(Channel Bandwidth:15 MHz)_HCH_16QAM_1RB#74

Channel Bandwidth: 20 MHz

(Channel Bandwidth:20 MHz)_LCH_QPSK_1RB#0
(Channel Bandwidth:20 MHz)_LCH_QPSK_1RB#49

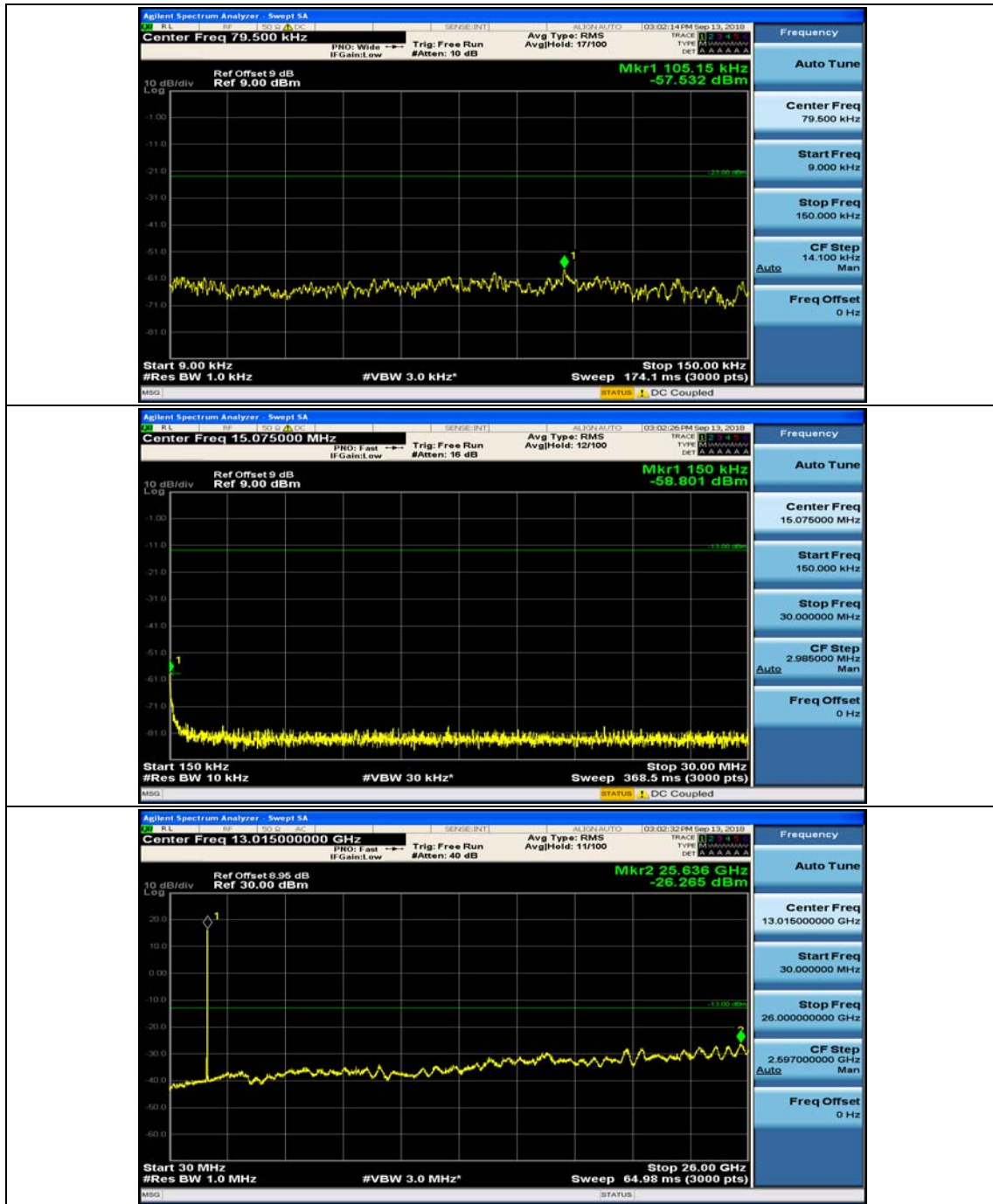(Channel Bandwidth:20 MHz)_LCH_QPSK_1RB#99

(Channel Bandwidth:20 MHz)_MCH_QPSK_1RB#0
(Channel Bandwidth:20 MHz)_MCH_QPSK_1RB#49

(Channel Bandwidth:20 MHz)_MCH_QPSK_1RB#99
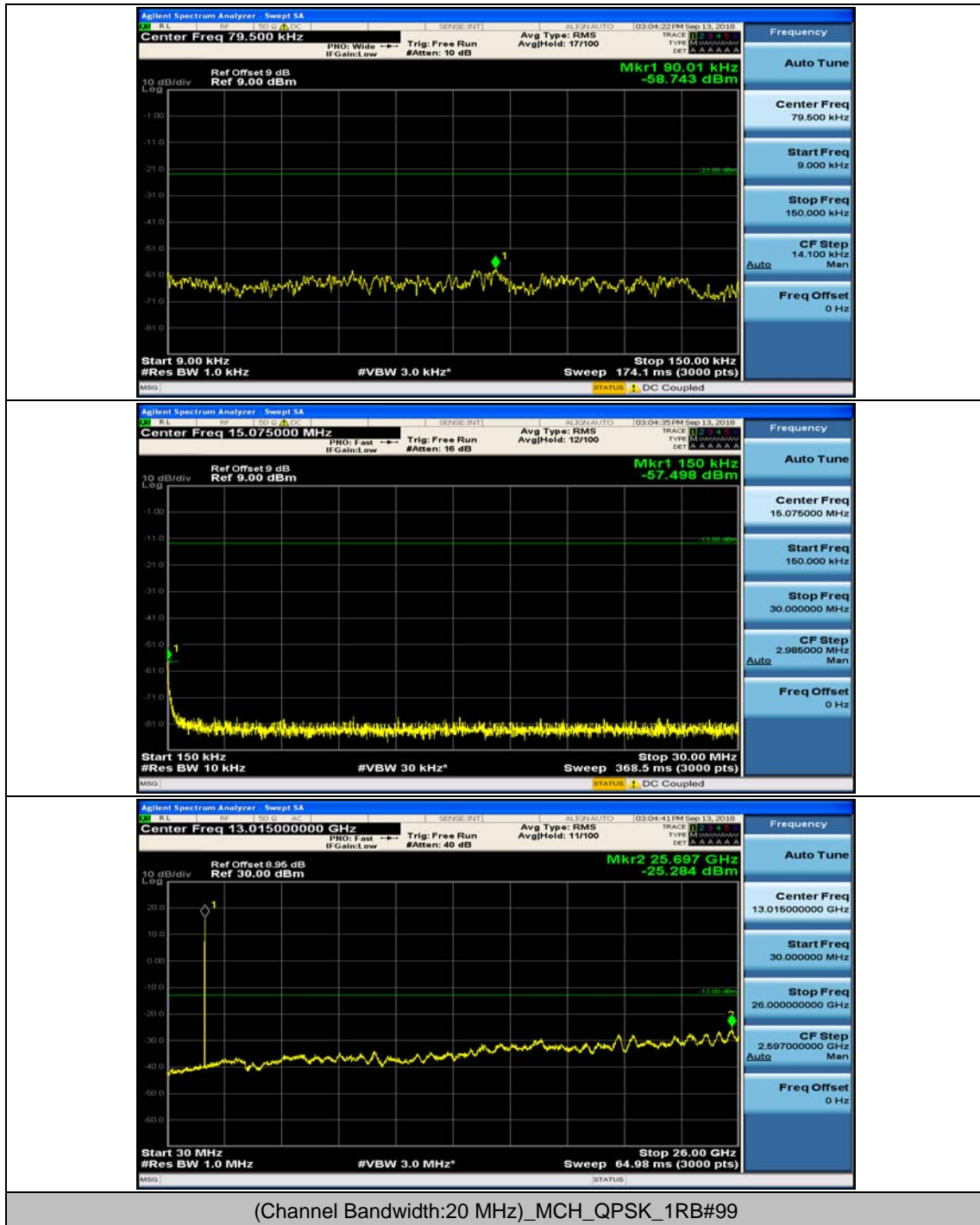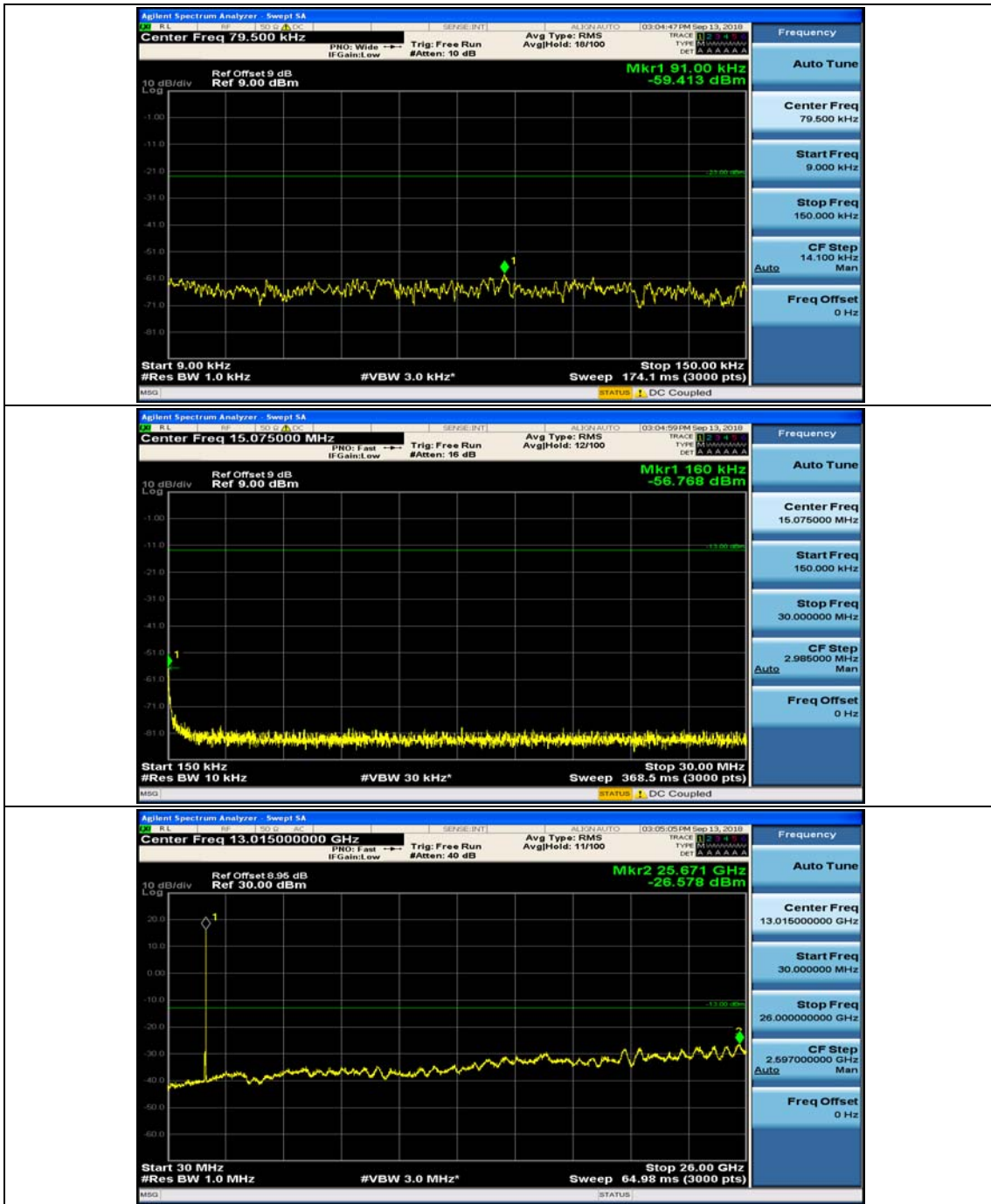
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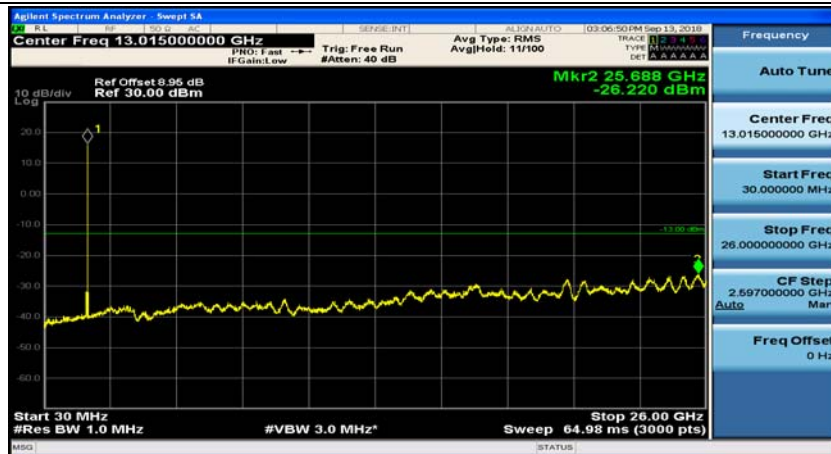
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(Channel Bandwidth:20 MHz)_HCH_QPSK_1RB#99

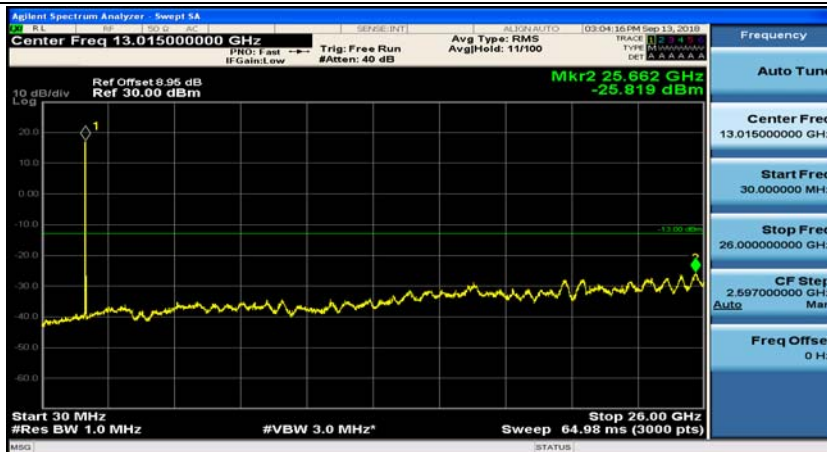| (Channel Bandwidth:20 MHz)_LCH_16QAM_1RB#0 |
| --- |
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| |
| |
| (Channel Bandwidth:20 MHz)_LCH_16QAM_1RB#49 |
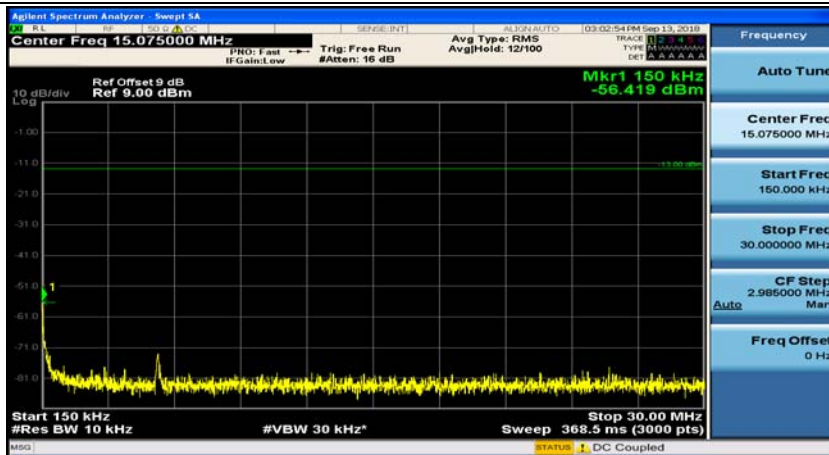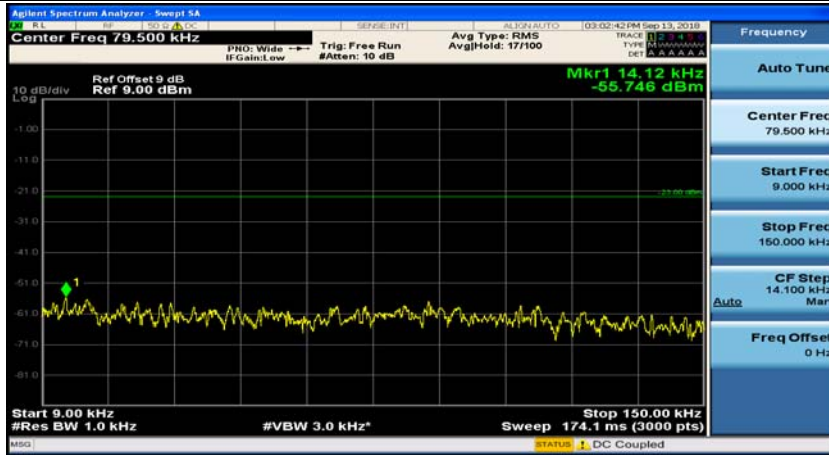
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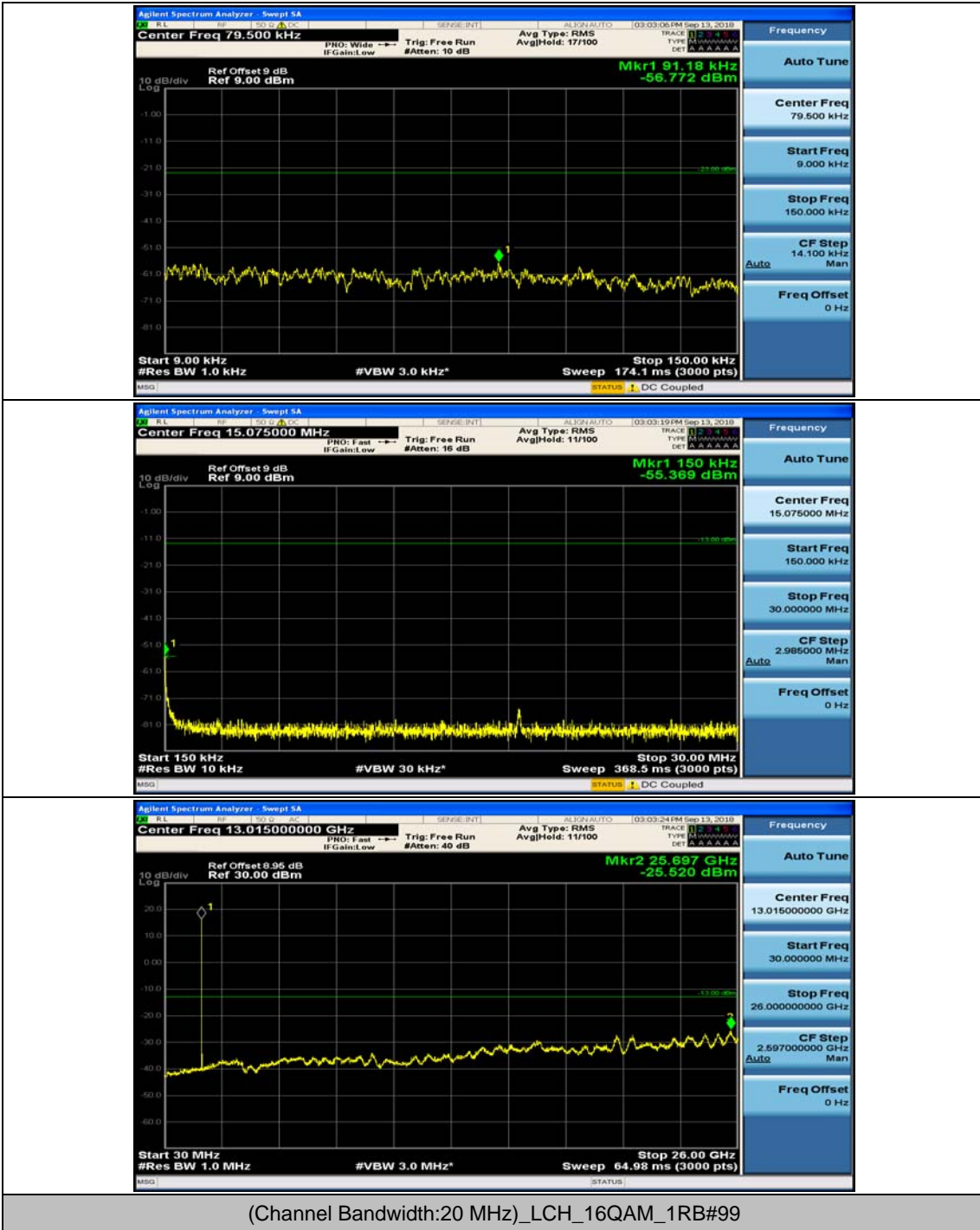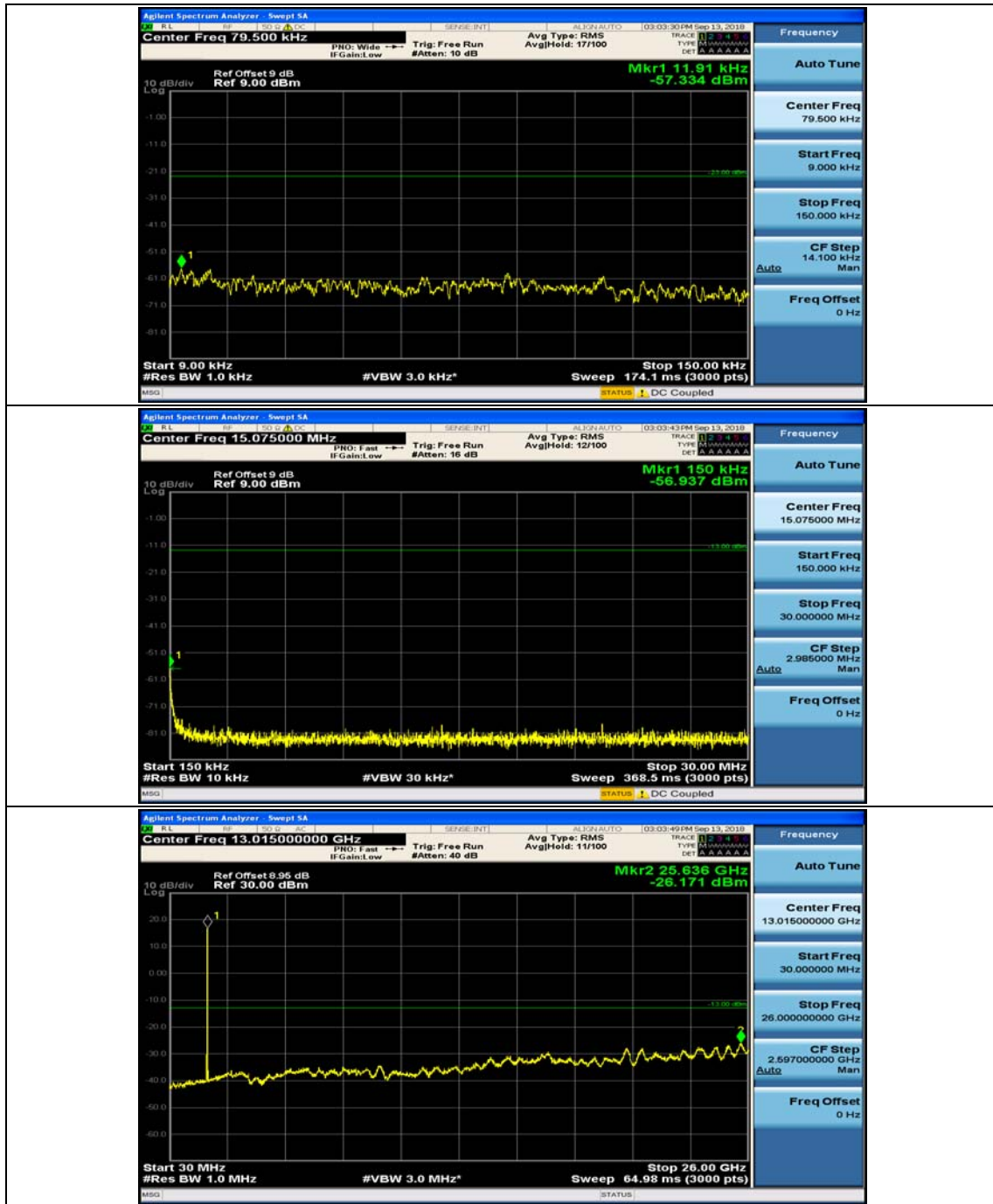
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(Channel Bandwidth:20 MHz)_MCH_16QAM_1RB#49
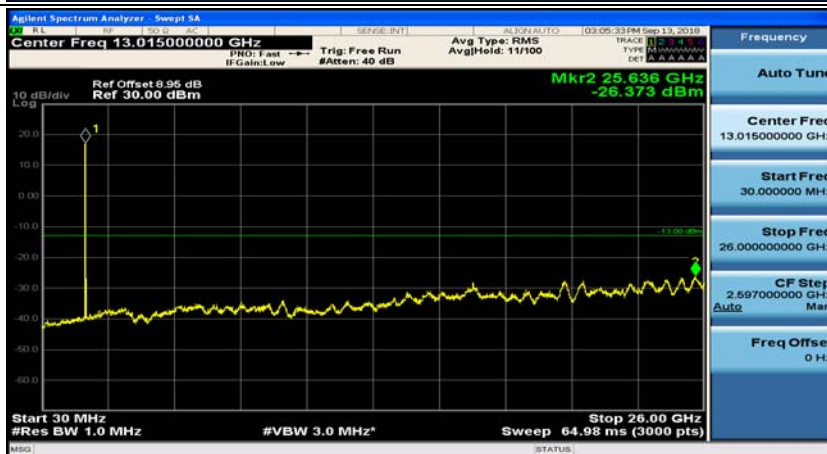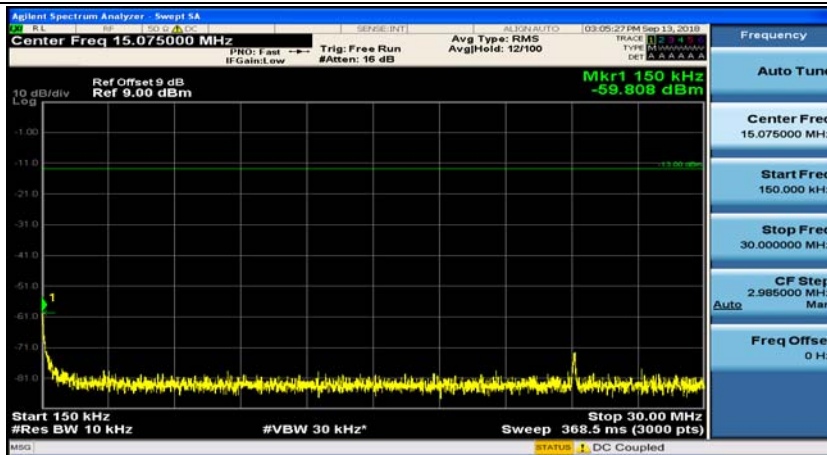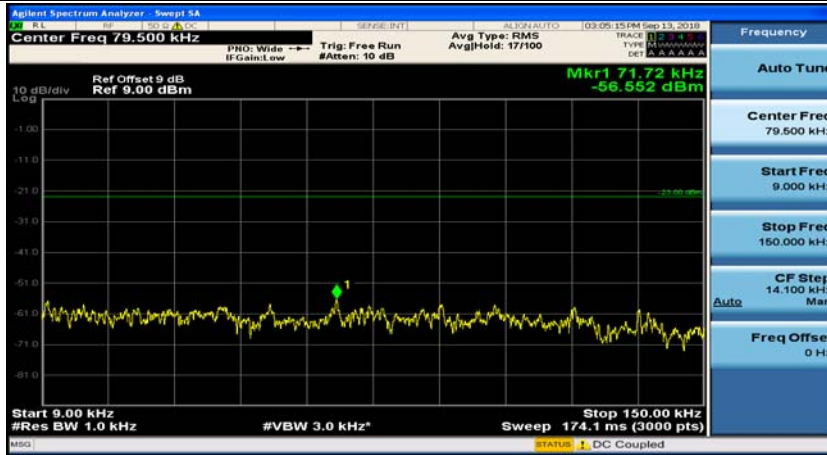
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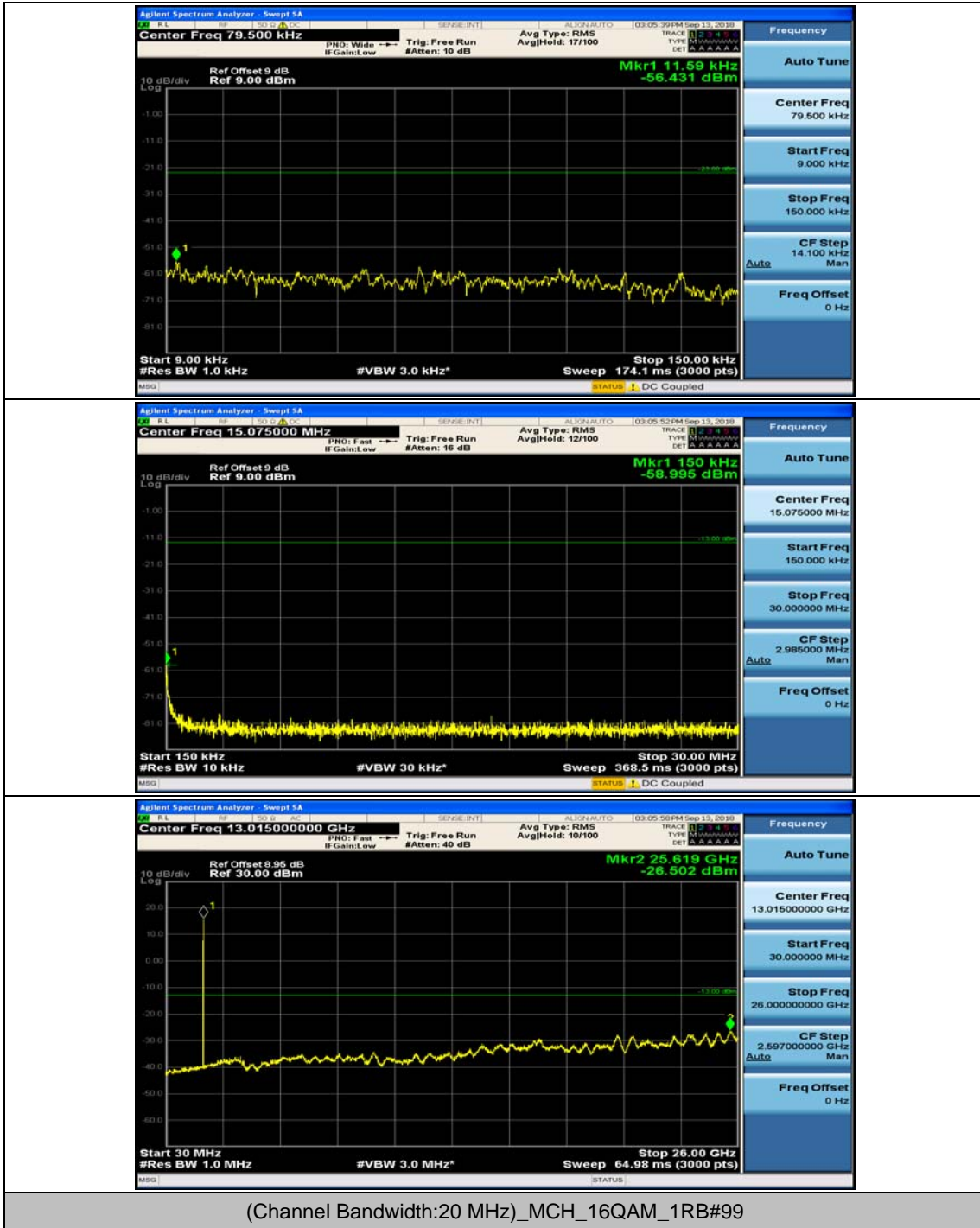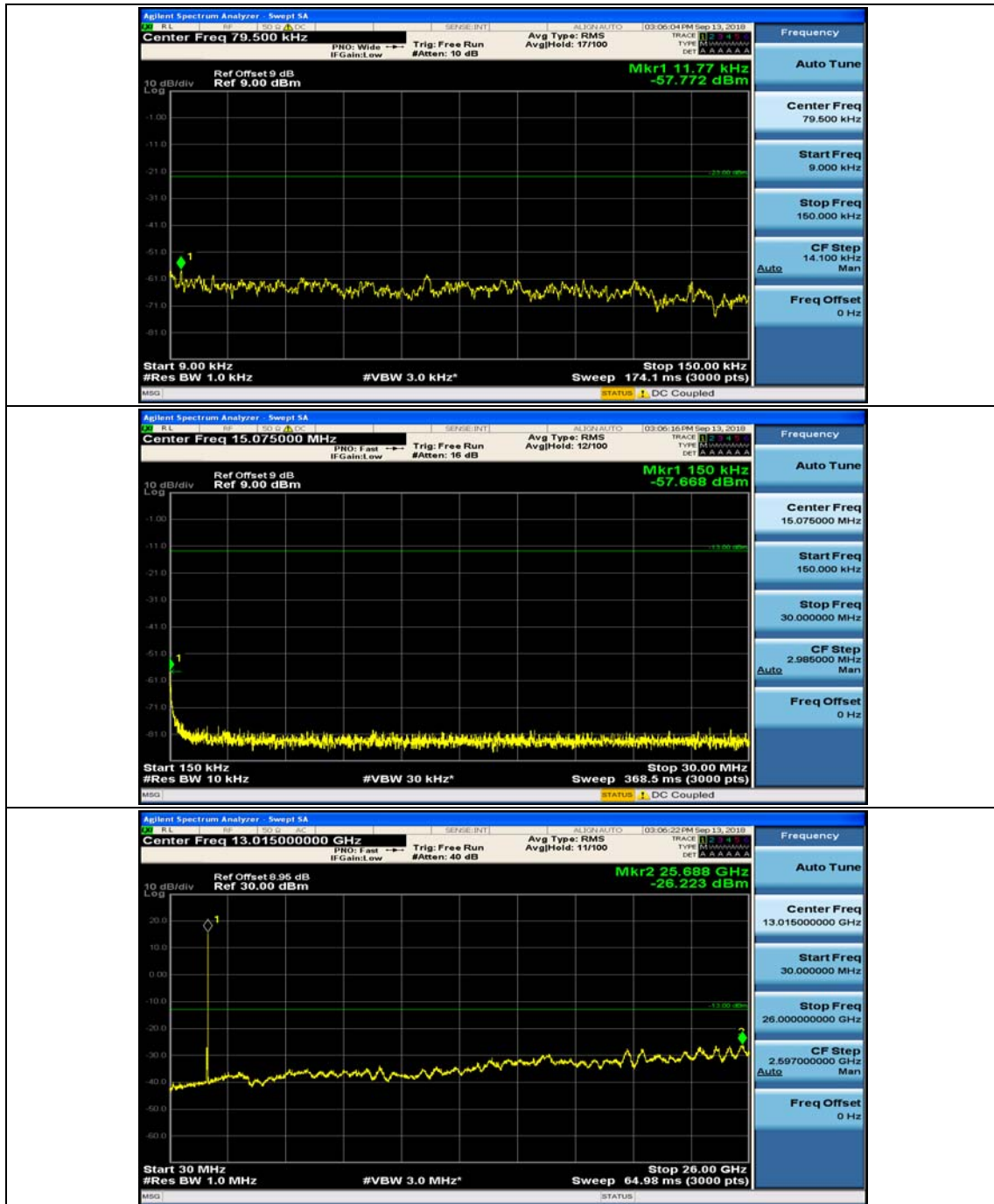
(Channel Bandwidth:20 MHz)_HCH_16QAM_1RB#0
(Channel Bandwidth:20 MHz)_HCH_16QAM_1RB#49

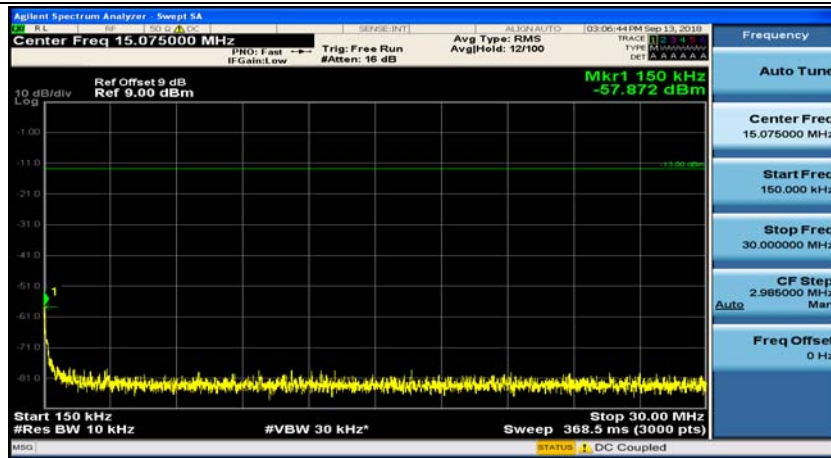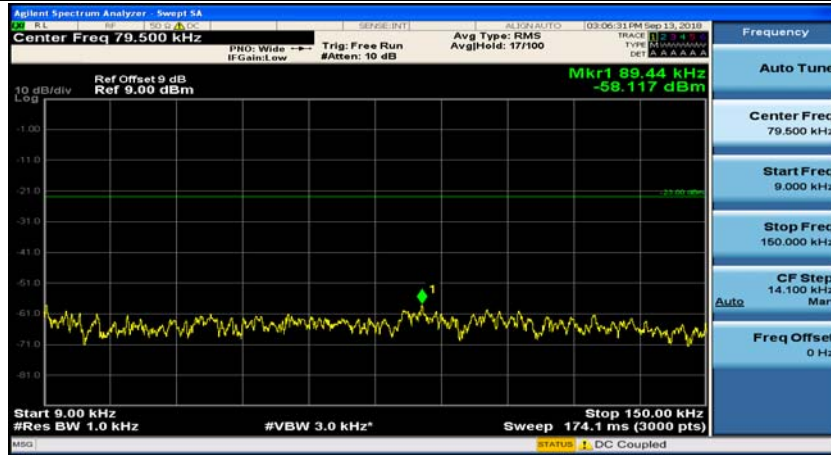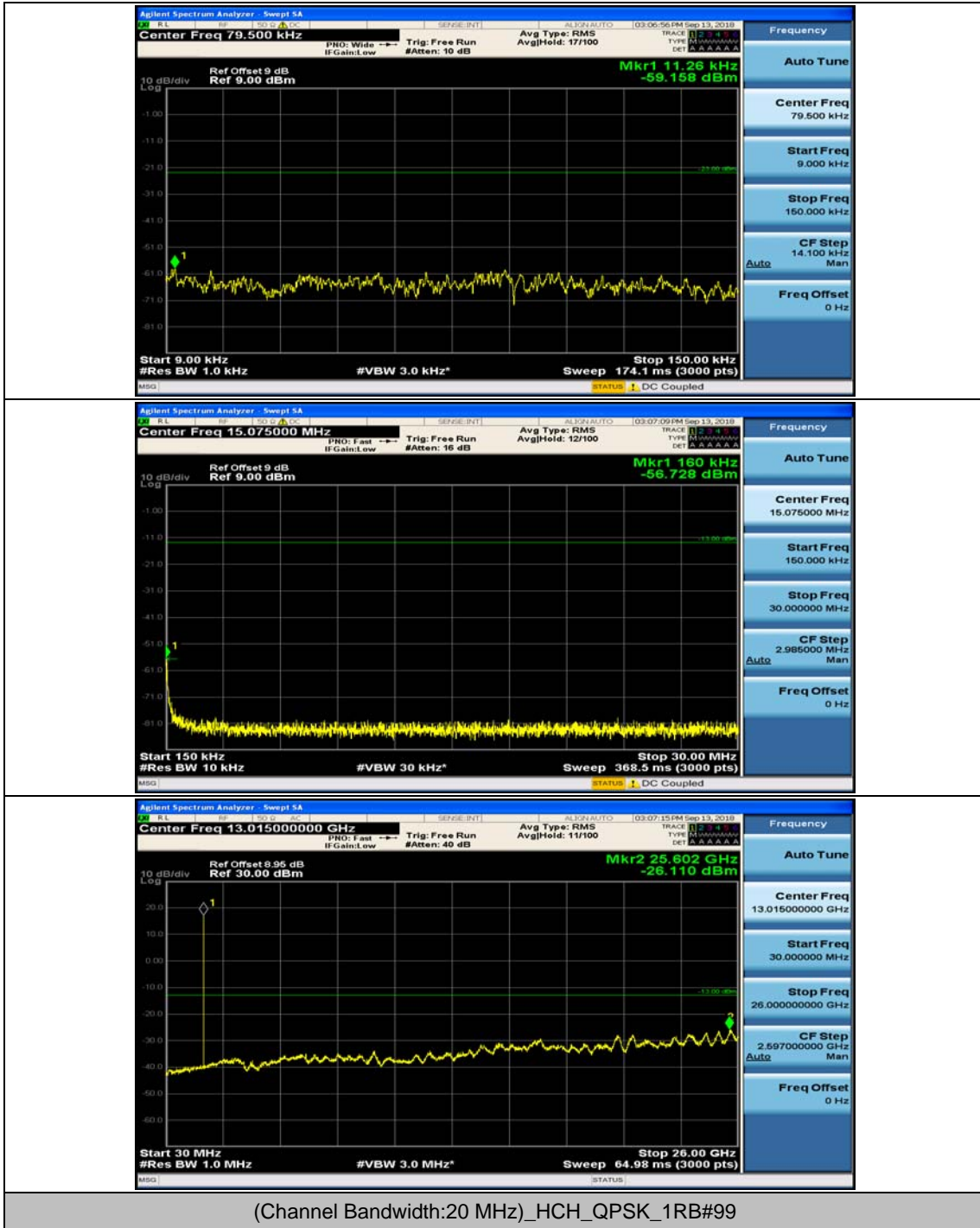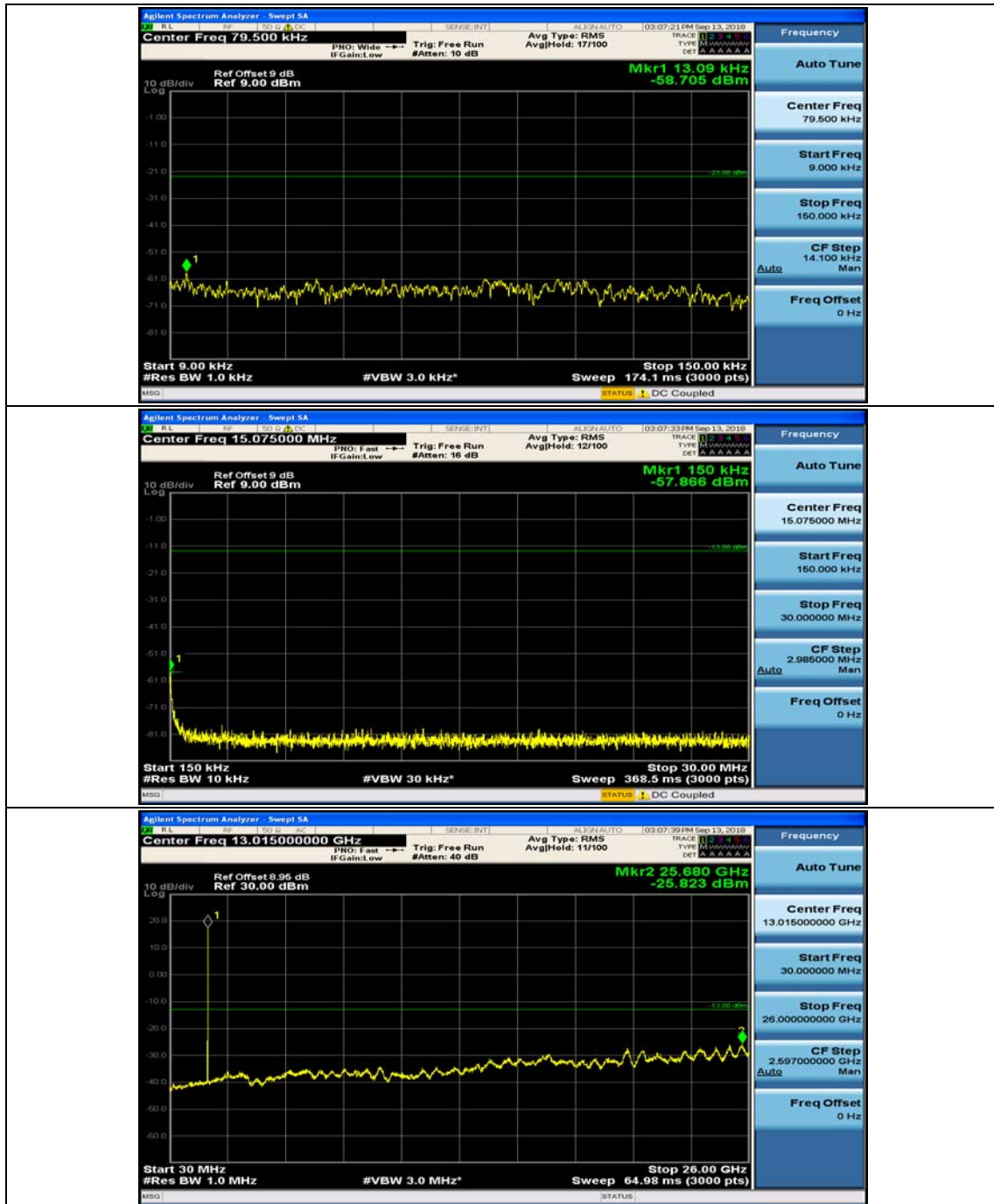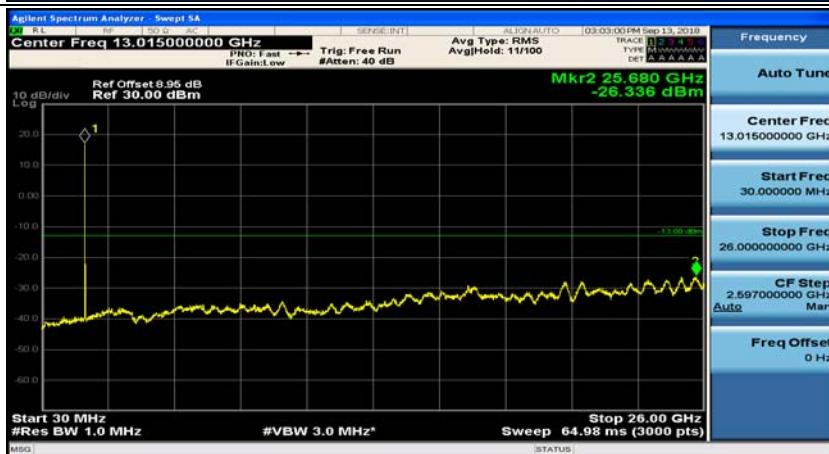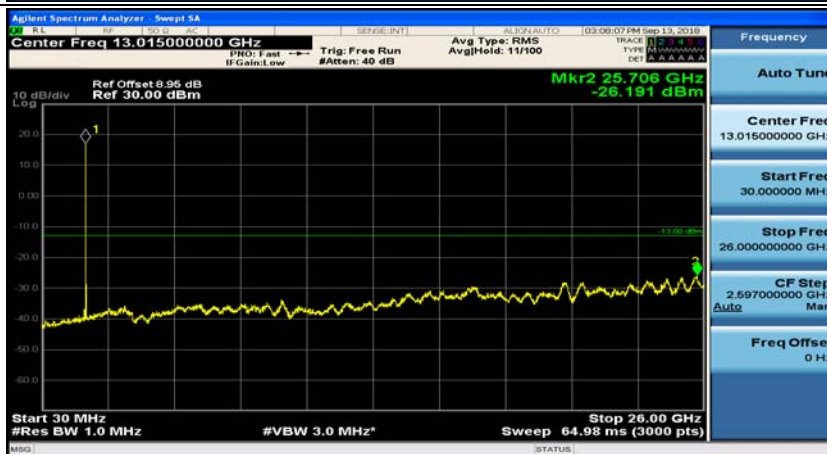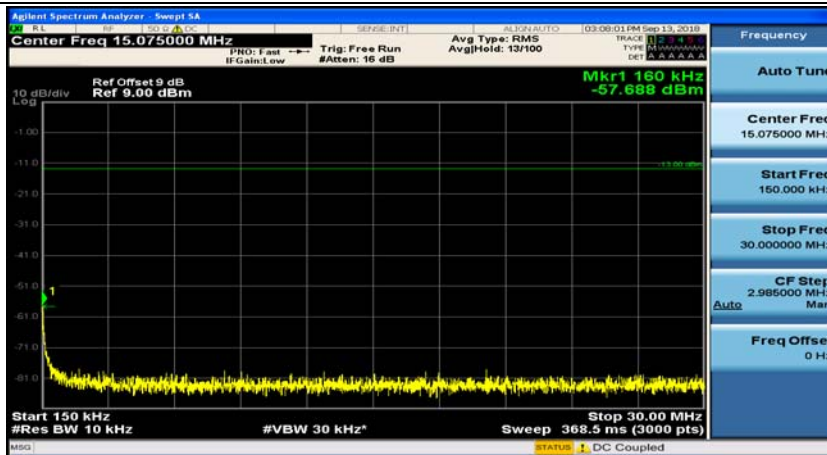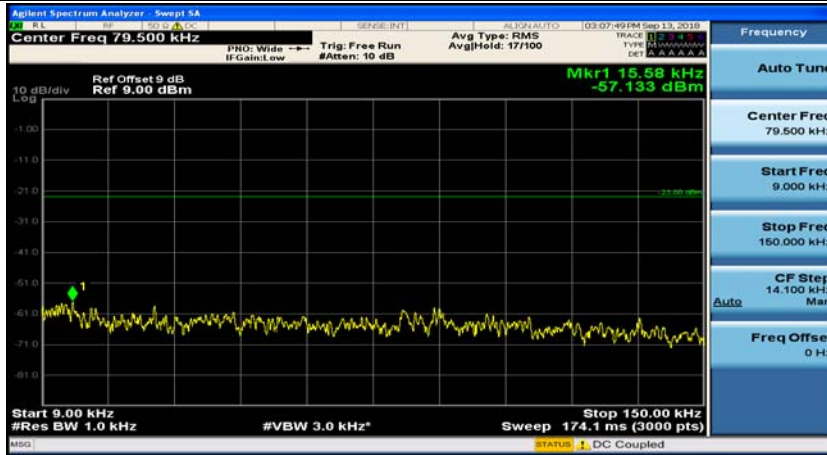(Channel Bandwidth:20 MHz)_HCH_16QAM_1RB#99
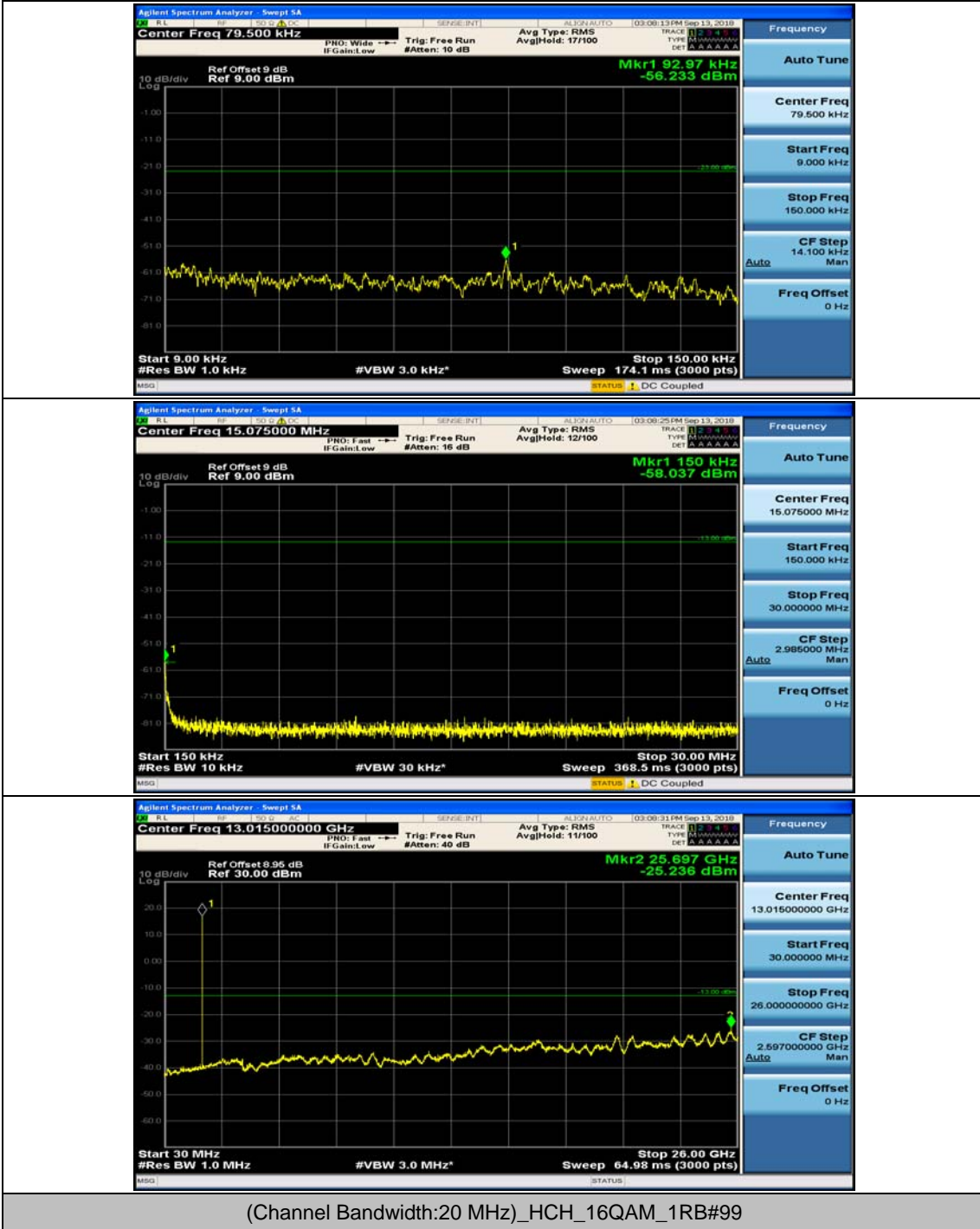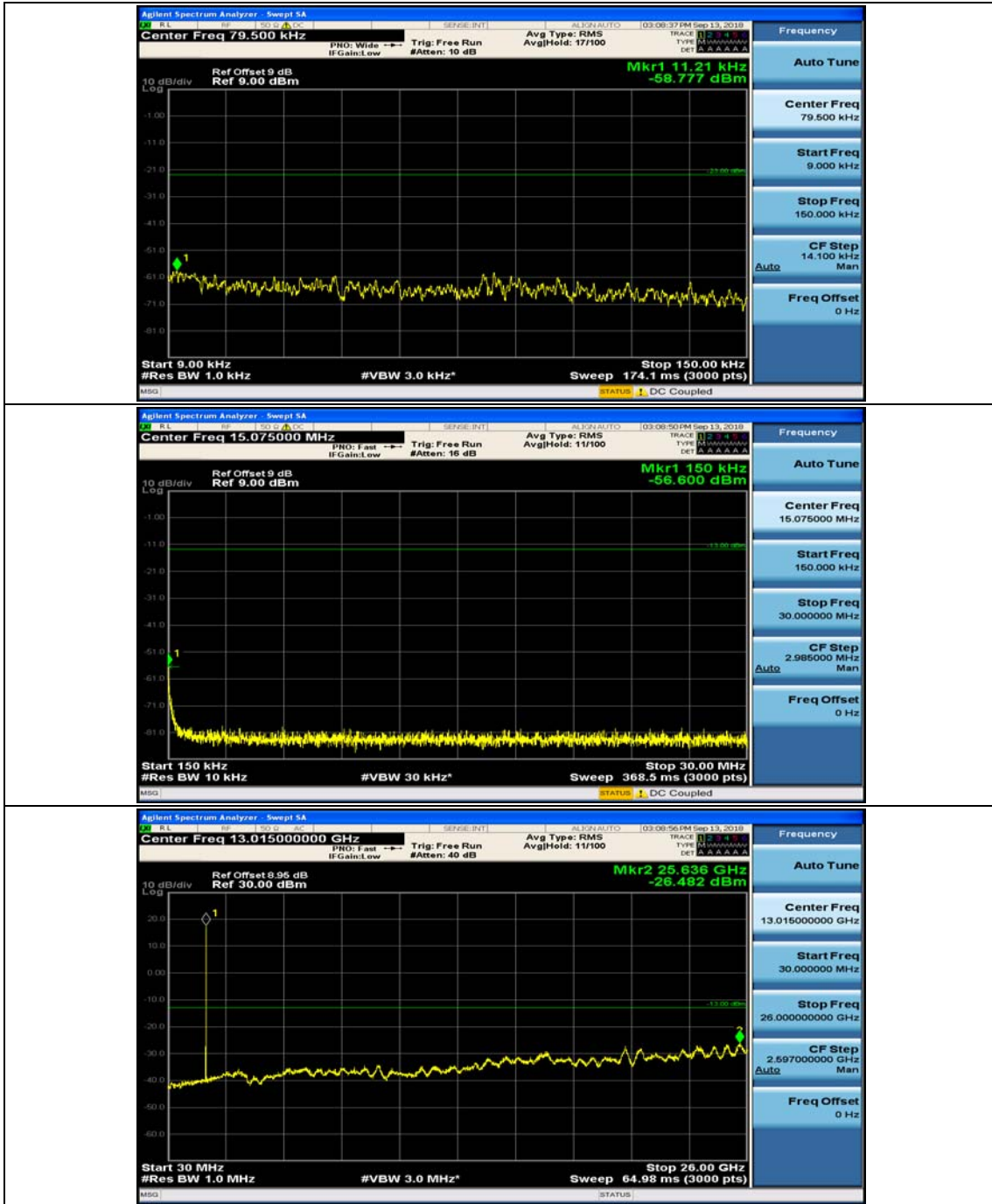
Appendix F: Frequency Stability

Test Result

Channel Bandwidth: 1.4 MHz

Channel Bandwidth: 1.4 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	4.43	0.002590	± 2.5	PASS
		VN	TN	-0.36	-0.000210	± 2.5	PASS
		VH	TN	1.14	0.000666	± 2.5	PASS
	MCH	VL	TN	-0.4	-0.000231	± 2.5	PASS
		VN	TN	-1.24	-0.000716	± 2.5	PASS
		VH	TN	-1.48	-0.000854	± 2.5	PASS
	HCH	VL	TN	2.21	0.001260	± 2.5	PASS
		VN	TN	2.25	0.001283	± 2.5	PASS
		VH	TN	4.98	0.002839	± 2.5	PASS
16QAM	LCH	VL	TN	4.69	0.002742	± 2.5	PASS
		VN	TN	2.66	0.001555	± 2.5	PASS
		VH	TN	4.09	0.002391	± 2.5	PASS
	MCH	VL	TN	4.87	0.002811	± 2.5	PASS
		VN	TN	-1.52	-0.000877	± 2.5	PASS
		VH	TN	1.33	0.000768	± 2.5	PASS
	HCH	VL	TN	0.82	0.000467	± 2.5	PASS
		VN	TN	3.92	0.002235	± 2.5	PASS
		VH	TN	0.33	0.000188	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	0.83	0.000485	± 2.5	PASS
		VN	-20	3.58	0.002093	± 2.5	PASS
		VN	-10	0.12	0.000070	± 2.5	PASS
		VN	0	-1.65	-0.000965	± 2.5	PASS
		VN	10	-1.67	-0.000976	± 2.5	PASS
		VN	20	1.57	0.000918	± 2.5	PASS
		VN	30	3.87	0.002262	± 2.5	PASS
		VN	40	-1.45	-0.000848	± 2.5	PASS
		VN	50	-1.67	-0.000976	± 2.5	PASS
	MCH	VN	-30	1.52	0.000877	± 2.5	PASS

		VN	-20	3.93	0.002268	± 2.5	PASS
		VN	-10	0.59	0.000341	± 2.5	PASS
		VN	0	3.07	0.001772	± 2.5	PASS
		VN	10	2.92	0.001685	± 2.5	PASS
		VN	20	0.95	0.000548	± 2.5	PASS
		VN	30	0.87	0.000502	± 2.5	PASS
		VN	40	1.79	0.001033	± 2.5	PASS
		VN	50	1.81	0.001045	± 2.5	PASS
	HCH	VN	-30	2.64	0.001505	± 2.5	PASS
		VN	-20	3.25	0.001853	± 2.5	PASS
		VN	-10	2.9	0.001653	± 2.5	PASS
		VN	0	4.91	0.002799	± 2.5	PASS
		VN	10	-0.48	-0.000274	± 2.5	PASS
		VN	20	4.64	0.002645	± 2.5	PASS
		VN	30	-1.93	-0.001100	± 2.5	PASS
		VN	40	-1.85	-0.001055	± 2.5	PASS
		VN	50	4.49	0.002559	± 2.5	PASS
16QAM	LCH	VN	-30	4.67	0.002730	± 2.5	PASS
		VN	-20	4.61	0.002695	± 2.5	PASS
		VN	-10	-0.13	-0.000076	± 2.5	PASS
		VN	0	1.08	0.000631	± 2.5	PASS
		VN	10	4.82	0.002818	± 2.5	PASS
		VN	20	2.66	0.001555	± 2.5	PASS
		VN	30	0.45	0.000263	± 2.5	PASS
		VN	40	0.79	0.000462	± 2.5	PASS
		VN	50	-0.93	-0.000544	± 2.5	PASS
	MCH	VN	-30	0.02	0.000011	± 2.5	PASS
		VN	-20	4.06	0.002314	± 2.5	PASS
		VN	-10	4.16	0.002371	± 2.5	PASS
		VN	0	3.38	0.001927	± 2.5	PASS
		VN	10	-1.53	-0.000872	± 2.5	PASS
		VN	20	-0.71	-0.000405	± 2.5	PASS
		VN	30	-1.53	-0.000872	± 2.5	PASS
		VN	40	4.67	0.002662	± 2.5	PASS
		VN	50	-0.68	-0.000388	± 2.5	PASS
	HCH	VN	-30	-1.38	-0.000787	± 2.5	PASS
		VN	-20	2.09	0.001191	± 2.5	PASS
		VN	-10	4.24	0.002417	± 2.5	PASS
		VN	0	1.97	0.001123	± 2.5	PASS
		VN	10	0.24	0.000137	± 2.5	PASS
		VN	20	-0.67	-0.000382	± 2.5	PASS

		VN	30	3.69	0.002103	± 2.5	PASS
		VN	40	1.99	0.001134	± 2.5	PASS
		VN	50	4.88	0.002782	± 2.5	PASS

Channel Bandwidth: 3 MHz

Channel Bandwidth: 3 MHz+							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	4.73	0.002764	± 2.5	PASS
		VN	TN	2.45	0.001431	± 2.5	PASS
		VH	TN	4.04	0.002361	± 2.5	PASS
	MCH	VL	TN	-1.92	-0.001108	± 2.5	PASS
		VN	TN	4.51	0.002603	± 2.5	PASS
		VH	TN	4.43	0.002557	± 2.5	PASS
	HCH	VL	TN	3.91	0.002230	± 2.5	PASS
		VN	TN	-0.46	-0.000262	± 2.5	PASS
		VH	TN	-1.62	-0.000924	± 2.5	PASS
16QAM	LCH	VL	TN	4.58	0.002676	± 2.5	PASS
		VN	TN	1.75	0.001022	± 2.5	PASS
		VH	TN	-1.31	-0.000765	± 2.5	PASS
	MCH	VL	TN	4.07	0.002349	± 2.5	PASS
		VN	TN	3.07	0.001772	± 2.5	PASS
		VH	TN	0.24	0.000139	± 2.5	PASS
	HCH	VL	TN	1.25	0.000713	± 2.5	PASS
		VN	TN	0.37	0.000211	± 2.5	PASS
		VH	TN	1	0.000570	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-1.87	-0.001093	± 2.5	PASS
		VN	-20	2.23	0.001303	± 2.5	PASS
		VN	-10	1.74	0.001017	± 2.5	PASS
		VN	0	-1.77	-0.001034	± 2.5	PASS
		VN	10	3.05	0.001782	± 2.5	PASS
		VN	20	-0.25	-0.000146	± 2.5	PASS
		VN	30	0.9	0.000526	± 2.5	PASS
		VN	40	-1.58	-0.000923	± 2.5	PASS
		VN	50	-0.23	-0.000134	± 2.5	PASS
	MCH	VN	-30	-0.78	-0.000450	± 2.5	PASS
		VN	-20	2.84	0.001639	± 2.5	PASS

		VN	-10	-0.56	-0.000323	± 2.5	PASS
		VN	0	4.64	0.002678	± 2.5	PASS
		VN	10	4.44	0.002563	± 2.5	PASS
		VN	20	3.63	0.002095	± 2.5	PASS
		VN	30	3.26	0.001882	± 2.5	PASS
		VN	40	-1.35	-0.000779	± 2.5	PASS
		VN	50	2.32	0.001339	± 2.5	PASS
	HCH	VN	-30	3.75	0.002139	± 2.5	PASS
		VN	-20	0.95	0.000542	± 2.5	PASS
		VN	-10	1.27	0.000724	± 2.5	PASS
		VN	0	2.68	0.001528	± 2.5	PASS
		VN	10	2.3	0.001312	± 2.5	PASS
		VN	20	-1.54	-0.000878	± 2.5	PASS
		VN	30	1.48	0.000844	± 2.5	PASS
		VN	40	-1.8	-0.001027	± 2.5	PASS
		VN	50	2.56	0.001460	± 2.5	PASS
QPSK	LCH	VN	-30	2.62	0.001512	± 2.5	PASS
		VN	-20	2.97	0.001714	± 2.5	PASS
		VN	-10	0.31	0.000179	± 2.5	PASS
		VN	0	2.39	0.001380	± 2.5	PASS
		VN	10	4.09	0.002361	± 2.5	PASS
		VN	20	-0.62	-0.000358	± 2.5	PASS
		VN	30	2.62	0.001512	± 2.5	PASS
		VN	40	1.05	0.000606	± 2.5	PASS
		VN	50	-1.54	-0.000889	± 2.5	PASS
	MCH	VN	-30	0.56	0.000319	± 2.5	PASS
		VN	-20	2.88	0.001642	± 2.5	PASS
		VN	-10	0.24	0.000137	± 2.5	PASS
		VN	0	3.09	0.001762	± 2.5	PASS
		VN	10	4.71	0.002686	± 2.5	PASS
		VN	20	2.1	0.001198	± 2.5	PASS
		VN	30	4.9	0.002794	± 2.5	PASS
		VN	40	1.35	0.000770	± 2.5	PASS
		VN	50	0.64	0.000365	± 2.5	PASS
	HCH	VN	-30	-1.52	-0.000867	± 2.5	PASS
		VN	-20	2.52	0.001437	± 2.5	PASS
		VN	-10	3.42	0.001950	± 2.5	PASS
		VN	0	0.6	0.000342	± 2.5	PASS
		VN	10	4.51	0.002572	± 2.5	PASS
		VN	20	1.61	0.000918	± 2.5	PASS
		VN	30	3.97	0.002264	± 2.5	PASS

		VN	40	2.36	0.001346	± 2.5	PASS
		VN	50	4.42	0.002521	± 2.5	PASS

Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	-1.49	-0.000870	± 2.5	PASS
		VN	TN	-1.22	-0.000712	± 2.5	PASS
		VH	TN	2.18	0.001273	± 2.5	PASS
	MCH	VL	TN	-0.26	-0.000150	± 2.5	PASS
		VN	TN	2.95	0.001703	± 2.5	PASS
		VH	TN	2.15	0.001241	± 2.5	PASS
	HCH	VL	TN	4.98	0.002842	± 2.5	PASS
		VN	TN	0.29	0.000165	± 2.5	PASS
		VH	TN	-0.26	-0.000148	± 2.5	PASS
16QAM	LCH	VL	TN	0.66	0.000385	± 2.5	PASS
		VN	TN	0.97	0.000566	± 2.5	PASS
		VH	TN	-1.9	-0.001109	± 2.5	PASS
	MCH	VL	TN	2.21	0.001276	± 2.5	PASS
		VN	TN	4.17	0.002407	± 2.5	PASS
		VH	TN	-0.08	-0.000046	± 2.5	PASS
	HCH	VL	TN	1.95	0.001113	± 2.5	PASS
		VN	TN	3.57	0.002037	± 2.5	PASS
		VH	TN	3.44	0.001963	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	3	0.001752	± 2.5	PASS
		VN	-20	4.01	0.002342	± 2.5	PASS
		VN	-10	2.22	0.001296	± 2.5	PASS
		VN	0	-0.85	-0.000496	± 2.5	PASS
		VN	10	-1.04	-0.000607	± 2.5	PASS
		VN	20	-1.29	-0.000753	± 2.5	PASS
		VN	30	0.54	0.000315	± 2.5	PASS
		VN	40	3.93	0.002295	± 2.5	PASS
		VN	50	2.7	0.001577	± 2.5	PASS
	MCH	VN	-30	-1.6	-0.000924	± 2.5	PASS
		VN	-20	0.09	0.000052	± 2.5	PASS
		VN	-10	-0.44	-0.000254	± 2.5	PASS

		VN	0	-1.41	-0.000814	± 2.5	PASS
		VN	10	4.72	0.002724	± 2.5	PASS
		VN	20	-0.76	-0.000439	± 2.5	PASS
		VN	30	4.63	0.002672	± 2.5	PASS
		VN	40	-1.18	-0.000681	± 2.5	PASS
		VN	50	2.79	0.001610	± 2.5	PASS
	HCH	VN	-30	3.2	0.001826	± 2.5	PASS
		VN	-20	0.88	0.000461	± 2.5	PASS
		VN	-10	0.47	0.000246	± 2.5	PASS
		VN	0	1.93	0.001012	± 2.5	PASS
		VN	10	0.61	0.000320	± 2.5	PASS
		VN	20	4.43	0.002322	± 2.5	PASS
		VN	30	-1.02	-0.000535	± 2.5	PASS
		VN	40	-1.34	-0.000702	± 2.5	PASS
		VN	50	4.97	0.002606	± 2.5	PASS
16QAM	LCH	VN	-30	2.47	0.001426	± 2.5	PASS
		VN	-20	0.51	0.000294	± 2.5	PASS
		VN	-10	-1.43	-0.000825	± 2.5	PASS
		VN	0	0.61	0.000352	± 2.5	PASS
		VN	10	-0.5	-0.000289	± 2.5	PASS
		VN	20	3.03	0.001749	± 2.5	PASS
		VN	30	3.26	0.001882	± 2.5	PASS
		VN	40	-0.87	-0.000502	± 2.5	PASS
		VN	50	-1.97	-0.001137	± 2.5	PASS
	MCH	VN	-30	-1.69	-0.000964	± 2.5	PASS
		VN	-20	1.74	0.000993	± 2.5	PASS
		VN	-10	-0.23	-0.000131	± 2.5	PASS
		VN	0	-1.34	-0.000765	± 2.5	PASS
		VN	10	3.88	0.002214	± 2.5	PASS
		VN	20	4.55	0.002596	± 2.5	PASS
		VN	30	-0.53	-0.000302	± 2.5	PASS
		VN	40	3.14	0.001792	± 2.5	PASS
		VN	50	4.17	0.002379	± 2.5	PASS
	HCH	VN	-30	3.46	0.001814	± 2.5	PASS
		VN	-20	1.61	0.000844	± 2.5	PASS
		VN	-10	-1.91	-0.001001	± 2.5	PASS
		VN	0	-1.72	-0.000902	± 2.5	PASS
		VN	10	0.79	0.000414	± 2.5	PASS
		VN	20	1.01	0.000529	± 2.5	PASS
		VN	30	-1.52	-0.000797	± 2.5	PASS
		VN	40	4.56	0.002391	± 2.5	PASS

		VN	50	-0.54	-0.000283	± 2.5	PASS

Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	1.44	0.000840	± 2.5	PASS
		VN	TN	0.22	0.000128	± 2.5	PASS
		VH	TN	-0.72	-0.000420	± 2.5	PASS
	MCH	VL	TN	3.48	0.002009	± 2.5	PASS
		VN	TN	0.74	0.000427	± 2.5	PASS
		VH	TN	0.79	0.000456	± 2.5	PASS
	HCH	VL	TN	2.05	0.001171	± 2.5	PASS
		VN	TN	-1.33	-0.000760	± 2.5	PASS
		VH	TN	0.05	0.000029	± 2.5	PASS
16QAM	LCH	VL	TN	-0.57	-0.000332	± 2.5	PASS
		VN	TN	-1.14	-0.000665	± 2.5	PASS
		VH	TN	4.52	0.002636	± 2.5	PASS
	MCH	VL	TN	-0.61	-0.000352	± 2.5	PASS
		VN	TN	-0.09	-0.000052	± 2.5	PASS
		VH	TN	4.54	0.002620	± 2.5	PASS
	HCH	VL	TN	0.18	0.000103	± 2.5	PASS
		VN	TN	2.74	0.001566	± 2.5	PASS
		VH	TN	-0.85	-0.000486	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
16QAM	LCH	VN	-30	-1.65	-0.000962	± 2.5	PASS
		VN	-20	3.39	0.001977	± 2.5	PASS
		VN	-10	-0.44	-0.000257	± 2.5	PASS
		VN	0	-1.51	-0.000880	± 2.5	PASS
		VN	10	-1.04	-0.000606	± 2.5	PASS
		VN	20	1.22	0.000711	± 2.5	PASS
		VN	30	-1	-0.000583	± 2.5	PASS
		VN	40	1.43	0.000834	± 2.5	PASS
		VN	50	4.91	0.002863	± 2.5	PASS
	MCH	VN	-30	2.09	0.001206	± 2.5	PASS
		VN	-20	0.29	0.000167	± 2.5	PASS
		VN	-10	-1.98	-0.001143	± 2.5	PASS
		VN	0	3.59	0.002072	± 2.5	PASS

		VN	10	4.93	0.002846	± 2.5	PASS
		VN	20	1.93	0.001114	± 2.5	PASS
		VN	30	2.24	0.001293	± 2.5	PASS
		VN	40	4.93	0.002846	± 2.5	PASS
		VN	50	4.57	0.002638	± 2.5	PASS
	HCH	VN	-30	4.34	0.002480	± 2.5	PASS
		VN	-20	0.22	0.000126	± 2.5	PASS
		VN	-10	2	0.001143	± 2.5	PASS
		VN	0	-1.98	-0.001131	± 2.5	PASS
		VN	10	4.1	0.002343	± 2.5	PASS
		VN	20	0.66	0.000377	± 2.5	PASS
		VN	30	3.06	0.001749	± 2.5	PASS
		VN	40	-1.09	-0.000623	± 2.5	PASS
		VN	50	-0.03	-0.000017	± 2.5	PASS
QPSK	LCH	VN	-30	1.39	0.000802	± 2.5	PASS
		VN	-20	4.53	0.002615	± 2.5	PASS
		VN	-10	2.36	0.001362	± 2.5	PASS
		VN	0	-1.18	-0.000681	± 2.5	PASS
		VN	10	-1.45	-0.000837	± 2.5	PASS
		VN	20	4.99	0.002880	± 2.5	PASS
		VN	30	2.15	0.001241	± 2.5	PASS
		VN	40	4.21	0.002430	± 2.5	PASS
		VN	50	-0.96	-0.000554	± 2.5	PASS
	MCH	VN	-30	1.9	0.001086	± 2.5	PASS
		VN	-20	-1.76	-0.001006	± 2.5	PASS
		VN	-10	1.01	0.000577	± 2.5	PASS
		VN	0	-1.17	-0.000669	± 2.5	PASS
		VN	10	-0.8	-0.000457	± 2.5	PASS
		VN	20	2.85	0.001629	± 2.5	PASS
		VN	30	-1.17	-0.000669	± 2.5	PASS
		VN	40	0.3	0.000171	± 2.5	PASS
		VN	50	1.3	0.000743	± 2.5	PASS
	HCH	VN	-30	2.25	0.001286	± 2.5	PASS
		VN	-20	4.92	0.002811	± 2.5	PASS
		VN	-10	-1.85	-0.001057	± 2.5	PASS
		VN	0	1.41	0.000806	± 2.5	PASS
		VN	10	3.3	0.001886	± 2.5	PASS
		VN	20	4.96	0.002834	± 2.5	PASS
		VN	30	3.31	0.001891	± 2.5	PASS
		VN	40	3.94	0.002251	± 2.5	PASS
		VN	50	0.28	0.000160	± 2.5	PASS

Channel Bandwidth: 15 MHz

Channel Bandwidth: 15 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	1.12	0.000652	± 2.5	PASS
		VN	TN	1.46	0.000850	± 2.5	PASS
		VH	TN	0.34	0.000198	± 2.5	PASS
	MCH	VL	TN	-1.46	-0.000843	± 2.5	PASS
		VN	TN	-1.83	-0.001056	± 2.5	PASS
		VH	TN	0.51	0.000294	± 2.5	PASS
	HCH	VL	TN	0.07	0.000040	± 2.5	PASS
		VN	TN	3.41	0.001951	± 2.5	PASS
		VH	TN	0.9	0.000515	± 2.5	PASS
16QAM	LCH	VL	TN	-0.79	-0.000460	± 2.5	PASS
		VN	TN	-0.51	-0.000297	± 2.5	PASS
		VH	TN	2.44	0.001421	± 2.5	PASS
	MCH	VL	TN	4.74	0.002736	± 2.5	PASS
		VN	TN	3.88	0.002240	± 2.5	PASS
		VH	TN	4.47	0.002580	± 2.5	PASS
	HCH	VL	TN	-0.76	-0.000435	± 2.5	PASS
		VN	TN	-0.41	-0.000235	± 2.5	PASS
		VH	TN	3.59	0.002054	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-1.3	-0.000757	± 2.5	PASS
		VN	-20	-0.35	-0.000204	± 2.5	PASS
		VN	-10	2.09	0.001217	± 2.5	PASS
		VN	0	2.23	0.001298	± 2.5	PASS
		VN	10	0.77	0.000448	± 2.5	PASS
		VN	20	4.18	0.002434	± 2.5	PASS
		VN	30	3.48	0.002026	± 2.5	PASS
		VN	40	-0.06	-0.000035	± 2.5	PASS
		VN	50	2.29	0.001333	± 2.5	PASS
	MCH	VN	-30	0.51	0.000294	± 2.5	PASS
		VN	-20	-1.42	-0.000820	± 2.5	PASS
		VN	-10	1.13	0.000652	± 2.5	PASS
		VN	0	1.94	0.001120	± 2.5	PASS
		VN	10	4.47	0.002580	± 2.5	PASS

		VN	20	1.24	0.000716	± 2.5	PASS
		VN	30	-0.12	-0.000069	± 2.5	PASS
		VN	40	2.12	0.001224	± 2.5	PASS
		VN	50	3.27	0.001887	± 2.5	PASS
	HCH	VN	-30	0.39	0.000223	± 2.5	PASS
		VN	-20	2.8	0.001602	± 2.5	PASS
		VN	-10	0.3	0.000172	± 2.5	PASS
		VN	0	-1.87	-0.001070	± 2.5	PASS
		VN	10	-0.3	-0.000172	± 2.5	PASS
		VN	20	1.92	0.001099	± 2.5	PASS
		VN	30	4.72	0.002701	± 2.5	PASS
		VN	40	3.5	0.002003	± 2.5	PASS
		VN	50	-1.1	-0.000629	± 2.5	PASS
QPSK	LCH	VN	-30	0.3	0.000173	± 2.5	PASS
		VN	-20	4.69	0.002707	± 2.5	PASS
		VN	-10	-0.3	-0.000173	± 2.5	PASS
		VN	0	-2	-0.001154	± 2.5	PASS
		VN	10	-1.6	-0.000924	± 2.5	PASS
		VN	20	0.35	0.000202	± 2.5	PASS
		VN	30	4.28	0.002470	± 2.5	PASS
		VN	40	1.35	0.000779	± 2.5	PASS
		VN	50	-0.81	-0.000468	± 2.5	PASS
	MCH	VN	-30	1.74	0.000996	± 2.5	PASS
		VN	-20	4.73	0.002707	± 2.5	PASS
		VN	-10	-1.59	-0.000910	± 2.5	PASS
		VN	0	-0.09	-0.000052	± 2.5	PASS
		VN	10	2.41	0.001379	± 2.5	PASS
		VN	20	-0.7	-0.000401	± 2.5	PASS
		VN	30	2.68	0.001534	± 2.5	PASS
		VN	40	4.46	0.002552	± 2.5	PASS
		VN	50	3.61	0.002066	± 2.5	PASS
	HCH	VN	-30	3.42	0.001957	± 2.5	PASS
		VN	-20	1.68	0.000961	± 2.5	PASS
		VN	-10	4.55	0.002604	± 2.5	PASS
		VN	0	4.77	0.002730	± 2.5	PASS
		VN	10	3.13	0.001791	± 2.5	PASS
		VN	20	1.12	0.000641	± 2.5	PASS
		VN	30	-1.23	-0.000704	± 2.5	PASS
		VN	40	-1.01	-0.000578	± 2.5	PASS
		VN	50	4.94	0.002827	± 2.5	PASS

Channel Bandwidth: 20 MHz

Channel Bandwidth: 20 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	0.88	0.000512	± 2.5	PASS
		VN	TN	2.69	0.001564	± 2.5	PASS
		VH	TN	0.13	0.000076	± 2.5	PASS
	MCH	VL	TN	1.48	0.000854	± 2.5	PASS
		VN	TN	0.65	0.000375	± 2.5	PASS
		VH	TN	-0.02	-0.000012	± 2.5	PASS
	HCH	VL	TN	2.38	0.001364	± 2.5	PASS
		VN	TN	-0.33	-0.000189	± 2.5	PASS
		VH	TN	4.25	0.002436	± 2.5	PASS
16QAM	LCH	VL	TN	4.7	0.002733	± 2.5	PASS
		VN	TN	2.37	0.001378	± 2.5	PASS
		VH	TN	-1.55	-0.000901	± 2.5	PASS
	MCH	VL	TN	1.12	0.000646	± 2.5	PASS
		VN	TN	3.67	0.002118	± 2.5	PASS
		VH	TN	1.23	0.000710	± 2.5	PASS
	HCH	VL	TN	3.77	0.002160	± 2.5	PASS
		VN	TN	1.37	0.000785	± 2.5	PASS
		VH	TN	-1.11	-0.000636	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	2.56	0.001488	± 2.5	PASS
		VN	-20	-1.08	-0.000628	± 2.5	PASS
		VN	-10	3.77	0.002192	± 2.5	PASS
		VN	0	-1.25	-0.000727	± 2.5	PASS
		VN	10	1.29	0.000750	± 2.5	PASS
		VN	20	4.8	0.002791	± 2.5	PASS
		VN	30	2.79	0.001622	± 2.5	PASS
		VN	40	4.58	0.002663	± 2.5	PASS
		VN	50	0.01	0.000006	± 2.5	PASS
	MCH	VN	-30	3.23	0.001864	± 2.5	PASS
		VN	-20	1.72	0.000993	± 2.5	PASS
		VN	-10	-1.91	-0.001102	± 2.5	PASS
		VN	0	-1.19	-0.000687	± 2.5	PASS
		VN	10	-0.05	-0.000029	± 2.5	PASS
		VN	20	3.99	0.002303	± 2.5	PASS

		VN	30	0.27	0.000156	± 2.5	PASS
		VN	40	0.97	0.000560	± 2.5	PASS
		VN	50	3.79	0.002188	± 2.5	PASS
	HCH	VN	-30	3.85	0.002206	± 2.5	PASS
		VN	-20	3.42	0.001960	± 2.5	PASS
		VN	-10	3.1	0.001777	± 2.5	PASS
		VN	0	0.74	0.000424	± 2.5	PASS
		VN	10	1.24	0.000711	± 2.5	PASS
		VN	20	1.85	0.001060	± 2.5	PASS
		VN	30	1.93	0.001106	± 2.5	PASS
		VN	40	0.34	0.000195	± 2.5	PASS
		VN	50	2.7	0.001547	± 2.5	PASS
QPSK	LCH	VN	-30	0.02	0.000012	± 2.5	PASS
		VN	-20	3.42	0.001974	± 2.5	PASS
		VN	-10	2.24	0.001293	± 2.5	PASS
		VN	0	-0.43	-0.000248	± 2.5	PASS
		VN	10	3.77	0.002176	± 2.5	PASS
		VN	20	0.69	0.000398	± 2.5	PASS
		VN	30	1.7	0.000981	± 2.5	PASS
		VN	40	0.73	0.000421	± 2.5	PASS
		VN	50	1.62	0.000935	± 2.5	PASS
	MCH	VN	-30	4.8	0.002751	± 2.5	PASS
		VN	-20	3.52	0.002017	± 2.5	PASS
		VN	-10	2	0.001146	± 2.5	PASS
		VN	0	3.1	0.001777	± 2.5	PASS
		VN	10	3.54	0.002029	± 2.5	PASS
		VN	20	-0.36	-0.000206	± 2.5	PASS
		VN	30	-1.57	-0.000900	± 2.5	PASS
		VN	40	-0.14	-0.000080	± 2.5	PASS
		VN	50	-0.44	-0.000252	± 2.5	PASS
	HCH	VN	-30	0.28	0.000160	± 2.5	PASS
		VN	-20	4.26	0.002441	± 2.5	PASS
		VN	-10	2.99	0.001713	± 2.5	PASS
		VN	0	4.05	0.002321	± 2.5	PASS
		VN	10	3.83	0.002195	± 2.5	PASS
		VN	20	-1.15	-0.000659	± 2.5	PASS
		VN	30	-1.06	-0.000607	± 2.5	PASS
		VN	40	4.53	0.002596	± 2.5	PASS
		VN	50	-0.92	-0.000527	± 2.5	PASS