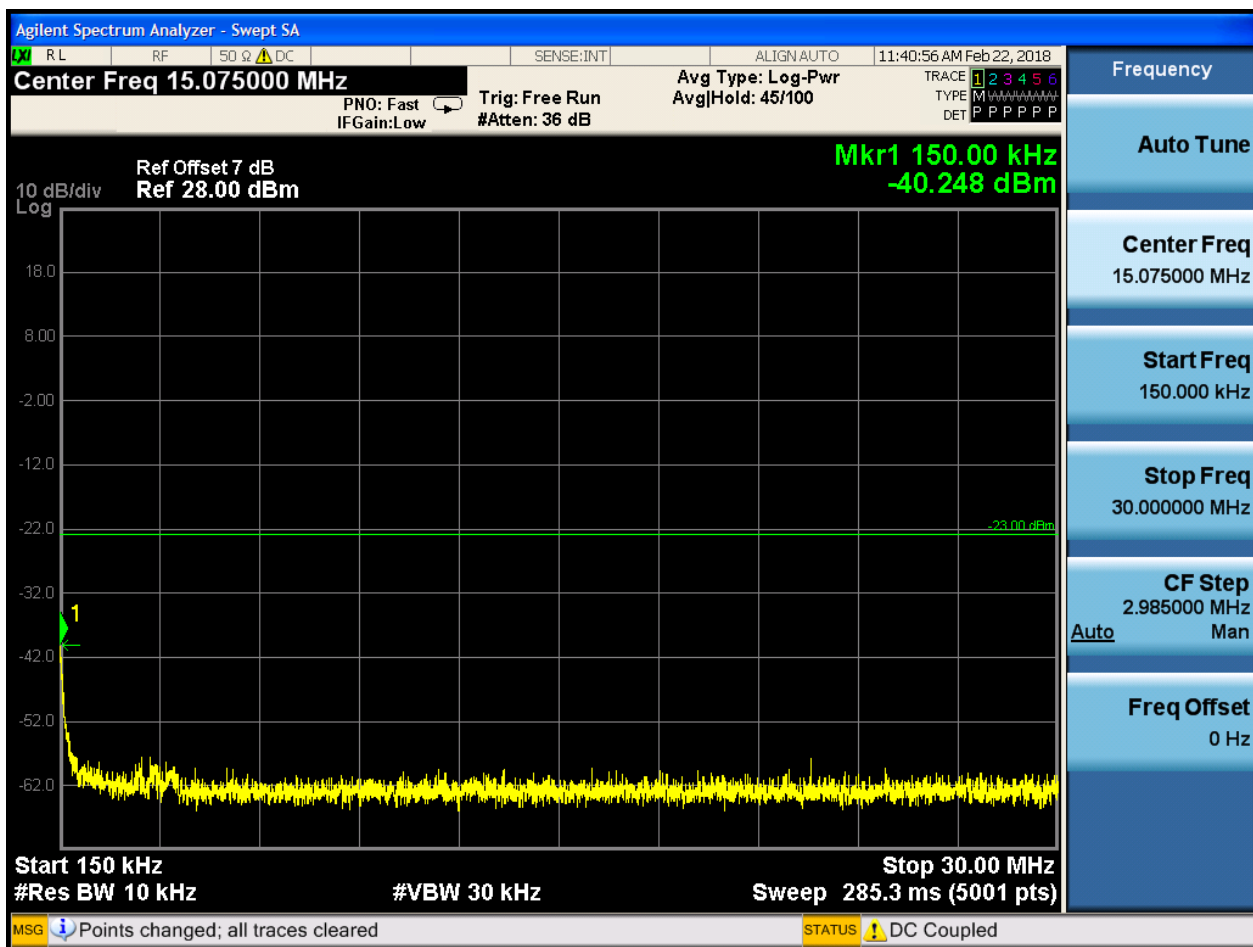
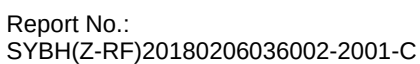
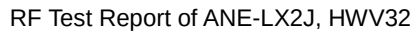
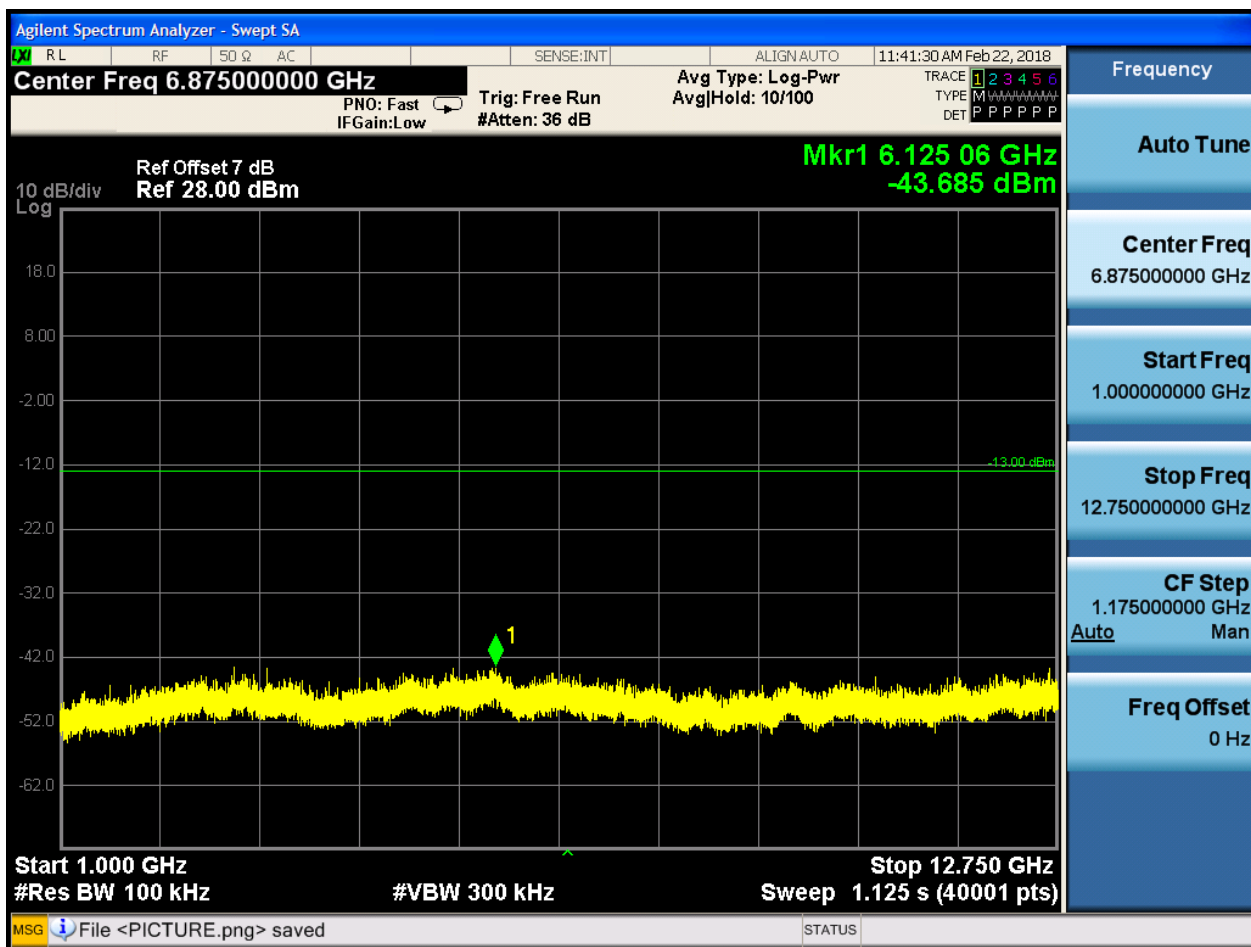






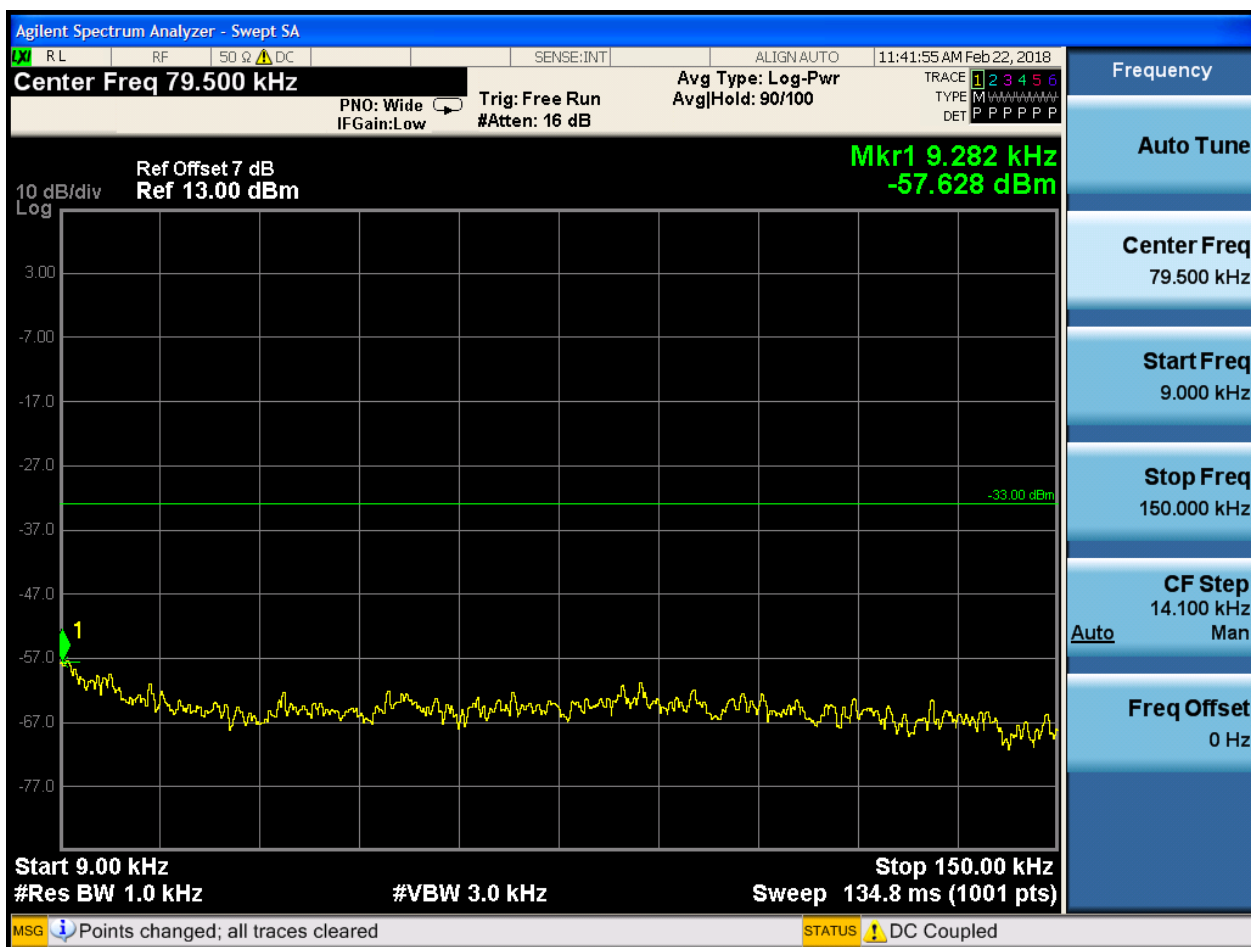


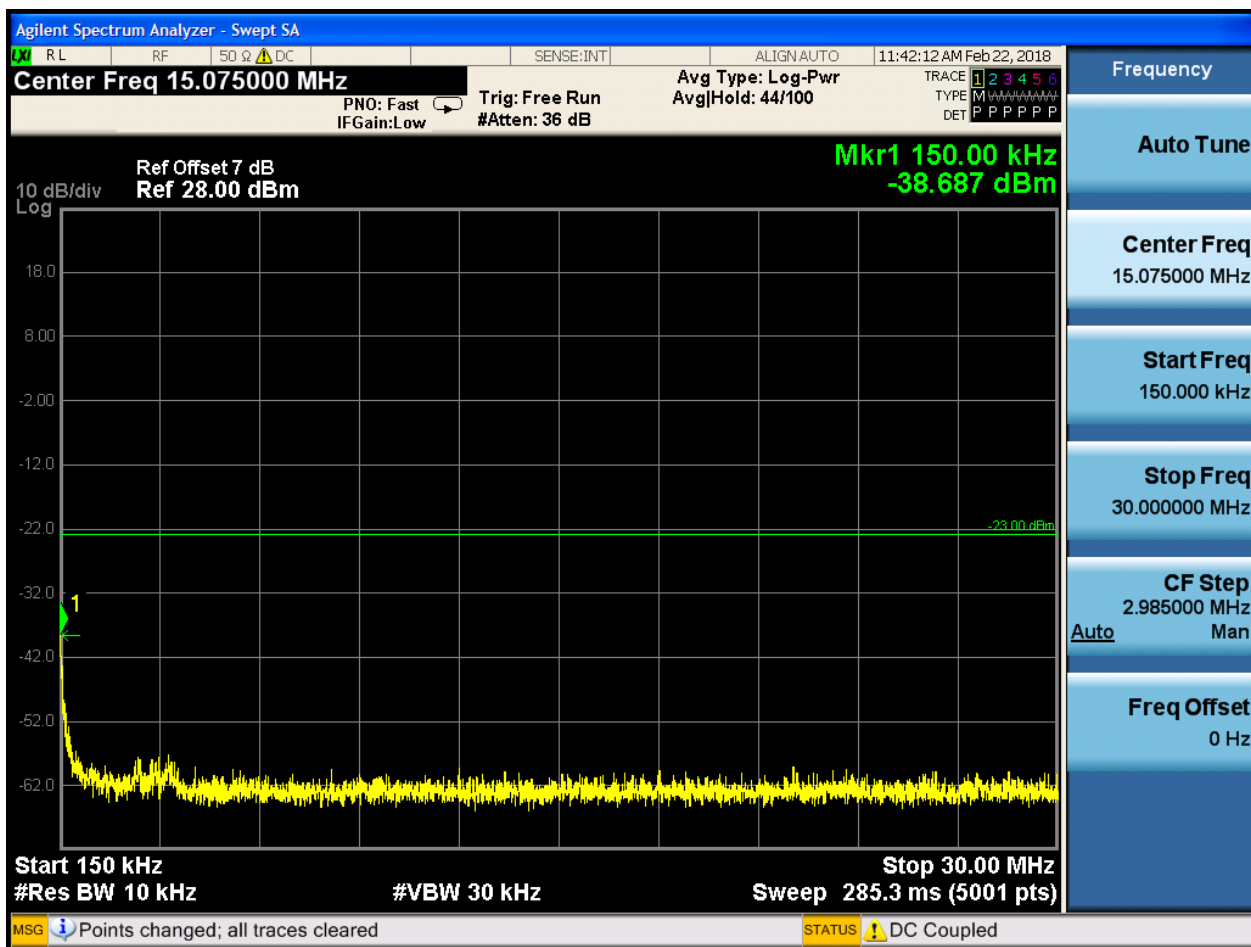


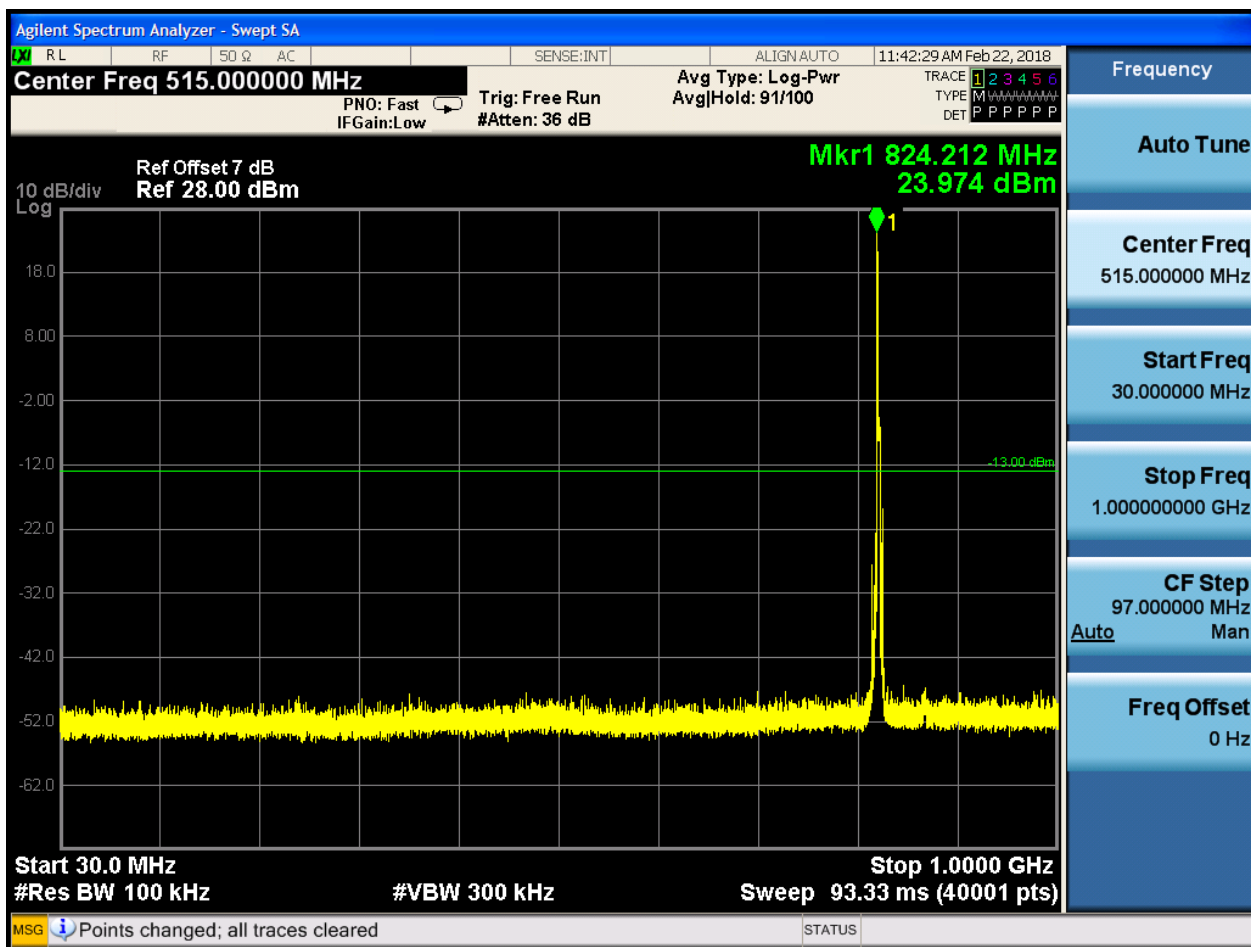
6.2.1.1.2 Test Bandwidth = 3

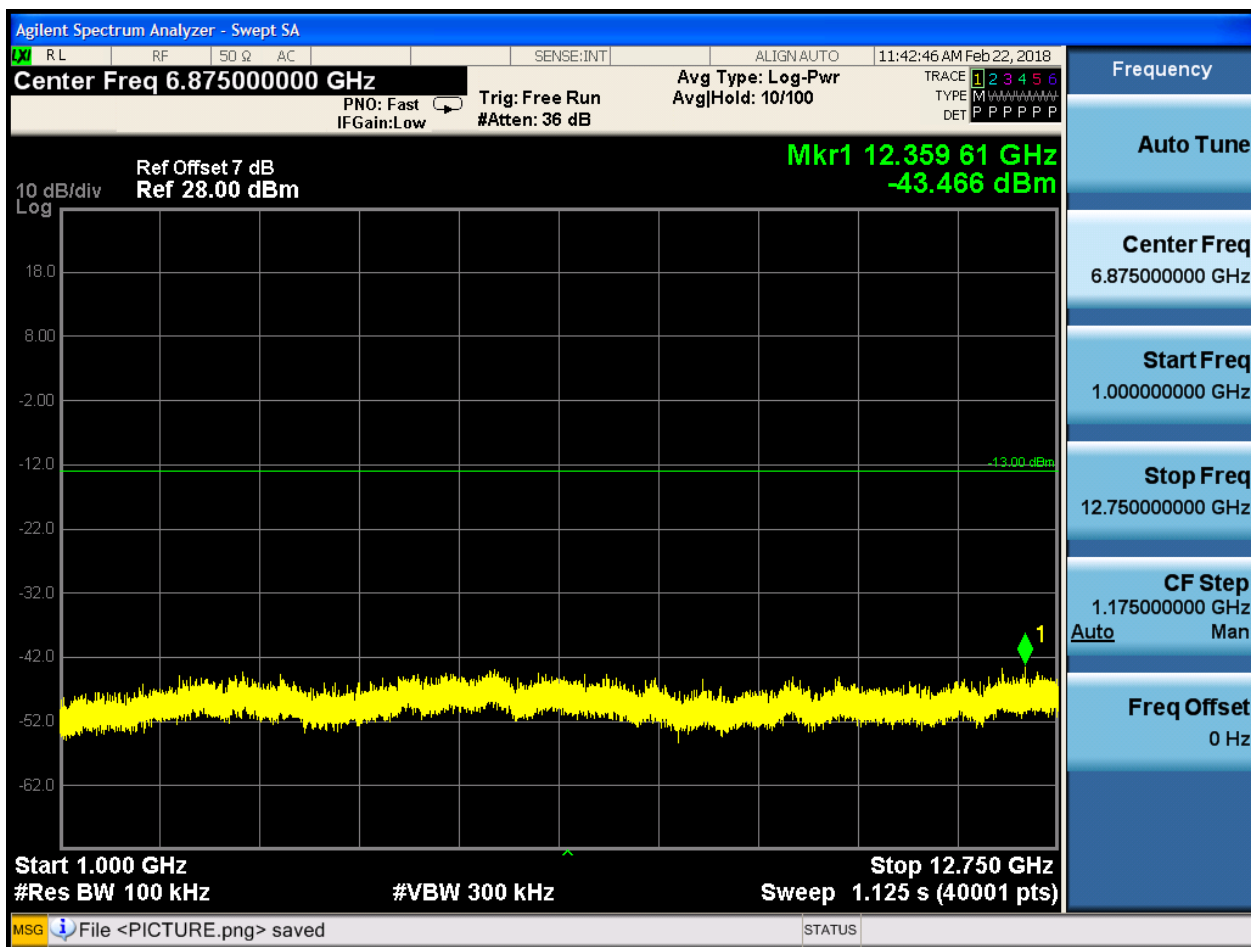
6.2.1.1.2.1 Test Channel = LCH

6.2.1.1.2.1.1 Test RB = RB1#0



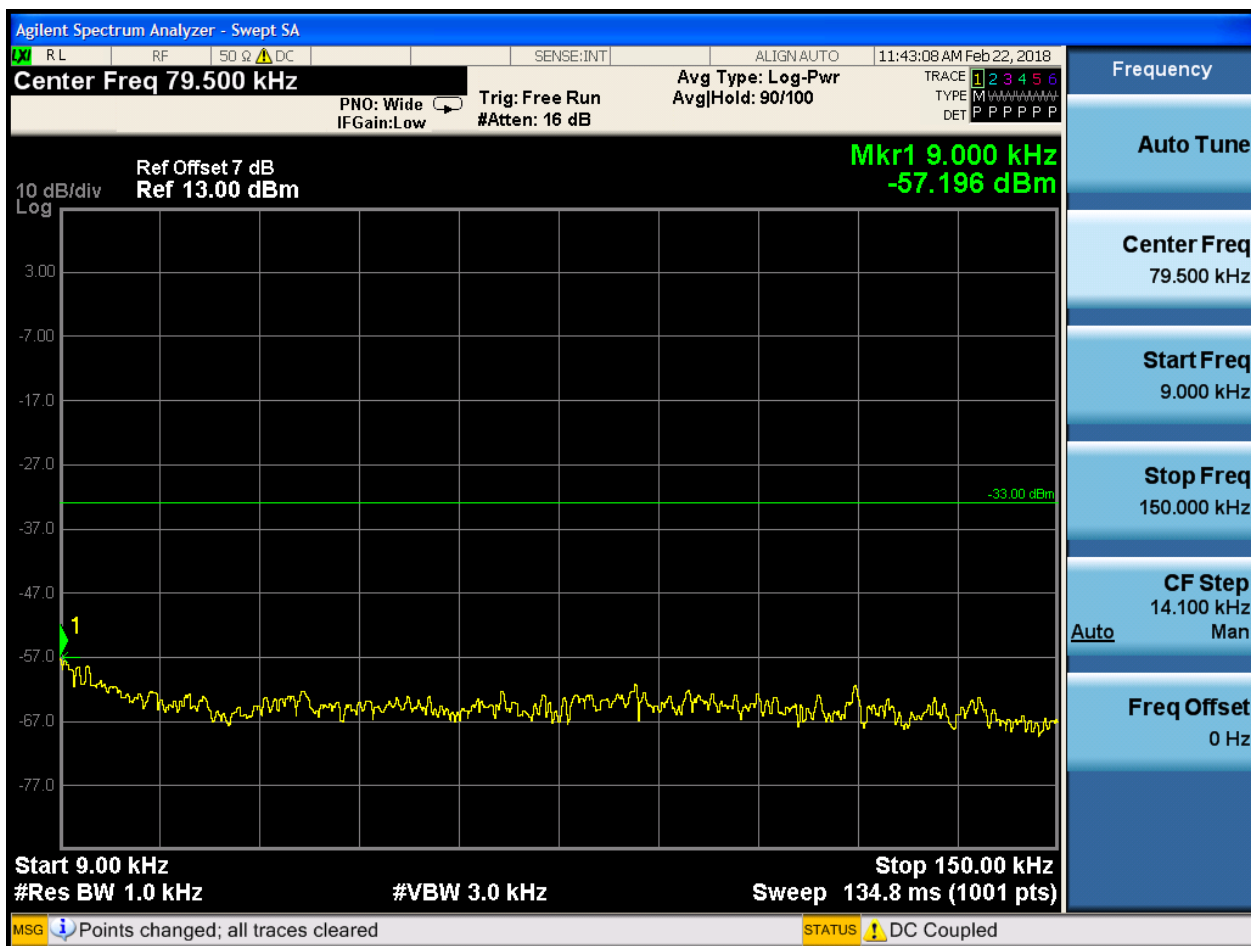


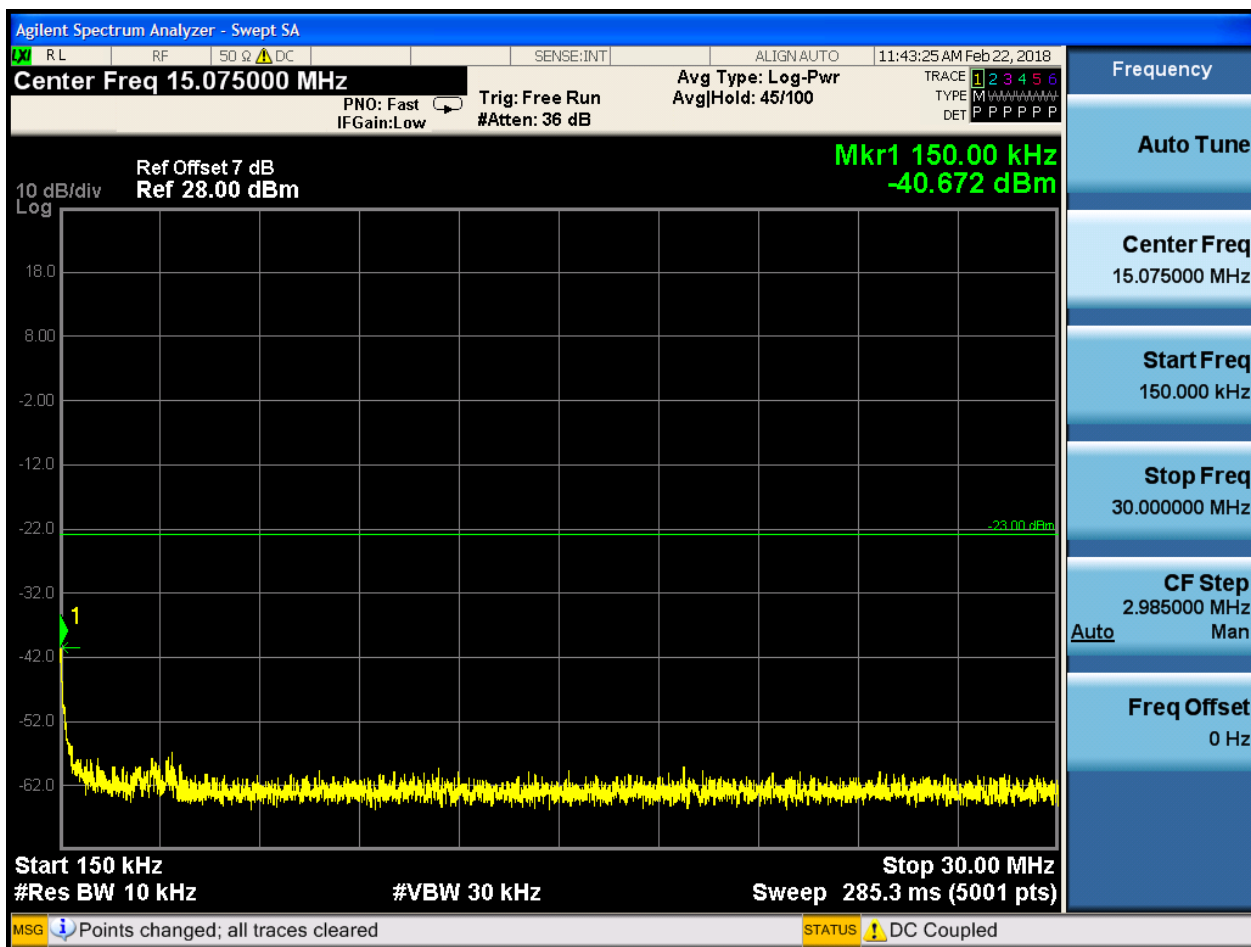
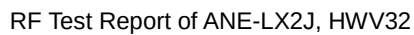


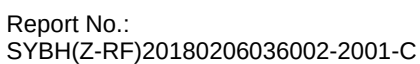
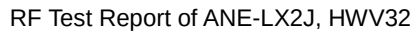


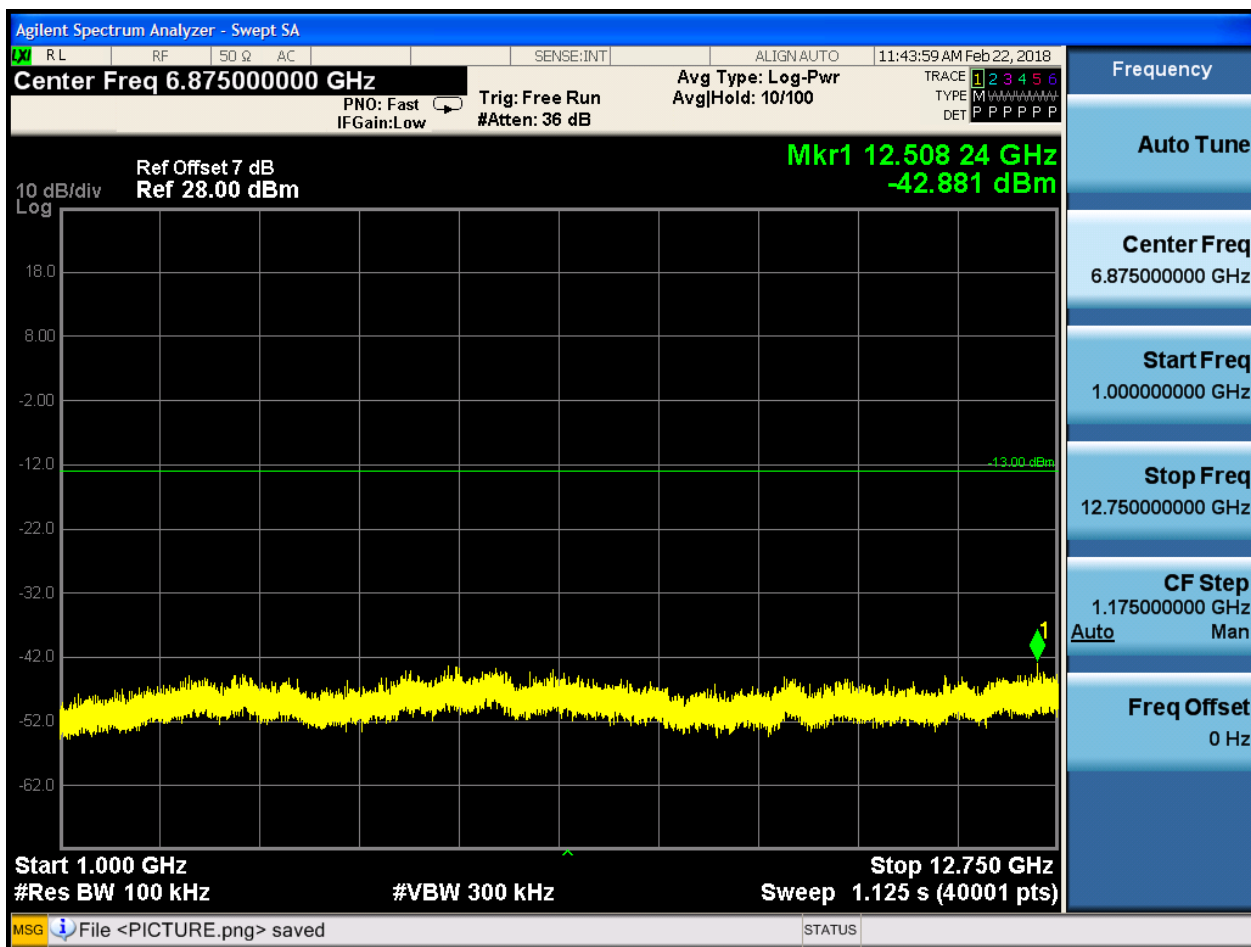
6.2.1.1.2.2 Test Channel = MCH

6.2.1.1.2.2.1 Test RB = RB1#0





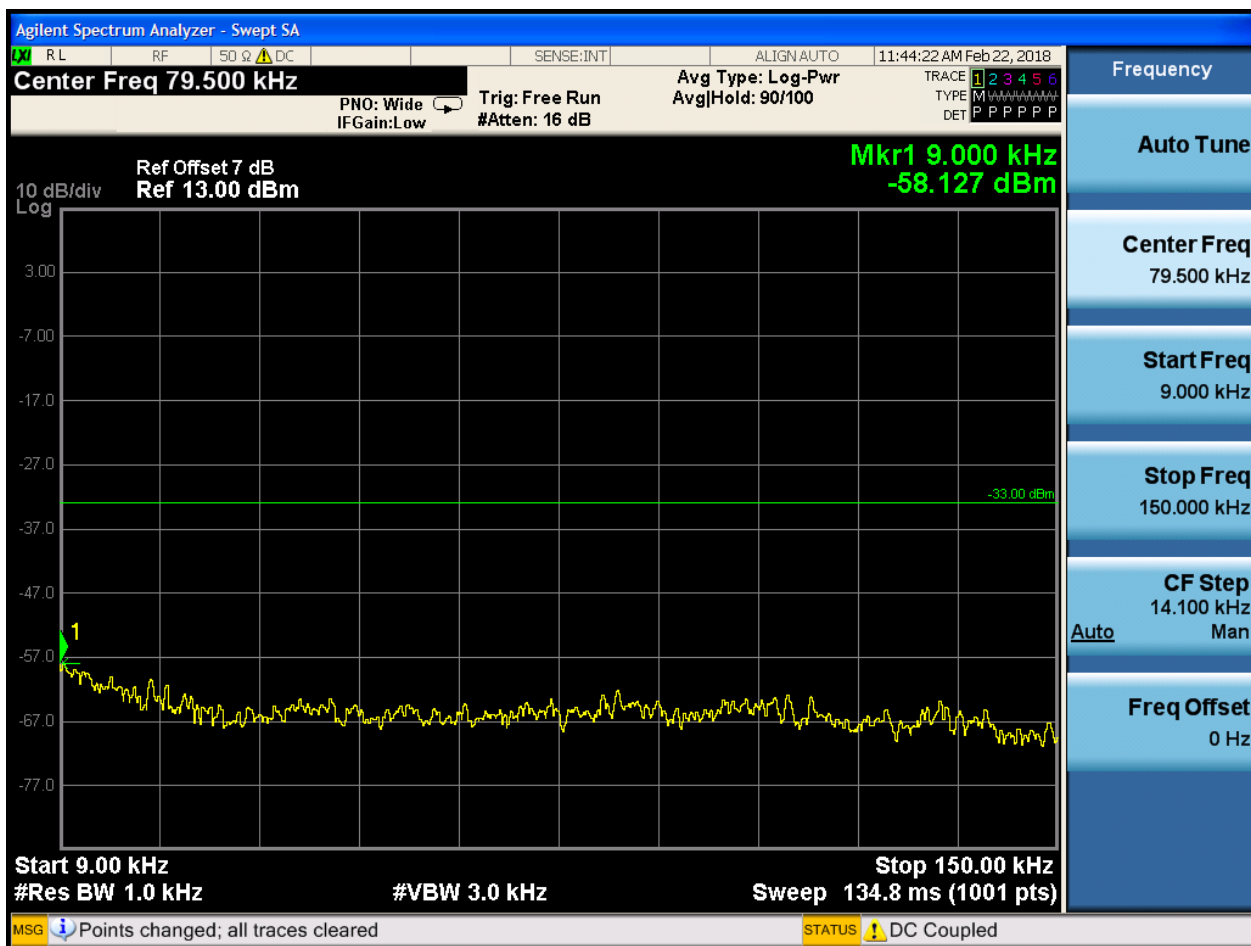


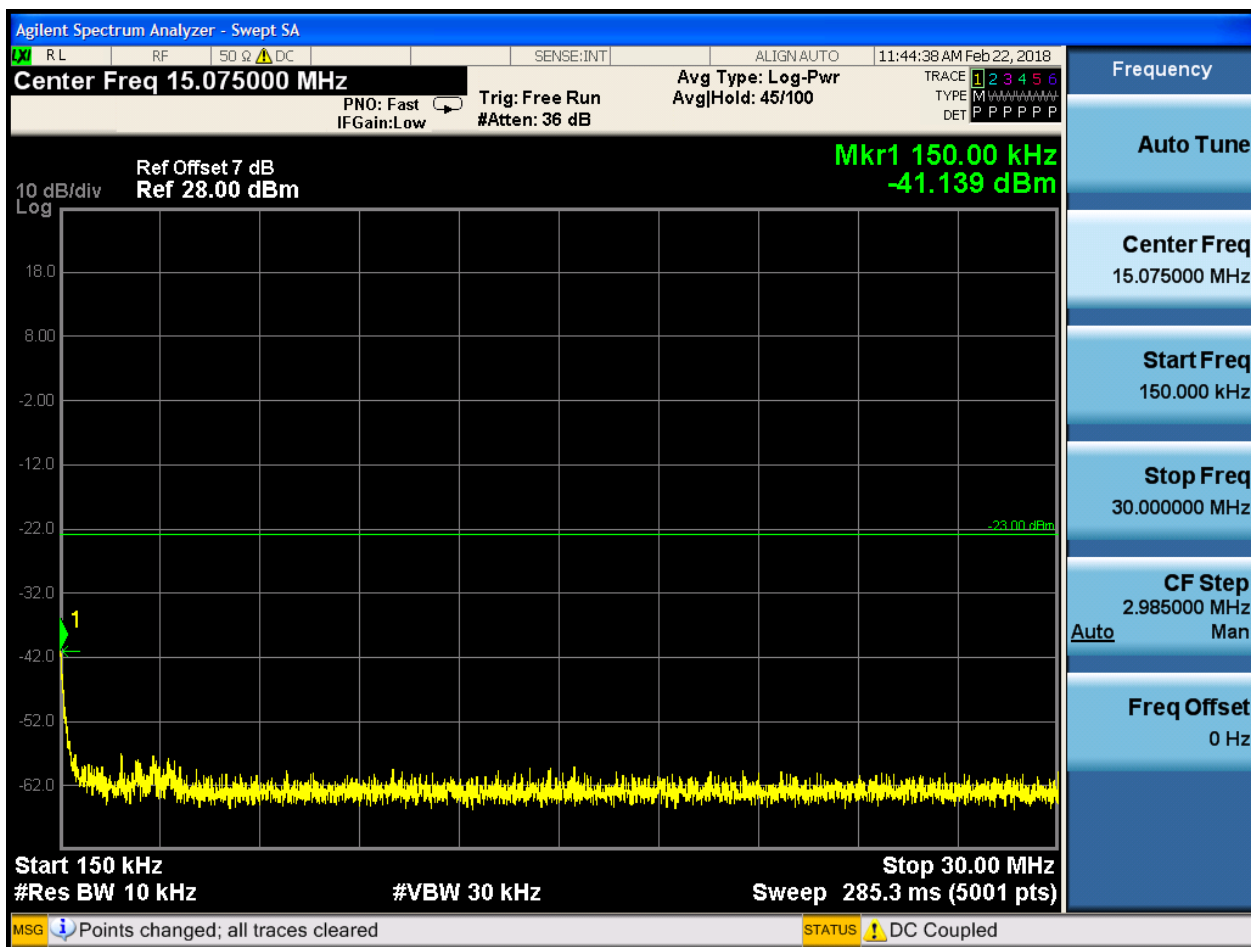


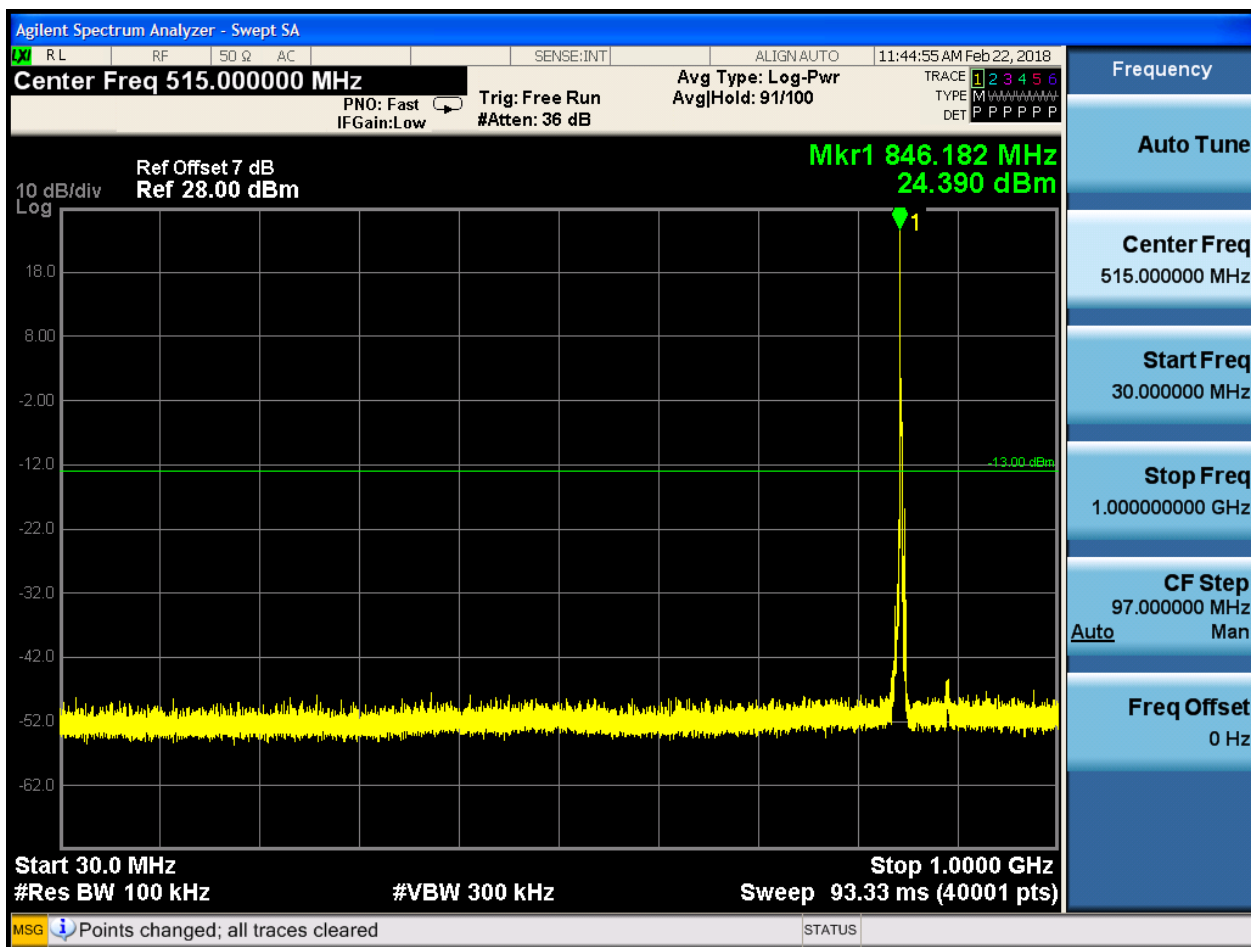


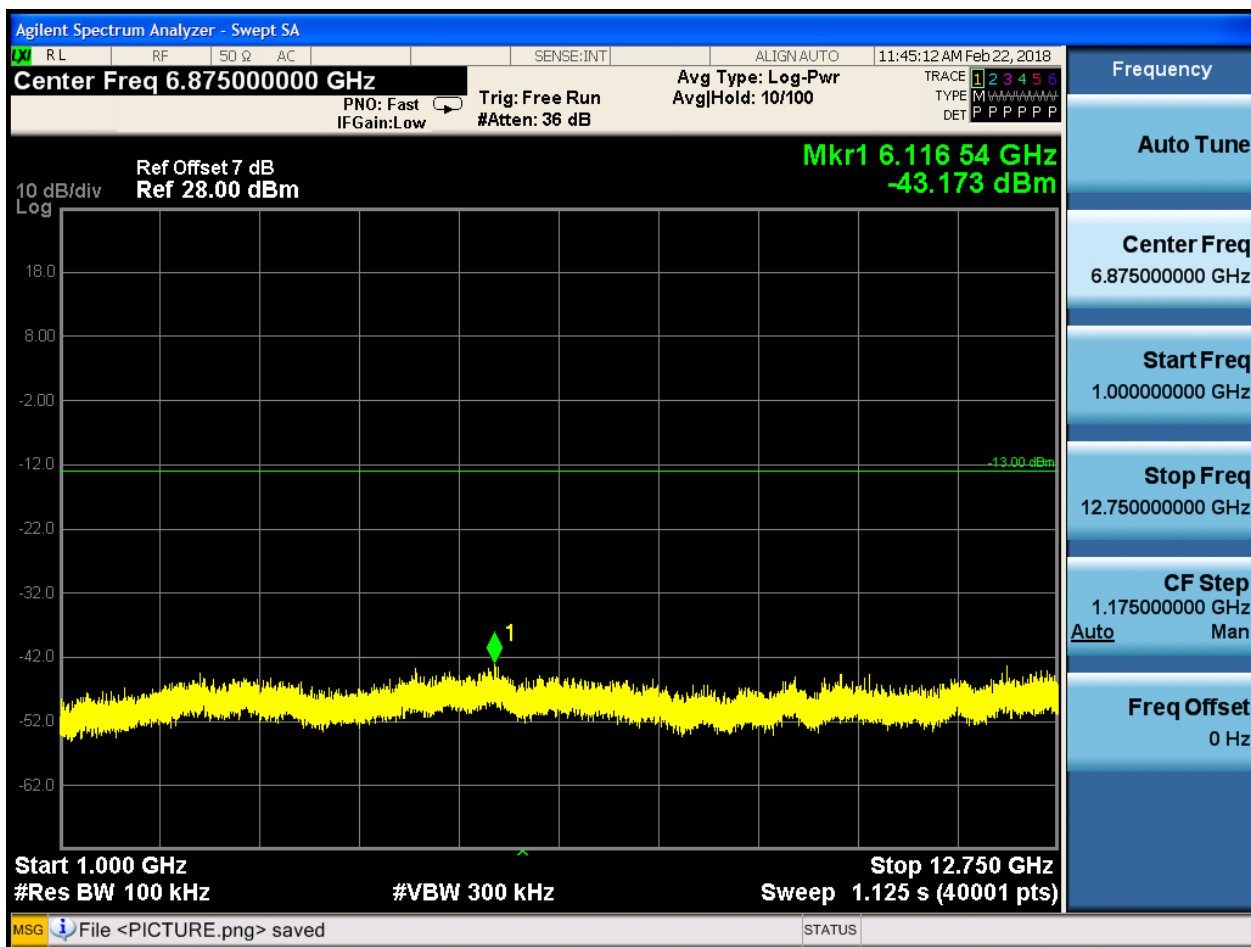
6.2.1.1.2.3 Test Channel = HCH

6.2.1.1.2.3.1 Test RB = RB1#0





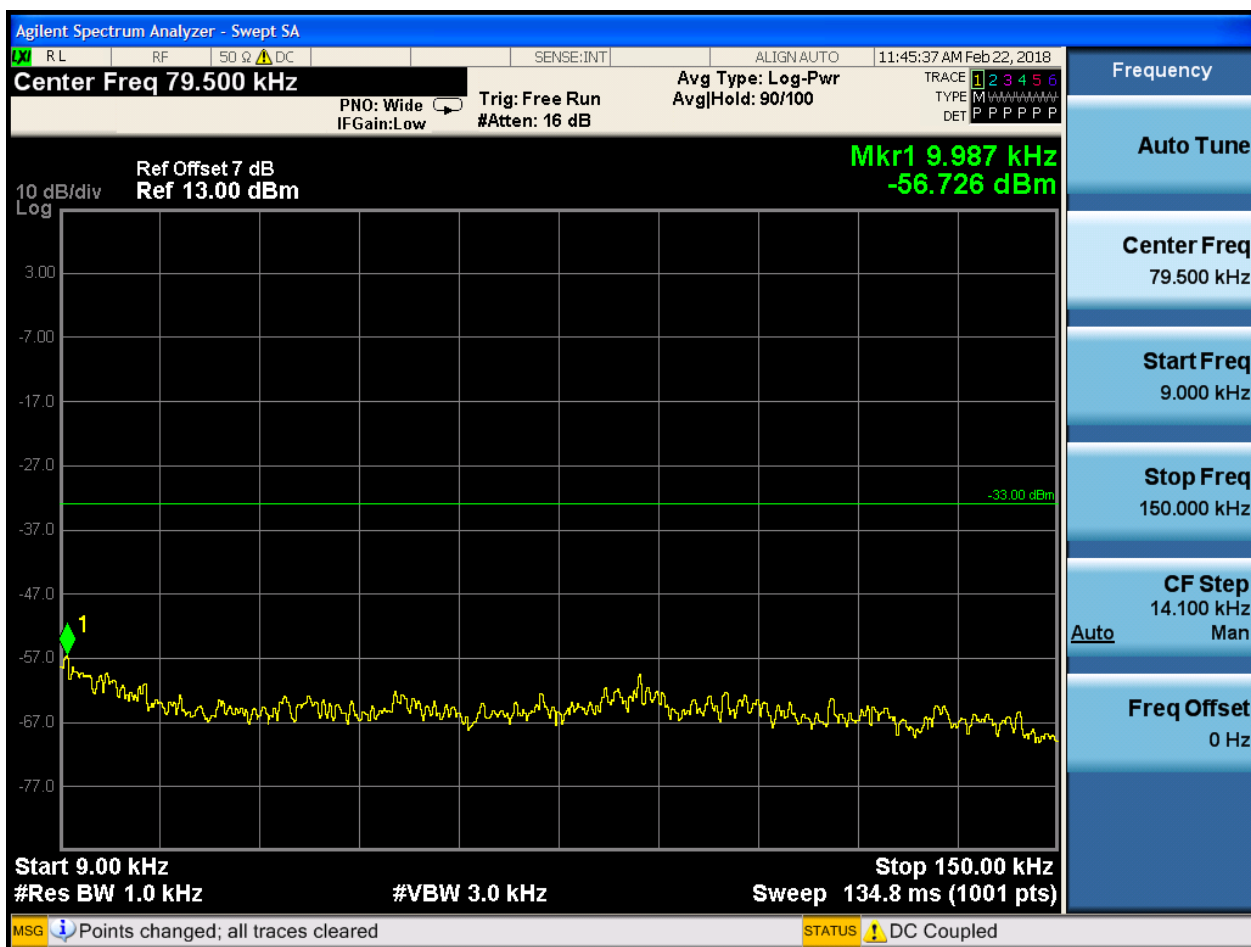


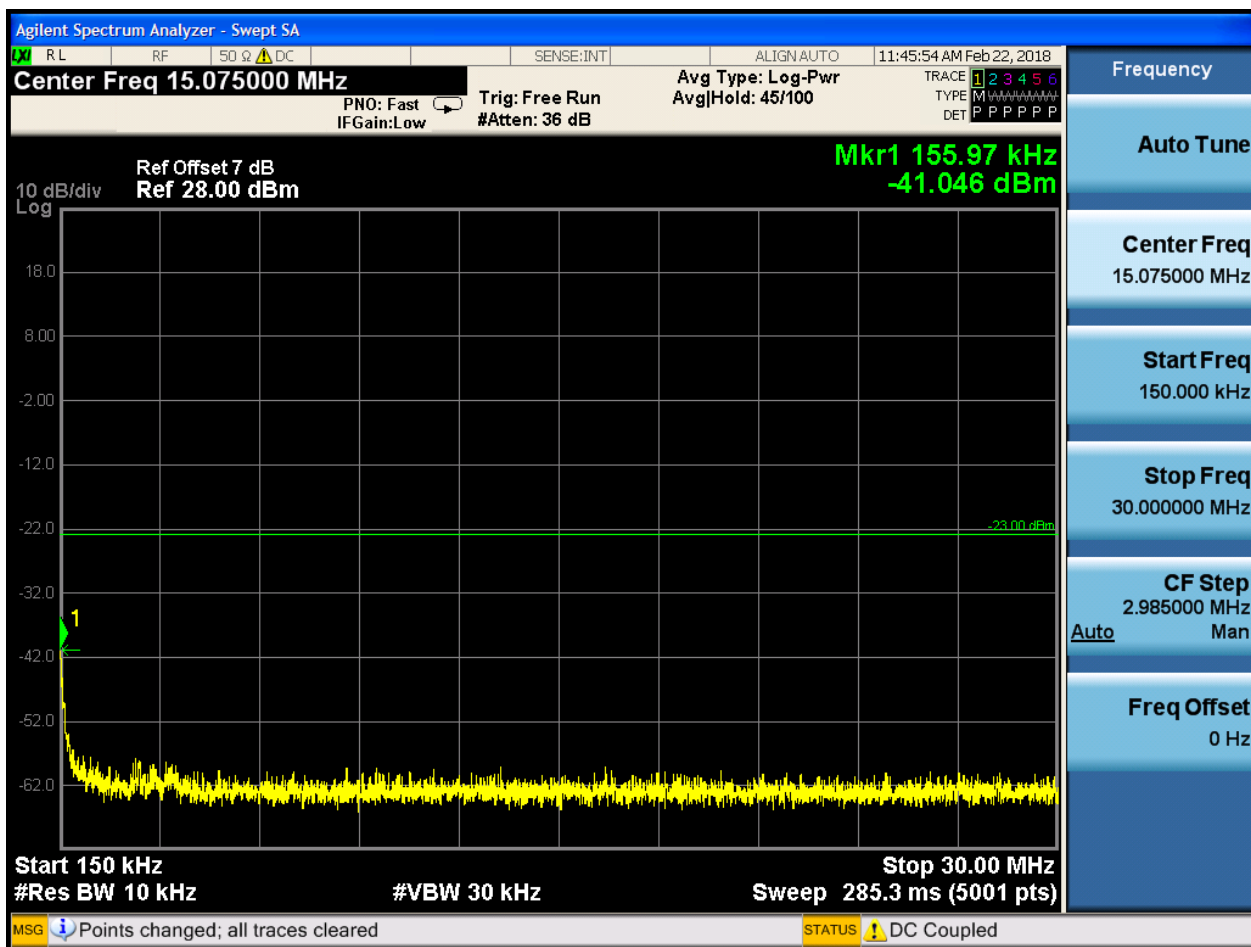


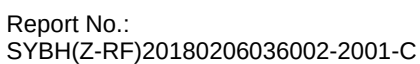
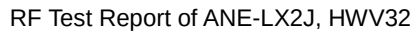
6.2.1.1.3 Test Bandwidth = 5

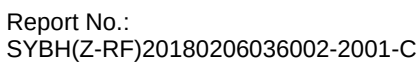
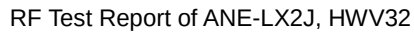
6.2.1.1.3.1 Test Channel = LCH

6.2.1.1.3.1.1 Test RB = RB1#0



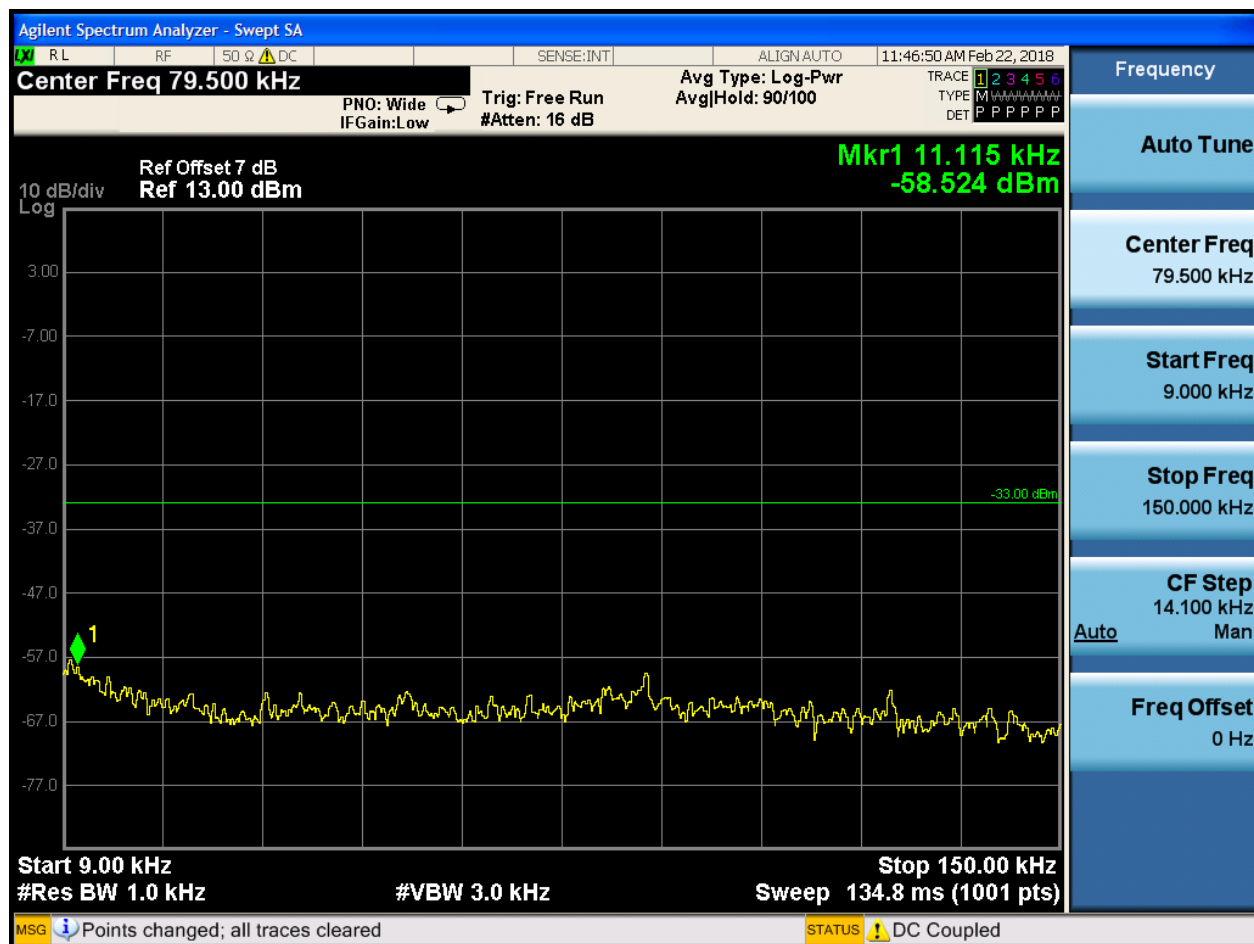


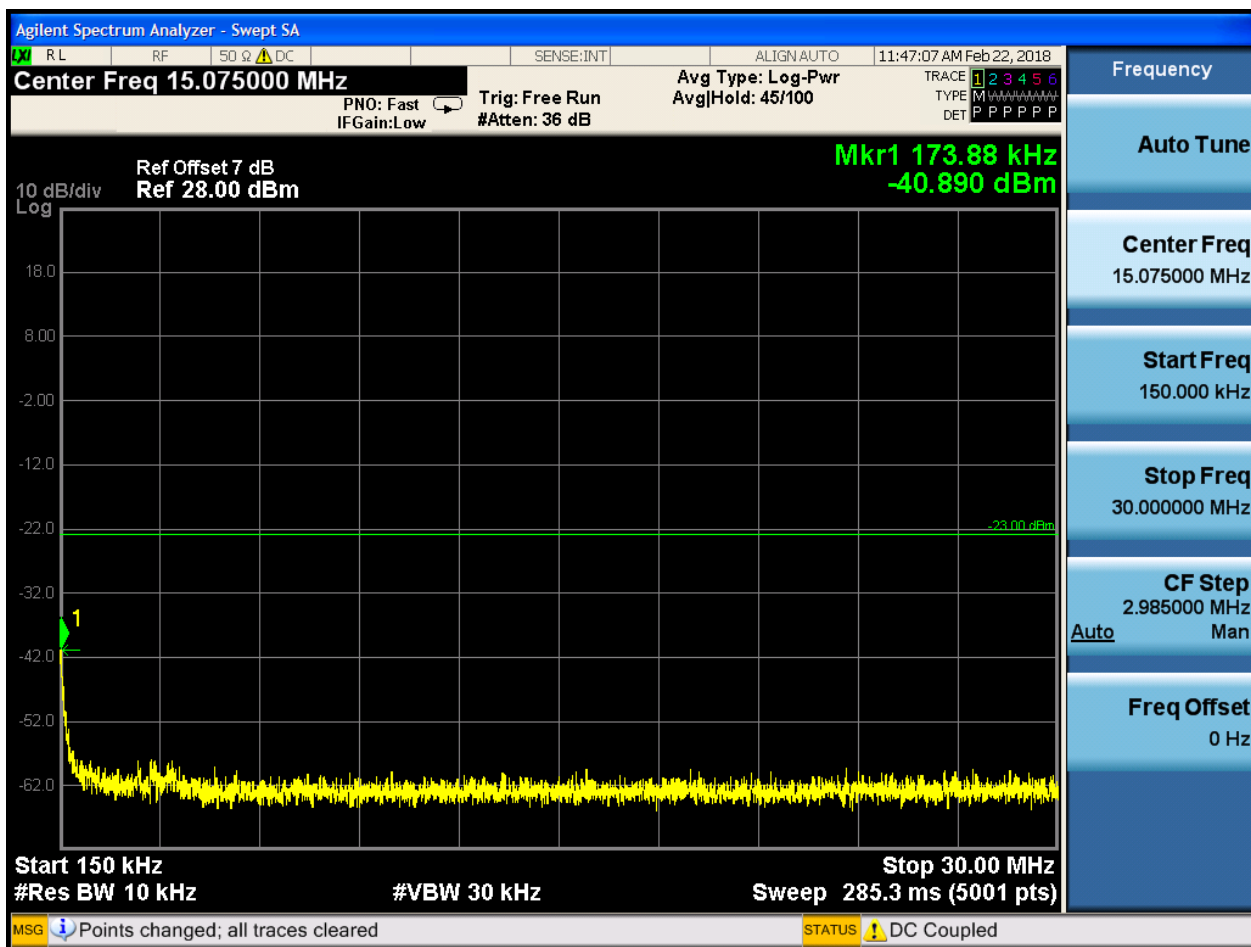


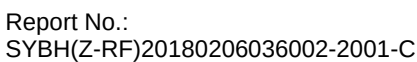


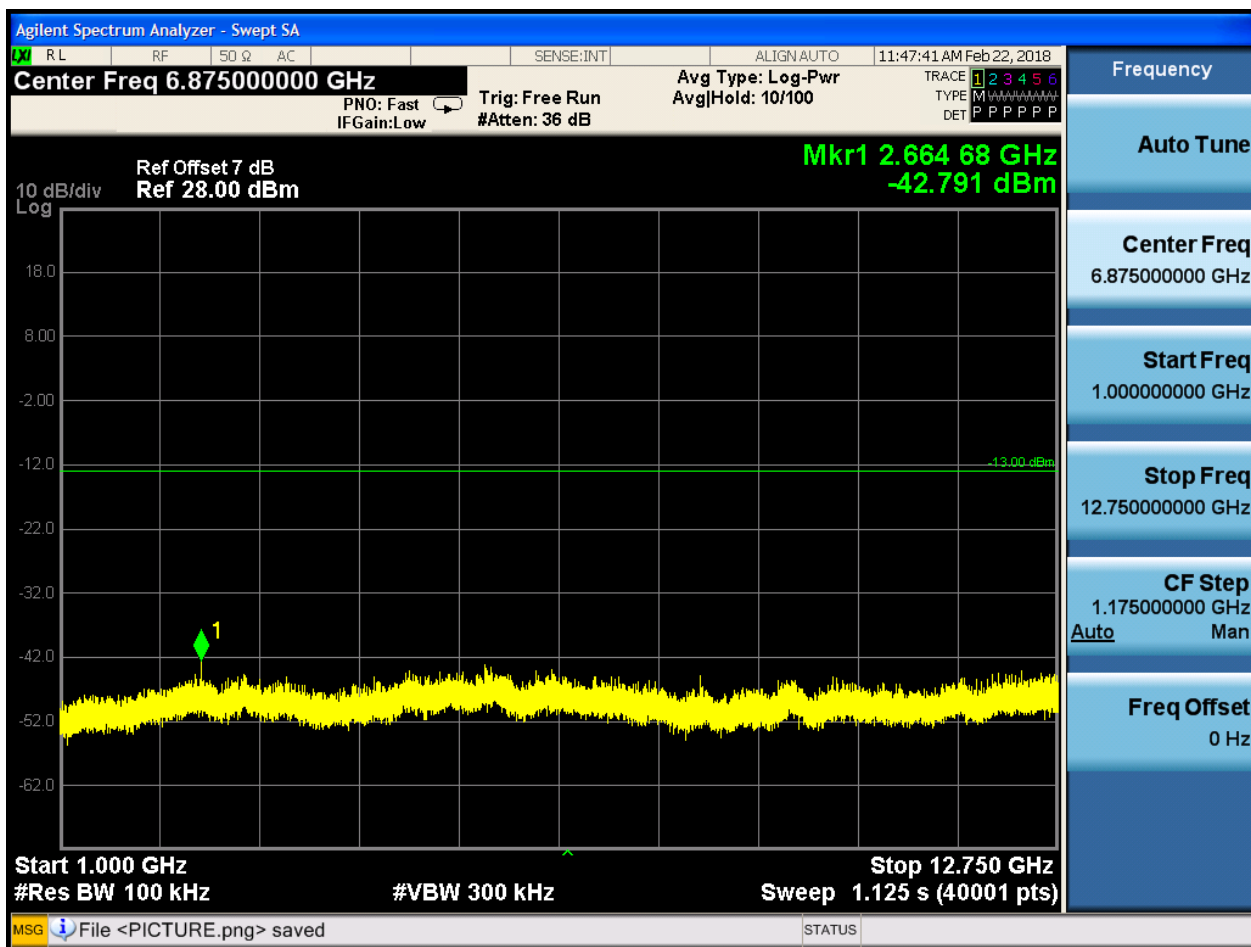
6.2.1.1.3.2 Test Channel = MCH

6.2.1.1.3.2.1 Test RB = RB1#0





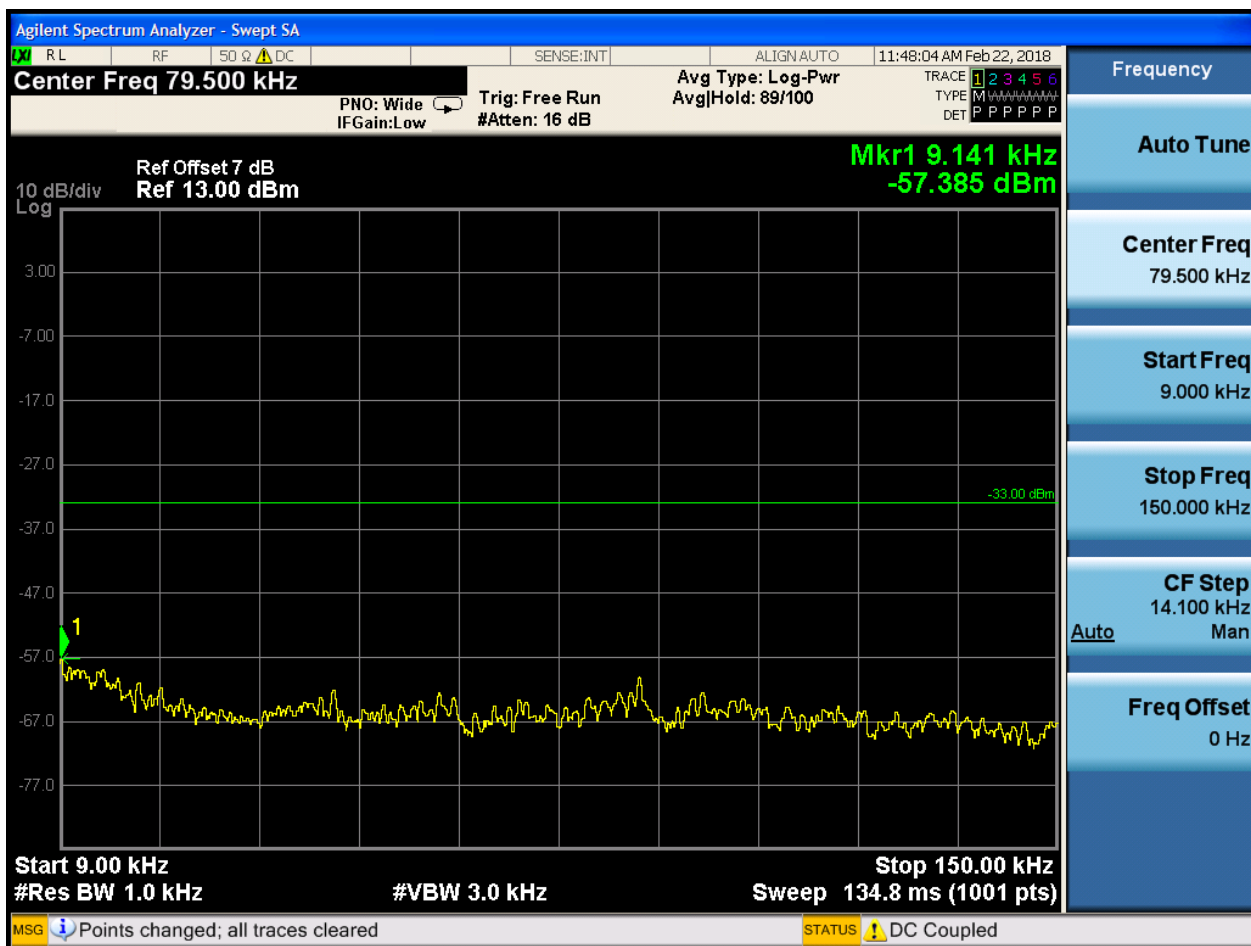


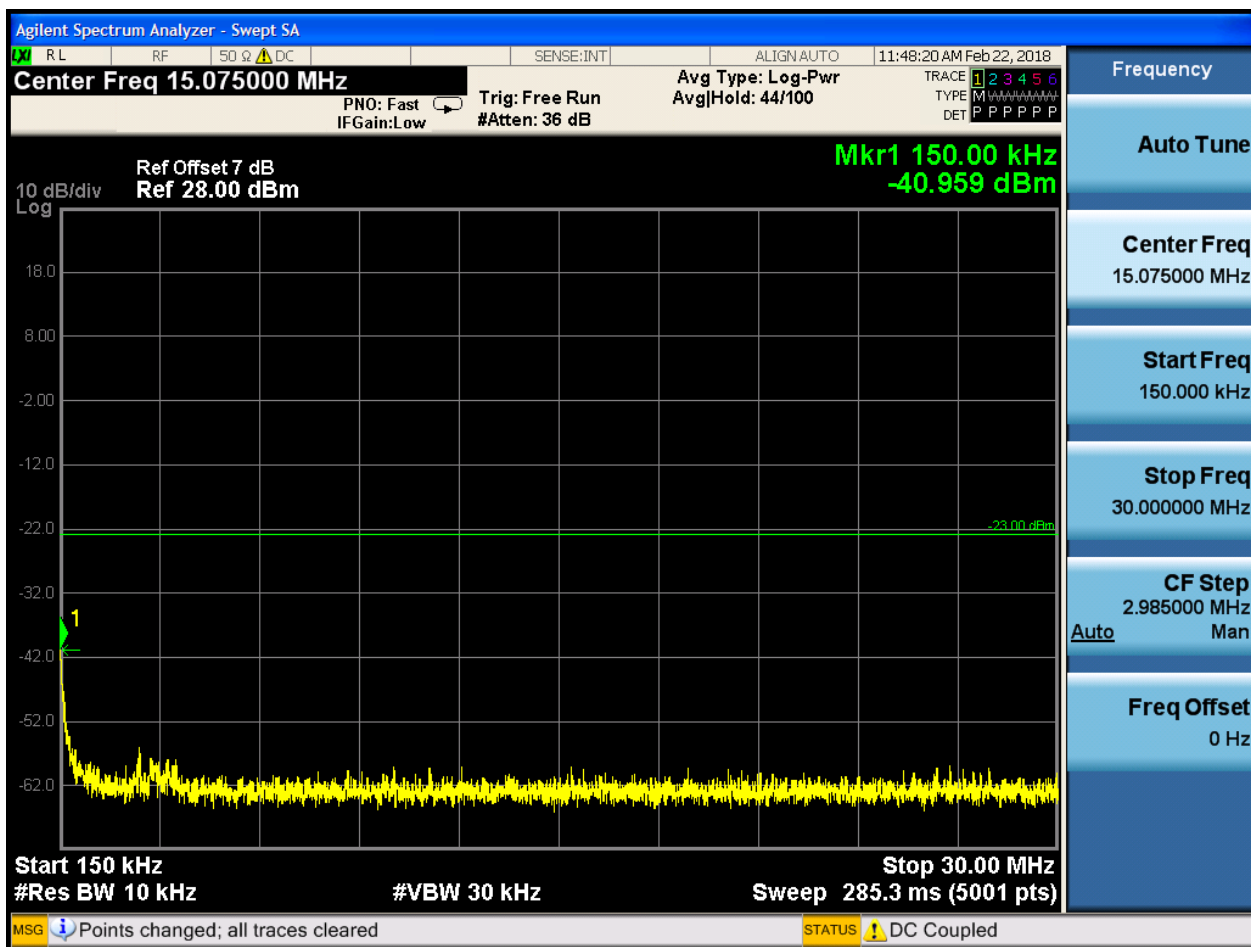


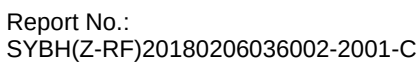
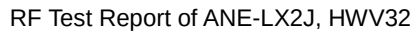


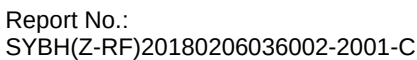
6.2.1.1.3.3 Test Channel = HCH

6.2.1.1.3.3.1 Test RB = RB1#0





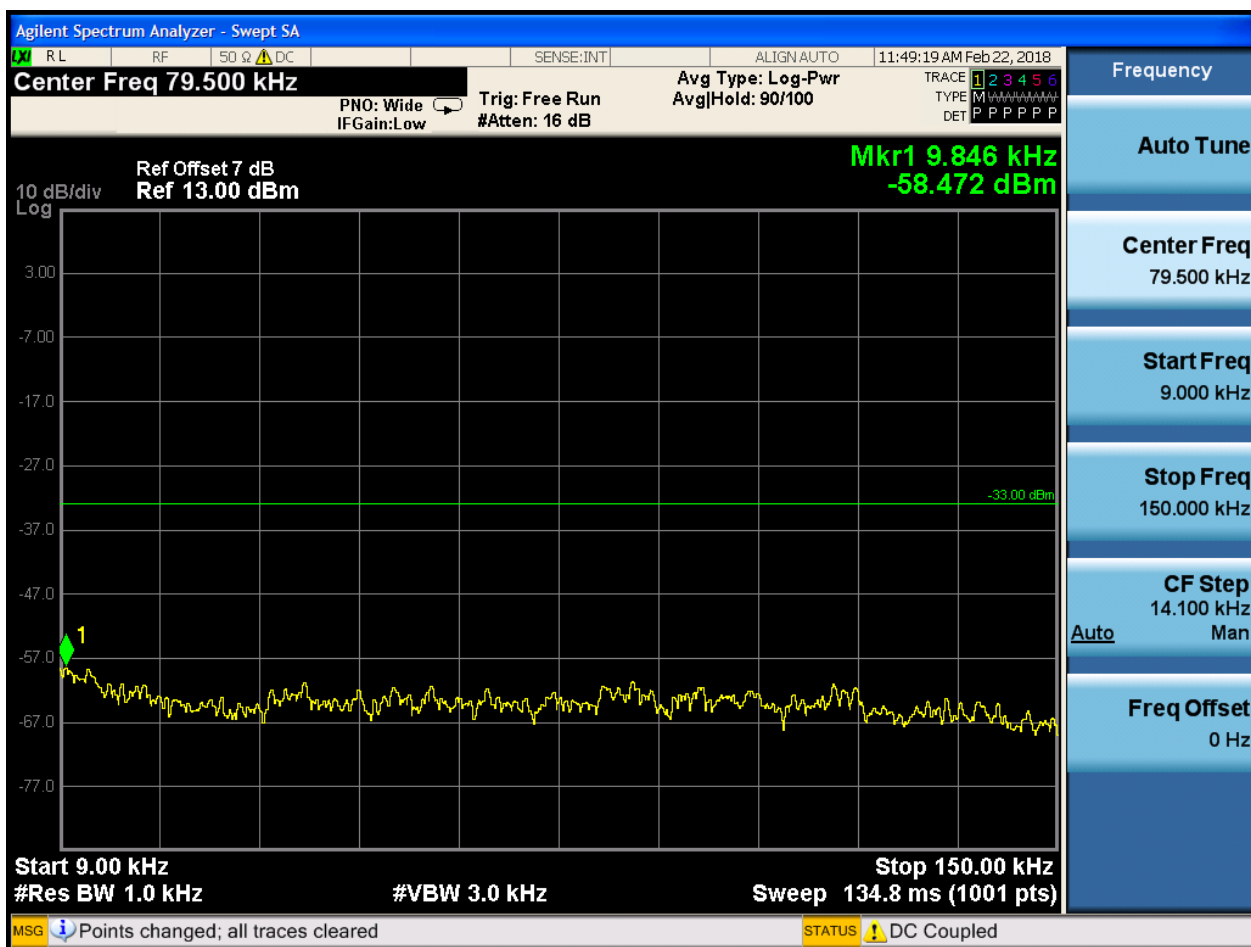


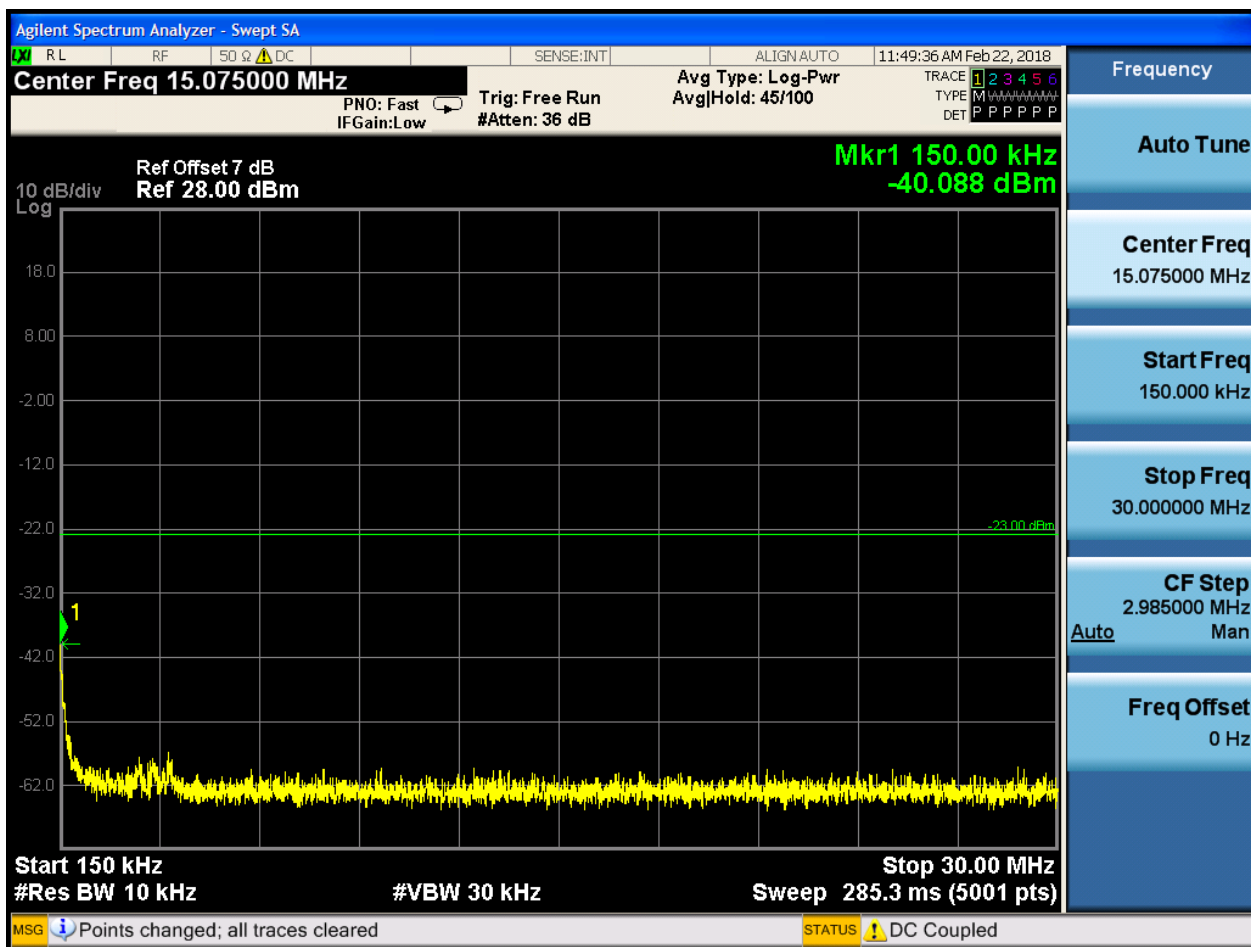


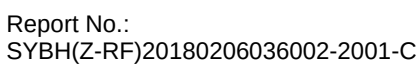
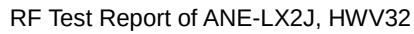
6.2.1.1.4 Test Bandwidth = 10

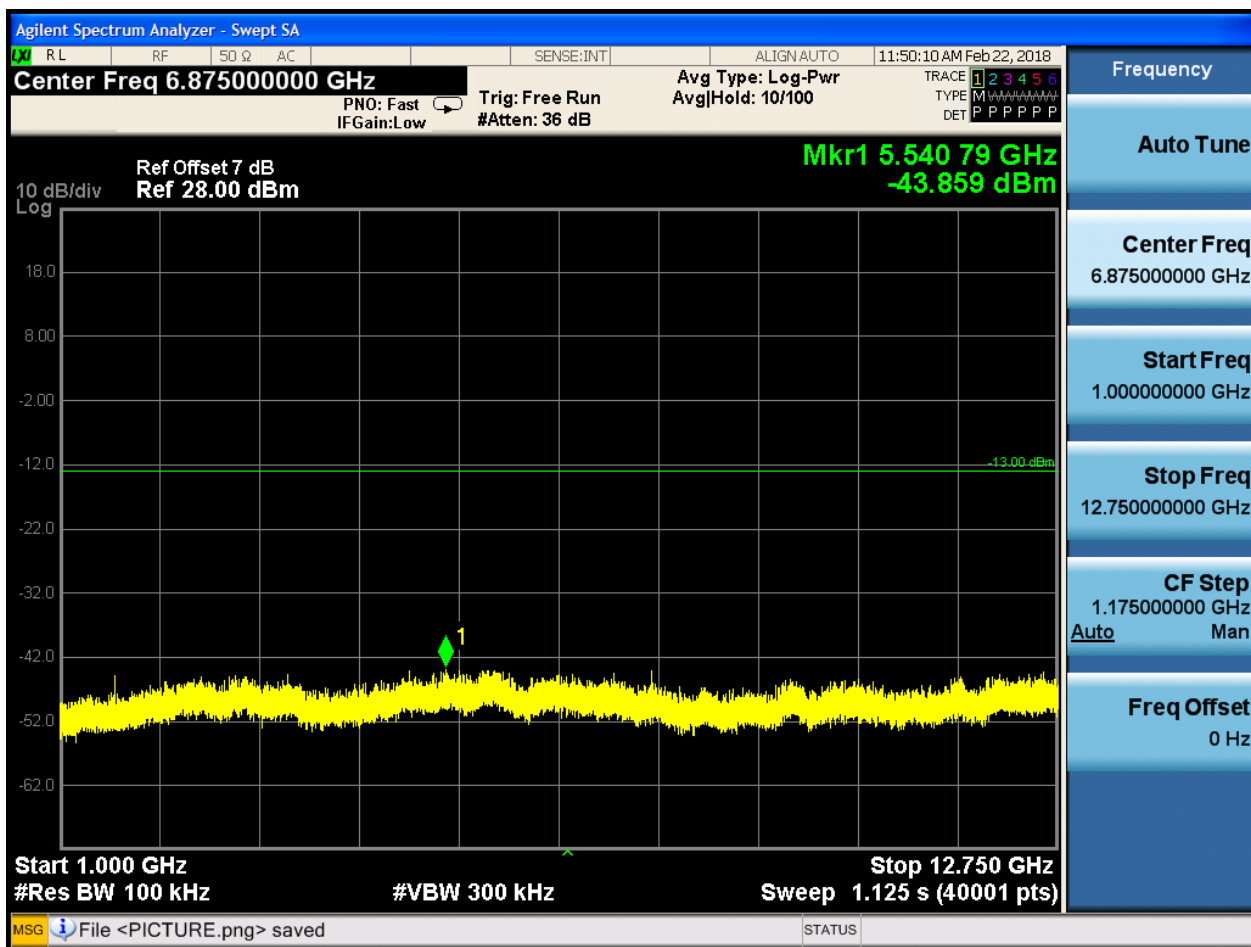
6.2.1.1.4.1 Test Channel = LCH

6.2.1.1.4.1.1 Test RB = RB1#0



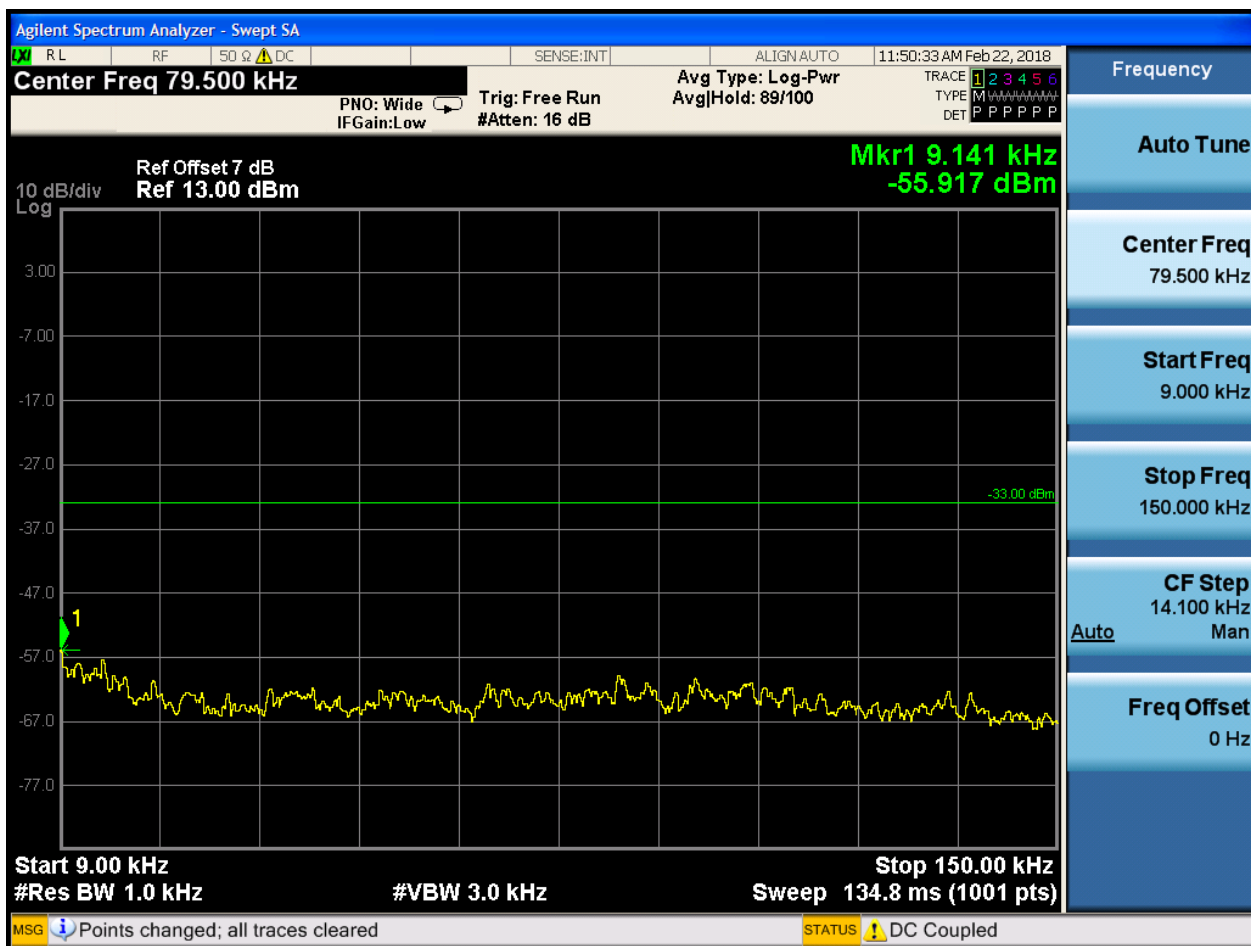


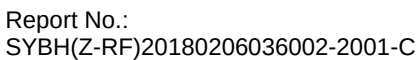


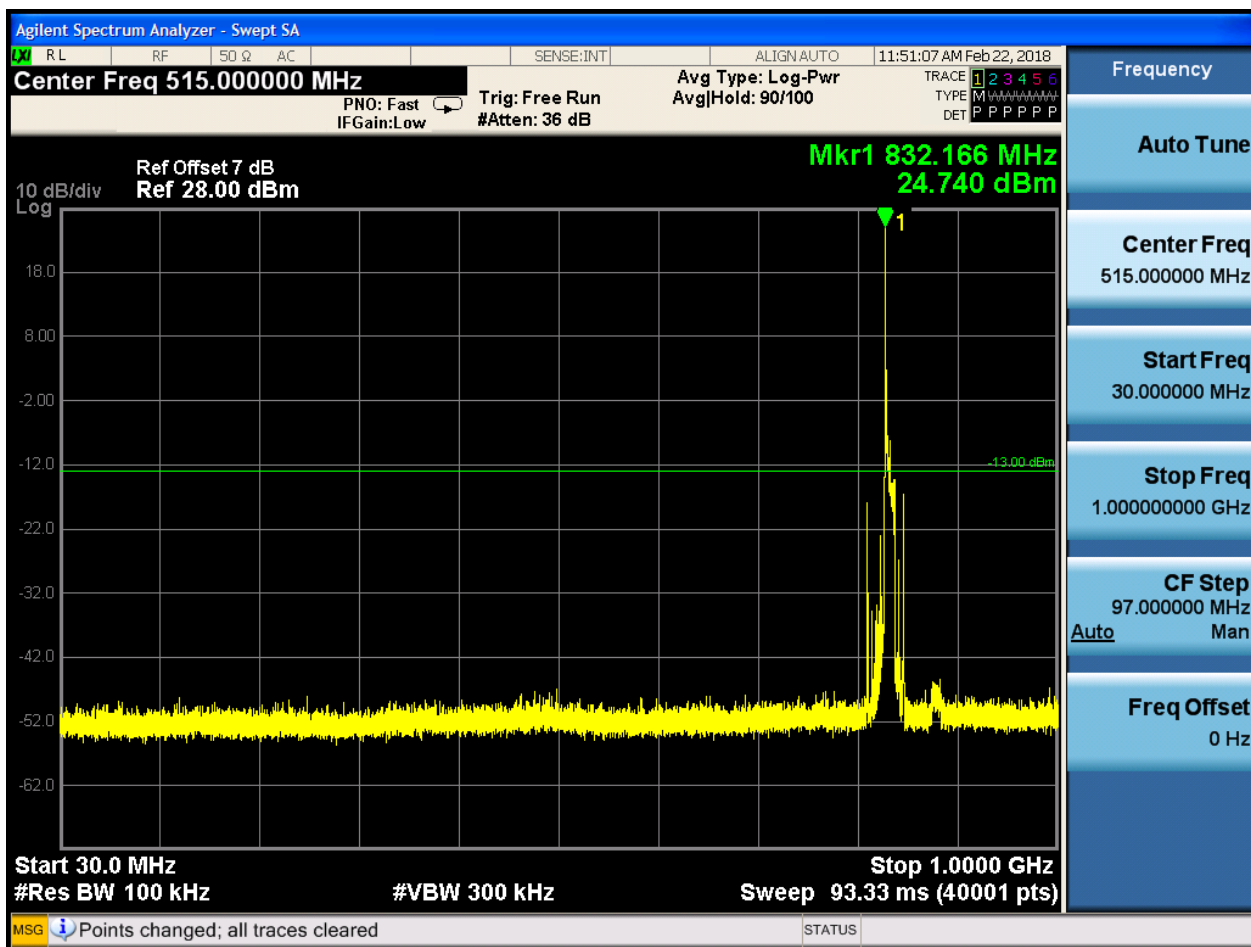


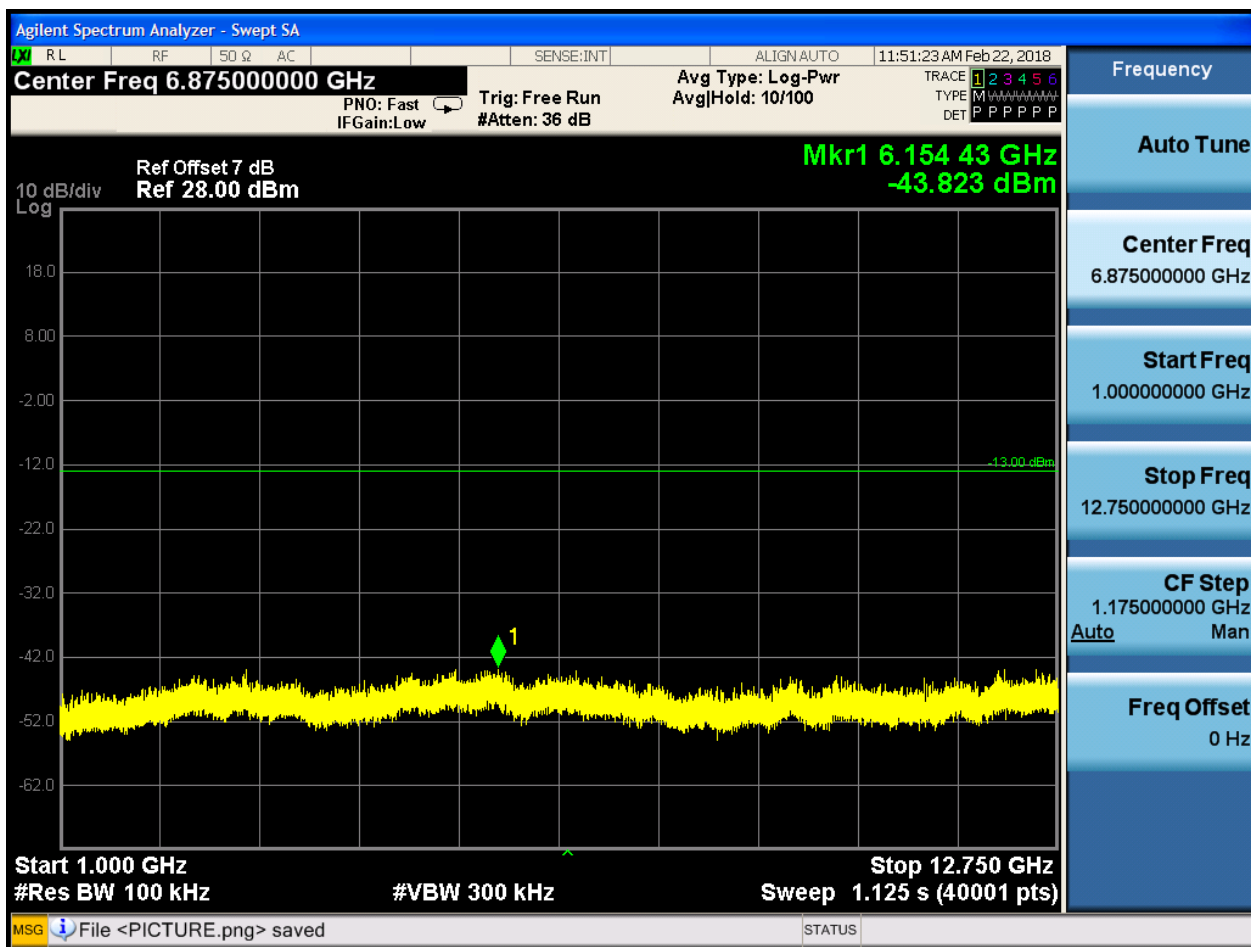
6.2.1.1.4.2 Test Channel = MCH

6.2.1.1.4.2.1 Test RB = RB1#0



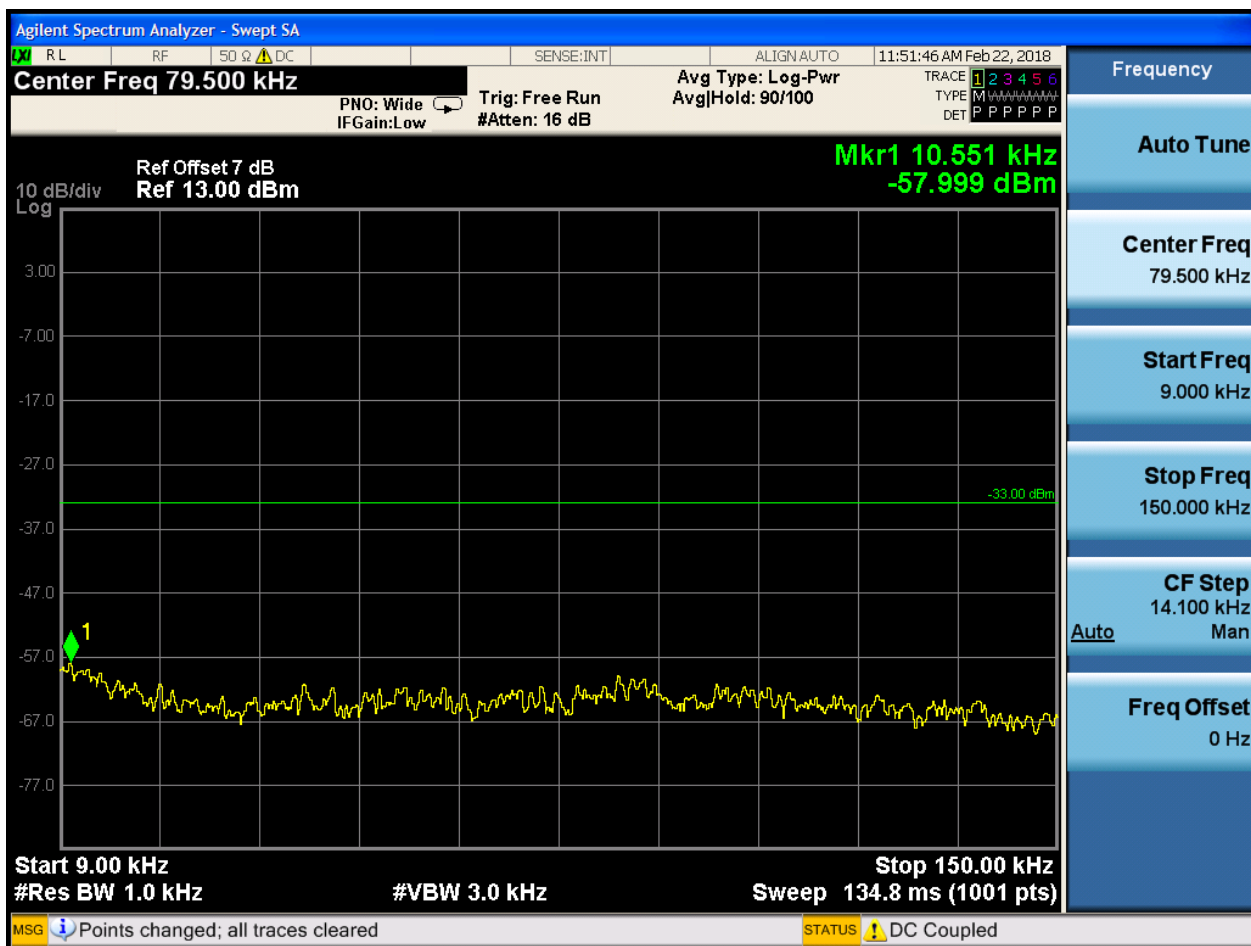


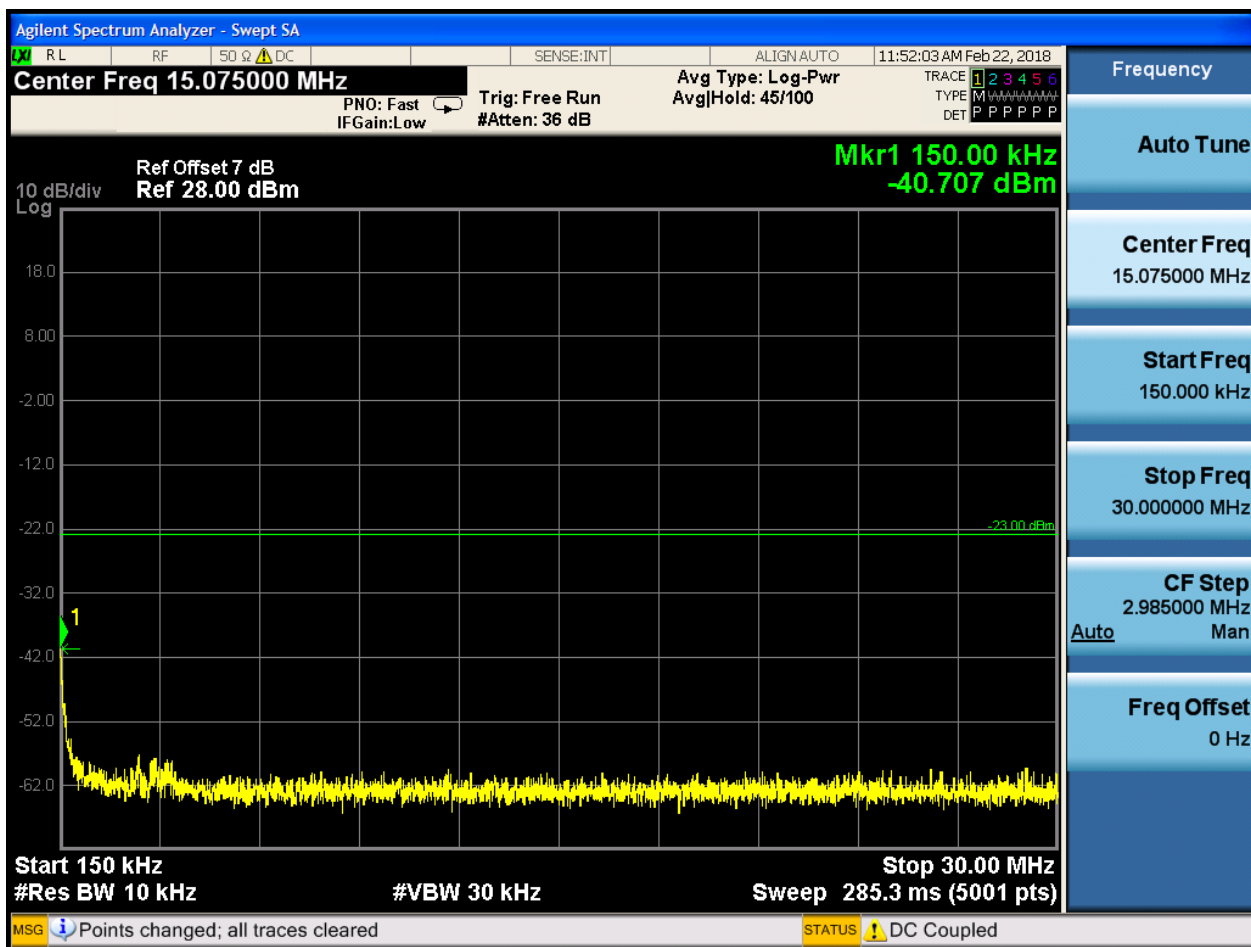


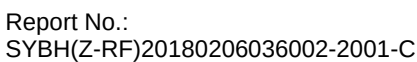


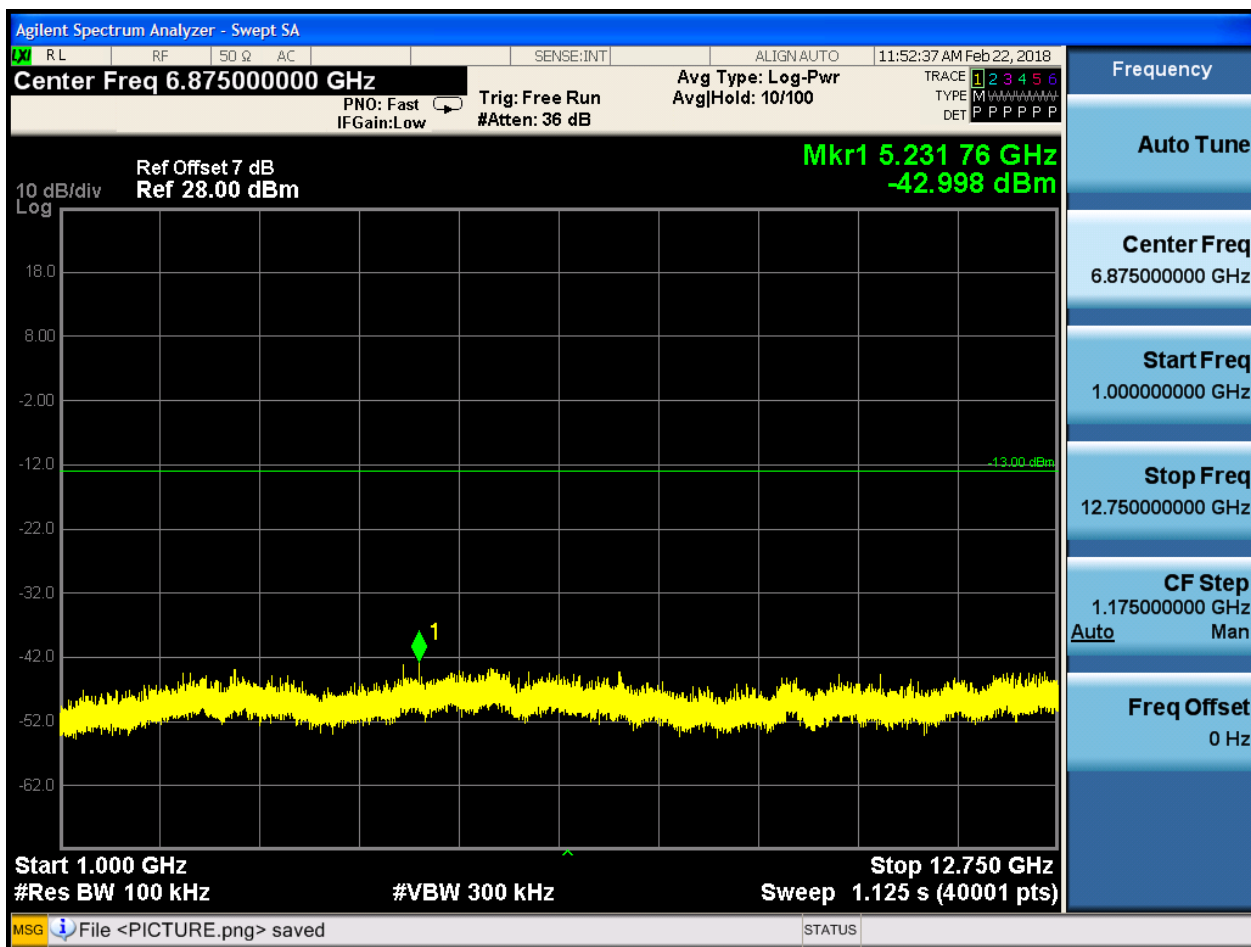
6.2.1.1.4.3 Test Channel = HCH

6.2.1.1.4.3.1 Test RB = RB1#0







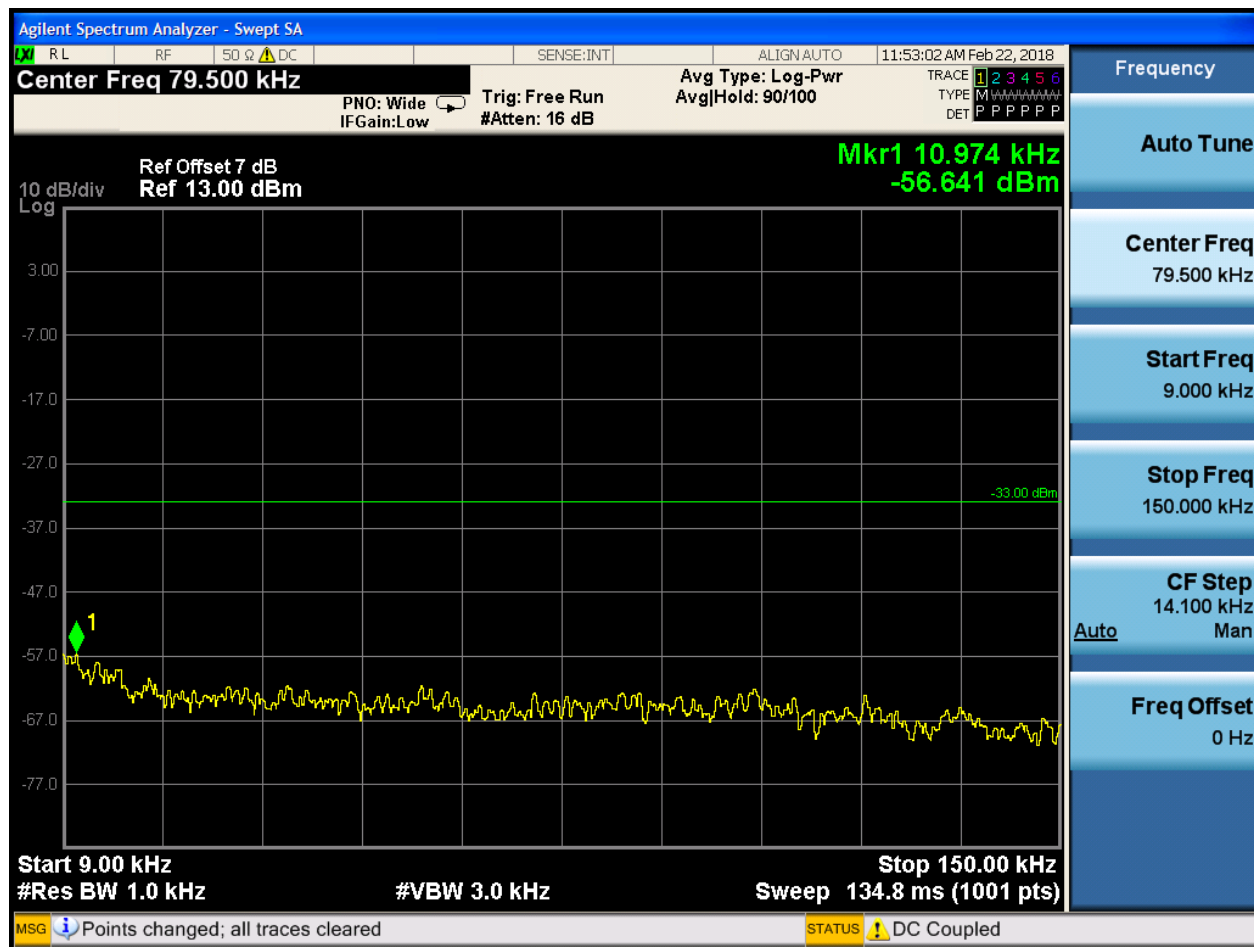


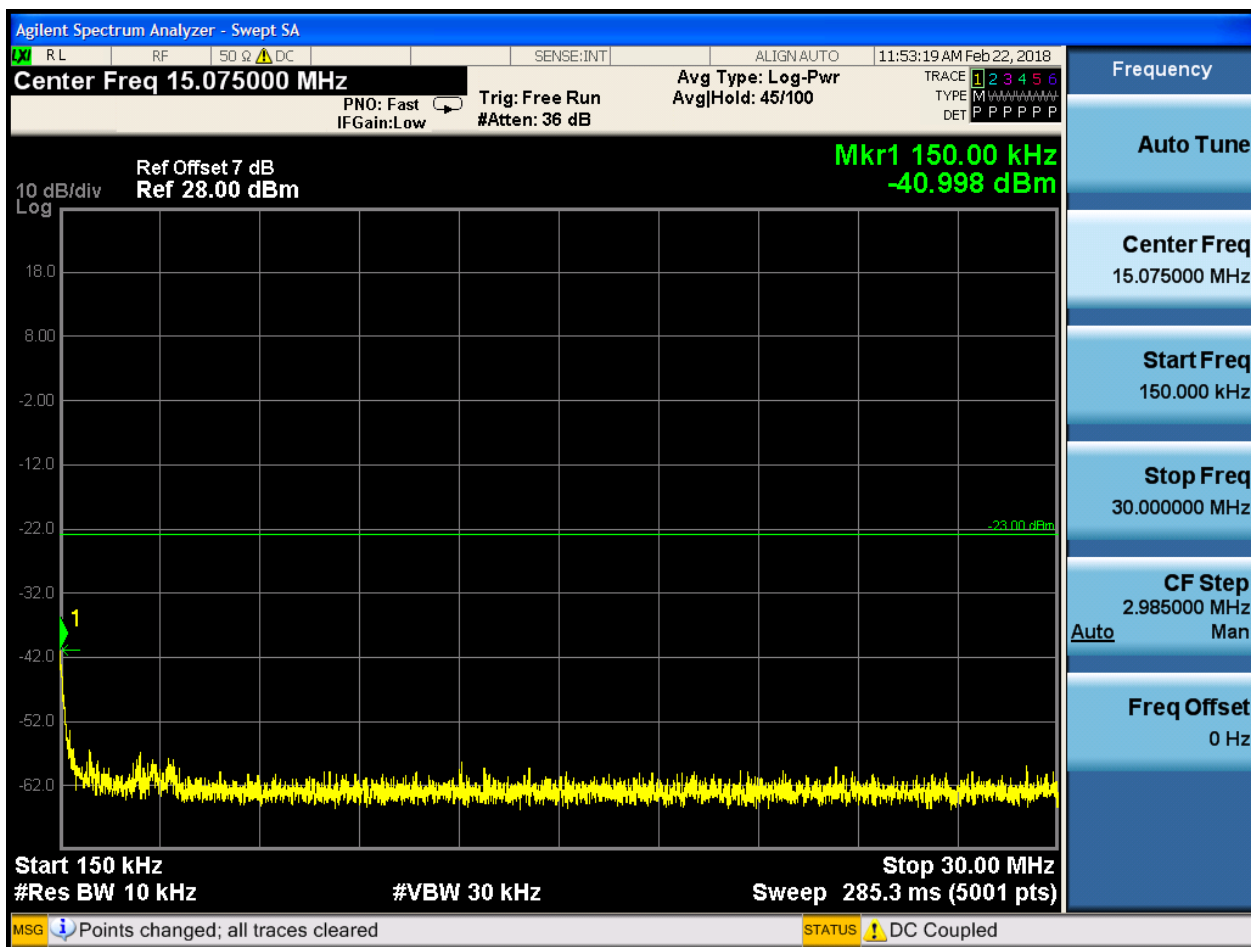
6.2.1.2 Test Mode = LTE/TM2

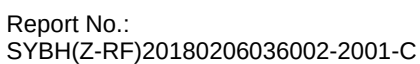
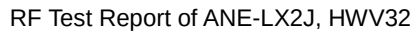
6.2.1.2.1 Test Bandwidth = 1.4

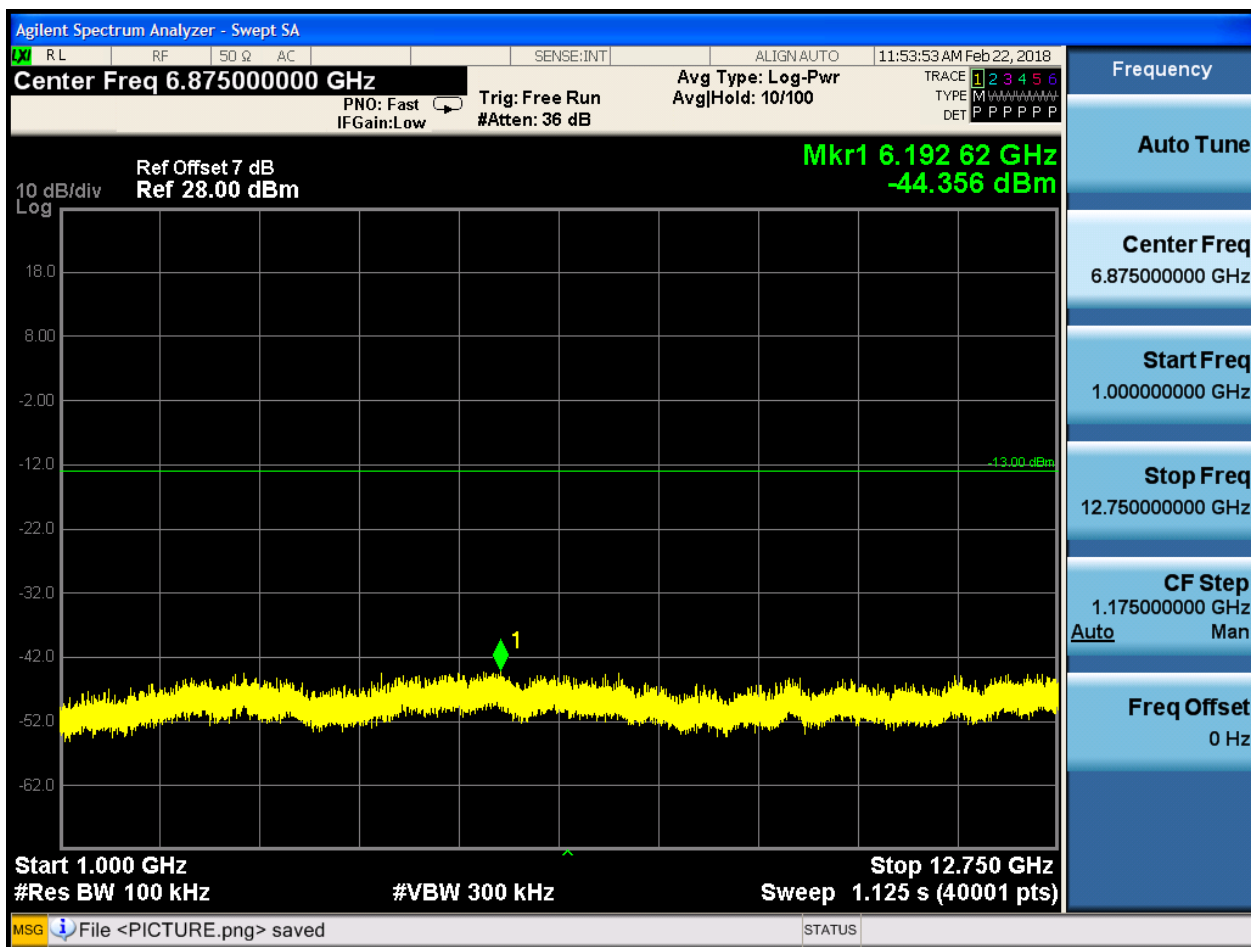
6.2.1.2.1.1 Test Channel = LCH

6.2.1.2.1.1.1 Test RB = RB1#0





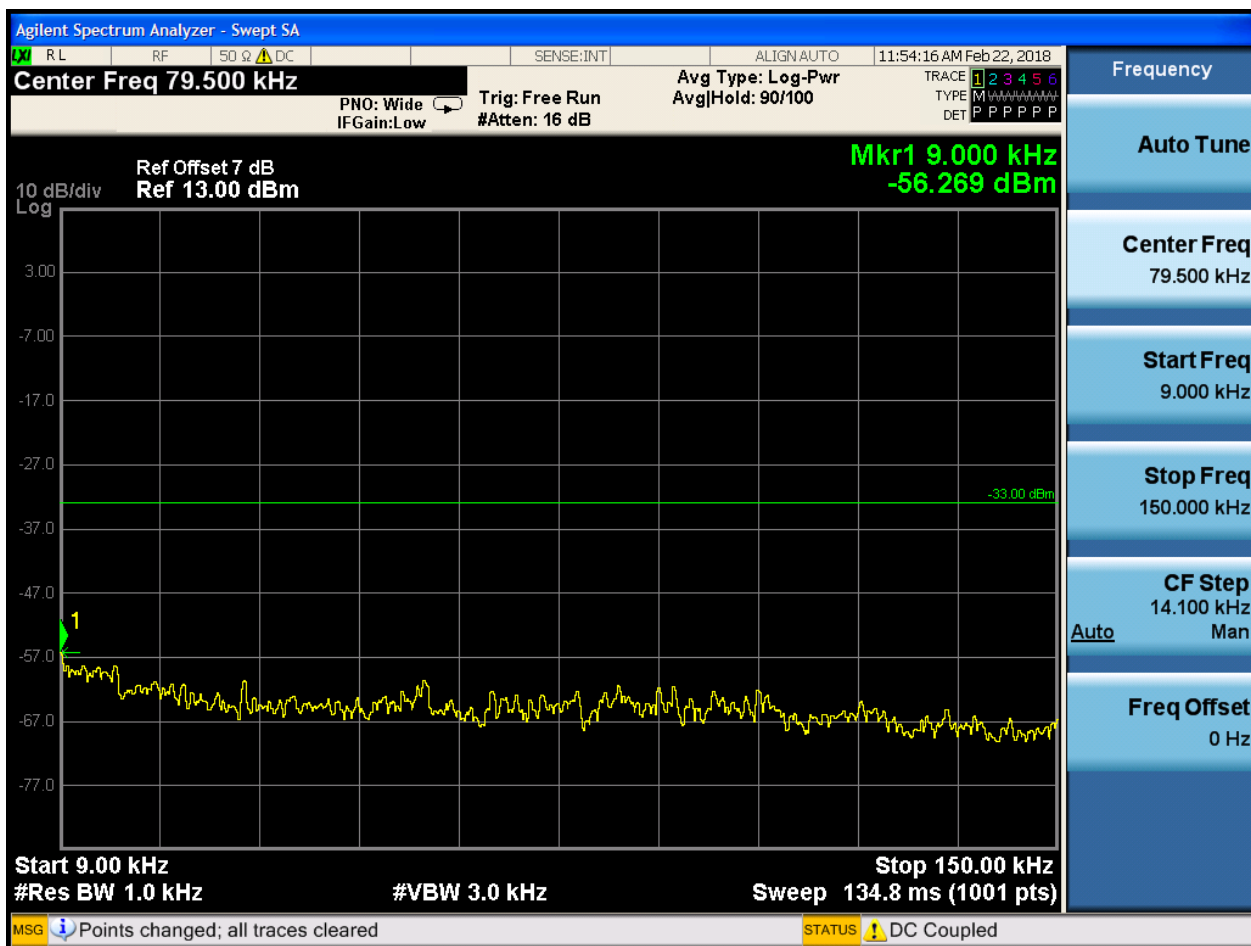


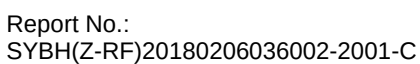
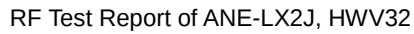


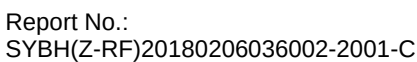
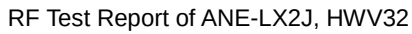


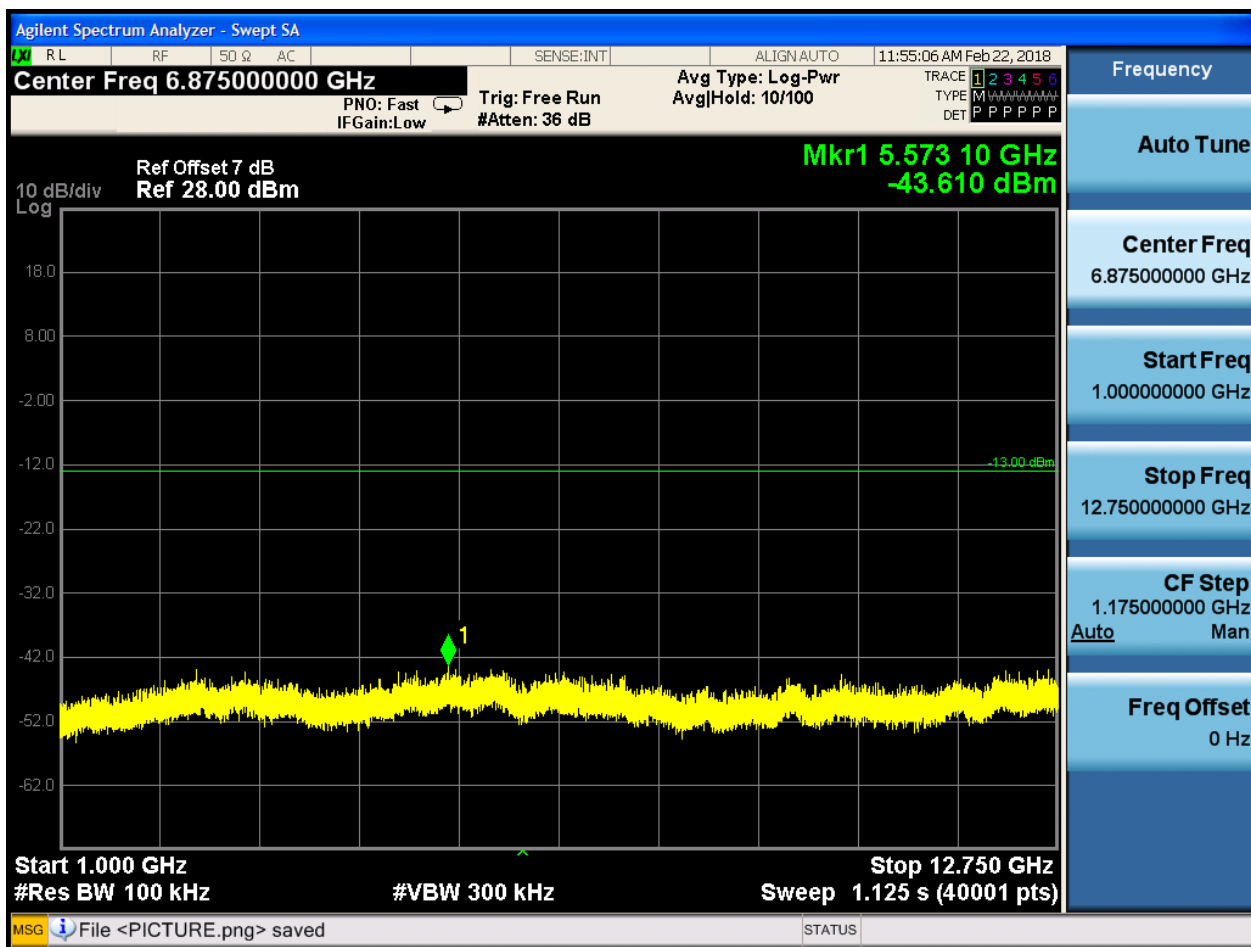
6.2.1.2.1.2 Test Channel = MCH

6.2.1.2.1.2.1 Test RB = RB1#0



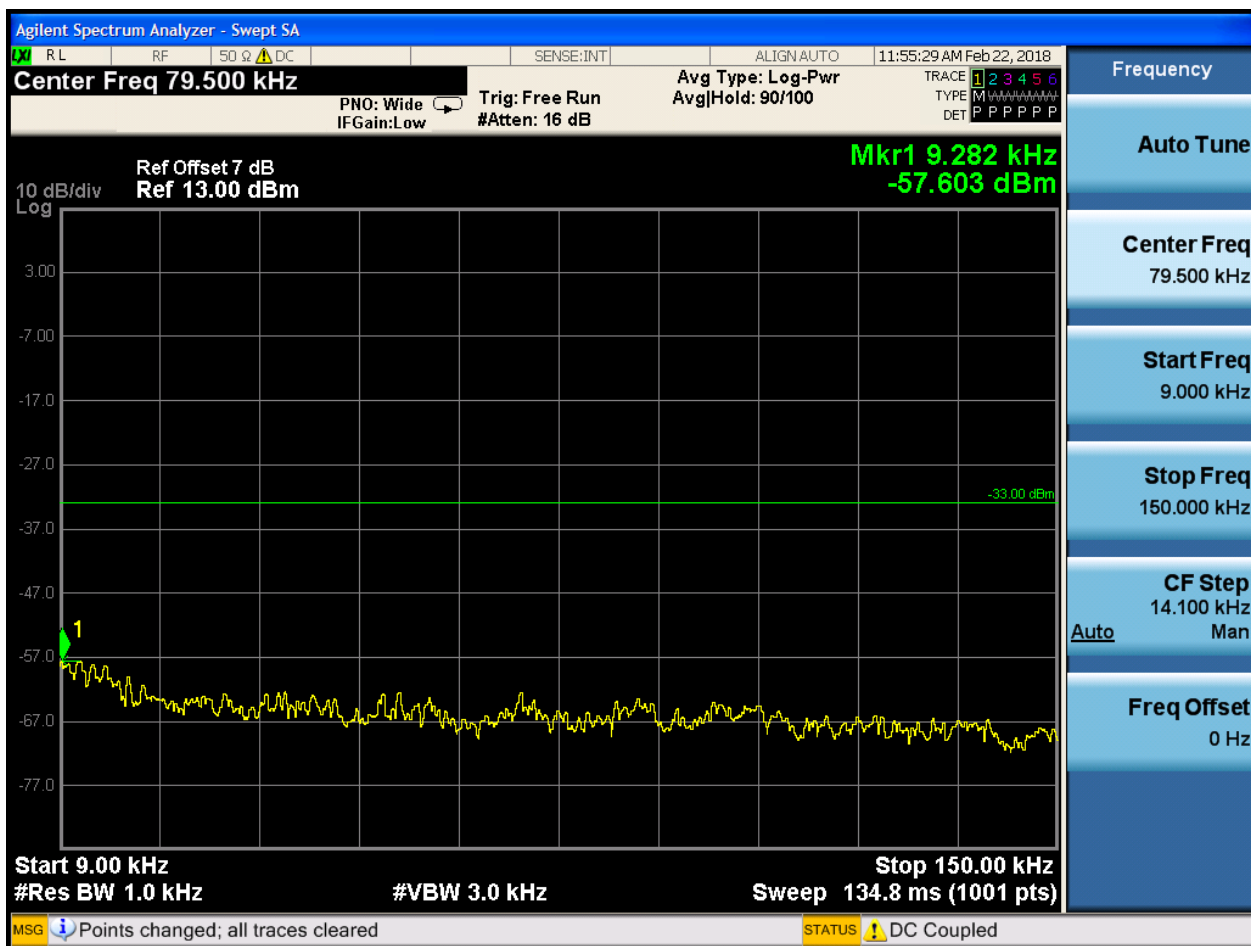


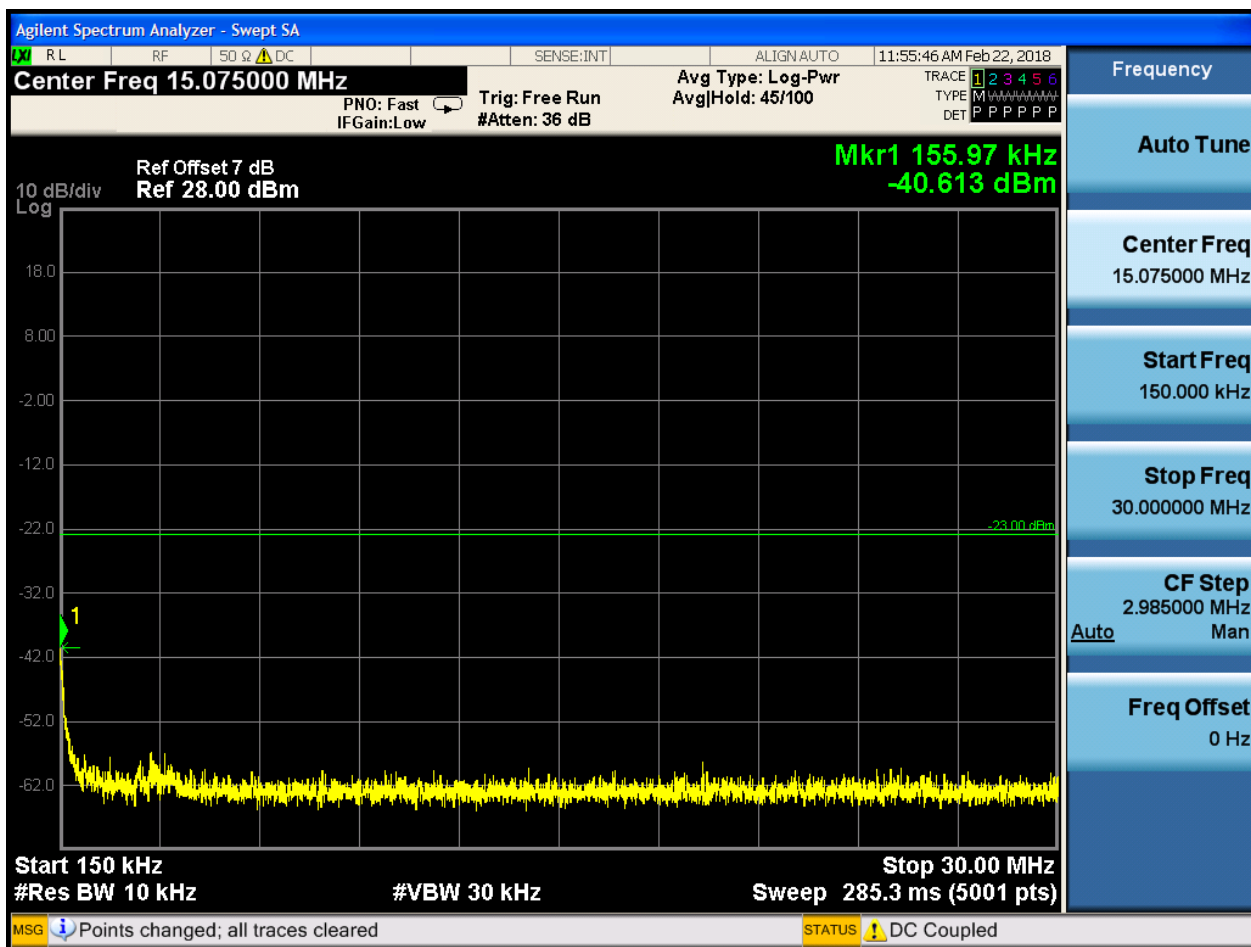


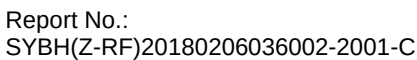


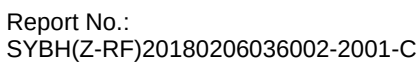
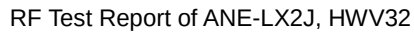
6.2.1.2.1.3 Test Channel = HCH

6.2.1.2.1.3.1 Test RB = RB1#0







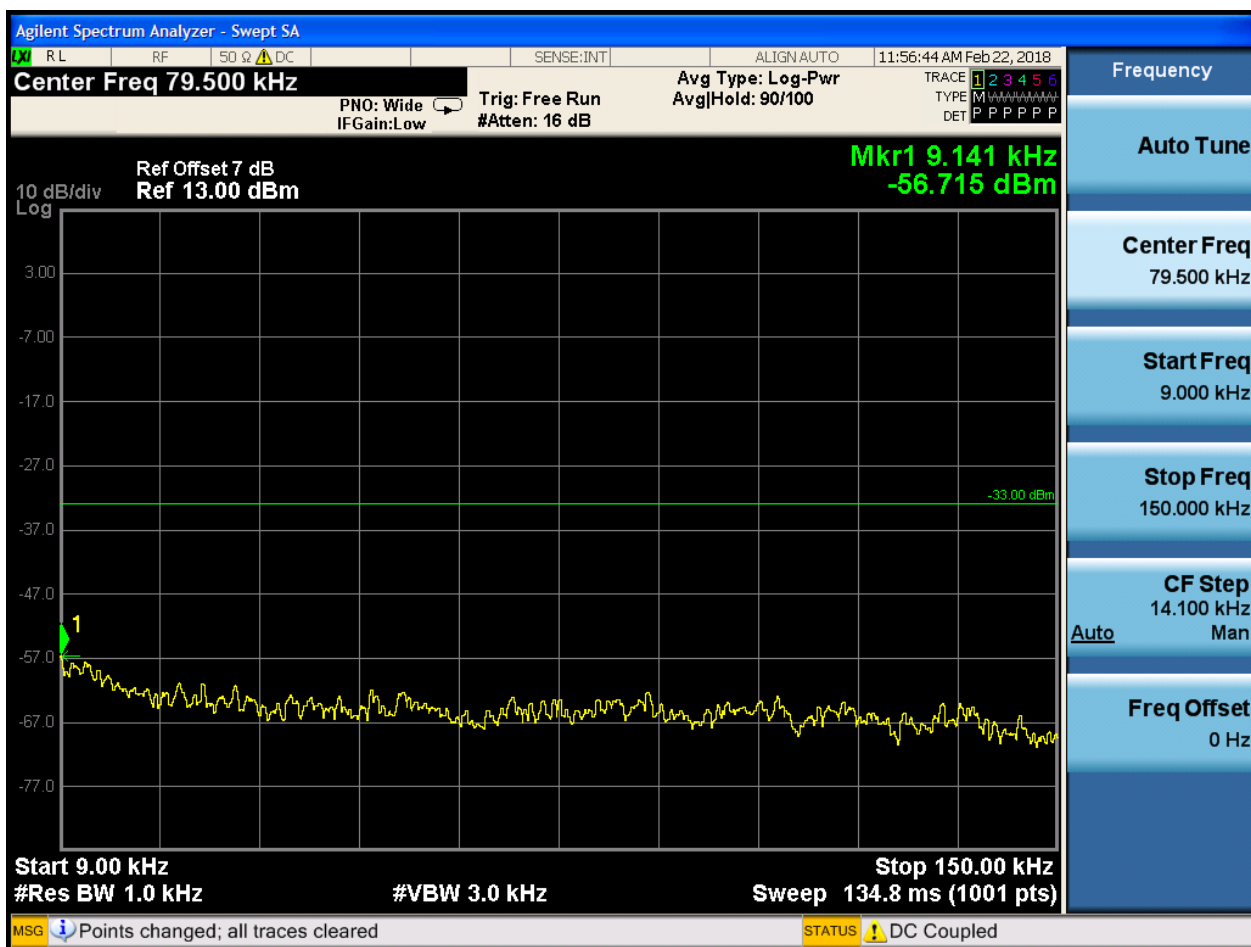


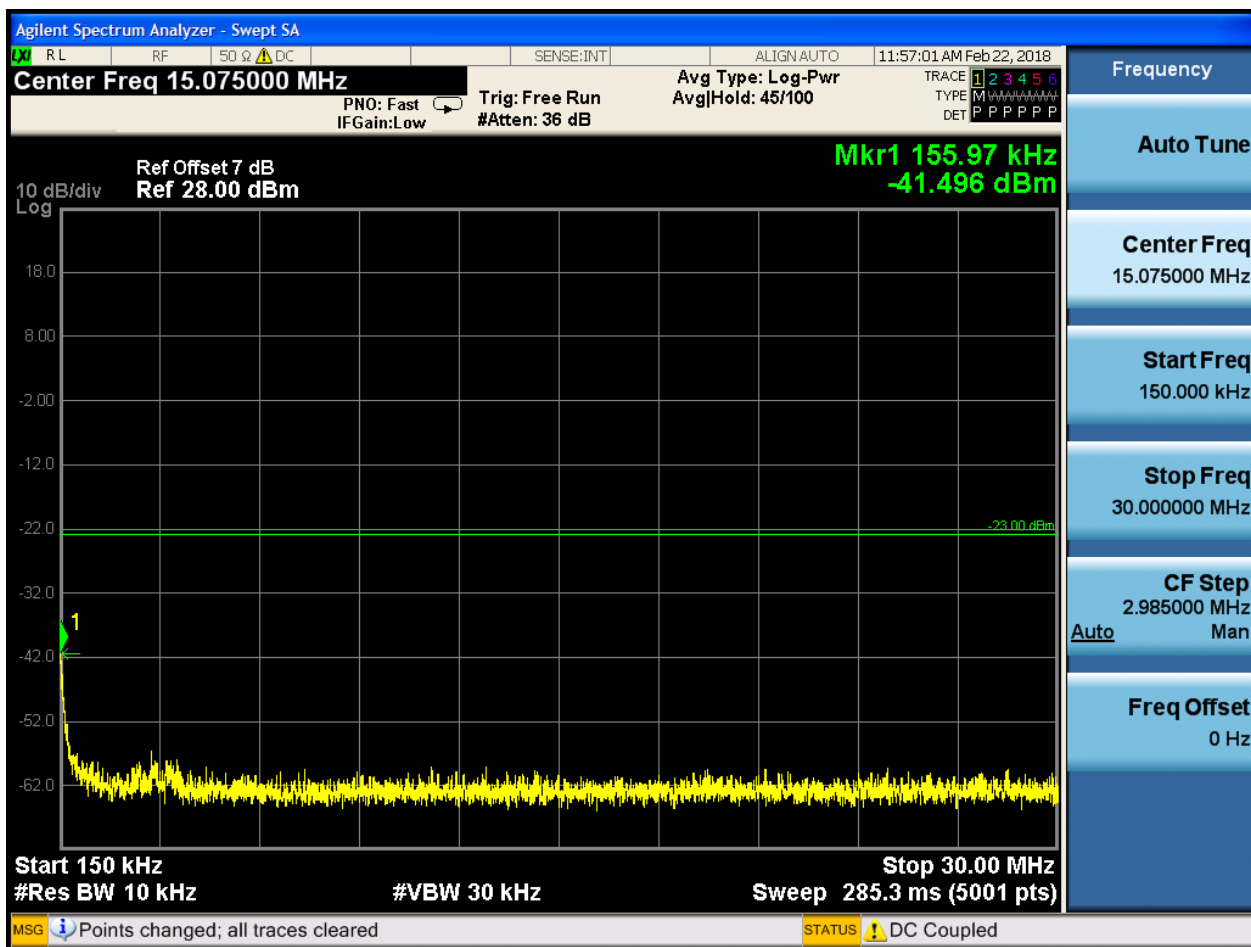


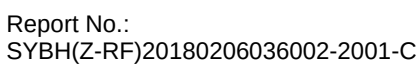
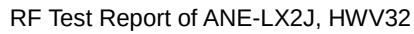
6.2.1.2.2 Test Bandwidth = 3

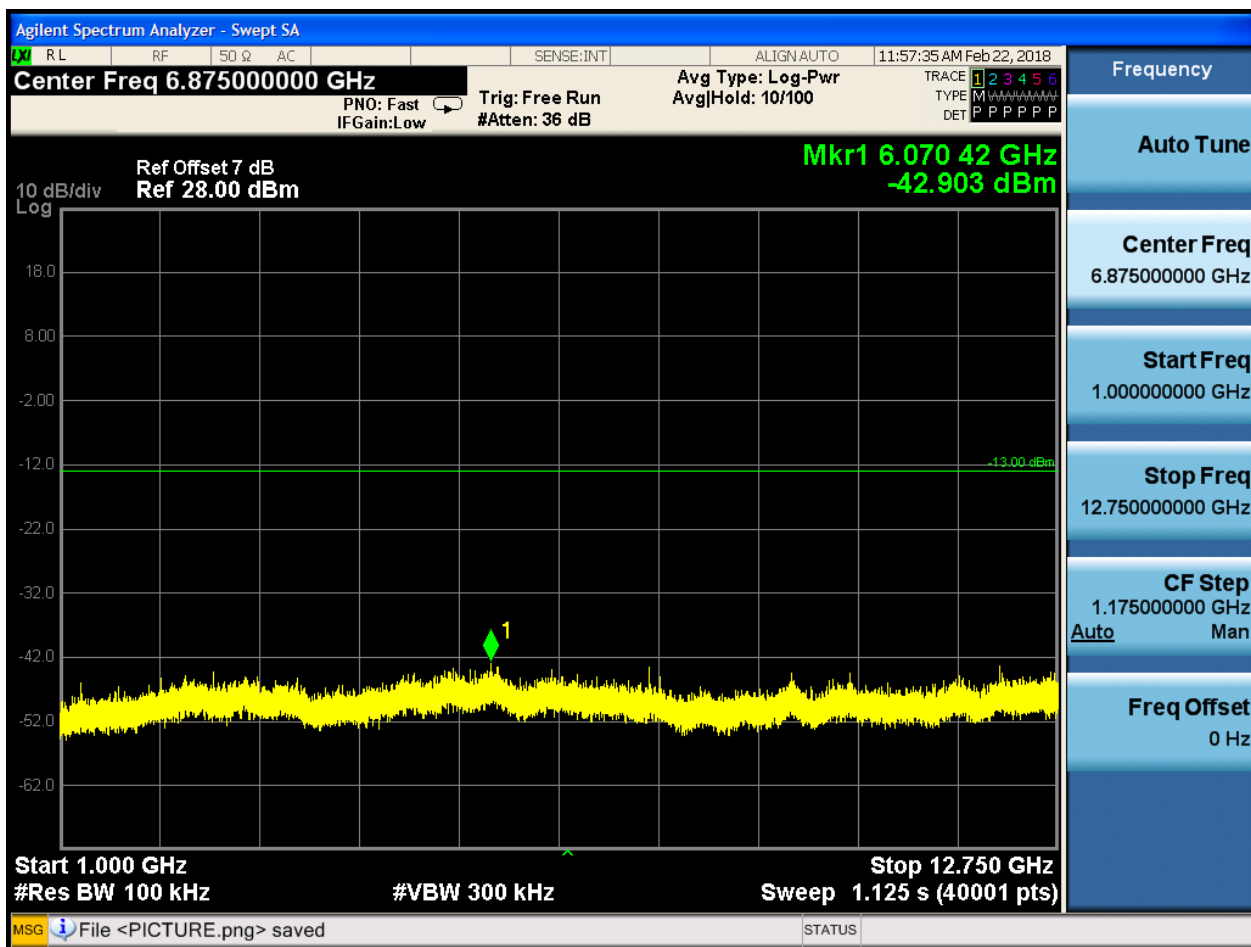
6.2.1.2.2.1 Test Channel = LCH

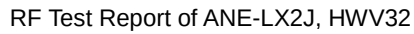
6.2.1.2.2.1.1 Test RB = RB1#0



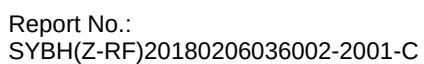


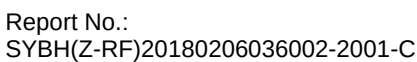
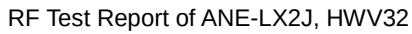


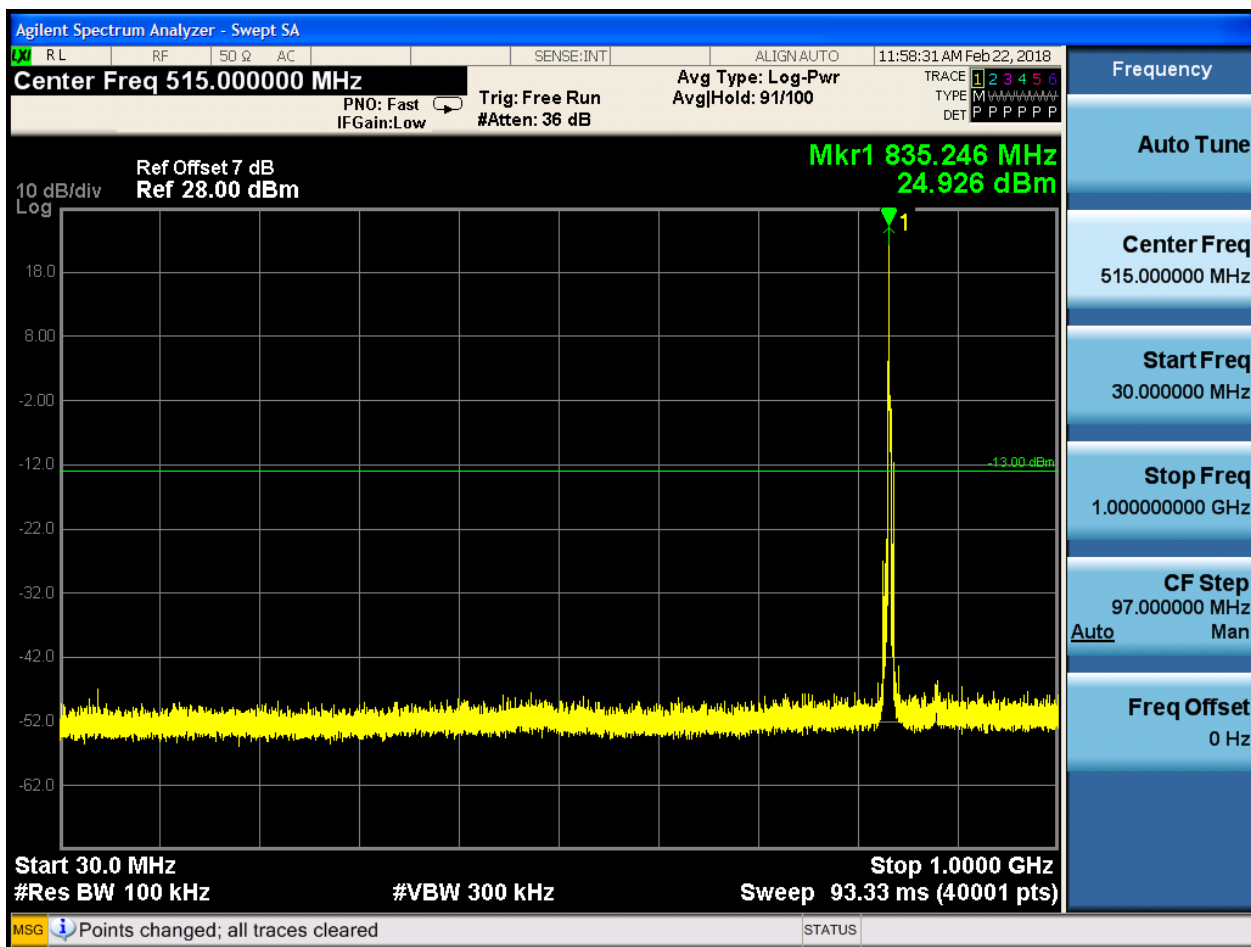


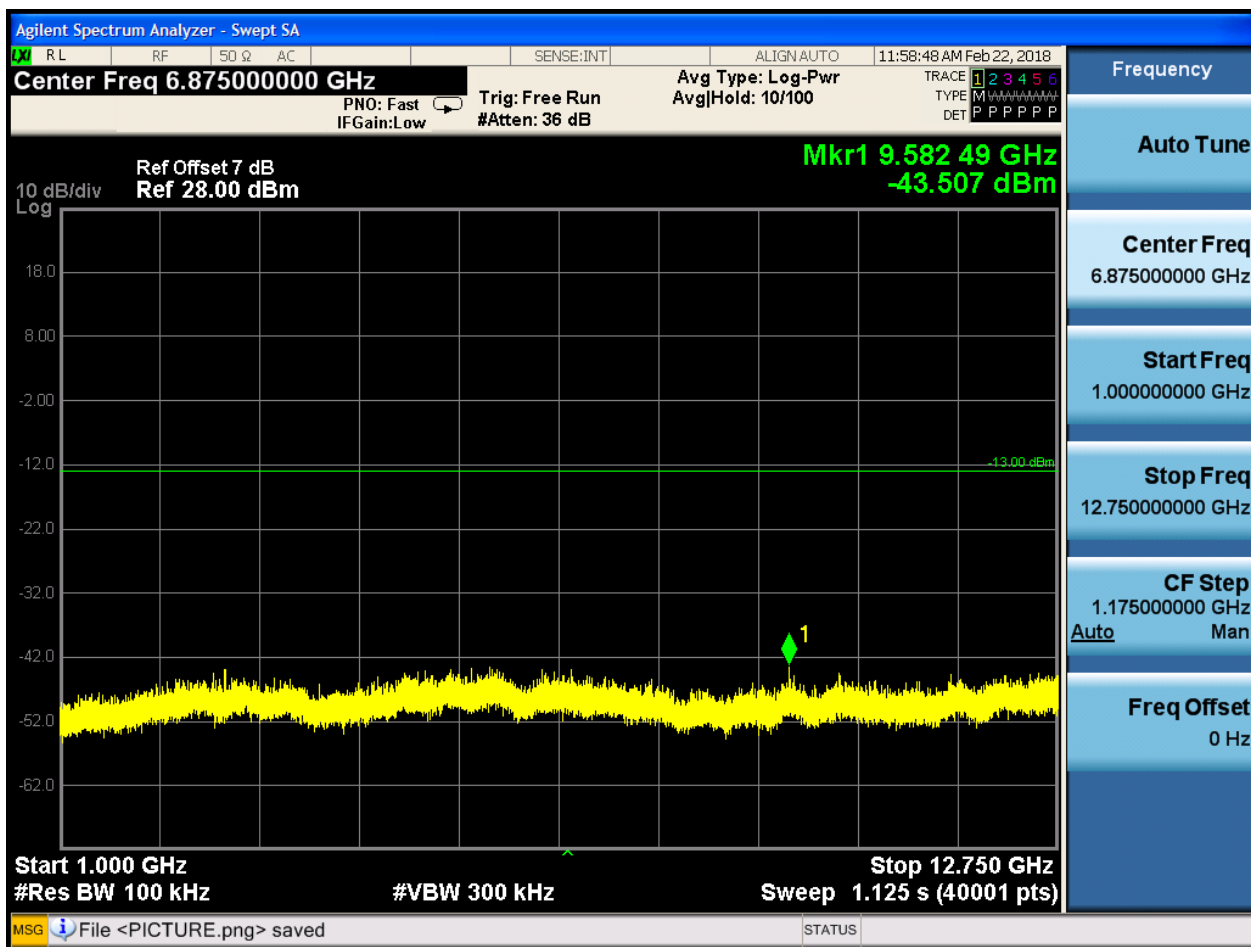


6.2.1.2.2.2.1 Test RB = RB1#0





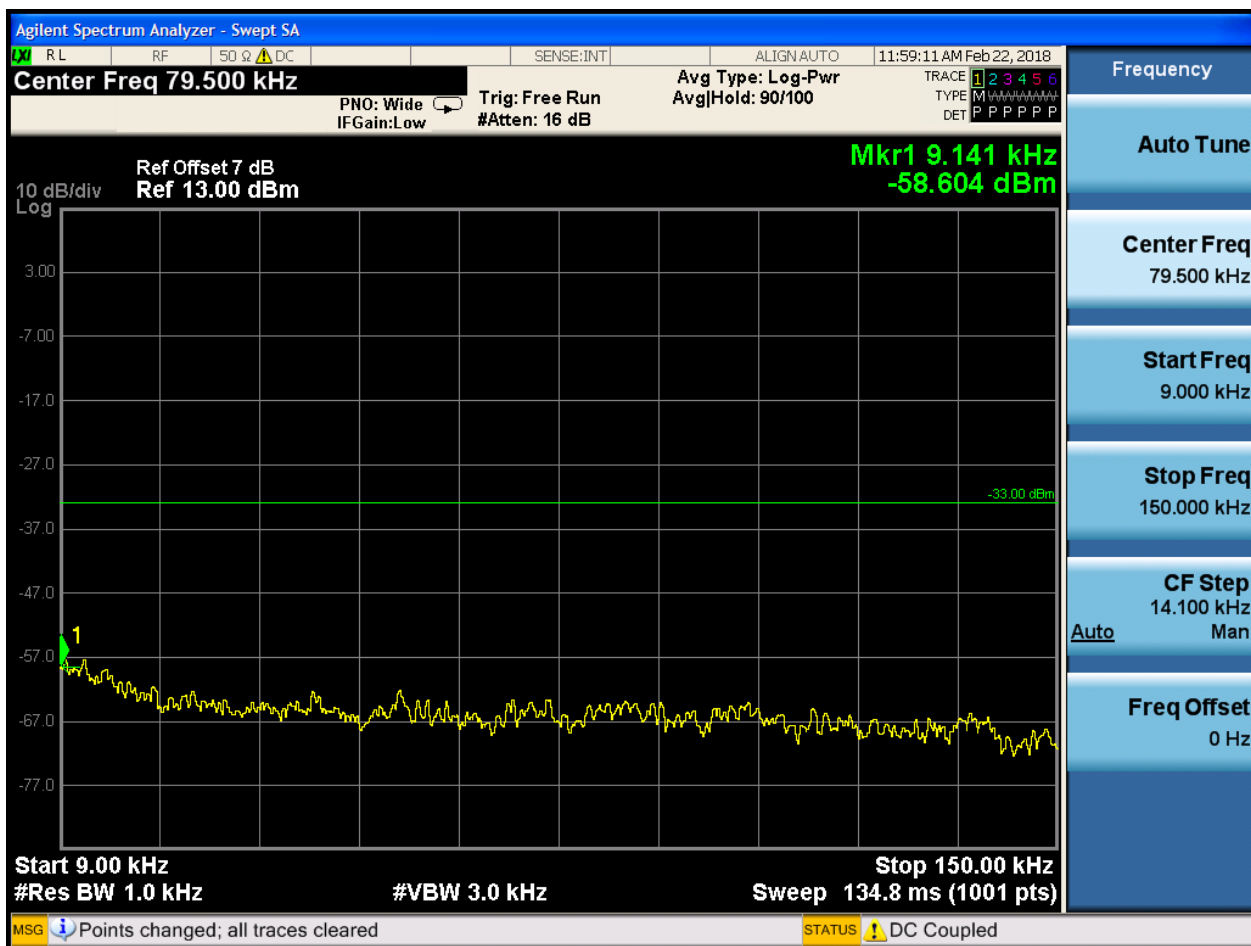


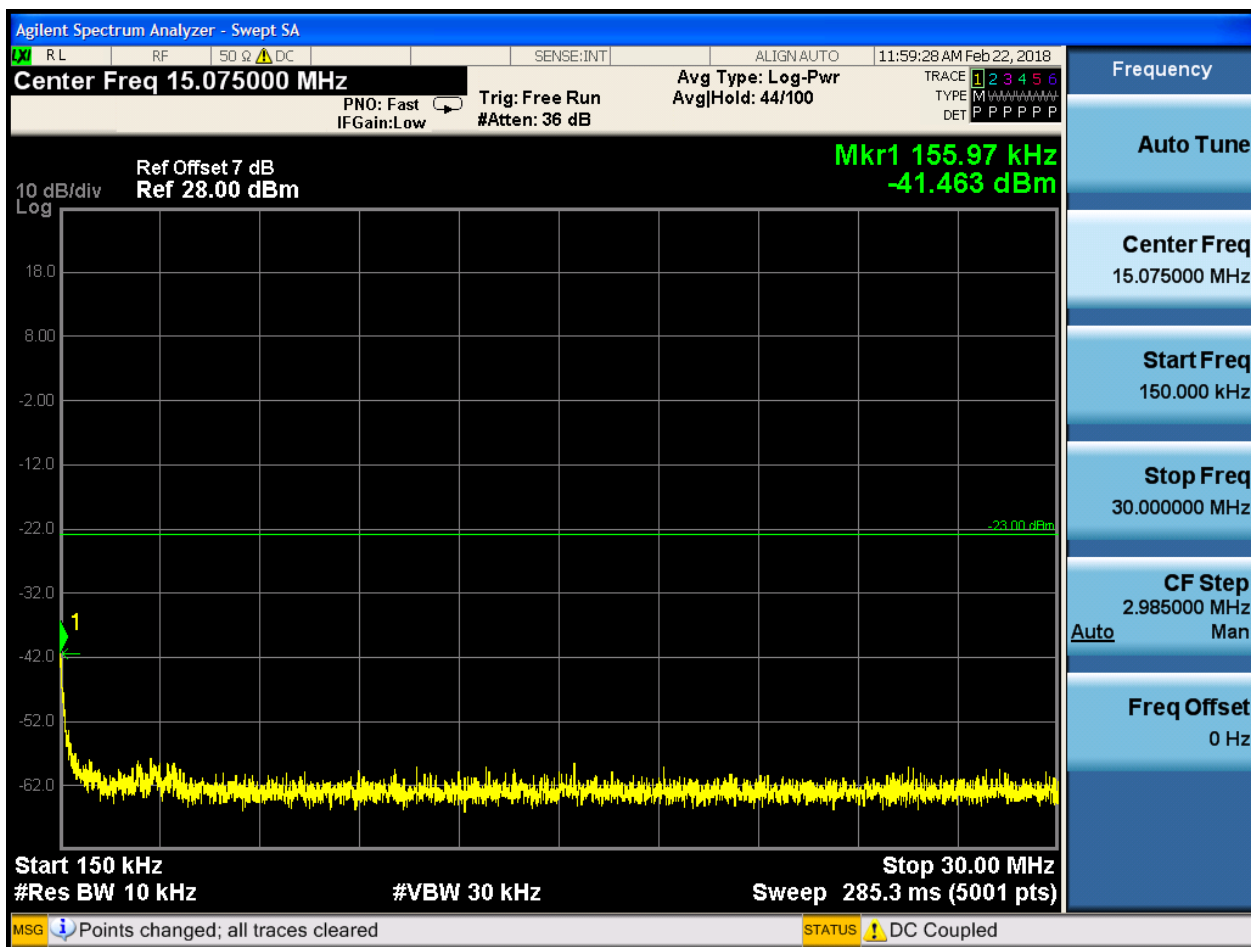


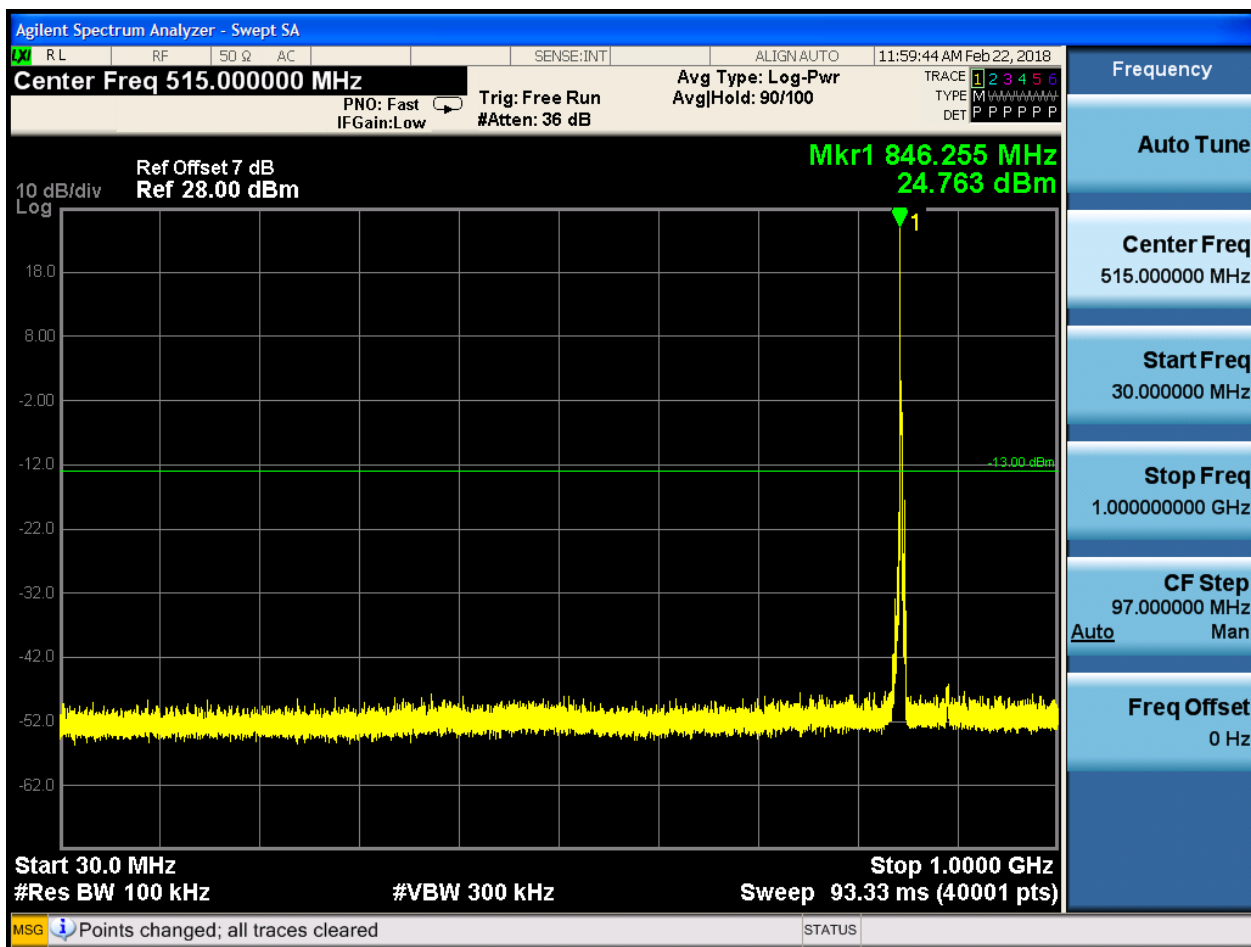


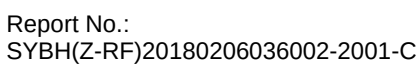
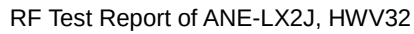
6.2.1.2.2.3 Test Channel = HCH

6.2.1.2.2.3.1 Test RB = RB1#0







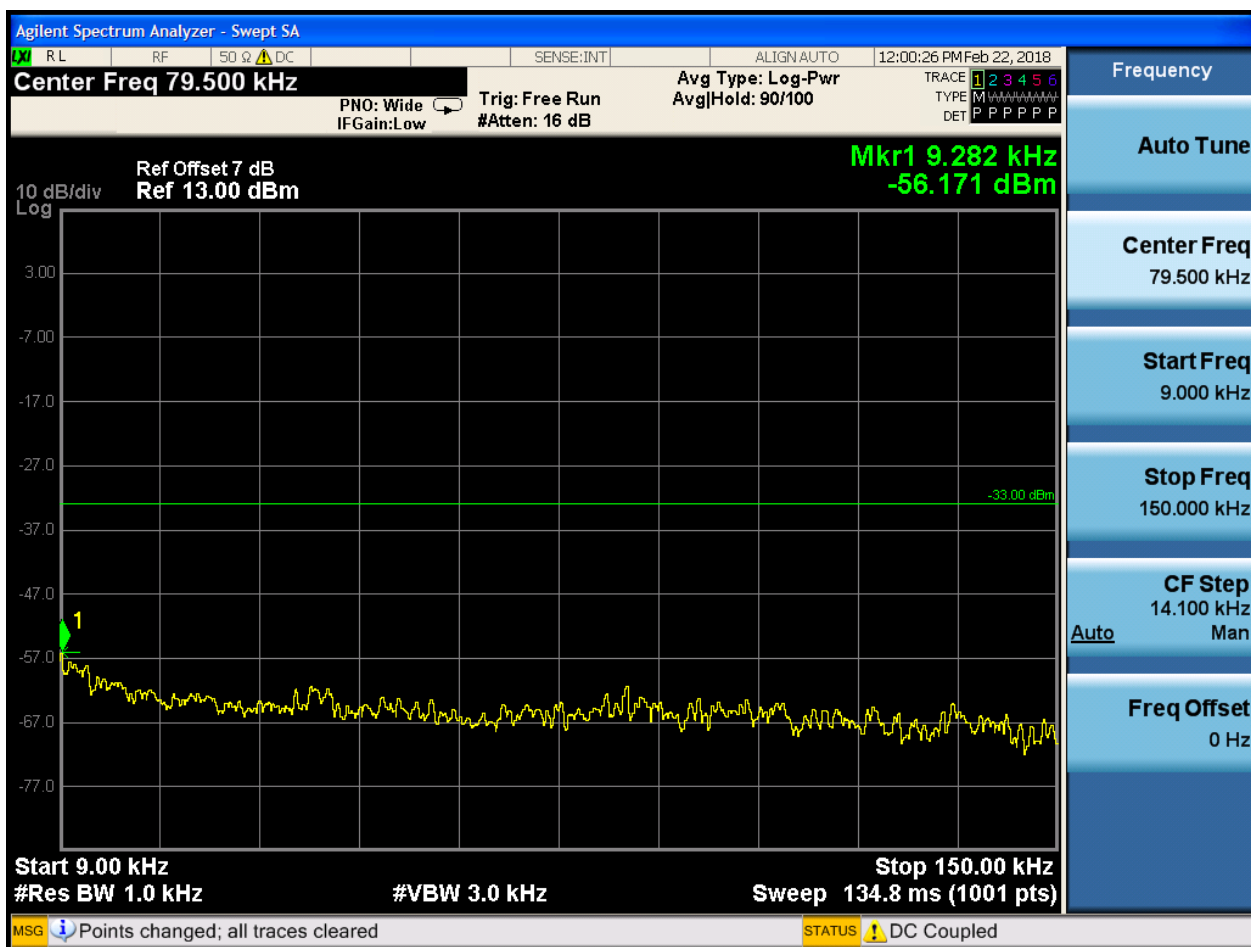


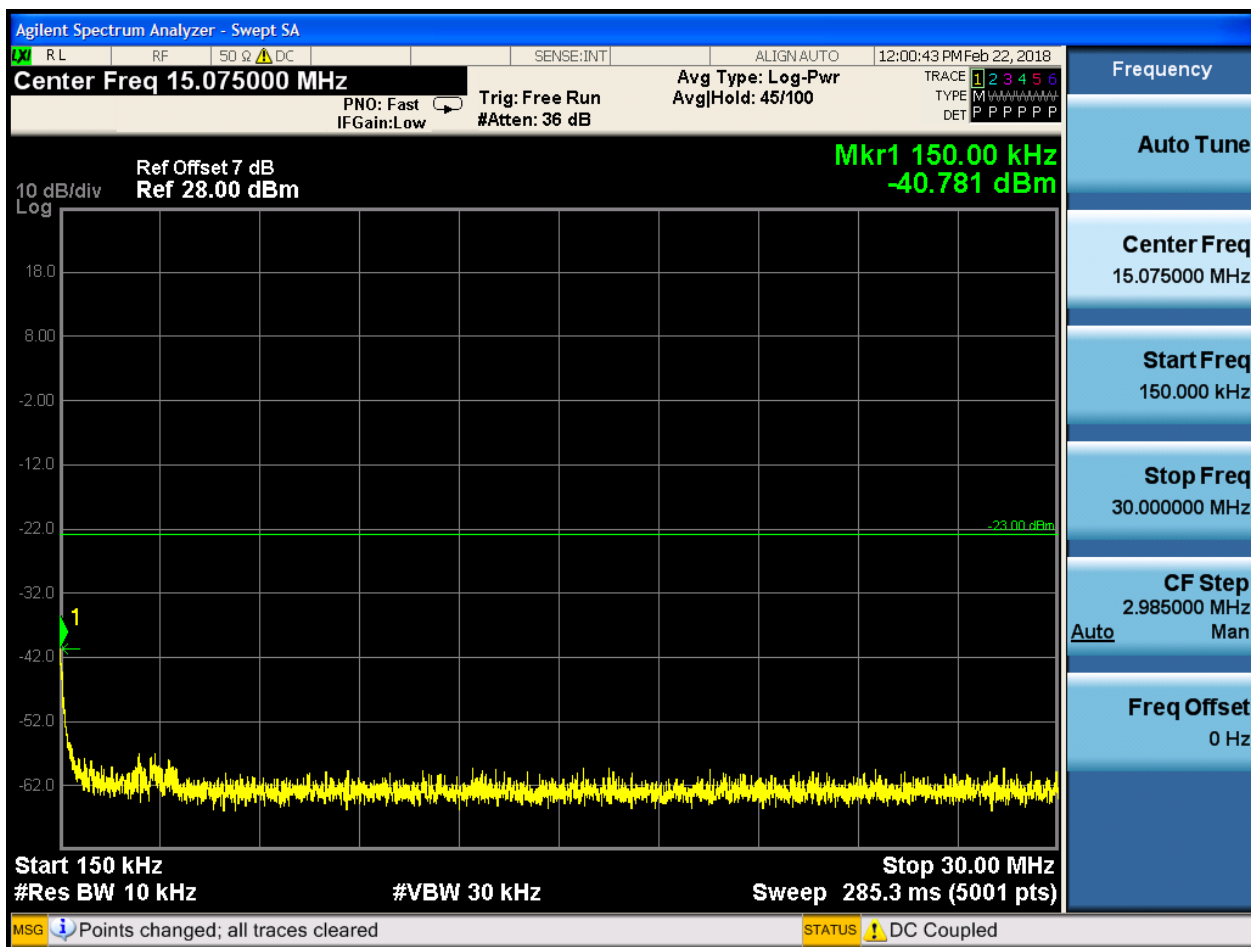
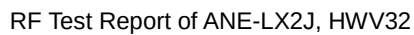


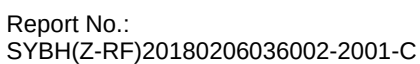
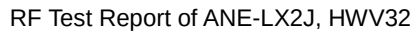
6.2.1.2.3 Test Bandwidth = 5

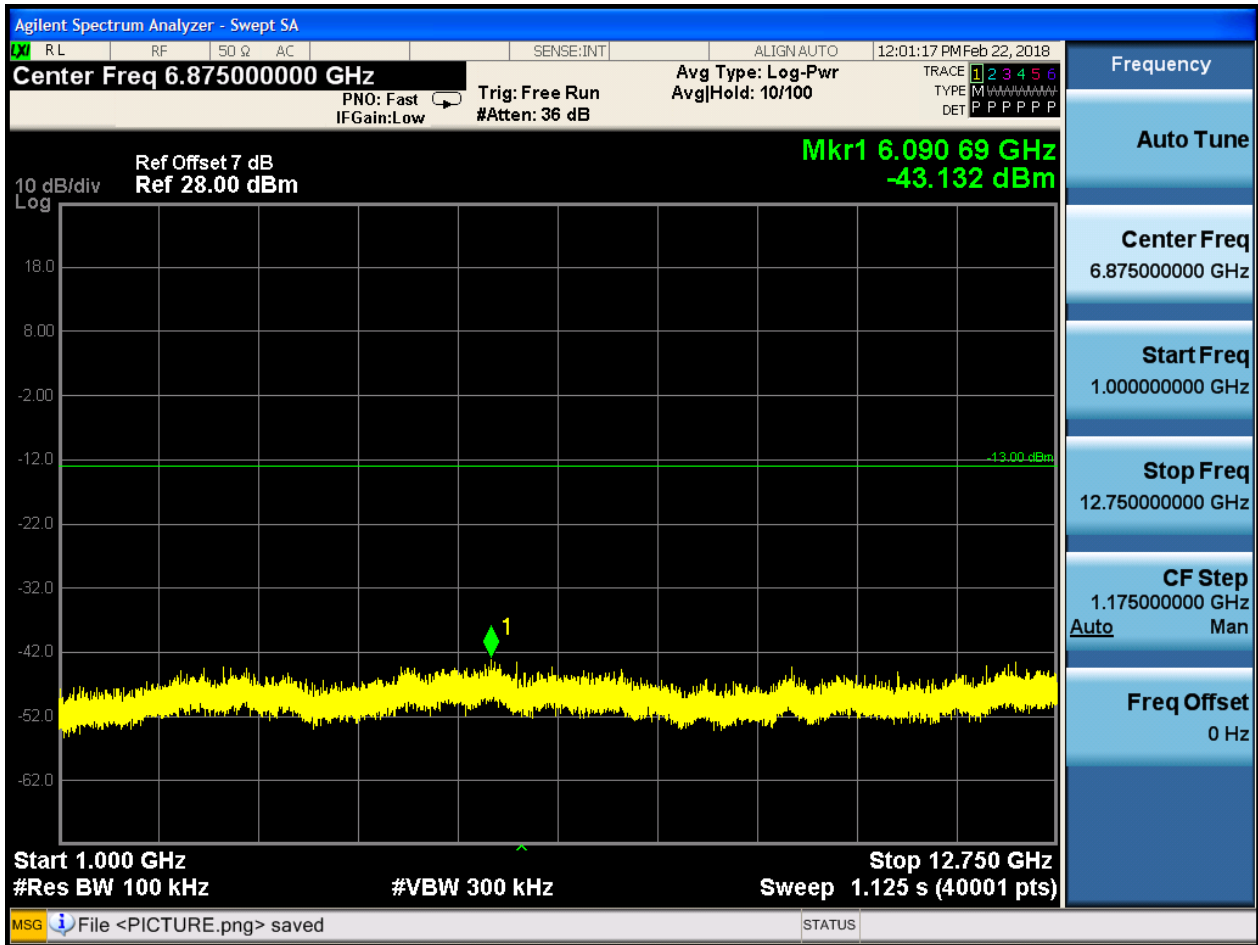
6.2.1.2.3.1 Test Channel = LCH

6.2.1.2.3.1.1 Test RB = RB1#0



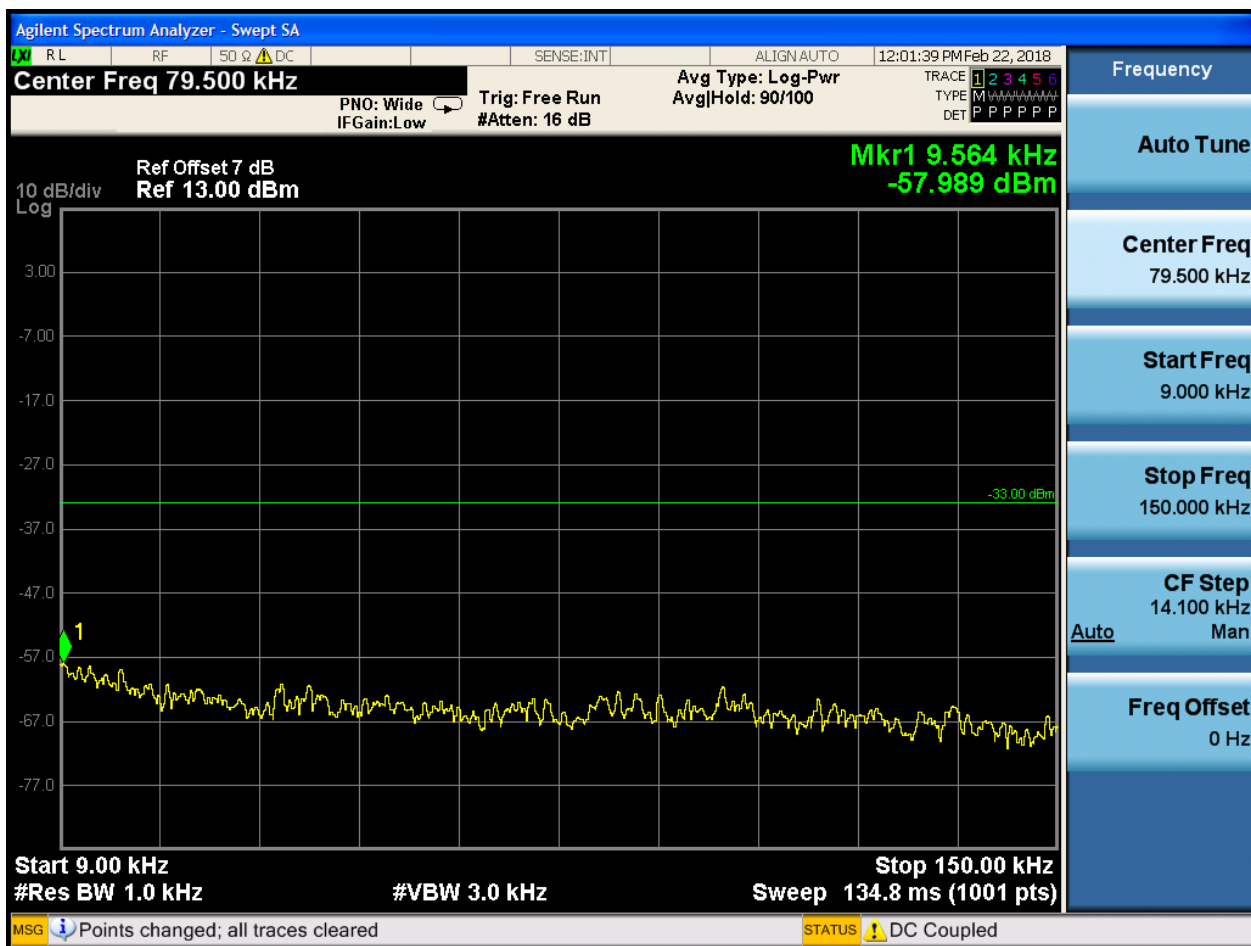


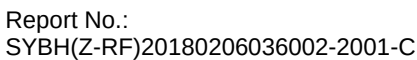


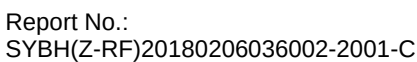


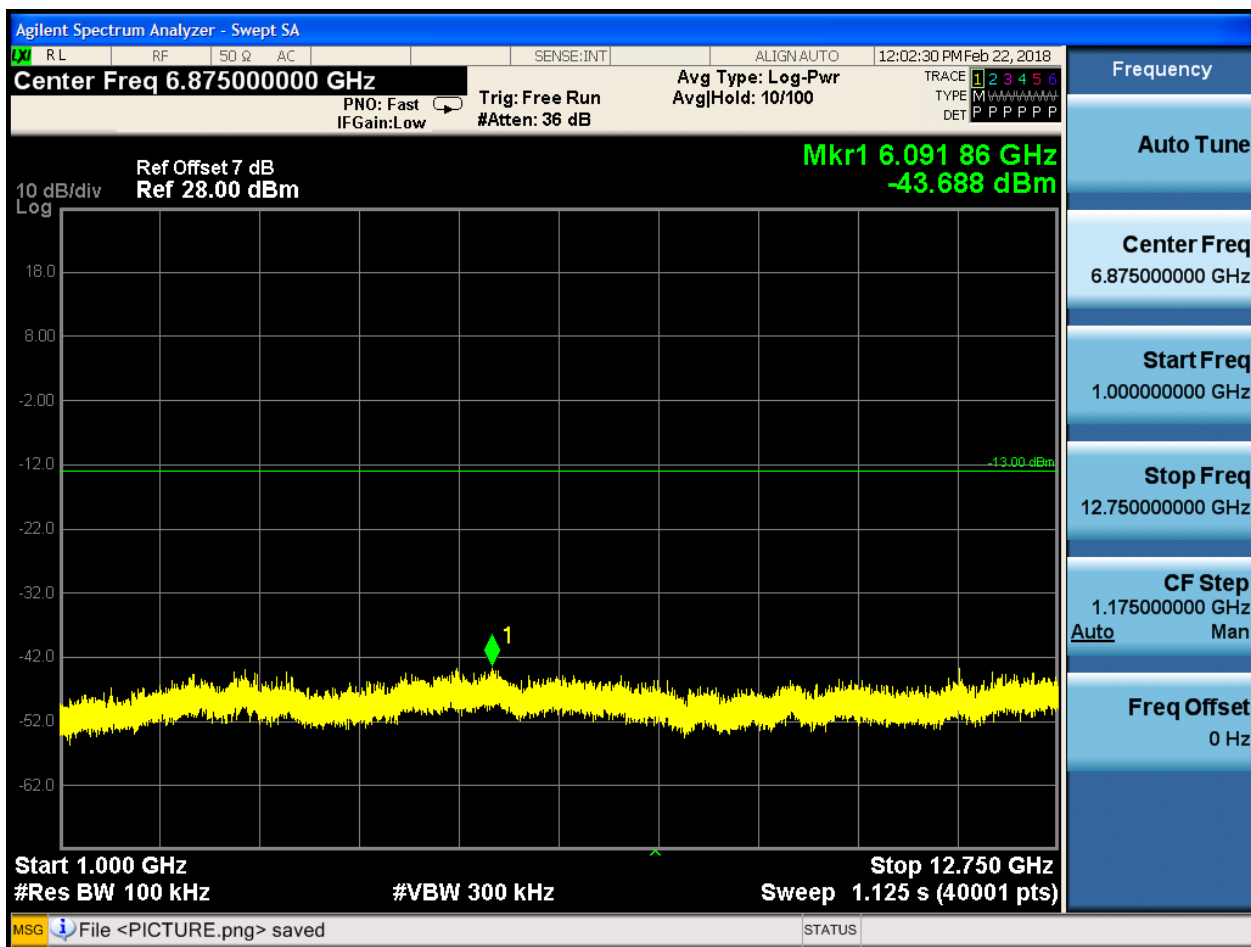
6.2.1.2.3.2 Test Channel = MCH

6.2.1.2.3.2.1 Test RB = RB1#0





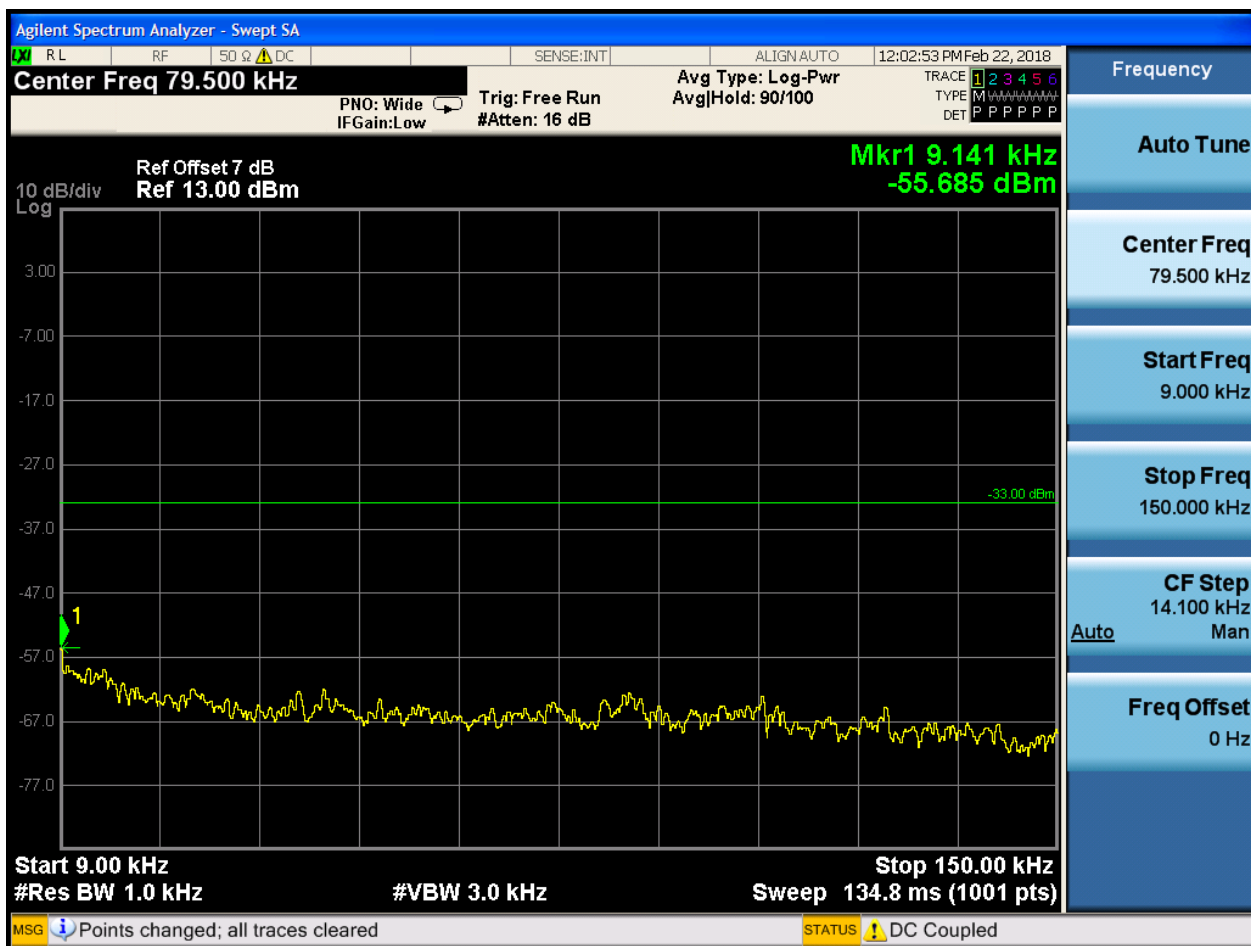


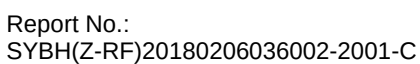
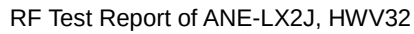


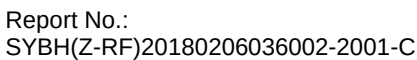


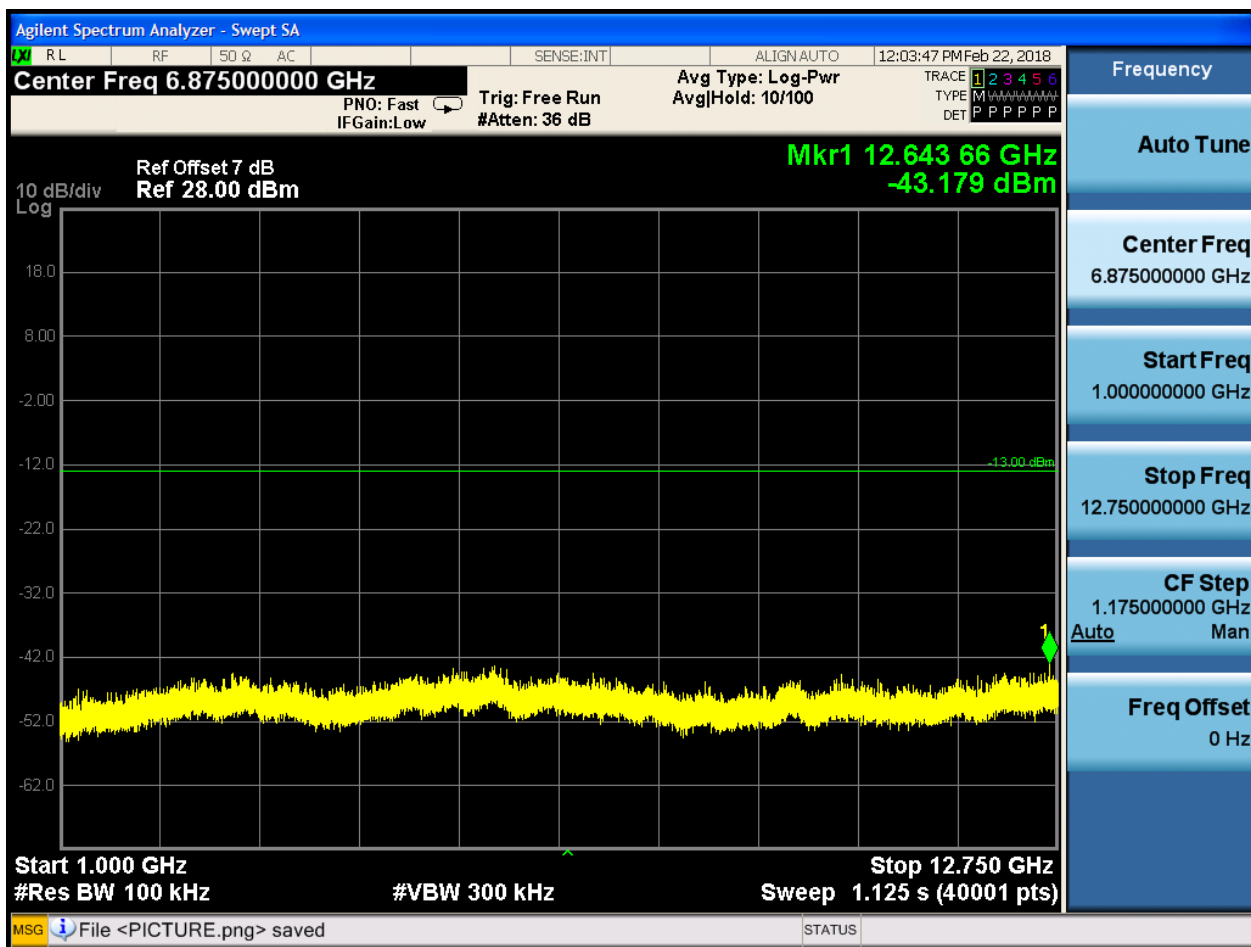
6.2.1.2.3.3 Test Channel = HCH

6.2.1.2.3.3.1 Test RB = RB1#0







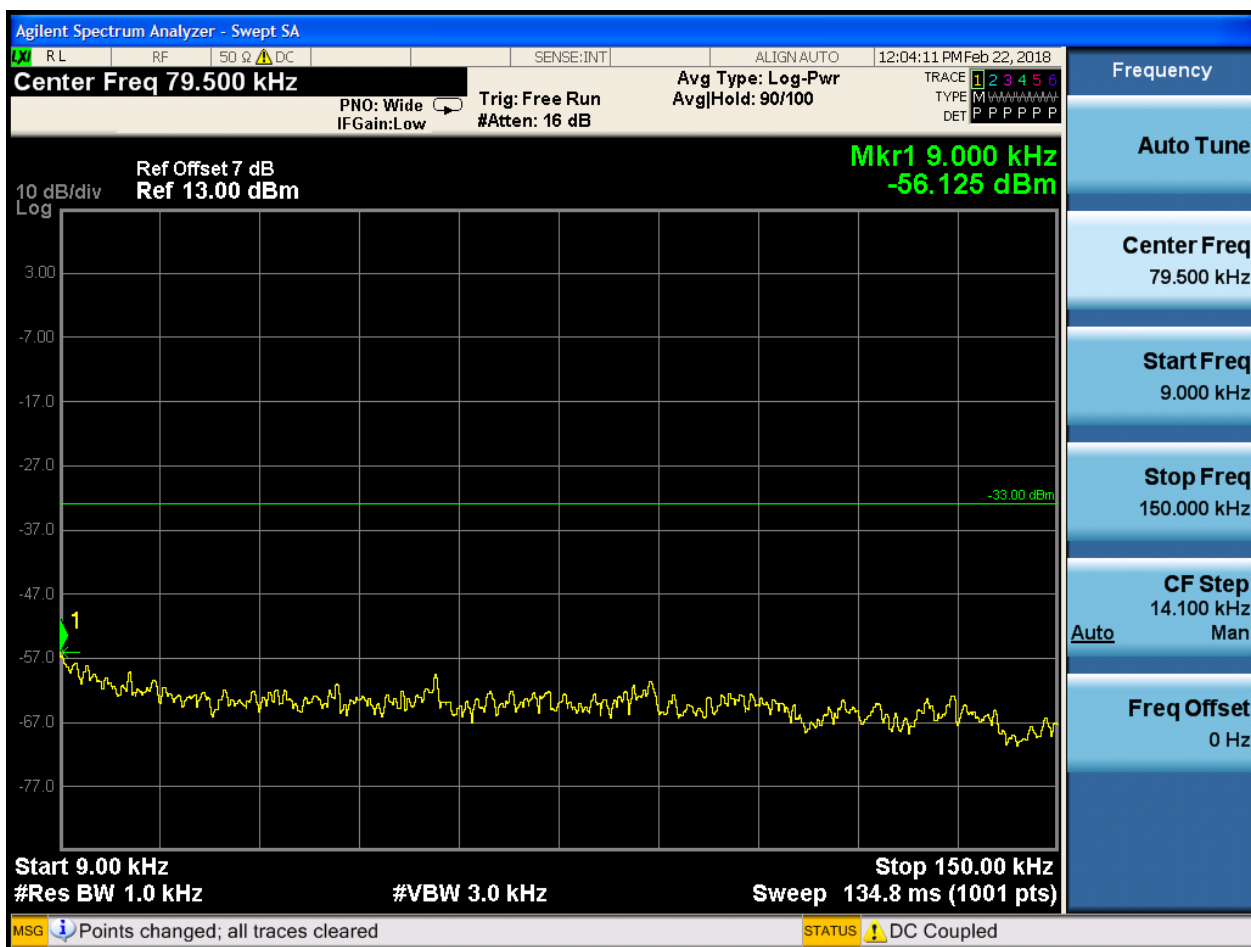


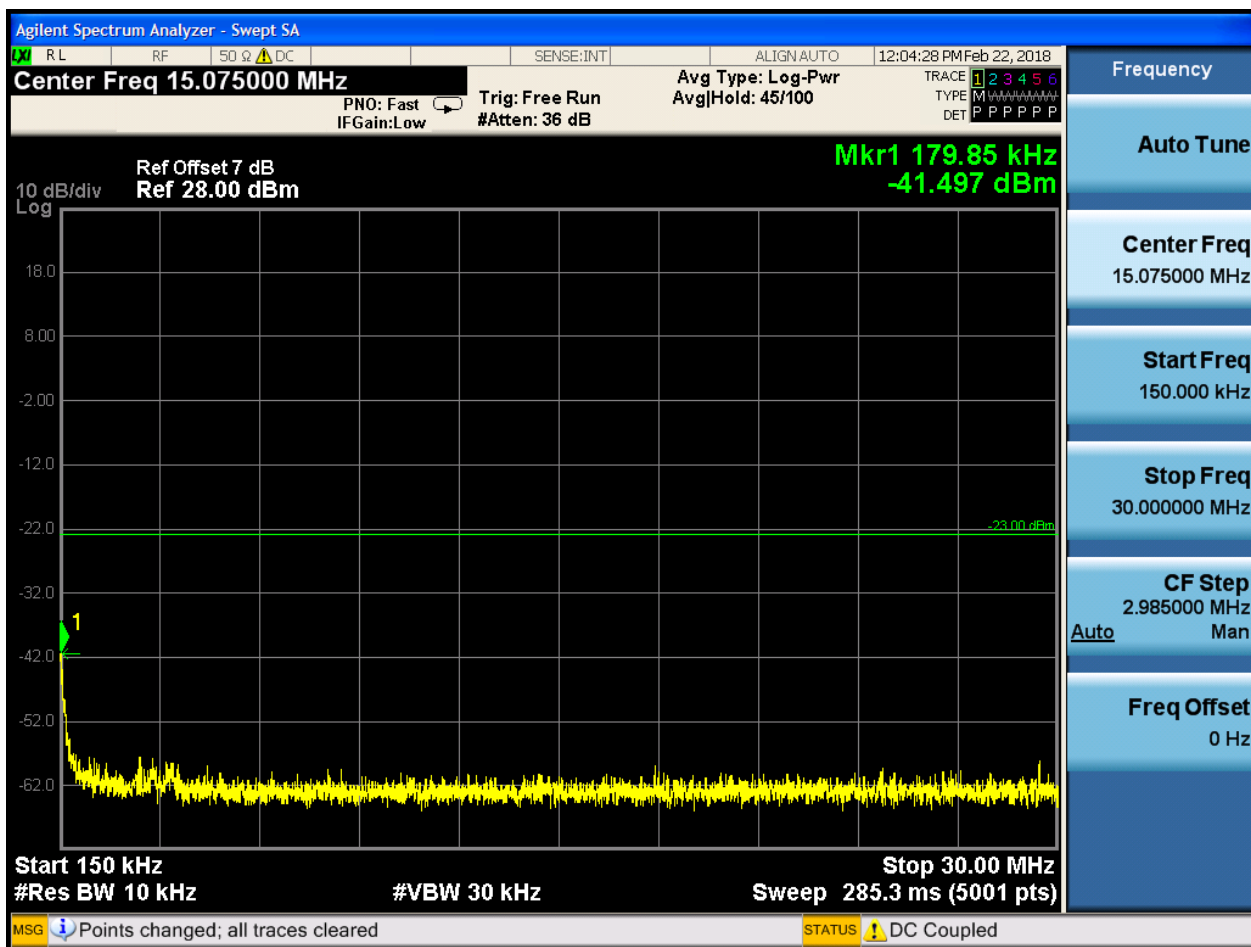


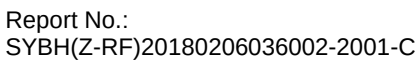
6.2.1.2.4 Test Bandwidth = 10

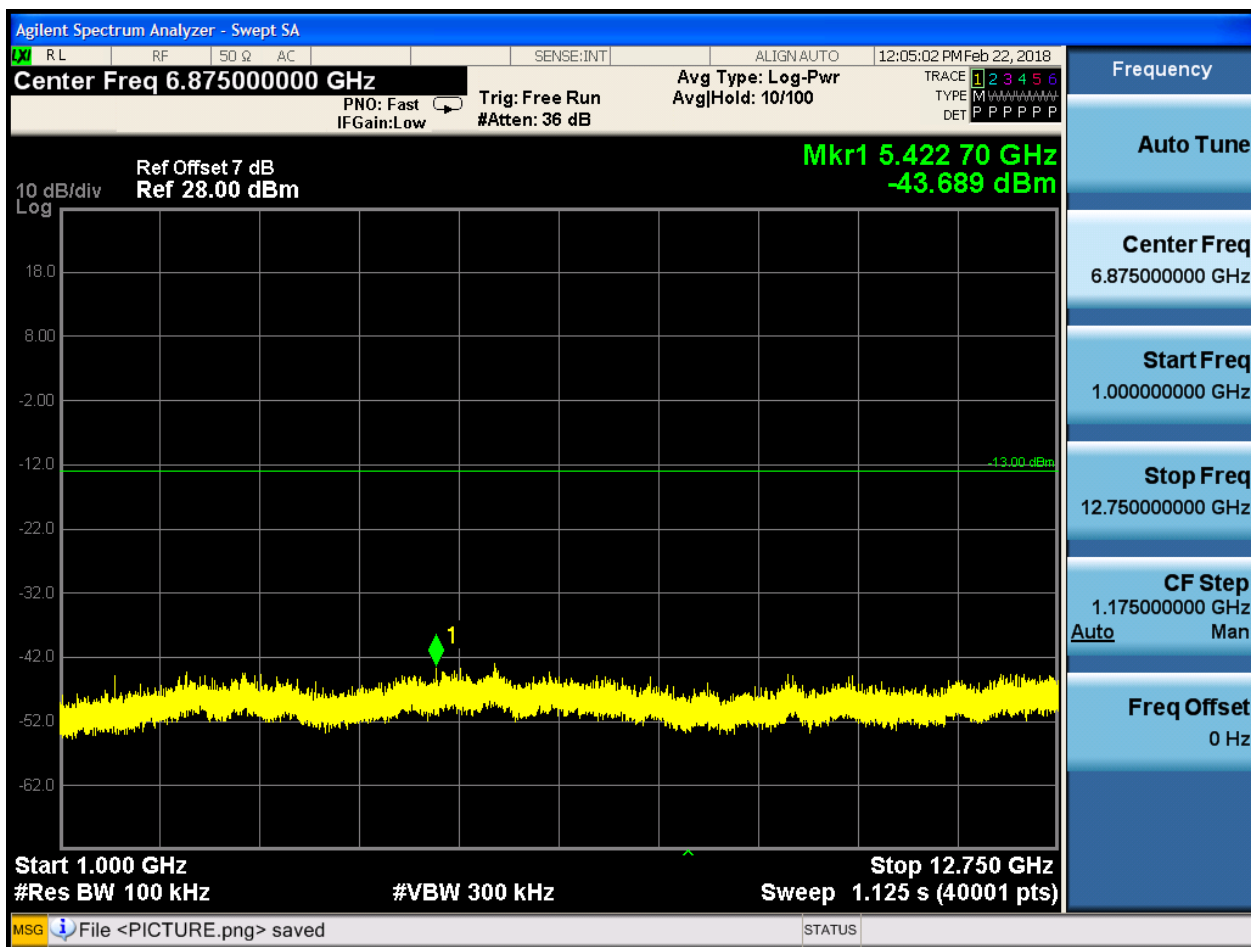
6.2.1.2.4.1 Test Channel = LCH

6.2.1.2.4.1.1 Test RB = RB1#0





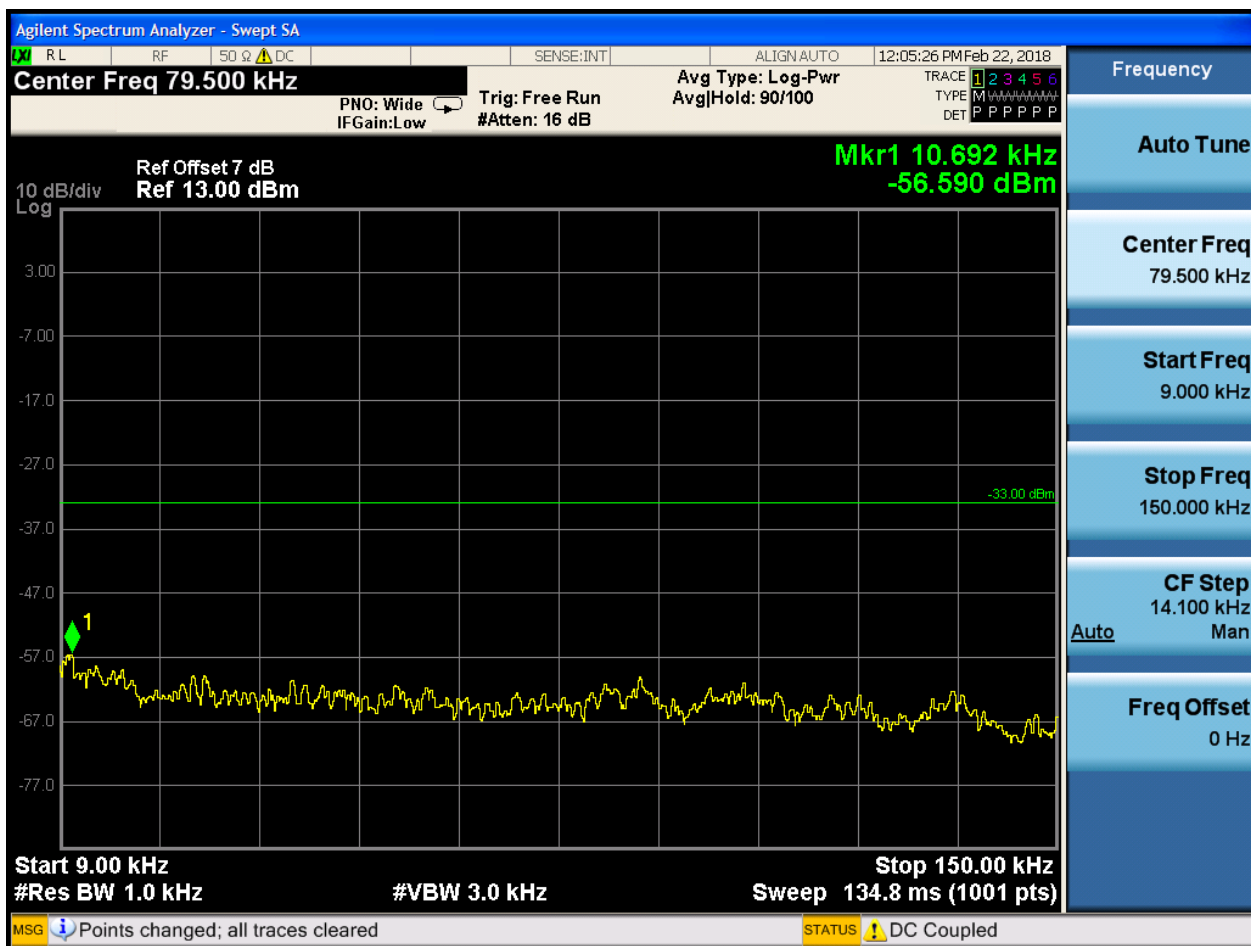


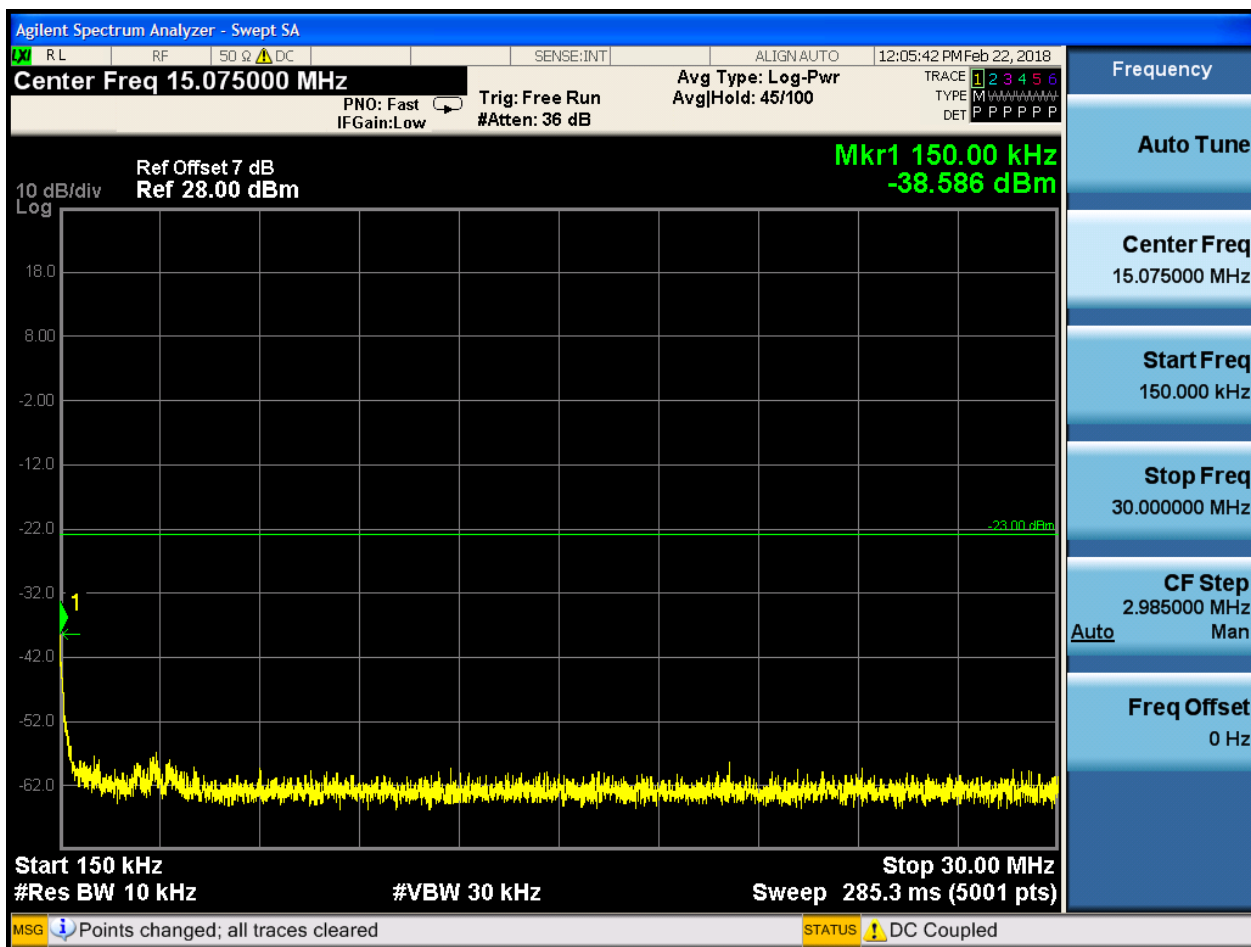


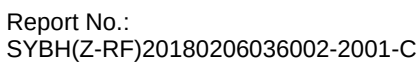
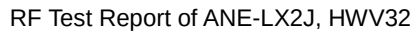


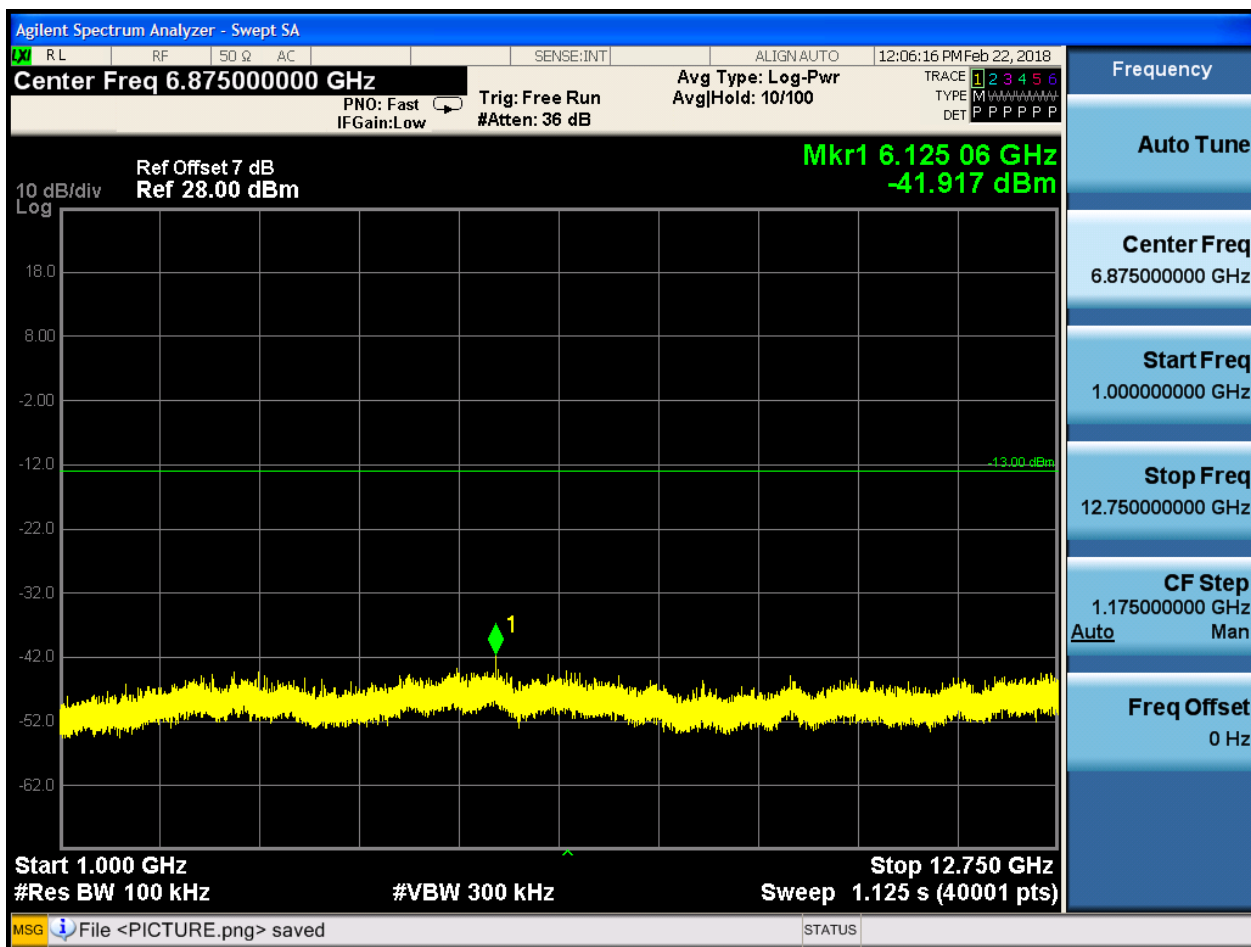
6.2.1.2.4.2 Test Channel = MCH

6.2.1.2.4.2.1 Test RB = RB1#0

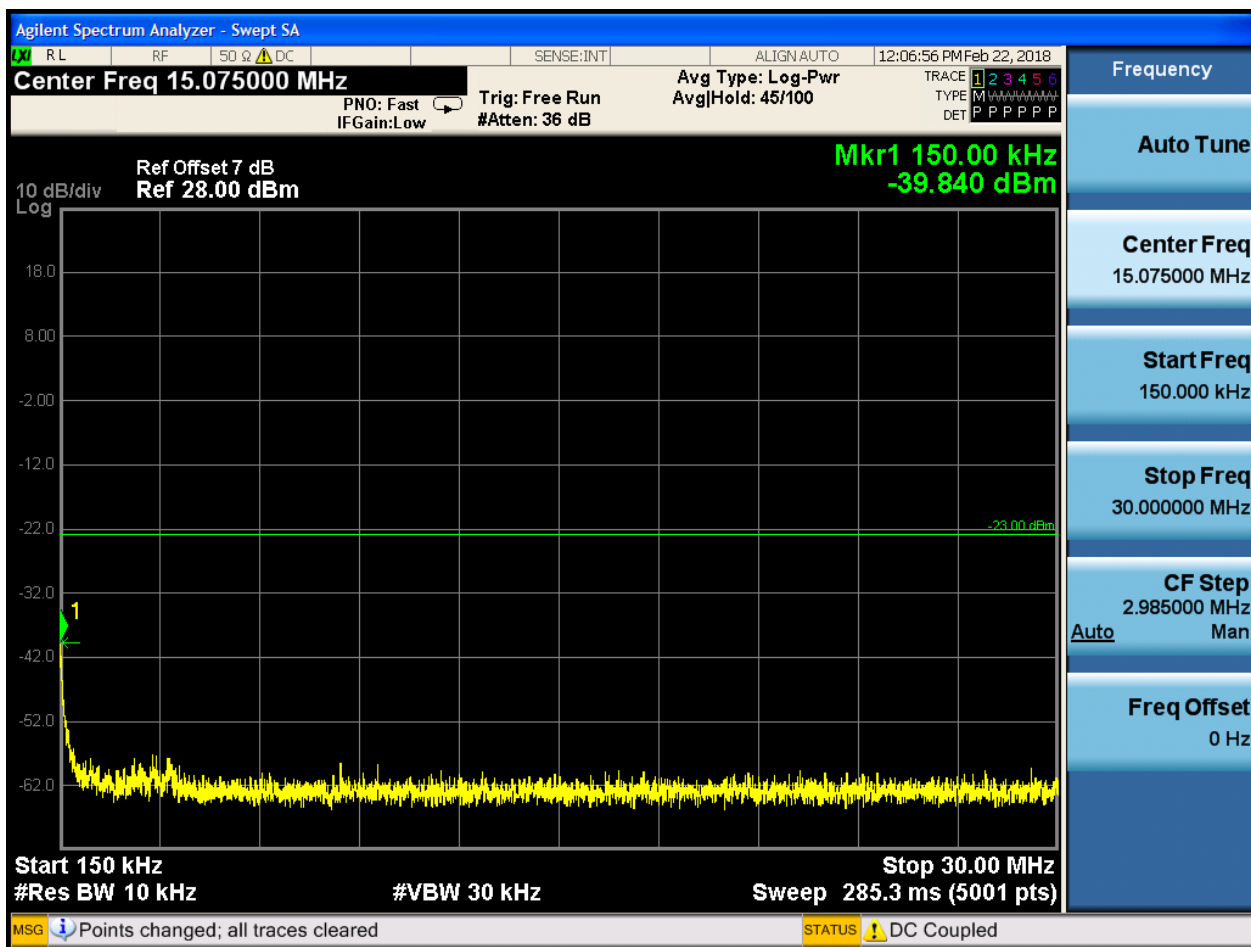


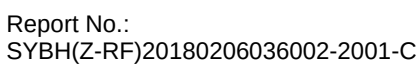
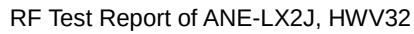


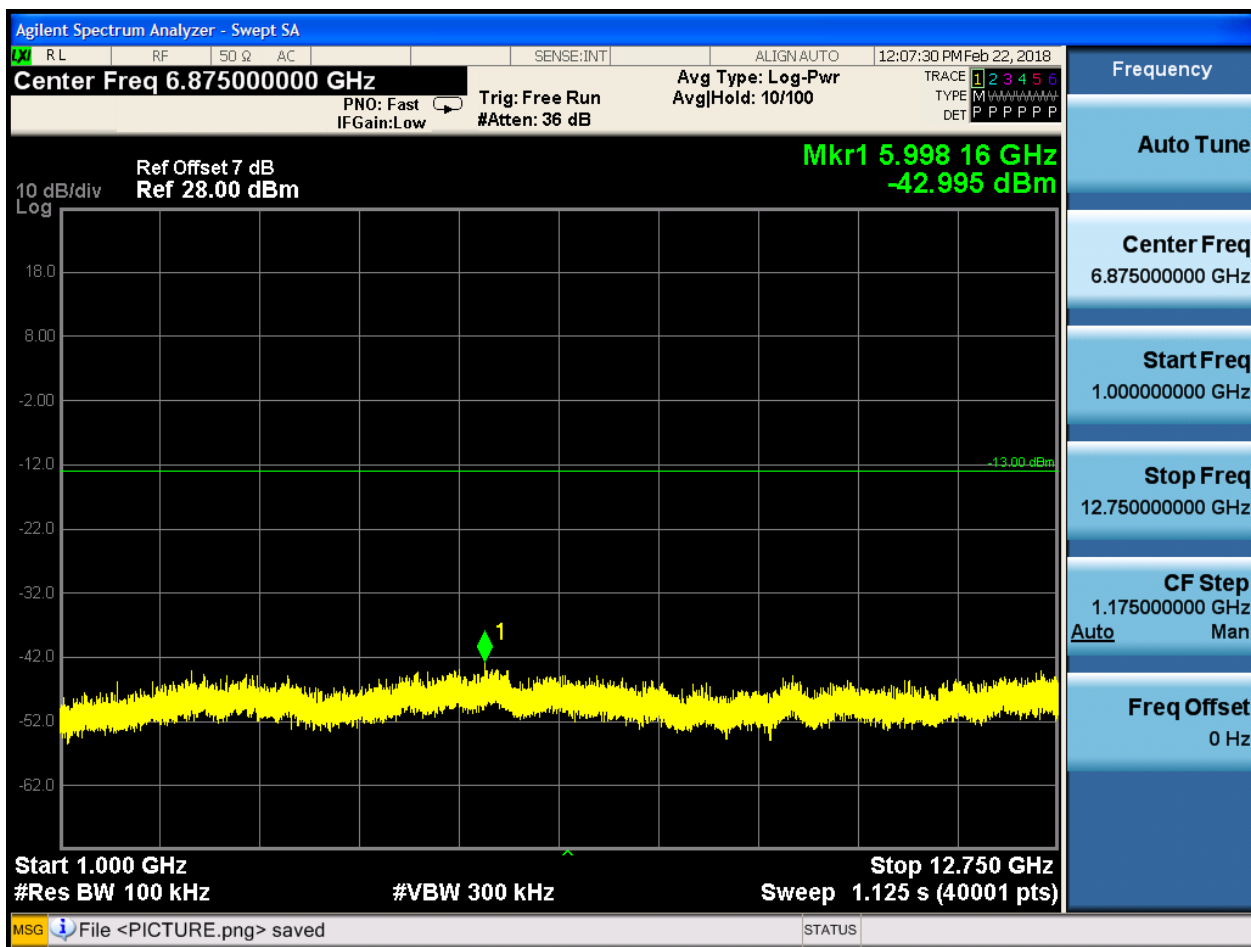














7Appendix_G: Field Strength of Spurious Radiation

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

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

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

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

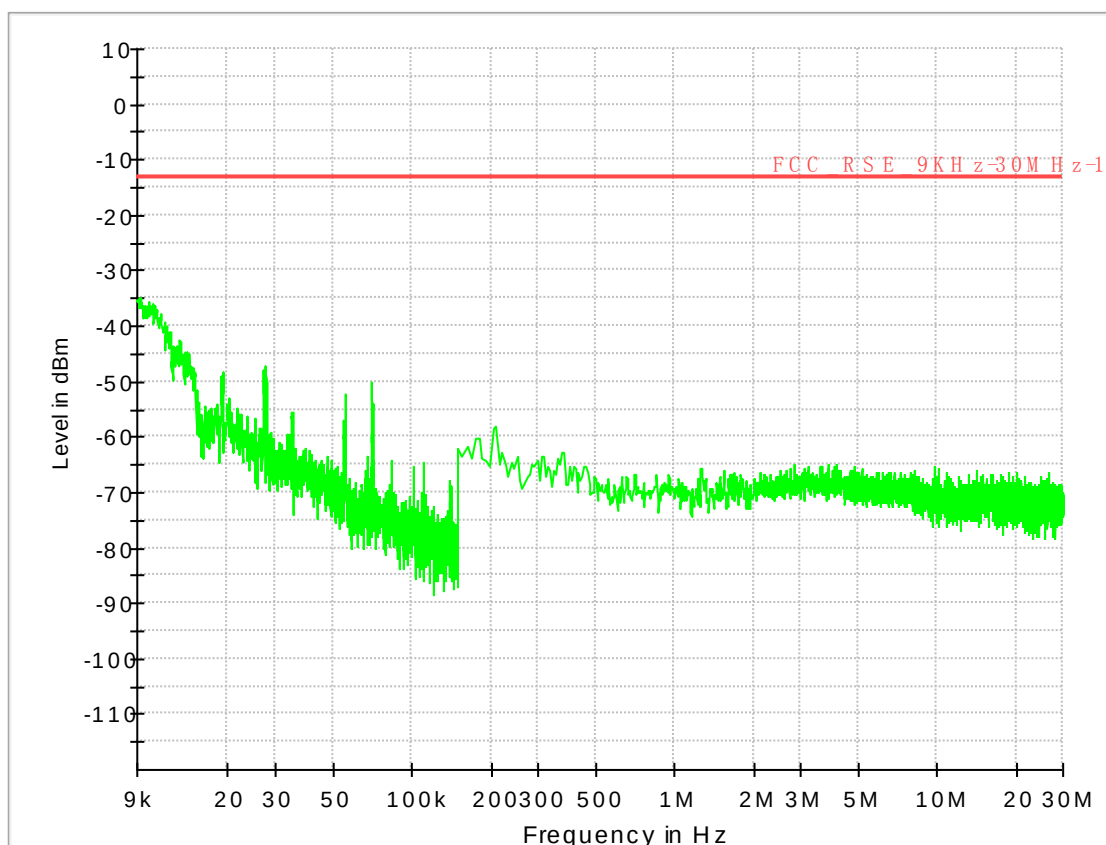
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Part I - Test Plots

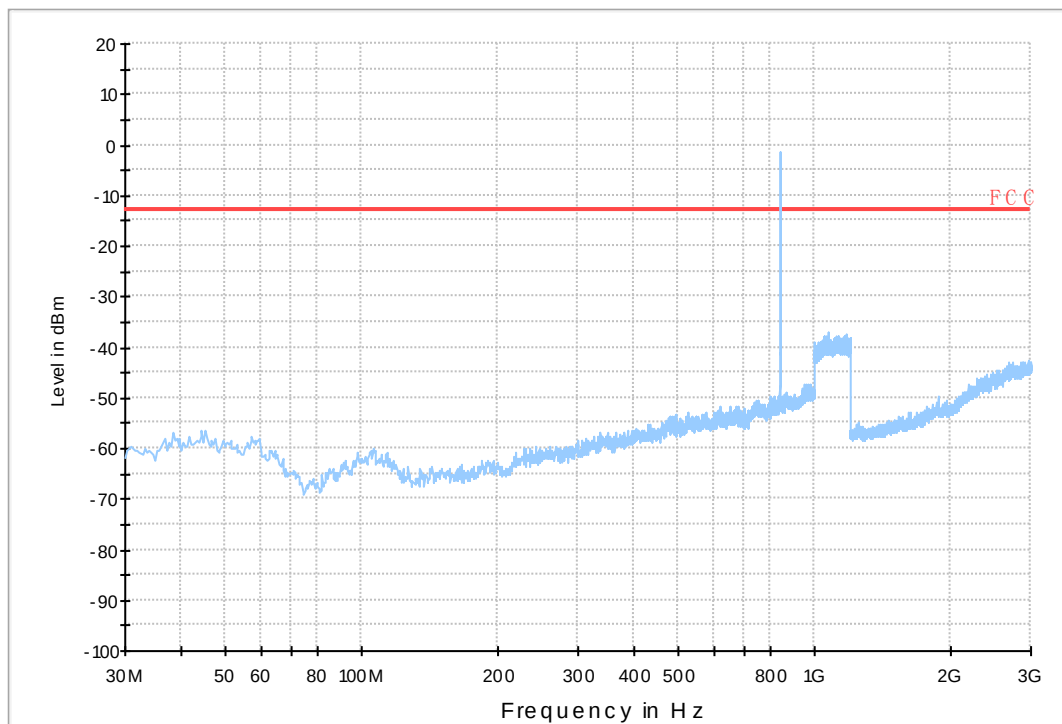
7.1 For LTE

7.1.1 Test Band = BAND5_ANT1

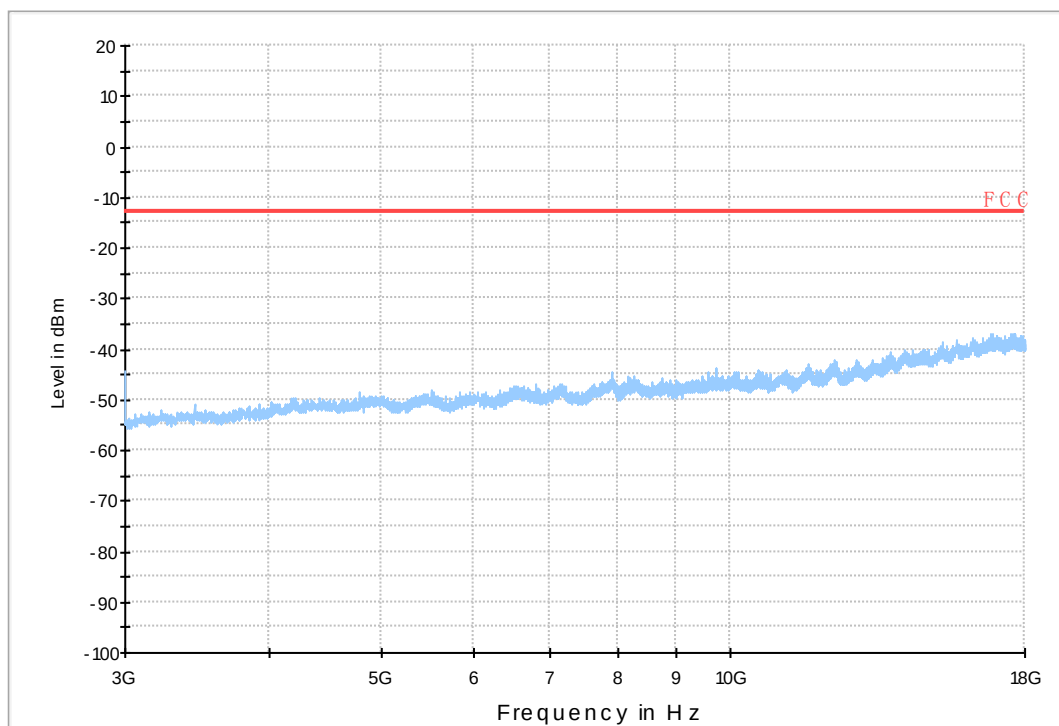
7.1.1.1 Test Bandwidth = 1.4



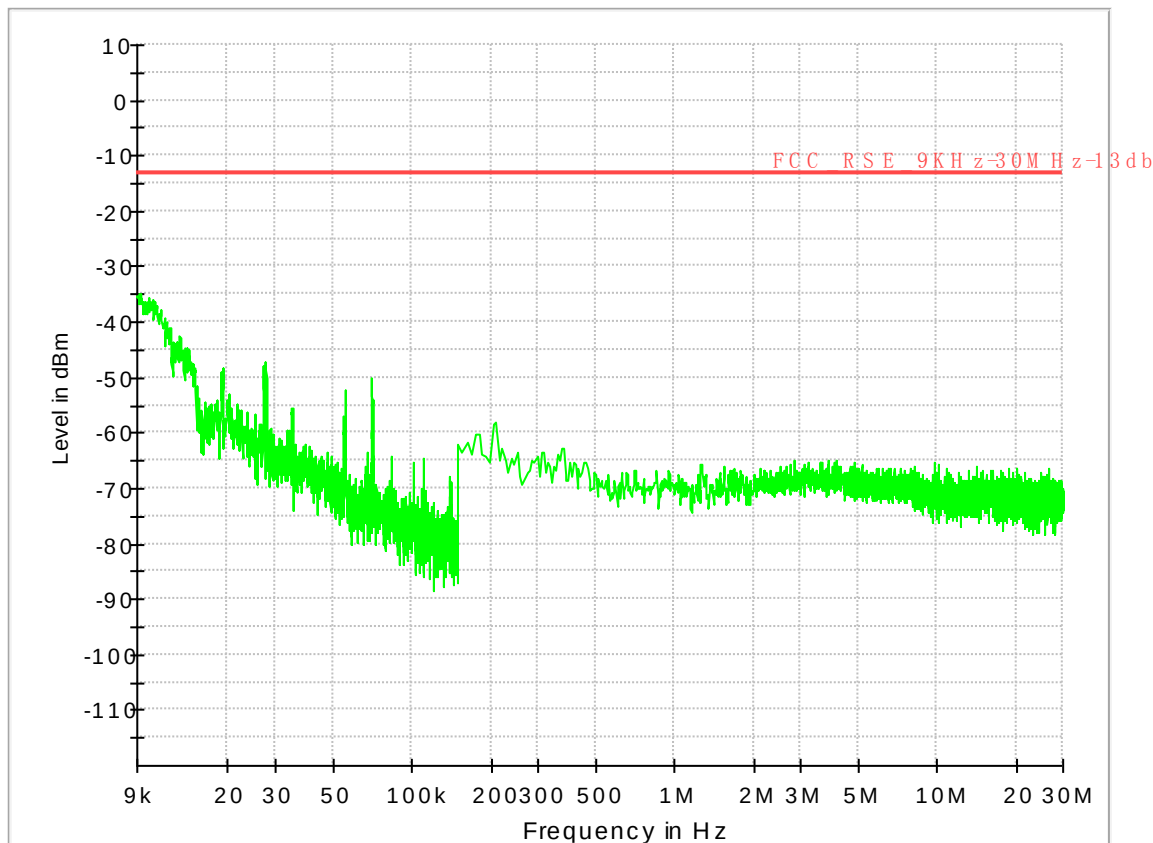
Copy of RSE-TX-DIRECTOR BELOW 1G_L



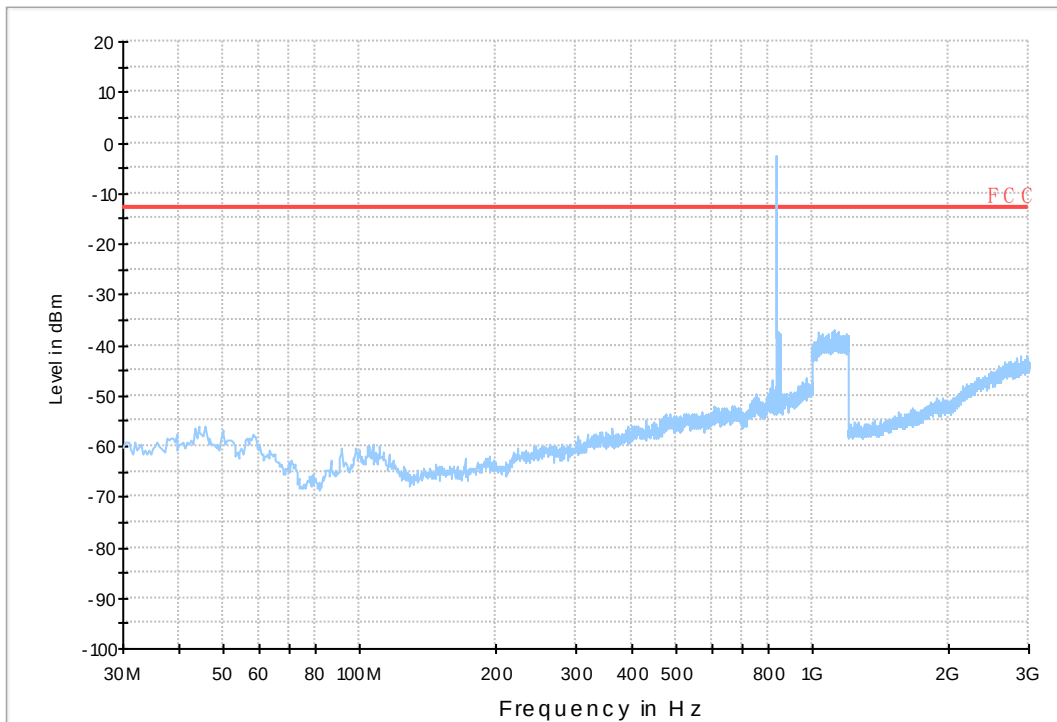
Copy of RSE-TX-DIRECTOR BELOW 1G_H



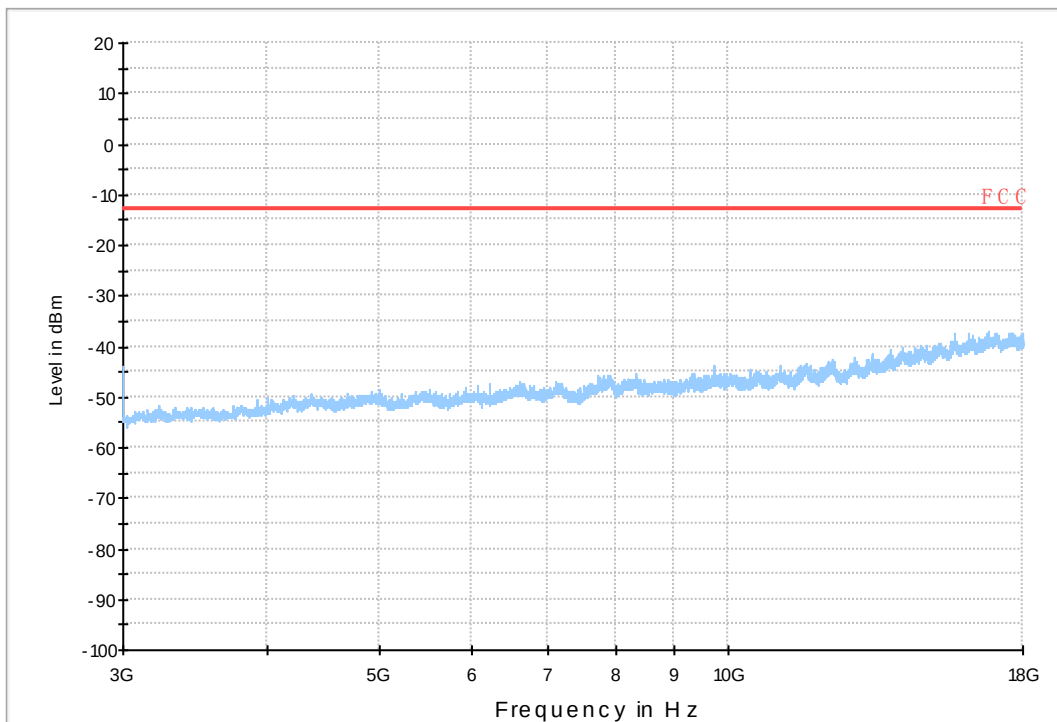
7.1.1.2 Test Bandwidth = 10



Copy of RSE-TX-DIRECTOR BELOW 1G_L

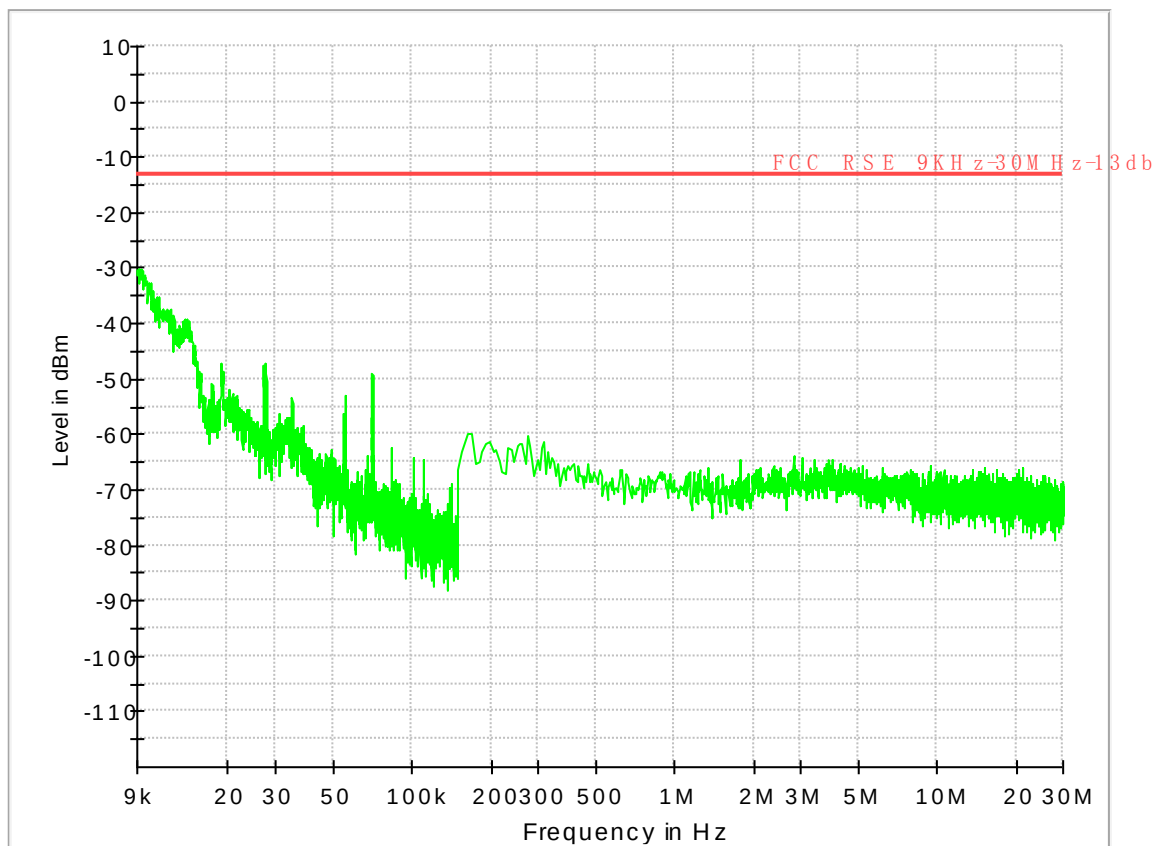


Copy of RSE-TX-DIRECTOR BELOW 1G_H

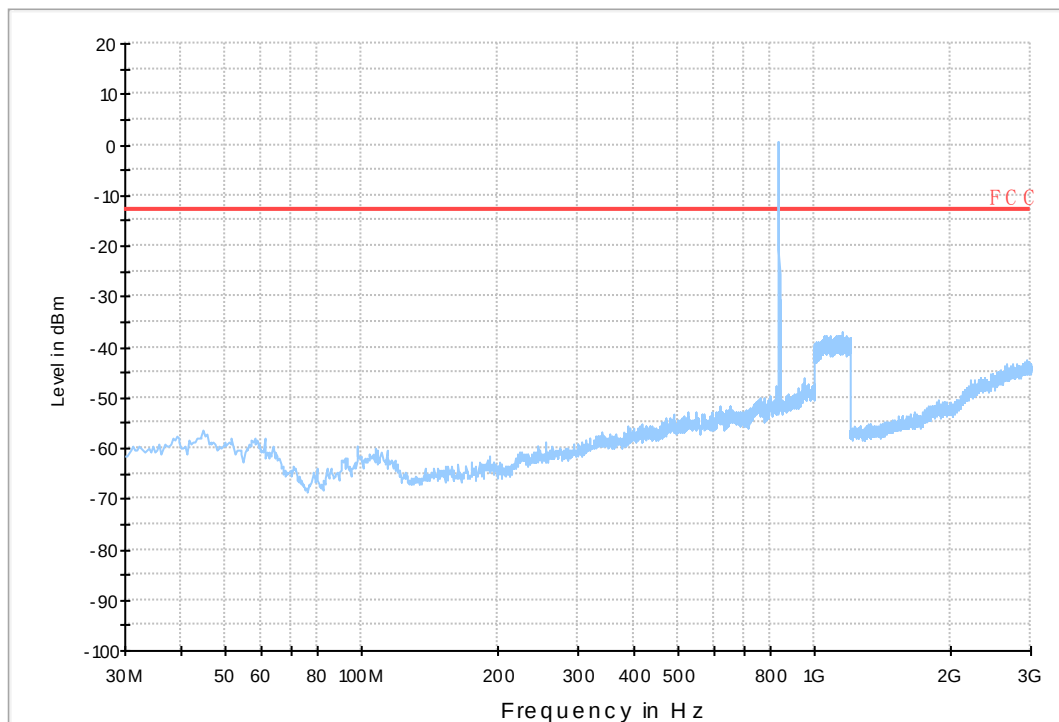


7.1.2 Test Band = BAND5_ANT2

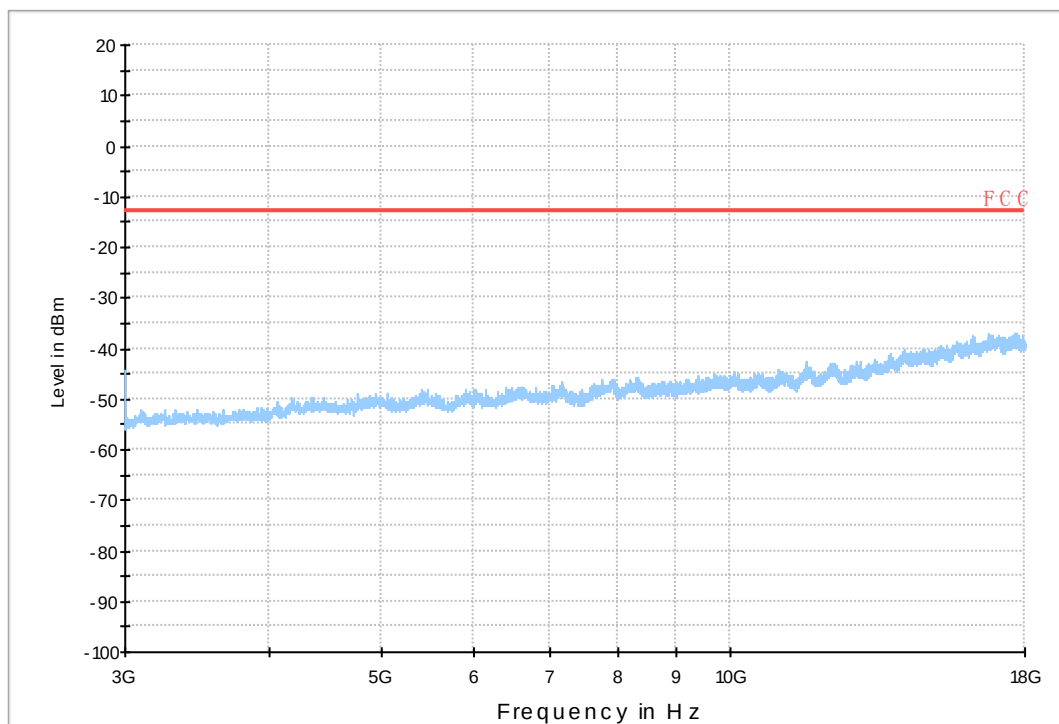
7.1.1.3 Test Bandwidth = 1.4



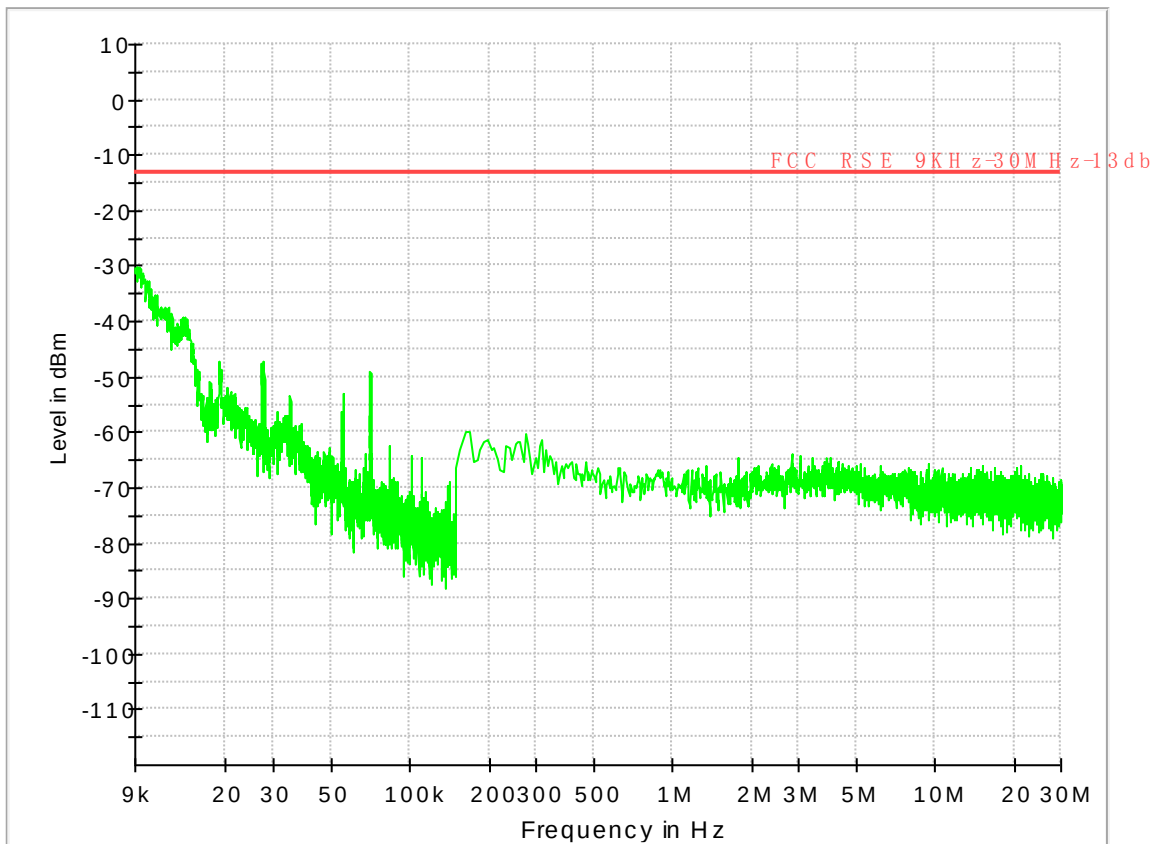
Copy of RSE-TX-DIRECTOR BELOW 1G_L



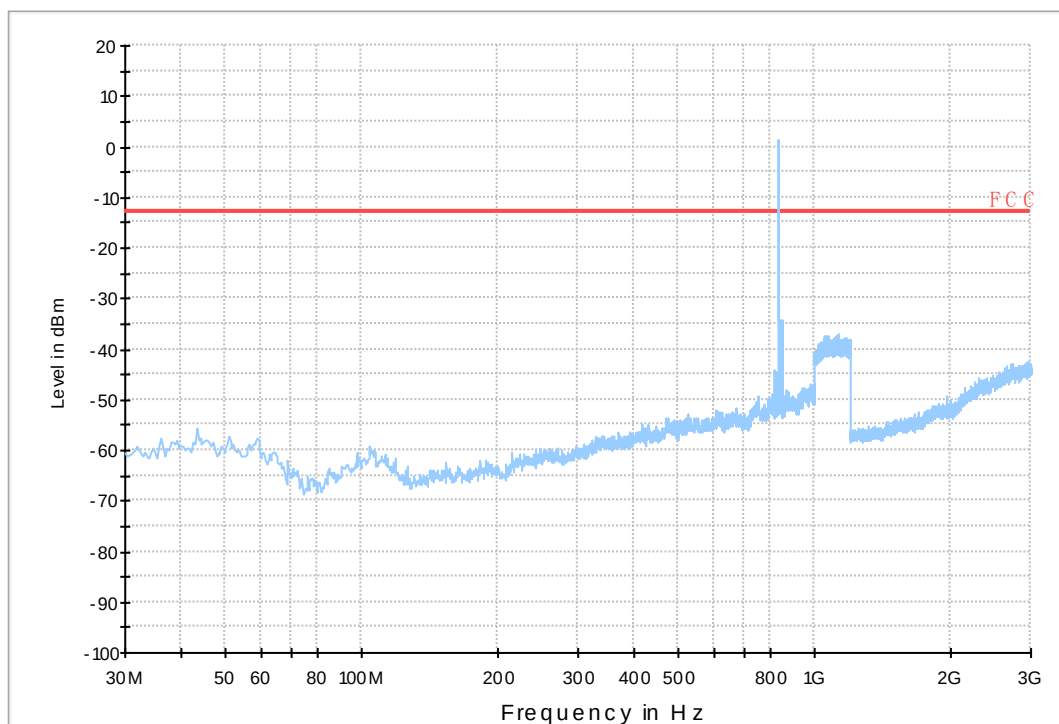
Copy of RSE-TX-DIRECTOR BELOW 1G_H



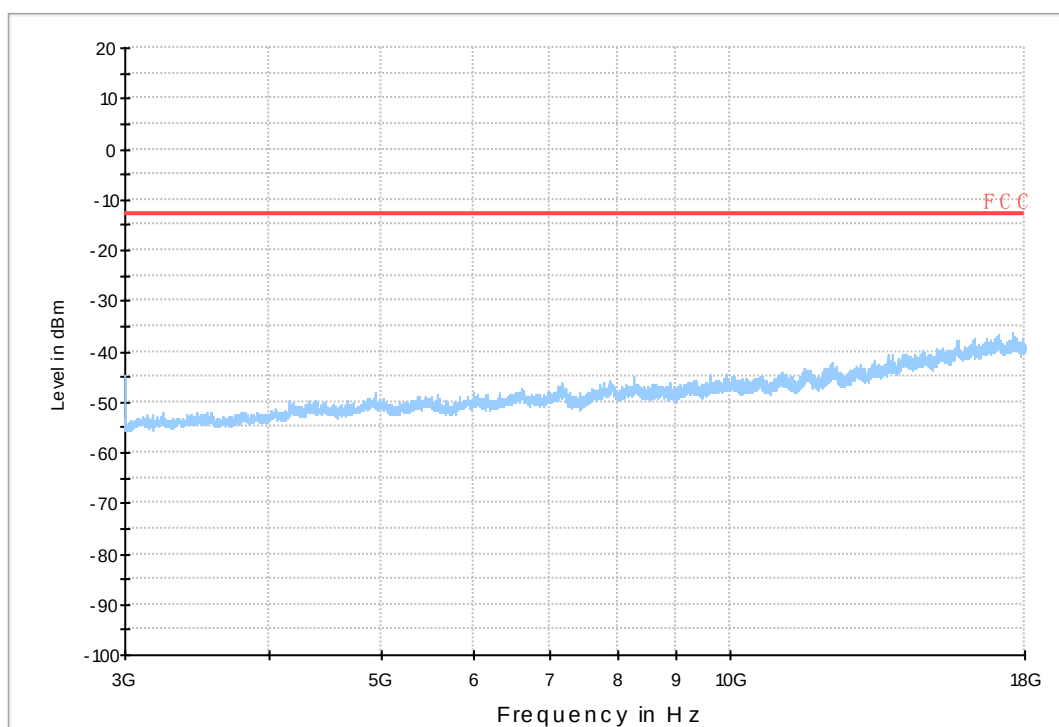
7.1.1.3 Test Bandwidth = 10



Copy of RSE-TX-DIRECTOR BELOW 1G_L



Copy of RSE-TX-DIRECTOR BELOW 1G_H



8Appendix_H: Frequency Stability

8.1 For LTE

8.1.1Frequency Error vs. Voltage:

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
BAND5	LTE/TM1	1.4	LCH	TN	VL	-6.85	-0.00831	PASS
					VN	-2.62	-0.00318	PASS
					VH	-19.80	-0.02401	PASS
			MCH	TN	VL	5.48	0.00655	PASS
					VN	10.74	0.01284	PASS
					VH	6.51	0.00778	PASS
			HCH	TN	VL	-4.25	-0.00501	PASS
					VN	2.12	0.0025	PASS
					VH	-3.85	-0.00454	PASS
		3	LCH	TN	VL	-1.29	-0.00156	PASS
					VN	3.58	0.00434	PASS
					VH	1.16	0.00141	PASS
			MCH	TN	VL	0.66	0.00079	PASS
					VN	-2.73	-0.00326	PASS
					VH	0.03	0.00004	PASS
			HCH	TN	VL	0.01	0.00001	PASS
					VN	-2.09	-0.00247	PASS
					VH	-3.56	-0.0042	PASS
		5	LCH	TN	VL	1.09	0.00132	PASS
					VN	2.86	0.00346	PASS
					VH	0.72	0.00087	PASS
			MCH	TN	VL	-4.13	-0.00494	PASS
					VN	-3.85	-0.0046	PASS
					VH	-5.35	-0.0064	PASS
			HCH	TN	VL	-3.96	-0.00468	PASS
					VN	-2.05	-0.00242	PASS
					VH	-5.26	-0.00621	PASS
		10	LCH	TN	VL	1.73	0.00209	PASS
					VN	-1.13	-0.00136	PASS
					VH	1.29	0.00156	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
	LTE/TM2		MCH	TN	VL	-6.29	-0.00752	PASS
					VN	-1.93	-0.00231	PASS
					VH	-4.03	-0.00482	PASS
			HCH	TN	VL	3.71	0.0044	PASS
					VN	4.29	0.00508	PASS
					VH	5.04	0.00597	PASS
		1.4	LCH	TN	VL	1.96	0.00238	PASS
					VN	-25.53	-0.03096	PASS
					VH	3.03	0.00367	PASS
			MCH	TN	VL	-0.13	-0.00016	PASS
					VN	3.39	0.00405	PASS
					VH	0.06	0.00007	PASS
			HCH	TN	VL	-2.29	-0.0027	PASS
					VN	0.27	0.00032	PASS
					VH	-6.64	-0.00783	PASS
		3	LCH	TN	VL	1.16	0.00141	PASS
					VN	2.46	0.00298	PASS
					VH	-1.39	-0.00168	PASS
			MCH	TN	VL	-0.79	-0.00094	PASS
					VN	0.26	0.00031	PASS
					VH	-0.79	-0.00094	PASS
			HCH	TN	VL	-1.90	-0.00224	PASS
					VN	-3.22	-0.0038	PASS
					VH	-1.50	-0.00177	PASS
		5	LCH	TN	VL	0.57	0.00069	PASS
					VN	1.44	0.00174	PASS
					VH	1.76	0.00213	PASS
			MCH	TN	VL	-10.36	-0.01238	PASS
					VN	-12.03	-0.01438	PASS
					VH	-7.47	-0.00893	PASS
			HCH	TN	VL	-5.52	-0.00652	PASS
					VN	-5.44	-0.00643	PASS
					VH	0.07	0.00008	PASS
		10	LCH	TN	VL	0.34	0.00041	PASS
					VN	-1.63	-0.00197	PASS
					VH	3.58	0.00432	PASS
			MCH	TN	VL	-3.63	-0.00434	PASS
					VN	-2.63	-0.00314	PASS
					VH	-0.06	-0.00007	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
			HCH	TN	VL	2.50	0.00296	PASS
					VN	3.91	0.00463	PASS
					VH	6.44	0.00763	PASS

8.1.2 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
BAND5	LTE/TM1	1.4	LCH	VN	-30	-8.38	-0.01016	PASS
					-20	-0.17	-0.00021	PASS
					-10	-64.23	-0.07788	PASS
					0	6.35	0.0077	PASS
					10	-8.84	-0.01072	PASS
					20	3.00	0.00364	PASS
					30	19.66	0.02384	PASS
					40	8.61	0.01044	PASS
					50	-8.17	-0.00991	PASS
			MCH	VN	-30	11.07	0.01323	PASS
					-20	9.58	0.01145	PASS
					-10	-2.57	-0.00307	PASS
					0	3.09	0.00369	PASS
					10	-0.43	-0.00051	PASS
					20	6.31	0.00754	PASS
					30	-3.22	-0.00385	PASS
					40	-13.80	-0.0165	PASS
					50	-0.73	-0.00087	PASS
			HCH	VN	-30	-1.49	-0.00176	PASS
					-20	-3.22	-0.0038	PASS
					-10	-6.72	-0.00792	PASS
					0	-3.45	-0.00407	PASS
					10	-6.12	-0.00721	PASS
					20	-3.91	-0.00461	PASS
					30	-2.32	-0.00273	PASS
					40	1.06	0.00125	PASS
					50	-2.68	-0.00316	PASS
		3	LCH	VN	-30	4.96	0.00601	PASS
					-20	1.06	0.00128	PASS
					-10	2.60	0.00315	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					0	-0.17	-0.00021	PASS
					10	2.39	0.0029	PASS
					20	1.02	0.00124	PASS
					30	-0.70	-0.00085	PASS
					40	-1.43	-0.00173	PASS
					50	0.40	0.00048	PASS
			MCH	VN	-30	-1.57	-0.00188	PASS
					-20	1.80	0.00215	PASS
					-10	0.09	0.00011	PASS
					0	-3.10	-0.00371	PASS
					10	0.23	0.00027	PASS
					20	-0.86	-0.00103	PASS
					30	-0.97	-0.00116	PASS
					40	0.03	0.00004	PASS
					50	-2.37	-0.00283	PASS
			HCH	VN	-30	-4.58	-0.0054	PASS
					-20	-5.45	-0.00643	PASS
					-10	-0.21	-0.00025	PASS
					0	-10.03	-0.01183	PASS
					10	-2.82	-0.00333	PASS
					20	-1.17	-0.00138	PASS
					30	-4.22	-0.00498	PASS
					40	-4.18	-0.00493	PASS
					50	-1.82	-0.00215	PASS
		5	LCH	VN	-30	4.89	0.00592	PASS
					-20	3.71	0.00449	PASS
					-10	0.66	0.0008	PASS
					0	-1.30	-0.00157	PASS
					10	0.06	0.00007	PASS
					20	0.90	0.00109	PASS
					30	0.59	0.00071	PASS
					40	-2.90	-0.00351	PASS
					50	-0.03	-0.00004	PASS
			MCH	VN	-30	-9.76	-0.01167	PASS
					-20	-11.96	-0.0143	PASS
					-10	-3.60	-0.0043	PASS
					0	-4.25	-0.00508	PASS
					10	-8.38	-0.01002	PASS
					20	-8.68	-0.01038	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					30	-13.58	-0.01623	PASS
					40	0.64	0.00077	PASS
					50	-4.52	-0.0054	PASS
			HCH	VN	-30	-1.67	-0.00197	PASS
					-20	-1.92	-0.00227	PASS
					-10	-1.24	-0.00146	PASS
					0	-0.64	-0.00076	PASS
					10	-6.29	-0.00743	PASS
					20	-5.48	-0.00647	PASS
					30	-2.78	-0.00328	PASS
					40	-2.57	-0.00304	PASS
					50	-3.16	-0.00373	PASS
		10	LCH	VN	-30	0.30	0.00036	PASS
					-20	1.79	0.00216	PASS
					-10	2.10	0.00253	PASS
					0	-2.13	-0.00257	PASS
					10	1.49	0.0018	PASS
					20	2.79	0.00337	PASS
					30	2.09	0.00252	PASS
					40	-1.52	-0.00183	PASS
					50	-1.63	-0.00197	PASS
			MCH	VN	-30	-2.76	-0.0033	PASS
					-20	-4.35	-0.0052	PASS
					-10	-4.26	-0.00509	PASS
					0	-0.44	-0.00053	PASS
					10	-2.55	-0.00305	PASS
					20	-4.16	-0.00497	PASS
					30	-3.25	-0.00389	PASS
					40	-5.46	-0.00653	PASS
					50	-1.36	-0.00163	PASS
			HCH	VN	-30	2.10	0.00249	PASS
					-20	4.19	0.00496	PASS
					-10	-0.31	-0.00037	PASS
					0	1.97	0.00233	PASS
					10	2.17	0.00257	PASS
					20	4.45	0.00527	PASS
					30	4.49	0.00532	PASS
					40	2.90	0.00344	PASS
					50	3.28	0.00389	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
	LTE/TM2	1.4	LCH	VN	-30	6.84	0.00829	PASS
					-20	24.85	0.03013	PASS
					-10	-2.49	-0.00302	PASS
					0	8.04	0.00975	PASS
					10	-3.59	-0.00435	PASS
					20	3.10	0.00376	PASS
					30	-5.08	-0.00616	PASS
					40	-4.46	-0.00541	PASS
					50	18.00	0.02183	PASS
			MCH	VN	-30	0.19	0.00023	PASS
					-20	-1.96	-0.00234	PASS
					-10	15.72	0.01879	PASS
					0	-5.56	-0.00665	PASS
					10	-72.56	-0.08674	PASS
					20	0.37	0.00044	PASS
					30	12.37	0.01479	PASS
					40	-6.18	-0.00739	PASS
					50	-1.97	-0.00236	PASS
			HCH	VN	-30	-3.33	-0.00393	PASS
					-20	-7.20	-0.00849	PASS
					-10	1.36	0.0016	PASS
					0	1.32	0.00156	PASS
					10	-5.51	-0.0065	PASS
					20	-1.20	-0.00141	PASS
					30	-5.09	-0.006	PASS
					40	-2.63	-0.0031	PASS
					50	-1.17	-0.00138	PASS
		3	LCH	VN	-30	1.29	0.00156	PASS
					-20	0.72	0.00087	PASS
					-10	4.52	0.00548	PASS
					0	-0.59	-0.00071	PASS
					10	-1.17	-0.00142	PASS
					20	2.12	0.00257	PASS
					30	0.77	0.00093	PASS
					40	-1.57	-0.0019	PASS
					50	1.26	0.00153	PASS
			MCH	VN	-30	-2.93	-0.0035	PASS
					-20	-1.06	-0.00127	PASS
					-10	-1.99	-0.00238	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					0	-2.19	-0.00262	PASS
					10	-2.82	-0.00337	PASS
					20	-2.26	-0.0027	PASS
					30	-1.29	-0.00154	PASS
					40	-3.00	-0.00359	PASS
					50	-0.10	-0.00012	PASS
			HCH	VN	-30	-5.54	-0.00654	PASS
					-20	-0.76	-0.0009	PASS
					-10	-3.93	-0.00464	PASS
					0	-2.82	-0.00333	PASS
					10	-4.79	-0.00565	PASS
					20	-5.49	-0.00648	PASS
					30	-3.10	-0.00366	PASS
					40	-1.65	-0.00195	PASS
					50	-2.12	-0.0025	PASS
		5	LCH	VN	-30	2.68	0.00324	PASS
					-20	1.44	0.00174	PASS
					-10	-0.14	-0.00017	PASS
					0	-1.56	-0.00189	PASS
					10	-0.24	-0.00029	PASS
					20	-0.94	-0.00114	PASS
					30	1.43	0.00173	PASS
					40	1.66	0.00201	PASS
					50	0.09	0.00011	PASS
			MCH	VN	-30	-1.53	-0.00183	PASS
					-20	-11.43	-0.01366	PASS
					-10	-5.15	-0.00616	PASS
					0	-5.42	-0.00648	PASS
					10	-6.15	-0.00735	PASS
					20	-15.84	-0.01894	PASS
					30	-11.92	-0.01425	PASS
					40	-0.59	-0.00071	PASS
					50	1.04	0.00124	PASS
			HCH	VN	-30	-1.80	-0.00213	PASS
					-20	-3.09	-0.00365	PASS
					-10	-1.62	-0.00191	PASS
					0	-2.13	-0.00252	PASS
					10	-1.56	-0.00184	PASS
					20	-3.50	-0.00413	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
		10			30	-0.73	-0.00086	PASS
					40	0.53	0.00063	PASS
					50	-3.78	-0.00447	PASS
			LCH	VN	-30	1.16	0.0014	PASS
					-20	-0.96	-0.00116	PASS
					-10	1.60	0.00193	PASS
					0	-1.13	-0.00136	PASS
					10	3.45	0.00416	PASS
					20	0.59	0.00071	PASS
					30	0.11	0.00013	PASS
					40	-2.42	-0.00292	PASS
					50	-2.32	-0.0028	PASS
			MCH	VN	-30	-5.85	-0.00699	PASS
					-20	-7.40	-0.00885	PASS
					-10	-2.30	-0.00275	PASS
					0	-6.37	-0.00762	PASS
					10	-6.15	-0.00735	PASS
					20	-3.10	-0.00371	PASS
					30	-3.76	-0.00449	PASS
					40	-2.60	-0.00311	PASS
					50	-2.26	-0.0027	PASS
			HCH	VN	-30	4.91	0.00582	PASS
					-20	-0.46	-0.00055	PASS
					-10	1.29	0.00153	PASS
					0	4.78	0.00566	PASS
					10	3.40	0.00403	PASS
					20	6.01	0.00712	PASS
					30	2.12	0.00251	PASS
					40	3.59	0.00425	PASS
					50	-1.20	-0.00142	PASS

END