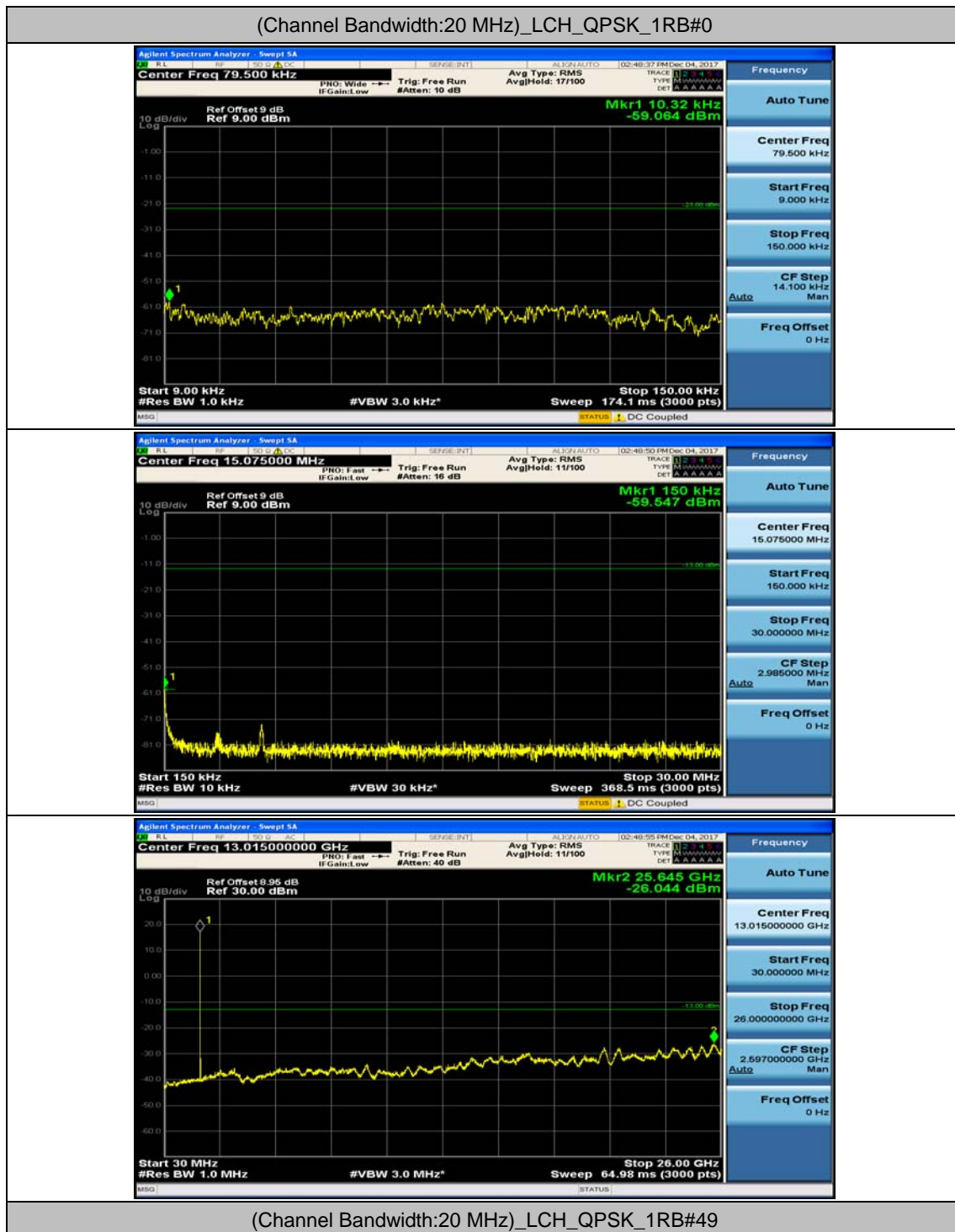
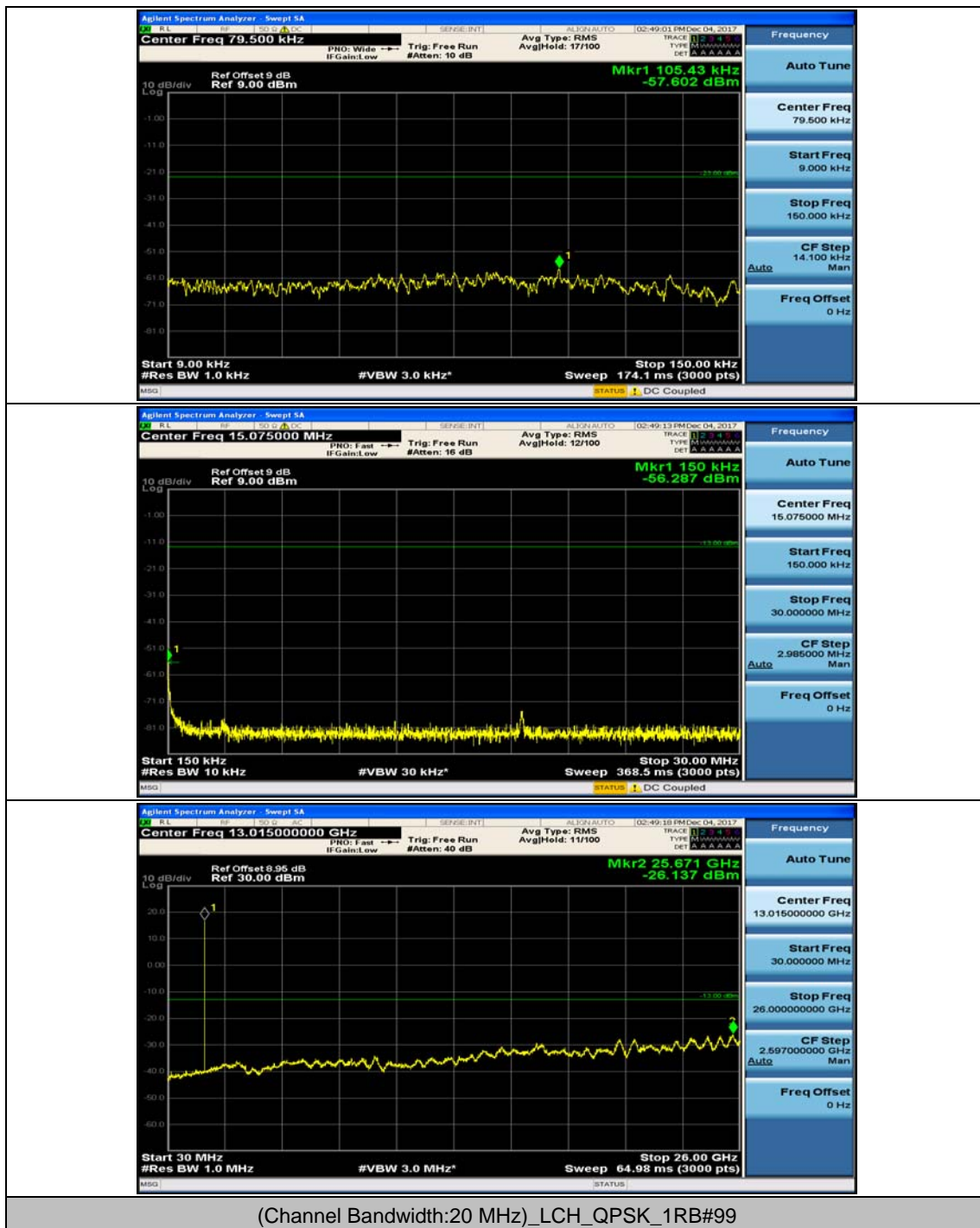
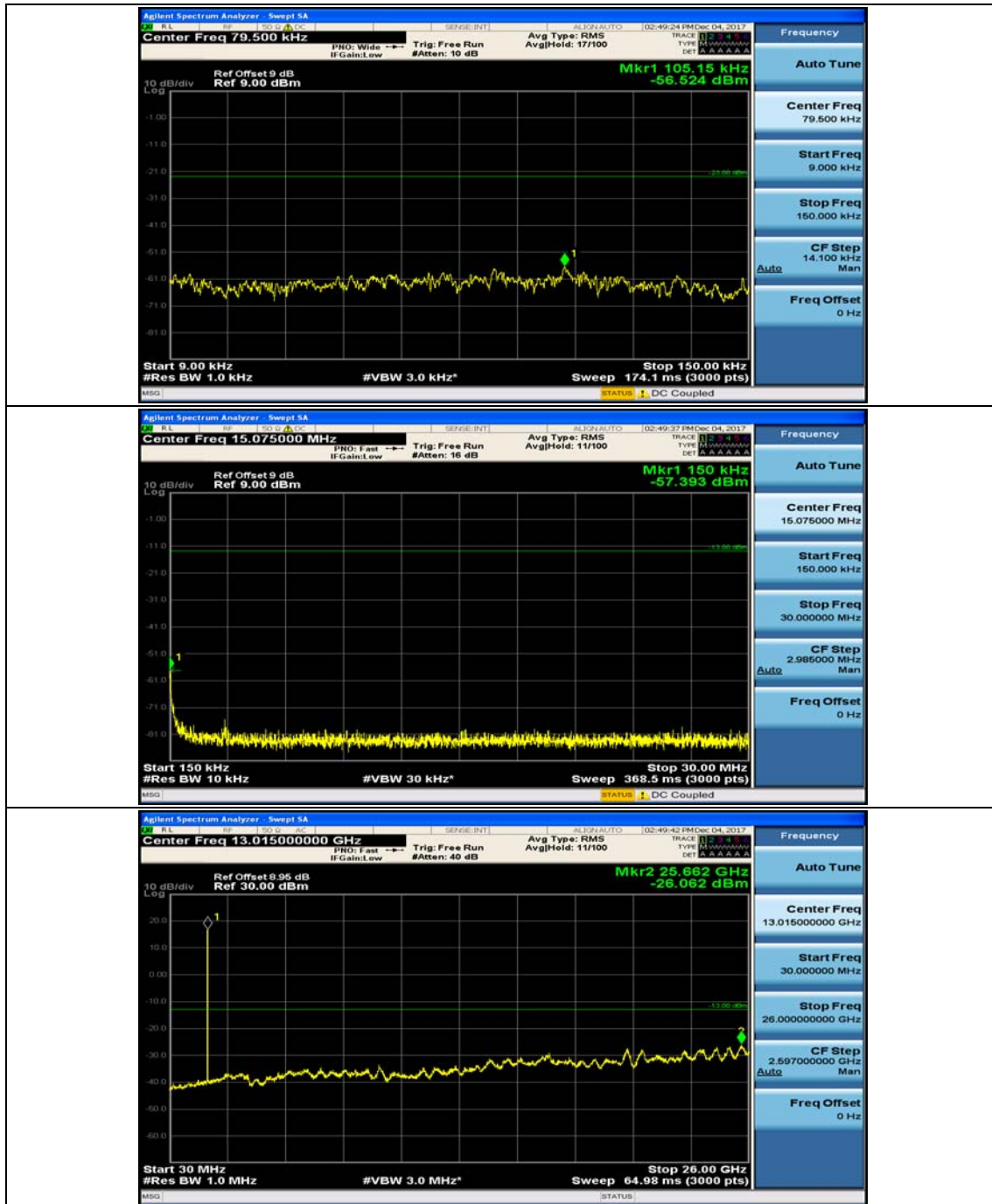


## Channel Bandwidth: 20 MHz

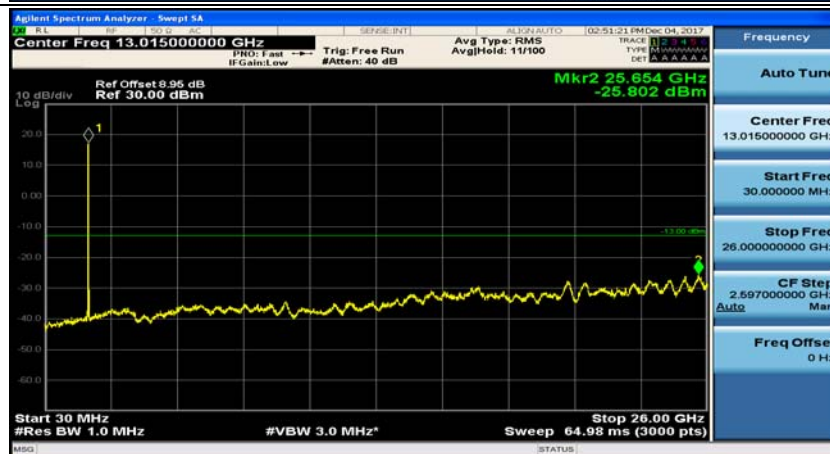
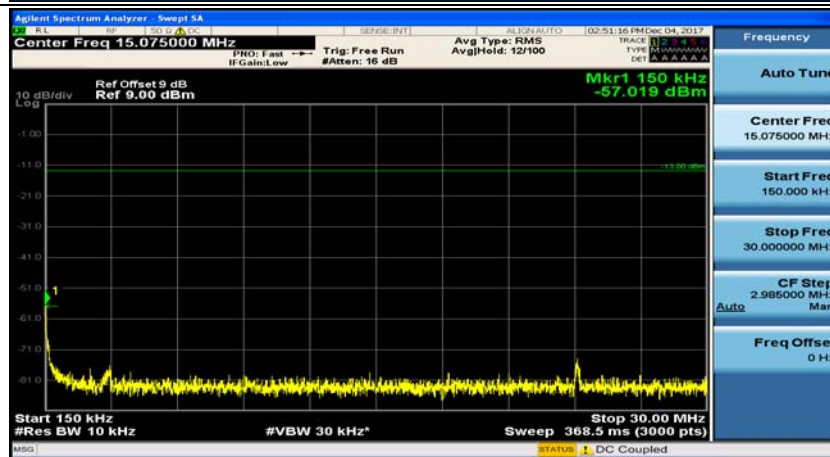
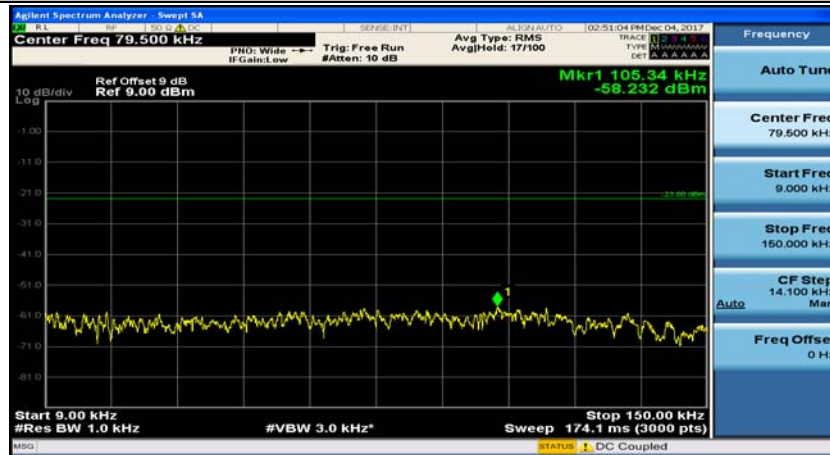




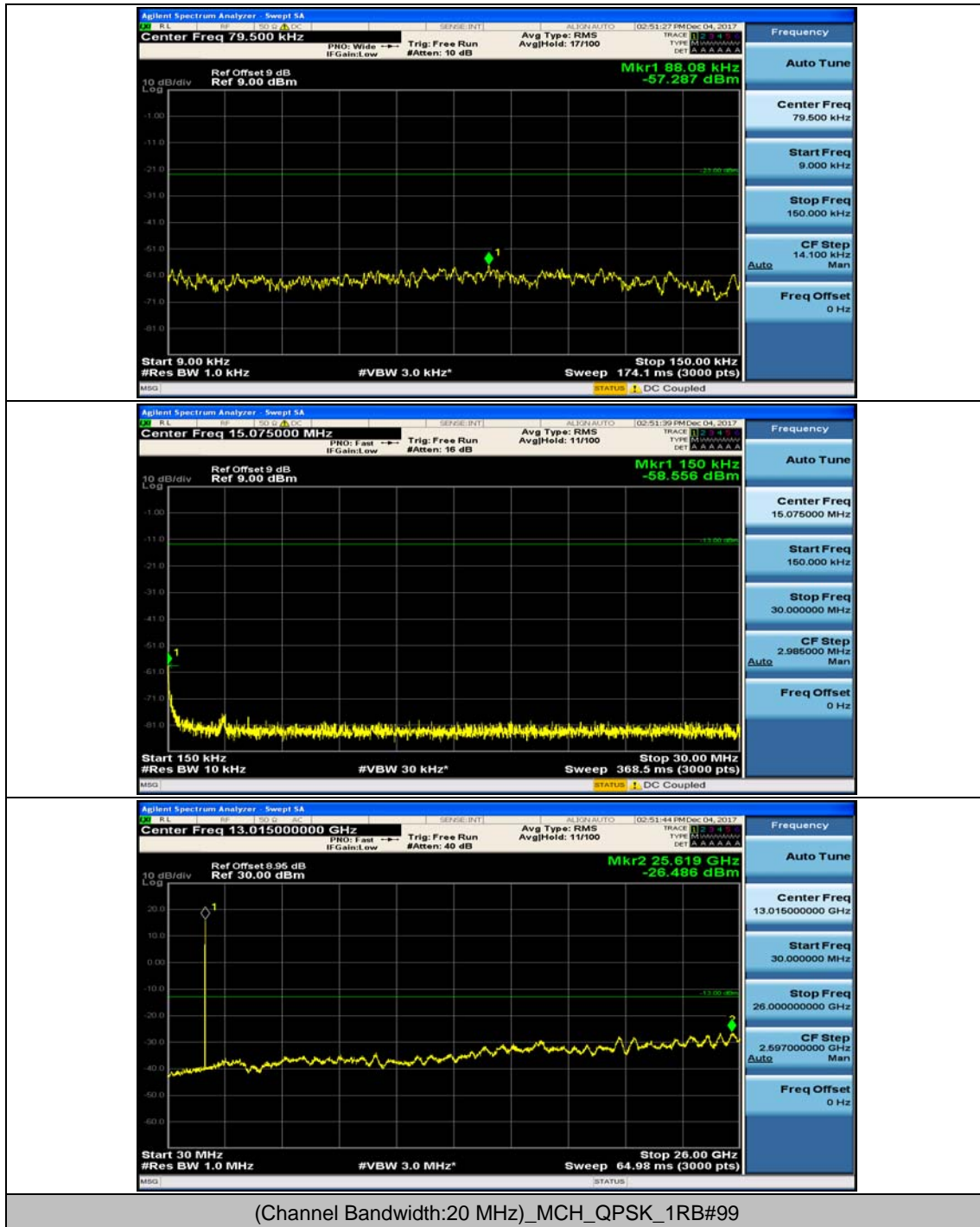


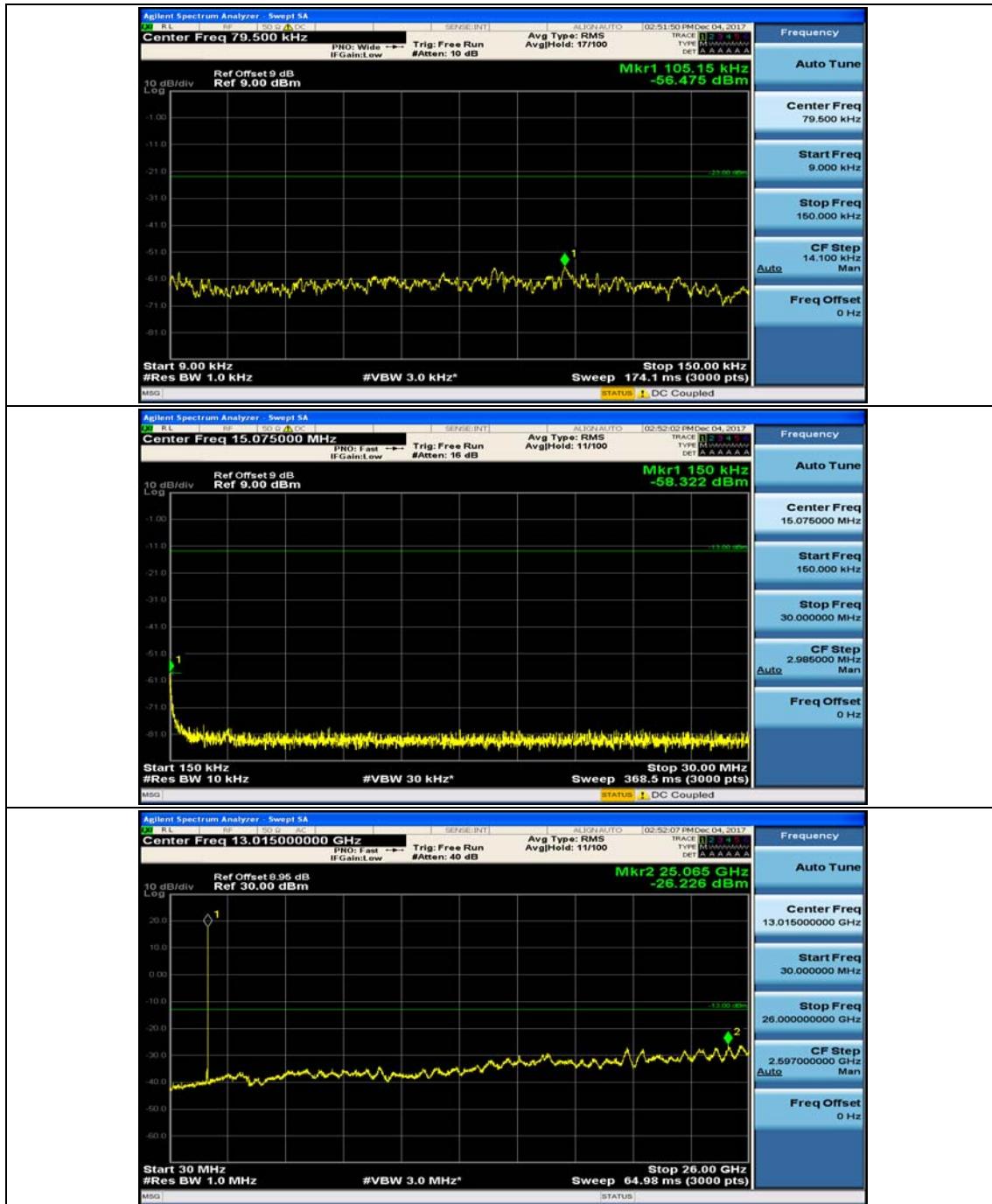


(Channel Bandwidth:20 MHz)\_MCH\_QPSK\_1RB#0



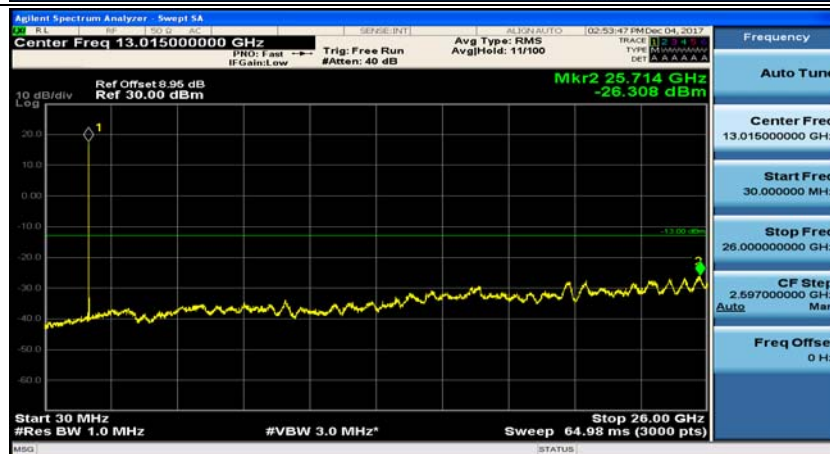
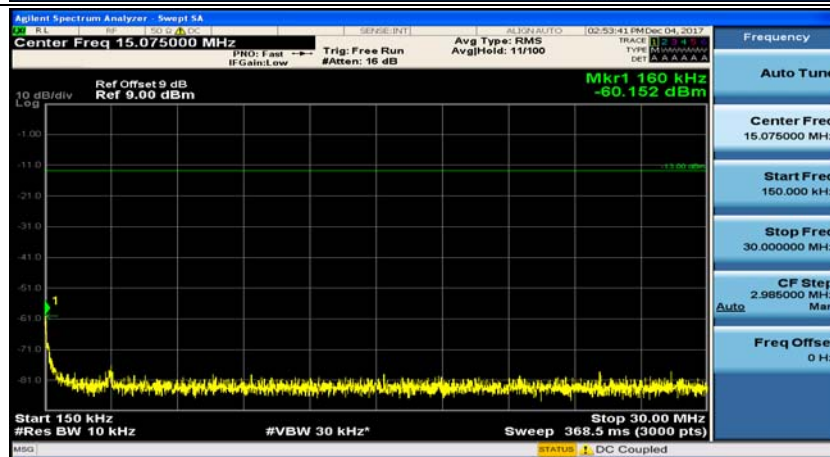
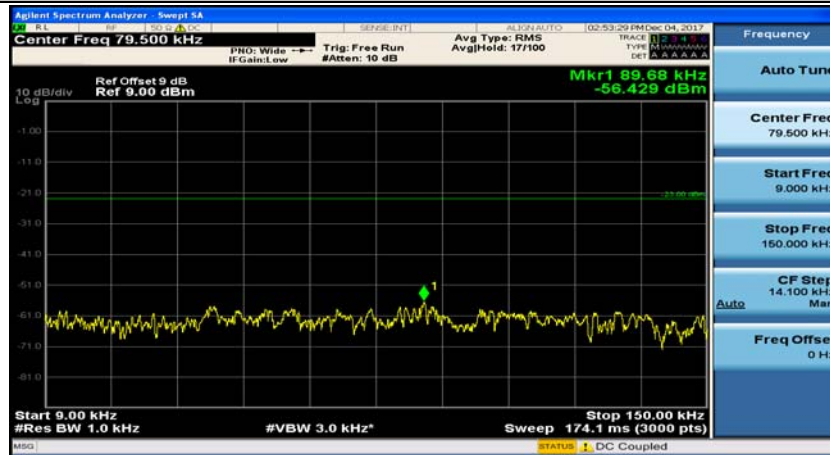
(Channel Bandwidth:20 MHz)\_MCH\_QPSK\_1RB#49



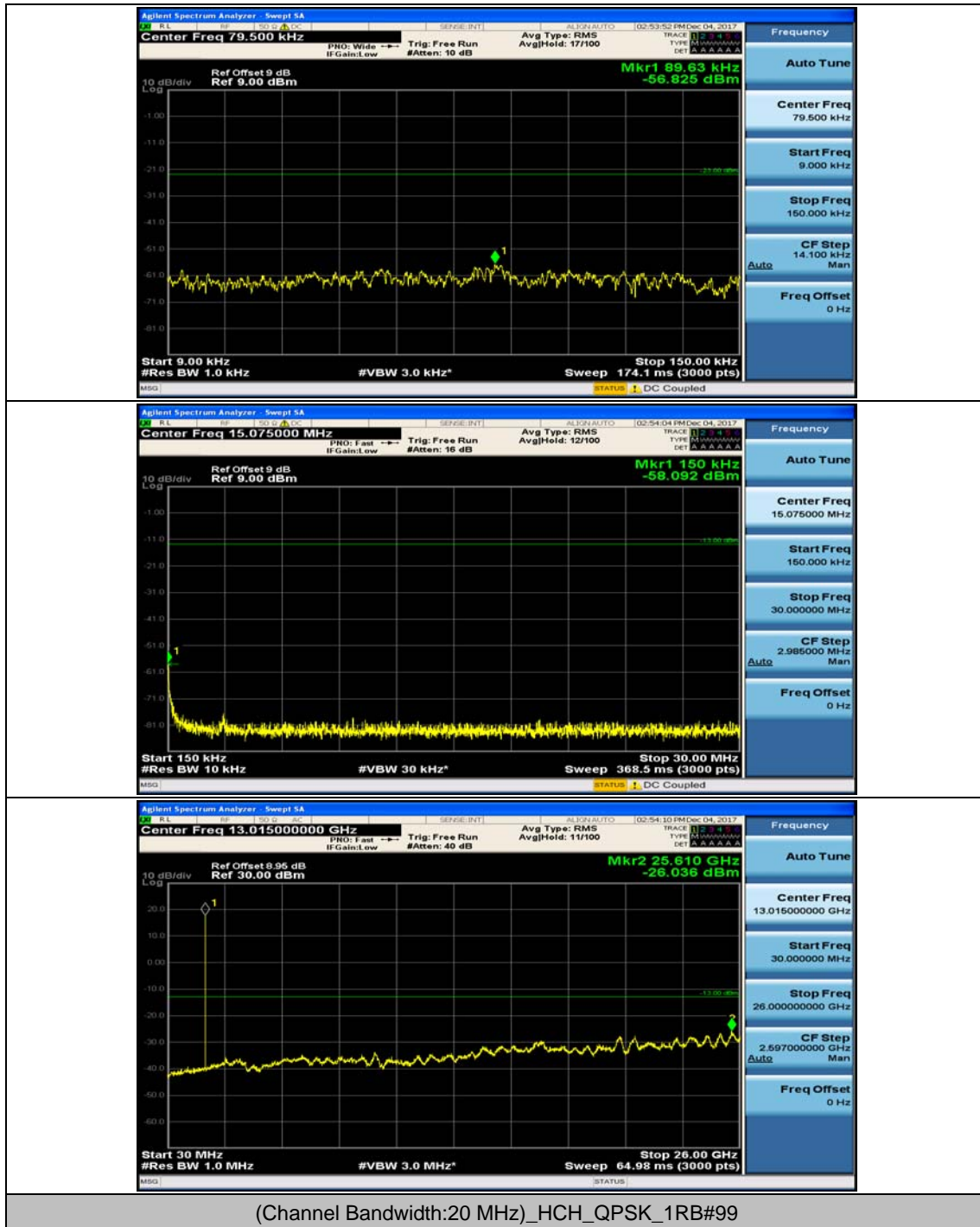


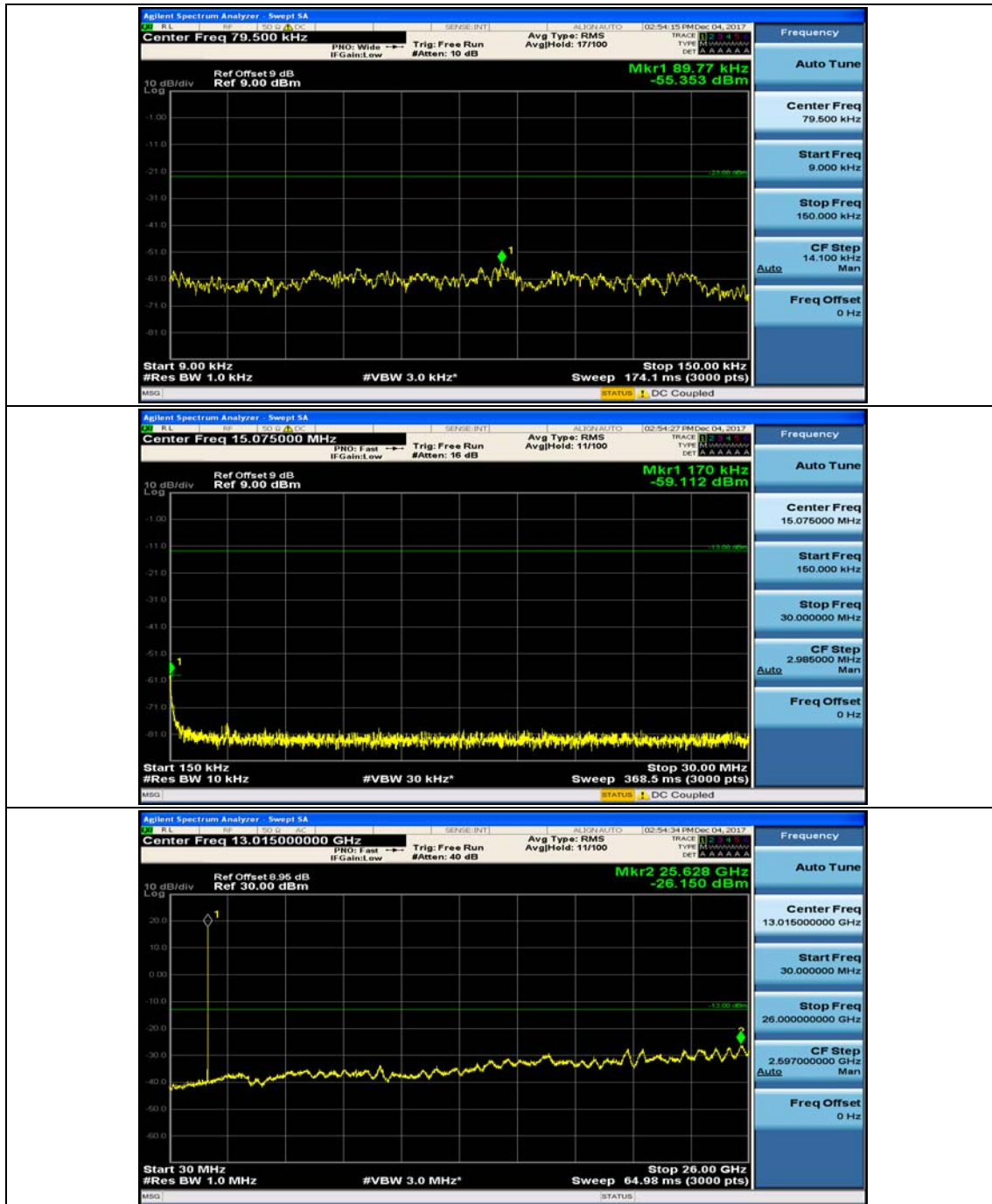


(Channel Bandwidth:20 MHz)\_HCH\_QPSK\_1RB#0

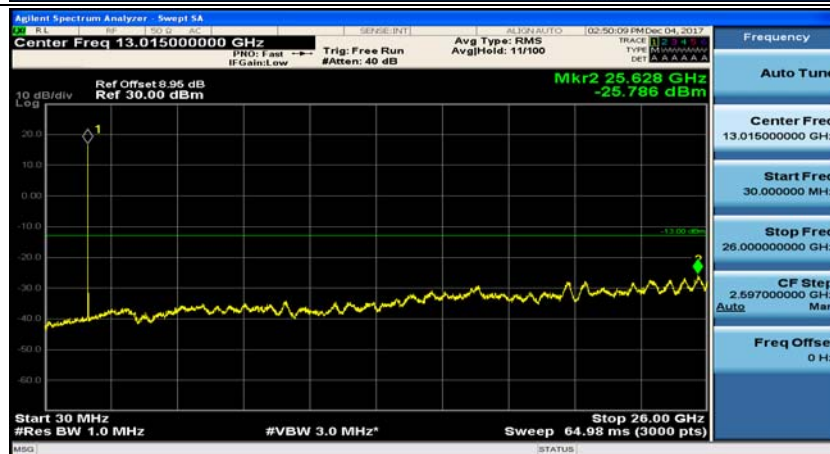
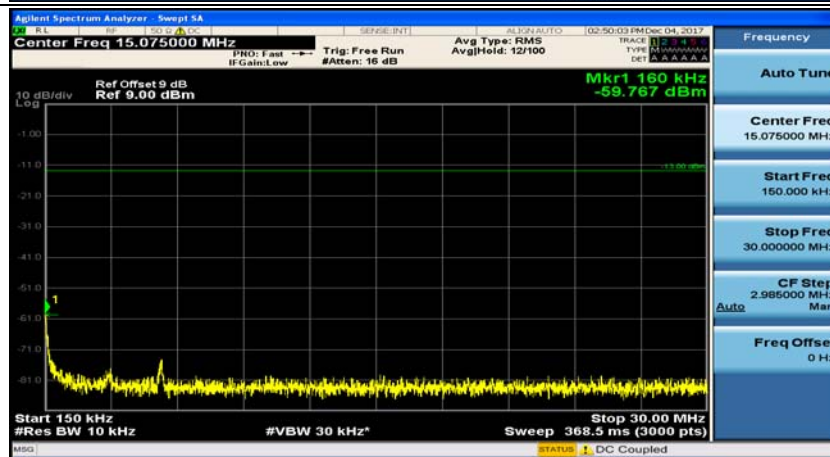


(Channel Bandwidth:20 MHz)\_HCH\_QPSK\_1RB#49

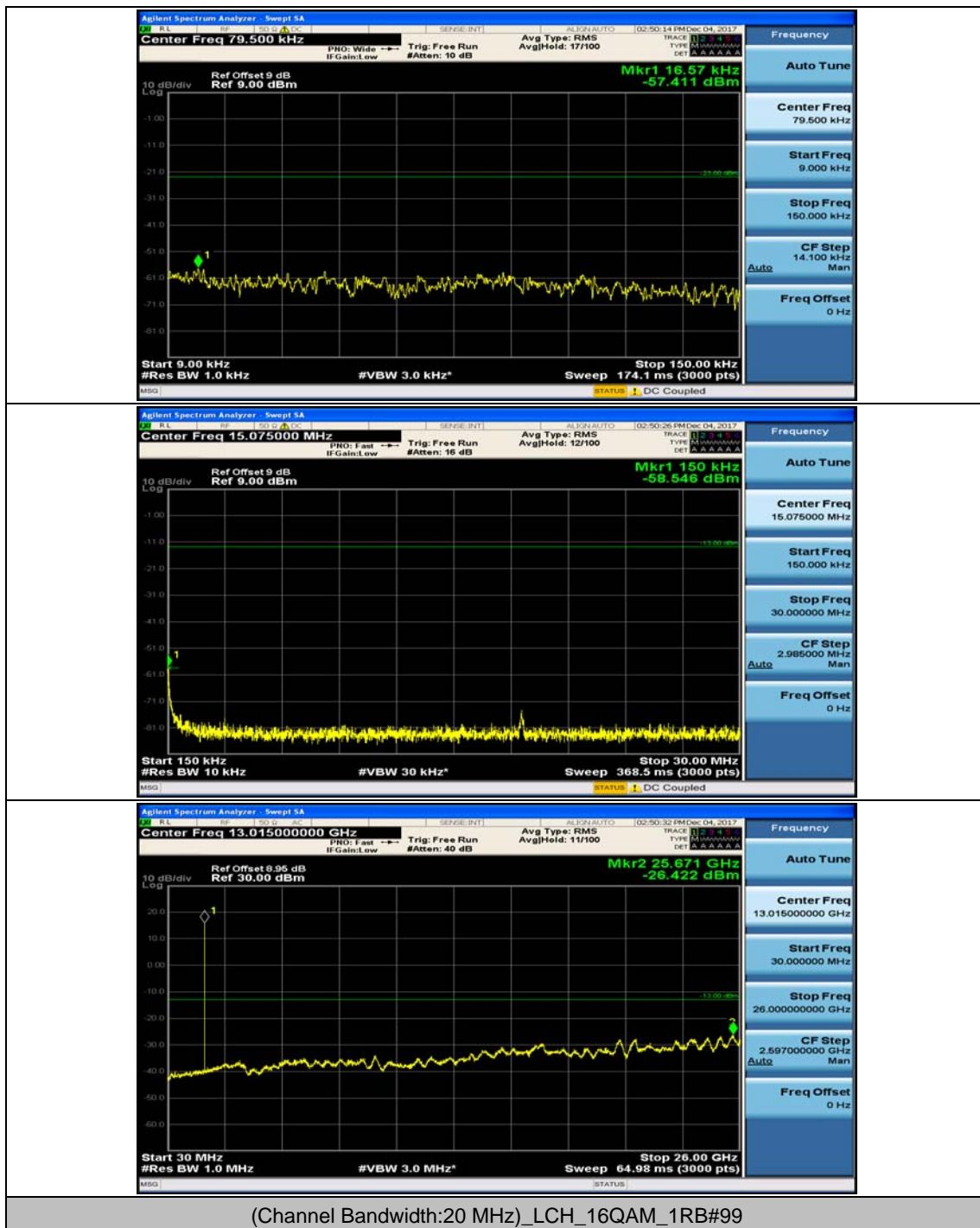




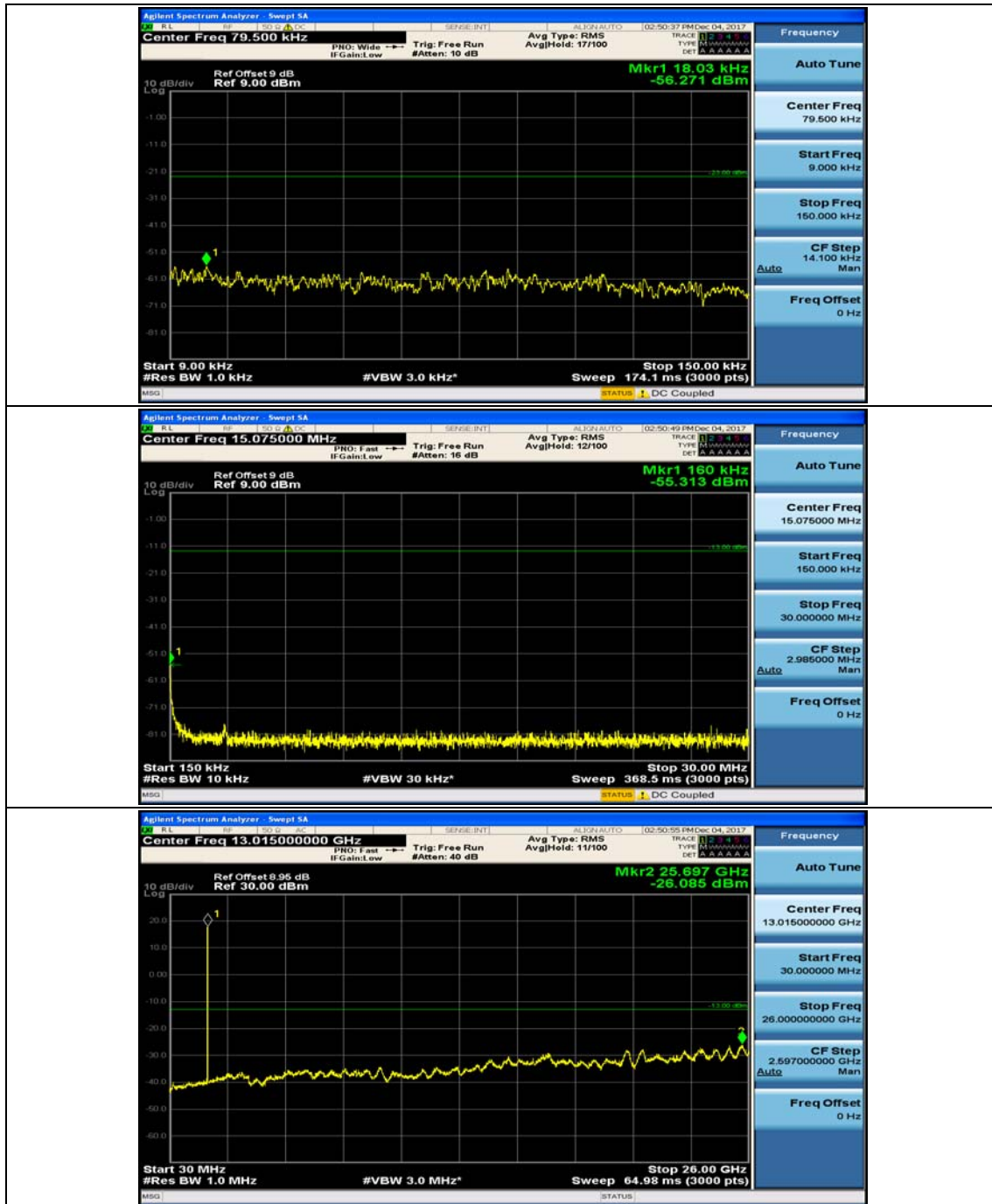
(Channel Bandwidth:20 MHz)\_LCH\_16QAM\_1RB#0



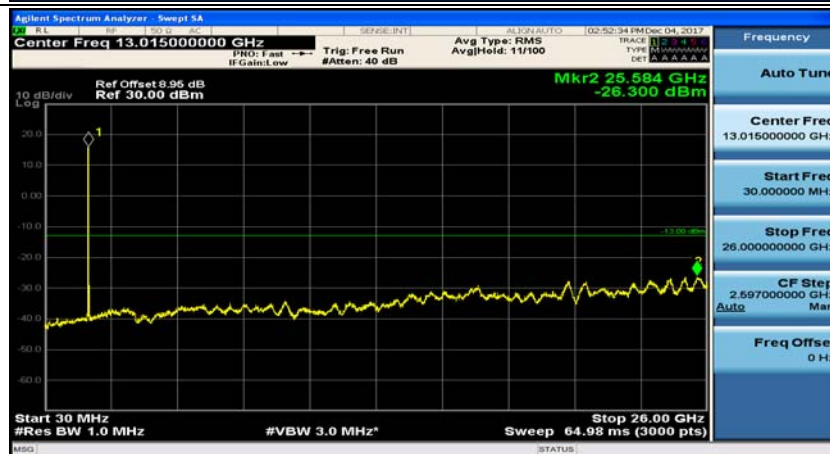
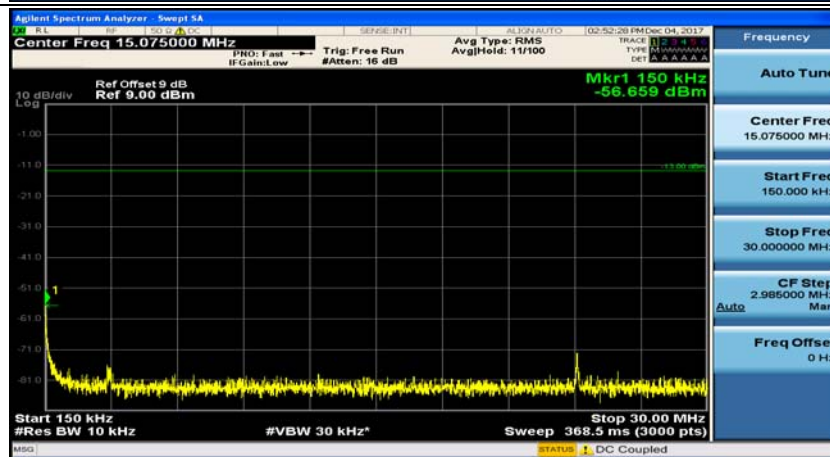
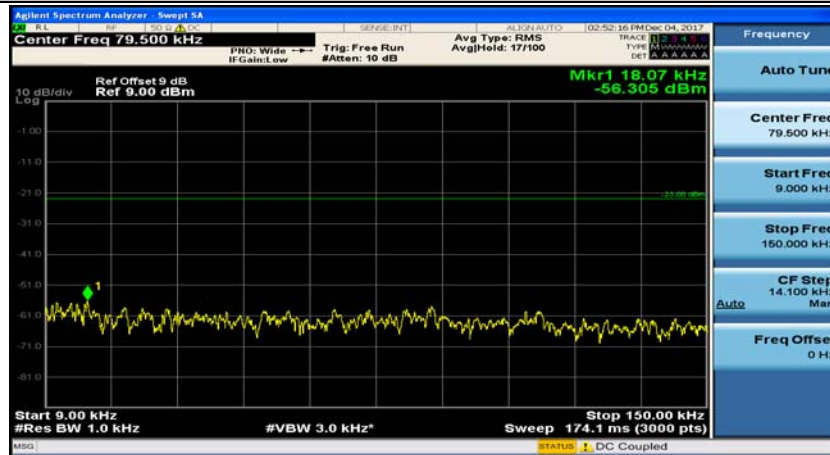
(Channel Bandwidth:20 MHz)\_LCH\_16QAM\_1RB#49



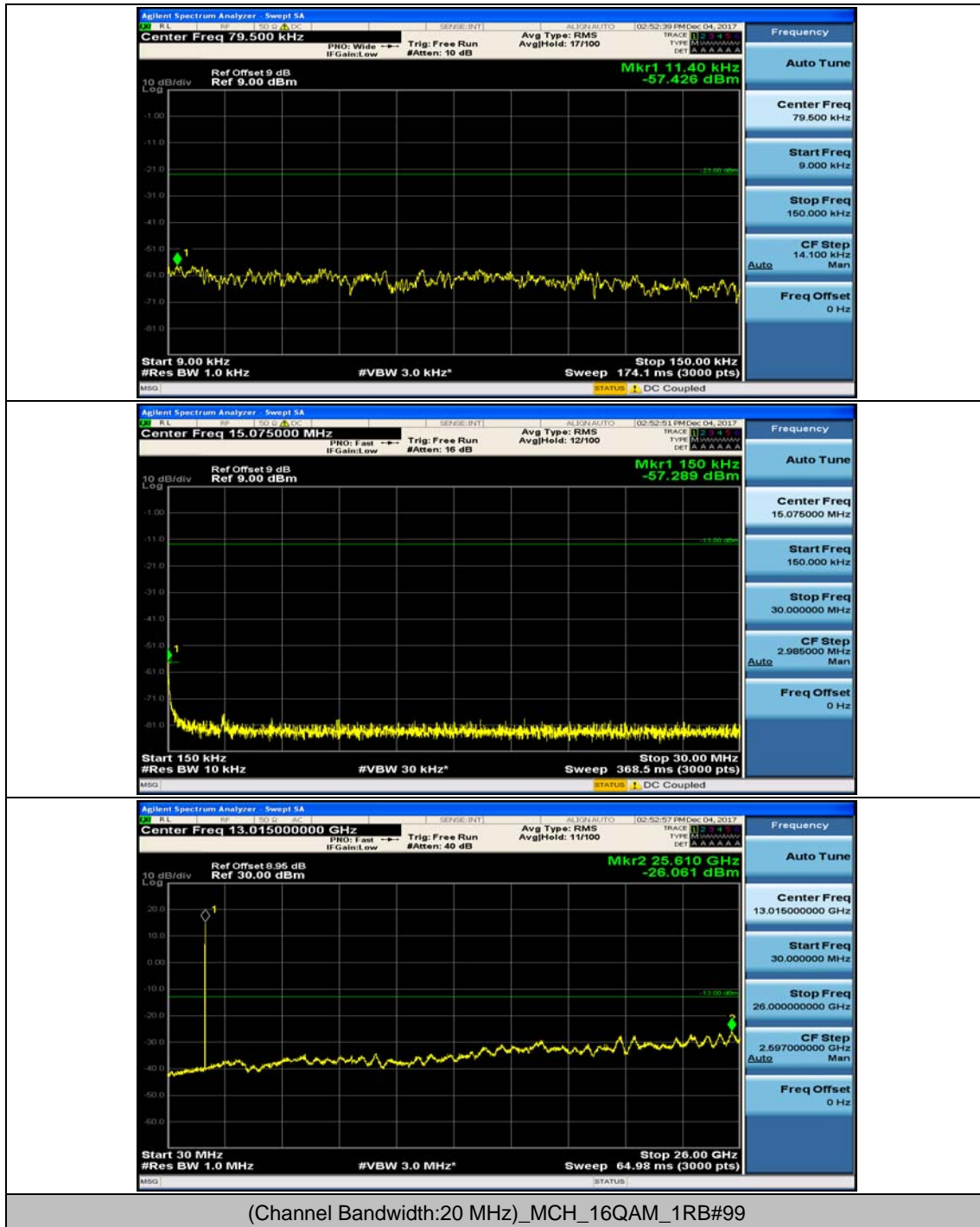


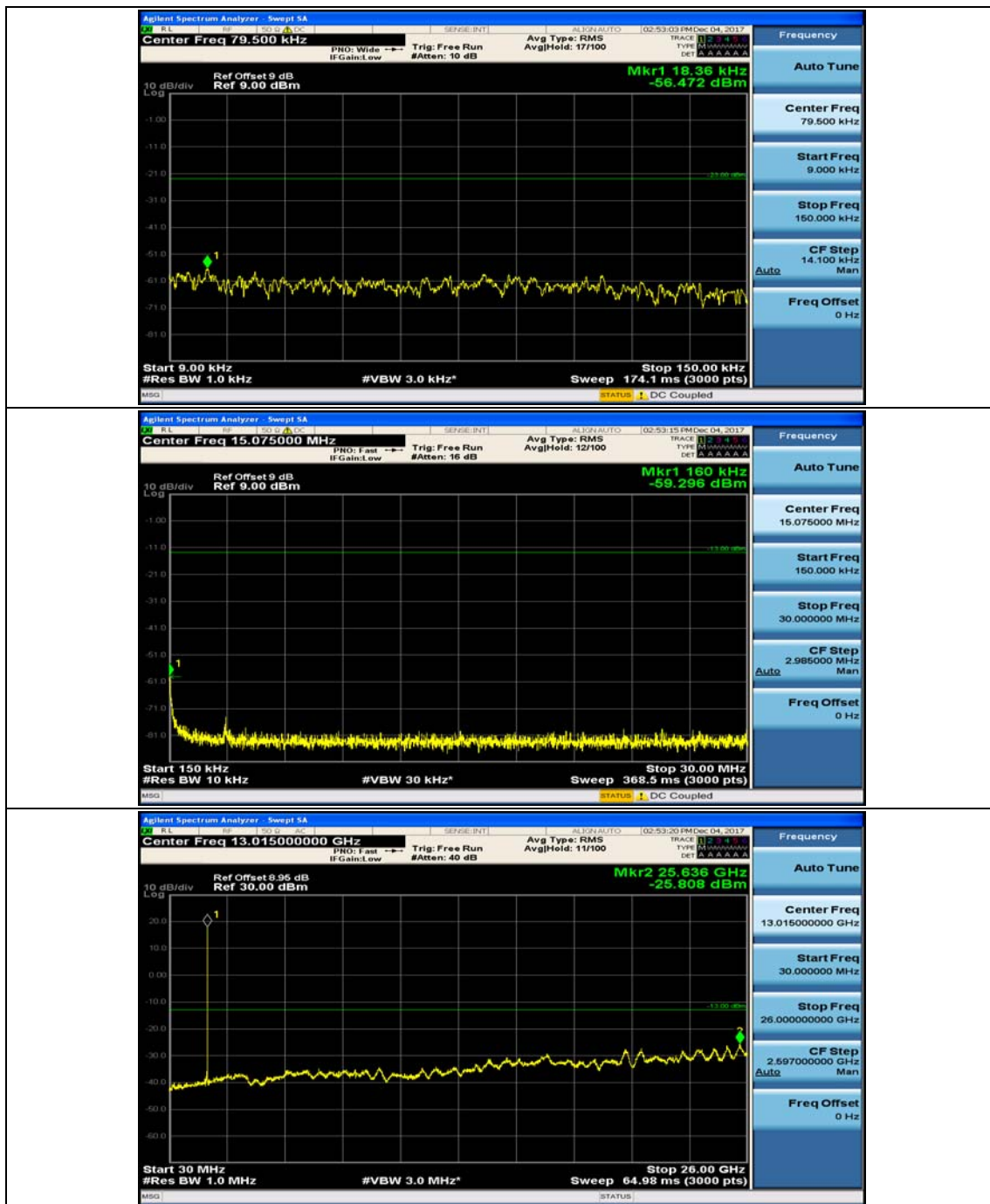


(Channel Bandwidth:20 MHz)\_MCH\_16QAM\_1RB#0

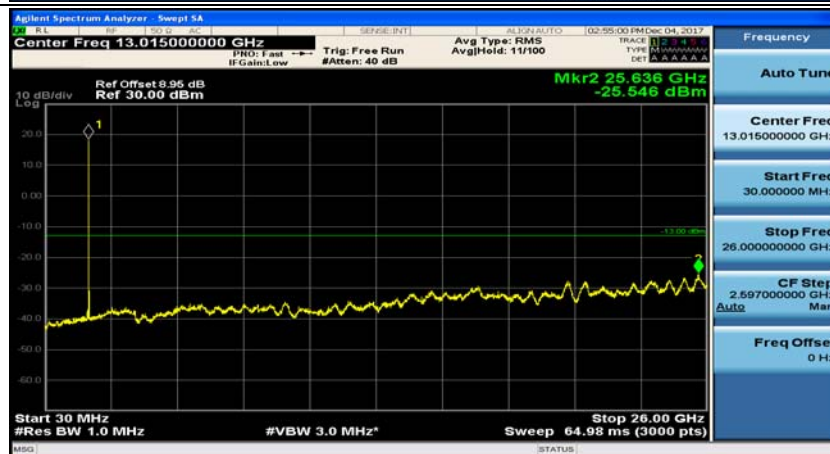
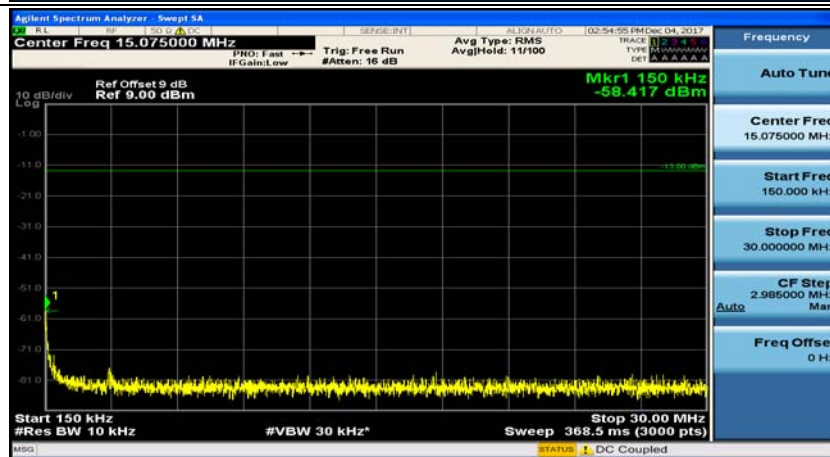


(Channel Bandwidth:20 MHz)\_MCH\_16QAM\_1RB#49



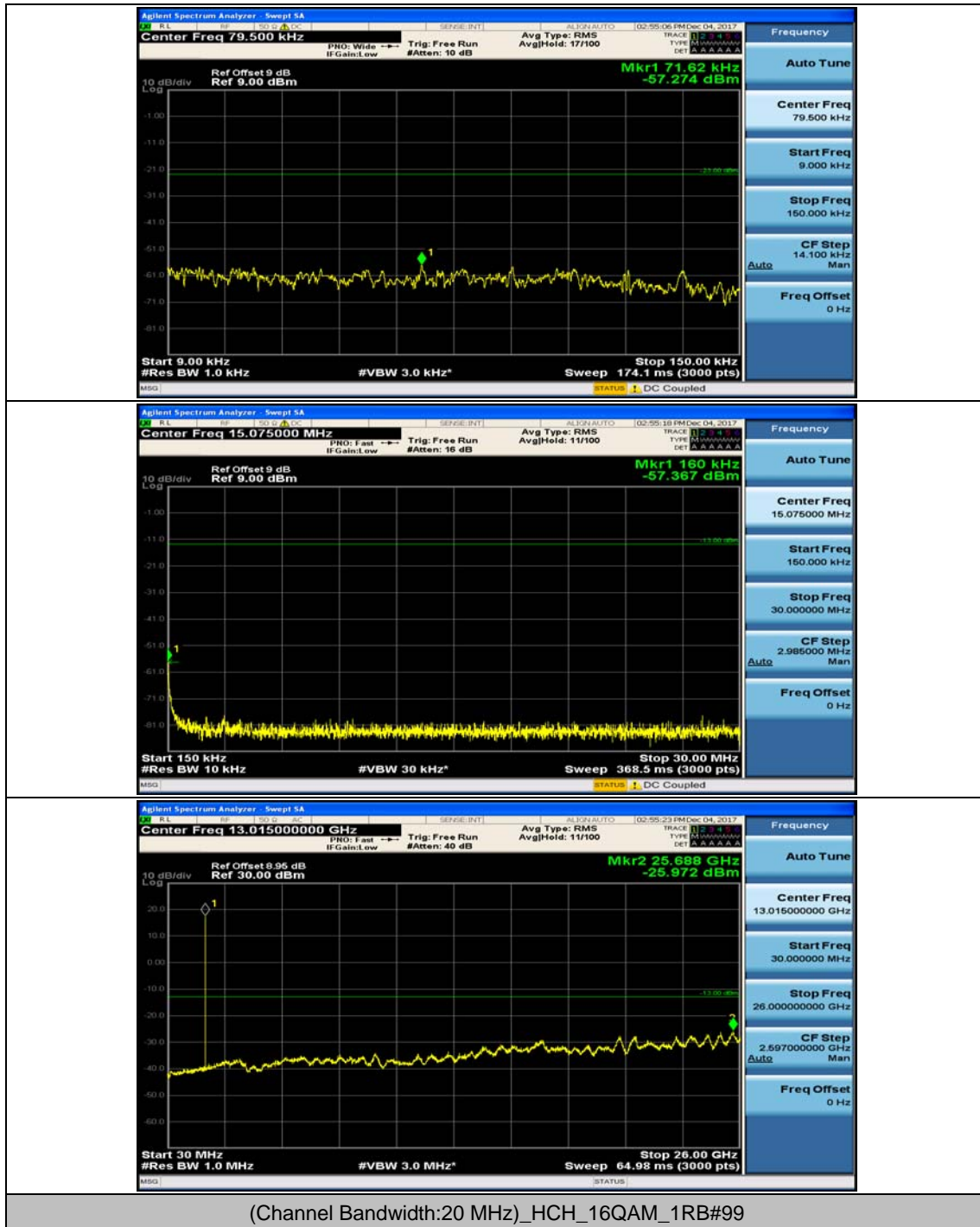


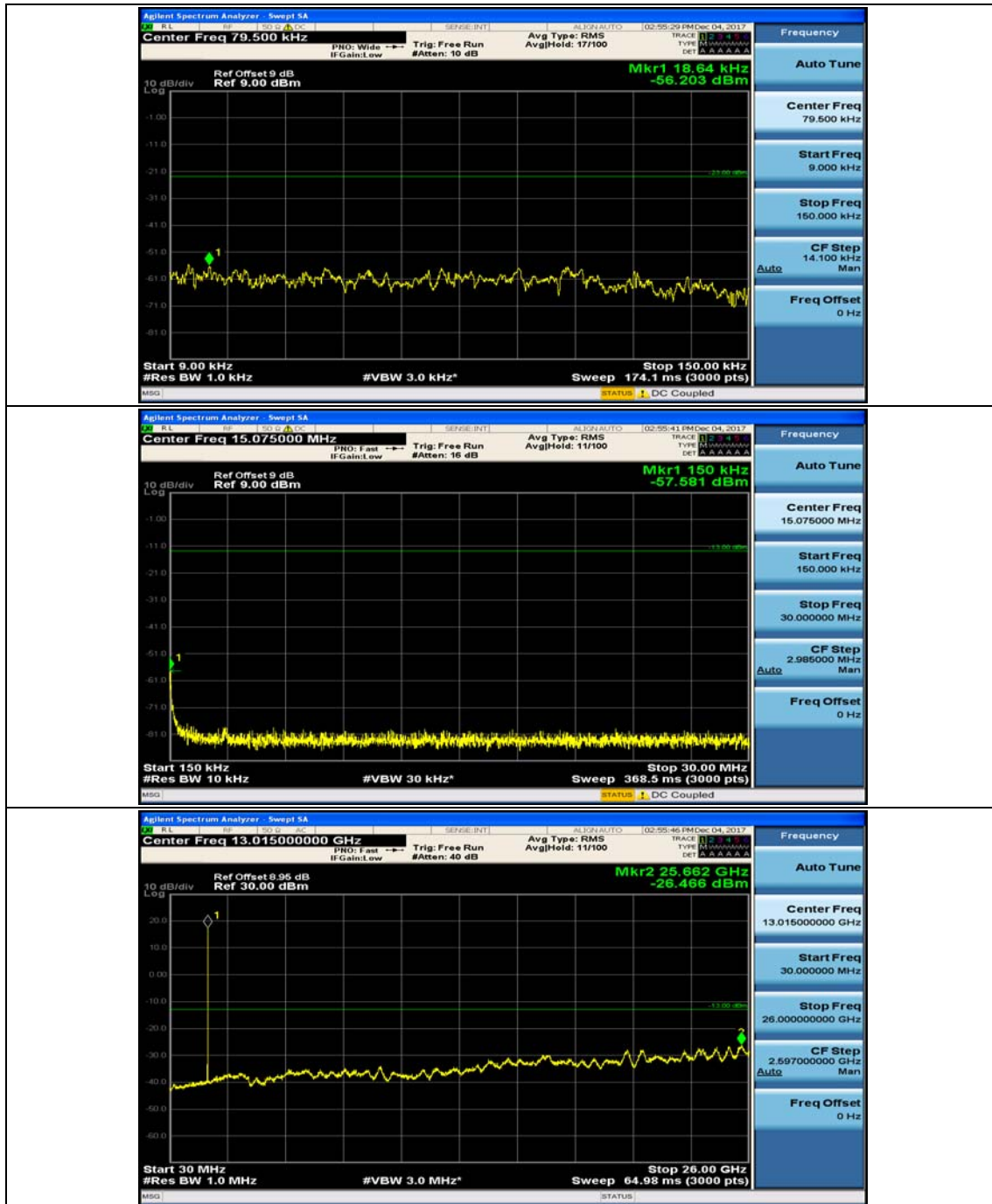
(Channel Bandwidth:20 MHz)\_HCH\_16QAM\_1RB#0



(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	0.001456	0.001456	± 2.5	PASS
		VN	TN	0.000433	0.000433	± 2.5	PASS
		VH	TN	-0.000883	-0.000883	± 2.5	PASS
	MCH	VL	TN	-0.000202	-0.000202	± 2.5	PASS
		VN	TN	0.001483	0.001483	± 2.5	PASS
		VH	TN	0.001131	0.001131	± 2.5	PASS
	HCH	VL	TN	0.002178	0.002178	± 2.5	PASS
		VN	TN	0.002428	0.002428	± 2.5	PASS
		VH	TN	-0.000068	-0.000068	± 2.5	PASS
16QAM	LCH	VL	TN	0.002099	0.002099	± 2.5	PASS
		VN	TN	0.000608	0.000608	± 2.5	PASS
		VH	TN	0.002180	0.002180	± 2.5	PASS
	MCH	VL	TN	0.001616	0.001616	± 2.5	PASS
		VN	TN	0.000398	0.000398	± 2.5	PASS
		VH	TN	0.000410	0.000410	± 2.5	PASS
	HCH	VL	TN	-0.000063	-0.000063	± 2.5	PASS
		VN	TN	0.000416	0.000416	± 2.5	PASS
		VH	TN	0.002645	0.002645	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	1.93	0.001128	± 2.5	PASS
		VN	-20	2.59	0.001514	± 2.5	PASS
		VN	-10	0.11	0.000064	± 2.5	PASS
		VN	0	0.53	0.000310	± 2.5	PASS
		VN	10	4.25	0.002484	± 2.5	PASS
		VN	20	1.77	0.001035	± 2.5	PASS
		VN	30	-0.53	-0.000310	± 2.5	PASS
		VN	40	-1.6	-0.000935	± 2.5	PASS
		VN	50	0.68	0.000397	± 2.5	PASS
	MCH	VN	-30	1.99	0.001149	± 2.5	PASS

		VN	-20	3.9	0.002251	± 2.5	PASS
		VN	-10	1.45	0.000837	± 2.5	PASS
		VN	0	4.86	0.002805	± 2.5	PASS
		VN	10	2.88	0.001662	± 2.5	PASS
		VN	20	-1.89	-0.001091	± 2.5	PASS
		VN	30	4.04	0.002332	± 2.5	PASS
		VN	40	0.47	0.000271	± 2.5	PASS
		VN	50	-1.15	-0.000664	± 2.5	PASS
	HCH	VN	-30	2.57	0.001465	± 2.5	PASS
		VN	-20	3.65	0.002081	± 2.5	PASS
		VN	-10	3.87	0.002206	± 2.5	PASS
		VN	0	3.64	0.002075	± 2.5	PASS
		VN	10	-1.77	-0.001009	± 2.5	PASS
		VN	20	-1.17	-0.000667	± 2.5	PASS
		VN	30	2.28	0.001300	± 2.5	PASS
		VN	40	-1.92	-0.001094	± 2.5	PASS
		VN	50	-1.27	-0.000724	± 2.5	PASS
16QAM	LCH	VN	-30	0.02	0.000012	± 2.5	PASS
		VN	-20	-0.07	-0.000041	± 2.5	PASS
		VN	-10	1.19	0.000696	± 2.5	PASS
		VN	0	1.36	0.000795	± 2.5	PASS
		VN	10	-0.3	-0.000175	± 2.5	PASS
		VN	20	4.39	0.002566	± 2.5	PASS
		VN	30	3.2	0.001871	± 2.5	PASS
		VN	40	-1.12	-0.000655	± 2.5	PASS
		VN	50	1.8	0.001052	± 2.5	PASS
	MCH	VN	-30	2.93	0.001670	± 2.5	PASS
		VN	-20	-1.49	-0.000849	± 2.5	PASS
		VN	-10	-1.27	-0.000724	± 2.5	PASS
		VN	0	1.59	0.000906	± 2.5	PASS
		VN	10	3.51	0.002001	± 2.5	PASS
		VN	20	2.65	0.001511	± 2.5	PASS
		VN	30	-1.39	-0.000792	± 2.5	PASS
		VN	40	-1.58	-0.000901	± 2.5	PASS
		VN	50	1.03	0.000587	± 2.5	PASS
	HCH	VN	-30	0.38	0.000217	± 2.5	PASS
		VN	-20	4.27	0.002434	± 2.5	PASS
		VN	-10	-0.53	-0.000302	± 2.5	PASS
		VN	0	-0.68	-0.000388	± 2.5	PASS
		VN	10	-1.39	-0.000792	± 2.5	PASS
		VN	20	4.73	0.002696	± 2.5	PASS

		VN	30	3.5	0.001995	± 2.5	PASS
		VN	40	2.89	0.001647	± 2.5	PASS
		VN	50	-0.06	-0.000034	± 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	1.58	0.000923	± 2.5	PASS
		VN	TN	-1	-0.000584	± 2.5	PASS
		VH	TN	-0.41	-0.000240	± 2.5	PASS
	MCH	VL	TN	-0.03	-0.000017	± 2.5	PASS
		VN	TN	4.98	0.002874	± 2.5	PASS
		VH	TN	-1.74	-0.001004	± 2.5	PASS
	HCH	VL	TN	2.44	0.001392	± 2.5	PASS
		VN	TN	2.61	0.001488	± 2.5	PASS
		VH	TN	2.26	0.001289	± 2.5	PASS
16QAM	LCH	VL	TN	-1.65	-0.000964	± 2.5	PASS
		VN	TN	-0.83	-0.000485	± 2.5	PASS
		VH	TN	1.96	0.001145	± 2.5	PASS
	MCH	VL	TN	-0.64	-0.000369	± 2.5	PASS
		VN	TN	3.89	0.002245	± 2.5	PASS
		VH	TN	3.58	0.002066	± 2.5	PASS
	HCH	VL	TN	0.63	0.000359	± 2.5	PASS
		VN	TN	3.8	0.002167	± 2.5	PASS
		VH	TN	2.62	0.001494	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	2.14	0.001250	± 2.5	PASS
		VN	-20	1.9	0.001110	± 2.5	PASS
		VN	-10	3.93	0.002296	± 2.5	PASS
		VN	0	2.83	0.001654	± 2.5	PASS
		VN	10	2.6	0.001519	± 2.5	PASS
		VN	20	-1.97	-0.001151	± 2.5	PASS
		VN	30	2.71	0.001583	± 2.5	PASS
		VN	40	2.01	0.001174	± 2.5	PASS
		VN	50	-1.28	-0.000748	± 2.5	PASS
	MCH	VN	-30	0.3	0.000173	± 2.5	PASS
		VN	-20	-1.84	-0.001062	± 2.5	PASS



		VN	-10	4.33	0.002499	± 2.5	PASS
		VN	0	0.11	0.000063	± 2.5	PASS
		VN	10	-1.18	-0.000681	± 2.5	PASS
		VN	20	1.78	0.001027	± 2.5	PASS
		VN	30	2.85	0.001645	± 2.5	PASS
		VN	40	4.86	0.002805	± 2.5	PASS
		VN	50	3.35	0.001934	± 2.5	PASS
	HCH	VN	-30	2.61	0.001488	± 2.5	PASS
		VN	-20	4.2	0.002395	± 2.5	PASS
		VN	-10	0.82	0.000468	± 2.5	PASS
		VN	0	2.11	0.001203	± 2.5	PASS
		VN	10	4.7	0.002680	± 2.5	PASS
		VN	20	-0.41	-0.000234	± 2.5	PASS
		VN	30	-0.63	-0.000359	± 2.5	PASS
		VN	40	-0.7	-0.000399	± 2.5	PASS
		VN	50	1.81	0.001032	± 2.5	PASS
16QAM	LCH	VN	-30	3.25	0.001876	± 2.5	PASS
		VN	-20	2.28	0.001316	± 2.5	PASS
		VN	-10	0.83	0.000479	± 2.5	PASS
		VN	0	3.32	0.001916	± 2.5	PASS
		VN	10	0.01	0.000006	± 2.5	PASS
		VN	20	4.49	0.002592	± 2.5	PASS
		VN	30	3.24	0.001870	± 2.5	PASS
		VN	40	3.35	0.001934	± 2.5	PASS
		VN	50	-1.65	-0.000952	± 2.5	PASS
	MCH	VN	-30	2.35	0.001340	± 2.5	PASS
		VN	-20	3.61	0.002059	± 2.5	PASS
		VN	-10	1.51	0.000861	± 2.5	PASS
		VN	0	0	0.000000	± 2.5	PASS
		VN	10	2.61	0.001488	± 2.5	PASS
		VN	20	-1.42	-0.000810	± 2.5	PASS
		VN	30	-1.81	-0.001032	± 2.5	PASS
		VN	40	2.92	0.001665	± 2.5	PASS
		VN	50	3.64	0.002076	± 2.5	PASS
	HCH	VN	-30	4.58	0.002612	± 2.5	PASS
		VN	-20	4.1	0.002338	± 2.5	PASS
		VN	-10	-1.89	-0.001078	± 2.5	PASS
		VN	0	1.03	0.000587	± 2.5	PASS
		VN	10	4.99	0.002846	± 2.5	PASS
		VN	20	-0.77	-0.000439	± 2.5	PASS
		VN	30	0.52	0.000297	± 2.5	PASS

		VN	40	1.01	0.000576	± 2.5	PASS
		VN	50	3.88	0.002213	± 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	2.32	0.001355	± 2.5	PASS
		VN	TN	3.98	0.002324	± 2.5	PASS
		VH	TN	2.93	0.001711	± 2.5	PASS
	MCH	VL	TN	4.29	0.002476	± 2.5	PASS
		VN	TN	3.77	0.002176	± 2.5	PASS
		VH	TN	-1.38	-0.000797	± 2.5	PASS
	HCH	VL	TN	-0.76	-0.000434	± 2.5	PASS
		VN	TN	2.57	0.001466	± 2.5	PASS
		VH	TN	1.2	0.000685	± 2.5	PASS
16QAM	LCH	VL	TN	4.01	0.002342	± 2.5	PASS
		VN	TN	-1.47	-0.000858	± 2.5	PASS
		VH	TN	-0.49	-0.000286	± 2.5	PASS
	MCH	VL	TN	4.1	0.002367	± 2.5	PASS
		VN	TN	4.56	0.002632	± 2.5	PASS
		VH	TN	2.92	0.001685	± 2.5	PASS
	HCH	VL	TN	1	0.000571	± 2.5	PASS
		VN	TN	0.31	0.000177	± 2.5	PASS
		VH	TN	2.06	0.001175	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	4.69	0.002739	± 2.5	PASS
		VN	-20	2.17	0.001267	± 2.5	PASS
		VN	-10	3.33	0.001945	± 2.5	PASS
		VN	0	-1.92	-0.001121	± 2.5	PASS
		VN	10	3.62	0.002114	± 2.5	PASS
		VN	20	2.59	0.001512	± 2.5	PASS
		VN	30	-1.1	-0.000642	± 2.5	PASS
		VN	40	4.92	0.002873	± 2.5	PASS
		VN	50	0.63	0.000368	± 2.5	PASS
	MCH	VN	-30	2.59	0.001495	± 2.5	PASS
		VN	-20	3.21	0.001853	± 2.5	PASS
		VN	-10	3.13	0.001807	± 2.5	PASS

		VN	0	0.14	0.000081	± 2.5	PASS
		VN	10	2.34	0.001351	± 2.5	PASS
		VN	20	-1.85	-0.001068	± 2.5	PASS
		VN	30	-1.31	-0.000756	± 2.5	PASS
		VN	40	2.58	0.001489	± 2.5	PASS
		VN	50	1.48	0.000854	± 2.5	PASS
	HCH	VN	-30	2.21	0.001261	± 2.5	PASS
		VN	-20	3.15	0.001651	± 2.5	PASS
		VN	-10	0.91	0.000477	± 2.5	PASS
		VN	0	0.73	0.000383	± 2.5	PASS
		VN	10	-1.6	-0.000839	± 2.5	PASS
		VN	20	-0.44	-0.000231	± 2.5	PASS
		VN	30	1.49	0.000781	± 2.5	PASS
		VN	40	2.54	0.001332	± 2.5	PASS
		VN	50	1.44	0.000755	± 2.5	PASS
16QAM	LCH	VN	-30	-1.51	-0.000872	± 2.5	PASS
		VN	-20	1.79	0.001033	± 2.5	PASS
		VN	-10	1.03	0.000595	± 2.5	PASS
		VN	0	-1.51	-0.000872	± 2.5	PASS
		VN	10	-1.88	-0.001085	± 2.5	PASS
		VN	20	2.91	0.001680	± 2.5	PASS
		VN	30	-0.58	-0.000335	± 2.5	PASS
		VN	40	2.97	0.001714	± 2.5	PASS
		VN	50	1.95	0.001126	± 2.5	PASS
	MCH	VN	-30	4.89	0.002790	± 2.5	PASS
		VN	-20	-1.86	-0.001061	± 2.5	PASS
		VN	-10	-0.83	-0.000474	± 2.5	PASS
		VN	0	4.24	0.002419	± 2.5	PASS
		VN	10	-1.38	-0.000787	± 2.5	PASS
		VN	20	-0.34	-0.000194	± 2.5	PASS
		VN	30	1.3	0.000742	± 2.5	PASS
		VN	40	-0.73	-0.000417	± 2.5	PASS
		VN	50	1.01	0.000576	± 2.5	PASS
	HCH	VN	-30	2.52	0.001321	± 2.5	PASS
		VN	-20	-1.69	-0.000886	± 2.5	PASS
		VN	-10	0.21	0.000110	± 2.5	PASS
		VN	0	0.33	0.000173	± 2.5	PASS
		VN	10	2.75	0.001442	± 2.5	PASS
		VN	20	5	0.002621	± 2.5	PASS
		VN	30	3.36	0.001761	± 2.5	PASS
		VN	40	-1.71	-0.000896	± 2.5	PASS

		VN	50	-1.26	-0.000661	± 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	4.03	0.002350	± 2.5	PASS
		VN	TN	0.38	0.000222	± 2.5	PASS
		VH	TN	2.57	0.001499	± 2.5	PASS
	MCH	VL	TN	1.29	0.000745	± 2.5	PASS
		VN	TN	1.06	0.000612	± 2.5	PASS
		VH	TN	4.1	0.002367	± 2.5	PASS
	HCH	VL	TN	2.1	0.001200	± 2.5	PASS
		VN	TN	4.34	0.002480	± 2.5	PASS
		VH	TN	-1.14	-0.000651	± 2.5	PASS
16QAM	LCH	VL	TN	3.91	0.002280	± 2.5	PASS
		VN	TN	4	0.002332	± 2.5	PASS
		VH	TN	-1.97	-0.001149	± 2.5	PASS
	MCH	VL	TN	4.47	0.002580	± 2.5	PASS
		VN	TN	4.1	0.002367	± 2.5	PASS
		VH	TN	2.97	0.001714	± 2.5	PASS
	HCH	VL	TN	4.99	0.002851	± 2.5	PASS
		VN	TN	-0.71	-0.000406	± 2.5	PASS
		VH	TN	4.52	0.002583	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
16QAM	LCH	VN	-30	-0.66	-0.000385	± 2.5	PASS
		VN	-20	2	0.001166	± 2.5	PASS
		VN	-10	-1.61	-0.000939	± 2.5	PASS
		VN	0	-1.36	-0.000793	± 2.5	PASS
		VN	10	2.81	0.001638	± 2.5	PASS
		VN	20	3.03	0.001767	± 2.5	PASS
		VN	30	3.46	0.002017	± 2.5	PASS
		VN	40	-0.08	-0.000047	± 2.5	PASS
		VN	50	0.29	0.000169	± 2.5	PASS
	MCH	VN	-30	3.94	0.002274	± 2.5	PASS
		VN	-20	-1.3	-0.000750	± 2.5	PASS
		VN	-10	0.6	0.000346	± 2.5	PASS
		VN	0	0.17	0.000098	± 2.5	PASS

		VN	10	4.97	0.002869	± 2.5	PASS
		VN	20	2.17	0.001253	± 2.5	PASS
		VN	30	-1.24	-0.000716	± 2.5	PASS
		VN	40	4.23	0.002442	± 2.5	PASS
		VN	50	2.46	0.001420	± 2.5	PASS
	HCH	VN	-30	1.6	0.000914	± 2.5	PASS
		VN	-20	2.25	0.001286	± 2.5	PASS
		VN	-10	0.99	0.000566	± 2.5	PASS
		VN	0	-0.27	-0.000154	± 2.5	PASS
		VN	10	2.17	0.001240	± 2.5	PASS
		VN	20	-0.99	-0.000566	± 2.5	PASS
		VN	30	4.72	0.002697	± 2.5	PASS
		VN	40	-0.01	-0.000006	± 2.5	PASS
		VN	50	-0.37	-0.000211	± 2.5	PASS
		VN	-30	1.21	0.000698	± 2.5	PASS
QPSK	LCH	VN	-20	3.15	0.001818	± 2.5	PASS
		VN	-10	-1.23	-0.000710	± 2.5	PASS
		VN	0	2.38	0.001374	± 2.5	PASS
		VN	10	-1.81	-0.001045	± 2.5	PASS
		VN	20	2.37	0.001368	± 2.5	PASS
		VN	30	4.82	0.002782	± 2.5	PASS
		VN	40	1.07	0.000618	± 2.5	PASS
		VN	50	-0.3	-0.000173	± 2.5	PASS
	MCH	VN	-30	-0.63	-0.000360	± 2.5	PASS
		VN	-20	2.37	0.001354	± 2.5	PASS
		VN	-10	3.2	0.001829	± 2.5	PASS
		VN	0	-0.17	-0.000097	± 2.5	PASS
		VN	10	4.79	0.002737	± 2.5	PASS
		VN	20	0.69	0.000394	± 2.5	PASS
		VN	30	3.17	0.001811	± 2.5	PASS
		VN	40	3.99	0.002280	± 2.5	PASS
		VN	50	-0.28	-0.000160	± 2.5	PASS
	HCH	VN	-30	0.65	0.000371	± 2.5	PASS
		VN	-20	0.41	0.000234	± 2.5	PASS
		VN	-10	4.15	0.002371	± 2.5	PASS
		VN	0	-1.63	-0.000931	± 2.5	PASS
		VN	10	2.24	0.001280	± 2.5	PASS
		VN	20	3.69	0.002109	± 2.5	PASS
		VN	30	-1.53	-0.000874	± 2.5	PASS
		VN	40	2.73	0.001560	± 2.5	PASS
		VN	50	-1.42	-0.000811	± 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	0.000099	0.000099	± 2.5	PASS
		VN	TN	-0.000594	-0.000594	± 2.5	PASS
		VH	TN	0.001392	0.001392	± 2.5	PASS
	MCH	VL	TN	0.001887	0.001887	± 2.5	PASS
		VN	TN	0.002442	0.002442	± 2.5	PASS
		VH	TN	0.001062	0.001062	± 2.5	PASS
	HCH	VL	TN	0.000258	0.000258	± 2.5	PASS
		VN	TN	0.002020	0.002020	± 2.5	PASS
		VH	TN	-0.000126	-0.000126	± 2.5	PASS
16QAM	LCH	VL	TN	0.001974	0.001974	± 2.5	PASS
		VN	TN	-0.000413	-0.000413	± 2.5	PASS
		VH	TN	0.000512	0.000512	± 2.5	PASS
	MCH	VL	TN	0.002609	0.002609	± 2.5	PASS
		VN	TN	0.000156	0.000156	± 2.5	PASS
		VH	TN	0.002378	0.002378	± 2.5	PASS
	HCH	VL	TN	0.002426	0.002426	± 2.5	PASS
		VN	TN	0.000670	0.000670	± 2.5	PASS
		VH	TN	0.000458	0.000458	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	0.001491	0.001491	± 2.5	PASS
		VN	-20	0.002603	0.002603	± 2.5	PASS
		VN	-10	-0.000565	-0.000565	± 2.5	PASS
		VN	0	-0.000838	-0.000838	± 2.5	PASS
		VN	10	0.002684	0.002684	± 2.5	PASS
		VN	20	0.000967	0.000967	± 2.5	PASS
		VN	30	0.002702	0.002702	± 2.5	PASS
		VN	40	-0.000076	-0.000076	± 2.5	PASS
		VN	50	-0.000093	-0.000093	± 2.5	PASS
	MCH	VN	-30	0.001489	0.001489	± 2.5	PASS
		VN	-20	0.002240	0.002240	± 2.5	PASS
		VN	-10	-0.000398	-0.000398	± 2.5	PASS
		VN	0	0.001518	0.001518	± 2.5	PASS
		VN	10	0.002528	0.002528	± 2.5	PASS
		VN	20	0.001506	0.001506	± 2.5	PASS

		VN	30	0.001760	0.001760	± 2.5	PASS
		VN	40	0.000629	0.000629	± 2.5	PASS
		VN	50	0.002274	0.002274	± 2.5	PASS
	HCH	VN	-30	0.001568	0.001568	± 2.5	PASS
		VN	-20	-0.000137	-0.000137	± 2.5	PASS
		VN	-10	0.001780	0.001780	± 2.5	PASS
		VN	0	0.002220	0.002220	± 2.5	PASS
		VN	10	-0.000406	-0.000406	± 2.5	PASS
		VN	20	0.000023	0.000023	± 2.5	PASS
		VN	30	0.002649	0.002649	± 2.5	PASS
		VN	40	0.001654	0.001654	± 2.5	PASS
		VN	50	0.001247	0.001247	± 2.5	PASS
16QAM	LCH	VN	-30	0.000964	0.000964	± 2.5	PASS
		VN	-20	0.001772	0.001772	± 2.5	PASS
		VN	-10	0.002193	0.002193	± 2.5	PASS
		VN	0	0.000519	0.000519	± 2.5	PASS
		VN	10	0.000214	0.000214	± 2.5	PASS
		VN	20	-0.000618	-0.000618	± 2.5	PASS
		VN	30	0.000670	0.000670	± 2.5	PASS
		VN	40	-0.000491	-0.000491	± 2.5	PASS
		VN	50	-0.000035	-0.000035	± 2.5	PASS
	MCH	VN	-30	0.000761	0.000761	± 2.5	PASS
		VN	-20	0.001751	0.001751	± 2.5	PASS
		VN	-10	-0.001024	-0.001024	± 2.5	PASS
		VN	0	-0.000996	-0.000996	± 2.5	PASS
		VN	10	0.001516	0.001516	± 2.5	PASS
		VN	20	-0.000315	-0.000315	± 2.5	PASS
		VN	30	0.000086	0.000086	± 2.5	PASS
		VN	40	-0.000544	-0.000544	± 2.5	PASS
		VN	50	-0.000498	-0.000498	± 2.5	PASS
	HCH	VN	-30	0.002758	0.002758	± 2.5	PASS
		VN	-20	0.001190	0.001190	± 2.5	PASS
		VN	-10	0.000286	0.000286	± 2.5	PASS
		VN	0	0.002066	0.002066	± 2.5	PASS
		VN	10	0.002472	0.002472	± 2.5	PASS
		VN	20	-0.000143	-0.000143	± 2.5	PASS
		VN	30	0.000401	0.000401	± 2.5	PASS
		VN	40	0.000670	0.000670	± 2.5	PASS
		VN	50	0.002861	0.002861	± 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	0.002855	0.002855	± 2.5	PASS
		VN	TN	-0.000517	-0.000517	± 2.5	PASS
		VH	TN	0.001622	0.001622	± 2.5	PASS
	MCH	VL	TN	-0.000554	-0.000554	± 2.5	PASS
		VN	TN	-0.000364	-0.000364	± 2.5	PASS
		VH	TN	0.002153	0.002153	± 2.5	PASS
	HCH	VL	TN	-0.001135	-0.001135	± 2.5	PASS
		VN	TN	-0.000980	-0.000980	± 2.5	PASS
		VH	TN	-0.000350	-0.000350	± 2.5	PASS
16QAM	LCH	VL	TN	0.002326	0.002326	± 2.5	PASS
		VN	TN	-0.000384	-0.000384	± 2.5	PASS
		VH	TN	-0.000657	-0.000657	± 2.5	PASS
	MCH	VL	TN	0.000797	0.000797	± 2.5	PASS
		VN	TN	0.002788	0.002788	± 2.5	PASS
		VH	TN	0.002805	0.002805	± 2.5	PASS
	HCH	VL	TN	0.000819	0.000819	± 2.5	PASS
		VN	TN	-0.000189	-0.000189	± 2.5	PASS
		VH	TN	0.000178	0.000178	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-1.03	-0.000599	± 2.5	PASS
		VN	-20	4.16	0.002419	± 2.5	PASS
		VN	-10	-1.18	-0.000686	± 2.5	PASS
		VN	0	1.33	0.000773	± 2.5	PASS
		VN	10	-0.88	-0.000512	± 2.5	PASS
		VN	20	3.1	0.001802	± 2.5	PASS
		VN	30	2.23	0.001297	± 2.5	PASS
		VN	40	-0.86	-0.000500	± 2.5	PASS
		VN	50	1.62	0.000942	± 2.5	PASS
	MCH	VN	-30	4.87	0.002811	± 2.5	PASS
		VN	-20	-0.96	-0.000554	± 2.5	PASS
		VN	-10	1.78	0.001027	± 2.5	PASS
		VN	0	3.95	0.002280	± 2.5	PASS
		VN	10	3.26	0.001882	± 2.5	PASS
		VN	20	-1.45	-0.000837	± 2.5	PASS

		VN	30	2.14	0.001235	± 2.5	PASS
		VN	40	0.92	0.000531	± 2.5	PASS
		VN	50	0.14	0.000081	± 2.5	PASS
	HCH	VN	-30	1.12	0.000642	± 2.5	PASS
		VN	-20	-0.89	-0.000510	± 2.5	PASS
		VN	-10	-1	-0.000573	± 2.5	PASS
		VN	0	2.33	0.001335	± 2.5	PASS
		VN	10	3.5	0.002006	± 2.5	PASS
		VN	20	0.12	0.000069	± 2.5	PASS
		VN	30	2.46	0.001410	± 2.5	PASS
		VN	40	0.63	0.000361	± 2.5	PASS
		VN	50	2.52	0.001444	± 2.5	PASS
16QAM	LCH	VN	-30	4.13	0.002384	± 2.5	PASS
		VN	-20	1.41	0.000814	± 2.5	PASS
		VN	-10	4.93	0.002846	± 2.5	PASS
		VN	0	-0.95	-0.000548	± 2.5	PASS
		VN	10	2.64	0.001524	± 2.5	PASS
		VN	20	4.34	0.002505	± 2.5	PASS
		VN	30	0.04	0.000023	± 2.5	PASS
		VN	40	4.31	0.002488	± 2.5	PASS
		VN	50	3.95	0.002280	± 2.5	PASS
	MCH	VN	-30	1.39	0.000797	± 2.5	PASS
		VN	-20	0.54	0.000309	± 2.5	PASS
		VN	-10	1.19	0.000682	± 2.5	PASS
		VN	0	4.84	0.002774	± 2.5	PASS
		VN	10	1.26	0.000722	± 2.5	PASS
		VN	20	2.1	0.001203	± 2.5	PASS
		VN	30	1.12	0.000642	± 2.5	PASS
		VN	40	1.49	0.000854	± 2.5	PASS
		VN	50	0.7	0.000401	± 2.5	PASS
	HCH	VN	-30	-1.18	-0.000676	± 2.5	PASS
		VN	-20	-1.55	-0.000888	± 2.5	PASS
		VN	-10	2.23	0.001278	± 2.5	PASS
		VN	0	3.16	0.001811	± 2.5	PASS
		VN	10	-1.01	-0.000579	± 2.5	PASS
		VN	20	-0.54	-0.000309	± 2.5	PASS
		VN	30	-0.57	-0.000327	± 2.5	PASS
		VN	40	-0.29	-0.000166	± 2.5	PASS
		VN	50	0.81	0.000464	± 2.5	PASS