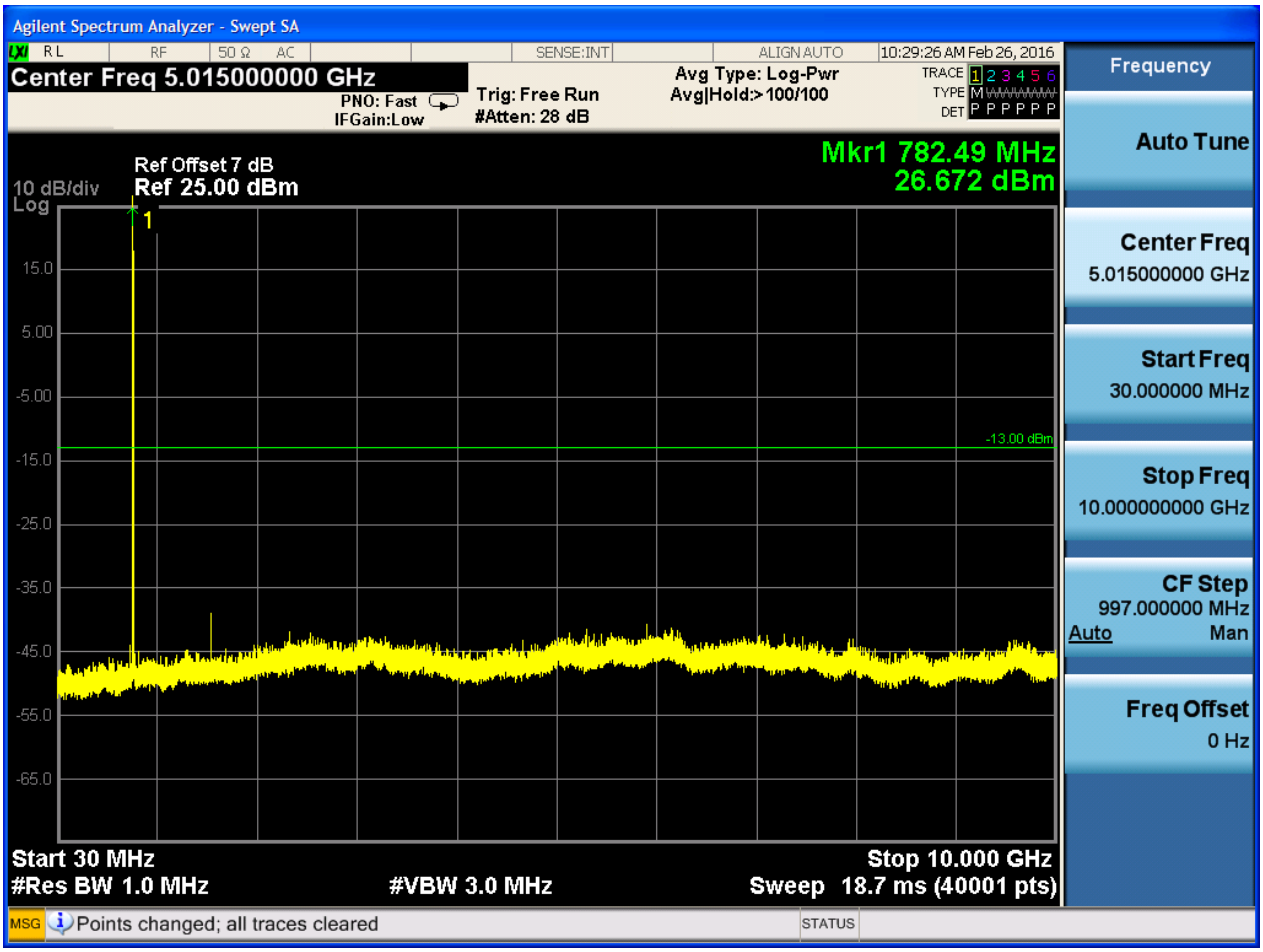

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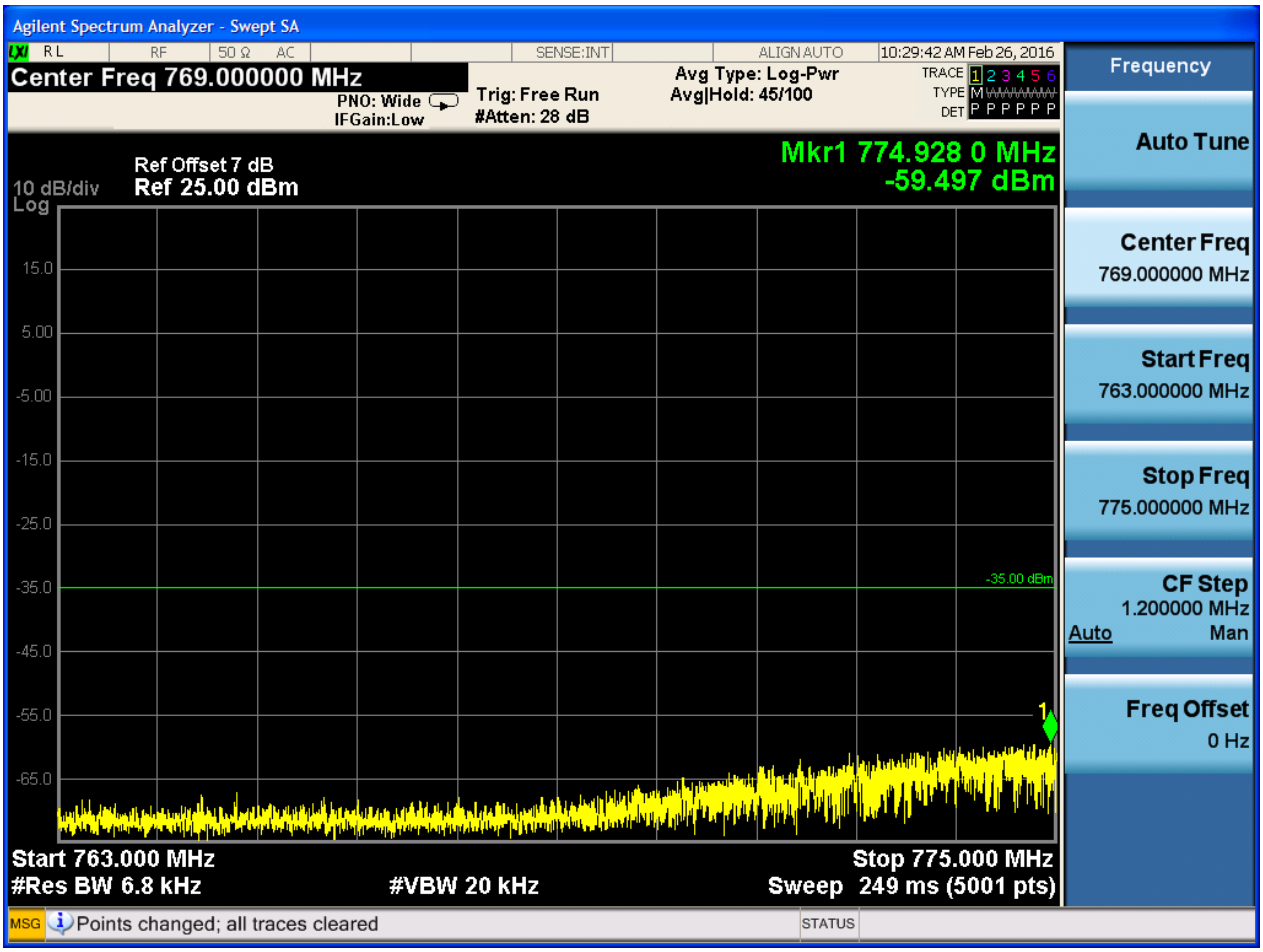

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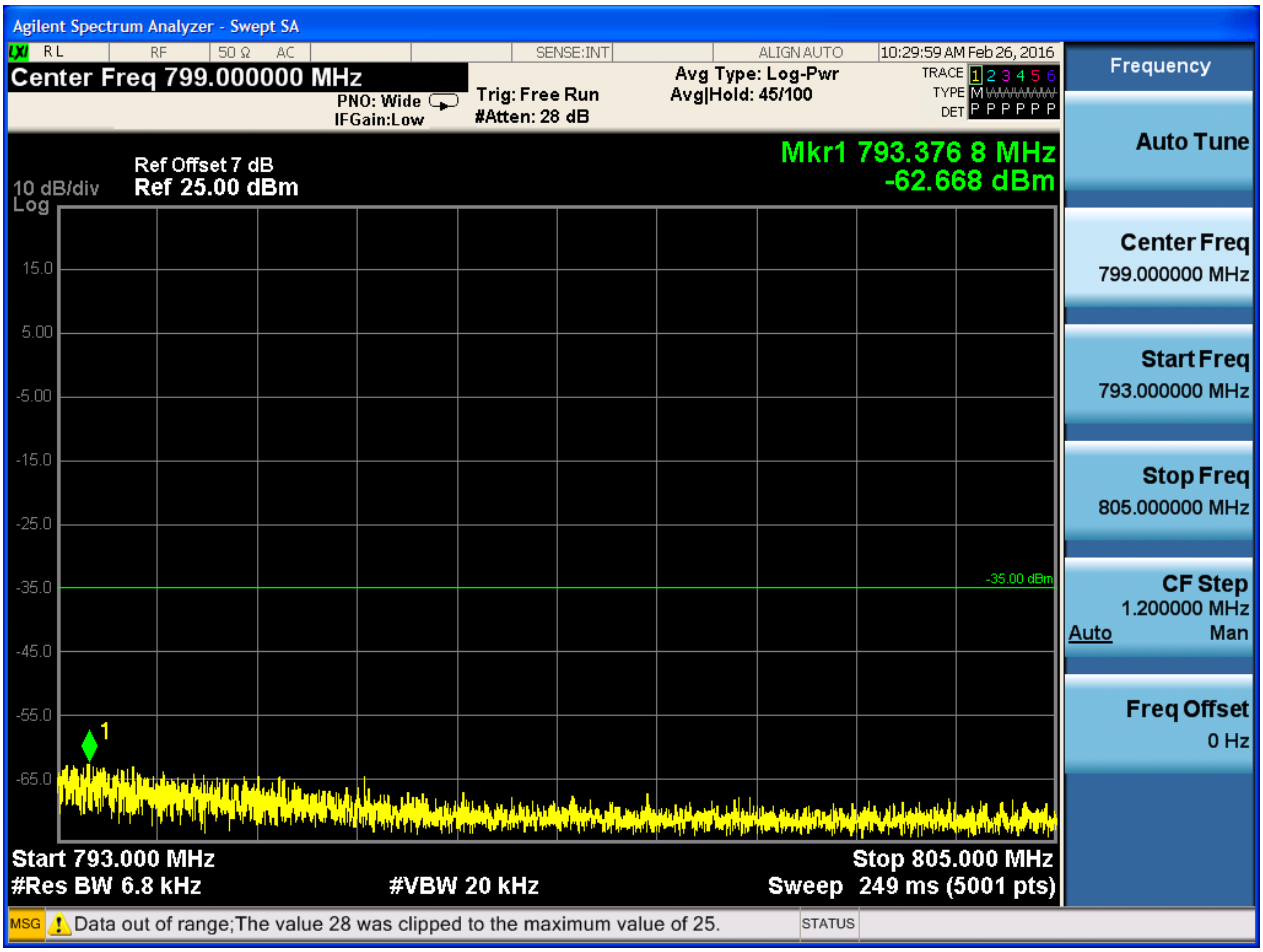

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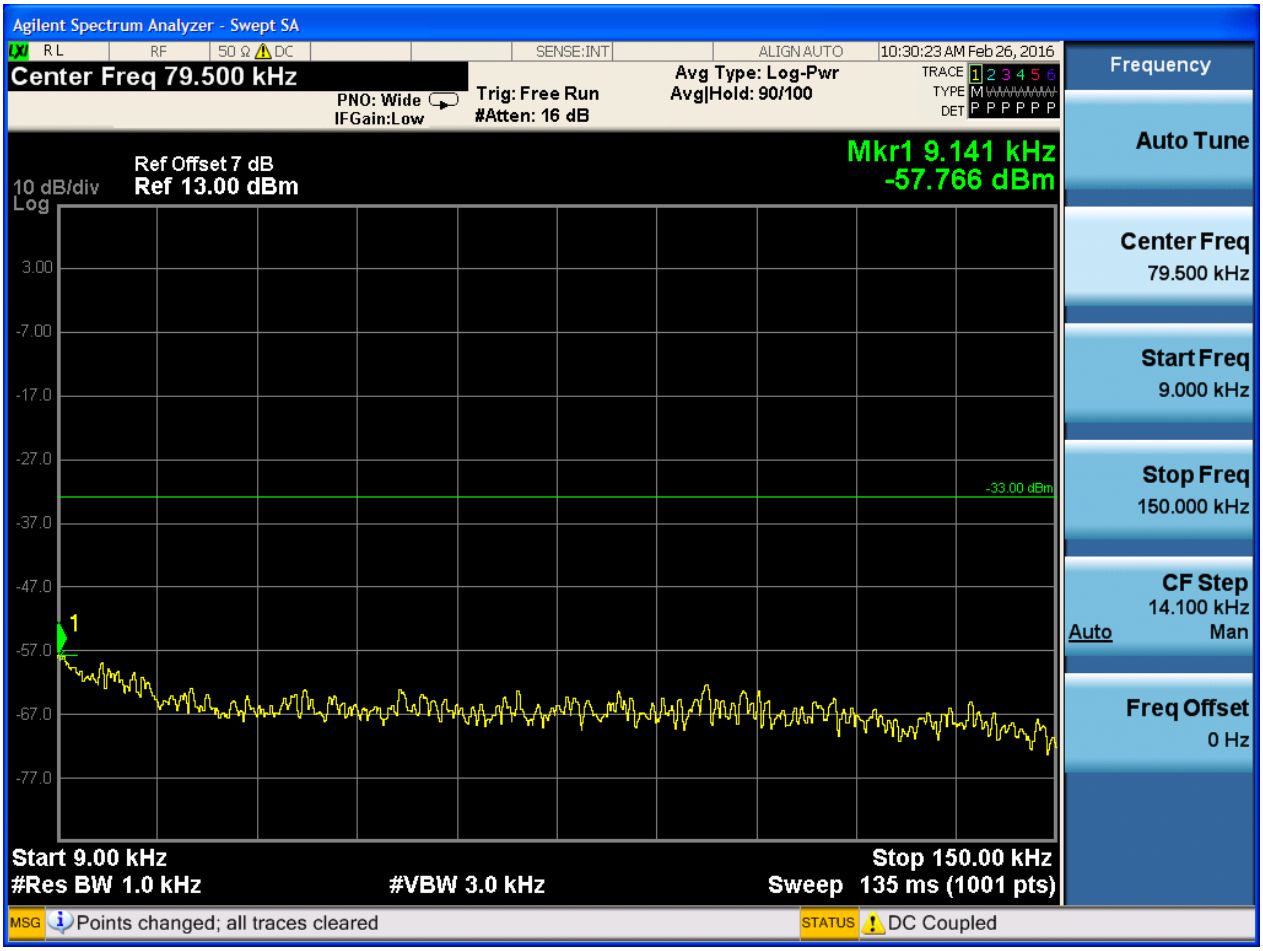
6.1.1.1.2 Test Bandwidth = 10

6.1.1.1.2.1 Test Channel = LCH

6.1.1.1.2.1.1 Test RB = RB1#0



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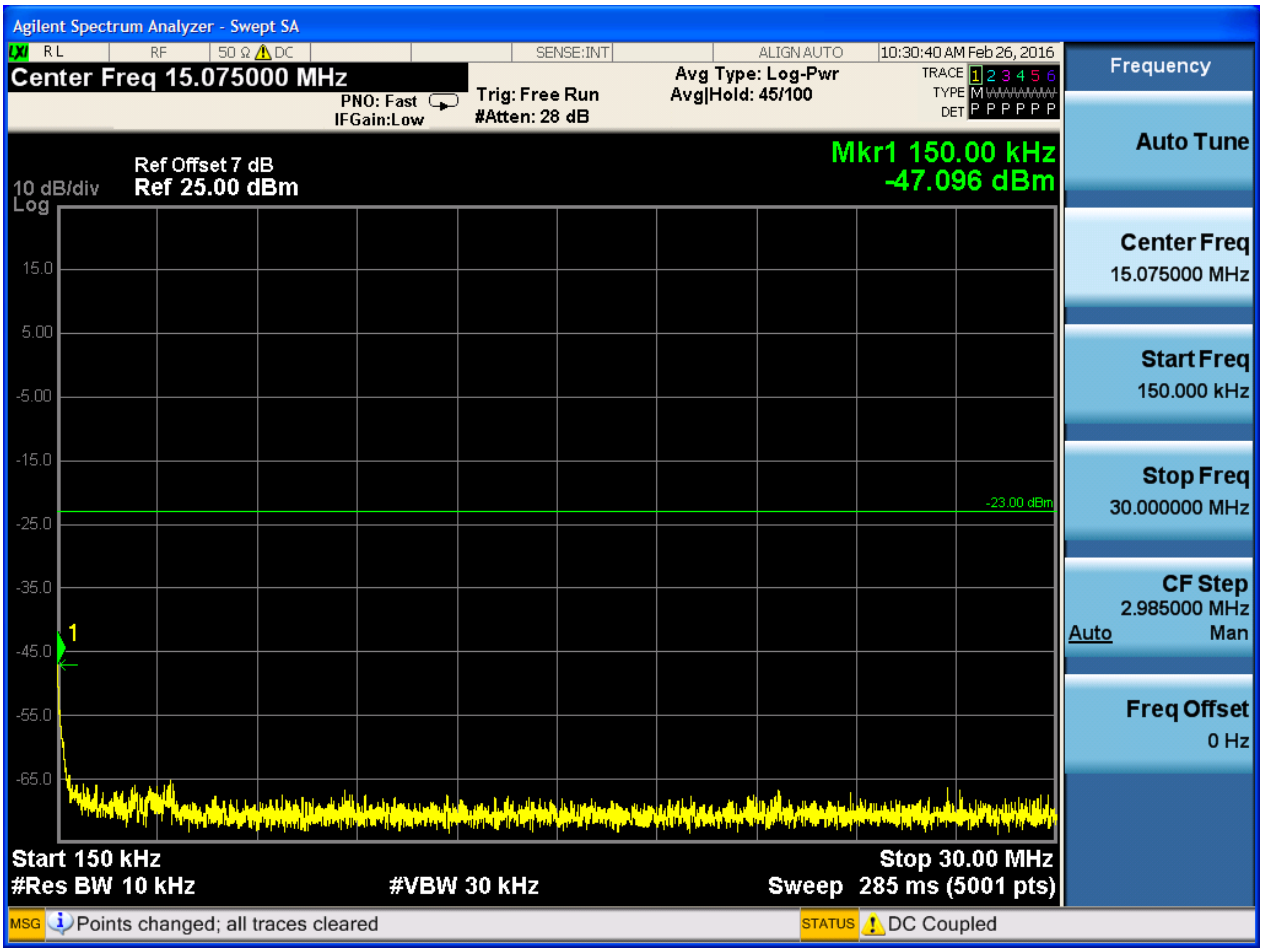

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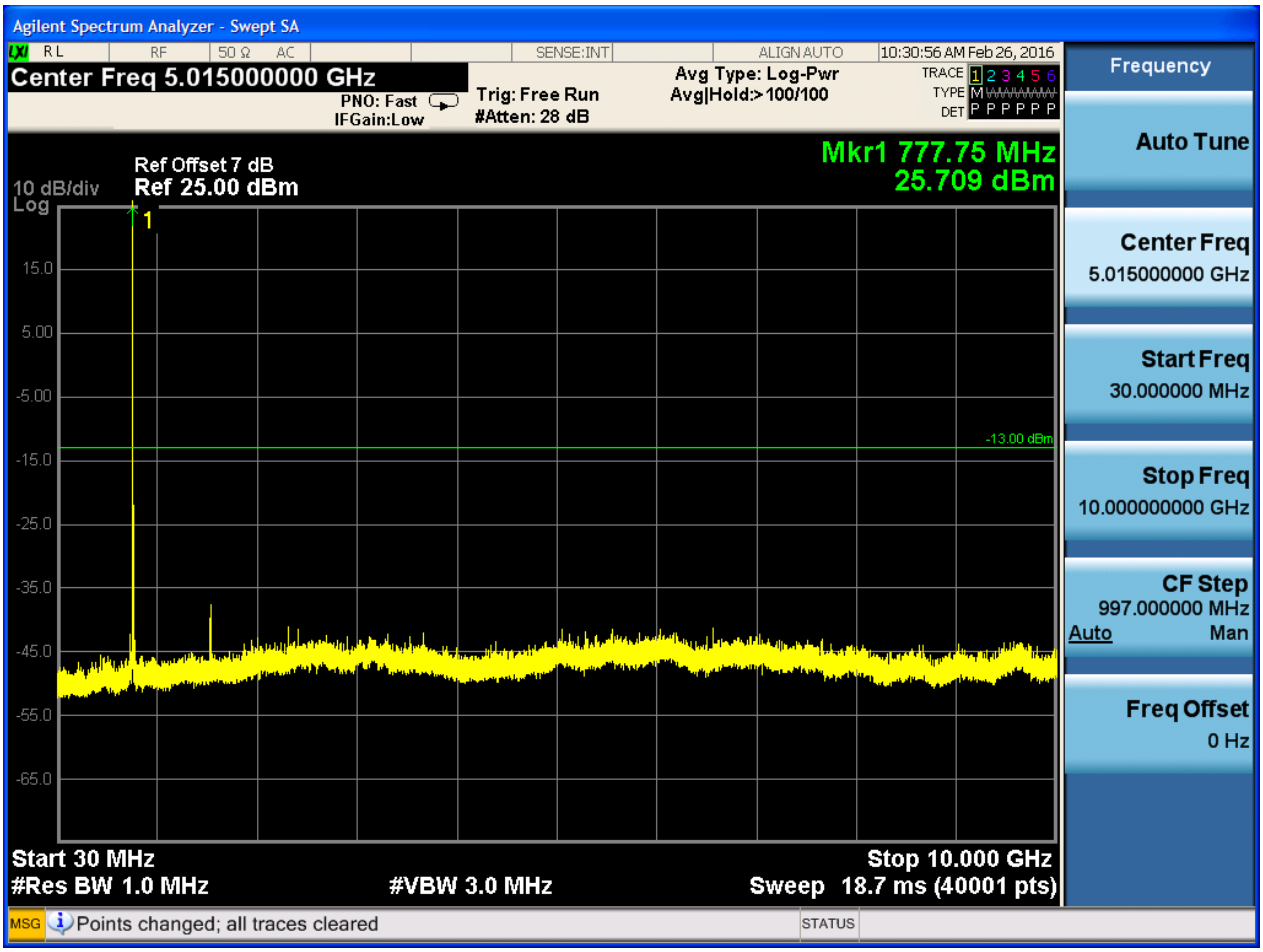

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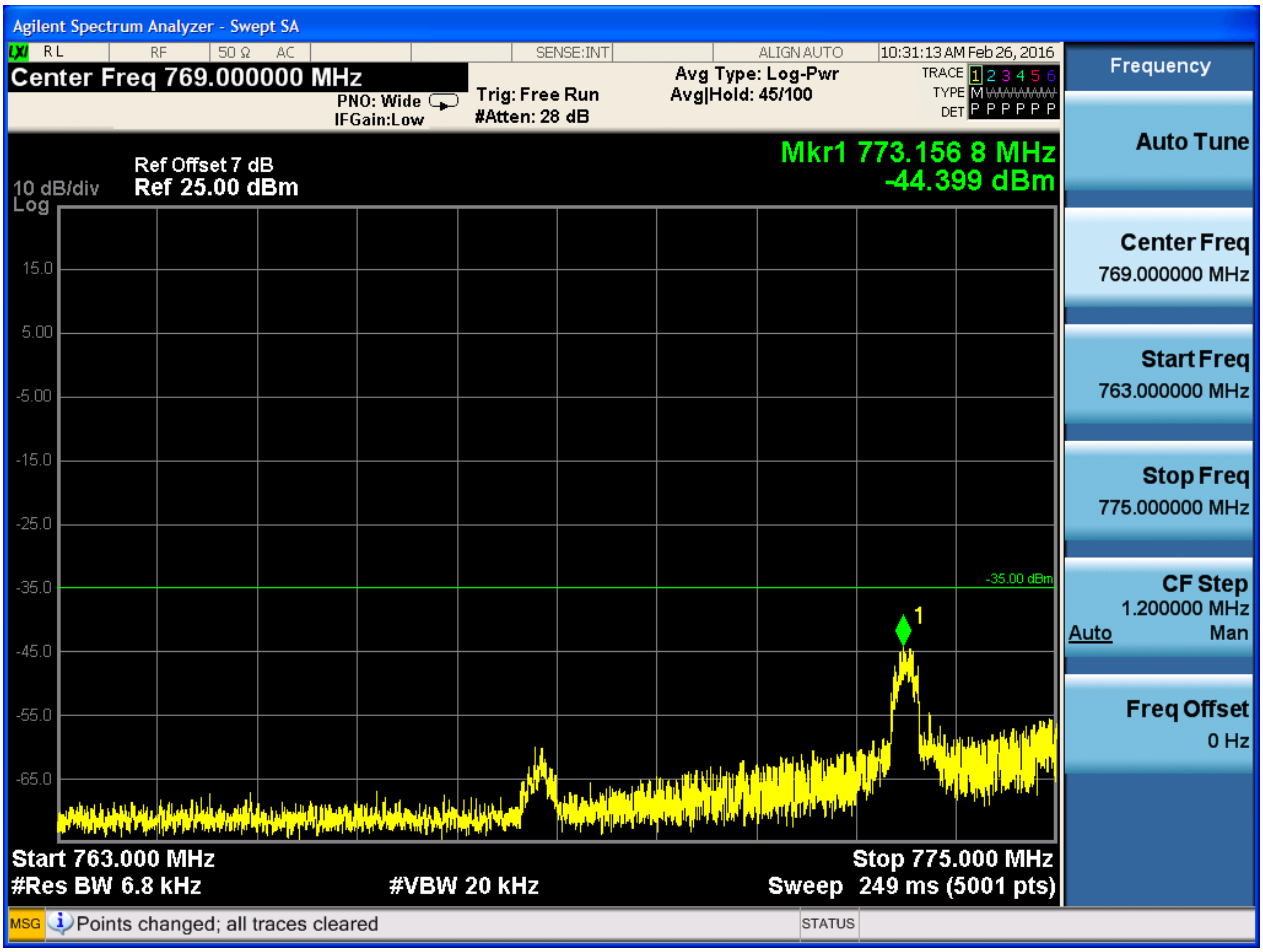

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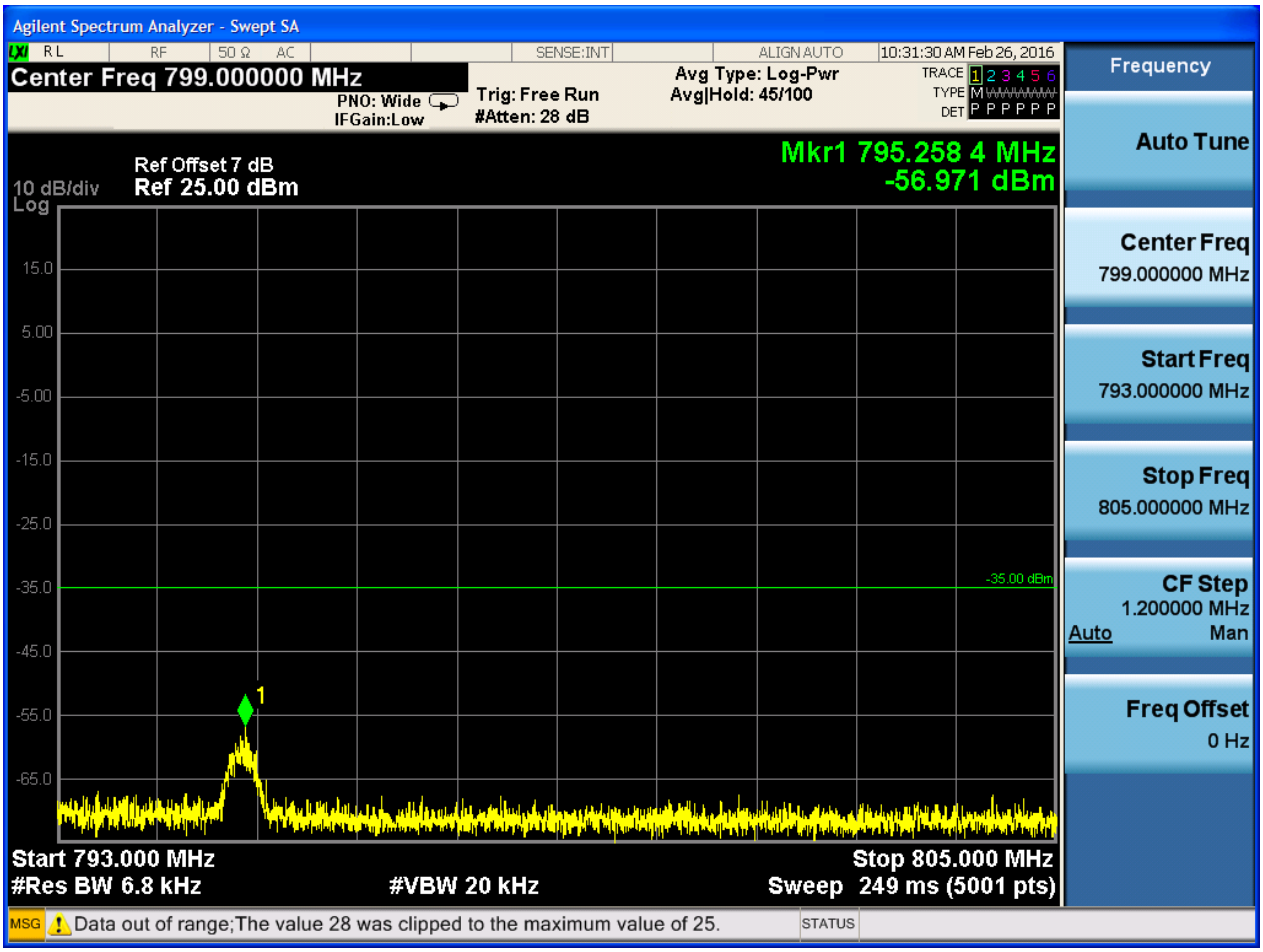

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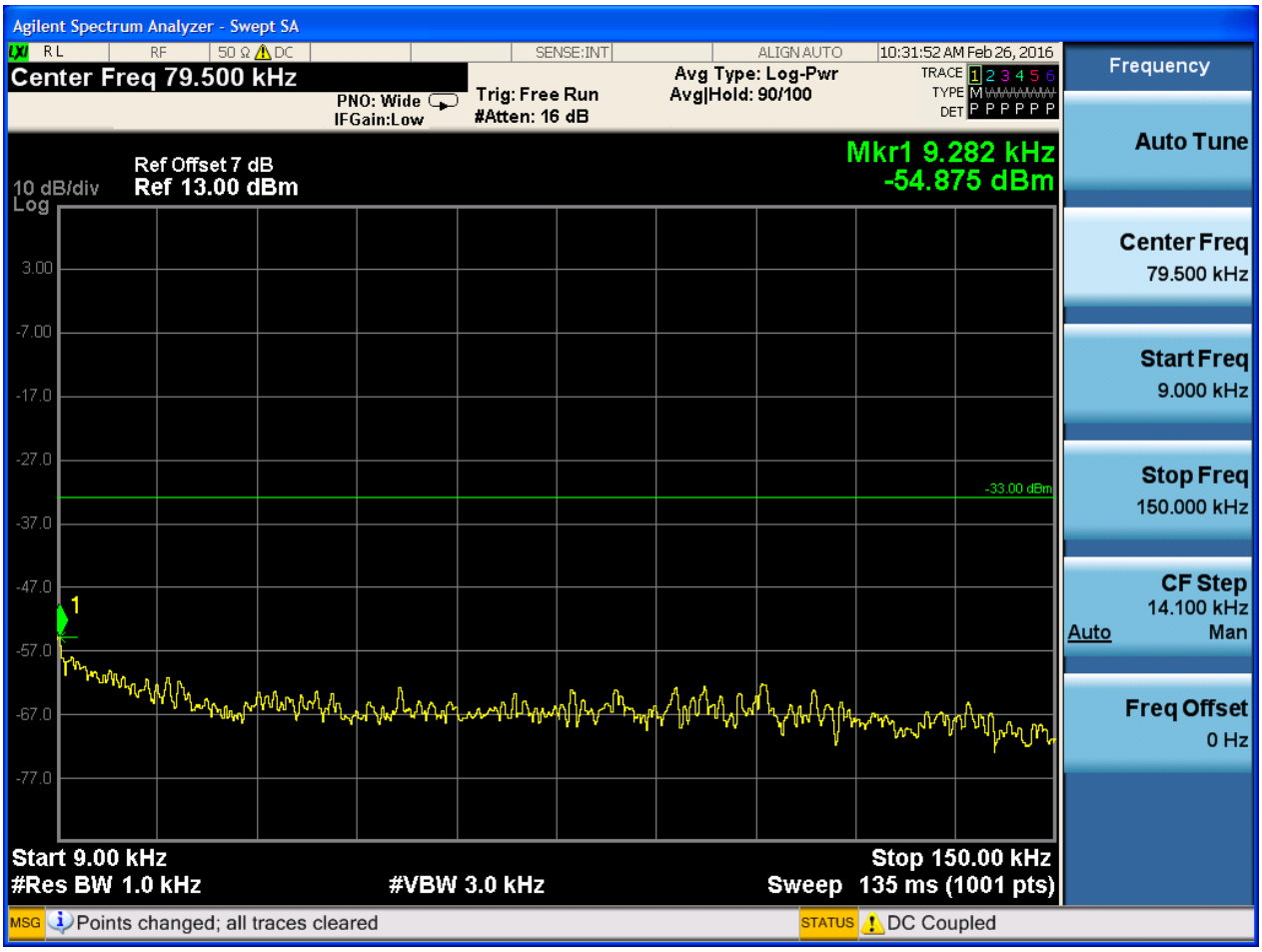
6.1.1.1.2.2 Test Channel = MCH

6.1.1.1.2.2.1 Test RB = RB1#0



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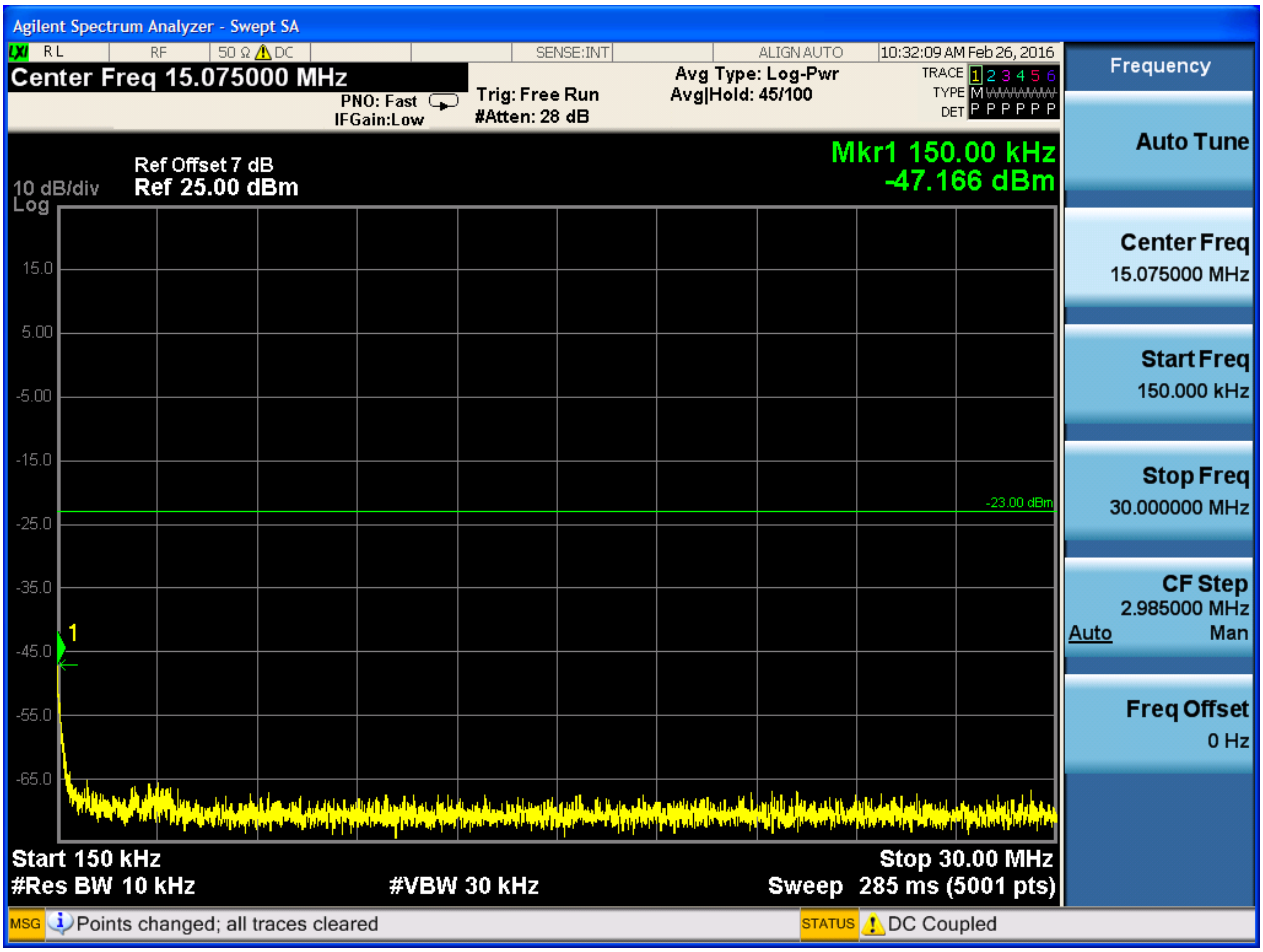

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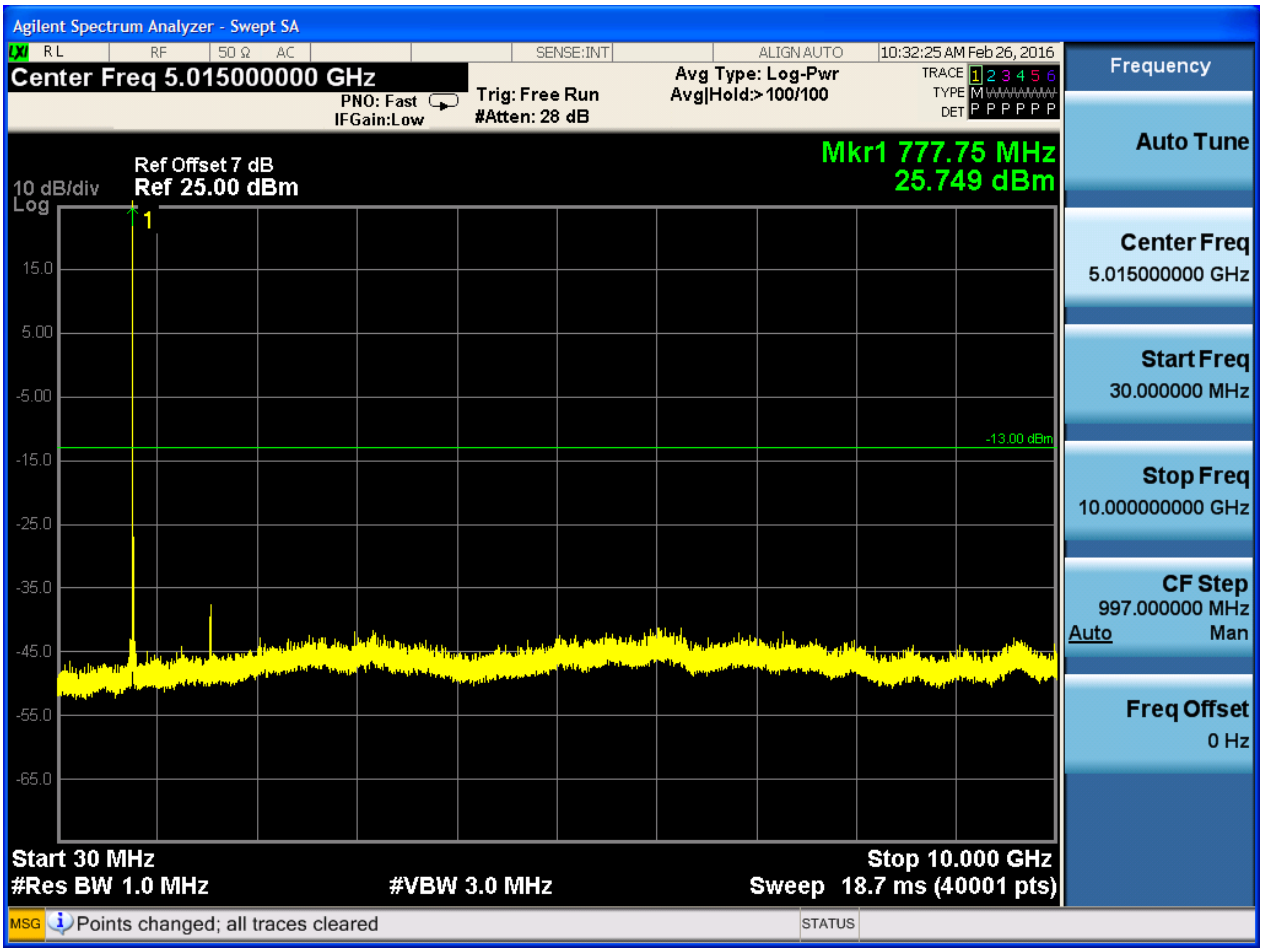

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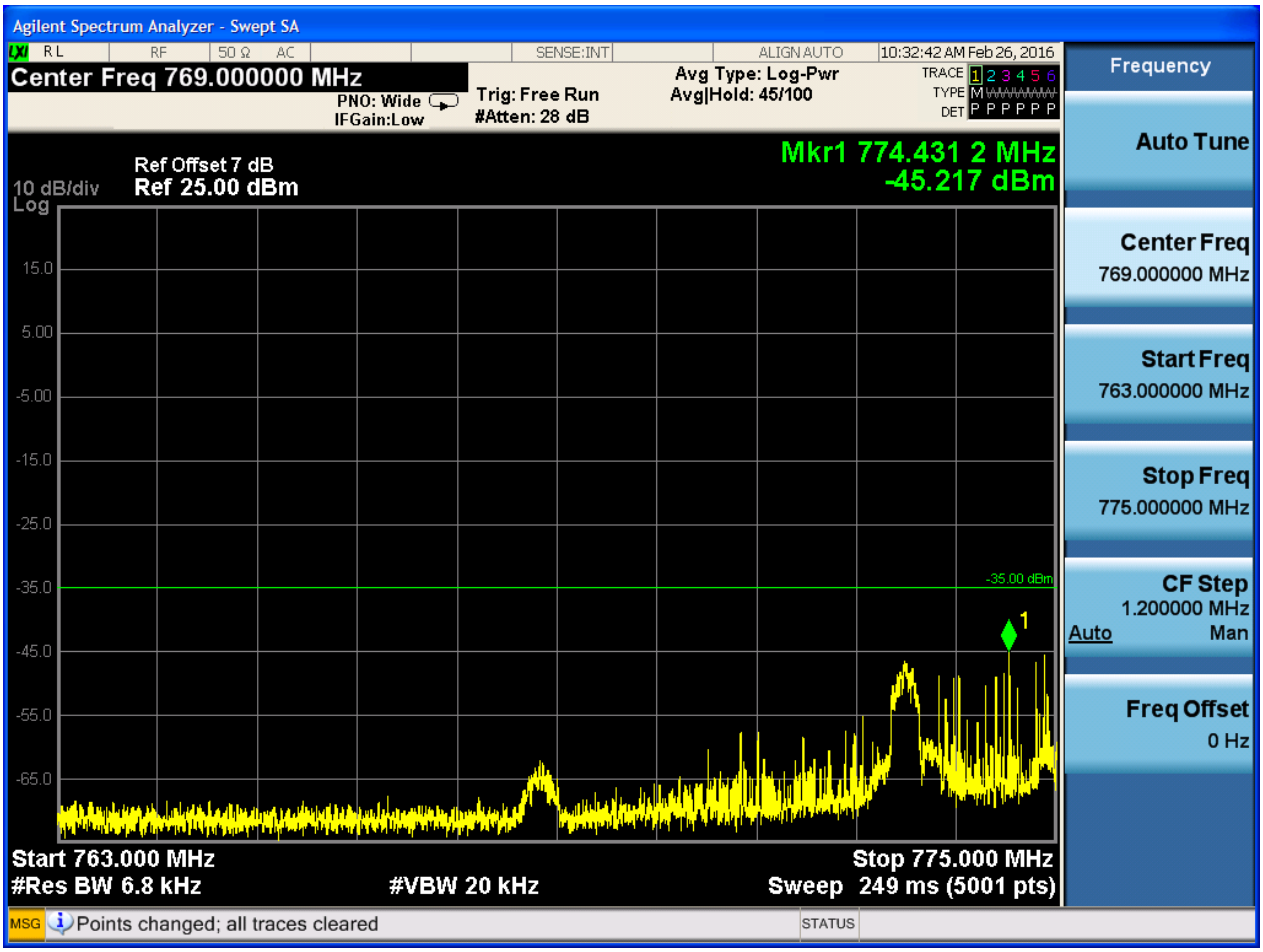

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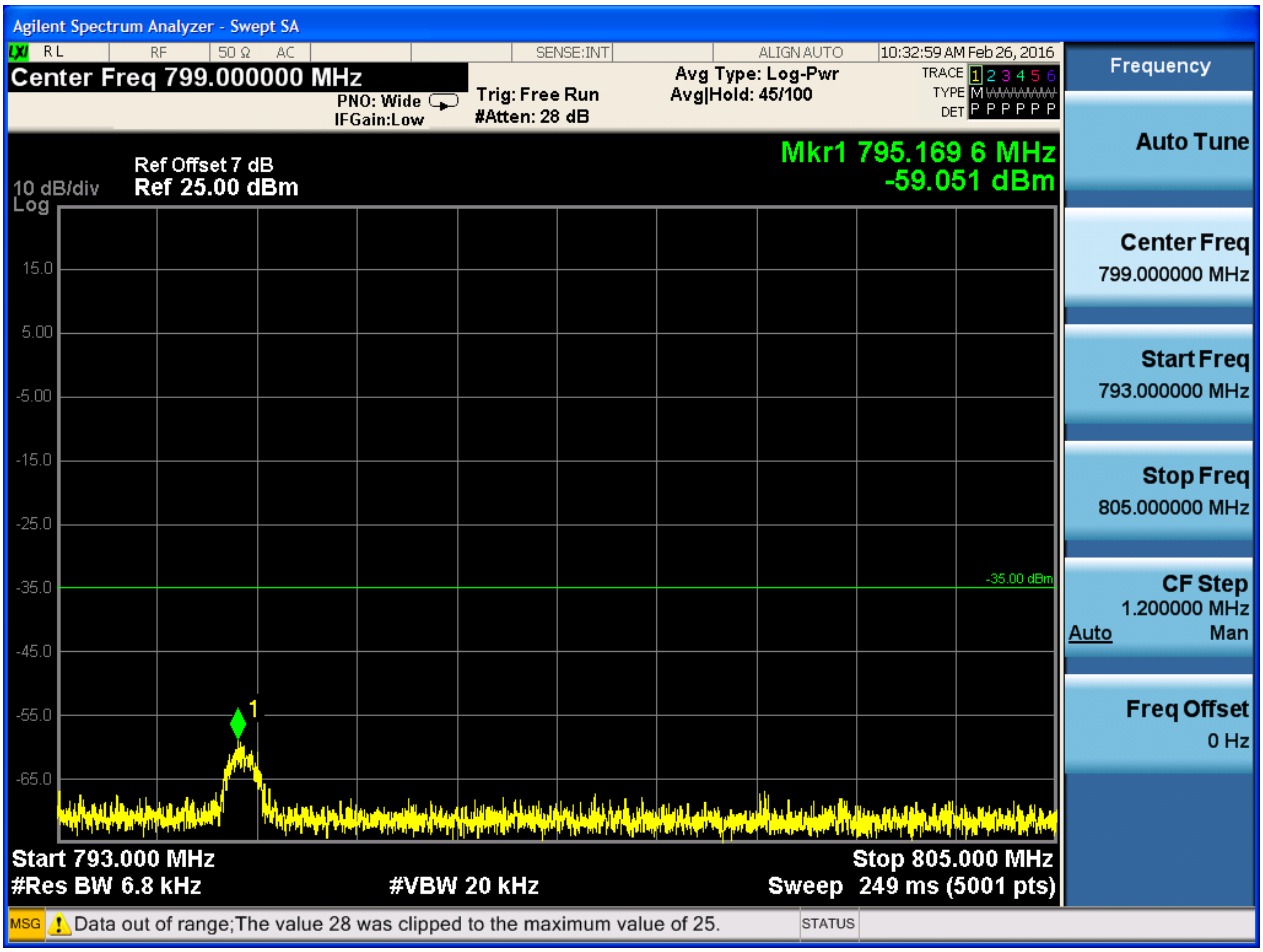

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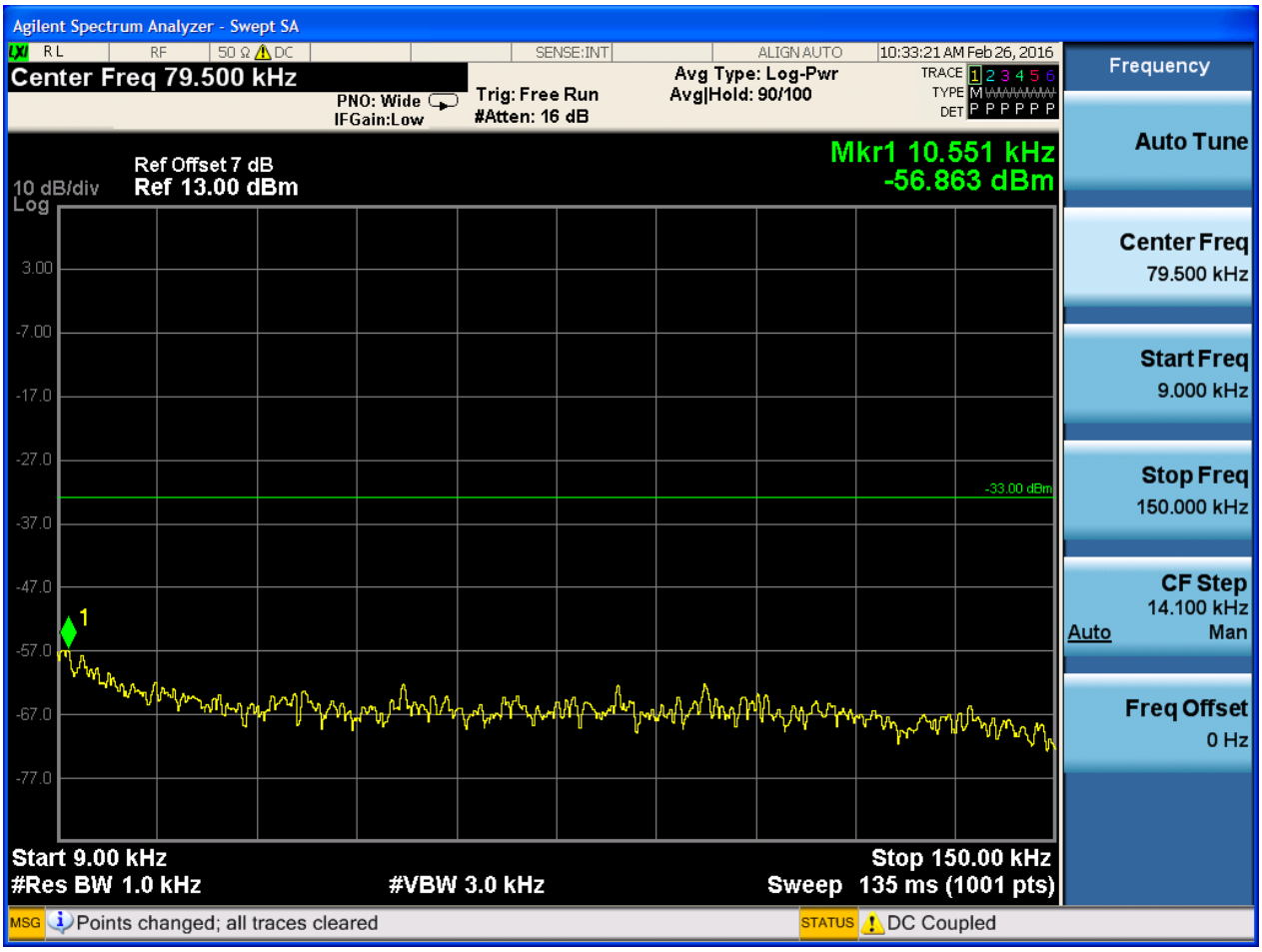
6.1.1.1.2.3 Test Channel = HCH

6.1.1.1.2.3.1 Test RB = RB1#0



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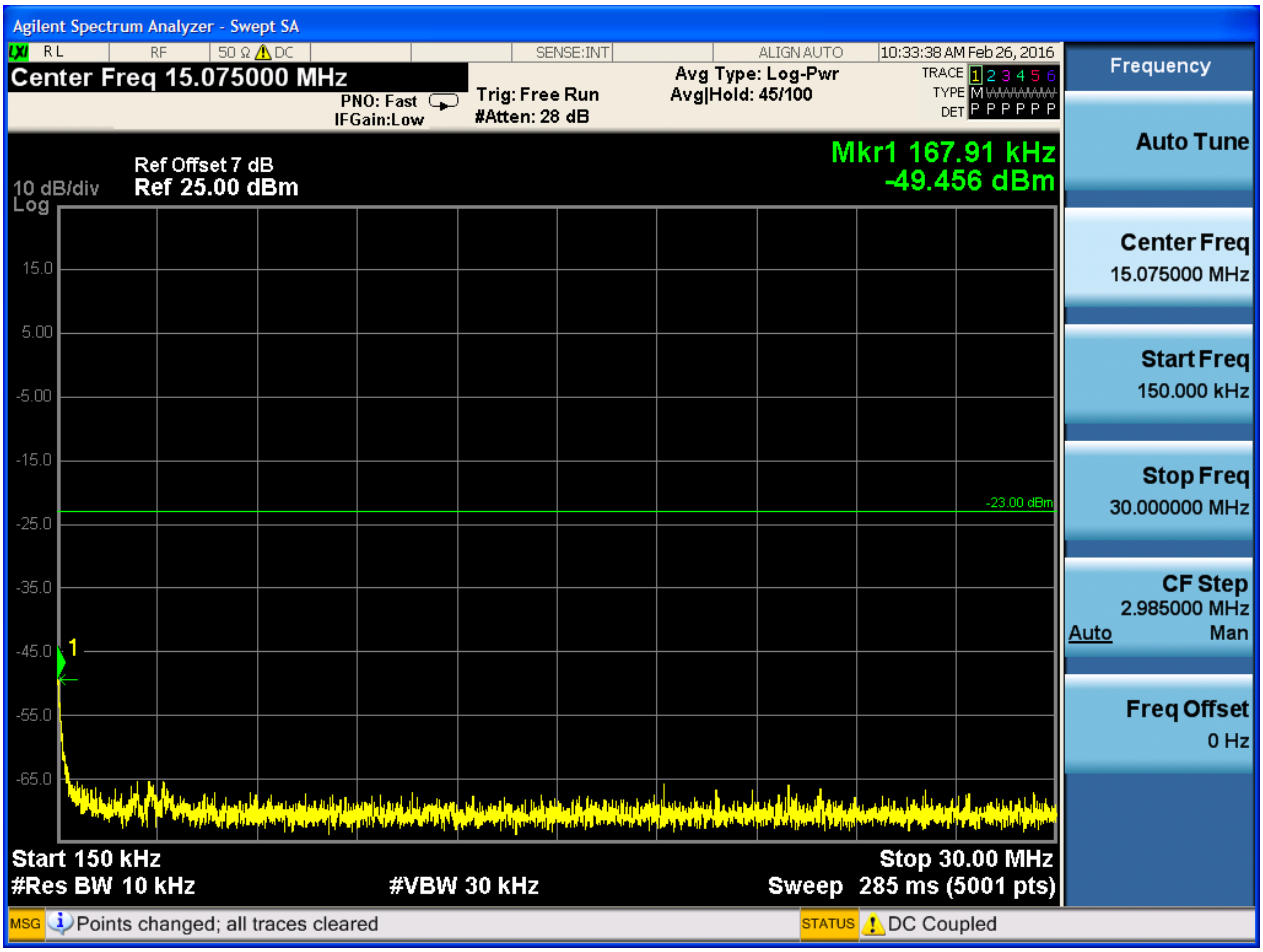

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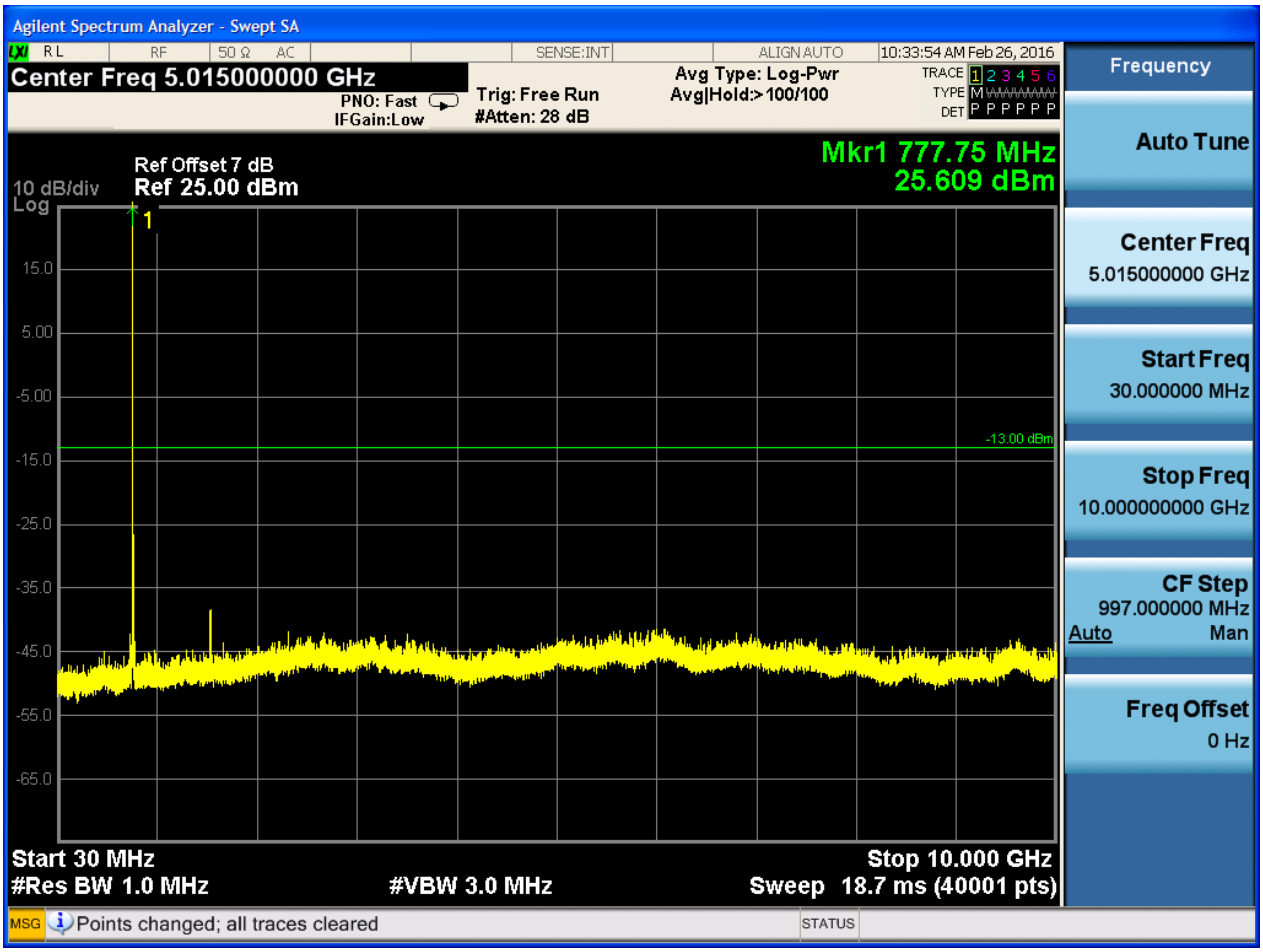

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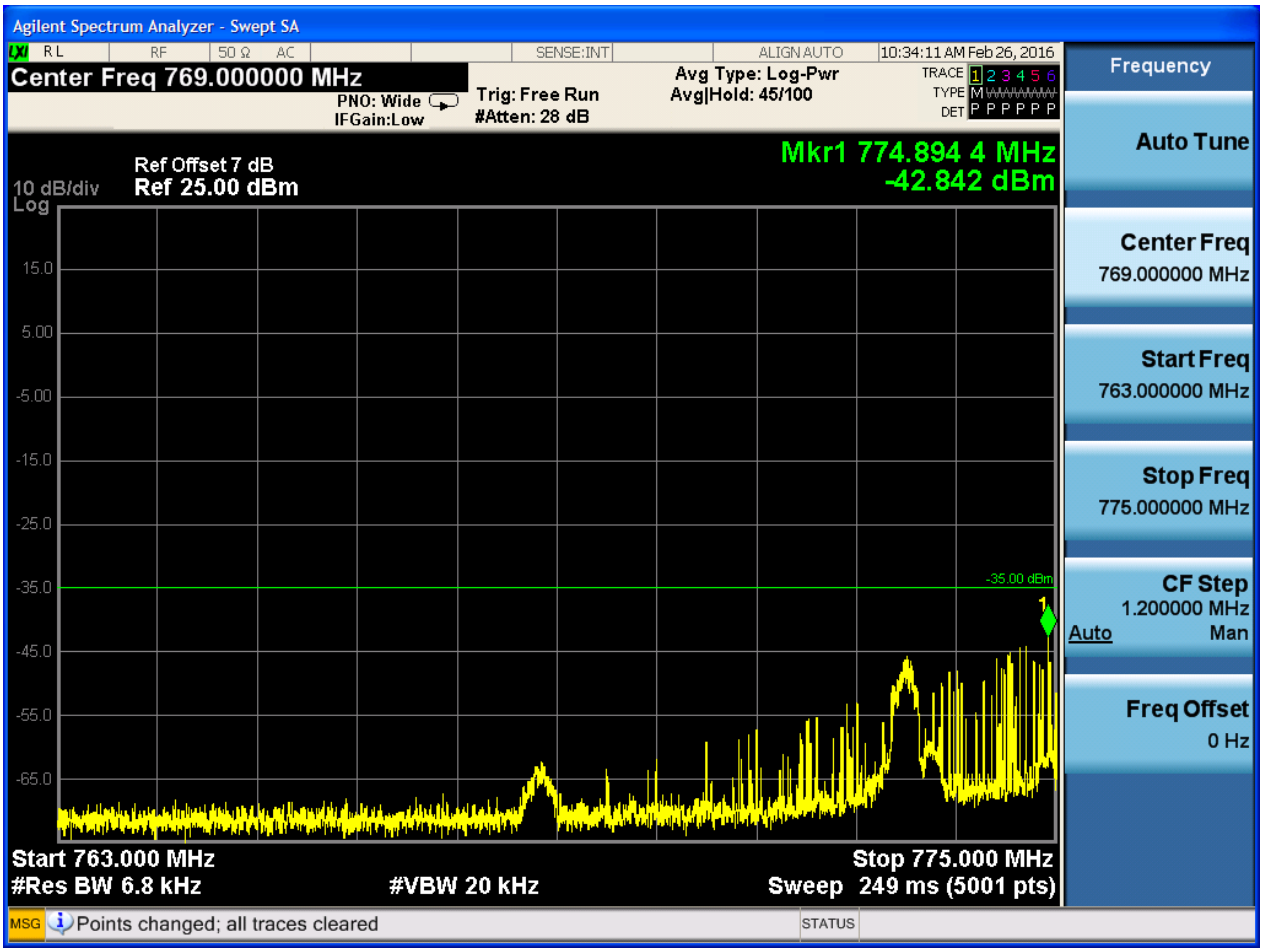

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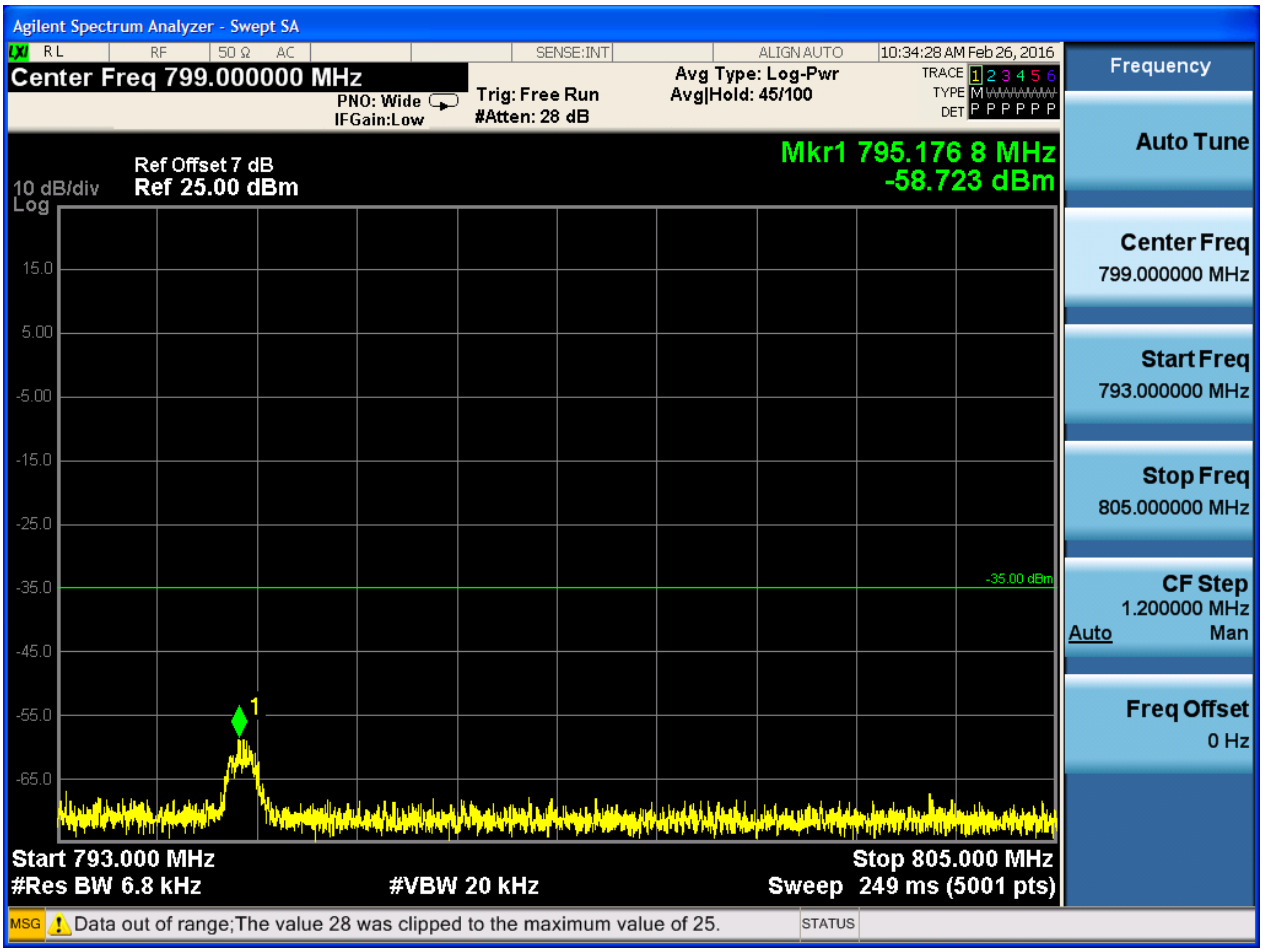

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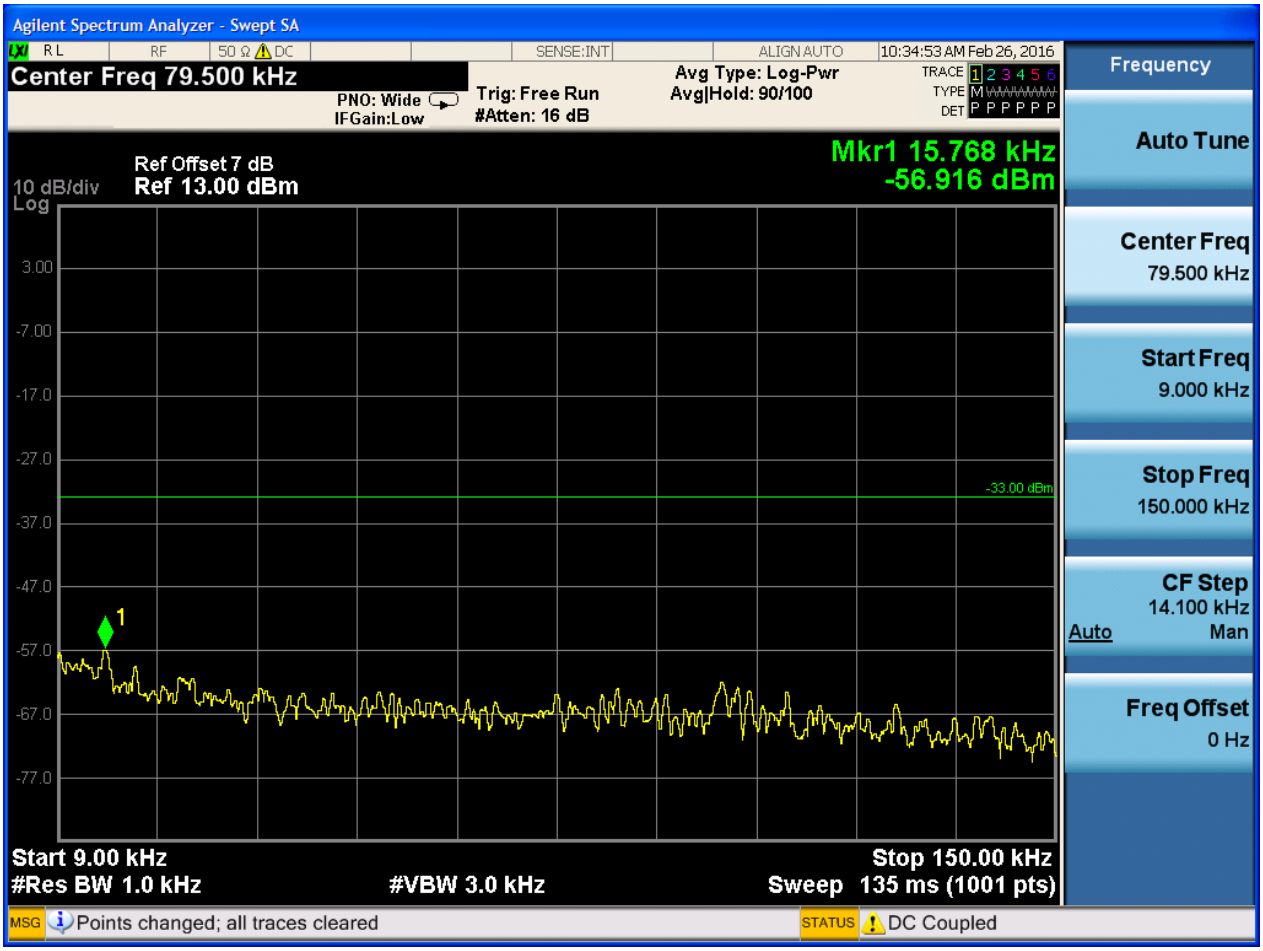
6.1.1.2 Test Mode = LTE/TM2

6.1.1.2.1 Test Bandwidth = 5

6.1.1.2.1.1 Test Channel = LCH

6.1.1.2.1.1.1 Test RB = RB1#0



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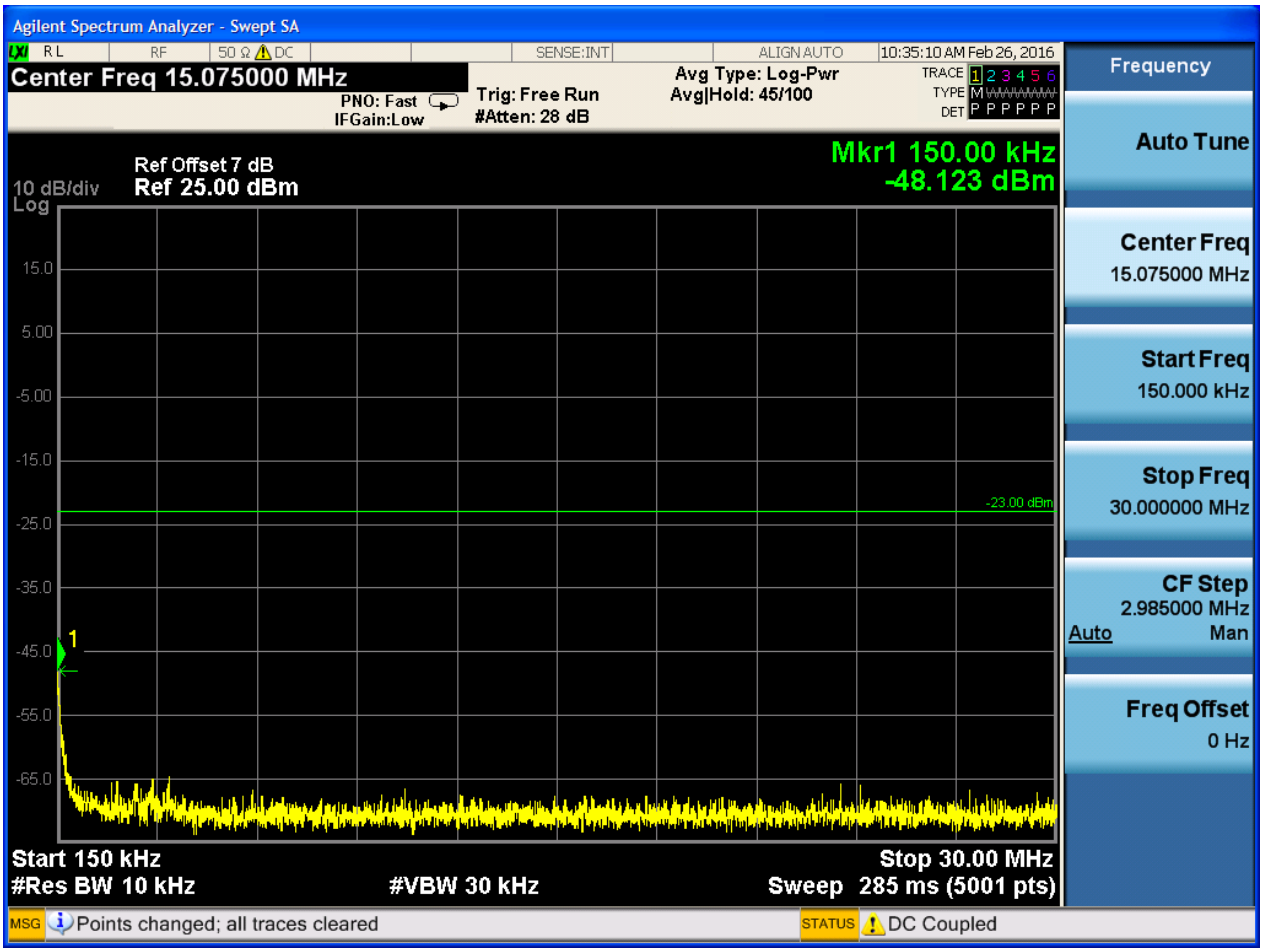

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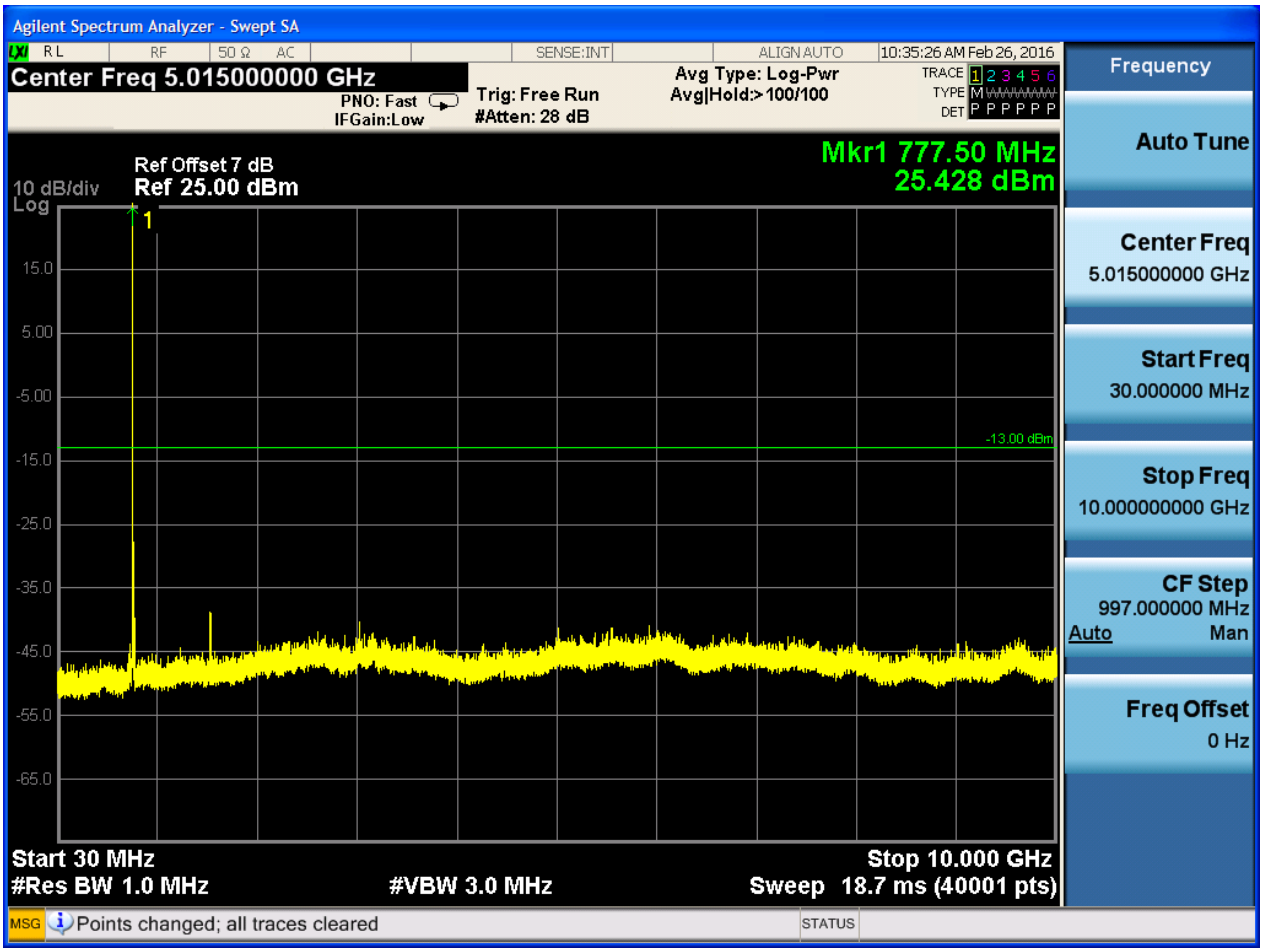

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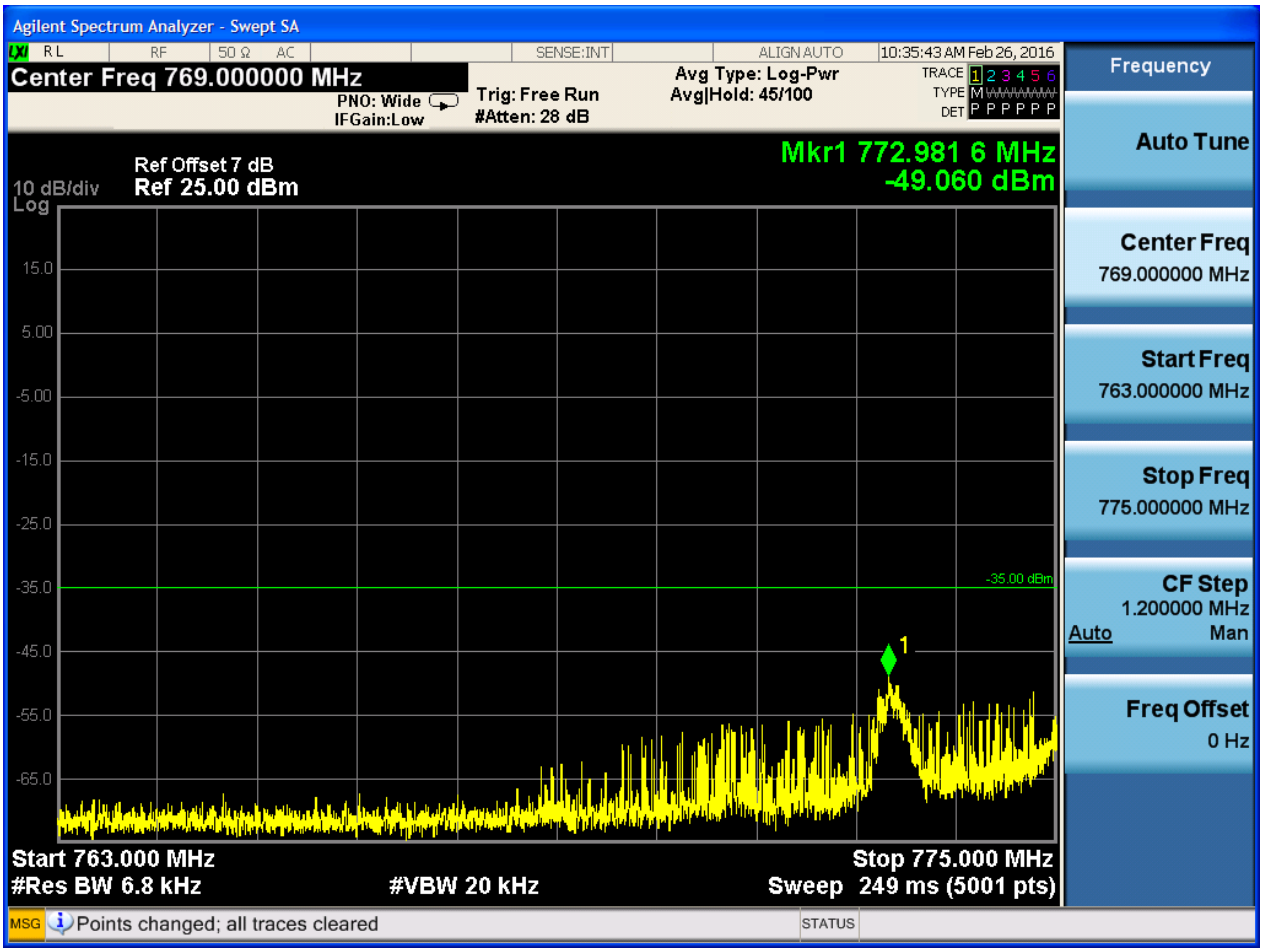

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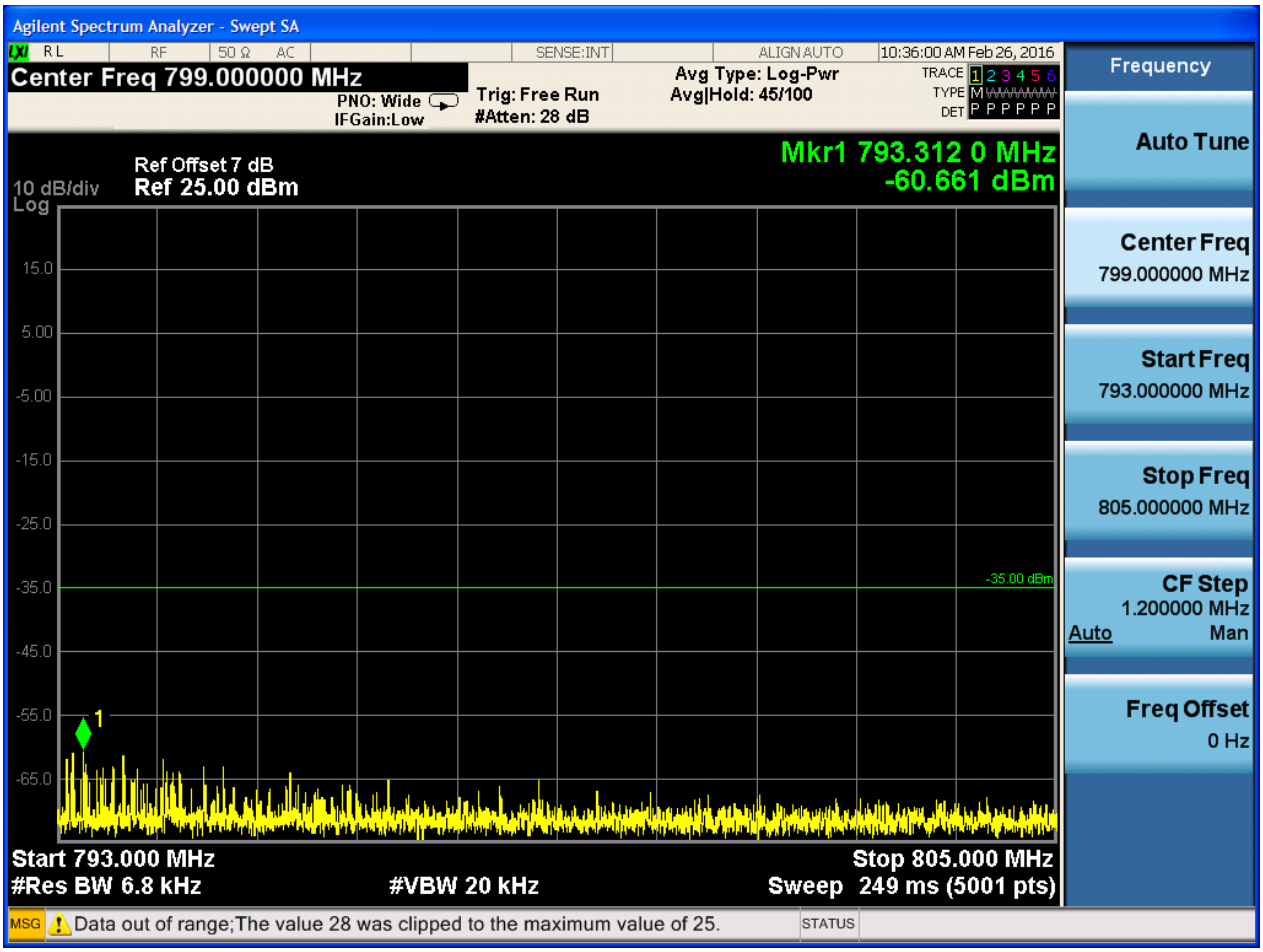

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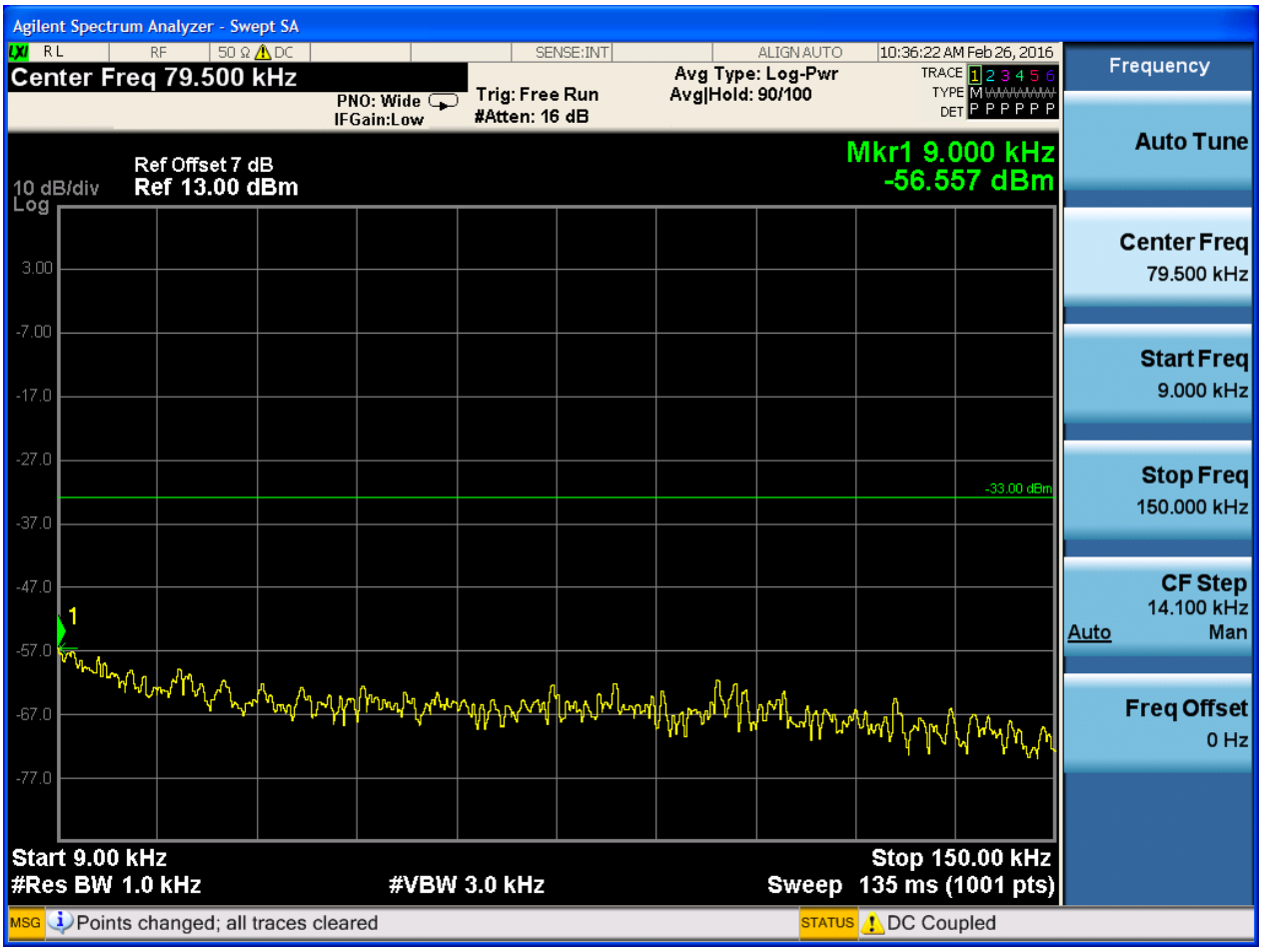
6.1.1.2.1.2 Test Channel = MCH

6.1.1.2.1.2.1 Test RB = RB1#0



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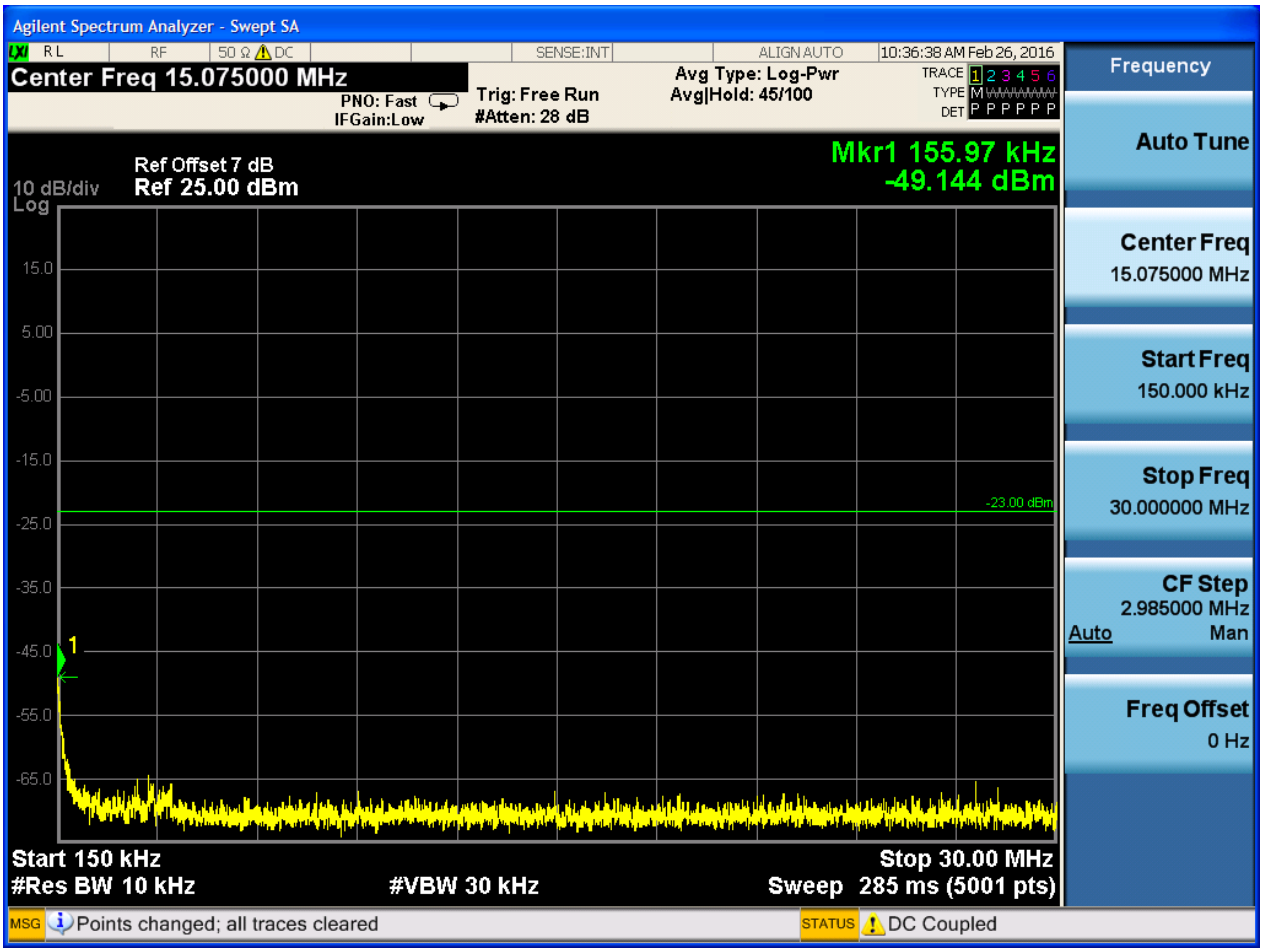

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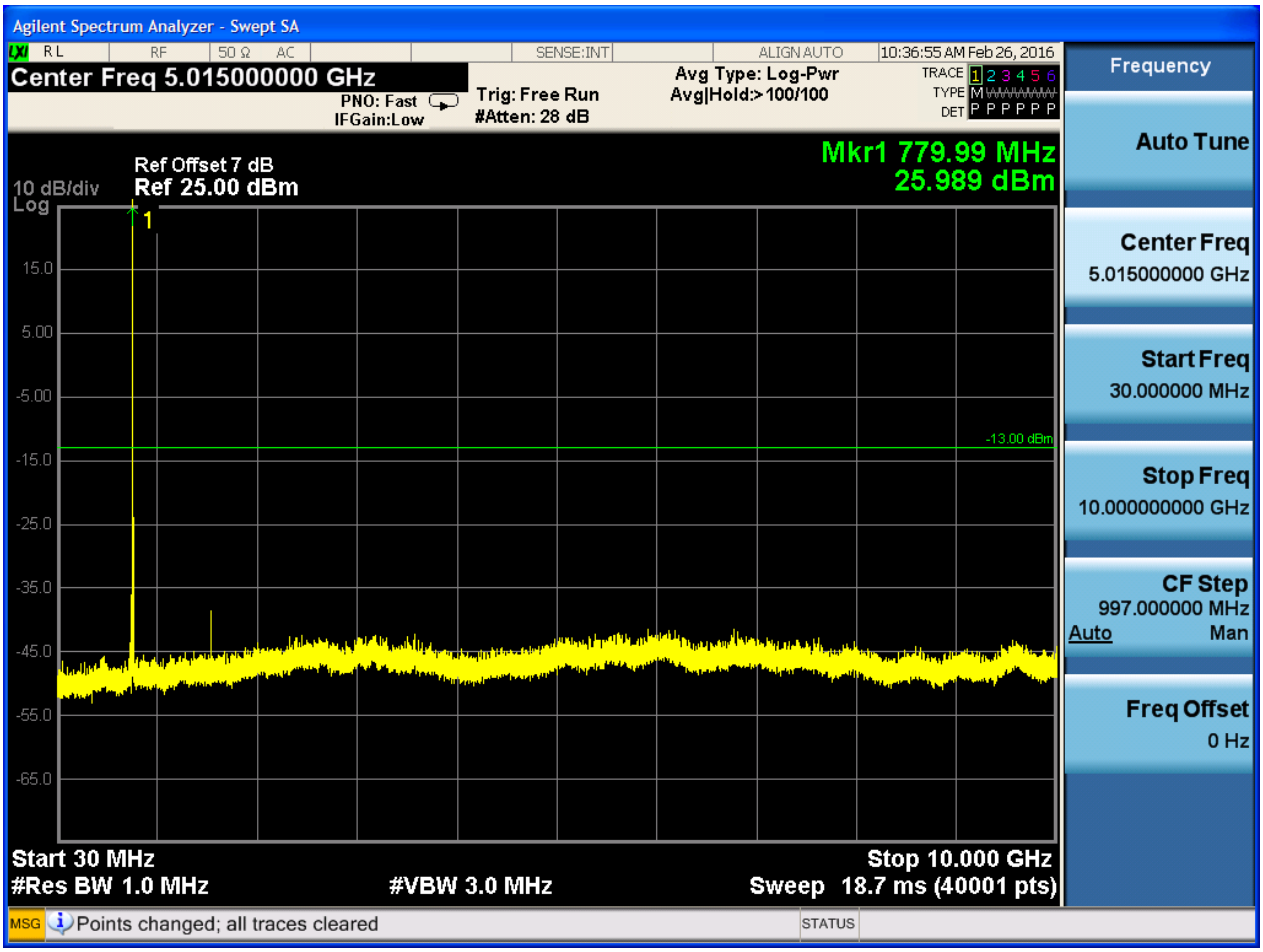

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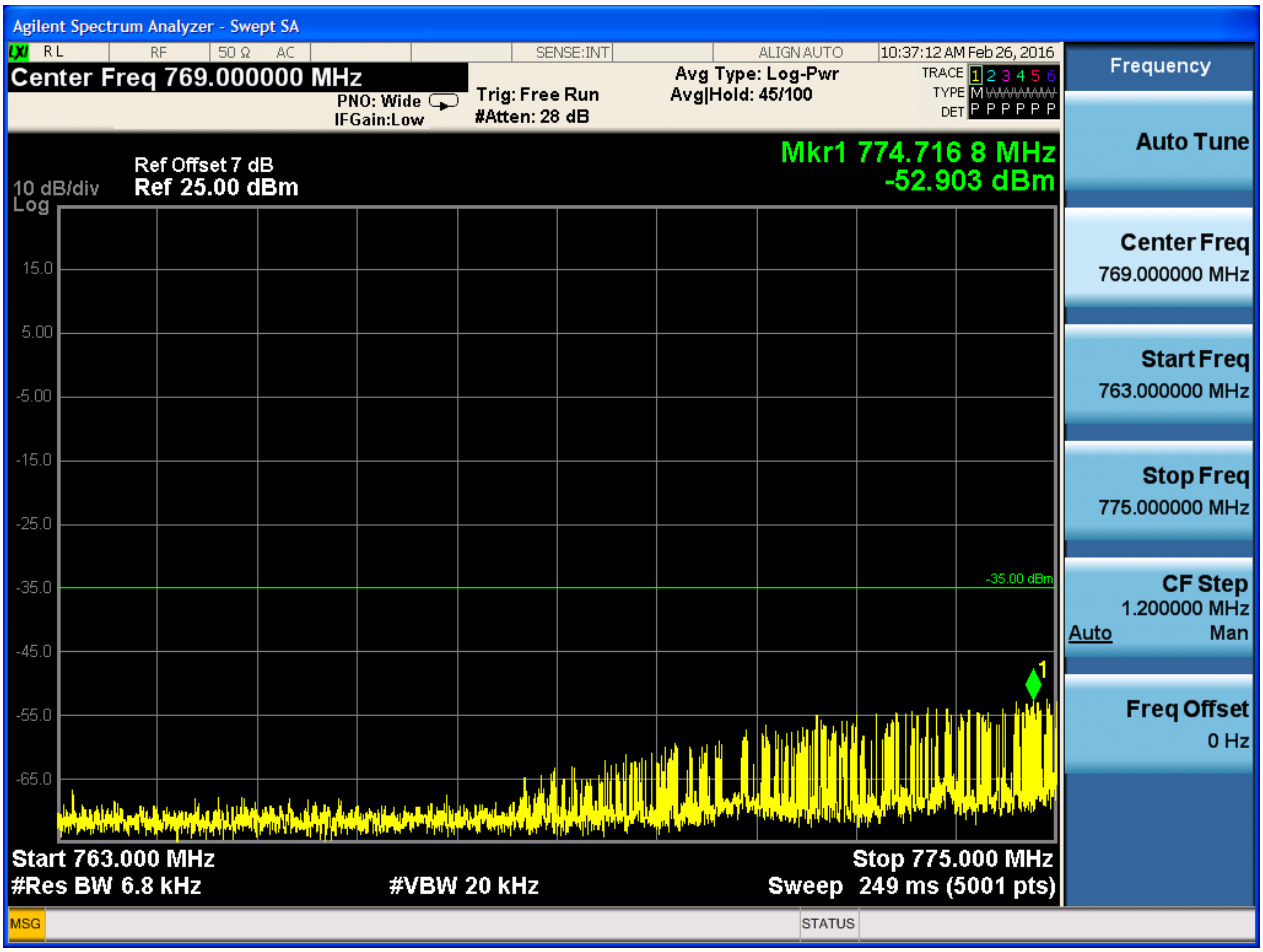

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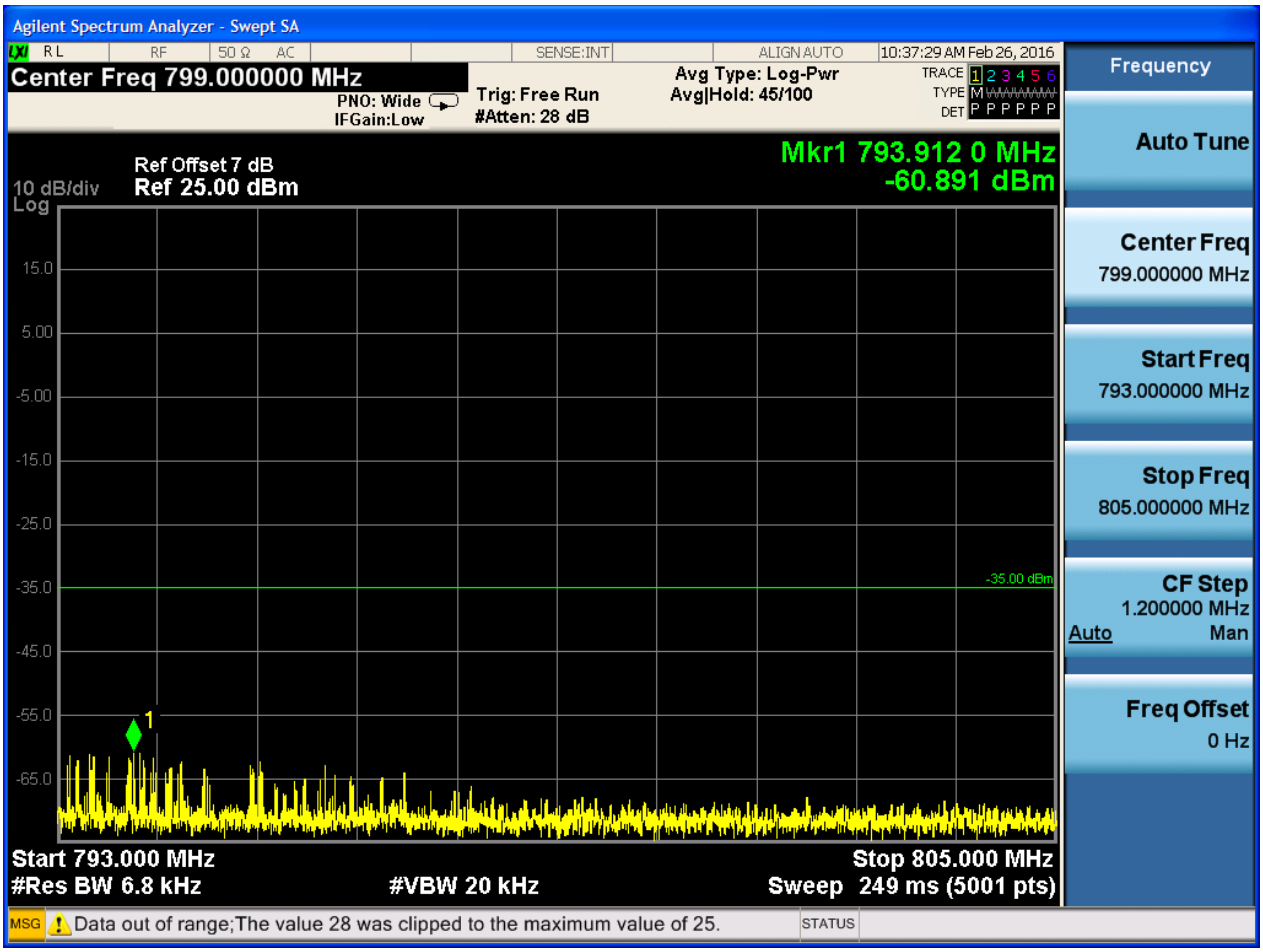

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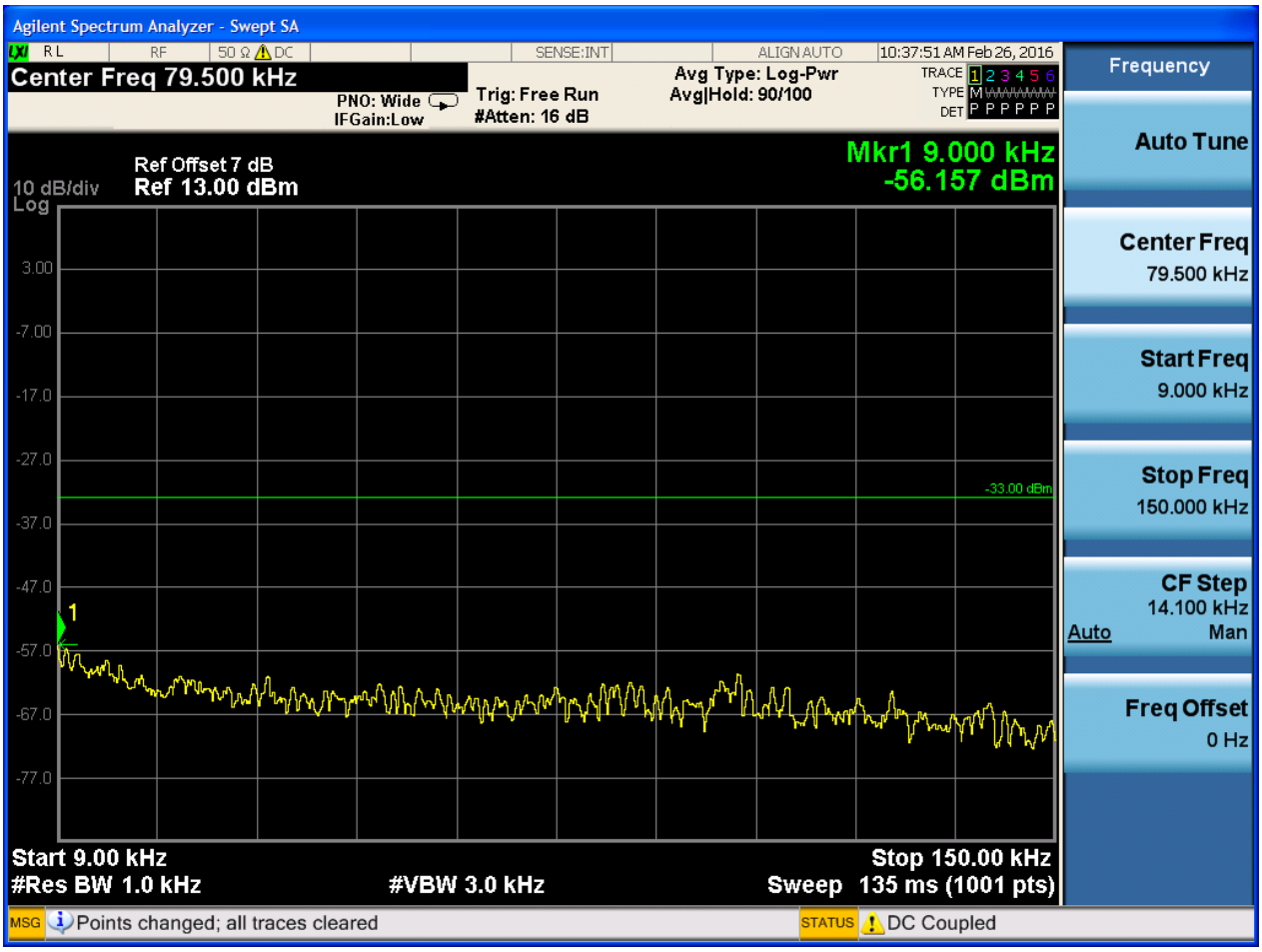
6.1.1.2.1.3 Test Channel = HCH

6.1.1.2.1.3.1 Test RB = RB1#0



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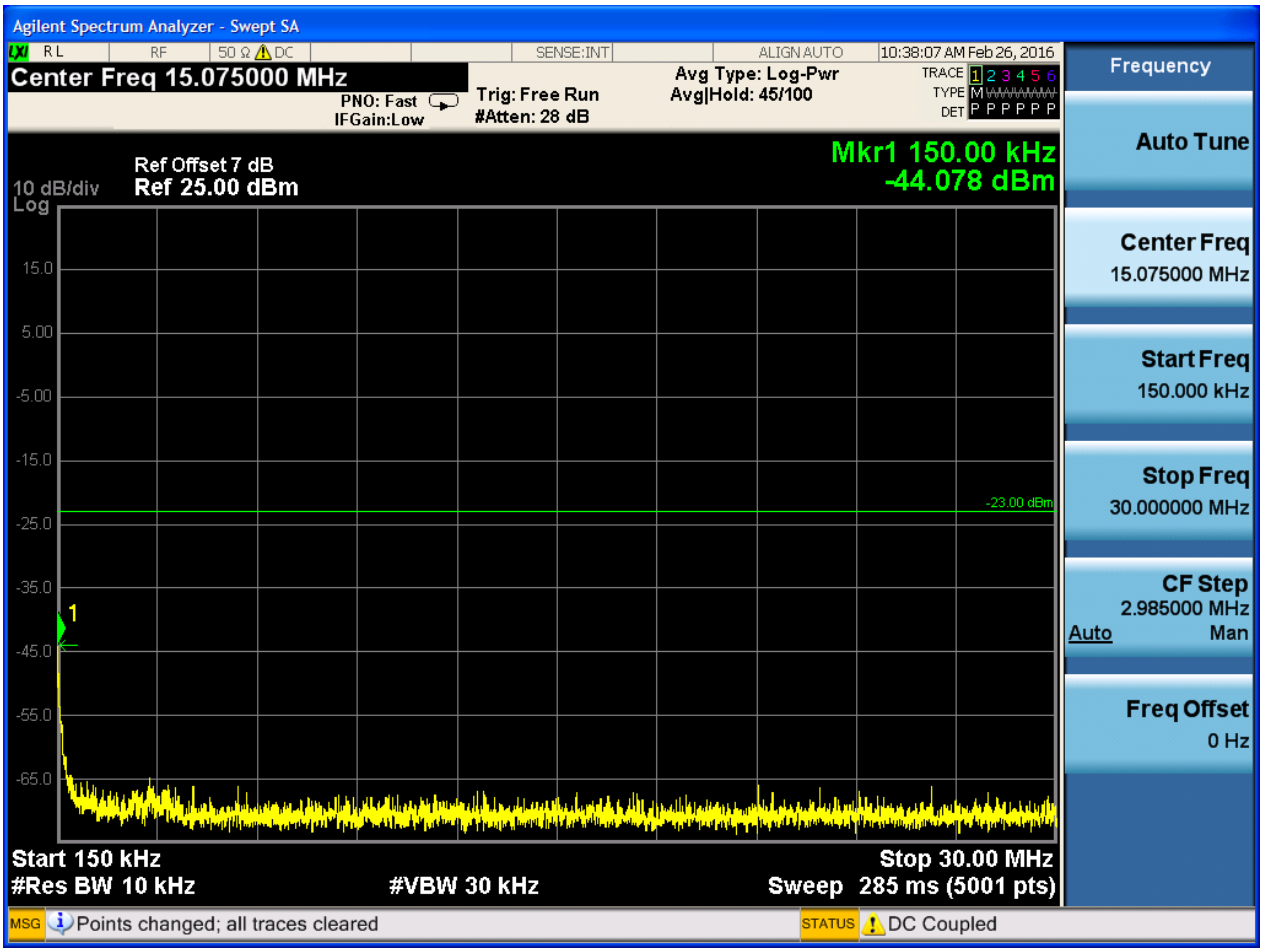

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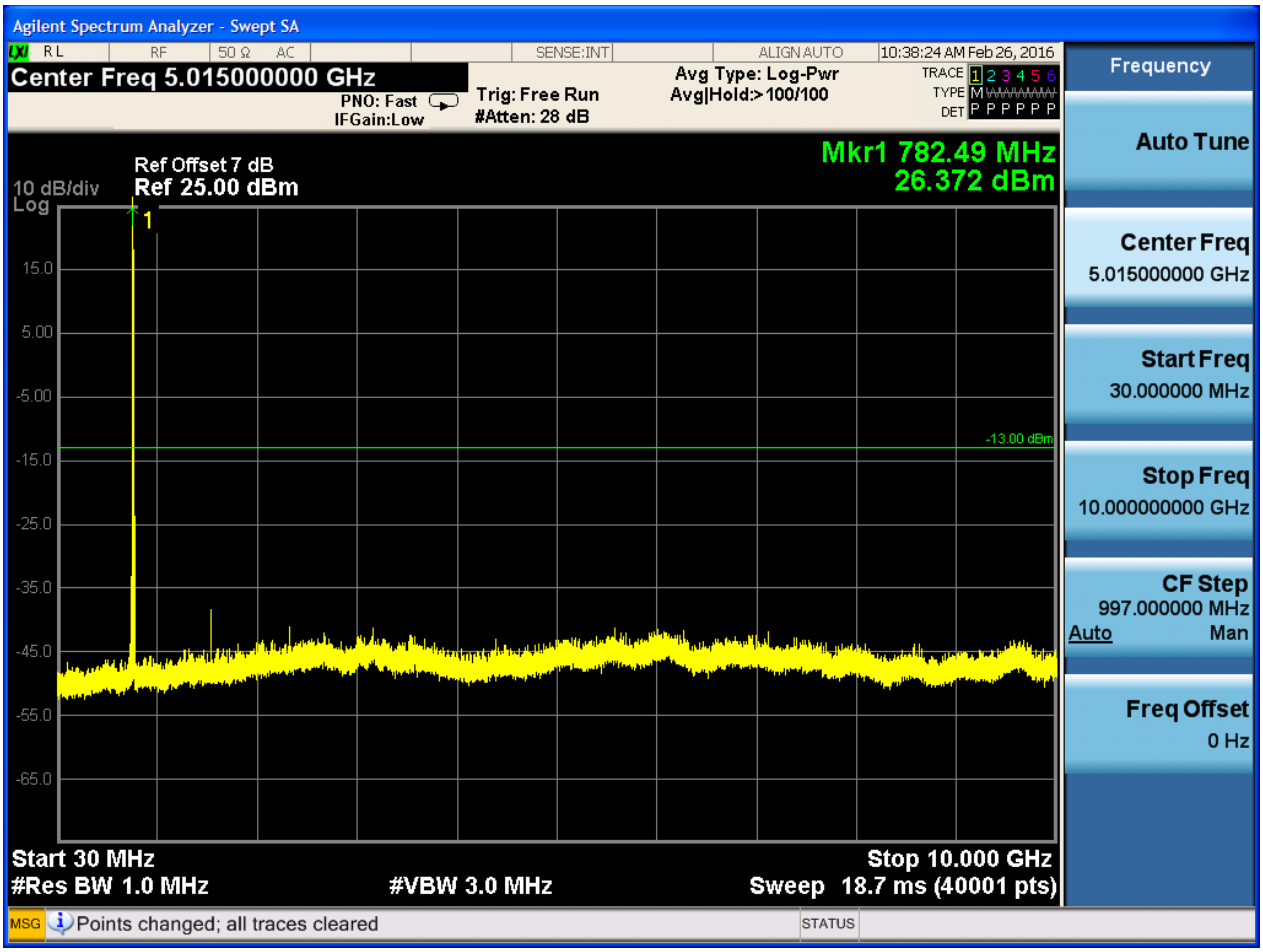

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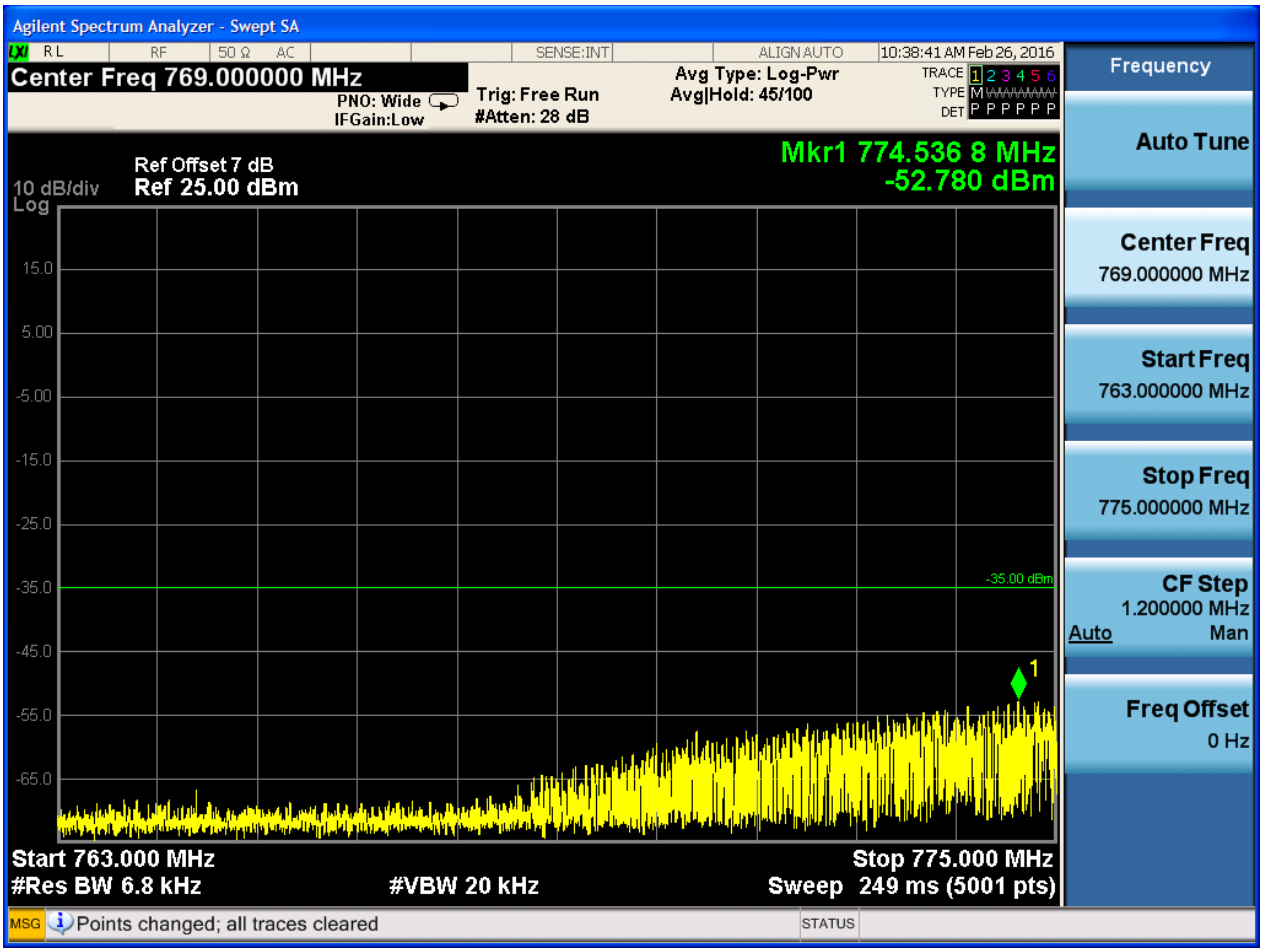

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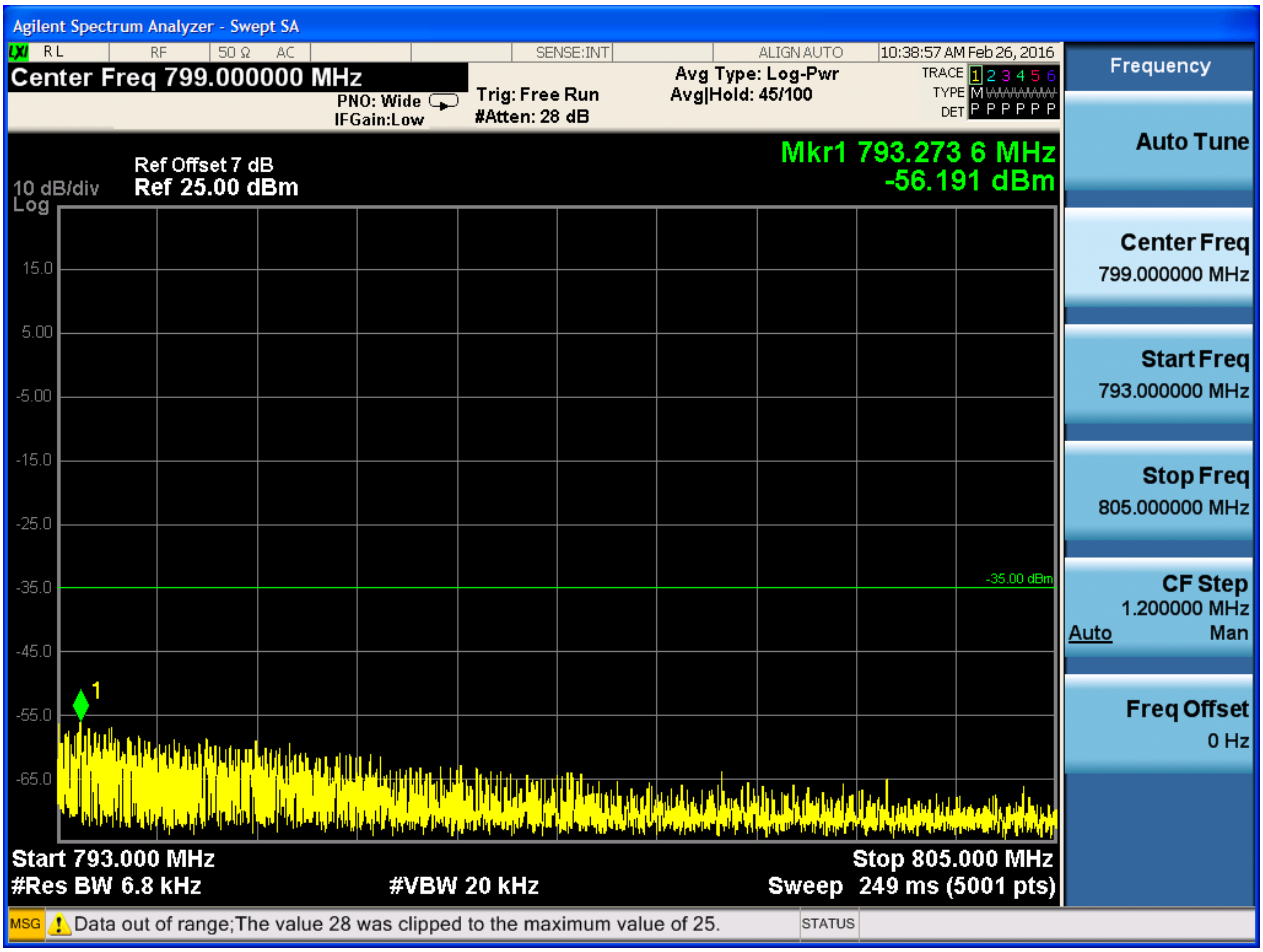

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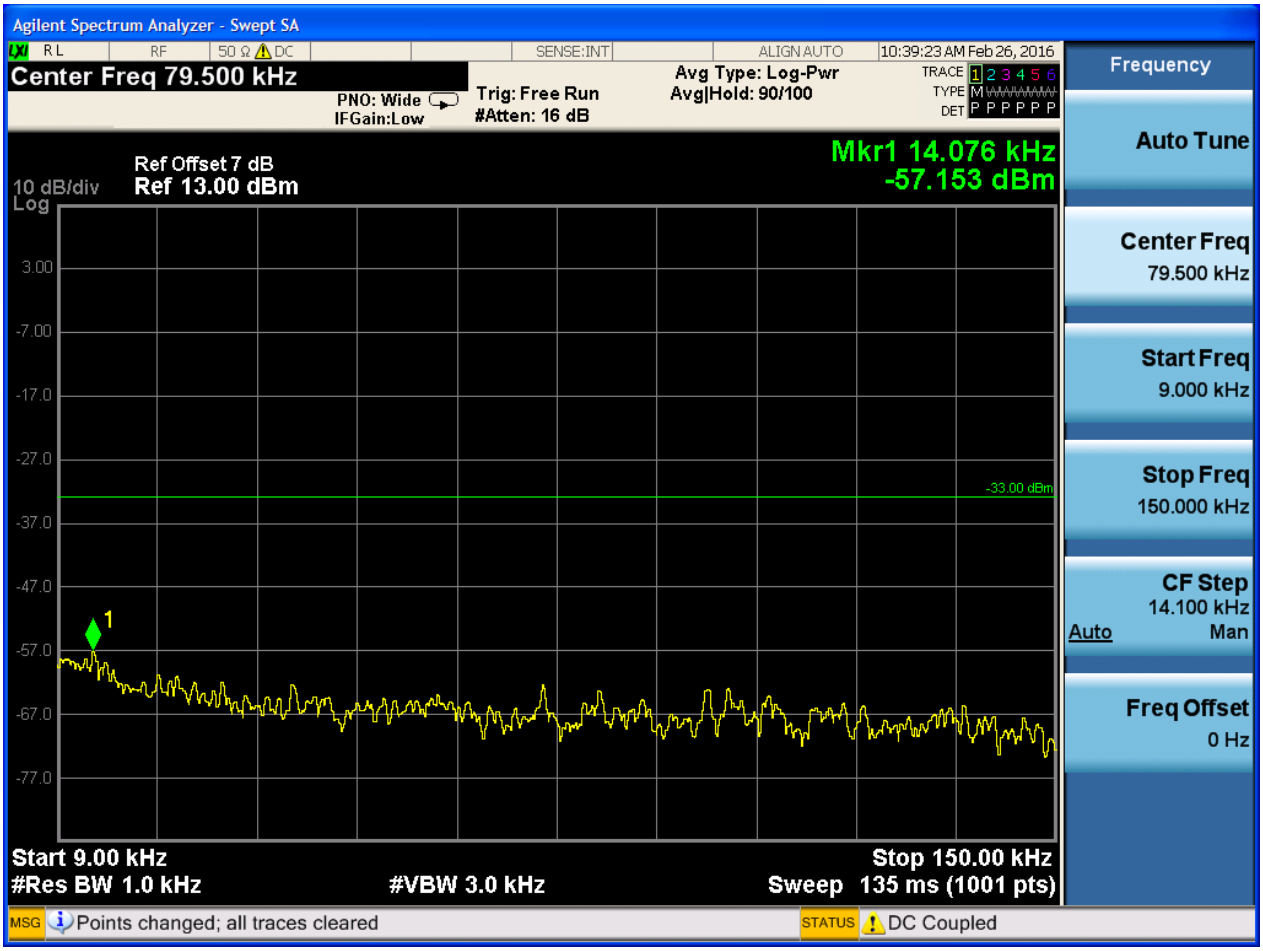
6.1.1.2.2 Test Bandwidth = 10

6.1.1.2.2.1 Test Channel = LCH

6.1.1.2.2.1.1 Test RB = RB1#0



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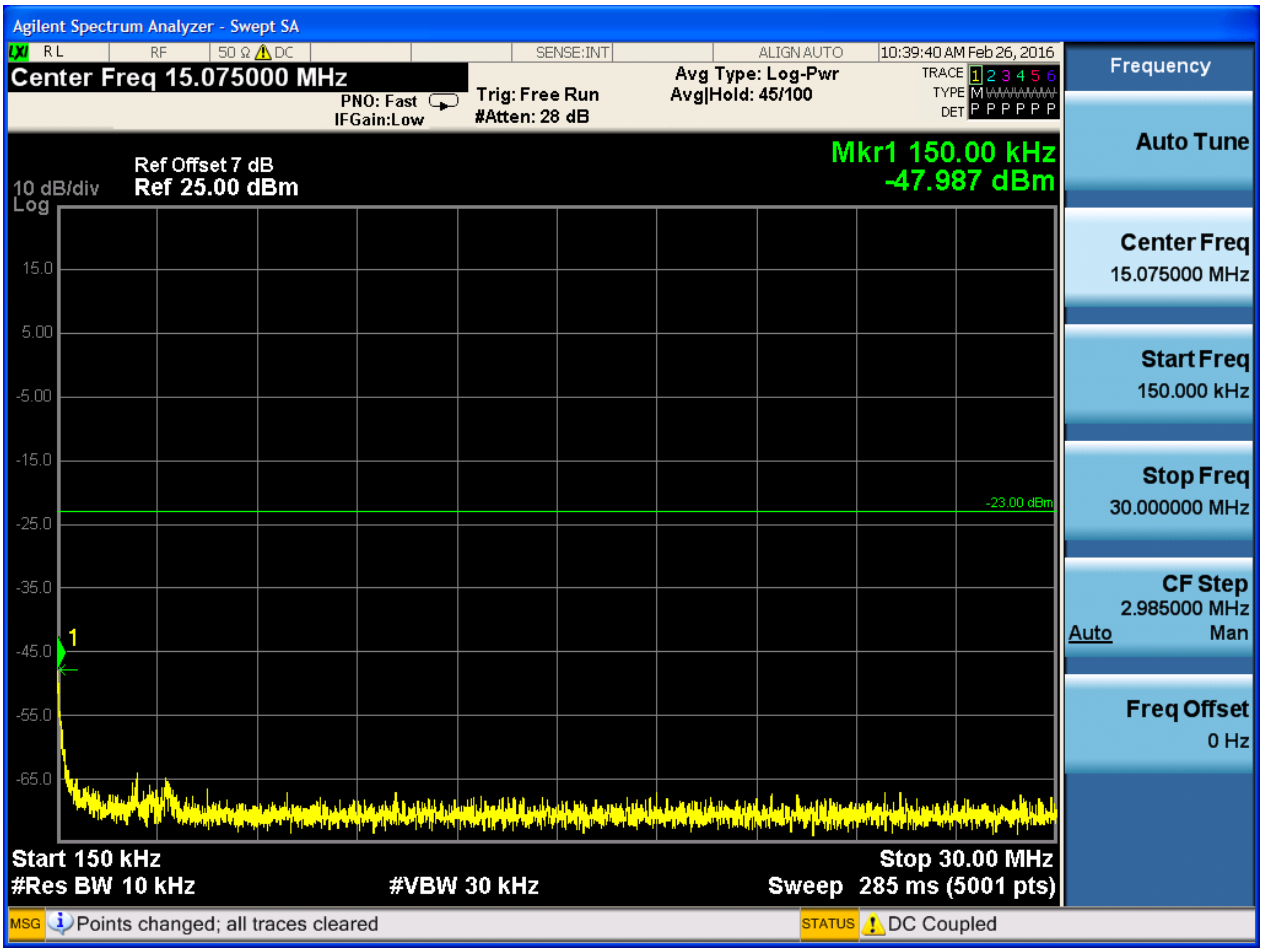

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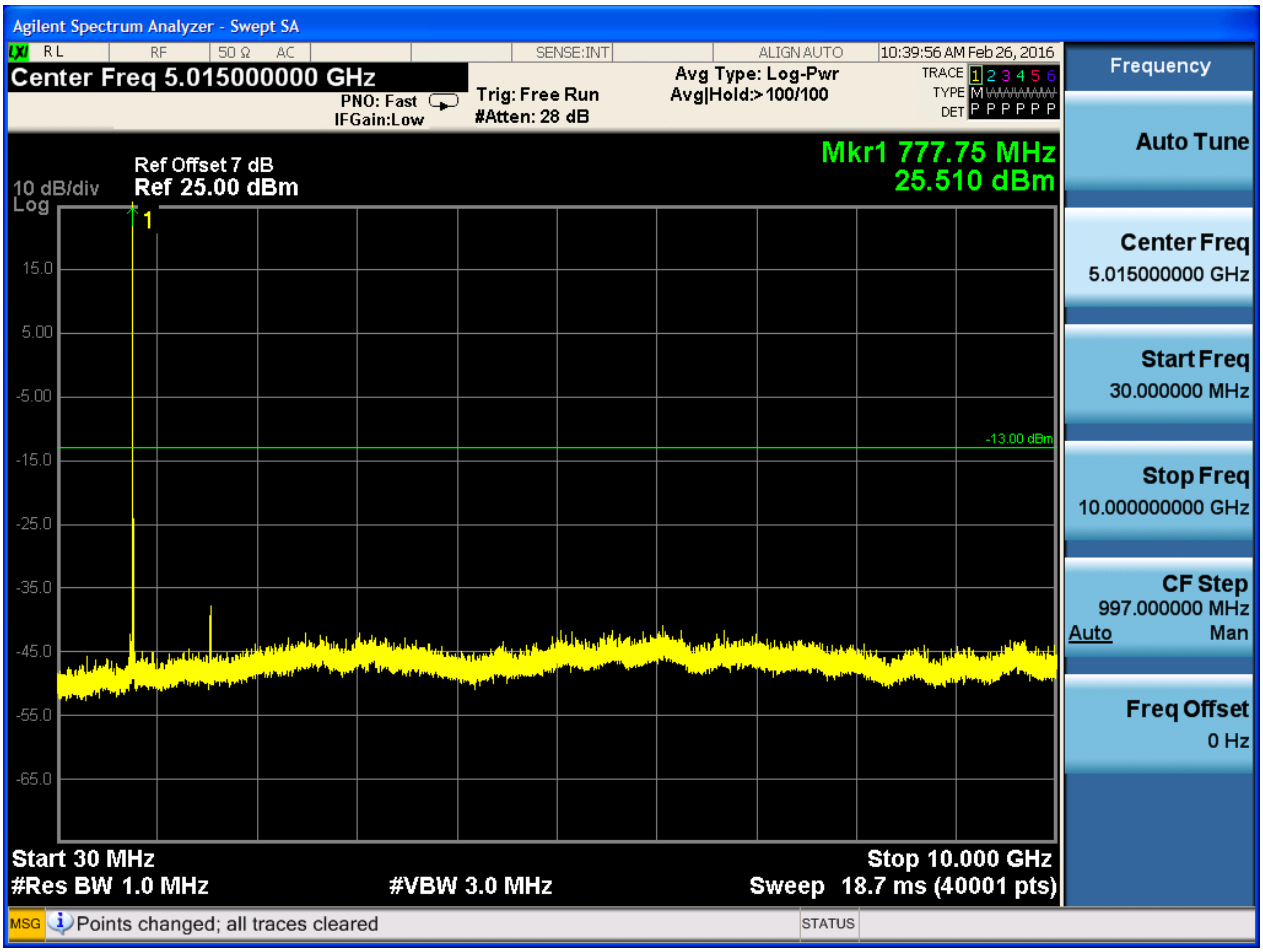

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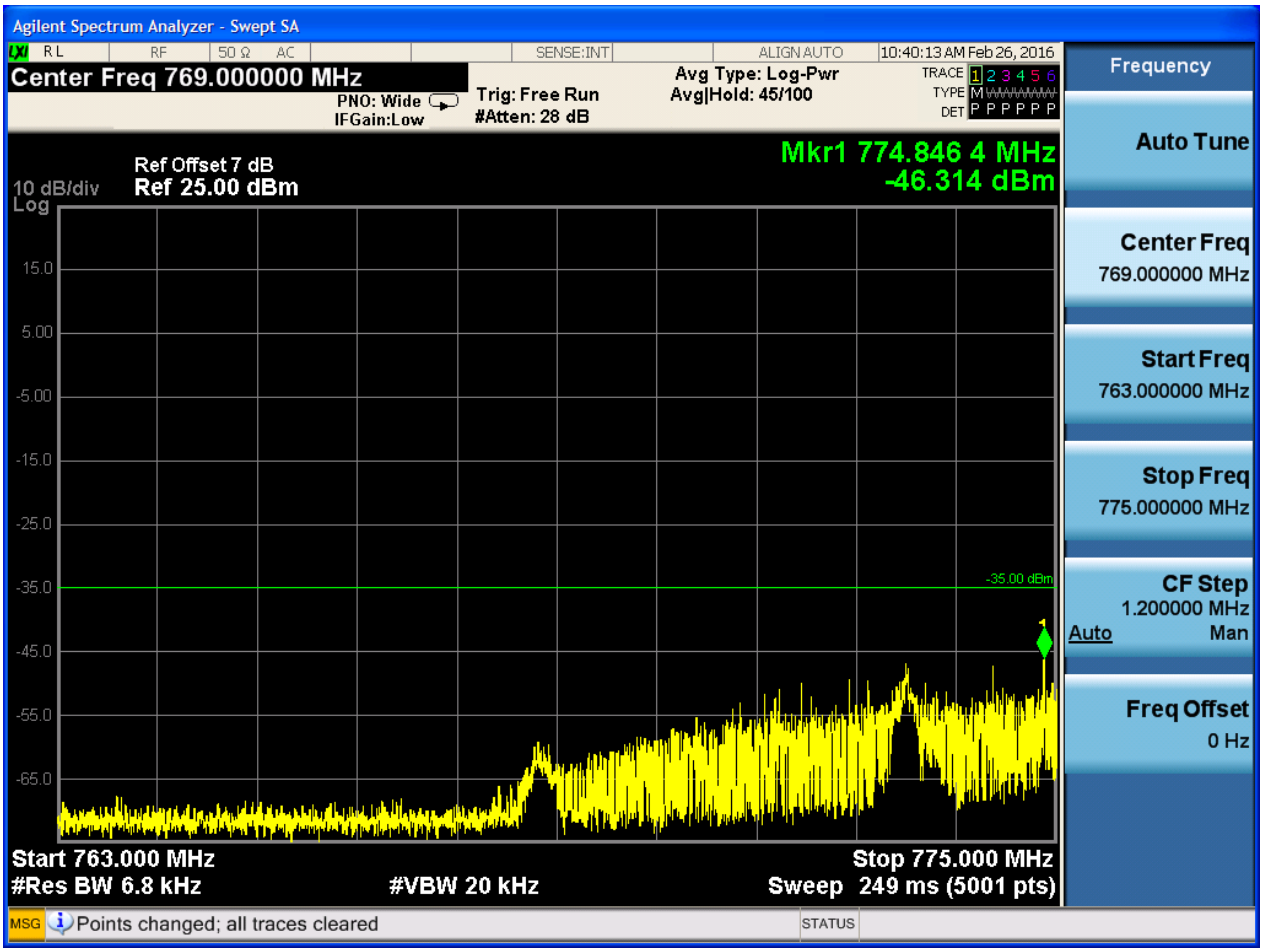

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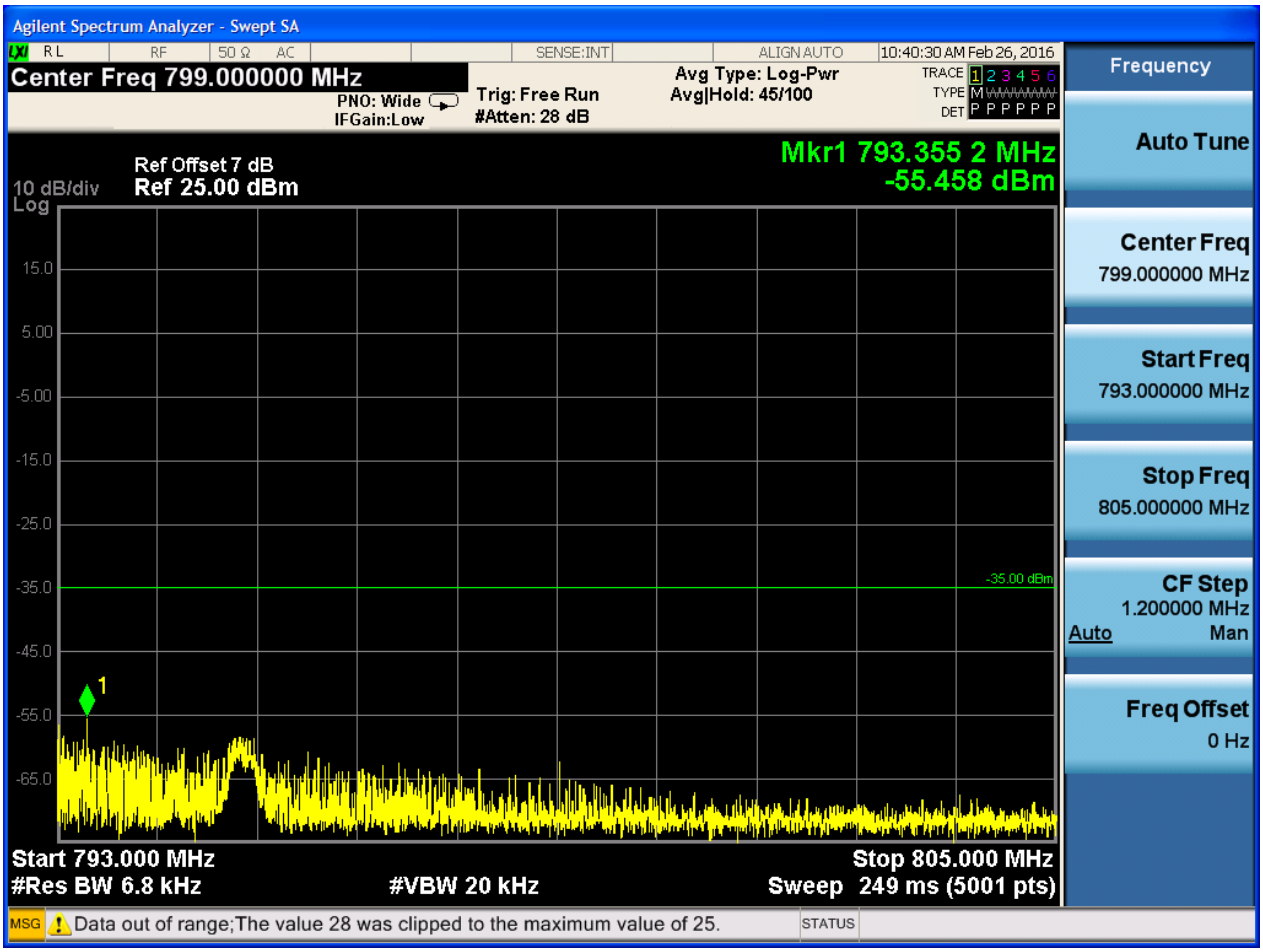

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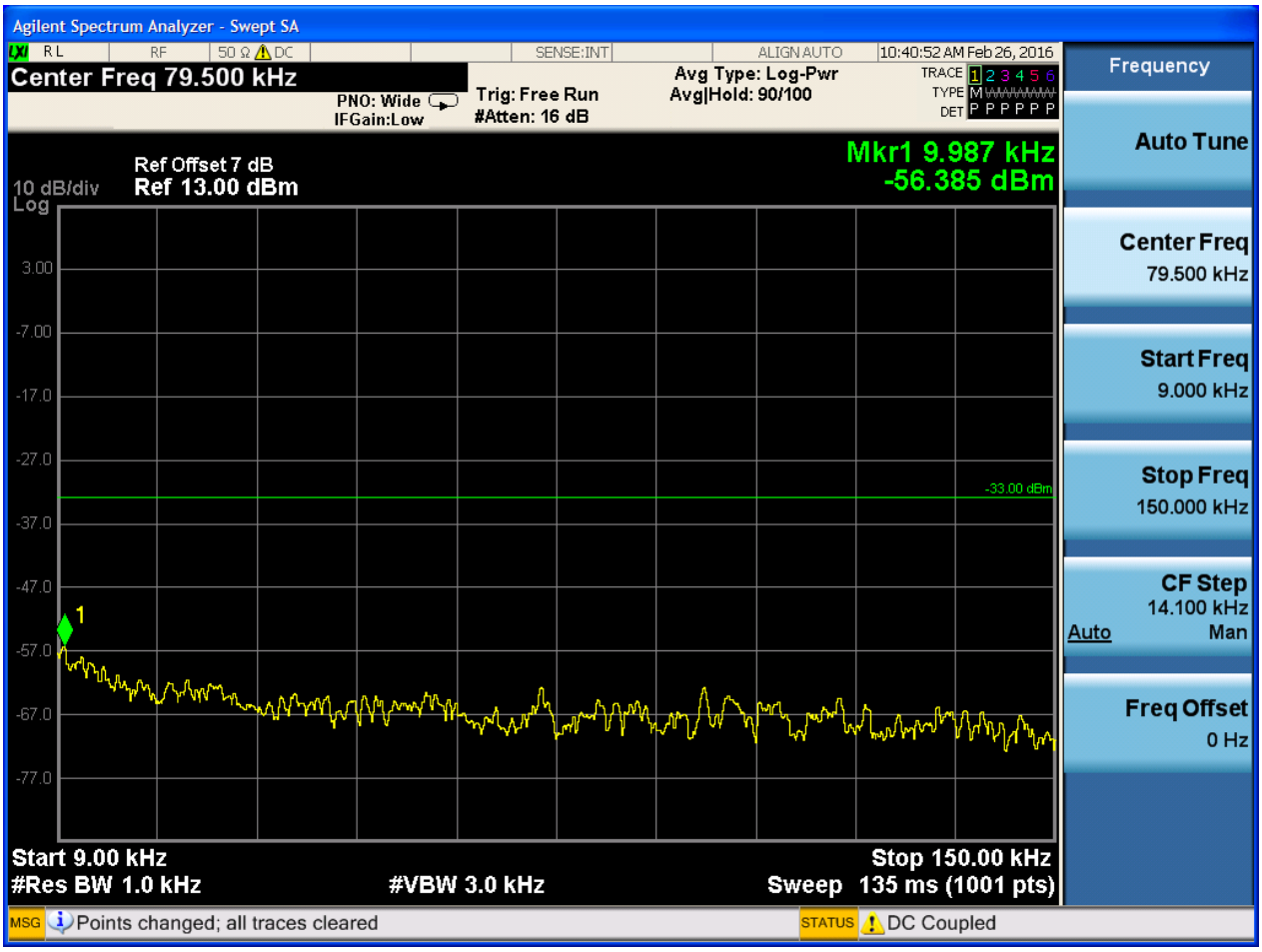
6.1.1.2.2.2 Test Channel = MCH

6.1.1.2.2.2.1 Test RB = RB1#0



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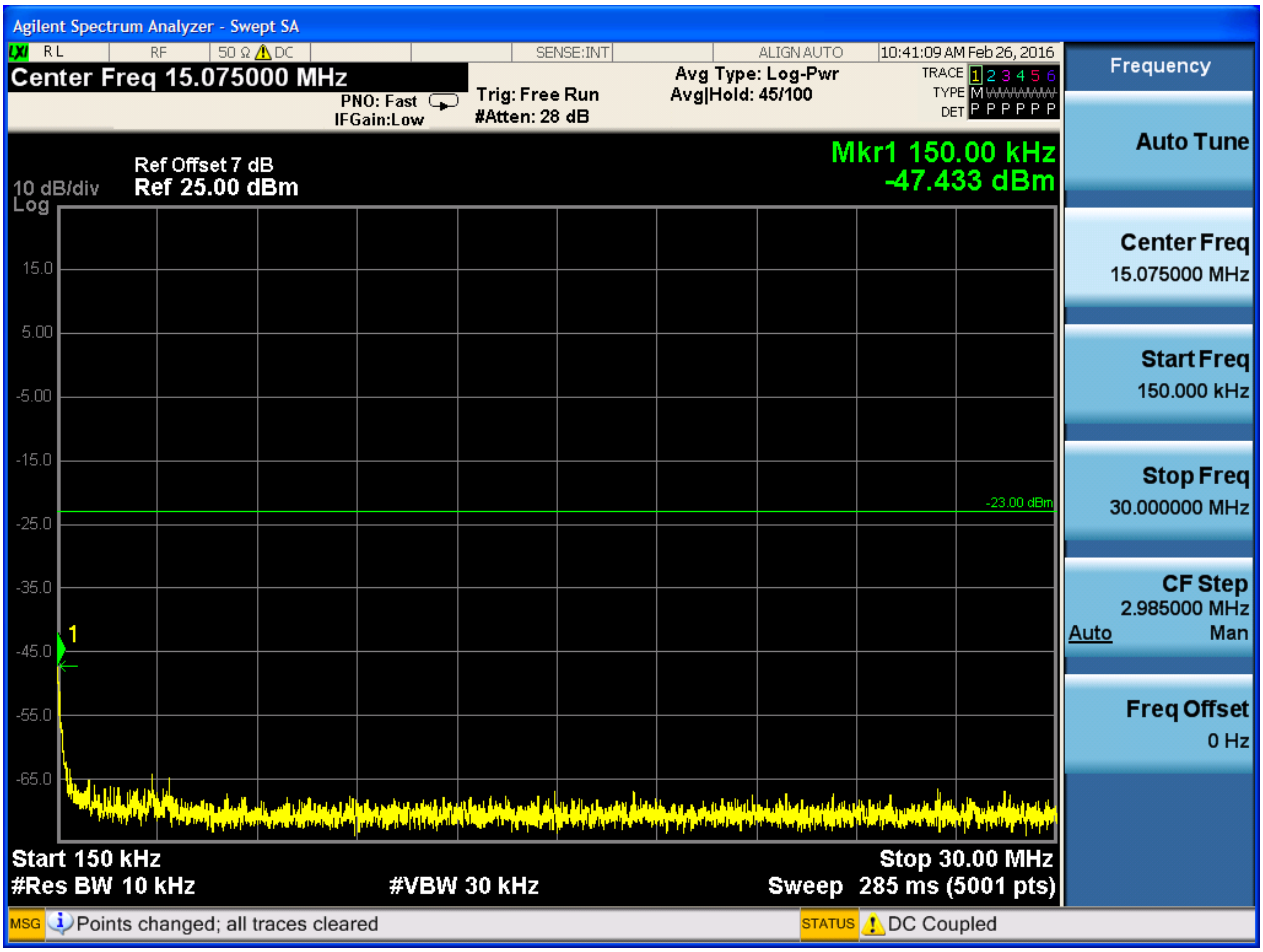

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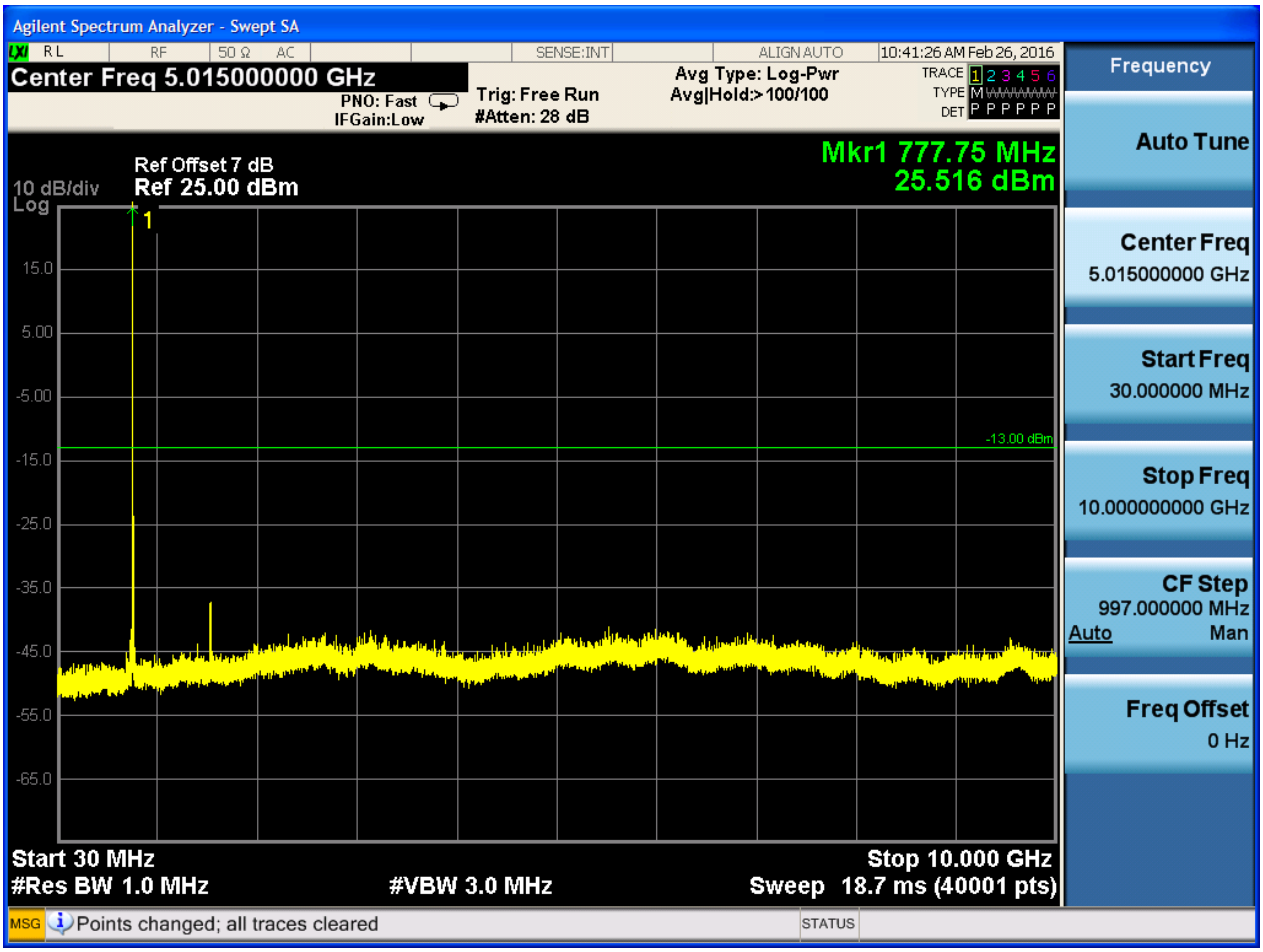

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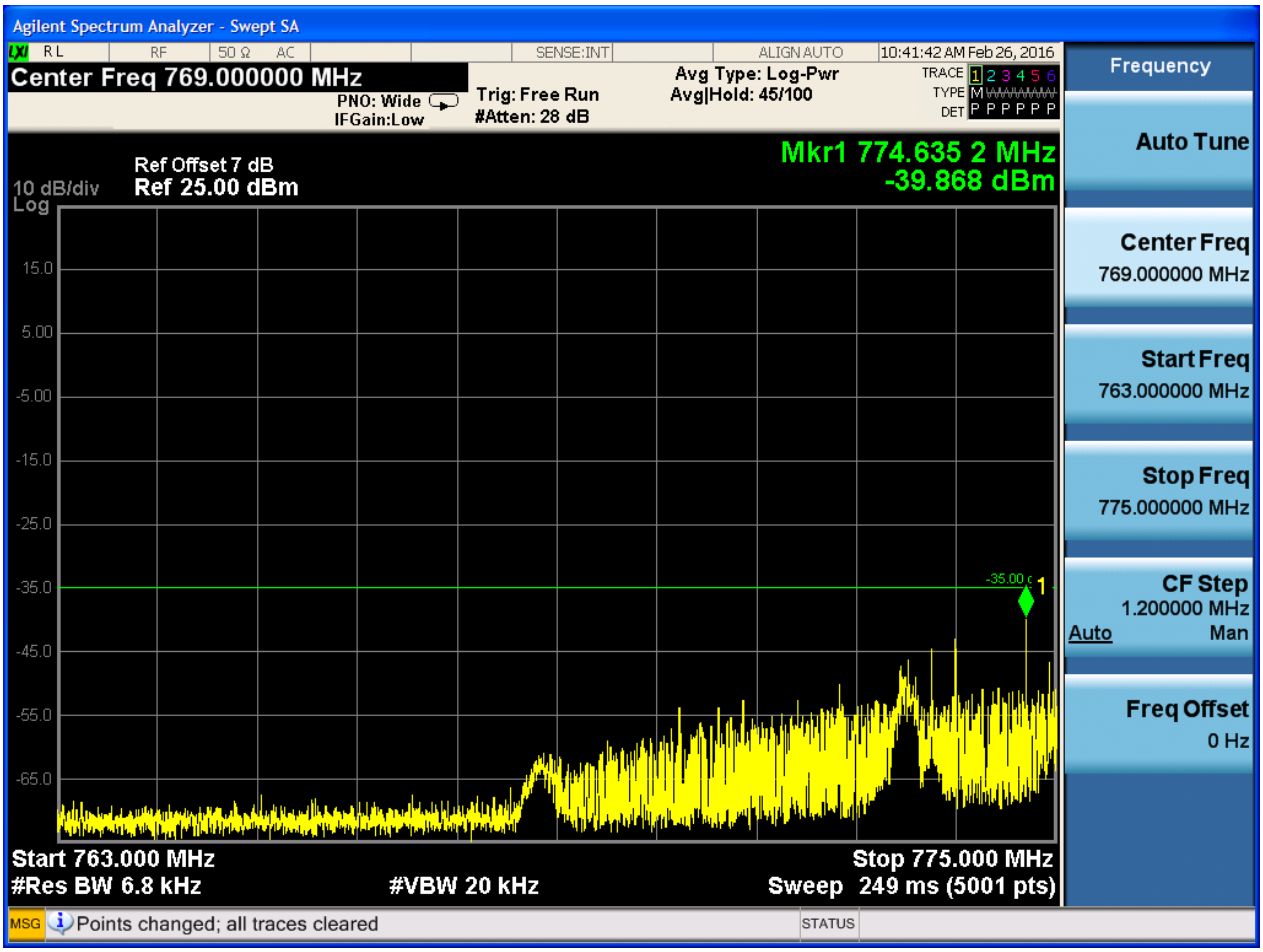

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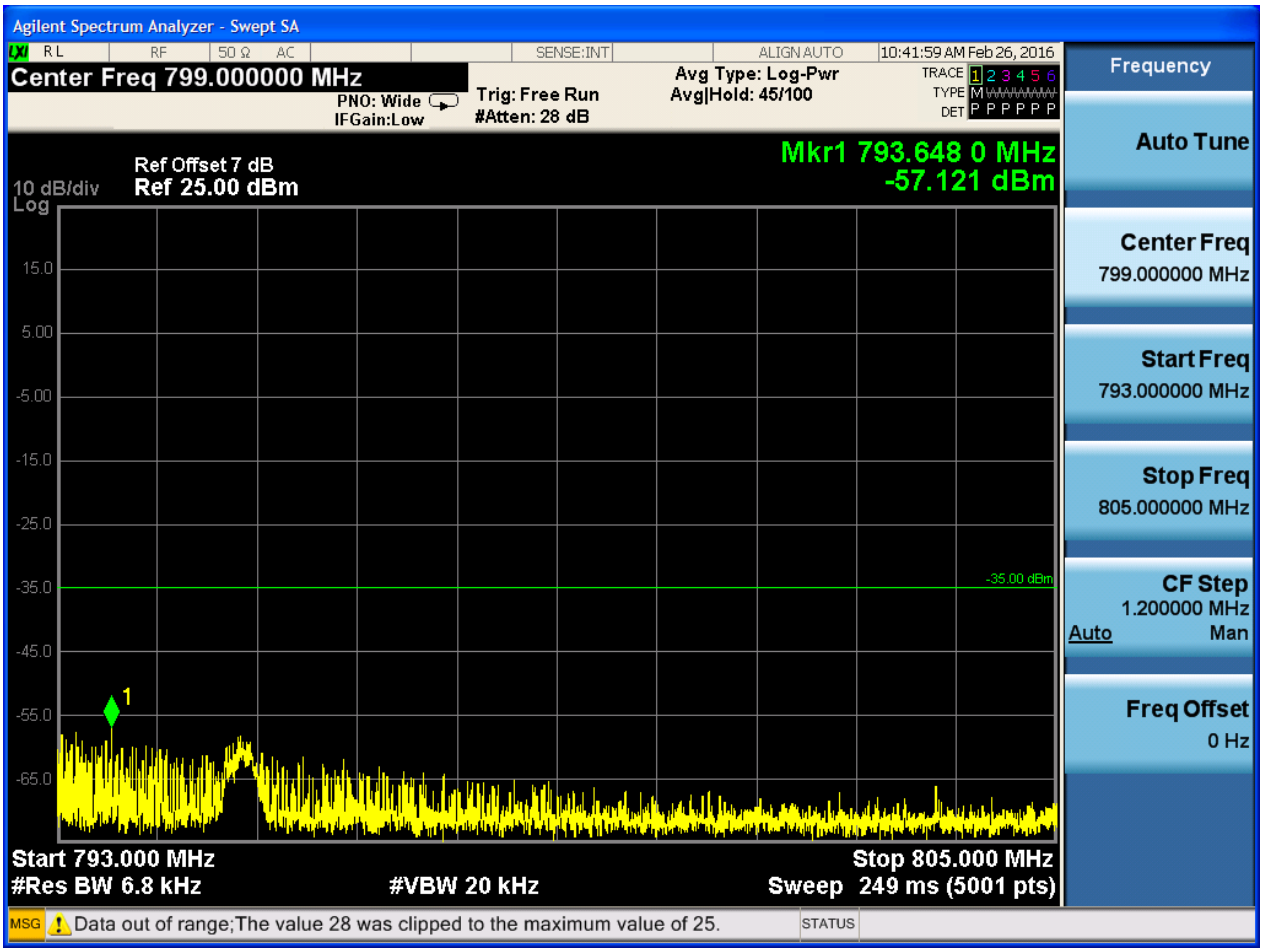

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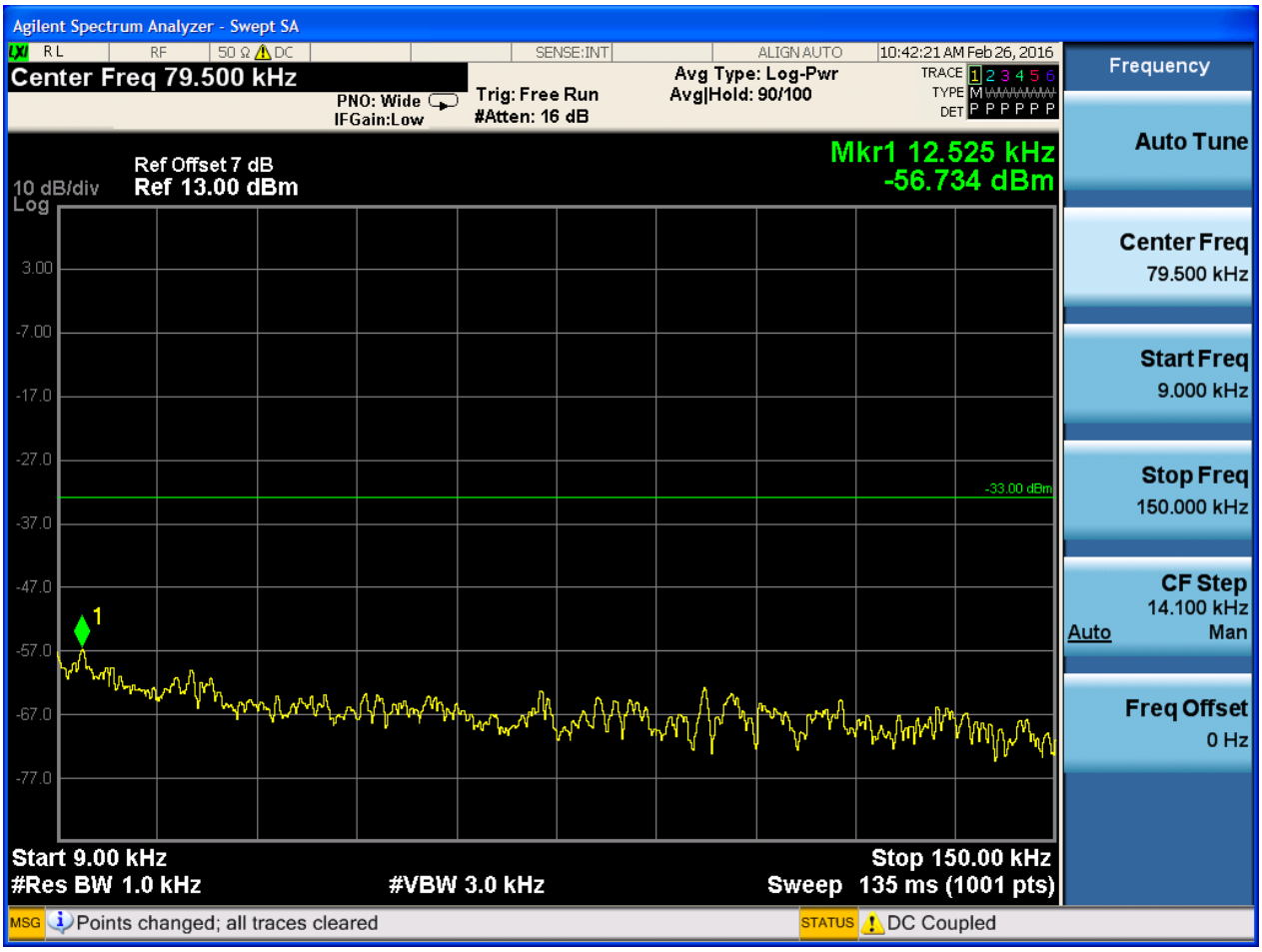
6.1.1.2.2.3 Test Channel = HCH

6.1.1.2.2.3.1 Test RB = RB1#0



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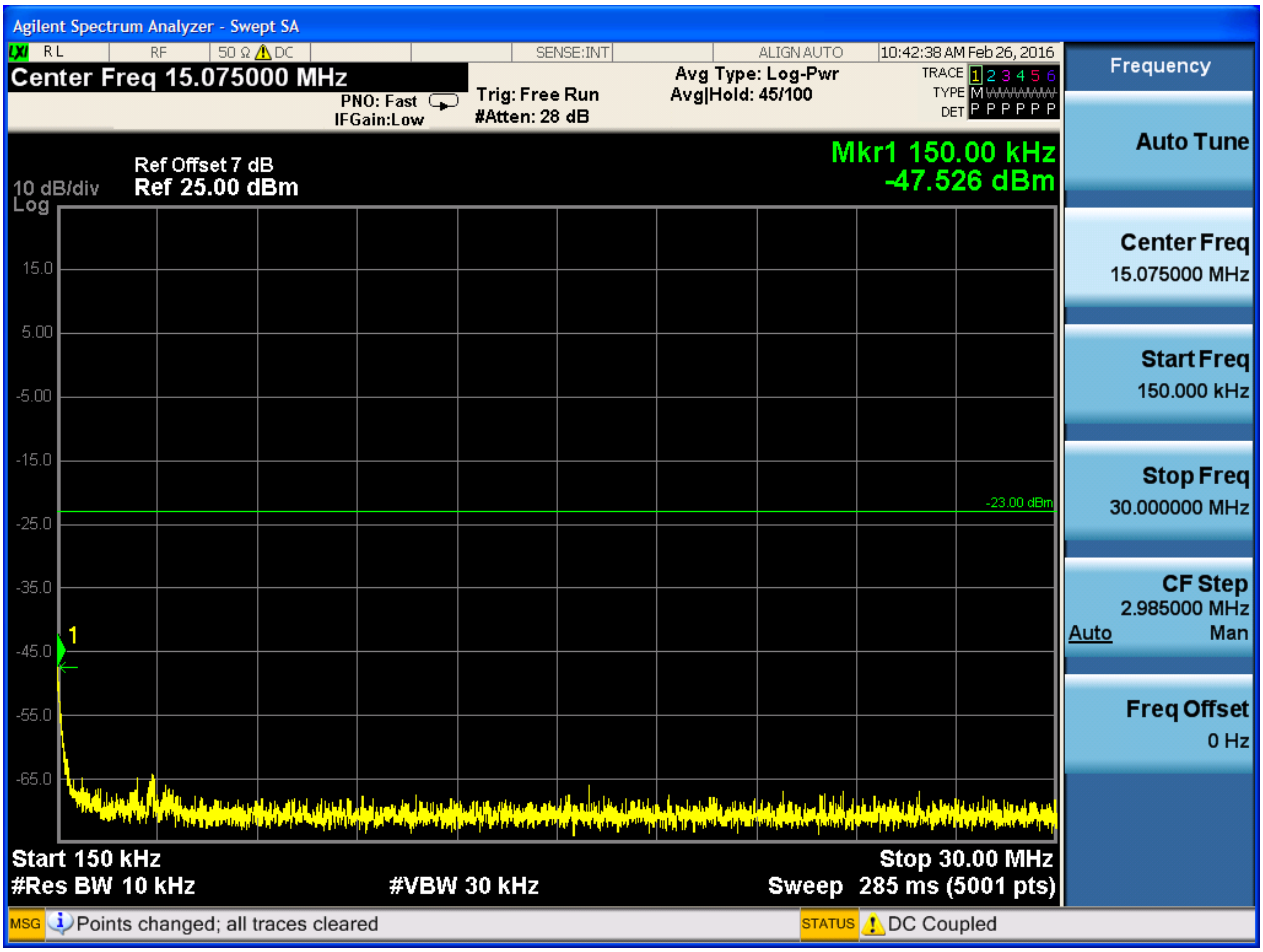

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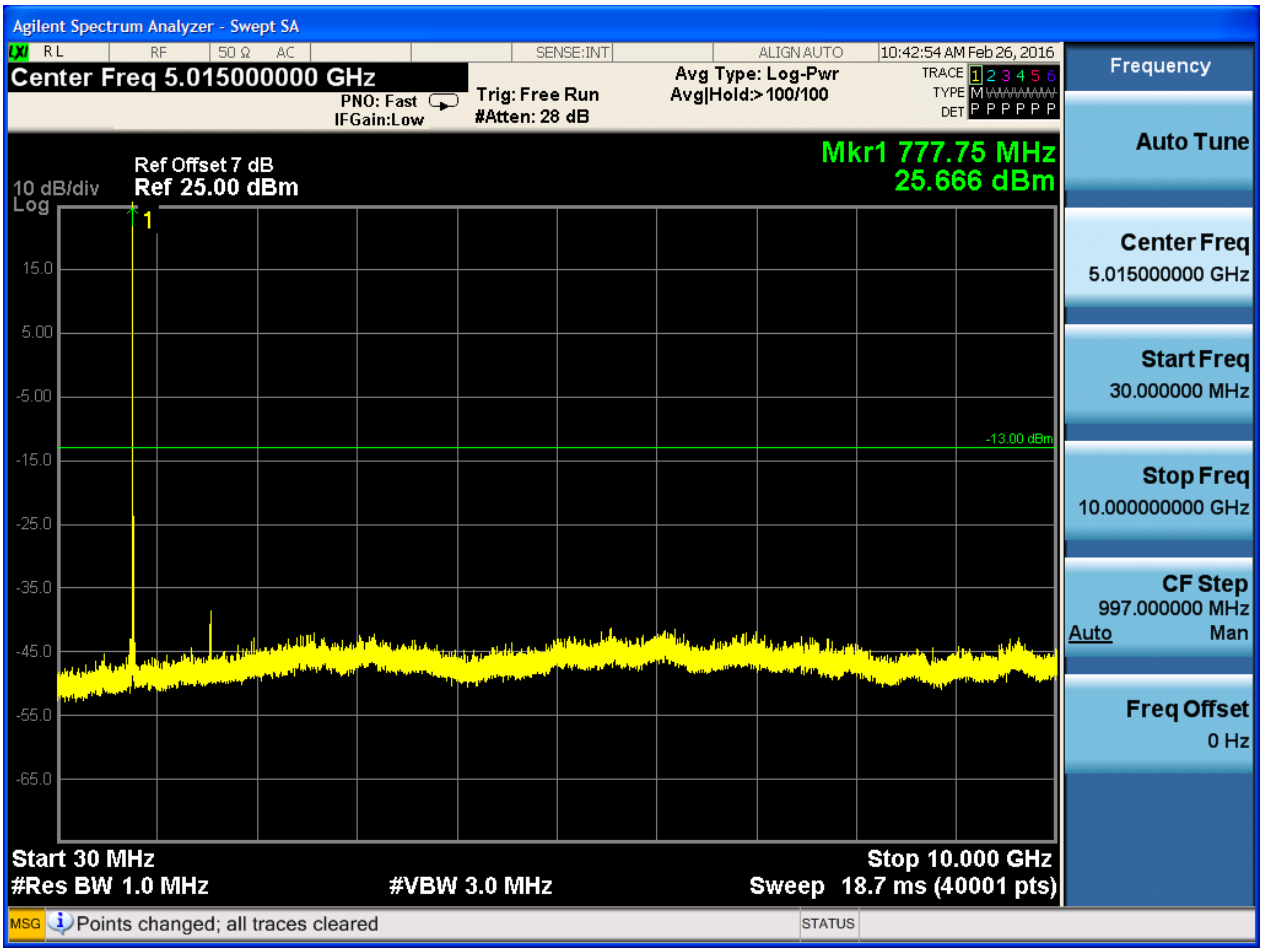

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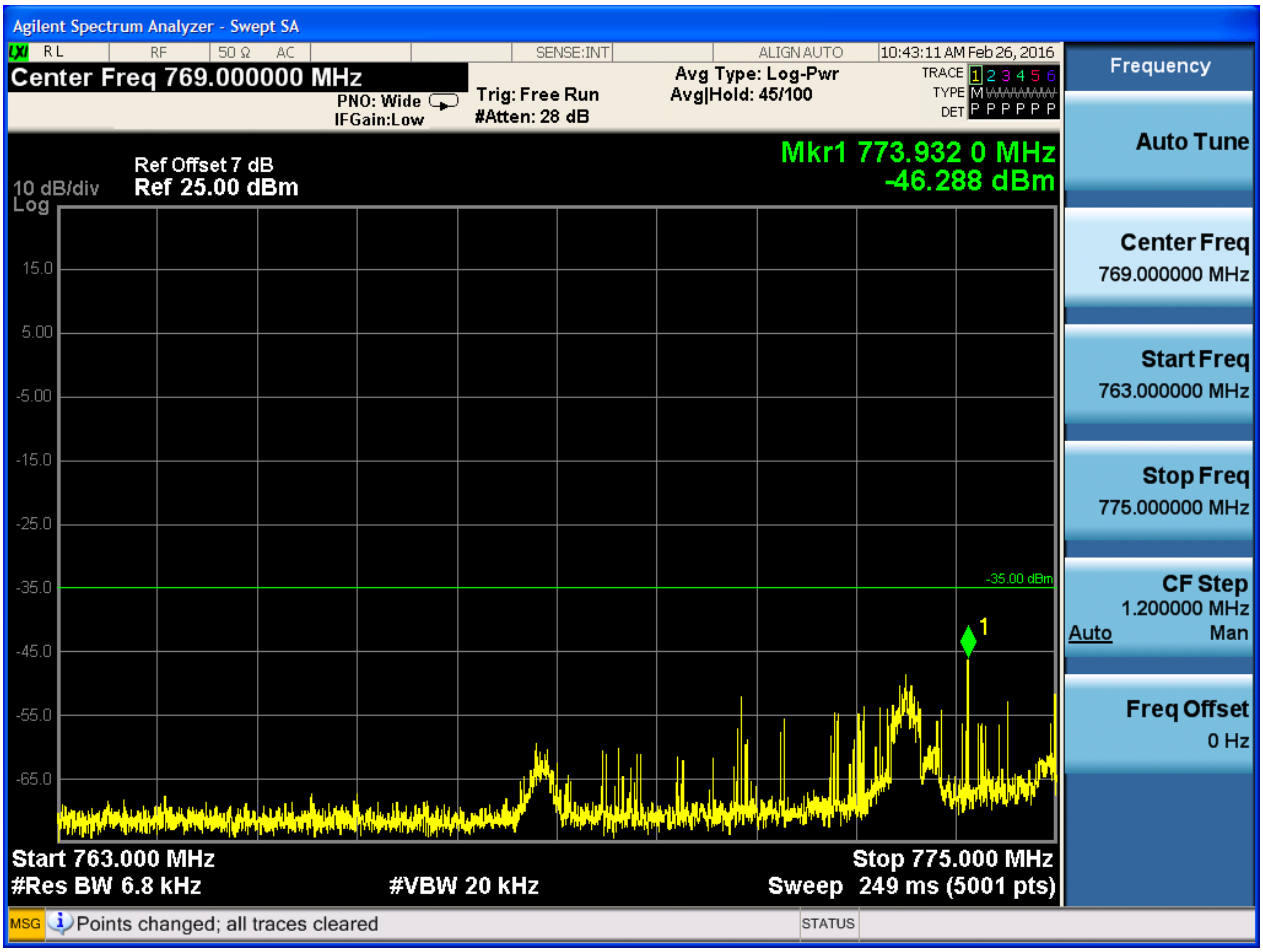

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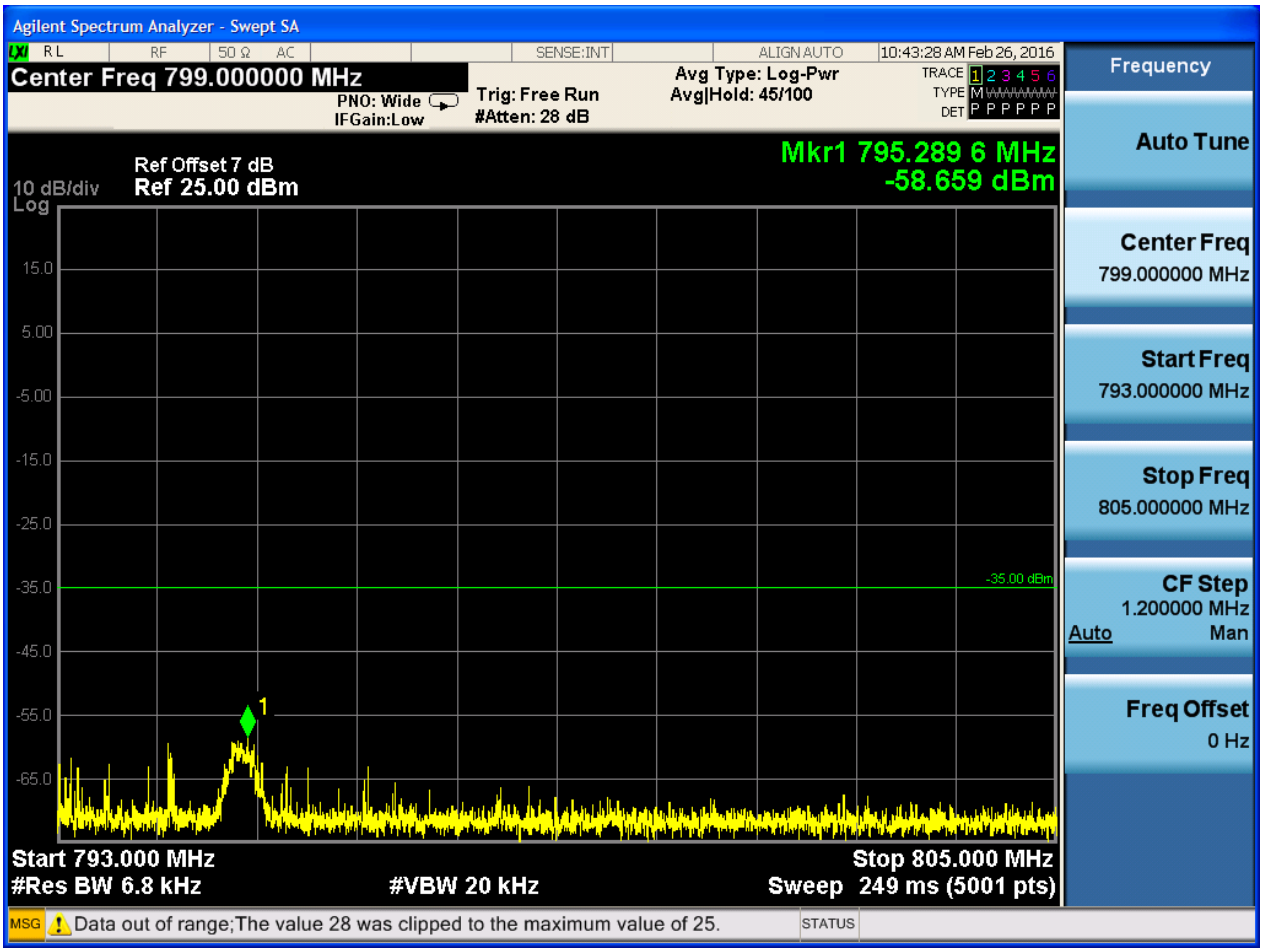

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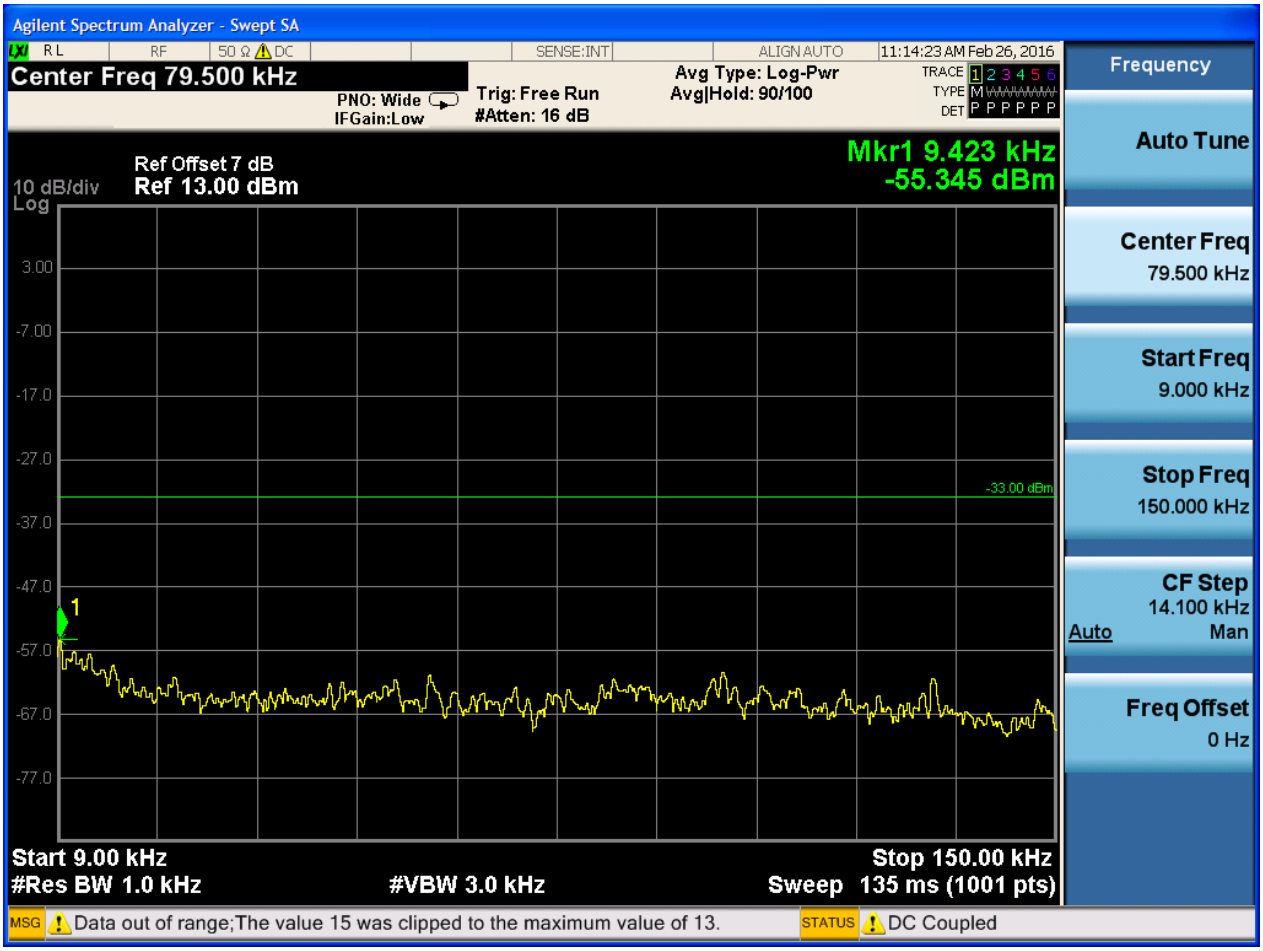
6.1.2 Test Band = BAND17

6.1.2.1 Test Mode = LTE/TM1

6.1.2.1.1 Test Bandwidth = 5

6.1.2.1.1.1 Test Channel = LCH

6.1.2.1.1.1.1 Test RB = RB1#0



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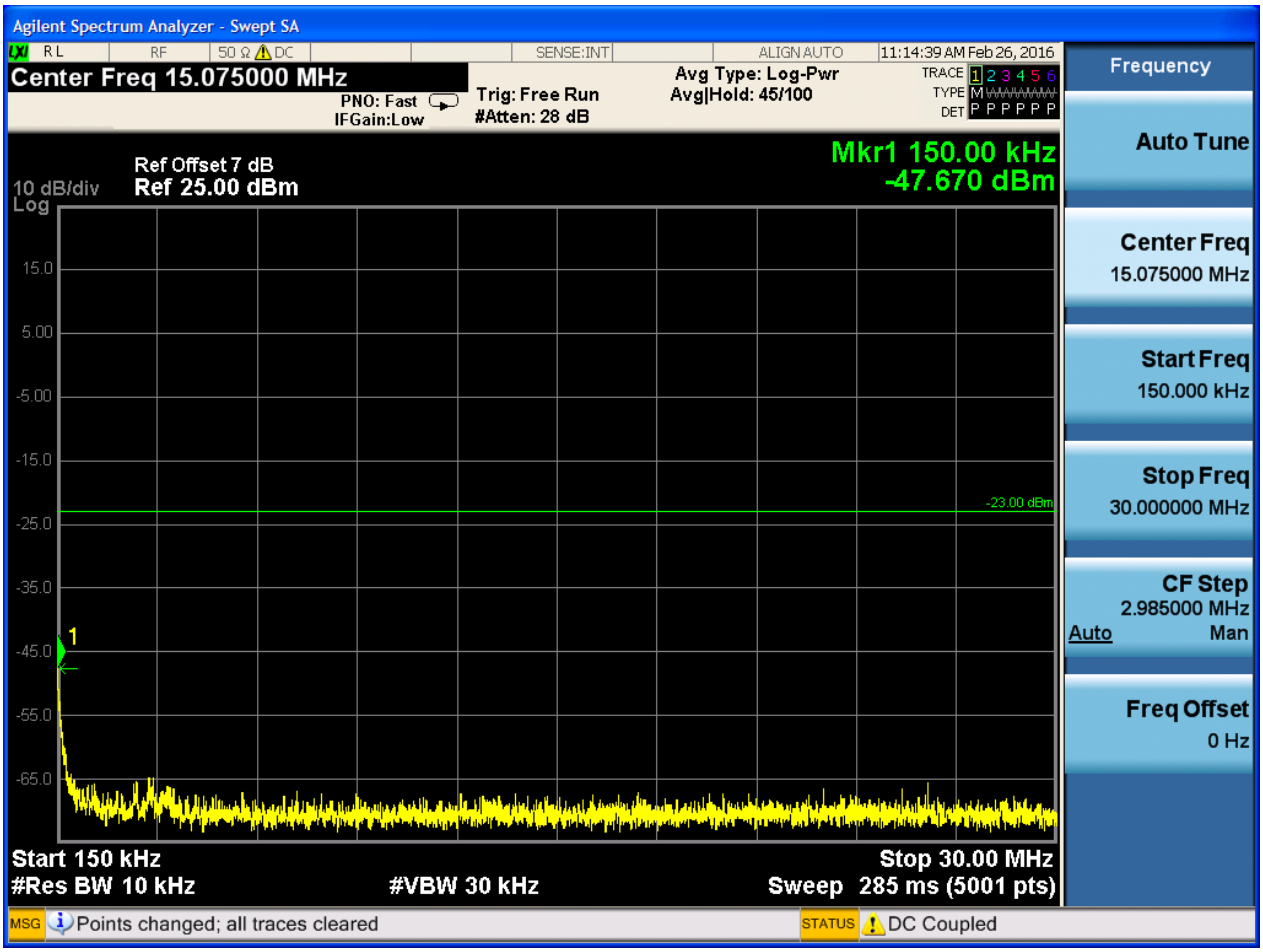

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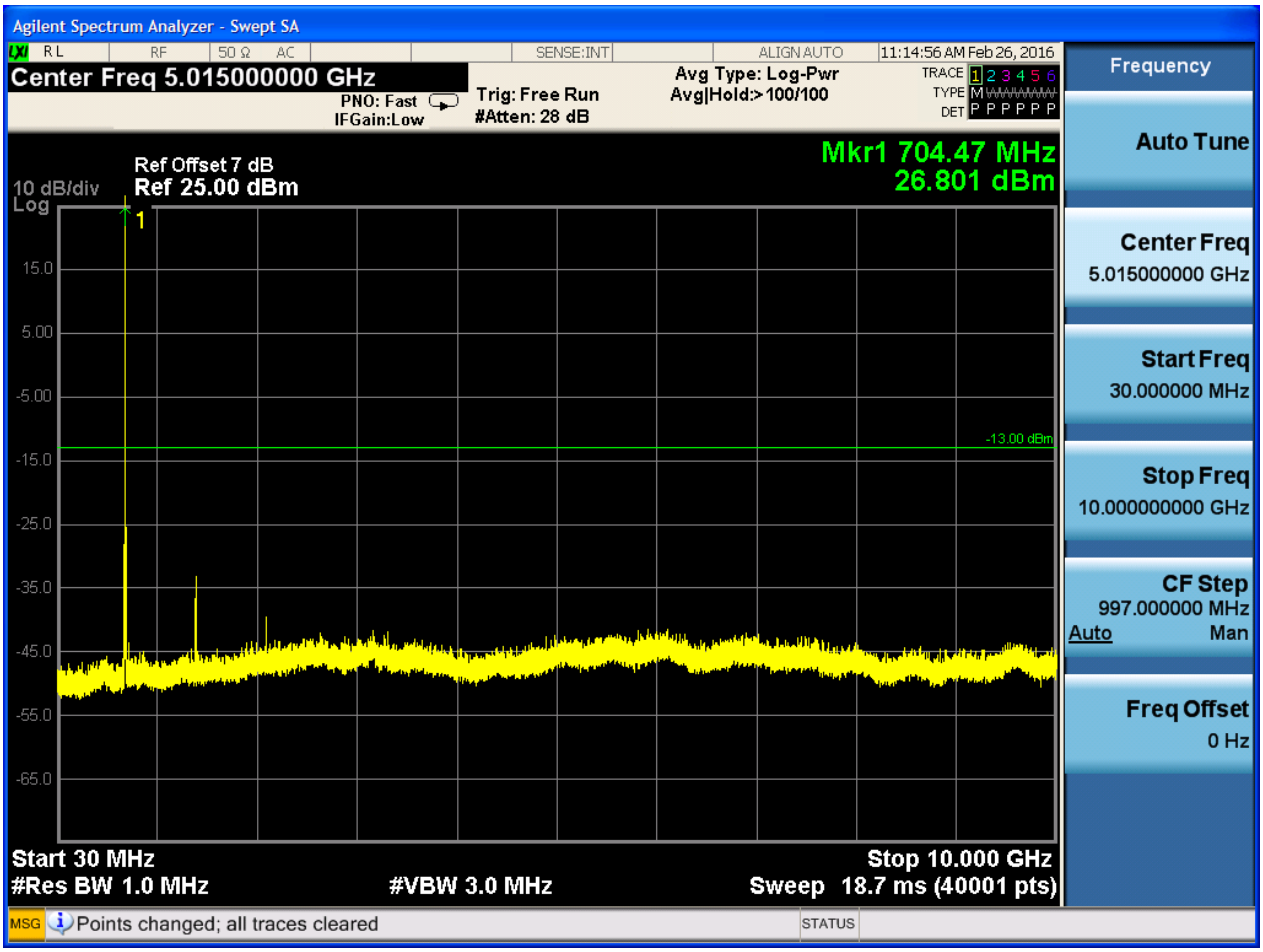

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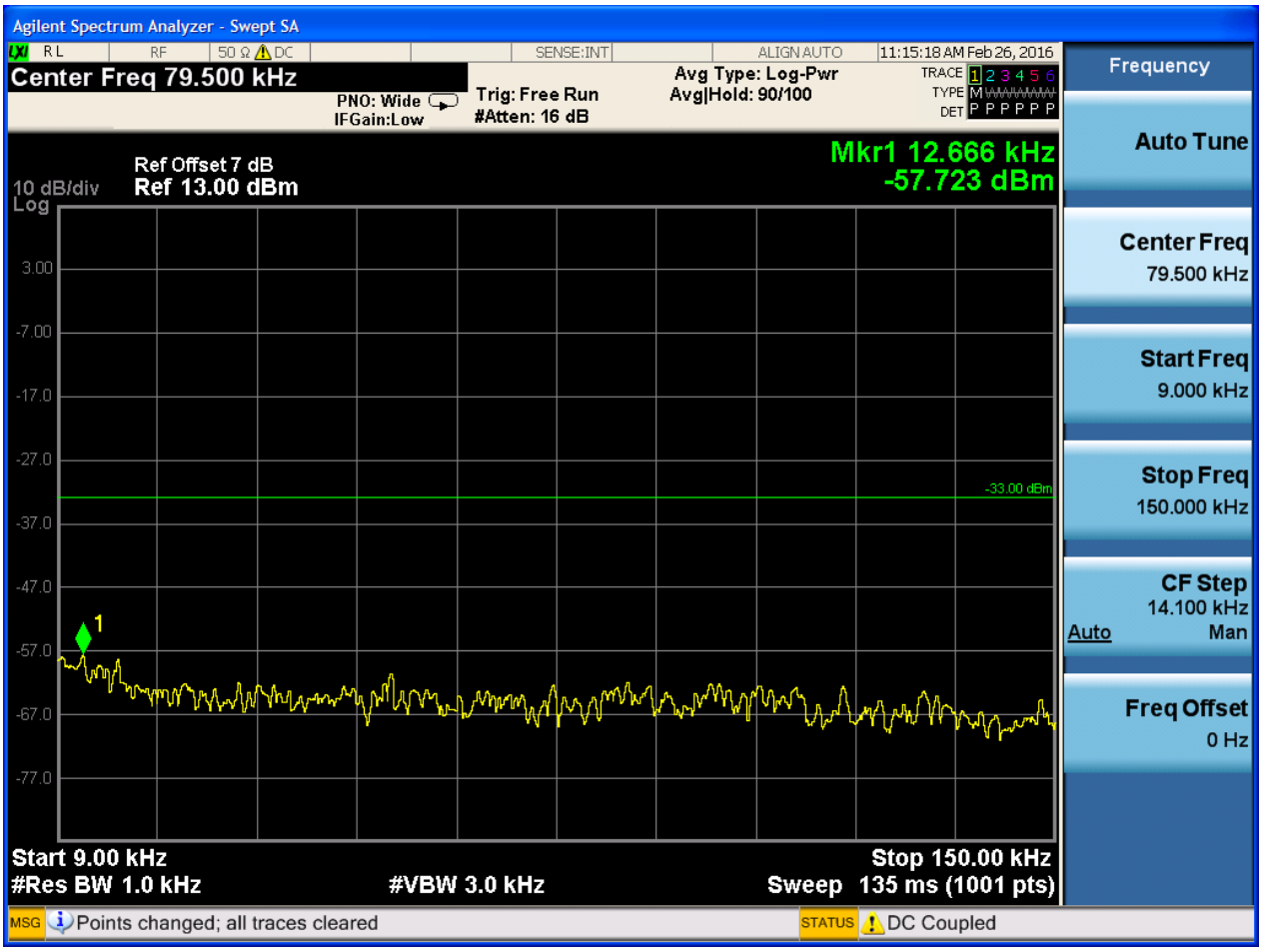
6.1.2.1.1.2 Test Channel = MCH

6.1.2.1.1.2.1 Test RB = RB1#0



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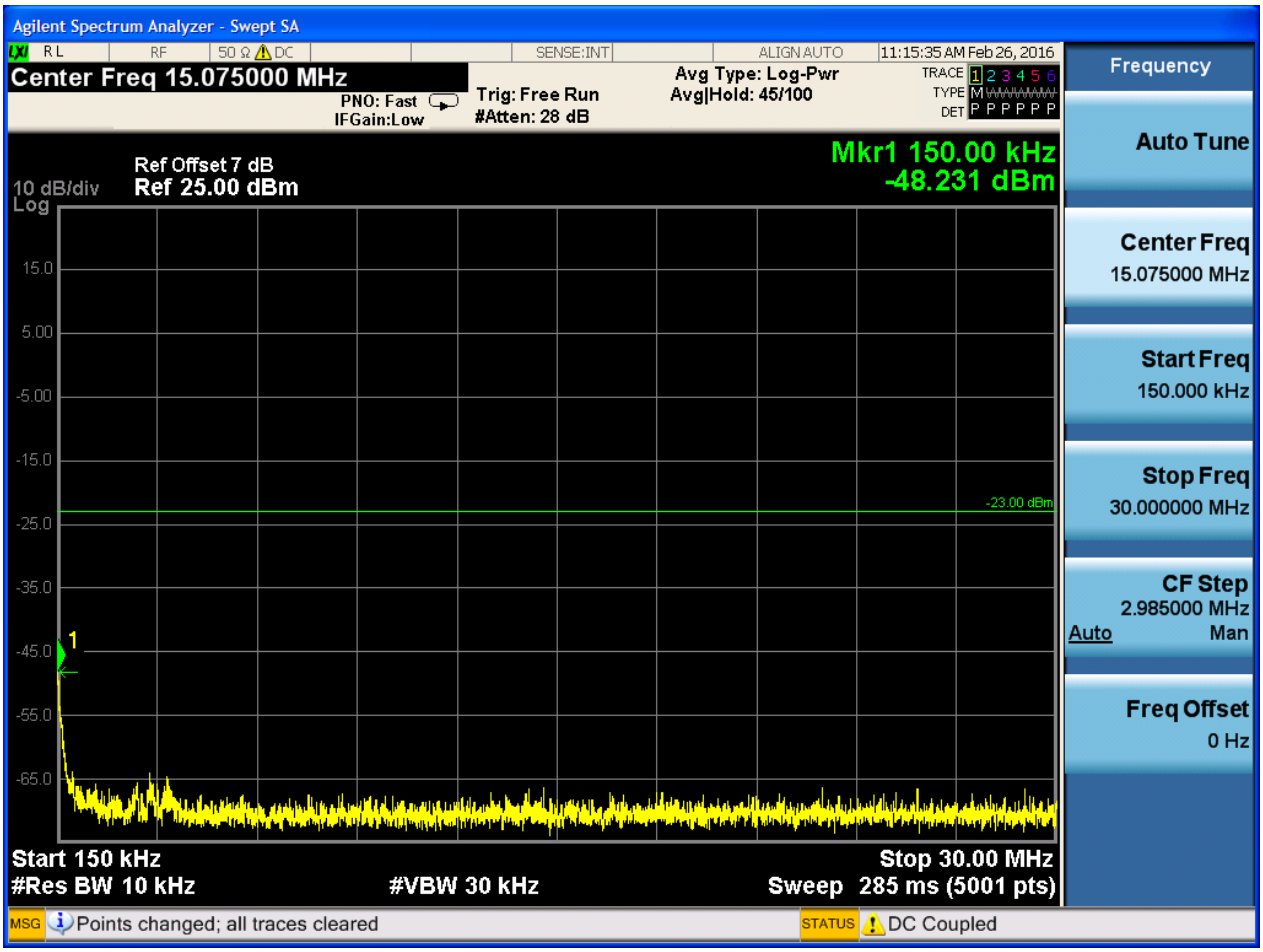

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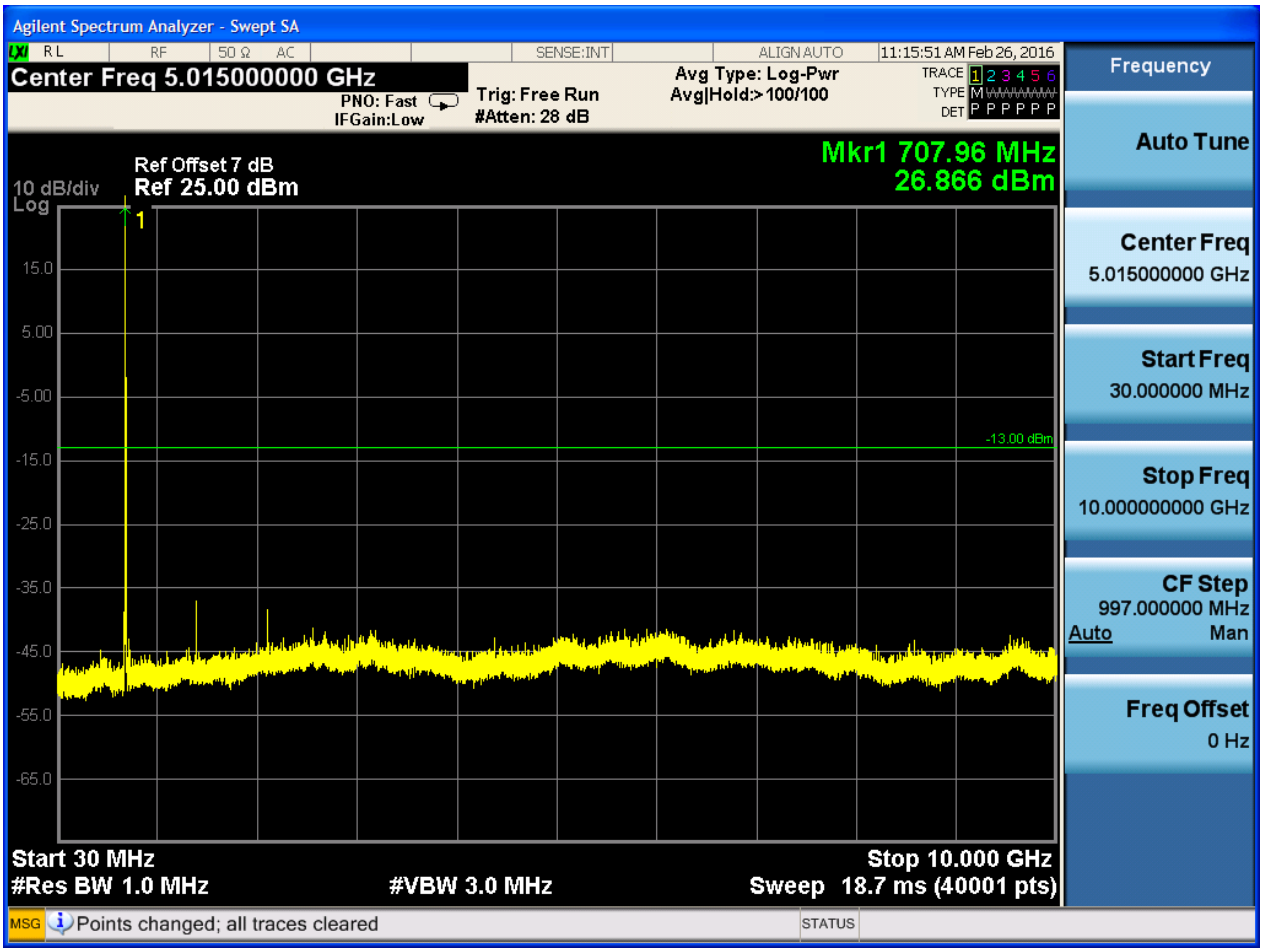

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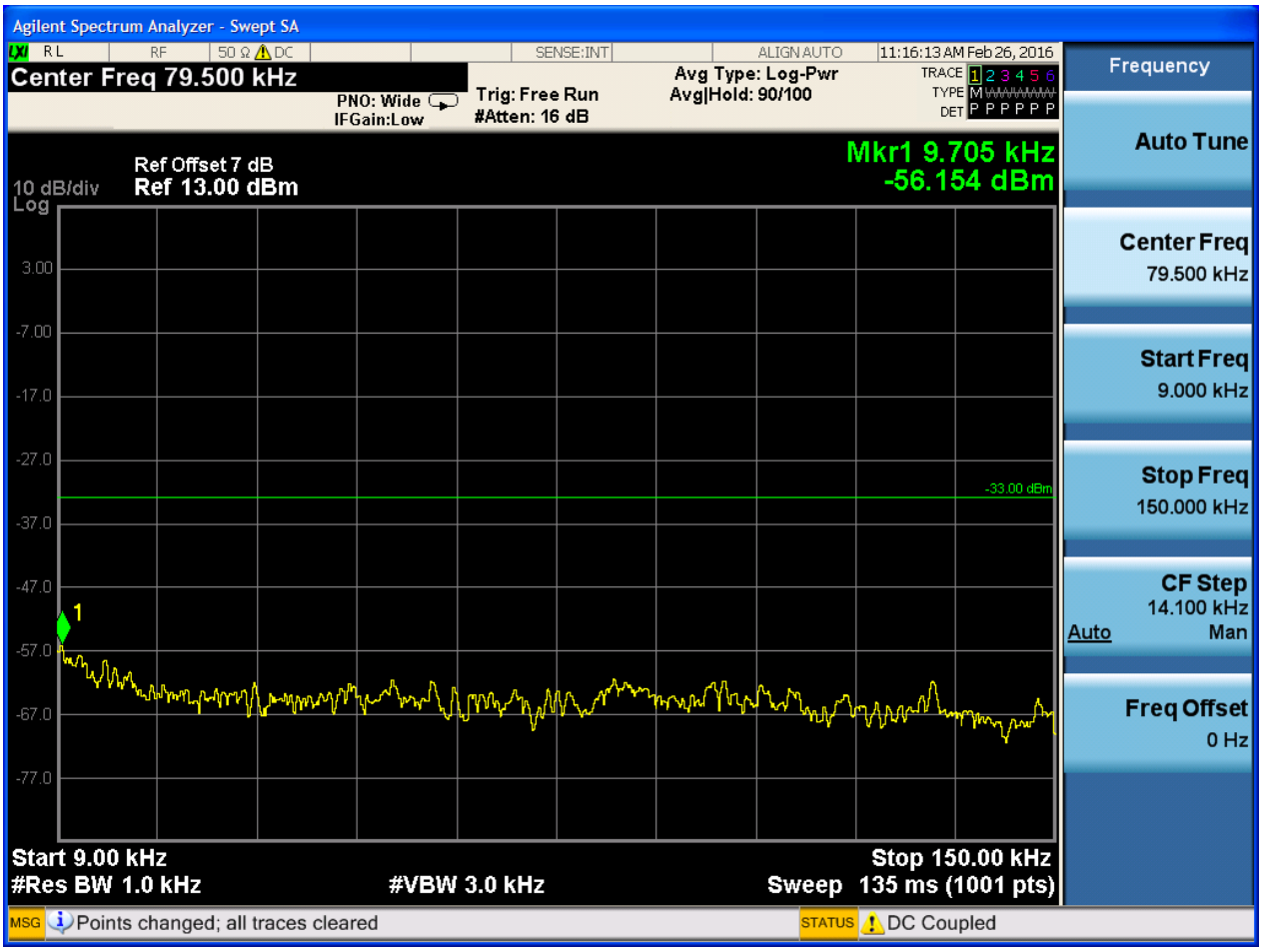
6.1.2.1.1.3 Test Channel = HCH

6.1.2.1.1.3.1 Test RB = RB1#0



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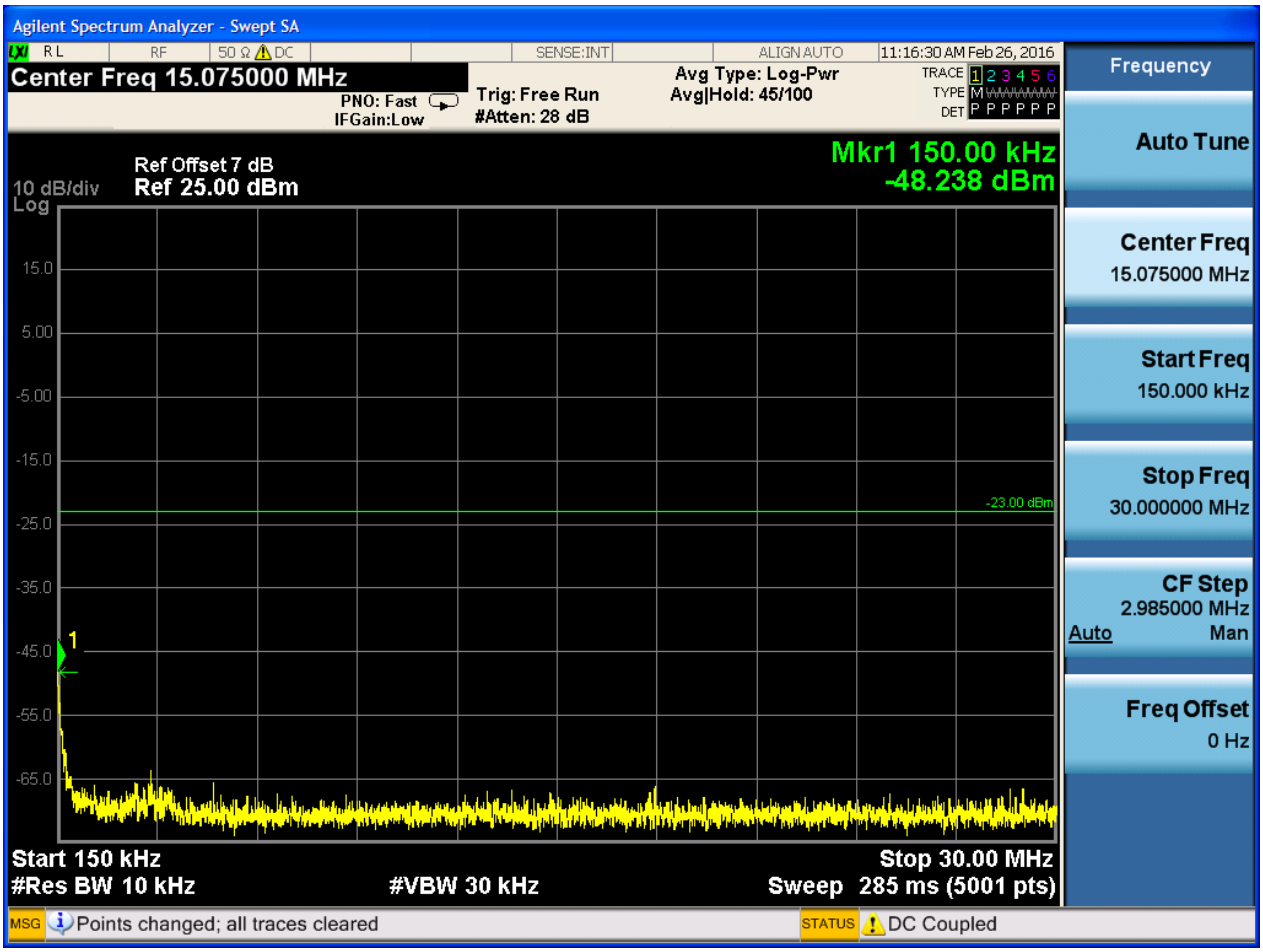

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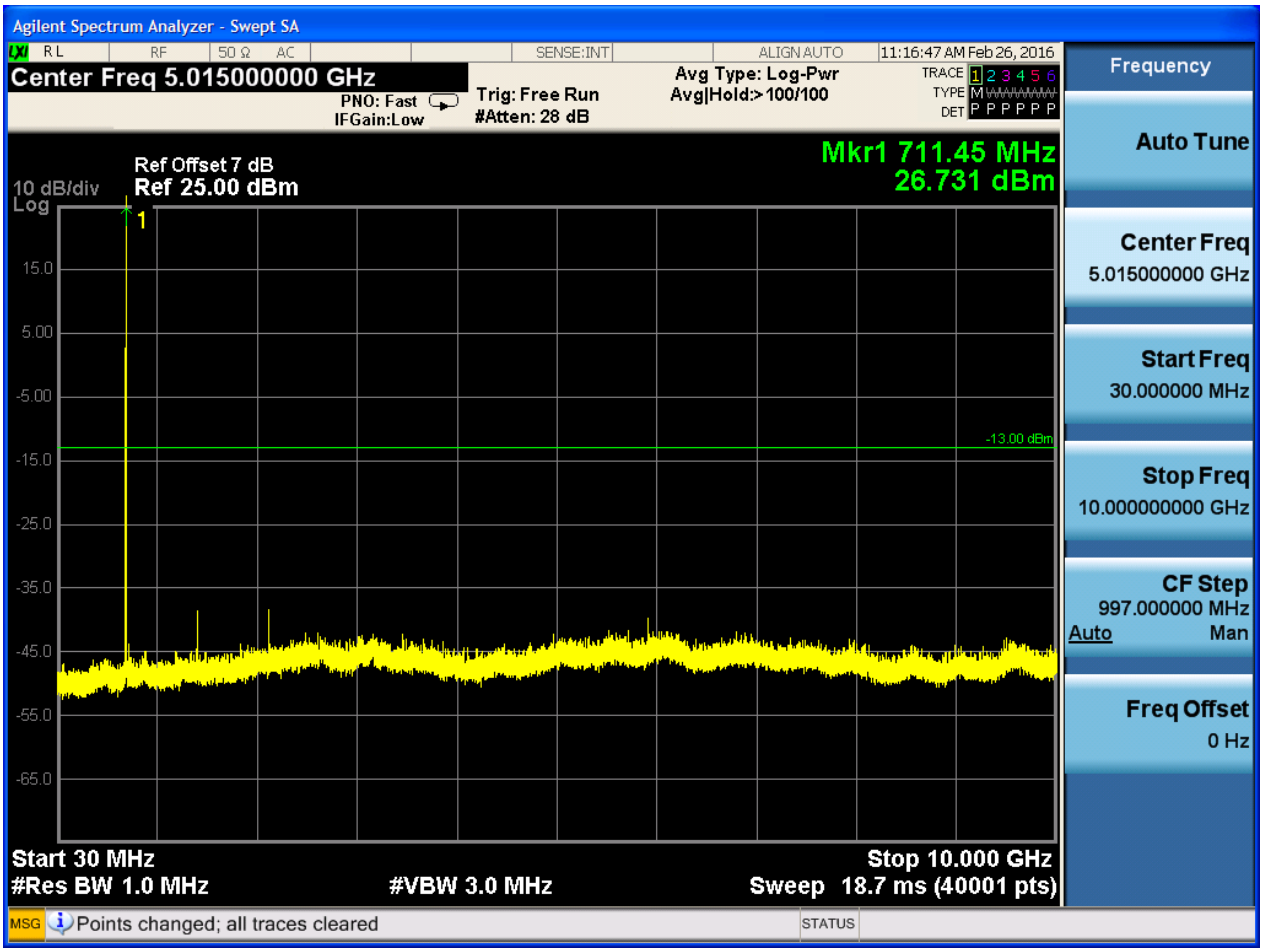

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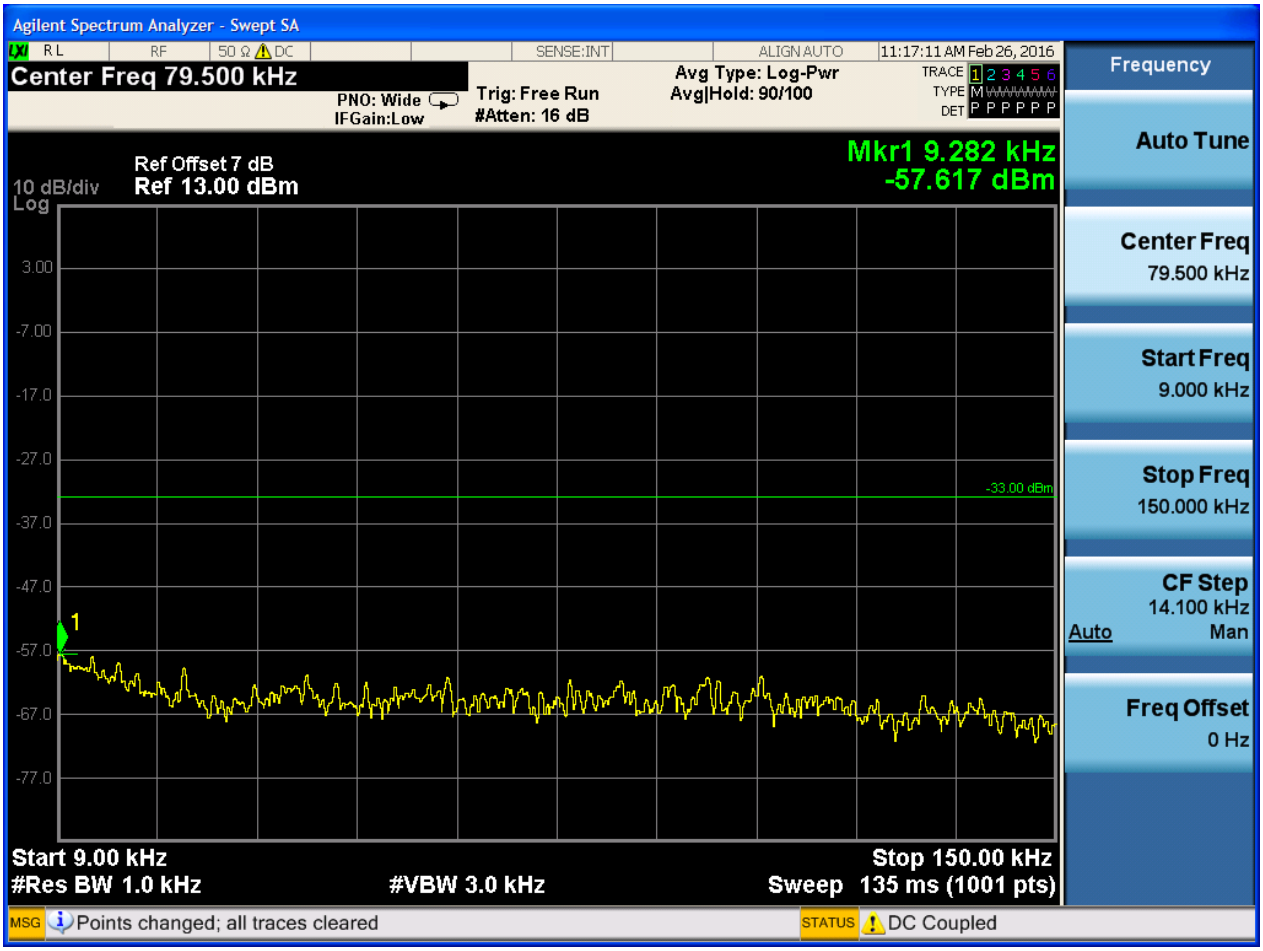
6.1.2.1.2 Test Bandwidth = 10

6.1.2.1.2.1 Test Channel = LCH

6.1.2.1.2.1.1 Test RB = RB1#0



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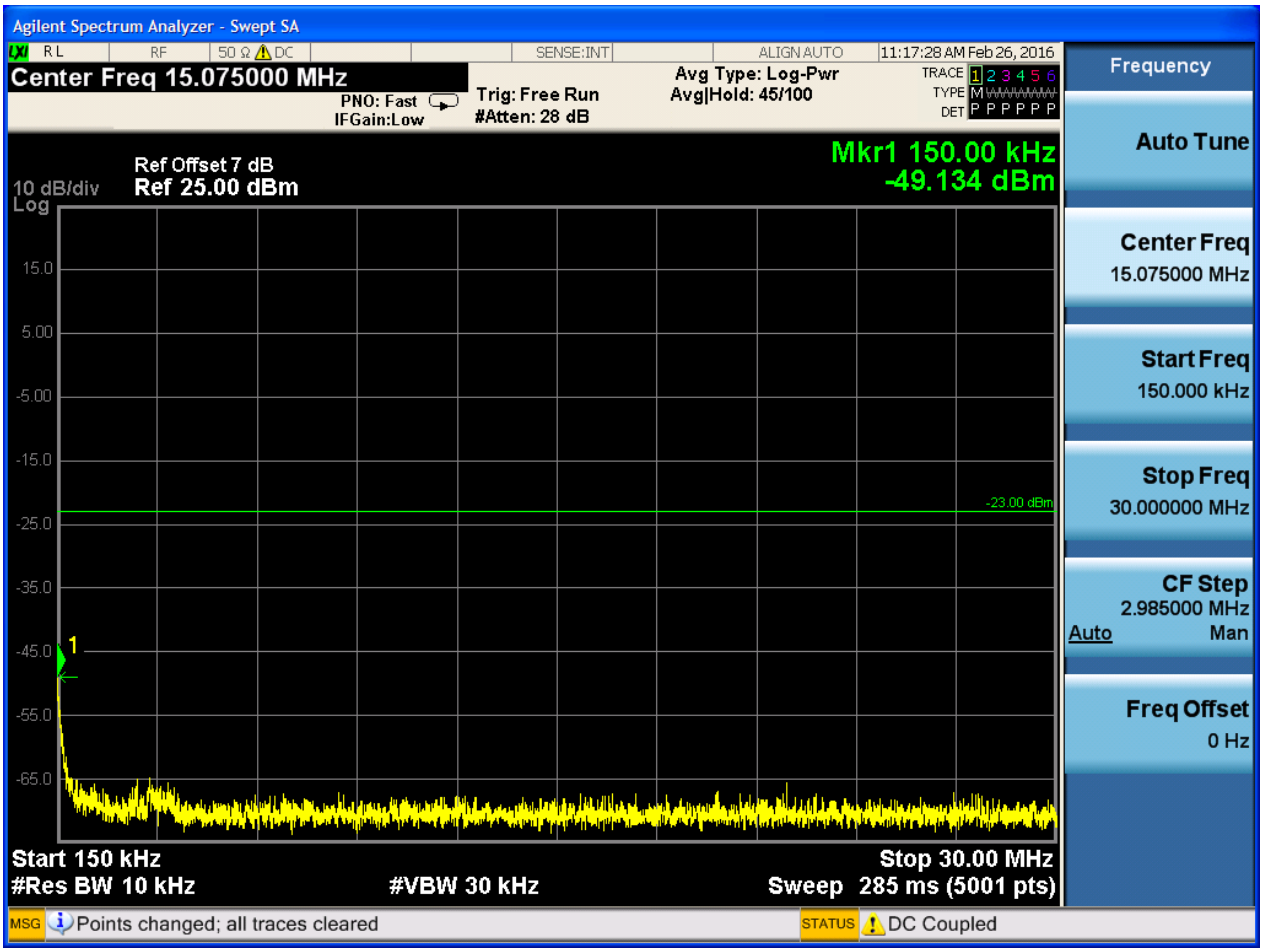

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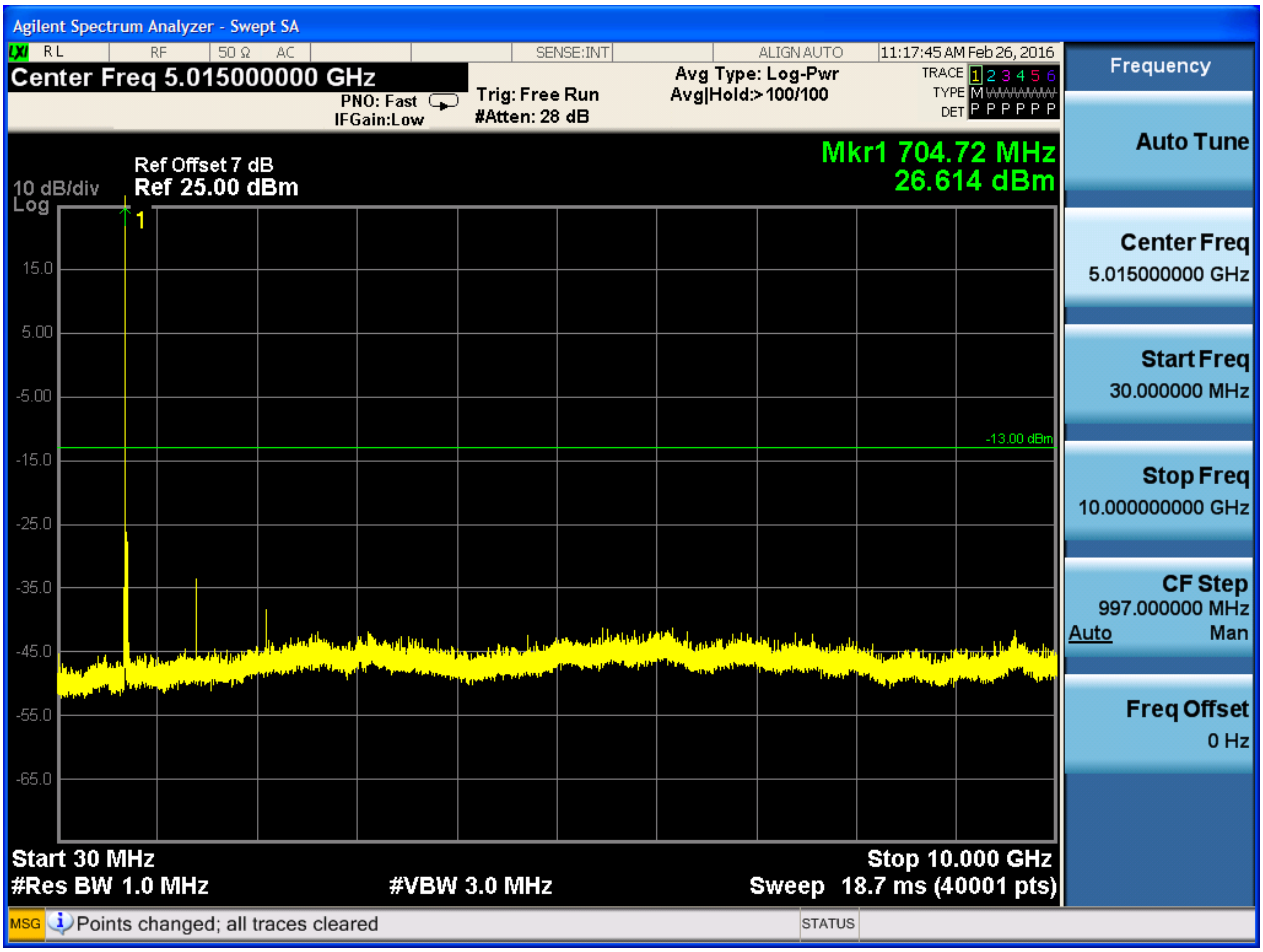

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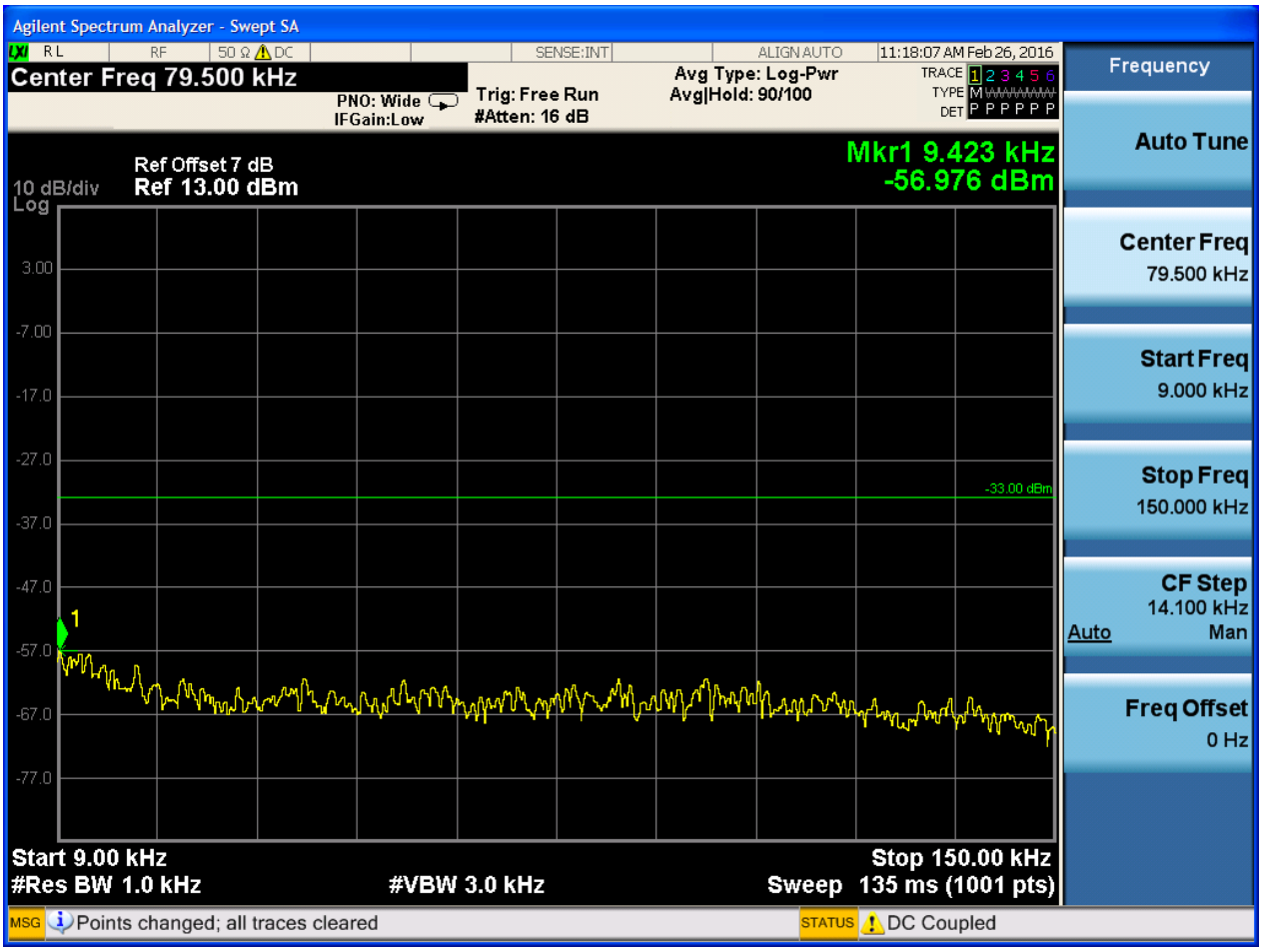
6.1.2.1.2.2 Test Channel = MCH

6.1.2.1.2.2.1 Test RB = RB1#0



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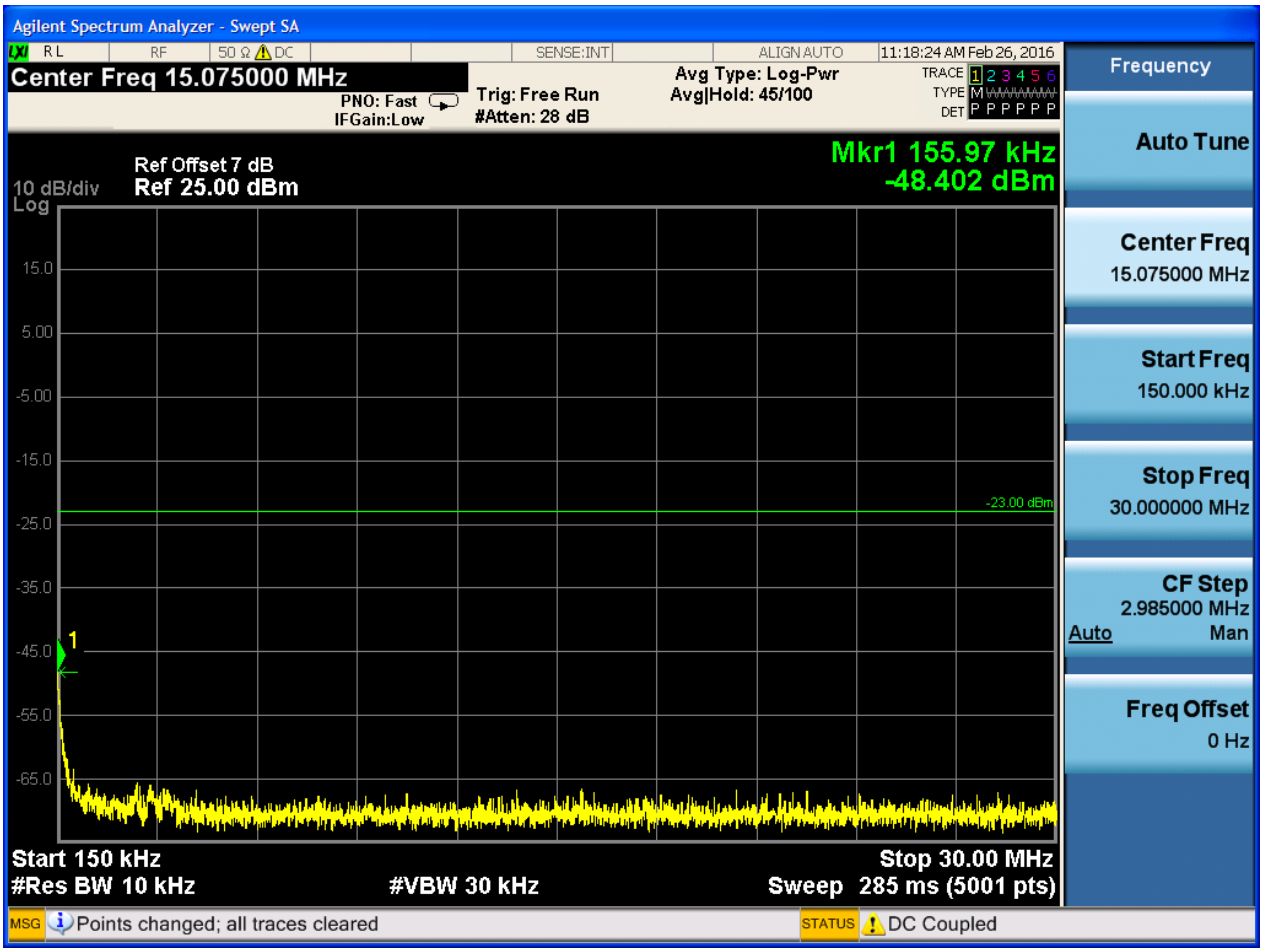

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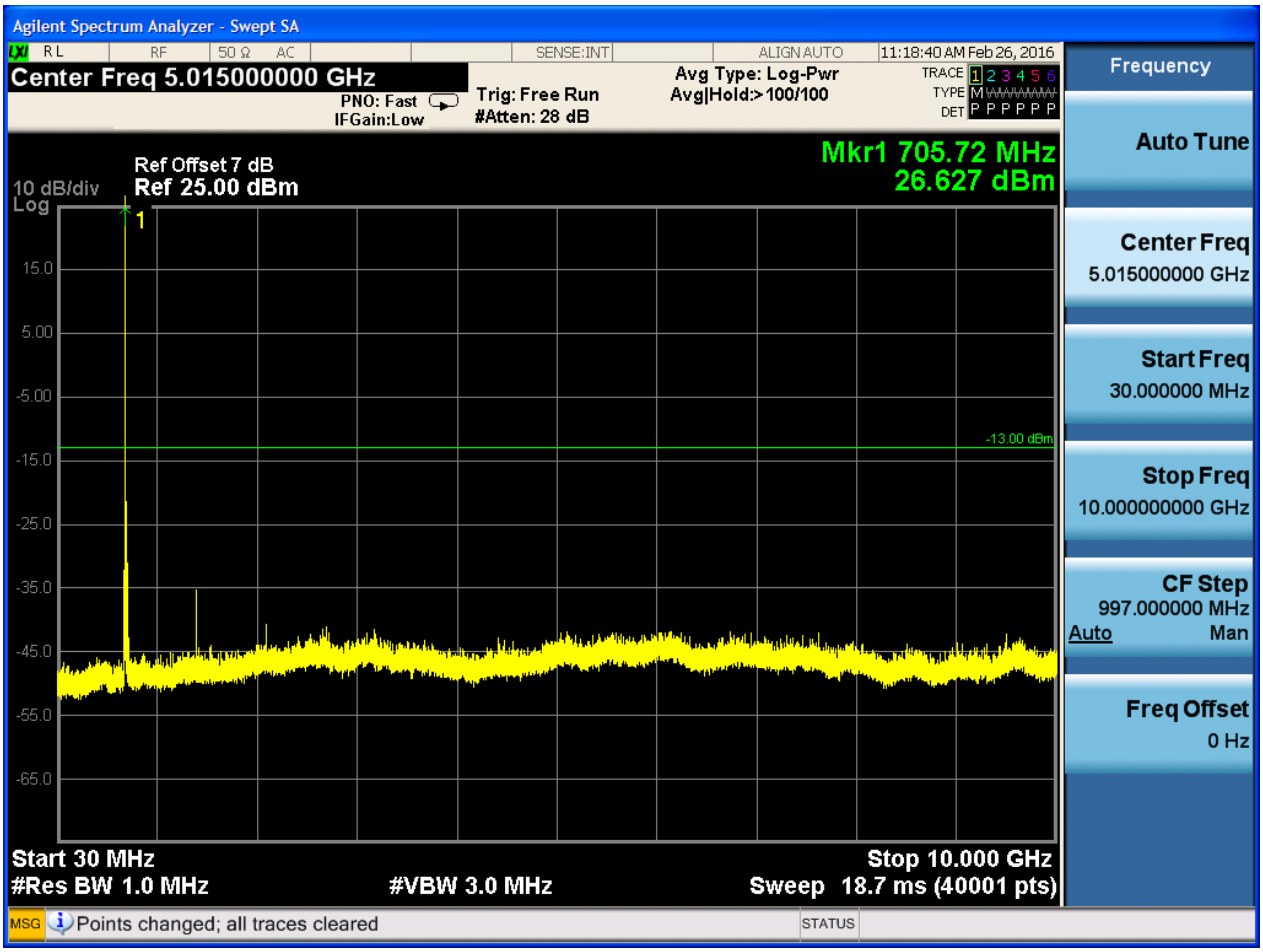

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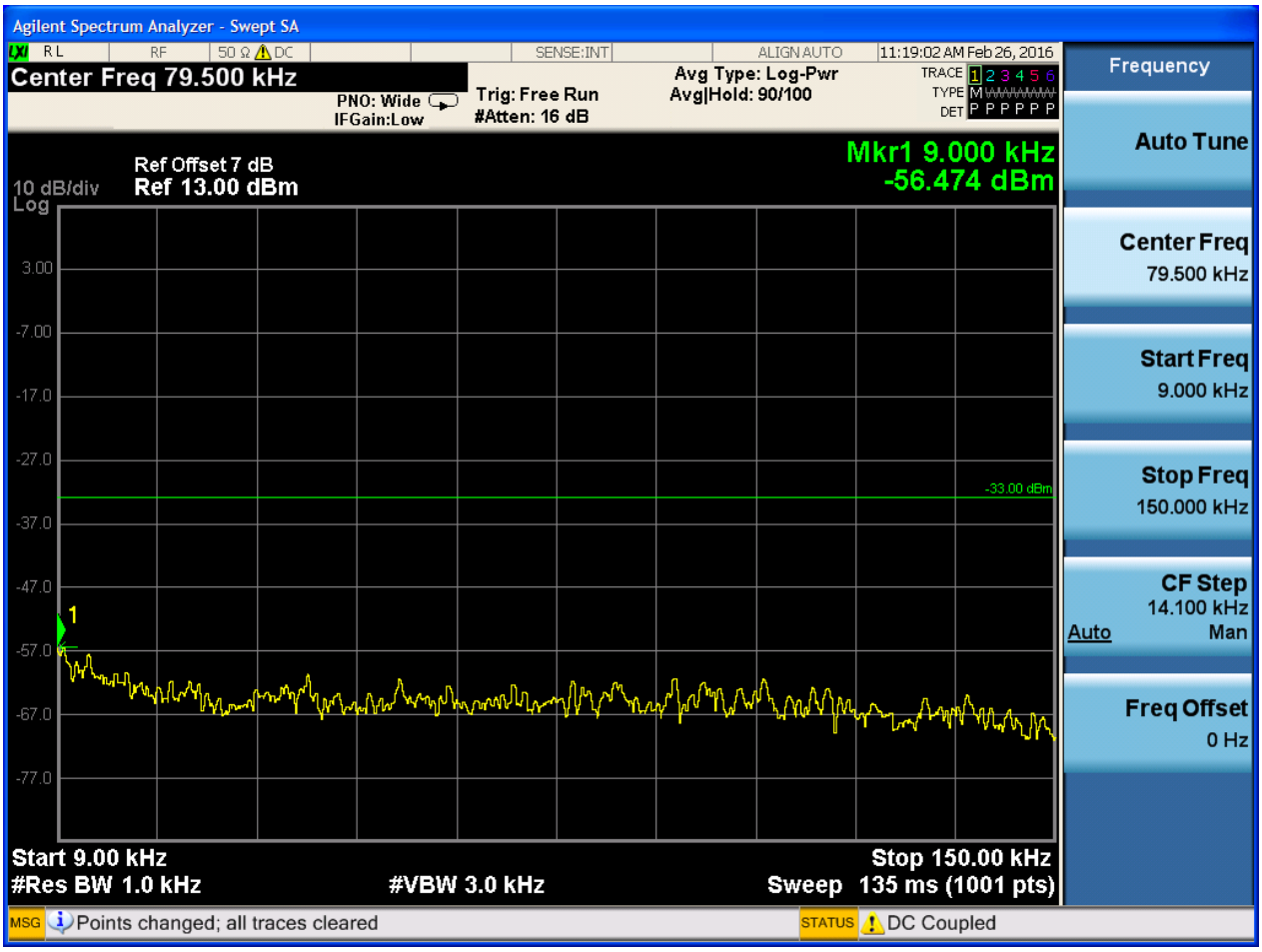
6.1.2.1.2.3 Test Channel = HCH

6.1.2.1.2.3.1 Test RB = RB1#0



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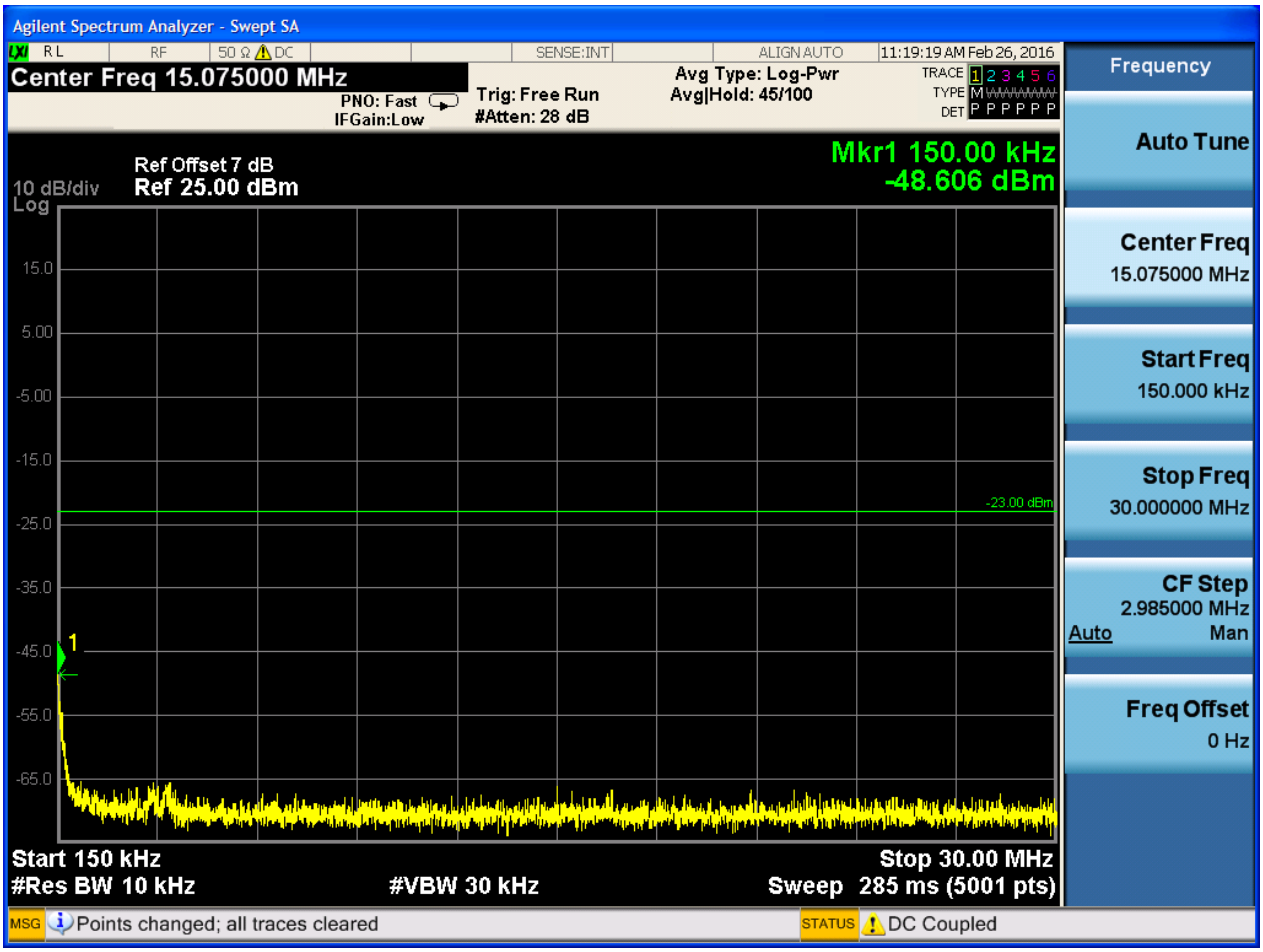

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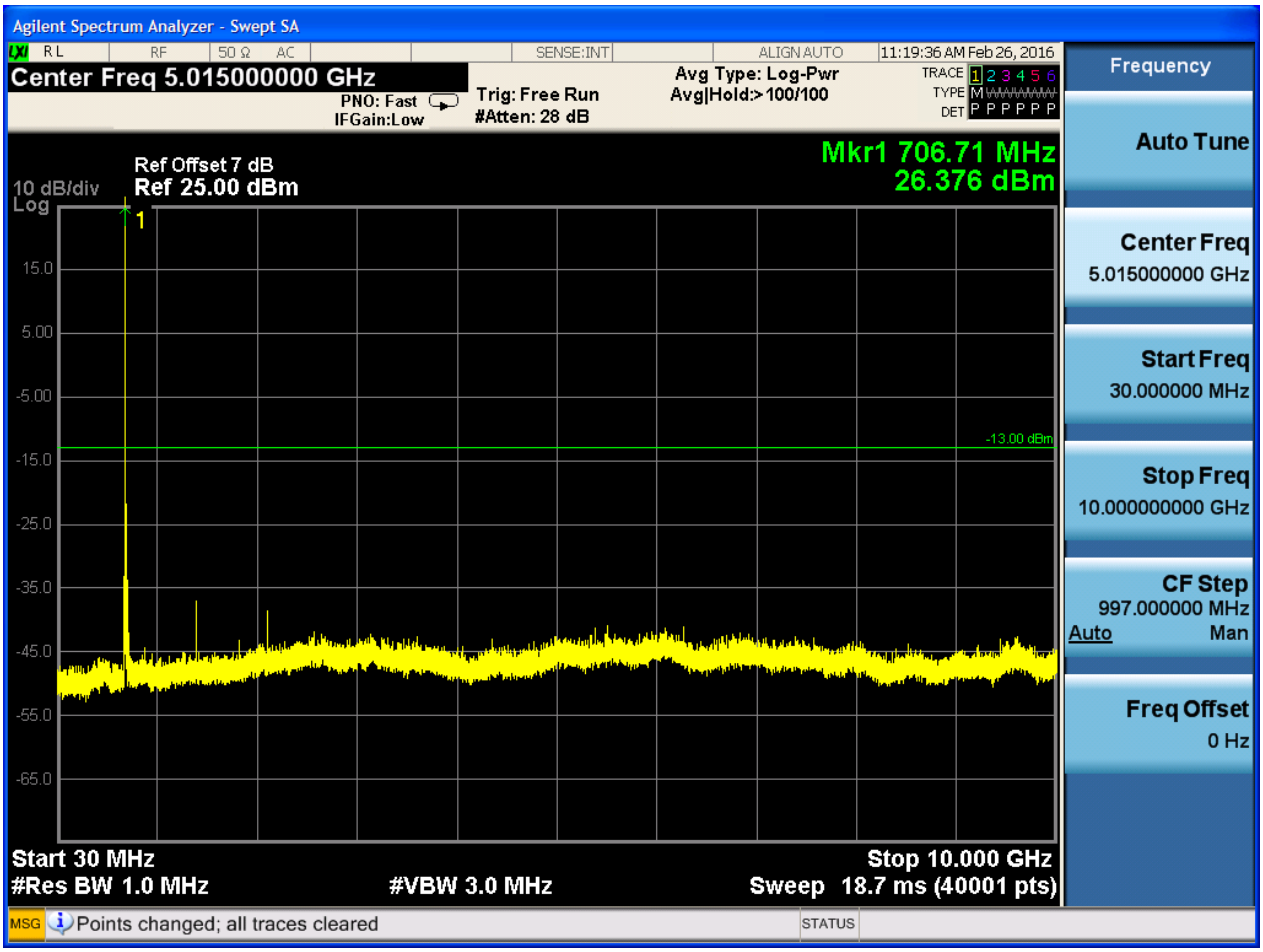

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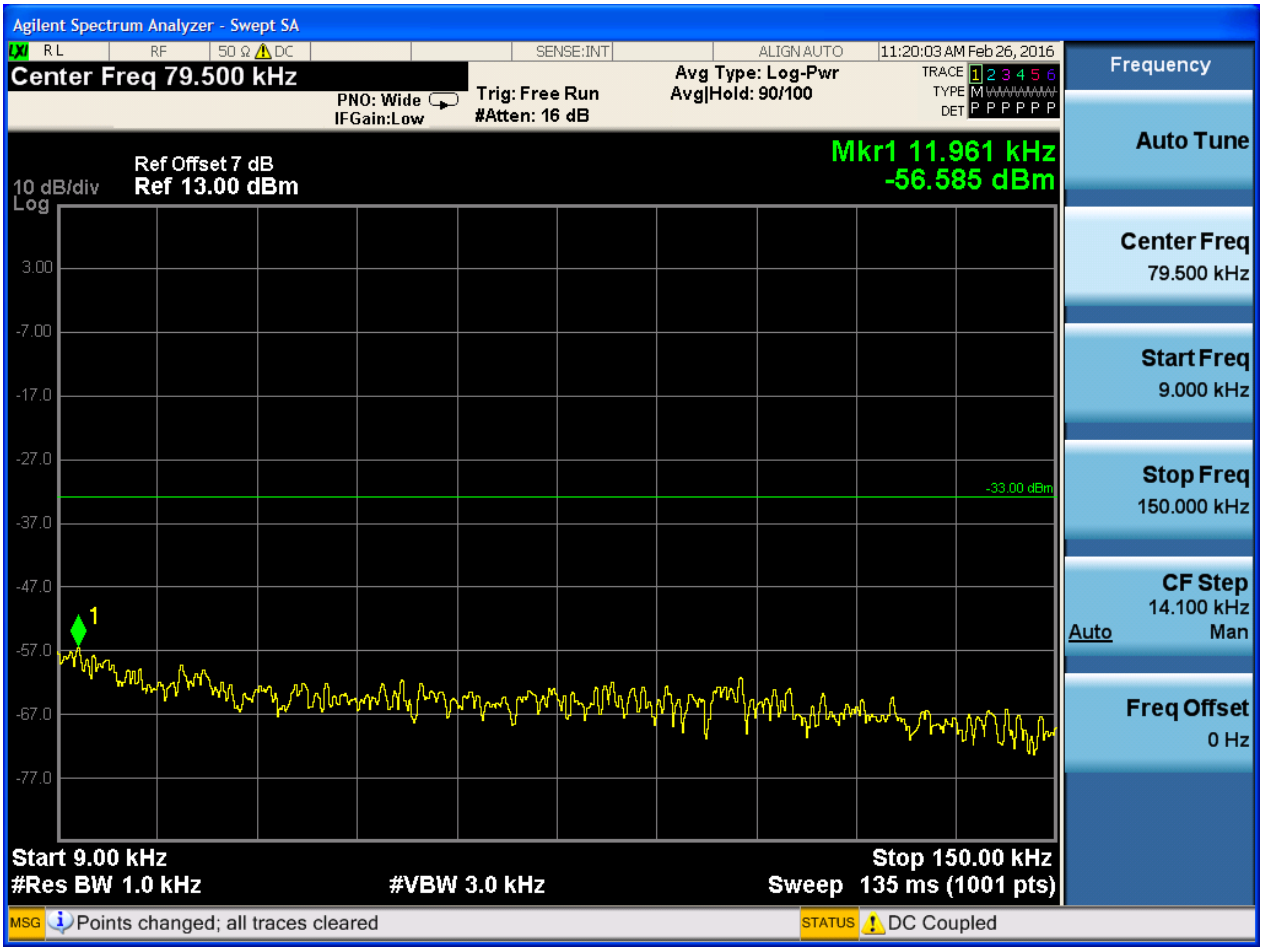
6.1.2.2 Test Mode = LTE/TM2

6.1.2.2.1 Test Bandwidth = 5

6.1.2.2.1.1 Test Channel = LCH

6.1.2.2.1.1.1 Test RB = RB1#0



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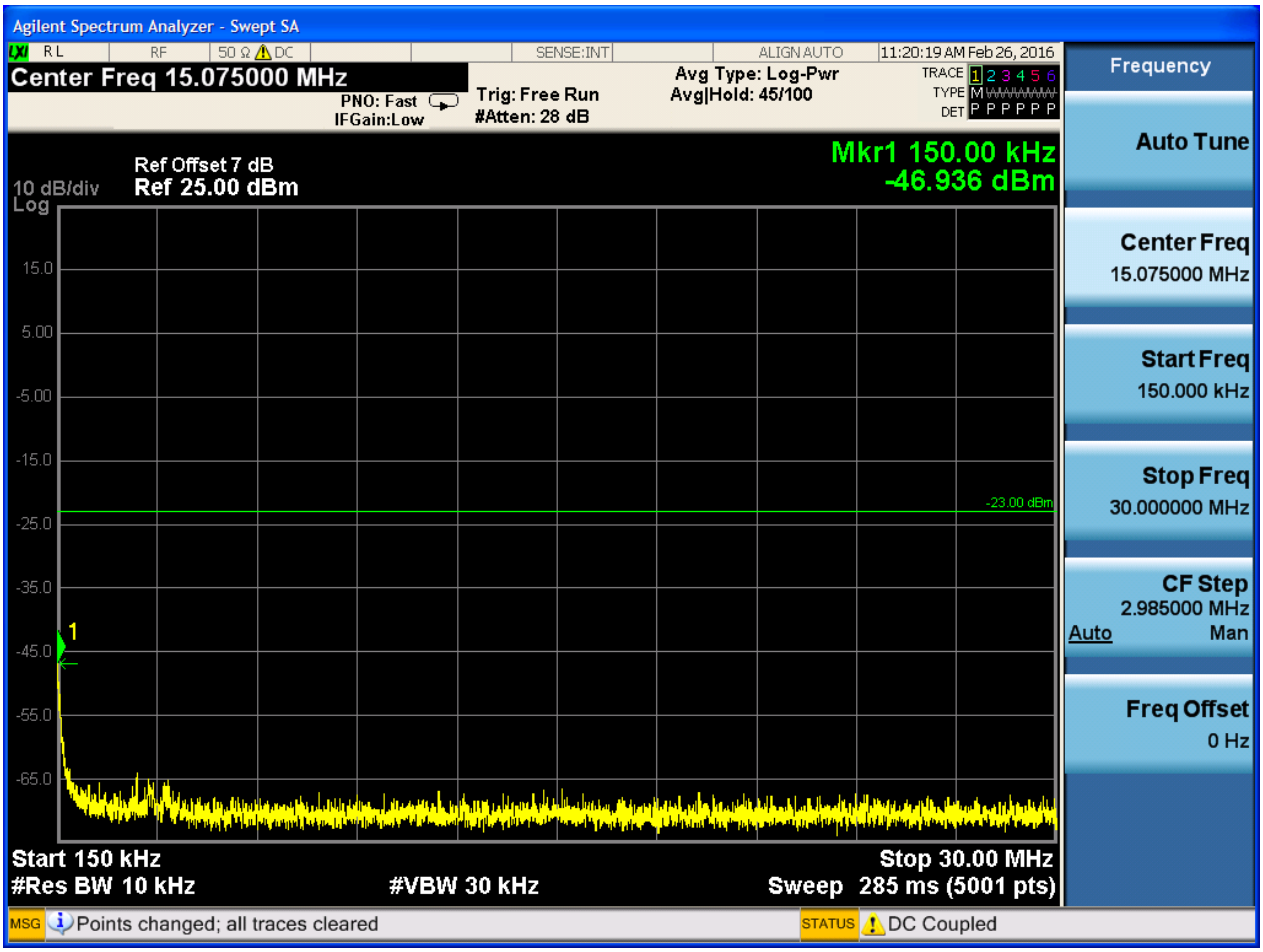

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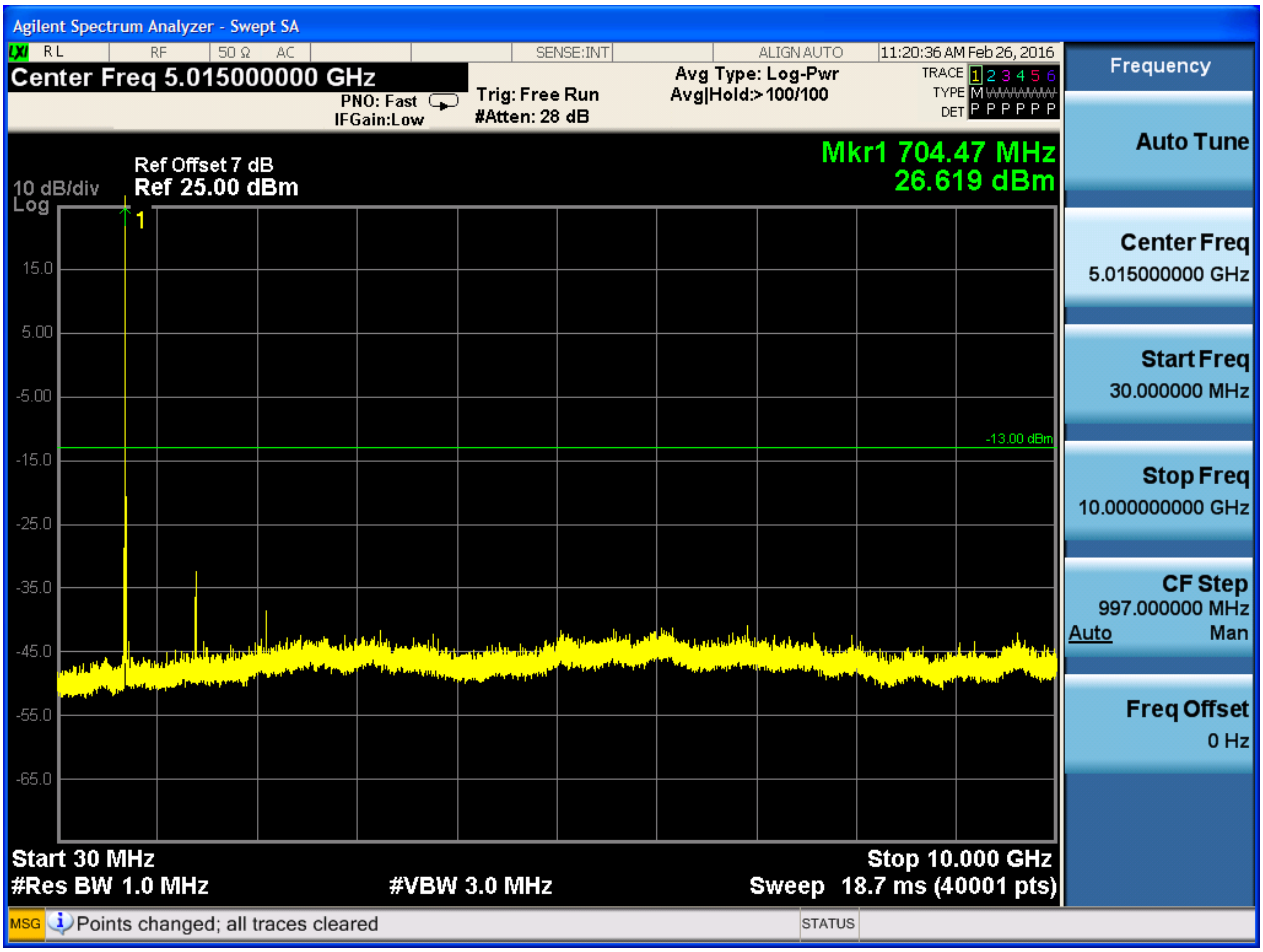

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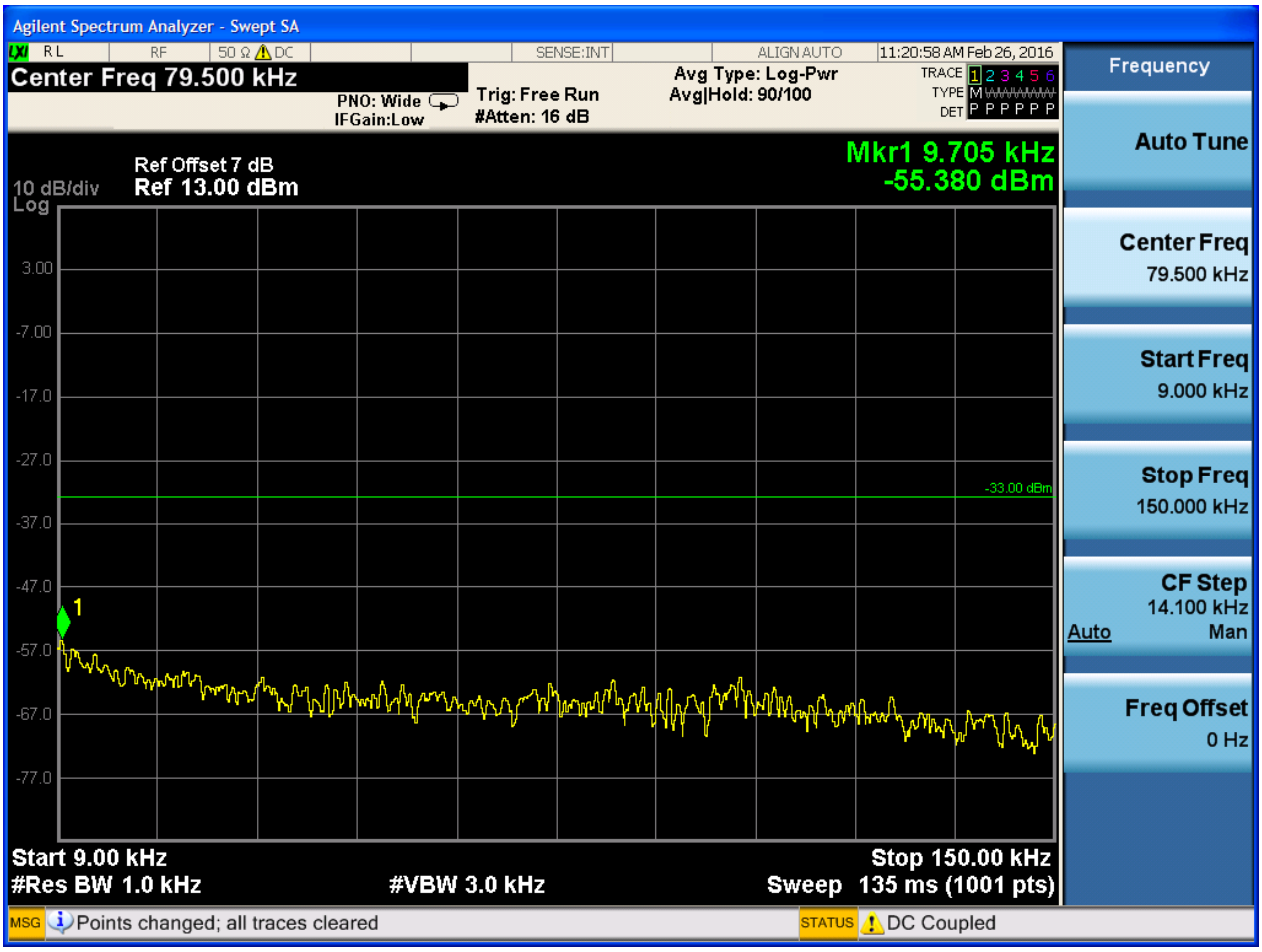
6.1.2.2.1.2 Test Channel = MCH

6.1.2.2.1.2.1 Test RB = RB1#0



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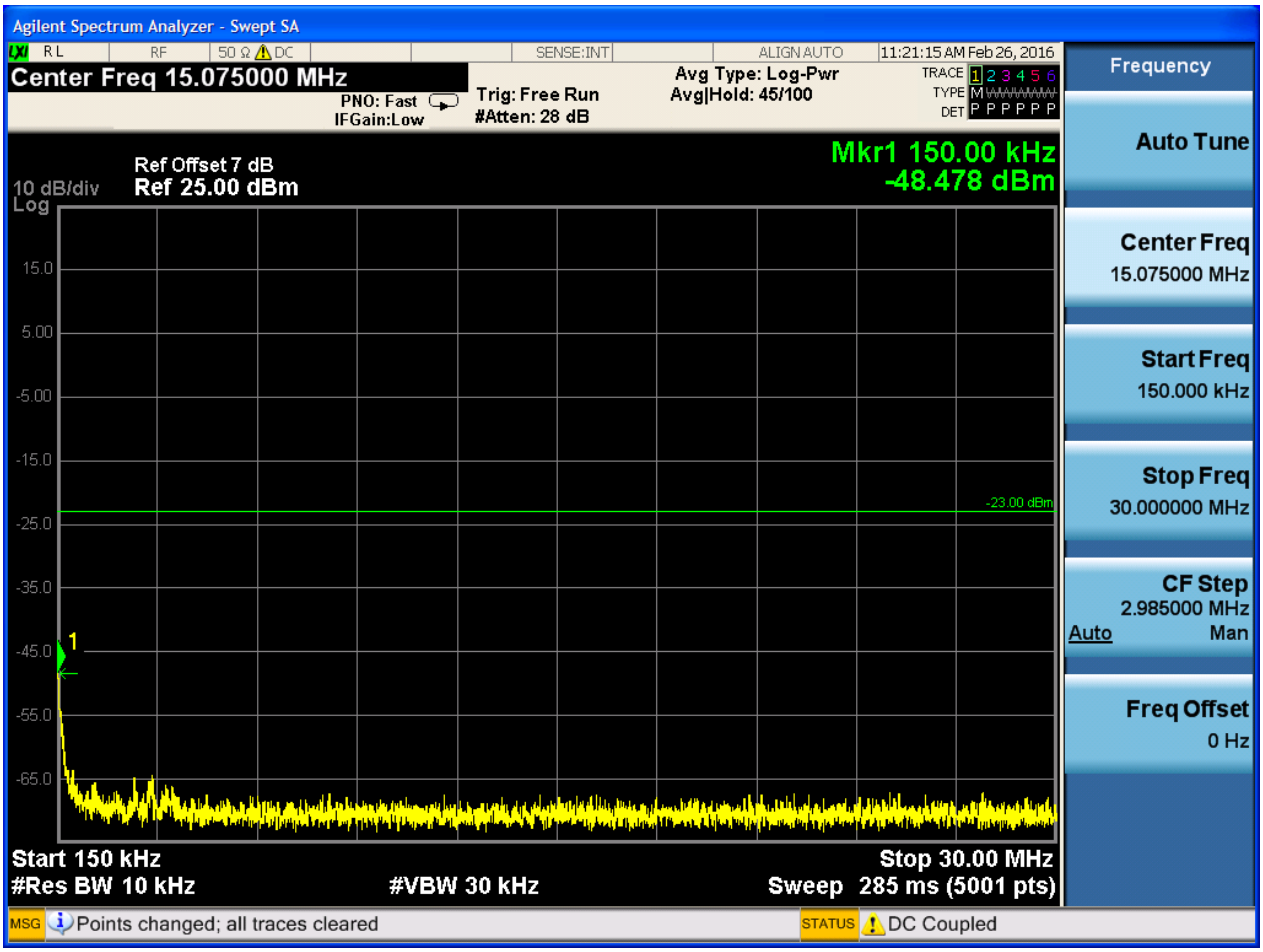

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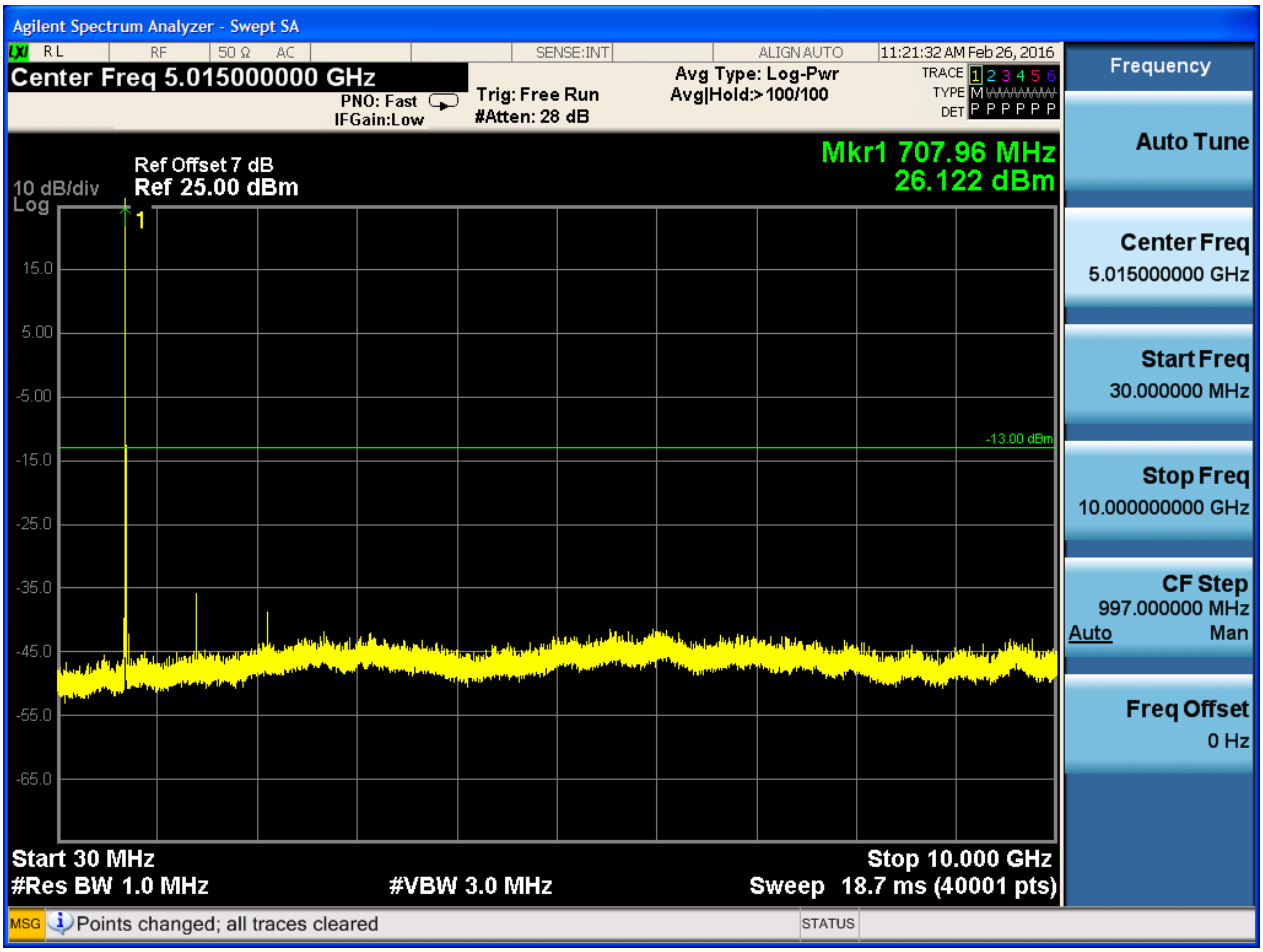

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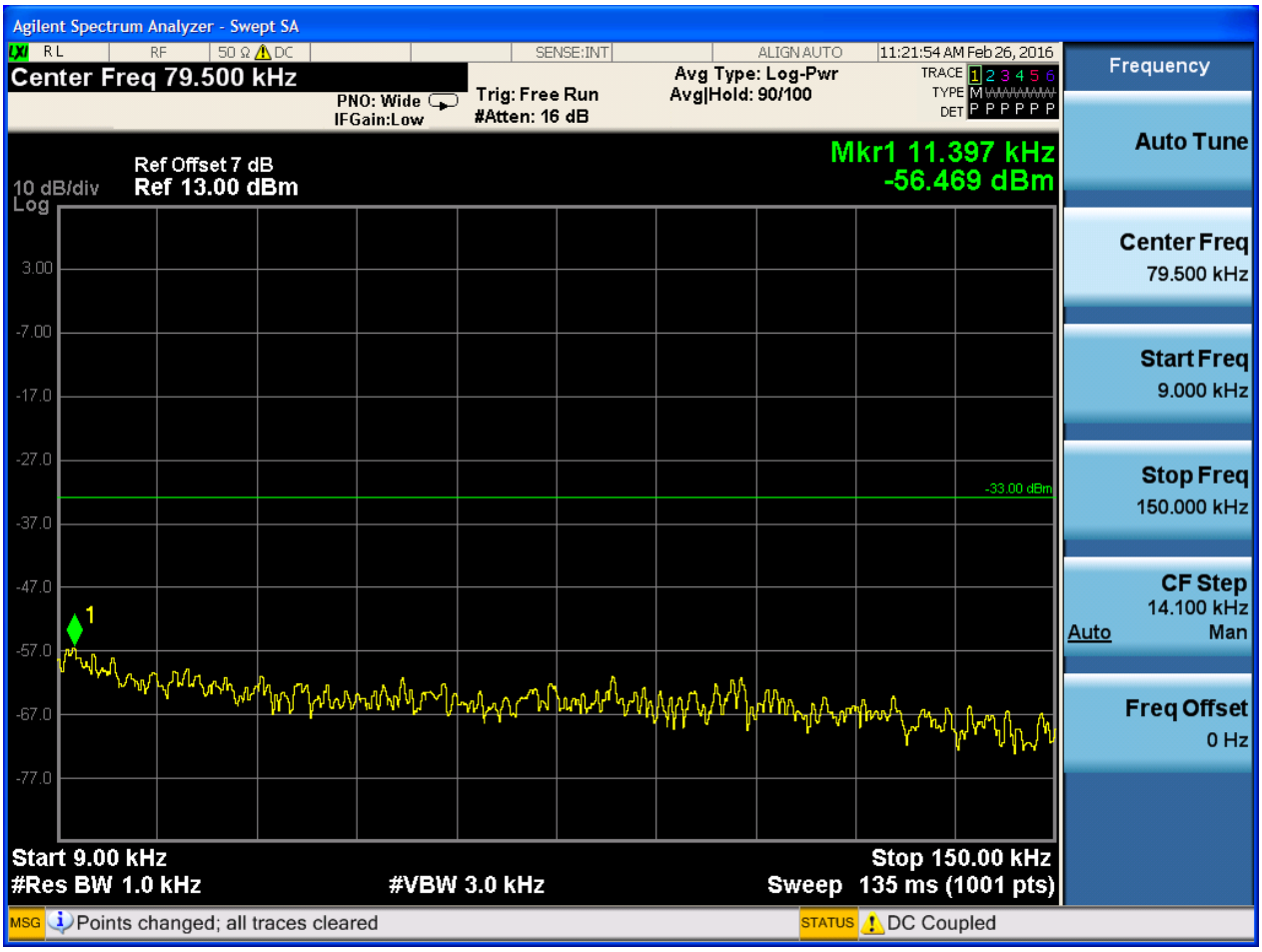
6.1.2.2.1.3 Test Channel = HCH

6.1.2.2.1.3.1 Test RB = RB1#0



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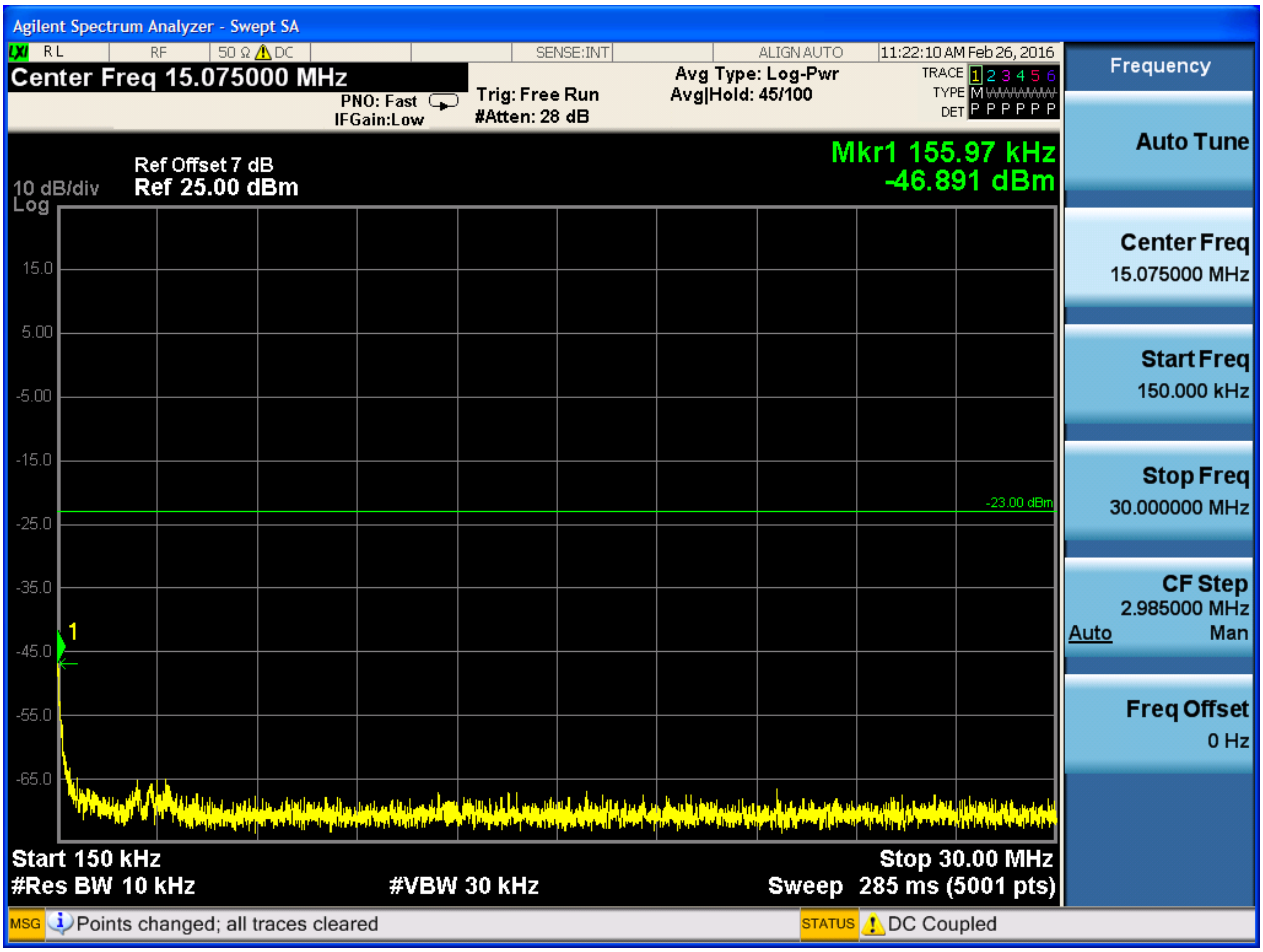

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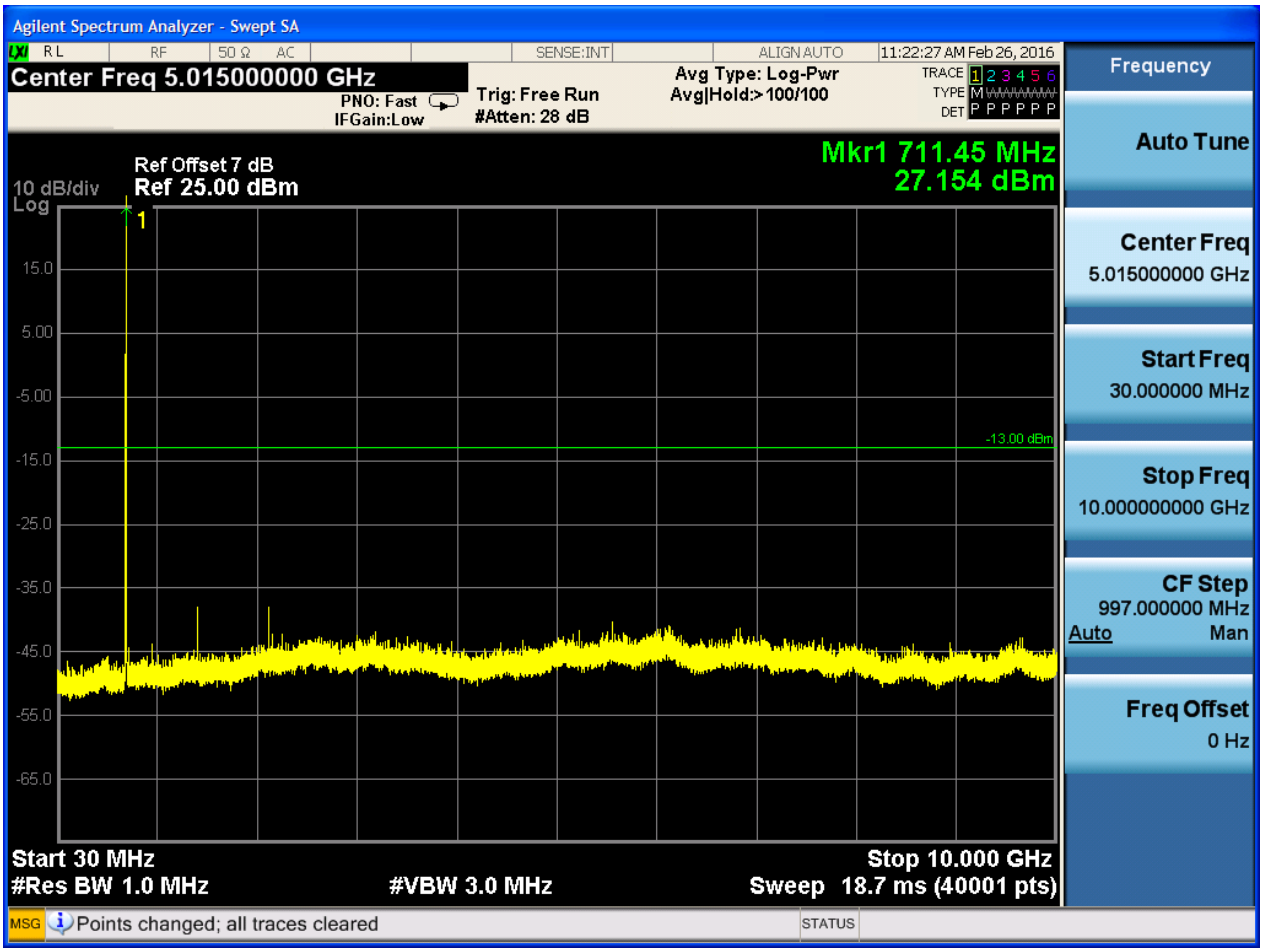

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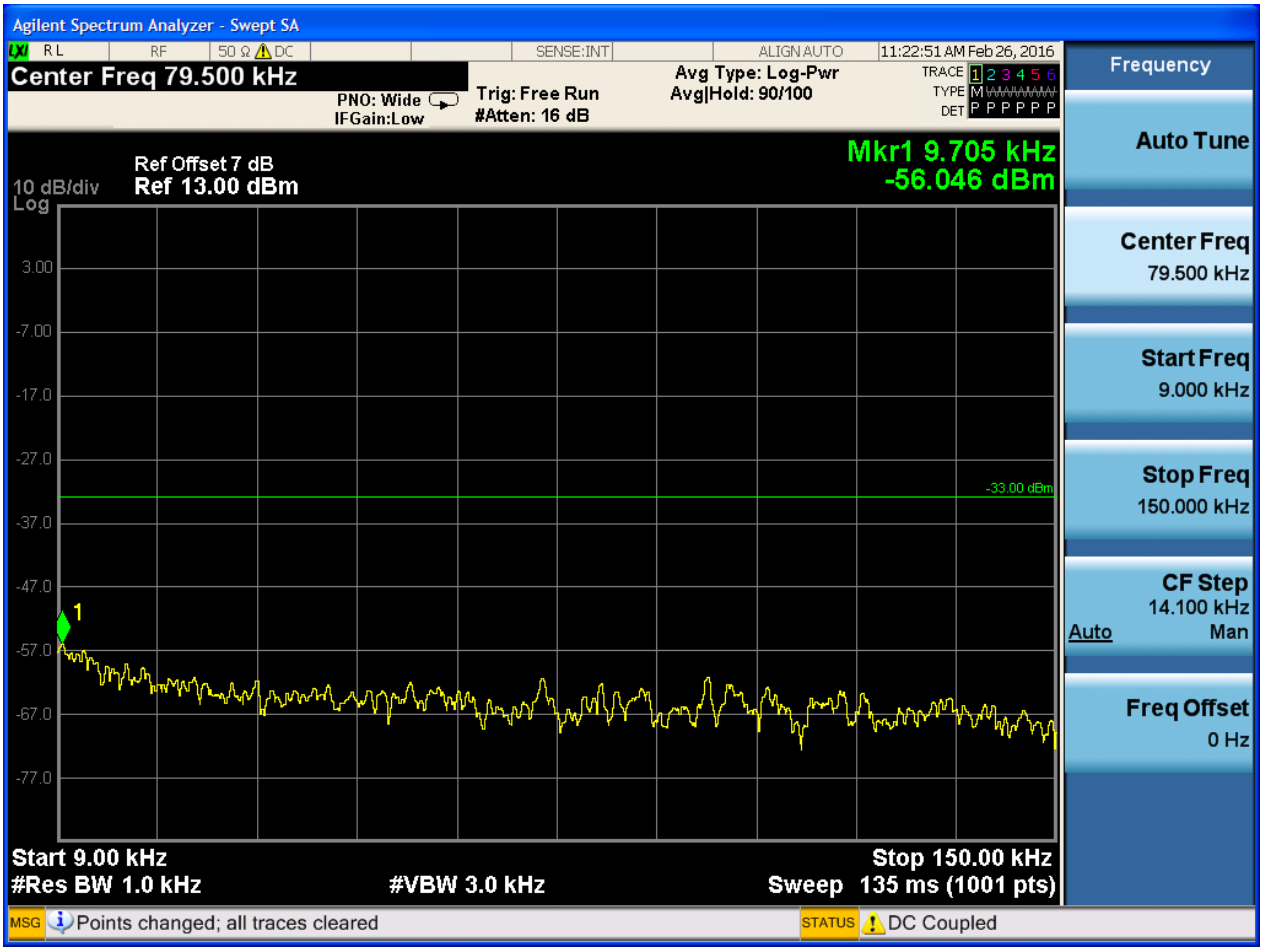
6.1.2.2.2 Test Bandwidth = 10

6.1.2.2.2.1 Test Channel = LCH

6.1.2.2.2.1.1 Test RB = RB1#0



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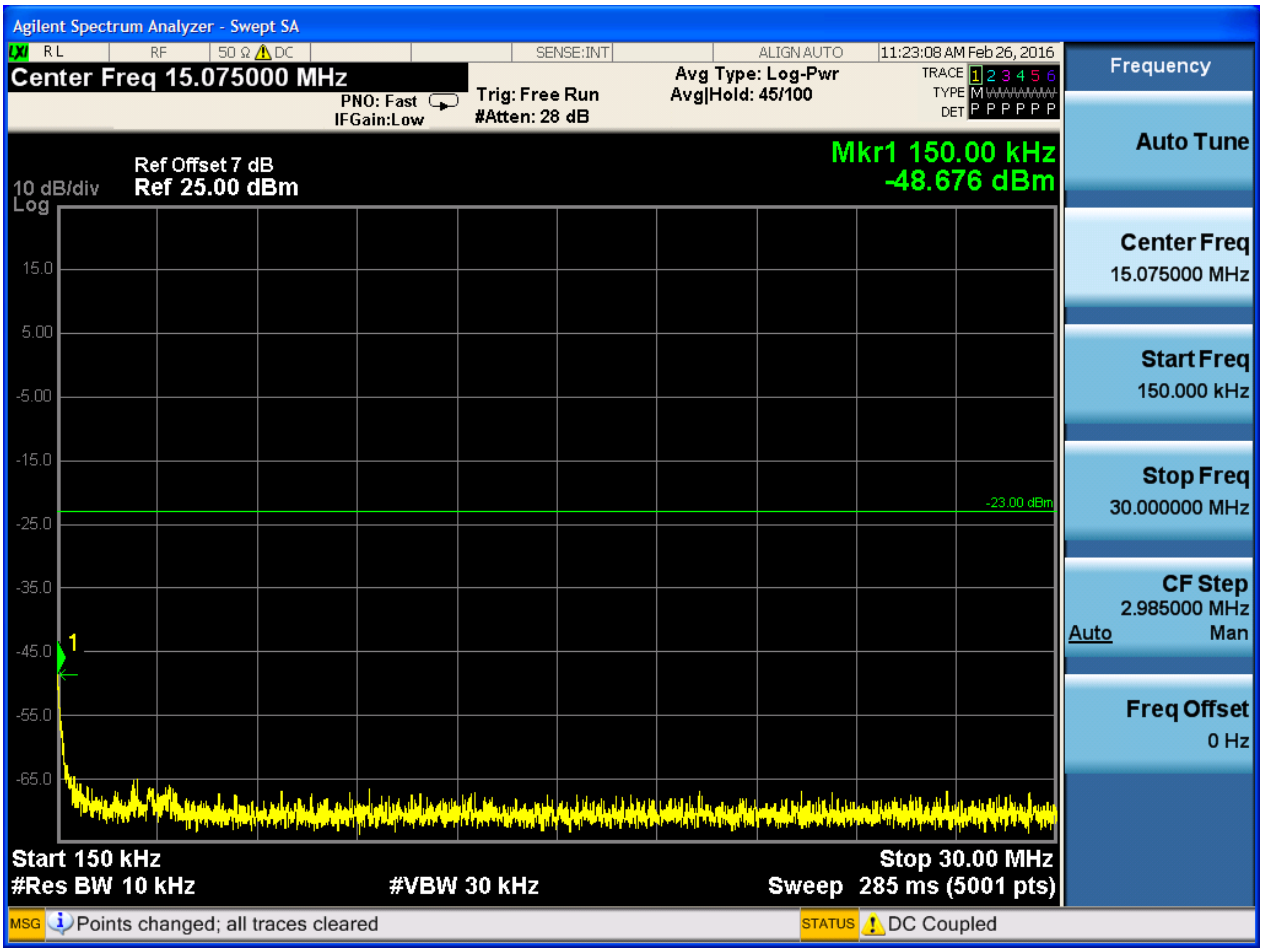

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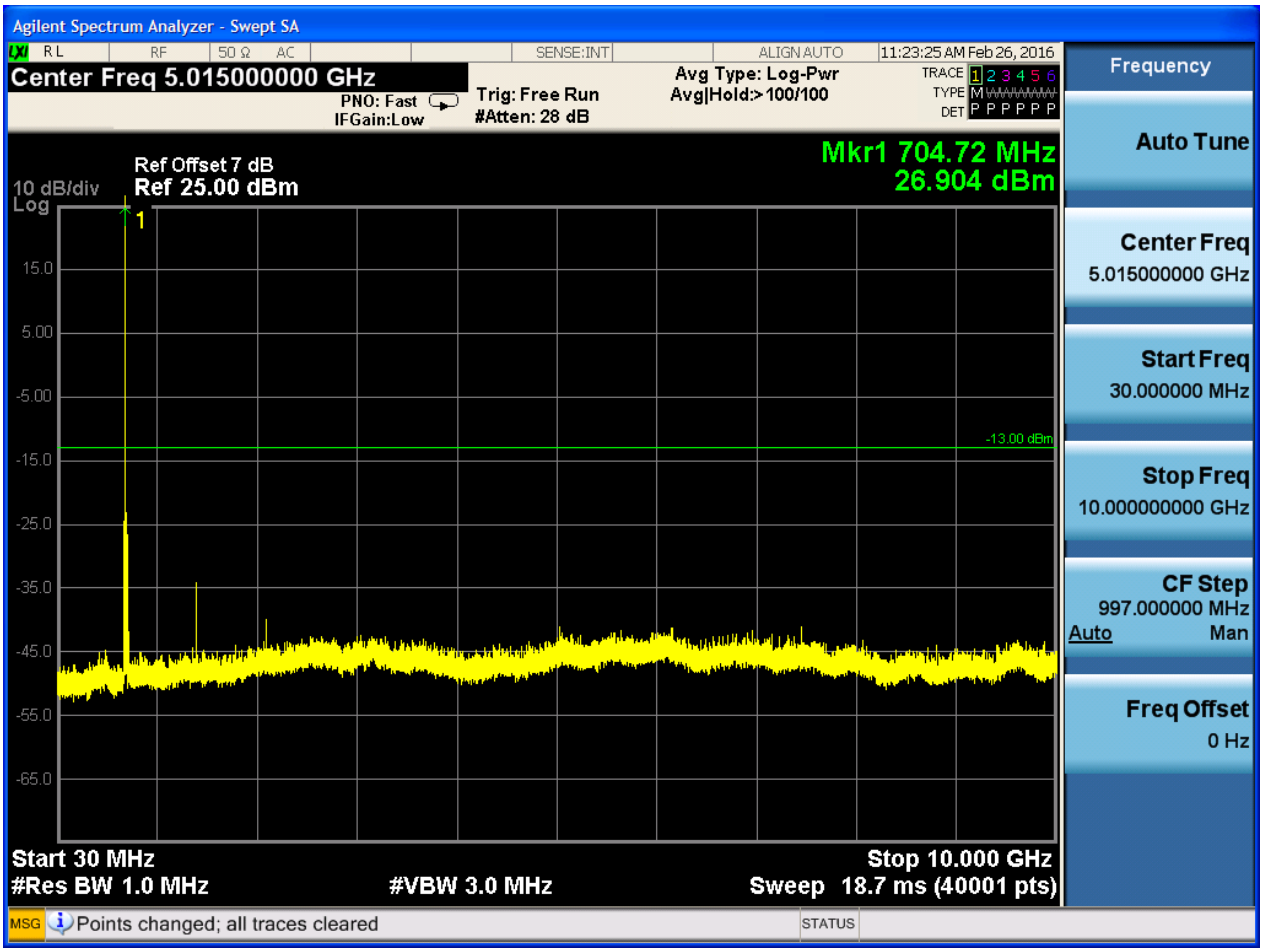

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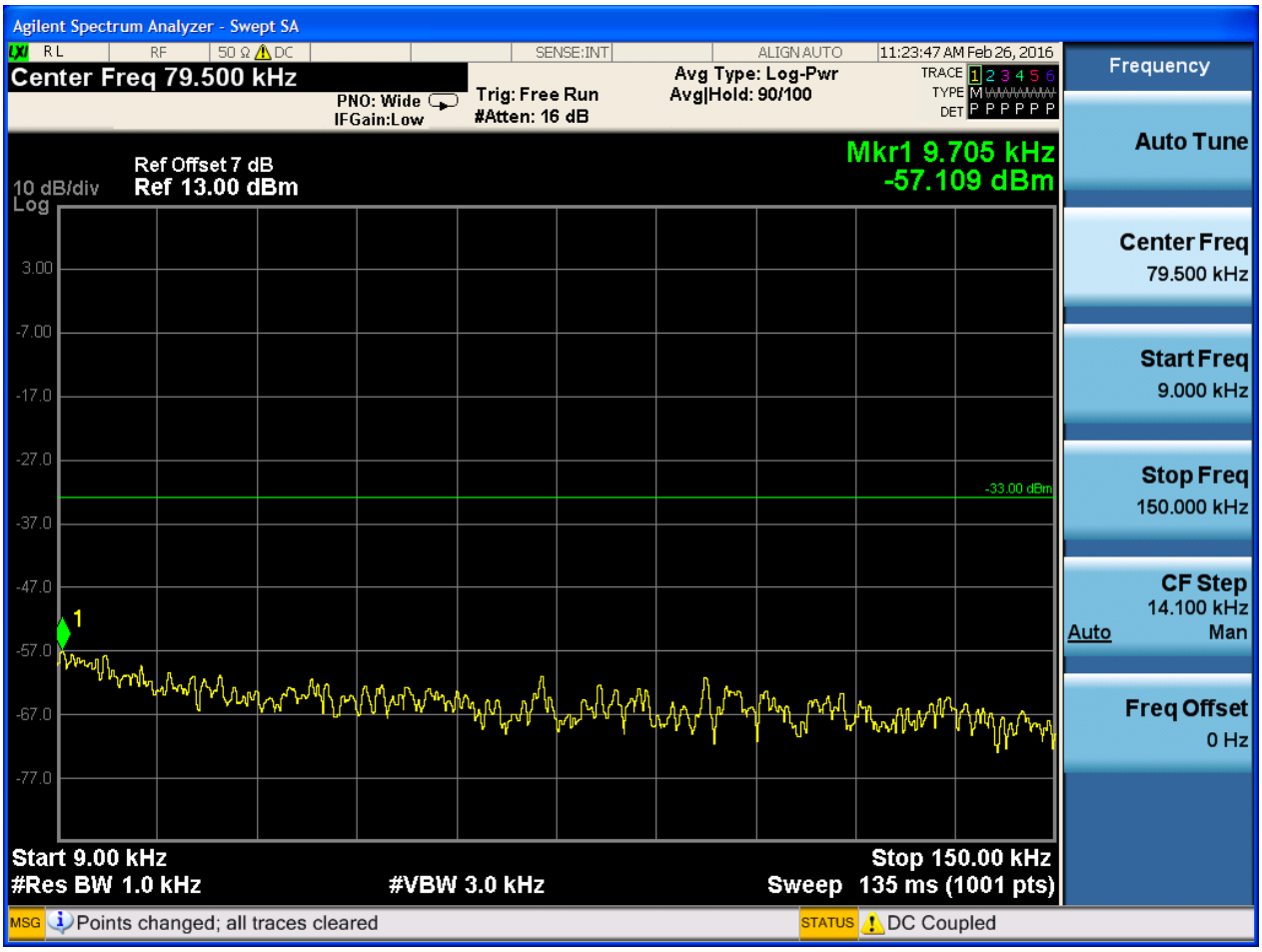
6.1.2.2.2 Test Channel = MCH

6.1.2.2.2.1 Test RB = RB1#0



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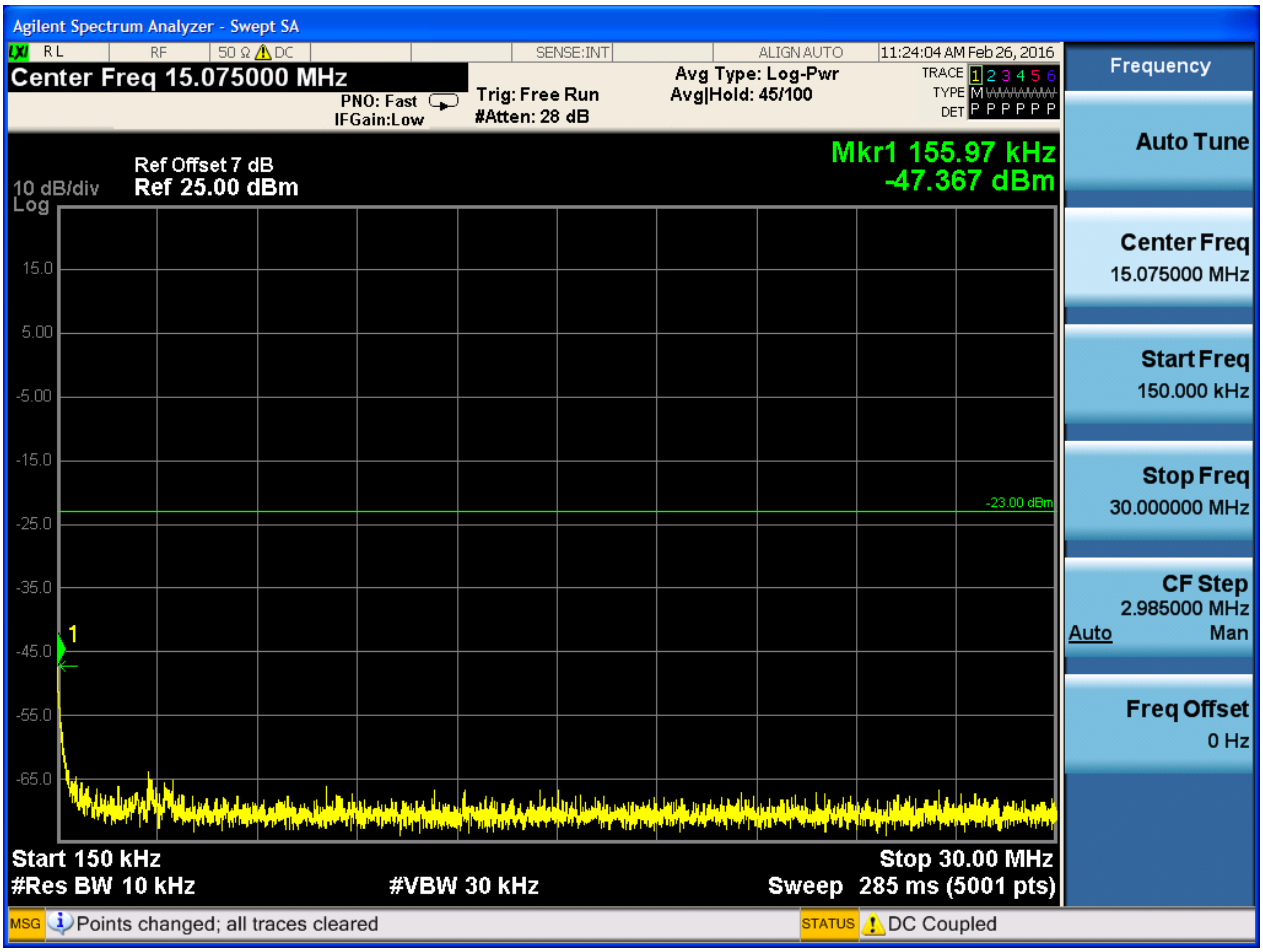

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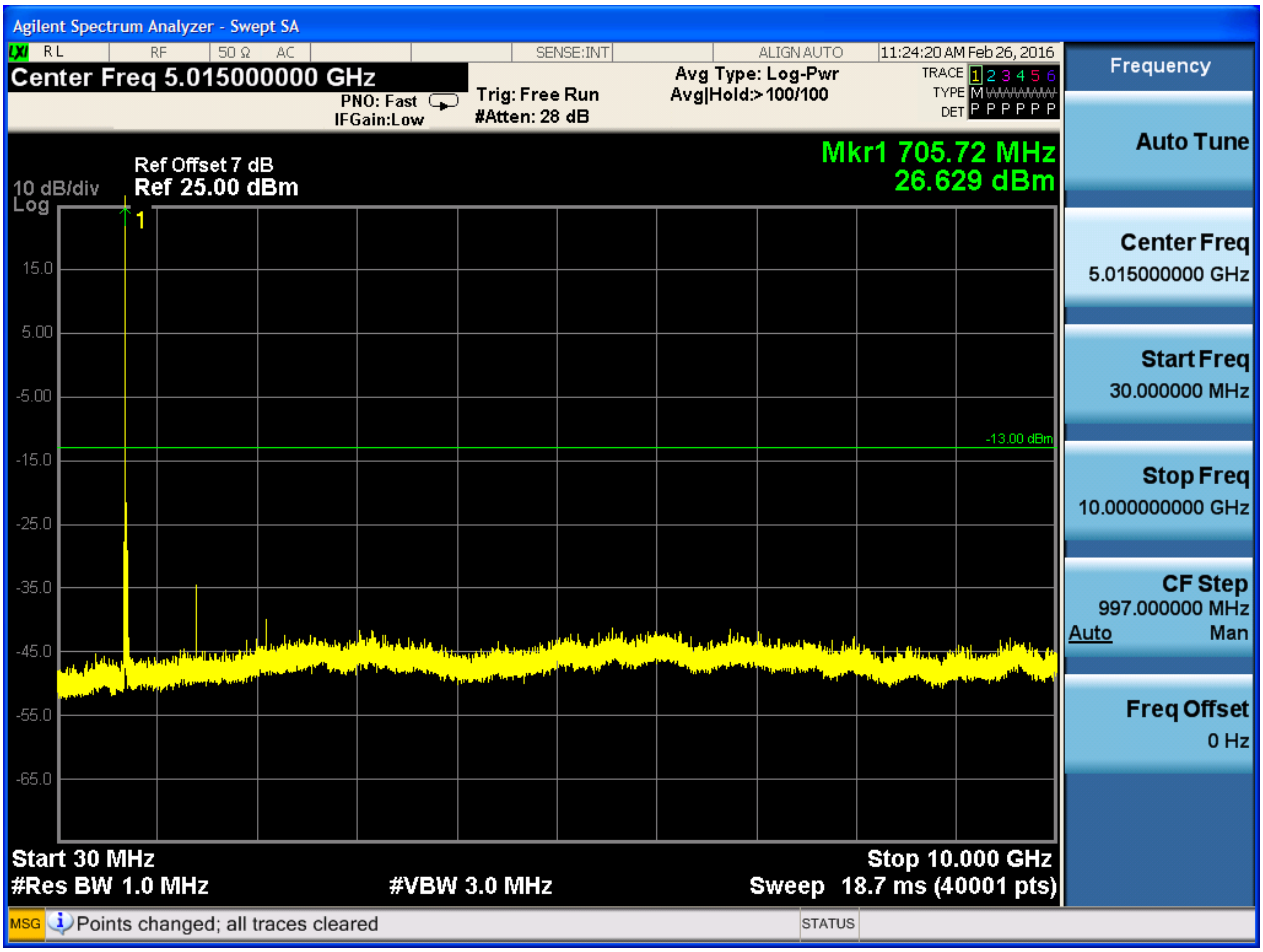

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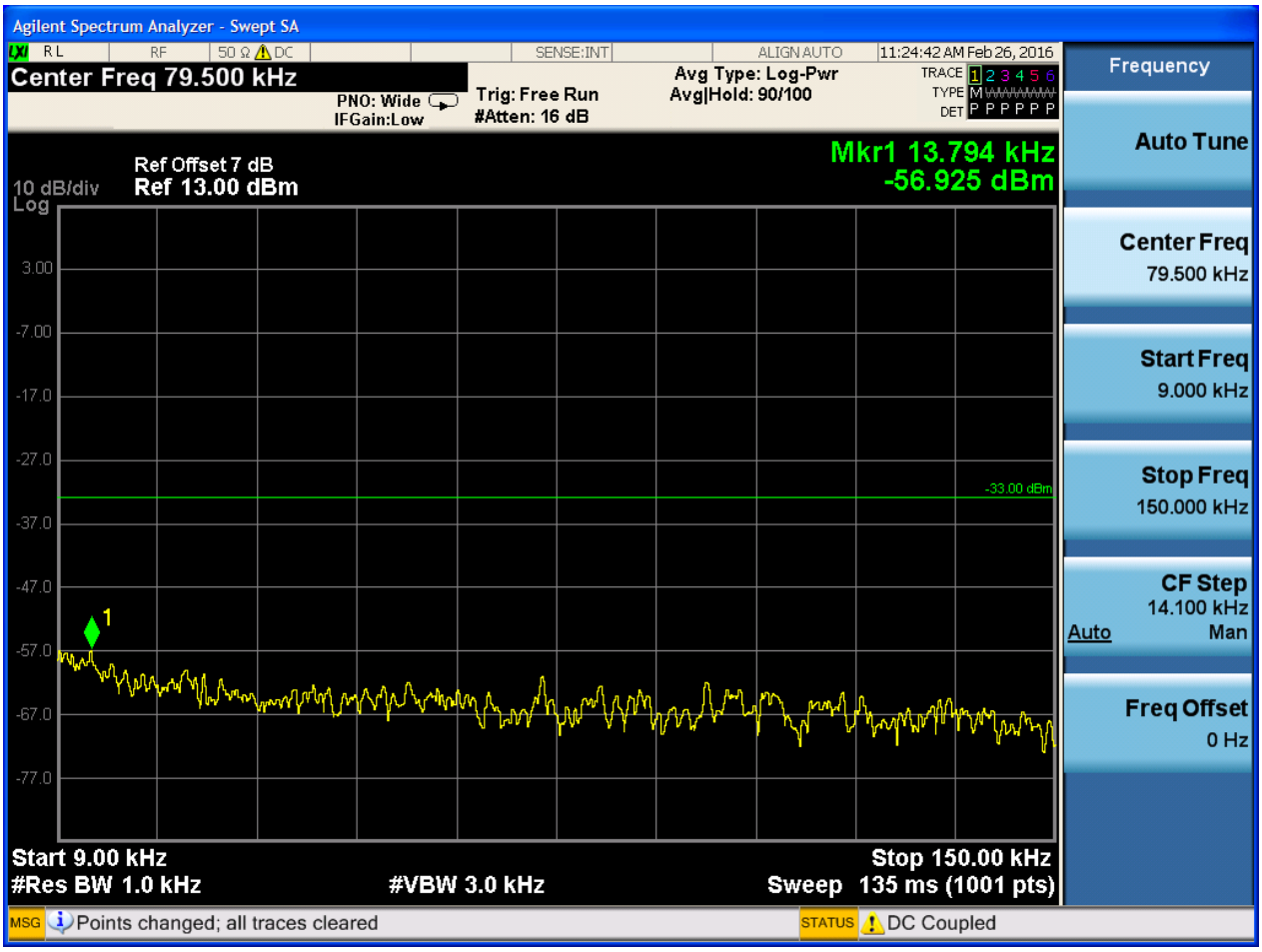
6.1.2.2.2.3 Test Channel = HCH

6.1.2.2.2.3.1 Test RB = RB1#0



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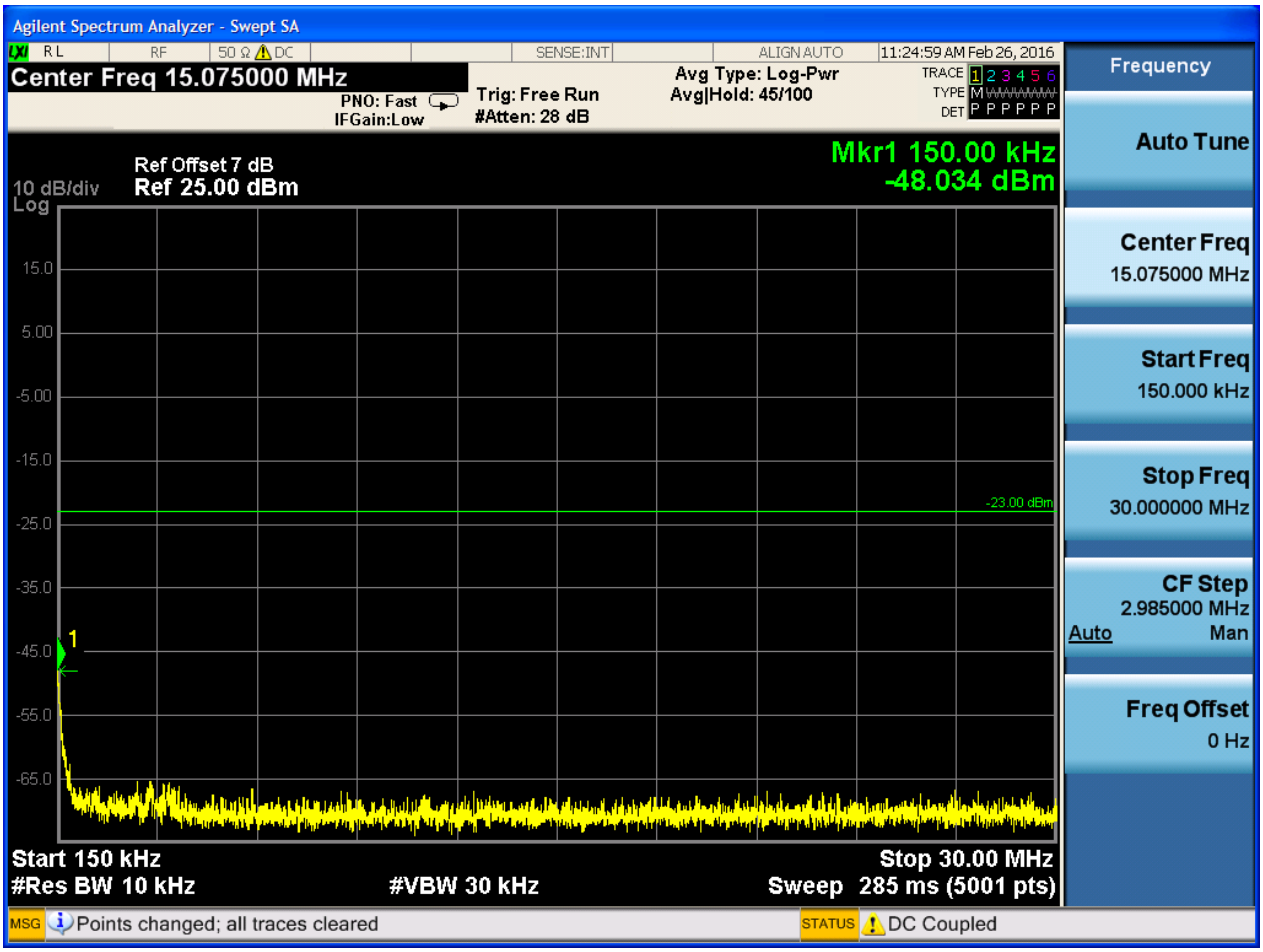

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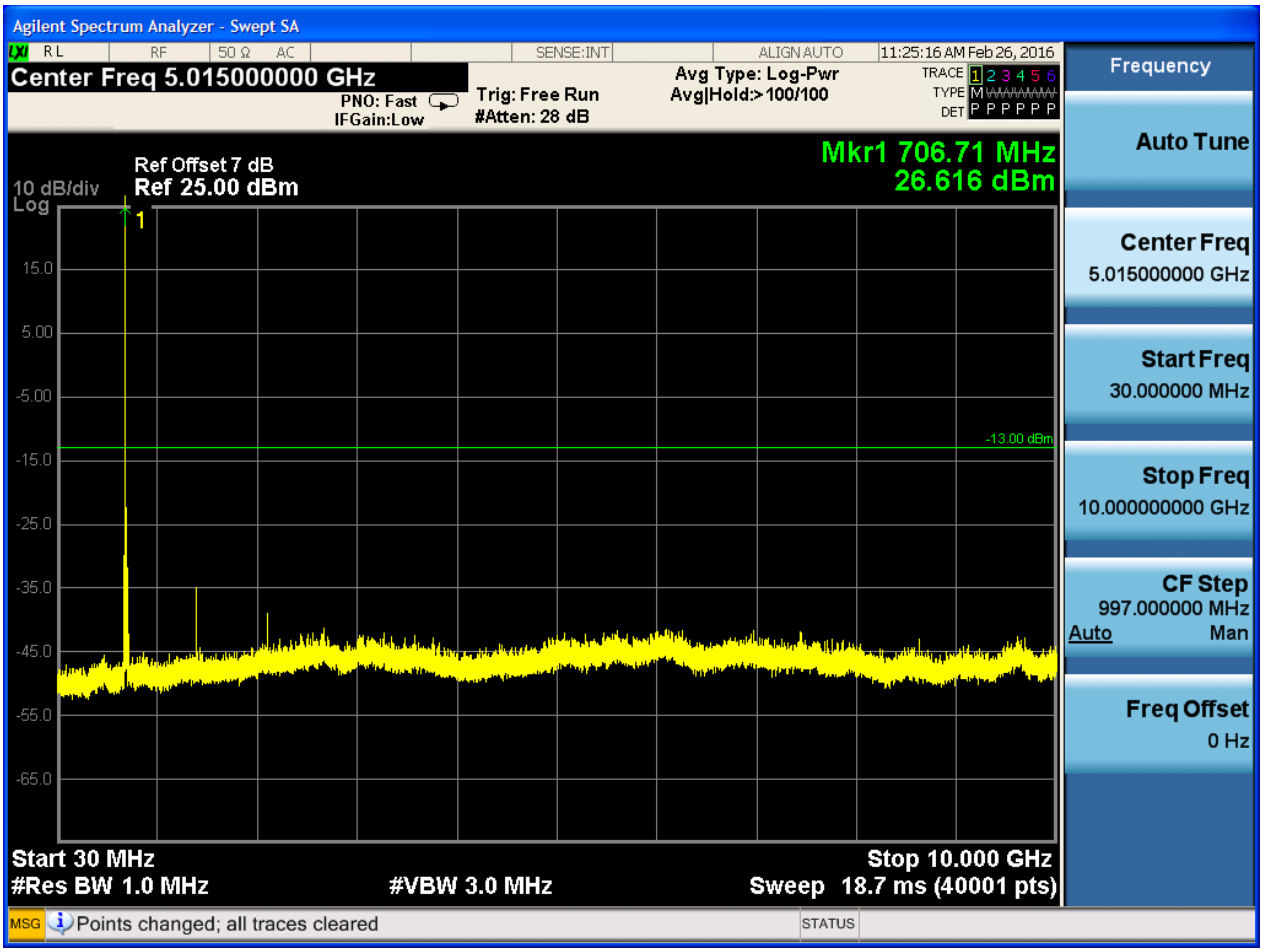

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7Appendix_G: Field Strength of Spurious Radiation

Note:

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

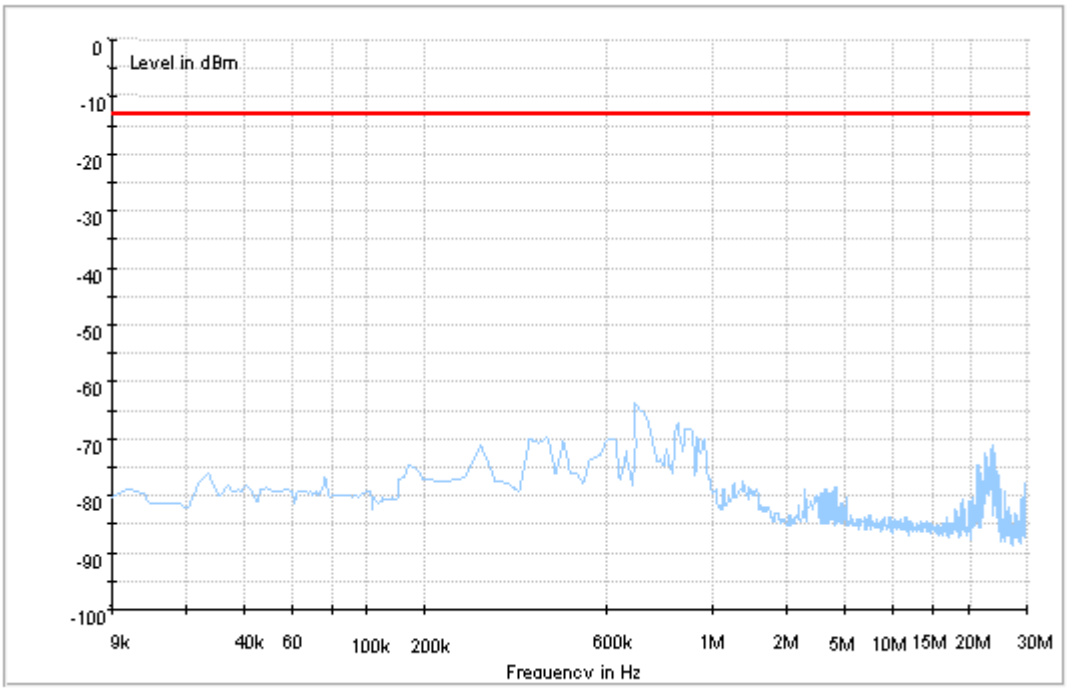
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Part I - Test Plots

7.1 For LTE

7.1.1 Test Band = BAND13

7.1.1.1 Test Bandwidth = 5



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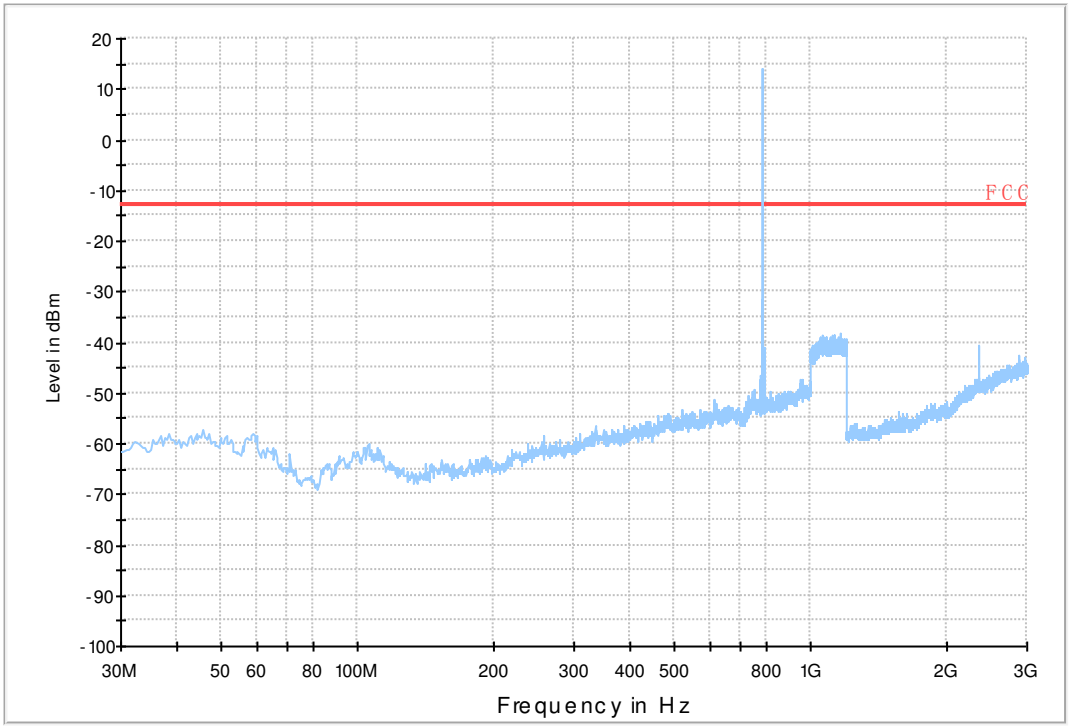
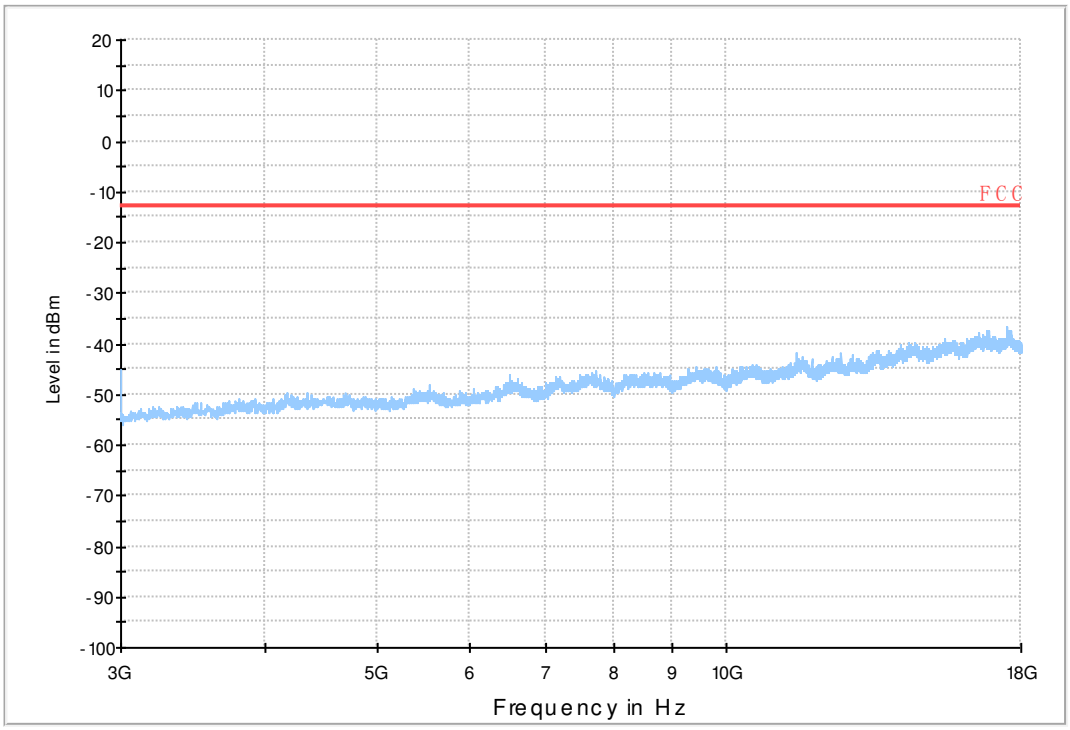
Copy of RSE-TX-DIRECTOR BELOW 1G_L



Copy of RSE-TX-DIRECTOR BELOW 1G_H



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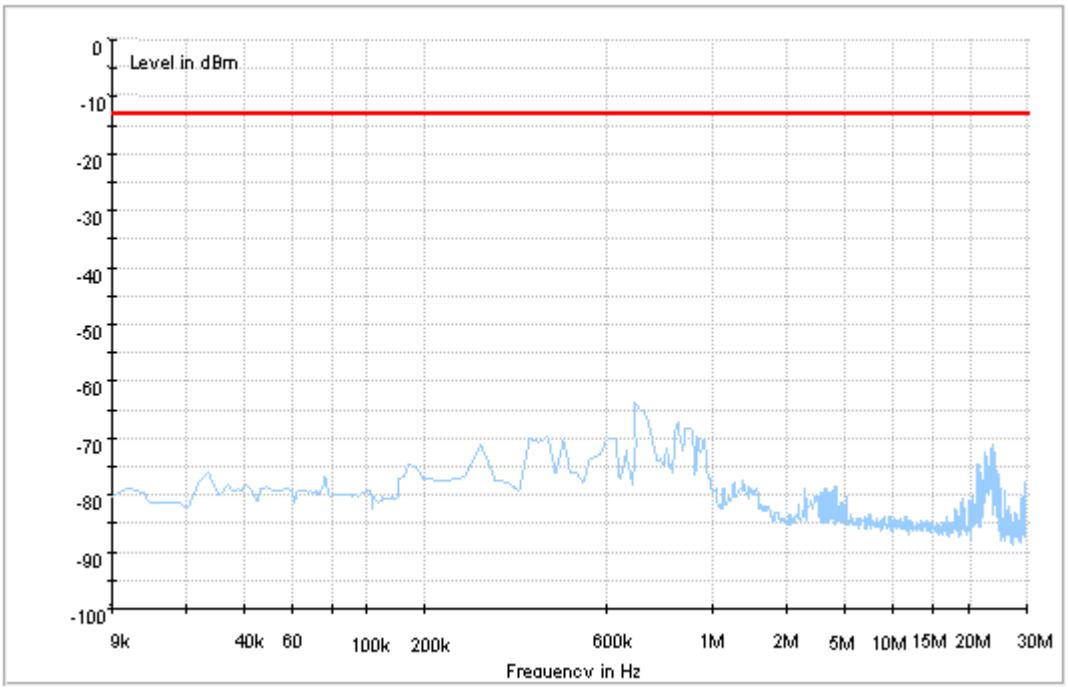
7.1.1.2 Test Bandwidth = 10



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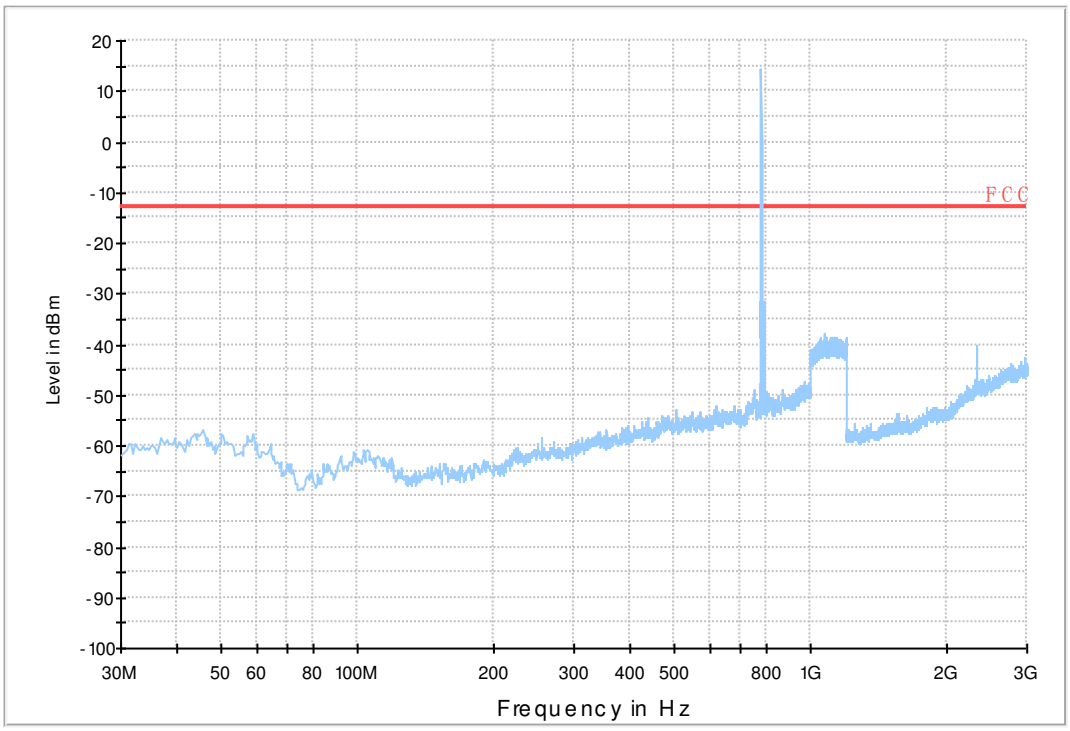

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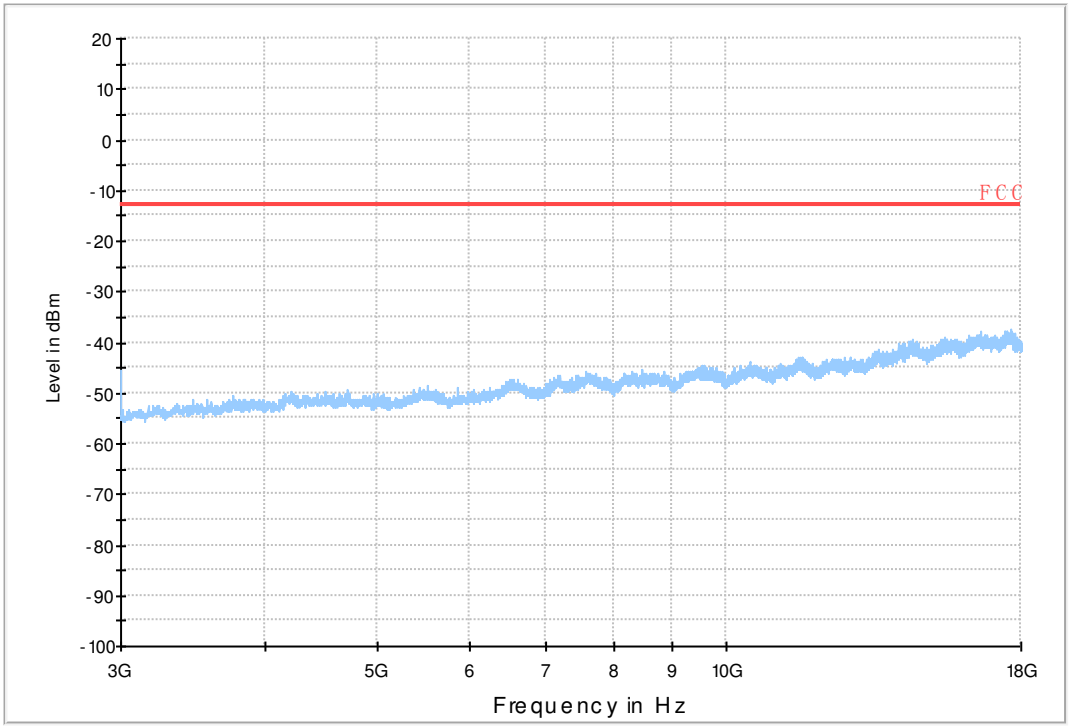

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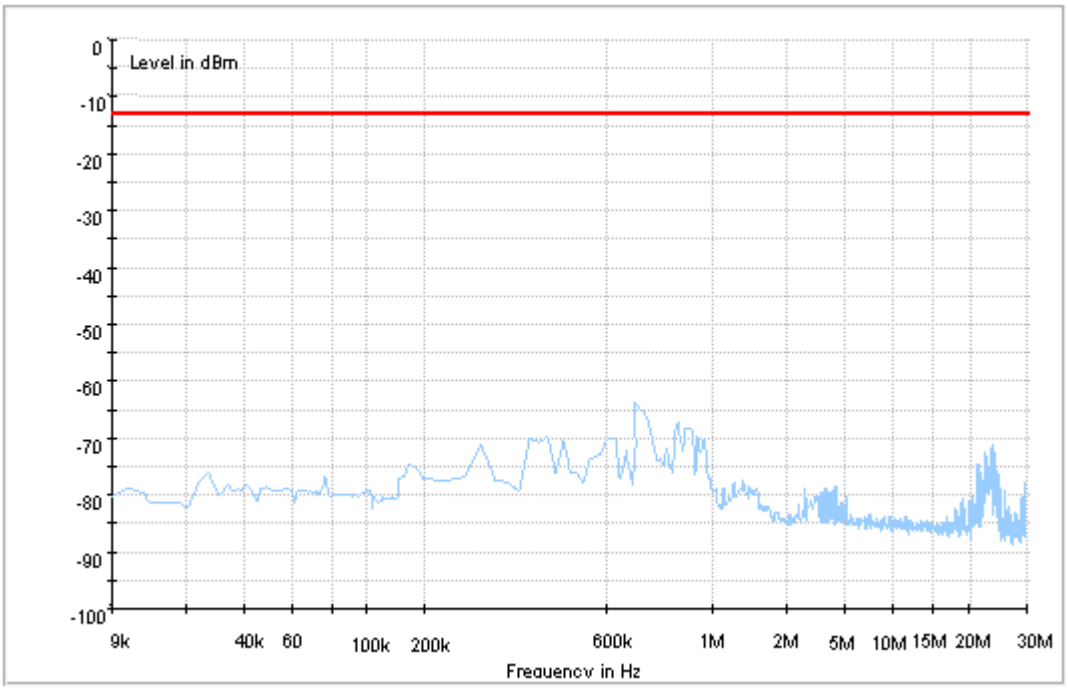
7.1.2 Test Band = BAND17

7.1.2.1 Test Bandwidth = 5



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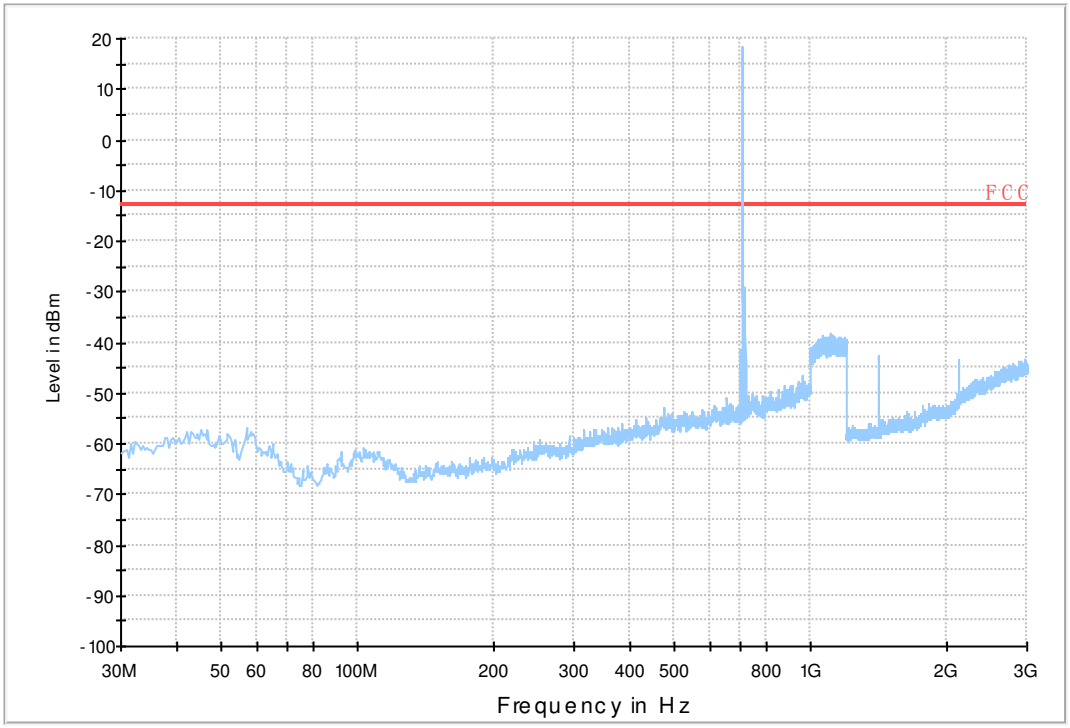

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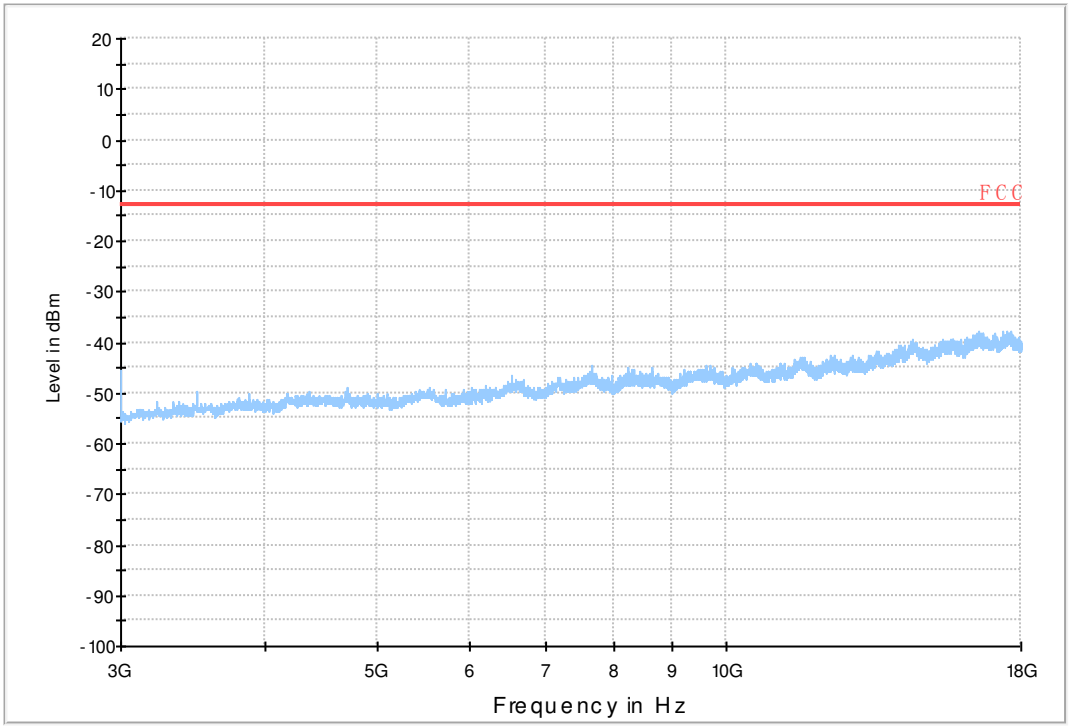

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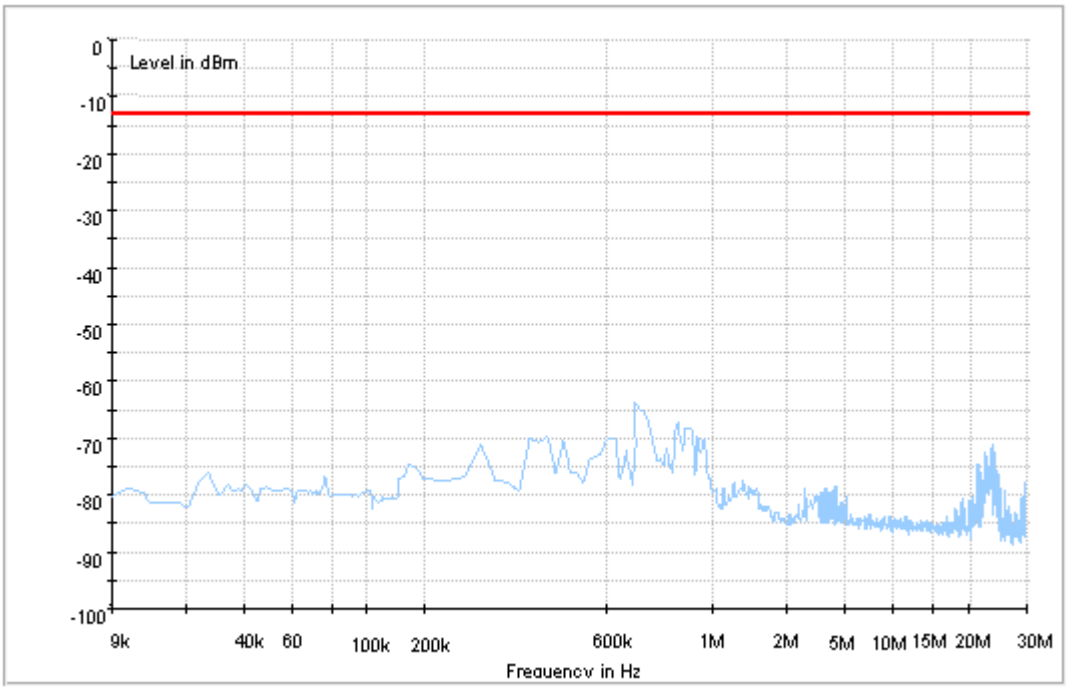
7.1.2.2 Test Bandwidth = 10



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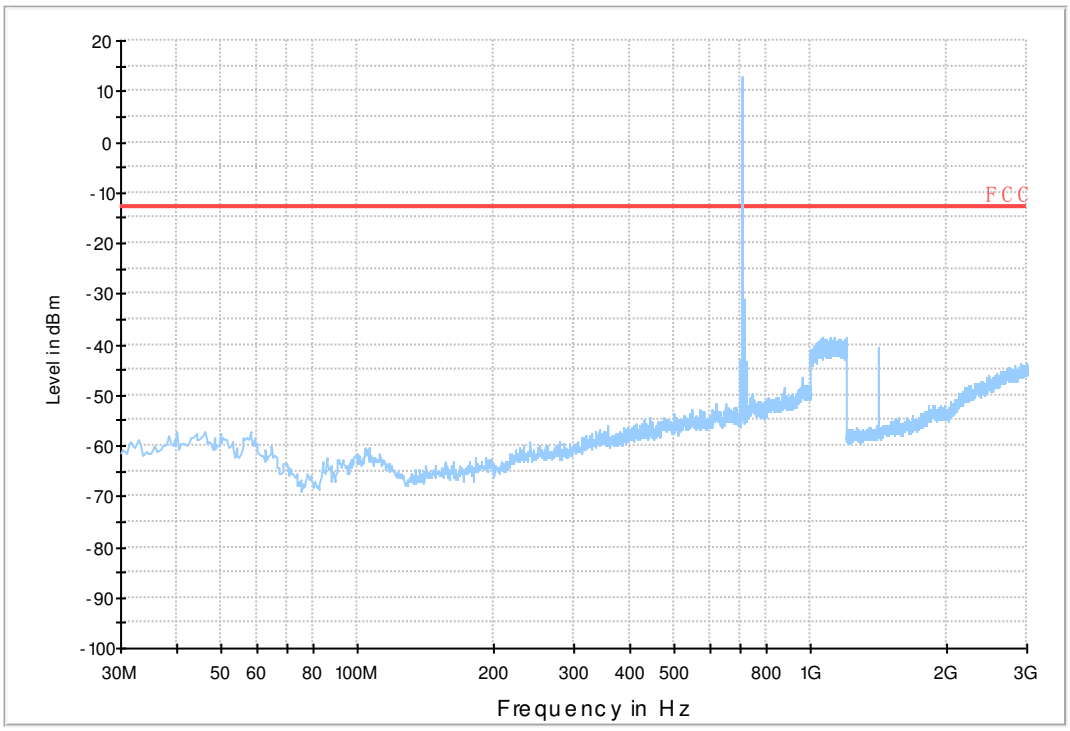

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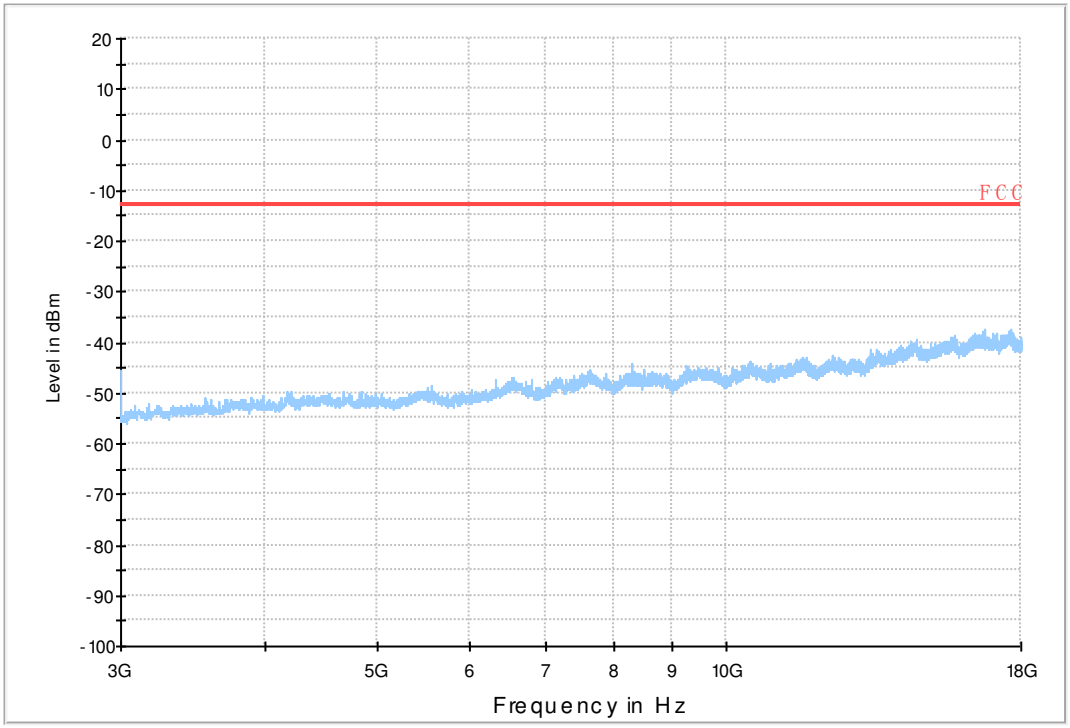

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8Appendix_H: Frequency Stability

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
BAND13	LTE/TM1	5	LCH	TN	VL	1.96	0.00251	PASS
					VN	-0.94	-0.00121	PASS
					VH	4.82	0.00618	PASS
			MCH	TN	VL	5.19	0.00664	PASS
					VN	-0.99	-0.00127	PASS
					VH	3.71	0.00474	PASS
			HCH	TN	VL	2.82	0.00359	PASS
					VN	-0.56	-0.00071	PASS
					VH	3.78	0.00482	PASS
		10	LCH	TN	VL	-2.35	-0.00301	PASS
					VN	-9.41	-0.01203	PASS
					VH	-6.21	-0.00794	PASS
			MCH	TN	VL	-5.51	-0.00705	PASS
					VN	0.30	0.00038	PASS
					VH	-5.65	-0.00723	PASS
			HCH	TN	VL	-5.62	-0.00719	PASS
					VN	-4.76	-0.00609	PASS
					VH	-9.90	-0.01266	PASS
	LTE/TM2	5	LCH	TN	VL	3.93	0.00504	PASS
					VN	0.06	0.00008	PASS
					VH	3.09	0.00396	PASS
			MCH	TN	VL	4.25	0.00543	PASS
					VN	0.33	0.00042	PASS
					VH	-1.86	-0.00238	PASS
			HCH	TN	VL	-1.77	-0.00226	PASS
					VN	2.66	0.00339	PASS
					VH	-2.20	-0.0028	PASS
		10	LCH	TN	VL	-0.16	-0.0002	PASS
					VN	-0.87	-0.00111	PASS
					VH	-1.10	-0.00141	PASS
			MCH	TN	VL	2.27	0.0029	PASS

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Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					VN	1.82	0.00233	PASS
					VH	1.29	0.00165	PASS
			HCH	TN	VL	2.63	0.00336	PASS
					VN	-0.86	-0.0011	PASS
					VH	-0.69	-0.00088	PASS
BAND17	LTE/TM1	5	LCH	TN	VL	-3.60	-0.0051	PASS
					VN	-2.88	-0.00408	PASS
					VH	-4.22	-0.00597	PASS
			MCH	TN	VL	-2.96	-0.00417	PASS
					VN	2.05	0.00289	PASS
					VH	-0.54	-0.00076	PASS
			HCH	TN	VL	-0.67	-0.00094	PASS
					VN	0.94	0.00132	PASS
					VH	1.46	0.00205	PASS
		10	LCH	TN	VL	-0.63	-0.00089	PASS
					VN	-2.46	-0.00347	PASS
					VH	-0.04	-0.00006	PASS
			MCH	TN	VL	2.42	0.00341	PASS
					VN	1.10	0.00155	PASS
					VH	2.00	0.00282	PASS
			HCH	TN	VL	0.74	0.00104	PASS
					VN	0.84	0.00118	PASS
					VH	-0.72	-0.00101	PASS
	LTE/TM2	5	LCH	TN	VL	0.21	0.0003	PASS
					VN	-1.04	-0.00147	PASS
					VH	0.51	0.00072	PASS
			MCH	TN	VL	1.27	0.00179	PASS
					VN	-0.47	-0.00066	PASS
					VH	-2.09	-0.00294	PASS
			HCH	TN	VL	2.03	0.00285	PASS
					VN	3.99	0.00559	PASS
					VH	1.46	0.00205	PASS
		10	LCH	TN	VL	-0.33	-0.00047	PASS
					VN	1.60	0.00226	PASS
					VH	0.66	0.00093	PASS
			MCH	TN	VL	2.55	0.00359	PASS
					VN	2.57	0.00362	PASS
					VH	2.09	0.00294	PASS
			HCH	TN	VL	1.43	0.00201	PASS

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Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					VN	0.62	0.00087	PASS
					VH	0.11	0.00015	PASS

8.1.2Frequency Error vs. Voltage:

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
BAND13	LTE/TM1	5	LCH	VN	-30	-0.39	-0.0005	PASS
					-20	4.76	0.00611	PASS
					-10	-0.57	-0.00073	PASS
					0	3.05	0.00391	PASS
					10	-3.88	-0.00498	PASS
					20	8.17	0.01048	PASS
					30	-0.30	-0.00038	PASS
					40	2.36	0.00303	PASS
					50	1.22	0.00157	PASS
			MCH	VN	-30	-2.15	-0.00275	PASS
					-20	-3.55	-0.00454	PASS
					-10	5.02	0.00642	PASS
					0	-5.24	-0.0067	PASS
					10	3.23	0.00413	PASS
					20	-2.96	-0.00379	PASS
					30	3.16	0.00404	PASS
					40	-2.90	-0.00371	PASS
					50	2.69	0.00344	PASS
			HCH	VN	-30	5.08	0.00648	PASS
					-20	0.04	0.00005	PASS
					-10	3.10	0.00395	PASS
					0	1.37	0.00175	PASS
					10	1.39	0.00177	PASS
					20	1.89	0.00241	PASS
					30	-0.72	-0.00092	PASS
					40	1.26	0.00161	PASS
					50	-2.98	-0.0038	PASS
		10	LCH	VN	-30	-4.13	-0.00528	PASS
					-20	-5.55	-0.0071	PASS
					-10	-6.87	-0.00879	PASS
					0	-2.46	-0.00315	PASS

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Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					10	-7.07	-0.00904	PASS
					20	-5.85	-0.00748	PASS
					30	-3.10	-0.00396	PASS
					40	-7.14	-0.00913	PASS
					50	-0.83	-0.00106	PASS
			MCH	VN	-30	-6.65	-0.0085	PASS
					-20	-9.73	-0.01244	PASS
					-10	-9.78	-0.01251	PASS
					0	-8.55	-0.01093	PASS
					10	-12.12	-0.0155	PASS
					20	-6.90	-0.00882	PASS
					30	-10.46	-0.01338	PASS
					40	-11.89	-0.0152	PASS
					50	-7.84	-0.01003	PASS
			HCH	VN	-30	-7.51	-0.0096	PASS
					-20	-11.01	-0.01408	PASS
					-10	-8.05	-0.01029	PASS
					0	-14.23	-0.0182	PASS
					10	-9.33	-0.01193	PASS
					20	-4.94	-0.00632	PASS
					30	-12.09	-0.01546	PASS
					40	-11.59	-0.01482	PASS
					50	-12.76	-0.01632	PASS
	LTE/TM2	5	LCH	VN	-30	4.22	0.00541	PASS
					-20	0.24	0.00031	PASS
					-10	3.12	0.004	PASS
					0	6.37	0.00817	PASS
					10	4.58	0.00588	PASS
					20	-1.49	-0.00191	PASS
					30	3.48	0.00446	PASS
					40	-1.54	-0.00198	PASS
					50	2.55	0.00327	PASS
			MCH	VN	-30	6.92	0.00885	PASS
					-20	-1.33	-0.0017	PASS
					-10	0.09	0.00012	PASS
					0	-2.75	-0.00352	PASS
					10	4.12	0.00527	PASS
					20	-1.76	-0.00225	PASS
					30	4.84	0.00619	PASS

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Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					40	0.20	0.00026	PASS
					50	7.38	0.00944	PASS
			HCH	VN	-30	4.33	0.00552	PASS
					-20	0.53	0.00068	PASS
					-10	-0.79	-0.00101	PASS
					0	0.23	0.00029	PASS
					10	-3.06	-0.0039	PASS
					20	-0.43	-0.00055	PASS
					30	-6.45	-0.00822	PASS
					40	-0.44	-0.00056	PASS
					50	-7.11	-0.00906	PASS
		10	LCH	VN	-30	2.30	0.00294	PASS
					-20	-0.96	-0.00123	PASS
					-10	0.39	0.0005	PASS
					0	2.20	0.00281	PASS
					10	1.95	0.00249	PASS
					20	2.12	0.00271	PASS
					30	-1.52	-0.00194	PASS
					40	3.28	0.00419	PASS
					50	2.76	0.00353	PASS
			MCH	VN	-30	2.25	0.00288	PASS
					-20	-1.00	-0.00128	PASS
					-10	3.88	0.00496	PASS
					0	-0.84	-0.00107	PASS
					10	2.99	0.00382	PASS
					20	4.25	0.00543	PASS
					30	0.26	0.00033	PASS
					40	-0.27	-0.00035	PASS
					50	0.11	0.00014	PASS
			HCH	VN	-30	0.63	0.00081	PASS
					-20	0.40	0.00051	PASS
					-10	3.66	0.00468	PASS
					0	-1.80	-0.0023	PASS
					10	2.62	0.00335	PASS
					20	2.29	0.00293	PASS
					30	0.92	0.00118	PASS
					40	1.82	0.00233	PASS
					50	-2.02	-0.00258	PASS
BAND17	LTE/TM1	5	LCH	VN	-30	-2.49	-0.00352	PASS

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Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					-20	-0.54	-0.00076	PASS
					-10	4.25	0.00602	PASS
					0	1.97	0.00279	PASS
					10	1.56	0.00221	PASS
					20	2.88	0.00408	PASS
					30	1.53	0.00217	PASS
					40	0.93	0.00132	PASS
					50	0.27	0.00038	PASS
			MCH	VN	-30	-0.34	-0.00048	PASS
					-20	1.00	0.00141	PASS
					-10	0.70	0.00099	PASS
					0	1.79	0.00252	PASS
					10	1.23	0.00173	PASS
					20	2.53	0.00356	PASS
					30	3.25	0.00458	PASS
					40	1.27	0.00179	PASS
					50	0.07	0.0001	PASS
			HCH	VN	-30	-2.16	-0.00303	PASS
					-20	1.77	0.00248	PASS
					-10	-0.50	-0.0007	PASS
					0	-0.44	-0.00062	PASS
					10	-0.34	-0.00048	PASS
					20	-2.20	-0.00308	PASS
					30	0.60	0.00084	PASS
					40	-0.11	-0.00015	PASS
					50	0.89	0.00125	PASS
		10	LCH	VN	-30	-2.19	-0.00309	PASS
					-20	0.33	0.00047	PASS
					-10	-0.40	-0.00056	PASS
					0	-0.97	-0.00137	PASS
					10	-1.29	-0.00182	PASS
					20	-0.57	-0.0008	PASS
					30	-1.79	-0.00252	PASS
					40	-0.94	-0.00133	PASS
					50	-0.27	-0.00038	PASS
			MCH	VN	-30	0.96	0.00135	PASS
					-20	-0.17	-0.00024	PASS
					-10	0.26	0.00037	PASS
					0	0.20	0.00028	PASS

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Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					10	1.02	0.00144	PASS
					20	-0.50	-0.0007	PASS
					30	-0.26	-0.00037	PASS
					40	2.20	0.0031	PASS
					50	0.27	0.00038	PASS
			HCH	VN	-30	1.24	0.00174	PASS
					-20	-0.69	-0.00097	PASS
					-10	-0.86	-0.00121	PASS
					0	0.92	0.00129	PASS
					10	0.47	0.00066	PASS
					20	-0.84	-0.00118	PASS
					30	0.00	0	PASS
					40	1.67	0.00235	PASS
					50	0.24	0.00034	PASS
	LTE/TM2	5	LCH	VN	-30	1.30	0.00184	PASS
					-20	-1.36	-0.00192	PASS
					-10	-0.34	-0.00048	PASS
					0	-1.07	-0.00151	PASS
					10	1.12	0.00159	PASS
					20	-3.18	-0.0045	PASS
					30	-3.45	-0.00488	PASS
					40	-3.53	-0.005	PASS
					50	0.37	0.00052	PASS
			MCH	VN	-30	2.47	0.00348	PASS
					-20	-0.94	-0.00132	PASS
					-10	1.65	0.00232	PASS
					0	3.81	0.00537	PASS
					10	0.50	0.0007	PASS
					20	0.93	0.00131	PASS
					30	0.33	0.00046	PASS
					40	1.32	0.00186	PASS
					50	2.27	0.0032	PASS
			HCH	VN	-30	-0.39	-0.00055	PASS
					-20	1.32	0.00185	PASS
					-10	1.34	0.00188	PASS
					0	-1.49	-0.00209	PASS
					10	1.14	0.0016	PASS
					20	-2.49	-0.00349	PASS
					30	-2.25	-0.00315	PASS

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Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					40	1.37	0.00192	PASS
					50	-2.68	-0.00376	PASS
		10	LCH	VN	-30	1.97	0.00278	PASS
					-20	2.00	0.00282	PASS
					-10	1.75	0.00247	PASS
					0	-0.19	-0.00027	PASS
					10	2.89	0.00408	PASS
					20	2.30	0.00324	PASS
					30	1.50	0.00212	PASS
					40	3.28	0.00463	PASS
					50	2.15	0.00303	PASS
			MCH	VN	-30	1.17	0.00165	PASS
					-20	-0.26	-0.00037	PASS
					-10	1.19	0.00168	PASS
					0	0.53	0.00075	PASS
					10	0.16	0.00023	PASS
					20	-0.16	-0.00023	PASS
					30	-0.43	-0.00061	PASS
					40	-1.40	-0.00197	PASS
					50	-1.52	-0.00214	PASS
			HCH	VN	-30	3.60	0.00506	PASS
					-20	1.03	0.00145	PASS
					-10	1.37	0.00193	PASS
					0	2.15	0.00302	PASS
					10	1.59	0.00224	PASS
					20	1.70	0.00239	PASS
					30	1.32	0.00186	PASS
					40	0.94	0.00132	PASS
					50	0.66	0.00093	PASS

END

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