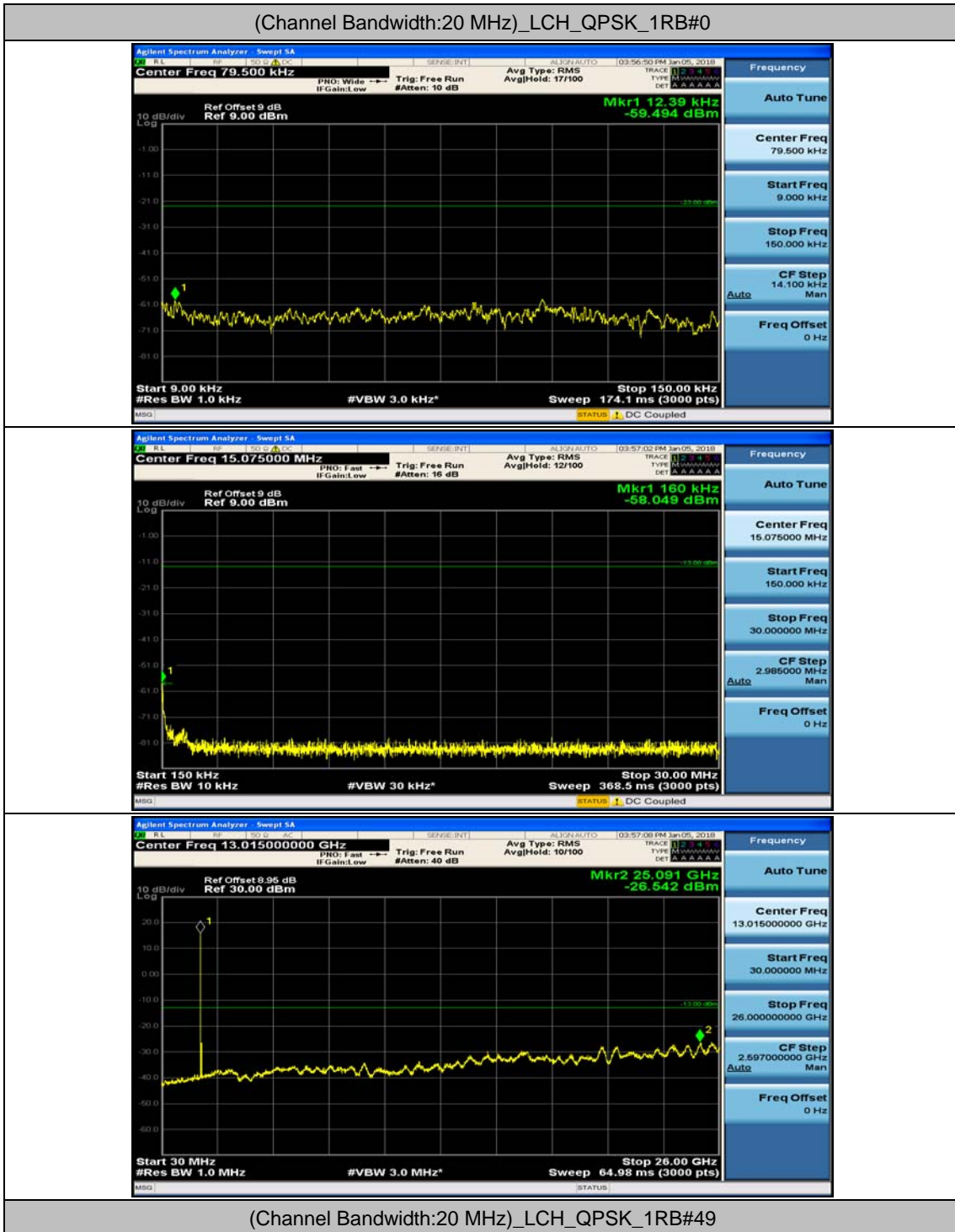
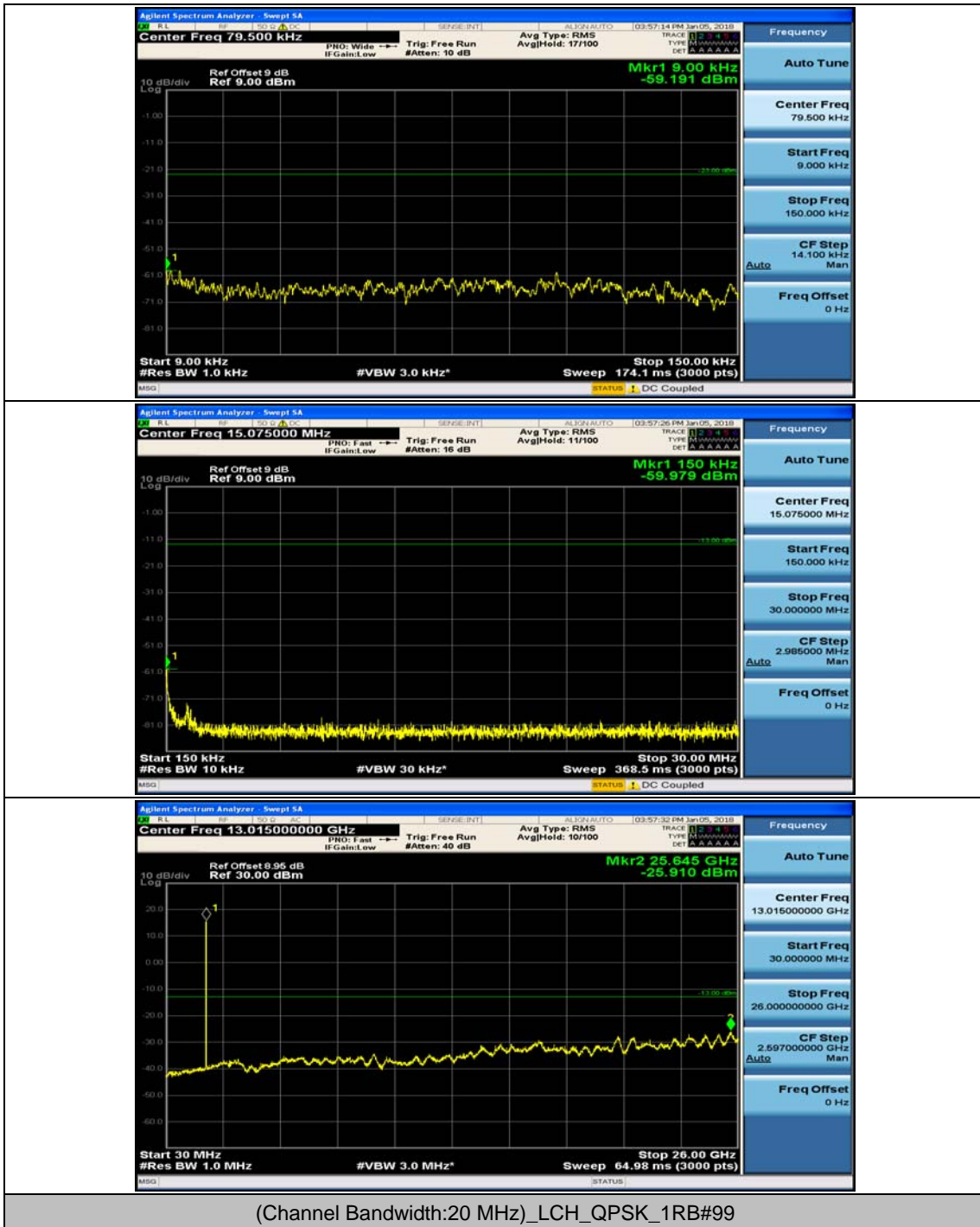
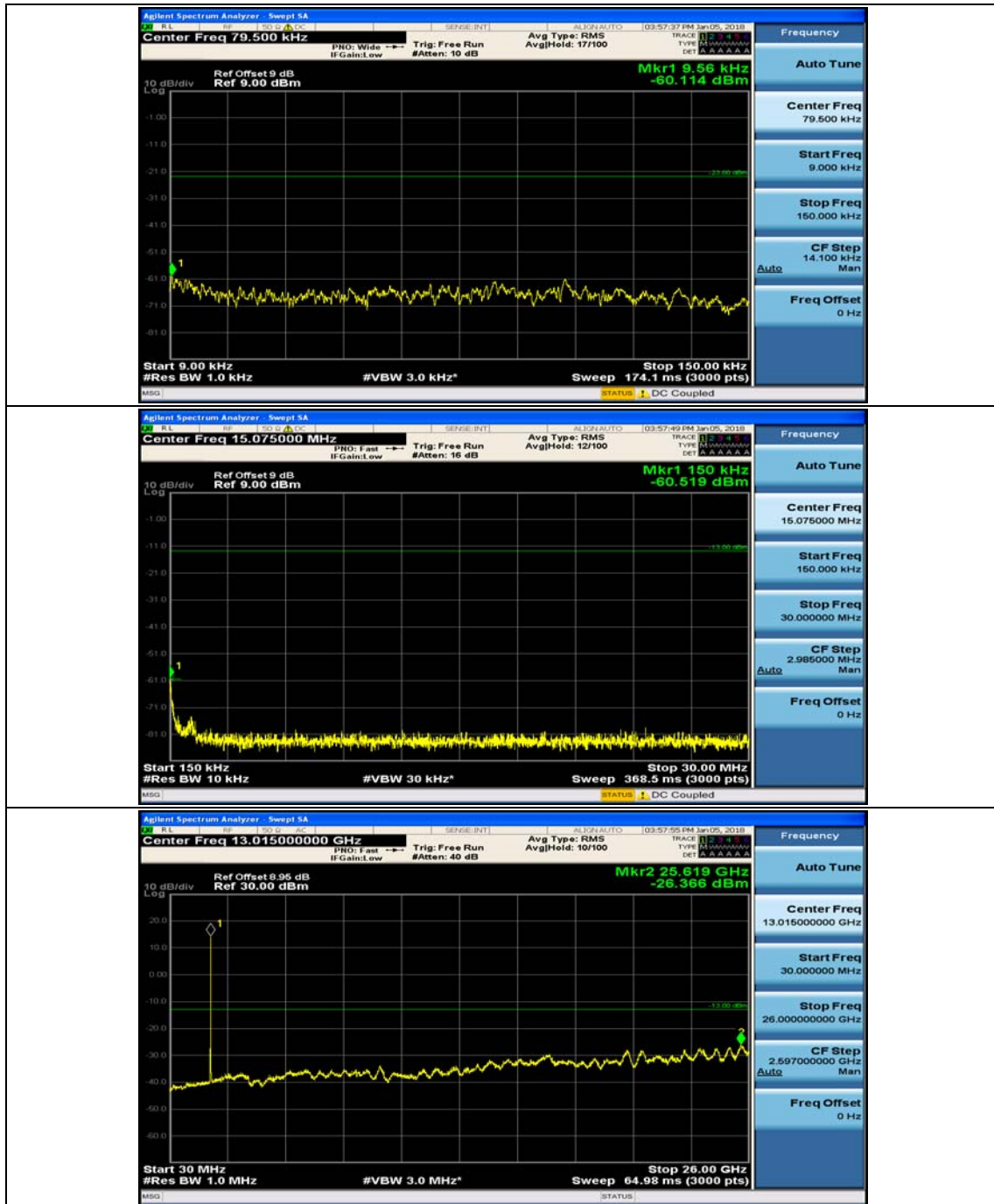


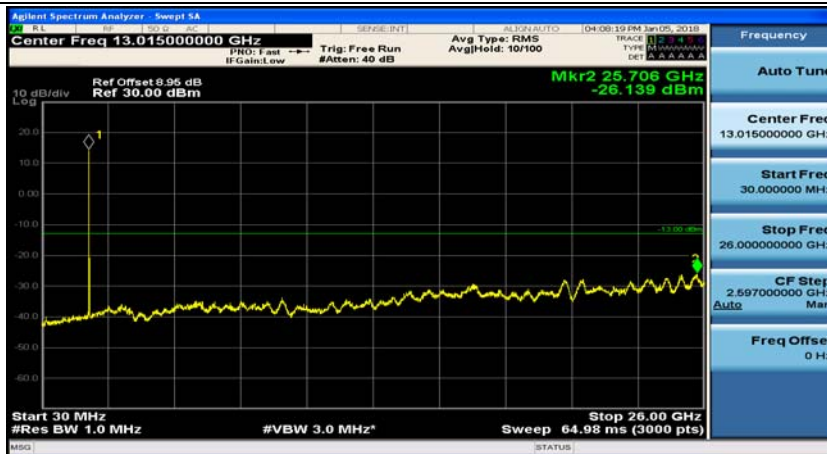
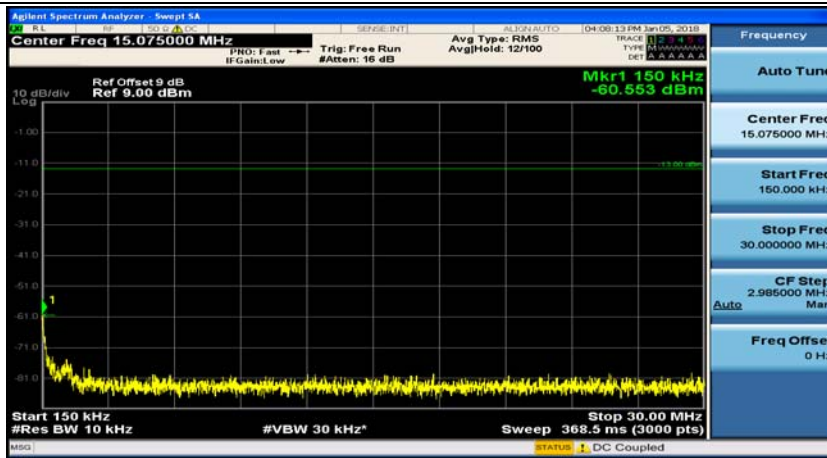
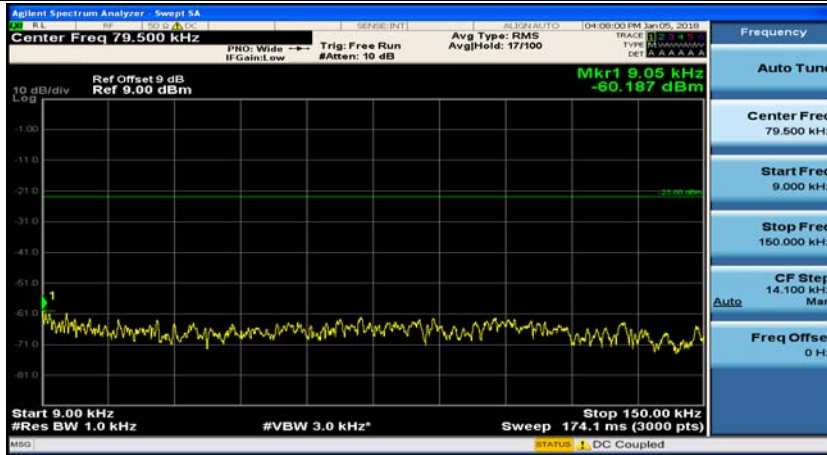
### Channel Bandwidth: 20 MHz



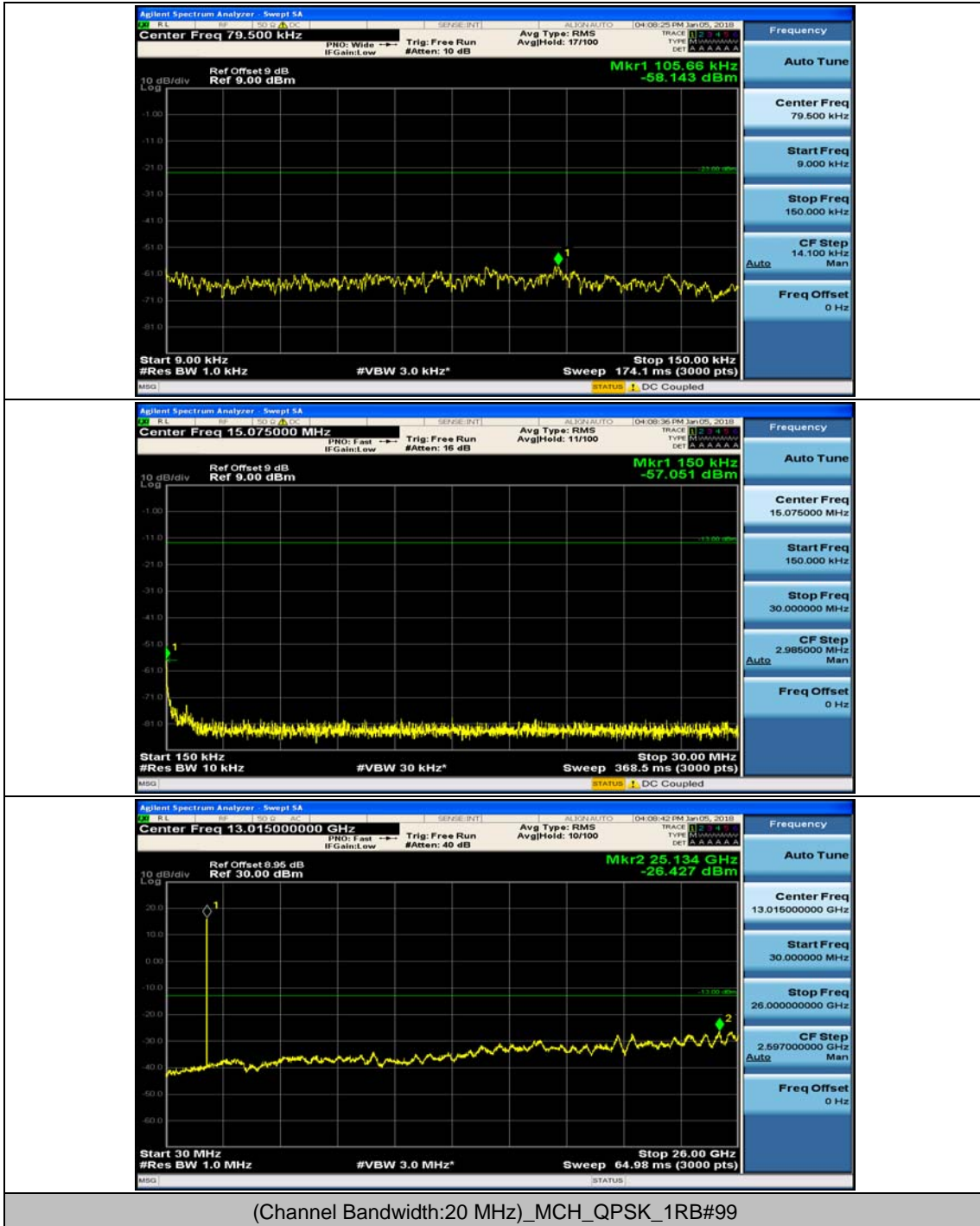


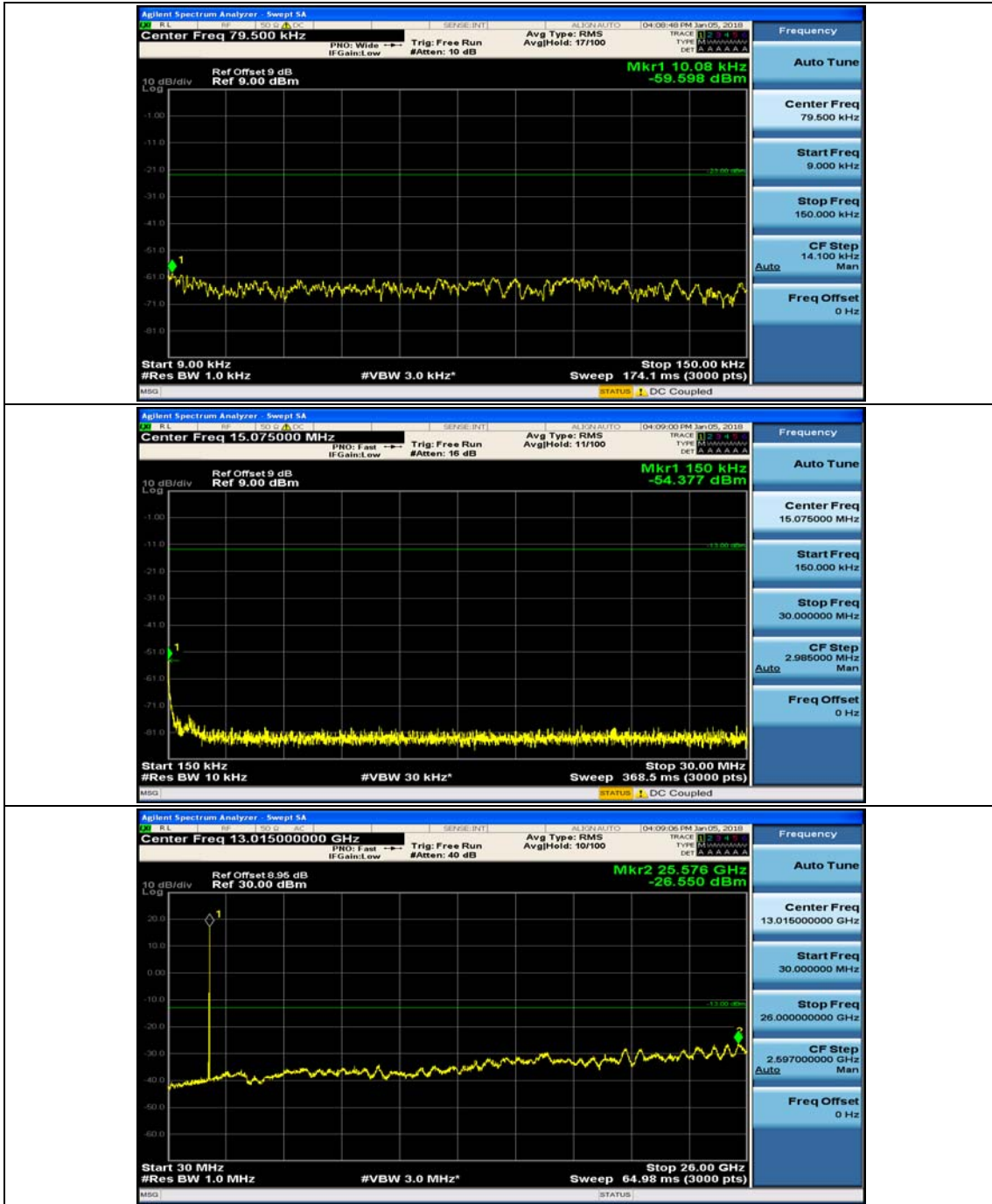


(Channel Bandwidth:20 MHz)\_MCH\_QPSK\_1RB#0



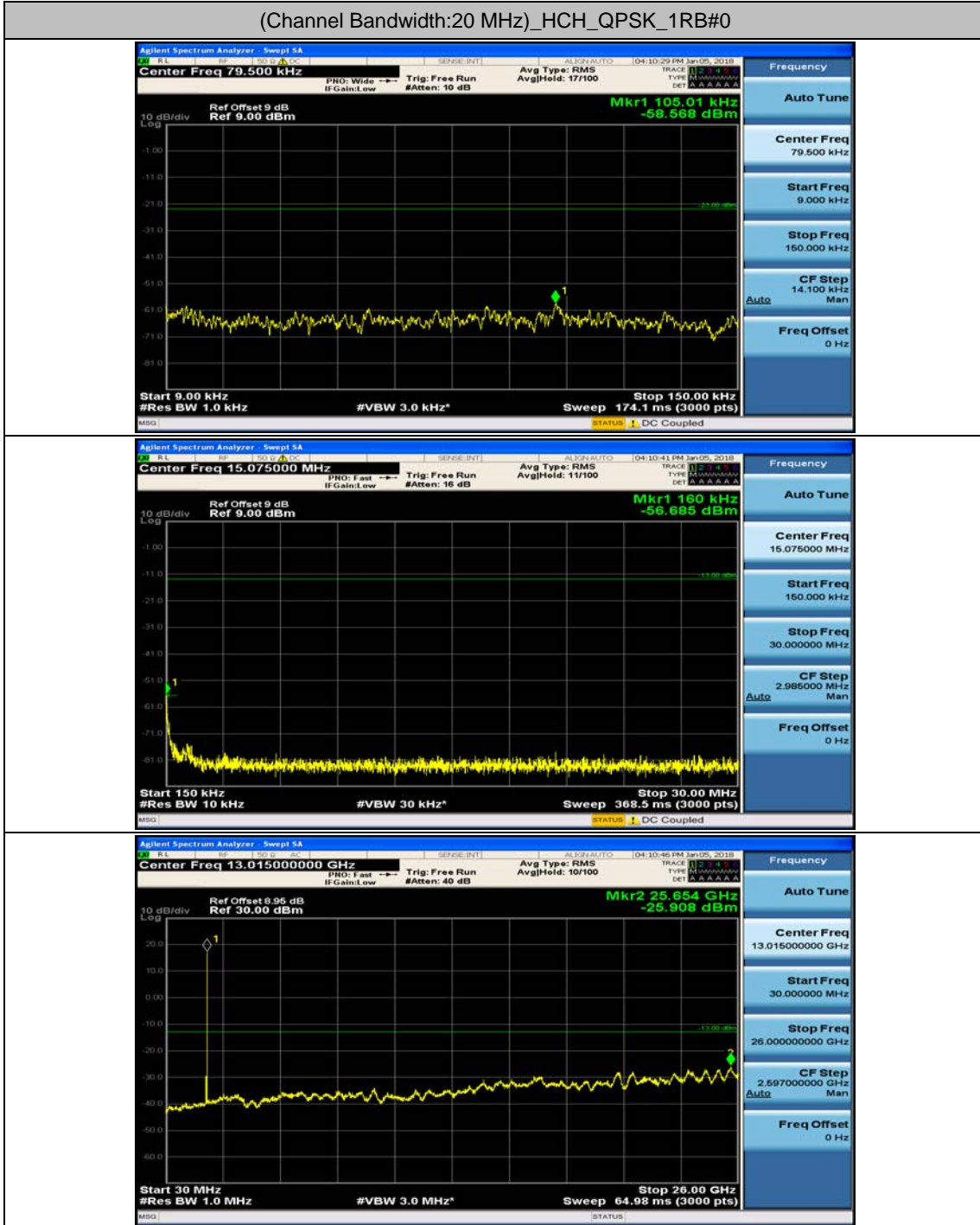
(Channel Bandwidth:20 MHz)\_MCH\_QPSK\_1RB#49



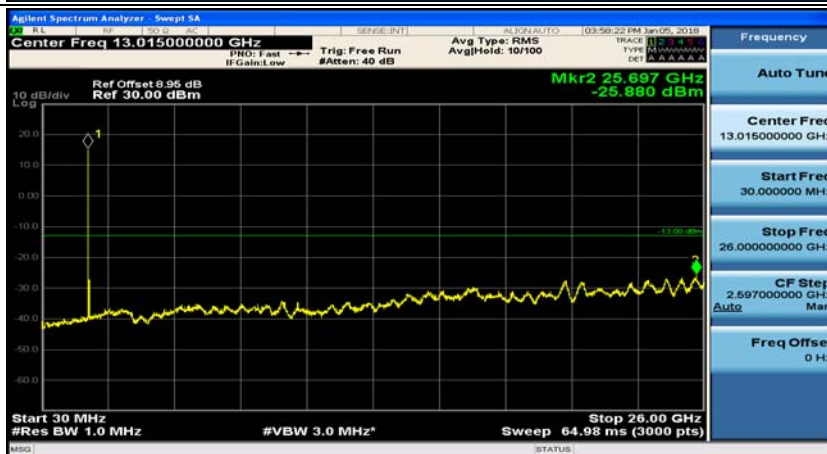
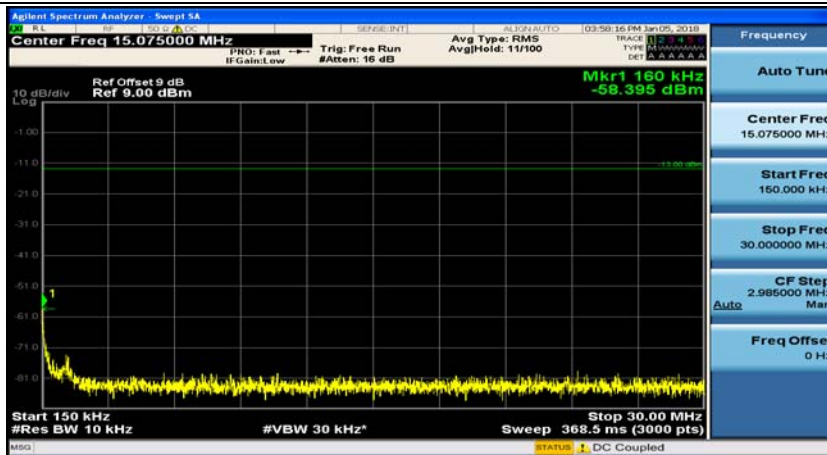




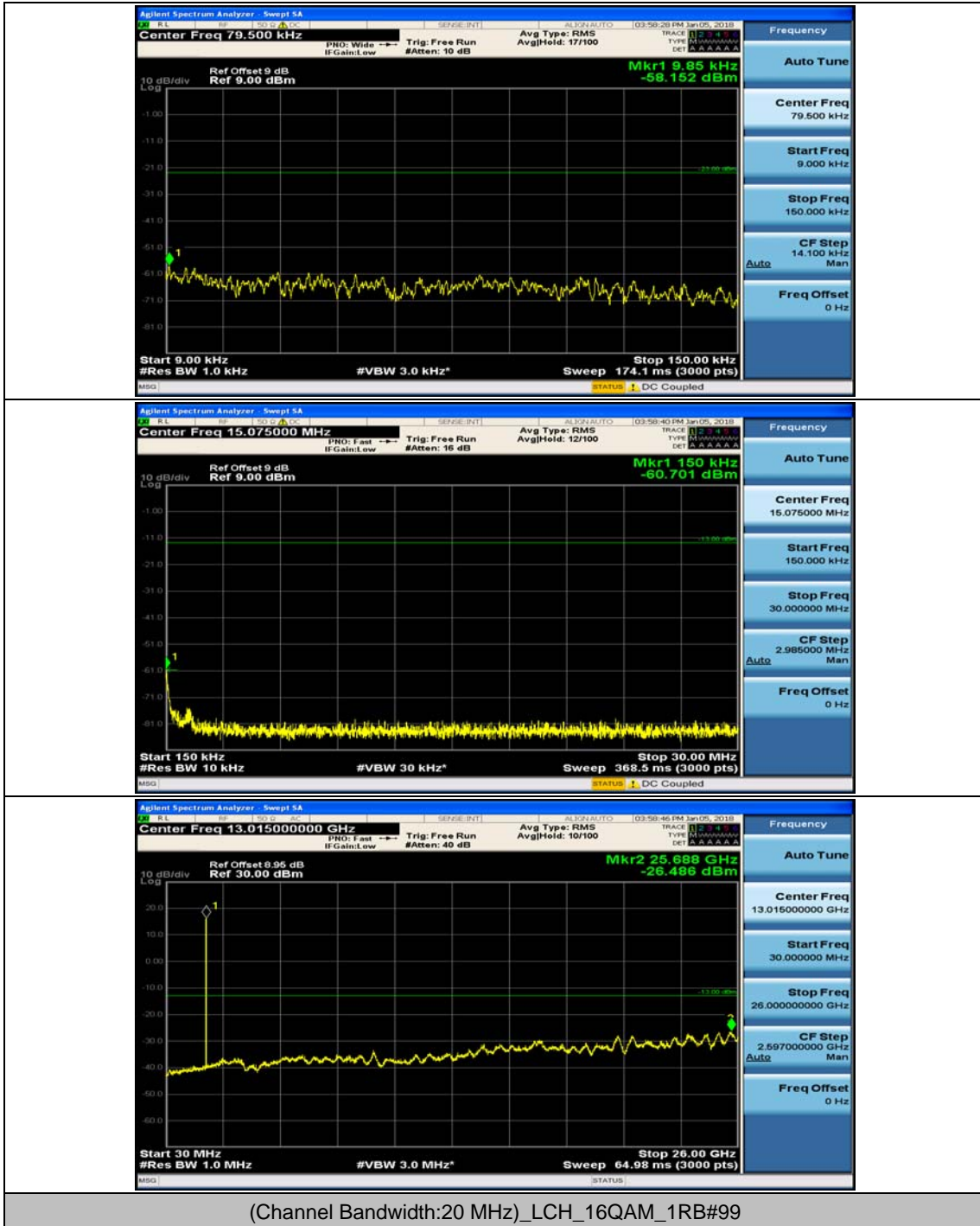
(Channel Bandwidth:20 MHz)\_HCH\_QPSK\_1RB#0

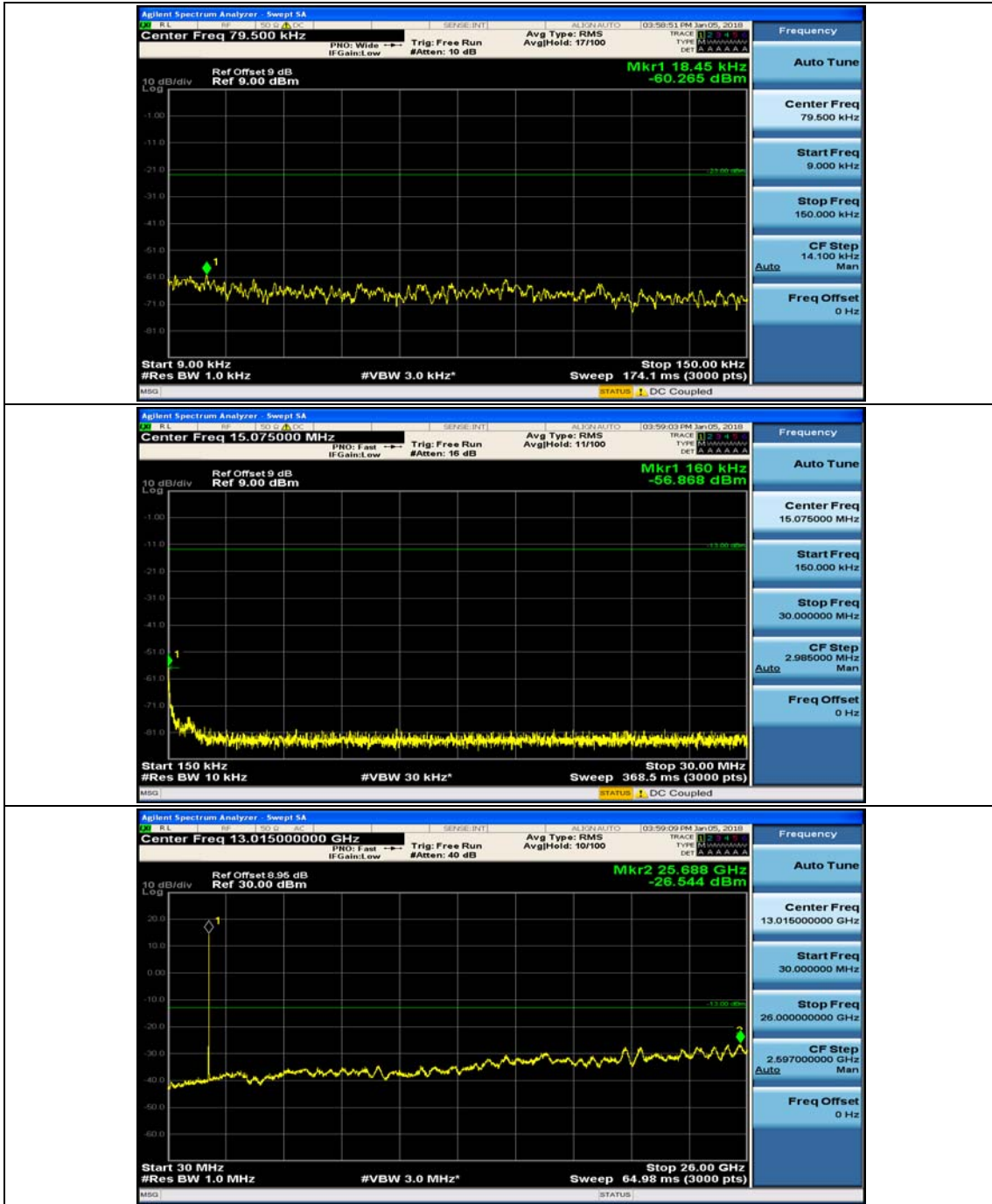


(Channel Bandwidth:20 MHz)\_LCH\_16QAM\_1RB#0

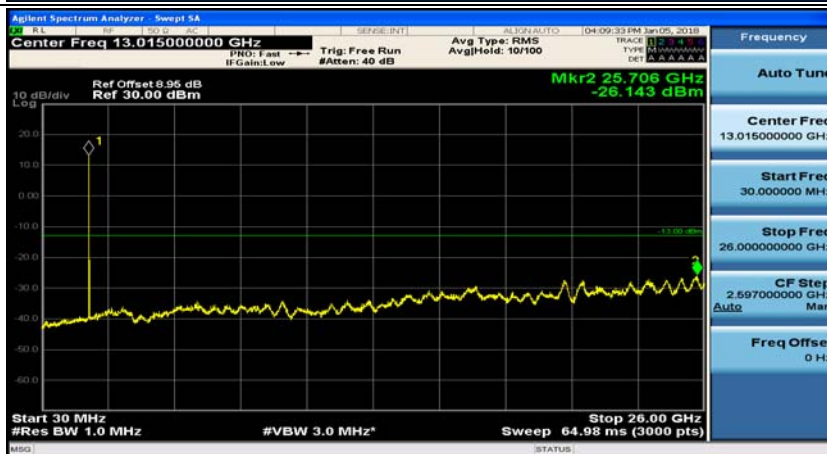
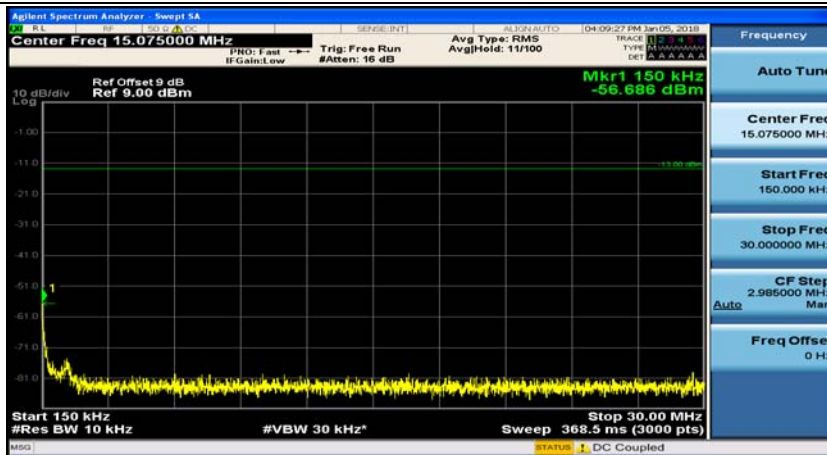


(Channel Bandwidth:20 MHz)\_LCH\_16QAM\_1RB#49

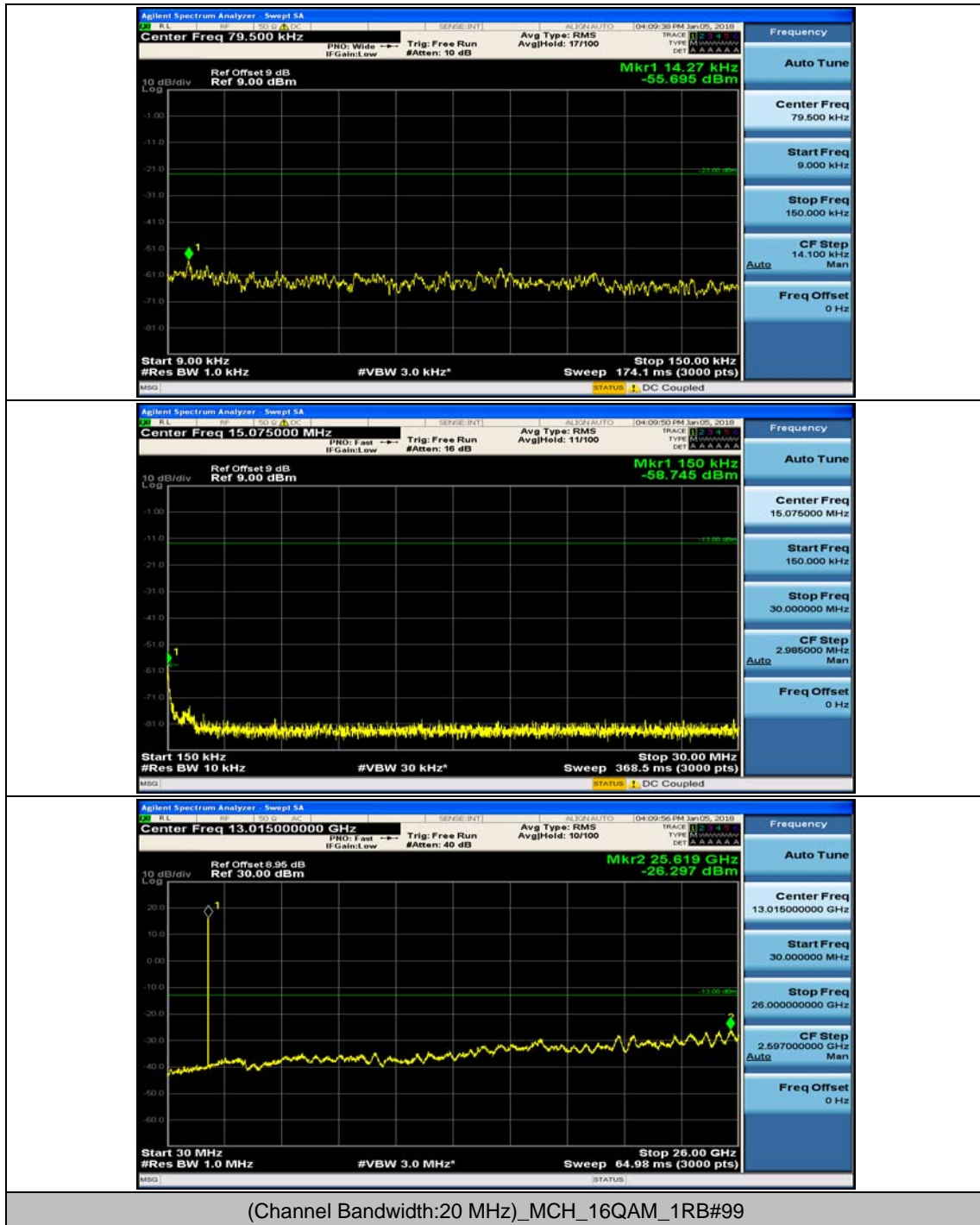


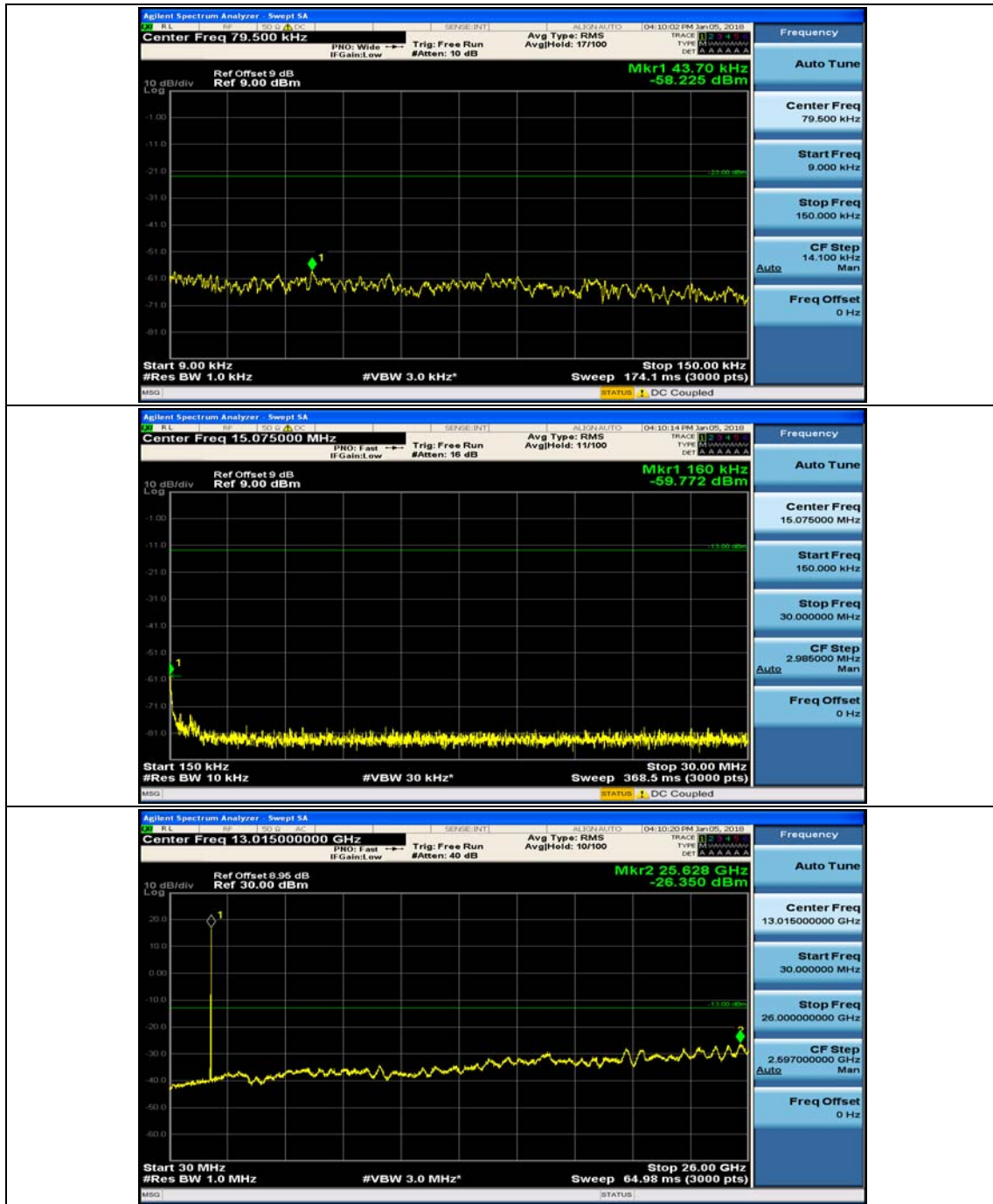


(Channel Bandwidth:20 MHz)\_MCH\_16QAM\_1RB#0



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





## Appendix F: Frequency Stability

### Test Result

#### Channel Bandwidth: 1.4 MHz

Channel Bandwidth: 1.4 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	2.06	0.001113	± 2.5	PASS
		VN	TN	-0.39	-0.000211	± 2.5	PASS
		VH	TN	0.96	0.000519	± 2.5	PASS
	MCH	VL	TN	-1.01	-0.000537	± 2.5	PASS
		VN	TN	0.8	0.000426	± 2.5	PASS
		VH	TN	-1.67	-0.000888	± 2.5	PASS
	HCH	VL	TN	-1.17	-0.000613	± 2.5	PASS
		VN	TN	3.72	0.001948	± 2.5	PASS
		VH	TN	0.18	0.000094	± 2.5	PASS
16QAM	LCH	VL	TN	0.2	0.000108	± 2.5	PASS
		VN	TN	-1.75	-0.000946	± 2.5	PASS
		VH	TN	4.59	0.002480	± 2.5	PASS
	MCH	VL	TN	2.6	0.001383	± 2.5	PASS
		VN	TN	3.74	0.001989	± 2.5	PASS
		VH	TN	2.86	0.001521	± 2.5	PASS
	HCH	VL	TN	0.41	0.000215	± 2.5	PASS
		VN	TN	1.83	0.000958	± 2.5	PASS
		VH	TN	-1.55	-0.000812	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	1.01	0.000546	± 2.5	PASS
		VN	-20	0.79	0.000427	± 2.5	PASS
		VN	-10	-0.29	-0.000157	± 2.5	PASS
		VN	0	2.42	0.001308	± 2.5	PASS
		VN	10	4.03	0.002178	± 2.5	PASS
		VN	20	2.57	0.001389	± 2.5	PASS
		VN	30	-1.82	-0.000983	± 2.5	PASS
		VN	40	1.61	0.000870	± 2.5	PASS
	MCH	VN	-30	3.27	0.001739	± 2.5	PASS
		VN	-20	3.77	0.002005	± 2.5	PASS



		VN	-10	-0.55	-0.000293	± 2.5	PASS	
		VN	0	2.09	0.001112	± 2.5	PASS	
		VN	10	2.39	0.001271	± 2.5	PASS	
		VN	20	3.99	0.002122	± 2.5	PASS	
		VN	30	1.45	0.000771	± 2.5	PASS	
		VN	40	-1.39	-0.000739	± 2.5	PASS	
		VN	50	2.18	0.001160	± 2.5	PASS	
	HCH	VN	-30	1.25	0.000655	± 2.5	PASS	
		VN	-20	2.04	0.001068	± 2.5	PASS	
		VN	-10	-1.48	-0.000775	± 2.5	PASS	
		VN	0	2.21	0.001157	± 2.5	PASS	
		VN	10	-0.08	-0.000042	± 2.5	PASS	
		VN	20	4.84	0.002535	± 2.5	PASS	
		VN	30	-1.2	-0.000629	± 2.5	PASS	
	16QAM	LCH	VN	40	-0.98	-0.000513	± 2.5	PASS
			VN	50	4.81	0.002519	± 2.5	PASS
			VN	-30	4.87	0.002631	± 2.5	PASS
			VN	-20	0.91	0.000492	± 2.5	PASS
VN			-10	0.46	0.000249	± 2.5	PASS	
VN			0	3.19	0.001724	± 2.5	PASS	
VN			10	-0.93	-0.000503	± 2.5	PASS	
VN			20	0.55	0.000297	± 2.5	PASS	
VN			30	-1.74	-0.000940	± 2.5	PASS	
MCH		VN	40	-1.52	-0.000821	± 2.5	PASS	
		VN	50	2.33	0.001259	± 2.5	PASS	
		VN	-30	0.69	0.000367	± 2.5	PASS	
		VN	-20	1.76	0.000936	± 2.5	PASS	
		VN	-10	-1	-0.000532	± 2.5	PASS	
		VN	0	4.33	0.002303	± 2.5	PASS	
		VN	10	4.28	0.002277	± 2.5	PASS	
		VN	20	2.84	0.001511	± 2.5	PASS	
		VN	30	3.43	0.001824	± 2.5	PASS	
HCH	VN	40	-0.1	-0.000053	± 2.5	PASS		
	VN	50	3.9	0.002074	± 2.5	PASS		
	VN	-30	-0.58	-0.000304	± 2.5	PASS		
	VN	-20	2.19	0.001147	± 2.5	PASS		
	VN	-10	-0.92	-0.000482	± 2.5	PASS		
	VN	0	1.92	0.001006	± 2.5	PASS		
	VN	10	3.35	0.001755	± 2.5	PASS		
VN	20	0.8	0.000419	± 2.5	PASS			
VN	30	2.88	0.001508	± 2.5	PASS			

		VN	40	2.82	0.001477	± 2.5	PASS
		VN	50	3.43	0.001796	± 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	0.47	0.000254	± 2.5	PASS
		VN	TN	-0.85	-0.000459	± 2.5	PASS
		VH	TN	-0.98	-0.000529	± 2.5	PASS
	MCH	VL	TN	1.91	0.001016	± 2.5	PASS
		VN	TN	2.08	0.001106	± 2.5	PASS
		VH	TN	4.03	0.002144	± 2.5	PASS
	HCH	VL	TN	1.19	0.000624	± 2.5	PASS
		VN	TN	0.04	0.000021	± 2.5	PASS
		VH	TN	-1.6	-0.000838	± 2.5	PASS
16QAM	LCH	VL	TN	-0.25	-0.000135	± 2.5	PASS
		VN	TN	4.52	0.002441	± 2.5	PASS
		VH	TN	3.65	0.001971	± 2.5	PASS
	MCH	VL	TN	4.57	0.002431	± 2.5	PASS
		VN	TN	0.17	0.000090	± 2.5	PASS
		VH	TN	-0.94	-0.000500	± 2.5	PASS
	HCH	VL	TN	-1.78	-0.000933	± 2.5	PASS
		VN	TN	3.24	0.001698	± 2.5	PASS
		VH	TN	1.35	0.000707	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	3.07	0.001658	± 2.5	PASS
		VN	-20	-1.09	-0.000589	± 2.5	PASS
		VN	-10	1.14	0.000616	± 2.5	PASS
		VN	0	1.79	0.000967	± 2.5	PASS
		VN	10	-1.13	-0.000610	± 2.5	PASS
		VN	20	2.6	0.001404	± 2.5	PASS
		VN	30	1.34	0.000724	± 2.5	PASS
		VN	40	0.96	0.000518	± 2.5	PASS
		VN	50	1.87	0.001010	± 2.5	PASS
	MCH	VN	-30	0.39	0.000207	± 2.5	PASS
		VN	-20	-1.67	-0.000888	± 2.5	PASS
		VN	-10	3.03	0.001612	± 2.5	PASS

		VN	0	-1.59	-0.000846	± 2.5	PASS		
		VN	10	3.67	0.001952	± 2.5	PASS		
		VN	20	3.69	0.001963	± 2.5	PASS		
		VN	30	4.82	0.002564	± 2.5	PASS		
		VN	40	-0.59	-0.000314	± 2.5	PASS		
		VN	50	3.77	0.002005	± 2.5	PASS		
	HCH	VN	-30	1.25	0.000655	± 2.5	PASS		
		VN	-20	2.23	0.001168	± 2.5	PASS		
		VN	-10	0.5	0.000262	± 2.5	PASS		
		VN	0	4.09	0.002143	± 2.5	PASS		
		VN	10	3.74	0.001960	± 2.5	PASS		
		VN	20	-1.15	-0.000603	± 2.5	PASS		
		VN	30	4.03	0.002112	± 2.5	PASS		
		VN	40	3.99	0.002091	± 2.5	PASS		
		VN	50	4.73	0.002478	± 2.5	PASS		
		QPSK	LCH	VN	-30	4.32	0.002333	± 2.5	PASS
				VN	-20	0.85	0.000459	± 2.5	PASS
				VN	-10	3.03	0.001637	± 2.5	PASS
VN	0			-0.85	-0.000459	± 2.5	PASS		
VN	10			2.82	0.001523	± 2.5	PASS		
VN	20			0.46	0.000248	± 2.5	PASS		
VN	30			-0.68	-0.000367	± 2.5	PASS		
VN	40			2.5	0.001350	± 2.5	PASS		
VN	50			1.42	0.000767	± 2.5	PASS		
MCH	VN		-30	3.69	0.001963	± 2.5	PASS		
	VN		-20	3.19	0.001697	± 2.5	PASS		
	VN		-10	-0.51	-0.000271	± 2.5	PASS		
	VN		0	2.3	0.001223	± 2.5	PASS		
	VN		10	-1.05	-0.000559	± 2.5	PASS		
	VN		20	1.45	0.000771	± 2.5	PASS		
	VN		30	0.32	0.000170	± 2.5	PASS		
	VN		40	0.12	0.000064	± 2.5	PASS		
	VN		50	0.72	0.000383	± 2.5	PASS		
HCH	VN		-30	-0.97	-0.000508	± 2.5	PASS		
	VN		-20	-1.11	-0.000582	± 2.5	PASS		
	VN		-10	4.25	0.002227	± 2.5	PASS		
	VN		0	2.75	0.001441	± 2.5	PASS		
	VN		10	4.92	0.002578	± 2.5	PASS		
	VN		20	-1.66	-0.000870	± 2.5	PASS		
	VN		30	1.04	0.000545	± 2.5	PASS		
	VN		40	-1.78	-0.000933	± 2.5	PASS		

		VN	50	-0.89	-0.000466	± 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	2.5	0.001350	± 2.5	PASS
		VN	TN	4.95	0.002672	± 2.5	PASS
		VH	TN	-1.8	-0.000972	± 2.5	PASS
	MCH	VL	TN	3.93	0.002090	± 2.5	PASS
		VN	TN	0.1	0.000053	± 2.5	PASS
		VH	TN	1.7	0.000904	± 2.5	PASS
	HCH	VL	TN	-1.03	-0.000540	± 2.5	PASS
		VN	TN	2.39	0.001253	± 2.5	PASS
		VH	TN	2.62	0.001374	± 2.5	PASS
16QAM	LCH	VL	TN	-1.92	-0.001036	± 2.5	PASS
		VN	TN	1.73	0.000934	± 2.5	PASS
		VH	TN	-1.93	-0.001042	± 2.5	PASS
	MCH	VL	TN	0.93	0.000495	± 2.5	PASS
		VN	TN	-1.26	-0.000670	± 2.5	PASS
		VH	TN	2	0.001064	± 2.5	PASS
	HCH	VL	TN	-0.94	-0.000493	± 2.5	PASS
		VN	TN	-1.68	-0.000881	± 2.5	PASS
		VH	TN	3.37	0.001767	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	3.97	0.002143	± 2.5	PASS
		VN	-20	0.25	0.000135	± 2.5	PASS
		VN	-10	1.18	0.000637	± 2.5	PASS
		VN	0	-1.8	-0.000972	± 2.5	PASS
		VN	10	-0.41	-0.000221	± 2.5	PASS
		VN	20	3.12	0.001684	± 2.5	PASS
		VN	30	3.56	0.001922	± 2.5	PASS
		VN	40	-0.13	-0.000070	± 2.5	PASS
		VN	50	2.62	0.001414	± 2.5	PASS
	MCH	VN	-30	0.98	0.000521	± 2.5	PASS
		VN	-20	-0.88	-0.000468	± 2.5	PASS
		VN	-10	3.99	0.002122	± 2.5	PASS
		VN	0	4.19	0.002229	± 2.5	PASS

		VN	10	-1.78	-0.000947	± 2.5	PASS
		VN	20	-0.74	-0.000394	± 2.5	PASS
		VN	30	2.92	0.001553	± 2.5	PASS
		VN	40	2.4	0.001277	± 2.5	PASS
		VN	50	0.31	0.000165	± 2.5	PASS
	HCH	VN	-30	2.62	0.001374	± 2.5	PASS
		VN	-20	0.28	0.000147	± 2.5	PASS
		VN	-10	0.24	0.000126	± 2.5	PASS
		VN	0	4.81	0.002522	± 2.5	PASS
		VN	10	-0.3	-0.000157	± 2.5	PASS
		VN	20	0.13	0.000068	± 2.5	PASS
		VN	30	2.32	0.001216	± 2.5	PASS
		VN	40	3.21	0.001683	± 2.5	PASS
		VN	50	3.12	0.001636	± 2.5	PASS
		16QAM	LCH	VN	-30	4.22	0.002278
VN	-20			-0.26	-0.000140	± 2.5	PASS
VN	-10			0.95	0.000513	± 2.5	PASS
VN	0			-0.74	-0.000399	± 2.5	PASS
VN	10			2.68	0.001447	± 2.5	PASS
VN	20			2	0.001080	± 2.5	PASS
VN	30			1.6	0.000864	± 2.5	PASS
VN	40			4.98	0.002688	± 2.5	PASS
VN	50			0.53	0.000286	± 2.5	PASS
MCH	VN		-30	-0.62	-0.000330	± 2.5	PASS
	VN		-20	0.06	0.000032	± 2.5	PASS
	VN		-10	1.75	0.000931	± 2.5	PASS
	VN		0	4.37	0.002324	± 2.5	PASS
	VN		10	-0.09	-0.000048	± 2.5	PASS
	VN		20	1.55	0.000824	± 2.5	PASS
	VN		30	3.79	0.002016	± 2.5	PASS
	VN		40	-0.68	-0.000362	± 2.5	PASS
	VN		50	3.79	0.002016	± 2.5	PASS
HCH	VN		-30	3.01	0.001578	± 2.5	PASS
	VN		-20	0.9	0.000472	± 2.5	PASS
	VN		-10	1.73	0.000907	± 2.5	PASS
	VN		0	0.44	0.000231	± 2.5	PASS
	VN		10	3.79	0.001987	± 2.5	PASS
	VN		20	0.66	0.000346	± 2.5	PASS
	VN		30	4.73	0.002480	± 2.5	PASS
	VN		40	1.76	0.000923	± 2.5	PASS
	VN		50	0.79	0.000414	± 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	3.06	0.001650	± 2.5	PASS
		VN	TN	1.22	0.000658	± 2.5	PASS
		VH	TN	2.49	0.001342	± 2.5	PASS
	MCH	VL	TN	1.82	0.000968	± 2.5	PASS
		VN	TN	0.74	0.000394	± 2.5	PASS
		VH	TN	3.31	0.001761	± 2.5	PASS
	HCH	VL	TN	1.31	0.000688	± 2.5	PASS
		VN	TN	-1.73	-0.000908	± 2.5	PASS
		VH	TN	4.47	0.002346	± 2.5	PASS
16QAM	LCH	VL	TN	-1.67	-0.000900	± 2.5	PASS
		VN	TN	-0.51	-0.000275	± 2.5	PASS
		VH	TN	4.97	0.002679	± 2.5	PASS
	MCH	VL	TN	3.36	0.001787	± 2.5	PASS
		VN	TN	5	0.002660	± 2.5	PASS
		VH	TN	-0.12	-0.000064	± 2.5	PASS
	HCH	VL	TN	4.15	0.002178	± 2.5	PASS
		VN	TN	-1.81	-0.000950	± 2.5	PASS
		VH	TN	3.23	0.001696	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
16QAM	LCH	VN	-30	-0.19	-0.000102	± 2.5	PASS
		VN	-20	4.72	0.002544	± 2.5	PASS
		VN	-10	-1.09	-0.000588	± 2.5	PASS
		VN	0	4.03	0.002173	± 2.5	PASS
		VN	10	4.34	0.002340	± 2.5	PASS
		VN	20	2.84	0.001531	± 2.5	PASS
		VN	30	1.41	0.000760	± 2.5	PASS
		VN	40	-1.72	-0.000927	± 2.5	PASS
		VN	50	0.49	0.000264	± 2.5	PASS
	MCH	VN	-30	1.68	0.000894	± 2.5	PASS
		VN	-20	3.65	0.001941	± 2.5	PASS
		VN	-10	4.8	0.002553	± 2.5	PASS
		VN	0	1.11	0.000590	± 2.5	PASS
		VN	10	2.03	0.001080	± 2.5	PASS
		VN	20	3.57	0.001899	± 2.5	PASS

		VN	30	-0.11	-0.000059	± 2.5	PASS
		VN	40	-1.98	-0.001053	± 2.5	PASS
		VN	50	2.2	0.001170	± 2.5	PASS
	HCH	VN	-30	-0.24	-0.000126	± 2.5	PASS
		VN	-20	2.7	0.001417	± 2.5	PASS
		VN	-10	4.12	0.002163	± 2.5	PASS
		VN	0	-0.71	-0.000373	± 2.5	PASS
		VN	10	3.18	0.001669	± 2.5	PASS
		VN	20	1.66	0.000871	± 2.5	PASS
		VN	30	2.31	0.001213	± 2.5	PASS
		VN	40	2.03	0.001066	± 2.5	PASS
		VN	50	2.13	0.001118	± 2.5	PASS
QPSK	LCH	VN	-30	4.52	0.002437	± 2.5	PASS
		VN	-20	2.7	0.001456	± 2.5	PASS
		VN	-10	2.04	0.001100	± 2.5	PASS
		VN	0	0.68	0.000367	± 2.5	PASS
		VN	10	1.26	0.000679	± 2.5	PASS
		VN	20	-1.76	-0.000949	± 2.5	PASS
		VN	30	1.48	0.000798	± 2.5	PASS
		VN	40	-0.21	-0.000113	± 2.5	PASS
		VN	50	-1.46	-0.000787	± 2.5	PASS
	MCH	VN	-30	2.47	0.001314	± 2.5	PASS
		VN	-20	4.87	0.002590	± 2.5	PASS
		VN	-10	-0.46	-0.000245	± 2.5	PASS
		VN	0	4.2	0.002234	± 2.5	PASS
		VN	10	2.29	0.001218	± 2.5	PASS
		VN	20	3.51	0.001867	± 2.5	PASS
		VN	30	-1.54	-0.000819	± 2.5	PASS
		VN	40	4.75	0.002527	± 2.5	PASS
		VN	50	1.83	0.000973	± 2.5	PASS
	HCH	VN	-30	0.93	0.000488	± 2.5	PASS
		VN	-20	-1.31	-0.000688	± 2.5	PASS
		VN	-10	1.05	0.000551	± 2.5	PASS
		VN	0	-0.69	-0.000362	± 2.5	PASS
		VN	10	-1.94	-0.001018	± 2.5	PASS
		VN	20	4.13	0.002168	± 2.5	PASS
		VN	30	1.51	0.000793	± 2.5	PASS
		VN	40	0.76	0.000399	± 2.5	PASS
		VN	50	-1.18	-0.000619	± 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	2.75	0.001480	± 2.5	PASS
		VN	TN	1.34	0.000721	± 2.5	PASS
		VH	TN	4.26	0.002293	± 2.5	PASS
	MCH	VL	TN	-0.1	-0.000053	± 2.5	PASS
		VN	TN	-1.04	-0.000553	± 2.5	PASS
		VH	TN	2.89	0.001537	± 2.5	PASS
	HCH	VL	TN	3.59	0.001887	± 2.5	PASS
		VN	TN	0.55	0.000289	± 2.5	PASS
		VH	TN	0.19	0.000100	± 2.5	PASS
16QAM	LCH	VL	TN	1.45	0.000781	± 2.5	PASS
		VN	TN	1.6	0.000861	± 2.5	PASS
		VH	TN	3.38	0.001820	± 2.5	PASS
	MCH	VL	TN	-1.63	-0.000867	± 2.5	PASS
		VN	TN	0.32	0.000170	± 2.5	PASS
		VH	TN	3.34	0.001777	± 2.5	PASS
	HCH	VL	TN	2.96	0.001556	± 2.5	PASS
		VN	TN	-0.22	-0.000116	± 2.5	PASS
		VH	TN	3.19	0.001677	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	1.19	0.000641	± 2.5	PASS
		VN	-20	3.63	0.001954	± 2.5	PASS
		VN	-10	4.75	0.002557	± 2.5	PASS
		VN	0	1.32	0.000711	± 2.5	PASS
		VN	10	3.79	0.002040	± 2.5	PASS
		VN	20	2.18	0.001174	± 2.5	PASS
		VN	30	-0.84	-0.000452	± 2.5	PASS
		VN	40	-1.39	-0.000748	± 2.5	PASS
		VN	50	1.91	0.001028	± 2.5	PASS
	MCH	VN	-30	4.04	0.002149	± 2.5	PASS
		VN	-20	2.05	0.001090	± 2.5	PASS
		VN	-10	2.99	0.001590	± 2.5	PASS
		VN	0	-0.45	-0.000239	± 2.5	PASS
		VN	10	1.28	0.000681	± 2.5	PASS
		VN	20	-1.09	-0.000580	± 2.5	PASS



		VN	30	4.74	0.002521	± 2.5	PASS
		VN	40	-1.46	-0.000777	± 2.5	PASS
		VN	50	2.61	0.001388	± 2.5	PASS
	HCH	VN	-30	4.54	0.002386	± 2.5	PASS
		VN	-20	4.09	0.002150	± 2.5	PASS
		VN	-10	0.8	0.000420	± 2.5	PASS
		VN	0	-0.93	-0.000489	± 2.5	PASS
		VN	10	3.44	0.001808	± 2.5	PASS
		VN	20	3.53	0.001855	± 2.5	PASS
		VN	30	4.14	0.002176	± 2.5	PASS
		VN	40	0.7	0.000368	± 2.5	PASS
		VN	50	-0.86	-0.000452	± 2.5	PASS
QPSK	LCH	VN	-30	4.11	0.002213	± 2.5	PASS
		VN	-20	4.25	0.002288	± 2.5	PASS
		VN	-10	3.25	0.001750	± 2.5	PASS
		VN	0	4.97	0.002676	± 2.5	PASS
		VN	10	0.53	0.000285	± 2.5	PASS
		VN	20	3.6	0.001938	± 2.5	PASS
		VN	30	-1.2	-0.000646	± 2.5	PASS
		VN	40	-1.87	-0.001007	± 2.5	PASS
	MCH	VN	50	0.42	0.000226	± 2.5	PASS
		VN	-30	2.68	0.001426	± 2.5	PASS
		VN	-20	0.05	0.000027	± 2.5	PASS
		VN	-10	-0.53	-0.000282	± 2.5	PASS
		VN	0	0.72	0.000383	± 2.5	PASS
		VN	10	2.28	0.001213	± 2.5	PASS
		VN	20	3.48	0.001851	± 2.5	PASS
		VN	30	0.27	0.000144	± 2.5	PASS
		VN	40	2.5	0.001330	± 2.5	PASS
	HCH	VN	50	3.98	0.002117	± 2.5	PASS
		VN	-30	4.99	0.002623	± 2.5	PASS
		VN	-20	1.7	0.000894	± 2.5	PASS
		VN	-10	2.79	0.001466	± 2.5	PASS
		VN	0	0.92	0.000484	± 2.5	PASS
		VN	10	-0.15	-0.000079	± 2.5	PASS
		VN	20	1.8	0.000946	± 2.5	PASS
VN		30	-0.47	-0.000247	± 2.5	PASS	
VN	40	4.93	0.002591	± 2.5	PASS		
VN	50	-0.23	-0.000121	± 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	-0.03	-0.000016	± 2.5	PASS
		VN	TN	-1.33	-0.000715	± 2.5	PASS
		VH	TN	3.84	0.002065	± 2.5	PASS
	MCH	VL	TN	3.22	0.001713	± 2.5	PASS
		VN	TN	0.52	0.000277	± 2.5	PASS
		VH	TN	3.96	0.002106	± 2.5	PASS
	HCH	VL	TN	-1.52	-0.000800	± 2.5	PASS
		VN	TN	1.62	0.000853	± 2.5	PASS
		VH	TN	0.56	0.000295	± 2.5	PASS
16QAM	LCH	VL	TN	-0.83	-0.000446	± 2.5	PASS
		VN	TN	0.05	0.000027	± 2.5	PASS
		VH	TN	1.51	0.000812	± 2.5	PASS
	MCH	VL	TN	-1.68	-0.000894	± 2.5	PASS
		VN	TN	4.84	0.002574	± 2.5	PASS
		VH	TN	0.22	0.000117	± 2.5	PASS
	HCH	VL	TN	1.27	0.000668	± 2.5	PASS
		VN	TN	3.97	0.002089	± 2.5	PASS
		VH	TN	3.43	0.001805	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	4.93	0.002651	± 2.5	PASS
		VN	-20	-0.74	-0.000398	± 2.5	PASS
		VN	-10	0.11	0.000059	± 2.5	PASS
		VN	0	0.89	0.000478	± 2.5	PASS
		VN	10	-0.2	-0.000108	± 2.5	PASS
		VN	20	4.89	0.002629	± 2.5	PASS
		VN	30	1.15	0.000618	± 2.5	PASS
		VN	40	-1.89	-0.001016	± 2.5	PASS
	MCH	VN	50	4.25	0.002285	± 2.5	PASS
		VN	-30	-0.81	-0.000431	± 2.5	PASS
		VN	-20	0.36	0.000191	± 2.5	PASS
		VN	-10	0.23	0.000122	± 2.5	PASS
		VN	0	3.92	0.002085	± 2.5	PASS
		VN	10	3.25	0.001729	± 2.5	PASS
VN	20	-0.18	-0.000096	± 2.5	PASS		

		VN	30	4.22	0.002245	± 2.5	PASS
		VN	40	2.1	0.001117	± 2.5	PASS
		VN	50	-0.11	-0.000059	± 2.5	PASS
	HCH	VN	-30	-0.28	-0.000147	± 2.5	PASS
		VN	-20	2.32	0.001221	± 2.5	PASS
		VN	-10	3.07	0.001616	± 2.5	PASS
		VN	0	-1.34	-0.000705	± 2.5	PASS
		VN	10	-0.28	-0.000147	± 2.5	PASS
		VN	20	1.16	0.000611	± 2.5	PASS
		VN	30	-0.13	-0.000068	± 2.5	PASS
		VN	40	4.89	0.002574	± 2.5	PASS
		VN	50	2.85	0.001500	± 2.5	PASS
QPSK	LCH	VN	-30	-1.3	-0.000699	± 2.5	PASS
		VN	-20	0.44	0.000237	± 2.5	PASS
		VN	-10	0.92	0.000495	± 2.5	PASS
		VN	0	2.49	0.001339	± 2.5	PASS
		VN	10	-1.34	-0.000720	± 2.5	PASS
		VN	20	-1.82	-0.000978	± 2.5	PASS
		VN	30	4.67	0.002511	± 2.5	PASS
		VN	40	-1.4	-0.000753	± 2.5	PASS
		VN	50	3.27	0.001758	± 2.5	PASS
	MCH	VN	-30	-0.33	-0.000176	± 2.5	PASS
		VN	-20	2.52	0.001340	± 2.5	PASS
		VN	-10	3.15	0.001676	± 2.5	PASS
		VN	0	-1.16	-0.000617	± 2.5	PASS
		VN	10	0.61	0.000324	± 2.5	PASS
		VN	20	0.61	0.000324	± 2.5	PASS
		VN	30	-1.7	-0.000904	± 2.5	PASS
		VN	40	-0.51	-0.000271	± 2.5	PASS
		VN	50	1.8	0.000957	± 2.5	PASS
	HCH	VN	-30	2.85	0.001500	± 2.5	PASS
		VN	-20	-1.99	-0.001047	± 2.5	PASS
		VN	-10	0.89	0.000468	± 2.5	PASS
		VN	0	4.39	0.002311	± 2.5	PASS
		VN	10	2.4	0.001263	± 2.5	PASS
		VN	20	4.36	0.002295	± 2.5	PASS
		VN	30	2.85	0.001500	± 2.5	PASS
		VN	40	3.37	0.001774	± 2.5	PASS
		VN	50	-1.28	-0.000674	± 2.5	PASS