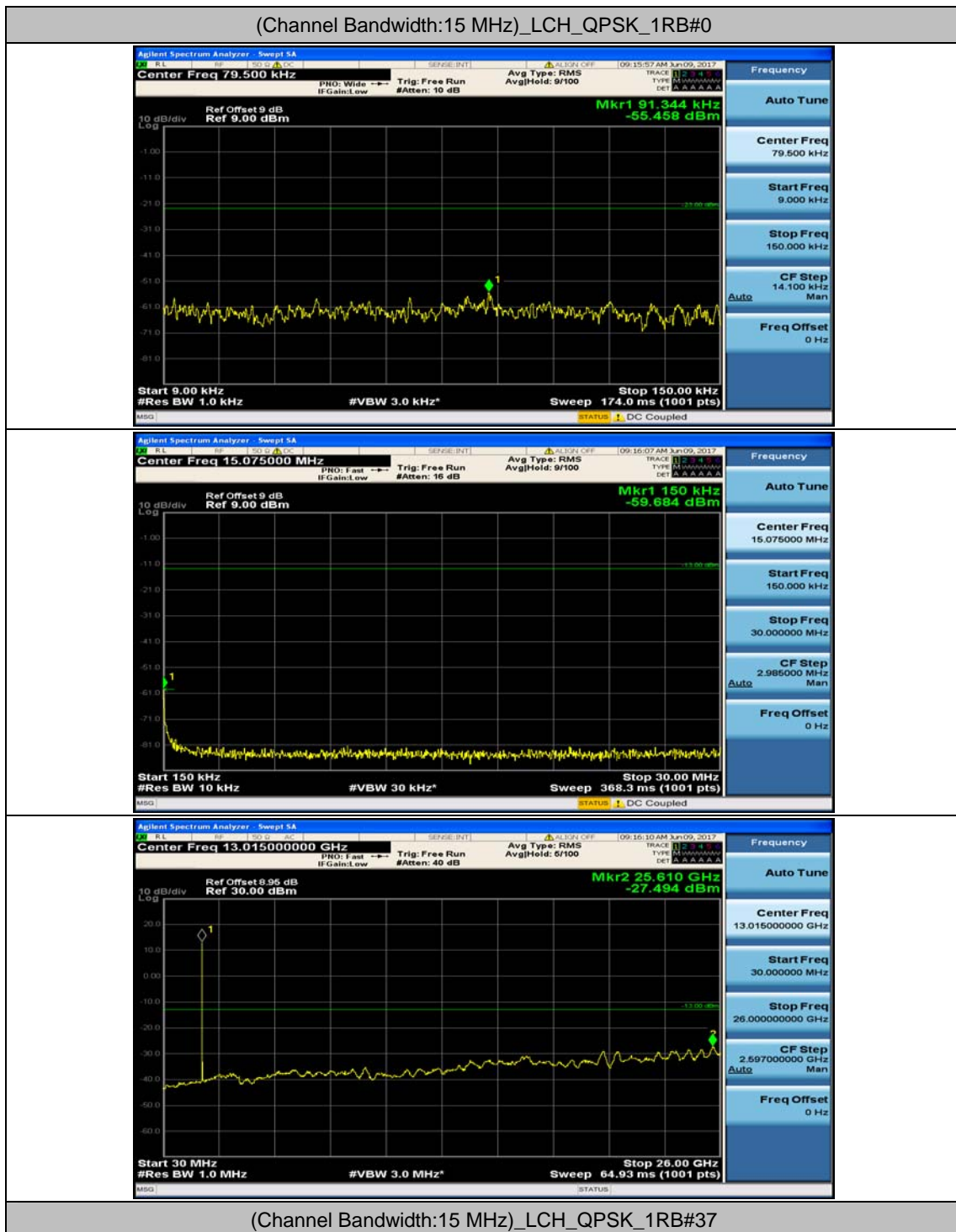
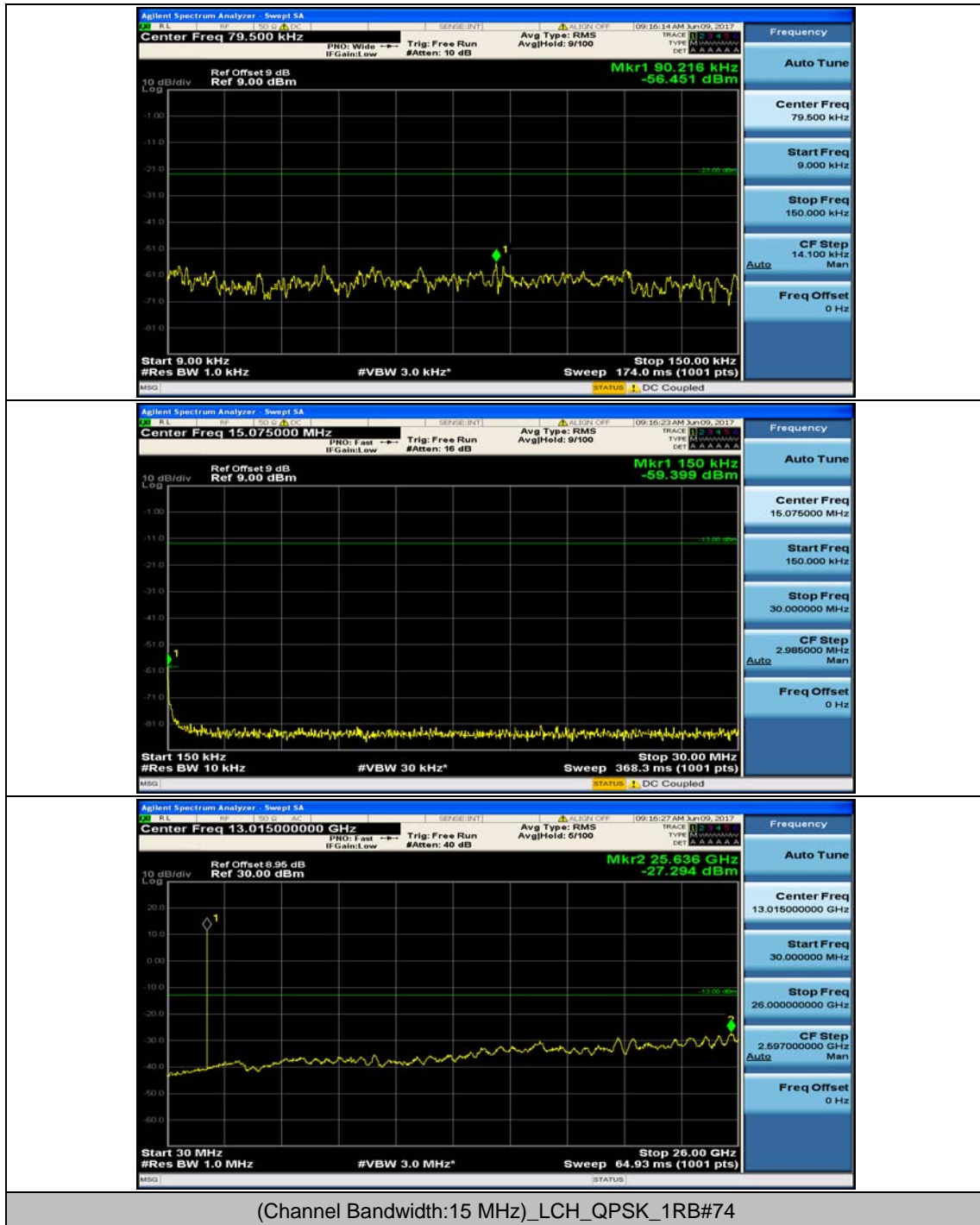
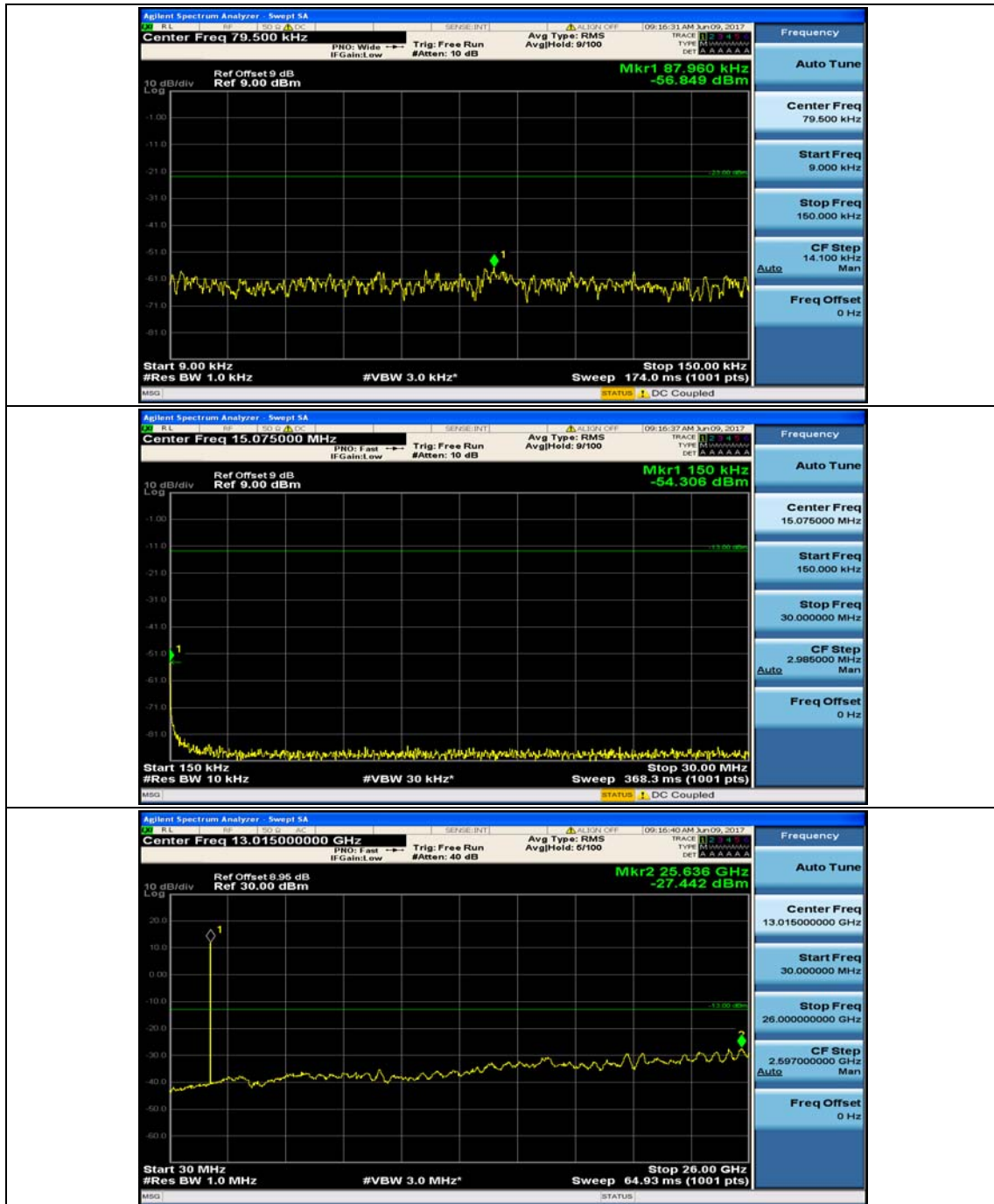


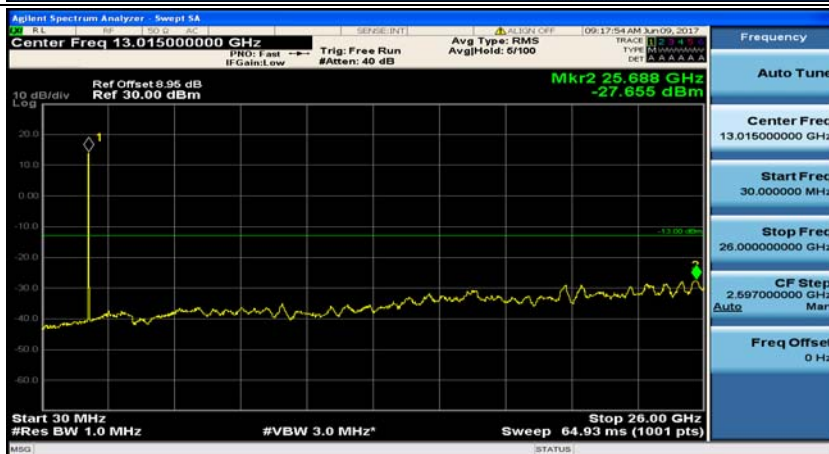
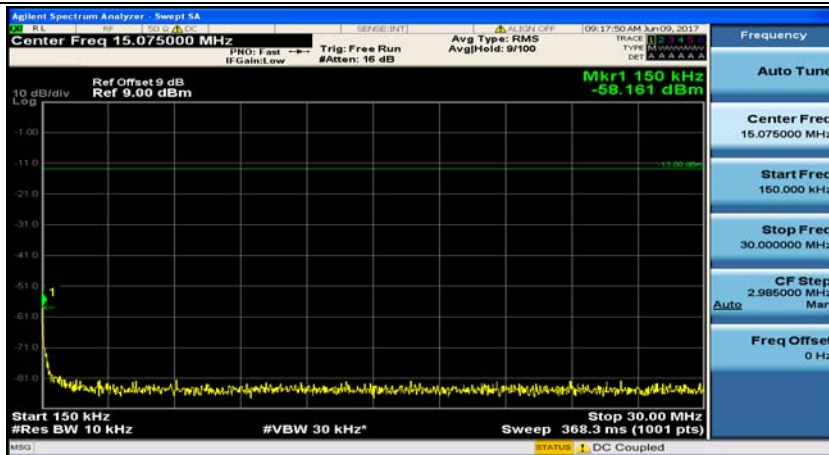
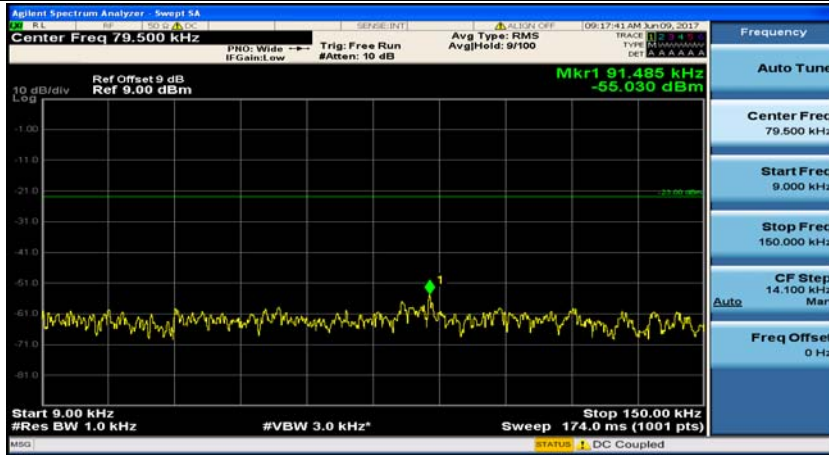
Channel Bandwidth: 15 MHz



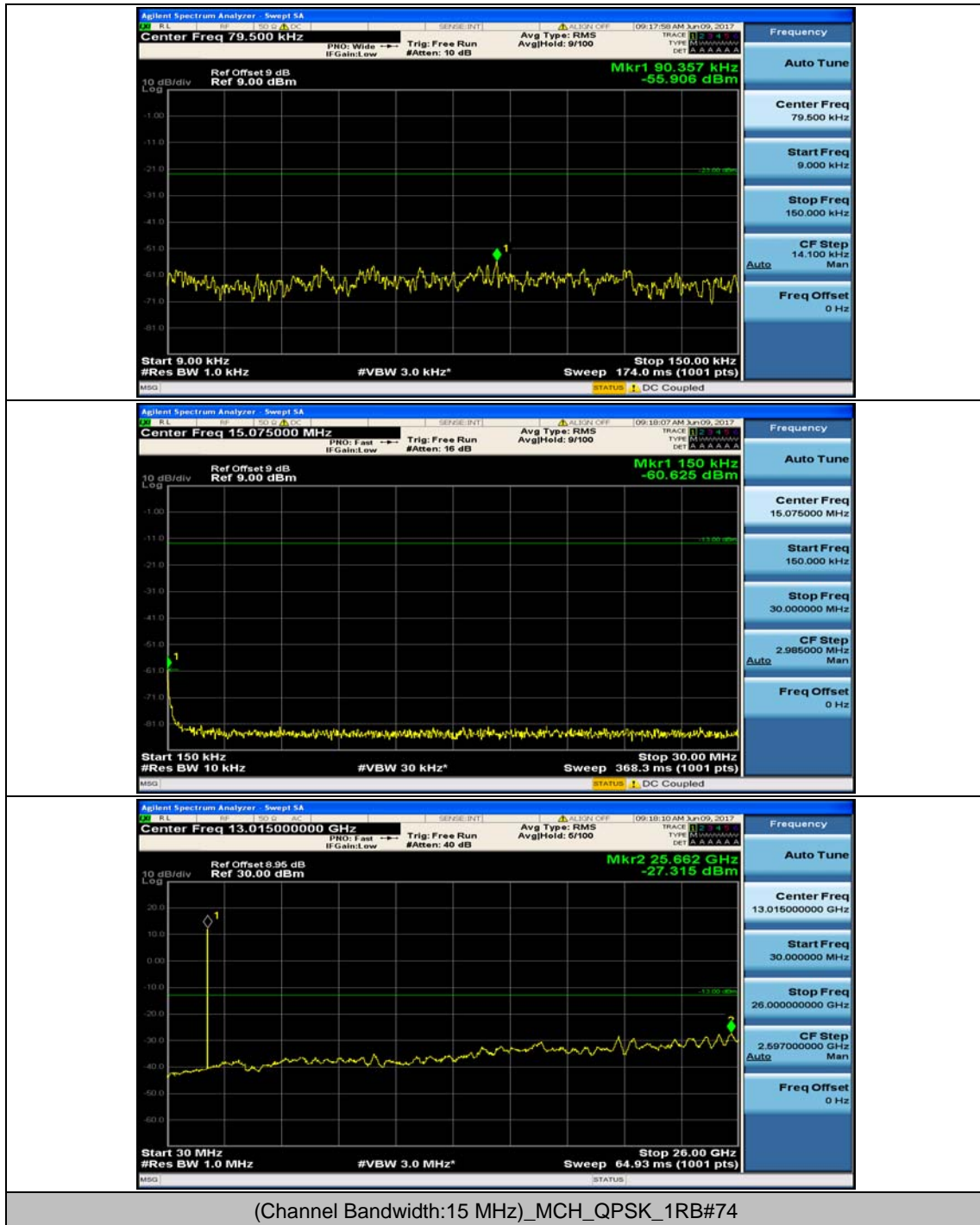


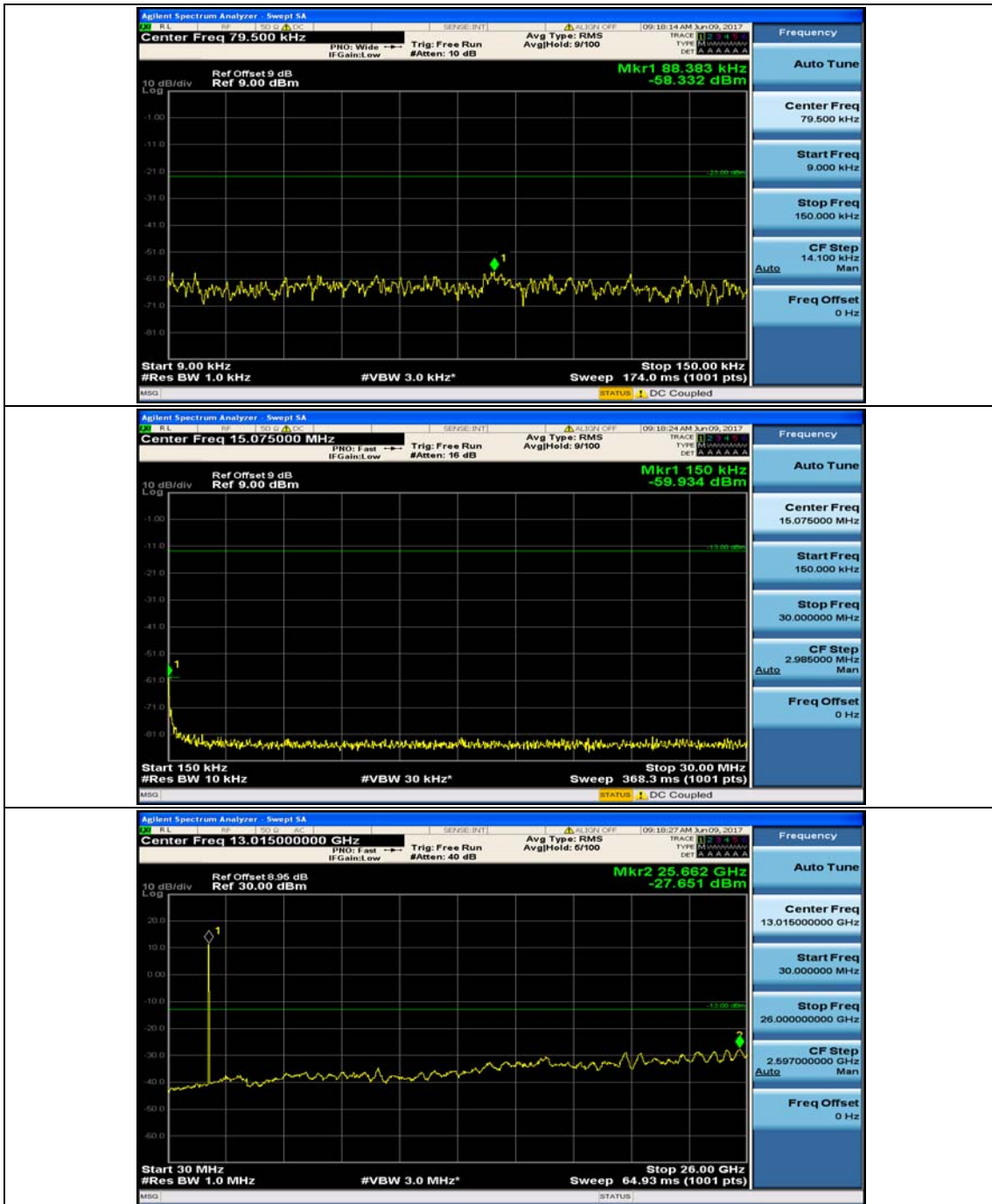


(Channel Bandwidth:15 MHz)_MCH_QPSK_1RB#0

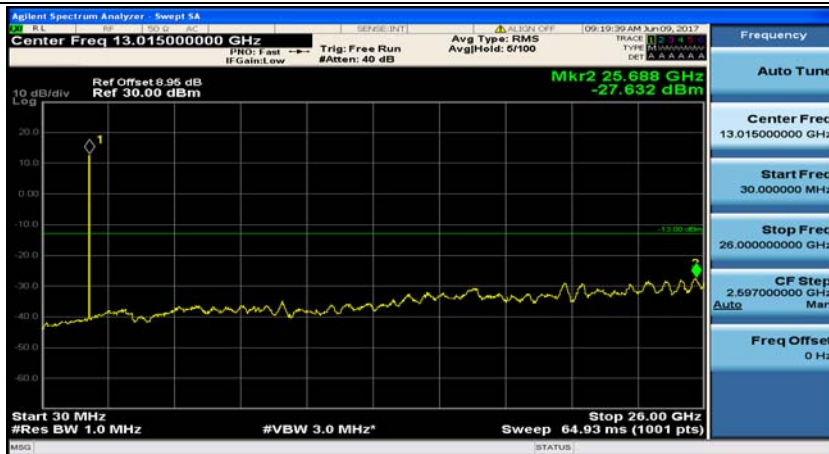
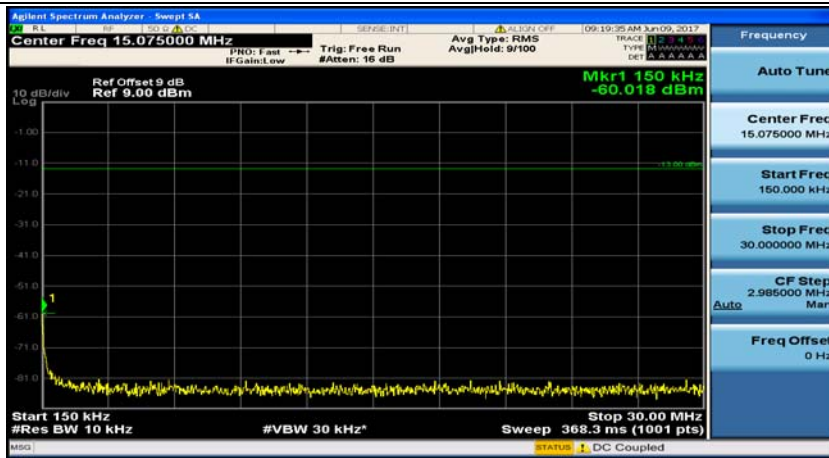


(Channel Bandwidth:15 MHz)_MCH_QPSK_1RB#37

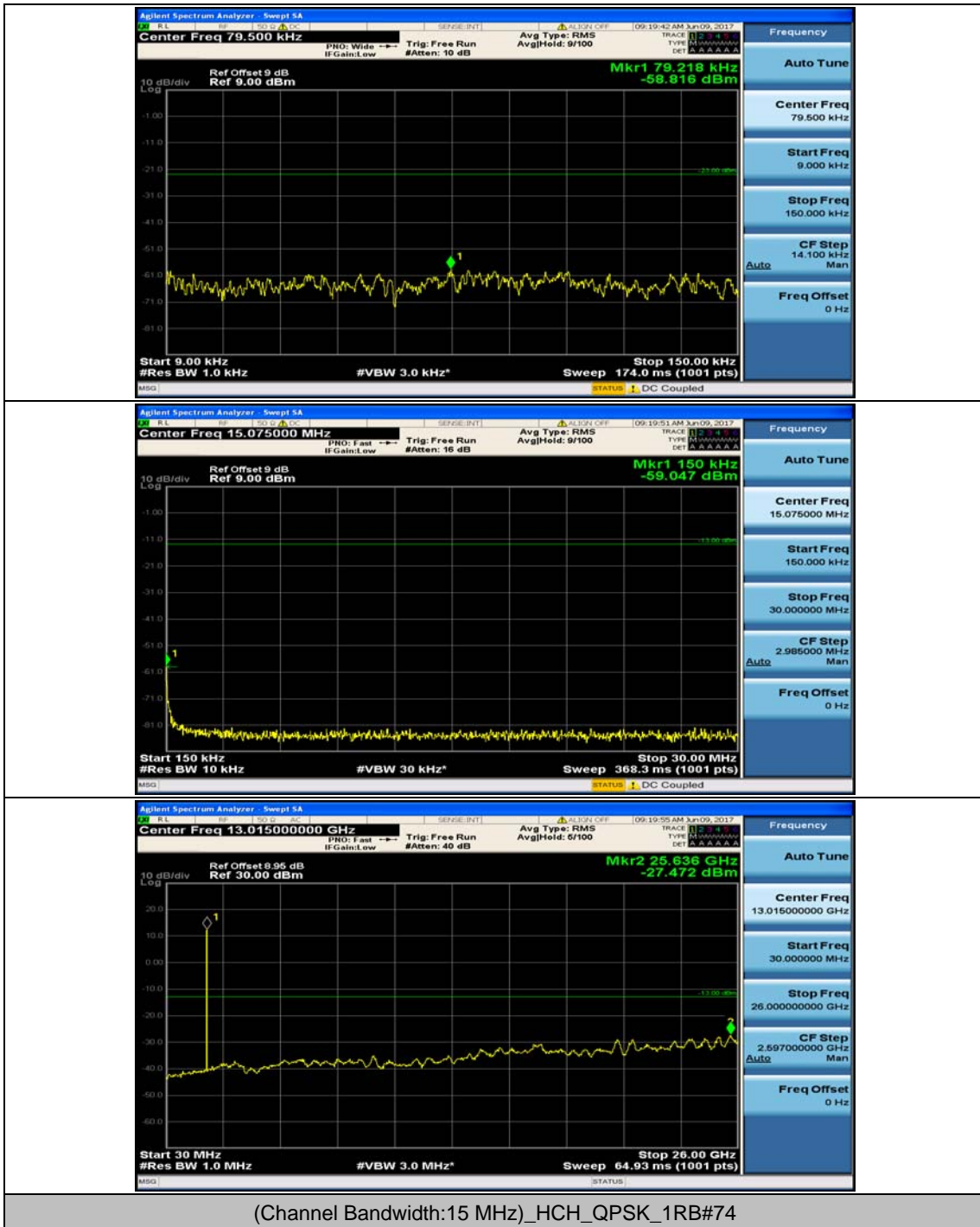


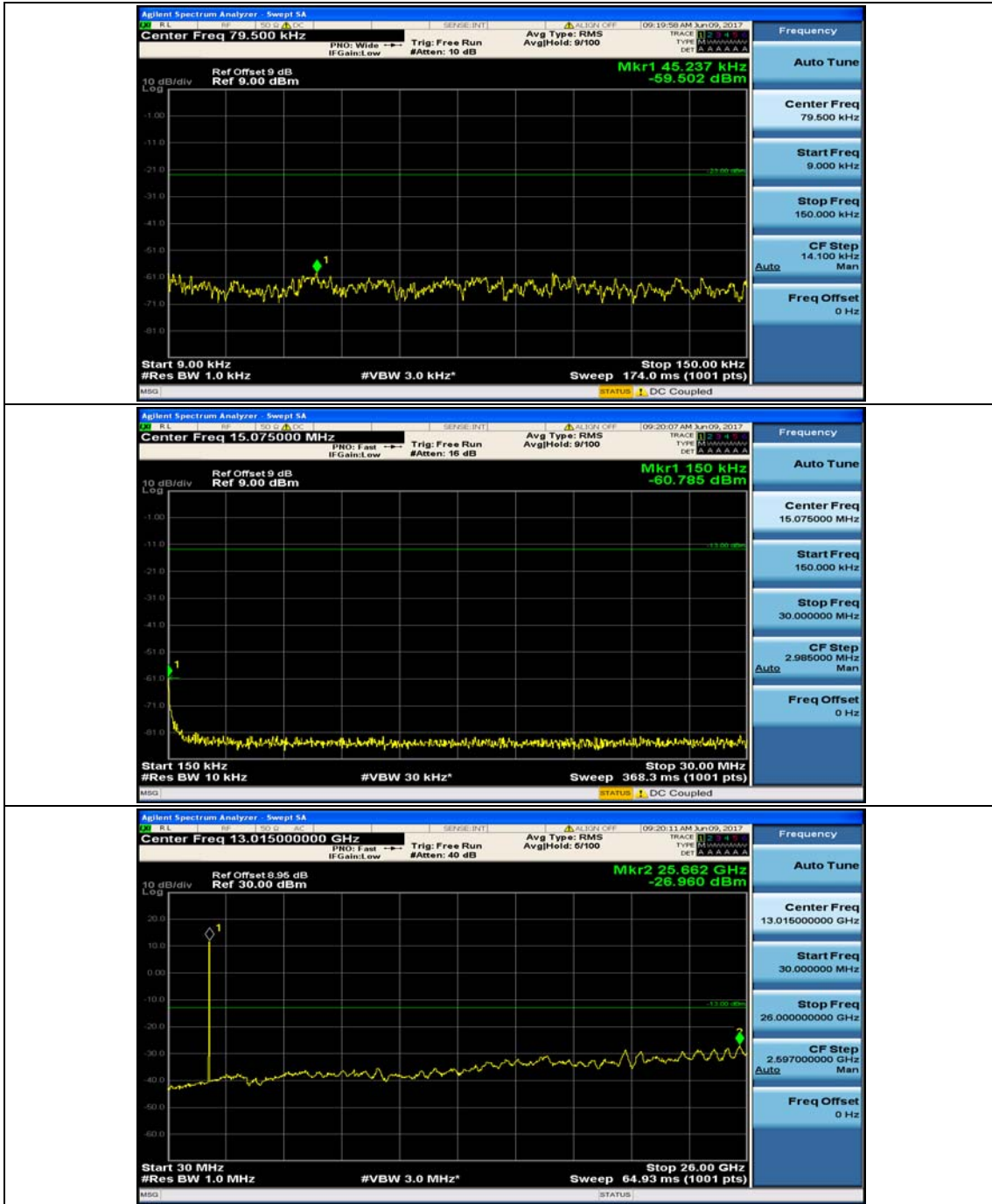


(Channel Bandwidth:15 MHz)_HCH_QPSK_1RB#0

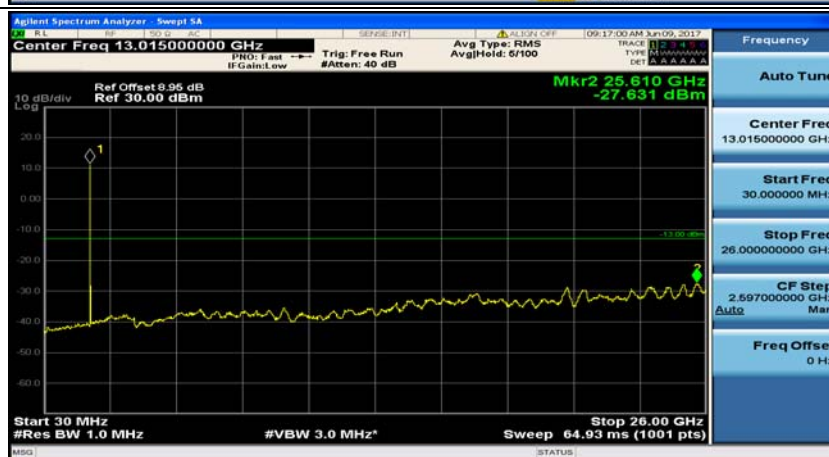
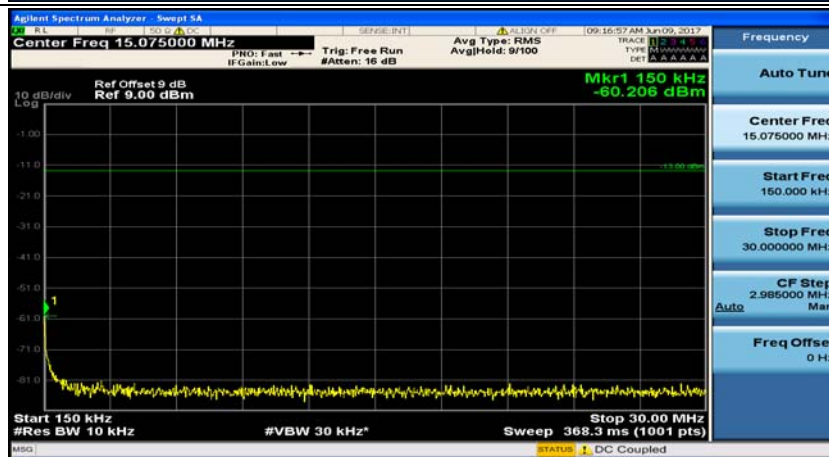
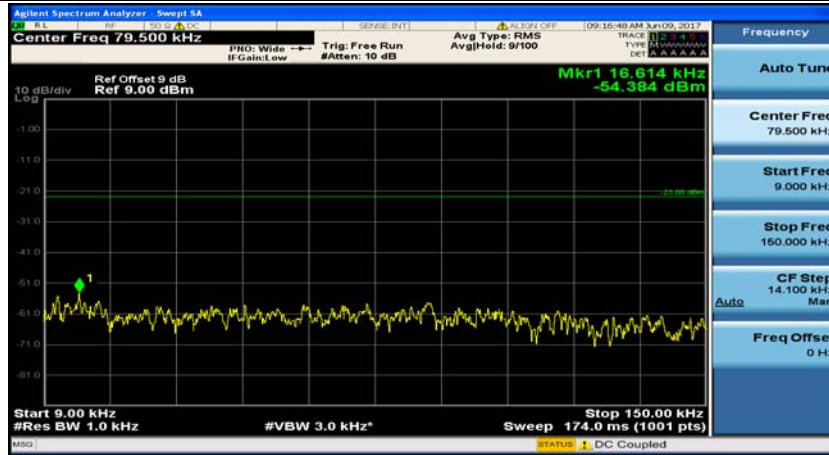


(Channel Bandwidth:15 MHz)_HCH_QPSK_1RB#37

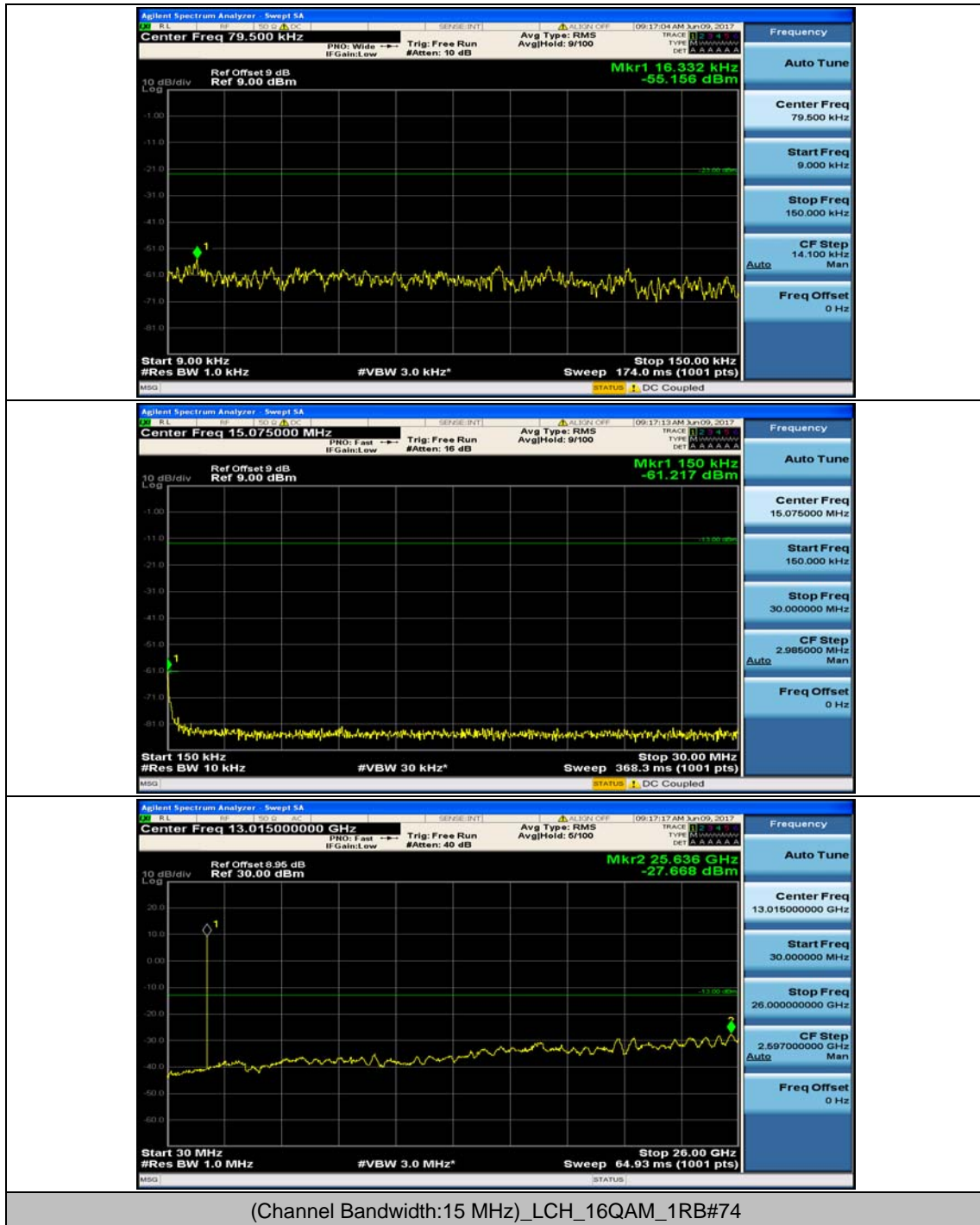


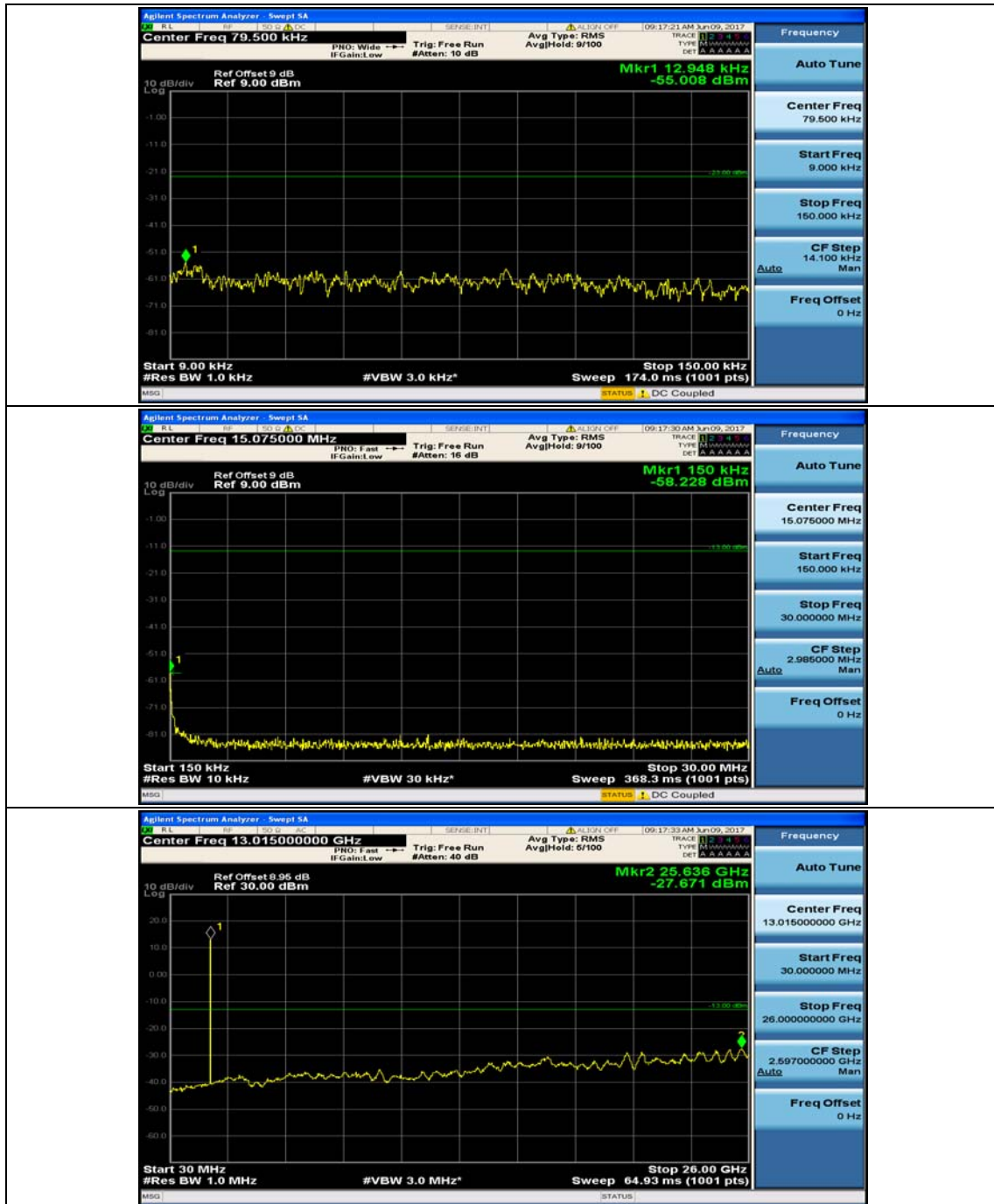


(Channel Bandwidth:15 MHz)_LCH_16QAM_1RB#0

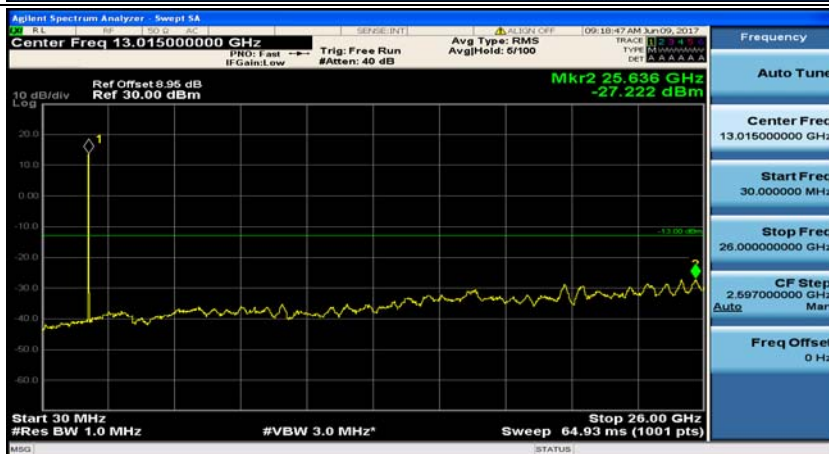
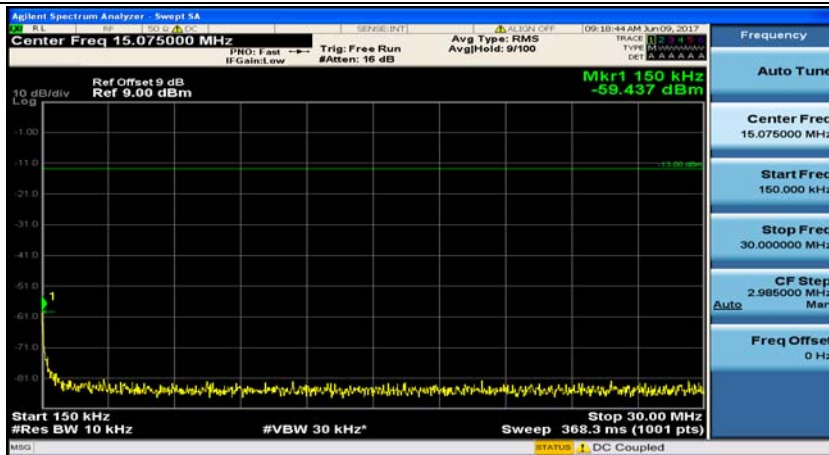
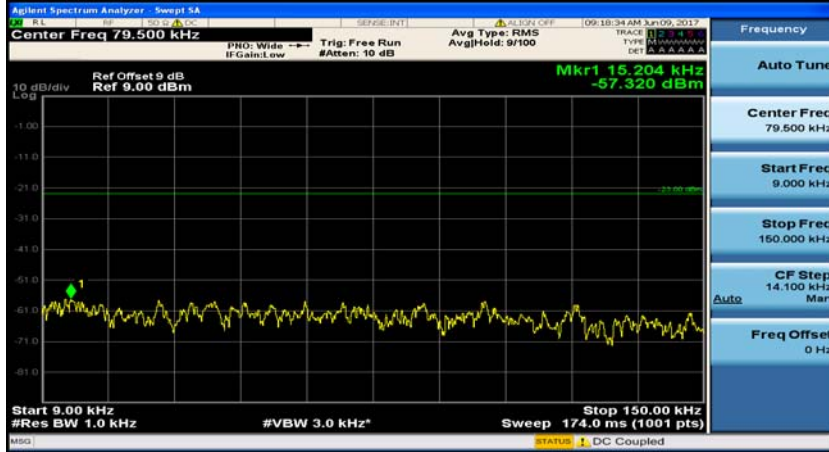


(Channel Bandwidth:15 MHz)_LCH_16QAM_1RB#37

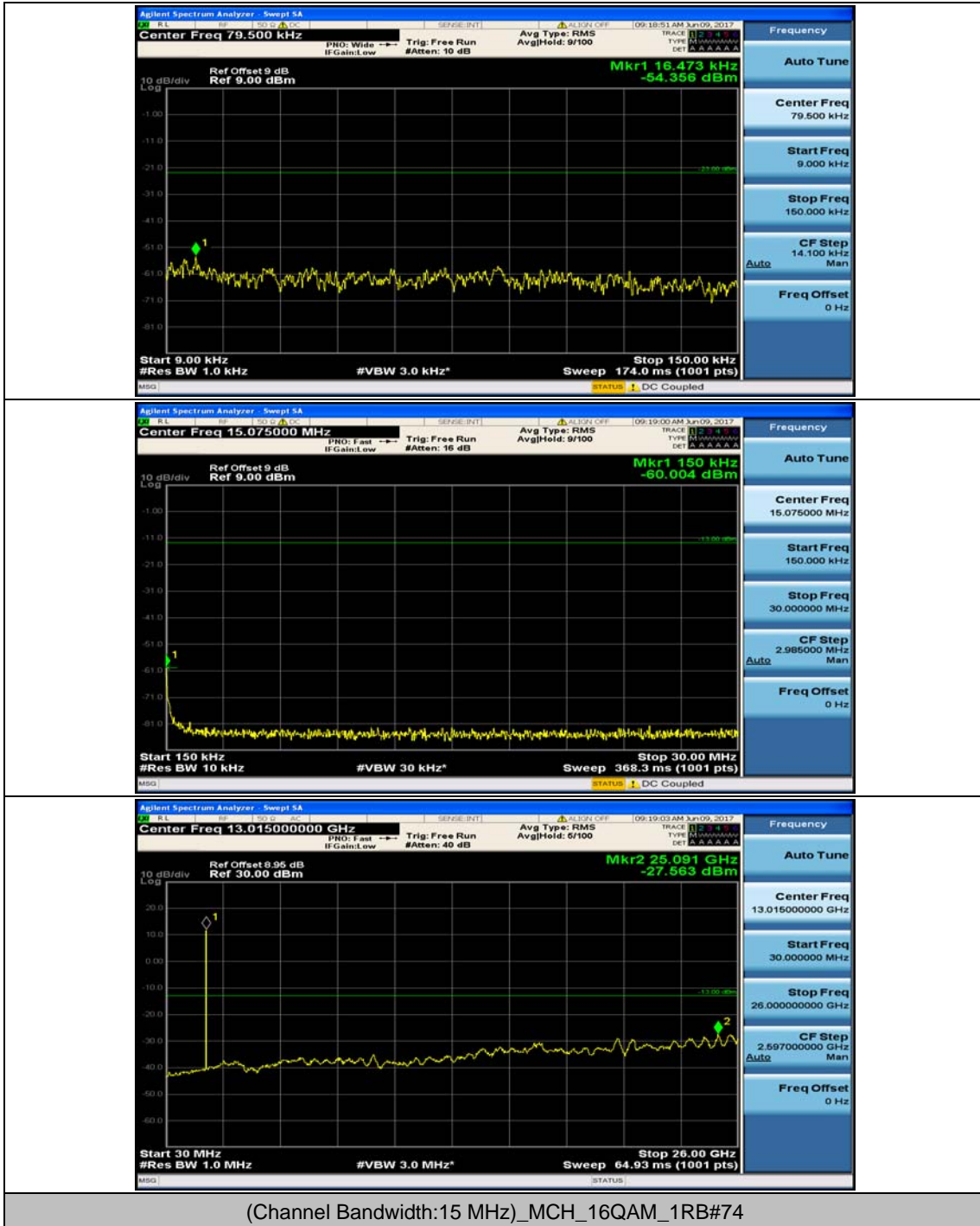


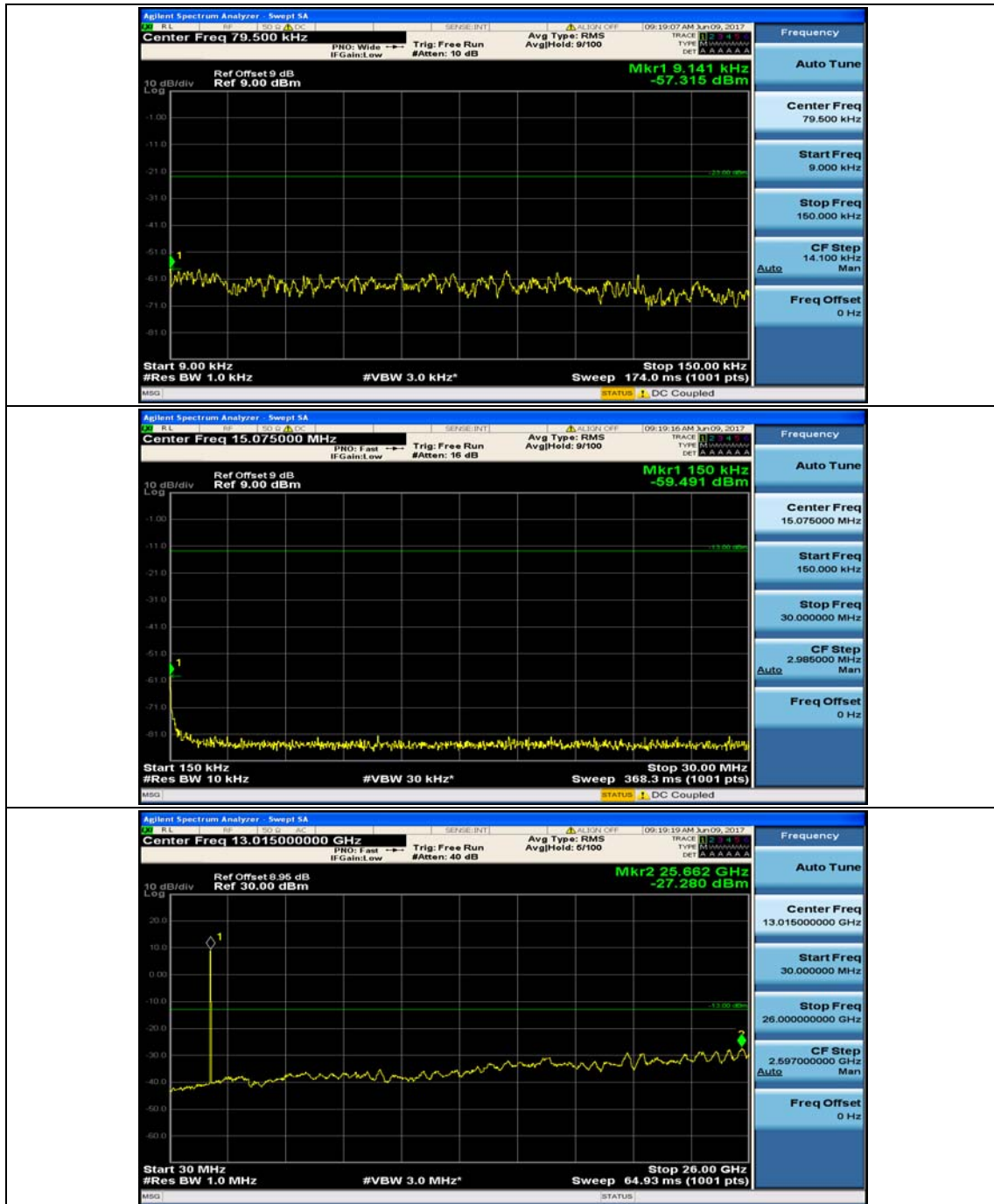


(Channel Bandwidth:15 MHz)_MCH_16QAM_1RB#0

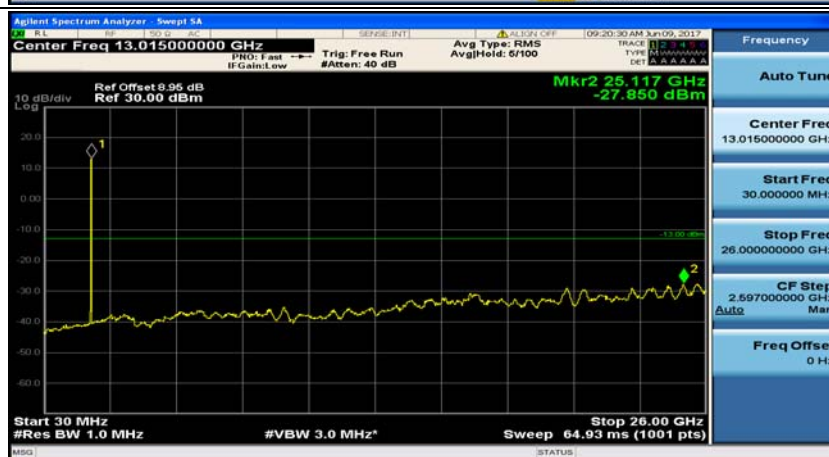
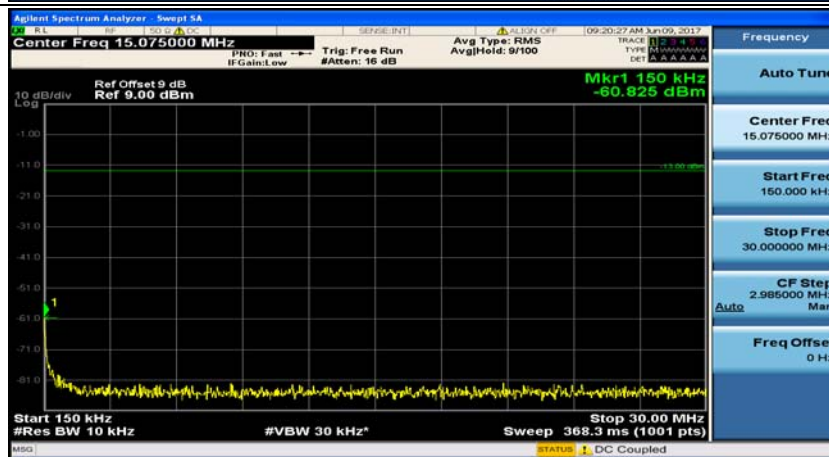
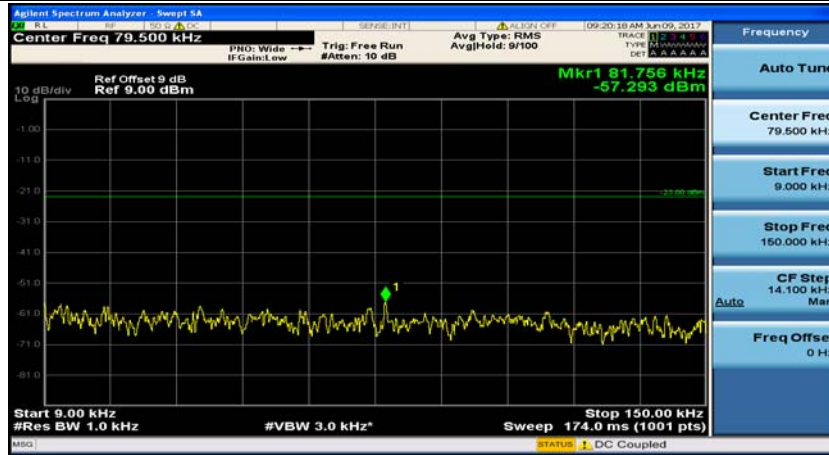


(Channel Bandwidth:15 MHz)_MCH_16QAM_1RB#37

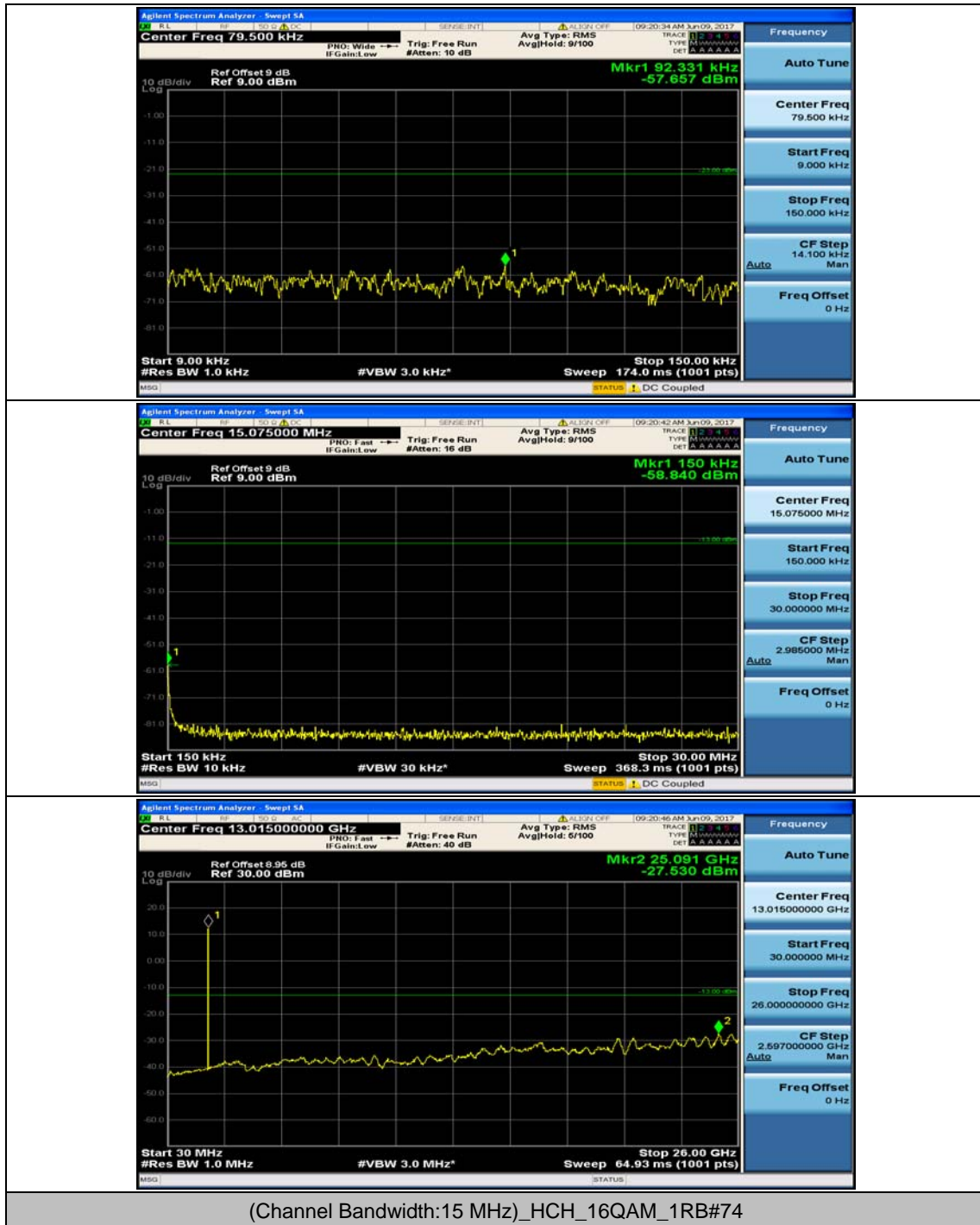


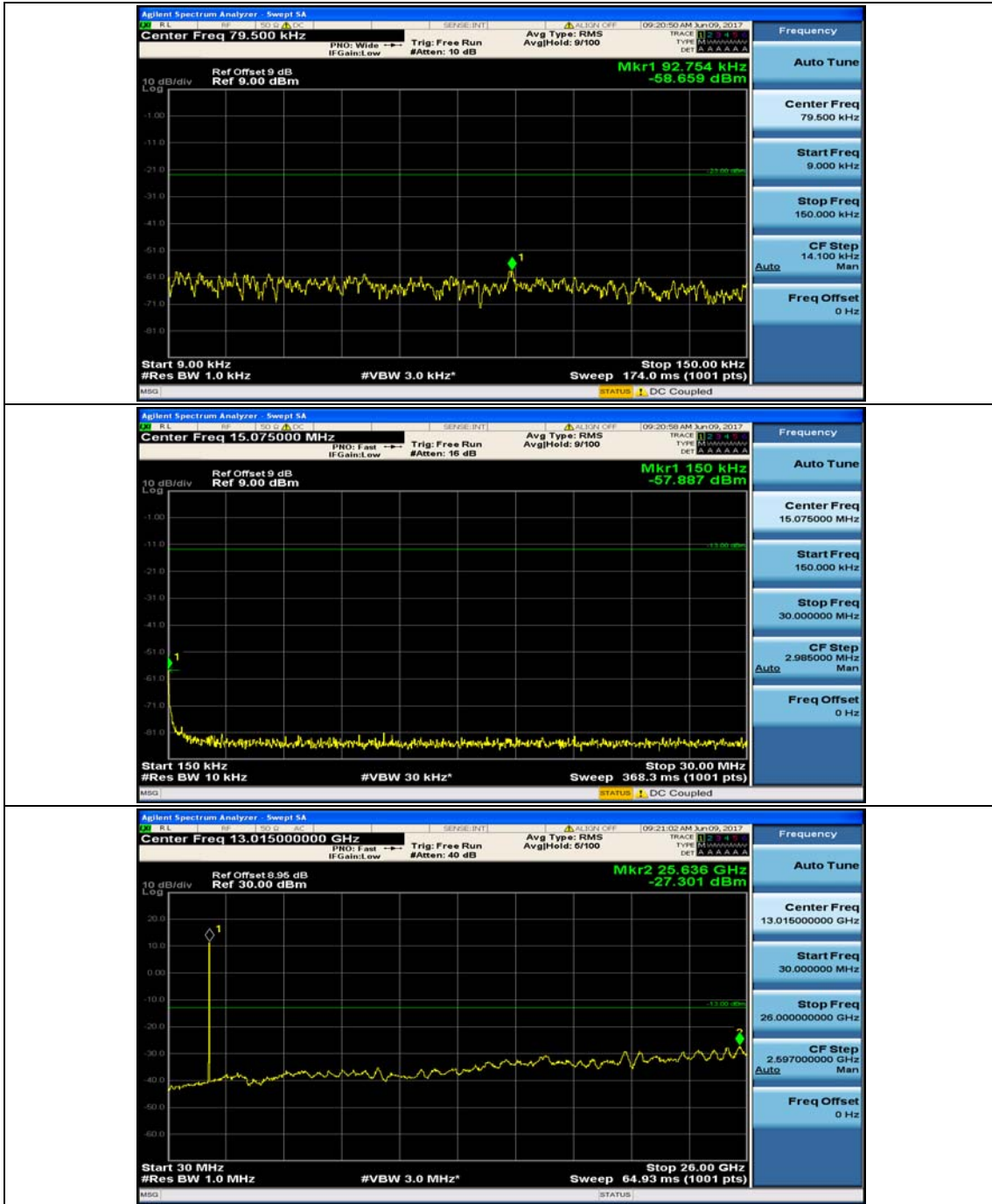


(Channel Bandwidth:15 MHz)_HCH_16QAM_1RB#0

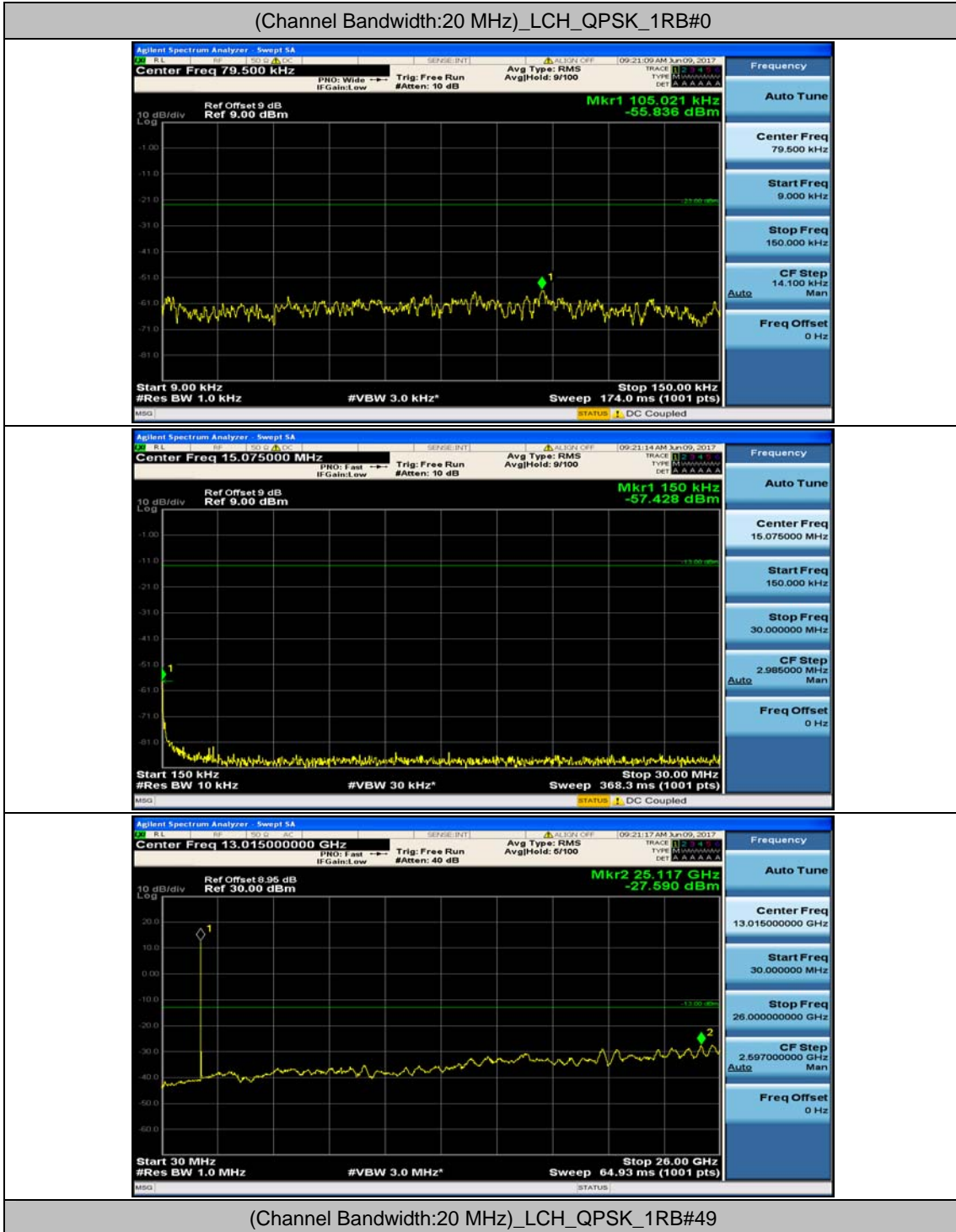


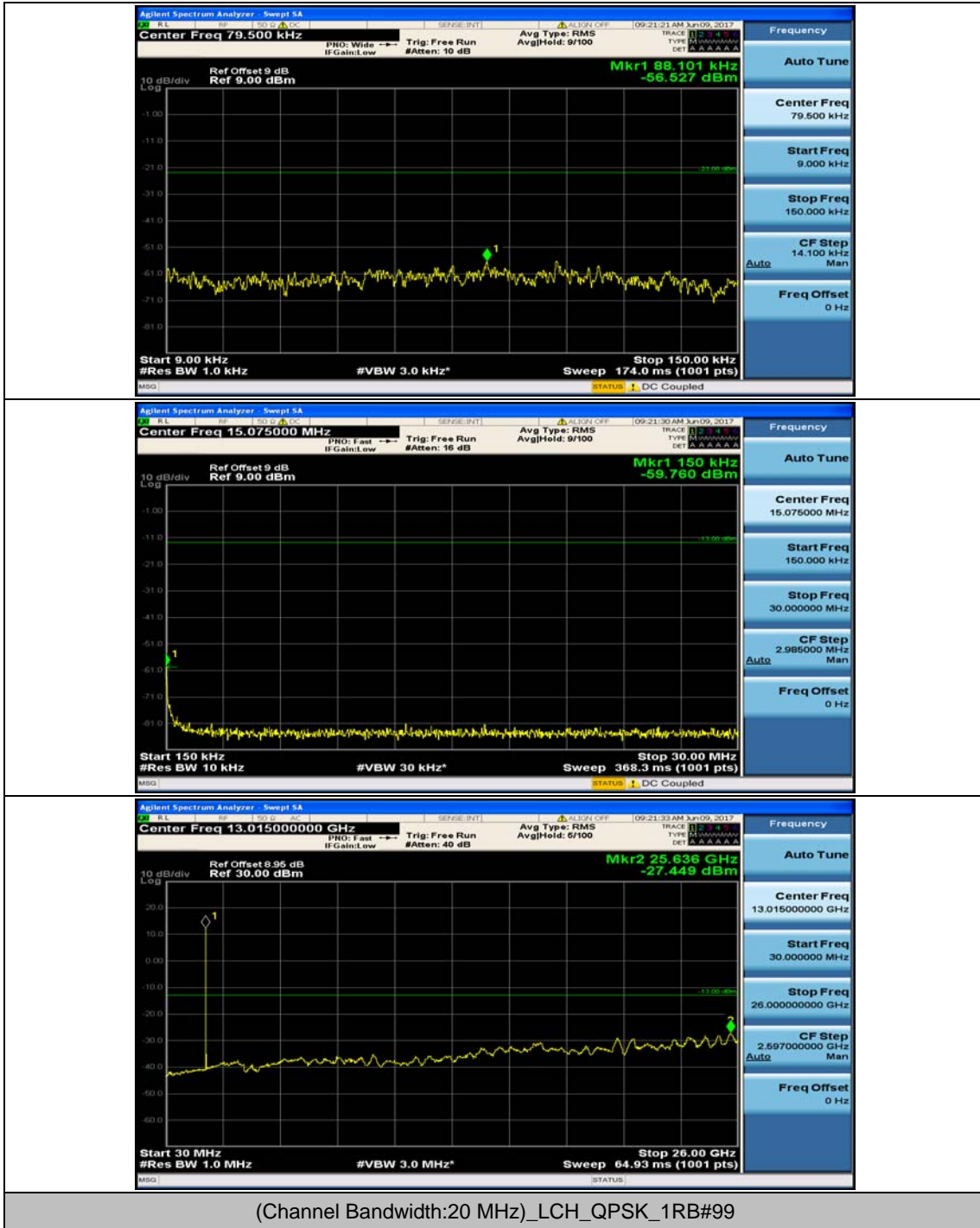
(Channel Bandwidth:15 MHz)_HCH_16QAM_1RB#37

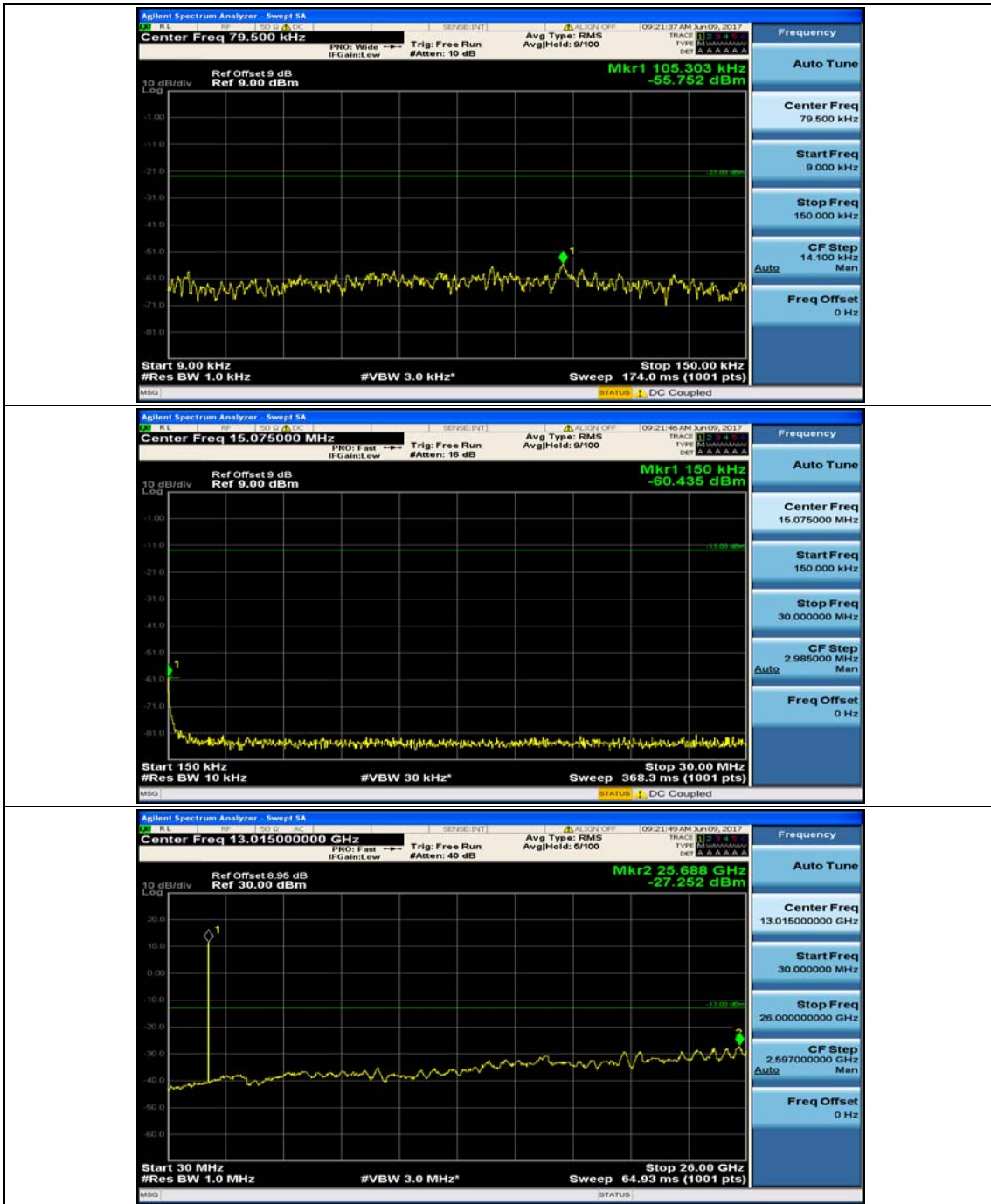




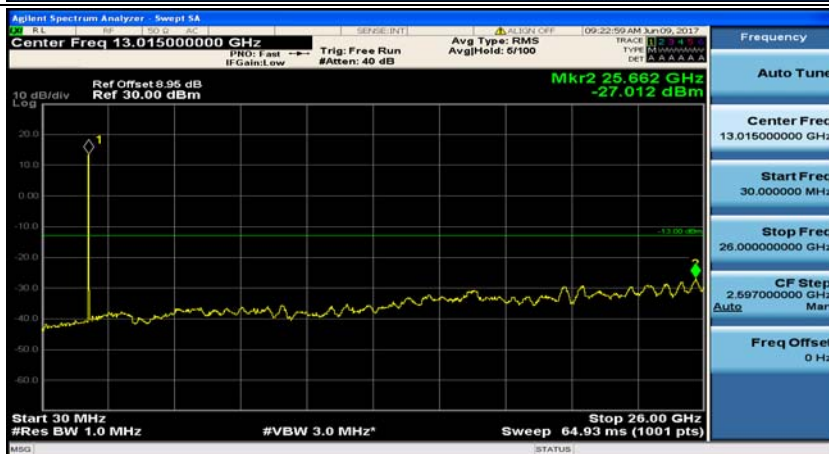
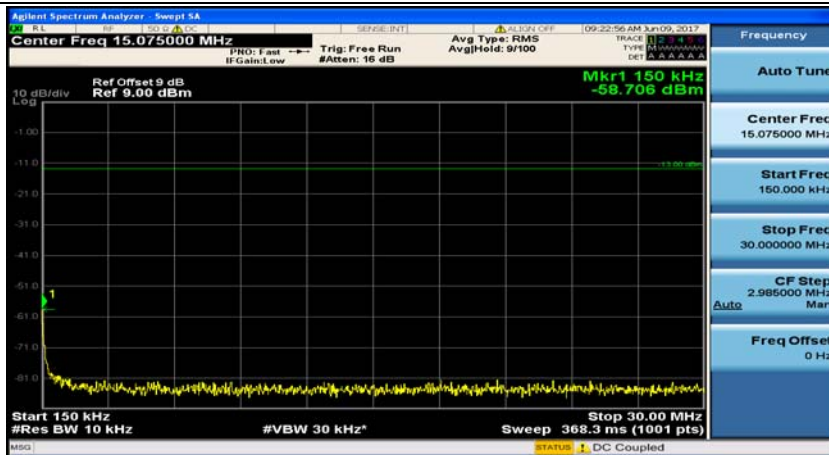
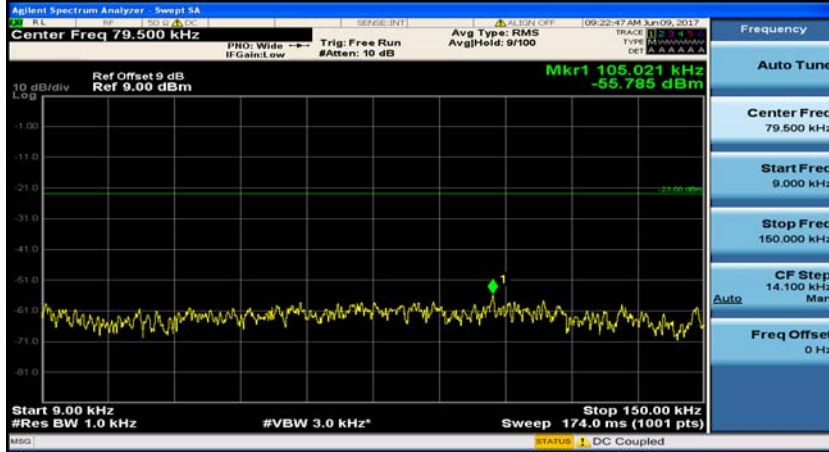
Channel Bandwidth: 20 MHz



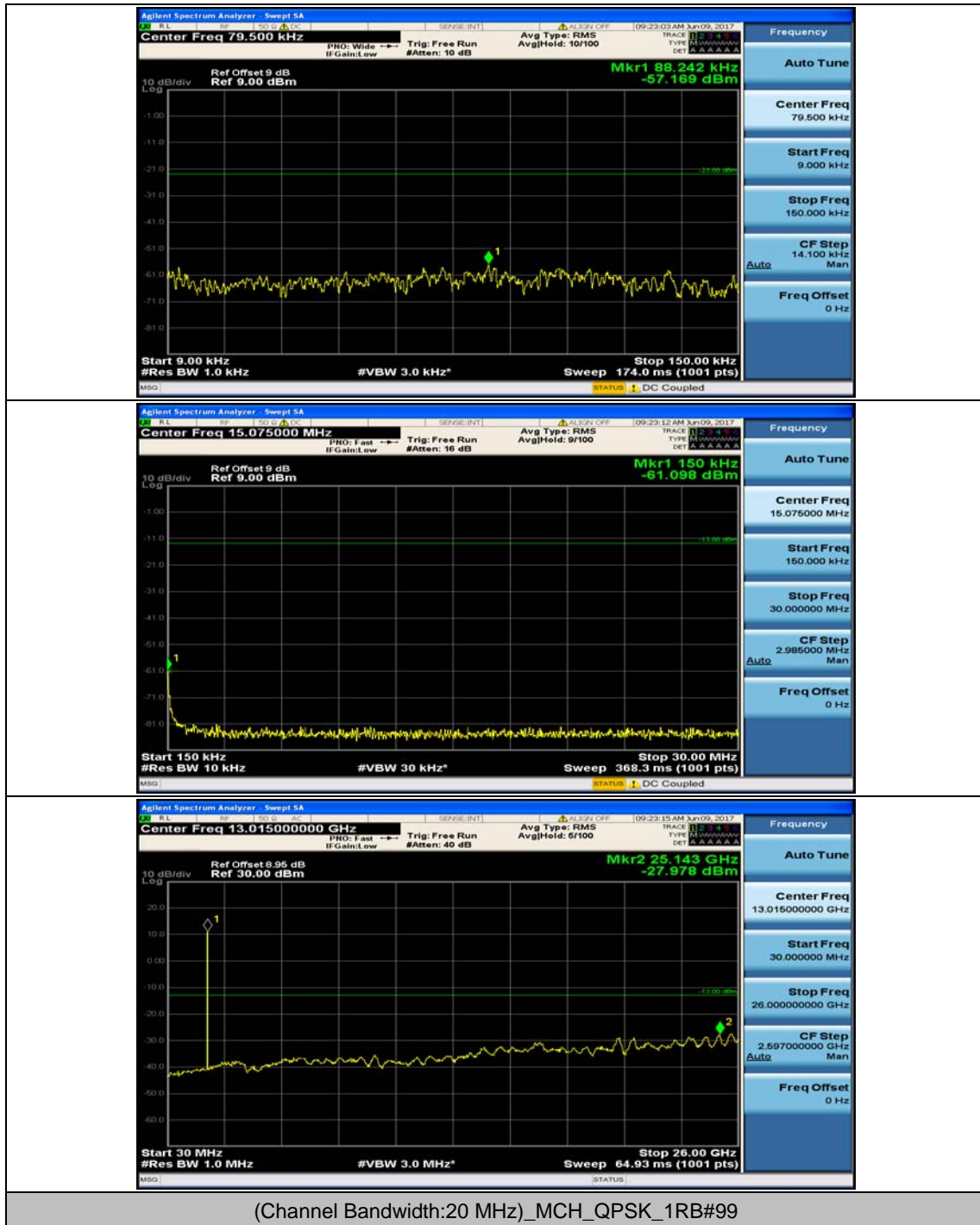


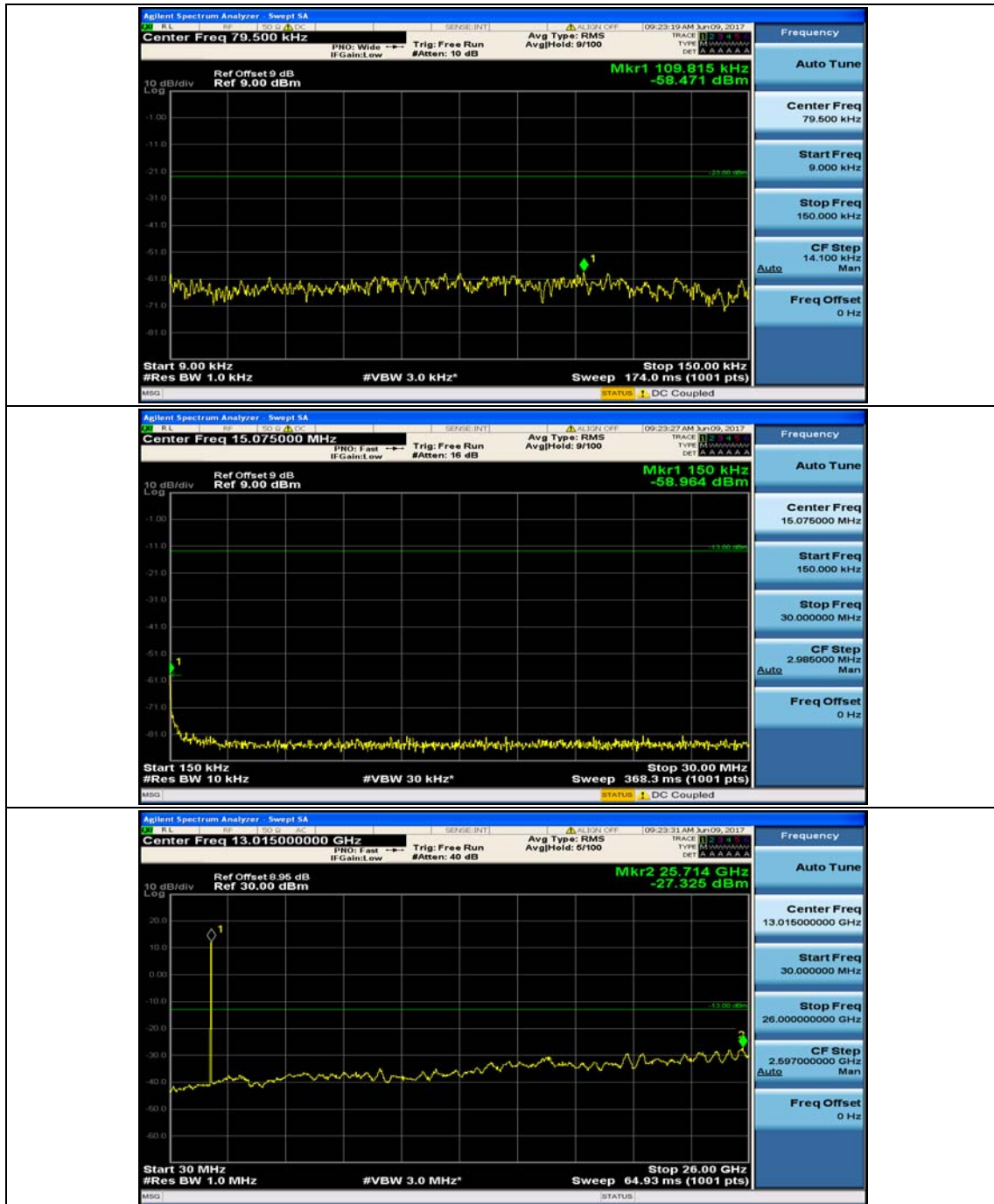


(Channel Bandwidth:20 MHz)_MCH_QPSK_1RB#0

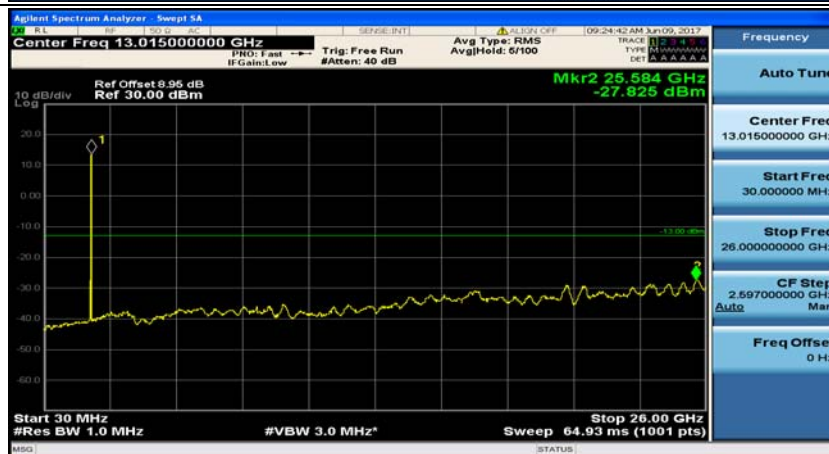
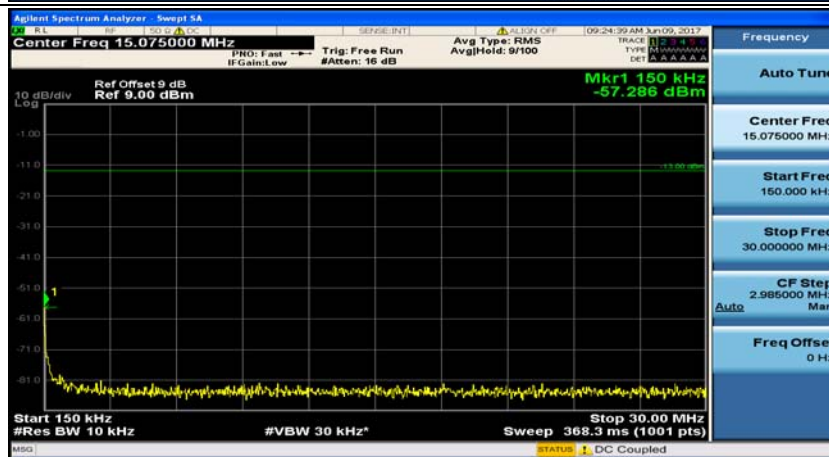
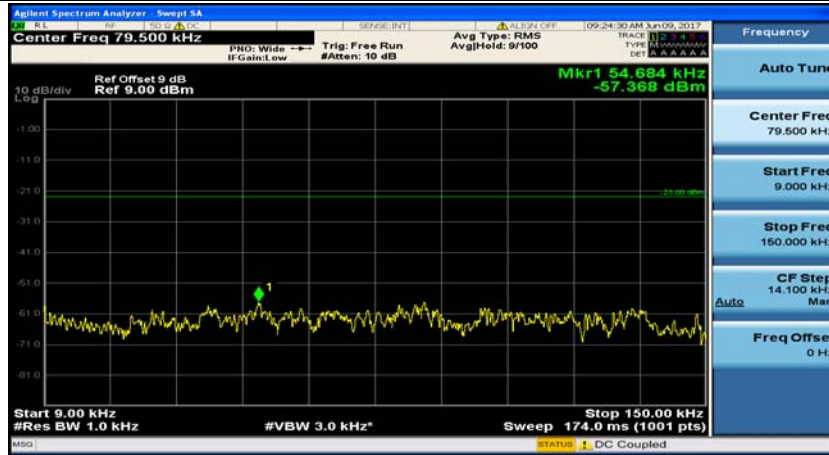


(Channel Bandwidth:20 MHz)_MCH_QPSK_1RB#49

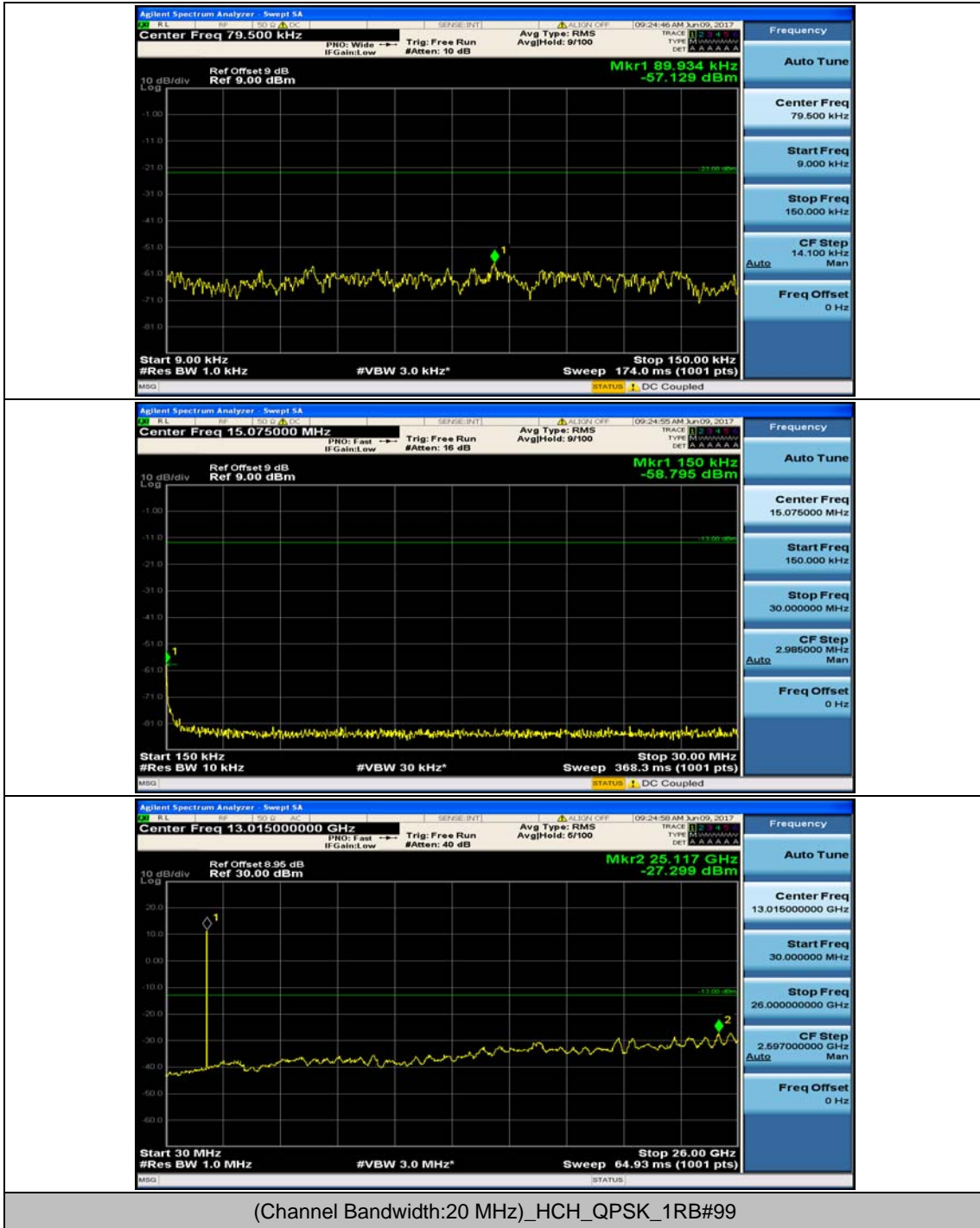


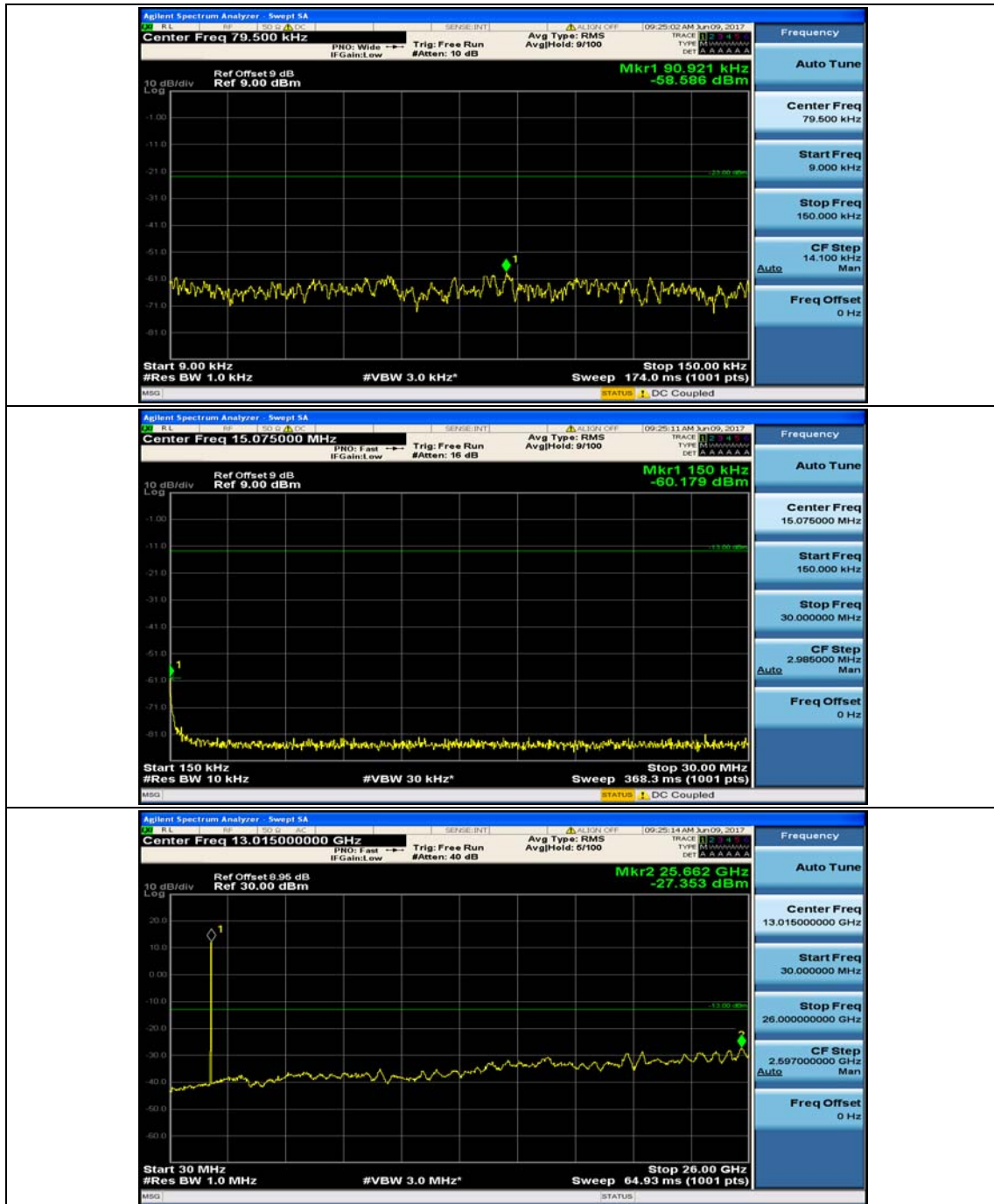


(Channel Bandwidth:20 MHz)_HCH_QPSK_1RB#0

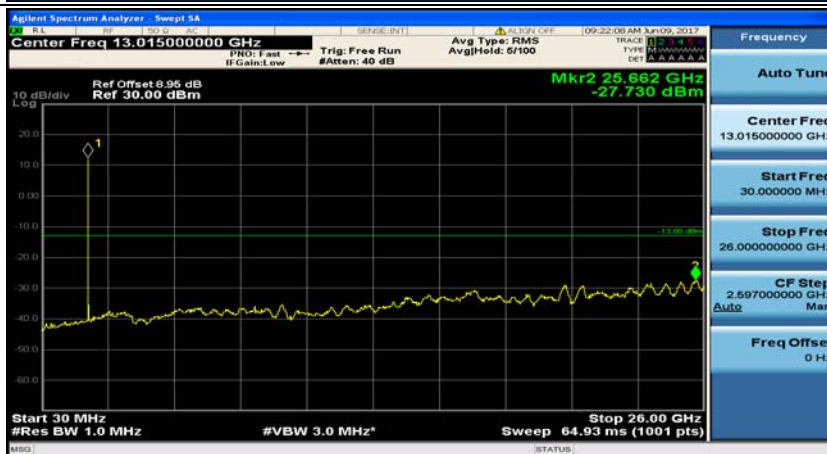
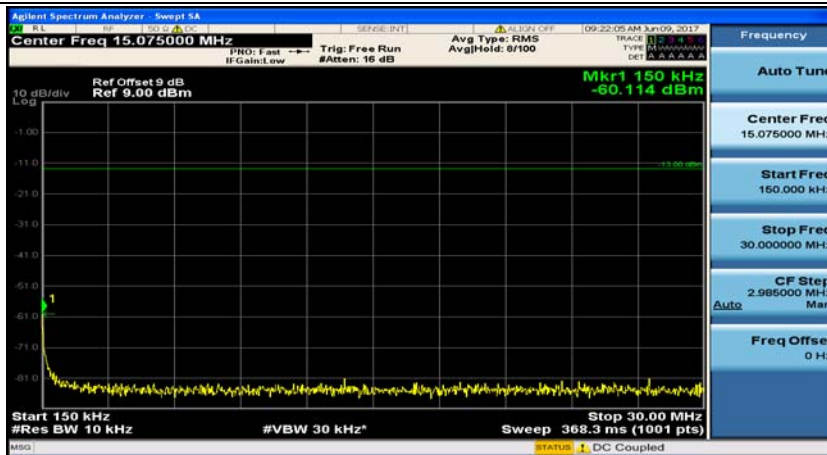


(Channel Bandwidth:20 MHz)_HCH_QPSK_1RB#49

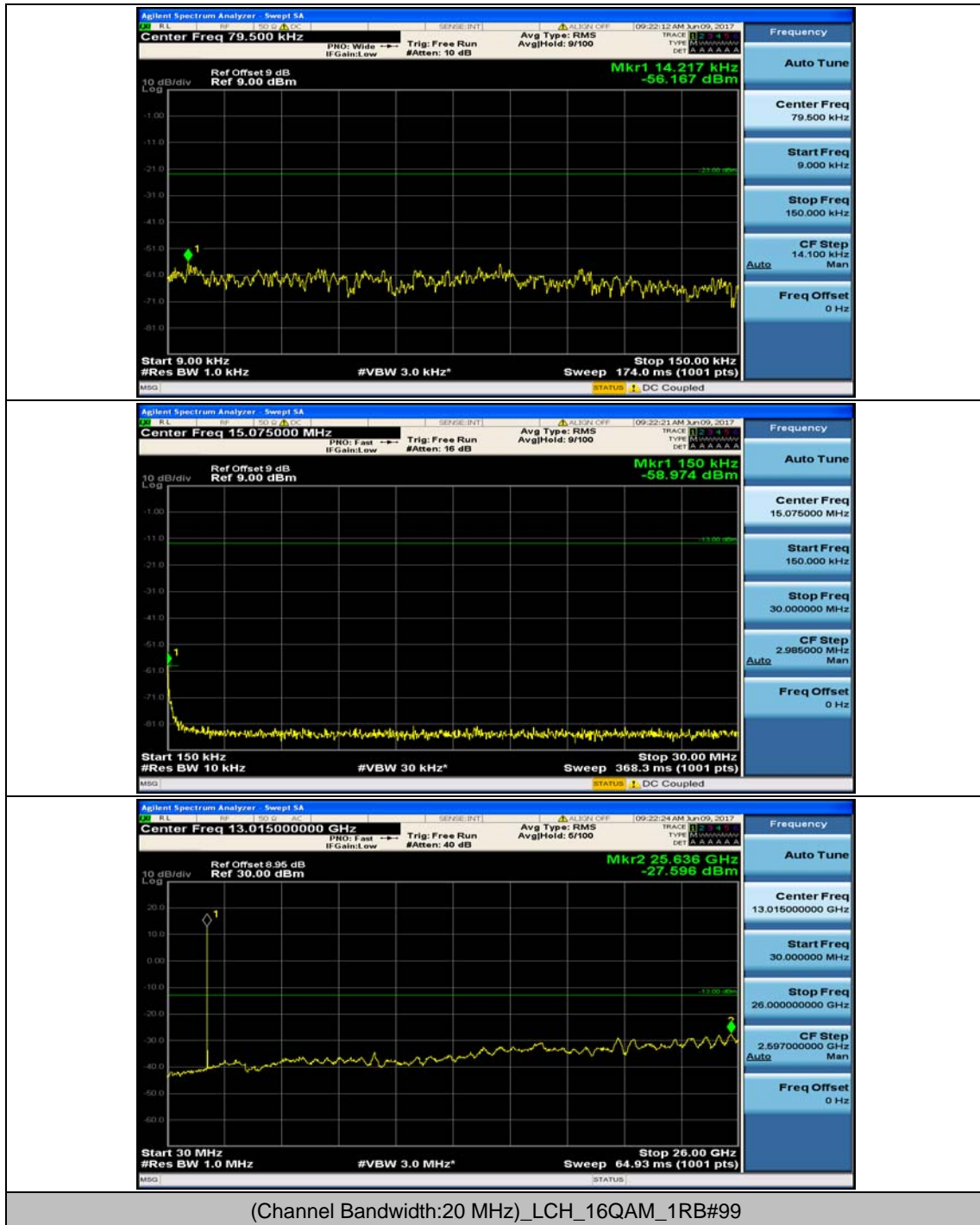


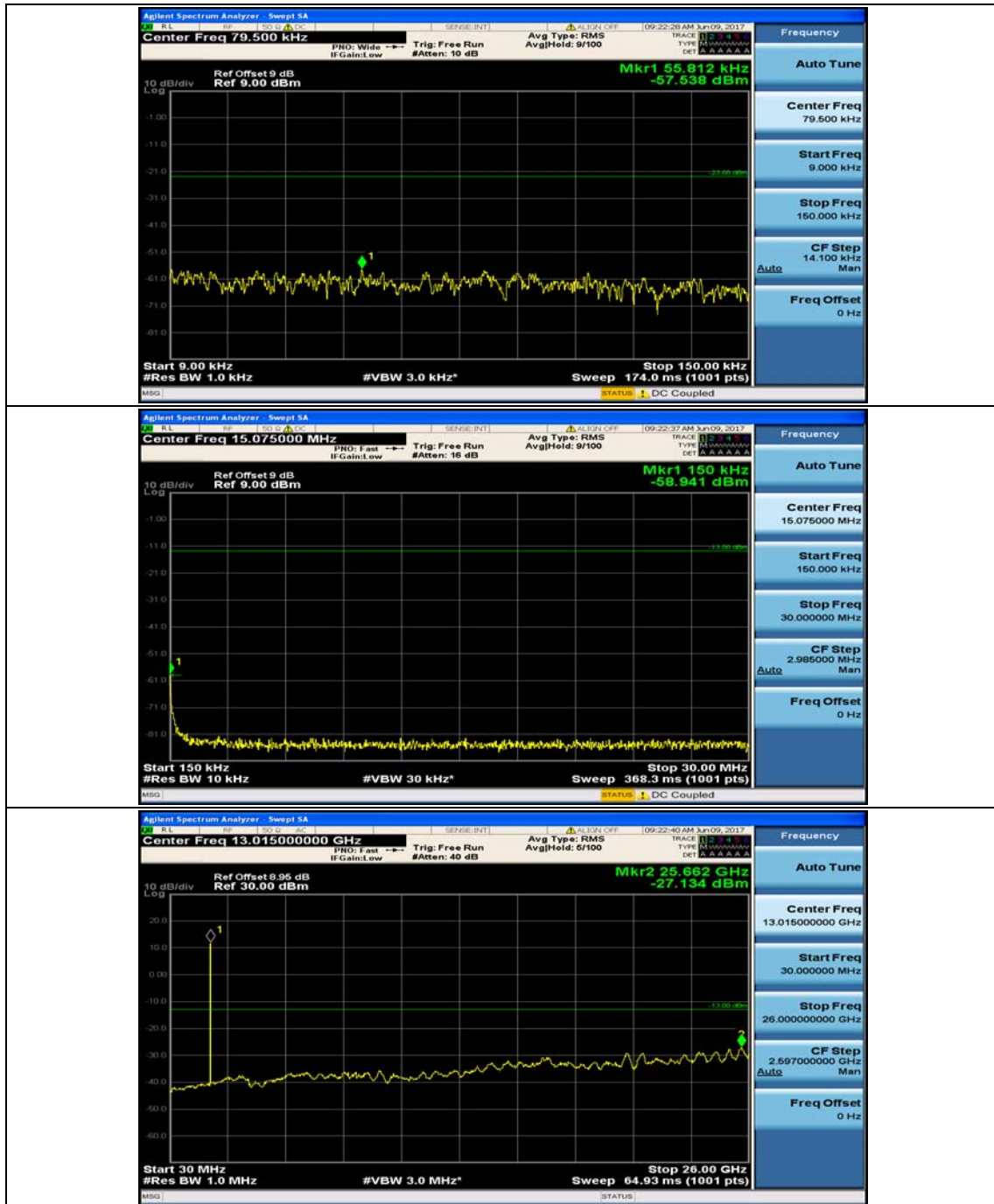


(Channel Bandwidth:20 MHz)_LCH_16QAM_1RB#0

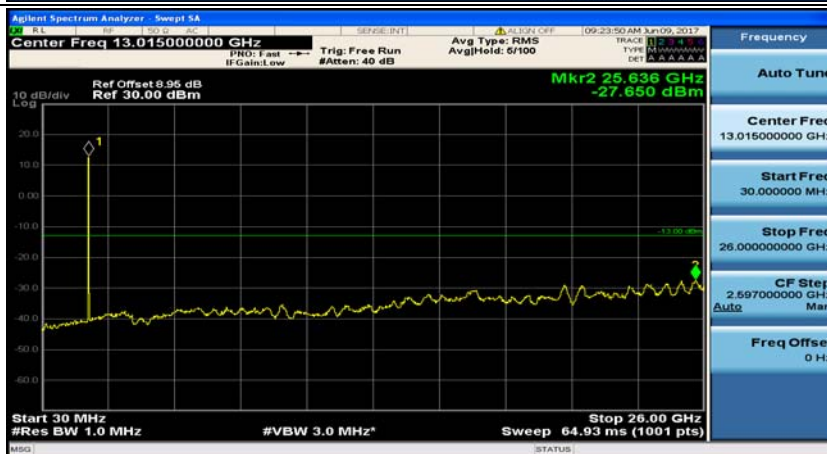
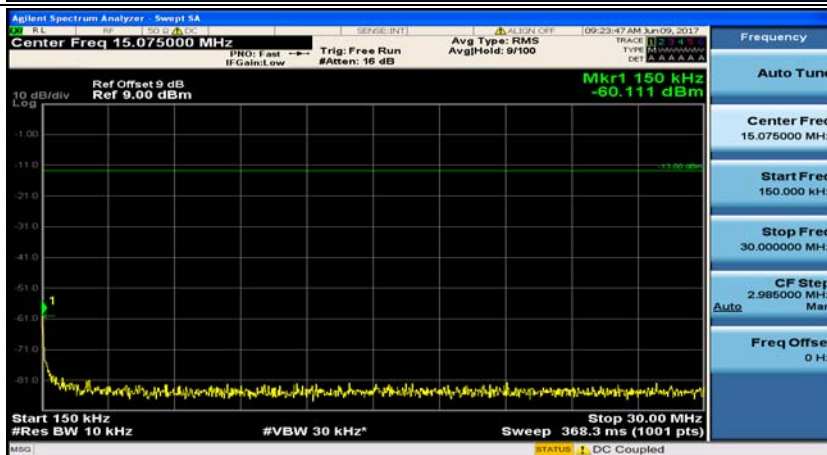
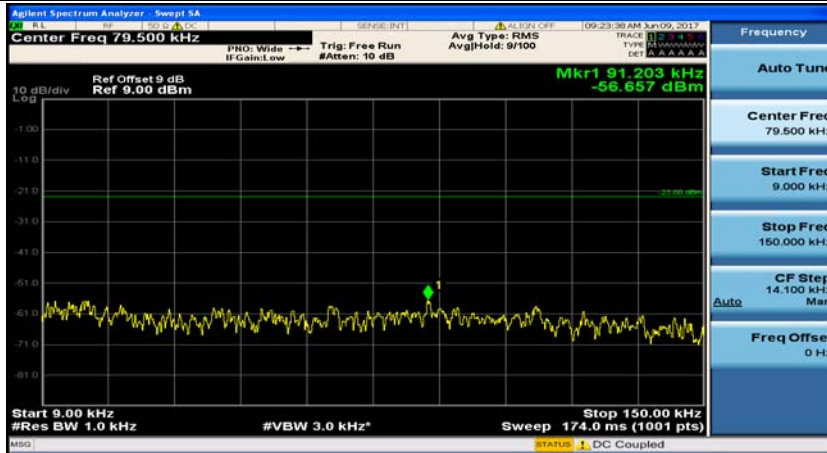


(Channel Bandwidth:20 MHz)_LCH_16QAM_1RB#49

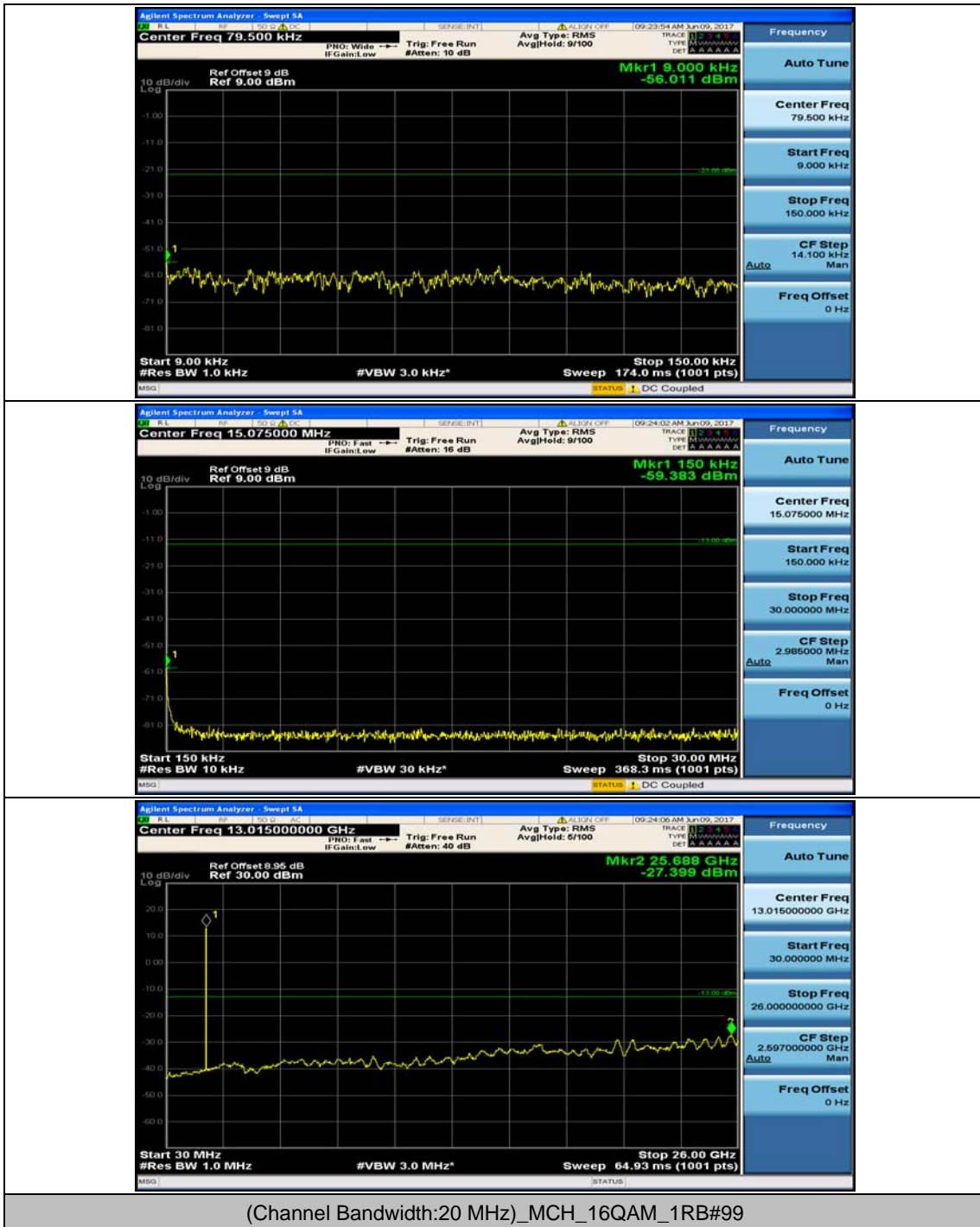


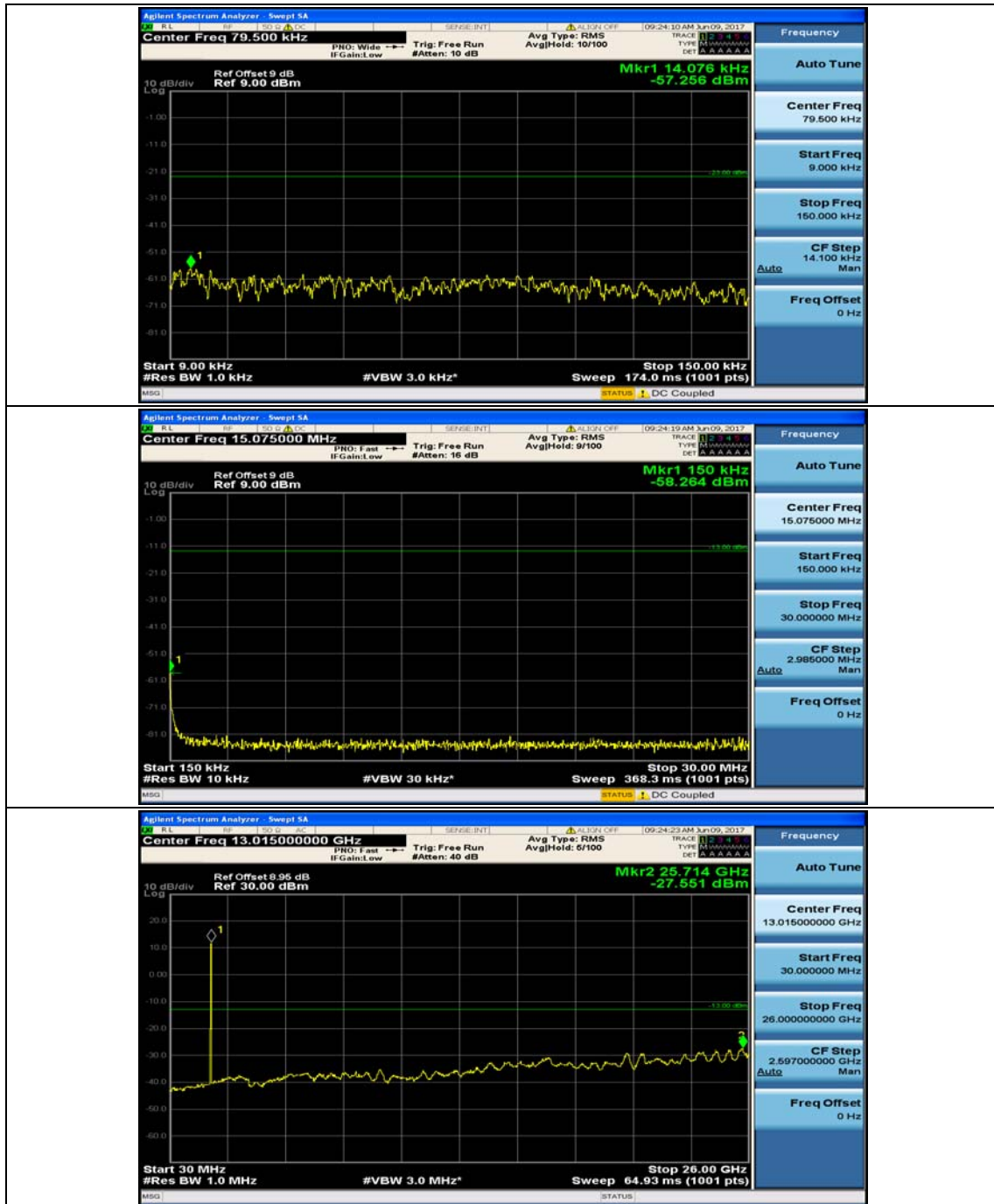


(Channel Bandwidth:20 MHz)_MCH_16QAM_1RB#0

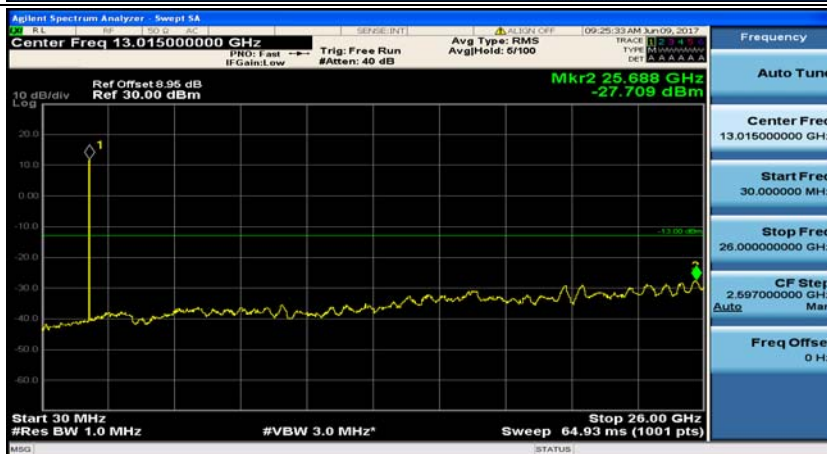
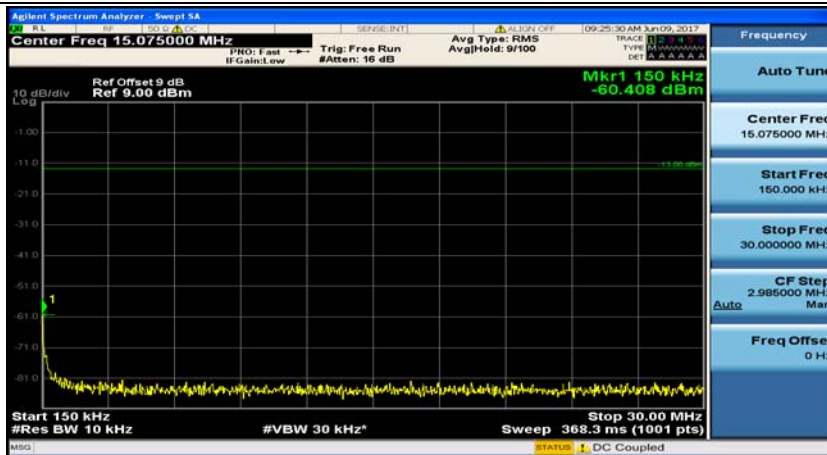
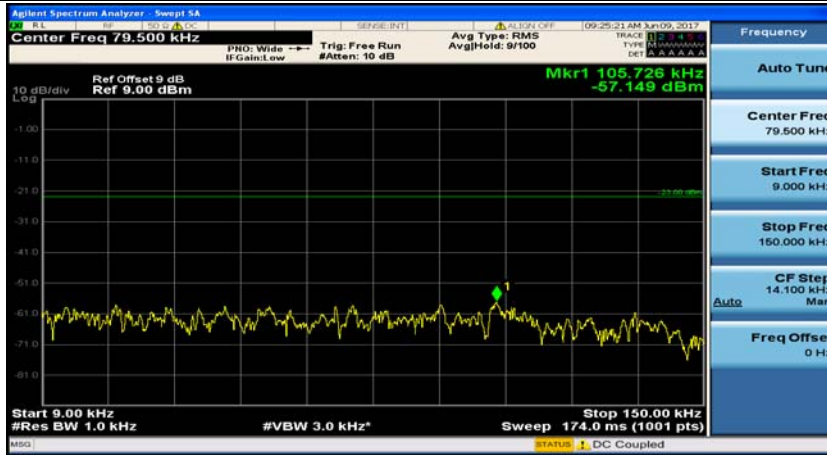


(Channel Bandwidth:20 MHz)_MCH_16QAM_1RB#49

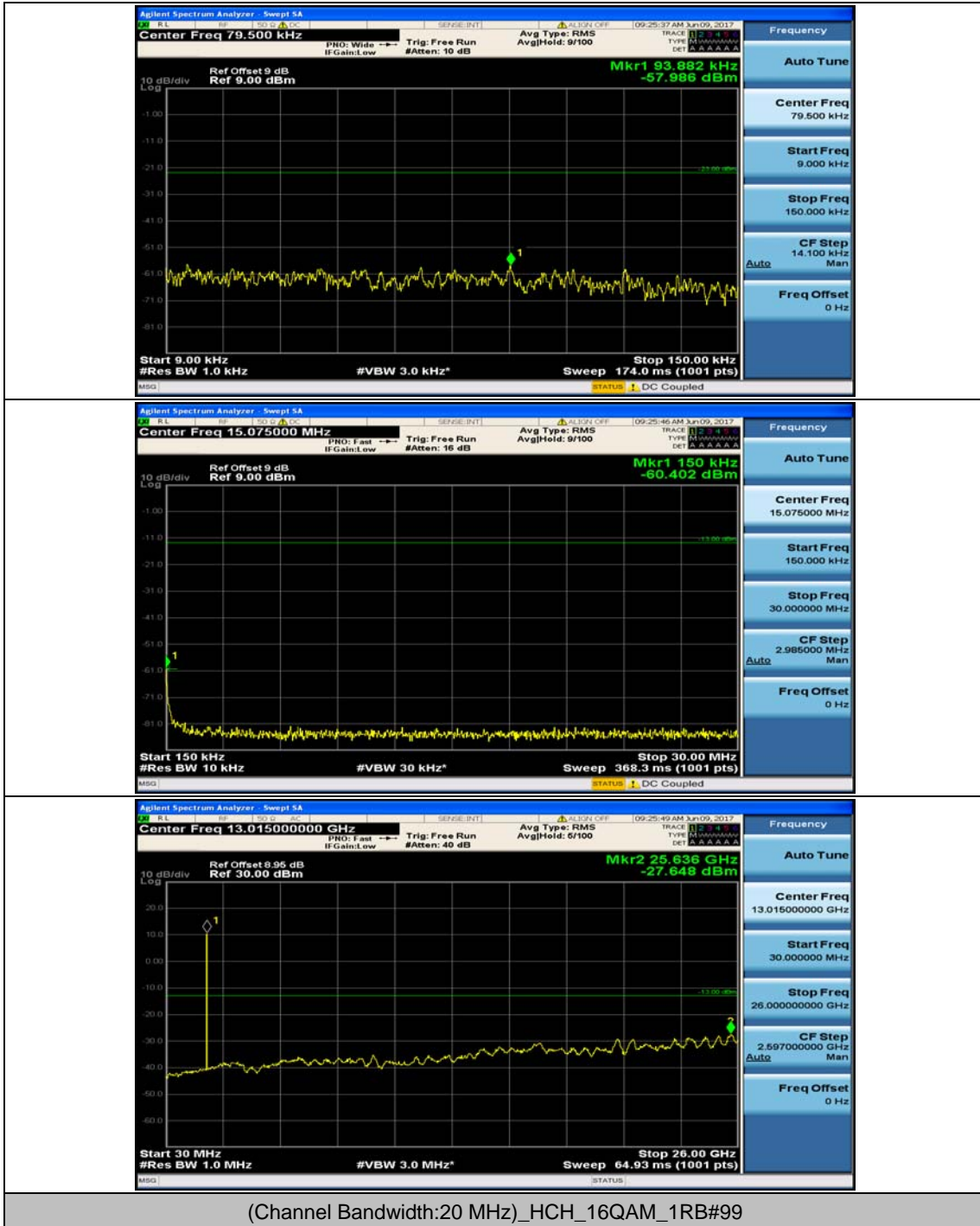


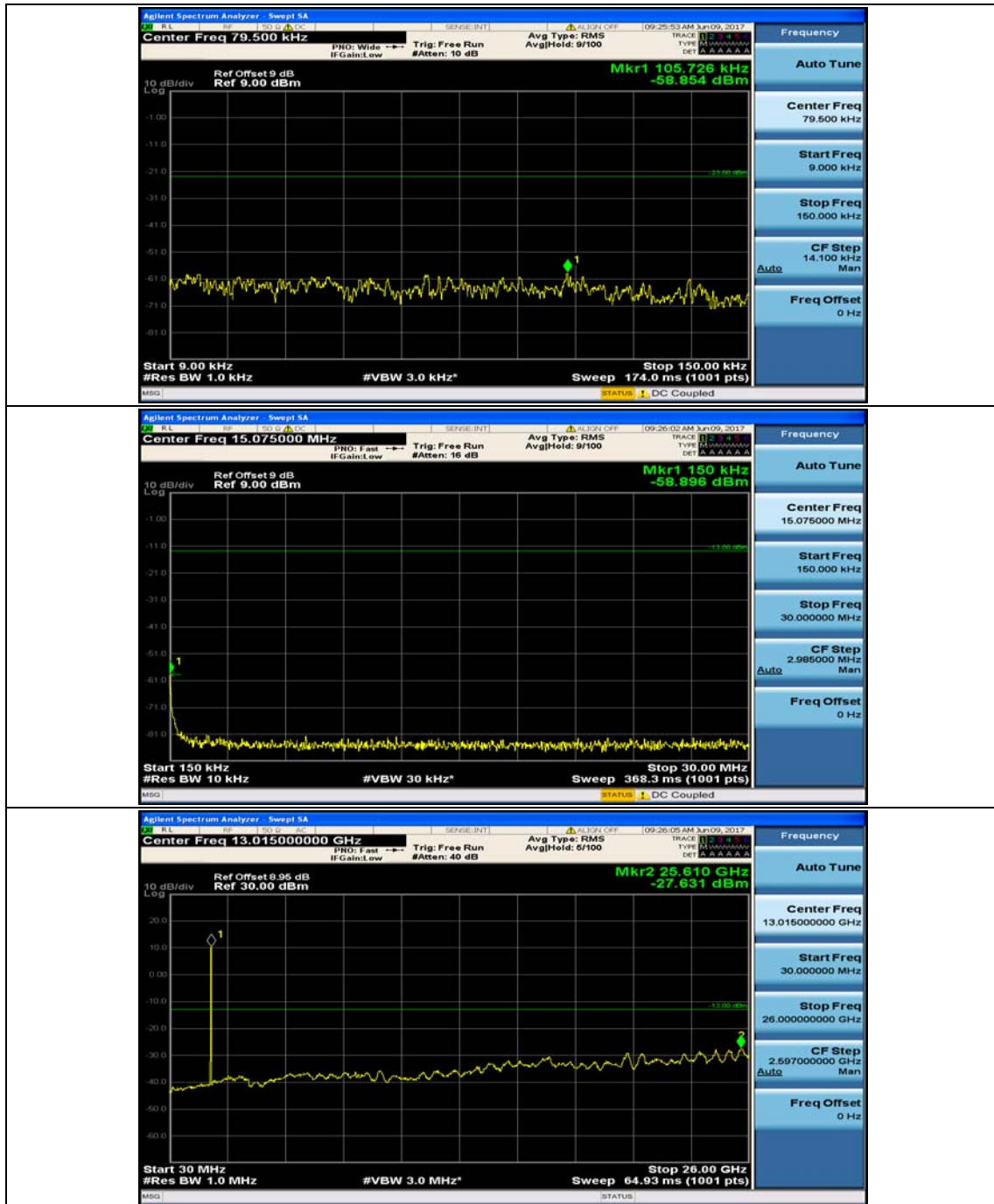


(Channel Bandwidth:20 MHz)_HCH_16QAM_1RB#0



(Channel Bandwidth:20 MHz)_HCH_16QAM_1RB#49





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	-1.07	-0.000578	± 2.5	PASS
		VN	TN	-1.29	-0.000697	± 2.5	PASS
		VH	TN	0.6	0.000324	± 2.5	PASS
	MCH	VL	TN	1.25	0.000664	± 2.5	PASS
		VN	TN	-0.85	-0.000452	± 2.5	PASS
		VH	TN	4.7	0.002497	± 2.5	PASS
	HCH	VL	TN	0.31	0.000162	± 2.5	PASS
		VN	TN	4.41	0.002304	± 2.5	PASS
		VH	TN	4.17	0.002178	± 2.5	PASS
16QAM	LCH	VL	TN	-0.64	-0.000346	± 2.5	PASS
		VN	TN	1.44	0.000778	± 2.5	PASS
		VH	TN	-1.67	-0.000902	± 2.5	PASS
	MCH	VL	TN	-0.29	-0.000154	± 2.5	PASS
		VN	TN	-0.8	-0.000425	± 2.5	PASS
		VH	TN	3.15	0.001673	± 2.5	PASS
	HCH	VL	TN	-0.19	-0.000099	± 2.5	PASS
		VN	TN	-1.63	-0.000851	± 2.5	PASS
		VH	TN	2.32	0.001212	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	3.23	0.001745	± 2.5	PASS
		VN	-20	2.97	0.001605	± 2.5	PASS
		VN	-10	4.8	0.002594	± 2.5	PASS
		VN	0	2.14	0.001156	± 2.5	PASS
		VN	10	4.65	0.002513	± 2.5	PASS
		VN	20	4.55	0.002459	± 2.5	PASS
		VN	30	1.43	0.000773	± 2.5	PASS
		VN	40	2.45	0.001324	± 2.5	PASS
	MCH	VN	-30	-0.2	-0.000106	± 2.5	PASS
		VN	-20	-0.15	-0.000080	± 2.5	PASS

		VN	-10	0.06	0.000032	± 2.5	PASS		
		VN	0	0.79	0.000420	± 2.5	PASS		
		VN	10	-0.29	-0.000154	± 2.5	PASS		
		VN	20	-0.58	-0.000308	± 2.5	PASS		
		VN	30	-1.35	-0.000717	± 2.5	PASS		
		VN	40	-1	-0.000531	± 2.5	PASS		
		VN	50	0.54	0.000287	± 2.5	PASS		
	HCH	VN	-30	-1.9	-0.000993	± 2.5	PASS		
		VN	-20	0.52	0.000272	± 2.5	PASS		
		VN	-10	3.65	0.001907	± 2.5	PASS		
		VN	0	4.41	0.002304	± 2.5	PASS		
		VN	10	4.48	0.002340	± 2.5	PASS		
		VN	20	2.16	0.001128	± 2.5	PASS		
		VN	30	4.98	0.002601	± 2.5	PASS		
		VN	40	0.94	0.000491	± 2.5	PASS		
		VN	50	3.39	0.001771	± 2.5	PASS		
		16QAM	LCH	VN	-30	0.35	0.000189	± 2.5	PASS
				VN	-20	3.58	0.001934	± 2.5	PASS
VN	-10			2.36	0.001275	± 2.5	PASS		
VN	0			2.79	0.001508	± 2.5	PASS		
VN	10			4.94	0.002669	± 2.5	PASS		
VN	20			4.58	0.002475	± 2.5	PASS		
VN	30			-0.26	-0.000140	± 2.5	PASS		
VN	40			3.54	0.001913	± 2.5	PASS		
VN	50			0.65	0.000351	± 2.5	PASS		
MCH	VN		-30	2.47	0.001312	± 2.5	PASS		
	VN		-20	-0.31	-0.000165	± 2.5	PASS		
	VN		-10	1.5	0.000797	± 2.5	PASS		
	VN		0	0.3	0.000159	± 2.5	PASS		
	VN		10	3.57	0.001896	± 2.5	PASS		
	VN		20	-0.74	-0.000393	± 2.5	PASS		
	VN		30	3.39	0.001801	± 2.5	PASS		
	VN		40	2.78	0.001477	± 2.5	PASS		
	VN		50	4.94	0.002624	± 2.5	PASS		
HCH	VN		-30	0.52	0.000272	± 2.5	PASS		
	VN		-20	0.02	0.000010	± 2.5	PASS		
	VN		-10	4.66	0.002434	± 2.5	PASS		
	VN		0	1.63	0.000851	± 2.5	PASS		
	VN		10	0.92	0.000481	± 2.5	PASS		
	VN		20	3.67	0.001917	± 2.5	PASS		
	VN		30	0.57	0.000298	± 2.5	PASS		

		VN	40	0.78	0.000407	± 2.5	PASS
		VN	50	2.52	0.001316	± 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	0.43	0.000232	± 2.5	PASS
		VN	TN	1.62	0.000875	± 2.5	PASS
		VH	TN	0.13	0.000070	± 2.5	PASS
	MCH	VL	TN	2.36	0.001254	± 2.5	PASS
		VN	TN	3.83	0.002035	± 2.5	PASS
		VH	TN	1.49	0.000792	± 2.5	PASS
	HCH	VL	TN	2.09	0.001092	± 2.5	PASS
		VN	TN	1.74	0.000909	± 2.5	PASS
		VH	TN	-1.37	-0.000716	± 2.5	PASS
16QAM	LCH	VL	TN	2.06	0.001113	± 2.5	PASS
		VN	TN	1.42	0.000767	± 2.5	PASS
		VH	TN	1.27	0.000686	± 2.5	PASS
	MCH	VL	TN	1.61	0.000855	± 2.5	PASS
		VN	TN	3.23	0.001716	± 2.5	PASS
		VH	TN	0.47	0.000250	± 2.5	PASS
	HCH	VL	TN	2.01	0.001050	± 2.5	PASS
		VN	TN	4.79	0.002503	± 2.5	PASS
		VH	TN	0.1	0.000052	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-1.56	-0.000843	± 2.5	PASS
		VN	-20	1.52	0.000821	± 2.5	PASS
		VN	-10	-0.31	-0.000167	± 2.5	PASS
		VN	0	3.96	0.002139	± 2.5	PASS
		VN	10	3.32	0.001793	± 2.5	PASS
		VN	20	1.63	0.000880	± 2.5	PASS
		VN	30	2.84	0.001534	± 2.5	PASS
		VN	40	4.48	0.002420	± 2.5	PASS
		VN	50	-1.41	-0.000762	± 2.5	PASS
	MCH	VN	-30	-0.56	-0.000297	± 2.5	PASS
		VN	-20	0.42	0.000223	± 2.5	PASS
		VN	-10	0.43	0.000228	± 2.5	PASS

		VN	0	3.79	0.002013	± 2.5	PASS		
		VN	10	2.04	0.001084	± 2.5	PASS		
		VN	20	1.88	0.000999	± 2.5	PASS		
		VN	30	2.18	0.001158	± 2.5	PASS		
		VN	40	2.65	0.001408	± 2.5	PASS		
		VN	50	1.94	0.001031	± 2.5	PASS		
	HCH	VN	-30	1.74	0.000909	± 2.5	PASS		
		VN	-20	2.26	0.001181	± 2.5	PASS		
		VN	-10	-0.58	-0.000303	± 2.5	PASS		
		VN	0	-1.15	-0.000601	± 2.5	PASS		
		VN	10	-1.25	-0.000653	± 2.5	PASS		
		VN	20	2.15	0.001124	± 2.5	PASS		
		VN	30	0.63	0.000329	± 2.5	PASS		
		VN	40	2.98	0.001557	± 2.5	PASS		
		VN	50	3.6	0.001881	± 2.5	PASS		
		16QAM	LCH	VN	-30	3.94	0.002128	± 2.5	PASS
				VN	-20	1.09	0.000589	± 2.5	PASS
				VN	-10	-0.36	-0.000194	± 2.5	PASS
VN	0			0.82	0.000443	± 2.5	PASS		
VN	10			0.98	0.000529	± 2.5	PASS		
VN	20			2.73	0.001474	± 2.5	PASS		
VN	30			3.47	0.001874	± 2.5	PASS		
VN	40			3.2	0.001728	± 2.5	PASS		
VN	50			-1.82	-0.000983	± 2.5	PASS		
MCH	VN		-30	1.06	0.000563	± 2.5	PASS		
	VN		-20	2.11	0.001121	± 2.5	PASS		
	VN		-10	3.18	0.001689	± 2.5	PASS		
	VN		0	-0.6	-0.000319	± 2.5	PASS		
	VN		10	4.26	0.002263	± 2.5	PASS		
	VN		20	-1.34	-0.000712	± 2.5	PASS		
	VN		30	2.27	0.001206	± 2.5	PASS		
	VN		40	4.61	0.002449	± 2.5	PASS		
	VN		50	-1.46	-0.000776	± 2.5	PASS		
HCH	VN		-30	0.86	0.000449	± 2.5	PASS		
	VN		-20	3.54	0.001850	± 2.5	PASS		
	VN		-10	-0.73	-0.000381	± 2.5	PASS		
	VN		0	-1.69	-0.000883	± 2.5	PASS		
	VN		10	0.93	0.000486	± 2.5	PASS		
	VN		20	4.88	0.002550	± 2.5	PASS		
	VN		30	2.92	0.001526	± 2.5	PASS		
	VN		40	4.8	0.002508	± 2.5	PASS		

		VN	50	-0.04	-0.000021	± 2.5	PASS
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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	4.5	0.002429	± 2.5	PASS
		VN	TN	3.12	0.001684	± 2.5	PASS
		VH	TN	4.4	0.002375	± 2.5	PASS
	MCH	VL	TN	-0.97	-0.000515	± 2.5	PASS
		VN	TN	0.38	0.000202	± 2.5	PASS
		VH	TN	4.84	0.002571	± 2.5	PASS
	HCH	VL	TN	0.17	0.000089	± 2.5	PASS
		VN	TN	-1.29	-0.000675	± 2.5	PASS
		VH	TN	-0.08	-0.000042	± 2.5	PASS
16QAM	LCH	VL	TN	-0.14	-0.000076	± 2.5	PASS
		VN	TN	0.38	0.000205	± 2.5	PASS
		VH	TN	2.3	0.001242	± 2.5	PASS
	MCH	VL	TN	-0.86	-0.000457	± 2.5	PASS
		VN	TN	0.99	0.000526	± 2.5	PASS
		VH	TN	4.57	0.002428	± 2.5	PASS
	HCH	VL	TN	-0.14	-0.000073	± 2.5	PASS
		VN	TN	4.04	0.002112	± 2.5	PASS
		VH	TN	-1.07	-0.000559	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	1.73	0.000934	± 2.5	PASS
		VN	-20	1.85	0.000999	± 2.5	PASS
		VN	-10	1.96	0.001058	± 2.5	PASS
		VN	0	1.56	0.000842	± 2.5	PASS
		VN	10	-0.68	-0.000367	± 2.5	PASS
		VN	20	4.89	0.002640	± 2.5	PASS
		VN	30	0.35	0.000189	± 2.5	PASS
		VN	40	1.03	0.000556	± 2.5	PASS
		VN	50	-1.03	-0.000556	± 2.5	PASS
	MCH	VN	-30	4.1	0.002178	± 2.5	PASS
		VN	-20	-0.04	-0.000021	± 2.5	PASS
		VN	-10	3.07	0.001631	± 2.5	PASS
		VN	0	4.6	0.002444	± 2.5	PASS

		VN	10	1.77	0.000940	± 2.5	PASS
		VN	20	2.43	0.001291	± 2.5	PASS
		VN	30	2.75	0.001461	± 2.5	PASS
		VN	40	4.67	0.002481	± 2.5	PASS
		VN	50	2.52	0.001339	± 2.5	PASS
	HCH	VN	-30	2.27	0.001187	± 2.5	PASS
		VN	-20	4.88	0.002552	± 2.5	PASS
		VN	-10	4.71	0.002463	± 2.5	PASS
		VN	0	-0.68	-0.000356	± 2.5	PASS
		VN	10	1.02	0.000533	± 2.5	PASS
		VN	20	4.01	0.002097	± 2.5	PASS
		VN	30	2.22	0.001161	± 2.5	PASS
		VN	40	-1.43	-0.000748	± 2.5	PASS
		VN	50	4.66	0.002437	± 2.5	PASS
		16QAM	LCH	VN	-30	4.8	0.002591
VN	-20			-1.63	-0.000880	± 2.5	PASS
VN	-10			1.71	0.000923	± 2.5	PASS
VN	0			1.92	0.001036	± 2.5	PASS
VN	10			2.52	0.001360	± 2.5	PASS
VN	20			-1.23	-0.000664	± 2.5	PASS
VN	30			3.26	0.001760	± 2.5	PASS
VN	40			4.59	0.002478	± 2.5	PASS
VN	50			-0.94	-0.000507	± 2.5	PASS
MCH	VN		-30	2.02	0.001073	± 2.5	PASS
	VN		-20	-1.12	-0.000595	± 2.5	PASS
	VN		-10	2.92	0.001551	± 2.5	PASS
	VN		0	3.36	0.001785	± 2.5	PASS
	VN		10	1.65	0.000876	± 2.5	PASS
	VN		20	3.38	0.001795	± 2.5	PASS
	VN		30	2.31	0.001227	± 2.5	PASS
	VN		40	3.91	0.002077	± 2.5	PASS
	VN		50	2.37	0.001259	± 2.5	PASS
HCH	VN		-30	-0.94	-0.000492	± 2.5	PASS
	VN		-20	-1.65	-0.000863	± 2.5	PASS
	VN		-10	-0.15	-0.000078	± 2.5	PASS
	VN		0	2.59	0.001354	± 2.5	PASS
	VN		10	4.73	0.002473	± 2.5	PASS
	VN		20	0.01	0.000005	± 2.5	PASS
	VN		30	-1.22	-0.000638	± 2.5	PASS
	VN		40	1.46	0.000763	± 2.5	PASS
	VN		50	4.99	0.002609	± 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	-1.68	-0.000906	± 2.5	PASS
		VN	TN	4.48	0.002415	± 2.5	PASS
		VH	TN	3.26	0.001757	± 2.5	PASS
	MCH	VL	TN	-1.68	-0.000892	± 2.5	PASS
		VN	TN	4.81	0.002555	± 2.5	PASS
		VH	TN	0.7	0.000372	± 2.5	PASS
	HCH	VL	TN	-0.1	-0.000052	± 2.5	PASS
		VN	TN	4.68	0.002450	± 2.5	PASS
		VH	TN	4.45	0.002330	± 2.5	PASS
16QAM	LCH	VL	TN	0.71	0.000383	± 2.5	PASS
		VN	TN	1.41	0.000760	± 2.5	PASS
		VH	TN	-1.63	-0.000879	± 2.5	PASS
	MCH	VL	TN	3.99	0.002120	± 2.5	PASS
		VN	TN	0.3	0.000159	± 2.5	PASS
		VH	TN	2.15	0.001142	± 2.5	PASS
	HCH	VL	TN	-0.1	-0.000052	± 2.5	PASS
		VN	TN	2.25	0.001178	± 2.5	PASS
		VH	TN	2.91	0.001524	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	2.69	0.001450	± 2.5	PASS
		VN	-20	4.47	0.002410	± 2.5	PASS
		VN	-10	1.57	0.000846	± 2.5	PASS
		VN	0	2.41	0.001299	± 2.5	PASS
		VN	10	2.99	0.001612	± 2.5	PASS
		VN	20	4.79	0.002582	± 2.5	PASS
		VN	30	-1.92	-0.001035	± 2.5	PASS
		VN	40	0.45	0.000243	± 2.5	PASS
		VN	50	-0.73	-0.000394	± 2.5	PASS
	MCH	VN	-30	1.48	0.000786	± 2.5	PASS
		VN	-20	0.98	0.000521	± 2.5	PASS
		VN	-10	-1.05	-0.000558	± 2.5	PASS
		VN	0	3.28	0.001742	± 2.5	PASS
		VN	10	2.1	0.001116	± 2.5	PASS
		VN	20	-1.24	-0.000659	± 2.5	PASS

		VN	30	1.33	0.000707	± 2.5	PASS
		VN	40	-1.69	-0.000898	± 2.5	PASS
		VN	50	2.56	0.001360	± 2.5	PASS
	HCH	VN	-30	-0.51	-0.000267	± 2.5	PASS
		VN	-20	3.14	0.001644	± 2.5	PASS
		VN	-10	4.5	0.002356	± 2.5	PASS
		VN	0	1.13	0.000592	± 2.5	PASS
		VN	10	1.7	0.000890	± 2.5	PASS
		VN	20	-1.43	-0.000749	± 2.5	PASS
		VN	30	4.99	0.002613	± 2.5	PASS
		VN	40	0.75	0.000393	± 2.5	PASS
		VN	50	2.27	0.001188	± 2.5	PASS
16QAM	LCH	VN	-30	-0.4	-0.000216	± 2.5	PASS
		VN	-20	1.76	0.000949	± 2.5	PASS
		VN	-10	-0.86	-0.000464	± 2.5	PASS
		VN	0	3.38	0.001822	± 2.5	PASS
		VN	10	1.24	0.000668	± 2.5	PASS
		VN	20	4.62	0.002491	± 2.5	PASS
		VN	30	0.73	0.000394	± 2.5	PASS
		VN	40	3.25	0.001752	± 2.5	PASS
	MCH	VN	50	-0.3	-0.000162	± 2.5	PASS
		VN	-30	3.12	0.001657	± 2.5	PASS
		VN	-20	2.06	0.001094	± 2.5	PASS
		VN	-10	-1.19	-0.000632	± 2.5	PASS
		VN	0	-0.8	-0.000425	± 2.5	PASS
		VN	10	1.66	0.000882	± 2.5	PASS
		VN	20	4.68	0.002486	± 2.5	PASS
		VN	30	2.07	0.001100	± 2.5	PASS
		VN	40	0.74	0.000393	± 2.5	PASS
	HCH	VN	50	4.79	0.002544	± 2.5	PASS
		VN	-30	-0.03	-0.000016	± 2.5	PASS
		VN	-20	3.26	0.001707	± 2.5	PASS
		VN	-10	-1.57	-0.000822	± 2.5	PASS
		VN	0	1.72	0.000901	± 2.5	PASS
		VN	10	1.4	0.000733	± 2.5	PASS
		VN	20	4.42	0.002314	± 2.5	PASS
VN		30	4.23	0.002215	± 2.5	PASS	
VN	40	0	0.000000	± 2.5	PASS		
VN	50	2.81	0.001471	± 2.5	PASS		

Channel Bandwidth: 15 MHz

Channel Bandwidth: 15 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	-1.02	-0.000549	± 2.5	PASS
		VN	TN	0.7	0.000377	± 2.5	PASS
		VH	TN	-0.31	-0.000167	± 2.5	PASS
	MCH	VL	TN	-0.06	-0.000032	± 2.5	PASS
		VN	TN	4.76	0.002529	± 2.5	PASS
		VH	TN	-1.61	-0.000855	± 2.5	PASS
	HCH	VL	TN	3.52	0.001845	± 2.5	PASS
		VN	TN	4.68	0.002453	± 2.5	PASS
		VH	TN	-1.51	-0.000792	± 2.5	PASS
16QAM	LCH	VL	TN	-1.13	-0.000608	± 2.5	PASS
		VN	TN	0.94	0.000506	± 2.5	PASS
		VH	TN	4.97	0.002676	± 2.5	PASS
	MCH	VL	TN	2.99	0.001588	± 2.5	PASS
		VN	TN	3.47	0.001843	± 2.5	PASS
		VH	TN	-1.51	-0.000802	± 2.5	PASS
	HCH	VL	TN	0.47	0.000246	± 2.5	PASS
		VN	TN	2.32	0.001216	± 2.5	PASS
		VH	TN	3.85	0.002018	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	2.61	0.001405	± 2.5	PASS
		VN	-20	4.69	0.002525	± 2.5	PASS
		VN	-10	-0.56	-0.000301	± 2.5	PASS
		VN	0	-0.71	-0.000382	± 2.5	PASS
		VN	10	4.16	0.002240	± 2.5	PASS
		VN	20	3.65	0.001965	± 2.5	PASS
		VN	30	2.07	0.001114	± 2.5	PASS
		VN	40	4.82	0.002595	± 2.5	PASS
		VN	50	2.22	0.001195	± 2.5	PASS
	MCH	VN	-30	0.27	0.000143	± 2.5	PASS
		VN	-20	-1.97	-0.001046	± 2.5	PASS
		VN	-10	-1.07	-0.000568	± 2.5	PASS
		VN	0	4.93	0.002619	± 2.5	PASS
		VN	10	1.57	0.000834	± 2.5	PASS
		VN	20	-0.38	-0.000202	± 2.5	PASS

		VN	30	0.76	0.000404	± 2.5	PASS
		VN	40	1.03	0.000547	± 2.5	PASS
		VN	50	-1.72	-0.000914	± 2.5	PASS
	HCH	VN	-30	2.99	0.001567	± 2.5	PASS
		VN	-20	4.11	0.002155	± 2.5	PASS
		VN	-10	3.08	0.001615	± 2.5	PASS
		VN	0	2.35	0.001232	± 2.5	PASS
		VN	10	0.41	0.000215	± 2.5	PASS
		VN	20	-1.35	-0.000708	± 2.5	PASS
		VN	30	0.57	0.000299	± 2.5	PASS
		VN	40	0.26	0.000136	± 2.5	PASS
		VN	50	3.92	0.002055	± 2.5	PASS
16QAM	LCH	VN	-30	-0.88	-0.000474	± 2.5	PASS
		VN	-20	-0.31	-0.000167	± 2.5	PASS
		VN	-10	-0.04	-0.000022	± 2.5	PASS
		VN	0	0.99	0.000533	± 2.5	PASS
		VN	10	-0.89	-0.000479	± 2.5	PASS
		VN	20	0.59	0.000318	± 2.5	PASS
		VN	30	-0.51	-0.000275	± 2.5	PASS
		VN	40	-0.4	-0.000215	± 2.5	PASS
		VN	50	-0.4	-0.000215	± 2.5	PASS
	MCH	VN	-30	2.34	0.001243	± 2.5	PASS
		VN	-20	-0.23	-0.000122	± 2.5	PASS
		VN	-10	2.61	0.001386	± 2.5	PASS
		VN	0	1.34	0.000712	± 2.5	PASS
		VN	10	-0.45	-0.000239	± 2.5	PASS
		VN	20	0.38	0.000202	± 2.5	PASS
		VN	30	4.73	0.002513	± 2.5	PASS
		VN	40	4.09	0.002173	± 2.5	PASS
		VN	50	3.53	0.001875	± 2.5	PASS
	HCH	VN	-30	-1.09	-0.000571	± 2.5	PASS
		VN	-20	-1.44	-0.000755	± 2.5	PASS
		VN	-10	4.58	0.002401	± 2.5	PASS
		VN	0	0.79	0.000414	± 2.5	PASS
		VN	10	2.54	0.001332	± 2.5	PASS
		VN	20	1.46	0.000765	± 2.5	PASS
VN		30	1.69	0.000886	± 2.5	PASS	
VN		40	4.99	0.002616	± 2.5	PASS	
VN		50	3.71	0.001945	± 2.5	PASS	

Channel Bandwidth: 20 MHz

Channel Bandwidth: 20 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	3.25	0.001747	± 2.5	PASS
		VN	TN	3.45	0.001855	± 2.5	PASS
		VH	TN	2.89	0.001554	± 2.5	PASS
	MCH	VL	TN	-0.69	-0.000367	± 2.5	PASS
		VN	TN	2.47	0.001312	± 2.5	PASS
		VH	TN	-0.49	-0.000260	± 2.5	PASS
	HCH	VL	TN	4.23	0.002220	± 2.5	PASS
		VN	TN	-0.49	-0.000257	± 2.5	PASS
		VH	TN	2.42	0.001270	± 2.5	PASS
16QAM	LCH	VL	TN	4.39	0.002360	± 2.5	PASS
		VN	TN	1.19	0.000640	± 2.5	PASS
		VH	TN	0.98	0.000527	± 2.5	PASS
	MCH	VL	TN	1.32	0.000701	± 2.5	PASS
		VN	TN	4	0.002125	± 2.5	PASS
		VH	TN	0.78	0.000414	± 2.5	PASS
	HCH	VL	TN	3.1	0.001627	± 2.5	PASS
		VN	TN	-1.81	-0.000950	± 2.5	PASS
		VH	TN	1.33	0.000698	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	3.1	0.001667	± 2.5	PASS
		VN	-20	-1.73	-0.000930	± 2.5	PASS
		VN	-10	-0.99	-0.000532	± 2.5	PASS
		VN	0	0.58	0.000312	± 2.5	PASS
		VN	10	3.64	0.001957	± 2.5	PASS
		VN	20	0.5	0.000269	± 2.5	PASS
		VN	30	2.42	0.001301	± 2.5	PASS
		VN	40	1.54	0.000828	± 2.5	PASS
		VN	50	4.09	0.002199	± 2.5	PASS
	MCH	VN	-30	-0.36	-0.000191	± 2.5	PASS
		VN	-20	1.28	0.000680	± 2.5	PASS
		VN	-10	3.86	0.002050	± 2.5	PASS
		VN	0	4.59	0.002438	± 2.5	PASS
		VN	10	1.58	0.000839	± 2.5	PASS
		VN	20	2.51	0.001333	± 2.5	PASS

		VN	30	2.39	0.001270	± 2.5	PASS
		VN	40	0.21	0.000112	± 2.5	PASS
		VN	50	1.09	0.000579	± 2.5	PASS
	HCH	VN	-30	2.73	0.001433	± 2.5	PASS
		VN	-20	4.25	0.002231	± 2.5	PASS
		VN	-10	2.12	0.001113	± 2.5	PASS
		VN	0	0.64	0.000336	± 2.5	PASS
		VN	10	3.35	0.001759	± 2.5	PASS
		VN	20	1.03	0.000541	± 2.5	PASS
		VN	30	-0.3	-0.000157	± 2.5	PASS
		VN	40	-1.8	-0.000945	± 2.5	PASS
		VN	50	2.35	0.001234	± 2.5	PASS
16QAM	LCH	VN	-30	-0.9	-0.000484	± 2.5	PASS
		VN	-20	3.01	0.001618	± 2.5	PASS
		VN	-10	2.71	0.001457	± 2.5	PASS
		VN	0	-0.01	-0.000005	± 2.5	PASS
		VN	10	0.54	0.000290	± 2.5	PASS
		VN	20	4.39	0.002360	± 2.5	PASS
		VN	30	-1.26	-0.000677	± 2.5	PASS
		VN	40	2.63	0.001414	± 2.5	PASS
	MCH	VN	50	-1.09	-0.000586	± 2.5	PASS
		VN	-30	1.72	0.000914	± 2.5	PASS
		VN	-20	-0.56	-0.000297	± 2.5	PASS
		VN	-10	0.1	0.000053	± 2.5	PASS
		VN	0	3.09	0.001641	± 2.5	PASS
		VN	10	-1.7	-0.000903	± 2.5	PASS
		VN	20	2.48	0.001317	± 2.5	PASS
		VN	30	3.79	0.002013	± 2.5	PASS
		VN	40	4.44	0.002359	± 2.5	PASS
	HCH	VN	50	0.31	0.000165	± 2.5	PASS
		VN	-30	1.35	0.000709	± 2.5	PASS
		VN	-20	4.79	0.002514	± 2.5	PASS
		VN	-10	-1.71	-0.000898	± 2.5	PASS
		VN	0	4.77	0.002504	± 2.5	PASS
		VN	10	1.26	0.000661	± 2.5	PASS
		VN	20	-0.78	-0.000409	± 2.5	PASS
VN		30	-1.18	-0.000619	± 2.5	PASS	
VN	40	-0.65	-0.000341	± 2.5	PASS		
VN	50	0.1	0.000052	± 2.5	PASS		