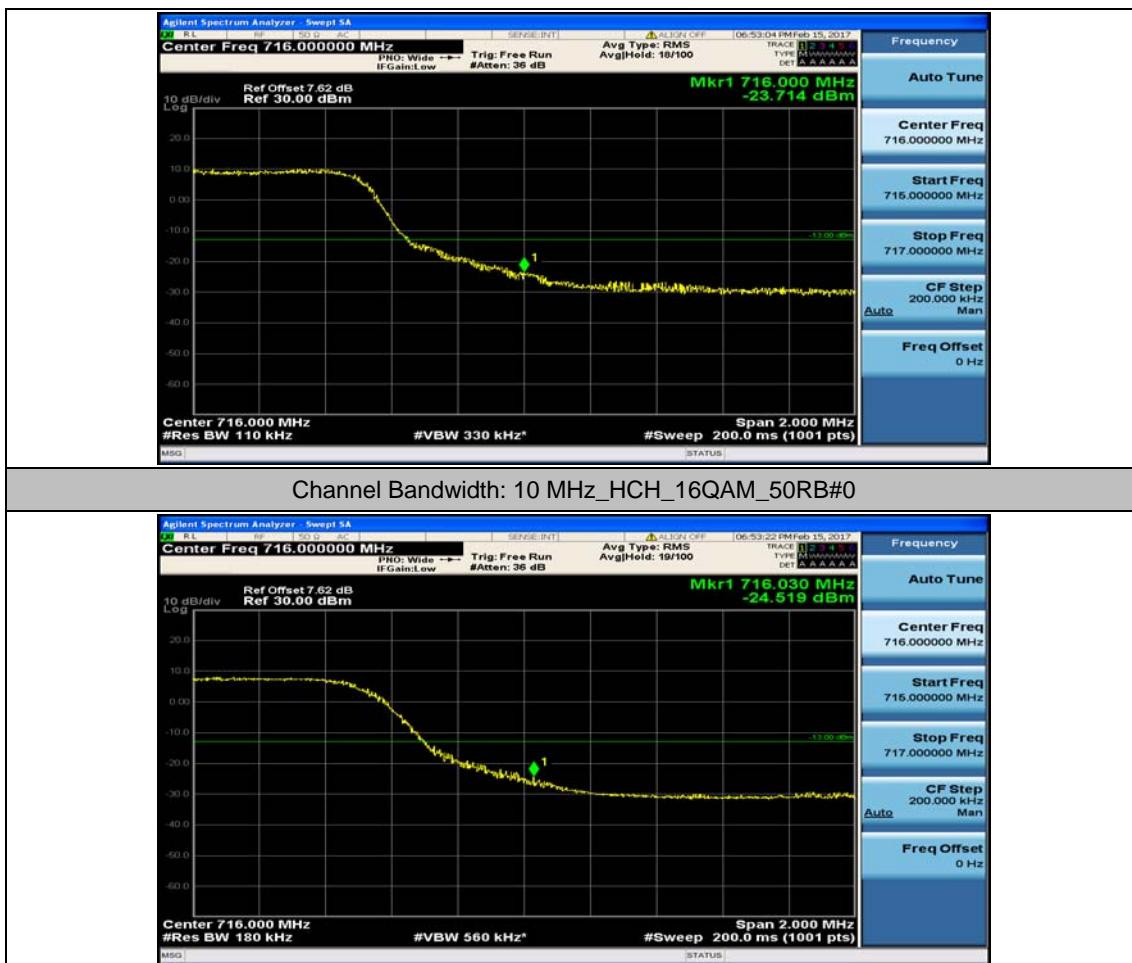


**Channel Bandwidth: 10 MHz\_HCH\_16QAM\_1RB#49**

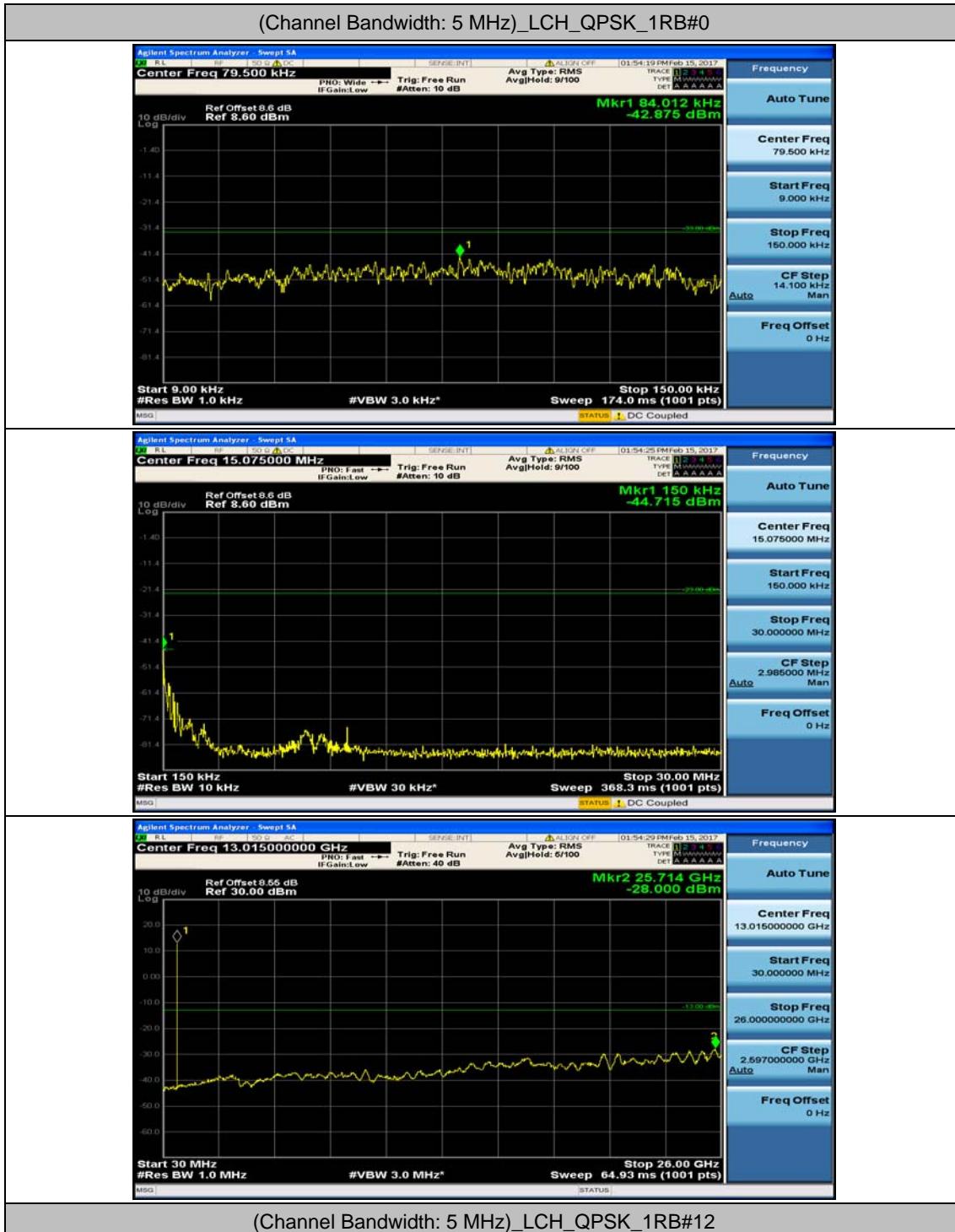


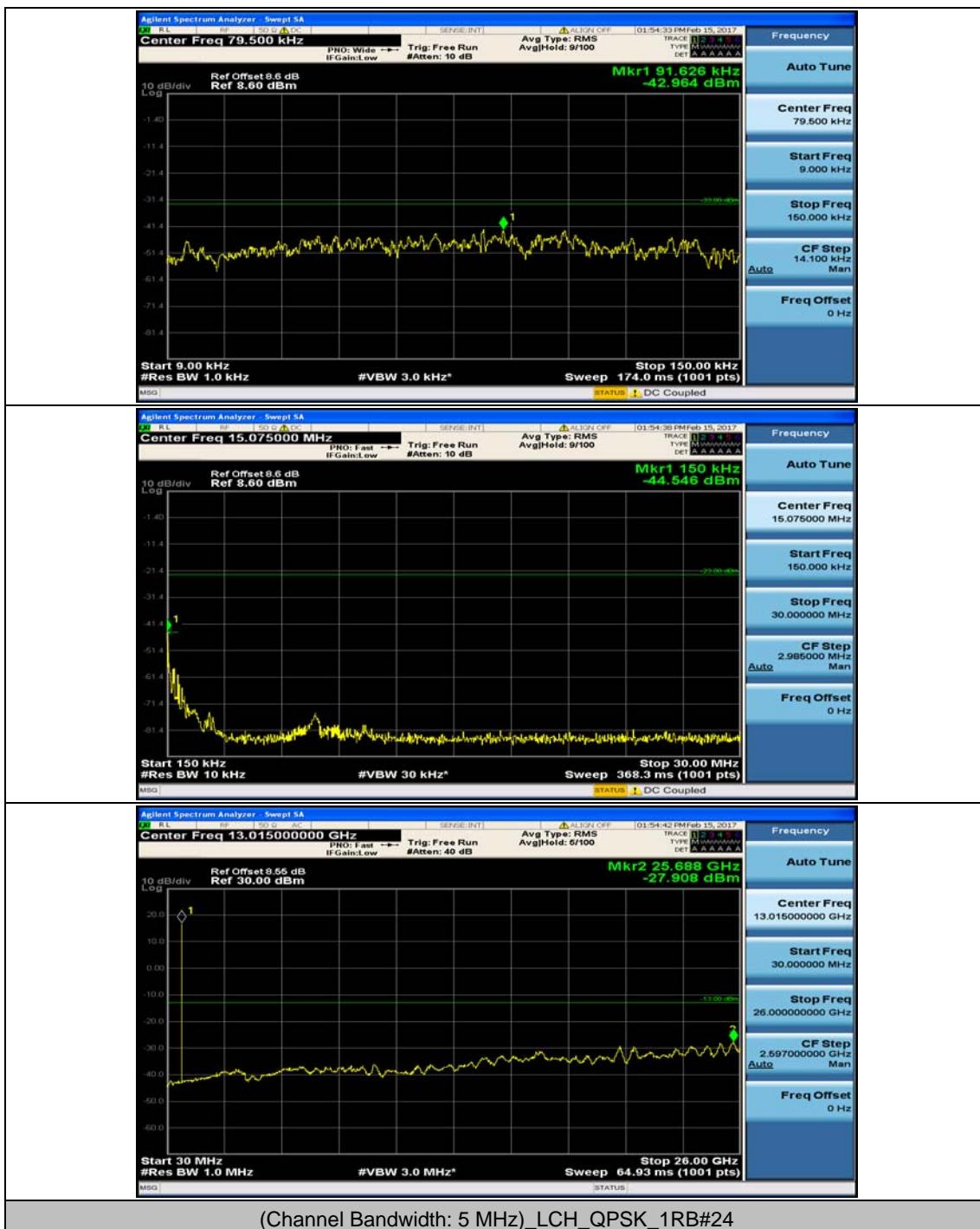


## Appendix E: Conducted Spurious Emission

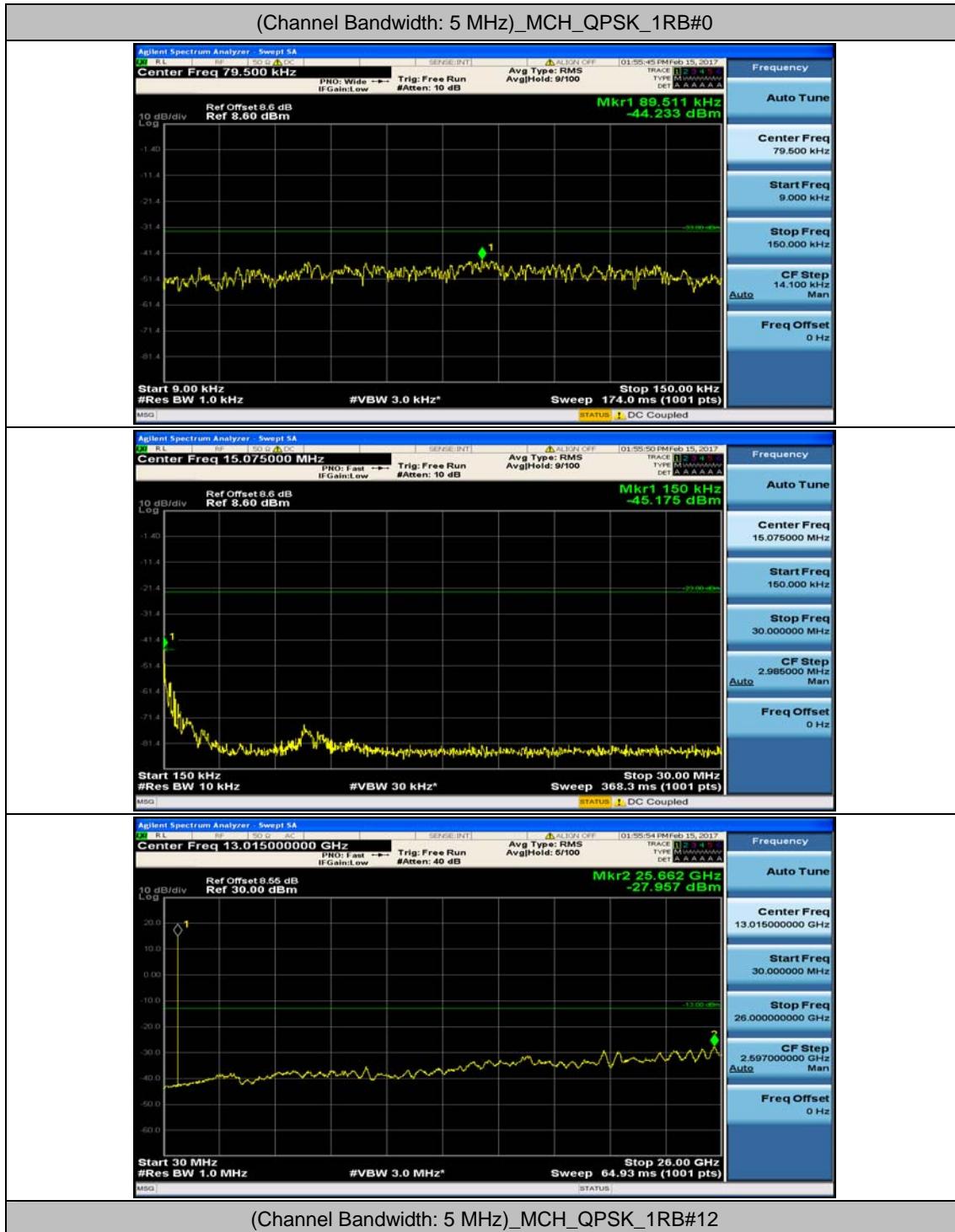
### Test Graphs

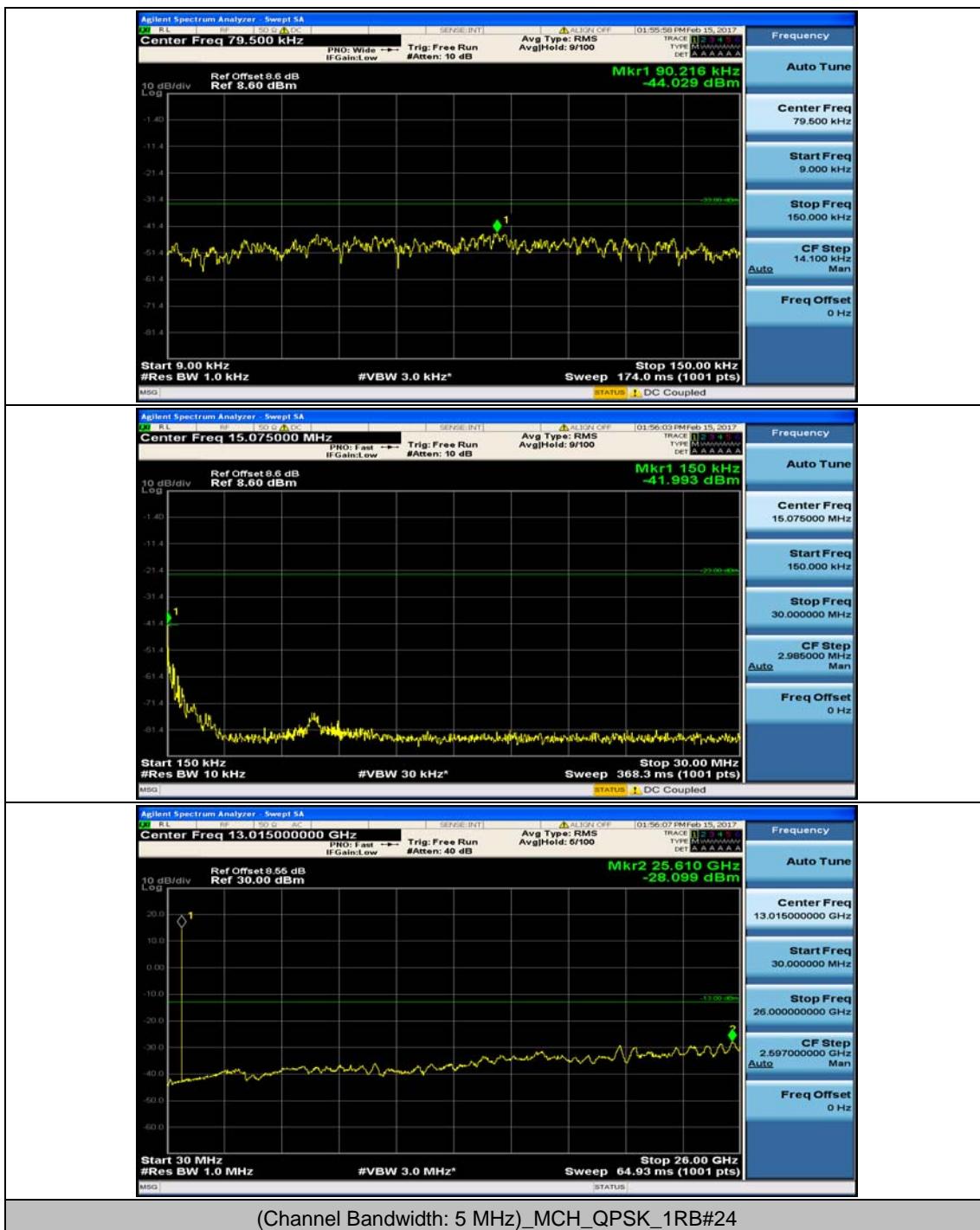
#### Channel Bandwidth: 5 MHz

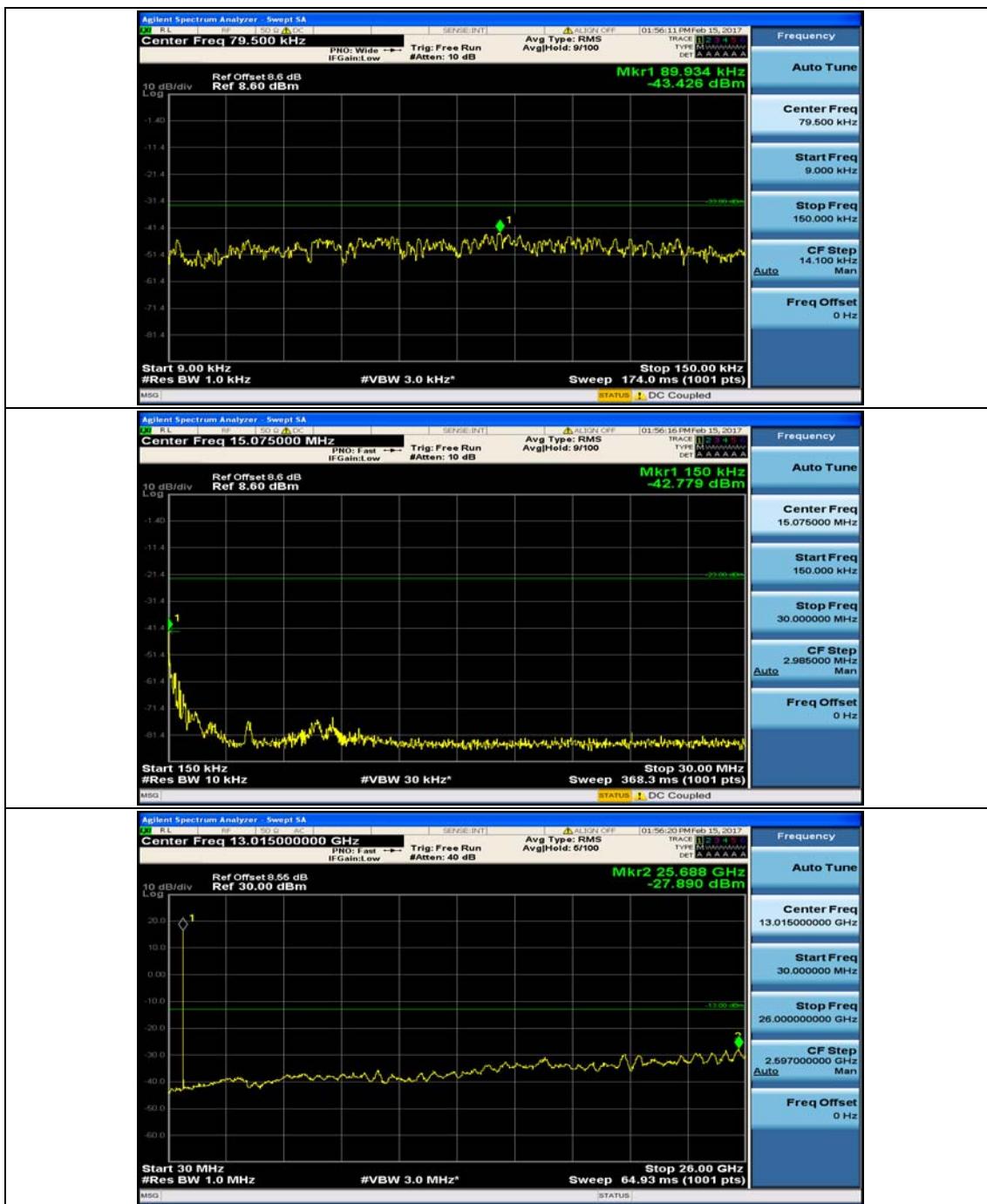


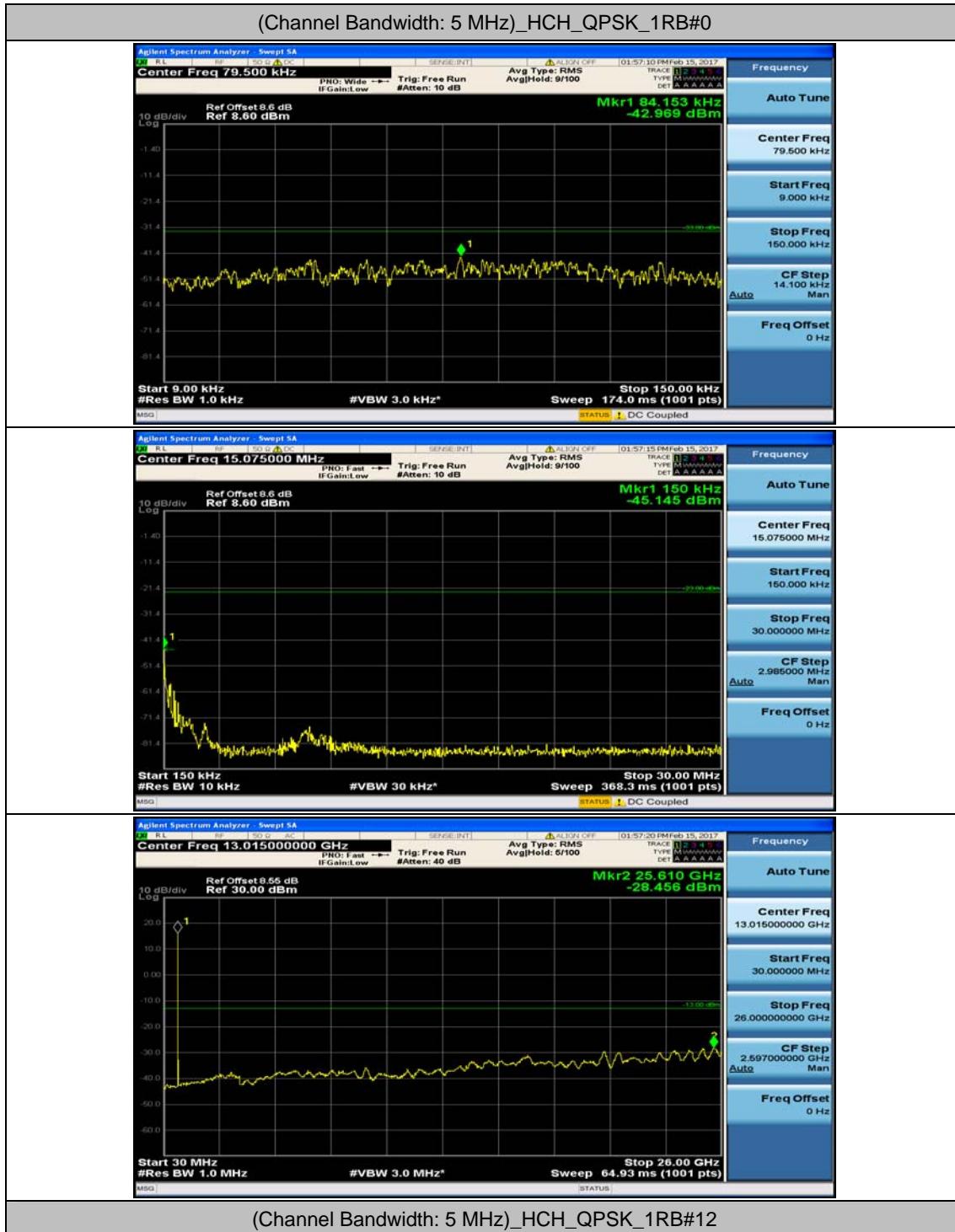


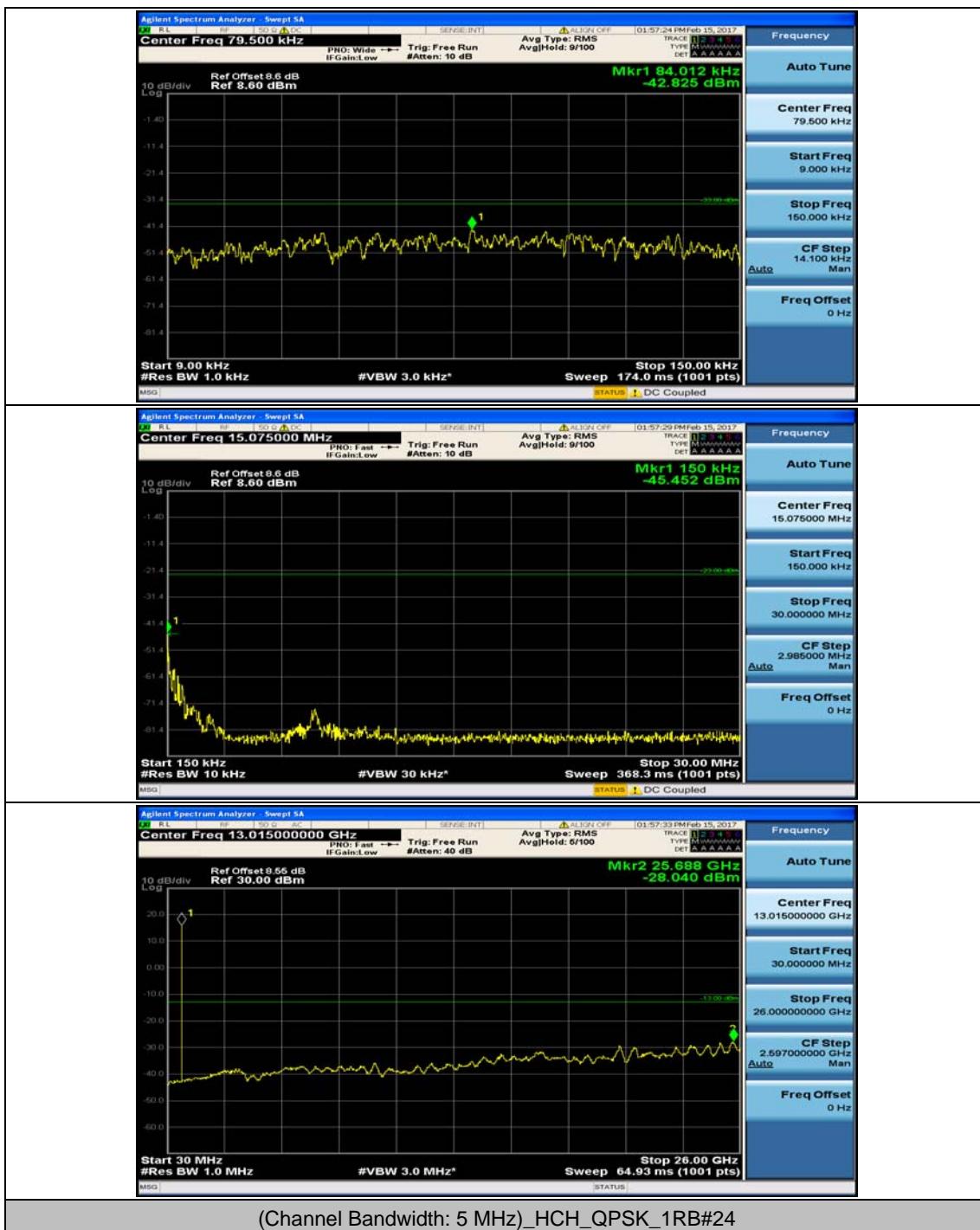




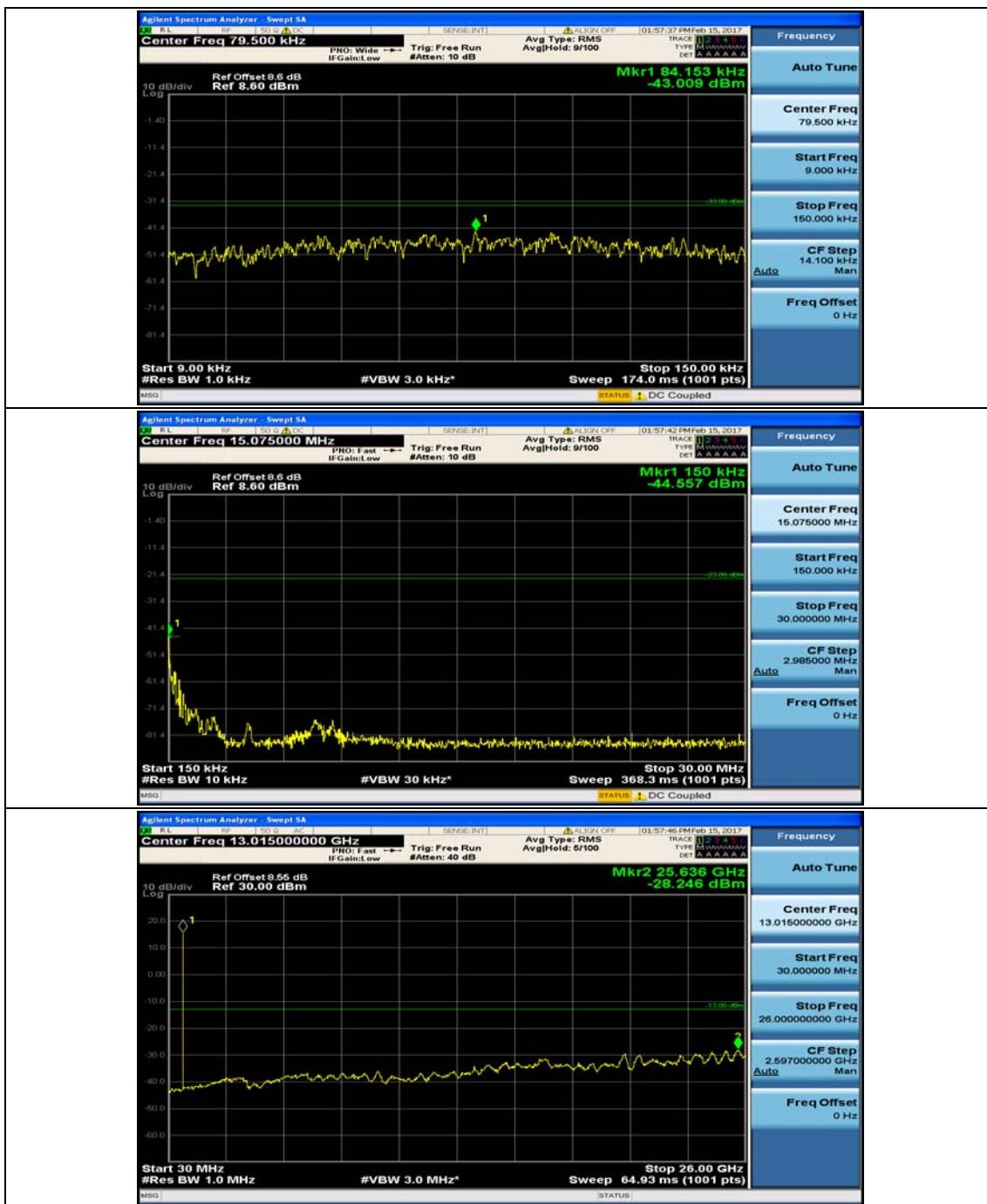


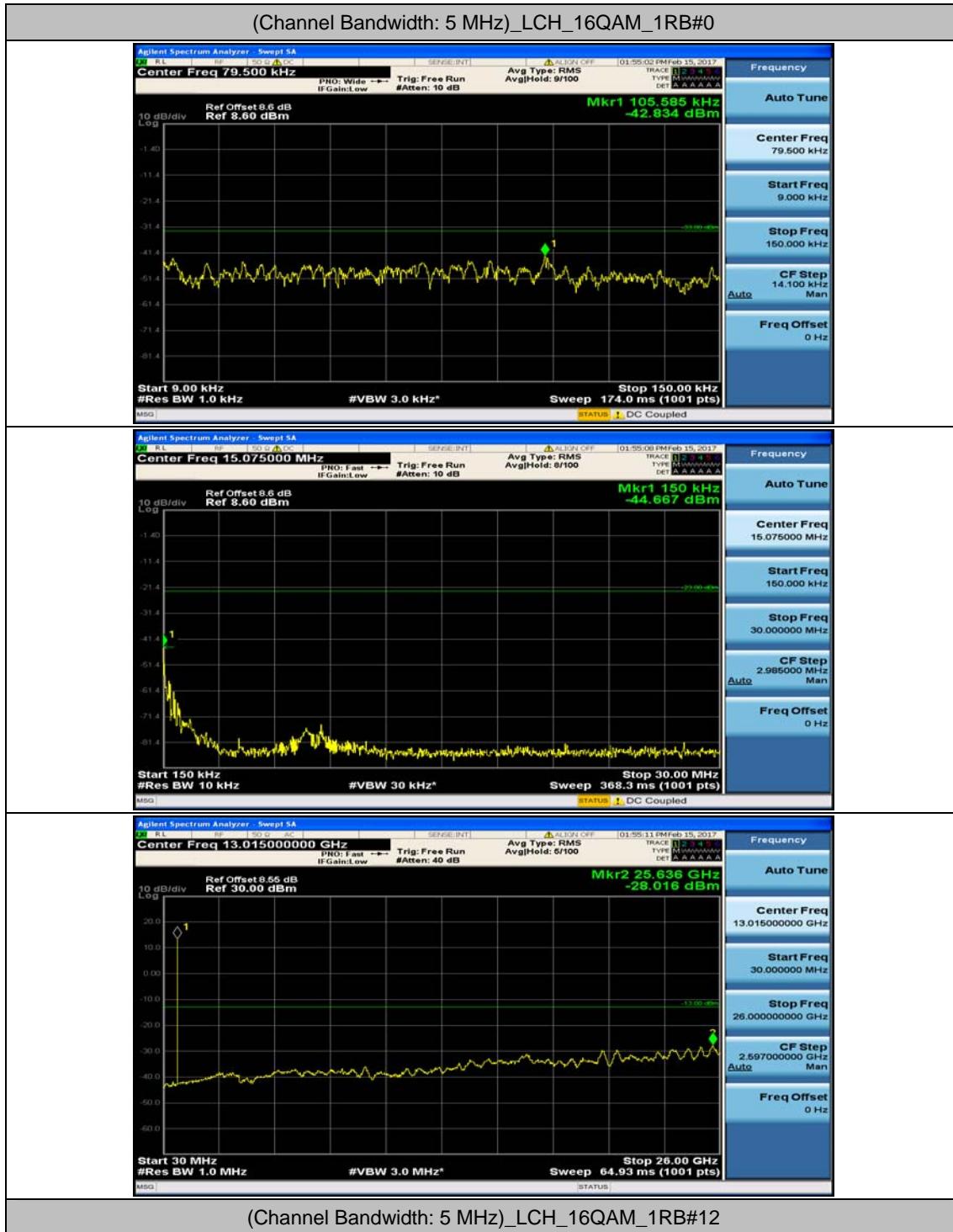


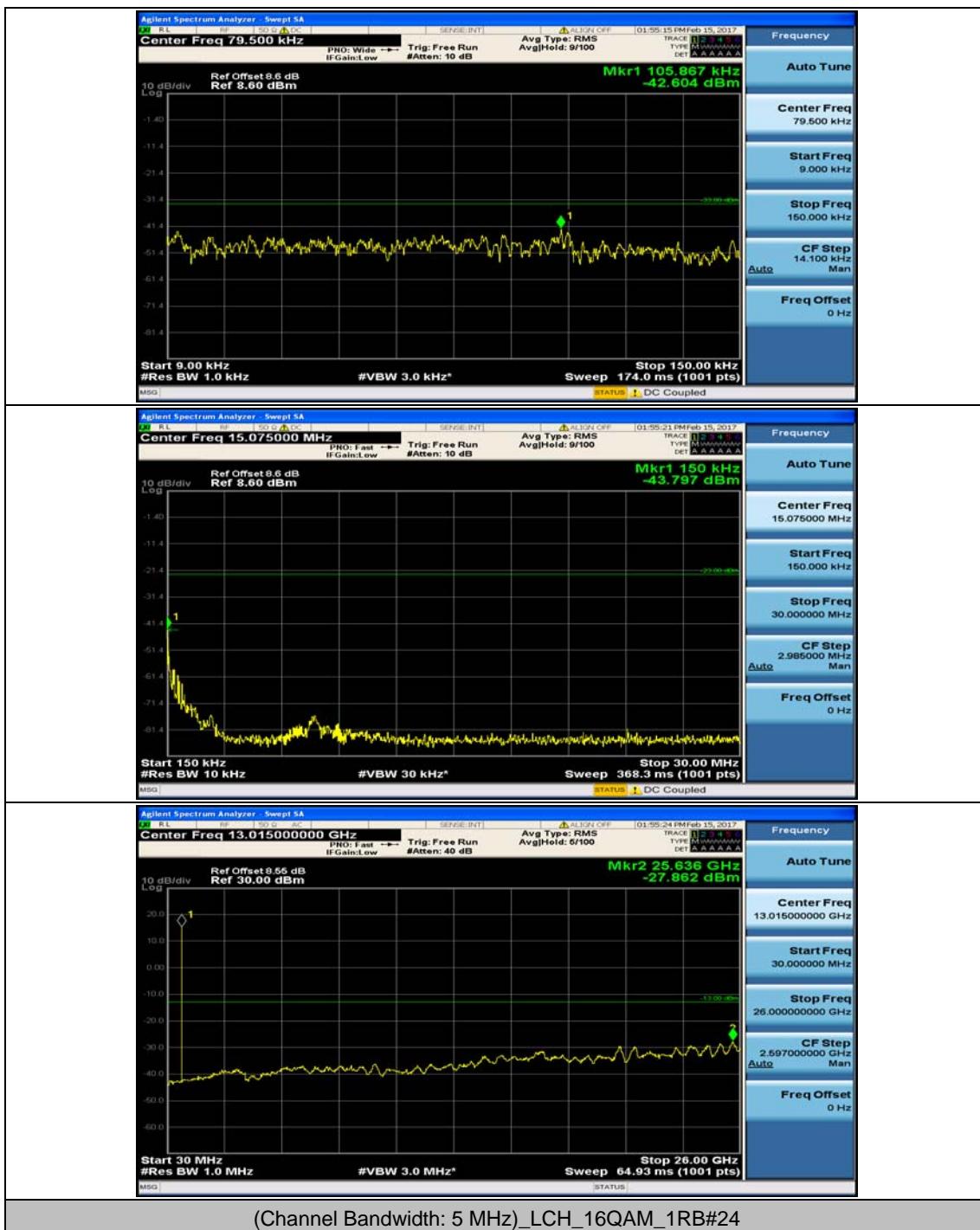


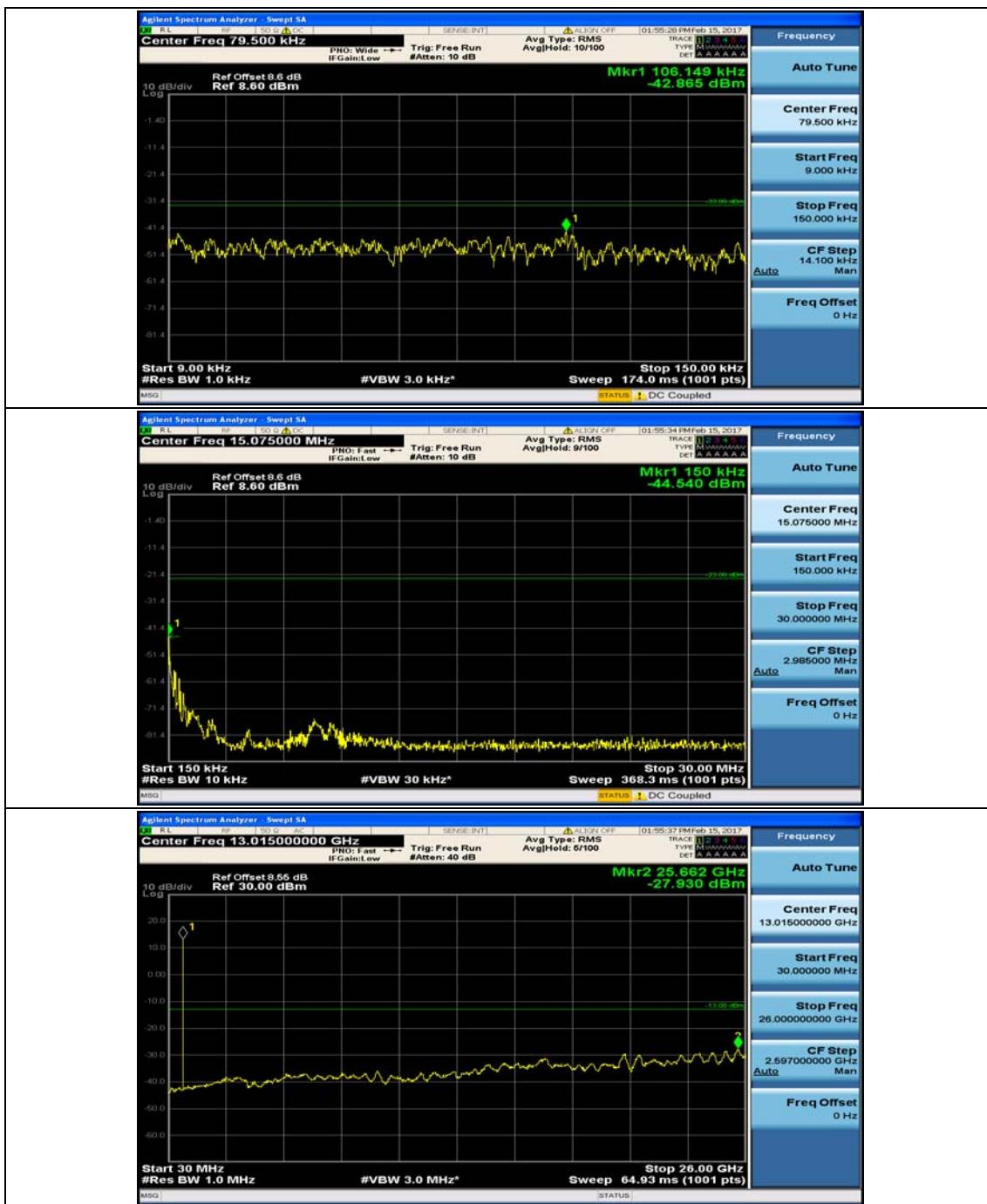


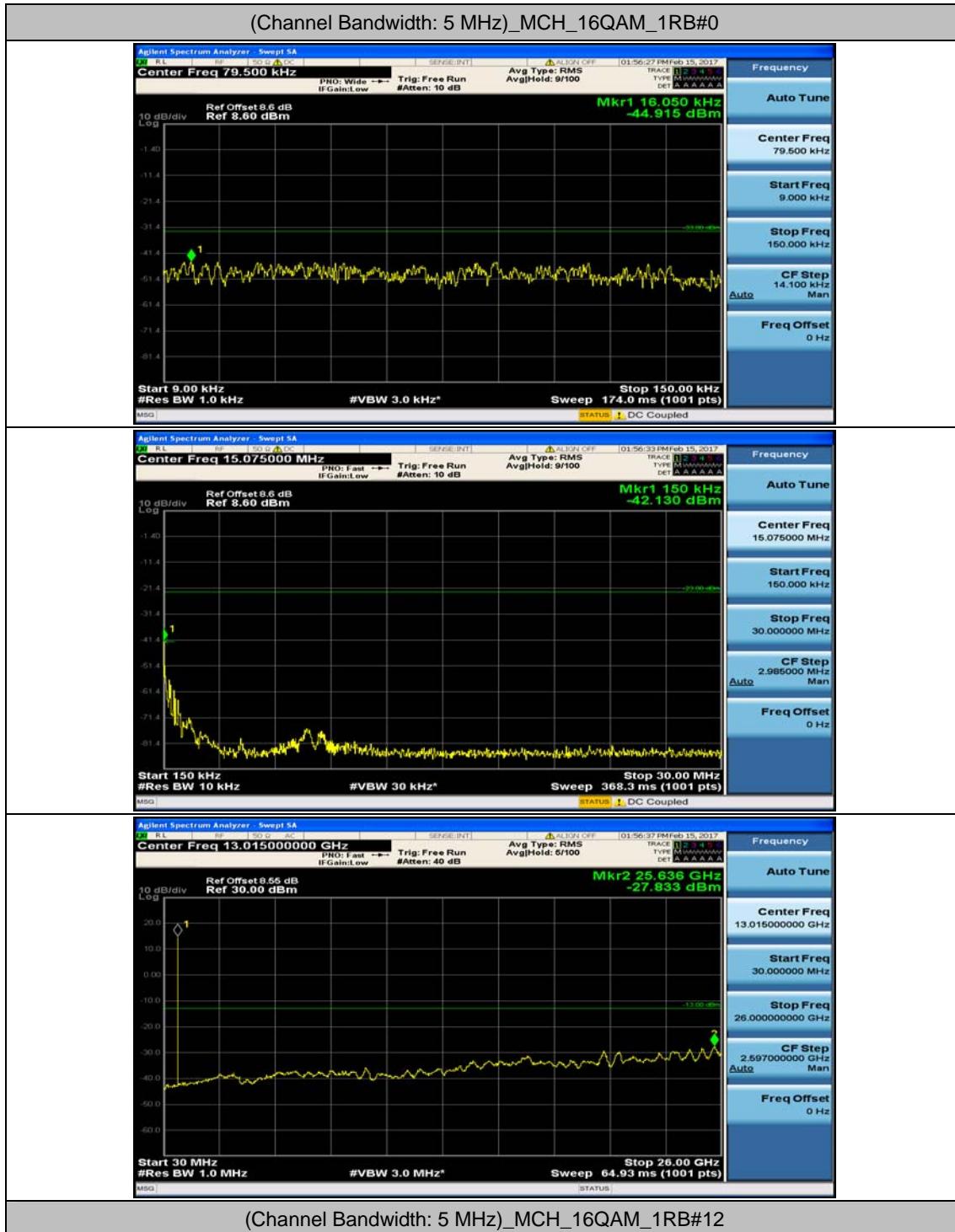
(Channel Bandwidth: 5 MHz)\_HCH\_QPSK\_1RB#24

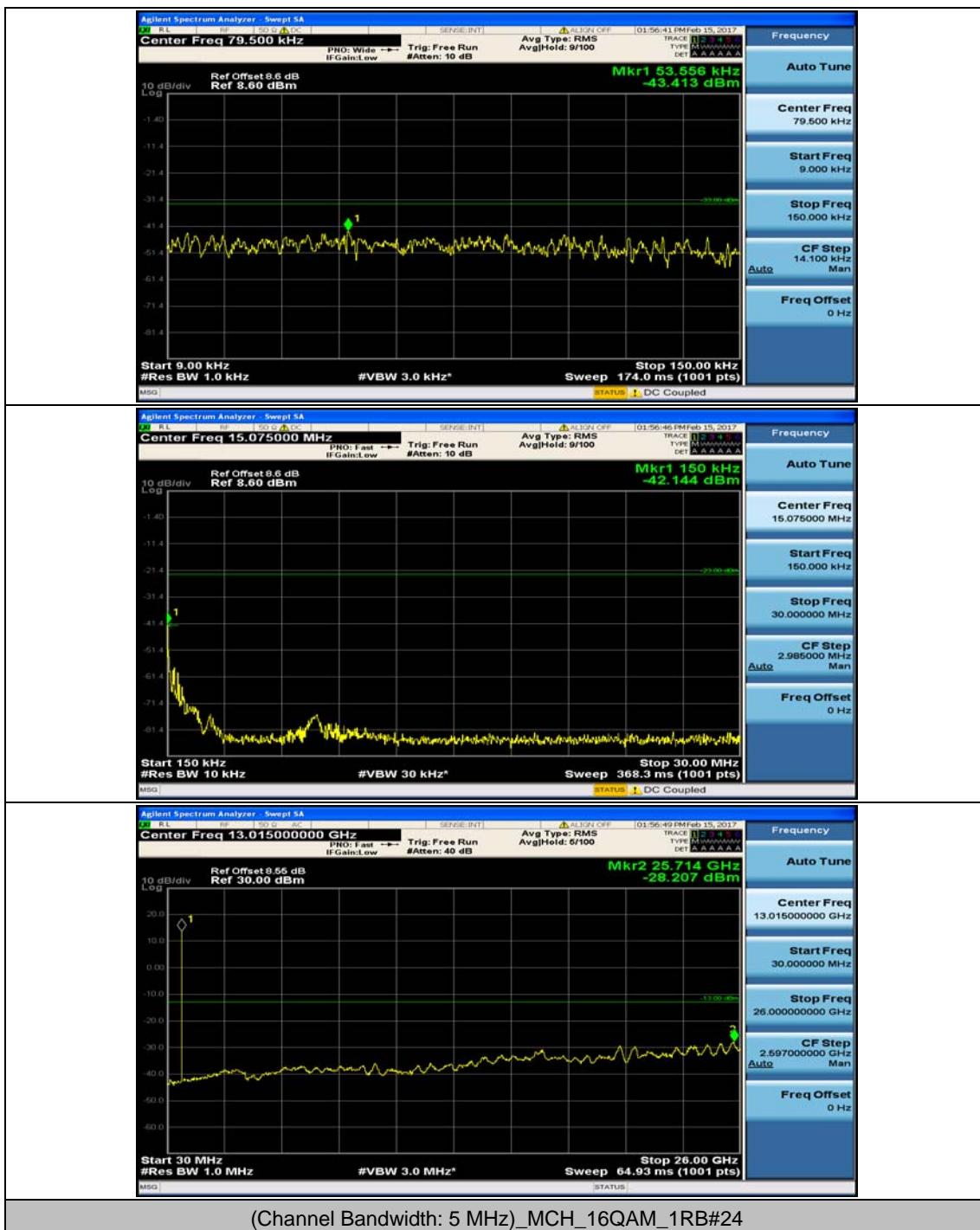


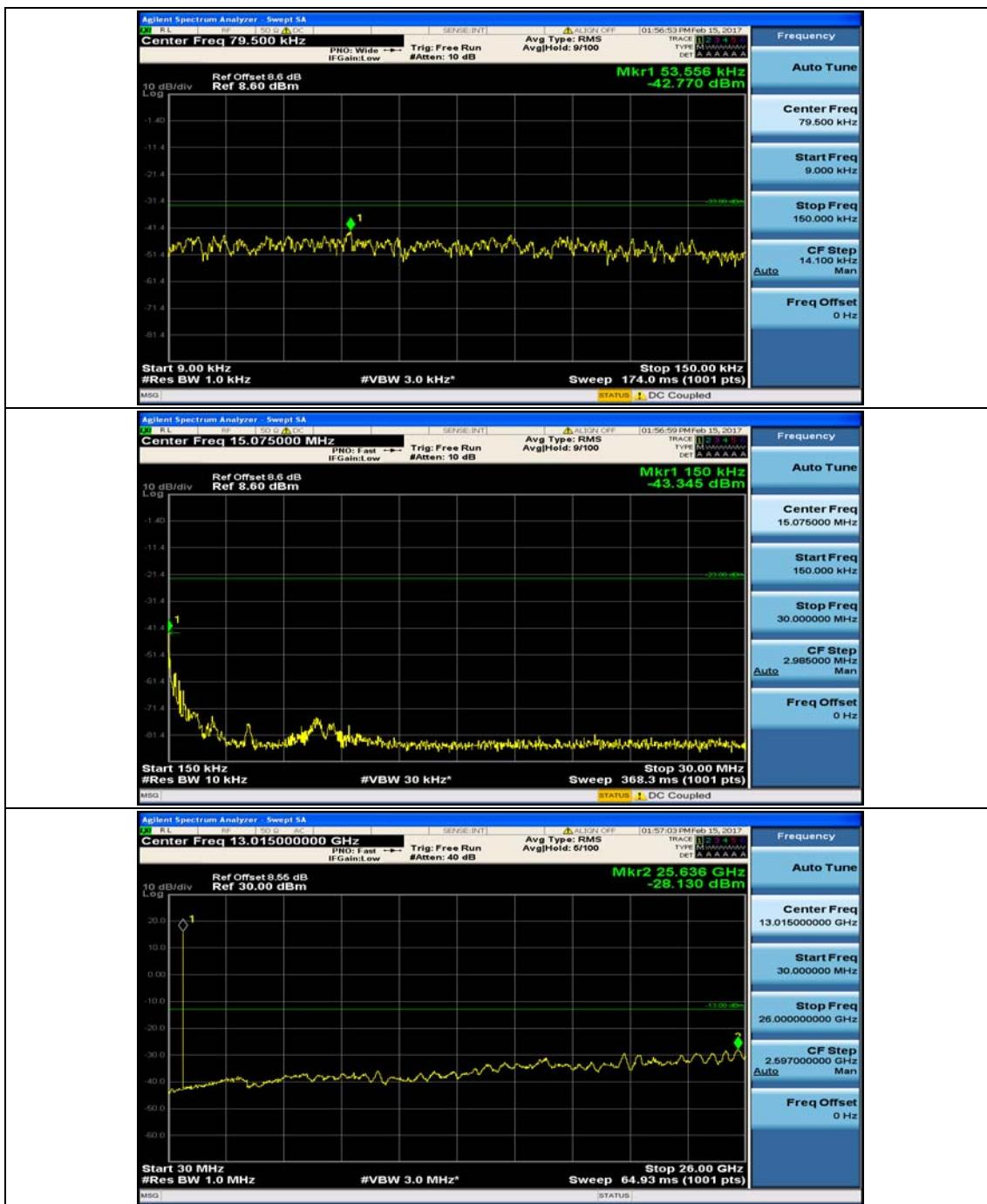


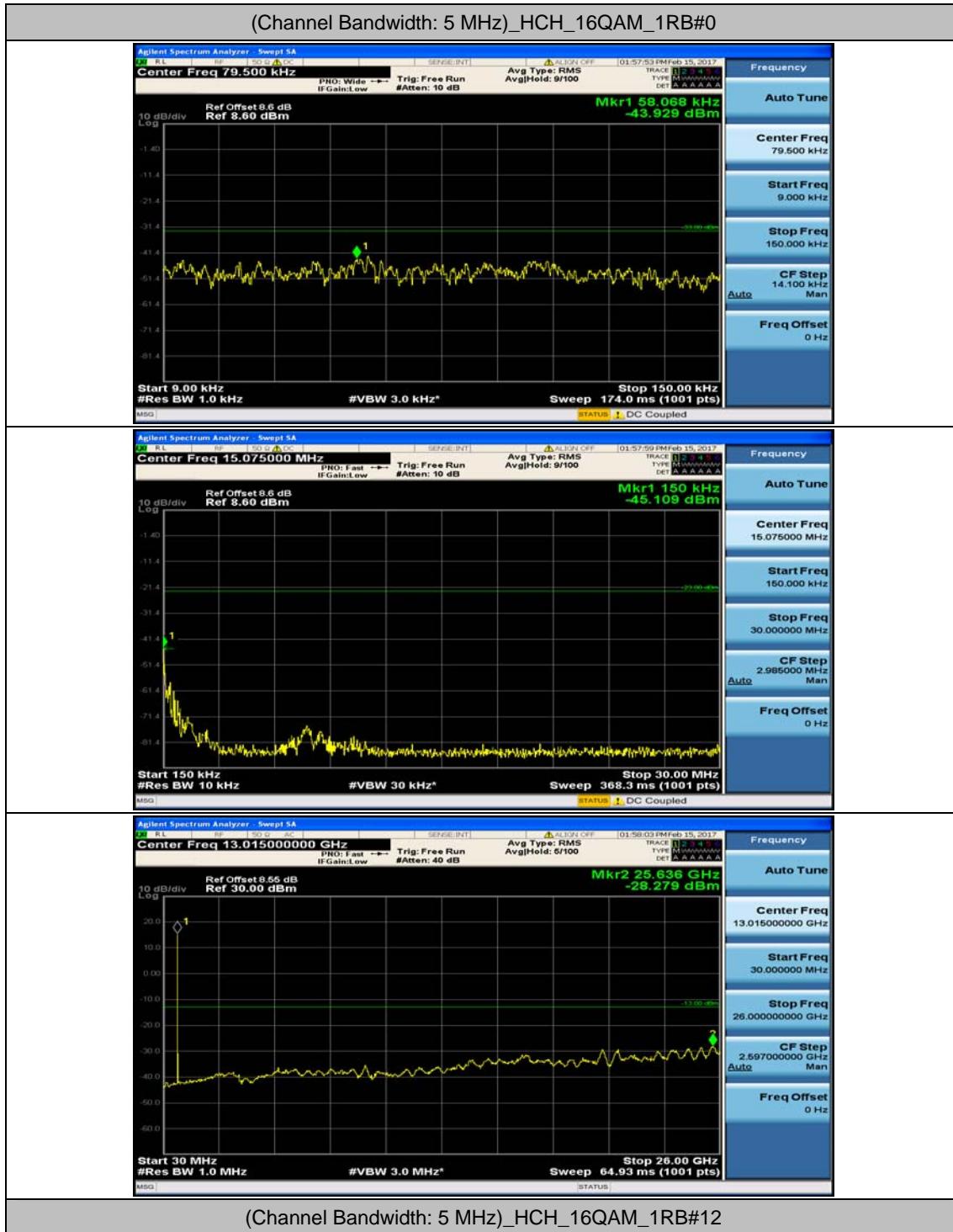


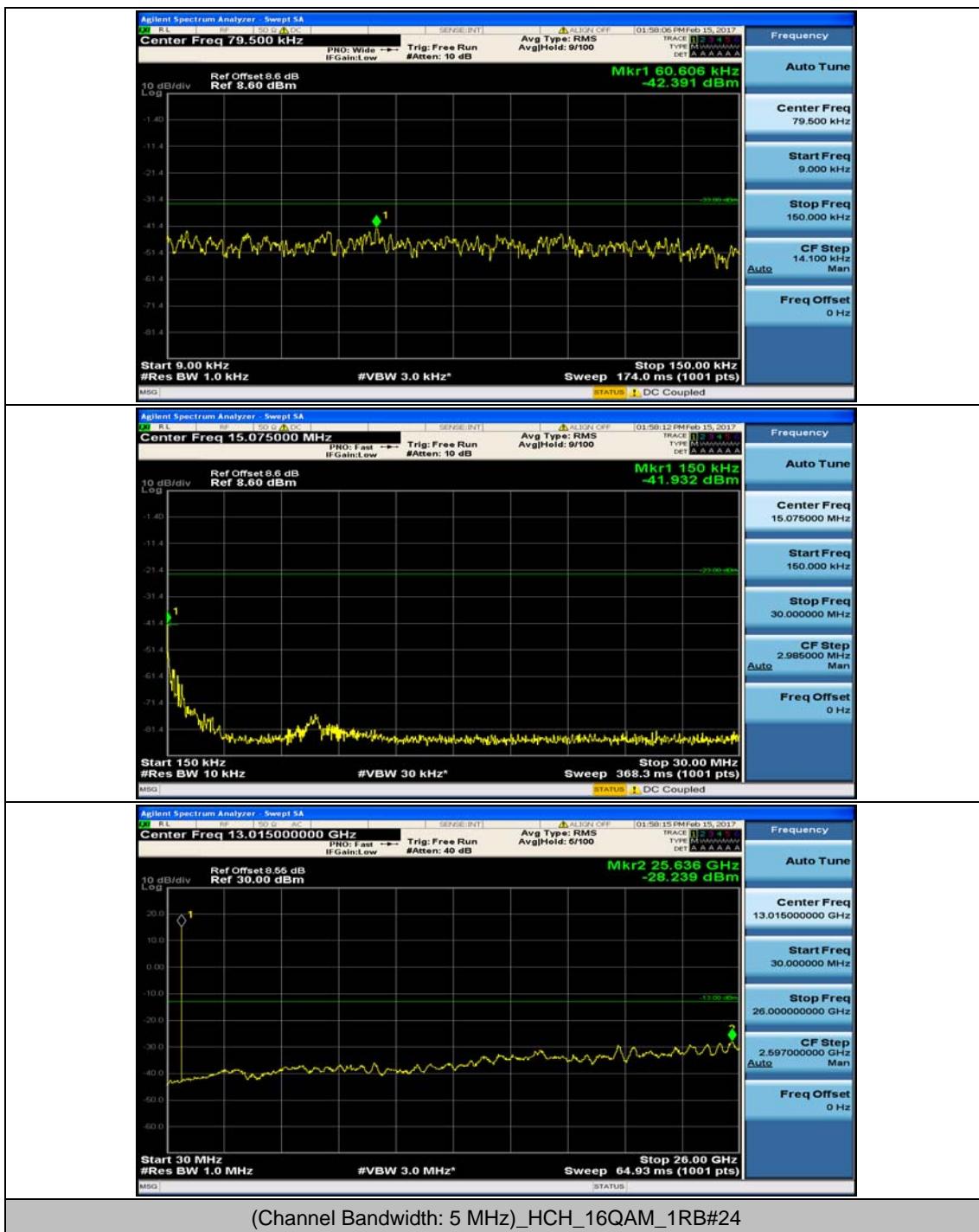




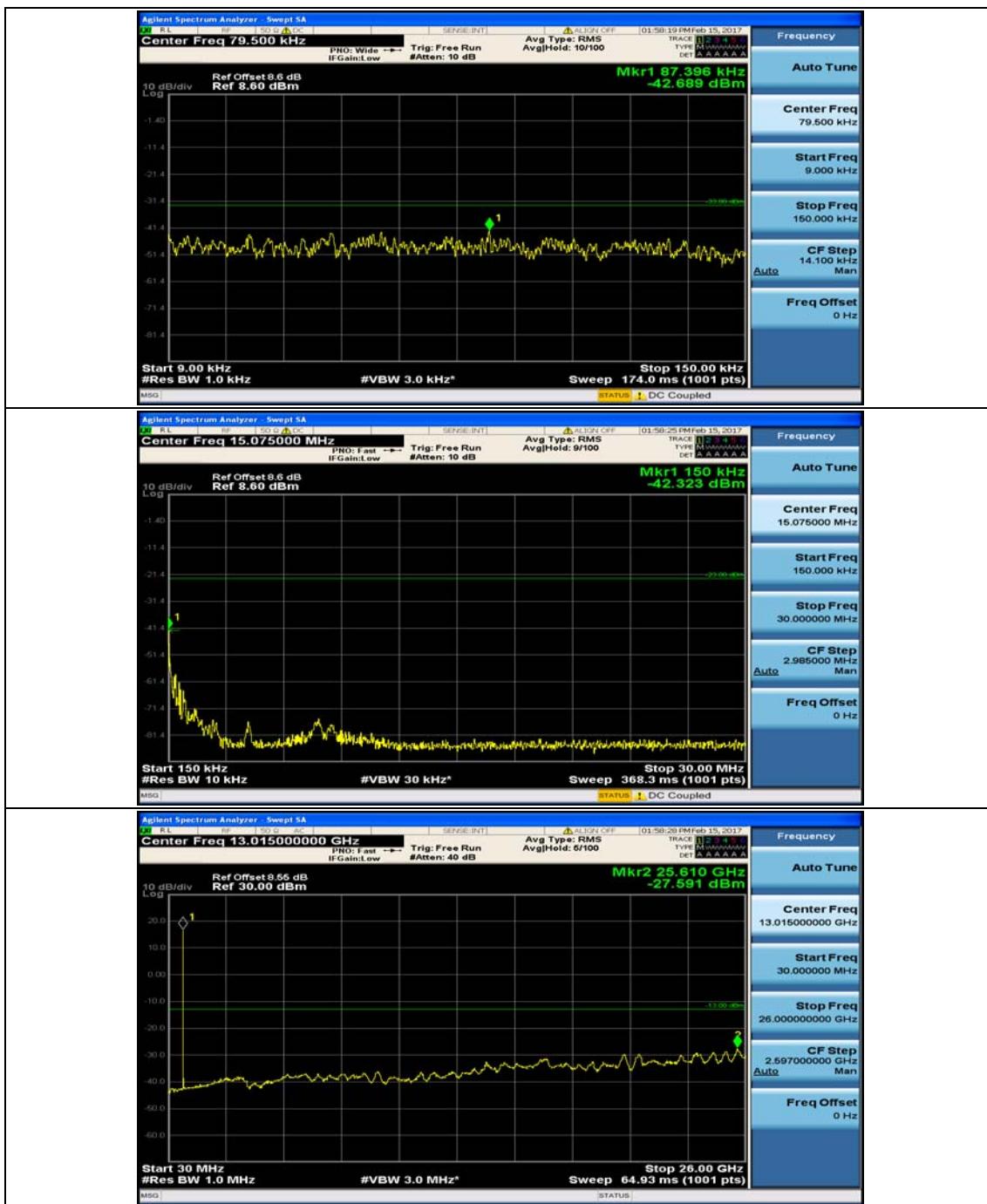




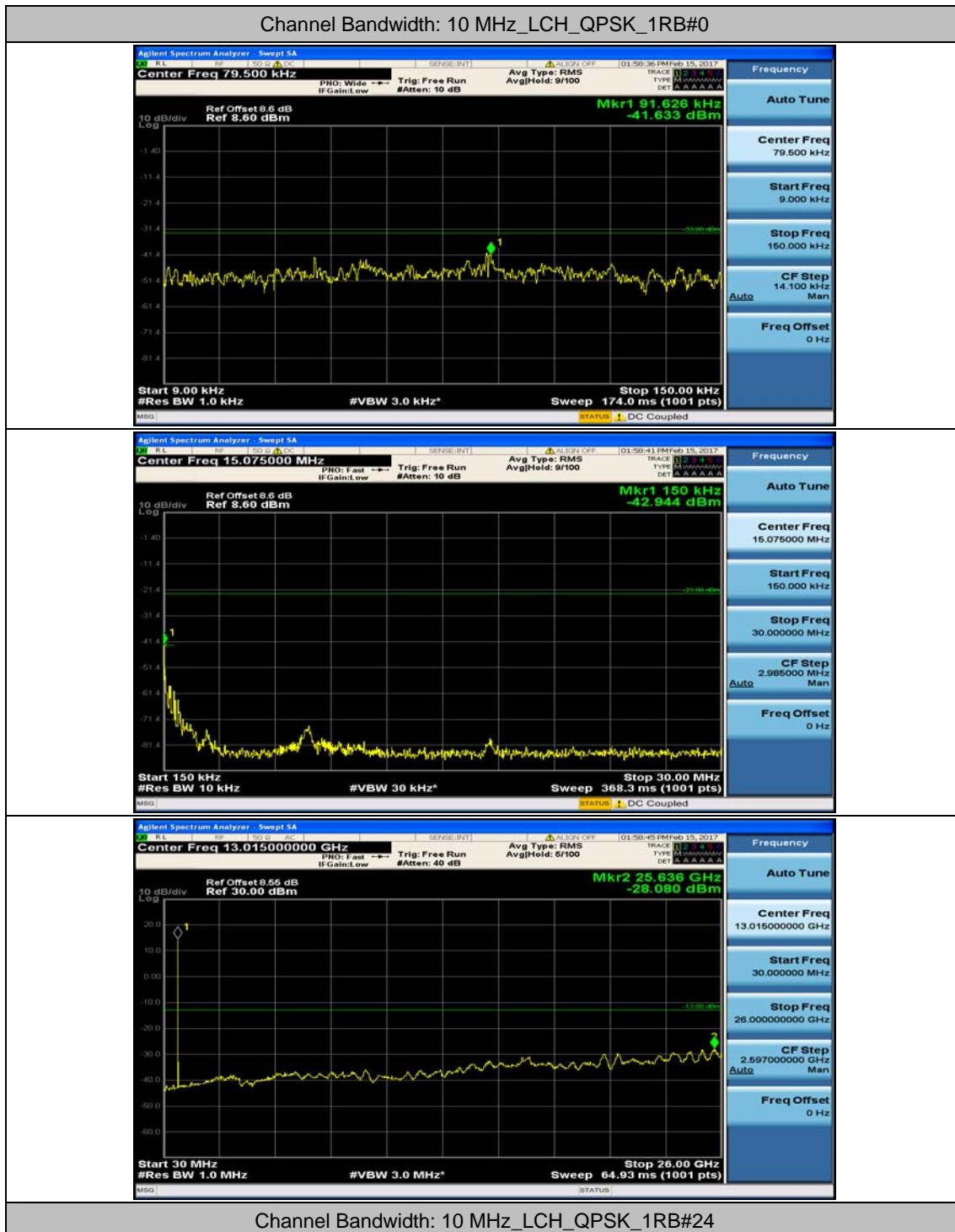


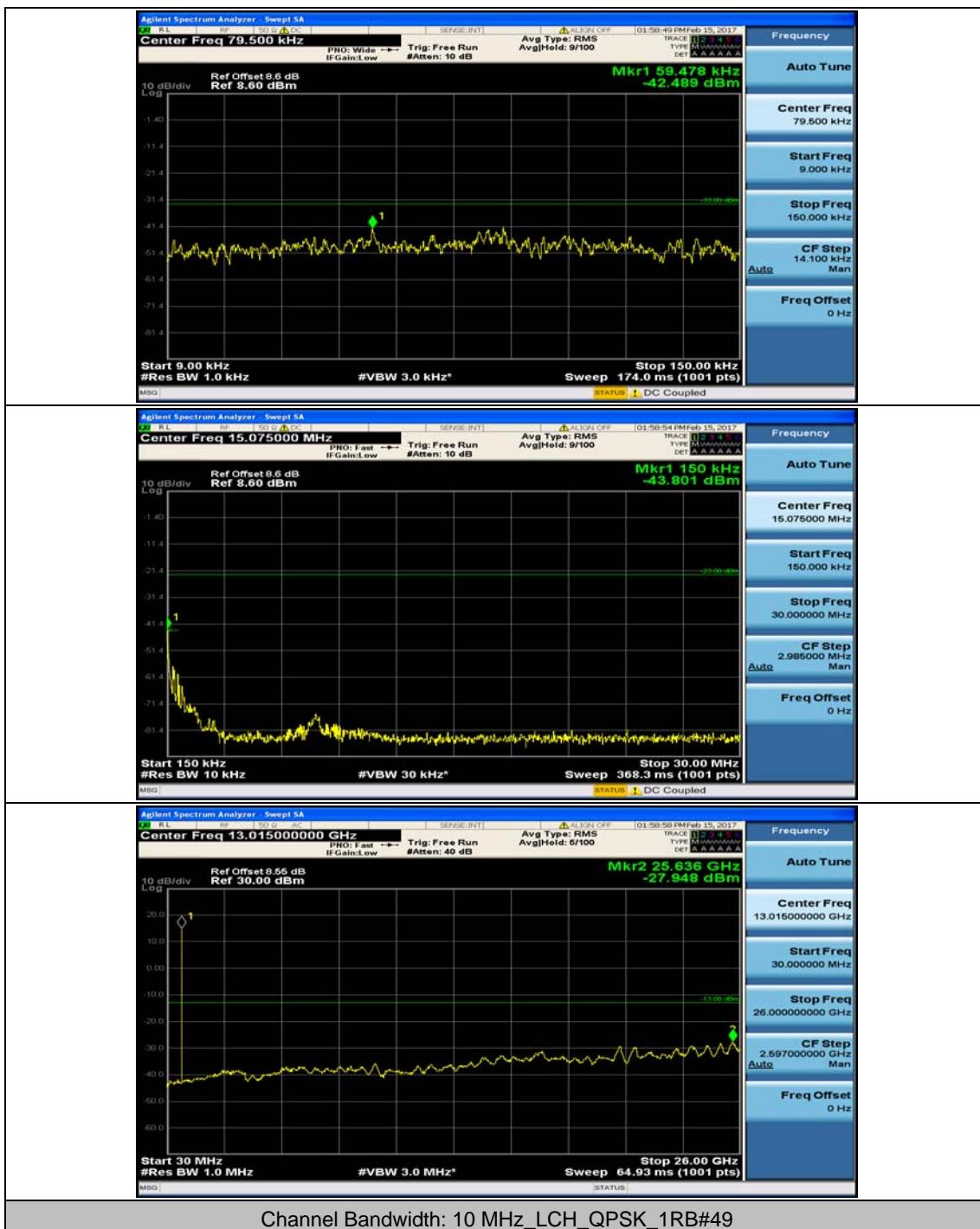


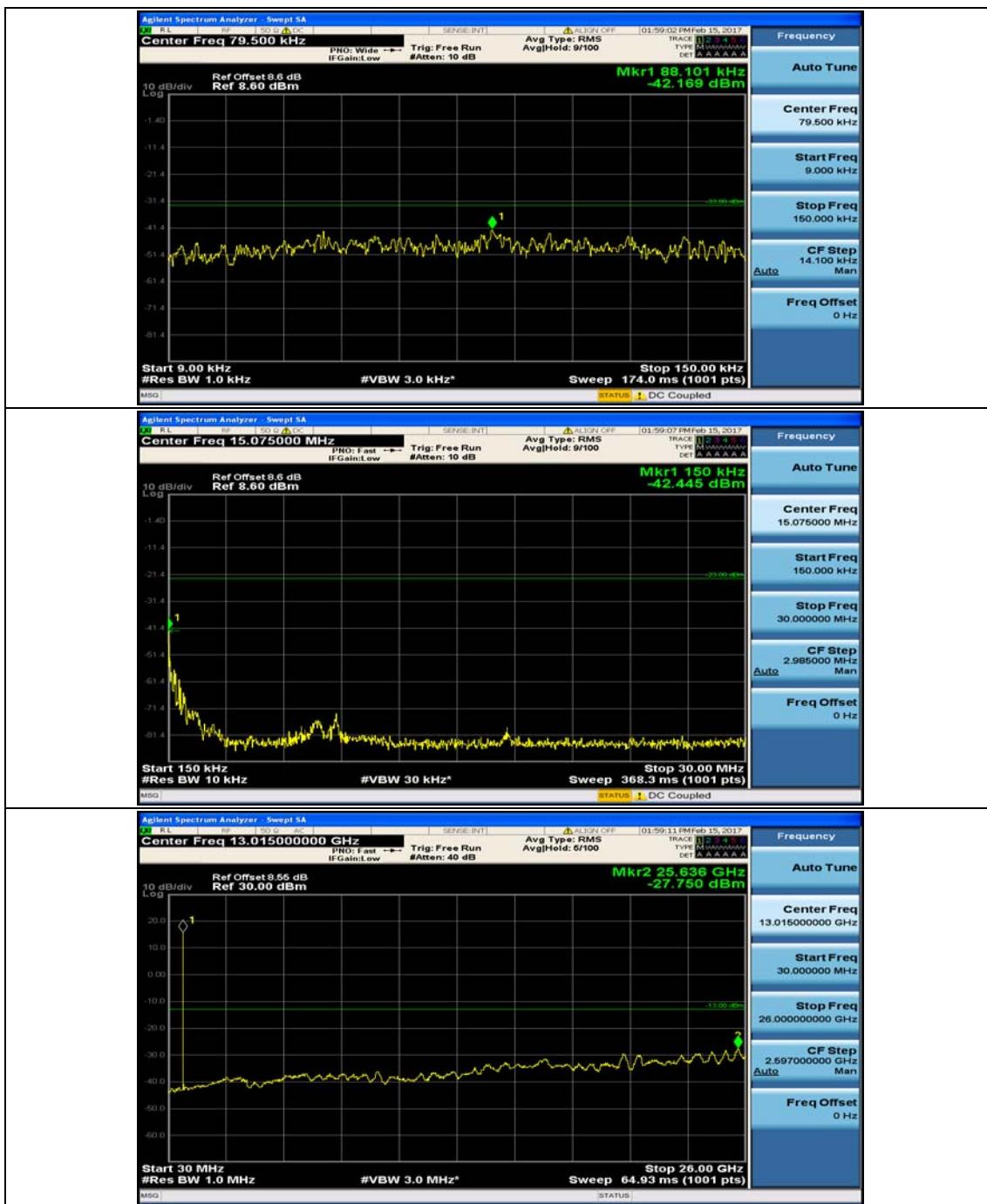
(Channel Bandwidth: 5 MHz)\_HCH\_16QAM\_1RB#24

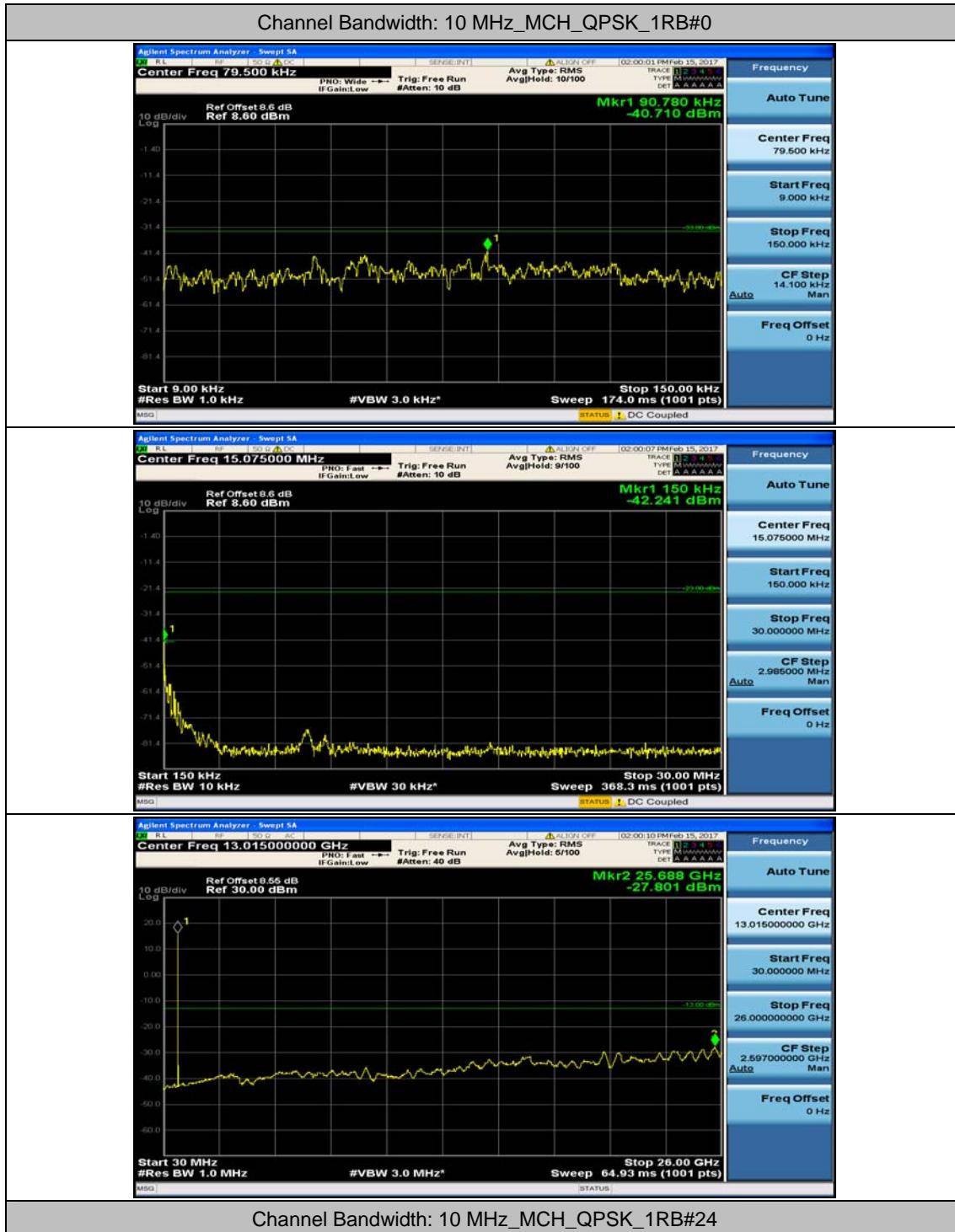


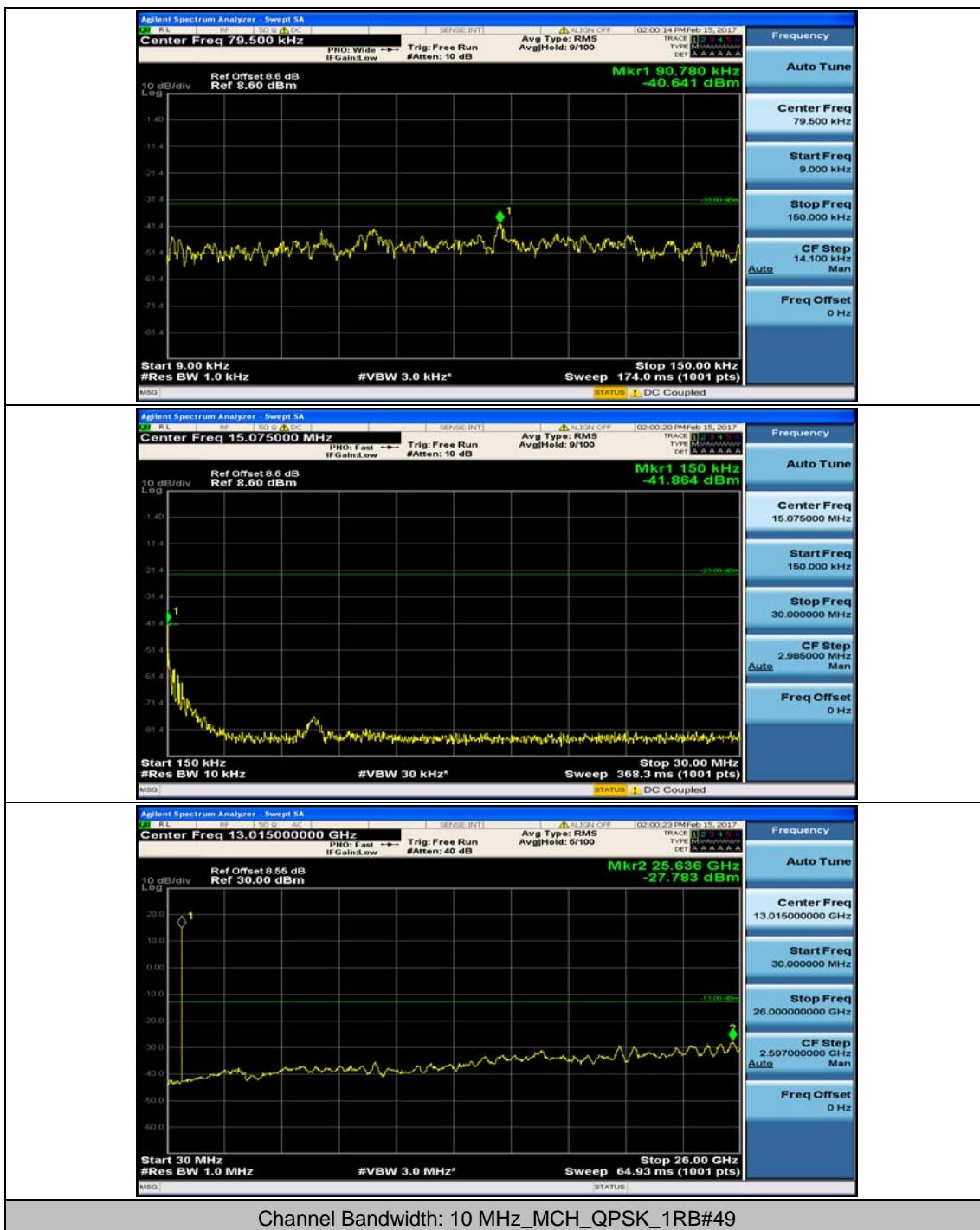
## Channel Bandwidth: 10 MHz

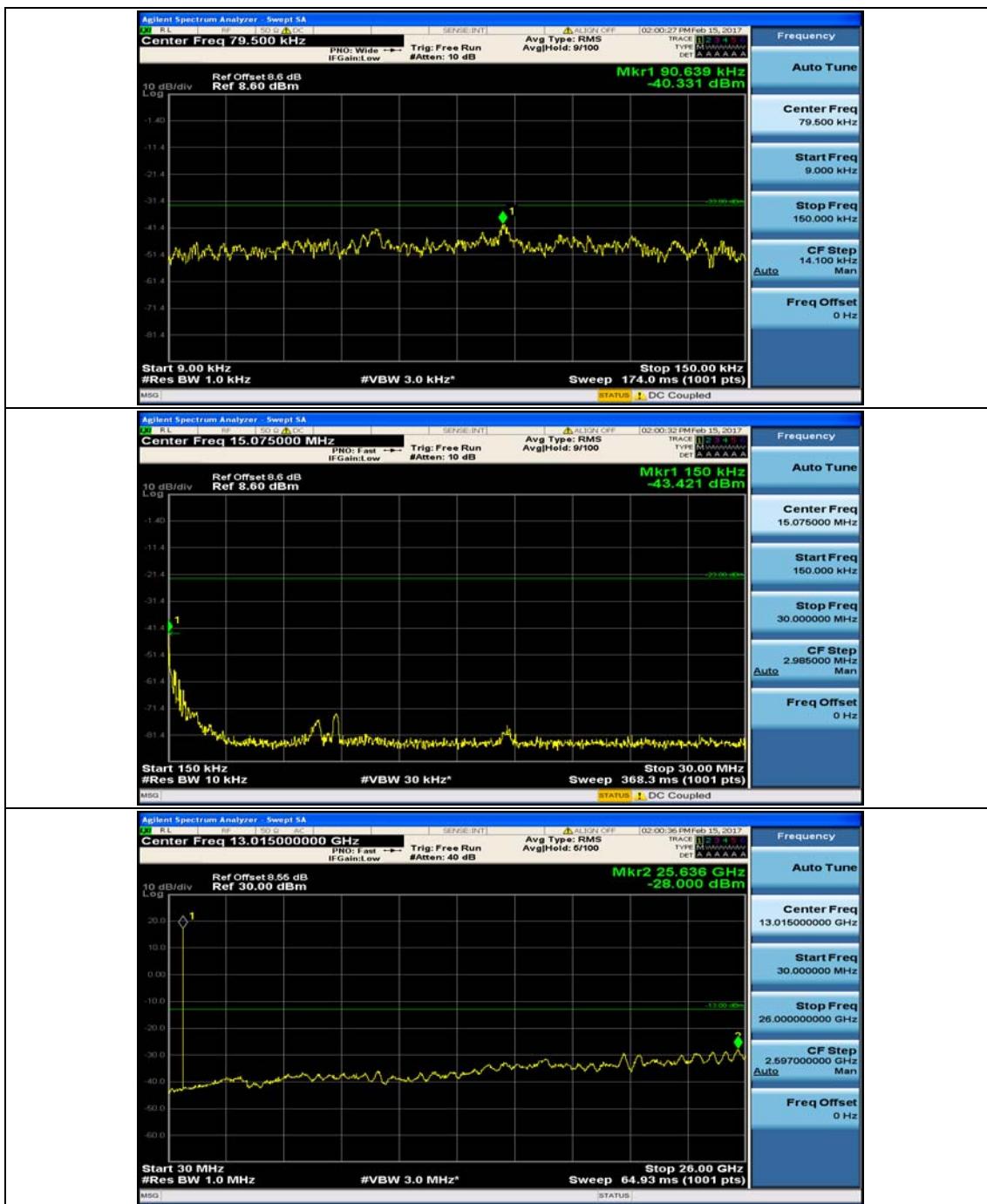


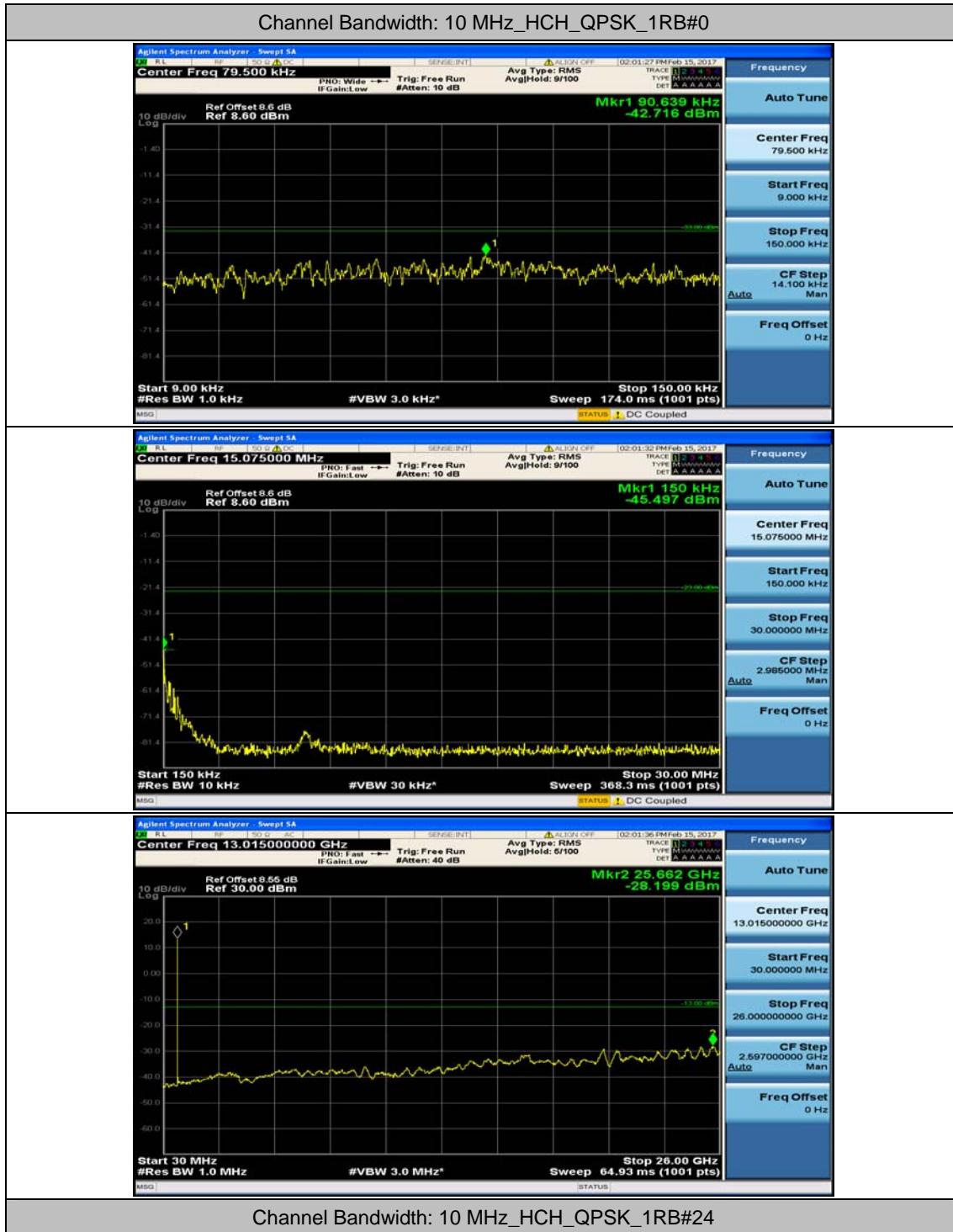


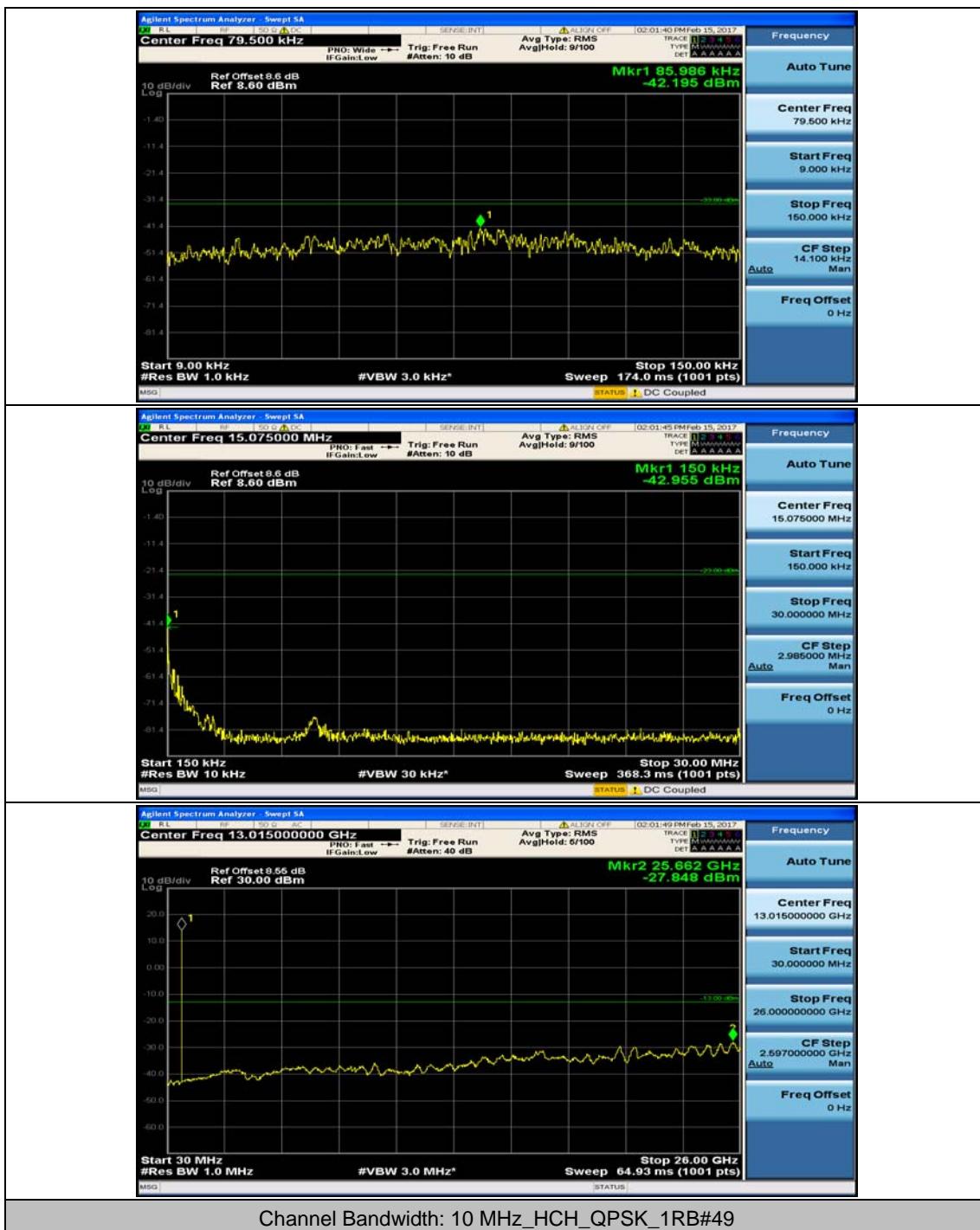


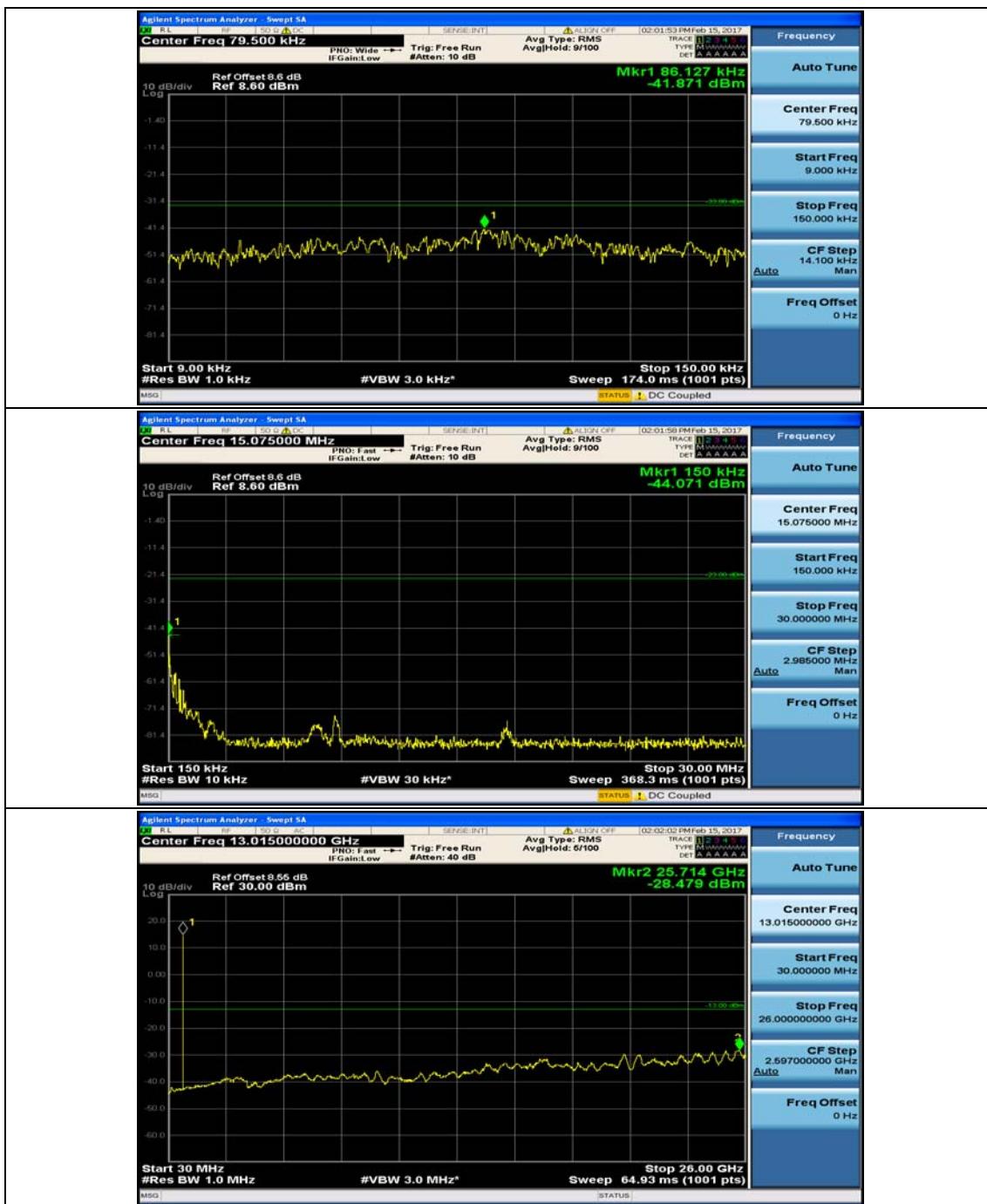


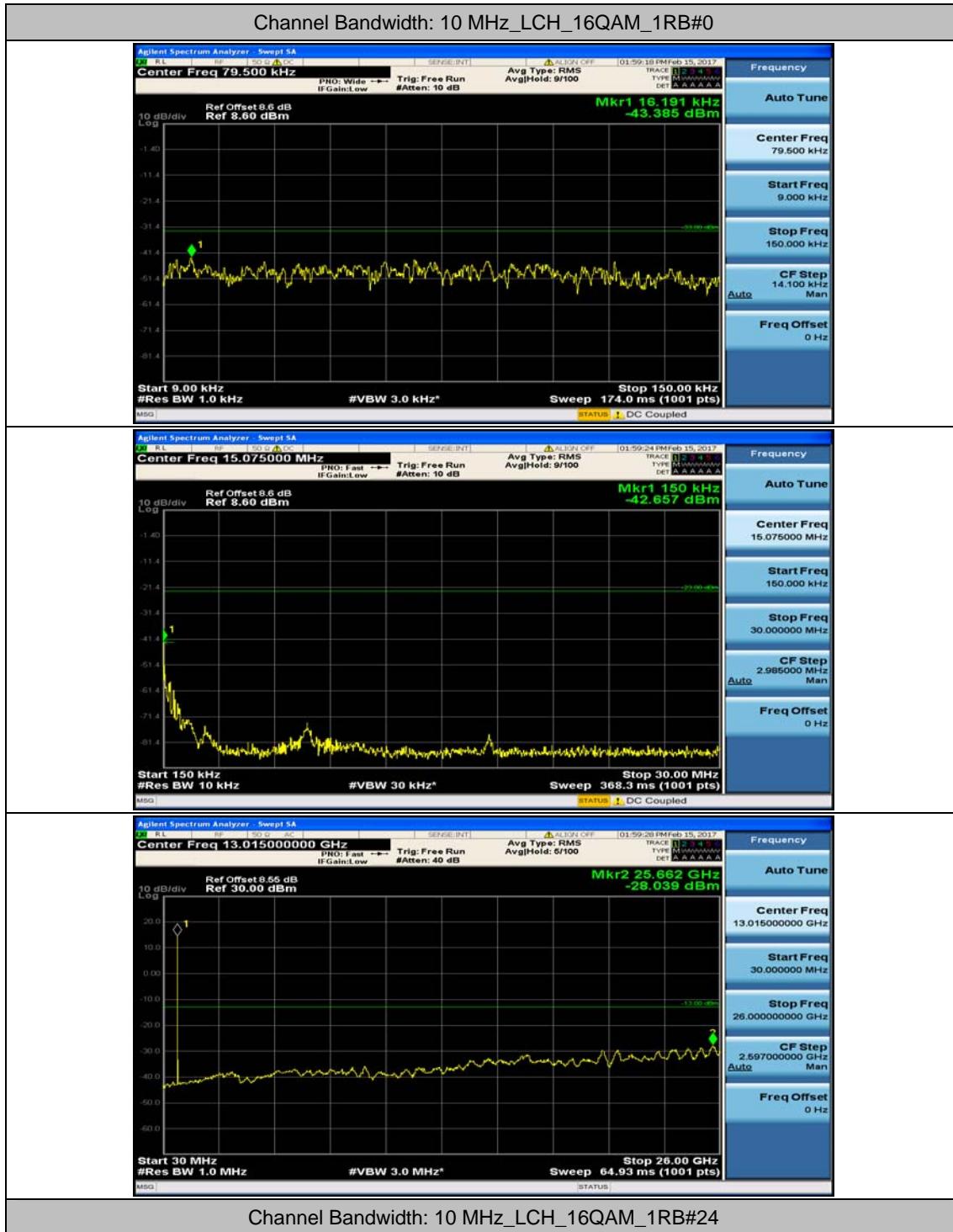


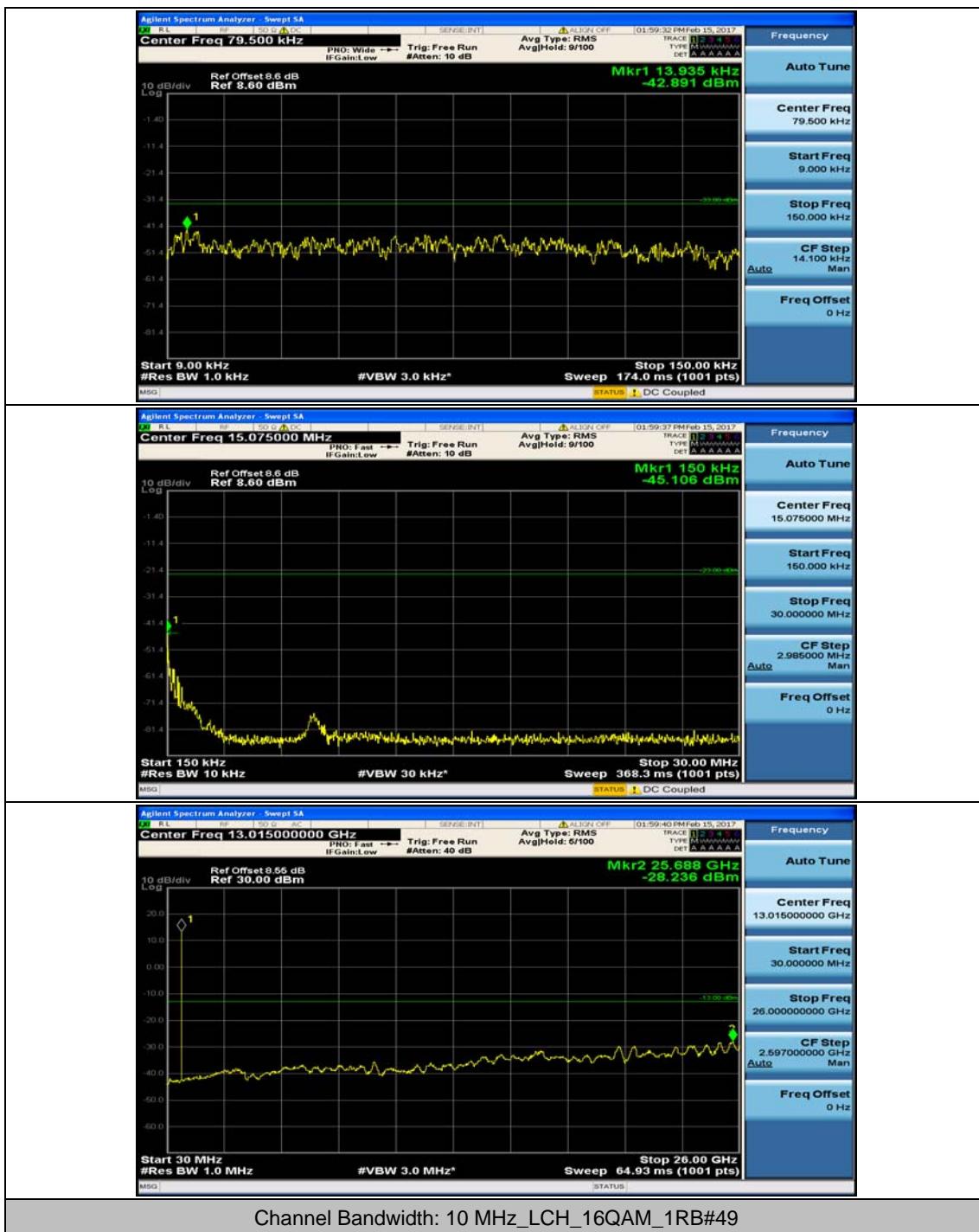


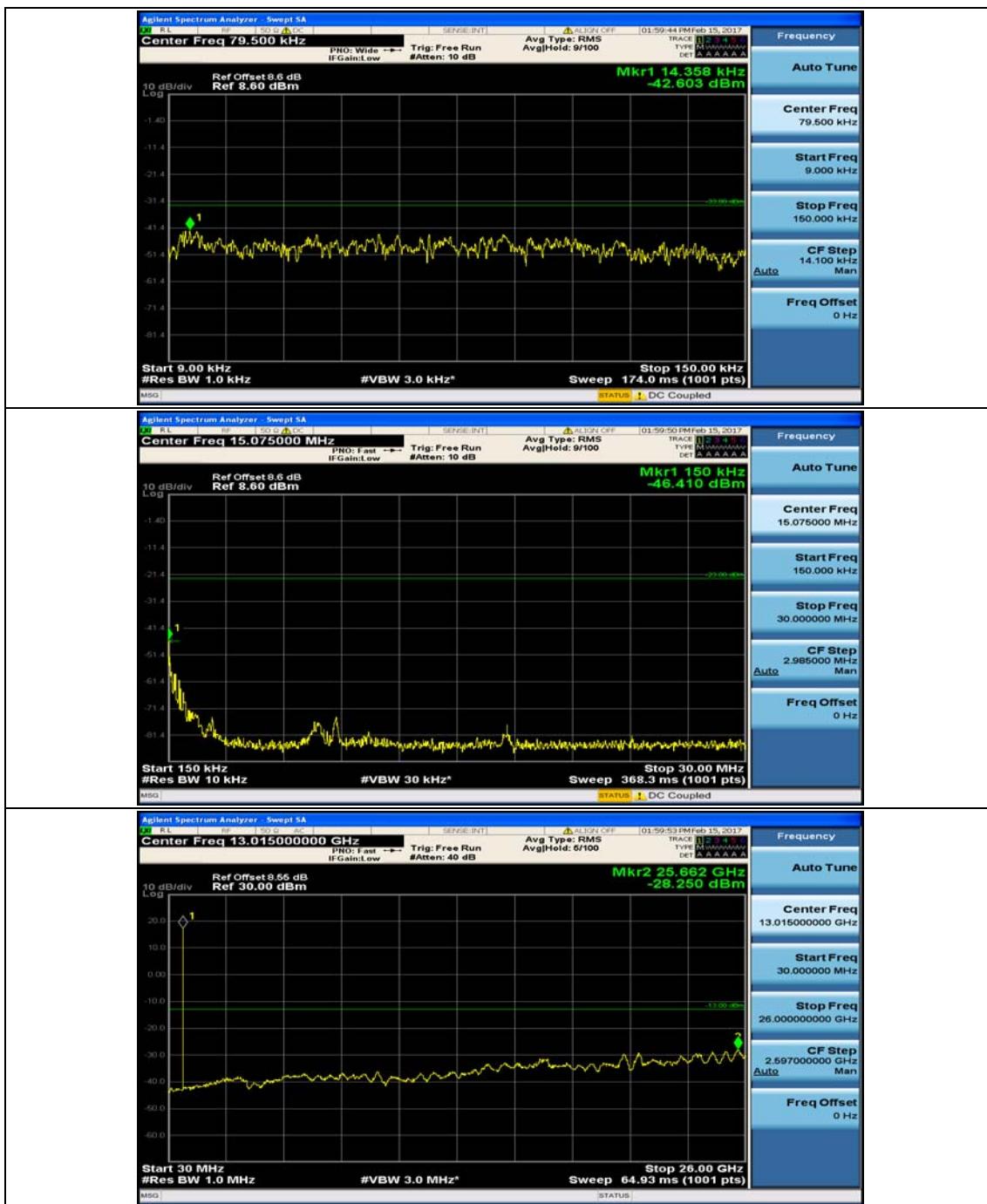


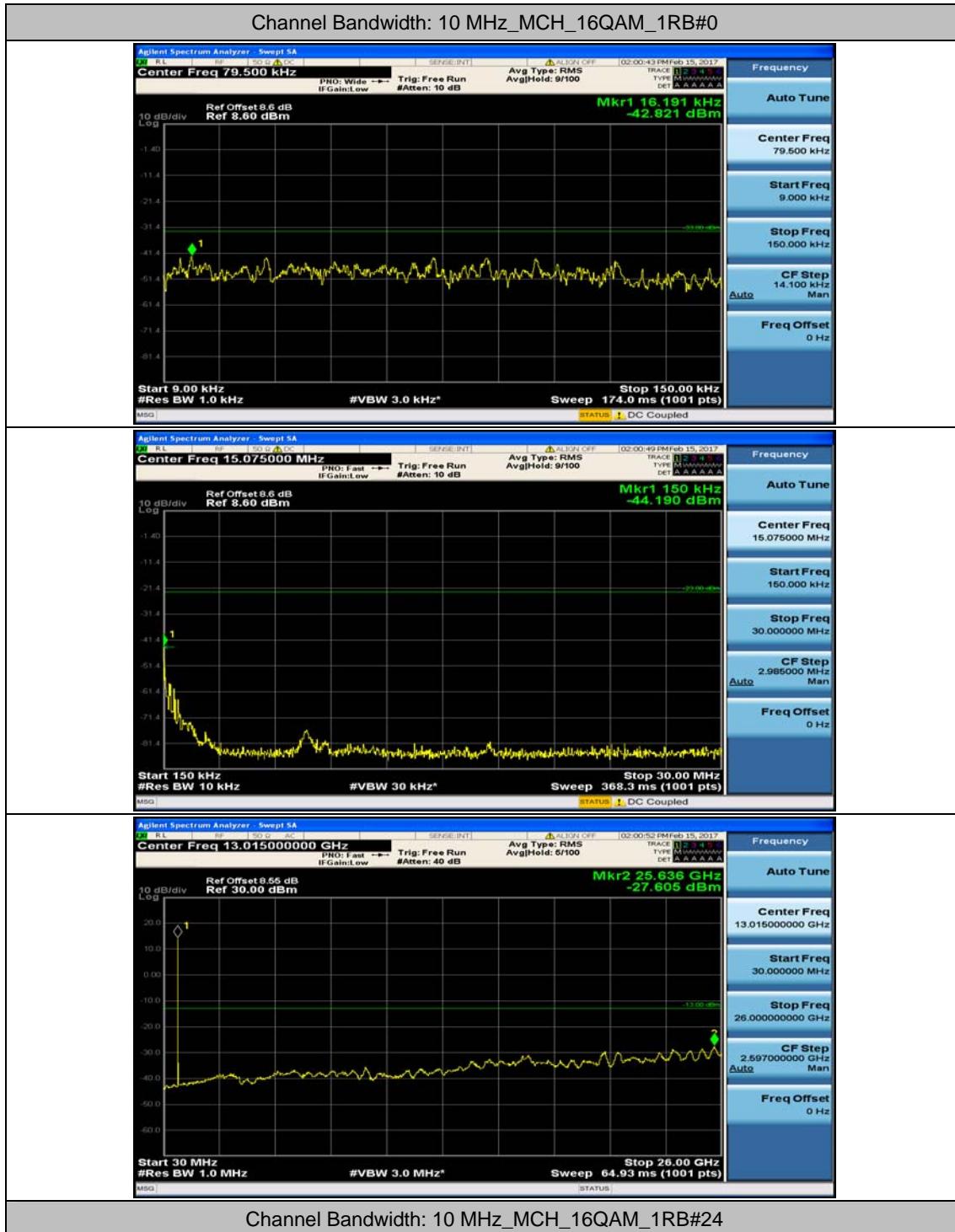


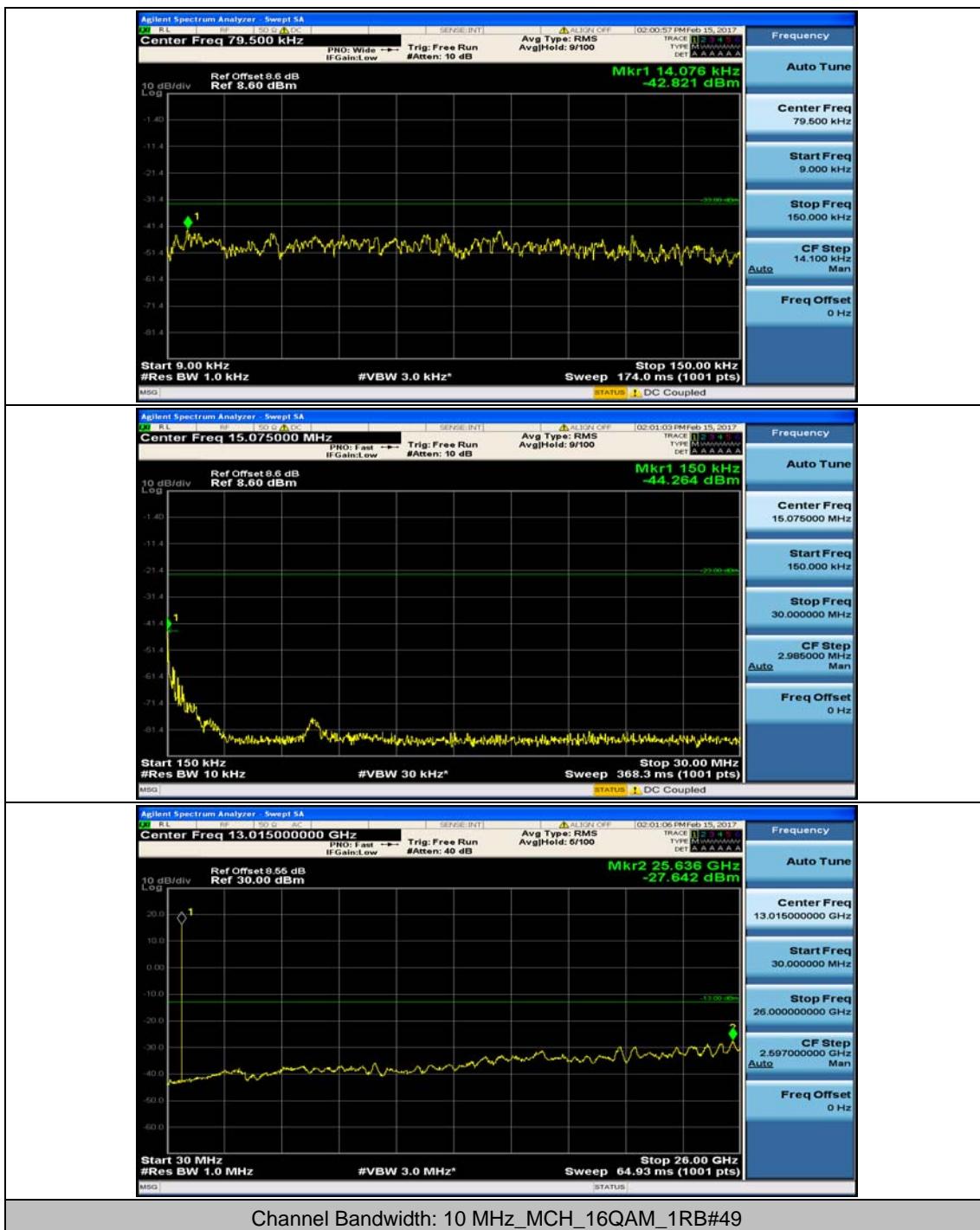


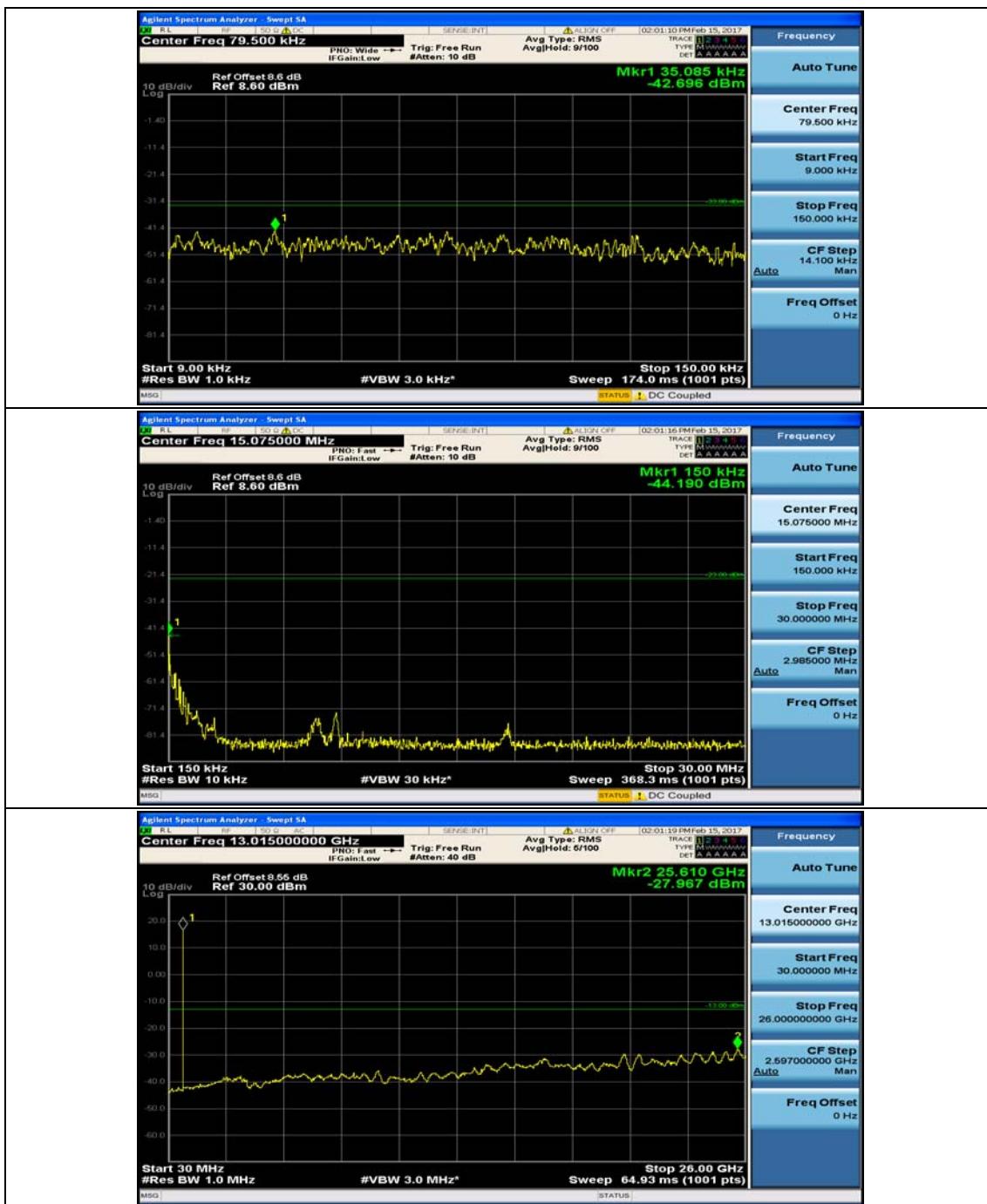


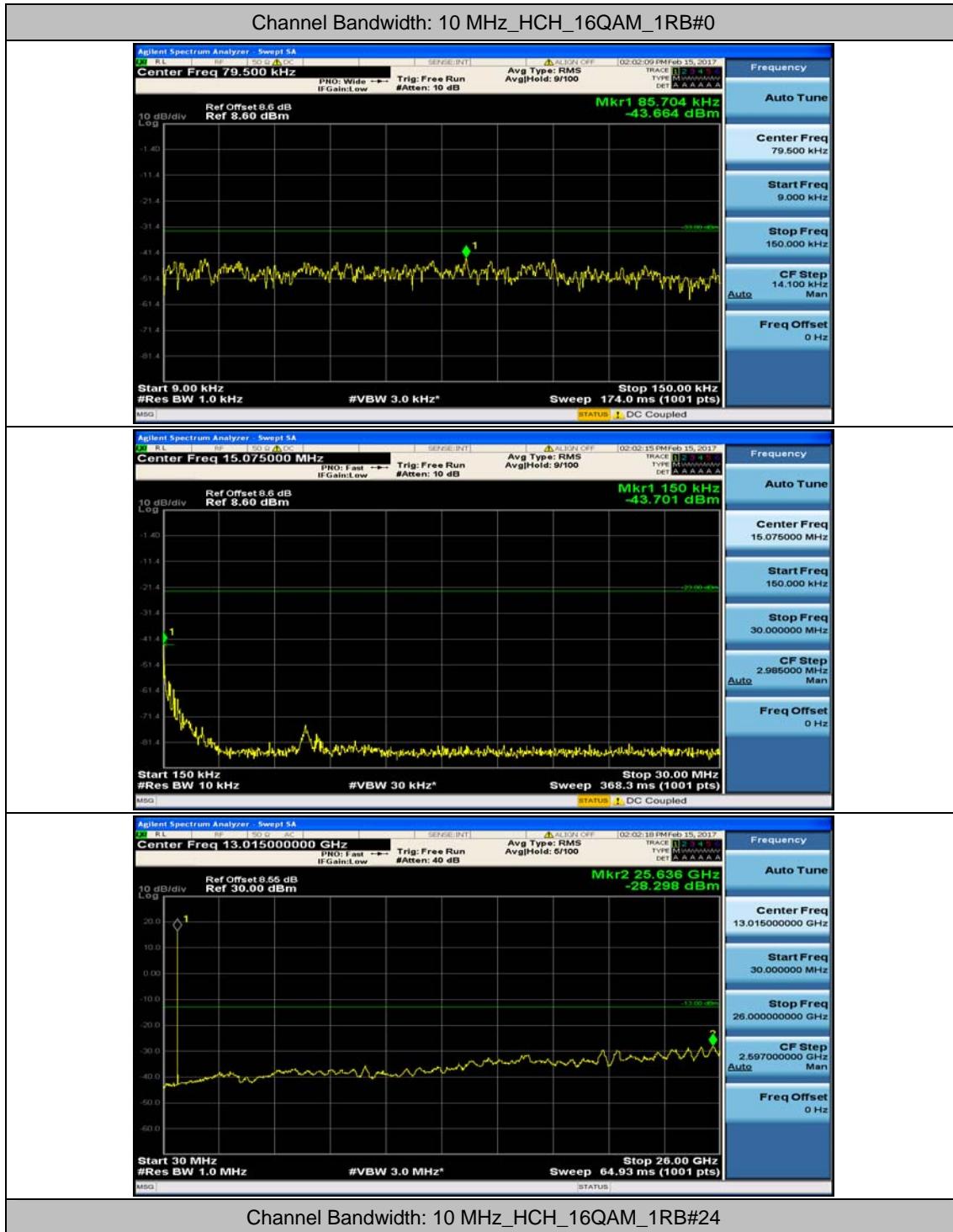


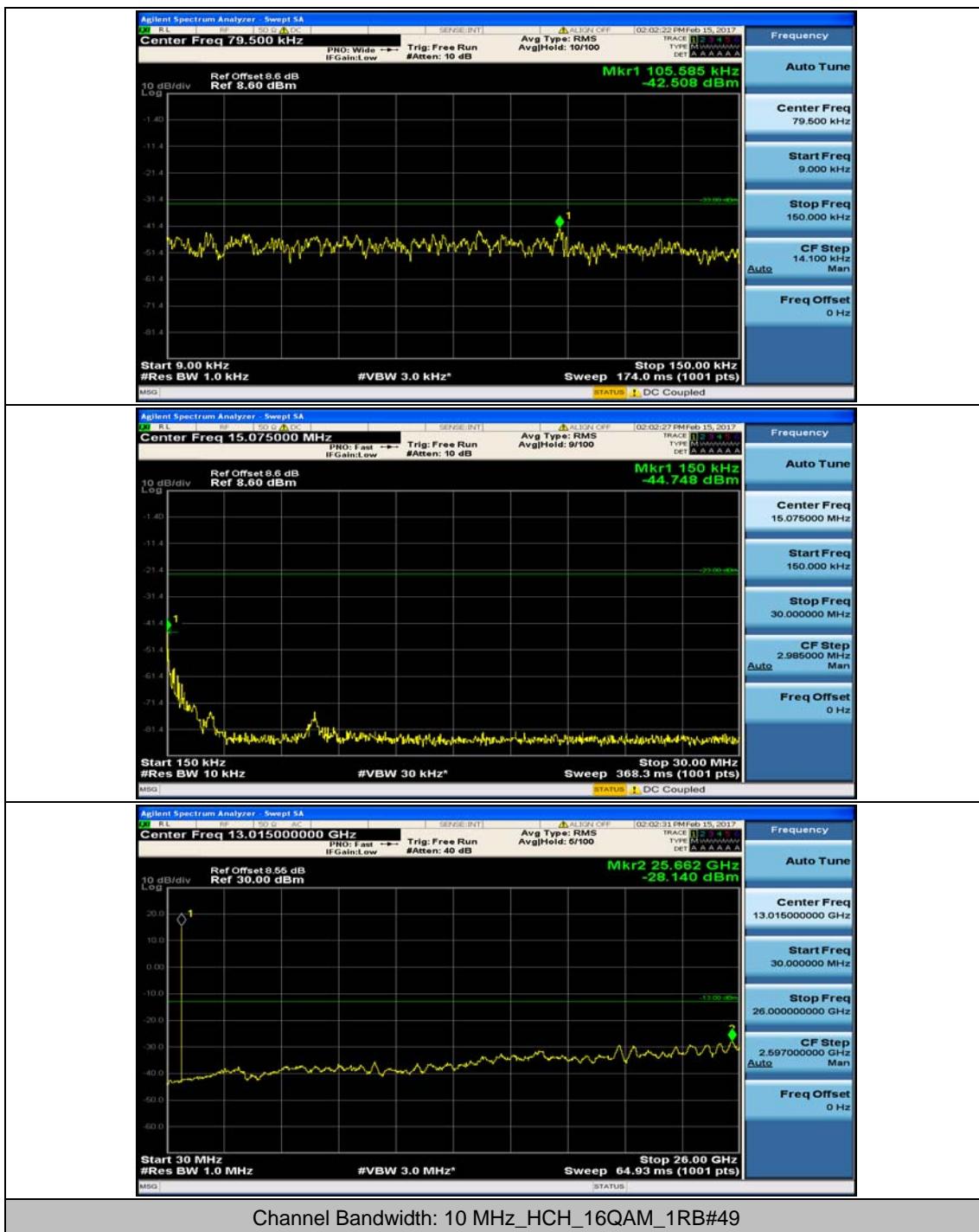


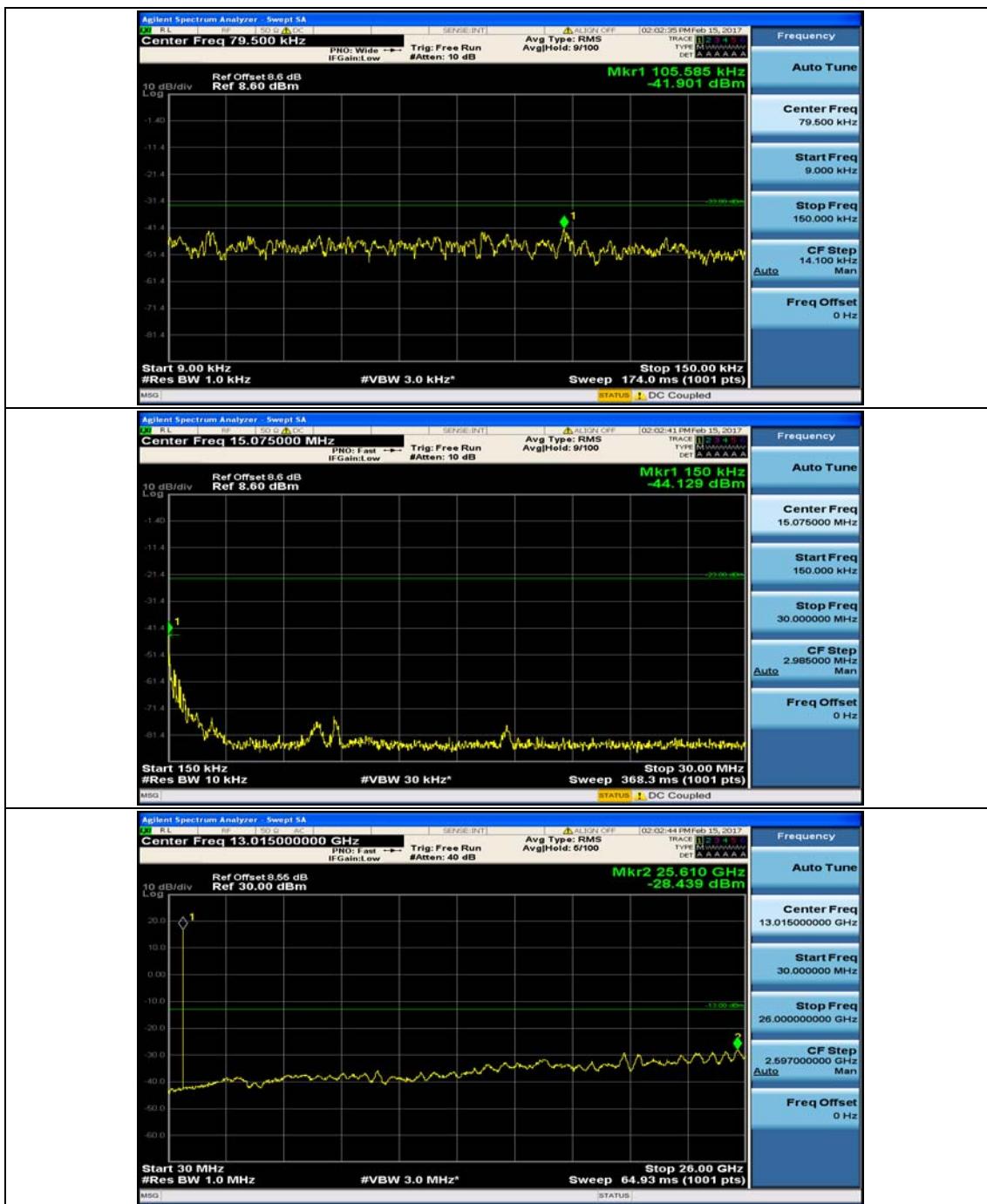












## Appendix F: Frequency Stability

### Test Result

#### Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	0.71	0.001005	± 2.5	PASS
		VN	TN	0.28	0.000396	± 2.5	PASS
		VH	TN	0.2	0.000283	± 2.5	PASS
	MCH	VL	TN	-1.1	-0.001549	± 2.5	PASS
		VN	TN	2.54	0.003577	± 2.5	PASS
		VH	TN	-0.12	-0.000169	± 2.5	PASS
	HCH	VL	TN	-0.65	-0.000911	± 2.5	PASS
		VN	TN	1.59	0.002228	± 2.5	PASS
		VH	TN	1.5	0.002102	± 2.5	PASS
16QAM	LCH	VL	TN	2.42	0.003425	± 2.5	PASS
		VN	TN	2.4	0.003397	± 2.5	PASS
		VH	TN	1.26	0.001783	± 2.5	PASS
	MCH	VL	TN	4.37	0.006155	± 2.5	PASS
		VN	TN	-0.87	-0.001225	± 2.5	PASS
		VH	TN	0.63	0.000887	± 2.5	PASS
	HCH	VL	TN	-0.91	-0.001275	± 2.5	PASS
		VN	TN	0.68	0.000953	± 2.5	PASS
		VH	TN	-0.65	-0.000911	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	0.58	0.000821	± 2.5	PASS
		VN	-20	-0.48	-0.000679	± 2.5	PASS
		VN	-10	2.66	0.003765	± 2.5	PASS
		VN	0	0.14	0.000198	± 2.5	PASS
		VN	10	4.57	0.006469	± 2.5	PASS
		VN	20	-0.9	-0.001274	± 2.5	PASS
		VN	30	0.15	0.000212	± 2.5	PASS
		VN	40	4.24	0.006001	± 2.5	PASS
		VN	50	0.78	0.001104	± 2.5	PASS
	MCH	VN	-30	-1.7	-0.002394	± 2.5	PASS
		VN	-20	0.25	0.000352	± 2.5	PASS
		VN	-10	3.45	0.004859	± 2.5	PASS

		VN	0	4.15	0.005845	$\pm 2.5$	PASS
		VN	10	2.74	0.003859	$\pm 2.5$	PASS
		VN	20	2.67	0.003761	$\pm 2.5$	PASS
		VN	30	2.56	0.003606	$\pm 2.5$	PASS
		VN	40	-0.82	-0.001155	$\pm 2.5$	PASS
		VN	50	2.75	0.003873	$\pm 2.5$	PASS
		VN	-30	4.01	0.005620	$\pm 2.5$	PASS
		VN	-20	-0.36	-0.000505	$\pm 2.5$	PASS
		VN	-10	0.38	0.000533	$\pm 2.5$	PASS
		VN	0	2.44	0.003420	$\pm 2.5$	PASS
		VN	10	-0.98	-0.001374	$\pm 2.5$	PASS
		VN	20	3.99	0.005592	$\pm 2.5$	PASS
		VN	30	0.25	0.000350	$\pm 2.5$	PASS
		VN	40	3.86	0.005410	$\pm 2.5$	PASS
		VN	50	2.58	0.003616	$\pm 2.5$	PASS
	HCH	VN	-30	1.24	0.001755	$\pm 2.5$	PASS
		VN	-20	0.03	0.000042	$\pm 2.5$	PASS
		VN	-10	0.86	0.001217	$\pm 2.5$	PASS
		VN	0	2.25	0.003185	$\pm 2.5$	PASS
		VN	10	1.03	0.001458	$\pm 2.5$	PASS
		VN	20	0.31	0.000439	$\pm 2.5$	PASS
		VN	30	0.64	0.000906	$\pm 2.5$	PASS
		VN	40	0.24	0.000340	$\pm 2.5$	PASS
		VN	50	-0.39	-0.000552	$\pm 2.5$	PASS
	LCH	VN	-30	3.57	0.005004	$\pm 2.5$	PASS
		VN	-20	-0.95	-0.001331	$\pm 2.5$	PASS
		VN	-10	3.66	0.005130	$\pm 2.5$	PASS
		VN	0	2.59	0.003630	$\pm 2.5$	PASS
		VN	10	4.33	0.006069	$\pm 2.5$	PASS
		VN	20	0.77	0.001079	$\pm 2.5$	PASS
		VN	30	3.41	0.004779	$\pm 2.5$	PASS
		VN	40	0.91	0.001275	$\pm 2.5$	PASS
		VN	50	1.12	0.001570	$\pm 2.5$	PASS
	MCH	VN	-30	-0.09	-0.000126	$\pm 2.5$	PASS
		VN	-20	-1.99	-0.002789	$\pm 2.5$	PASS
		VN	-10	1.23	0.001724	$\pm 2.5$	PASS
		VN	0	0.86	0.001205	$\pm 2.5$	PASS
		VN	10	3.59	0.005032	$\pm 2.5$	PASS
		VN	20	3.45	0.004835	$\pm 2.5$	PASS
		VN	30	-0.17	-0.000238	$\pm 2.5$	PASS
		VN	40	-0.43	-0.000603	$\pm 2.5$	PASS

		VN	50	-1.22	-0.001710	$\pm 2.5$	PASS
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## 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	3.96	0.005585	$\pm 2.5$	PASS
		VN	TN	-1.2	-0.001693	$\pm 2.5$	PASS
		VH	TN	4.55	0.006417	$\pm 2.5$	PASS
	MCH	VL	TN	0.14	0.000197	$\pm 2.5$	PASS
		VN	TN	0.25	0.000352	$\pm 2.5$	PASS
		VH	TN	4.1	0.005775	$\pm 2.5$	PASS
	HCH	VL	TN	-1.39	-0.001955	$\pm 2.5$	PASS
		VN	TN	0.23	0.000323	$\pm 2.5$	PASS
		VH	TN	-0.85	-0.001195	$\pm 2.5$	PASS
16QAM	LCH	VL	TN	-1.63	-0.002299	$\pm 2.5$	PASS
		VN	TN	3.32	0.004683	$\pm 2.5$	PASS
		VH	TN	-0.07	-0.000099	$\pm 2.5$	PASS
	MCH	VL	TN	0.56	0.000789	$\pm 2.5$	PASS
		VN	TN	1.12	0.001577	$\pm 2.5$	PASS
		VH	TN	2.97	0.004183	$\pm 2.5$	PASS
	HCH	VL	TN	0.97	0.001364	$\pm 2.5$	PASS
		VN	TN	2.77	0.003896	$\pm 2.5$	PASS
		VH	TN	2.01	0.002827	$\pm 2.5$	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
16QAM	LCH	VN	-30	1.87	0.002638	$\pm 2.5$	PASS
		VN	-20	2.99	0.004217	$\pm 2.5$	PASS
		VN	-10	0.12	0.000169	$\pm 2.5$	PASS
		VN	0	4.13	0.005825	$\pm 2.5$	PASS
		VN	10	3.52	0.004965	$\pm 2.5$	PASS
		VN	20	3.62	0.005106	$\pm 2.5$	PASS
		VN	30	-1.5	-0.002116	$\pm 2.5$	PASS
		VN	40	-1.42	-0.002003	$\pm 2.5$	PASS
		VN	50	-0.45	-0.000635	$\pm 2.5$	PASS
	MCH	VN	-30	-1.79	-0.002521	$\pm 2.5$	PASS
		VN	-20	4.75	0.006690	$\pm 2.5$	PASS
		VN	-10	-0.12	-0.000169	$\pm 2.5$	PASS
		VN	0	4.71	0.006634	$\pm 2.5$	PASS

		VN	10	0.2	0.000282	$\pm 2.5$	PASS
		VN	20	-1.67	-0.002352	$\pm 2.5$	PASS
		VN	30	-0.18	-0.000254	$\pm 2.5$	PASS
		VN	40	1.23	0.001732	$\pm 2.5$	PASS
		VN	50	-0.55	-0.000775	$\pm 2.5$	PASS
		VN	-30	2.81	0.003952	$\pm 2.5$	PASS
		VN	-20	0.47	0.000661	$\pm 2.5$	PASS
		VN	-10	0.64	0.000900	$\pm 2.5$	PASS
		VN	0	0.42	0.000591	$\pm 2.5$	PASS
		VN	10	0.1	0.000141	$\pm 2.5$	PASS
		VN	20	2.61	0.003671	$\pm 2.5$	PASS
		VN	30	1.67	0.002349	$\pm 2.5$	PASS
		VN	40	1.65	0.002321	$\pm 2.5$	PASS
		VN	50	1.68	0.002363	$\pm 2.5$	PASS
		VN	-30	-1.11	-0.001563	$\pm 2.5$	PASS
		VN	-20	0.27	0.000380	$\pm 2.5$	PASS
		VN	-10	-1.48	-0.002085	$\pm 2.5$	PASS
		VN	0	3.46	0.004873	$\pm 2.5$	PASS
		VN	10	3.96	0.005577	$\pm 2.5$	PASS
		VN	20	0.85	0.001197	$\pm 2.5$	PASS
		VN	30	1.4	0.001972	$\pm 2.5$	PASS
		VN	40	0.16	0.000225	$\pm 2.5$	PASS
		VN	50	4.02	0.005662	$\pm 2.5$	PASS
		VN	-30	-1.13	-0.001589	$\pm 2.5$	PASS
		VN	-20	1.16	0.001632	$\pm 2.5$	PASS
		VN	-10	4.99	0.007018	$\pm 2.5$	PASS
		VN	0	0.34	0.000478	$\pm 2.5$	PASS
		VN	10	2.89	0.004065	$\pm 2.5$	PASS
		VN	20	-0.18	-0.000253	$\pm 2.5$	PASS
		VN	30	-1.16	-0.001632	$\pm 2.5$	PASS
		VN	40	4.71	0.006624	$\pm 2.5$	PASS
		VN	50	1.84	0.002588	$\pm 2.5$	PASS
		VN	-30	4.69	0.006596	$\pm 2.5$	PASS
		VN	-20	-0.35	-0.000492	$\pm 2.5$	PASS
		VN	-10	4.73	0.006653	$\pm 2.5$	PASS
		VN	0	-0.28	-0.000394	$\pm 2.5$	PASS
		VN	10	2.06	0.002897	$\pm 2.5$	PASS
		VN	20	1.61	0.002264	$\pm 2.5$	PASS
		VN	30	-1.74	-0.002447	$\pm 2.5$	PASS
		VN	40	3.24	0.004557	$\pm 2.5$	PASS
		VN	50	0.09	0.000127	$\pm 2.5$	PASS