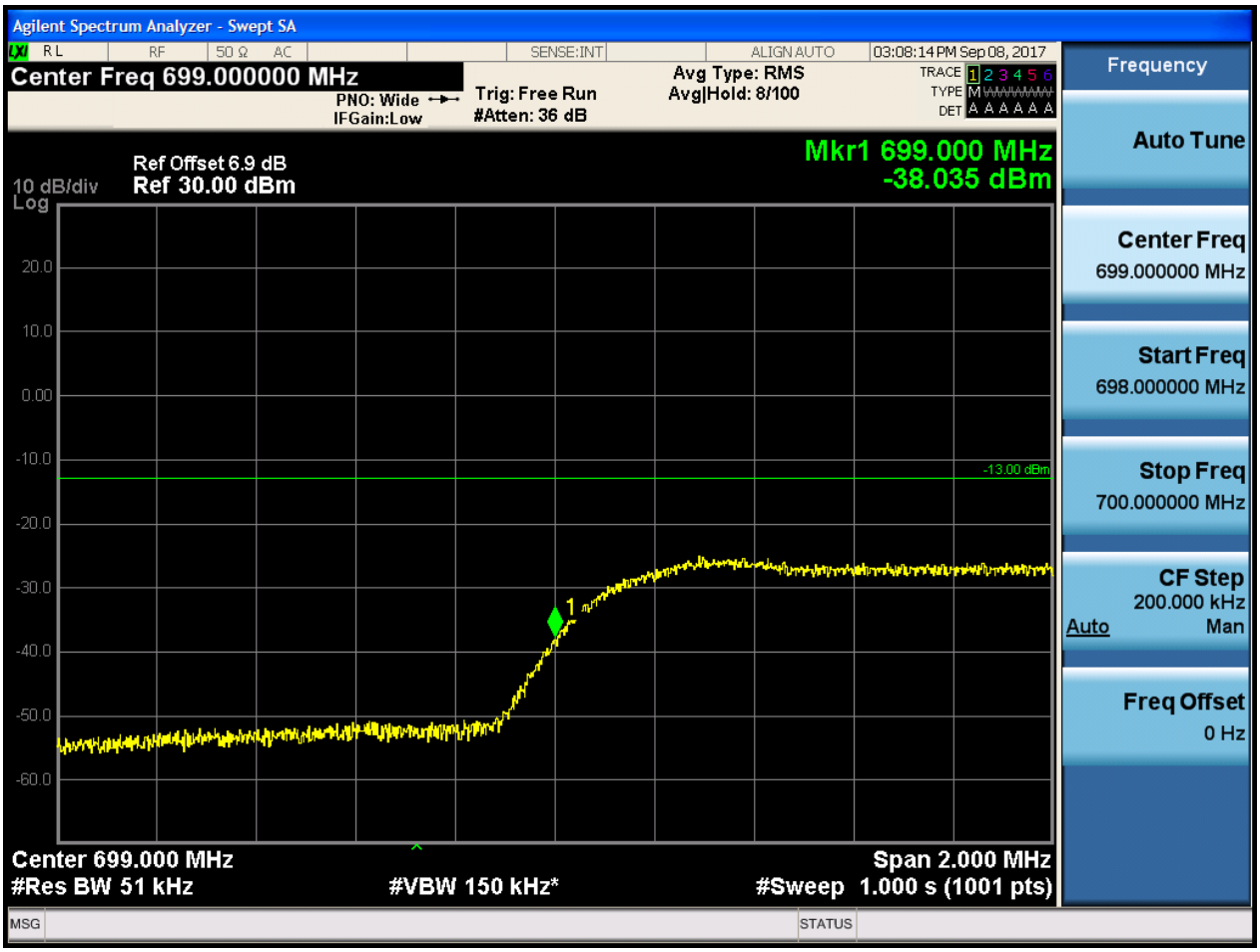
5.1.1.2.3.1.2 Test RB = RB1#24



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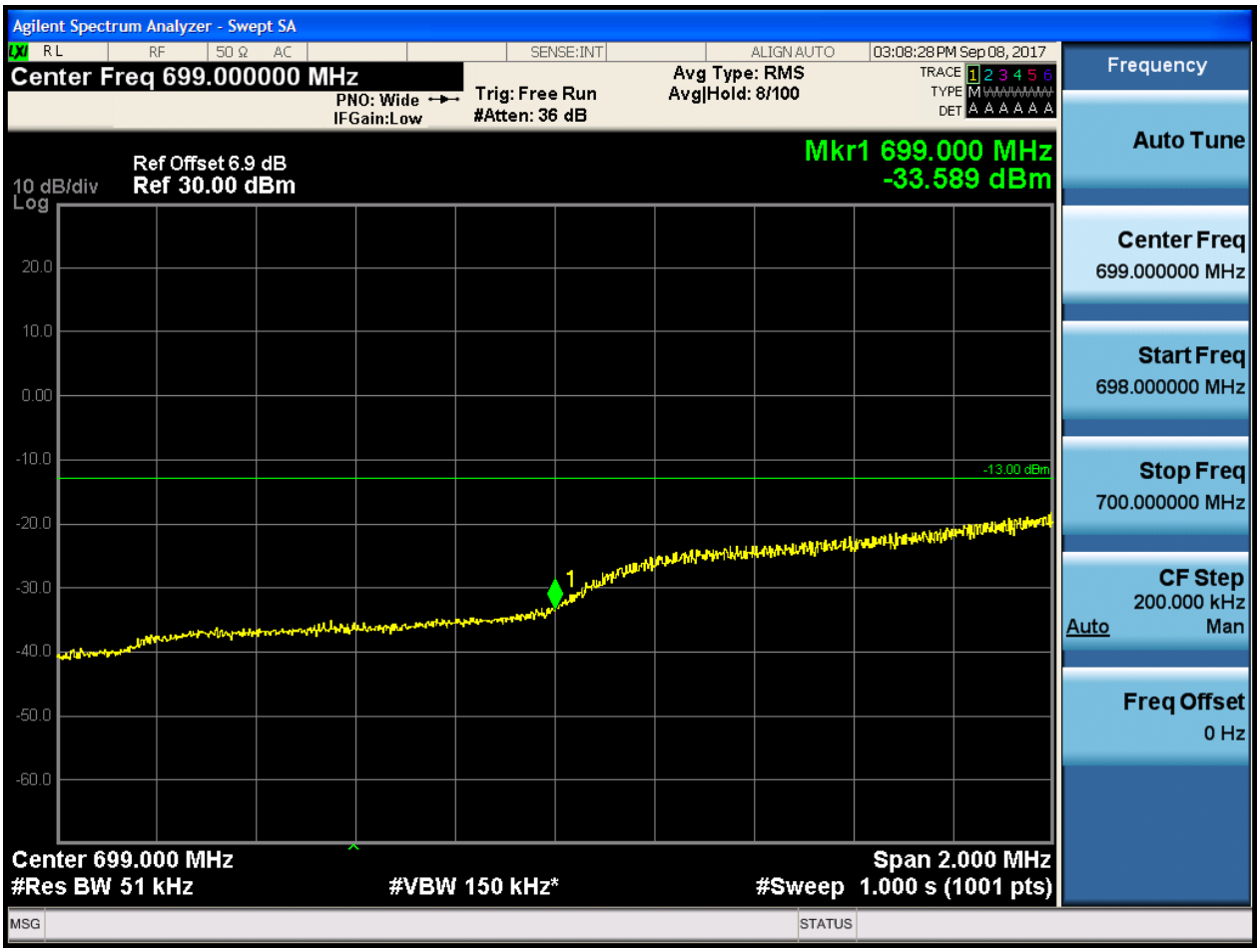
5.1.1.2.3.1.3 Test RB = RB12#6



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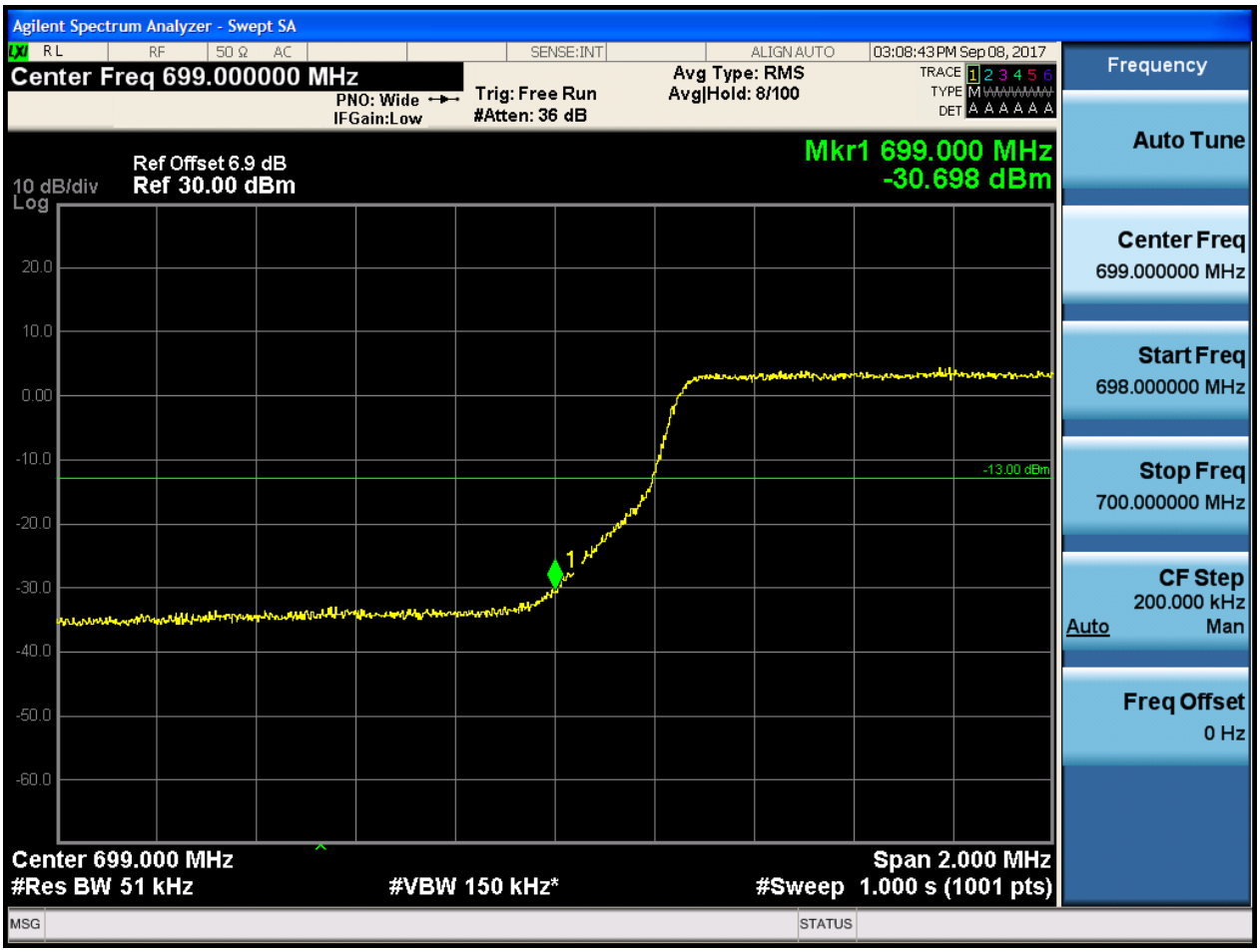
5.1.1.2.3.1.4 Test RB = RB25#0



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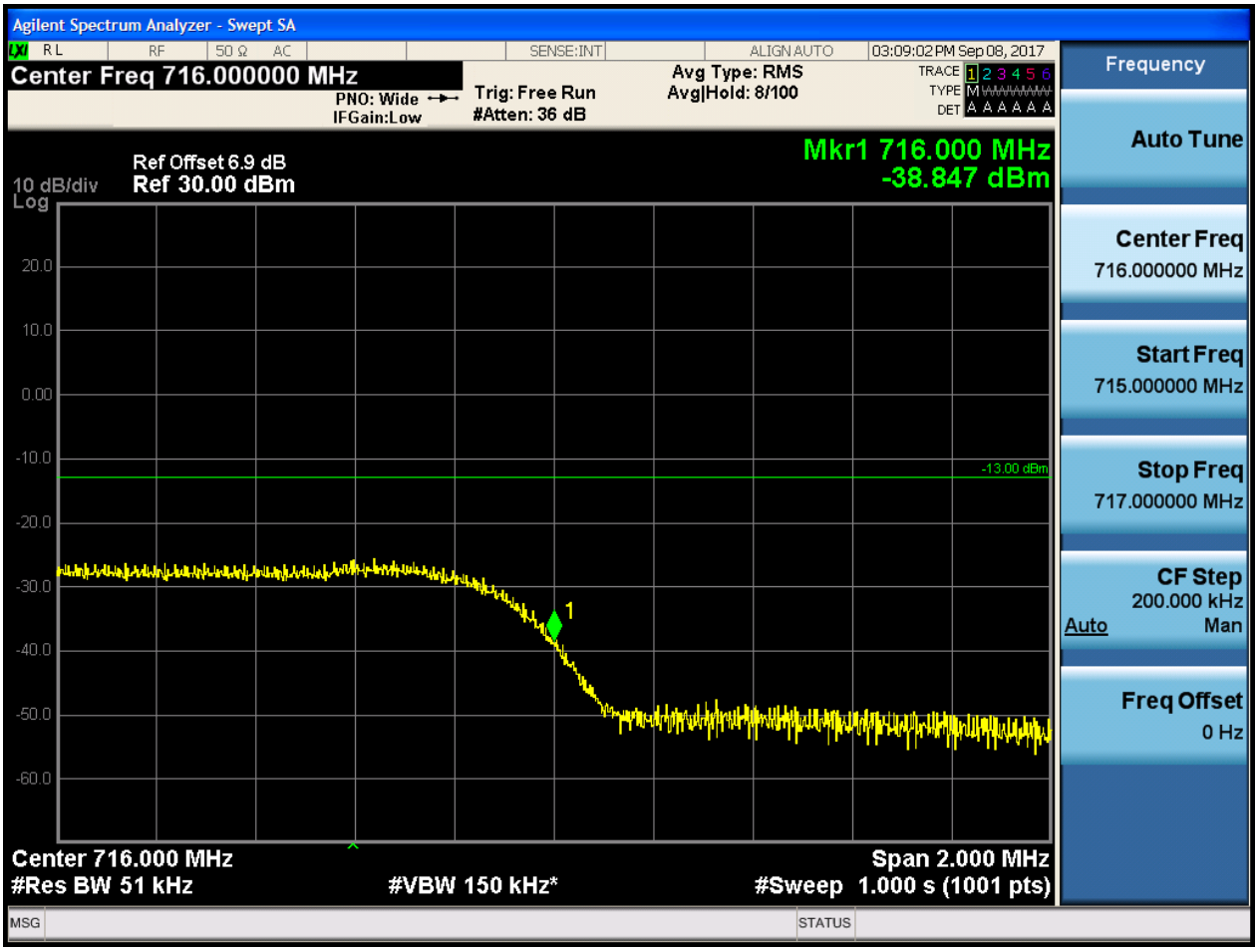
5.1.1.2.3.2 Test Channel = HCH

5.1.1.2.3.2.1 Test RB = RB1#0



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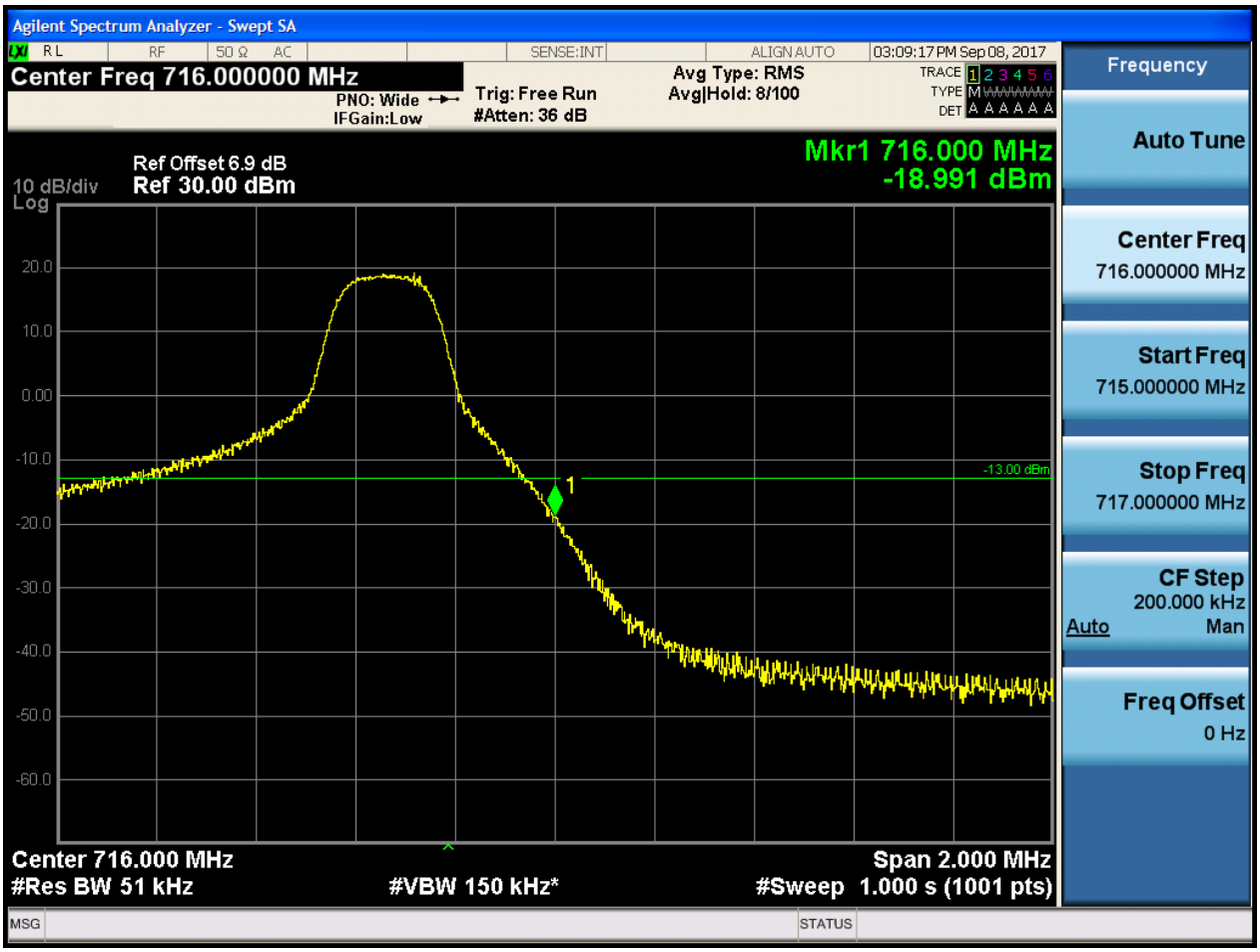
5.1.1.2.3.2.2 Test RB = RB1#24



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5.1.1.2.3.2.3 Test RB = RB12#6

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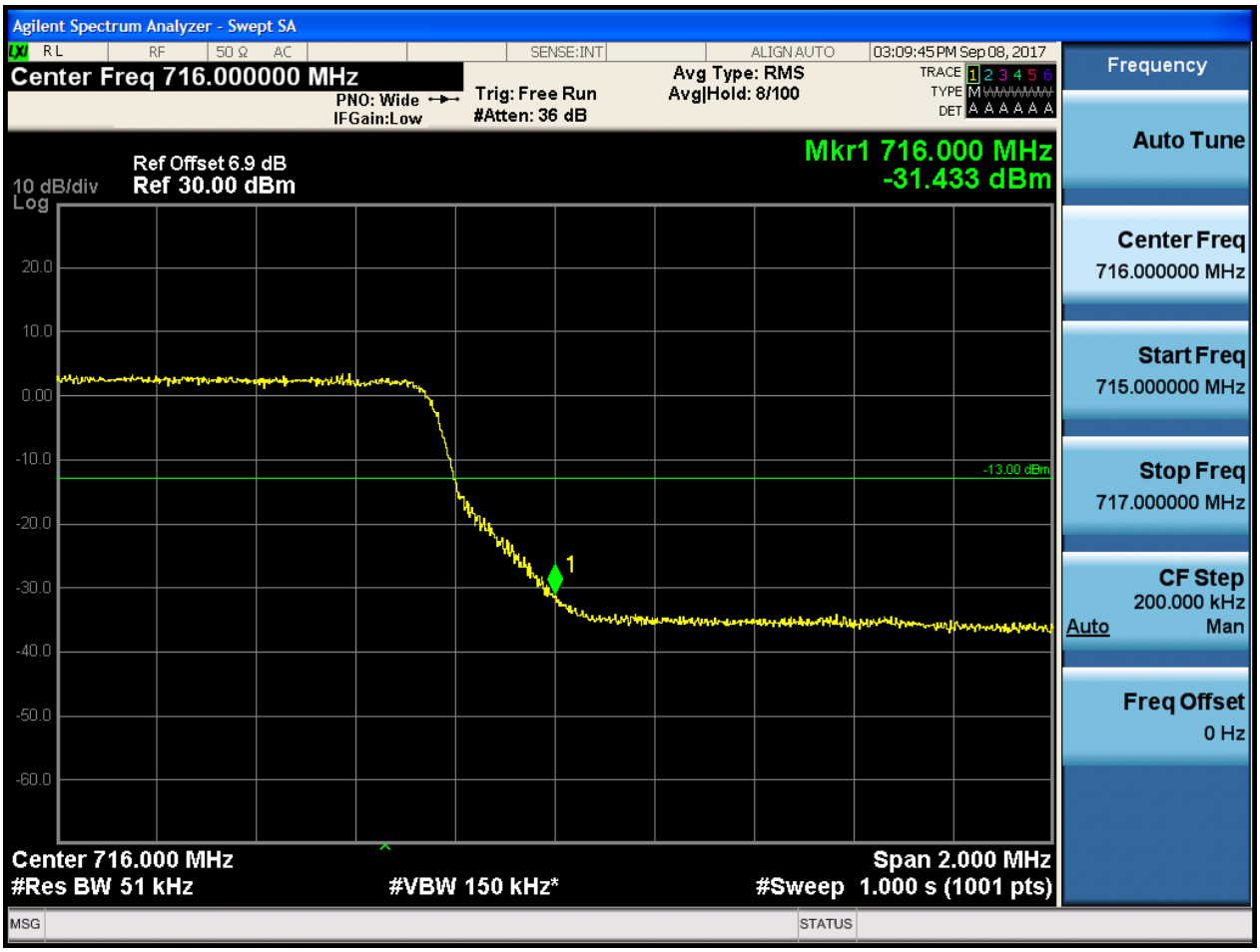
5.1.1.2.3.2.4 Test RB = RB25#0



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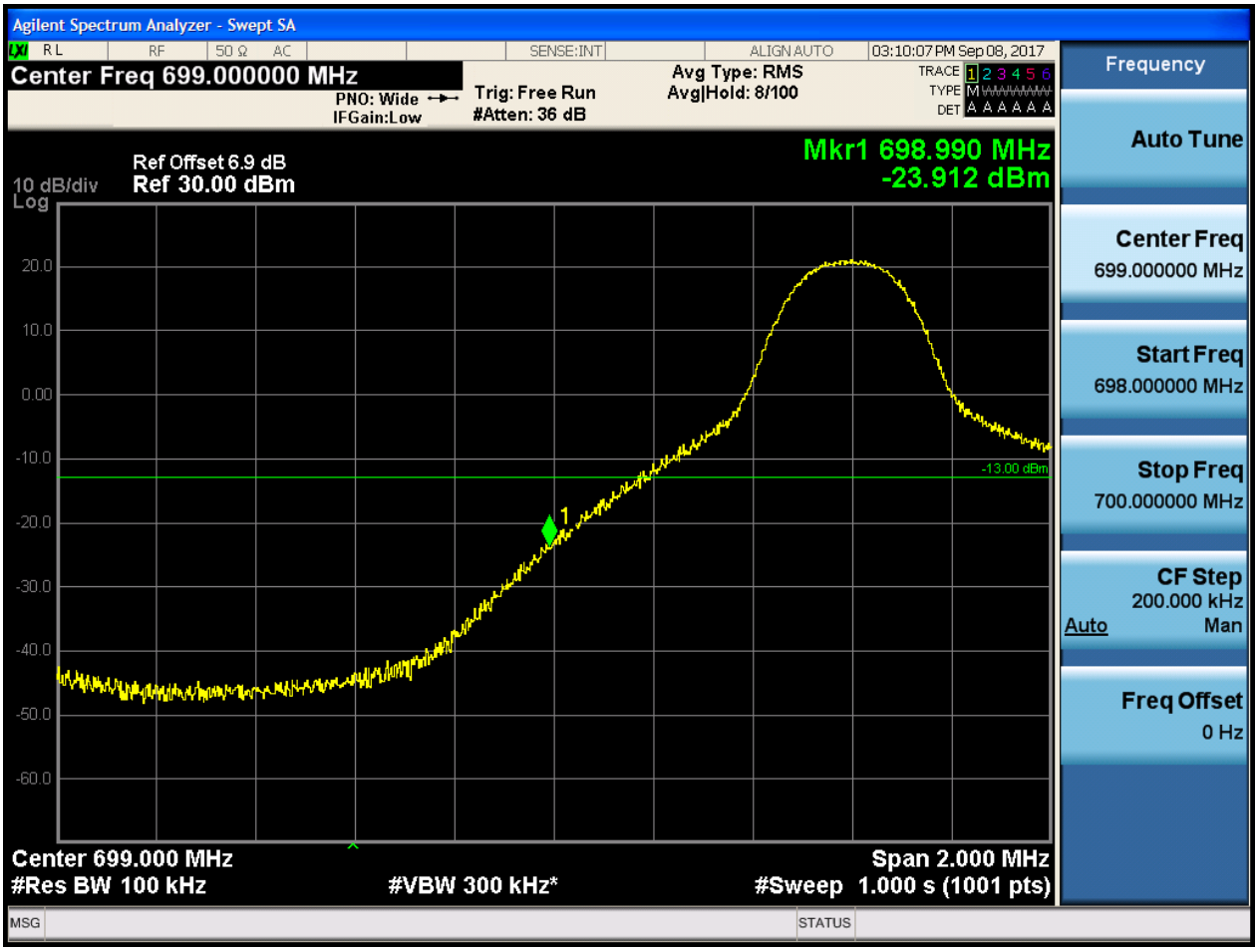
5.1.1.2.4 Test Bandwidth = 10

5.1.1.2.4.1 Test Channel = LCH

5.1.1.2.4.1.1 Test RB = RB1#0



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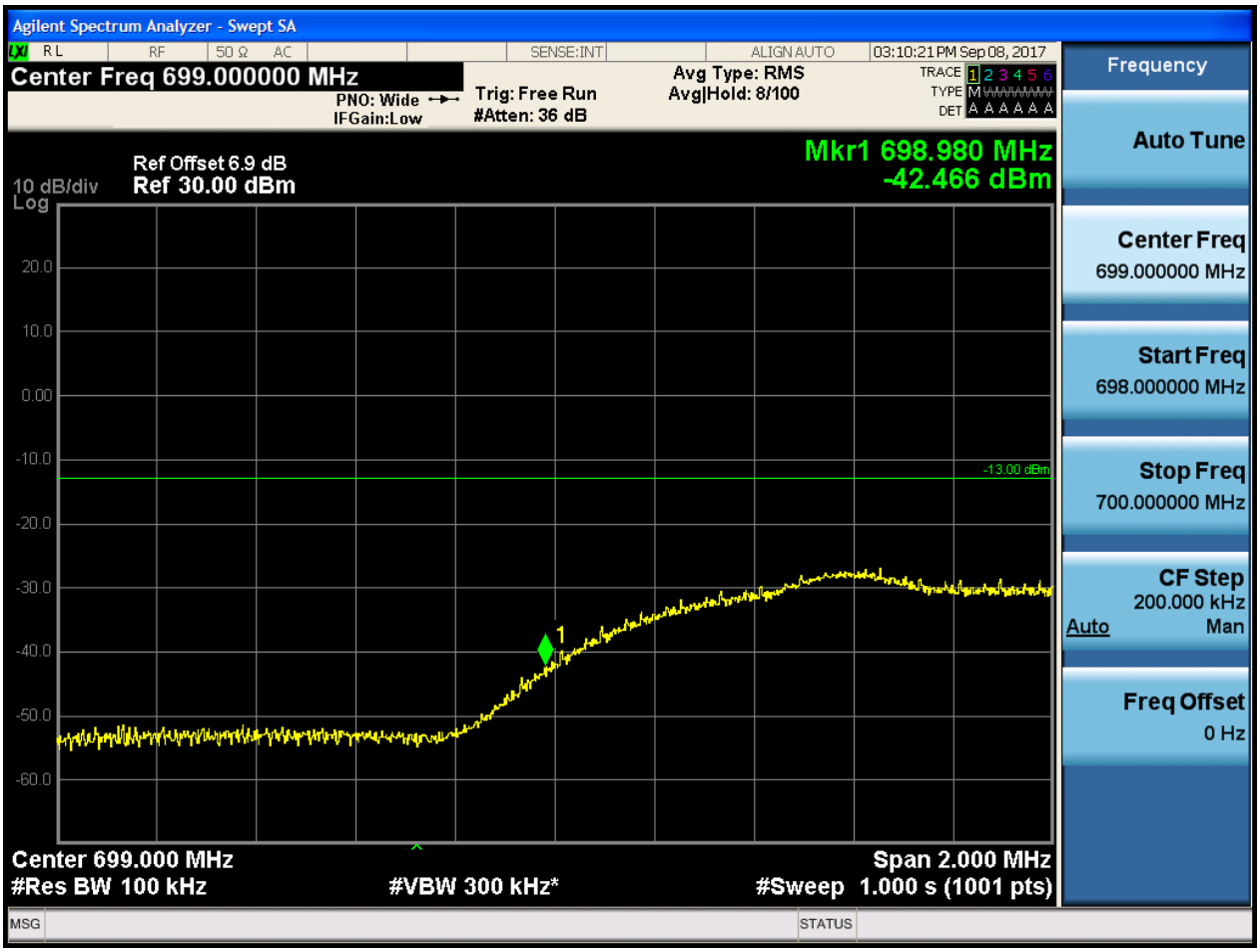
5.1.1.2.4.1.2 Test RB = RB1#49



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5.1.1.2.4.1.3 Test RB = RB25#13

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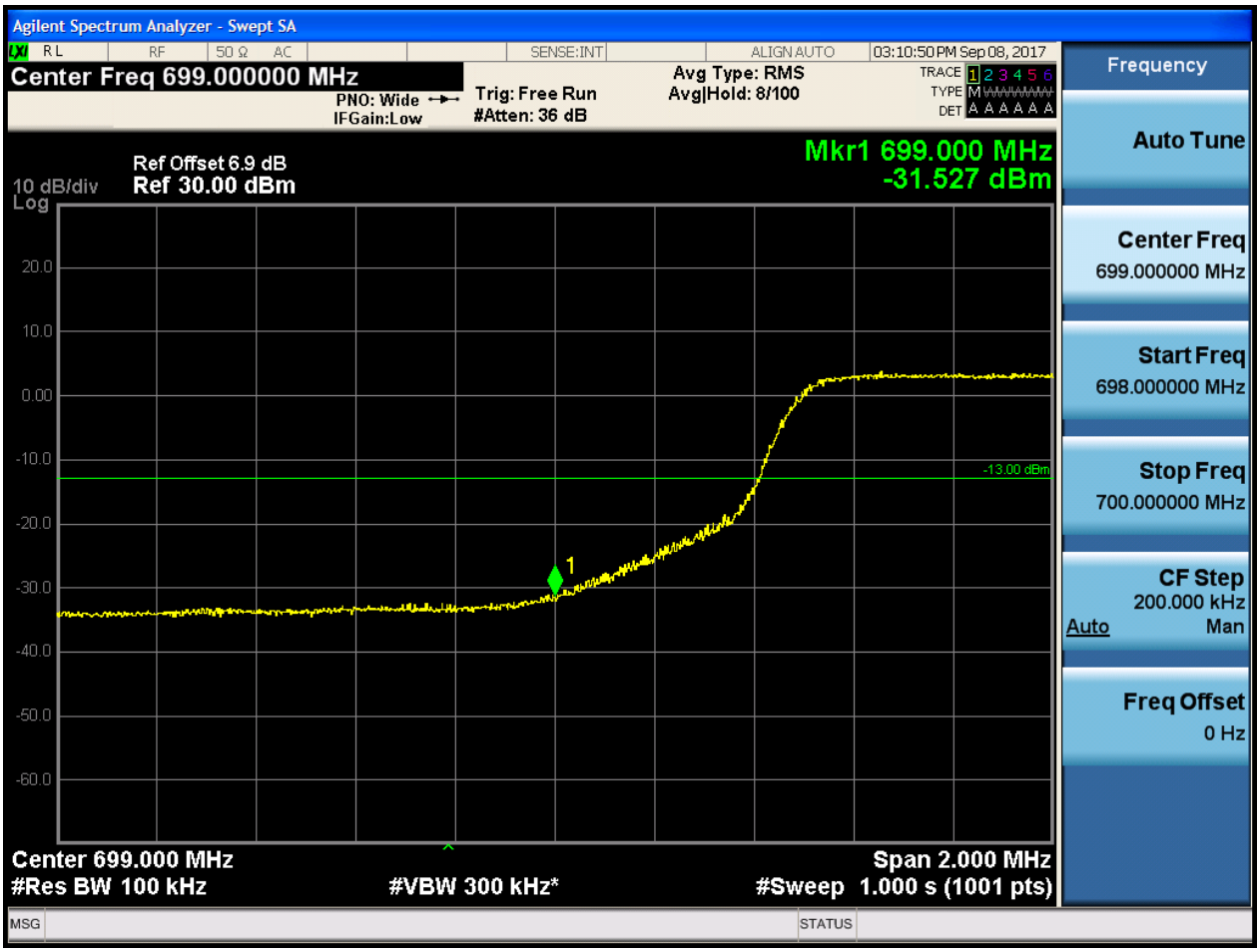
5.1.1.2.4.1.4 Test RB = RB50#0



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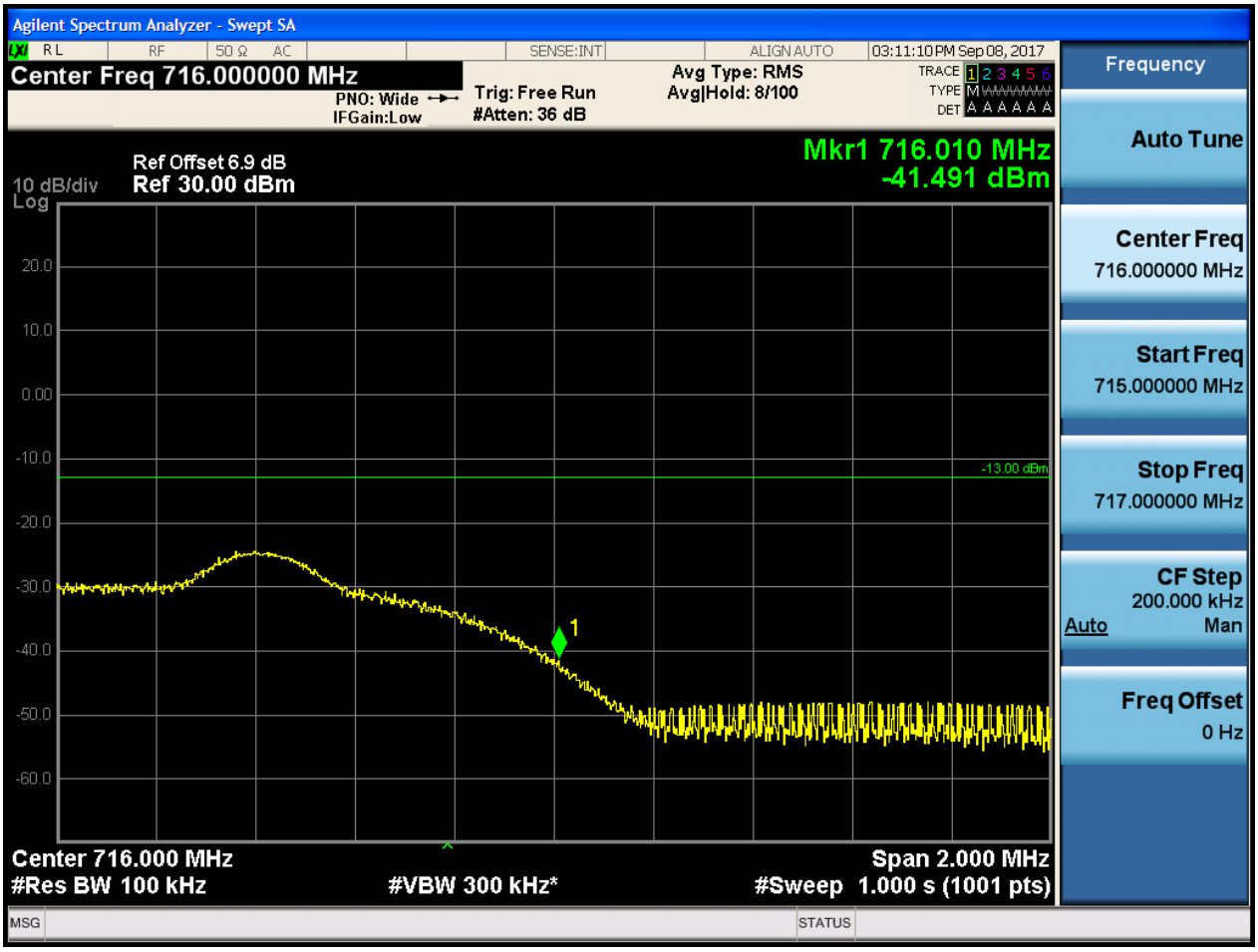
5.1.1.2.4.2 Test Channel = HCH

5.1.1.2.4.2.1 Test RB = RB1#0



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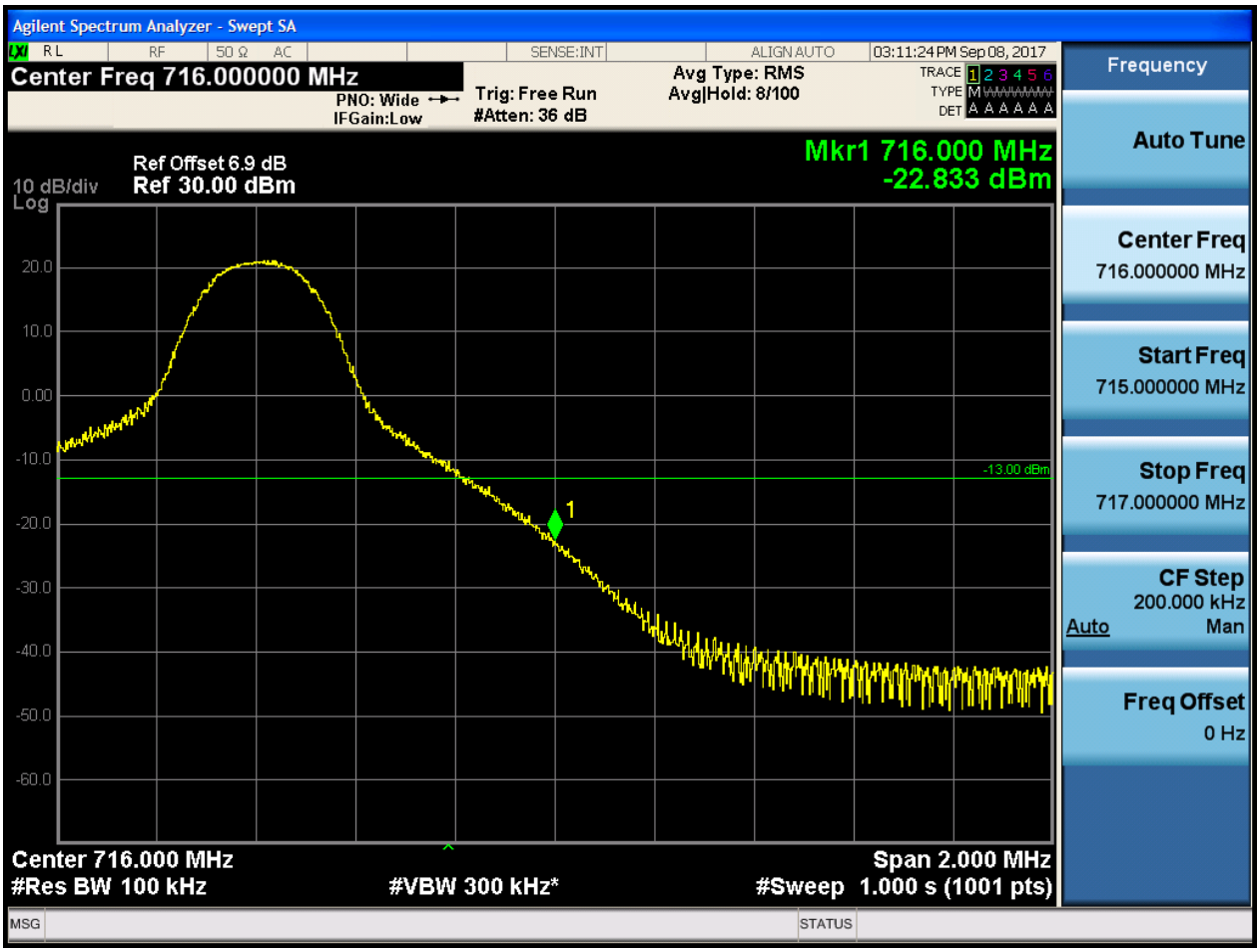
5.1.1.2.4.2.2 Test RB = RB1#49



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5.1.1.2.4.2.3 Test RB = RB25#13

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5.1.1.2.4.2.4 Test RB = RB50#0

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6Appendix_F: Spurious Emission at Antenna Terminal

NOTE: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of < RBW/2 so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = k * (Span / RBW)" with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Part I - Test Plots

6.1 For LTE

6.1.1 Test Band = BAND12

6.1.1.1 Test Mode = LTE/TM1

6.1.1.1.1 Test Bandwidth = 1.4

6.1.1.1.1.1 Test Channel = LCH

6.1.1.1.1.1.1 Test RB = RB1#0

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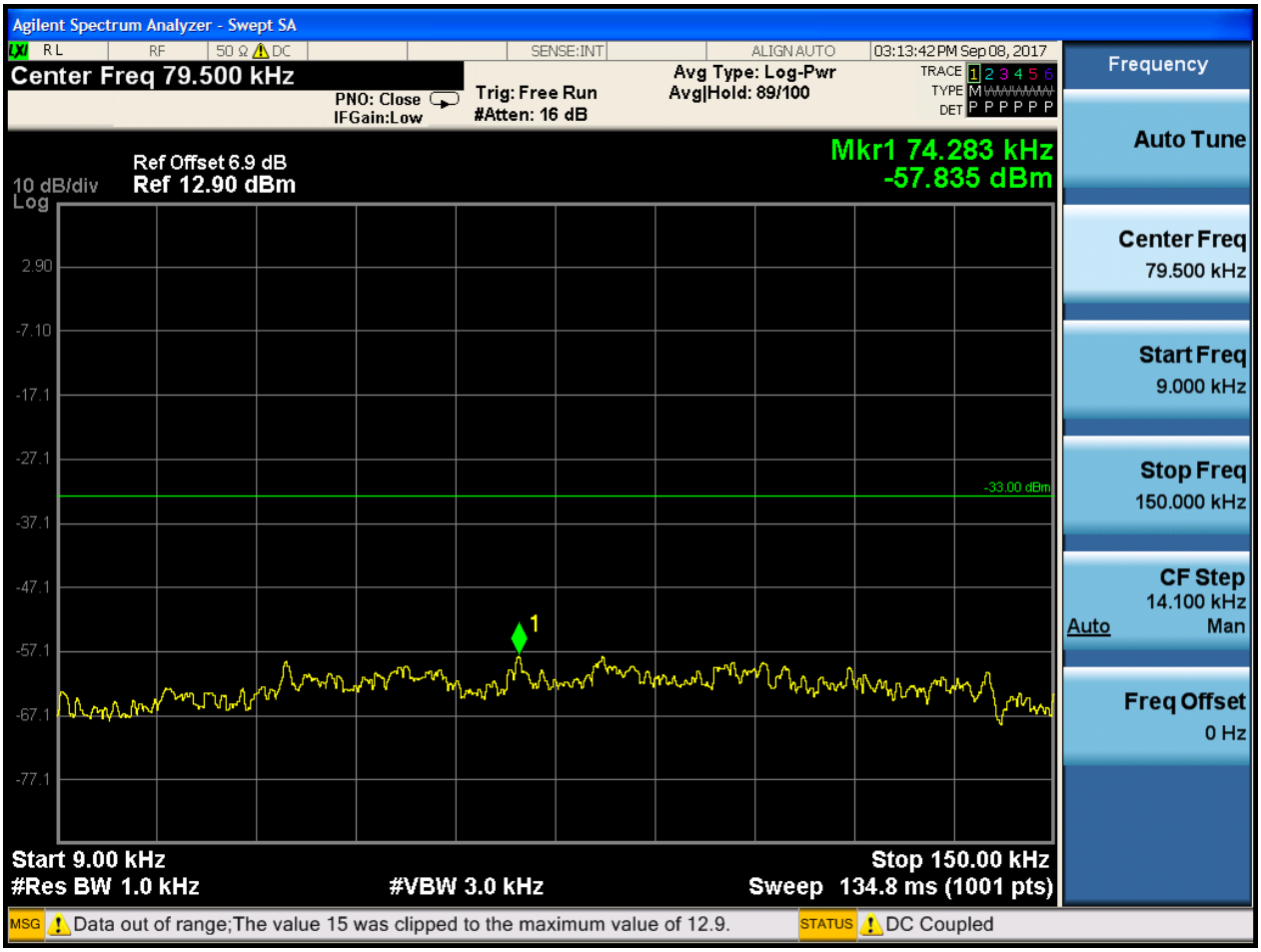

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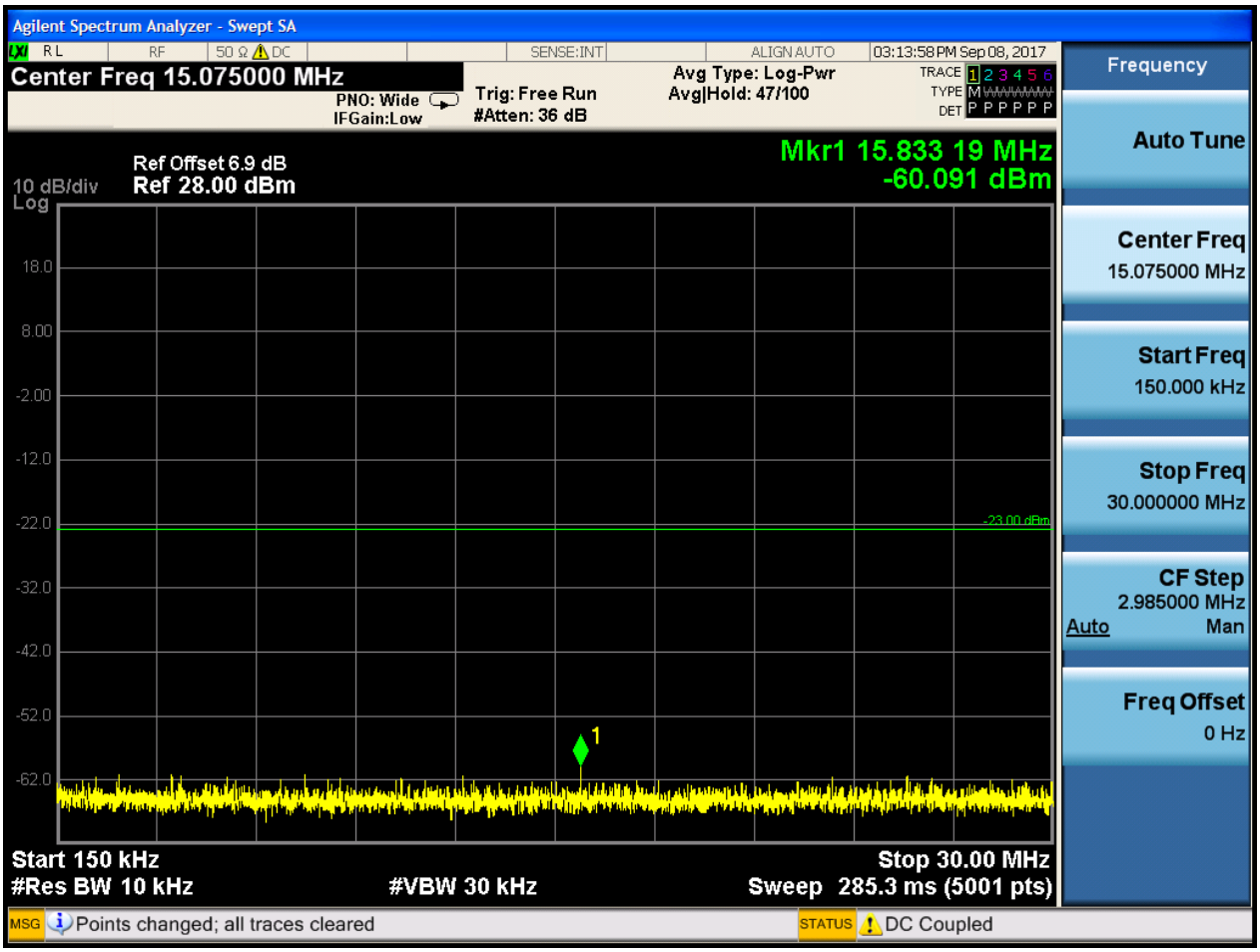

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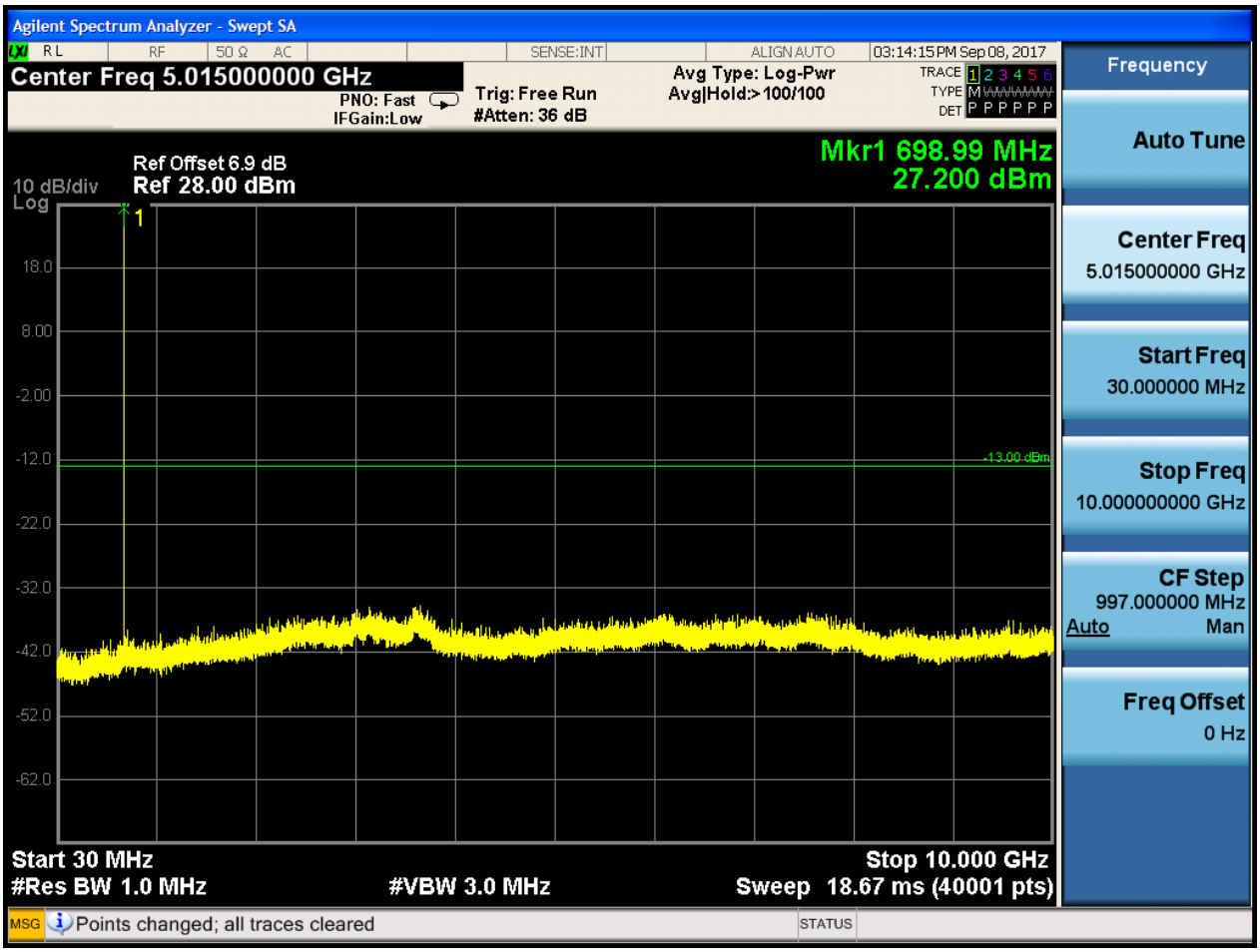

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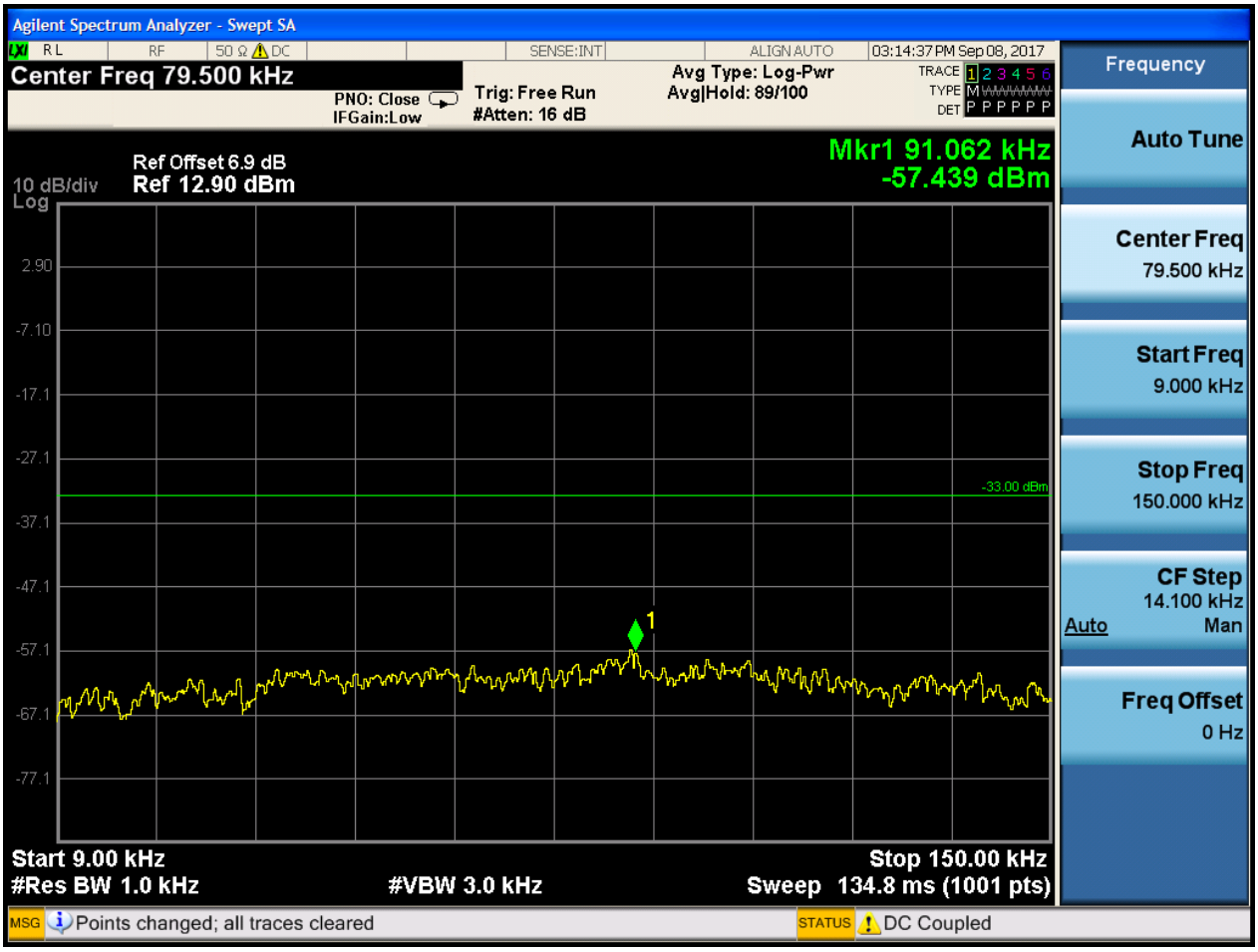
6.1.1.1.1.2 Test Channel = MCH

6.1.1.1.1.2.1 Test RB = RB1#0



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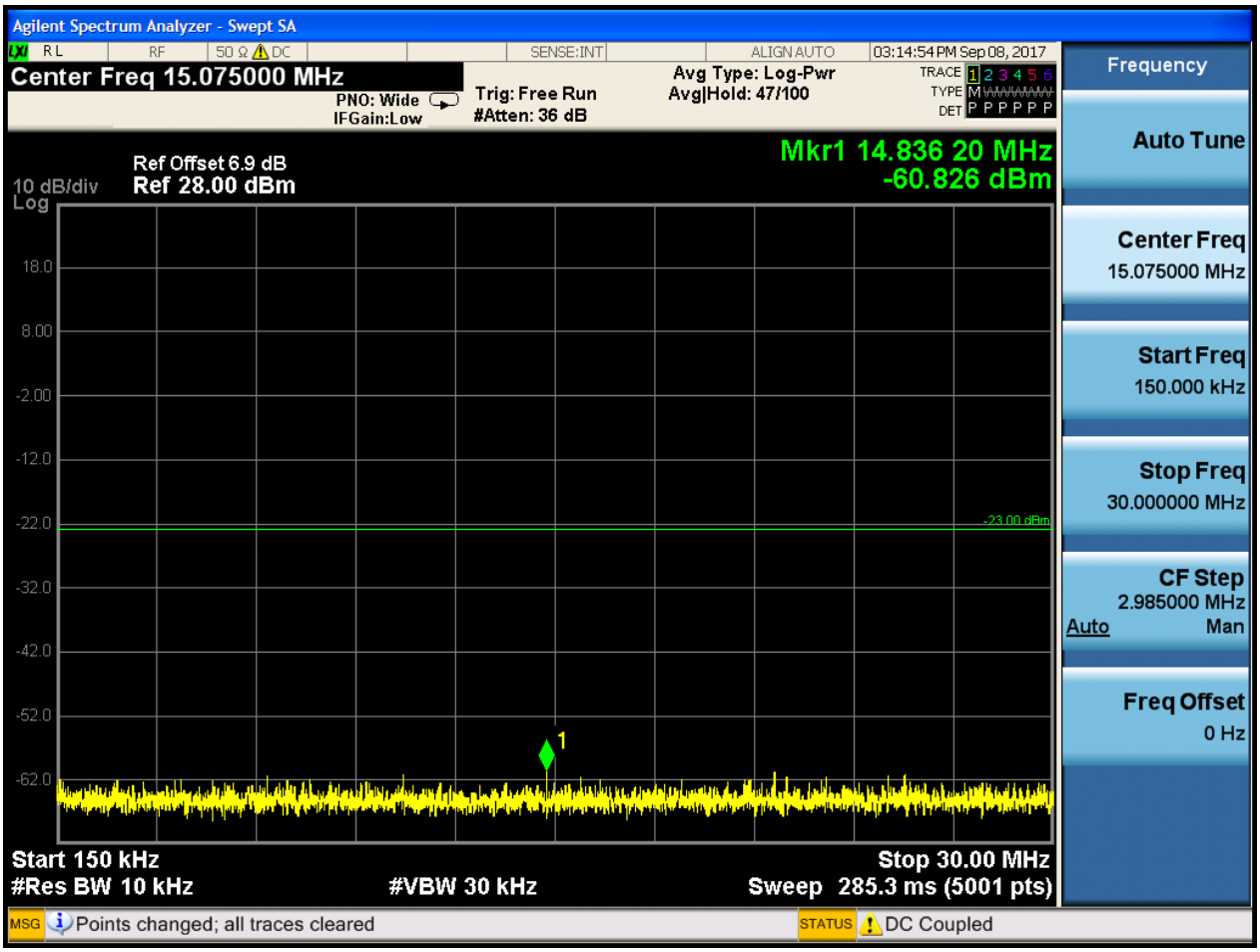

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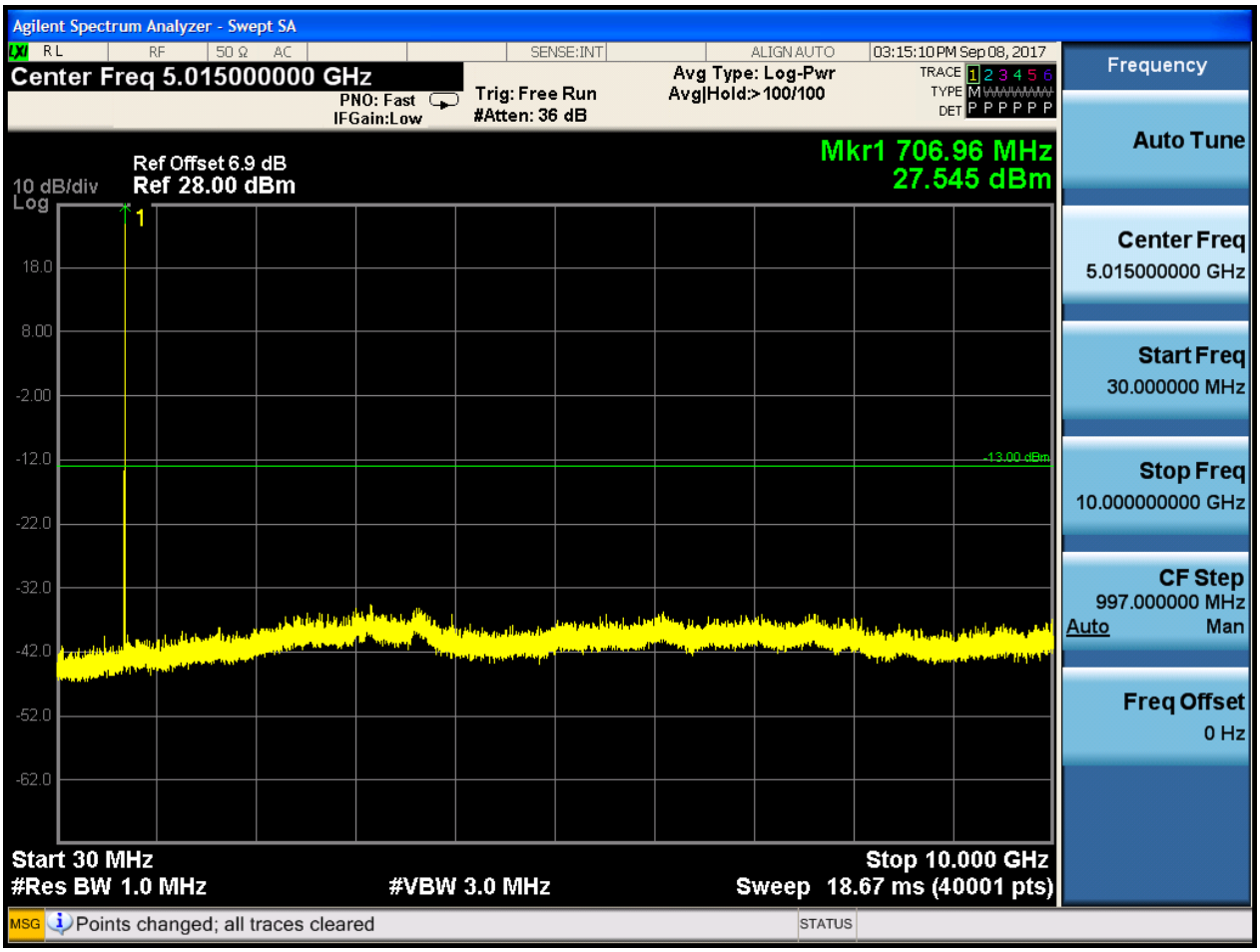

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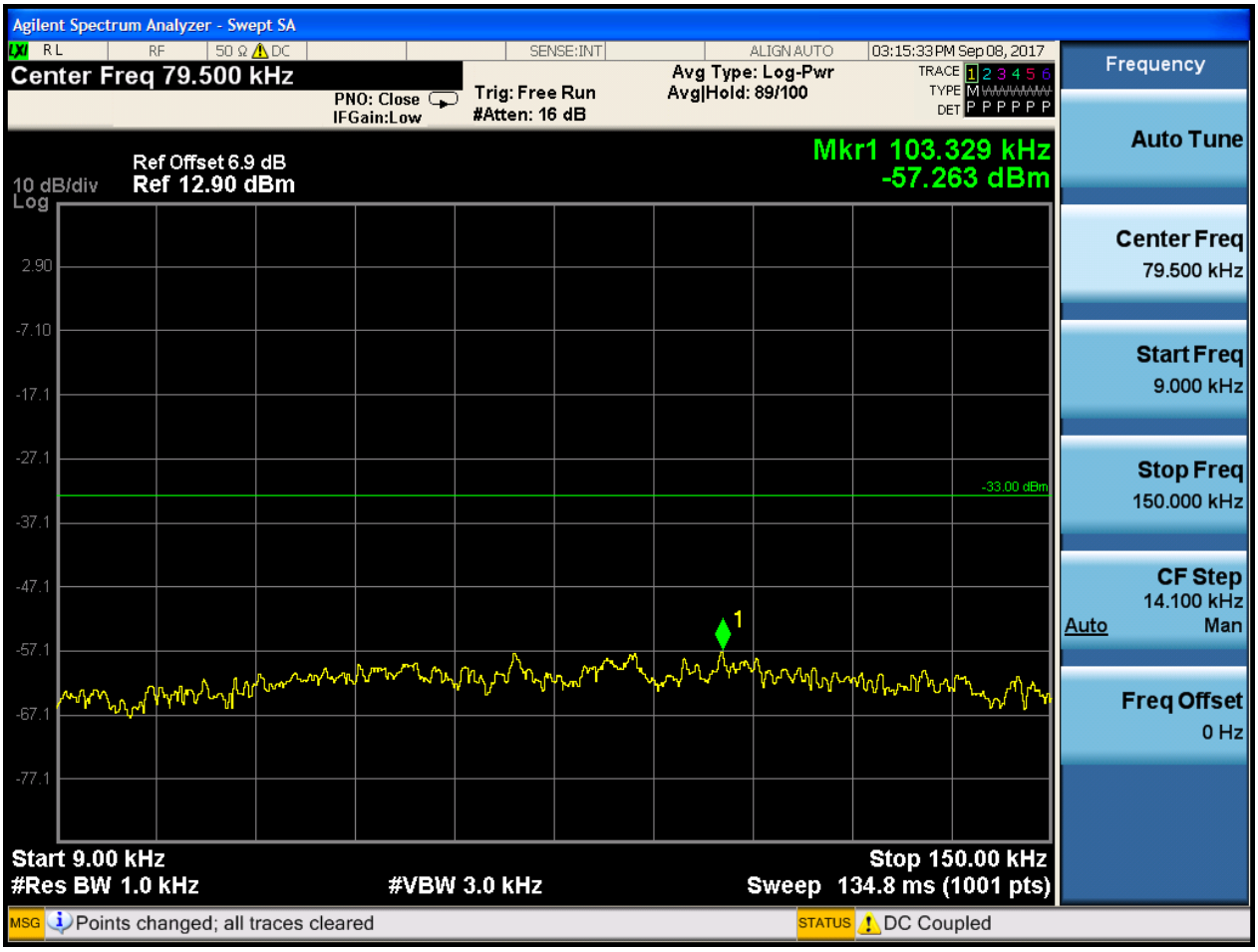
6.1.1.1.1.3 Test Channel = HCH

6.1.1.1.1.3.1 Test RB = RB1#0



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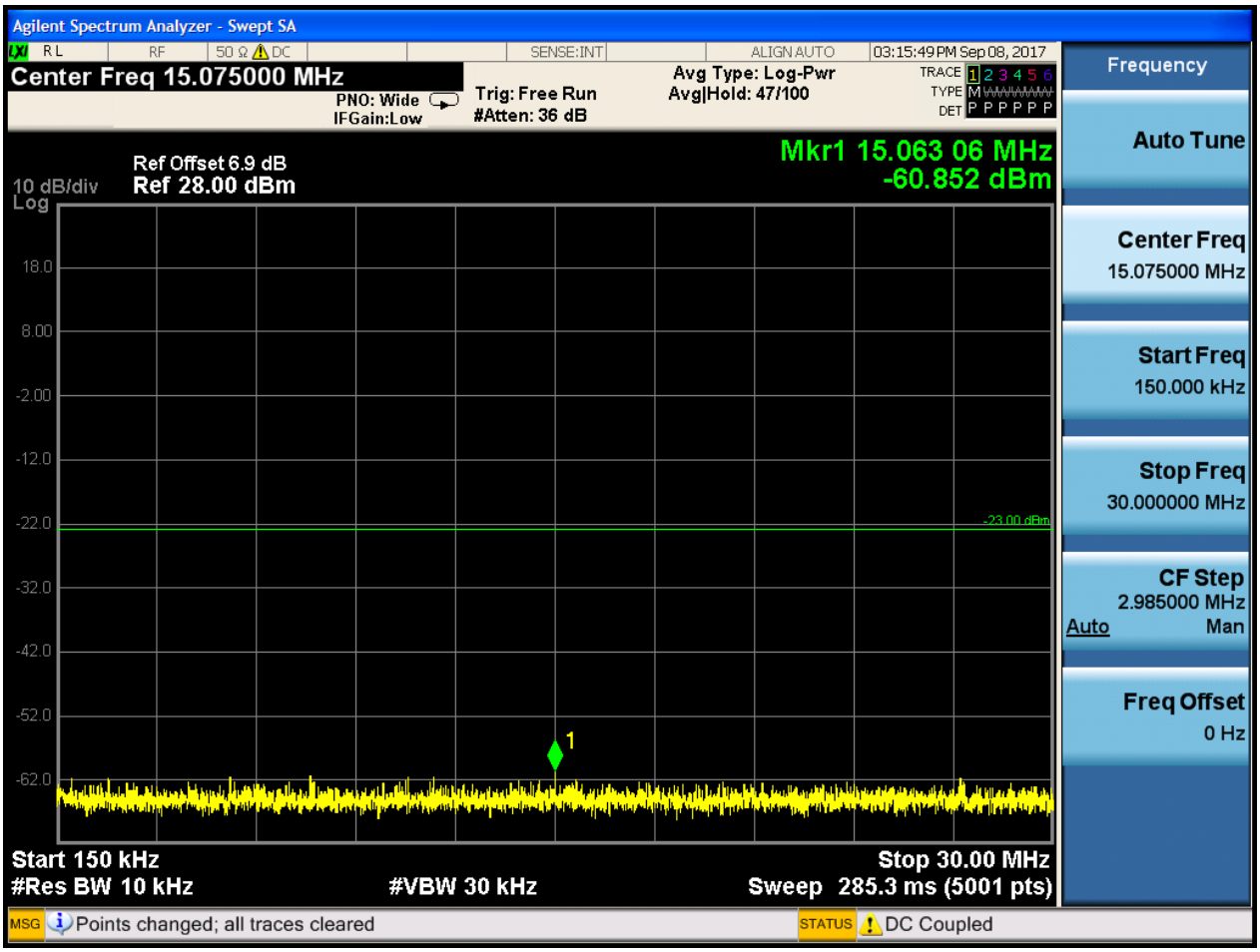

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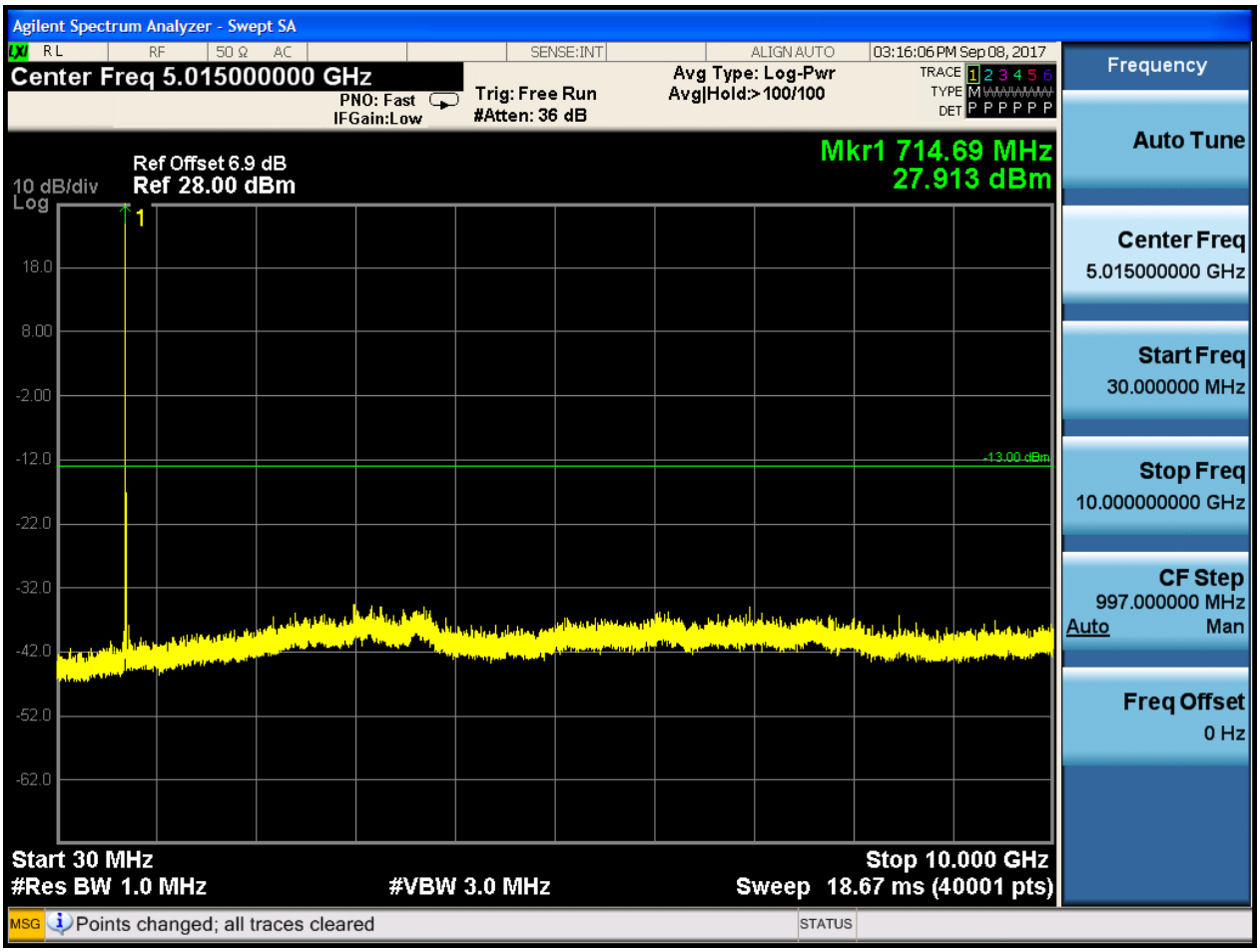

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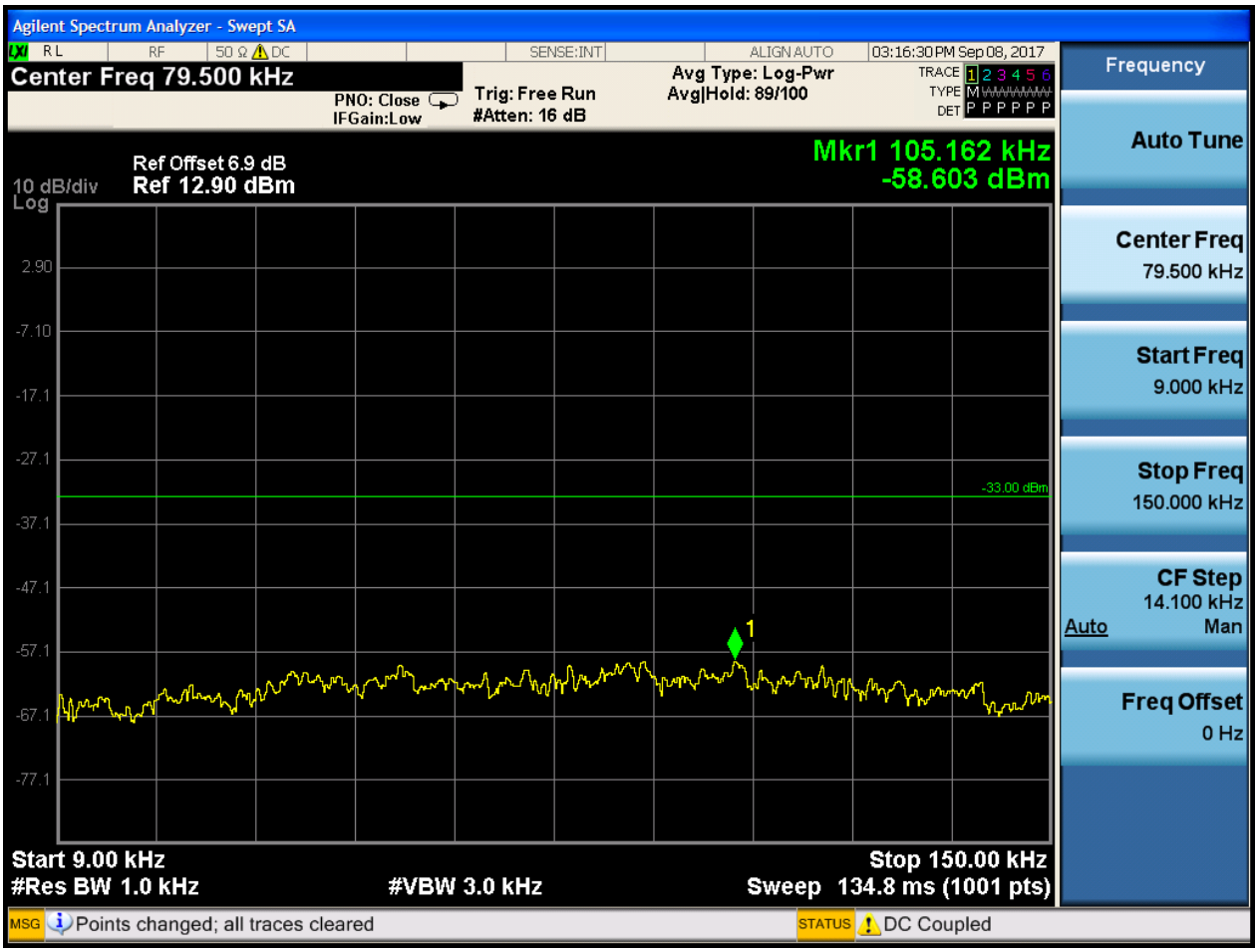
6.1.1.1.2 Test Bandwidth = 3

6.1.1.1.2.1 Test Channel = LCH

6.1.1.1.2.1.1 Test RB = RB1#0



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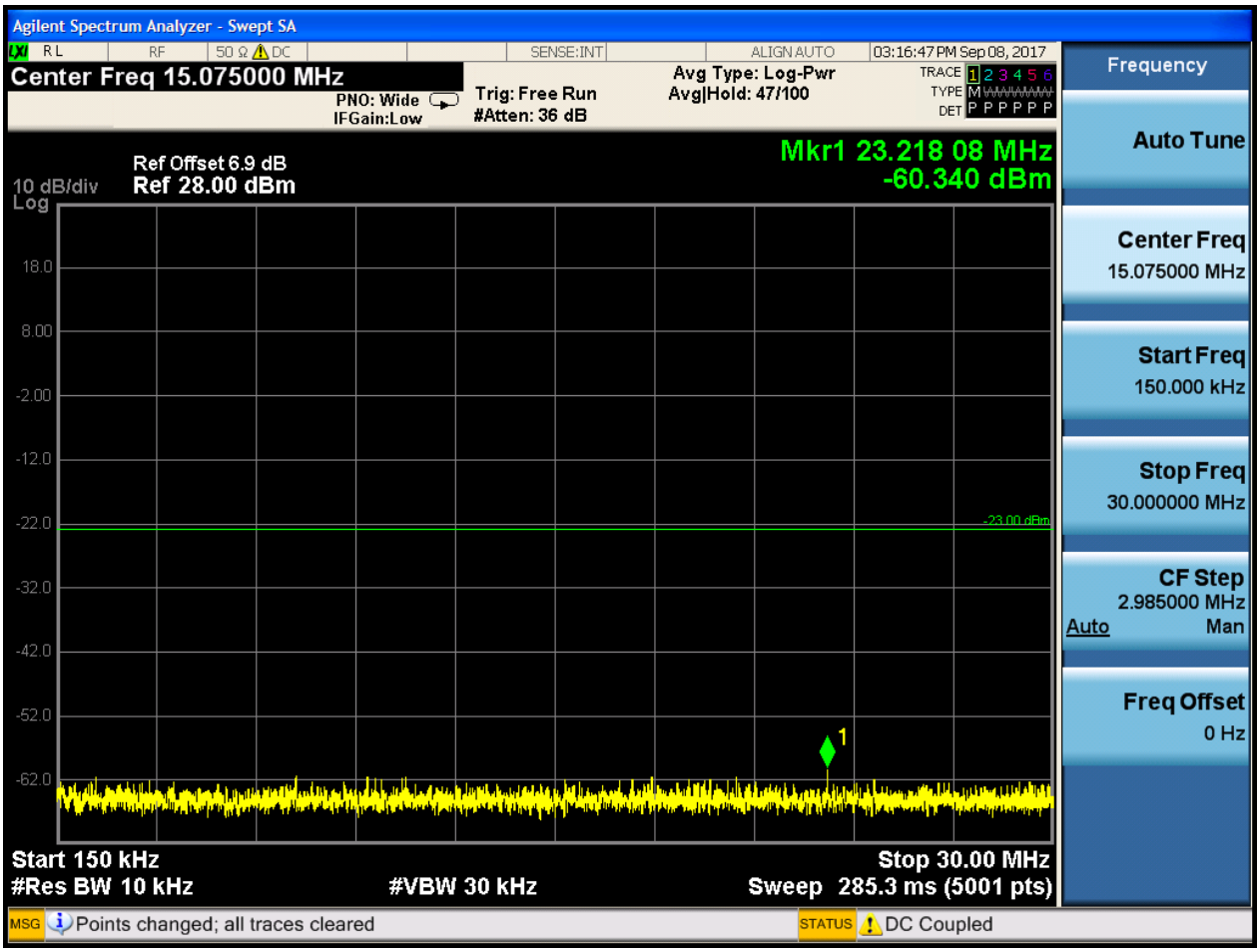

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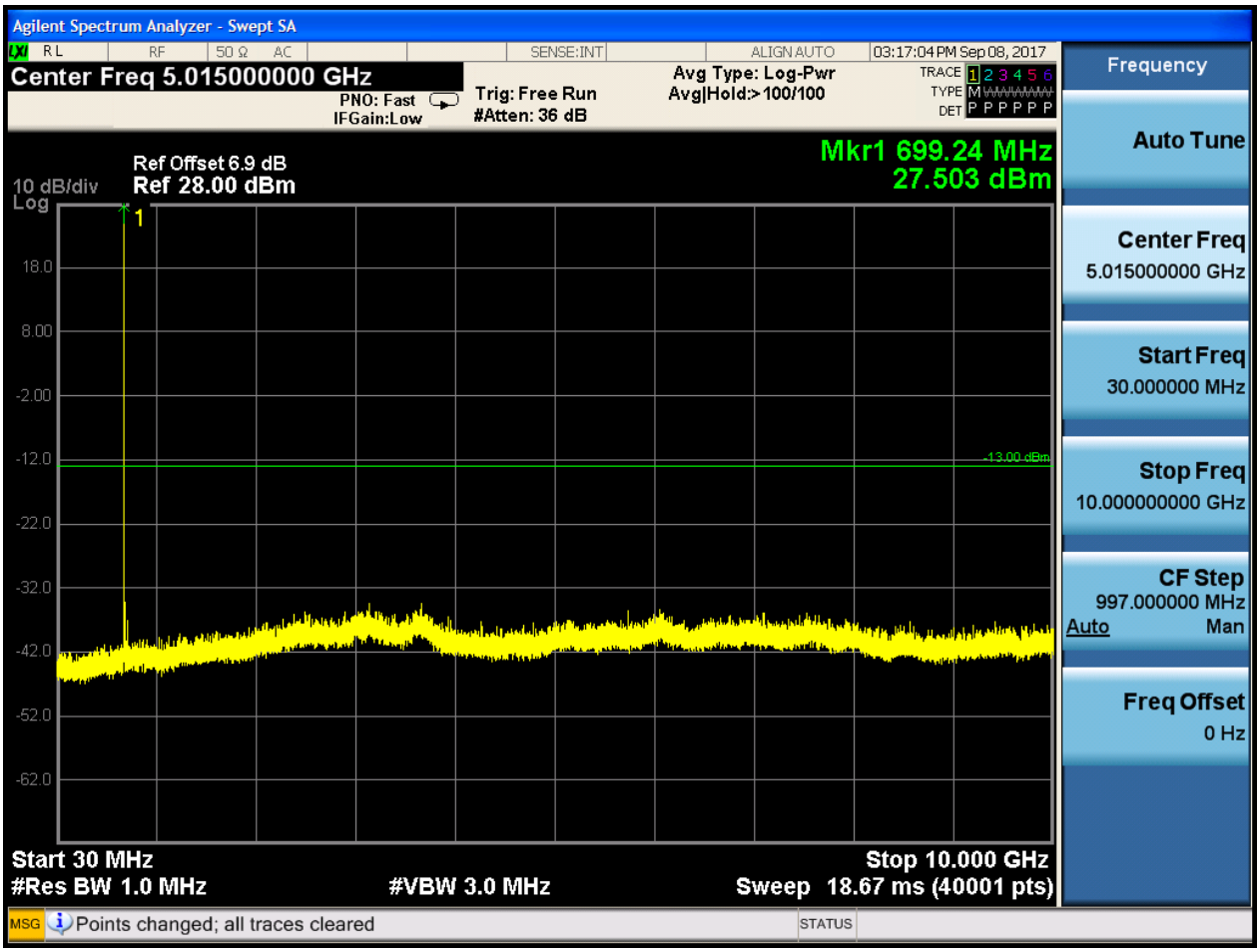

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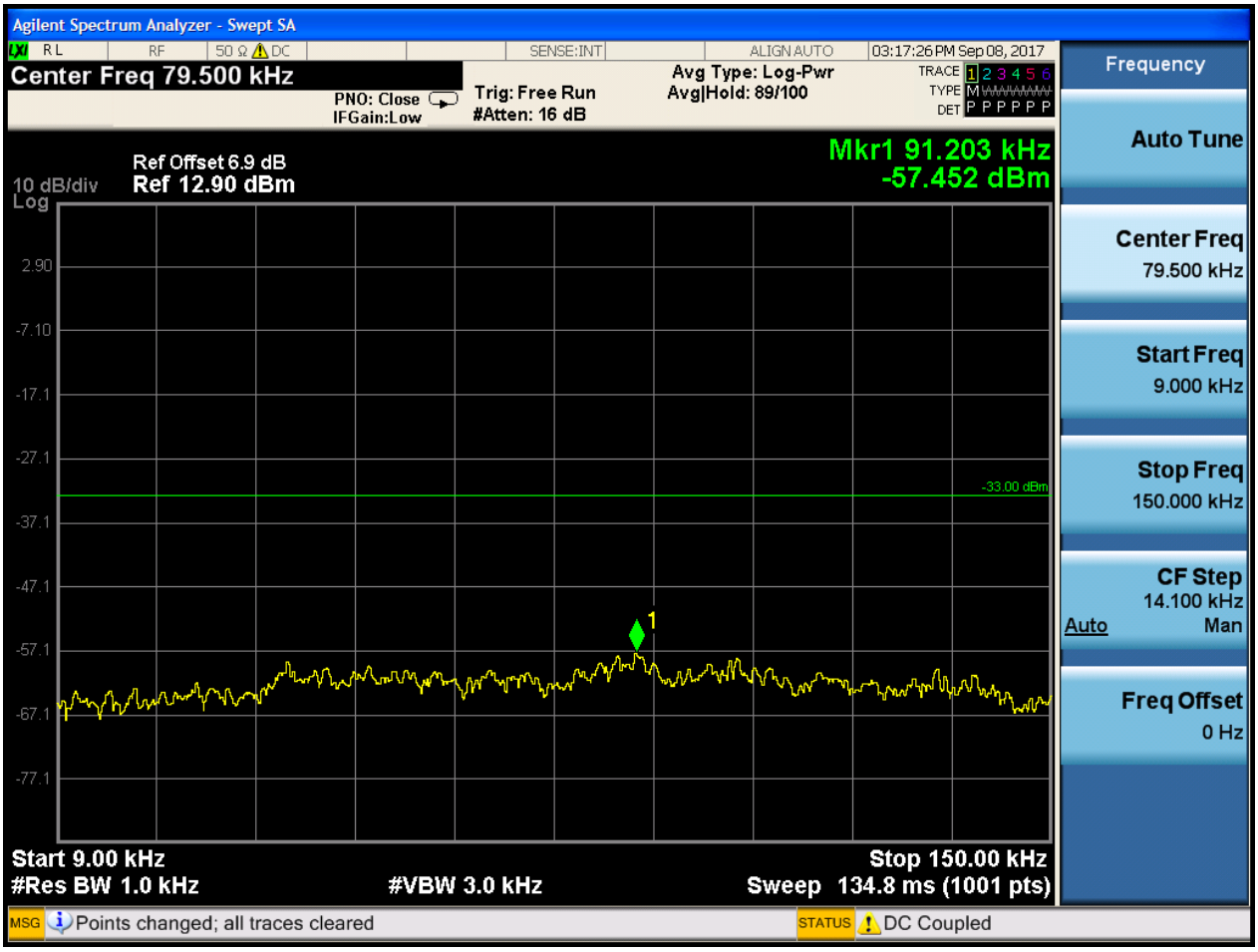
6.1.1.1.2.2 Test Channel = MCH

6.1.1.1.2.2.1 Test RB = RB1#0



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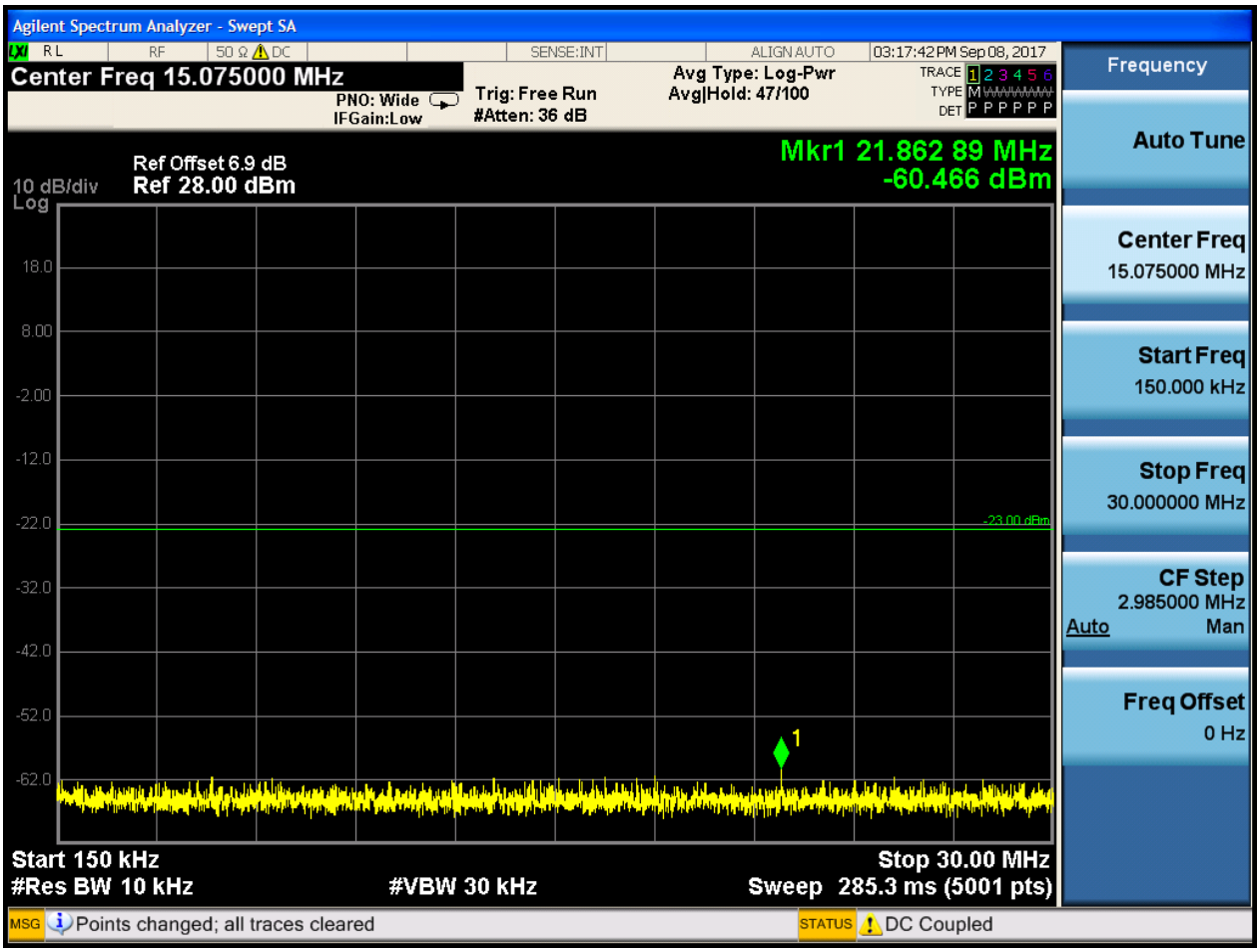

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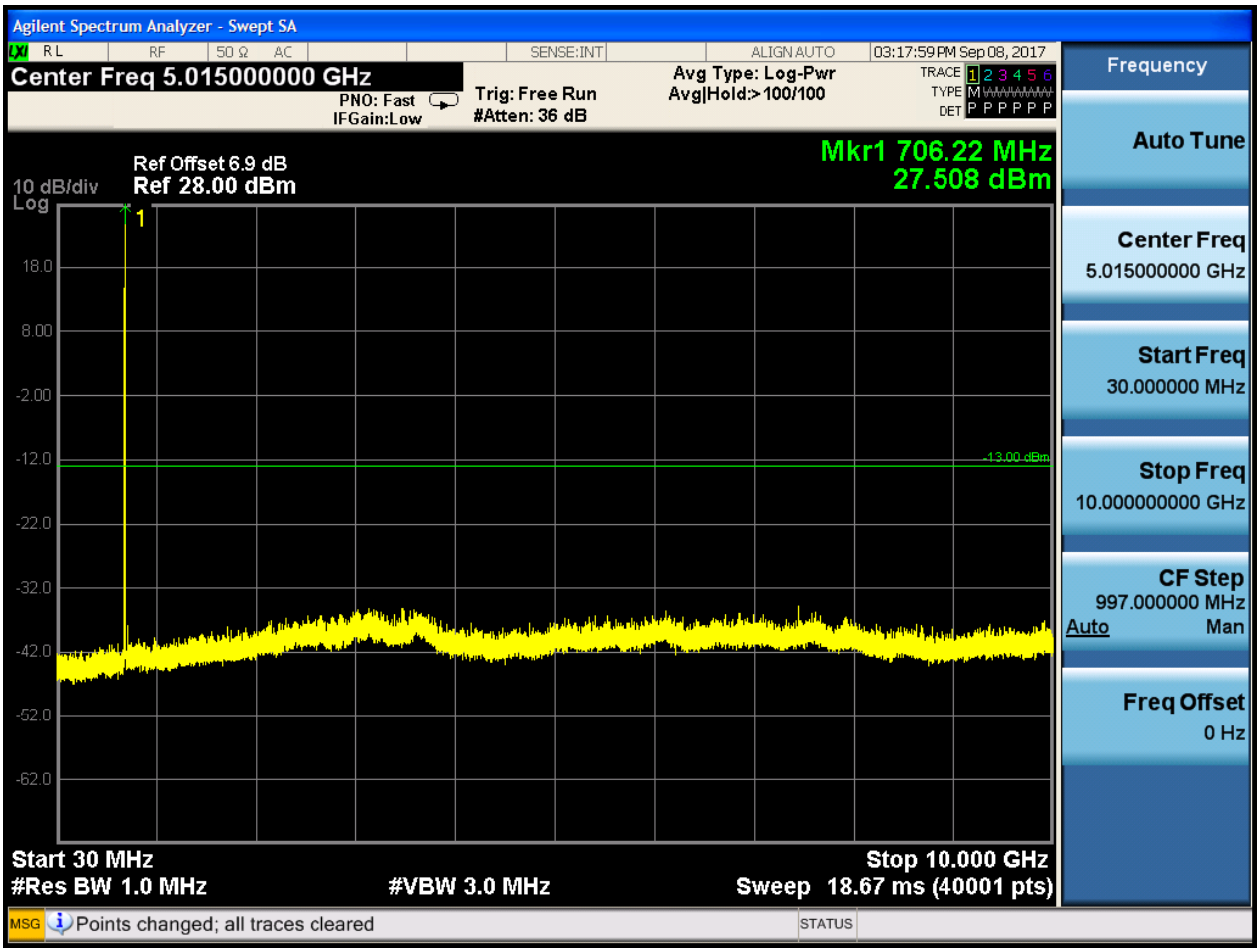

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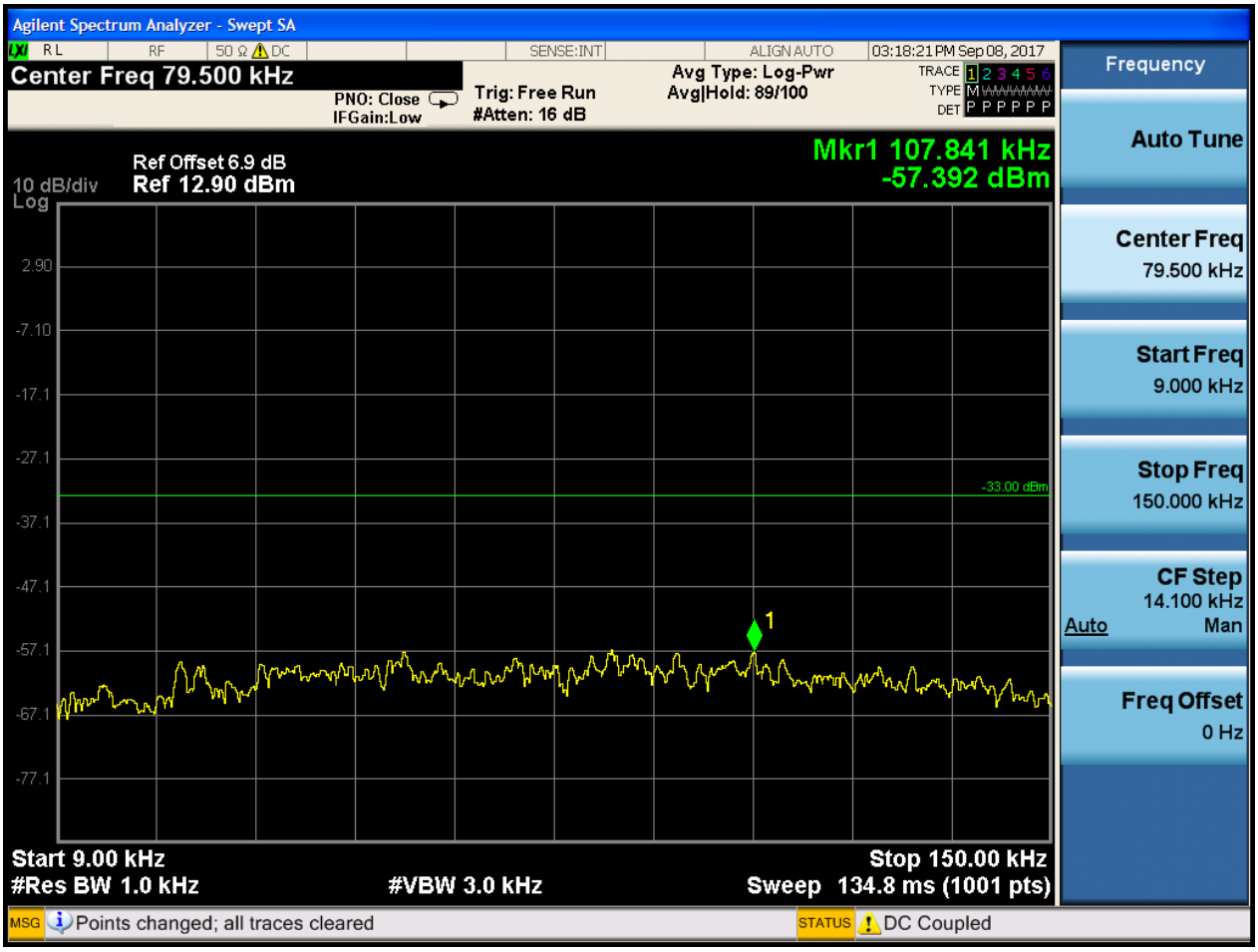
6.1.1.1.2.3 Test Channel = HCH

6.1.1.1.2.3.1 Test RB = RB1#0



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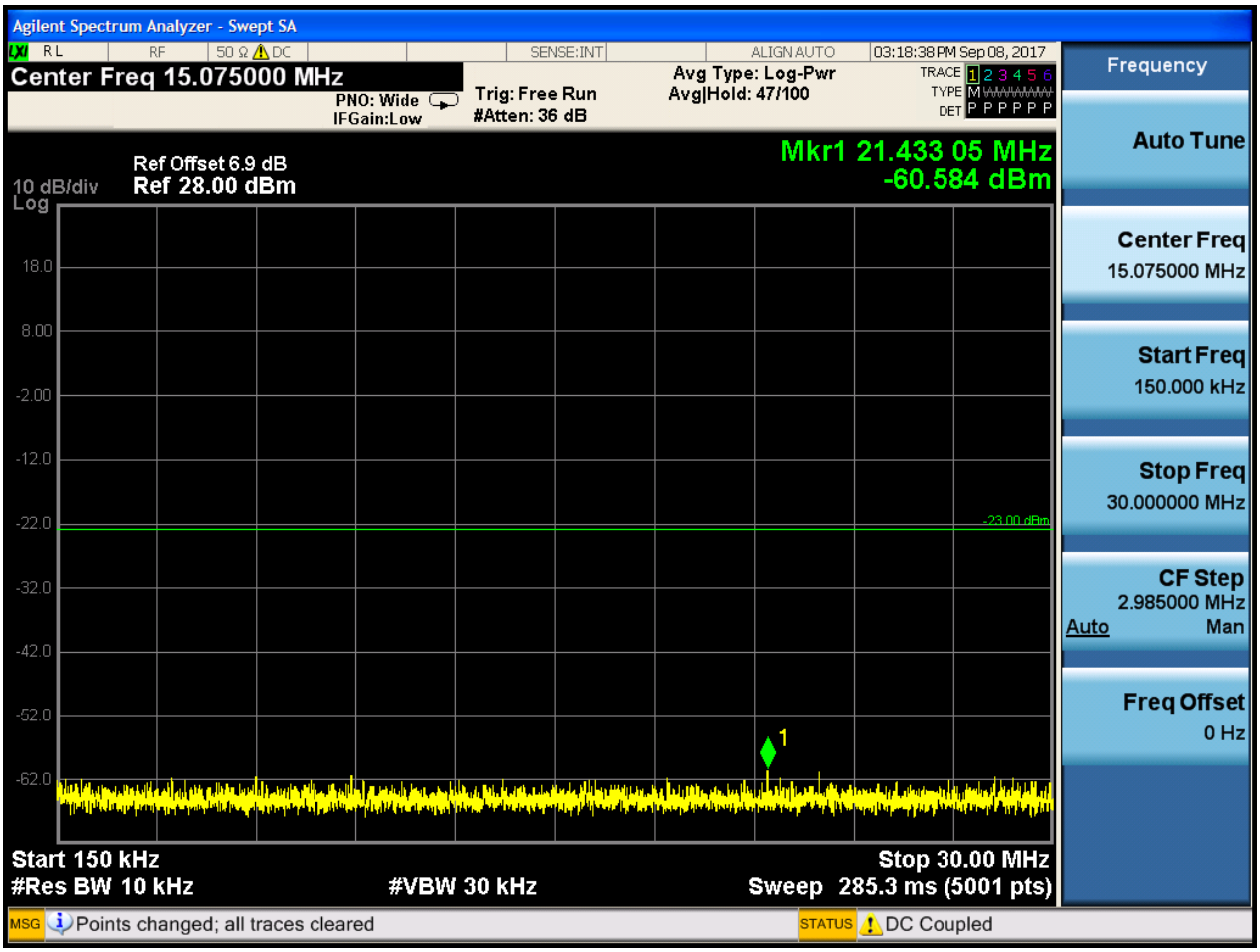

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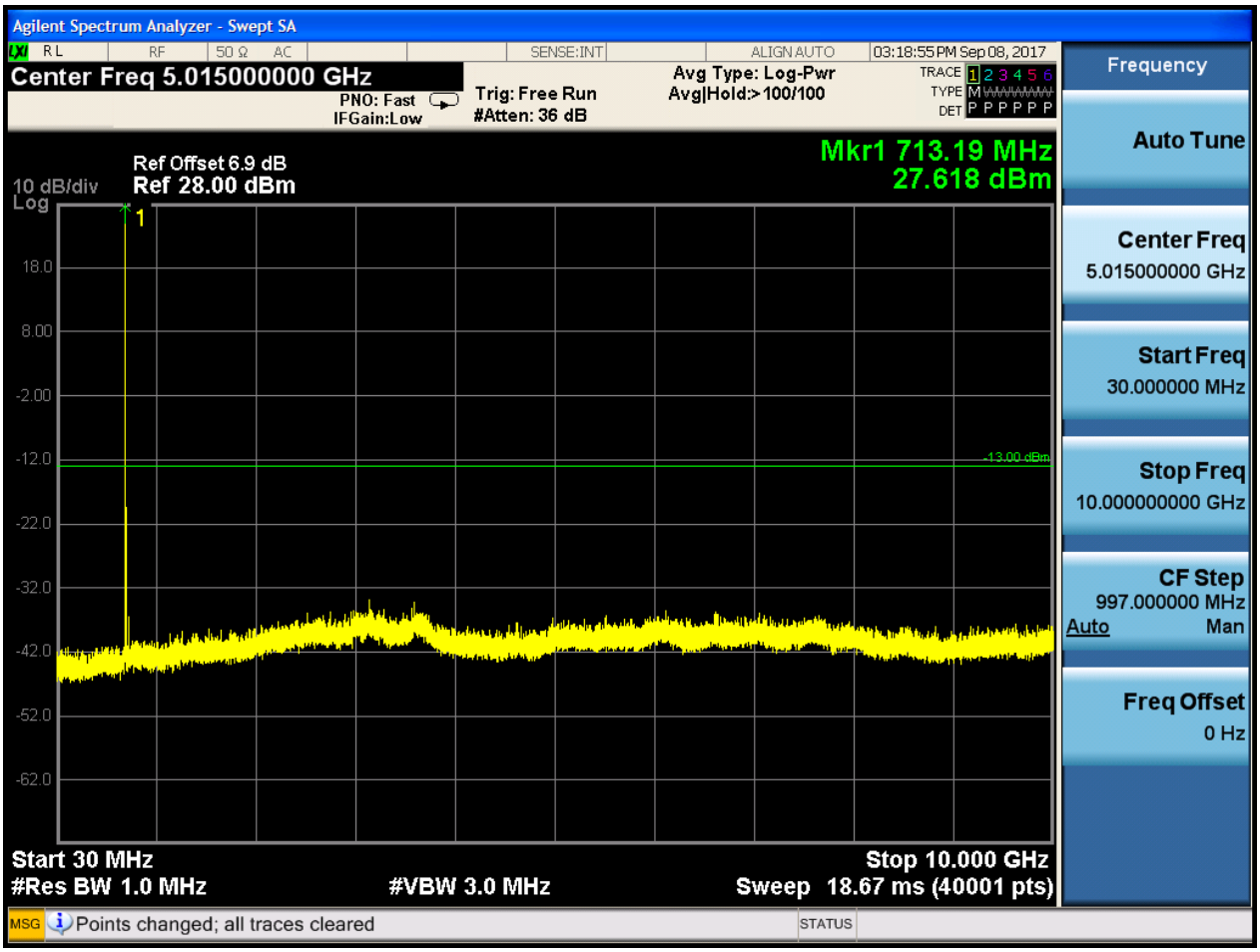

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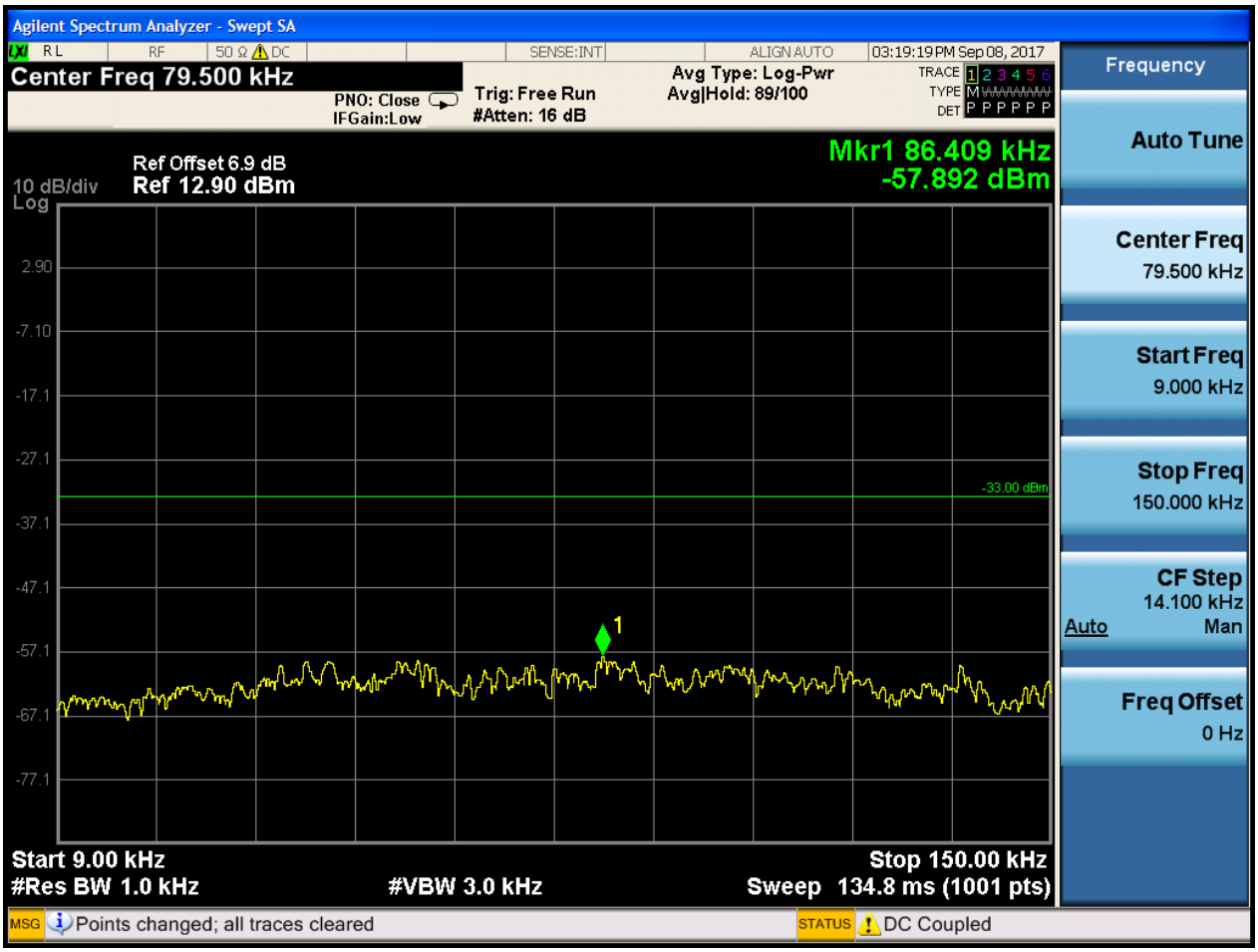
6.1.1.1.3 Test Bandwidth = 5

6.1.1.1.3.1 Test Channel = LCH

6.1.1.1.3.1.1 Test RB = RB1#0



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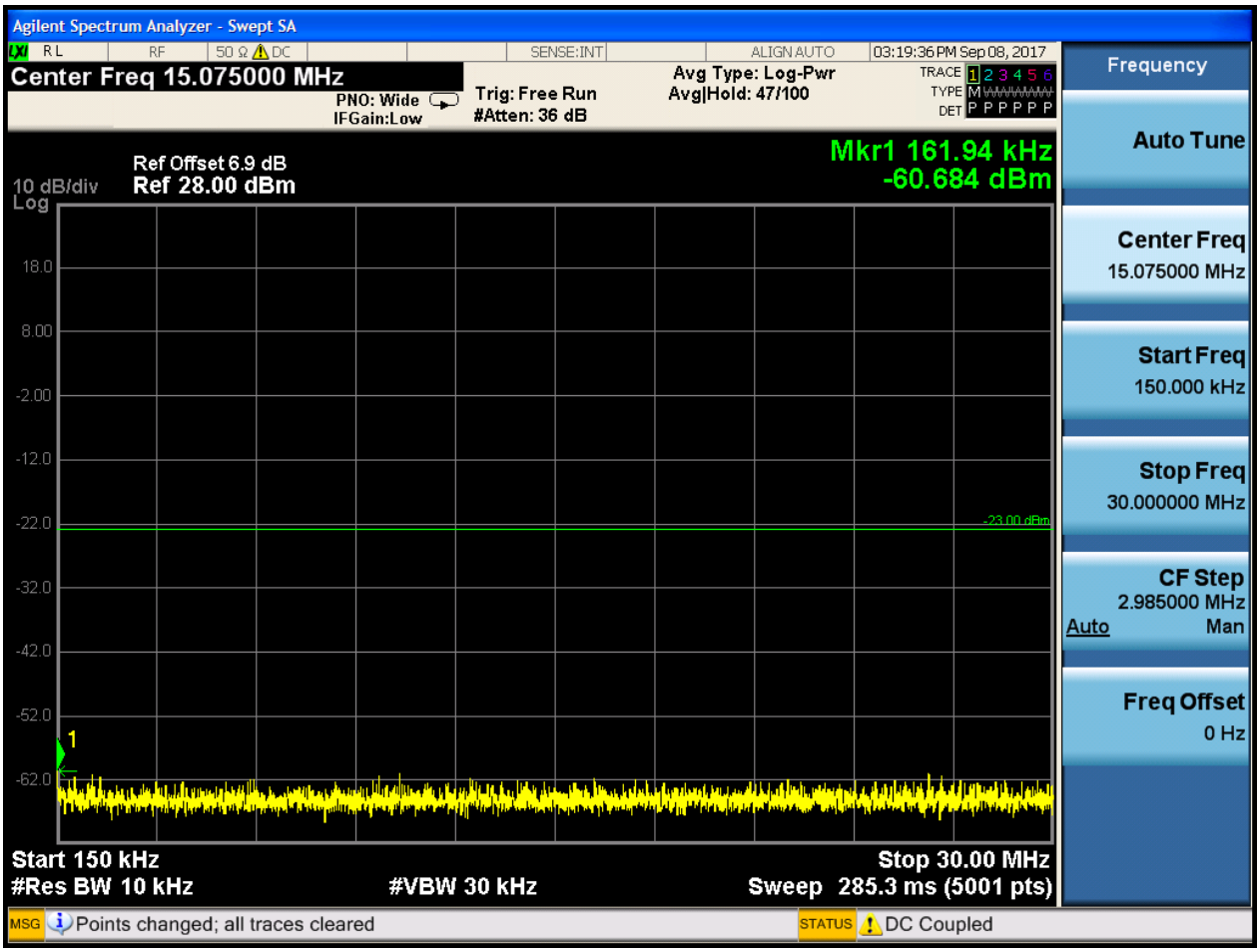

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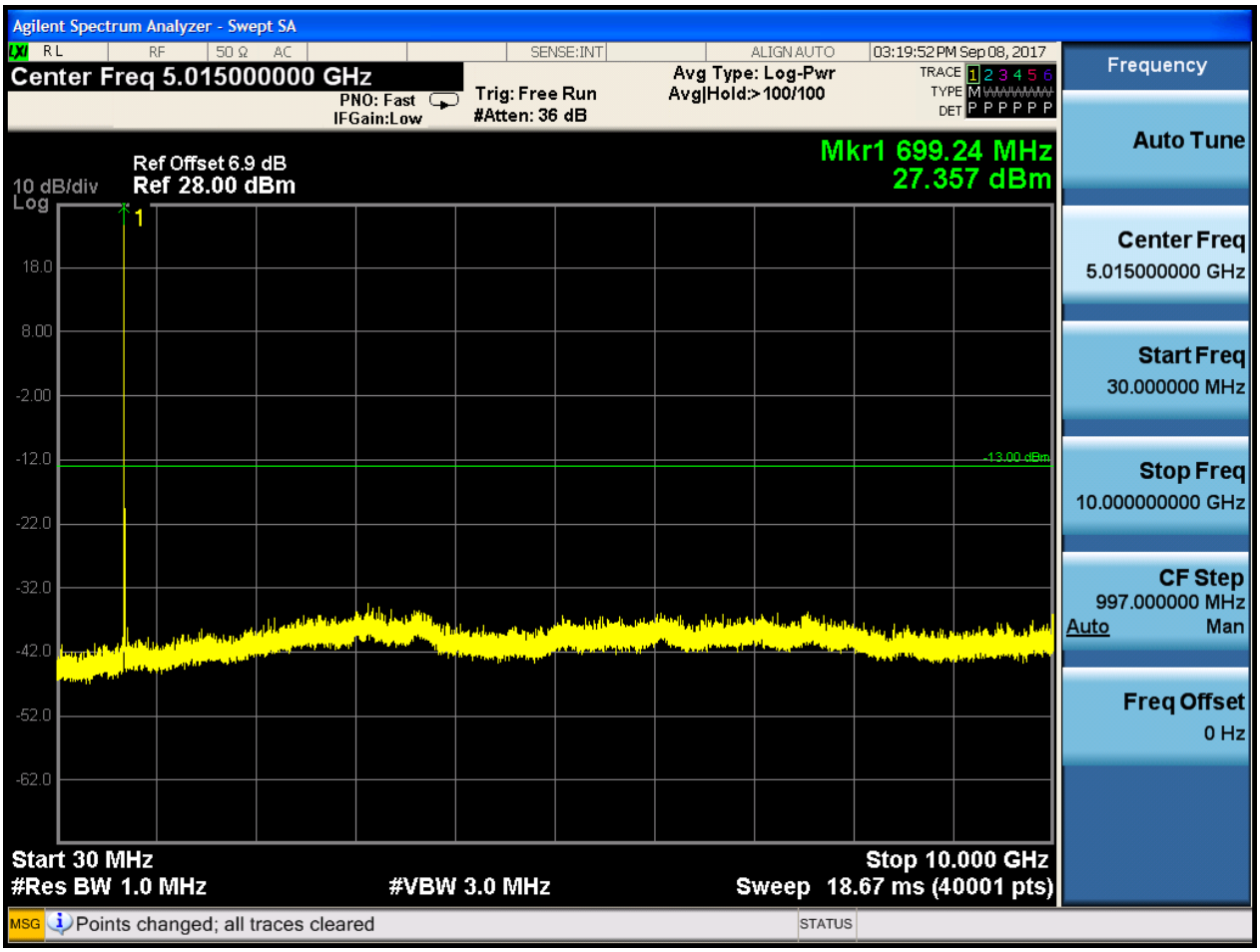

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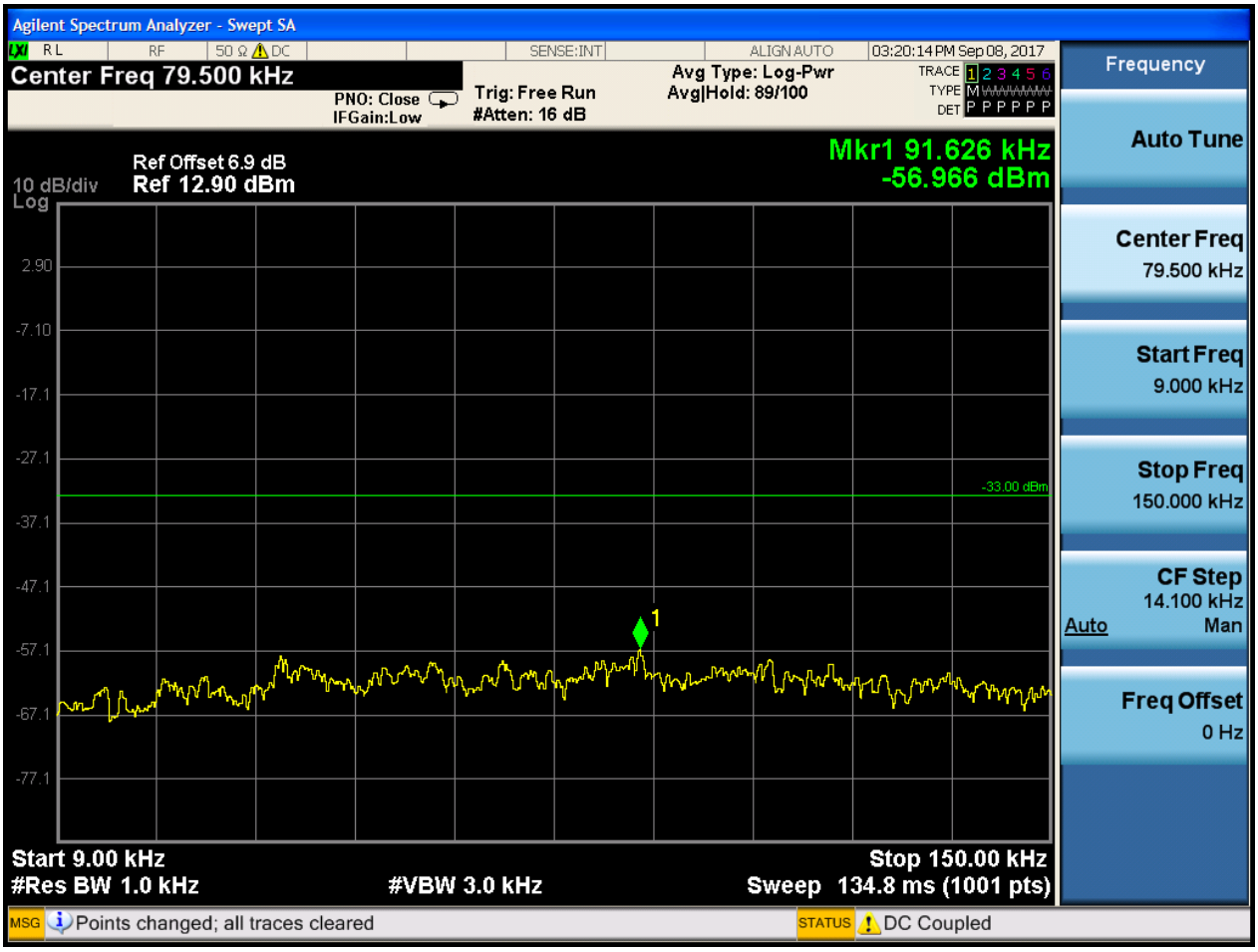
6.1.1.1.3.2 Test Channel = MCH

6.1.1.1.3.2.1 Test RB = RB1#0



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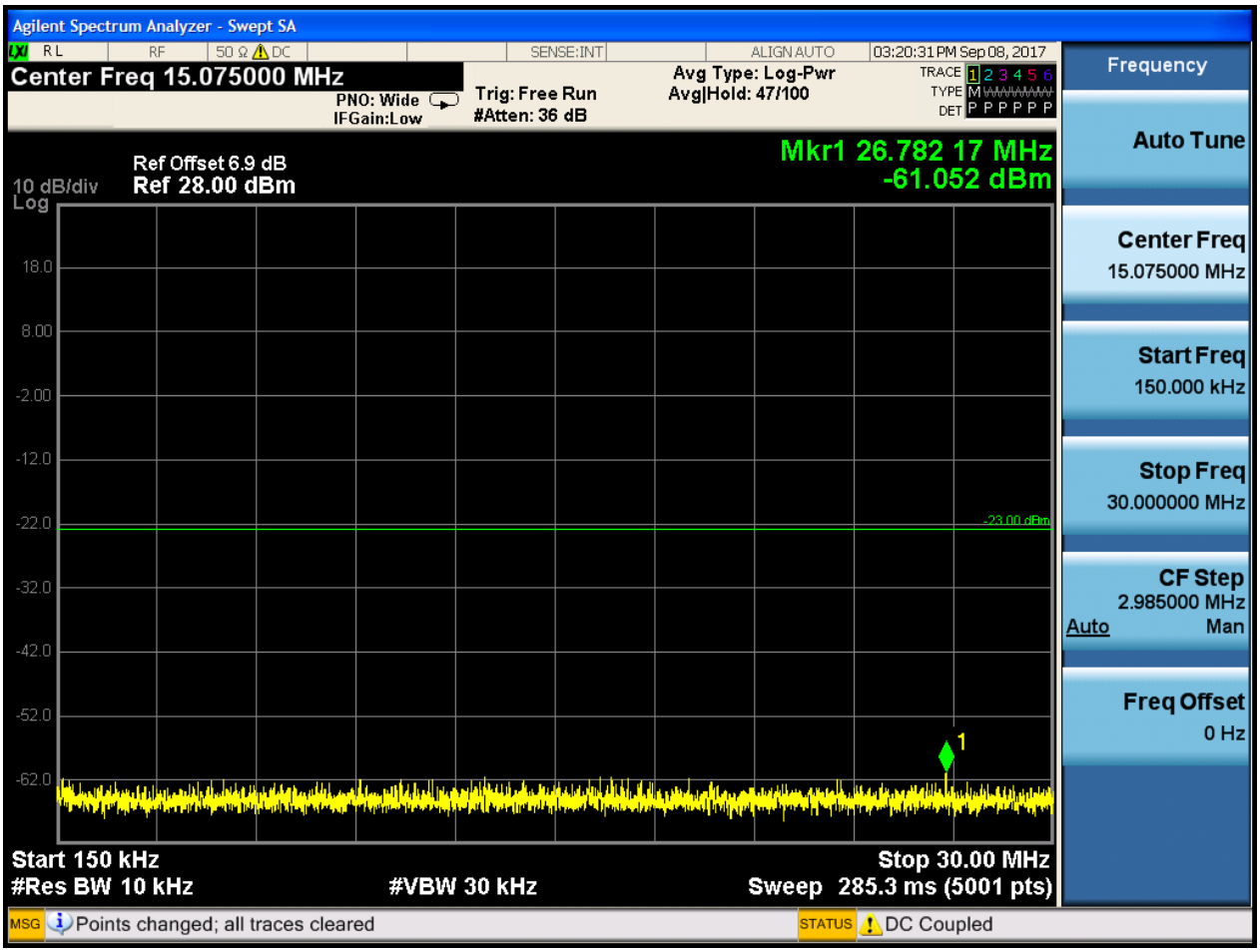

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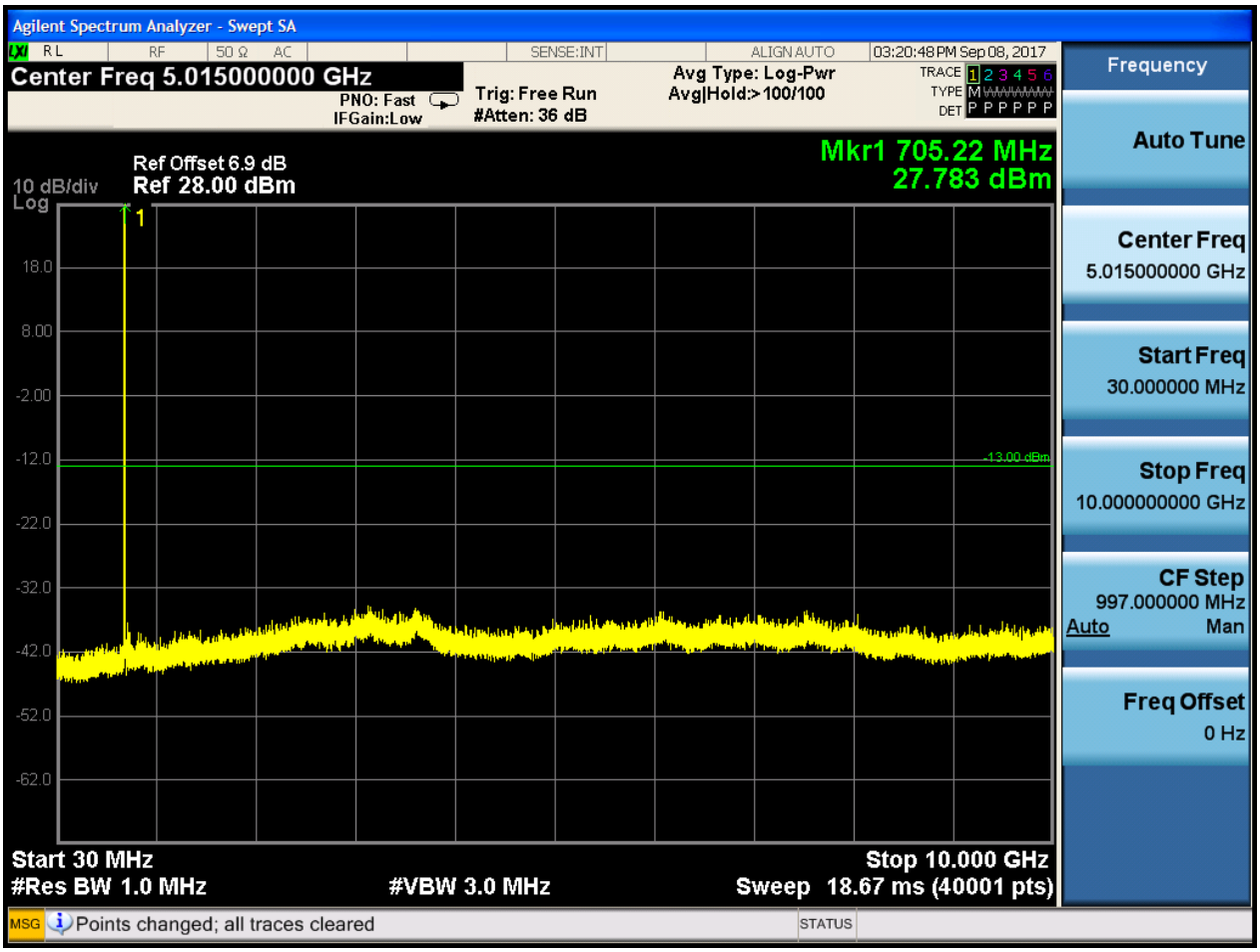

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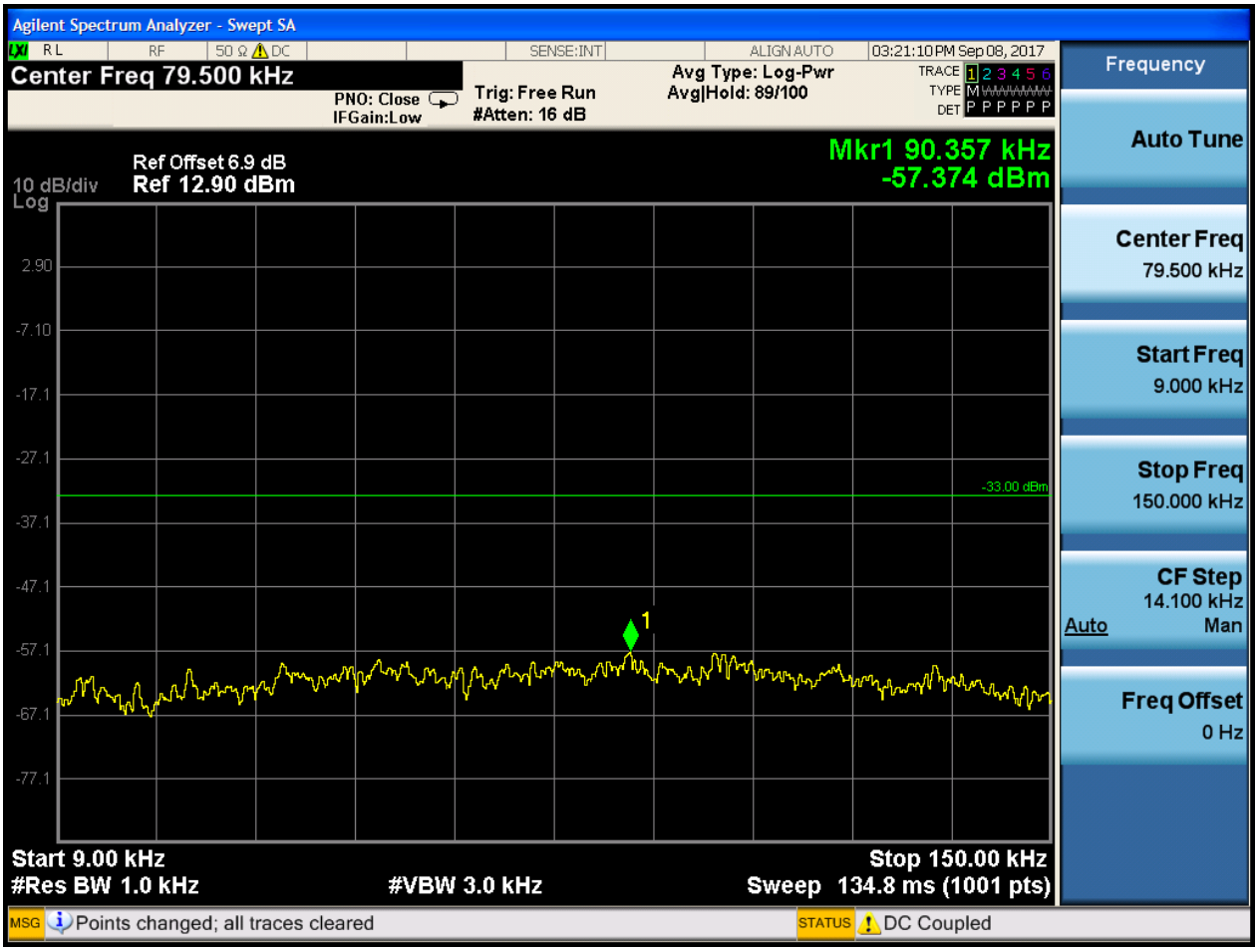
6.1.1.1.3.3 Test Channel = HCH

6.1.1.1.3.3.1 Test RB = RB1#0



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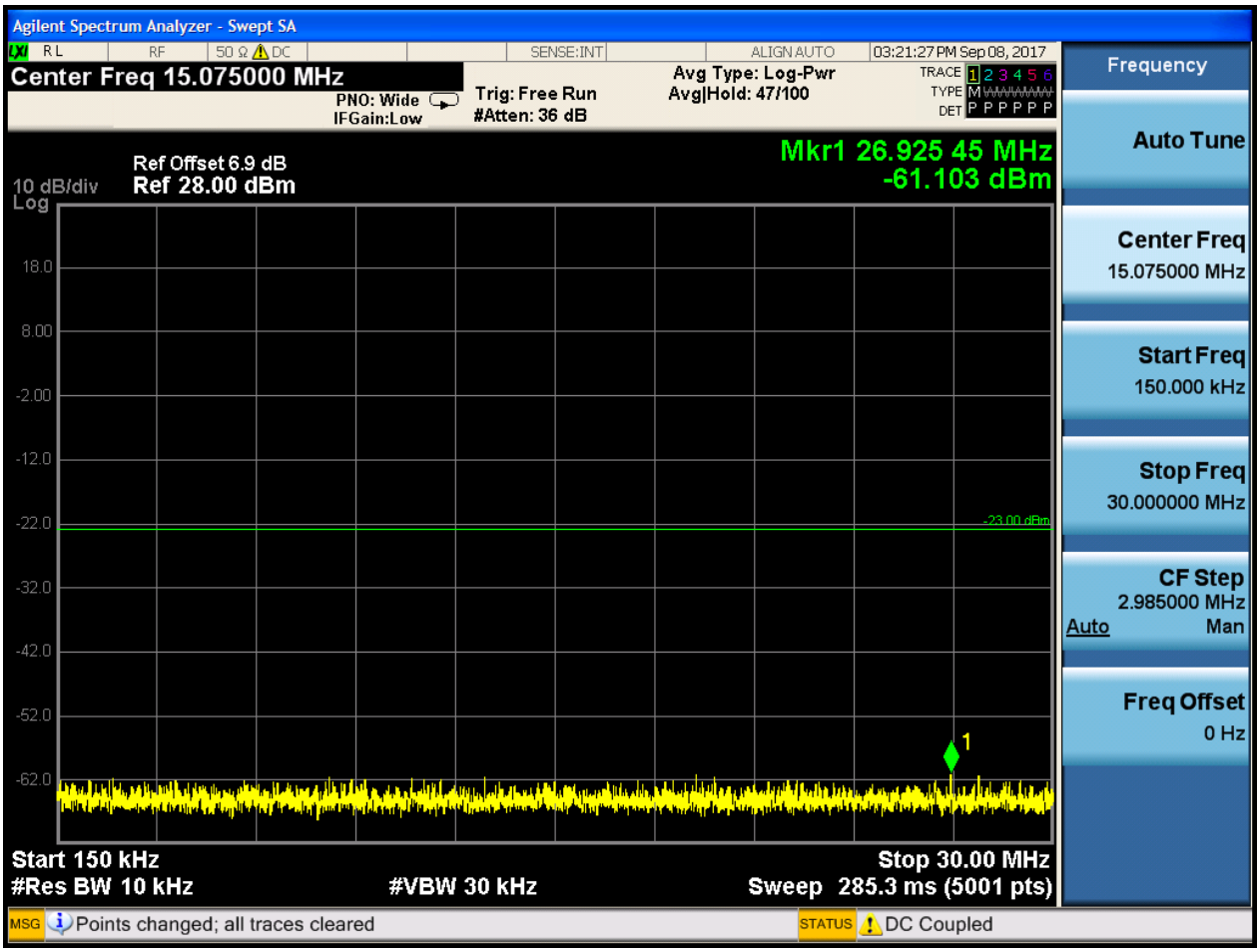

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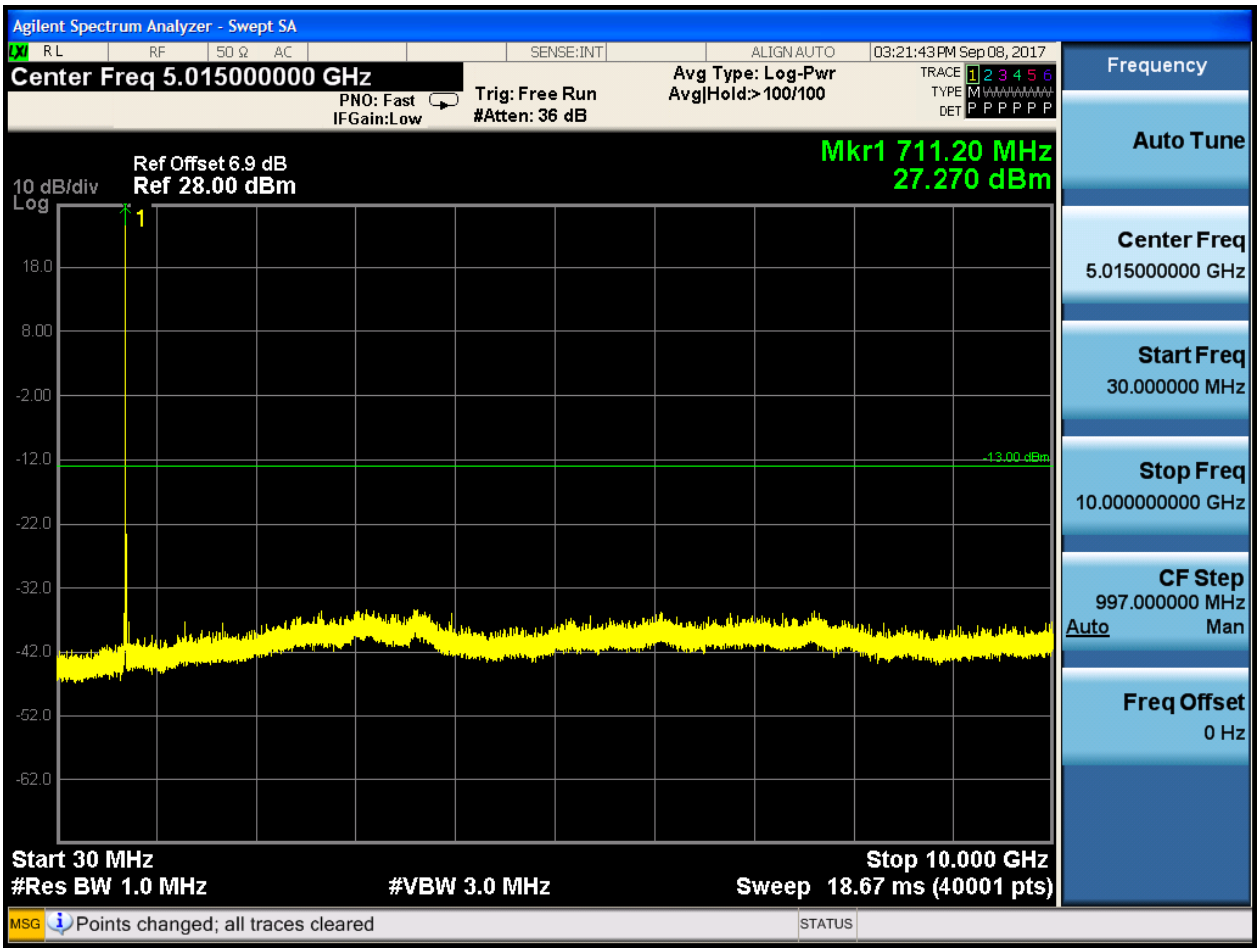

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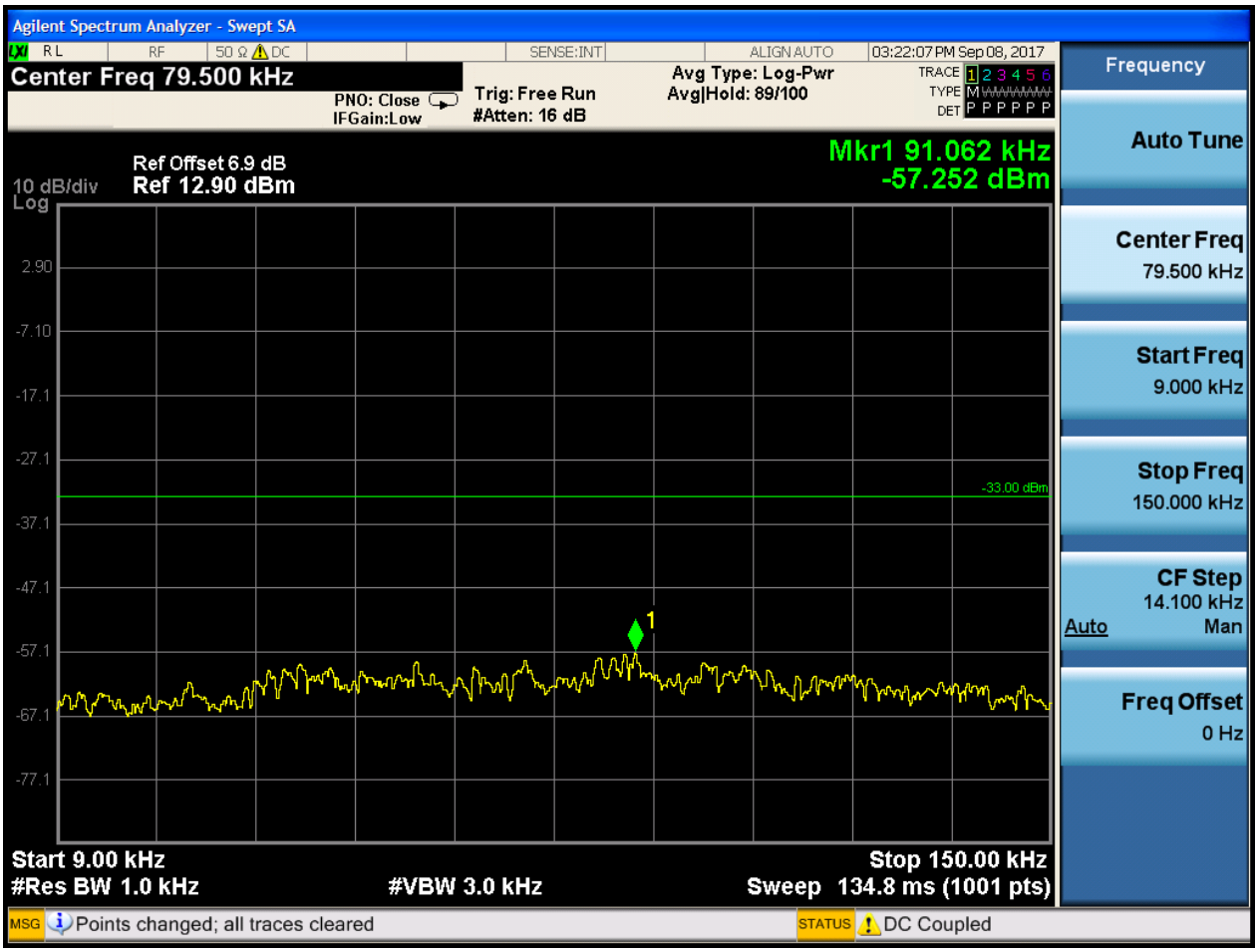
6.1.1.1.4 Test Bandwidth = 10

6.1.1.1.4.1 Test Channel = LCH

6.1.1.1.4.1.1 Test RB = RB1#0



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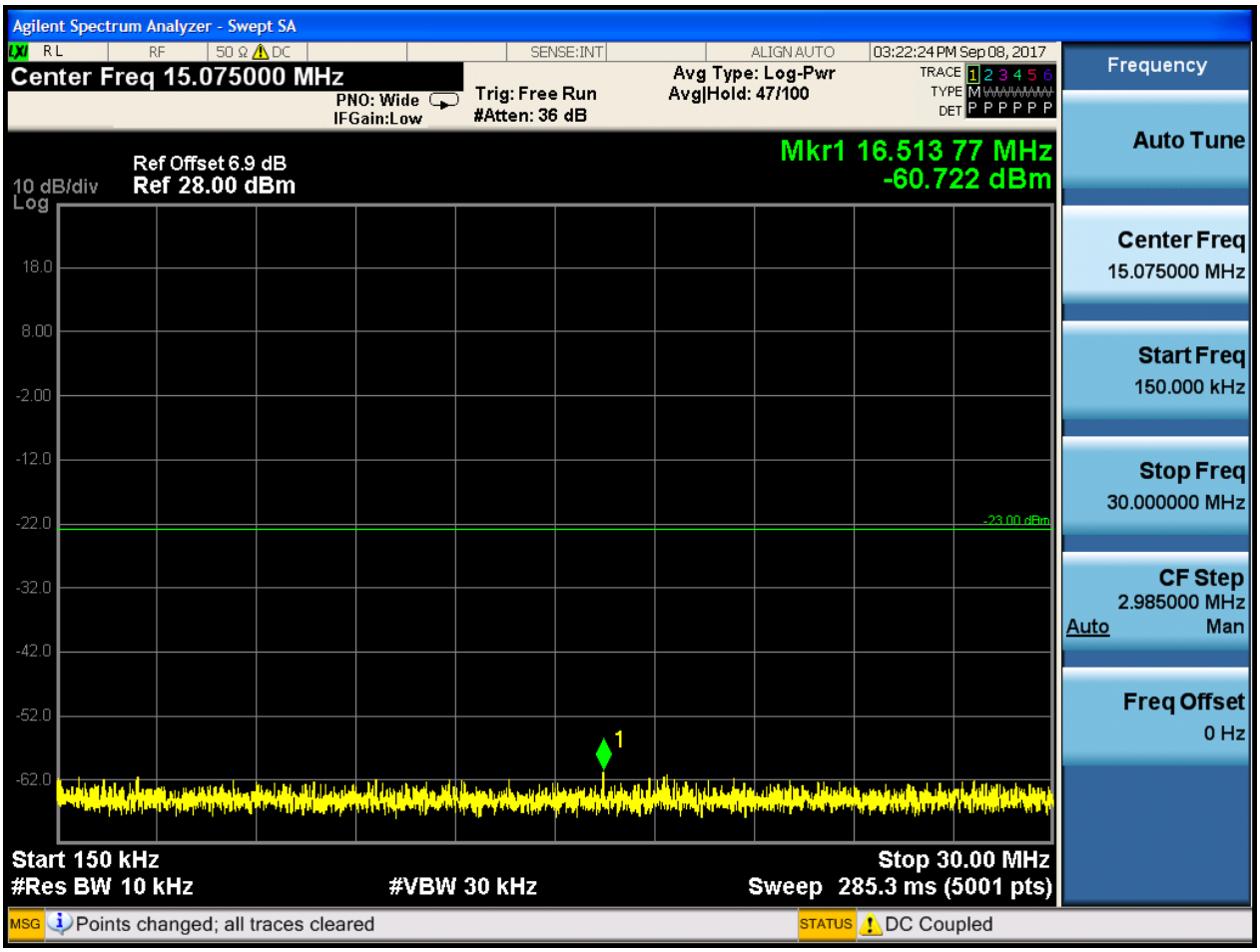

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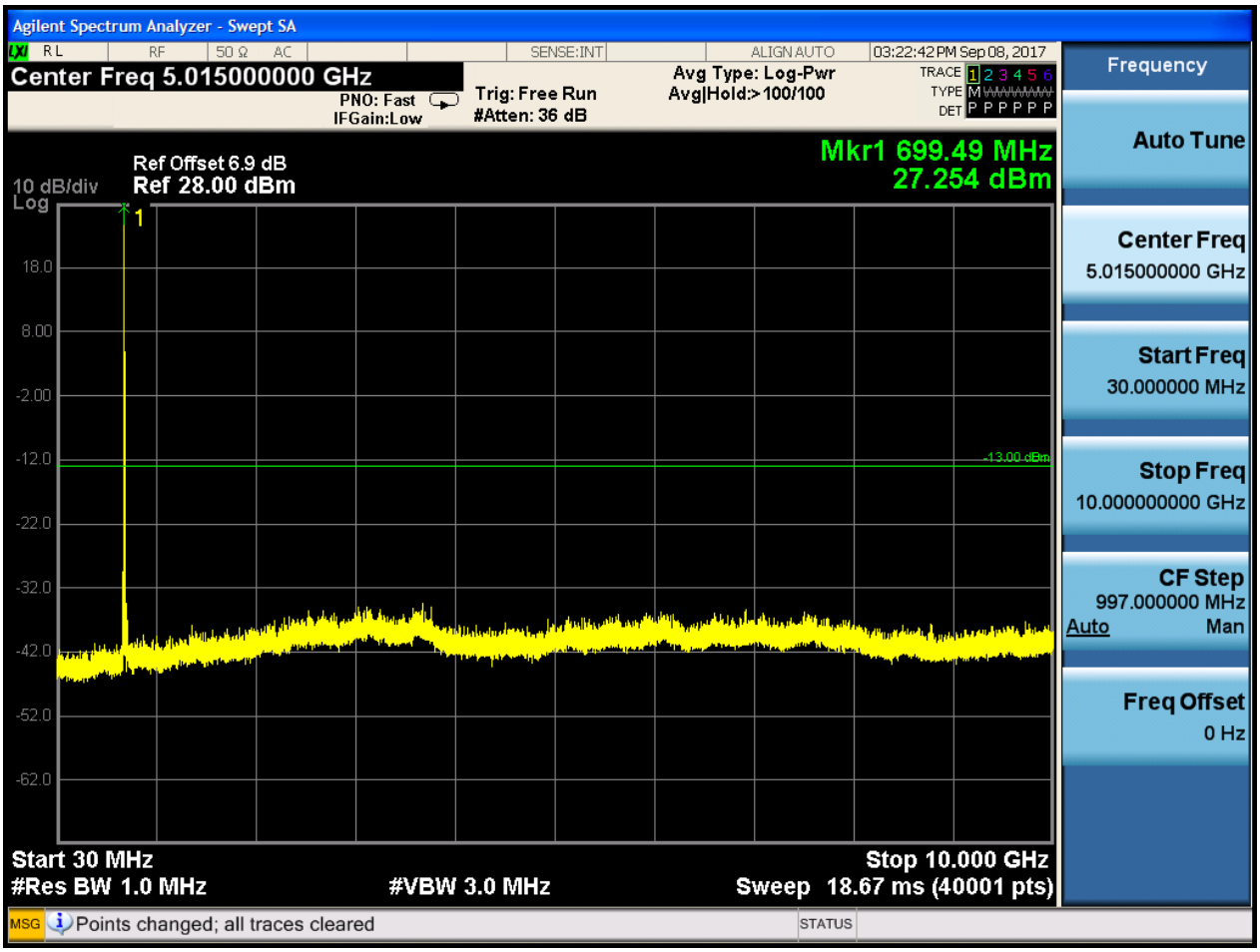

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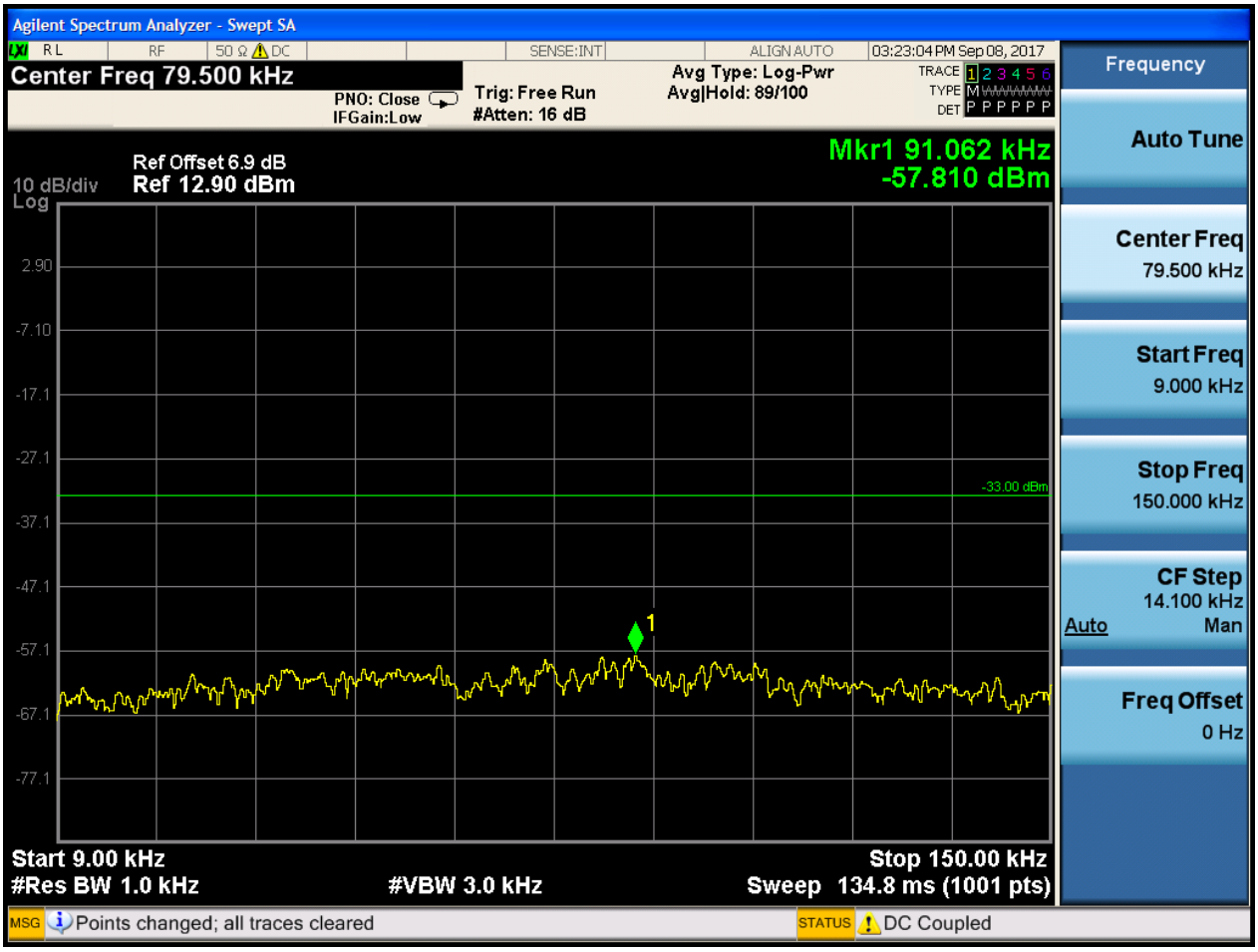
6.1.1.1.4.2 Test Channel = MCH

6.1.1.1.4.2.1 Test RB = RB1#0



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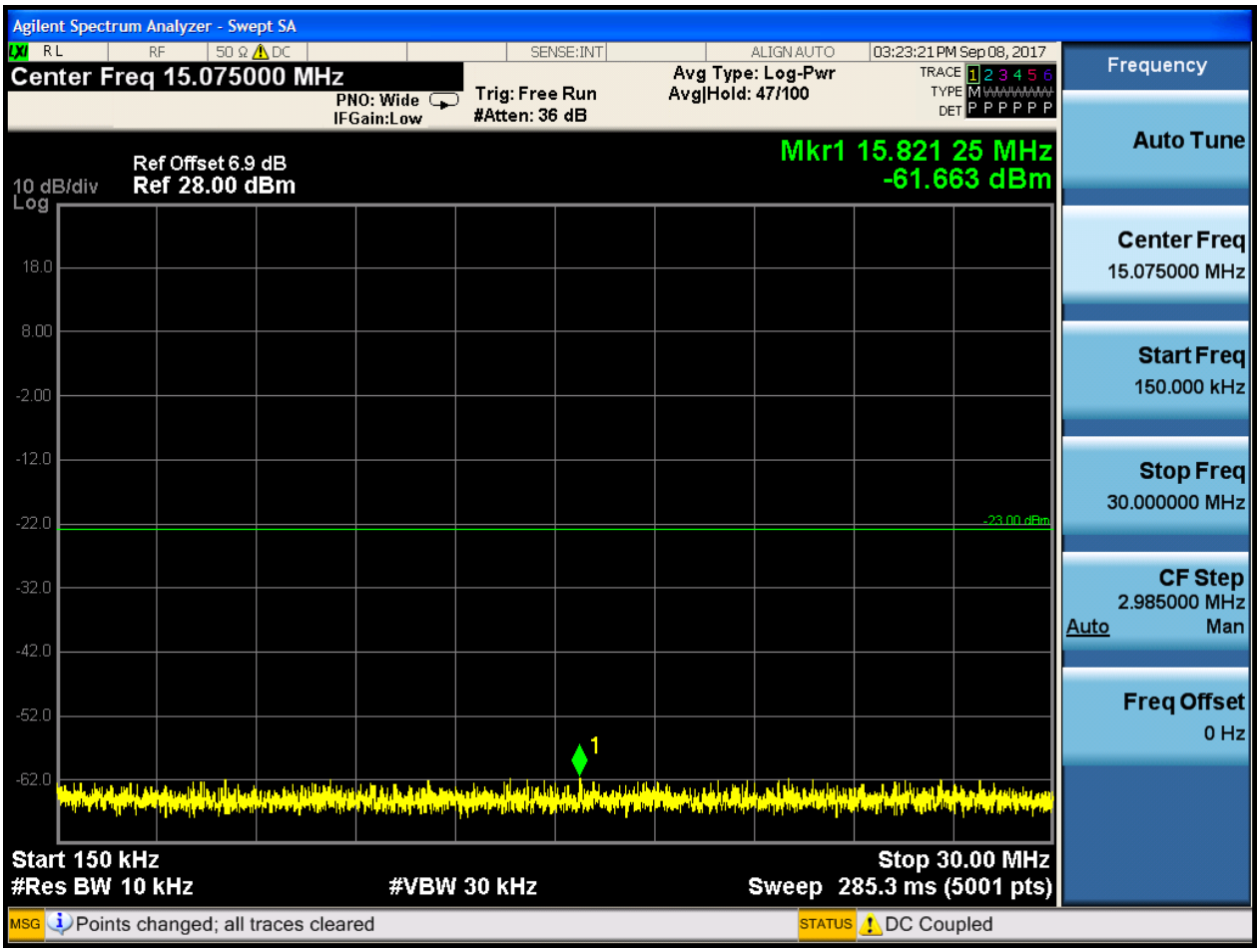

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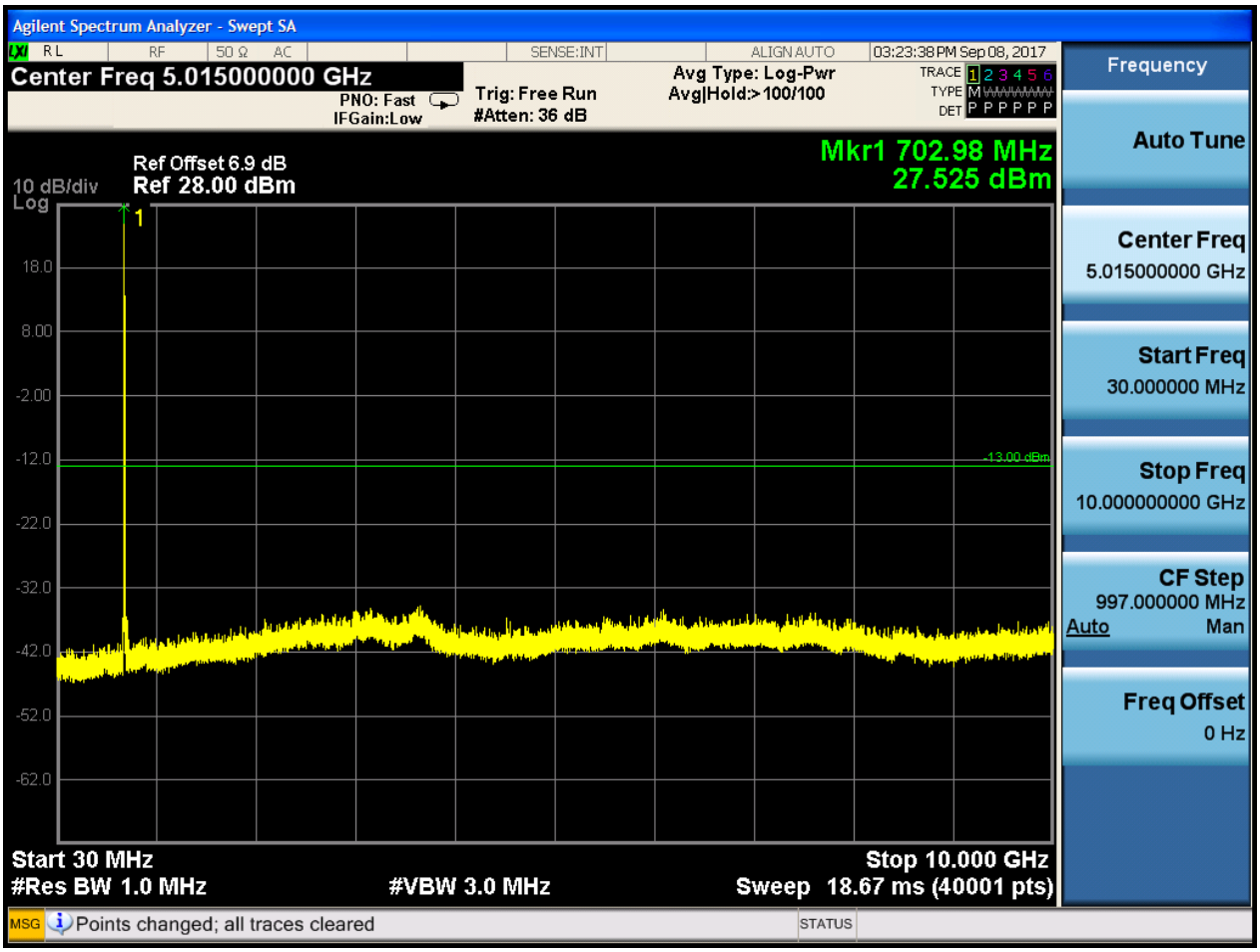

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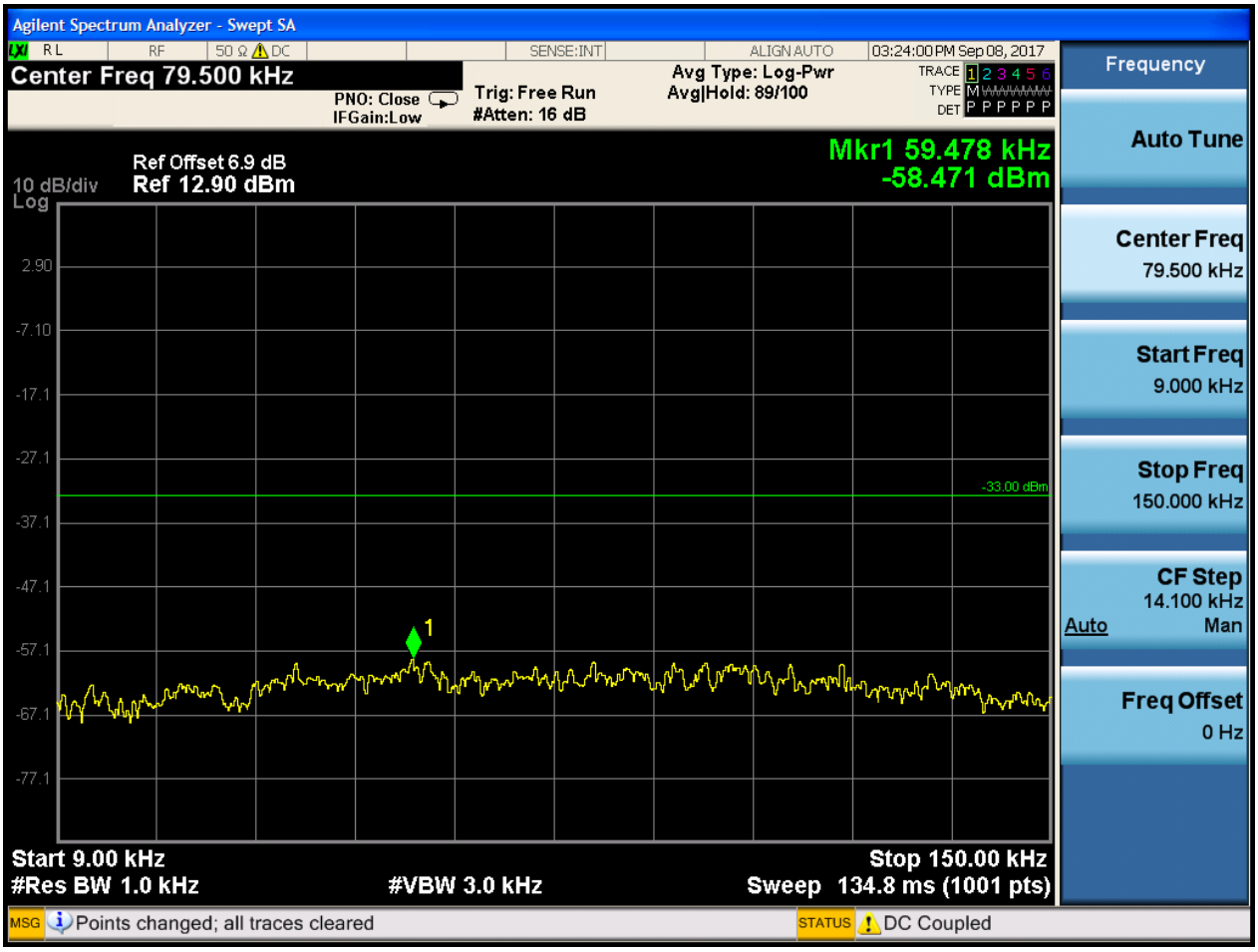
6.1.1.1.4.3 Test Channel = HCH

6.1.1.1.4.3.1 Test RB = RB1#0



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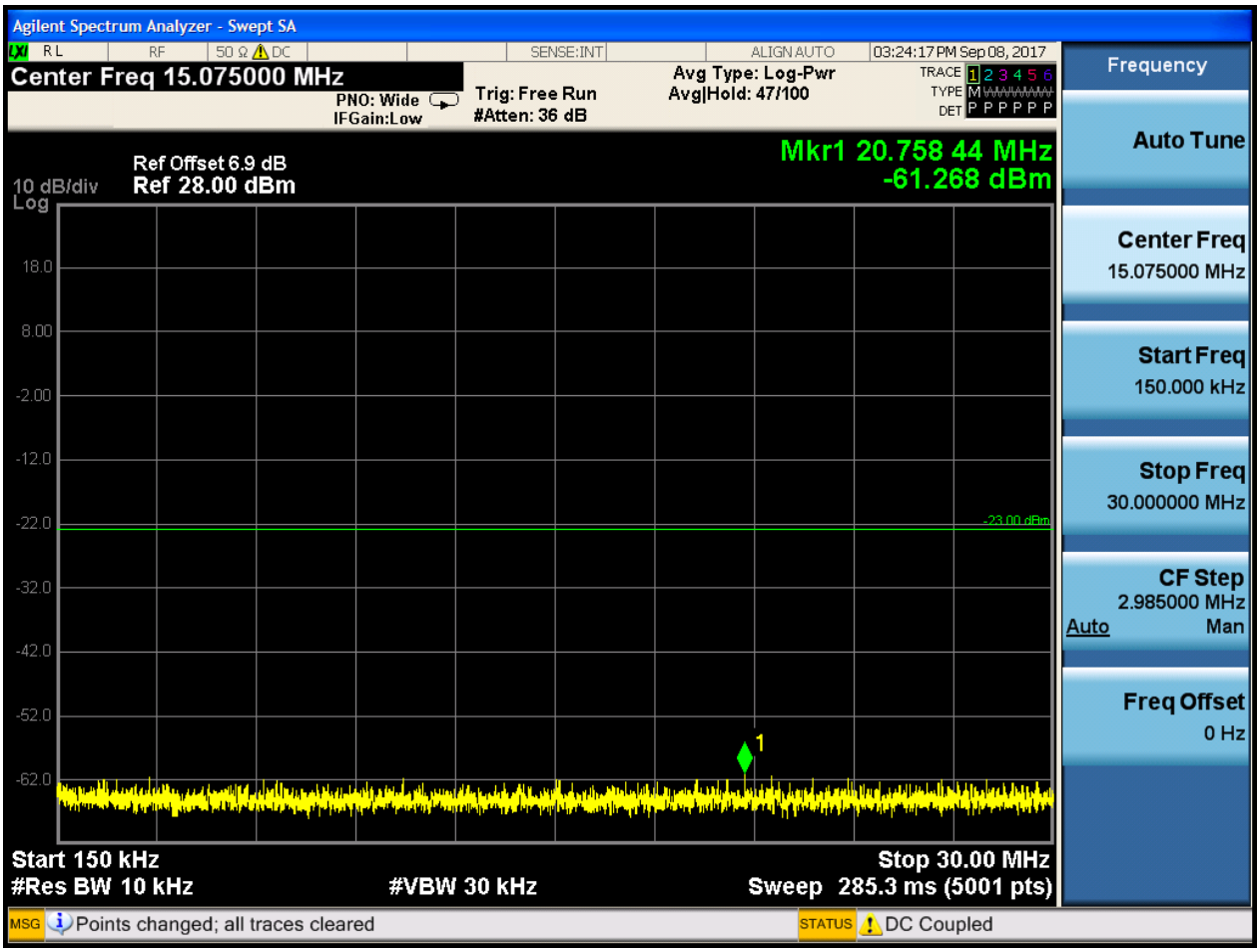

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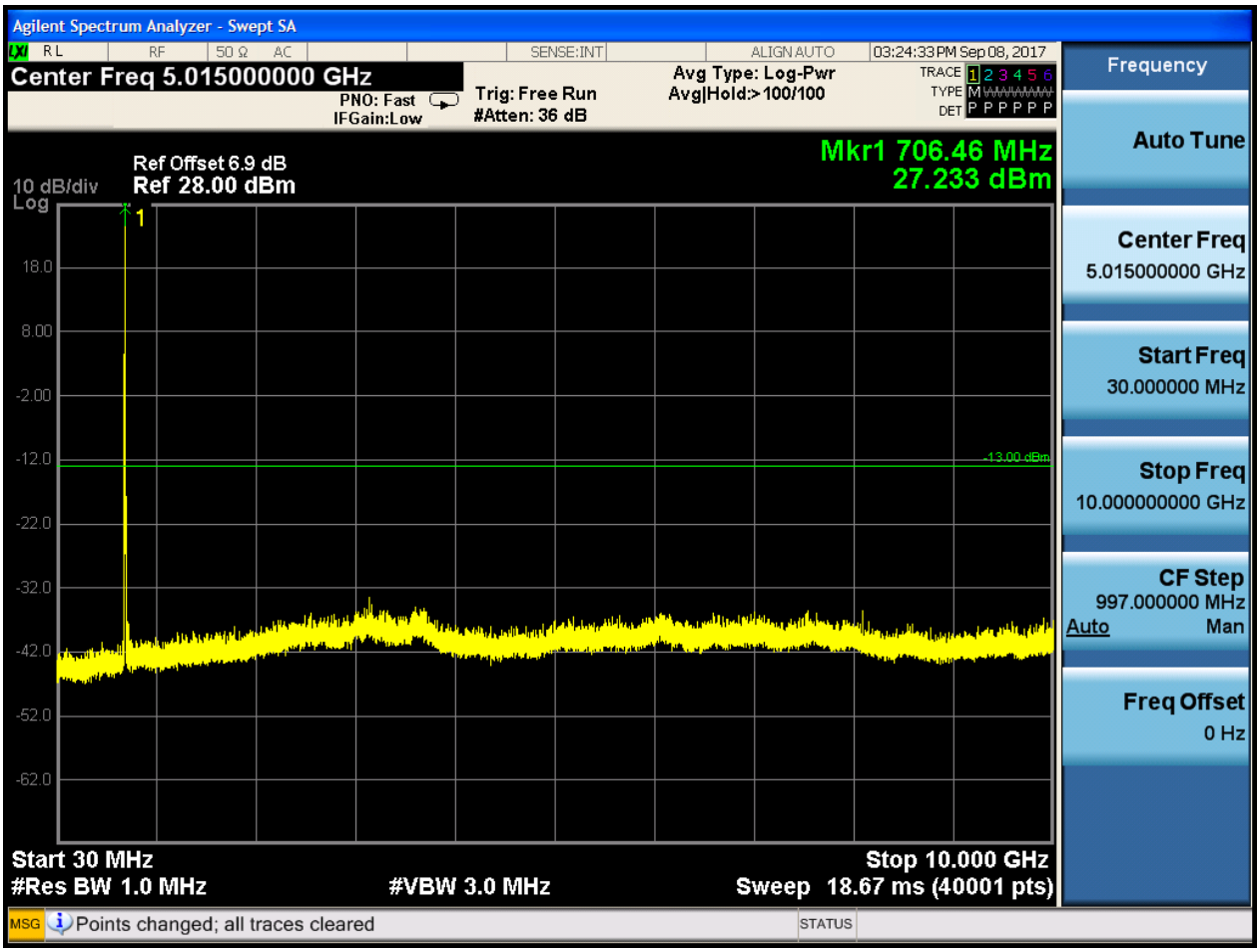

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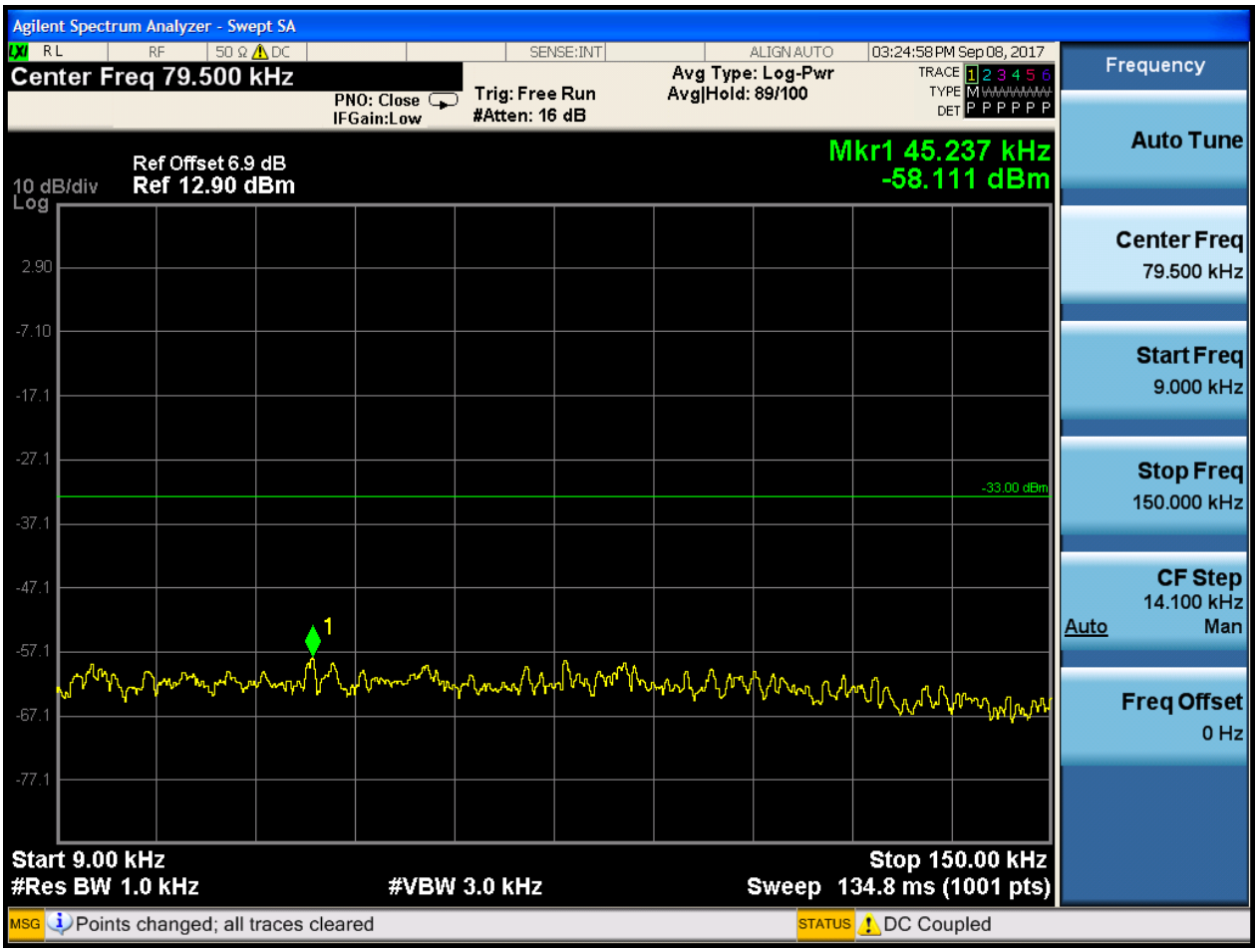
6.1.1.2 Test Mode = LTE/TM2

6.1.1.2.1 Test Bandwidth = 1.4

6.1.1.2.1.1 Test Channel = LCH

6.1.1.2.1.1.1 Test RB = RB1#0



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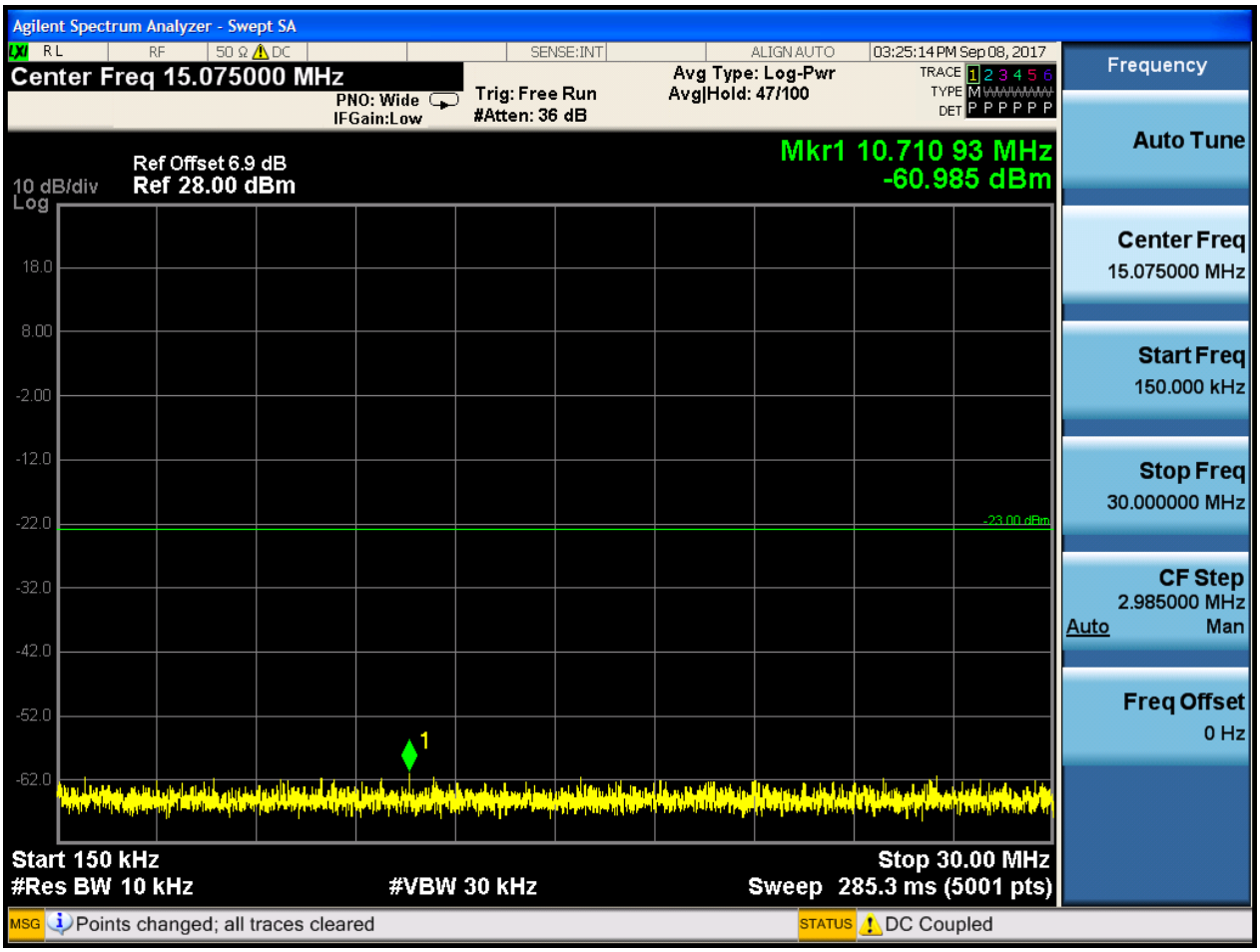

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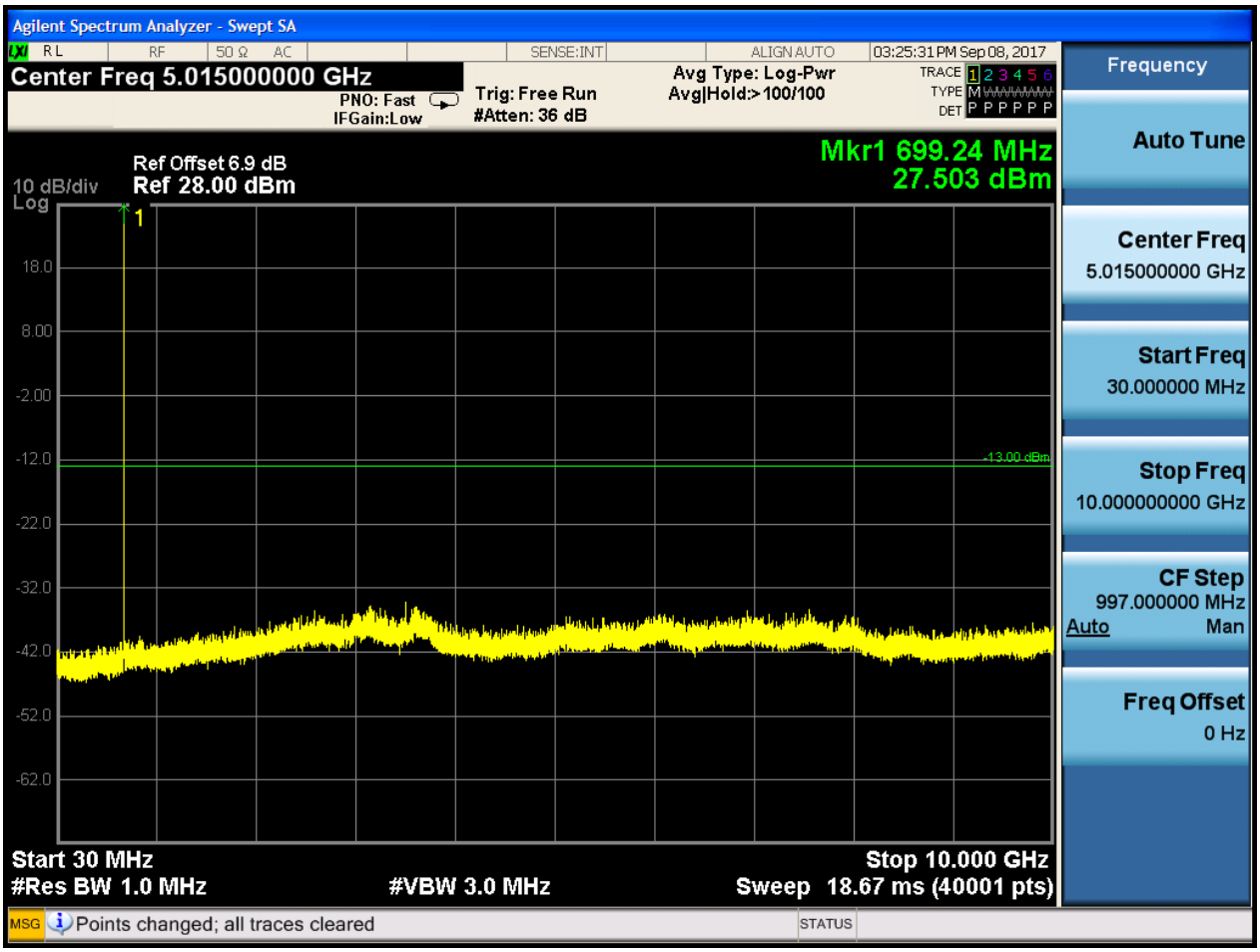

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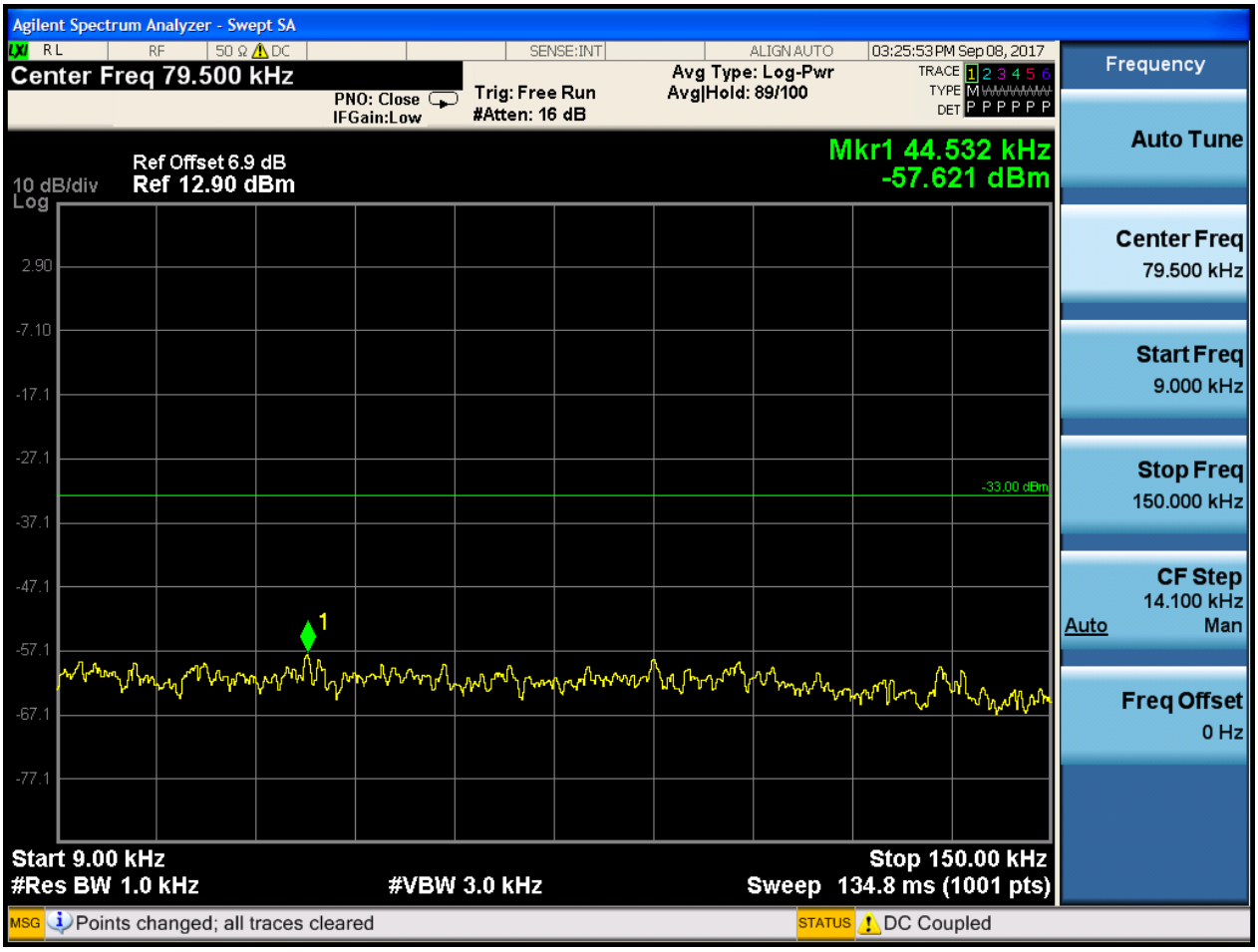
6.1.1.2.1.2 Test Channel = MCH

6.1.1.2.1.2.1 Test RB = RB1#0



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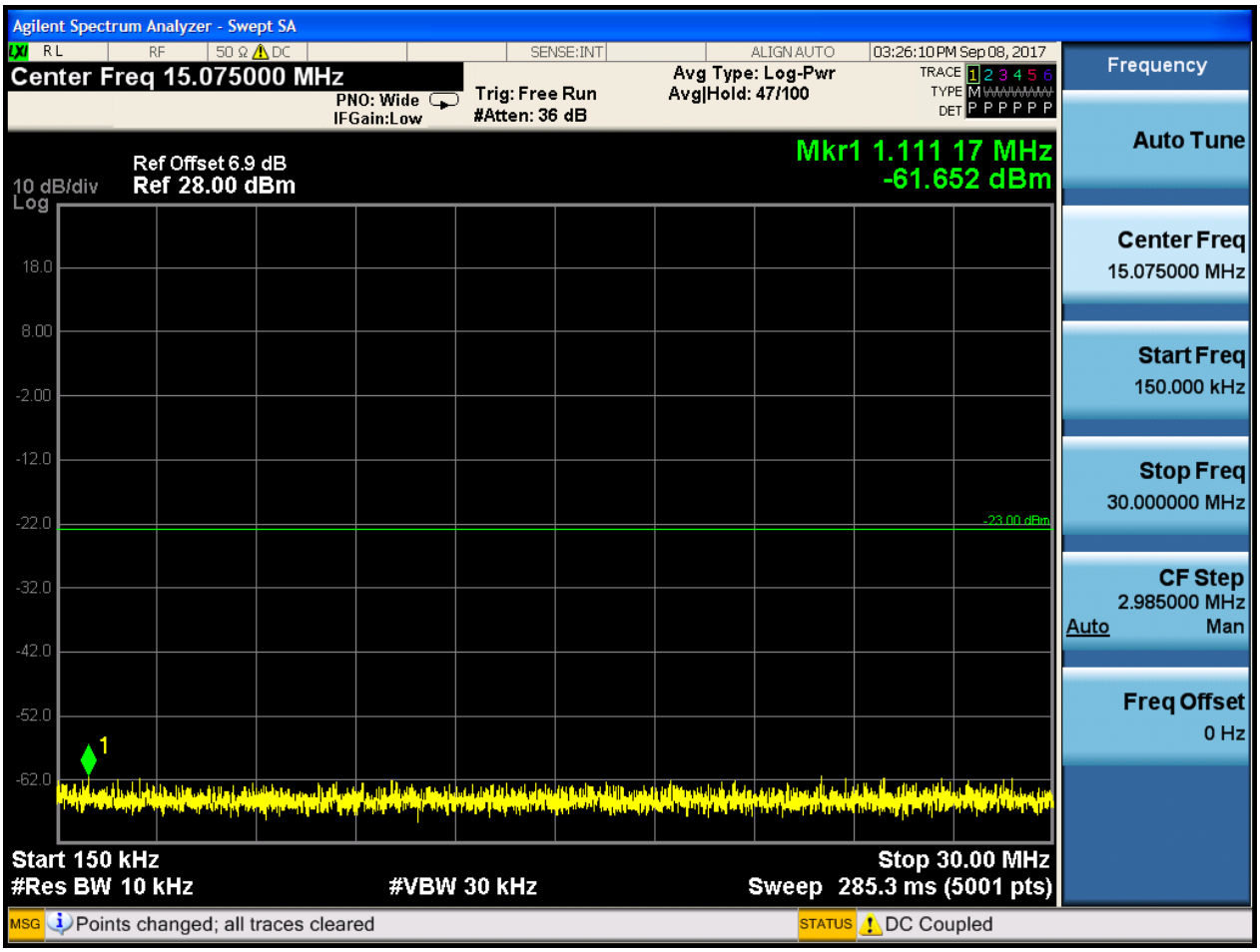

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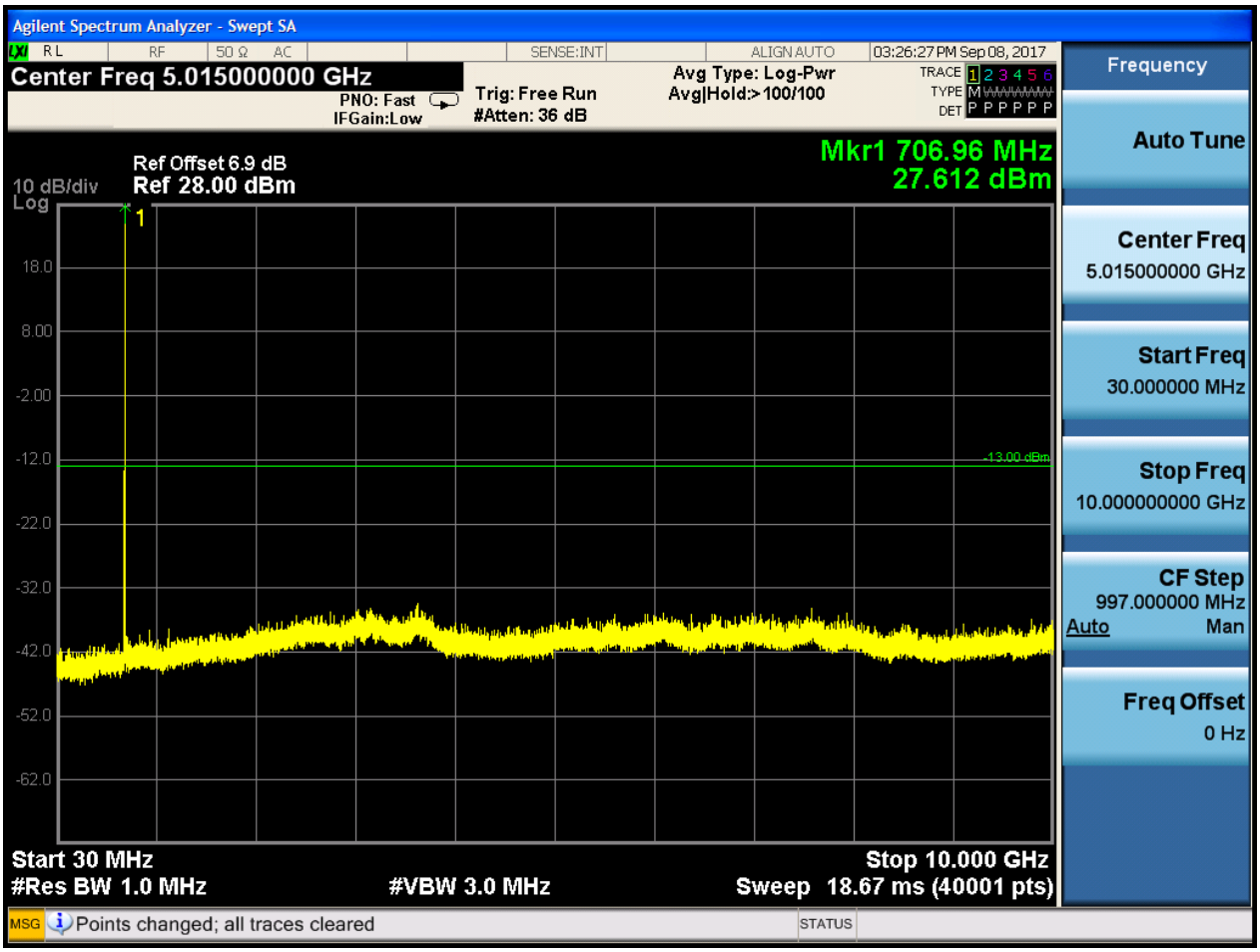

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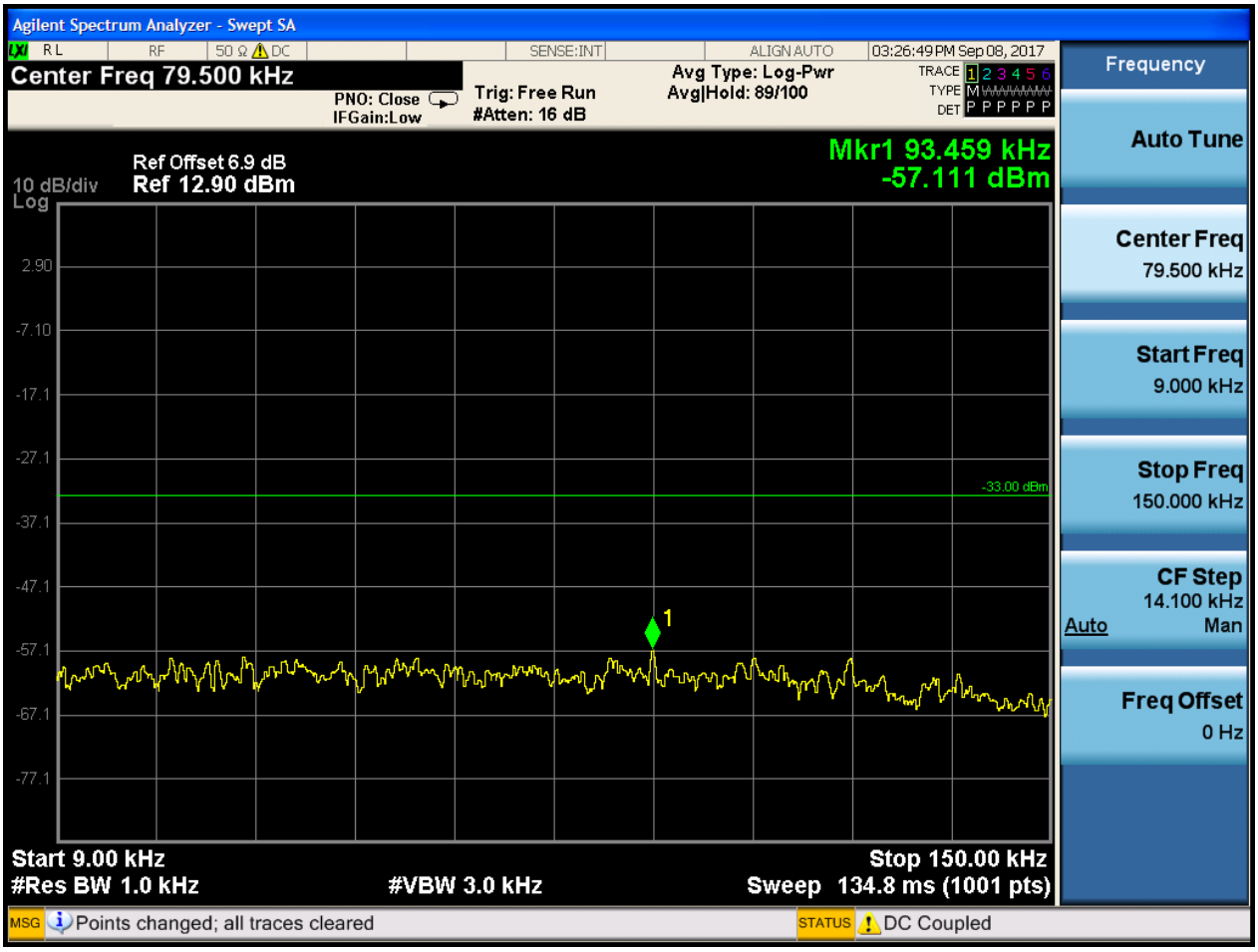
6.1.1.2.1.3 Test Channel = HCH

6.1.1.2.1.3.1 Test RB = RB1#0



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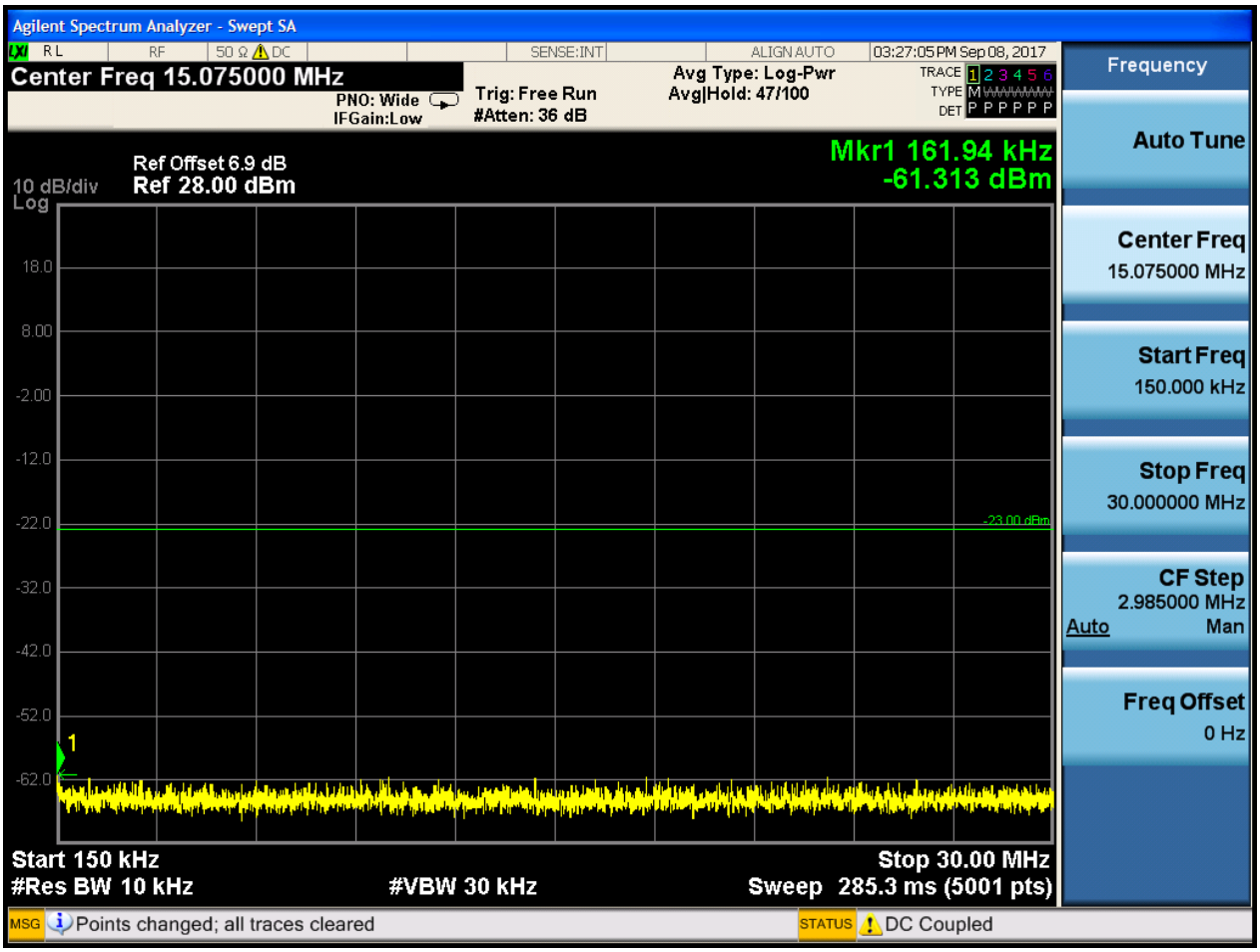

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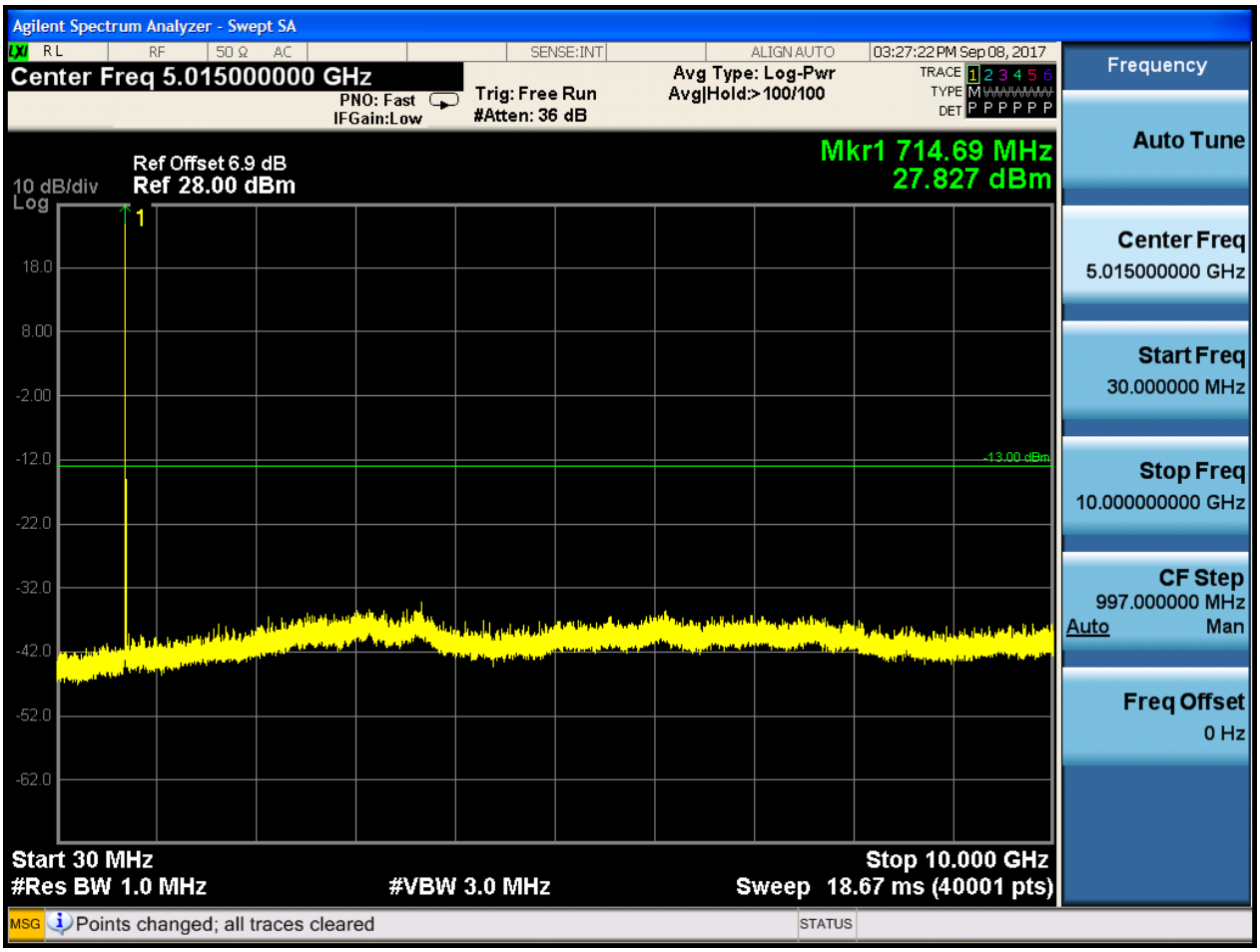

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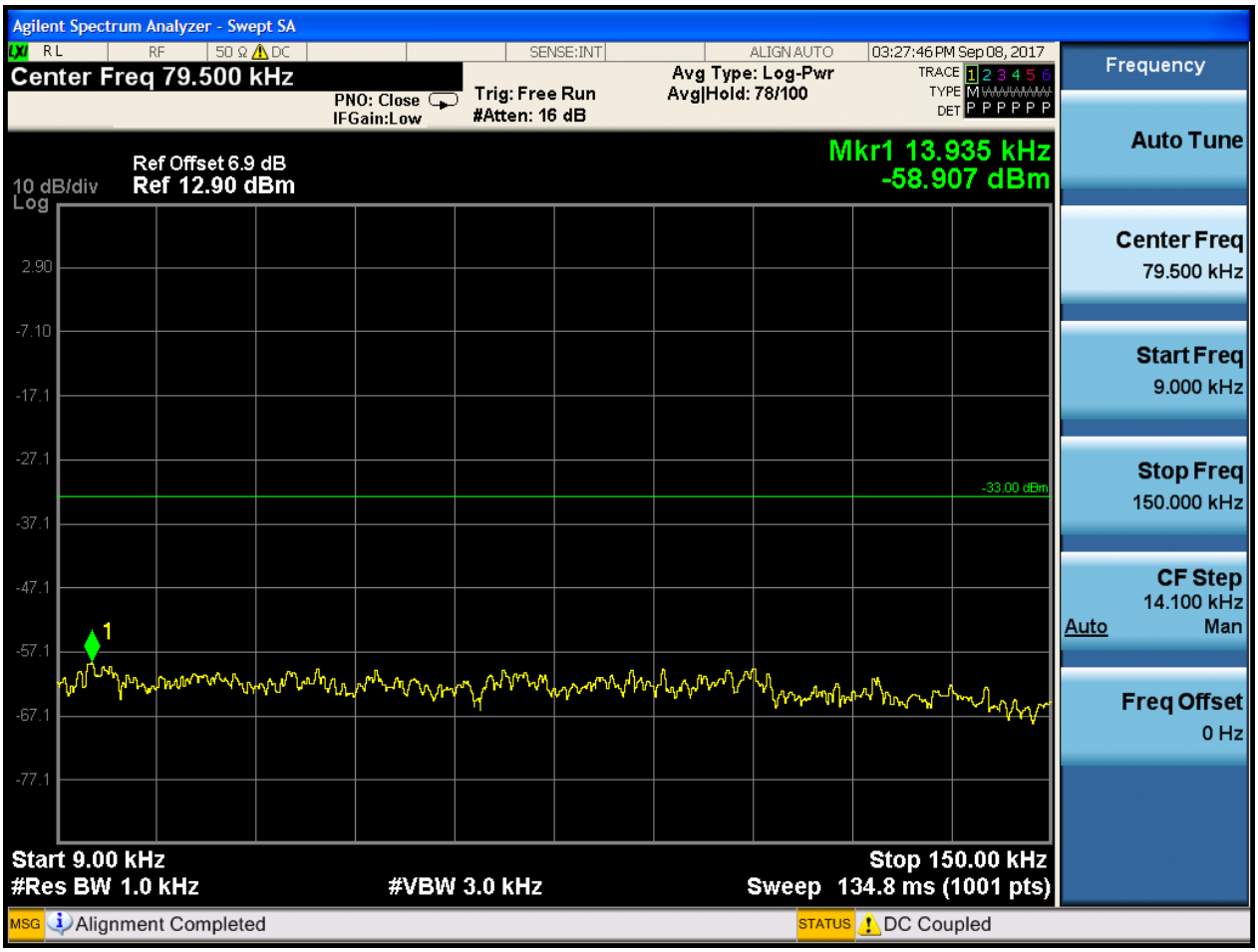
6.1.1.2.2 Test Bandwidth = 3

6.1.1.2.2.1 Test Channel = LCH

6.1.1.2.2.1.1 Test RB = RB1#0



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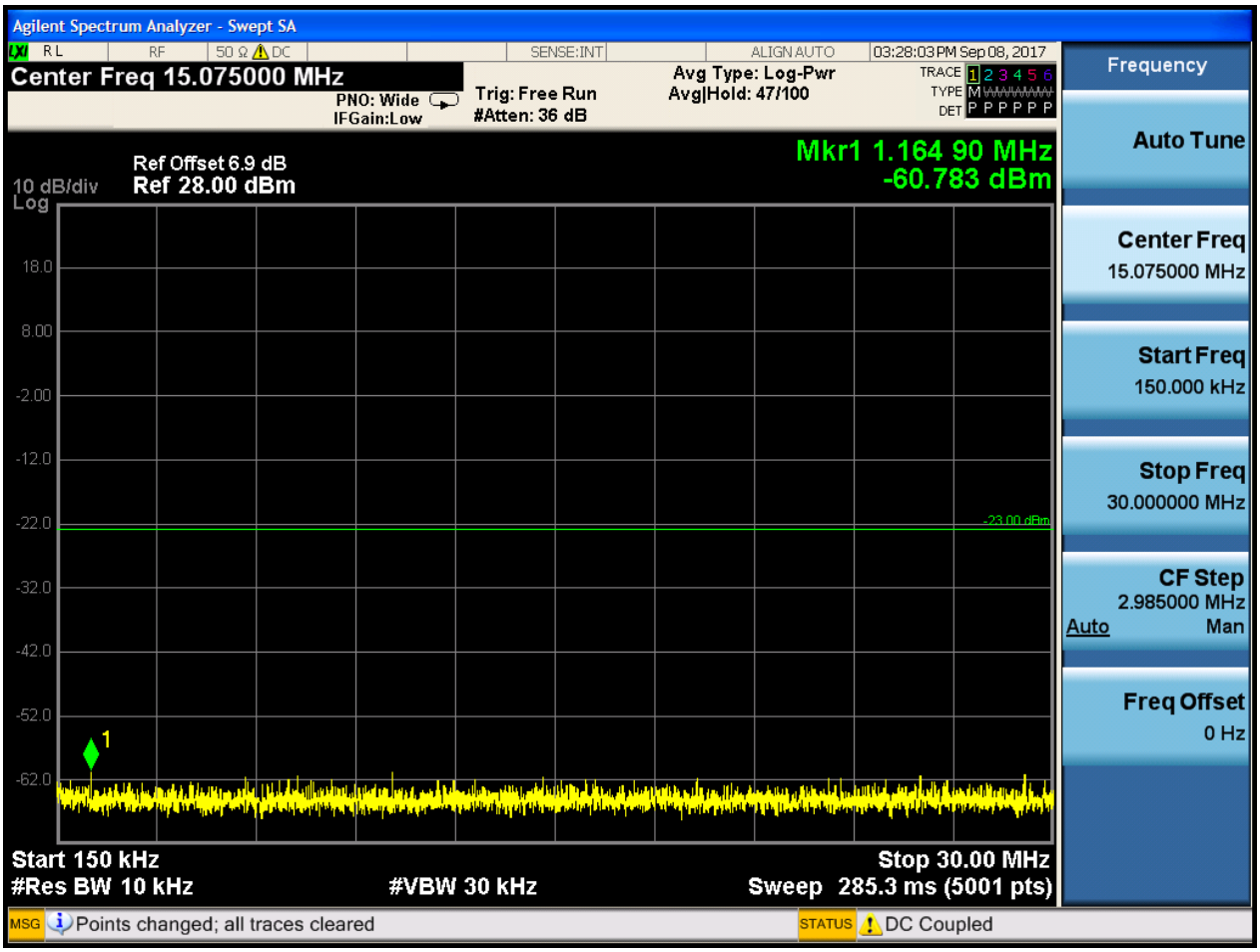

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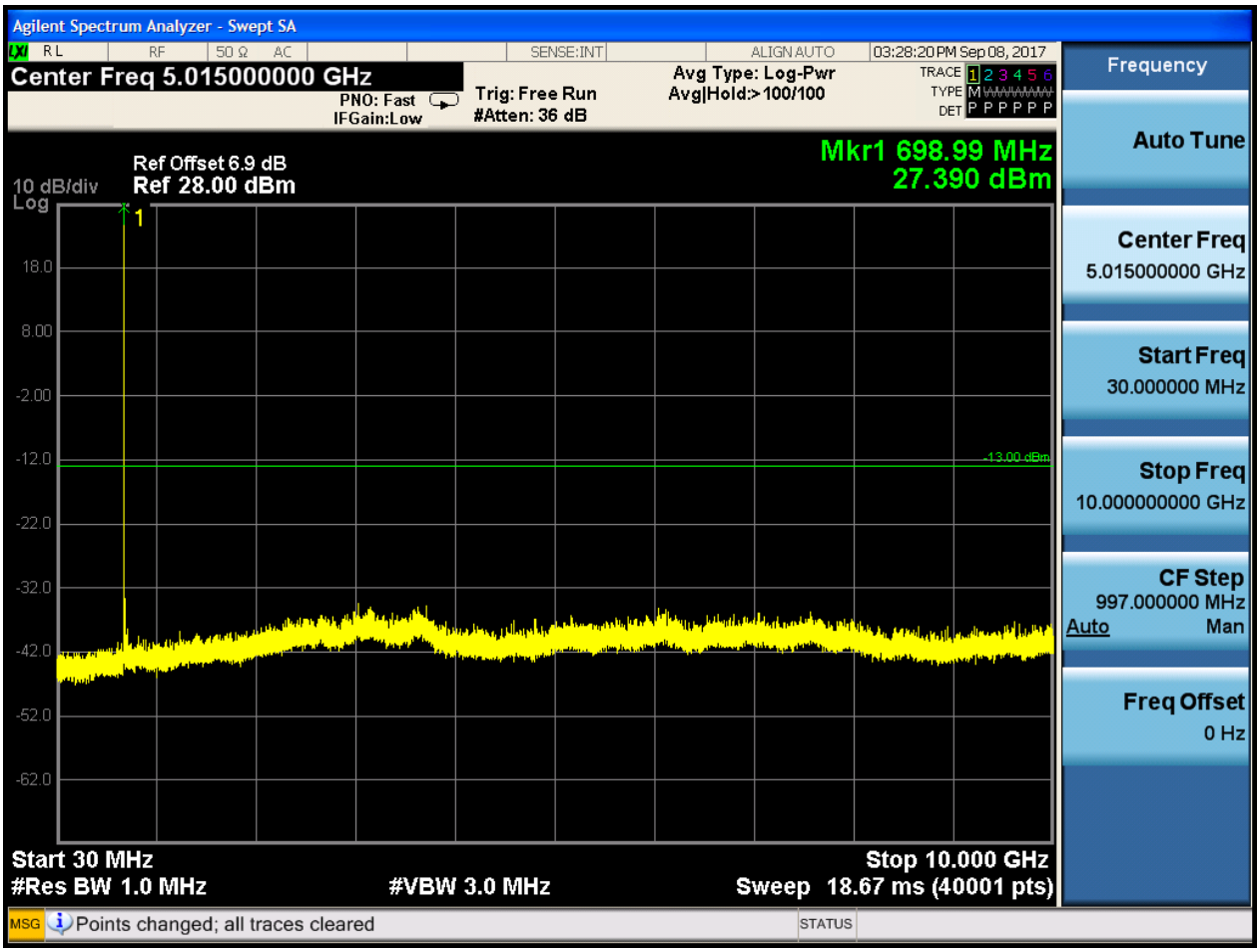

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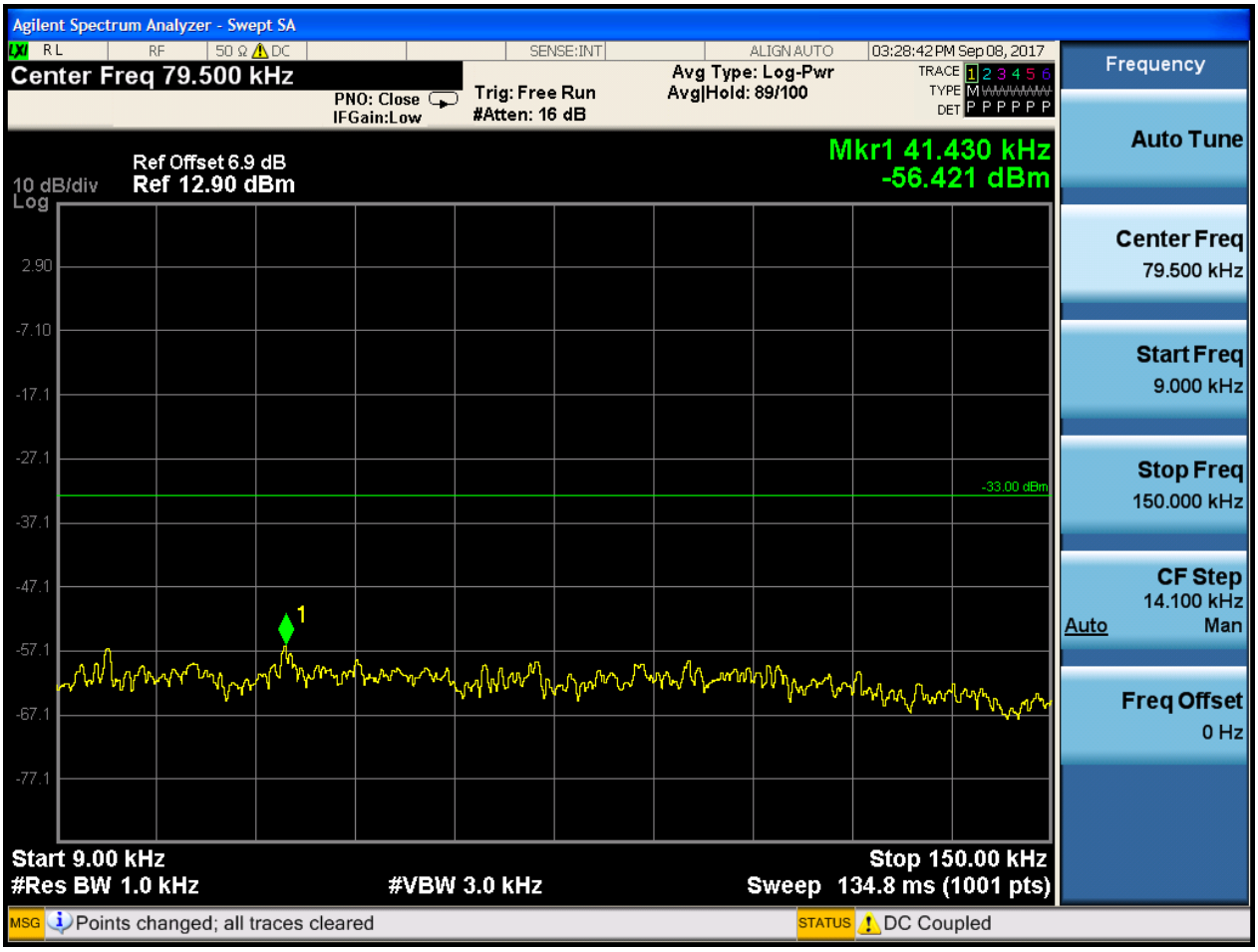
6.1.1.2.2.2 Test Channel = MCH

6.1.1.2.2.2.1 Test RB = RB1#0



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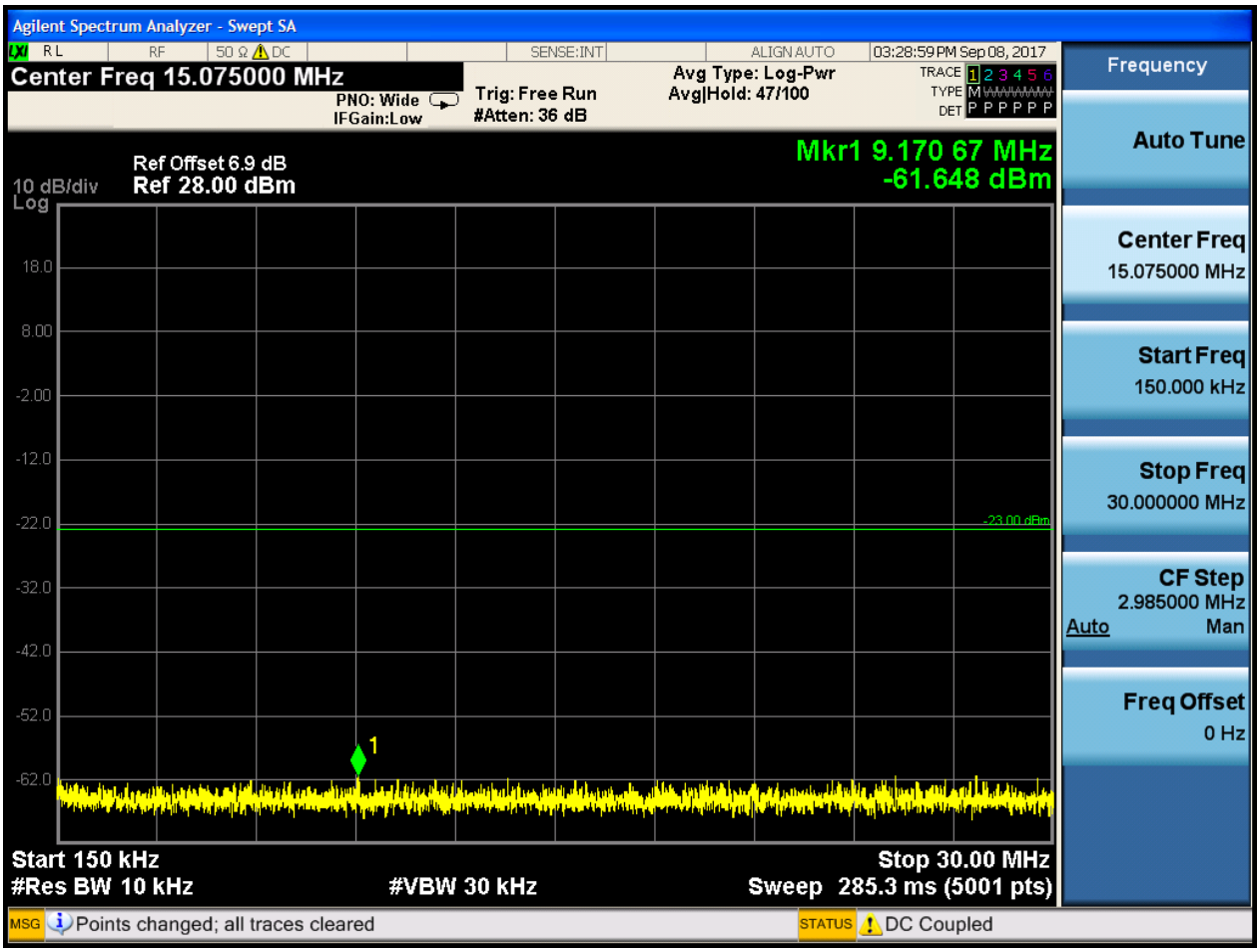

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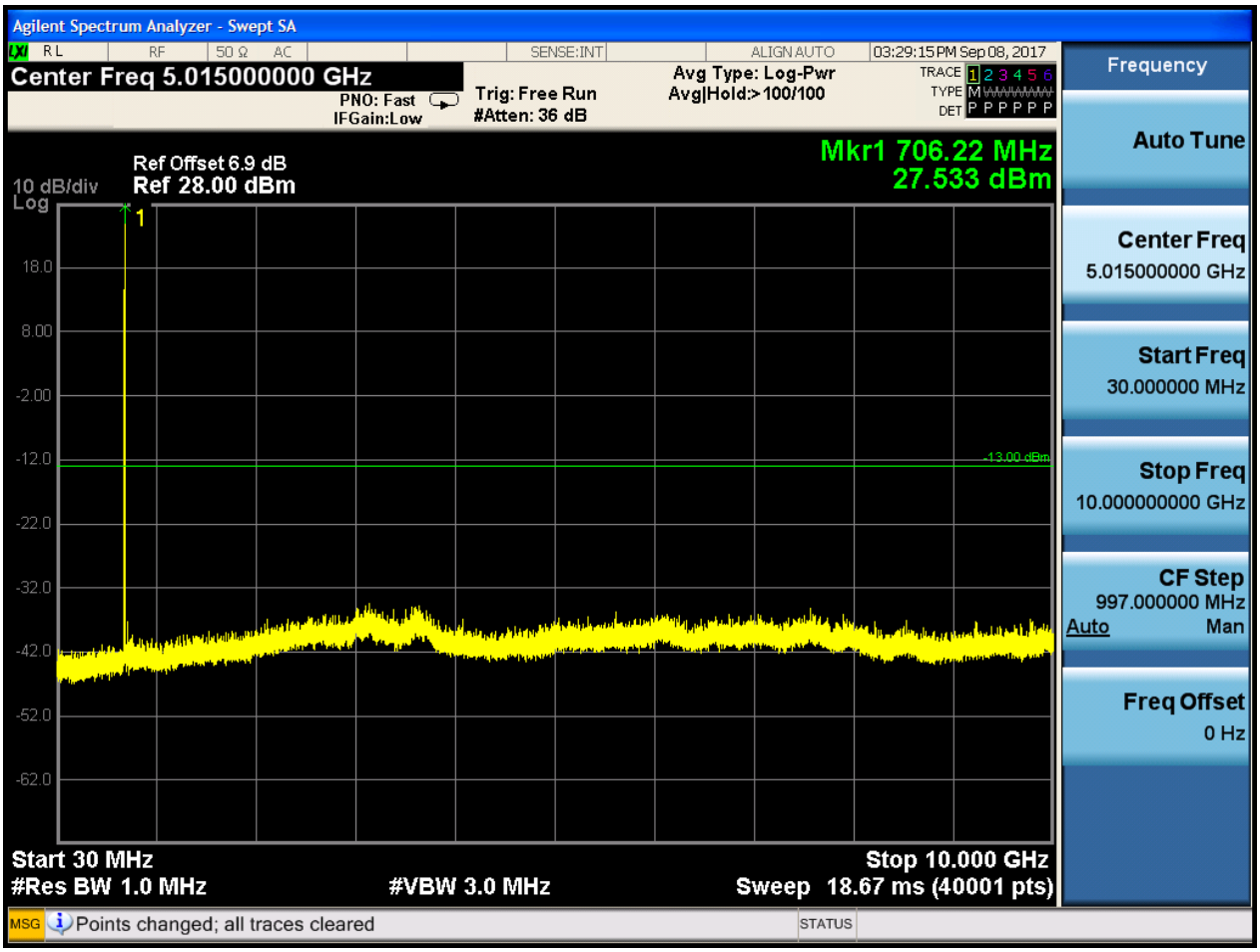

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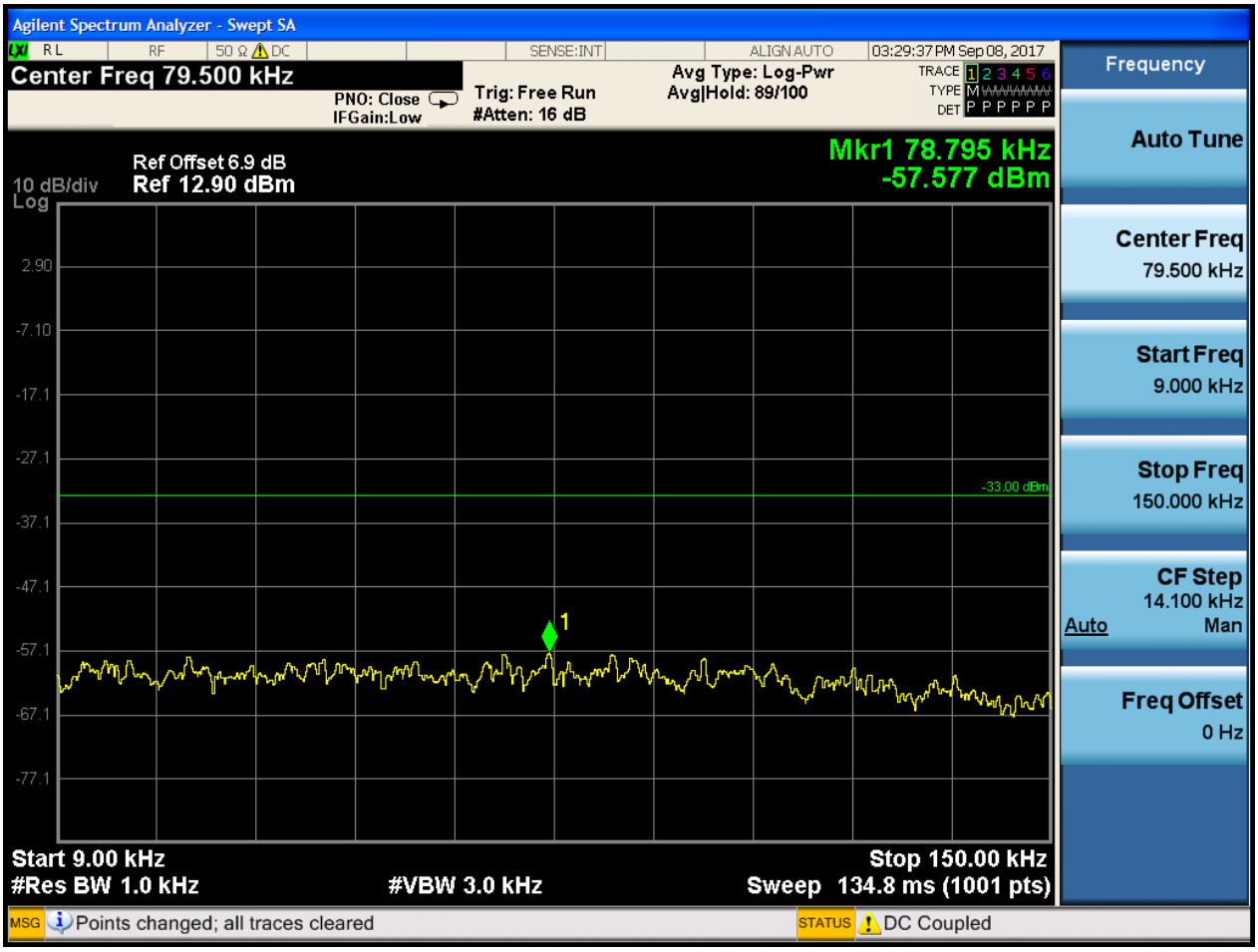
6.1.1.2.2.3 Test Channel = HCH

6.1.1.2.2.3.1 Test RB = RB1#0



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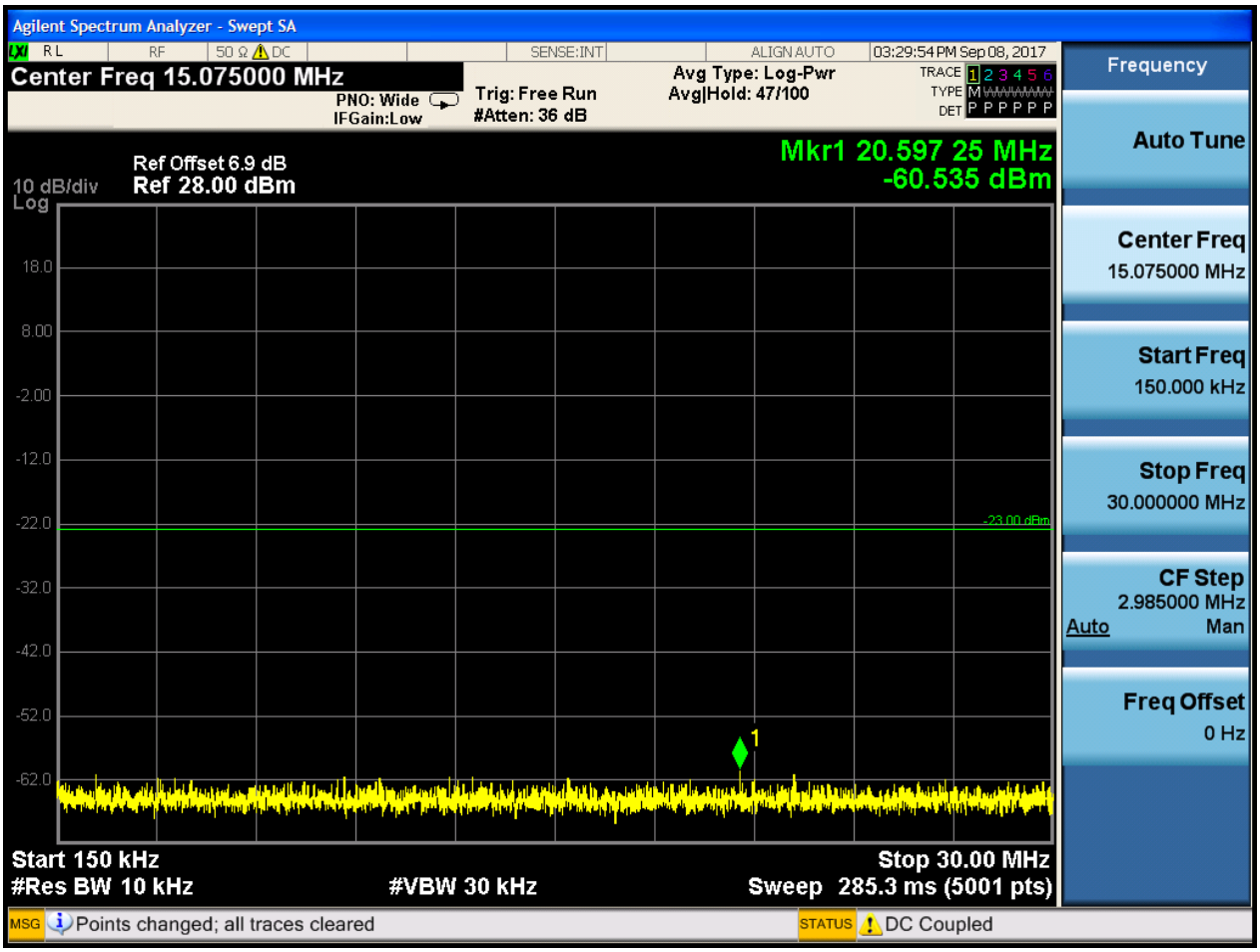

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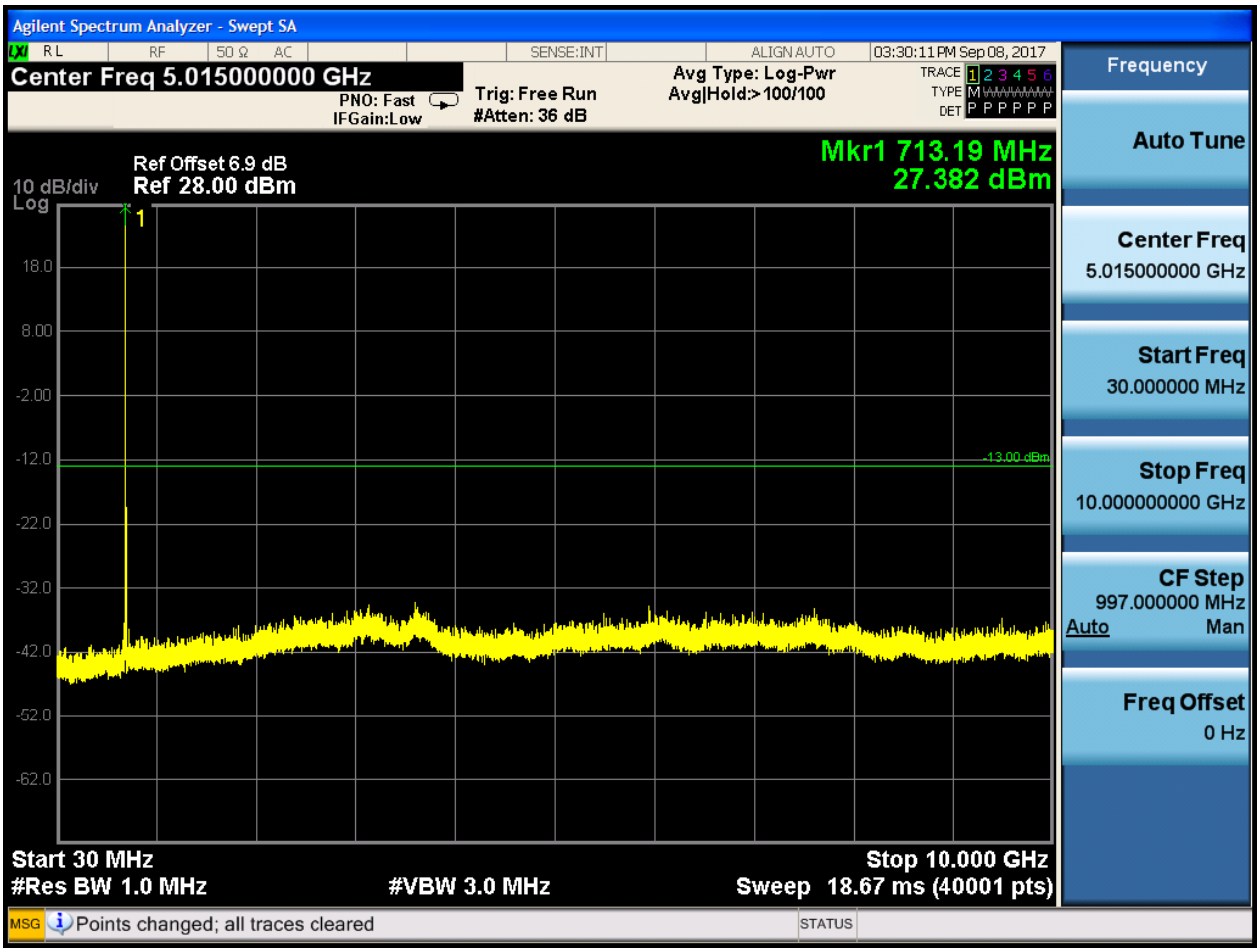

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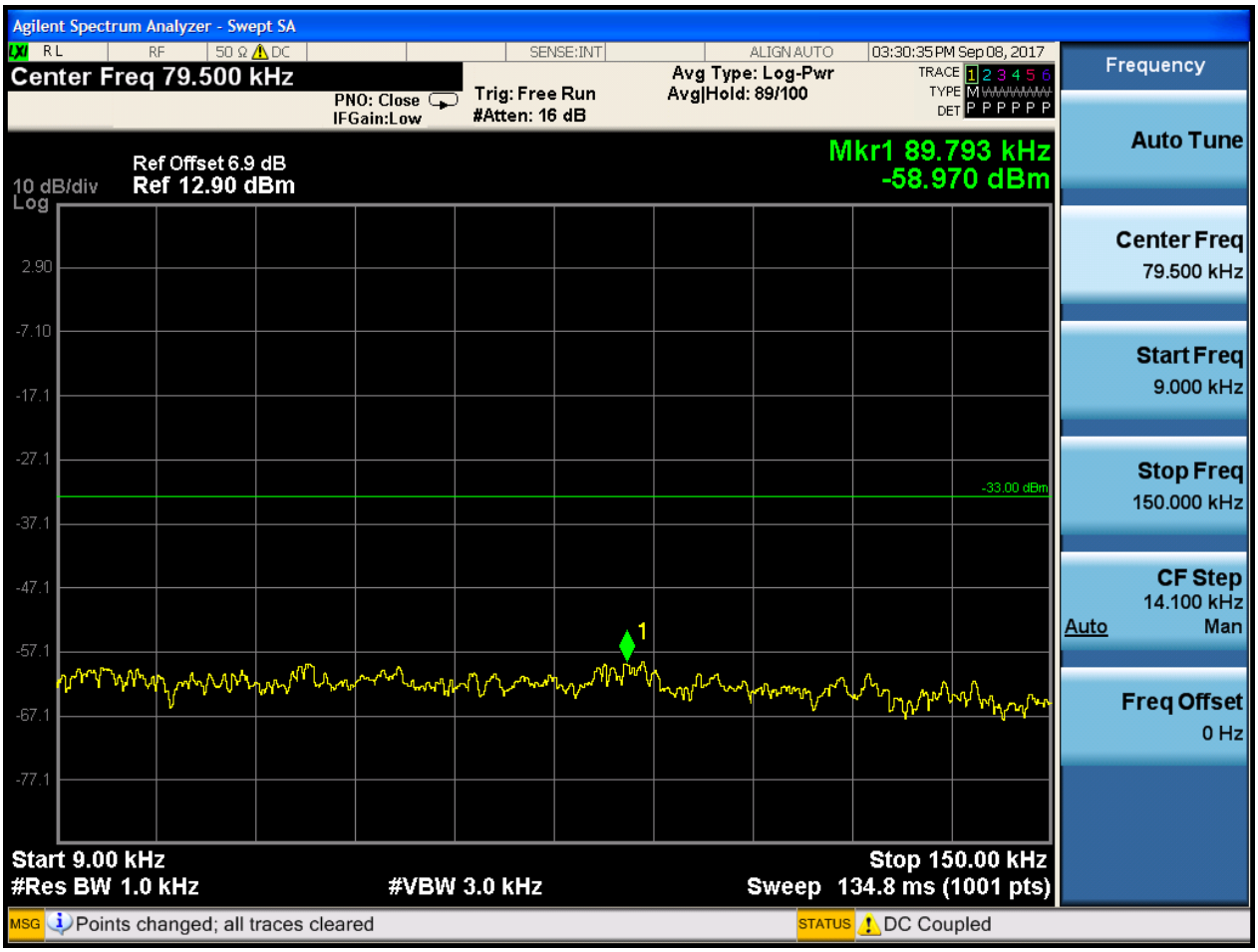
6.1.1.2.3 Test Bandwidth = 5

6.1.1.2.3.1 Test Channel = LCH

6.1.1.2.3.1.1 Test RB = RB1#0



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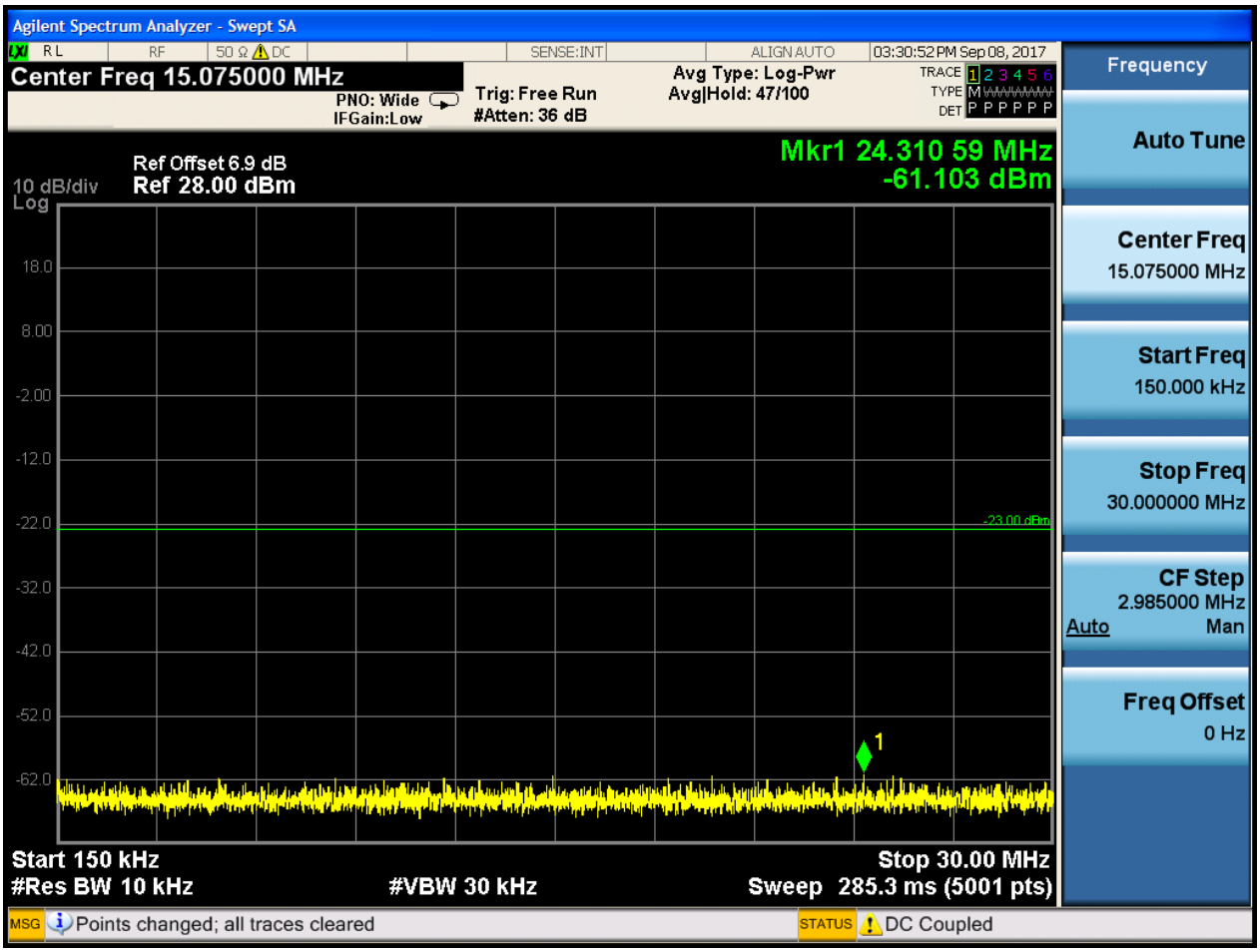

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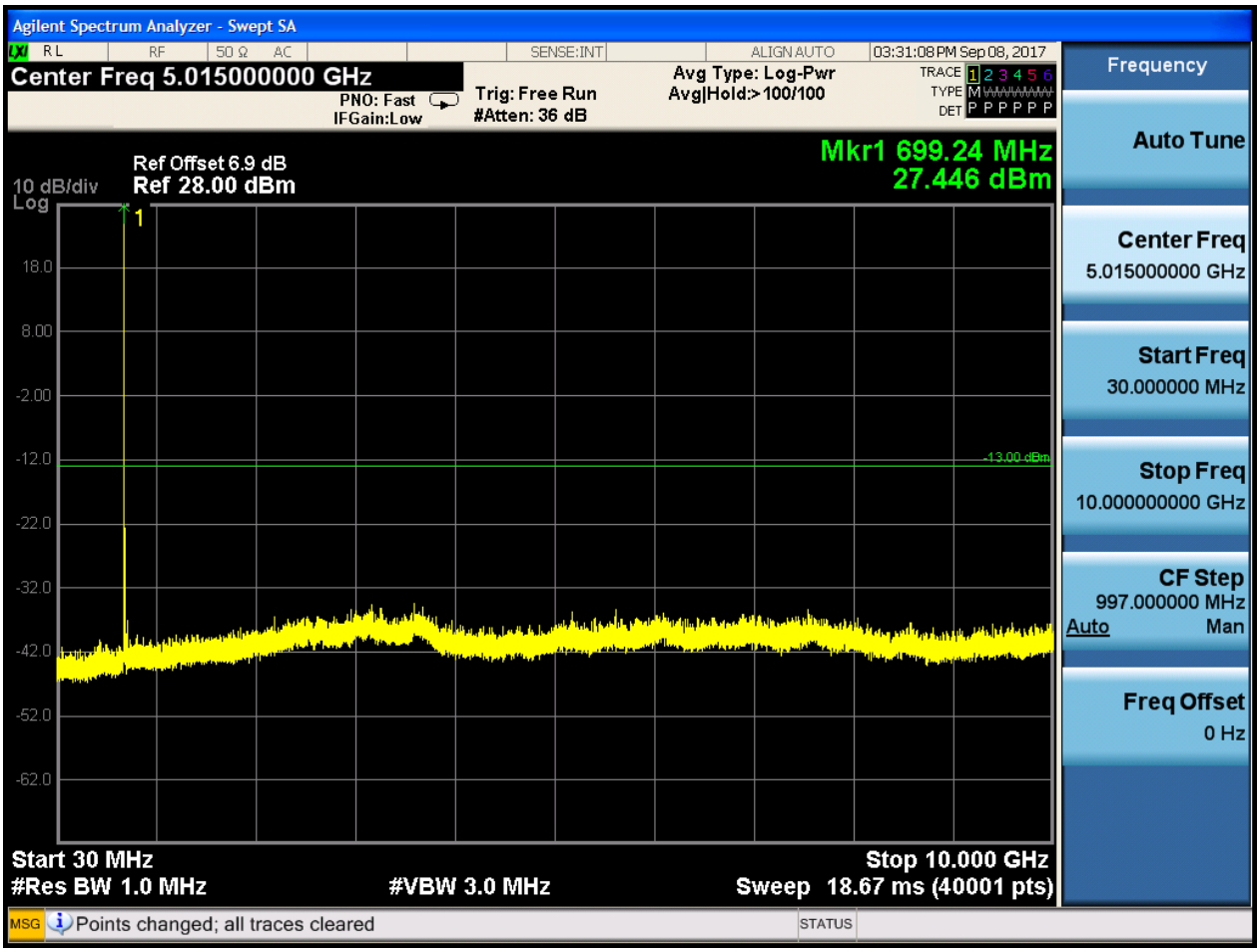

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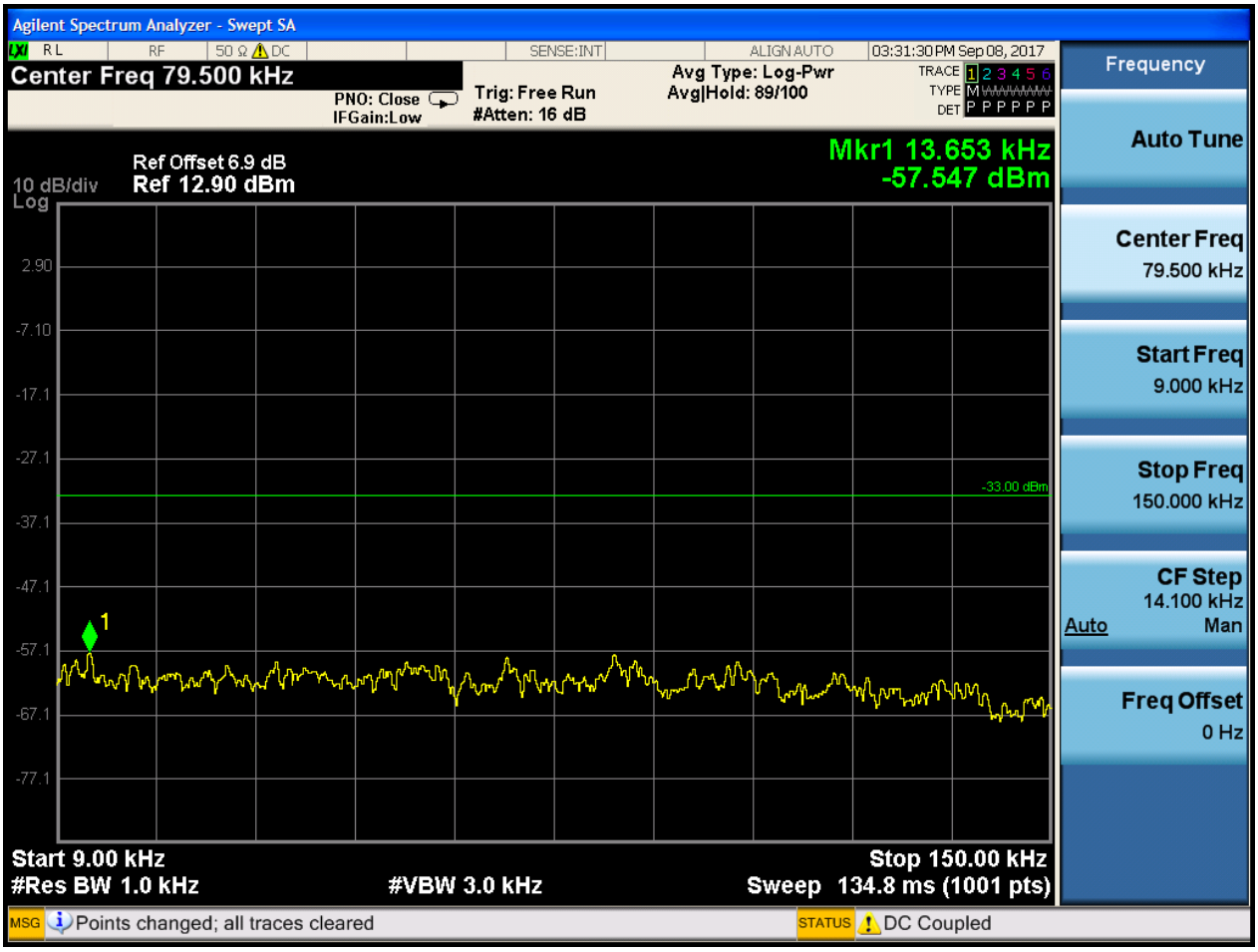
6.1.1.2.3.2 Test Channel = MCH

6.1.1.2.3.2.1 Test RB = RB1#0



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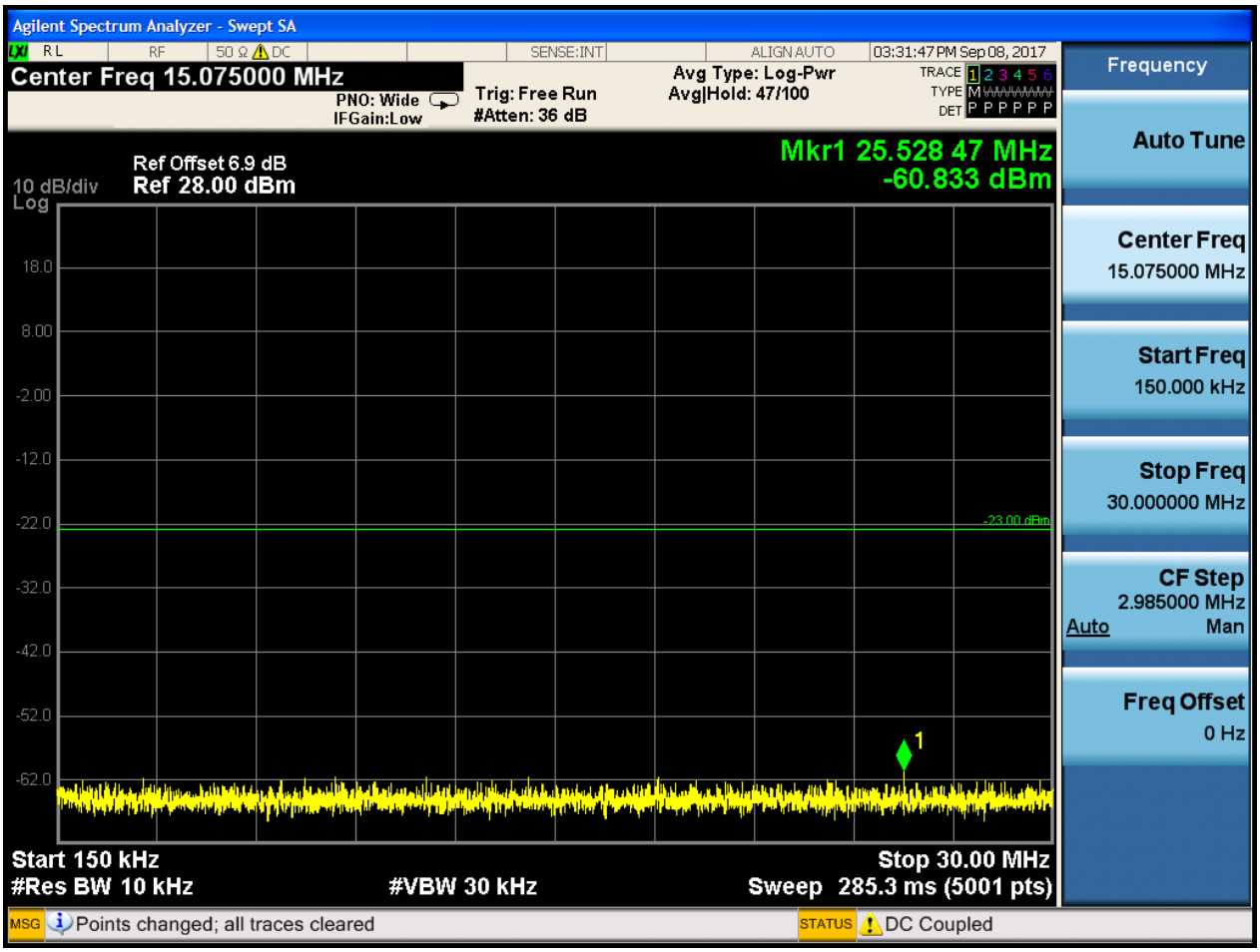

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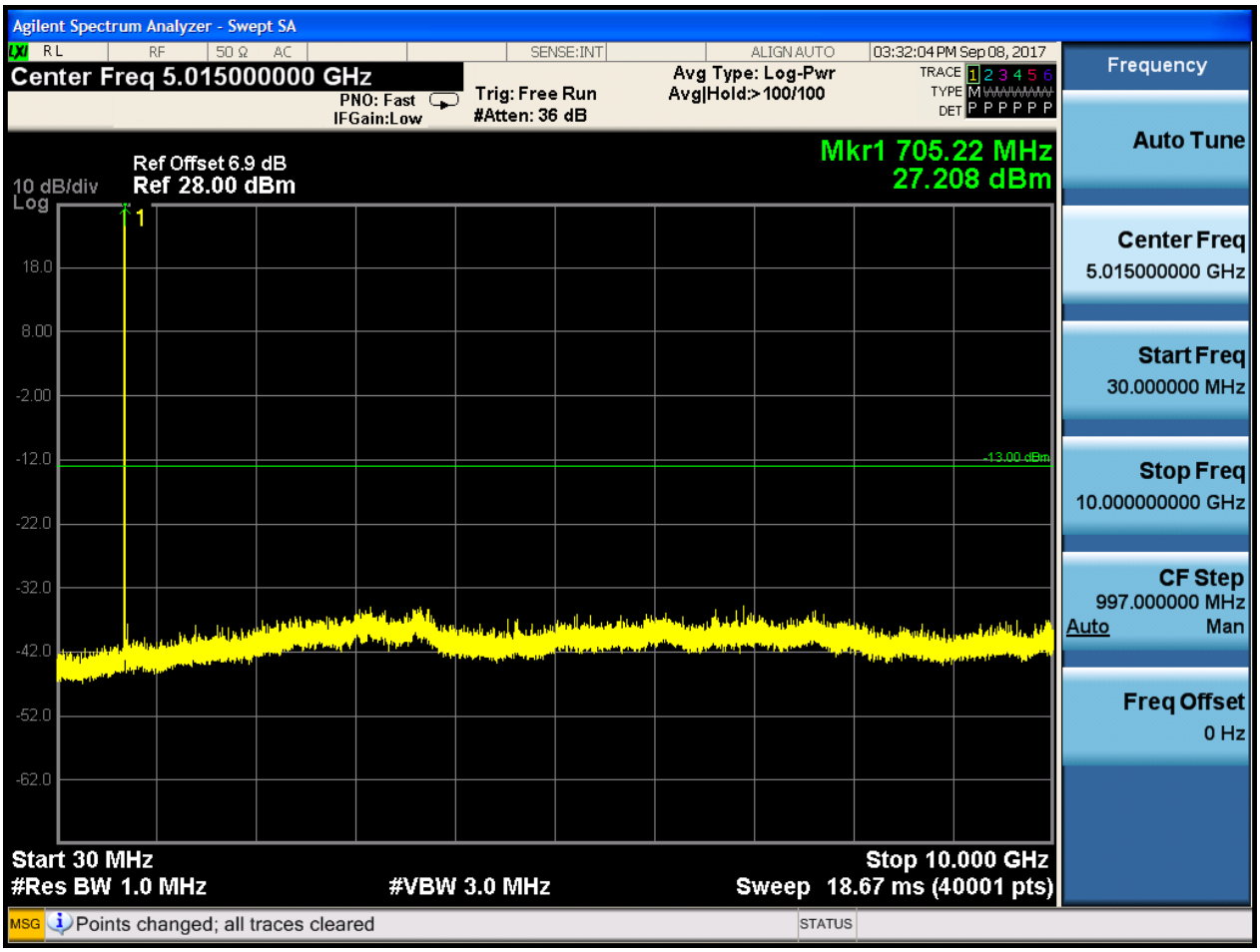

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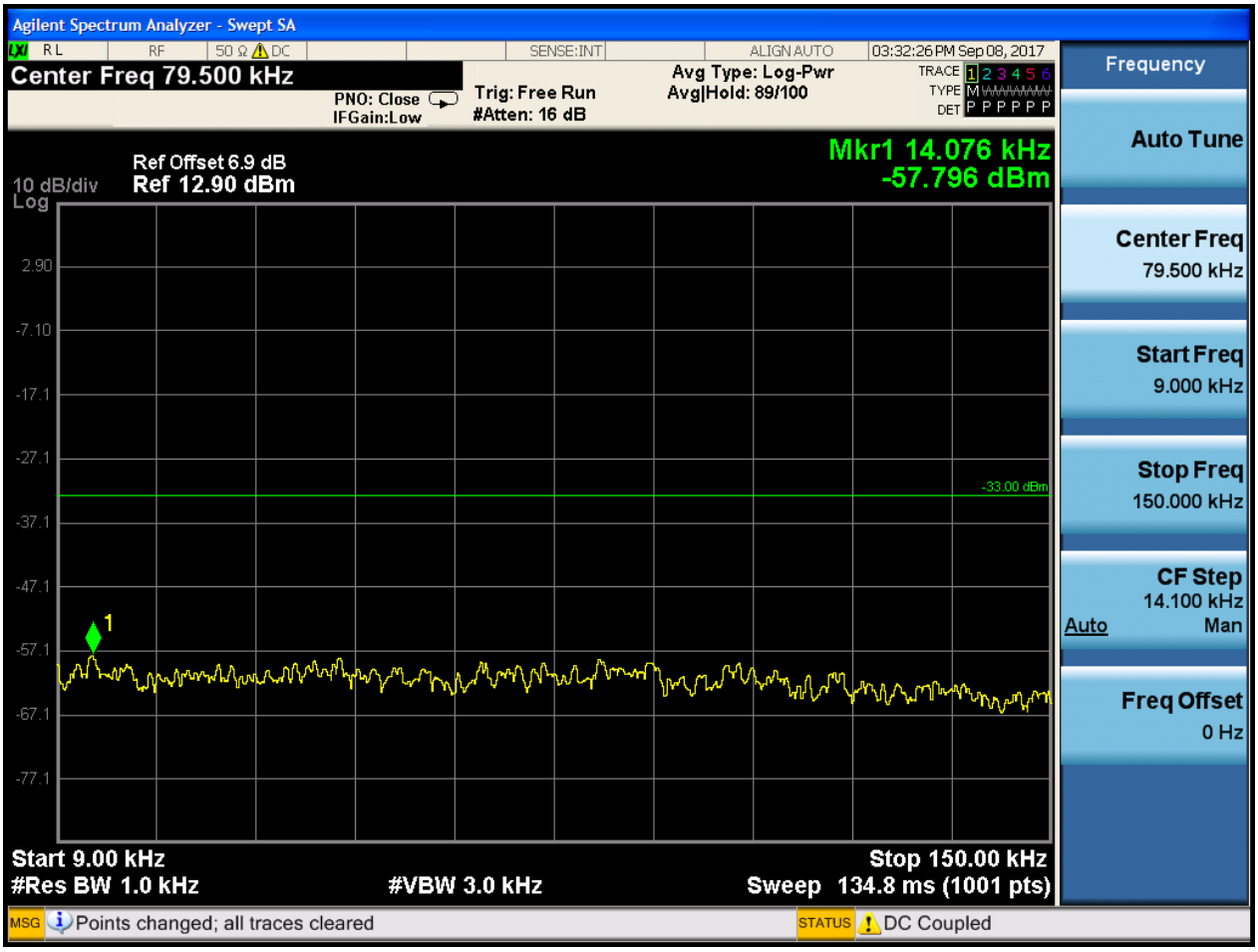
6.1.1.2.3.3 Test Channel = HCH

6.1.1.2.3.3.1 Test RB = RB1#0



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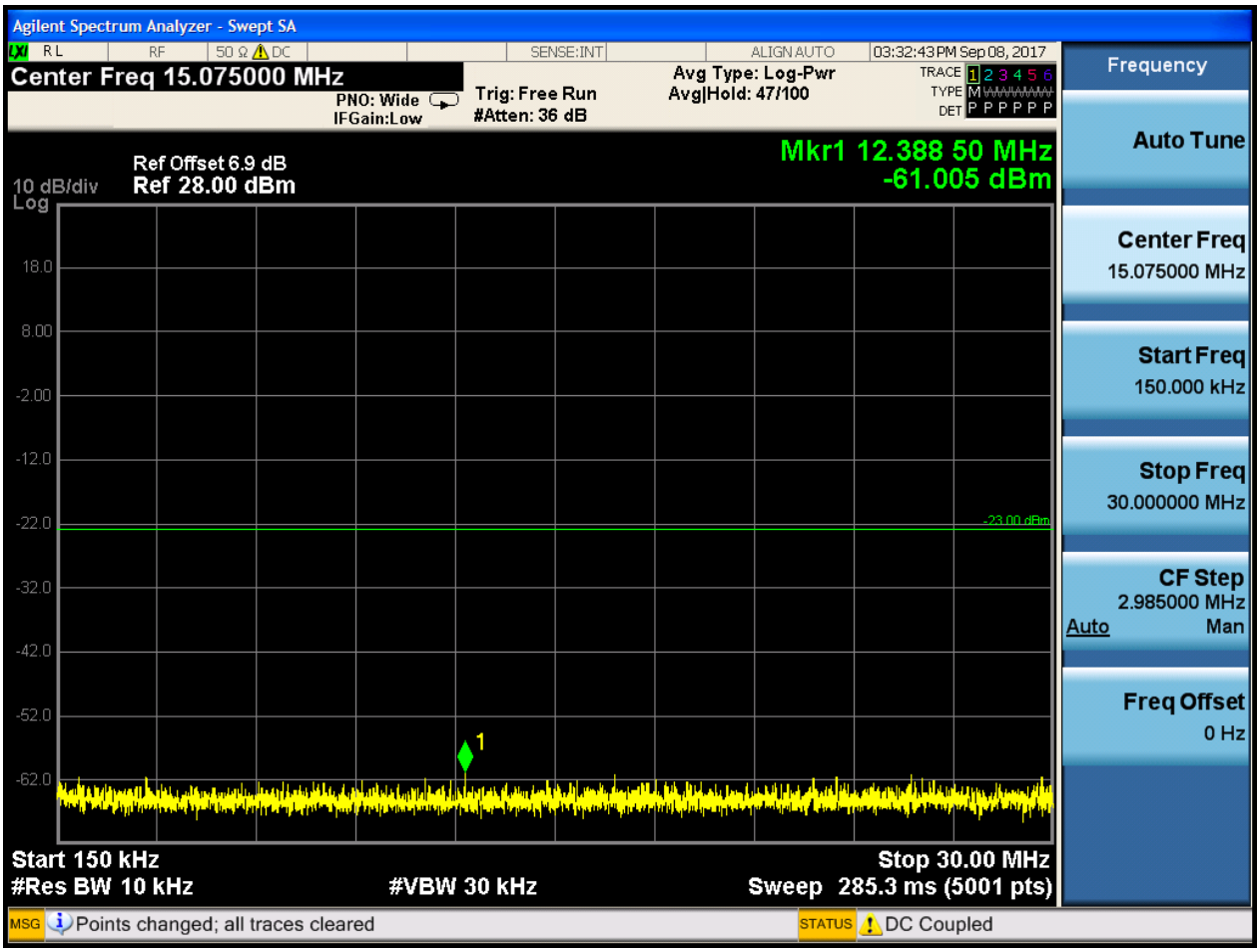

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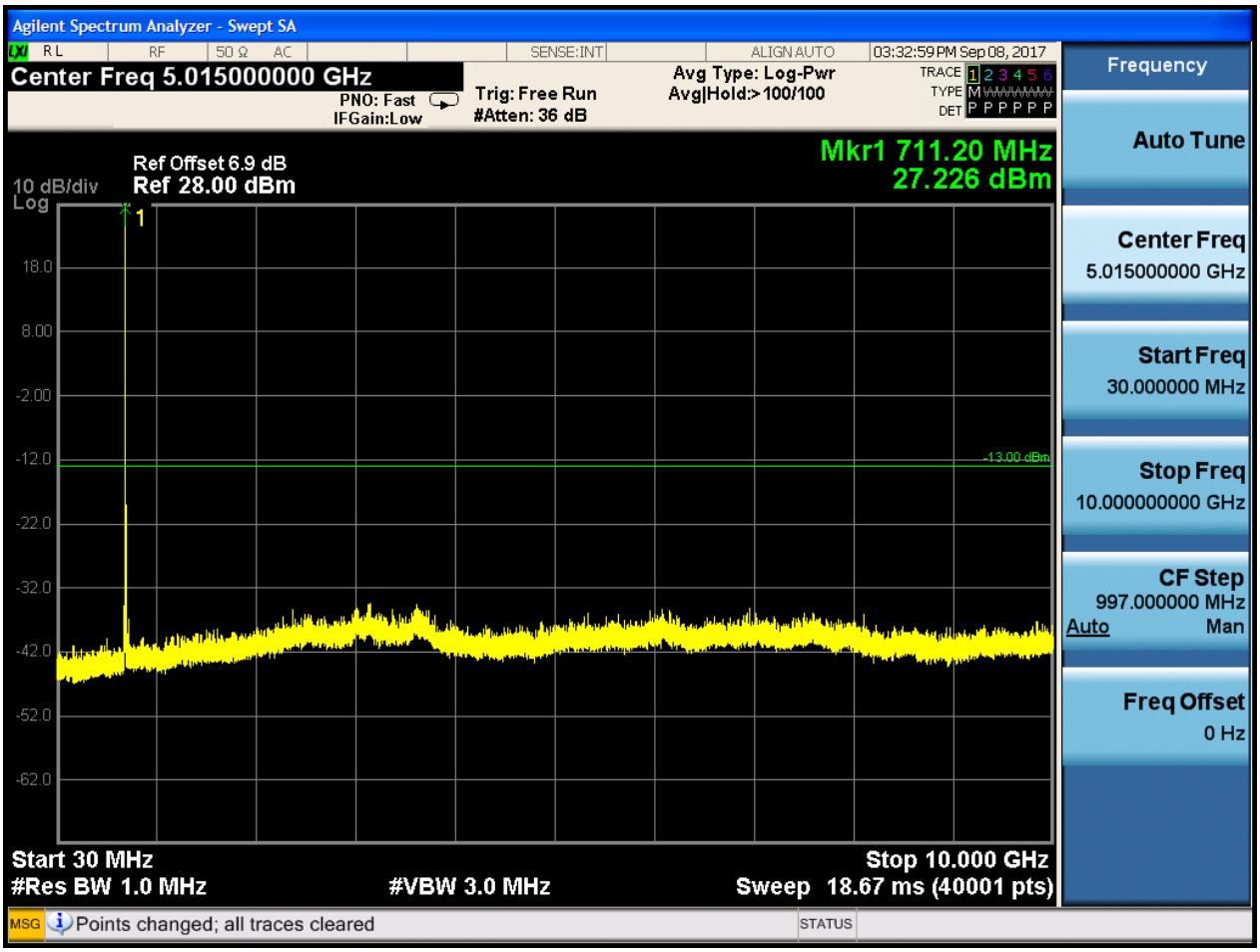

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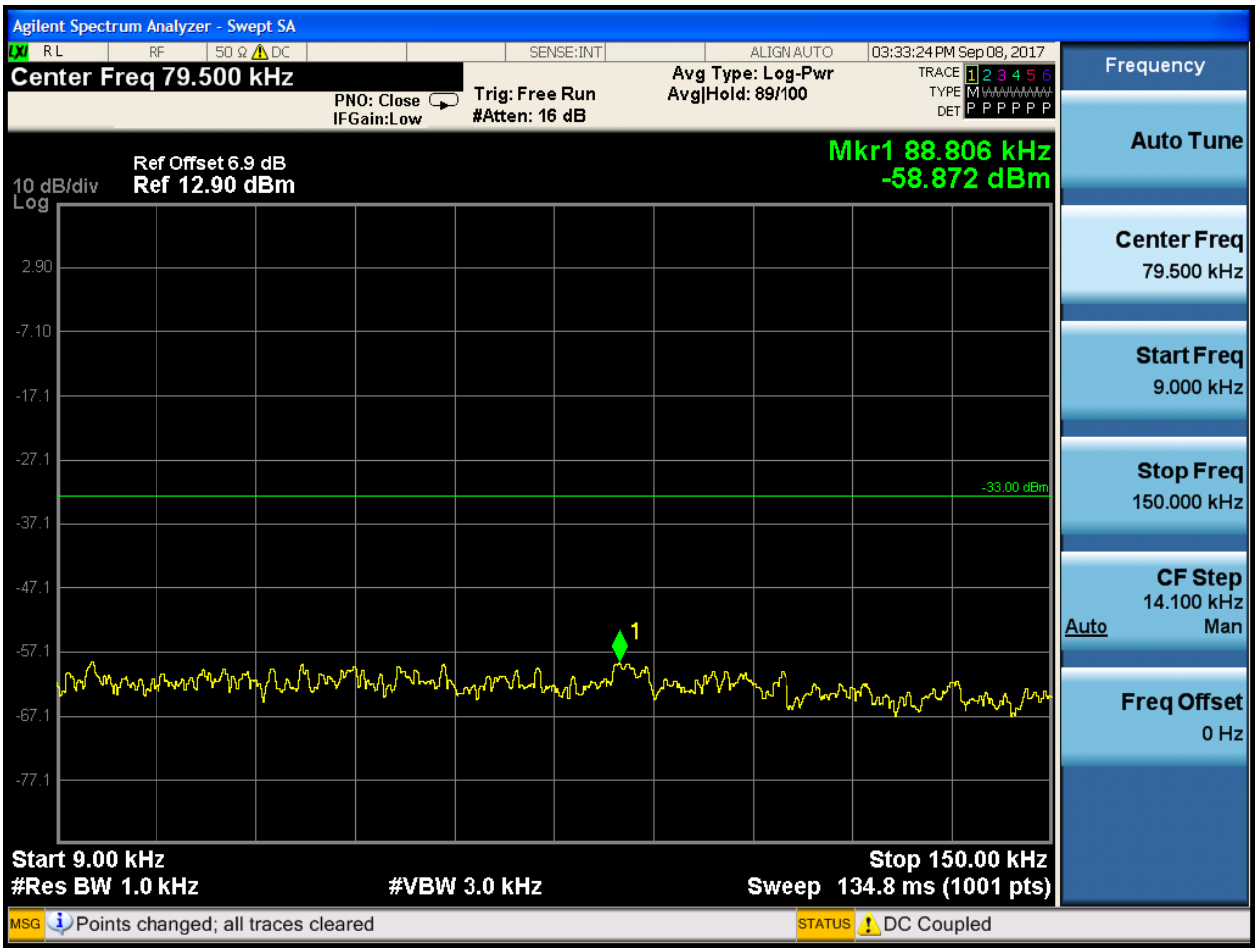
6.1.1.2.4 Test Bandwidth = 10

6.1.1.2.4.1 Test Channel = LCH

6.1.1.2.4.1.1 Test RB = RB1#0



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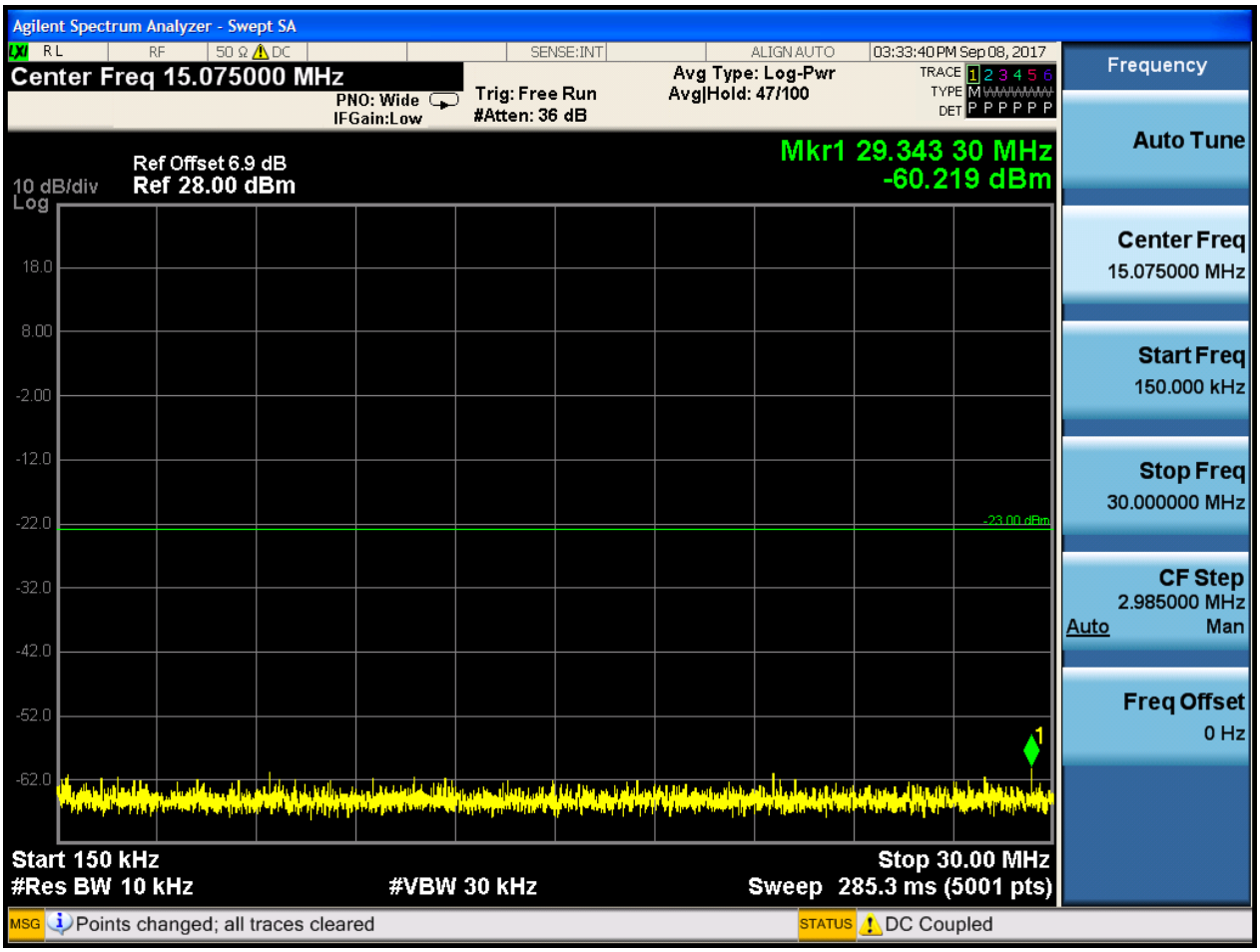

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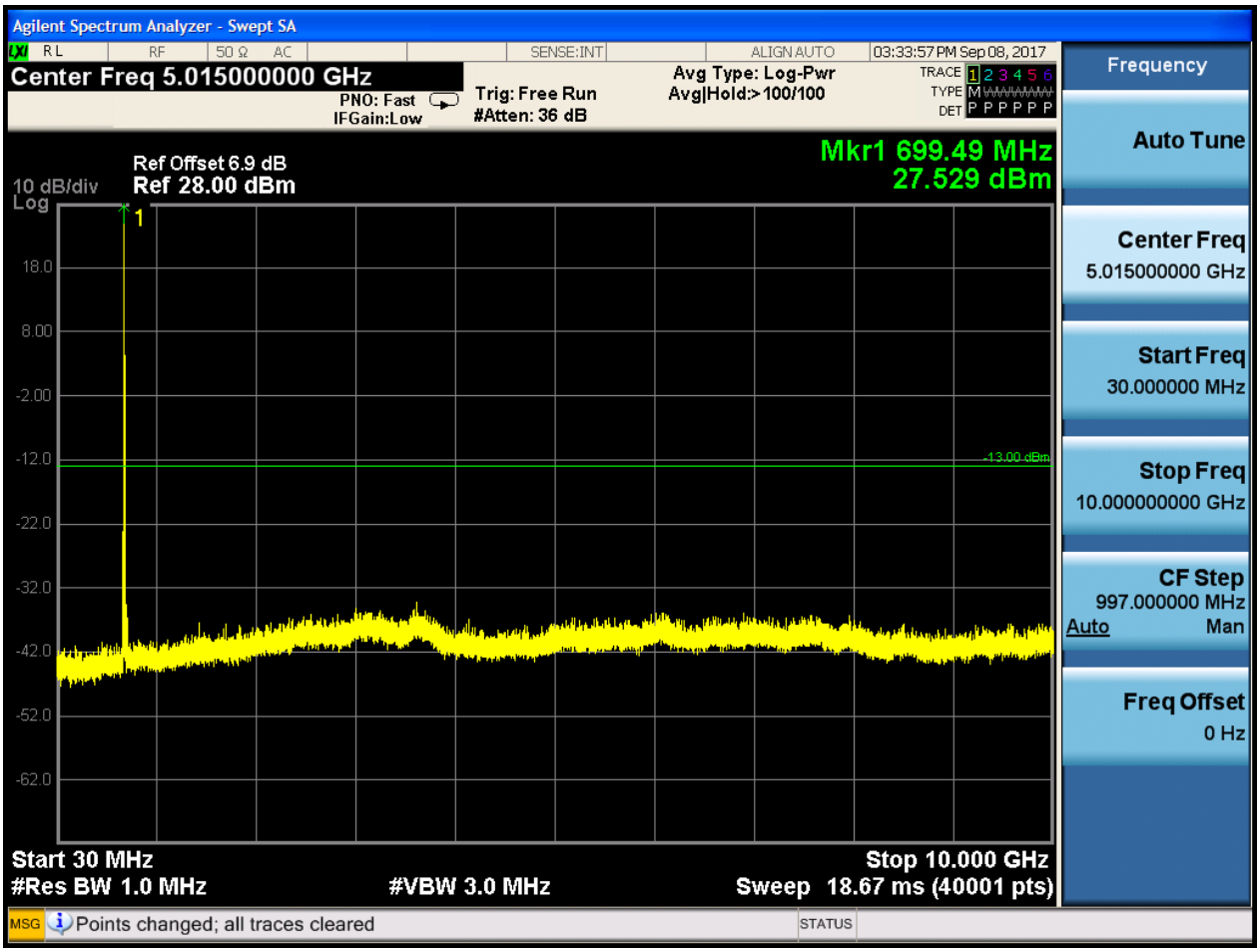

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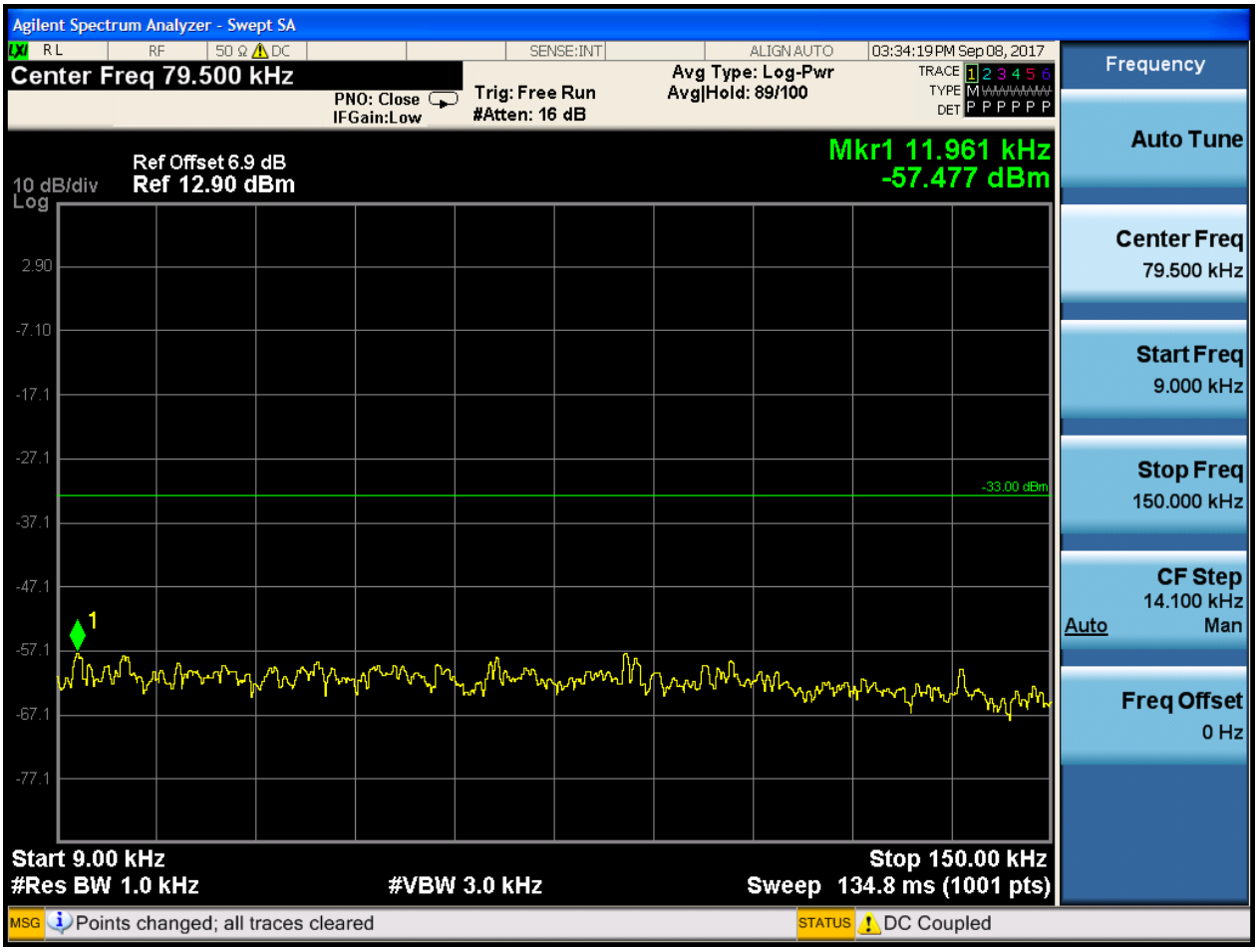
6.1.1.2.4.2 Test Channel = MCH

6.1.1.2.4.2.1 Test RB = RB1#0



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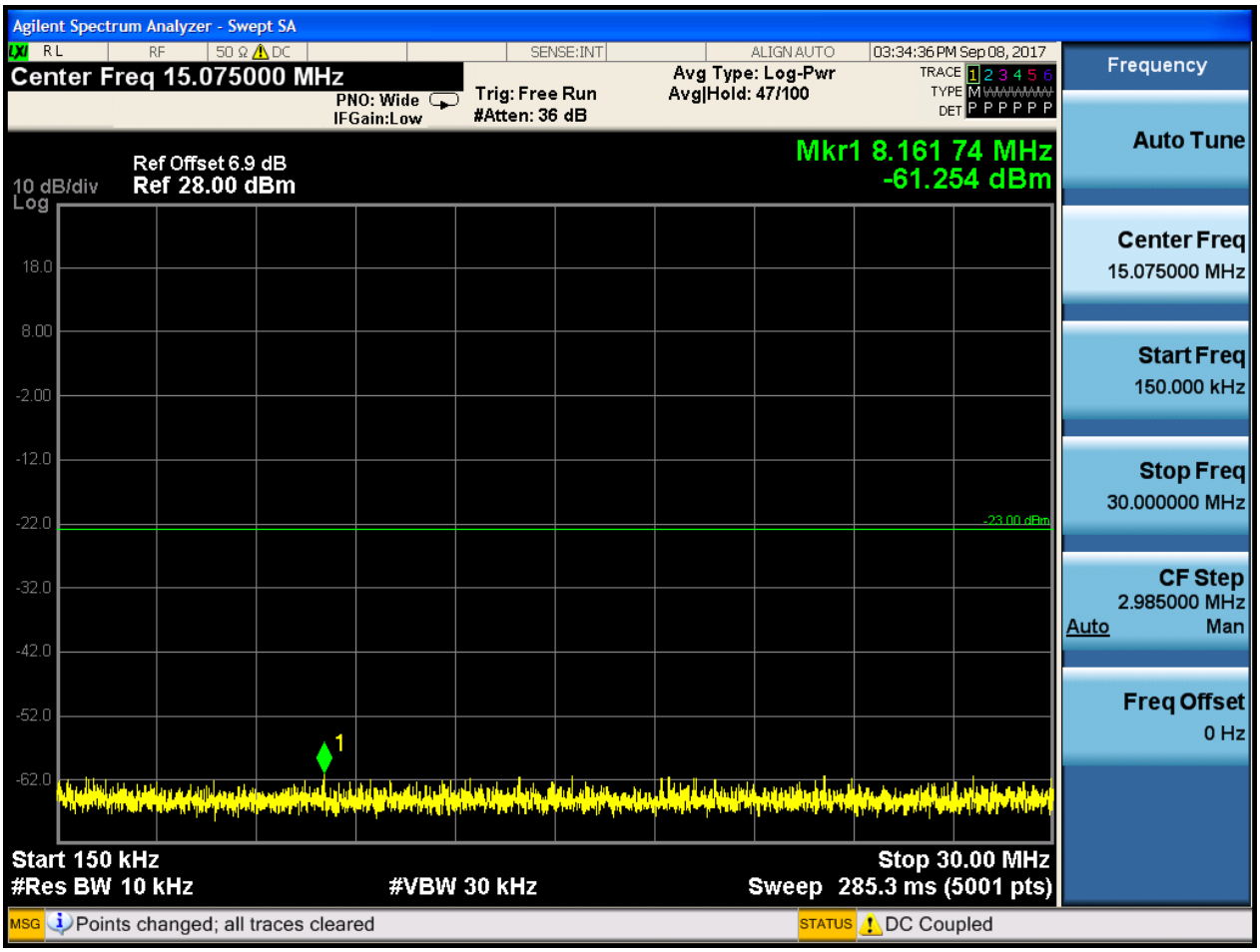

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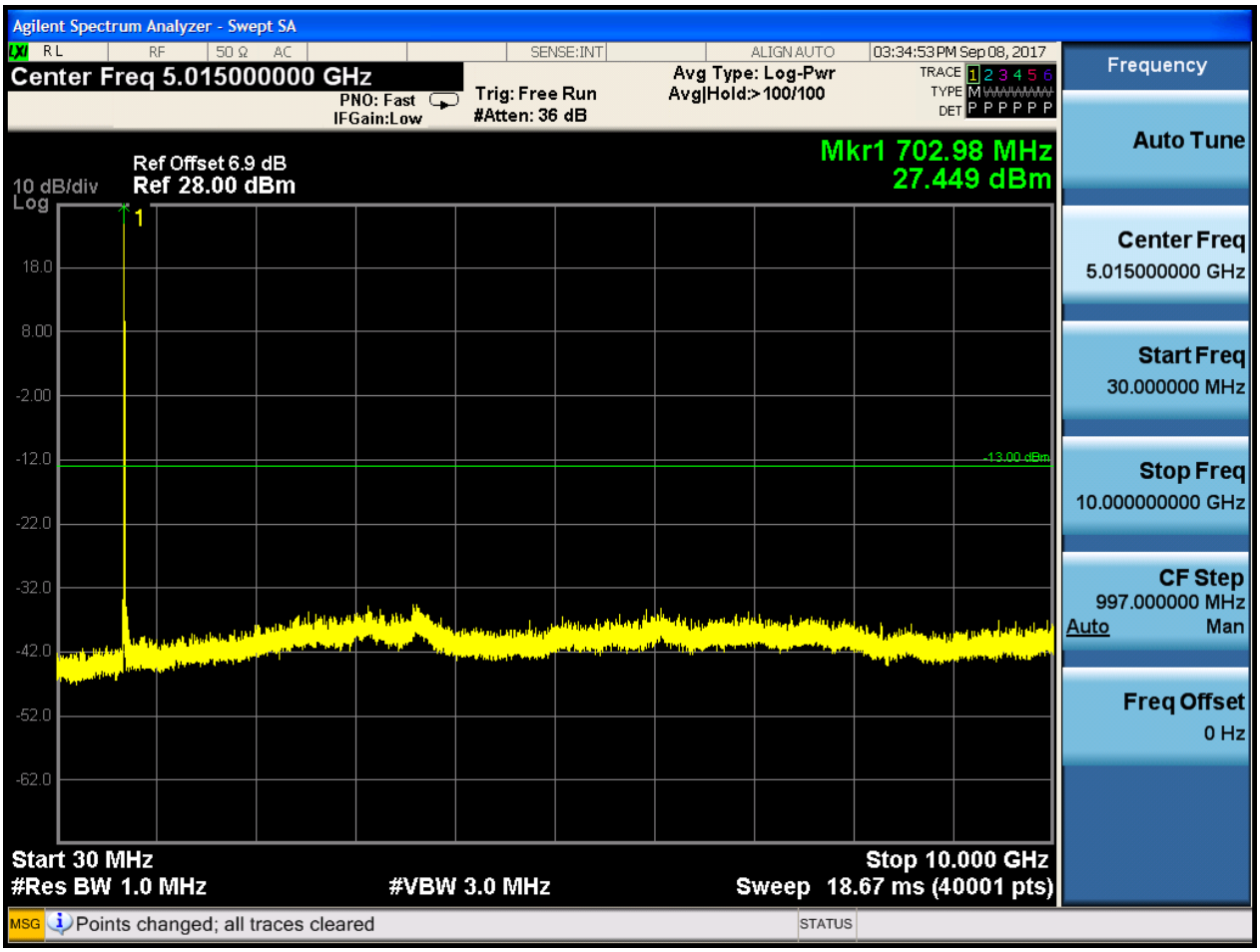

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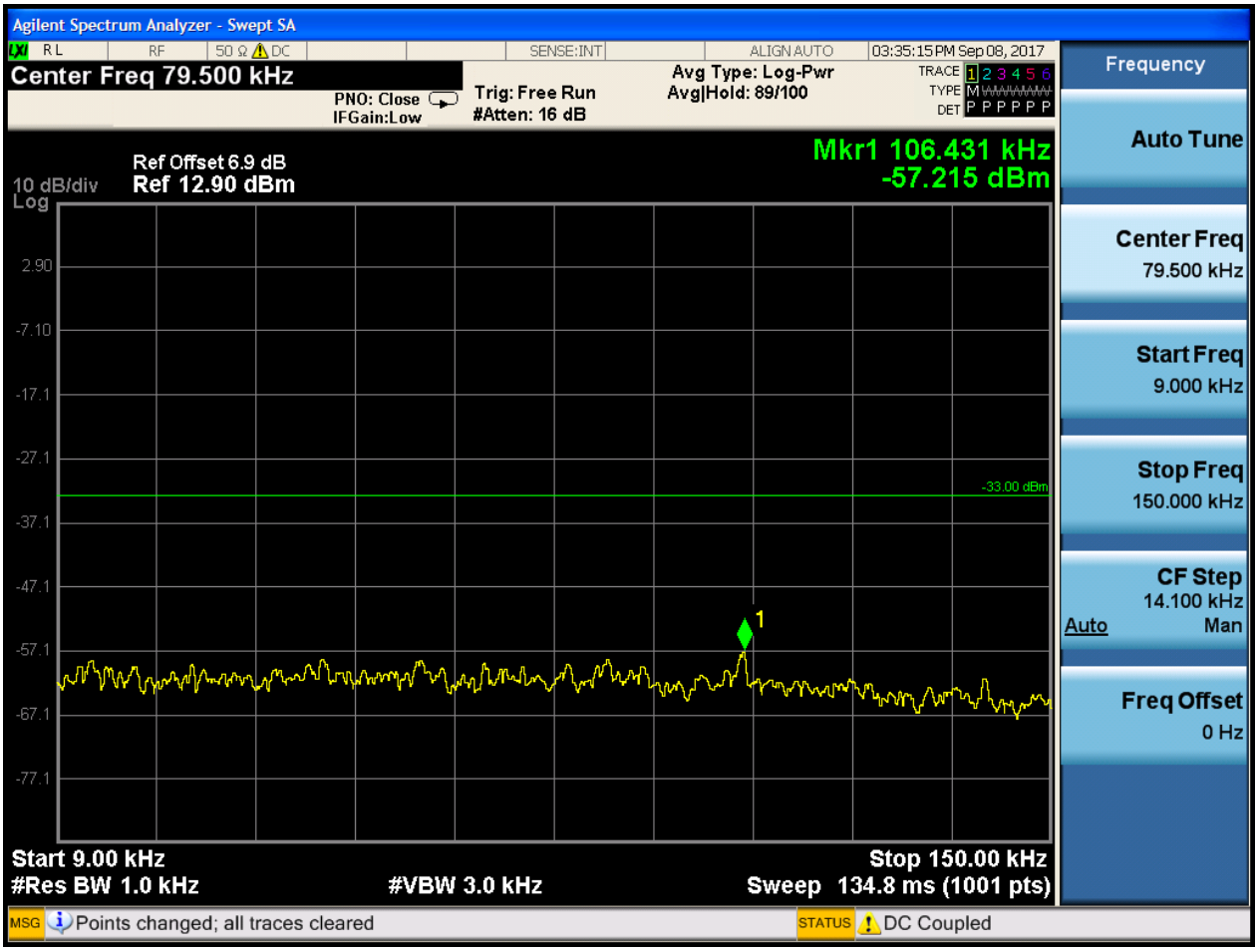
6.1.1.2.4.3 Test Channel = HCH

6.1.1.2.4.3.1 Test RB = RB1#0



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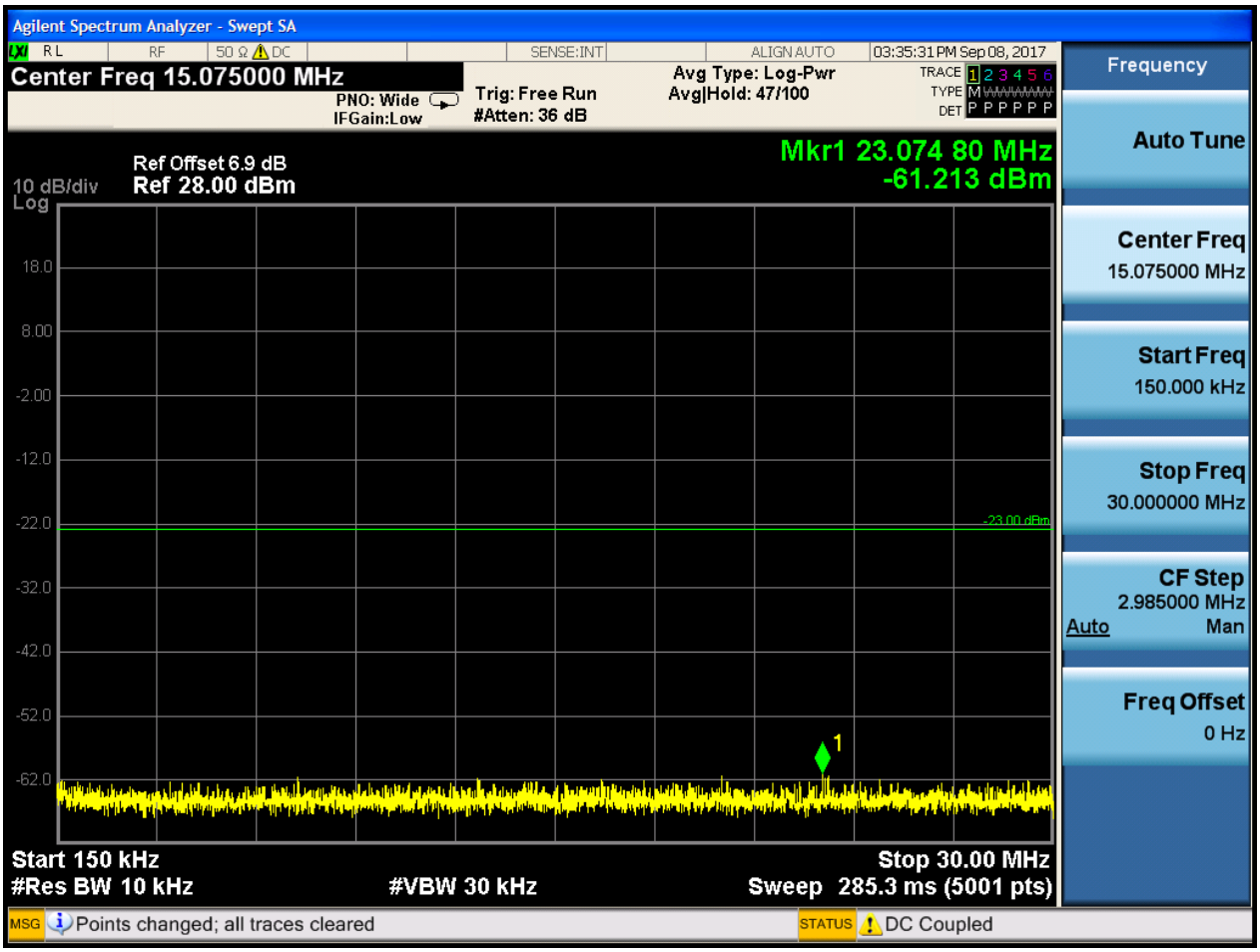

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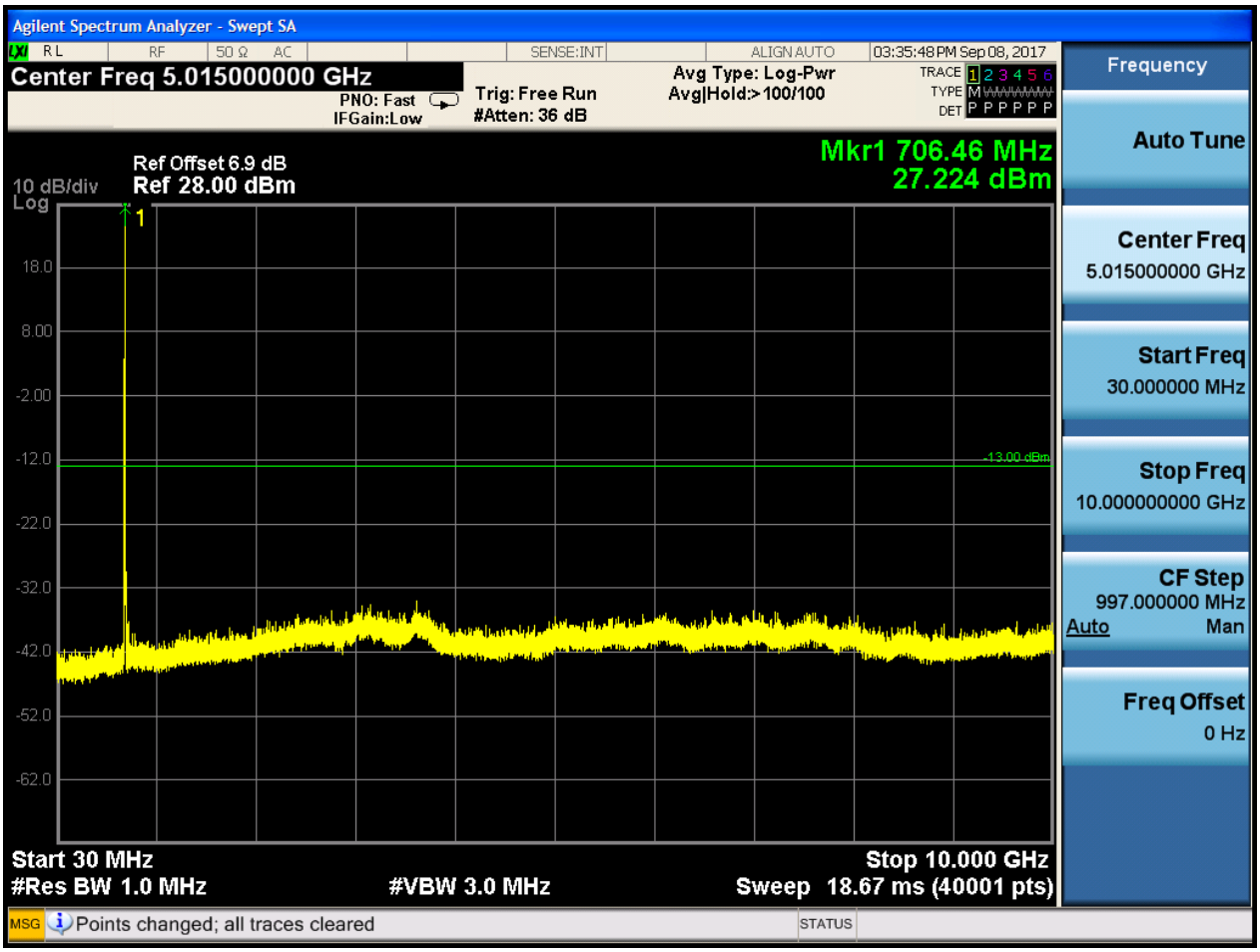

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7Appendix_G: Field Strength of Spurious Radiation

Note: 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

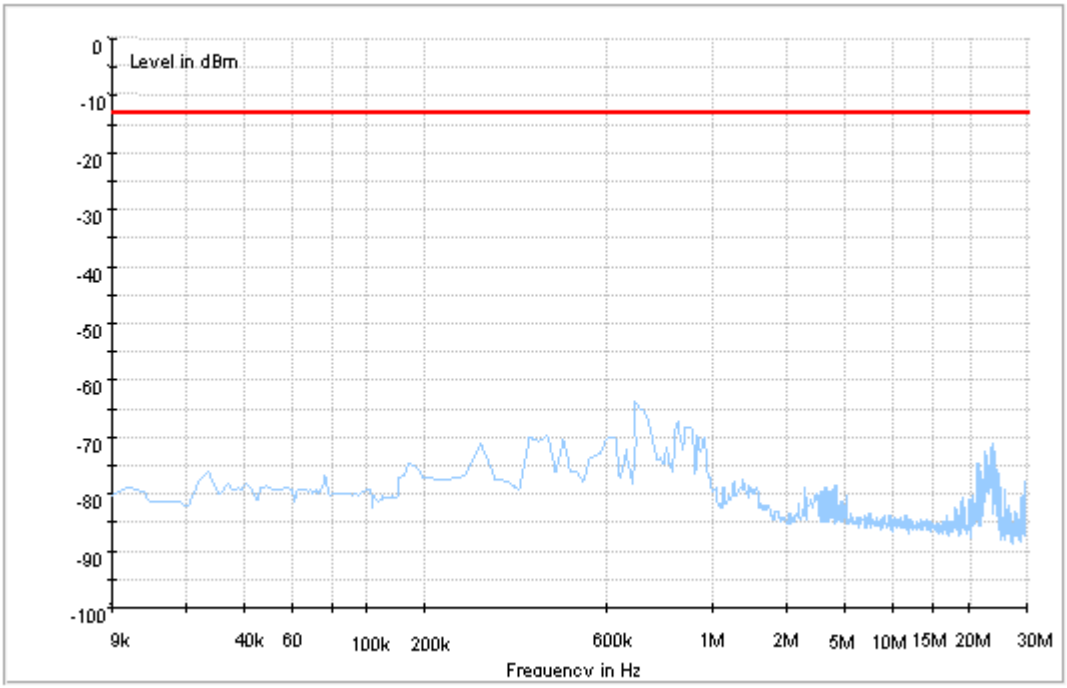
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Part I - Test Plots

7.1 For LTE

7.1.1 Test Band = BAND12_ANT1

7.1.1.1 Test Bandwidth = 1.4



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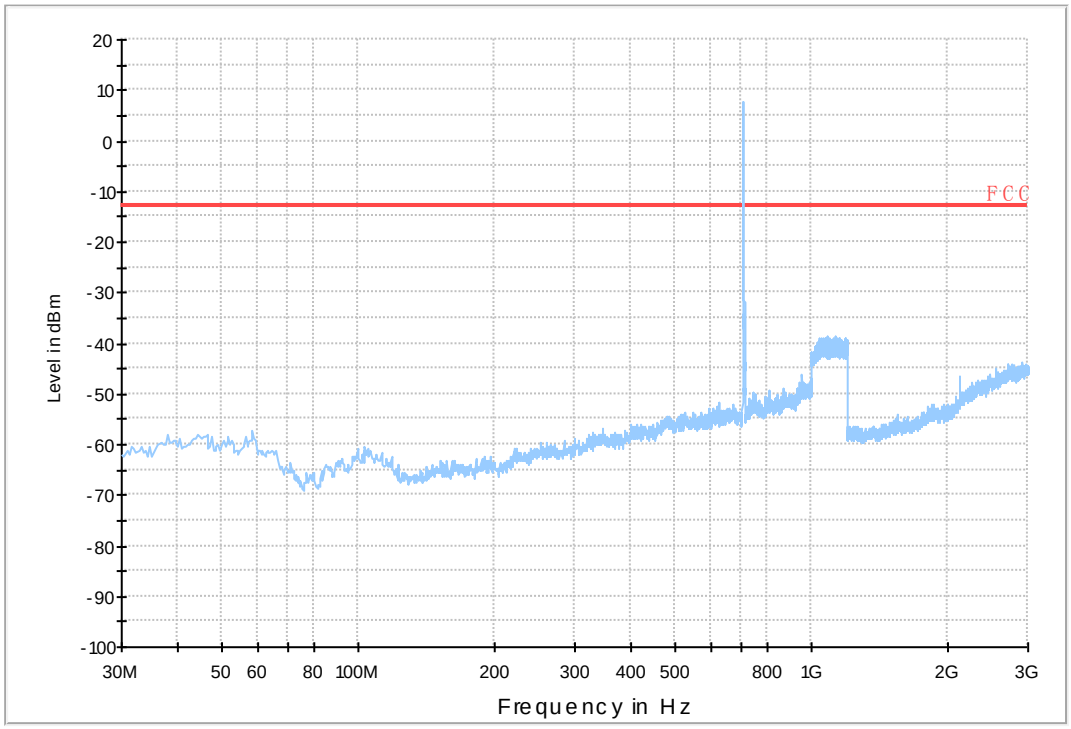
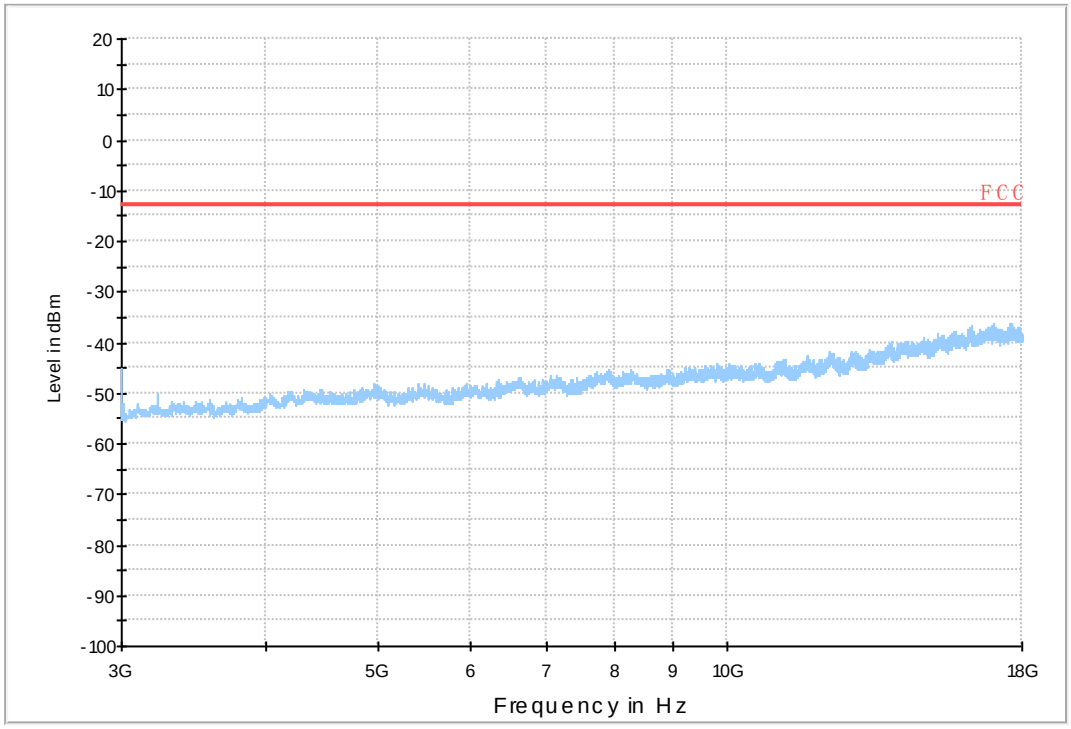
Copy of RSE-TX-DIRECTOR BELOW 1G_L



Copy of RSE-TX-DIRECTOR BELOW 1G_H



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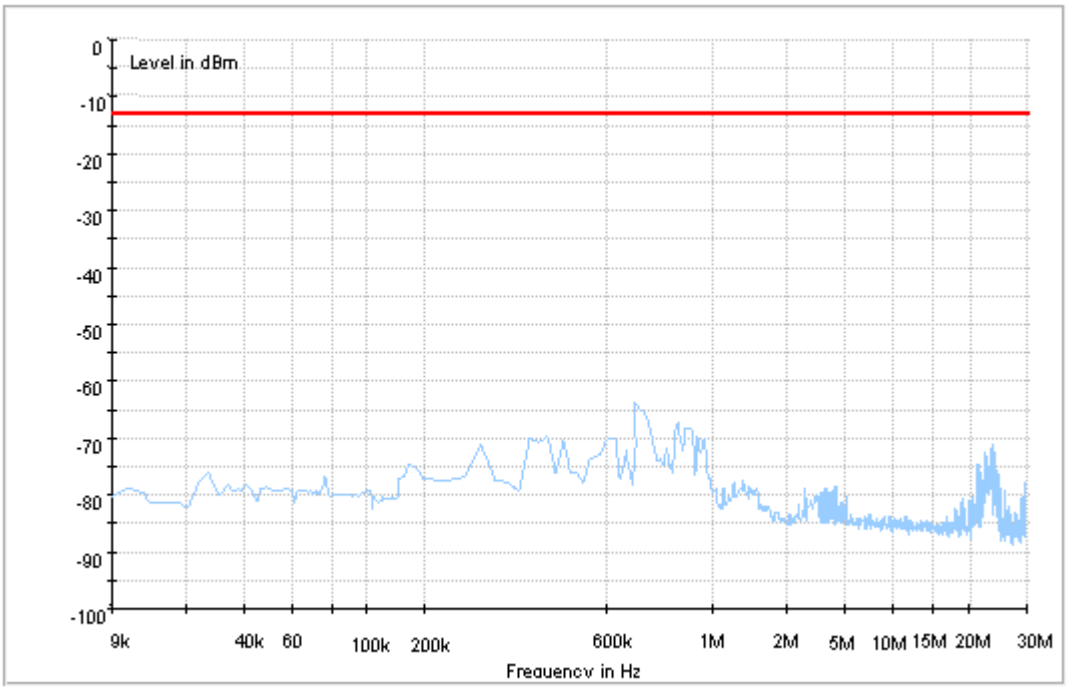
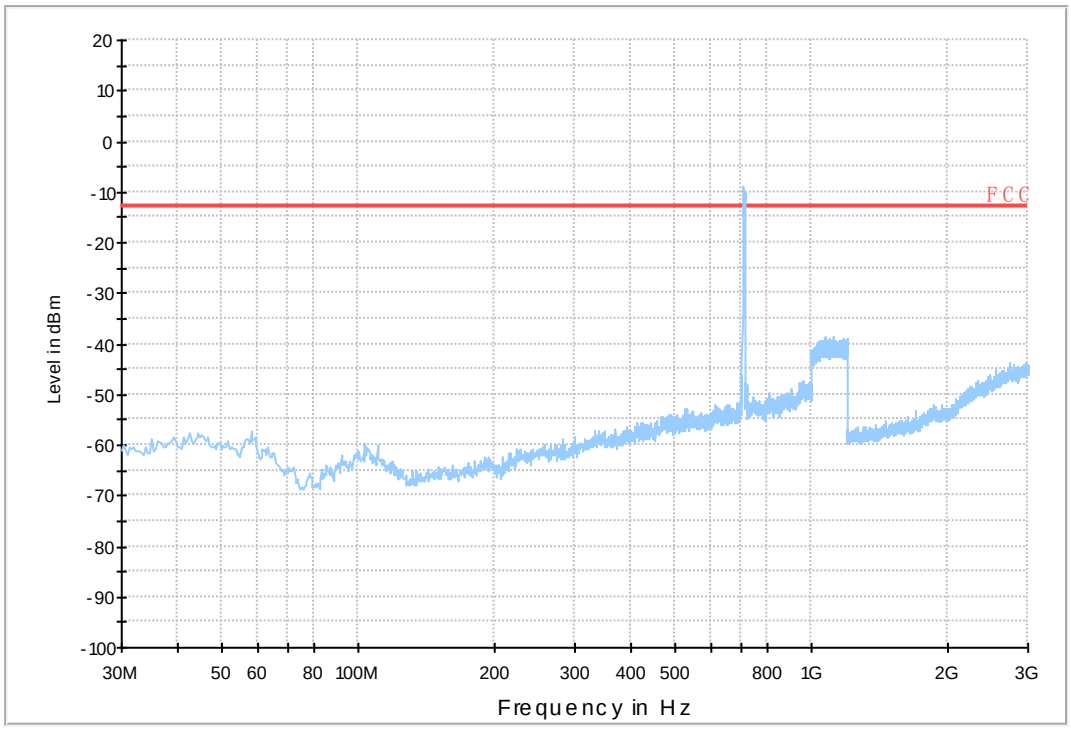
7.1.1.2 Test Bandwidth = 10



Copy of RSE-TX-DIRECTOR BELOW 1G_L



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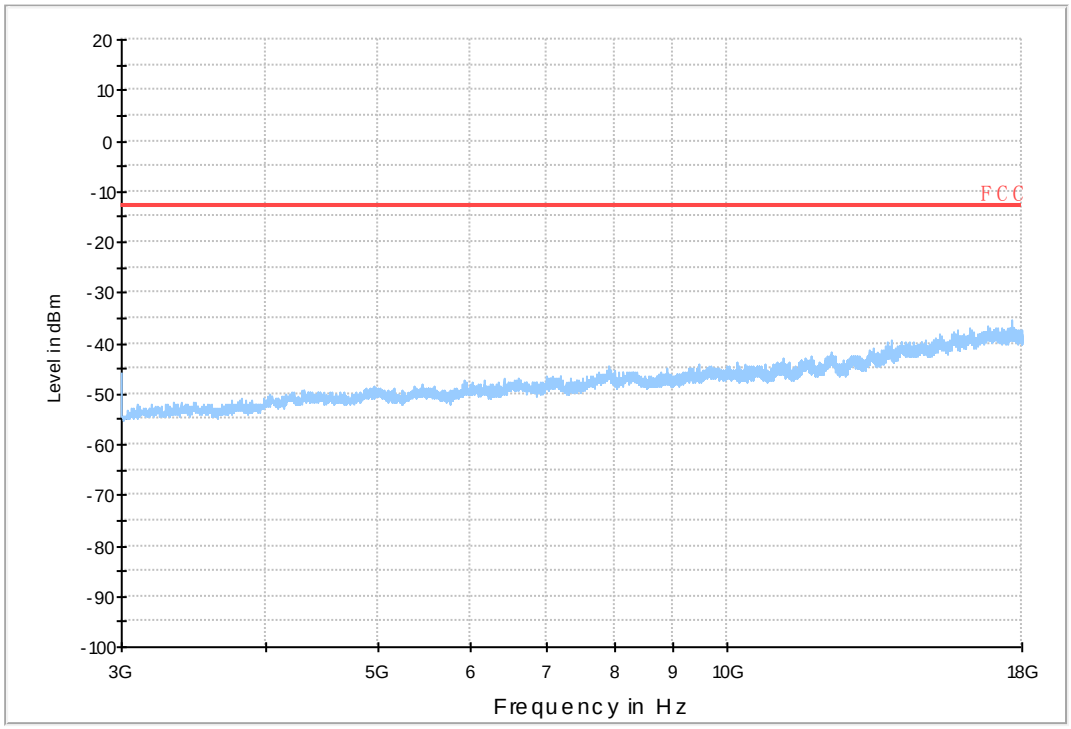
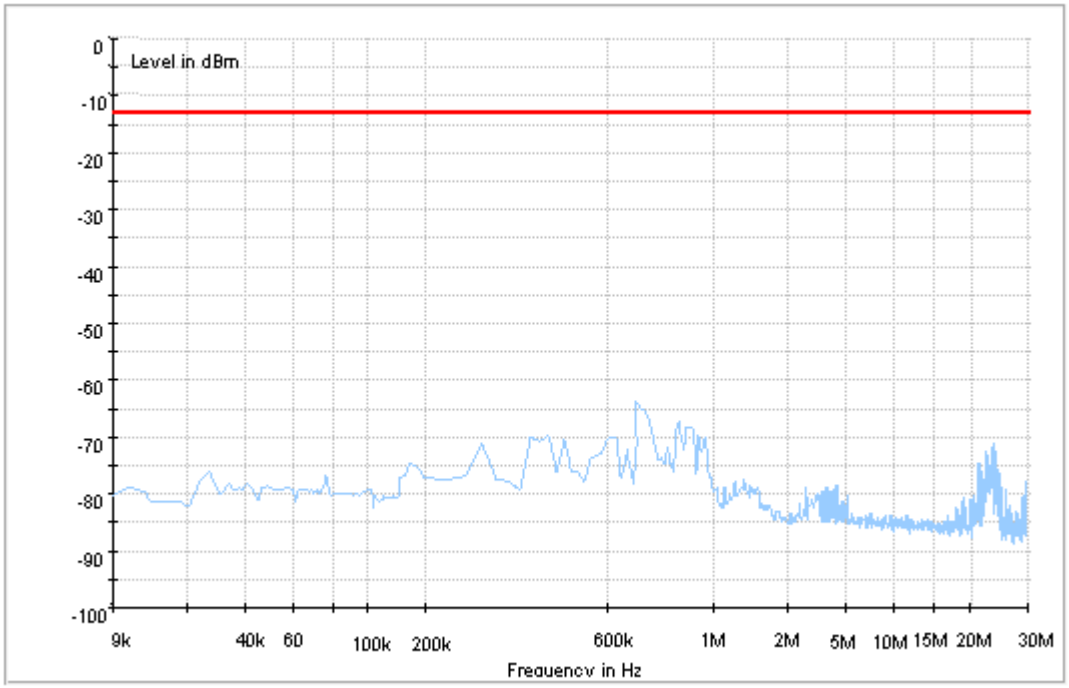


7.1.2 Test Band = BAND12_ANT2

7.1.2.1 Test Bandwidth = 1.4



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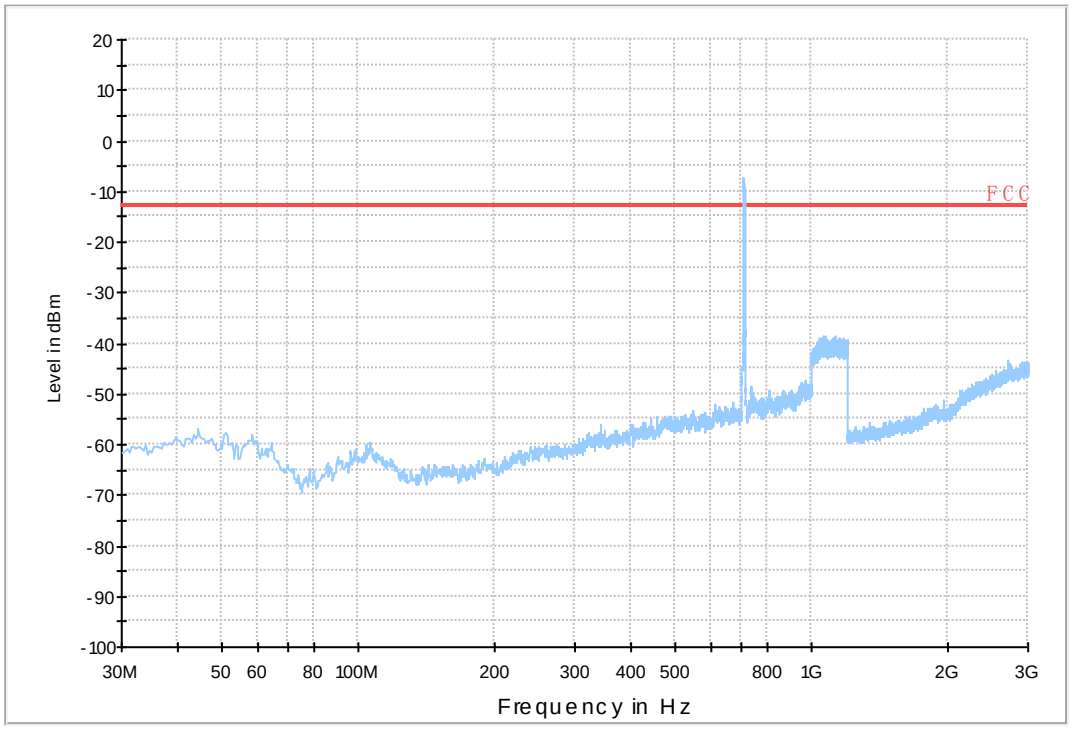

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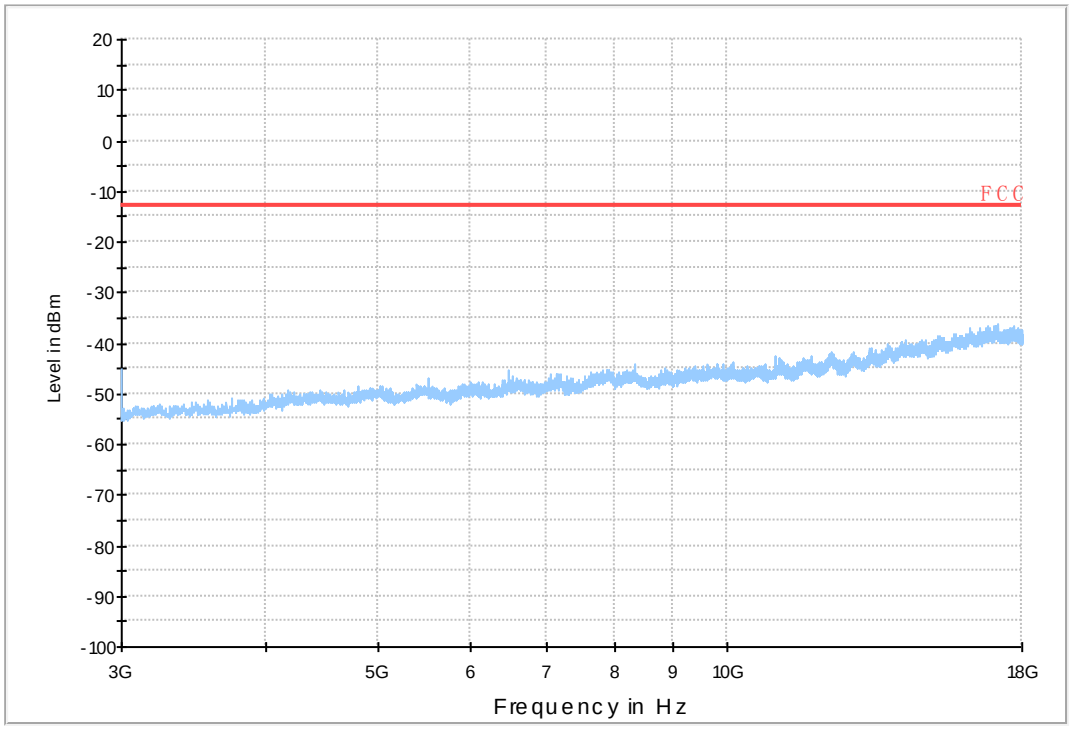

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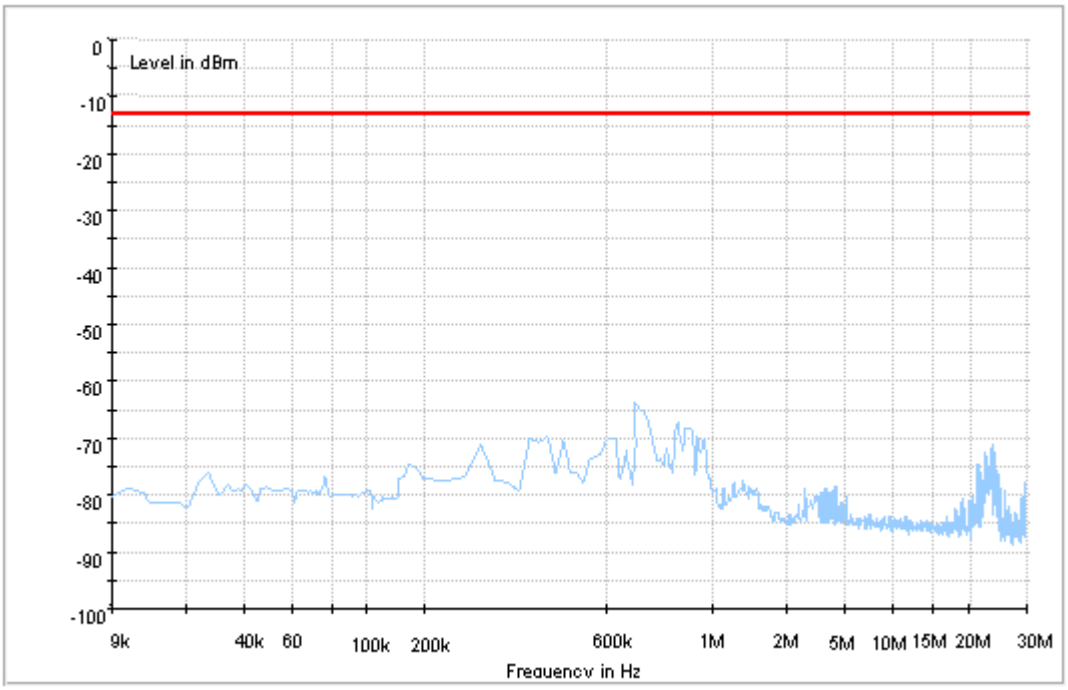
7.1.2.2 Test Bandwidth = 10



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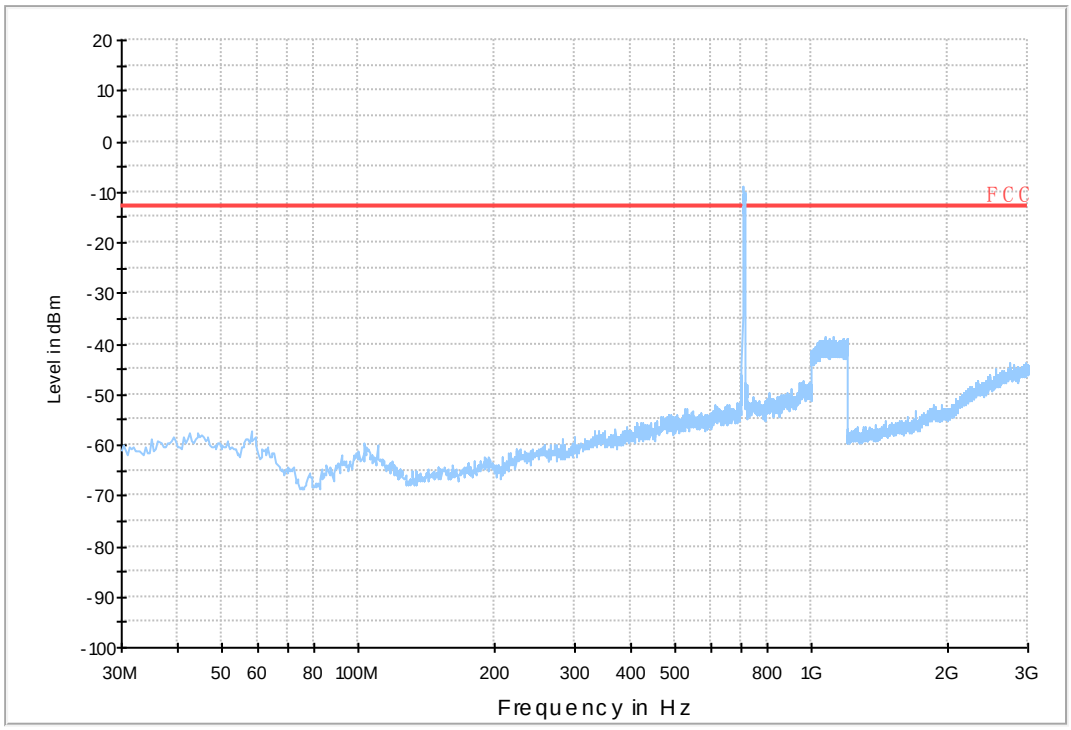

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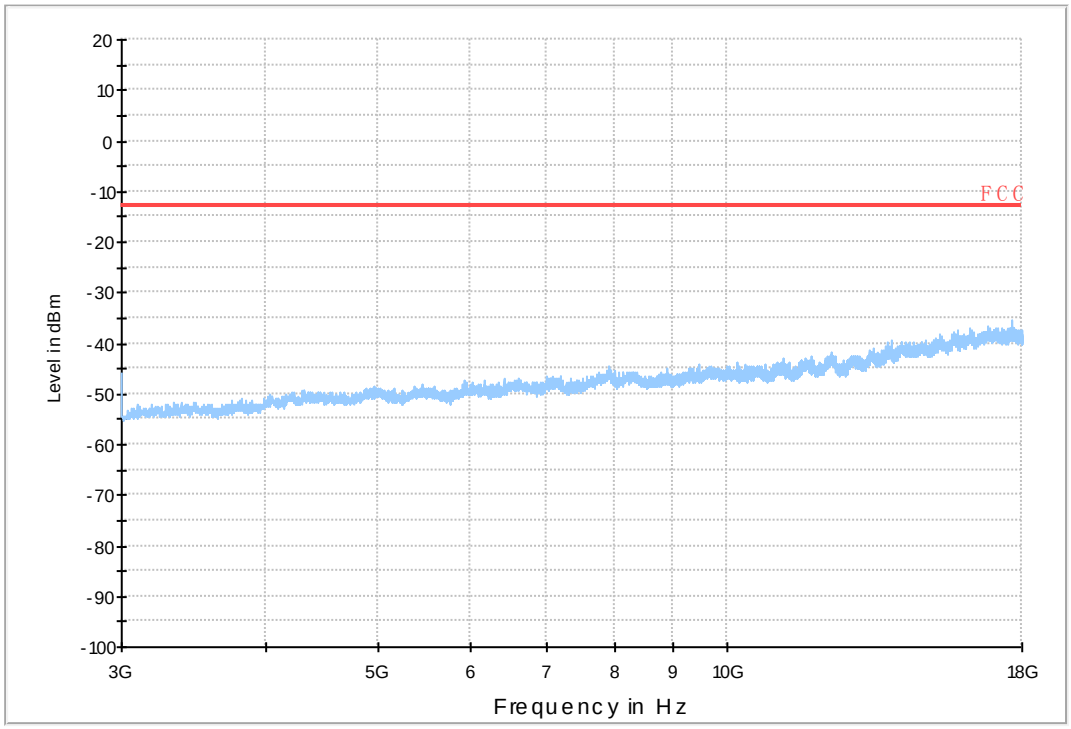

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8Appendix_H: Frequency Stability

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
BAND12	LTE/TM1	1.4	LCH	TN	VL	-23.92	-0.03419	PASS
					VN	-7.95	-0.01136	PASS
					VH	3.23	0.00462	PASS
			MCH	TN	VL	-9.76	-0.0138	PASS
					VN	-12.5	-0.01767	PASS
					VH	-1.46	-0.00206	PASS
			HCH	TN	VL	17.14	0.02396	PASS
					VN	1.13	0.00158	PASS
					VH	-2.02	-0.00282	PASS
		3	LCH	TN	VL	-3.85	-0.0055	PASS
					VN	-5.71	-0.00815	PASS
					VH	-7.65	-0.01092	PASS
			MCH	TN	VL	-2.25	-0.00318	PASS
					VN	0.7	0.00099	PASS
					VH	-11.39	-0.0161	PASS
			HCH	TN	VL	-1.5	-0.0021	PASS
					VN	1.79	0.00251	PASS
					VH	4.23	0.00592	PASS
		5	LCH	TN	VL	-2.17	-0.00309	PASS
					VN	1.47	0.0021	PASS
					VH	-0.37	-0.00053	PASS
			MCH	TN	VL	1.49	0.00211	PASS
					VN	-2.07	-0.00293	PASS
					VH	-0.26	-0.00037	PASS
			HCH	TN	VL	1.16	0.00163	PASS
					VN	1.54	0.00216	PASS
					VH	-0.44	-0.00062	PASS
		10	LCH	TN	VL	-0.66	-0.00094	PASS
					VN	0.6	0.00085	PASS
					VH	-0.92	-0.00131	PASS
			MCH	TN	VL	0.09	0.00013	PASS
					VN	0.36	0.00051	PASS
					VH	1.66	0.00235	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
			HCH	TN	VL	-3.68	-0.00518	PASS
					VN	-2.96	-0.00416	PASS
					VH	-2.98	-0.00419	PASS
	LTE/TM2	1.4	LCH	TN	VL	-9.07	-0.01296	PASS
					VN	-7.87	-0.01125	PASS
					VH	6.18	0.00883	PASS
			MCH	TN	VL	1.65	0.00233	PASS
					VN	-4.95	-0.007	PASS
					VH	-0.27	-0.00038	PASS
			HCH	TN	VL	-11.01	-0.01539	PASS
					VN	16.55	0.02314	PASS
					VH	-6.28	-0.00878	PASS
		3	LCH	TN	VL	2.03	0.0029	PASS
					VN	-9.68	-0.01382	PASS
					VH	-2.43	-0.00347	PASS
			MCH	TN	VL	-7.21	-0.01019	PASS
					VN	-9.88	-0.01396	PASS
					VH	-6.44	-0.0091	PASS
			HCH	TN	VL	-1.69	-0.00237	PASS
					VN	-5.64	-0.00789	PASS
					VH	1.34	0.00188	PASS
		5	LCH	TN	VL	1.42	0.00202	PASS
					VN	-1.59	-0.00227	PASS
					VH	-1.43	-0.00204	PASS
			MCH	TN	VL	-1.17	-0.00165	PASS
					VN	4.46	0.0063	PASS
					VH	-2.65	-0.00375	PASS
			HCH	TN	VL	0.46	0.00064	PASS
					VN	2.72	0.00381	PASS
					VH	-1.07	-0.0015	PASS
		10	LCH	TN	VL	-0.63	-0.00089	PASS
					VN	3.19	0.00453	PASS
					VH	0.36	0.00051	PASS
			MCH	TN	VL	-1.44	-0.00204	PASS
					VN	-0.49	-0.00069	PASS
					VH	1.46	0.00206	PASS
			HCH	TN	VL	-0.4	-0.00056	PASS
					VN	0.47	0.00066	PASS
					VH	-0.7	-0.00098	PASS

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8.1.2Frequency Error vs. Temperature:

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
BAND12	LTE/TM1	1.4	LCH	VN	-30	10.94	0.01564	PASS
					-20	-5.06	-0.00723	PASS
					-10	-13.28	-0.01898	PASS
					0	-1.62	-0.00232	PASS
					10	-7.8	-0.01115	PASS
					20	-13.8	-0.01972	PASS
					30	-23.89	-0.03414	PASS
					40	-18.12	-0.0259	PASS
					50	3.55	0.00507	PASS
			MCH	VN	-30	-9.53	-0.01347	PASS
					-20	8.07	0.01141	PASS
					-10	-10.96	-0.01549	PASS
					0	-15.42	-0.0218	PASS
					10	19.6	0.0277	PASS
					20	-5.87	-0.0083	PASS
					30	-9.24	-0.01306	PASS
					40	10.87	0.01536	PASS
					50	-1.12	-0.00158	PASS
			HCH	VN	-30	18.68	0.02611	PASS
					-20	0.5	0.0007	PASS
					-10	8.65	0.01209	PASS
					0	4.12	0.00576	PASS
					10	13.35	0.01866	PASS
					20	5.21	0.00728	PASS
					30	-28.84	-0.04032	PASS
					40	5.69	0.00795	PASS
					50	21.84	0.03053	PASS
		3	LCH	VN	-30	-9.63	-0.01375	PASS
					-20	-7.54	-0.01076	PASS
					-10	-48.55	-0.06931	PASS
					0	1.77	0.00253	PASS
					10	-7.52	-0.01074	PASS
					20	-2.9	-0.00414	PASS
					30	-0.56	-0.0008	PASS
					40	-6.38	-0.00911	PASS
					50	1.75	0.0025	PASS
			MCH	VN	-30	-7.34	-0.01037	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	4.35	0.00615	PASS
					-10	-8.44	-0.01193	PASS
					0	-7.82	-0.01105	PASS
					10	-6.91	-0.00977	PASS
					20	1.73	0.00245	PASS
					30	1.3	0.00184	PASS
					40	3.12	0.00441	PASS
					50	3.52	0.00498	PASS
			HCH	VN	-30	-2.47	-0.00346	PASS
					-20	-1.86	-0.0026	PASS
					-10	1.39	0.00195	PASS
					0	3.32	0.00465	PASS
					10	-5.87	-0.00822	PASS
					20	-2.76	-0.00386	PASS
					30	-3.12	-0.00437	PASS
					40	-0.26	-0.00036	PASS
					50	-0.59	-0.00083	PASS
		5	LCH	VN	-30	-3.81	-0.00543	PASS
					-20	3.65	0.0052	PASS
					-10	-0.99	-0.00141	PASS
					0	0.34	0.00048	PASS
					10	-0.19	-0.00027	PASS
					20	-0.66	-0.00094	PASS
					30	-1.5	-0.00214	PASS
					40	-1	-0.00143	PASS
					50	-1.43	-0.00204	PASS
			MCH	VN	-30	0.73	0.00103	PASS
					-20	-0.87	-0.00123	PASS
					-10	0.2	0.00028	PASS
					0	0.64	0.0009	PASS
					10	-0.5	-0.00071	PASS
					20	-2.96	-0.00418	PASS
					30	-0.11	-0.00016	PASS
					40	-0.41	-0.00058	PASS
					50	-1.79	-0.00253	PASS
			HCH	VN	-30	-0.36	-0.0005	PASS
					-20	-0.89	-0.00125	PASS
					-10	-4.01	-0.00562	PASS
					0	0.59	0.00083	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	1.13	0.00158	PASS
					20	2.09	0.00293	PASS
					30	-1.42	-0.00199	PASS
					40	2.59	0.00363	PASS
					50	-0.79	-0.00111	PASS
		10	LCH	VN	-30	3.25	0.00462	PASS
					-20	2.43	0.00345	PASS
					-10	0.43	0.00061	PASS
					0	1.79	0.00254	PASS
					10	-1.5	-0.00213	PASS
					20	2.8	0.00398	PASS
					30	1.1	0.00156	PASS
					40	1.95	0.00277	PASS
					50	4.42	0.00628	PASS
			MCH	VN	-30	5.36	0.00758	PASS
					-20	5.95	0.00841	PASS
					-10	0.17	0.00024	PASS
					0	4.46	0.0063	PASS
					10	0.74	0.00105	PASS
					20	1.34	0.00189	PASS
					30	3.55	0.00502	PASS
					40	1.93	0.00273	PASS
					50	5.88	0.00831	PASS
			HCH	VN	-30	-3.5	-0.00492	PASS
					-20	-1.24	-0.00174	PASS
					-10	-1.17	-0.00165	PASS
					0	-0.99	-0.00139	PASS
					10	-3.22	-0.00453	PASS
					20	-1.72	-0.00242	PASS
					30	-3.33	-0.00468	PASS
					40	-1.44	-0.00203	PASS
					50	-1.89	-0.00266	PASS
	LTE/TM2	1.4	LCH	VN	-30	-13.19	-0.01885	PASS
					-20	-8.67	-0.01239	PASS
					-10	-12.13	-0.01734	PASS
					0	-9.41	-0.01345	PASS
					10	-11.63	-0.01662	PASS
					20	-16.12	-0.02304	PASS
					30	-5.65	-0.00807	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	1.13	0.00161	PASS
					50	4.18	0.00597	PASS
			MCH	VN	-30	-15.36	-0.02171	PASS
					-20	-6.34	-0.00896	PASS
					-10	-8.54	-0.01207	PASS
					0	-2.05	-0.0029	PASS
					10	-13.76	-0.01945	PASS
					20	3.18	0.00449	PASS
					30	-1.99	-0.00281	PASS
					40	8.21	0.0116	PASS
					50	14.36	0.0203	PASS
			HCH	VN	-30	-12.56	-0.01756	PASS
					-20	2.76	0.00386	PASS
					-10	-6.61	-0.00924	PASS
					0	-0.54	-0.00075	PASS
					10	23.1	0.03229	PASS
					20	5.55	0.00776	PASS
					30	-4.23	-0.00591	PASS
					40	-15.56	-0.02175	PASS
					50	-7.37	-0.0103	PASS
		3	LCH	VN	-30	3.81	0.00544	PASS
					-20	0.01	0.00001	PASS
					-10	-9.94	-0.01419	PASS
					0	6.25	0.00892	PASS
					10	3.05	0.00435	PASS
					20	9.31	0.01329	PASS
					30	7.24	0.01034	PASS
					40	-8.67	-0.01238	PASS
					50	1.49	0.00213	PASS
			MCH	VN	-30	1.63	0.0023	PASS
					-20	5.14	0.00727	PASS
					-10	-4.29	-0.00606	PASS
					0	-3.68	-0.0052	PASS
					10	8.05	0.01138	PASS
					20	5.19	0.00734	PASS
					30	3.72	0.00526	PASS
					40	-7.87	-0.01112	PASS
					50	3.36	0.00475	PASS
			HCH	VN	-30	7.75	0.01085	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	-2.6	-0.00364	PASS
					-10	-6.24	-0.00873	PASS
					0	-0.89	-0.00125	PASS
					10	1.75	0.00245	PASS
					20	-0.41	-0.00057	PASS
					30	-0.76	-0.00106	PASS
					40	-2.76	-0.00386	PASS
					50	-6.44	-0.00901	PASS
		5	LCH	VN	-30	-1.4	-0.002	PASS
					-20	-1.32	-0.00188	PASS
					-10	-2.1	-0.00299	PASS
					0	0.17	0.00024	PASS
					10	-0.21	-0.0003	PASS
					20	0.67	0.00096	PASS
					30	-0.77	-0.0011	PASS
					40	-0.63	-0.0009	PASS
					50	0.49	0.0007	PASS
			MCH	VN	-30	-1.66	-0.00235	PASS
					-20	1	0.00141	PASS
					-10	0.34	0.00048	PASS
					0	0.47	0.00066	PASS
					10	-2.35	-0.00332	PASS
					20	1.49	0.00211	PASS
					30	-1.72	-0.00243	PASS
					40	-0.26	-0.00037	PASS
					50	1.86	0.00263	PASS
			HCH	VN	-30	0.92	0.00129	PASS
					-20	0.79	0.00111	PASS
					-10	-2.02	-0.00283	PASS
					0	-1	-0.0014	PASS
					10	0.66	0.00093	PASS
					20	-0.13	-0.00018	PASS
					30	-1.09	-0.00153	PASS
					40	2.42	0.00339	PASS
					50	2.17	0.00304	PASS
		10	LCH	VN	-30	2.15	0.00305	PASS
					-20	0.41	0.00058	PASS
					-10	0.69	0.00098	PASS
					0	3.83	0.00544	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	2.55	0.00362	PASS
					20	2.29	0.00325	PASS
					30	0.89	0.00126	PASS
					40	0.43	0.00061	PASS
					50	1.76	0.0025	PASS
			MCH	VN	-30	-1.07	-0.00151	PASS
					-20	0.2	0.00028	PASS
					-10	-0.7	-0.00099	PASS
					0	-0.34	-0.00048	PASS
					10	-0.56	-0.00079	PASS
					20	0.37	0.00052	PASS
					30	-1.57	-0.00222	PASS
					40	0.79	0.00112	PASS
					50	-0.29	-0.00041	PASS
			HCH	VN	-30	0.96	0.00135	PASS
					-20	-0.23	-0.00032	PASS
					-10	1.1	0.00155	PASS
					0	-0.17	-0.00024	PASS
					10	0.62	0.00087	PASS
					20	-0.84	-0.00118	PASS
					30	0.6	0.00084	PASS
					40	0.57	0.0008	PASS
					50	0.11	0.00015	PASS

END

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