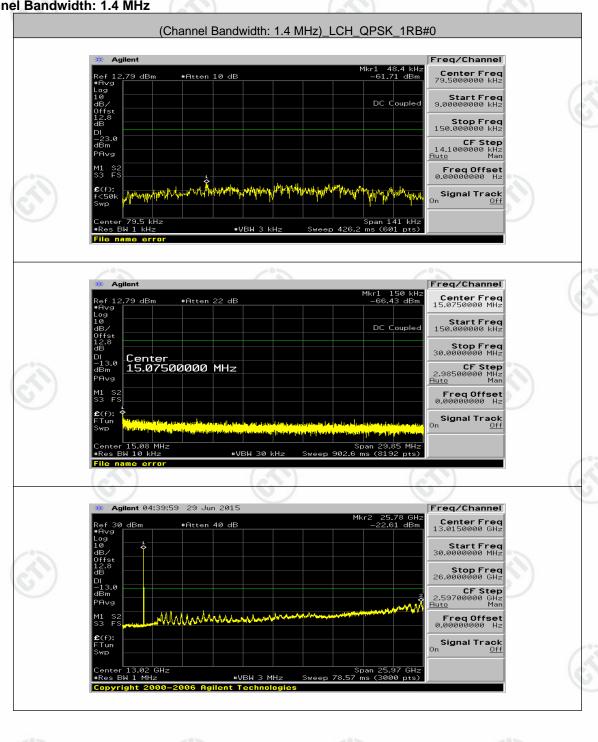




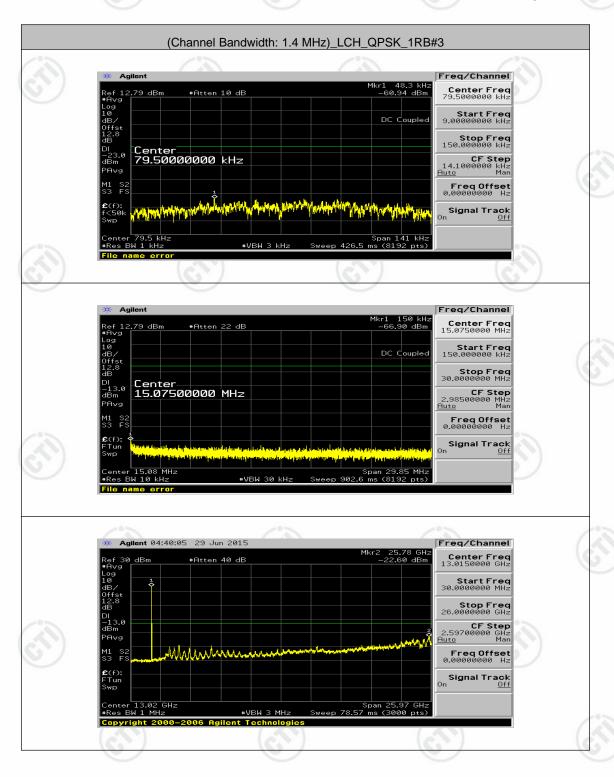
Appendix E: Conducted Spurious Emission

Test Graphs

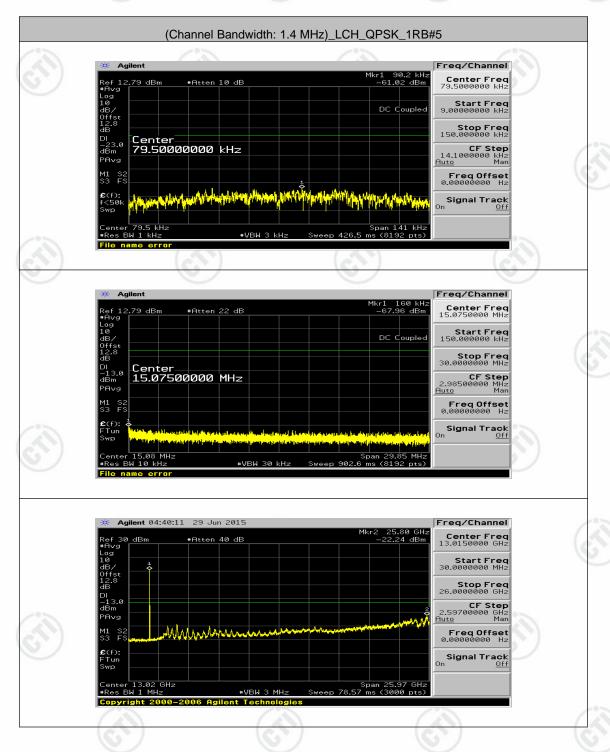
Channel Bandwidth: 1.4 MHz



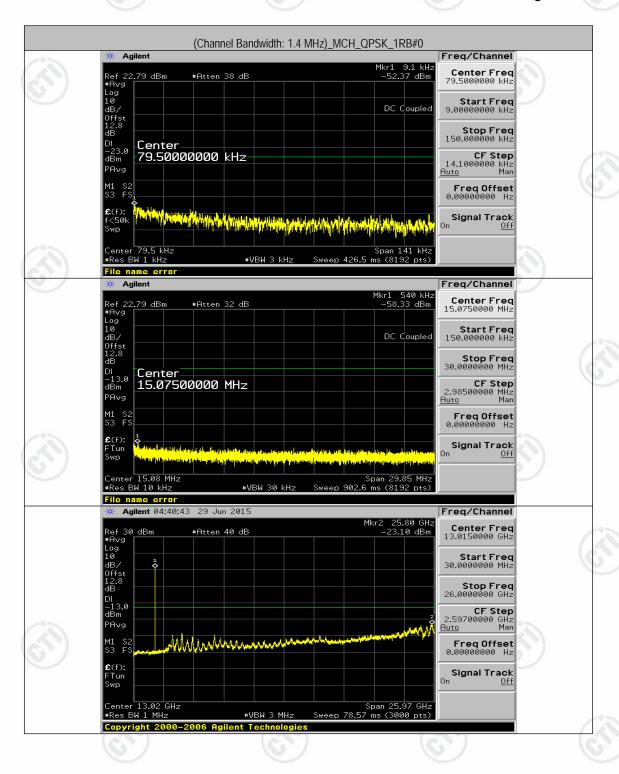




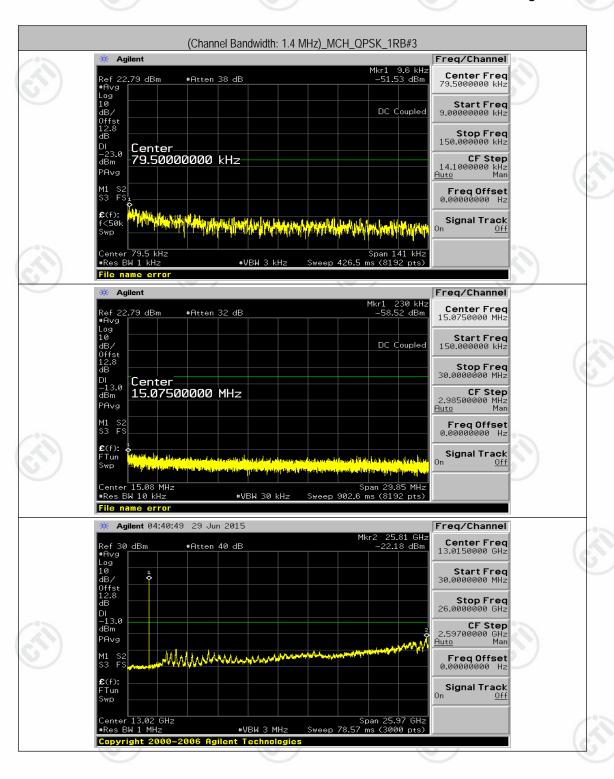


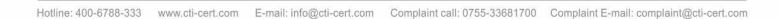




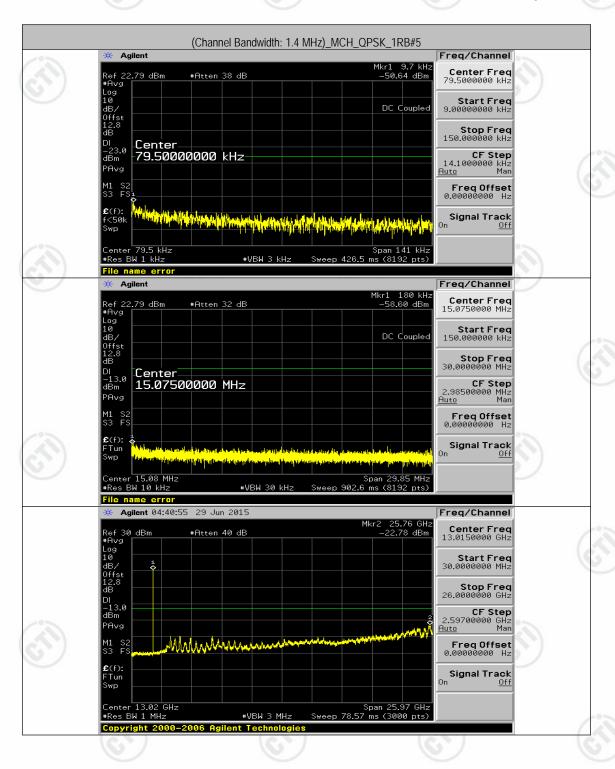




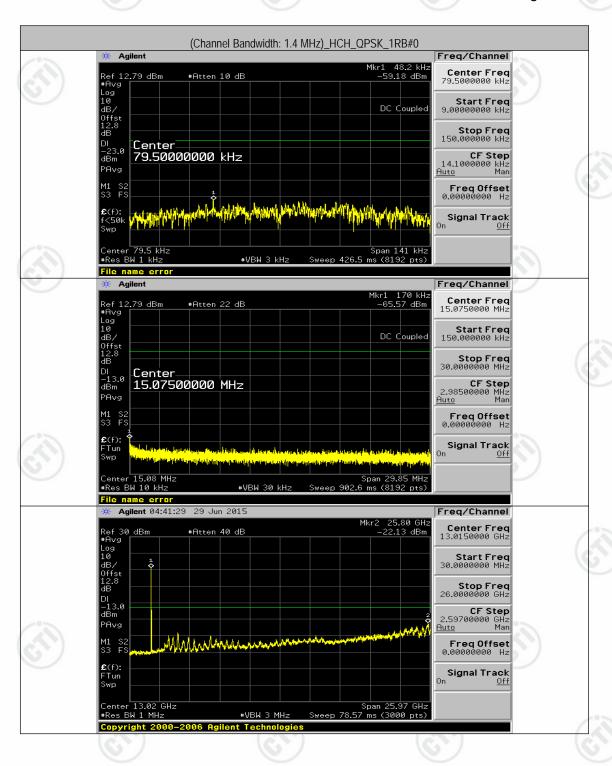




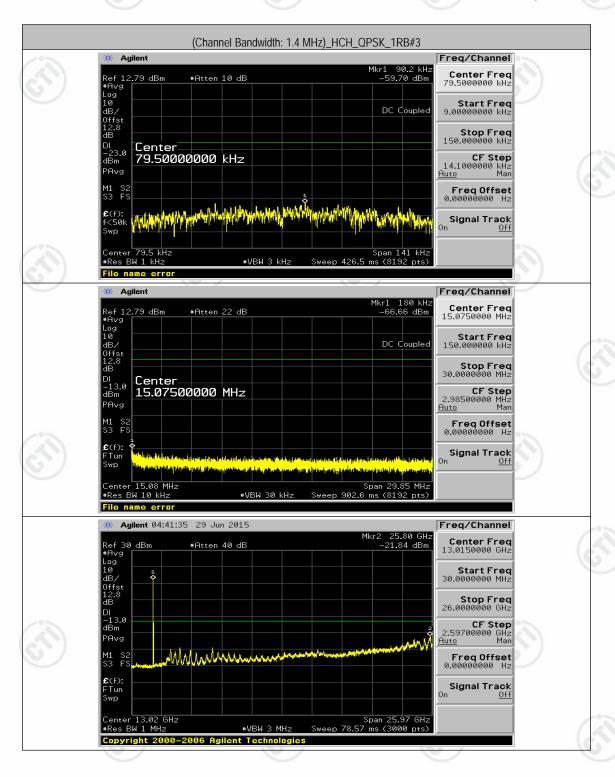






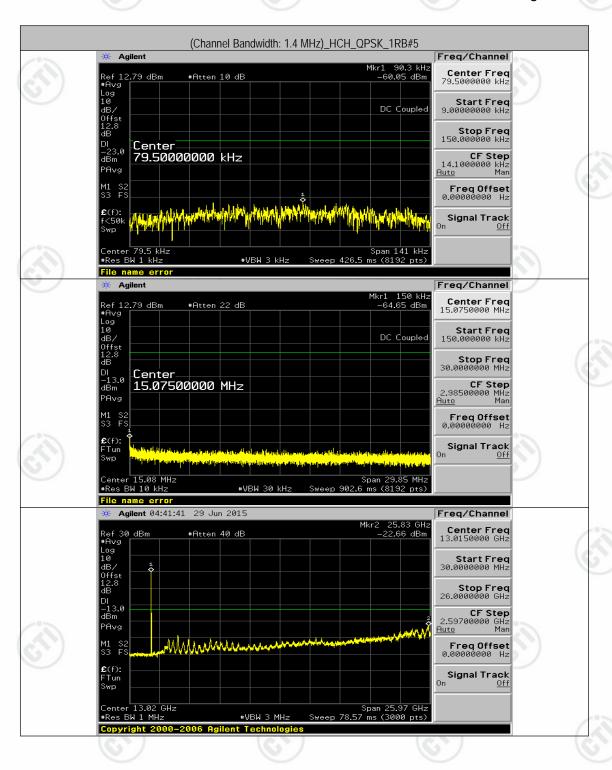




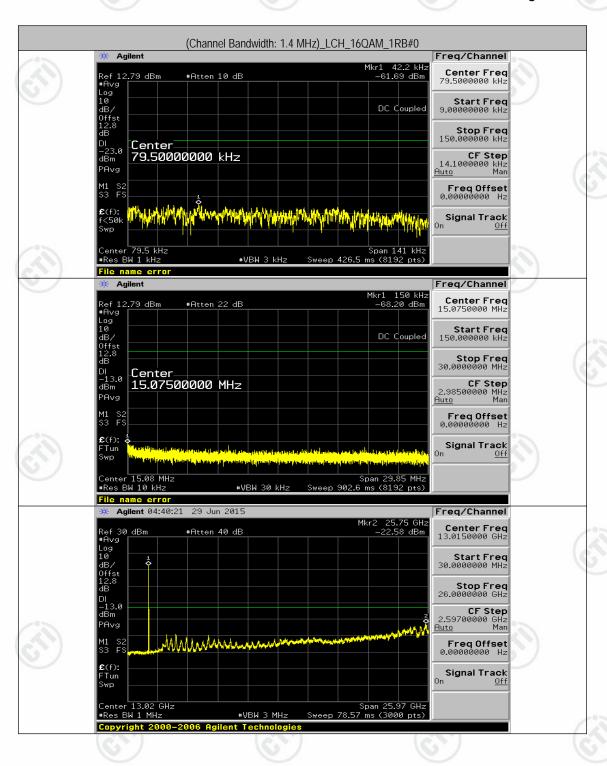




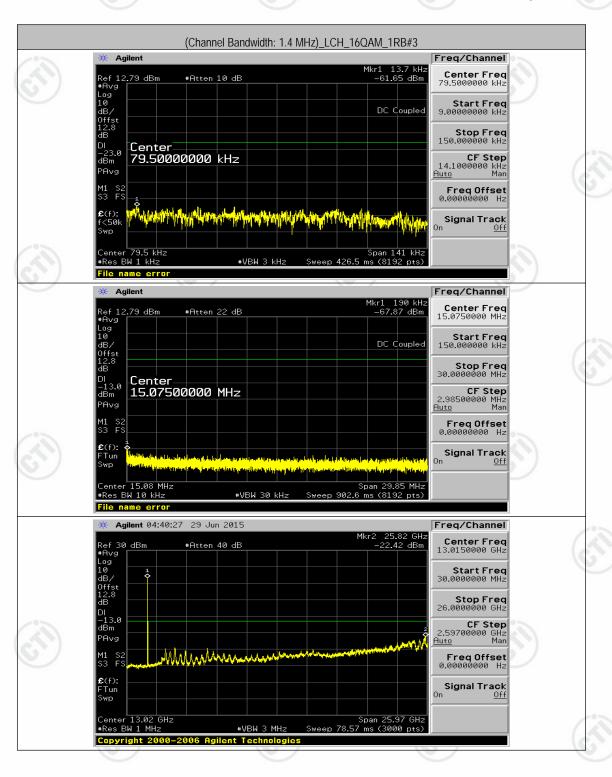


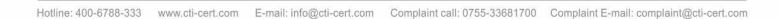




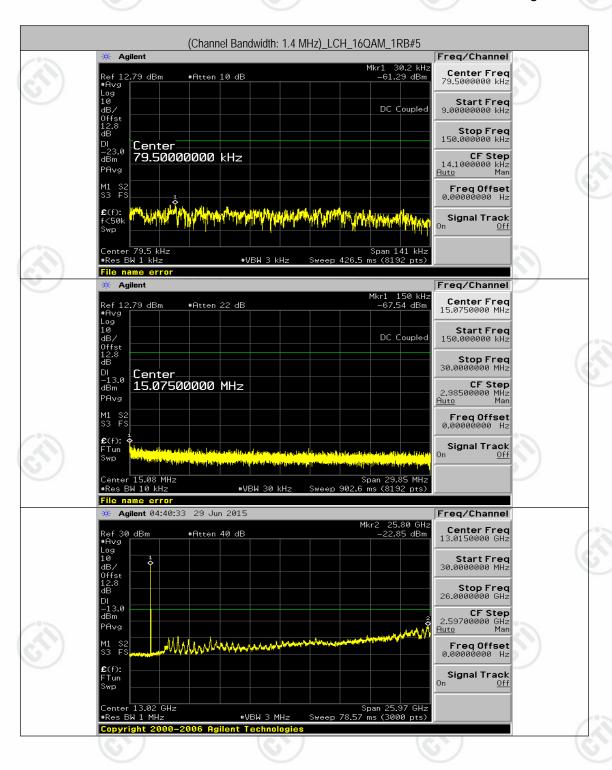




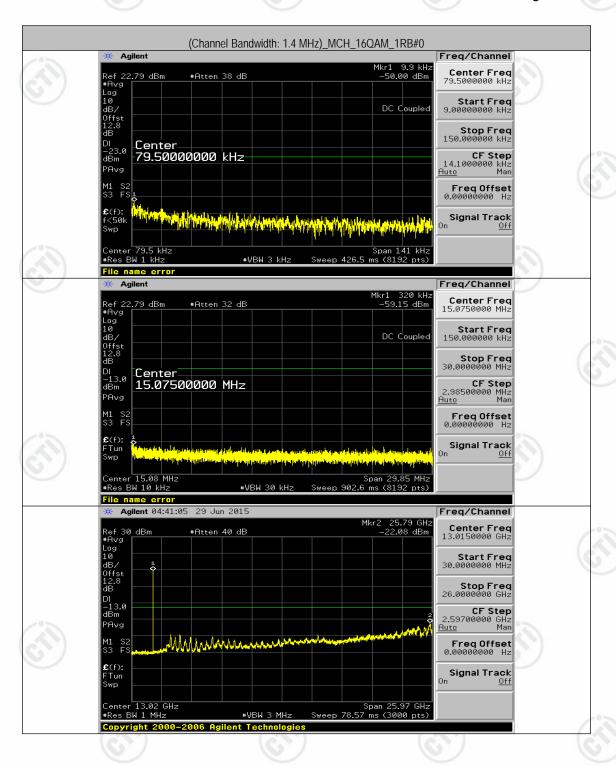






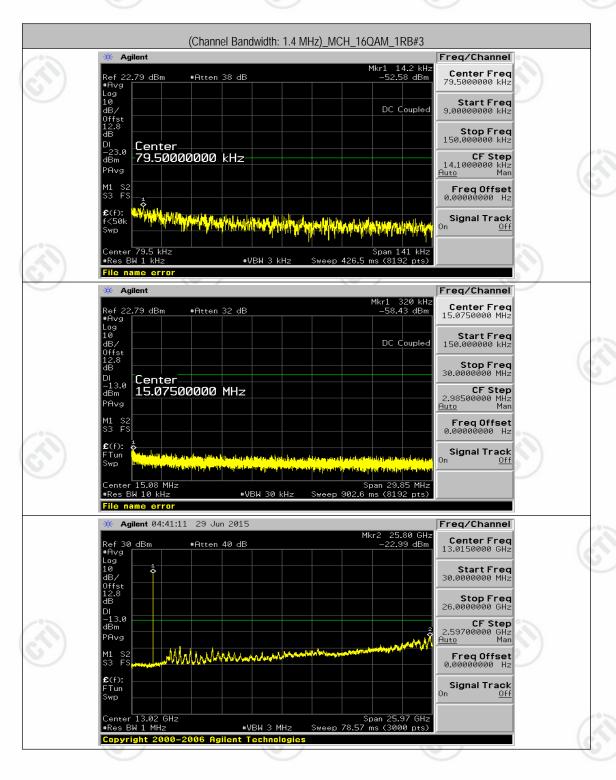






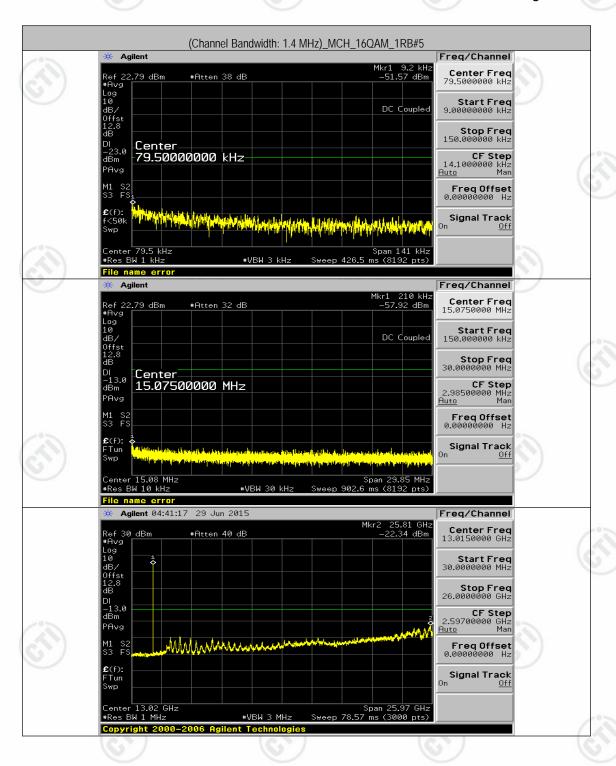






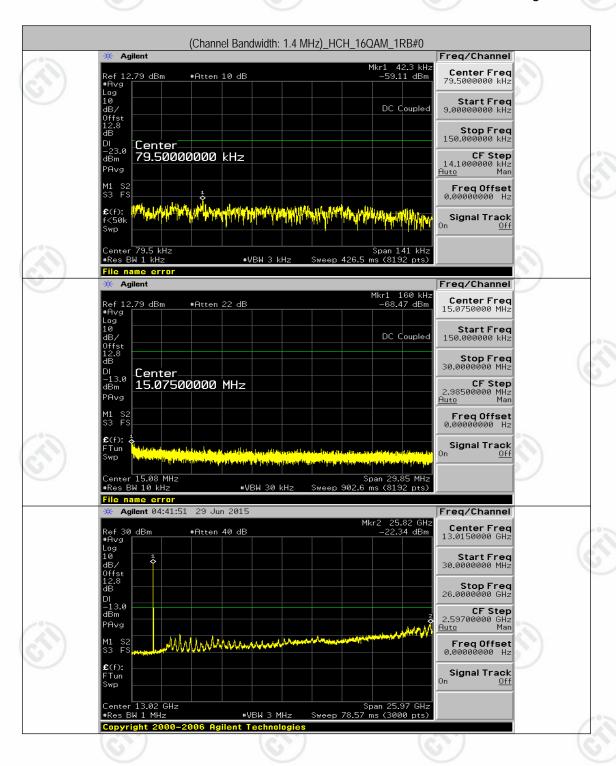






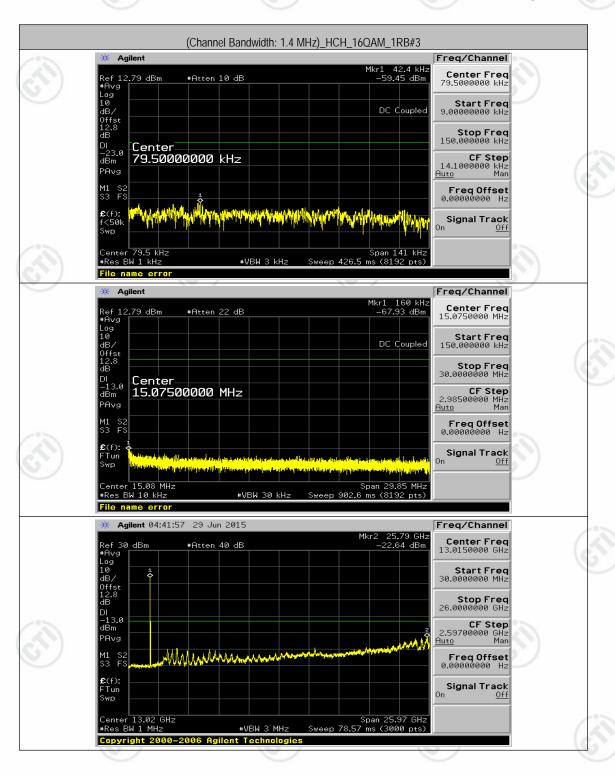


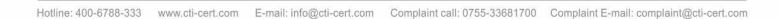




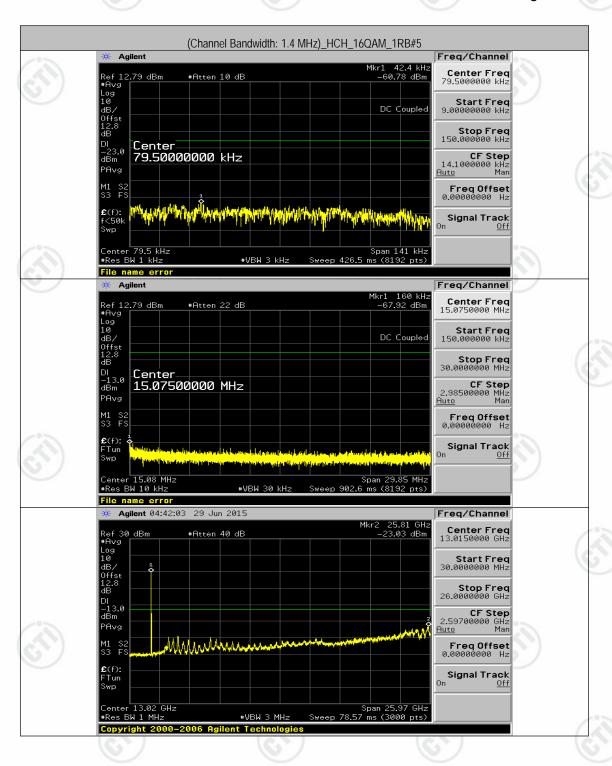


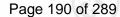






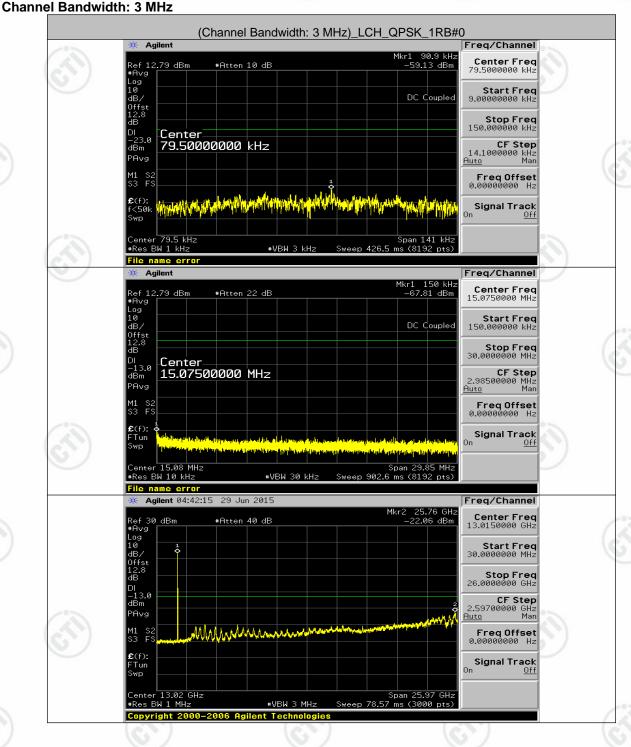






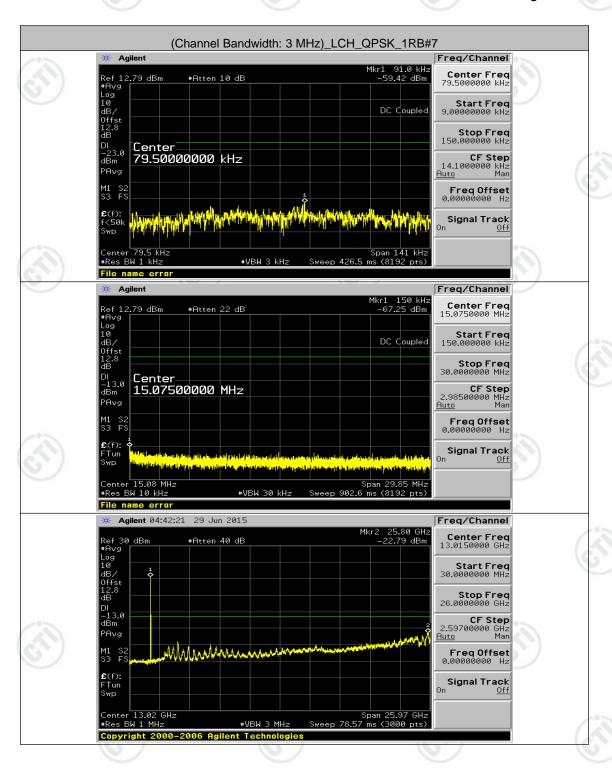


1.0po.t.101.1 ====0=100=100



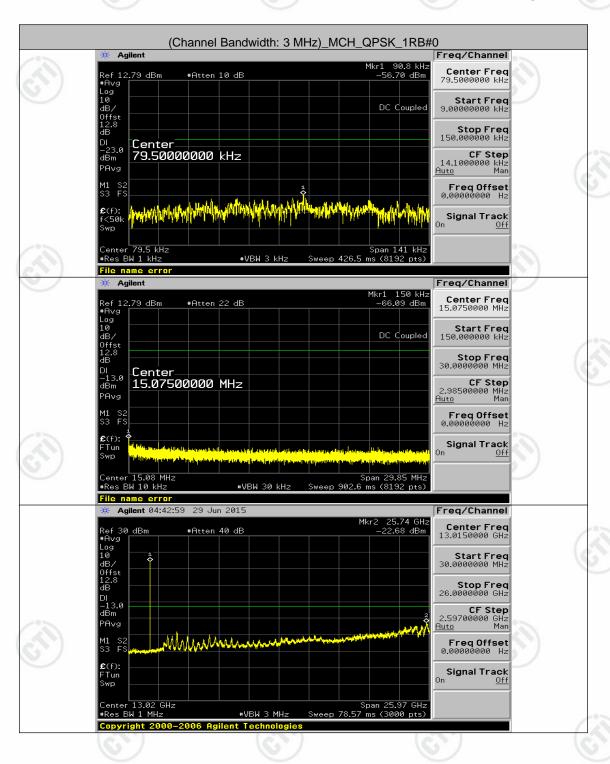




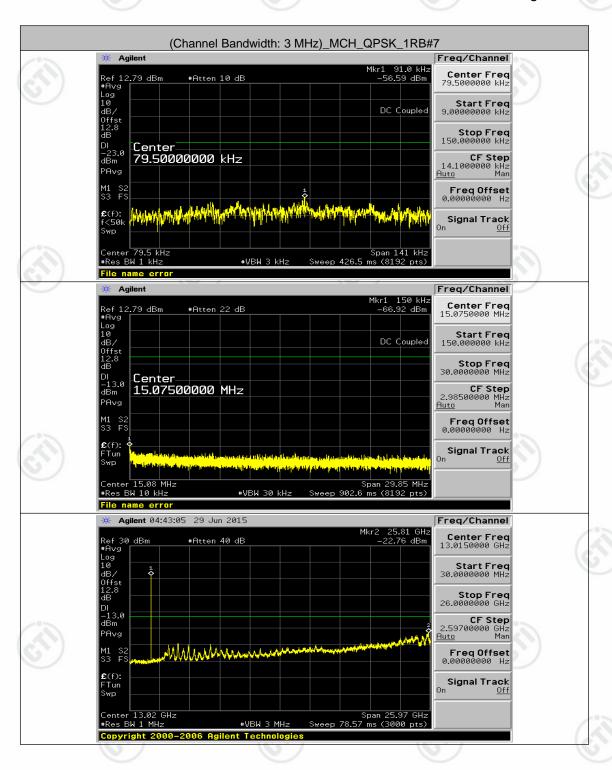






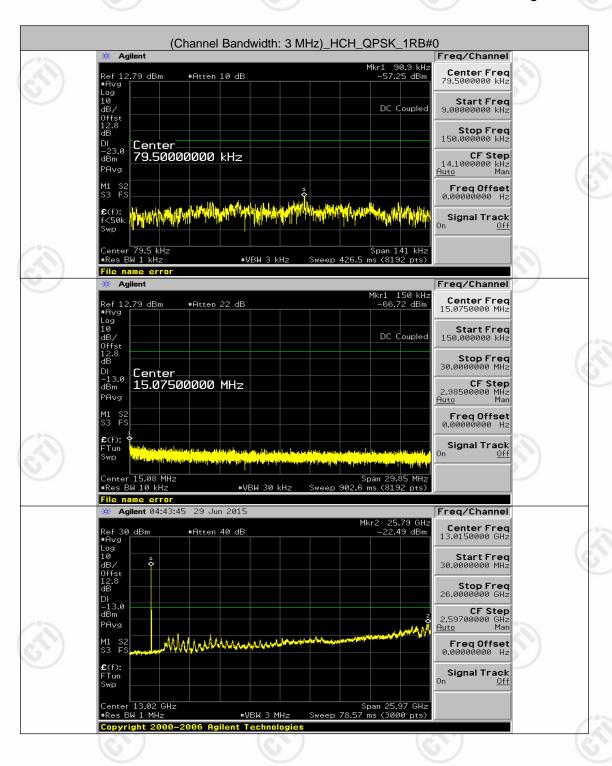




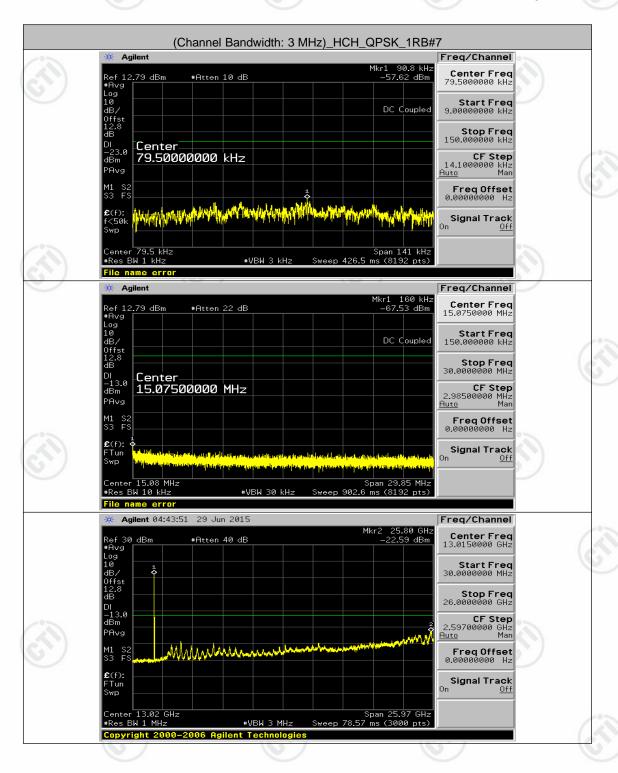




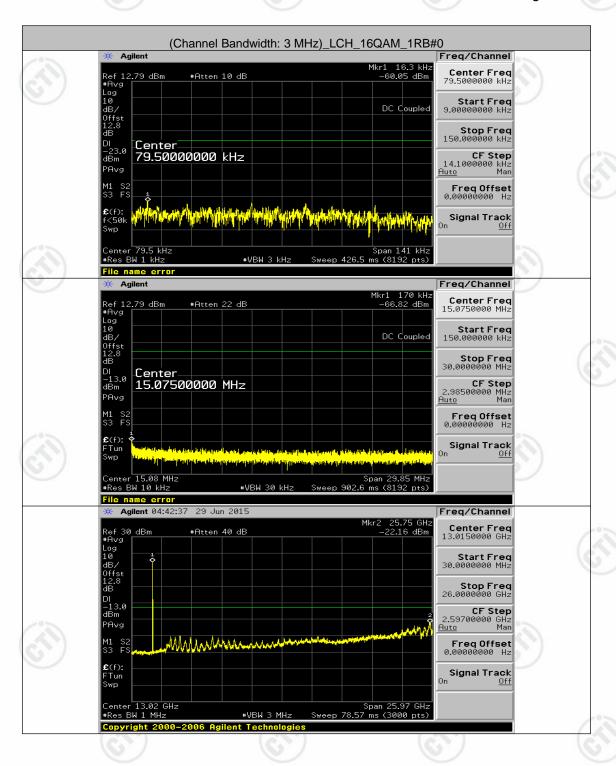






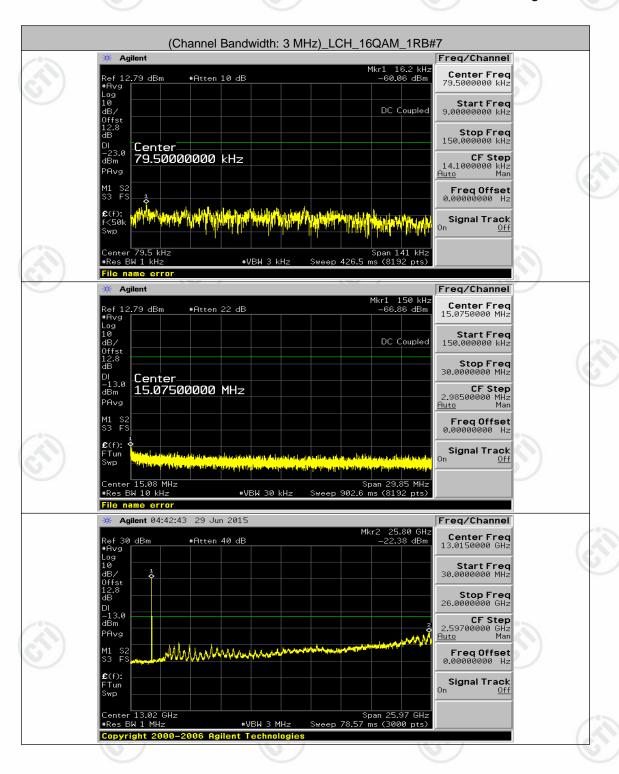






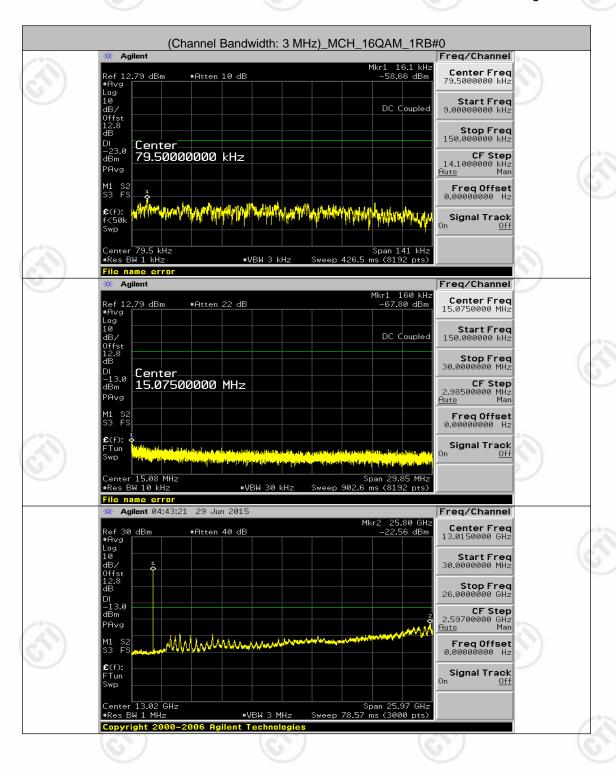




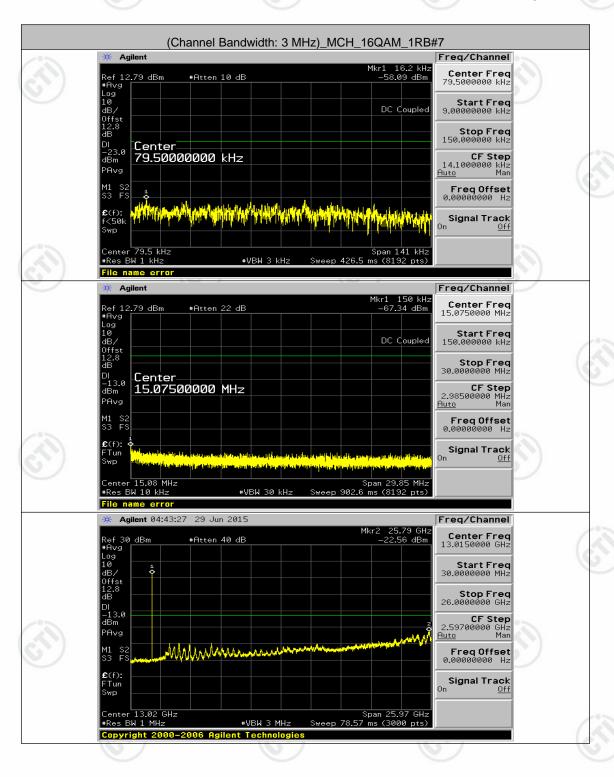






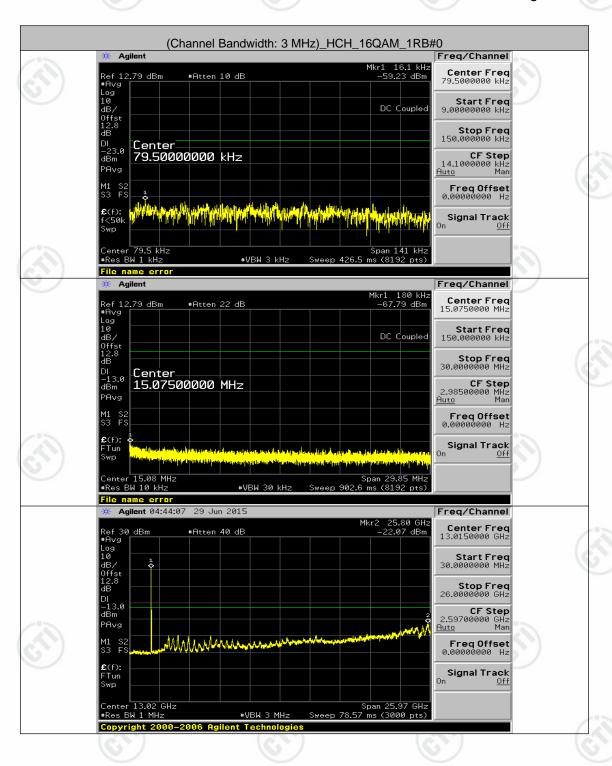




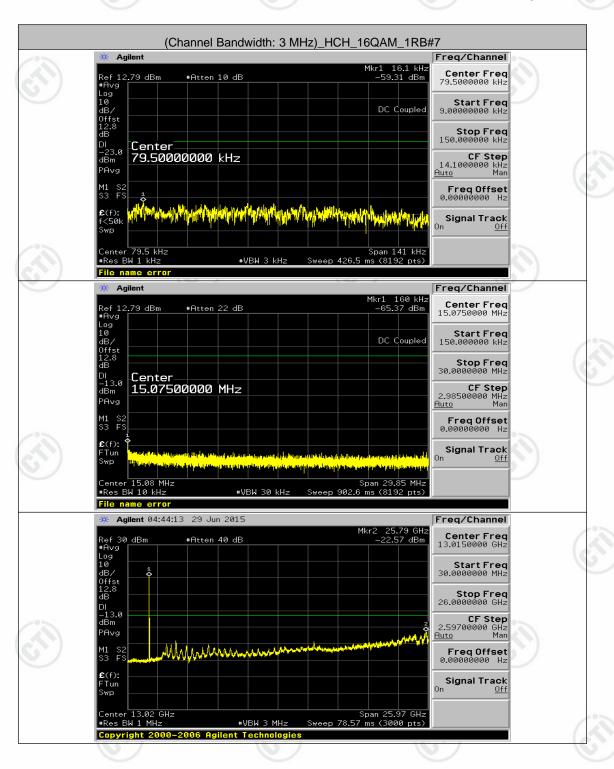










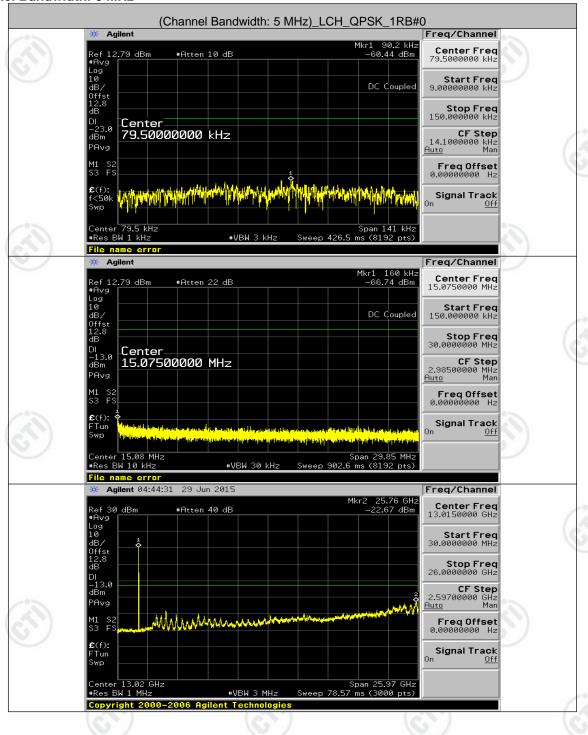






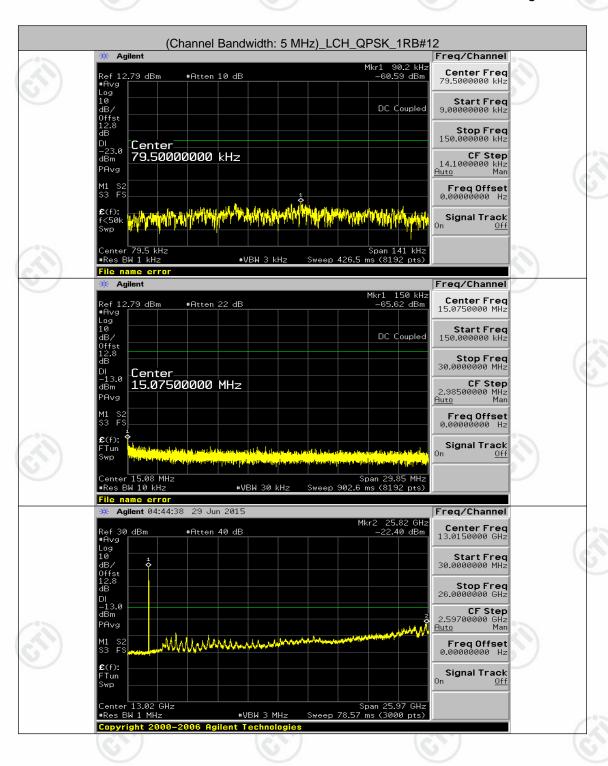
1.0po.t. 1.01 1 ===0=1.00=1.000



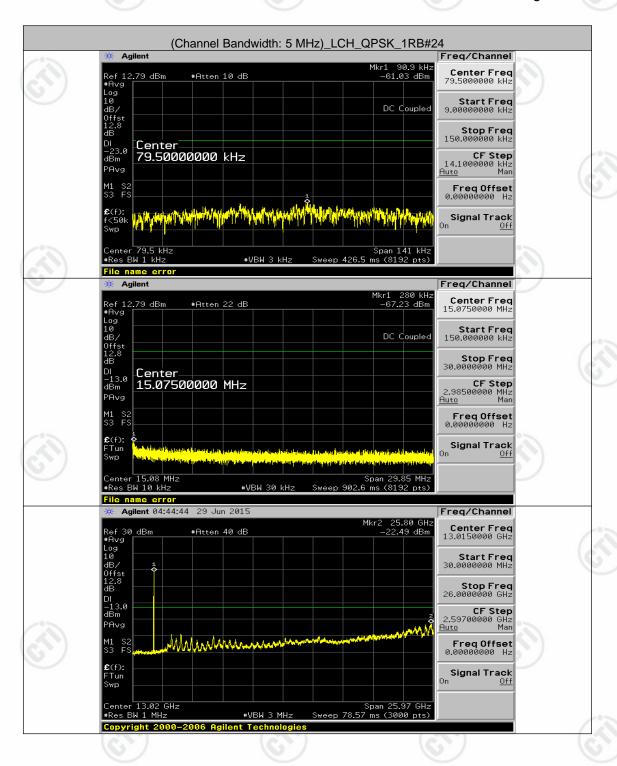






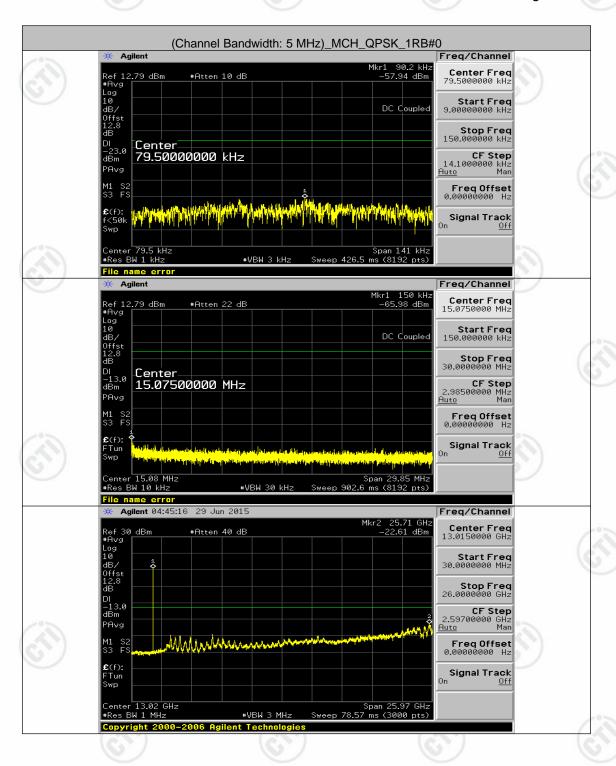






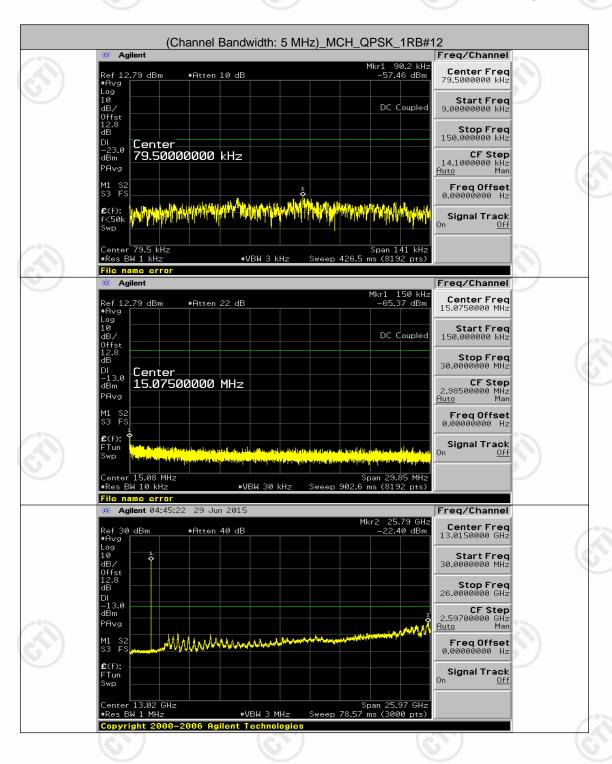




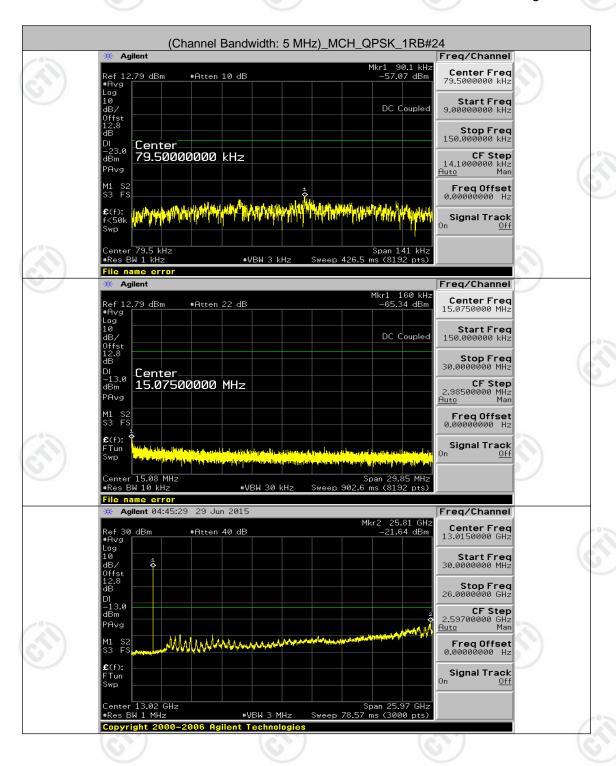






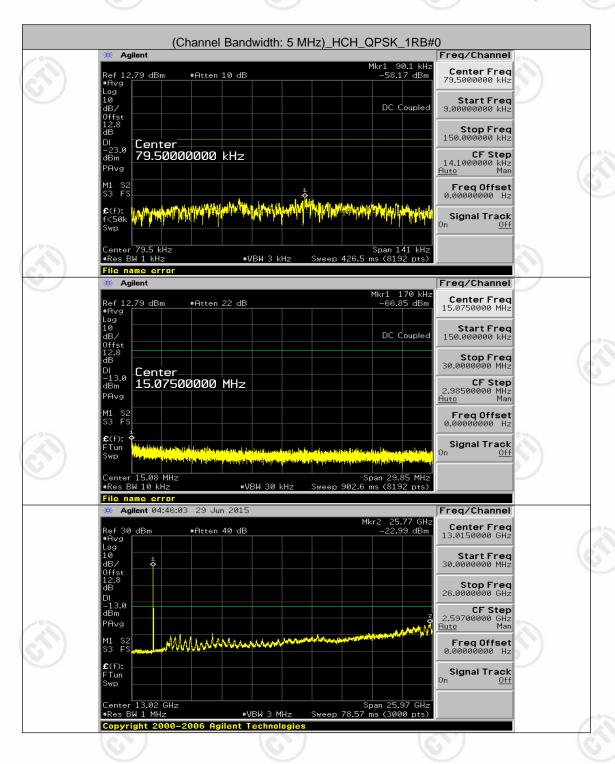






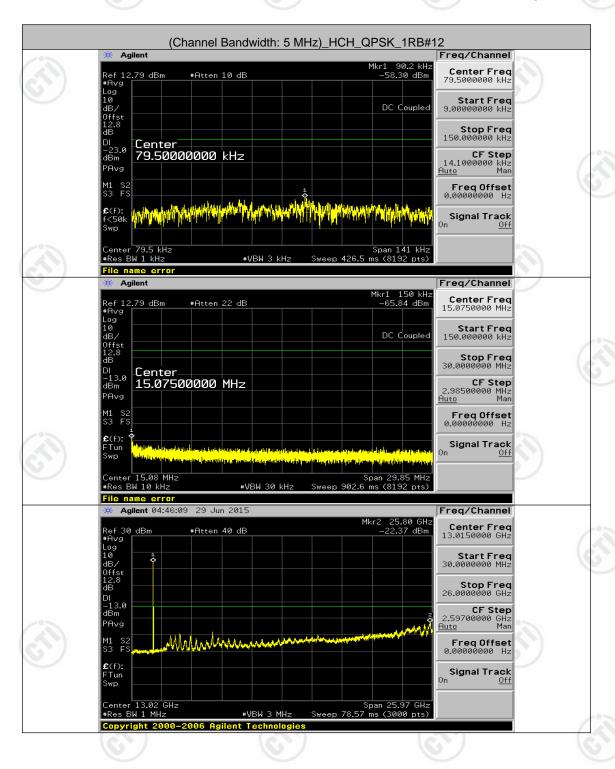




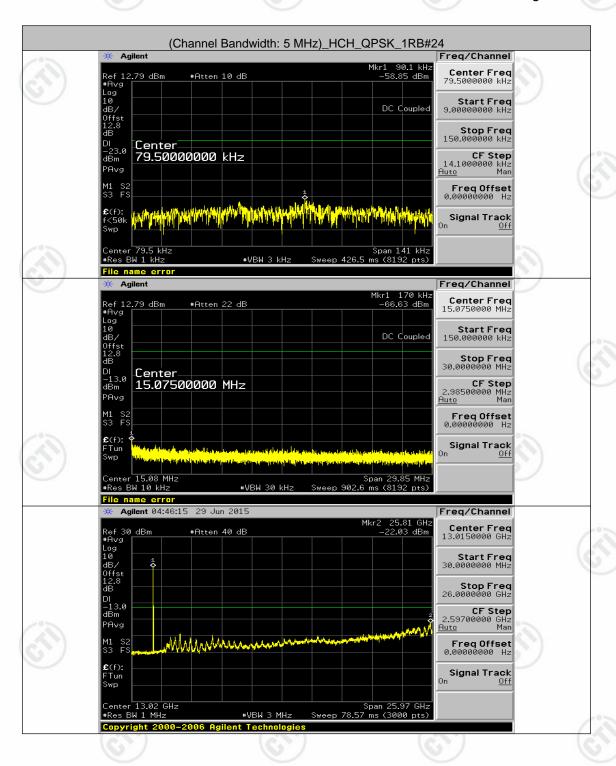






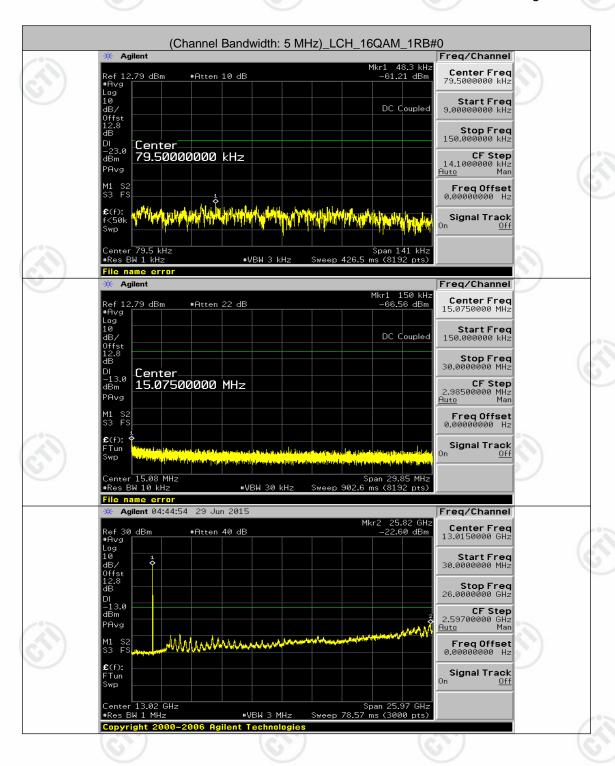




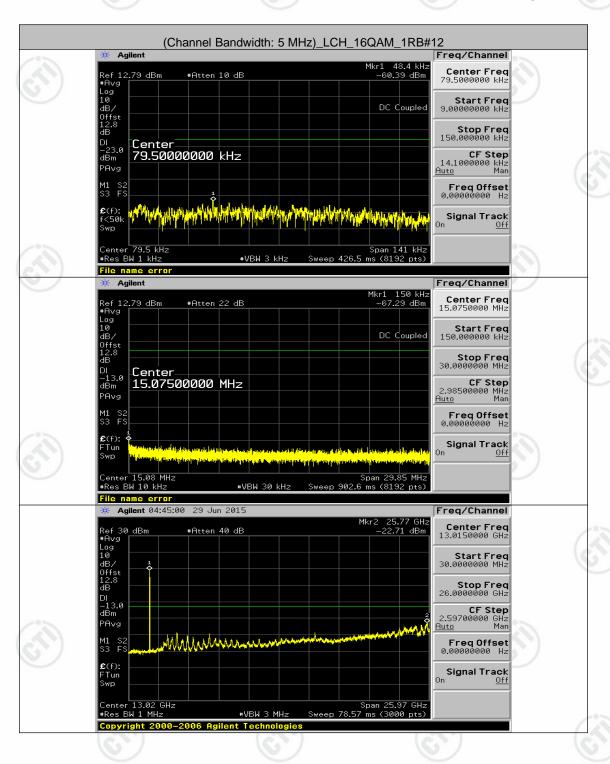




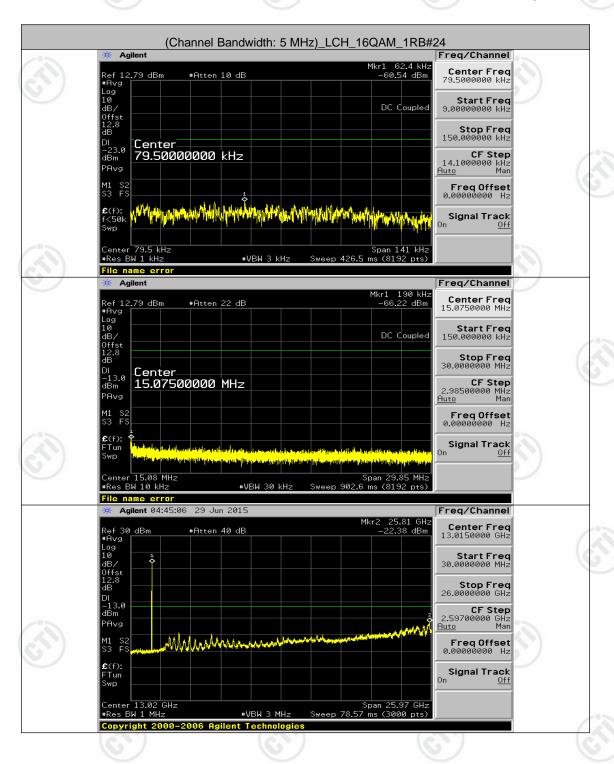






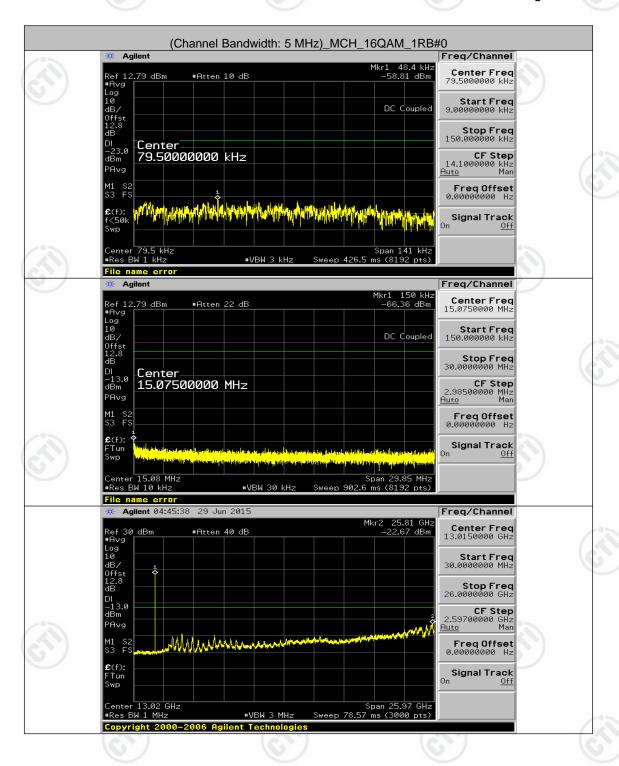






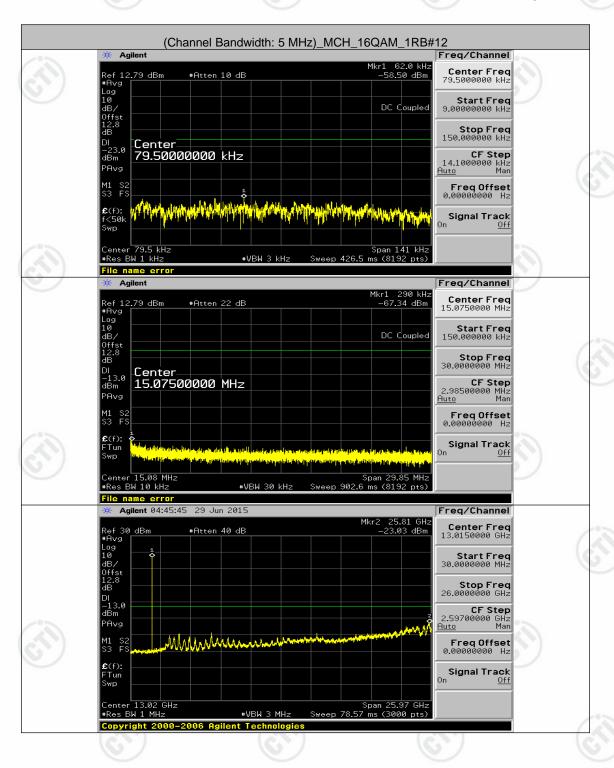




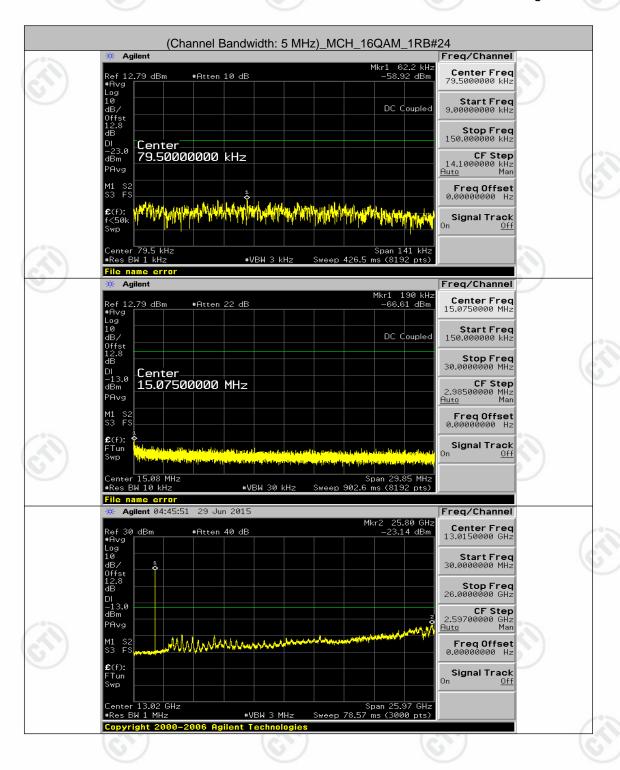






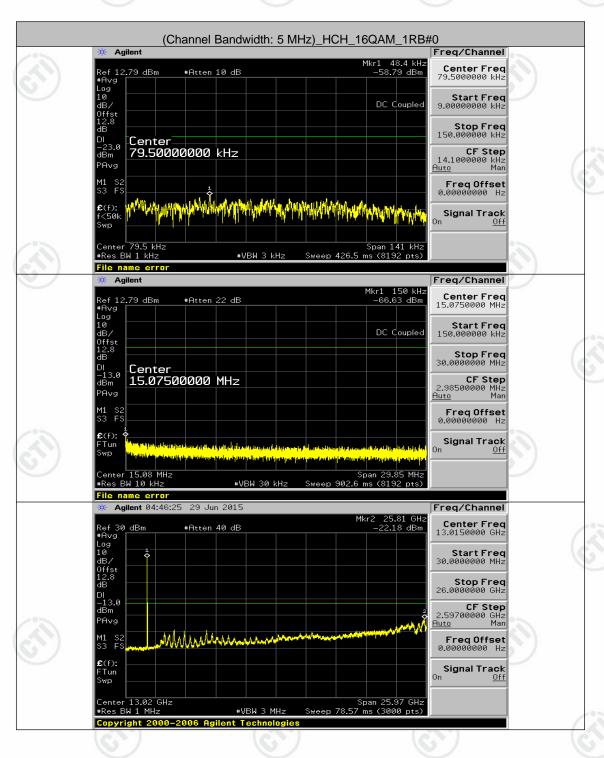




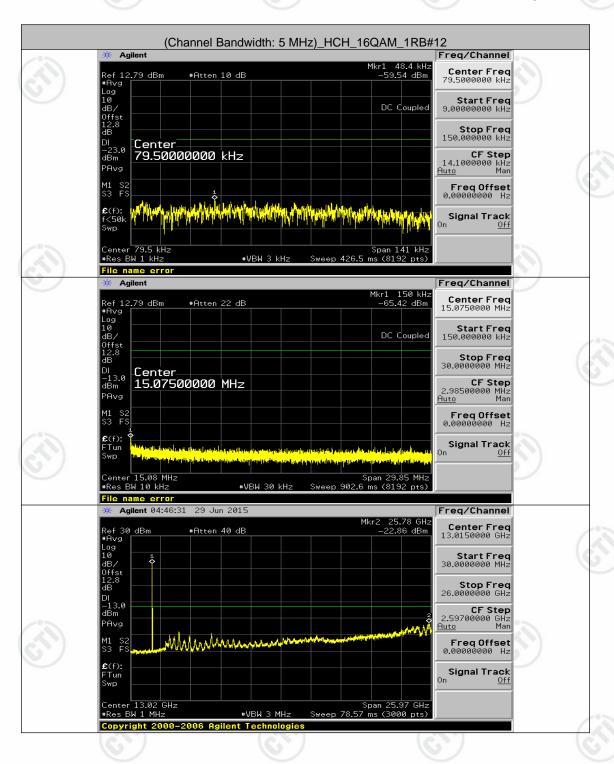






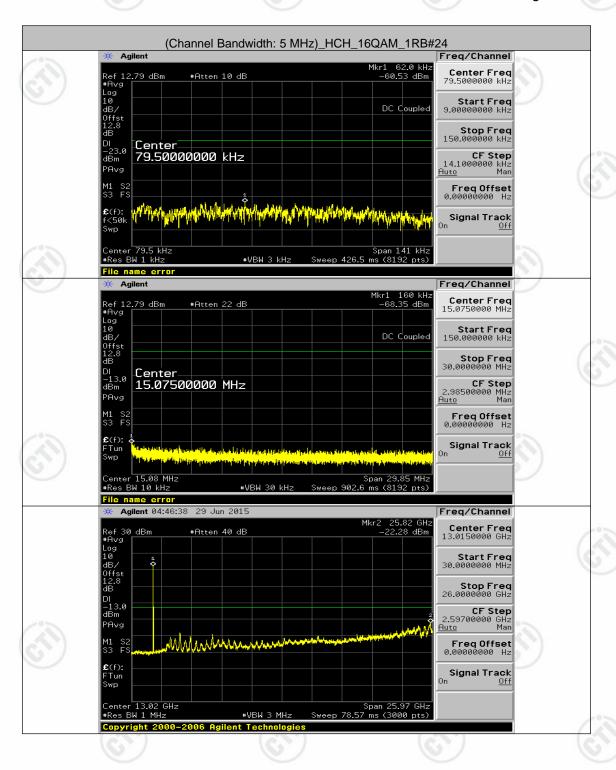


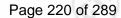






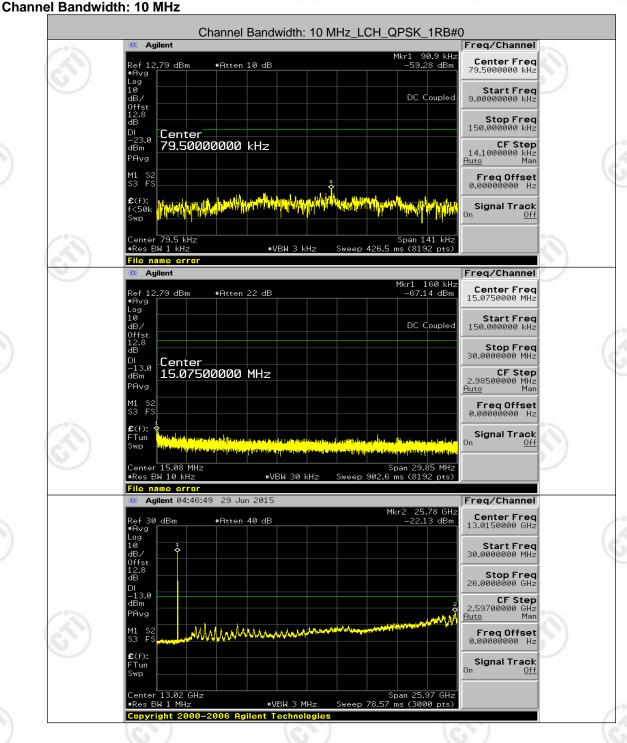






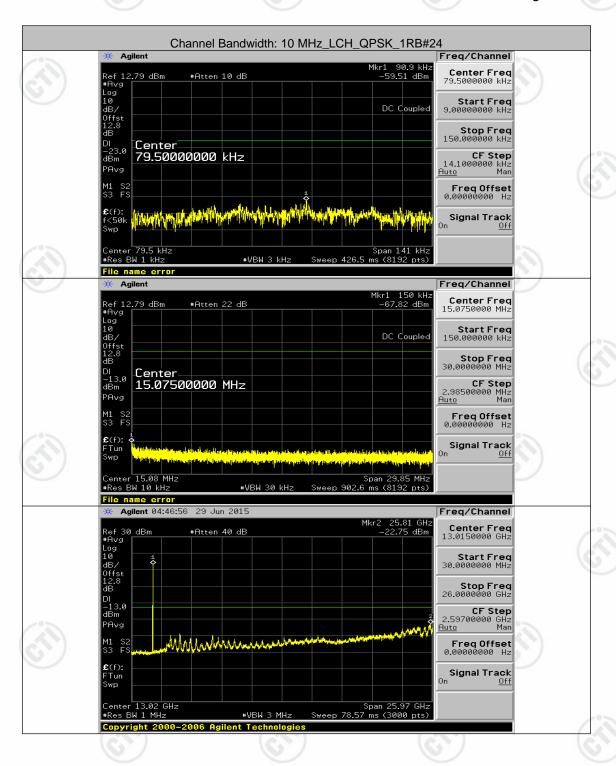


Observat Demakrifalika 40 MHz



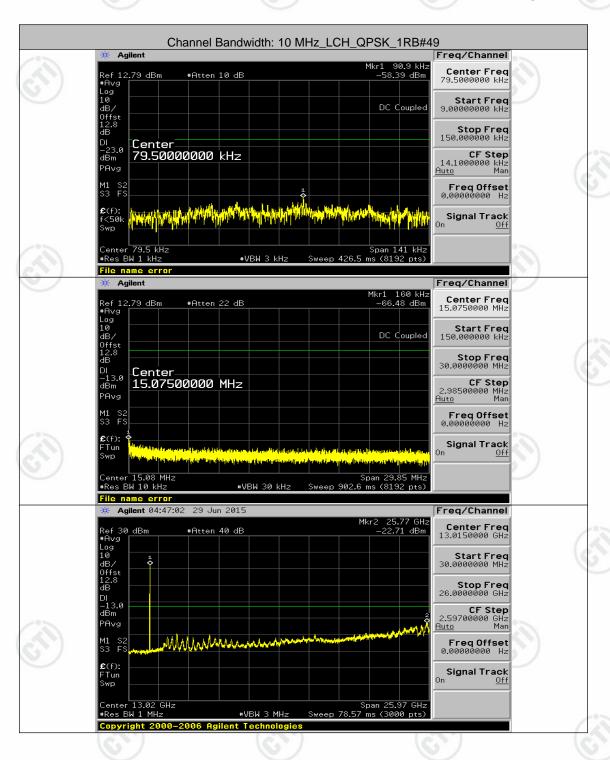






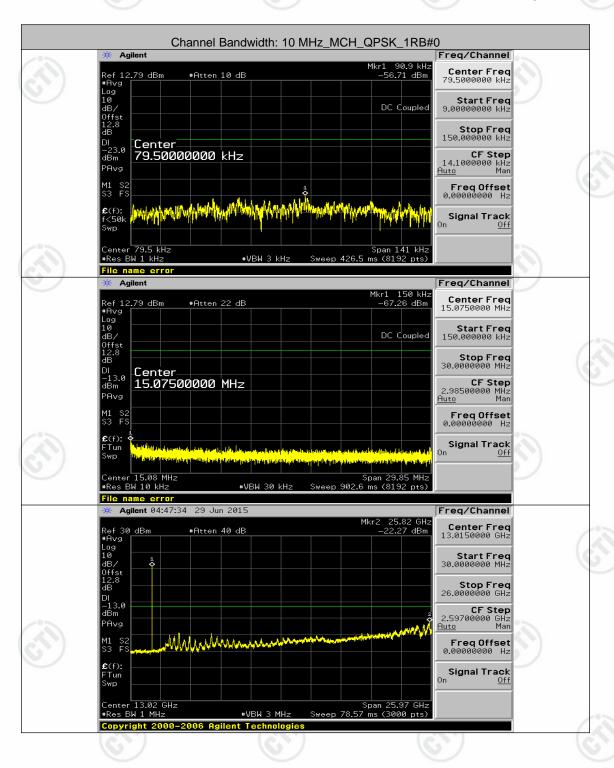




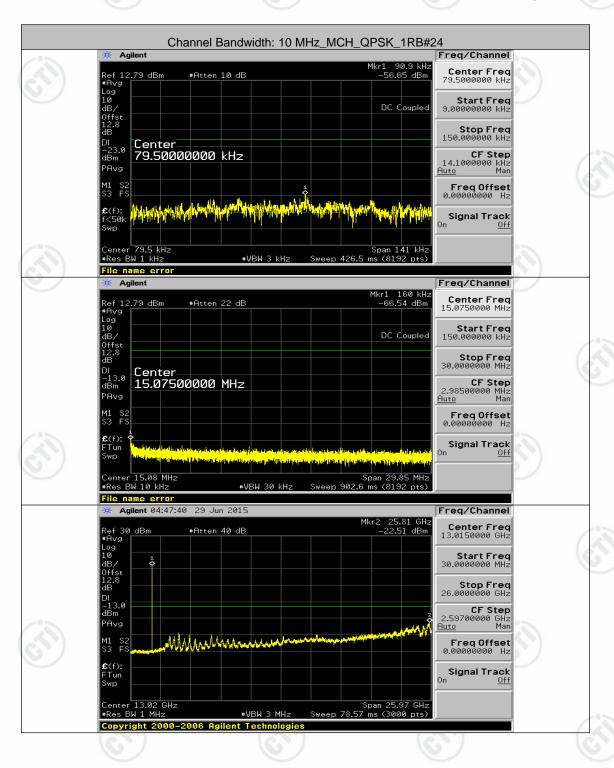




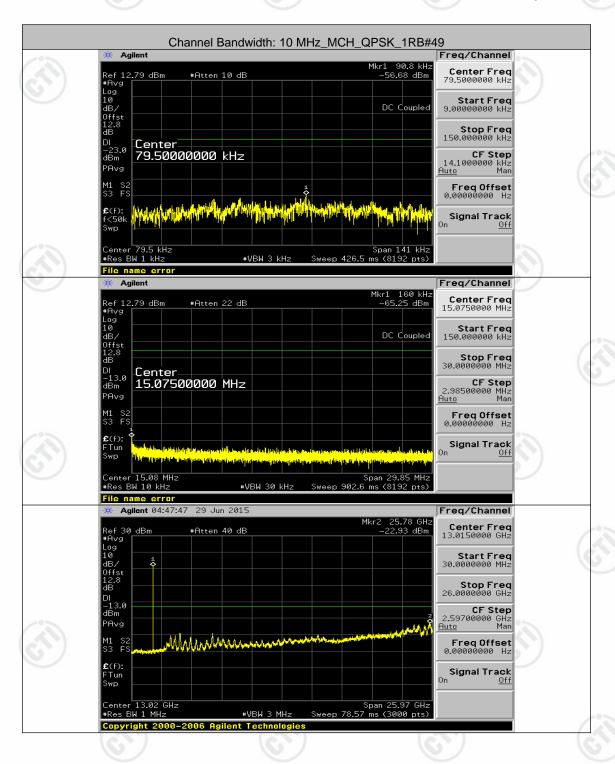






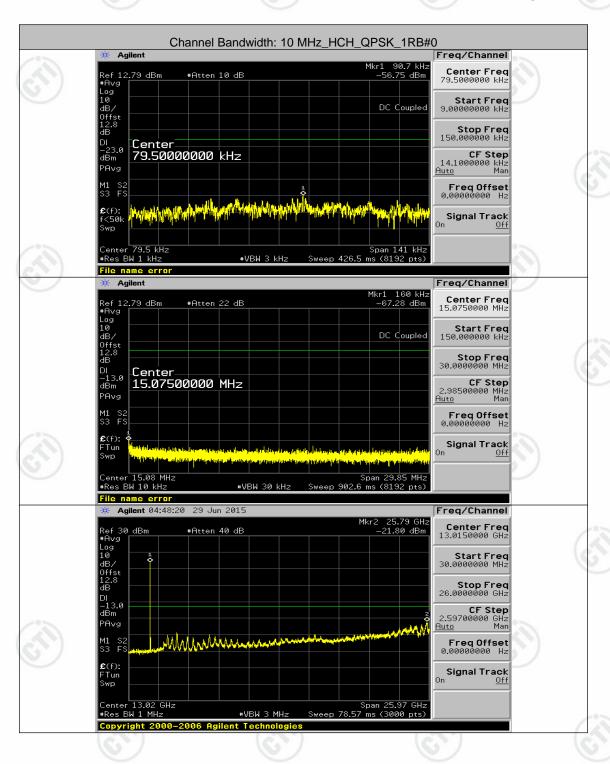




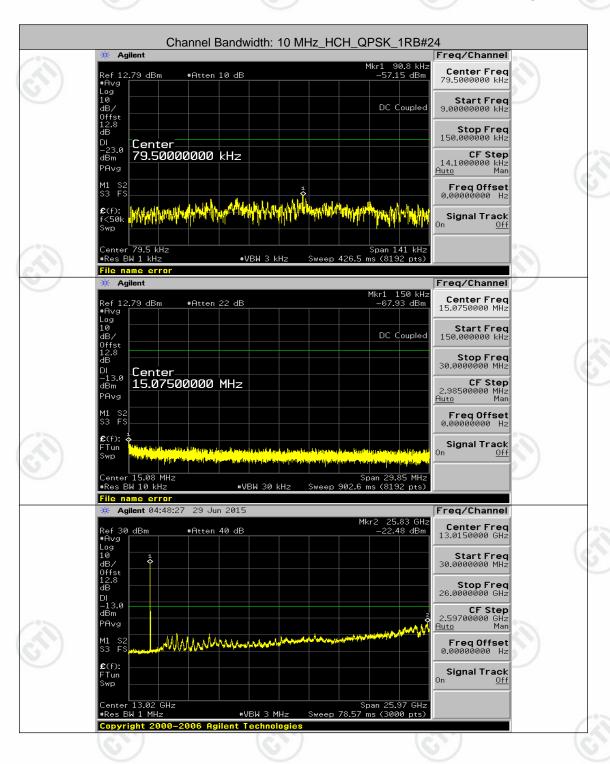




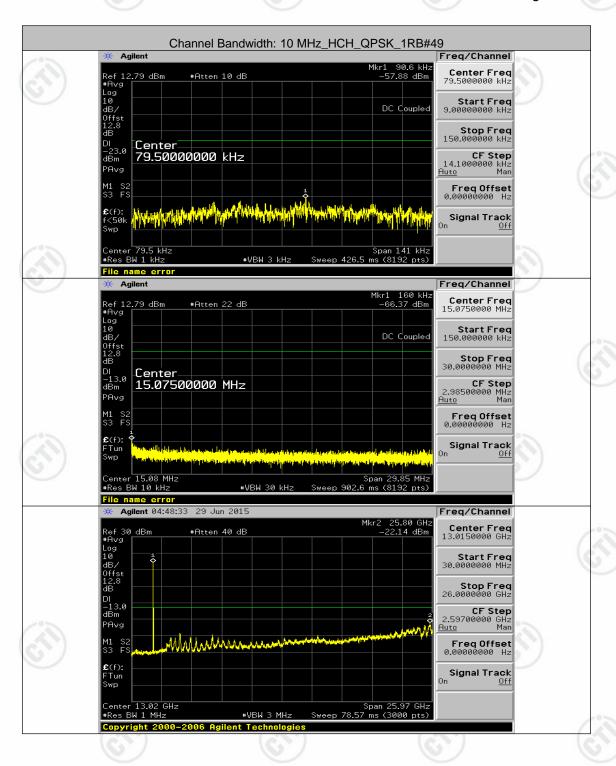






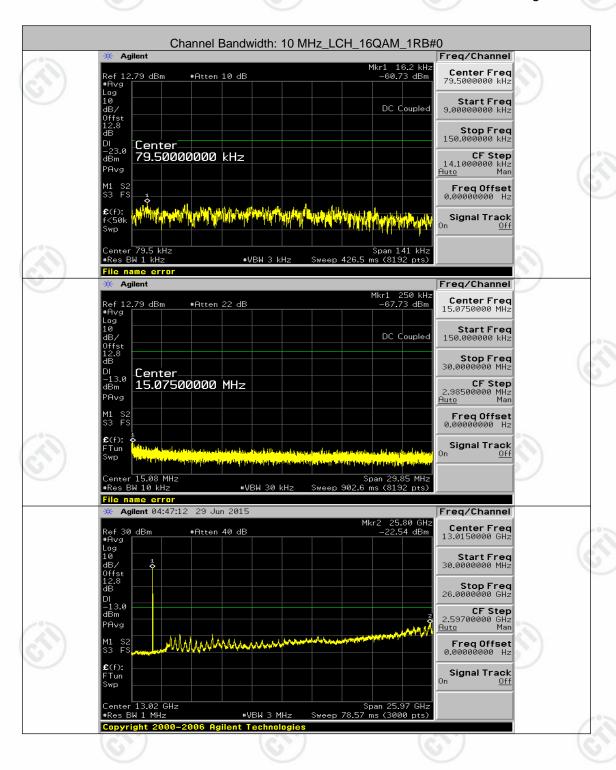




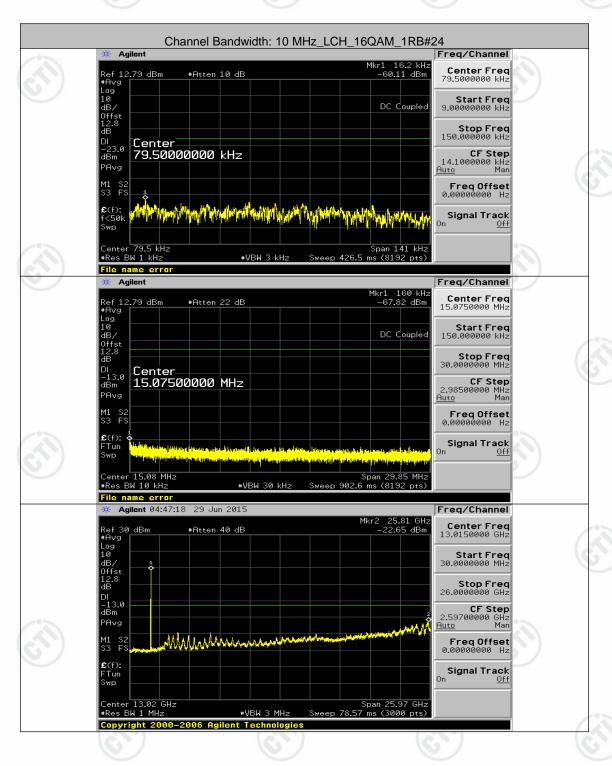




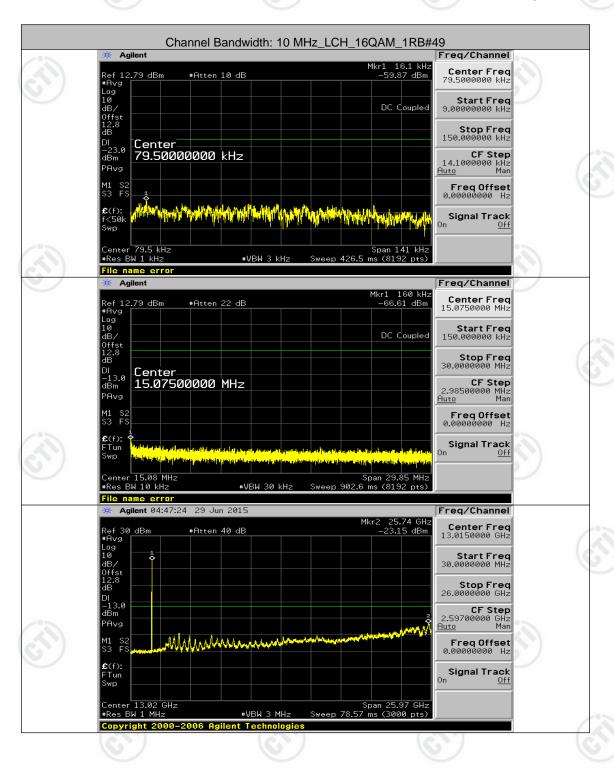




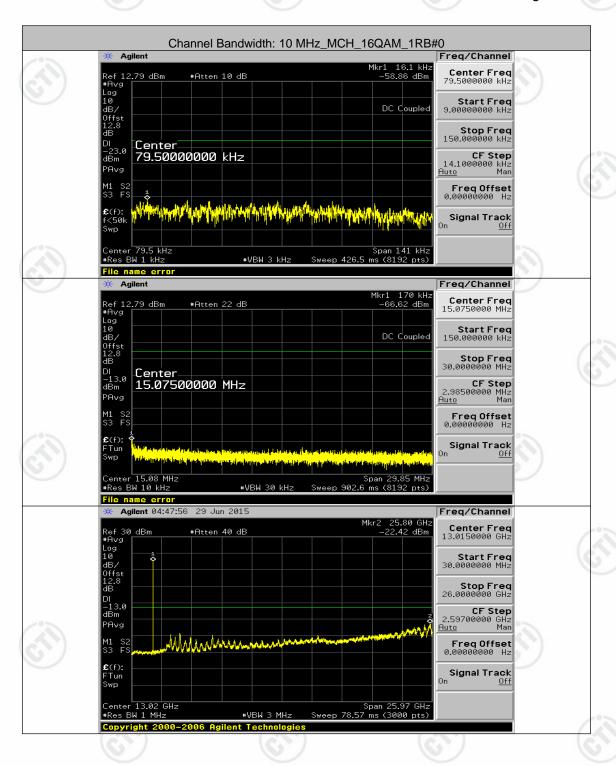






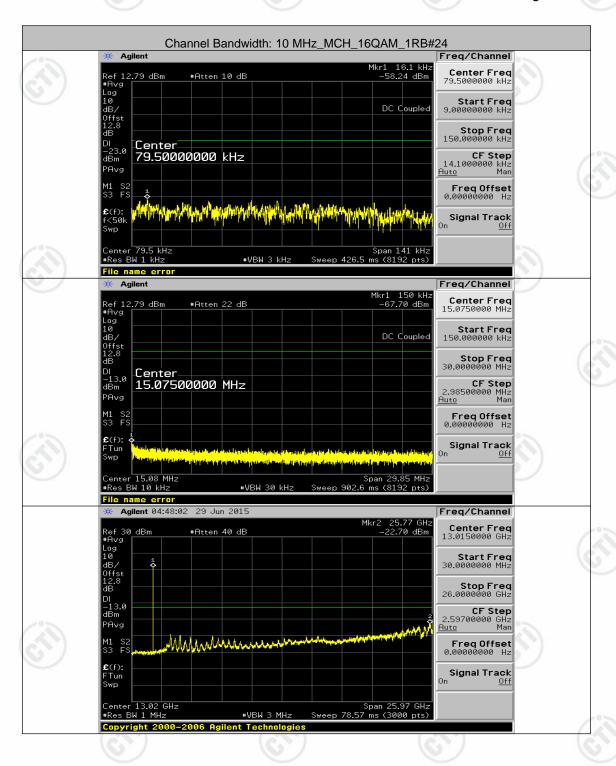






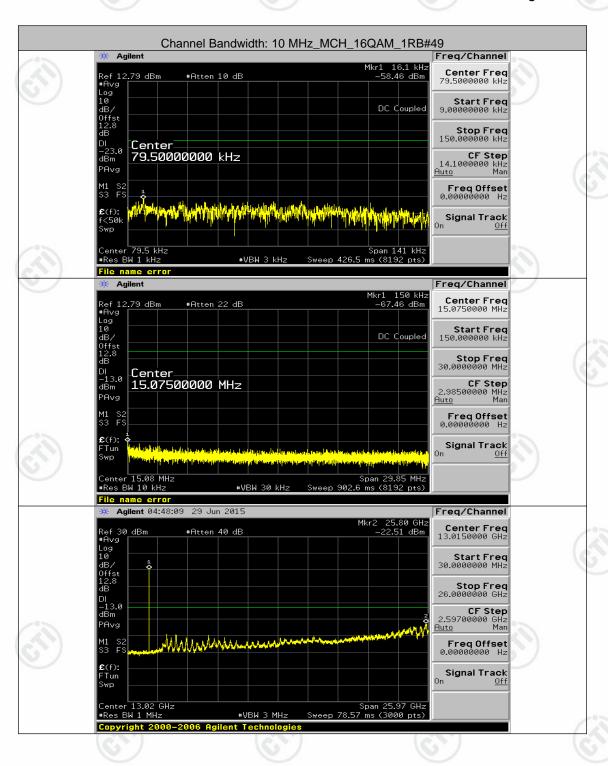




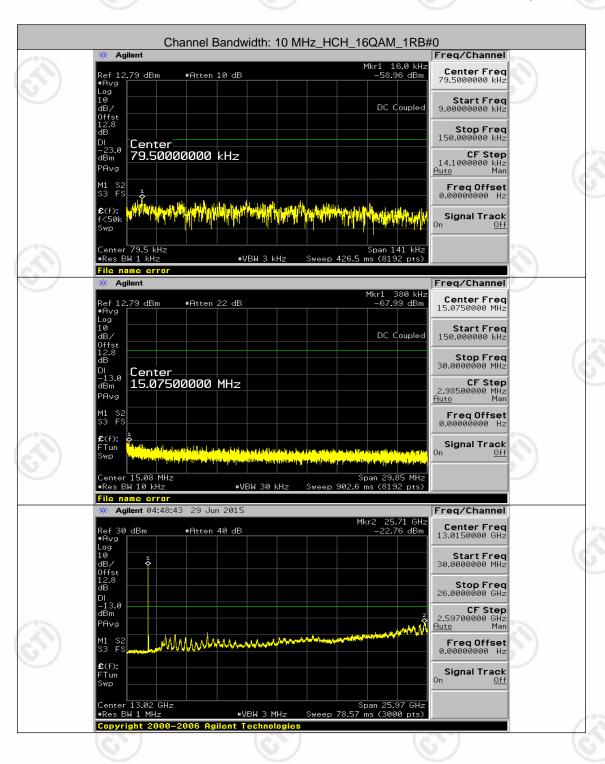




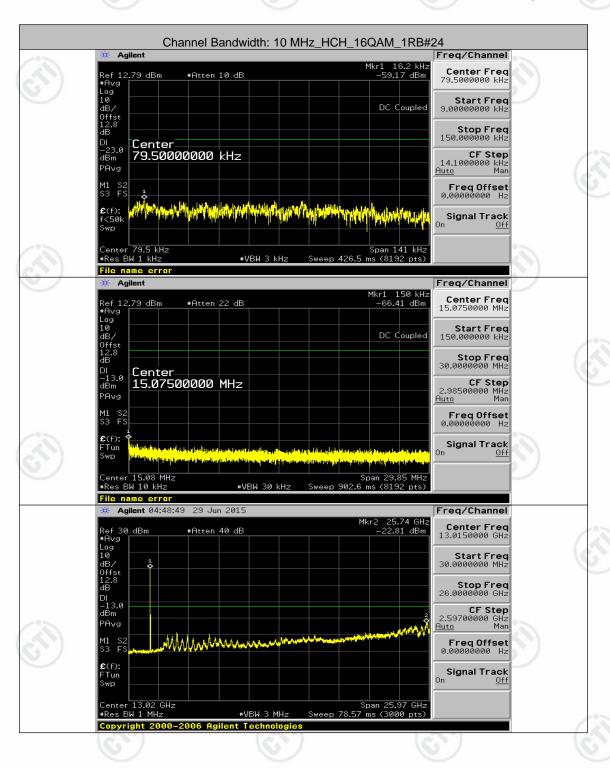




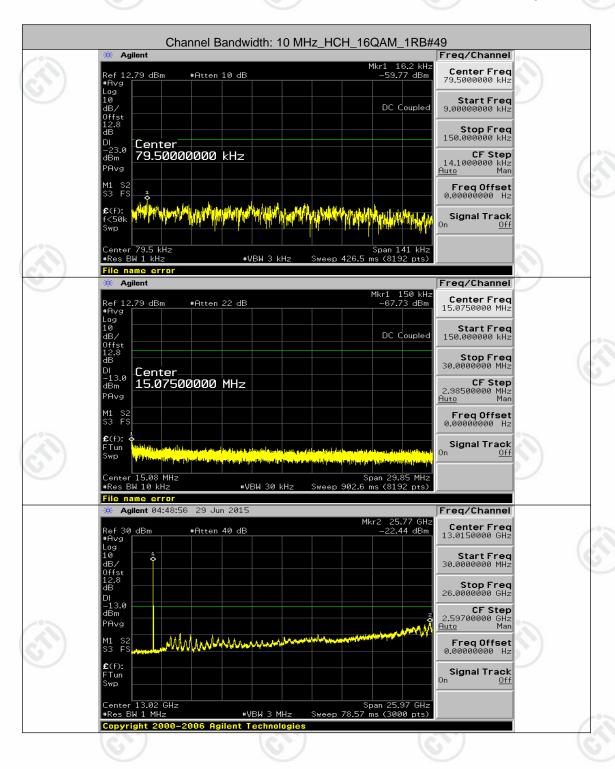


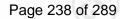




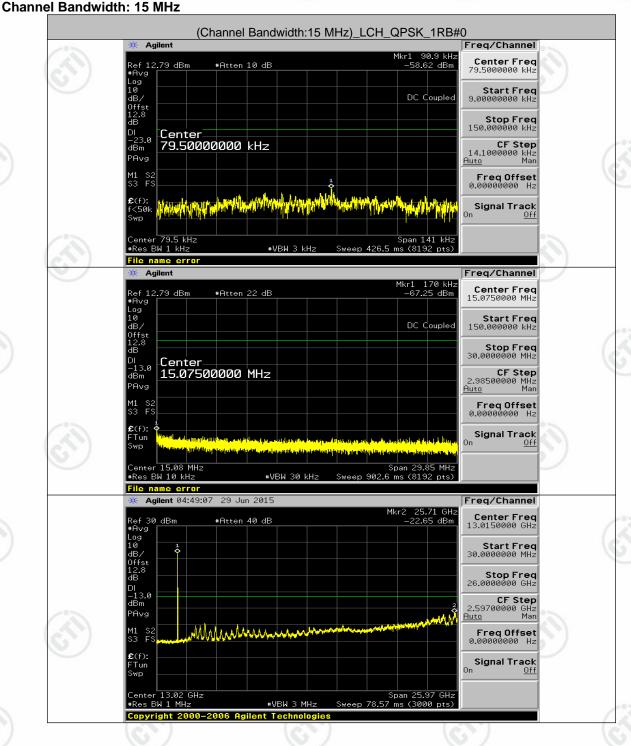




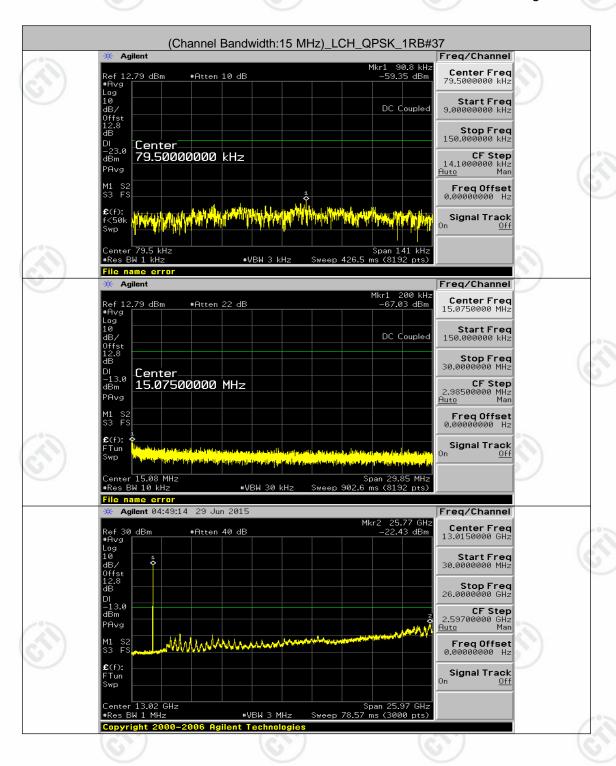






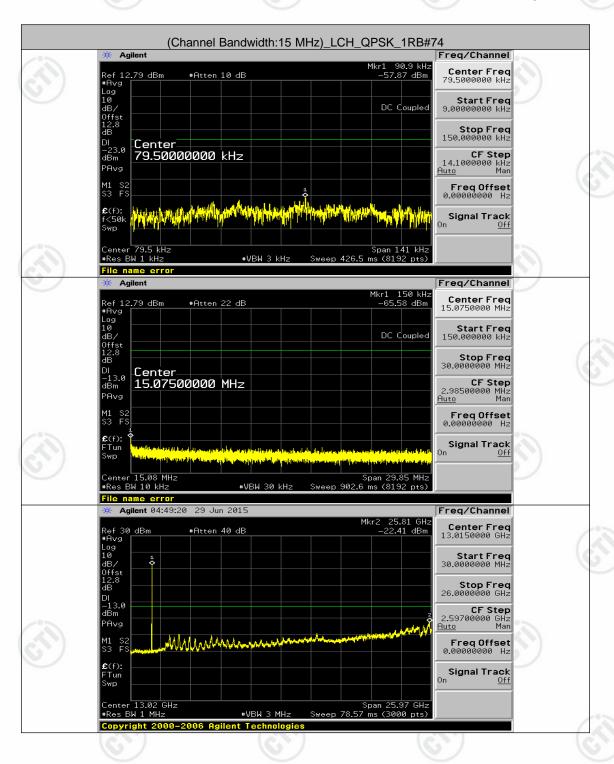






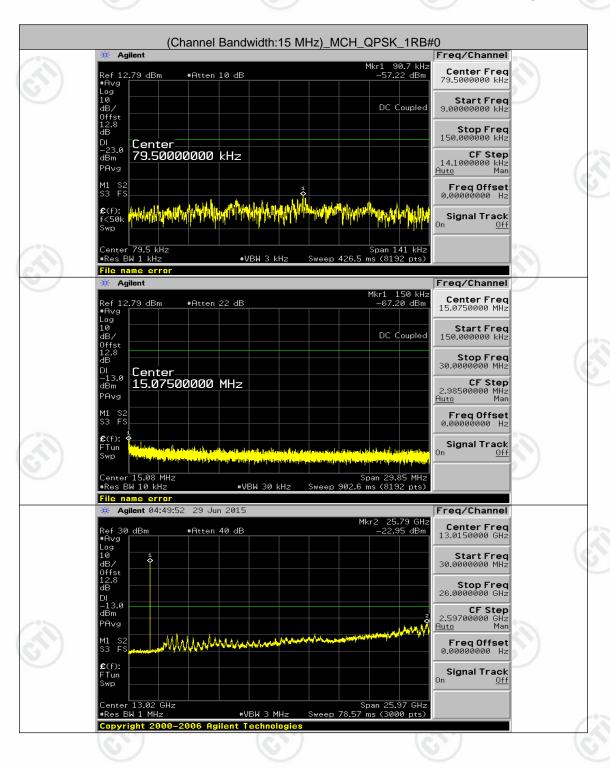




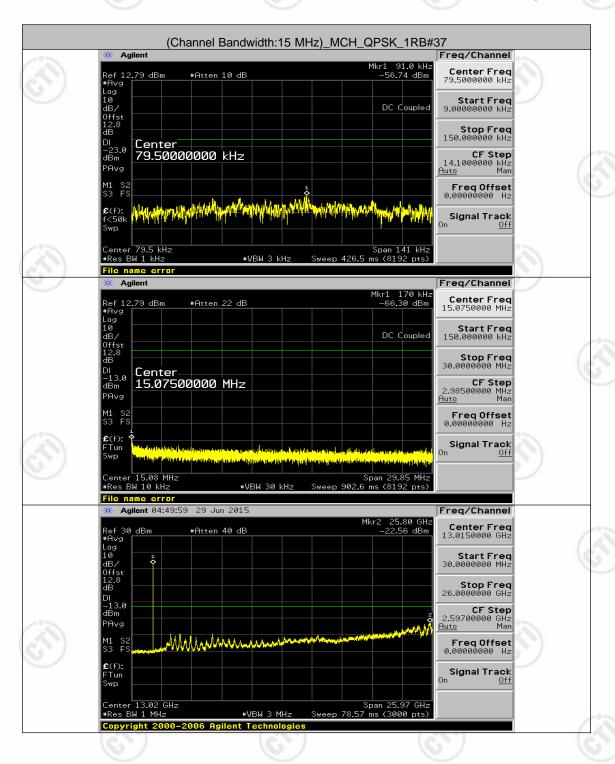






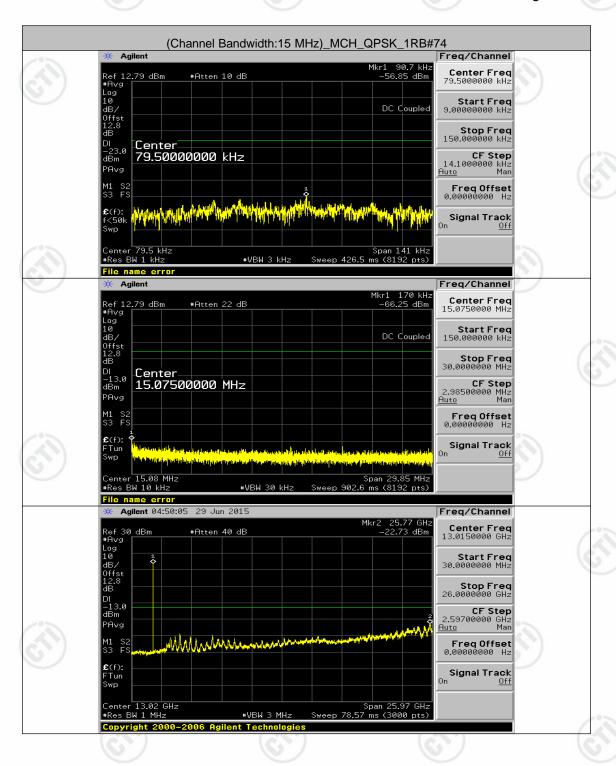






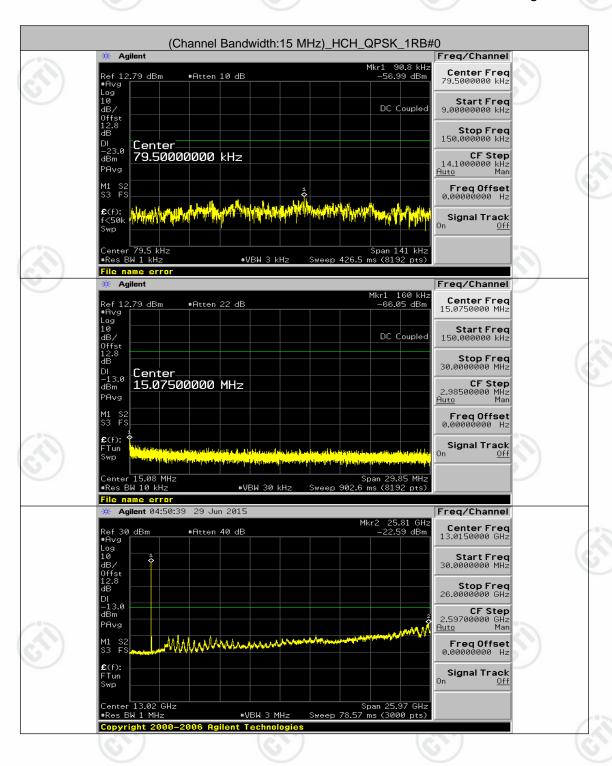




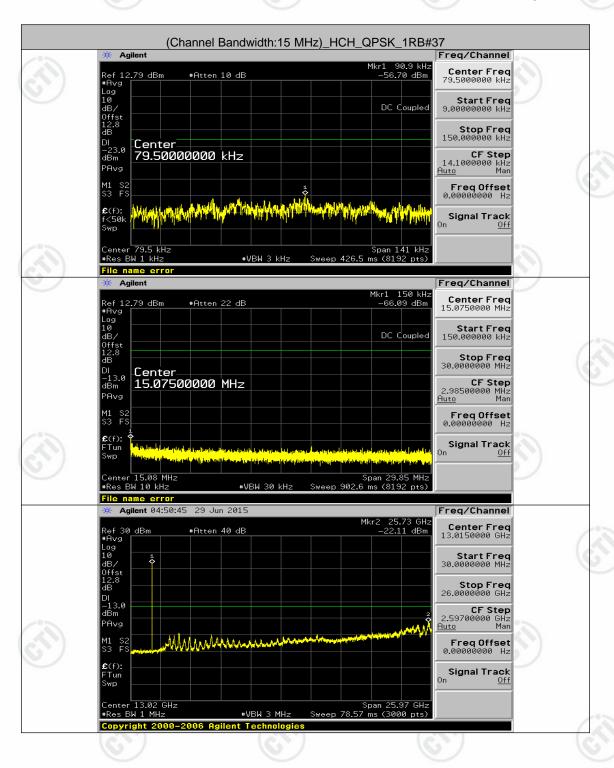




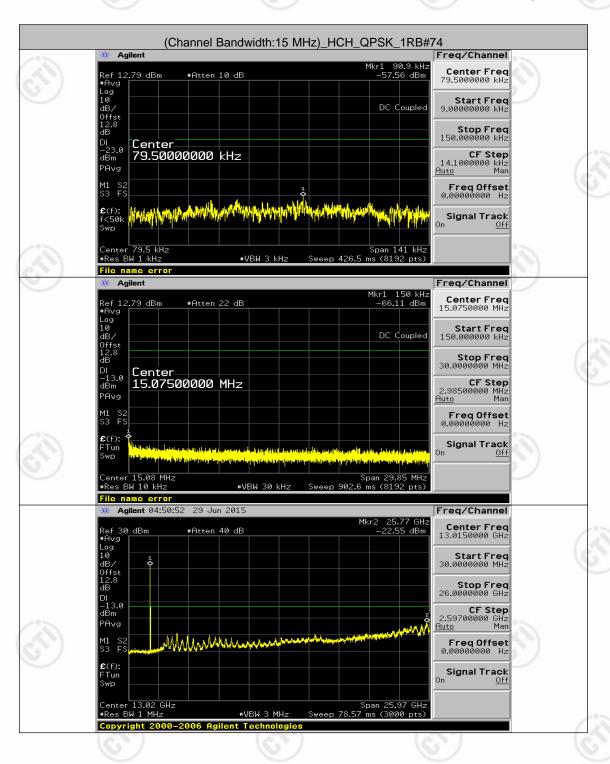




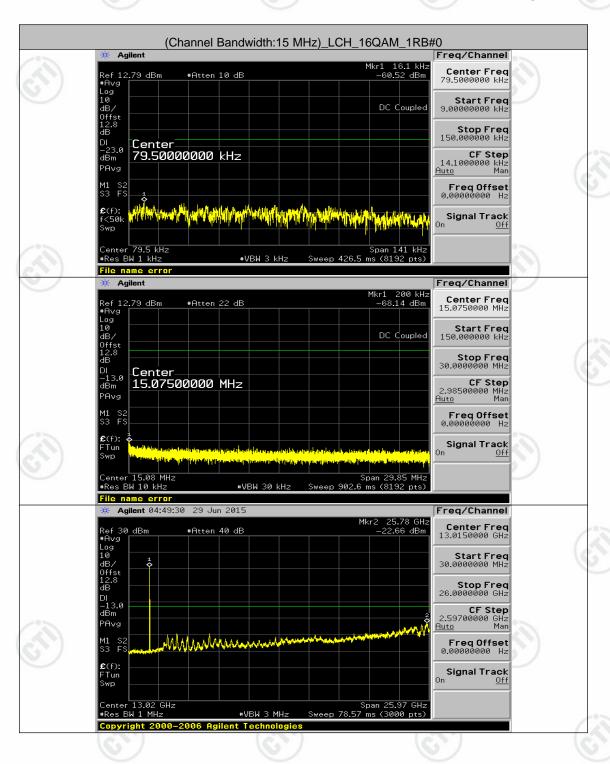




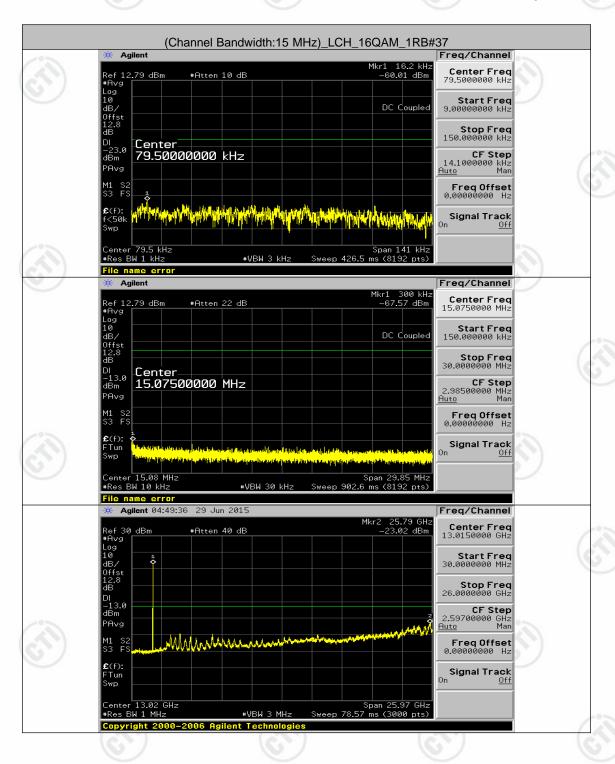






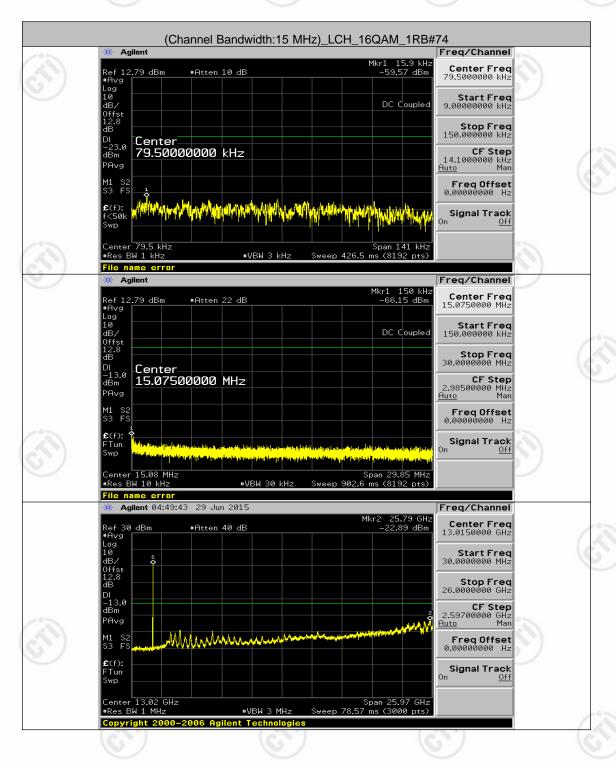






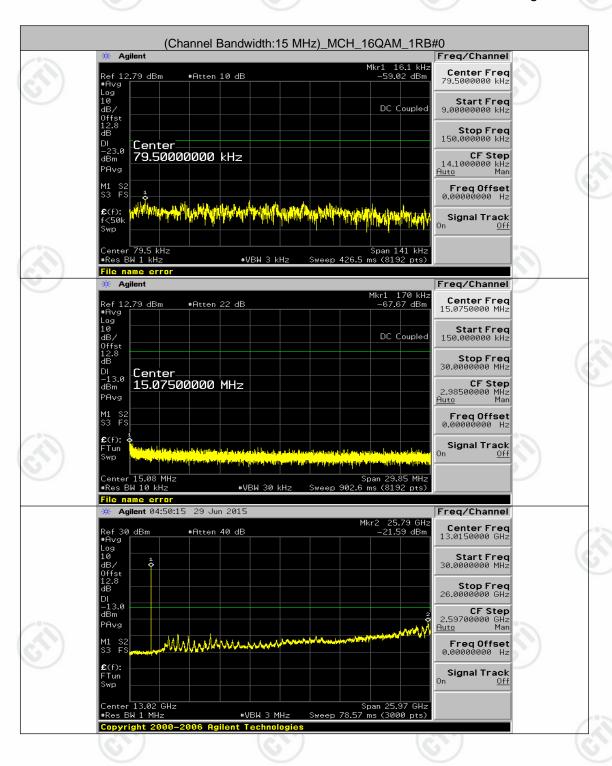




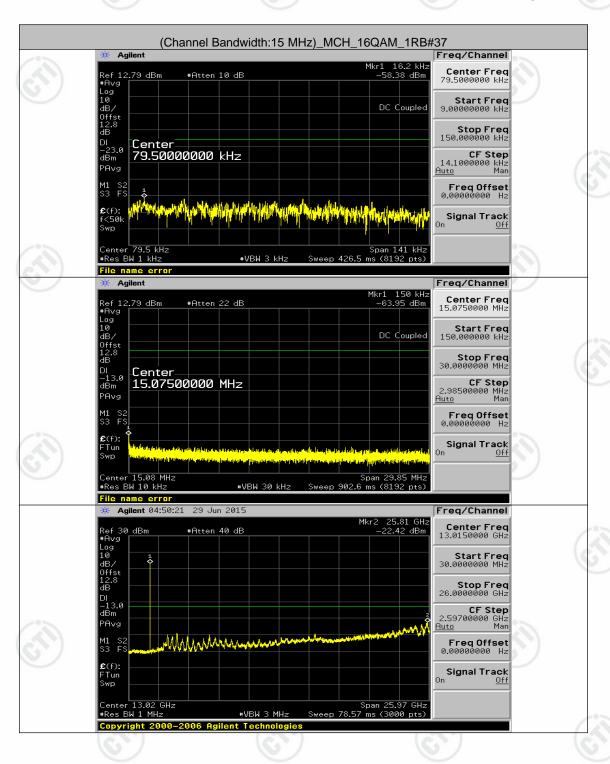




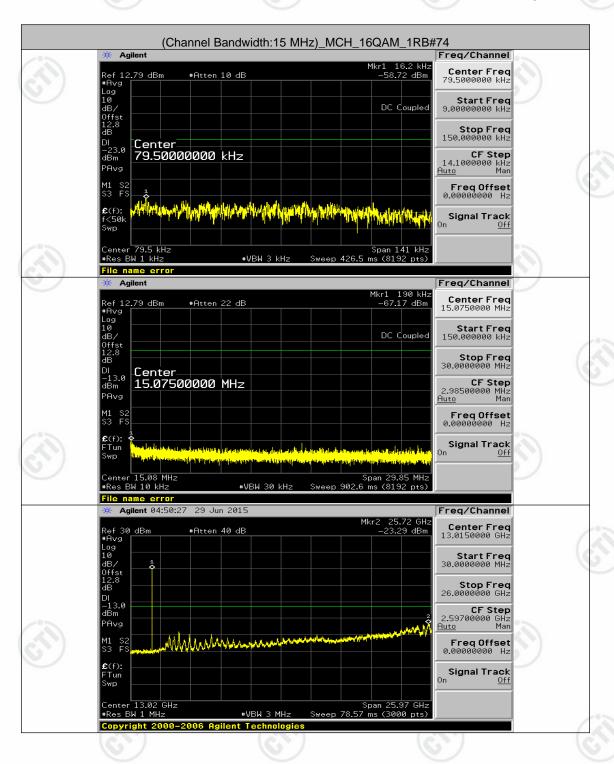




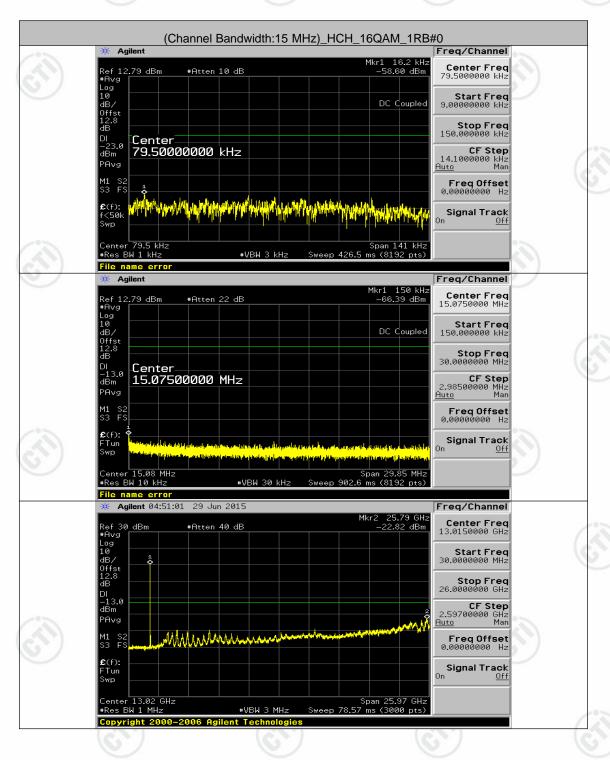






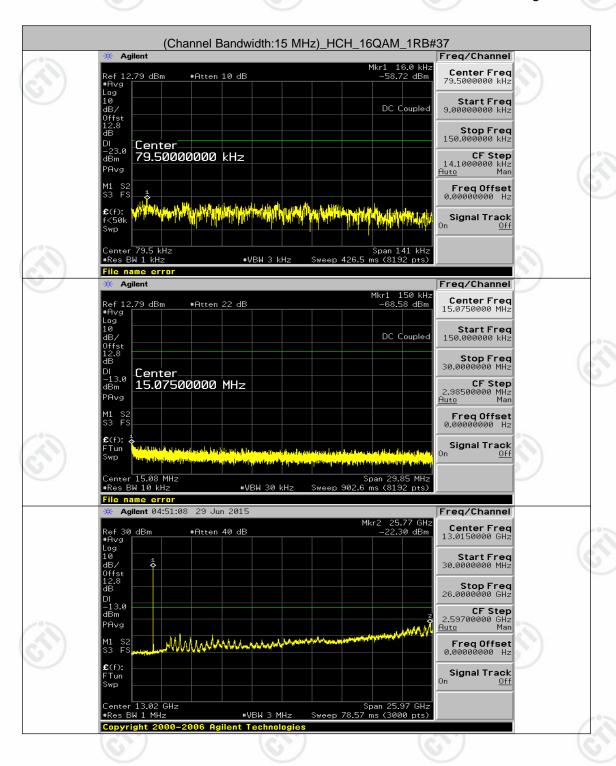






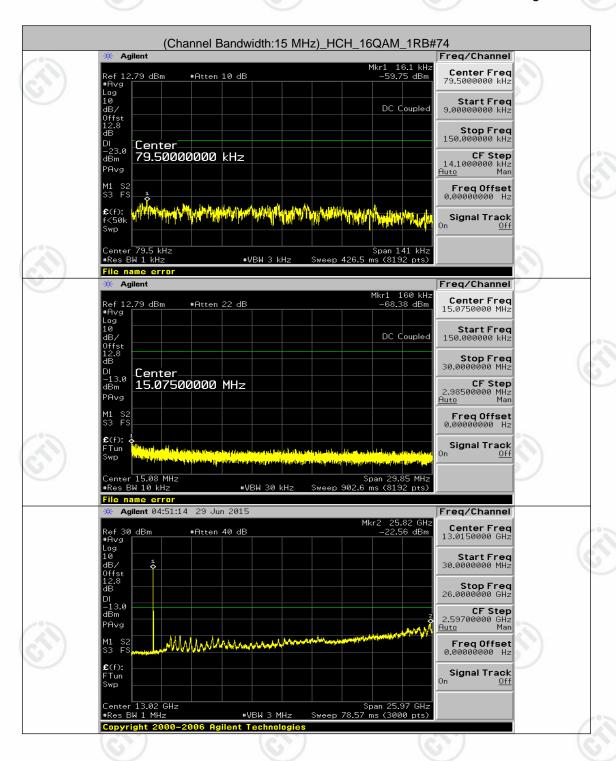




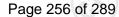




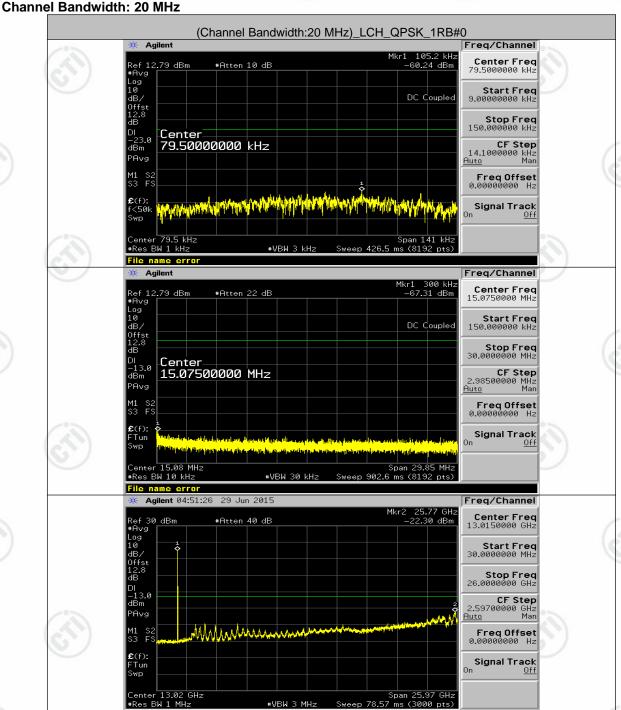








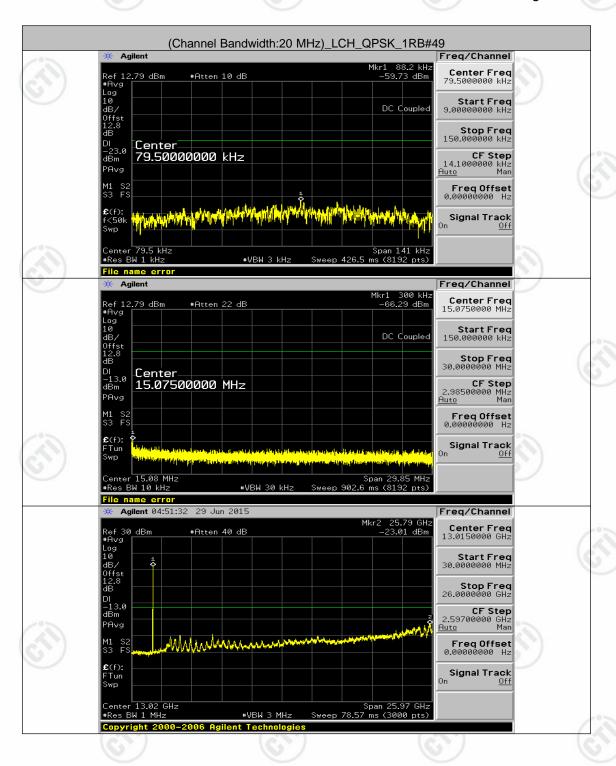






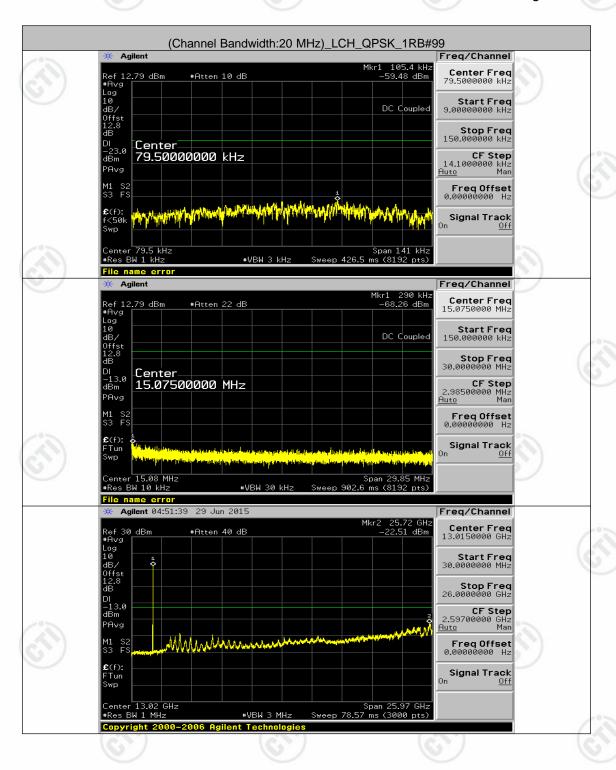
Copyright 2000-2006 Agilent Technologies



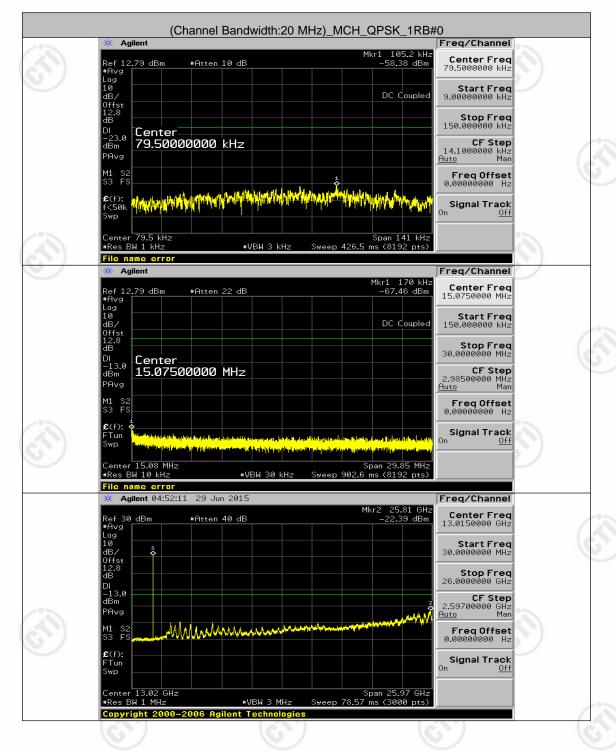






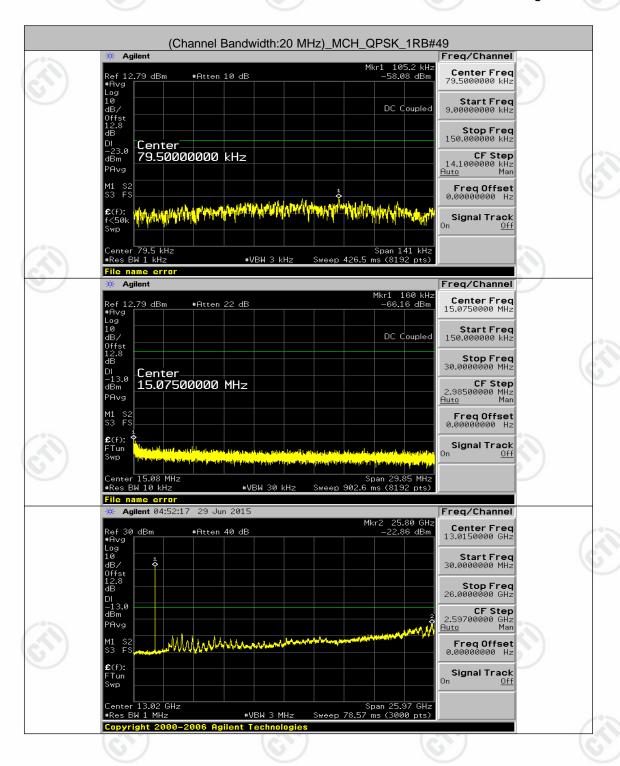




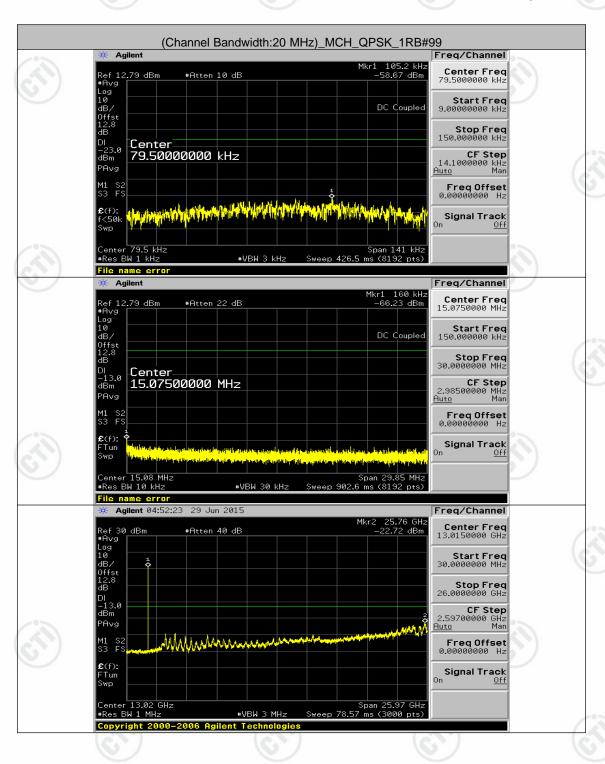




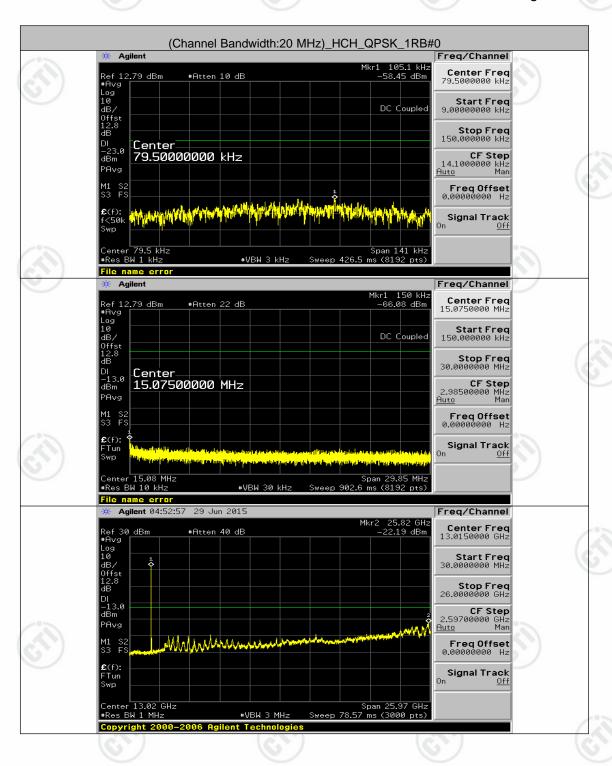




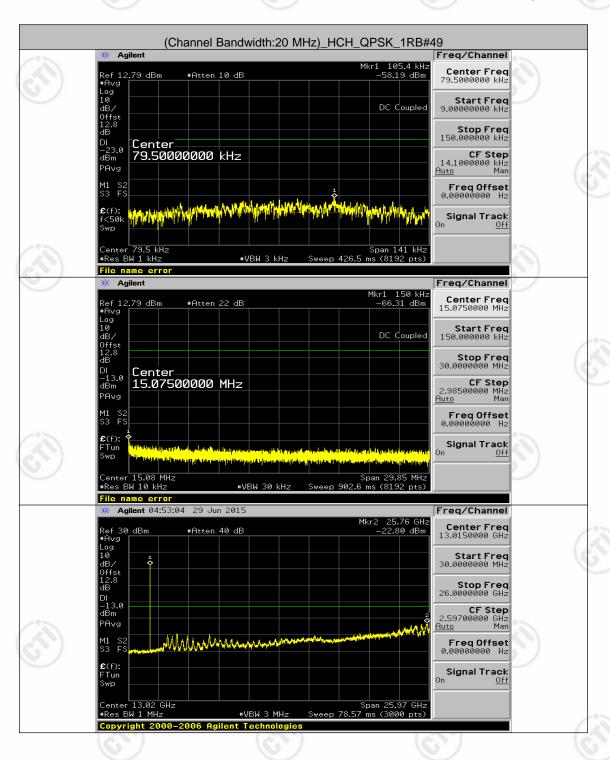






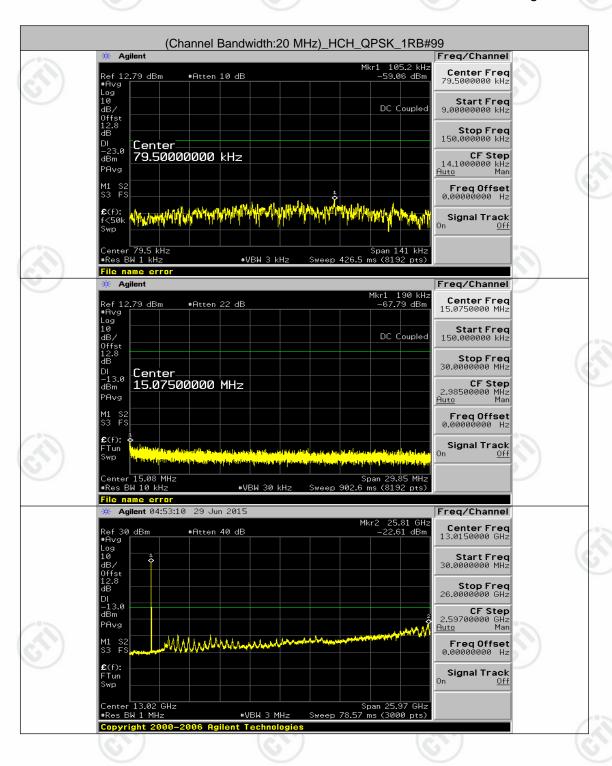




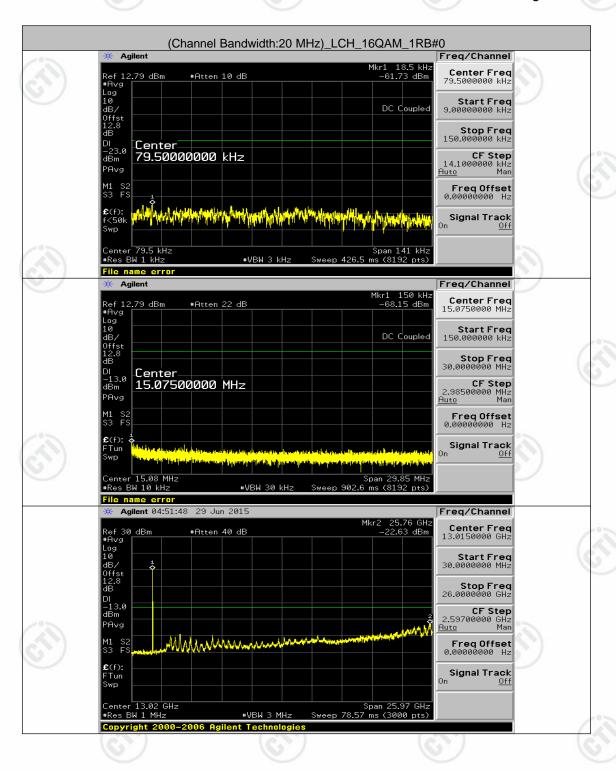




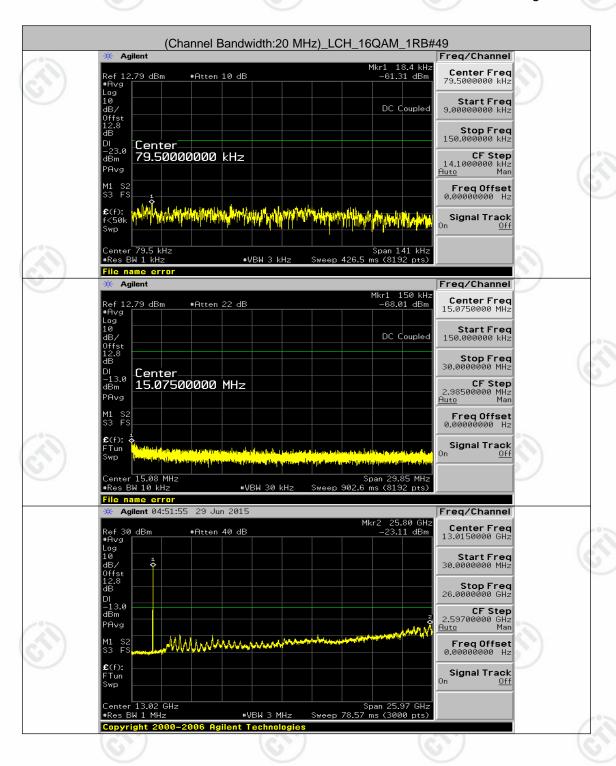






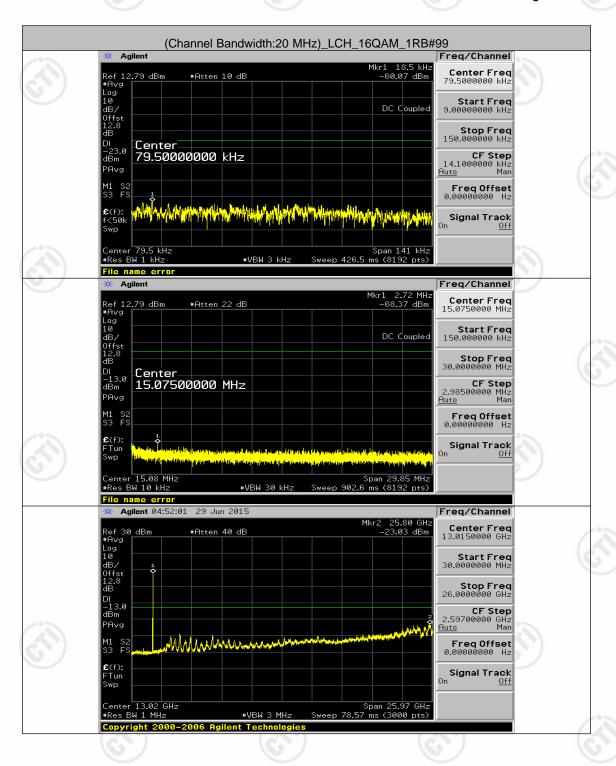






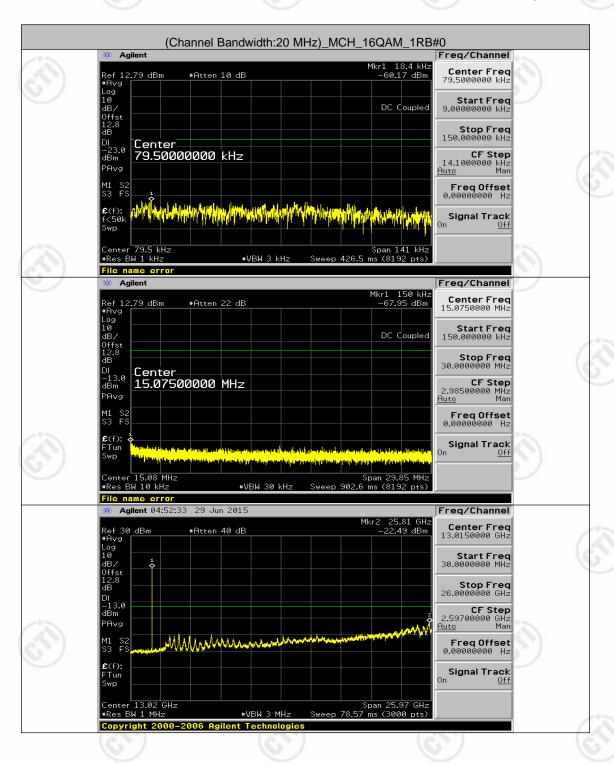






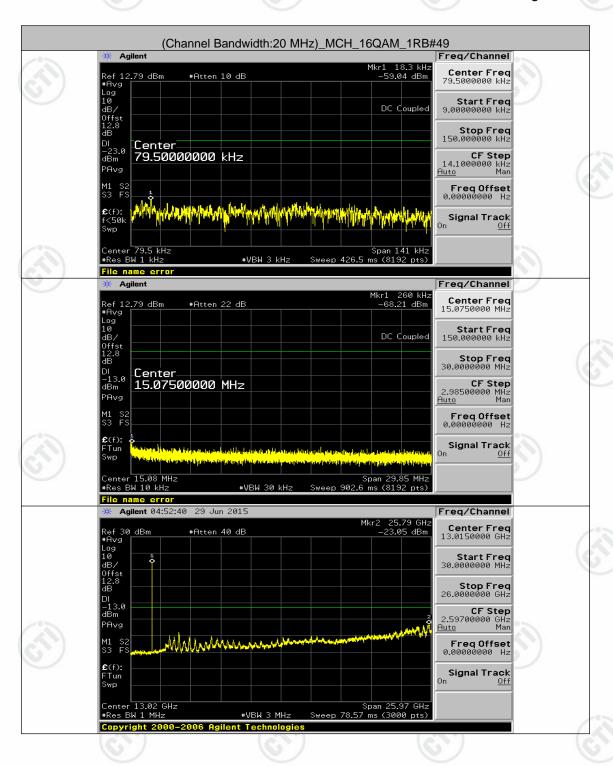




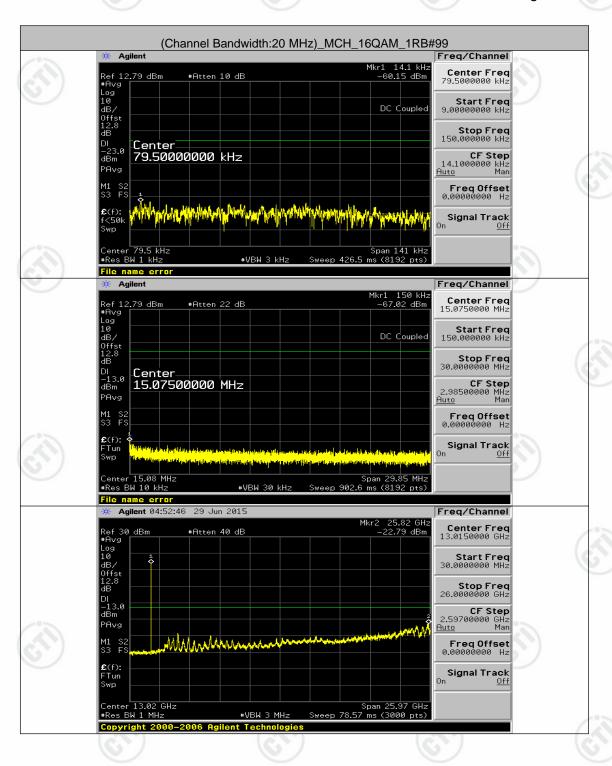




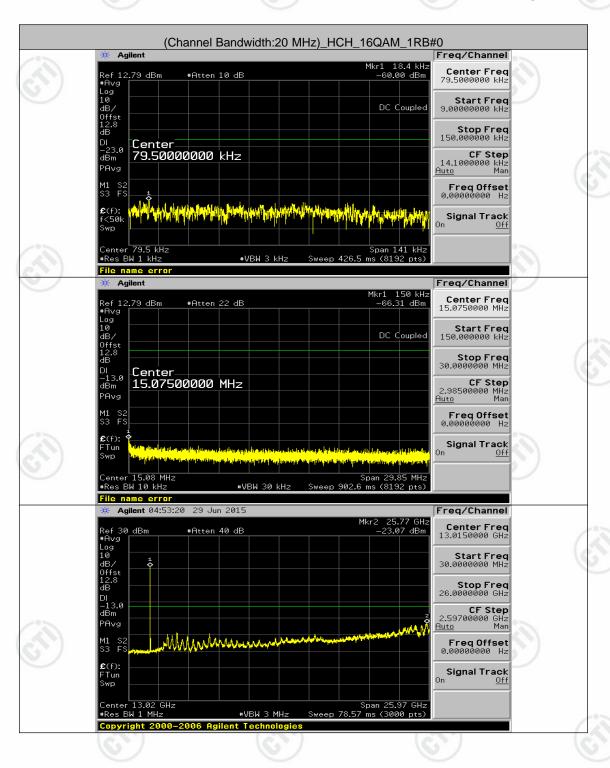




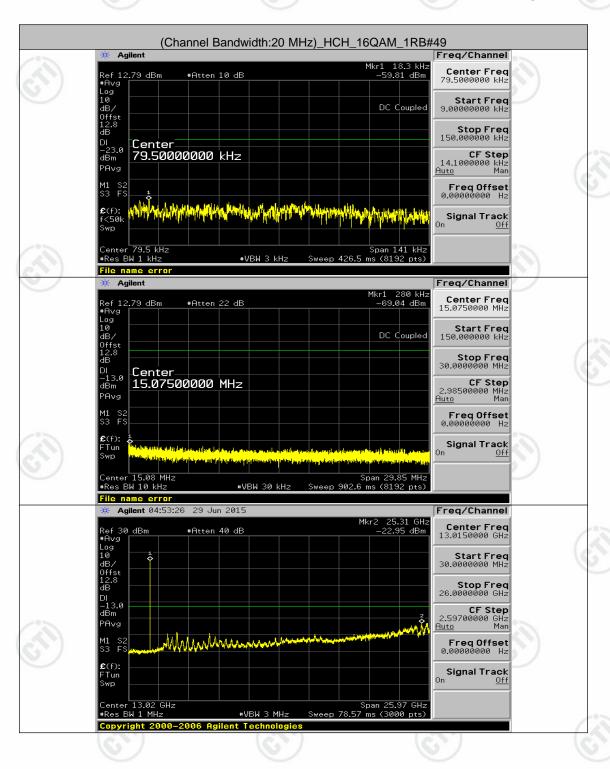




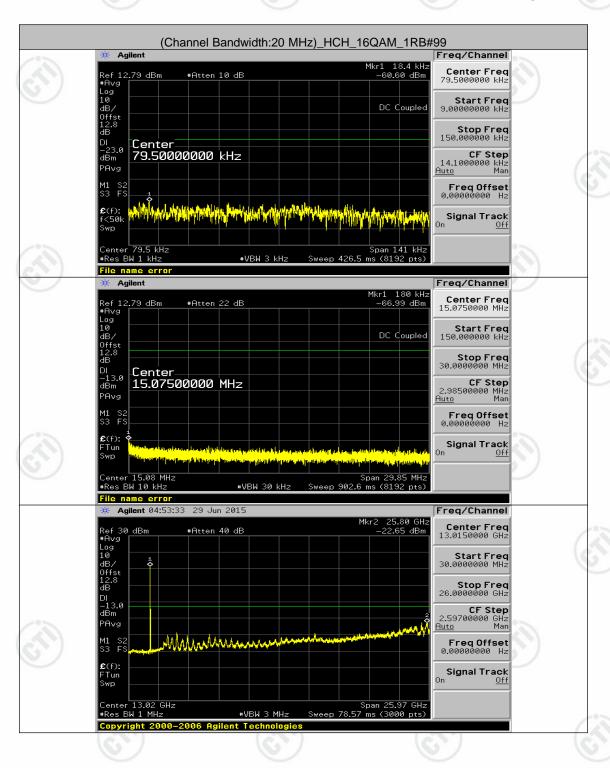
















Appendix F: Frequency Stability

Test Result

Bandwidt	h: 1.4 MH	z 🔼	9)	(47)		
				width: 1.4 MHz		
			Volt	age		
Modulation	Channel	Voltage [Vdc]	Temperature (°ℂ)	Deviation (Hz)	Deviation (ppm)	Verdict
	(41)	VL	TN	-7.02	-0.003795	PASS
	LCH	VN	TN	9.50	0.005132	PASS
		VH	TN	-9.00	-0.004862	PASS
		VL	TN	-11.32	-0.006019	PASS
QPSK	MCH	VN	TN	3.48	0.001849	PASS
		VH	TN	3.42	0.001819	PASS
		VL	TN	-12.77	-0.006691	PASS
	HCH	VN	TN	2.53	0.001326	PASS
		VH	TN	-7.57	-0.003963	PASS
	-07	VL	TN	-7.81	-0.004220	PASS
	LCH	VN	TN	3.06	0.001654	PASS
	(0,)	VH	TN	0.59	0.000317	PASS
		VL	TN	-19.60	-0.010424	PASS
16QAM	MCH	VN	TN	-1.92	-0.001020	PASS
		VH	TN	-13.49	-0.007175	PASS
	НСН	VL	TN	-4.76	-0.002495	PASS
		VN	TN	-15.31	-0.008017	PASS
		VH	TN	-15.46	-0.008099	PASS
			Tempe	erature		
Modulation	Channe I	Voltage [Vdc]	Temperature $(^{\circ}\!$	Deviation (Hz)	Deviation (ppm)	Verdict
	(6)	VN	-30	-12.47	-0.006740	PASS
		VN	-20	-12.43	-0.006717	PASS
		VN	-10	-13.30	-0.007189	PASS
		VN	0	11.80	0.006377	PASS
	LCH	VN	10	7.81	0.004220	PASS
		VN	20	-0.67	-0.000363	PASS
		VN	30	3.85	0.002079	PASS
		VN	40	7.08	0.003826	PASS
		VN	50	4.75	0.002566	PASS
	/°N	VN	-30	-2.89	-0.001537	PASS
QPSK	(2)	VN	-20	-2.03	-0.001080	PASS
U F3N		VN	-10	-3.69	-0.001963	PASS
		VN	0	-3.40	-0.001811	PASS
	MCH	VN	10	-8.35	-0.004444	PASS
		VN	20	5.71	0.003036	PASS
		VN	30	-0.84	-0.000449	PASS
		VN	40	-12.89	-0.006856	PASS
	<u></u>	VN	50	-17.38	-0.009245	PASS
		VN	-30	7.34	0.003844	PASS
	HCH	VN	-20	-6.61	-0.003461	PASS
	поп	VN	-10	-6.22	-0.003259	PASS
	(0)	VN	0	-14.43	-0.007560	PASS



Report No. : EED32l00216504 Page 275 of 289

NO.: EED	321002165	004				Page 275 of
		VN	10	-2.20	-0.001154	PASS
		VN	20	5.18	0.002712	PASS
Decree		VN	30	-10.81	-0.005664	PASS
	[VN	40	-4.82	-0.002525	PASS
(1)		VN	50	6.18	0.003237	PASS
		VN	-30	-6.75	-0.003648	PASS
	1	VN	-20	-5.45	-0.002945	PASS
	1	VN	-10	-10.79	-0.005828	PASS
	(3)	VN	0	-0.64	-0.000348	PASS
	LCH	VN	10	7.61	0.004112	PASS
		VN	20	8.44	0.004560	PASS
		VN	30	10.41	0.005627	PASS
	1	VN	40	-14.65	-0.007915	PASS
		VN	50	-12.57	-0.006794	PASS
		VN	-30	5.51	0.002930	PASS
	1	VN	-20	-16.69	-0.008880	PASS
	1	VN	-10	4.46	0.002374	PASS
	1	VN	0	5.21	0.002770	PASS
16QAM	мсн	VN	10	3.98	0.002115	PASS
		VN	20	0.00	0.000000	PASS
		VN	30	4.79	0.002549	PASS
		VN	40	2.66	0.001415	PASS
	1	VN	50	5.51	0.002930	PASS
		VN	-30	-1.13	-0.000592	PASS
	1	VN	-20	4.56	0.002390	PASS
	1	VN	-10	0.09	0.000045	PASS
	1	VN	0	-6.78	-0.003551	PASS
	нсн	VN	10	0.86	0.000450	PASS
	-0	VN	20	-0.10	-0.000052	PASS
		VN	30	-1.19	-0.000622	PASS
	(6,)	VN	40	-11.27	-0.005904	PASS
		VN	50	-9.33	-0.004885	PASS

Channel Bandwidth: 3 MHz

			Channel Band	width: 3 MHz+					
Voltage									
Modulation	Channel	Voltage [Vdc]	Temperature $(^{\circ}\!$	Deviation (Hz)	Deviation (ppm)	Verdict			
	100	VL	TN	-8.91	-0.004813	PASS			
	LCH	VN	TN	4.88	0.002635	PASS			
		VH	TN	0.56	0.000301	PASS			
		VL	TN	-14.15	-0.007525	PASS			
QPSK	MCH	VN	TN	-15.13	-0.008050	PASS			
		VH	TN	-15.28	-0.008127	PASS			
		VL	TN	-13.28	-0.006956	PASS			
	HCH	VN	TN	-3.39	-0.001776	PASS			
		VH	TN	-20.74	-0.010868	PASS			
		VL	TN	-18.55	-0.010021	PASS			
16QAM	LCH	VN	TN	-18.98	-0.010253	PASS			
IOQAM		VH	TN	3.52	0.001901	PASS			
	MCH	VL	TN	-13.55	-0.007206	PASS			



Report No. : EED32l00216504 Page 276 of 289

10 EED	32100216	504	(0,		(6)	Page 276	
		VN	TN	-9.70	-0.005159	PASS	
		VH	TN	-18.32	-0.009747	PASS	
		VL	TN	1.39	0.000727	PASS	
	HCH	HCH	VN	TN	-16.79	-0.008800	PASS
		VH	TN	0.70	0.000367	PASS	
			Tempe	erature			
Modulation	Channel	Voltage [Vdc]	Temperature $(^{\circ}\!$	Deviation (Hz)	Deviation (ppm)	Verdict	
	1:0	VN	-30	-1.80	-0.000974	PASS	
	(C_{i}, C_{i})	VN	-20	-0.23	-0.000124	PASS	
		VN	-10	-8.05	-0.004350	PASS	
		VN	0	-12.06	-0.006513	PASS	
	LCH	VN	10	-14.89	-0.008043	PASS	
		VN	20	2.47	0.001337	PASS	
		VN	30	1.90	0.001028	PASS	
		VN	40	-1.66	-0.000896	PASS	
		VN	50	3.99	0.002156	PASS	
		VN	-30	-6.38	-0.003394	PASS	
	/°>	VN	-20	-0.23	-0.000122	PASS	
		VN	-10	-2.22	-0.001179	PASS	
		VN	0	-7.24	-0.003850	PASS	
QPSK	MCH	VN	10	-15.94	-0.008477	PASS	
		VN	20	-1.42	-0.000753	PASS	
		VN	30	-17.41	-0.009260	PASS	
		VN	40	-6.78	-0.003607	PASS	
		VN	50	1.62	0.000860	PASS	
		VN	-30	-11.84	-0.006206	PASS	
		VN	-20	-15.82	-0.008290	PASS	
	0	VN	-10	-10.26	-0.005374	PASS	
	(41)	VN	0	0.30	0.000157	PASS	
	HCH	VN	10	5.34	0.002796	PASS	
		VN	20	-6.58	-0.003448	PASS	
		VN	30	-19.00	-0.009954	PASS	
		VN	40	-0.87	-0.000457	PASS	
		VN	50	-18.18	-0.009527	PASS	
37)		VN	-30	-18.61	-0.010052	PASS	
		VN	-20	-1.82	-0.000981	PASS	
		VN	-10	5.45	0.002944	PASS	
		VN	0	3.93	0.002125	PASS	
	LCH	VN	10	4.48	0.002418	PASS	
	(0)	VN	20	-17.84	-0.009635	PASS	
		VN	30	-19.07	-0.010299	PASS	
		VN	40	-15.51	-0.008375	PASS	
16QAM		VN	50	-7.70	-0.004157	PASS	
		VN	-30	-14.89	-0.007921	PASS	
		VN	-20	-16.45	-0.008750	PASS	
		VN	-10	-16.64	-0.008849	PASS	
	NACL I	VN	0	2.30	0.001225	PASS	
	MCH	VN	10	-3.78	-0.002009	PASS	
	(:0)	VN	20	0.46	0.000243	PASS	
	(5)	VN	30	1.46	0.000776	PASS	
		VN	40	-4.63	-0.002465	PASS	



Report No.: EED32l00216504 Page 277 of 289

		VN	50	-20.28	-0.010790	PASS
		VN	-30	1.44	0.000757	PASS
(1-2-2-2		VN	-20	-4.39	-0.002301	PASS
		VN	-10	-9.86	-0.005164	PASS
(3)		VN	0	-19.01	-0.009961	PASS
	HCH	VN	10	3.62	0.001896	PASS
		VN	20	-8.83	-0.004625	PASS
		VN	30	-10.63	-0.005569	PASS
	(:)	VN	40	-8.08	-0.004235	PASS
	(63)	VN	50	-16.02	-0.008395	PASS

Channel Bandwidth: 5 MHz

			Channel Band	dwidth: 5 MHz			
40			Volt	tage			
Modulation	Channel	Voltage [Vdc]	Temperature $(^{\circ}\mathbb{C})$	Deviation (Hz)	Deviation (ppm)	Verdict	
		VL	TN	-11.74	-0.006340	PASS	
	LCH	VN	TN	1.96	0.001058	PASS	
		VH	TN	8.74	0.004718	PASS	
	(0.)	VL	TN	-15.09	-0.008028	PASS	
QPSK	MCH	VN	TN	-17.35	-0.009230	PASS	
		VH	TN	-10.10	-0.005372	PASS	
		VL	TN	-9.28	-0.004867	PASS	
	HCH	VN	TN	7.65	0.004012	PASS	
		VH	TN	-10.63	-0.005572	PASS	
		VL	TN	9.43	0.005089	PASS	
	LCH	VN	TN	-14.20	-0.007668	PASS	
	200	VH	TN	6.68	0.003606	PASS	
		VL	TN	5.72	0.003044	PASS	
16QAM	MCH	VN	TN	5.34	0.002838	PASS	
		VH	TN	-9.47	-0.005037	PASS	
		VL	TN	-13.68	-0.007169	PASS	
	HCH	VN	TN	5.99	0.003142	PASS	
		VH	TN	5.85	0.003067	PASS	
	•	(6)	Tempe	erature		(6,2)	
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict	
		VN	-30	-2.89	-0.001560	PASS	
	1:0	VN	-20	-12.20	-0.006587	PASS	
	$(c^{(n)})$	VN	-10	7.55	0.004077	PASS	
		VN	0	9.91	0.005351	PASS	
	LCH	VN	10	-0.11	-0.000062	PASS	
		VN	20	-1.16	-0.000625	PASS	
ODOK		VN	30	-4.82	-0.002602	PASS	
QPSK		VN	40	-8.07	-0.004355	PASS	
		VN	50	-14.08	-0.007599	PASS	
		VN	-30	0.50	0.000266	PASS	
		VN	-20	2.45	0.001301	PASS	
	MCH	VN	-10	-14.79	-0.007868	PASS	
		VN	0	-11.04	-0.005874	PASS	
	(0)	VN	10	0.16	0.000084	PASS	



Report No. : EED32l00216504 Page 278 of 289

110 EED.	321002103)U 4				Page 276 0
		VN	20	6.17	0.003280	PASS
	[VN	30	-5.85	-0.003112	PASS
(1		VN	40	-17.57	-0.009344	PASS
		VN	50	-9.74	-0.005182	PASS
		VN	-30	1.33	0.000697	PASS
	[VN	-20	-6.69	-0.003510	PASS
	[VN	-10	5.16	0.002707	PASS
	[VN	0	-7.40	-0.003877	PASS
	нсн	VN	10	-5.88	-0.003082	PASS
		VN	20	-9.20	-0.004822	PASS
		VN	30	-11.62	-0.006090	PASS
		VN	40	5.92	0.003105	PASS
	[VN	50	-9.04	-0.004740	PASS
		VN	-30	8.74	0.004718	PASS
	[VN	-20	-12.25	-0.006610	PASS
	[VN	-10	4.49	0.002425	PASS
	[VN	0	10.94	0.005907	PASS
	LCH	VN	10	5.88	0.003174	PASS
	/07	VN	20	7.01	0.003784	PASS
		VN	30	5.56	0.003004	PASS
	(0)	VN	40	9.20	0.004965	PASS
		VN	50	8.44	0.004556	PASS
		VN	-30	-13.62	-0.007244	PASS
	1 [VN	-20	-6.05	-0.003219	PASS
	1 [VN	-10	-16.75	-0.008910	PASS
		VN	0	-12.33	-0.006559	PASS
16QAM	мсн	VN	10	-11.60	-0.006171	PASS
		VN	20	-17.57	-0.009344	PASS
	-07	VN	30	-19.18	-0.010204	PASS
		VN	40	5.71	0.003036	PASS
	(0,)	VN	50	-16.38	-0.008712	PASS
		VN	-30	7.85	0.004117	PASS
		VN	-20	0.57	0.000300	PASS
		VN	-10	-15.26	-0.008002	PASS
		VN	0	-14.75	-0.007732	PASS
	нсн	VN	10	5.41	0.002835	PASS
		VN	20	-1.23	-0.000645	PASS
		VN	30	-0.76	-0.000397	PASS
		VN	40	-11.86	-0.006217	PASS
	(3)	VN	50	2.83	0.001485	PASS







Channel Bandwidth: 10 MHz

			Channel Band	width: 10 MHz		
-0%		-05	Volt	age		_0_
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
		VL	TN	-12.85	-0.006925	PASS
	LCH	VN	TN	-5.22	-0.002815	PASS
		VH	TN	-7.42	-0.004002	PASS
	100	VL	TN	-12.65	-0.006726	PASS
QPSK	MCH	VN	TN	-13.30	-0.007076	PASS
		VH	TN	-13.39	-0.007122	PASS
		VL	TN	-7.20	-0.003777	PASS
	нсн	VN	TN	-6.95	-0.003649	PASS
		VH	TN	-12.45	-0.006533	PASS
37)		VL	TN	-8.40	-0.004527	PASS
	LCH	VN	TN	-4.02	-0.002167	PASS
		VH	TN	-6.71	-0.003617	PASS
		VL	TN	-16.16	-0.008598	PASS
16QAM	MCH	VN	TN	-12.95	-0.006886	PASS
	(6.2)	VH	TN	3.88	0.002062	PASS
		VL	TN	-7.97	-0.004183	PASS
	нсн	VN	TN	8.68	0.004558	PASS
		VH	TN	2.68	0.001404	PASS
11:		(3)	Tempe	erature	•	(°)
Modulation	Channel	Voltage [Vdc]	Temperature $(^{\circ}\!$	Deviation (Hz)	Deviation (ppm)	Verdict
		VN	-30	-13.06	-0.007041	PASS
		VN	-20	5.58	0.003008	PASS
	100	VN	-10	-1.56	-0.000841	PASS
		VN	0	-8.20	-0.004419	PASS
	LCH	VN	10	-1.37	-0.000740	PASS
		VN	20	-15.59	-0.008406	PASS
		VN	30	7.12	0.003840	PASS
		VN	40	-3.12	-0.001681	PASS
		VN	50	3.43	0.001851	PASS
		VN	-30	-6.97	-0.003706	PASS
		VN	-20	0.17	0.000091	PASS
		VN	-10	-9.76	-0.005189	PASS
16QAM	_°>	VN	0	2.33	0.001240	PASS
IOQAW	MCH	VN	10	-4.42	-0.002351	PASS
	(0.)	VN	20	-12.89	-0.006856	PASS
		VN	30	-18.15	-0.009656	PASS
		VN	40	4.38	0.002328	PASS
		VN	50	-2.82	-0.001499	PASS
		VN	-30	5.97	0.003131	PASS
		VN	-20	7.51	0.003942	PASS
		VN	-10	-2.32	-0.001216	PASS
	ЦСП	VN	0	-12.32	-0.006465	PASS
	HCH	VN	10	5.41	0.002838	PASS
	(18)	VN	20	9.96	0.005226	PASS
	(0)	VN	30	0.01	0.000008	PASS
		VN	40	1.60	0.000841	PASS



Report No. : EED32l00216504 Page 280 of 289

NO EED	321002100)U 4				raye 200 0
		VN	50	-11.77	-0.006180	PASS
		VN	-30	-14.08	-0.007588	PASS
		VN	-20	-10.63	-0.005730	PASS
		VN	-10	-11.42	-0.006154	PASS
		VN	0	-4.42	-0.002383	PASS
	LCH	VN	10	-5.54	-0.002984	PASS
		VN	20	-5.82	-0.003139	PASS
		VN	30	2.17	0.001172	PASS
	1:0	VN	40	-1.73	-0.000933	PASS
		VN	50	3.75	0.002020	PASS
		VN	-30	-5.98	-0.003181	PASS
		VN	-20	-4.11	-0.002184	PASS
		VN	-10	-12.97	-0.006901	PASS
		VN	0	-2.47	-0.001316	PASS
QPSK	мсн	VN	10	5.62	0.002990	PASS
		VN	20	-6.77	-0.003599	PASS
		VN	30	4.38	0.002328	PASS
		VN	40	-16.79	-0.008933	PASS
	/°>	VN	50	-12.26	-0.006521	PASS
	(30)	VN	-30	6.21	0.003259	PASS
		VN	-20	-7.14	-0.003747	PASS
		VN	-10	4.25	0.002230	PASS
		VN	0	-1.40	-0.000736	PASS
	нсн	VN	10	5.81	0.003049	PASS
		VN	20	0.09	0.000045	PASS
		VN	30	-10.94	-0.005745	PASS
		VN	40	1.70	0.000894	PASS
		VN	50	5.74	0.003011	PASS

Channel Bandwidth: 15 MHz

i banawiat	11. 13 IVIT12	<u> </u>	100 /		100	
			Channel Band	width: 15 MHz		
			Volt	age		
Modulation	Channel	Voltage [Vdc]	Temperature $(^{\circ}\mathbb{C})$	Deviation (Hz)	Deviation (ppm)	Verdict
(,)		VL	TN	-17.21	-0.009265	PASS
	LCH	VN	TN	0.99	0.000531	PASS
		VH	TN	2.86	0.001540	PASS
		VL	TN	0.20	0.000107	PASS
QPSK	MCH	VN	TN	1.37	0.000730	PASS
	$(c^{(n)})$	VH	TN	-11.54	-0.006141	PASS
	НСН	VL	TN	-13.56	-0.007128	PASS
		VN	TN	-15.31	-0.008045	PASS
		VH	TN	2.98	0.001564	PASS
-:5		VL	TN	-12.93	-0.006962	PASS
	LCH	VN	TN	-8.85	-0.004767	PASS
		VH	TN	-10.79	-0.005807	PASS
16O A M		VL	TN	-11.77	-0.006262	PASS
16QAM	MCH	VN	TN	-3.42	-0.001819	PASS
	100	VH	TN	1.06	0.000563	PASS
	нсн	VL	TN	1.24	0.000654	PASS
	нсн	VN	TN	-12.26	-0.006444	PASS



Report No. : EED32I00216504 Page 281 of 289

No. : EED3	32100216	504			Page 281	
		VH	TN	1.96	0.001030	PASS
			Tempe	erature	•	•
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
		VN	-30	-7.28	-0.003920	PASS
		VN	-20	-13.69	-0.007370	PASS
		VN	-10	-8.96	-0.004821	PASS
		VN	0	-13.80	-0.007432	PASS
	LCH	VN	10	-7.65	-0.004120	PASS
		VN	20	-15.74	-0.008471	PASS
		VN	30	-11.52	-0.006200	PASS
		VN	40	4.71	0.002534	PASS
		VN	50	-0.09	-0.000046	PASS
		VN	-30	-9.53	-0.005068	PASS
		VN	-20	-14.42	-0.007670	PASS
		VN	-10	-14.75	-0.007845	PASS
		VN	0	0.84	0.000449	PASS
QPSK	MCH	VN	10	-4.63	-0.002465	PASS
	-07	VN	20	-4.38	-0.002328	PASS
		VN	30	-7.71	-0.004101	PASS
	6.	VN	40	-16.31	-0.008674	PASS
		VN	50	-8.07	-0.004292	PASS
		VN	-30	-17.35	-0.009121	PASS
		VN	-20	-11.66	-0.006128	PASS
		VN	-10	2.86	0.001504	PASS
		VN	0	-1.67	-0.000880	PASS
	нсн	VN	10	-0.04	-0.000023	PASS
		VN	20	-7.52	-0.003955	PASS
	- 0	VN	30	-2.02	-0.001060	PASS
	(2)	VN	40	-13.83	-0.007271	PASS
	(0)	VN	50	-16.55	-0.008700	PASS
		VN	-30	-6.01	-0.003235	PASS
		VN	-20	-10.81	-0.005822	PASS
		VN	-10	-14.05	-0.007563	PASS
		VN	0	-12.00	-0.006461	PASS
	LCH	VN	10	-15.08	-0.008117	PASS
		VN	20	6.44	0.003466	PASS
		VN	30	-12.63	-0.006800	PASS
		VN	40	2.10	0.001132	PASS
	1:0	VN	50	-0.44	-0.000239	PASS
	(65)	VN	-30	0.06	0.000030	PASS
16QAM		VN	-20	2.62	0.001392	PASS
		VN	-10	-12.59	-0.006696	PASS
		VN	0	-2.15	-0.001141	PASS
	MCH	VN	10	3.65	0.001141	PASS
	5	VN	20	-9.94	-0.005288	PASS
		VN	30	-14.76	-0.003288	PASS
		VN	40	-14.70	-0.007833	PASS
		VN	50	-5.18	-0.008241	PASS
	/0>	VN	-30	-5.65	-0.002734	PASS
	нсн	VN	-20	1.26	0.000662	PASS
	HOH	VN	-20 -10	-13.25	-0.006963	PASS



Report No. : EED32l00216504 Page 282 of 289

	VN	0	1.34	0.000707	PASS
	VN	10	-8.91	-0.004684	PASS
	VN	20	-13.26	-0.006970	PASS
	VN	30	-9.76	-0.005128	PASS
(2)	VN	40	-3.55	-0.001865	PASS
	VN	50	-9.37	-0.004925	PASS

Channel Bandwidth: 20 MHz

l Bandwidt	h: 20 MHz	<u> </u>	/°>		_°	
			Channel Band	width: 20 MHz		
	(0)		Volta	age		
Modulation	Channel	Voltage [Vdc]	Temperature (°ℂ)	Deviation (Hz)	Deviation (ppm)	Verdict
		VL	TN	5.42	0.002915	PASS
	LCH	VN	TN	-9.34	-0.005022	PASS
		VH	TN	-12.79	-0.006876	PASS
		VL	TN	-1.30	-0.000692	PASS
QPSK	MCH	VN	TN	-13.88	-0.007381	PASS
	-0	VH	TN	-5.92	-0.003150	PASS
	(40)	VL	TN	7.41	0.003900	PASS
	HCH	VN	TN	7.50	0.003945	PASS
		VH	TN	6.75	0.003554	PASS
		VL	TN	3.81	0.002046	PASS
	LCH	VN	TN	-5.76	-0.003099	PASS
		VH	TN	-6.94	-0.003730	PASS
		VL	TN	-4.48	-0.002382	PASS
16QAM	MCH	VN	TN	-1.47	-0.000784	PASS
		VH	TN	-0.04	-0.000023	PASS
		VL	TN	-0.23	-0.000120	PASS
	HCH	VN	TN	-10.89	-0.005730	PASS
	$(C_{\mathcal{I}}, \mathcal{I})$	VH	TN	-1.27	-0.000670	PASS
			Tempe	erature		l I
Modulation	Channel	Voltage [Vdc]	Temperature $(^{\circ}\!$	Deviation (Hz)	Deviation (ppm)	Verdict
		VN	-30	6.78	0.003645	PASS
		VN	-20	2.75	0.001477	PASS
		VN	-10	-0.51	-0.000277	PASS
		VN	0	-7.80	-0.004192	PASS
	LCH	VN	10	1.80	0.000969	PASS
	1:5	VN	20	8.83	0.004745	PASS
	(8.5)	VN	30	-4.95	-0.002661	PASS
		VN	40	0.79	0.000423	PASS
0.0014		VN	50	-3.38	-0.001815	PASS
QPSK		VN	-30	-10.60	-0.005638	PASS
		VN	-20	-12.75	-0.006780	PASS
		VN	-10	-4.08	-0.002169	PASS
		VN	0	-12.73	-0.006772	PASS
	MCH	VN	10	-11.26	-0.005988	PASS
		VN	20	-6.34	-0.003371	PASS
	/0>	VN	30	2.37	0.001263	PASS
		VN	40	-11.79	-0.006270	PASS
	(0)	VN	50	-3.06	-0.001628	PASS



Report No. : EED32l00216504 Page 283 of 289

NO EED	321002100)U 4				raye 200 u
		VN	-30	-12.69	-0.006678	PASS
	1 [VN	-20	4.16	0.002191	PASS
		VN	-10	-2.80	-0.001476	PASS
	1 [VN	0	-10.87	-0.005722	PASS
	нсн	VN	10	0.60	0.000316	PASS
		VN	20	5.49	0.002891	PASS
		VN	30	-8.87	-0.004668	PASS
		VN	40	-10.31	-0.005428	PASS
	(3)	VN	50	-5.95	-0.003132	PASS
	(62)	VN	-30	10.03	0.005391	PASS
		VN	-20	-3.76	-0.002023	PASS
		VN	-10	-9.26	-0.004976	PASS
	1 [VN	0	5.44	0.002923	PASS
	LCH	VN	10	10.49	0.005637	PASS
	1 [VN	20	4.86	0.002615	PASS
	1	VN	30	-5.32	-0.002861	PASS
	1	VN	40	-8.35	-0.004491	PASS
	1 [VN	50	-7.67	-0.004122	PASS
	/°>	VN	-30	-13.12	-0.006978	PASS
		VN	-20	-0.66	-0.000350	PASS
		VN	-10	-2.68	-0.001423	PASS
		VN	0	-9.66	-0.005136	PASS
16QAM	мсн	VN	10	-3.16	-0.001682	PASS
		VN	20	-20.66	-0.010988	PASS
		VN	30	-5.45	-0.002899	PASS
		VN	40	5.24	0.002785	PASS
	1 [VN	50	-7.20	-0.003827	PASS
		VN	-30	-9.16	-0.004819	PASS
	-05	VN	-20	-3.59	-0.001890	PASS
	(41)	VN	-10	-5.69	-0.002997	PASS
	(6,)	VN	0	-11.52	-0.006061	PASS
	нсн	VN	10	-15.18	-0.007988	PASS
	[VN	20	-1.26	-0.000663	PASS
		VN	30	5.44	0.002861	PASS
		VN	40	-1.86	-0.000979	PASS
		VN	50	-3.28	-0.001724	PASS





Report No. : EED32l00216504 Page 284 of 289

Appendix G): Field strength of spurious radiation

Receiver Setup:	Frequency	Detector	RBW	VBW	Remark					
	0.009MHz-30MHz	Peak 10kHz	10kHz	30kHz	Peak					
	30MHz-1GHz	Peak	120kHz	300kHz	Peak					
	Above 1GHz	Peak	1MHz	3MHz	Peak					
Measurement	1. Scan up to 10 th harmor	nic, find the ma	ximum radia	ation freque	ncy to measur	е.				
Procedure:	The technique used to antenna substitution mactual ERP/EIRP emissions	ethod. Substitu	ition method							
	Test procedure as below:									
	 The EUT was powered Anechoic Chamber. The length. modulation mon frequency of the transment The EUT was set 3 meninterference-receiving and antenna tower. 	e antenna of the de and the meanitter under testers(above 180	ne transmitte asuring rece t. GHz the dist	er was exter eiver shall b ance is 1 m	nded to its mand e tuned to the eter) away froi	ximum m the				
	3) The disturbance of the transmitter was maximized on the test receiver display by raising and lowering from 1m to 4m the receive antenna and by rotating through 360° the turntable. After the fundamental emission was maximized, a field strength measurement was made.									
	4) Steps 1) to 3) were performed with the EUT and the receive antenna in both vertical and horizontal polarization.									
	5) The transmitter was then removed and replaced with another antenna. The center of									
	the antenna was approximately at the same location as the center of the transmitter. 6) A signal at the disturbance was fed to the substitution antenna by means of a non-radiating cable. With both the substitution and the receive antennas horizontally polarized, the receive antenna was raised and lowered to obtain a maximum reading at the test receiver. The level of the signal generator was adjusted until the									
	measured field strength level in step 3) is obtained for this set of conditions.									
	 7) The output power into the substitution antenna was then measured. 8) Steps 6) and 7)were repeated with both antennas polarized. 9) Calculate power in dBm by the following formula: ERP(dBm) = Pg(dBm) - cable loss (dB) + antenna gain (dBd) EIRP(dBm) = Pg(dBm) - cable loss (dB) + antenna gain (dBi) 									
	EIRP=ERP+2.15dB			3	(3)					
	where: Pg is the generator output power into the substitution antenna. 10) Test the EUT in the lowest channel, the middle channel the Highest channel									
	11) The radiation measurer operation mode, And fo					UT				
	12) Repeat above procedur									
Limit:	Attenuated at least 43+10ld	/ 4531	•	1-57	•	100				



 $Hot line: 400-6788-333 \\ www.cti-cert.com \\ E-mail: info@cti-cert.com \\ Complaint call: 0755-33681700 \\ Complaint E-mail: complaint@cti-cert.com \\ Complaint call: 0755-33681700 \\ Complaint E-mail: complaint Call: 0755-33681700 \\ Call: 0$



Test Data: **Above 1GHz QPSK**





/3		Band 2	18607 channel/BV	V1.4(lowest	channel)		.2
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1118.517	151	54	-56.06	-13	-43.06	Pass	Н
1350.362	158	78	-54.77	-13	-41.77	Pass	Н
2551.689	149	200	-51.59	-13	-38.59	Pass	н
4797.271	146	161	-46.67	-13	-33.67	Pass	Н
6299.178	150	98	-44.65	-13	-31.65	Pass	Н
10113.670	150	57	-43.90	-13	-30.90	Pass	Н
1350.362	160	20	-52.73	-13	-39.73	Pass	V
1851.542	155	36	-23.66	-13	-10.66	Pass	V
3747.656	146	151	-46.92	-13	-33.92	Pass	V
6331.329	150	20	-45.34	-13	-32.34	Pass	V
9204.600	150	47	-44.42	-13	-31.42	Pass	V
12303.620	146	360	-41.32	-13	-28.32	Pass	V

		Band 2	18900 channel/BW	/1.4(middle	channel)		
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1118.517	150	59	-56.44	-13	-43.44	Pass	Н
1350.362	148	200	-54.88	-13	-41.88	Pass	Н
3766.785	151	161	-47.78	-13	-34.78	Pass	Н
6511.117	160	30	-44.53	-13	-31.53	Pass	Н (С.)
9088.188	155	41	-45.12	-13	-32.12	Pass	Н
12272.340	150	75	-41.91	-13	-28.91	Pass	Н
1124.226	152	200	-54.80	-13	-41.80	Pass	V
1346.929	150	151	-52.87	-13	-39.87	Pass	V
3402.126	149	68	-48.97	-13	-35.97	Pass	V
6511.117	147	201	-44.48	-13	-31.48	Pass	V
9228.060	156	30	-45.12	-13	-32.12	Pass	V
12620.840	151	78	-41.75	-13	-28.75	Pass	V









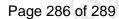














		Band 2	19193 channel/BW	/1.4(highes	t channel)		
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1038.921	145	54	-55.97	-13	-42.97	Pass	Н
1346.929	150	100	-55.08	-13	-42.08	Pass	Н
3747.656	150	281	-48.46	-13	-35.46	Pass	H
6511.117	152	360	-44.35	-13	-31.35	Pass	Н (б
8637.084	160	78	-44.65	-13	-31.65	Pass	Н
12366.420	158	225	-42.10	-13	-29.10	Pass	Н
1127.091	150	20	-56.40	-13	-43.40	Pass	V
1350.362	150	161	-53.05	-13	-40.05	Pass	V
3815.033	150	10	-47.33	-13	-34.33	Pass	V
5476.219	150	79	-45.37	-13	-32.37	Pass	V
8659.098	152	200	-45.14	-13	-32.14	Pass	V
11663.190	160	151	-43.04	-13	-30.04	Pass	V

16QAM

		Band 2	18607 channel/BV	V1.4(lowest	channel)		
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1350.362	151	51	-55.15	-13	-42.15	Pass	Н
3728.625	152	200	-48.67	-13	-35.67	Pass	Н
4946.072	148	56	-48.31	-13	-35.31	Pass	H (
6527.712	145	321	-44.98	-13	-31.98	Pass	Н (С
9417.908	150	22	-44.95	-13	-31.95	Pass	Н
12272.340	147	78	-42.74	-13	-29.74	Pass	Н
1350.362	150	60	-53.77	-13	-40.77	Pass	V
3747.656	158	70	-48.61	-13	-35.61	Pass	V
4946.072	150	89	-48.24	-13	-35.24	Pass	V
6032.401	155	200	-46.62	-13	-33.62	Pass	V
9204.600	152	151	-45.68	-13	-32.68	Pass	V
11428.080	150	360	-43.63	-13	-30.63	Pass	V















Page 287 of 289

		Band 2	18900 channel/BW	V1.4(middle	channel)		
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1346.929	155	145	-55.33	-13	-42.33	Pass	Н
3367.661	158	36078	-49.73	-13	-36.73	Pass	Н
4354.967	149	200	-48.21	-13	-35.21	Pass	H -
6561.030	147	36	-45.06	-13	-32.06	Pass	н
8022.456	150	78	-46.12	-13	-33.12	Pass	н
10139.450	150	205	-45.29	-13	-32.29	Pass	Н
1350.362	155	55	-53.35	-13	-40.35	Pass	V
3588.939	152	164	-47.66	-13	-34.66	Pass	V
4388.352	147	78	-48.54	-13	-35.54	Pass	V
6527.712	150	92	-45.17	-13	-32.17	Pass	V
9346.262	150	200	-45.30	-13	-32.30	Pass	V
12303.620	147	16	-42.41	-13	-29.41	Pass	V

		Band 2	19193 channel/BW	/1.4(highes	t channel)		
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1350.362	151	78	-56.01	-13	-43.01	Pass	Н
2912.824	158	215	-52.27	-13	-39.27	Pass	Н
3757.208	150	36	-47.89	-13	-34.89	Pass	Н
6527.712	150	49	-43.98	-13	-30.98	Pass	Н
9322.501	150	220	-45.24	-13	-32.24	Pass	н
12303.620	148	157	-42.51	-13	-29.51	Pass	Н
1350.362	150	20	-53.46	-13	-40.46	Pass	V
3815.033	150	10	-47.99	-13	-34.99	Pass	V
5895.771	146	360	-46.13	-13	-33.13	Pass	V
8022.456	155	78	-45.98	-13	-32.98	Pass	V
9228.060	152	20	-45.09	-13	-32.09	Pass	V
11812.580	150	46	-42.17	-13	-29.17	Pass	V

Note:

1) Scan from 9kHz to 25GHz, the disturbance above 13GHz and below 1GHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.









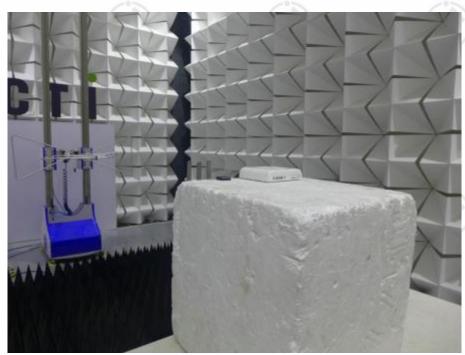




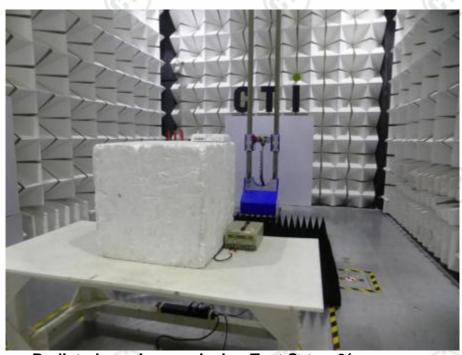
Page 288 of 289

PHOTOGRAPHS OF TEST SETUP

Test model No.: TN-IVS-8000



Radiated spurious emission Test Setup-1(Below 1GHz)



Radiated spurious emission Test Setup-2(Above 1GHz)















Annex A: Appendix A: PHOTOGRAPHS OF EUT Constructional Details

(Please See Appendix A)



The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CTI, this report can't be reproduced except in full.

