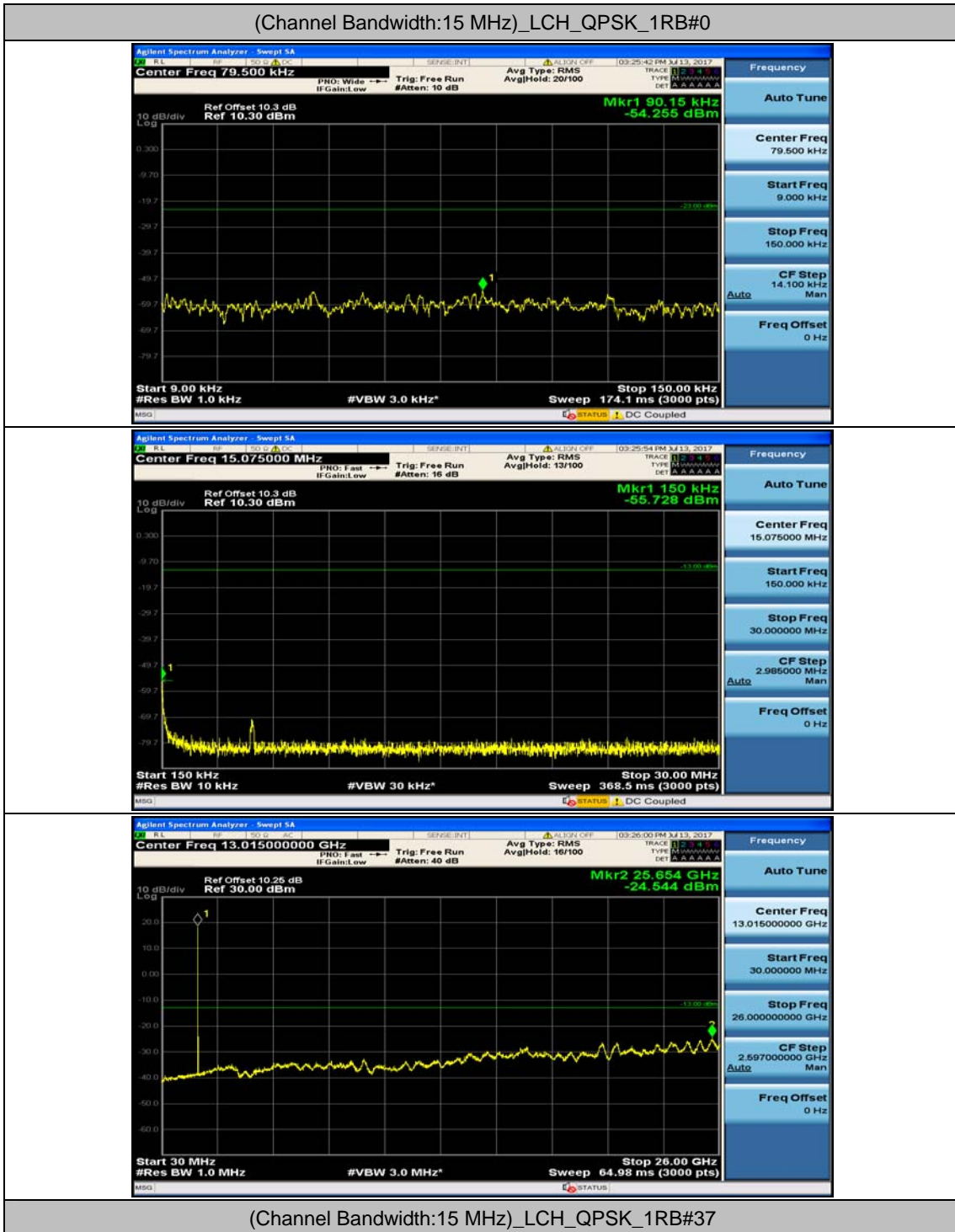
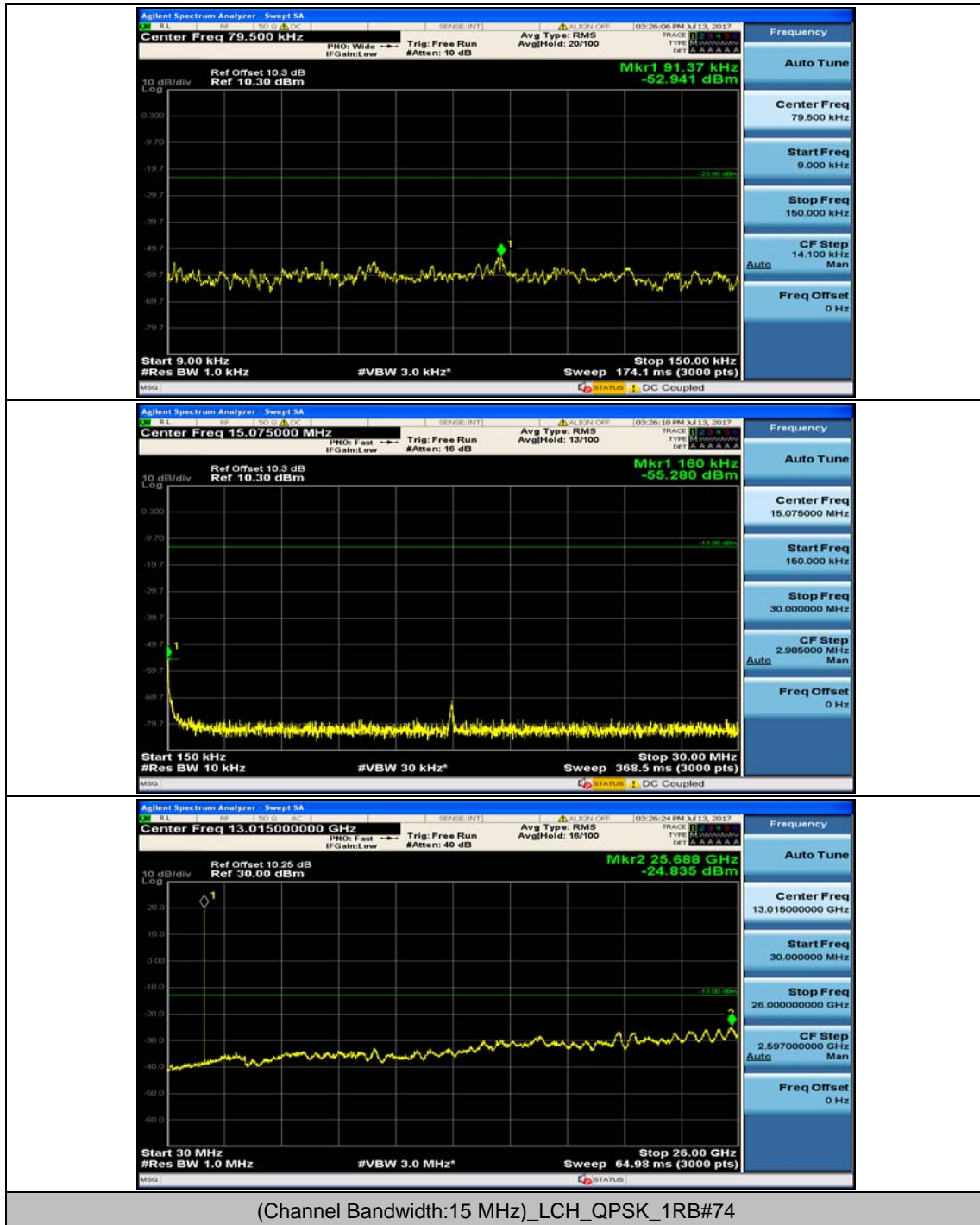
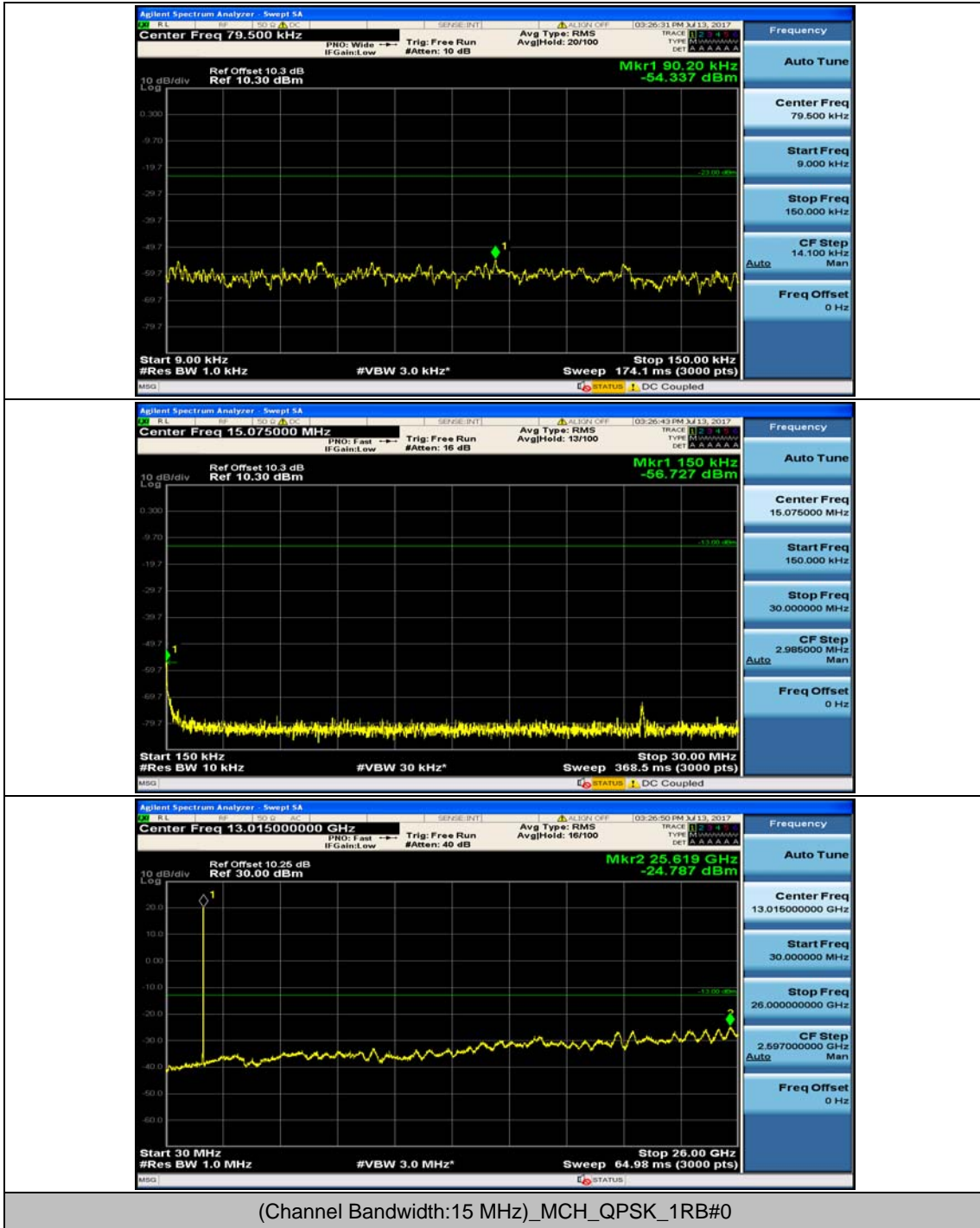
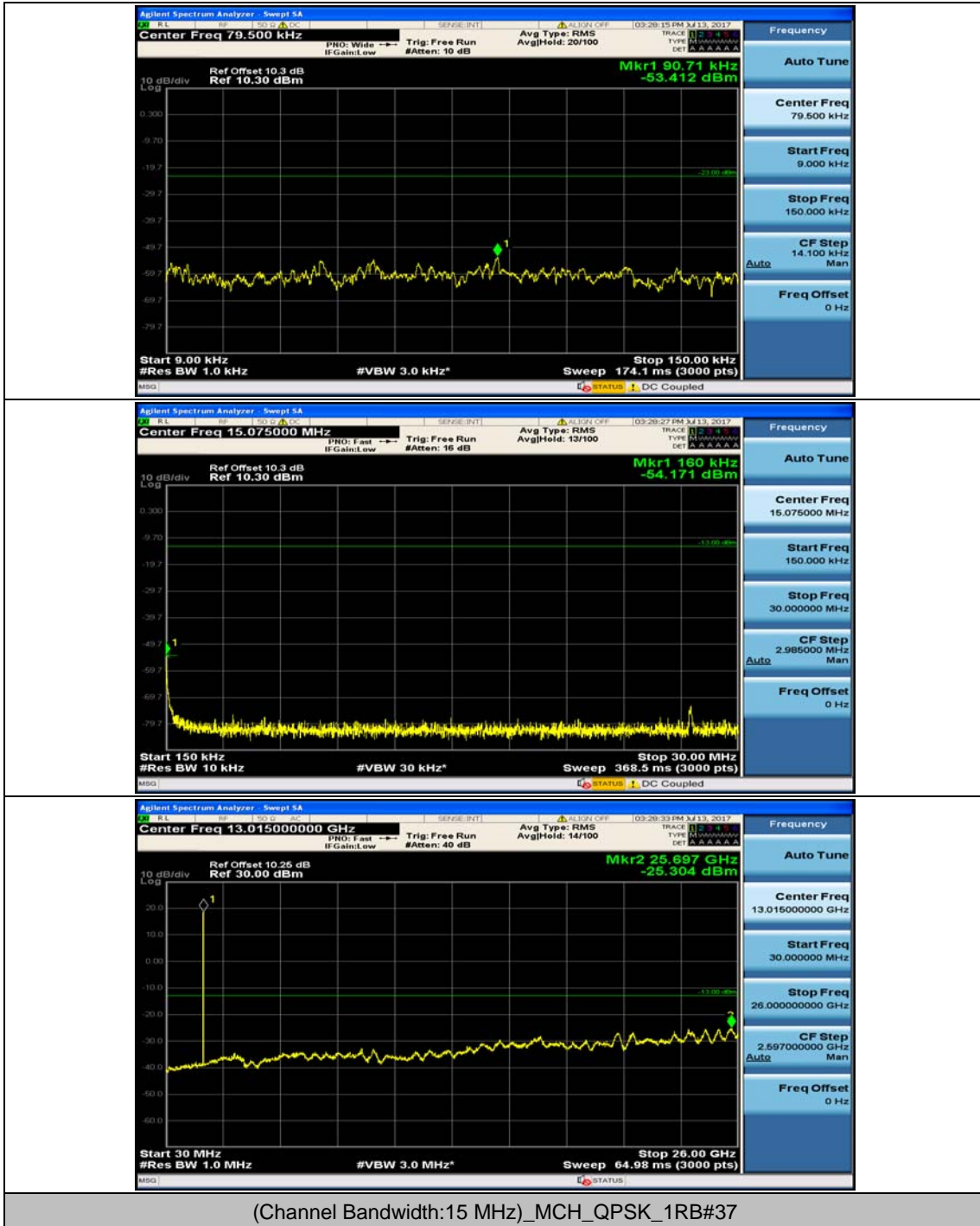


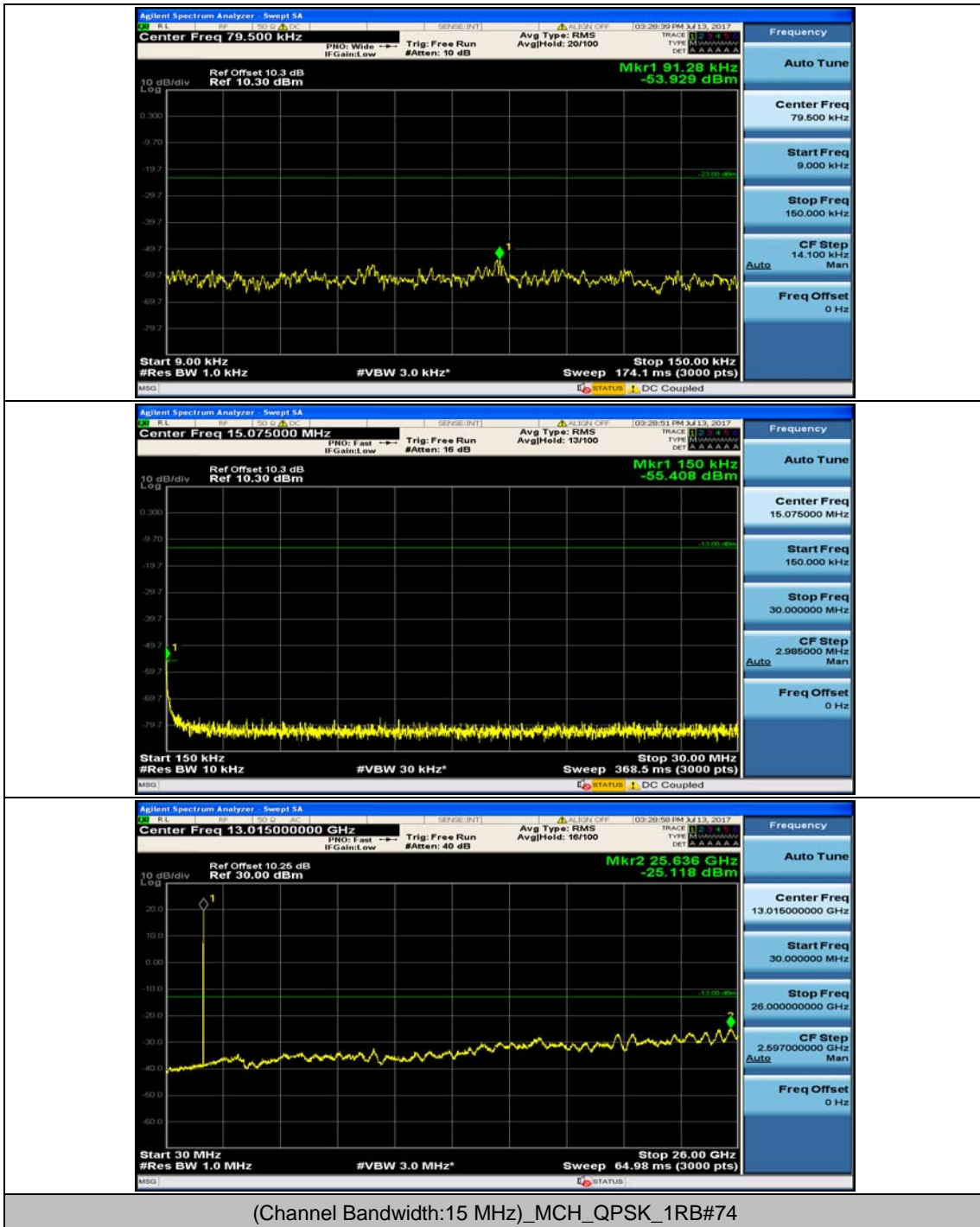
### Channel Bandwidth: 15 MHz

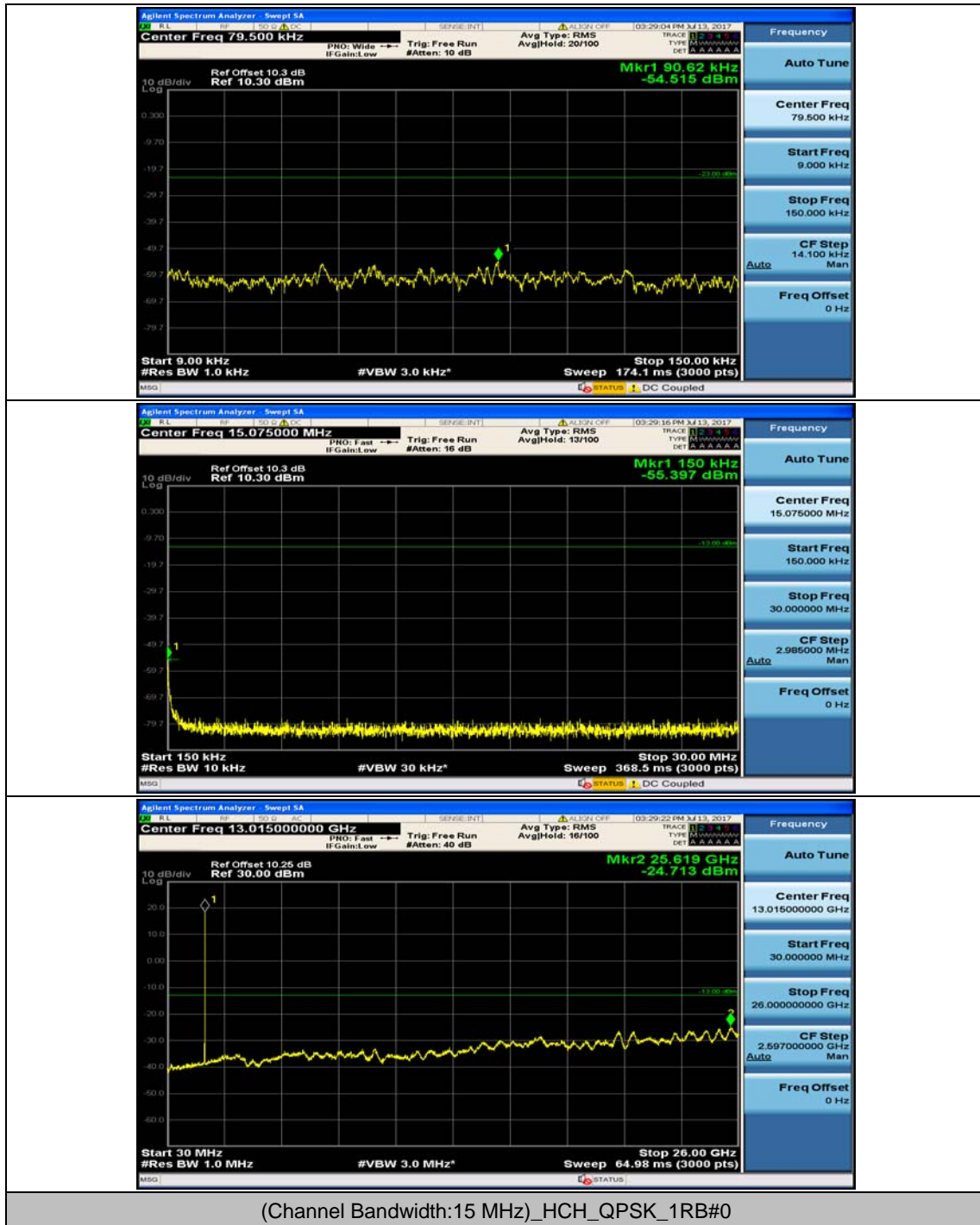




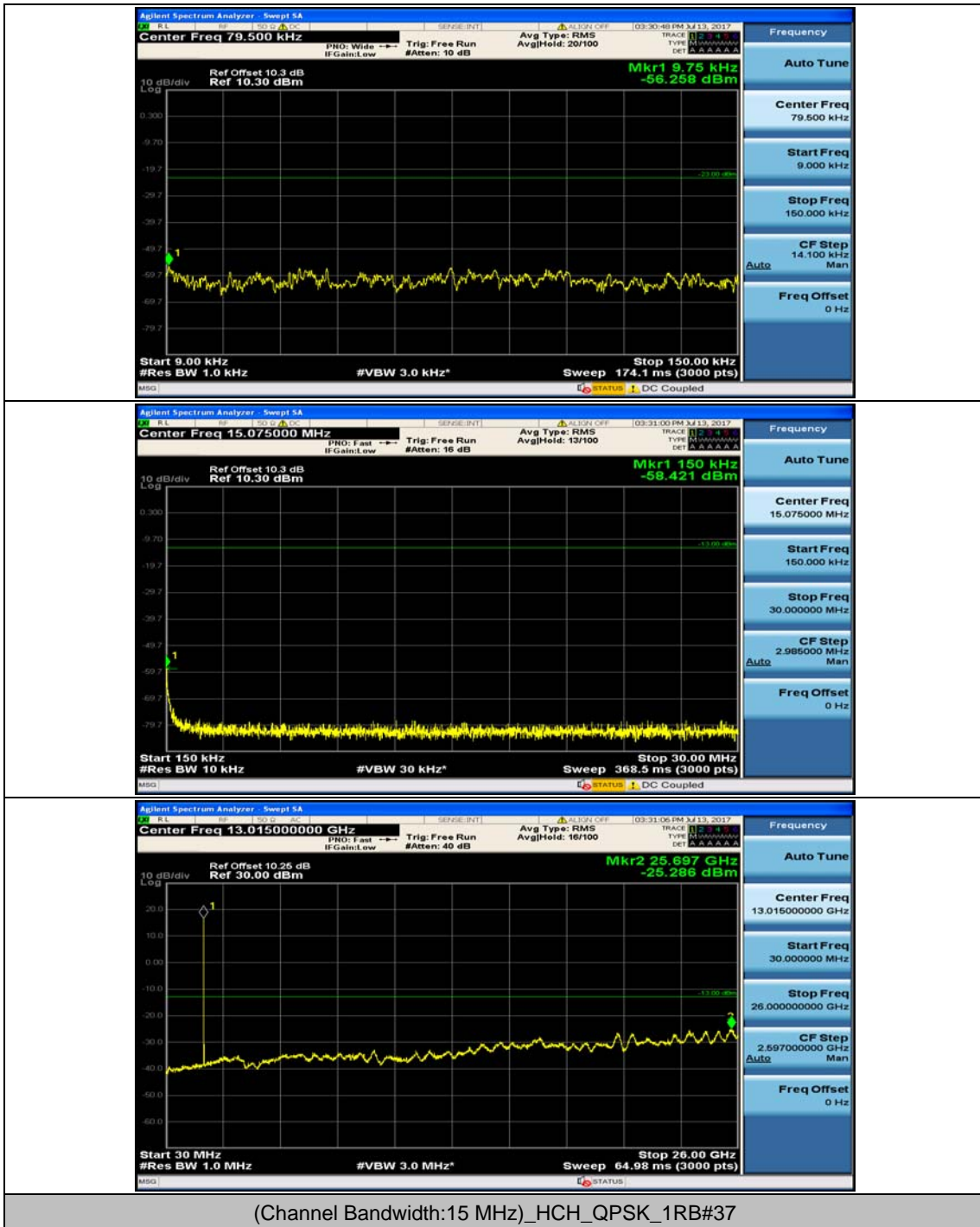


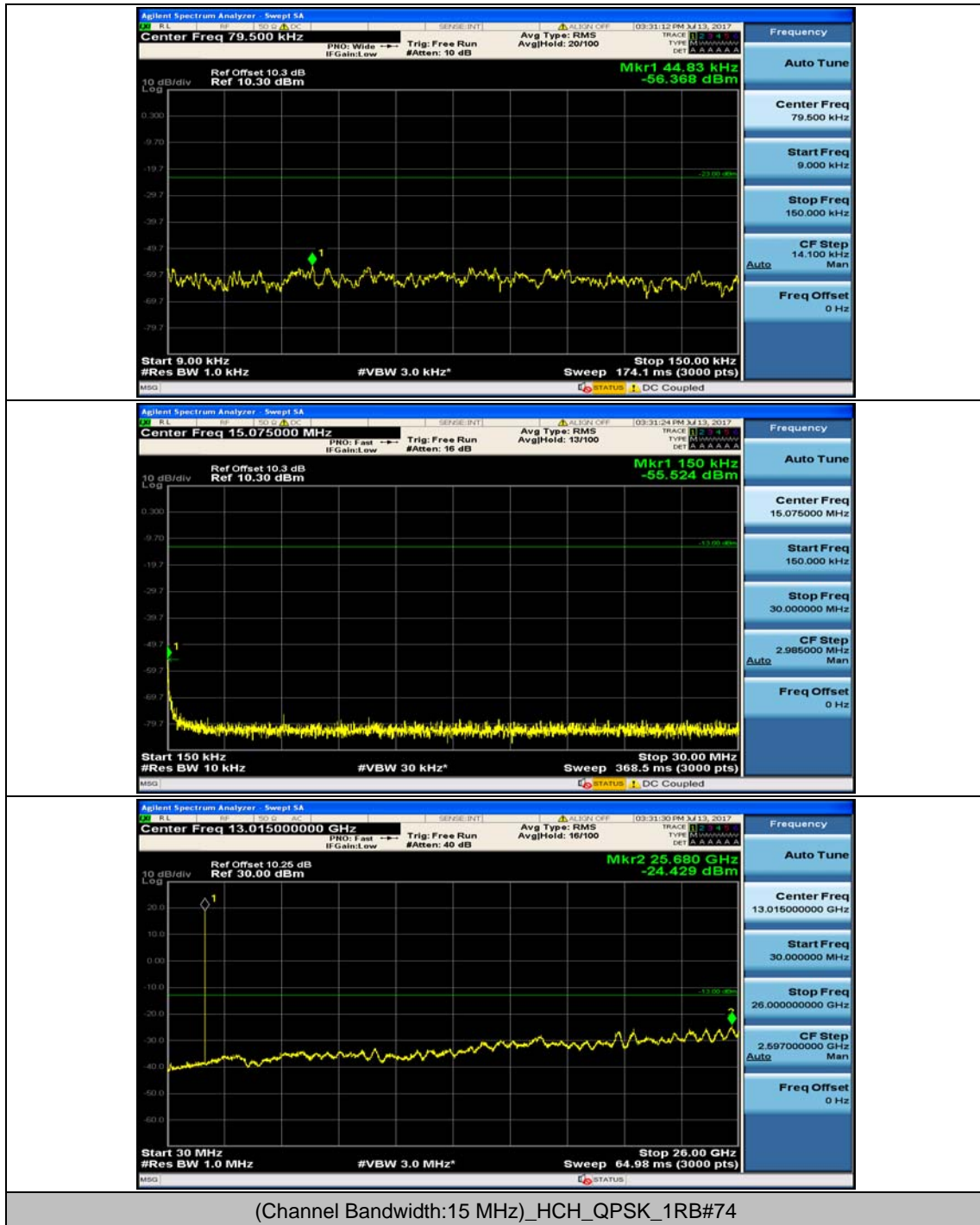


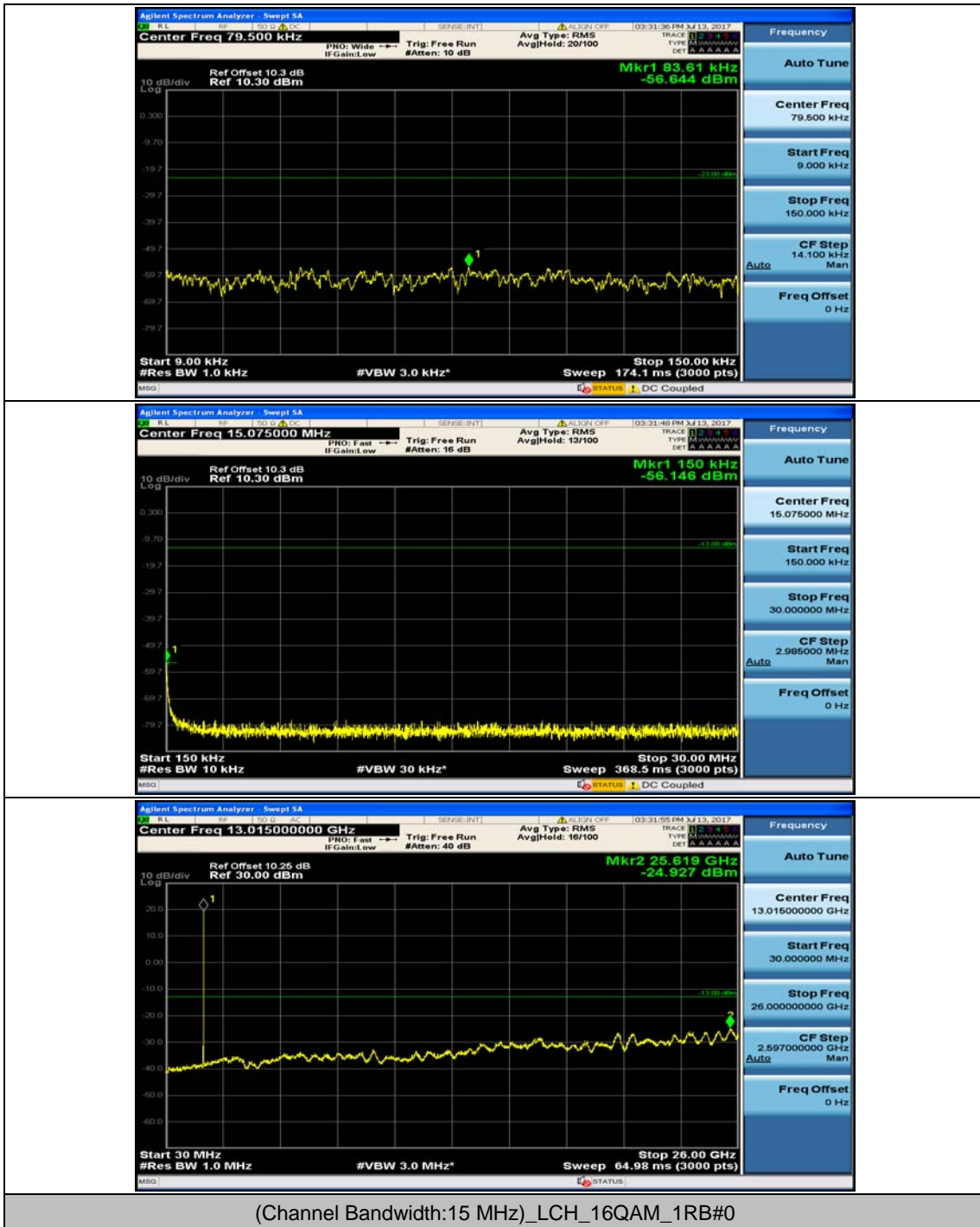


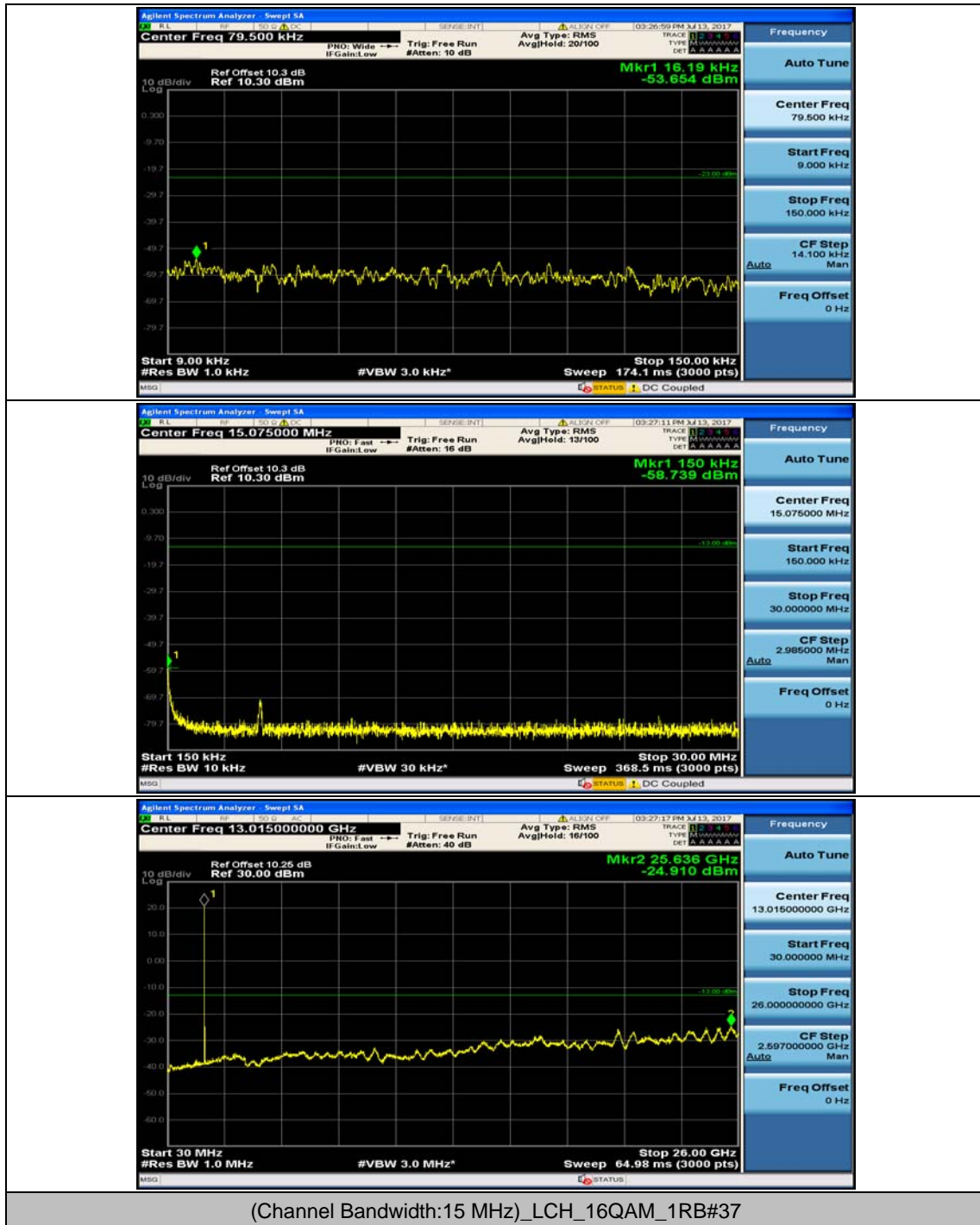


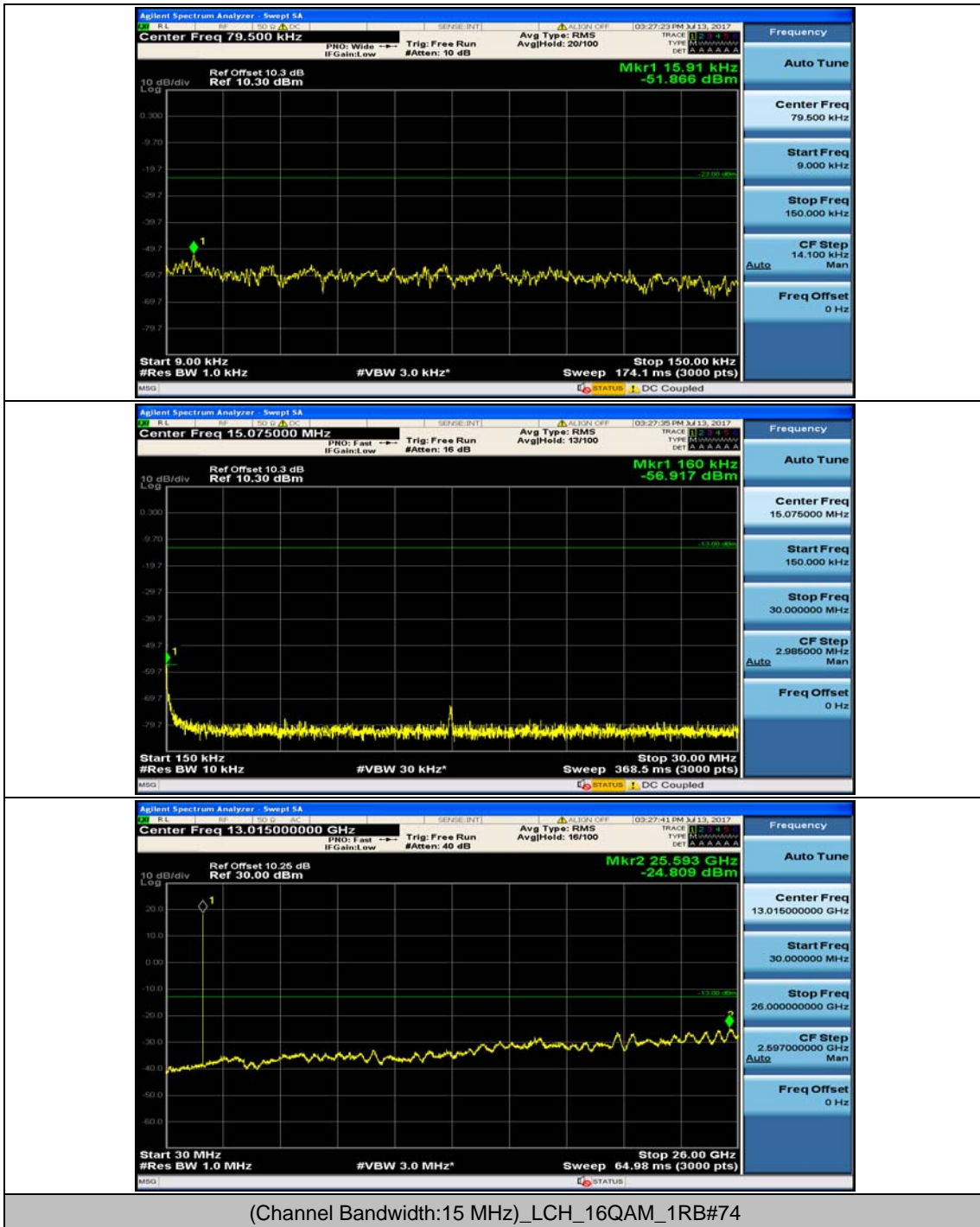


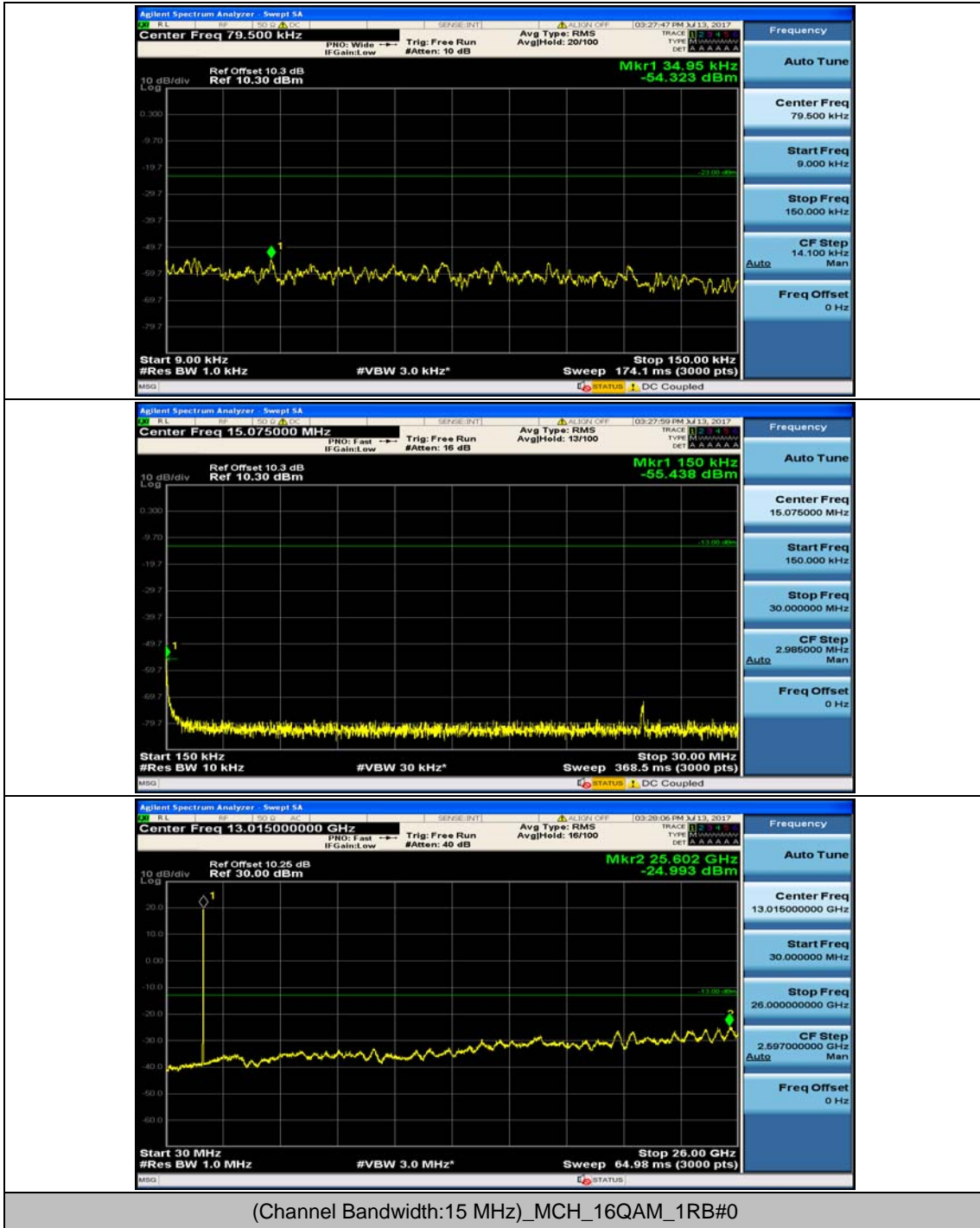


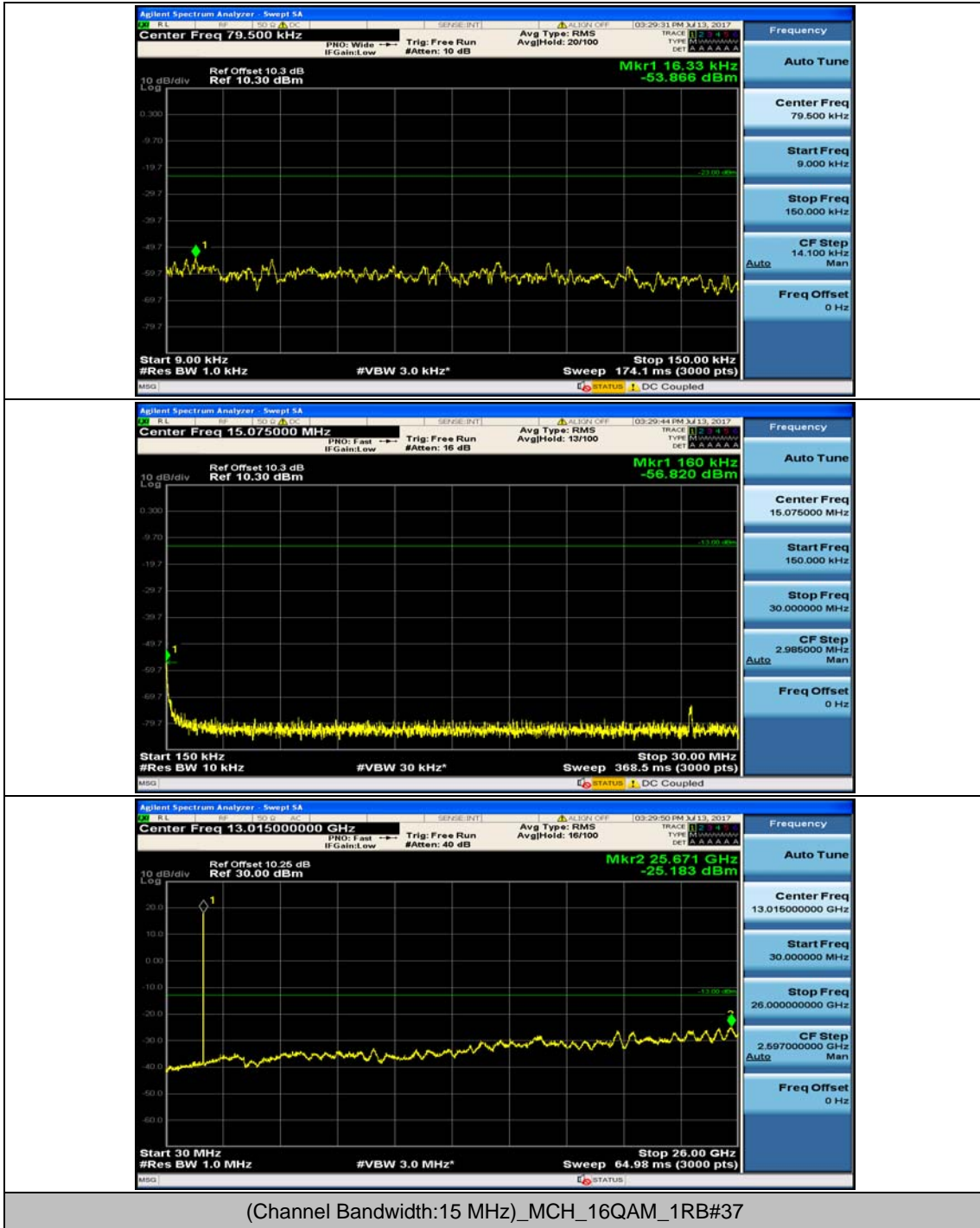


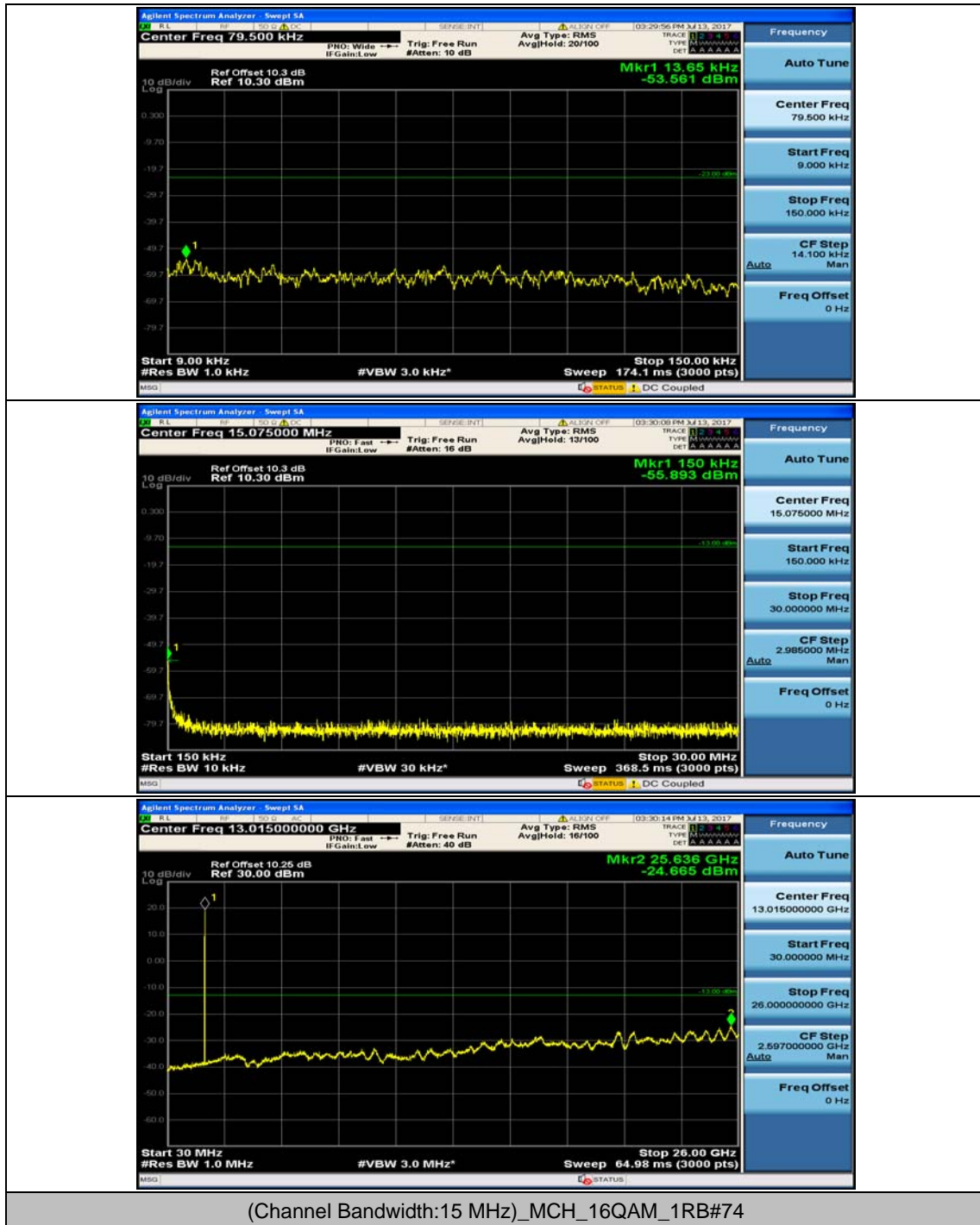




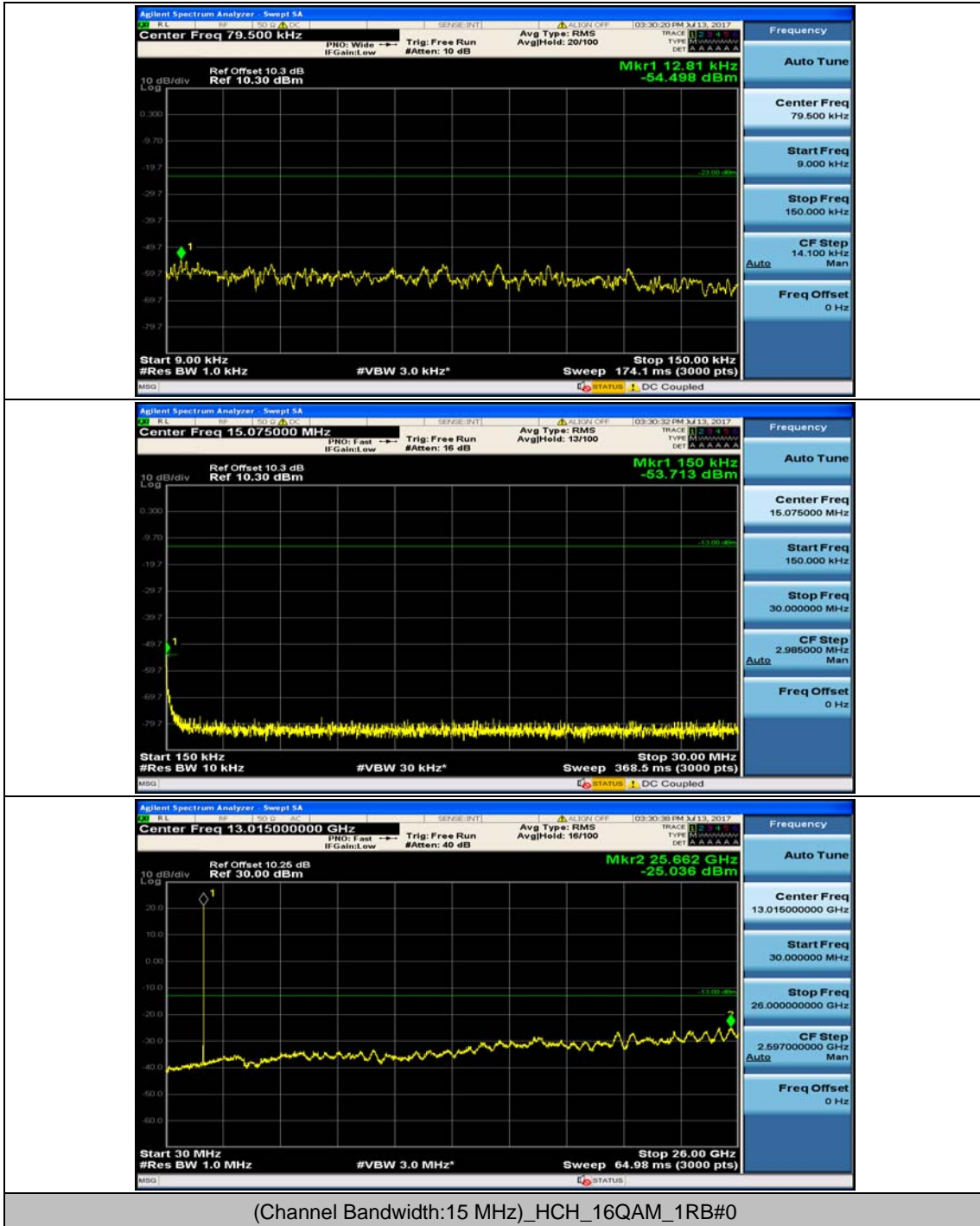


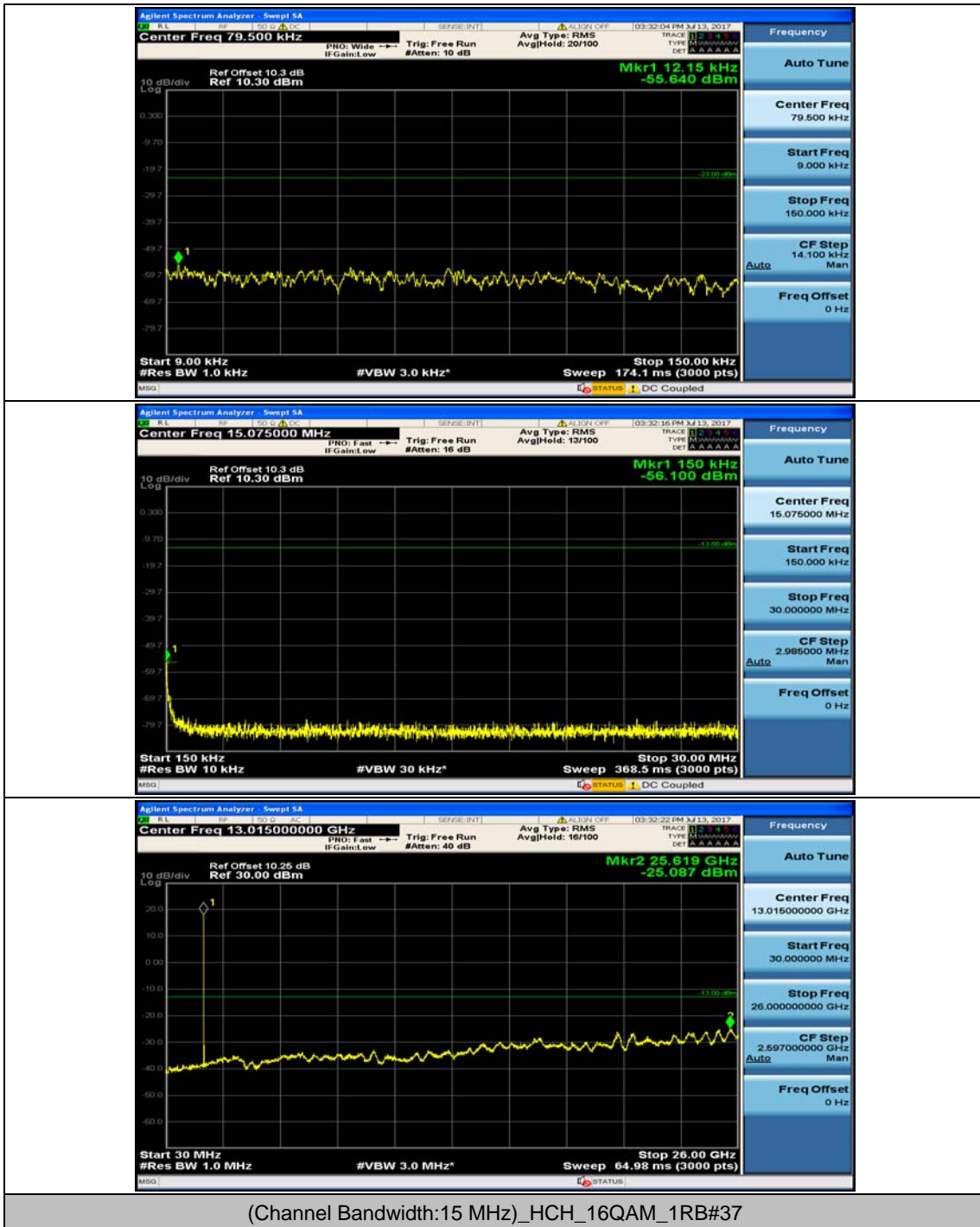


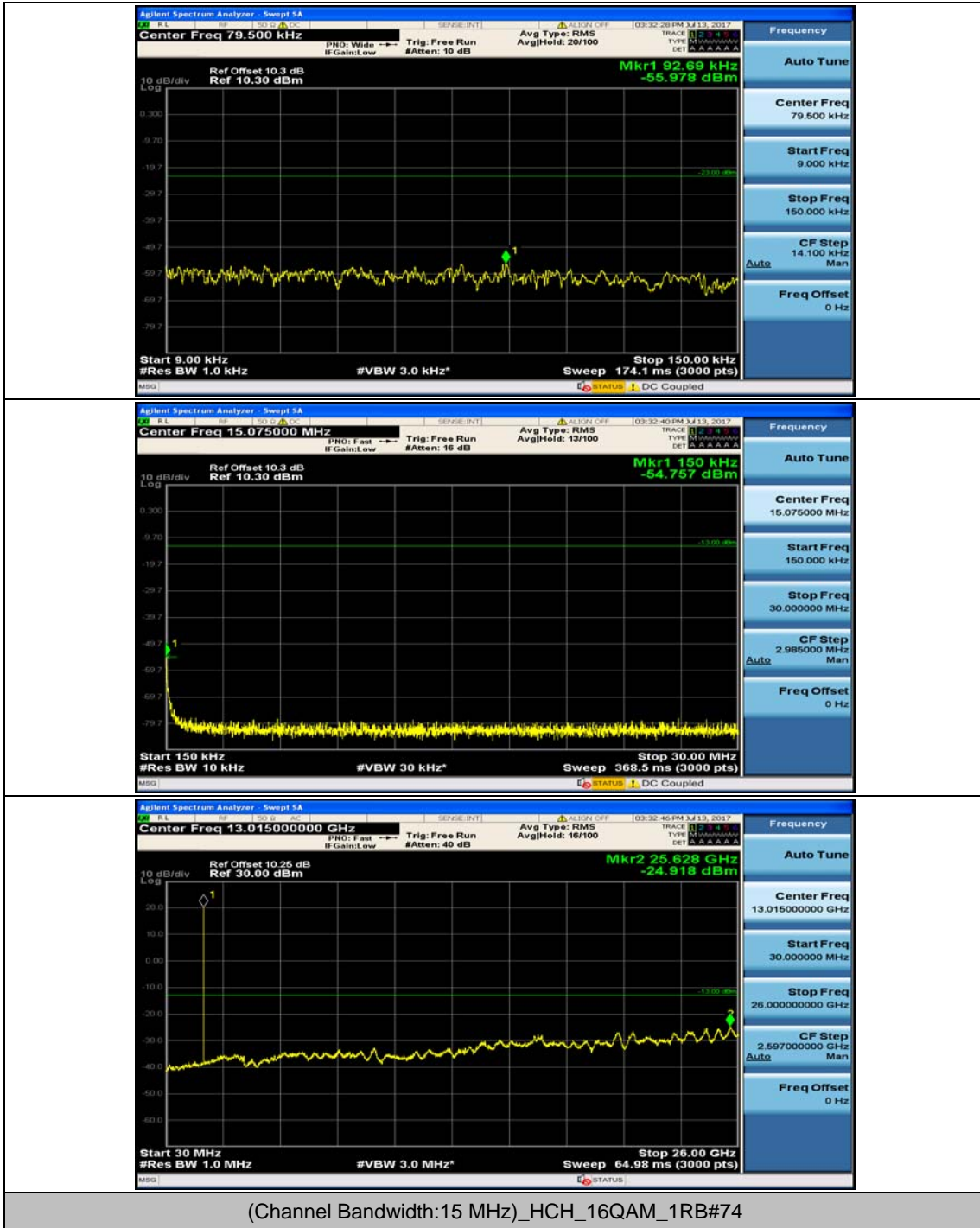


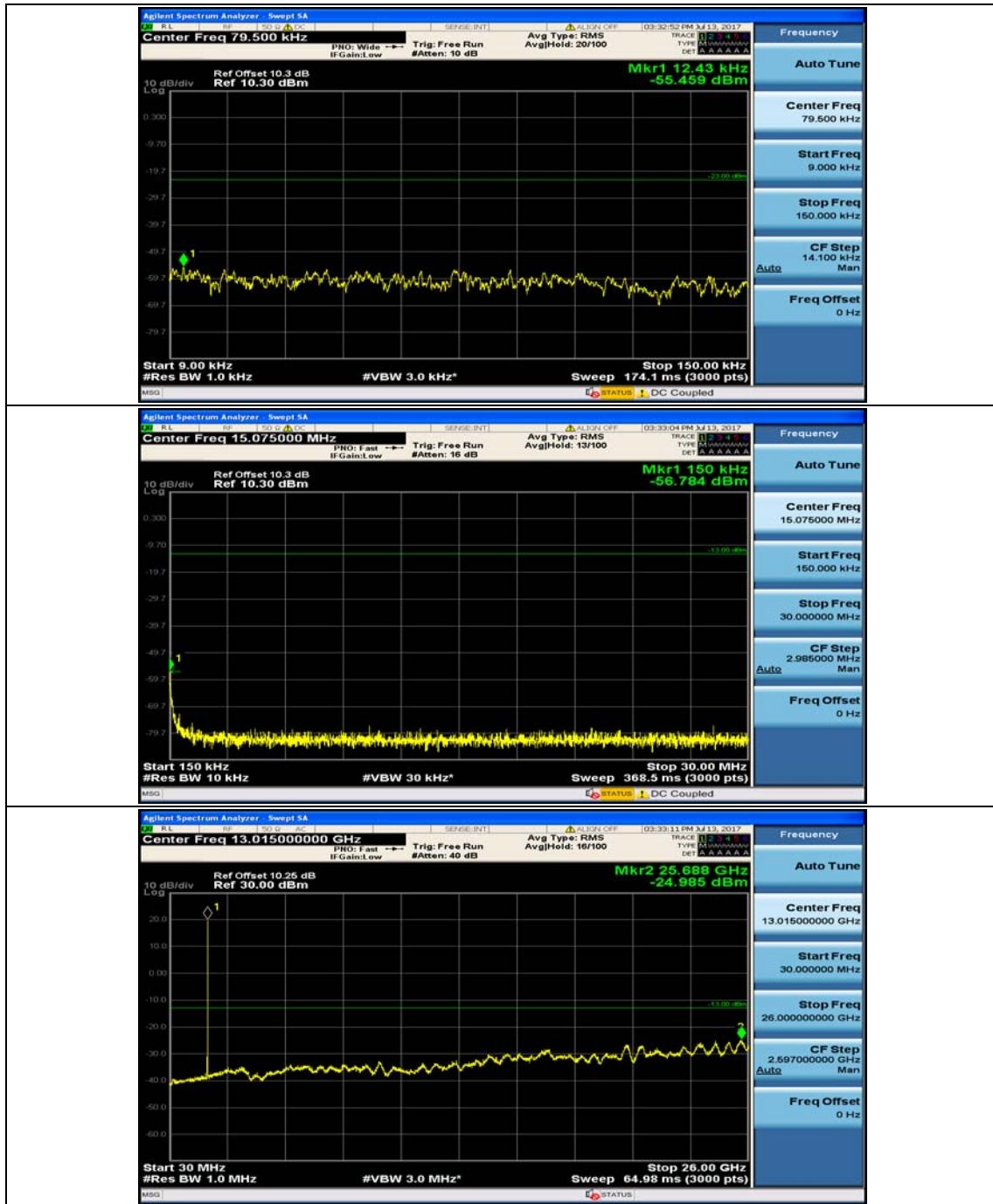




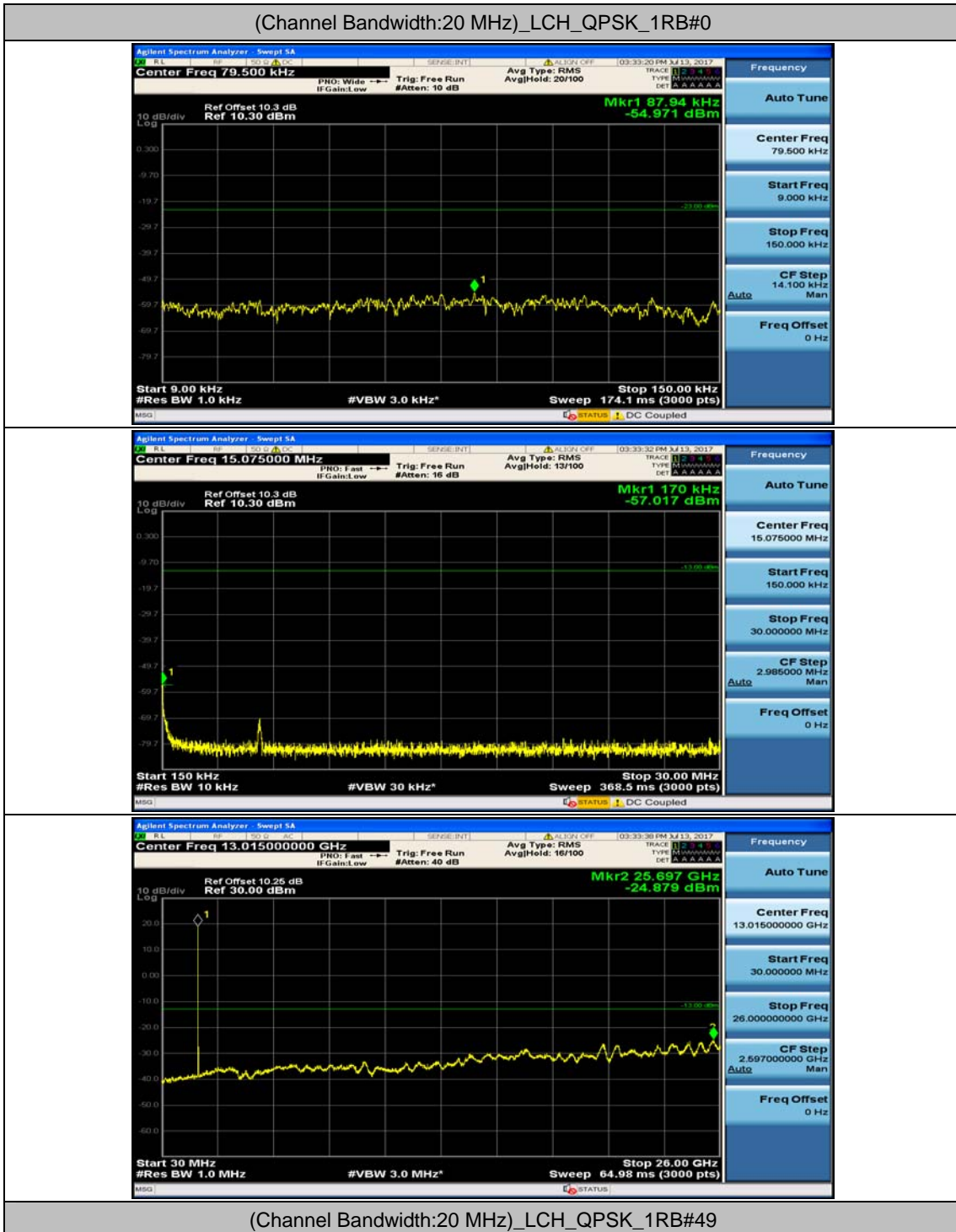


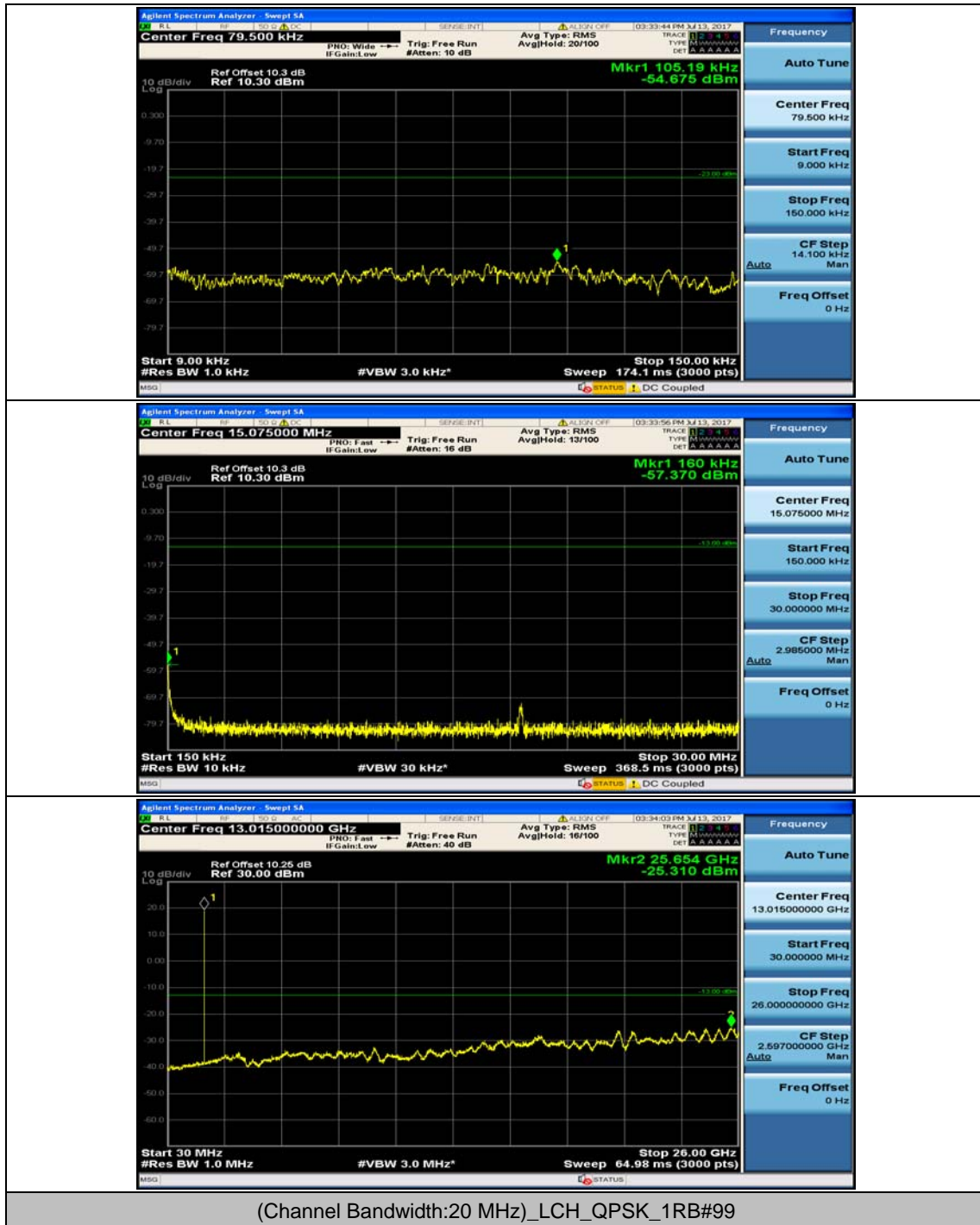




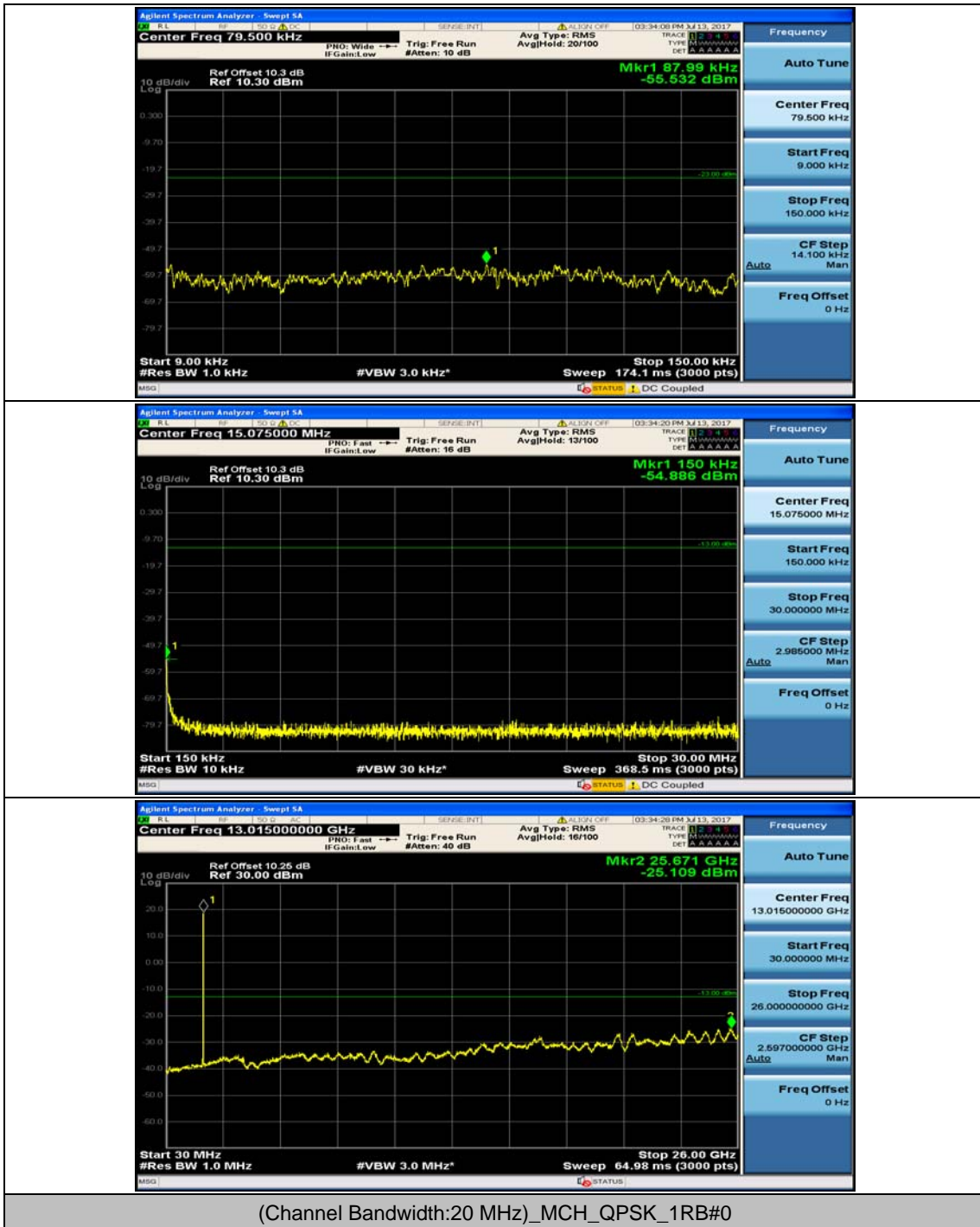


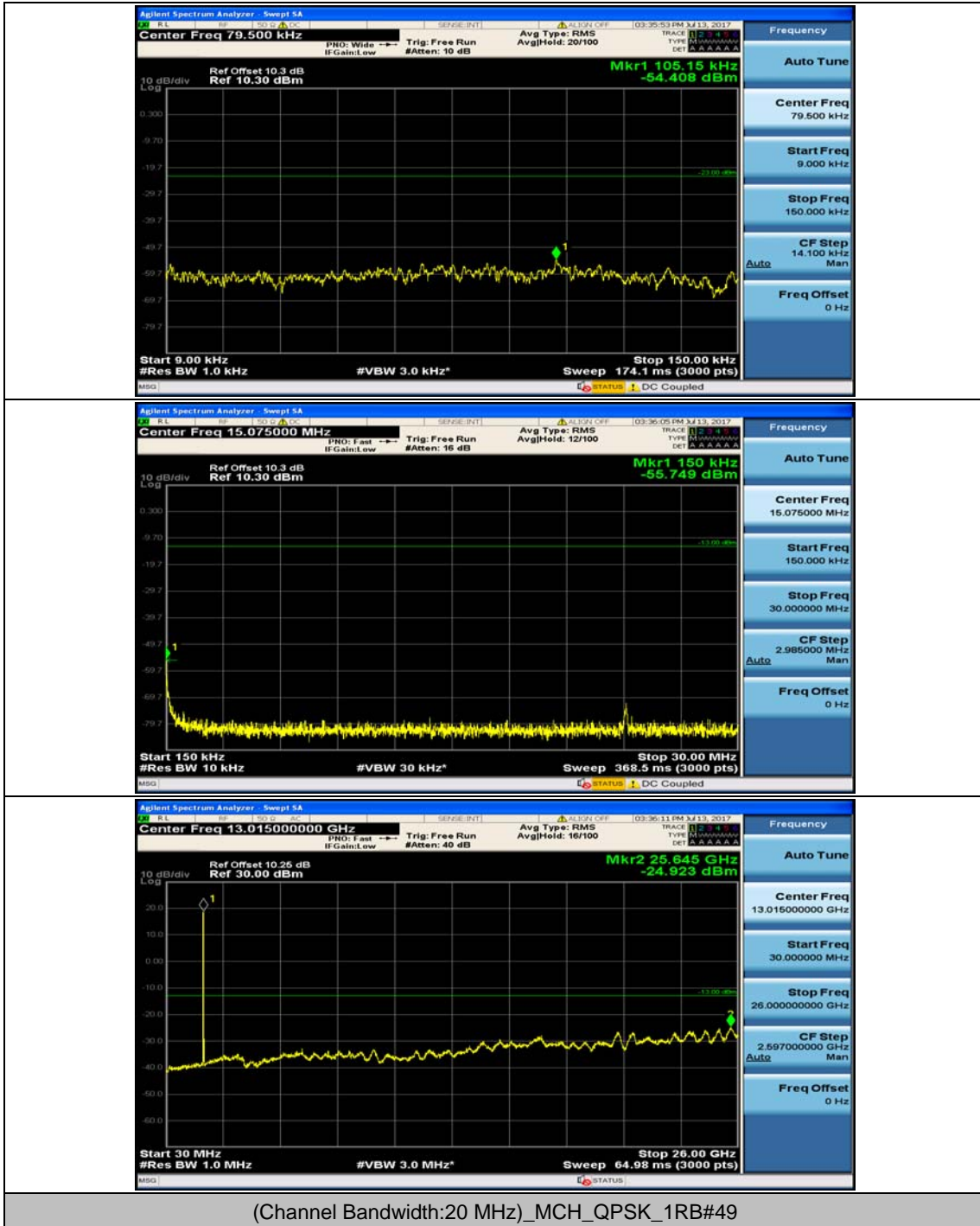
### Channel Bandwidth: 20 MHz



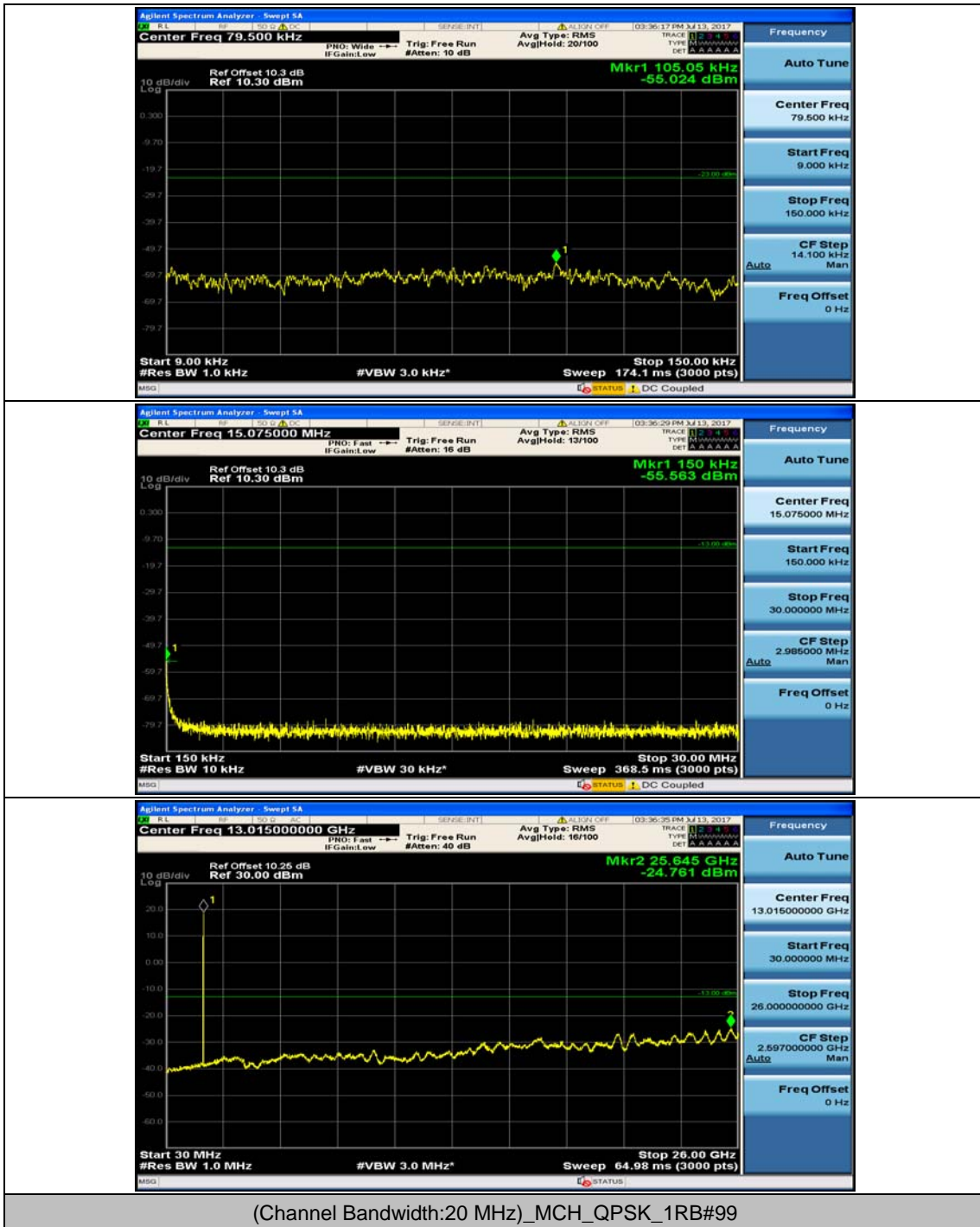


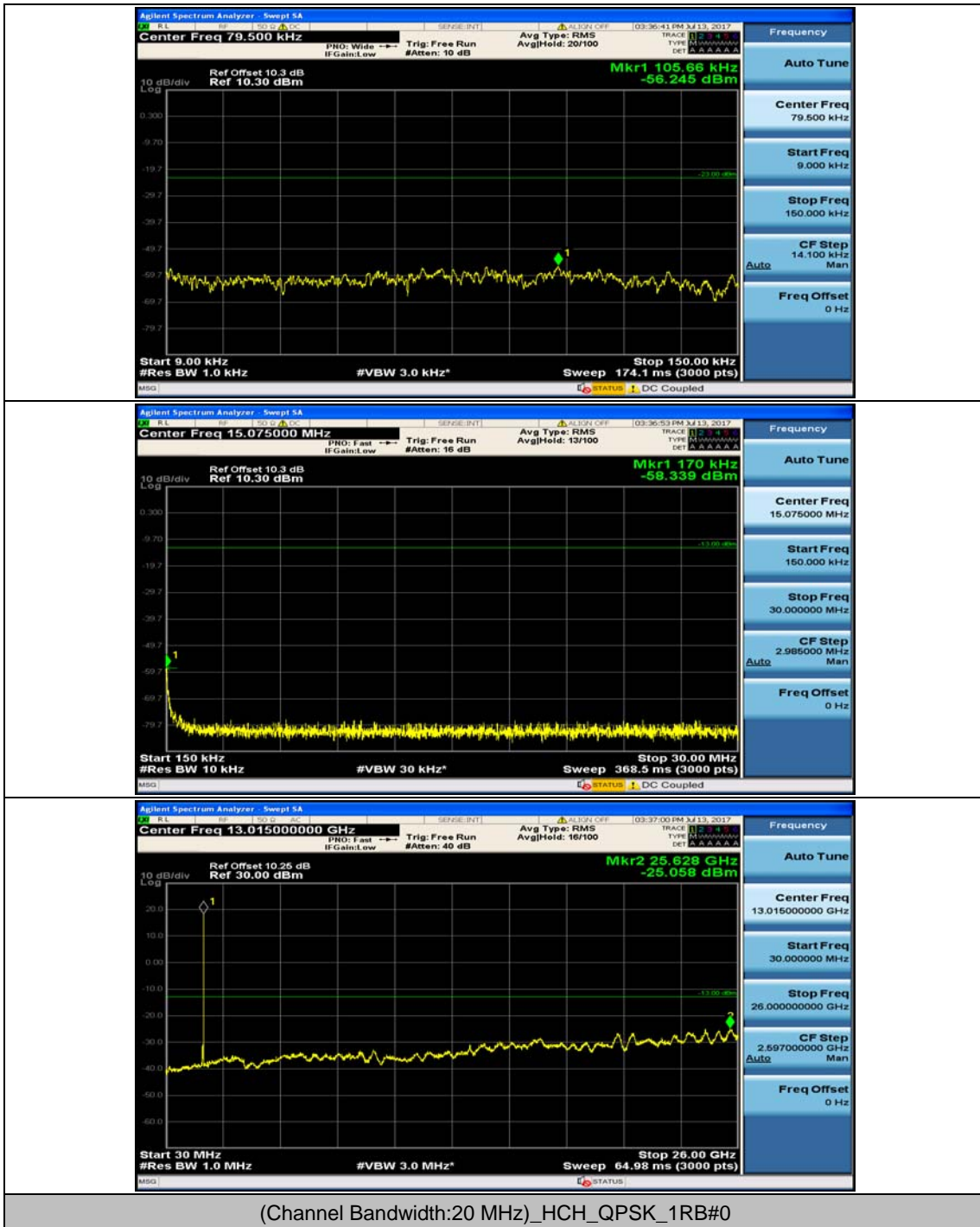
(Channel Bandwidth:20 MHz)\_LCH\_QPSK\_1RB#99

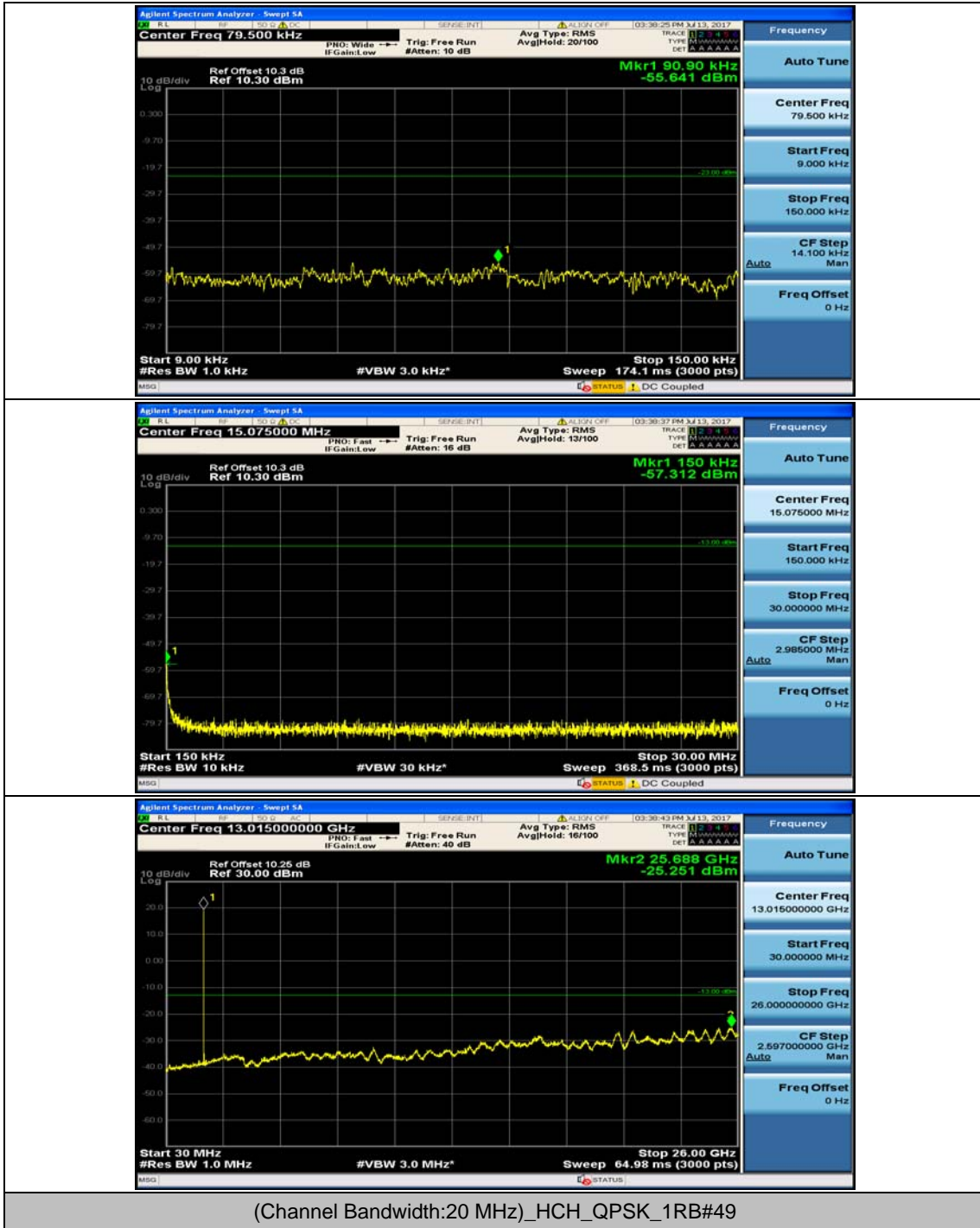


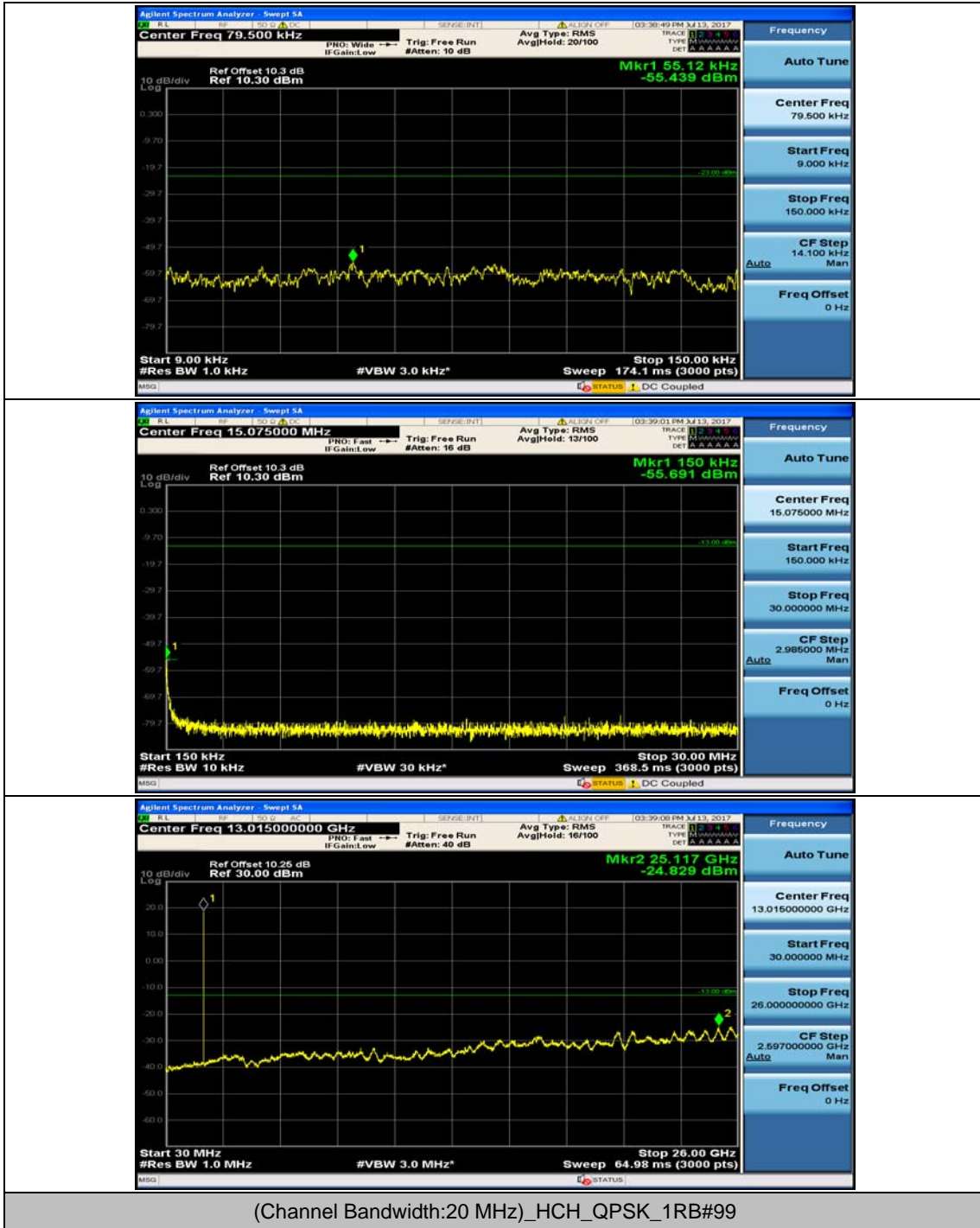


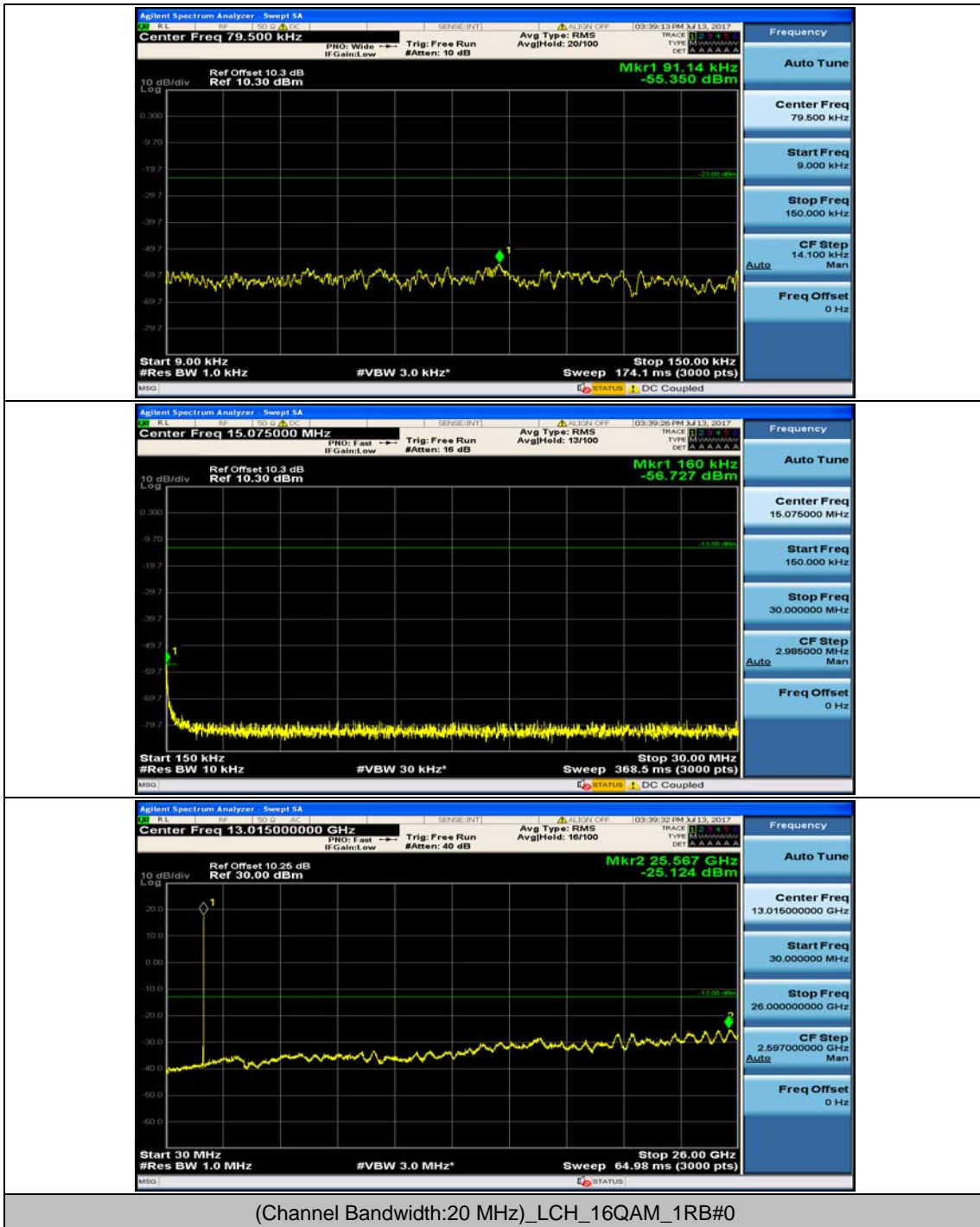


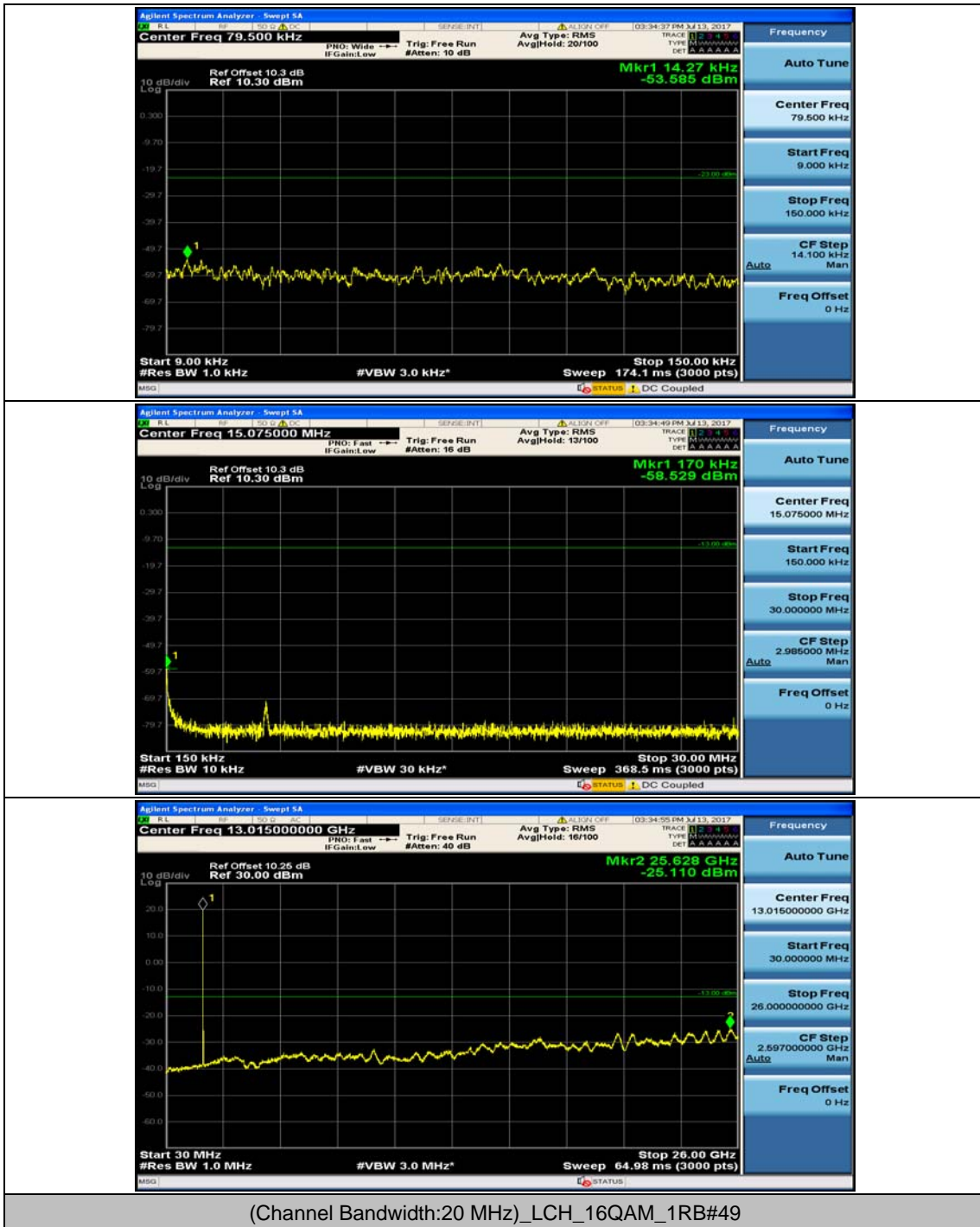


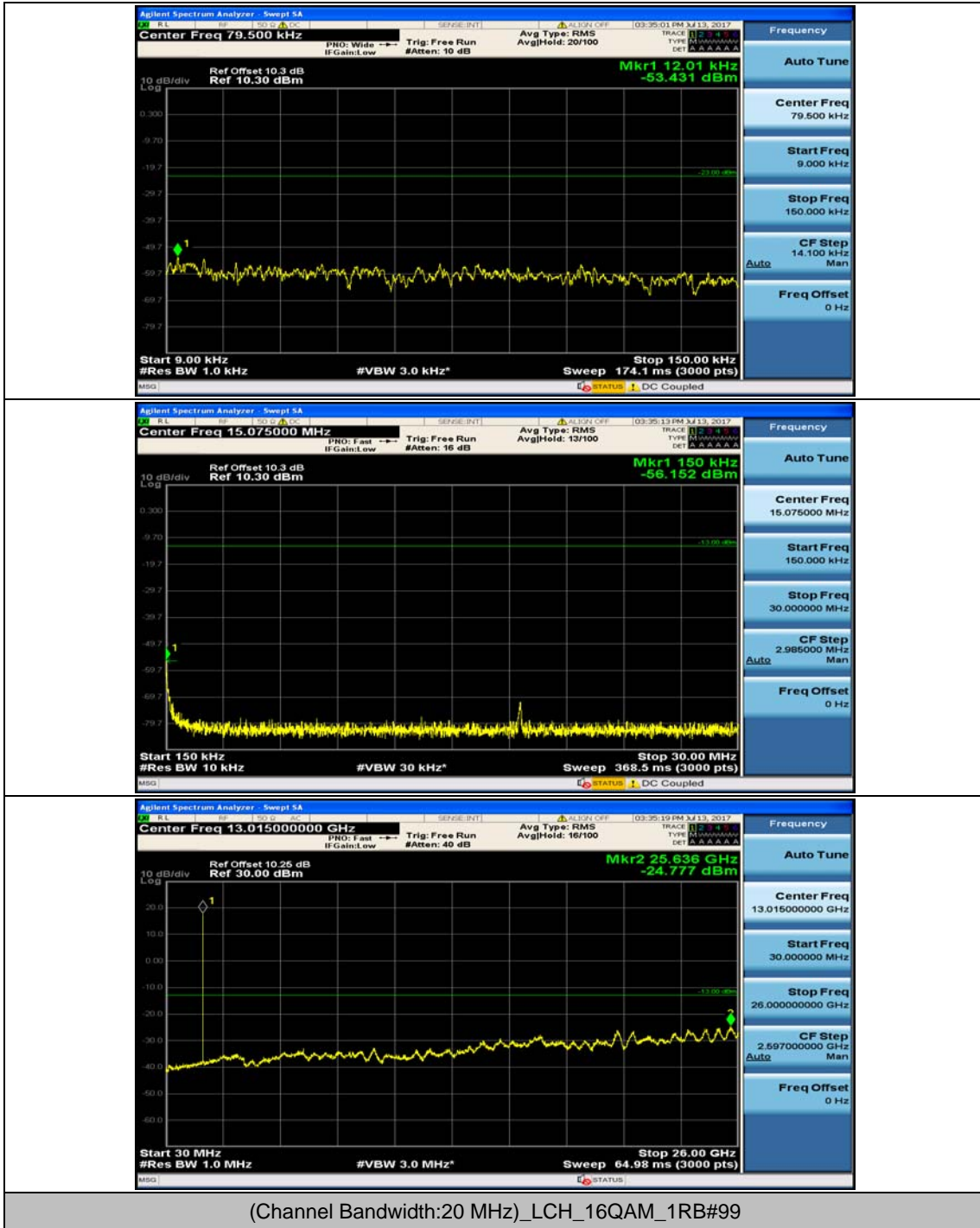


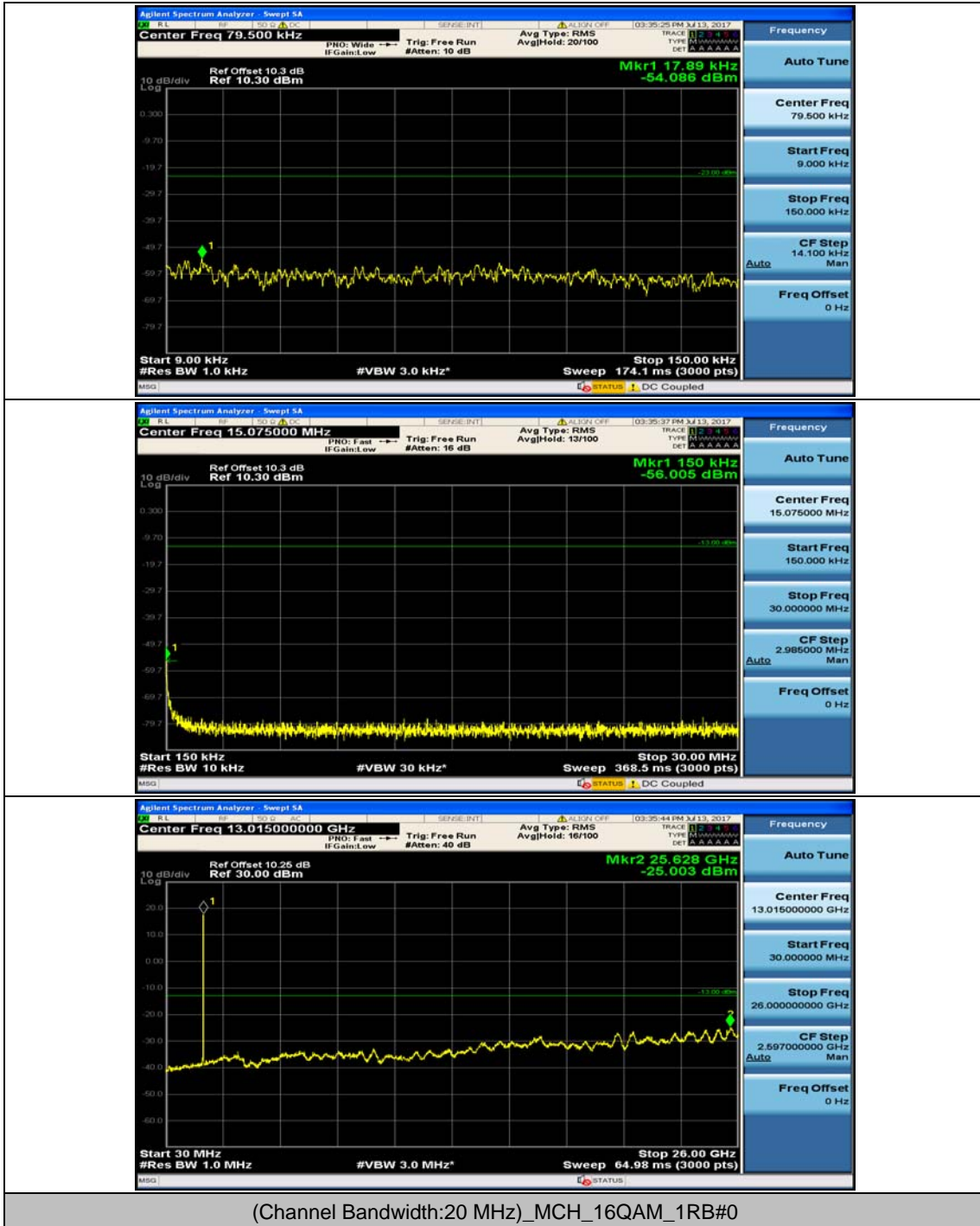




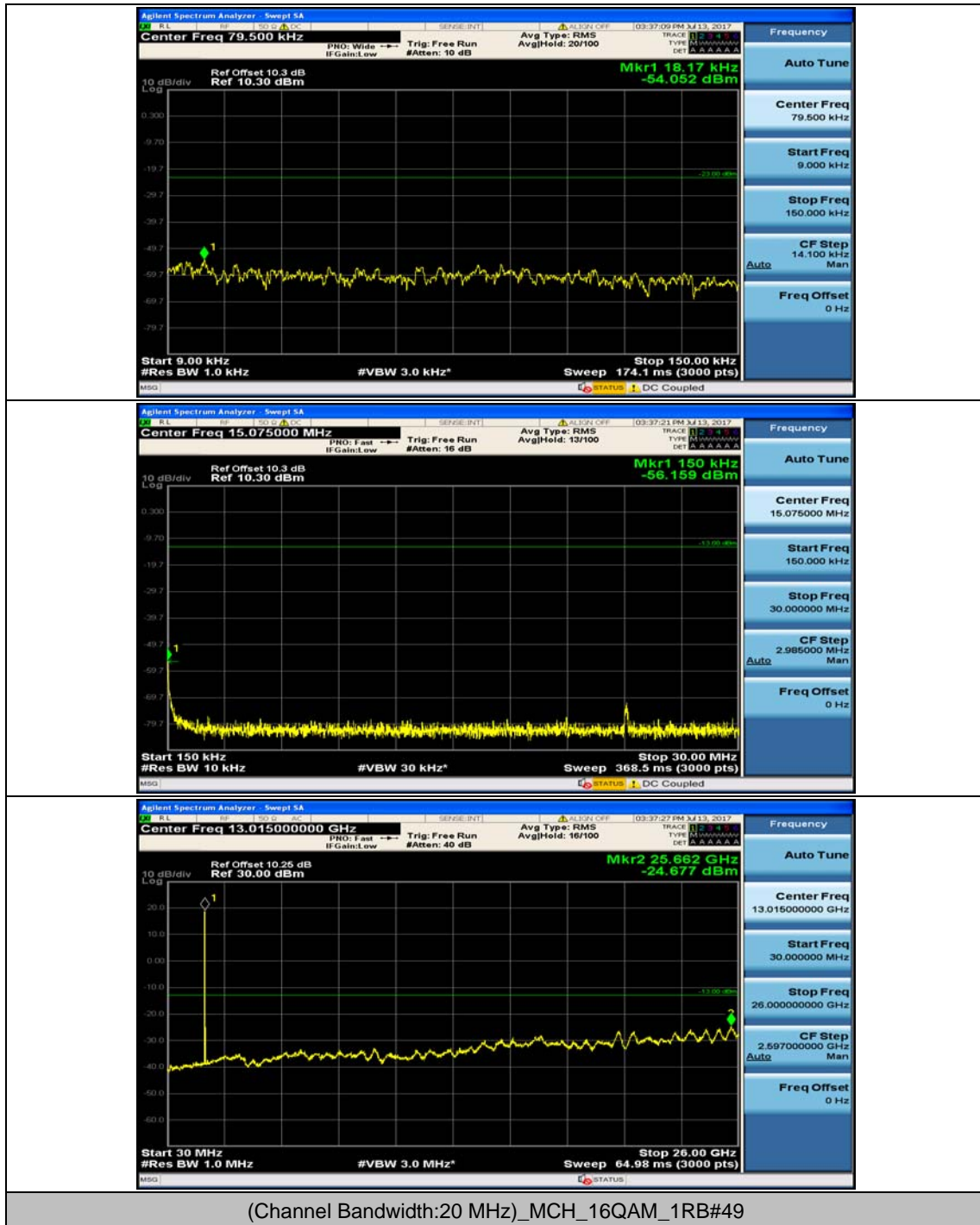


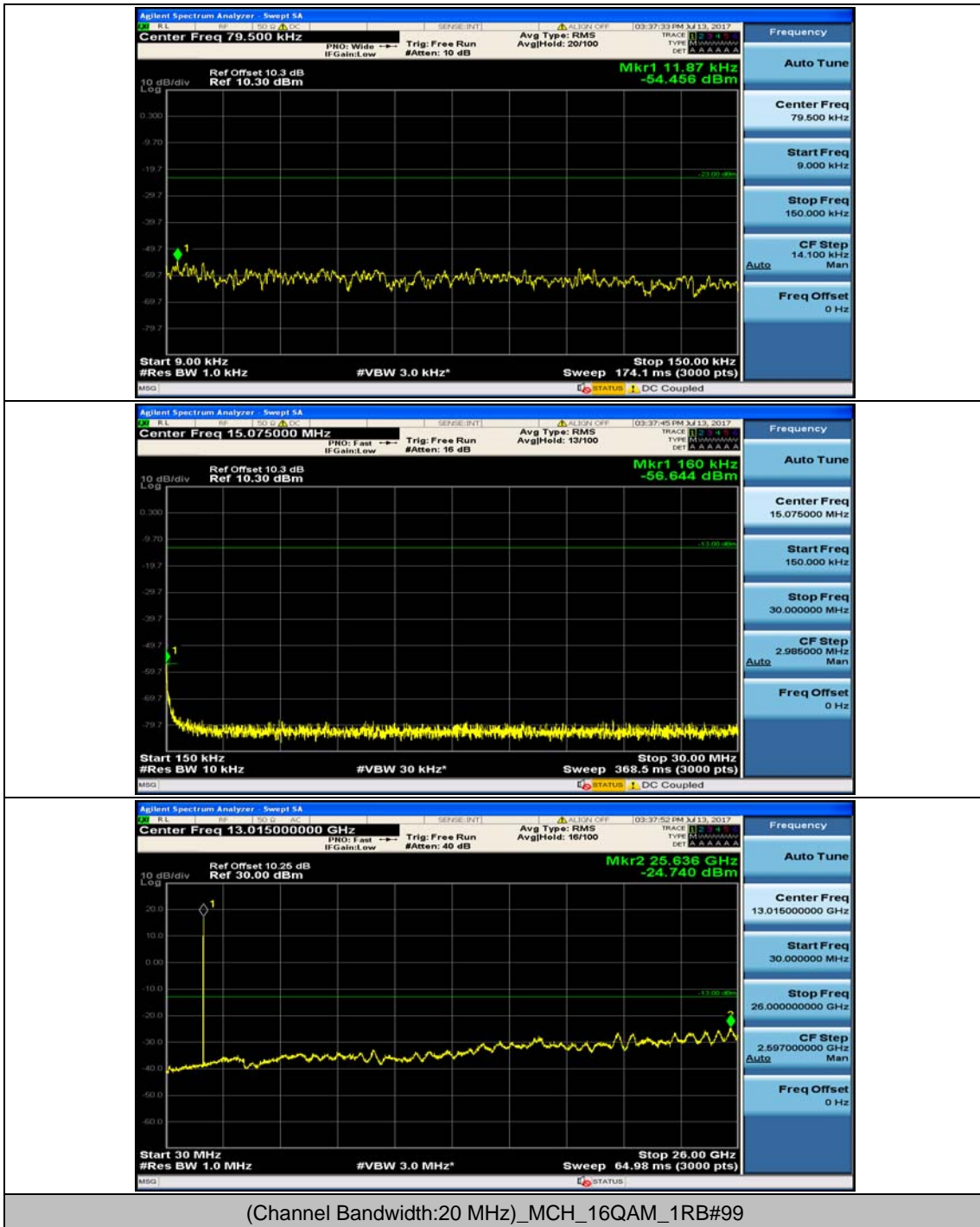


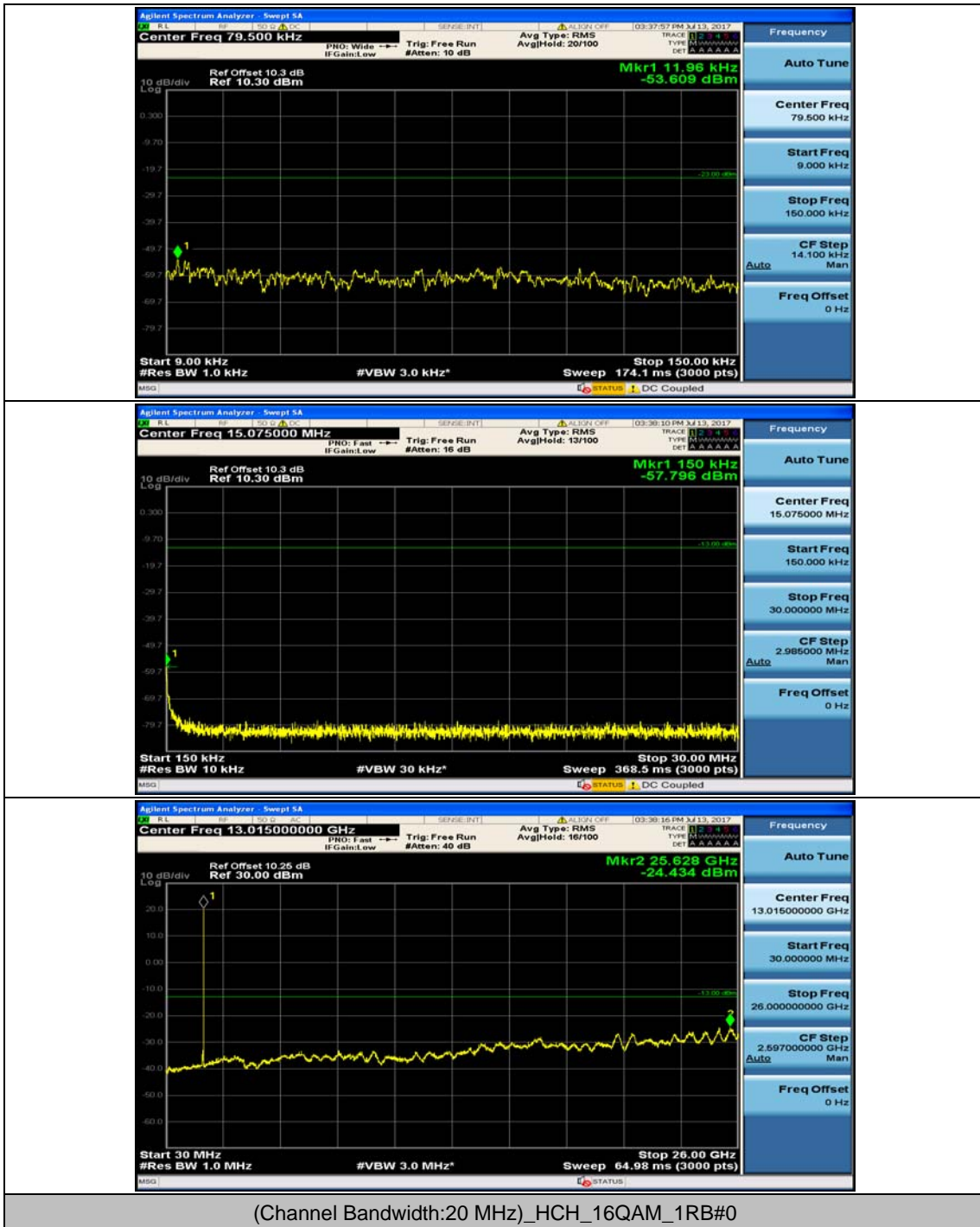


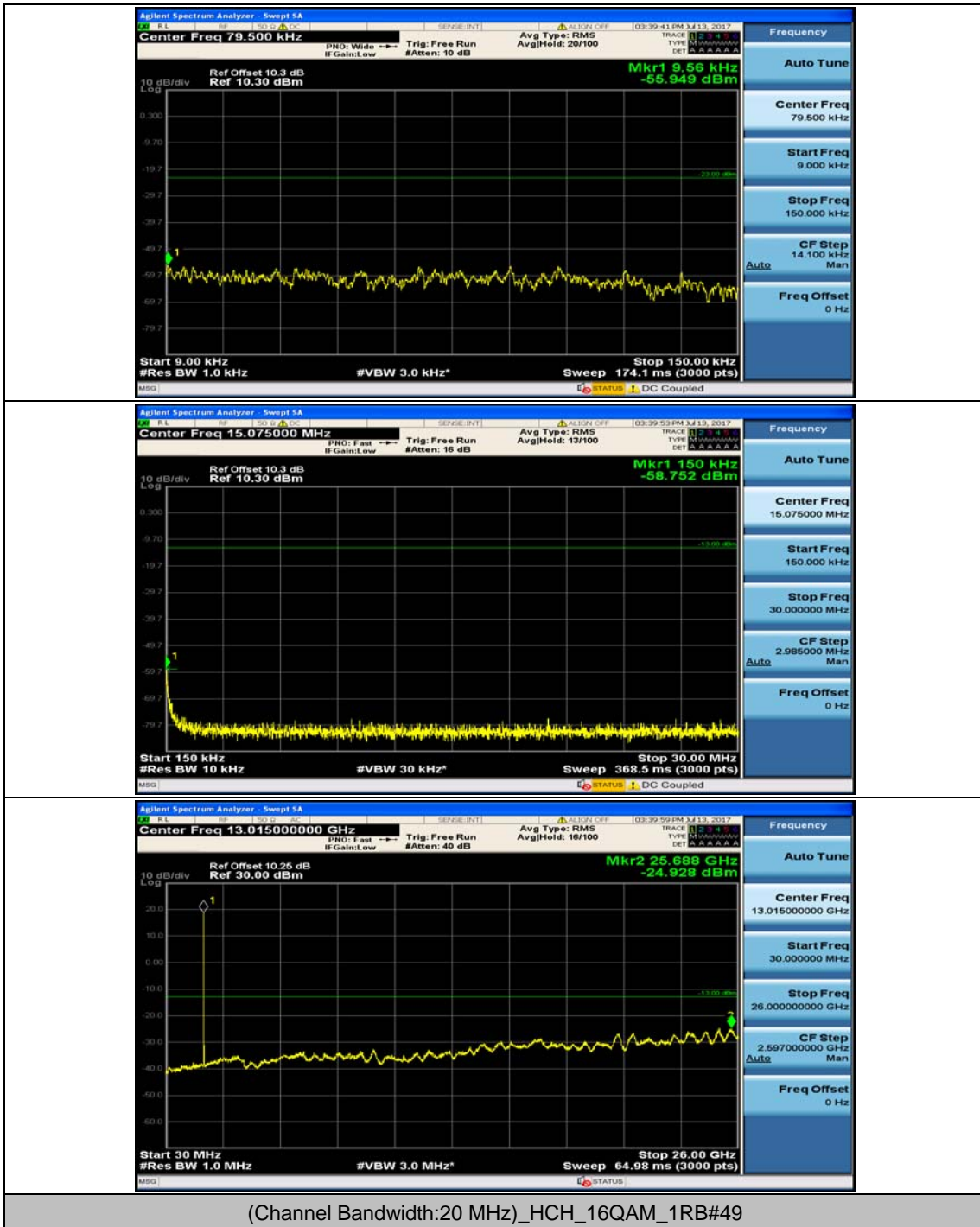


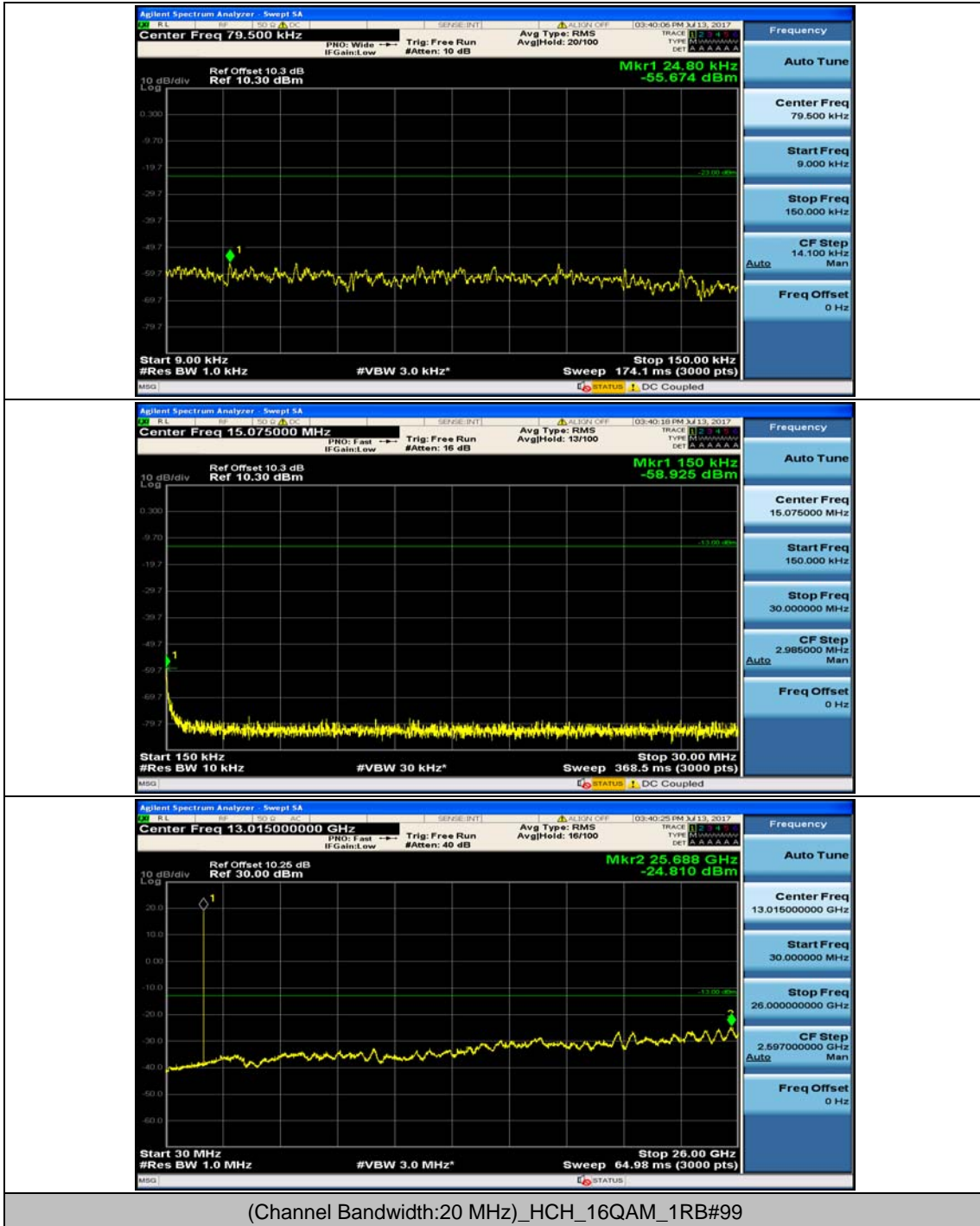


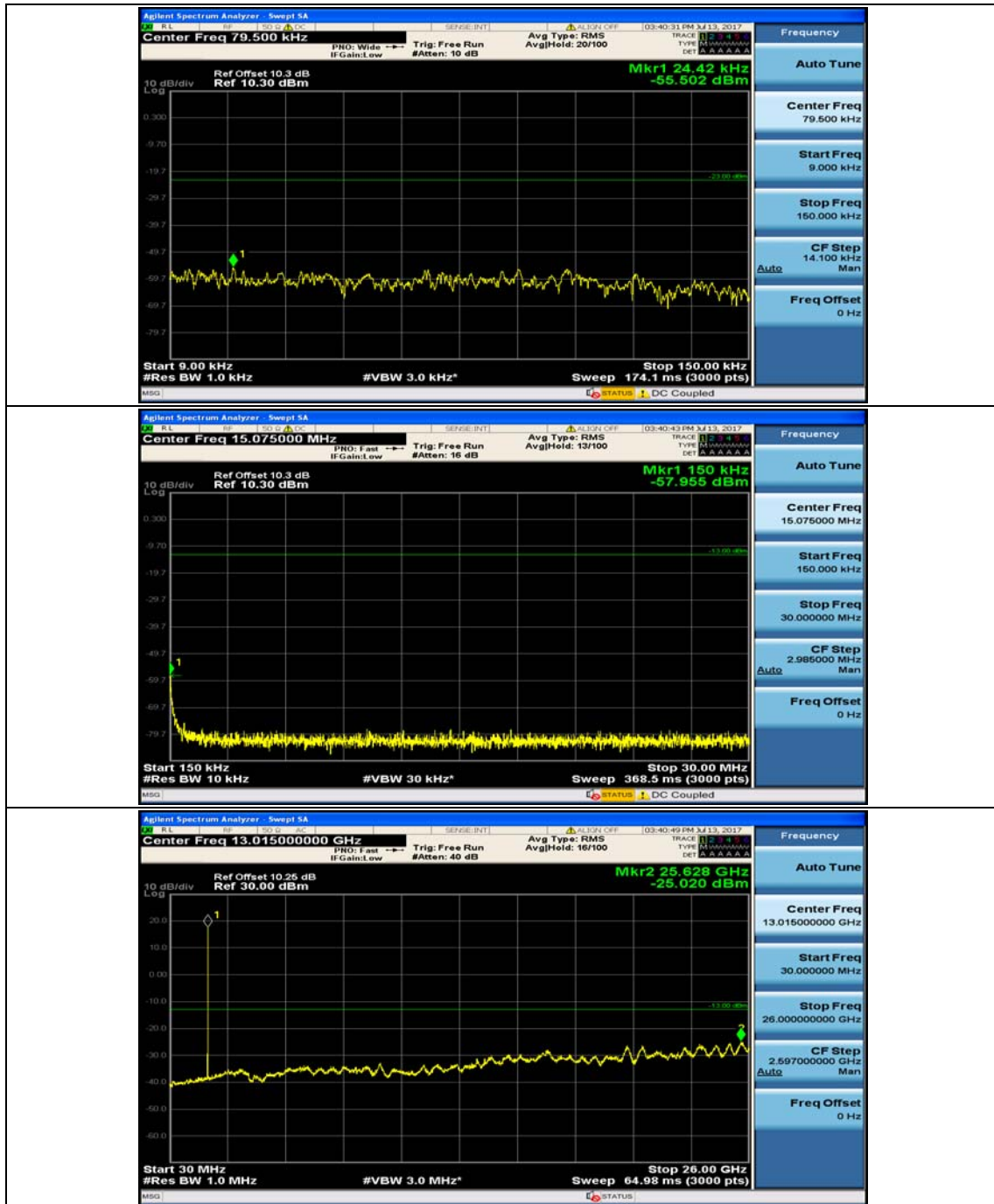












## Appendix F: Frequency Stability

### 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	1.12	0.000655	± 2.5	PASS
		VN	TN	4.94	0.002888	± 2.5	PASS
		VH	TN	-0.73	-0.000427	± 2.5	PASS
	MCH	VL	TN	-1.43	-0.000825	± 2.5	PASS
		VN	TN	3.64	0.002101	± 2.5	PASS
		VH	TN	-0.38	-0.000219	± 2.5	PASS
	HCH	VL	TN	1.62	0.000923	± 2.5	PASS
		VN	TN	4.82	0.002748	± 2.5	PASS
		VH	TN	4.24	0.002417	± 2.5	PASS
16QAM	LCH	VL	TN	0.8	0.000468	± 2.5	PASS
		VN	TN	-1.81	-0.001058	± 2.5	PASS
		VH	TN	0	0.000000	± 2.5	PASS
	MCH	VL	TN	-0.79	-0.000456	± 2.5	PASS
		VN	TN	1.41	0.000814	± 2.5	PASS
		VH	TN	2.18	0.001258	± 2.5	PASS
	HCH	VL	TN	1.84	0.001049	± 2.5	PASS
		VN	TN	1.14	0.000650	± 2.5	PASS
		VH	TN	2.23	0.001271	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	0.28	0.000164	± 2.5	PASS
		VN	-20	3.48	0.002034	± 2.5	PASS
		VN	-10	3.11	0.001818	± 2.5	PASS
		VN	0	-1.65	-0.000965	± 2.5	PASS
		VN	10	4.52	0.002642	± 2.5	PASS
		VN	20	0.99	0.000579	± 2.5	PASS
		VN	30	3.51	0.002052	± 2.5	PASS
		VN	40	0.07	0.000041	± 2.5	PASS
	MCH	VN	-30	2.04	0.001177	± 2.5	PASS
		VN	-20	-1.36	-0.000785	± 2.5	PASS

		VN	-10	-1.93	-0.001114	± 2.5	PASS	
		VN	0	3.29	0.001899	± 2.5	PASS	
		VN	10	0.9	0.000519	± 2.5	PASS	
		VN	20	0.28	0.000162	± 2.5	PASS	
		VN	30	4.77	0.002753	± 2.5	PASS	
		VN	40	4.23	0.002442	± 2.5	PASS	
		VN	50	1.54	0.000889	± 2.5	PASS	
	HCH	VN	-30	0.92	0.000524	± 2.5	PASS	
		VN	-20	-1.28	-0.000730	± 2.5	PASS	
		VN	-10	1.58	0.000901	± 2.5	PASS	
		VN	0	2.02	0.001151	± 2.5	PASS	
		VN	10	0.7	0.000399	± 2.5	PASS	
		VN	20	-0.97	-0.000553	± 2.5	PASS	
		VN	30	-0.59	-0.000336	± 2.5	PASS	
	16QAM	LCH	VN	40	-0.85	-0.000485	± 2.5	PASS
			VN	50	0.68	0.000388	± 2.5	PASS
			VN	-30	2.97	0.001736	± 2.5	PASS
			VN	-20	-0.82	-0.000479	± 2.5	PASS
VN			-10	1.47	0.000859	± 2.5	PASS	
VN			0	3.04	0.001777	± 2.5	PASS	
VN			10	1.54	0.000900	± 2.5	PASS	
VN			20	2.34	0.001368	± 2.5	PASS	
VN			30	1.39	0.000813	± 2.5	PASS	
MCH		VN	40	3.8	0.002221	± 2.5	PASS	
		VN	50	-0.68	-0.000397	± 2.5	PASS	
		VN	-30	0.41	0.000234	± 2.5	PASS	
		VN	-20	1.08	0.000616	± 2.5	PASS	
		VN	-10	2.41	0.001374	± 2.5	PASS	
		VN	0	4.85	0.002765	± 2.5	PASS	
		VN	10	-0.43	-0.000245	± 2.5	PASS	
		VN	20	-1.26	-0.000718	± 2.5	PASS	
		VN	30	0.1	0.000057	± 2.5	PASS	
HCH	VN	40	-1.82	-0.001037	± 2.5	PASS		
	VN	50	1.24	0.000707	± 2.5	PASS		
	VN	-30	1.11	0.000633	± 2.5	PASS		
	VN	-20	4.76	0.002713	± 2.5	PASS		
	VN	-10	-0.98	-0.000559	± 2.5	PASS		
	VN	0	2.75	0.001568	± 2.5	PASS		
	VN	10	3.22	0.001835	± 2.5	PASS		
VN	20	1.17	0.000667	± 2.5	PASS			
VN	30	0.55	0.000314	± 2.5	PASS			



		VN	40	0.99	0.000564	± 2.5	PASS
		VN	50	1.77	0.001009	± 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	-1.9	-0.001110	± 2.5	PASS
		VN	TN	2.48	0.001449	± 2.5	PASS
		VH	TN	2.12	0.001239	± 2.5	PASS
	MCH	VL	TN	3.05	0.001760	± 2.5	PASS
		VN	TN	2.44	0.001408	± 2.5	PASS
		VH	TN	3.53	0.002038	± 2.5	PASS
	HCH	VL	TN	0.36	0.000205	± 2.5	PASS
		VN	TN	1.25	0.000713	± 2.5	PASS
		VH	TN	-0.45	-0.000257	± 2.5	PASS
16QAM	LCH	VL	TN	-0.94	-0.000549	± 2.5	PASS
		VN	TN	2.99	0.001747	± 2.5	PASS
		VH	TN	3.08	0.001800	± 2.5	PASS
	MCH	VL	TN	4.23	0.002442	± 2.5	PASS
		VN	TN	0.3	0.000173	± 2.5	PASS
		VH	TN	2.85	0.001645	± 2.5	PASS
	HCH	VL	TN	-0.98	-0.000559	± 2.5	PASS
		VN	TN	-0.33	-0.000188	± 2.5	PASS
		VH	TN	2.7	0.001540	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	0.67	0.000391	± 2.5	PASS
		VN	-20	1.63	0.000952	± 2.5	PASS
		VN	-10	2.29	0.001338	± 2.5	PASS
		VN	0	4.39	0.002565	± 2.5	PASS
		VN	10	2.91	0.001700	± 2.5	PASS
		VN	20	0.03	0.000018	± 2.5	PASS
		VN	30	-1.63	-0.000952	± 2.5	PASS
		VN	40	2.64	0.001543	± 2.5	PASS
		VN	50	-1.76	-0.001028	± 2.5	PASS
	MCH	VN	-30	2.6	0.001501	± 2.5	PASS
		VN	-20	4.66	0.002690	± 2.5	PASS
		VN	-10	-1.26	-0.000727	± 2.5	PASS

		VN	0	3.87	0.002234	± 2.5	PASS		
		VN	10	-0.89	-0.000514	± 2.5	PASS		
		VN	20	1.05	0.000606	± 2.5	PASS		
		VN	30	4.63	0.002672	± 2.5	PASS		
		VN	40	1.78	0.001027	± 2.5	PASS		
		VN	50	3.35	0.001934	± 2.5	PASS		
	HCH	VN	-30	-0.03	-0.000017	± 2.5	PASS		
		VN	-20	3.33	0.001899	± 2.5	PASS		
		VN	-10	-1.25	-0.000713	± 2.5	PASS		
		VN	0	1.98	0.001129	± 2.5	PASS		
		VN	10	-0.99	-0.000565	± 2.5	PASS		
		VN	20	-1.49	-0.000850	± 2.5	PASS		
		VN	30	0.97	0.000553	± 2.5	PASS		
		VN	40	-0.37	-0.000211	± 2.5	PASS		
		VN	50	2.63	0.001500	± 2.5	PASS		
		16QAM	LCH	VN	-30	4.93	0.002846	± 2.5	PASS
				VN	-20	3.21	0.001853	± 2.5	PASS
				VN	-10	1.72	0.000993	± 2.5	PASS
VN	0			2.44	0.001408	± 2.5	PASS		
VN	10			4	0.002309	± 2.5	PASS		
VN	20			0.38	0.000219	± 2.5	PASS		
VN	30			4.06	0.002343	± 2.5	PASS		
VN	40			4.04	0.002332	± 2.5	PASS		
VN	50			0.35	0.000202	± 2.5	PASS		
MCH	VN		-30	-0.17	-0.000097	± 2.5	PASS		
	VN		-20	1.64	0.000935	± 2.5	PASS		
	VN		-10	0.32	0.000182	± 2.5	PASS		
	VN		0	4.26	0.002429	± 2.5	PASS		
	VN		10	3.92	0.002236	± 2.5	PASS		
	VN		20	1.99	0.001135	± 2.5	PASS		
	VN		30	-1.51	-0.000861	± 2.5	PASS		
	VN		40	1.42	0.000810	± 2.5	PASS		
	VN		50	2.06	0.001175	± 2.5	PASS		
HCH	VN		-30	2.86	0.001631	± 2.5	PASS		
	VN		-20	3.82	0.002179	± 2.5	PASS		
	VN		-10	-1.61	-0.000918	± 2.5	PASS		
	VN		0	4.03	0.002298	± 2.5	PASS		
	VN		10	0.25	0.000143	± 2.5	PASS		
	VN		20	1.71	0.000975	± 2.5	PASS		
	VN		30	3.74	0.002133	± 2.5	PASS		
	VN		40	4.49	0.002561	± 2.5	PASS		

		VN	50	0.33	0.000188	± 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	4.54	0.002651	± 2.5	PASS
		VN	TN	4.32	0.002523	± 2.5	PASS
		VH	TN	-0.49	-0.000286	± 2.5	PASS
	MCH	VL	TN	2.47	0.001426	± 2.5	PASS
		VN	TN	2	0.001154	± 2.5	PASS
		VH	TN	2.41	0.001391	± 2.5	PASS
	HCH	VL	TN	4.93	0.002813	± 2.5	PASS
		VN	TN	-1.27	-0.000725	± 2.5	PASS
		VH	TN	-0.13	-0.000074	± 2.5	PASS
16QAM	LCH	VL	TN	3.92	0.002289	± 2.5	PASS
		VN	TN	3.56	0.002079	± 2.5	PASS
		VH	TN	2.3	0.001343	± 2.5	PASS
	MCH	VL	TN	0.45	0.000260	± 2.5	PASS
		VN	TN	0.44	0.000254	± 2.5	PASS
		VH	TN	-1.98	-0.001143	± 2.5	PASS
	HCH	VL	TN	2.33	0.001330	± 2.5	PASS
		VN	TN	4.77	0.002722	± 2.5	PASS
		VH	TN	0.08	0.000046	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-0.84	-0.000491	± 2.5	PASS
		VN	-20	4.31	0.002517	± 2.5	PASS
		VN	-10	-1.55	-0.000905	± 2.5	PASS
		VN	0	2.93	0.001711	± 2.5	PASS
		VN	10	4.07	0.002377	± 2.5	PASS
		VN	20	1.13	0.000660	± 2.5	PASS
		VN	30	1.03	0.000601	± 2.5	PASS
		VN	40	4.99	0.002914	± 2.5	PASS
		VN	50	3.2	0.001869	± 2.5	PASS
	MCH	VN	-30	3.37	0.001945	± 2.5	PASS
		VN	-20	-1.64	-0.000947	± 2.5	PASS
		VN	-10	4.46	0.002574	± 2.5	PASS
		VN	0	2.53	0.001460	± 2.5	PASS

		VN	10	0.28	0.000162	± 2.5	PASS
		VN	20	4.28	0.002470	± 2.5	PASS
		VN	30	0.23	0.000133	± 2.5	PASS
		VN	40	-0.42	-0.000242	± 2.5	PASS
		VN	50	0.67	0.000387	± 2.5	PASS
	HCH	VN	-30	2.39	0.001364	± 2.5	PASS
		VN	-20	1.85	0.000970	± 2.5	PASS
		VN	-10	3.69	0.001934	± 2.5	PASS
		VN	0	4.78	0.002506	± 2.5	PASS
		VN	10	-0.25	-0.000131	± 2.5	PASS
		VN	20	0.34	0.000178	± 2.5	PASS
		VN	30	-0.18	-0.000094	± 2.5	PASS
		VN	40	1.12	0.000587	± 2.5	PASS
		VN	50	0.89	0.000467	± 2.5	PASS
		16QAM	LCH	VN	-30	1.94	0.001120
VN	-20			4.98	0.002874	± 2.5	PASS
VN	-10			0.45	0.000260	± 2.5	PASS
VN	0			2.78	0.001605	± 2.5	PASS
VN	10			2.13	0.001229	± 2.5	PASS
VN	20			-1.67	-0.000964	± 2.5	PASS
VN	30			3.85	0.002222	± 2.5	PASS
VN	40			2.23	0.001287	± 2.5	PASS
VN	50			4.75	0.002742	± 2.5	PASS
MCH	VN		-30	3.77	0.002151	± 2.5	PASS
	VN		-20	-0.43	-0.000245	± 2.5	PASS
	VN		-10	0.49	0.000280	± 2.5	PASS
	VN		0	1.34	0.000765	± 2.5	PASS
	VN		10	4.11	0.002345	± 2.5	PASS
	VN		20	1.06	0.000605	± 2.5	PASS
	VN		30	-0.33	-0.000188	± 2.5	PASS
	VN		40	-1.23	-0.000702	± 2.5	PASS
	VN		50	1.98	0.001130	± 2.5	PASS
HCH	VN		-30	0.25	0.000131	± 2.5	PASS
	VN		-20	-0.39	-0.000204	± 2.5	PASS
	VN		-10	3.9	0.002045	± 2.5	PASS
	VN		0	-0.75	-0.000393	± 2.5	PASS
	VN		10	3.43	0.001798	± 2.5	PASS
	VN		20	3.42	0.001793	± 2.5	PASS
	VN		30	2.24	0.001174	± 2.5	PASS
	VN		40	0.48	0.000252	± 2.5	PASS
	VN		50	2.38	0.001248	± 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	4.04	0.002356	± 2.5	PASS
		VN	TN	-1.89	-0.001102	± 2.5	PASS
		VH	TN	1.79	0.001044	± 2.5	PASS
	MCH	VL	TN	4.62	0.002667	± 2.5	PASS
		VN	TN	-0.51	-0.000294	± 2.5	PASS
		VH	TN	4.58	0.002644	± 2.5	PASS
	HCH	VL	TN	2.9	0.001657	± 2.5	PASS
		VN	TN	4.11	0.002349	± 2.5	PASS
		VH	TN	3.44	0.001966	± 2.5	PASS
16QAM	LCH	VL	TN	4.93	0.002875	± 2.5	PASS
		VN	TN	4.91	0.002863	± 2.5	PASS
		VH	TN	3.54	0.002064	± 2.5	PASS
	MCH	VL	TN	0.49	0.000283	± 2.5	PASS
		VN	TN	3.29	0.001899	± 2.5	PASS
		VH	TN	1.77	0.001022	± 2.5	PASS
	HCH	VL	TN	0.08	0.000046	± 2.5	PASS
		VN	TN	3.37	0.001926	± 2.5	PASS
		VH	TN	-0.99	-0.000566	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	3.36	0.001959	± 2.5	PASS
		VN	-20	1.54	0.000898	± 2.5	PASS
		VN	-10	2.4	0.001399	± 2.5	PASS
		VN	0	3.76	0.002192	± 2.5	PASS
		VN	10	1.18	0.000688	± 2.5	PASS
		VN	20	0.13	0.000076	± 2.5	PASS
		VN	30	3.06	0.001784	± 2.5	PASS
		VN	40	3.5	0.002041	± 2.5	PASS
		VN	50	0.79	0.000461	± 2.5	PASS
	MCH	VN	-30	2.69	0.001553	± 2.5	PASS
		VN	-20	2.81	0.001622	± 2.5	PASS
		VN	-10	3.73	0.002153	± 2.5	PASS
		VN	0	0.78	0.000450	± 2.5	PASS
		VN	10	1.44	0.000831	± 2.5	PASS
		VN	20	3.41	0.001968	± 2.5	PASS

		VN	30	0.27	0.000156	± 2.5	PASS
		VN	40	-1.09	-0.000629	± 2.5	PASS
		VN	50	1.19	0.000687	± 2.5	PASS
	HCH	VN	-30	4.16	0.002377	± 2.5	PASS
		VN	-20	-1.67	-0.000954	± 2.5	PASS
		VN	-10	-0.18	-0.000103	± 2.5	PASS
		VN	0	2.42	0.001383	± 2.5	PASS
		VN	10	1.78	0.001017	± 2.5	PASS
		VN	20	0.67	0.000383	± 2.5	PASS
		VN	30	3.91	0.002234	± 2.5	PASS
		VN	40	-0.23	-0.000131	± 2.5	PASS
		VN	50	-1.08	-0.000617	± 2.5	PASS
16QAM	LCH	VN	-30	-1.81	-0.001045	± 2.5	PASS
		VN	-20	3.54	0.002043	± 2.5	PASS
		VN	-10	2.67	0.001541	± 2.5	PASS
		VN	0	-0.97	-0.000560	± 2.5	PASS
		VN	10	2.47	0.001426	± 2.5	PASS
		VN	20	3.56	0.002055	± 2.5	PASS
		VN	30	-1.06	-0.000612	± 2.5	PASS
		VN	40	0.39	0.000225	± 2.5	PASS
		VN	50	-0.66	-0.000381	± 2.5	PASS
	MCH	VN	-30	3.41	0.001949	± 2.5	PASS
		VN	-20	-1.32	-0.000754	± 2.5	PASS
		VN	-10	0.18	0.000103	± 2.5	PASS
		VN	0	0.01	0.000006	± 2.5	PASS
		VN	10	-1.26	-0.000720	± 2.5	PASS
		VN	20	-1.26	-0.000720	± 2.5	PASS
		VN	30	0.63	0.000360	± 2.5	PASS
		VN	40	4.3	0.002457	± 2.5	PASS
		VN	50	0.27	0.000154	± 2.5	PASS
	HCH	VN	-30	0.93	0.000531	± 2.5	PASS
		VN	-20	3.81	0.002177	± 2.5	PASS
		VN	-10	4.05	0.002314	± 2.5	PASS
		VN	0	4.07	0.002326	± 2.5	PASS
		VN	10	-0.81	-0.000463	± 2.5	PASS
		VN	20	4.56	0.002606	± 2.5	PASS
		VN	30	2.11	0.001206	± 2.5	PASS
		VN	40	3.23	0.001846	± 2.5	PASS
		VN	50	3.78	0.002160	± 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	4.64	0.002702	± 2.5	PASS
		VN	TN	0.7	0.000408	± 2.5	PASS
		VH	TN	4.52	0.002632	± 2.5	PASS
	MCH	VL	TN	-1.94	-0.001120	± 2.5	PASS
		VN	TN	2.32	0.001339	± 2.5	PASS
		VH	TN	-0.62	-0.000358	± 2.5	PASS
	HCH	VL	TN	-0.44	-0.000252	± 2.5	PASS
		VN	TN	-0.97	-0.000555	± 2.5	PASS
		VH	TN	-1.37	-0.000784	± 2.5	PASS
16QAM	LCH	VL	TN	4.04	0.002352	± 2.5	PASS
		VN	TN	1.72	0.001001	± 2.5	PASS
		VH	TN	3.96	0.002306	± 2.5	PASS
	MCH	VL	TN	5	0.002886	± 2.5	PASS
		VN	TN	4.46	0.002574	± 2.5	PASS
		VH	TN	0.65	0.000375	± 2.5	PASS
	HCH	VL	TN	1.29	0.000738	± 2.5	PASS
		VN	TN	-0.37	-0.000212	± 2.5	PASS
		VH	TN	-0.65	-0.000372	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-1.81	-0.001054	± 2.5	PASS
		VN	-20	3.33	0.001939	± 2.5	PASS
		VN	-10	-0.69	-0.000402	± 2.5	PASS
		VN	0	0.74	0.000431	± 2.5	PASS
		VN	10	2.58	0.001502	± 2.5	PASS
		VN	20	3.39	0.001974	± 2.5	PASS
		VN	30	2.75	0.001601	± 2.5	PASS
		VN	40	1.16	0.000675	± 2.5	PASS
		VN	50	0.7	0.000408	± 2.5	PASS
	MCH	VN	-30	-0.22	-0.000127	± 2.5	PASS
		VN	-20	1.44	0.000831	± 2.5	PASS
		VN	-10	-1.14	-0.000658	± 2.5	PASS
		VN	0	-0.44	-0.000254	± 2.5	PASS
		VN	10	2.24	0.001293	± 2.5	PASS
		VN	20	1.96	0.001131	± 2.5	PASS

		VN	30	4.33	0.002499	± 2.5	PASS
		VN	40	0.27	0.000156	± 2.5	PASS
		VN	50	-1.21	-0.000698	± 2.5	PASS
	HCH	VN	-30	4.81	0.002753	± 2.5	PASS
		VN	-20	-0.7	-0.000401	± 2.5	PASS
		VN	-10	3.1	0.001774	± 2.5	PASS
		VN	0	1.46	0.000835	± 2.5	PASS
		VN	10	4.41	0.002524	± 2.5	PASS
		VN	20	0.16	0.000092	± 2.5	PASS
		VN	30	-0.91	-0.000521	± 2.5	PASS
		VN	40	-0.77	-0.000441	± 2.5	PASS
		VN	50	0.2	0.000114	± 2.5	PASS
16QAM	LCH	VN	-30	4.96	0.002863	± 2.5	PASS
		VN	-20	2.85	0.001645	± 2.5	PASS
		VN	-10	3.47	0.002003	± 2.5	PASS
		VN	0	-0.66	-0.000381	± 2.5	PASS
		VN	10	0.27	0.000156	± 2.5	PASS
		VN	20	3.77	0.002176	± 2.5	PASS
		VN	30	3.28	0.001893	± 2.5	PASS
		VN	40	4.09	0.002361	± 2.5	PASS
		VN	50	-0.49	-0.000283	± 2.5	PASS
	MCH	VN	-30	0.63	0.000361	± 2.5	PASS
		VN	-20	-0.7	-0.000401	± 2.5	PASS
		VN	-10	4.63	0.002649	± 2.5	PASS
		VN	0	2.94	0.001682	± 2.5	PASS
		VN	10	3.41	0.001951	± 2.5	PASS
		VN	20	3.1	0.001774	± 2.5	PASS
		VN	30	-1.21	-0.000692	± 2.5	PASS
		VN	40	4.41	0.002524	± 2.5	PASS
		VN	50	-0.72	-0.000412	± 2.5	PASS
	HCH	VN	-30	-0.48	-0.000275	± 2.5	PASS
		VN	-20	-0.09	-0.000052	± 2.5	PASS
		VN	-10	2.06	0.001179	± 2.5	PASS
		VN	0	-0.2	-0.000114	± 2.5	PASS
		VN	10	-0.26	-0.000149	± 2.5	PASS
		VN	20	-1.79	-0.001024	± 2.5	PASS
		VN	30	3.49	0.001997	± 2.5	PASS
		VN	40	4.66	0.002667	± 2.5	PASS
		VN	50	2.39	0.001368	± 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	0.08	0.000047	± 2.5	PASS
		VN	TN	-1.81	-0.001052	± 2.5	PASS
		VH	TN	1.09	0.000634	± 2.5	PASS
	MCH	VL	TN	-0.58	-0.000335	± 2.5	PASS
		VN	TN	3.55	0.002049	± 2.5	PASS
		VH	TN	-1.31	-0.000756	± 2.5	PASS
	HCH	VL	TN	2.59	0.001484	± 2.5	PASS
		VN	TN	1.9	0.001089	± 2.5	PASS
		VH	TN	-1.75	-0.001003	± 2.5	PASS
16QAM	LCH	VL	TN	3.74	0.002174	± 2.5	PASS
		VN	TN	4.04	0.002349	± 2.5	PASS
		VH	TN	-0.27	-0.000157	± 2.5	PASS
	MCH	VL	TN	2.32	0.001339	± 2.5	PASS
		VN	TN	4.56	0.002632	± 2.5	PASS
		VH	TN	0.56	0.000323	± 2.5	PASS
	HCH	VL	TN	1.94	0.001112	± 2.5	PASS
		VN	TN	4.3	0.002464	± 2.5	PASS
		VH	TN	2.74	0.001570	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	2.05	0.001192	± 2.5	PASS
		VN	-20	1.12	0.000651	± 2.5	PASS
		VN	-10	3.57	0.002076	± 2.5	PASS
		VN	0	1.06	0.000616	± 2.5	PASS
		VN	10	3.04	0.001767	± 2.5	PASS
		VN	20	0.98	0.000570	± 2.5	PASS
		VN	30	0.44	0.000256	± 2.5	PASS
		VN	40	1.07	0.000622	± 2.5	PASS
		VN	50	4.59	0.002669	± 2.5	PASS
	MCH	VN	-30	3.6	0.002078	± 2.5	PASS
		VN	-20	2.5	0.001443	± 2.5	PASS
		VN	-10	-0.49	-0.000283	± 2.5	PASS
		VN	0	3.25	0.001876	± 2.5	PASS
		VN	10	4.1	0.002367	± 2.5	PASS
		VN	20	2.23	0.001287	± 2.5	PASS

		VN	30	2.46	0.001420	± 2.5	PASS
		VN	40	0.02	0.000012	± 2.5	PASS
		VN	50	0.87	0.000502	± 2.5	PASS
	HCH	VN	-30	0.01	0.000006	± 2.5	PASS
		VN	-20	4.76	0.002728	± 2.5	PASS
		VN	-10	0.09	0.000052	± 2.5	PASS
		VN	0	3.81	0.002183	± 2.5	PASS
		VN	10	4.08	0.002338	± 2.5	PASS
		VN	20	4.14	0.002372	± 2.5	PASS
		VN	30	2.21	0.001266	± 2.5	PASS
		VN	40	4.24	0.002430	± 2.5	PASS
		VN	50	0.26	0.000149	± 2.5	PASS
		16QAM	LCH	VN	-30	0.47	0.000271
VN	-20			0.74	0.000427	± 2.5	PASS
VN	-10			-0.09	-0.000052	± 2.5	PASS
VN	0			3.13	0.001807	± 2.5	PASS
VN	10			2.04	0.001177	± 2.5	PASS
VN	20			1.43	0.000825	± 2.5	PASS
VN	30			0.13	0.000075	± 2.5	PASS
VN	40			3.1	0.001789	± 2.5	PASS
VN	50			0.98	0.000566	± 2.5	PASS
MCH	VN		-30	4.31	0.002470	± 2.5	PASS
	VN		-20	3.24	0.001857	± 2.5	PASS
	VN		-10	-1.44	-0.000825	± 2.5	PASS
	VN		0	0.98	0.000562	± 2.5	PASS
	VN		10	1.84	0.001054	± 2.5	PASS
	VN		20	1.06	0.000607	± 2.5	PASS
	VN		30	2.64	0.001513	± 2.5	PASS
	VN		40	-0.13	-0.000074	± 2.5	PASS
	VN		50	1.23	0.000705	± 2.5	PASS
HCH	VN		-30	3.76	0.002155	± 2.5	PASS
	VN		-20	4.75	0.002722	± 2.5	PASS
	VN		-10	3.89	0.002229	± 2.5	PASS
	VN		0	-0.15	-0.000086	± 2.5	PASS
	VN		10	1.84	0.001054	± 2.5	PASS
	VN		20	-0.53	-0.000304	± 2.5	PASS
	VN		30	2.51	0.001438	± 2.5	PASS
	VN		40	-1.63	-0.000934	± 2.5	PASS
	VN		50	3.03	0.001736	± 2.5	PASS