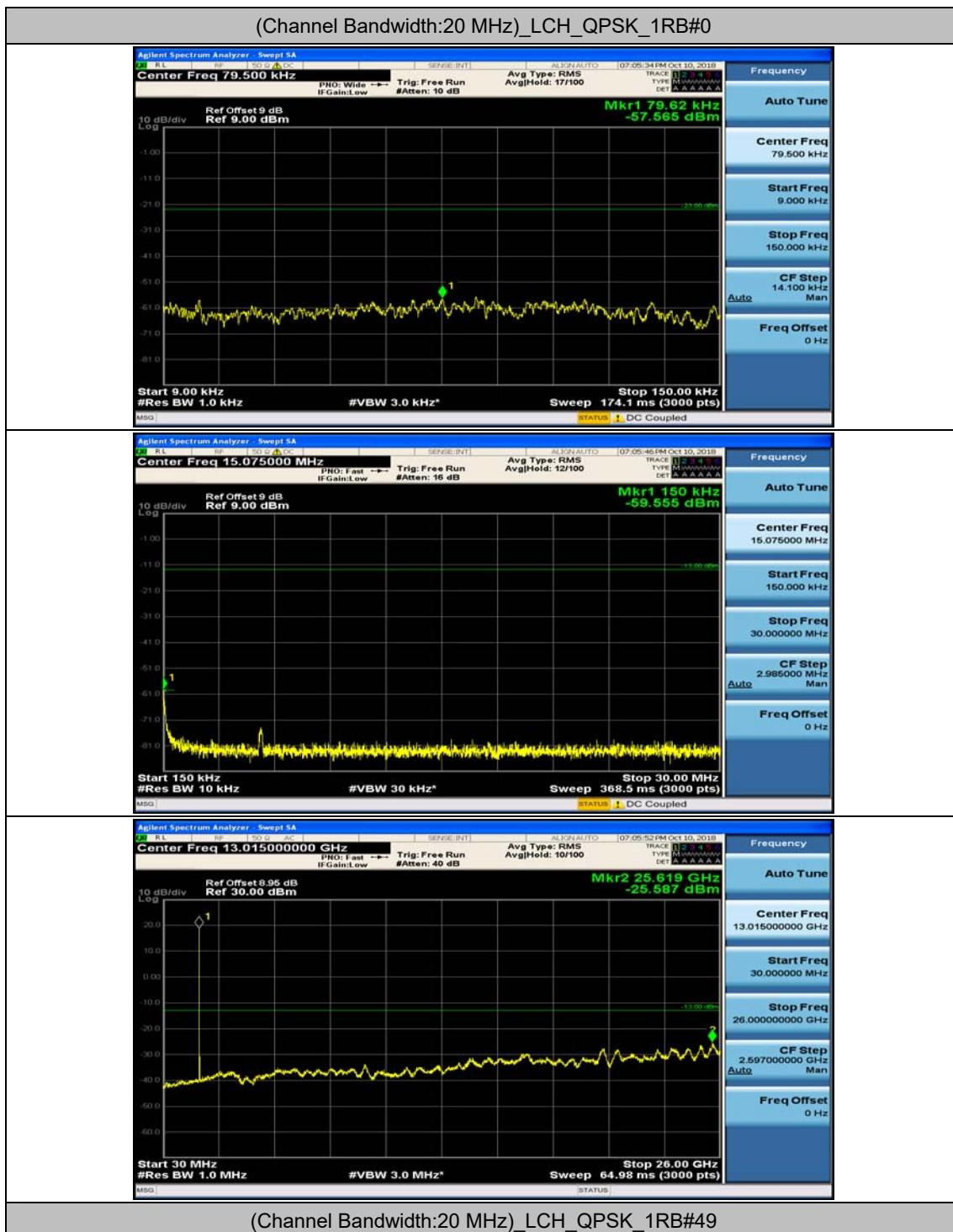
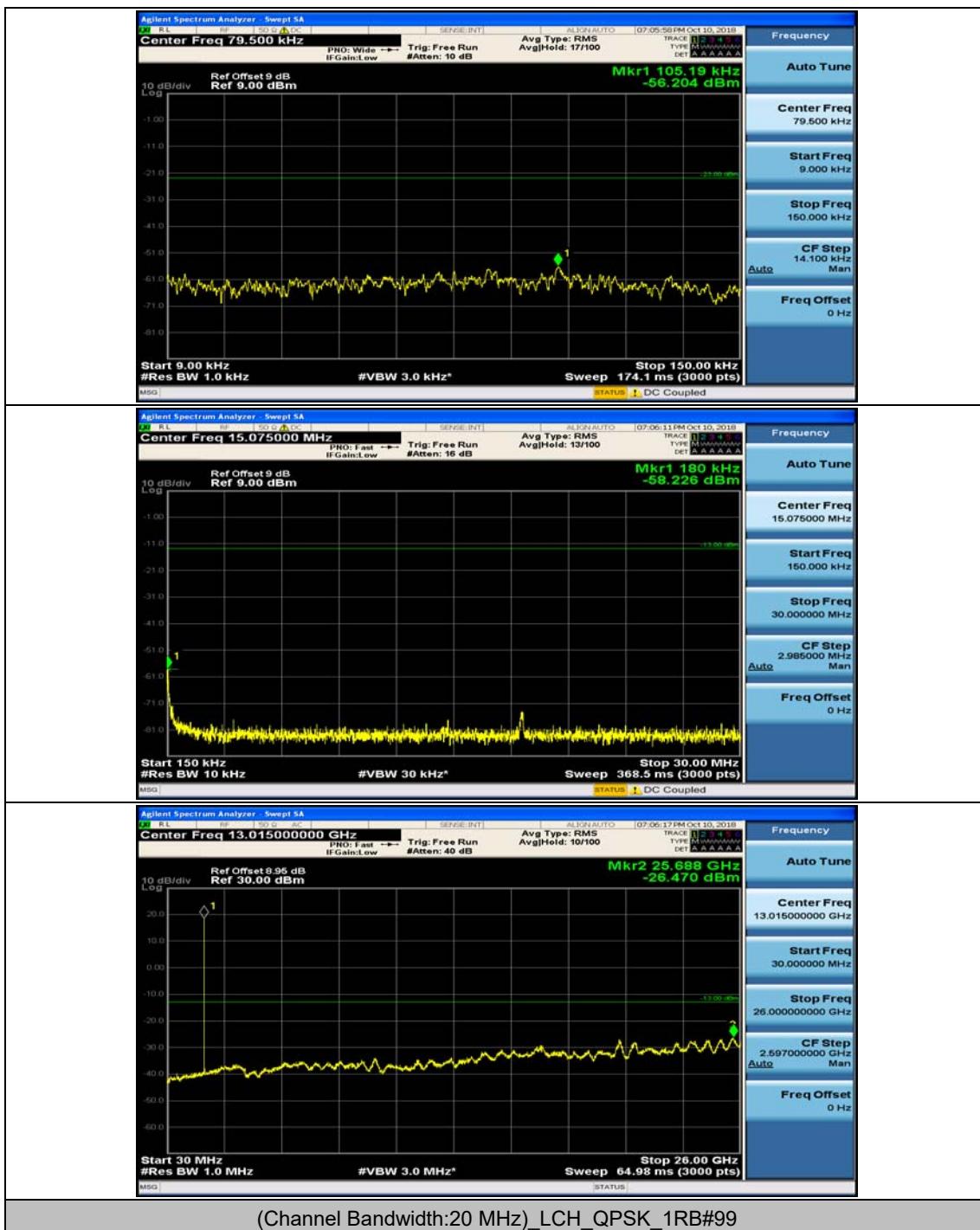
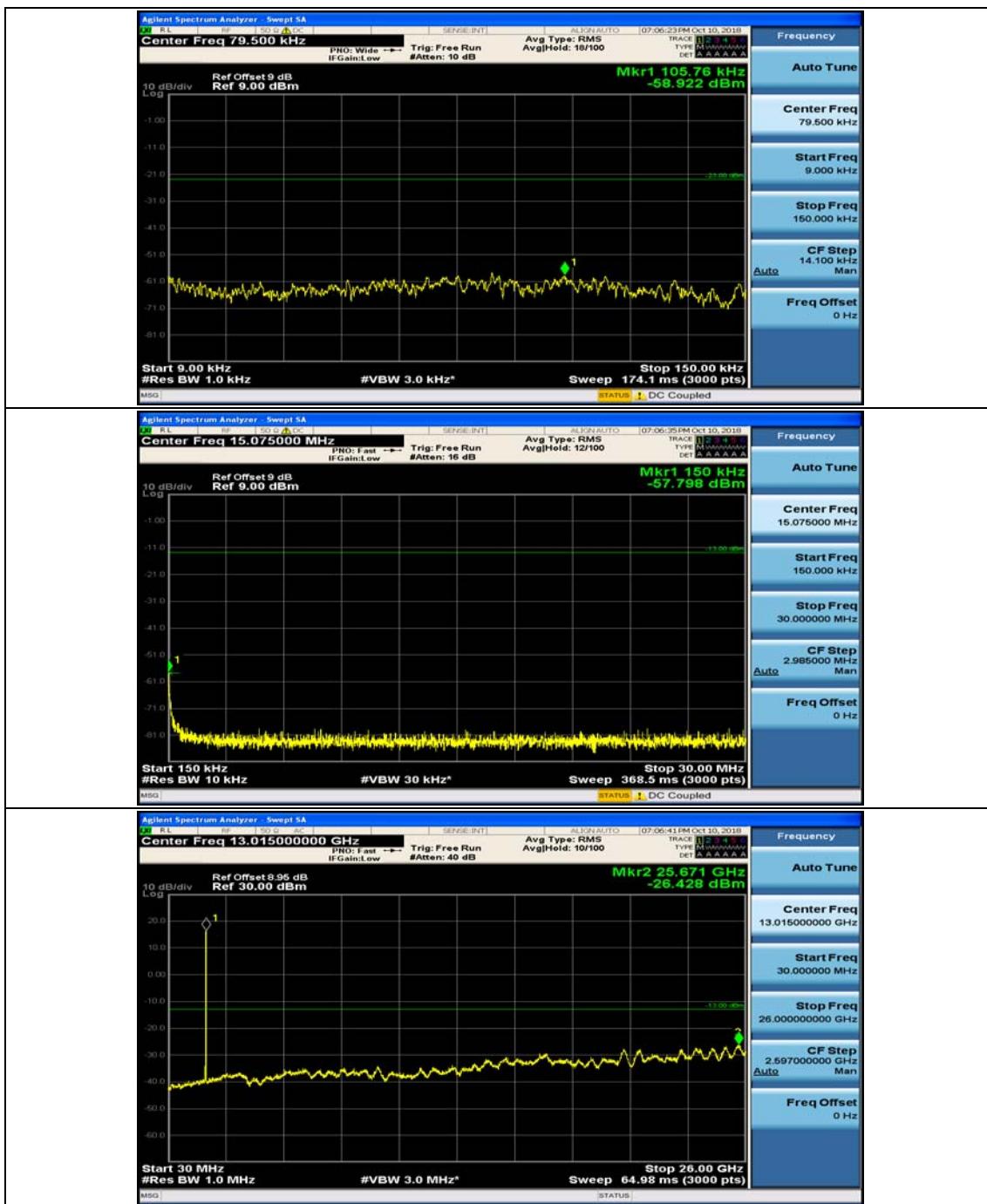
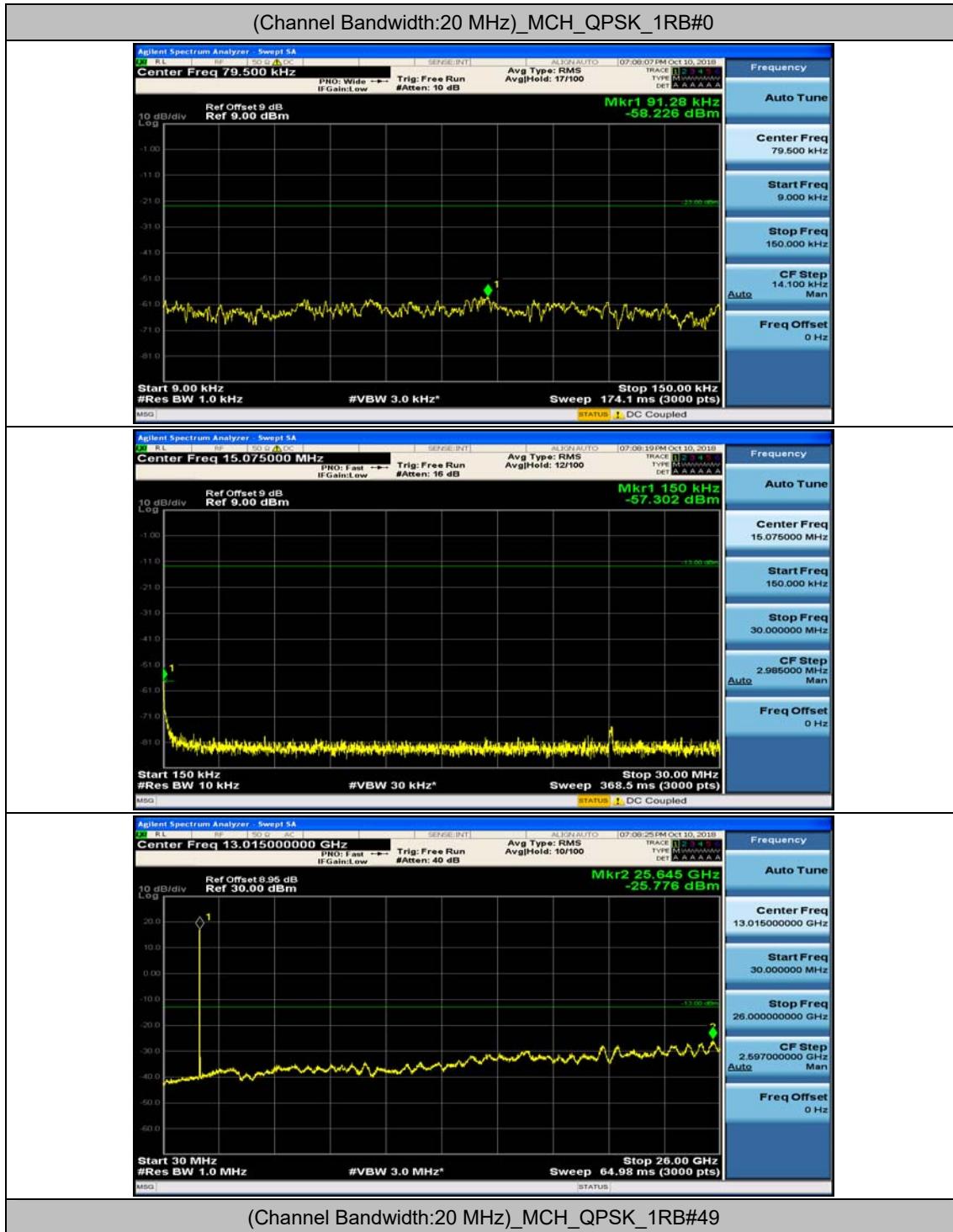


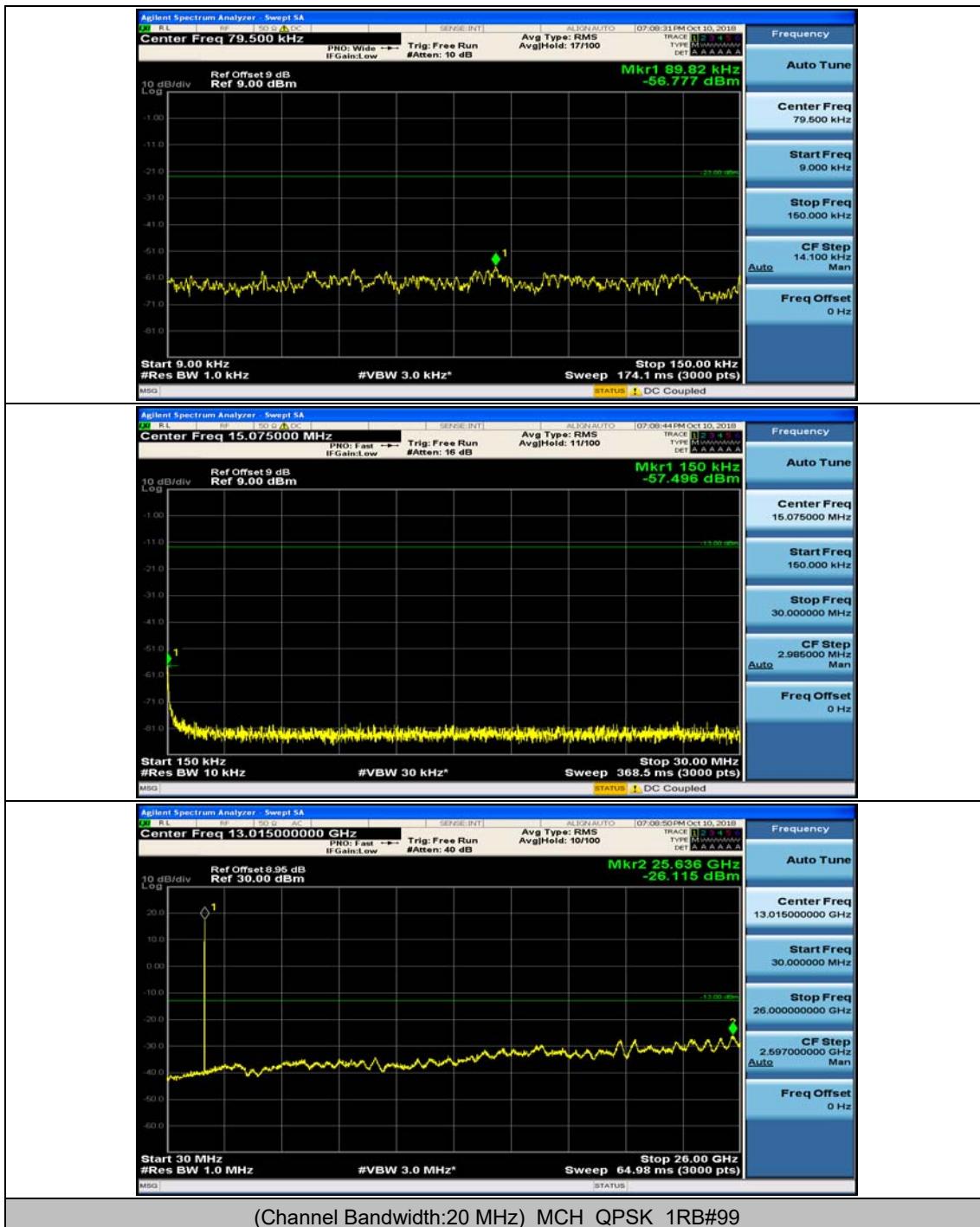
## Channel Bandwidth: 20 MHz

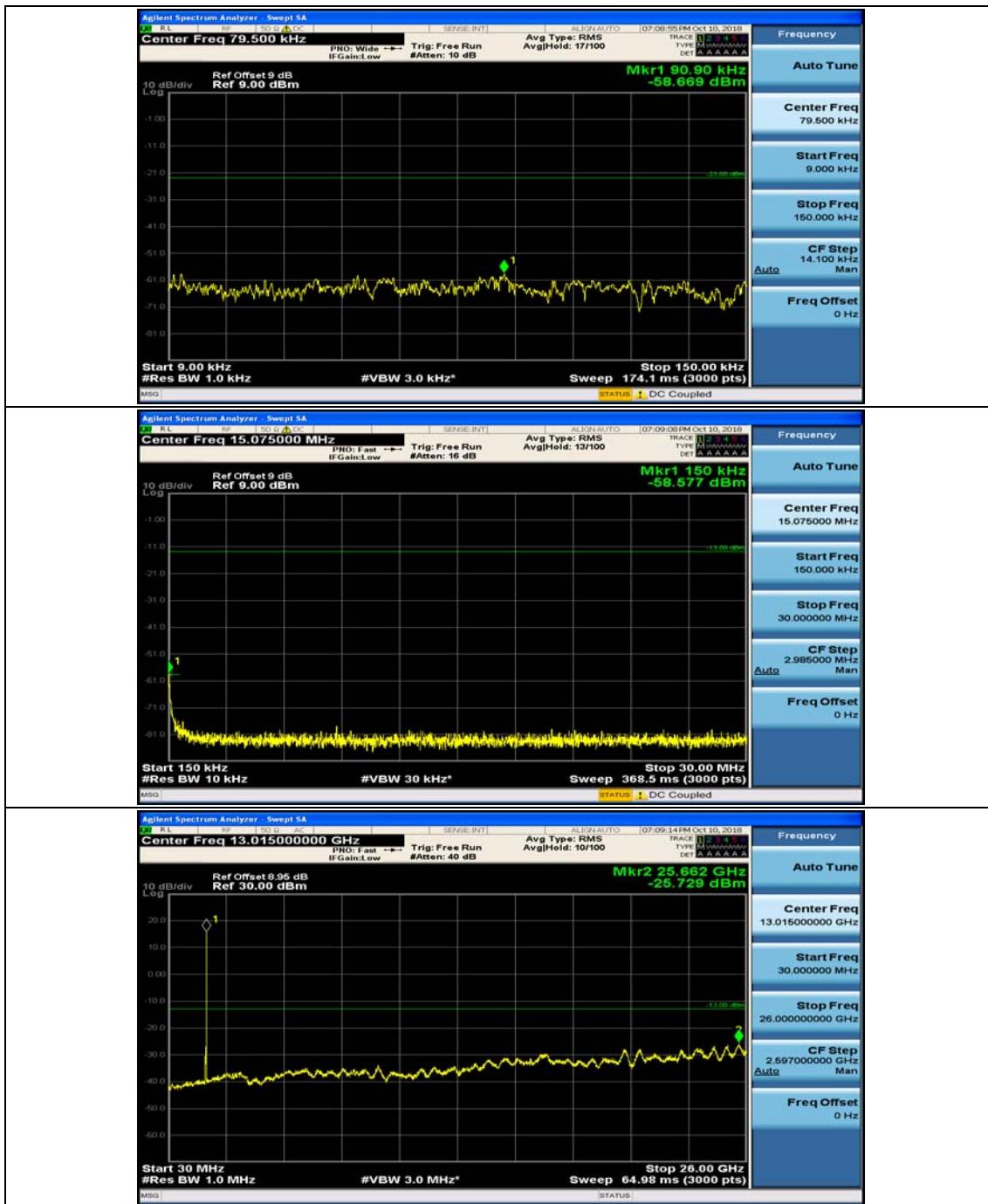


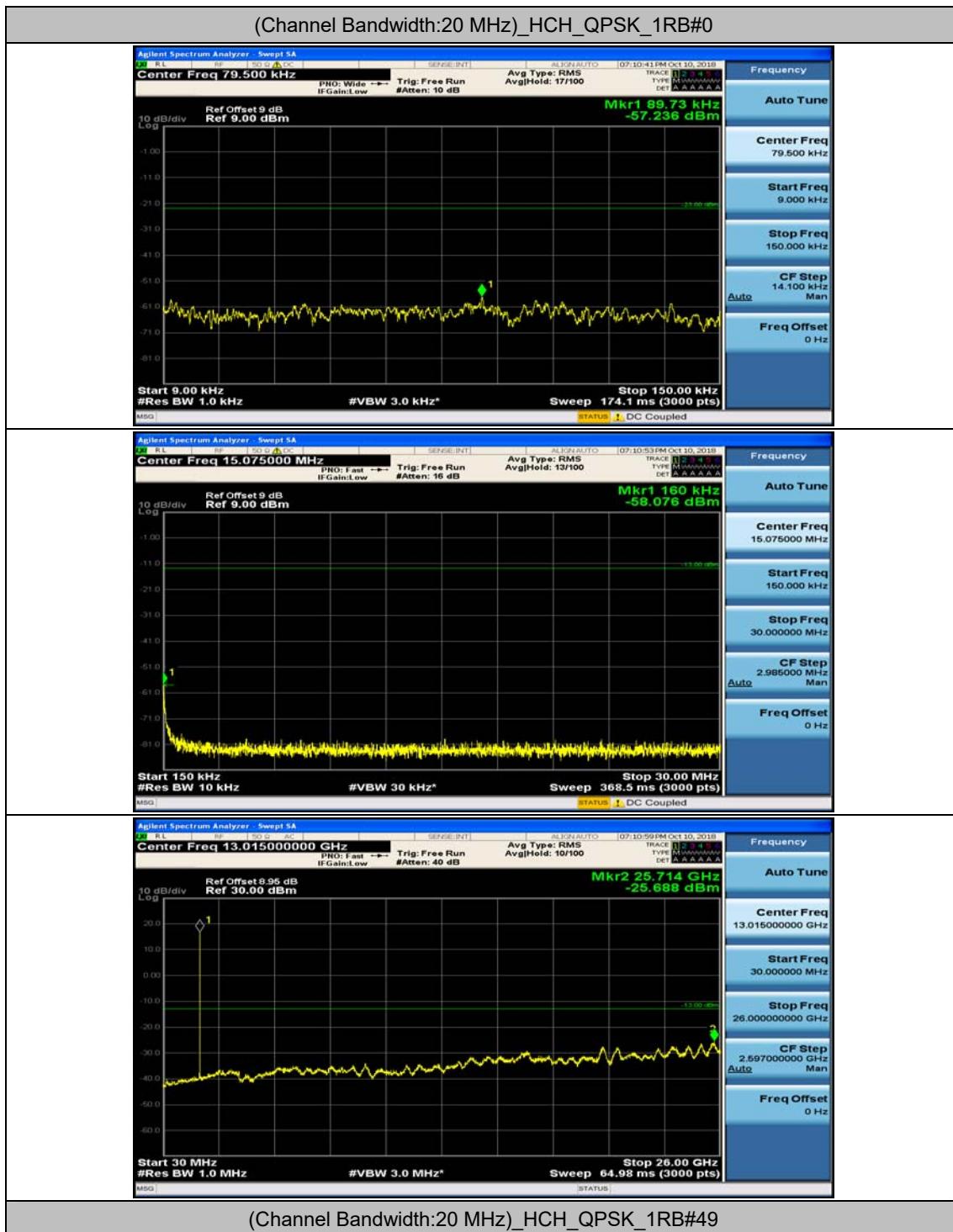


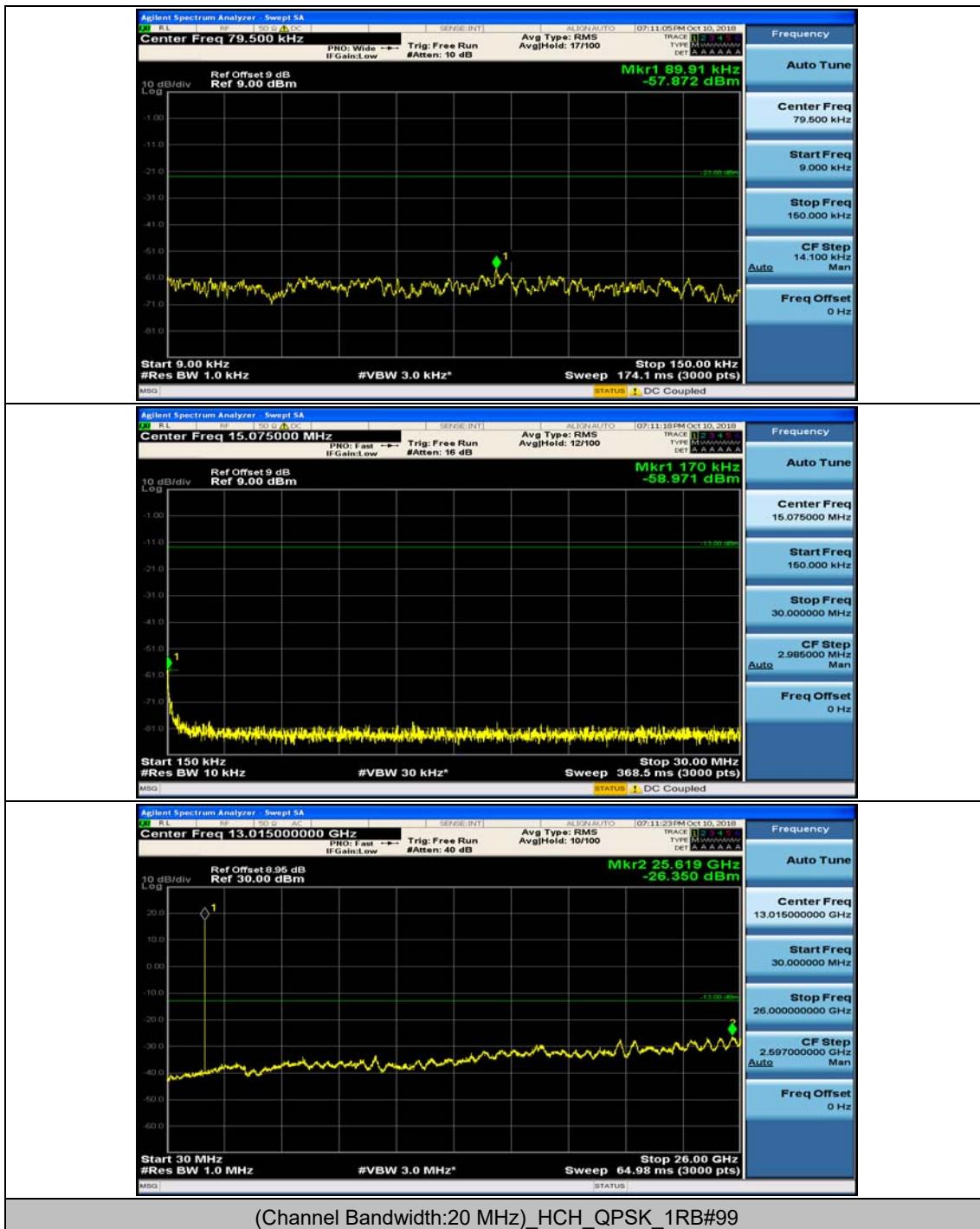


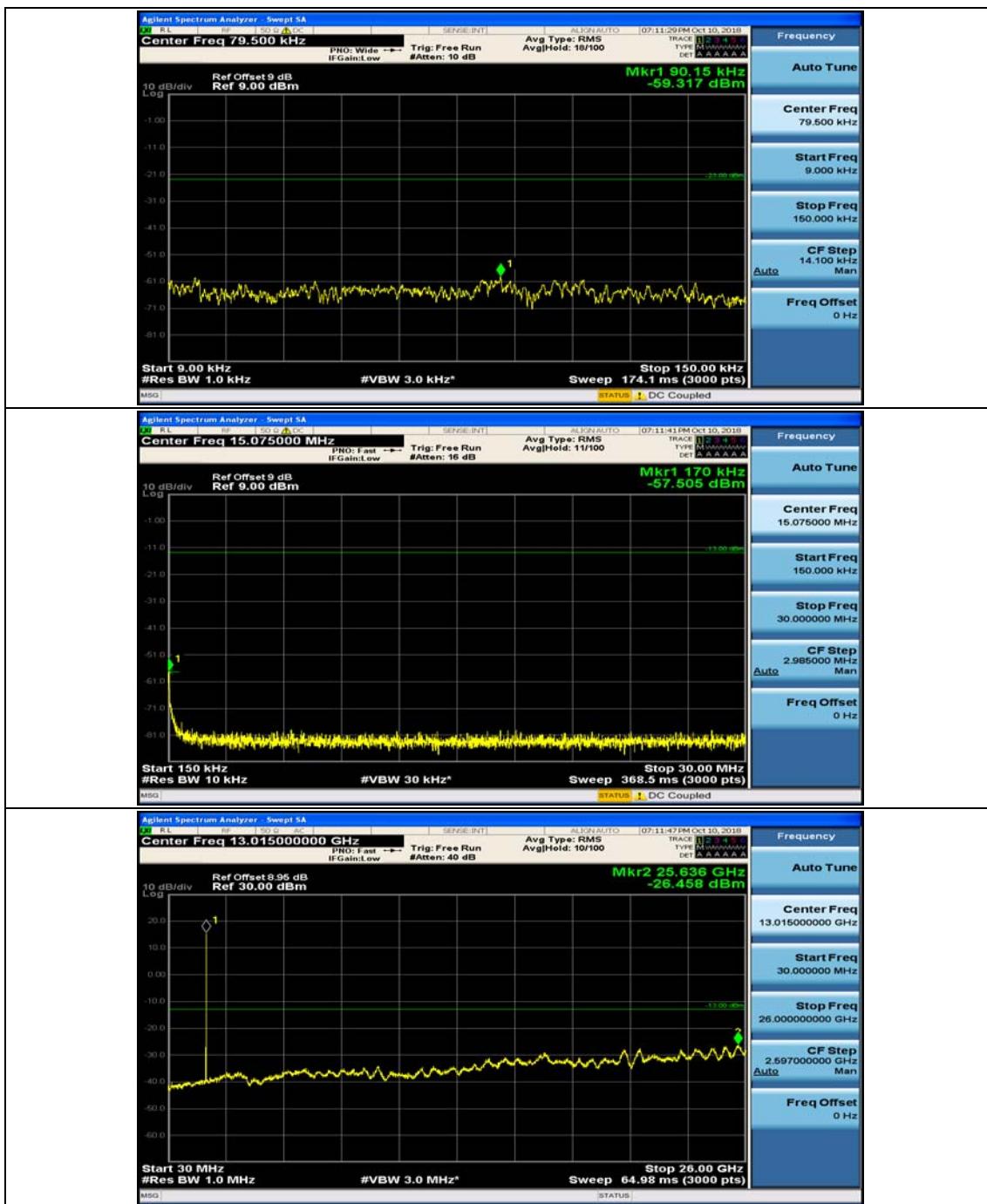


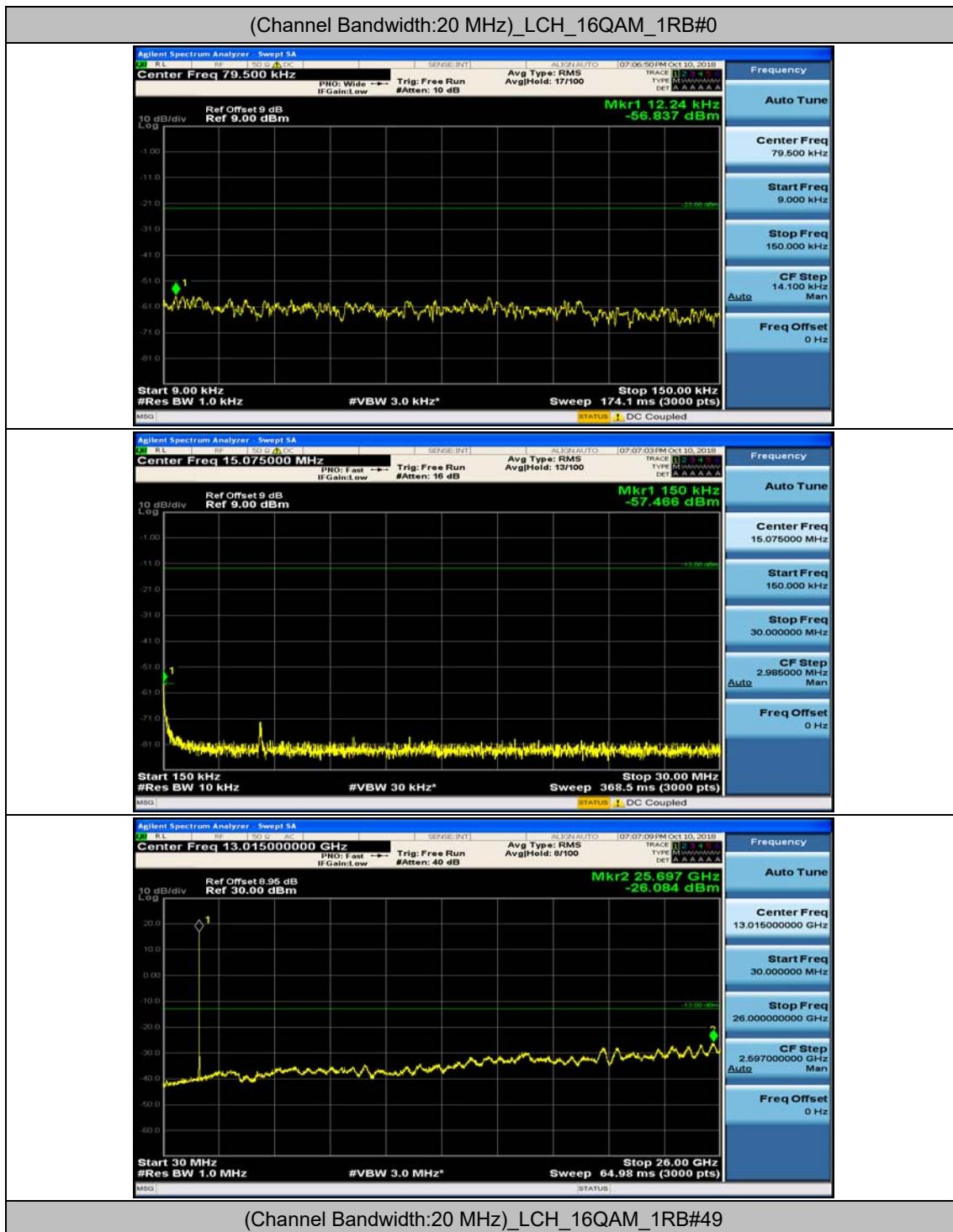


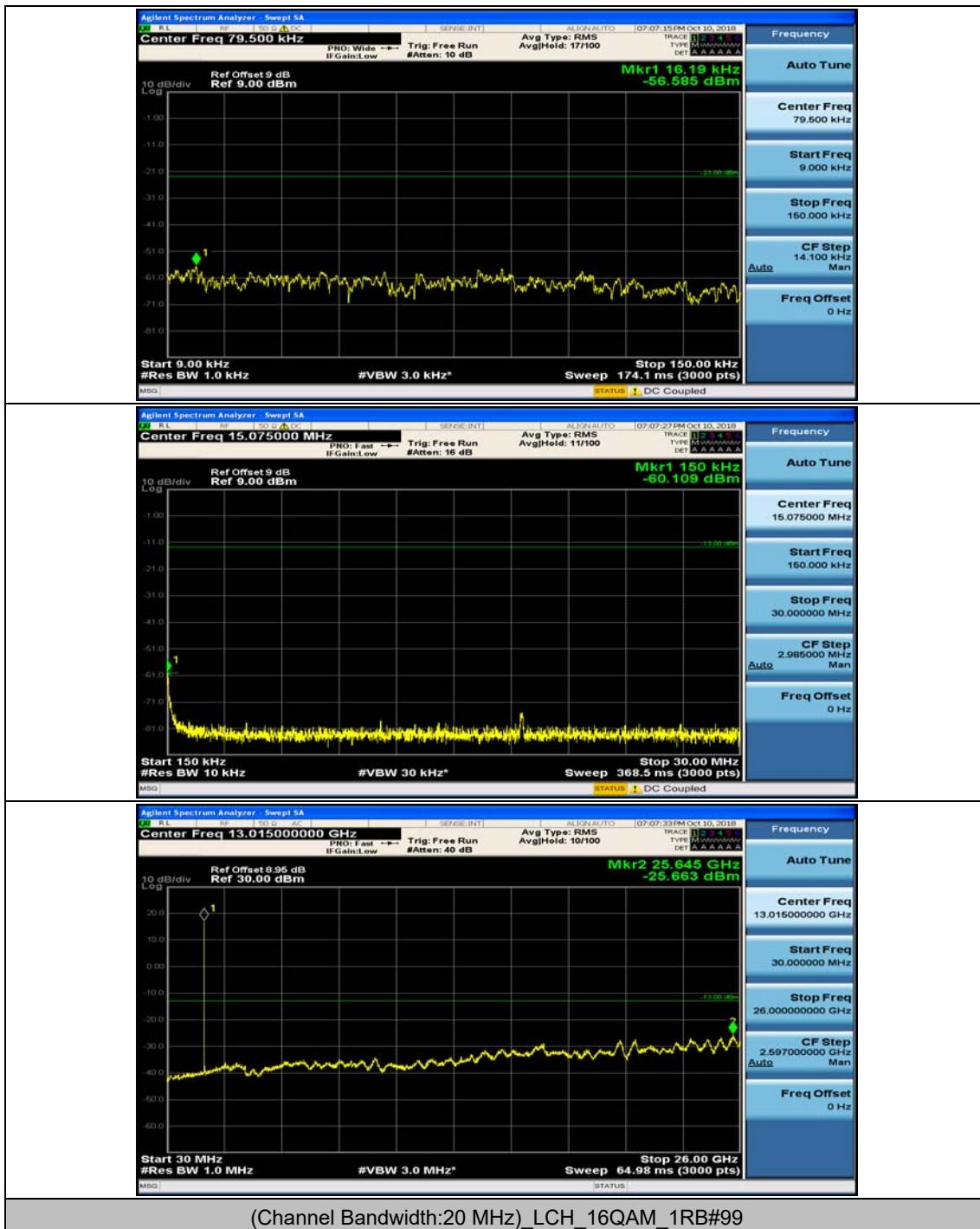


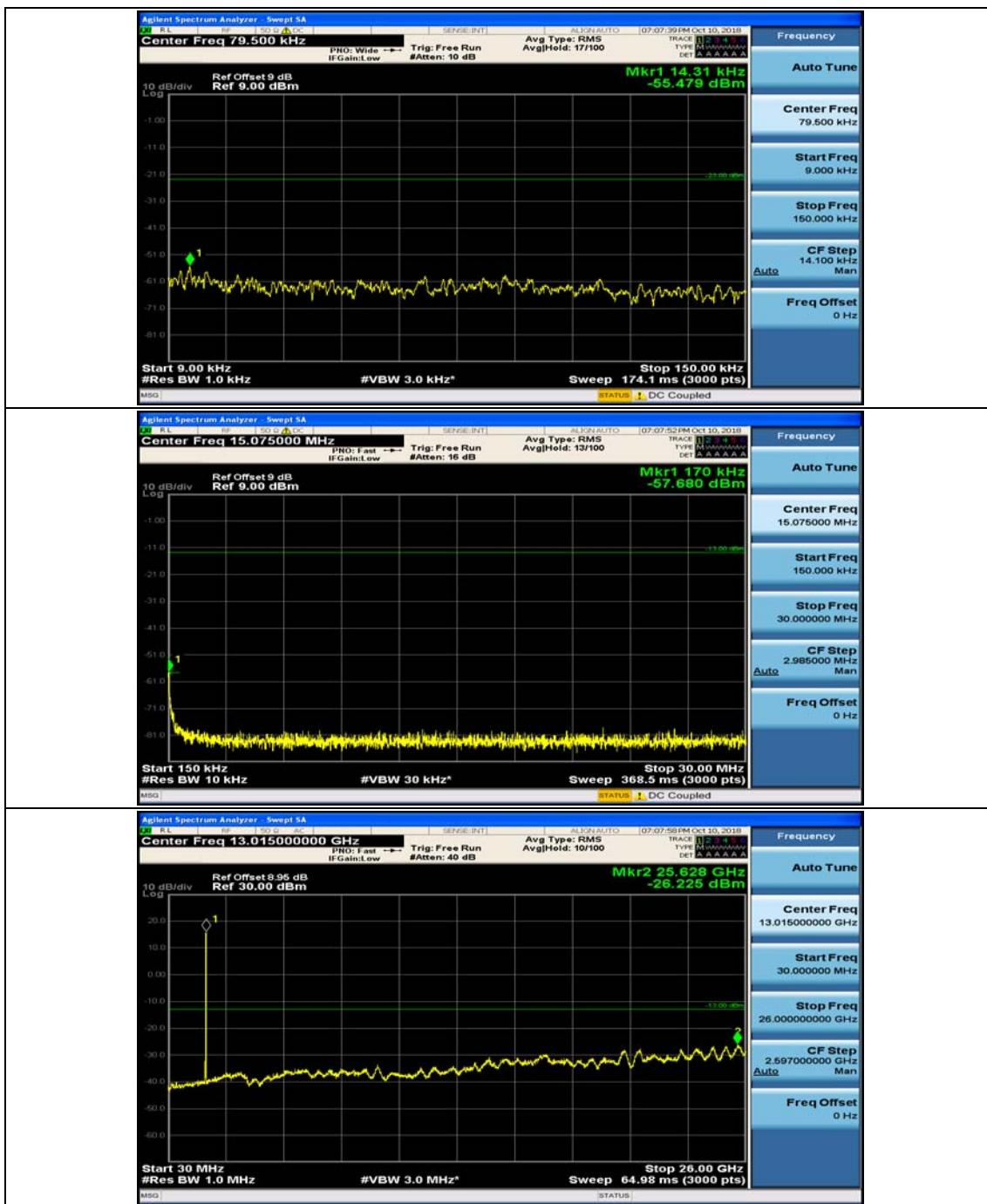


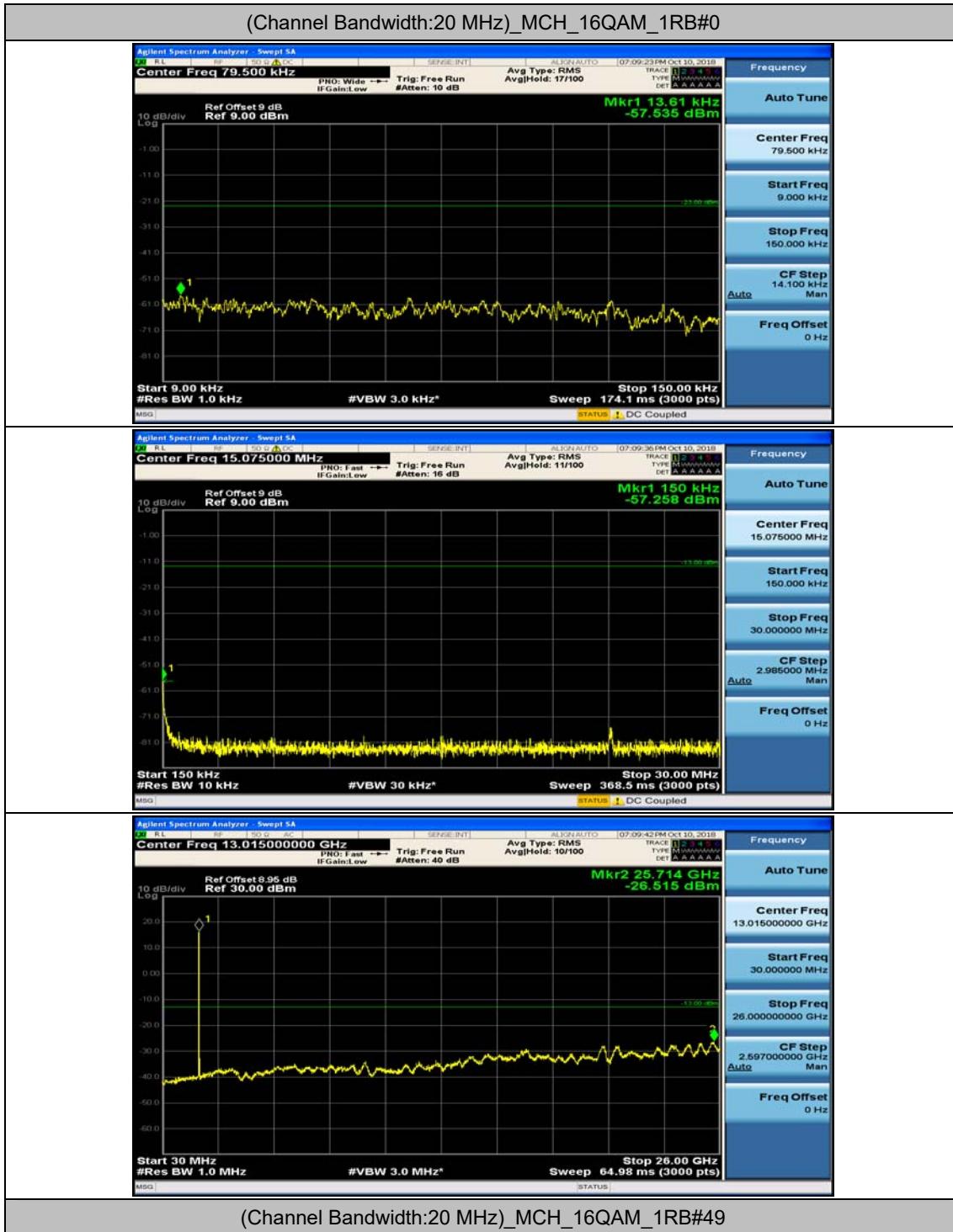


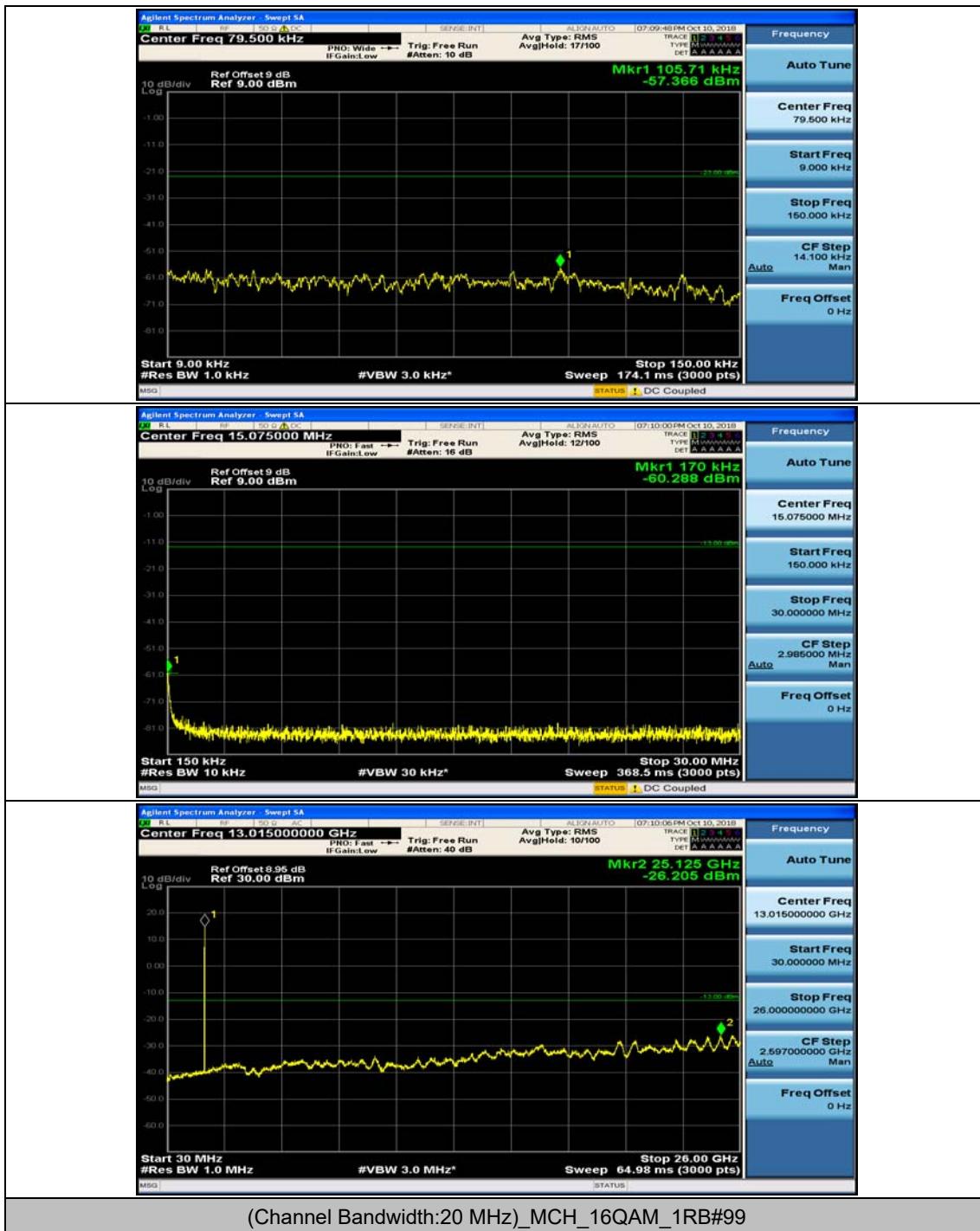


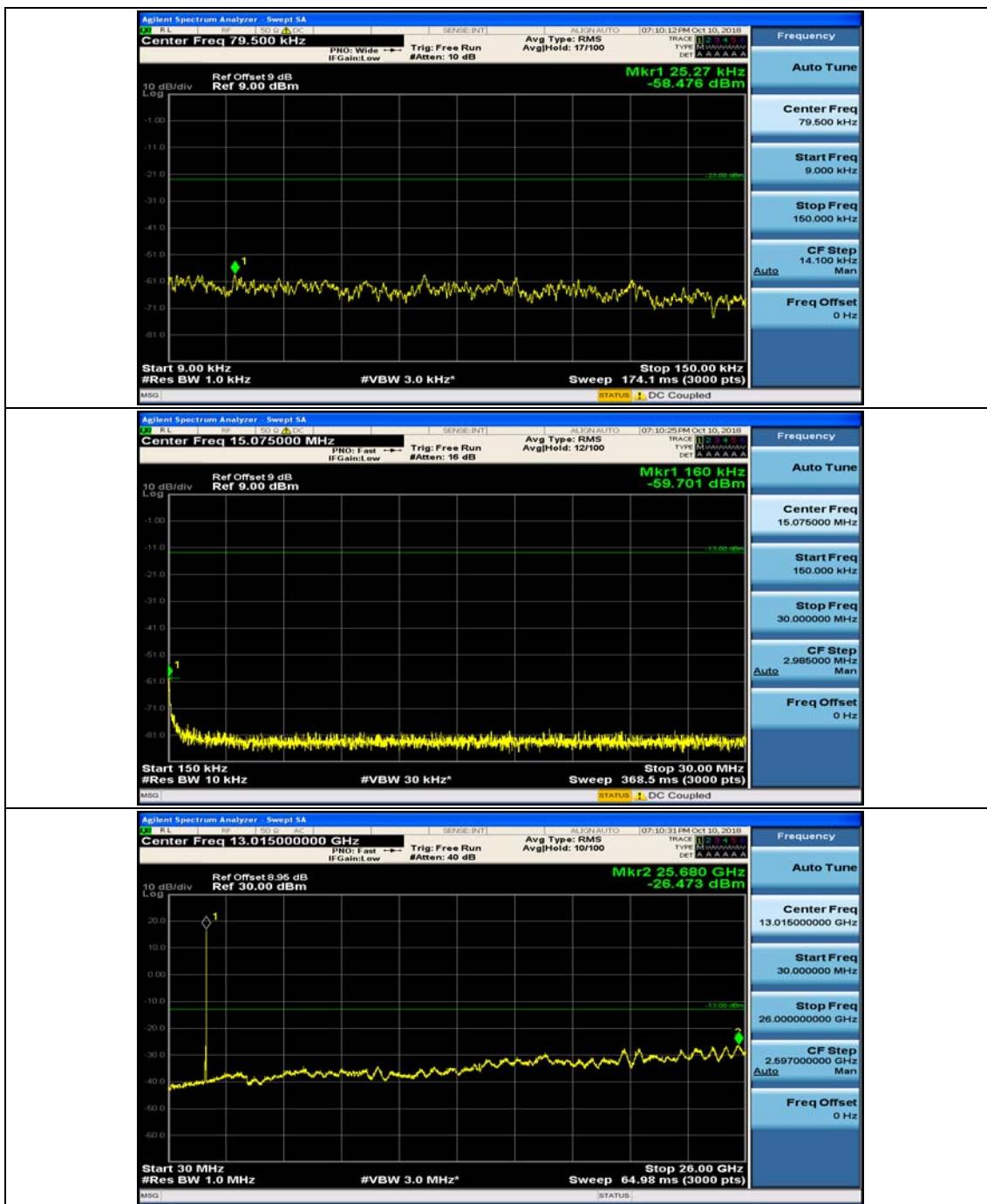


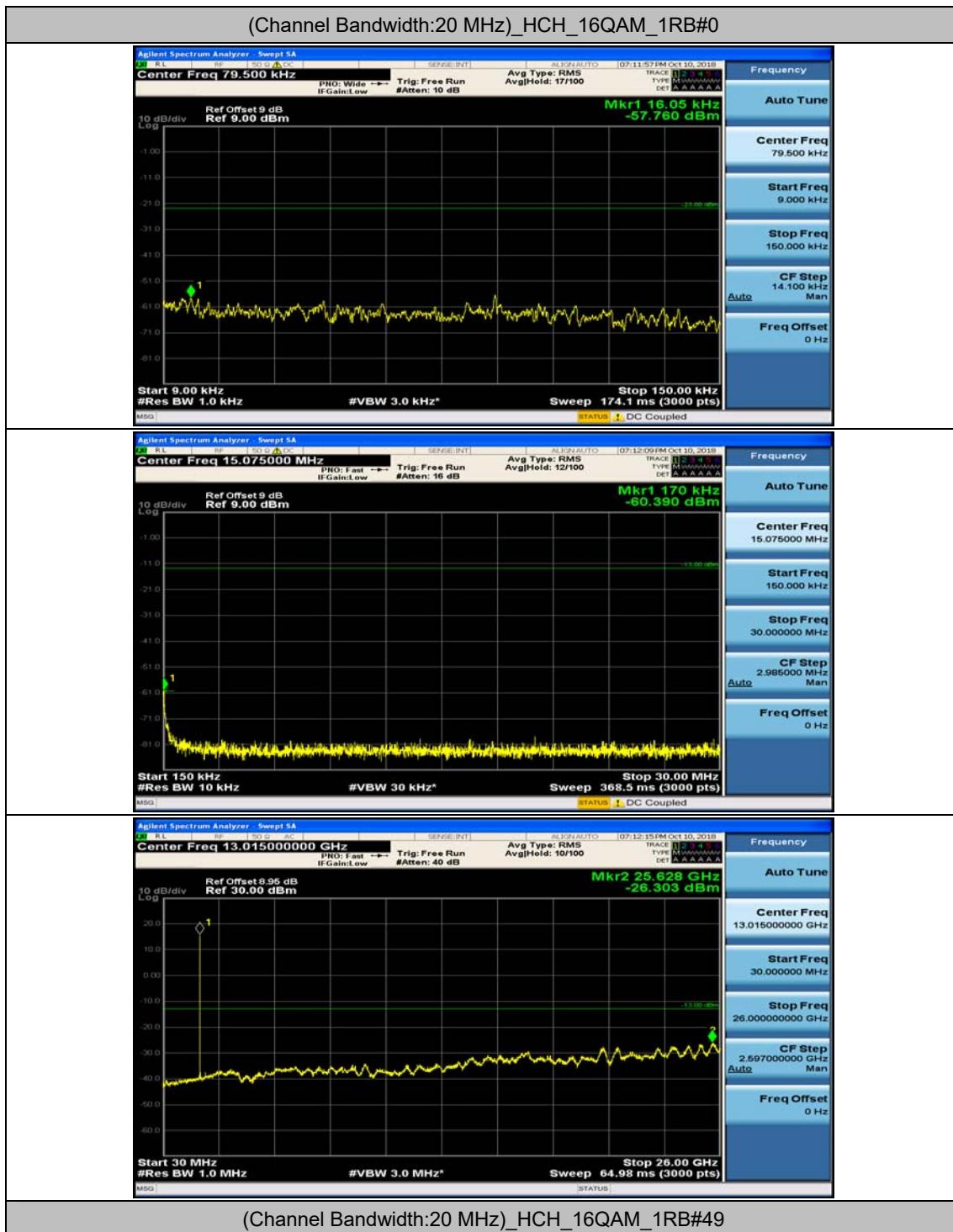


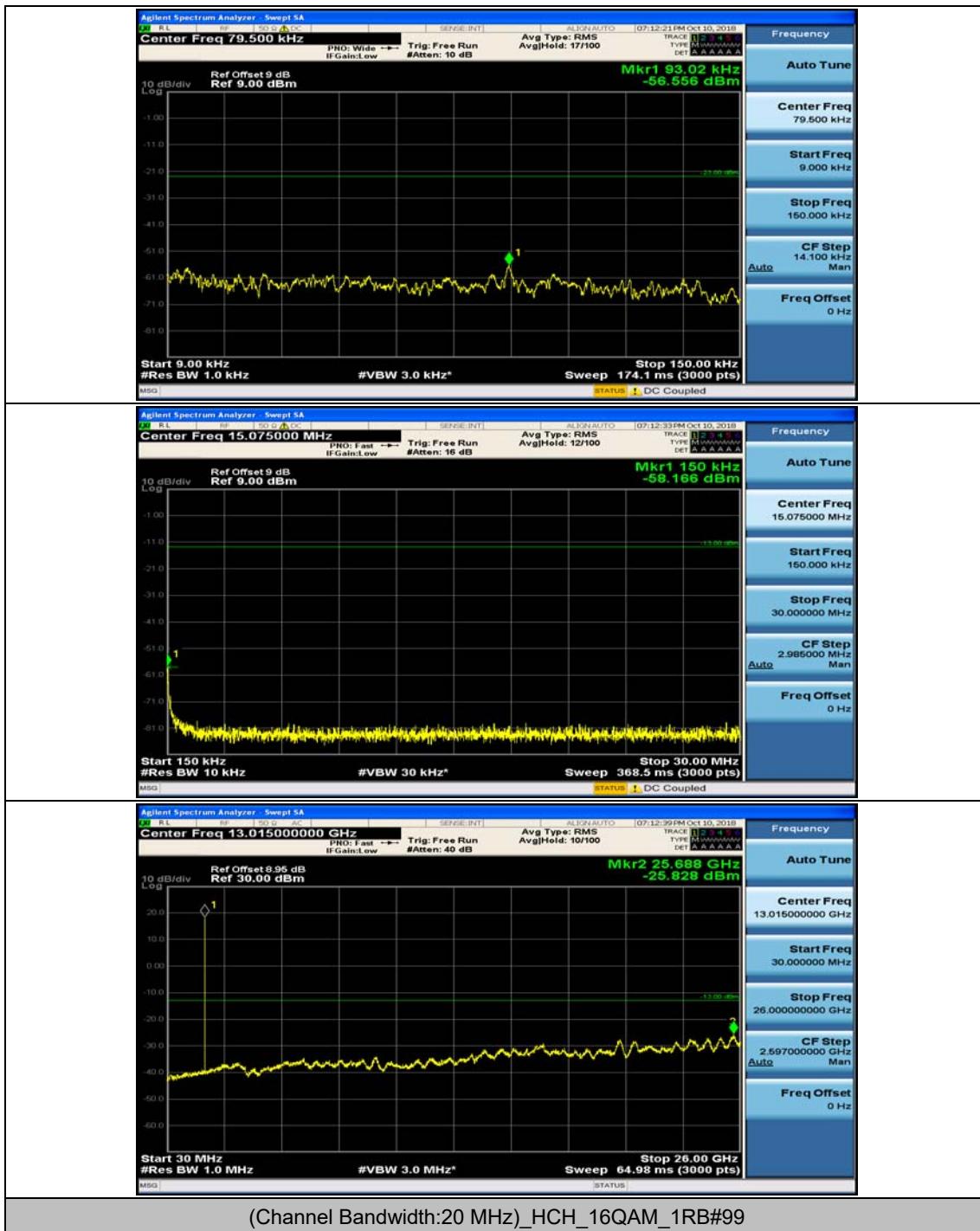


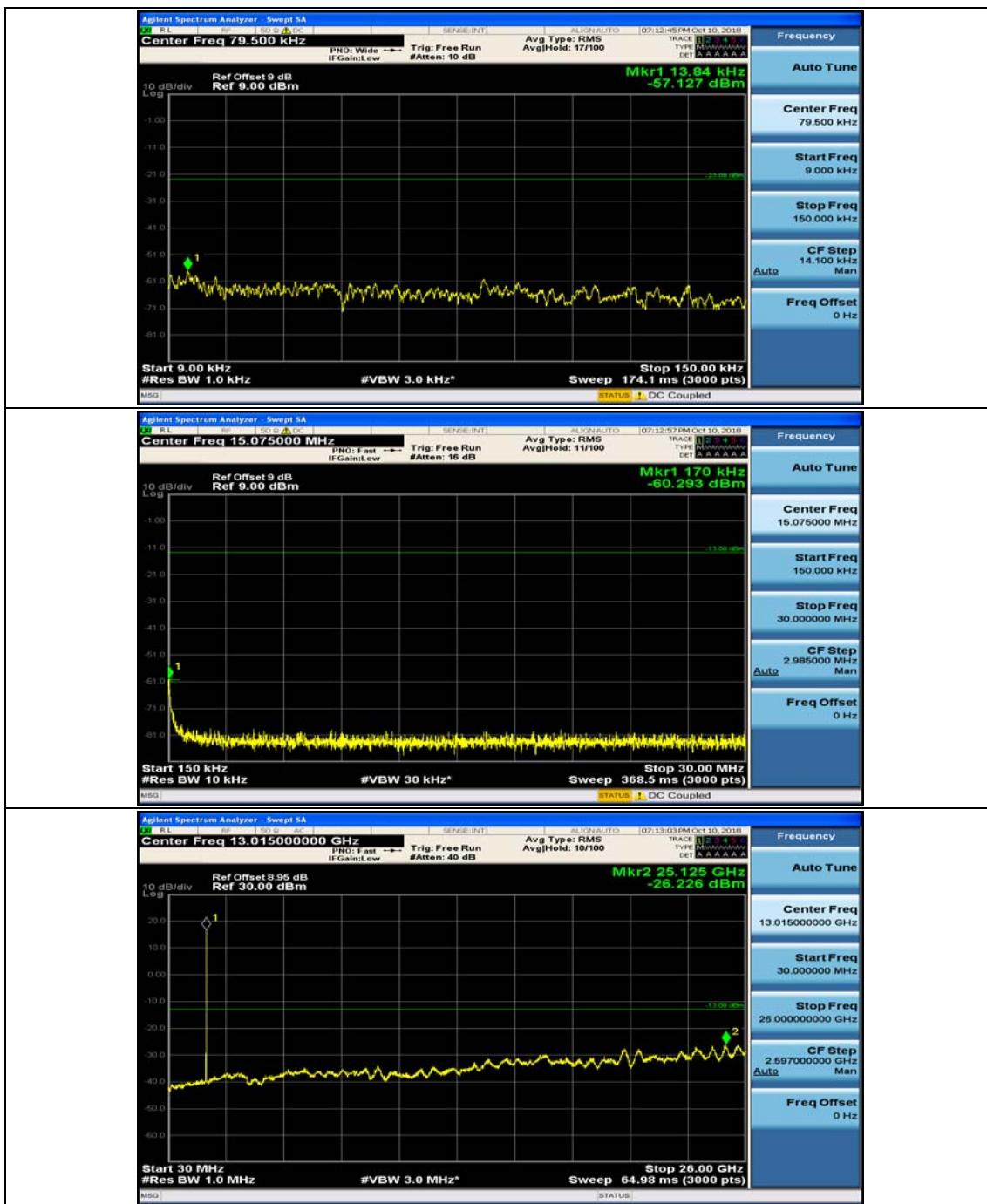












## Appendix F: Frequency Stability

### 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	3.84	0.002245	± 2.5	PASS
		VN	TN	0.86	0.000503	± 2.5	PASS
		VH	TN	-1.17	-0.000684	± 2.5	PASS
	MCH	VL	TN	0.2	0.000115	± 2.5	PASS
		VN	TN	3.78	0.002182	± 2.5	PASS
		VH	TN	3.43	0.001980	± 2.5	PASS
	HCH	VL	TN	2.28	0.001300	± 2.5	PASS
		VN	TN	3.63	0.002069	± 2.5	PASS
		VH	TN	-1.6	-0.000912	± 2.5	PASS
16QAM	LCH	VL	TN	2.25	0.001315	± 2.5	PASS
		VN	TN	3.16	0.001847	± 2.5	PASS
		VH	TN	-1.27	-0.000742	± 2.5	PASS
	MCH	VL	TN	3.15	0.001818	± 2.5	PASS
		VN	TN	2.82	0.001628	± 2.5	PASS
		VH	TN	1.3	0.000750	± 2.5	PASS
	HCH	VL	TN	3.57	0.002035	± 2.5	PASS
		VN	TN	4.41	0.002514	± 2.5	PASS
		VH	TN	-1.68	-0.000958	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	1.11	0.000649	± 2.5	PASS
		VN	-20	3.77	0.002204	± 2.5	PASS
		VN	-10	0.16	0.000094	± 2.5	PASS
		VN	0	2.77	0.001619	± 2.5	PASS
		VN	10	-1.37	-0.000801	± 2.5	PASS
		VN	20	1.95	0.001140	± 2.5	PASS
		VN	30	3.58	0.002093	± 2.5	PASS
		VN	40	-1.16	-0.000678	± 2.5	PASS
		VN	50	4.92	0.002876	± 2.5	PASS
	MCH	VN	-30	1.49	0.000860	± 2.5	PASS
		VN	-20	-1.84	-0.001062	± 2.5	PASS

	HCH	VN	-10	-0.87	-0.000502	$\pm 2.5$	PASS
		VN	0	3.12	0.001801	$\pm 2.5$	PASS
		VN	10	2.8	0.001616	$\pm 2.5$	PASS
		VN	20	-0.35	-0.000202	$\pm 2.5$	PASS
		VN	30	0.62	0.000358	$\pm 2.5$	PASS
		VN	40	2.36	0.001362	$\pm 2.5$	PASS
		VN	50	0.77	0.000444	$\pm 2.5$	PASS
		VN	-30	4.38	0.002497	$\pm 2.5$	PASS
		VN	-20	3.28	0.001870	$\pm 2.5$	PASS
		VN	-10	0.68	0.000388	$\pm 2.5$	PASS
16QAM	LCH	VN	0	4.31	0.002457	$\pm 2.5$	PASS
		VN	10	3.12	0.001778	$\pm 2.5$	PASS
		VN	20	0.2	0.000114	$\pm 2.5$	PASS
		VN	30	0.86	0.000490	$\pm 2.5$	PASS
		VN	40	3.41	0.001944	$\pm 2.5$	PASS
		VN	50	0.19	0.000108	$\pm 2.5$	PASS
		VN	-30	0.56	0.000327	$\pm 2.5$	PASS
		VN	-20	4.42	0.002584	$\pm 2.5$	PASS
		VN	-10	-1.27	-0.000742	$\pm 2.5$	PASS
	MCH	VN	0	0.94	0.000549	$\pm 2.5$	PASS
		VN	10	0.97	0.000567	$\pm 2.5$	PASS
		VN	20	3.86	0.002256	$\pm 2.5$	PASS
		VN	30	2.85	0.001666	$\pm 2.5$	PASS
		VN	40	-0.33	-0.000193	$\pm 2.5$	PASS
		VN	50	4.18	0.002443	$\pm 2.5$	PASS
		VN	-30	4.74	0.002702	$\pm 2.5$	PASS
		VN	-20	0.92	0.000524	$\pm 2.5$	PASS
		VN	-10	3.73	0.002126	$\pm 2.5$	PASS
		VN	0	2.75	0.001568	$\pm 2.5$	PASS
	HCH	VN	10	3.71	0.002115	$\pm 2.5$	PASS
		VN	20	-1.16	-0.000661	$\pm 2.5$	PASS
		VN	30	3.8	0.002166	$\pm 2.5$	PASS
		VN	40	1.85	0.001055	$\pm 2.5$	PASS
		VN	50	-1.87	-0.001066	$\pm 2.5$	PASS
		VN	-30	-1.55	-0.000884	$\pm 2.5$	PASS
		VN	-20	0.35	0.000200	$\pm 2.5$	PASS

		VN	40	4.35	0.002480	$\pm 2.5$	PASS
		VN	50	-0.7	-0.000399	$\pm 2.5$	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	1.88	0.001098	$\pm 2.5$	PASS
		VN	TN	0.91	0.000532	$\pm 2.5$	PASS
		VH	TN	1.13	0.000660	$\pm 2.5$	PASS
	MCH	VL	TN	1.83	0.001056	$\pm 2.5$	PASS
		VN	TN	0.63	0.000364	$\pm 2.5$	PASS
		VH	TN	-0.04	-0.000023	$\pm 2.5$	PASS
	HCH	VL	TN	2.09	0.001192	$\pm 2.5$	PASS
		VN	TN	4.12	0.002350	$\pm 2.5$	PASS
		VH	TN	0.91	0.000519	$\pm 2.5$	PASS
16QAM	LCH	VL	TN	4.25	0.002483	$\pm 2.5$	PASS
		VN	TN	-1.08	-0.000631	$\pm 2.5$	PASS
		VH	TN	3.19	0.001864	$\pm 2.5$	PASS
	MCH	VL	TN	3.74	0.002159	$\pm 2.5$	PASS
		VN	TN	-1.4	-0.000808	$\pm 2.5$	PASS
		VH	TN	4.14	0.002390	$\pm 2.5$	PASS
	HCH	VL	TN	0.02	0.000011	$\pm 2.5$	PASS
		VN	TN	-0.47	-0.000268	$\pm 2.5$	PASS
		VH	TN	-0.72	-0.000411	$\pm 2.5$	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	3.39	0.001981	$\pm 2.5$	PASS
		VN	-20	2.05	0.001198	$\pm 2.5$	PASS
		VN	-10	2.22	0.001297	$\pm 2.5$	PASS
		VN	0	2.3	0.001344	$\pm 2.5$	PASS
		VN	10	3.45	0.002016	$\pm 2.5$	PASS
		VN	20	-0.39	-0.000228	$\pm 2.5$	PASS
		VN	30	1.41	0.000824	$\pm 2.5$	PASS
		VN	40	4.16	0.002431	$\pm 2.5$	PASS
		VN	50	-0.5	-0.000292	$\pm 2.5$	PASS
	MCH	VN	-30	1.46	0.000843	$\pm 2.5$	PASS
		VN	-20	4.12	0.002378	$\pm 2.5$	PASS
		VN	-10	3.01	0.001737	$\pm 2.5$	PASS

	HCH	VN	0	2.34	0.001351	$\pm 2.5$	PASS
		VN	10	0.21	0.000121	$\pm 2.5$	PASS
		VN	20	4.73	0.002730	$\pm 2.5$	PASS
		VN	30	1.13	0.000652	$\pm 2.5$	PASS
		VN	40	1.56	0.000900	$\pm 2.5$	PASS
		VN	50	3.52	0.002032	$\pm 2.5$	PASS
		VN	-30	3.92	0.002236	$\pm 2.5$	PASS
		VN	-20	0.48	0.000274	$\pm 2.5$	PASS
		VN	-10	1.44	0.000821	$\pm 2.5$	PASS
		VN	0	1.76	0.001004	$\pm 2.5$	PASS
16QAM	LCH	VN	10	-1.1	-0.000627	$\pm 2.5$	PASS
		VN	20	2.12	0.001209	$\pm 2.5$	PASS
		VN	30	1.48	0.000844	$\pm 2.5$	PASS
		VN	40	0.09	0.000051	$\pm 2.5$	PASS
		VN	50	4.96	0.002829	$\pm 2.5$	PASS
		VN	-30	1.45	0.000837	$\pm 2.5$	PASS
		VN	-20	2.91	0.001680	$\pm 2.5$	PASS
		VN	-10	-1.04	-0.000600	$\pm 2.5$	PASS
		VN	0	0.93	0.000537	$\pm 2.5$	PASS
	MCH	VN	10	3.58	0.002066	$\pm 2.5$	PASS
		VN	20	3.34	0.001928	$\pm 2.5$	PASS
		VN	30	2.79	0.001610	$\pm 2.5$	PASS
		VN	40	0.8	0.000462	$\pm 2.5$	PASS
		VN	50	2.03	0.001172	$\pm 2.5$	PASS
		VN	-30	4.24	0.002418	$\pm 2.5$	PASS
		VN	-20	0.23	0.000131	$\pm 2.5$	PASS
		VN	-10	0.51	0.000291	$\pm 2.5$	PASS
		VN	0	2.67	0.001523	$\pm 2.5$	PASS
	HCH	VN	10	3.98	0.002270	$\pm 2.5$	PASS
		VN	20	1.35	0.000770	$\pm 2.5$	PASS
		VN	30	-1.13	-0.000644	$\pm 2.5$	PASS
		VN	40	1.63	0.000930	$\pm 2.5$	PASS
		VN	50	0.94	0.000536	$\pm 2.5$	PASS
		VN	-30	-1.26	-0.000719	$\pm 2.5$	PASS
		VN	-20	2.41	0.001374	$\pm 2.5$	PASS
		VN	-10	2.34	0.001334	$\pm 2.5$	PASS
		VN	0	4.19	0.002390	$\pm 2.5$	PASS

		VN	50	-0.19	-0.000108	$\pm 2.5$	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	-1.45	-0.000847	$\pm 2.5$	PASS
		VN	TN	3.01	0.001758	$\pm 2.5$	PASS
		VH	TN	3.45	0.002015	$\pm 2.5$	PASS
	MCH	VL	TN	0.12	0.000069	$\pm 2.5$	PASS
		VN	TN	-1.45	-0.000837	$\pm 2.5$	PASS
		VH	TN	-1.45	-0.000837	$\pm 2.5$	PASS
	HCH	VL	TN	-1.75	-0.000999	$\pm 2.5$	PASS
		VN	TN	-1.45	-0.000827	$\pm 2.5$	PASS
		VH	TN	-0.65	-0.000371	$\pm 2.5$	PASS
16QAM	LCH	VL	TN	2.92	0.001705	$\pm 2.5$	PASS
		VN	TN	4.26	0.002488	$\pm 2.5$	PASS
		VH	TN	0.65	0.000380	$\pm 2.5$	PASS
	MCH	VL	TN	3.73	0.002153	$\pm 2.5$	PASS
		VN	TN	1.2	0.000693	$\pm 2.5$	PASS
		VH	TN	3.66	0.002113	$\pm 2.5$	PASS
	HCH	VL	TN	-0.21	-0.000120	$\pm 2.5$	PASS
		VN	TN	0.93	0.000531	$\pm 2.5$	PASS
		VH	TN	0.28	0.000160	$\pm 2.5$	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	0.61	0.000356	$\pm 2.5$	PASS
		VN	-20	3.51	0.002050	$\pm 2.5$	PASS
		VN	-10	3.39	0.001980	$\pm 2.5$	PASS
		VN	0	2.07	0.001209	$\pm 2.5$	PASS
		VN	10	2.75	0.001606	$\pm 2.5$	PASS
		VN	20	4.09	0.002388	$\pm 2.5$	PASS
		VN	30	-0.03	-0.000018	$\pm 2.5$	PASS
		VN	40	-1.14	-0.000666	$\pm 2.5$	PASS
		VN	50	2.51	0.001466	$\pm 2.5$	PASS
	MCH	VN	-30	2.43	0.001403	$\pm 2.5$	PASS
		VN	-20	1.48	0.000854	$\pm 2.5$	PASS
		VN	-10	1.58	0.000912	$\pm 2.5$	PASS
		VN	0	3.54	0.002043	$\pm 2.5$	PASS

		VN	10	3.86	0.002228	$\pm 2.5$	PASS
		VN	20	-1.94	-0.001120	$\pm 2.5$	PASS
		VN	30	3.6	0.002078	$\pm 2.5$	PASS
		VN	40	0.81	0.000468	$\pm 2.5$	PASS
		VN	50	2.05	0.001183	$\pm 2.5$	PASS
	HCH	VN	-30	1.64	0.000936	$\pm 2.5$	PASS
		VN	-20	4.01	0.002102	$\pm 2.5$	PASS
		VN	-10	-0.9	-0.000472	$\pm 2.5$	PASS
		VN	0	4.86	0.002548	$\pm 2.5$	PASS
		VN	10	1.11	0.000582	$\pm 2.5$	PASS
		VN	20	1.38	0.000723	$\pm 2.5$	PASS
		VN	30	3.21	0.001683	$\pm 2.5$	PASS
		VN	40	0.48	0.000252	$\pm 2.5$	PASS
		VN	50	-1.88	-0.000986	$\pm 2.5$	PASS
16QAM	LCH	VN	-30	4.44	0.002563	$\pm 2.5$	PASS
		VN	-20	0.9	0.000519	$\pm 2.5$	PASS
		VN	-10	3.85	0.002222	$\pm 2.5$	PASS
		VN	0	1.13	0.000652	$\pm 2.5$	PASS
		VN	10	2.91	0.001680	$\pm 2.5$	PASS
		VN	20	4.82	0.002782	$\pm 2.5$	PASS
		VN	30	4.82	0.002782	$\pm 2.5$	PASS
		VN	40	1	0.000577	$\pm 2.5$	PASS
		VN	50	-0.96	-0.000554	$\pm 2.5$	PASS
	MCH	VN	-30	0.93	0.000531	$\pm 2.5$	PASS
		VN	-20	1.96	0.001118	$\pm 2.5$	PASS
		VN	-10	2.81	0.001603	$\pm 2.5$	PASS
		VN	0	3.02	0.001723	$\pm 2.5$	PASS
		VN	10	4.1	0.002340	$\pm 2.5$	PASS
		VN	20	0.37	0.000211	$\pm 2.5$	PASS
		VN	30	2.05	0.001170	$\pm 2.5$	PASS
		VN	40	3.84	0.002191	$\pm 2.5$	PASS
		VN	50	2.65	0.001512	$\pm 2.5$	PASS
	HCH	VN	-30	3.16	0.001657	$\pm 2.5$	PASS
		VN	-20	-1.18	-0.000619	$\pm 2.5$	PASS
		VN	-10	3.76	0.001971	$\pm 2.5$	PASS
		VN	0	-0.34	-0.000178	$\pm 2.5$	PASS
		VN	10	3.46	0.001814	$\pm 2.5$	PASS
		VN	20	4.79	0.002511	$\pm 2.5$	PASS
		VN	30	3.15	0.001651	$\pm 2.5$	PASS
		VN	40	0.07	0.000037	$\pm 2.5$	PASS
		VN	50	2	0.001048	$\pm 2.5$	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	3.36	0.001959	± 2.5	PASS
		VN	TN	2.19	0.001277	± 2.5	PASS
		VH	TN	2.9	0.001691	± 2.5	PASS
	MCH	VL	TN	4.26	0.002459	± 2.5	PASS
		VN	TN	0.82	0.000473	± 2.5	PASS
		VH	TN	3.54	0.002043	± 2.5	PASS
	HCH	VL	TN	1.74	0.000994	± 2.5	PASS
		VN	TN	1.44	0.000823	± 2.5	PASS
		VH	TN	4.07	0.002326	± 2.5	PASS
16QAM	LCH	VL	TN	3.7	0.002157	± 2.5	PASS
		VN	TN	-0.65	-0.000379	± 2.5	PASS
		VH	TN	-1.67	-0.000974	± 2.5	PASS
	MCH	VL	TN	-1.87	-0.001079	± 2.5	PASS
		VN	TN	-0.61	-0.000352	± 2.5	PASS
		VH	TN	1.09	0.000629	± 2.5	PASS
	HCH	VL	TN	-0.43	-0.000246	± 2.5	PASS
		VN	TN	0.6	0.000343	± 2.5	PASS
		VH	TN	3.04	0.001737	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
16QAM	LCH	VN	-30	4.09	0.002385	± 2.5	PASS
		VN	-20	-0.78	-0.000455	± 2.5	PASS
		VN	-10	4.39	0.002560	± 2.5	PASS
		VN	0	3.46	0.002017	± 2.5	PASS
		VN	10	4.64	0.002706	± 2.5	PASS
		VN	20	1.72	0.001003	± 2.5	PASS
		VN	30	1.15	0.000671	± 2.5	PASS
		VN	40	3.31	0.001930	± 2.5	PASS
		VN	50	-0.41	-0.000239	± 2.5	PASS
	MCH	VN	-30	-0.93	-0.000537	± 2.5	PASS
		VN	-20	3.09	0.001784	± 2.5	PASS
		VN	-10	1.45	0.000837	± 2.5	PASS
		VN	0	1.67	0.000964	± 2.5	PASS
		VN	10	1.85	0.001068	± 2.5	PASS
		VN	20	1.78	0.001027	± 2.5	PASS

	HCH	VN	30	1.54	0.000889	$\pm 2.5$	PASS
		VN	40	-0.18	-0.000104	$\pm 2.5$	PASS
		VN	50	-0.86	-0.000496	$\pm 2.5$	PASS
		VN	-30	-1.16	-0.000663	$\pm 2.5$	PASS
		VN	-20	-0.12	-0.000069	$\pm 2.5$	PASS
		VN	-10	4.08	0.002331	$\pm 2.5$	PASS
		VN	0	-0.93	-0.000531	$\pm 2.5$	PASS
		VN	10	0.6	0.000343	$\pm 2.5$	PASS
		VN	20	3.05	0.001743	$\pm 2.5$	PASS
		VN	30	3.35	0.001914	$\pm 2.5$	PASS
	LCH	VN	40	3.6	0.002057	$\pm 2.5$	PASS
		VN	50	1.14	0.000651	$\pm 2.5$	PASS
		VN	-30	0.62	0.000358	$\pm 2.5$	PASS
		VN	-20	-1.65	-0.000952	$\pm 2.5$	PASS
		VN	-10	-1.78	-0.001027	$\pm 2.5$	PASS
		VN	0	-1.95	-0.001126	$\pm 2.5$	PASS
		VN	10	0.14	0.000081	$\pm 2.5$	PASS
		VN	20	-1.14	-0.000658	$\pm 2.5$	PASS
		VN	30	0.29	0.000167	$\pm 2.5$	PASS
	MCH	VN	40	-0.72	-0.000416	$\pm 2.5$	PASS
		VN	50	0.5	0.000289	$\pm 2.5$	PASS
		VN	-30	3.77	0.002154	$\pm 2.5$	PASS
		VN	-20	0.83	0.000474	$\pm 2.5$	PASS
		VN	-10	-0.42	-0.000240	$\pm 2.5$	PASS
		VN	0	0.91	0.000520	$\pm 2.5$	PASS
		VN	10	-1.87	-0.001069	$\pm 2.5$	PASS
		VN	20	1.66	0.000949	$\pm 2.5$	PASS
		VN	30	4.14	0.002366	$\pm 2.5$	PASS
	HCH	VN	40	4.57	0.002611	$\pm 2.5$	PASS
		VN	50	1.01	0.000577	$\pm 2.5$	PASS
		VN	-30	2.43	0.001389	$\pm 2.5$	PASS
		VN	-20	-1.55	-0.000886	$\pm 2.5$	PASS
		VN	-10	3.54	0.002023	$\pm 2.5$	PASS
		VN	0	3.92	0.002240	$\pm 2.5$	PASS
		VN	10	0.36	0.000206	$\pm 2.5$	PASS
		VN	20	2.68	0.001531	$\pm 2.5$	PASS
		VN	30	4.62	0.002640	$\pm 2.5$	PASS
		VN	40	1.81	0.001034	$\pm 2.5$	PASS
		VN	50	-1.09	-0.000623	$\pm 2.5$	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	3.11	0.001811	± 2.5	PASS
		VN	TN	4.38	0.002550	± 2.5	PASS
		VH	TN	0.76	0.000443	± 2.5	PASS
	MCH	VL	TN	3.99	0.002303	± 2.5	PASS
		VN	TN	-1.19	-0.000687	± 2.5	PASS
		VH	TN	2.32	0.001339	± 2.5	PASS
	HCH	VL	TN	3.51	0.002009	± 2.5	PASS
		VN	TN	4.51	0.002581	± 2.5	PASS
		VH	TN	4.33	0.002478	± 2.5	PASS
16QAM	LCH	VL	TN	3.28	0.001910	± 2.5	PASS
		VN	TN	0.3	0.000175	± 2.5	PASS
		VH	TN	0.79	0.000460	± 2.5	PASS
	MCH	VL	TN	-0.21	-0.000121	± 2.5	PASS
		VN	TN	0.21	0.000121	± 2.5	PASS
		VH	TN	4.65	0.002684	± 2.5	PASS
	HCH	VL	TN	3.55	0.002031	± 2.5	PASS
		VN	TN	-1.67	-0.000956	± 2.5	PASS
		VH	TN	-1.97	-0.001127	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-0.16	-0.000093	± 2.5	PASS
		VN	-20	5	0.002911	± 2.5	PASS
		VN	-10	-1.39	-0.000809	± 2.5	PASS
		VN	0	0.63	0.000367	± 2.5	PASS
		VN	10	1.13	0.000658	± 2.5	PASS
		VN	20	0.49	0.000285	± 2.5	PASS
		VN	30	0.14	0.000082	± 2.5	PASS
		VN	40	-0.28	-0.000163	± 2.5	PASS
		VN	50	1.34	0.000780	± 2.5	PASS
	MCH	VN	-30	3.38	0.001951	± 2.5	PASS
		VN	-20	3.79	0.002188	± 2.5	PASS
		VN	-10	-1.33	-0.000768	± 2.5	PASS
		VN	0	3.43	0.001980	± 2.5	PASS
		VN	10	-0.65	-0.000375	± 2.5	PASS
		VN	20	4.94	0.002851	± 2.5	PASS

		VN	30	-1.33	-0.000768	$\pm 2.5$	PASS
		VN	40	-0.32	-0.000185	$\pm 2.5$	PASS
		VN	50	1.15	0.000664	$\pm 2.5$	PASS
	HCH	VN	-30	-0.66	-0.000378	$\pm 2.5$	PASS
		VN	-20	-0.48	-0.000275	$\pm 2.5$	PASS
		VN	-10	3.01	0.001722	$\pm 2.5$	PASS
		VN	0	0.43	0.000246	$\pm 2.5$	PASS
		VN	10	2.84	0.001625	$\pm 2.5$	PASS
		VN	20	-1.44	-0.000824	$\pm 2.5$	PASS
		VN	30	2.38	0.001362	$\pm 2.5$	PASS
16QAM	LCH	VN	40	-1.68	-0.000961	$\pm 2.5$	PASS
		VN	50	-1.04	-0.000595	$\pm 2.5$	PASS
	MCH	VN	-30	0.99	0.000571	$\pm 2.5$	PASS
		VN	-20	-0.88	-0.000508	$\pm 2.5$	PASS
		VN	-10	4.65	0.002684	$\pm 2.5$	PASS
		VN	0	-1.93	-0.001114	$\pm 2.5$	PASS
		VN	10	3.75	0.002165	$\pm 2.5$	PASS
		VN	20	1.41	0.000814	$\pm 2.5$	PASS
		VN	30	2.19	0.001264	$\pm 2.5$	PASS
		VN	40	2.54	0.001466	$\pm 2.5$	PASS
		VN	50	-1.83	-0.001056	$\pm 2.5$	PASS
	HCH	VN	-30	0.01	0.000006	$\pm 2.5$	PASS
		VN	-20	4.64	0.002655	$\pm 2.5$	PASS
		VN	-10	0.97	0.000555	$\pm 2.5$	PASS
		VN	0	-0.17	-0.000097	$\pm 2.5$	PASS
		VN	10	0.95	0.000544	$\pm 2.5$	PASS
		VN	20	-0.73	-0.000418	$\pm 2.5$	PASS
		VN	30	4.96	0.002838	$\pm 2.5$	PASS
		VN	40	0.03	0.000017	$\pm 2.5$	PASS
		VN	50	-0.79	-0.000452	$\pm 2.5$	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	-0.82	-0.000477	± 2.5	PASS
		VN	TN	-0.25	-0.000145	± 2.5	PASS
		VH	TN	1.04	0.000605	± 2.5	PASS
	MCH	VL	TN	3.44	0.001986	± 2.5	PASS
		VN	TN	-0.53	-0.000306	± 2.5	PASS
		VH	TN	4.55	0.002626	± 2.5	PASS
	HCH	VL	TN	4.02	0.002304	± 2.5	PASS
		VN	TN	0.72	0.000413	± 2.5	PASS
		VH	TN	-1.81	-0.001037	± 2.5	PASS
16QAM	LCH	VL	TN	0.89	0.000517	± 2.5	PASS
		VN	TN	1.83	0.001064	± 2.5	PASS
		VH	TN	2.25	0.001308	± 2.5	PASS
	MCH	VL	TN	1.72	0.000993	± 2.5	PASS
		VN	TN	0.9	0.000519	± 2.5	PASS
		VH	TN	4.84	0.002794	± 2.5	PASS
	HCH	VL	TN	0.21	0.000120	± 2.5	PASS
		VN	TN	-1.3	-0.000745	± 2.5	PASS
		VH	TN	-1.17	-0.000670	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-1.45	-0.000843	± 2.5	PASS
		VN	-20	4.62	0.002686	± 2.5	PASS
		VN	-10	-1.12	-0.000651	± 2.5	PASS
		VN	0	2.41	0.001401	± 2.5	PASS
		VN	10	4.24	0.002465	± 2.5	PASS
		VN	20	1.62	0.000942	± 2.5	PASS
		VN	30	-0.23	-0.000134	± 2.5	PASS
		VN	40	3.02	0.001756	± 2.5	PASS
		VN	50	1.97	0.001145	± 2.5	PASS
	MCH	VN	-30	-0.81	-0.000468	± 2.5	PASS
		VN	-20	4.29	0.002476	± 2.5	PASS
		VN	-10	4.55	0.002626	± 2.5	PASS
		VN	0	3.23	0.001864	± 2.5	PASS
		VN	10	3.55	0.002049	± 2.5	PASS
		VN	20	-1.78	-0.001027	± 2.5	PASS

		VN	30	3.64	0.002101	$\pm 2.5$	PASS
		VN	40	1.62	0.000935	$\pm 2.5$	PASS
		VN	50	-1.27	-0.000733	$\pm 2.5$	PASS
	HCH	VN	-30	-0.75	-0.000430	$\pm 2.5$	PASS
		VN	-20	4.47	0.002562	$\pm 2.5$	PASS
		VN	-10	1.05	0.000602	$\pm 2.5$	PASS
		VN	0	3.09	0.001771	$\pm 2.5$	PASS
		VN	10	4.71	0.002699	$\pm 2.5$	PASS
		VN	20	1.56	0.000894	$\pm 2.5$	PASS
		VN	30	1.84	0.001054	$\pm 2.5$	PASS
16QAM	LCH	VN	40	4.28	0.002453	$\pm 2.5$	PASS
		VN	50	0.16	0.000092	$\pm 2.5$	PASS
	MCH	VN	-30	-1.66	-0.000958	$\pm 2.5$	PASS
		VN	-20	3.67	0.002118	$\pm 2.5$	PASS
		VN	-10	1.69	0.000975	$\pm 2.5$	PASS
		VN	0	4.46	0.002574	$\pm 2.5$	PASS
		VN	10	-0.5	-0.000289	$\pm 2.5$	PASS
		VN	20	-0.45	-0.000260	$\pm 2.5$	PASS
		VN	30	0.33	0.000190	$\pm 2.5$	PASS
		VN	40	-0.59	-0.000341	$\pm 2.5$	PASS
		VN	50	4.13	0.002384	$\pm 2.5$	PASS
	HCH	VN	-30	0.2	0.000115	$\pm 2.5$	PASS
		VN	-20	0.09	0.000052	$\pm 2.5$	PASS
		VN	-10	4.94	0.002831	$\pm 2.5$	PASS
		VN	0	2.33	0.001335	$\pm 2.5$	PASS
		VN	10	-1.87	-0.001072	$\pm 2.5$	PASS
		VN	20	2.54	0.001456	$\pm 2.5$	PASS
		VN	30	1.39	0.000797	$\pm 2.5$	PASS
		VN	40	2.76	0.001582	$\pm 2.5$	PASS
		VN	50	0.06	0.000034	$\pm 2.5$	PASS