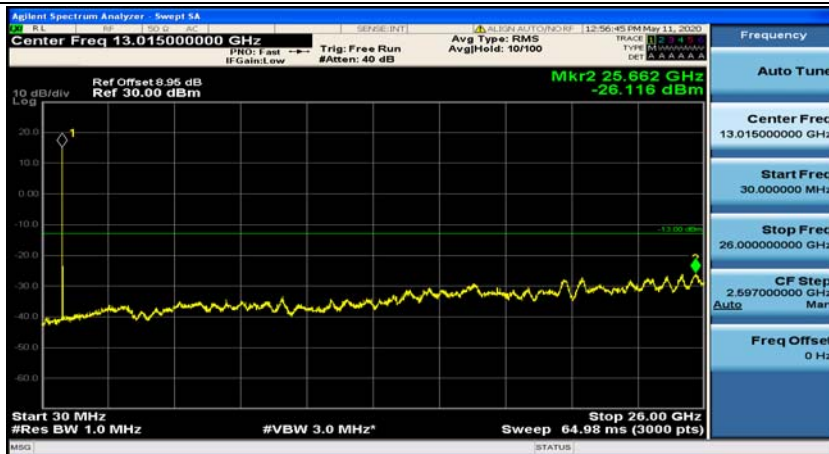
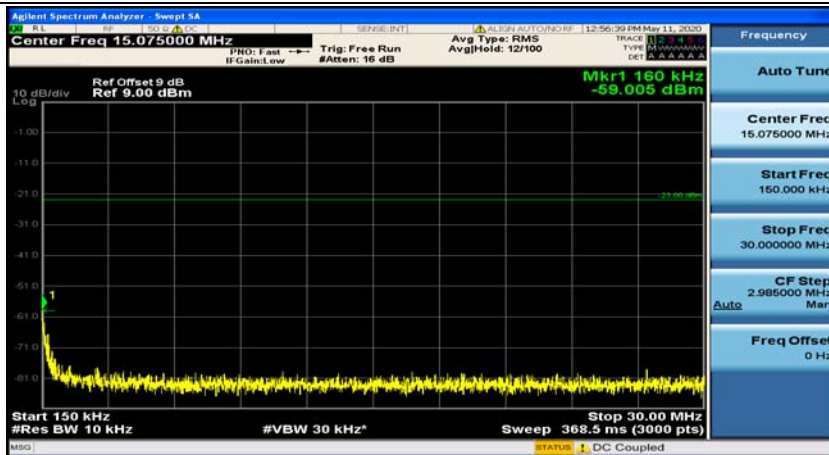
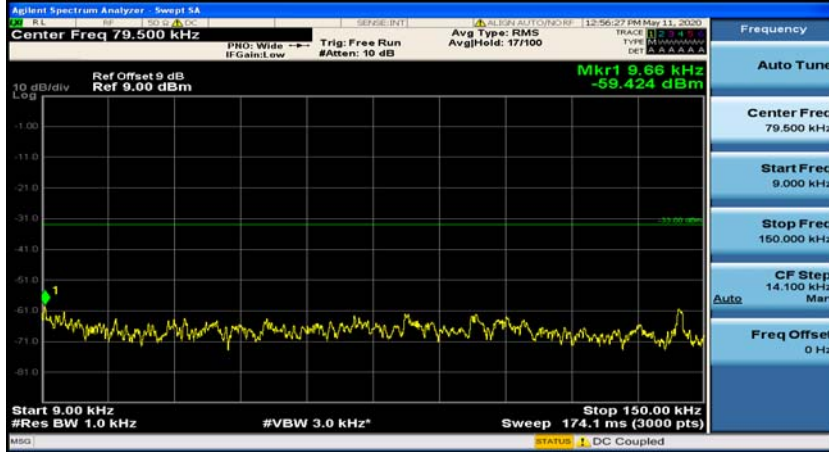






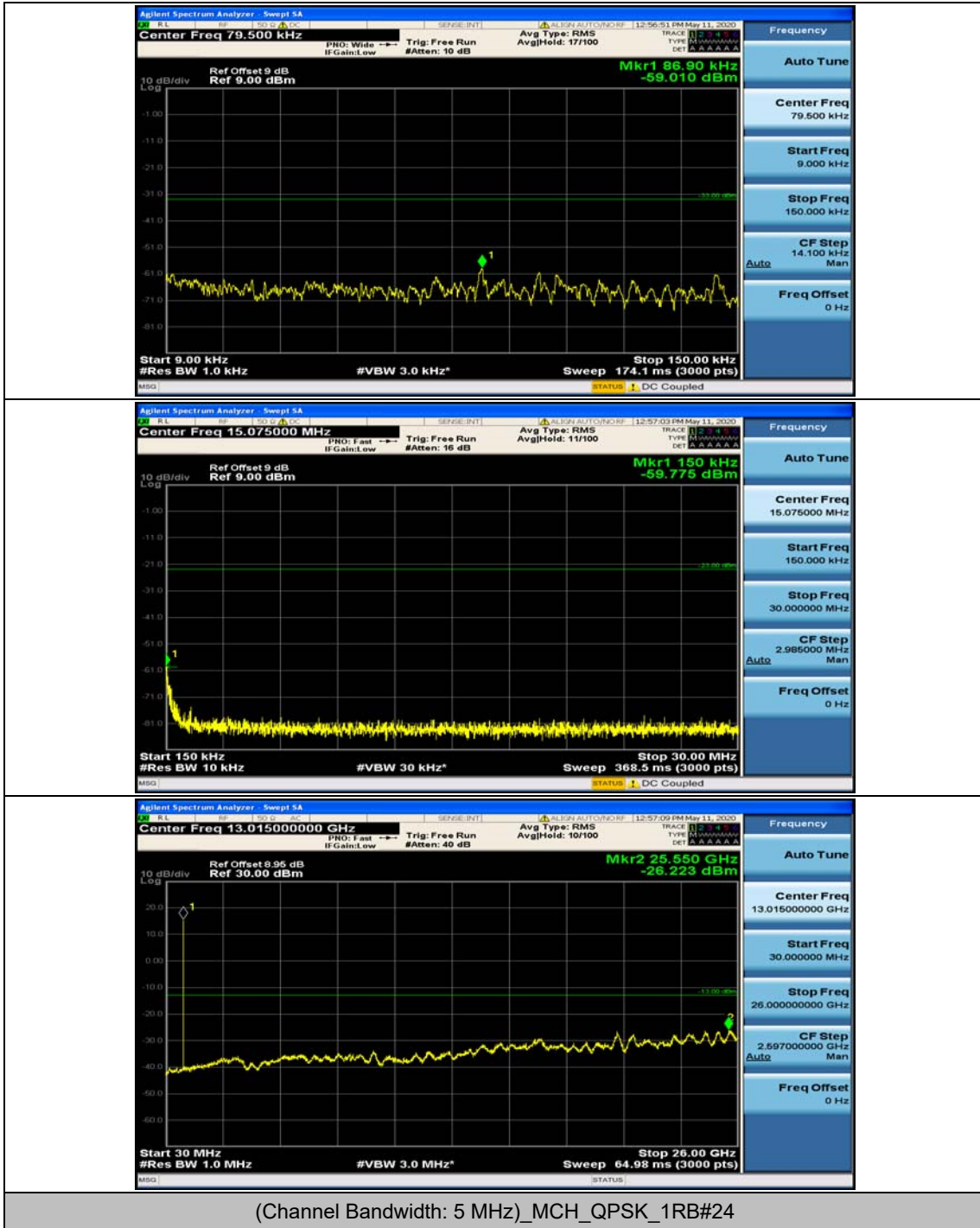


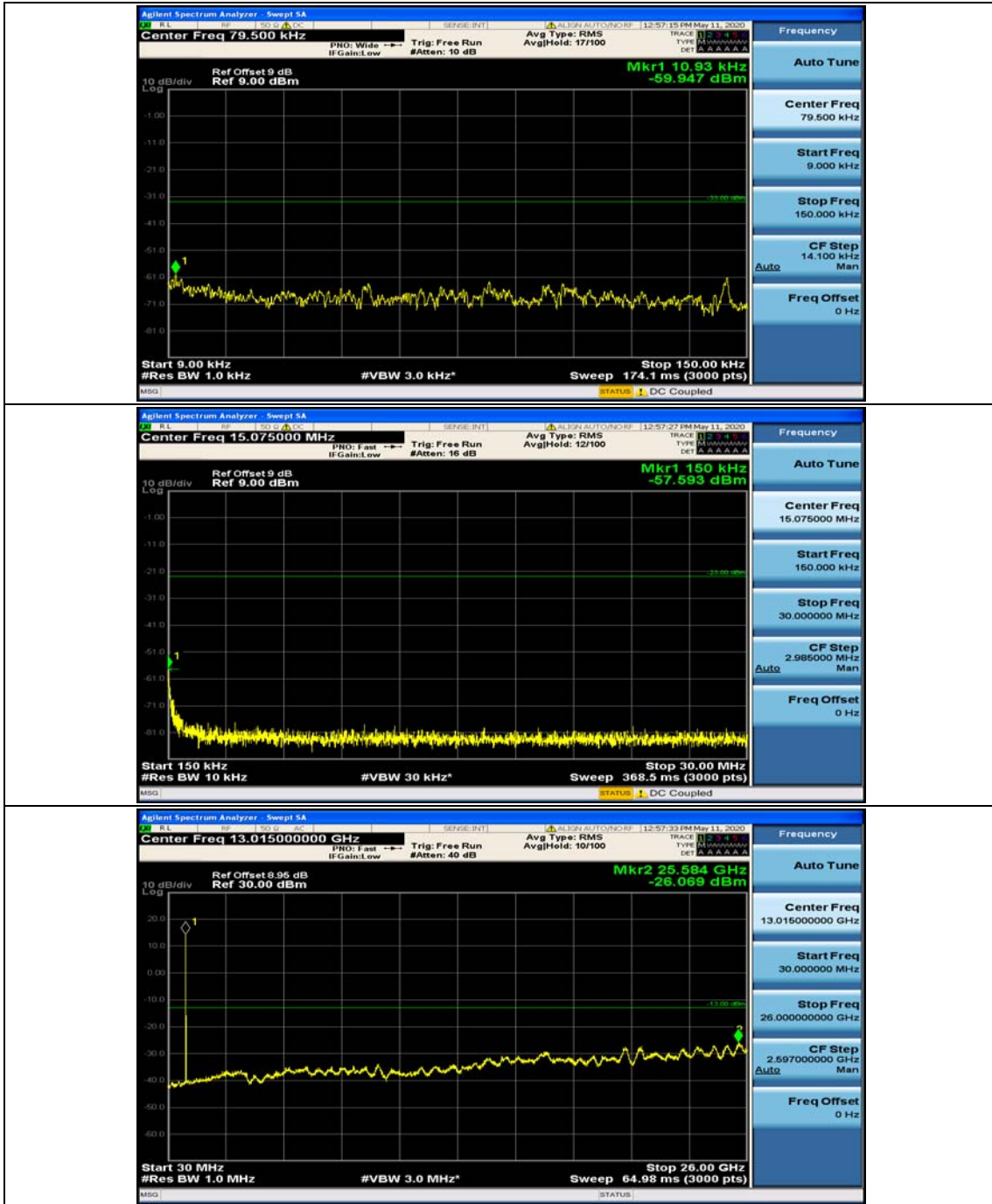
(Channel Bandwidth: 5 MHz)\_MCH\_QPSK\_1RB#0



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

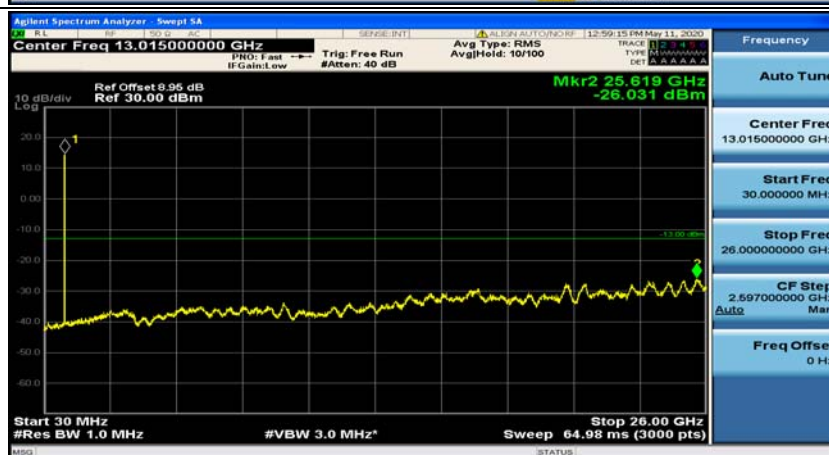
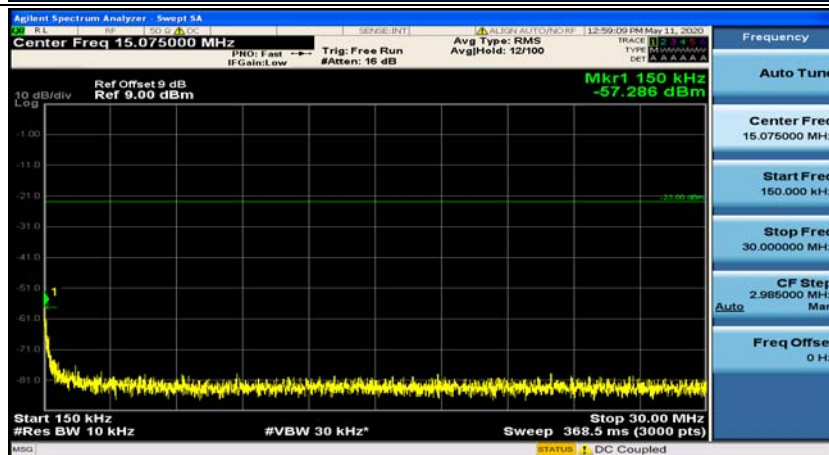
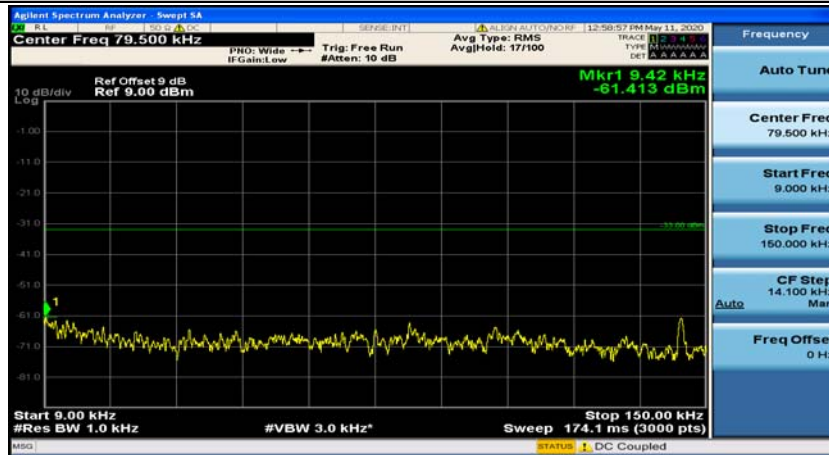




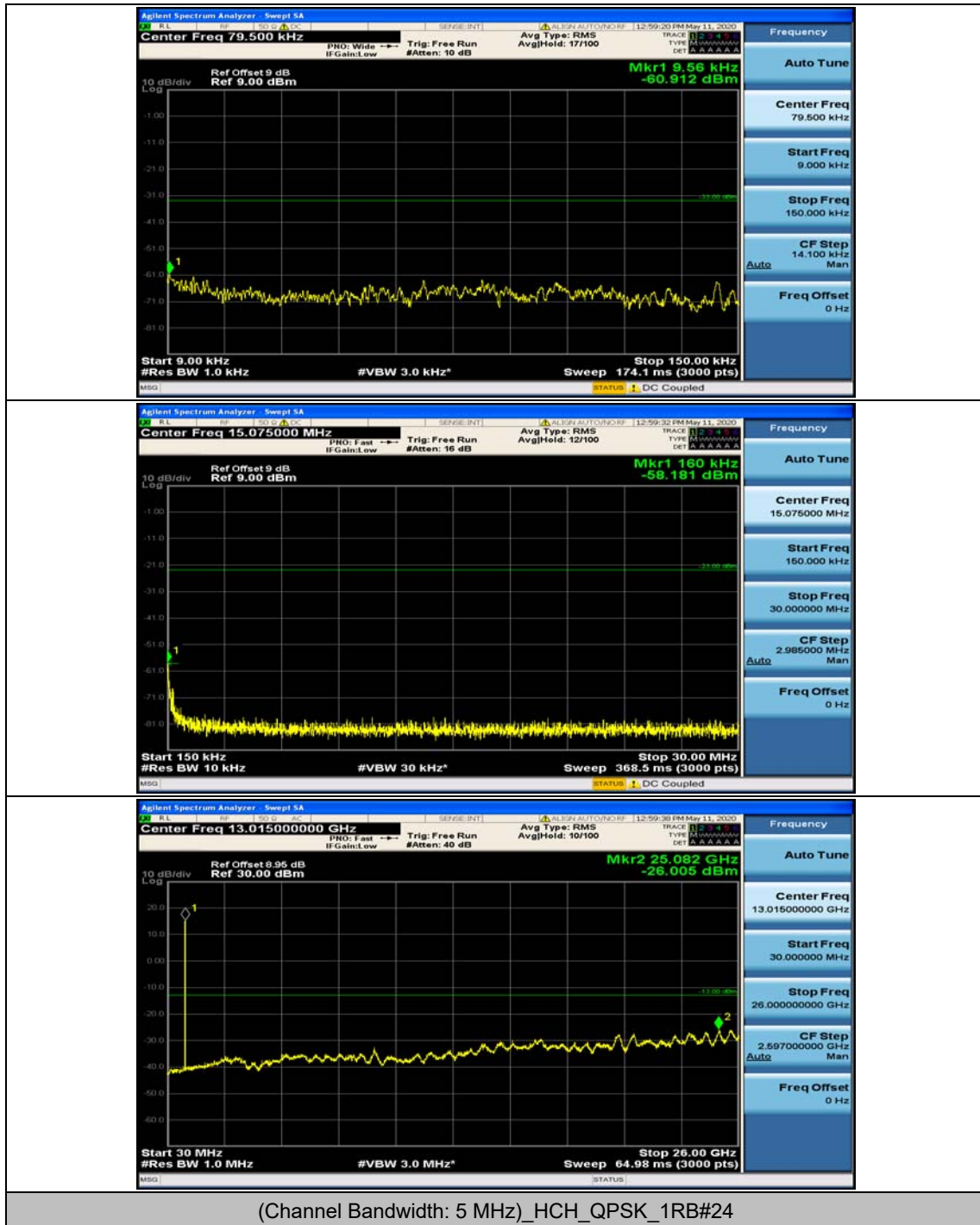


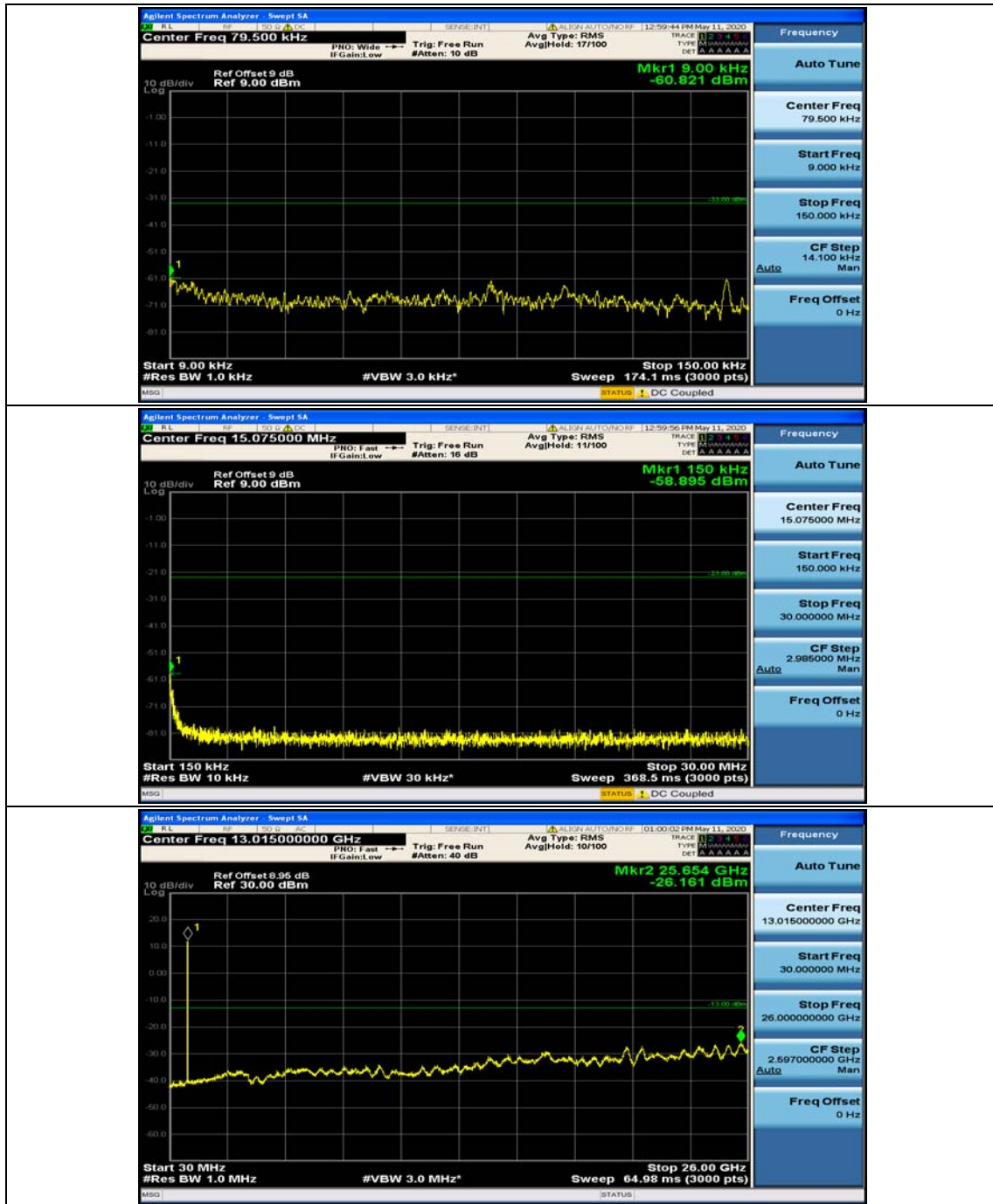


(Channel Bandwidth: 5 MHz)\_HCH\_QPSK\_1RB#0



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

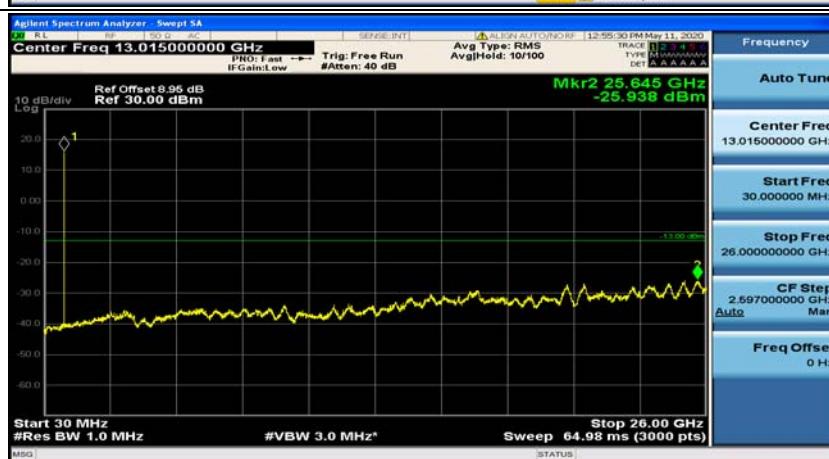
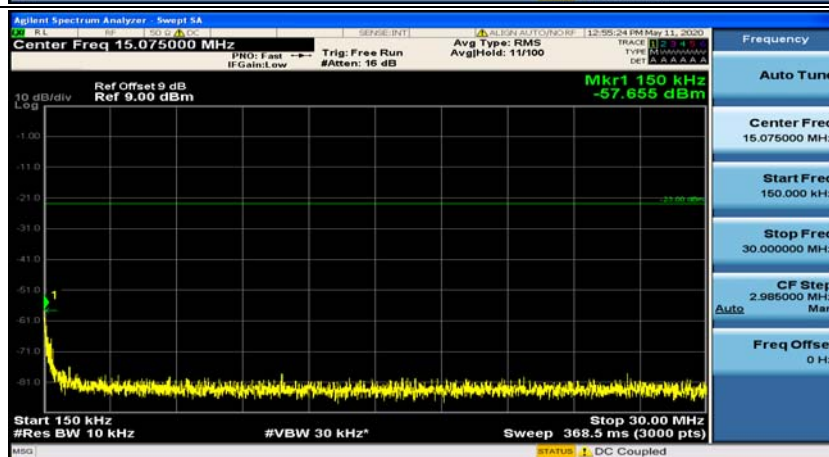
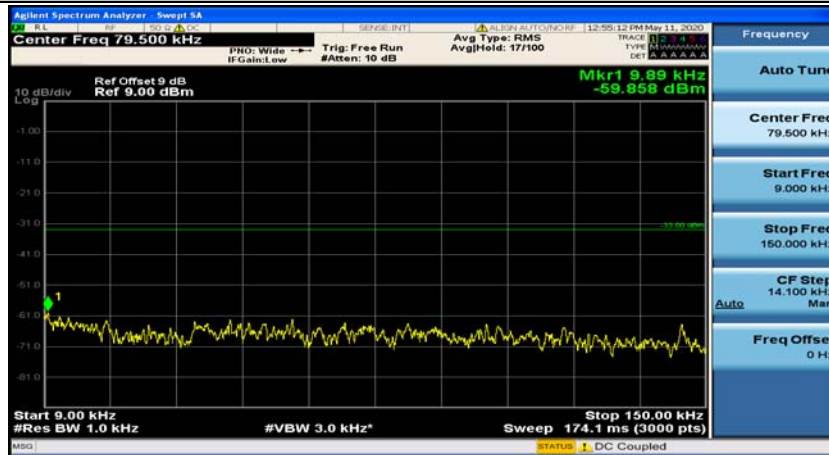




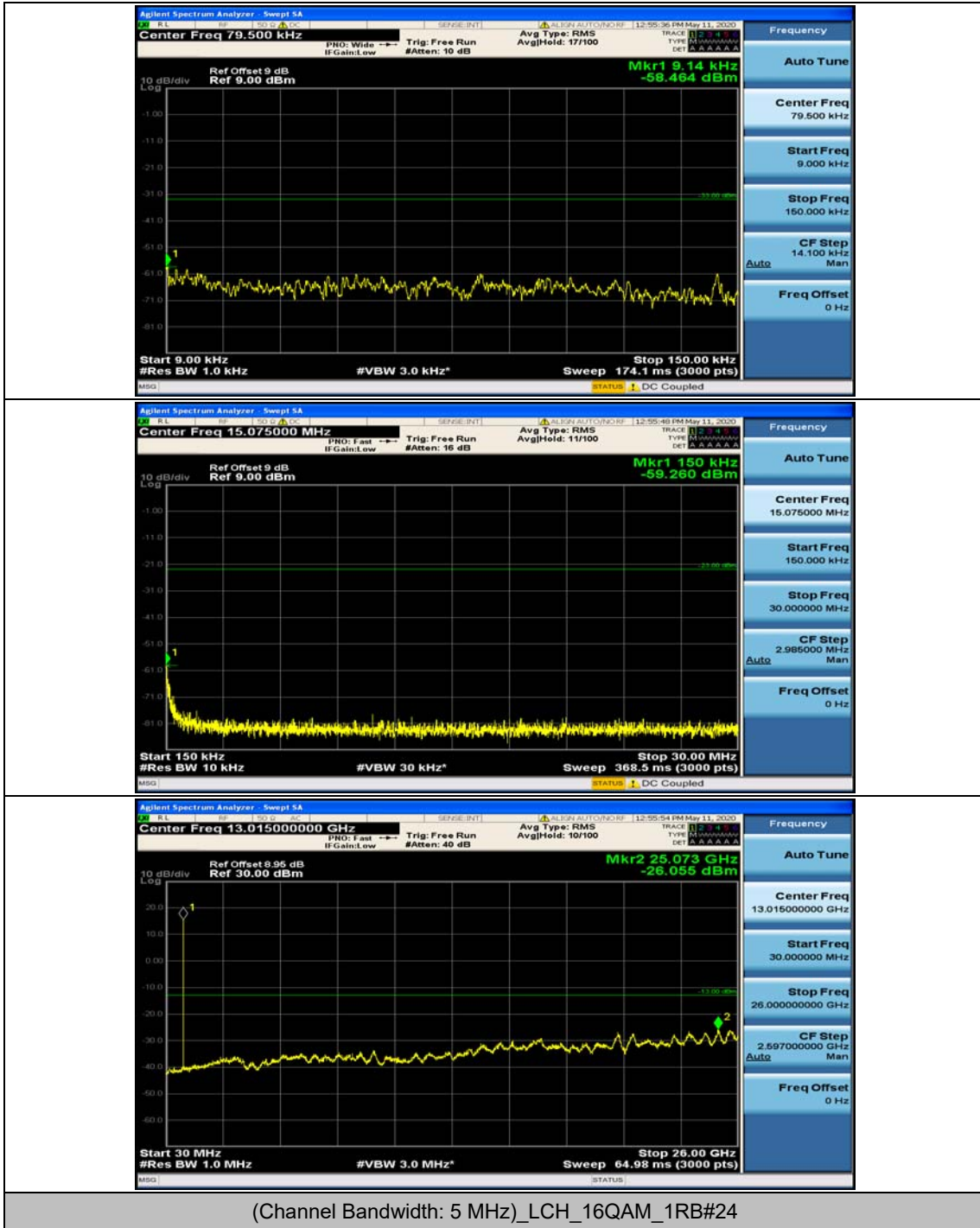


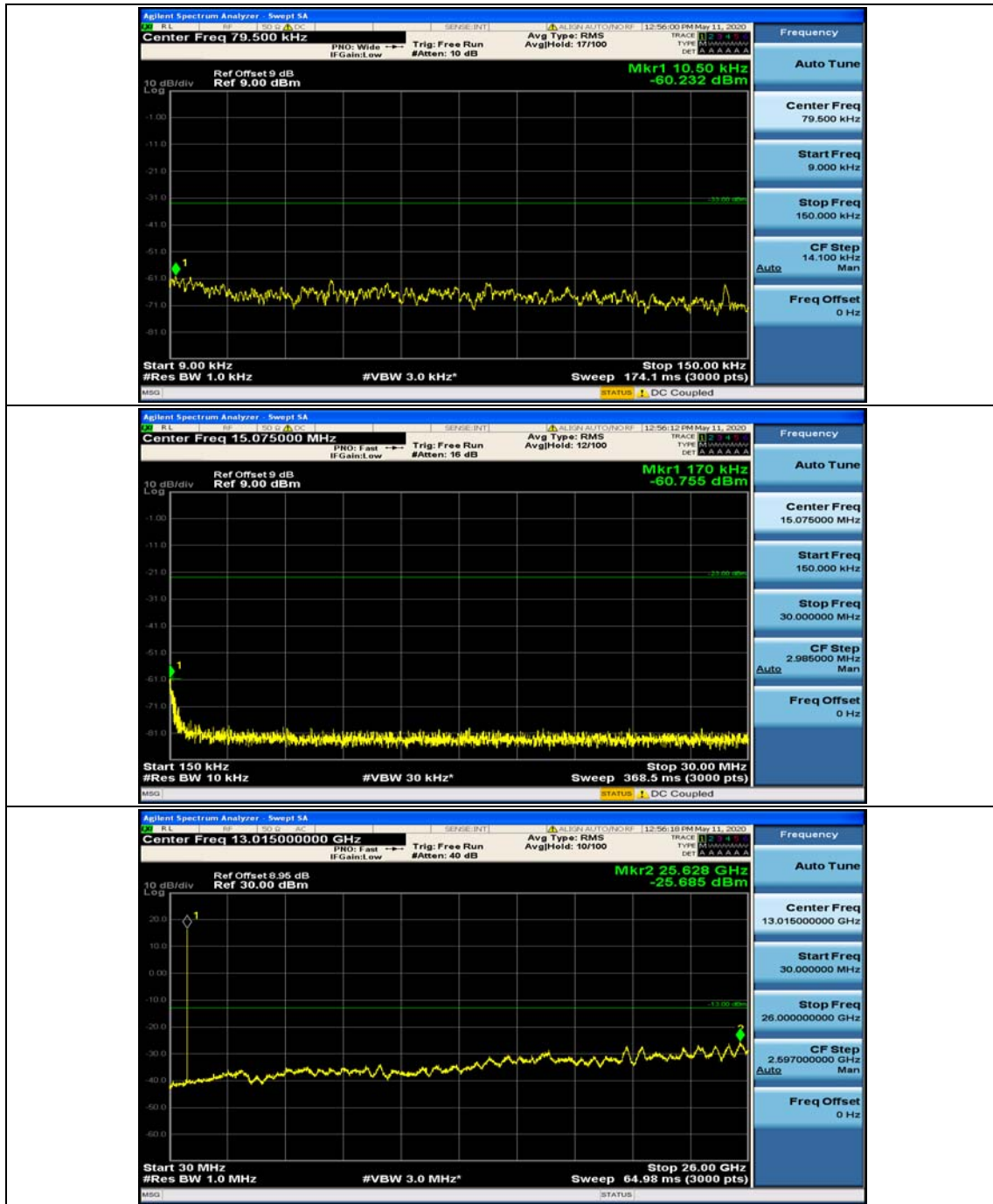


(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_1RB#0



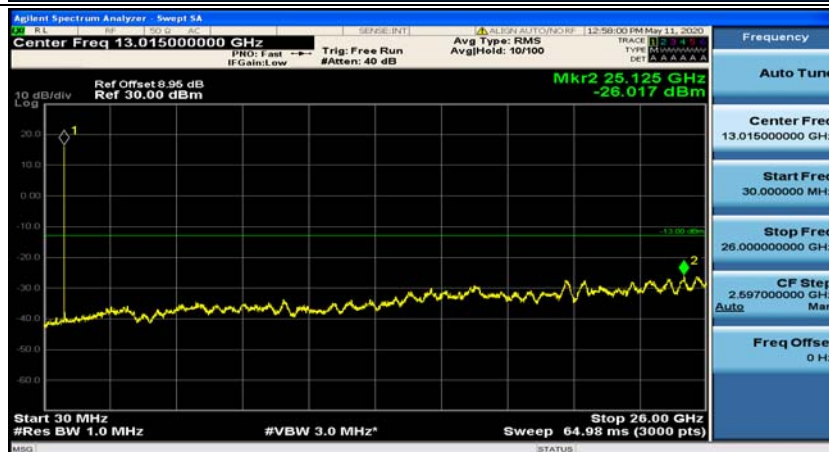
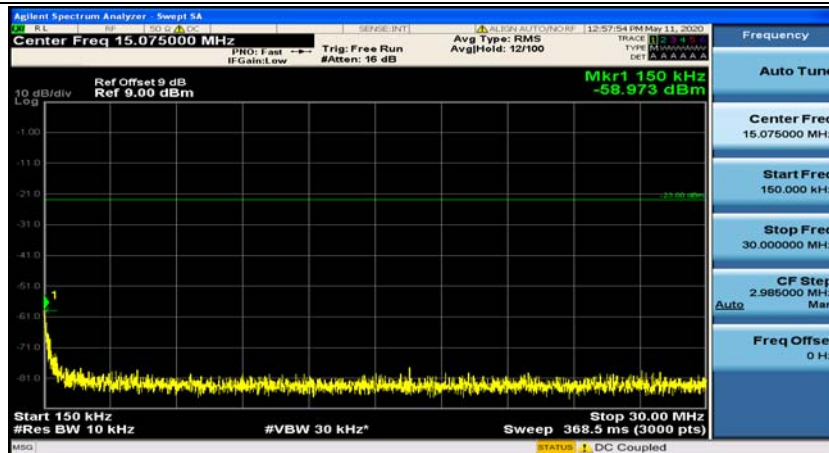
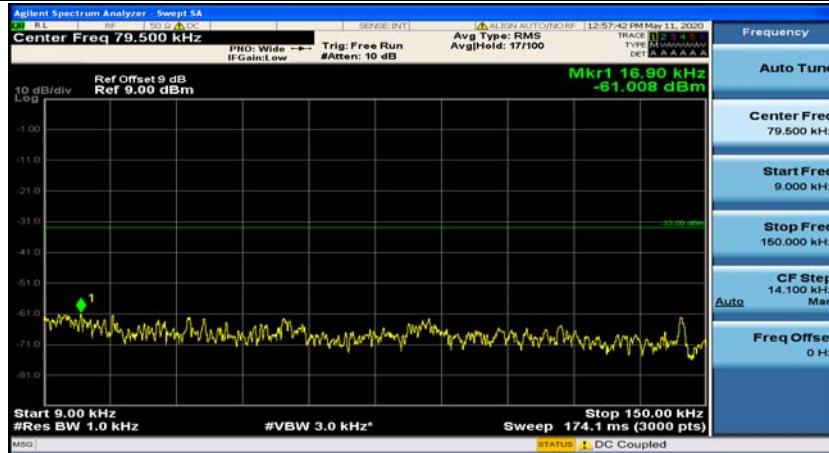
(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_1RB#12



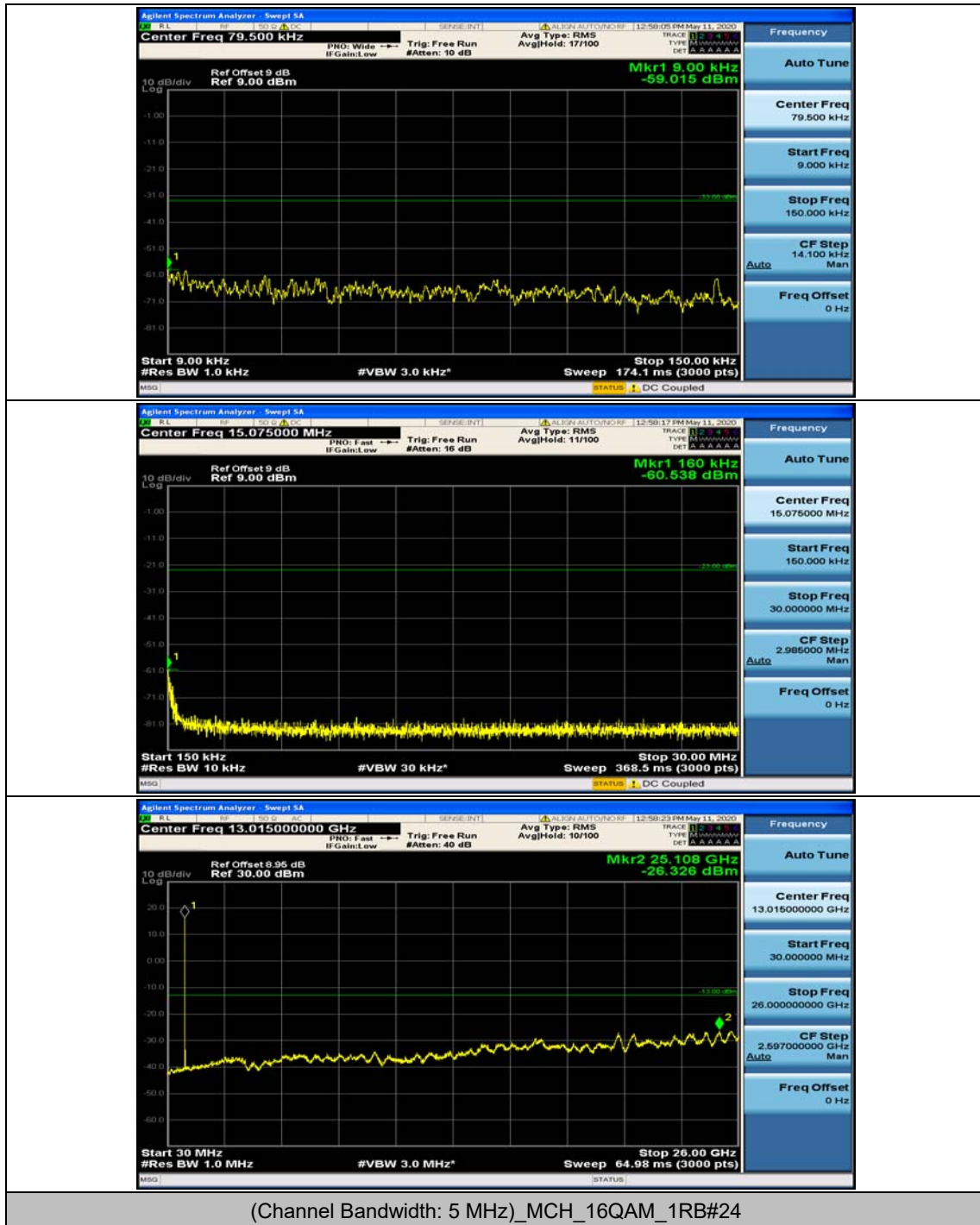




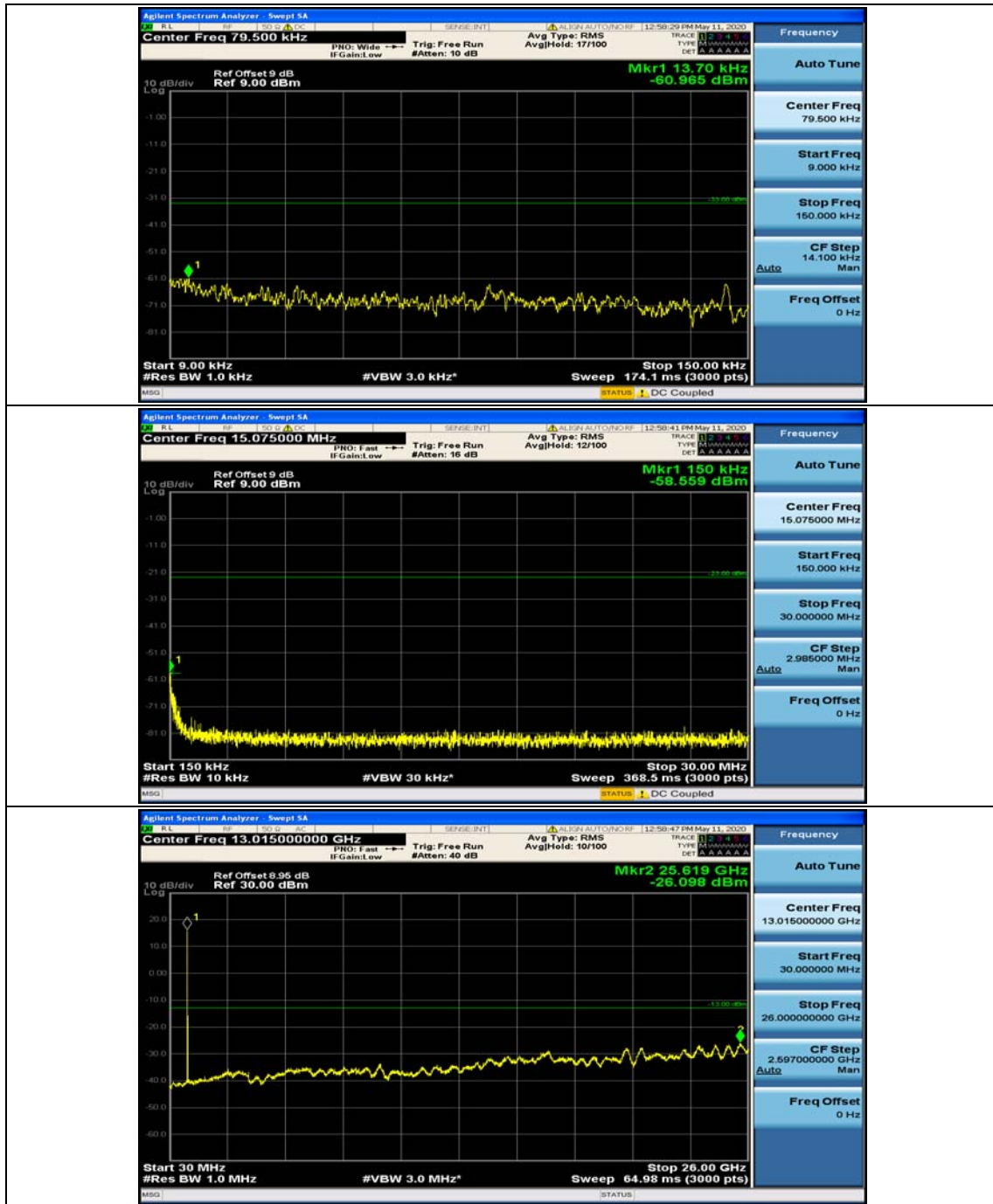
(Channel Bandwidth: 5 MHz)\_MCH\_16QAM\_1RB#0



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

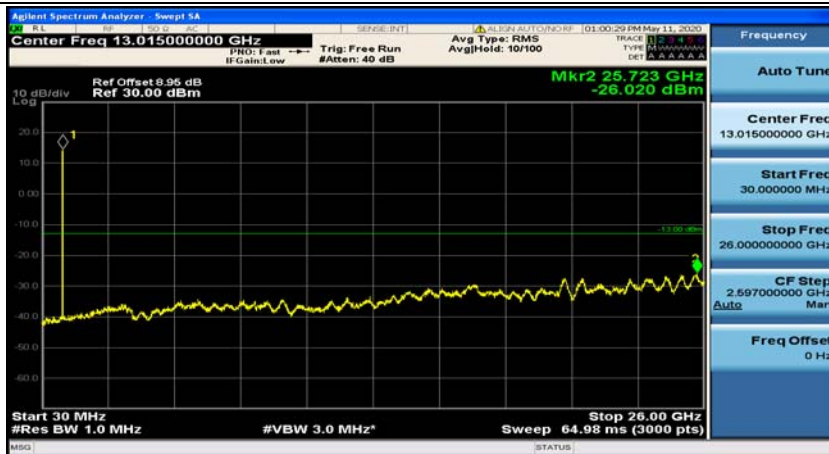
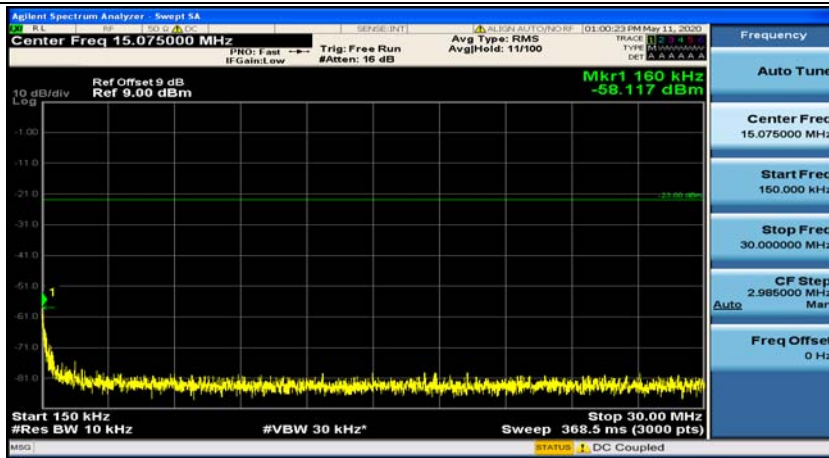
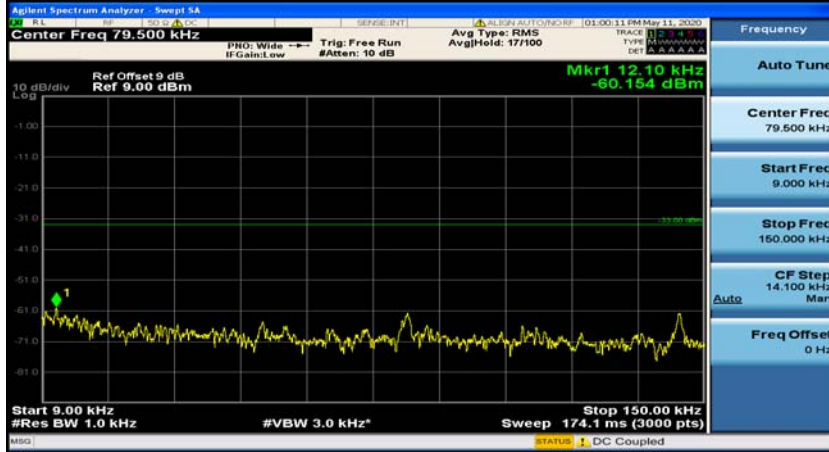




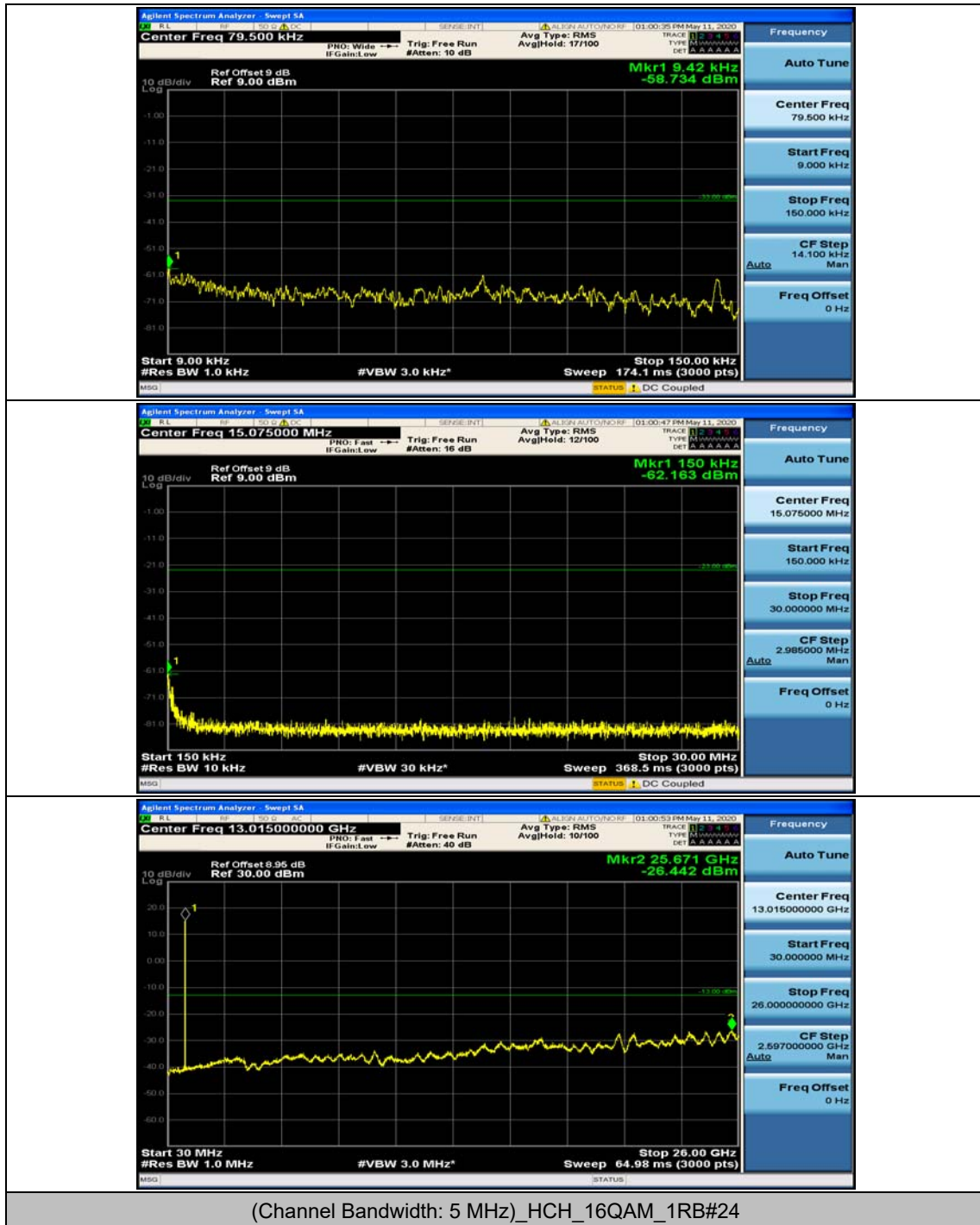


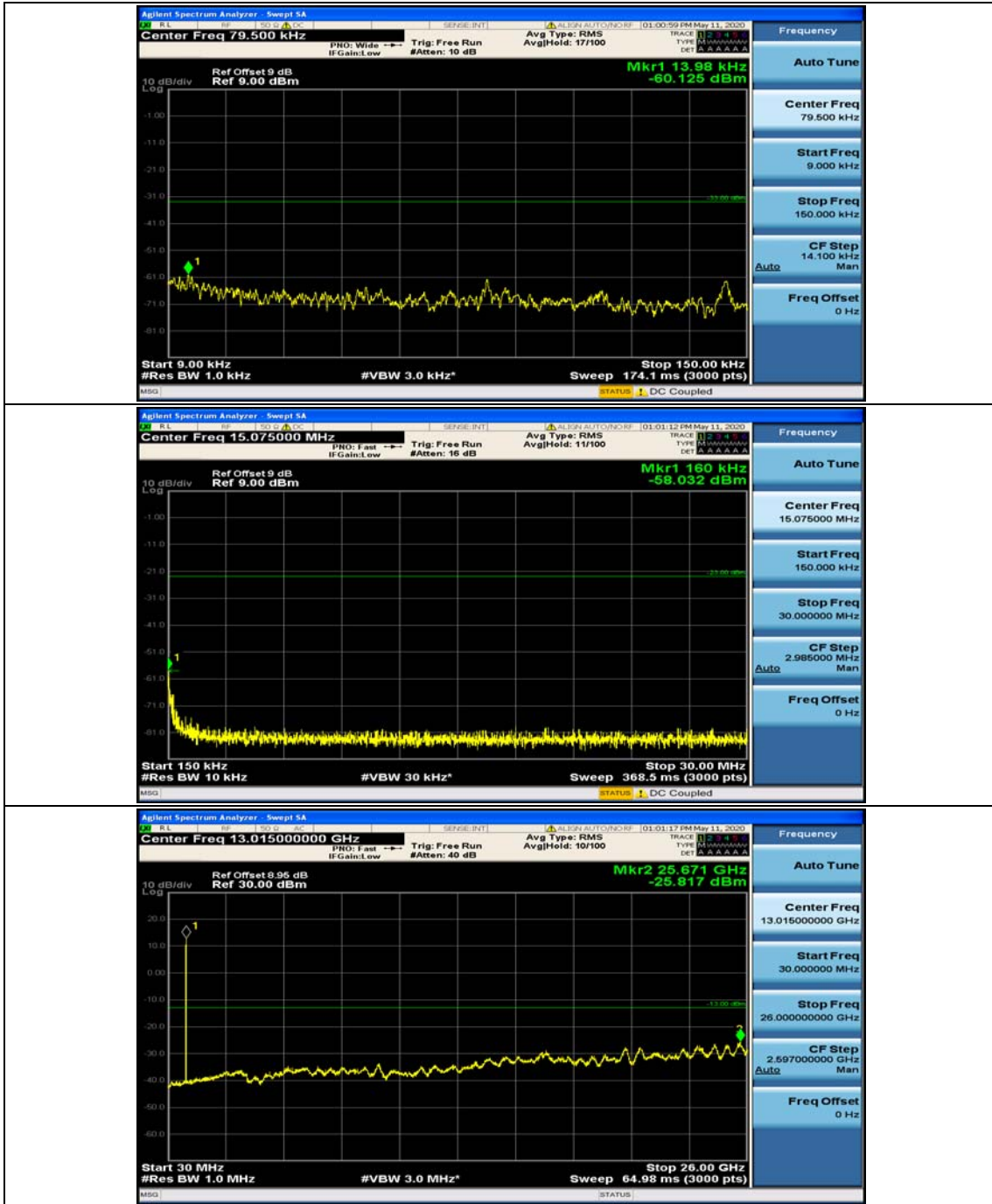


(Channel Bandwidth: 5 MHz)\_HCH\_16QAM\_1RB#0



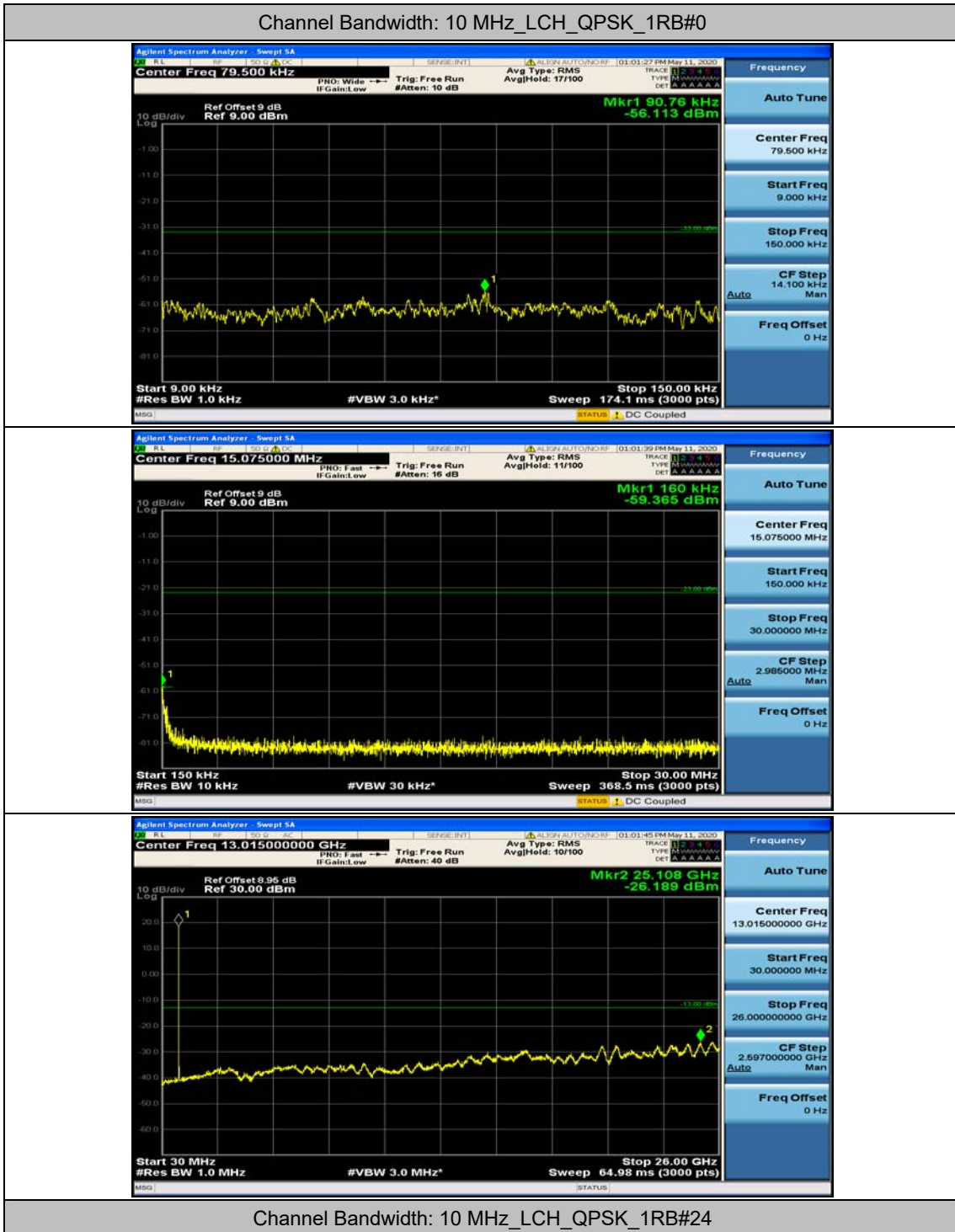
(Channel Bandwidth: 5 MHz)\_HCH\_16QAM\_1RB#12



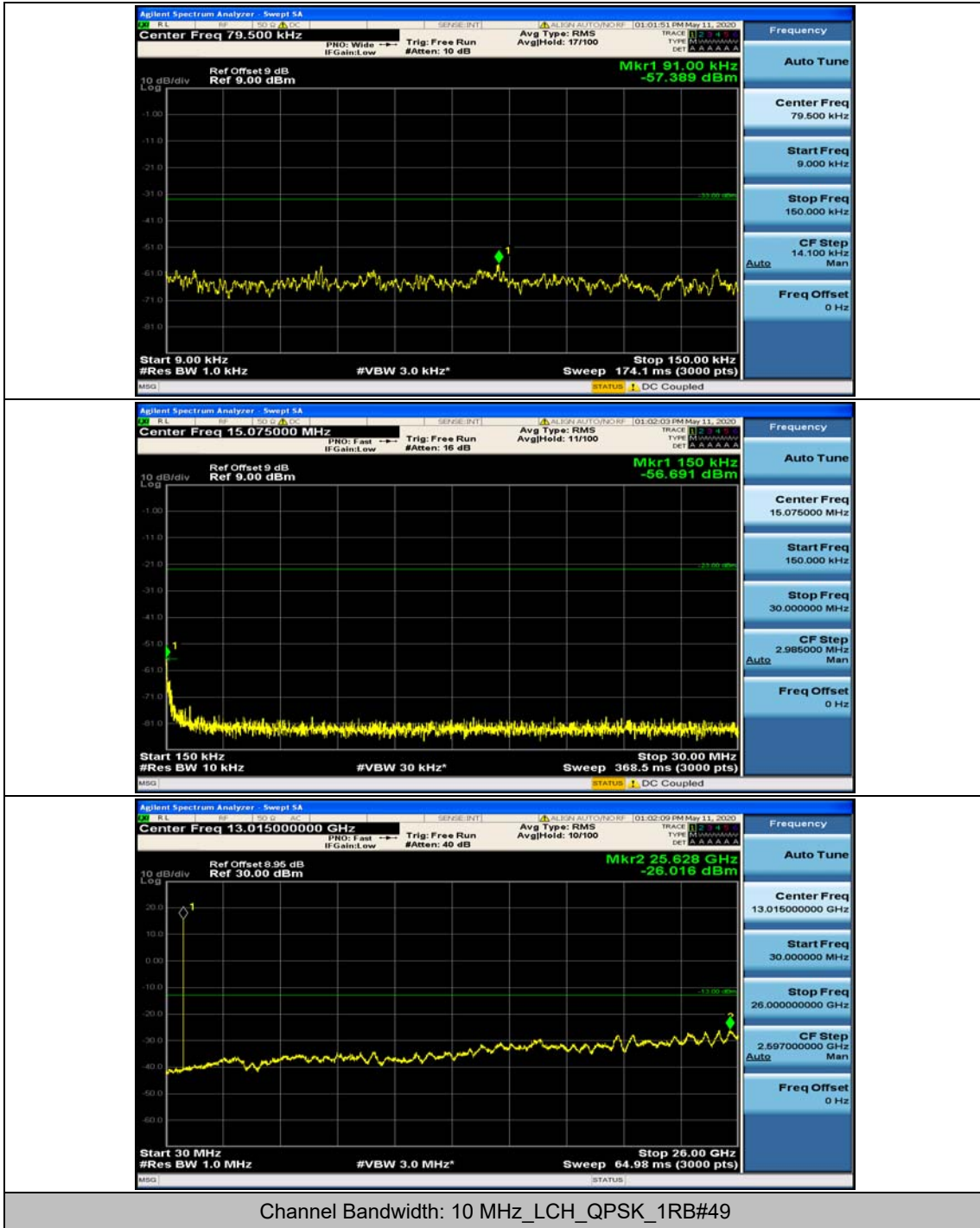


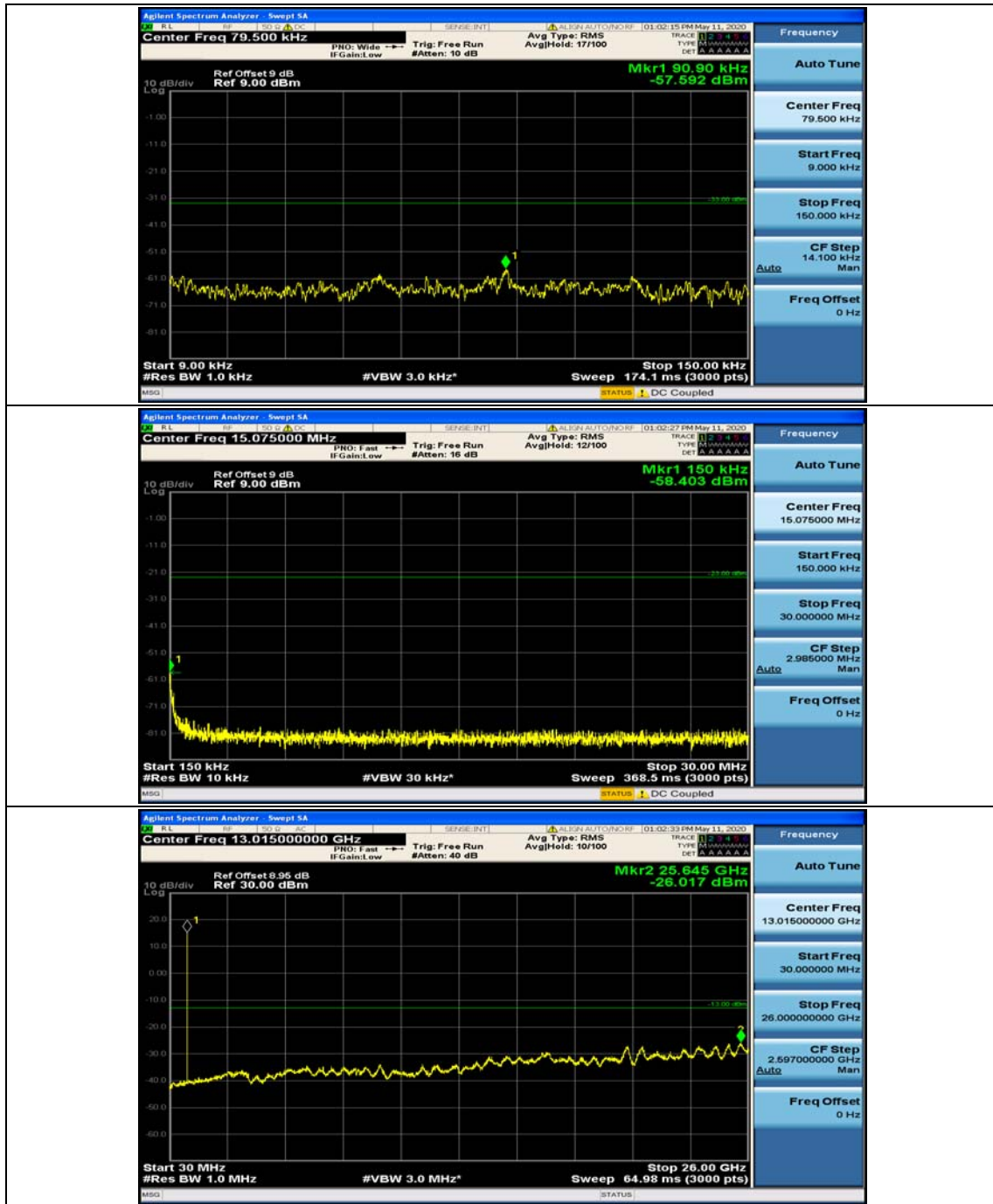


**Channel Bandwidth: 10 MHz**



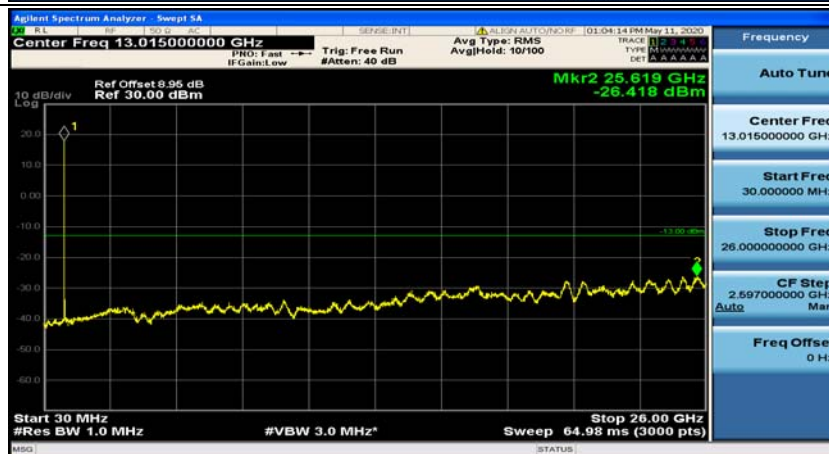
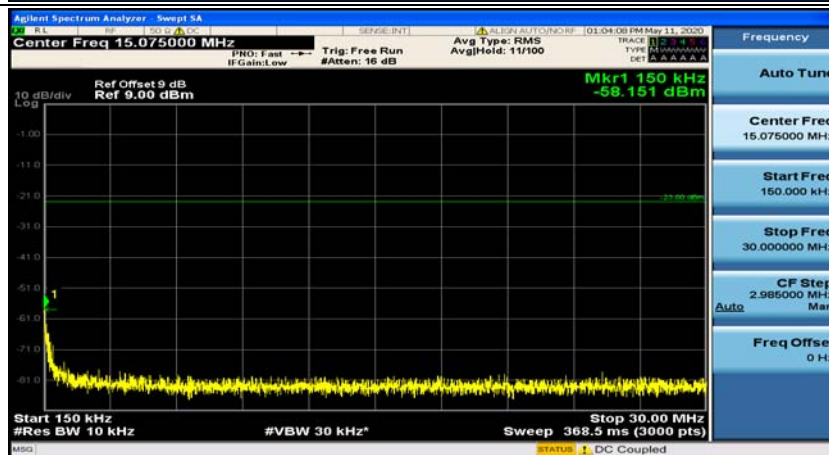
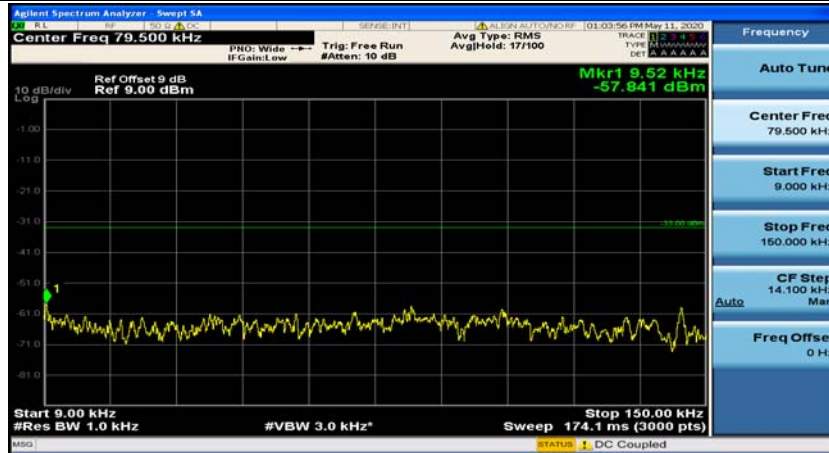




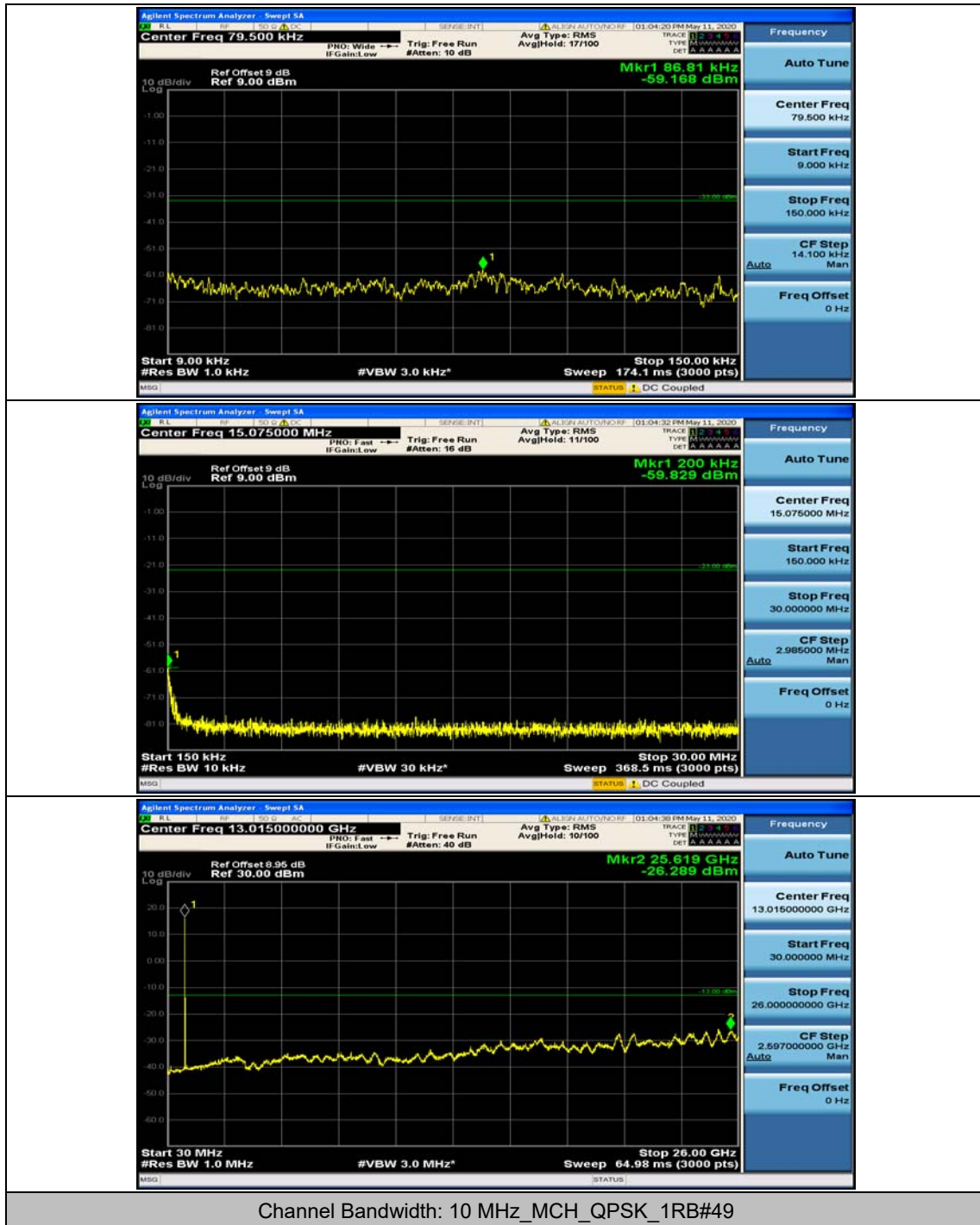


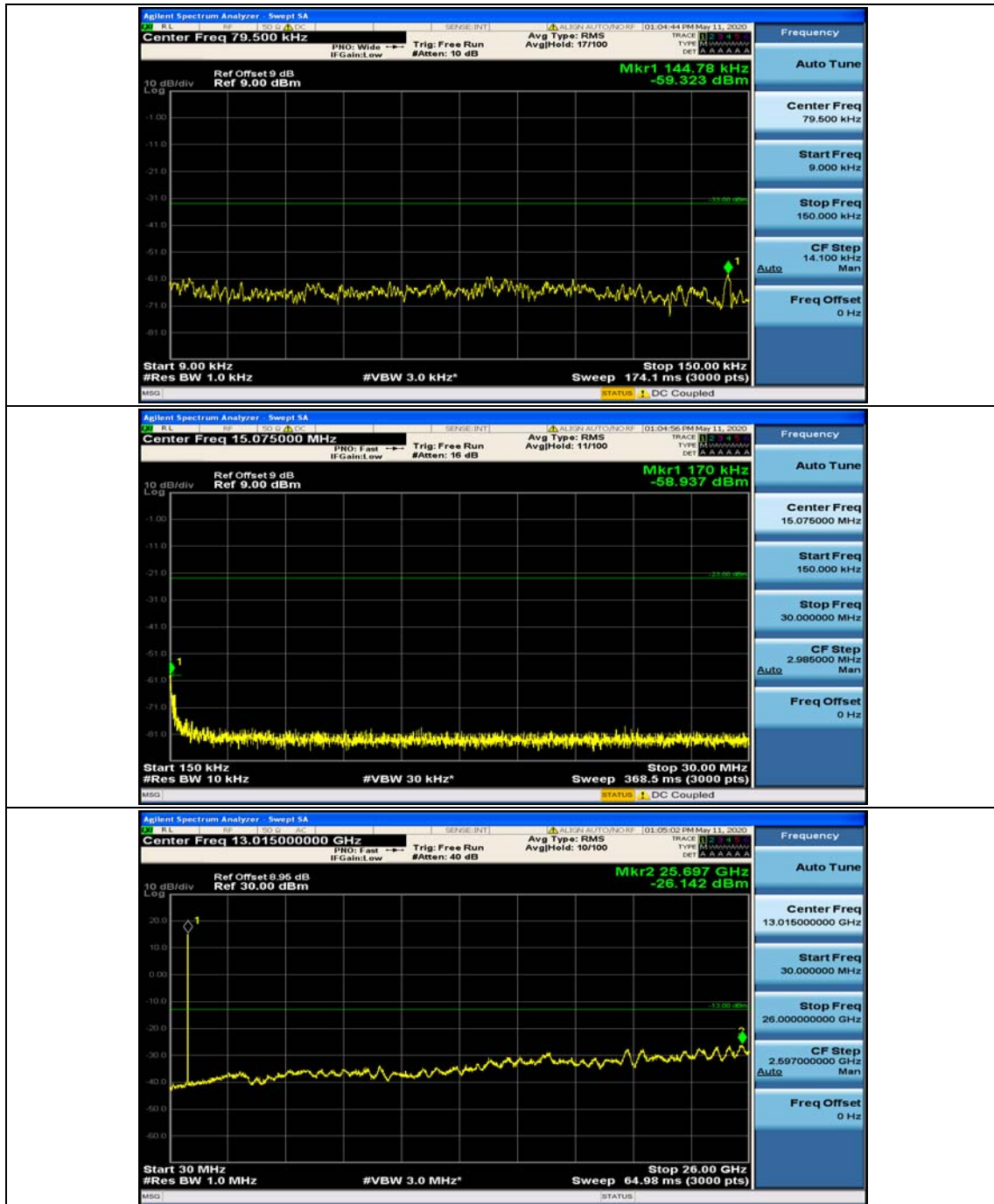


Channel Bandwidth: 10 MHz\_MCH\_QPSK\_1RB#0



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

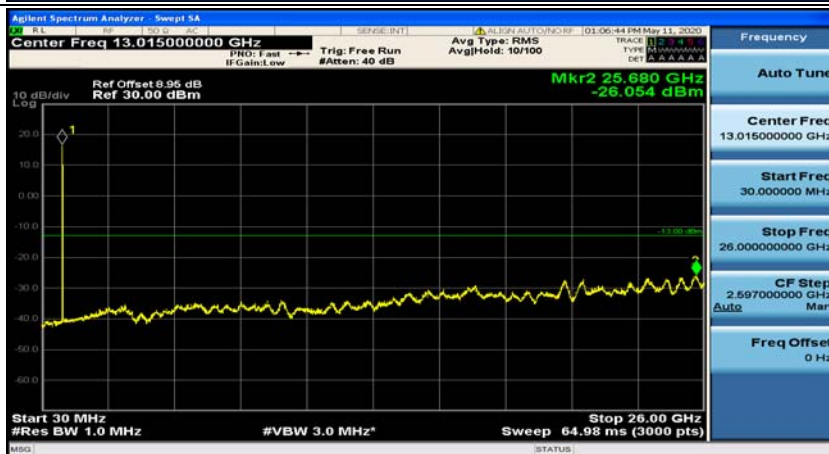
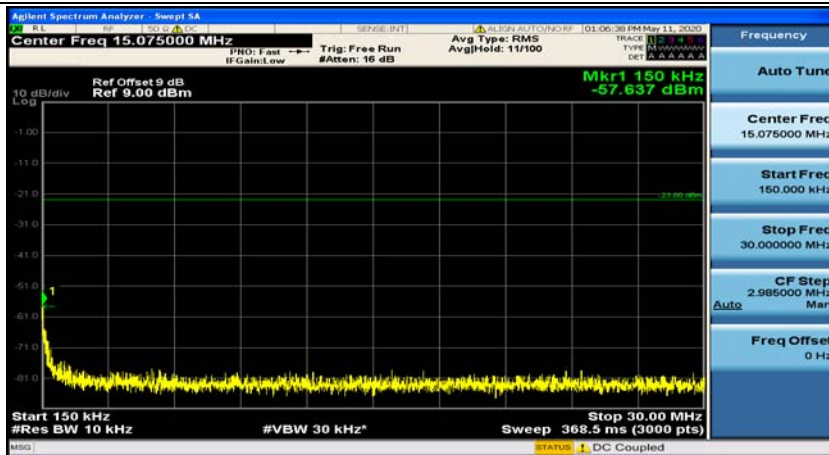
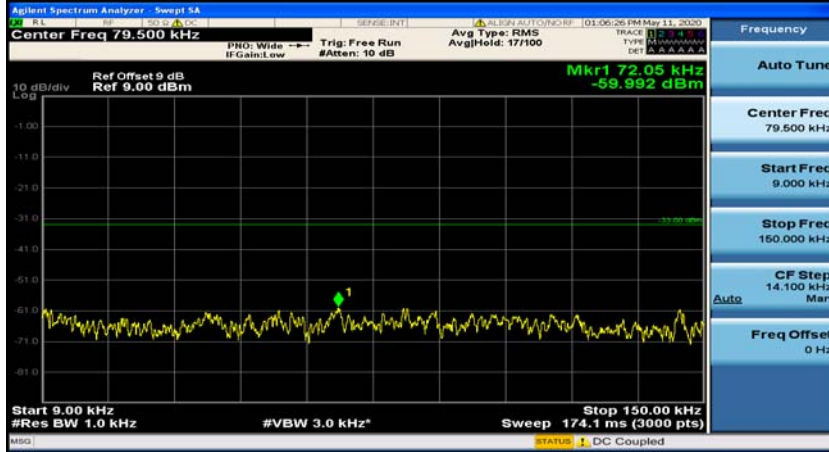




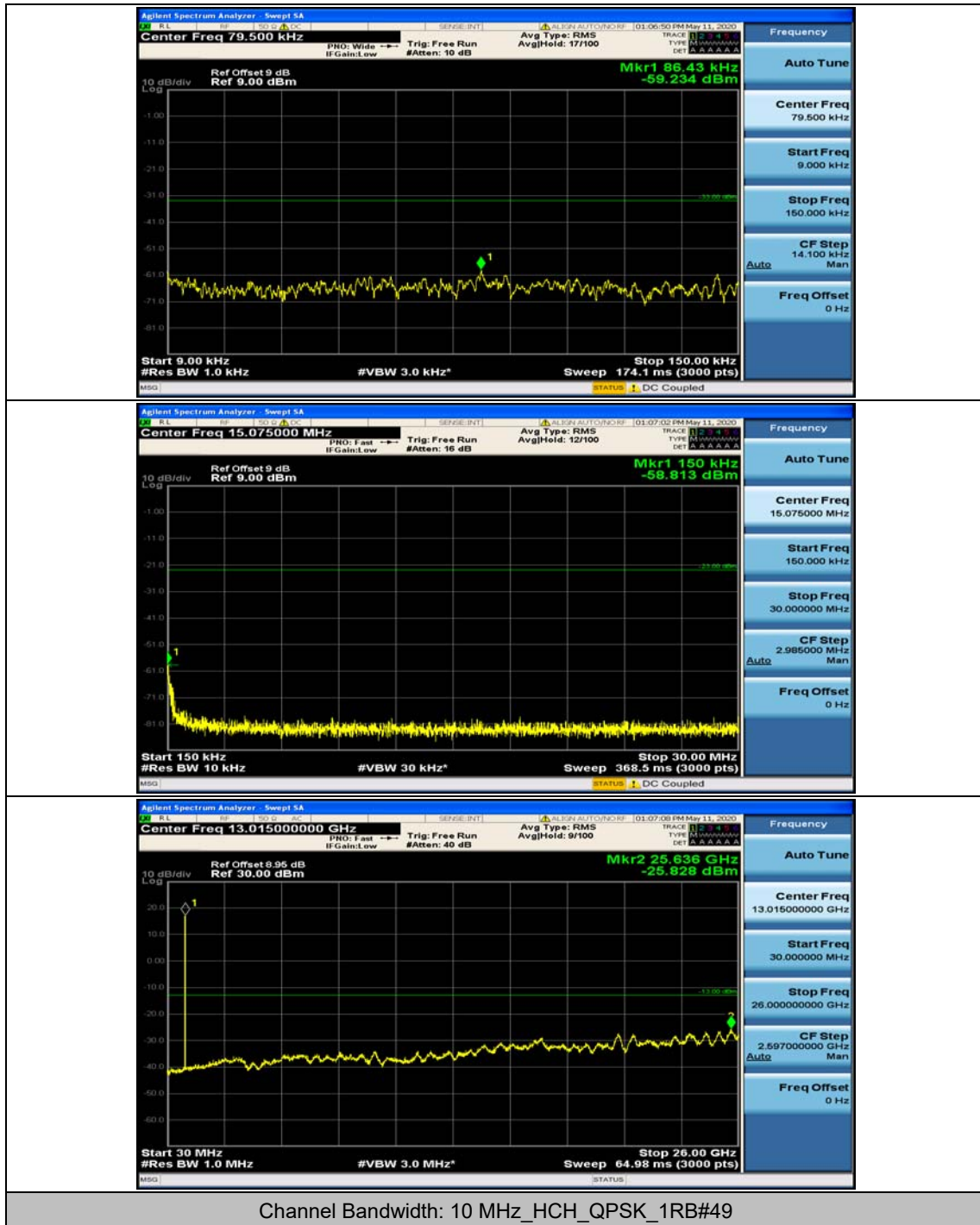


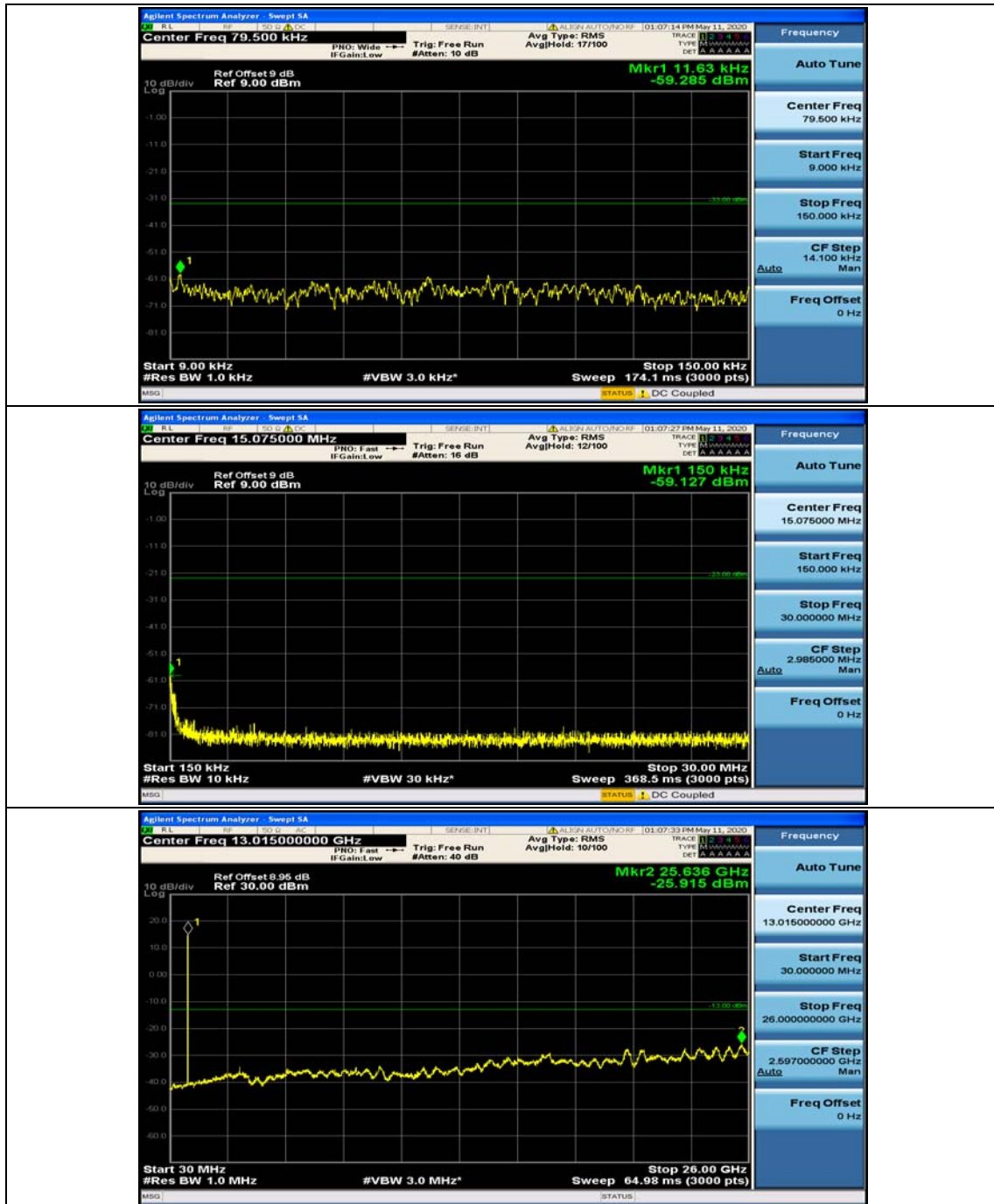


Channel Bandwidth: 10 MHz\_HCH\_QPSK\_1RB#0



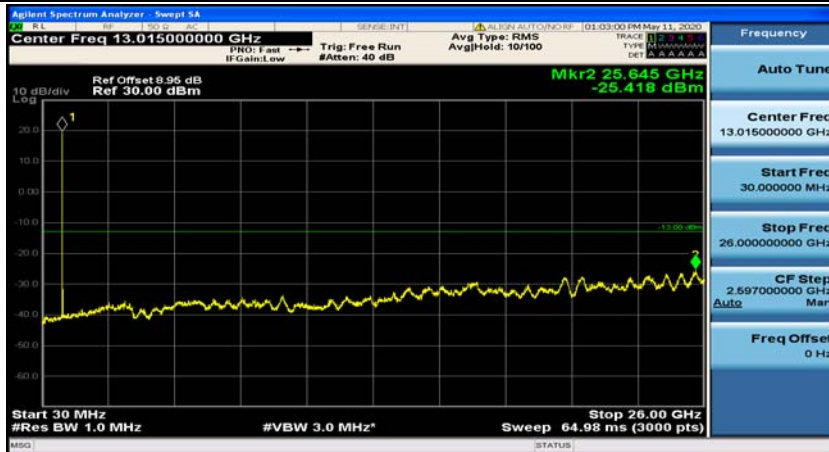
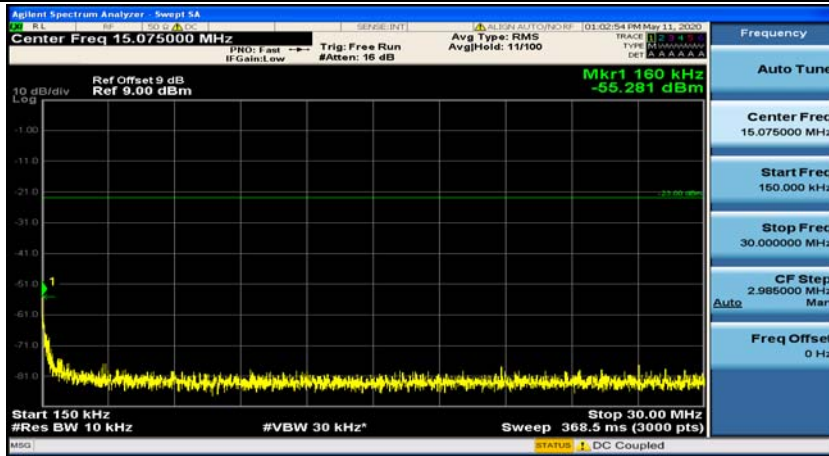
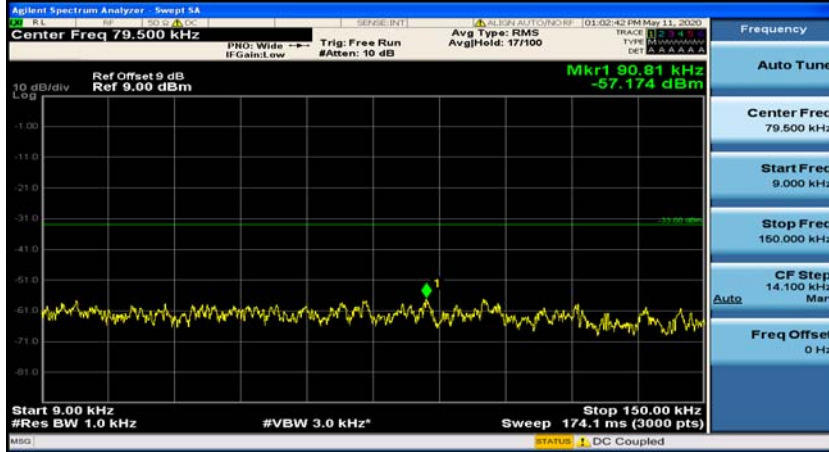
Channel Bandwidth: 10 MHz\_HCH\_QPSK\_1RB#24



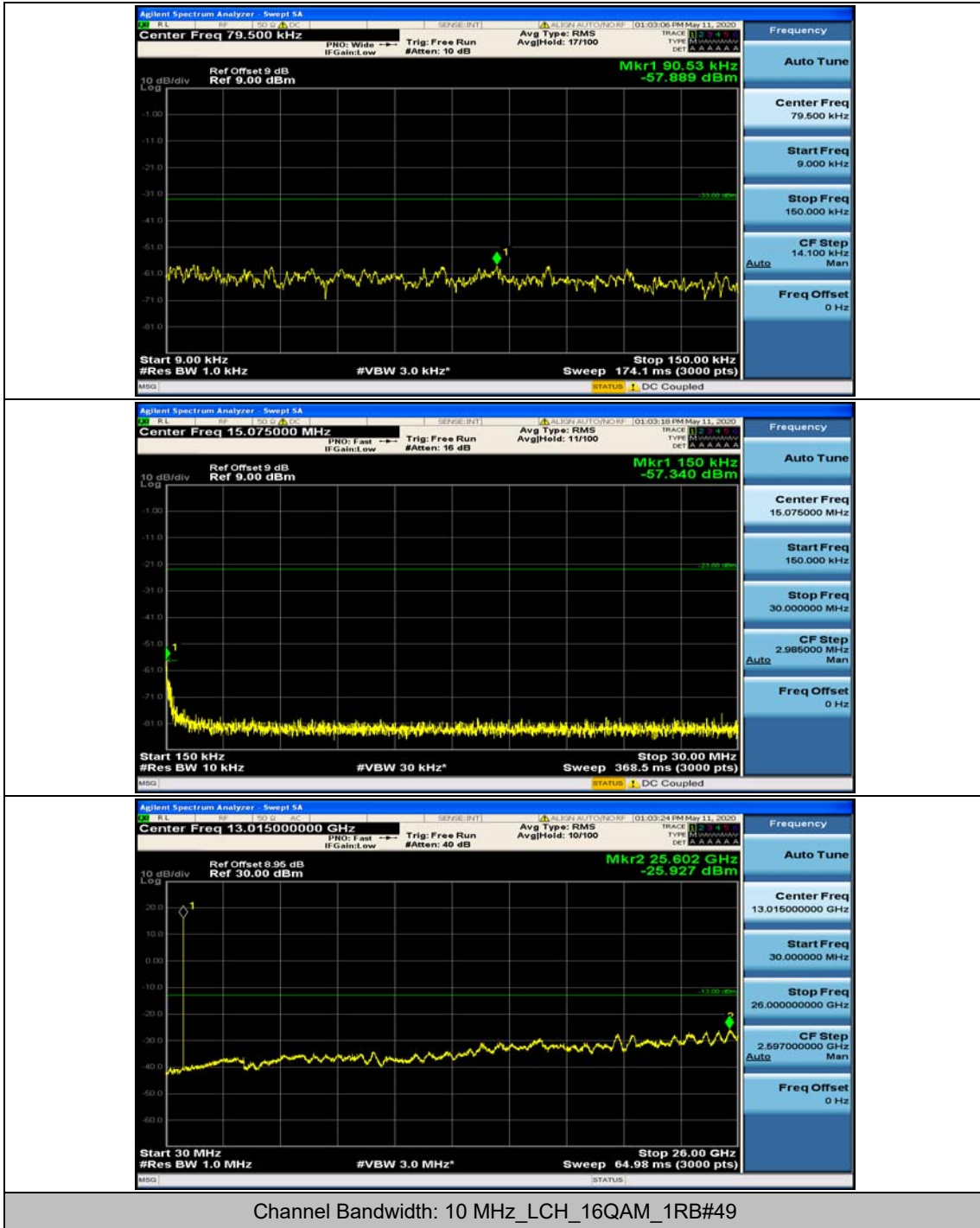




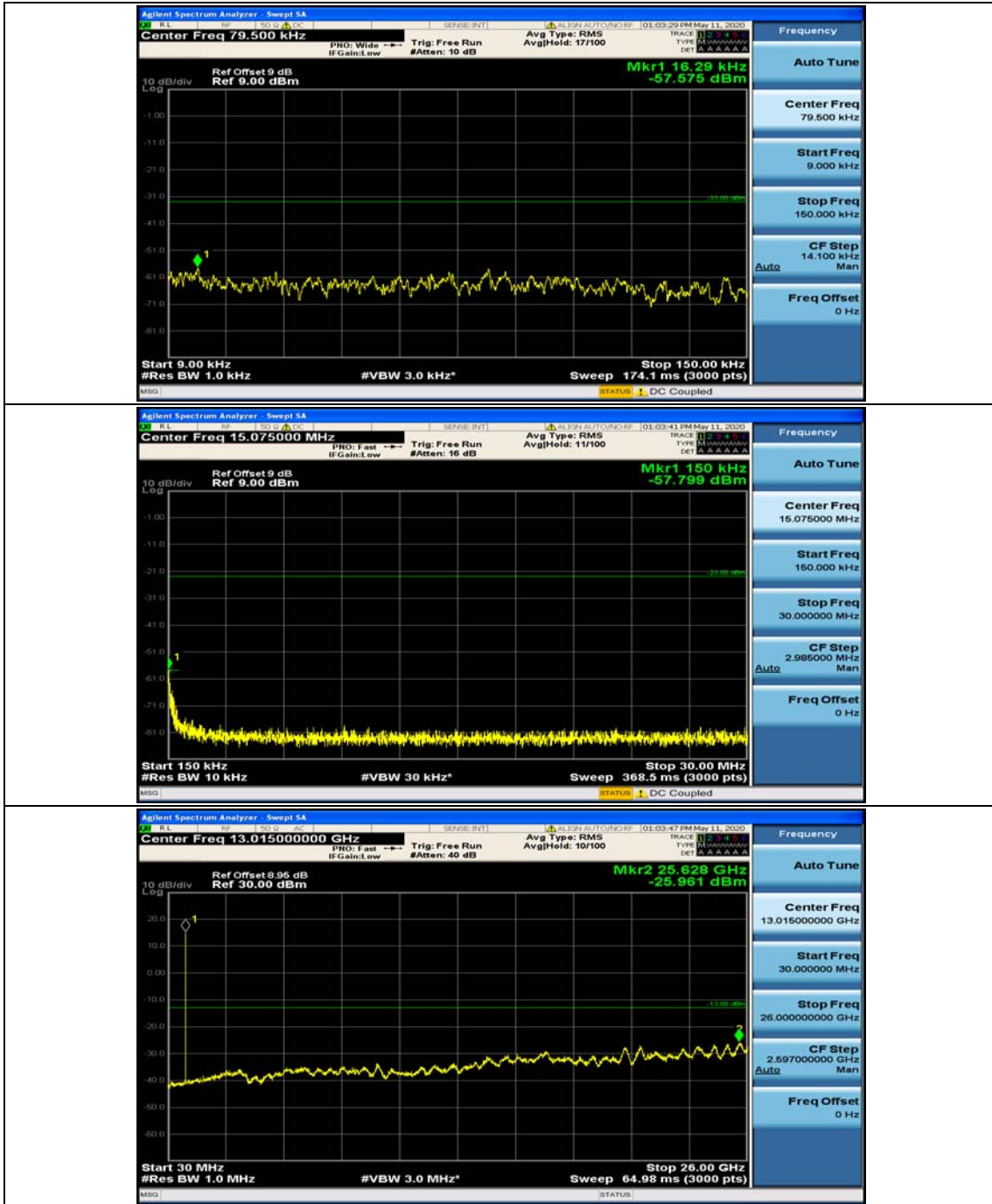
Channel Bandwidth: 10 MHz\_LCH\_16QAM\_1RB#0



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

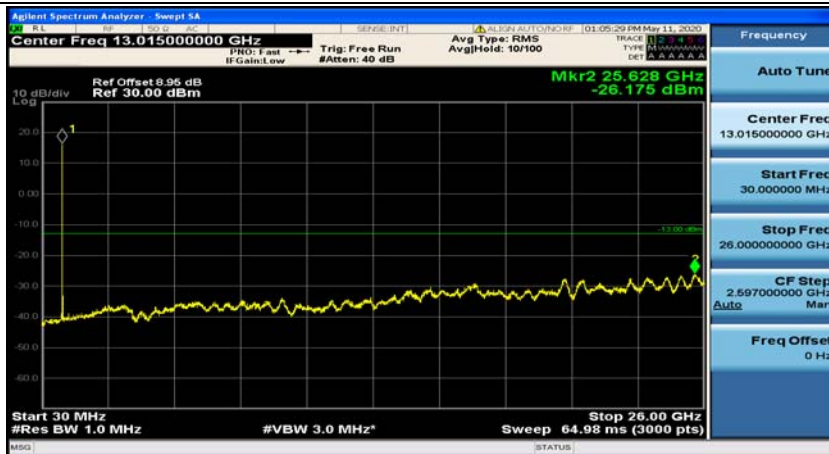
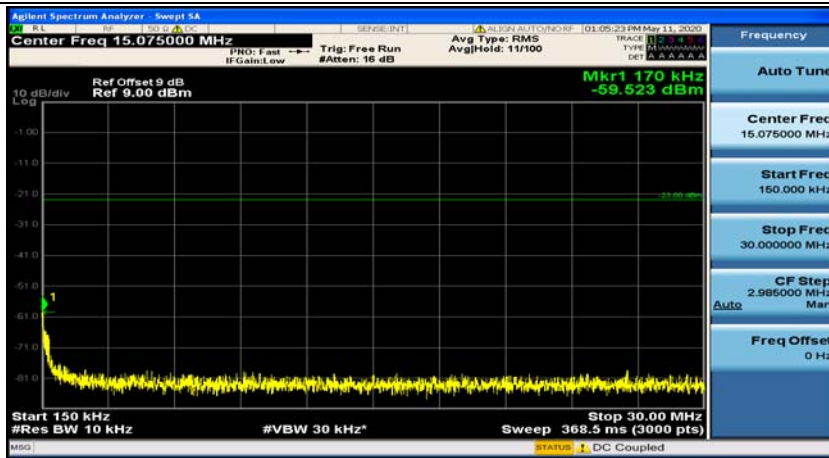
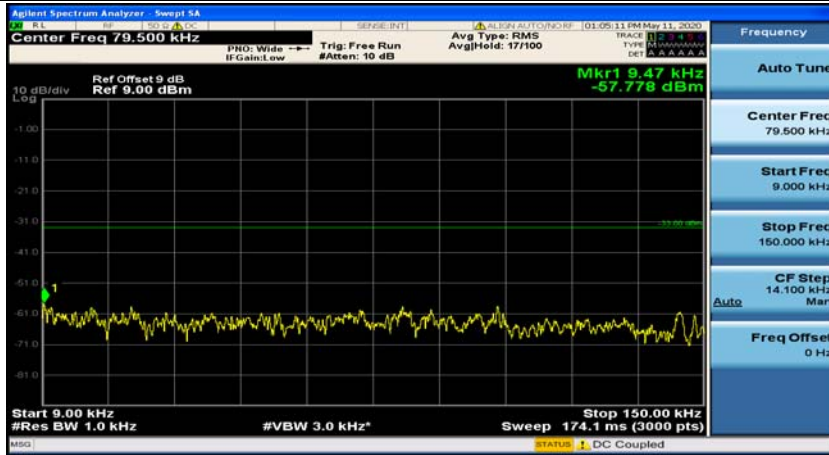




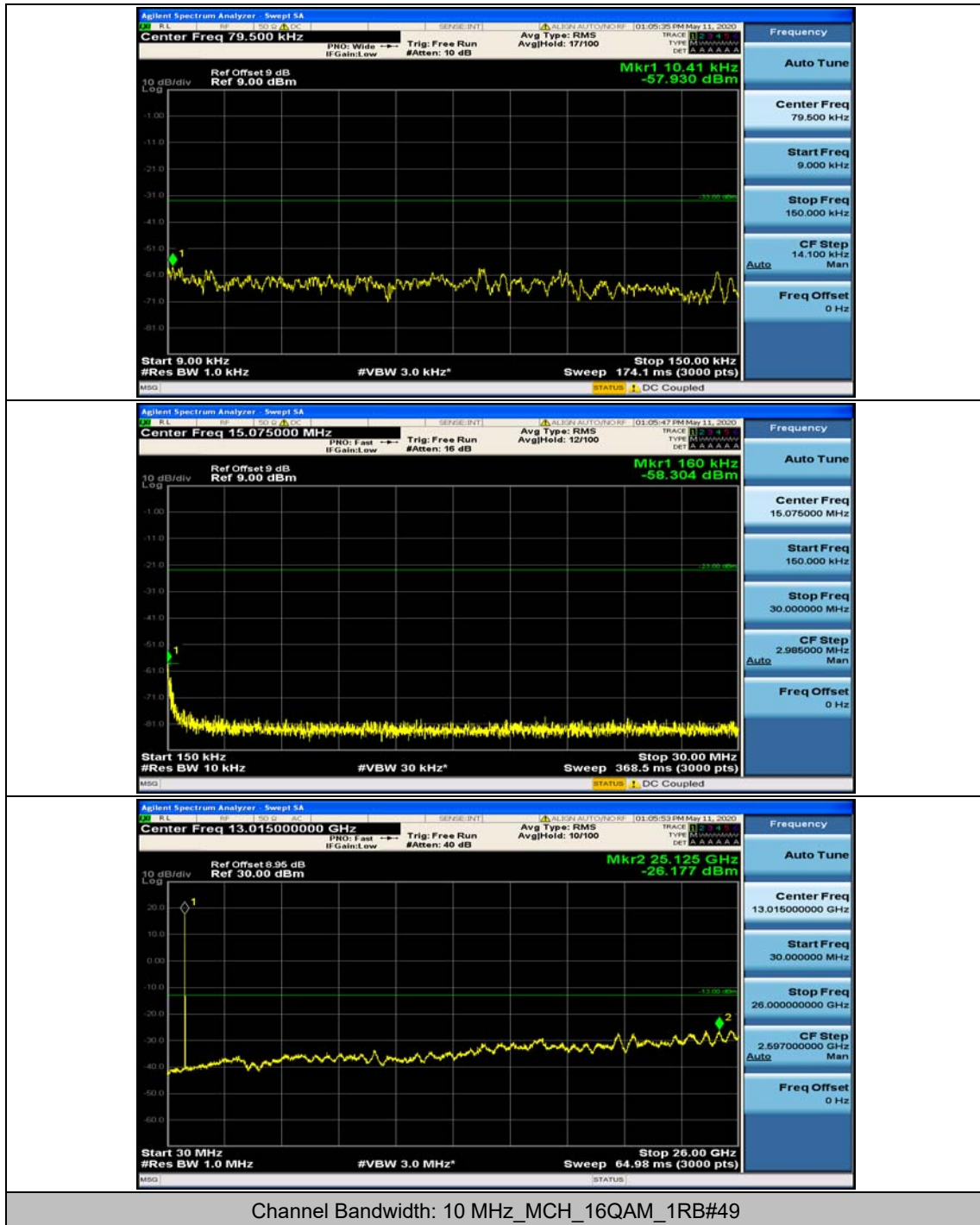


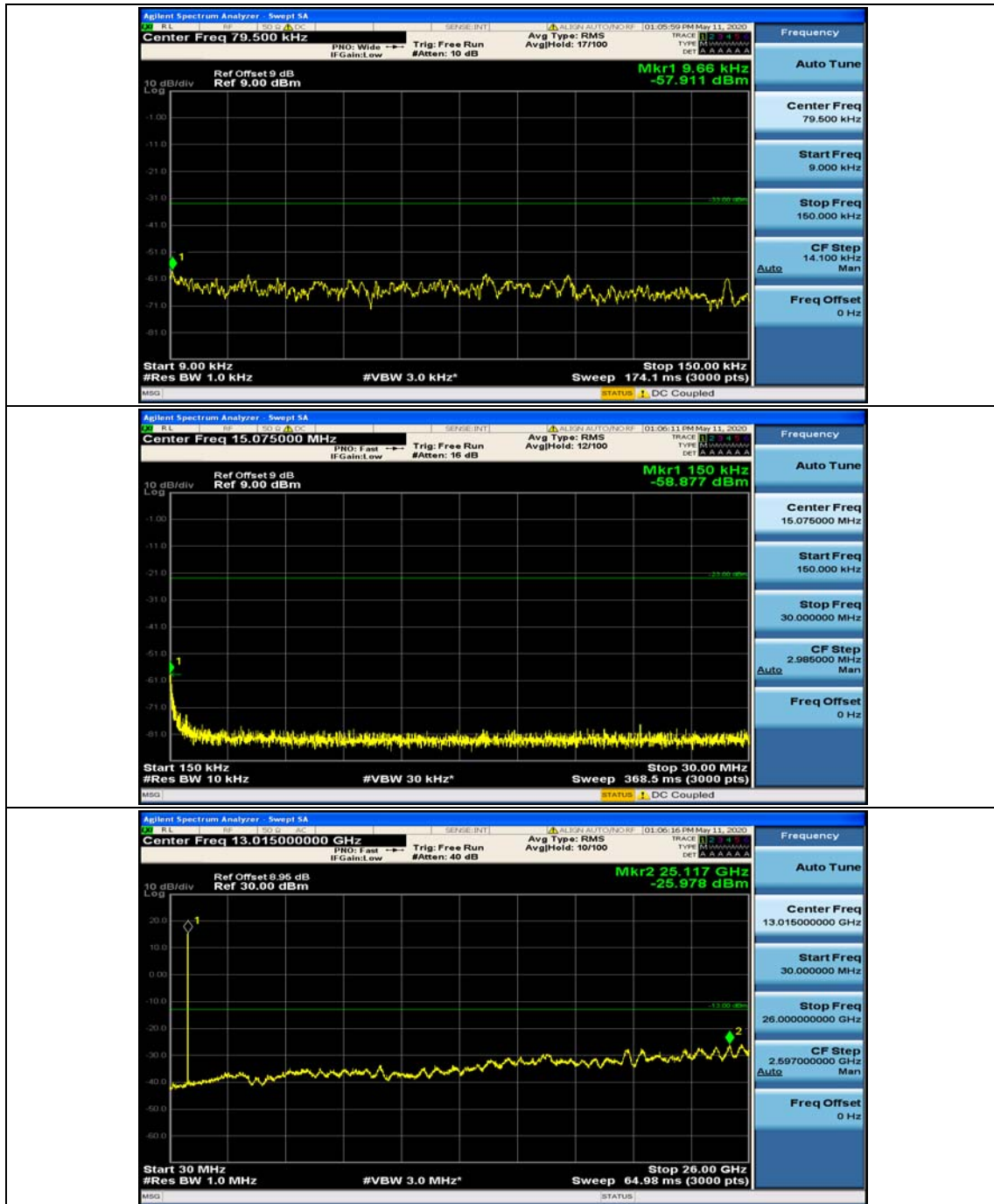


Channel Bandwidth: 10 MHz\_MCH\_16QAM\_1RB#0



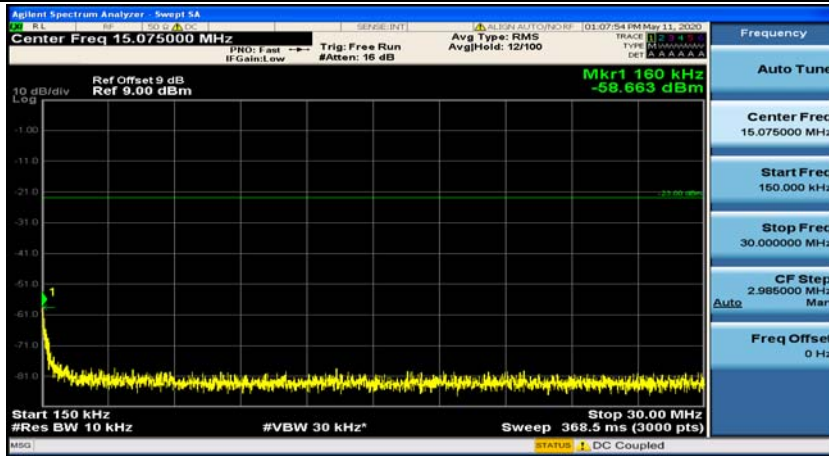
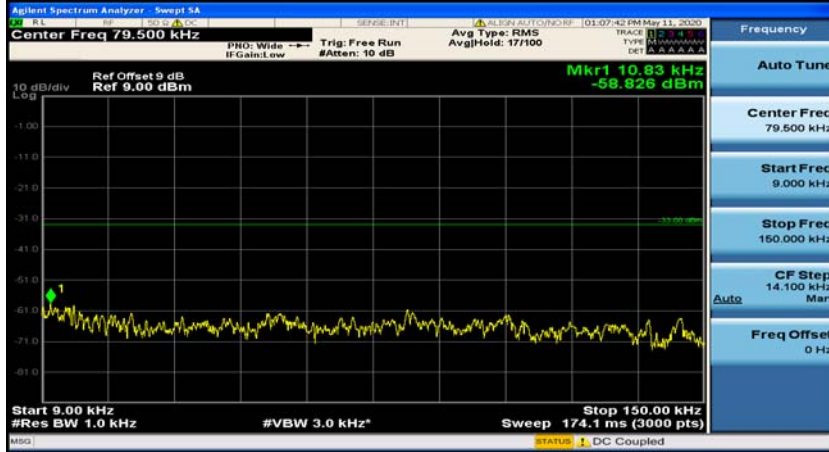
Channel Bandwidth: 10 MHz\_MCH\_16QAM\_1RB#24





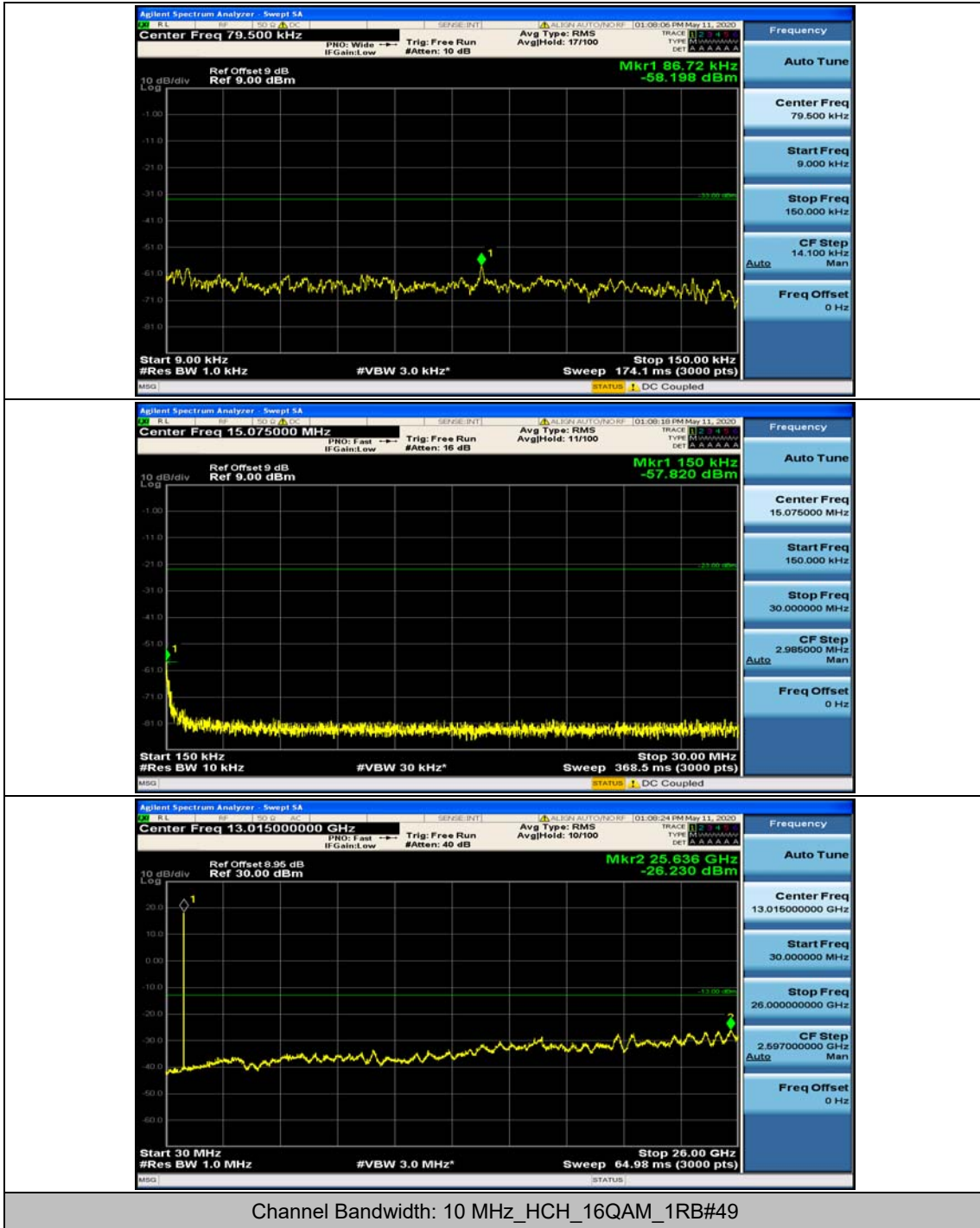


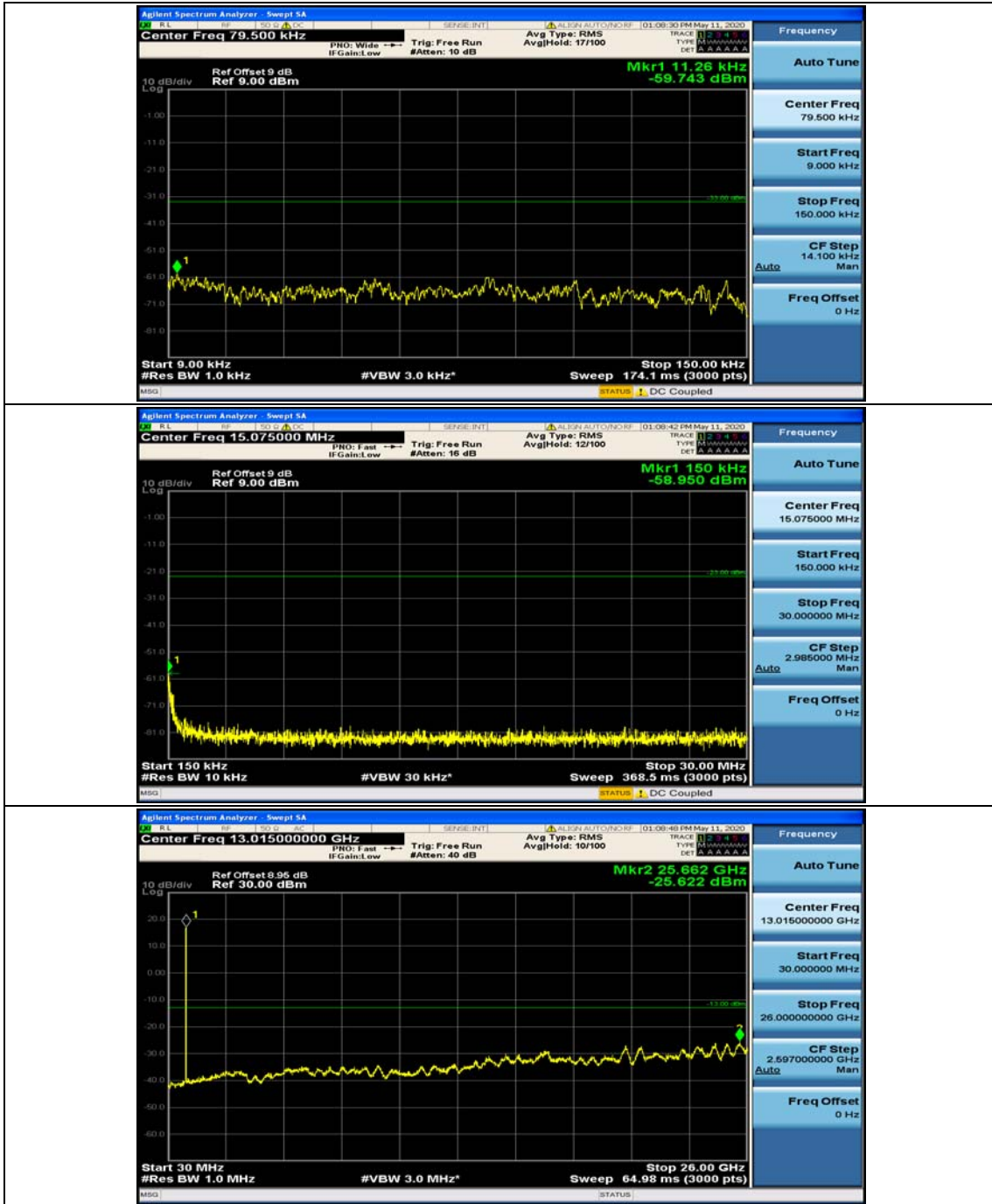
Channel Bandwidth: 10 MHz\_HCH\_16QAM\_1RB#0



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









## Appendix F: Frequency Stability

### Test Result

#### Channel Bandwidth: 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	2.77	0.003359	± 2.5	PASS
		VN	TN	-1.8	-0.002183	± 2.5	PASS
		VH	TN	-1.59	-0.001928	± 2.5	PASS
	MCH	VL	TN	2.31	0.002762	± 2.5	PASS
		VN	TN	0.56	0.000669	± 2.5	PASS
		VH	TN	2.61	0.003120	± 2.5	PASS
	HCH	VL	TN	3.64	0.004291	± 2.5	PASS
		VN	TN	4.21	0.004963	± 2.5	PASS
		VH	TN	1.91	0.002252	± 2.5	PASS
16QAM	LCH	VL	TN	-0.54	-0.000655	± 2.5	PASS
		VN	TN	-1.51	-0.001831	± 2.5	PASS
		VH	TN	0.6	0.000728	± 2.5	PASS
	MCH	VL	TN	3.96	0.004734	± 2.5	PASS
		VN	TN	-1.92	-0.002295	± 2.5	PASS
		VH	TN	3.2	0.003825	± 2.5	PASS
	HCH	VL	TN	1.59	0.001874	± 2.5	PASS
		VN	TN	-1.08	-0.001273	± 2.5	PASS
		VH	TN	-0.97	-0.001143	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-1.46	-0.001770	± 2.5	PASS
		VN	-20	3.7	0.004486	± 2.5	PASS
		VN	-10	3.9	0.004729	± 2.5	PASS
		VN	0	2.3	0.002789	± 2.5	PASS
		VN	10	0.07	0.000085	± 2.5	PASS
		VN	20	1.08	0.001310	± 2.5	PASS
		VN	30	0.78	0.000946	± 2.5	PASS
		VN	40	1.26	0.001528	± 2.5	PASS
		VN	50	1.06	0.001285	± 2.5	PASS
	MCH	VN	-30	4.53	0.005415	± 2.5	PASS



	VN	-20	-0.55	-0.000658	± 2.5	PASS	
		-10	2.04	0.002439	± 2.5	PASS	
		0	3.63	0.004340	± 2.5	PASS	
		10	4.98	0.005953	± 2.5	PASS	
		20	0.71	0.000849	± 2.5	PASS	
		30	0.08	0.000096	± 2.5	PASS	
		40	-1.71	-0.002044	± 2.5	PASS	
		50	-1.86	-0.002224	± 2.5	PASS	
	HCH	VN	-30	4.29	0.005057	± 2.5	PASS
		VN	-20	0.84	0.000990	± 2.5	PASS
		VN	-10	3.1	0.003654	± 2.5	PASS
		VN	0	3.73	0.004397	± 2.5	PASS
		VN	10	4.62	0.005446	± 2.5	PASS
		VN	20	4.71	0.005552	± 2.5	PASS
		VN	30	0.86	0.001014	± 2.5	PASS
		VN	40	4.92	0.005800	± 2.5	PASS
		VN	50	0.14	0.000165	± 2.5	PASS
		16QAM	LCH	VN	-30	3.1	0.003759
VN	-20			-1.44	-0.001746	± 2.5	PASS
VN	-10			1.04	0.001261	± 2.5	PASS
VN	0			-0.41	-0.000497	± 2.5	PASS
VN	10			4.43	0.005372	± 2.5	PASS
VN	20			4.48	0.005432	± 2.5	PASS
VN	30			-1.24	-0.001504	± 2.5	PASS
VN	40			3.78	0.004583	± 2.5	PASS
VN	50			2.08	0.002522	± 2.5	PASS
MCH	VN		-30	0.99	0.001167	± 2.5	PASS
	VN		-20	-1.37	-0.001615	± 2.5	PASS
	VN		-10	-1.09	-0.001285	± 2.5	PASS
	VN		0	1.81	0.002134	± 2.5	PASS
	VN		10	0.45	0.000530	± 2.5	PASS
	VN		20	3.74	0.004409	± 2.5	PASS
	VN		30	4.27	0.005034	± 2.5	PASS
	VN		40	0.91	0.001073	± 2.5	PASS
	VN		50	2.75	0.003242	± 2.5	PASS
HCH	VN		-30	-0.67	-0.000790	± 2.5	PASS
	VN		-20	4.22	0.004975	± 2.5	PASS
	VN		-10	0.36	0.000424	± 2.5	PASS
	VN		0	2.49	0.002935	± 2.5	PASS
	VN		10	2.04	0.002405	± 2.5	PASS
	VN		20	4.44	0.005234	± 2.5	PASS



		VN	30	-0.27	-0.000318	± 2.5	PASS
		VN	40	4.05	0.004774	± 2.5	PASS
		VN	50	3.12	0.003678	± 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	2.77	0.003356	± 2.5	PASS
		VN	TN	1.32	0.001599	± 2.5	PASS
		VH	TN	0.1	0.000121	± 2.5	PASS
	MCH	VL	TN	-1.59	-0.001901	± 2.5	PASS
		VN	TN	4.54	0.005427	± 2.5	PASS
		VH	TN	1.5	0.001793	± 2.5	PASS
	HCH	VL	TN	3.59	0.004236	± 2.5	PASS
		VN	TN	-0.95	-0.001121	± 2.5	PASS
		VH	TN	2.35	0.002773	± 2.5	PASS
16QAM	LCH	VL	TN	-0.74	-0.000896	± 2.5	PASS
		VN	TN	1.3	0.001575	± 2.5	PASS
		VH	TN	4.21	0.005100	± 2.5	PASS
	MCH	VL	TN	0.04	0.000048	± 2.5	PASS
		VN	TN	1.34	0.001602	± 2.5	PASS
		VH	TN	3.9	0.004662	± 2.5	PASS
	HCH	VL	TN	4.53	0.005345	± 2.5	PASS
		VN	TN	0.12	0.000142	± 2.5	PASS
		VH	TN	1.93	0.002277	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	4.23	0.005124	± 2.5	PASS
		VN	-20	4.54	0.005500	± 2.5	PASS
		VN	-10	0.7	0.000848	± 2.5	PASS
		VN	0	2.1	0.002544	± 2.5	PASS
		VN	10	3.53	0.004276	± 2.5	PASS
		VN	20	1.9	0.002302	± 2.5	PASS
		VN	30	1.93	0.002338	± 2.5	PASS
		VN	40	1.13	0.001369	± 2.5	PASS
		VN	50	0.65	0.000787	± 2.5	PASS
	MCH	VN	-30	3.74	0.004471	± 2.5	PASS
		VN	-20	3.74	0.004471	± 2.5	PASS





		VN	-10	-0.96	-0.001148	± 2.5	PASS	
		VN	0	3.75	0.004483	± 2.5	PASS	
		VN	10	4.15	0.004961	± 2.5	PASS	
		VN	20	4.7	0.005619	± 2.5	PASS	
		VN	30	-0.29	-0.000347	± 2.5	PASS	
		VN	40	4.45	0.005320	± 2.5	PASS	
		VN	50	0.88	0.001052	± 2.5	PASS	
	HCH	VN	-30	2.73	0.003221	± 2.5	PASS	
		VN	-20	2.8	0.003304	± 2.5	PASS	
		VN	-10	-1.02	-0.001204	± 2.5	PASS	
		VN	0	2.71	0.003198	± 2.5	PASS	
		VN	10	4.39	0.005180	± 2.5	PASS	
		VN	20	1.13	0.001333	± 2.5	PASS	
		VN	30	1.59	0.001876	± 2.5	PASS	
	16QAM	LCH	VN	40	4.43	0.005227	± 2.5	PASS
			VN	50	-1.76	-0.002077	± 2.5	PASS
			VN	-30	3.04	0.003634	± 2.5	PASS
			VN	-20	1.79	0.002140	± 2.5	PASS
VN			-10	3.56	0.004256	± 2.5	PASS	
VN			0	3.24	0.003873	± 2.5	PASS	
VN			10	-1.26	-0.001506	± 2.5	PASS	
VN			20	1.35	0.001614	± 2.5	PASS	
VN			30	-0.94	-0.001124	± 2.5	PASS	
MCH		VN	40	0.34	0.000406	± 2.5	PASS	
		VN	50	3.54	0.004232	± 2.5	PASS	
		VN	-30	0.39	0.000460	± 2.5	PASS	
		VN	-20	-1.89	-0.002230	± 2.5	PASS	
		VN	-10	1.54	0.001817	± 2.5	PASS	
		VN	0	2.64	0.003115	± 2.5	PASS	
		VN	10	4.55	0.005369	± 2.5	PASS	
		VN	20	-1.69	-0.001994	± 2.5	PASS	
		VN	30	-0.71	-0.000838	± 2.5	PASS	
HCH	VN	40	0.42	0.000496	± 2.5	PASS		
	VN	50	-0.47	-0.000555	± 2.5	PASS		
	VN	-30	4.13	0.004873	± 2.5	PASS		
	VN	-20	-1.87	-0.002206	± 2.5	PASS		
	VN	-10	2.57	0.003032	± 2.5	PASS		
	VN	0	4.38	0.005168	± 2.5	PASS		
	VN	10	4.94	0.005829	± 2.5	PASS		
VN	20	3.08	0.003634	± 2.5	PASS			
VN	30	1.23	0.001451	± 2.5	PASS			



		VN	40	2.1	0.002478	± 2.5	PASS
		VN	50	-1.74	-0.002053	± 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	2.77	0.003351	± 2.5	PASS
		VN	TN	3.8	0.004598	± 2.5	PASS
		VH	TN	2.95	0.003569	± 2.5	PASS
	MCH	VL	TN	4.56	0.005451	± 2.5	PASS
		VN	TN	3.86	0.004614	± 2.5	PASS
		VH	TN	-0.55	-0.000658	± 2.5	PASS
	HCH	VL	TN	1.6	0.001890	± 2.5	PASS
		VN	TN	-1.63	-0.001926	± 2.5	PASS
		VH	TN	3.01	0.003556	± 2.5	PASS
16QAM	LCH	VL	TN	1.56	0.001887	± 2.5	PASS
		VN	TN	4.02	0.004864	± 2.5	PASS
		VH	TN	-1.84	-0.002226	± 2.5	PASS
	MCH	VL	TN	3.56	0.004256	± 2.5	PASS
		VN	TN	4.74	0.005666	± 2.5	PASS
		VH	TN	3.11	0.003718	± 2.5	PASS
	HCH	VL	TN	-1.14	-0.001347	± 2.5	PASS
		VN	TN	3.67	0.004335	± 2.5	PASS
		VH	TN	0.21	0.000248	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	3.37	0.004077	± 2.5	PASS
		VN	-20	1.79	0.002166	± 2.5	PASS
		VN	-10	4.8	0.005808	± 2.5	PASS
		VN	0	-0.71	-0.000859	± 2.5	PASS
		VN	10	0.6	0.000726	± 2.5	PASS
		VN	20	1.49	0.001803	± 2.5	PASS
		VN	30	2.46	0.002976	± 2.5	PASS
		VN	40	0.7	0.000847	± 2.5	PASS
		VN	50	4.13	0.004997	± 2.5	PASS
	MCH	VN	-30	1.67	0.001996	± 2.5	PASS
		VN	-20	-1.14	-0.001363	± 2.5	PASS
		VN	-10	-0.06	-0.000072	± 2.5	PASS



		VN	0	-1.88	-0.002247	± 2.5	PASS		
		VN	10	1.16	0.001387	± 2.5	PASS		
		VN	20	0.32	0.000383	± 2.5	PASS		
		VN	30	4.77	0.005702	± 2.5	PASS		
		VN	40	3.95	0.004722	± 2.5	PASS		
		VN	50	-0.5	-0.000598	± 2.5	PASS		
	HCH	VN	-30	0.23	0.000272	± 2.5	PASS		
		VN	-20	3.88	0.004584	± 2.5	PASS		
		VN	-10	4.15	0.004903	± 2.5	PASS		
		VN	0	4.82	0.005694	± 2.5	PASS		
		VN	10	0.42	0.000496	± 2.5	PASS		
		VN	20	-0.89	-0.001051	± 2.5	PASS		
		VN	30	4.28	0.005056	± 2.5	PASS		
		VN	40	1.46	0.001725	± 2.5	PASS		
		VN	50	4.04	0.004773	± 2.5	PASS		
		16QAM	LCH	VN	-30	1.62	0.001937	± 2.5	PASS
				VN	-20	0.53	0.000634	± 2.5	PASS
				VN	-10	3.23	0.003861	± 2.5	PASS
VN	0			4.82	0.005762	± 2.5	PASS		
VN	10			2.23	0.002666	± 2.5	PASS		
VN	20			2.64	0.003156	± 2.5	PASS		
VN	30			4.22	0.005045	± 2.5	PASS		
VN	40			0.62	0.000741	± 2.5	PASS		
VN	50			3.38	0.004041	± 2.5	PASS		
MCH	VN		-30	-1.73	-0.002044	± 2.5	PASS		
	VN		-20	1.94	0.002292	± 2.5	PASS		
	VN		-10	2.72	0.003213	± 2.5	PASS		
	VN		0	2.9	0.003426	± 2.5	PASS		
	VN		10	2.96	0.003497	± 2.5	PASS		
	VN		20	4.8	0.005670	± 2.5	PASS		
	VN		30	3.73	0.004406	± 2.5	PASS		
	VN		40	1.52	0.001796	± 2.5	PASS		
	VN		50	4.47	0.005281	± 2.5	PASS		
HCH	VN		-30	4.32	0.005103	± 2.5	PASS		
	VN		-20	4.92	0.005812	± 2.5	PASS		
	VN		-10	-0.98	-0.001158	± 2.5	PASS		
	VN		0	1.45	0.001713	± 2.5	PASS		
	VN		10	-1.11	-0.001311	± 2.5	PASS		
	VN		20	0.89	0.001051	± 2.5	PASS		
	VN		30	-0.74	-0.000874	± 2.5	PASS		
	VN		40	2.8	0.003308	± 2.5	PASS		



		VN	50	3.27	0.003863	± 2.5	PASS
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**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	2.77	0.003341	± 2.5	PASS
		VN	TN	-0.02	-0.000024	± 2.5	PASS
		VH	TN	3.6	0.004343	± 2.5	PASS
	MCH	VL	TN	4.4	0.005260	± 2.5	PASS
		VN	TN	-1.94	-0.002319	± 2.5	PASS
		VH	TN	1.98	0.002367	± 2.5	PASS
	HCH	VL	TN	4.76	0.005640	± 2.5	PASS
		VN	TN	-1.51	-0.001789	± 2.5	PASS
		VH	TN	3.99	0.004727	± 2.5	PASS
16QAM	LCH	VL	TN	4.12	0.004970	± 2.5	PASS
		VN	TN	4.47	0.005392	± 2.5	PASS
		VH	TN	3.21	0.003872	± 2.5	PASS
	MCH	VL	TN	-1.07	-0.001279	± 2.5	PASS
		VN	TN	-1.73	-0.002068	± 2.5	PASS
		VH	TN	0.11	0.000132	± 2.5	PASS
	HCH	VL	TN	0.94	0.001114	± 2.5	PASS
		VN	TN	-1.87	-0.002216	± 2.5	PASS
		VH	TN	-1.19	-0.001410	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	0.36	0.000434	± 2.5	PASS
		VN	-20	2.42	0.002919	± 2.5	PASS
		VN	-10	0.02	0.000024	± 2.5	PASS
		VN	0	4.32	0.005211	± 2.5	PASS
		VN	10	0.59	0.000712	± 2.5	PASS
		VN	20	1.61	0.001942	± 2.5	PASS
		VN	30	4.55	0.005489	± 2.5	PASS
		VN	40	1.77	0.002135	± 2.5	PASS
		VN	50	3.15	0.003800	± 2.5	PASS
	MCH	VN	-30	-0.82	-0.000980	± 2.5	PASS
		VN	-20	0.46	0.000550	± 2.5	PASS
		VN	-10	3.81	0.004555	± 2.5	PASS
		VN	0	2.07	0.002475	± 2.5	PASS



		VN	10	3.53	0.004220	± 2.5	PASS
		VN	20	4.09	0.004889	± 2.5	PASS
		VN	30	-0.82	-0.000980	± 2.5	PASS
		VN	40	-1.11	-0.001327	± 2.5	PASS
		VN	50	-0.8	-0.000956	± 2.5	PASS
	HCH	VN	-30	4.12	0.004882	± 2.5	PASS
		VN	-20	-1.9	-0.002251	± 2.5	PASS
		VN	-10	-1.09	-0.001291	± 2.5	PASS
		VN	0	0.66	0.000782	± 2.5	PASS
		VN	10	-0.66	-0.000782	± 2.5	PASS
		VN	20	3.58	0.004242	± 2.5	PASS
		VN	30	2.69	0.003187	± 2.5	PASS
		VN	40	1.14	0.001351	± 2.5	PASS
		VN	50	2.47	0.002927	± 2.5	PASS
		16QAM	LCH	VN	-30	-1.49	-0.001781
VN	-20			-0.58	-0.000693	± 2.5	PASS
VN	-10			1.12	0.001339	± 2.5	PASS
VN	0			-1.04	-0.001243	± 2.5	PASS
VN	10			2.61	0.003120	± 2.5	PASS
VN	20			4.94	0.005906	± 2.5	PASS
VN	30			-0.85	-0.001016	± 2.5	PASS
VN	40			2.95	0.003527	± 2.5	PASS
VN	50			3.53	0.004220	± 2.5	PASS
MCH	VN		-30	3.31	0.003922	± 2.5	PASS
	VN		-20	4.35	0.005154	± 2.5	PASS
	VN		-10	0.36	0.000427	± 2.5	PASS
	VN		0	4.92	0.005829	± 2.5	PASS
	VN		10	4.03	0.004775	± 2.5	PASS
	VN		20	-0.78	-0.000924	± 2.5	PASS
	VN		30	1.58	0.001872	± 2.5	PASS
	VN		40	-1.15	-0.001363	± 2.5	PASS
	VN		50	4.25	0.005036	± 2.5	PASS
HCH	VN		-30	3.64	0.004313	± 2.5	PASS
	VN		-20	2.45	0.002903	± 2.5	PASS
	VN		-10	2.61	0.003092	± 2.5	PASS
	VN		0	2.34	0.002773	± 2.5	PASS
	VN		10	4.88	0.005782	± 2.5	PASS
	VN		20	-1.36	-0.001611	± 2.5	PASS
	VN		30	3.04	0.003602	± 2.5	PASS
	VN		40	-1.38	-0.001635	± 2.5	PASS
	VN		50	1.19	0.001410	± 2.5	PASS