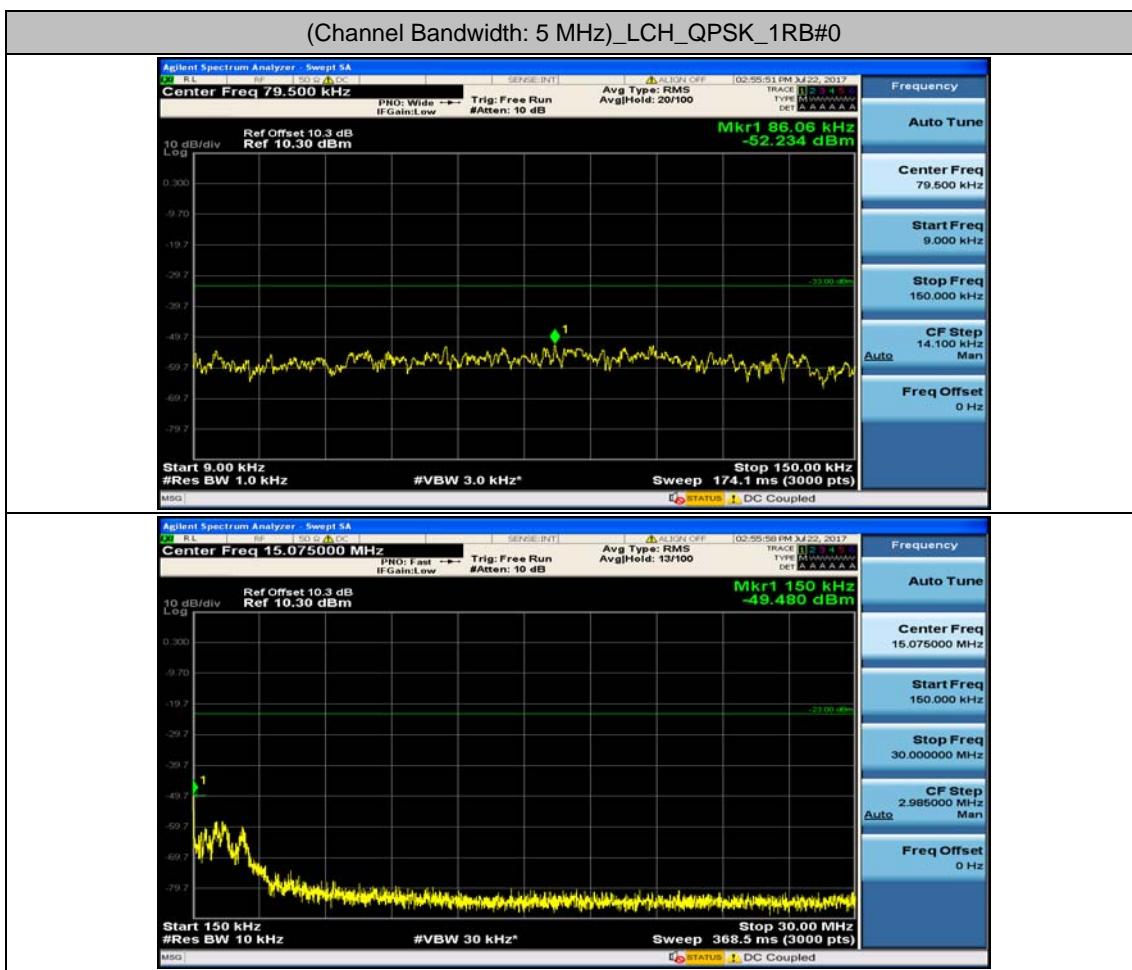
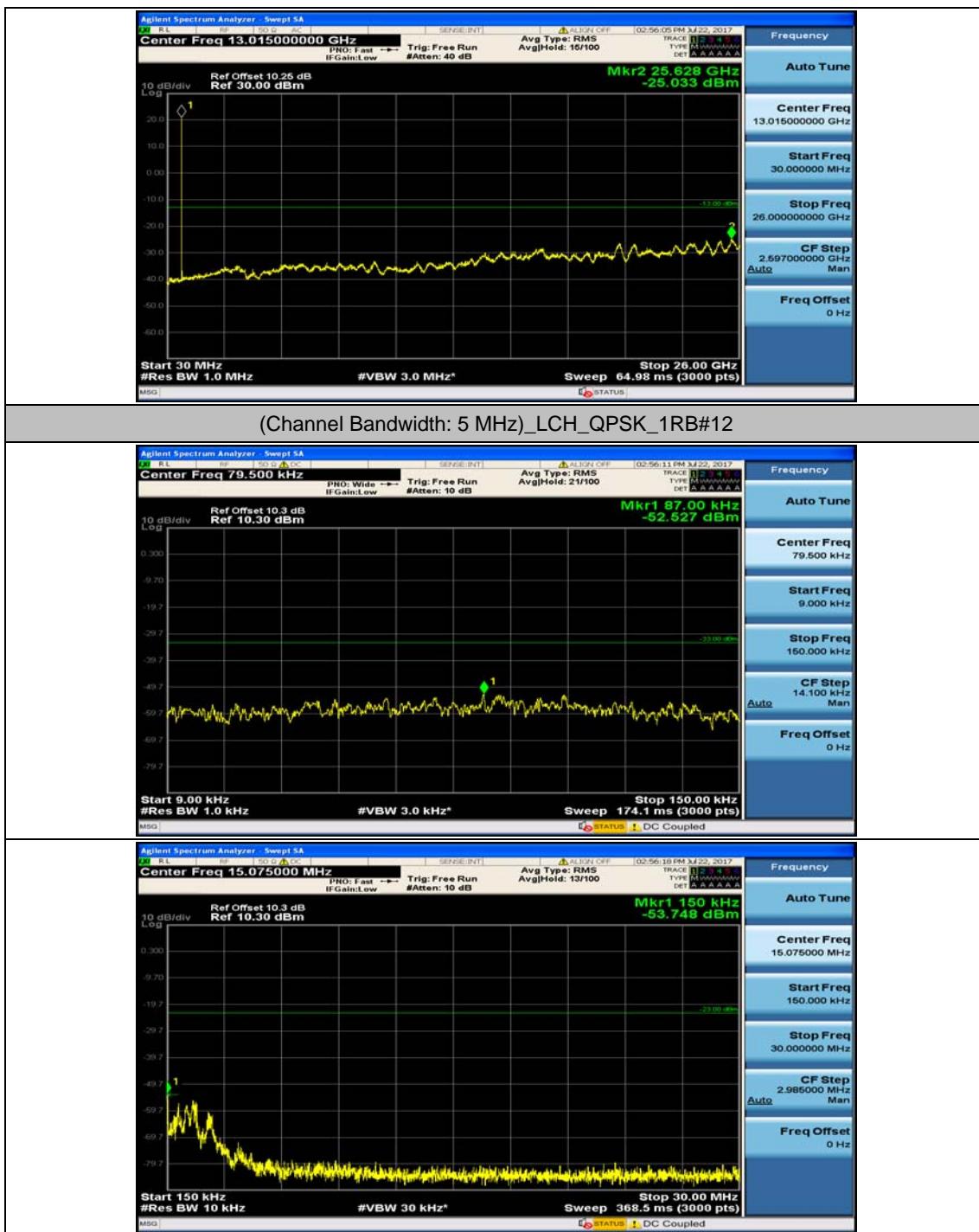


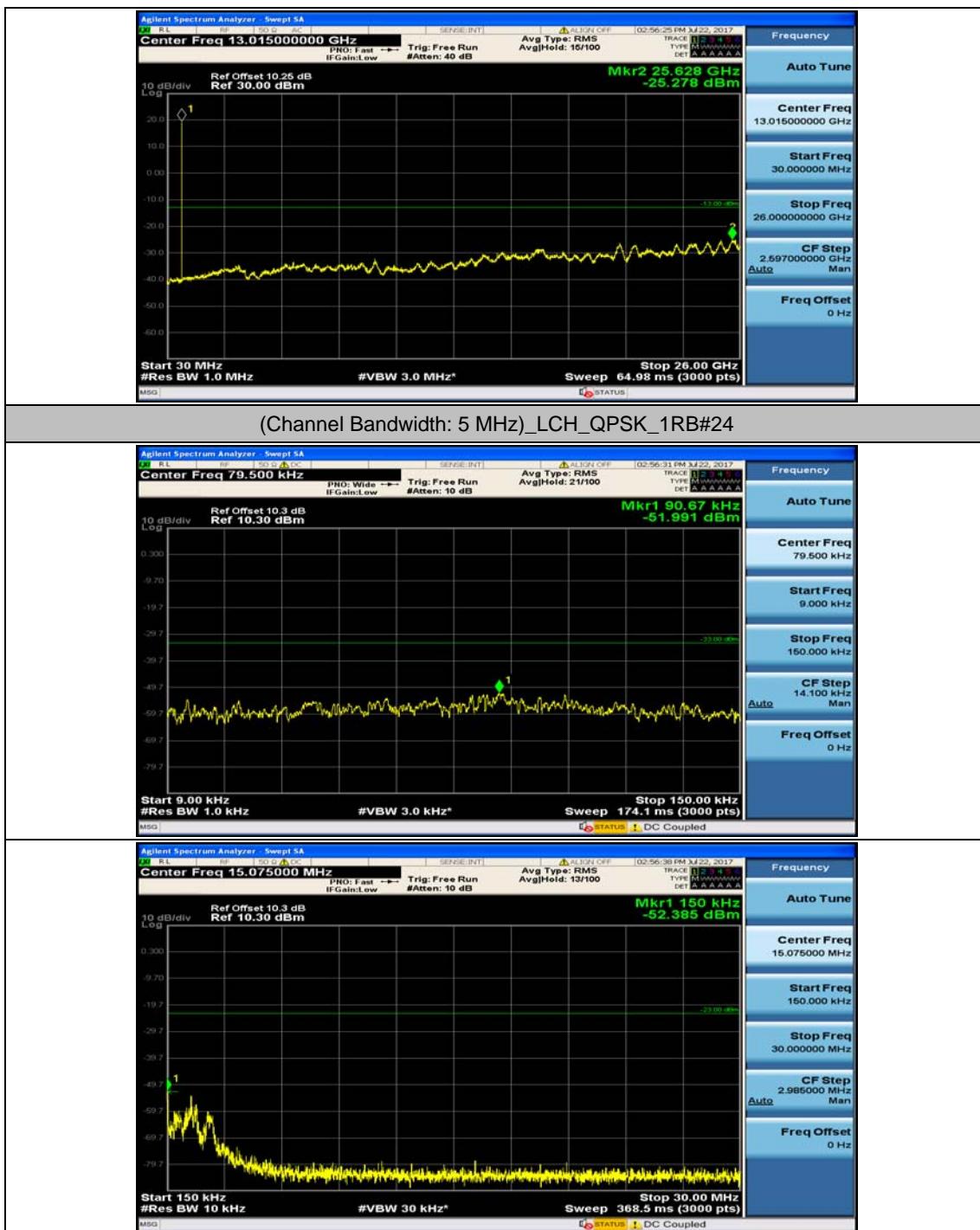
## Appendix E: Conducted Spurious Emission

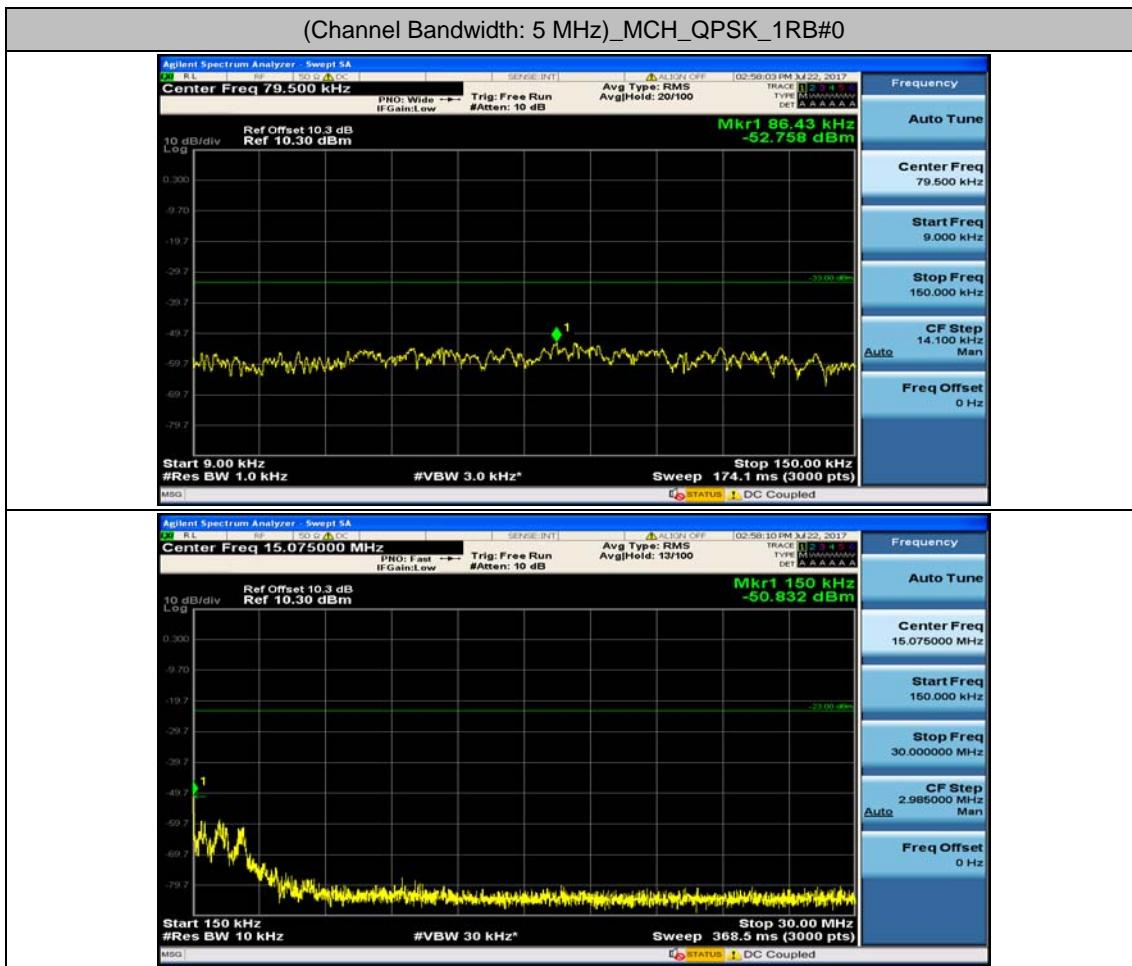
### Test Graphs

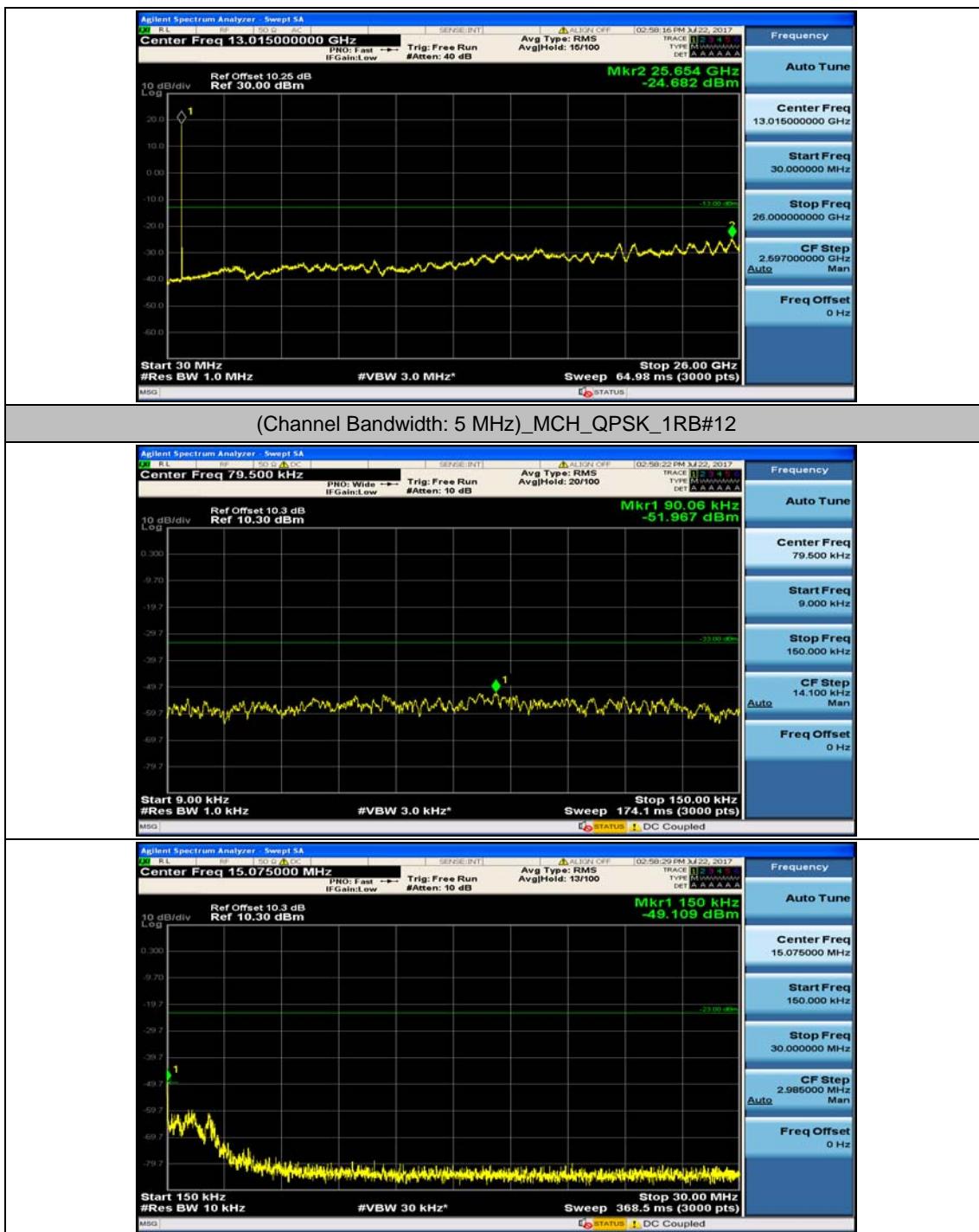
#### Channel Bandwidth: 5 MHz

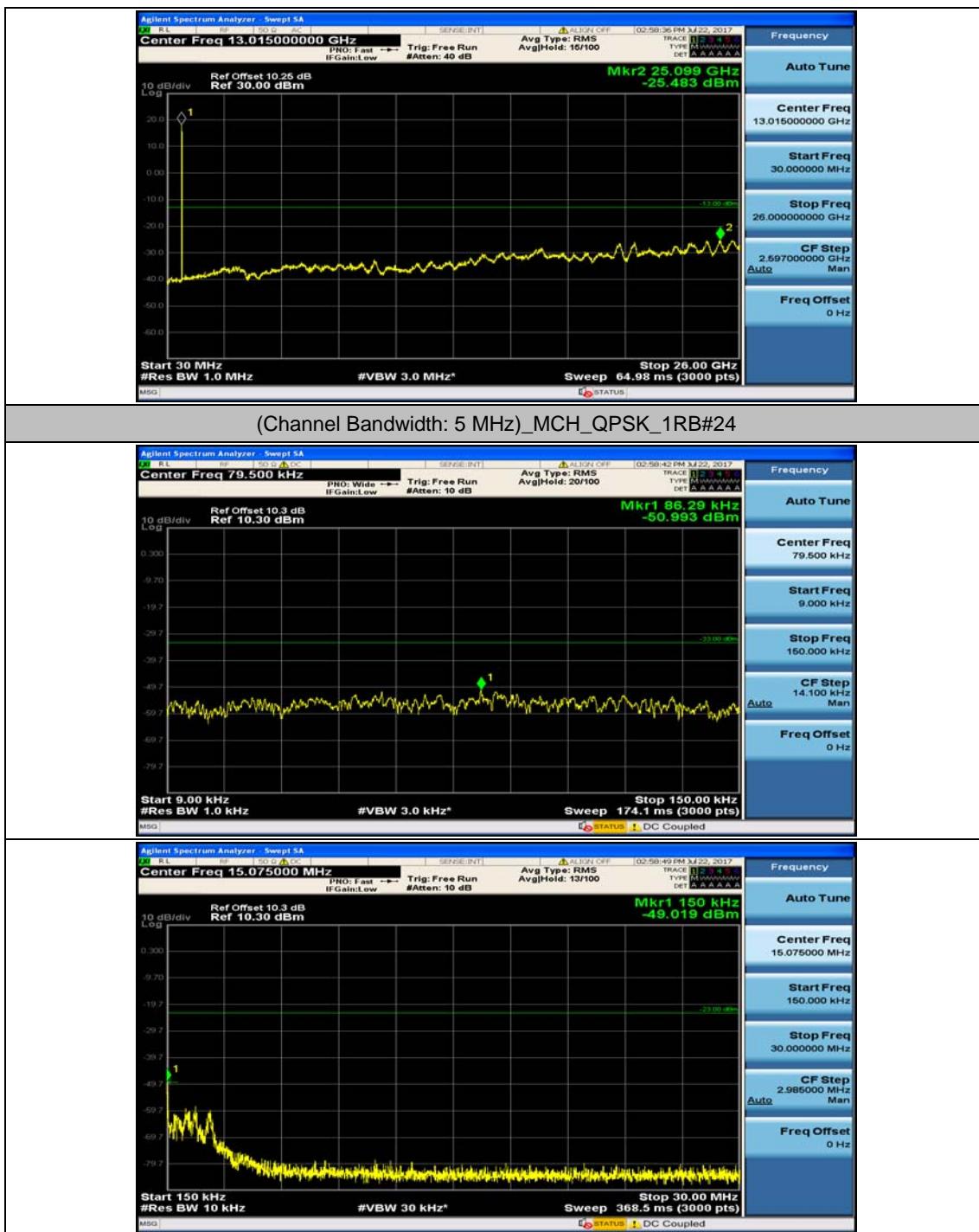


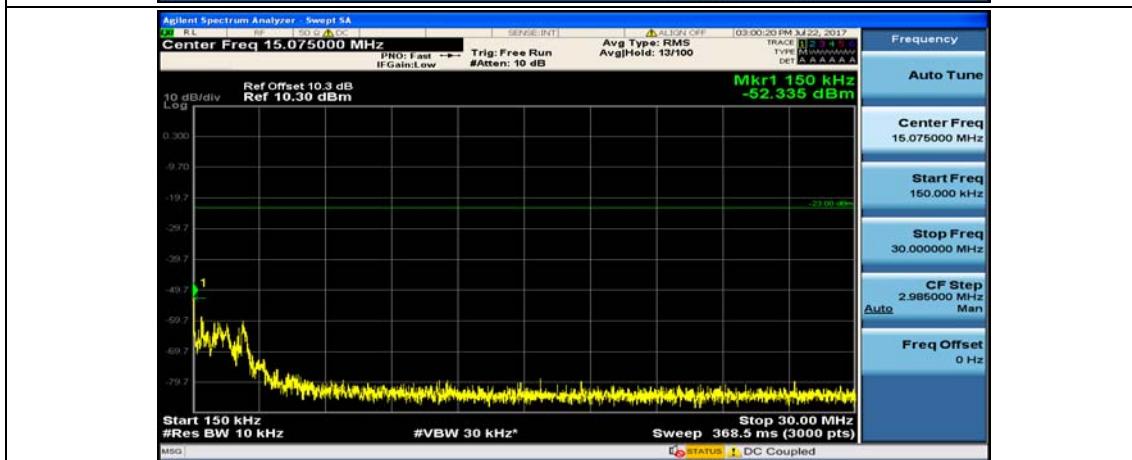
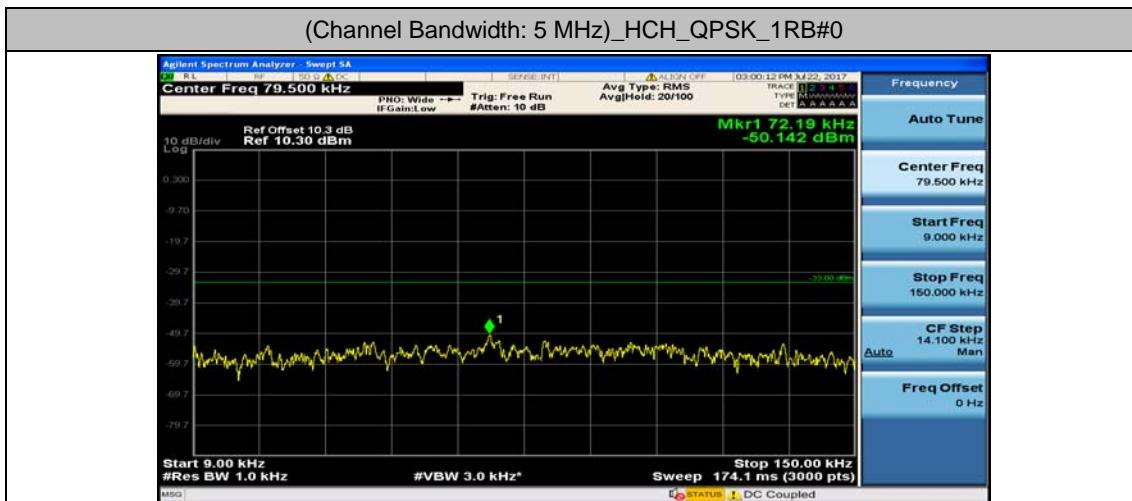


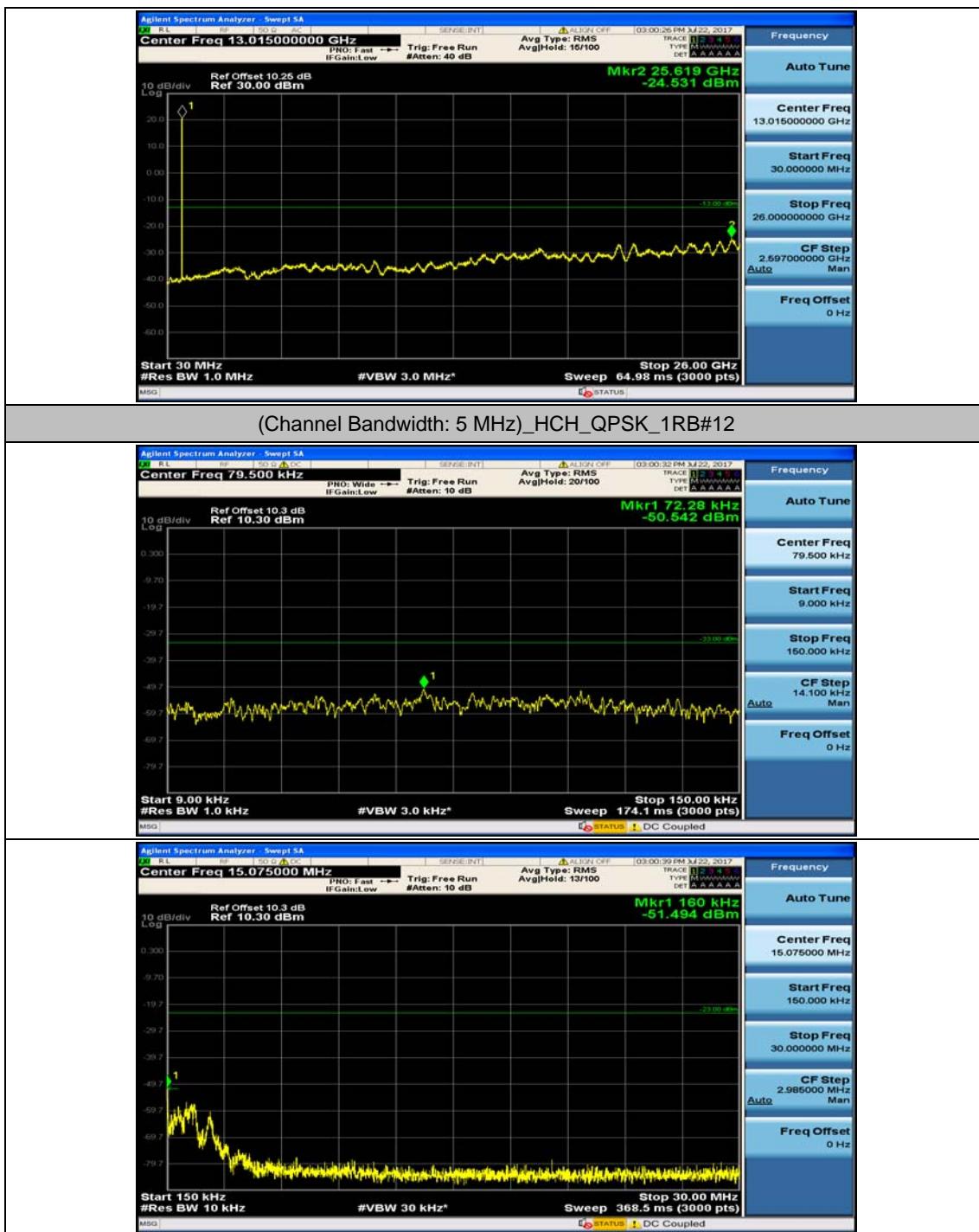


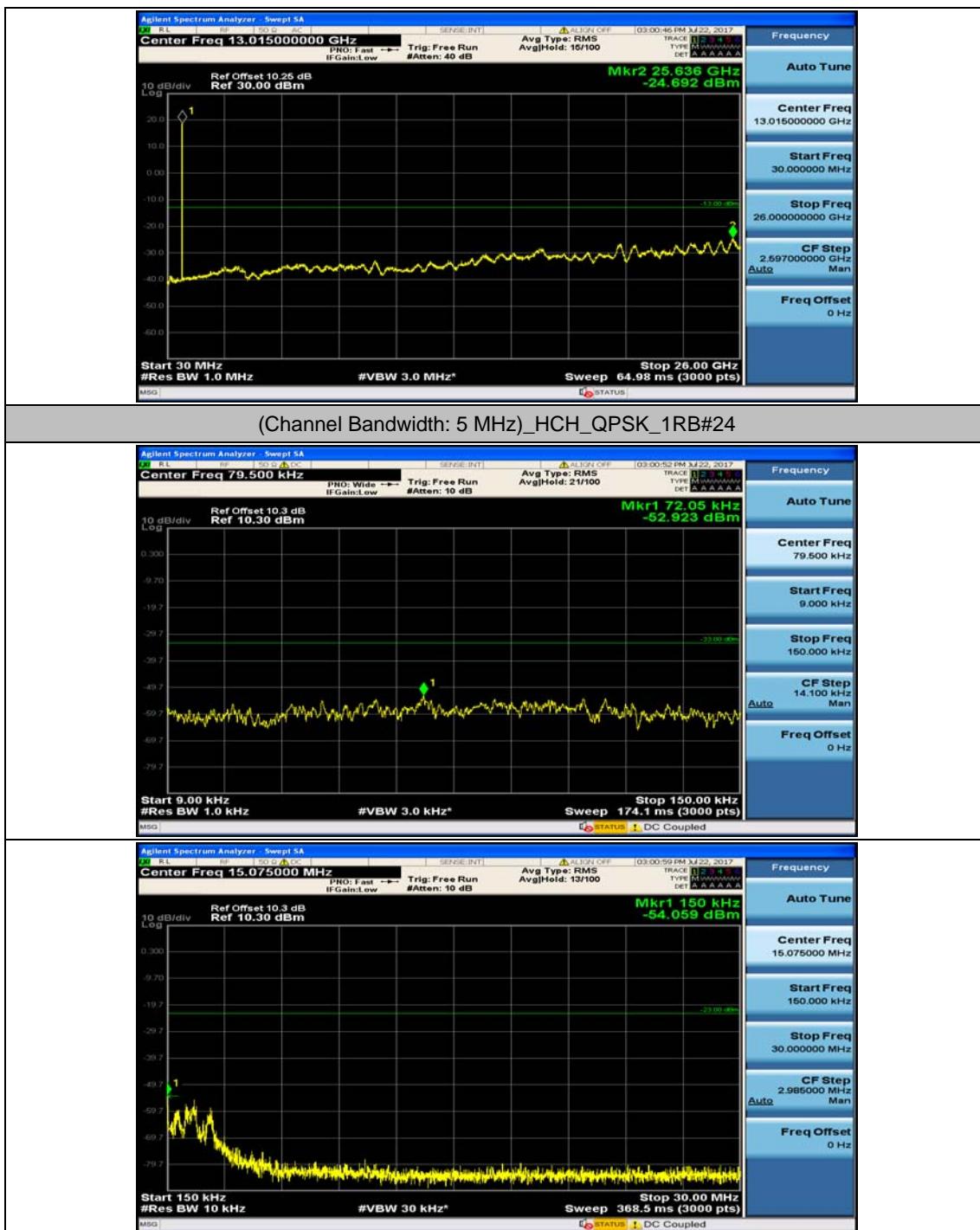


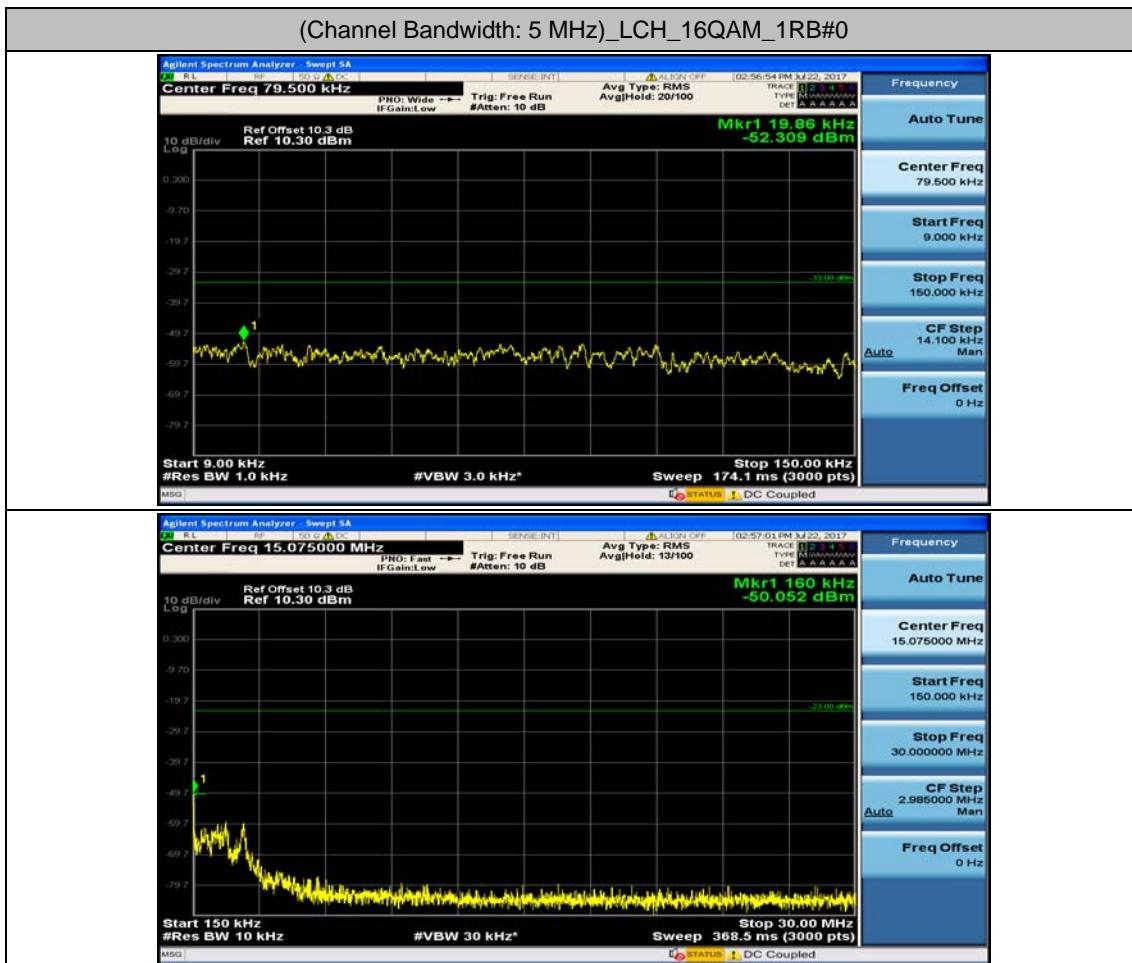
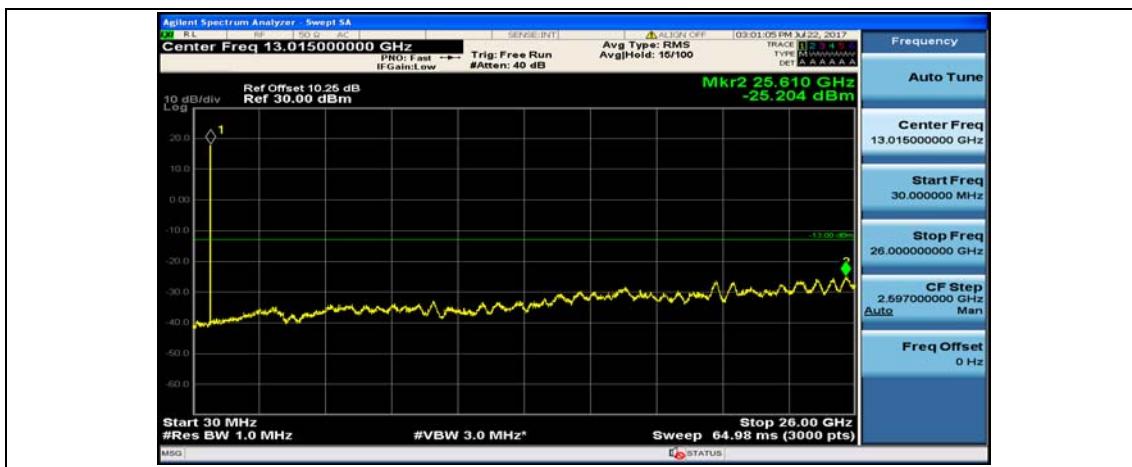


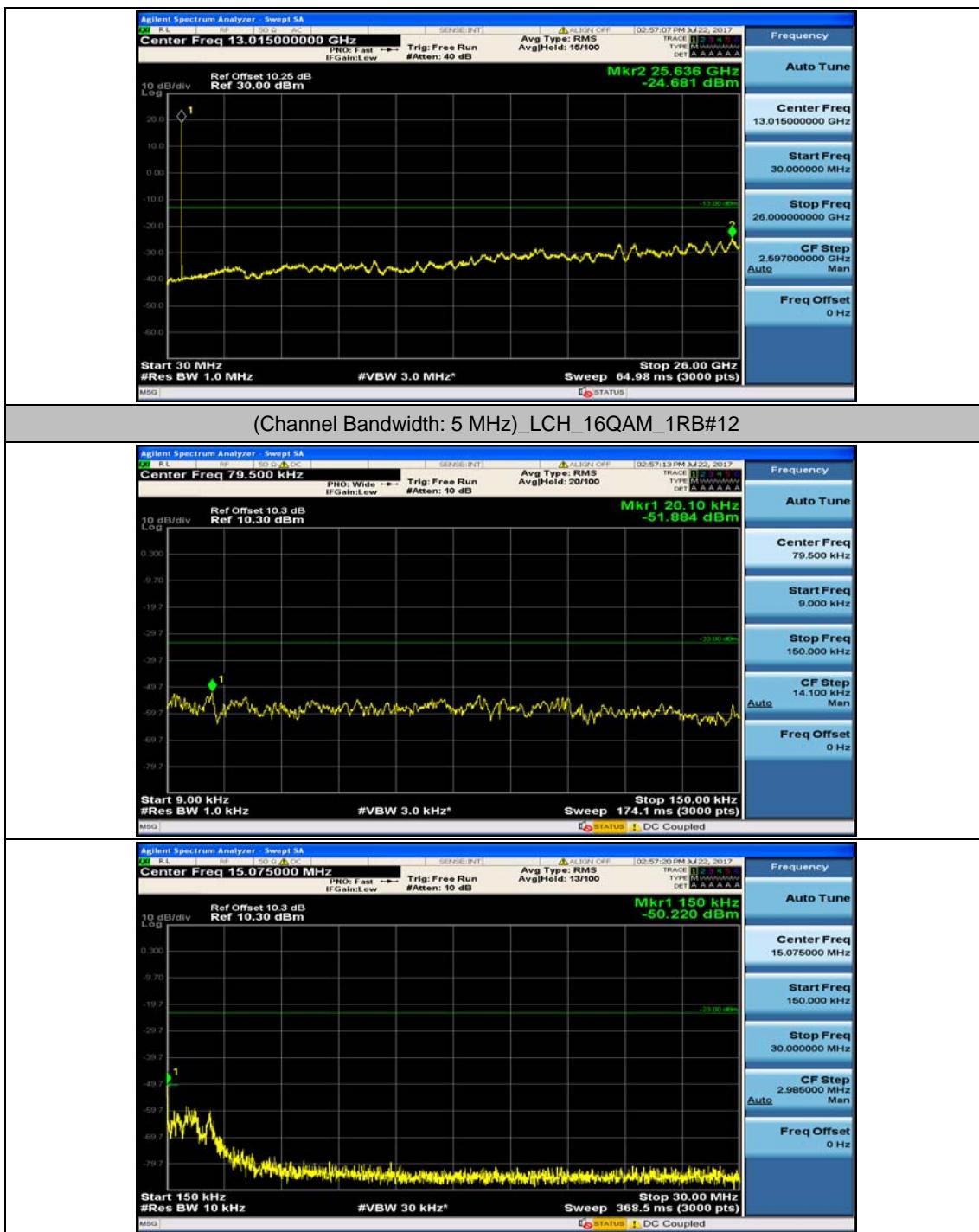


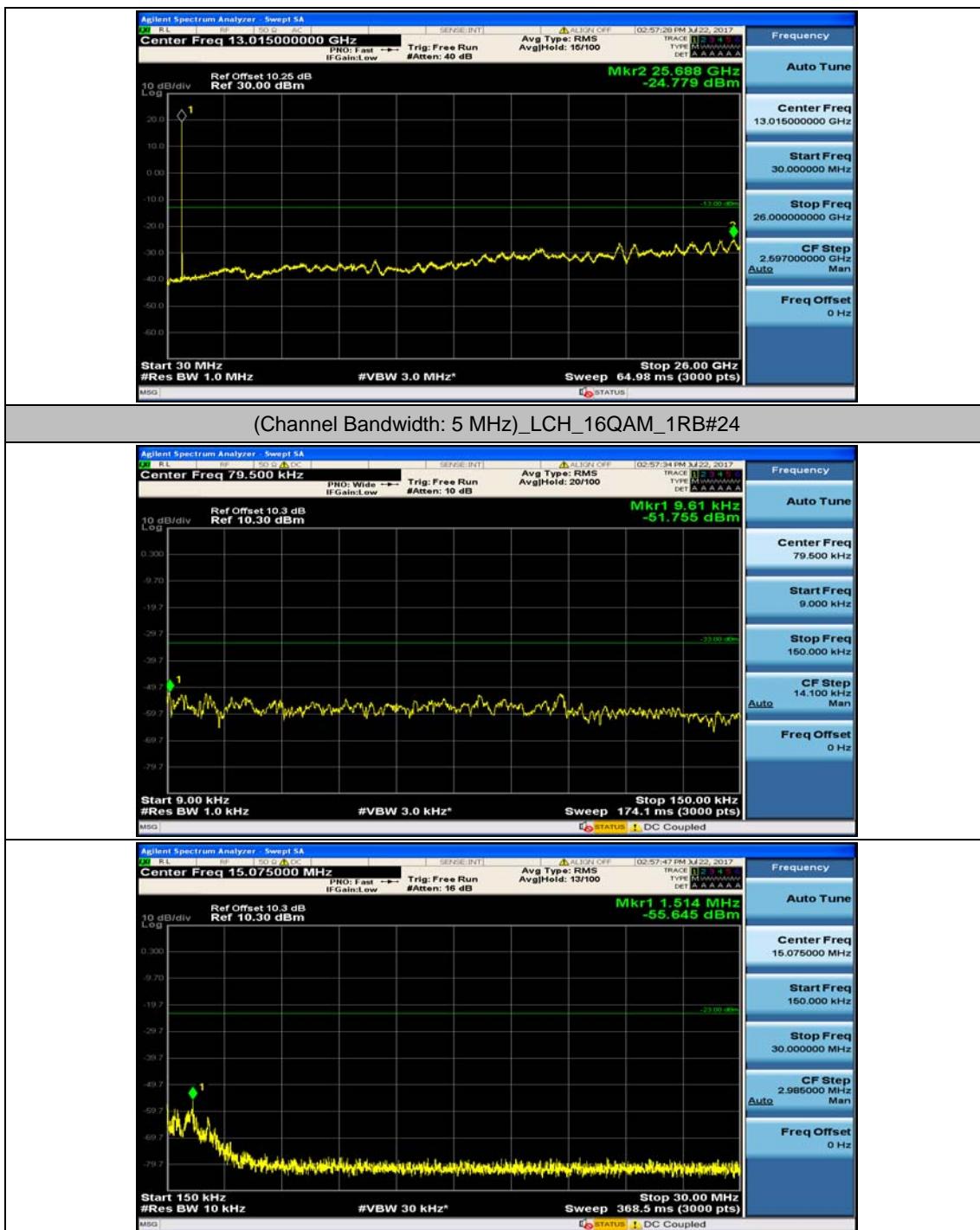


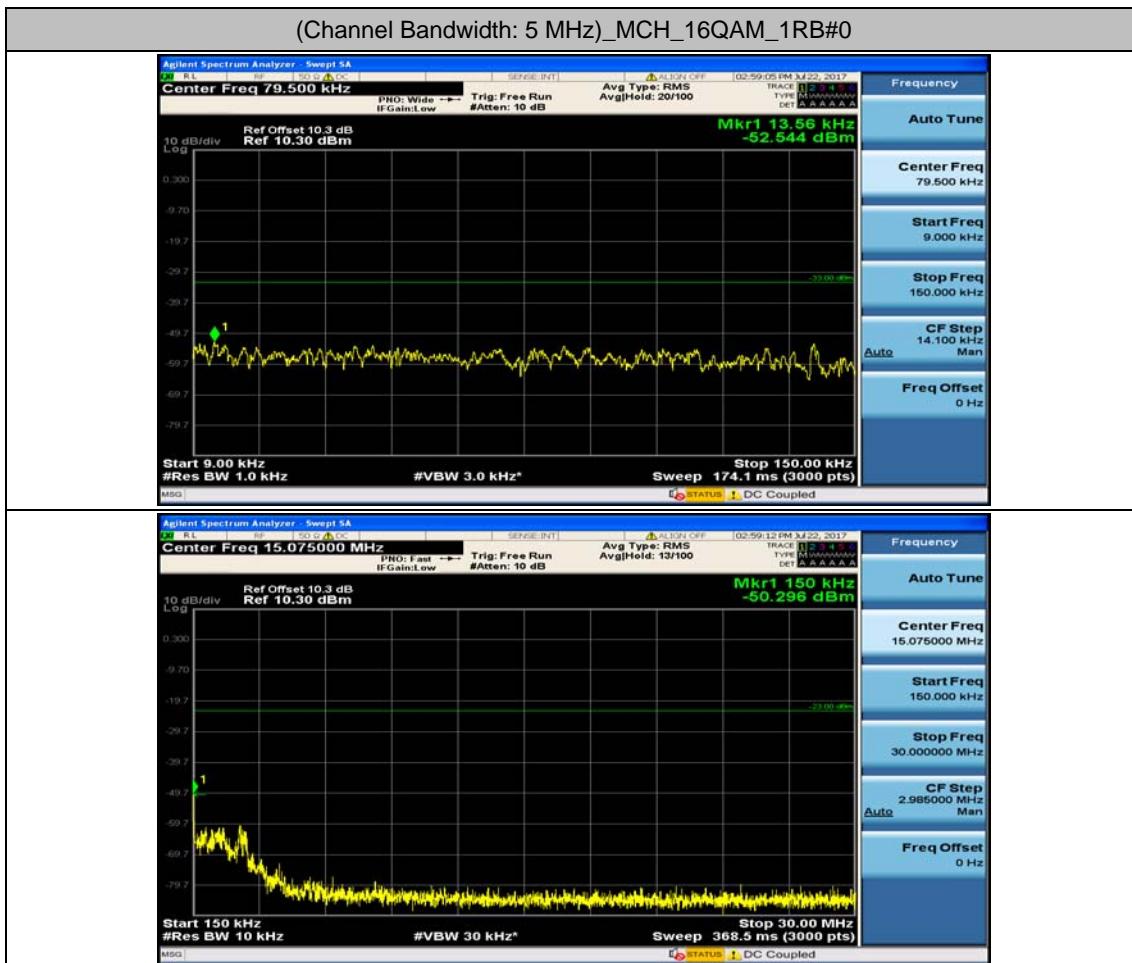
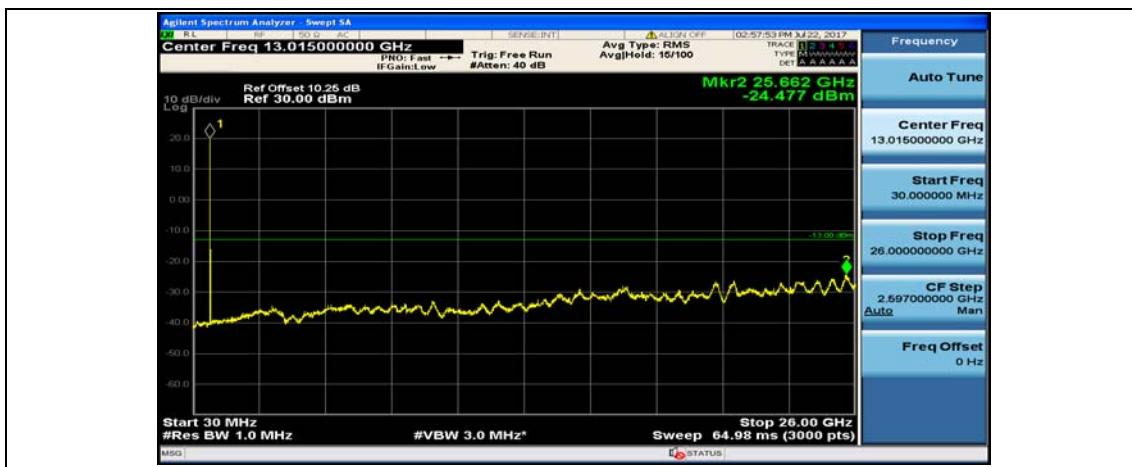


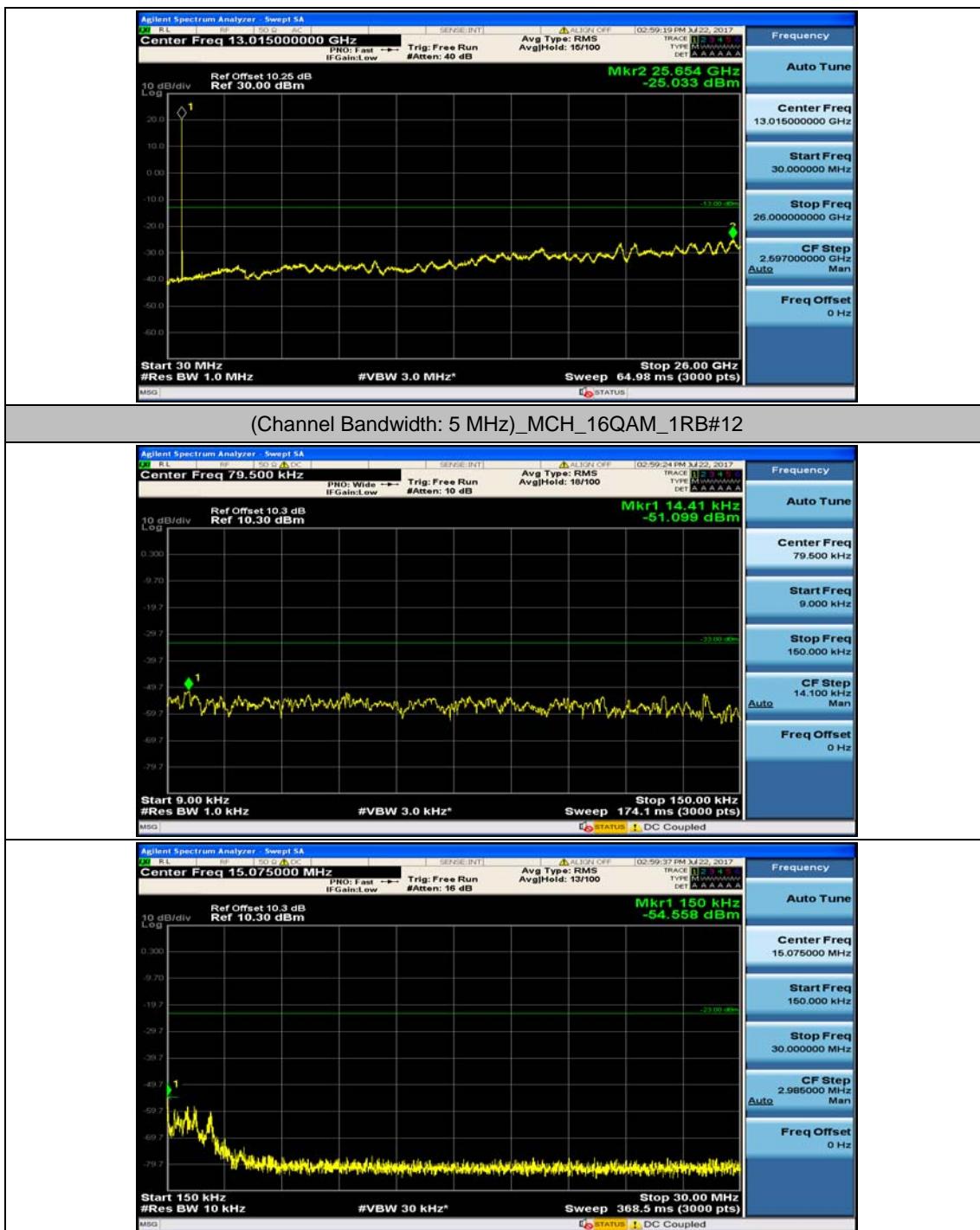


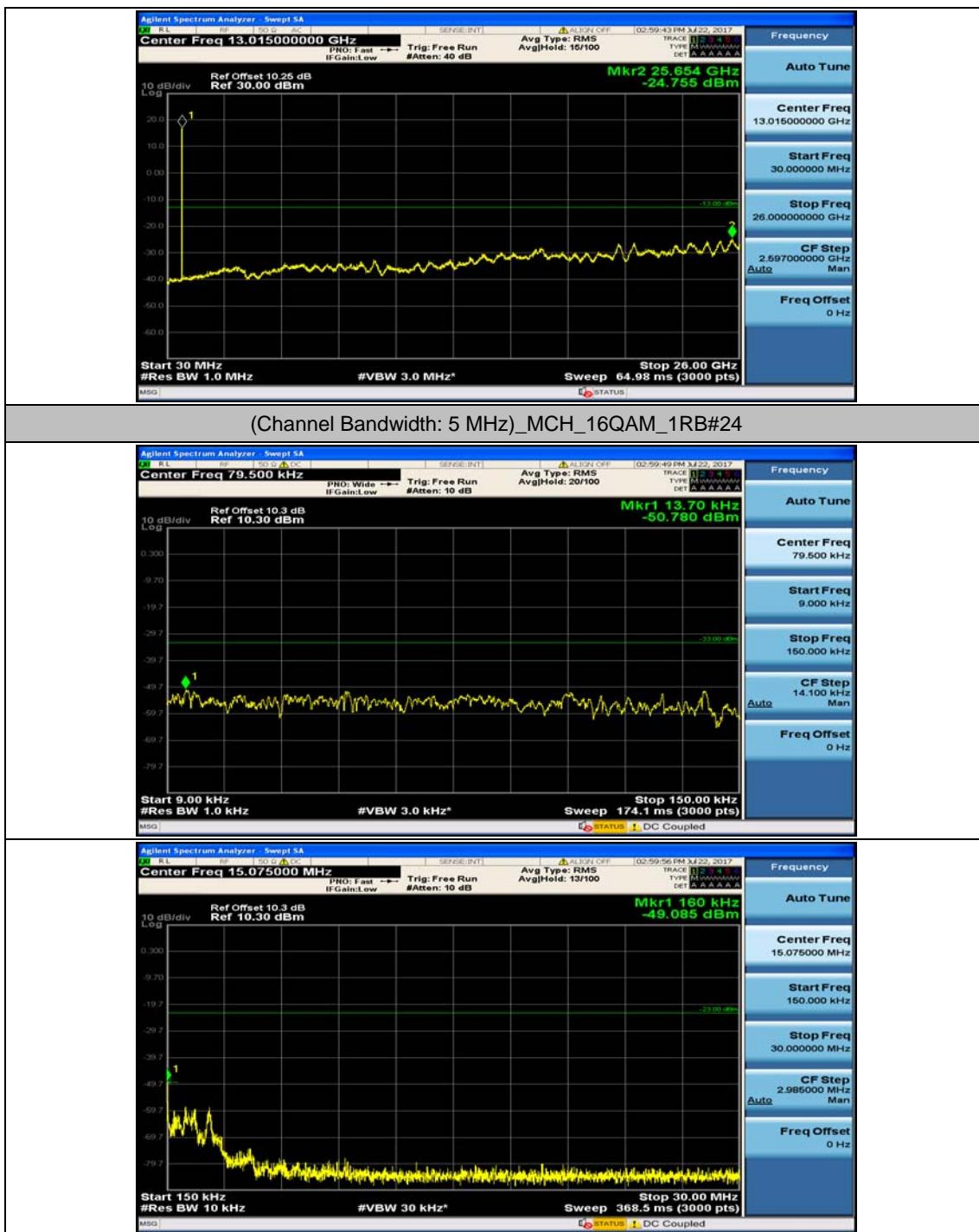


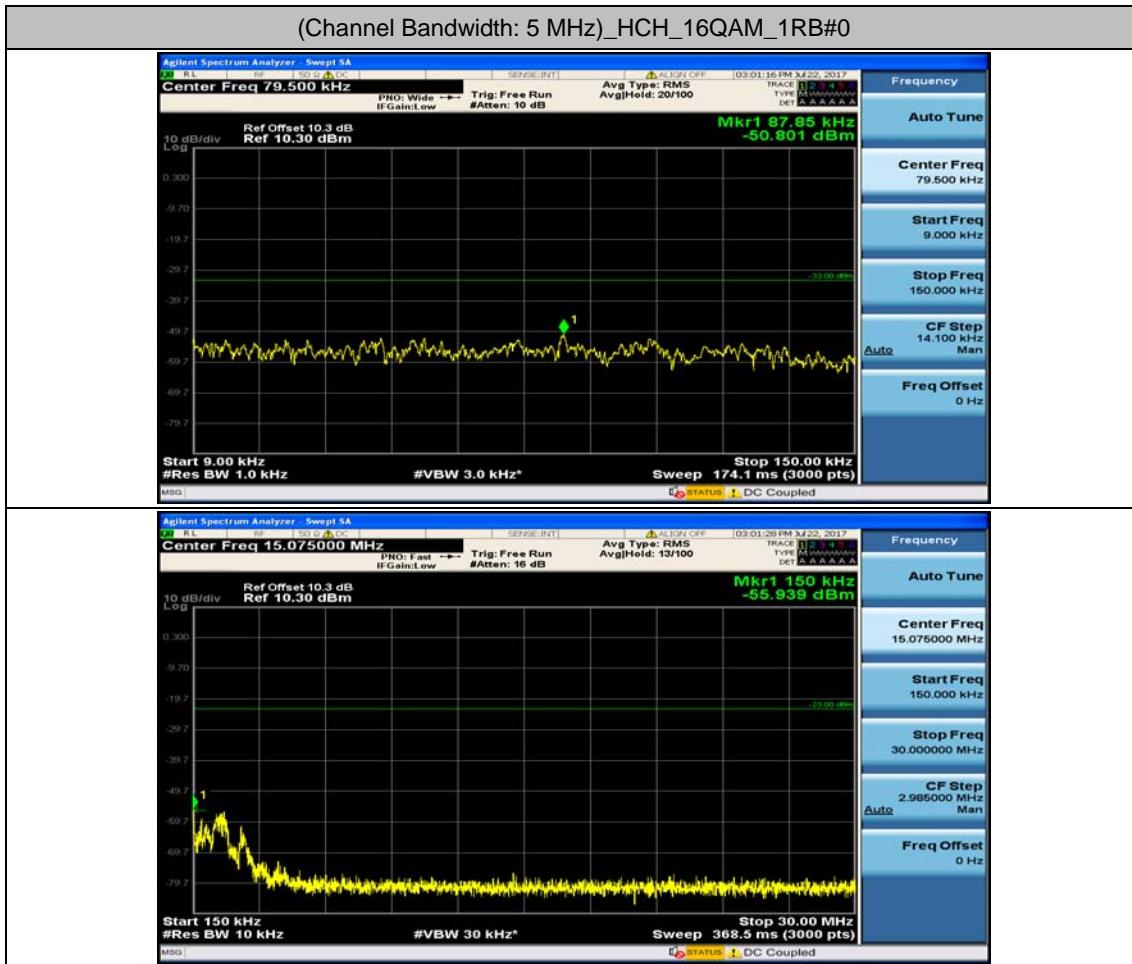
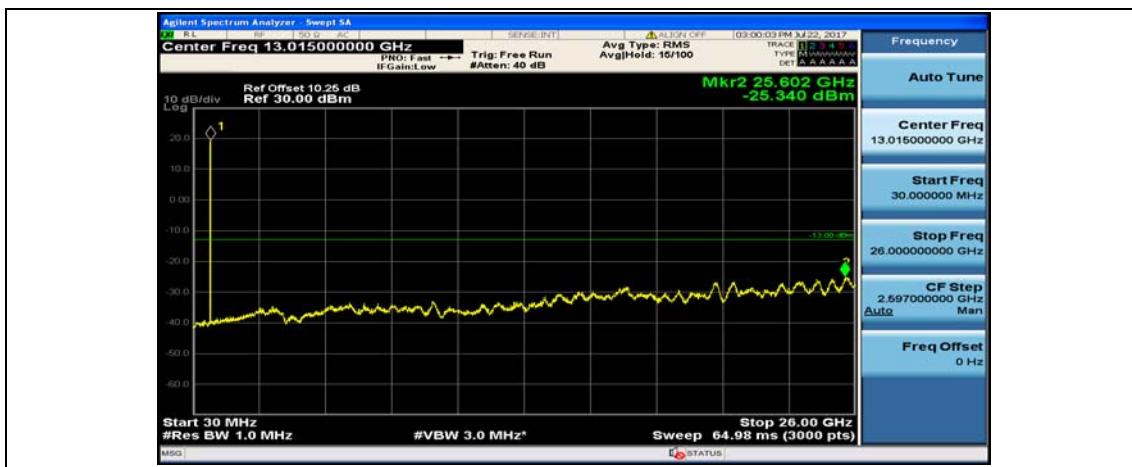


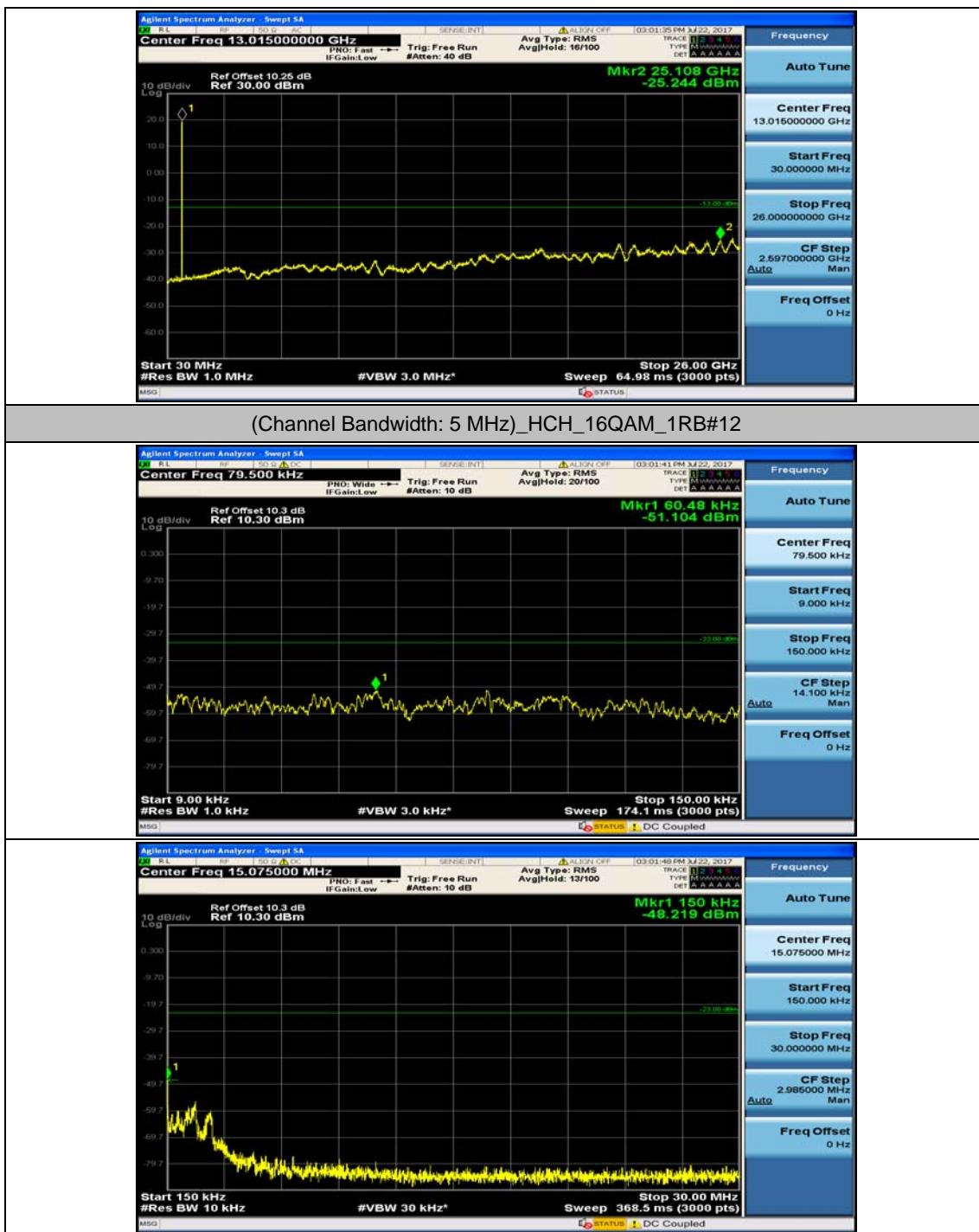


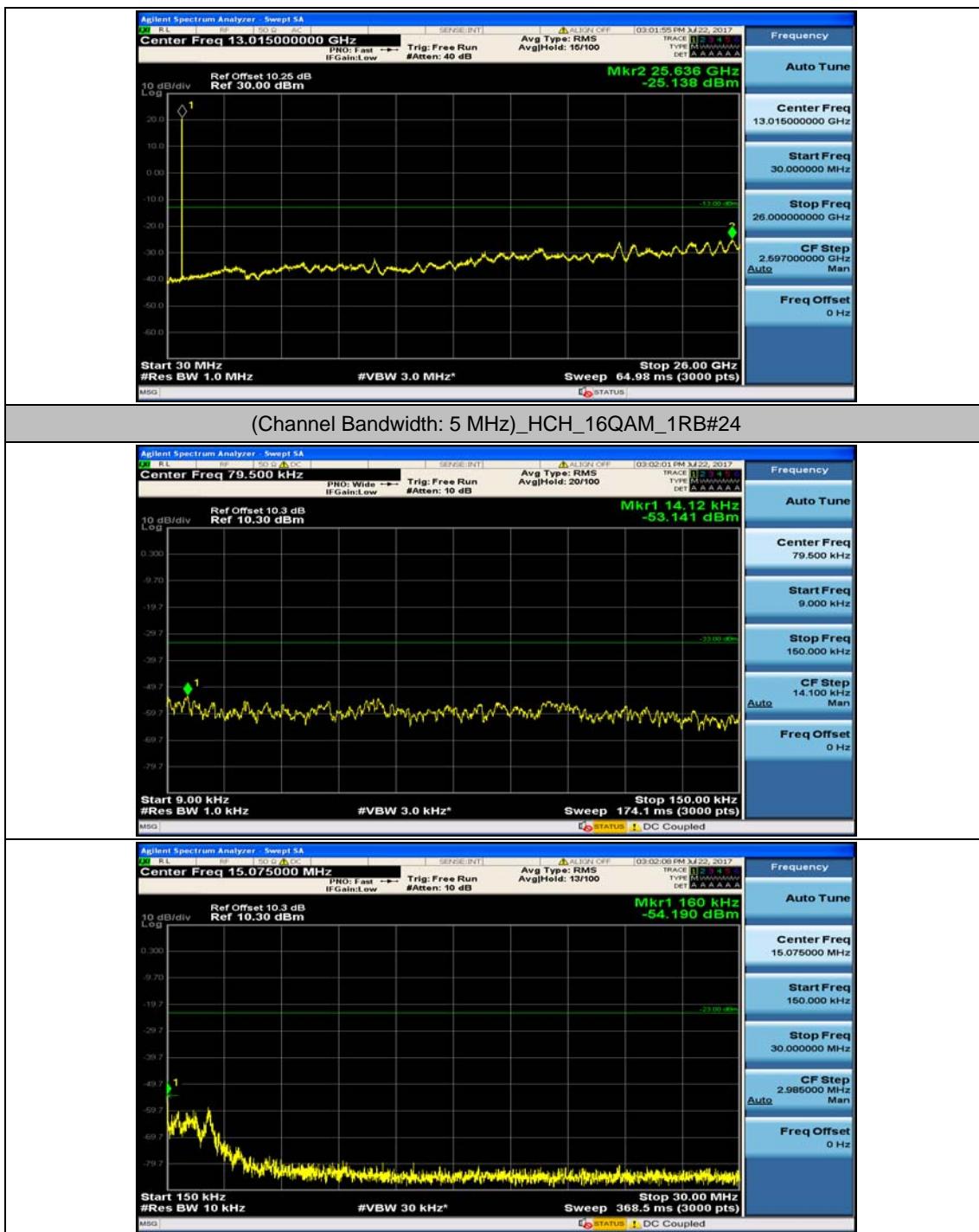


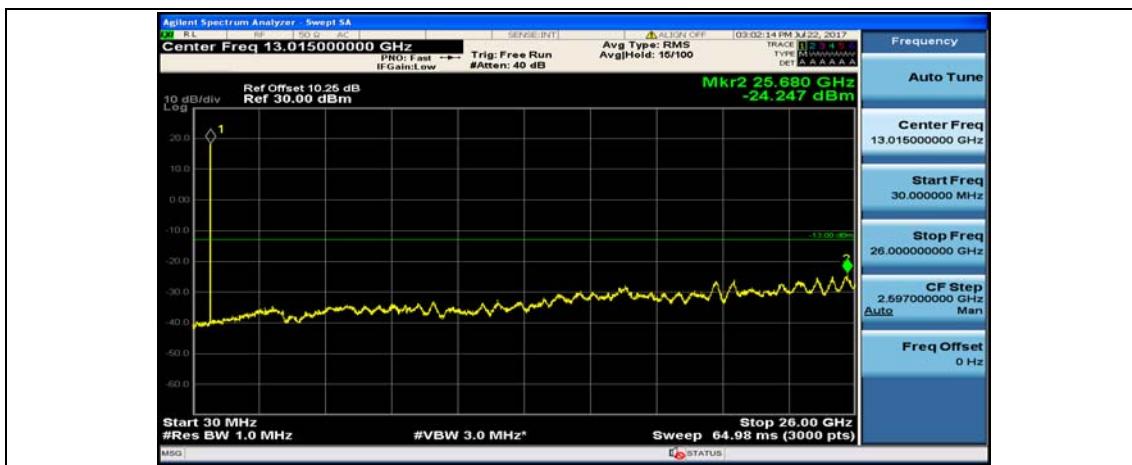




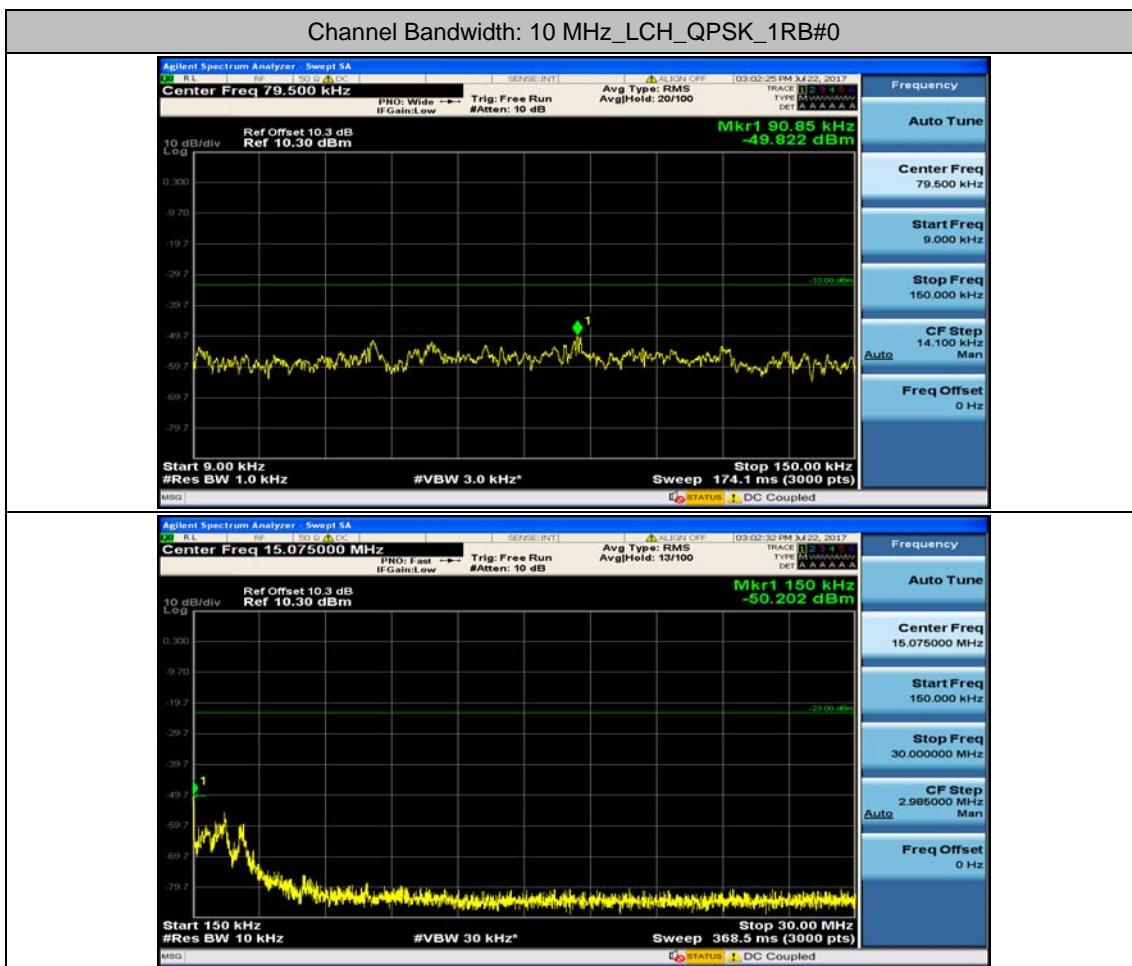


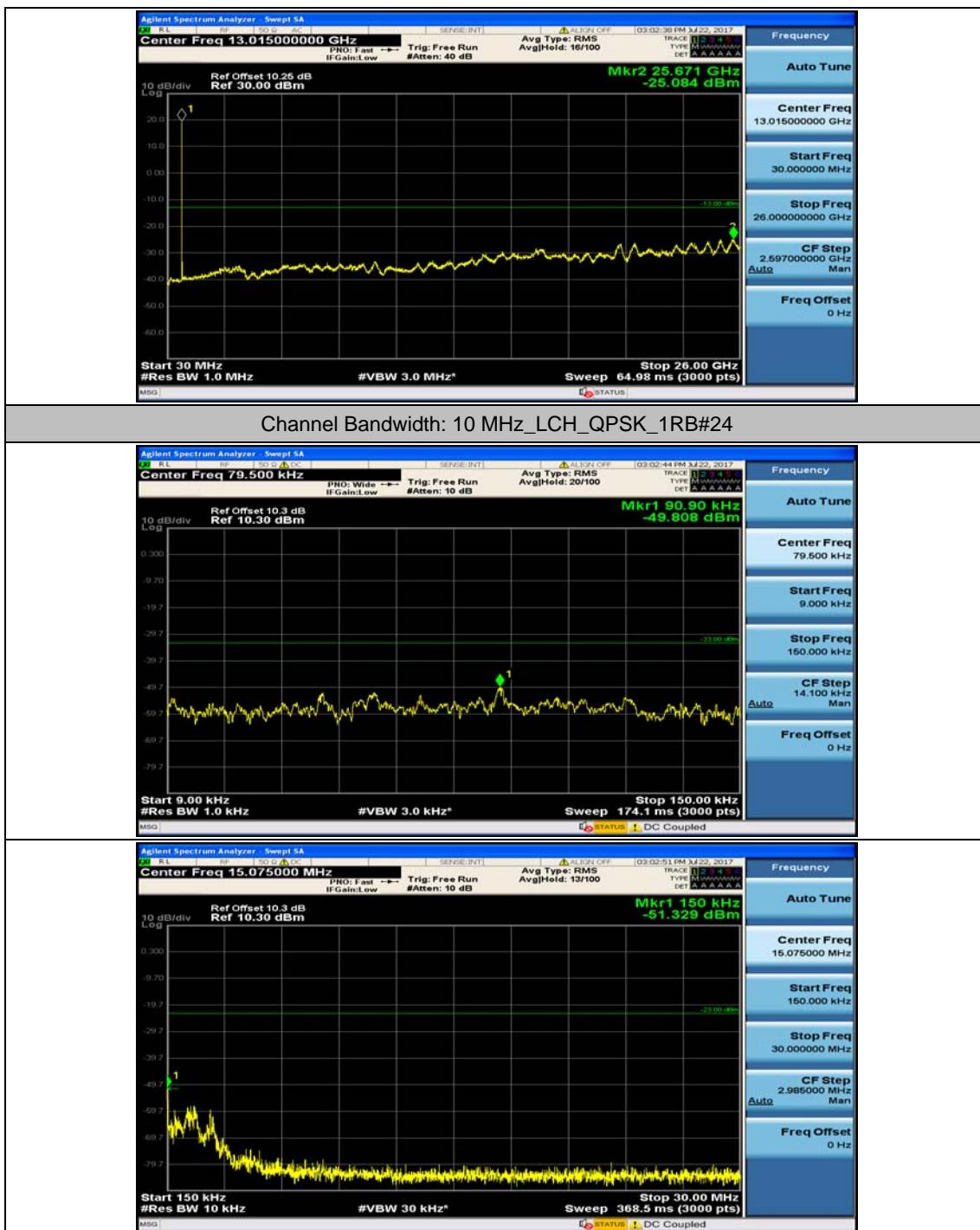


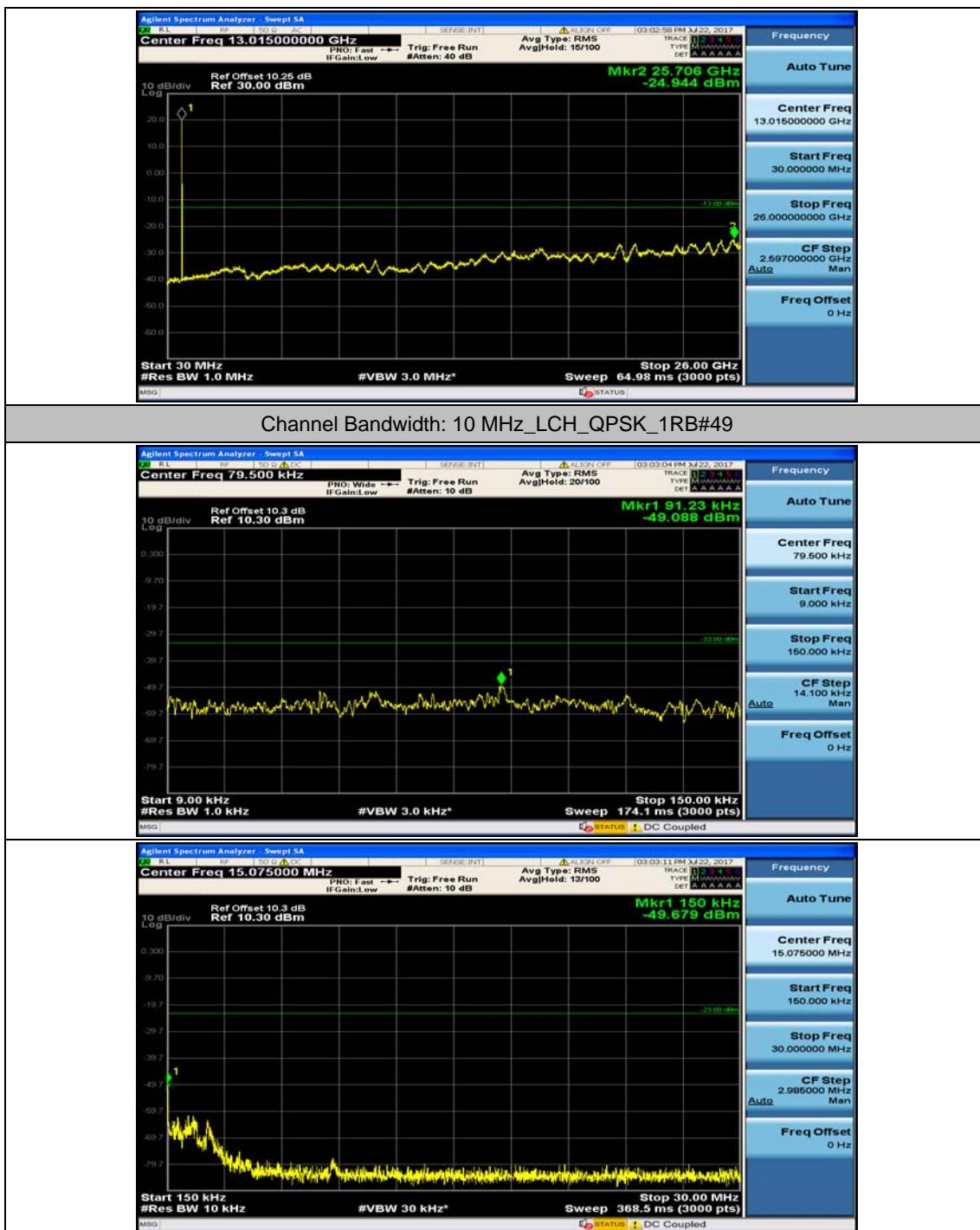


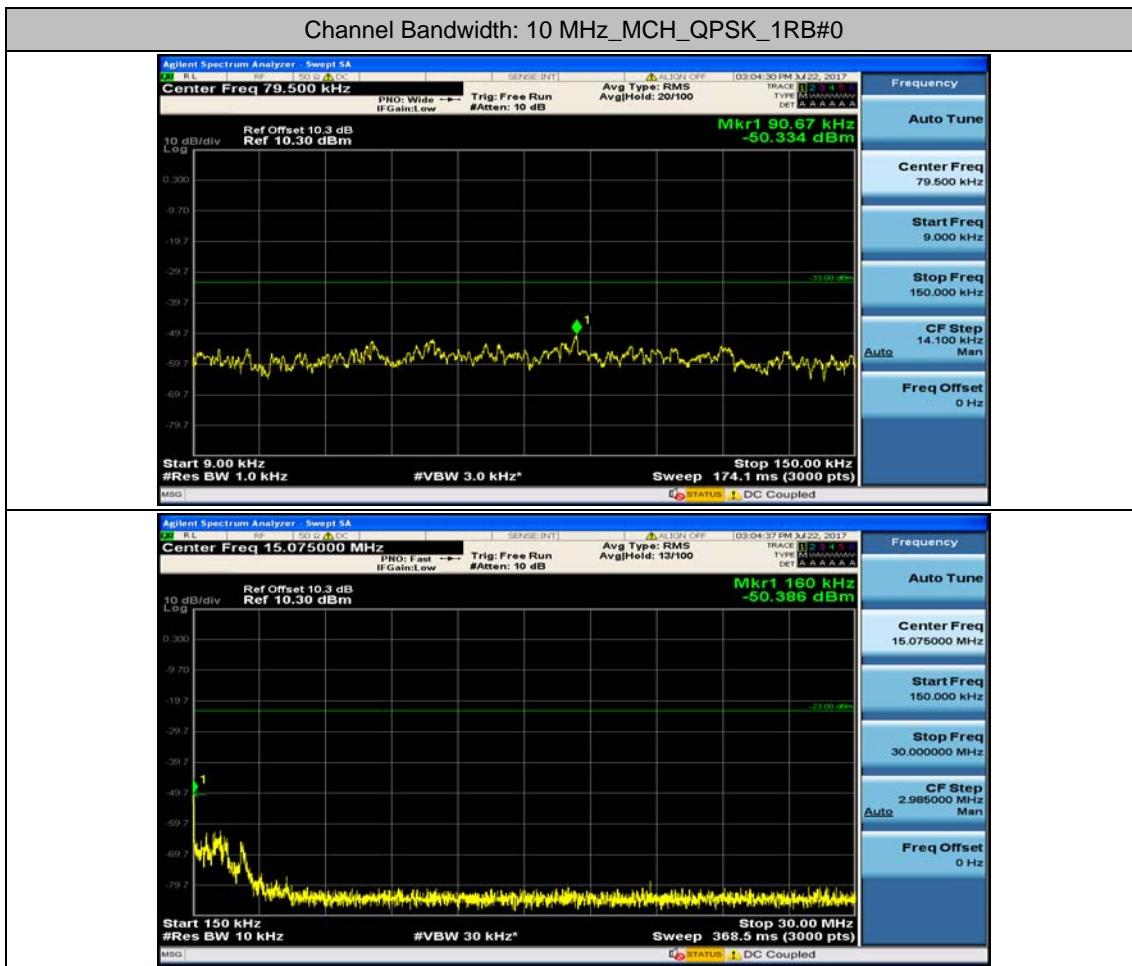
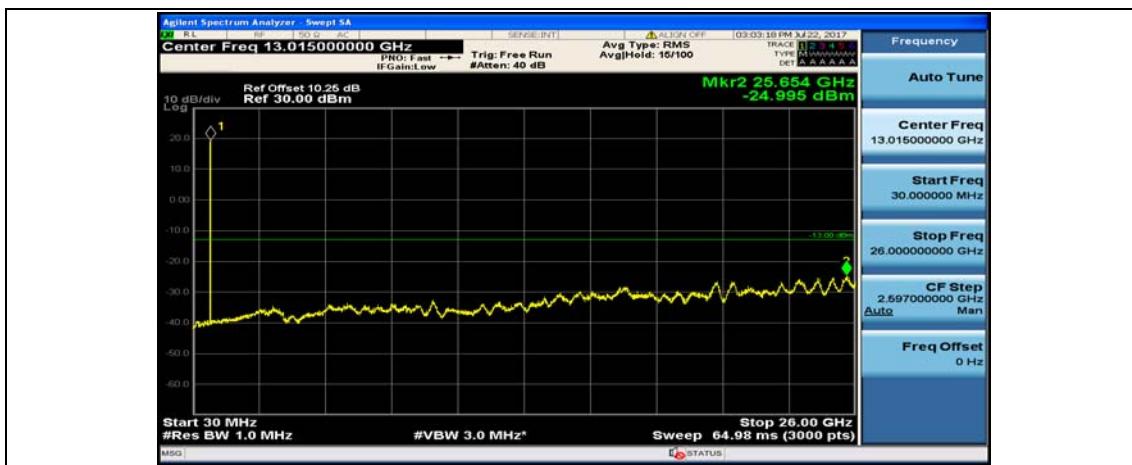


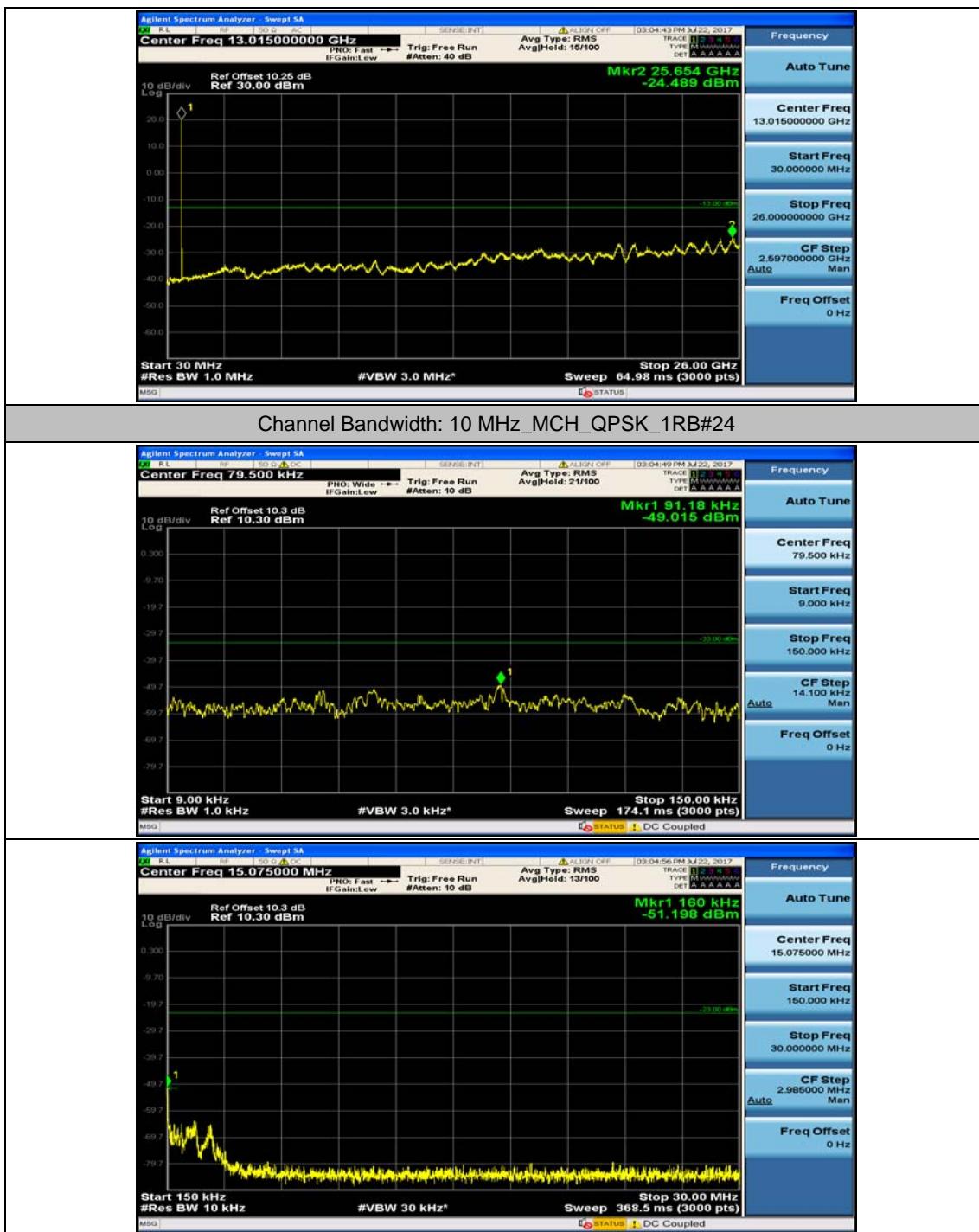
## Channel Bandwidth: 10 MHz

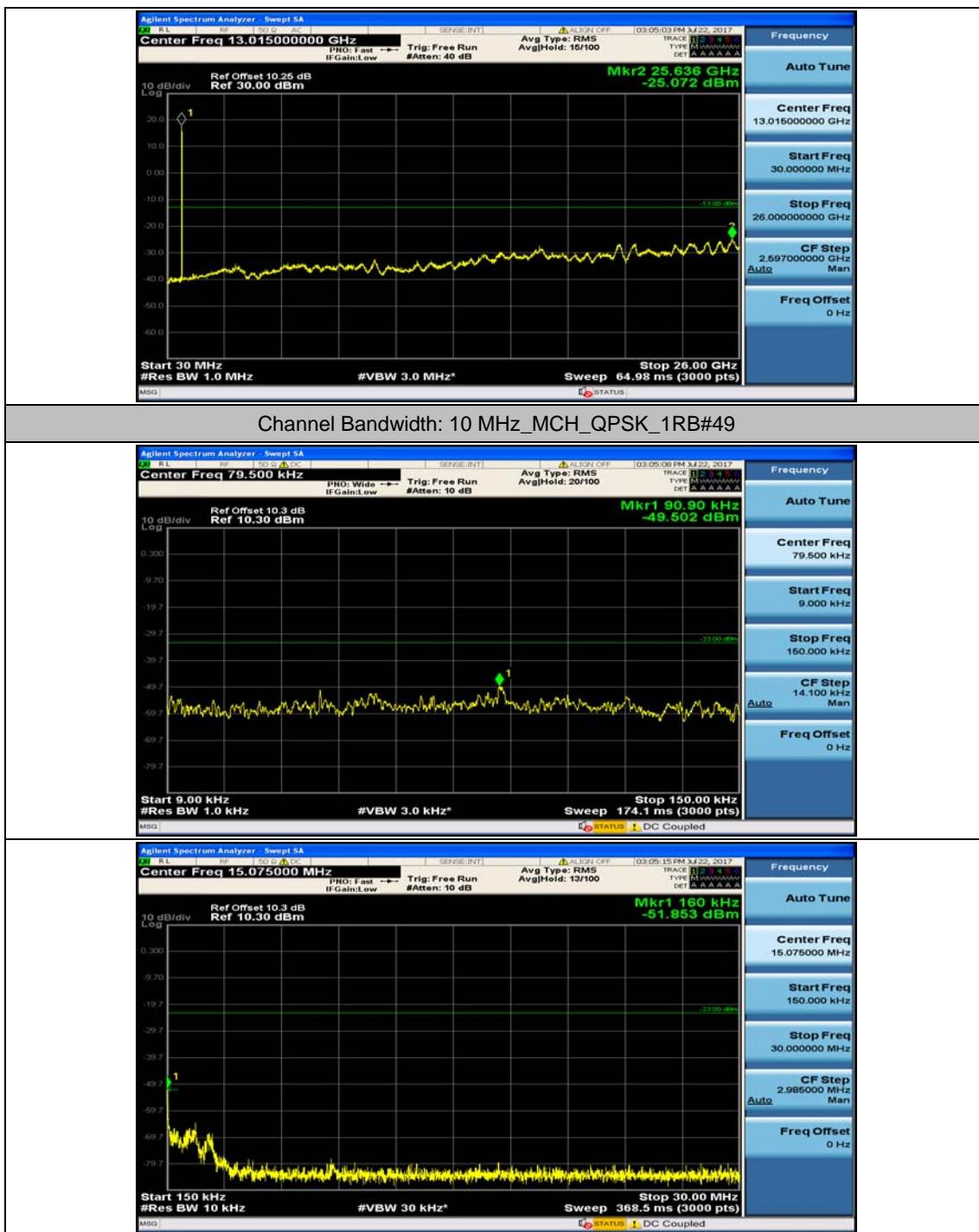


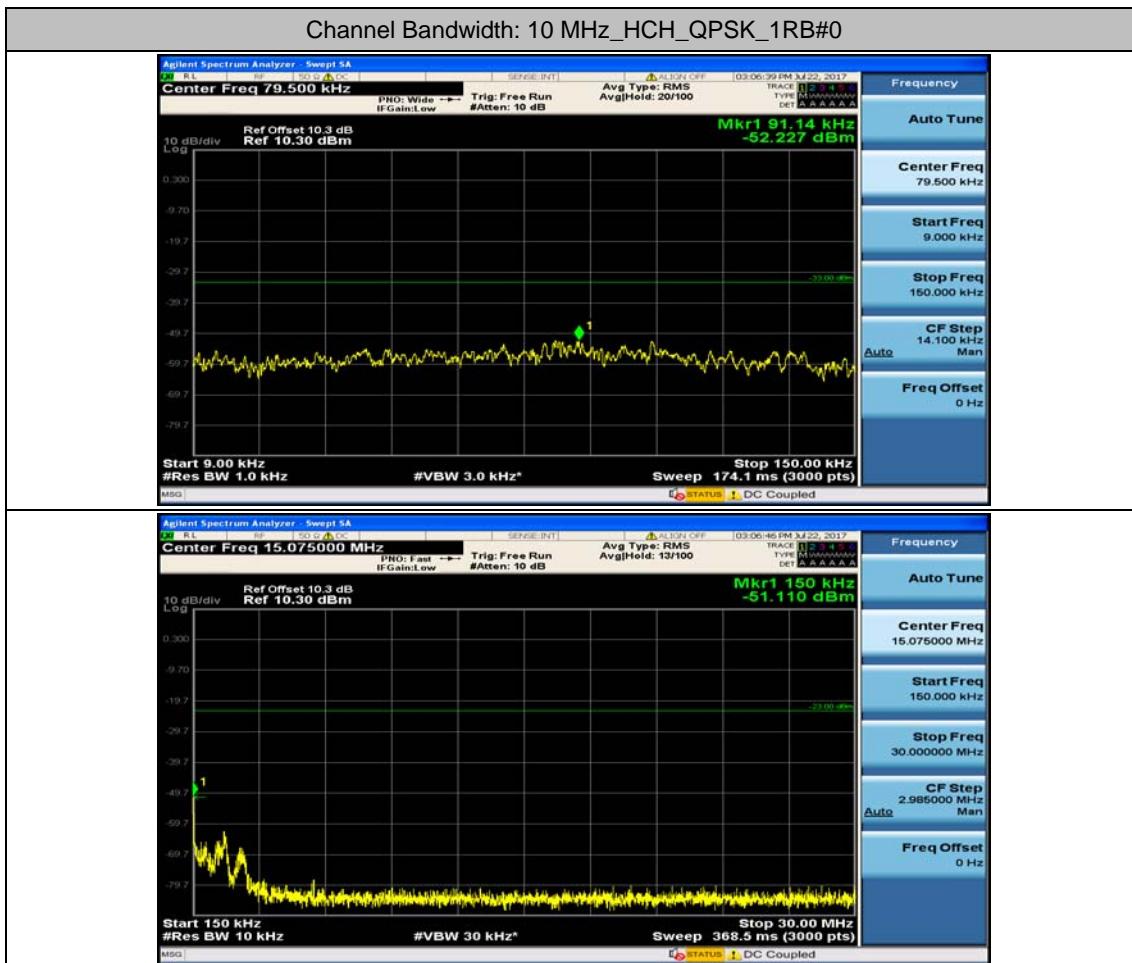
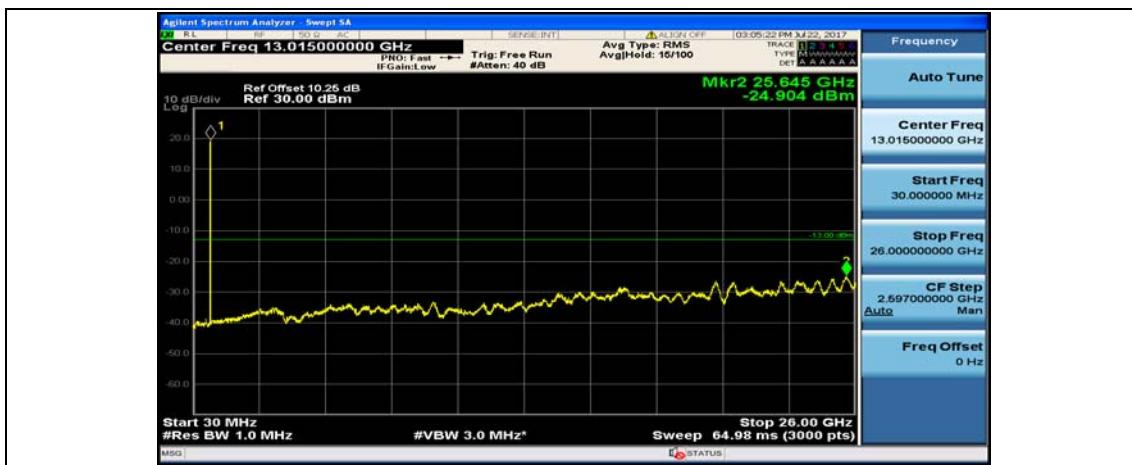


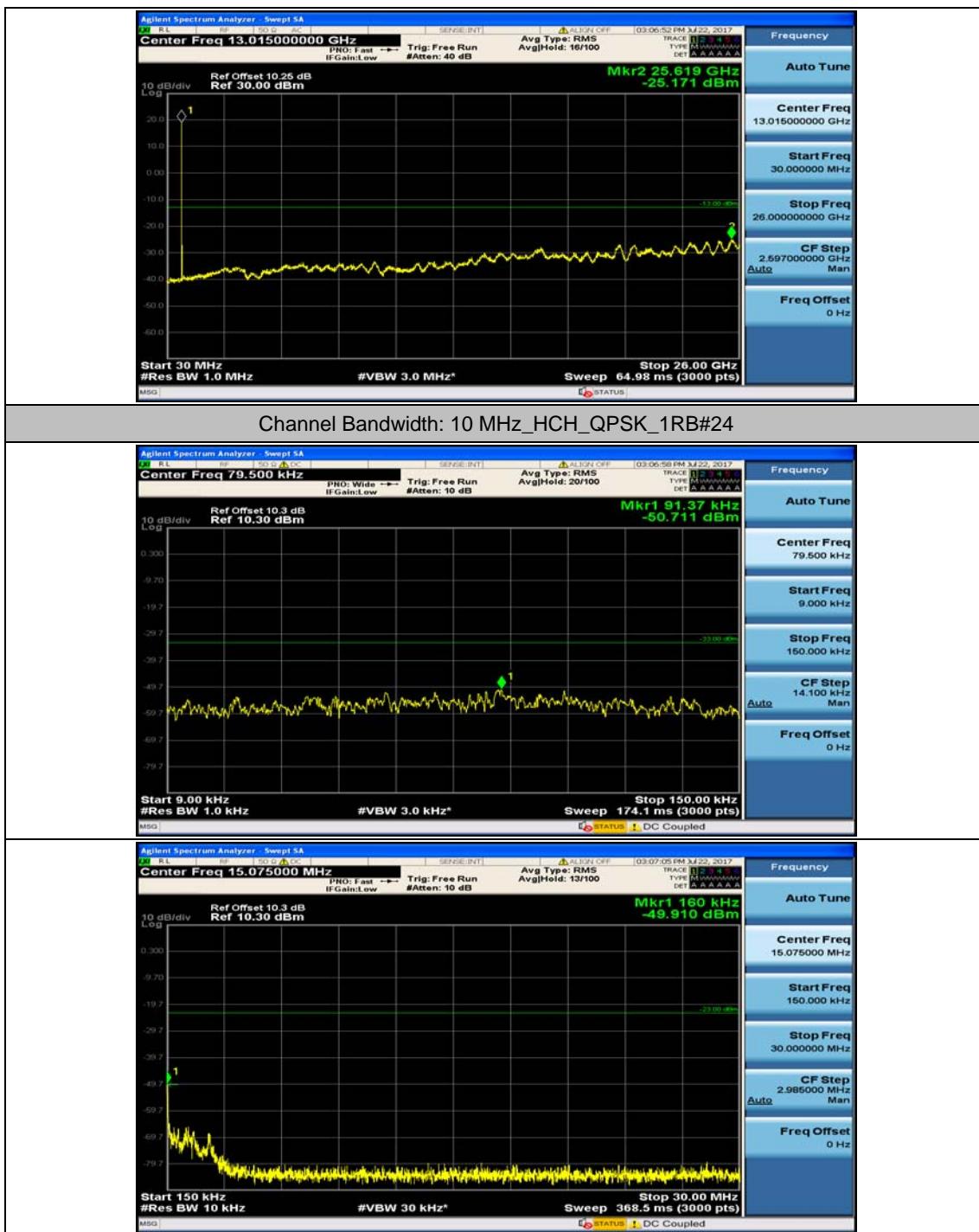


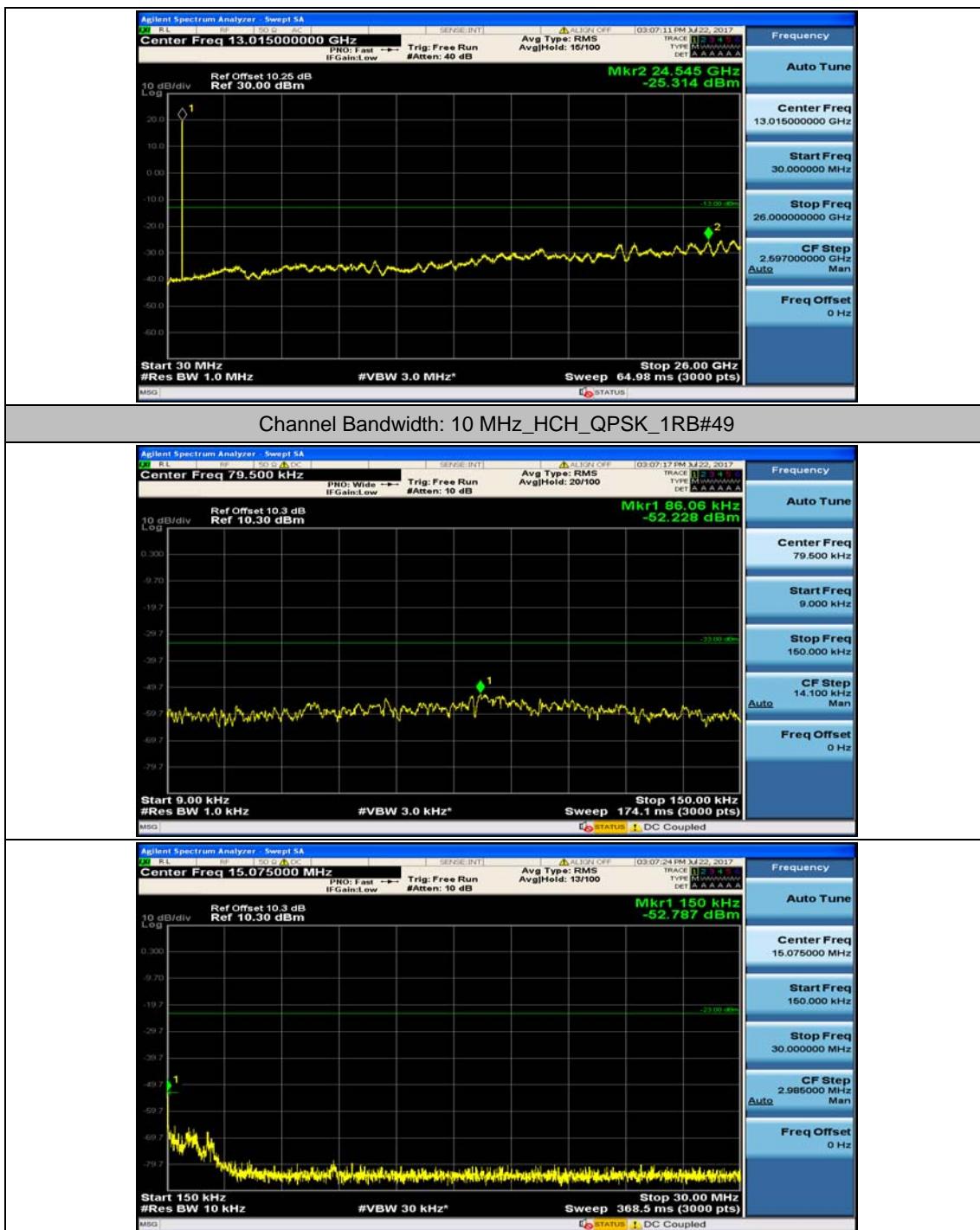


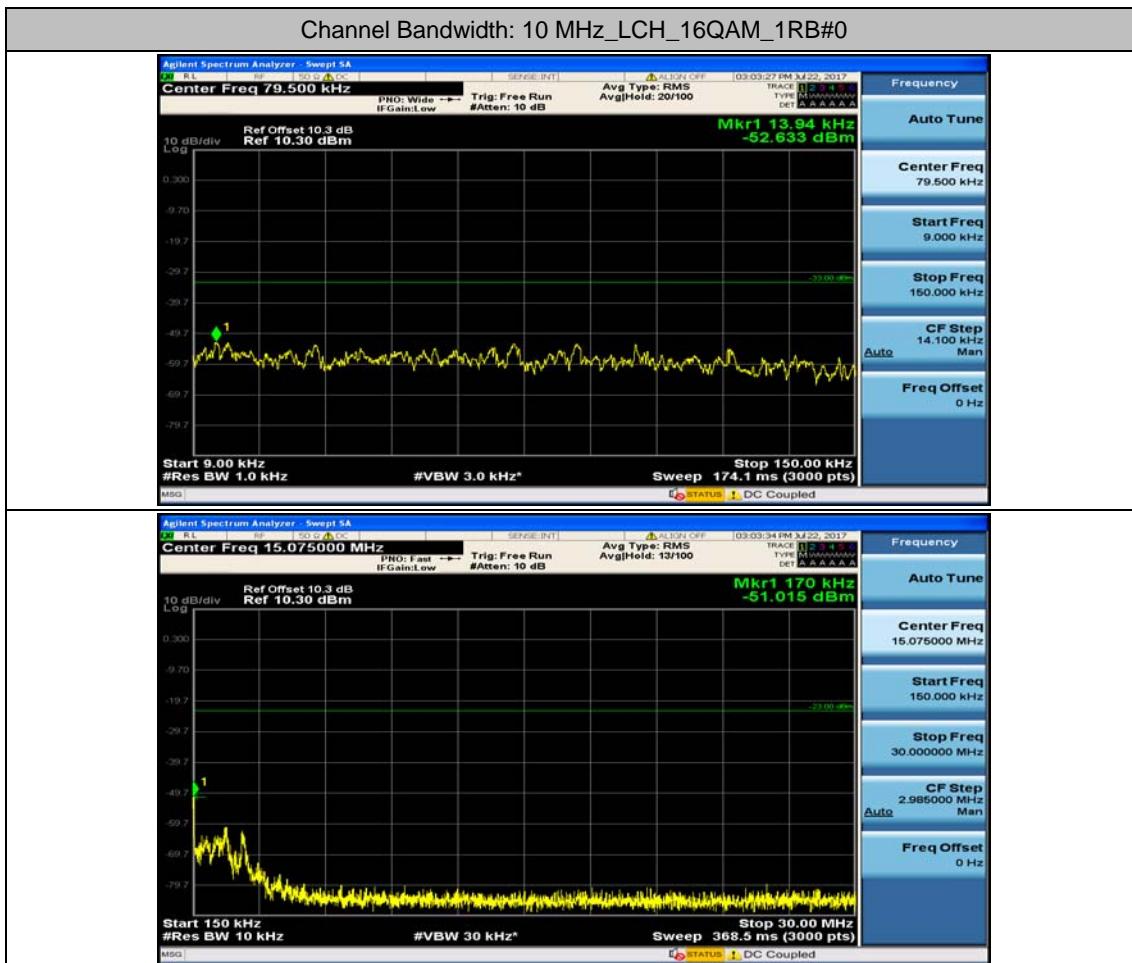


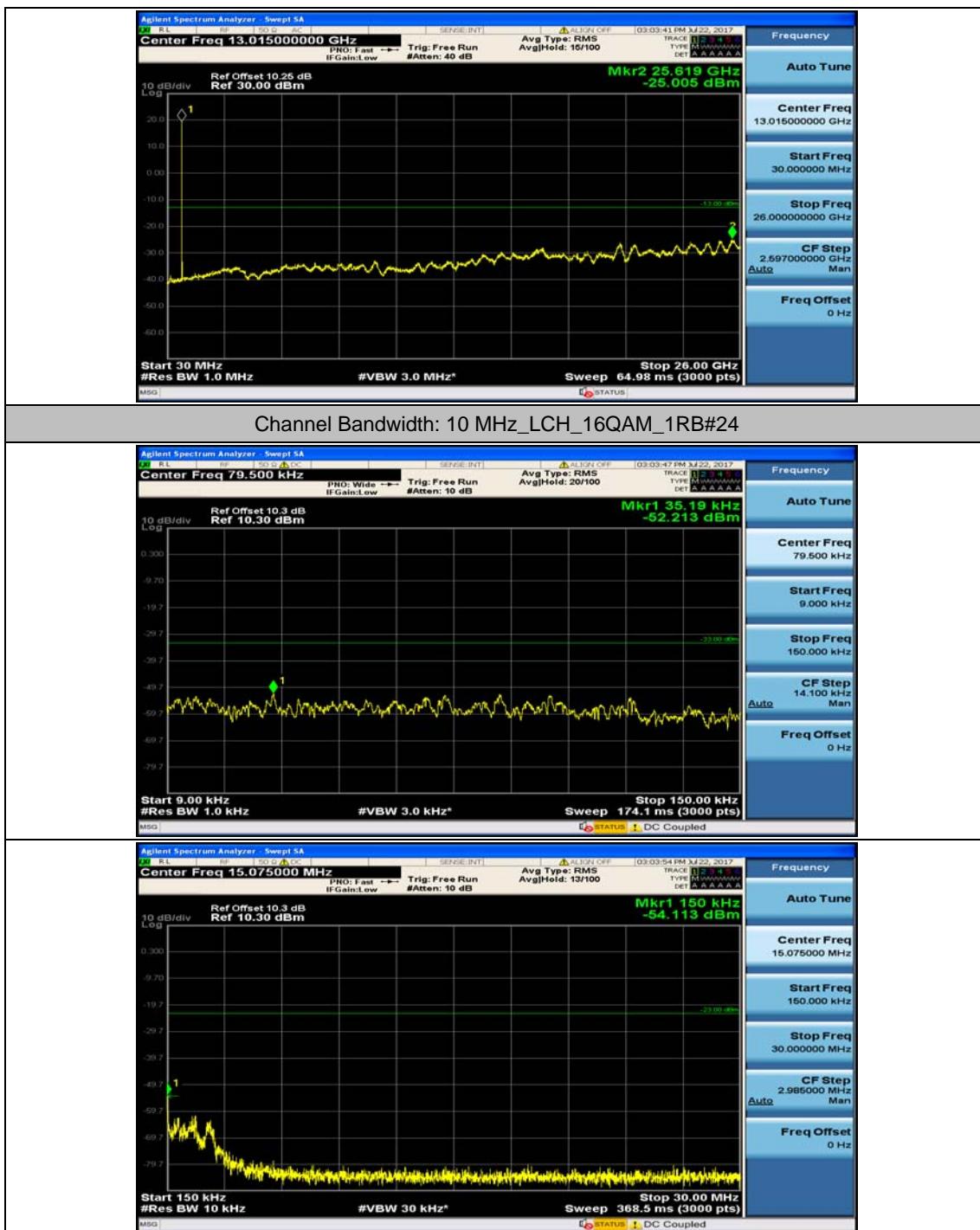


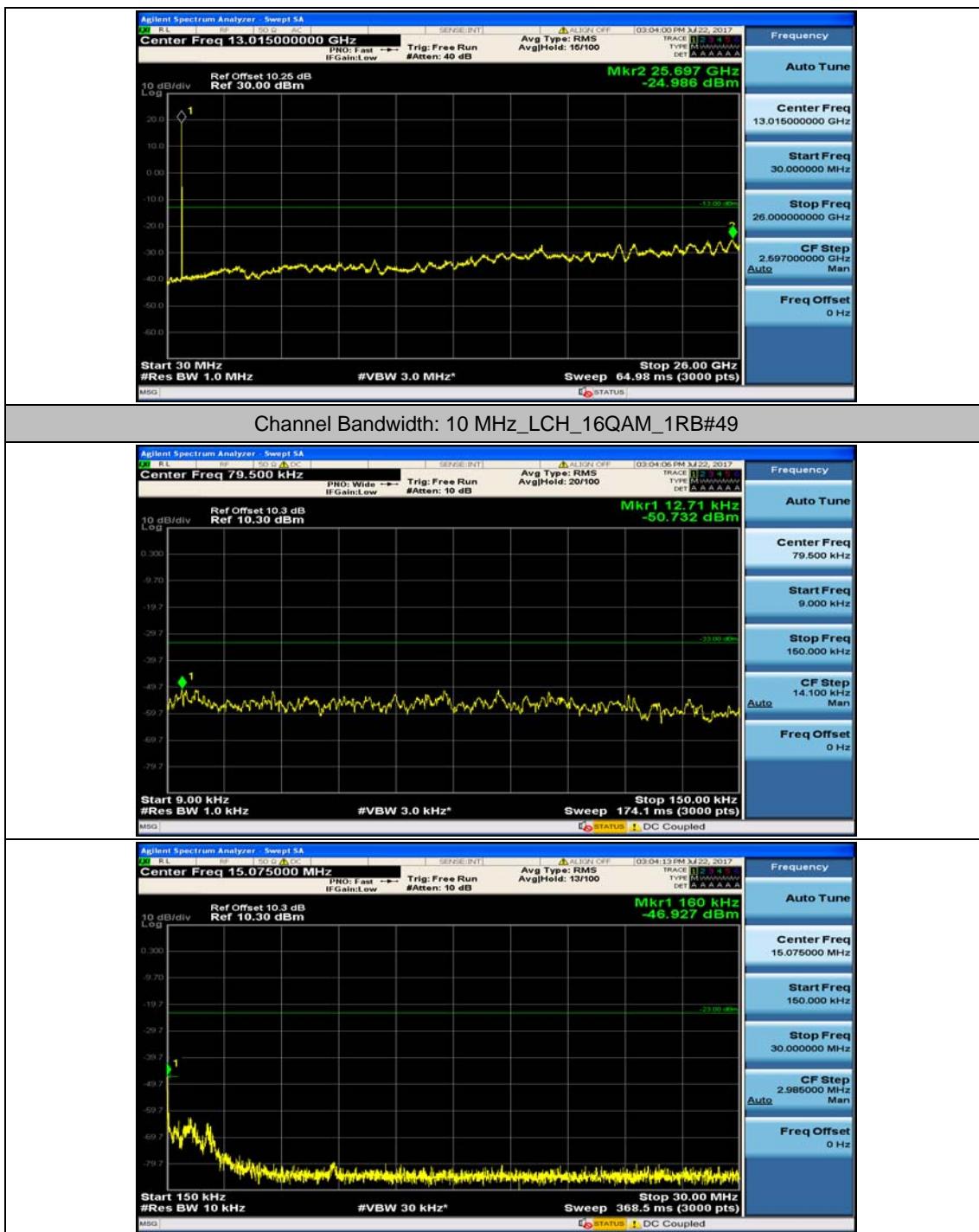


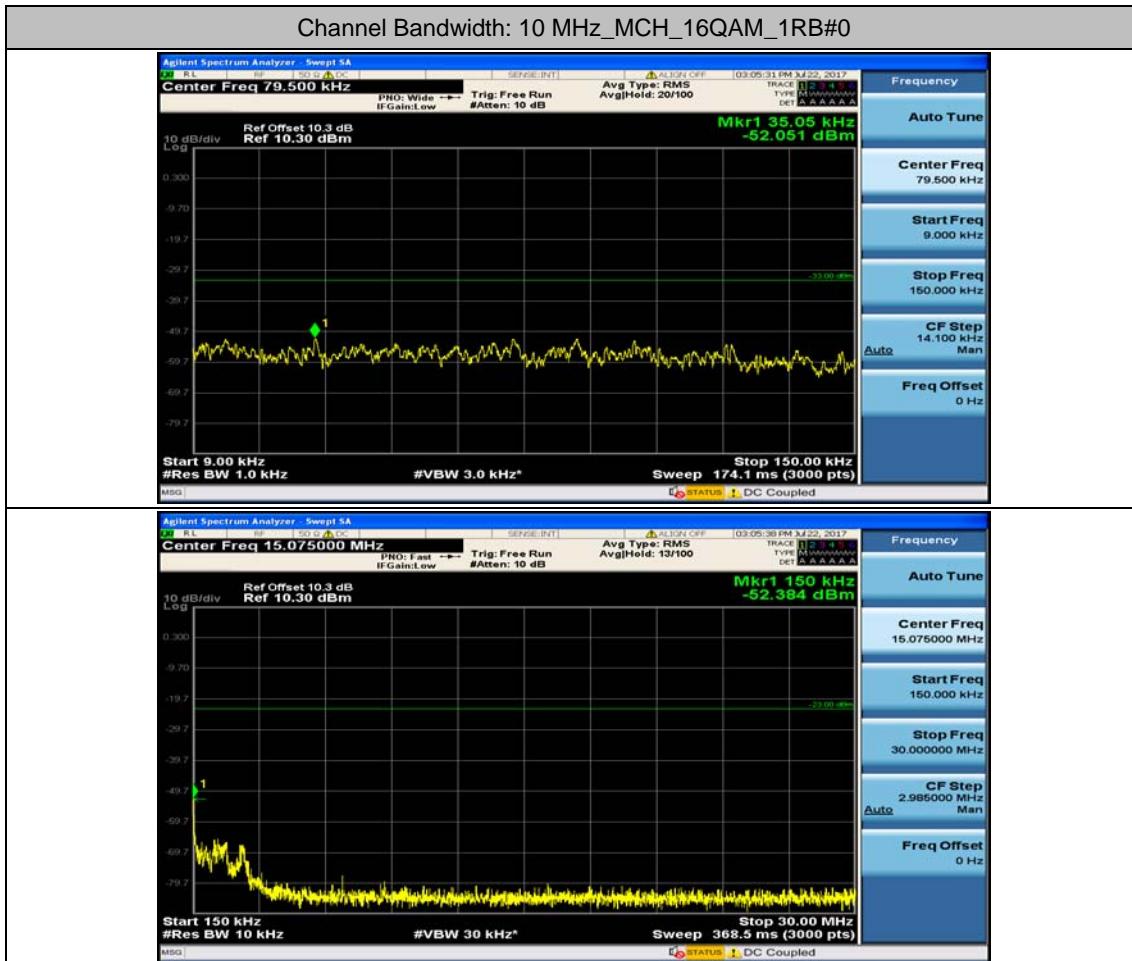


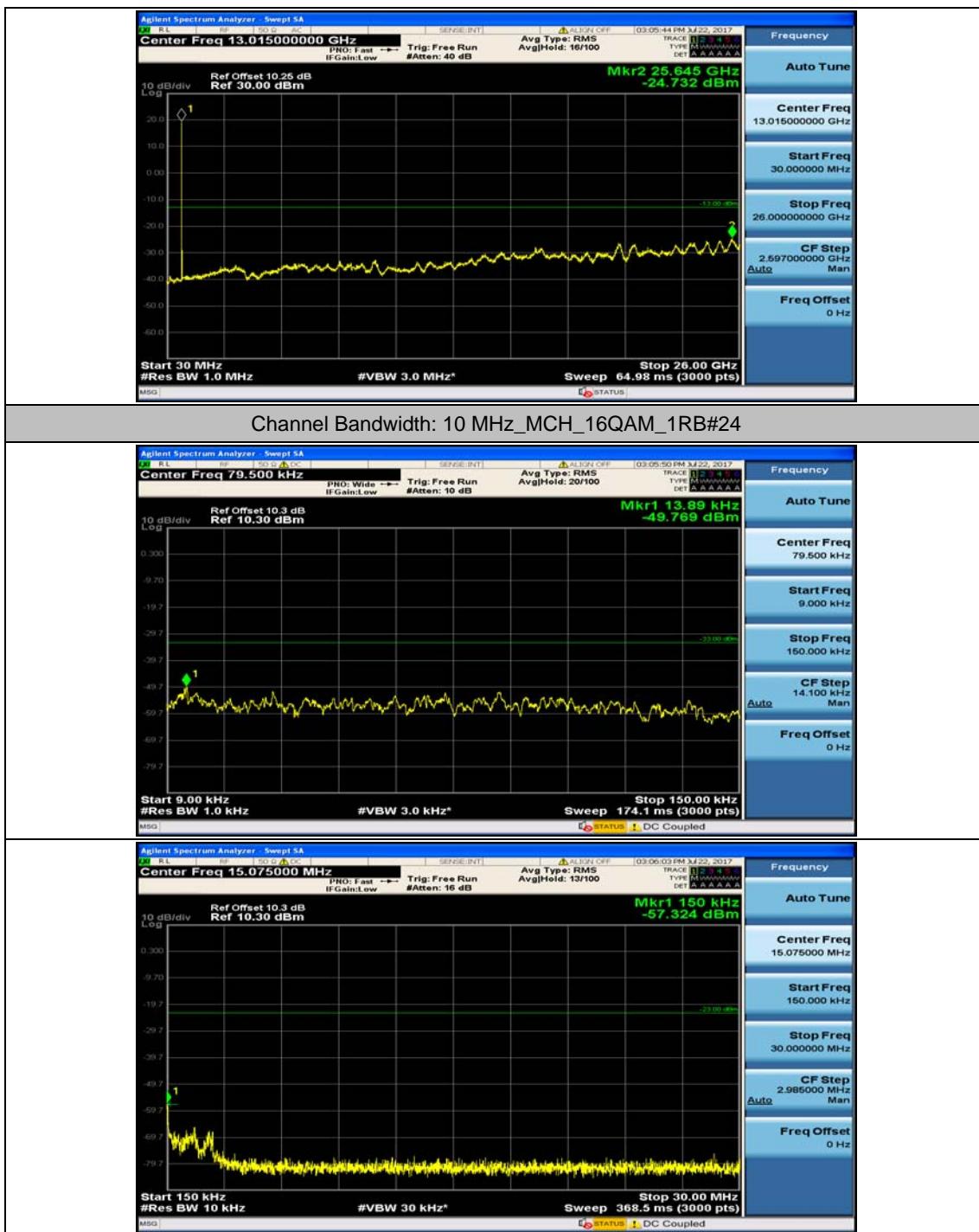


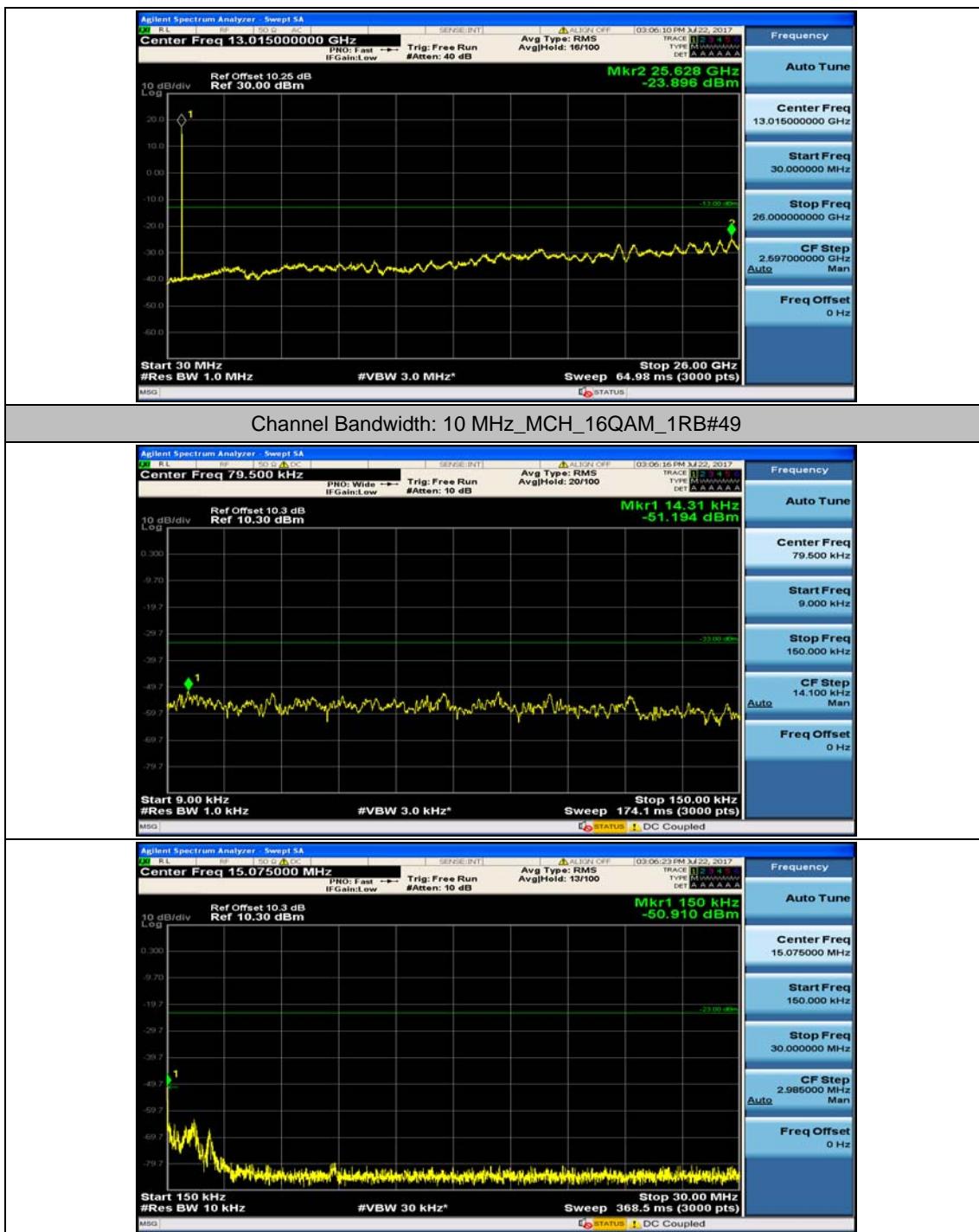


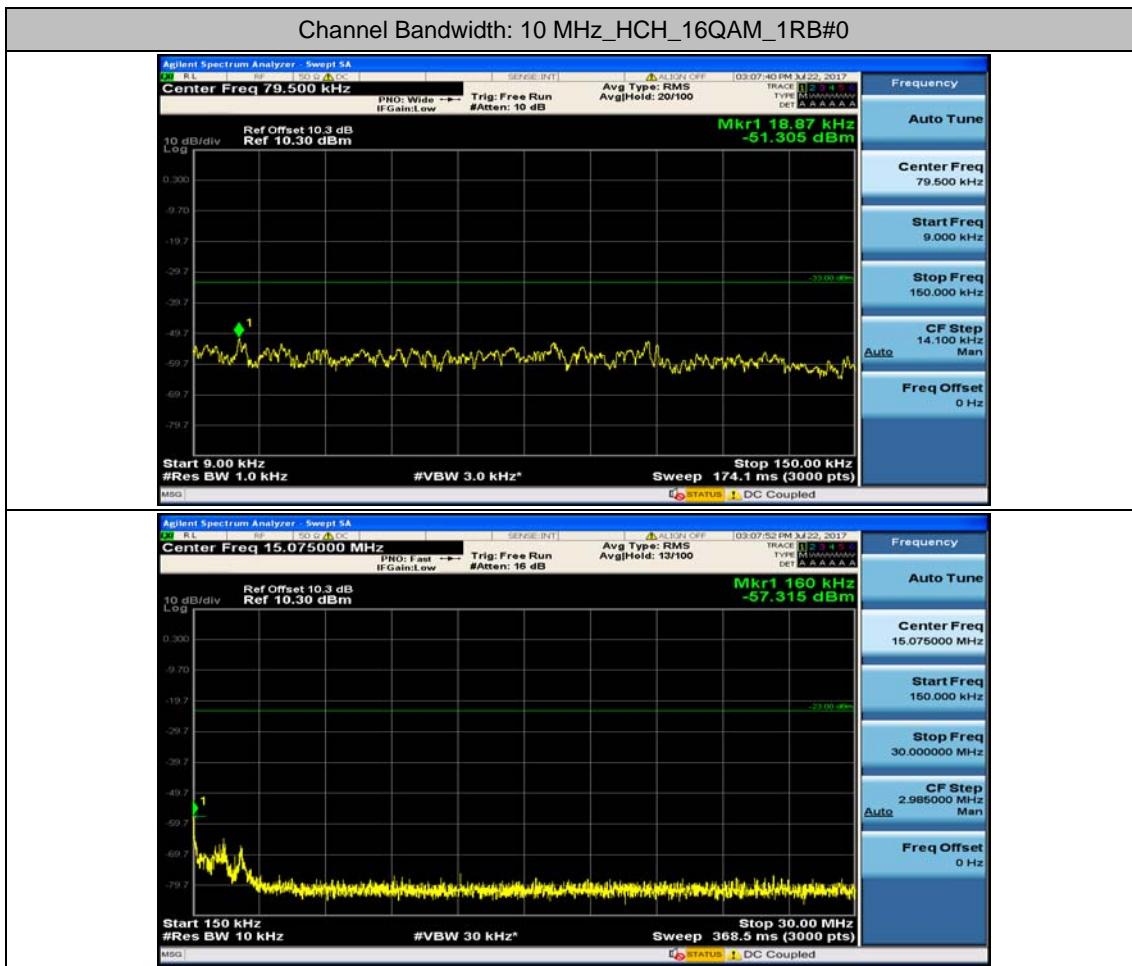
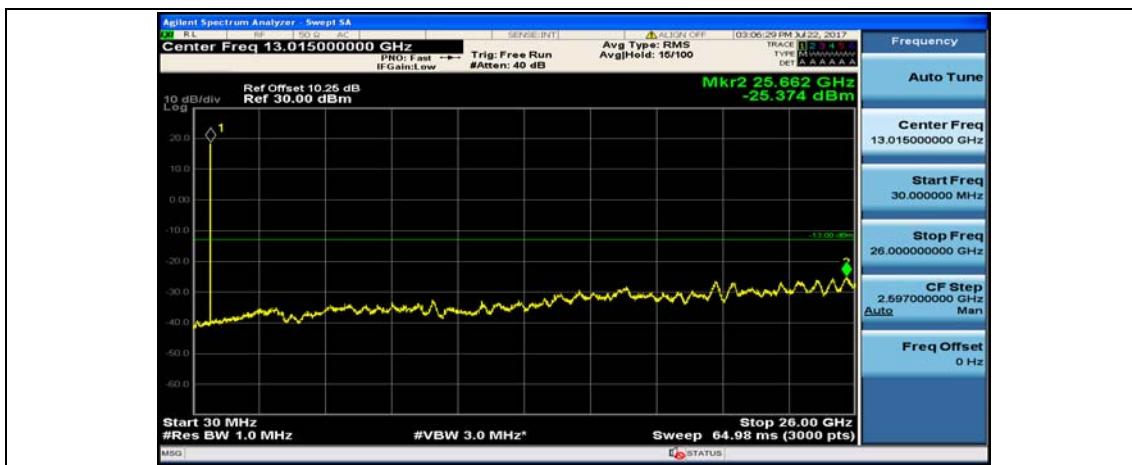


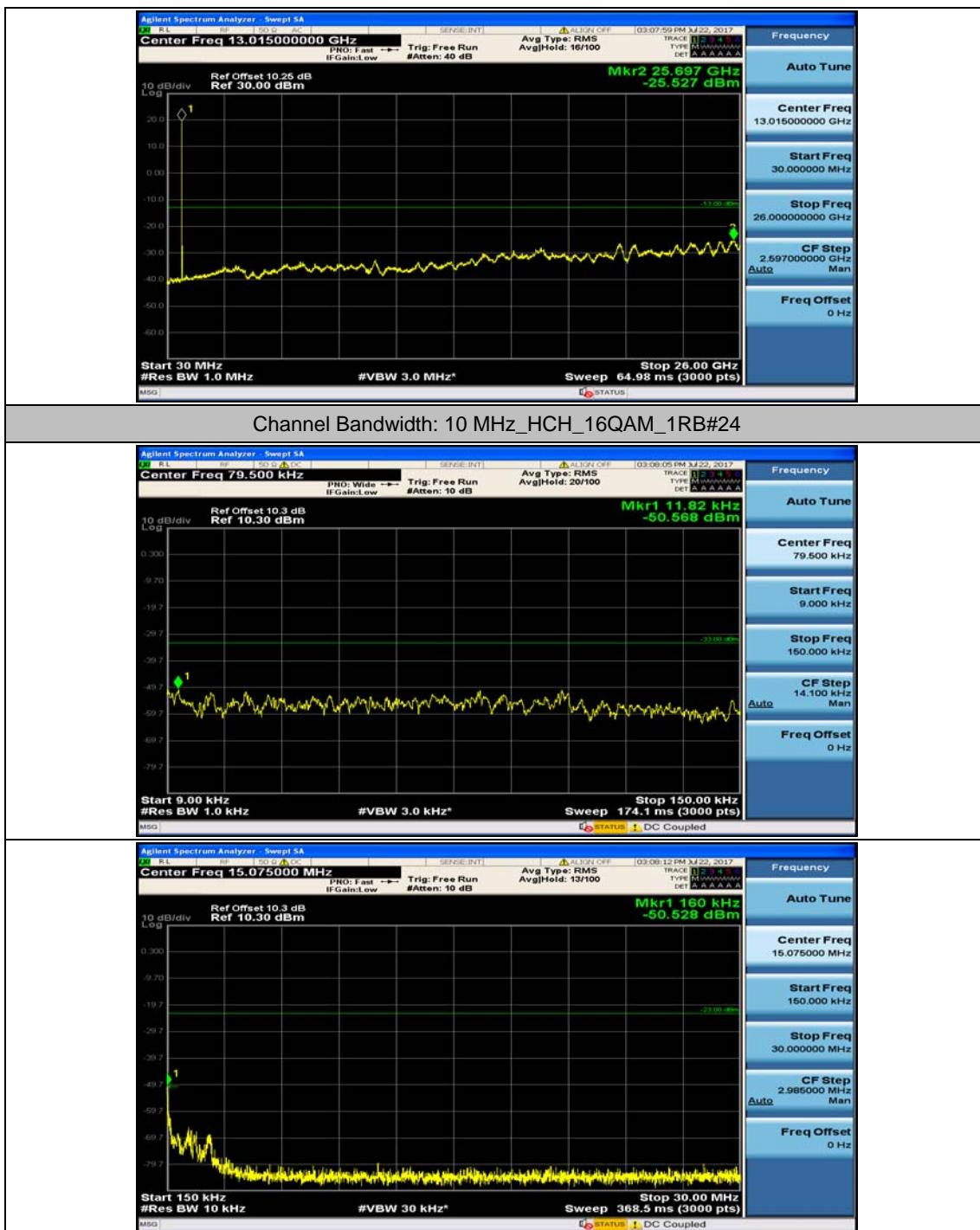


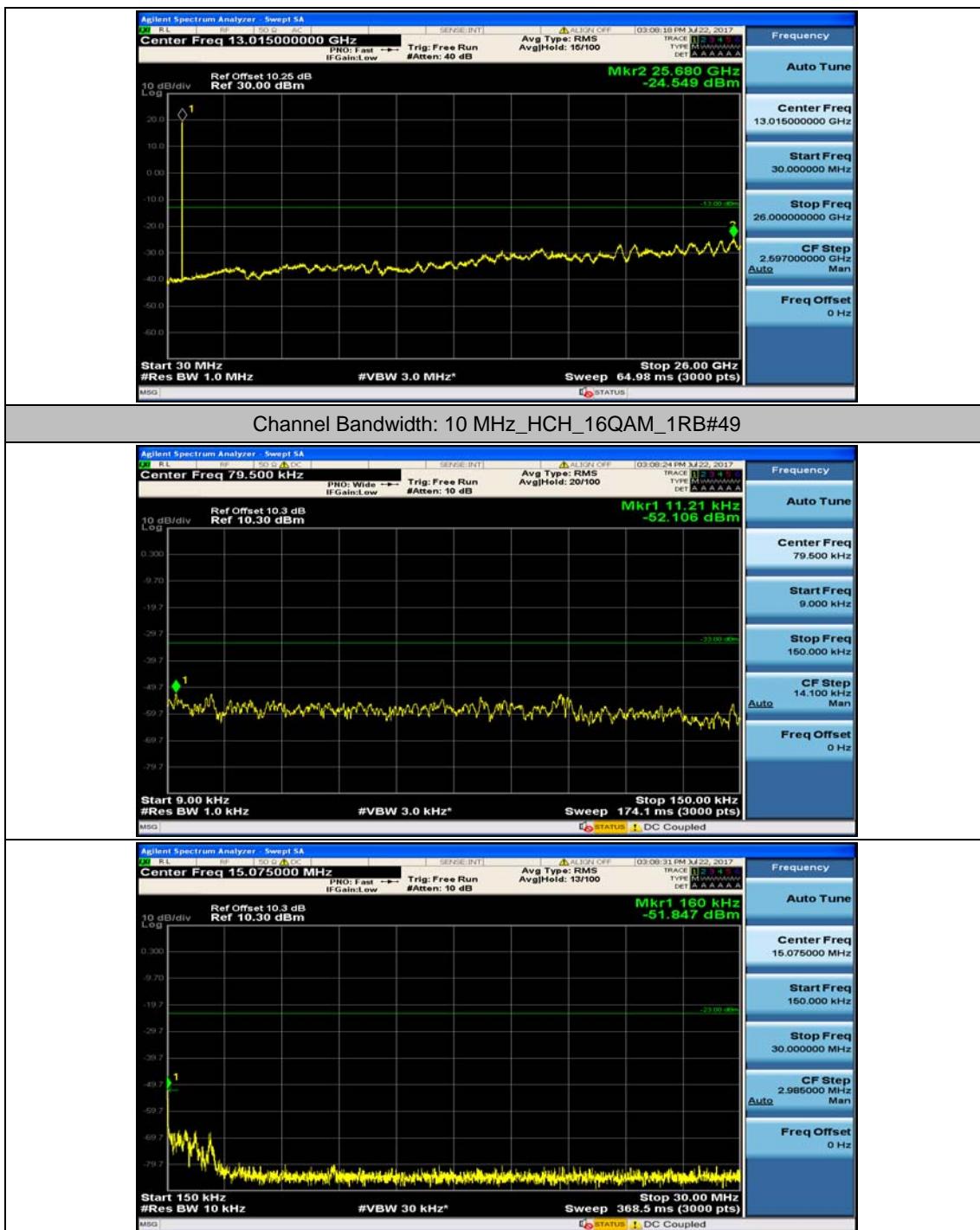














## Appendix F: Frequency Stability

### 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	3.7	0.005219	± 2.5	PASS
		VN	TN	0.54	0.000762	± 2.5	PASS
		VH	TN	4.62	0.006516	± 2.5	PASS
	MCH	VL	TN	4.39	0.006183	± 2.5	PASS
		VN	TN	3.77	0.005310	± 2.5	PASS
		VH	TN	2.38	0.003352	± 2.5	PASS
	HCH	VL	TN	-0.4	-0.000563	± 2.5	PASS
		VN	TN	0.32	0.000450	± 2.5	PASS
		VH	TN	-0.42	-0.000591	± 2.5	PASS
16QAM	LCH	VL	TN	1.78	0.002511	± 2.5	PASS
		VN	TN	0.29	0.000409	± 2.5	PASS
		VH	TN	3.68	0.005190	± 2.5	PASS
	MCH	VL	TN	3.14	0.004423	± 2.5	PASS
		VN	TN	-1.75	-0.002465	± 2.5	PASS
		VH	TN	3.8	0.005352	± 2.5	PASS
	HCH	VL	TN	1.25	0.001758	± 2.5	PASS
		VN	TN	2.49	0.003502	± 2.5	PASS
		VH	TN	4.03	0.005668	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-1.95	-0.002750	± 2.5	PASS
		VN	-20	1.41	0.001989	± 2.5	PASS
		VN	-10	-1.06	-0.001495	± 2.5	PASS
		VN	0	-1.49	-0.002102	± 2.5	PASS
		VN	10	2.07	0.002920	± 2.5	PASS
		VN	20	2.72	0.003836	± 2.5	PASS

		VN	30	4.46	0.006291	$\pm 2.5$	PASS
		VN	40	-0.05	-0.000071	$\pm 2.5$	PASS
		VN	50	3.63	0.005120	$\pm 2.5$	PASS
	MCH	VN	-30	-0.85	-0.001197	$\pm 2.5$	PASS
		VN	-20	2.76	0.003887	$\pm 2.5$	PASS
		VN	-10	2.3	0.003239	$\pm 2.5$	PASS
		VN	0	2.34	0.003296	$\pm 2.5$	PASS
		VN	10	0.01	0.000014	$\pm 2.5$	PASS
		VN	20	-0.51	-0.000718	$\pm 2.5$	PASS
		VN	30	-1.11	-0.001563	$\pm 2.5$	PASS
	HCH	VN	40	-1.55	-0.002183	$\pm 2.5$	PASS
		VN	50	-0.86	-0.001211	$\pm 2.5$	PASS
		VN	-30	1.72	0.002419	$\pm 2.5$	PASS
		VN	-20	4.09	0.005752	$\pm 2.5$	PASS
		VN	-10	-0.87	-0.001224	$\pm 2.5$	PASS
		VN	0	2.42	0.003404	$\pm 2.5$	PASS
		VN	10	-1.34	-0.001885	$\pm 2.5$	PASS
		VN	20	0.98	0.001378	$\pm 2.5$	PASS
		VN	30	0.93	0.001308	$\pm 2.5$	PASS
		VN	40	-1.82	-0.002560	$\pm 2.5$	PASS
	LCH	VN	50	0.17	0.000239	$\pm 2.5$	PASS
		VN	-30	-0.32	-0.000451	$\pm 2.5$	PASS
		VN	-20	2.85	0.004014	$\pm 2.5$	PASS
		VN	-10	4.26	0.006000	$\pm 2.5$	PASS
		VN	0	3.47	0.004887	$\pm 2.5$	PASS
		VN	10	1.72	0.002423	$\pm 2.5$	PASS
		VN	20	2.38	0.003352	$\pm 2.5$	PASS
		VN	30	0.56	0.000789	$\pm 2.5$	PASS
		VN	40	2.32	0.003268	$\pm 2.5$	PASS
		VN	50	1.16	0.001634	$\pm 2.5$	PASS
	MCH	VN	-30	3.03	0.004262	$\pm 2.5$	PASS
		VN	-20	3.77	0.005302	$\pm 2.5$	PASS
		VN	-10	-1.19	-0.001674	$\pm 2.5$	PASS
		VN	0	0.24	0.000338	$\pm 2.5$	PASS
		VN	10	4.58	0.006442	$\pm 2.5$	PASS
		VN	20	3.45	0.004852	$\pm 2.5$	PASS
		VN	30	1.31	0.001842	$\pm 2.5$	PASS
		VN	40	4.02	0.005654	$\pm 2.5$	PASS
		VN	50	0.13	0.000183	$\pm 2.5$	PASS
	HCH	VN	-30	4.5	0.006329	$\pm 2.5$	PASS
		VN	-20	-0.27	-0.000380	$\pm 2.5$	PASS

		VN	-10	-1.25	-0.001758	$\pm 2.5$	PASS
		VN	0	-0.53	-0.000745	$\pm 2.5$	PASS
		VN	10	4.46	0.006273	$\pm 2.5$	PASS
		VN	20	4.52	0.006357	$\pm 2.5$	PASS
		VN	30	4.53	0.006371	$\pm 2.5$	PASS
		VN	40	2.79	0.003924	$\pm 2.5$	PASS
		VN	50	4.01	0.005640	$\pm 2.5$	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	1.54	0.002172	$\pm 2.5$	PASS
		VN	TN	2.75	0.003879	$\pm 2.5$	PASS
		VH	TN	4.85	0.006841	$\pm 2.5$	PASS
	MCH	VL	TN	3.87	0.005451	$\pm 2.5$	PASS
		VN	TN	2.2	0.003099	$\pm 2.5$	PASS
		VH	TN	4.98	0.007014	$\pm 2.5$	PASS
	HCH	VL	TN	3.15	0.004430	$\pm 2.5$	PASS
		VN	TN	0.47	0.000661	$\pm 2.5$	PASS
		VH	TN	-0.28	-0.000394	$\pm 2.5$	PASS
16QAM	LCH	VL	TN	1.21	0.001707	$\pm 2.5$	PASS
		VN	TN	-0.29	-0.000409	$\pm 2.5$	PASS
		VH	TN	4.76	0.006714	$\pm 2.5$	PASS
	MCH	VL	TN	2.2	0.003099	$\pm 2.5$	PASS
		VN	TN	2.67	0.003761	$\pm 2.5$	PASS
		VH	TN	-1.03	-0.001451	$\pm 2.5$	PASS
	HCH	VL	TN	-0.45	-0.000633	$\pm 2.5$	PASS
		VN	TN	-1.47	-0.002068	$\pm 2.5$	PASS
		VH	TN	3.34	0.004698	$\pm 2.5$	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-1.37	-0.001932	$\pm 2.5$	PASS
		VN	-20	1.27	0.001791	$\pm 2.5$	PASS
		VN	-10	3.13	0.004415	$\pm 2.5$	PASS
		VN	0	-1.75	-0.002468	$\pm 2.5$	PASS
		VN	10	2.55	0.003597	$\pm 2.5$	PASS
		VN	20	0.85	0.001199	$\pm 2.5$	PASS
		VN	30	4.46	0.006291	$\pm 2.5$	PASS

	MCH	VN	40	4.4	0.006206	$\pm 2.5$	PASS
		VN	50	0.31	0.000437	$\pm 2.5$	PASS
		VN	-30	1.24	0.001746	$\pm 2.5$	PASS
		VN	-20	-0.87	-0.001225	$\pm 2.5$	PASS
		VN	-10	1.08	0.001521	$\pm 2.5$	PASS
		VN	0	-1.72	-0.002423	$\pm 2.5$	PASS
		VN	10	3.33	0.004690	$\pm 2.5$	PASS
		VN	20	1.73	0.002437	$\pm 2.5$	PASS
		VN	30	-1.33	-0.001873	$\pm 2.5$	PASS
	HCH	VN	40	2.45	0.003451	$\pm 2.5$	PASS
		VN	50	0.42	0.000592	$\pm 2.5$	PASS
		VN	-30	-1.47	-0.002068	$\pm 2.5$	PASS
		VN	-20	0.6	0.000844	$\pm 2.5$	PASS
		VN	-10	-1.78	-0.002504	$\pm 2.5$	PASS
		VN	0	3.74	0.005260	$\pm 2.5$	PASS
		VN	10	-1.08	-0.001519	$\pm 2.5$	PASS
		VN	20	1.81	0.002546	$\pm 2.5$	PASS
		VN	30	-0.19	-0.000267	$\pm 2.5$	PASS
	LCH	VN	40	-1.92	-0.002700	$\pm 2.5$	PASS
		VN	50	4.97	0.006990	$\pm 2.5$	PASS
		VN	-30	1.31	0.001845	$\pm 2.5$	PASS
		VN	-20	2.7	0.003803	$\pm 2.5$	PASS
		VN	-10	1.87	0.002634	$\pm 2.5$	PASS
		VN	0	2.58	0.003634	$\pm 2.5$	PASS
		VN	10	3.59	0.005056	$\pm 2.5$	PASS
		VN	20	-1.13	-0.001592	$\pm 2.5$	PASS
		VN	30	0.13	0.000183	$\pm 2.5$	PASS
	MCH	VN	40	1.57	0.002211	$\pm 2.5$	PASS
		VN	50	3.95	0.005563	$\pm 2.5$	PASS
		VN	-30	-0.52	-0.000731	$\pm 2.5$	PASS
		VN	-20	1.33	0.001871	$\pm 2.5$	PASS
		VN	-10	2.36	0.003319	$\pm 2.5$	PASS
		VN	0	3.54	0.004979	$\pm 2.5$	PASS
		VN	10	4.51	0.006343	$\pm 2.5$	PASS
		VN	20	2.87	0.004037	$\pm 2.5$	PASS
		VN	30	-0.54	-0.000759	$\pm 2.5$	PASS
	HCH	VN	40	-1.05	-0.001477	$\pm 2.5$	PASS
		VN	50	2.35	0.003305	$\pm 2.5$	PASS
		VN	-30	-0.57	-0.000802	$\pm 2.5$	PASS
		VN	-20	4.25	0.005977	$\pm 2.5$	PASS
		VN	-10	-0.01	-0.000014	$\pm 2.5$	PASS

		VN	0	3.23	0.004543	$\pm$ 2.5	PASS
		VN	10	-1.42	-0.001997	$\pm$ 2.5	PASS
		VN	20	-0.66	-0.000928	$\pm$ 2.5	PASS
		VN	30	4.67	0.006568	$\pm$ 2.5	PASS
		VN	40	-1.93	-0.002714	$\pm$ 2.5	PASS
		VN	50	3.46	0.004866	$\pm$ 2.5	PASS