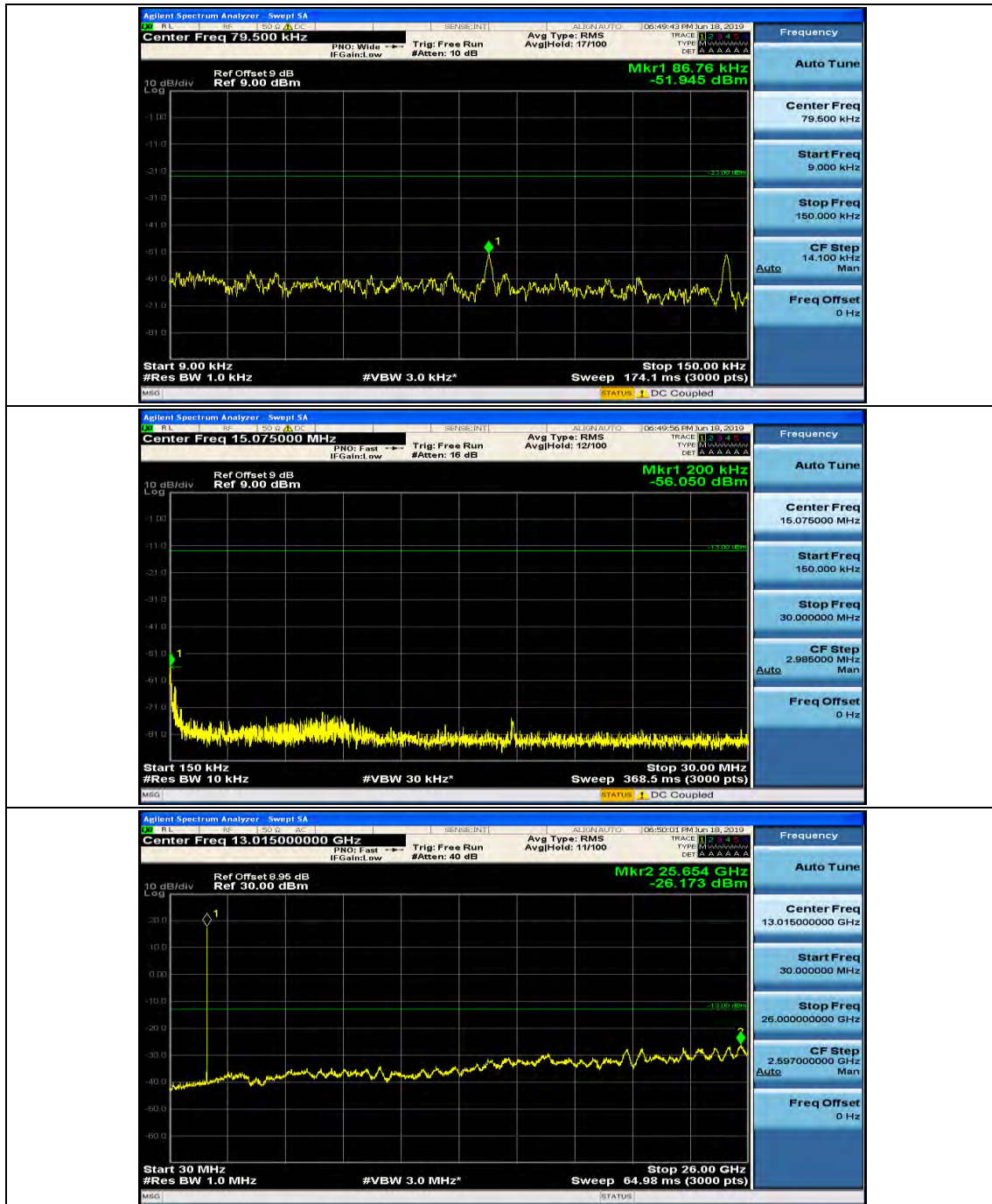
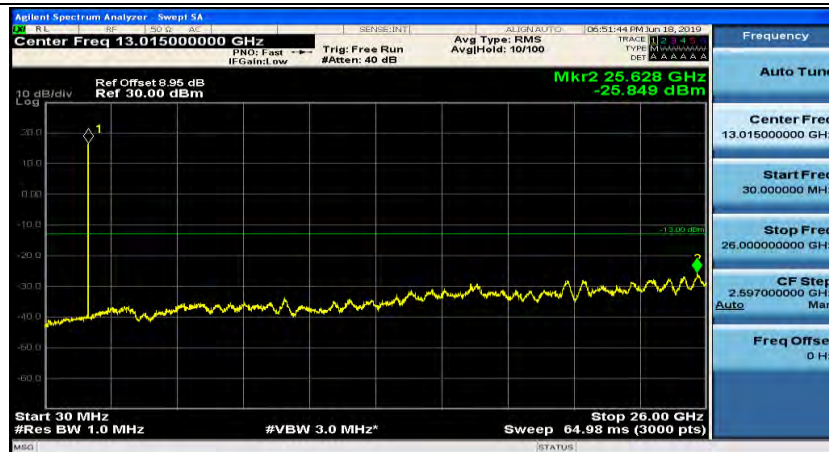
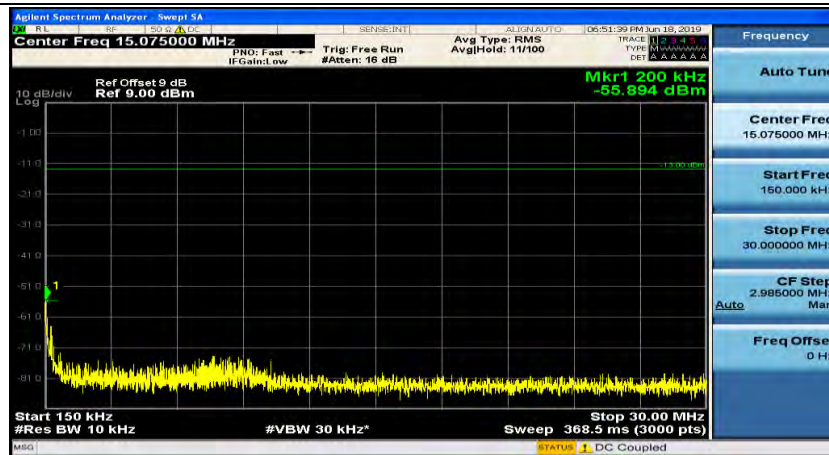
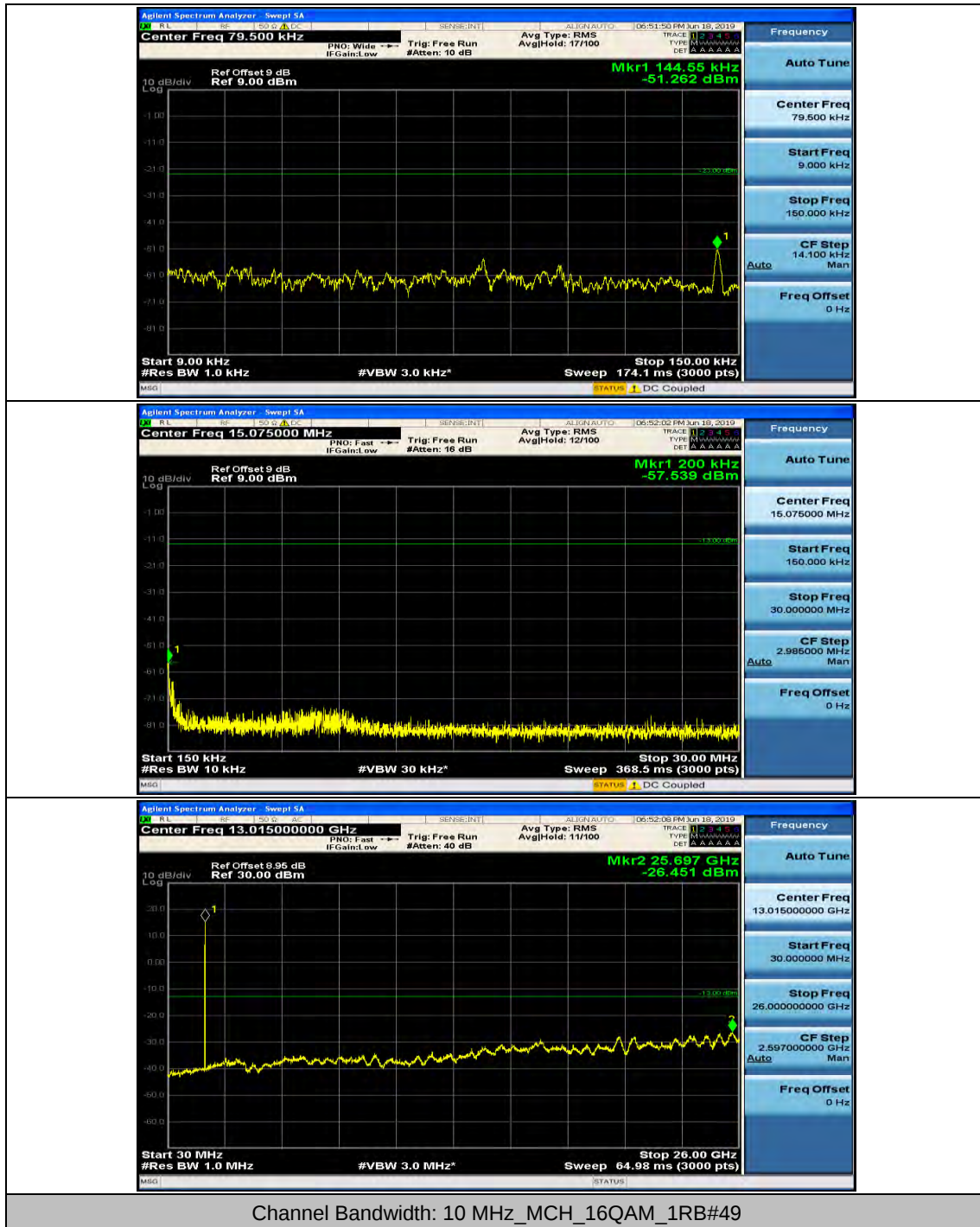


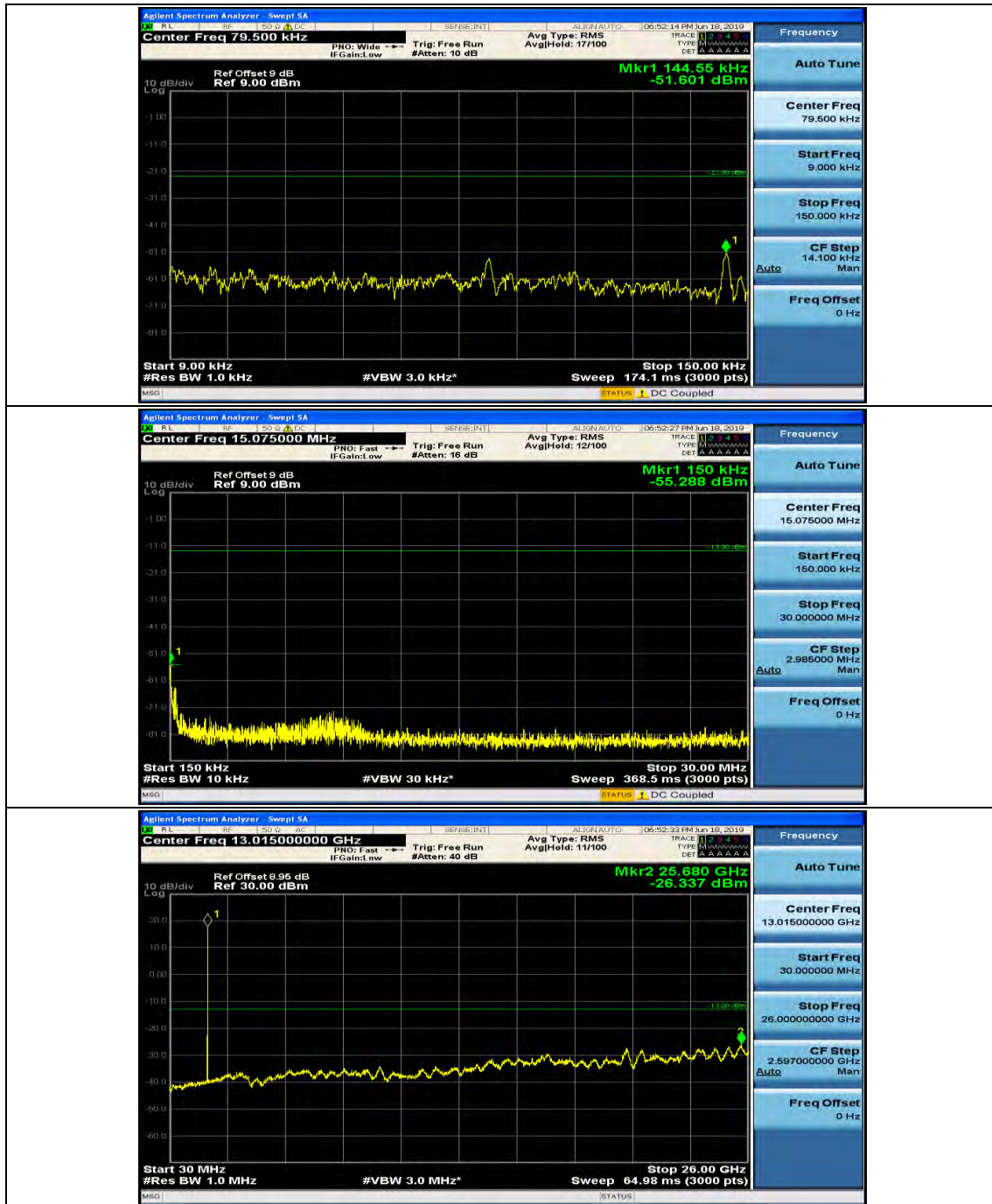


Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#0

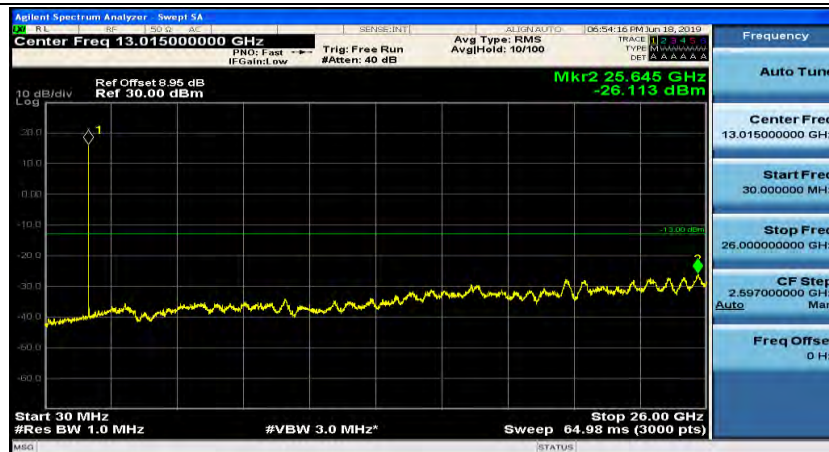
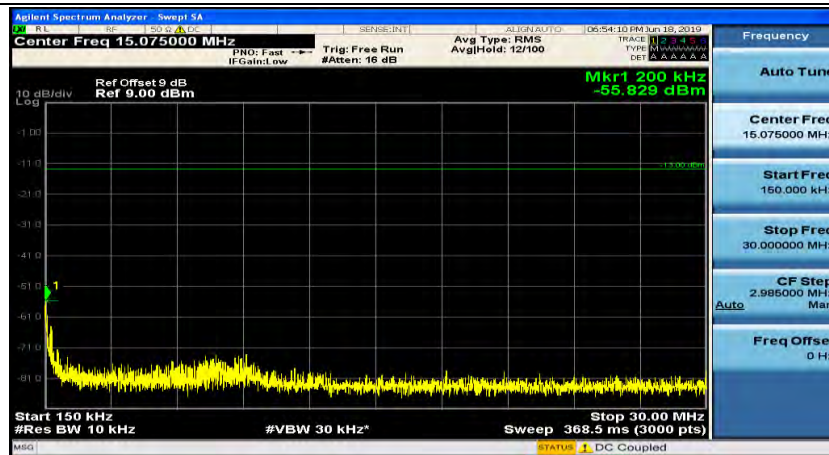


Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#24

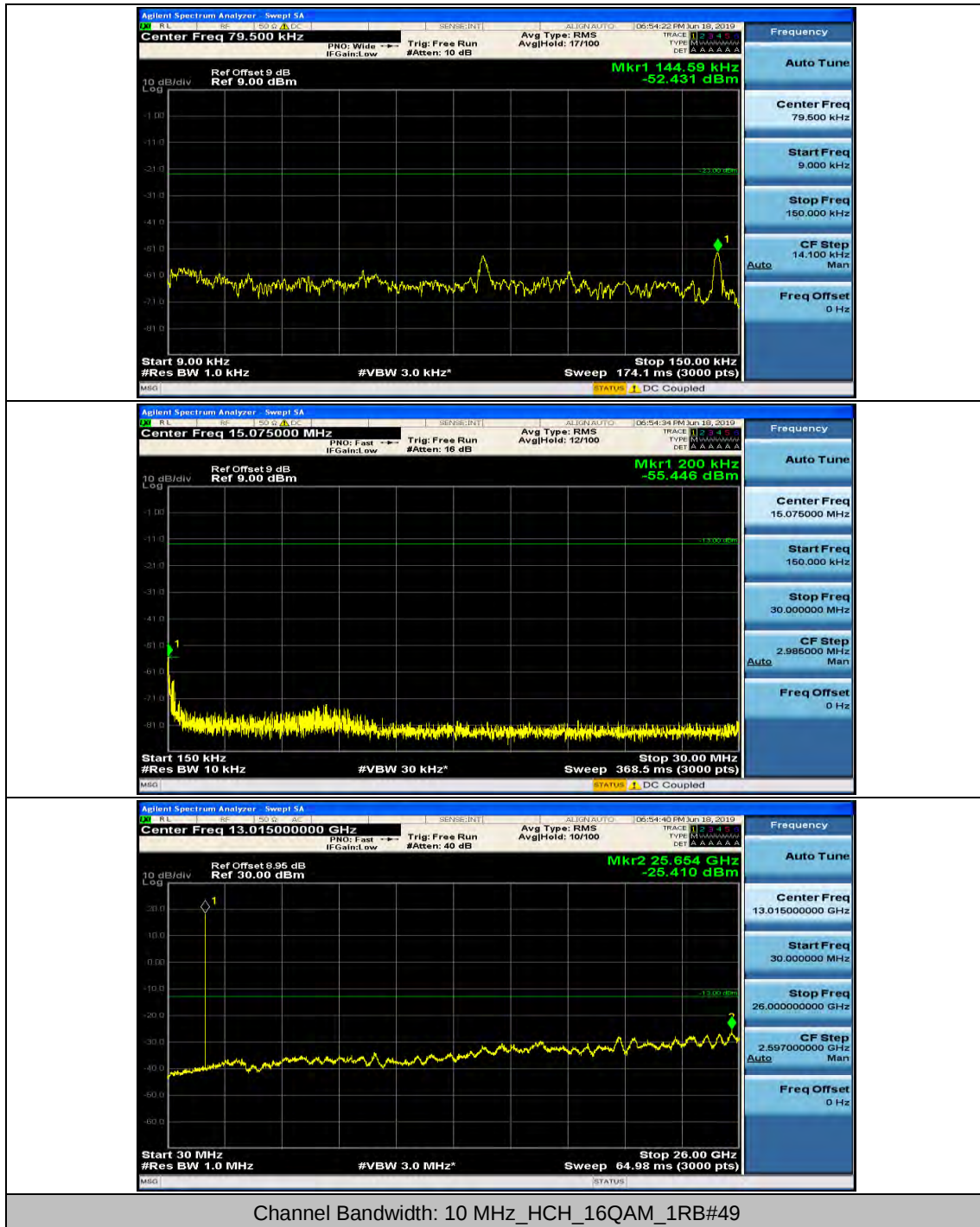


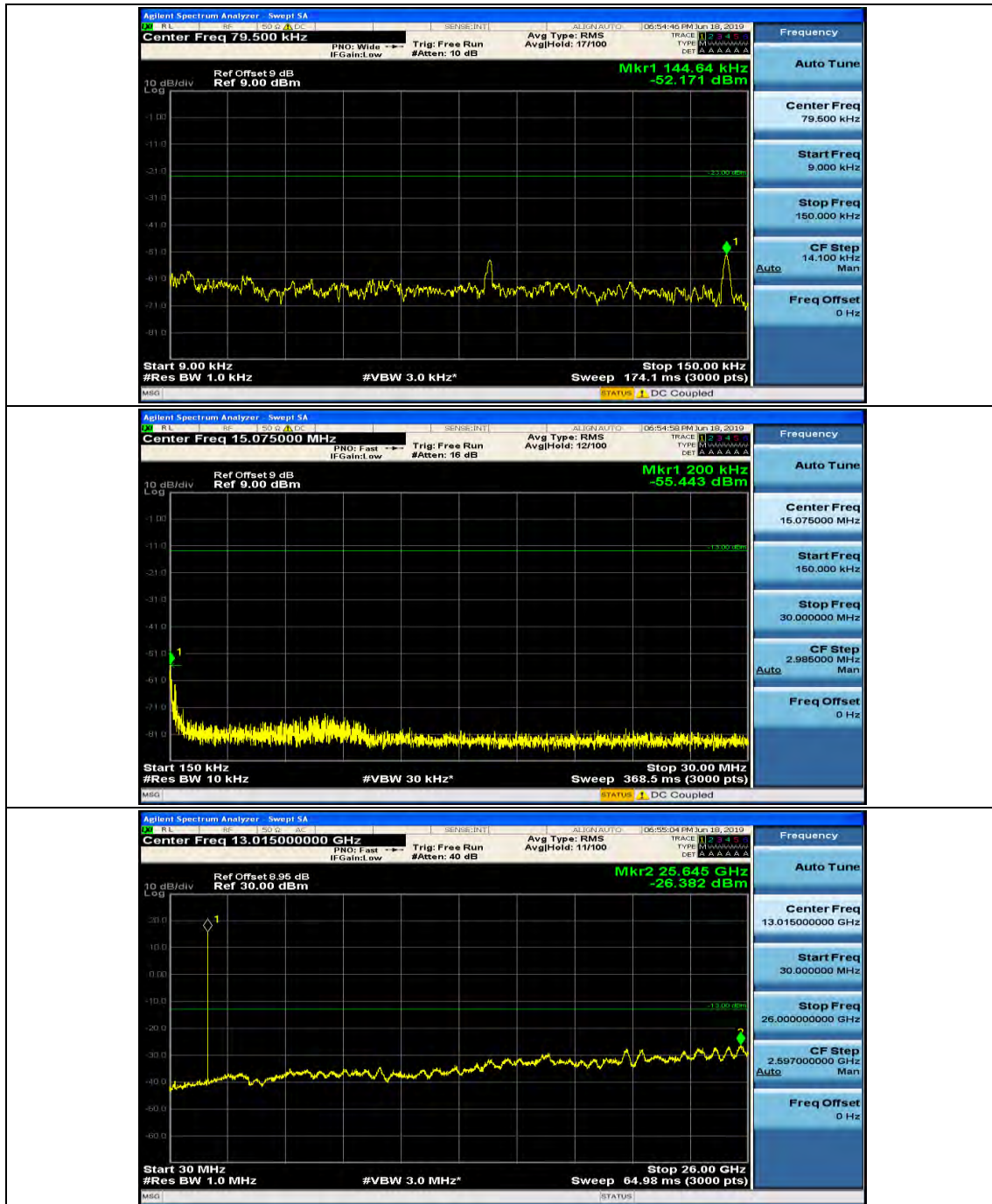


Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#0

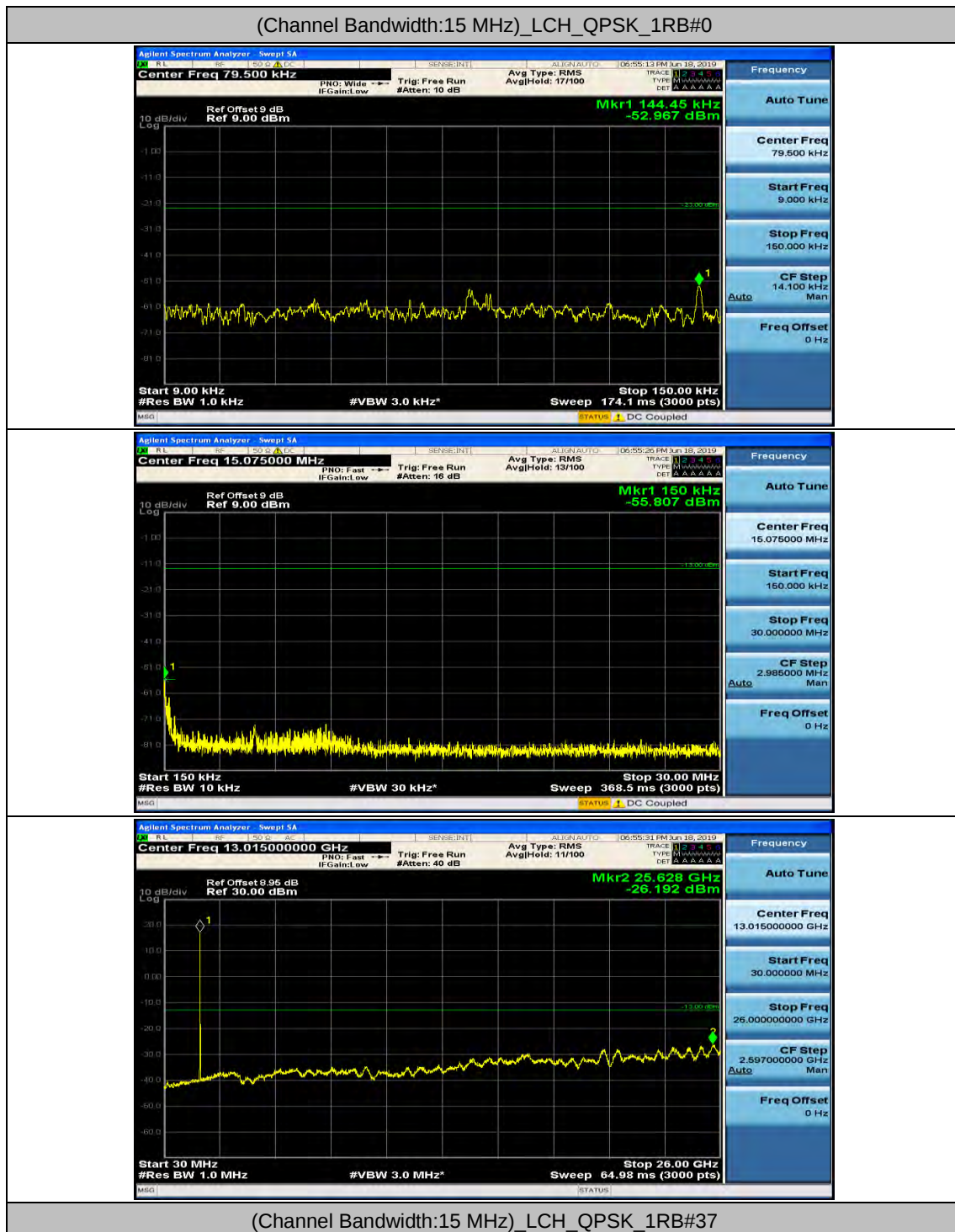


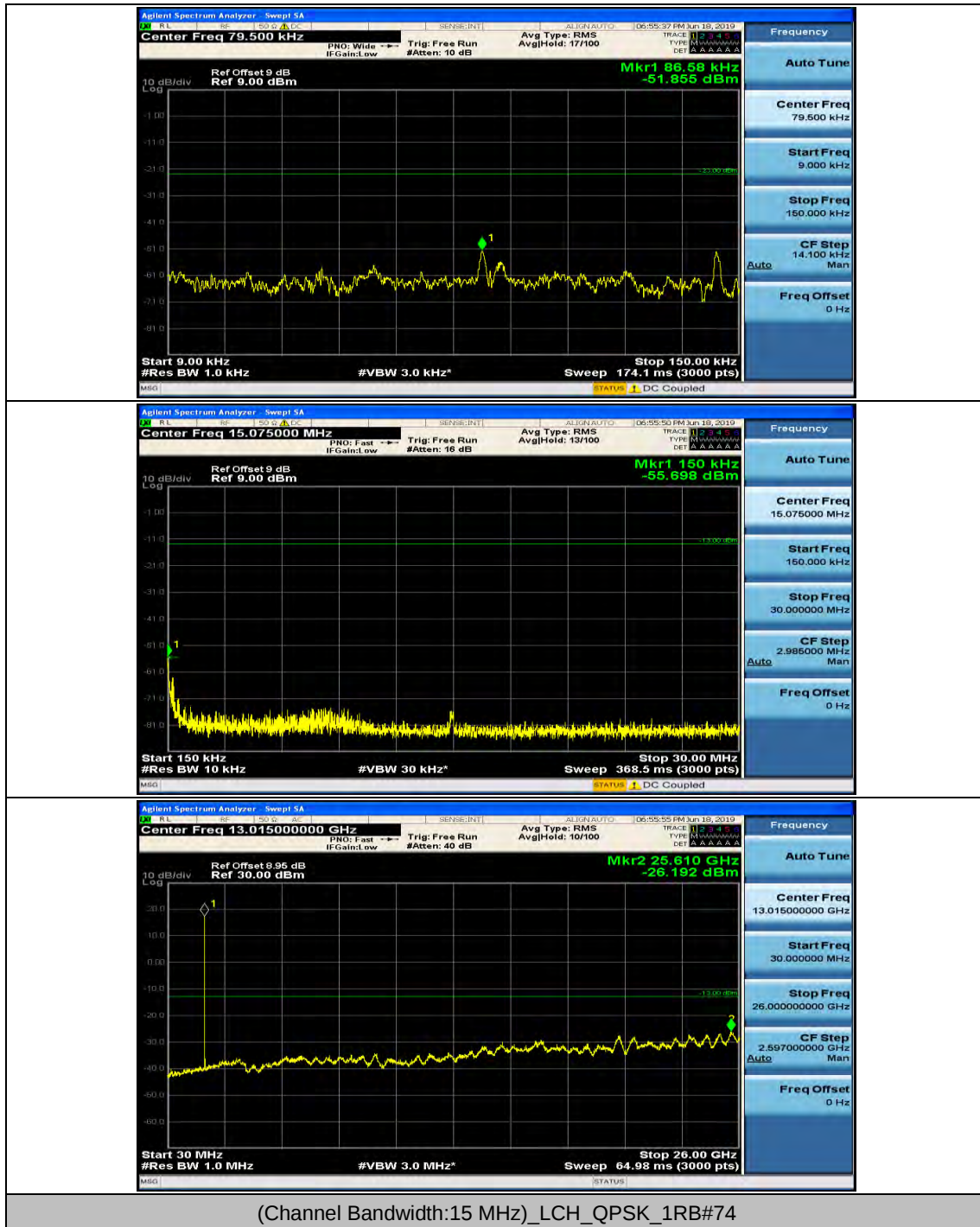
Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#24

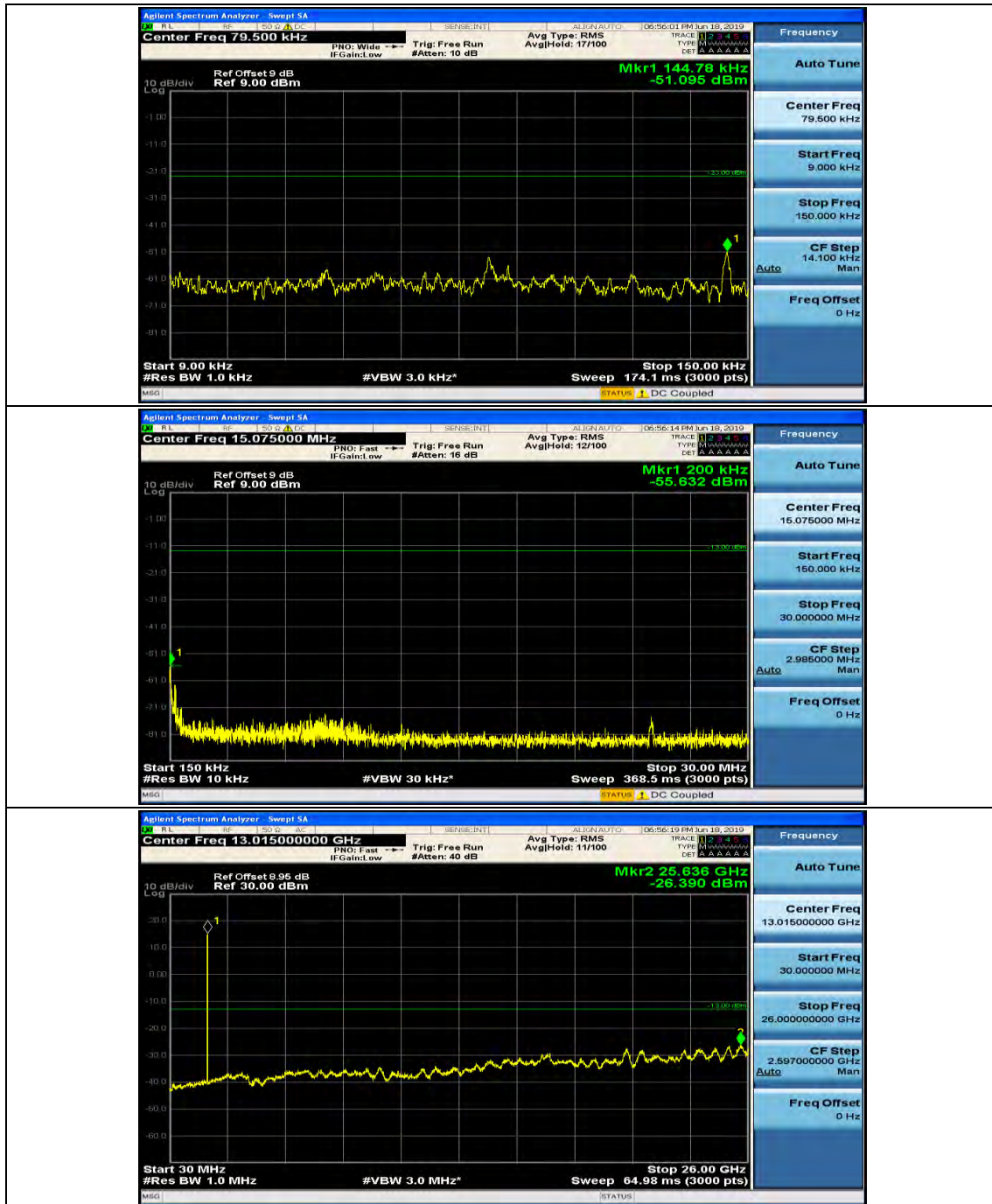




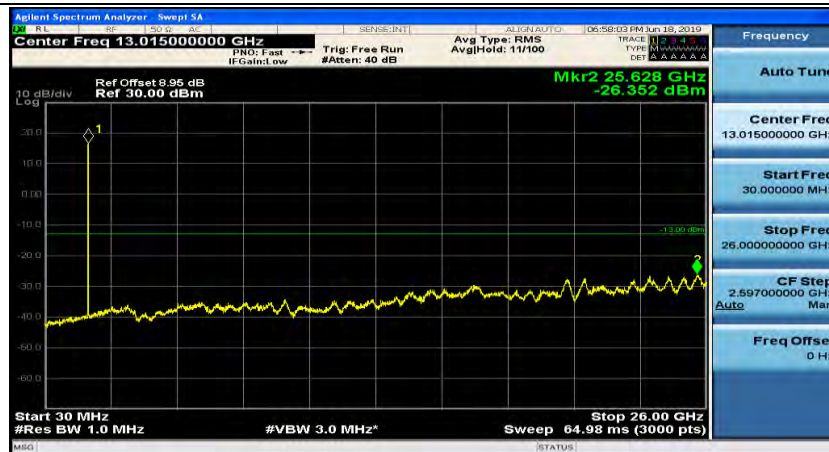
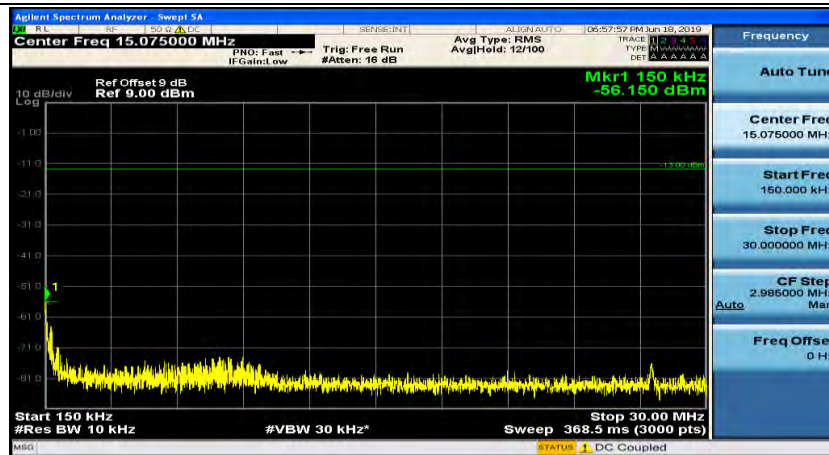
Channel Bandwidth: 15 MHz



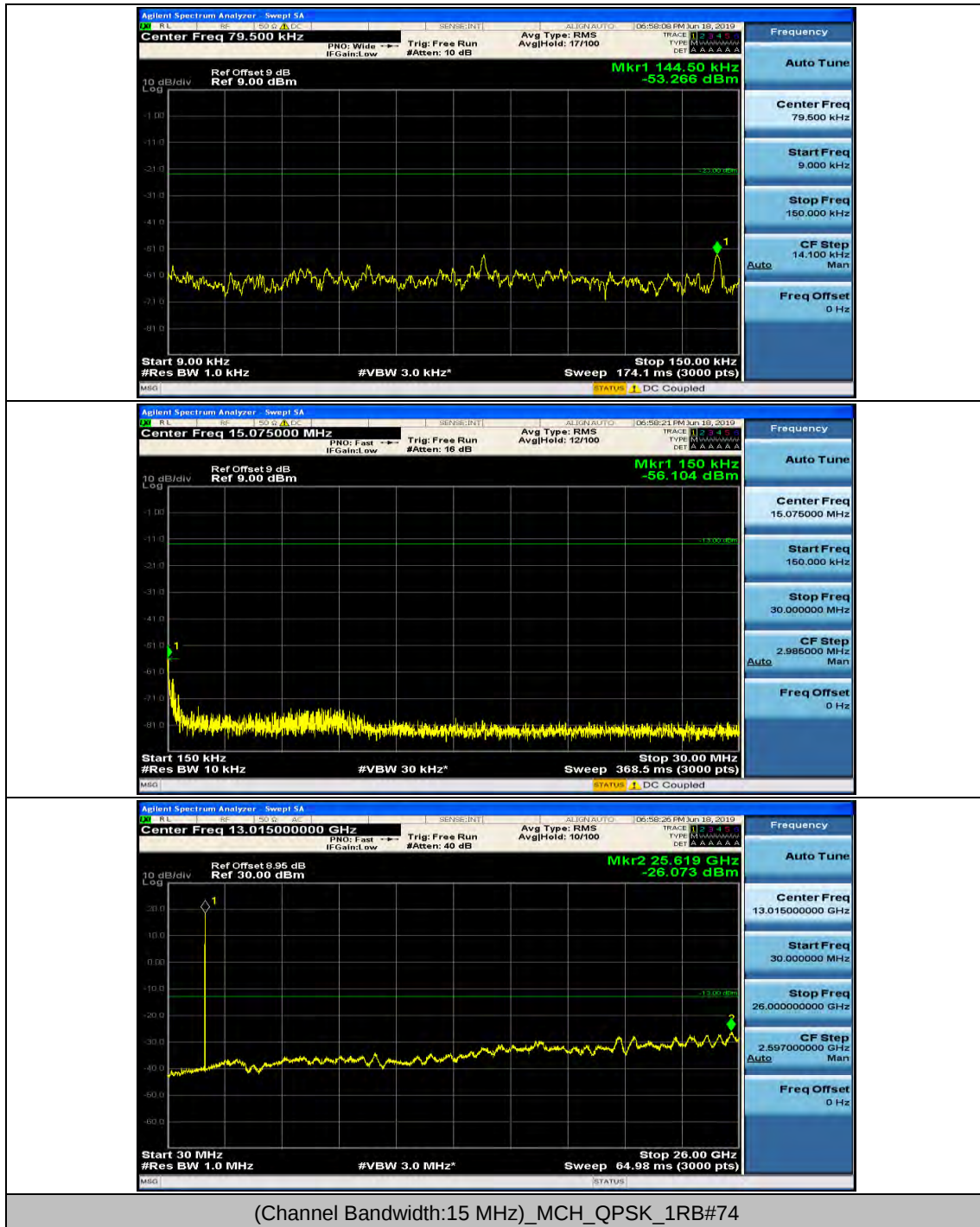


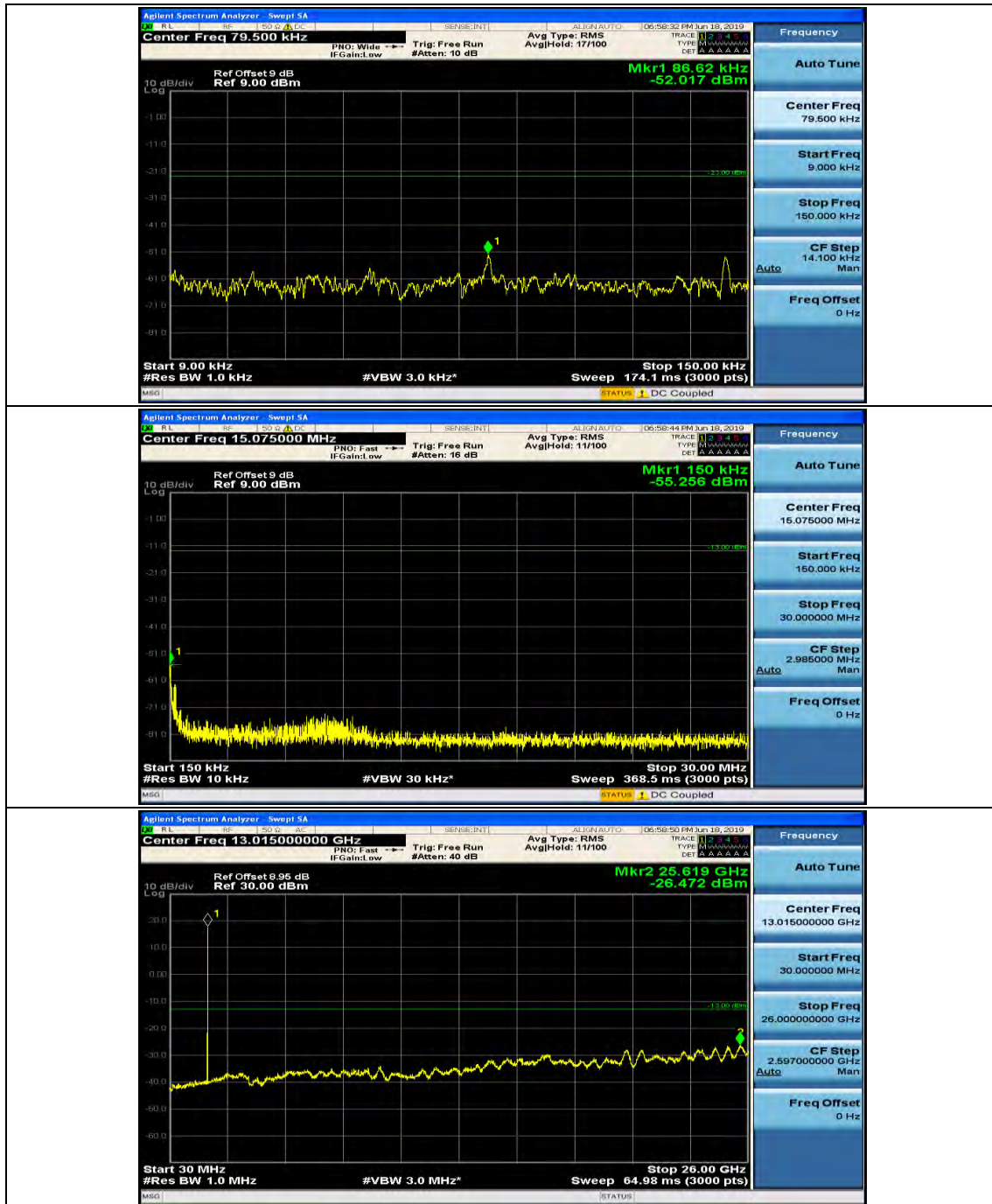


(Channel Bandwidth:15 MHz)_MCH_QPSK_1RB#0

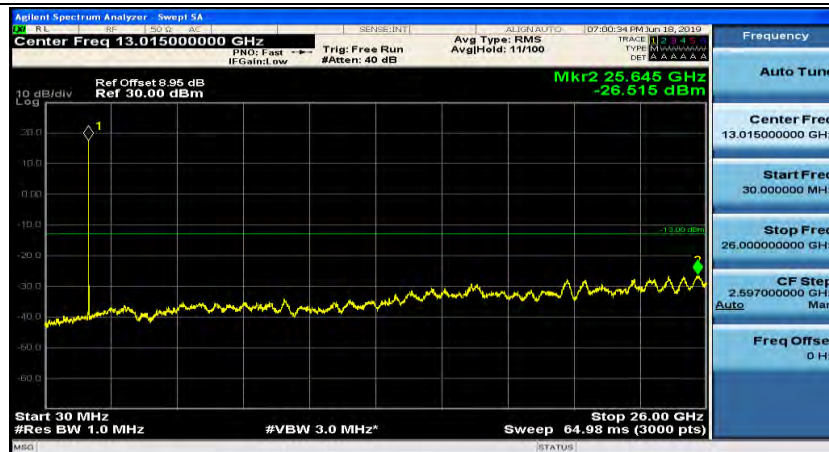
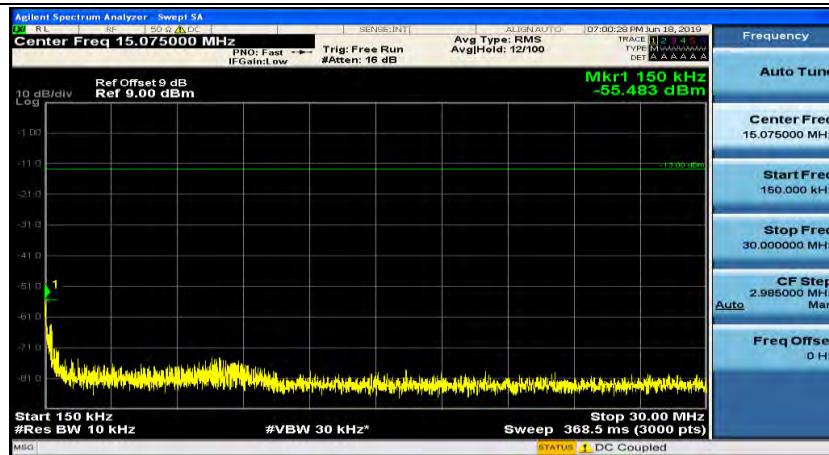


(Channel Bandwidth:15 MHz)_MCH_QPSK_1RB#37

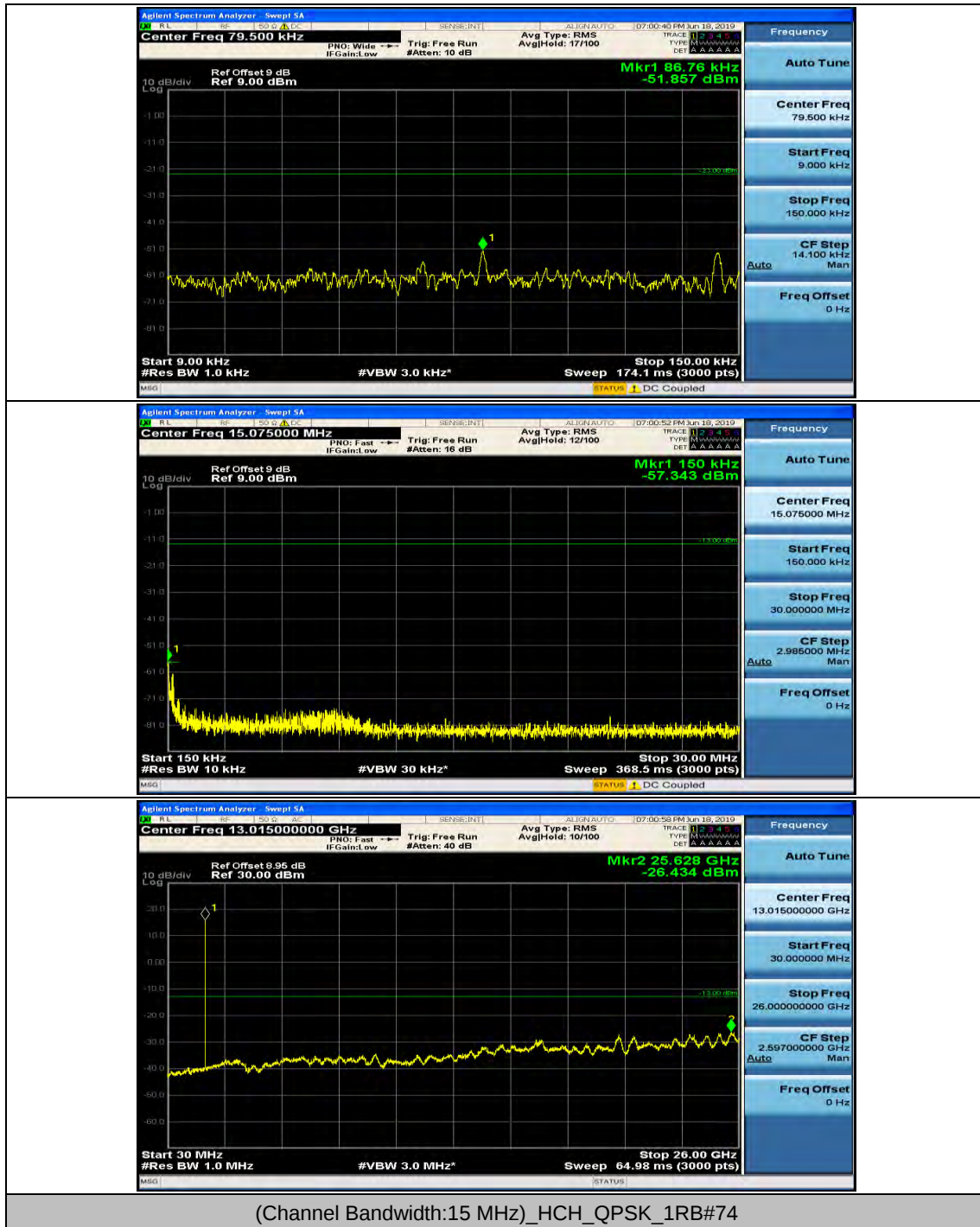


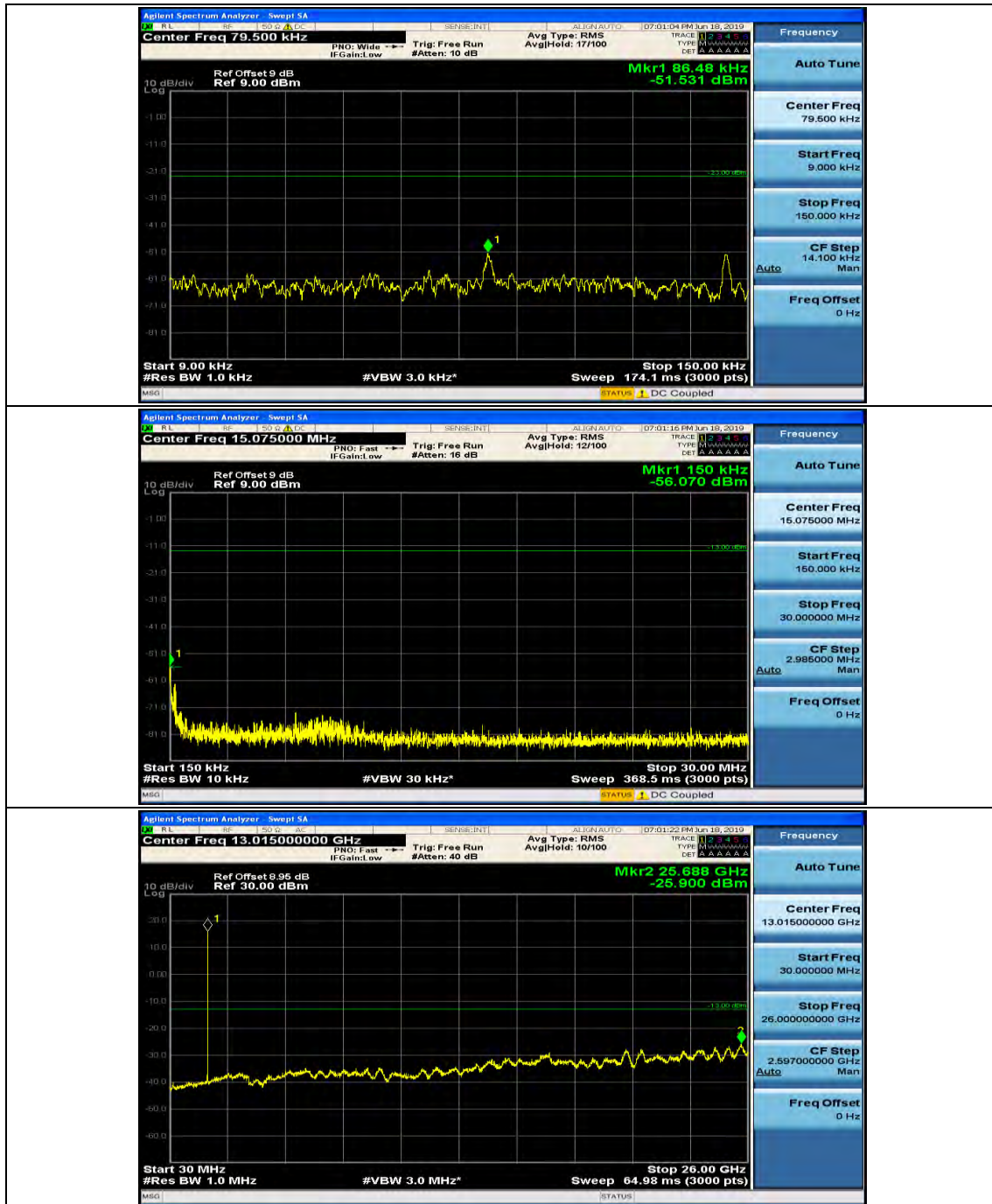


(Channel Bandwidth:15 MHz)_HCH_QPSK_1RB#0

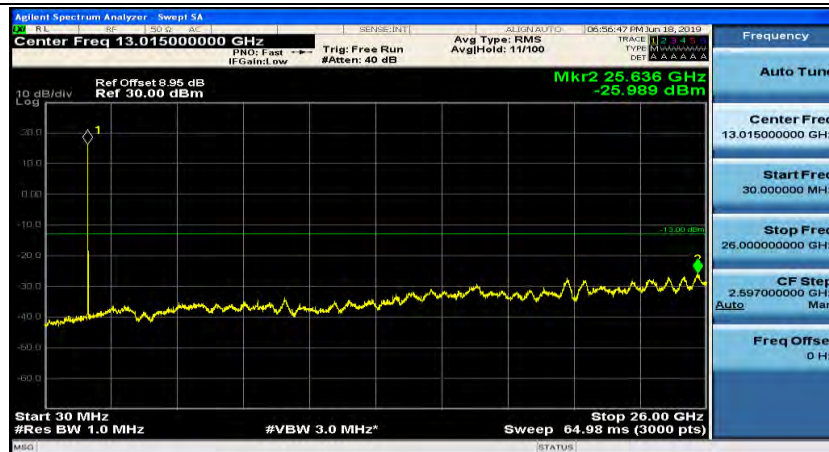
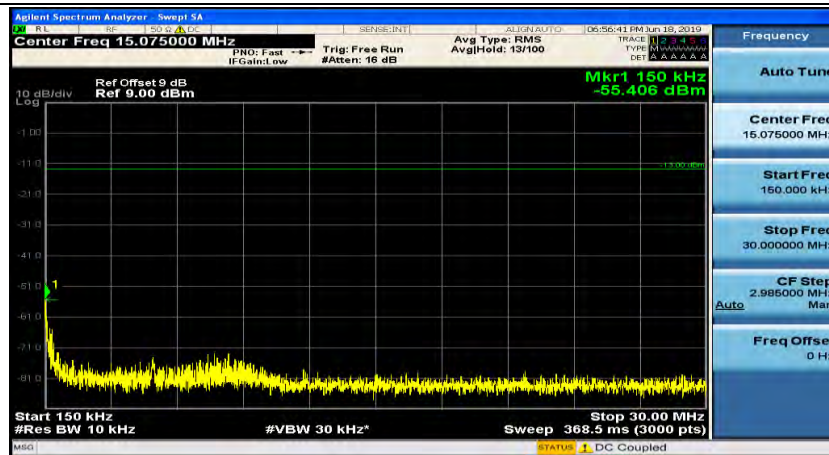


(Channel Bandwidth:15 MHz)_HCH_QPSK_1RB#37

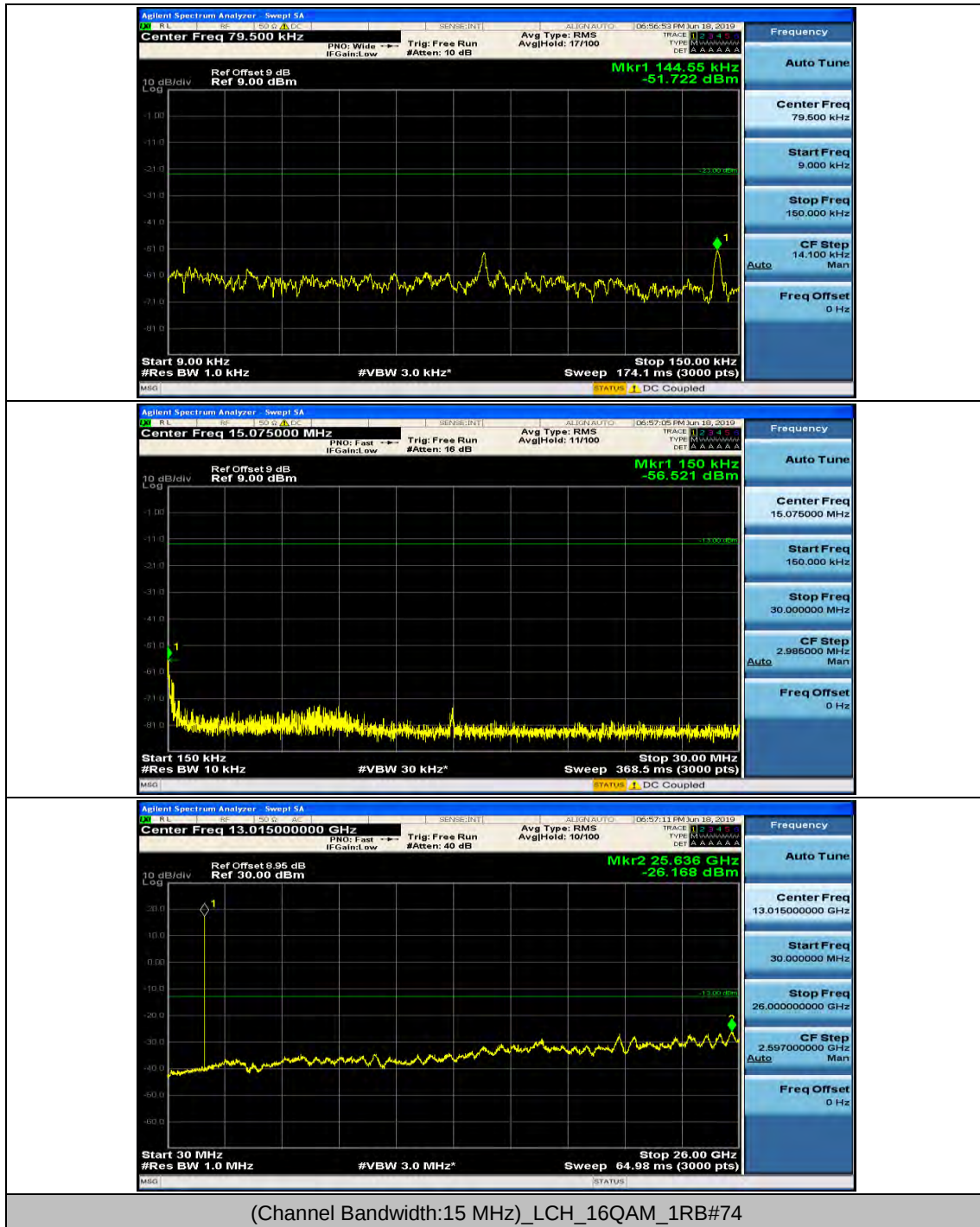


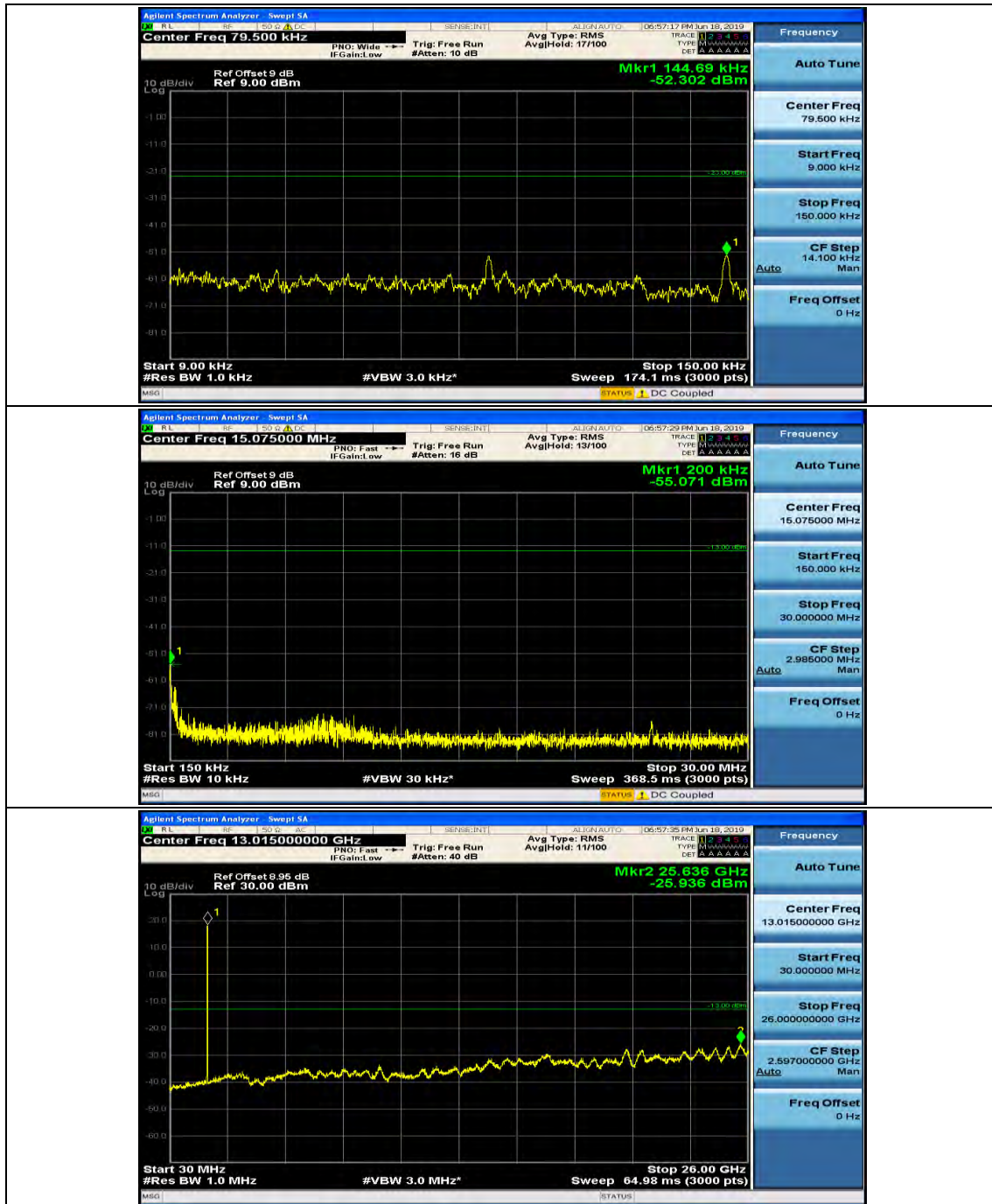


(Channel Bandwidth:15 MHz)_LCH_16QAM_1RB#0

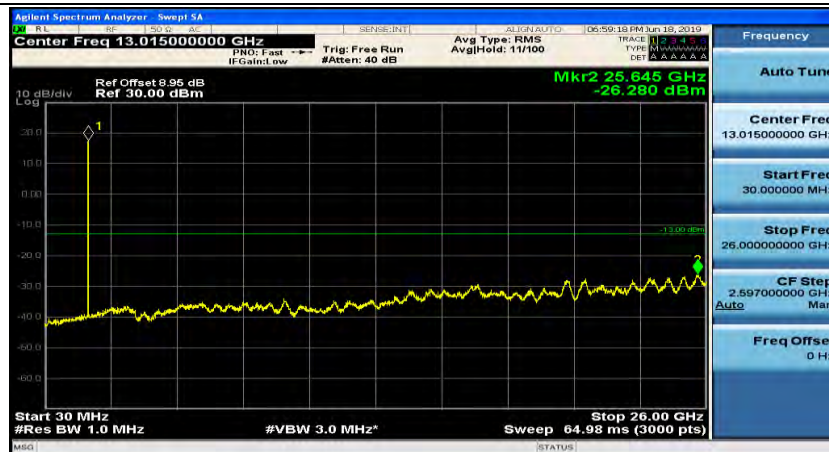
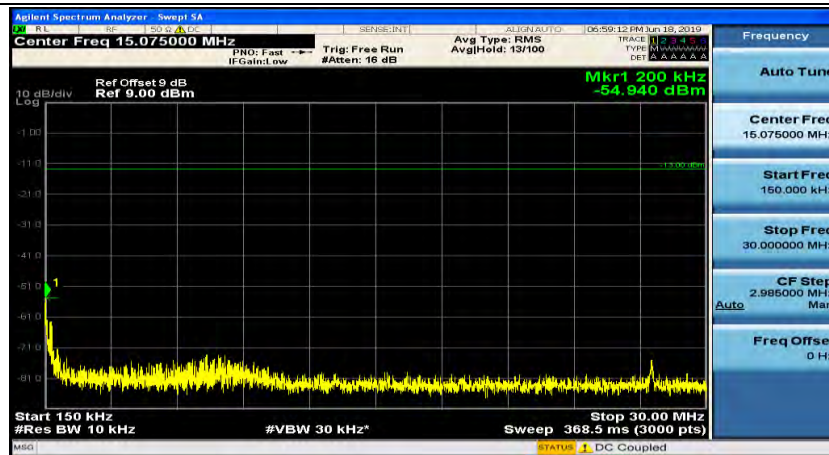


(Channel Bandwidth:15 MHz)_LCH_16QAM_1RB#37

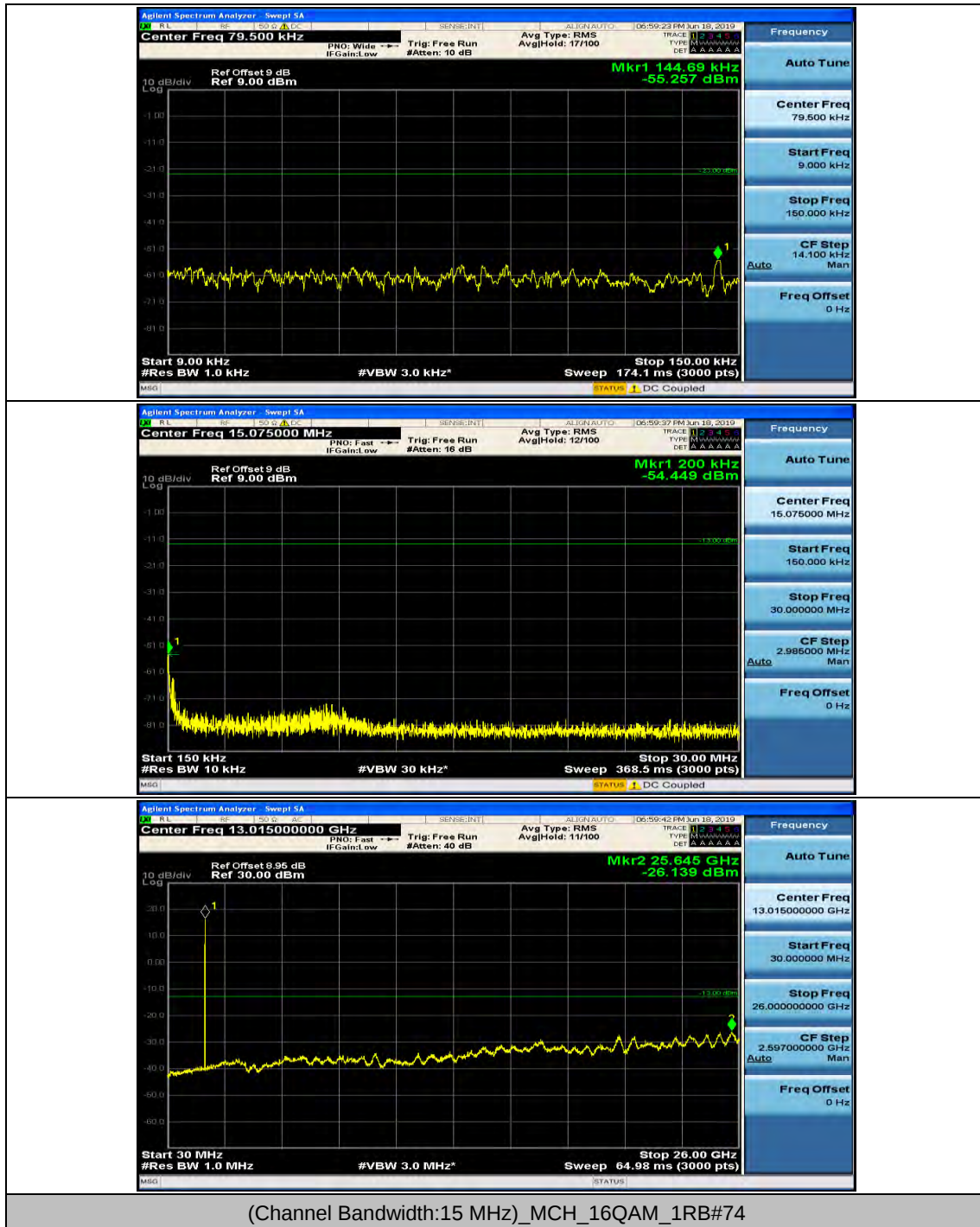


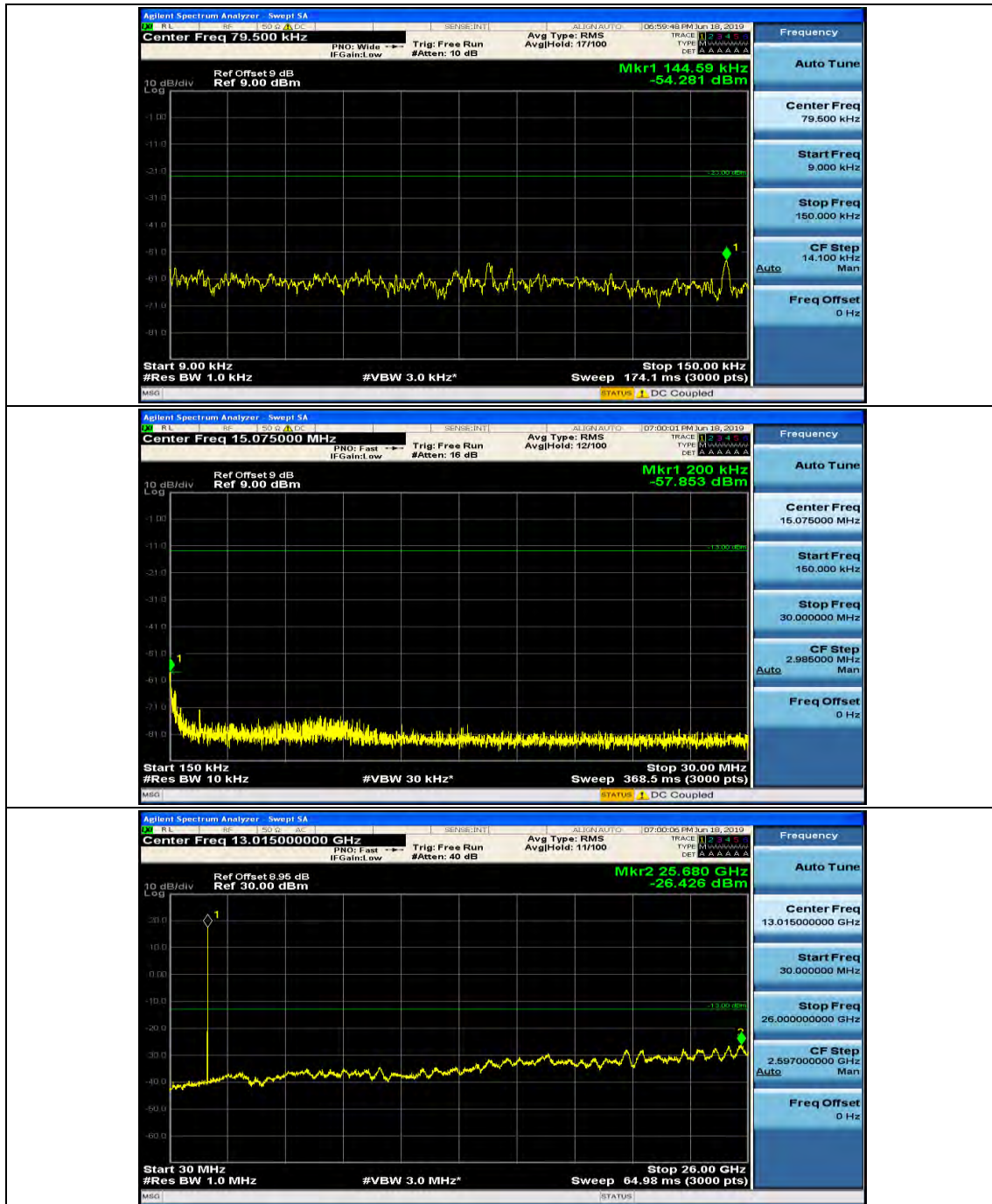


(Channel Bandwidth:15 MHz)_MCH_16QAM_1RB#0

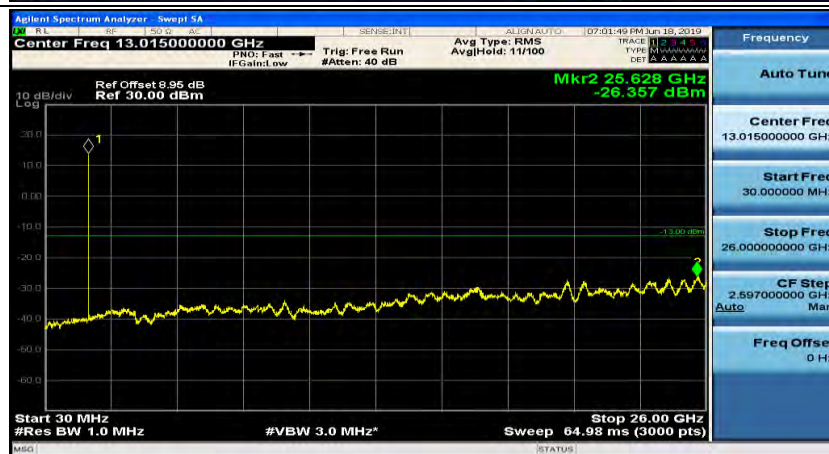
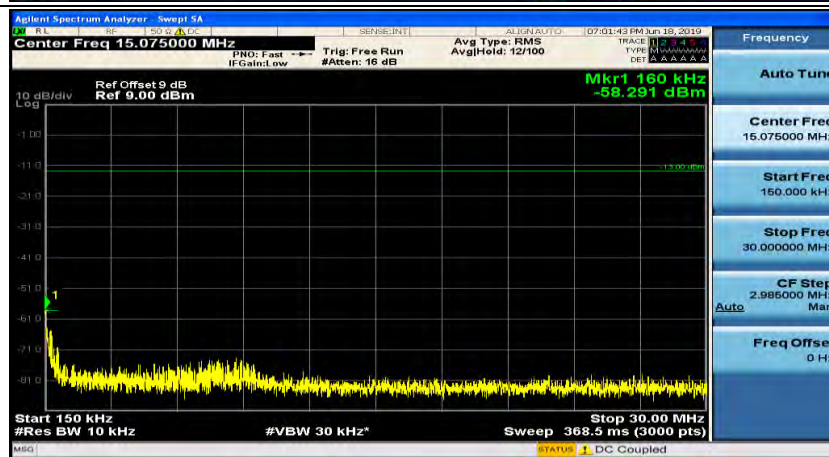


(Channel Bandwidth:15 MHz)_MCH_16QAM_1RB#37

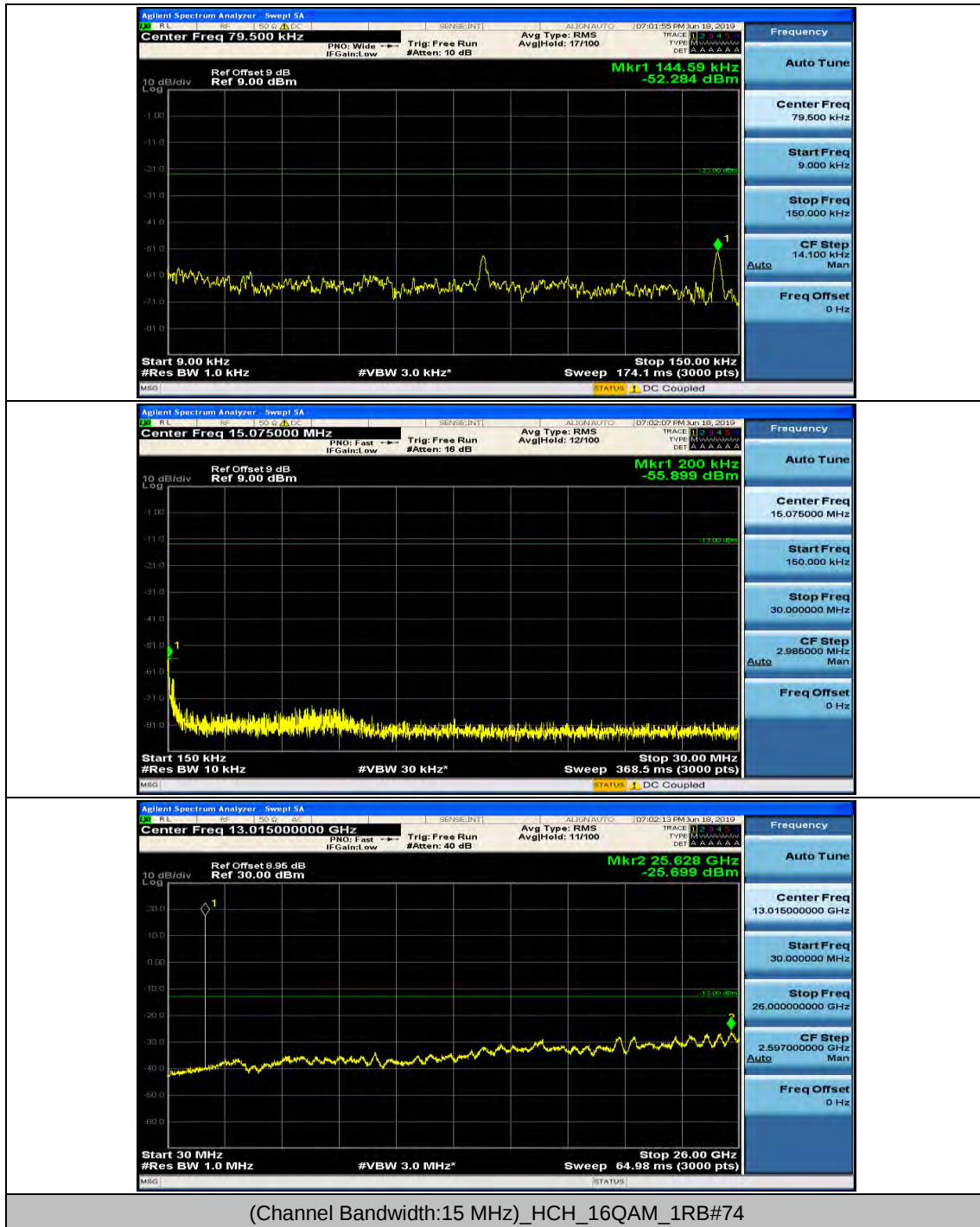


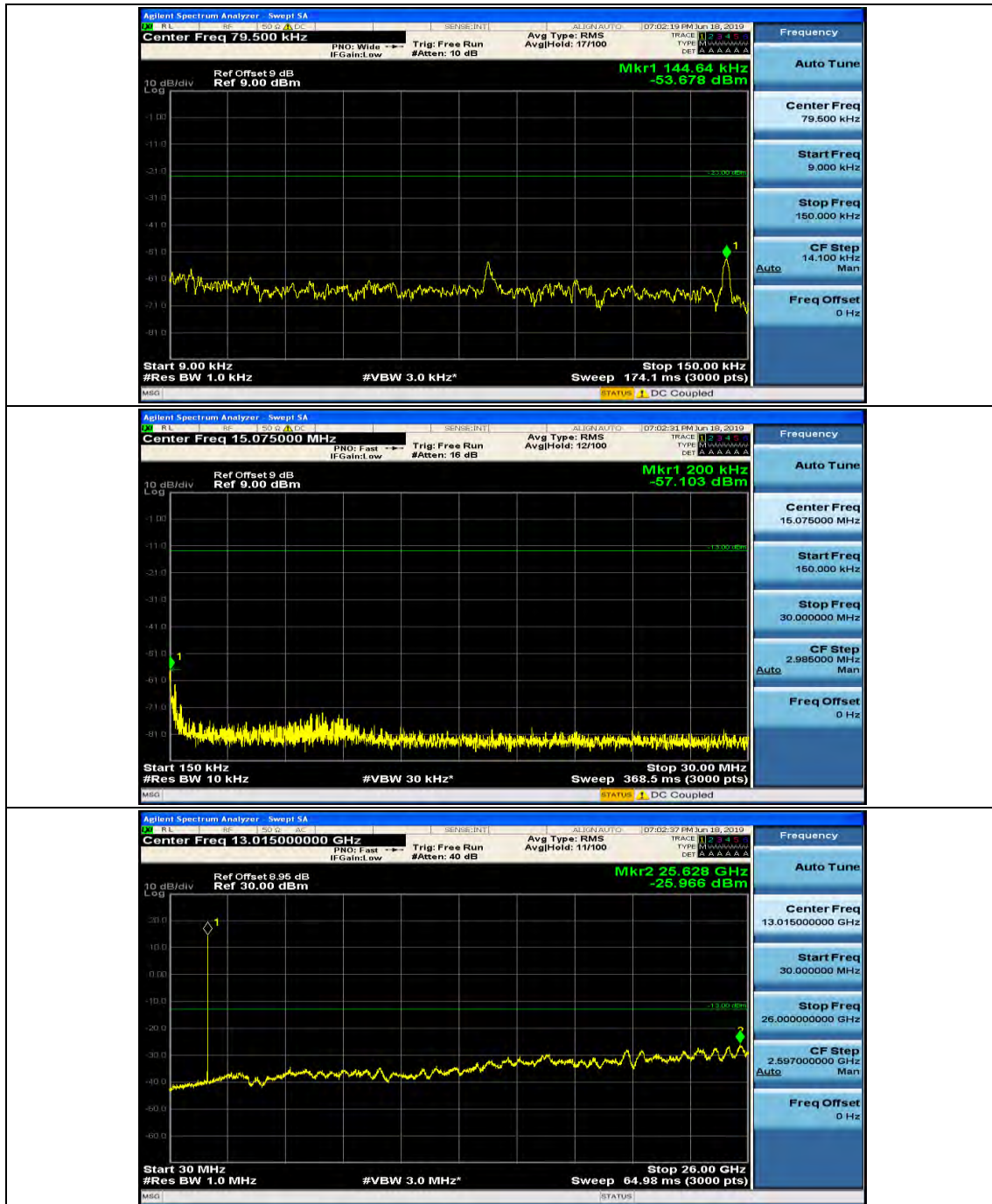


(Channel Bandwidth:15 MHz)_HCH_16QAM_1RB#0

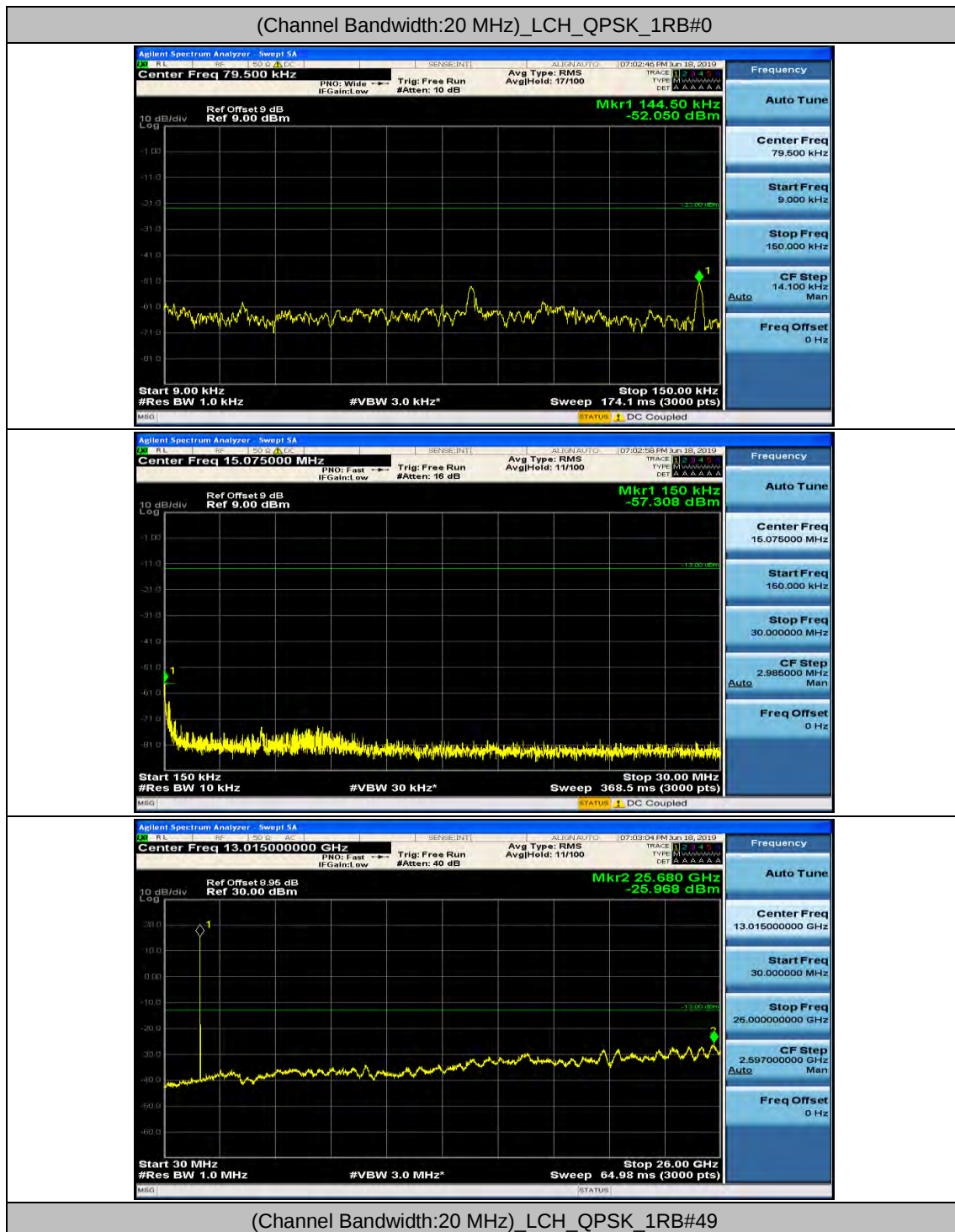


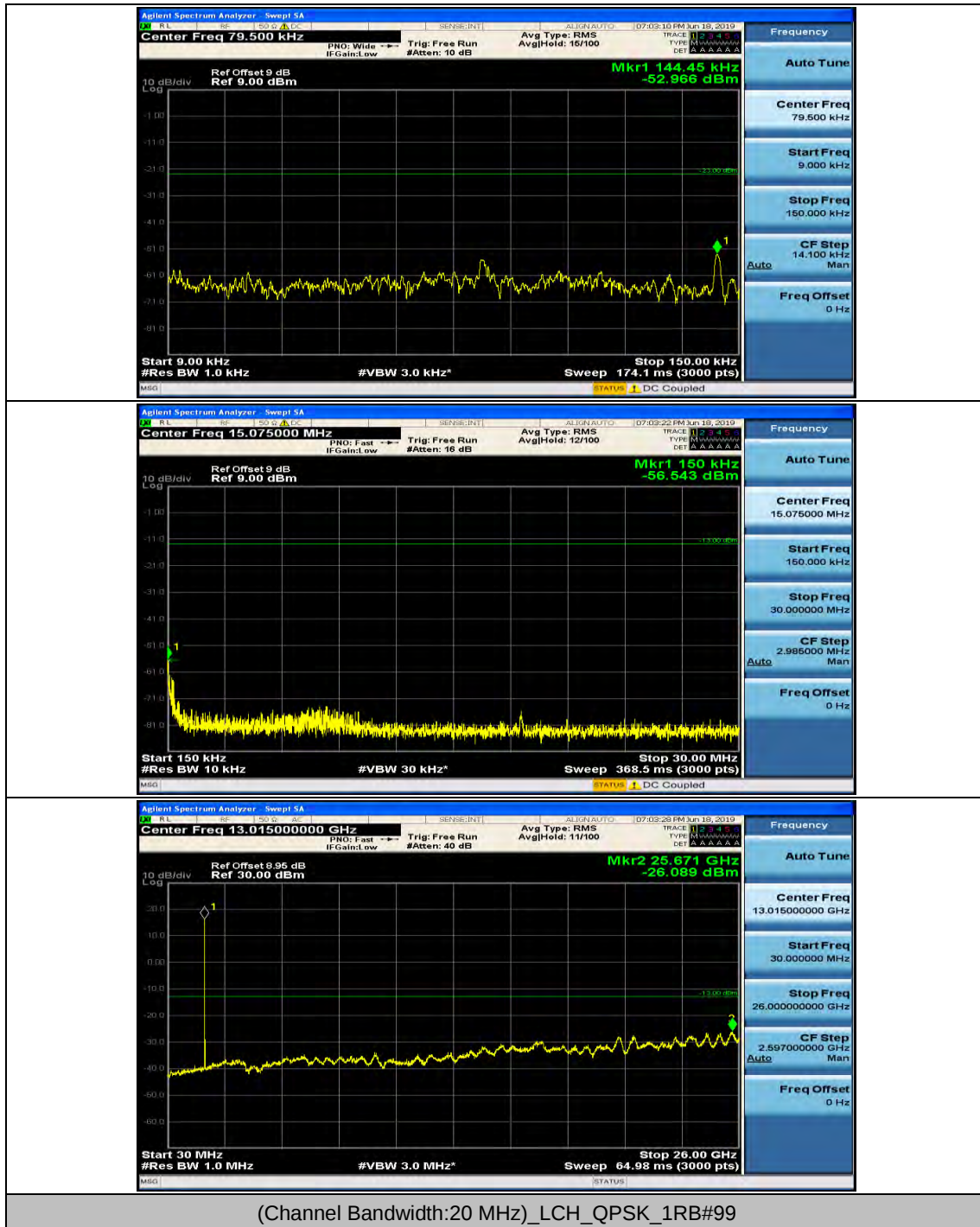
(Channel Bandwidth:15 MHz)_HCH_16QAM_1RB#37

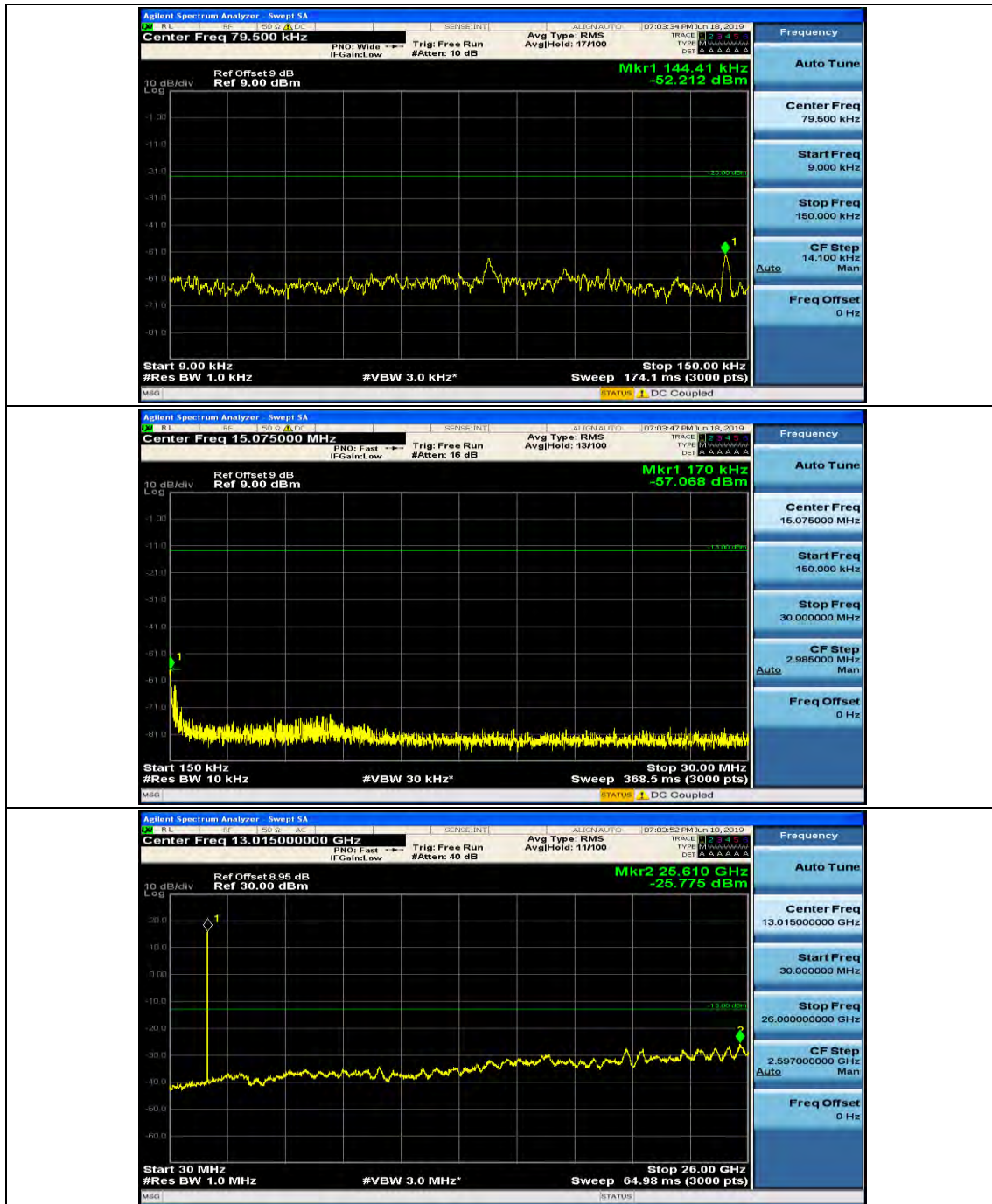




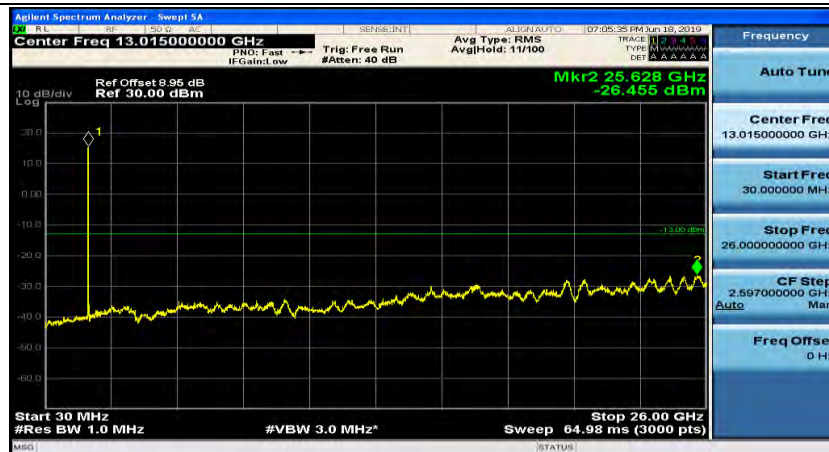
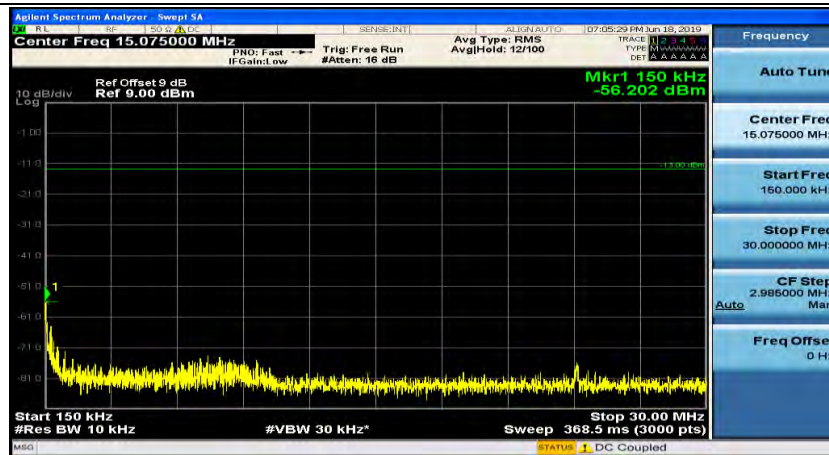
Channel Bandwidth: 20 MHz



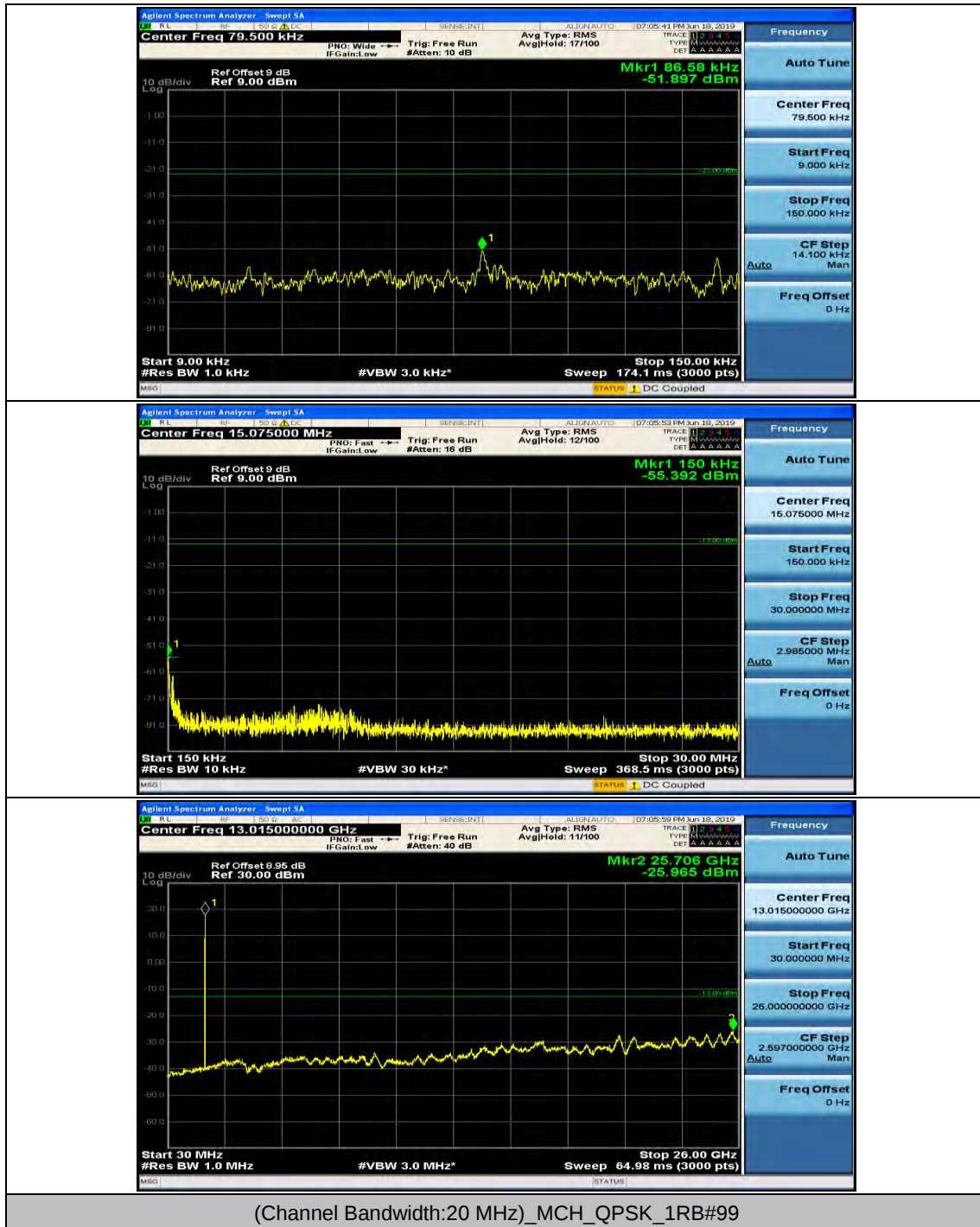


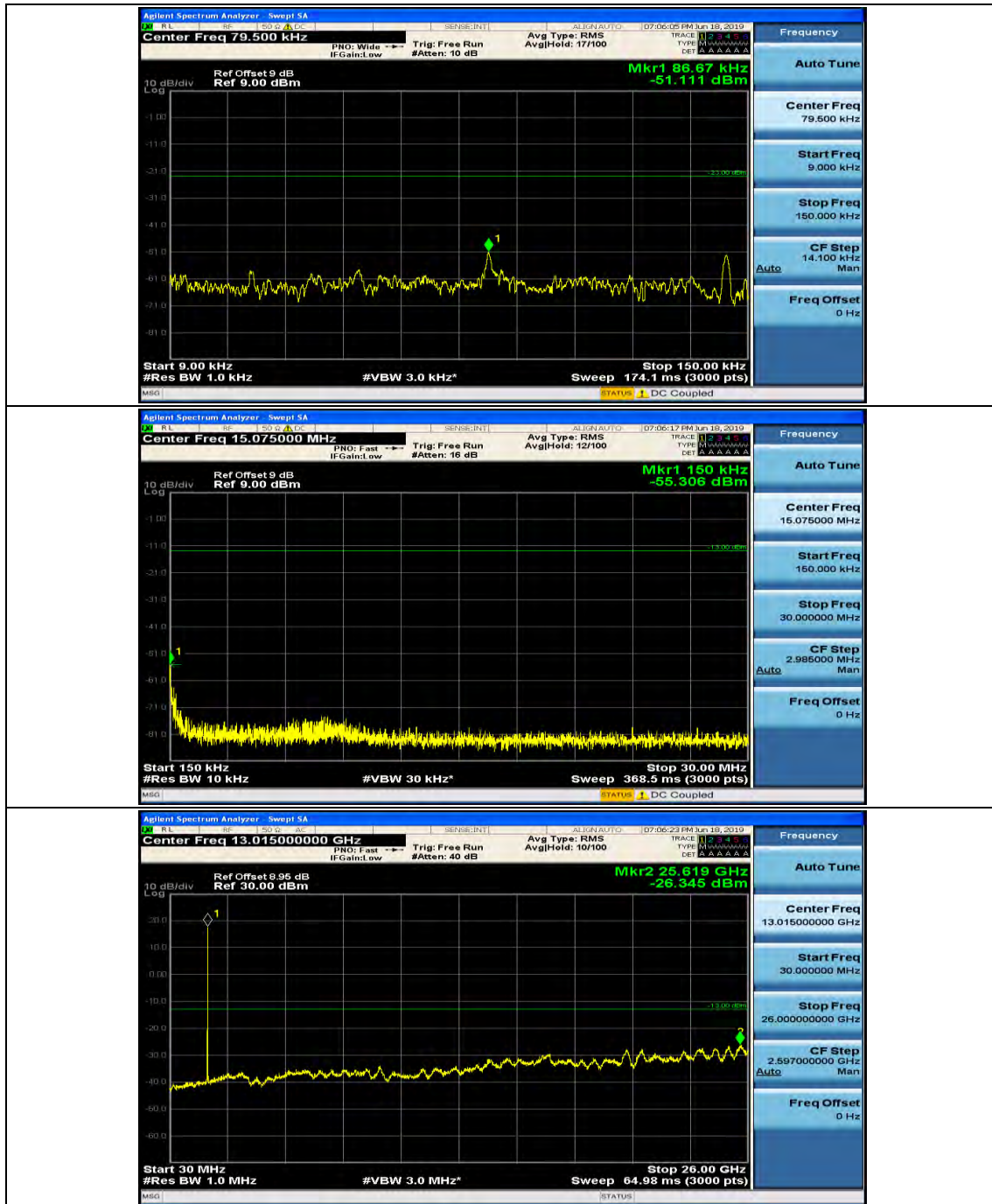


(Channel Bandwidth:20 MHz)_MCH_QPSK_1RB#0

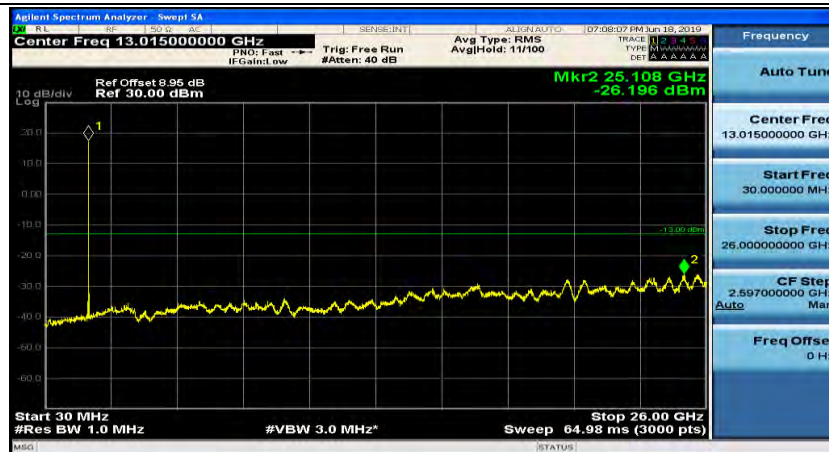
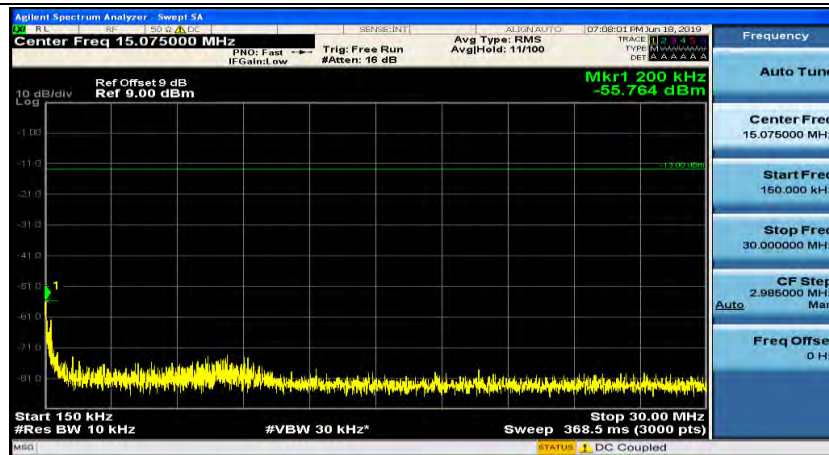
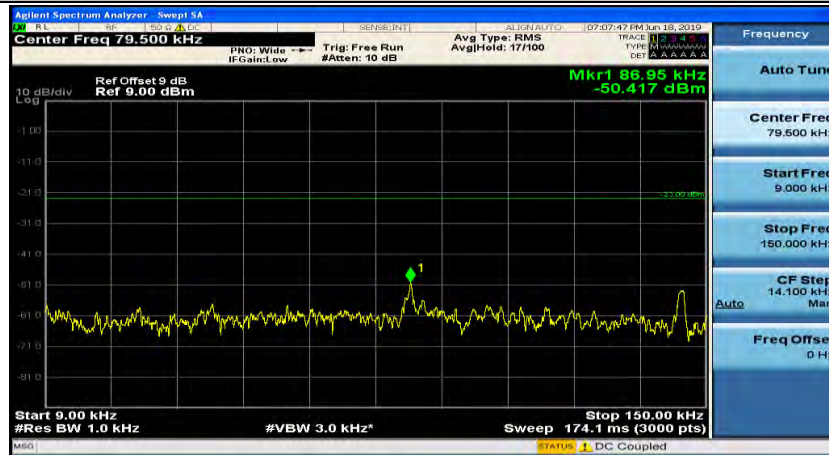


(Channel Bandwidth:20 MHz)_MCH_QPSK_1RB#49

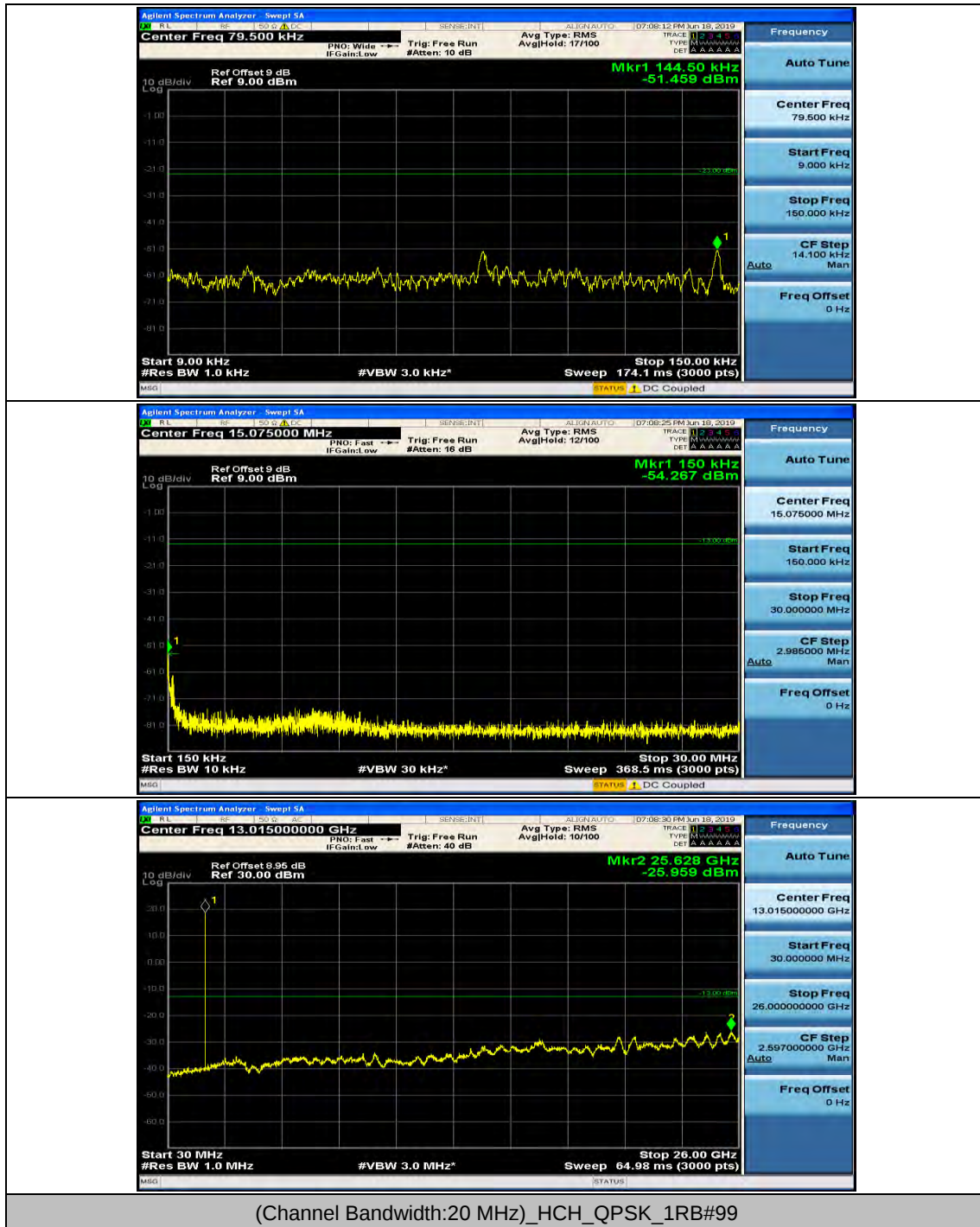


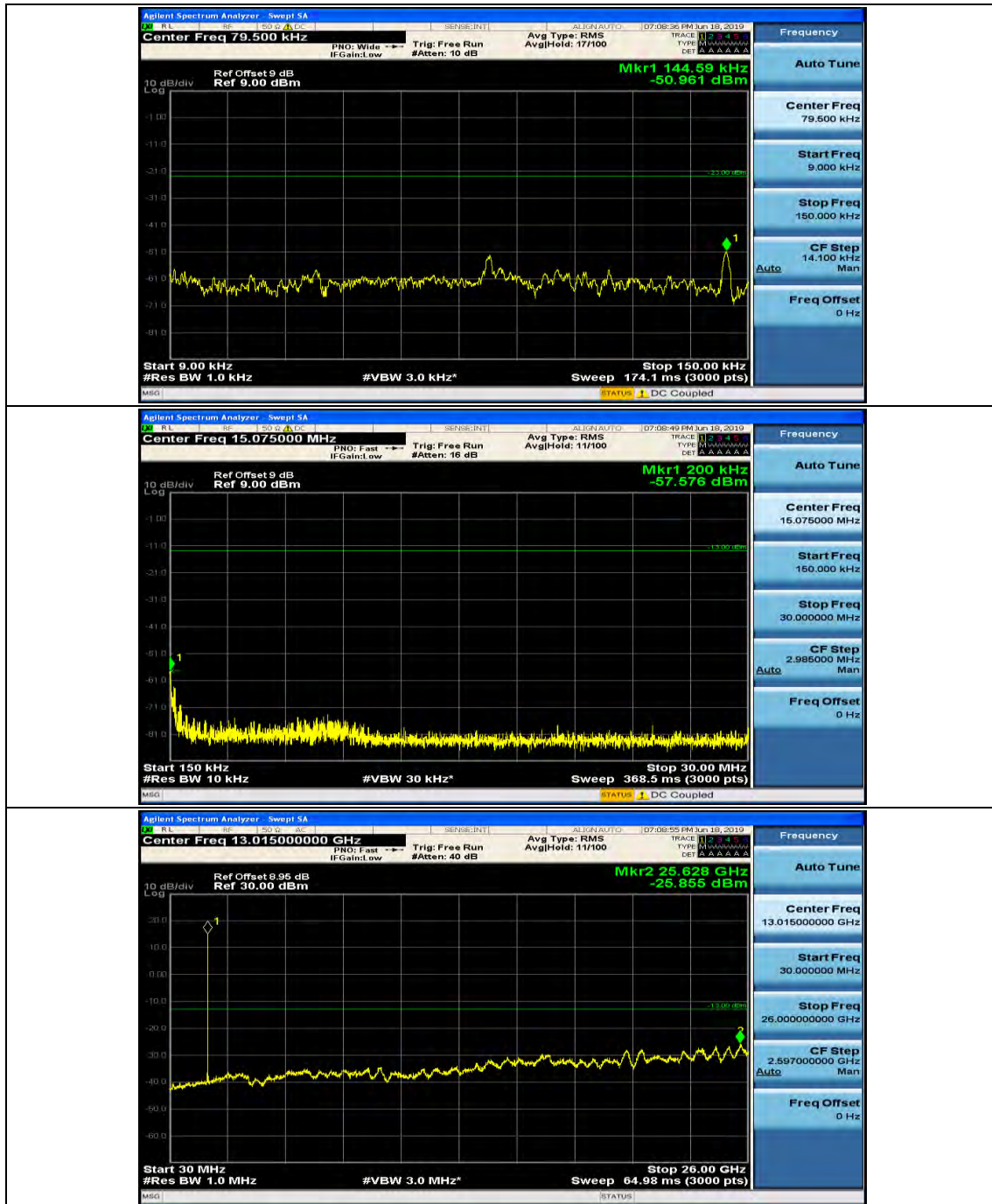


(Channel Bandwidth:20 MHz)_HCH_QPSK_1RB#0

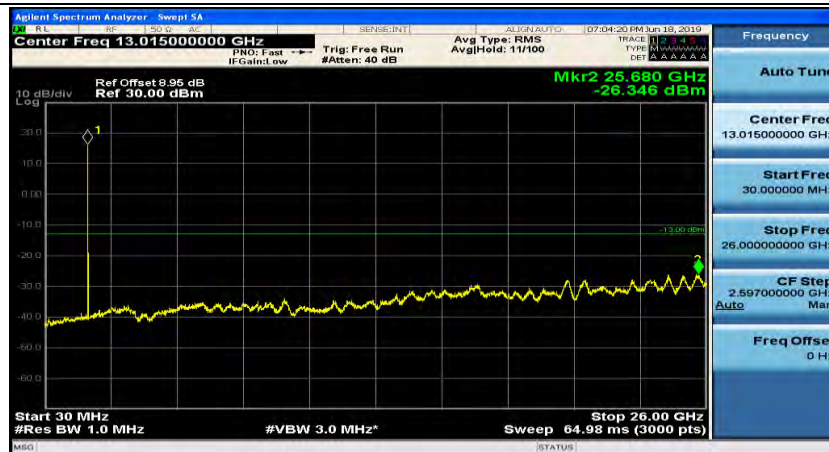
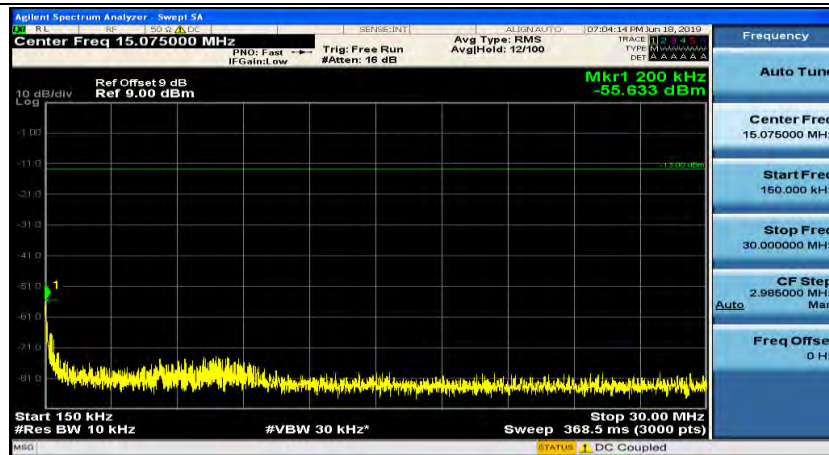


(Channel Bandwidth:20 MHz)_HCH_QPSK_1RB#49

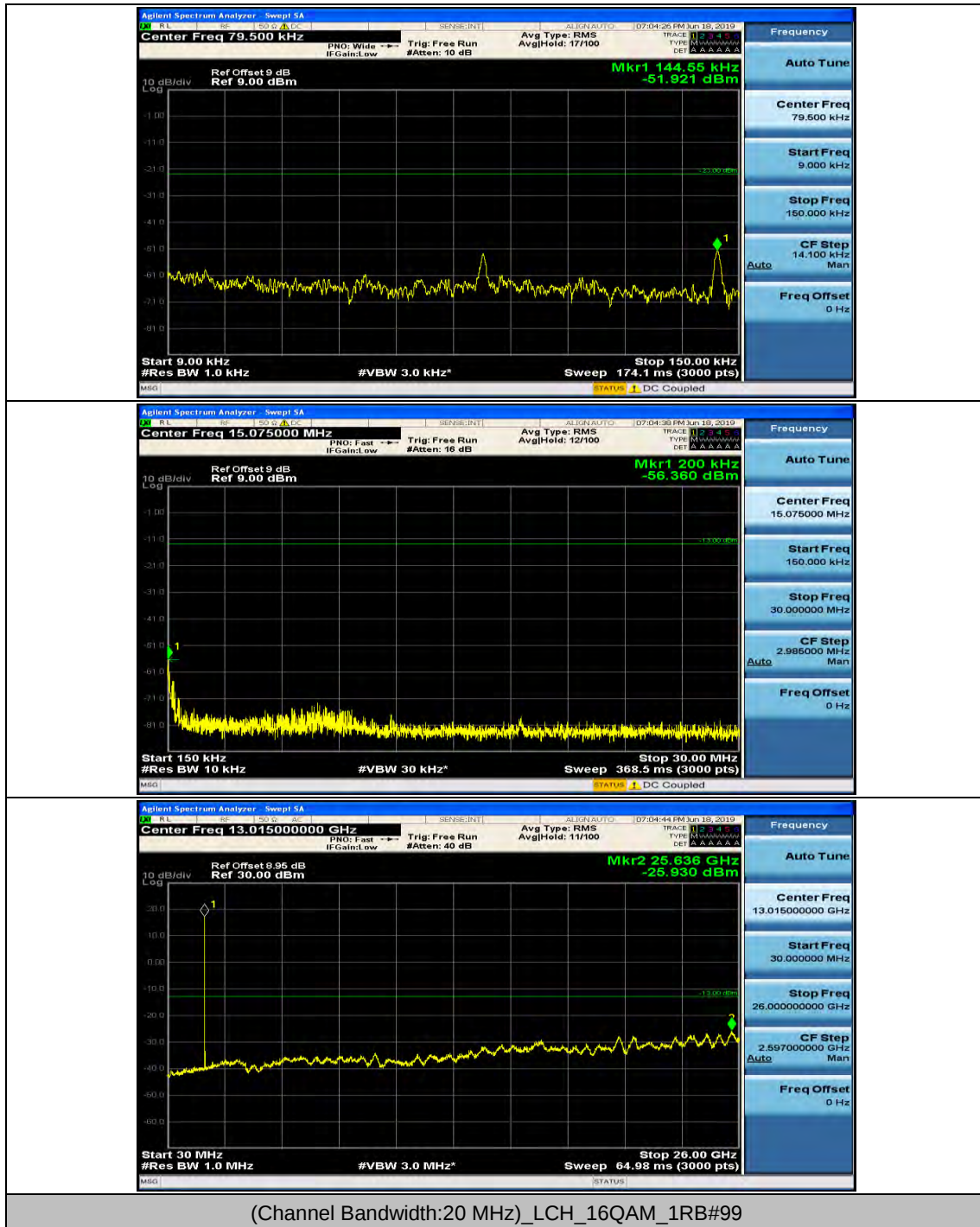


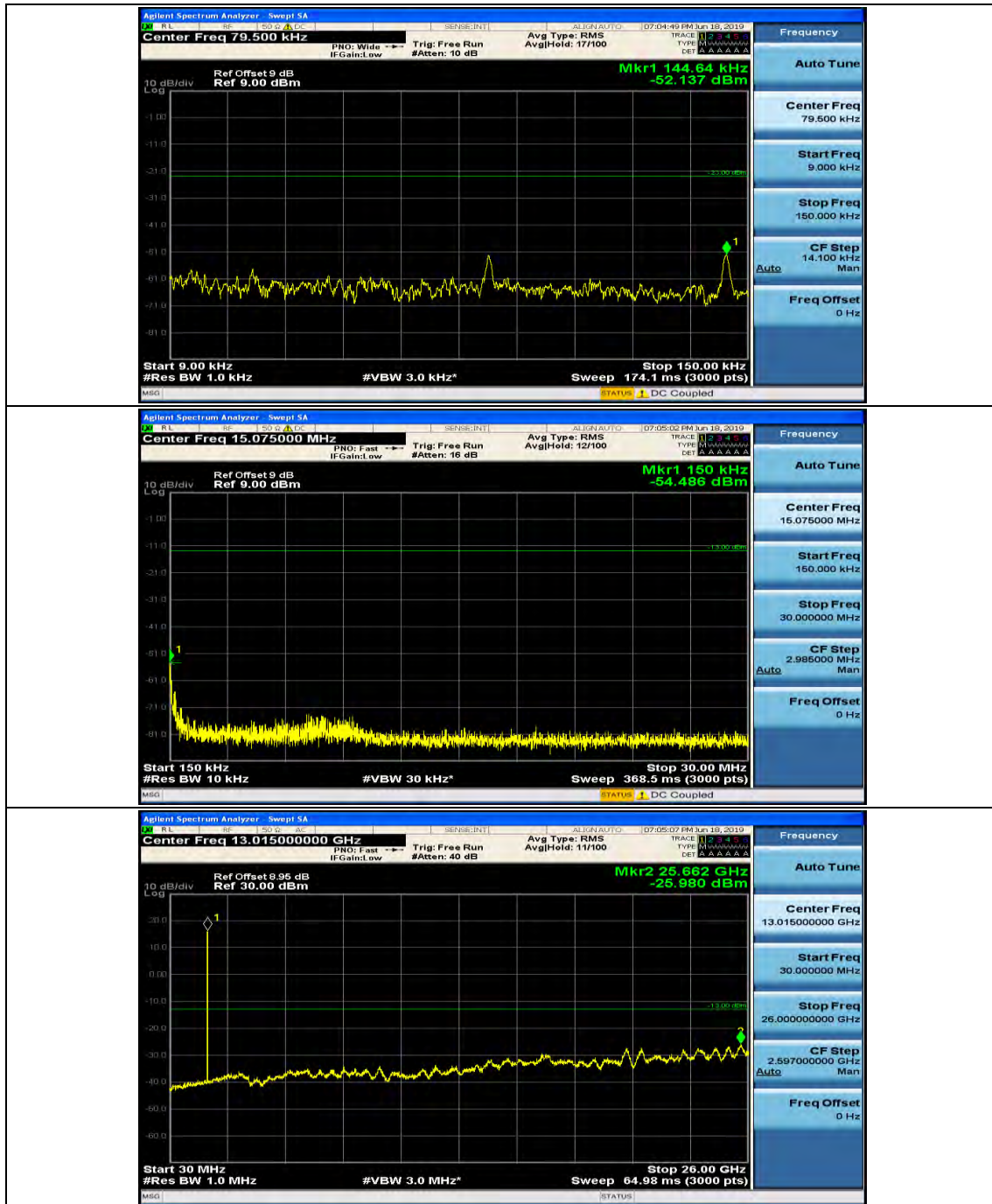


(Channel Bandwidth:20 MHz)_LCH_16QAM_1RB#0

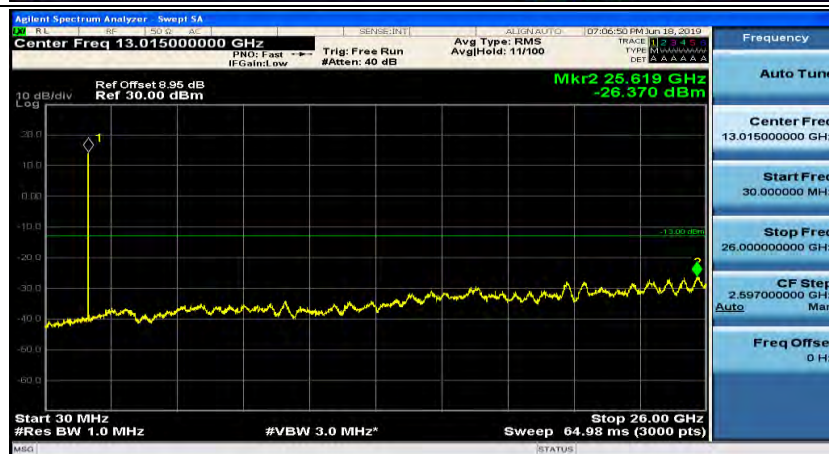
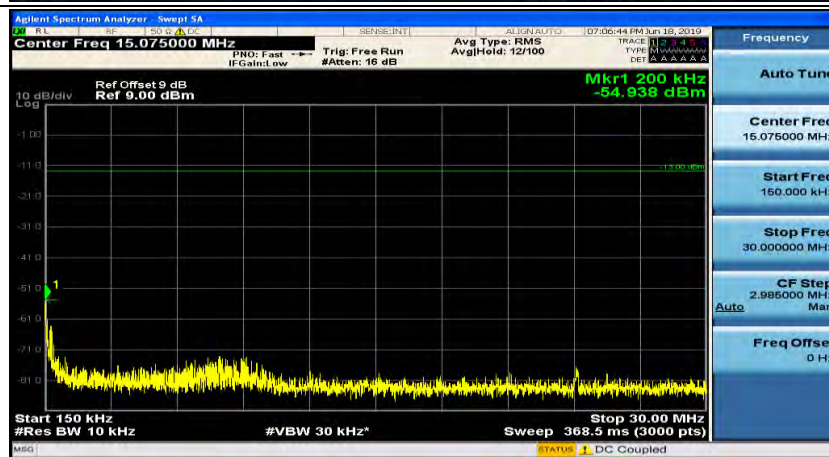
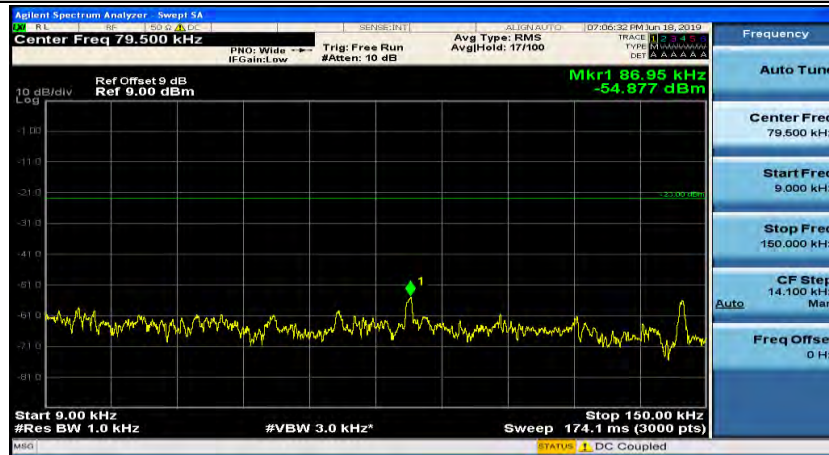


(Channel Bandwidth:20 MHz)_LCH_16QAM_1RB#49

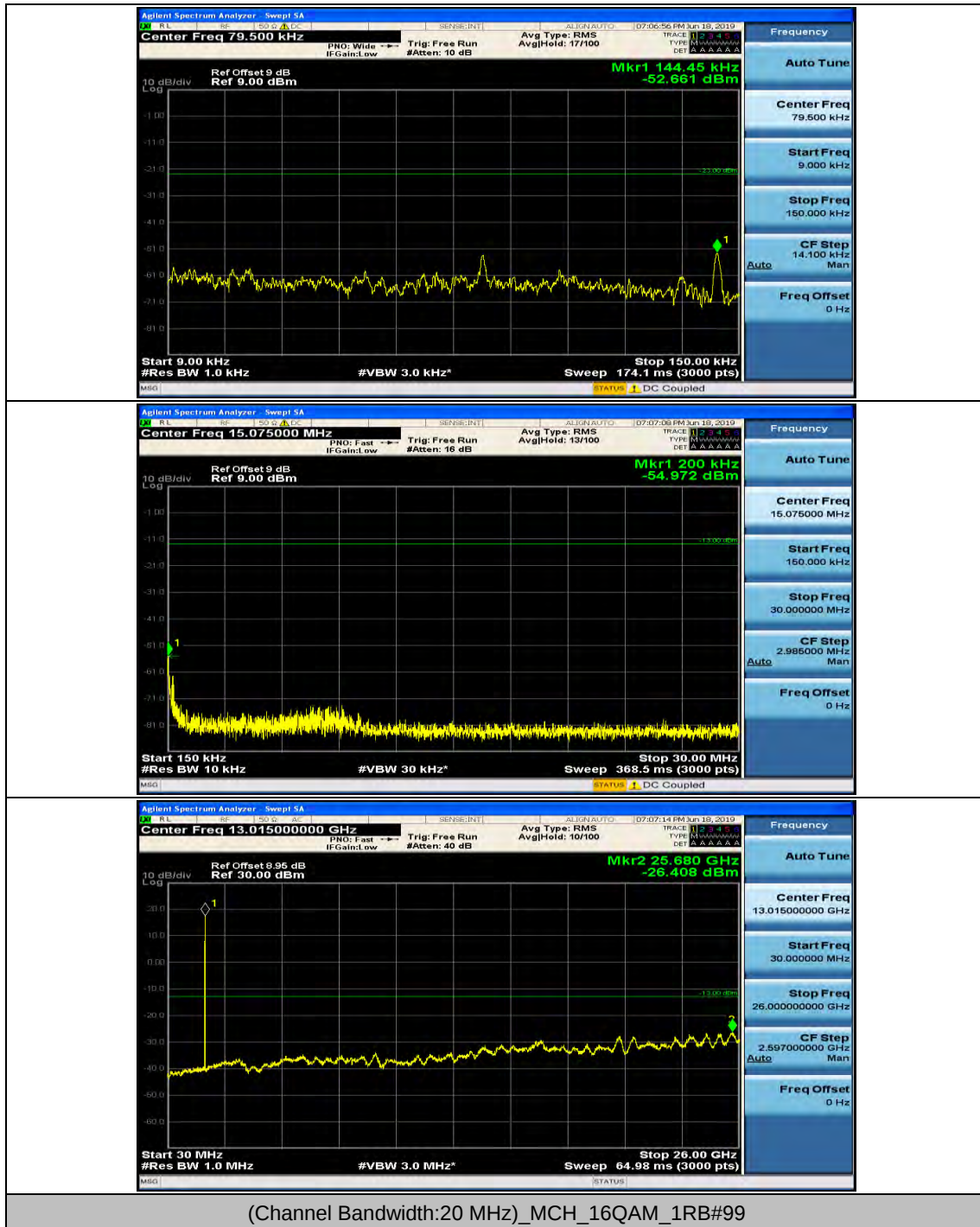


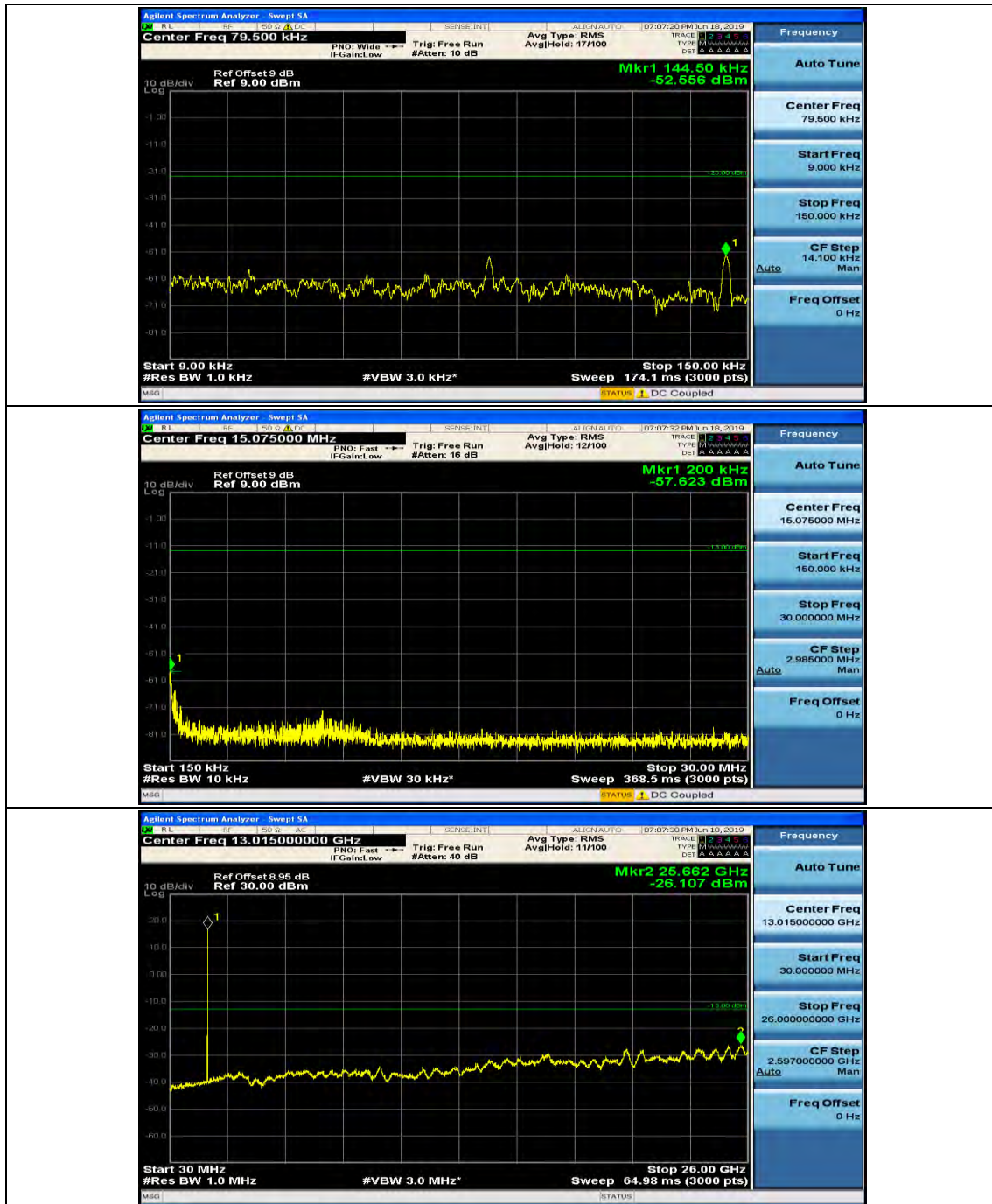


(Channel Bandwidth:20 MHz)_MCH_16QAM_1RB#0

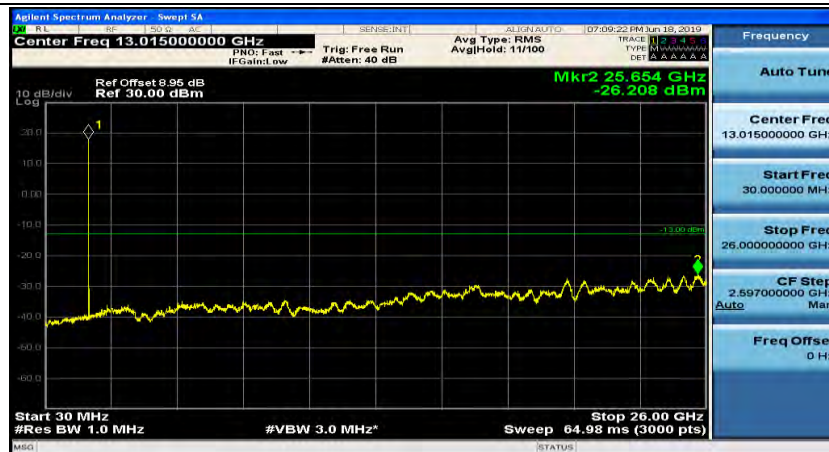
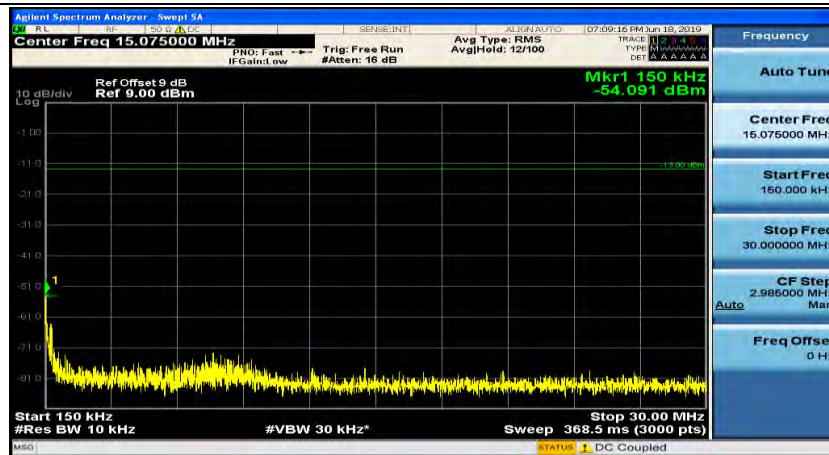


(Channel Bandwidth:20 MHz)_MCH_16QAM_1RB#49

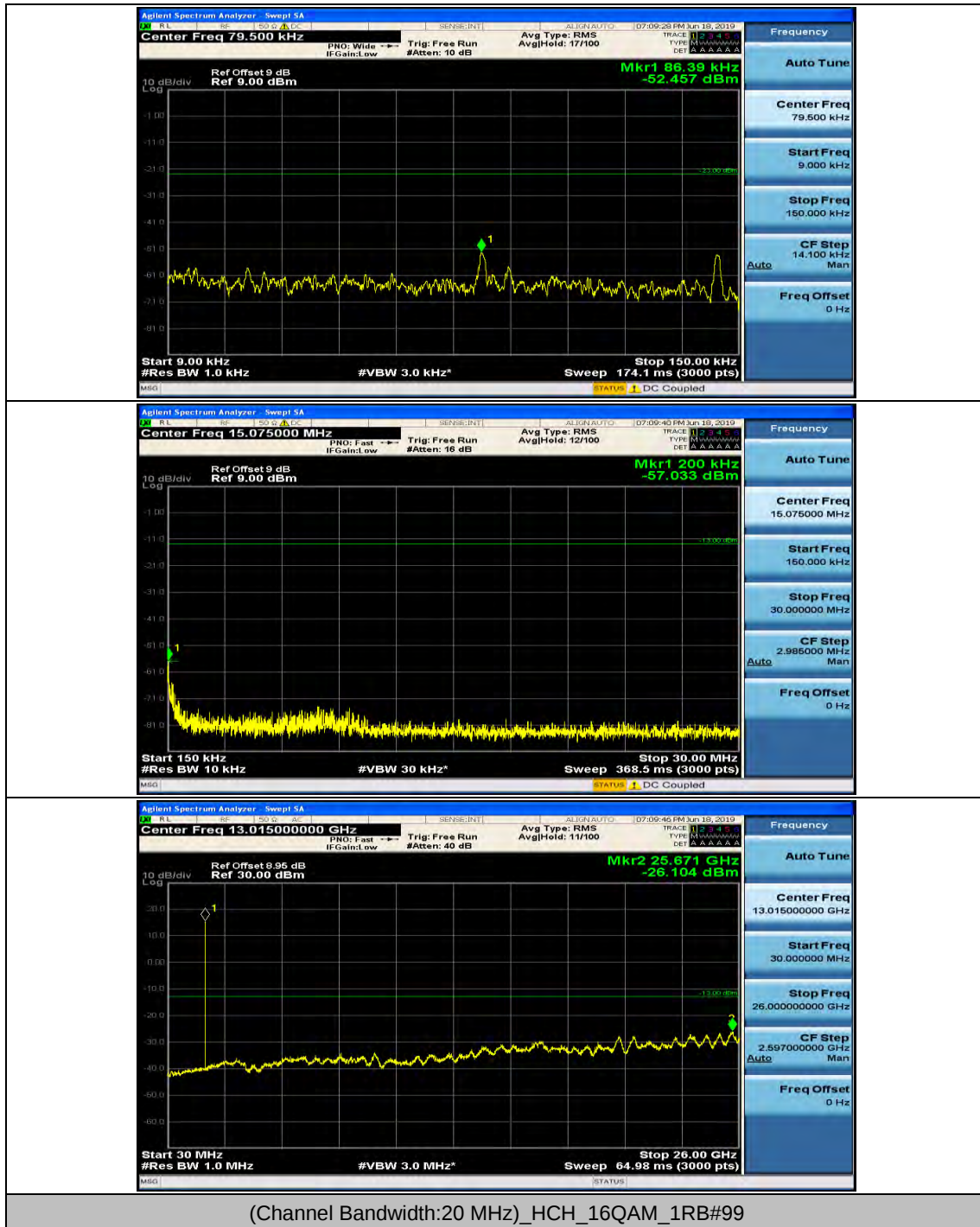


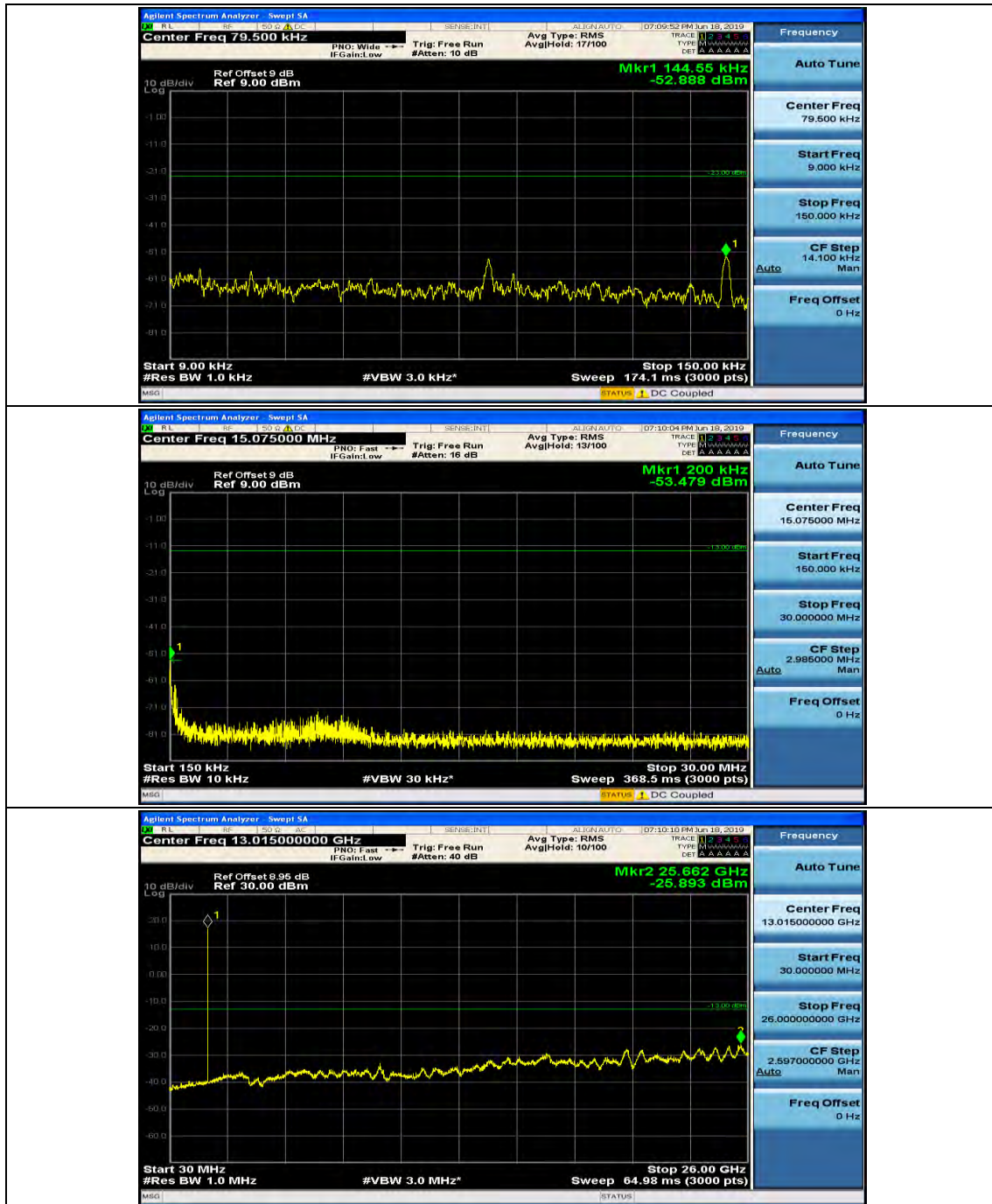


(Channel Bandwidth:20 MHz)_HCH_16QAM_1RB#0



(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	2.28	0.001333	± 2.5	PASS
		VN	TN	3.85	0.002251	± 2.5	PASS
		VH	TN	0.58	0.000339	± 2.5	PASS
	MCH	VL	TN	-0.08	-0.000046	± 2.5	PASS
		VN	TN	-1.97	-0.001137	± 2.5	PASS
		VH	TN	2.37	0.001368	± 2.5	PASS
	HCH	VL	TN	1.62	0.000923	± 2.5	PASS
		VN	TN	4.87	0.002776	± 2.5	PASS
		VH	TN	-0.89	-0.000507	± 2.5	PASS
16QAM	LCH	VL	TN	3.8	0.002221	± 2.5	PASS
		VN	TN	3.93	0.002297	± 2.5	PASS
		VH	TN	2.65	0.001549	± 2.5	PASS
	MCH	VL	TN	4.28	0.002470	± 2.5	PASS
		VN	TN	-1.55	-0.000895	± 2.5	PASS
		VH	TN	4.76	0.002747	± 2.5	PASS
	HCH	VL	TN	2.85	0.001625	± 2.5	PASS
		VN	TN	0.16	0.000091	± 2.5	PASS
		VH	TN	-0.35	-0.000200	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	2.53	0.001479	± 2.5	PASS
		VN	-20	-1.42	-0.000830	± 2.5	PASS
		VN	-10	2.15	0.001257	± 2.5	PASS
		VN	0	4.87	0.002847	± 2.5	PASS
		VN	10	-0.19	-0.000111	± 2.5	PASS
		VN	20	4.05	0.002367	± 2.5	PASS
		VN	30	0.34	0.000199	± 2.5	PASS
		VN	40	-1.91	-0.001117	± 2.5	PASS
		VN	50	4.24	0.002479	± 2.5	PASS
	MCH	VN	-30	2.83	0.001633	± 2.5	PASS
		VN	-20	-1.81	-0.001045	± 2.5	PASS

		VN	-10	1.07	0.000618	± 2.5	PASS
		VN	0	-0.29	-0.000167	± 2.5	PASS
		VN	10	-1.34	-0.000773	± 2.5	PASS
		VN	20	4.2	0.002424	± 2.5	PASS
		VN	30	-0.77	-0.000444	± 2.5	PASS
		VN	40	1.81	0.001045	± 2.5	PASS
		VN	50	2.29	0.001322	± 2.5	PASS
	HCH	VN	-30	-0.89	-0.000507	± 2.5	PASS
		VN	-20	1.17	0.000667	± 2.5	PASS
		VN	-10	2.26	0.001288	± 2.5	PASS
		VN	0	4.69	0.002673	± 2.5	PASS
		VN	10	-1.35	-0.000770	± 2.5	PASS
		VN	20	-0.09	-0.000051	± 2.5	PASS
		VN	30	-0.61	-0.000348	± 2.5	PASS
		VN	40	3.23	0.001841	± 2.5	PASS
		VN	50	4.58	0.002611	± 2.5	PASS
16QAM	LCH	VN	-30	4.56	0.002666	± 2.5	PASS
		VN	-20	-0.07	-0.000041	± 2.5	PASS
		VN	-10	4.31	0.002519	± 2.5	PASS
		VN	0	-0.5	-0.000292	± 2.5	PASS
		VN	10	1.37	0.000801	± 2.5	PASS
		VN	20	0.23	0.000134	± 2.5	PASS
		VN	30	-1.47	-0.000859	± 2.5	PASS
		VN	40	1.83	0.001070	± 2.5	PASS
		VN	50	2.84	0.001660	± 2.5	PASS
	MCH	VN	-30	-1.32	-0.000752	± 2.5	PASS
		VN	-20	1.67	0.000952	± 2.5	PASS
		VN	-10	4.16	0.002371	± 2.5	PASS
		VN	0	-1.93	-0.001100	± 2.5	PASS
		VN	10	0.58	0.000331	± 2.5	PASS
		VN	20	2.62	0.001493	± 2.5	PASS
		VN	30	3.21	0.001830	± 2.5	PASS
		VN	40	2.91	0.001659	± 2.5	PASS
		VN	50	0.28	0.000160	± 2.5	PASS
	HCH	VN	-30	1.3	0.000741	± 2.5	PASS
		VN	-20	2.77	0.001579	± 2.5	PASS
		VN	-10	1.35	0.000770	± 2.5	PASS
		VN	0	4.3	0.002451	± 2.5	PASS
		VN	10	1.84	0.001049	± 2.5	PASS
		VN	20	3.25	0.001853	± 2.5	PASS
		VN	30	1.59	0.000906	± 2.5	PASS

		VN	40	-0.78	-0.000445	± 2.5	PASS
		VN	50	4.29	0.002445	± 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	3.84	0.002244	± 2.5	PASS
		VN	TN	2.84	0.001659	± 2.5	PASS
		VH	TN	-1.45	-0.000847	± 2.5	PASS
	MCH	VL	TN	2.68	0.001547	± 2.5	PASS
		VN	TN	2.41	0.001391	± 2.5	PASS
		VH	TN	-1.46	-0.000843	± 2.5	PASS
	HCH	VL	TN	4.74	0.002703	± 2.5	PASS
		VN	TN	4.8	0.002737	± 2.5	PASS
		VH	TN	3.51	0.002002	± 2.5	PASS
16QAM	LCH	VL	TN	1.51	0.000882	± 2.5	PASS
		VN	TN	1.04	0.000608	± 2.5	PASS
		VH	TN	1.44	0.000841	± 2.5	PASS
	MCH	VL	TN	-1.01	-0.000583	± 2.5	PASS
		VN	TN	4.95	0.002857	± 2.5	PASS
		VH	TN	1.16	0.000670	± 2.5	PASS
	HCH	VL	TN	1.02	0.000582	± 2.5	PASS
		VN	TN	4.74	0.002703	± 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	3.43	0.002004	± 2.5	PASS
		VN	-20	4.2	0.002454	± 2.5	PASS
		VN	-10	2.94	0.001718	± 2.5	PASS
		VN	0	1.14	0.000666	± 2.5	PASS
		VN	10	0.68	0.000397	± 2.5	PASS
		VN	20	-1.79	-0.001046	± 2.5	PASS
		VN	30	0.86	0.000502	± 2.5	PASS
		VN	40	2.34	0.001367	± 2.5	PASS
		VN	50	0.77	0.000450	± 2.5	PASS
	MCH	VN	-30	0.02	0.000012	± 2.5	PASS
		VN	-20	4.1	0.002367	± 2.5	PASS
		VN	-10	2.62	0.001512	± 2.5	PASS

		VN	0	0.65	0.000375	± 2.5	PASS
		VN	10	0.16	0.000092	± 2.5	PASS
		VN	20	2.63	0.001518	± 2.5	PASS
		VN	30	2.61	0.001506	± 2.5	PASS
		VN	40	-1.76	-0.001016	± 2.5	PASS
		VN	50	-0.37	-0.000214	± 2.5	PASS
	HCH	VN	-30	2.44	0.001392	± 2.5	PASS
		VN	-20	-1.17	-0.000667	± 2.5	PASS
		VN	-10	3.64	0.002076	± 2.5	PASS
		VN	0	0.36	0.000205	± 2.5	PASS
		VN	10	2.38	0.001357	± 2.5	PASS
		VN	20	-1.43	-0.000816	± 2.5	PASS
		VN	30	-1.45	-0.000827	± 2.5	PASS
		VN	40	4.31	0.002458	± 2.5	PASS
		VN	50	3.9	0.002224	± 2.5	PASS
QPSK	LCH	VN	-30	2.09	0.001206	± 2.5	PASS
		VN	-20	3.3	0.001905	± 2.5	PASS
		VN	-10	4.56	0.002632	± 2.5	PASS
		VN	0	0.29	0.000167	± 2.5	PASS
		VN	10	4.89	0.002823	± 2.5	PASS
		VN	20	-0.21	-0.000121	± 2.5	PASS
		VN	30	4.26	0.002459	± 2.5	PASS
		VN	40	4.04	0.002332	± 2.5	PASS
		VN	50	-1.15	-0.000664	± 2.5	PASS
	MCH	VN	-30	2.29	0.001306	± 2.5	PASS
		VN	-20	3.42	0.001950	± 2.5	PASS
		VN	-10	4.61	0.002629	± 2.5	PASS
		VN	0	1.03	0.000587	± 2.5	PASS
		VN	10	3.89	0.002218	± 2.5	PASS
		VN	20	-0.98	-0.000559	± 2.5	PASS
		VN	30	-1.03	-0.000587	± 2.5	PASS
		VN	40	3.12	0.001779	± 2.5	PASS
		VN	50	0.71	0.000405	± 2.5	PASS
	HCH	VN	-30	1.73	0.000987	± 2.5	PASS
		VN	-20	2.02	0.001152	± 2.5	PASS
		VN	-10	4.42	0.002521	± 2.5	PASS
		VN	0	0.98	0.000559	± 2.5	PASS
		VN	10	-1.27	-0.000724	± 2.5	PASS
		VN	20	1.51	0.000861	± 2.5	PASS
		VN	30	2.59	0.001477	± 2.5	PASS
		VN	40	-1.52	-0.000867	± 2.5	PASS

		VN	50	-0.9	-0.000513	± 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	4.5	0.002628	± 2.5	PASS
		VN	TN	4.92	0.002873	± 2.5	PASS
		VH	TN	-1.9	-0.001109	± 2.5	PASS
	MCH	VL	TN	-1	-0.000577	± 2.5	PASS
		VN	TN	-0.39	-0.000225	± 2.5	PASS
		VH	TN	1.83	0.001056	± 2.5	PASS
	HCH	VL	TN	0.99	0.000565	± 2.5	PASS
		VN	TN	4.9	0.002796	± 2.5	PASS
		VH	TN	3.6	0.002054	± 2.5	PASS
16QAM	LCH	VL	TN	-0.84	-0.000491	± 2.5	PASS
		VN	TN	0.84	0.000491	± 2.5	PASS
		VH	TN	-1.47	-0.000858	± 2.5	PASS
	MCH	VL	TN	2.24	0.001293	± 2.5	PASS
		VN	TN	2.39	0.001380	± 2.5	PASS
		VH	TN	-0.99	-0.000571	± 2.5	PASS
	HCH	VL	TN	3.53	0.002014	± 2.5	PASS
		VN	TN	2.91	0.001660	± 2.5	PASS
		VH	TN	-0.22	-0.000126	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	4.02	0.002347	± 2.5	PASS
		VN	-20	0.32	0.000187	± 2.5	PASS
		VN	-10	-1.89	-0.001104	± 2.5	PASS
		VN	0	0.48	0.000280	± 2.5	PASS
		VN	10	4.83	0.002820	± 2.5	PASS
		VN	20	0.07	0.000041	± 2.5	PASS
		VN	30	2.16	0.001261	± 2.5	PASS
		VN	40	3.57	0.002085	± 2.5	PASS
		VN	50	-1.52	-0.000888	± 2.5	PASS
	MCH	VN	-30	-1.96	-0.001131	± 2.5	PASS
		VN	-20	3.86	0.002228	± 2.5	PASS
		VN	-10	3.14	0.001812	± 2.5	PASS
		VN	0	-1.69	-0.000975	± 2.5	PASS

		VN	10	0.54	0.000312	± 2.5	PASS
		VN	20	4.27	0.002465	± 2.5	PASS
		VN	30	-1.45	-0.000837	± 2.5	PASS
		VN	40	0.88	0.000508	± 2.5	PASS
		VN	50	3.74	0.002159	± 2.5	PASS
	HCH	VN	-30	1.22	0.000696	± 2.5	PASS
		VN	-20	-1.03	-0.000540	± 2.5	PASS
		VN	-10	-0.42	-0.000220	± 2.5	PASS
		VN	0	0.01	0.000005	± 2.5	PASS
		VN	10	4.28	0.002244	± 2.5	PASS
		VN	20	0.31	0.000163	± 2.5	PASS
		VN	30	-1.34	-0.000702	± 2.5	PASS
		VN	40	1.28	0.000671	± 2.5	PASS
		VN	50	-0.58	-0.000304	± 2.5	PASS
16QAM	LCH	VN	-30	-0.37	-0.000214	± 2.5	PASS
		VN	-20	4.59	0.002649	± 2.5	PASS
		VN	-10	1.76	0.001016	± 2.5	PASS
		VN	0	-0.94	-0.000543	± 2.5	PASS
		VN	10	-0.14	-0.000081	± 2.5	PASS
		VN	20	0.05	0.000029	± 2.5	PASS
		VN	30	3.02	0.001743	± 2.5	PASS
		VN	40	0.93	0.000537	± 2.5	PASS
		VN	50	-0.7	-0.000404	± 2.5	PASS
	MCH	VN	-30	2.47	0.001409	± 2.5	PASS
		VN	-20	-1.33	-0.000759	± 2.5	PASS
		VN	-10	1.9	0.001084	± 2.5	PASS
		VN	0	-1.58	-0.000902	± 2.5	PASS
		VN	10	2.37	0.001352	± 2.5	PASS
		VN	20	0.48	0.000274	± 2.5	PASS
		VN	30	4.22	0.002408	± 2.5	PASS
		VN	40	-1.93	-0.001101	± 2.5	PASS
		VN	50	-0.74	-0.000422	± 2.5	PASS
	HCH	VN	-30	4.17	0.002186	± 2.5	PASS
		VN	-20	3.73	0.001955	± 2.5	PASS
		VN	-10	1.45	0.000760	± 2.5	PASS
		VN	0	2.66	0.001394	± 2.5	PASS
		VN	10	2.6	0.001363	± 2.5	PASS
		VN	20	1.27	0.000666	± 2.5	PASS
		VN	30	0.75	0.000393	± 2.5	PASS
		VN	40	1.19	0.000624	± 2.5	PASS
		VN	50	-0.65	-0.000341	± 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	4.91	0.002863	± 2.5	PASS
		VN	TN	-0.52	-0.000303	± 2.5	PASS
		VH	TN	4.55	0.002653	± 2.5	PASS
	MCH	VL	TN	-0.26	-0.000150	± 2.5	PASS
		VN	TN	2.52	0.001455	± 2.5	PASS
		VH	TN	2.23	0.001287	± 2.5	PASS
	HCH	VL	TN	-1.52	-0.000869	± 2.5	PASS
		VN	TN	4.71	0.002691	± 2.5	PASS
		VH	TN	1.25	0.000714	± 2.5	PASS
16QAM	LCH	VL	TN	2.78	0.001621	± 2.5	PASS
		VN	TN	4.64	0.002706	± 2.5	PASS
		VH	TN	1.78	0.001038	± 2.5	PASS
	MCH	VL	TN	-1.37	-0.000791	± 2.5	PASS
		VN	TN	4.64	0.002678	± 2.5	PASS
		VH	TN	-1.1	-0.000635	± 2.5	PASS
	HCH	VL	TN	3.9	0.002229	± 2.5	PASS
		VN	TN	-0.54	-0.000309	± 2.5	PASS
		VH	TN	2.08	0.001189	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
16QAM	LCH	VN	-30	1.46	0.000851	± 2.5	PASS
		VN	-20	2.87	0.001673	± 2.5	PASS
		VN	-10	1.97	0.001149	± 2.5	PASS
		VN	0	3.58	0.002087	± 2.5	PASS
		VN	10	1.27	0.000741	± 2.5	PASS
		VN	20	2.55	0.001487	± 2.5	PASS
		VN	30	-1.28	-0.000746	± 2.5	PASS
		VN	40	-1.93	-0.001125	± 2.5	PASS
		VN	50	1.35	0.000787	± 2.5	PASS
	MCH	VN	-30	4.75	0.002742	± 2.5	PASS
		VN	-20	1.14	0.000658	± 2.5	PASS
		VN	-10	0.42	0.000242	± 2.5	PASS
		VN	0	0.28	0.000162	± 2.5	PASS
		VN	10	-1.43	-0.000825	± 2.5	PASS
		VN	20	-0.11	-0.000063	± 2.5	PASS

		VN	30	1.95	0.001126	± 2.5	PASS
		VN	40	4.22	0.002436	± 2.5	PASS
		VN	50	2.77	0.001599	± 2.5	PASS
	HCH	VN	-30	1.85	0.001057	± 2.5	PASS
		VN	-20	2.23	0.001274	± 2.5	PASS
		VN	-10	4.28	0.002446	± 2.5	PASS
		VN	0	4.27	0.002440	± 2.5	PASS
		VN	10	2.38	0.001360	± 2.5	PASS
		VN	20	4.84	0.002766	± 2.5	PASS
		VN	30	-1.34	-0.000766	± 2.5	PASS
		VN	40	2.57	0.001469	± 2.5	PASS
		VN	50	2.32	0.001326	± 2.5	PASS
QPSK	LCH	VN	-30	-1.92	-0.001108	± 2.5	PASS
		VN	-20	0.67	0.000387	± 2.5	PASS
		VN	-10	4.69	0.002707	± 2.5	PASS
		VN	0	0.07	0.000040	± 2.5	PASS
		VN	10	3.11	0.001795	± 2.5	PASS
		VN	20	0.92	0.000531	± 2.5	PASS
		VN	30	2.66	0.001535	± 2.5	PASS
		VN	40	-0.88	-0.000508	± 2.5	PASS
		VN	50	-0.2	-0.000115	± 2.5	PASS
	MCH	VN	-30	0.81	0.000463	± 2.5	PASS
		VN	-20	-1.93	-0.001103	± 2.5	PASS
		VN	-10	-1.36	-0.000777	± 2.5	PASS
		VN	0	0.58	0.000331	± 2.5	PASS
		VN	10	3.25	0.001857	± 2.5	PASS
		VN	20	3.75	0.002143	± 2.5	PASS
		VN	30	0.14	0.000080	± 2.5	PASS
		VN	40	0.87	0.000497	± 2.5	PASS
		VN	50	2.12	0.001211	± 2.5	PASS
	HCH	VN	-30	-1.59	-0.000909	± 2.5	PASS
		VN	-20	4.13	0.002360	± 2.5	PASS
		VN	-10	-1.67	-0.000954	± 2.5	PASS
		VN	0	-0.5	-0.000286	± 2.5	PASS
		VN	10	1.58	0.000903	± 2.5	PASS
		VN	20	3.58	0.002046	± 2.5	PASS
		VN	30	2.95	0.001686	± 2.5	PASS
		VN	40	1.06	0.000606	± 2.5	PASS
		VN	50	-0.21	-0.000120	± 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	3.64	0.002119	± 2.5	PASS
		VN	TN	4.87	0.002836	± 2.5	PASS
		VH	TN	0.68	0.000396	± 2.5	PASS
	MCH	VL	TN	1.13	0.000652	± 2.5	PASS
		VN	TN	-0.29	-0.000167	± 2.5	PASS
		VH	TN	2.75	0.001587	± 2.5	PASS
	HCH	VL	TN	0.48	0.000275	± 2.5	PASS
		VN	TN	2.07	0.001185	± 2.5	PASS
		VH	TN	3.17	0.001814	± 2.5	PASS
16QAM	LCH	VL	TN	3.58	0.002084	± 2.5	PASS
		VN	TN	2.61	0.001520	± 2.5	PASS
		VH	TN	-0.44	-0.000256	± 2.5	PASS
	MCH	VL	TN	2.26	0.001304	± 2.5	PASS
		VN	TN	-1.32	-0.000762	± 2.5	PASS
		VH	TN	-0.34	-0.000196	± 2.5	PASS
	HCH	VL	TN	-0.77	-0.000441	± 2.5	PASS
		VN	TN	2.5	0.001431	± 2.5	PASS
		VH	TN	4.97	0.002844	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	0.52	0.000303	± 2.5	PASS
		VN	-20	3.39	0.001974	± 2.5	PASS
		VN	-10	0.76	0.000443	± 2.5	PASS
		VN	0	-0.36	-0.000210	± 2.5	PASS
		VN	10	-1.12	-0.000652	± 2.5	PASS
		VN	20	-0.89	-0.000518	± 2.5	PASS
		VN	30	4.91	0.002859	± 2.5	PASS
		VN	40	-0.19	-0.000111	± 2.5	PASS
		VN	50	-0.68	-0.000396	± 2.5	PASS
	MCH	VN	-30	3.8	0.002193	± 2.5	PASS
		VN	-20	-1.91	-0.001102	± 2.5	PASS
		VN	-10	2.11	0.001218	± 2.5	PASS
		VN	0	0.59	0.000341	± 2.5	PASS
		VN	10	3.04	0.001755	± 2.5	PASS
		VN	20	4.18	0.002413	± 2.5	PASS

		VN	30	4.44	0.002563	± 2.5	PASS
		VN	40	0.59	0.000341	± 2.5	PASS
		VN	50	-1.78	-0.001027	± 2.5	PASS
	HCH	VN	-30	4	0.002289	± 2.5	PASS
		VN	-20	-1.17	-0.000670	± 2.5	PASS
		VN	-10	2	0.001144	± 2.5	PASS
		VN	0	2.18	0.001247	± 2.5	PASS
		VN	10	1.09	0.000624	± 2.5	PASS
		VN	20	-0.81	-0.000464	± 2.5	PASS
		VN	30	4	0.002289	± 2.5	PASS
		VN	40	4.18	0.002392	± 2.5	PASS
		VN	50	-1.08	-0.000618	± 2.5	PASS
QPSK	LCH	VN	-30	2.25	0.001299	± 2.5	PASS
		VN	-20	-1.37	-0.000791	± 2.5	PASS
		VN	-10	3.19	0.001841	± 2.5	PASS
		VN	0	0.5	0.000289	± 2.5	PASS
		VN	10	-1.35	-0.000779	± 2.5	PASS
		VN	20	-1.86	-0.001074	± 2.5	PASS
		VN	30	-0.75	-0.000433	± 2.5	PASS
		VN	40	2.64	0.001524	± 2.5	PASS
		VN	50	-1.32	-0.000762	± 2.5	PASS
	MCH	VN	-30	0.54	0.000309	± 2.5	PASS
		VN	-20	-0.44	-0.000252	± 2.5	PASS
		VN	-10	-1.74	-0.000996	± 2.5	PASS
		VN	0	1.46	0.000835	± 2.5	PASS
		VN	10	3.69	0.002112	± 2.5	PASS
		VN	20	3.99	0.002283	± 2.5	PASS
		VN	30	3.1	0.001774	± 2.5	PASS
		VN	40	2.9	0.001660	± 2.5	PASS
		VN	50	1.56	0.000893	± 2.5	PASS
	HCH	VN	-30	2.98	0.001705	± 2.5	PASS
		VN	-20	-0.26	-0.000149	± 2.5	PASS
		VN	-10	3.01	0.001722	± 2.5	PASS
		VN	0	3.11	0.001780	± 2.5	PASS
		VN	10	-1.06	-0.000607	± 2.5	PASS
		VN	20	2.42	0.001385	± 2.5	PASS
		VN	30	0.37	0.000212	± 2.5	PASS
		VN	40	-0.17	-0.000097	± 2.5	PASS
		VN	50	4.16	0.002381	± 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	3.28	0.001907	± 2.5	PASS
		VN	TN	2.91	0.001692	± 2.5	PASS
		VH	TN	4.85	0.002820	± 2.5	PASS
	MCH	VL	TN	3.85	0.002222	± 2.5	PASS
		VN	TN	-0.28	-0.000162	± 2.5	PASS
		VH	TN	3.6	0.002078	± 2.5	PASS
	HCH	VL	TN	2.16	0.001238	± 2.5	PASS
		VN	TN	-0.66	-0.000378	± 2.5	PASS
		VH	TN	4.41	0.002527	± 2.5	PASS
16QAM	LCH	VL	TN	0.95	0.000552	± 2.5	PASS
		VN	TN	-0.94	-0.000547	± 2.5	PASS
		VH	TN	4.14	0.002407	± 2.5	PASS
	MCH	VL	TN	4.54	0.002620	± 2.5	PASS
		VN	TN	4.79	0.002765	± 2.5	PASS
		VH	TN	1.11	0.000641	± 2.5	PASS
	HCH	VL	TN	-0.08	-0.000046	± 2.5	PASS
		VN	TN	4.97	0.002848	± 2.5	PASS
		VH	TN	2.15	0.001232	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-0.1	-0.000058	± 2.5	PASS
		VN	-20	1.92	0.001116	± 2.5	PASS
		VN	-10	-0.07	-0.000041	± 2.5	PASS
		VN	0	1.56	0.000907	± 2.5	PASS
		VN	10	3.2	0.001860	± 2.5	PASS
		VN	20	-0.52	-0.000302	± 2.5	PASS
		VN	30	2.36	0.001372	± 2.5	PASS
		VN	40	2.36	0.001372	± 2.5	PASS
		VN	50	1.5	0.000872	± 2.5	PASS
	MCH	VN	-30	1.33	0.000768	± 2.5	PASS
		VN	-20	-0.05	-0.000029	± 2.5	PASS
		VN	-10	4	0.002309	± 2.5	PASS
		VN	0	4.02	0.002320	± 2.5	PASS
		VN	10	1.22	0.000704	± 2.5	PASS
		VN	20	2.64	0.001524	± 2.5	PASS

		VN	30	4.3	0.002482	± 2.5	PASS
		VN	40	2.2	0.001270	± 2.5	PASS
		VN	50	3.9	0.002251	± 2.5	PASS
	HCH	VN	-30	4.76	0.002728	± 2.5	PASS
		VN	-20	2.2	0.001261	± 2.5	PASS
		VN	-10	3.07	0.001759	± 2.5	PASS
		VN	0	2.09	0.001198	± 2.5	PASS
		VN	10	4.24	0.002430	± 2.5	PASS
		VN	20	0.38	0.000218	± 2.5	PASS
		VN	30	0.91	0.000521	± 2.5	PASS
		VN	40	4.47	0.002562	± 2.5	PASS
		VN	50	-0.66	-0.000378	± 2.5	PASS
QPSK	LCH	VN	-30	3.68	0.002124	± 2.5	PASS
		VN	-20	2.79	0.001610	± 2.5	PASS
		VN	-10	-0.19	-0.000110	± 2.5	PASS
		VN	0	3.49	0.002014	± 2.5	PASS
		VN	10	1.66	0.000958	± 2.5	PASS
		VN	20	-0.94	-0.000543	± 2.5	PASS
		VN	30	0.83	0.000479	± 2.5	PASS
		VN	40	2.13	0.001229	± 2.5	PASS
		VN	50	3.72	0.002147	± 2.5	PASS
	MCH	VN	-30	1.84	0.001054	± 2.5	PASS
		VN	-20	3.46	0.001983	± 2.5	PASS
		VN	-10	3.18	0.001822	± 2.5	PASS
		VN	0	-1.12	-0.000642	± 2.5	PASS
		VN	10	3.07	0.001759	± 2.5	PASS
		VN	20	3.46	0.001983	± 2.5	PASS
		VN	30	0.68	0.000390	± 2.5	PASS
		VN	40	-1.02	-0.000585	± 2.5	PASS
		VN	50	1.11	0.000636	± 2.5	PASS
	HCH	VN	-30	-1.05	-0.000602	± 2.5	PASS
		VN	-20	4.99	0.002860	± 2.5	PASS
		VN	-10	-1.31	-0.000751	± 2.5	PASS
		VN	0	1.32	0.000756	± 2.5	PASS
		VN	10	0.09	0.000052	± 2.5	PASS
		VN	20	3.96	0.002269	± 2.5	PASS
		VN	30	-0.71	-0.000407	± 2.5	PASS
		VN	40	-0.72	-0.000413	± 2.5	PASS
		VN	50	0.4	0.000229	± 2.5	PASS