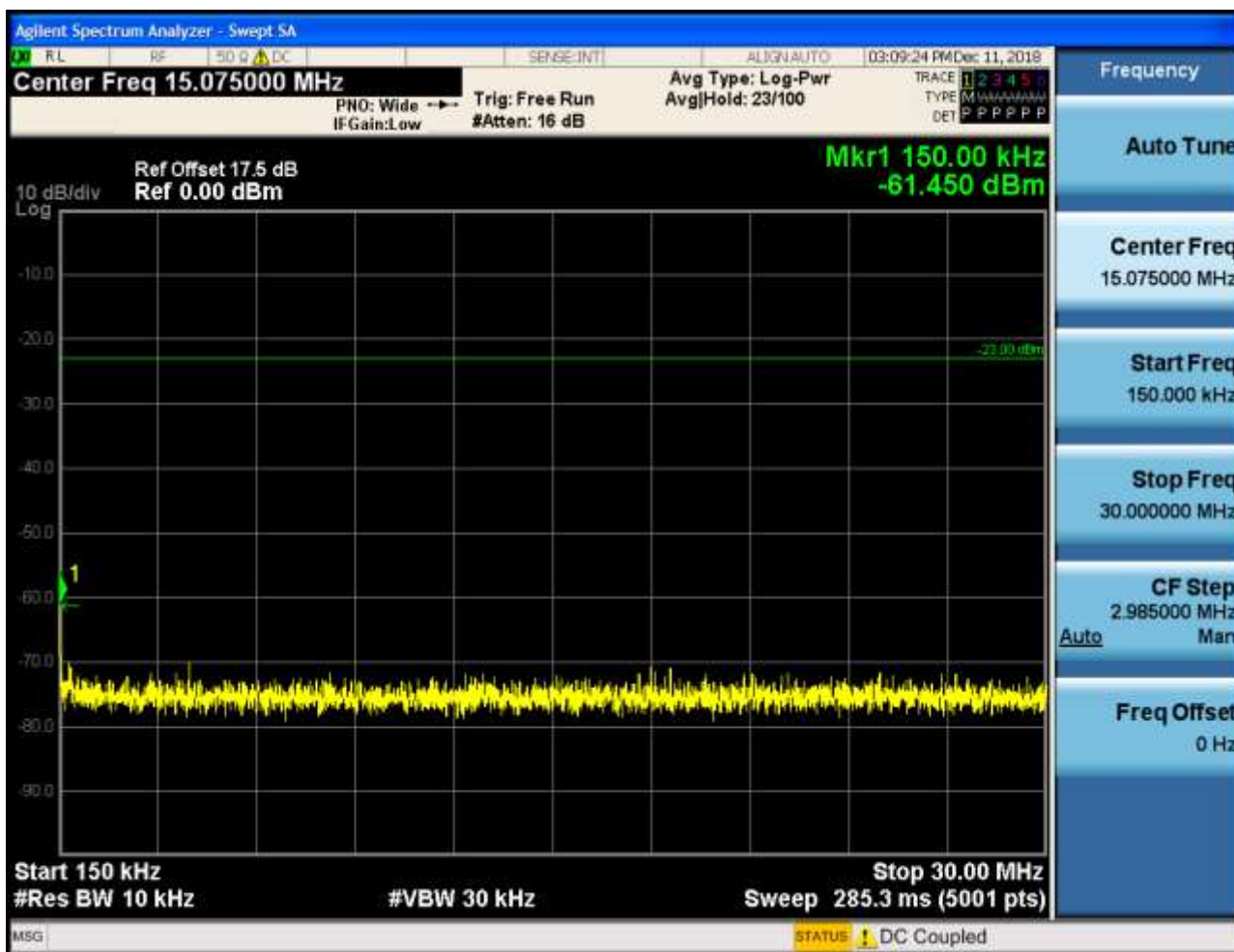
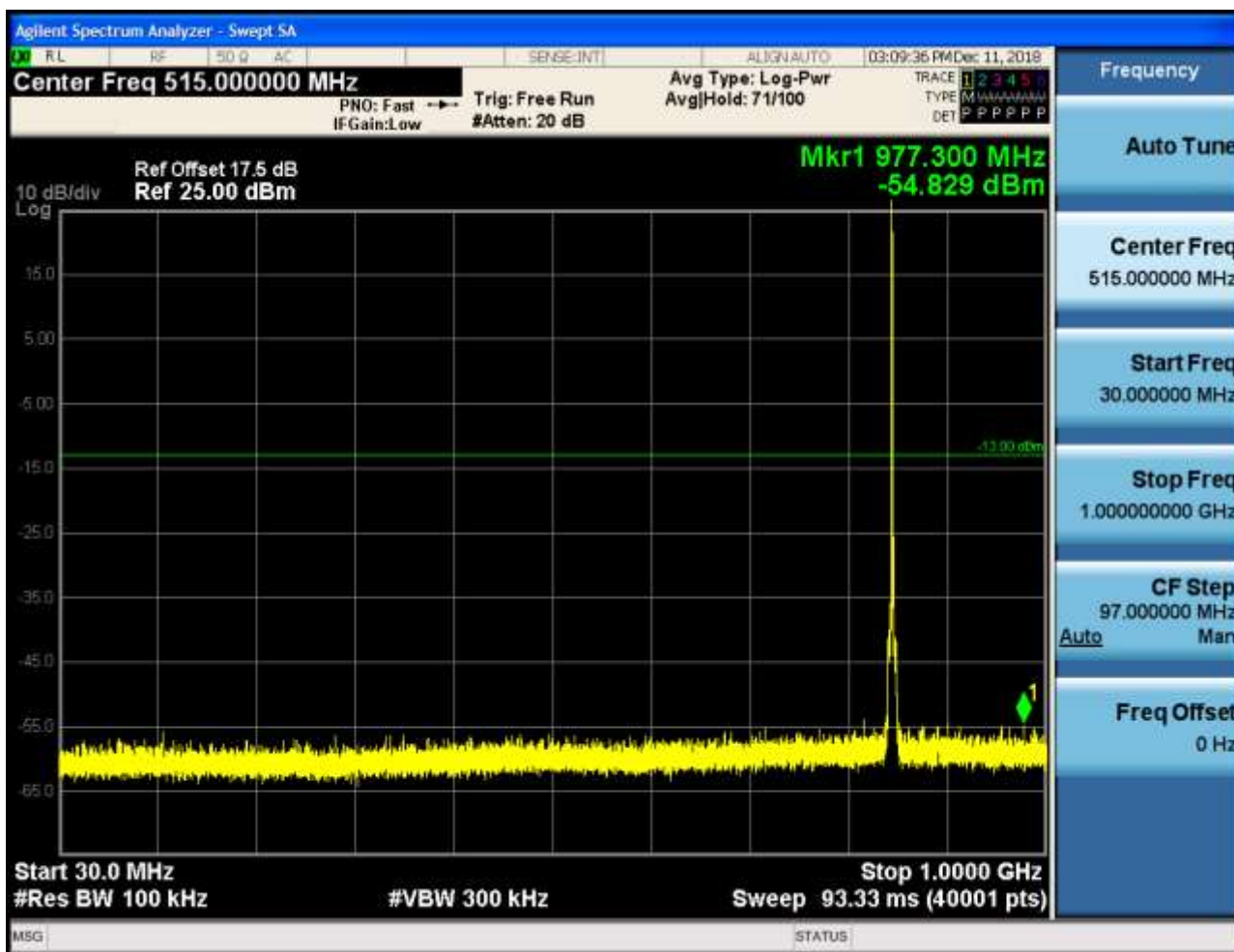


6.1.1.1.1.3 Test Channel = HCH

6.1.1.1.1.3.1 Test RB = RB1#0









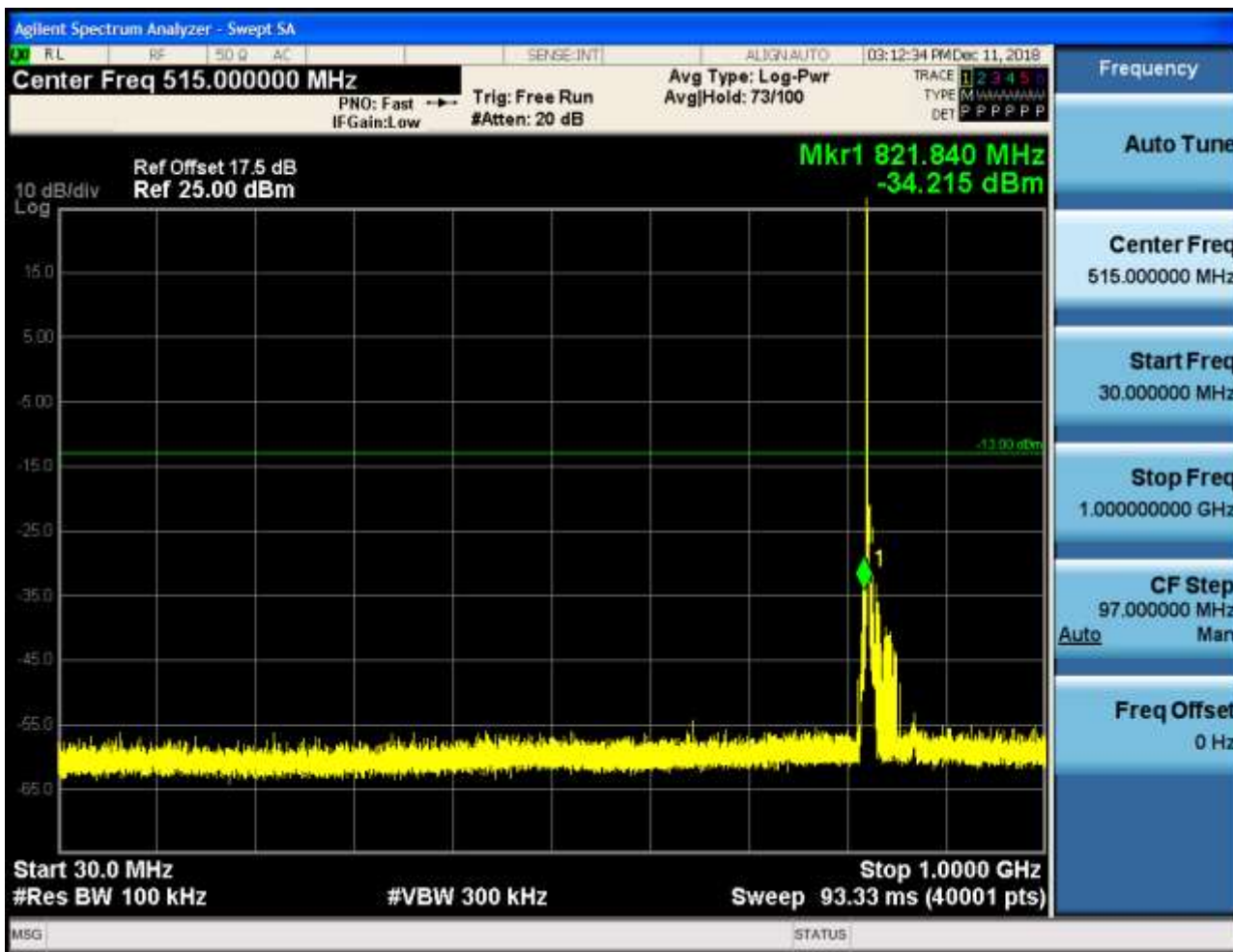
6.2.1.1.2 Test Bandwidth = 3

6.2.1.1.2.1 Test Channel = LCH

6.2.1.1.2.1.1 Test RB = RB1#0





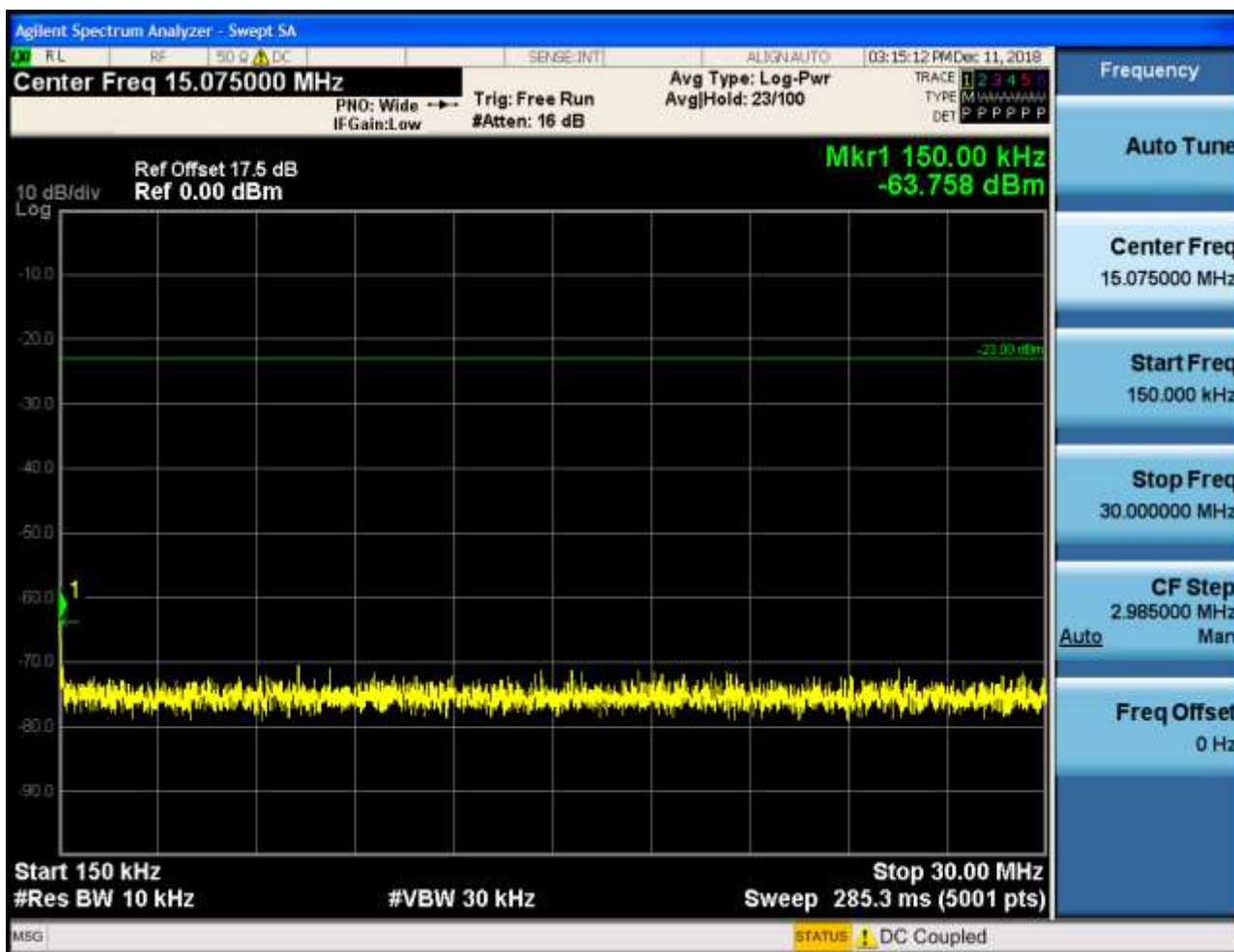


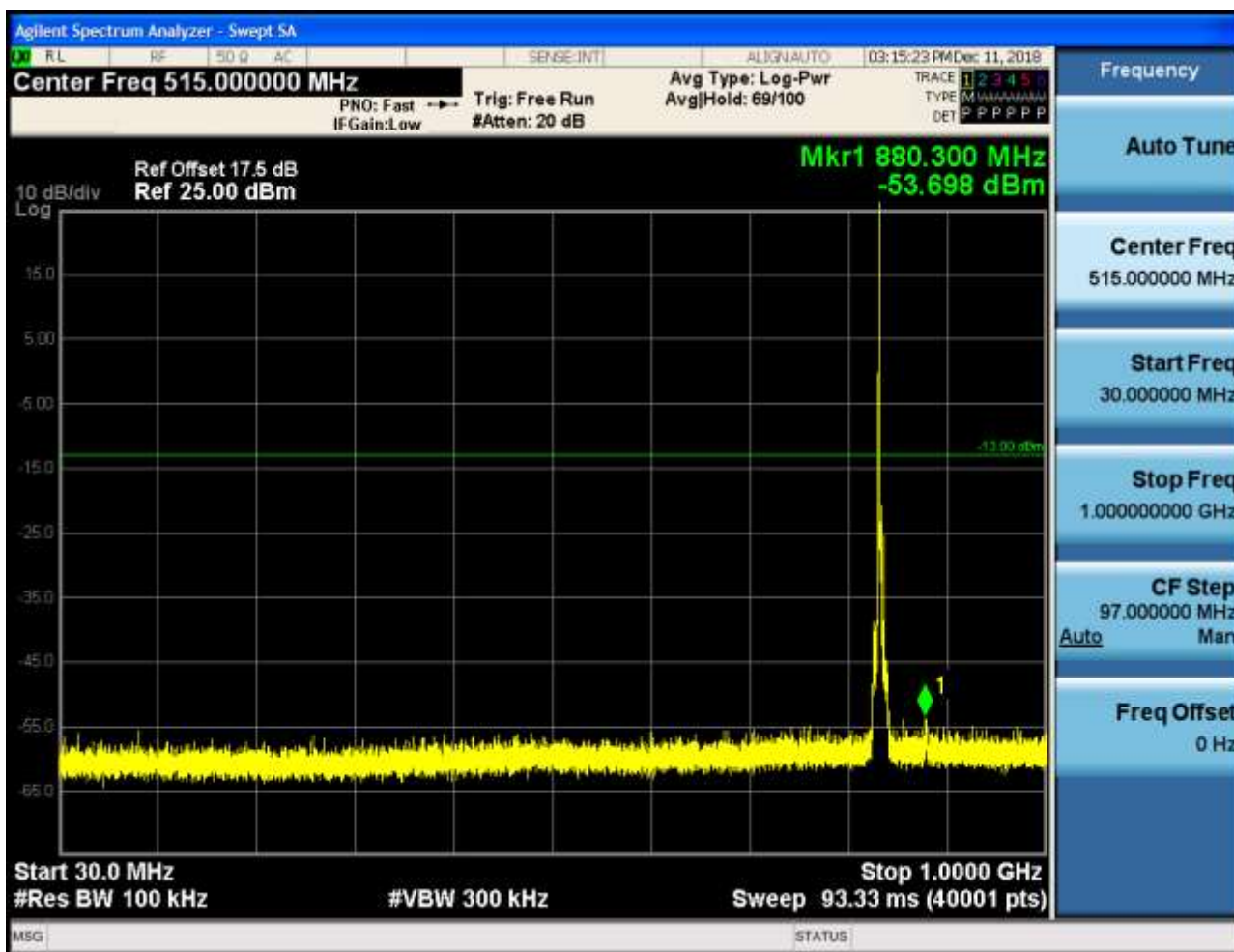


6.2.1.1.2.2 Test Channel = MCH

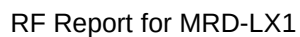
6.2.1.1.2.2.1 Test RB = RB1#0



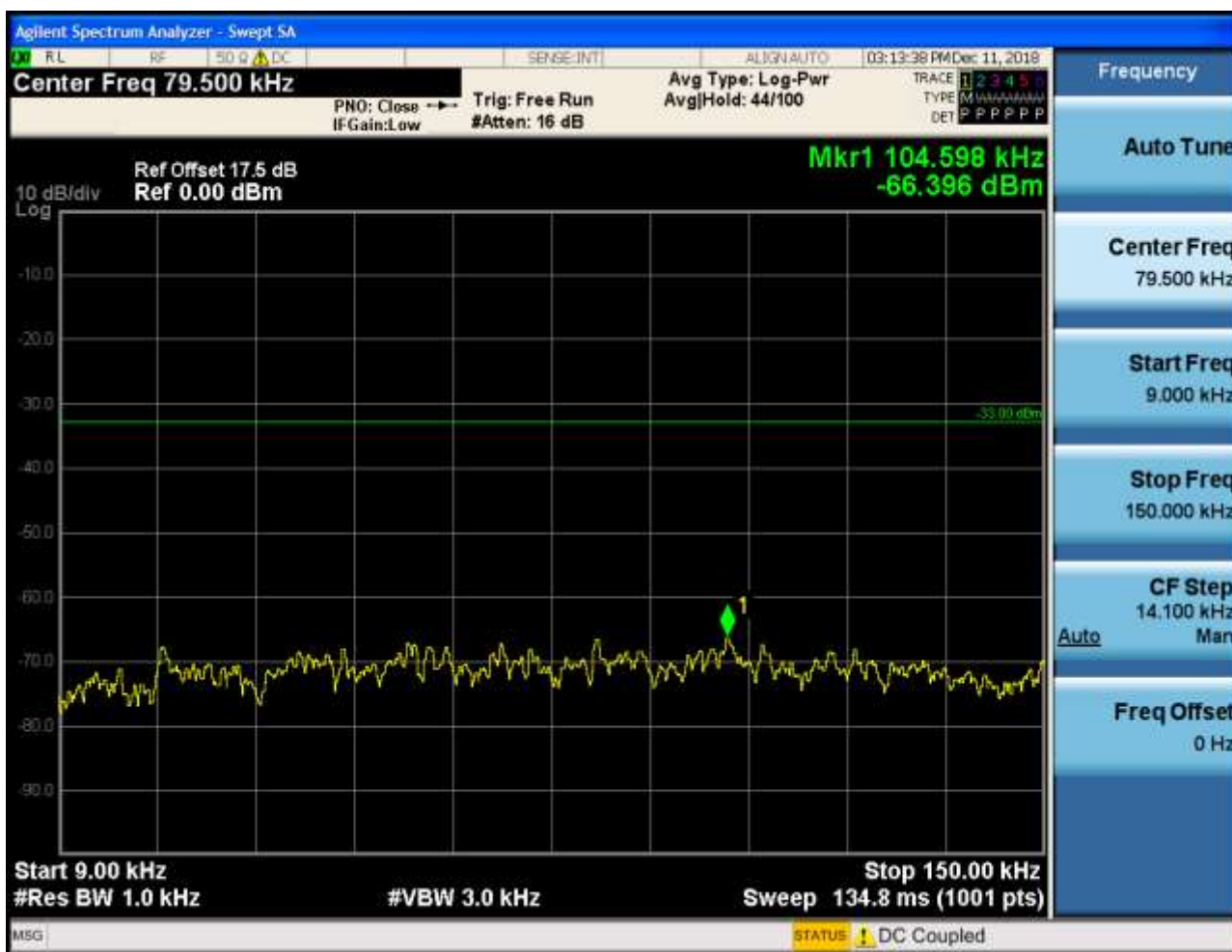




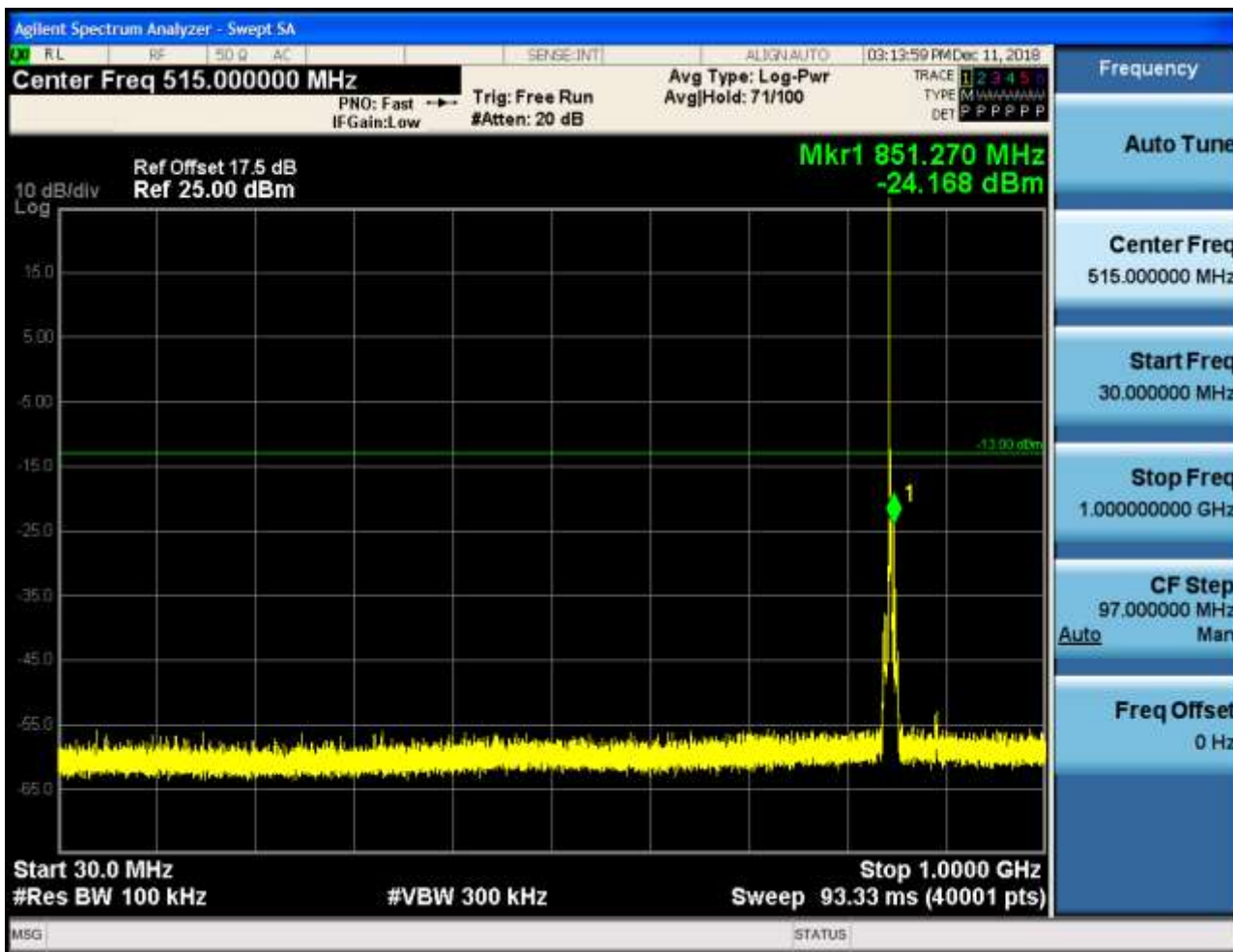




6.2.1.1.2.3.1 Test RB = RB1#0







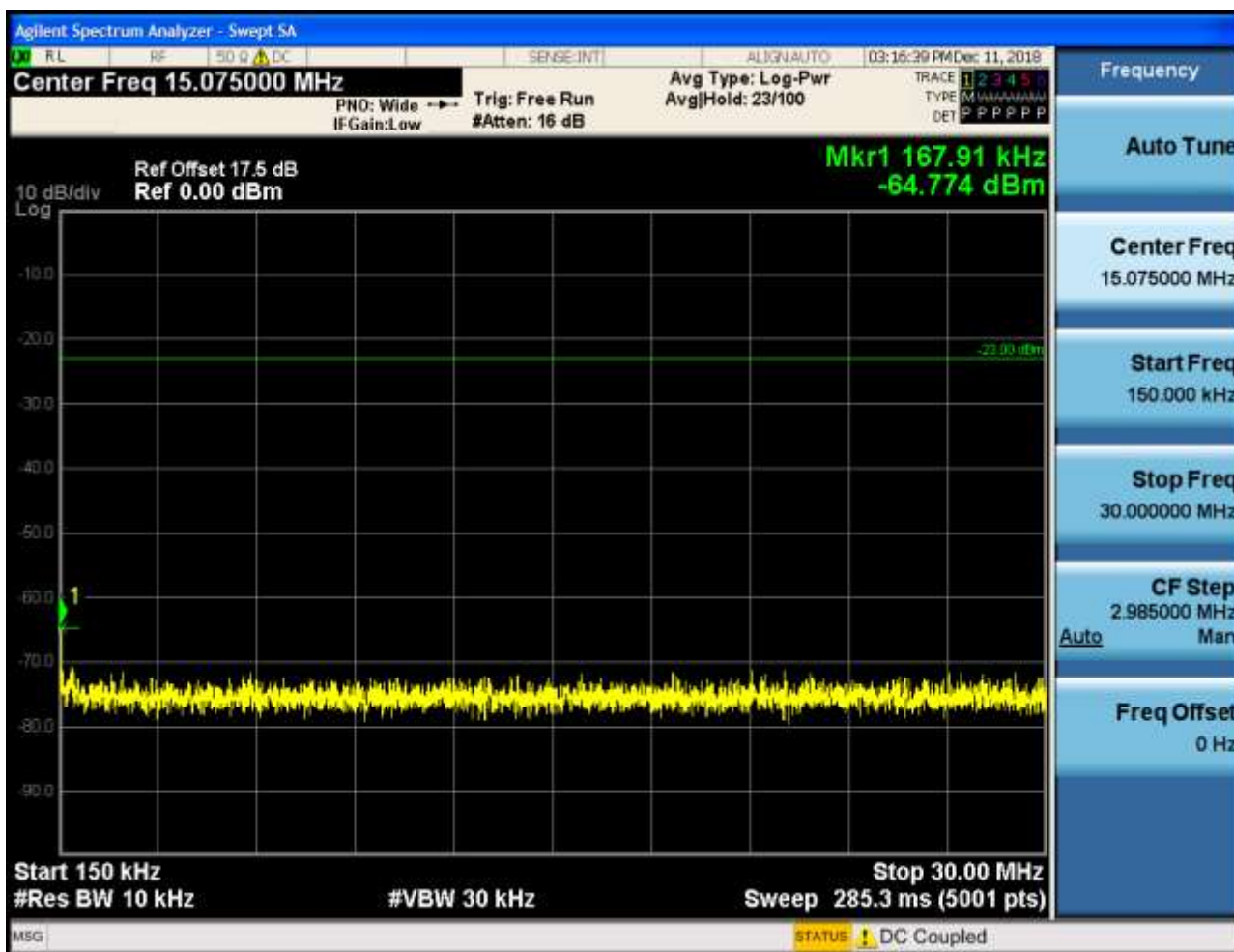


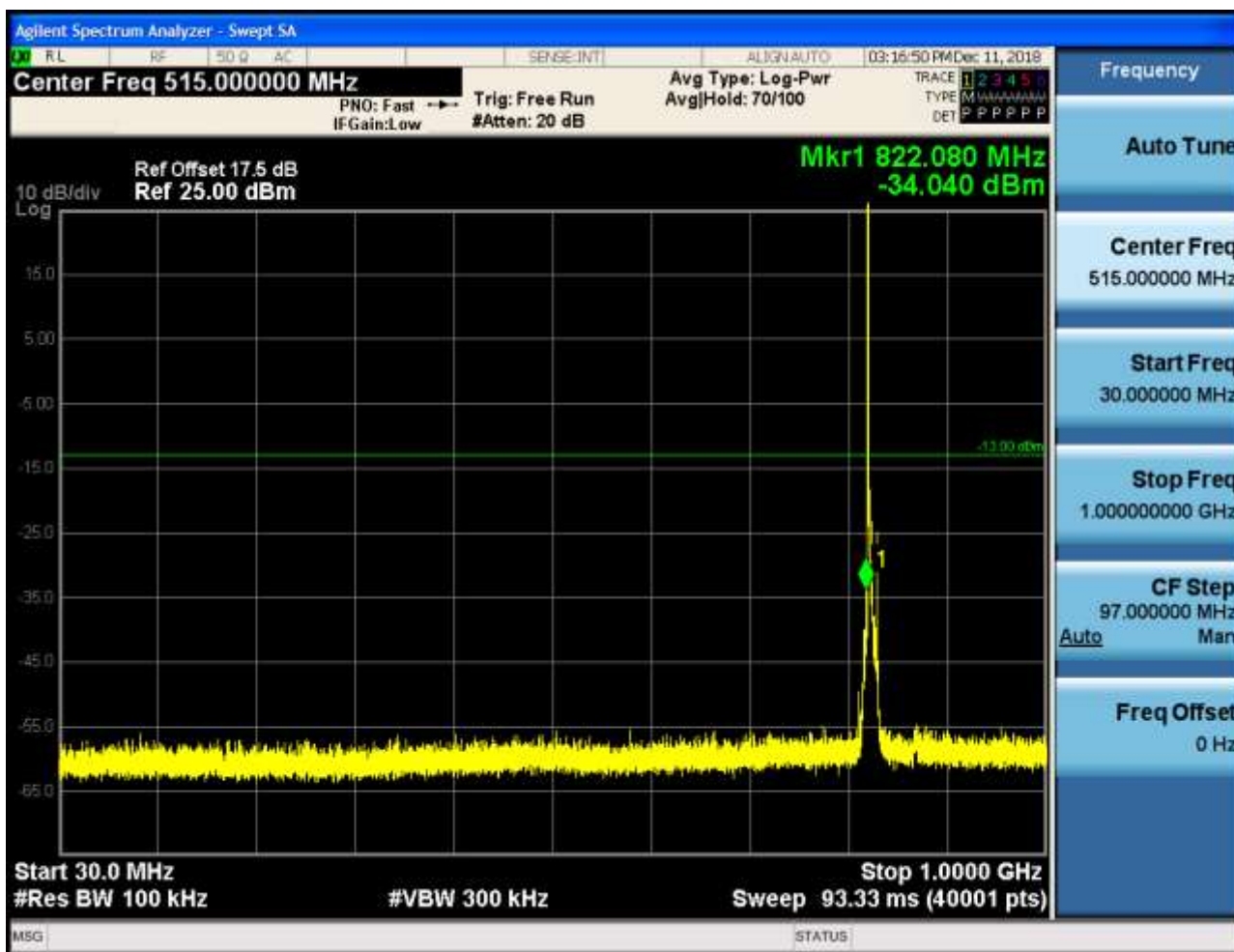
6.2.1.1.3 Test Bandwidth = 5

6.2.1.1.3.1 Test Channel = LCH

6.2.1.1.3.1.1 Test RB = RB1#0





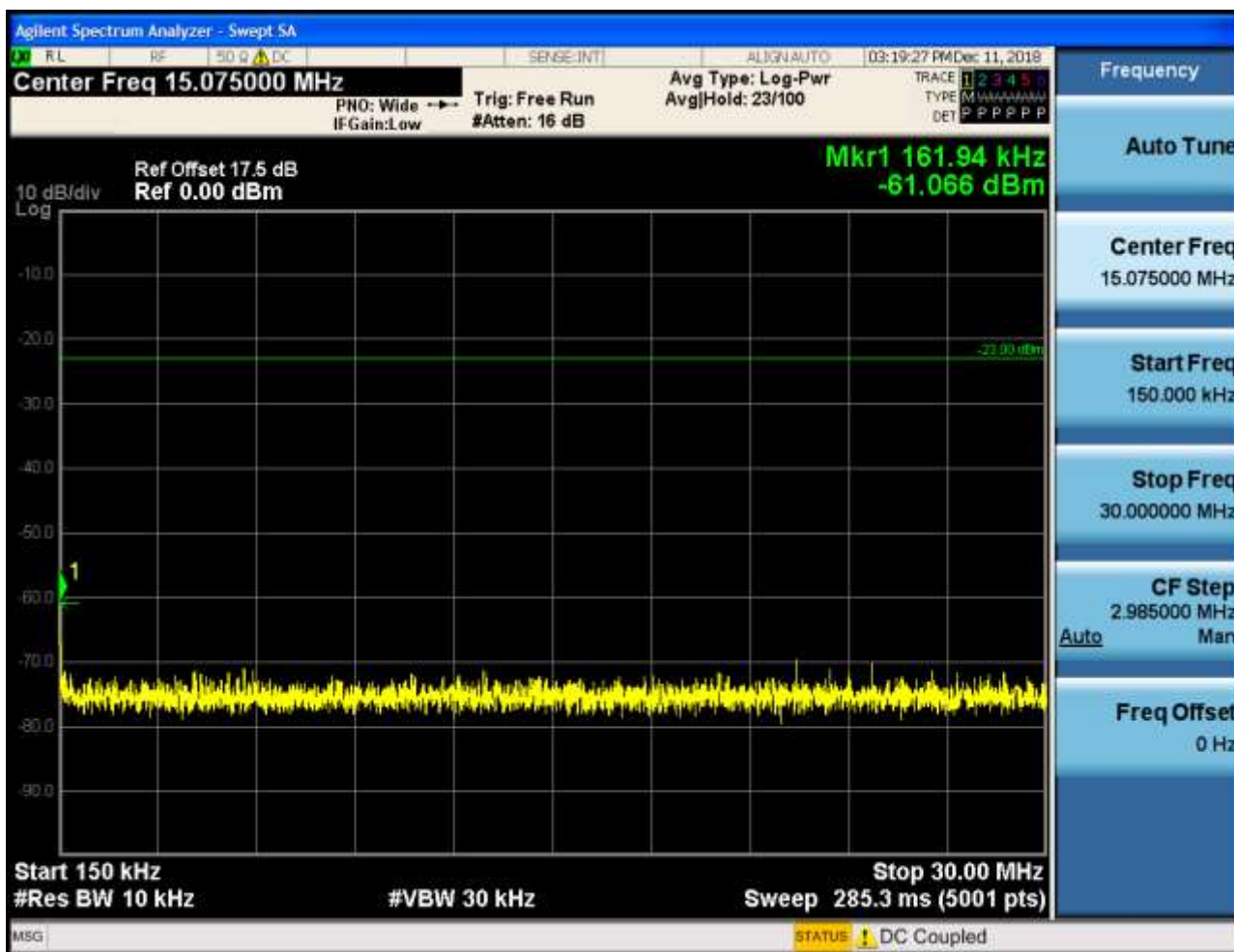


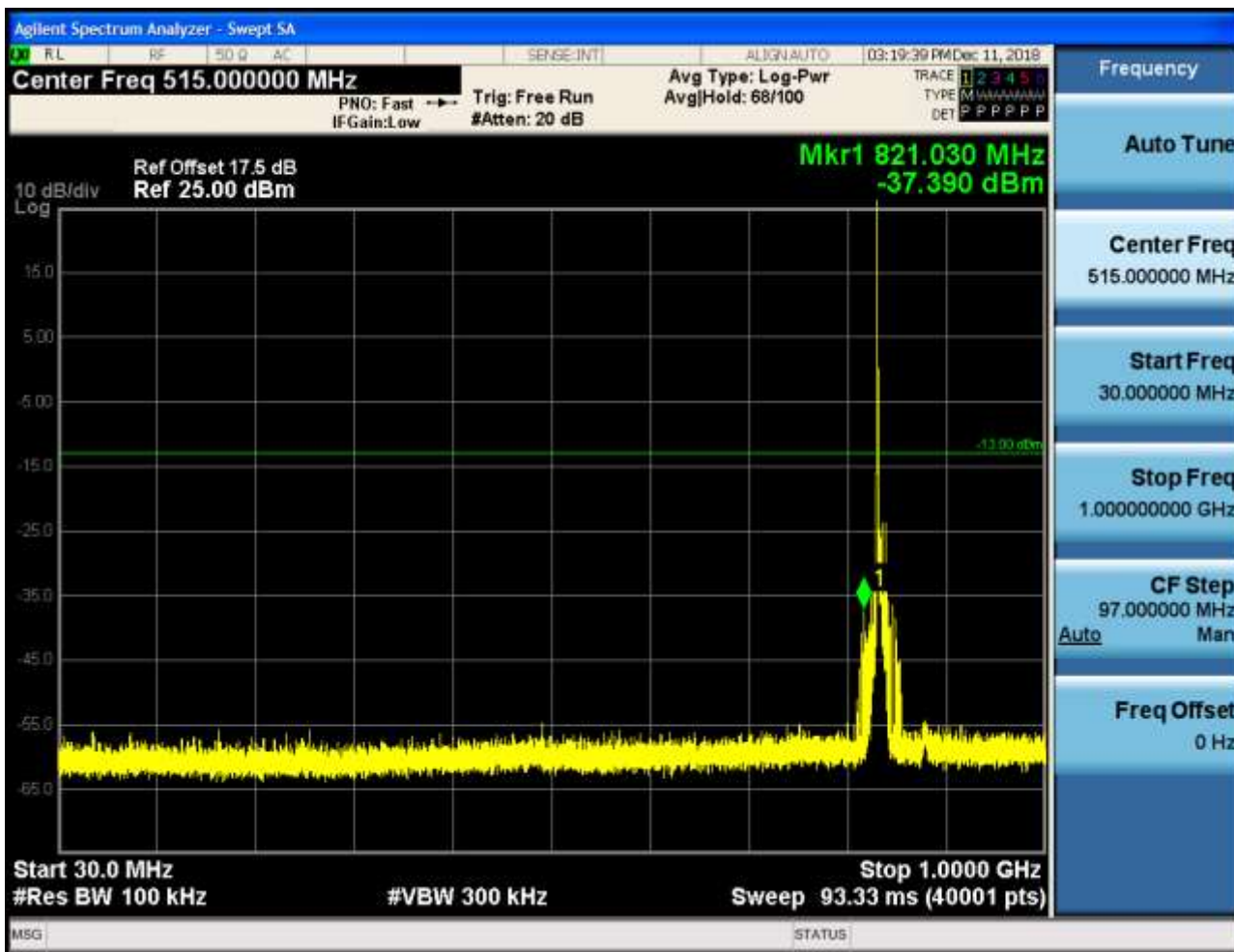


6.2.1.1.3.2 Test Channel = MCH

6.2.1.1.3.2.1 Test RB = RB1#0







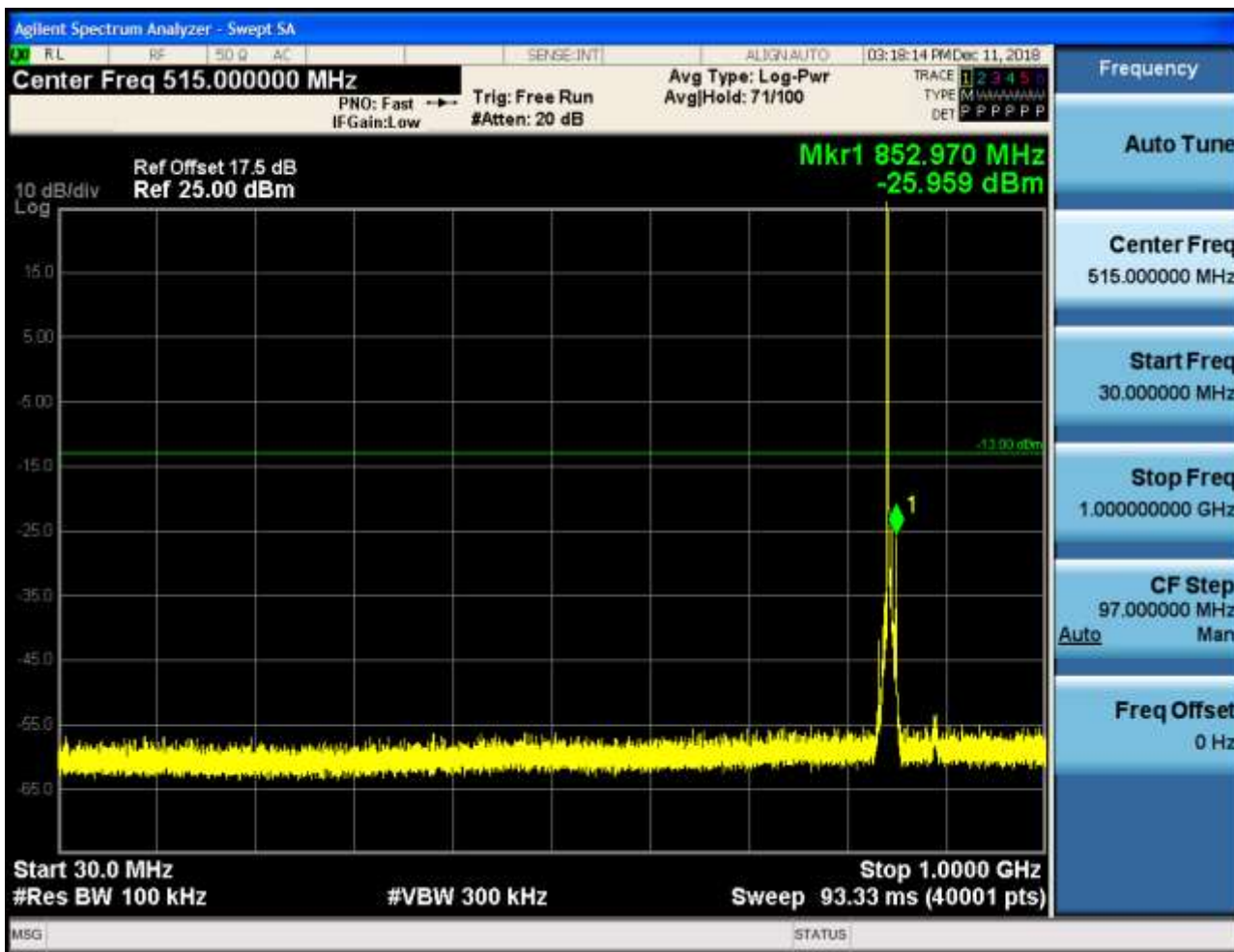


6.2.1.1.3.3 Test Channel = HCH

6.2.1.1.3.3.1 Test RB = RB1#0







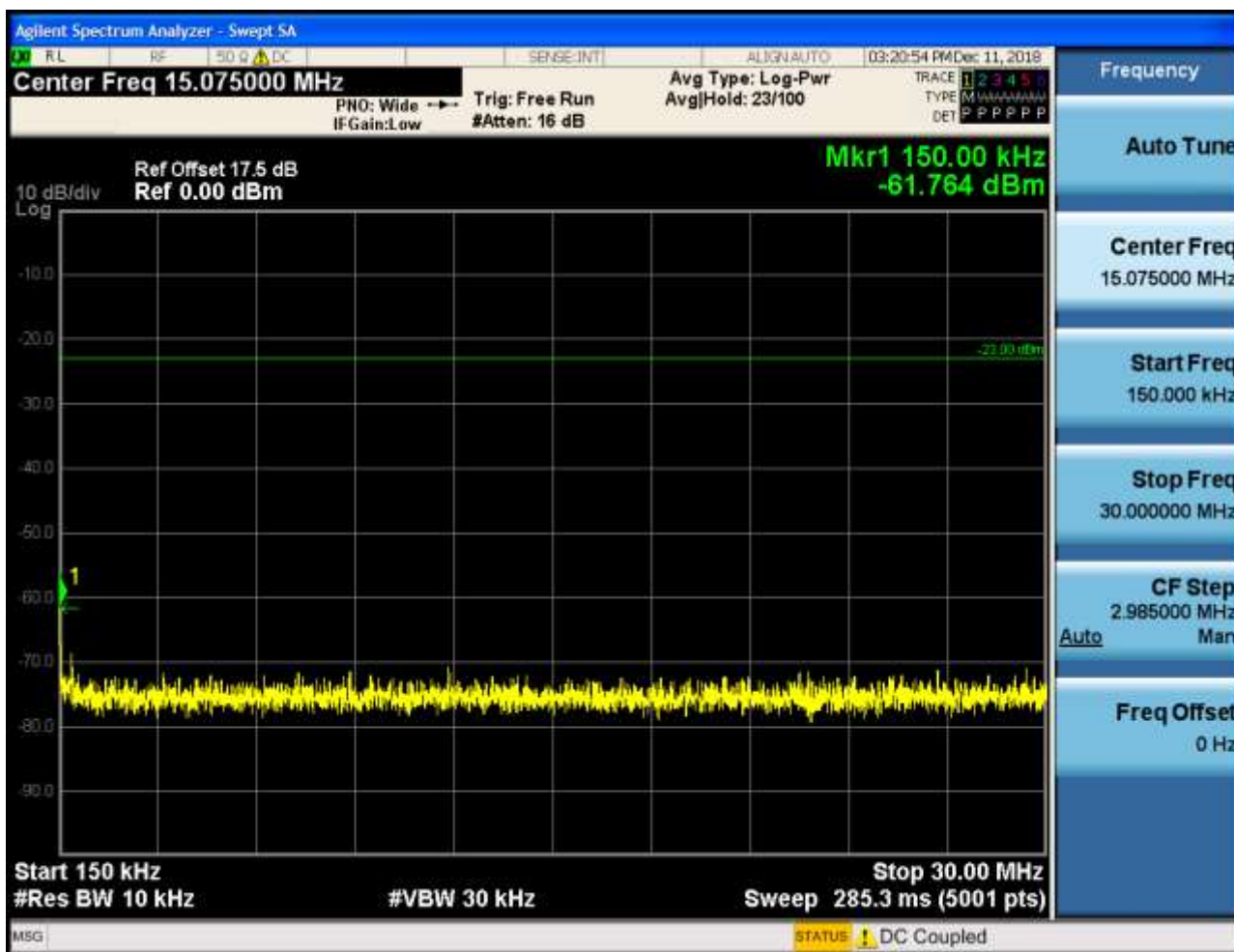


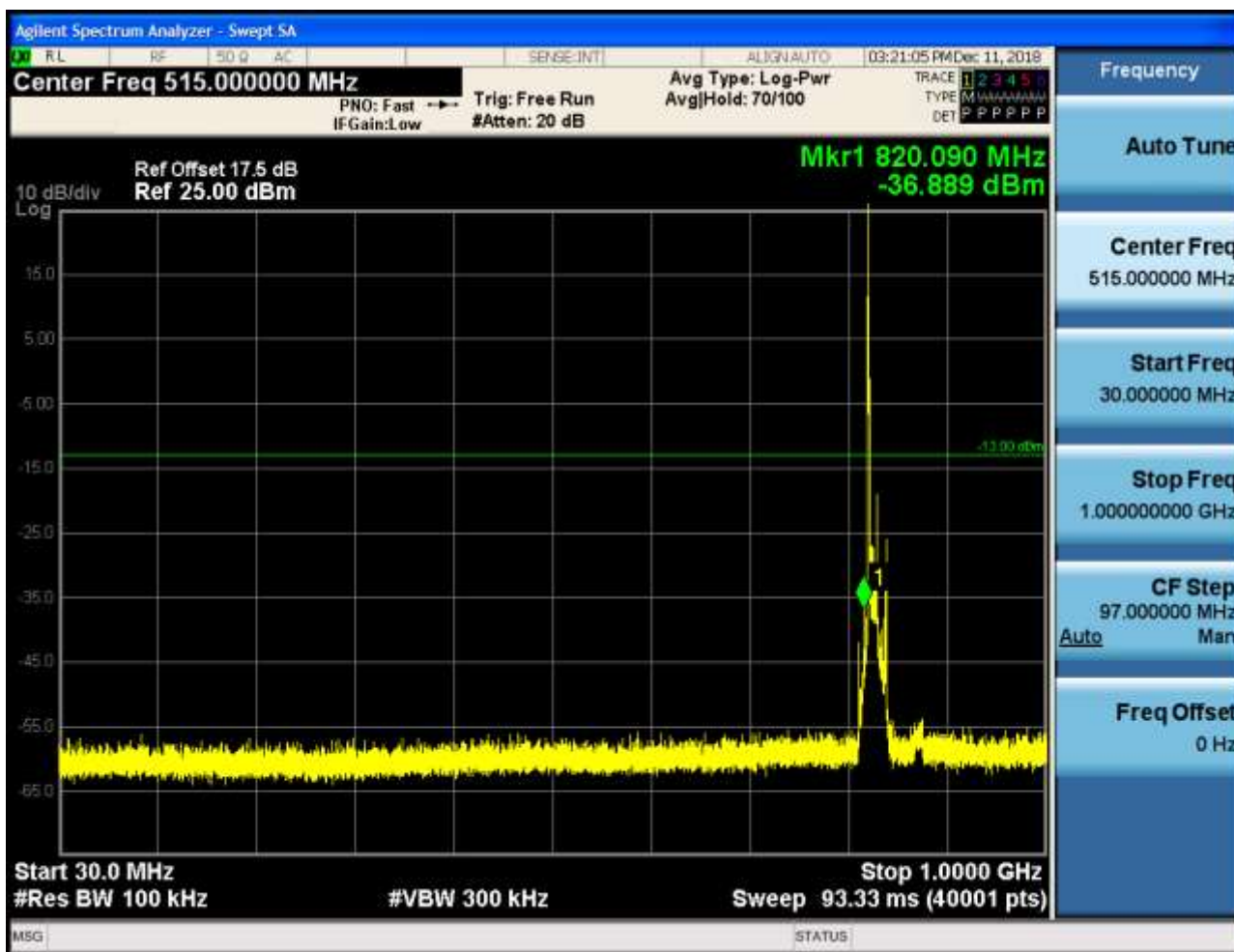
6.2.1.1.4 Test Bandwidth = 10

6.2.1.1.4.1 Test Channel = LCH

6.2.1.1.4.1.1 Test RB = RB1#0





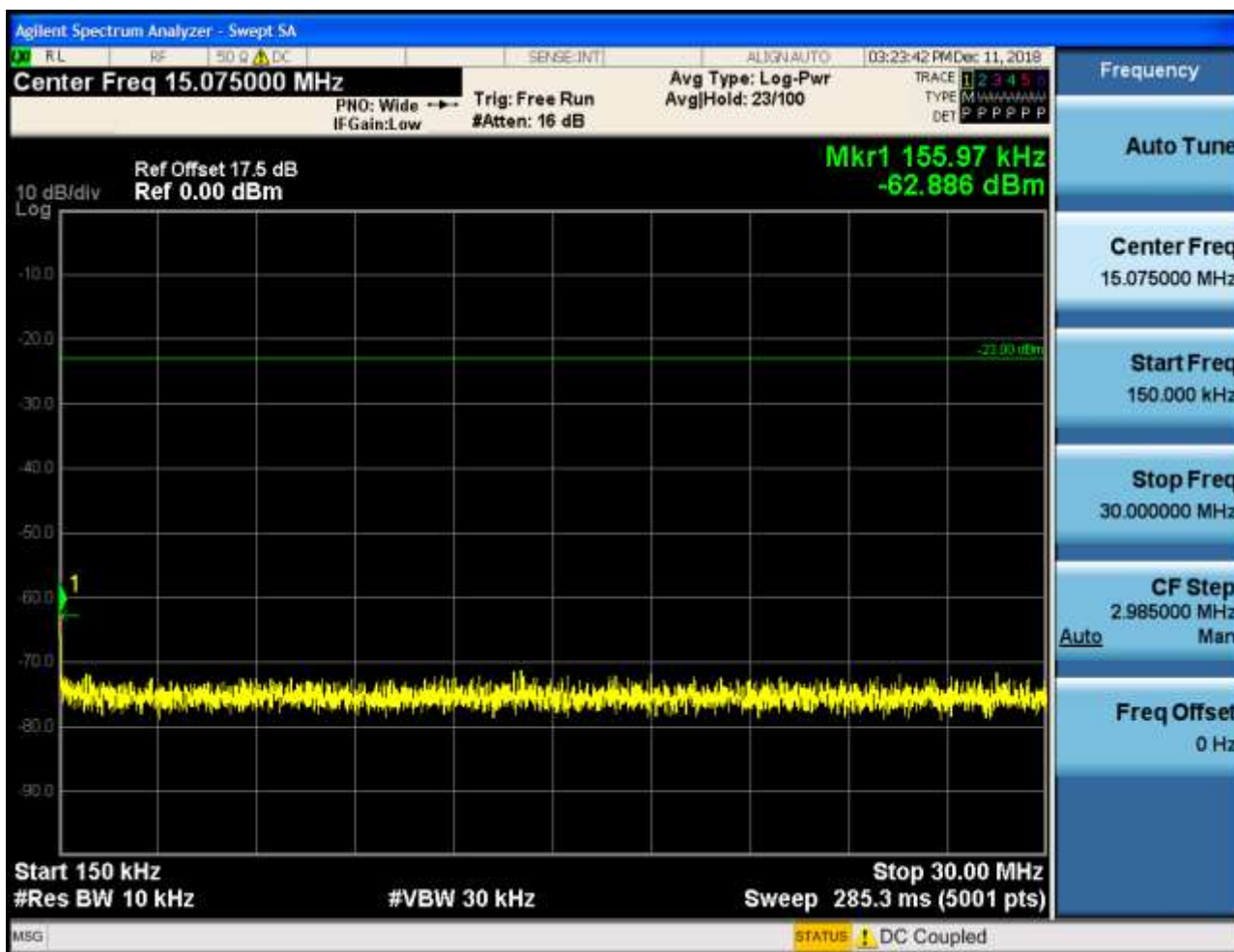


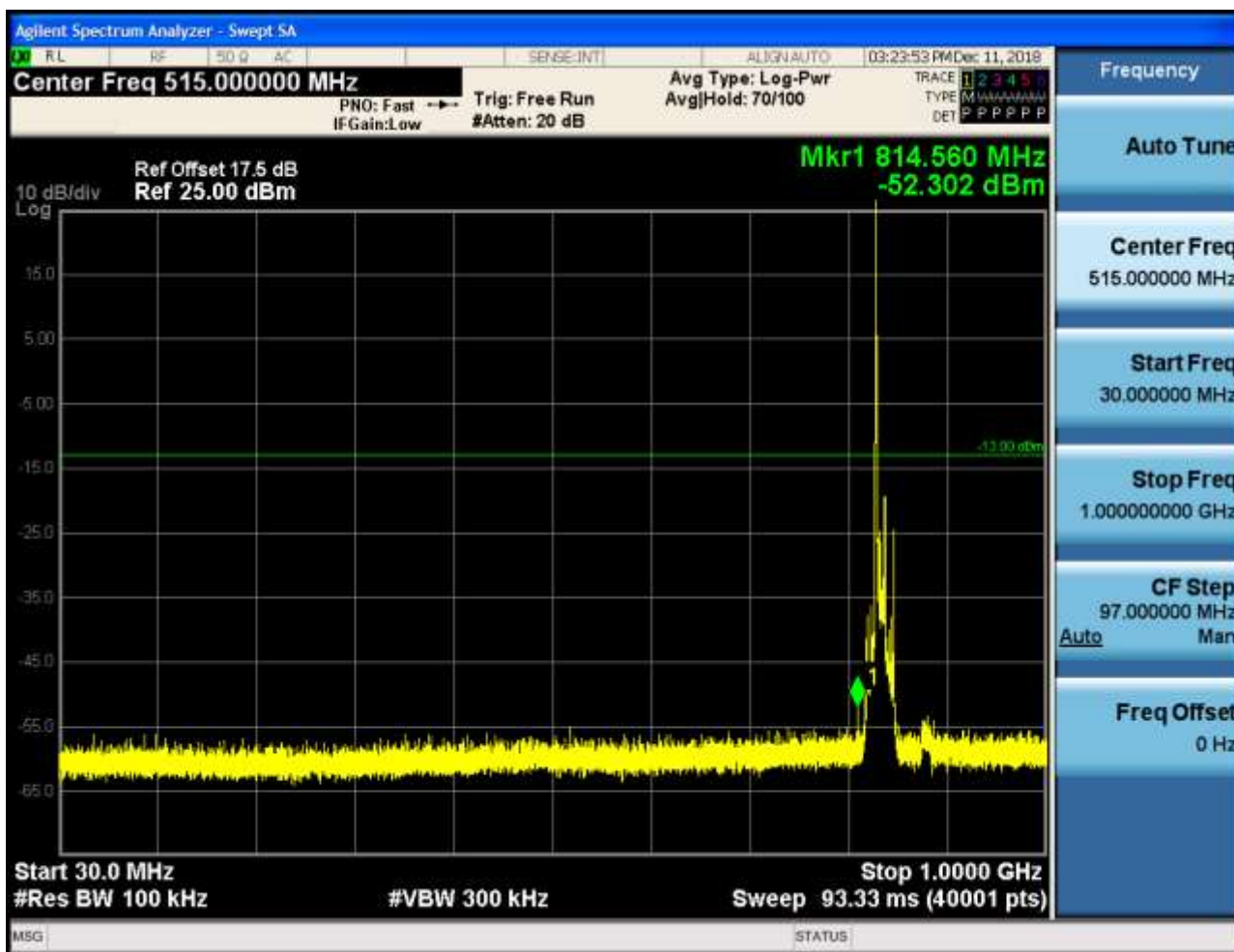


6.2.1.1.4.2 Test Channel = MCH

6.2.1.1.4.2.1 Test RB = RB1#0





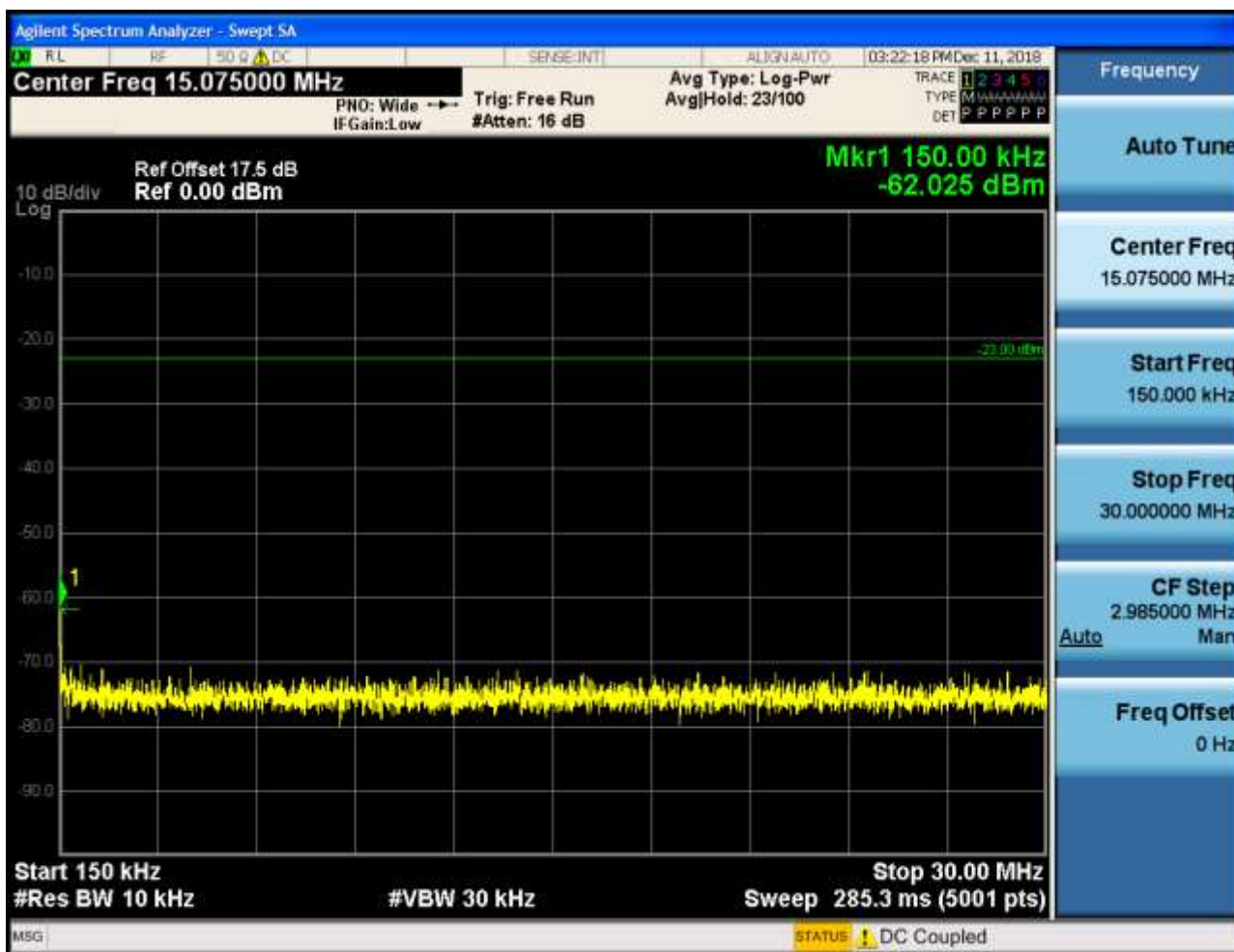


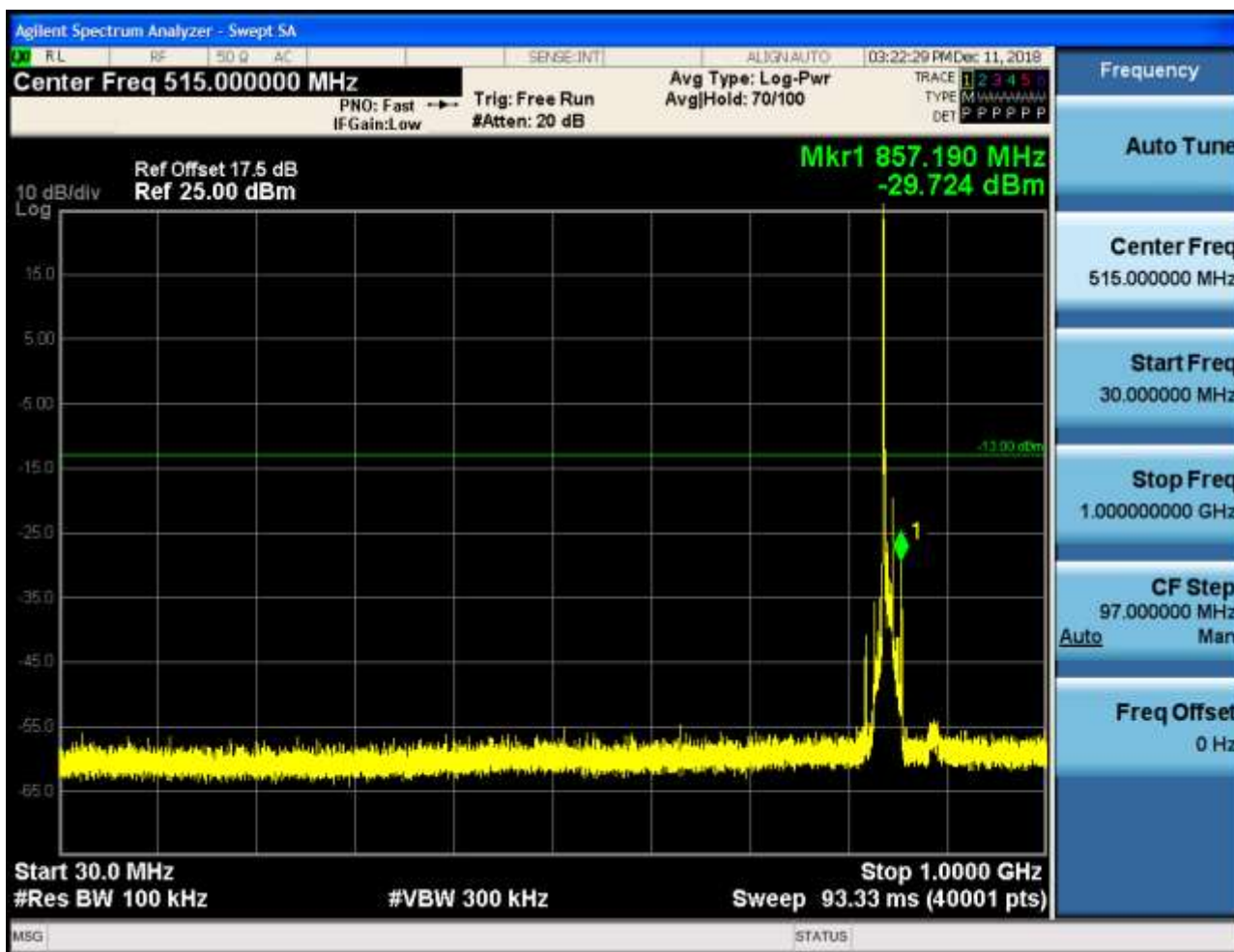


6.2.1.1.4.3 Test Channel = HCH

6.2.1.1.4.3.1 Test RB = RB1#0









6.2.1.2 Test Mode = LTE/TM2

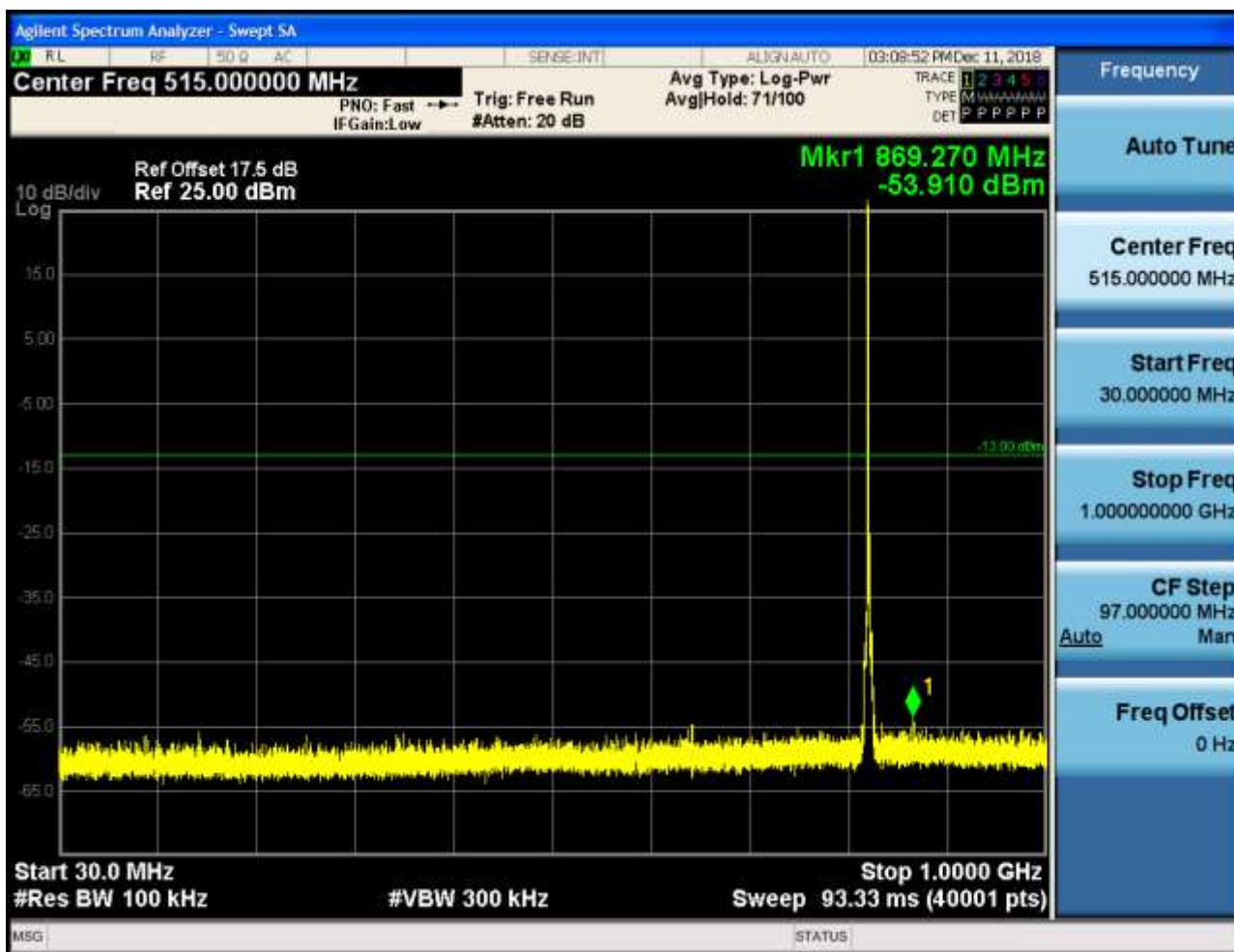
6.2.1.2.1 Test Bandwidth = 1.4

6.2.1.2.1.1 Test Channel = LCH

6.2.1.2.1.1.1 Test RB = RB1#0







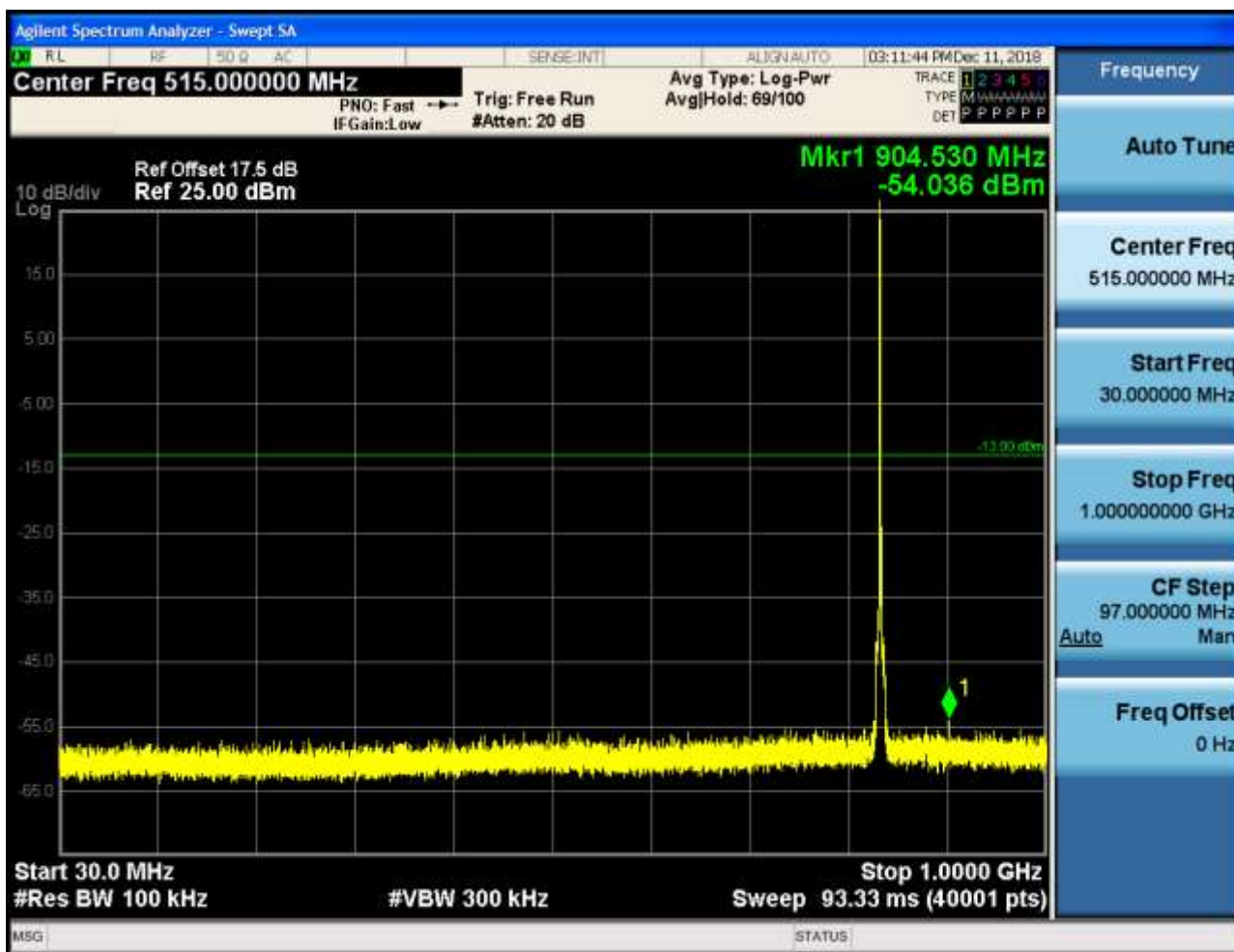


6.2.1.2.1.2 Test Channel = MCH

6.2.1.2.1.2.1 Test RB = RB1#0



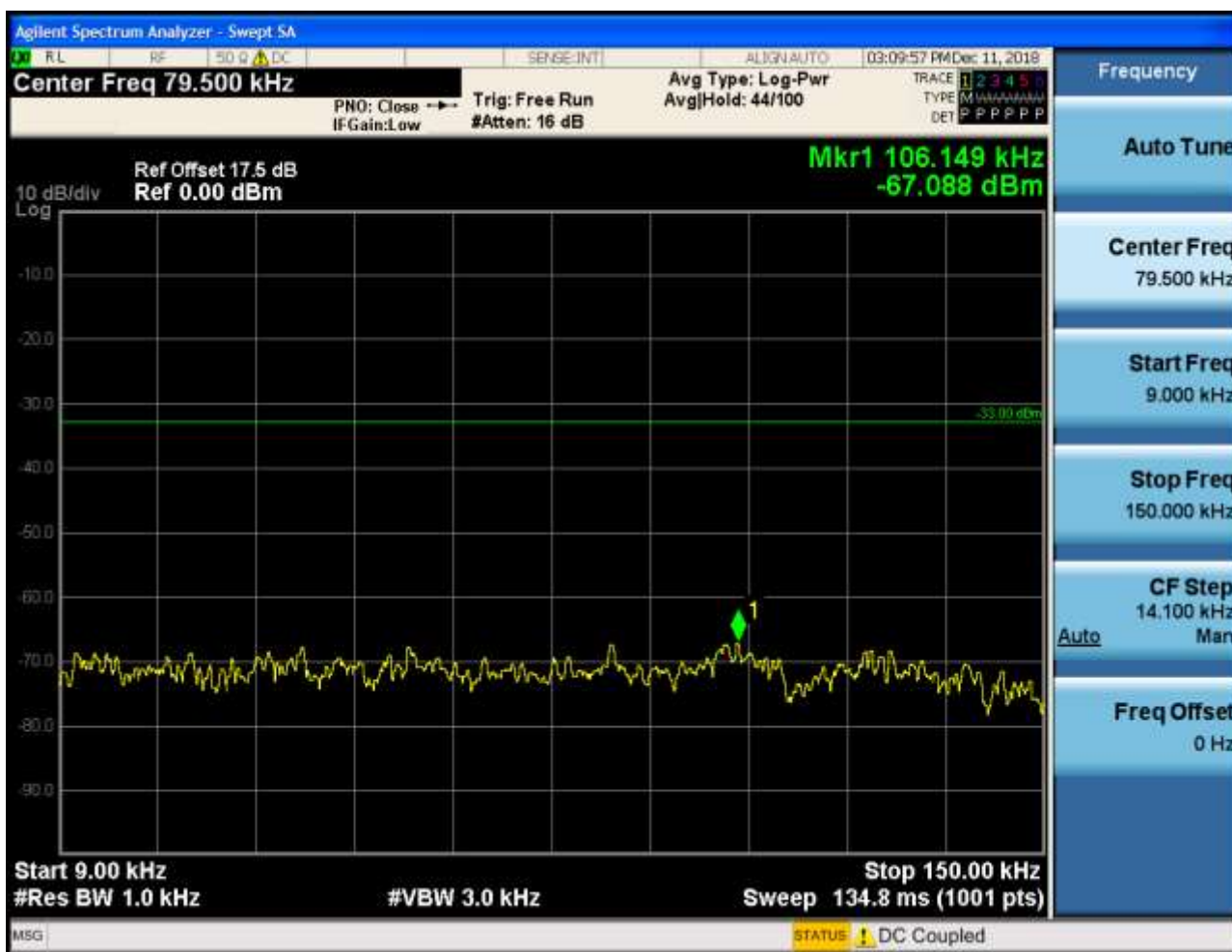


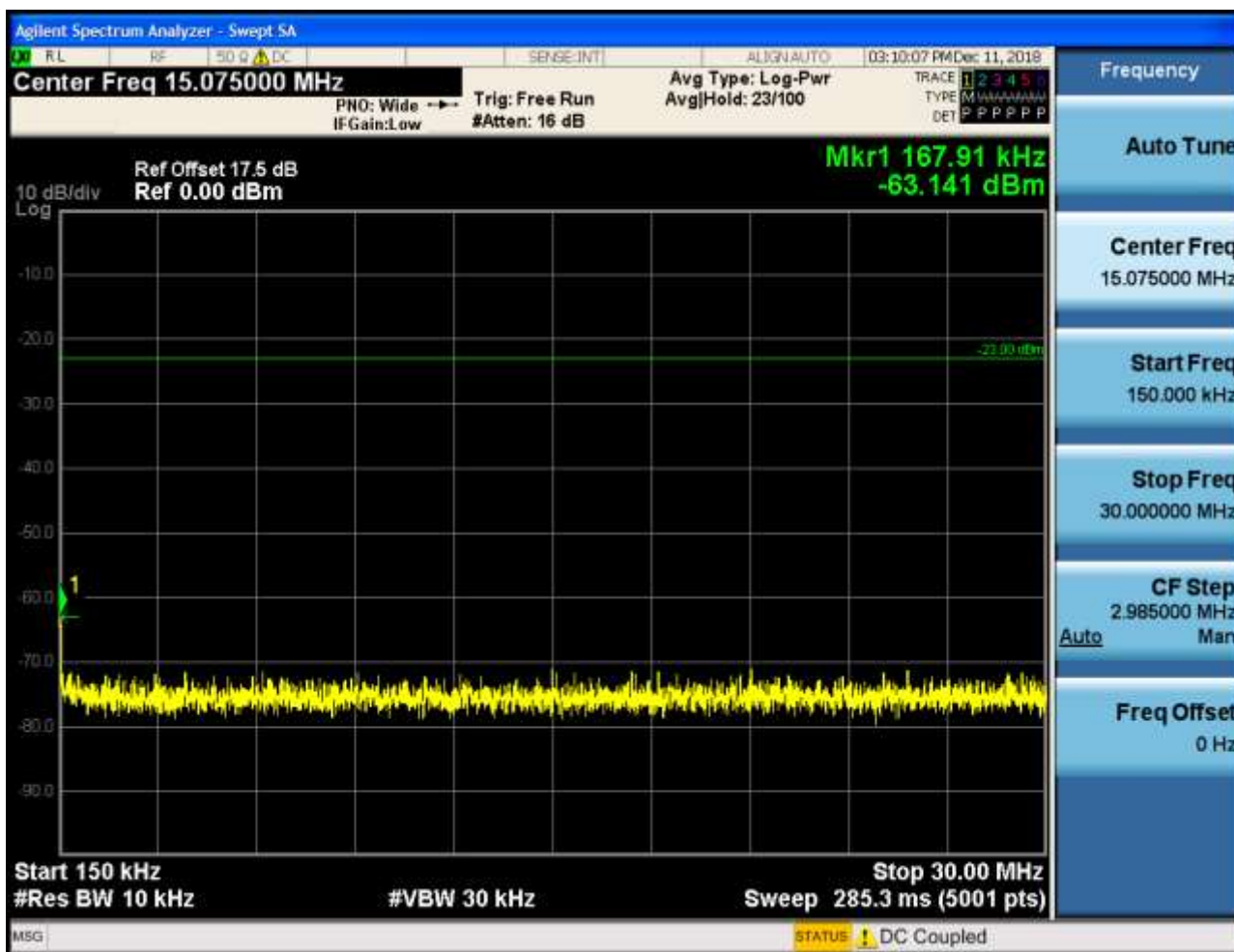


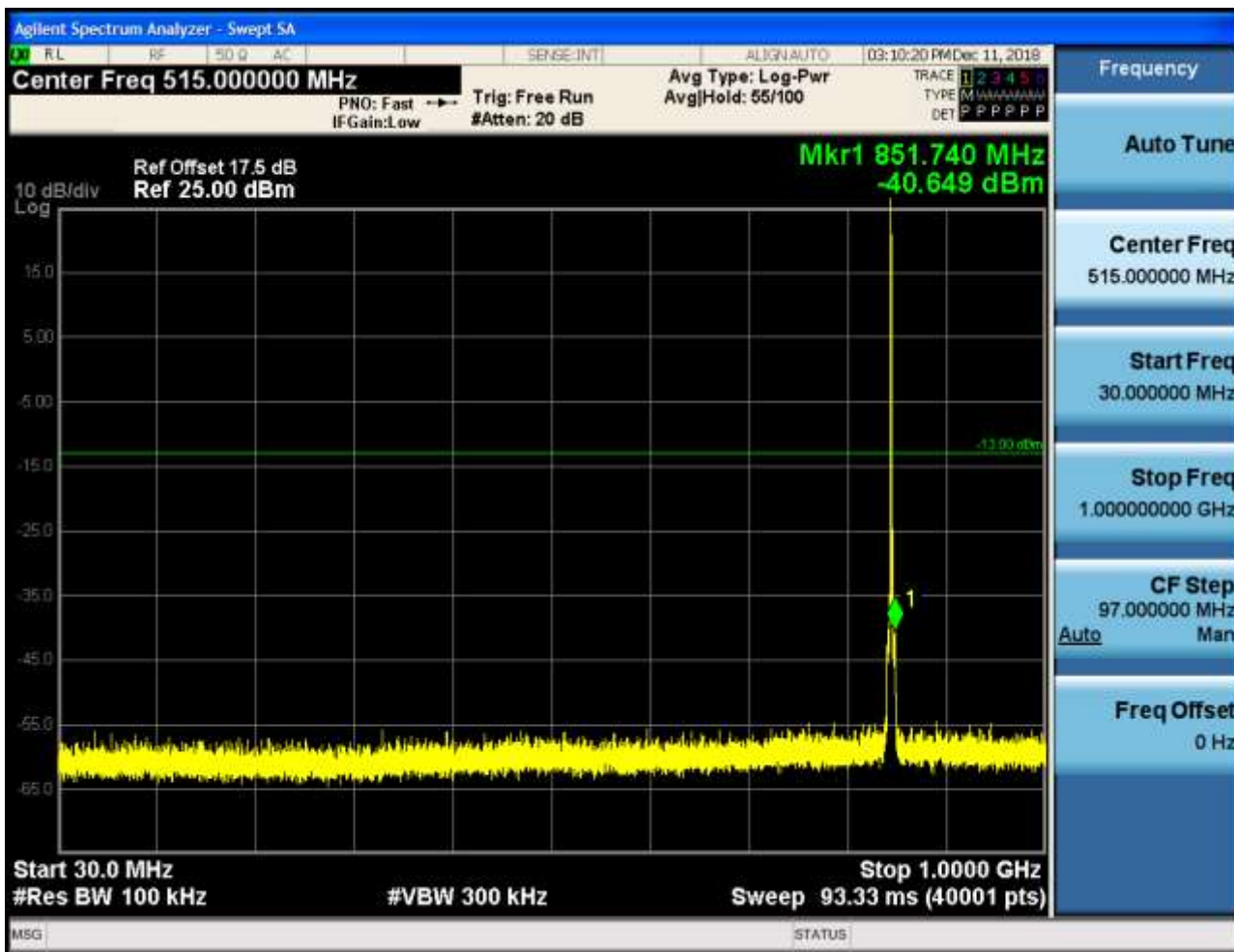


6.2.1.2.1.3 Test Channel = HCH

6.2.1.2.1.3.1 Test RB = RB1#0







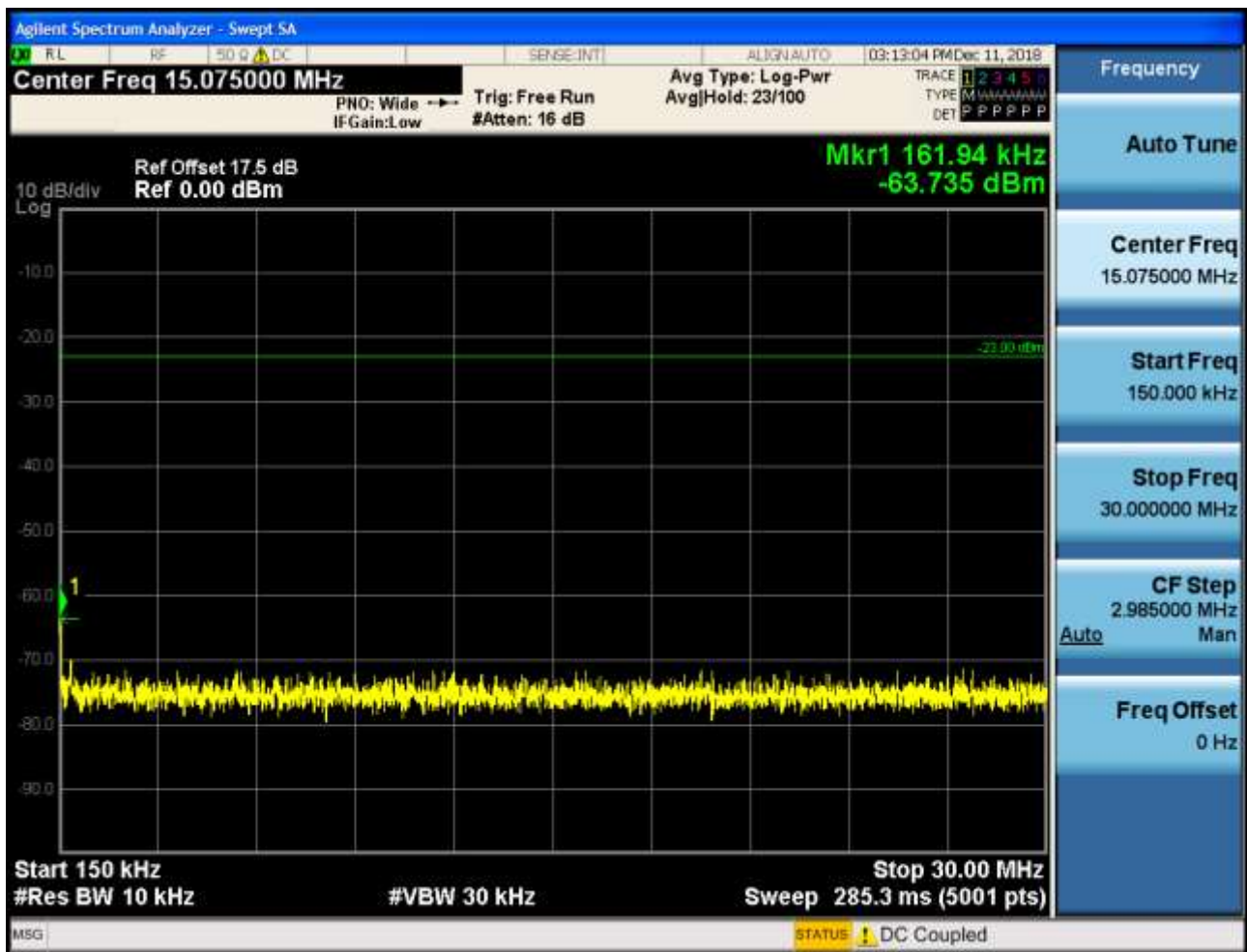


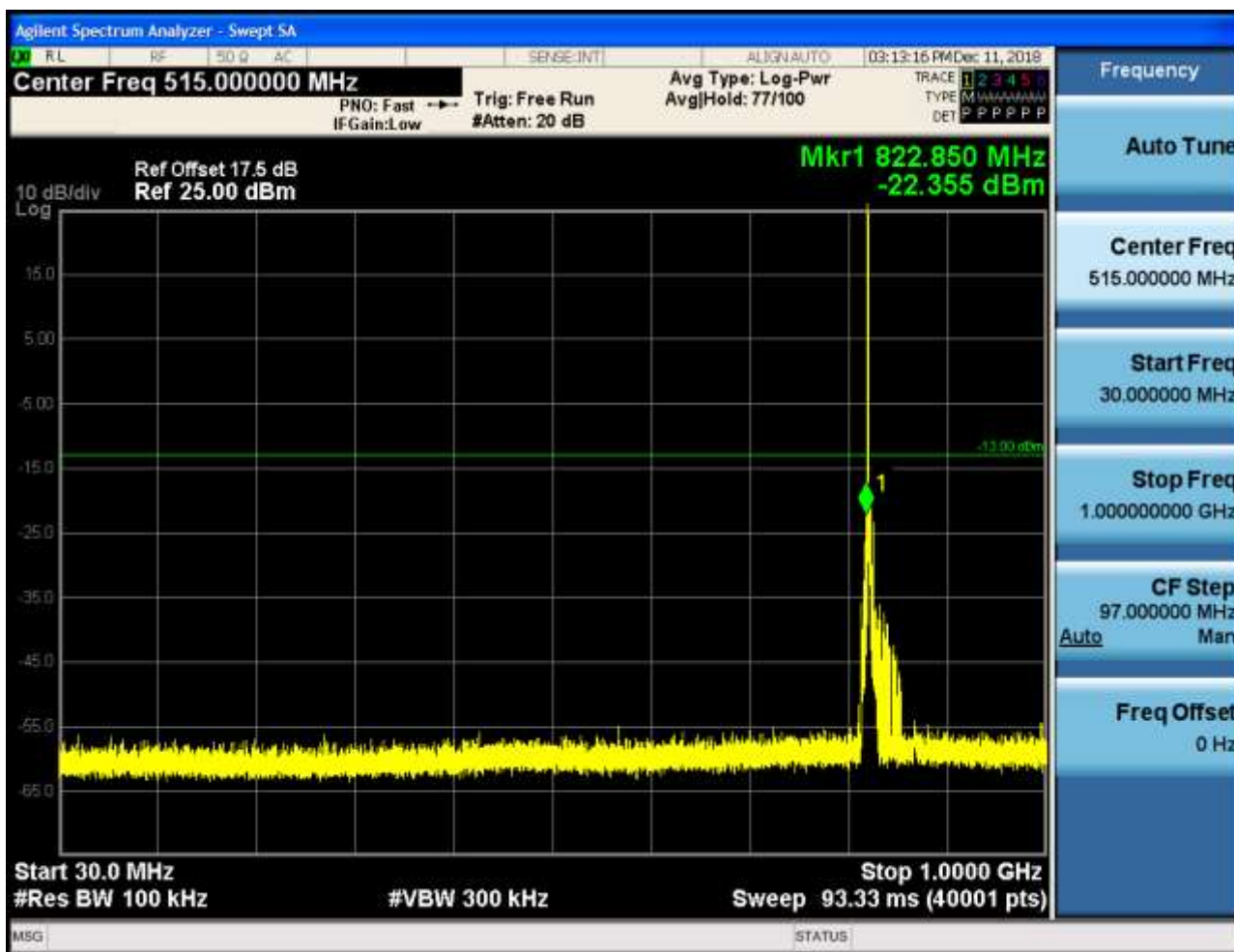
6.2.1.2.2 Test Bandwidth = 3

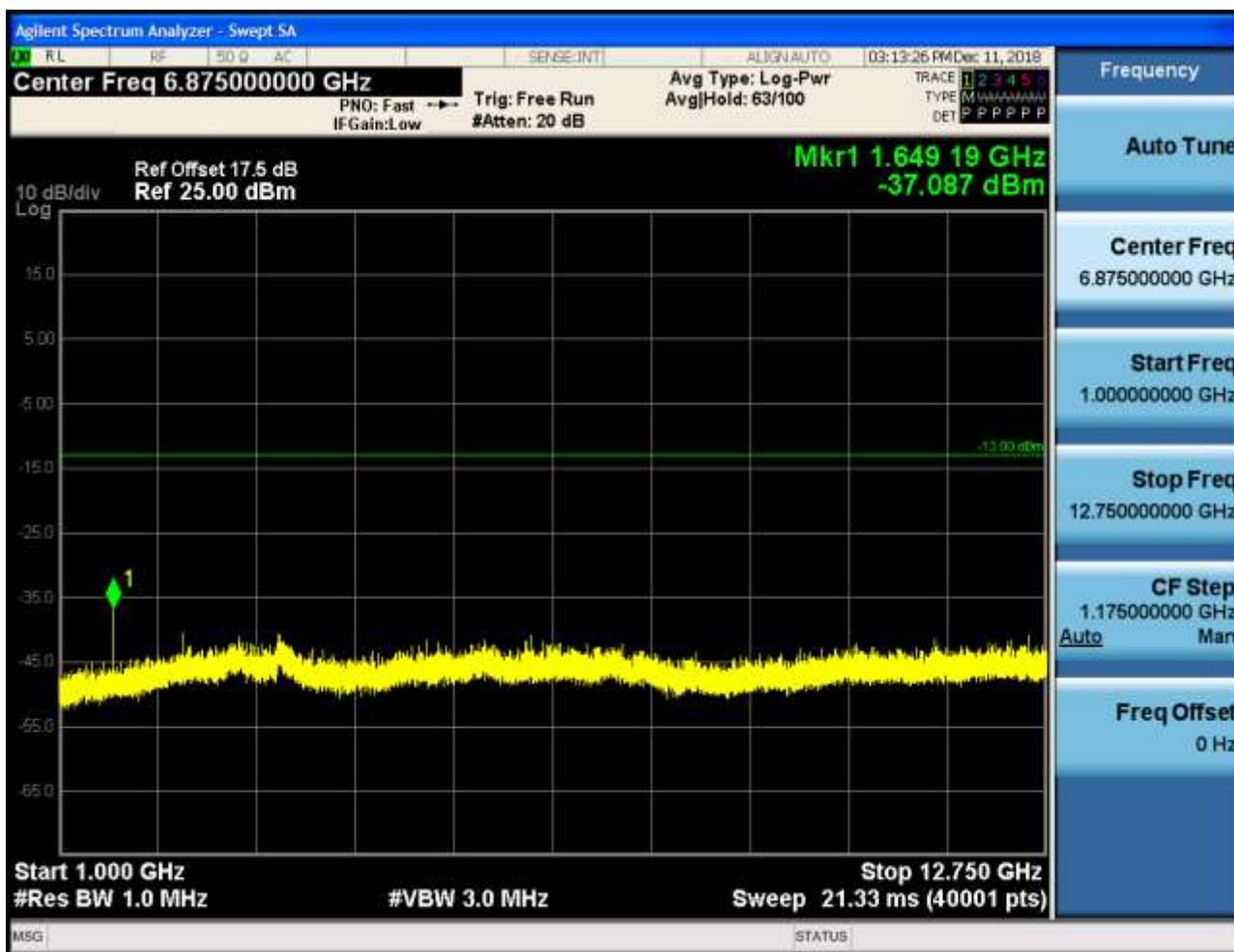
6.2.1.2.2.1 Test Channel = LCH

6.2.1.2.2.1.1 Test RB = RB1#0







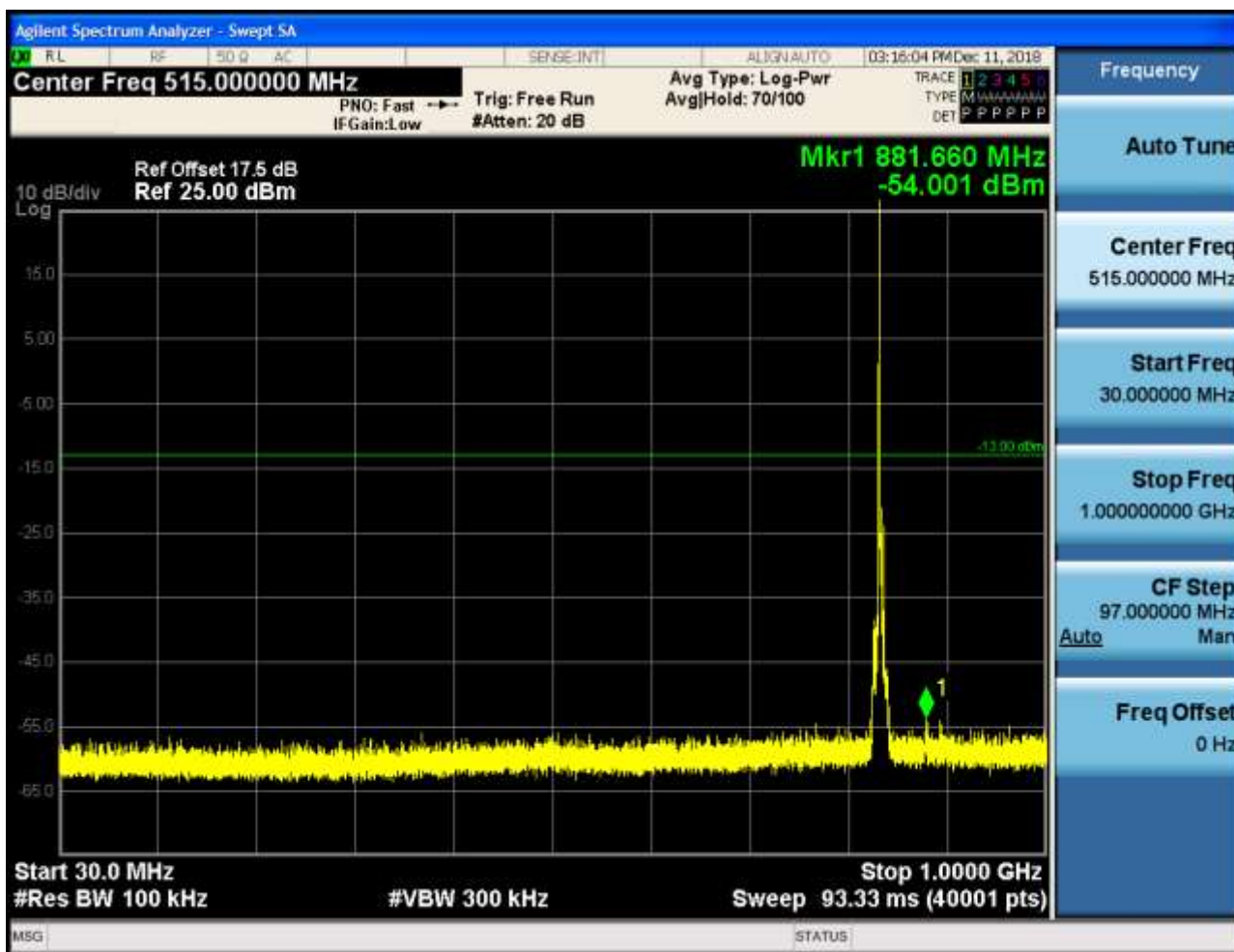


6.2.1.2.2.2 Test Channel = MCH

6.2.1.2.2.2.1 Test RB = RB1#0





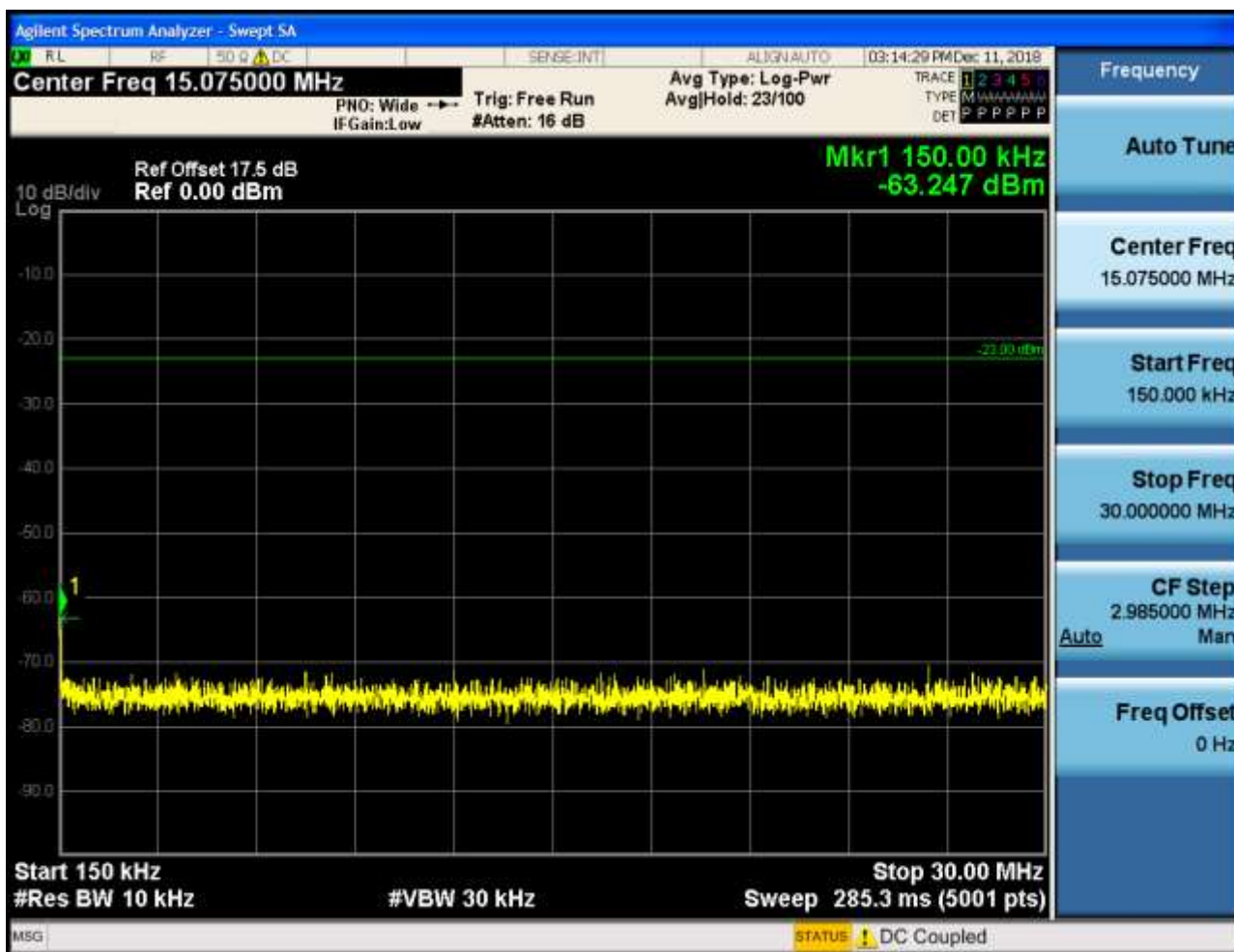


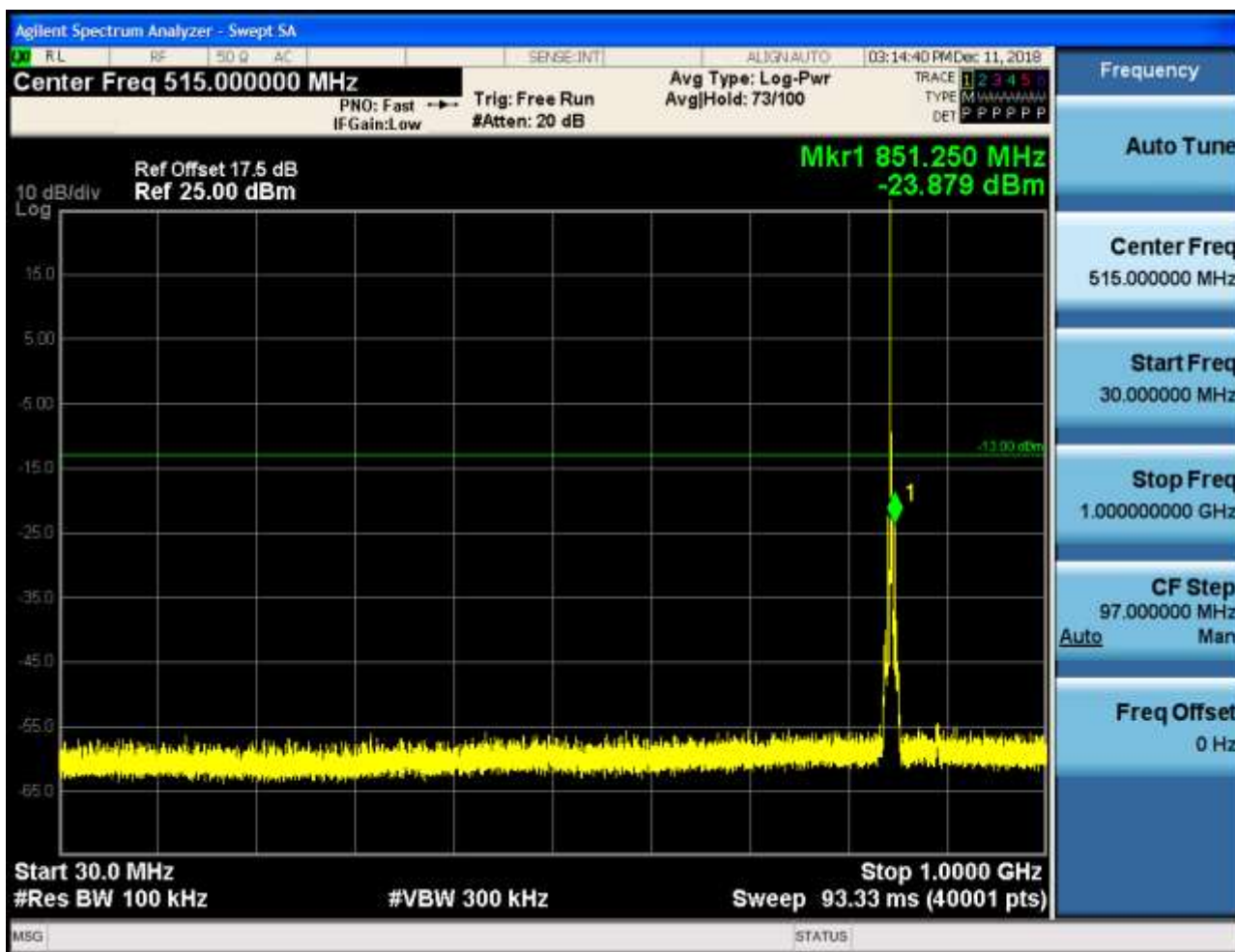


6.2.1.2.2.3 Test Channel = HCH

6.2.1.2.2.3.1 Test RB = RB1#0







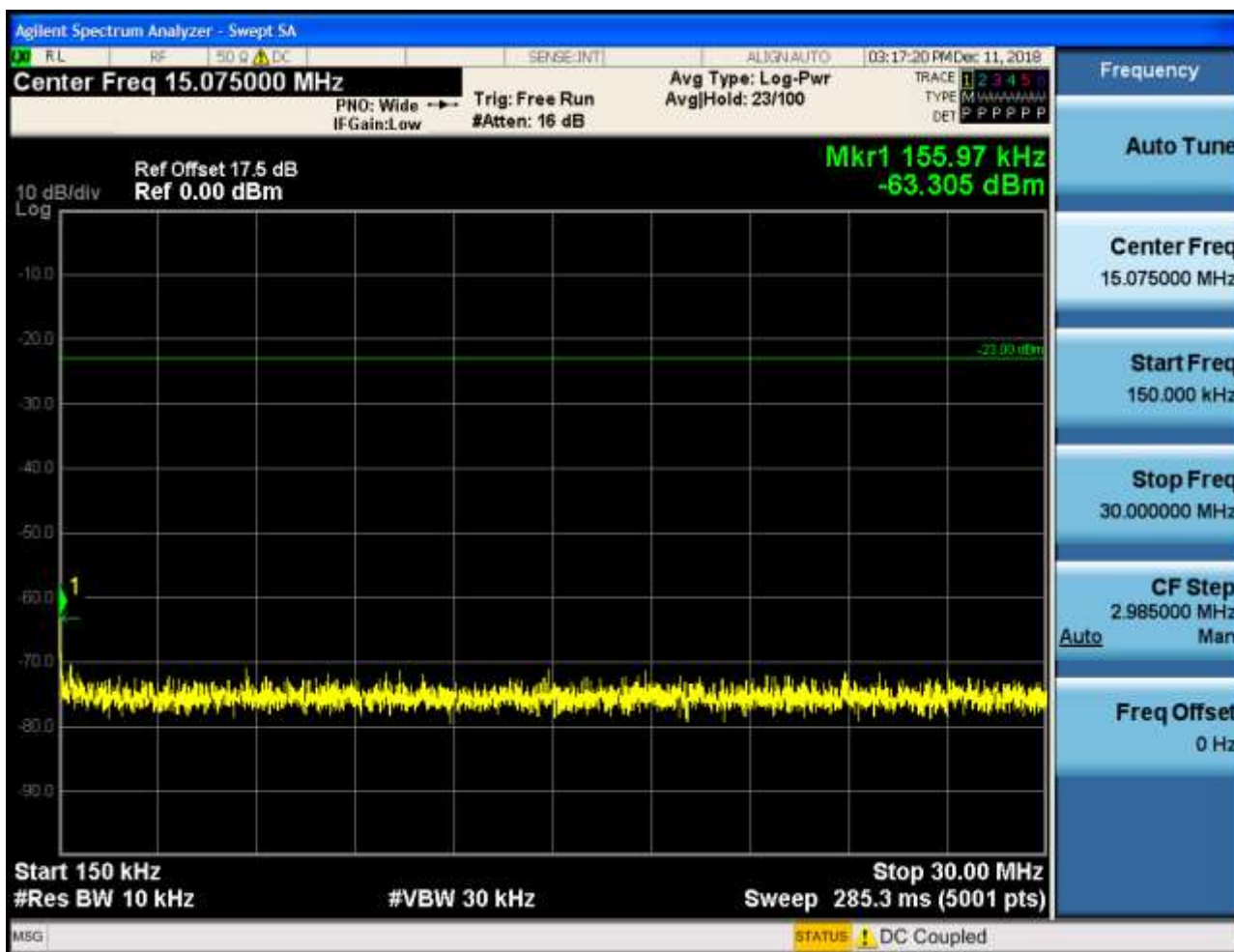


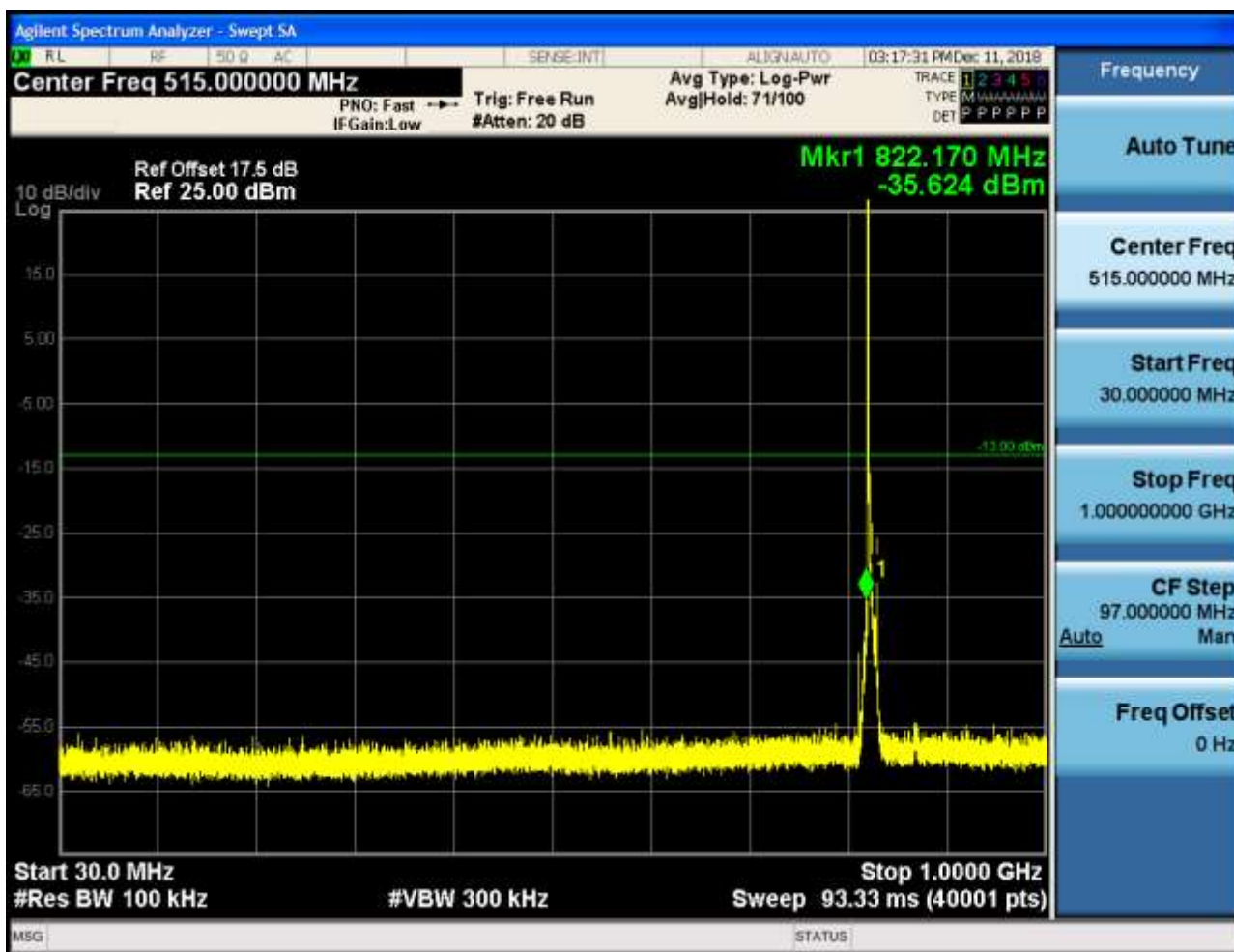
6.2.1.2.3 Test Bandwidth = 5

6.2.1.2.3.1 Test Channel = LCH

6.2.1.2.3.1.1 Test RB = RB1#0





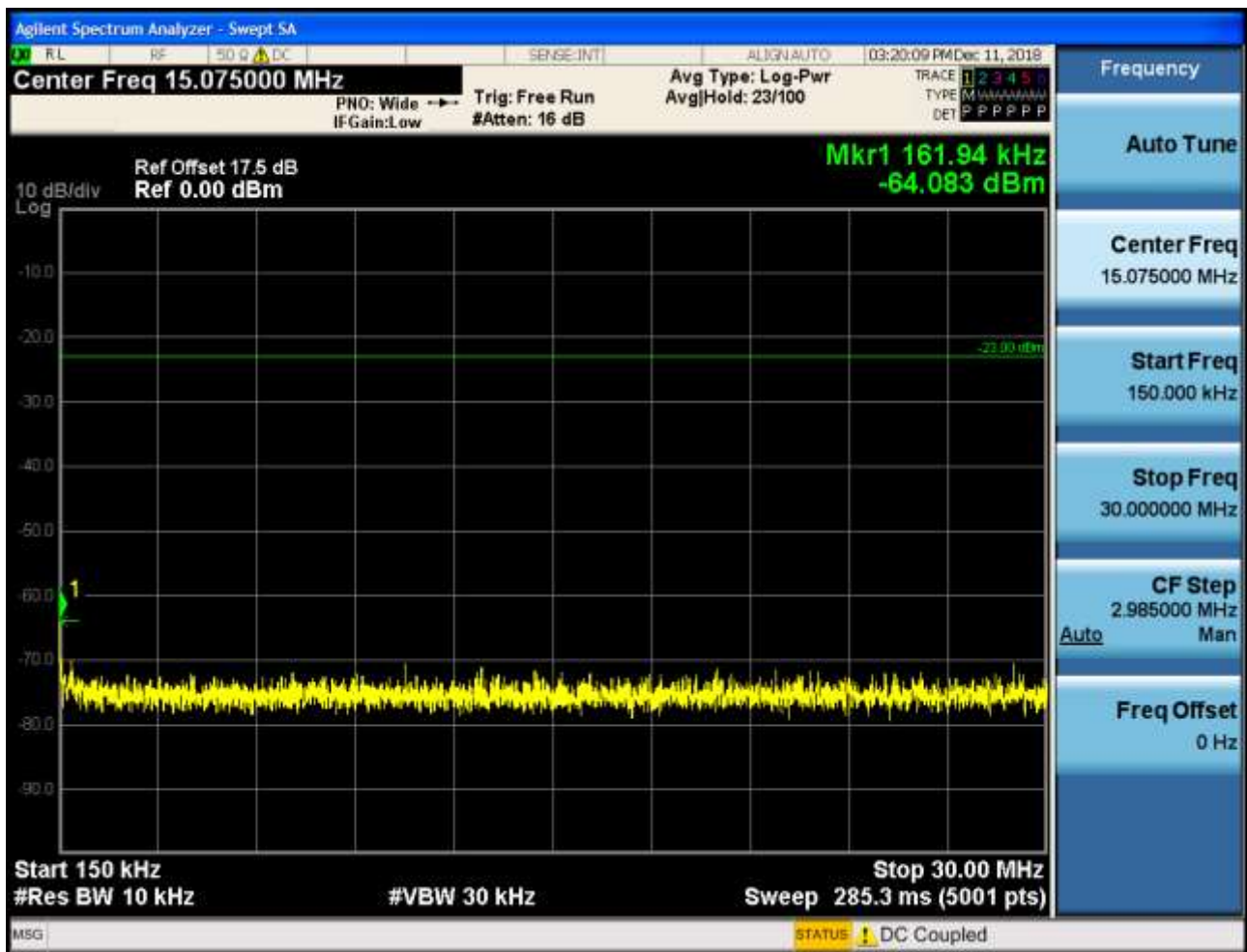


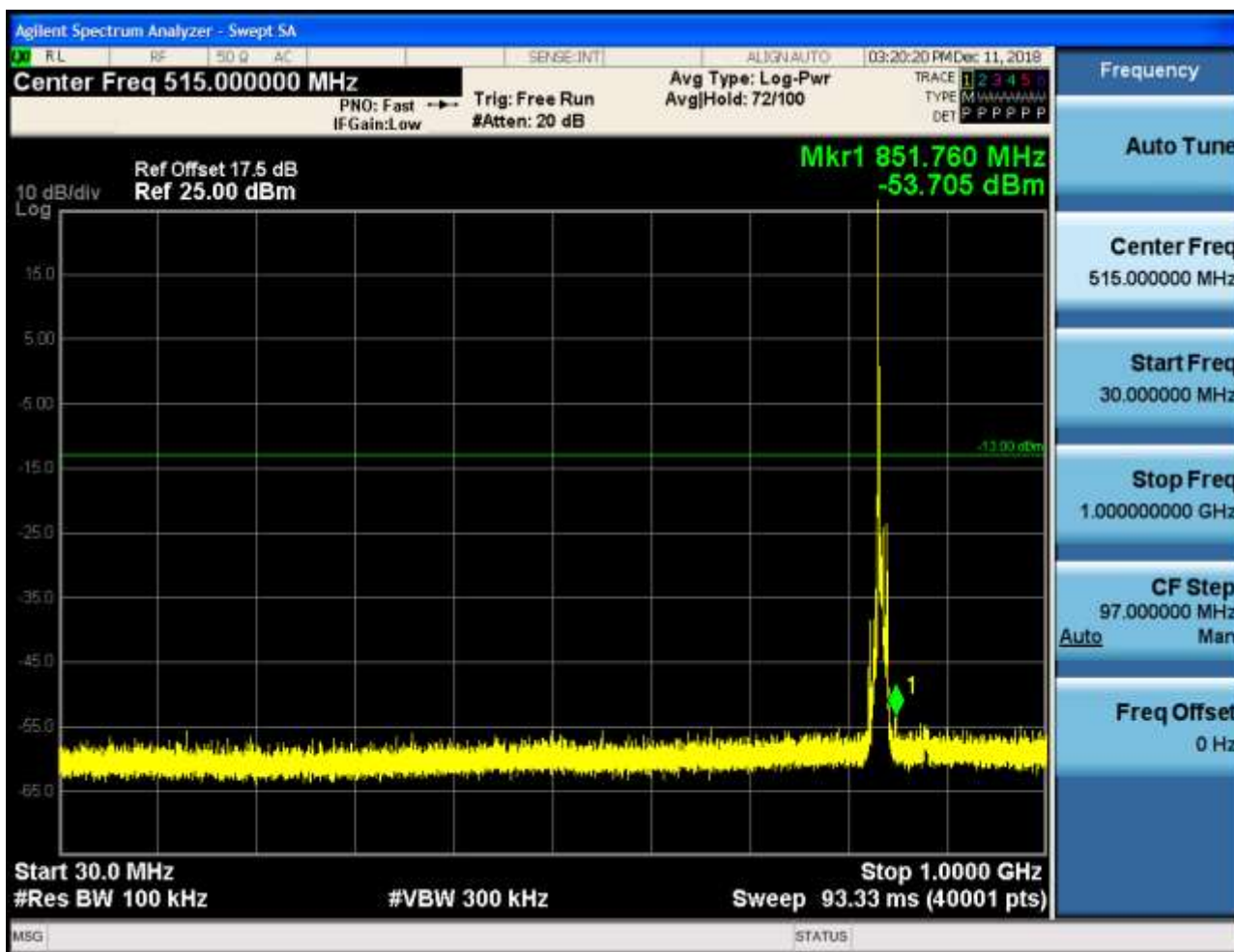


6.2.1.2.3.2 Test Channel = MCH

6.2.1.2.3.2.1 Test RB = RB1#0





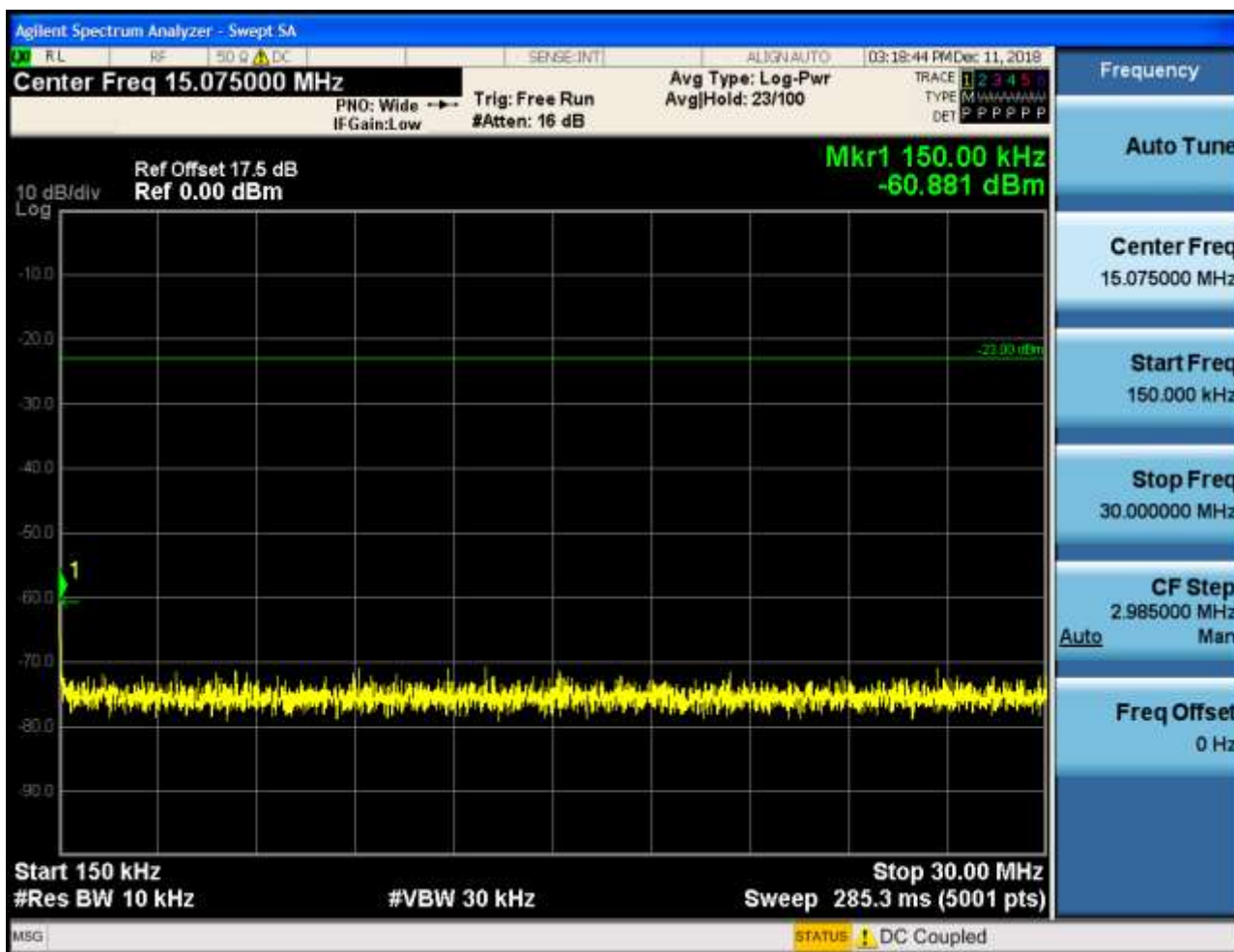


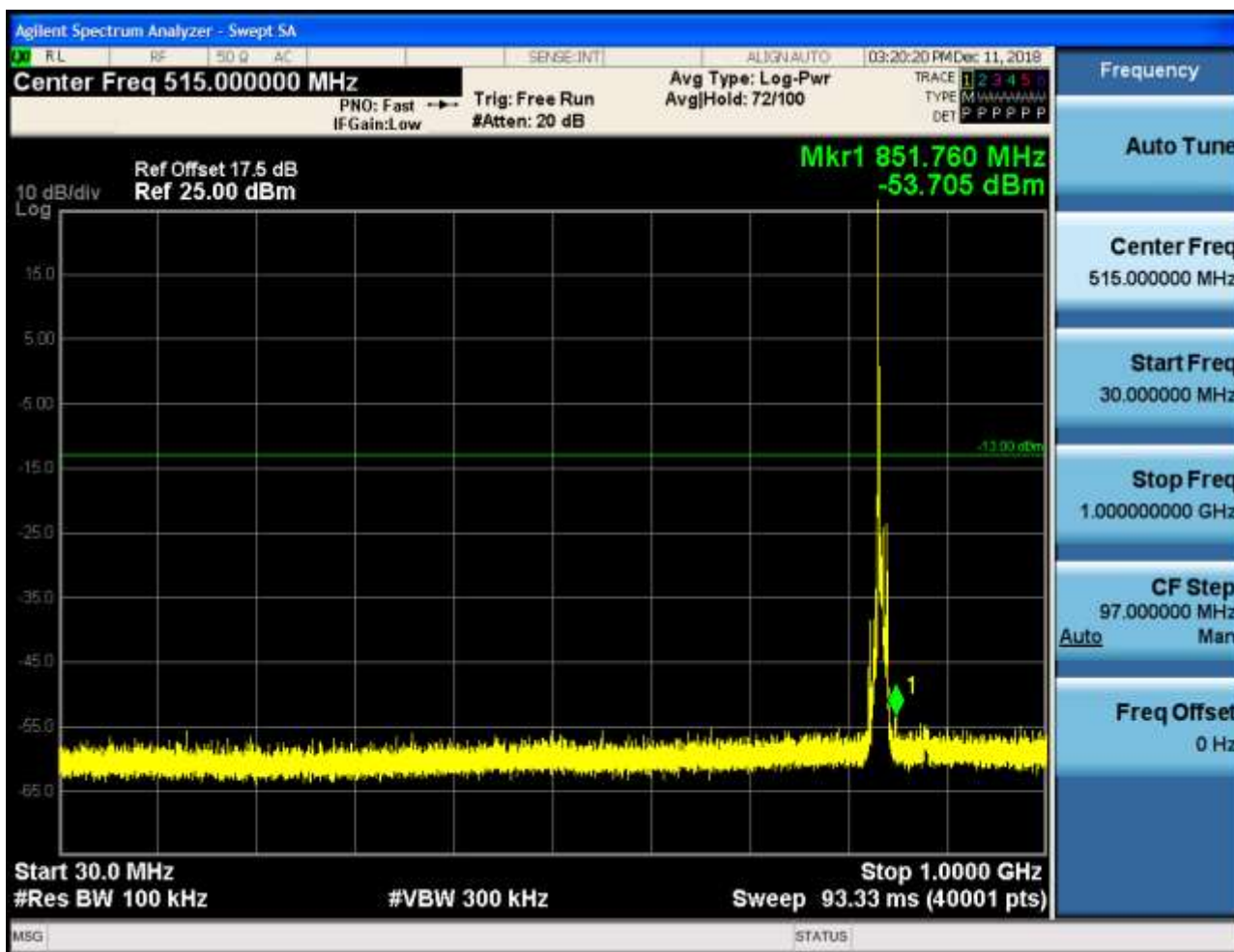


6.2.1.2.3.3 Test Channel = HCH

6.2.1.2.3.3.1 Test RB = RB1#0









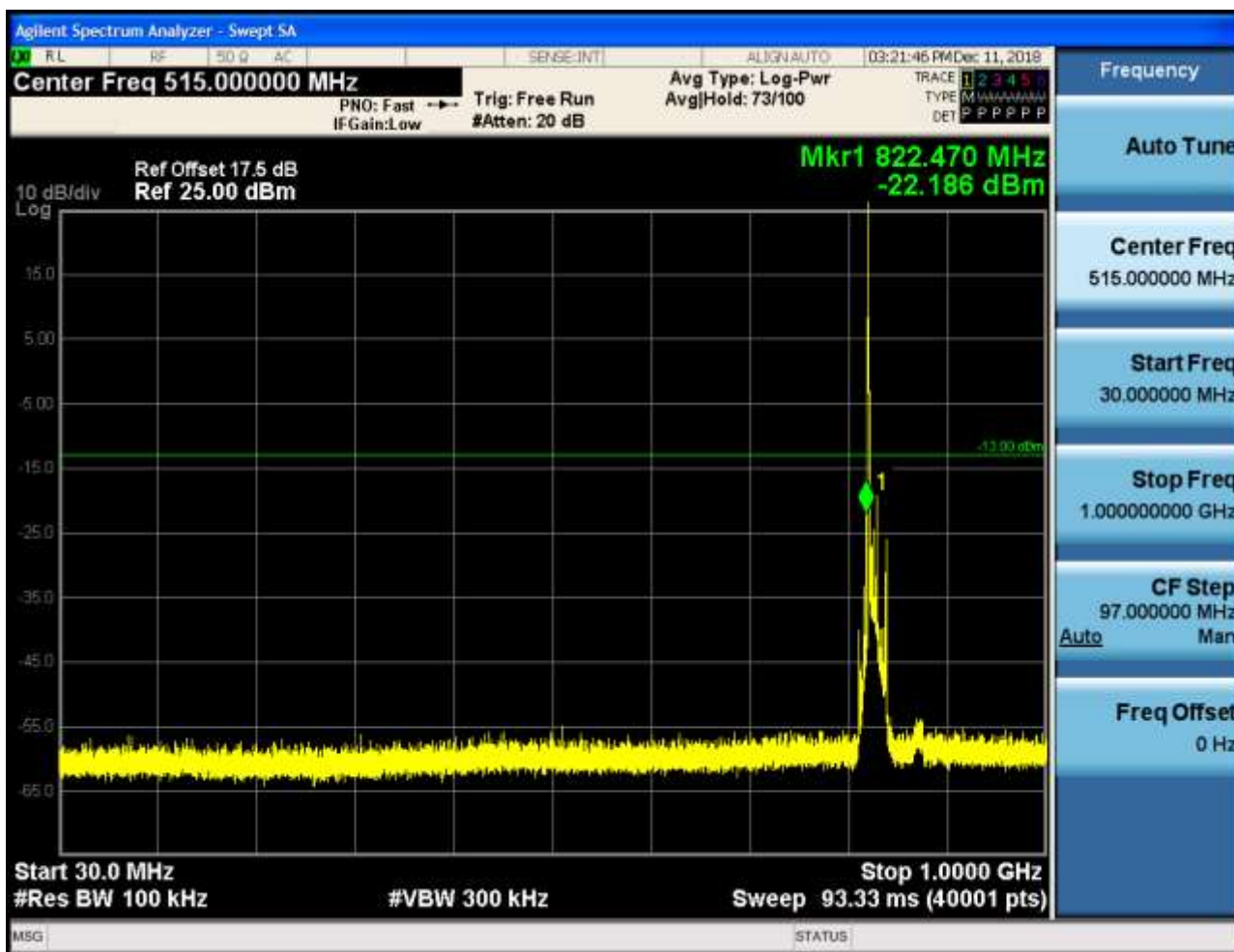
6.2.1.2.4 Test Bandwidth = 10

6.2.1.2.4.1 Test Channel = LCH

6.2.1.2.4.1.1 Test RB = RB1#0







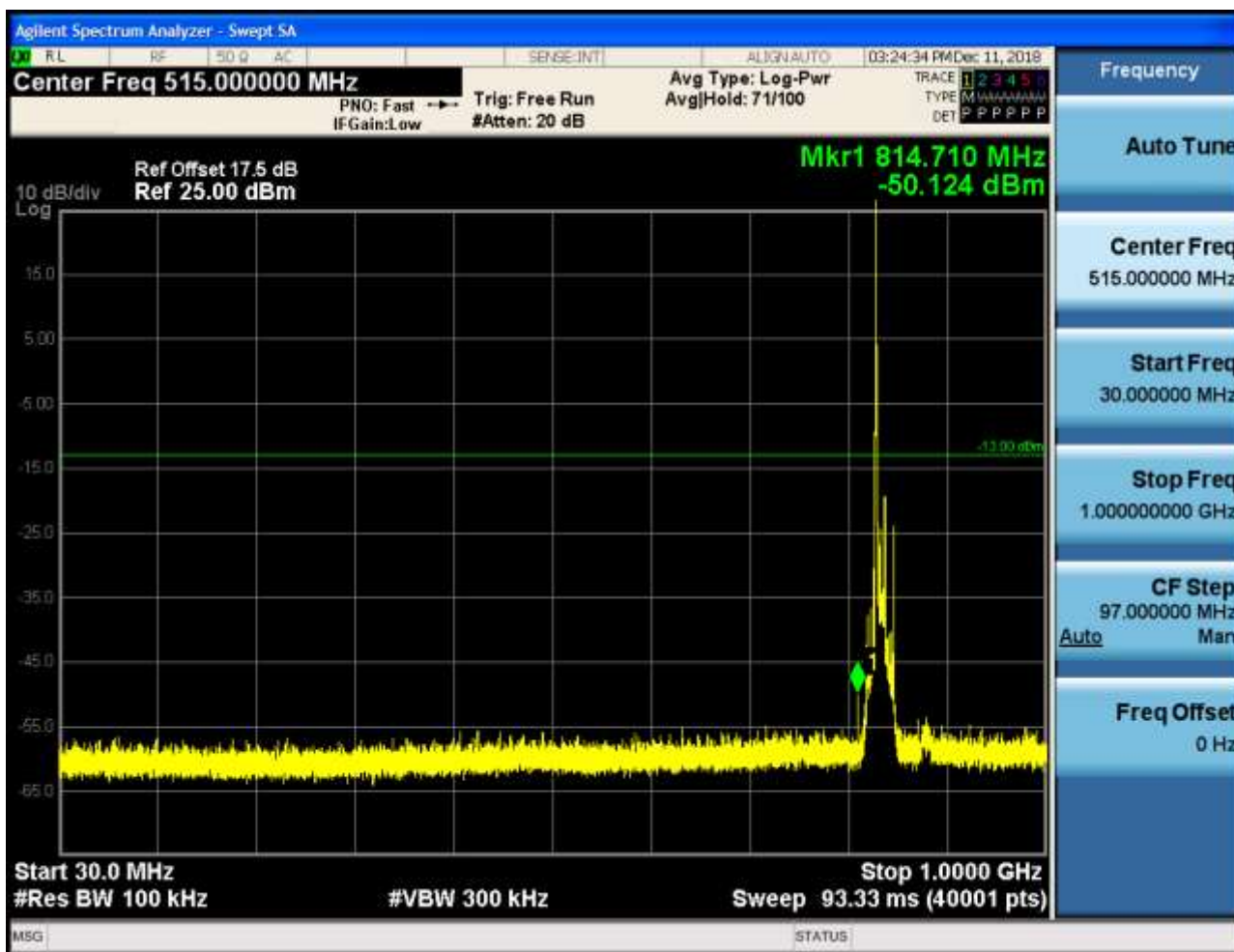


6.2.1.2.4.2 Test Channel = MCH

6.2.1.2.4.2.1 Test RB = RB1#0



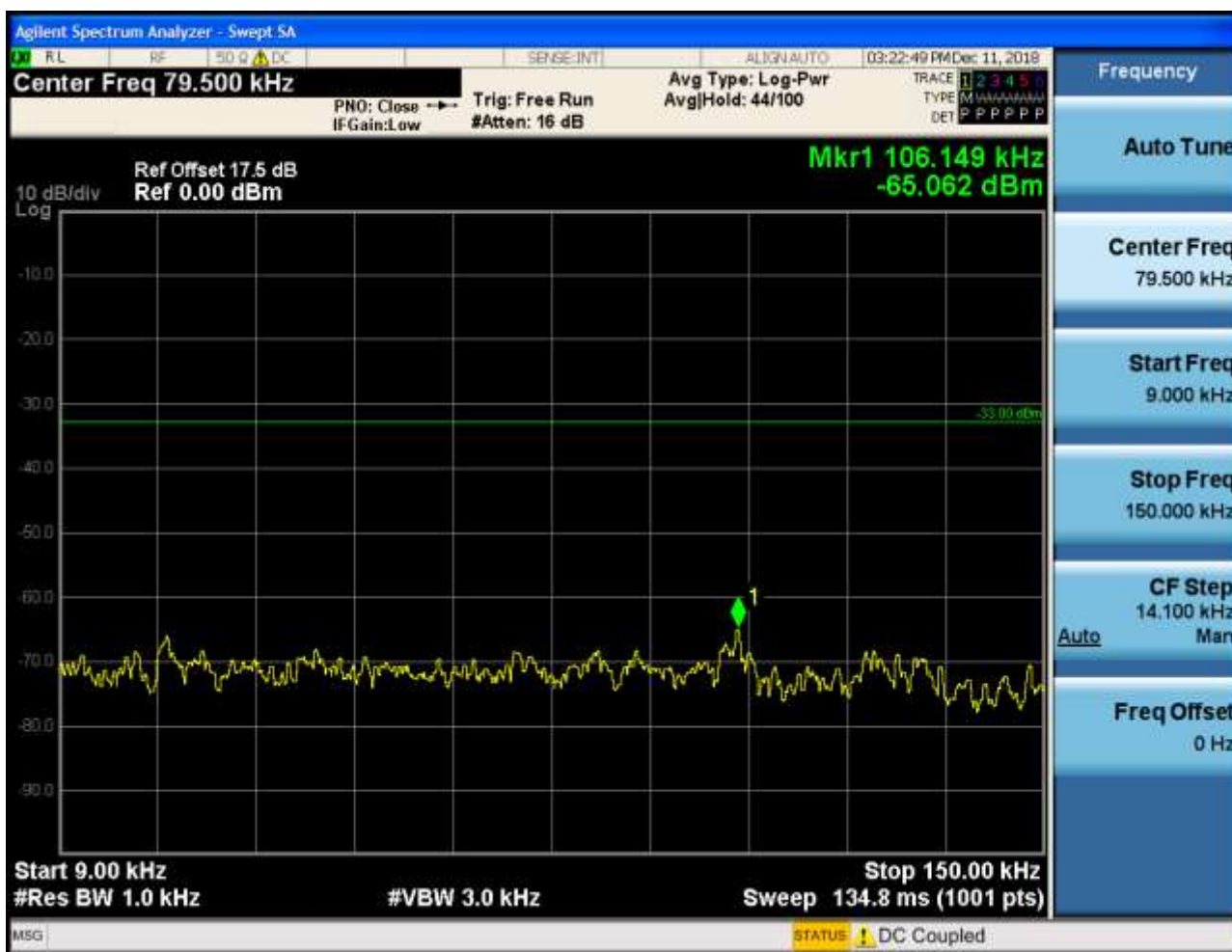




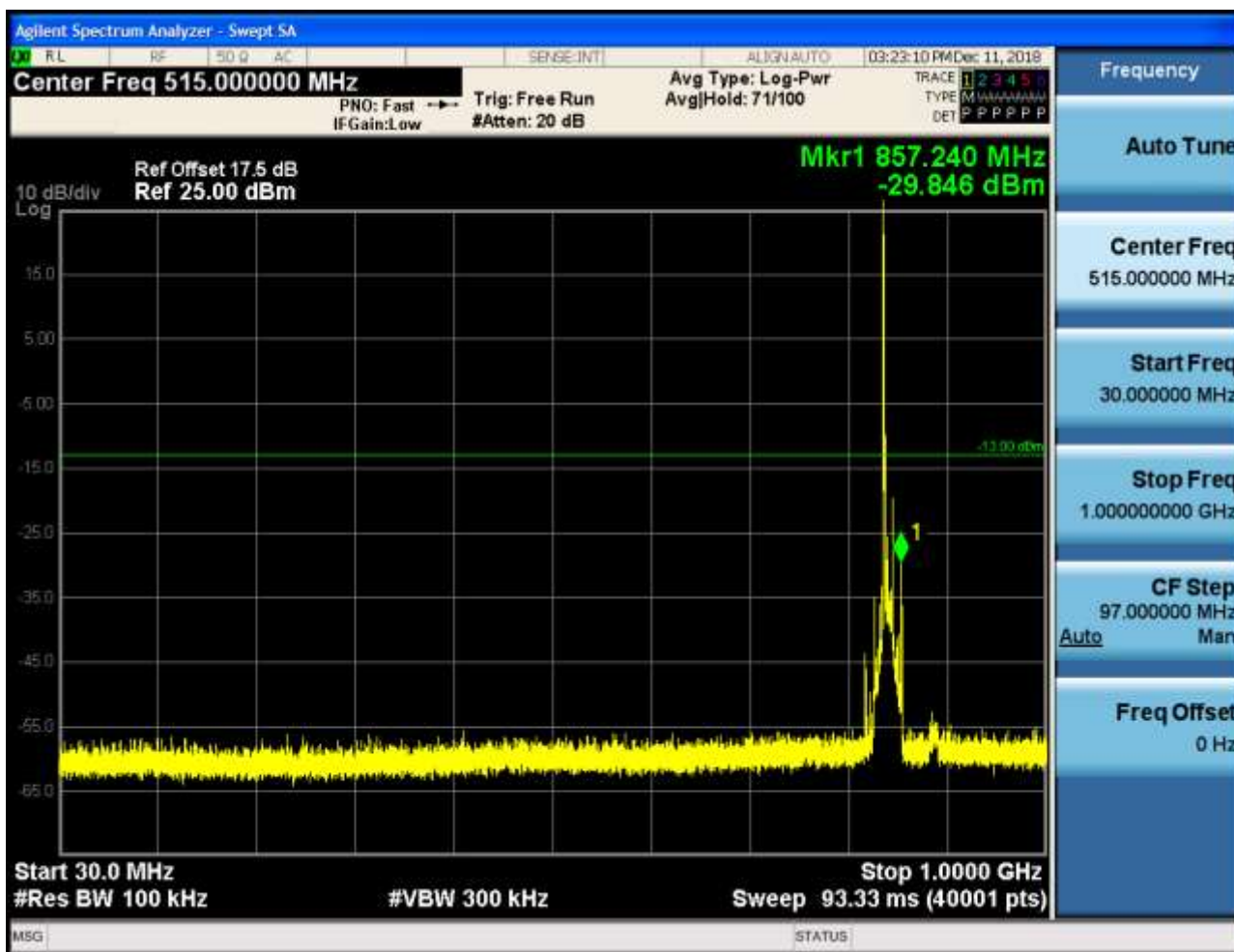


6.2.1.2.4.3 Test Channel = HCH

6.2.1.2.4.3.1 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

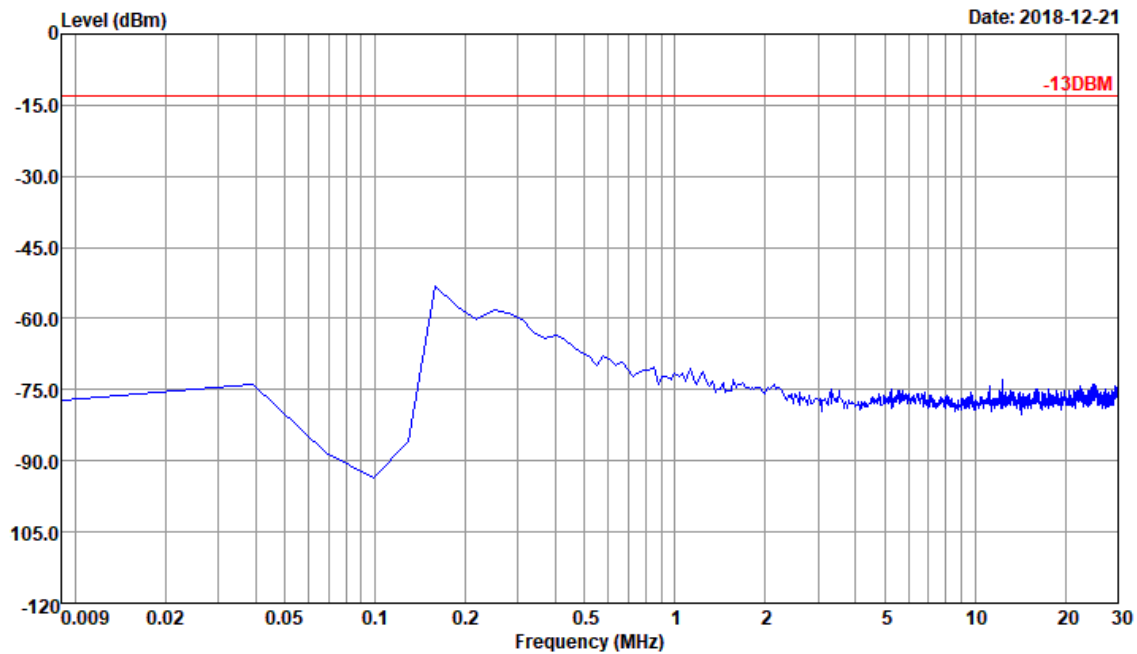
7.1.1 Test Band = Band5

7.1.1.1 Test Bandwidth = 1.4



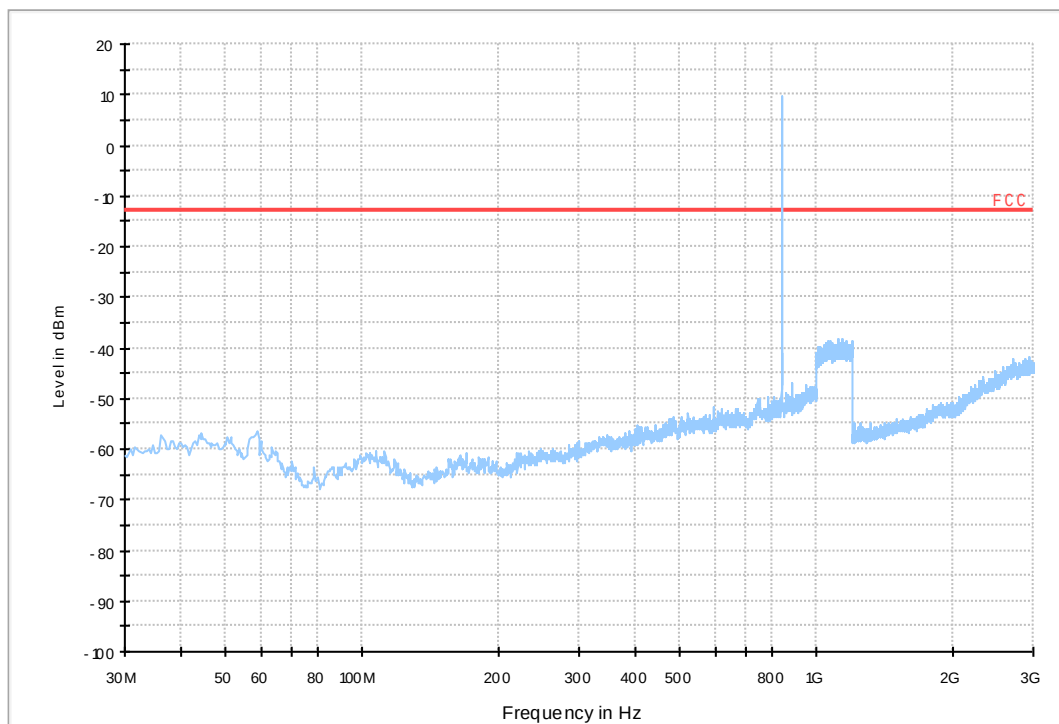
Data: 83

Date: 2018-12-21

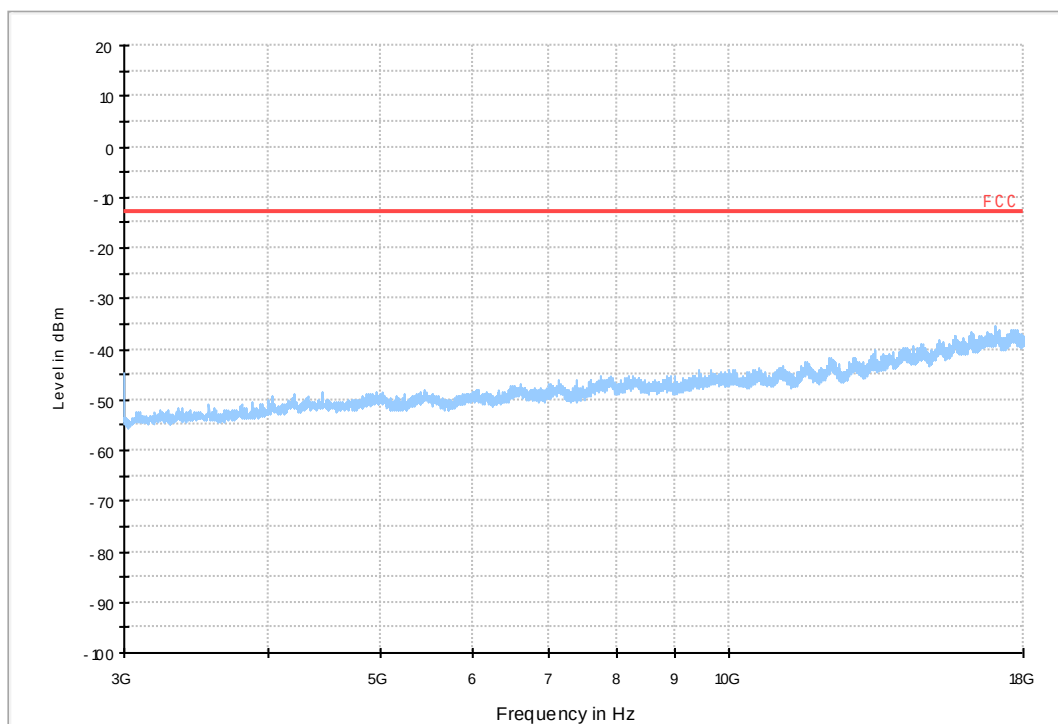


Site : 03CH01-SZ
Condition : -13DBM 9K-30M AMP NEUTRAL
: RBW:9.000KHz VBW:30.000KHz

LTE FDD RSE-TX-DIRECTOR BELOW 1G_L



LTE FDD RSE-TX-DIRECTOR BELOW 1G_H

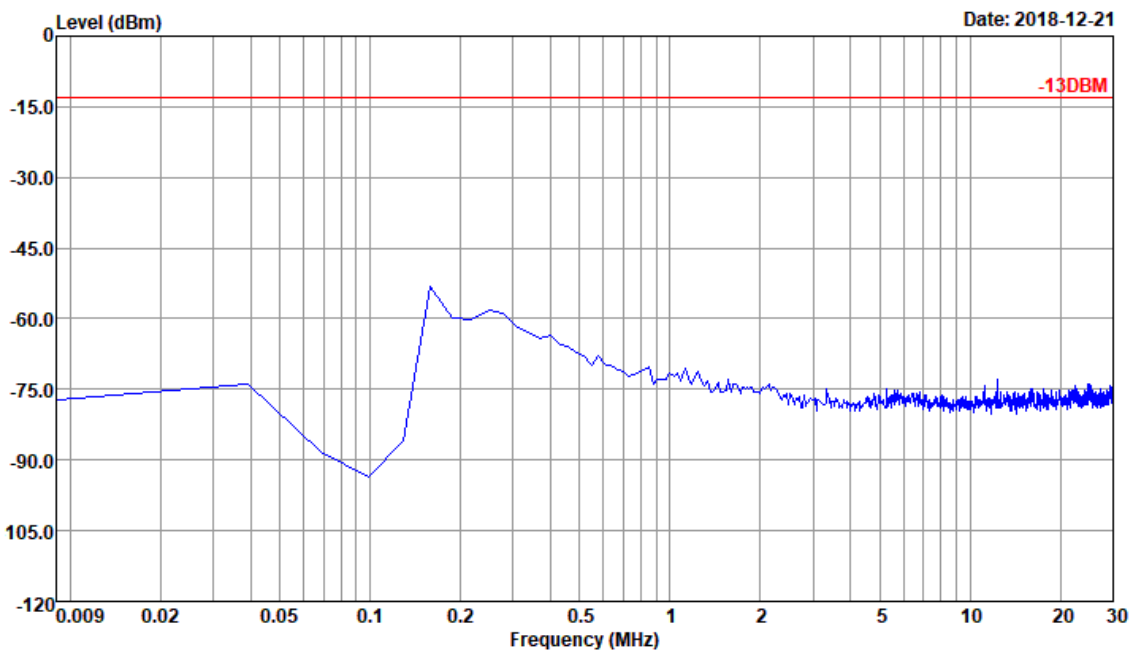




7.1.1.2 Test Bandwidth = 10

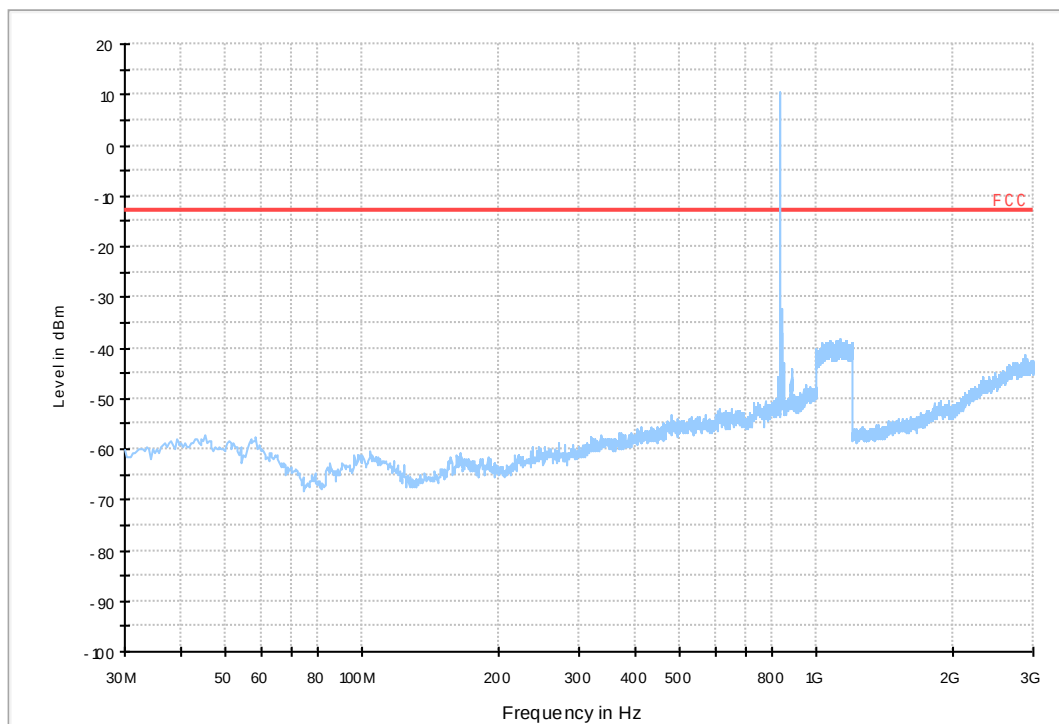


Data: 69

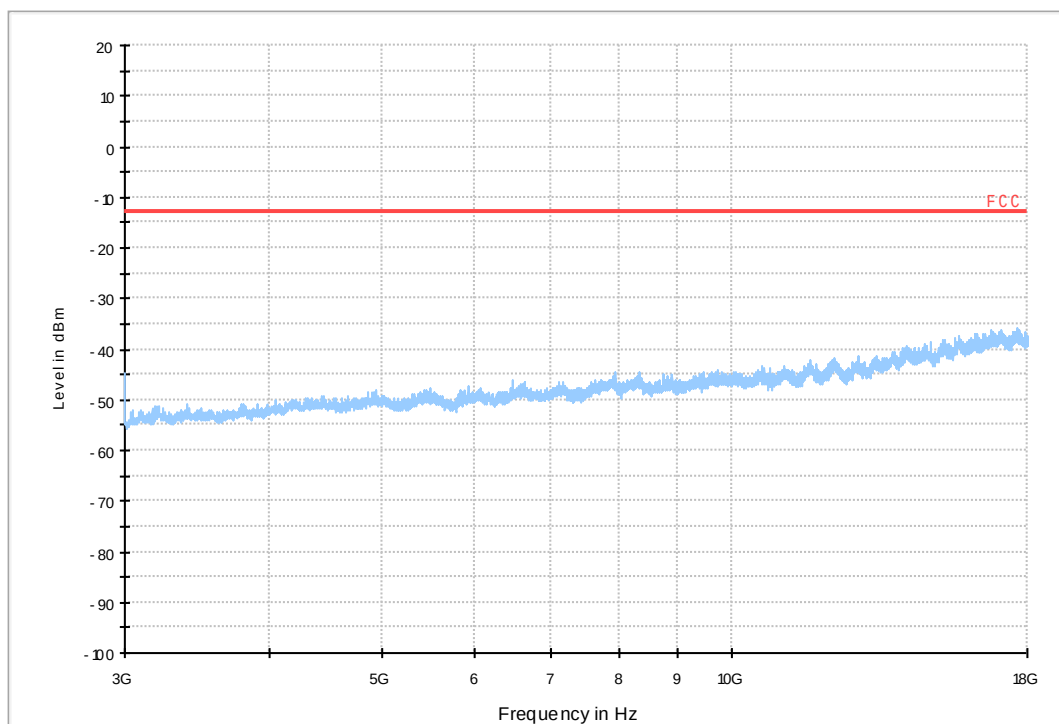


Site : 03CH01-SZ
Condition : -13DBM 9K-30M AMP NEUTRAL
: RBW:9.000KHz VBW:30.000KHz

LTE FDD RSE-TX-DIRECTOR BELOW 1G_L



LTE FDD 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	-7.69615	-0.00933	PASS
					VN	-8.59737	-0.01042	PASS
					VH	-5.43594	-0.00659	PASS
			MCH	TN	VL	-5.35011	-0.00640	PASS
					VN	-4.60625	-0.00551	PASS
					VH	-5.73635	-0.00686	PASS
			HCH	TN	VL	-9.02653	-0.01064	PASS
					VN	-6.35147	-0.00749	PASS
					VH	-0.30041	-0.00035	PASS
		3	LCH	TN	VL	-4.32015	-0.00523	PASS
					VN	-11.01494	-0.01334	PASS
					VH	-11.52992	-0.01397	PASS
			MCH	TN	VL	-6.48022	-0.00775	PASS
					VN	-6.65188	-0.00795	PASS
					VH	-3.93391	-0.00470	PASS
			HCH	TN	VL	-6.13689	-0.00724	PASS
					VN	-7.51018	-0.00886	PASS
					VH	-5.56469	-0.00657	PASS
		5	LCH	TN	VL	-7.68185	-0.00929	PASS
					VN	-9.77039	-0.01182	PASS
					VH	-9.12666	-0.01104	PASS
			MCH	TN	VL	-3.57628	-0.00428	PASS
					VN	-5.46455	-0.00653	PASS
					VH	-9.79900	-0.01171	PASS
			HCH	TN	VL	-9.98497	-0.01180	PASS
					VN	-7.48158	-0.00884	PASS
					VH	-7.29561	-0.00862	PASS
		10	LCH	TN	VL	-8.16822	-0.00985	PASS
					VN	-7.53880	-0.00909	PASS
					VH	-9.22680	-0.01113	PASS
			MCH	TN	VL	-8.22544	-0.00983	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
	LTE/TM2				VN	-4.64916	-0.00556	PASS
					VH	-5.47886	-0.00655	PASS
			HCH	TN	VL	-4.93527	-0.00585	PASS
					VN	-11.28674	-0.01337	PASS
					VH	-6.88076	-0.00815	PASS
					VH	-6.88076	-0.00815	PASS
		1.4	LCH	TN	VL	-5.73635	-0.00696	PASS
					VN	-12.35962	-0.01499	PASS
					VH	-2.54631	-0.00309	PASS
			MCH	TN	VL	-7.13825	-0.00853	PASS
					VN	-9.78470	-0.01170	PASS
					VH	-8.99792	-0.01076	PASS
			HCH	TN	VL	-7.89642	-0.00931	PASS
					VN	0.22888	0.00027	PASS
					VH	-8.58307	-0.01012	PASS
		3	LCH	TN	VL	-3.99113	-0.00483	PASS
					VN	-7.56741	-0.00917	PASS
					VH	-2.46048	-0.00298	PASS
			MCH	TN	VL	-6.78062	-0.00811	PASS
					VN	-9.12666	-0.01091	PASS
					VH	-5.87940	-0.00703	PASS
			HCH	TN	VL	-5.60761	-0.00662	PASS
					VN	-5.97954	-0.00706	PASS
					VH	-4.56333	-0.00538	PASS
		5	LCH	TN	VL	-6.69479	-0.00810	PASS
					VN	-8.51154	-0.01030	PASS
					VH	-6.15120	-0.00744	PASS
			MCH	TN	VL	-4.42028	-0.00528	PASS
					VN	-8.92639	-0.01067	PASS
					VH	-6.82354	-0.00816	PASS
			HCH	TN	VL	-8.05378	-0.00951	PASS
					VN	-8.02517	-0.00948	PASS
					VH	-6.16550	-0.00728	PASS
		10	LCH	TN	VL	-8.05378	-0.00972	PASS
					VN	-7.79629	-0.00940	PASS
					VH	-6.68049	-0.00806	PASS
			MCH	TN	VL	-6.15120	-0.00735	PASS
					VN	-7.46727	-0.00893	PASS
					VH	-3.59058	-0.00429	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	-5.72205	-0.00678	PASS
					VN	-8.48293	-0.01005	PASS
					VH	-4.94957	-0.00586	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	-9.24110	-0.01121	PASS
					-20	-7.23839	-0.00878	PASS
					-10	-6.72340	-0.00815	PASS
					0	-11.04355	-0.01339	PASS
					10	-8.13961	-0.00987	PASS
					20	-8.59737	-0.01042	PASS
					30	-3.39031	-0.00411	PASS
					40	-1.25885	-0.00153	PASS
					50	-8.09670	-0.00982	PASS
			MCH	VN	-30	-6.58035	-0.00787	PASS
					-20	-4.32015	-0.00516	PASS
					-10	-6.19412	-0.00740	PASS
					0	-3.17573	-0.00380	PASS
					10	-6.45161	-0.00771	PASS
					20	-4.60625	-0.00551	PASS
					30	-3.40462	-0.00407	PASS
					40	-3.44753	-0.00412	PASS
					50	-6.62327	-0.00792	PASS
			HCH	VN	-30	-9.39846	-0.01108	PASS
					-20	-10.09941	-0.01191	PASS
					-10	-7.62463	-0.00899	PASS
					0	-11.10077	-0.01309	PASS
					10	-11.88755	-0.01401	PASS
					20	-6.35147	-0.00749	PASS
					30	-4.74930	-0.00560	PASS
					40	-8.74043	-0.01030	PASS
					50	-8.25405	-0.00973	PASS
		3	LCH	VN	-30	-11.25813	-0.01364	PASS
					-20	-10.27107	-0.01244	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					-10	-11.97338	-0.01450	PASS
					0	-12.30240	-0.01490	PASS
					10	-12.91752	-0.01565	PASS
					20	-11.01494	-0.01334	PASS
					30	-10.09941	-0.01223	PASS
					40	-9.14097	-0.01107	PASS
					50	-11.12938	-0.01348	PASS
			MCH	VN	-30	-4.22001	-0.00504	PASS
					-20	-6.95229	-0.00831	PASS
					-10	-5.70774	-0.00682	PASS
					0	-6.26564	-0.00749	PASS
					10	-6.16550	-0.00737	PASS
					20	-6.65188	-0.00795	PASS
					30	-3.57628	-0.00428	PASS
					40	-7.38144	-0.00882	PASS
					50	-7.49588	-0.00896	PASS
			HCH	VN	-30	-9.51290	-0.01122	PASS
					-20	-9.92775	-0.01171	PASS
					-10	-7.12395	-0.00841	PASS
					0	-7.96795	-0.00940	PASS
					10	-6.17981	-0.00729	PASS
					20	-7.51018	-0.00886	PASS
					30	-8.49724	-0.01003	PASS
					40	-7.83920	-0.00925	PASS
					50	-6.39439	-0.00754	PASS
		5	LCH	VN	-30	-6.88076	-0.00833	PASS
					-20	-5.52177	-0.00668	PASS
					-10	-6.90937	-0.00836	PASS
					0	-6.70910	-0.00812	PASS
					10	-6.70910	-0.00812	PASS
					20	-9.77039	-0.01182	PASS
					30	-7.29561	-0.00883	PASS
					40	-10.35690	-0.01253	PASS
					50	-7.71046	-0.00933	PASS
			MCH	VN	-30	-9.08375	-0.01086	PASS
					-20	-4.43459	-0.00530	PASS
					-10	-6.38008	-0.00763	PASS
					0	-8.25405	-0.00987	PASS
					10	-5.99384	-0.00717	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					20	-5.46455	-0.00653	PASS
					30	-5.85079	-0.00699	PASS
					40	-8.64029	-0.01033	PASS
					50	-8.21114	-0.00982	PASS
			HCH	VN	-30	-4.23431	-0.00500	PASS
					-20	-7.55310	-0.00892	PASS
					-10	-8.22544	-0.00972	PASS
					0	-8.16822	-0.00965	PASS
					10	-4.82082	-0.00570	PASS
					20	-7.48158	-0.00884	PASS
					30	-3.77655	-0.00446	PASS
					40	-8.06808	-0.00953	PASS
					50	-7.48158	-0.00884	PASS
		10	LCH	VN	-30	-9.32694	-0.01125	PASS
					-20	-8.02517	-0.00968	PASS
					-10	-7.78198	-0.00939	PASS
					0	-10.97202	-0.01324	PASS
					10	-6.79493	-0.00820	PASS
					20	-7.53880	-0.00909	PASS
					30	-8.05378	-0.00972	PASS
					40	-6.75201	-0.00814	PASS
					50	-5.87940	-0.00709	PASS
			MCH	VN	-30	-9.67026	-0.01156	PASS
					-20	-6.06537	-0.00725	PASS
					-10	-5.82218	-0.00696	PASS
					0	-5.00679	-0.00599	PASS
					10	-8.68320	-0.01038	PASS
					20	-4.64916	-0.00556	PASS
					30	-3.74794	-0.00448	PASS
					40	-7.48158	-0.00894	PASS
					50	-6.60896	-0.00790	PASS
			HCH	VN	-30	-6.90937	-0.00819	PASS
					-20	-11.75880	-0.01393	PASS
					-10	-8.49724	-0.01007	PASS
					0	-9.57012	-0.01134	PASS
					10	-6.25134	-0.00741	PASS
					20	-11.28674	-0.01337	PASS
					30	-12.67433	-0.01502	PASS
					40	-11.24382	-0.01332	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					50	-8.78334	-0.01041	PASS
	LTE/TM2	1.4	LCH	VN	-30	-11.74450	-0.01424	PASS
					-20	-9.19819	-0.01115	PASS
					-10	-10.97202	-0.01330	PASS
					0	-1.17302	-0.00142	PASS
					10	-10.07080	-0.01221	PASS
					20	-12.35962	-0.01499	PASS
					30	-9.52721	-0.01155	PASS
					40	-10.75745	-0.01304	PASS
					50	-12.34531	-0.01497	PASS
					MCH	VN	-30	-6.16550
			-20	-8.78334			-0.01050	PASS
			-10	-7.56741			-0.00905	PASS
			0	-8.26836			-0.00988	PASS
			10	-4.84943			-0.00580	PASS
			20	-9.78470			-0.01170	PASS
			30	-6.50883			-0.00778	PASS
			40	-8.78334			-0.01050	PASS
			50	-8.18253			-0.00978	PASS
			HCH	VN	-30	-2.93255	-0.00346	PASS
					-20	0.51498	0.00061	PASS
					-10	1.48773	0.00175	PASS
					0	-2.96116	-0.00349	PASS
					10	1.87397	0.00221	PASS
					20	0.22888	0.00027	PASS
					30	-7.71046	-0.00909	PASS
					40	-1.38760	-0.00164	PASS
					50	-2.93255	-0.00346	PASS
			3	LCH	VN	-30	-6.38008	-0.00773
		-20				-8.06808	-0.00977	PASS
		-10				-6.22272	-0.00754	PASS
		0				-7.73907	-0.00938	PASS
		10				-7.03812	-0.00853	PASS
		20				-7.56741	-0.00917	PASS
		30				-7.62463	-0.00924	PASS
		40				-4.86374	-0.00589	PASS
		50				-5.42164	-0.00657	PASS
		MCH		VN	-30	-7.61032	-0.00910	PASS
	-20				-10.44273	-0.01248	PASS	

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					-10	-7.61032	-0.00910	PASS
					0	-7.53880	-0.00901	PASS
					10	-8.71181	-0.01041	PASS
					20	-9.12666	-0.01091	PASS
					30	-4.67777	-0.00559	PASS
					40	-9.58443	-0.01146	PASS
					50	-7.61032	-0.00910	PASS
			HCH	VN	-30	-7.81059	-0.00922	PASS
					-20	-10.80036	-0.01274	PASS
					-10	-8.68320	-0.01025	PASS
					0	-8.96931	-0.01058	PASS
					10	-8.62598	-0.01018	PASS
					20	-5.97954	-0.00706	PASS
					30	-6.15120	-0.00726	PASS
					40	-9.36985	-0.01106	PASS
					50	-5.53608	-0.00653	PASS
		5	LCH	VN	-30	-9.09805	-0.01101	PASS
					-20	-6.06537	-0.00734	PASS
					-10	-5.47886	-0.00663	PASS
					0	-8.16822	-0.00988	PASS
					10	-4.96387	-0.00601	PASS
					20	-8.51154	-0.01030	PASS
					30	-7.42436	-0.00898	PASS
					40	-7.78198	-0.00942	PASS
					50	-7.75337	-0.00938	PASS
			MCH	VN	-30	-6.93798	-0.00829	PASS
					-20	-4.06265	-0.00486	PASS
					-10	-9.14097	-0.01093	PASS
					0	-1.01566	-0.00121	PASS
					10	-3.61919	-0.00433	PASS
					20	-8.92639	-0.01067	PASS
					30	-8.21114	-0.00982	PASS
					40	-5.12123	-0.00612	PASS
					50	-7.58171	-0.00906	PASS
			HCH	VN	-30	-5.37872	-0.00635	PASS
					-20	-7.00951	-0.00828	PASS
					-10	-8.11100	-0.00958	PASS
					0	-6.66618	-0.00787	PASS
					10	-1.33038	-0.00157	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					20	-8.02517	-0.00948	PASS
					30	-6.46591	-0.00764	PASS
					40	-8.41141	-0.00994	PASS
					50	-5.79357	-0.00684	PASS
		10	LCH	VN	-30	-6.09398	-0.00735	PASS
					-20	-7.30991	-0.00882	PASS
					-10	-7.22408	-0.00871	PASS
					0	-6.96659	-0.00840	PASS
					10	-5.16415	-0.00623	PASS
					20	-7.79629	-0.00940	PASS
					30	-6.19412	-0.00747	PASS
					40	-6.82354	-0.00823	PASS
					50	-6.98090	-0.00842	PASS
			MCH	VN	-30	-4.56333	-0.00546	PASS
					-20	-5.46455	-0.00653	PASS
					-10	-6.82354	-0.00816	PASS
					0	-6.88076	-0.00823	PASS
					10	-9.28402	-0.01110	PASS
					20	-7.46727	-0.00893	PASS
					30	-5.36442	-0.00641	PASS
					40	-6.68049	-0.00799	PASS
					50	-7.92503	-0.00947	PASS
			HCH	VN	-30	-3.99113	-0.00473	PASS
					-20	-4.62055	-0.00547	PASS
					-10	-3.40462	-0.00403	PASS
					0	-7.95364	-0.00942	PASS
					10	-5.85079	-0.00693	PASS
					20	-8.48293	-0.01005	PASS
					30	-9.29833	-0.01102	PASS
					40	-6.49452	-0.00769	PASS
					50	-5.80788	-0.00688	PASS

END