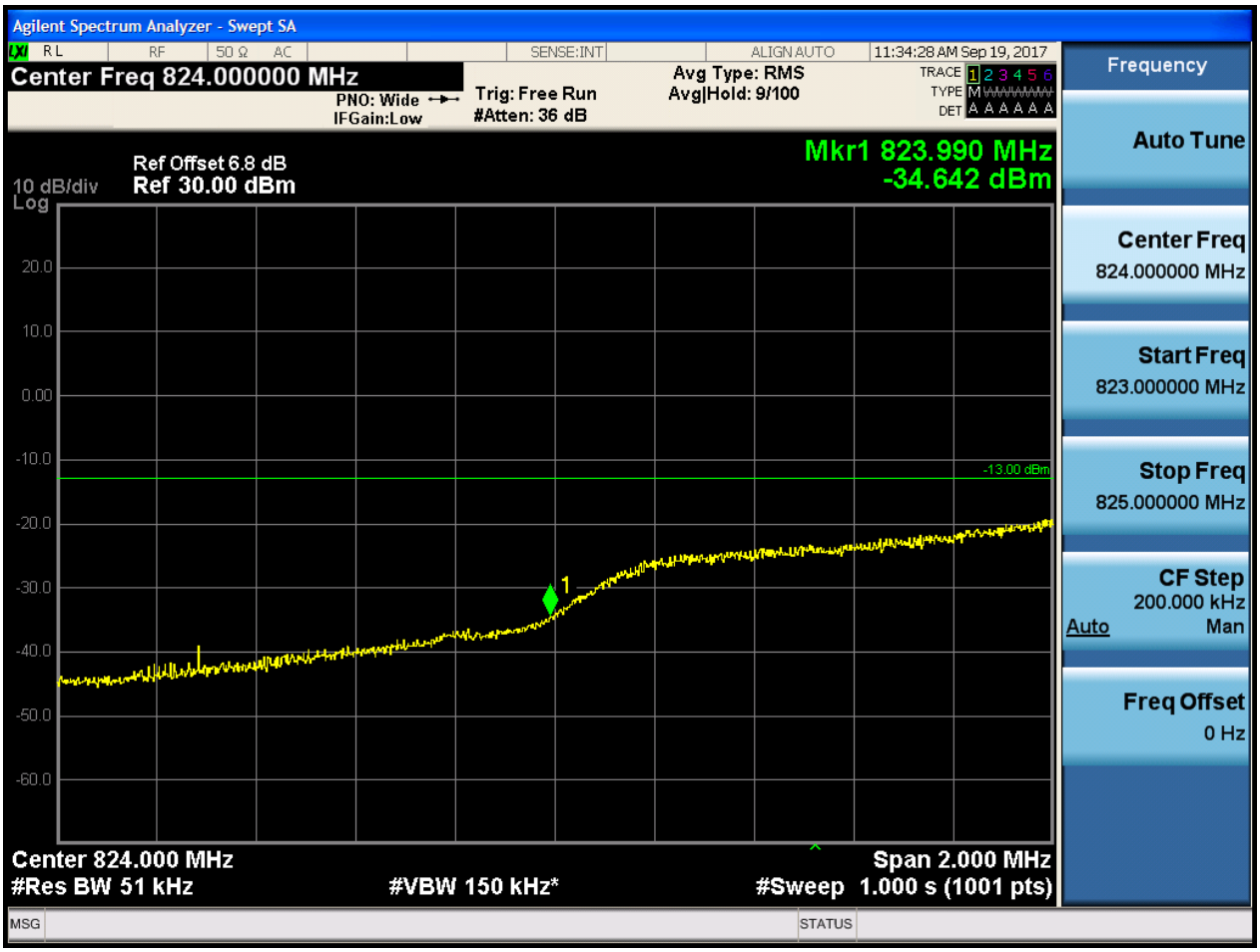
5.1.1.2.3.1.3 Test RB = RB12#6



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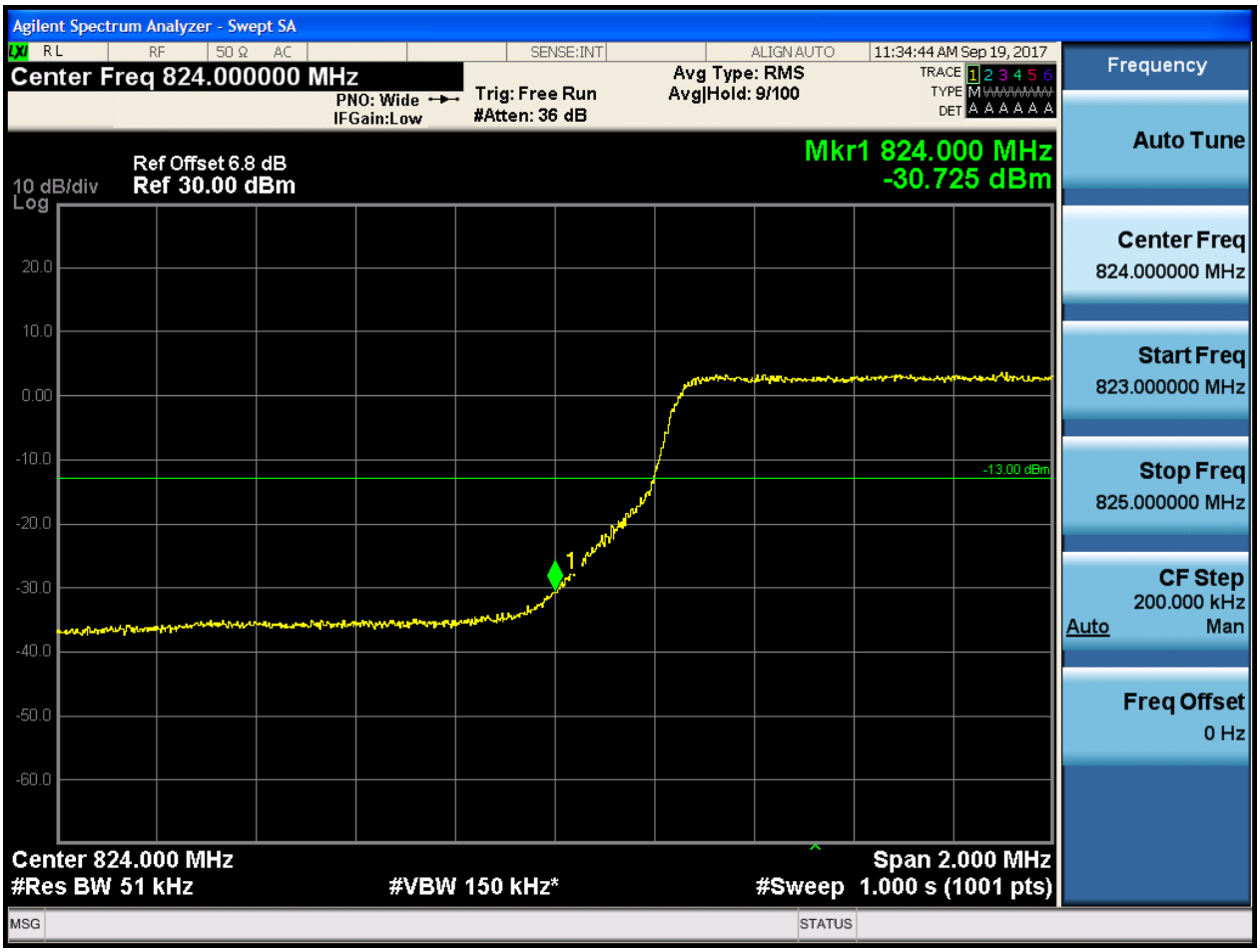
5.1.1.2.3.1.4 Test RB = RB25#0



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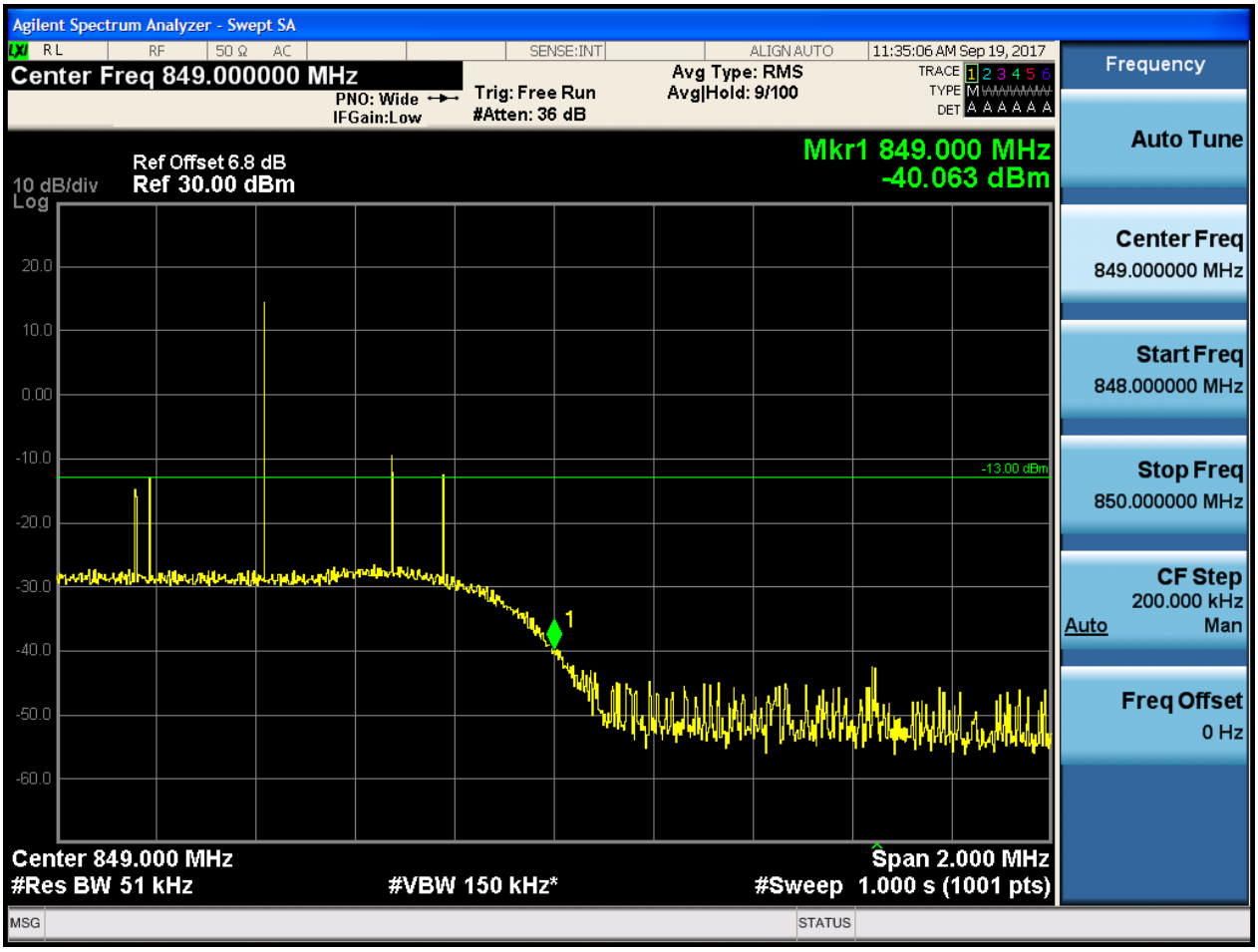
5.1.1.2.3.2 Test Channel = HCH

5.1.1.2.3.2.1 Test RB = RB1#0



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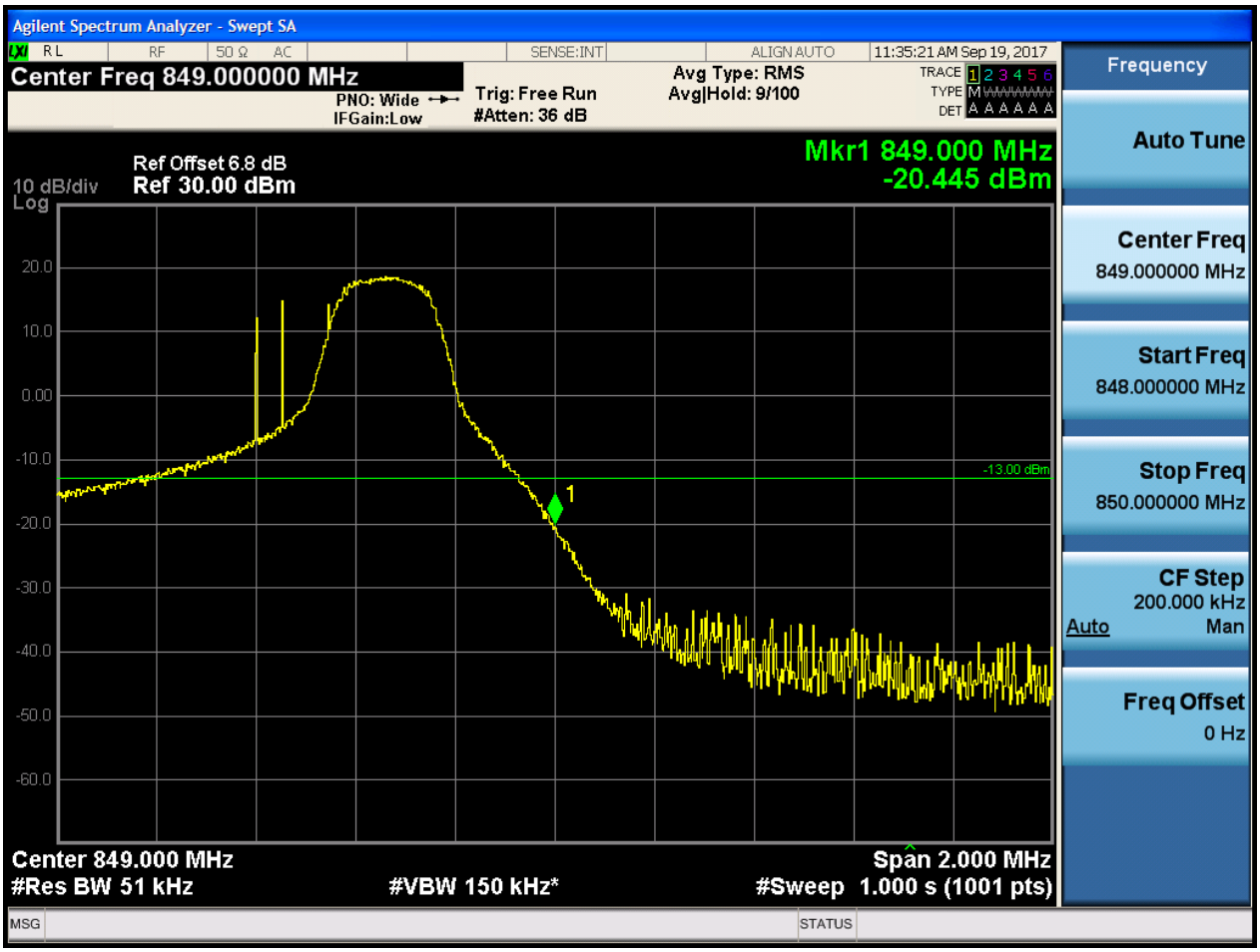
5.1.1.2.3.2.2 Test RB = RB1#24



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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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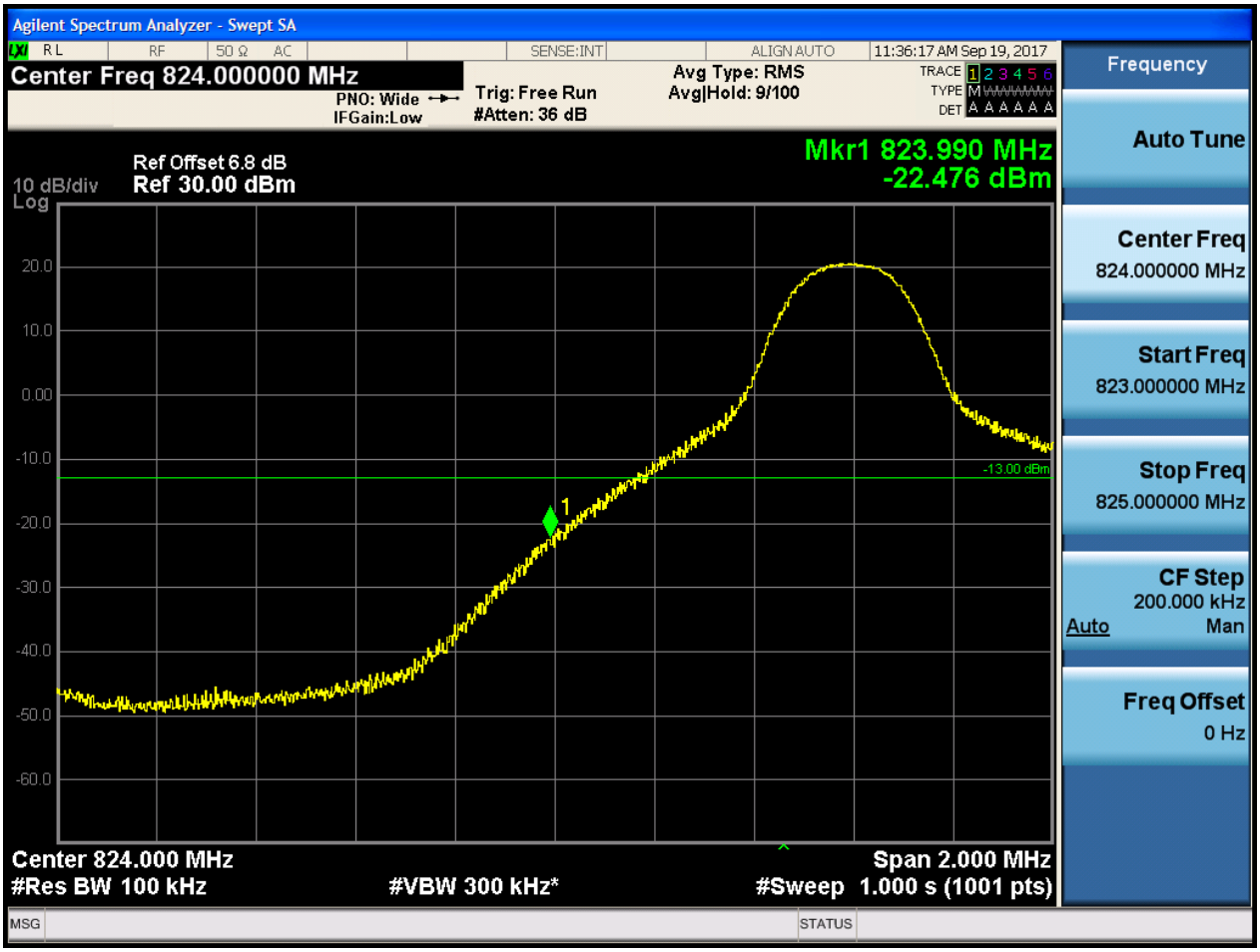
5.1.1.2.4 Test Bandwidth = 10

5.1.1.2.4.1 Test Channel = LCH

5.1.1.2.4.1.1 Test RB = RB1#0



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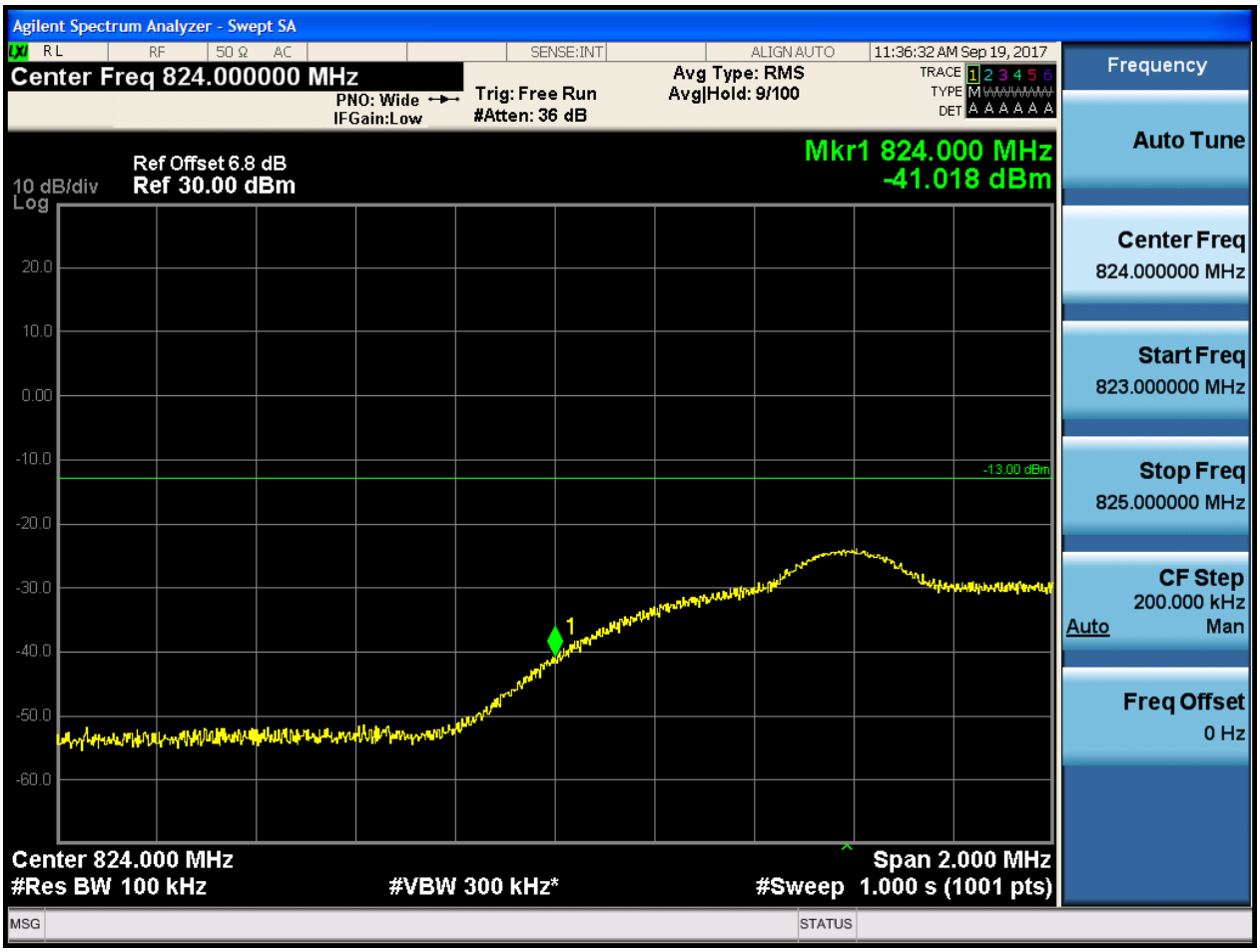
5.1.1.2.4.1.2 Test RB = RB1#49



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5.1.1.2.4.1.3 Test RB = RB25#13

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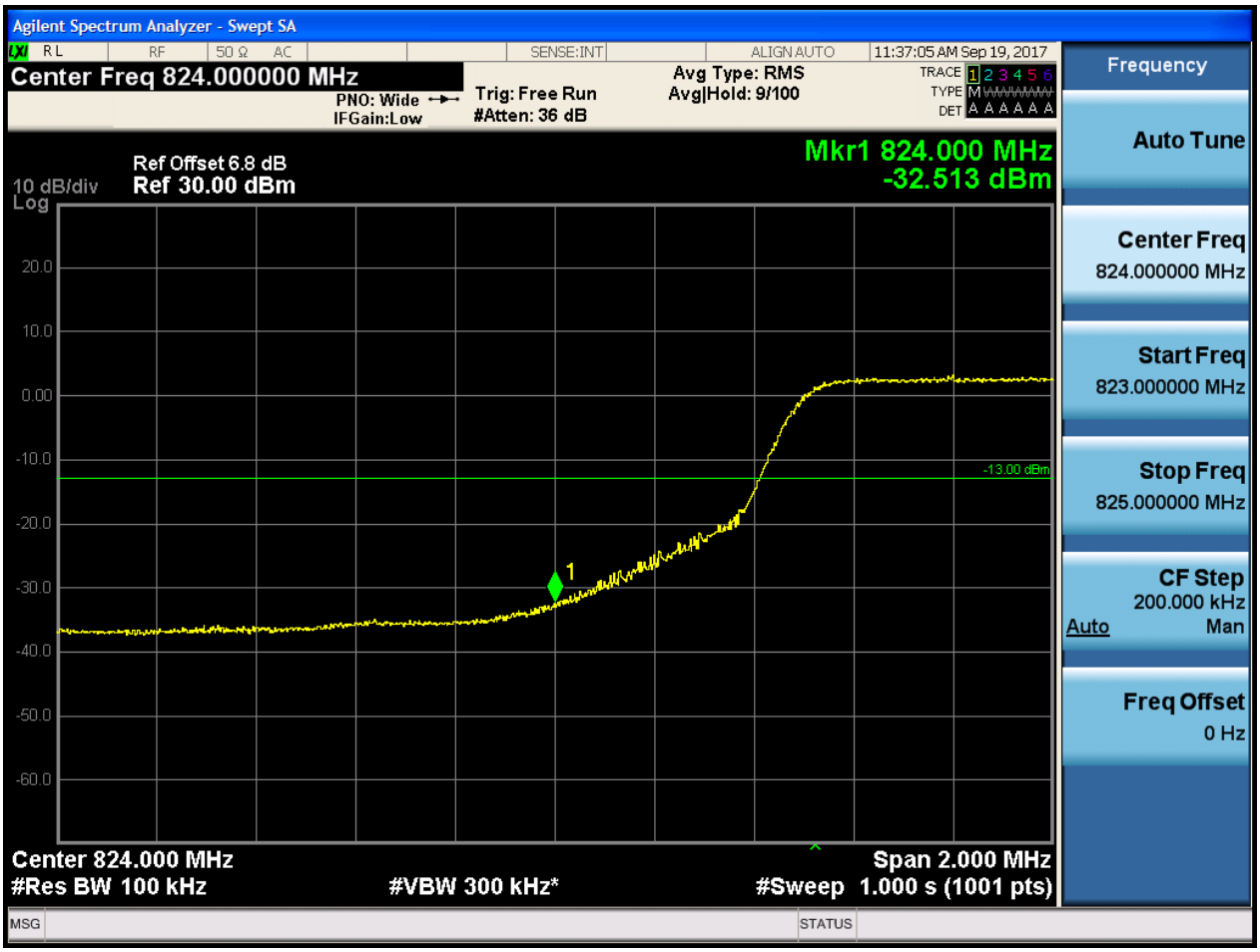
5.1.1.2.4.1.4 Test RB = RB50#0



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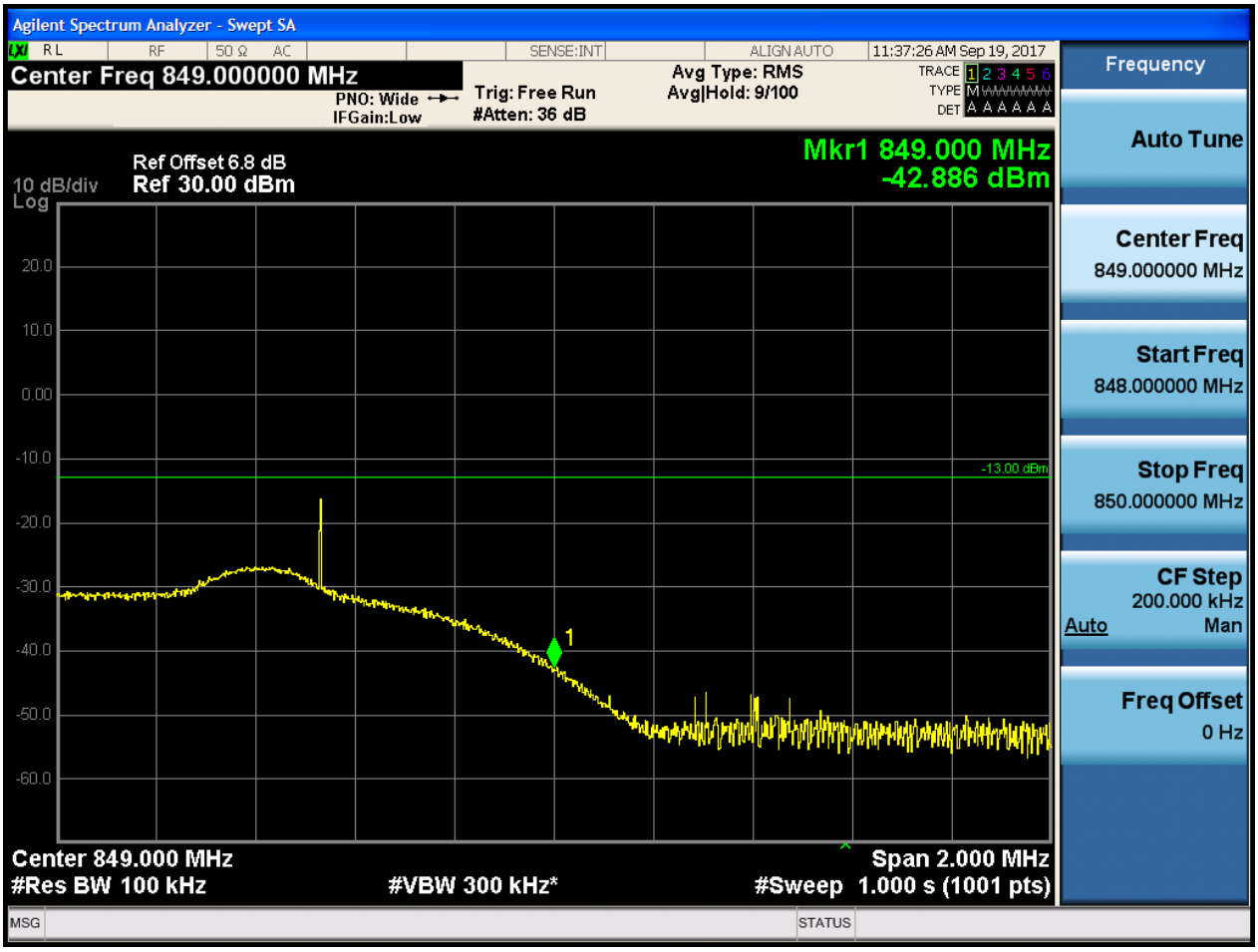
5.1.1.2.4.2 Test Channel = HCH

5.1.1.2.4.2.1 Test RB = RB1#0



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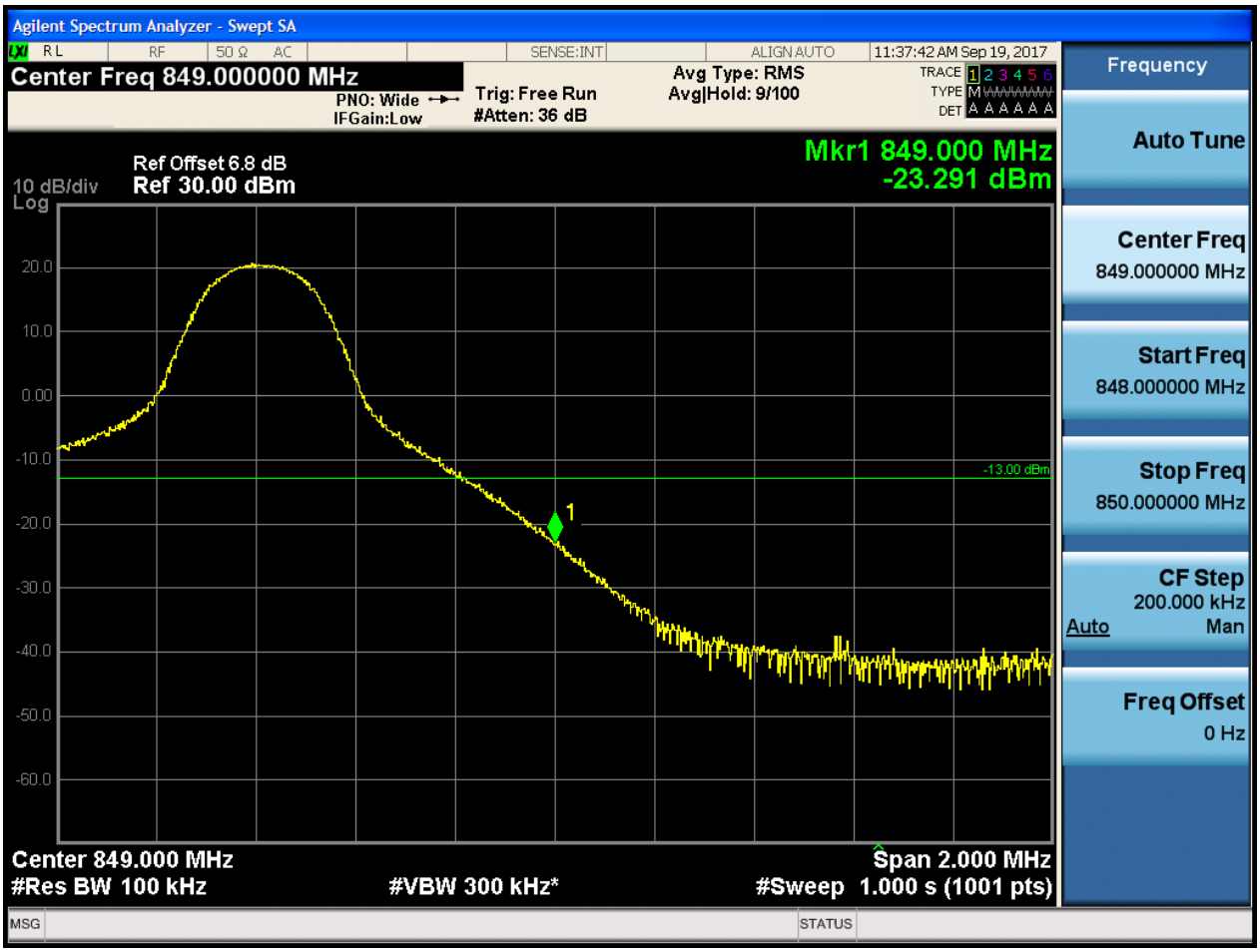
5.1.1.2.4.2.2 Test RB = RB1#49



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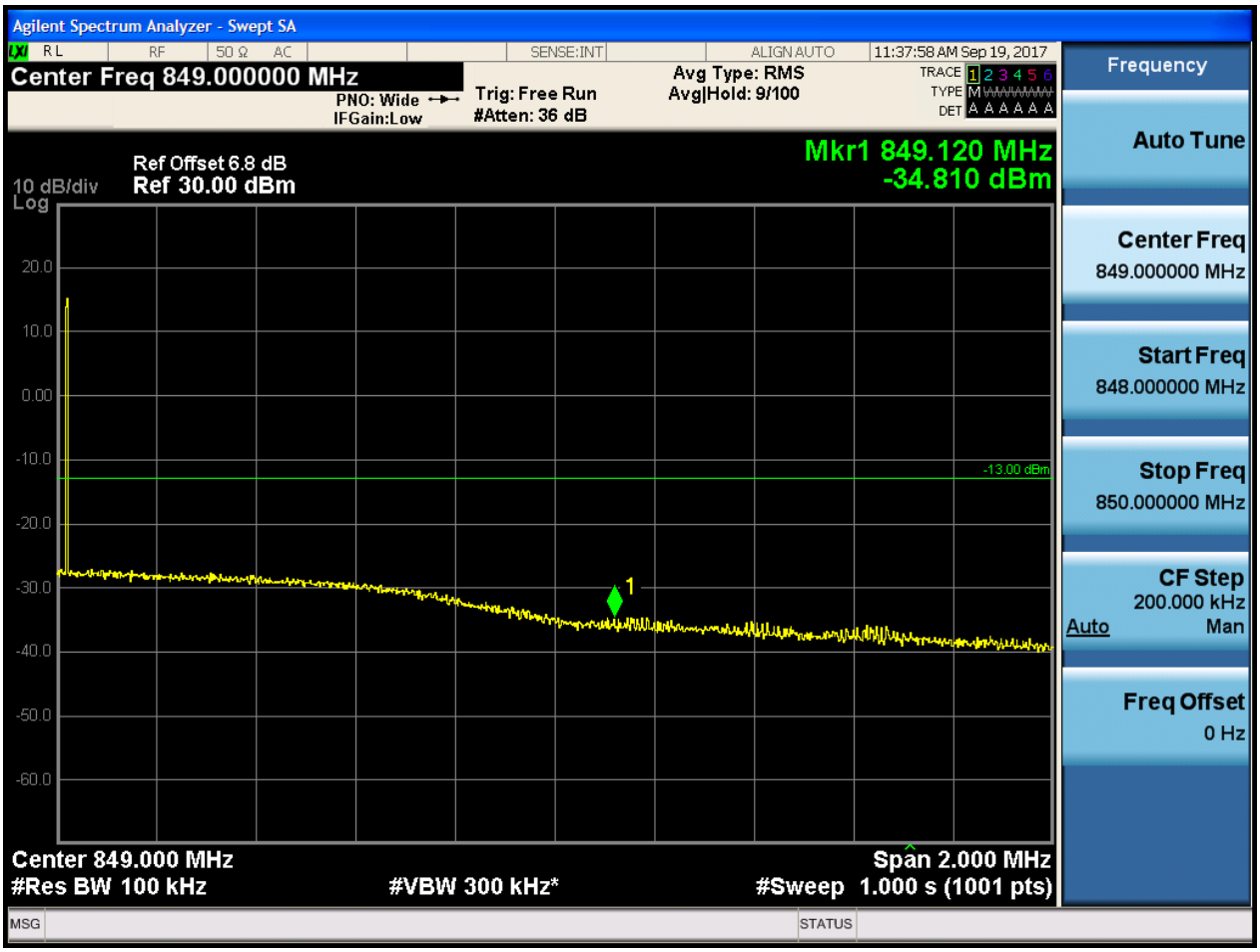
5.1.1.2.4.2.3 Test RB = RB25#13



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5.1.1.2.4.2.4 Test RB = RB50#0

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3Appendix_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 = BAND5

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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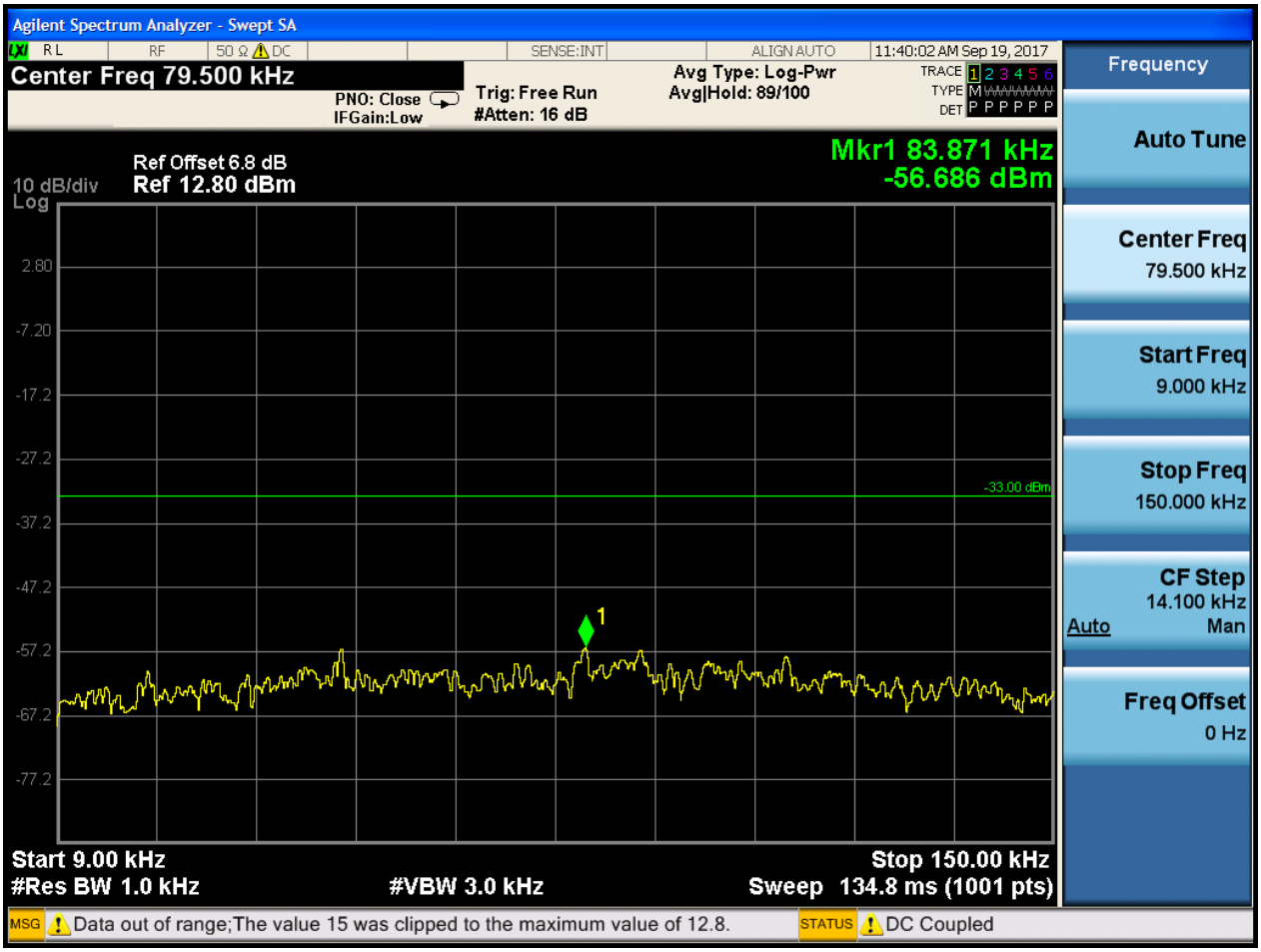

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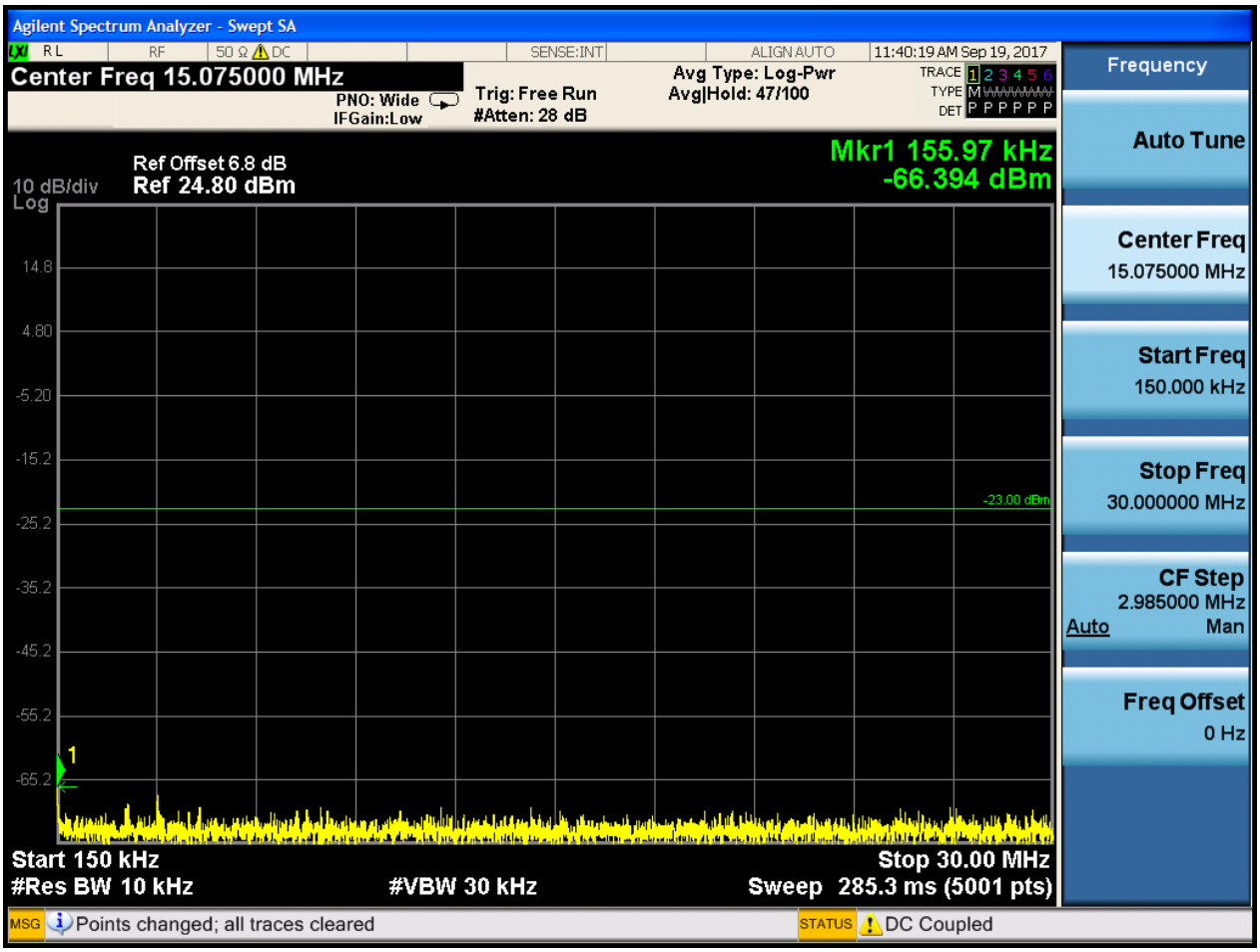

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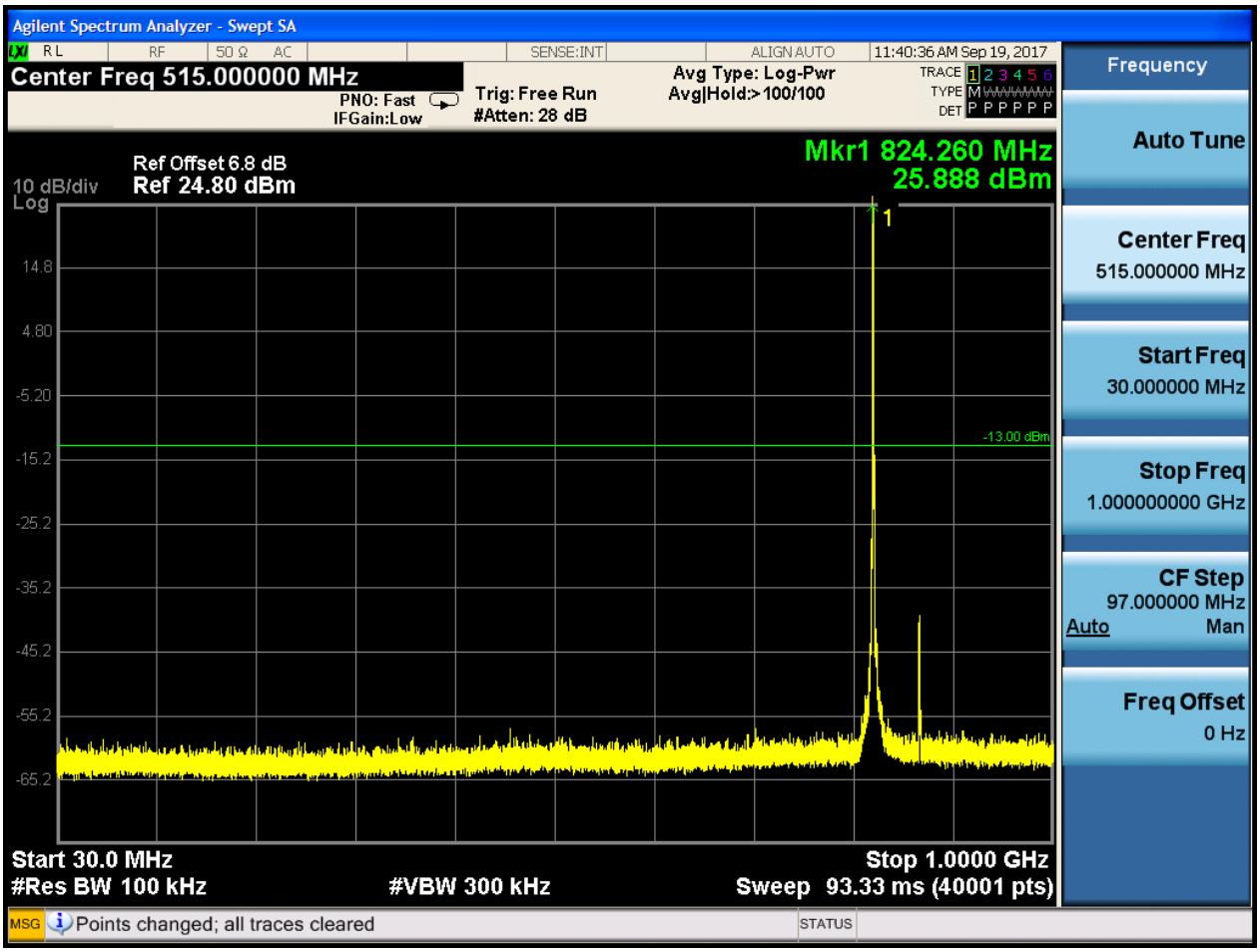

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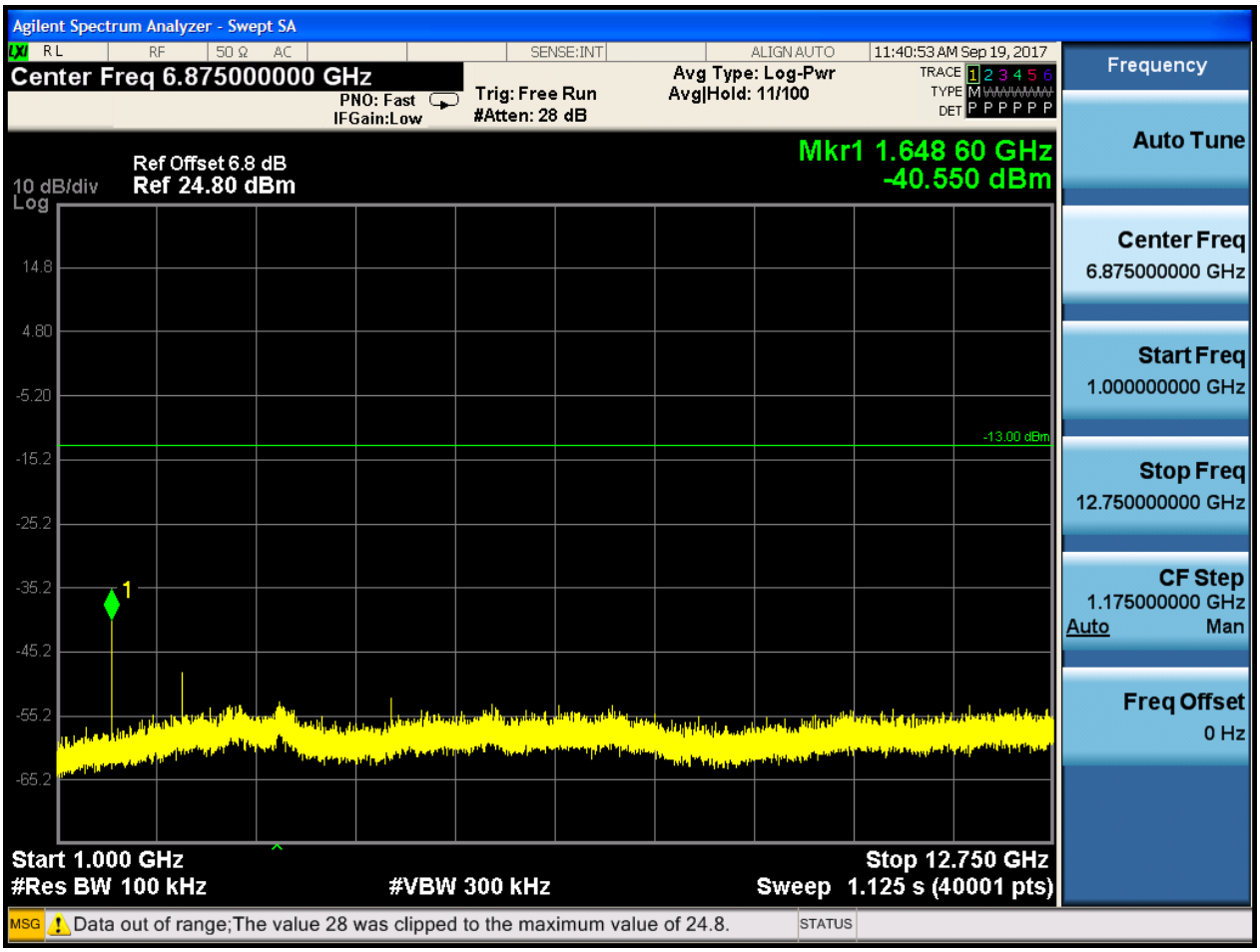

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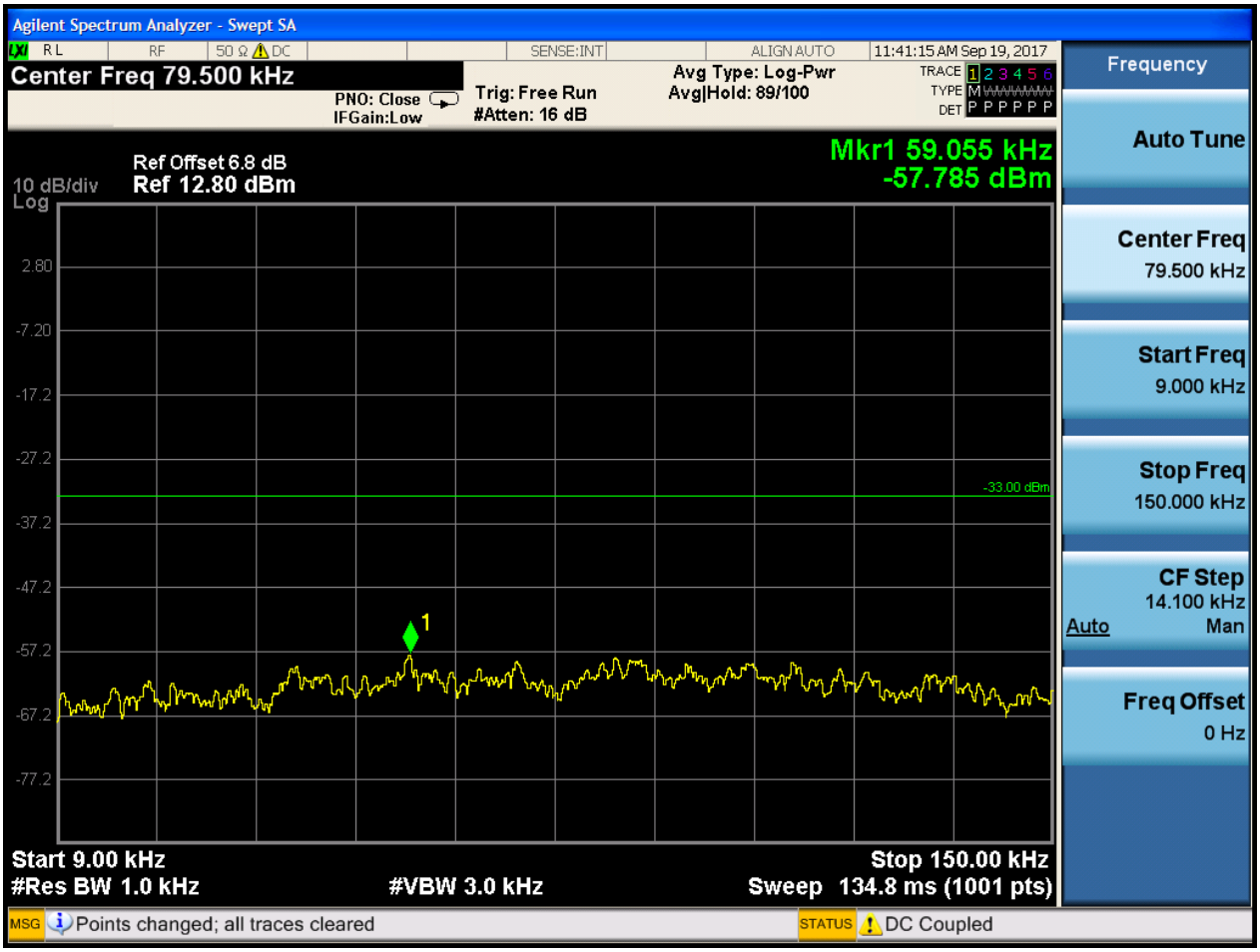
6.1.1.1.1.2 Test Channel = MCH

6.1.1.1.1.2.1 Test RB = RB1#0



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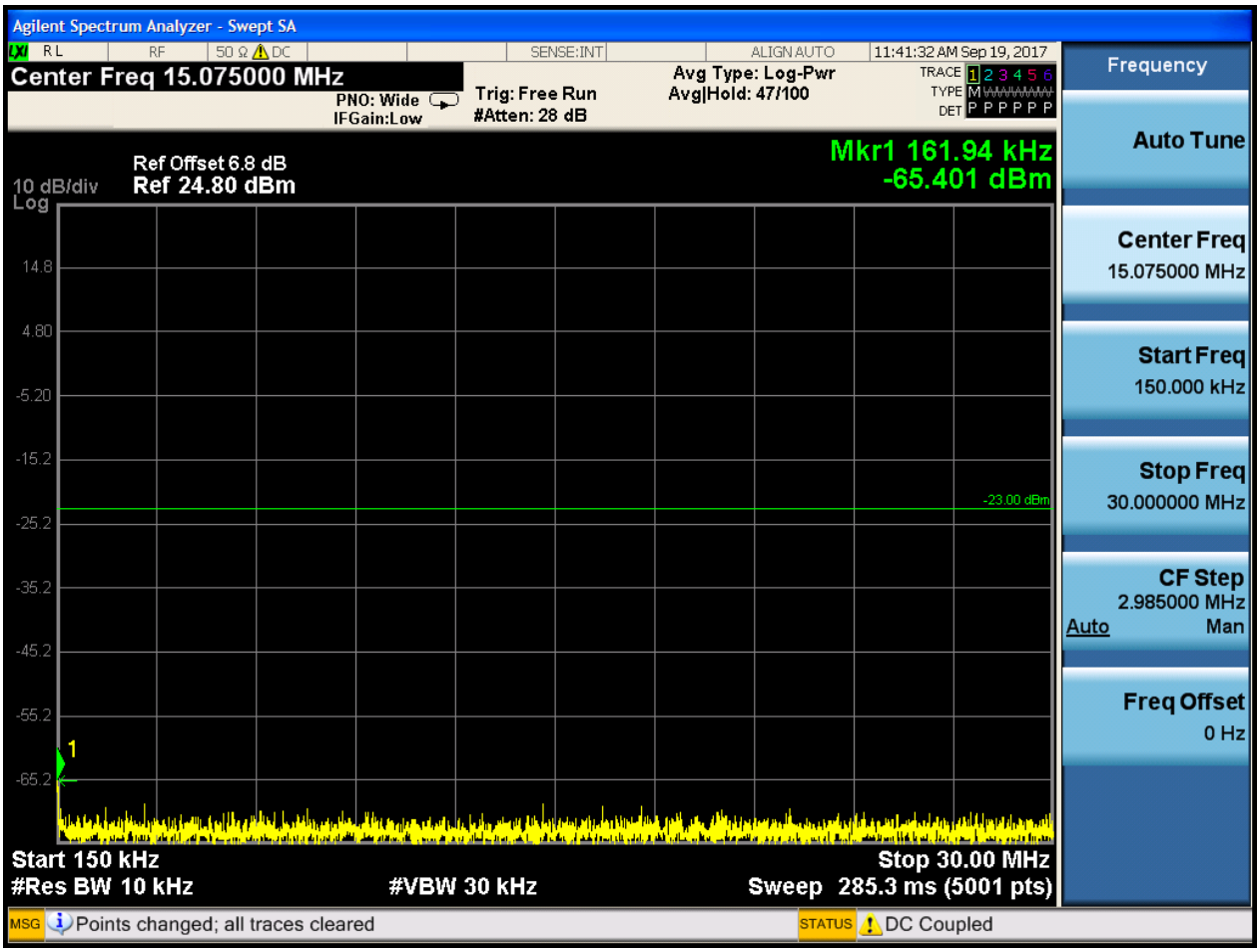

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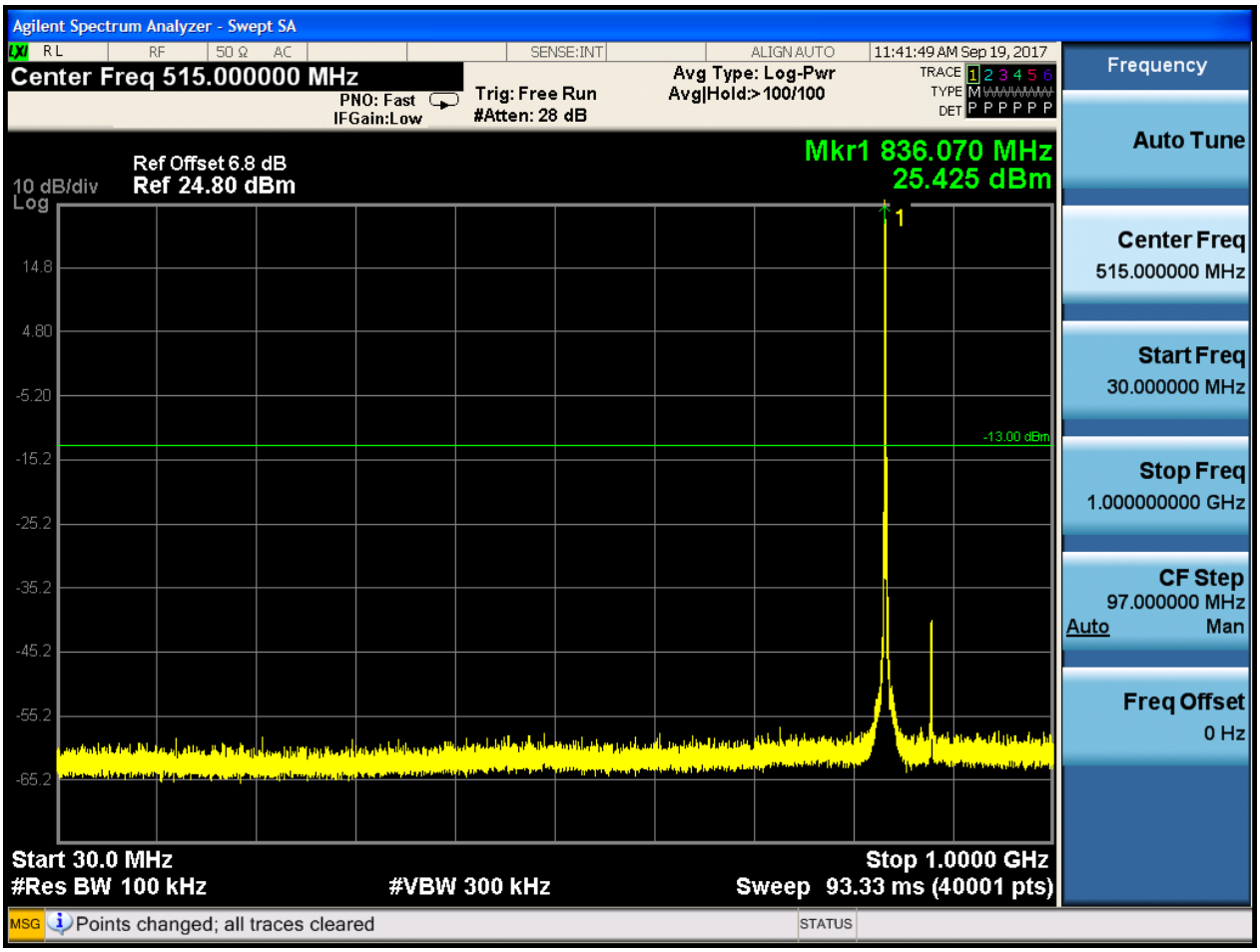

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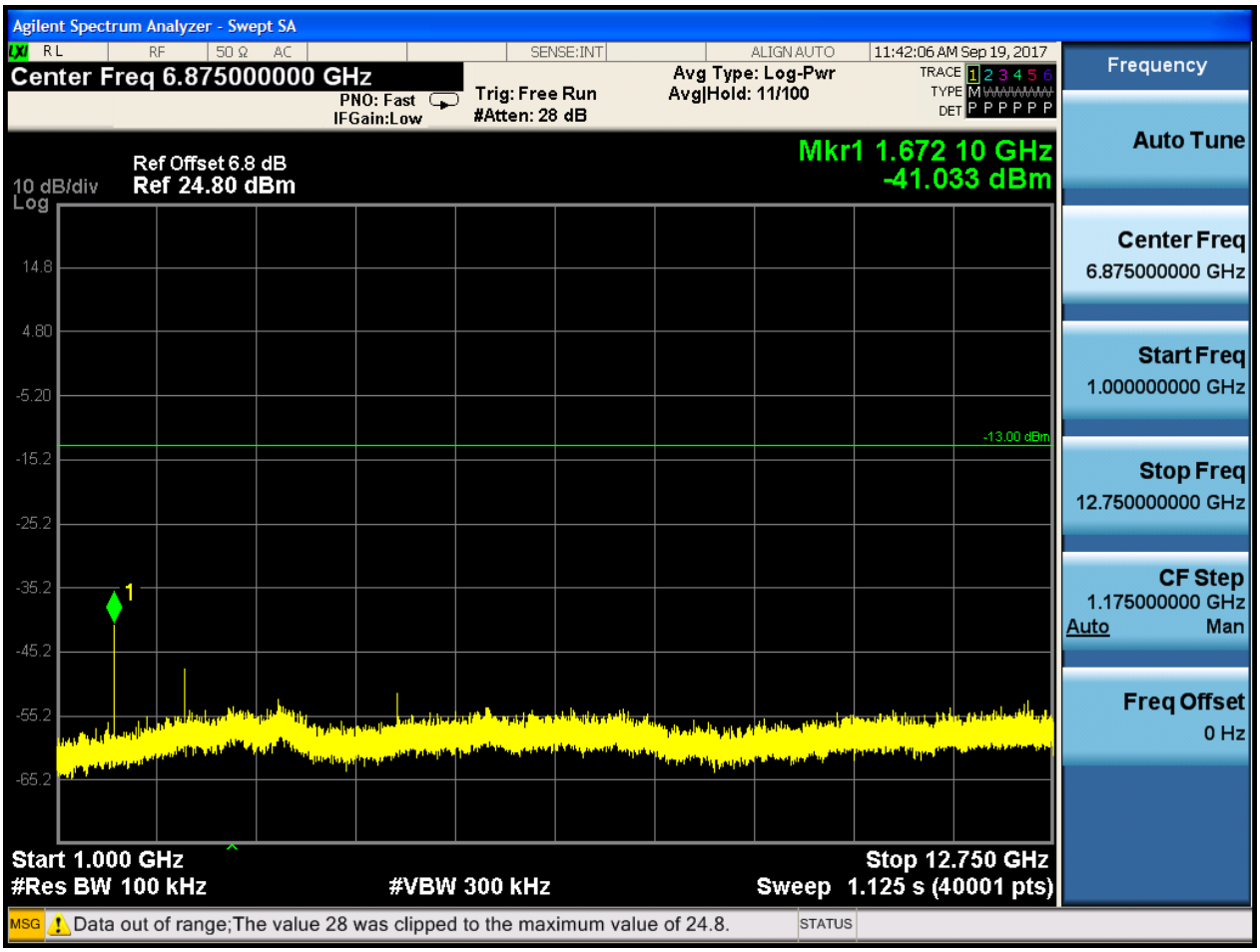

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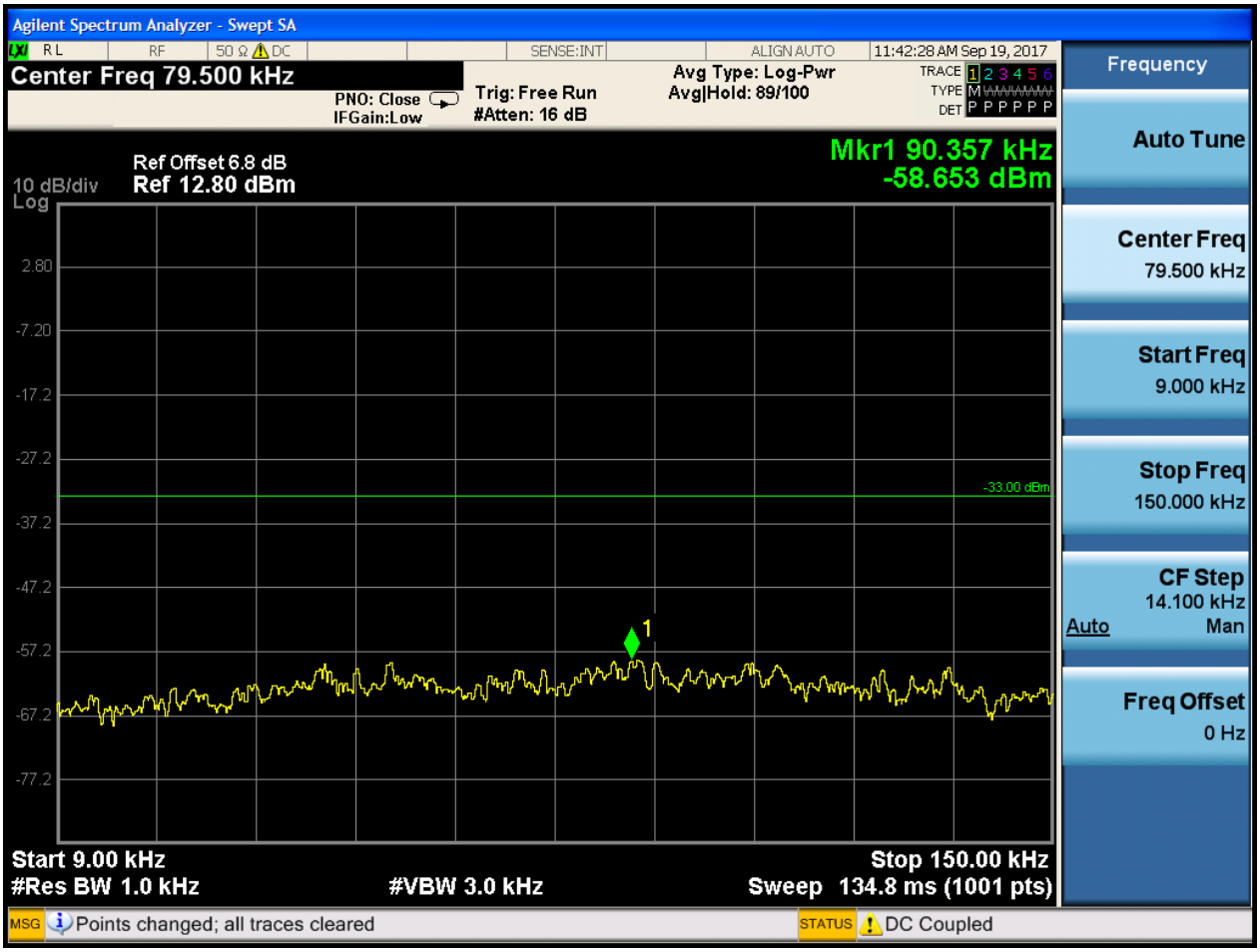
6.1.1.1.1.3 Test Channel = HCH

6.1.1.1.1.3.1 Test RB = RB1#0



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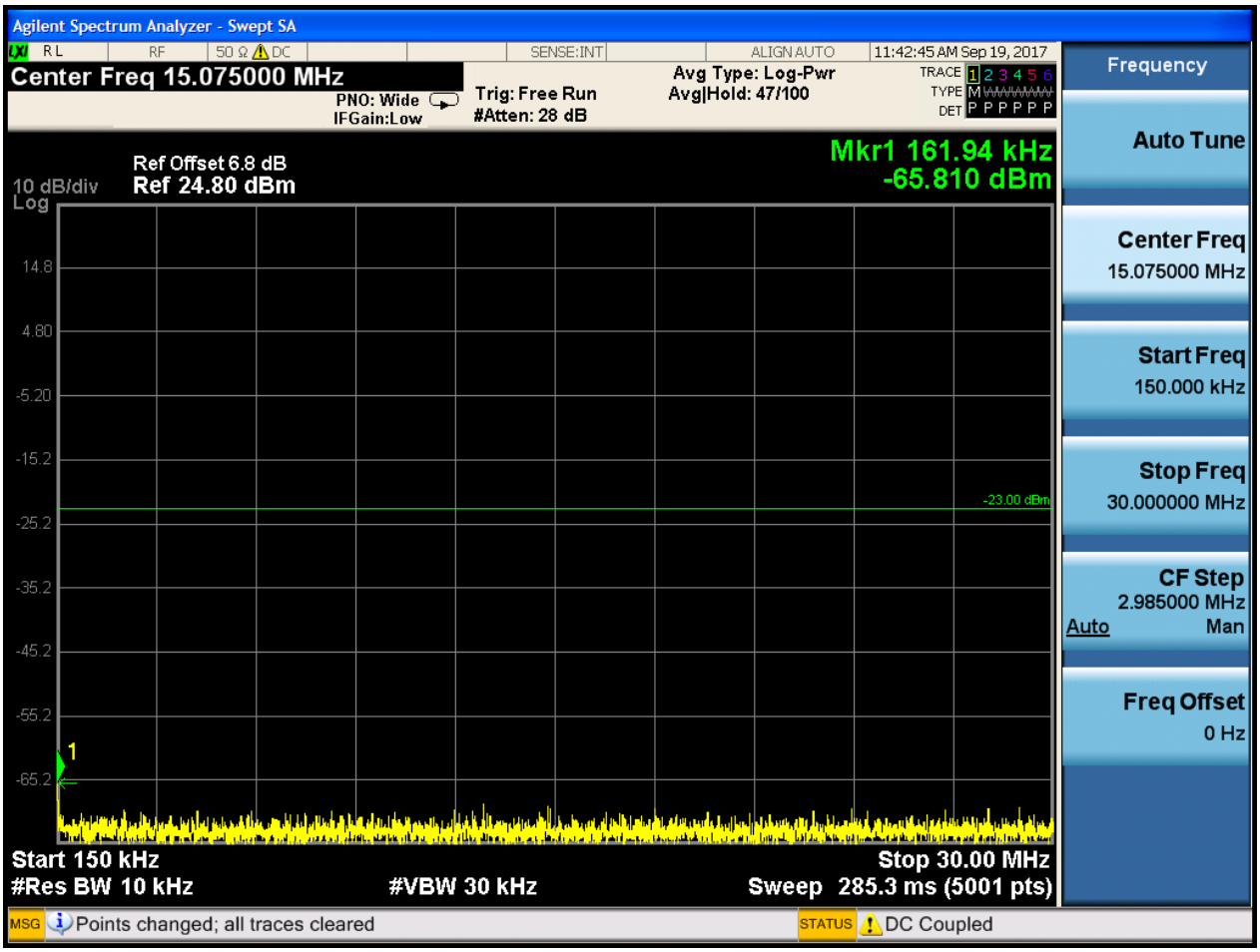

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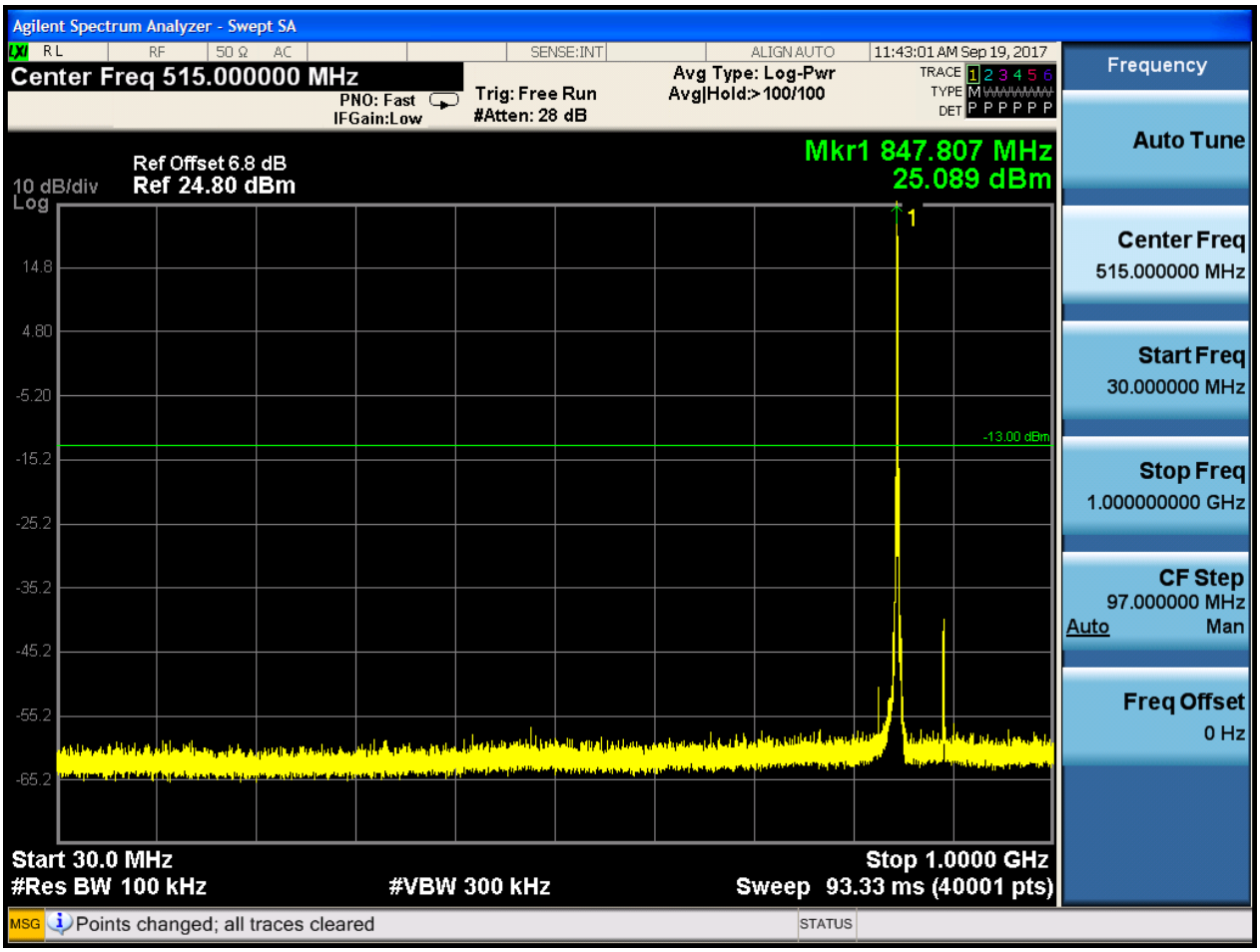

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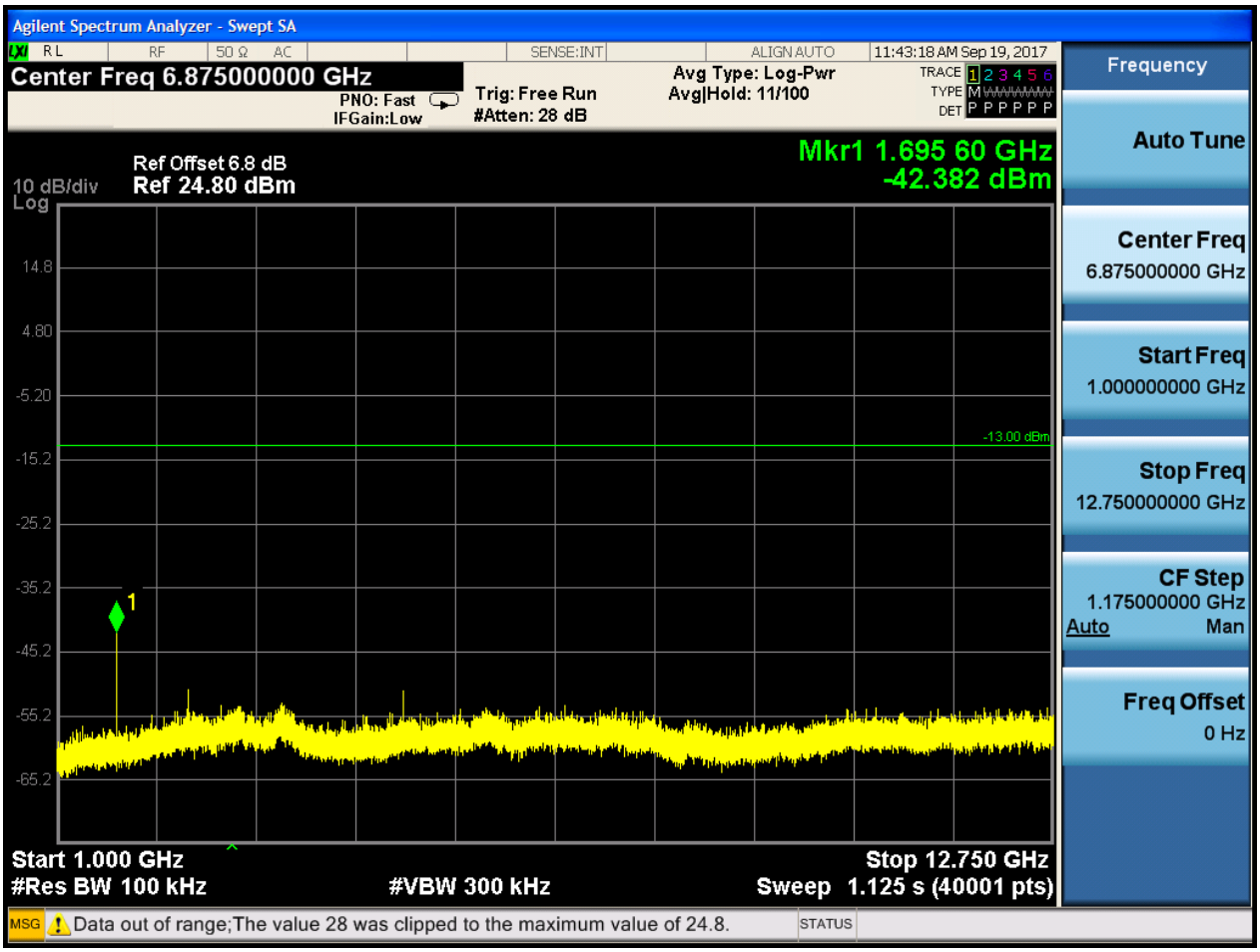

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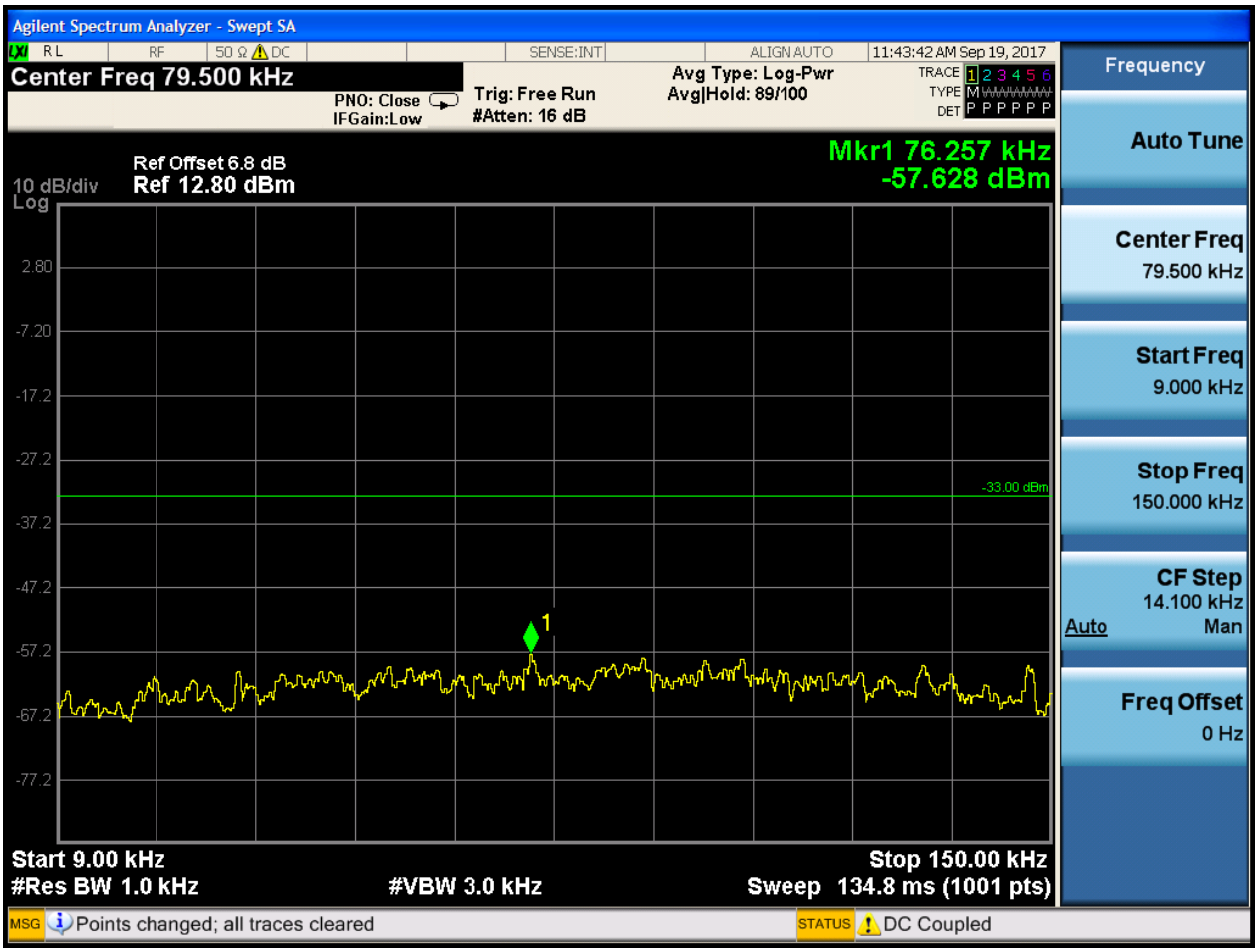
6.1.1.1.2 Test Bandwidth = 3

6.1.1.1.2.1 Test Channel = LCH

6.1.1.1.2.1.1 Test RB = RB1#0



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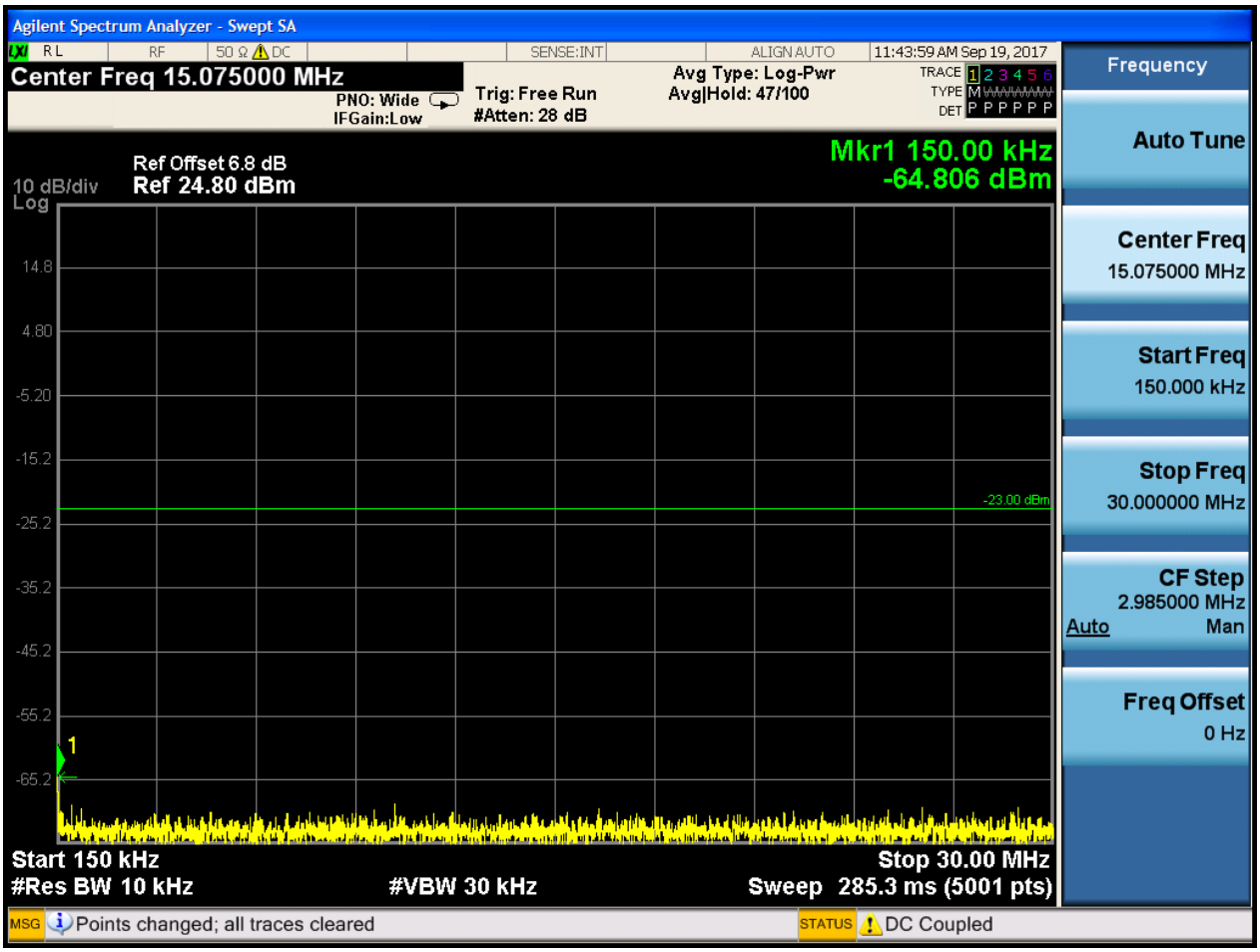

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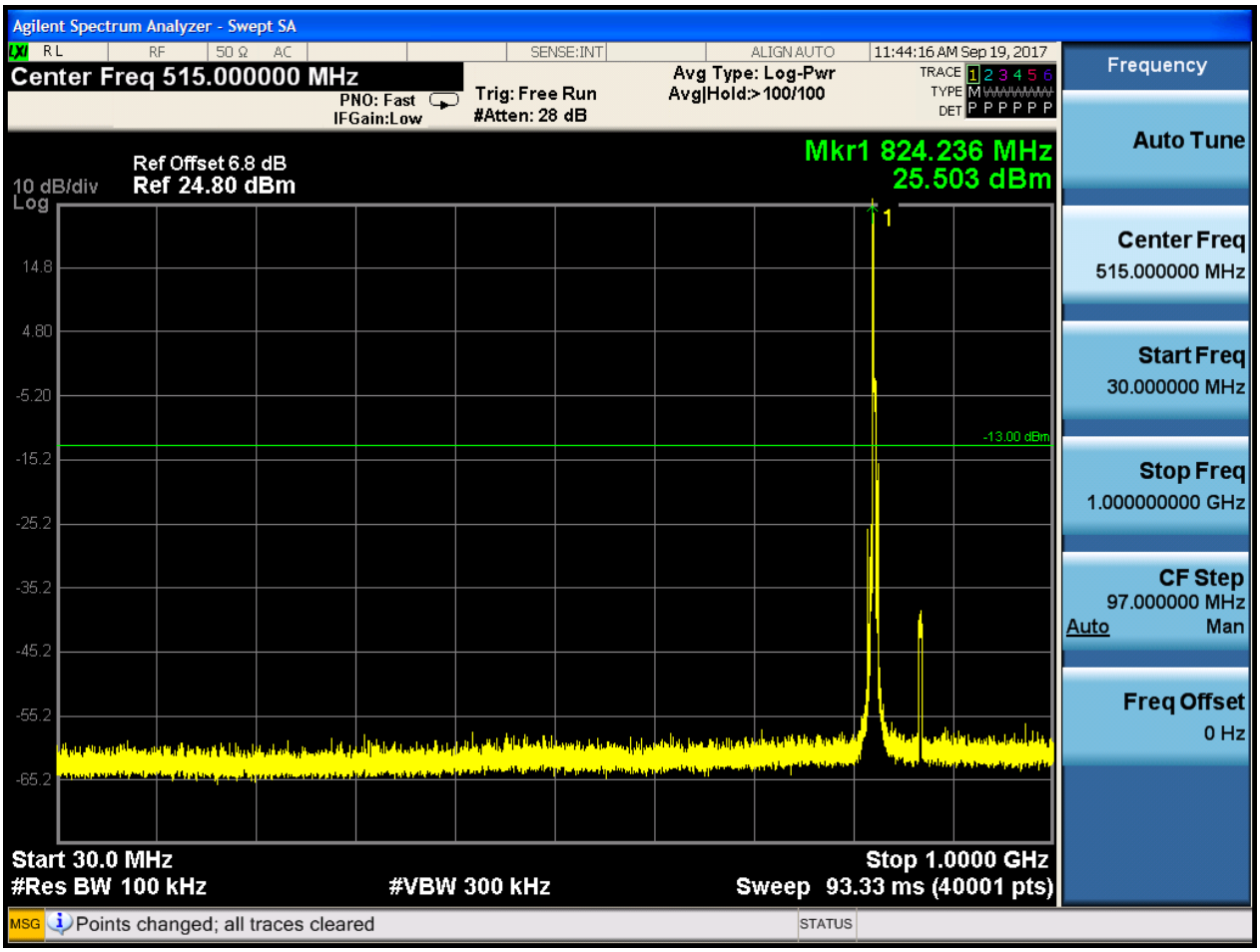

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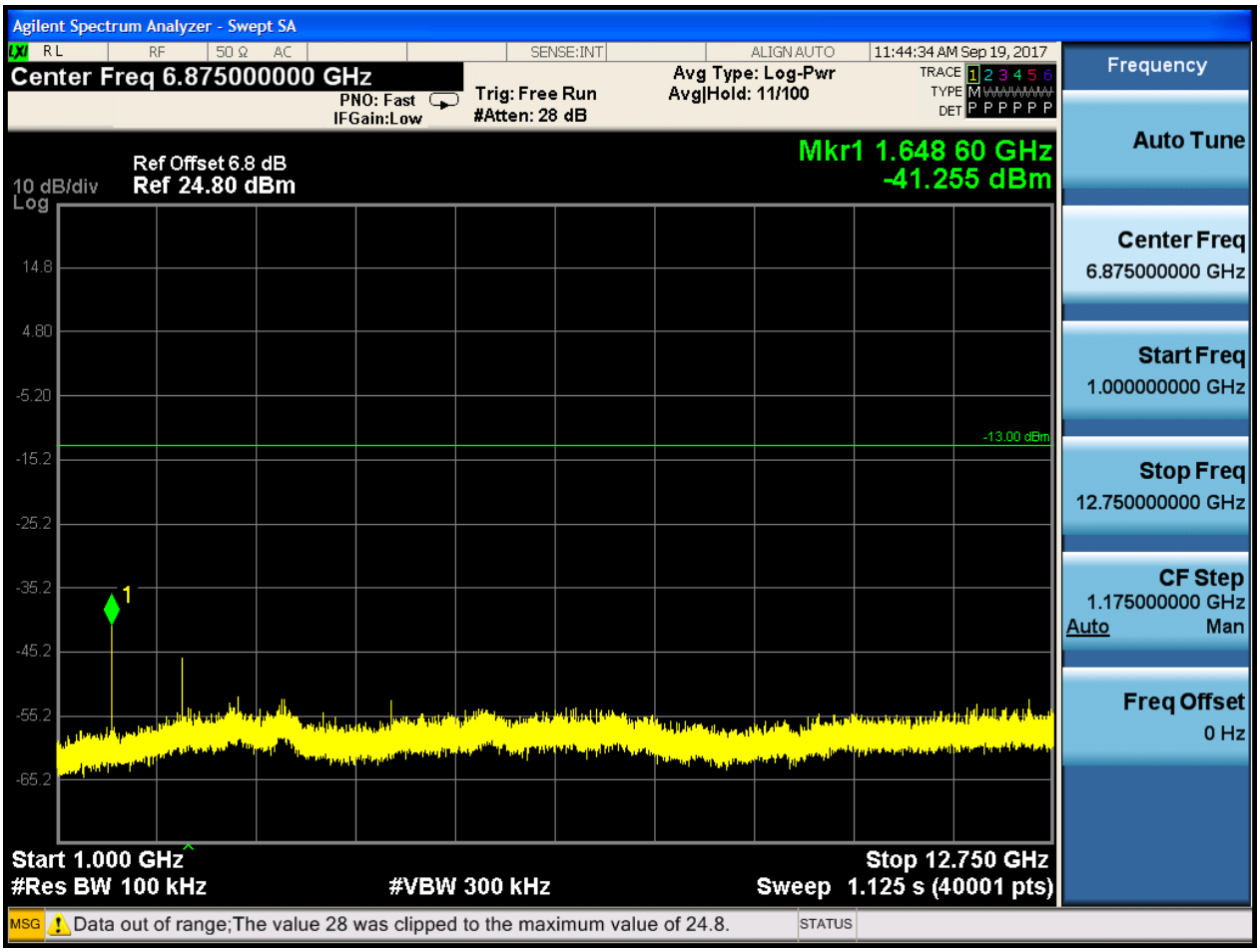

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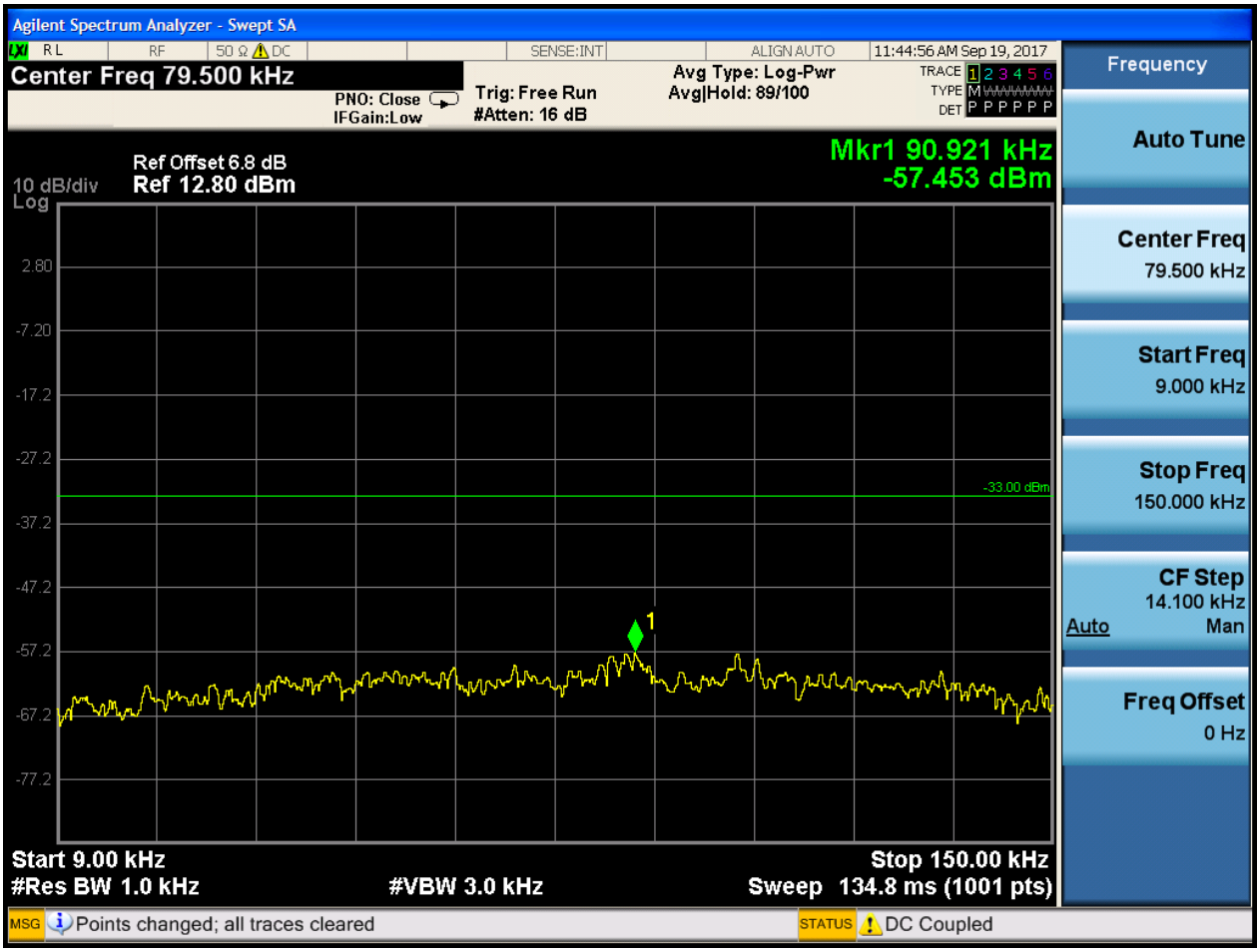
6.1.1.1.2.2 Test Channel = MCH

6.1.1.1.2.2.1 Test RB = RB1#0



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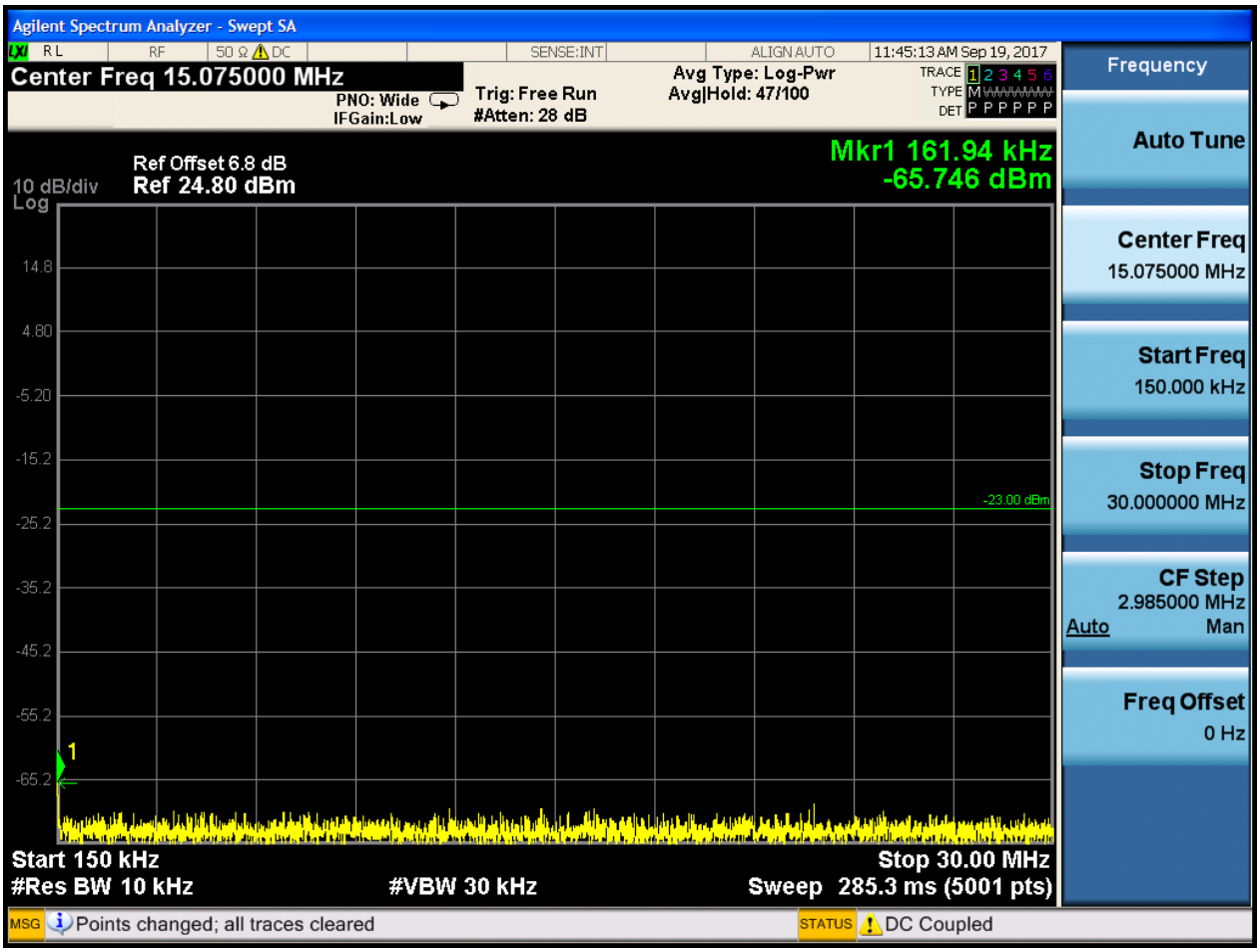

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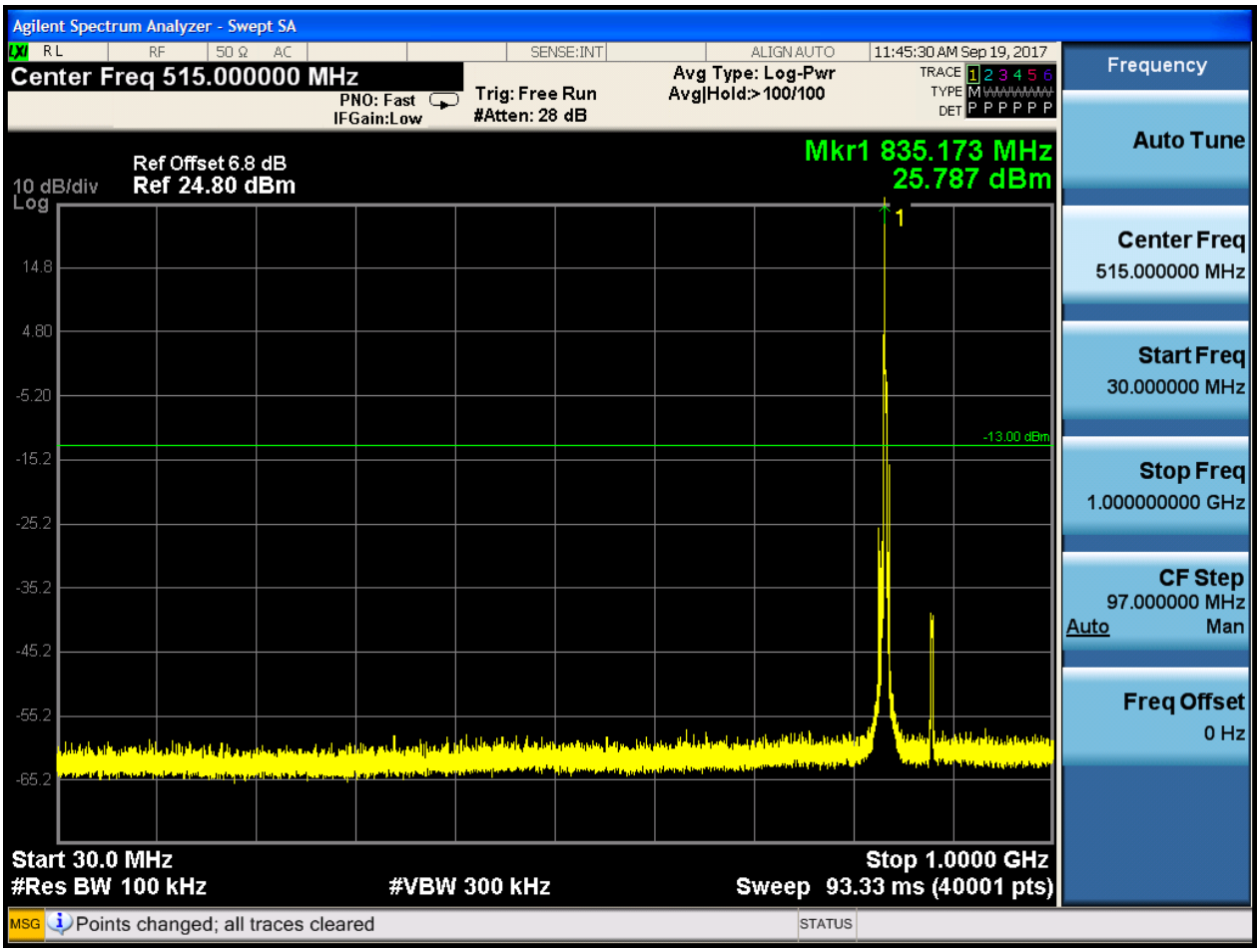

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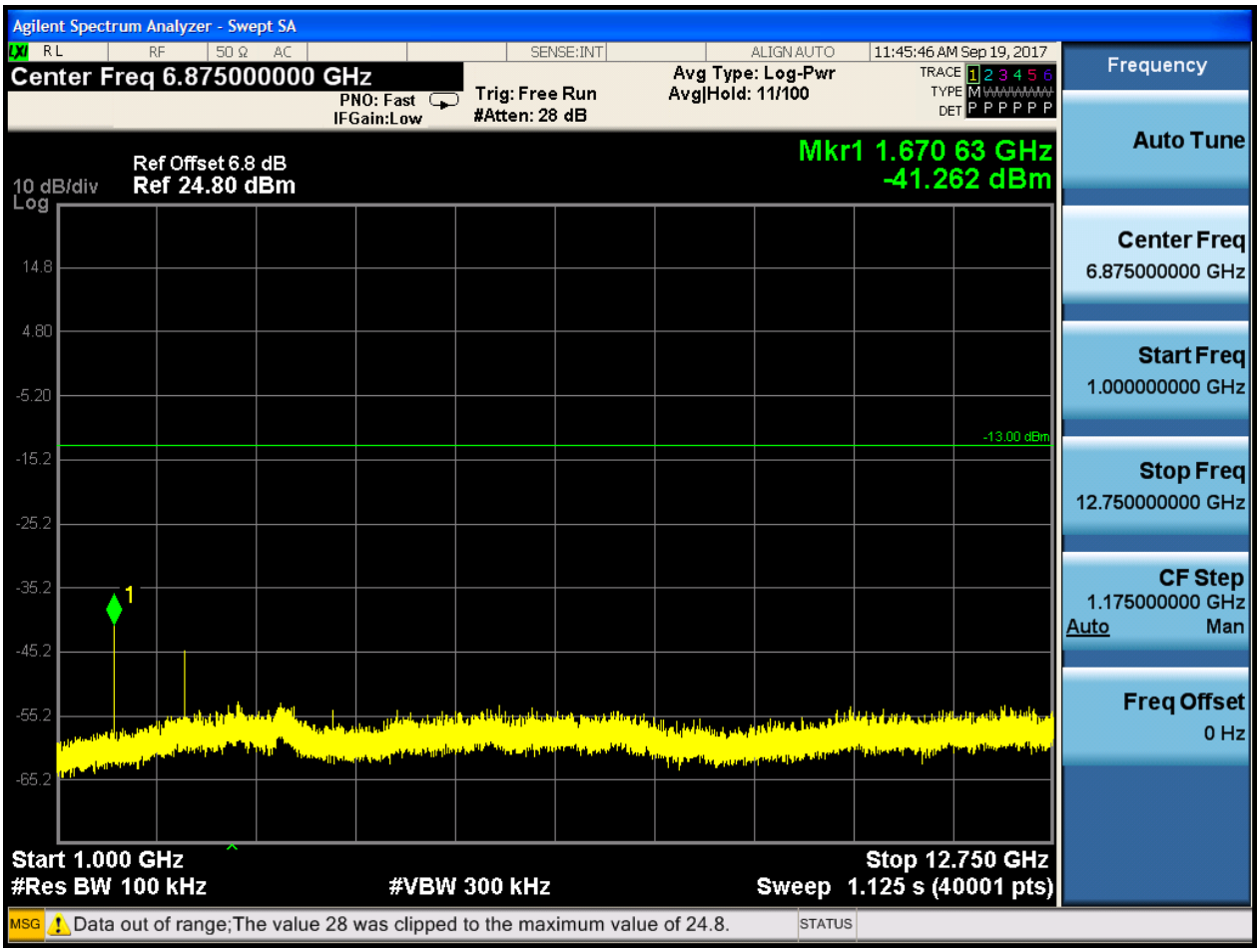

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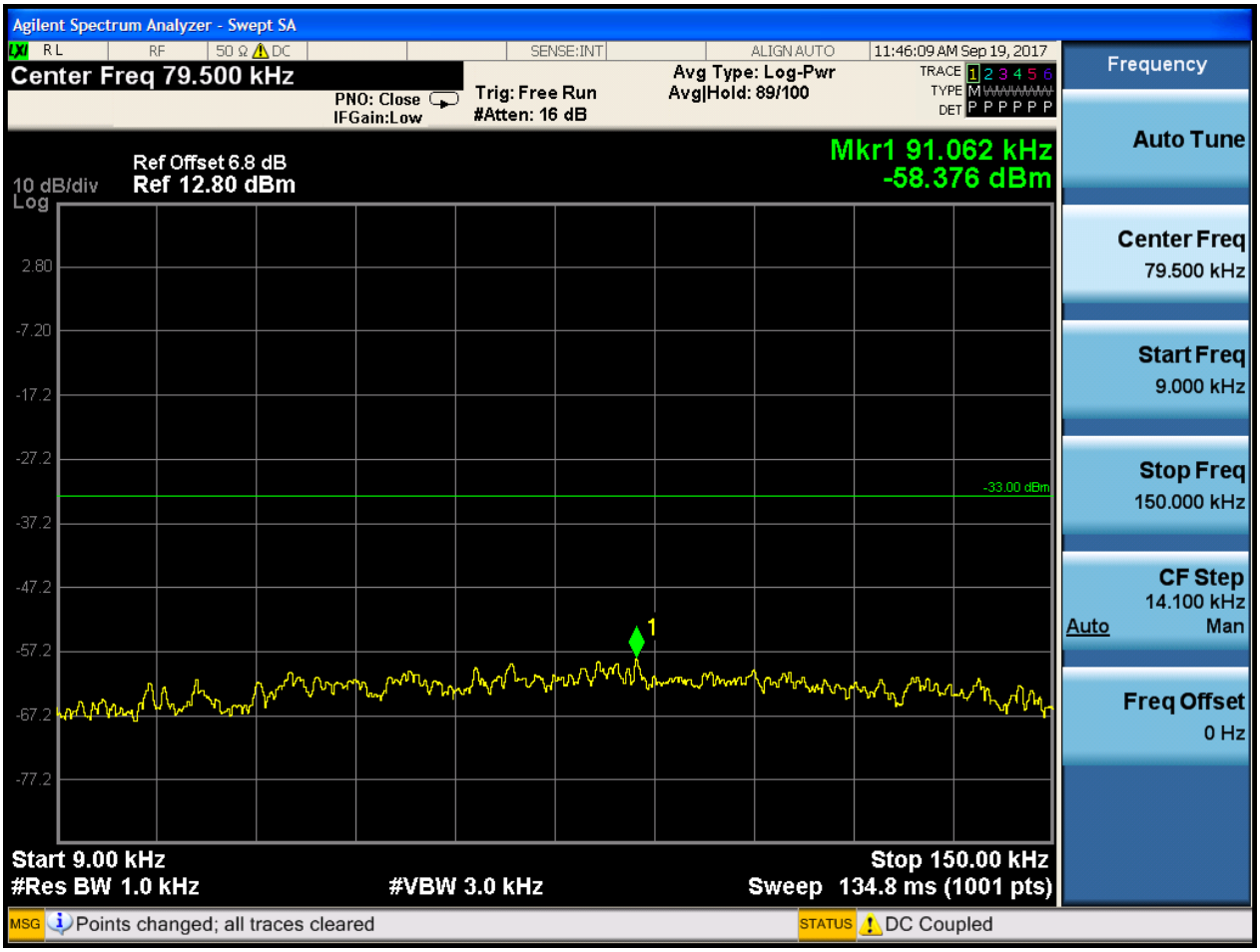
6.1.1.1.2.3 Test Channel = HCH

6.1.1.1.2.3.1 Test RB = RB1#0



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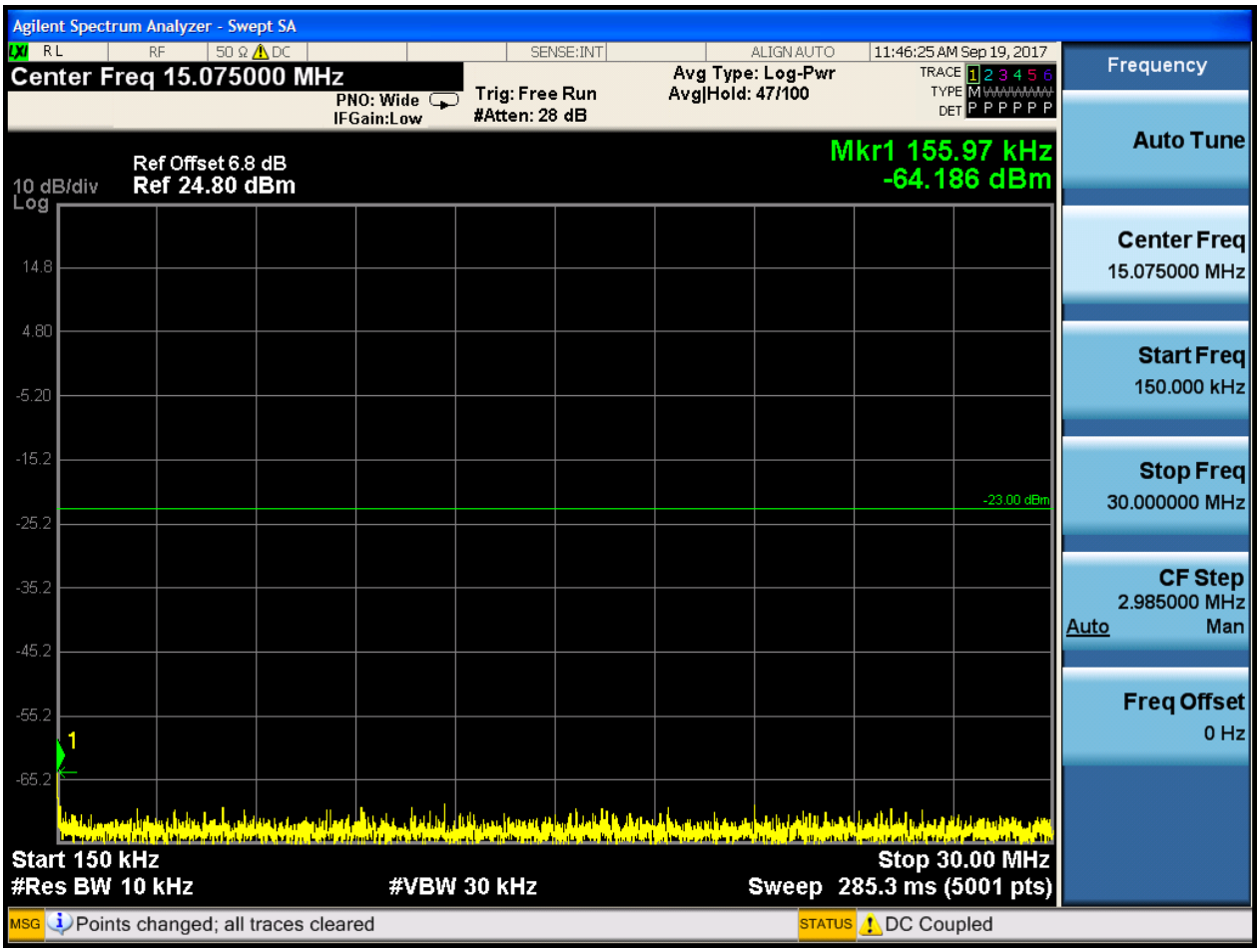

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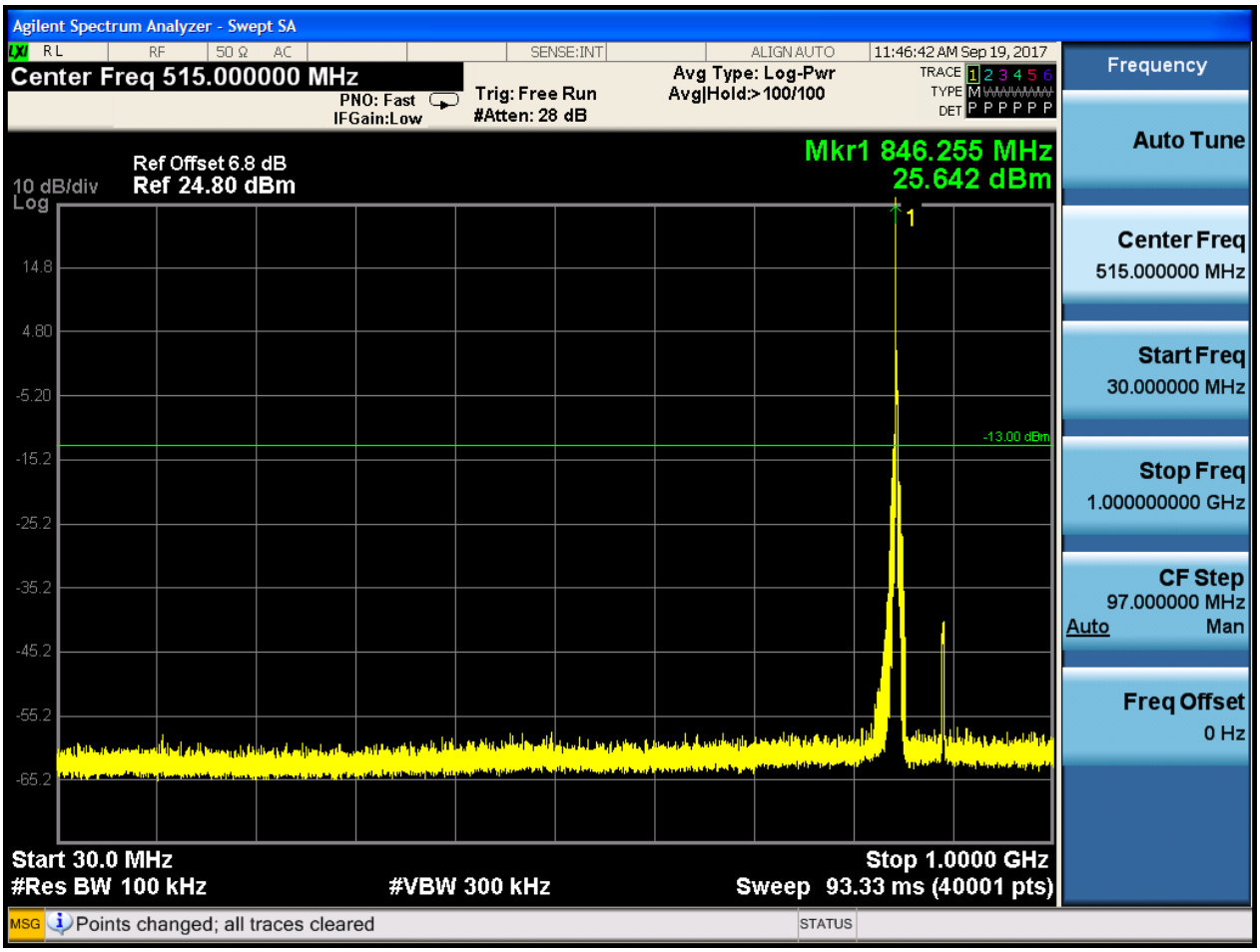

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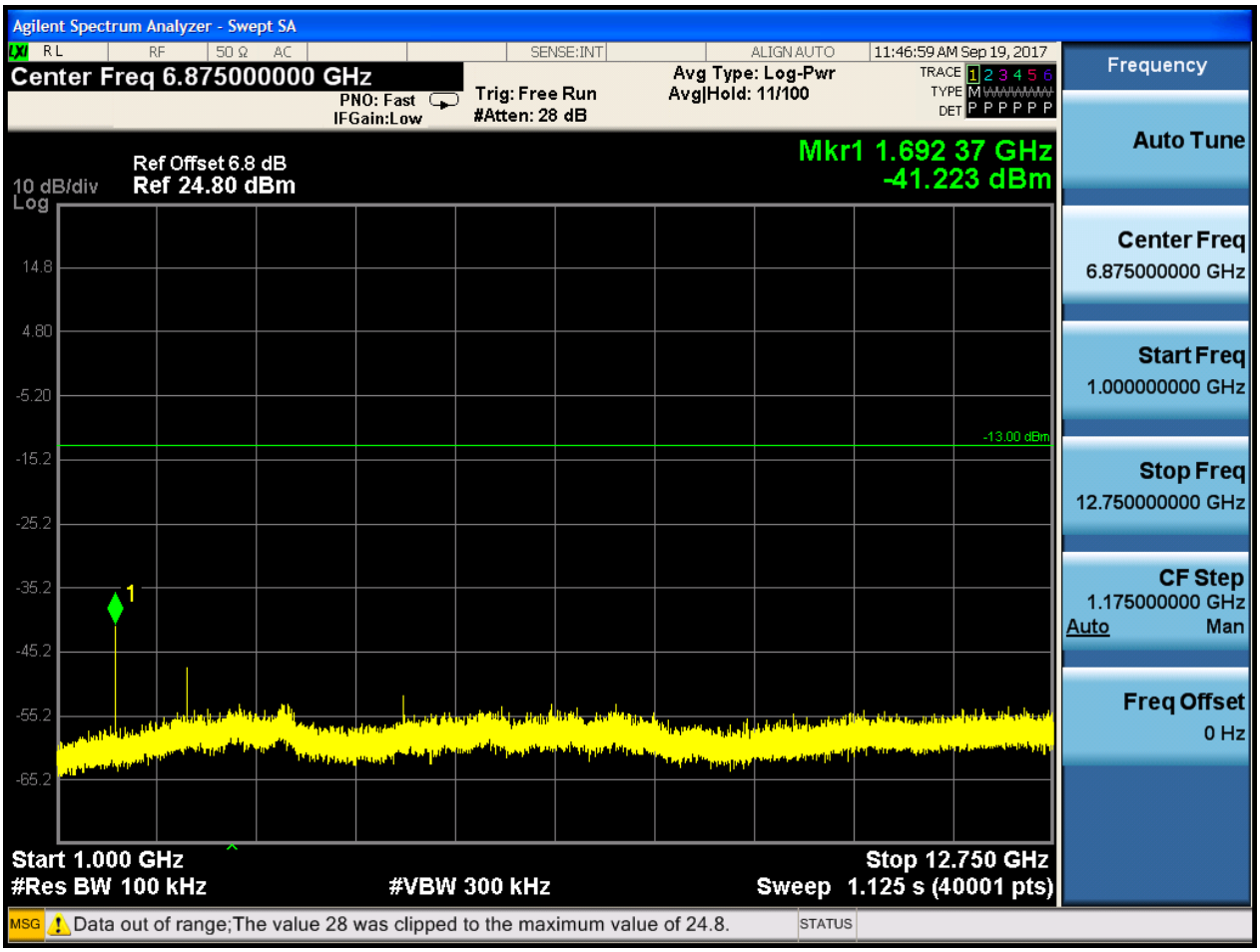

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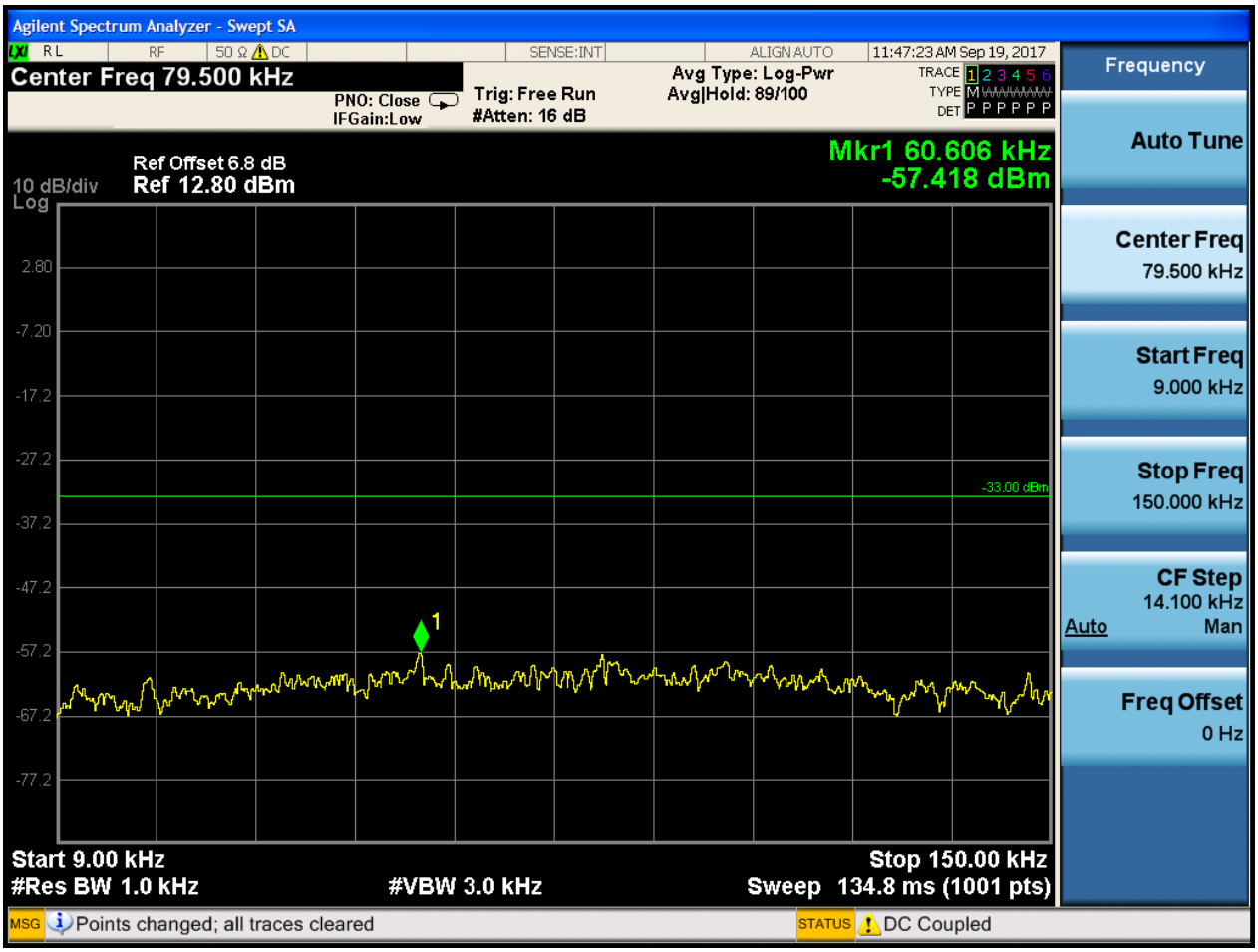
6.1.1.1.3 Test Bandwidth = 5

6.1.1.1.3.1 Test Channel = LCH

6.1.1.1.3.1.1 Test RB = RB1#0



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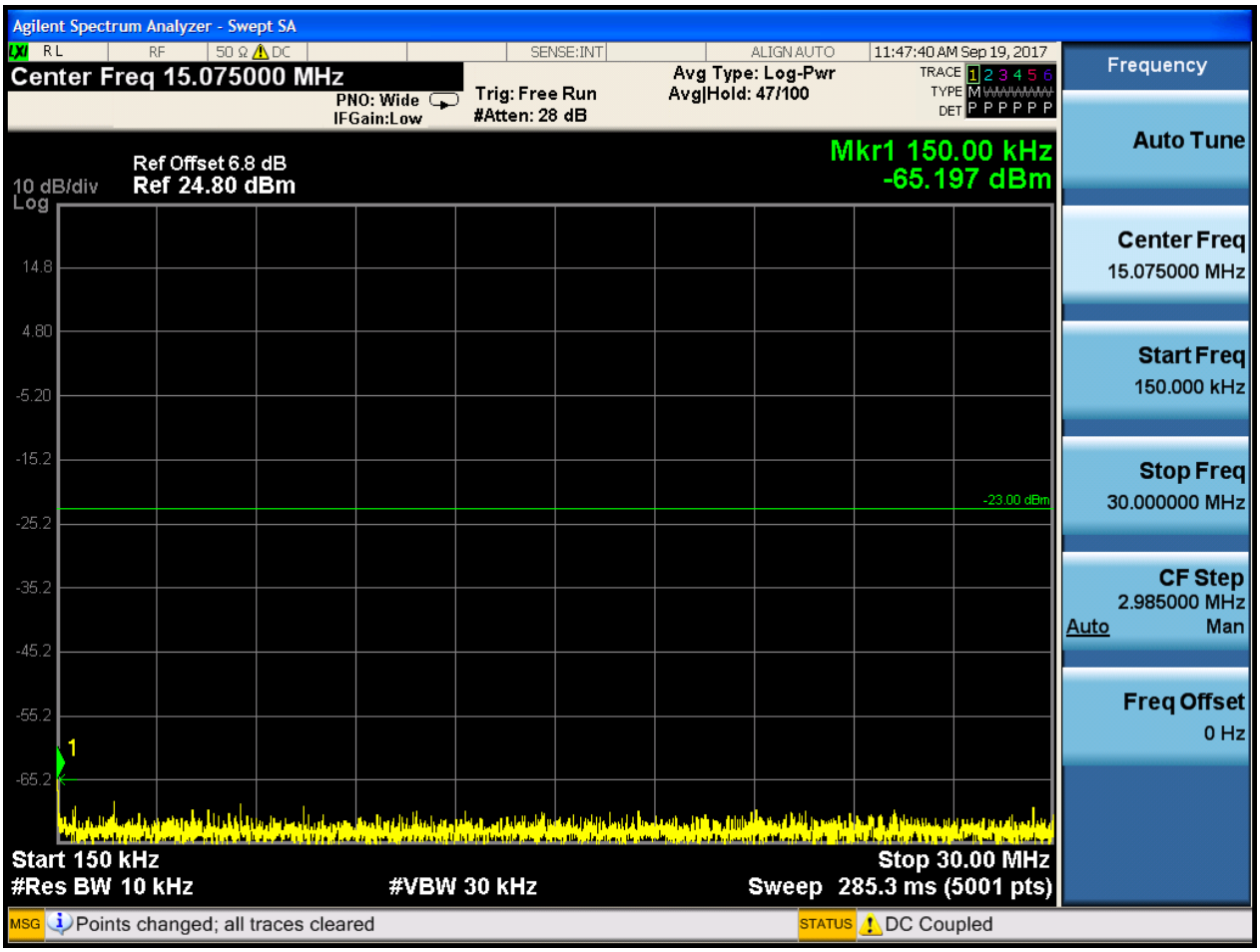

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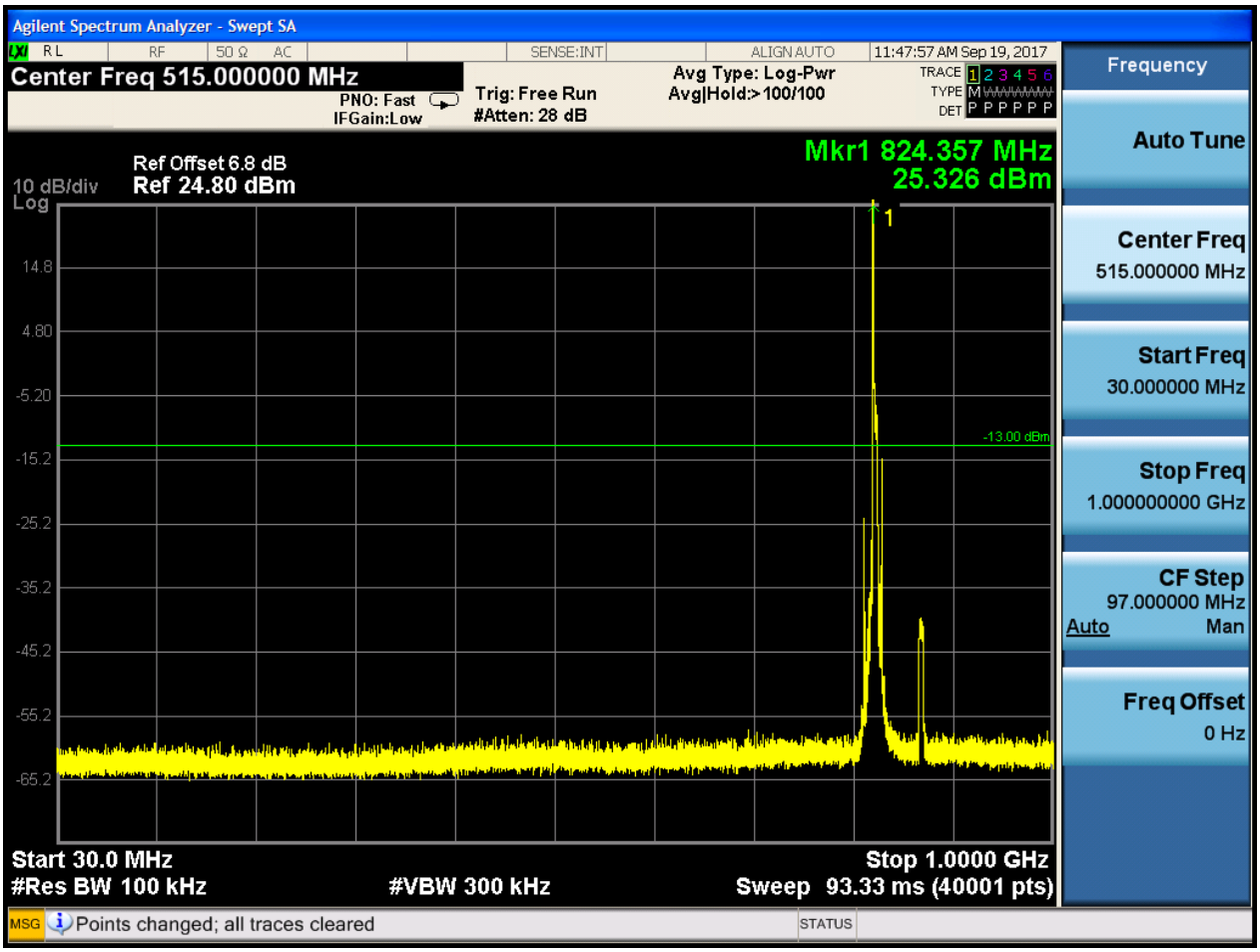

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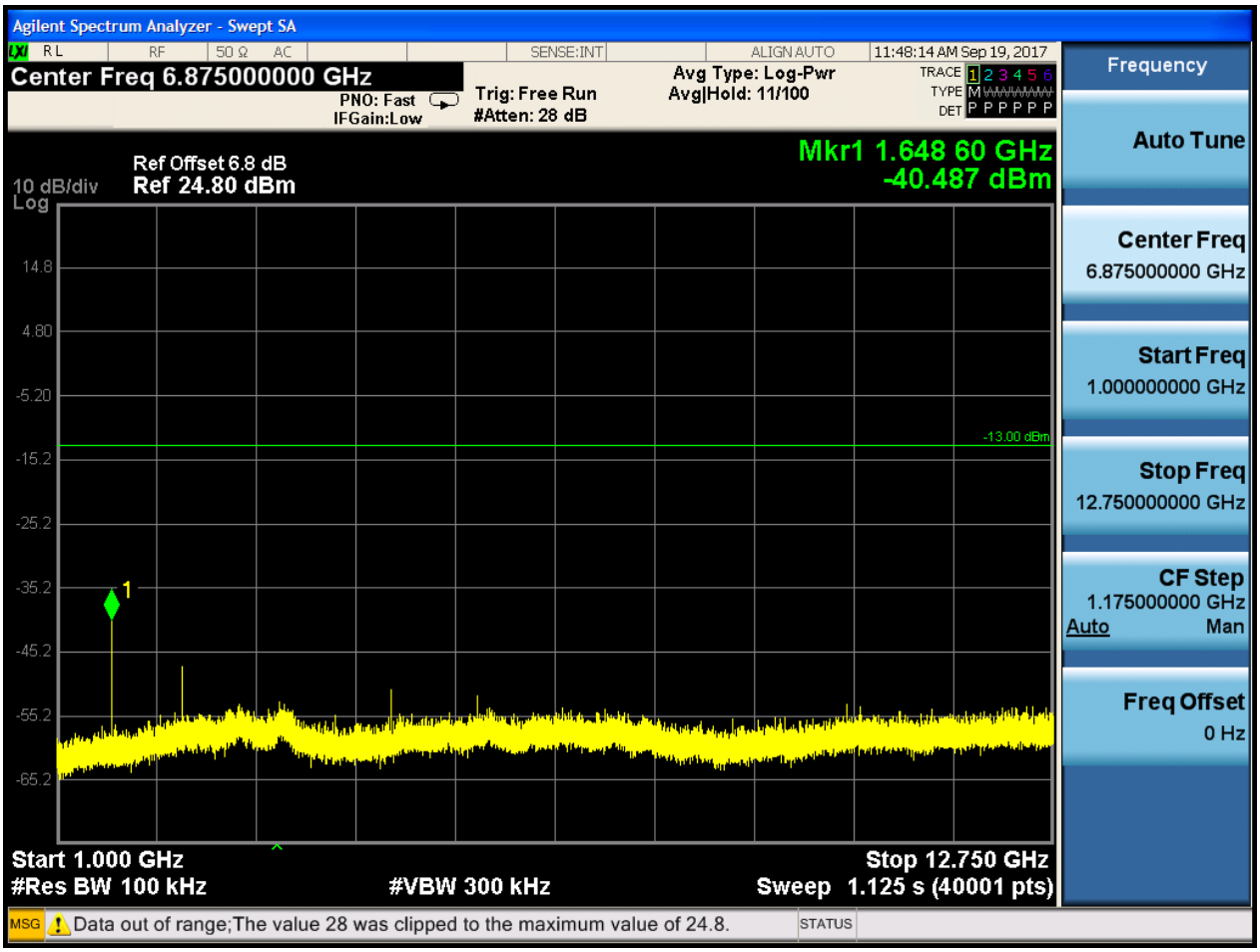

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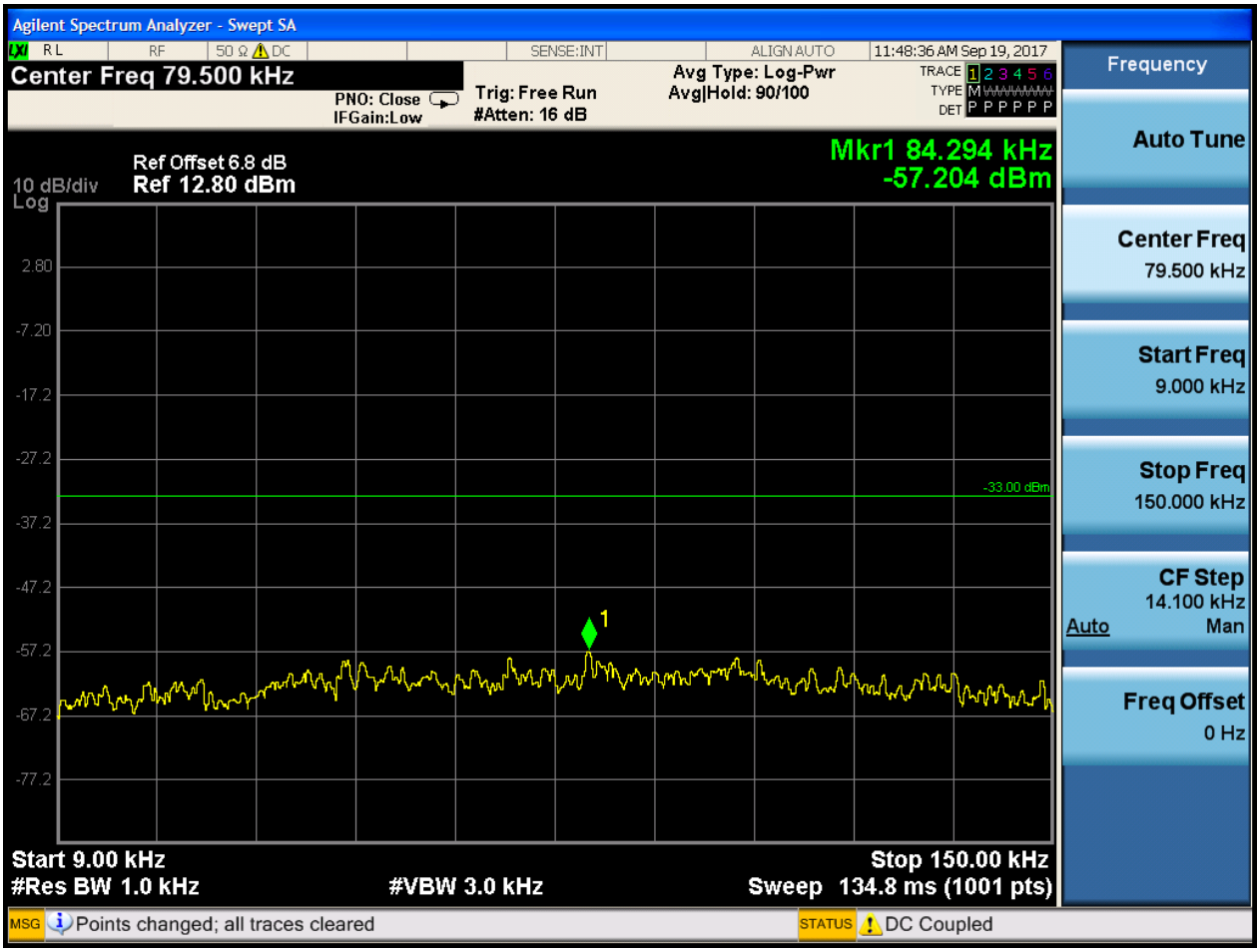
6.1.1.1.3.2 Test Channel = MCH

6.1.1.1.3.2.1 Test RB = RB1#0



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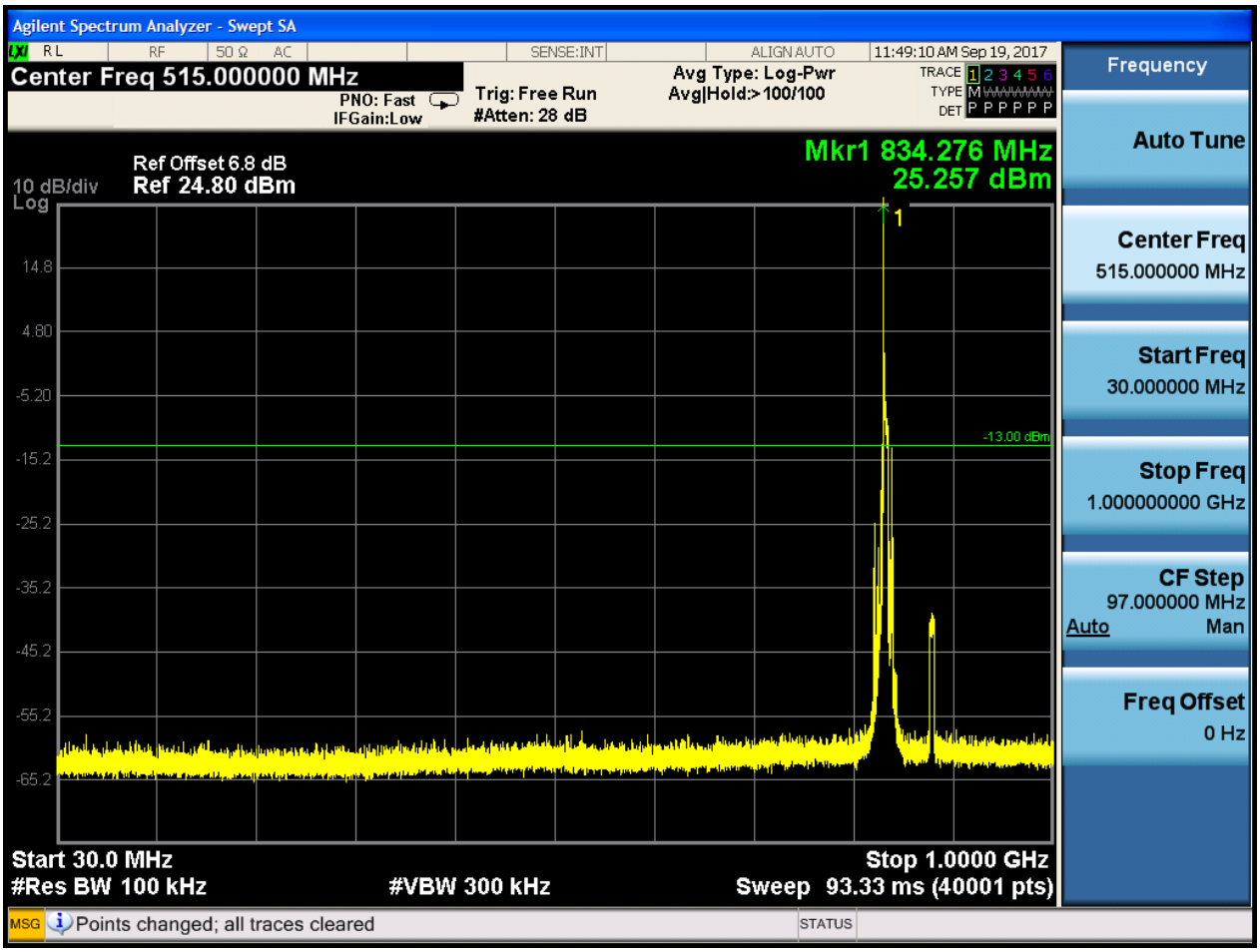

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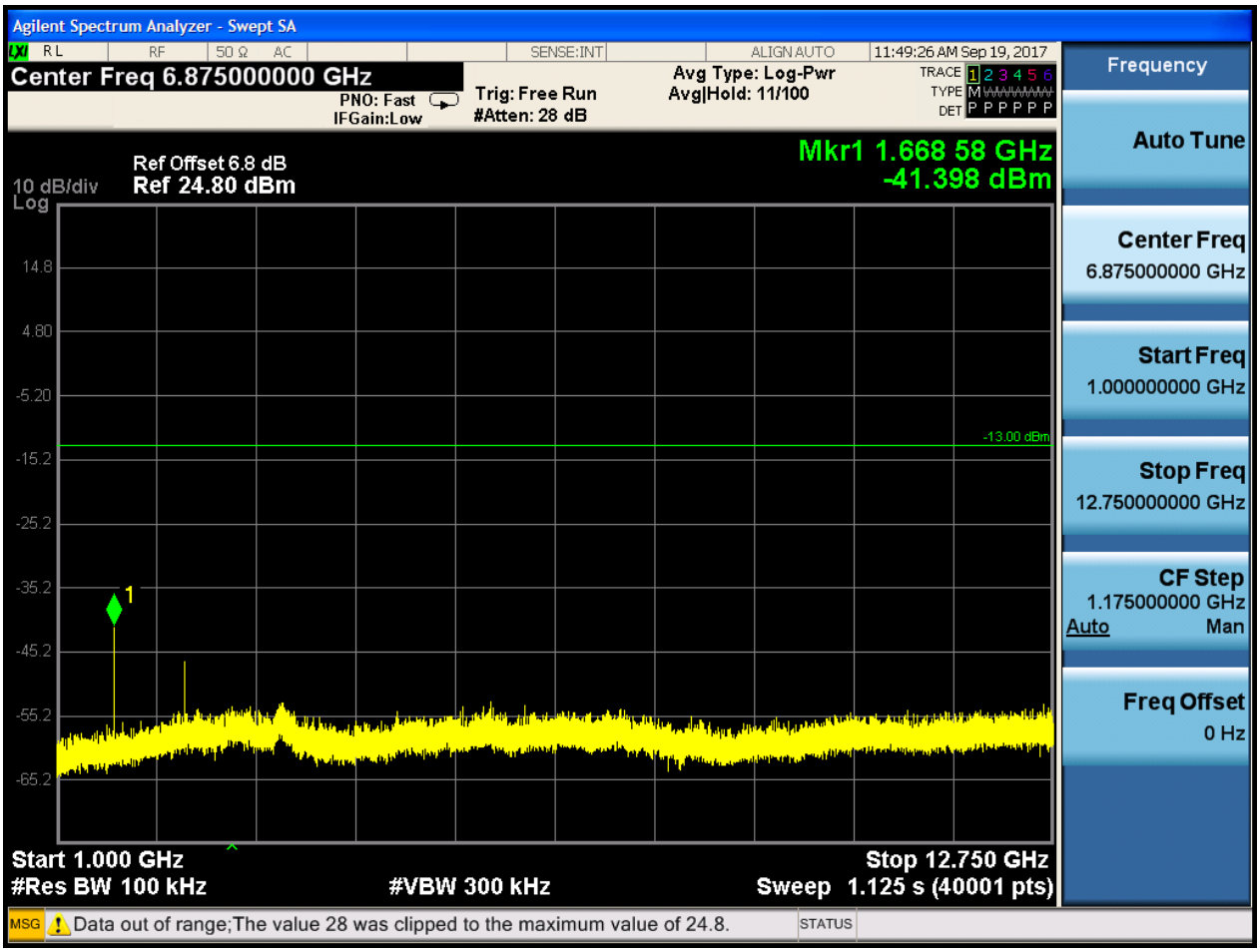

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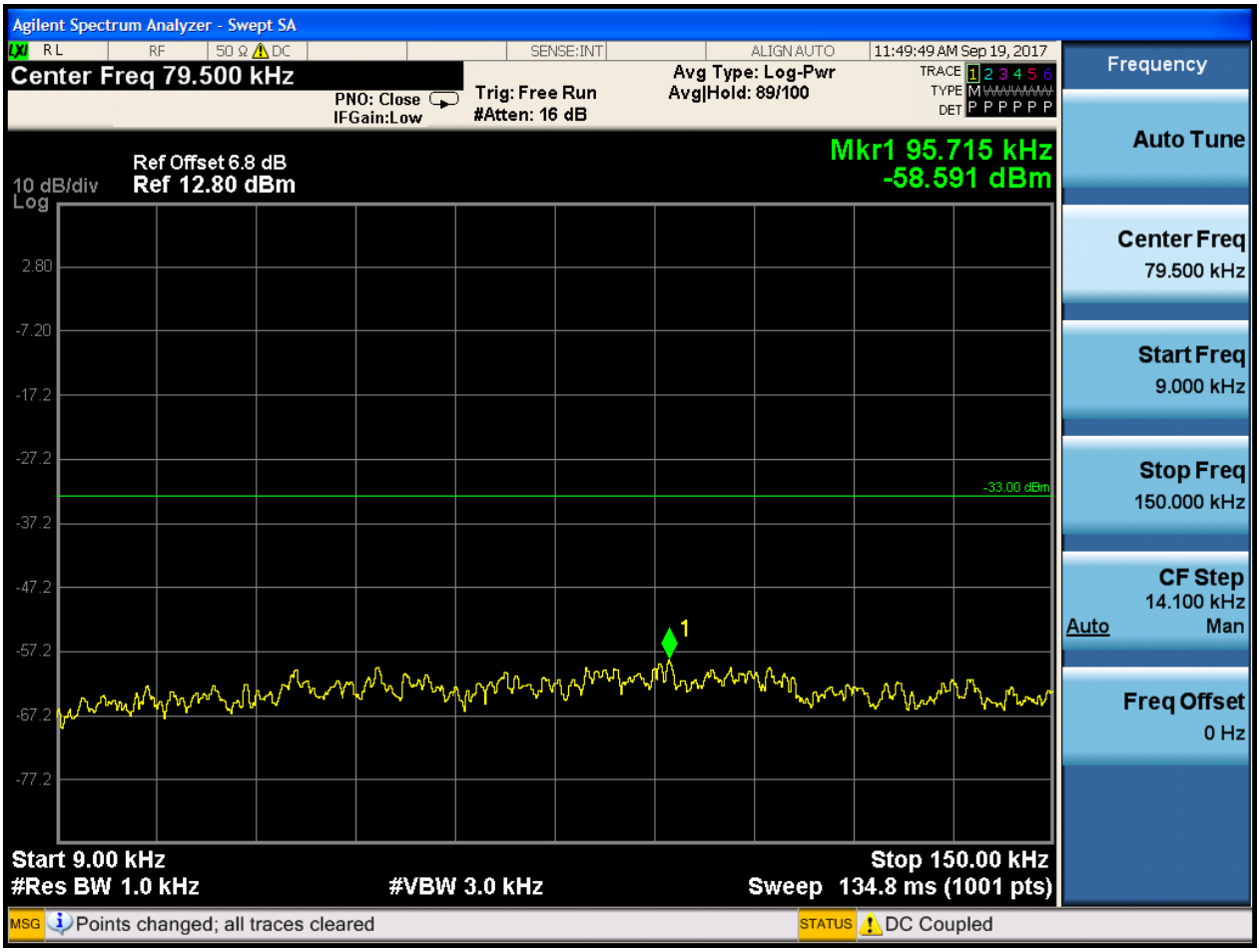
6.1.1.1.3.3 Test Channel = HCH

6.1.1.1.3.3.1 Test RB = RB1#0



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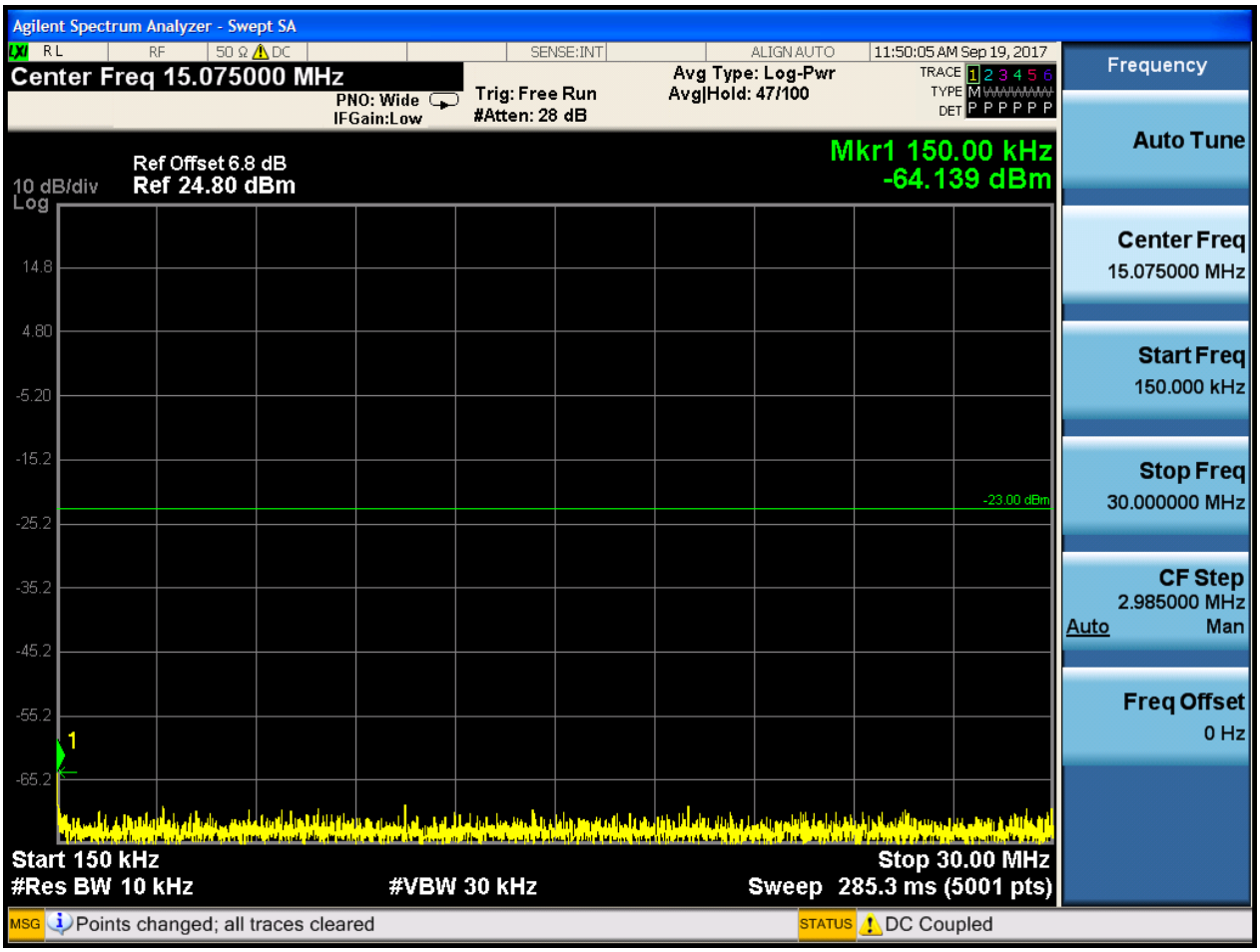

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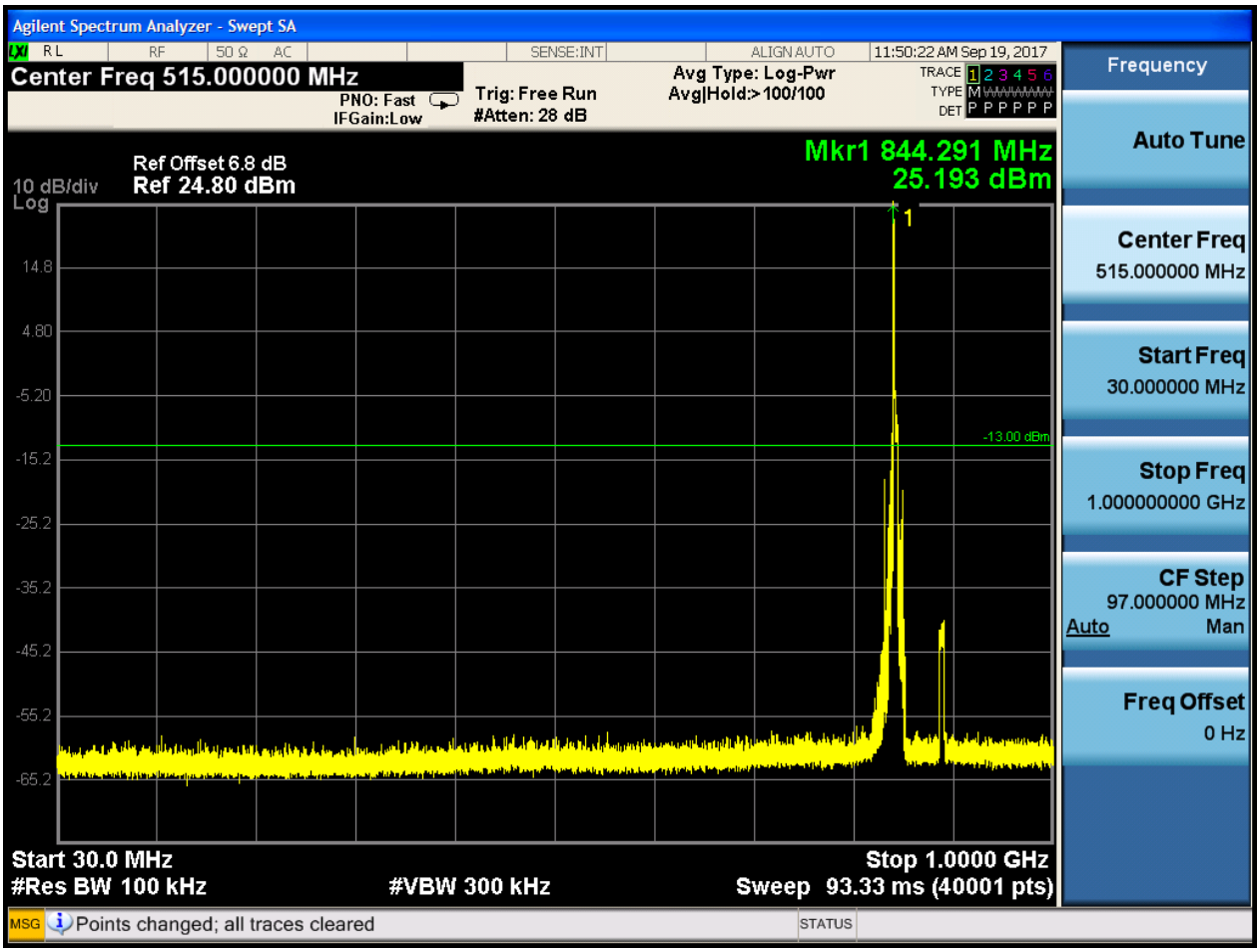

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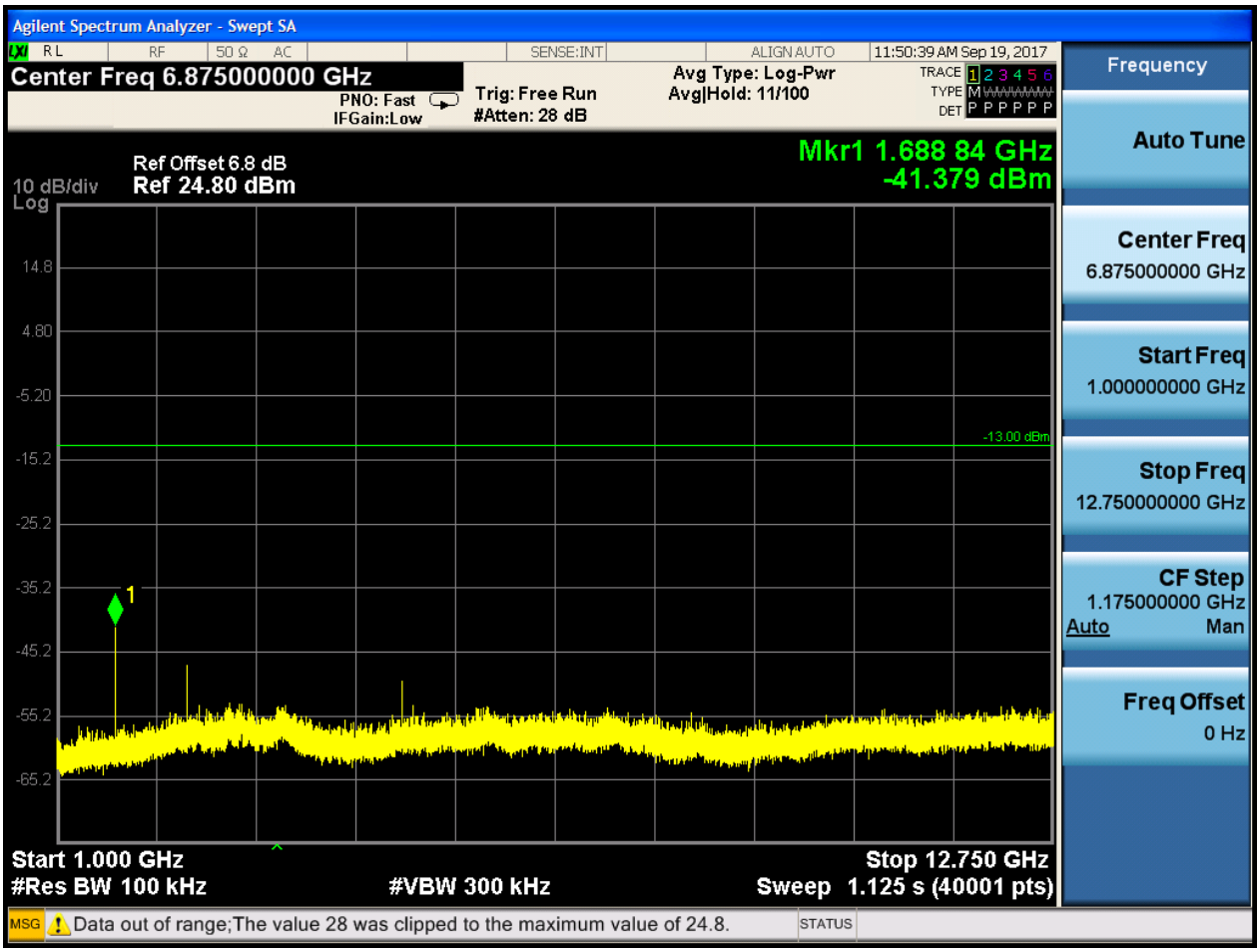

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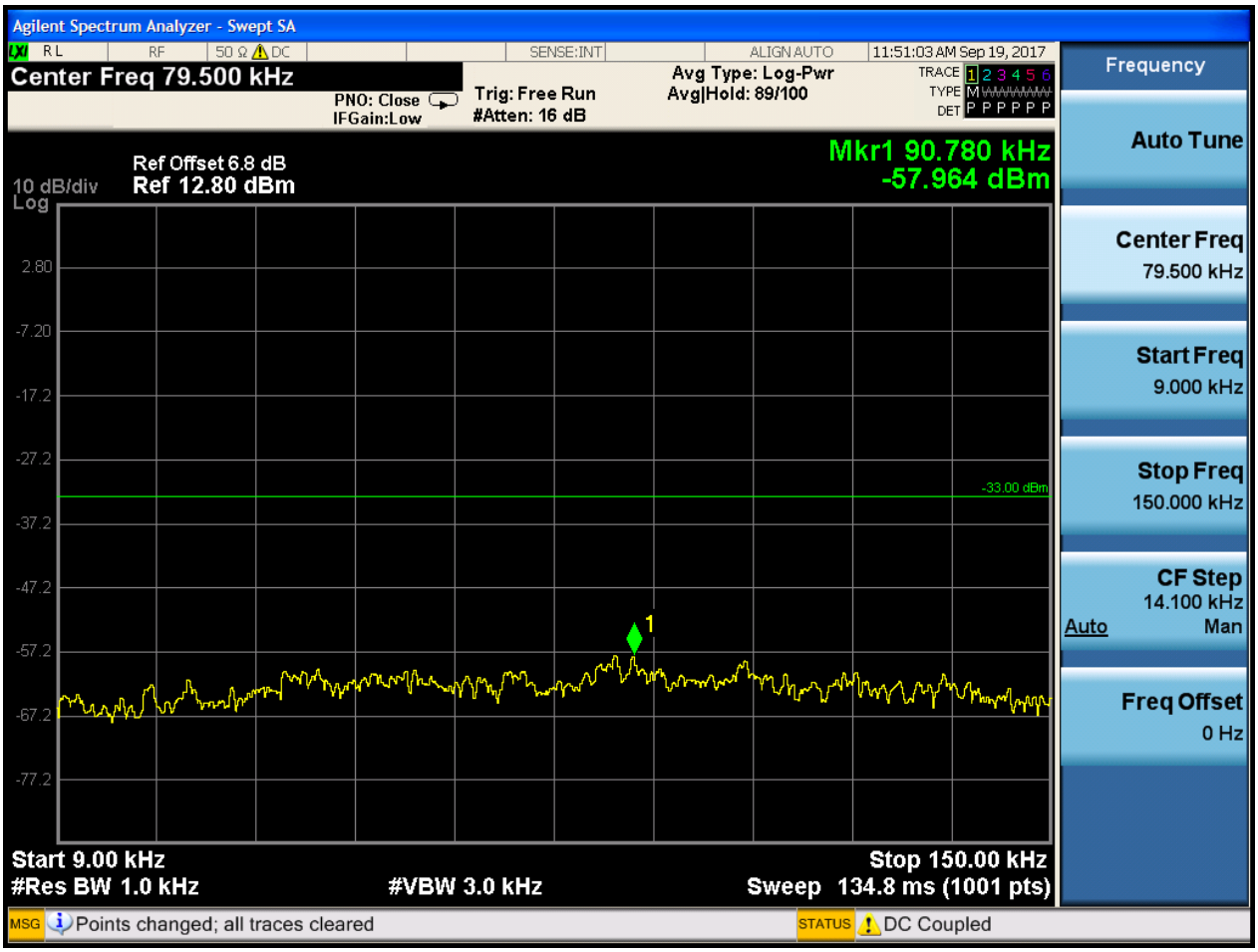
6.1.1.1.4 Test Bandwidth = 10

6.1.1.1.4.1 Test Channel = LCH

6.1.1.1.4.1.1 Test RB = RB1#0



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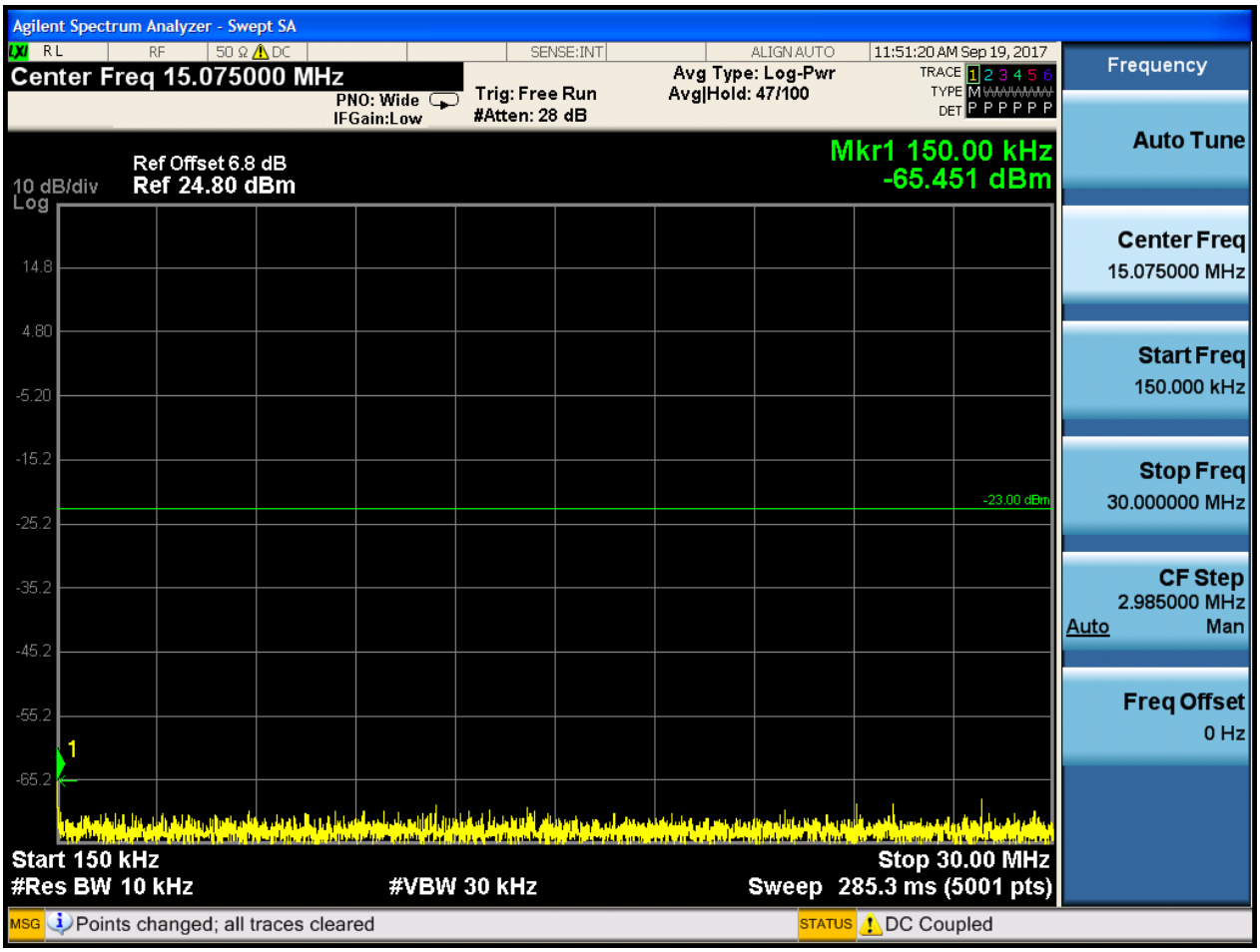

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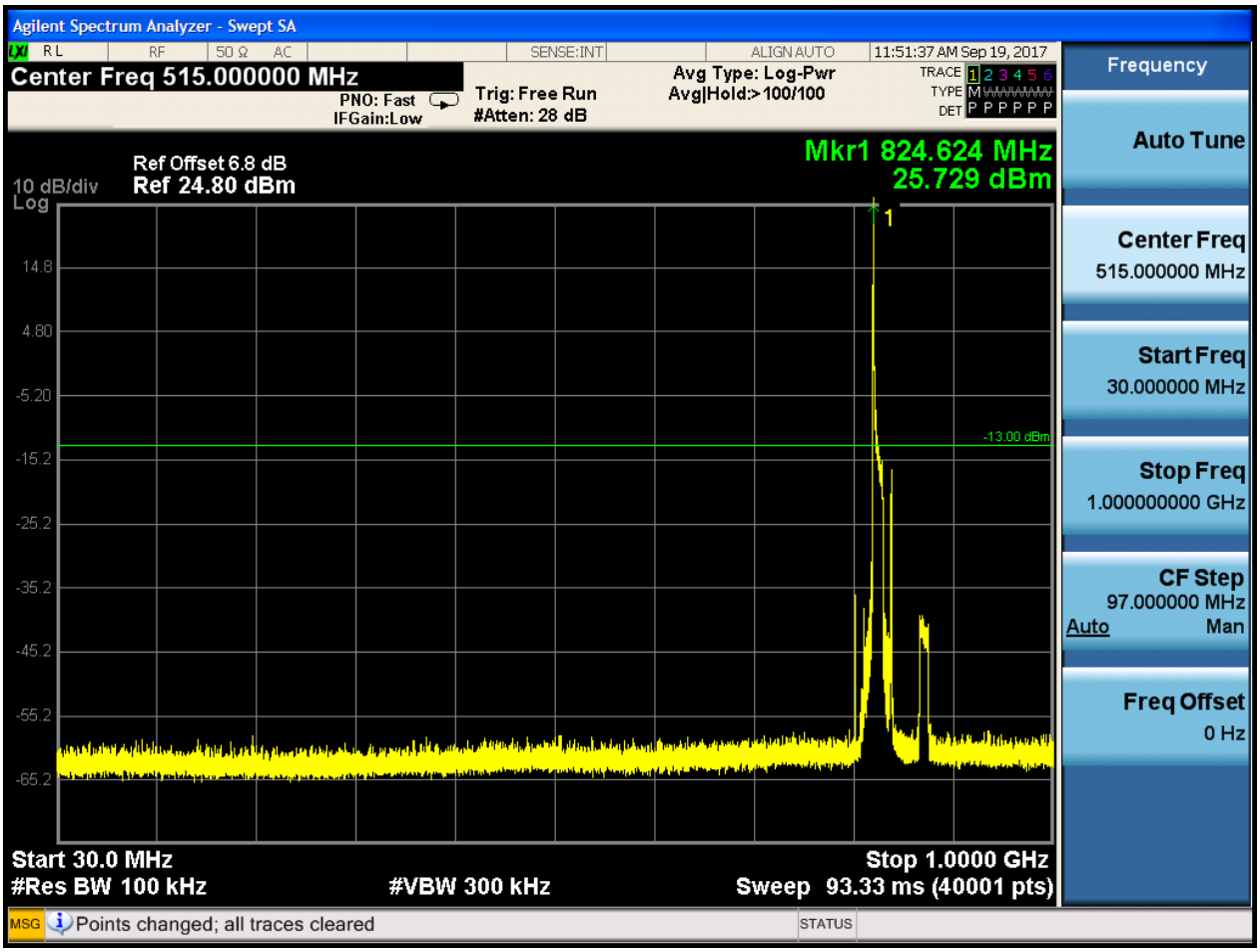

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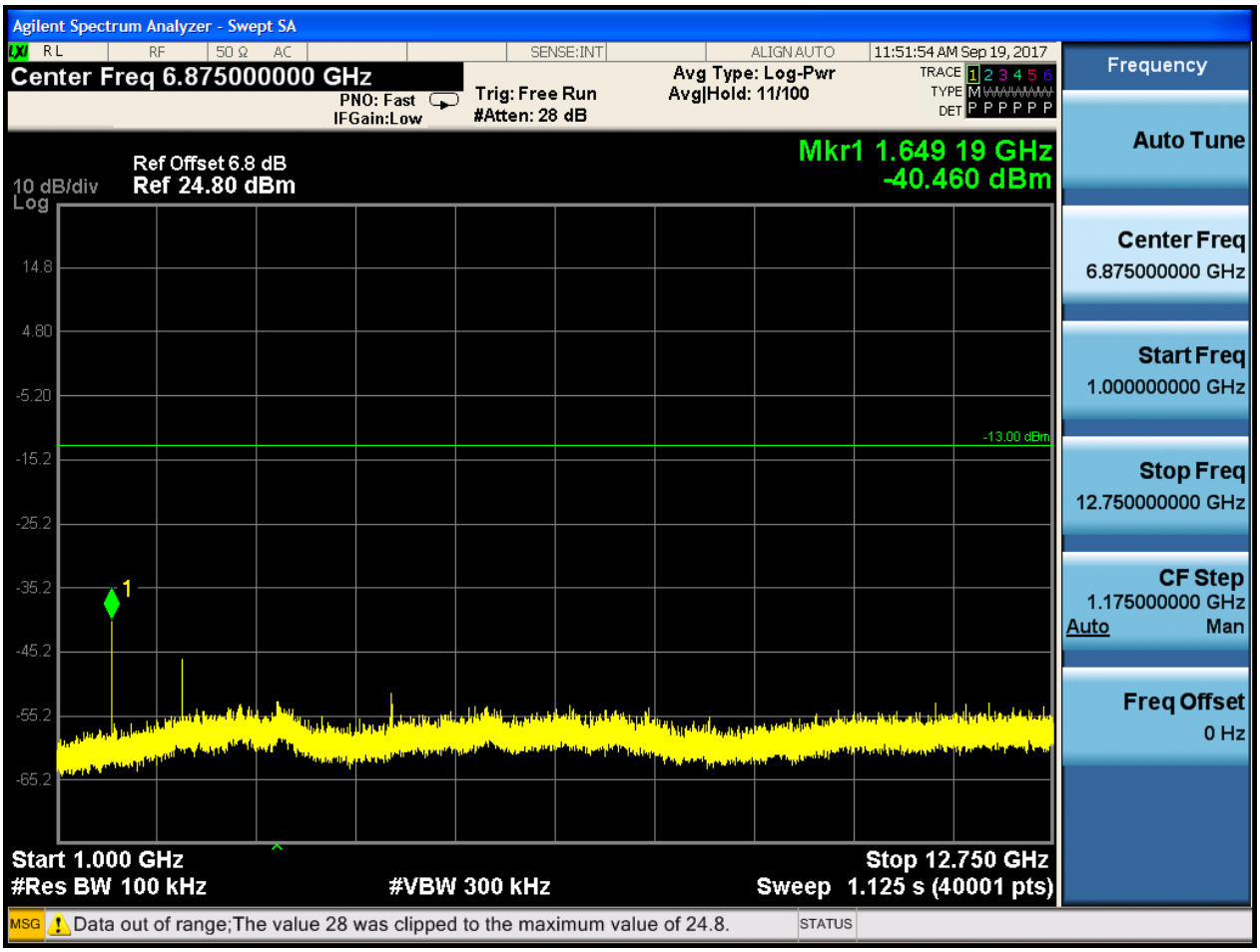

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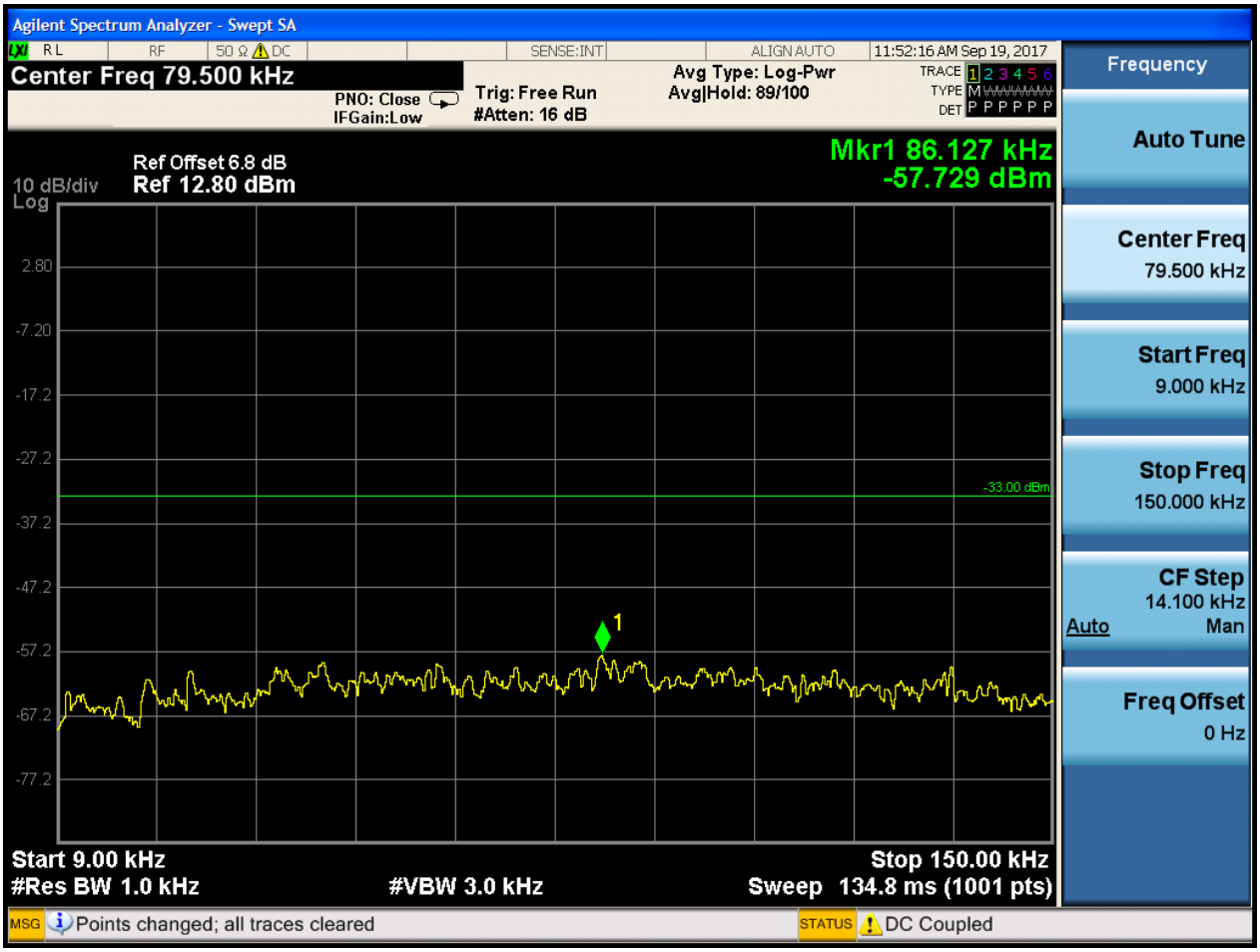
6.1.1.1.4.2 Test Channel = MCH

6.1.1.1.4.2.1 Test RB = RB1#0



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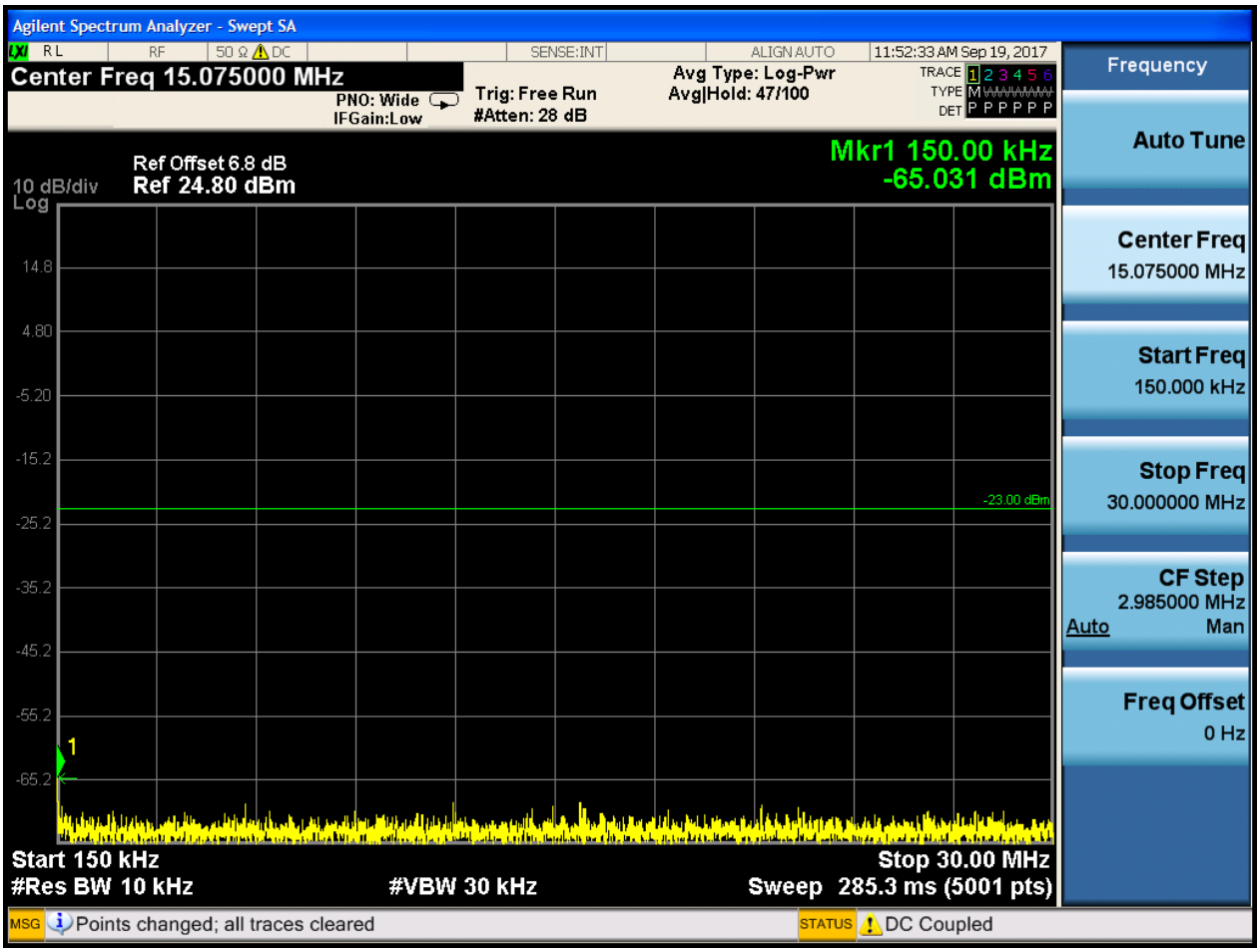

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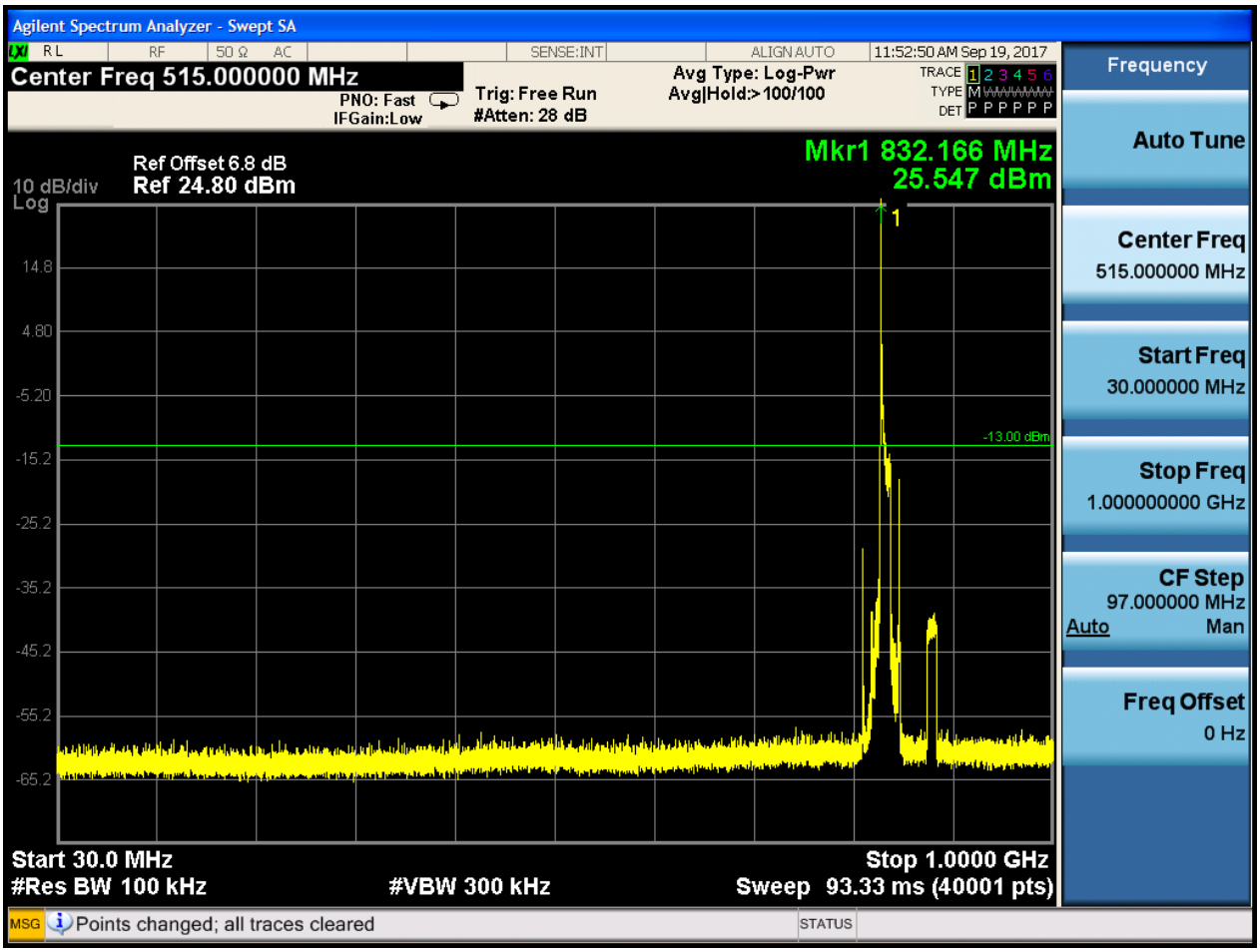

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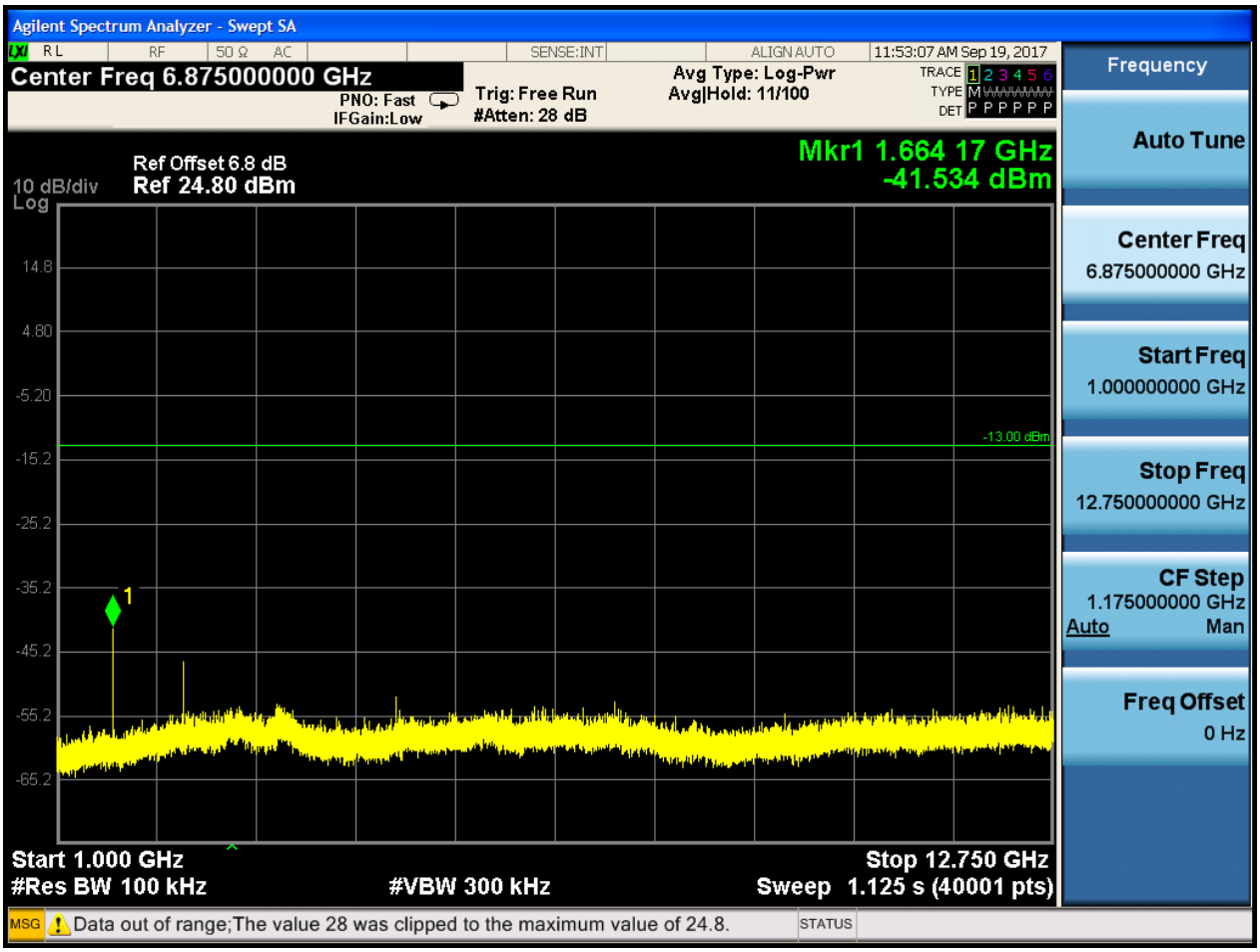

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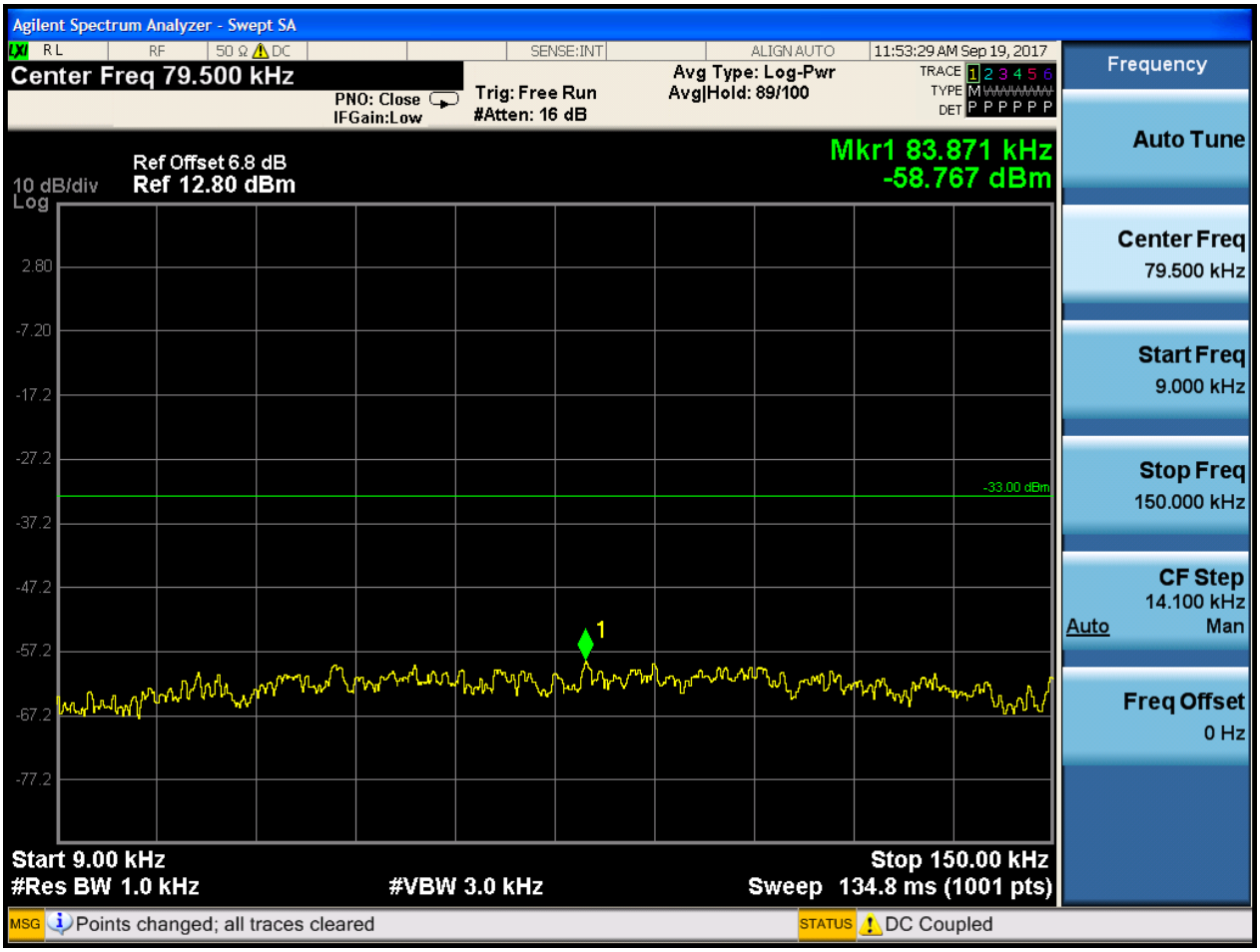
6.1.1.1.4.3 Test Channel = HCH

6.1.1.1.4.3.1 Test RB = RB1#0



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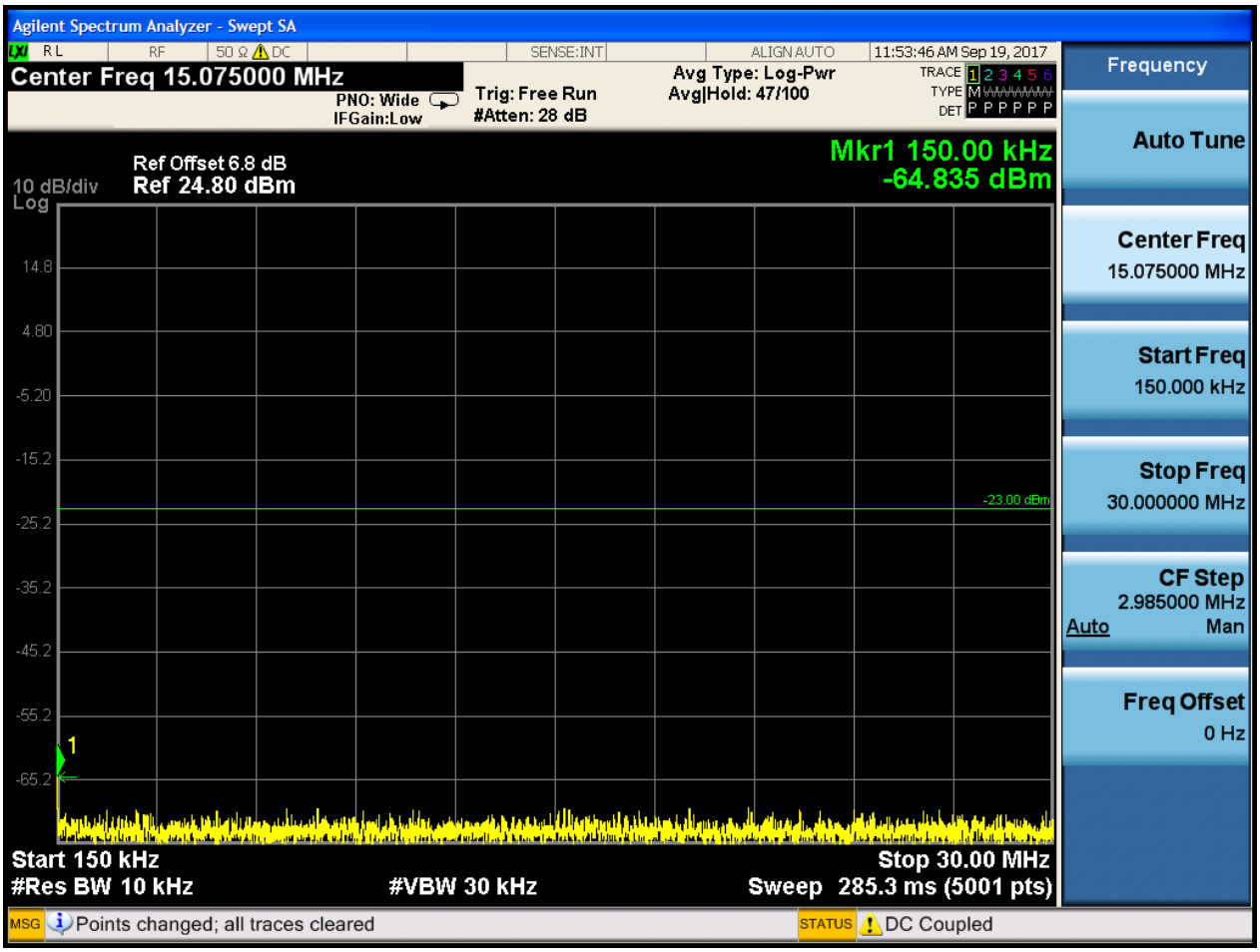

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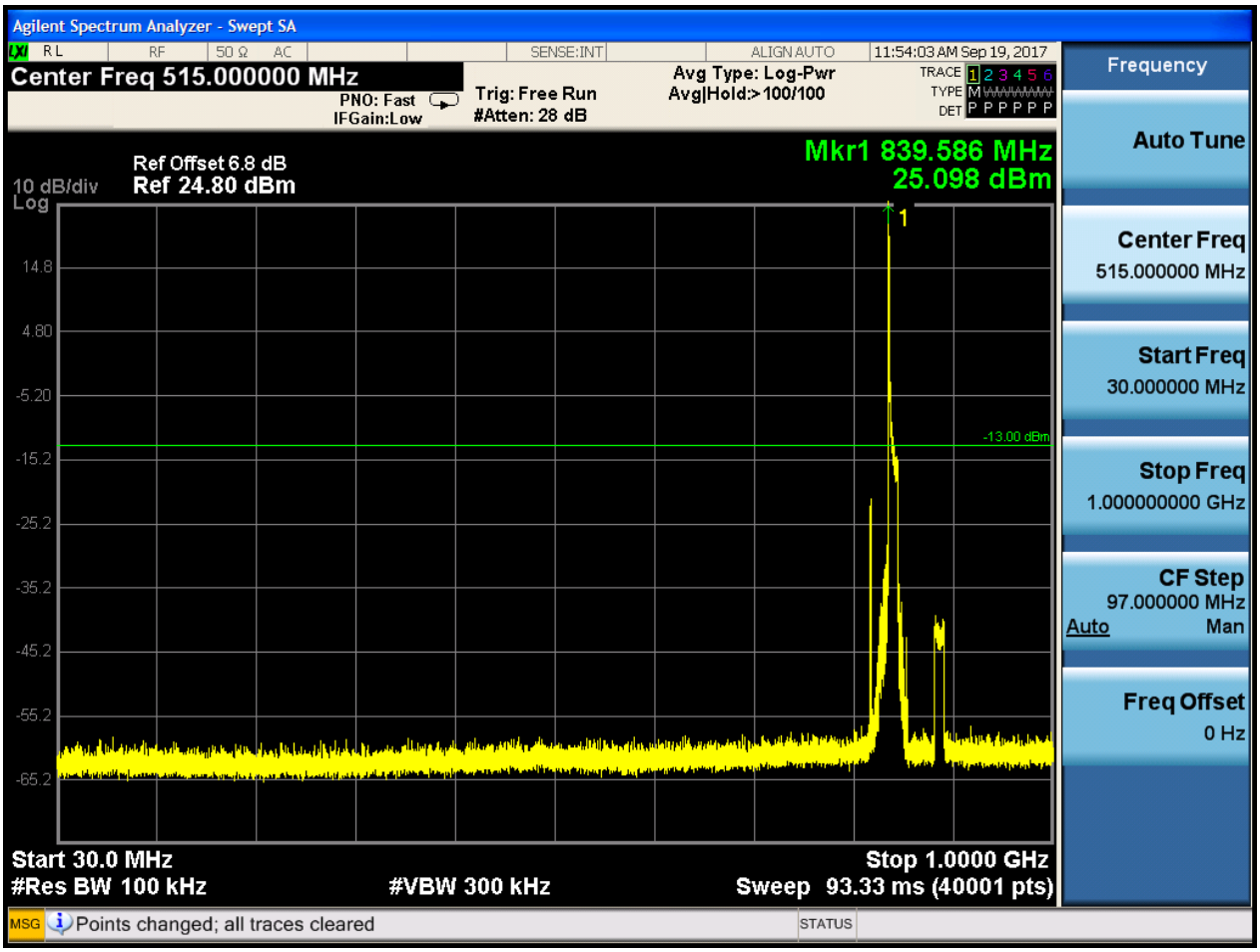

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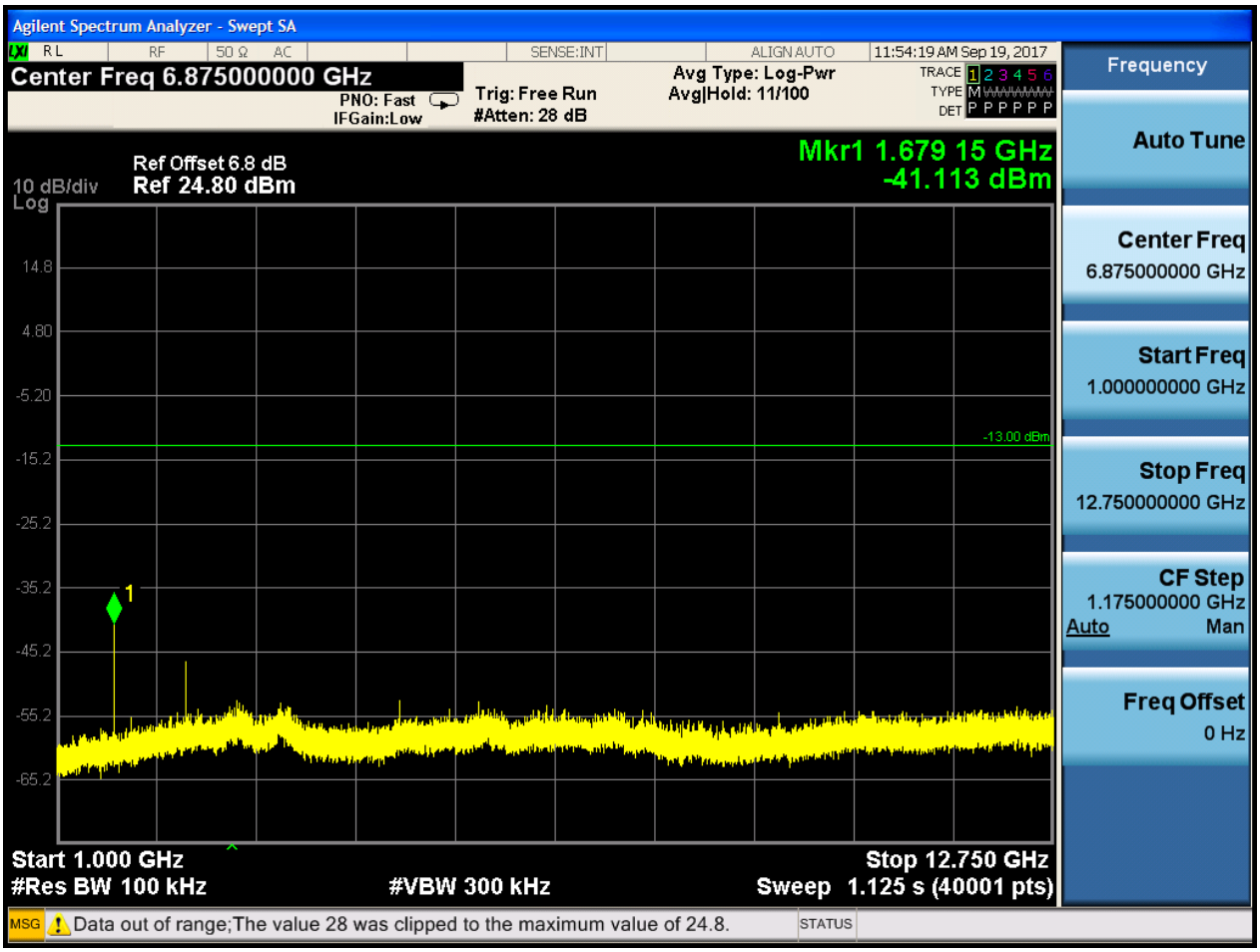

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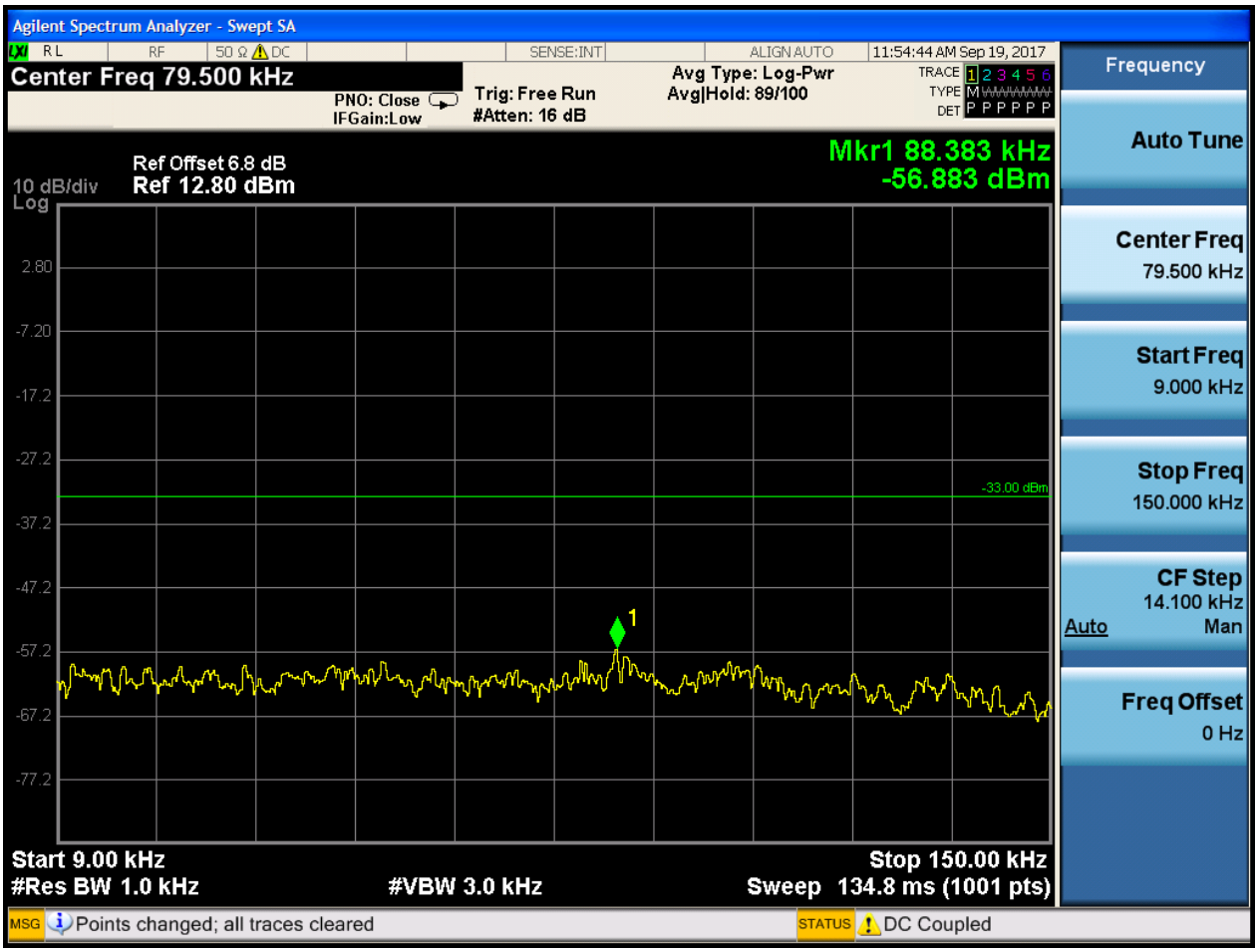
6.1.1.2 Test Mode = LTE/TM2

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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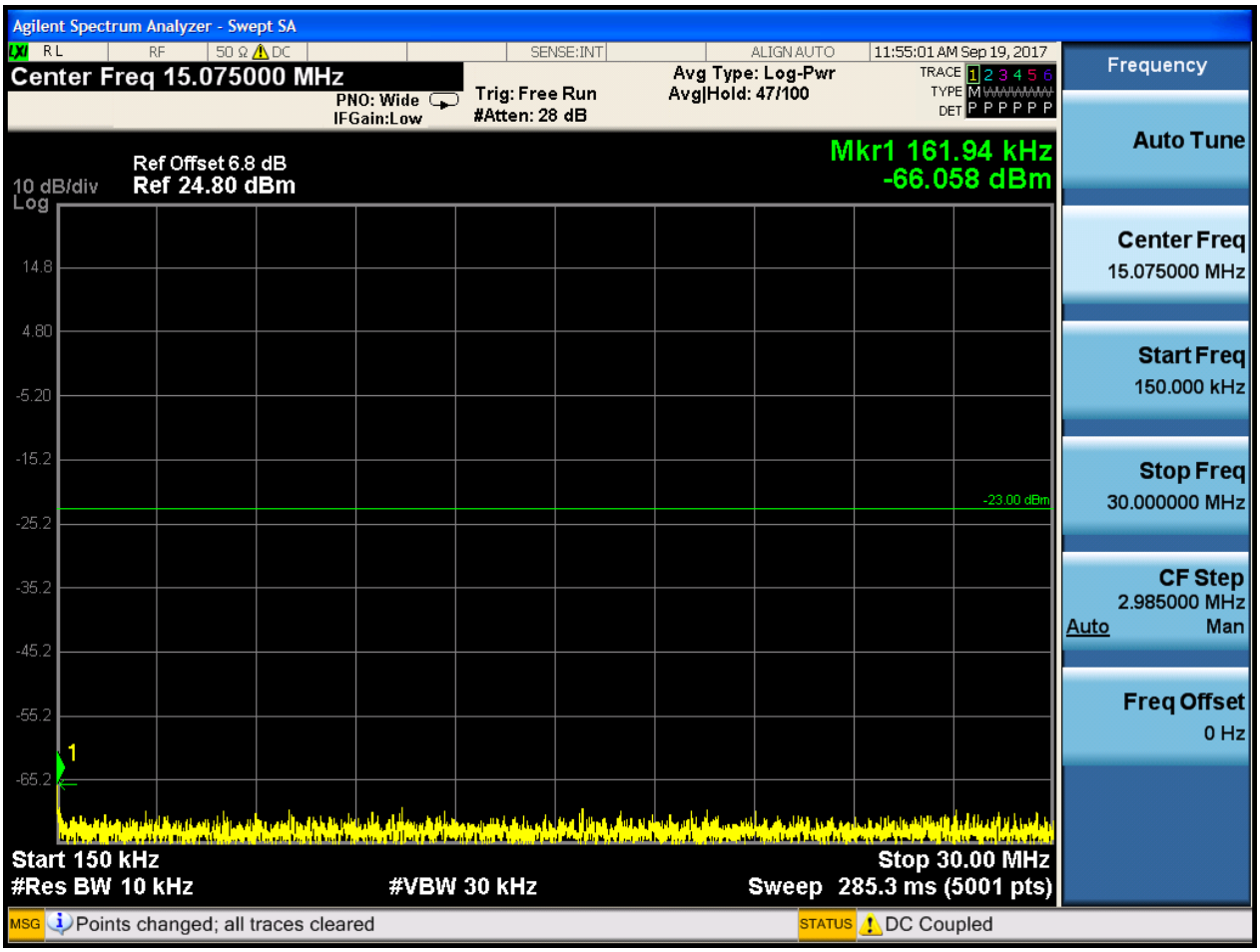

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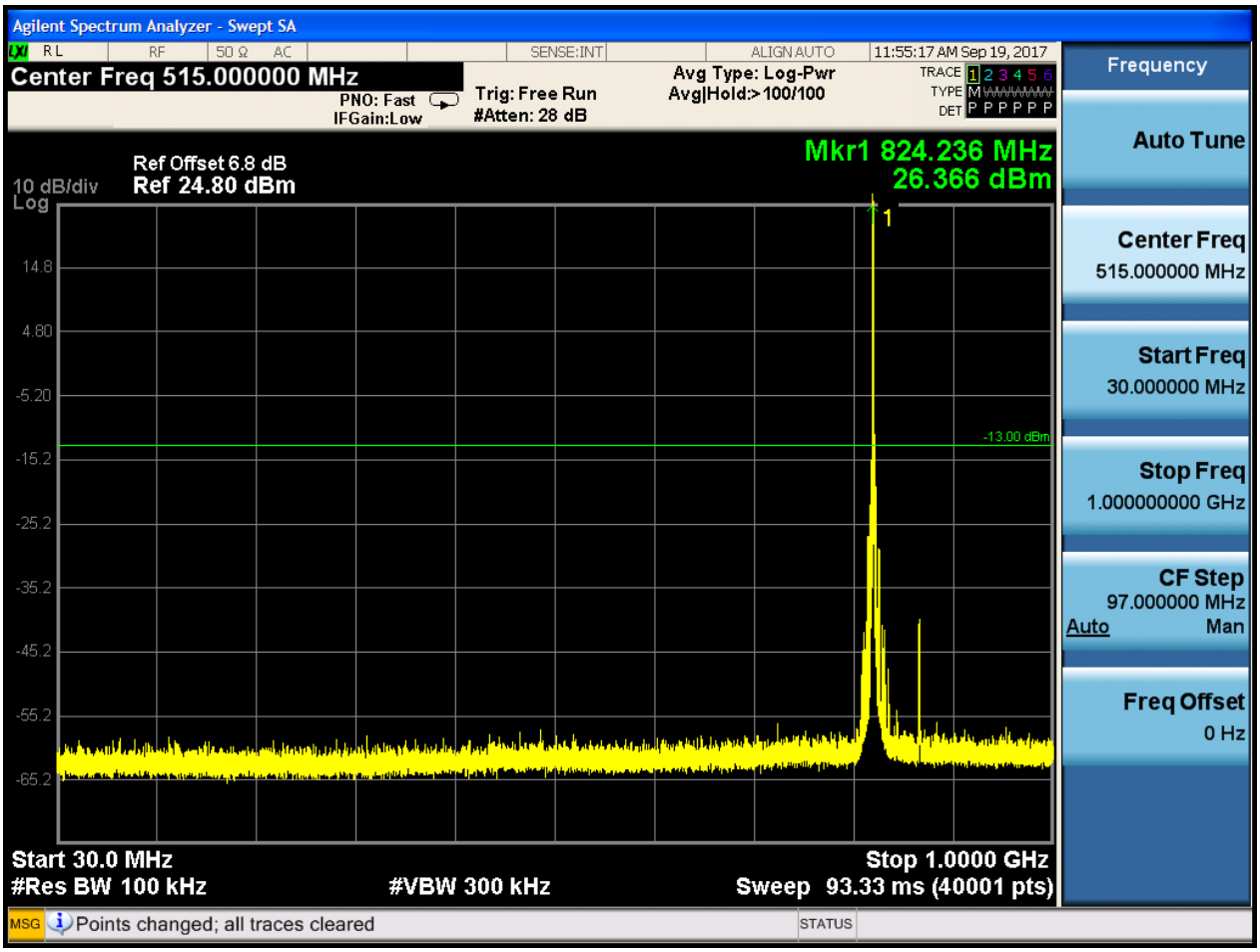

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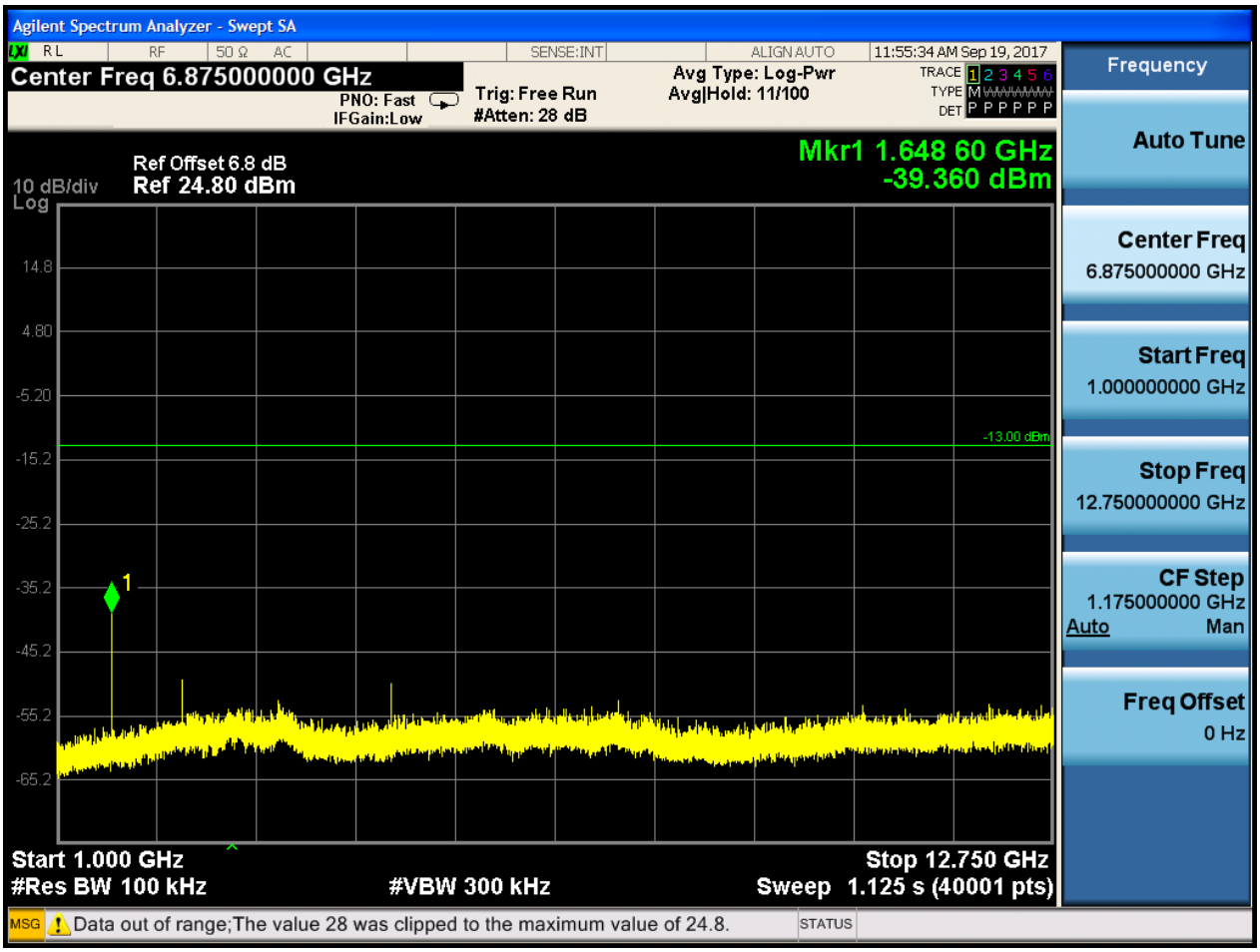

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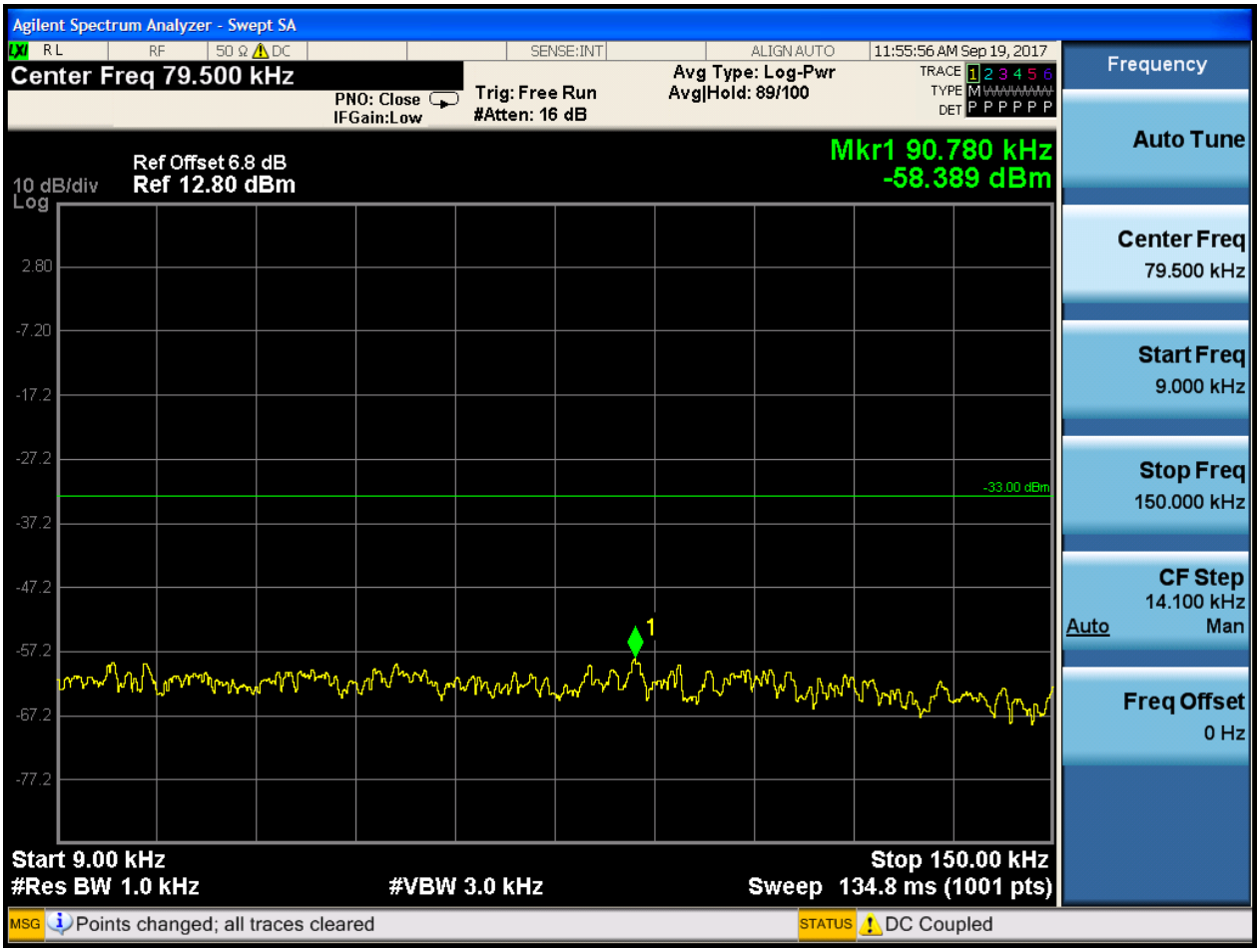
6.1.1.2.1.2 Test Channel = MCH

6.1.1.2.1.2.1 Test RB = RB1#0



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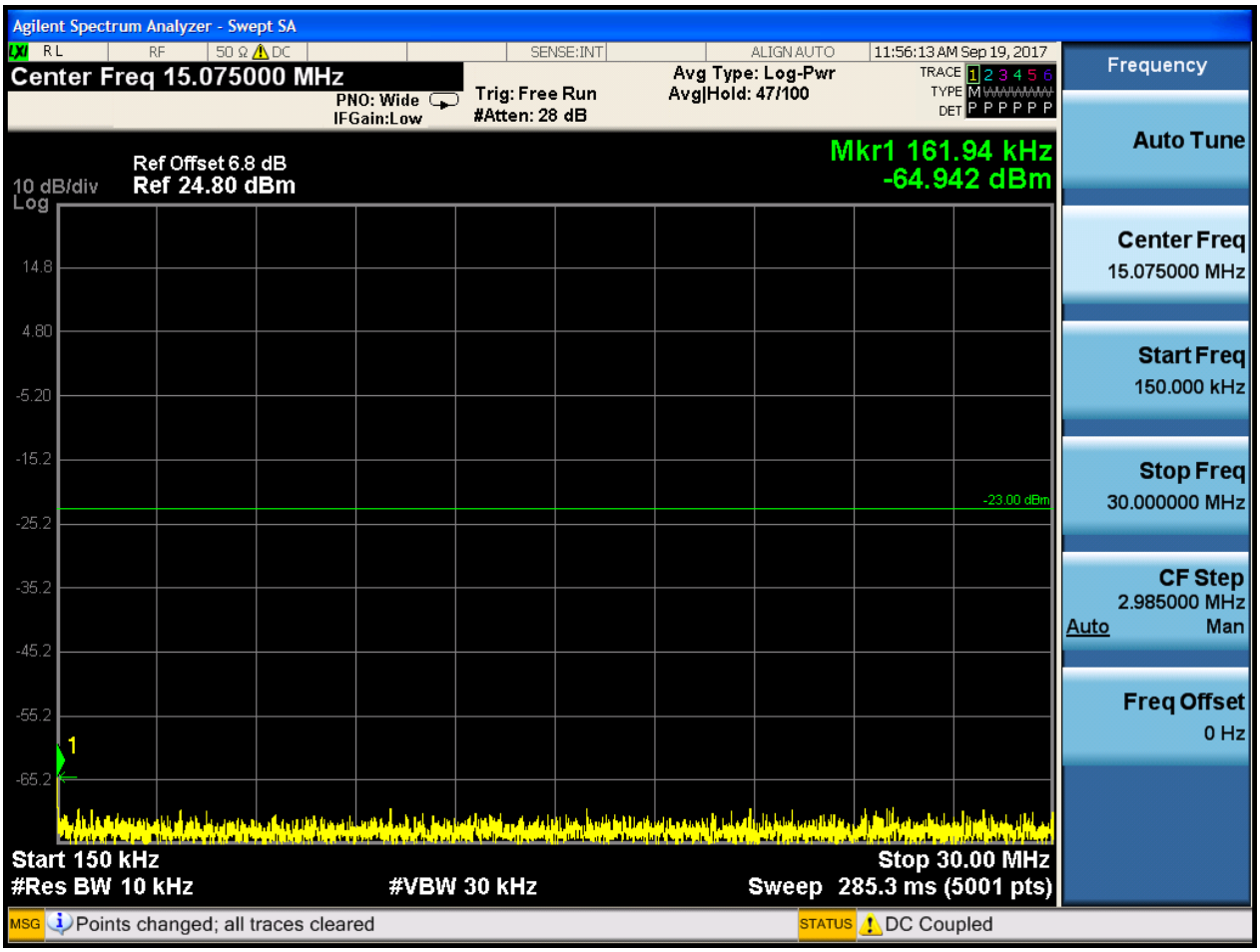

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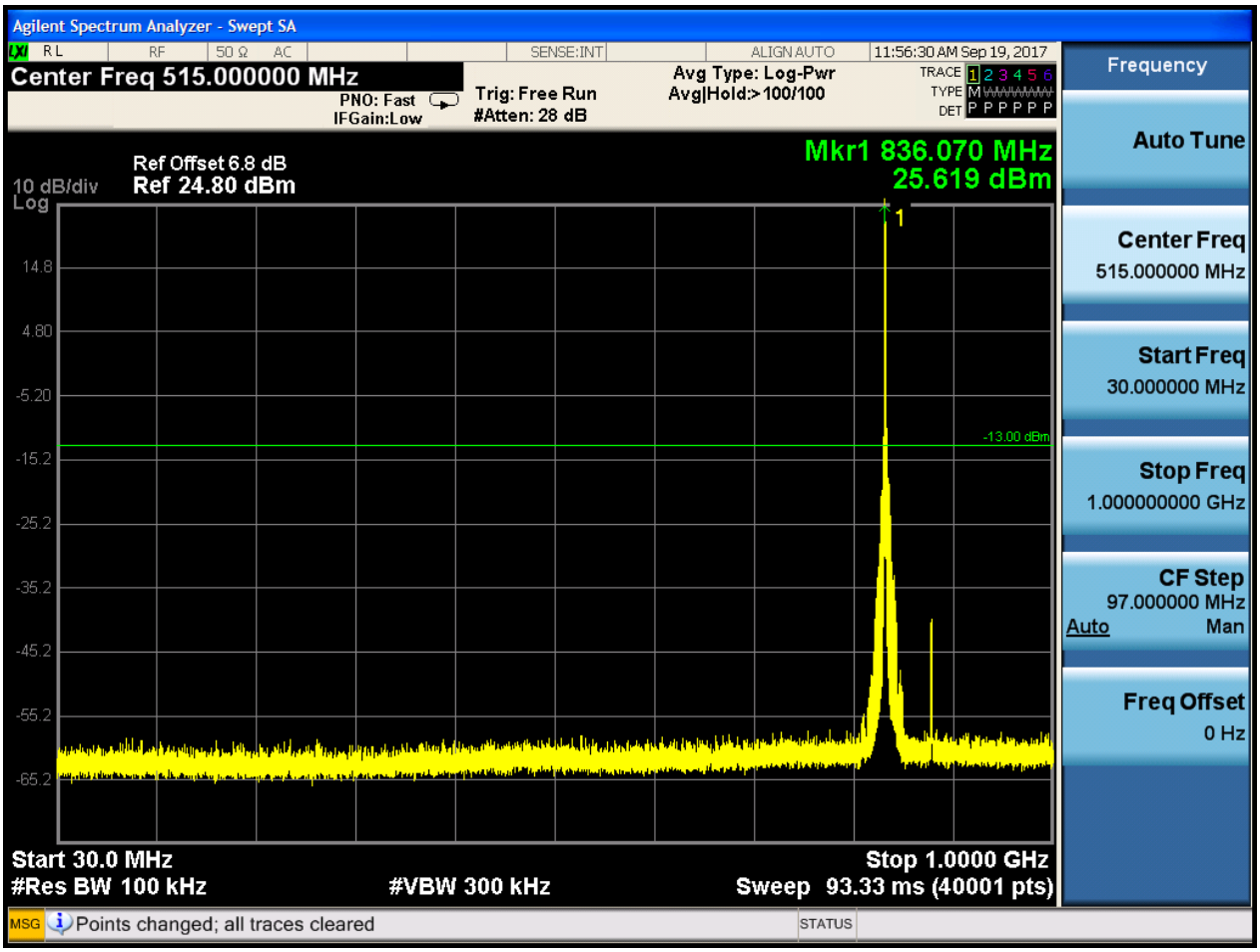

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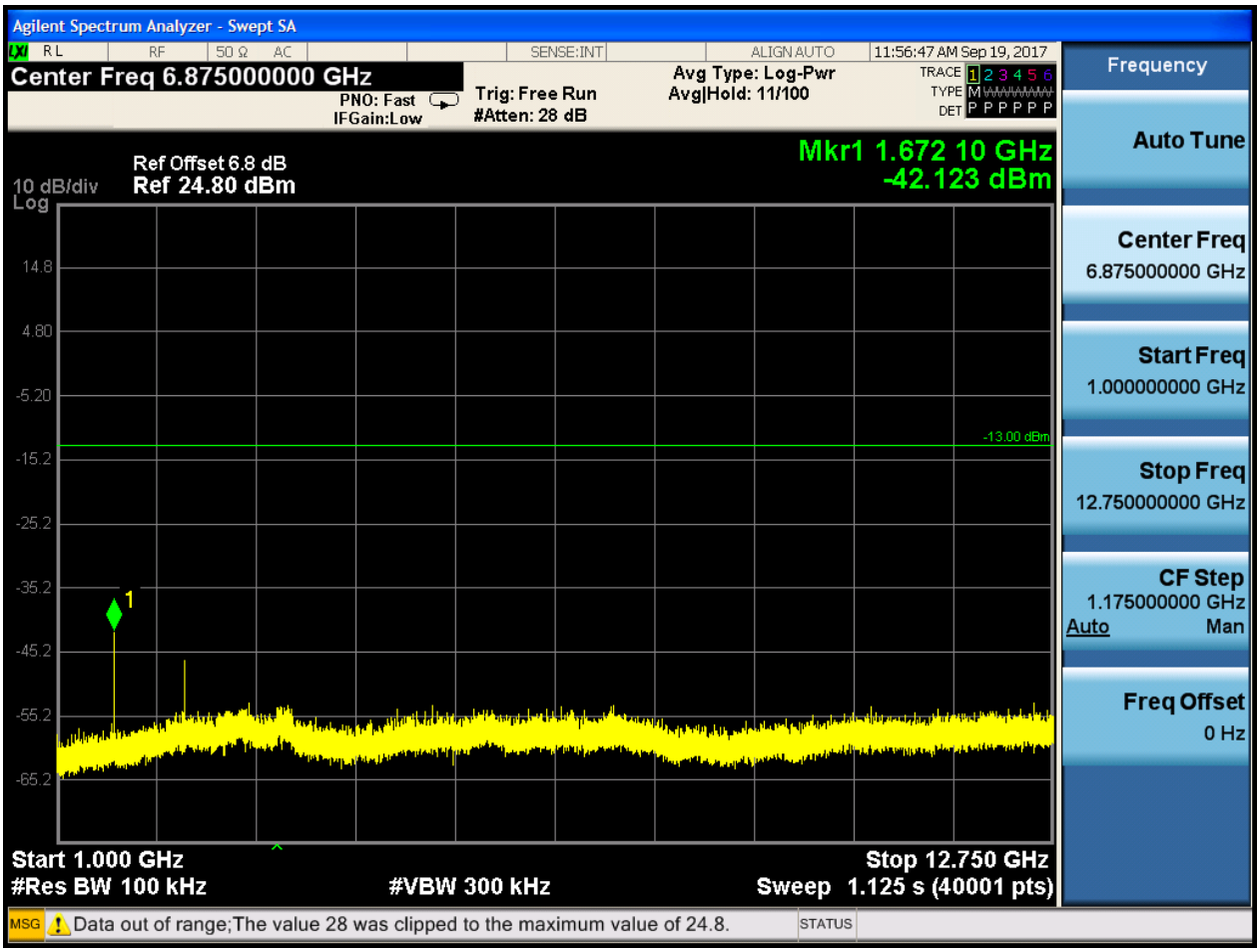

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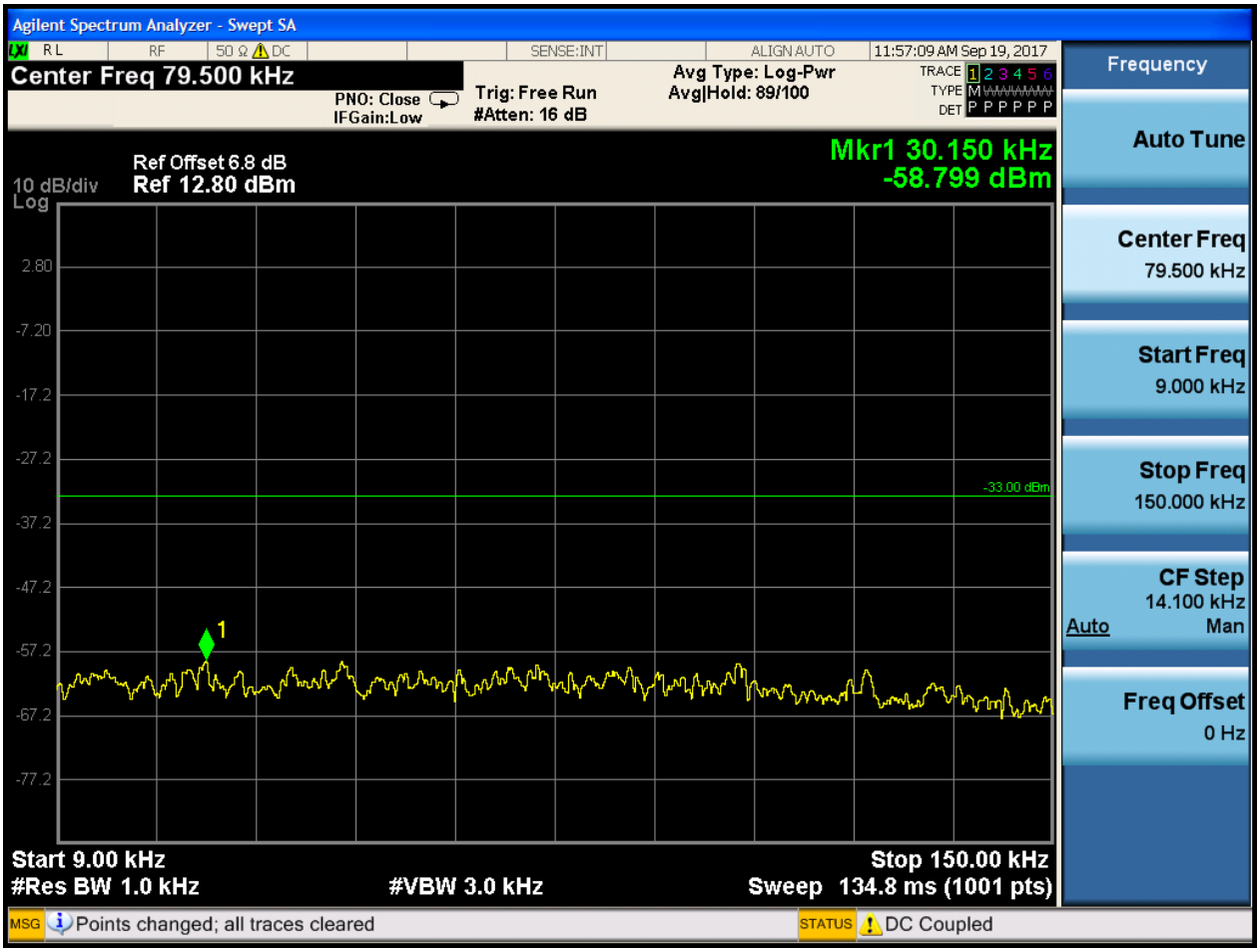
6.1.1.2.1.3 Test Channel = HCH

6.1.1.2.1.3.1 Test RB = RB1#0



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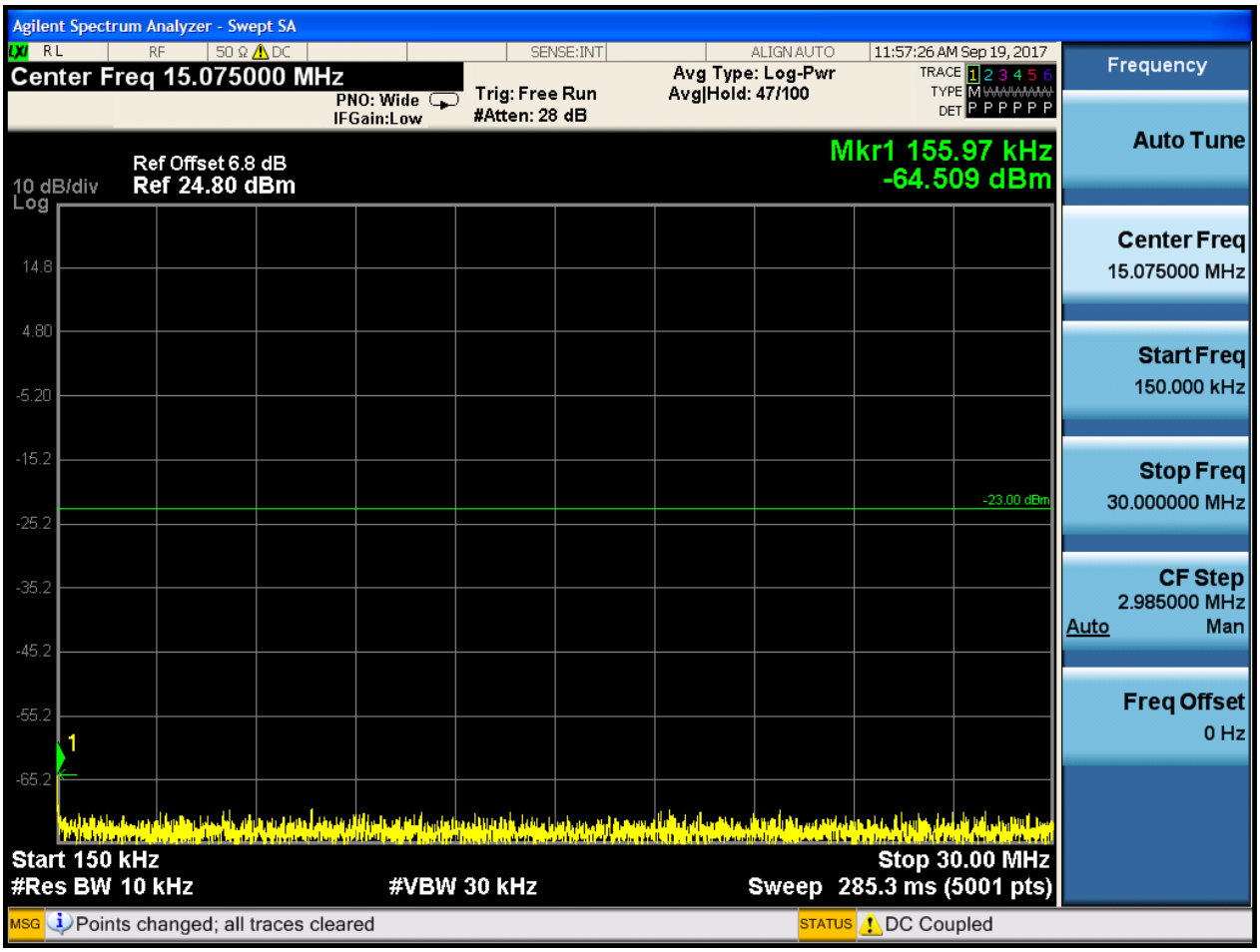

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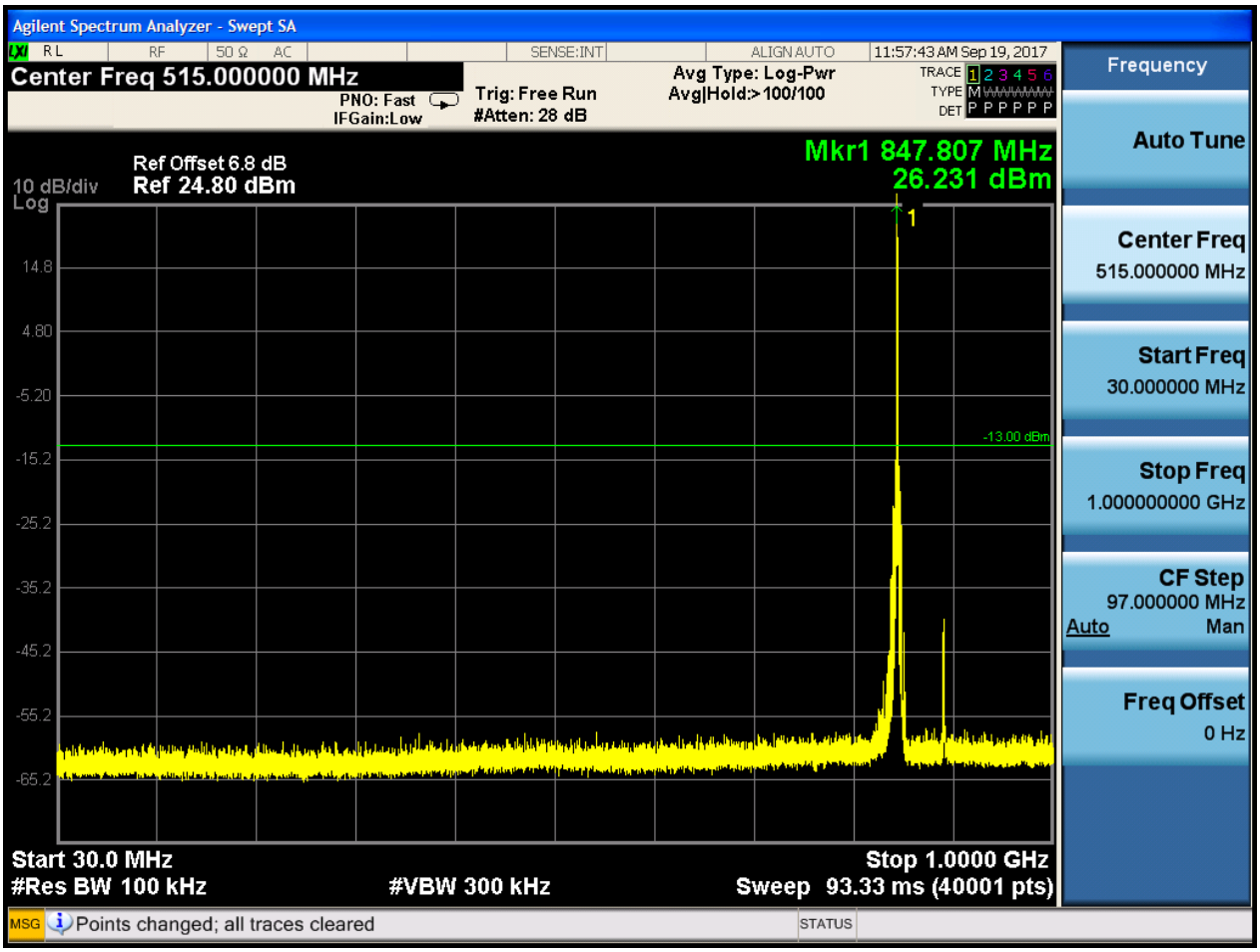

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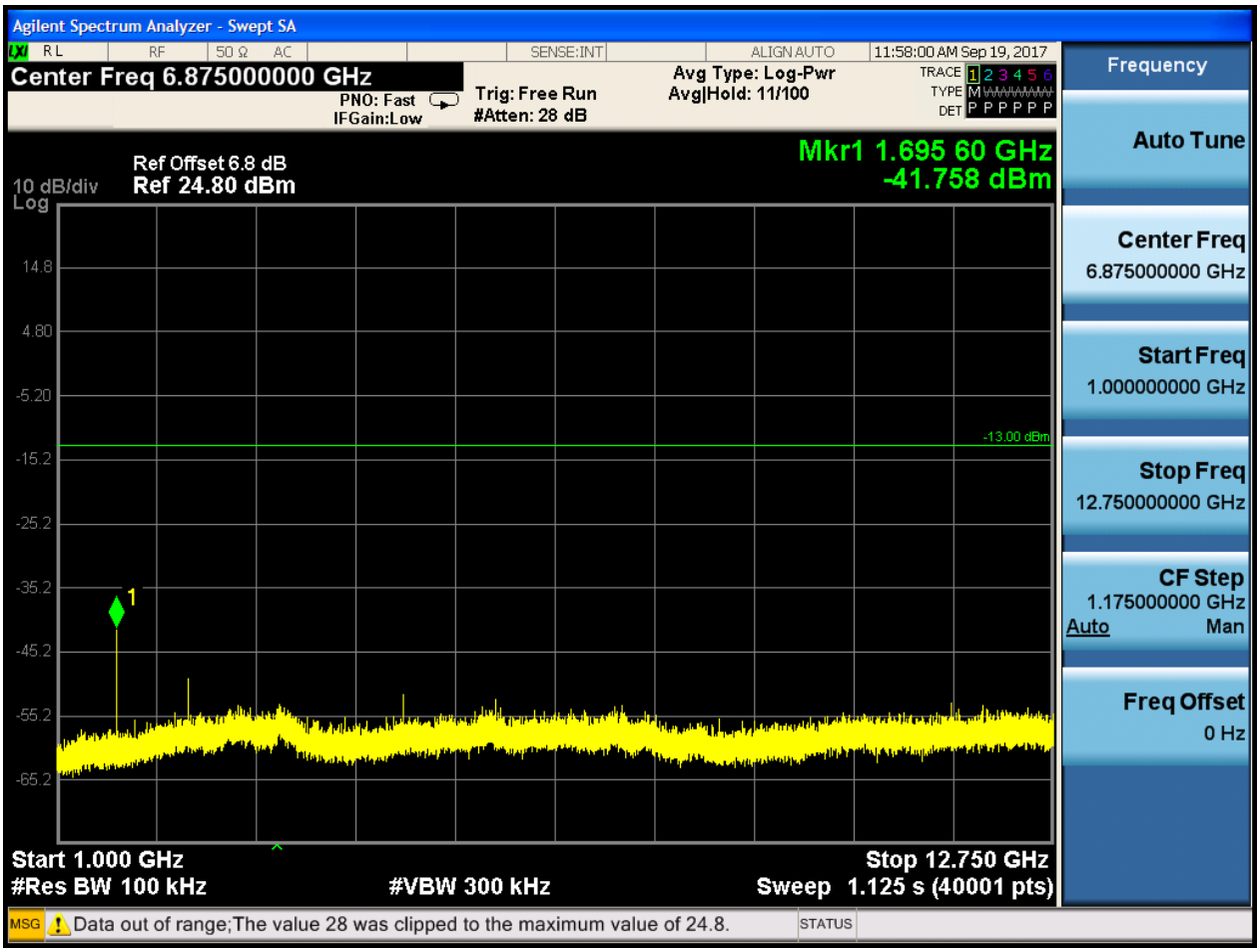

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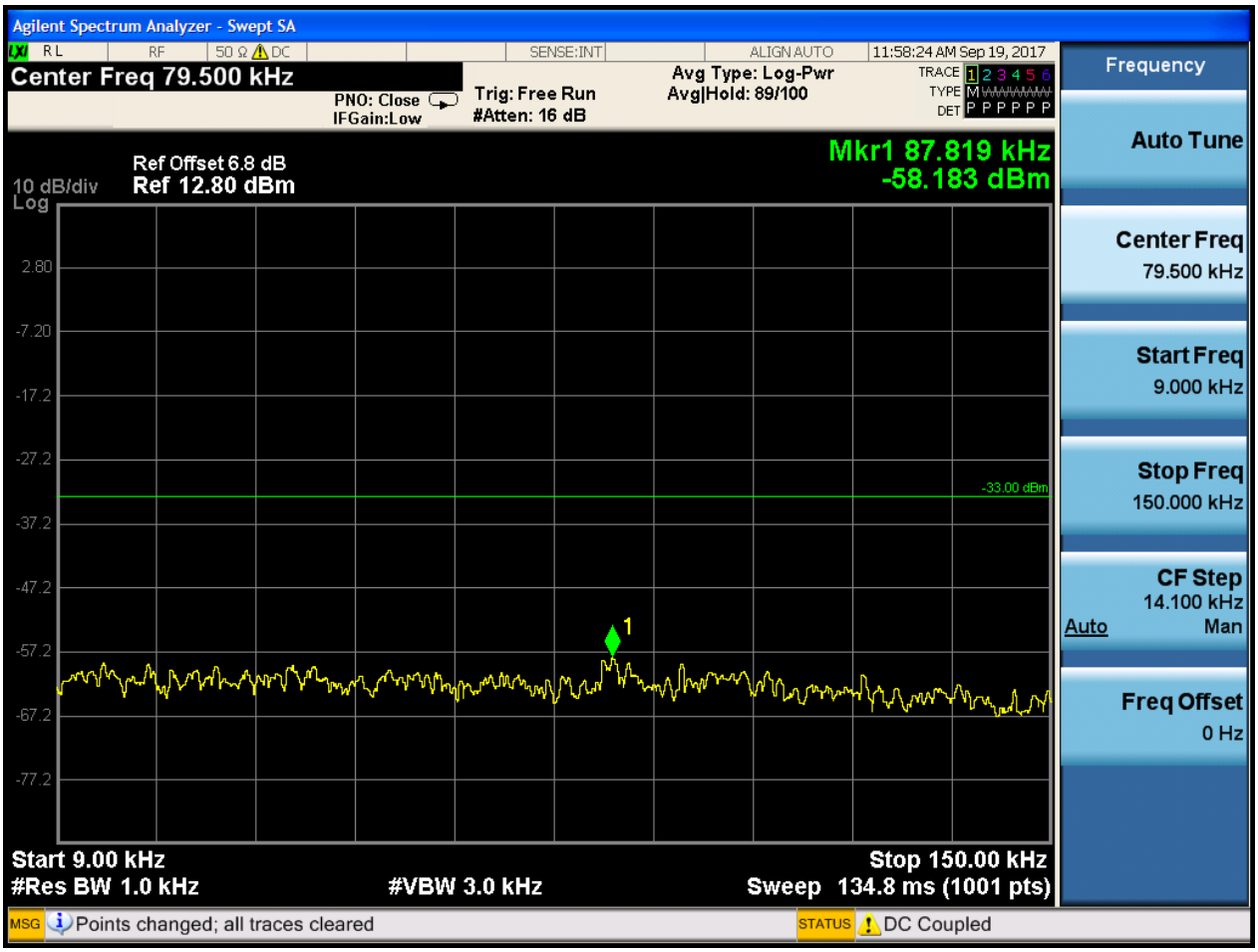
6.1.1.2.2 Test Bandwidth = 3

6.1.1.2.2.1 Test Channel = LCH

6.1.1.2.2.1.1 Test RB = RB1#0



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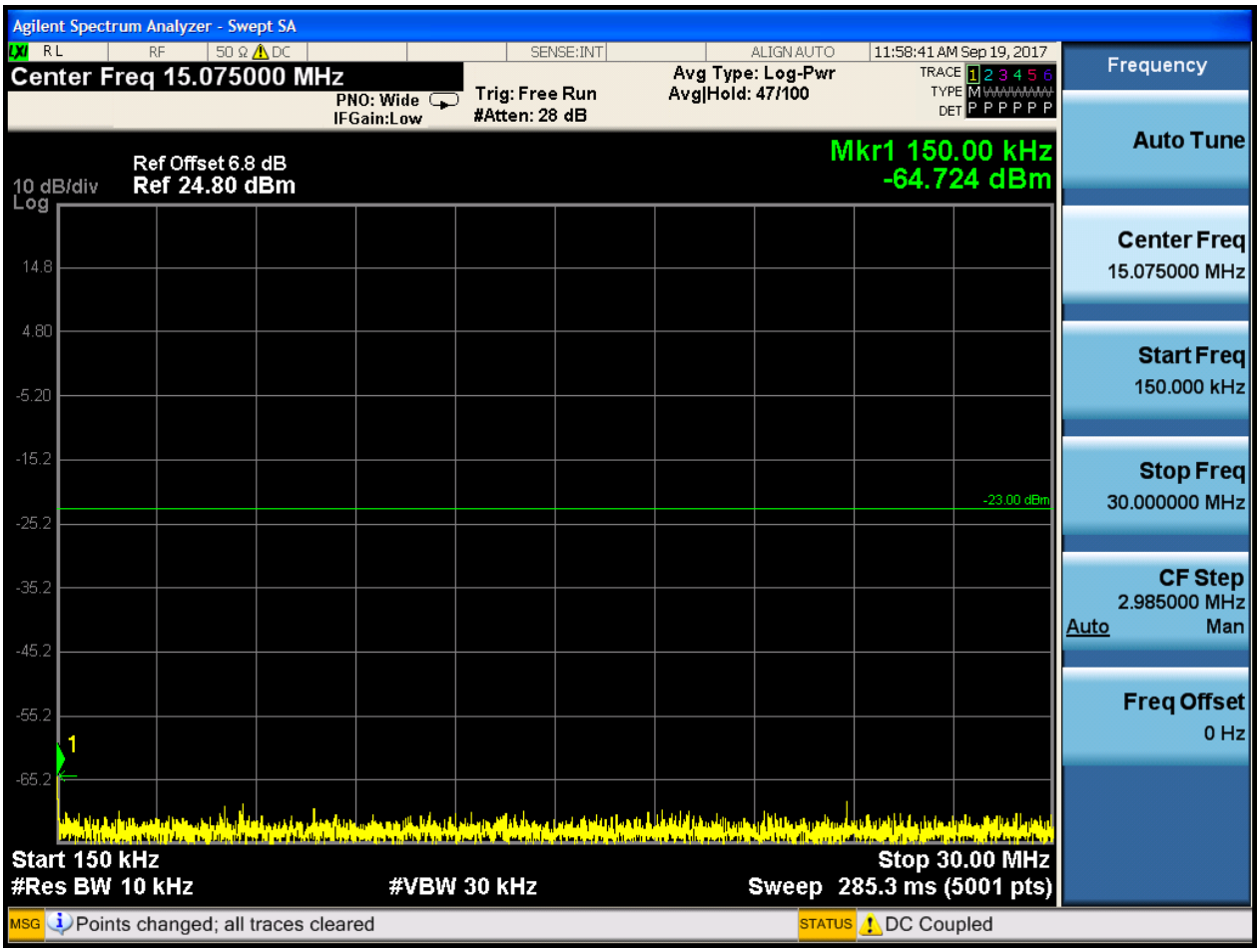

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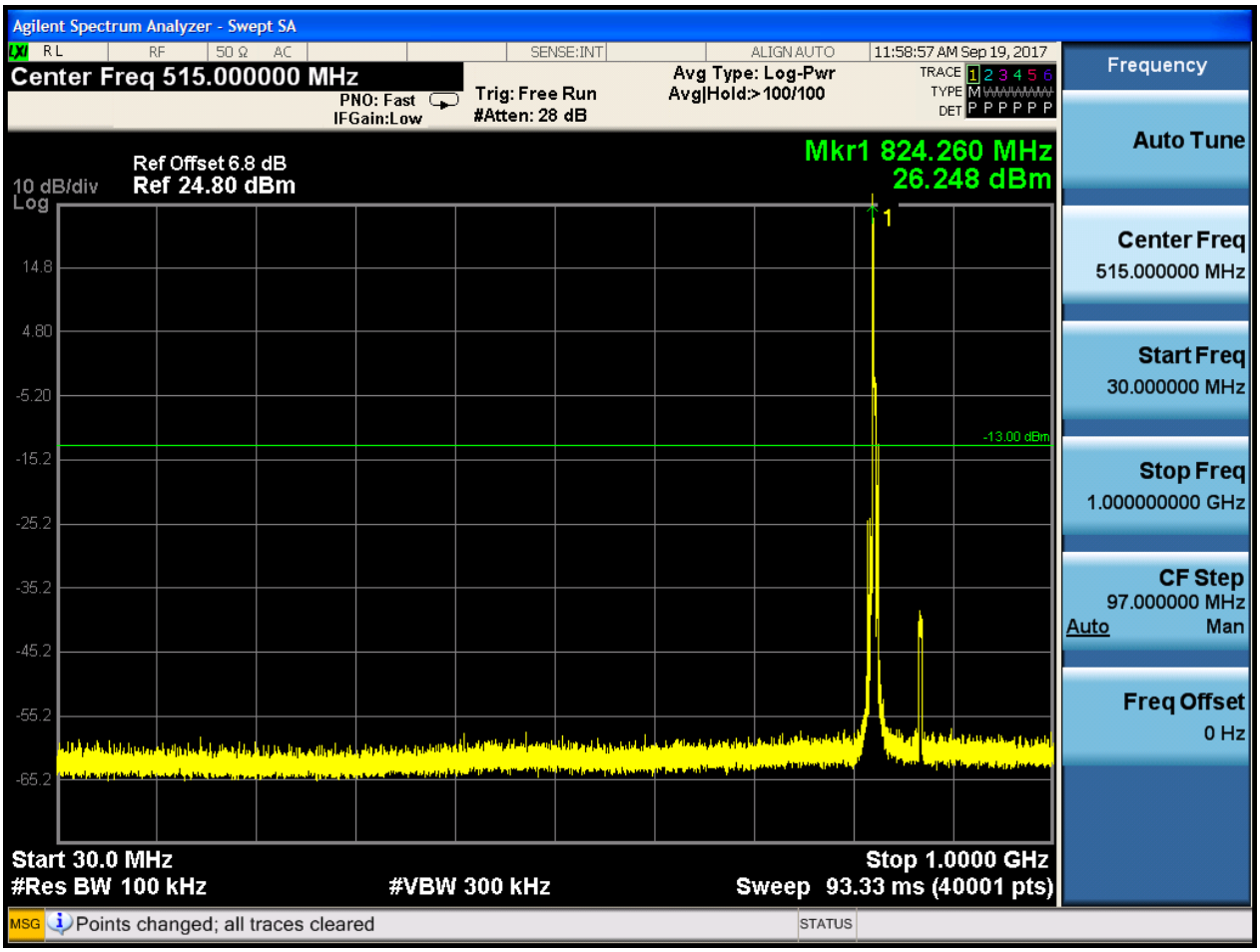

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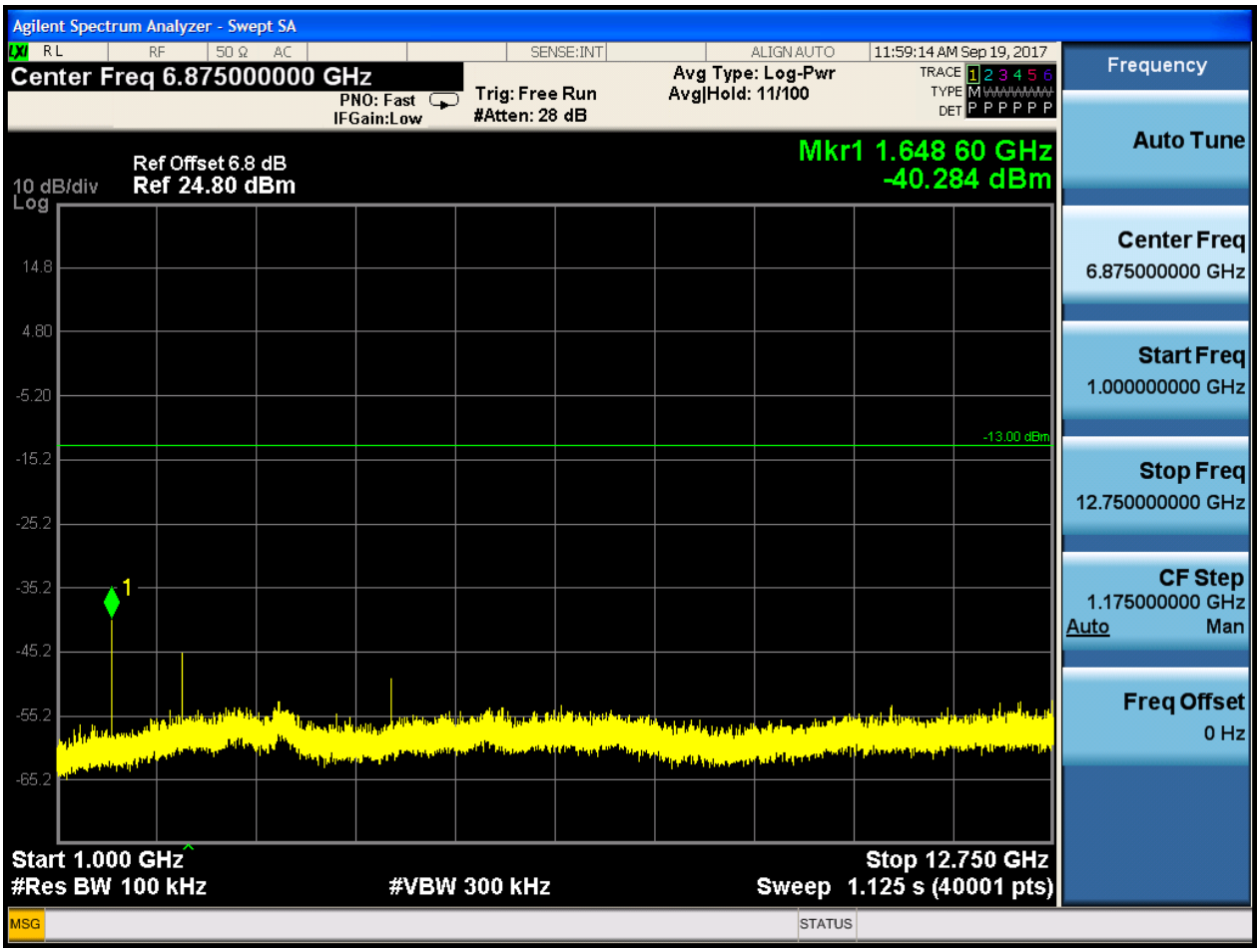

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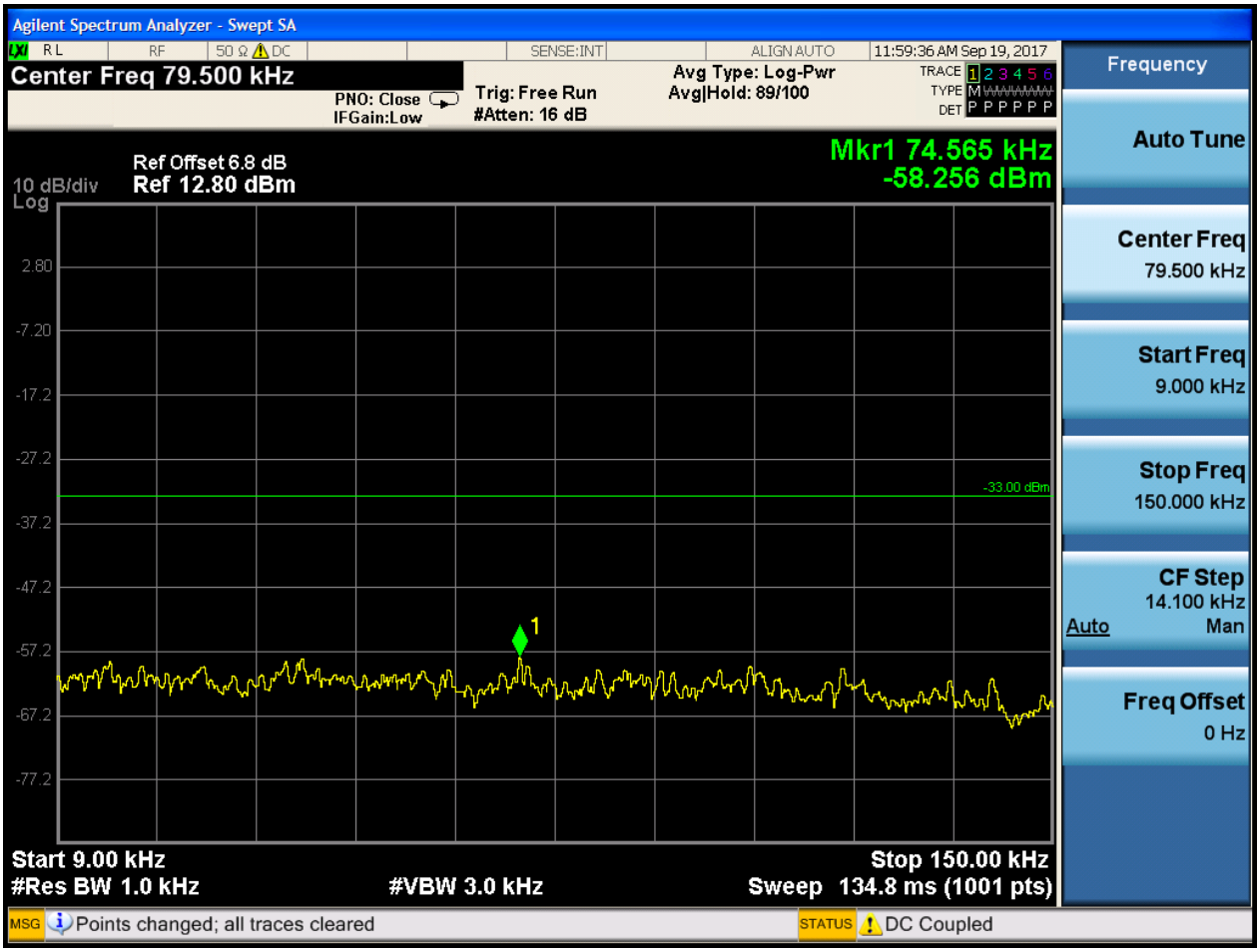
6.1.1.2.2.2 Test Channel = MCH

6.1.1.2.2.2.1 Test RB = RB1#0



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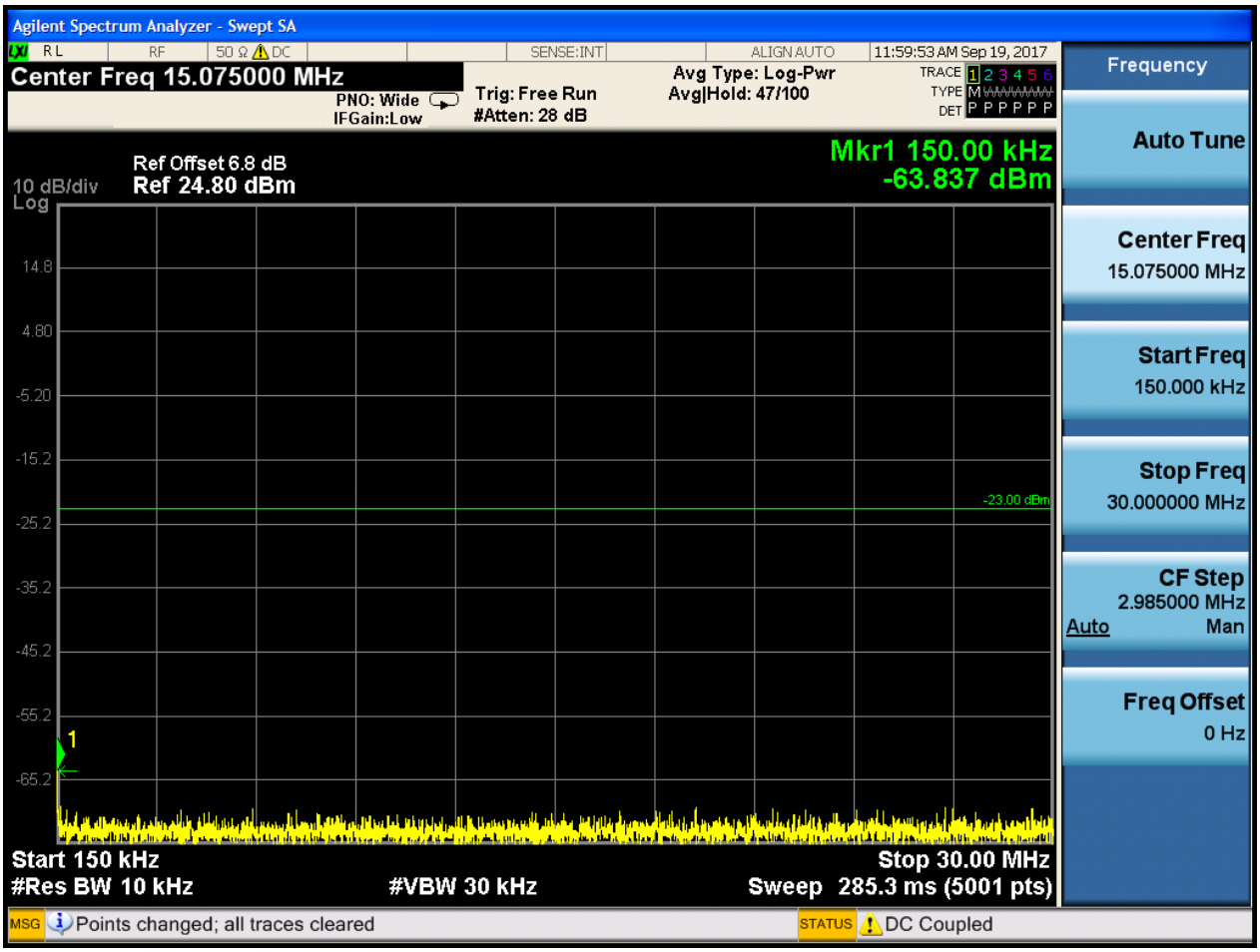

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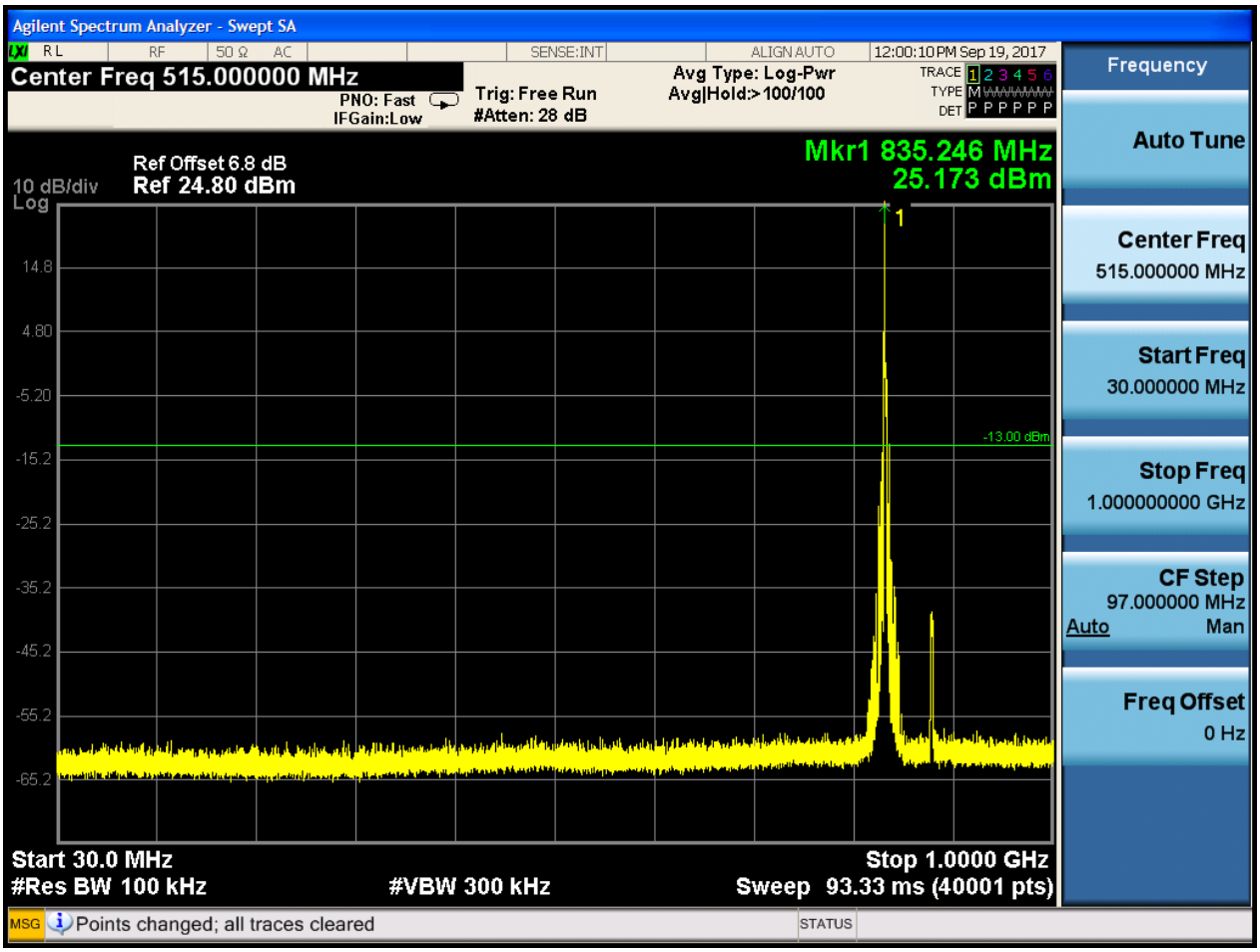

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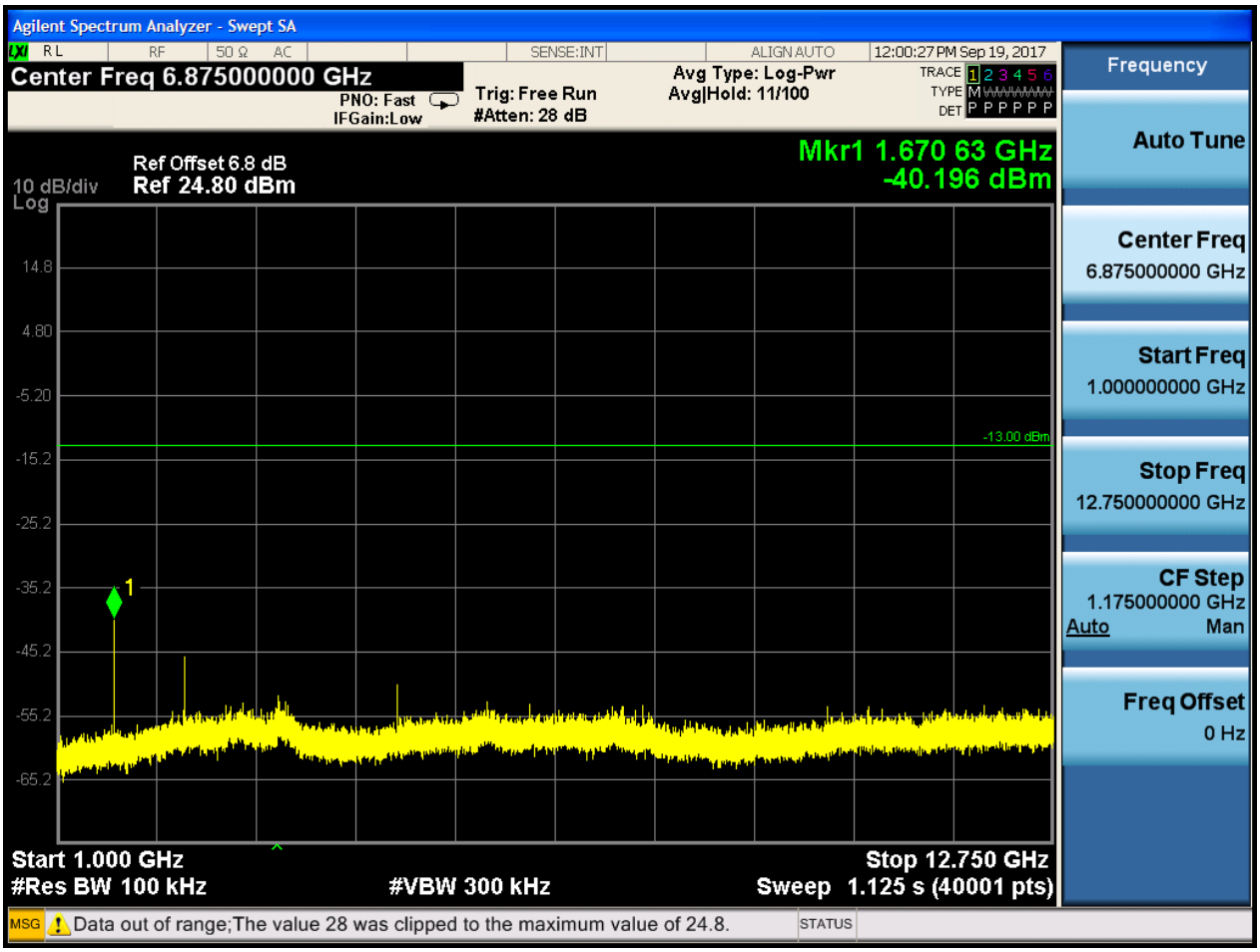

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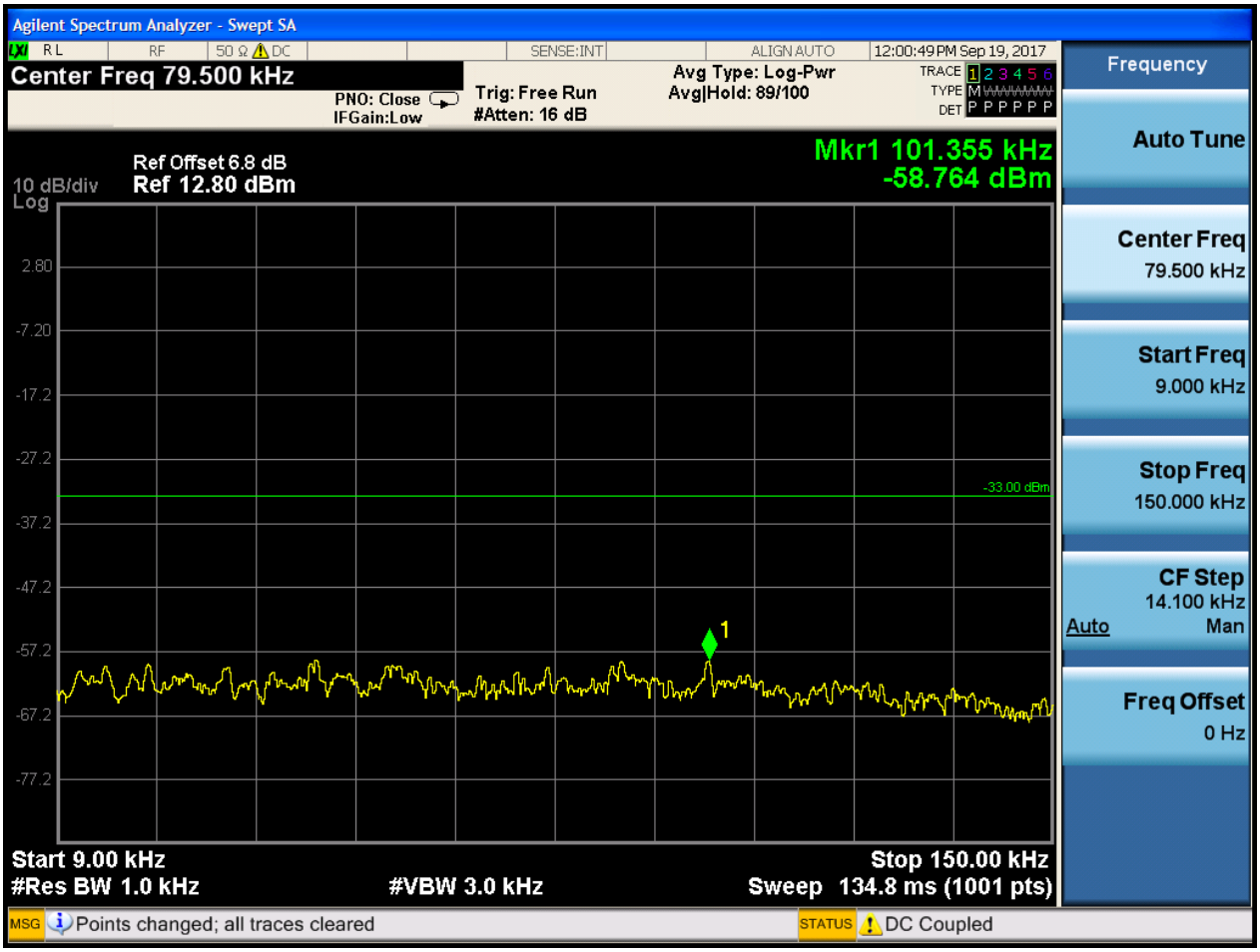
6.1.1.2.2.3 Test Channel = HCH

6.1.1.2.2.3.1 Test RB = RB1#0



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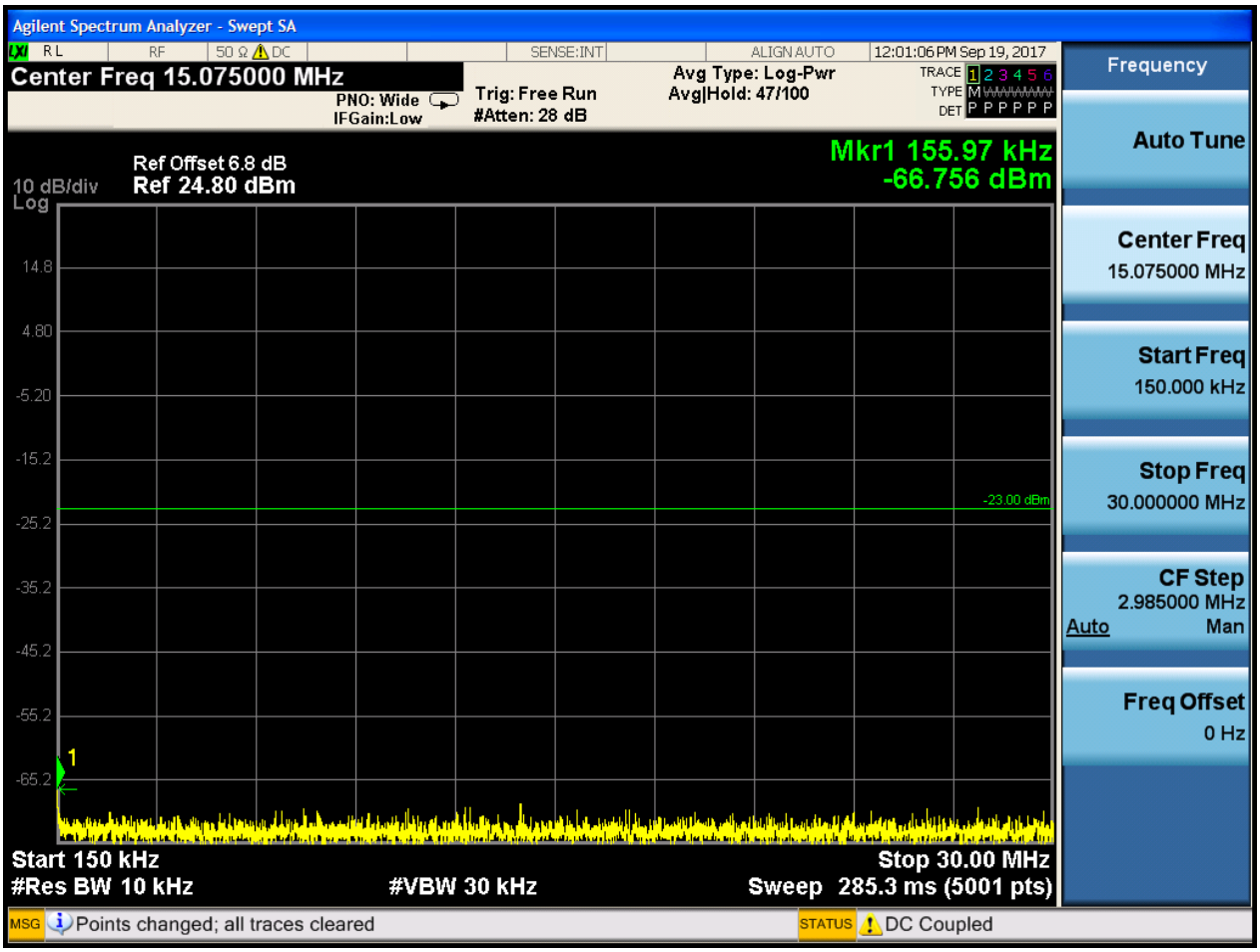

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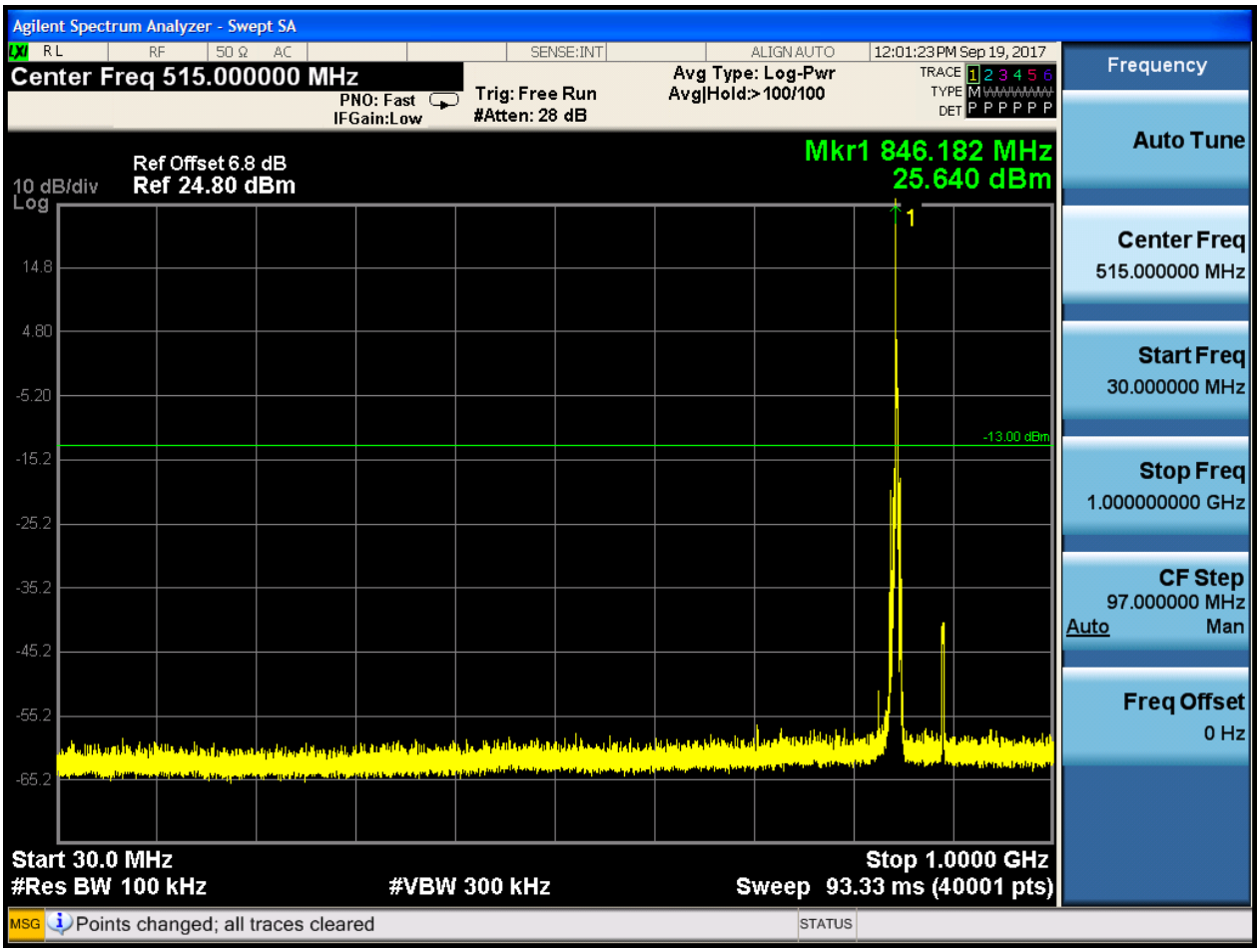

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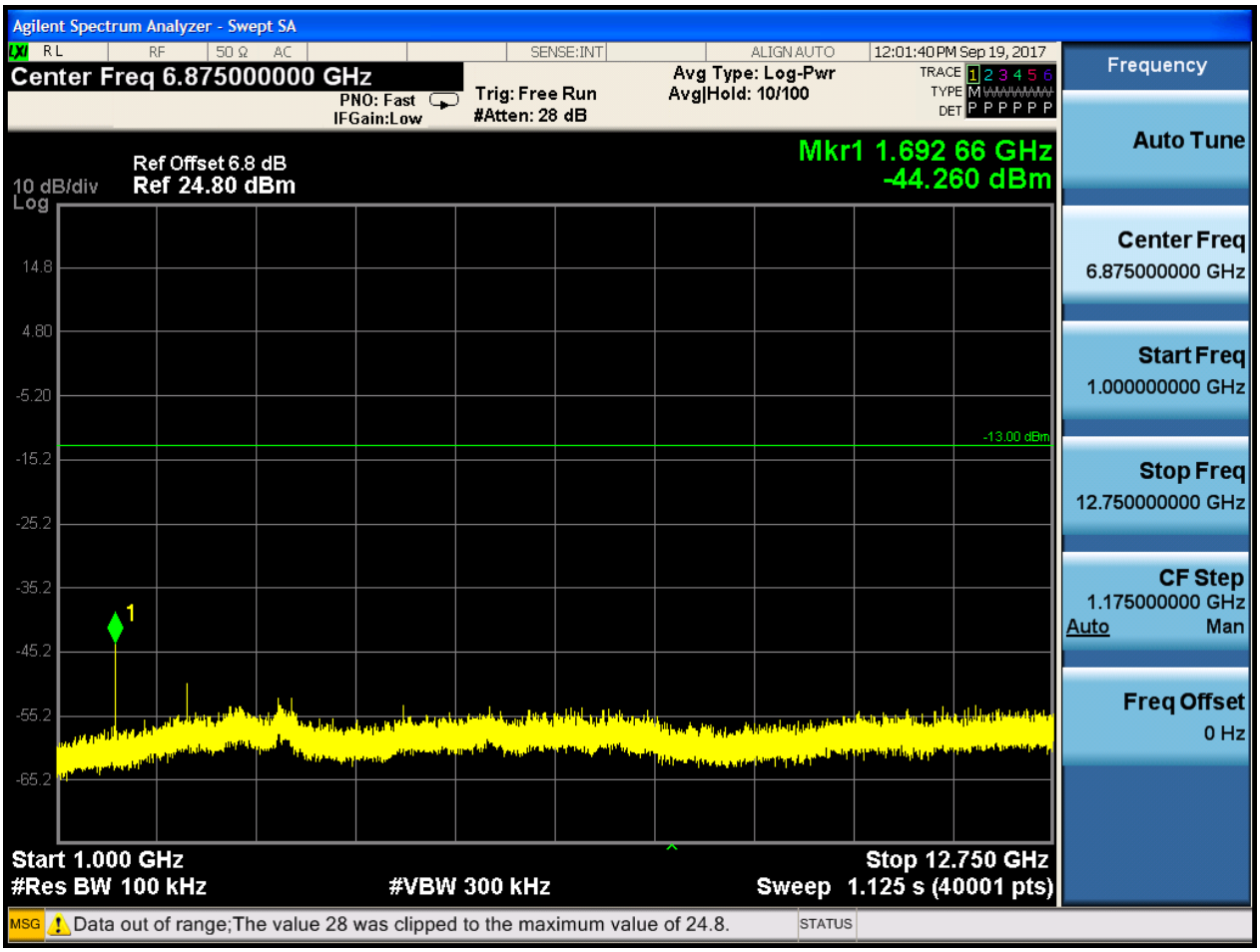

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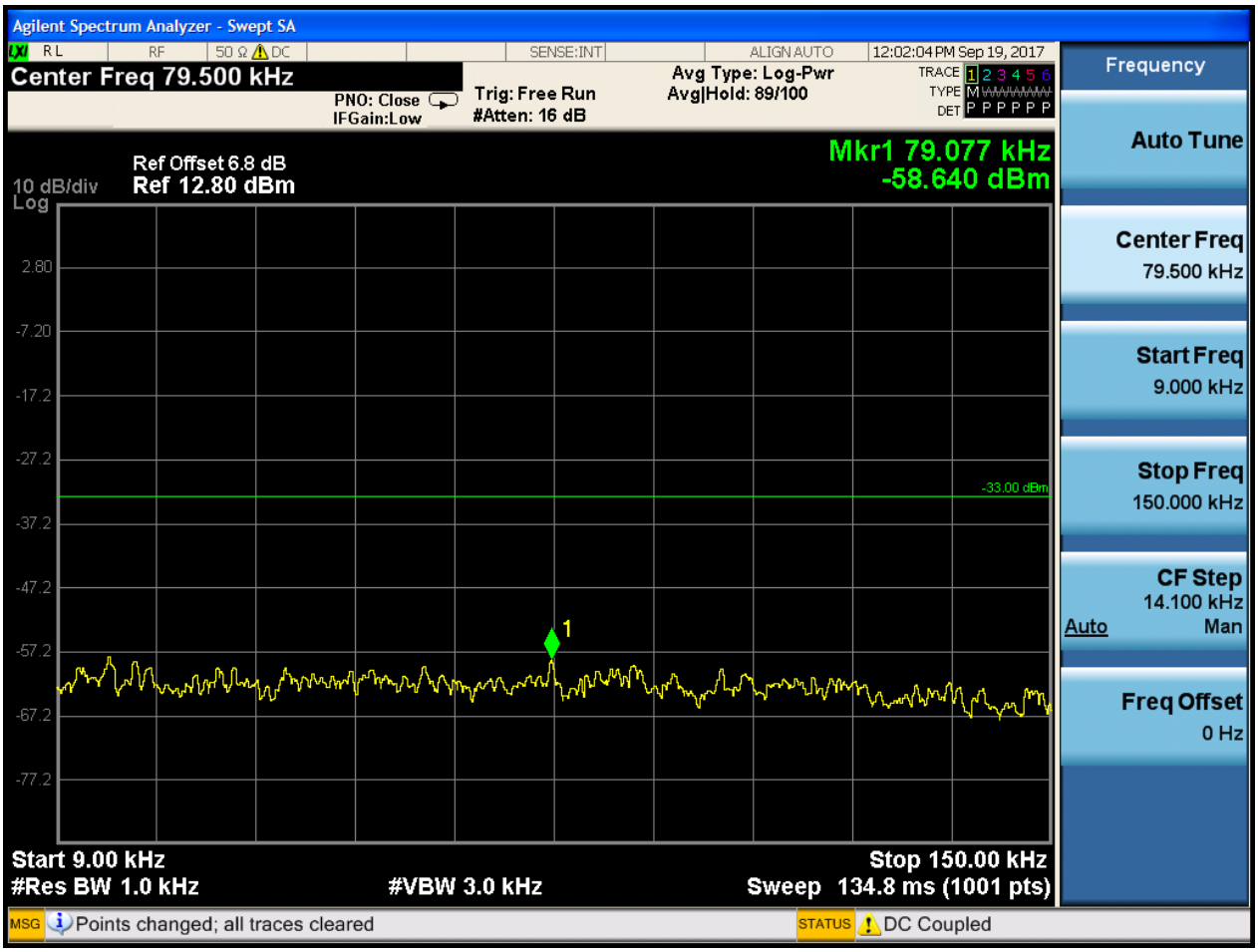
6.1.1.2.3 Test Bandwidth = 5

6.1.1.2.3.1 Test Channel = LCH

6.1.1.2.3.1.1 Test RB = RB1#0



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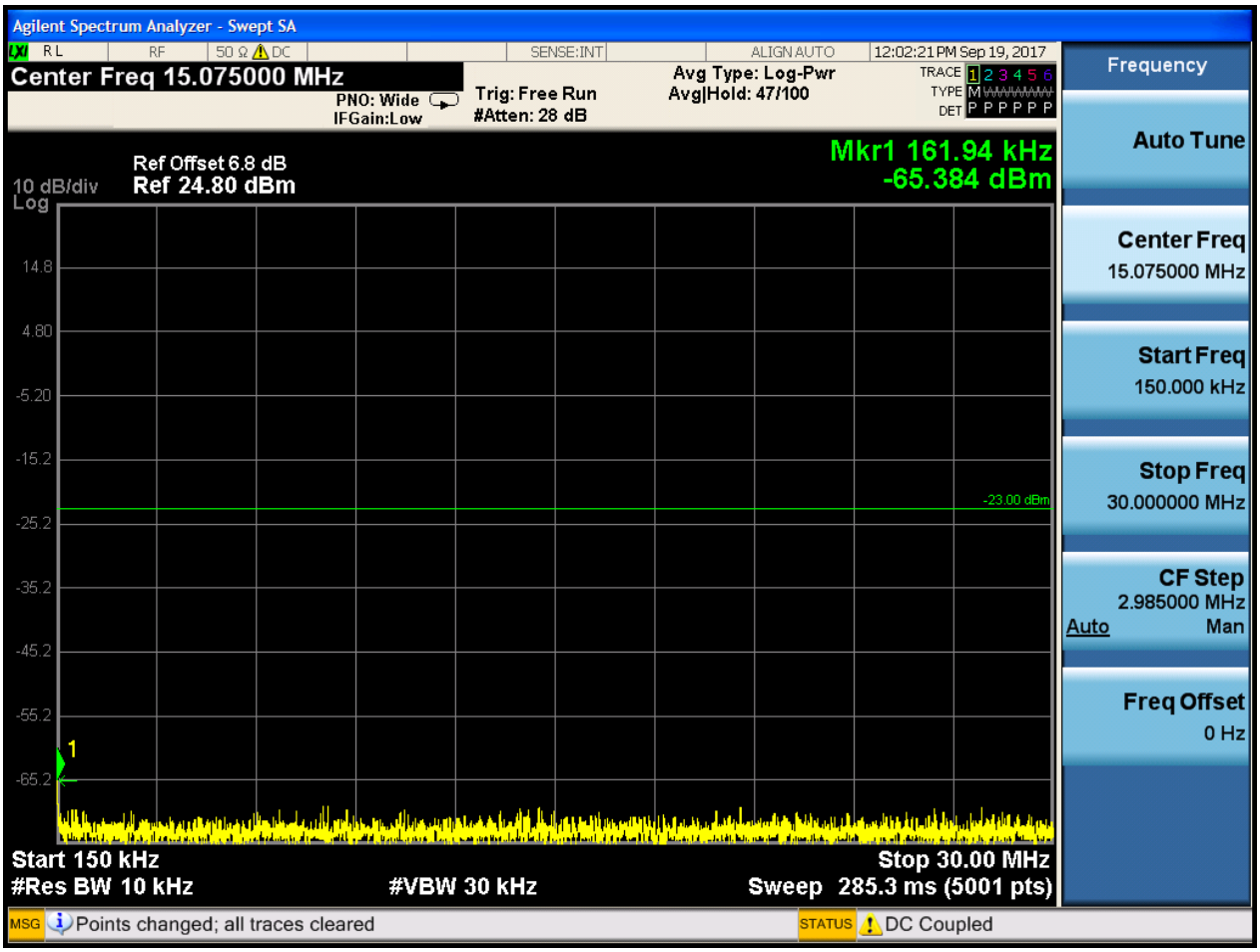

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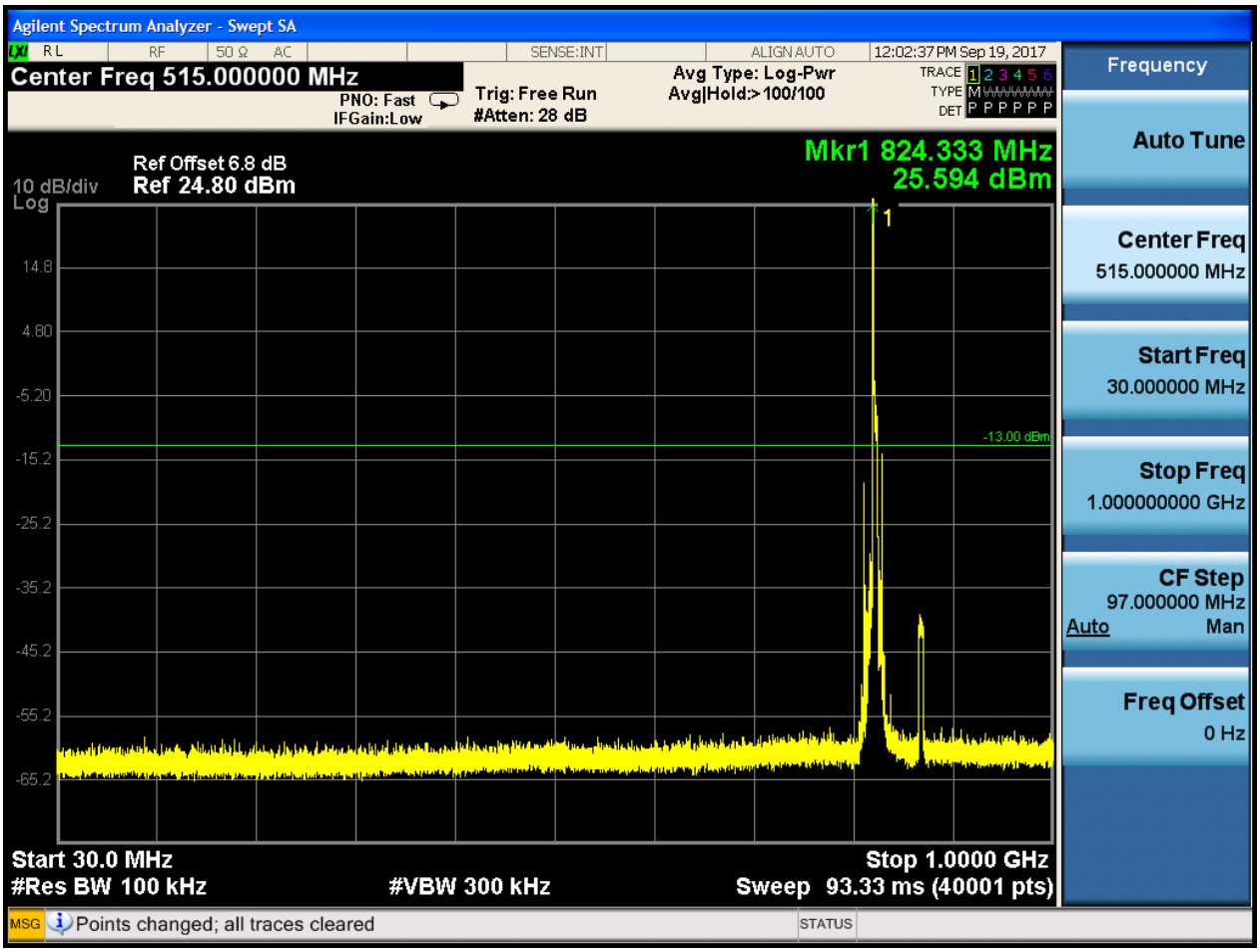

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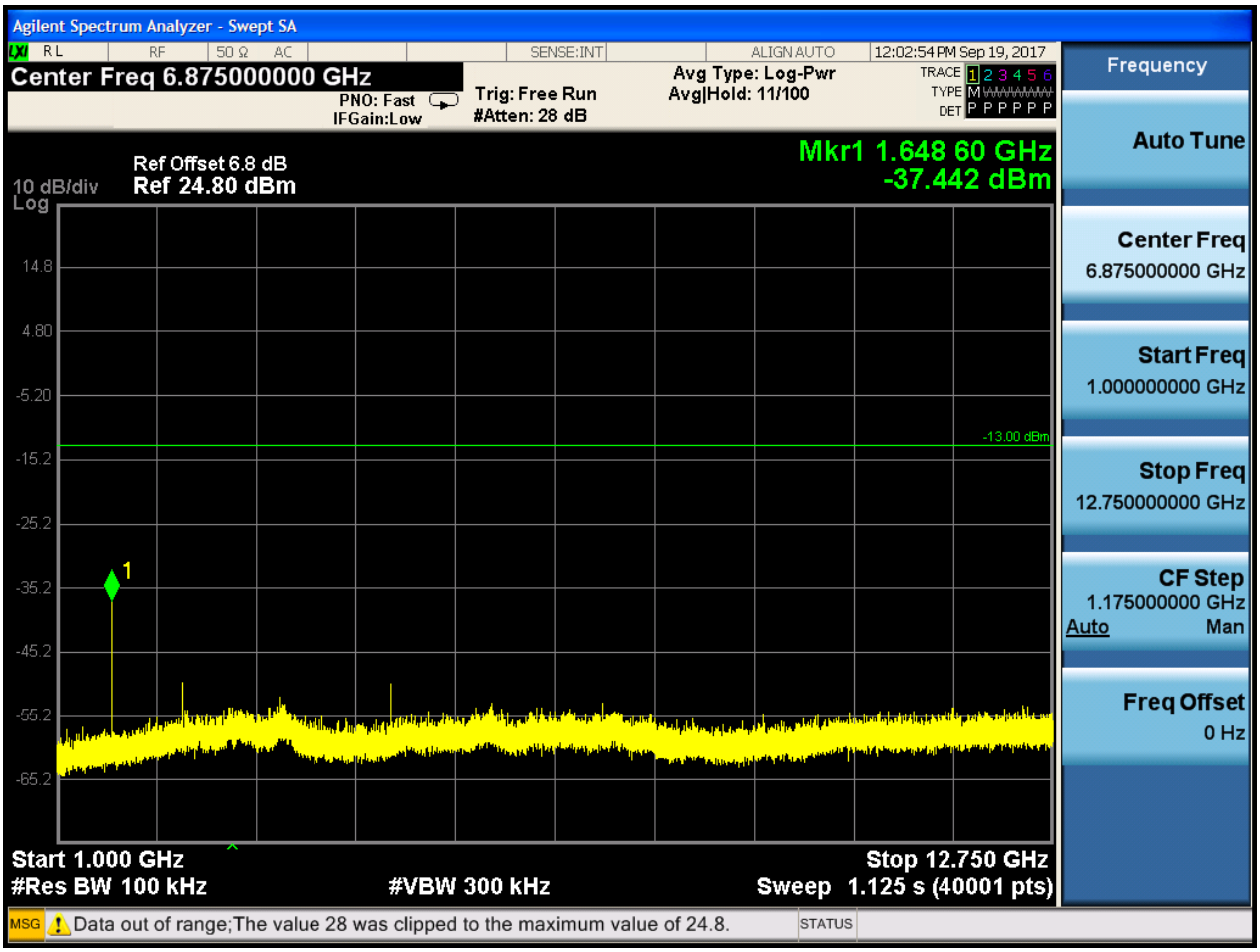

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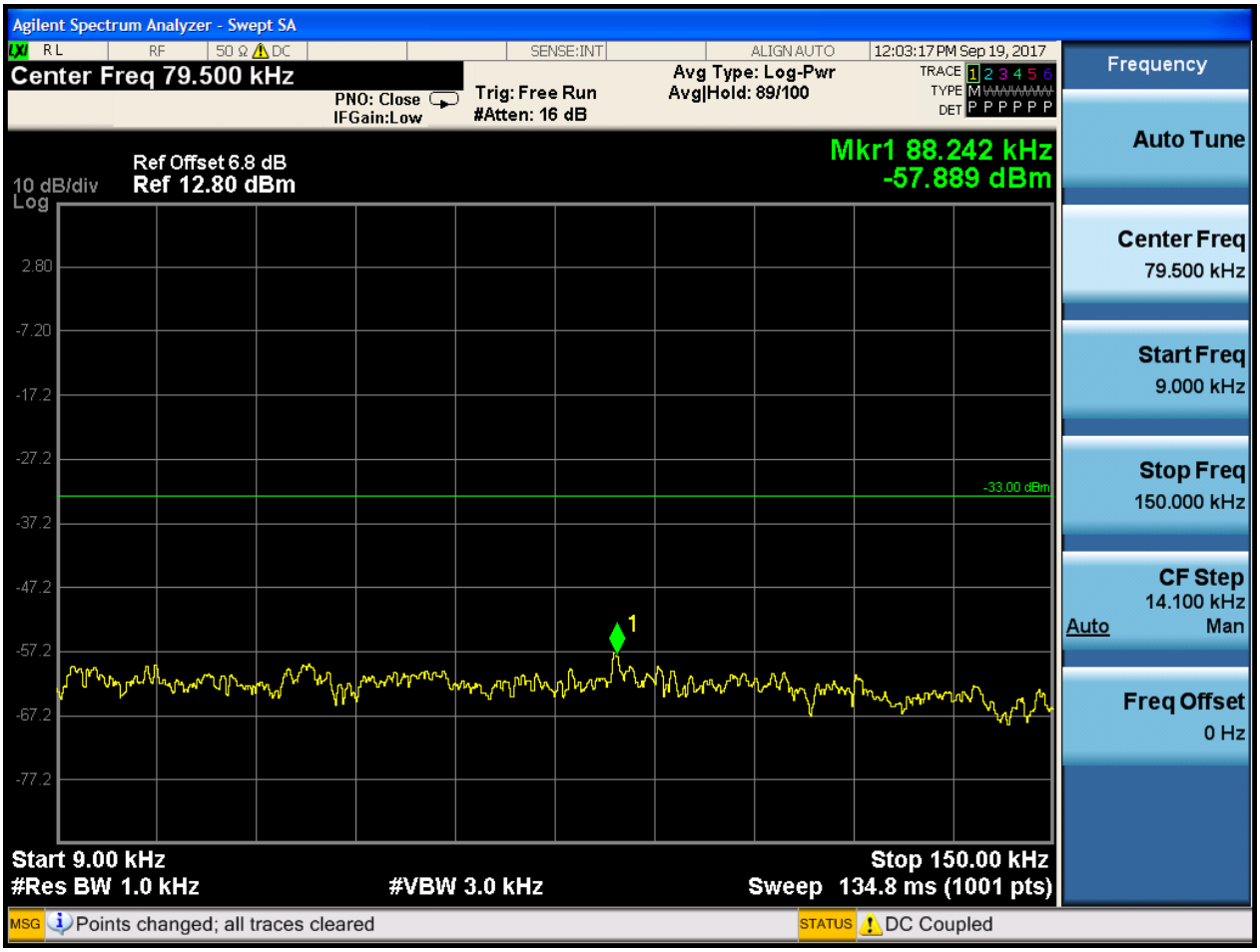
6.1.1.2.3.2 Test Channel = MCH

6.1.1.2.3.2.1 Test RB = RB1#0



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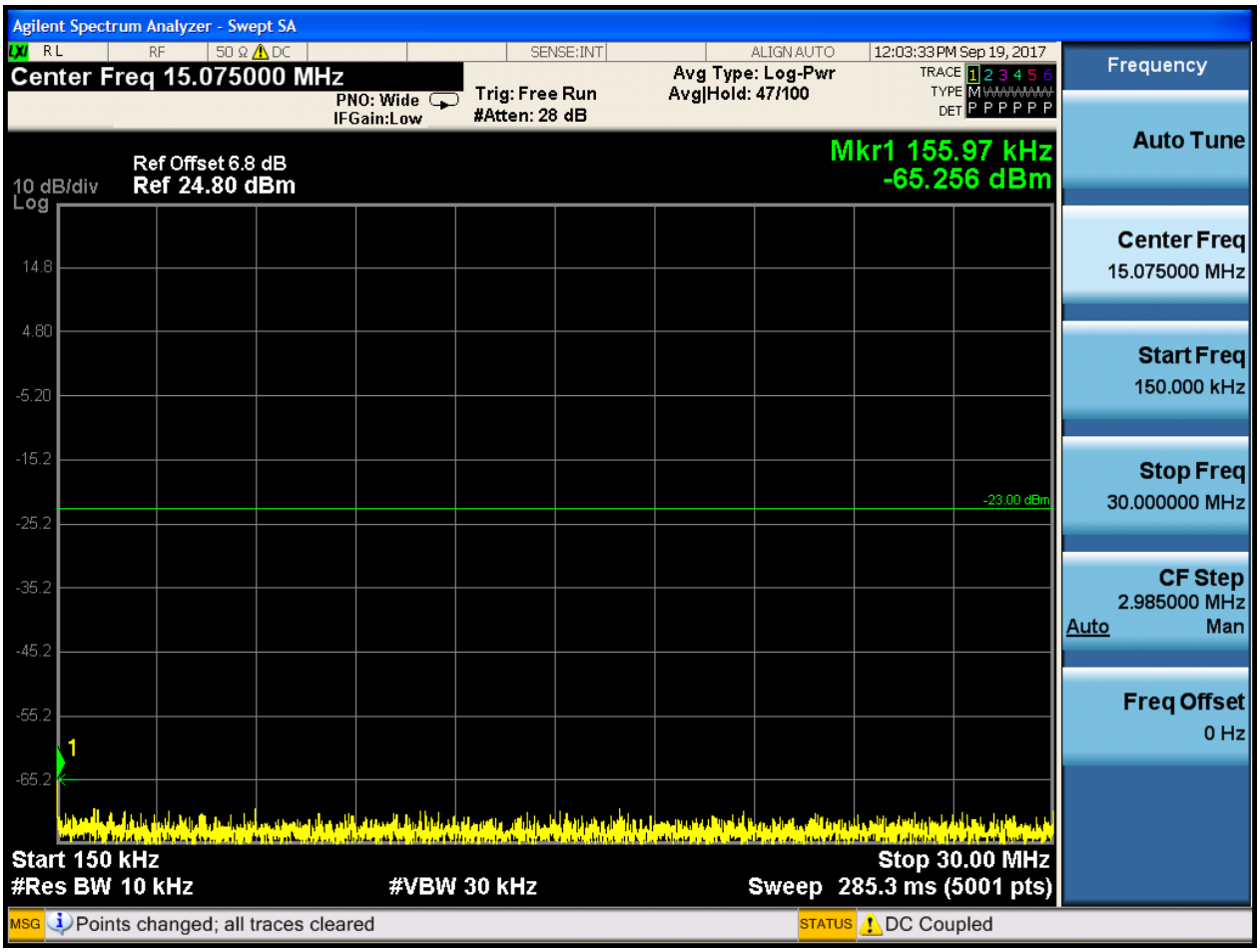

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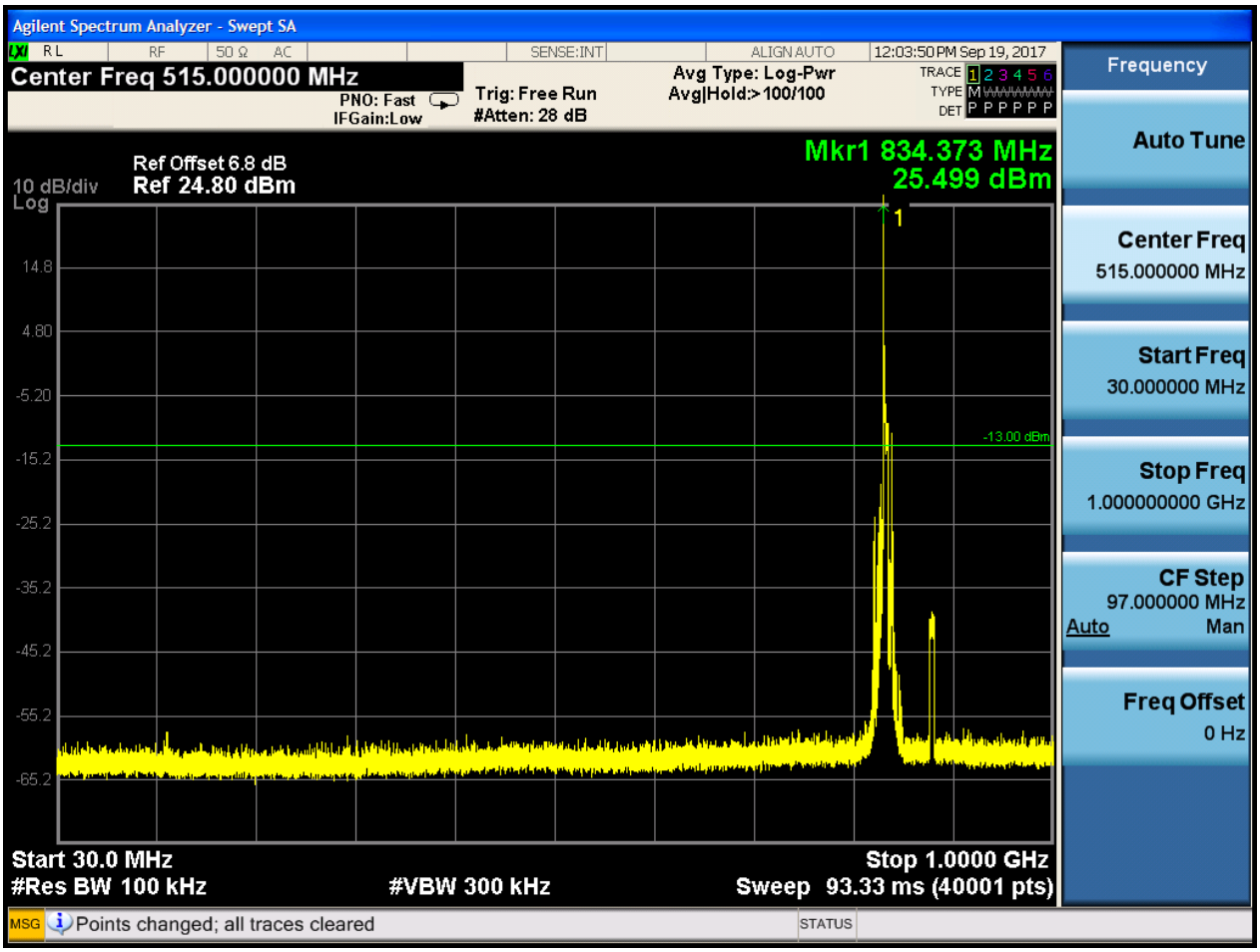

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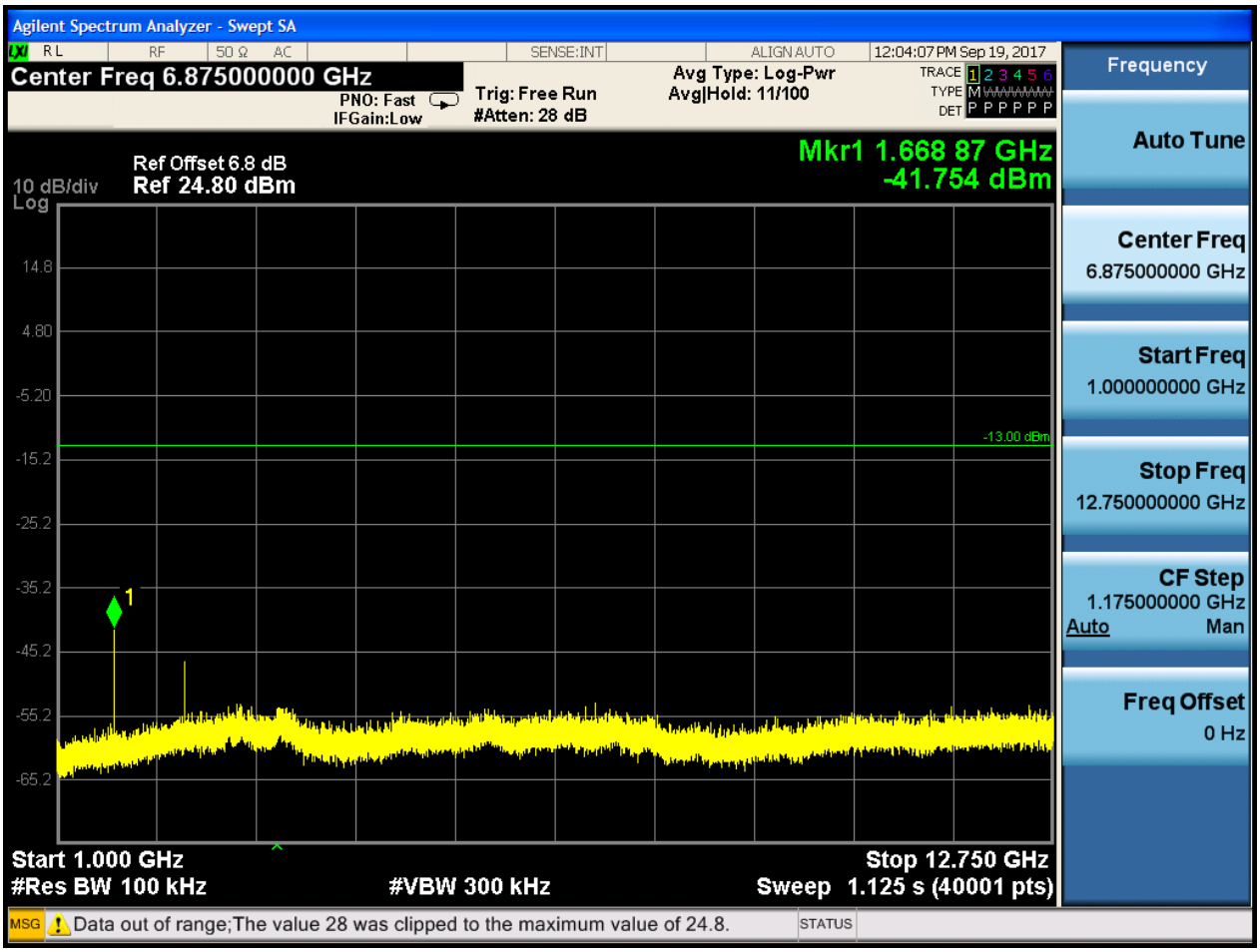

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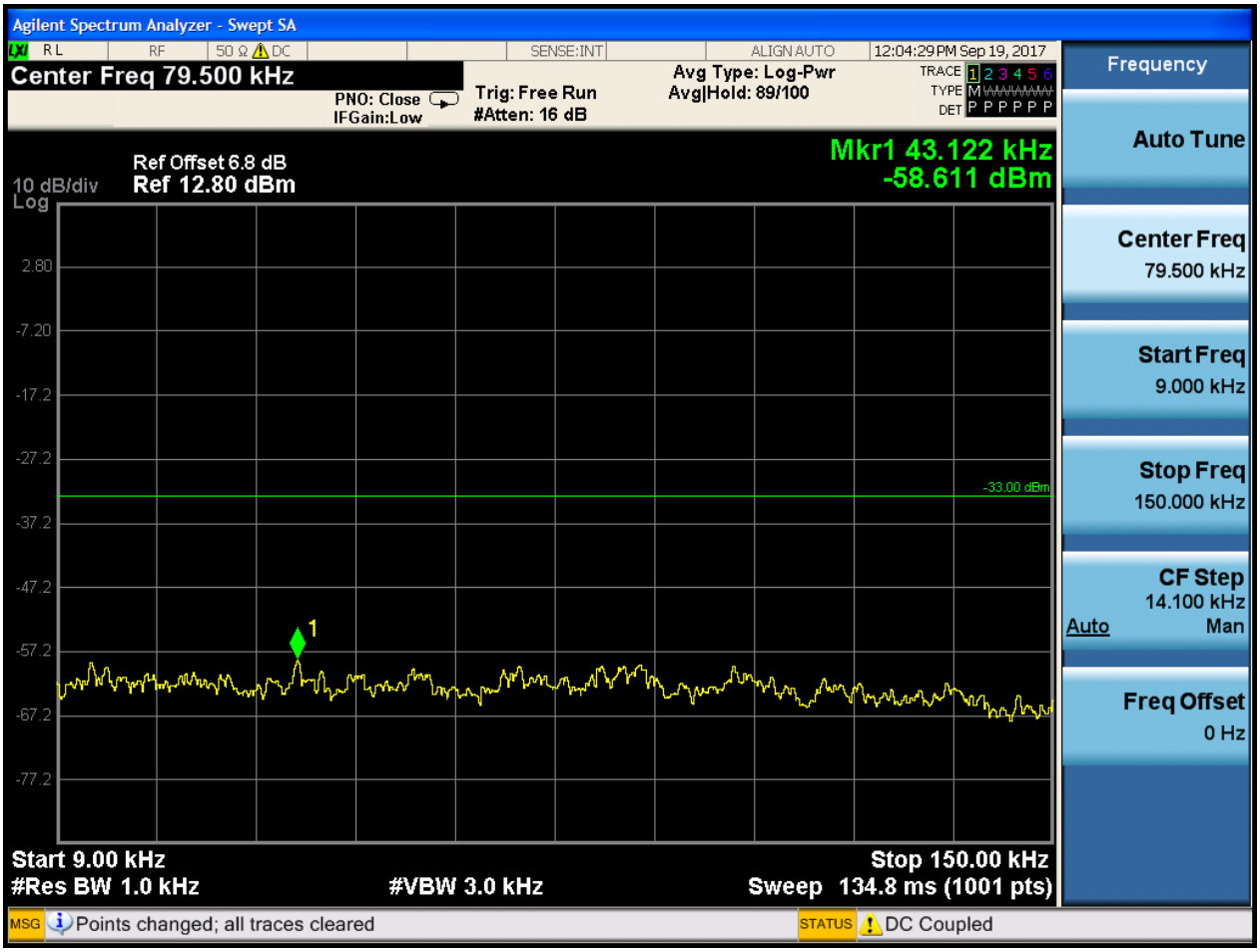
6.1.1.2.3.3 Test Channel = HCH

6.1.1.2.3.3.1 Test RB = RB1#0



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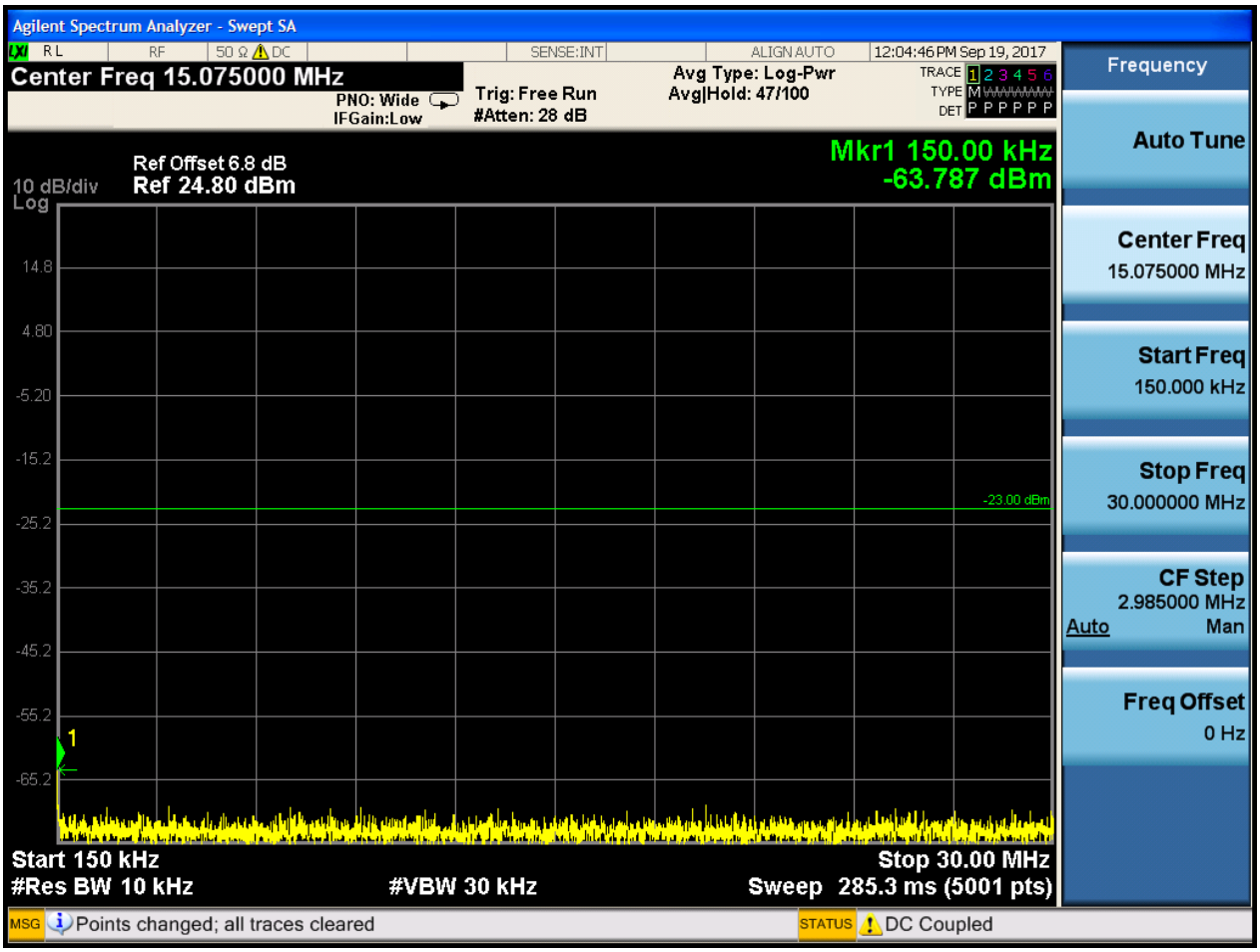

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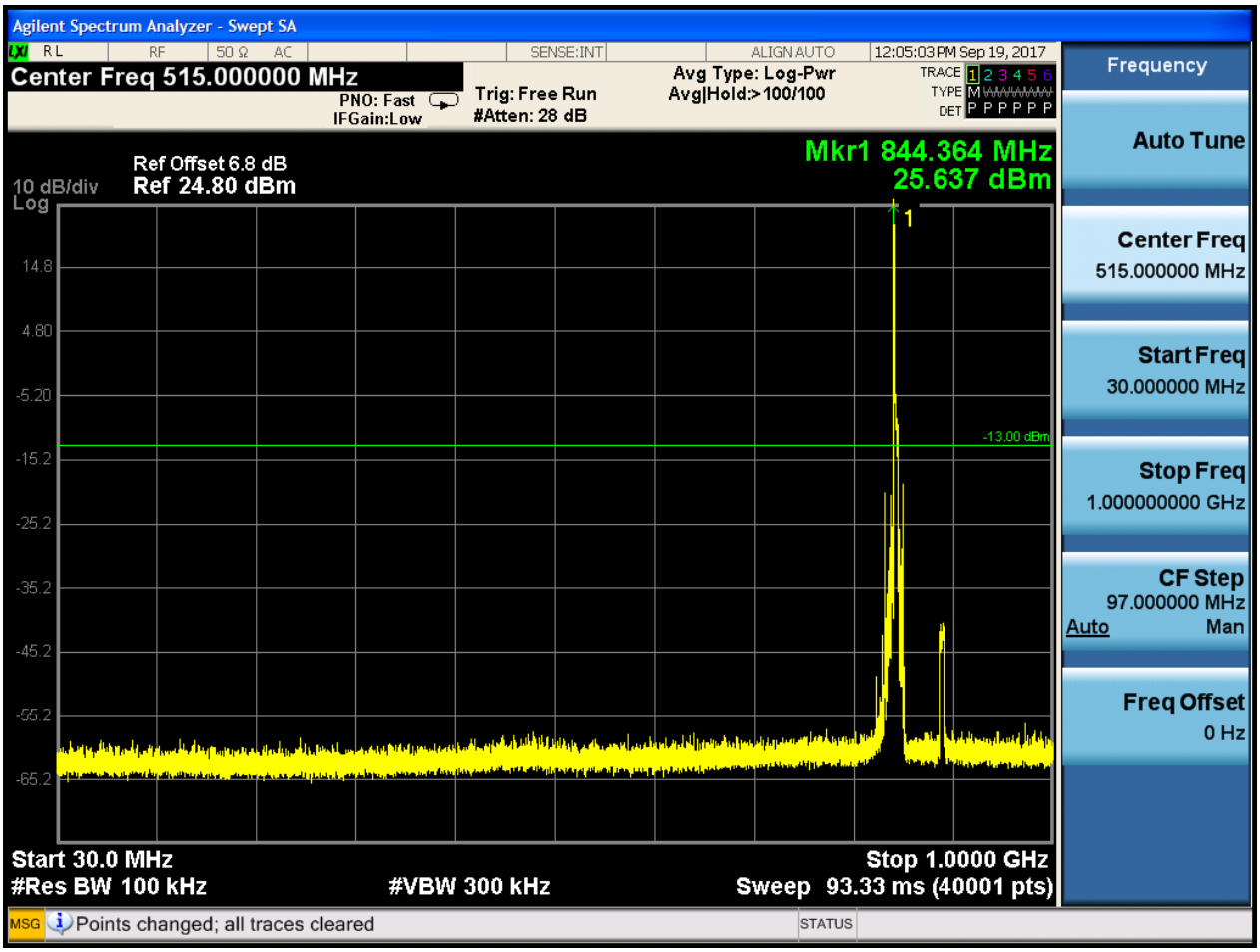

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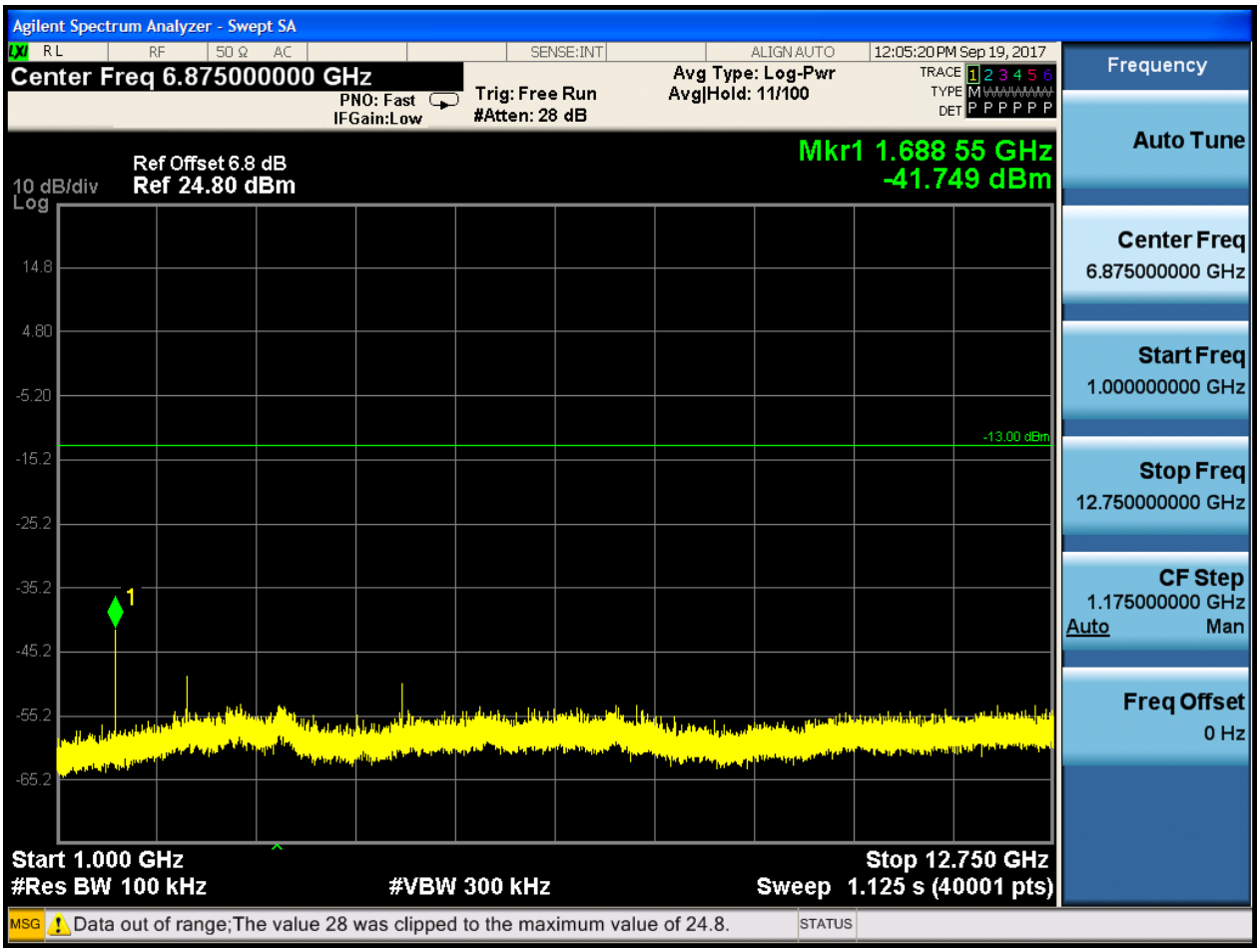

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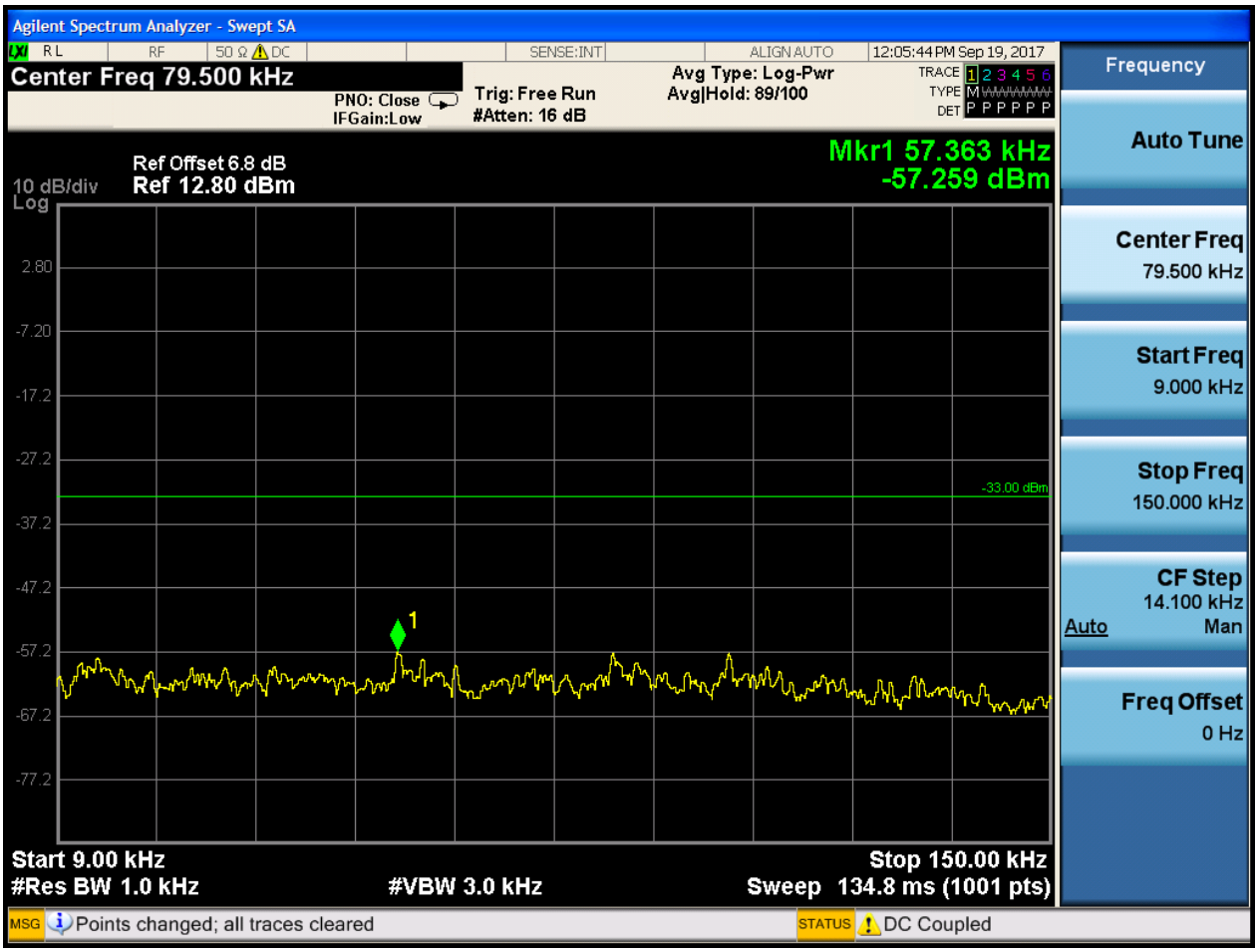
6.1.1.2.4 Test Bandwidth = 10

6.1.1.2.4.1 Test Channel = LCH

6.1.1.2.4.1.1 Test RB = RB1#0



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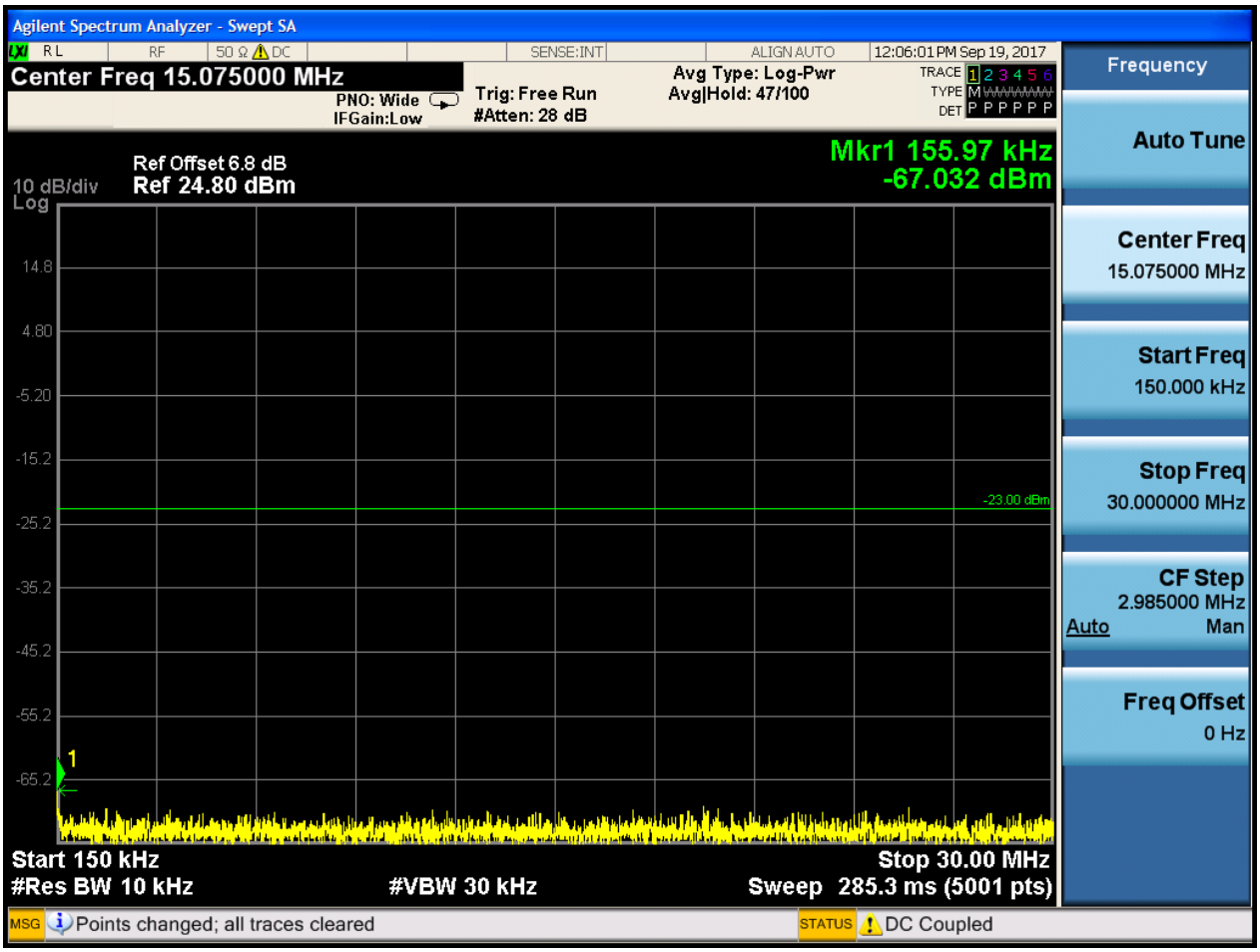

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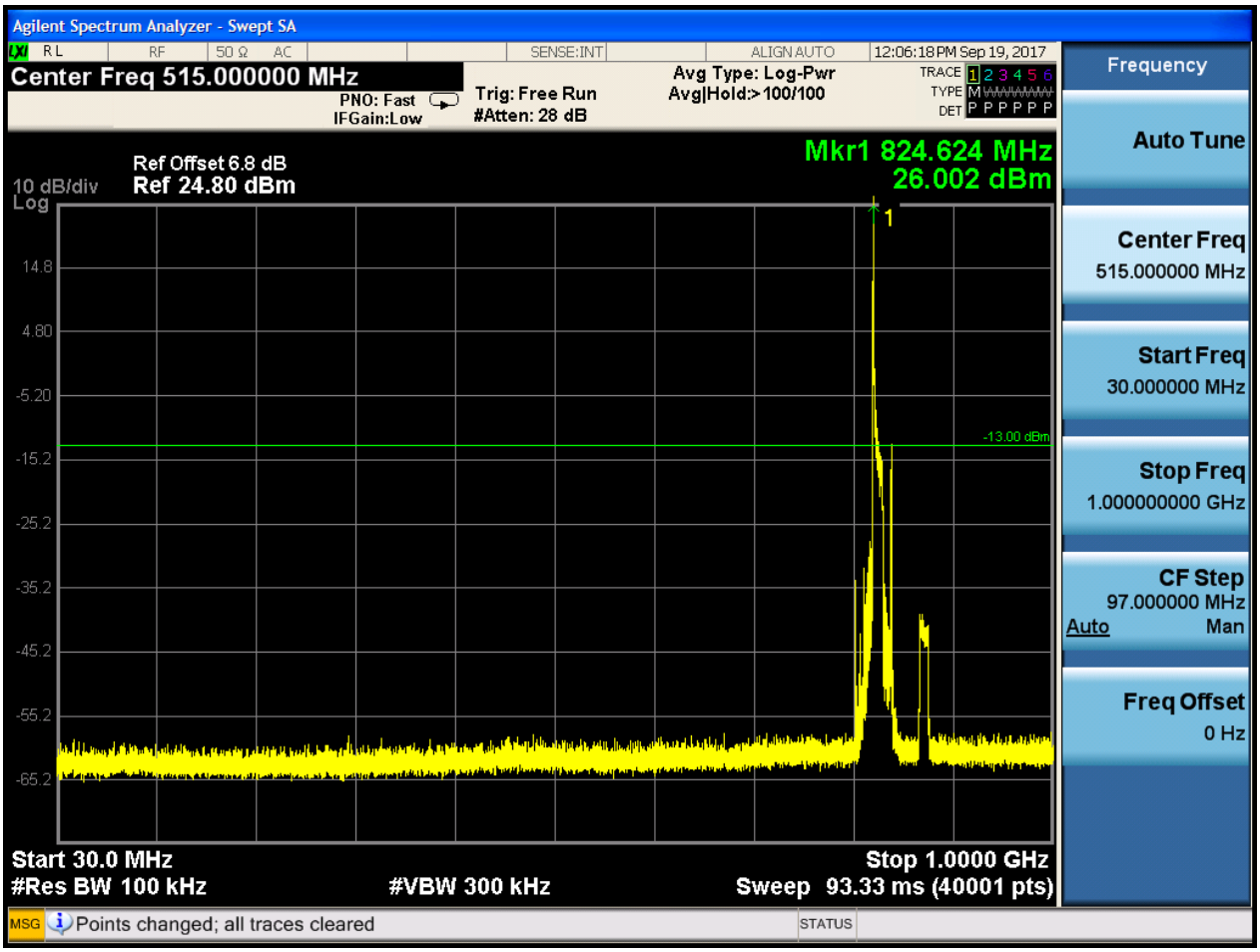

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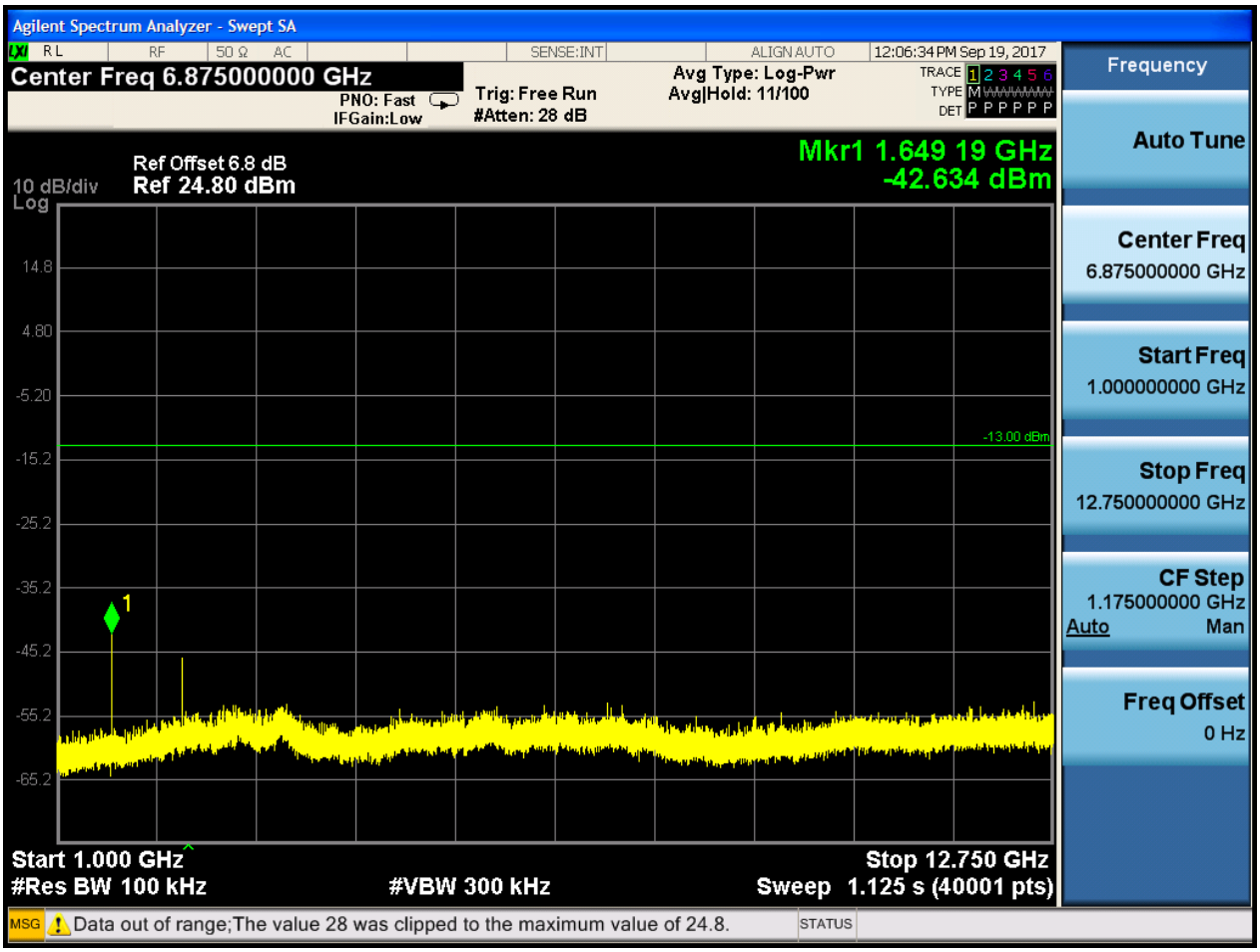

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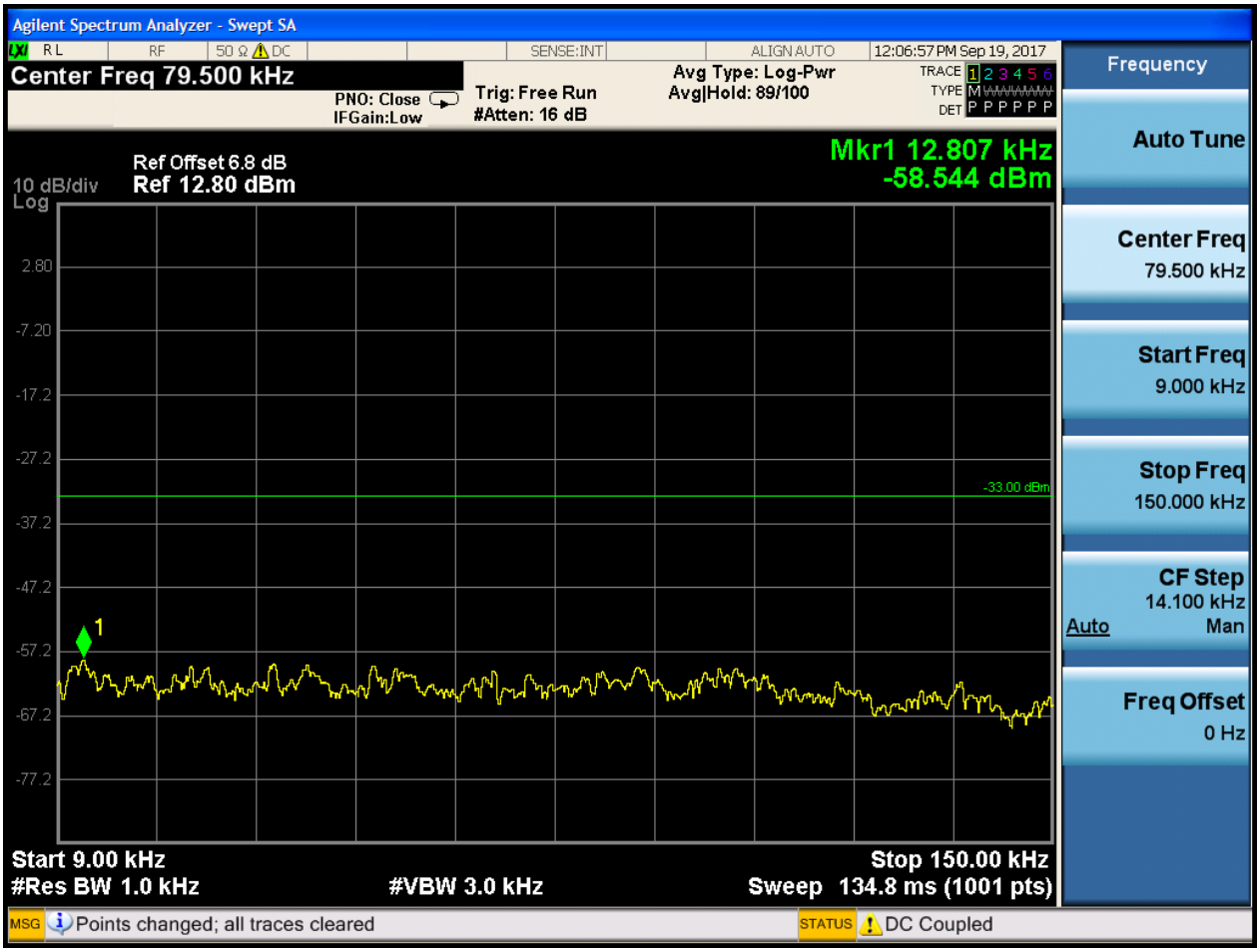
6.1.1.2.4.2 Test Channel = MCH

6.1.1.2.4.2.1 Test RB = RB1#0



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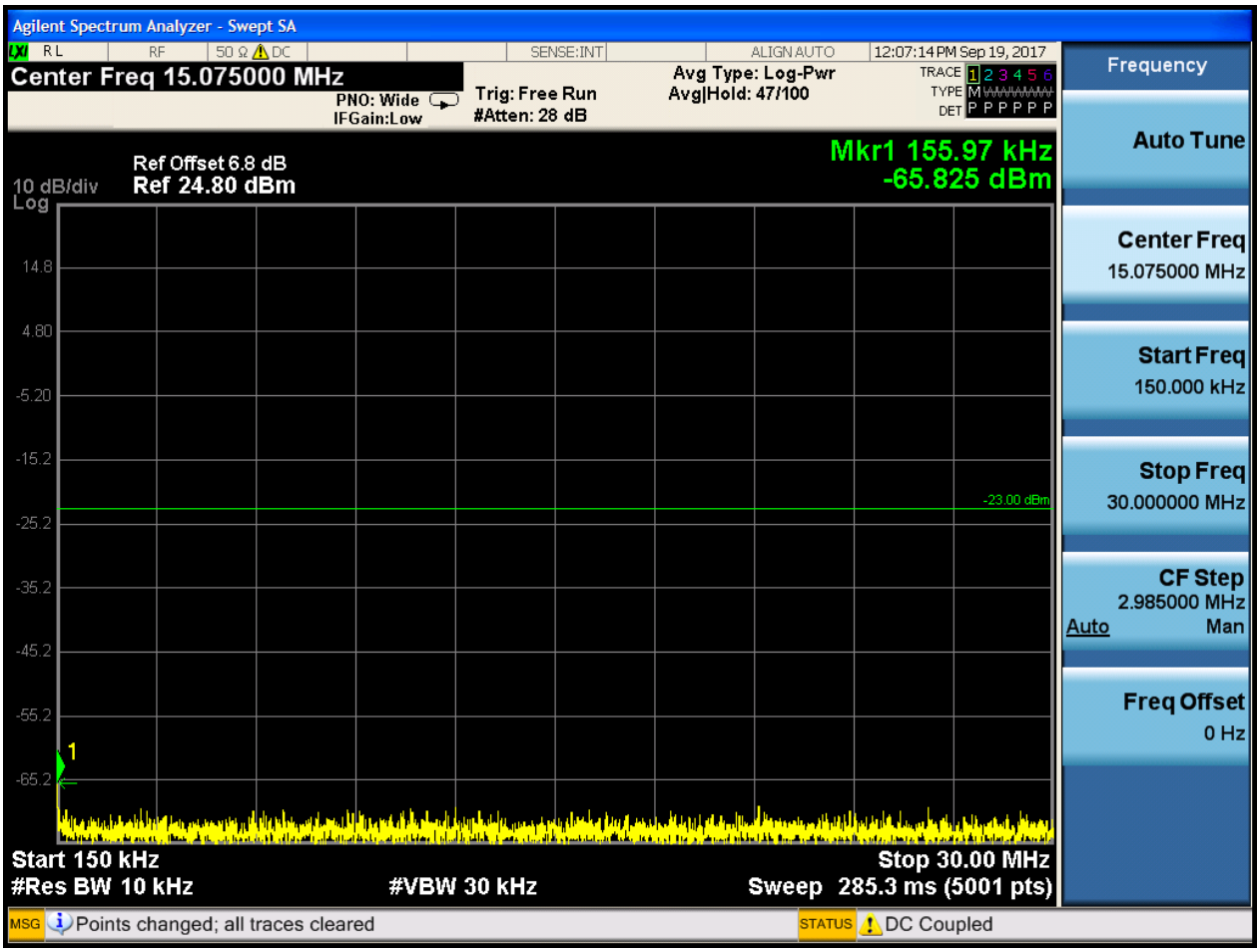

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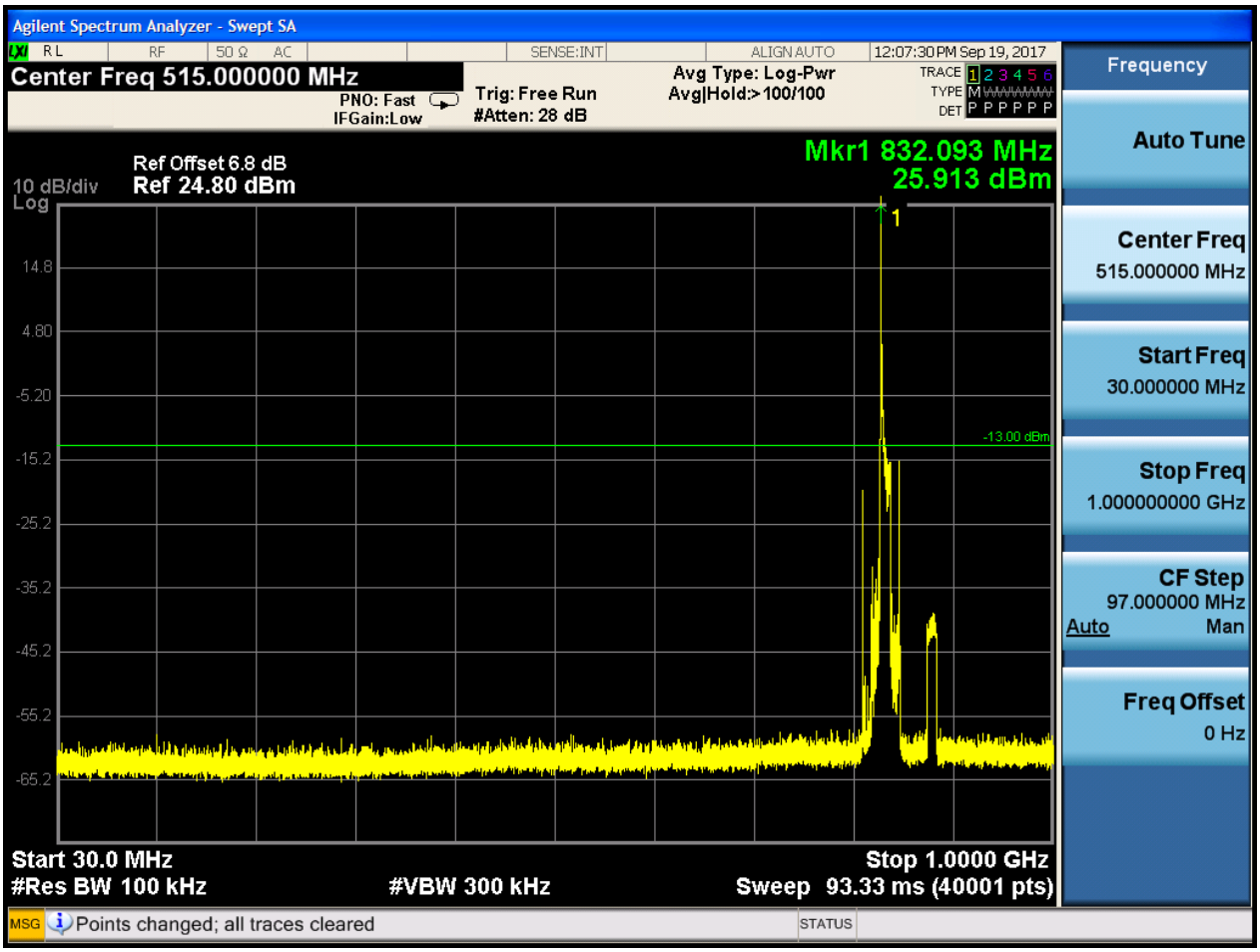

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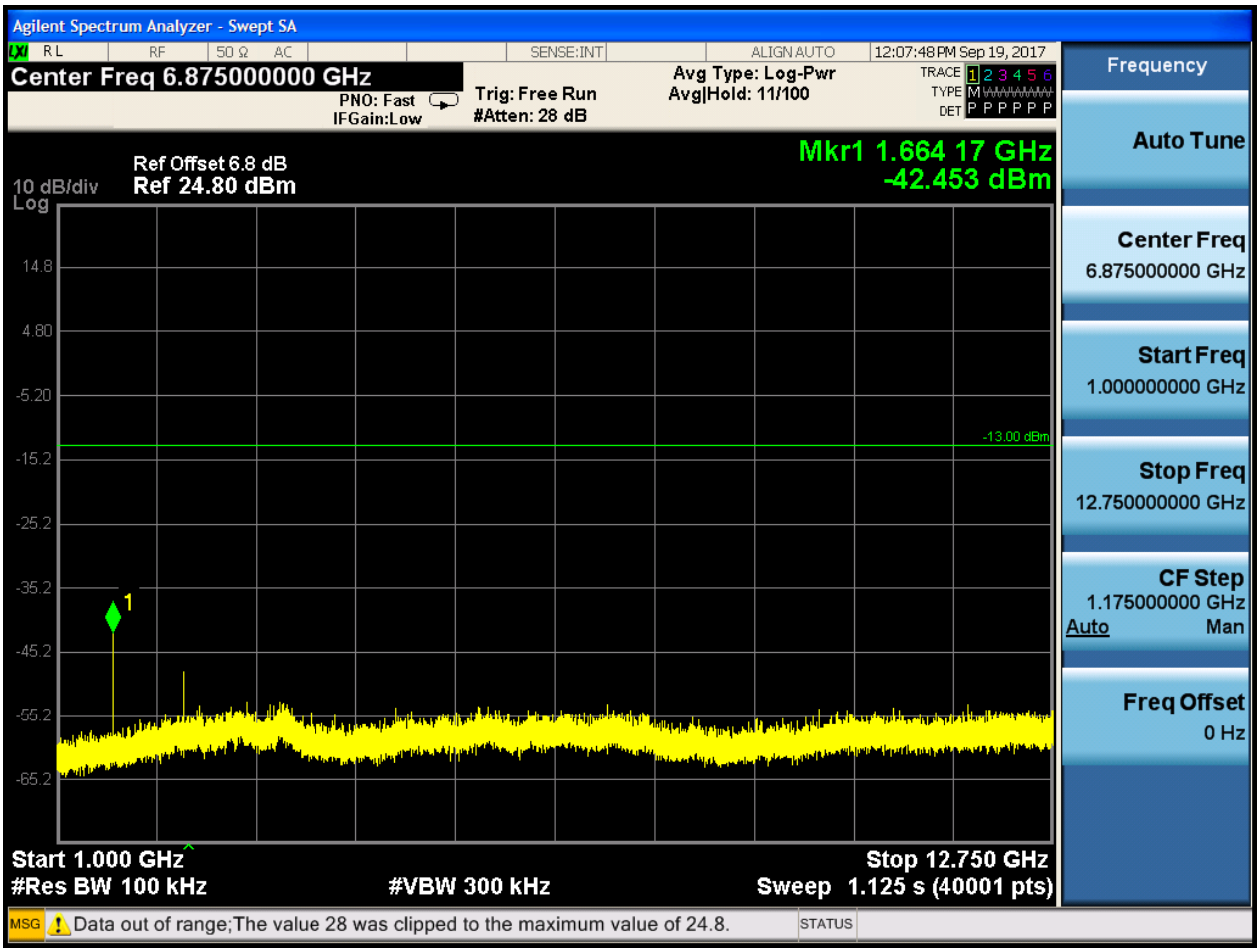

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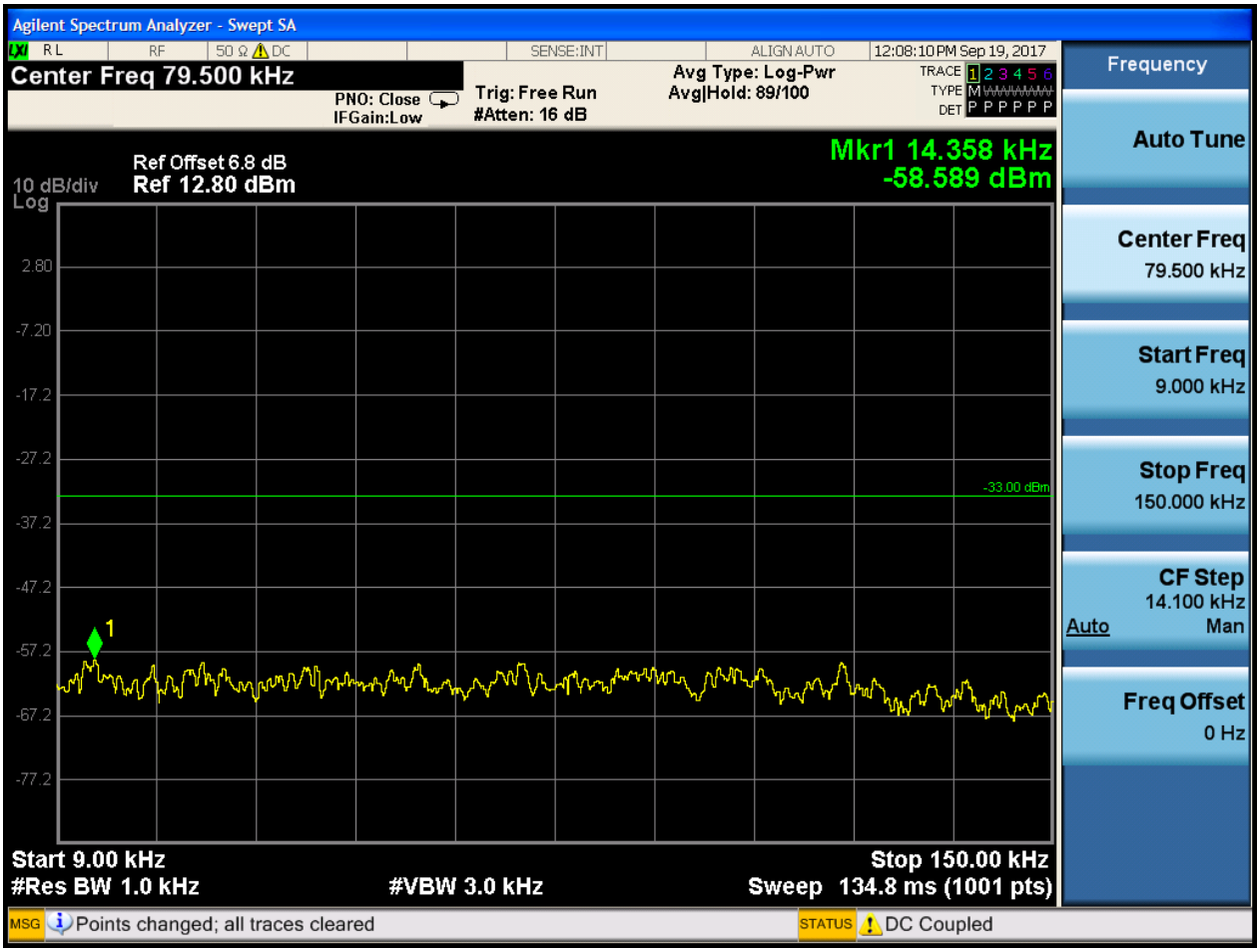
6.1.1.2.4.3 Test Channel = HCH

6.1.1.2.4.3.1 Test RB = RB1#0



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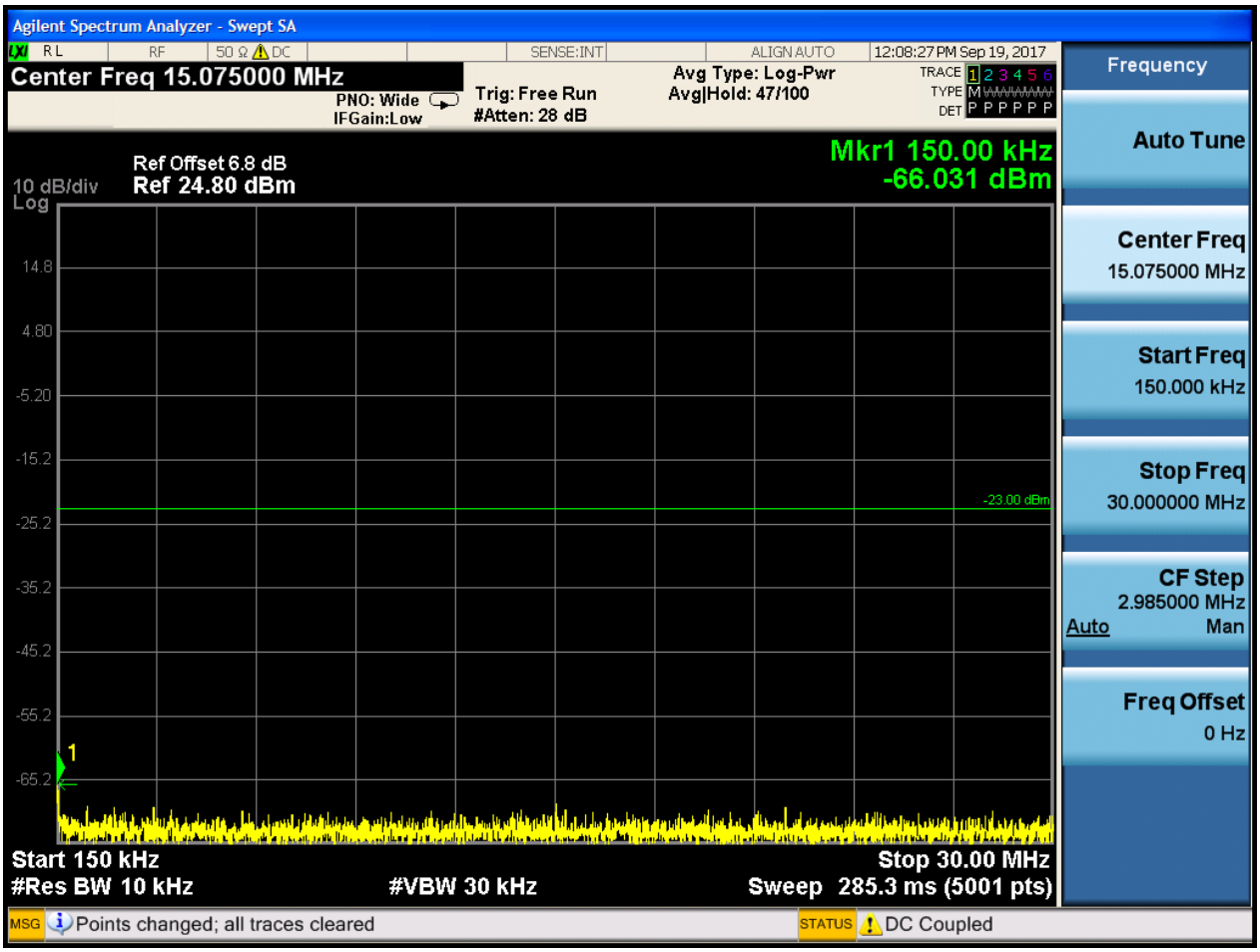

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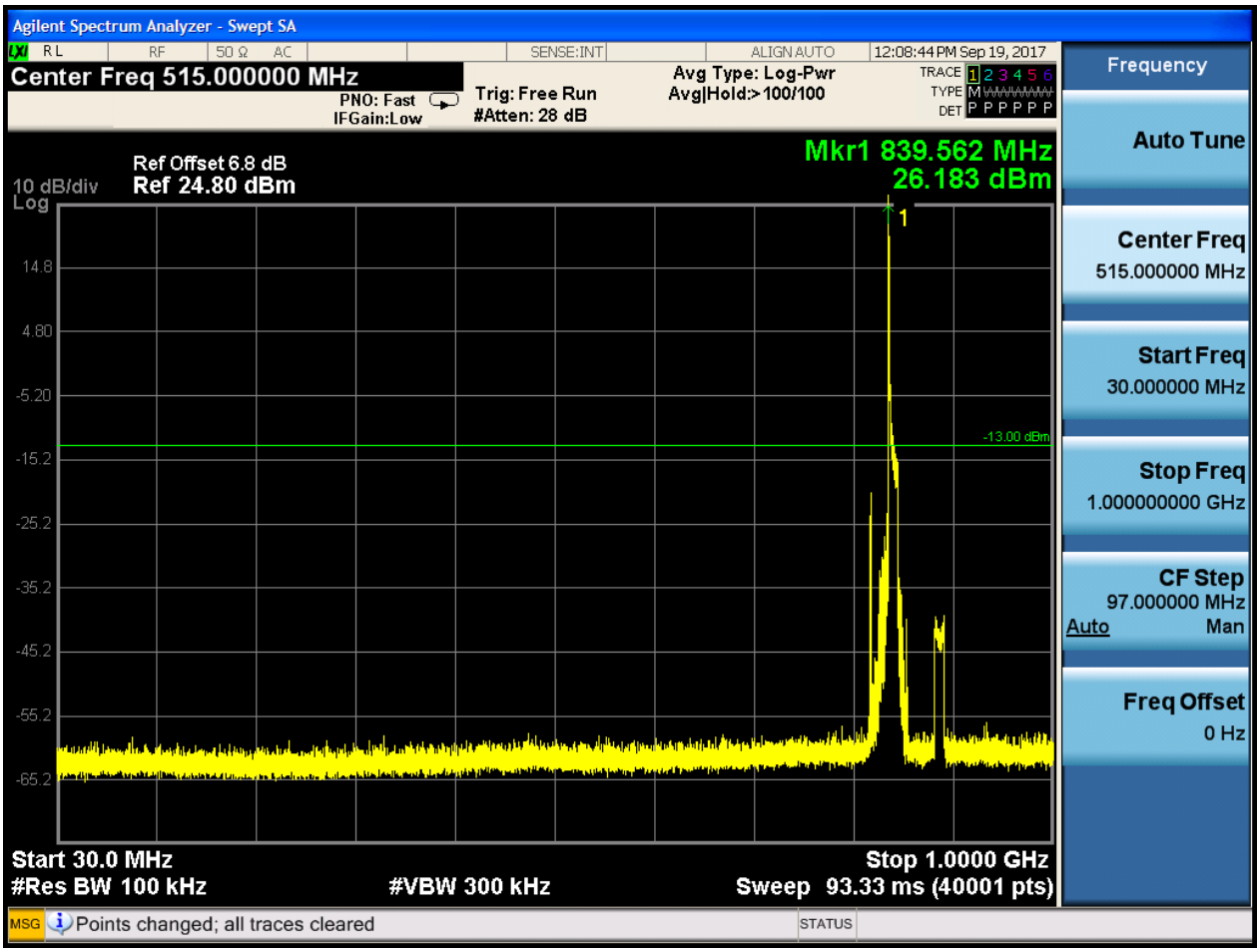

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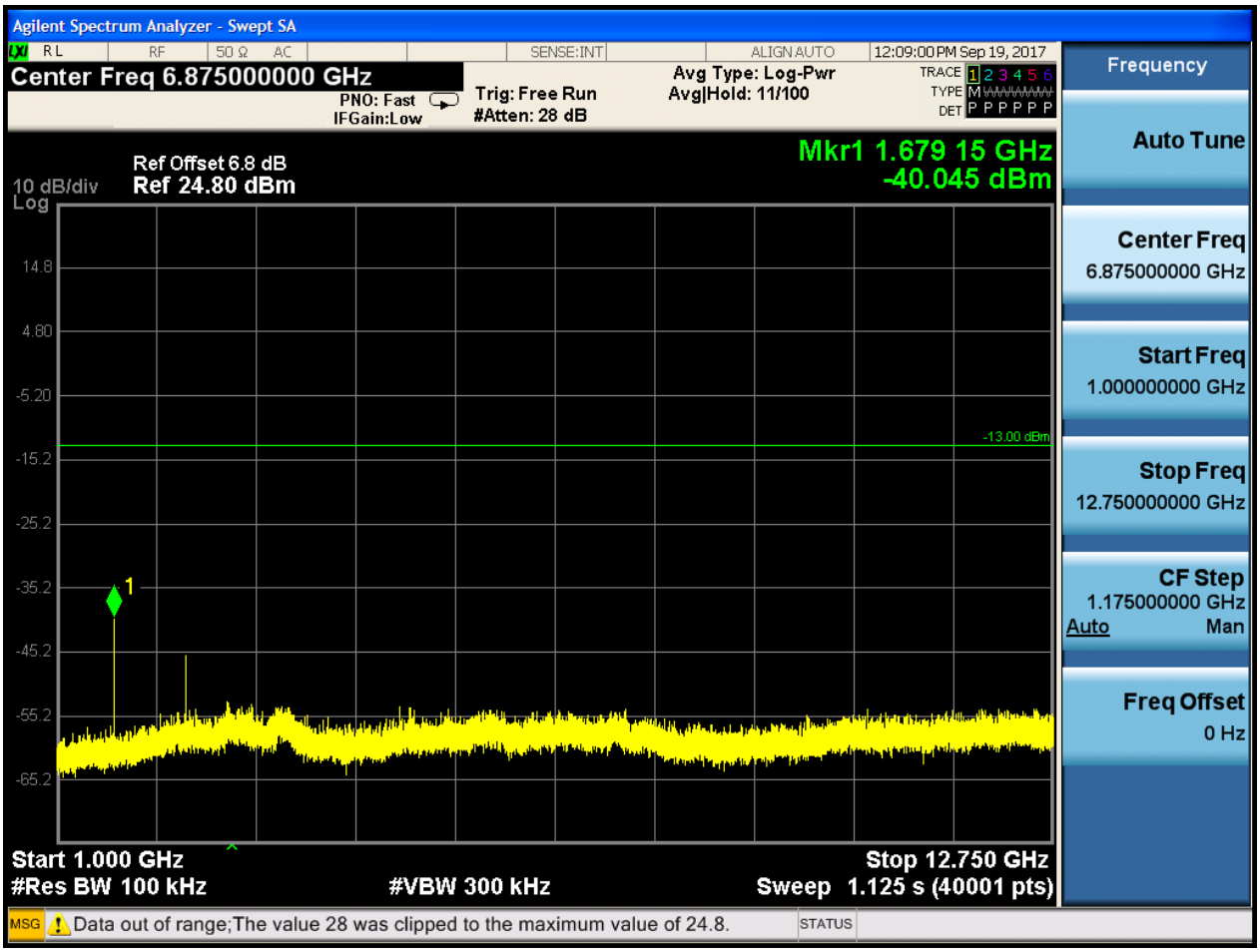

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7Appendix_G: Field Strength of Spurious Radiation

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

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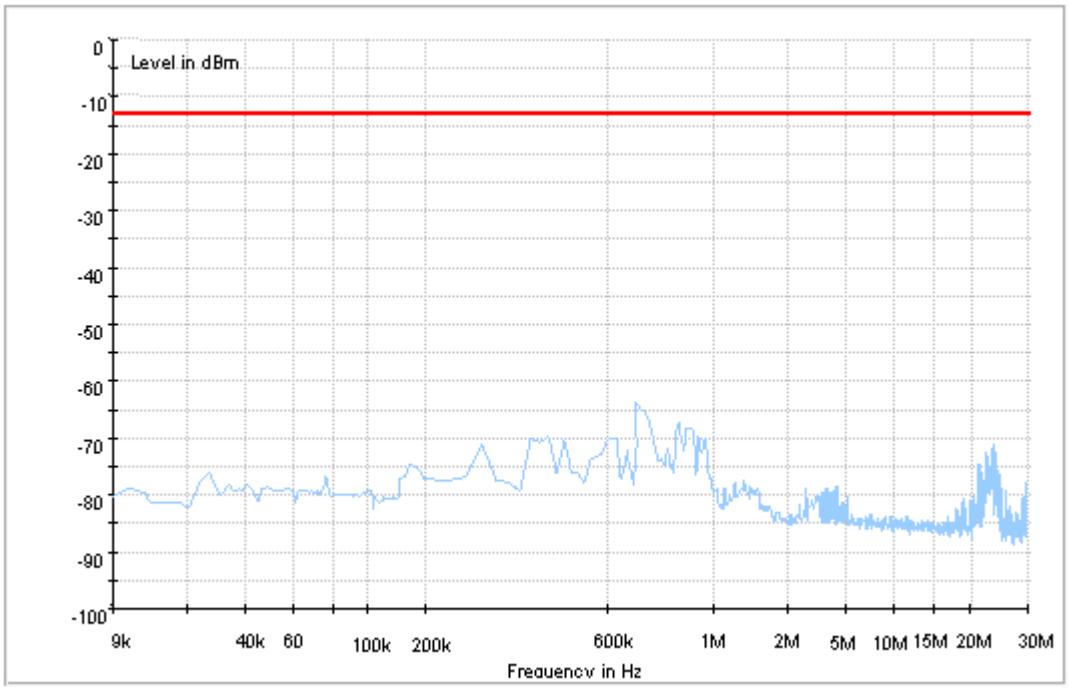
Part I - Test Plots

7.1 For LTE

7.1.1 Test Band = BAND5_ANT1

7.1.1.1 Test Bandwidth = 1.4



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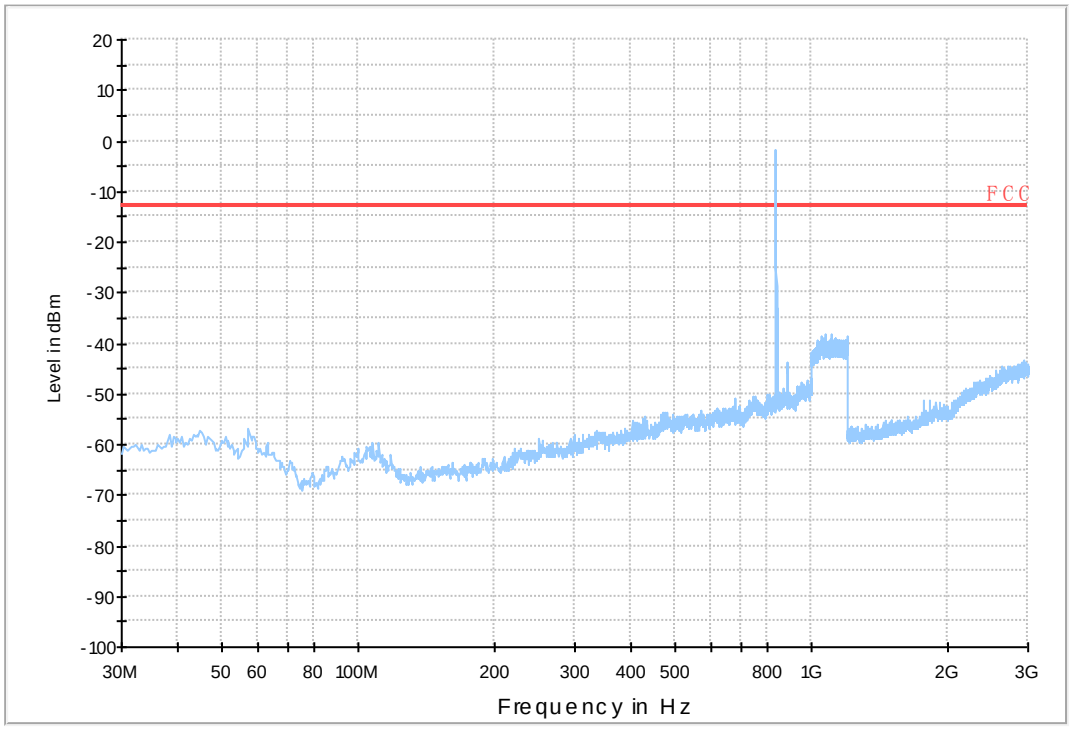
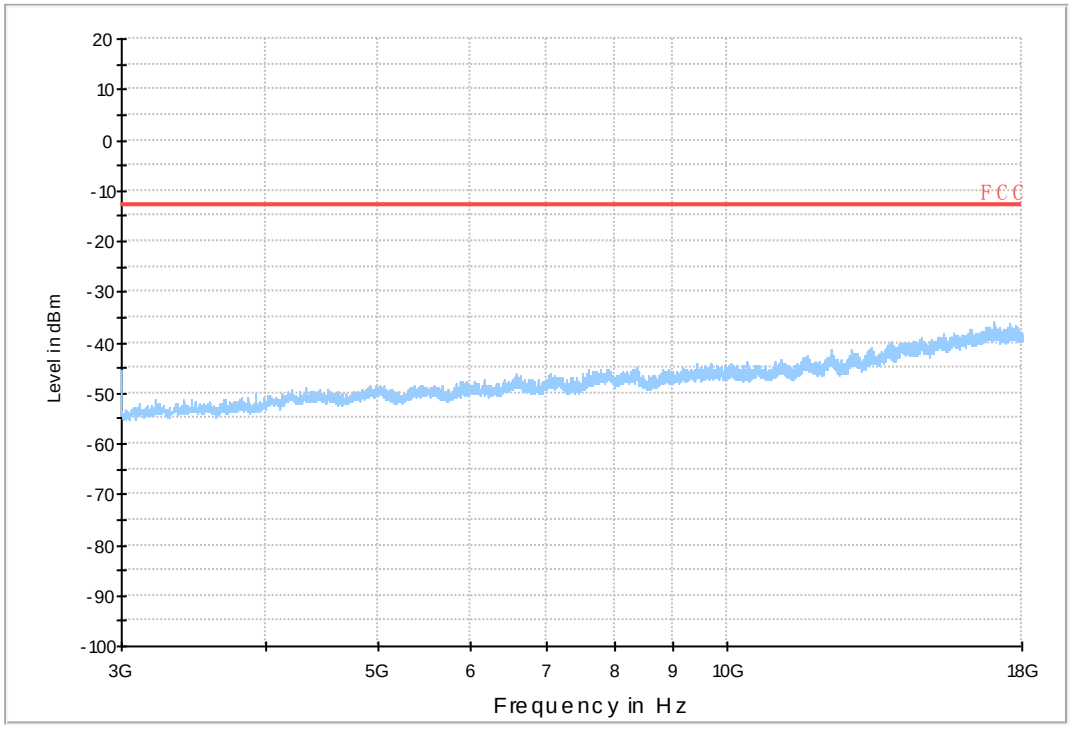


Copy of RSE-TX-DIRECTOR BELOW 1G_H



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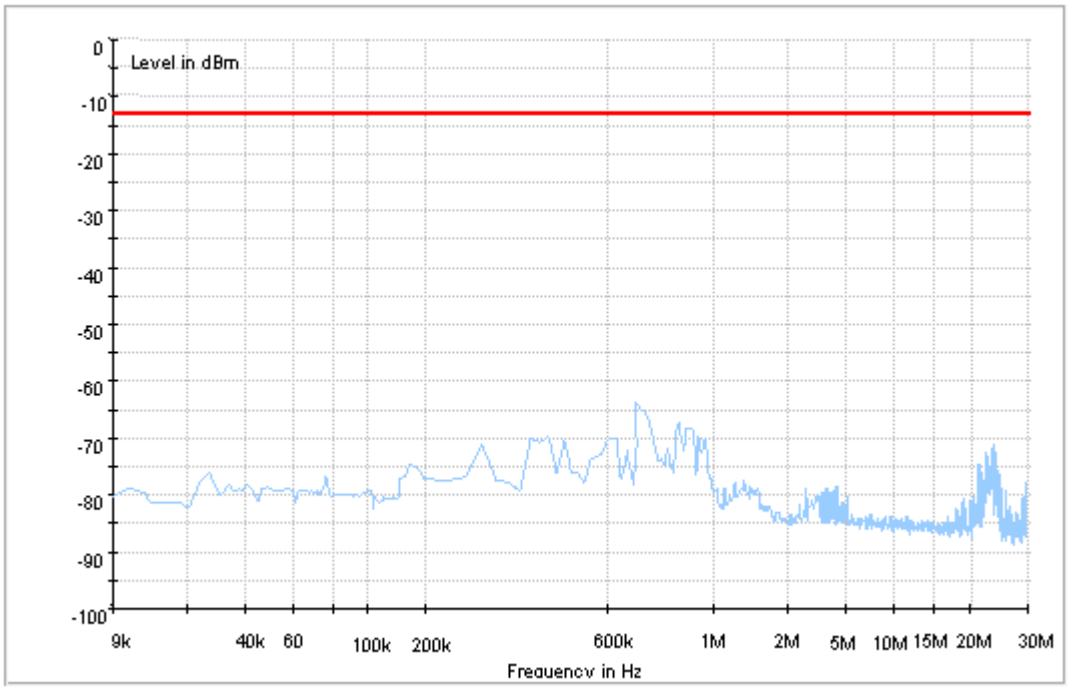
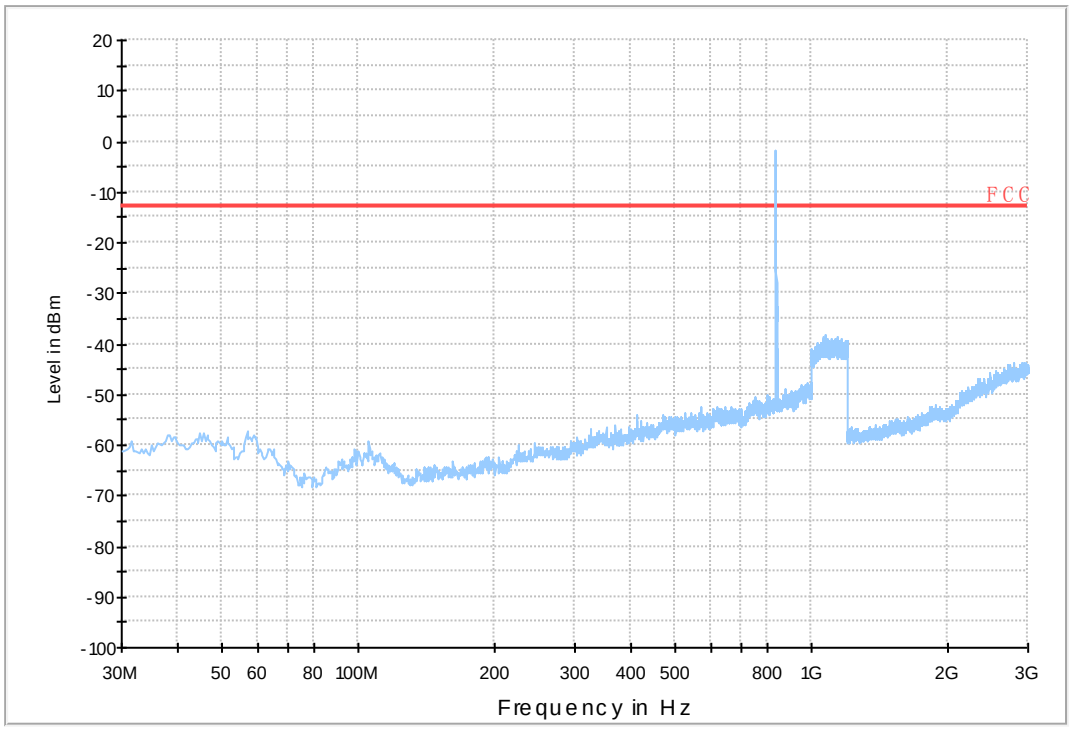
7.1.1.2 Test Bandwidth = 10



Copy of RSE-TX-DIRECTOR BELOW 1G_L



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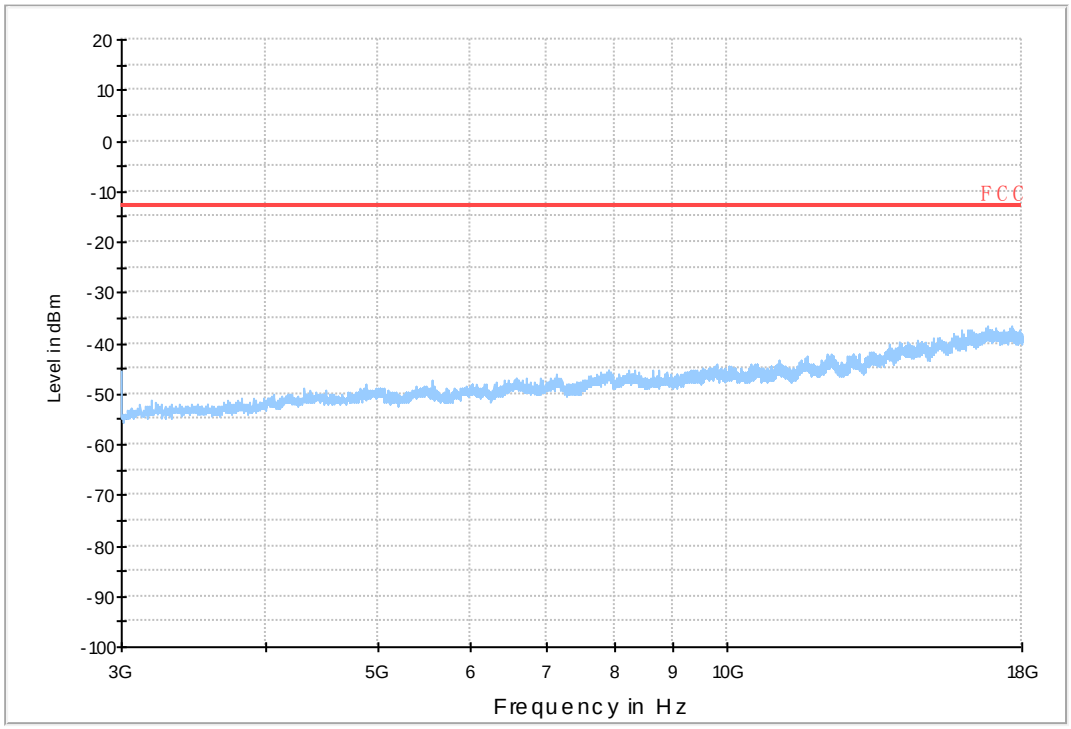
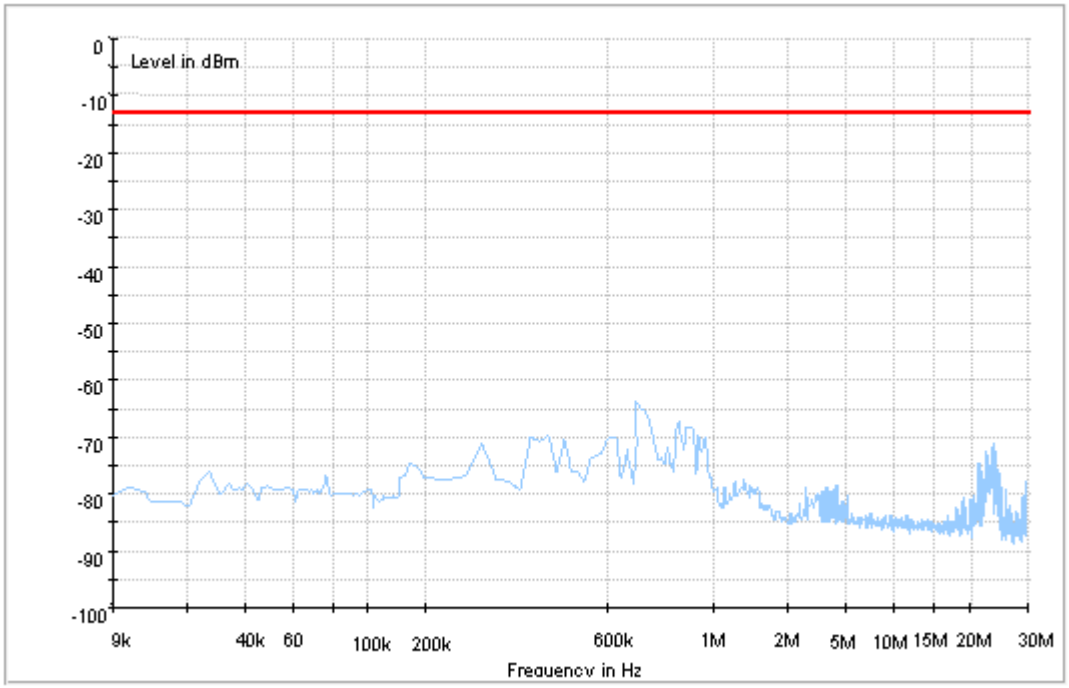
Copy of RSE-TX-DIRECTOR BELOW 1G_H



7.2.1 Test Band = BAND5_ANT2

7.2.1.1 Test Bandwidth = 1.4



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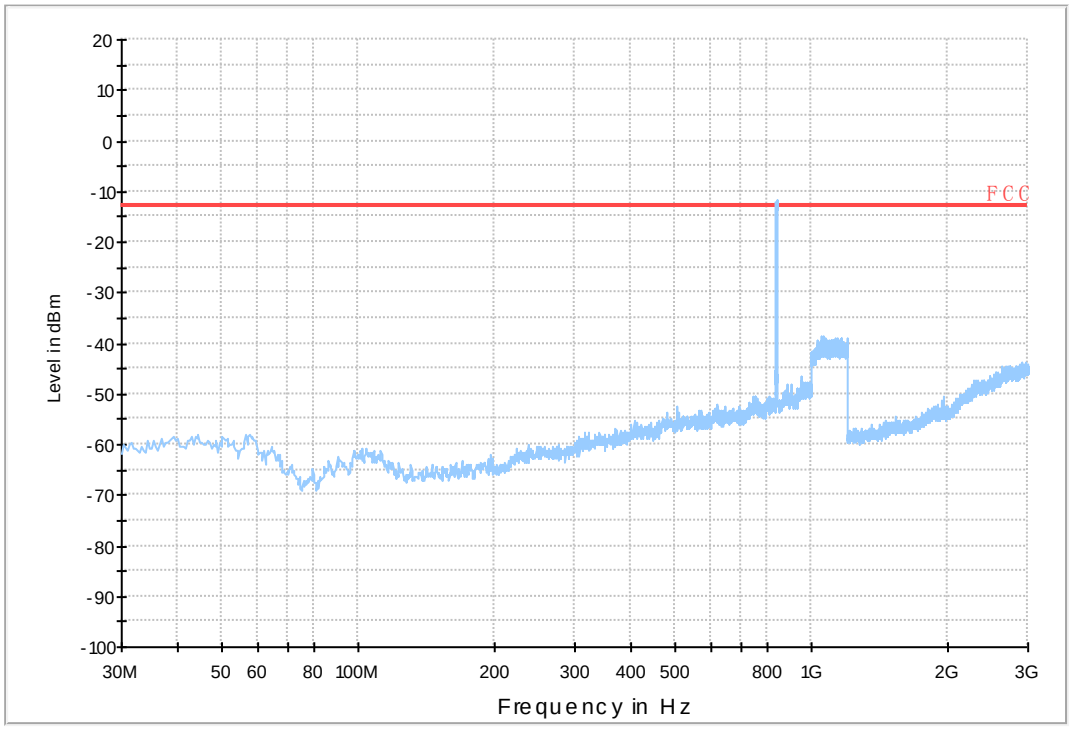

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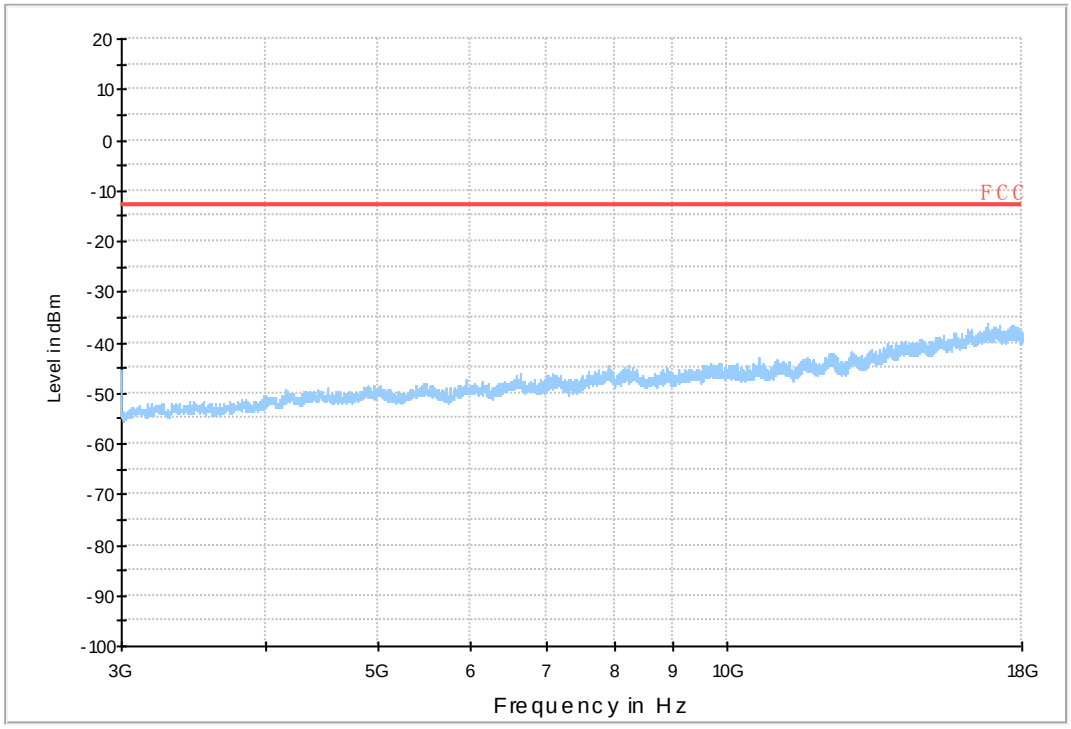

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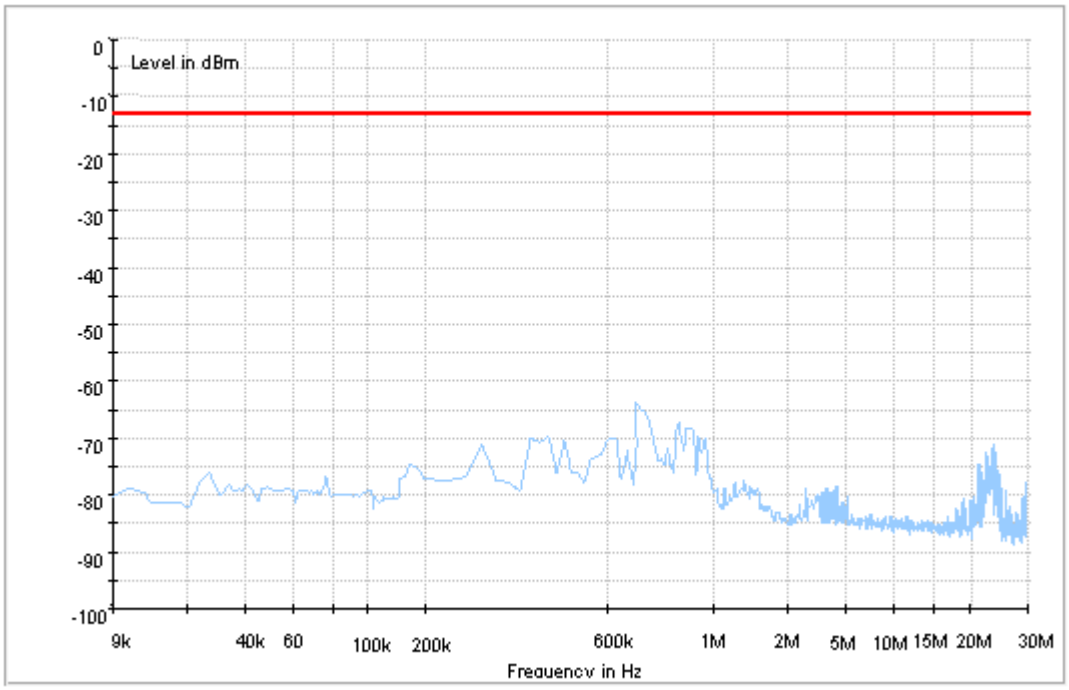
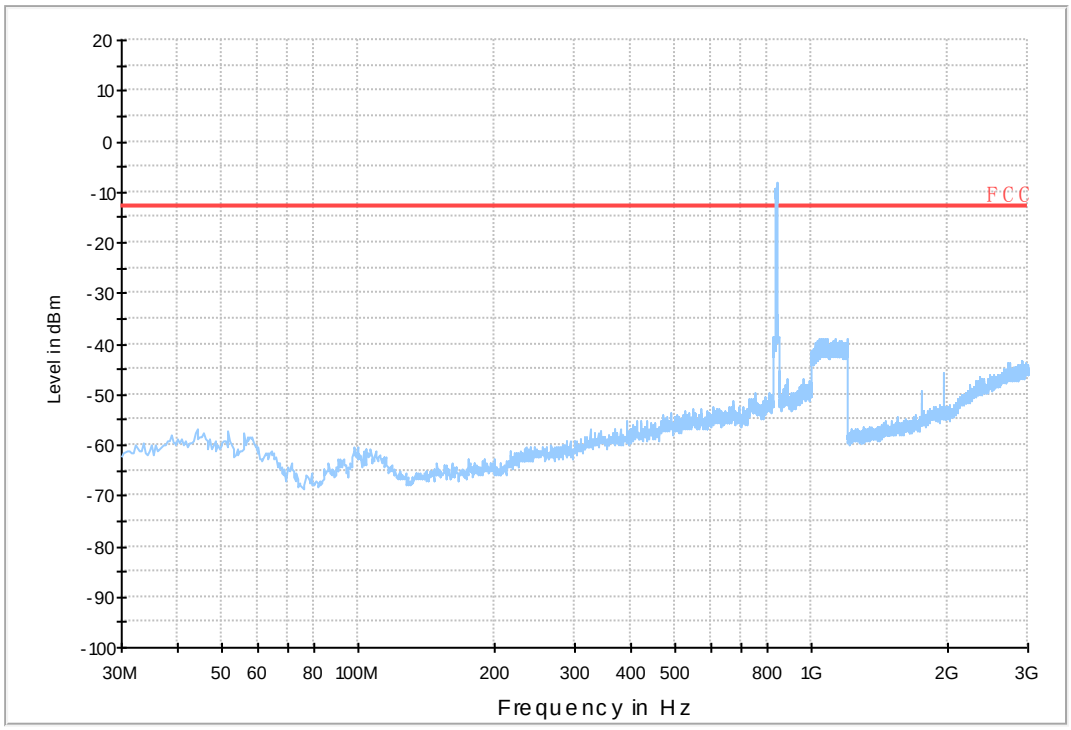
7.2.1.2 Test Bandwidth = 10



Copy of RSE-TX-DIRECTOR BELOW 1G_L



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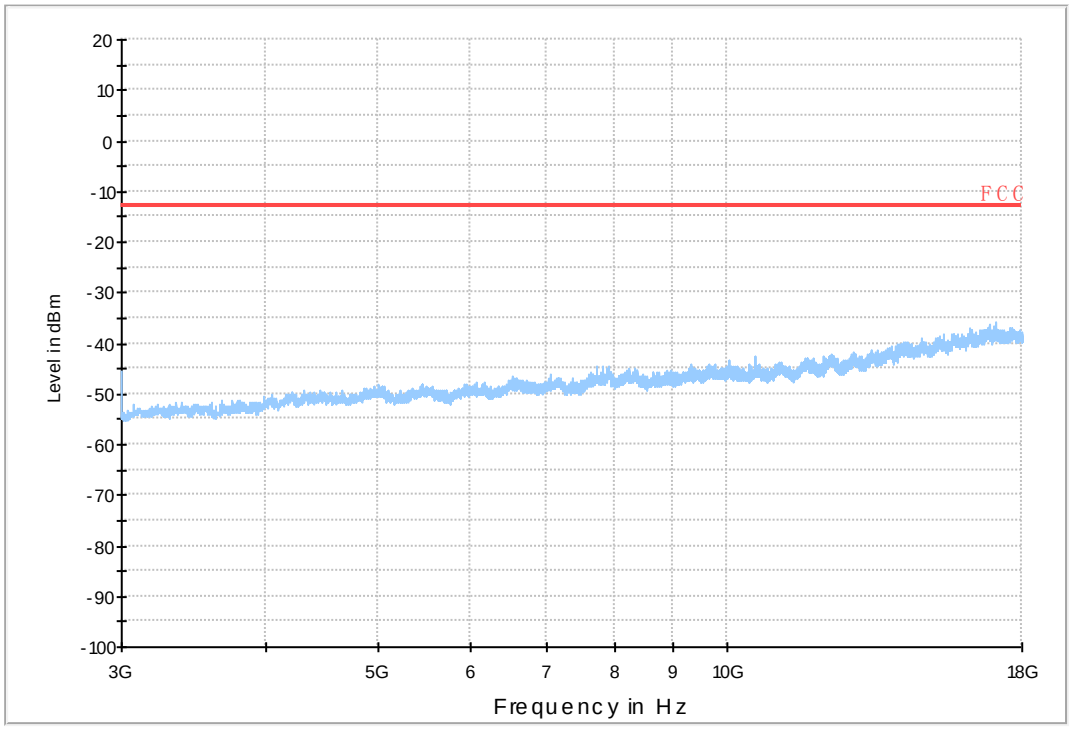
Copy of RSE-TX-DIRECTOR BELOW 1G_H



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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
BAND5	LTE/TM1	1.4	LCH	TN	VL	3.45	0.00418	PASS
					VN	2.99	0.00363	PASS
					VH	1.99	0.00241	PASS
			MCH	TN	VL	-6.08	-0.00727	PASS
					VN	-9.07	-0.01084	PASS
					VH	7.35	0.00879	PASS
			HCH	TN	VL	3.09	0.00364	PASS
					VN	-3.76	-0.00443	PASS
					VH	2.22	0.00262	PASS
		3	LCH	TN	VL	0.27	0.00033	PASS
					VN	2.23	0.0027	PASS
					VH	0	0	PASS
			MCH	TN	VL	-1.34	-0.0016	PASS
					VN	-0.01	-0.00001	PASS
					VH	1.83	0.00219	PASS
			HCH	TN	VL	-0.7	-0.00083	PASS
					VN	-1.85	-0.00218	PASS
					VH	3.05	0.0036	PASS
		5	LCH	TN	VL	-4.63	-0.0056	PASS
					VN	-12.3	-0.01488	PASS
					VH	-17.11	-0.0207	PASS
			MCH	TN	VL	-5.71	-0.00683	PASS
					VN	-3.75	-0.00448	PASS
					VH	-5.25	-0.00628	PASS
			HCH	TN	VL	-3.39	-0.004	PASS
					VN	-0.3	-0.00035	PASS
					VH	-0.1	-0.00012	PASS
		10	LCH	TN	VL	4.38	0.00528	PASS
					VN	-1.63	-0.00197	PASS
					VH	-0.92	-0.00111	PASS
			MCH	TN	VL	0	0	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	-4.95	-0.00592	PASS
					VH	-1.67	-0.002	PASS
			HCH	TN	VL	0.83	0.00098	PASS
					VN	-3.63	-0.0043	PASS
					VH	1.65	0.00195	PASS
	LTE/TM2	1.4	LCH	TN	VL	-0.62	-0.00075	PASS
					VN	-5.36	-0.0065	PASS
					VH	-5.11	-0.0062	PASS
			MCH	TN	VL	-8.87	-0.0106	PASS
					VN	-47.44	-0.05671	PASS
					VH	-1.86	-0.00222	PASS
			HCH	TN	VL	4.06	0.00479	PASS
					VN	6.45	0.0076	PASS
					VH	-4.89	-0.00576	PASS
		3	LCH	TN	VL	3.1	0.00376	PASS
					VN	-1.36	-0.00165	PASS
					VH	0.63	0.00076	PASS
			MCH	TN	VL	1.56	0.00186	PASS
					VN	1.65	0.00197	PASS
					VH	-1.33	-0.00159	PASS
			HCH	TN	VL	1.32	0.00156	PASS
					VN	-0.97	-0.00114	PASS
					VH	-3.29	-0.00388	PASS
		5	LCH	TN	VL	-2.06	-0.00249	PASS
					VN	-1.93	-0.00234	PASS
					VH	1.03	0.00125	PASS
			MCH	TN	VL	7.52	0.00899	PASS
					VN	-0.24	-0.00029	PASS
					VH	-3.13	-0.00374	PASS
			HCH	TN	VL	-3.49	-0.00412	PASS
					VN	-1.6	-0.00189	PASS
					VH	2.36	0.00279	PASS
		10	LCH	TN	VL	1.34	0.00162	PASS
					VN	1.07	0.00129	PASS
					VH	1.82	0.0022	PASS
			MCH	TN	VL	1.72	0.00206	PASS
					VN	0.01	0.00001	PASS
					VH	2.22	0.00265	PASS
			HCH	TN	VL	1.17	0.00139	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	-0.43	-0.00051	PASS
					VH	-2.69	-0.00319	PASS

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
BAND5	LTE/TM1	1.4	LCH	VN	-30	-3.96	-0.0048	PASS
					-20	3.45	0.00418	PASS
					-10	0.49	0.00059	PASS
					0	7.8	0.00946	PASS
					10	3.48	0.00422	PASS
					20	13.85	0.01679	PASS
					30	-0.84	-0.00102	PASS
					40	0.94	0.00114	PASS
					50	9.64	0.01169	PASS
			MCH	VN	-30	-2.35	-0.00281	PASS
					-20	2.13	0.00255	PASS
					-10	-18.5	-0.02212	PASS
					0	-9.08	-0.01085	PASS
					10	5.08	0.00607	PASS
					20	-14.79	-0.01768	PASS
					30	-6.98	-0.00834	PASS
					40	3.08	0.00368	PASS
					50	-20.2	-0.02415	PASS
			HCH	VN	-30	6.81	0.00803	PASS
					-20	3.59	0.00423	PASS
					-10	-13.79	-0.01626	PASS
					0	9.11	0.01074	PASS
					10	4.15	0.00489	PASS
					20	11.23	0.01324	PASS
					30	-11.13	-0.01312	PASS
					40	17.41	0.02052	PASS
					50	0.62	0.00073	PASS
		3	LCH	VN	-30	0.26	0.00031	PASS
					-20	-0.63	-0.00076	PASS
					-10	-0.21	-0.00025	PASS
					0	3.26	0.00395	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	4.45	0.00539	PASS
					20	-0.29	-0.00035	PASS
					30	-3.59	-0.00435	PASS
					40	-1.16	-0.00141	PASS
					50	0.23	0.00028	PASS
			MCH	VN	-30	-0.23	-0.00027	PASS
					-20	4.72	0.00564	PASS
					-10	0.47	0.00056	PASS
					0	1.69	0.00202	PASS
					10	1.37	0.00164	PASS
					20	-3.15	-0.00377	PASS
					30	1.97	0.00236	PASS
					40	-1.9	-0.00227	PASS
					50	-6.18	-0.00739	PASS
			HCH	VN	-30	5.12	0.00604	PASS
					-20	-1.63	-0.00192	PASS
					-10	-0.62	-0.00073	PASS
					0	-0.03	-0.00004	PASS
					10	1.06	0.00125	PASS
					20	1.37	0.00162	PASS
					30	-6.78	-0.008	PASS
					40	1.72	0.00203	PASS
					50	4.51	0.00532	PASS
		5	LCH	VN	-30	3.18	0.00385	PASS
					-20	0.73	0.00088	PASS
					-10	0.83	0.001	PASS
					0	-4.89	-0.00592	PASS
					10	0.47	0.00057	PASS
					20	0.57	0.00069	PASS
					30	0.97	0.00117	PASS
					40	2.83	0.00342	PASS
					50	0.07	0.00008	PASS
			MCH	VN	-30	-6.65	-0.00795	PASS
					-20	-5.97	-0.00714	PASS
					-10	-1.53	-0.00183	PASS
					0	-4.46	-0.00533	PASS
					10	-3.02	-0.00361	PASS
					20	6.34	0.00758	PASS
					30	7.87	0.00941	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	0.92	0.0011	PASS
					50	9.21	0.01101	PASS
			HCH	VN	-30	4.29	0.00507	PASS
					-20	2.43	0.00287	PASS
					-10	-1.97	-0.00233	PASS
					0	0.93	0.0011	PASS
					10	-0.43	-0.00051	PASS
					20	1.13	0.00133	PASS
					30	2.13	0.00252	PASS
					40	0.7	0.00083	PASS
					50	-0.67	-0.00079	PASS
		10	LCH	VN	-30	-2.2	-0.00265	PASS
					-20	0.47	0.00057	PASS
					-10	2.96	0.00357	PASS
					0	-1.5	-0.00181	PASS
					10	0.3	0.00036	PASS
					20	2.35	0.00283	PASS
					30	-0.23	-0.00028	PASS
					40	-0.17	-0.00021	PASS
					50	3.22	0.00388	PASS
			MCH	VN	-30	2.7	0.00323	PASS
					-20	0.69	0.00082	PASS
					-10	-4.51	-0.00539	PASS
					0	1.12	0.00134	PASS
					10	2.19	0.00262	PASS
					20	0.13	0.00016	PASS
					30	2.42	0.00289	PASS
					40	0.93	0.00111	PASS
					50	1.46	0.00175	PASS
			HCH	VN	-30	-2.9	-0.00344	PASS
					-20	0.3	0.00036	PASS
					-10	-1.4	-0.00166	PASS
					0	-5.72	-0.00678	PASS
					10	-1.22	-0.00145	PASS
					20	-4.61	-0.00546	PASS
					30	-3.4	-0.00403	PASS
					40	-2.49	-0.00295	PASS
					50	-3.3	-0.00391	PASS
	LTE/TM2	1.4	LCH	VN	-30	-1.59	-0.00193	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	1.73	0.0021	PASS
					-10	3.05	0.0037	PASS
					0	0.41	0.0005	PASS
					10	1.36	0.00165	PASS
					20	-3.25	-0.00394	PASS
					30	-0.59	-0.00072	PASS
					40	1.82	0.00221	PASS
					50	2.2	0.00267	PASS
			MCH	VN	-30	-7.21	-0.00862	PASS
					-20	5.88	0.00703	PASS
					-10	8.73	0.01044	PASS
					0	11.86	0.01418	PASS
					10	-9.41	-0.01125	PASS
					20	34.49	0.04123	PASS
					30	4.66	0.00557	PASS
					40	7.91	0.00946	PASS
					50	-27.19	-0.0325	PASS
			HCH	VN	-30	-7.81	-0.00921	PASS
					-20	4.66	0.00549	PASS
					-10	9.87	0.01164	PASS
					0	-0.27	-0.00032	PASS
					10	6.39	0.00753	PASS
					20	2.95	0.00348	PASS
					30	16.05	0.01892	PASS
					40	-1.92	-0.00226	PASS
					50	5.64	0.00665	PASS
		3	LCH	VN	-30	-1.12	-0.00136	PASS
					-20	-3.29	-0.00399	PASS
					-10	-1.36	-0.00165	PASS
					0	3.4	0.00412	PASS
					10	-6.27	-0.0076	PASS
					20	-1.66	-0.00201	PASS
					30	3.36	0.00407	PASS
					40	-0.26	-0.00031	PASS
					50	1.26	0.00153	PASS
			MCH	VN	-30	4.79	0.00573	PASS
					-20	-2.27	-0.00271	PASS
					-10	0.23	0.00027	PASS
					0	1.04	0.00124	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	1.2	0.00143	PASS
					20	-3.18	-0.0038	PASS
					30	0.63	0.00075	PASS
					40	-0.11	-0.00013	PASS
					50	-4.43	-0.0053	PASS
			HCH	VN	-30	-1.95	-0.0023	PASS
					-20	0.01	0.00001	PASS
					-10	-0.34	-0.0004	PASS
					0	-1.47	-0.00173	PASS
					10	-2.03	-0.0024	PASS
					20	2.42	0.00286	PASS
					30	1.82	0.00215	PASS
					40	4.06	0.00479	PASS
					50	-2.43	-0.00287	PASS
		5	LCH	VN	-30	0.11	0.00013	PASS
					-20	0.06	0.00007	PASS
					-10	-0.04	-0.00005	PASS
					0	-0.37	-0.00045	PASS
					10	-0.59	-0.00071	PASS
					20	-1.06	-0.00128	PASS
					30	0.89	0.00108	PASS
					40	-0.03	-0.00004	PASS
					50	0.16	0.00019	PASS
			MCH	VN	-30	3.98	0.00476	PASS
					-20	9.01	0.01077	PASS
					-10	9.67	0.01156	PASS
					0	-7.82	-0.00935	PASS
					10	-6.52	-0.00779	PASS
					20	-8.11	-0.0097	PASS
					30	-4.41	-0.00527	PASS
					40	-2.47	-0.00295	PASS
					50	-7.52	-0.00899	PASS
			HCH	VN	-30	4.01	0.00474	PASS
					-20	0.87	0.00103	PASS
					-10	-2.98	-0.00352	PASS
					0	0.01	0.00001	PASS
					10	2.35	0.00278	PASS
					20	1.24	0.00146	PASS
					30	-4.91	-0.0058	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	-1.75	-0.00207	PASS
					50	0.56	0.00066	PASS
		10	LCH	VN	-30	3.13	0.00378	PASS
					-20	-1.23	-0.00148	PASS
					-10	2.45	0.00296	PASS
					0	0.5	0.0006	PASS
					10	-1.43	-0.00172	PASS
					20	1.27	0.00153	PASS
					30	1.47	0.00177	PASS
					40	1.92	0.00232	PASS
					50	3.38	0.00408	PASS
			MCH	VN	-30	-4.49	-0.00537	PASS
					-20	0.72	0.00086	PASS
					-10	1.62	0.00194	PASS
					0	-1.07	-0.00128	PASS
					10	3.06	0.00366	PASS
					20	-4.72	-0.00564	PASS
					30	3.79	0.00453	PASS
					40	-3.35	-0.004	PASS
					50	3.28	0.00392	PASS
			HCH	VN	-30	-6.32	-0.00749	PASS
					-20	-2.79	-0.00331	PASS
					-10	-1.49	-0.00177	PASS
					0	-4.72	-0.00559	PASS
					10	1.36	0.00161	PASS
					20	-9.54	-0.0113	PASS
					30	-0.59	-0.0007	PASS
					40	-3.3	-0.00391	PASS
					50	-2.19	-0.00259	PASS

END

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