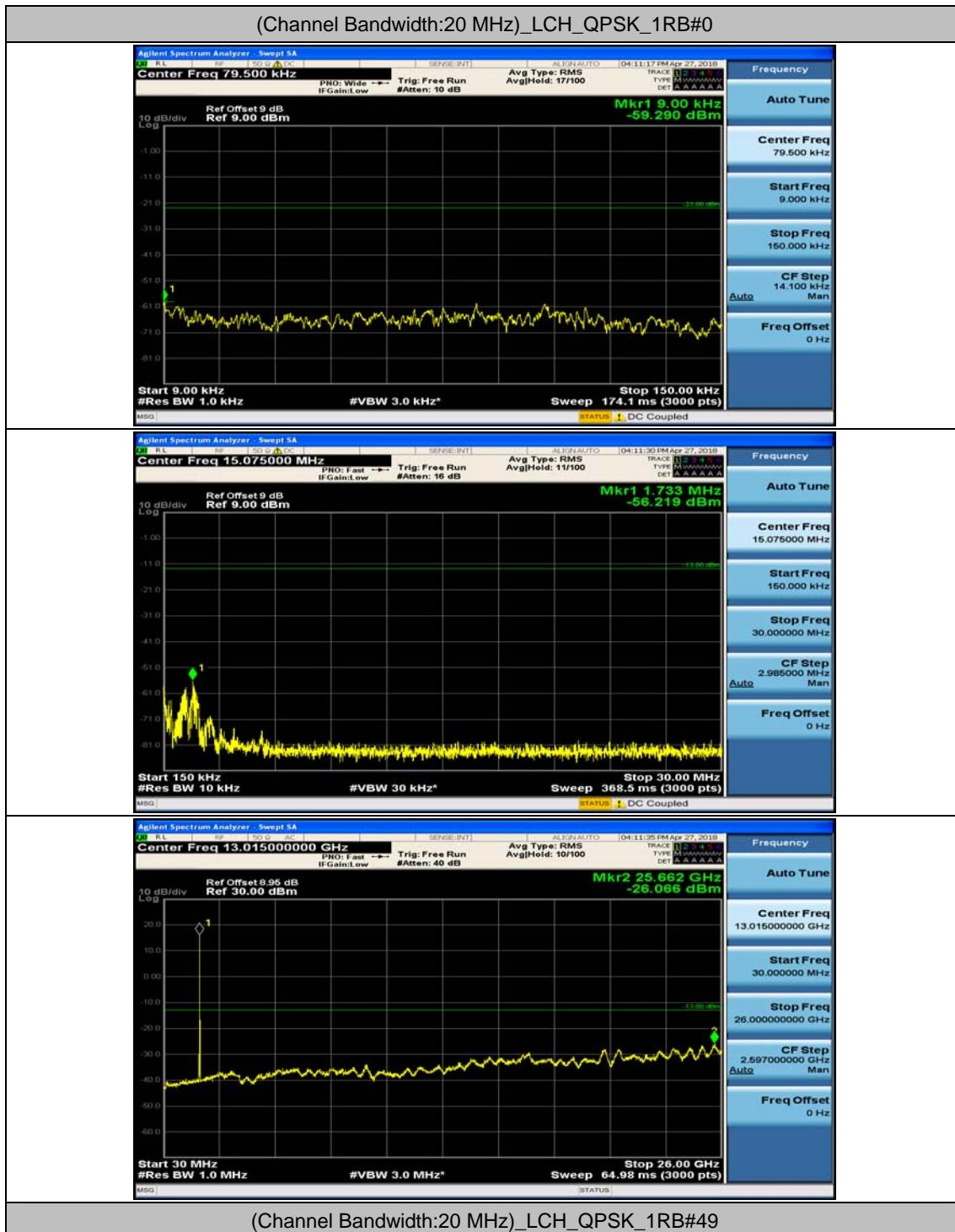
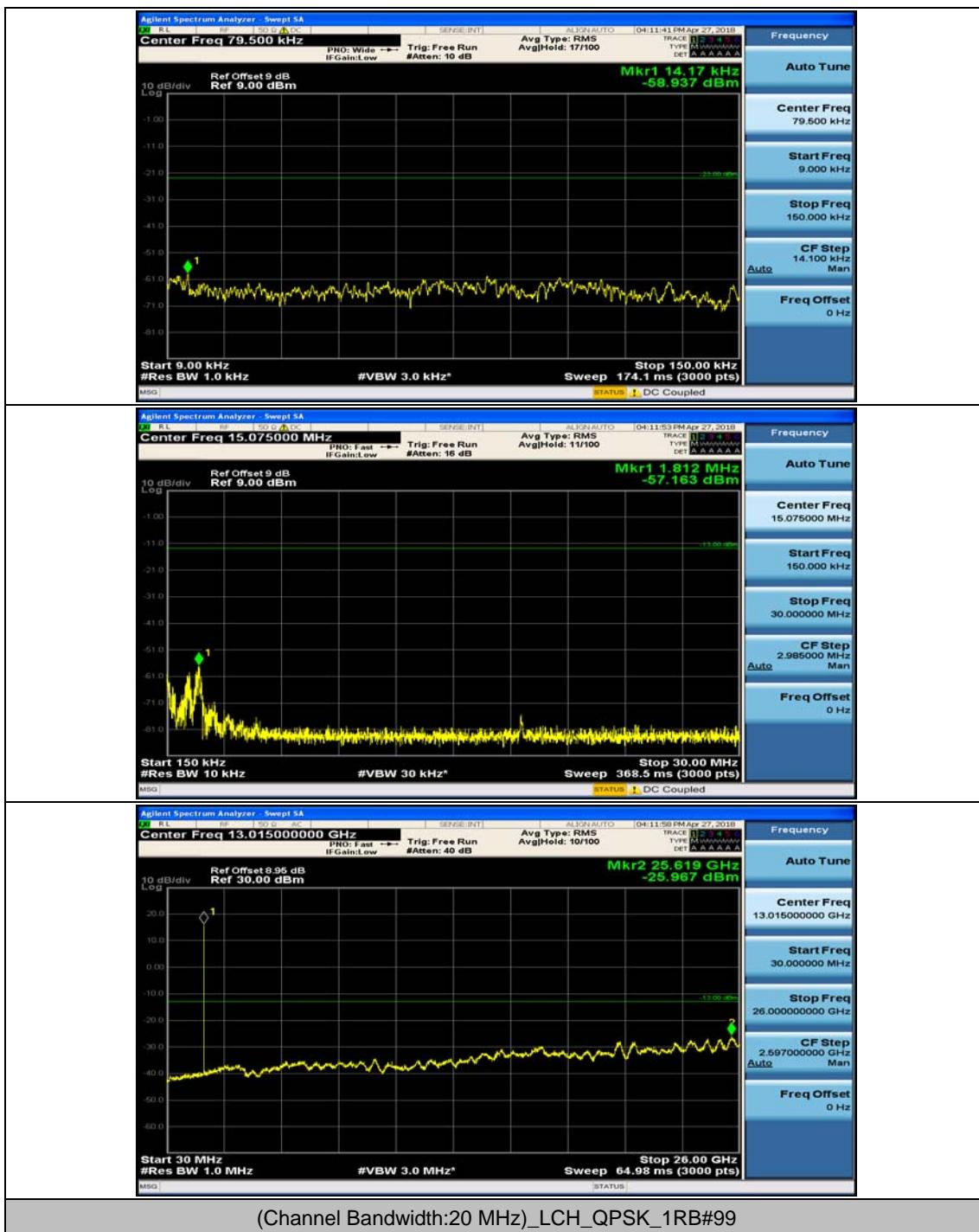
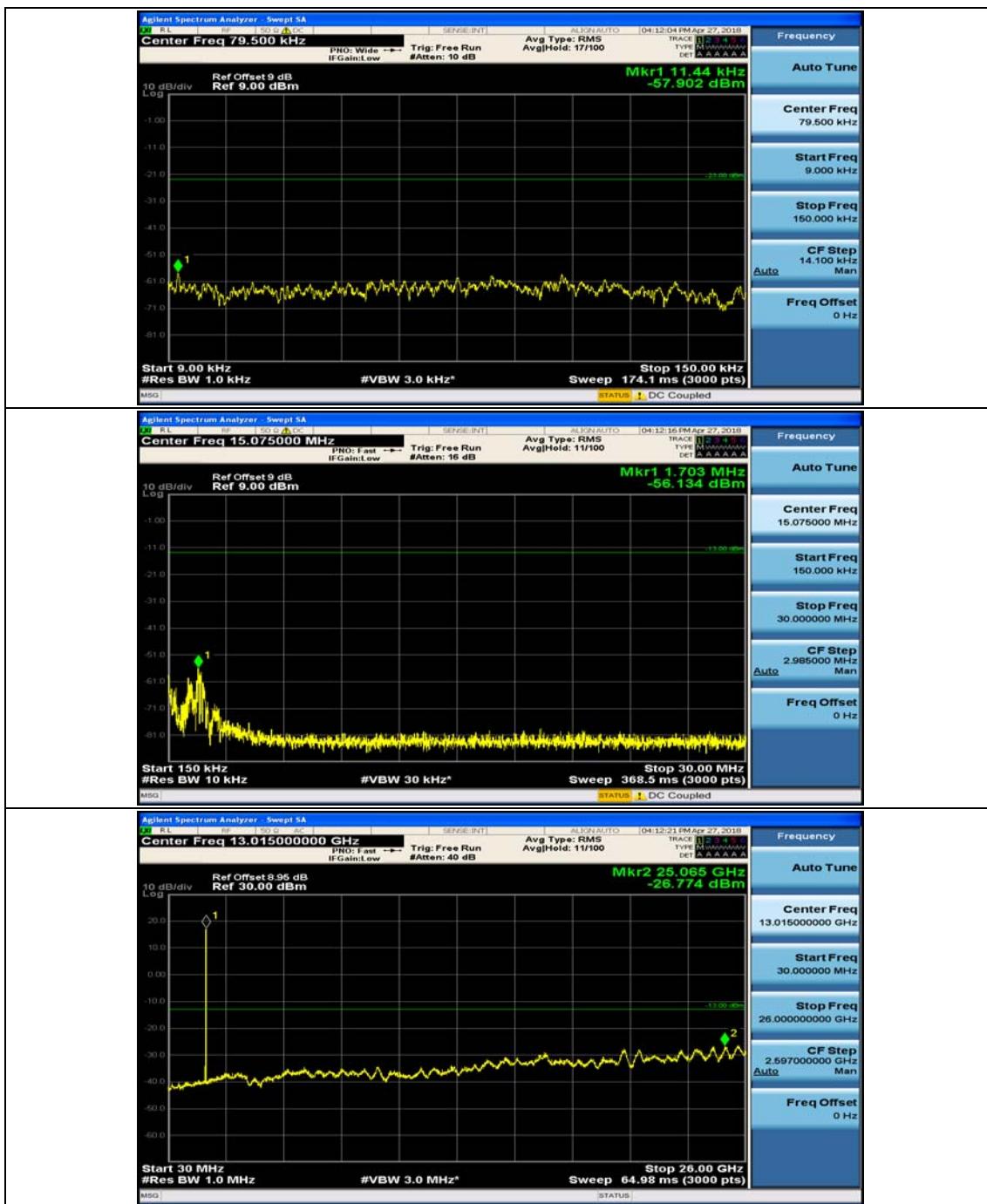
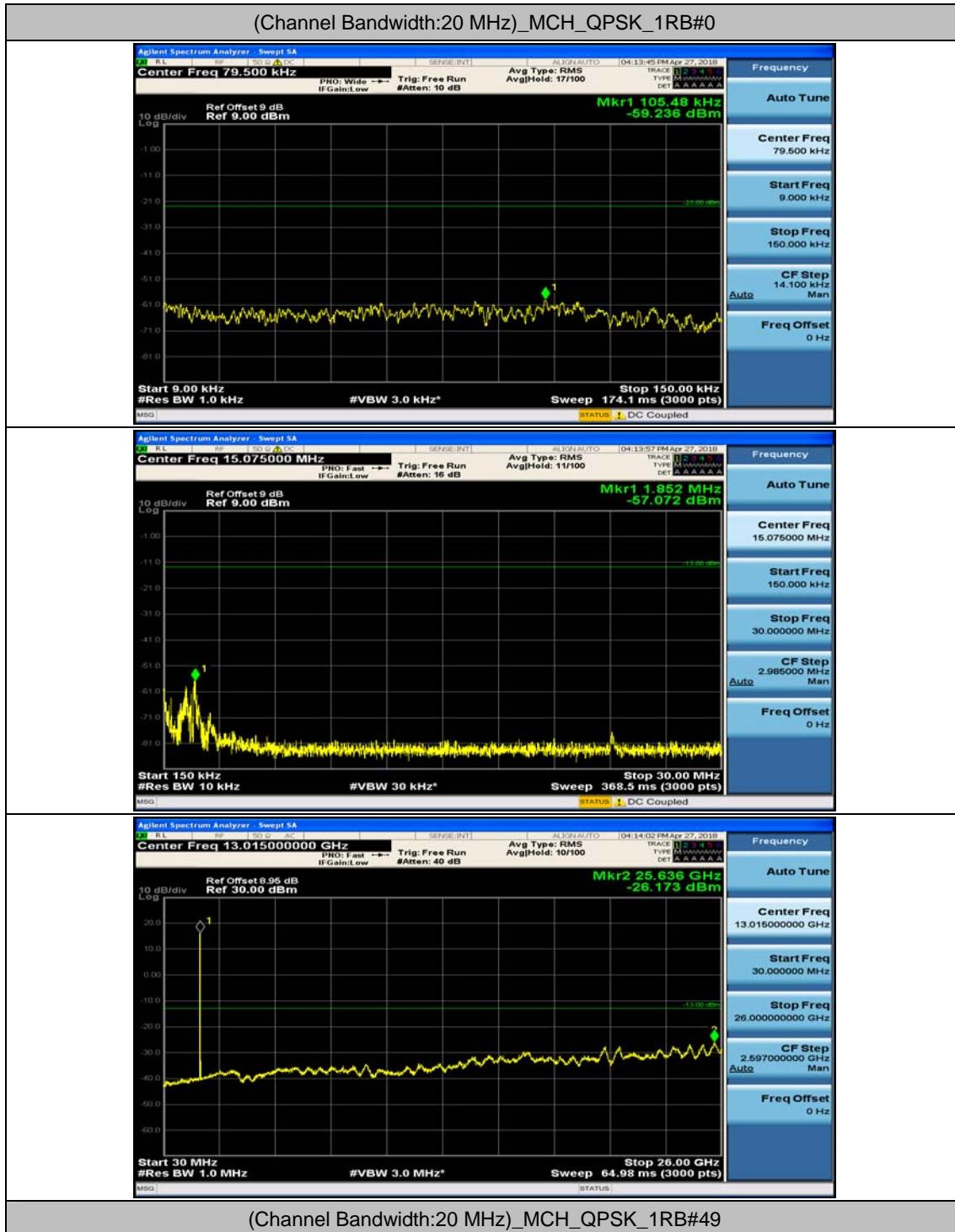


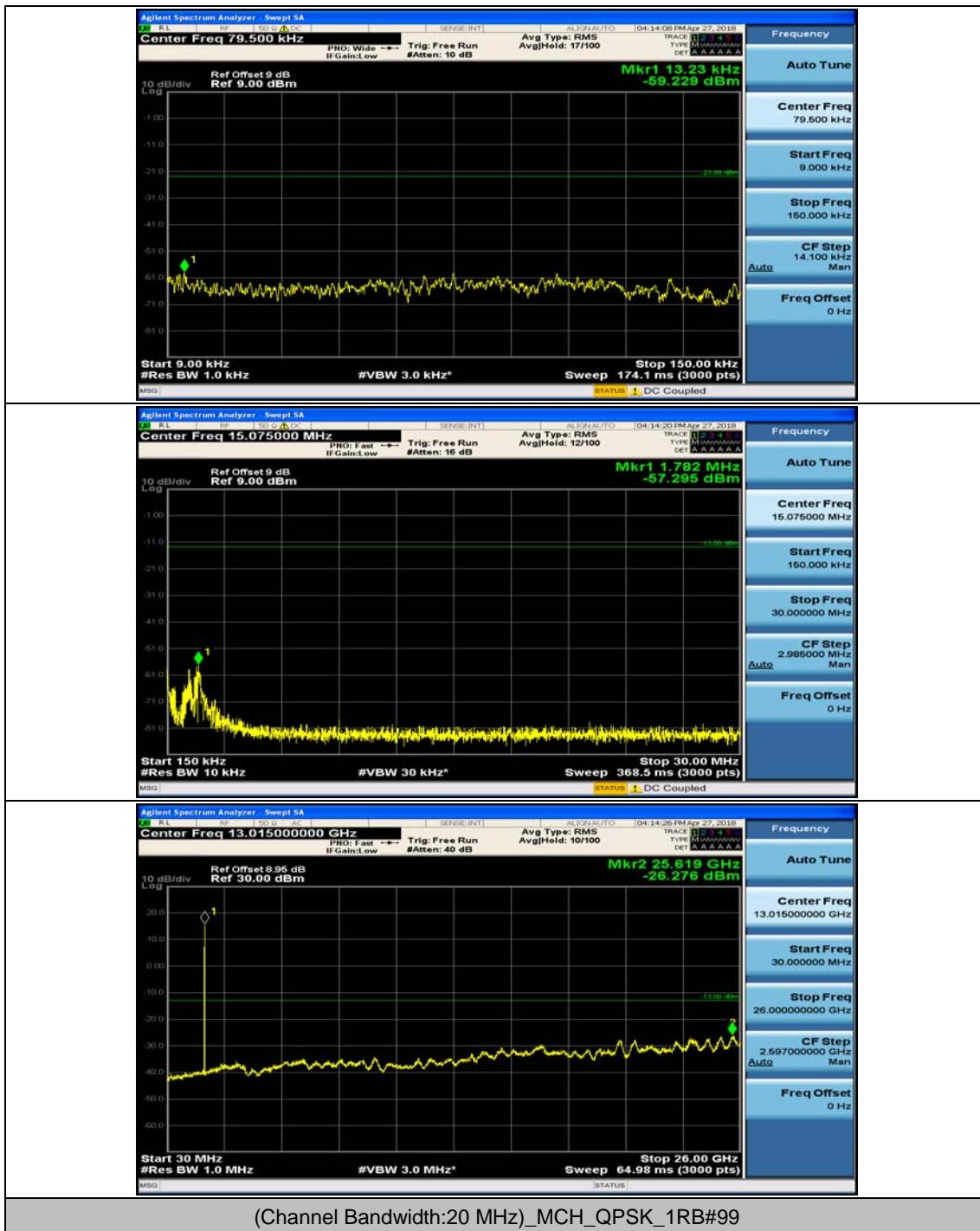
## Channel Bandwidth: 20 MHz

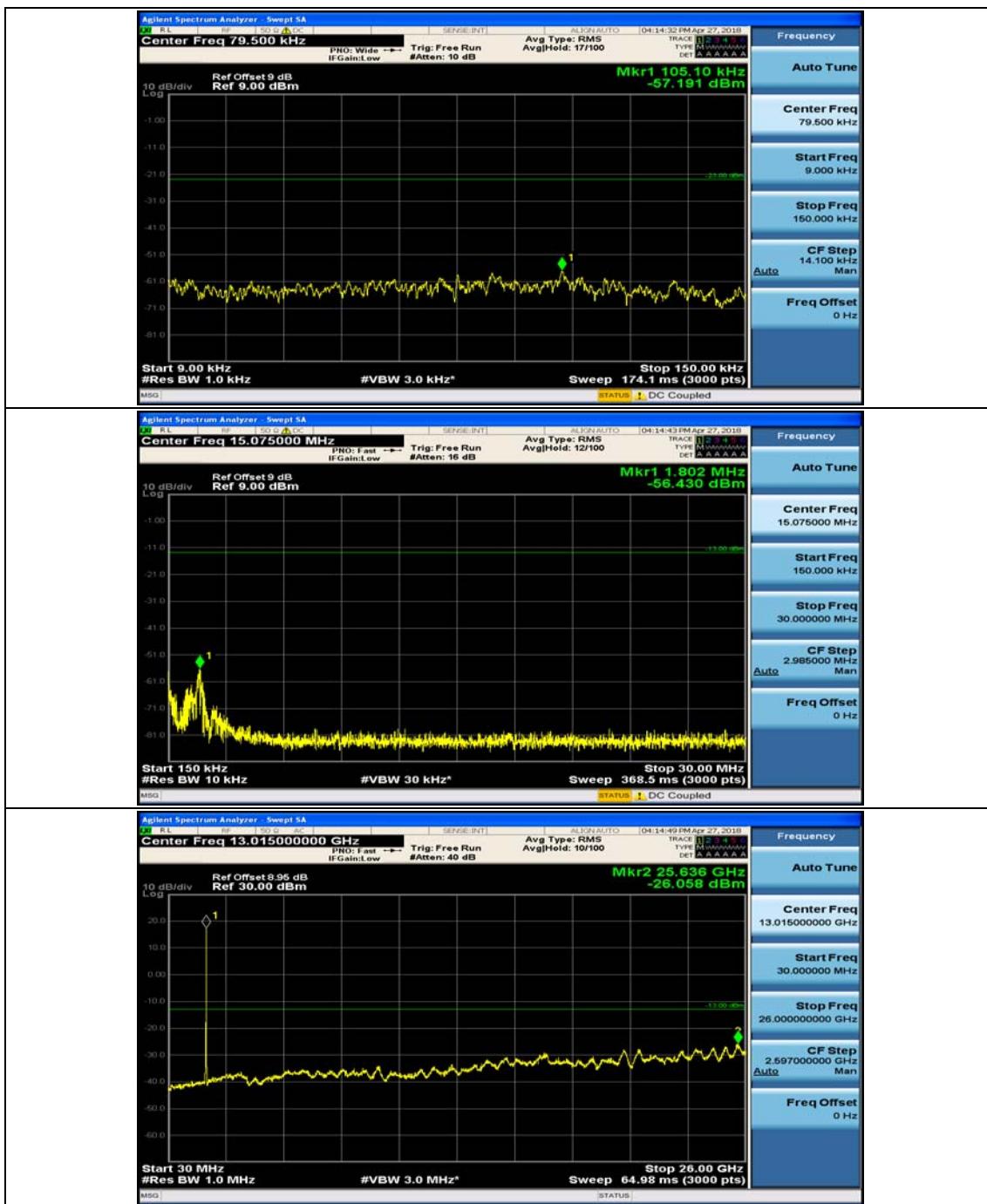


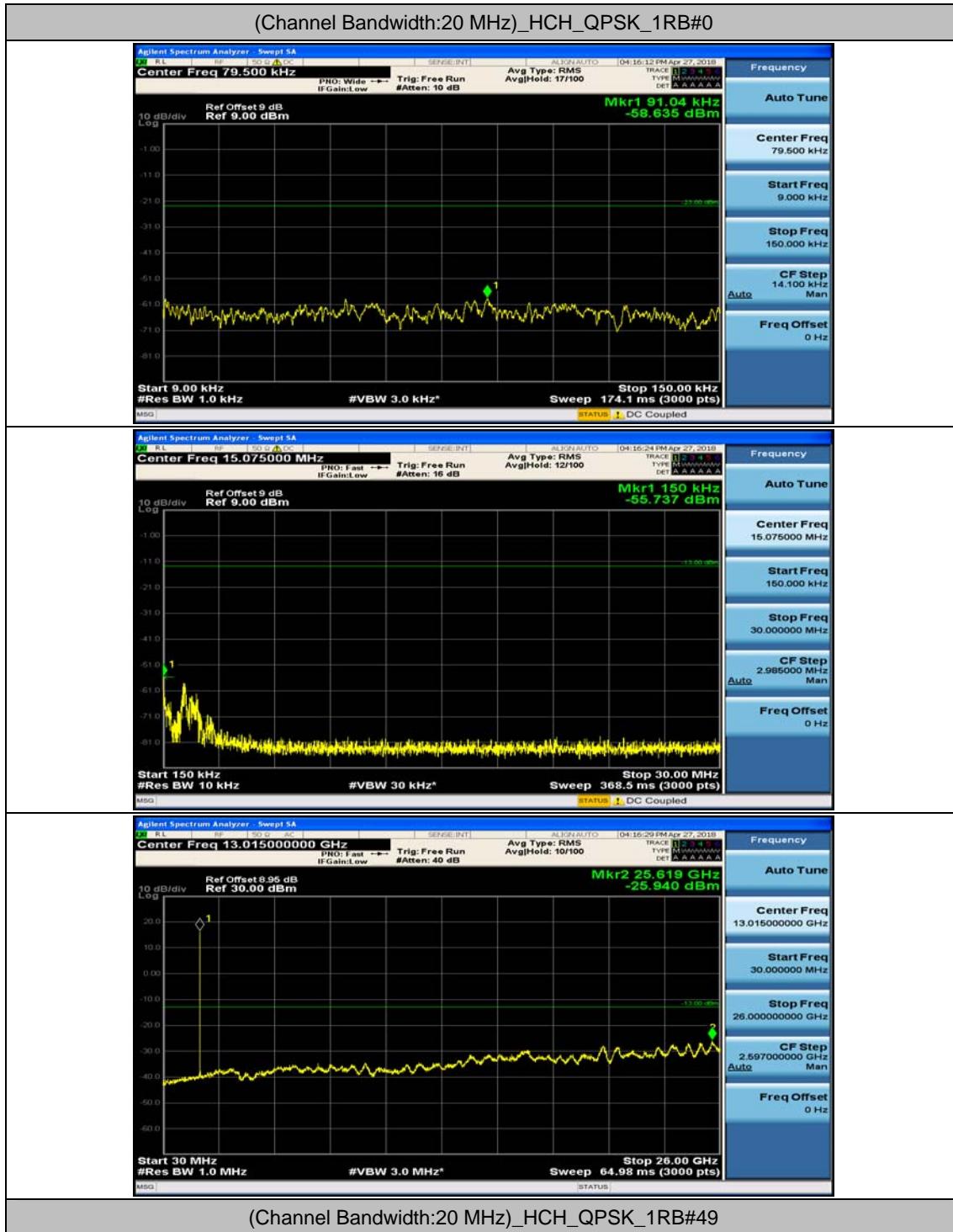


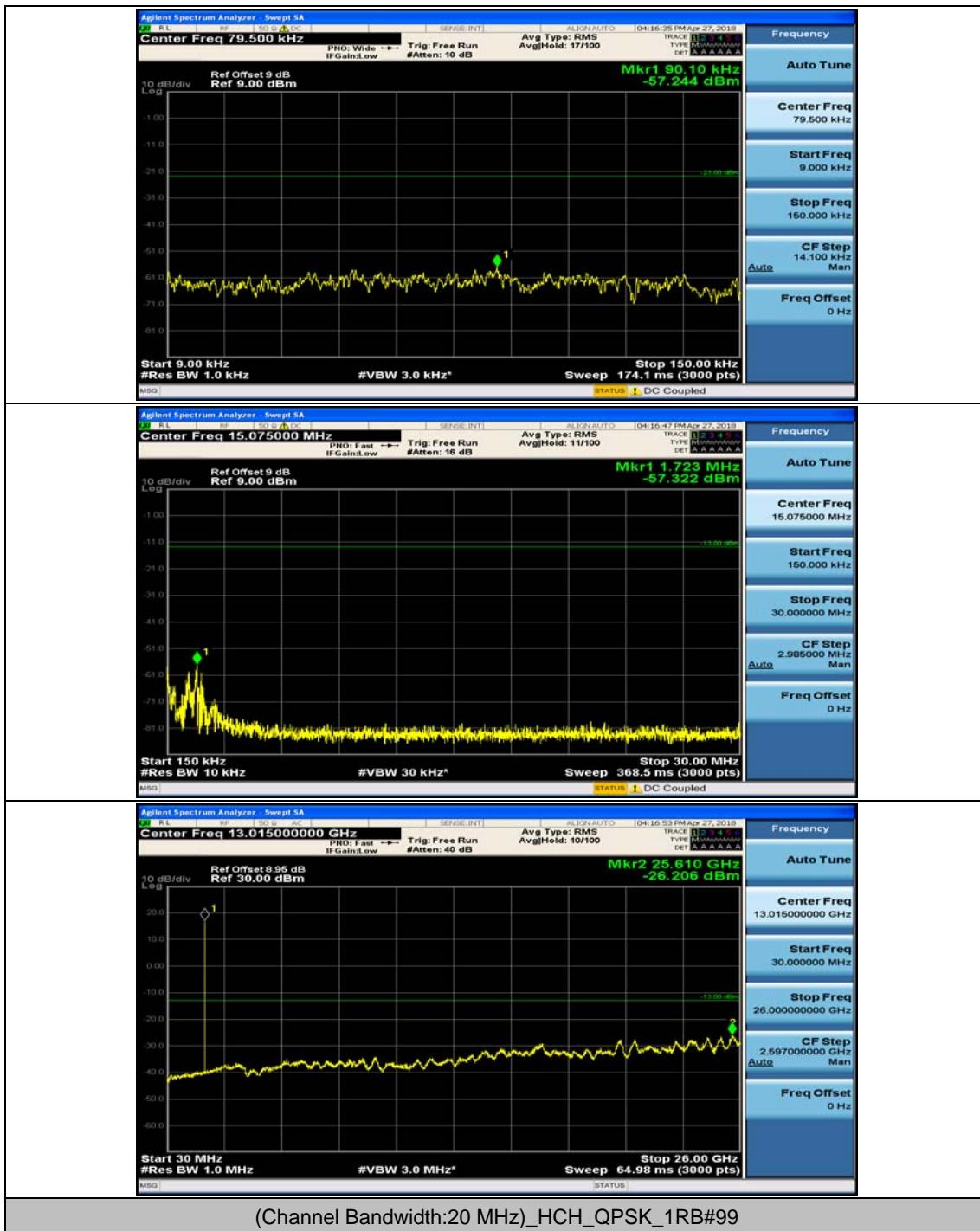


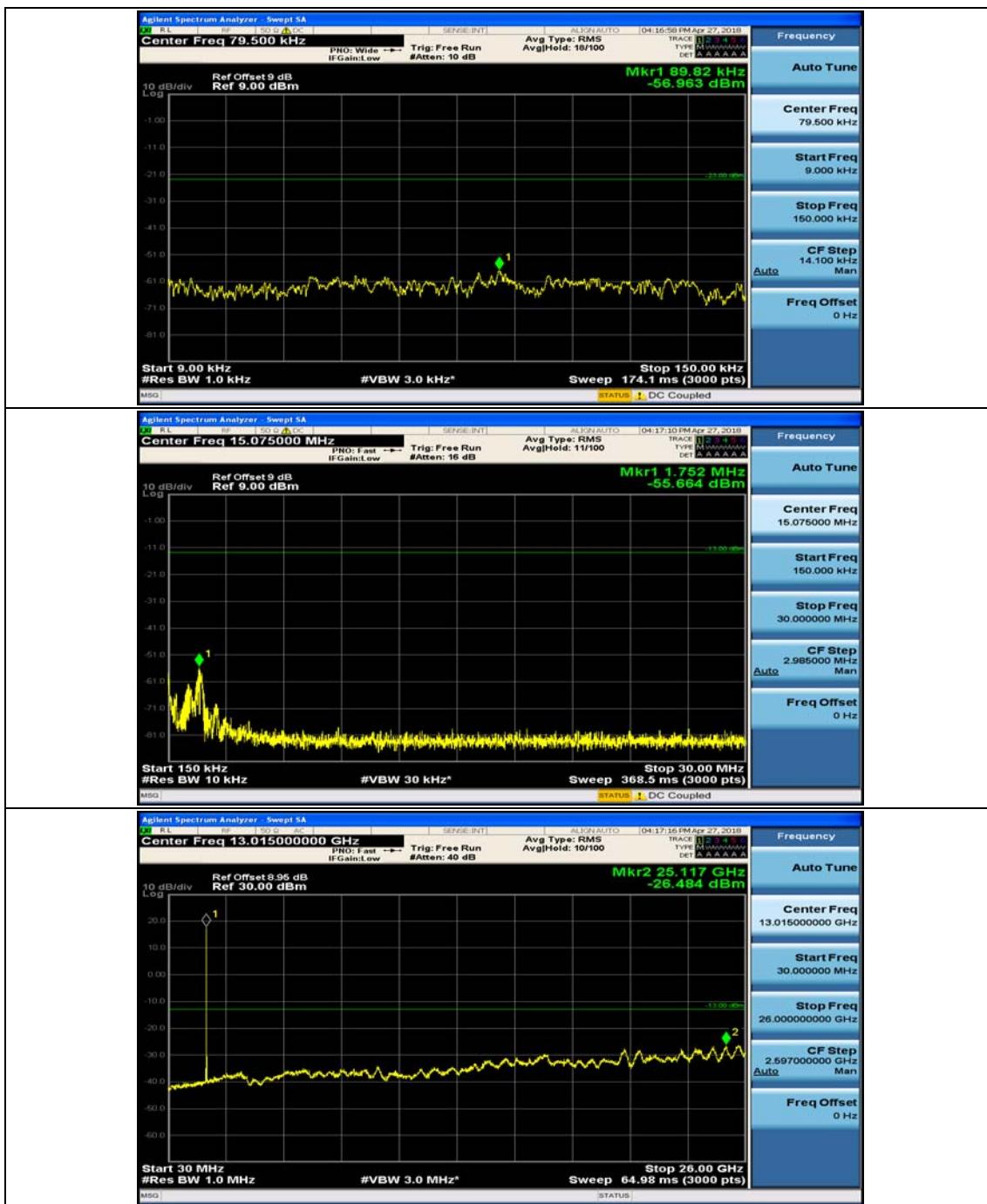


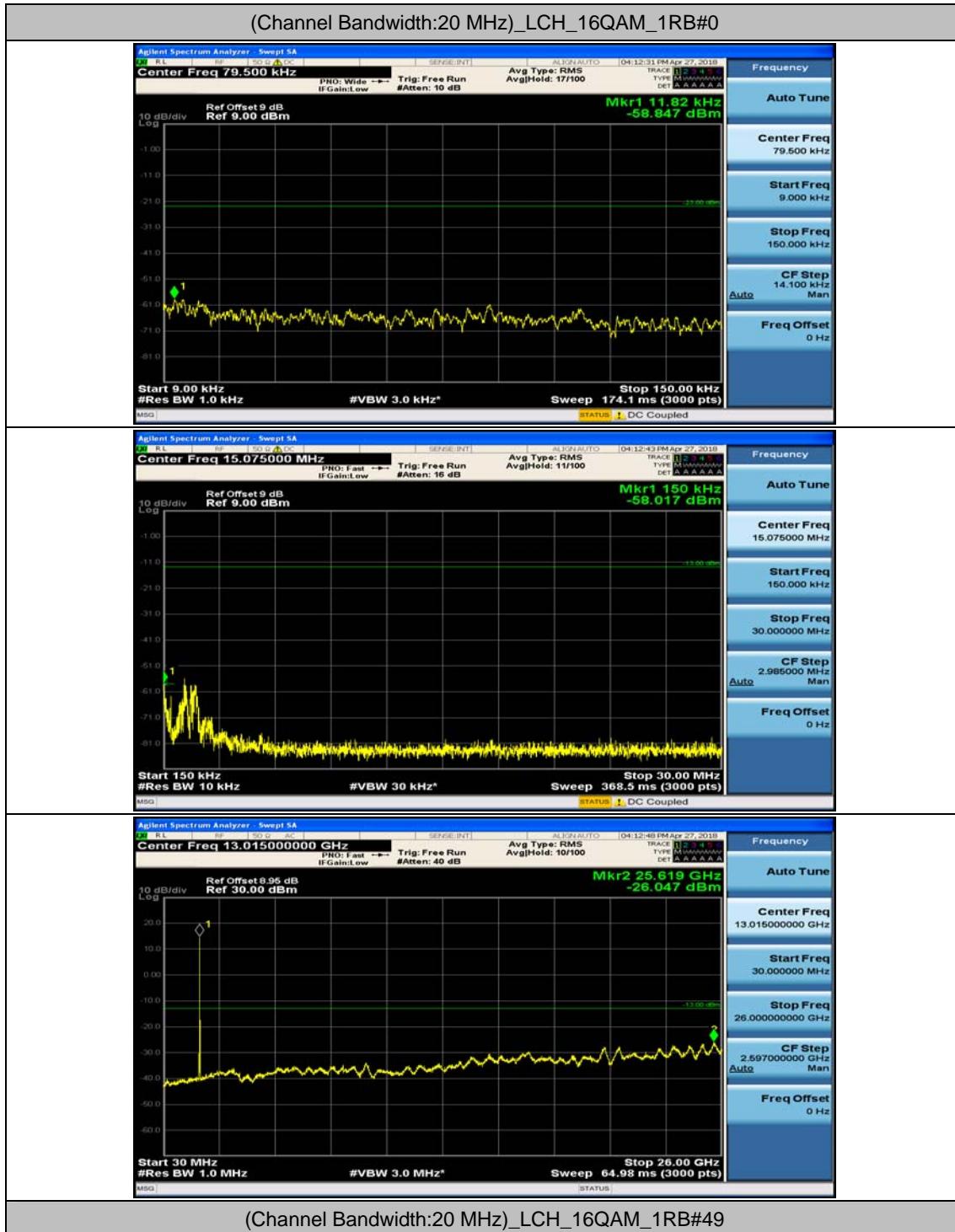


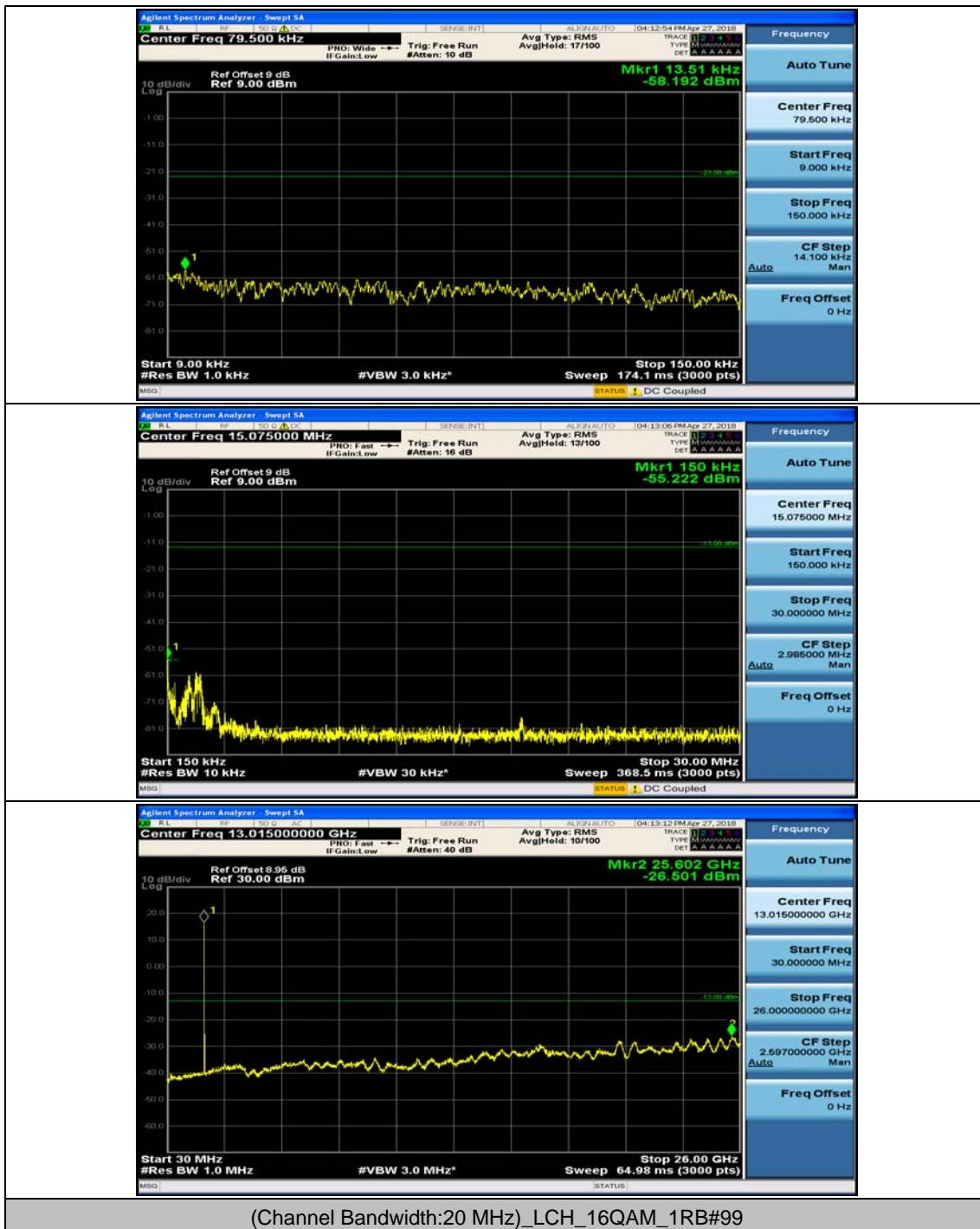


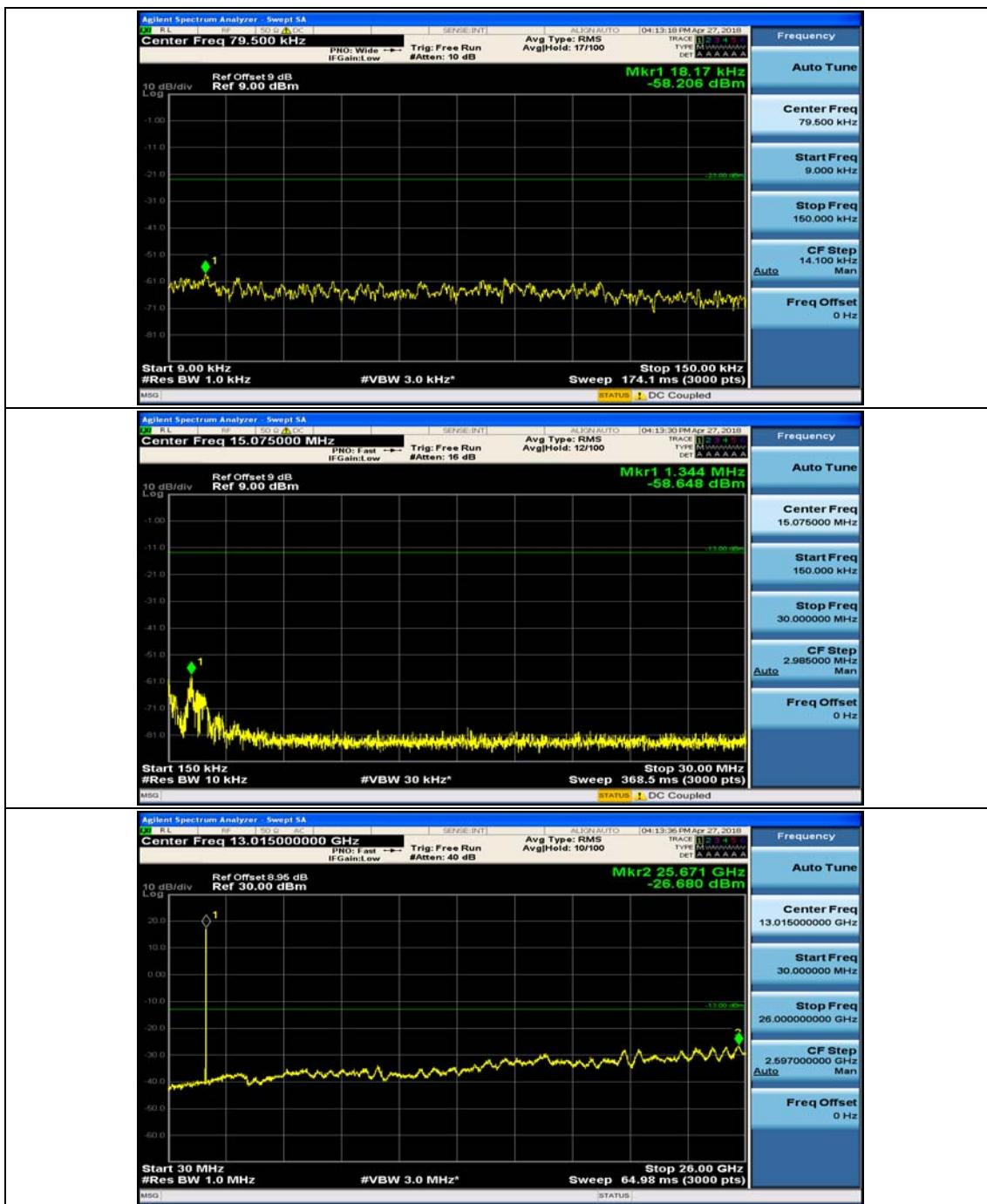


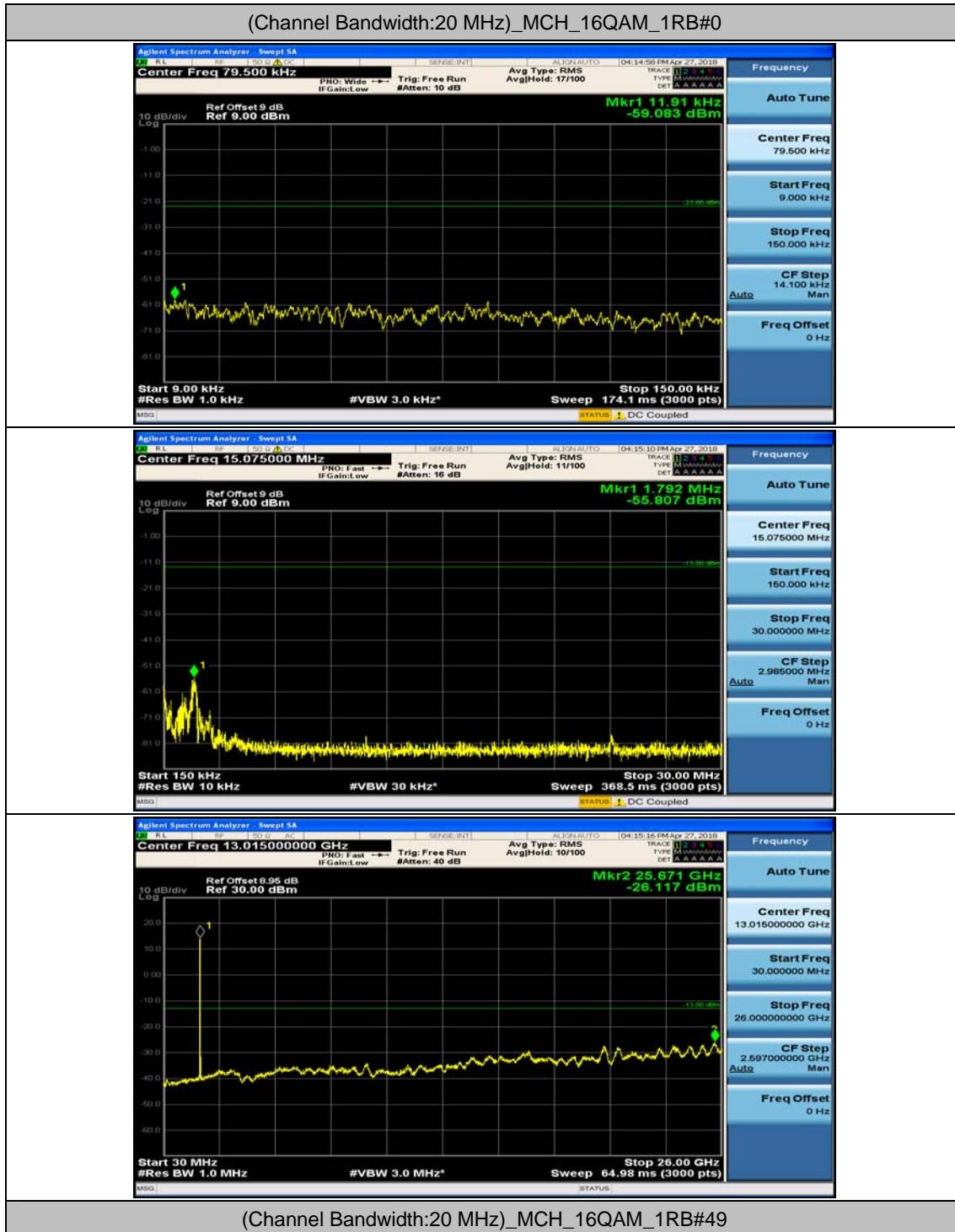


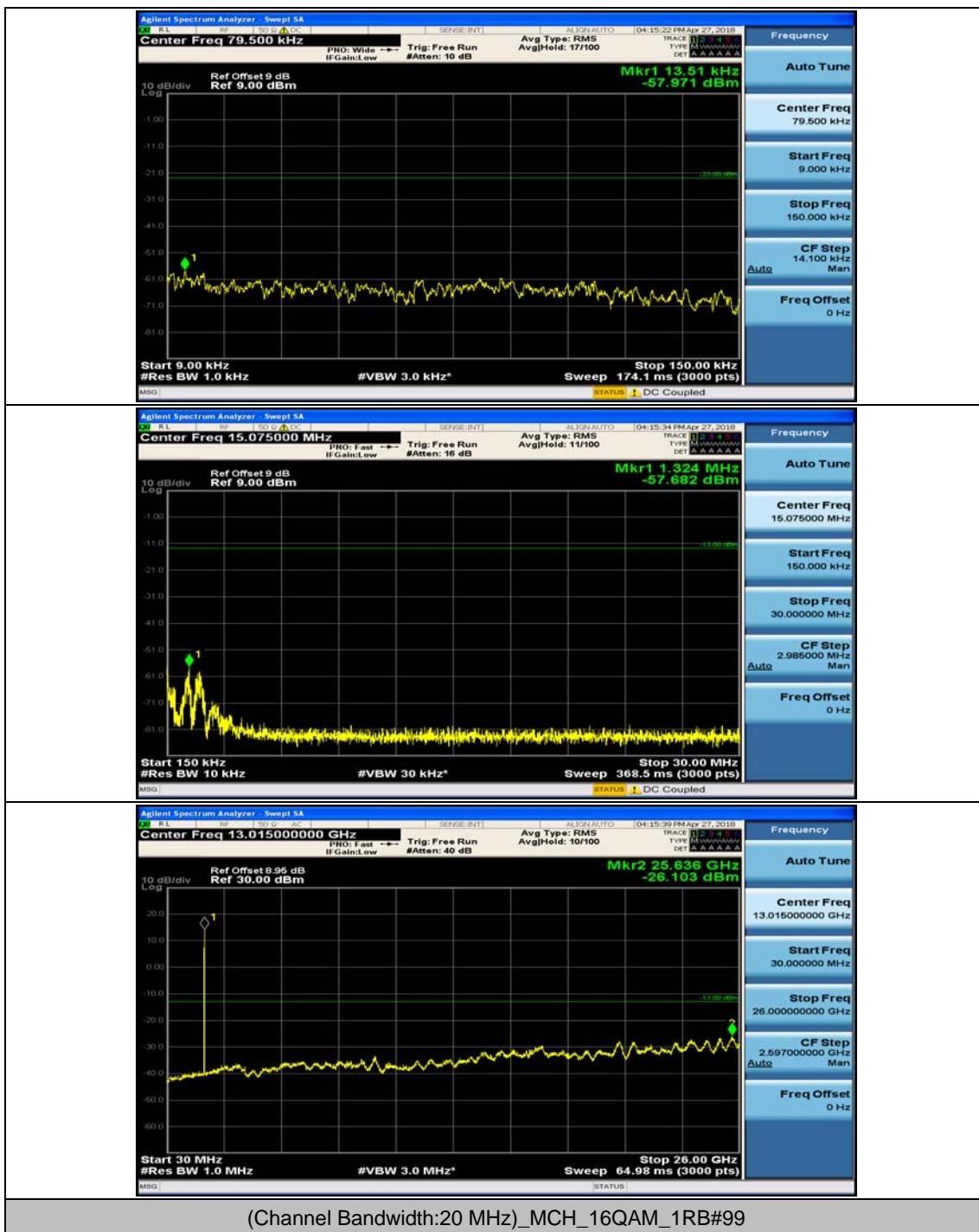


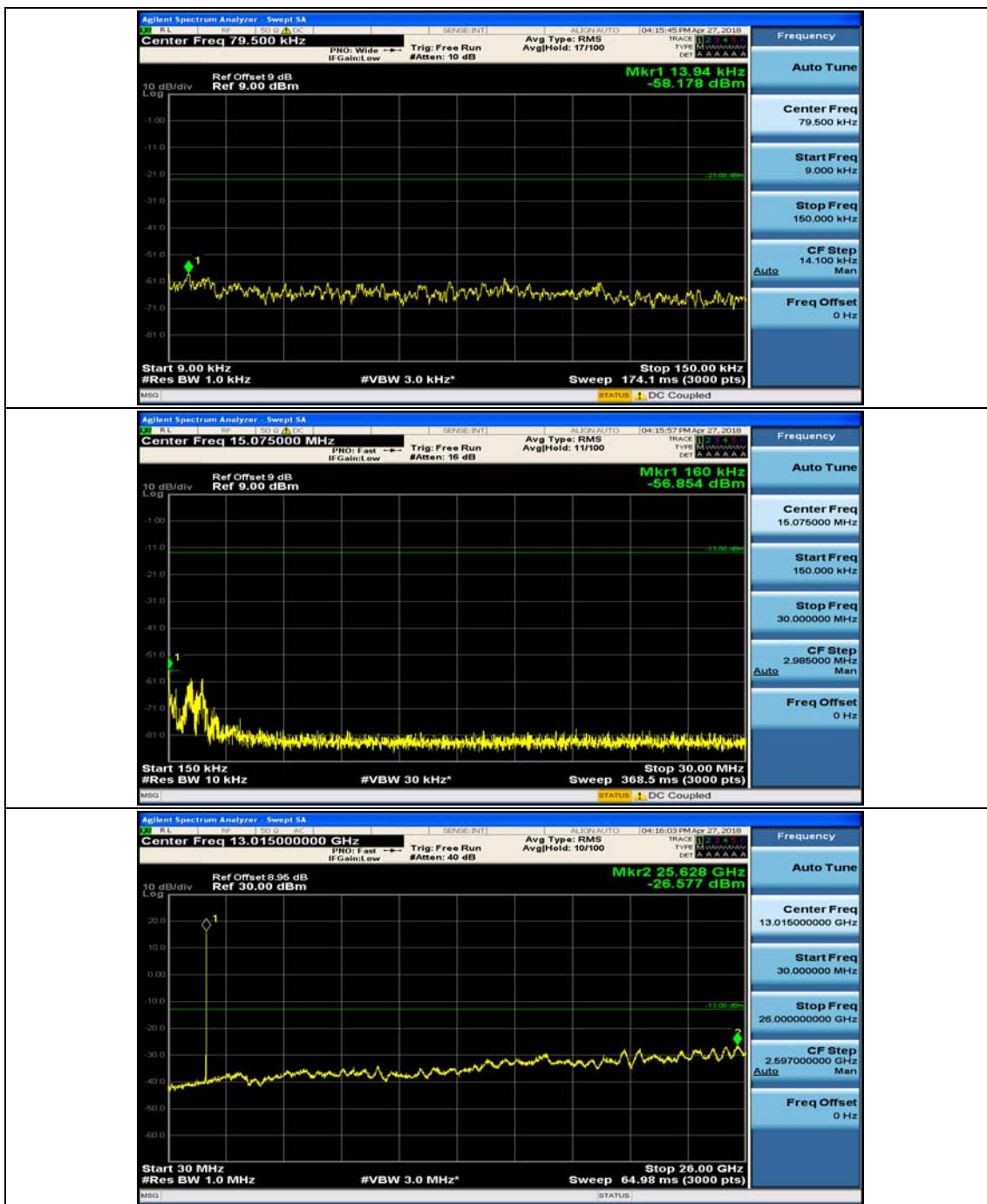


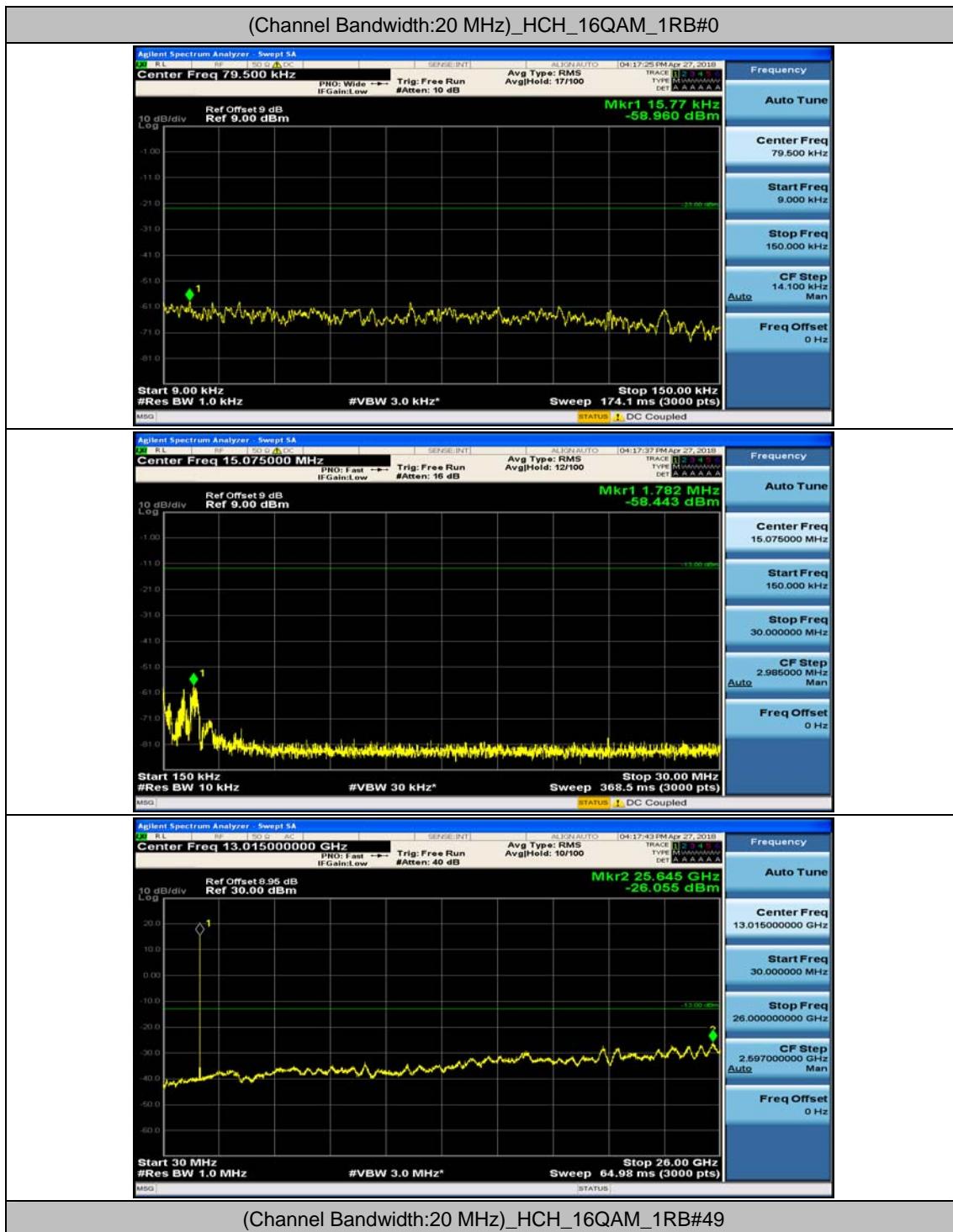


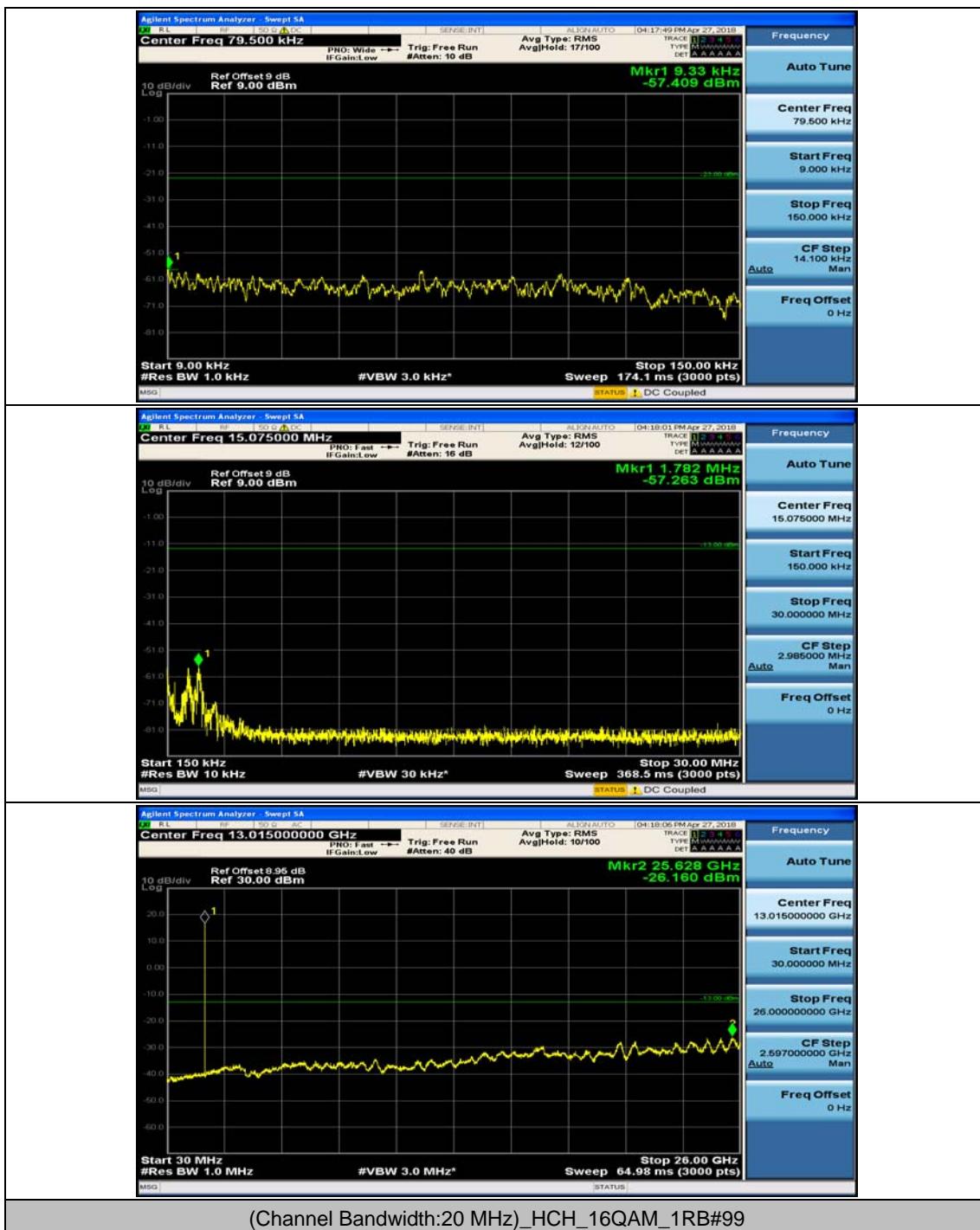


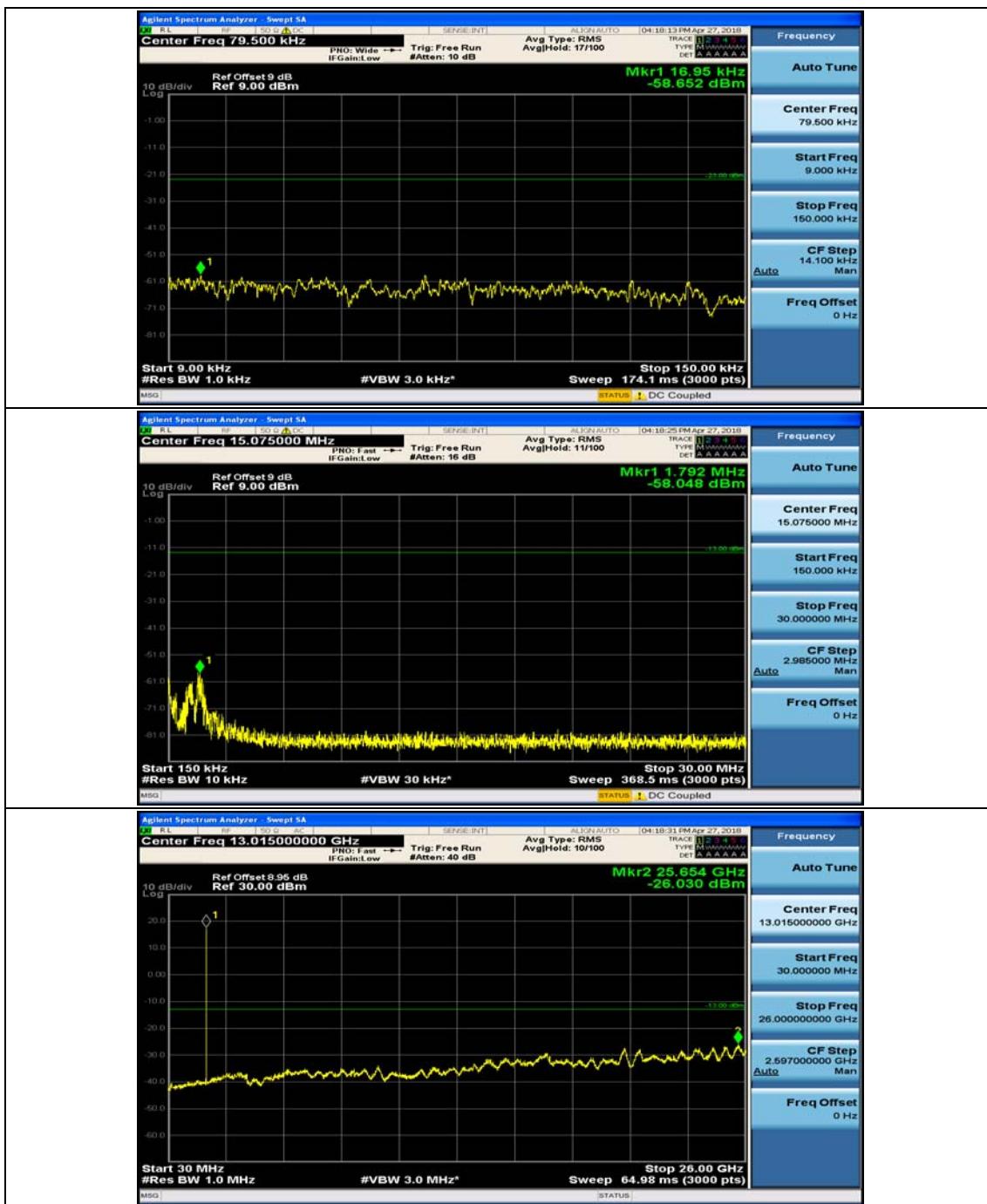












## Appendix F: Frequency Stability

### 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	-1.12	-0.000655	± 2.5	PASS
		VN	TN	4.12	0.002408	± 2.5	PASS
		VH	TN	-0.1	-0.000058	± 2.5	PASS
	MCH	VL	TN	-1.93	-0.001114	± 2.5	PASS
		VN	TN	-0.46	-0.000266	± 2.5	PASS
		VH	TN	2.87	0.001657	± 2.5	PASS
	HCH	VL	TN	2.54	0.001448	± 2.5	PASS
		VN	TN	-1.06	-0.000604	± 2.5	PASS
		VH	TN	0.32	0.000182	± 2.5	PASS
16QAM	LCH	VL	TN	4.22	0.002467	± 2.5	PASS
		VN	TN	-1.82	-0.001064	± 2.5	PASS
		VH	TN	0.15	0.000088	± 2.5	PASS
	MCH	VL	TN	4.31	0.002488	± 2.5	PASS
		VN	TN	3.19	0.001841	± 2.5	PASS
		VH	TN	3.66	0.002113	± 2.5	PASS
	HCH	VL	TN	4.8	0.002736	± 2.5	PASS
		VN	TN	-0.2	-0.000114	± 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	4.96	0.002899	± 2.5	PASS
		VN	-20	-1.09	-0.000637	± 2.5	PASS
		VN	-10	3.03	0.001771	± 2.5	PASS
		VN	0	2.26	0.001321	± 2.5	PASS
		VN	10	-0.9	-0.000526	± 2.5	PASS
		VN	20	-2	-0.001169	± 2.5	PASS
		VN	30	4.77	0.002788	± 2.5	PASS
		VN	40	-1.97	-0.001152	± 2.5	PASS
		VN	50	2.13	0.001245	± 2.5	PASS
	MCH	VN	-30	4.85	0.002799	± 2.5	PASS
		VN	-20	1.96	0.001131	± 2.5	PASS

	HCH	VN	-10	1.65	0.000952	$\pm 2.5$	PASS
		VN	0	4.88	0.002817	$\pm 2.5$	PASS
		VN	10	2.4	0.001385	$\pm 2.5$	PASS
		VN	20	-0.01	-0.000006	$\pm 2.5$	PASS
		VN	30	1.1	0.000635	$\pm 2.5$	PASS
		VN	40	3.36	0.001939	$\pm 2.5$	PASS
		VN	50	2.09	0.001206	$\pm 2.5$	PASS
		VN	-30	1.97	0.001123	$\pm 2.5$	PASS
		VN	-20	-0.39	-0.000222	$\pm 2.5$	PASS
		VN	-10	4.2	0.002394	$\pm 2.5$	PASS
16QAM	LCH	VN	0	-0.03	-0.000017	$\pm 2.5$	PASS
		VN	10	3.33	0.001898	$\pm 2.5$	PASS
		VN	20	3.26	0.001858	$\pm 2.5$	PASS
		VN	30	0.11	0.000063	$\pm 2.5$	PASS
		VN	40	1.36	0.000775	$\pm 2.5$	PASS
		VN	50	-1.76	-0.001003	$\pm 2.5$	PASS
		VN	-30	0.31	0.000181	$\pm 2.5$	PASS
		VN	-20	4.97	0.002905	$\pm 2.5$	PASS
		VN	-10	4.92	0.002876	$\pm 2.5$	PASS
	MCH	VN	0	1.89	0.001105	$\pm 2.5$	PASS
		VN	10	3.27	0.001911	$\pm 2.5$	PASS
		VN	20	-1.46	-0.000853	$\pm 2.5$	PASS
		VN	30	-0.12	-0.000070	$\pm 2.5$	PASS
		VN	40	3.81	0.002227	$\pm 2.5$	PASS
		VN	50	3.27	0.001911	$\pm 2.5$	PASS
		VN	-30	1.93	0.001100	$\pm 2.5$	PASS
		VN	-20	1.33	0.000758	$\pm 2.5$	PASS
		VN	-10	0.64	0.000365	$\pm 2.5$	PASS
		VN	0	-1.97	-0.001123	$\pm 2.5$	PASS
	HCH	VN	10	2.36	0.001345	$\pm 2.5$	PASS
		VN	20	0.92	0.000524	$\pm 2.5$	PASS
		VN	30	-0.25	-0.000143	$\pm 2.5$	PASS
		VN	40	-0.84	-0.000479	$\pm 2.5$	PASS
		VN	50	2.05	0.001169	$\pm 2.5$	PASS
		VN	-30	-1.33	-0.000758	$\pm 2.5$	PASS
		VN	-20	4.02	0.002292	$\pm 2.5$	PASS

		VN	40	1.39	0.000792	$\pm 2.5$	PASS
		VN	50	1.55	0.000884	$\pm 2.5$	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	3.83	0.002238	$\pm 2.5$	PASS
		VN	TN	-1.93	-0.001128	$\pm 2.5$	PASS
		VH	TN	1.95	0.001139	$\pm 2.5$	PASS
	MCH	VL	TN	-1.36	-0.000785	$\pm 2.5$	PASS
		VN	TN	0.88	0.000508	$\pm 2.5$	PASS
		VH	TN	3.08	0.001778	$\pm 2.5$	PASS
	HCH	VL	TN	-0.76	-0.000433	$\pm 2.5$	PASS
		VN	TN	1.76	0.001004	$\pm 2.5$	PASS
		VH	TN	2.44	0.001392	$\pm 2.5$	PASS
16QAM	LCH	VL	TN	-0.59	-0.000345	$\pm 2.5$	PASS
		VN	TN	4.28	0.002501	$\pm 2.5$	PASS
		VH	TN	4.44	0.002594	$\pm 2.5$	PASS
	MCH	VL	TN	3.5	0.002020	$\pm 2.5$	PASS
		VN	TN	-0.29	-0.000167	$\pm 2.5$	PASS
		VH	TN	0.39	0.000225	$\pm 2.5$	PASS
	HCH	VL	TN	-1.36	-0.000776	$\pm 2.5$	PASS
		VN	TN	-0.89	-0.000508	$\pm 2.5$	PASS
		VH	TN	4.29	0.002447	$\pm 2.5$	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	1.28	0.000748	$\pm 2.5$	PASS
		VN	-20	2.29	0.001338	$\pm 2.5$	PASS
		VN	-10	3.38	0.001975	$\pm 2.5$	PASS
		VN	0	3	0.001753	$\pm 2.5$	PASS
		VN	10	2.87	0.001677	$\pm 2.5$	PASS
		VN	20	0.92	0.000538	$\pm 2.5$	PASS
		VN	30	-0.81	-0.000473	$\pm 2.5$	PASS
		VN	40	2.88	0.001683	$\pm 2.5$	PASS
		VN	50	3.41	0.001992	$\pm 2.5$	PASS
	MCH	VN	-30	1.61	0.000929	$\pm 2.5$	PASS
		VN	-20	2.15	0.001241	$\pm 2.5$	PASS
		VN	-10	1.06	0.000612	$\pm 2.5$	PASS

		VN	0	1.55	0.000895	$\pm 2.5$	PASS
		VN	10	-1.18	-0.000681	$\pm 2.5$	PASS
		VN	20	4.12	0.002378	$\pm 2.5$	PASS
		VN	30	2.64	0.001524	$\pm 2.5$	PASS
		VN	40	2.67	0.001541	$\pm 2.5$	PASS
		VN	50	2.37	0.001368	$\pm 2.5$	PASS
		VN	-30	1.19	0.000679	$\pm 2.5$	PASS
		VN	-20	-1.6	-0.000912	$\pm 2.5$	PASS
		VN	-10	-1.18	-0.000673	$\pm 2.5$	PASS
		VN	0	-0.9	-0.000513	$\pm 2.5$	PASS
		VN	10	-0.71	-0.000405	$\pm 2.5$	PASS
		VN	20	4.56	0.002601	$\pm 2.5$	PASS
		VN	30	3.22	0.001836	$\pm 2.5$	PASS
		VN	40	-0.02	-0.000011	$\pm 2.5$	PASS
		VN	50	-0.44	-0.000251	$\pm 2.5$	PASS
	LCH	VN	-30	0.47	0.000271	$\pm 2.5$	PASS
		VN	-20	3.68	0.002124	$\pm 2.5$	PASS
		VN	-10	-0.5	-0.000289	$\pm 2.5$	PASS
		VN	0	4.46	0.002574	$\pm 2.5$	PASS
		VN	10	1.31	0.000756	$\pm 2.5$	PASS
		VN	20	4.84	0.002794	$\pm 2.5$	PASS
		VN	30	3.1	0.001789	$\pm 2.5$	PASS
		VN	40	4.06	0.002343	$\pm 2.5$	PASS
		VN	50	-1.76	-0.001016	$\pm 2.5$	PASS
	MCH	VN	-30	3.75	0.002139	$\pm 2.5$	PASS
		VN	-20	0.38	0.000217	$\pm 2.5$	PASS
		VN	-10	0.2	0.000114	$\pm 2.5$	PASS
		VN	0	-1.61	-0.000918	$\pm 2.5$	PASS
		VN	10	2.25	0.001283	$\pm 2.5$	PASS
		VN	20	2.45	0.001397	$\pm 2.5$	PASS
		VN	30	4.65	0.002652	$\pm 2.5$	PASS
		VN	40	1.96	0.001118	$\pm 2.5$	PASS
		VN	50	3.67	0.002093	$\pm 2.5$	PASS
	HCH	VN	-30	2.58	0.001471	$\pm 2.5$	PASS
		VN	-20	3.87	0.002207	$\pm 2.5$	PASS
		VN	-10	4.1	0.002338	$\pm 2.5$	PASS
		VN	0	4.35	0.002481	$\pm 2.5$	PASS
		VN	10	3.53	0.002013	$\pm 2.5$	PASS
		VN	20	-0.98	-0.000559	$\pm 2.5$	PASS
		VN	30	1.14	0.000650	$\pm 2.5$	PASS
		VN	40	4.57	0.002606	$\pm 2.5$	PASS

		VN	50	-0.6	-0.000342	$\pm 2.5$	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	2.11	0.001232	$\pm 2.5$	PASS
		VN	TN	2.44	0.001425	$\pm 2.5$	PASS
		VH	TN	4.57	0.002669	$\pm 2.5$	PASS
	MCH	VL	TN	1.43	0.000825	$\pm 2.5$	PASS
		VN	TN	-0.04	-0.000023	$\pm 2.5$	PASS
		VH	TN	-1.3	-0.000750	$\pm 2.5$	PASS
	HCH	VL	TN	3.66	0.002088	$\pm 2.5$	PASS
		VN	TN	4.89	0.002790	$\pm 2.5$	PASS
		VH	TN	-1.98	-0.001130	$\pm 2.5$	PASS
16QAM	LCH	VL	TN	1.94	0.001133	$\pm 2.5$	PASS
		VN	TN	-1.53	-0.000893	$\pm 2.5$	PASS
		VH	TN	-0.98	-0.000572	$\pm 2.5$	PASS
	MCH	VL	TN	-0.66	-0.000381	$\pm 2.5$	PASS
		VN	TN	-0.92	-0.000531	$\pm 2.5$	PASS
		VH	TN	3.45	0.001991	$\pm 2.5$	PASS
	HCH	VL	TN	3.45	0.001969	$\pm 2.5$	PASS
		VN	TN	4.86	0.002773	$\pm 2.5$	PASS
		VH	TN	2.12	0.001210	$\pm 2.5$	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-0.74	-0.000432	$\pm 2.5$	PASS
		VN	-20	3.68	0.002149	$\pm 2.5$	PASS
		VN	-10	-1.16	-0.000677	$\pm 2.5$	PASS
		VN	0	0.18	0.000105	$\pm 2.5$	PASS
		VN	10	3.13	0.001828	$\pm 2.5$	PASS
		VN	20	2.09	0.001220	$\pm 2.5$	PASS
		VN	30	0.3	0.000175	$\pm 2.5$	PASS
		VN	40	0.89	0.000520	$\pm 2.5$	PASS
		VN	50	-0.84	-0.000491	$\pm 2.5$	PASS
	MCH	VN	-30	1.15	0.000664	$\pm 2.5$	PASS
		VN	-20	1.27	0.000733	$\pm 2.5$	PASS
		VN	-10	-0.09	-0.000052	$\pm 2.5$	PASS
		VN	0	1.52	0.000877	$\pm 2.5$	PASS

		VN	10	0.88	0.000508	$\pm 2.5$	PASS
		VN	20	1.42	0.000820	$\pm 2.5$	PASS
		VN	30	3.2	0.001847	$\pm 2.5$	PASS
		VN	40	0.08	0.000046	$\pm 2.5$	PASS
		VN	50	-1.78	-0.001027	$\pm 2.5$	PASS
	HCH	VN	-30	2.75	0.001569	$\pm 2.5$	PASS
		VN	-20	0.49	0.000257	$\pm 2.5$	PASS
		VN	-10	4.98	0.002611	$\pm 2.5$	PASS
		VN	0	-0.09	-0.000047	$\pm 2.5$	PASS
		VN	10	3.31	0.001735	$\pm 2.5$	PASS
		VN	20	1.17	0.000613	$\pm 2.5$	PASS
		VN	30	3.59	0.001882	$\pm 2.5$	PASS
		VN	40	-1.91	-0.001001	$\pm 2.5$	PASS
		VN	50	1.75	0.000917	$\pm 2.5$	PASS
16QAM	LCH	VN	-30	-1.21	-0.000698	$\pm 2.5$	PASS
		VN	-20	0.05	0.000029	$\pm 2.5$	PASS
		VN	-10	4.4	0.002540	$\pm 2.5$	PASS
		VN	0	5	0.002886	$\pm 2.5$	PASS
		VN	10	2.05	0.001183	$\pm 2.5$	PASS
		VN	20	3.82	0.002205	$\pm 2.5$	PASS
		VN	30	0.24	0.000139	$\pm 2.5$	PASS
		VN	40	-0.53	-0.000306	$\pm 2.5$	PASS
		VN	50	-1.16	-0.000670	$\pm 2.5$	PASS
	MCH	VN	-30	-1.79	-0.001021	$\pm 2.5$	PASS
		VN	-20	3.78	0.002157	$\pm 2.5$	PASS
		VN	-10	1.16	0.000662	$\pm 2.5$	PASS
		VN	0	1.92	0.001096	$\pm 2.5$	PASS
		VN	10	1.28	0.000730	$\pm 2.5$	PASS
		VN	20	3.72	0.002123	$\pm 2.5$	PASS
		VN	30	1.3	0.000742	$\pm 2.5$	PASS
		VN	40	4.18	0.002385	$\pm 2.5$	PASS
		VN	50	3.96	0.002260	$\pm 2.5$	PASS
	HCH	VN	-30	1.84	0.000965	$\pm 2.5$	PASS
		VN	-20	1.67	0.000875	$\pm 2.5$	PASS
		VN	-10	4.71	0.002469	$\pm 2.5$	PASS
		VN	0	2.84	0.001489	$\pm 2.5$	PASS
		VN	10	0.69	0.000362	$\pm 2.5$	PASS
		VN	20	2.47	0.001295	$\pm 2.5$	PASS
		VN	30	2.27	0.001190	$\pm 2.5$	PASS
		VN	40	0.9	0.000472	$\pm 2.5$	PASS
		VN	50	3.13	0.001641	$\pm 2.5$	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	0.58	0.000338	± 2.5	PASS
		VN	TN	0.04	0.000023	± 2.5	PASS
		VH	TN	-1.82	-0.001061	± 2.5	PASS
	MCH	VL	TN	2.59	0.001495	± 2.5	PASS
		VN	TN	1.05	0.000606	± 2.5	PASS
		VH	TN	-0.78	-0.000450	± 2.5	PASS
	HCH	VL	TN	0.1	0.000057	± 2.5	PASS
		VN	TN	0.52	0.000297	± 2.5	PASS
		VH	TN	2.96	0.001691	± 2.5	PASS
16QAM	LCH	VL	TN	1.06	0.000618	± 2.5	PASS
		VN	TN	0.07	0.000041	± 2.5	PASS
		VH	TN	3.66	0.002134	± 2.5	PASS
	MCH	VL	TN	-0.02	-0.000012	± 2.5	PASS
		VN	TN	-0.9	-0.000519	± 2.5	PASS
		VH	TN	4.15	0.002395	± 2.5	PASS
	HCH	VL	TN	3.28	0.001874	± 2.5	PASS
		VN	TN	0.95	0.000543	± 2.5	PASS
		VH	TN	4.62	0.002640	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
16QAM	LCH	VN	-30	-0.71	-0.000414	± 2.5	PASS
		VN	-20	-1.53	-0.000892	± 2.5	PASS
		VN	-10	0.56	0.000327	± 2.5	PASS
		VN	0	-1.04	-0.000606	± 2.5	PASS
		VN	10	2.16	0.001259	± 2.5	PASS
		VN	20	3.3	0.001924	± 2.5	PASS
		VN	30	-1.74	-0.001015	± 2.5	PASS
		VN	40	3.2	0.001866	± 2.5	PASS
		VN	50	1.74	0.001015	± 2.5	PASS
	MCH	VN	-30	4.28	0.002470	± 2.5	PASS
		VN	-20	2.18	0.001258	± 2.5	PASS
		VN	-10	4.78	0.002759	± 2.5	PASS
		VN	0	-0.87	-0.000502	± 2.5	PASS
		VN	10	-1.58	-0.000912	± 2.5	PASS
		VN	20	1.79	0.001033	± 2.5	PASS

		VN	30	-0.53	-0.000306	$\pm 2.5$	PASS
		VN	40	0.51	0.000294	$\pm 2.5$	PASS
		VN	50	2.67	0.001541	$\pm 2.5$	PASS
	HCH	VN	-30	2.21	0.001263	$\pm 2.5$	PASS
		VN	-20	-0.43	-0.000246	$\pm 2.5$	PASS
		VN	-10	-1.04	-0.000594	$\pm 2.5$	PASS
		VN	0	3.89	0.002223	$\pm 2.5$	PASS
		VN	10	3.38	0.001931	$\pm 2.5$	PASS
		VN	20	1.02	0.000583	$\pm 2.5$	PASS
		VN	30	2.06	0.001177	$\pm 2.5$	PASS
	LCH	VN	40	3.4	0.001943	$\pm 2.5$	PASS
		VN	50	-0.8	-0.000457	$\pm 2.5$	PASS
	MCH	VN	-30	4.2	0.002424	$\pm 2.5$	PASS
		VN	-20	0.64	0.000369	$\pm 2.5$	PASS
		VN	-10	3.21	0.001853	$\pm 2.5$	PASS
		VN	0	-0.39	-0.000225	$\pm 2.5$	PASS
		VN	10	4.04	0.002332	$\pm 2.5$	PASS
		VN	20	-0.41	-0.000237	$\pm 2.5$	PASS
		VN	30	4.34	0.002505	$\pm 2.5$	PASS
		VN	40	3.3	0.001905	$\pm 2.5$	PASS
		VN	50	0.43	0.000248	$\pm 2.5$	PASS
	HCH	VN	-30	3.76	0.002149	$\pm 2.5$	PASS
		VN	-20	-1.55	-0.000886	$\pm 2.5$	PASS
		VN	-10	-0.2	-0.000114	$\pm 2.5$	PASS
		VN	0	3.8	0.002171	$\pm 2.5$	PASS
		VN	10	-1.39	-0.000794	$\pm 2.5$	PASS
		VN	20	1.63	0.000931	$\pm 2.5$	PASS
		VN	30	4.24	0.002423	$\pm 2.5$	PASS
		VN	40	1.62	0.000926	$\pm 2.5$	PASS
		VN	50	4.88	0.002789	$\pm 2.5$	PASS
		VN	-30	3.1	0.001771	$\pm 2.5$	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	-0.89	-0.000518	± 2.5	PASS
		VN	TN	-0.49	-0.000285	± 2.5	PASS
		VH	TN	0.12	0.000070	± 2.5	PASS
	MCH	VL	TN	2.37	0.001368	± 2.5	PASS
		VN	TN	0.17	0.000098	± 2.5	PASS
		VH	TN	-0.04	-0.000023	± 2.5	PASS
	HCH	VL	TN	2.23	0.001276	± 2.5	PASS
		VN	TN	0.79	0.000452	± 2.5	PASS
		VH	TN	-1.99	-0.001139	± 2.5	PASS
16QAM	LCH	VL	TN	2.88	0.001677	± 2.5	PASS
		VN	TN	0.49	0.000285	± 2.5	PASS
		VH	TN	0.51	0.000297	± 2.5	PASS
	MCH	VL	TN	3.71	0.002141	± 2.5	PASS
		VN	TN	3.6	0.002078	± 2.5	PASS
		VH	TN	3.27	0.001887	± 2.5	PASS
	HCH	VL	TN	-1.57	-0.000898	± 2.5	PASS
		VN	TN	4.97	0.002844	± 2.5	PASS
		VH	TN	0.01	0.000006	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	3.41	0.001985	± 2.5	PASS
		VN	-20	-0.27	-0.000157	± 2.5	PASS
		VN	-10	3.25	0.001892	± 2.5	PASS
		VN	0	1.93	0.001124	± 2.5	PASS
		VN	10	4.79	0.002789	± 2.5	PASS
		VN	20	2.4	0.001397	± 2.5	PASS
		VN	30	-0.28	-0.000163	± 2.5	PASS
		VN	40	3.21	0.001869	± 2.5	PASS
		VN	50	-0.2	-0.000116	± 2.5	PASS
	MCH	VN	-30	1	0.000577	± 2.5	PASS
		VN	-20	4.59	0.002649	± 2.5	PASS
		VN	-10	1.82	0.001051	± 2.5	PASS
		VN	0	2.14	0.001235	± 2.5	PASS
		VN	10	-0.93	-0.000537	± 2.5	PASS
		VN	20	2.61	0.001506	± 2.5	PASS

	HCH	VN	30	1.46	0.000843	$\pm 2.5$	PASS	
		VN	40	-0.61	-0.000352	$\pm 2.5$	PASS	
		VN	50	0.29	0.000167	$\pm 2.5$	PASS	
		VN	-30	-1.66	-0.000950	$\pm 2.5$	PASS	
		VN	-20	0.58	0.000332	$\pm 2.5$	PASS	
		VN	-10	-1.2	-0.000687	$\pm 2.5$	PASS	
		VN	0	-0.81	-0.000464	$\pm 2.5$	PASS	
		VN	10	1.42	0.000813	$\pm 2.5$	PASS	
		VN	20	2.92	0.001671	$\pm 2.5$	PASS	
		VN	30	2.82	0.001614	$\pm 2.5$	PASS	
	LCH	VN	40	2.9	0.001660	$\pm 2.5$	PASS	
		VN	50	-0.97	-0.000555	$\pm 2.5$	PASS	
		VN	-30	4.51	0.002603	$\pm 2.5$	PASS	
		VN	-20	1.58	0.000912	$\pm 2.5$	PASS	
		VN	-10	4.92	0.002840	$\pm 2.5$	PASS	
		VN	0	-0.04	-0.000023	$\pm 2.5$	PASS	
		VN	10	4.99	0.002880	$\pm 2.5$	PASS	
		VN	20	4.79	0.002765	$\pm 2.5$	PASS	
		VN	30	1.21	0.000698	$\pm 2.5$	PASS	
	MCH	VN	40	0.56	0.000323	$\pm 2.5$	PASS	
		VN	50	-0.31	-0.000179	$\pm 2.5$	PASS	
		VN	-30	0.14	0.000080	$\pm 2.5$	PASS	
		VN	-20	0.52	0.000298	$\pm 2.5$	PASS	
		VN	-10	-1.28	-0.000732	$\pm 2.5$	PASS	
		VN	0	1.34	0.000767	$\pm 2.5$	PASS	
		VN	10	4.57	0.002615	$\pm 2.5$	PASS	
		VN	20	-0.95	-0.000544	$\pm 2.5$	PASS	
		VN	30	-1.1	-0.000629	$\pm 2.5$	PASS	
	HCH	VN	40	-0.07	-0.000040	$\pm 2.5$	PASS	
		VN	50	1.03	0.000589	$\pm 2.5$	PASS	
		VN	-30	-0.11	-0.000063	$\pm 2.5$	PASS	
		VN	-20	2.73	0.001562	$\pm 2.5$	PASS	
		VN	-10	-1.51	-0.000864	$\pm 2.5$	PASS	
		VN	0	-1.13	-0.000647	$\pm 2.5$	PASS	
		VN	10	3.74	0.002140	$\pm 2.5$	PASS	
		VN	20	2.89	0.001654	$\pm 2.5$	PASS	
		VN	30	-0.53	-0.000303	$\pm 2.5$	PASS	
		VN	40	-0.72	-0.000412	$\pm 2.5$	PASS	
		VN	50	1.95	0.001116	$\pm 2.5$	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	3.38	0.001965	± 2.5	PASS
		VN	TN	4.95	0.002878	± 2.5	PASS
		VH	TN	3.33	0.001936	± 2.5	PASS
	MCH	VL	TN	-1.33	-0.000768	± 2.5	PASS
		VN	TN	2.35	0.001356	± 2.5	PASS
		VH	TN	4.78	0.002759	± 2.5	PASS
	HCH	VL	TN	4.91	0.002814	± 2.5	PASS
		VN	TN	-1.48	-0.000848	± 2.5	PASS
		VH	TN	0.6	0.000344	± 2.5	PASS
16QAM	LCH	VL	TN	1.82	0.001058	± 2.5	PASS
		VN	TN	-1.35	-0.000785	± 2.5	PASS
		VH	TN	4.53	0.002634	± 2.5	PASS
	MCH	VL	TN	1.23	0.000710	± 2.5	PASS
		VN	TN	-1.84	-0.001062	± 2.5	PASS
		VH	TN	-1.59	-0.000918	± 2.5	PASS
	HCH	VL	TN	0.34	0.000195	± 2.5	PASS
		VN	TN	-1.74	-0.000997	± 2.5	PASS
		VH	TN	-1.71	-0.000980	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	2.75	0.001599	± 2.5	PASS
		VN	-20	4.35	0.002529	± 2.5	PASS
		VN	-10	2.39	0.001390	± 2.5	PASS
		VN	0	-1.76	-0.001023	± 2.5	PASS
		VN	10	4.23	0.002459	± 2.5	PASS
		VN	20	3.14	0.001826	± 2.5	PASS
		VN	30	3.78	0.002198	± 2.5	PASS
		VN	40	2.69	0.001564	± 2.5	PASS
		VN	50	2.69	0.001564	± 2.5	PASS
	MCH	VN	-30	3.67	0.002118	± 2.5	PASS
		VN	-20	3.8	0.002193	± 2.5	PASS
		VN	-10	3.41	0.001968	± 2.5	PASS
		VN	0	4.91	0.002834	± 2.5	PASS
		VN	10	4.69	0.002707	± 2.5	PASS
		VN	20	4.24	0.002447	± 2.5	PASS

		VN	30	4.08	0.002355	$\pm 2.5$	PASS
		VN	40	4.14	0.002390	$\pm 2.5$	PASS
		VN	50	1.99	0.001149	$\pm 2.5$	PASS
	HCH	VN	-30	4.15	0.002378	$\pm 2.5$	PASS
		VN	-20	2.08	0.001192	$\pm 2.5$	PASS
		VN	-10	3.17	0.001817	$\pm 2.5$	PASS
		VN	0	4.92	0.002819	$\pm 2.5$	PASS
		VN	10	-1.07	-0.000613	$\pm 2.5$	PASS
		VN	20	2.44	0.001398	$\pm 2.5$	PASS
		VN	30	4.51	0.002585	$\pm 2.5$	PASS
16QAM	LCH	VN	40	4.72	0.002705	$\pm 2.5$	PASS
		VN	50	3.25	0.001862	$\pm 2.5$	PASS
	MCH	VN	-30	-1.71	-0.000987	$\pm 2.5$	PASS
		VN	-20	4.77	0.002753	$\pm 2.5$	PASS
		VN	-10	2.24	0.001293	$\pm 2.5$	PASS
		VN	0	0.29	0.000167	$\pm 2.5$	PASS
		VN	10	3.55	0.002049	$\pm 2.5$	PASS
		VN	20	4.18	0.002413	$\pm 2.5$	PASS
		VN	30	2.91	0.001680	$\pm 2.5$	PASS
		VN	40	0.08	0.000046	$\pm 2.5$	PASS
		VN	50	0.15	0.000087	$\pm 2.5$	PASS
	HCH	VN	-30	4.59	0.002630	$\pm 2.5$	PASS
		VN	-20	0.79	0.000453	$\pm 2.5$	PASS
		VN	-10	3.25	0.001862	$\pm 2.5$	PASS
		VN	0	3.42	0.001960	$\pm 2.5$	PASS
		VN	10	0.83	0.000476	$\pm 2.5$	PASS
		VN	20	1.89	0.001083	$\pm 2.5$	PASS
		VN	30	2.15	0.001232	$\pm 2.5$	PASS
		VN	40	-1.25	-0.000716	$\pm 2.5$	PASS
		VN	50	-1.89	-0.001083	$\pm 2.5$	PASS