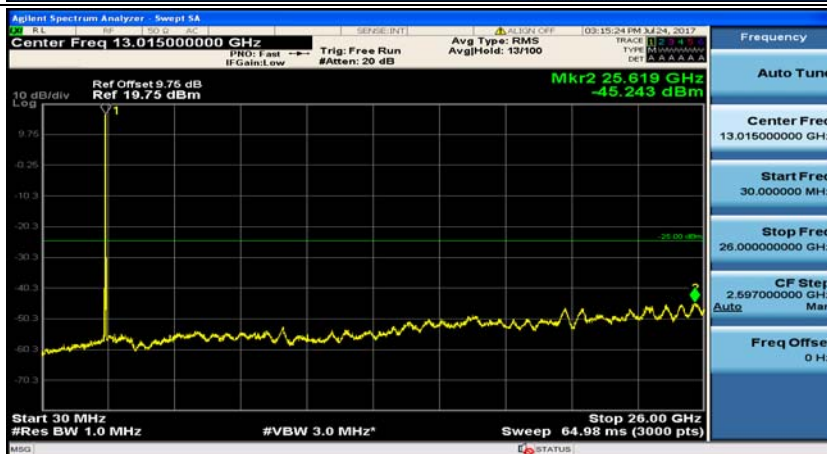
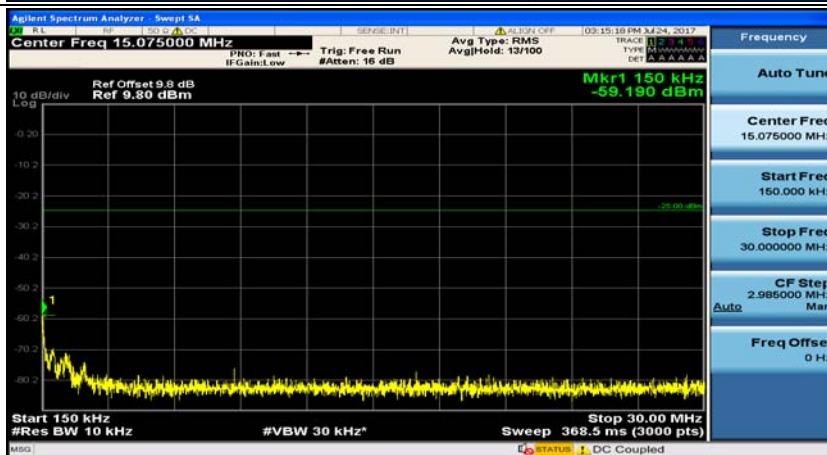
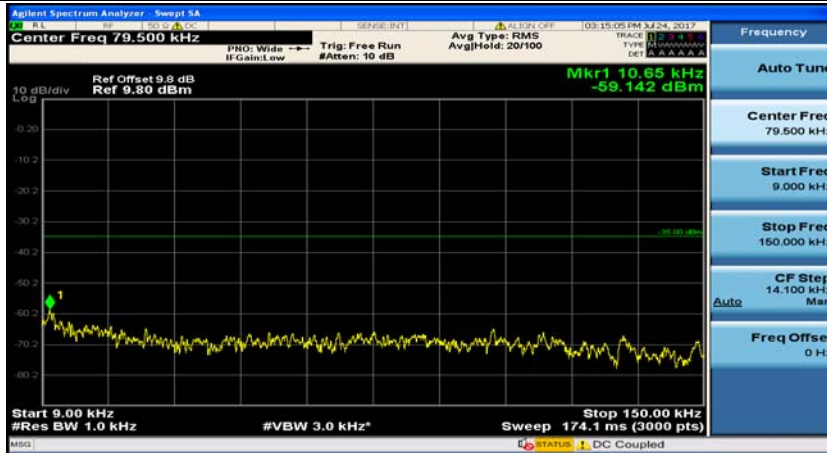
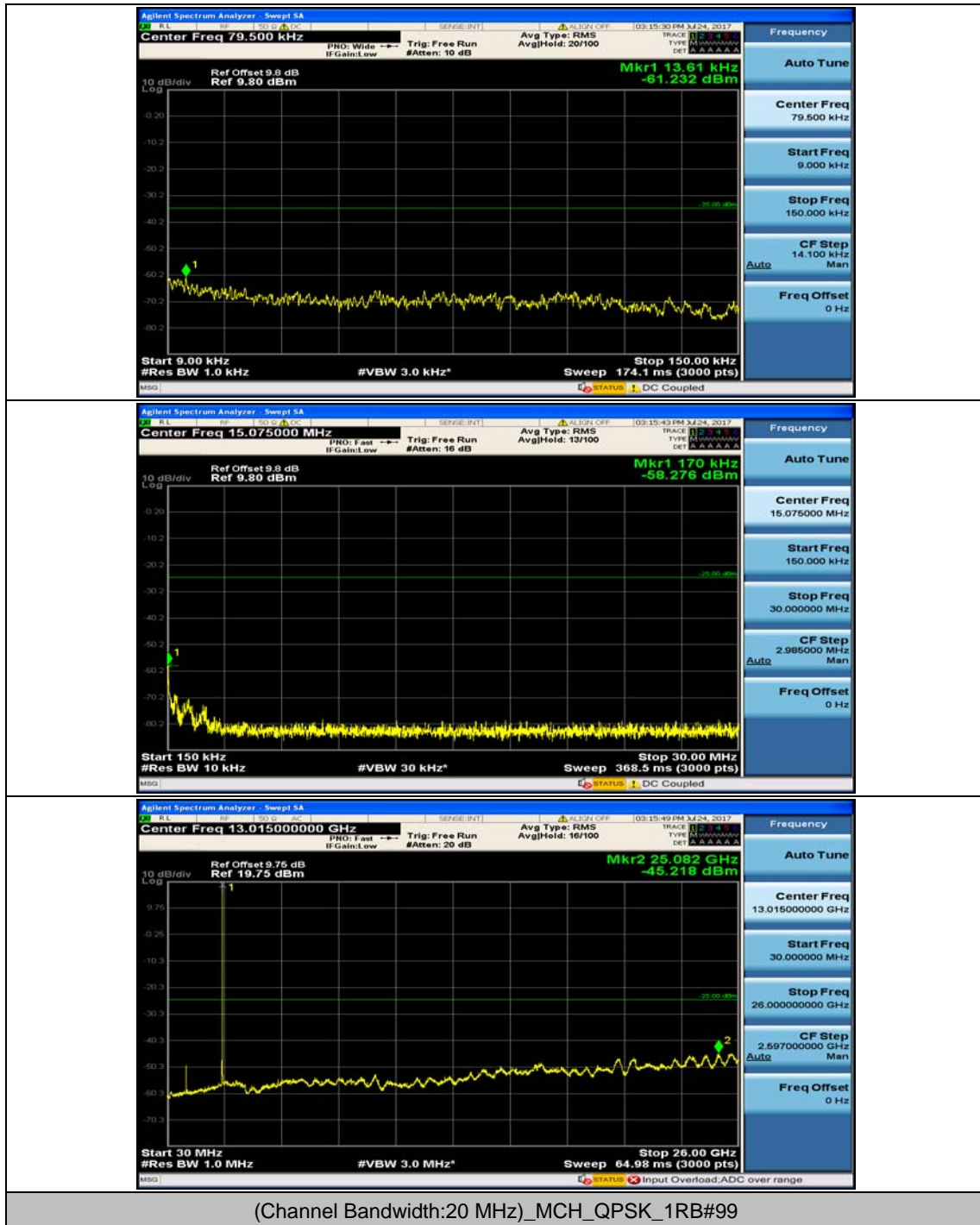
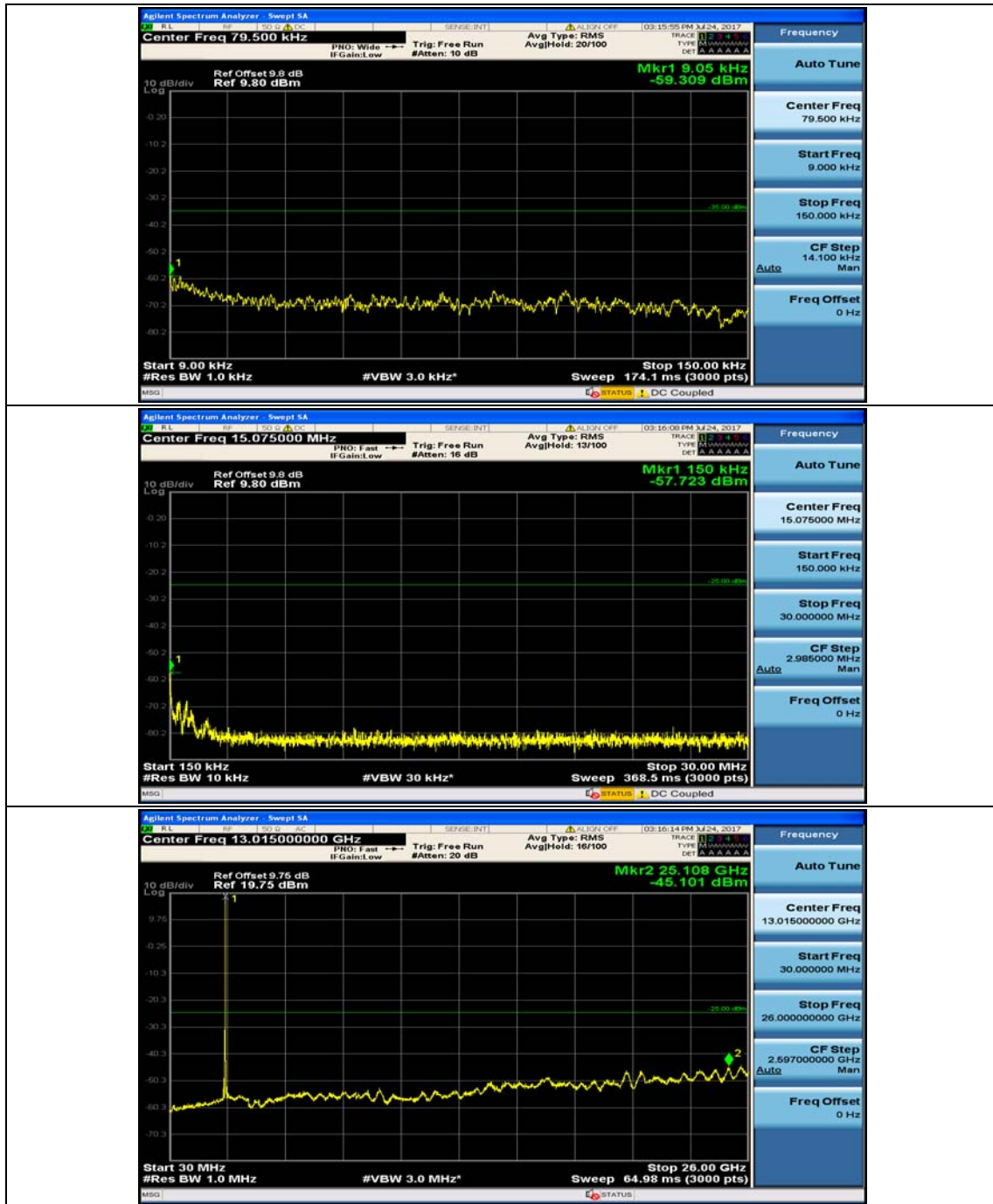


(Channel Bandwidth:20 MHz)_MCH_QPSK_1RB#0

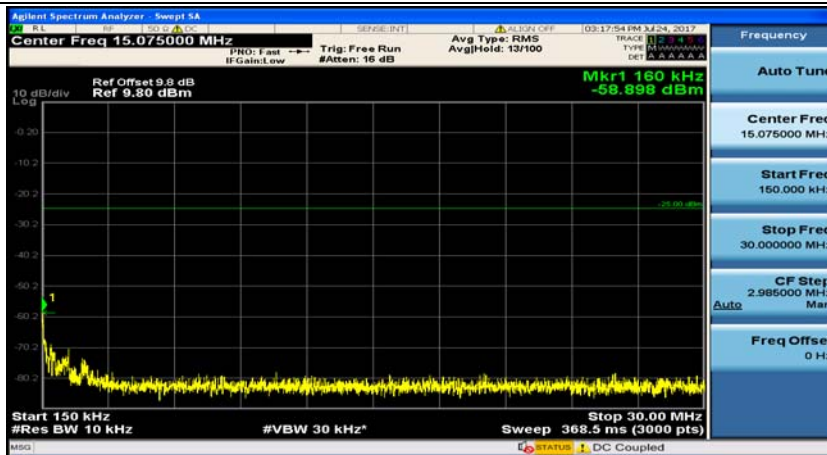
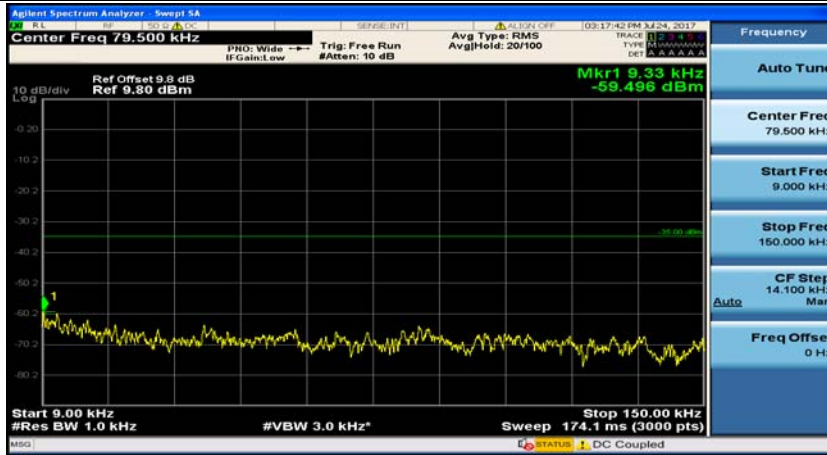


(Channel Bandwidth:20 MHz)_MCH_QPSK_1RB#49

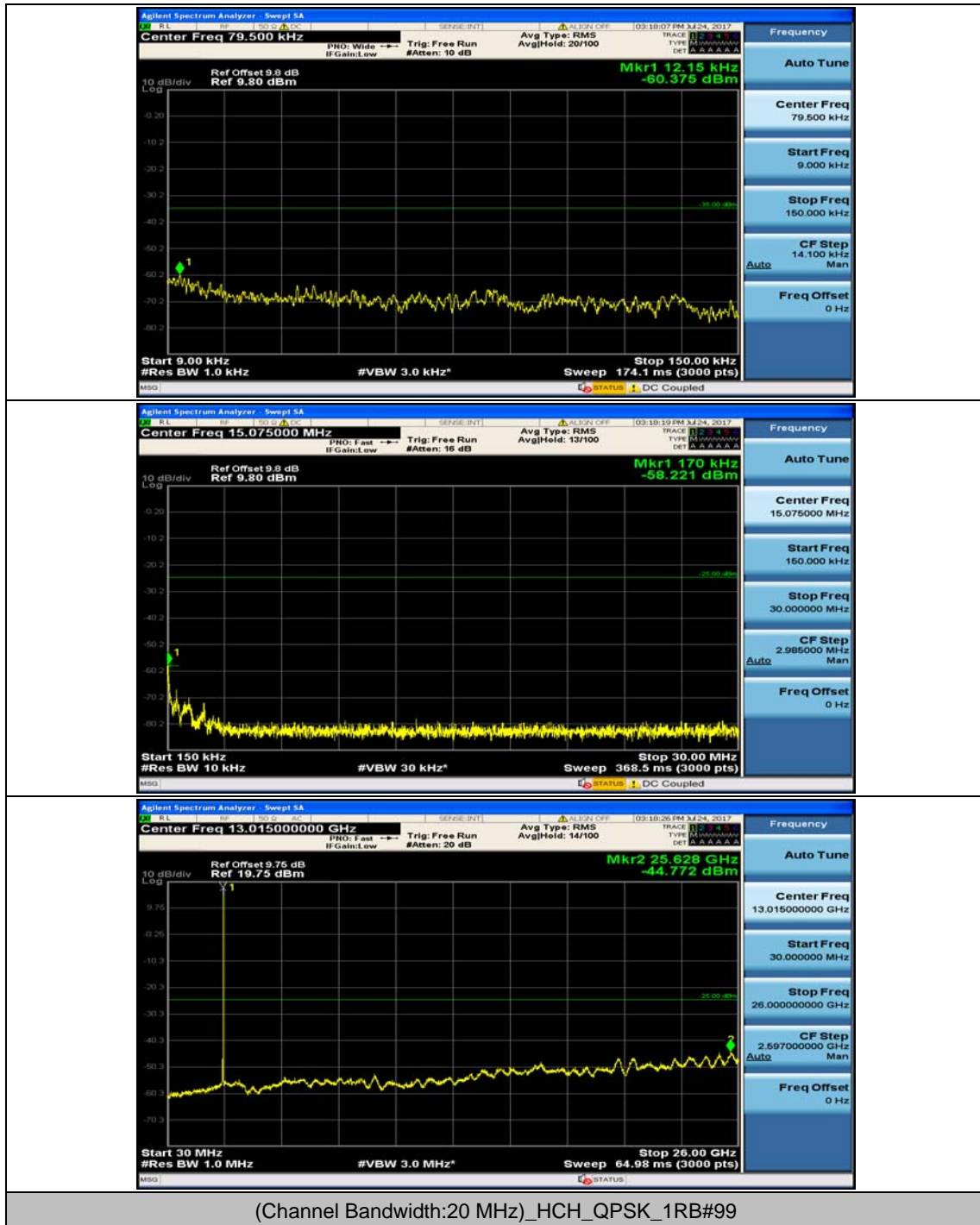


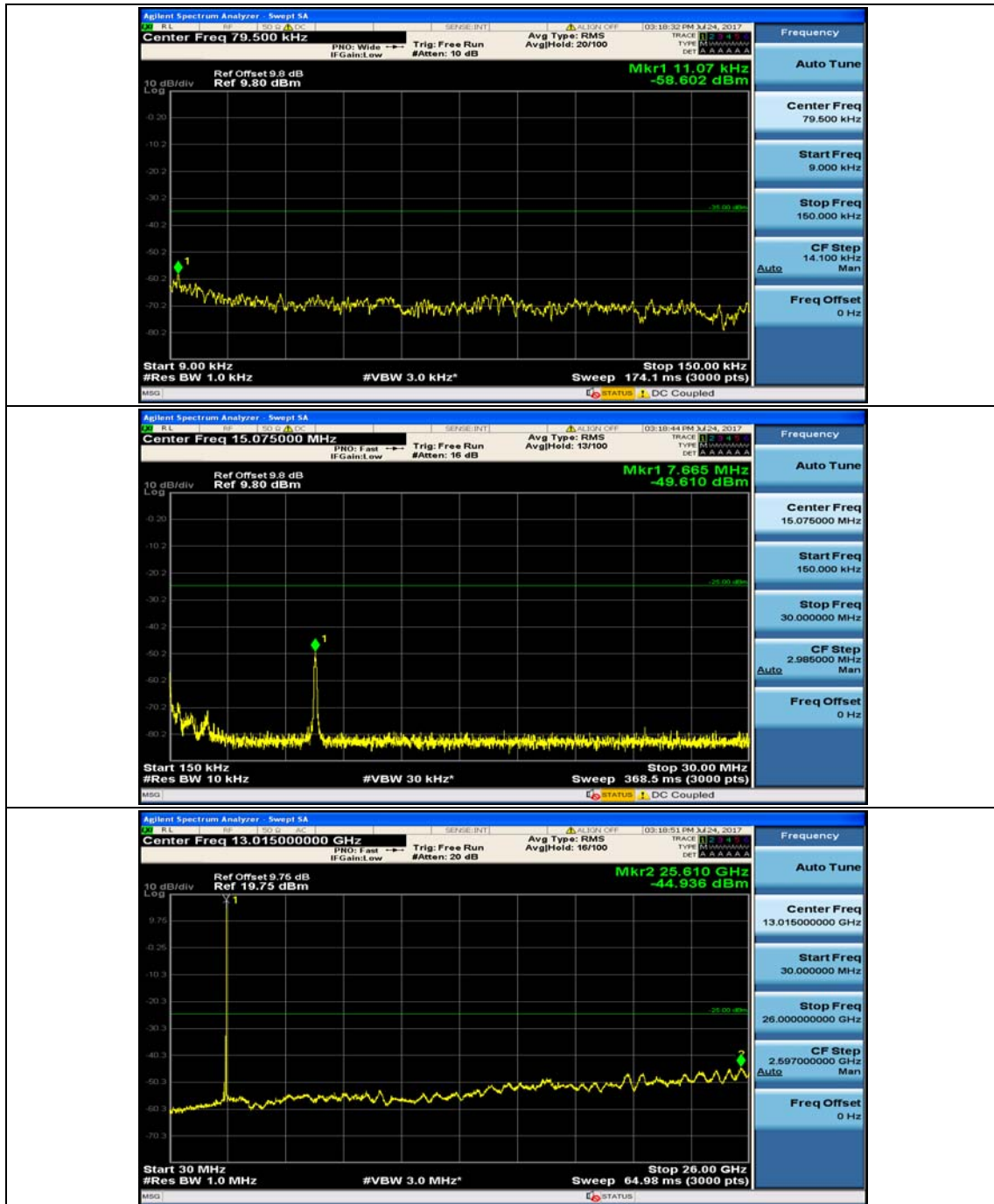


(Channel Bandwidth:20 MHz)_HCH_QPSK_1RB#0

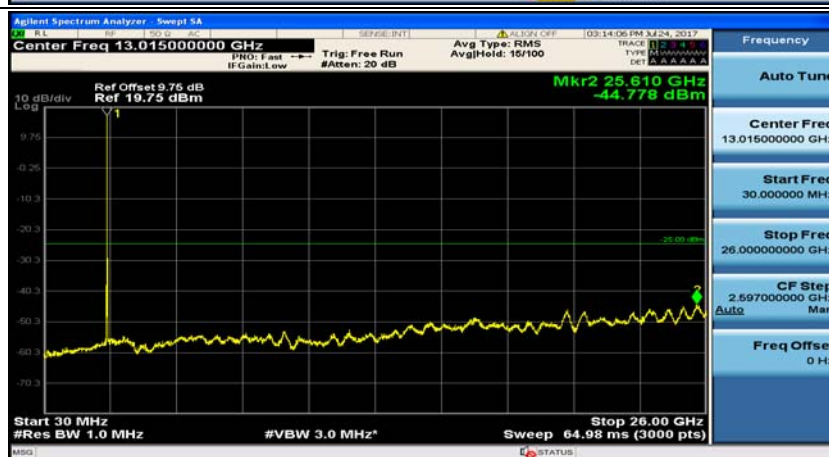
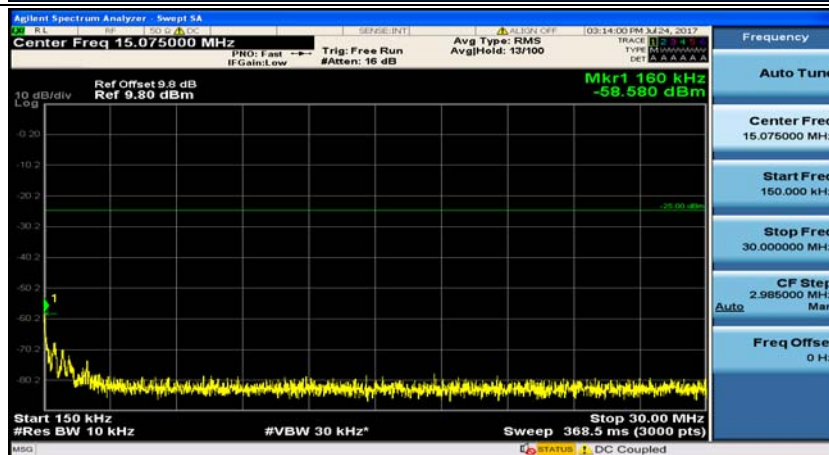
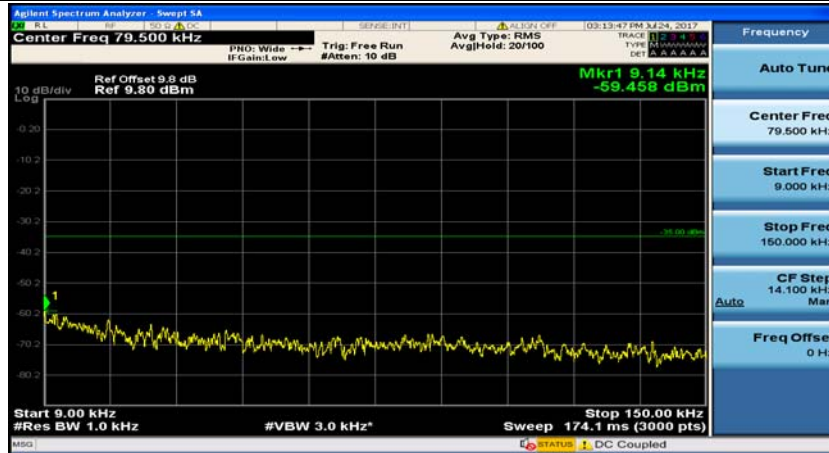


(Channel Bandwidth:20 MHz)_HCH_QPSK_1RB#49

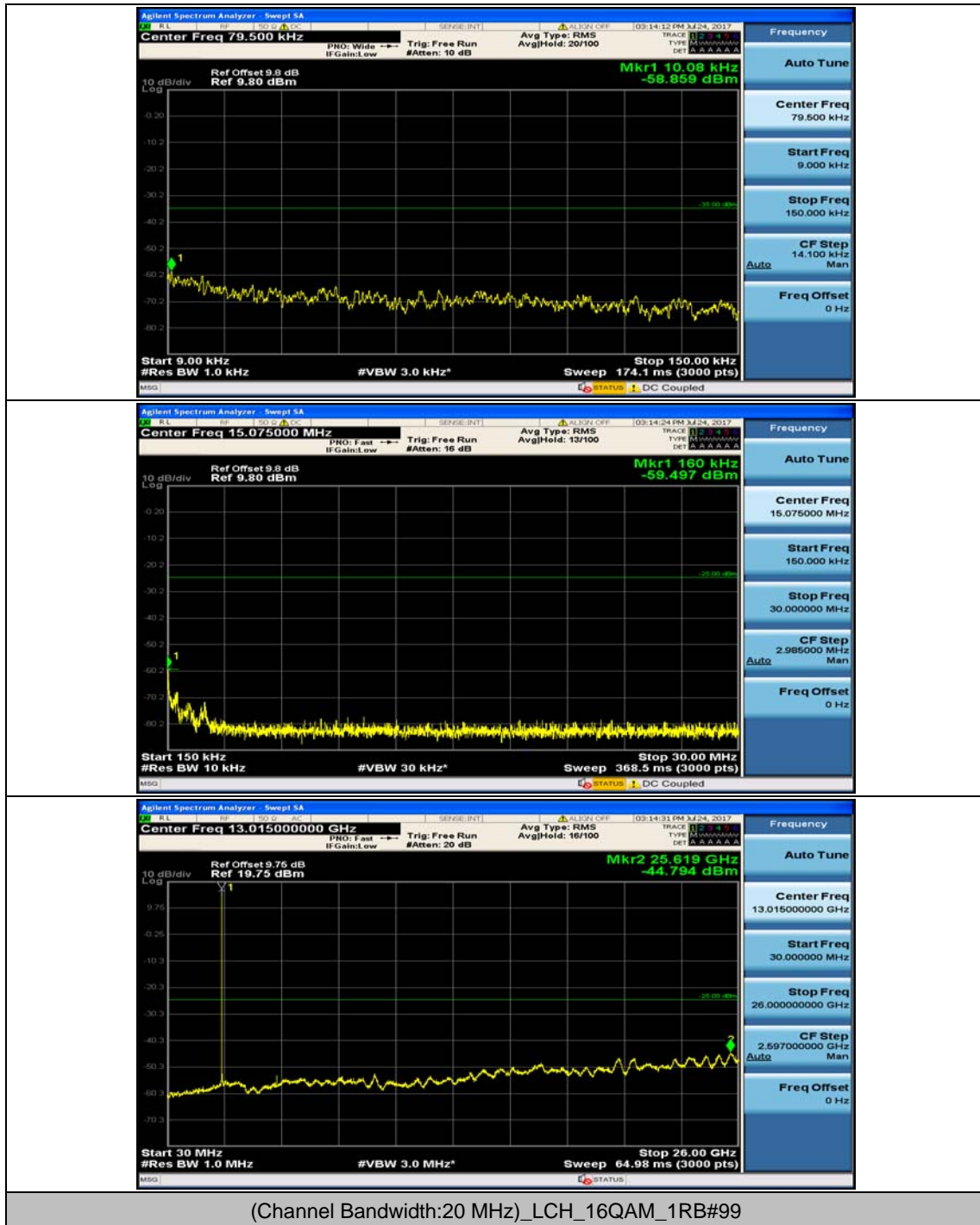


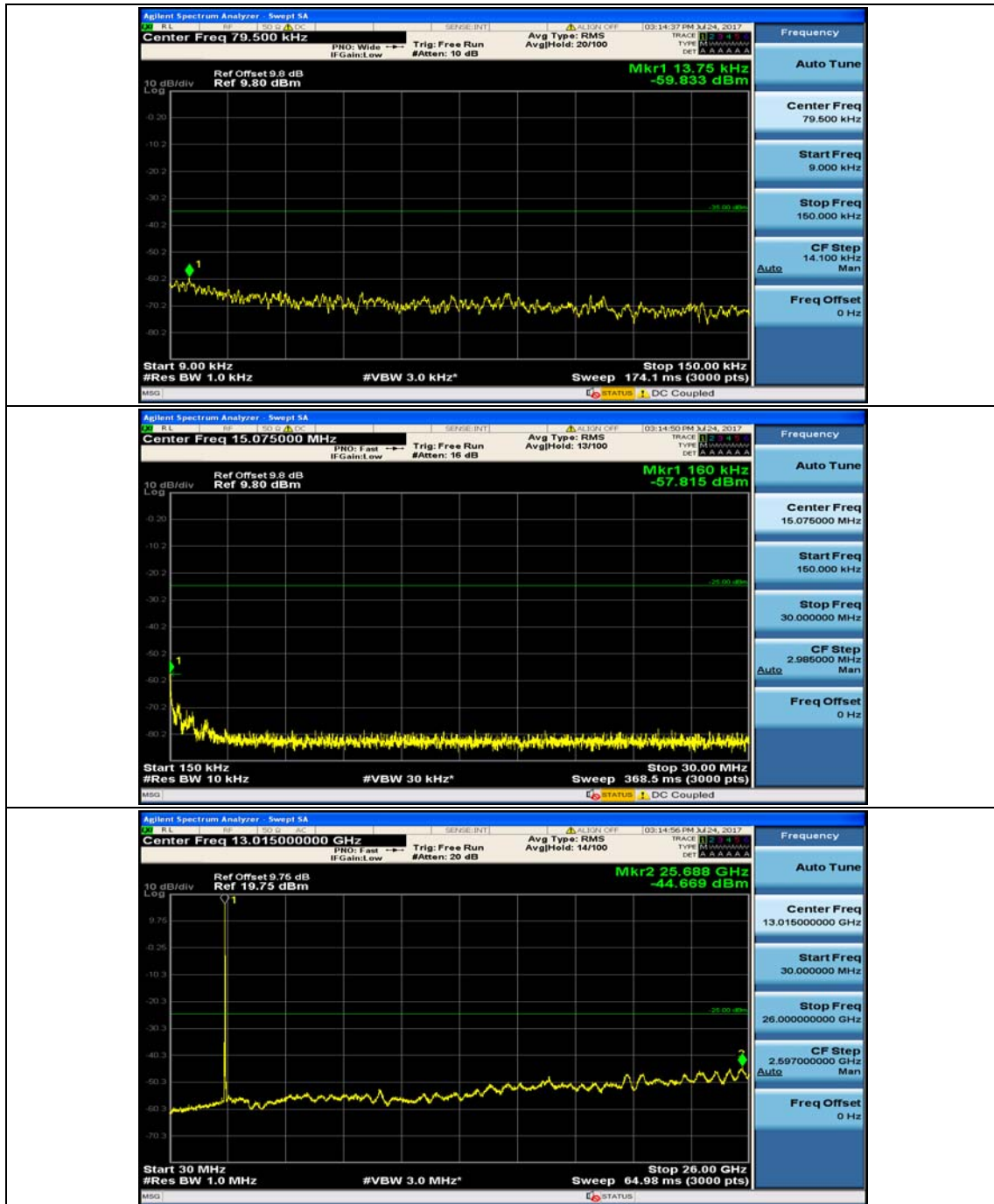


(Channel Bandwidth:20 MHz)_LCH_16QAM_1RB#0

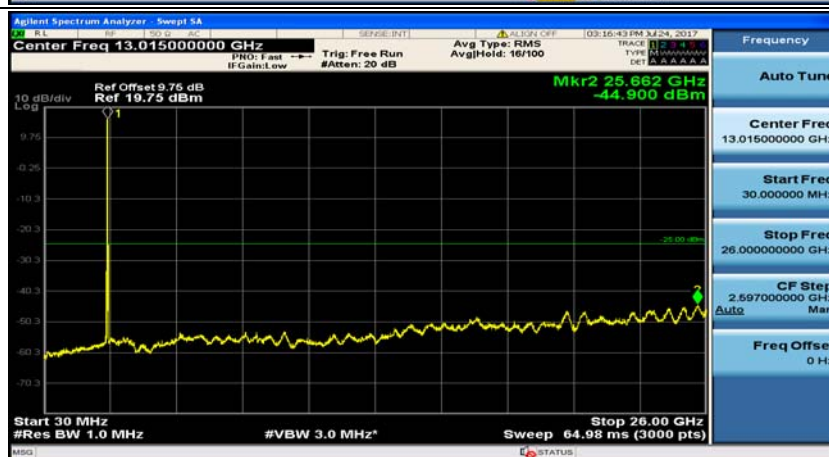
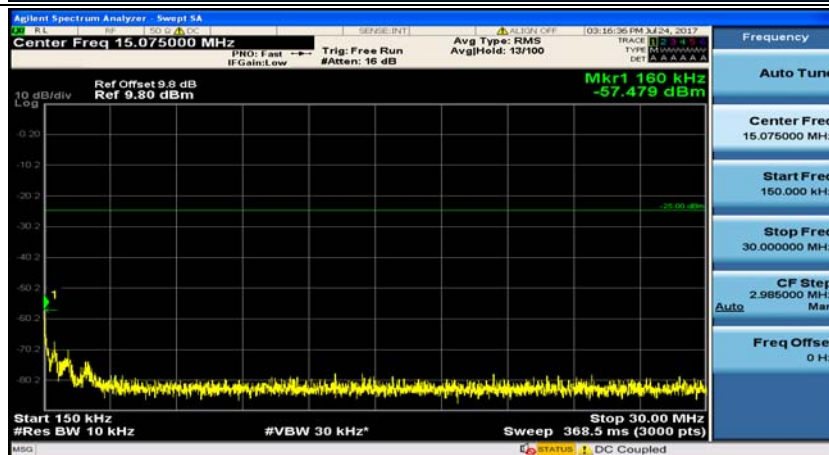
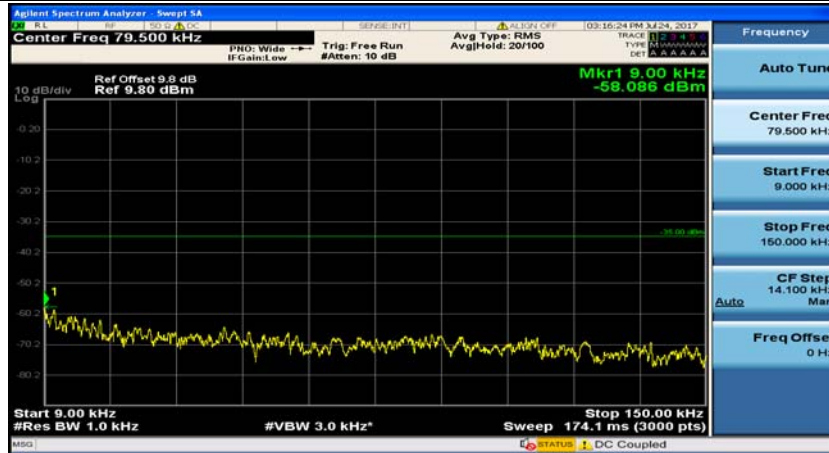


(Channel Bandwidth:20 MHz)_LCH_16QAM_1RB#49

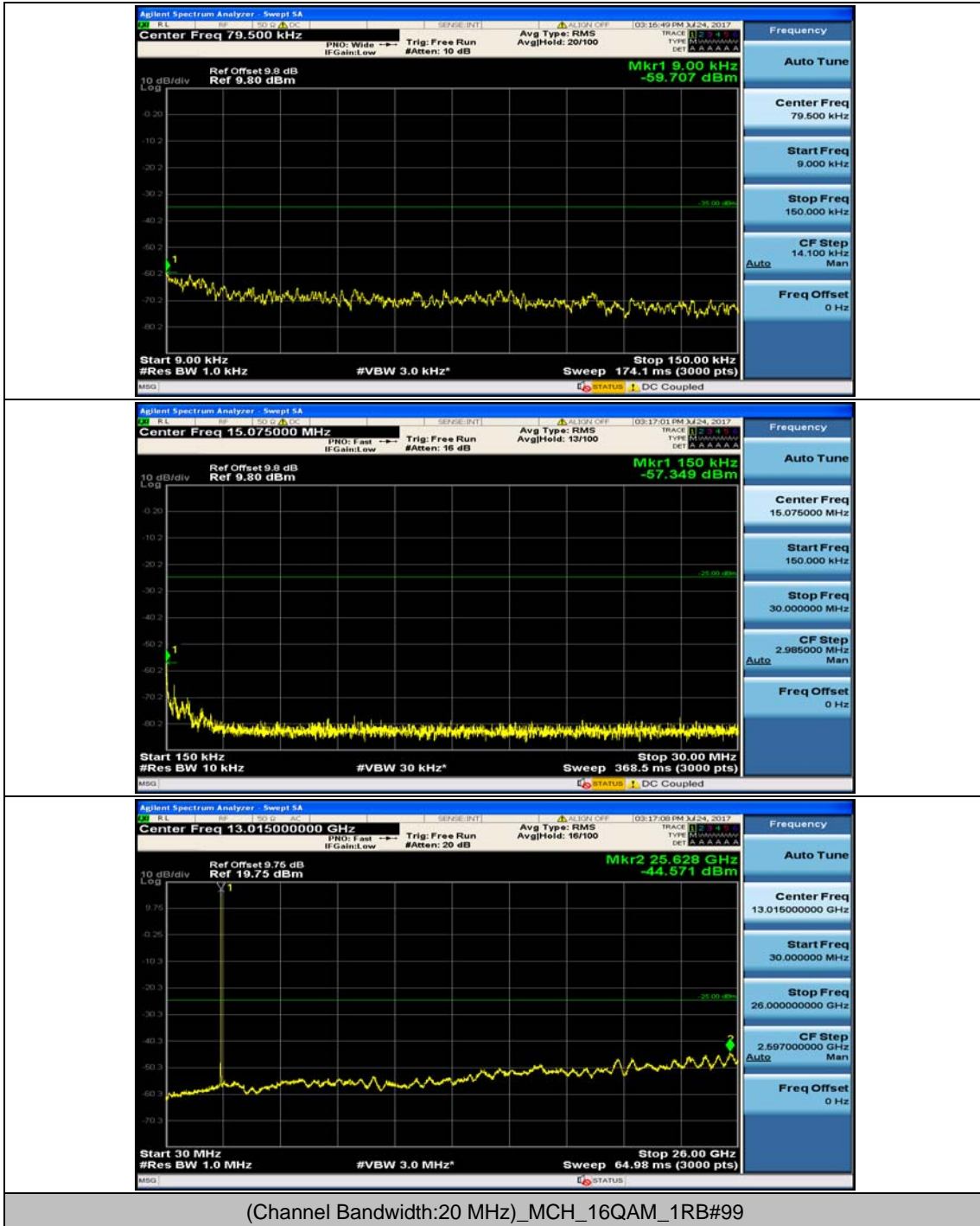


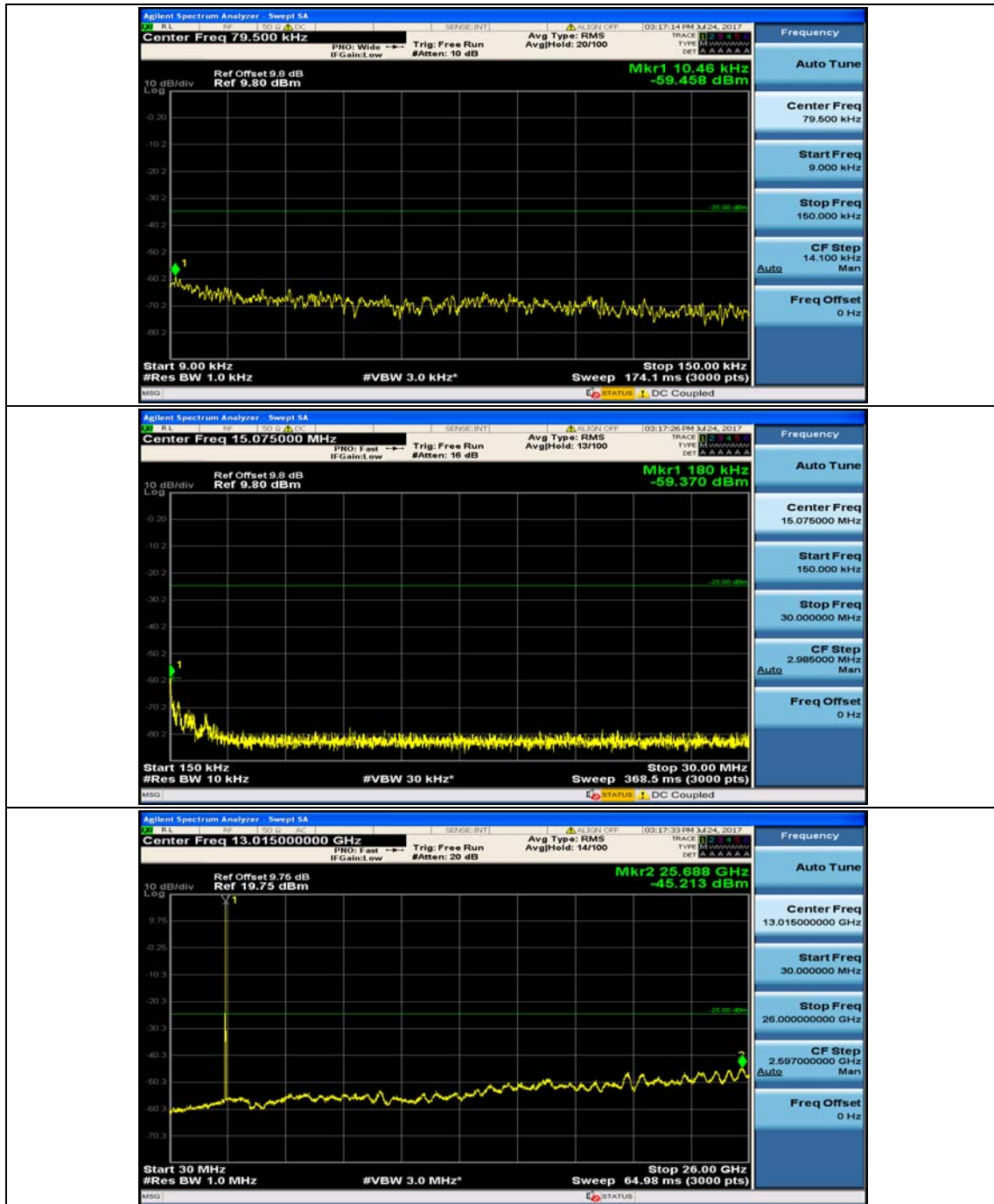


(Channel Bandwidth:20 MHz)_MCH_16QAM_1RB#0

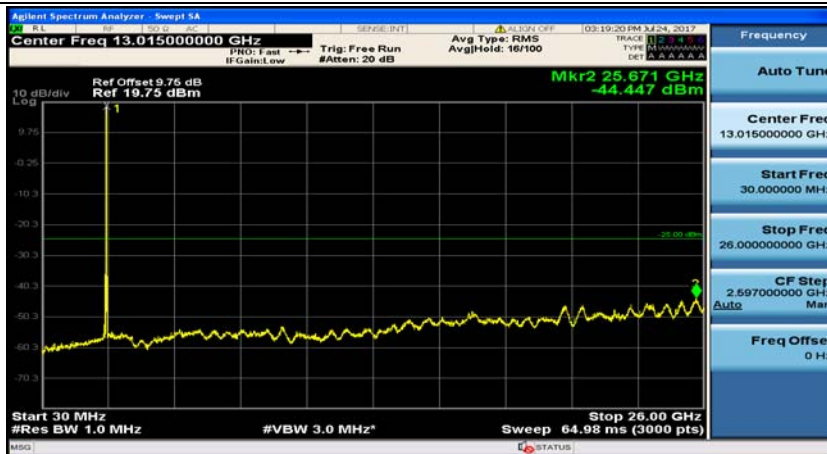
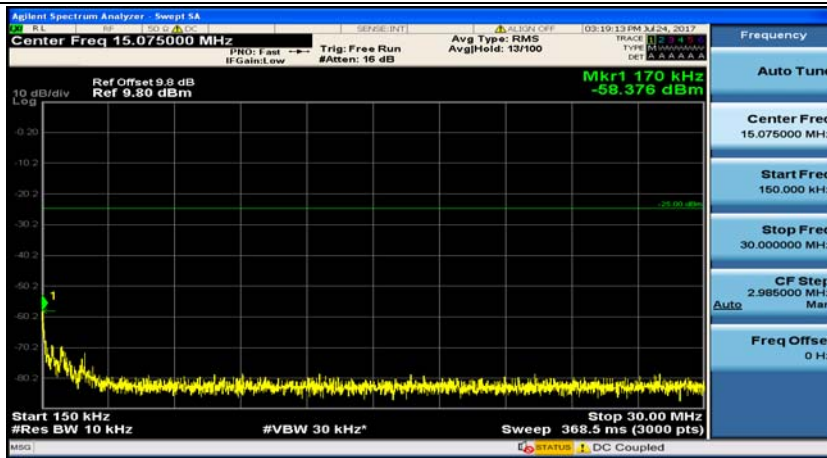
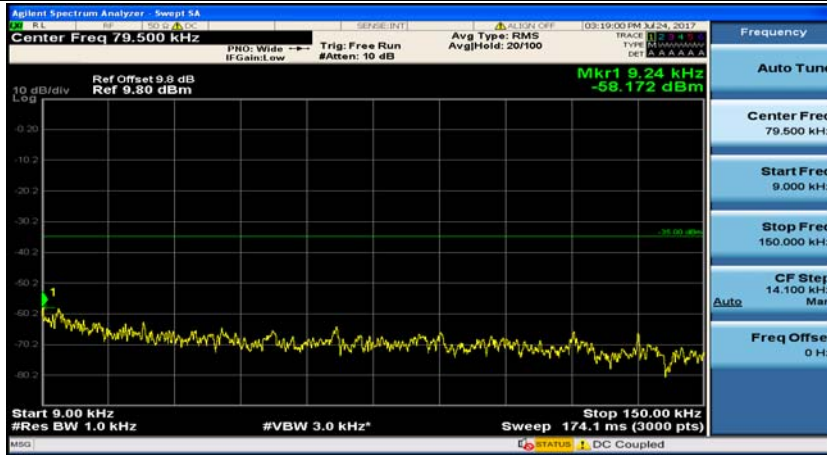


(Channel Bandwidth:20 MHz)_MCH_16QAM_1RB#49

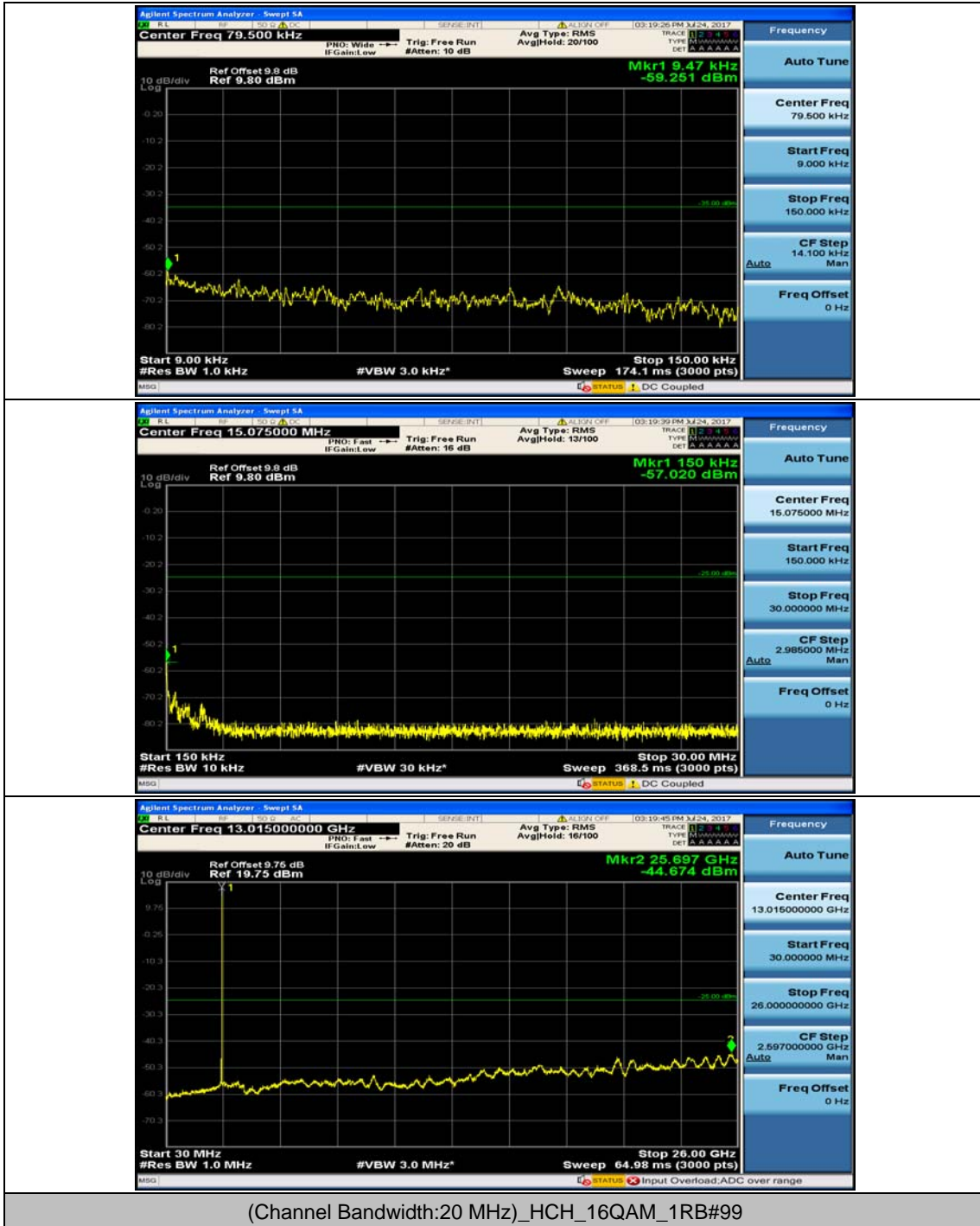


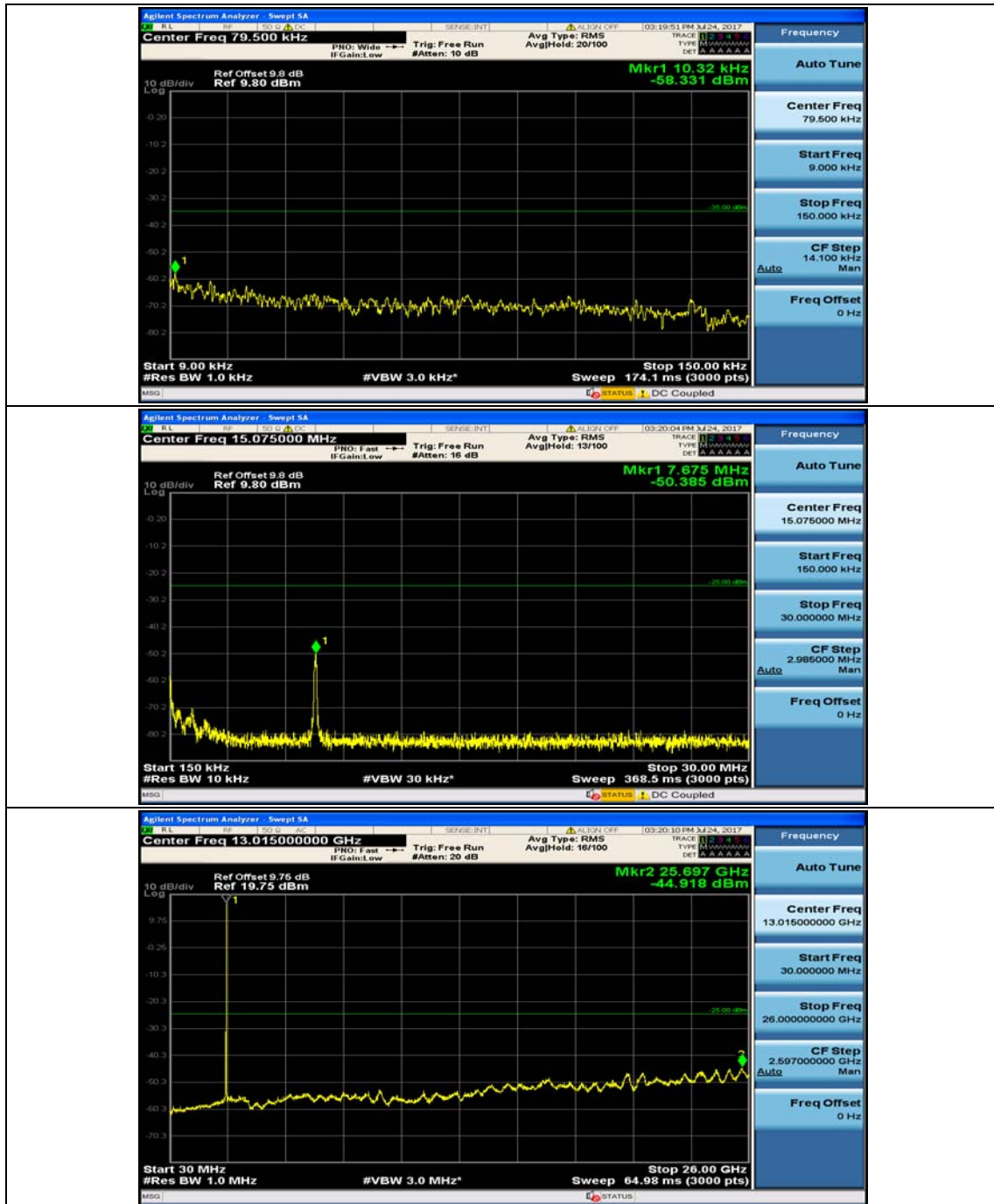


(Channel Bandwidth:20 MHz)_HCH_16QAM_1RB#0



(Channel Bandwidth:20 MHz)_HCH_16QAM_1RB#49





Appendix F: Frequency Stability

Test Result

Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	3.53	0.001406	± 2.5	PASS
		VN	TN	3.91	0.001558	± 2.5	PASS
		VH	TN	0.55	0.000219	± 2.5	PASS
	MCH	VL	TN	0.72	0.000284	± 2.5	PASS
		VN	TN	4.36	0.001720	± 2.5	PASS
		VH	TN	2.13	0.000840	± 2.5	PASS
	HCH	VL	TN	3.1	0.001211	± 2.5	PASS
		VN	TN	-0.83	-0.000324	± 2.5	PASS
		VH	TN	-0.1	-0.000039	± 2.5	PASS
16QAM	LCH	VL	TN	0.98	0.000390	± 2.5	PASS
		VN	TN	1.97	0.000785	± 2.5	PASS
		VH	TN	3.93	0.001566	± 2.5	PASS
	MCH	VL	TN	-0.97	-0.000383	± 2.5	PASS
		VN	TN	4.46	0.001759	± 2.5	PASS
		VH	TN	4.65	0.001834	± 2.5	PASS
	HCH	VL	TN	2.84	0.001109	± 2.5	PASS
		VN	TN	2.51	0.000980	± 2.5	PASS
		VH	TN	2.61	0.001020	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	#QPSK-L-5-F-L--30-Hz	#QPSK-L-5-F-L--30-ppm	± 2.5	PASS
		VN	-20	#QPSK-L-5-F-L--20-Hz	#QPSK-L-5-F-L--20-ppm	± 2.5	PASS
		VN	-10	#QPSK-L-5-F-L--10-Hz	#QPSK-L-5-F-L--10-ppm	± 2.5	PASS
		VN	0	#QPSK-L-5-F-L-0-Hz	#QPSK-L-5-F-L-0-ppm	± 2.5	PASS
		VN	10	#QPSK-L-5-F-L-10-Hz	#QPSK-L-5-F-L-10-ppm	± 2.5	PASS

		VN	20	#QPSK-L-5-F-L-20-Hz	#QPSK-L-5-F-L-20-ppm	± 2.5	PASS	
		VN	30	#QPSK-L-5-F-L-30-Hz	#QPSK-L-5-F-L-30-ppm	± 2.5	PASS	
		VN	40	#QPSK-L-5-F-L-40-Hz	#QPSK-L-5-F-L-40-ppm	± 2.5	PASS	
		VN	50	#QPSK-L-5-F-L-50-Hz	#QPSK-L-5-F-L-50-ppm	± 2.5	PASS	
	MCH	VN	-30	#QPSK-M-5-F-L--30-Hz	#QPSK-M-5-F-L--30-ppm	± 2.5	PASS	
		VN	-20	#QPSK-M-5-F-L--20-Hz	#QPSK-M-5-F-L--20-ppm	± 2.5	PASS	
		VN	-10	#QPSK-M-5-F-L--10-Hz	#QPSK-M-5-F-L--10-ppm	± 2.5	PASS	
		VN	0	#QPSK-M-5-F-L-0-Hz	#QPSK-M-5-F-L-0-ppm	± 2.5	PASS	
		VN	10	#QPSK-M-5-F-L-10-Hz	#QPSK-M-5-F-L-10-ppm	± 2.5	PASS	
		VN	20	#QPSK-M-5-F-L-20-Hz	#QPSK-M-5-F-L-20-ppm	± 2.5	PASS	
		VN	30	#QPSK-M-5-F-L-30-Hz	#QPSK-M-5-F-L-30-ppm	± 2.5	PASS	
		VN	40	#QPSK-M-5-F-L-40-Hz	#QPSK-M-5-F-L-40-ppm	± 2.5	PASS	
		VN	50	#QPSK-M-5-F-L-50-Hz	#QPSK-M-5-F-L-50-ppm	± 2.5	PASS	
	HCH	VN	-30	#QPSK-H-5-F-L--30-Hz	#QPSK-H-5-F-L--30-ppm	± 2.5	PASS	
		VN	-20	#QPSK-H-5-F-L--20-Hz	#QPSK-H-5-F-L--20-ppm	± 2.5	PASS	
		VN	-10	#QPSK-H-5-F-L--10-Hz	#QPSK-H-5-F-L--10-ppm	± 2.5	PASS	
		VN	0	#QPSK-H-5-F-L-0-Hz	#QPSK-H-5-F-L-0-ppm	± 2.5	PASS	
		VN	10	#QPSK-H-5-F-L-10-Hz	#QPSK-H-5-F-L-10-ppm	± 2.5	PASS	
		VN	20	#QPSK-H-5-F-L-20-Hz	#QPSK-H-5-F-L-20-ppm	± 2.5	PASS	
		VN	30	#QPSK-H-5-F-L-30-Hz	#QPSK-H-5-F-L-30-ppm	± 2.5	PASS	
		VN	40	#QPSK-H-5-F-L-40-Hz	#QPSK-H-5-F-L-40-ppm	± 2.5	PASS	
		VN	50	#QPSK-H-5-F-L-50-Hz	#QPSK-H-5-F-L-50-ppm	± 2.5	PASS	
	16QAM	LCH	VN	-30	#16QAM-L-5-F-L--30-Hz	#16QAM-L-5-F-L--30-ppm	± 2.5	PASS
			VN	-20	#16QAM-L-5-F-L--20-Hz	#16QAM-L-5-F-L--20-ppm	± 2.5	PASS
			VN	-10	#16QAM-L-5-F-L--10-Hz	#16QAM-L-5-F-L--10-ppm	± 2.5	PASS
			VN	0	#16QAM-L-5-F-L-0-Hz	#16QAM-L-5-F-L-0-ppm	± 2.5	PASS
			VN	10	#16QAM-L-5-F-L-10-Hz	#16QAM-L-5-F-L-10-ppm	± 2.5	PASS
			VN	20	#16QAM-L-5-F-L-20-Hz	#16QAM-L-5-F-L-20-ppm	± 2.5	PASS
			VN	30	#16QAM-L-5-F-L-30-Hz	#16QAM-L-5-F-L-30-ppm	± 2.5	PASS
			VN	40	#16QAM-L-5-F-L-40-Hz	#16QAM-L-5-F-L-40-ppm	± 2.5	PASS
			VN	50	#16QAM-L-5-F-L-50-Hz	#16QAM-L-5-F-L-50-ppm	± 2.5	PASS
		MCH	VN	-30	#16QAM-M-5-F-L--30-Hz	#16QAM-M-5-F-L--30-ppm	± 2.5	PASS
			VN	-20	#16QAM-M-5-F-L--20-Hz	#16QAM-M-5-F-L--20-ppm	± 2.5	PASS

	VN	-10	#16QAM-M-5-F-L--10-Hz	#16QAM-M-5-F-L--10-ppm	± 2.5	PASS	
		0	#16QAM-M-5-F-L-0-Hz	#16QAM-M-5-F-L-0-ppm	± 2.5	PASS	
		10	#16QAM-M-5-F-L-10-Hz	#16QAM-M-5-F-L-10-ppm	± 2.5	PASS	
		20	#16QAM-M-5-F-L-20-Hz	#16QAM-M-5-F-L-20-ppm	± 2.5	PASS	
		30	#16QAM-M-5-F-L-30-Hz	#16QAM-M-5-F-L-30-ppm	± 2.5	PASS	
		40	#16QAM-M-5-F-L-40-Hz	#16QAM-M-5-F-L-40-ppm	± 2.5	PASS	
		50	#16QAM-M-5-F-L-50-Hz	#16QAM-M-5-F-L-50-ppm	± 2.5	PASS	
	HCH	VN	-30	#16QAM-H-5-F-L--30-Hz	#16QAM-H-5-F-L--30-ppm	± 2.5	PASS
		VN	-20	#16QAM-H-5-F-L--20-Hz	#16QAM-H-5-F-L--20-ppm	± 2.5	PASS
		VN	-10	#16QAM-H-5-F-L--10-Hz	#16QAM-H-5-F-L--10-ppm	± 2.5	PASS
		VN	0	#16QAM-H-5-F-L-0-Hz	#16QAM-H-5-F-L-0-ppm	± 2.5	PASS
		VN	10	#16QAM-H-5-F-L-10-Hz	#16QAM-H-5-F-L-10-ppm	± 2.5	PASS
		VN	20	#16QAM-H-5-F-L-20-Hz	#16QAM-H-5-F-L-20-ppm	± 2.5	PASS
		VN	30	#16QAM-H-5-F-L-30-Hz	#16QAM-H-5-F-L-30-ppm	± 2.5	PASS
		VN	40	#16QAM-H-5-F-L-40-Hz	#16QAM-H-5-F-L-40-ppm	± 2.5	PASS
		VN	50	#16QAM-H-5-F-L-50-Hz	#16QAM-H-5-F-L-50-ppm	± 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	0.36	0.000143	± 2.5	PASS
		VN	TN	0.64	0.000255	± 2.5	PASS
		VH	TN	-0.71	-0.000283	± 2.5	PASS
	MCH	VL	TN	-0.66	-0.000260	± 2.5	PASS
		VN	TN	3.46	0.001365	± 2.5	PASS
		VH	TN	4.04	0.001594	± 2.5	PASS
	HCH	VL	TN	4.03	0.001574	± 2.5	PASS
		VN	TN	3.29	0.001285	± 2.5	PASS
		VH	TN	1.41	0.000551	± 2.5	PASS
16QAM	LCH	VL	TN	-1.5	-0.000598	± 2.5	PASS
		VN	TN	0.81	0.000323	± 2.5	PASS
		VH	TN	-1.16	-0.000462	± 2.5	PASS
	MCH	VL	TN	3.12	0.001231	± 2.5	PASS
		VN	TN	-1	-0.000394	± 2.5	PASS

		VH	TN	-0.39	-0.000154	± 2.5	PASS	
	HCH	VL	TN	-1.68	-0.000656	± 2.5	PASS	
		VN	TN	-0.04	-0.000016	± 2.5	PASS	
		VH	TN	3.49	0.001363	± 2.5	PASS	
Temperature								
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict	
16QAM	LCH	VN	-30	-0.11	-0.000044	± 2.5	PASS	
		VN	-20	0.98	0.000390	± 2.5	PASS	
		VN	-10	2.61	0.001040	± 2.5	PASS	
		VN	0	-0.02	-0.000008	± 2.5	PASS	
		VN	10	-1.79	-0.000713	± 2.5	PASS	
		VN	20	-1.99	-0.000793	± 2.5	PASS	
		VN	30	2.96	0.001179	± 2.5	PASS	
		VN	40	3.21	0.001279	± 2.5	PASS	
		VN	50	-1.63	-0.000649	± 2.5	PASS	
		MCH	VN	-30	1.32	0.000521	± 2.5	PASS
			VN	-20	2.76	0.001089	± 2.5	PASS
			VN	-10	0.53	0.000209	± 2.5	PASS
			VN	0	3.02	0.001191	± 2.5	PASS
			VN	10	4.13	0.001629	± 2.5	PASS
			VN	20	4.9	0.001933	± 2.5	PASS
			VN	30	-0.05	-0.000020	± 2.5	PASS
			VN	40	2.93	0.001156	± 2.5	PASS
			VN	50	3.38	0.001333	± 2.5	PASS
		HCH	VN	-30	1.1	0.000430	± 2.5	PASS
			VN	-20	4.64	0.001813	± 2.5	PASS
			VN	-10	4.39	0.001715	± 2.5	PASS
			VN	0	0.86	0.000336	± 2.5	PASS
			VN	10	1.29	0.000504	± 2.5	PASS
			VN	20	1.59	0.000621	± 2.5	PASS
			VN	30	4.26	0.001664	± 2.5	PASS
			VN	40	-1.84	-0.000719	± 2.5	PASS
			VN	50	-1.83	-0.000715	± 2.5	PASS
QPSK	LCH	VN	-30	4.53	0.001805	± 2.5	PASS	
		VN	-20	0.56	0.000223	± 2.5	PASS	
		VN	-10	4.8	0.001912	± 2.5	PASS	
		VN	0	-1.58	-0.000629	± 2.5	PASS	
		VN	10	2.93	0.001167	± 2.5	PASS	
		VN	20	0.36	0.000143	± 2.5	PASS	
		VN	30	-1.89	-0.000753	± 2.5	PASS	
		VN	40	4.05	0.001614	± 2.5	PASS	

	MCH	VN	50	2.69	0.001072	± 2.5	PASS
		VN	-30	4.99	0.001968	± 2.5	PASS
		VN	-20	0.91	0.000359	± 2.5	PASS
		VN	-10	2.33	0.000919	± 2.5	PASS
		VN	0	1.69	0.000667	± 2.5	PASS
		VN	10	3.12	0.001231	± 2.5	PASS
		VN	20	1.78	0.000702	± 2.5	PASS
		VN	30	1.99	0.000785	± 2.5	PASS
		VN	40	-1.53	-0.000604	± 2.5	PASS
		VN	50	-0.61	-0.000241	± 2.5	PASS
	HCH	VN	-30	2.07	0.000809	± 2.5	PASS
		VN	-20	0.75	0.000293	± 2.5	PASS
		VN	-10	1.07	0.000418	± 2.5	PASS
		VN	0	-1.12	-0.000438	± 2.5	PASS
		VN	10	3.65	0.001426	± 2.5	PASS
		VN	20	2.2	0.000859	± 2.5	PASS
		VN	30	-0.2	-0.000078	± 2.5	PASS
		VN	40	-1.89	-0.000738	± 2.5	PASS
		VN	50	3.58	0.001398	± 2.5	PASS

Channel Bandwidth: 15 MHz

Channel Bandwidth: 15 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	-1.71	-0.000681	± 2.5	PASS
		VN	TN	-0.28	-0.000112	± 2.5	PASS
		VH	TN	1.3	0.000518	± 2.5	PASS
	MCH	VL	TN	-0.08	-0.000032	± 2.5	PASS
		VN	TN	4.67	0.001842	± 2.5	PASS
		VH	TN	3.04	0.001199	± 2.5	PASS
	HCH	VL	TN	1.97	0.000770	± 2.5	PASS
		VN	TN	2.12	0.000828	± 2.5	PASS
		VH	TN	-0.04	-0.000016	± 2.5	PASS
16QAM	LCH	VL	TN	3.86	0.001538	± 2.5	PASS
		VN	TN	0.95	0.000378	± 2.5	PASS
		VH	TN	3.05	0.001215	± 2.5	PASS
	MCH	VL	TN	-1.19	-0.000469	± 2.5	PASS
		VN	TN	-1.96	-0.000773	± 2.5	PASS
		VH	TN	2.28	0.000899	± 2.5	PASS
	HCH	VL	TN	3.18	0.001242	± 2.5	PASS

		VN	TN	-0.86	-0.000336	± 2.5	PASS
		VH	TN	4.13	0.001613	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	2.95	0.001175	± 2.5	PASS
		VN	-20	-0.68	-0.000271	± 2.5	PASS
		VN	-10	3.15	0.001255	± 2.5	PASS
		VN	0	0.67	0.000267	± 2.5	PASS
		VN	10	3.73	0.001486	± 2.5	PASS
		VN	20	-1.42	-0.000566	± 2.5	PASS
		VN	30	-0.66	-0.000263	± 2.5	PASS
		VN	40	0.26	0.000104	± 2.5	PASS
		VN	50	0.49	0.000195	± 2.5	PASS
	MCH	VN	-30	1.19	0.000469	± 2.5	PASS
		VN	-20	-0.84	-0.000331	± 2.5	PASS
		VN	-10	0.11	0.000043	± 2.5	PASS
		VN	0	4.17	0.001645	± 2.5	PASS
		VN	10	-0.68	-0.000268	± 2.5	PASS
		VN	20	1.58	0.000623	± 2.5	PASS
		VN	30	-1.56	-0.000615	± 2.5	PASS
		VN	40	3.16	0.001247	± 2.5	PASS
		VN	50	-1.31	-0.000517	± 2.5	PASS
	HCH	VN	-30	0.28	0.000109	± 2.5	PASS
		VN	-20	-0.96	-0.000375	± 2.5	PASS
		VN	-10	2.91	0.001137	± 2.5	PASS
		VN	0	-1.04	-0.000406	± 2.5	PASS
		VN	10	1.38	0.000539	± 2.5	PASS
		VN	20	0.36	0.000141	± 2.5	PASS
		VN	30	1.3	0.000508	± 2.5	PASS
		VN	40	4.07	0.001590	± 2.5	PASS
		VN	50	-1.07	-0.000418	± 2.5	PASS
QPSK	LCH	VN	-30	-0.38	-0.000151	± 2.5	PASS
		VN	-20	0.35	0.000139	± 2.5	PASS
		VN	-10	-0.4	-0.000159	± 2.5	PASS
		VN	0	-0.25	-0.000100	± 2.5	PASS
		VN	10	3.81	0.001518	± 2.5	PASS
		VN	20	4.03	0.001606	± 2.5	PASS
		VN	30	-1.71	-0.000681	± 2.5	PASS
		VN	40	0.07	0.000028	± 2.5	PASS
		VN	50	4.36	0.001737	± 2.5	PASS
	MCH	VN	-30	0.5	0.000197	± 2.5	PASS

		VN	-20	0.62	0.000245	± 2.5	PASS
		VN	-10	-0.06	-0.000024	± 2.5	PASS
		VN	0	1.89	0.000746	± 2.5	PASS
		VN	10	3.02	0.001191	± 2.5	PASS
		VN	20	2.88	0.001136	± 2.5	PASS
		VN	30	4.46	0.001759	± 2.5	PASS
		VN	40	2.19	0.000864	± 2.5	PASS
		VN	50	4.4	0.001736	± 2.5	PASS
	HCH	VN	-30	-1.3	-0.000508	± 2.5	PASS
		VN	-20	3.29	0.001285	± 2.5	PASS
		VN	-10	-1.79	-0.000699	± 2.5	PASS
		VN	0	1.39	0.000543	± 2.5	PASS
		VN	10	-1.52	-0.000594	± 2.5	PASS
		VN	20	3.08	0.001203	± 2.5	PASS
		VN	30	1.45	0.000566	± 2.5	PASS
		VN	40	3.08	0.001203	± 2.5	PASS
		VN	50	2.83	0.001105	± 2.5	PASS

Channel Bandwidth: 20 MHz

Channel Bandwidth: 20 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	3.67	0.001462	± 2.5	PASS
		VN	TN	0.51	0.000203	± 2.5	PASS
		VH	TN	-1.66	-0.000661	± 2.5	PASS
	MCH	VL	TN	1.57	0.000619	± 2.5	PASS
		VN	TN	-1.66	-0.000655	± 2.5	PASS
		VH	TN	3.23	0.001274	± 2.5	PASS
	HCH	VL	TN	4.35	0.001699	± 2.5	PASS
		VN	TN	3.77	0.001473	± 2.5	PASS
		VH	TN	2.91	0.001137	± 2.5	PASS
16QAM	LCH	VL	TN	3.37	0.001343	± 2.5	PASS
		VN	TN	-0.88	-0.000351	± 2.5	PASS
		VH	TN	1.17	0.000466	± 2.5	PASS
	MCH	VL	TN	1.15	0.000454	± 2.5	PASS
		VN	TN	3.36	0.001325	± 2.5	PASS
		VH	TN	1.85	0.000730	± 2.5	PASS
	HCH	VL	TN	1.33	0.000520	± 2.5	PASS
		VN	TN	4.1	0.001602	± 2.5	PASS
		VH	TN	-1.98	-0.000773	± 2.5	PASS

Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-1.55	-0.000618	± 2.5	PASS
		VN	-20	2.77	0.001104	± 2.5	PASS
		VN	-10	2.12	0.000845	± 2.5	PASS
		VN	0	2	0.000797	± 2.5	PASS
		VN	10	-0.9	-0.000359	± 2.5	PASS
		VN	20	-0.98	-0.000390	± 2.5	PASS
		VN	30	4.7	0.001873	± 2.5	PASS
		VN	40	3.82	0.001522	± 2.5	PASS
		VN	50	-1.86	-0.000741	± 2.5	PASS
	MCH	VN	-30	-2	-0.000789	± 2.5	PASS
		VN	-20	1.91	0.000753	± 2.5	PASS
		VN	-10	4.6	0.001815	± 2.5	PASS
		VN	0	2.14	0.000844	± 2.5	PASS
		VN	10	4.39	0.001732	± 2.5	PASS
		VN	20	2.23	0.000880	± 2.5	PASS
		VN	30	1.17	0.000462	± 2.5	PASS
		VN	40	4.93	0.001945	± 2.5	PASS
		VN	50	-1.04	-0.000410	± 2.5	PASS
	HCH	VN	-30	0.24	0.000094	± 2.5	PASS
		VN	-20	1.78	0.000695	± 2.5	PASS
		VN	-10	-1.4	-0.000547	± 2.5	PASS
		VN	0	-1.4	-0.000547	± 2.5	PASS
		VN	10	0.46	0.000180	± 2.5	PASS
		VN	20	1.04	0.000406	± 2.5	PASS
		VN	30	-1.22	-0.000477	± 2.5	PASS
		VN	40	-1.81	-0.000707	± 2.5	PASS
		VN	50	2.67	0.001043	± 2.5	PASS
QPSK	LCH	VN	-30	-1.69	-0.000673	± 2.5	PASS
		VN	-20	2.43	0.000968	± 2.5	PASS
		VN	-10	3.84	0.001530	± 2.5	PASS
		VN	0	-1.28	-0.000510	± 2.5	PASS
		VN	10	1.01	0.000402	± 2.5	PASS
		VN	20	4.18	0.001665	± 2.5	PASS
		VN	30	4.9	0.001952	± 2.5	PASS
		VN	40	0.25	0.000100	± 2.5	PASS
		VN	50	2.87	0.001143	± 2.5	PASS
	MCH	VN	-30	-0.85	-0.000335	± 2.5	PASS
		VN	-20	3.39	0.001337	± 2.5	PASS
		VN	-10	1.48	0.000584	± 2.5	PASS

		VN	0	2.07	0.000817	± 2.5	PASS
		VN	10	-1.87	-0.000738	± 2.5	PASS
		VN	20	2.04	0.000805	± 2.5	PASS
		VN	30	-1.37	-0.000540	± 2.5	PASS
		VN	40	1.14	0.000450	± 2.5	PASS
		VN	50	3.94	0.001554	± 2.5	PASS
	HCH	VN	-30	2.6	0.001016	± 2.5	PASS
		VN	-20	4.49	0.001754	± 2.5	PASS
		VN	-10	-1.88	-0.000734	± 2.5	PASS
		VN	0	1.18	0.000461	± 2.5	PASS
		VN	10	4.22	0.001648	± 2.5	PASS
		VN	20	-1.83	-0.000715	± 2.5	PASS
		VN	30	3.89	0.001520	± 2.5	PASS
		VN	40	4.92	0.001922	± 2.5	PASS
		VN	50	1.74	0.000680	± 2.5	PASS