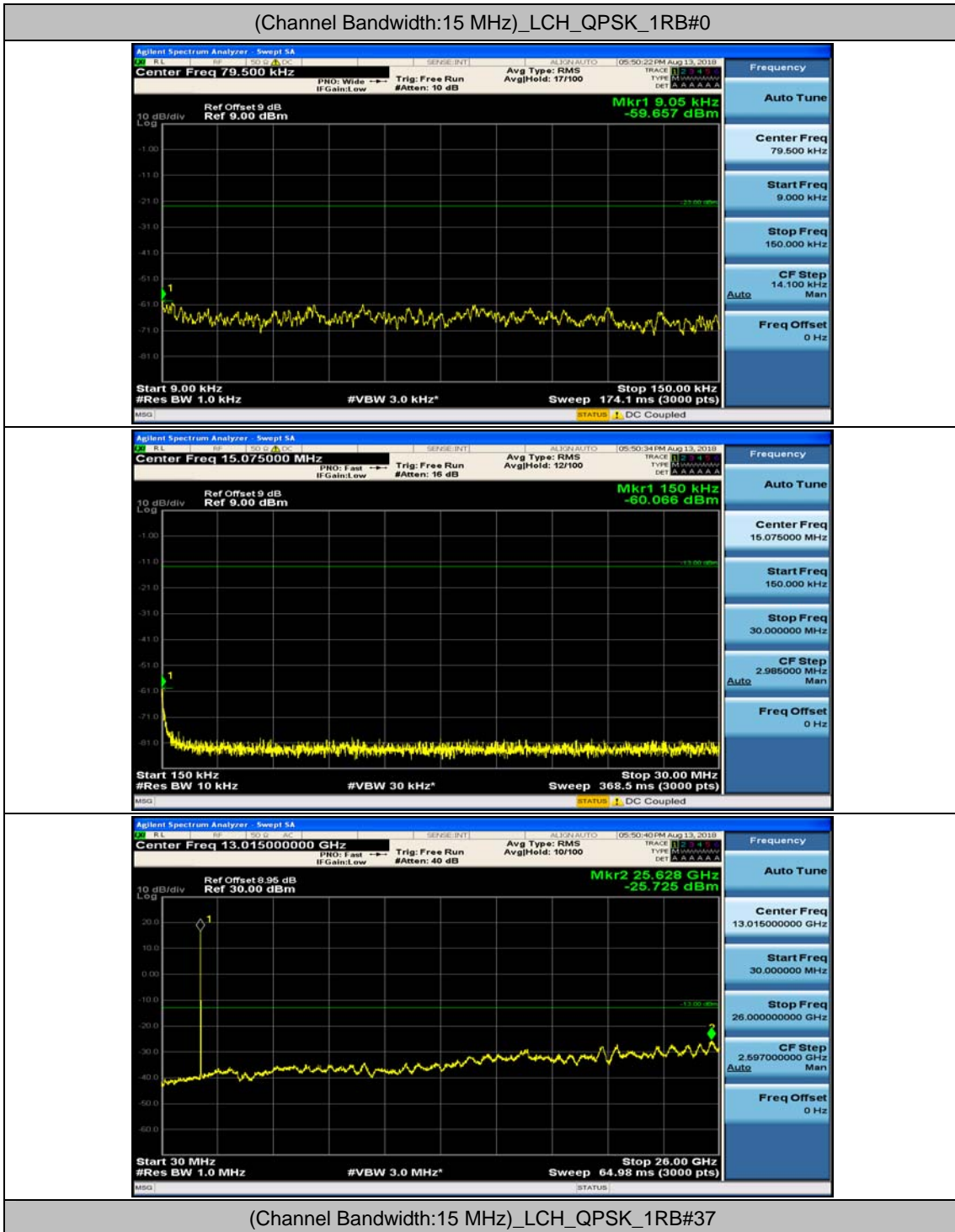
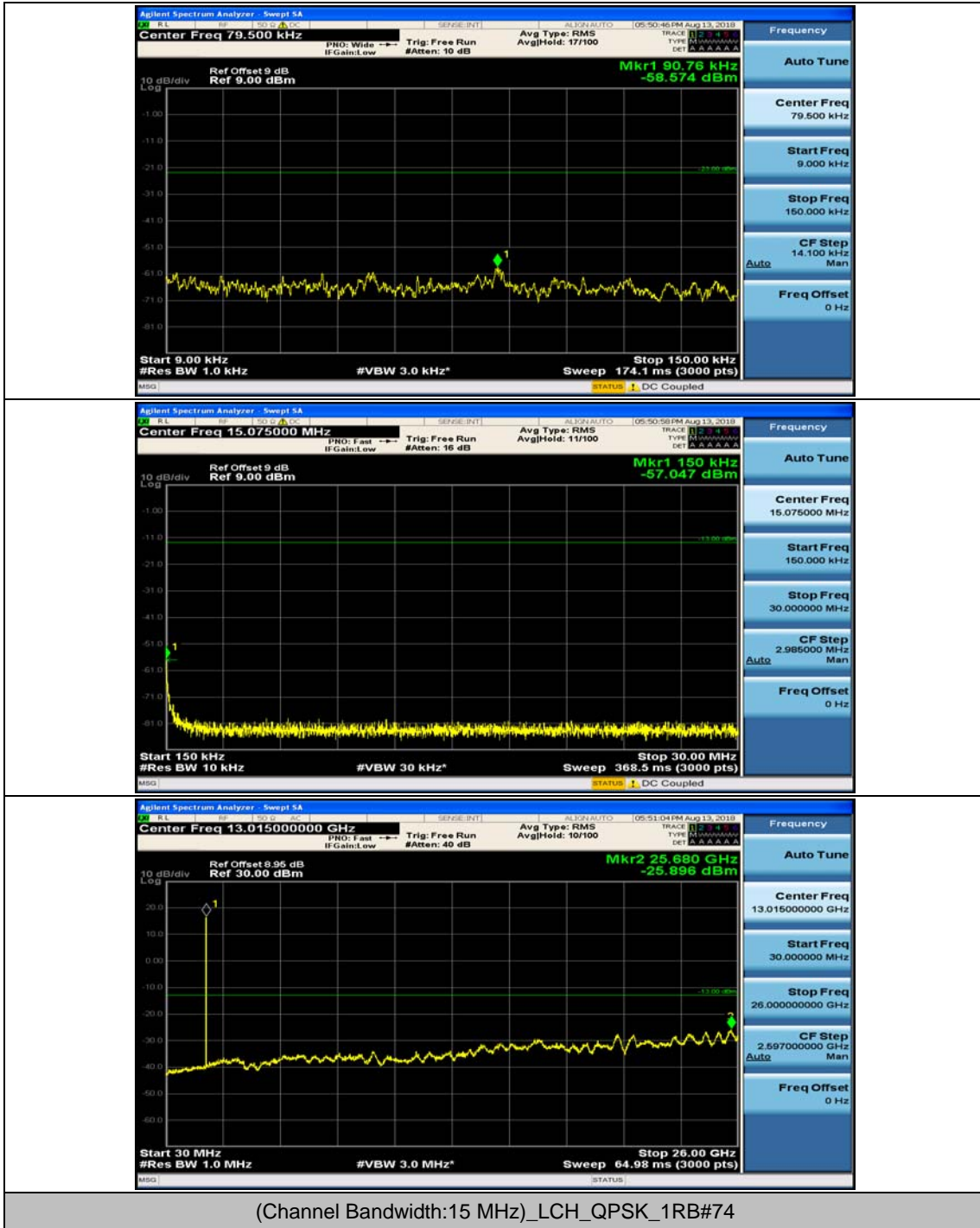
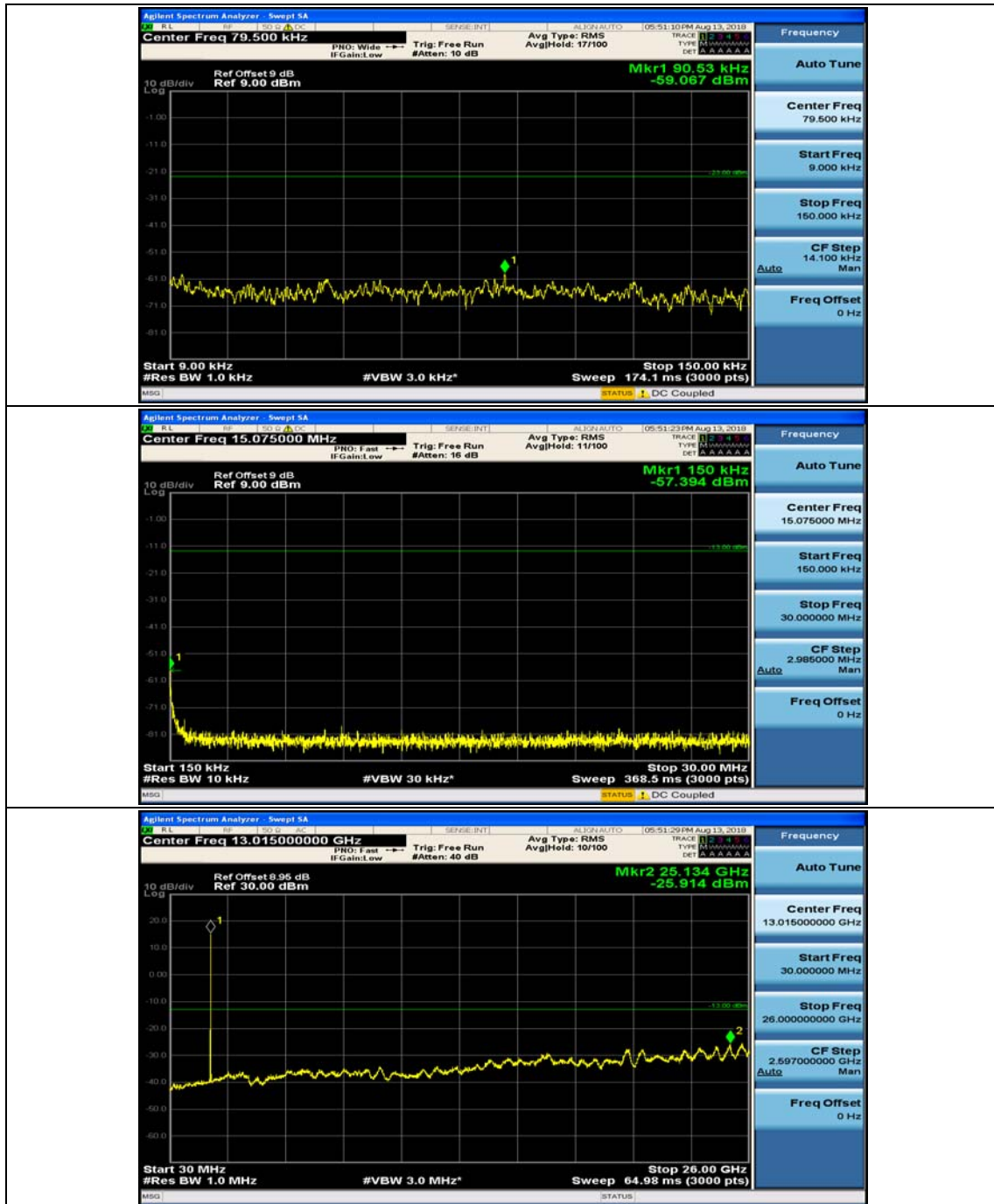


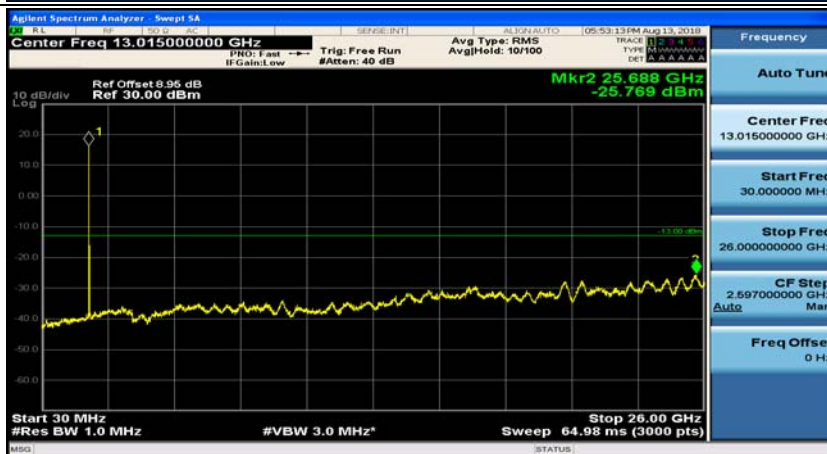
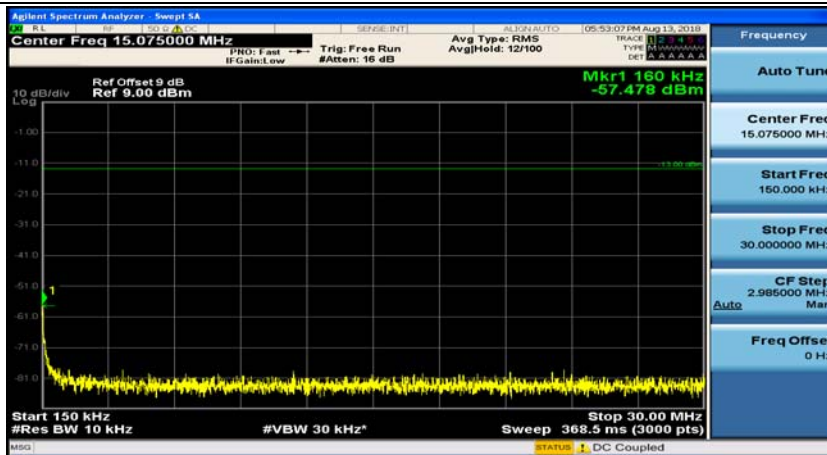
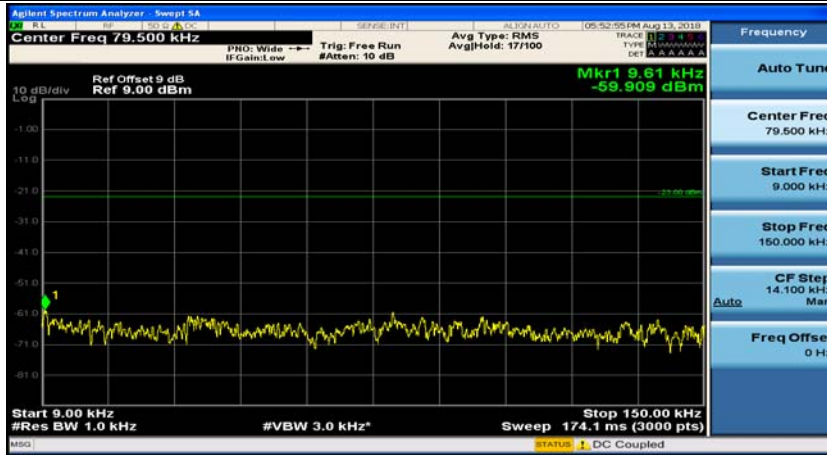
Channel Bandwidth: 15 MHz



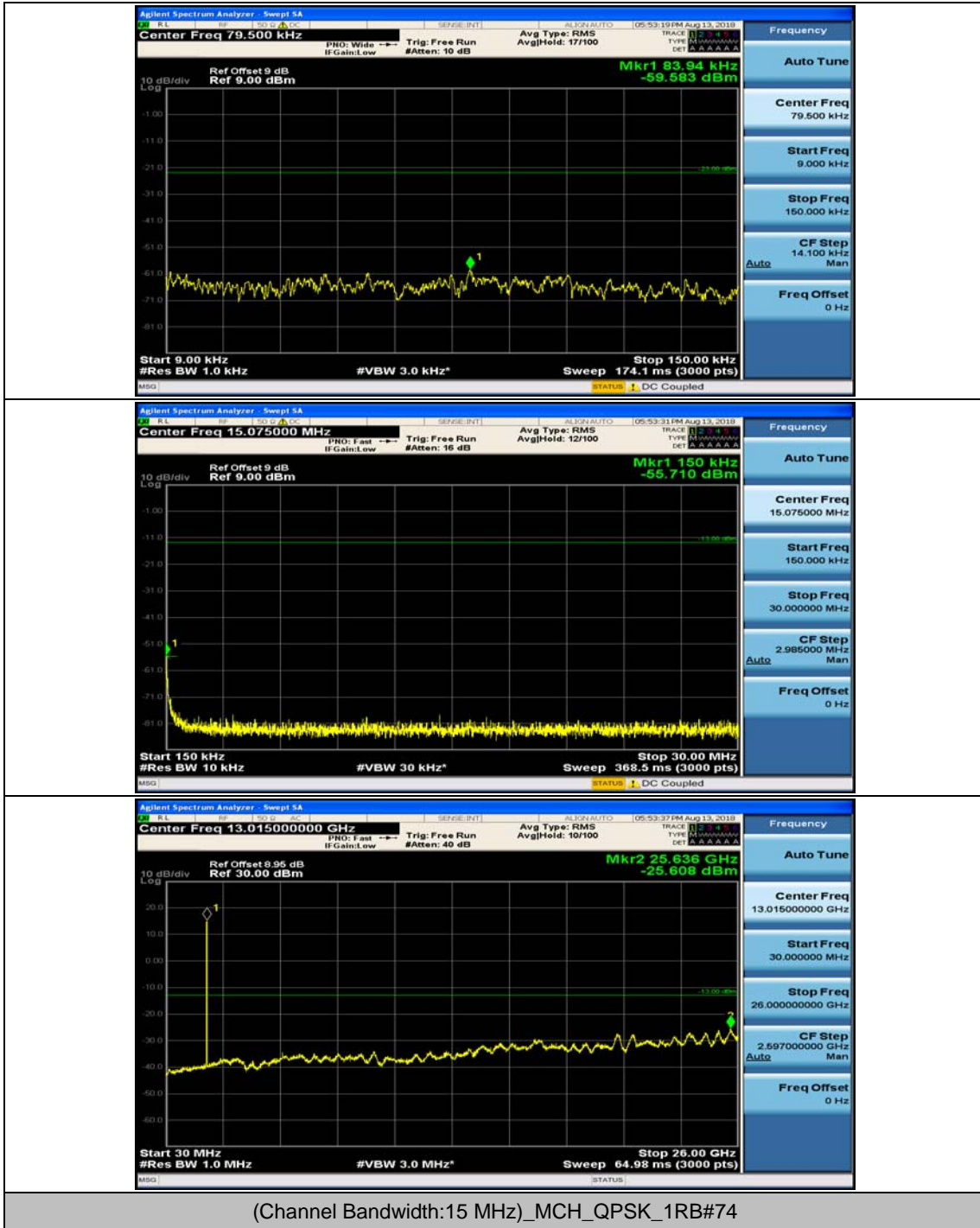


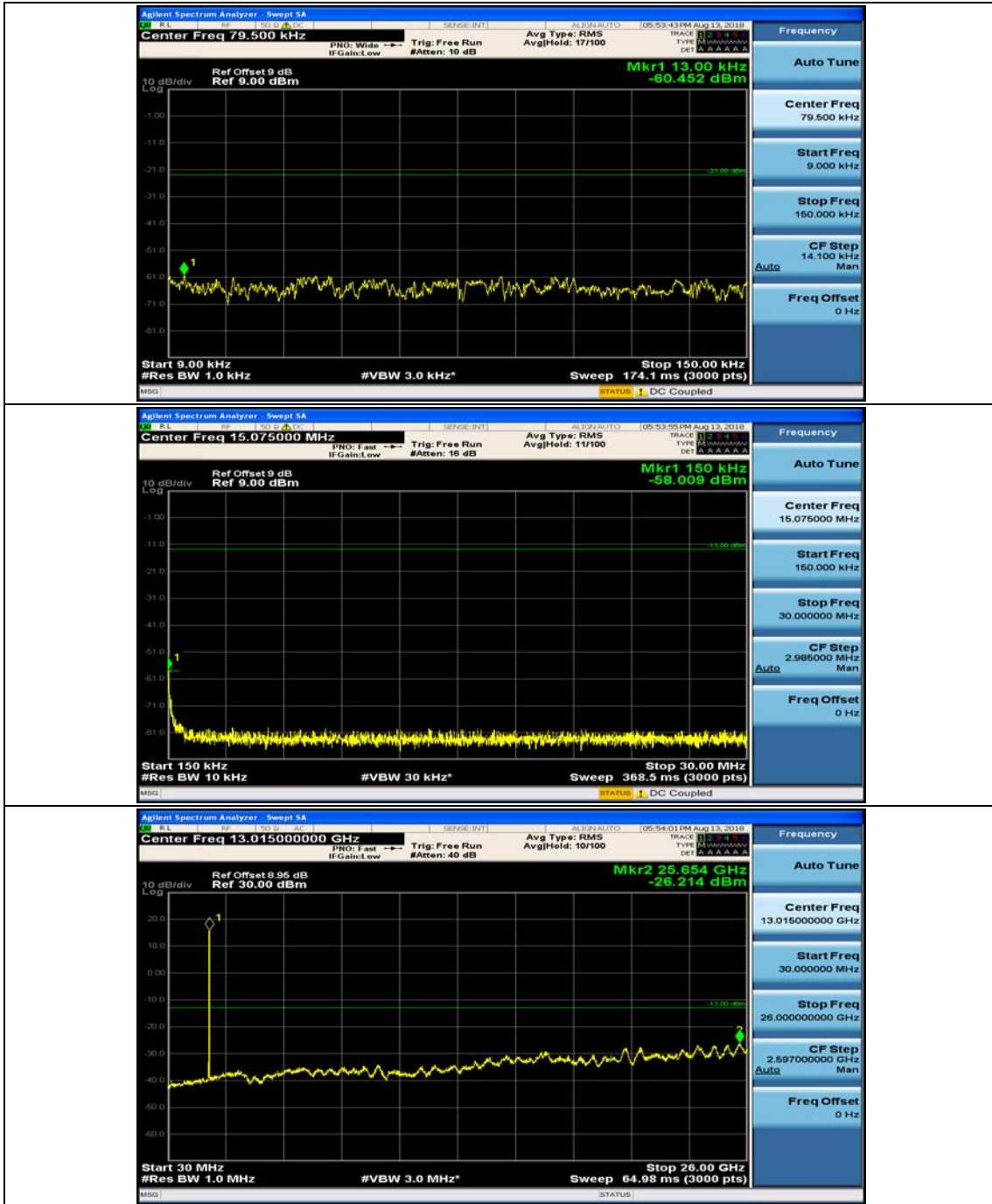


(Channel Bandwidth:15 MHz)_MCH_QPSK_1RB#0

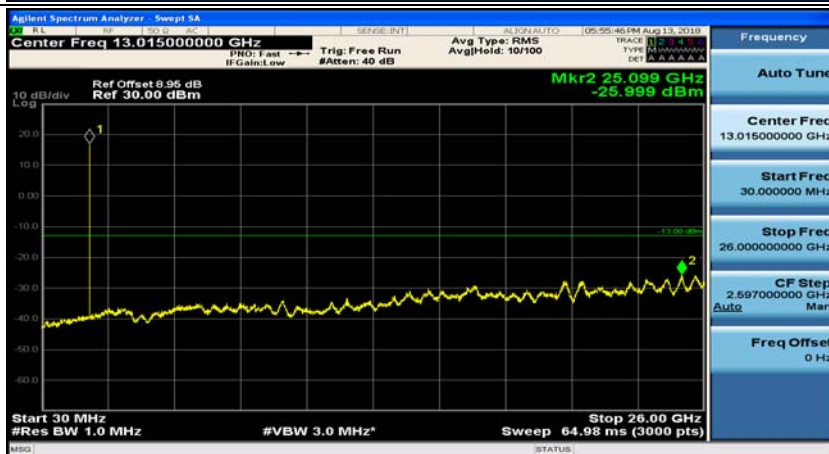
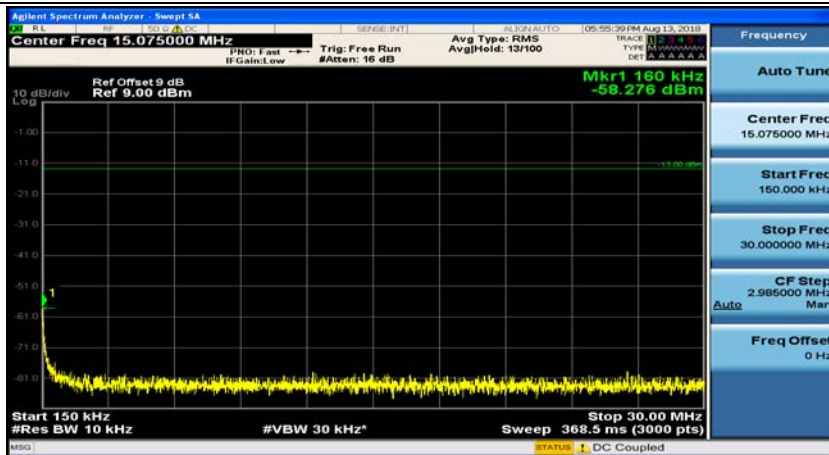
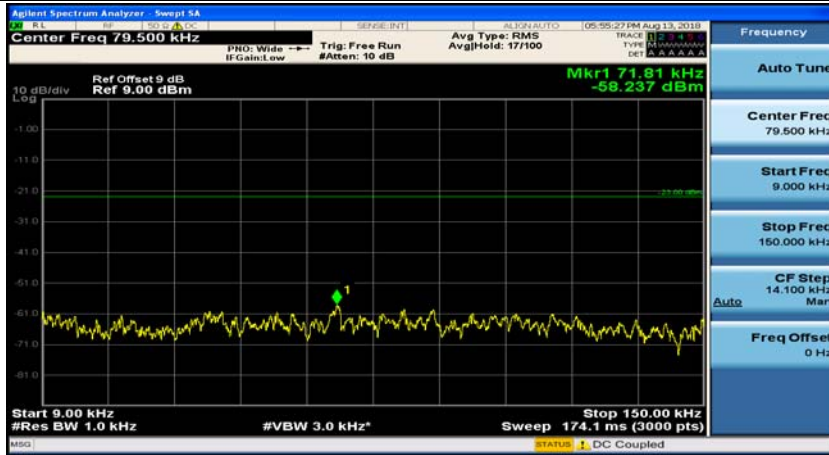


(Channel Bandwidth:15 MHz)_MCH_QPSK_1RB#37

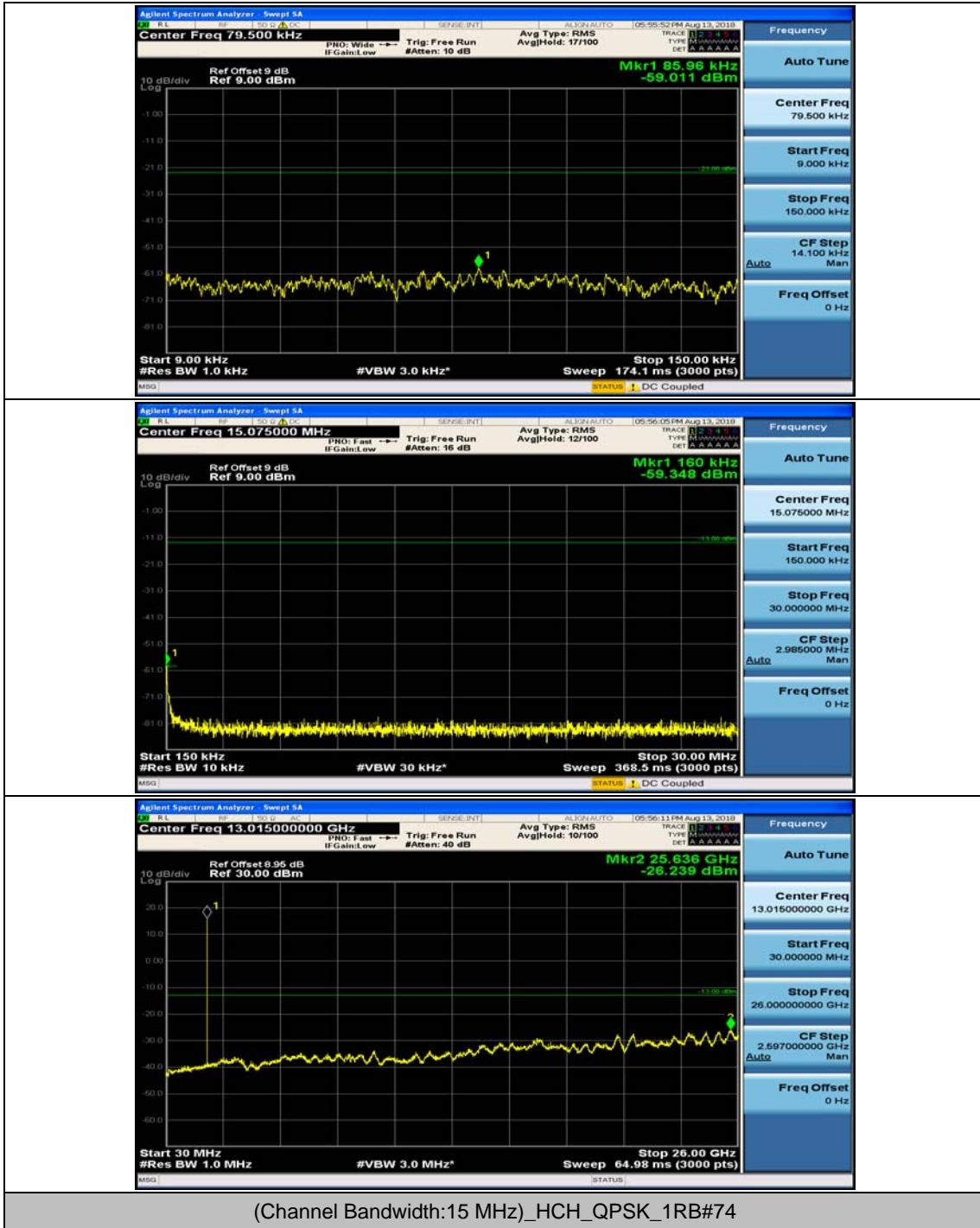


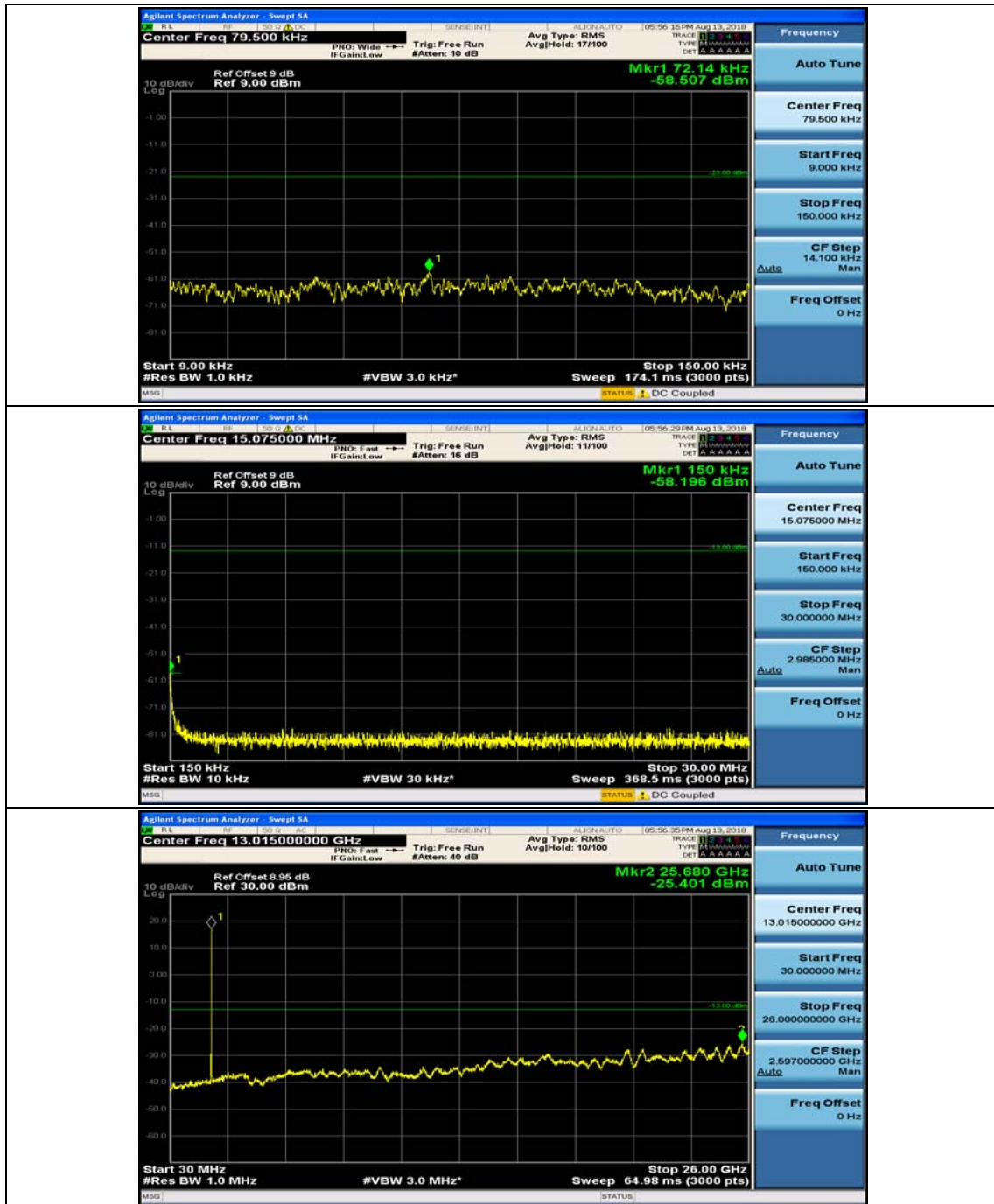


(Channel Bandwidth:15 MHz)_HCH_QPSK_1RB#0

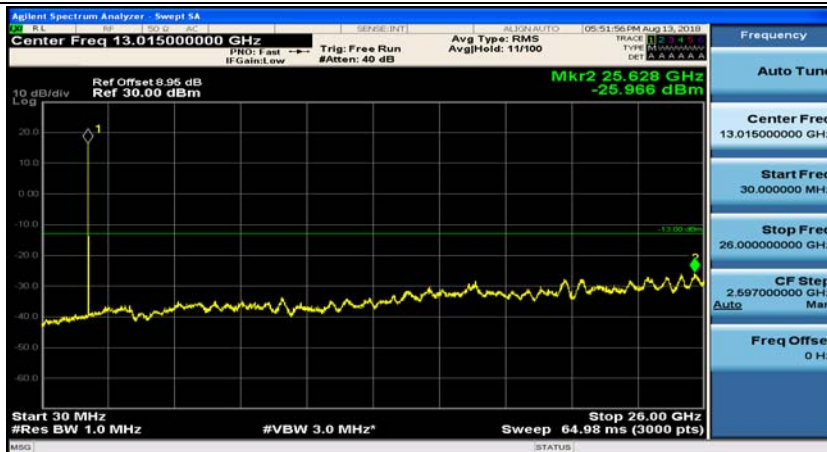
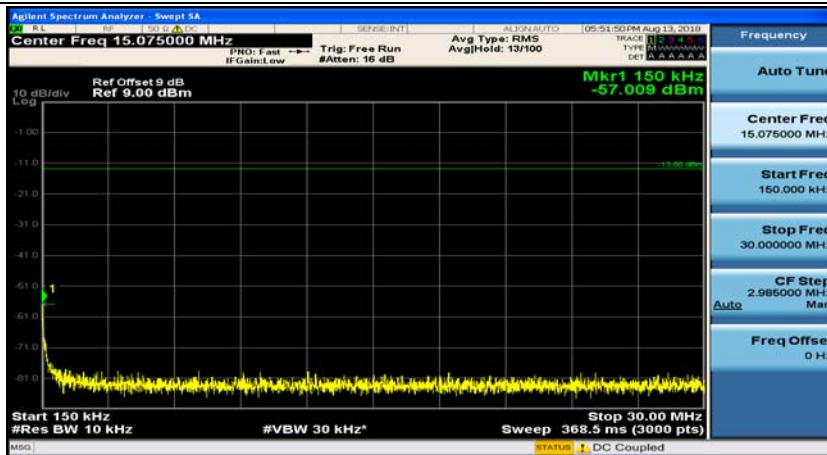
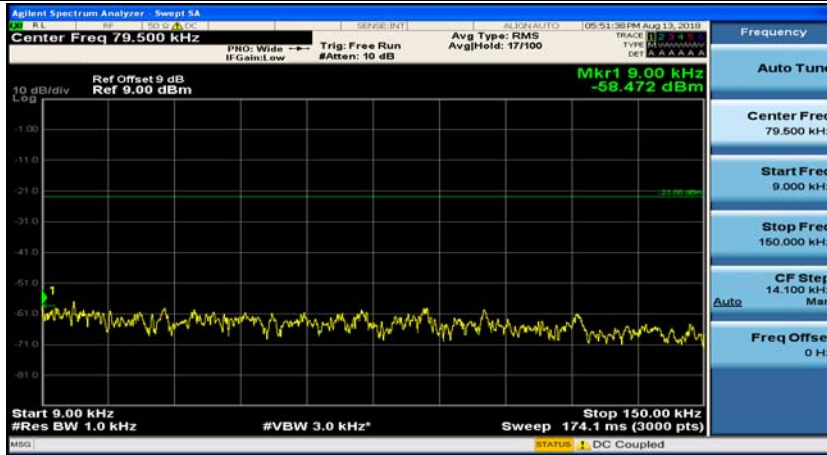


(Channel Bandwidth:15 MHz)_HCH_QPSK_1RB#37

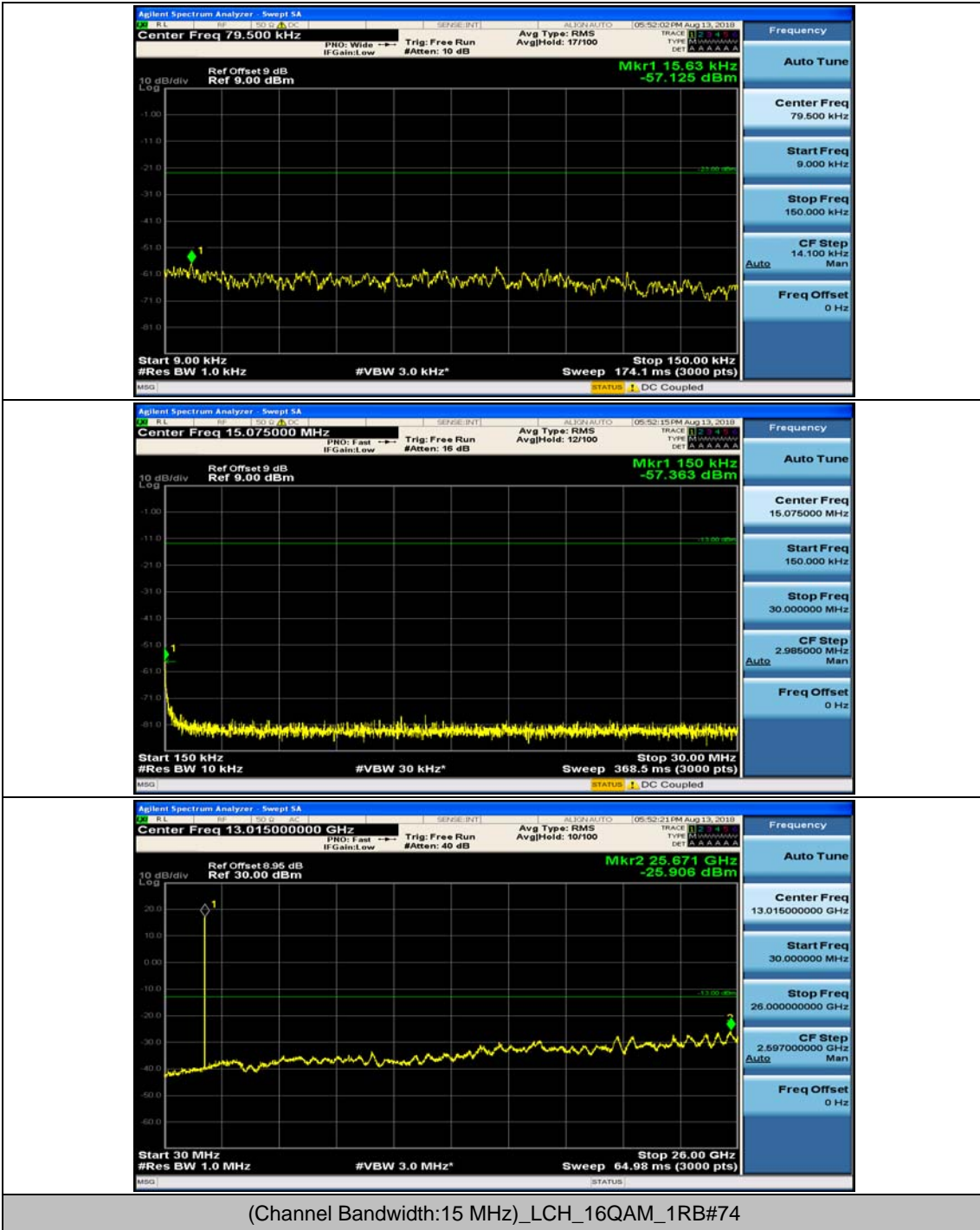


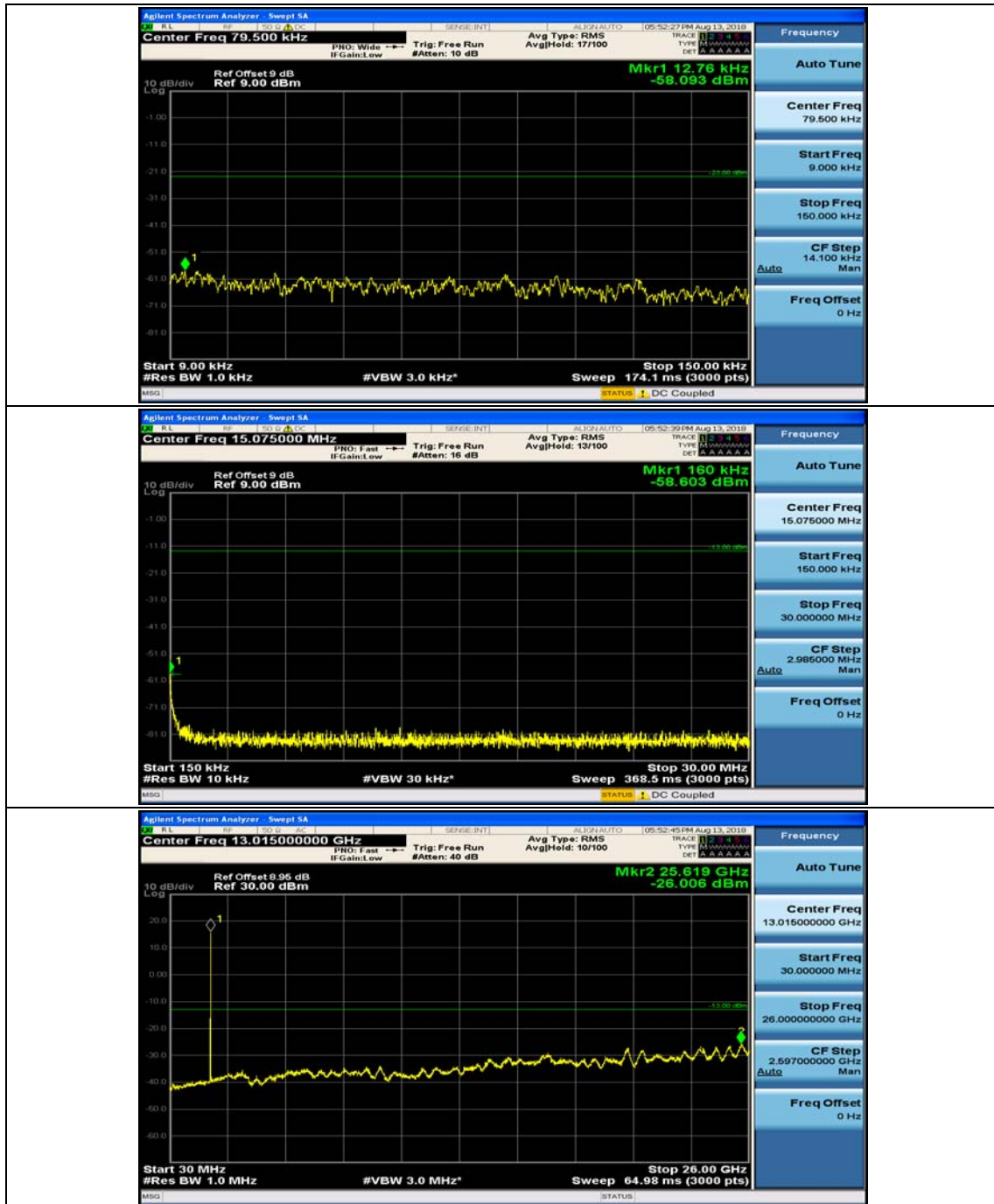


(Channel Bandwidth:15 MHz)_LCH_16QAM_1RB#0

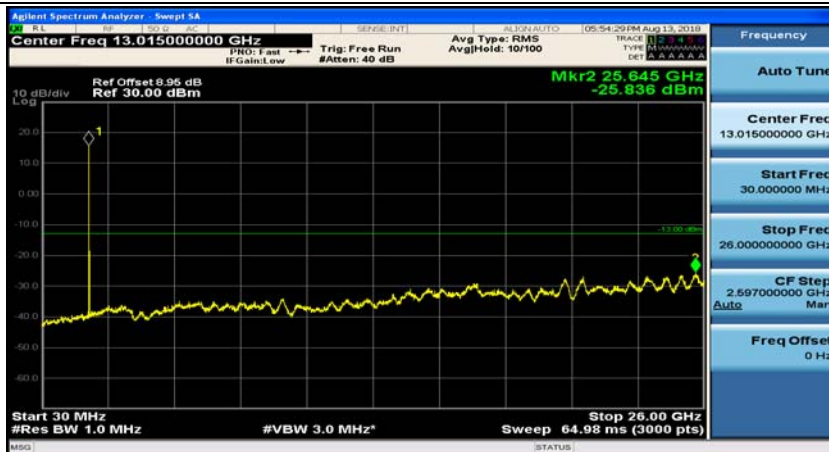
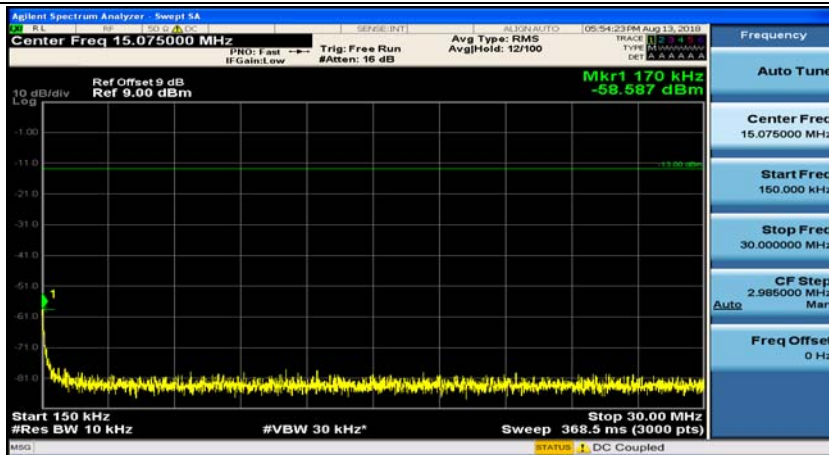


(Channel Bandwidth:15 MHz)_LCH_16QAM_1RB#37

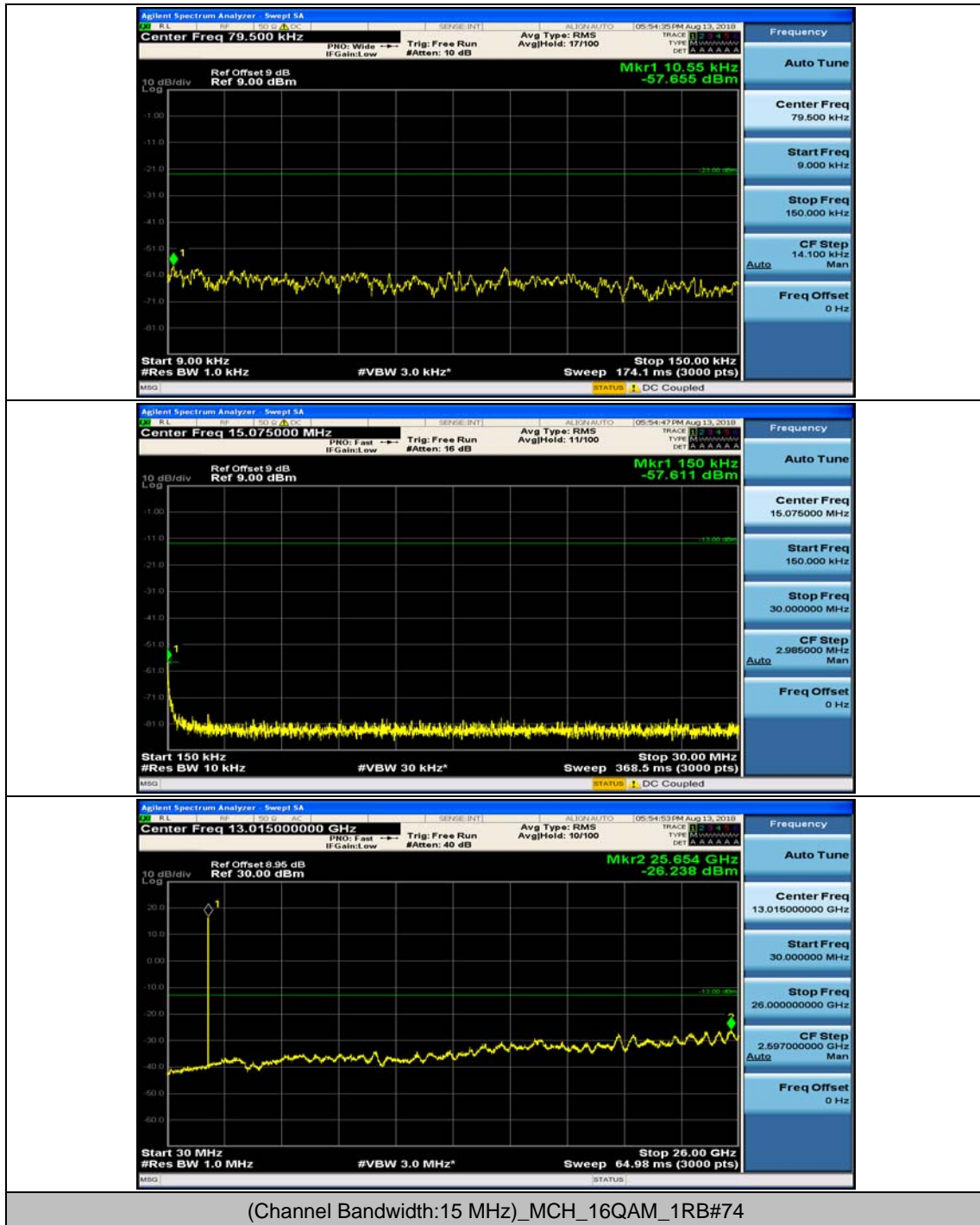


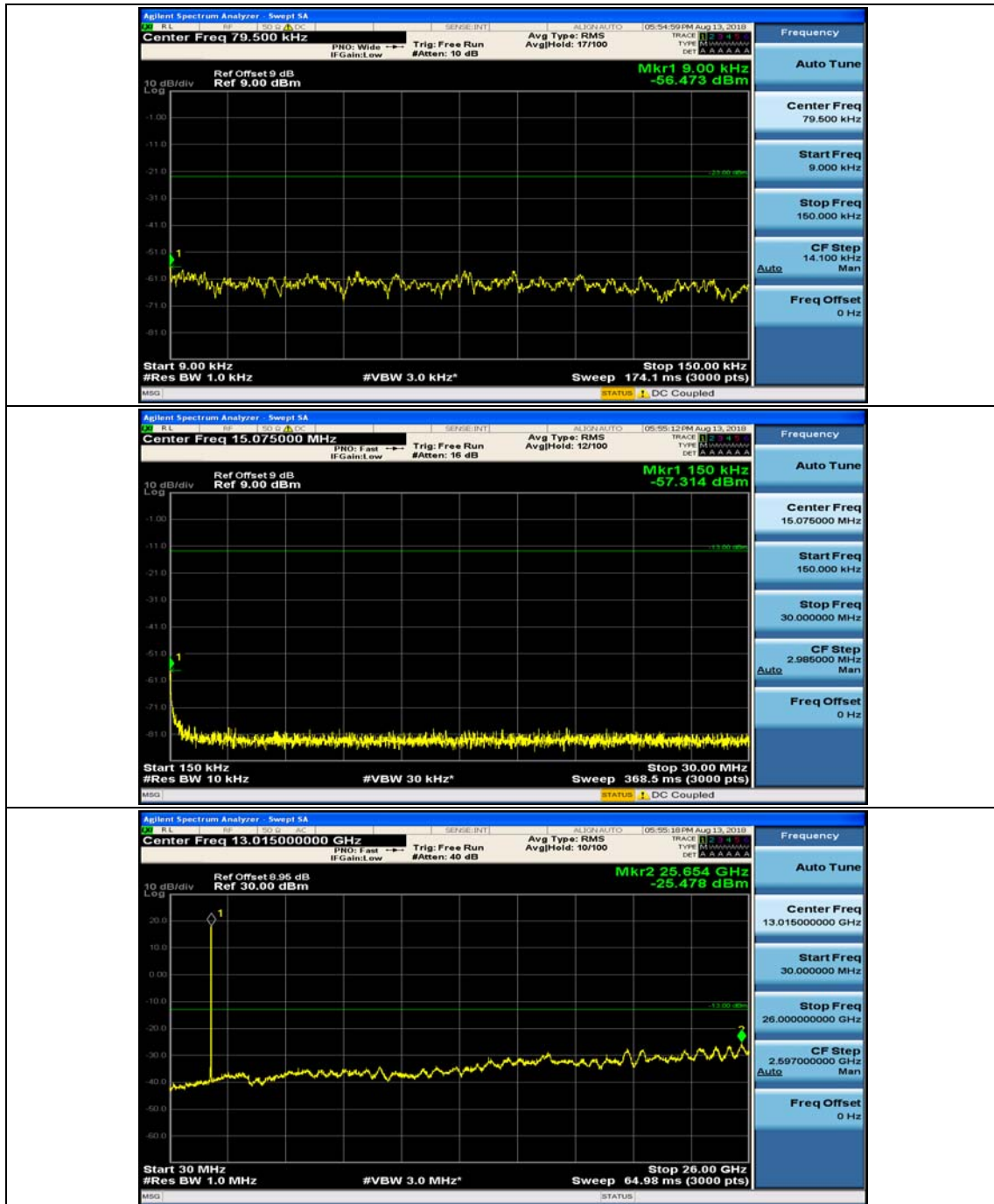


(Channel Bandwidth:15 MHz)_MCH_16QAM_1RB#0

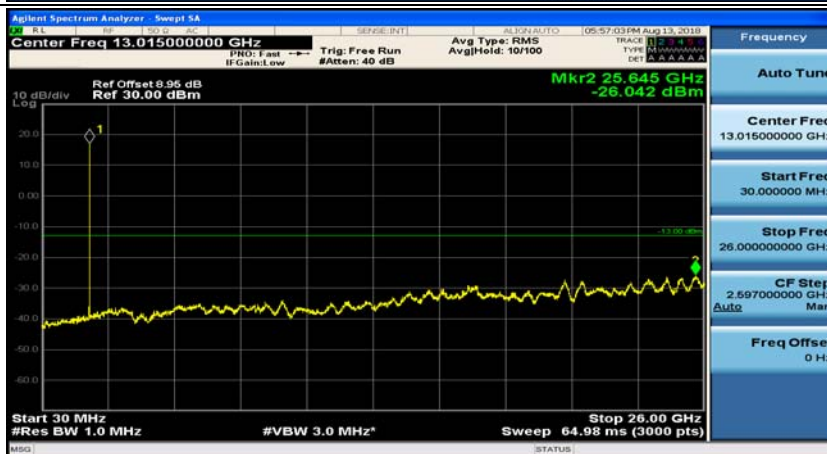
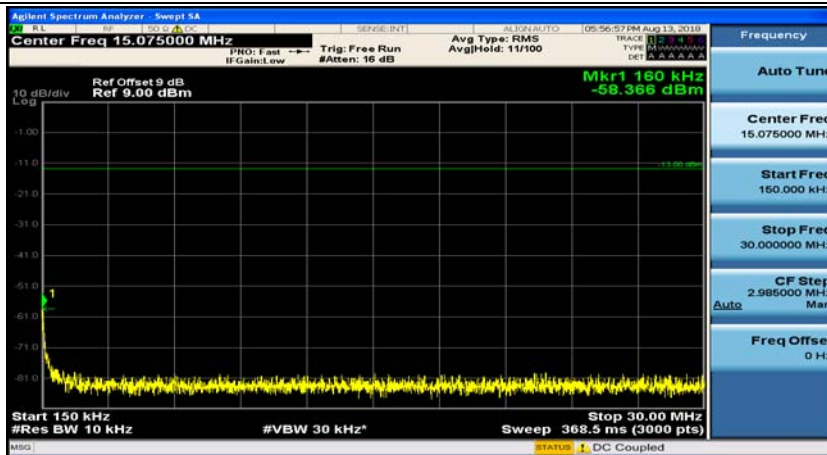


(Channel Bandwidth:15 MHz)_MCH_16QAM_1RB#37

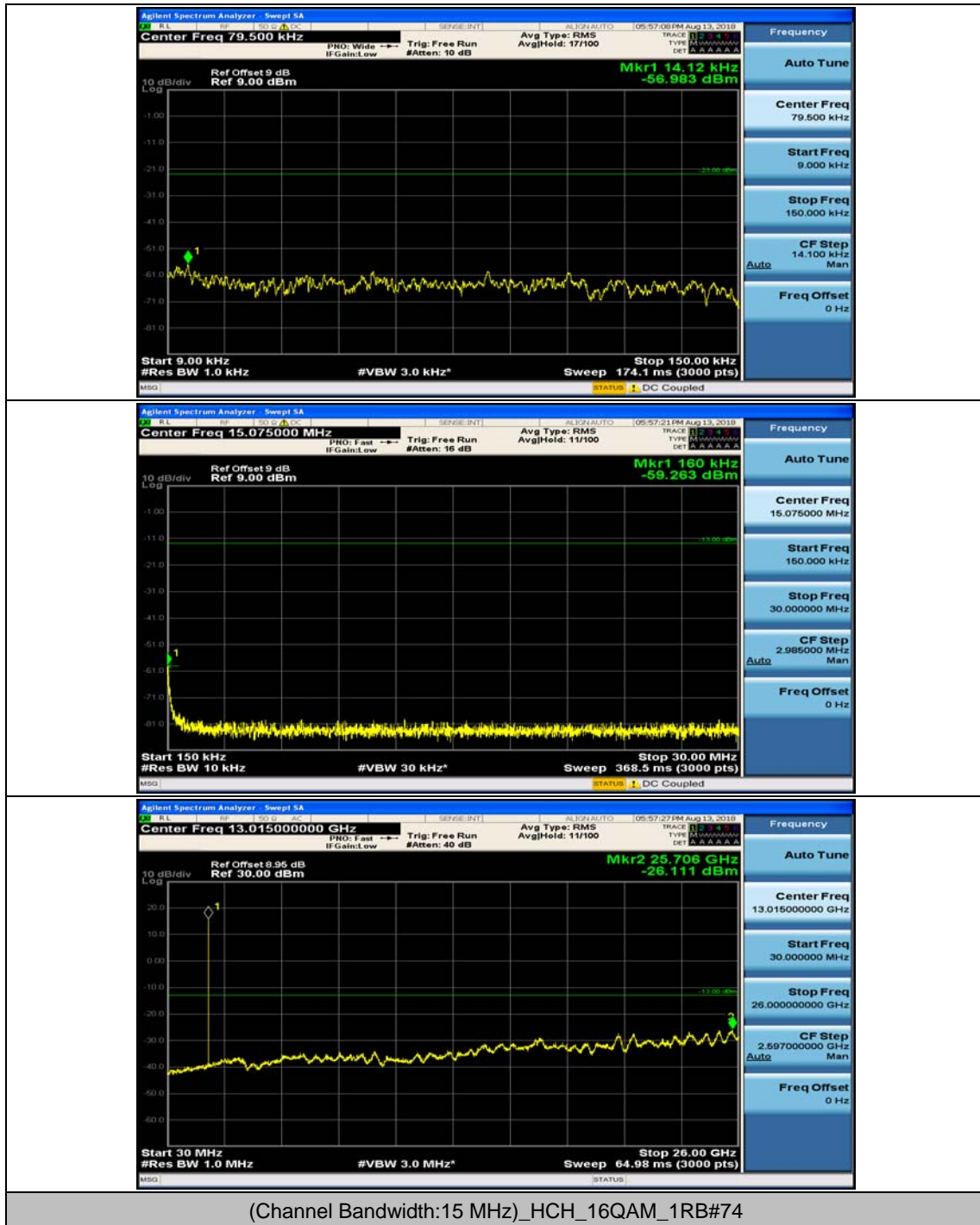


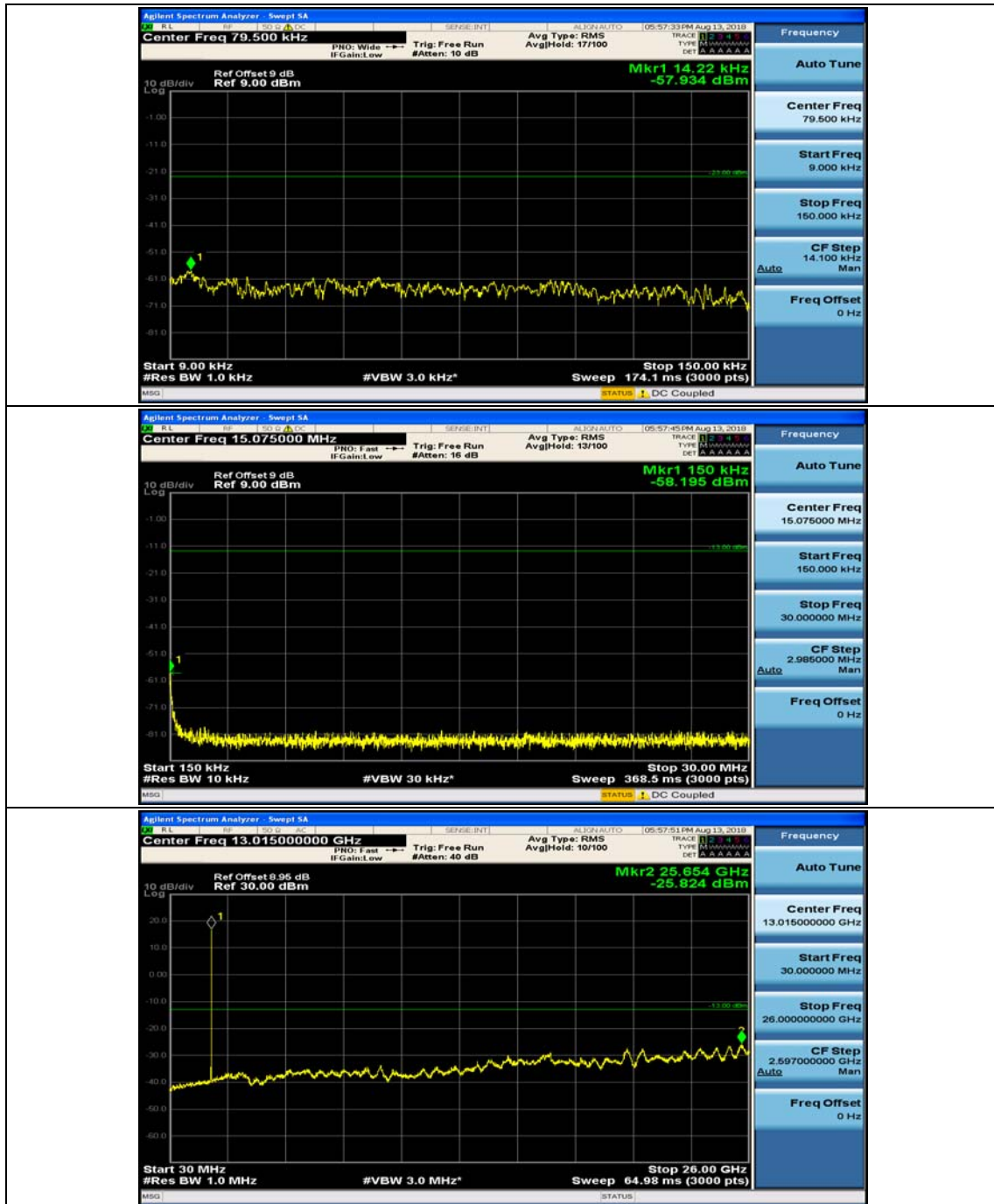


(Channel Bandwidth:15 MHz)_HCH_16QAM_1RB#0

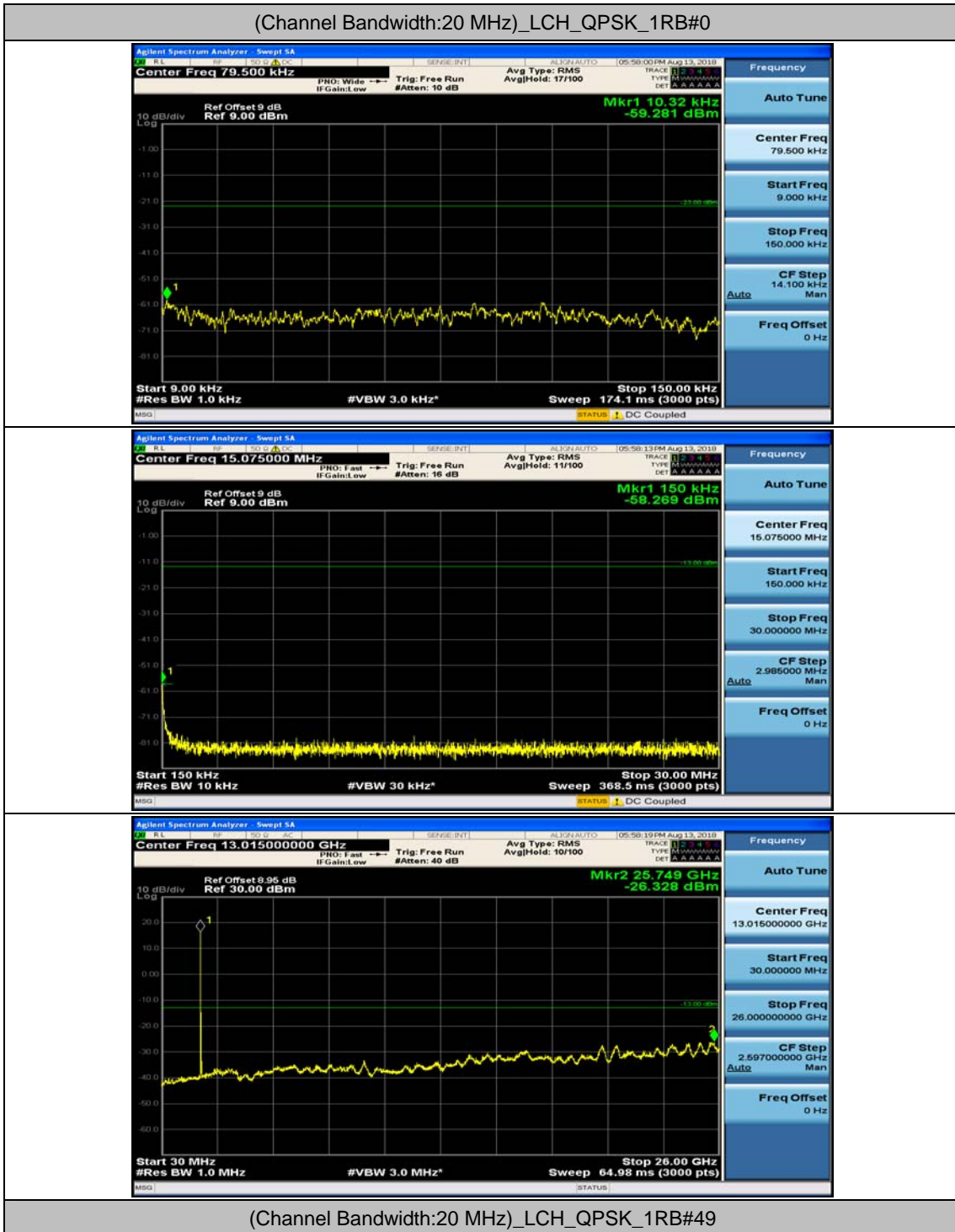


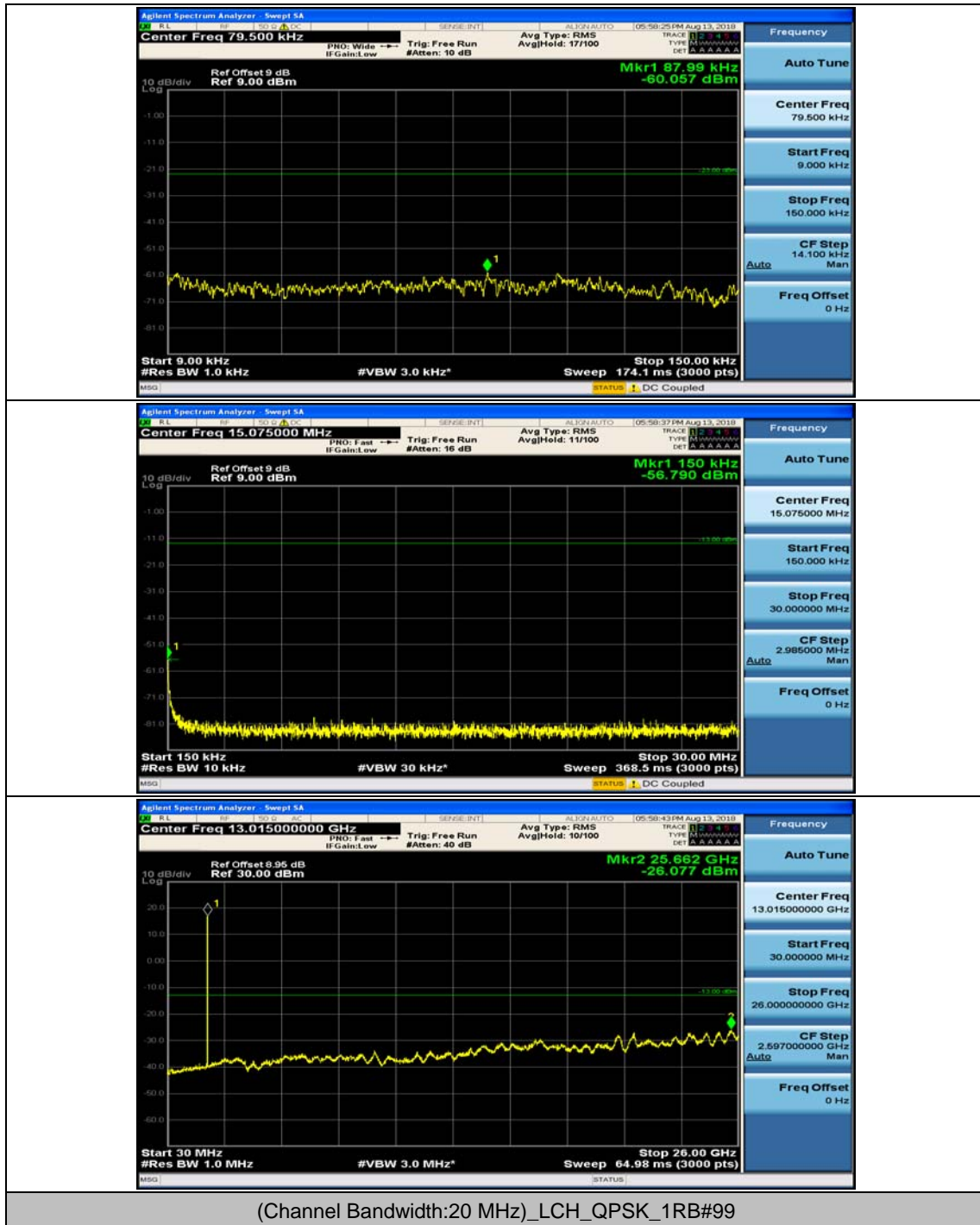
(Channel Bandwidth:15 MHz)_HCH_16QAM_1RB#37

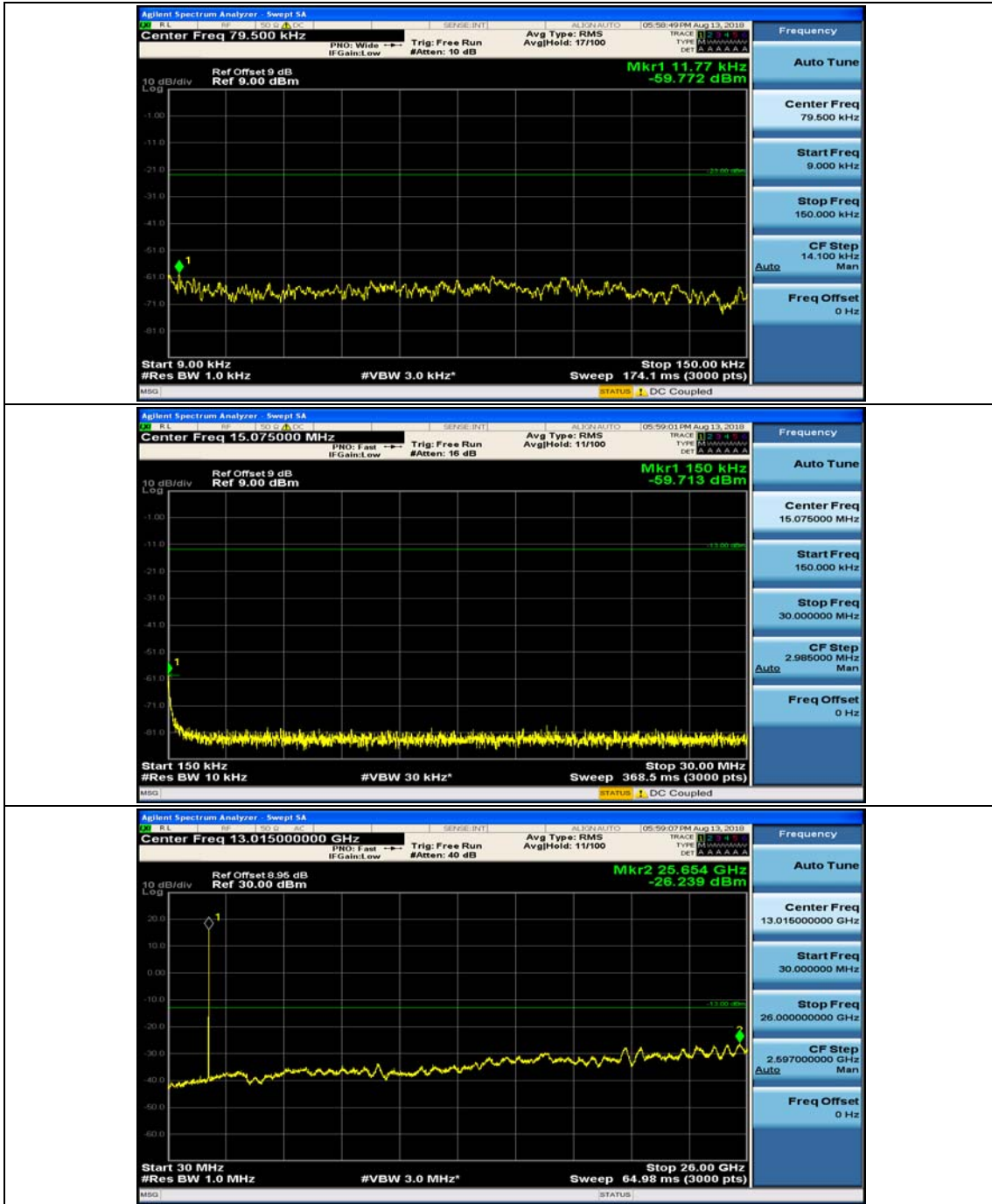




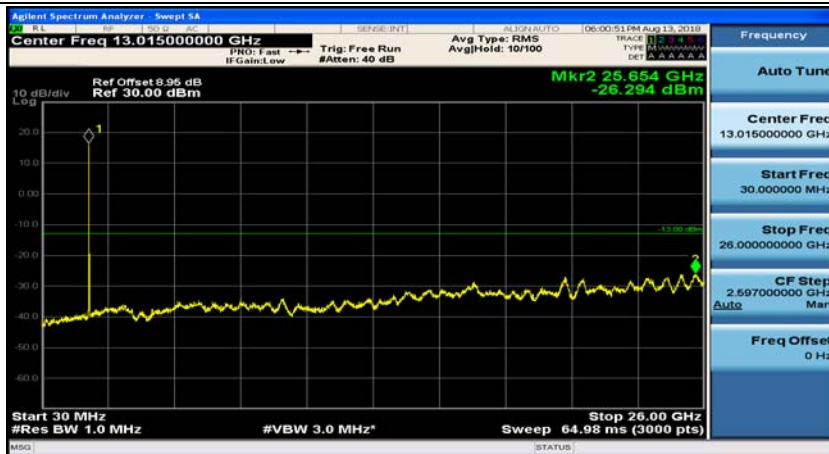
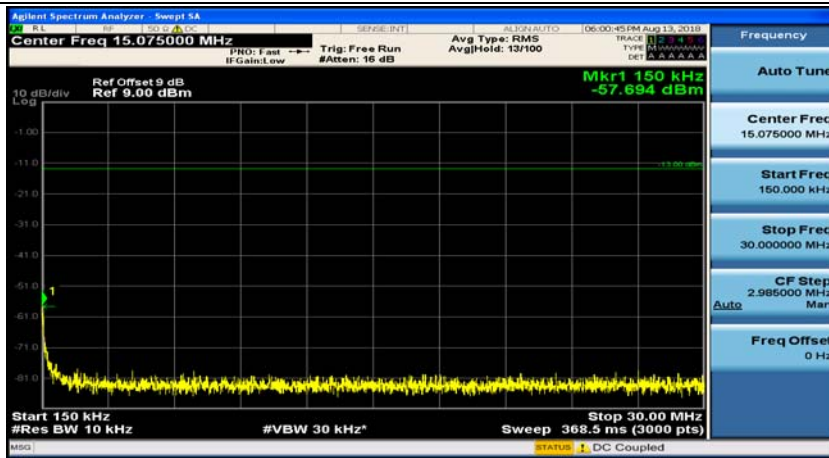
Channel Bandwidth: 20 MHz



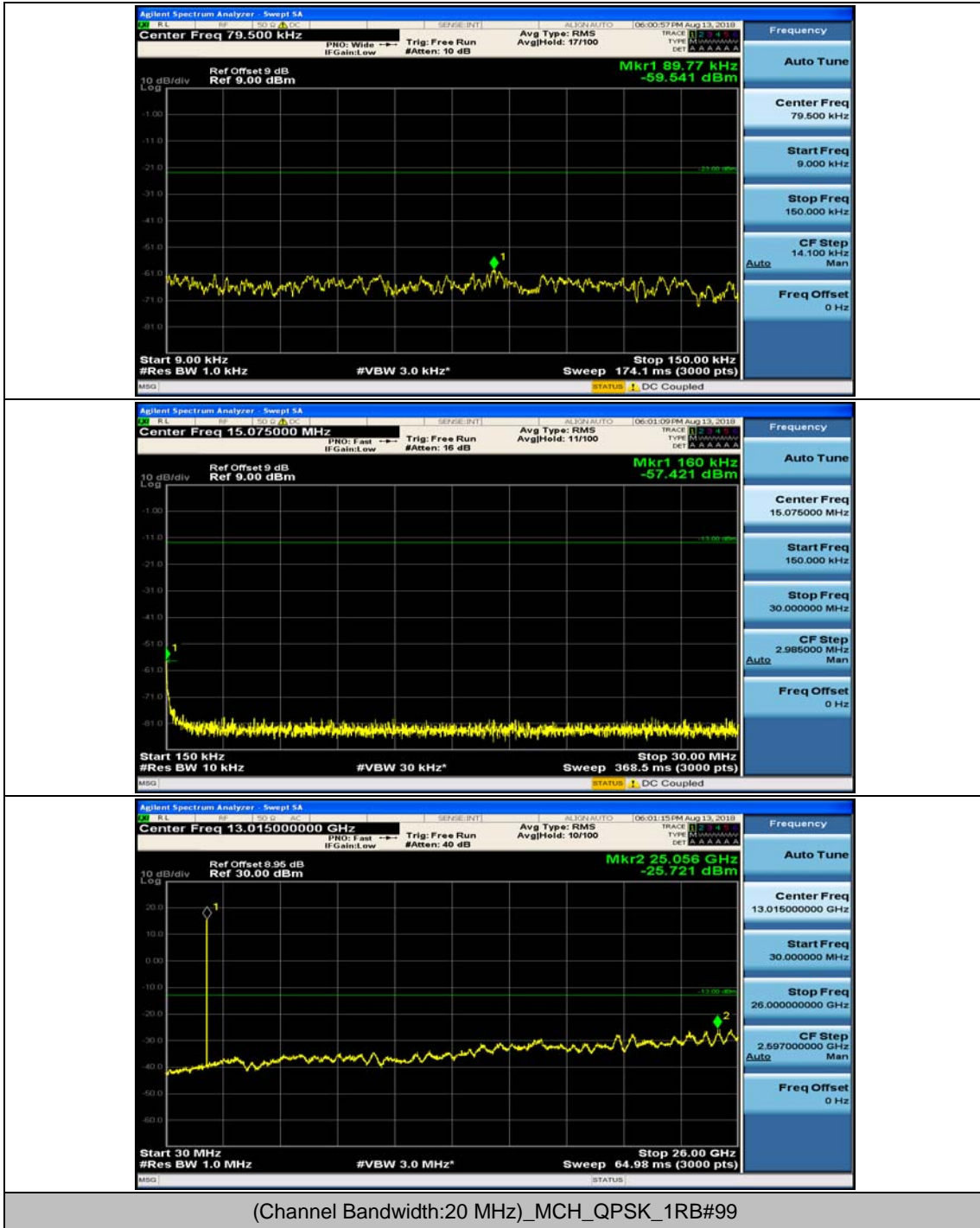


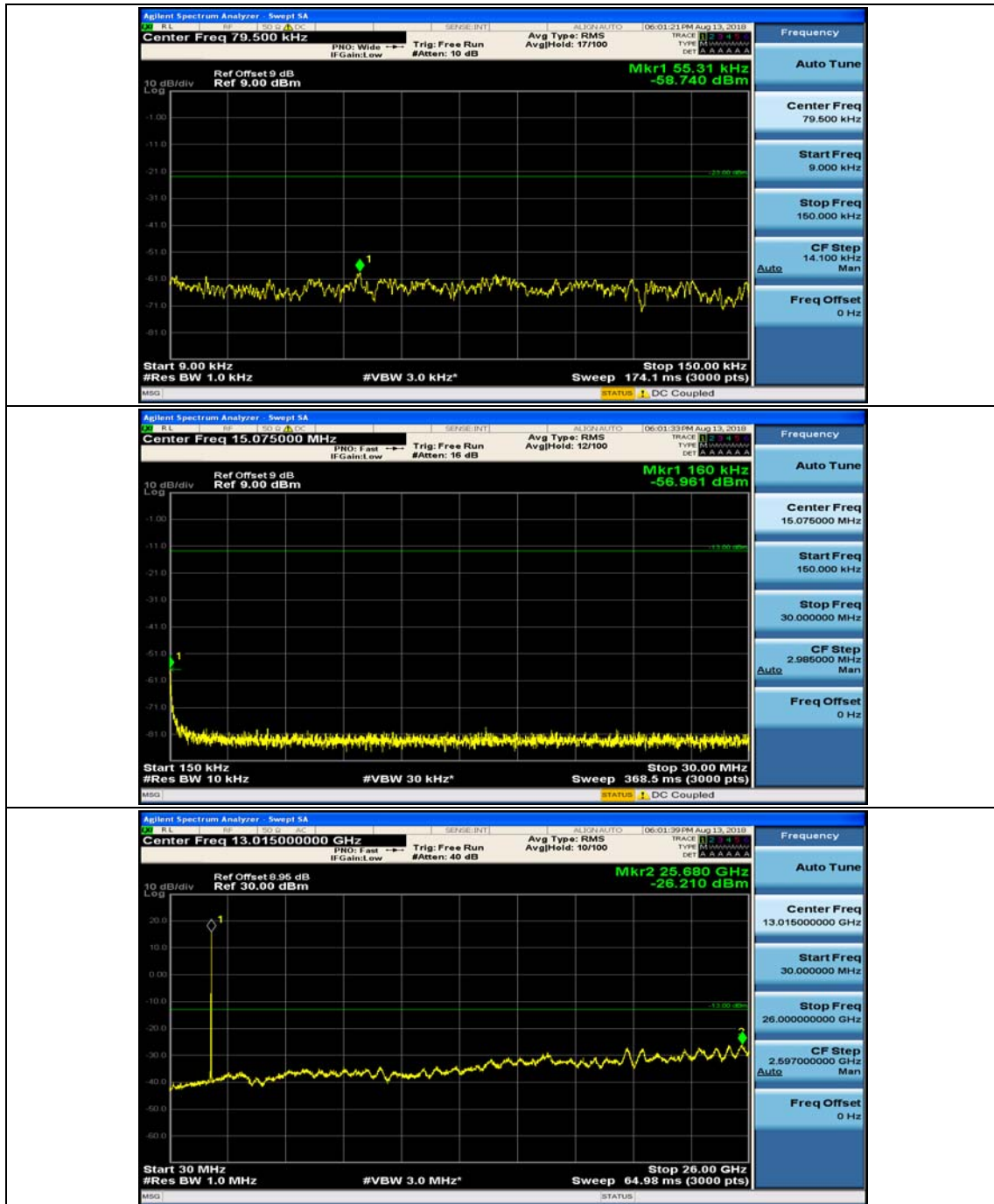


(Channel Bandwidth:20 MHz)_MCH_QPSK_1RB#0

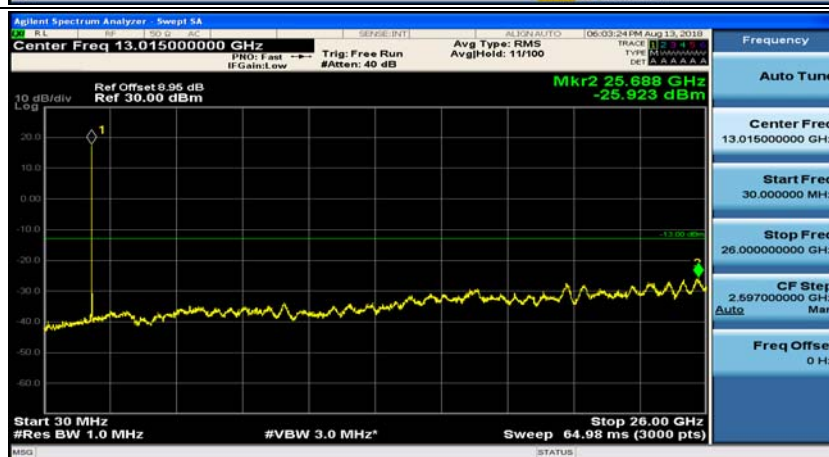
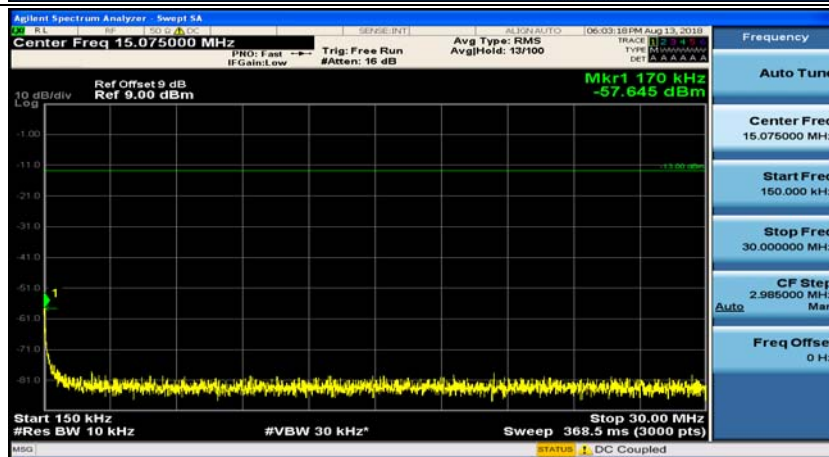
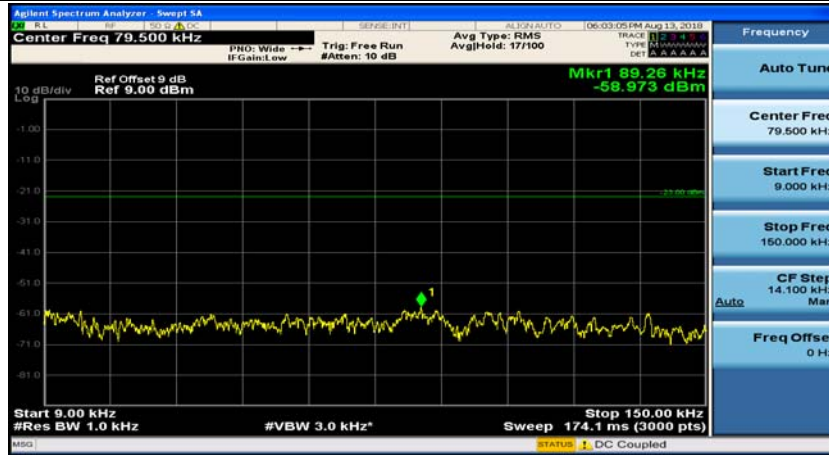


(Channel Bandwidth:20 MHz)_MCH_QPSK_1RB#49

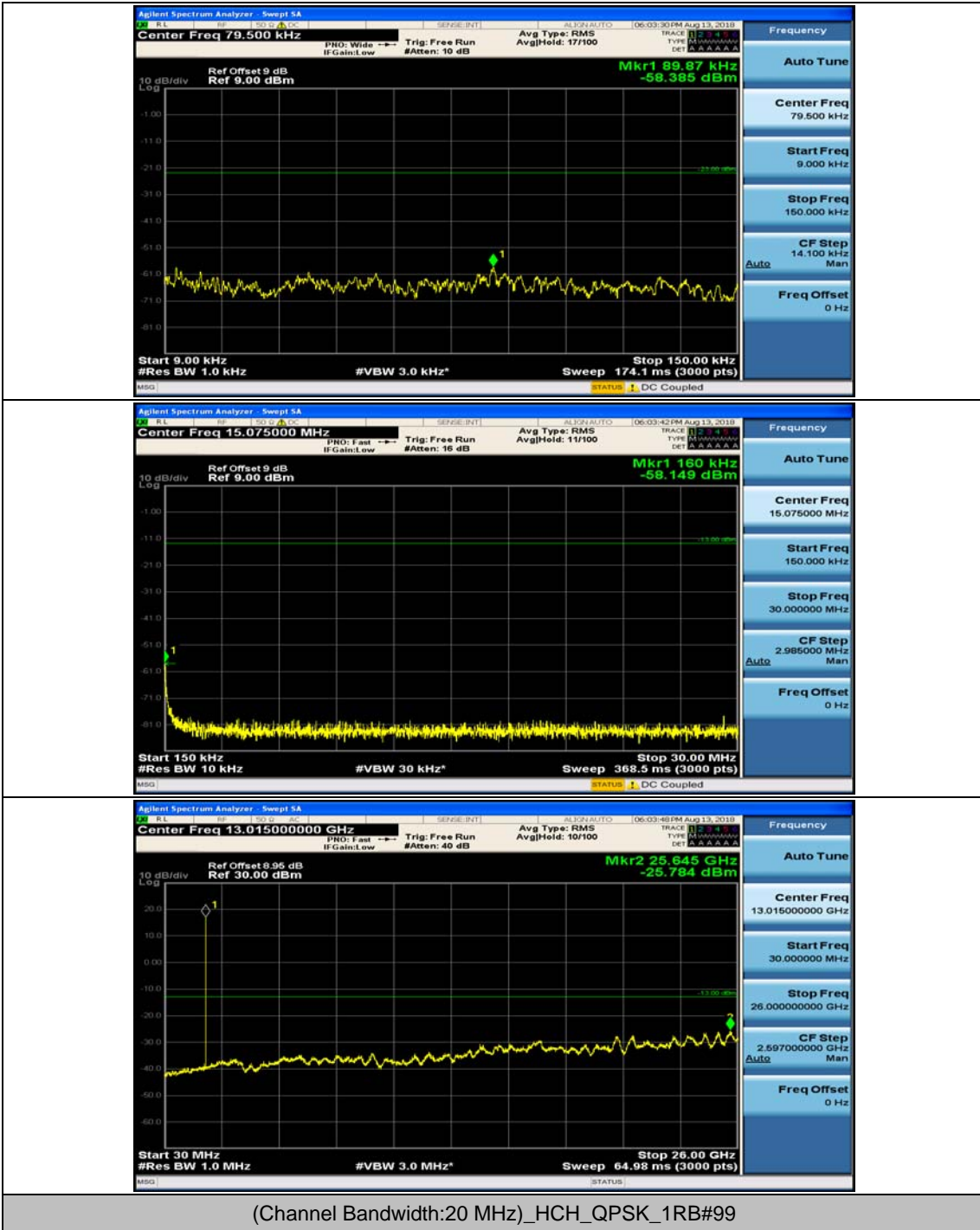


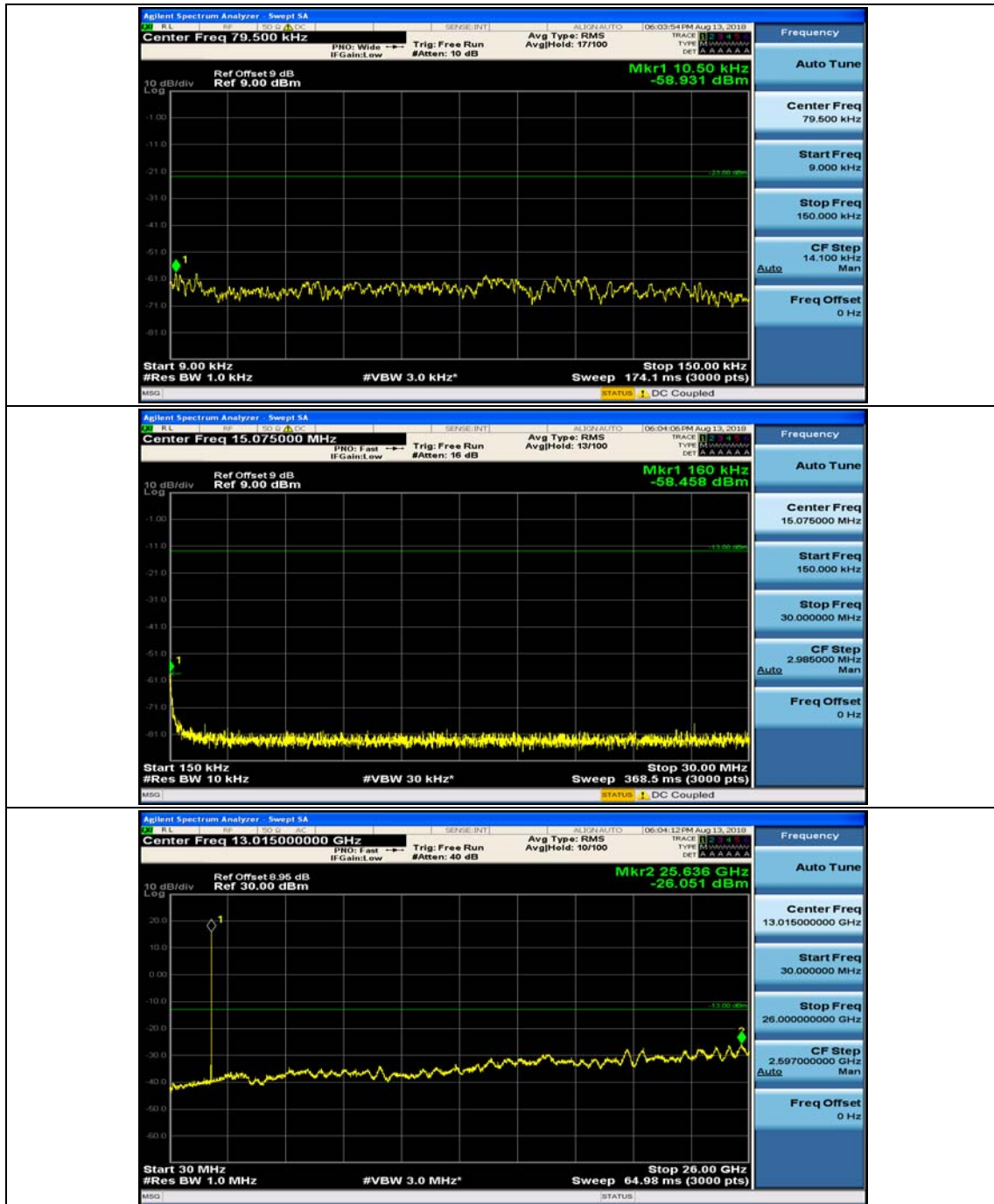


(Channel Bandwidth:20 MHz)_HCH_QPSK_1RB#0

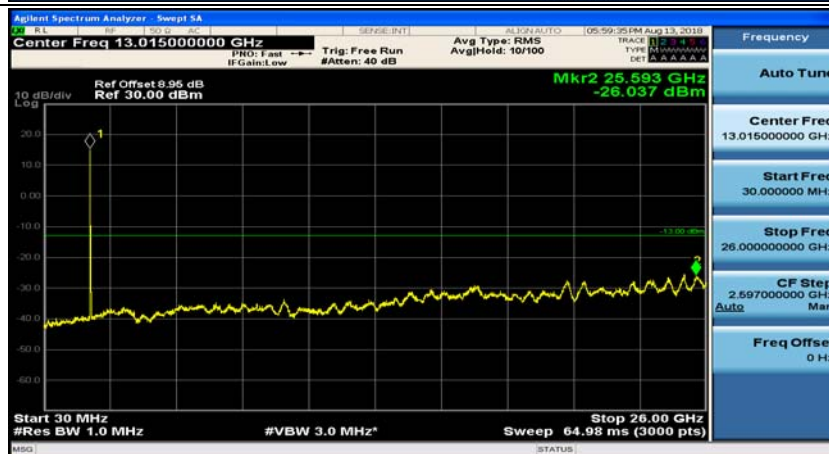
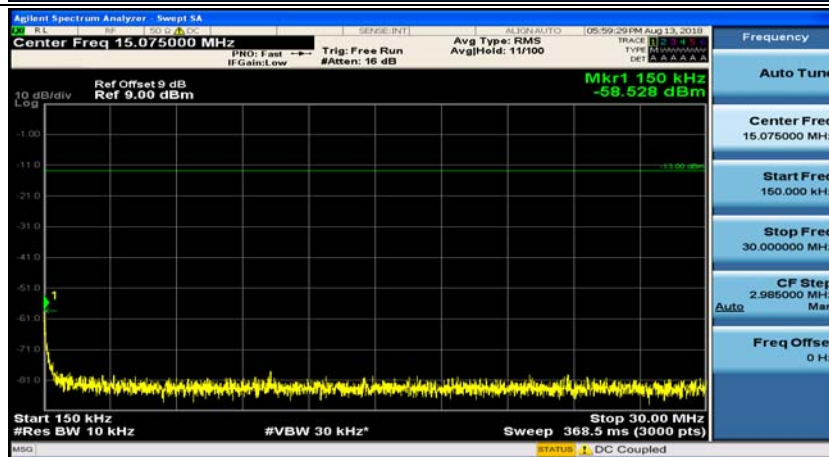


(Channel Bandwidth:20 MHz)_HCH_QPSK_1RB#49

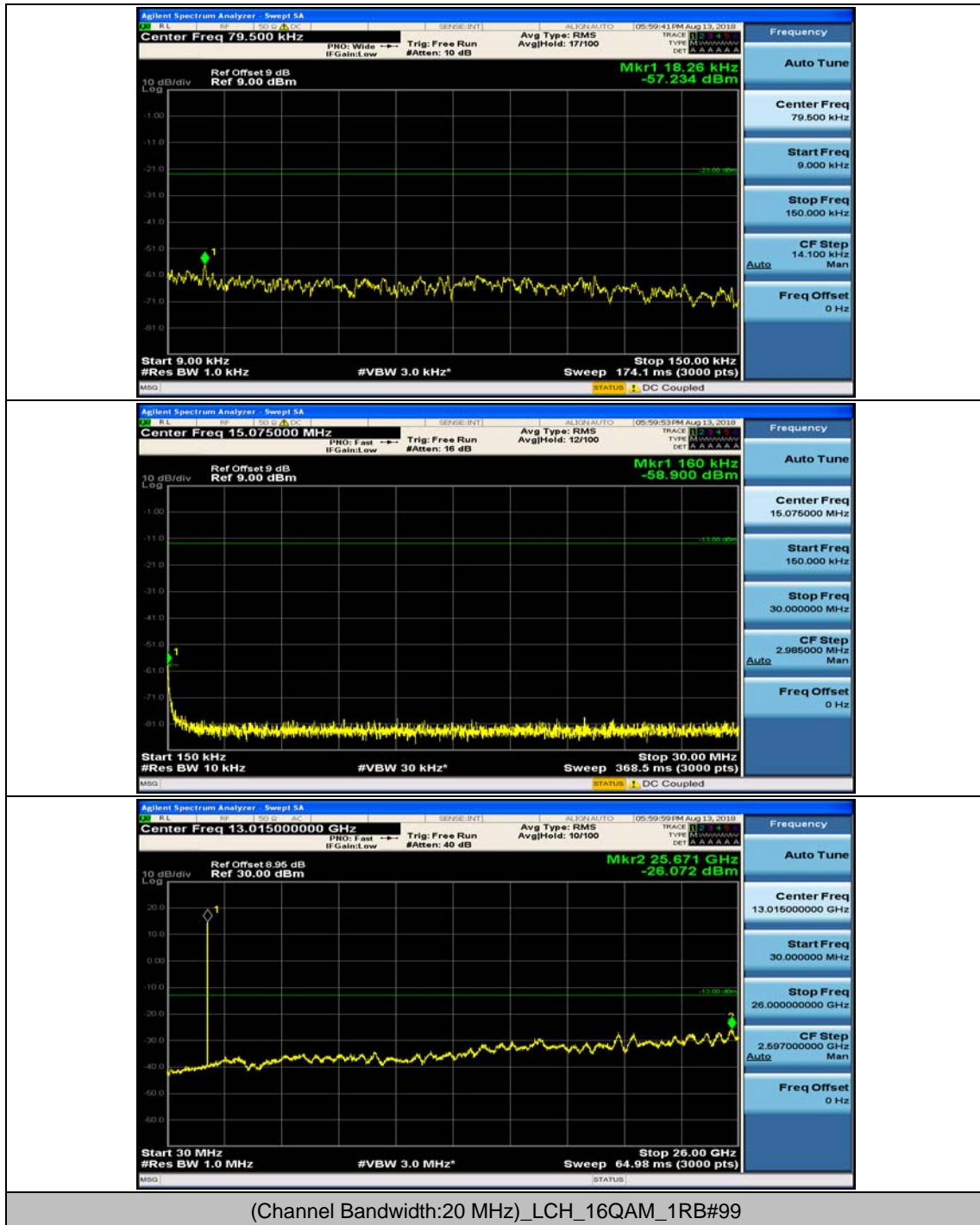


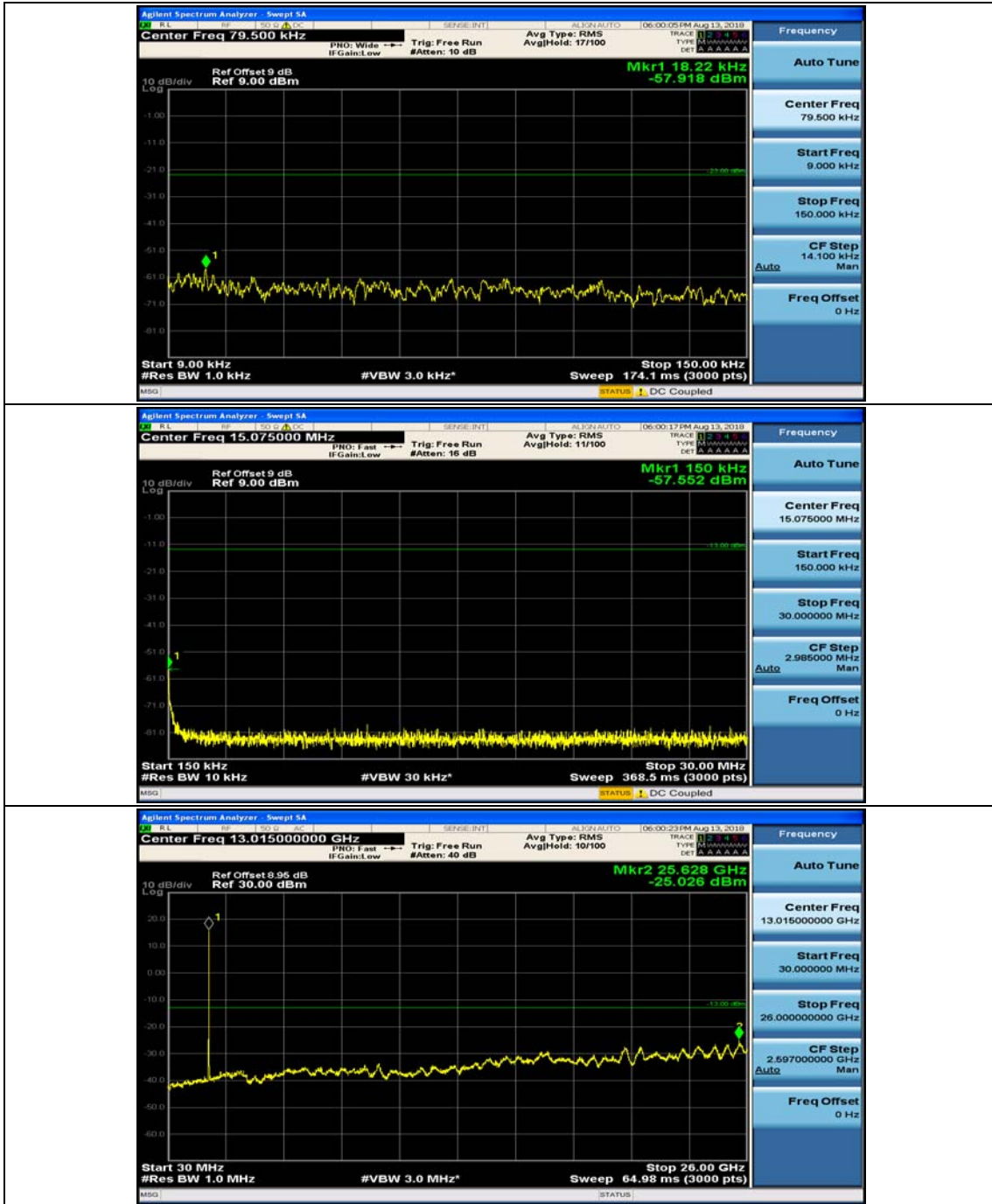


(Channel Bandwidth:20 MHz)_LCH_16QAM_1RB#0

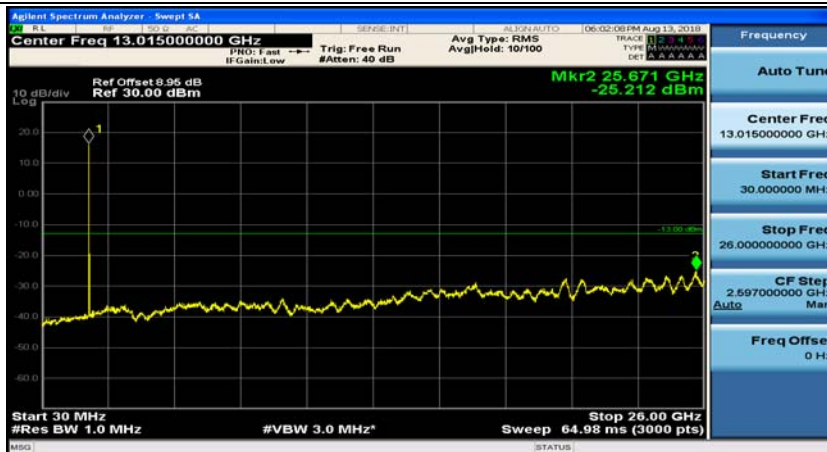
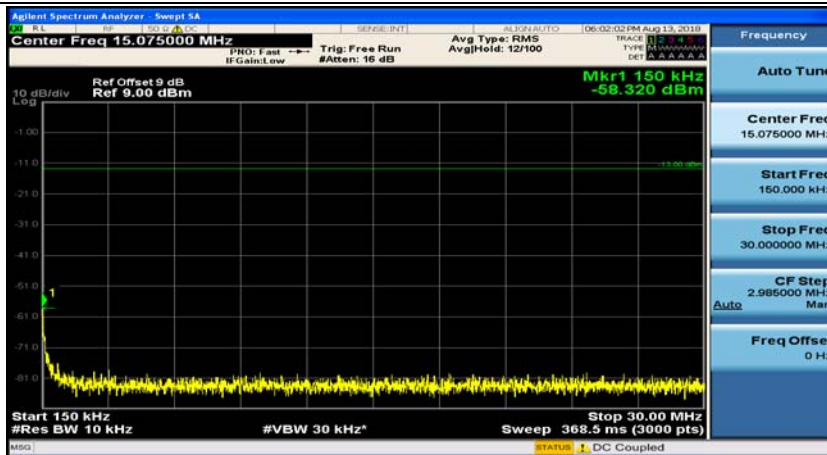
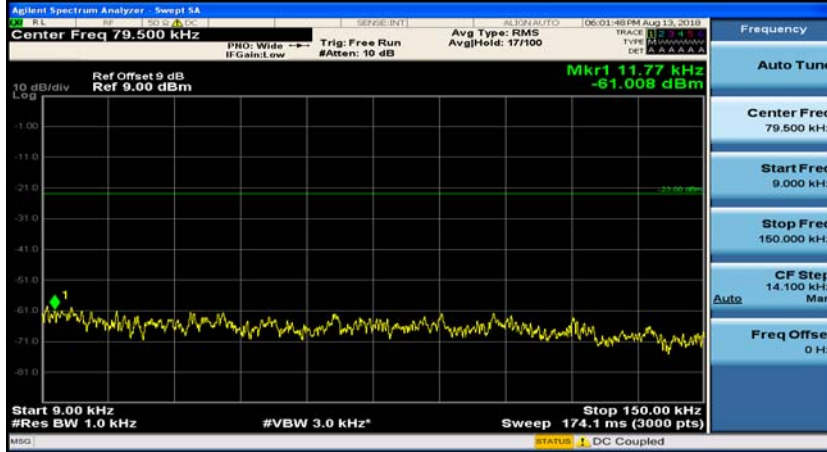


(Channel Bandwidth:20 MHz)_LCH_16QAM_1RB#49

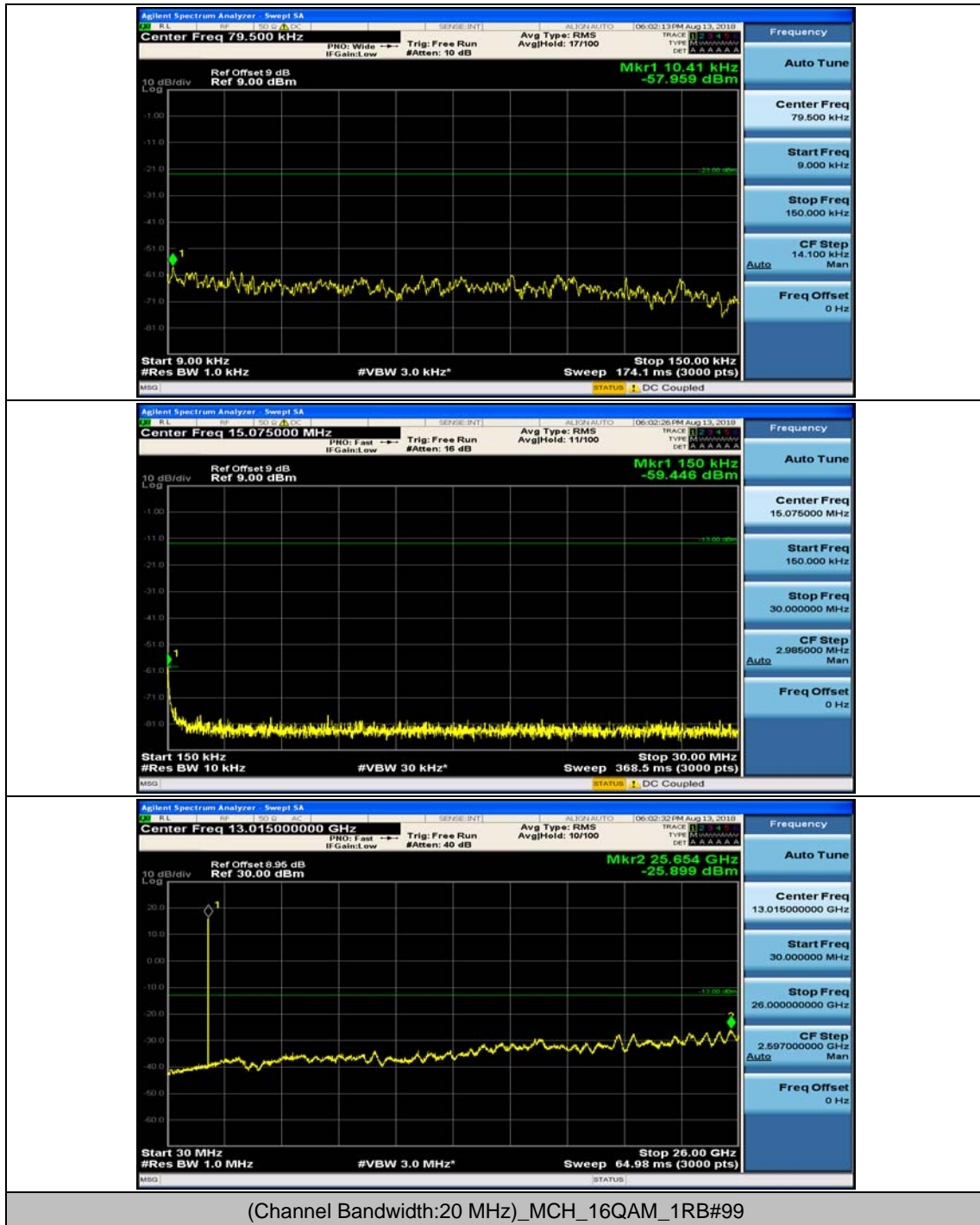


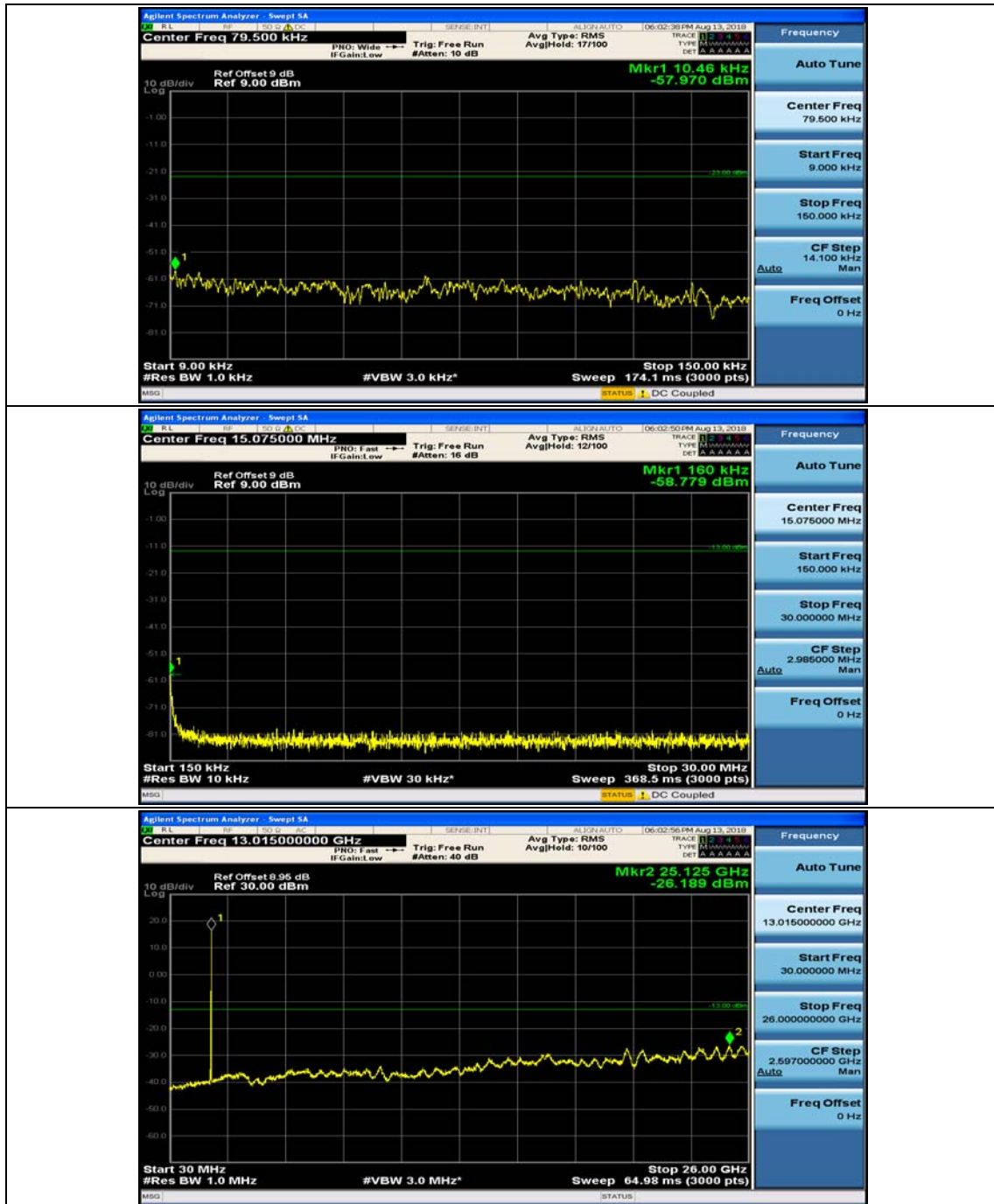


(Channel Bandwidth:20 MHz)_MCH_16QAM_1RB#0

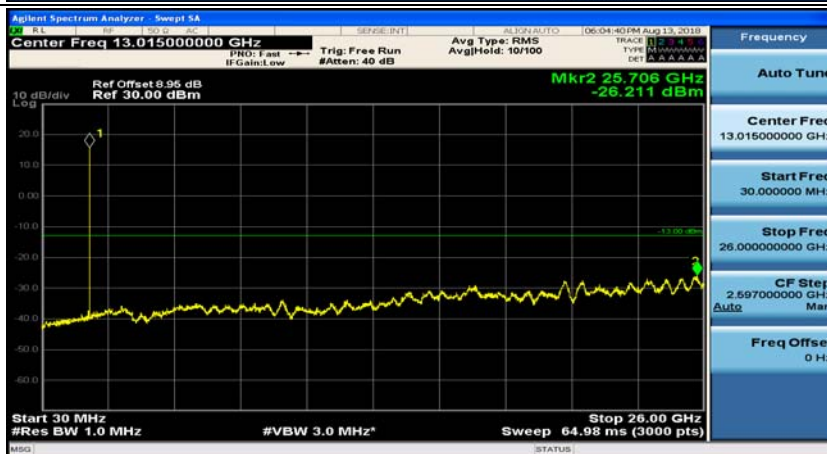
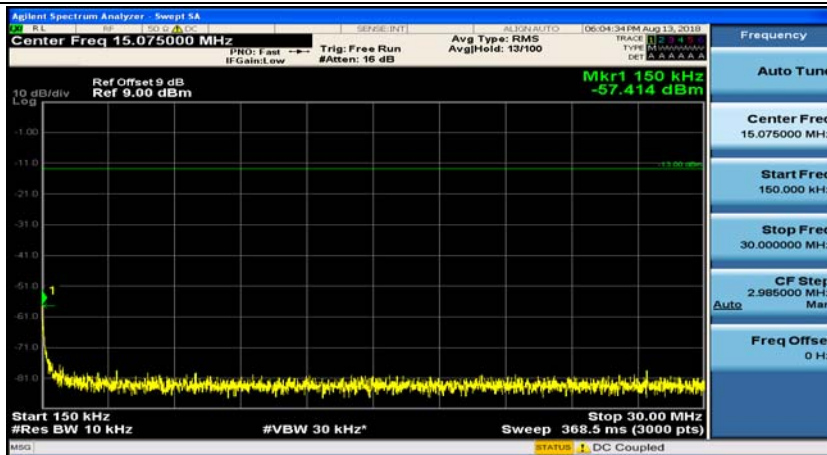
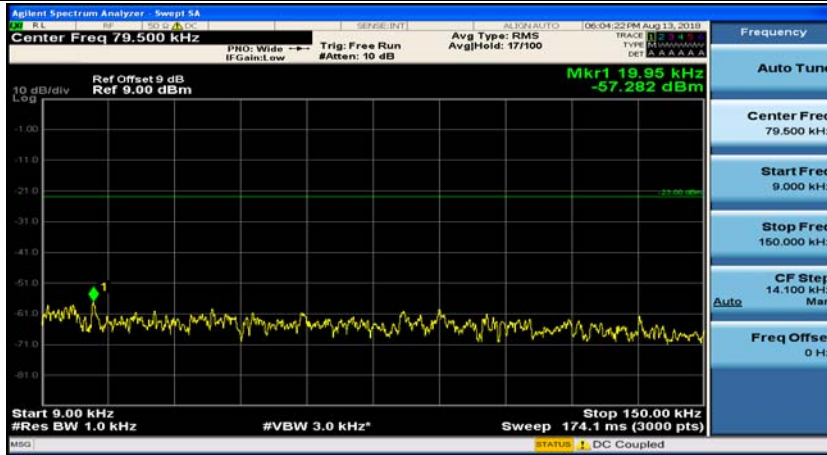


(Channel Bandwidth:20 MHz)_MCH_16QAM_1RB#49

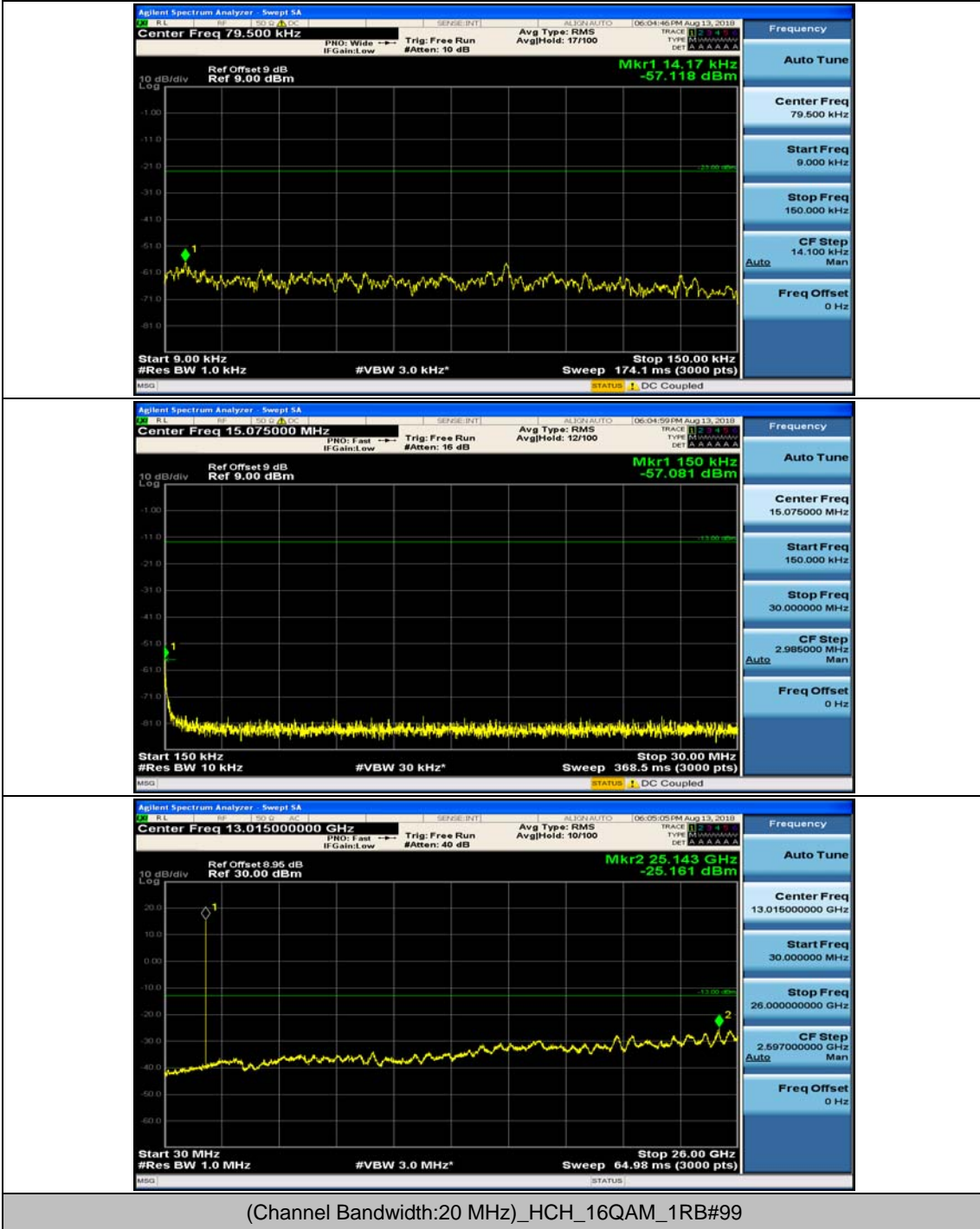


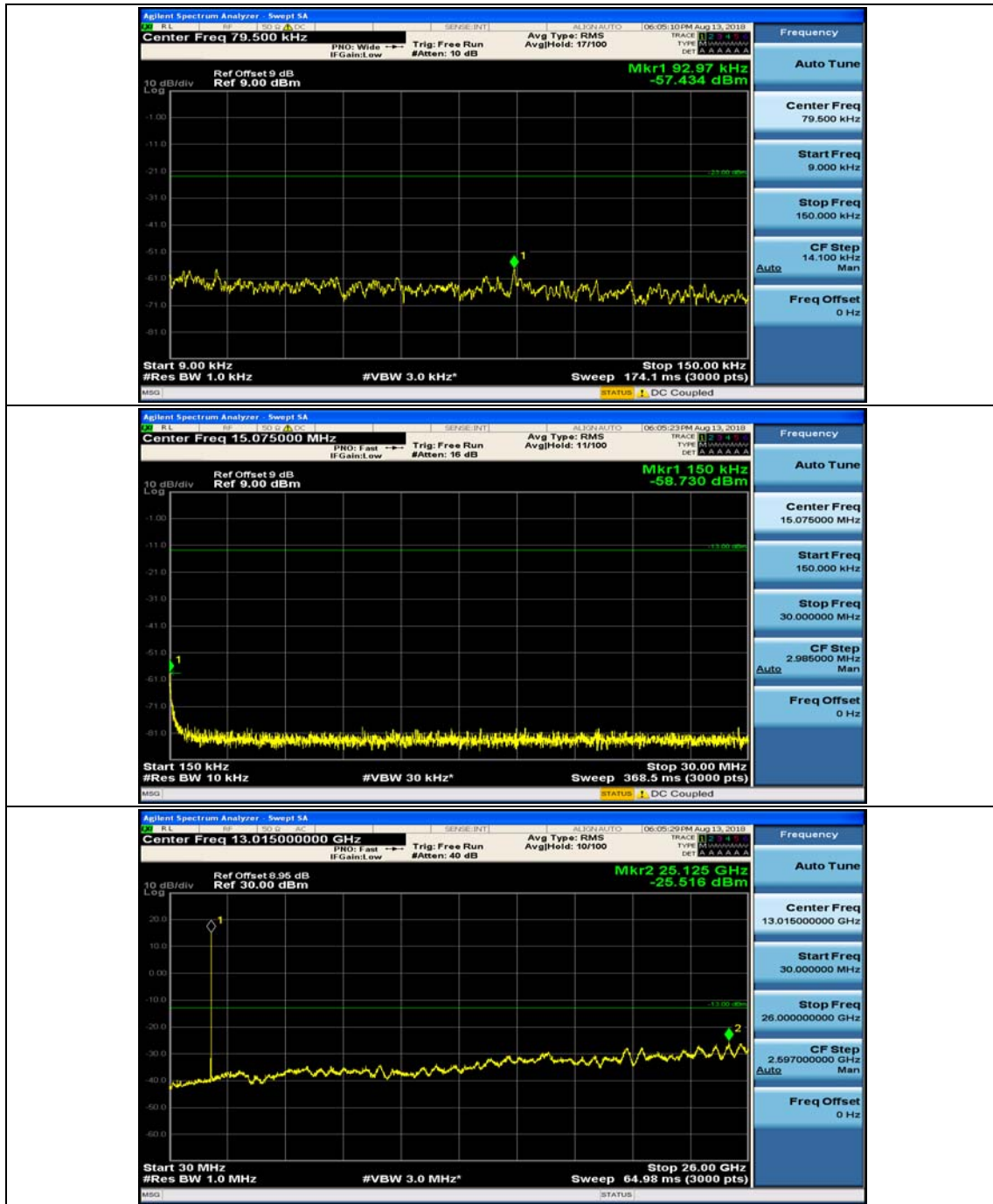


(Channel Bandwidth:20 MHz)_HCH_16QAM_1RB#0



(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	-1.29	-0.000697	± 2.5	PASS
		VN	TN	-1.16	-0.000627	± 2.5	PASS
		VH	TN	2.45	0.001324	± 2.5	PASS
	MCH	VL	TN	1.3	0.000691	± 2.5	PASS
		VN	TN	2.94	0.001564	± 2.5	PASS
		VH	TN	1.31	0.000697	± 2.5	PASS
	HCH	VL	TN	3.25	0.001702	± 2.5	PASS
		VN	TN	3.42	0.001791	± 2.5	PASS
		VH	TN	2.06	0.001079	± 2.5	PASS
16QAM	LCH	VL	TN	4.29	0.002318	± 2.5	PASS
		VN	TN	1.11	0.000600	± 2.5	PASS
		VH	TN	0.67	0.000362	± 2.5	PASS
	MCH	VL	TN	-0.22	-0.000117	± 2.5	PASS
		VN	TN	-1.25	-0.000665	± 2.5	PASS
		VH	TN	0.65	0.000346	± 2.5	PASS
	HCH	VL	TN	-0.55	-0.000288	± 2.5	PASS
		VN	TN	3.77	0.001975	± 2.5	PASS
		VH	TN	1.84	0.000964	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-0.05	-0.000027	± 2.5	PASS
		VN	-20	2.44	0.001318	± 2.5	PASS
		VN	-10	1.16	0.000627	± 2.5	PASS
		VN	0	3.76	0.002032	± 2.5	PASS
		VN	10	-0.24	-0.000130	± 2.5	PASS
		VN	20	-0.71	-0.000384	± 2.5	PASS
		VN	30	4.5	0.002432	± 2.5	PASS
		VN	40	1.84	0.000994	± 2.5	PASS
	MCH	VN	-30	4.4	0.002340	± 2.5	PASS
		VN	-20	2.59	0.001378	± 2.5	PASS

		VN	-10	-0.71	-0.000378	± 2.5	PASS		
		VN	0	1.76	0.000936	± 2.5	PASS		
		VN	10	0.52	0.000277	± 2.5	PASS		
		VN	20	1.69	0.000899	± 2.5	PASS		
		VN	30	1.01	0.000537	± 2.5	PASS		
		VN	40	4.45	0.002367	± 2.5	PASS		
		VN	50	0.47	0.000250	± 2.5	PASS		
	HCH	VN	-30	-0.37	-0.000194	± 2.5	PASS		
		VN	-20	2.29	0.001199	± 2.5	PASS		
		VN	-10	0.4	0.000210	± 2.5	PASS		
		VN	0	2.84	0.001487	± 2.5	PASS		
		VN	10	3.3	0.001728	± 2.5	PASS		
		VN	20	1.95	0.001021	± 2.5	PASS		
		VN	30	0.22	0.000115	± 2.5	PASS		
		VN	40	1.63	0.000854	± 2.5	PASS		
		VN	50	-1	-0.000524	± 2.5	PASS		
		16QAM	LCH	VN	-30	-1.27	-0.000686	± 2.5	PASS
				VN	-20	-1.93	-0.001043	± 2.5	PASS
VN	-10			1.66	0.000897	± 2.5	PASS		
VN	0			1.11	0.000600	± 2.5	PASS		
VN	10			0.95	0.000513	± 2.5	PASS		
VN	20			3.9	0.002107	± 2.5	PASS		
VN	30			1.49	0.000805	± 2.5	PASS		
VN	40			-1.03	-0.000557	± 2.5	PASS		
VN	50			3.27	0.001767	± 2.5	PASS		
MCH	VN		-30	4.49	0.002388	± 2.5	PASS		
	VN		-20	0.84	0.000447	± 2.5	PASS		
	VN		-10	0.15	0.000080	± 2.5	PASS		
	VN		0	4.11	0.002186	± 2.5	PASS		
	VN		10	1.92	0.001021	± 2.5	PASS		
	VN		20	-1.83	-0.000973	± 2.5	PASS		
	VN		30	4.11	0.002186	± 2.5	PASS		
	VN		40	4.6	0.002447	± 2.5	PASS		
	VN		50	-1.41	-0.000750	± 2.5	PASS		
HCH	VN		-30	2.51	0.001315	± 2.5	PASS		
	VN		-20	0.75	0.000393	± 2.5	PASS		
	VN		-10	4.61	0.002414	± 2.5	PASS		
	VN		0	-0.14	-0.000073	± 2.5	PASS		
	VN		10	2.92	0.001529	± 2.5	PASS		
	VN		20	3.81	0.001995	± 2.5	PASS		
	VN		30	0.58	0.000304	± 2.5	PASS		

		VN	40	0.4	0.000210	± 2.5	PASS
		VN	50	2.79	0.001461	± 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	-0.22	-0.000119	± 2.5	PASS
		VN	TN	3.04	0.001642	± 2.5	PASS
		VH	TN	0.96	0.000518	± 2.5	PASS
	MCH	VL	TN	1.97	0.001048	± 2.5	PASS
		VN	TN	-0.05	-0.000027	± 2.5	PASS
		VH	TN	0.27	0.000144	± 2.5	PASS
	HCH	VL	TN	2.3	0.001205	± 2.5	PASS
		VN	TN	3.9	0.002043	± 2.5	PASS
		VH	TN	-0.93	-0.000487	± 2.5	PASS
16QAM	LCH	VL	TN	3.77	0.002036	± 2.5	PASS
		VN	TN	3.43	0.001853	± 2.5	PASS
		VH	TN	1.6	0.000864	± 2.5	PASS
	MCH	VL	TN	1.18	0.000628	± 2.5	PASS
		VN	TN	4.28	0.002277	± 2.5	PASS
		VH	TN	2.23	0.001186	± 2.5	PASS
	HCH	VL	TN	-0.56	-0.000293	± 2.5	PASS
		VN	TN	4.15	0.002174	± 2.5	PASS
		VH	TN	4.59	0.002405	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	3.16	0.001707	± 2.5	PASS
		VN	-20	4.13	0.002231	± 2.5	PASS
		VN	-10	0.46	0.000248	± 2.5	PASS
		VN	0	4.72	0.002549	± 2.5	PASS
		VN	10	4.76	0.002571	± 2.5	PASS
		VN	20	3.03	0.001637	± 2.5	PASS
		VN	30	0.55	0.000297	± 2.5	PASS
		VN	40	-1.43	-0.000772	± 2.5	PASS
		VN	50	3.25	0.001755	± 2.5	PASS
	MCH	VN	-30	3.26	0.001734	± 2.5	PASS
		VN	-20	1.74	0.000926	± 2.5	PASS
		VN	-10	2.8	0.001489	± 2.5	PASS

	VN	0	3.31	0.001761	± 2.5	PASS			
		10	2.37	0.001261	± 2.5	PASS			
		20	-1.56	-0.000830	± 2.5	PASS			
		30	3.21	0.001707	± 2.5	PASS			
		40	-0.98	-0.000521	± 2.5	PASS			
		50	3	0.001596	± 2.5	PASS			
	HCH	VN	-30	2.04	0.001069	± 2.5	PASS		
		VN	-20	2.82	0.001478	± 2.5	PASS		
		VN	-10	4.11	0.002154	± 2.5	PASS		
		VN	0	1.56	0.000817	± 2.5	PASS		
		VN	10	-0.13	-0.000068	± 2.5	PASS		
		VN	20	3.19	0.001671	± 2.5	PASS		
		VN	30	0.16	0.000084	± 2.5	PASS		
		VN	40	4.01	0.002101	± 2.5	PASS		
		VN	50	2.26	0.001184	± 2.5	PASS		
		16QAM	LCH	VN	-30	2.41	0.001302	± 2.5	PASS
				VN	-20	3.29	0.001777	± 2.5	PASS
				VN	-10	-0.68	-0.000367	± 2.5	PASS
VN	0			1.5	0.000810	± 2.5	PASS		
VN	10			-1.6	-0.000864	± 2.5	PASS		
VN	20			2.03	0.001096	± 2.5	PASS		
VN	30			-1.66	-0.000897	± 2.5	PASS		
VN	40			4.97	0.002684	± 2.5	PASS		
VN	50			-0.97	-0.000524	± 2.5	PASS		
MCH	VN		-30	1.24	0.000660	± 2.5	PASS		
	VN		-20	2.43	0.001293	± 2.5	PASS		
	VN		-10	-1.75	-0.000931	± 2.5	PASS		
	VN		0	-1.2	-0.000638	± 2.5	PASS		
	VN		10	1.98	0.001053	± 2.5	PASS		
	VN		20	0	0.000000	± 2.5	PASS		
	VN		30	2.33	0.001239	± 2.5	PASS		
	VN		40	2.21	0.001176	± 2.5	PASS		
	VN		50	-0.47	-0.000250	± 2.5	PASS		
HCH	VN		-30	1.57	0.000823	± 2.5	PASS		
	VN		-20	4.99	0.002615	± 2.5	PASS		
	VN		-10	4.5	0.002358	± 2.5	PASS		
	VN		0	-0.38	-0.000199	± 2.5	PASS		
	VN		10	2.9	0.001520	± 2.5	PASS		
	VN		20	2.26	0.001184	± 2.5	PASS		
	VN		30	-0.82	-0.000430	± 2.5	PASS		
	VN		40	0.5	0.000262	± 2.5	PASS		

		VN	50	3.32	0.001740	± 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	4.15	0.002240	± 2.5	PASS
		VN	TN	1.18	0.000637	± 2.5	PASS
		VH	TN	2.69	0.001452	± 2.5	PASS
	MCH	VL	TN	3.56	0.001894	± 2.5	PASS
		VN	TN	3.27	0.001739	± 2.5	PASS
		VH	TN	-0.75	-0.000399	± 2.5	PASS
	HCH	VL	TN	2.23	0.001169	± 2.5	PASS
		VN	TN	1.2	0.000629	± 2.5	PASS
		VH	TN	-0.33	-0.000173	± 2.5	PASS
16QAM	LCH	VL	TN	-0.4	-0.000216	± 2.5	PASS
		VN	TN	-1.29	-0.000696	± 2.5	PASS
		VH	TN	3.37	0.001819	± 2.5	PASS
	MCH	VL	TN	2.85	0.001516	± 2.5	PASS
		VN	TN	1.78	0.000947	± 2.5	PASS
		VH	TN	3.67	0.001952	± 2.5	PASS
	HCH	VL	TN	2.06	0.001080	± 2.5	PASS
		VN	TN	4.34	0.002275	± 2.5	PASS
		VH	TN	2.71	0.001421	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	4.98	0.002688	± 2.5	PASS
		VN	-20	-0.55	-0.000297	± 2.5	PASS
		VN	-10	-0.43	-0.000232	± 2.5	PASS
		VN	0	-1.02	-0.000551	± 2.5	PASS
		VN	10	4.45	0.002402	± 2.5	PASS
		VN	20	0.69	0.000372	± 2.5	PASS
		VN	30	0.33	0.000178	± 2.5	PASS
		VN	40	2.61	0.001409	± 2.5	PASS
		VN	50	-0.19	-0.000103	± 2.5	PASS
	MCH	VN	-30	2.26	0.001202	± 2.5	PASS
		VN	-20	1.03	0.000548	± 2.5	PASS
		VN	-10	2.38	0.001266	± 2.5	PASS
		VN	0	0.34	0.000181	± 2.5	PASS

		VN	10	4.11	0.002186	± 2.5	PASS
		VN	20	-1.07	-0.000569	± 2.5	PASS
		VN	30	2.36	0.001255	± 2.5	PASS
		VN	40	0.2	0.000106	± 2.5	PASS
		VN	50	-1.05	-0.000559	± 2.5	PASS
	HCH	VN	-30	0.41	0.000215	± 2.5	PASS
		VN	-20	2.24	0.001174	± 2.5	PASS
		VN	-10	1.68	0.000881	± 2.5	PASS
		VN	0	-0.23	-0.000121	± 2.5	PASS
		VN	10	4.76	0.002495	± 2.5	PASS
		VN	20	-0.45	-0.000236	± 2.5	PASS
		VN	30	-1.56	-0.000818	± 2.5	PASS
		VN	40	1.21	0.000634	± 2.5	PASS
		VN	50	-1.98	-0.001038	± 2.5	PASS
		16QAM	LCH	VN	-30	1.42	0.000767
VN	-20			3.04	0.001641	± 2.5	PASS
VN	-10			4.74	0.002559	± 2.5	PASS
VN	0			-1.47	-0.000794	± 2.5	PASS
VN	10			-1.25	-0.000675	± 2.5	PASS
VN	20			-0.23	-0.000124	± 2.5	PASS
VN	30			0.23	0.000124	± 2.5	PASS
VN	40			-0.19	-0.000103	± 2.5	PASS
VN	50			4.4	0.002375	± 2.5	PASS
MCH	VN		-30	0.71	0.000378	± 2.5	PASS
	VN		-20	1.43	0.000761	± 2.5	PASS
	VN		-10	4.21	0.002239	± 2.5	PASS
	VN		0	0.69	0.000367	± 2.5	PASS
	VN		10	-1.1	-0.000585	± 2.5	PASS
	VN		20	0.24	0.000128	± 2.5	PASS
	VN		30	2.09	0.001112	± 2.5	PASS
	VN		40	4.19	0.002229	± 2.5	PASS
	VN		50	2.13	0.001133	± 2.5	PASS
HCH	VN		-30	0.47	0.000246	± 2.5	PASS
	VN		-20	1.35	0.000708	± 2.5	PASS
	VN		-10	-0.26	-0.000136	± 2.5	PASS
	VN		0	3.97	0.002081	± 2.5	PASS
	VN		10	0.86	0.000451	± 2.5	PASS
	VN		20	0.64	0.000336	± 2.5	PASS
	VN		30	4.84	0.002537	± 2.5	PASS
	VN		40	-1.8	-0.000944	± 2.5	PASS
	VN		50	3.1	0.001625	± 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	2.95	0.001590	± 2.5	PASS
		VN	TN	-1.42	-0.000765	± 2.5	PASS
		VH	TN	2.09	0.001127	± 2.5	PASS
	MCH	VL	TN	-0.09	-0.000048	± 2.5	PASS
		VN	TN	2.01	0.001069	± 2.5	PASS
		VH	TN	0.79	0.000420	± 2.5	PASS
	HCH	VL	TN	0.81	0.000425	± 2.5	PASS
		VN	TN	1.69	0.000887	± 2.5	PASS
		VH	TN	1.97	0.001034	± 2.5	PASS
16QAM	LCH	VL	TN	0.09	0.000049	± 2.5	PASS
		VN	TN	0.16	0.000086	± 2.5	PASS
		VH	TN	3.49	0.001881	± 2.5	PASS
	MCH	VL	TN	-1.12	-0.000596	± 2.5	PASS
		VN	TN	1.38	0.000734	± 2.5	PASS
		VH	TN	4.46	0.002372	± 2.5	PASS
	HCH	VL	TN	0.46	0.000241	± 2.5	PASS
		VN	TN	1.01	0.000530	± 2.5	PASS
		VH	TN	3.14	0.001648	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
16QAM	LCH	VN	-30	-0.67	-0.000361	± 2.5	PASS
		VN	-20	3.34	0.001801	± 2.5	PASS
		VN	-10	-1.39	-0.000749	± 2.5	PASS
		VN	0	-1.06	-0.000571	± 2.5	PASS
		VN	10	-0.39	-0.000210	± 2.5	PASS
		VN	20	0.8	0.000431	± 2.5	PASS
		VN	30	-1.03	-0.000555	± 2.5	PASS
		VN	40	4.02	0.002167	± 2.5	PASS
		VN	50	-0.94	-0.000507	± 2.5	PASS
	MCH	VN	-30	-1.85	-0.000984	± 2.5	PASS
		VN	-20	4.49	0.002388	± 2.5	PASS
		VN	-10	2.66	0.001415	± 2.5	PASS
		VN	0	4.61	0.002452	± 2.5	PASS
		VN	10	-1.99	-0.001059	± 2.5	PASS
		VN	20	4.65	0.002473	± 2.5	PASS

		VN	30	3.47	0.001846	± 2.5	PASS
		VN	40	4.79	0.002548	± 2.5	PASS
		VN	50	0.23	0.000122	± 2.5	PASS
	HCH	VN	-30	-0.92	-0.000483	± 2.5	PASS
		VN	-20	2.45	0.001286	± 2.5	PASS
		VN	-10	1.59	0.000835	± 2.5	PASS
		VN	0	4.1	0.002152	± 2.5	PASS
		VN	10	3.48	0.001827	± 2.5	PASS
		VN	20	-1.69	-0.000887	± 2.5	PASS
		VN	30	-0.97	-0.000509	± 2.5	PASS
		VN	40	-1.9	-0.000997	± 2.5	PASS
		VN	50	-0.2	-0.000105	± 2.5	PASS
QPSK	LCH	VN	-30	-0.72	-0.000388	± 2.5	PASS
		VN	-20	0.49	0.000264	± 2.5	PASS
		VN	-10	0.72	0.000388	± 2.5	PASS
		VN	0	-1	-0.000539	± 2.5	PASS
		VN	10	-1.62	-0.000873	± 2.5	PASS
		VN	20	3.05	0.001644	± 2.5	PASS
		VN	30	0.12	0.000065	± 2.5	PASS
		VN	40	-0.27	-0.000146	± 2.5	PASS
		VN	50	2.88	0.001553	± 2.5	PASS
	MCH	VN	-30	-1.35	-0.000718	± 2.5	PASS
		VN	-20	4.66	0.002479	± 2.5	PASS
		VN	-10	0.77	0.000410	± 2.5	PASS
		VN	0	-0.48	-0.000255	± 2.5	PASS
		VN	10	-1.81	-0.000963	± 2.5	PASS
		VN	20	-1.56	-0.000830	± 2.5	PASS
		VN	30	3.02	0.001606	± 2.5	PASS
		VN	40	-0.18	-0.000096	± 2.5	PASS
		VN	50	0.02	0.000011	± 2.5	PASS
	HCH	VN	-30	1.88	0.000987	± 2.5	PASS
		VN	-20	2.03	0.001066	± 2.5	PASS
		VN	-10	2.55	0.001339	± 2.5	PASS
		VN	0	-1.2	-0.000630	± 2.5	PASS
		VN	10	-0.45	-0.000236	± 2.5	PASS
		VN	20	2.93	0.001538	± 2.5	PASS
		VN	30	1.68	0.000882	± 2.5	PASS
		VN	40	-0.73	-0.000383	± 2.5	PASS
		VN	50	-0.88	-0.000462	± 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	3.29	0.001771	± 2.5	PASS
		VN	TN	-1.06	-0.000571	± 2.5	PASS
		VH	TN	3.46	0.001863	± 2.5	PASS
	MCH	VL	TN	1.66	0.000883	± 2.5	PASS
		VN	TN	2.67	0.001420	± 2.5	PASS
		VH	TN	3.04	0.001617	± 2.5	PASS
	HCH	VL	TN	0.89	0.000468	± 2.5	PASS
		VN	TN	0.12	0.000063	± 2.5	PASS
		VH	TN	3.21	0.001687	± 2.5	PASS
16QAM	LCH	VL	TN	4.34	0.002336	± 2.5	PASS
		VN	TN	3.42	0.001841	± 2.5	PASS
		VH	TN	3.03	0.001631	± 2.5	PASS
	MCH	VL	TN	0.62	0.000330	± 2.5	PASS
		VN	TN	-1.24	-0.000660	± 2.5	PASS
		VH	TN	0.63	0.000335	± 2.5	PASS
	HCH	VL	TN	0.6	0.000315	± 2.5	PASS
		VN	TN	-0.6	-0.000315	± 2.5	PASS
		VH	TN	0.87	0.000457	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	0.17	0.000092	± 2.5	PASS
		VN	-20	-1.84	-0.000991	± 2.5	PASS
		VN	-10	3.95	0.002127	± 2.5	PASS
		VN	0	4.47	0.002406	± 2.5	PASS
		VN	10	1.99	0.001071	± 2.5	PASS
		VN	20	-0.35	-0.000188	± 2.5	PASS
		VN	30	-0.15	-0.000081	± 2.5	PASS
		VN	40	4.35	0.002342	± 2.5	PASS
		VN	50	3.5	0.001884	± 2.5	PASS
	MCH	VN	-30	0.65	0.000346	± 2.5	PASS
		VN	-20	4.01	0.002133	± 2.5	PASS
		VN	-10	-1.17	-0.000622	± 2.5	PASS
		VN	0	2.14	0.001138	± 2.5	PASS
		VN	10	-0.55	-0.000293	± 2.5	PASS
		VN	20	1.91	0.001016	± 2.5	PASS

		VN	30	0.08	0.000043	± 2.5	PASS
		VN	40	1.29	0.000686	± 2.5	PASS
		VN	50	0.61	0.000324	± 2.5	PASS
	HCH	VN	-30	2.7	0.001419	± 2.5	PASS
		VN	-20	-0.02	-0.000011	± 2.5	PASS
		VN	-10	-0.73	-0.000384	± 2.5	PASS
		VN	0	2.79	0.001466	± 2.5	PASS
		VN	10	-0.68	-0.000357	± 2.5	PASS
		VN	20	0.11	0.000058	± 2.5	PASS
		VN	30	2.72	0.001430	± 2.5	PASS
		VN	40	2.45	0.001288	± 2.5	PASS
		VN	50	4.66	0.002449	± 2.5	PASS
16QAM	LCH	VN	-30	0.08	0.000043	± 2.5	PASS
		VN	-20	3.25	0.001750	± 2.5	PASS
		VN	-10	-1.87	-0.001007	± 2.5	PASS
		VN	0	2.53	0.001362	± 2.5	PASS
		VN	10	0.69	0.000371	± 2.5	PASS
		VN	20	1.25	0.000673	± 2.5	PASS
		VN	30	-0.26	-0.000140	± 2.5	PASS
		VN	40	4.1	0.002207	± 2.5	PASS
		VN	50	4.1	0.002207	± 2.5	PASS
	MCH	VN	-30	0.97	0.000516	± 2.5	PASS
		VN	-20	-0.45	-0.000239	± 2.5	PASS
		VN	-10	0.46	0.000245	± 2.5	PASS
		VN	0	3.88	0.002064	± 2.5	PASS
		VN	10	4.41	0.002346	± 2.5	PASS
		VN	20	1.31	0.000697	± 2.5	PASS
		VN	30	4.28	0.002277	± 2.5	PASS
		VN	40	-1.01	-0.000537	± 2.5	PASS
		VN	50	1.08	0.000574	± 2.5	PASS
	HCH	VN	-30	0.75	0.000394	± 2.5	PASS
		VN	-20	-0.35	-0.000184	± 2.5	PASS
		VN	-10	2.67	0.001403	± 2.5	PASS
		VN	0	1.58	0.000830	± 2.5	PASS
		VN	10	-0.85	-0.000447	± 2.5	PASS
		VN	20	-0.49	-0.000258	± 2.5	PASS
VN		30	3.51	0.001845	± 2.5	PASS	
VN		40	-1.16	-0.000610	± 2.5	PASS	
VN		50	1.61	0.000846	± 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	-1.75	-0.000941	± 2.5	PASS
		VN	TN	-0.67	-0.000360	± 2.5	PASS
		VH	TN	0.48	0.000258	± 2.5	PASS
	MCH	VL	TN	1.77	0.000941	± 2.5	PASS
		VN	TN	3.04	0.001617	± 2.5	PASS
		VH	TN	2.12	0.001128	± 2.5	PASS
	HCH	VL	TN	4.14	0.002179	± 2.5	PASS
		VN	TN	1.48	0.000779	± 2.5	PASS
		VH	TN	3.57	0.001879	± 2.5	PASS
16QAM	LCH	VL	TN	1.75	0.000941	± 2.5	PASS
		VN	TN	-1.24	-0.000667	± 2.5	PASS
		VH	TN	1.76	0.000946	± 2.5	PASS
	MCH	VL	TN	1.81	0.000963	± 2.5	PASS
		VN	TN	1.03	0.000548	± 2.5	PASS
		VH	TN	0.57	0.000303	± 2.5	PASS
	HCH	VL	TN	2.96	0.001558	± 2.5	PASS
		VN	TN	3.86	0.002032	± 2.5	PASS
		VH	TN	-1.24	-0.000653	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	3.84	0.002065	± 2.5	PASS
		VN	-20	1.3	0.000699	± 2.5	PASS
		VN	-10	4.91	0.002640	± 2.5	PASS
		VN	0	1.01	0.000543	± 2.5	PASS
		VN	10	4.44	0.002387	± 2.5	PASS
		VN	20	1.97	0.001059	± 2.5	PASS
		VN	30	3.05	0.001640	± 2.5	PASS
		VN	40	-1.03	-0.000554	± 2.5	PASS
		VN	50	1.46	0.000785	± 2.5	PASS
	MCH	VN	-30	-0.13	-0.000069	± 2.5	PASS
		VN	-20	-0.94	-0.000500	± 2.5	PASS
		VN	-10	0.91	0.000484	± 2.5	PASS
		VN	0	4.94	0.002628	± 2.5	PASS
		VN	10	4.54	0.002415	± 2.5	PASS
		VN	20	3.35	0.001782	± 2.5	PASS

	VN	30	-1.55	-0.000824	± 2.5	PASS	
		40	0.49	0.000261	± 2.5	PASS	
		50	-1.6	-0.000851	± 2.5	PASS	
	HCH	VN	-30	0.46	0.000242	± 2.5	PASS
		VN	-20	3.08	0.001621	± 2.5	PASS
		VN	-10	2.16	0.001137	± 2.5	PASS
		VN	0	-1.29	-0.000679	± 2.5	PASS
		VN	10	-1.88	-0.000989	± 2.5	PASS
		VN	20	-1.97	-0.001037	± 2.5	PASS
		VN	30	3.65	0.001921	± 2.5	PASS
		VN	40	-1.46	-0.000768	± 2.5	PASS
		VN	50	-0.28	-0.000147	± 2.5	PASS
16QAM	LCH	VN	-30	3.81	0.002048	± 2.5	PASS
		VN	-20	0.89	0.000478	± 2.5	PASS
		VN	-10	0.99	0.000532	± 2.5	PASS
		VN	0	1.73	0.000930	± 2.5	PASS
		VN	10	4.26	0.002290	± 2.5	PASS
		VN	20	1.49	0.000801	± 2.5	PASS
		VN	30	4.38	0.002355	± 2.5	PASS
		VN	40	-0.05	-0.000027	± 2.5	PASS
		VN	50	-0.71	-0.000382	± 2.5	PASS
	MCH	VN	-30	-1.39	-0.000739	± 2.5	PASS
		VN	-20	2.47	0.001314	± 2.5	PASS
		VN	-10	-0.02	-0.000011	± 2.5	PASS
		VN	0	2.71	0.001441	± 2.5	PASS
		VN	10	-0.14	-0.000074	± 2.5	PASS
		VN	20	1.76	0.000936	± 2.5	PASS
		VN	30	0.89	0.000473	± 2.5	PASS
		VN	40	3.17	0.001686	± 2.5	PASS
		VN	50	-0.95	-0.000505	± 2.5	PASS
	HCH	VN	-30	4.93	0.002595	± 2.5	PASS
		VN	-20	2.59	0.001363	± 2.5	PASS
		VN	-10	1.88	0.000989	± 2.5	PASS
		VN	0	2.96	0.001558	± 2.5	PASS
		VN	10	4.44	0.002337	± 2.5	PASS
		VN	20	4.07	0.002142	± 2.5	PASS
		VN	30	3.51	0.001847	± 2.5	PASS
		VN	40	4.54	0.002389	± 2.5	PASS
		VN	50	4.03	0.002121	± 2.5	PASS