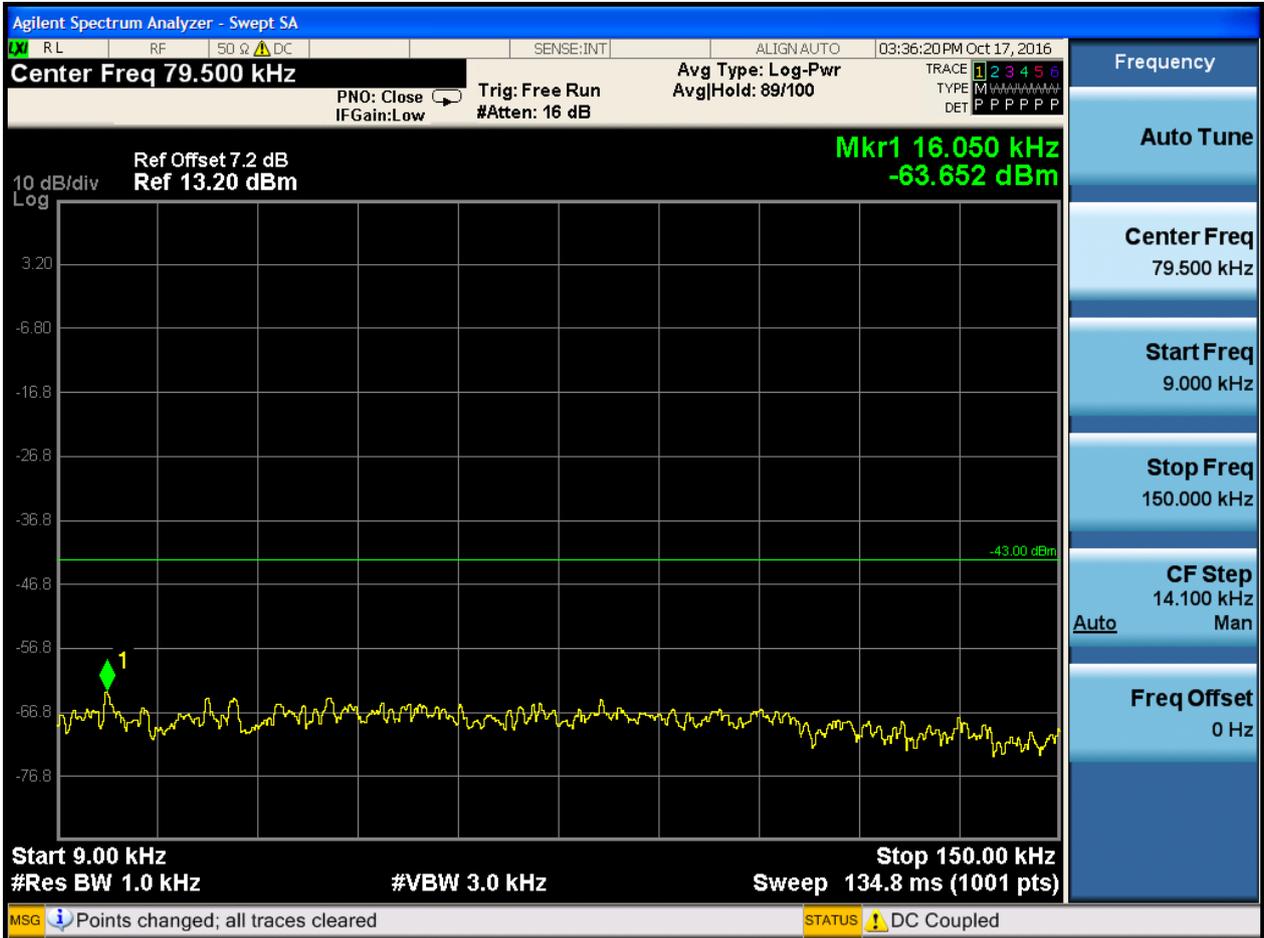


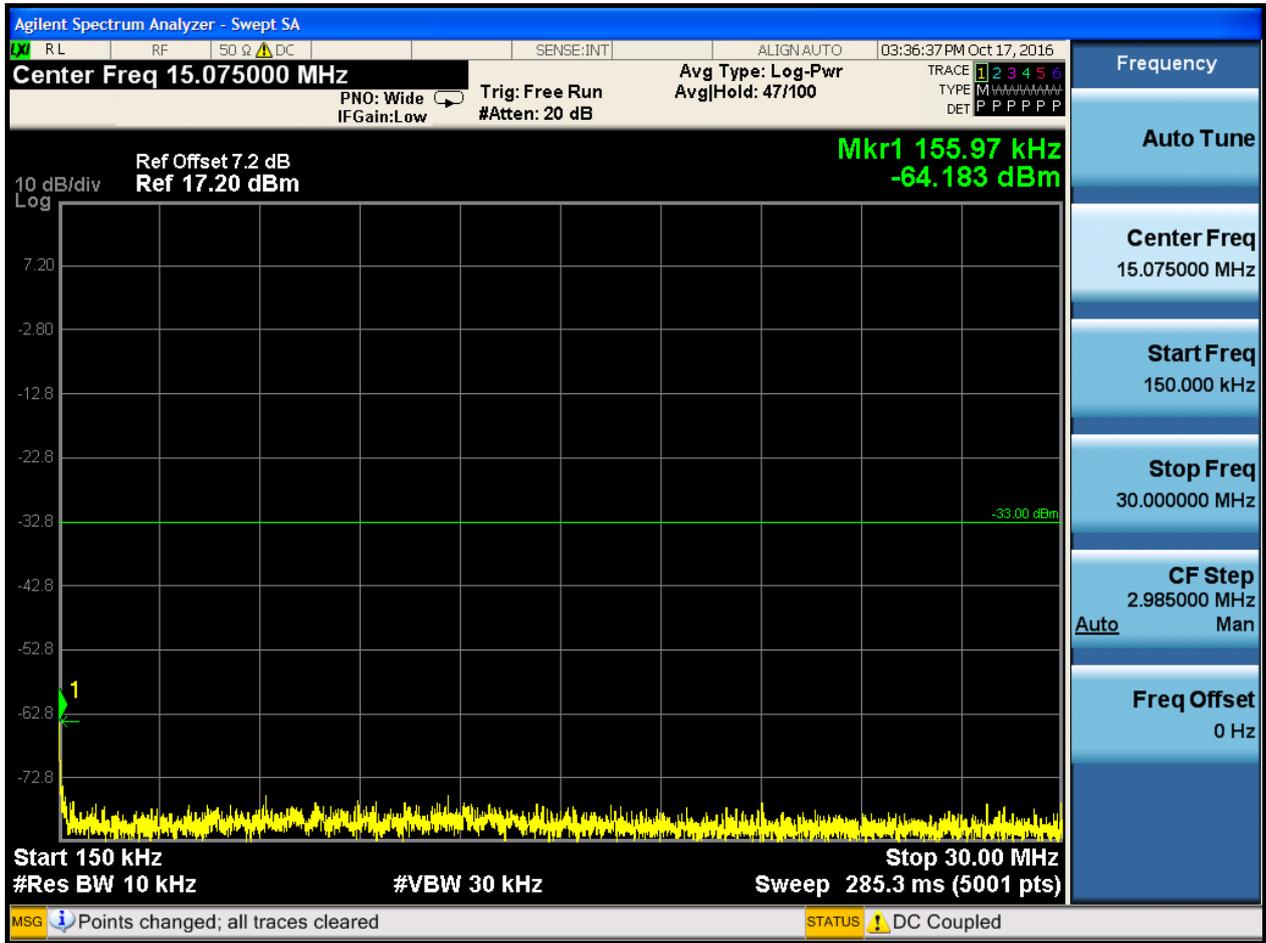




6.1.1.2.3.3 Test Channel = HCH

6.1.1.2.3.3.1 Test RB = RB1#0





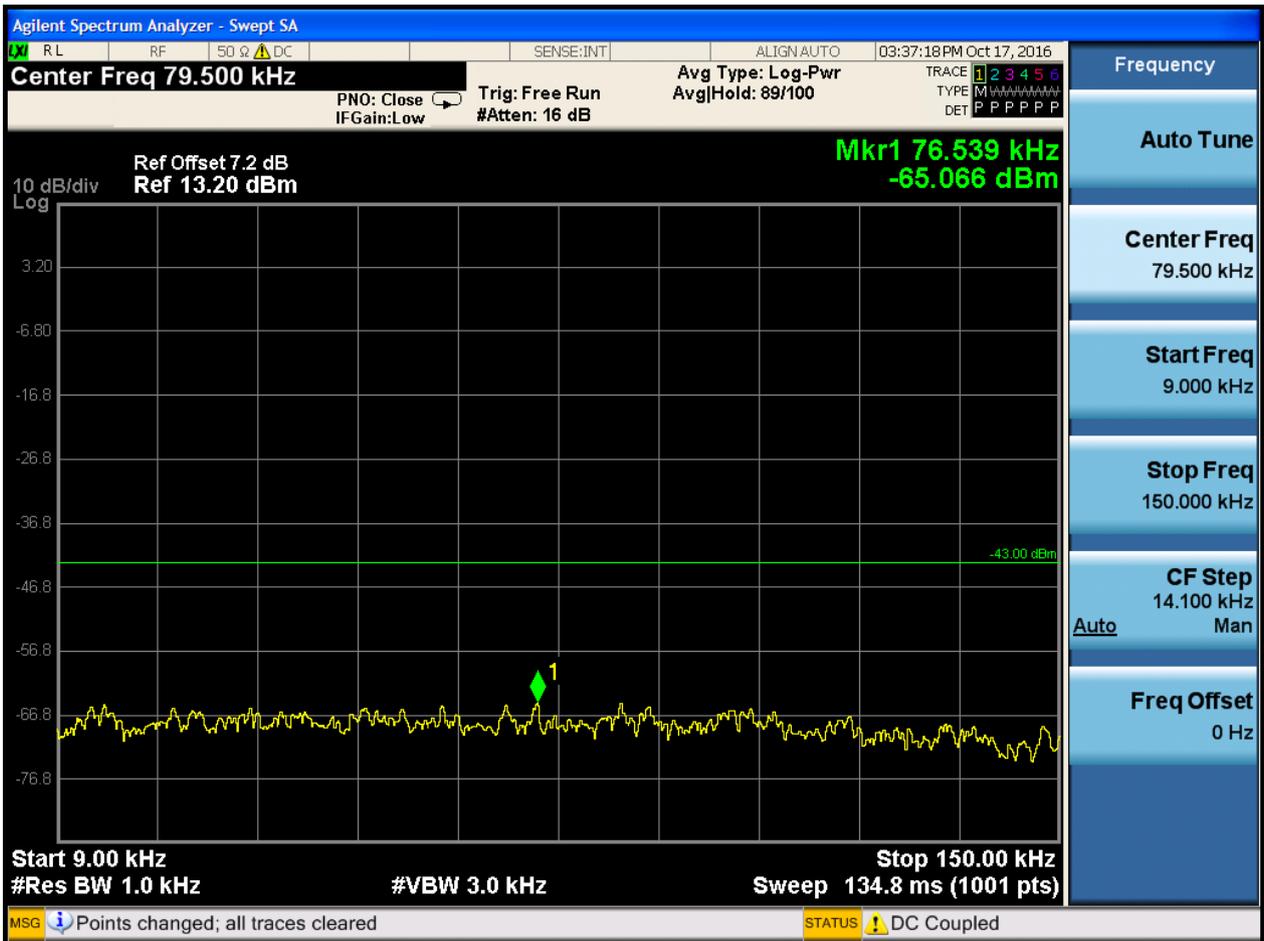




6.1.1.2.4 Test Bandwidth = 10

6.1.1.2.4.1 Test Channel = LCH

6.1.1.2.4.1.1 Test RB = RB1#0



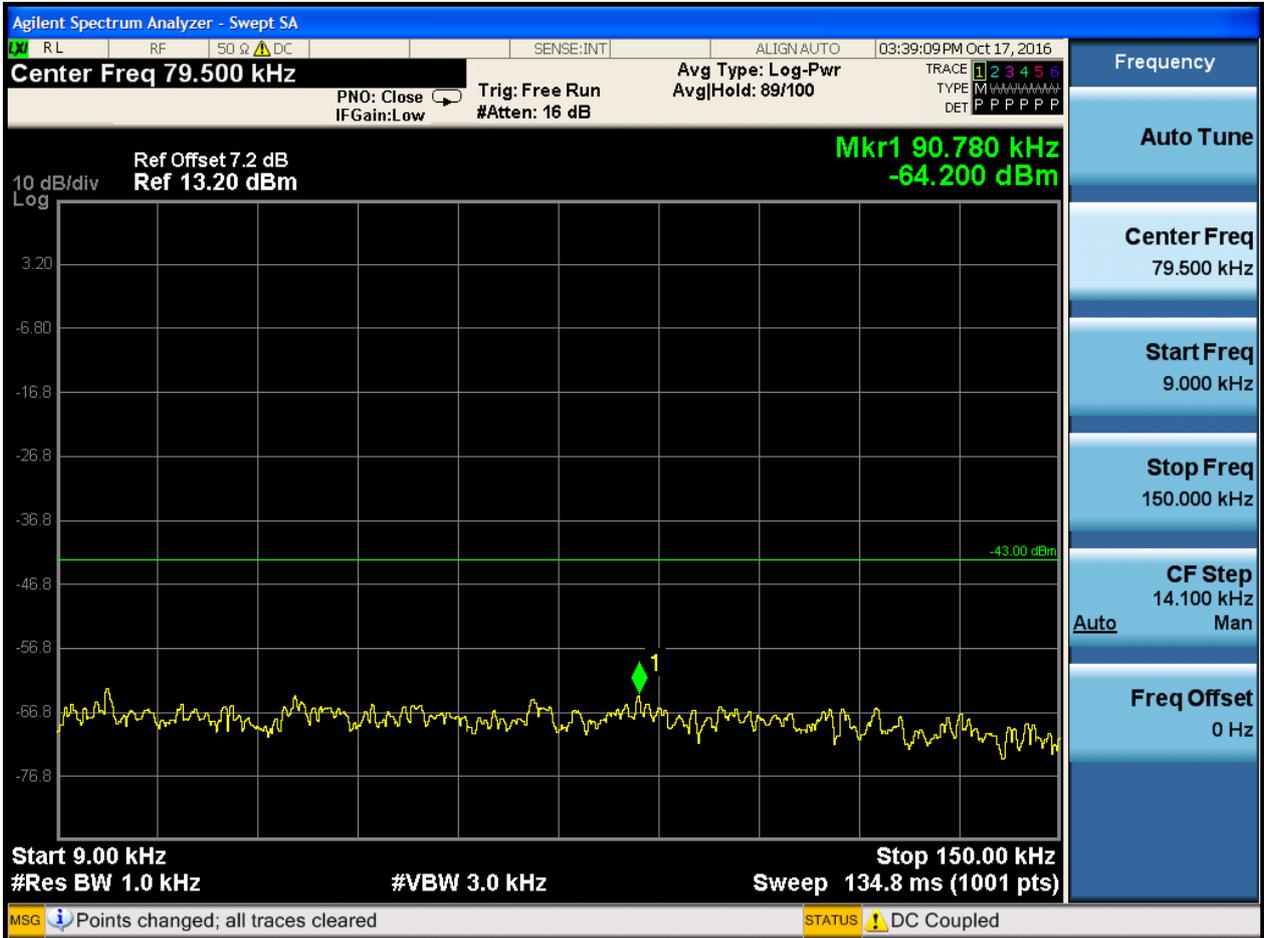






6.1.1.2.4.3 Test Channel = HCH

6.1.1.2.4.3.1 Test RB = RB1#0



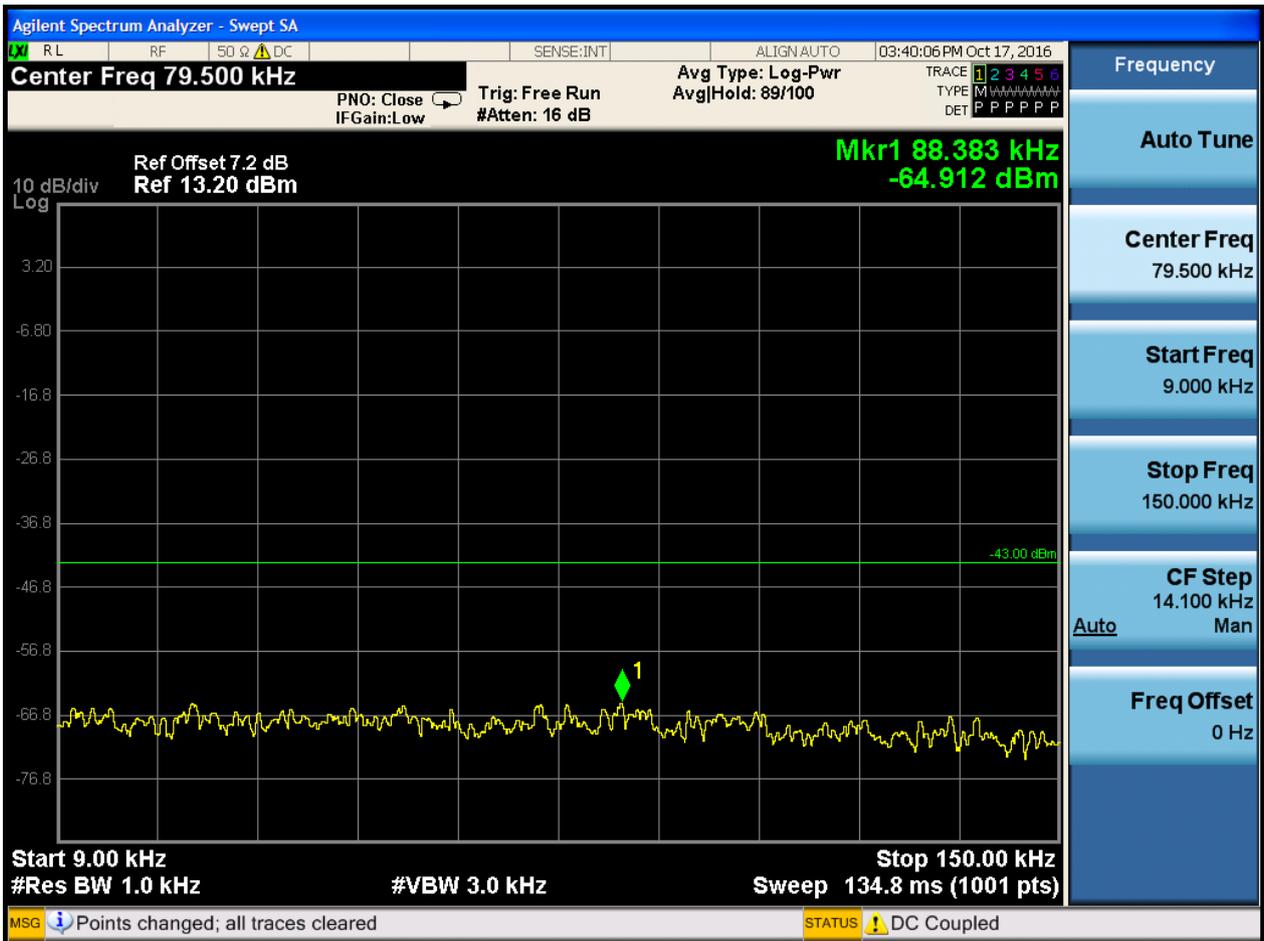




6.1.1.2.5 Test Bandwidth = 15

6.1.1.2.5.1 Test Channel = LCH

6.1.1.2.5.1.1 Test RB = RB1#0

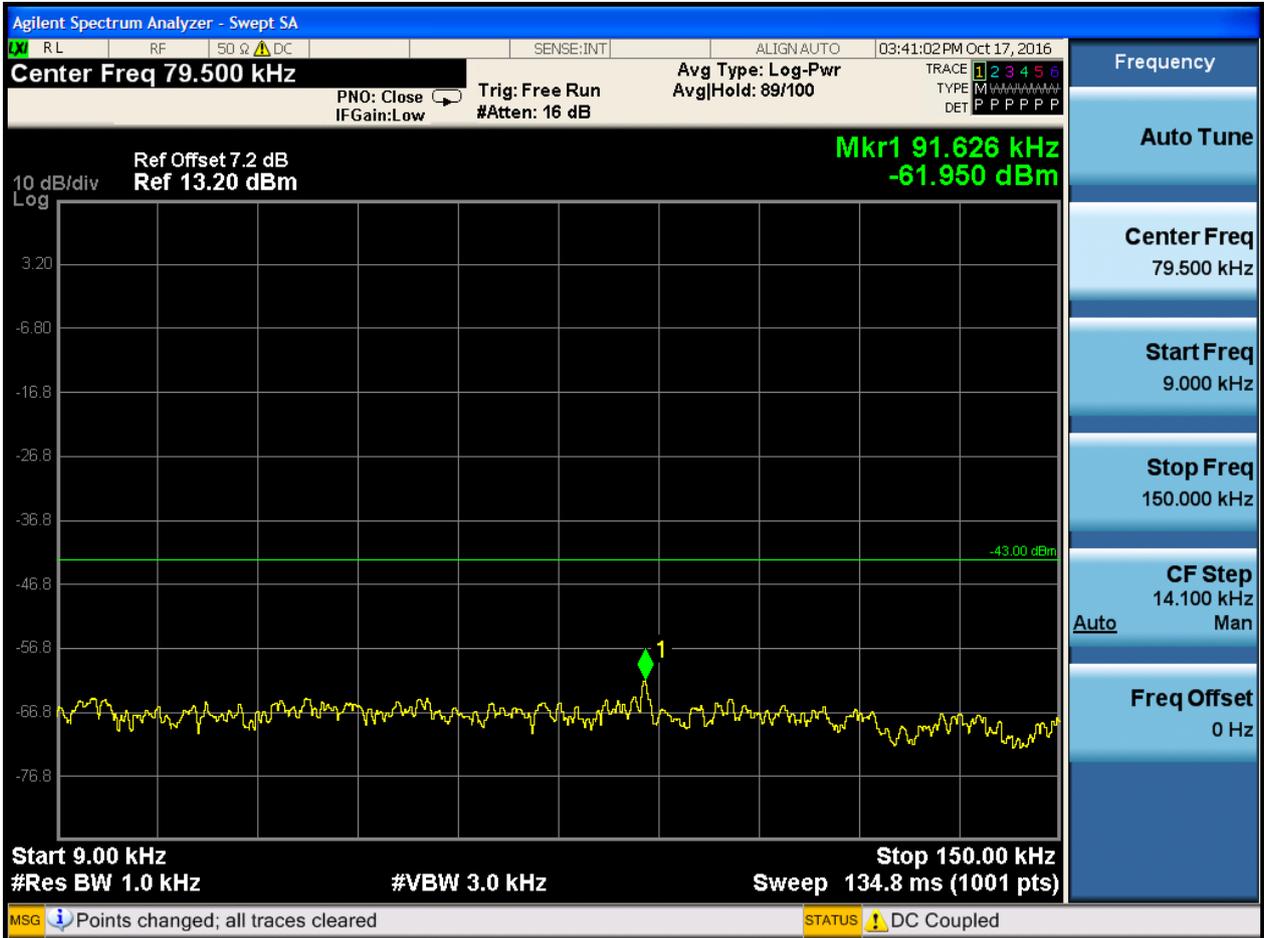


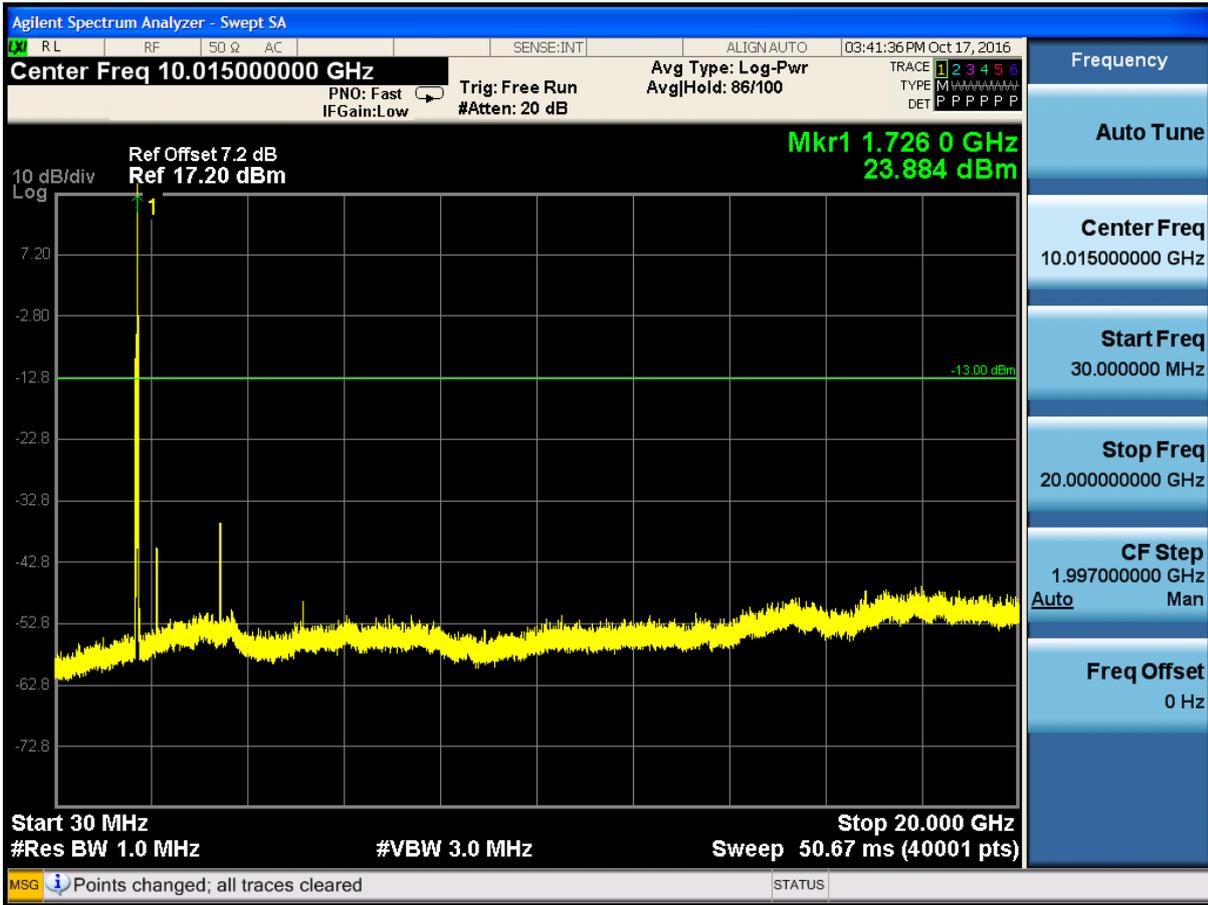




6.1.1.2.5.2 Test Channel = MCH

6.1.1.2.5.2.1 Test RB = RB1#0





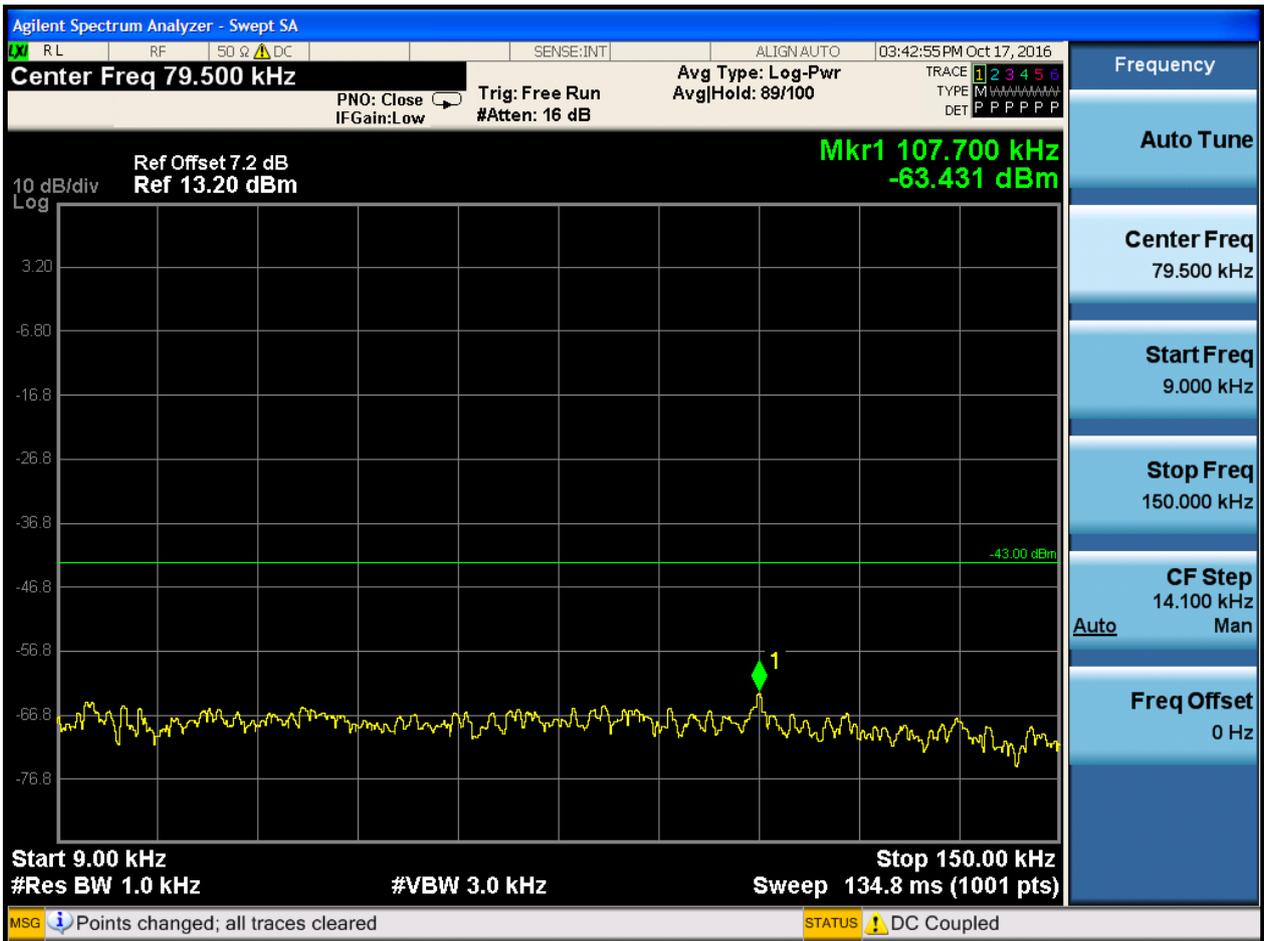


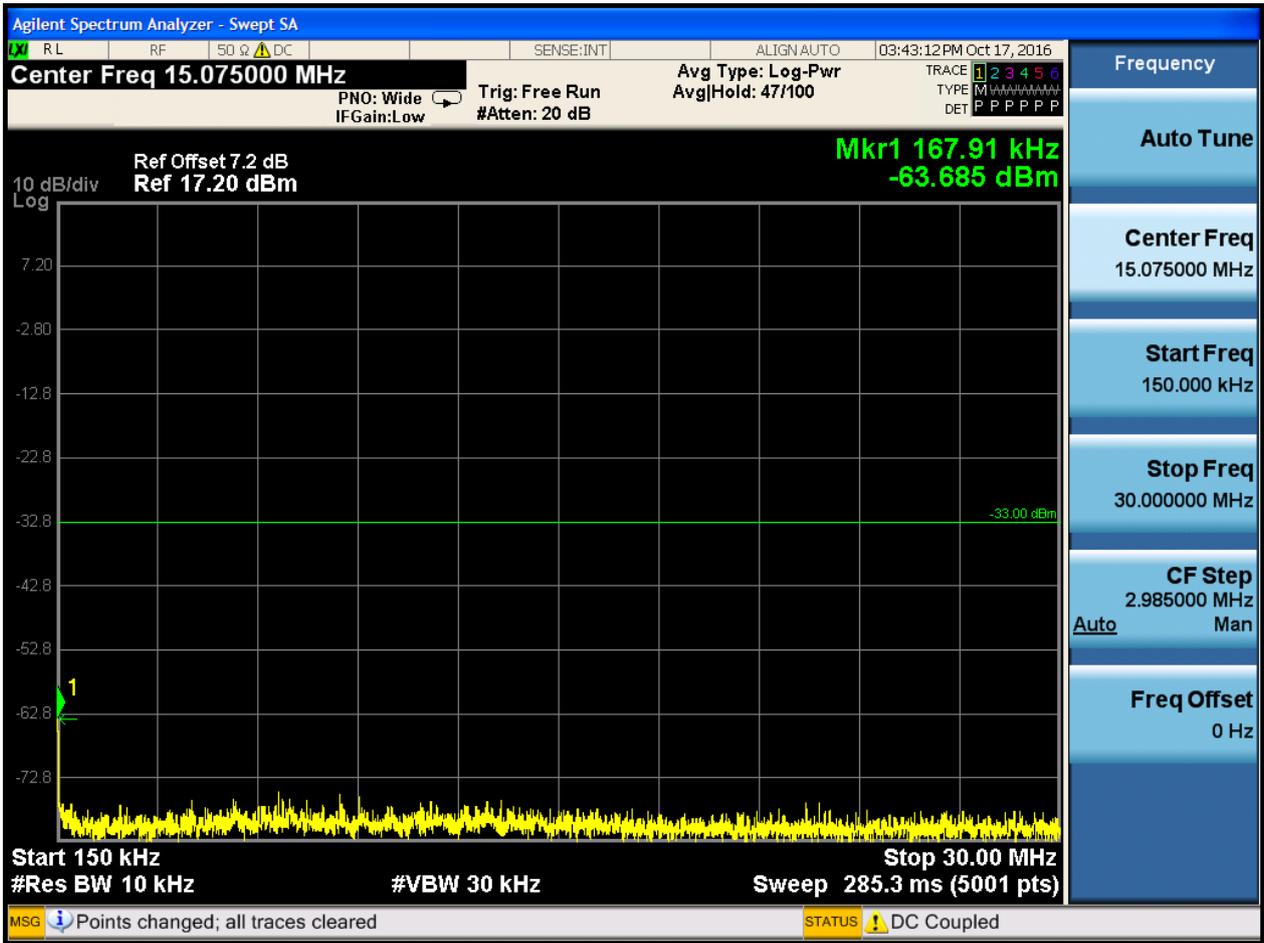


6.1.1.2.6 Test Bandwidth = 20

6.1.1.2.6.1 Test Channel = LCH

6.1.1.2.6.1.1 Test RB = RB1#0



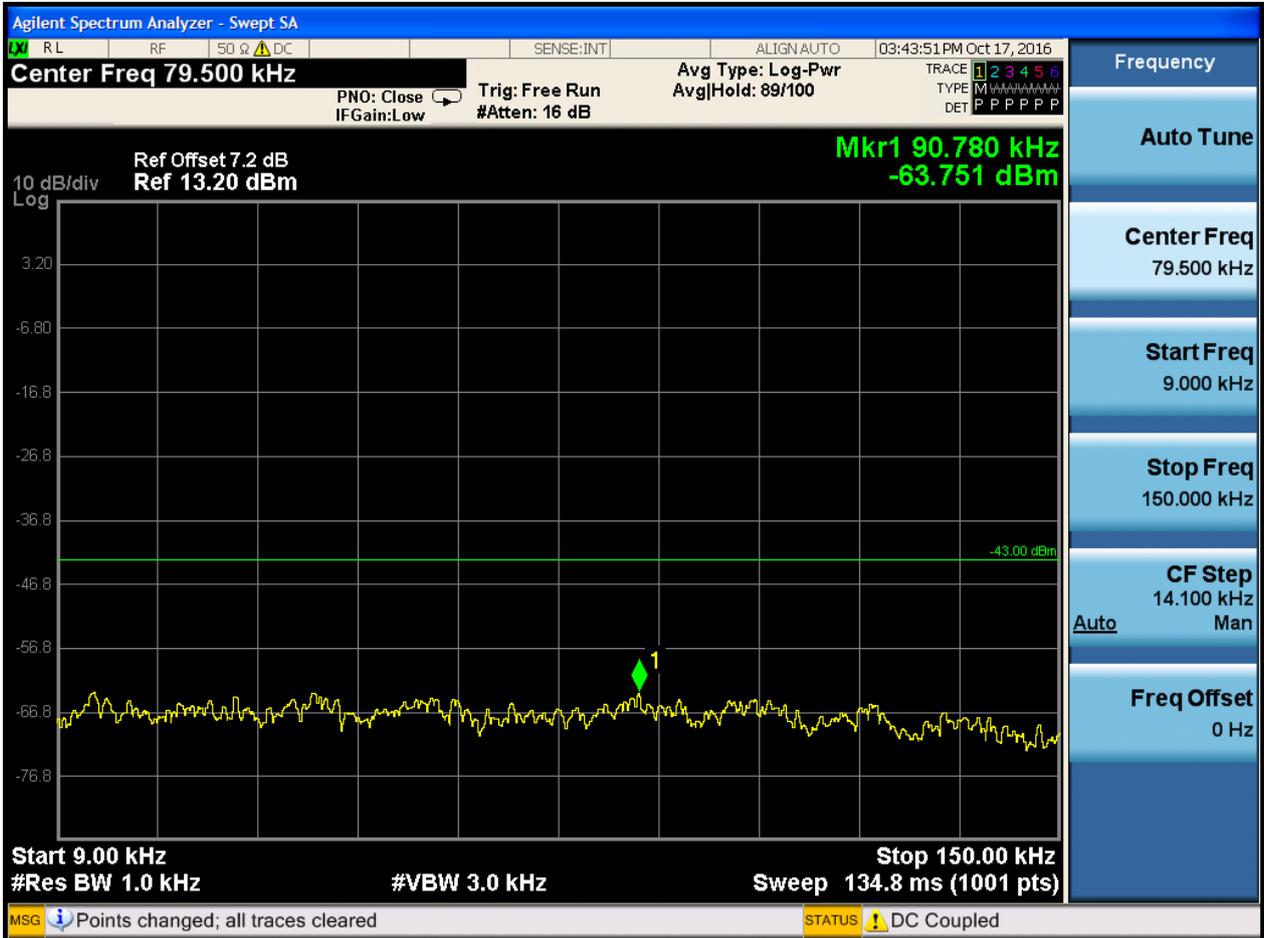


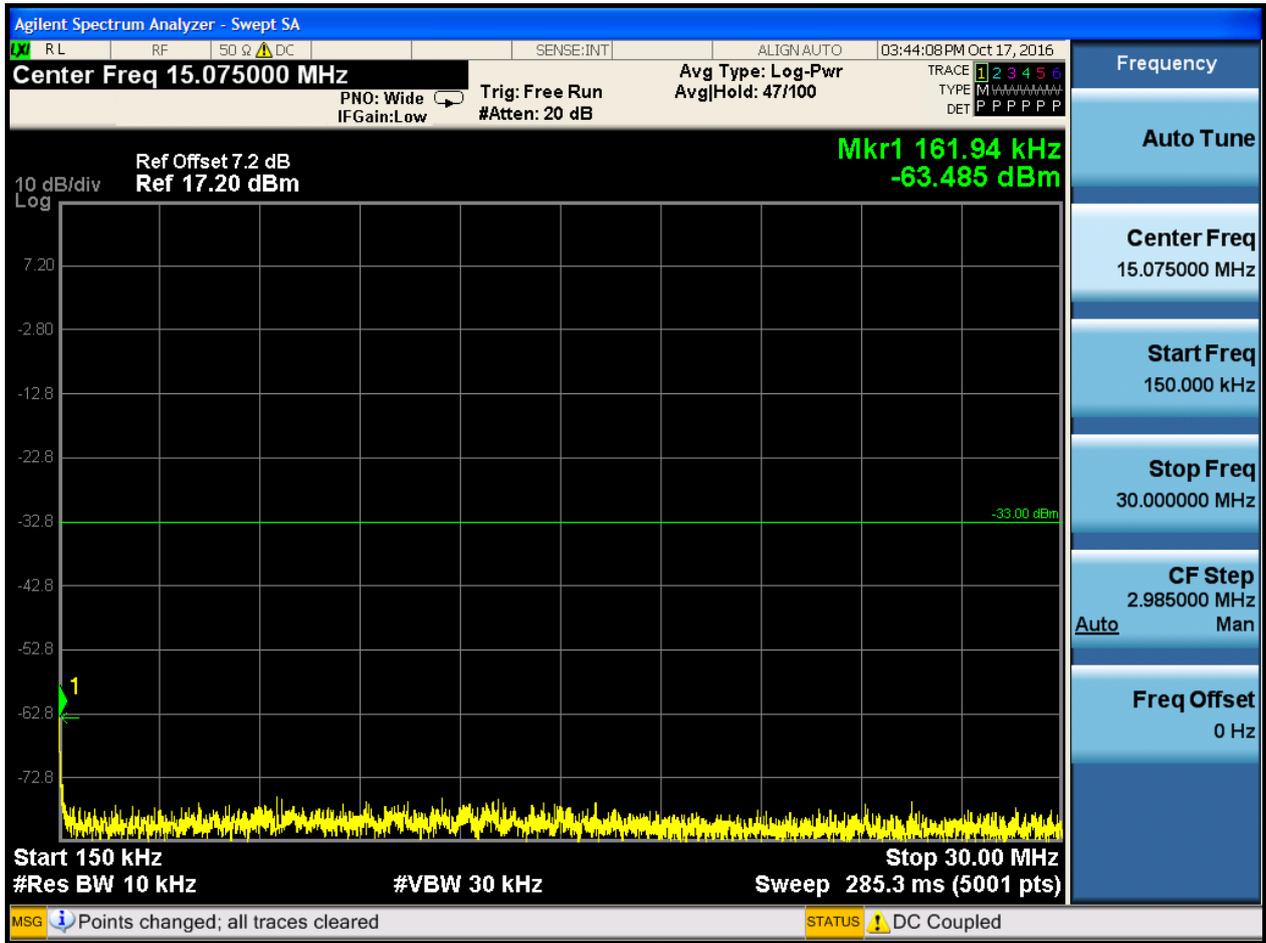




6.1.1.2.6.2 Test Channel = MCH

6.1.1.2.6.2.1 Test RB = RB1#0









7Appendix_G: Field Strength of Spurious Radiation

Note: We tested all modes, but the data presented below is the worst case.

9kHz~150kHz, VBW = 200Hz, VBW = 600 Hz, Detector: PK

150kHz~30MHz, VBW = 9kHz, VBW = 30k Hz, Detector: PK

30MHz~1GHz, RBW = 100 kHz, VBW = 300 kHz. Detector: PK

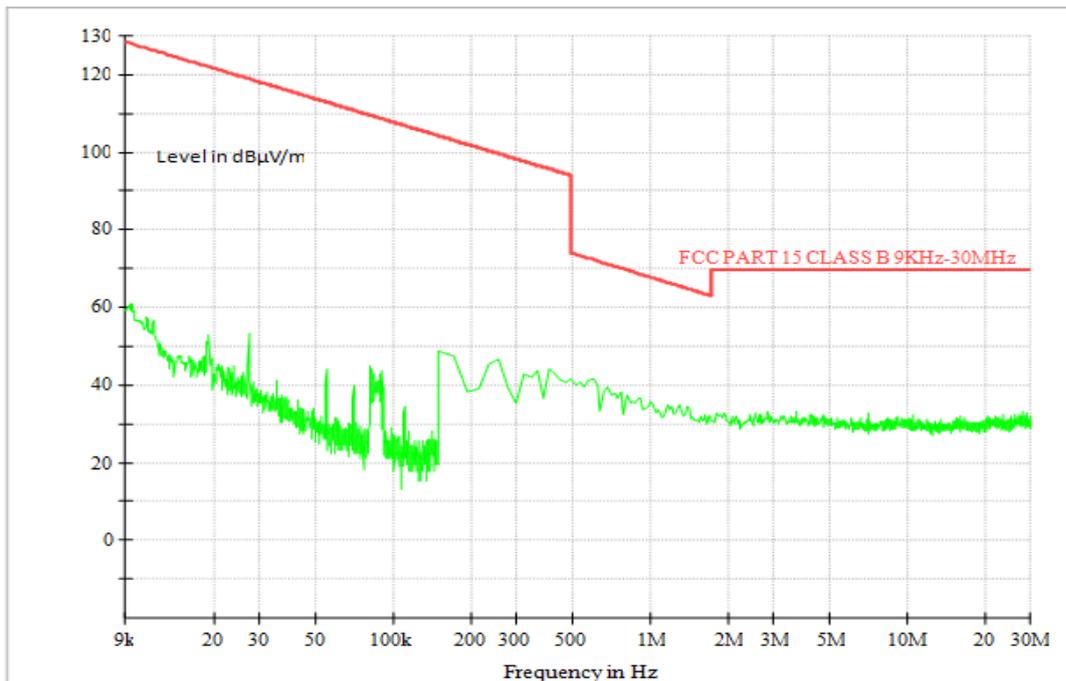
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Part I - Test Plots

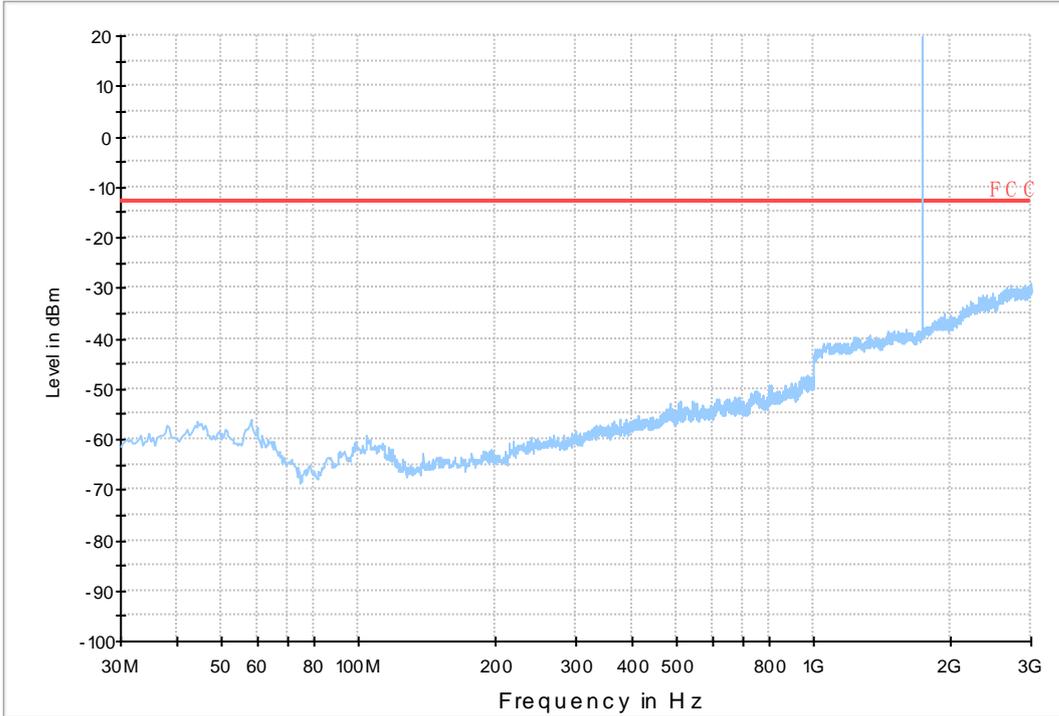
7.1 For LTE

7.1.1 Test Band = BAND4

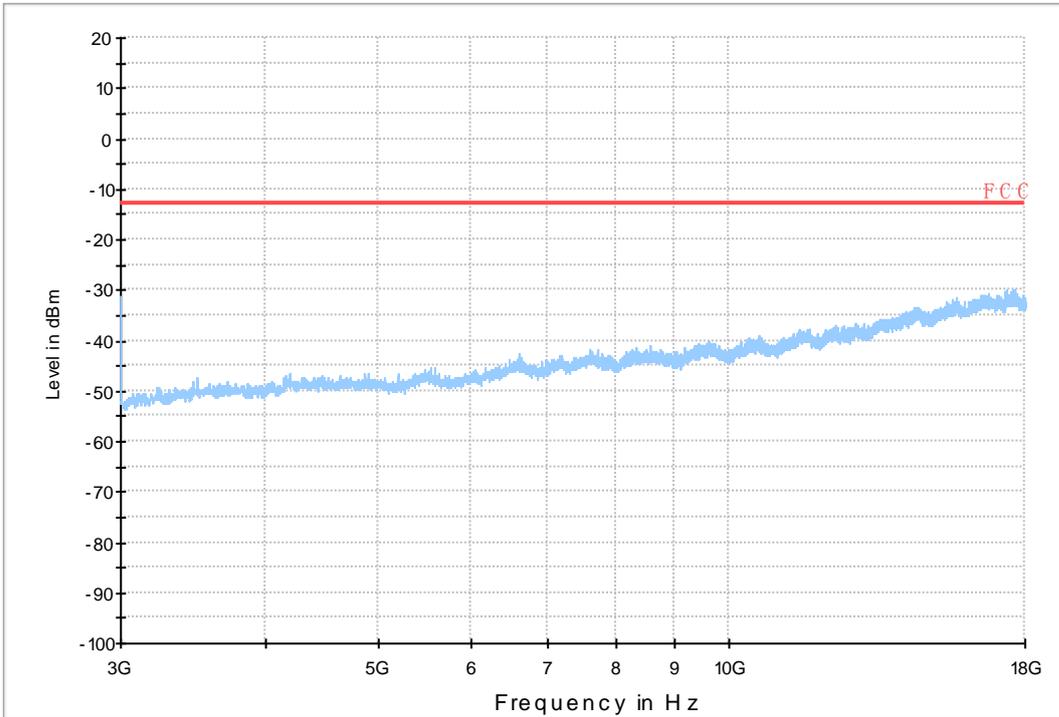
7.1.1.1 Test Bandwidth = 1.4



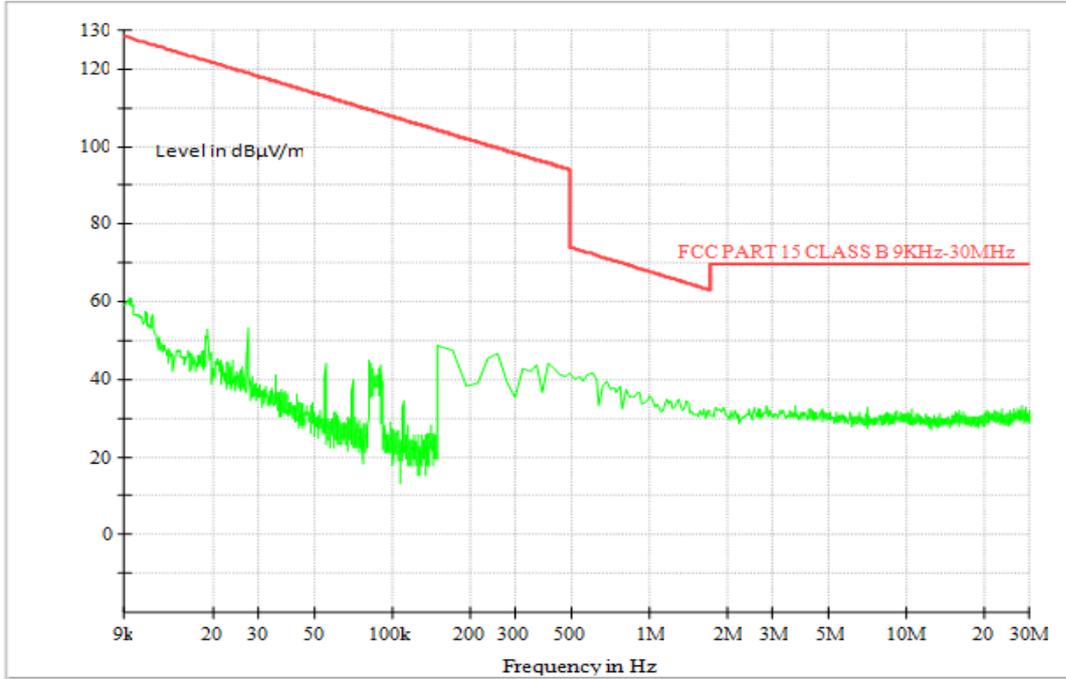
Copy of RSE-TX-DIRECTOR ABOVE 1.5G_L



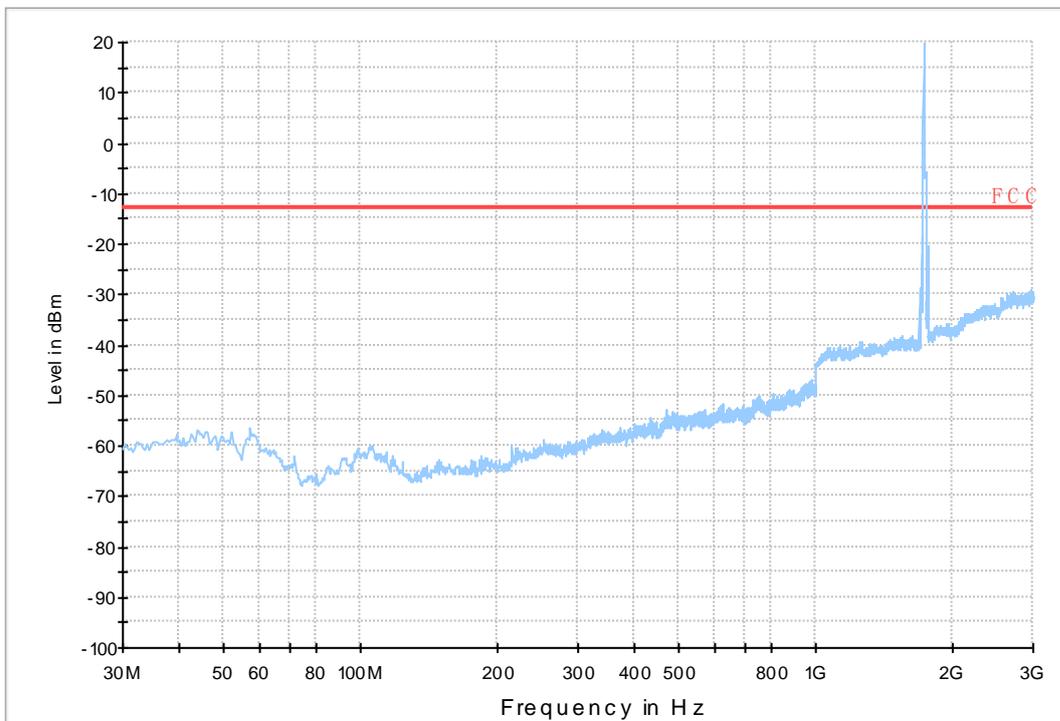
Copy of RSE-TX-DIRECTOR ABOVE 1.5G_H



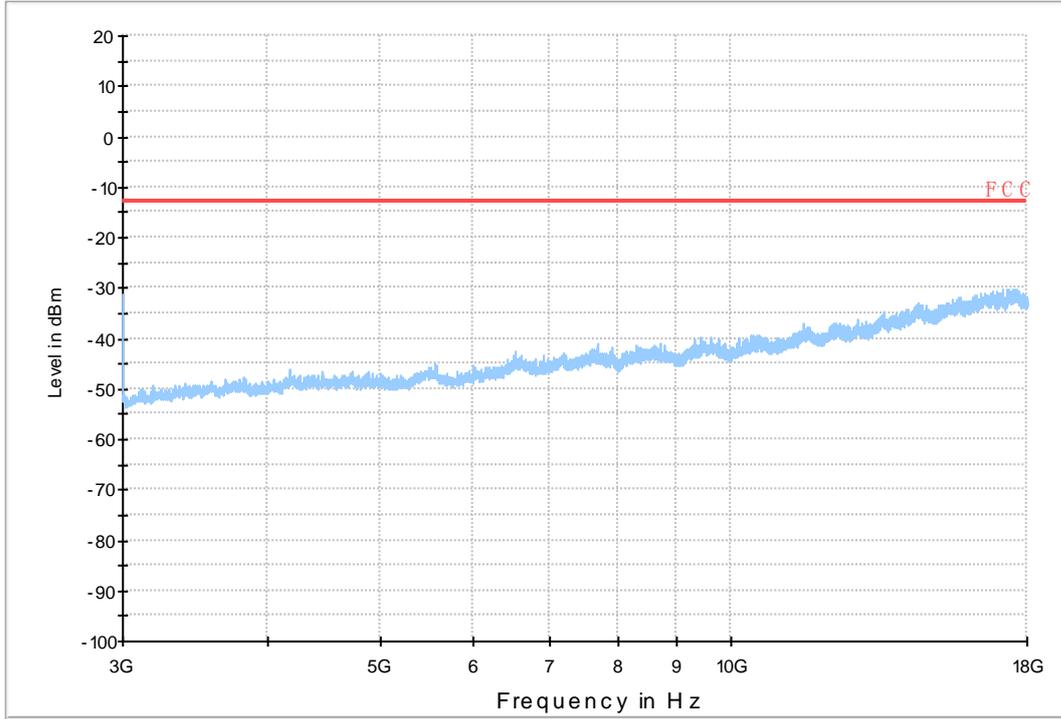
7.1.1.2 Test Bandwidth = 20



Copy of RSE-TX-DIRECTOR ABOVE 1.5G_L



Copy of RSE-TX-DIRECTOR ABOVE 1.5G_H





8Appendix_H: Frequency Stability



8.1 For LTE

8.1.1 Frequency Error vs. Voltage:

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
BAND4	LTE/TM1	1.4	LCH	TN	VL	-0.41	-0.00024	PASS
					VN	1.66	0.00097	PASS
					VH	8.88	0.00519	PASS
			MCH	TN	VL	1.62	0.00094	PASS
					VN	-3.06	-0.00177	PASS
					VH	-3.22	-0.00186	PASS
			HCH	TN	VL	-3.33	-0.00190	PASS
					VN	0.56	0.00032	PASS
					VH	-3.12	-0.00178	PASS
		3	LCH	TN	VL	-3.69	-0.00216	PASS
					VN	-9.41	-0.00550	PASS
					VH	0.79	0.00046	PASS
			MCH	TN	VL	-4.65	-0.00268	PASS
					VN	-2.1	-0.00121	PASS
					VH	-2.09	-0.00121	PASS
			HCH	TN	VL	-0.77	-0.00044	PASS
					VN	-1.67	-0.00095	PASS
					VH	2.29	0.00131	PASS
		5	LCH	TN	VL	2.07	0.00121	PASS
					VN	0.72	0.00042	PASS
					VH	-0.23	-0.00013	PASS
			MCH	TN	VL	0.19	0.00011	PASS
					VN	-3.03	-0.00175	PASS
					VH	0.99	0.00057	PASS
			HCH	TN	VL	-1.22	-0.00070	PASS
					VN	-3.28	-0.00187	PASS
					VH	-0.4	-0.00023	PASS
		10	LCH	TN	VL	-2.73	-0.00159	PASS
					VN	-3.59	-0.00209	PASS
					VH	-0.2	-0.00012	PASS
MCH	TN		VL	4.11	0.00237	PASS		
			VN	3.48	0.00201	PASS		
			VH	-6.04	-0.00349	PASS		

		15	HCH	TN	VL	-2.92	-0.00167	PASS	
					VN	-3.42	-0.00195	PASS	
					VH	-4.01	-0.00229	PASS	
			LCH	TN	VL	-1.8	-0.00105	PASS	
					VN	-2.02	-0.00118	PASS	
					VH	-0.79	-0.00046	PASS	
			MCH	TN	VL	-5.48	-0.00316	PASS	
					VN	-2.2	-0.00127	PASS	
					VH	-2.68	-0.00155	PASS	
		HCH	TN	VL	-2.39	-0.00137	PASS		
				VN	-3.1	-0.00177	PASS		
				VH	-1.92	-0.00110	PASS		
		20	LCH	TN	VL	-3.68	-0.00214	PASS	
					VN	-4.23	-0.00246	PASS	
					VH	-4.65	-0.00270	PASS	
			MCH	TN	VL	-1.1	-0.00063	PASS	
					VN	-0.84	-0.00048	PASS	
					VH	-1.02	-0.00059	PASS	
			HCH	TN	VL	-3.12	-0.00179	PASS	
					VN	-3.33	-0.00191	PASS	
					VH	-1.77	-0.00101	PASS	
		LTE/TM2	1.4	LCH	TN	VL	-5.55	-0.00324	PASS
						VN	-16.06	-0.00939	PASS
						VH	-11.9	-0.00696	PASS
				MCH	TN	VL	-3.78	-0.00218	PASS
						VN	2.99	0.00173	PASS
						VH	-1.72	-0.00099	PASS
				HCH	TN	VL	-0.53	-0.00030	PASS
						VN	-9.47	-0.00540	PASS
						VH	-0.16	-0.00009	PASS
			3	LCH	TN	VL	-1.79	-0.00105	PASS
						VN	-2.83	-0.00165	PASS
						VH	-1.52	-0.00089	PASS
				MCH	TN	VL	-0.76	-0.00044	PASS
						VN	-7.07	-0.00408	PASS
						VH	7.61	0.00439	PASS
				HCH	TN	VL	-2.99	-0.00171	PASS
						VN	-0.53	-0.00030	PASS
						VH	1.87	0.00107	PASS
			5	LCH	TN	VL	-4.02	-0.00235	PASS
						VN	-2.59	-0.00151	PASS



				VH	1.69	0.00099	PASS		
			MCH	TN	VL	0.36	0.00021		
				VN	-2.9	-0.00167	PASS		
				VH	-7.01	-0.00405	PASS		
			HCH	TN	VL	-3.5	-0.00200		
				VN	1.86	0.00106	PASS		
				VH	-1.29	-0.00074	PASS		
		10	LCH	TN	VL	-4.43	-0.00258	PASS	
					VN	-1.79	-0.00104	PASS	
					VH	-1.36	-0.00079	PASS	
			MCH	TN	VL	1.4	0.00081	PASS	
					VN	2.59	0.00149	PASS	
					VH	1.04	0.00060	PASS	
			HCH	TN	VL	-1.19	-0.00068	PASS	
					VN	0.64	0.00037	PASS	
					VH	0.33	0.00019	PASS	
			15	LCH	TN	VL	-8.28	-0.00482	PASS
						VN	-5.04	-0.00293	PASS
						VH	-3.4	-0.00198	PASS
		MCH		TN	VL	-3.71	-0.00214	PASS	
					VN	-2.66	-0.00154	PASS	
					VH	0.83	0.00048	PASS	
		HCH	TN	VL	0.23	0.00013	PASS		
				VN	2.5	0.00143	PASS		
				VH	-1.1	-0.00063	PASS		
		20	LCH	TN	VL	-0.96	-0.00056	PASS	
					VN	3.03	0.00176	PASS	
					VH	0.56	0.00033	PASS	
			MCH	TN	VL	-1.72	-0.00099	PASS	
					VN	-2.5	-0.00144	PASS	
					VH	-2.62	-0.00151	PASS	
			HCH	TN	VL	1.12	0.00064	PASS	
					VN	-0.8	-0.00046	PASS	
					VH	-3.03	-0.00174	PASS	

8.2.2 Frequency Error vs. Temperature:

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
BAND4	LTE/TM1	1.4	LCH	VN	-30	-0.3	-0.00018	PASS
					-20	7.21	0.00421	PASS
					-10	7.2	0.00421	PASS
					0	9.06	0.00530	PASS
					10	4.39	0.00257	PASS
					20	3.65	0.00213	PASS
					30	1.3	0.00076	PASS
					40	4.28	0.00250	PASS
					50	1.5	0.00088	PASS
			MCH	VN	-30	0.73	0.00042	PASS
					-20	2.95	0.00170	PASS
					-10	2.57	0.00148	PASS
					0	3.98	0.00230	PASS
					10	0.31	0.00018	PASS
					20	0.03	0.00002	PASS
					30	0.46	0.00027	PASS
					40	-0.51	-0.00029	PASS
					50	1.06	0.00061	PASS
		HCH	VN	-30	1.02	0.00058	PASS	
				-20	2.9	0.00165	PASS	
				-10	3.56	0.00203	PASS	
				0	1.44	0.00082	PASS	
				10	1.3	0.00074	PASS	
				20	-0.93	-0.00053	PASS	
				30	1.9	0.00108	PASS	
				40	-0.11	-0.00006	PASS	
				50	-0.37	-0.00021	PASS	
		3	LCH	VN	-30	1.46	0.00085	PASS
-20	2.06				0.00120	PASS		
-10	3.48				0.00203	PASS		
0	2.43				0.00142	PASS		
10	3.46				0.00202	PASS		
20	3.62				0.00212	PASS		
30	1.97				0.00115	PASS		

			MCH	VN	40	-0.51	-0.00030	PASS
					50	0.11	0.00006	PASS
					-30	0.07	0.00004	PASS
					-20	2.78	0.00160	PASS
					-10	4.23	0.00244	PASS
					0	3.03	0.00175	PASS
					10	0.49	0.00028	PASS
					20	0.62	0.00036	PASS
					30	1.72	0.00099	PASS
					40	-1.37	-0.00079	PASS
			50	0.56	0.00032	PASS		
			HCH	VN	-30	3.56	0.00203	PASS
					-20	3.08	0.00176	PASS
					-10	-0.77	-0.00044	PASS
					0	-0.27	-0.00015	PASS
					10	1.66	0.00095	PASS
					20	1.53	0.00087	PASS
					30	-0.11	-0.00006	PASS
					40	0.83	0.00047	PASS
			50	0.84	0.00048	PASS		
			LCH	VN	-30	0.77	0.00045	PASS
					-20	3.63	0.00212	PASS
					-10	1.14	0.00067	PASS
					0	0.49	0.00029	PASS
					10	-1.37	-0.00080	PASS
					20	-0.72	-0.00042	PASS
					30	-1.12	-0.00065	PASS
					40	-1.26	-0.00074	PASS
					50	0.44	0.00026	PASS
					MCH	VN	-30	2.83
			-20	4.79			0.00276	PASS
			-10	0.77			0.00044	PASS
			0	1.75			0.00101	PASS
			10	3.76			0.00217	PASS
			20	1.97			0.00114	PASS
			30	1.73			0.00100	PASS
			40	-0.97			-0.00056	PASS
			50	2.13	0.00123	PASS		
			HCH	VN	-30	-1.76	-0.00100	PASS
					-20	-0.01	-0.00001	PASS
					-10	-2.06	-0.00118	PASS

				0	-2.73	-0.00156	PASS		
				10	-3.76	-0.00215	PASS		
				20	-3.12	-0.00178	PASS		
				30	-1.42	-0.00081	PASS		
				40	-2.57	-0.00147	PASS		
				50	-3.82	-0.00218	PASS		
		10	LCH	VN	-30	2.73	0.00159	PASS	
					-20	2.55	0.00149	PASS	
					-10	-0.6	-0.00035	PASS	
					0	0.79	0.00046	PASS	
					10	-2.26	-0.00132	PASS	
					20	0.54	0.00031	PASS	
				MCH	VN	30	-0.9	-0.00052	PASS
			40			2.17	0.00127	PASS	
			50			-0.53	-0.00031	PASS	
			-30			0.7	0.00040	PASS	
			-20			0.97	0.00056	PASS	
			-10			0.57	0.00033	PASS	
			0			1.67	0.00096	PASS	
			10			1.96	0.00113	PASS	
				HCH	VN	20	0.04	0.00002	PASS
			30			1	0.00058	PASS	
		40	0.54			0.00031	PASS		
		50	1.39			0.00080	PASS		
		-30	0.82			0.00047	PASS		
		-20	0.24			0.00014	PASS		
		-10	3.29			0.00188	PASS		
		0	0.82			0.00047	PASS		
			LCH	VN	10	-1.34	-0.00077	PASS	
		20			0.13	0.00007	PASS		
		30			-2	-0.00114	PASS		
		40			-2.43	-0.00139	PASS		
		50			-1.65	-0.00094	PASS		
		-30			0.21	0.00012	PASS		
		-20			-3.82	-0.00222	PASS		
		-10			-6.67	-0.00388	PASS		
			LCH	VN	0	-1.77	-0.00103	PASS	
		10			-3.73	-0.00217	PASS		
		20			-0.92	-0.00054	PASS		
		30			1.82	0.00106	PASS		
					40	-3.1	-0.00180	PASS	

				50	-2.35	-0.00136	PASS	
			MCH	VN	-30	1.56	0.00090	PASS
					-20	1.69	0.00098	PASS
					-10	1.75	0.00101	PASS
					0	2.39	0.00138	PASS
					10	-0.87	-0.00050	PASS
					20	1.75	0.00101	PASS
					30	3.4	0.00196	PASS
					40	-1.65	-0.00095	PASS
					50	0.53	0.00031	PASS
			HCH	VN	-30	-0.44	-0.00025	PASS
					-20	3.49	0.00200	PASS
					-10	3.66	0.00209	PASS
					0	2.92	0.00167	PASS
					10	-0.96	-0.00055	PASS
					20	-1.33	-0.00076	PASS
					30	-1.95	-0.00112	PASS
					40	-1.75	-0.00100	PASS
					50	8.27	0.00473	PASS
		20	LCH	VN	-30	1.69	0.00098	PASS
					-20	0.03	0.00002	PASS
					-10	-1.17	-0.00068	PASS
					0	0.03	0.00002	PASS
					10	-1.75	-0.00102	PASS
					20	-3.76	-0.00219	PASS
					30	-1.24	-0.00072	PASS
					40	5.68	0.00330	PASS
					50	2.27	0.00132	PASS
			MCH	VN	-30	0.21	0.00012	PASS
					-20	1.37	0.00079	PASS
					-10	-0.04	-0.00002	PASS
					0	1.67	0.00096	PASS
					10	-2.25	-0.00130	PASS
					20	-0.84	-0.00048	PASS
					30	0.72	0.00042	PASS
					40	-1	-0.00058	PASS
					50	-1.54	-0.00089	PASS
		HCH	VN	-30	0.97	0.00056	PASS	
				-20	1.29	0.00074	PASS	
				-10	2.69	0.00154	PASS	
				0	1.47	0.00084	PASS	

LTE/TM2	1.4	LCH	VN	10	2	0.00115	PASS
				20	-0.06	-0.00003	PASS
				30	-0.1	-0.00006	PASS
				40	-0.24	-0.00014	PASS
				50	-1.56	-0.00089	PASS
				-30	-3.03	-0.00177	PASS
				-20	6.04	0.00353	PASS
				-10	7.04	0.00412	PASS
				0	4.61	0.00269	PASS
				10	-0.03	-0.00002	PASS
		20	3.85	0.00225	PASS		
		30	1.63	0.00095	PASS		
		40	0.43	0.00025	PASS		
		50	-0.14	-0.00008	PASS		
		MCH	VN	-30	3.19	0.00184	PASS
				-20	5.41	0.00312	PASS
				-10	5.64	0.00326	PASS
				0	3.12	0.00180	PASS
				10	2.47	0.00143	PASS
				20	2.96	0.00171	PASS
	30			1.79	0.00103	PASS	
	40			2.42	0.00140	PASS	
	50			2.45	0.00141	PASS	
	HCH			VN	-30	2.1	0.00120
		-20	4.92		0.00280	PASS	
		-10	0.74		0.00042	PASS	
		0	1.23		0.00070	PASS	
		10	0.62		0.00035	PASS	
		20	-0.46		-0.00026	PASS	
		30	-2.85		-0.00162	PASS	
		40	-3.29		-0.00188	PASS	
	3	LCH	VN	50	-2.19	-0.00125	PASS
				-30	0.4	0.00023	PASS
				-20	6.9	0.00403	PASS
				-10	6.92	0.00404	PASS
				0	3.13	0.00183	PASS
				10	0.33	0.00019	PASS
				20	-1.44	-0.00084	PASS
				30	0.89	0.00052	PASS
				40	-0.21	-0.00012	PASS
50				-0.33	-0.00019	PASS	

			MCH	VN	-30	3.49	0.00201	PASS	
					-20	4.05	0.00234	PASS	
					-10	4.38	0.00253	PASS	
					0	2.33	0.00134	PASS	
					10	-0.31	-0.00018	PASS	
					20	2.32	0.00134	PASS	
					30	0.9	0.00052	PASS	
					40	-1.19	-0.00069	PASS	
					50	-1.77	-0.00102	PASS	
			HCH	VN	-30	6.32	0.00360	PASS	
					-20	4.58	0.00261	PASS	
					-10	2.09	0.00119	PASS	
					0	4.16	0.00237	PASS	
					10	4.28	0.00244	PASS	
					20	3.86	0.00220	PASS	
					30	0.46	0.00026	PASS	
					40	3.58	0.00204	PASS	
					50	2.92	0.00167	PASS	
			5	LCH	VN	-30	5.46	0.00319	PASS
						-20	2.59	0.00151	PASS
						-10	1.59	0.00093	PASS
						0	-0.63	-0.00037	PASS
						10	1.03	0.00060	PASS
						20	-1.42	-0.00083	PASS
						30	-2.65	-0.00155	PASS
						40	-1.97	-0.00115	PASS
						50	-1.56	-0.00091	PASS
				MCH	VN	-30	1.63	0.00094	PASS
						-20	0.89	0.00051	PASS
						-10	2.07	0.00119	PASS
						0	-1.79	-0.00103	PASS
						10	-1.02	-0.00059	PASS
						20	-3.36	-0.00194	PASS
						30	-2.9	-0.00167	PASS
						40	-1.52	-0.00088	PASS
						50	-0.49	-0.00028	PASS
			HCH	VN	-30	2.59	0.00148	PASS	
					-20	1	0.00057	PASS	
					-10	-0.26	-0.00015	PASS	
					0	0.82	0.00047	PASS	
					10	-2.29	-0.00131	PASS	



				20	-0.6	-0.00034	PASS		
				30	0.97	0.00055	PASS		
				40	-2.46	-0.00140	PASS		
				50	-0.2	-0.00011	PASS		
		10	LCH	VN	-30	5.58	0.00325	PASS	
					-20	1.24	0.00072	PASS	
					-10	-4.69	-0.00273	PASS	
					0	1.67	0.00097	PASS	
					10	2.93	0.00171	PASS	
					20	-1.52	-0.00089	PASS	
				MCH	VN	30	-3.26	-0.00190	PASS
			40			-0.97	-0.00057	PASS	
			50			-1.04	-0.00061	PASS	
			-30			2.55	0.00147	PASS	
			-20			-2.6	-0.00150	PASS	
			-10			-0.23	-0.00013	PASS	
		0	2.03			0.00117	PASS		
		10	-2.92			-0.00169	PASS		
			HCH	VN	20	-3.32	-0.00192	PASS	
		30			-2.82	-0.00163	PASS		
		40			-2.93	-0.00169	PASS		
		50			-2.93	-0.00169	PASS		
		-30			2.37	0.00135	PASS		
		-20			1.39	0.00079	PASS		
		-10			0.63	0.00036	PASS		
		0			0.34	0.00019	PASS		
			15	LCH	VN	10	-0.92	-0.00053	PASS
		20				0.5	0.00029	PASS	
		30				-3.5	-0.00200	PASS	
		40				-1.65	-0.00094	PASS	
		50				0.39	0.00022	PASS	
		-30				1.02	0.00059	PASS	
		-20				-2.5	-0.00146	PASS	
		-10				-1.53	-0.00089	PASS	
		0				-4.49	-0.00261	PASS	
		10		0.07	0.00004	PASS			
			MCH	VN	20	-3.92	-0.00228	PASS	
		30			-3.03	-0.00176	PASS		
					40	-2.13	-0.00124	PASS	
					50	-3.86	-0.00223	PASS	
					-30	6.49	0.00375	PASS	

					-20	0.94	0.00054	PASS		
					-10	1.23	0.00071	PASS		
					0	-1.14	-0.00066	PASS		
					10	-1.56	-0.00090	PASS		
					20	1.46	0.00084	PASS		
					30	3.63	0.00210	PASS		
					40	1.46	0.00084	PASS		
					50	-0.1	-0.00006	PASS		
					HCH	VN	-30	2.3	0.00132	PASS
							-20	22.69	0.01298	PASS
							-10	13.26	0.00759	PASS
							0	3.75	0.00215	PASS
							10	8.58	0.00491	PASS
							20	5.66	0.00324	PASS
							30	23.23	0.01329	PASS
		40	-6.28	-0.00359			PASS			
		LCH	VN	50	16.01	0.00916	PASS			
				-30	-5.21	-0.00303	PASS			
				-20	-4.61	-0.00268	PASS			
				-10	2.99	0.00174	PASS			
				0	3.35	0.00195	PASS			
				10	0.86	0.00050	PASS			
				20	-0.66	-0.00038	PASS			
				30	2.23	0.00130	PASS			
		MCH	VN	40	-3.4	-0.00198	PASS			
				50	1.5	0.00087	PASS			
				-30	4.39	0.00253	PASS			
				-20	2.73	0.00158	PASS			
				-10	-0.29	-0.00017	PASS			
				0	2.89	0.00167	PASS			
				10	4.38	0.00253	PASS			
				20	1.57	0.00091	PASS			
		HCH	VN	30	-1.14	-0.00066	PASS			
				40	0.16	0.00009	PASS			
				50	0.67	0.00039	PASS			
				-30	0.82	0.00047	PASS			
				-20	-2.03	-0.00116	PASS			
				-10	-0.3	-0.00017	PASS			
				0	0.43	0.00025	PASS			
				10	1.23	0.00070	PASS			
		20	0.94	0.00054	PASS					



					30	4.52	0.00259	PASS
					40	-1.13	-0.00065	PASS
					50	1.29	0.00074	PASS

END