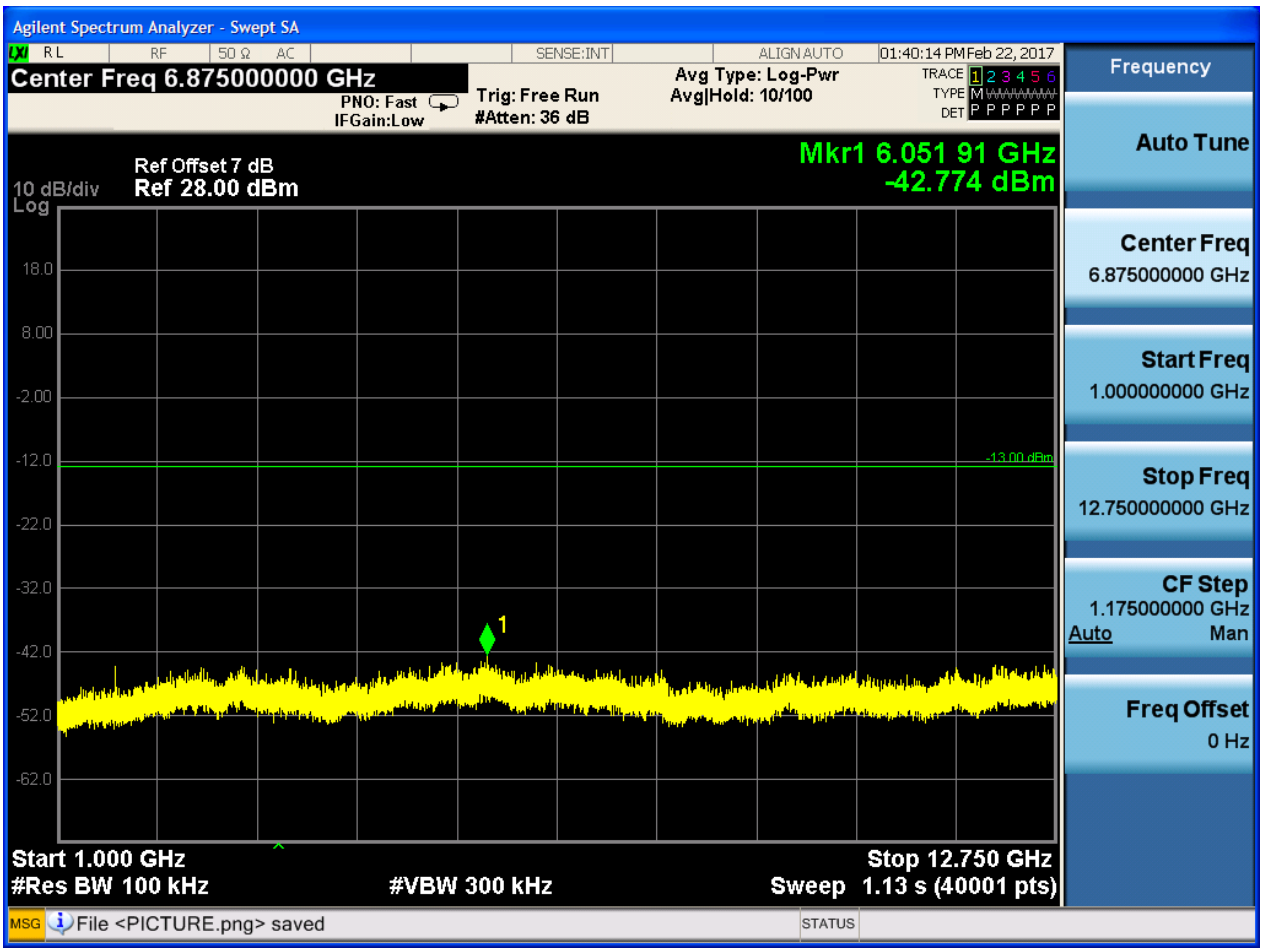

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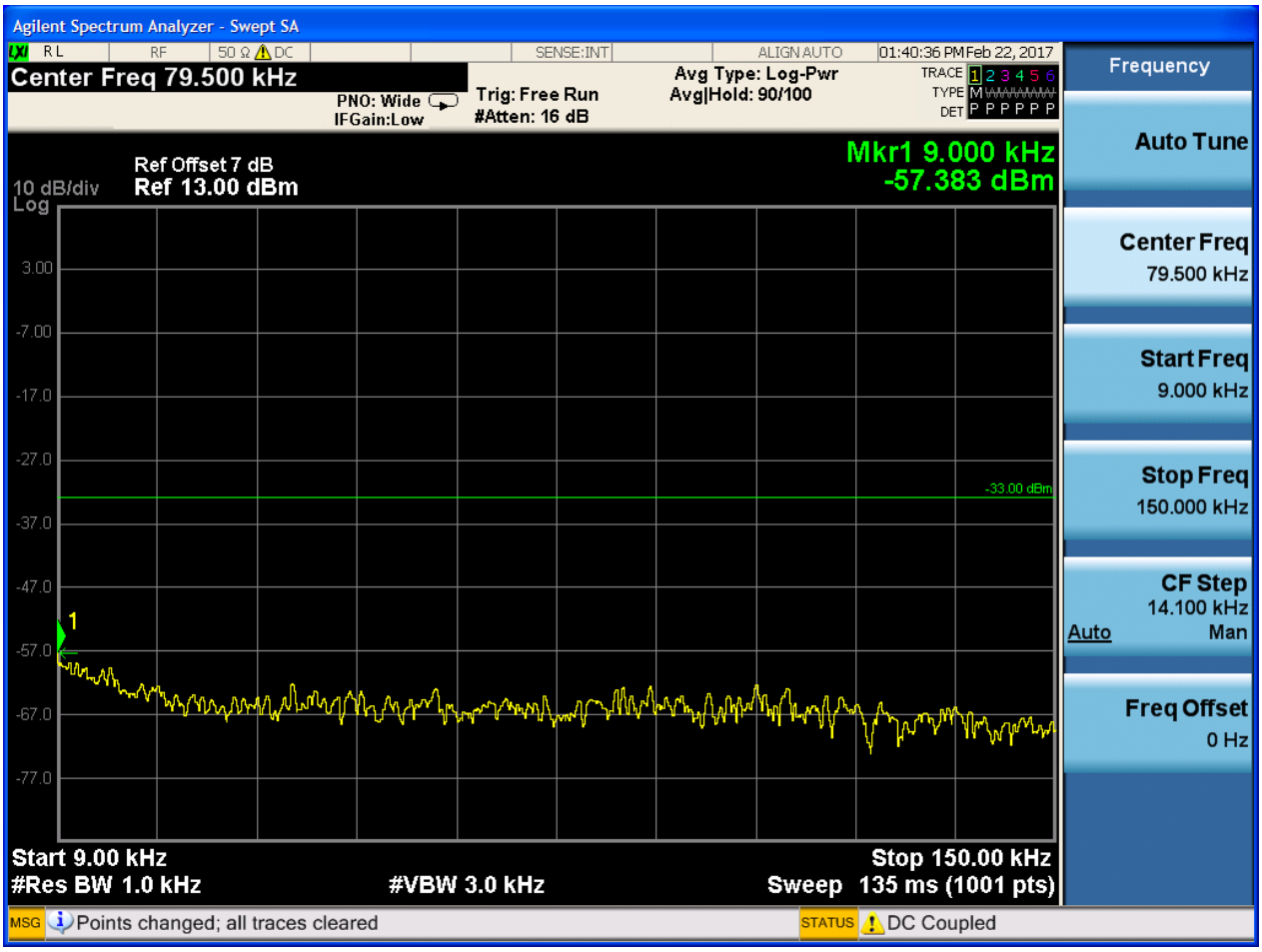
6.1.1.1.1.3 Test Channel = HCH

6.1.1.1.1.3.1 Test RB = RB1#0



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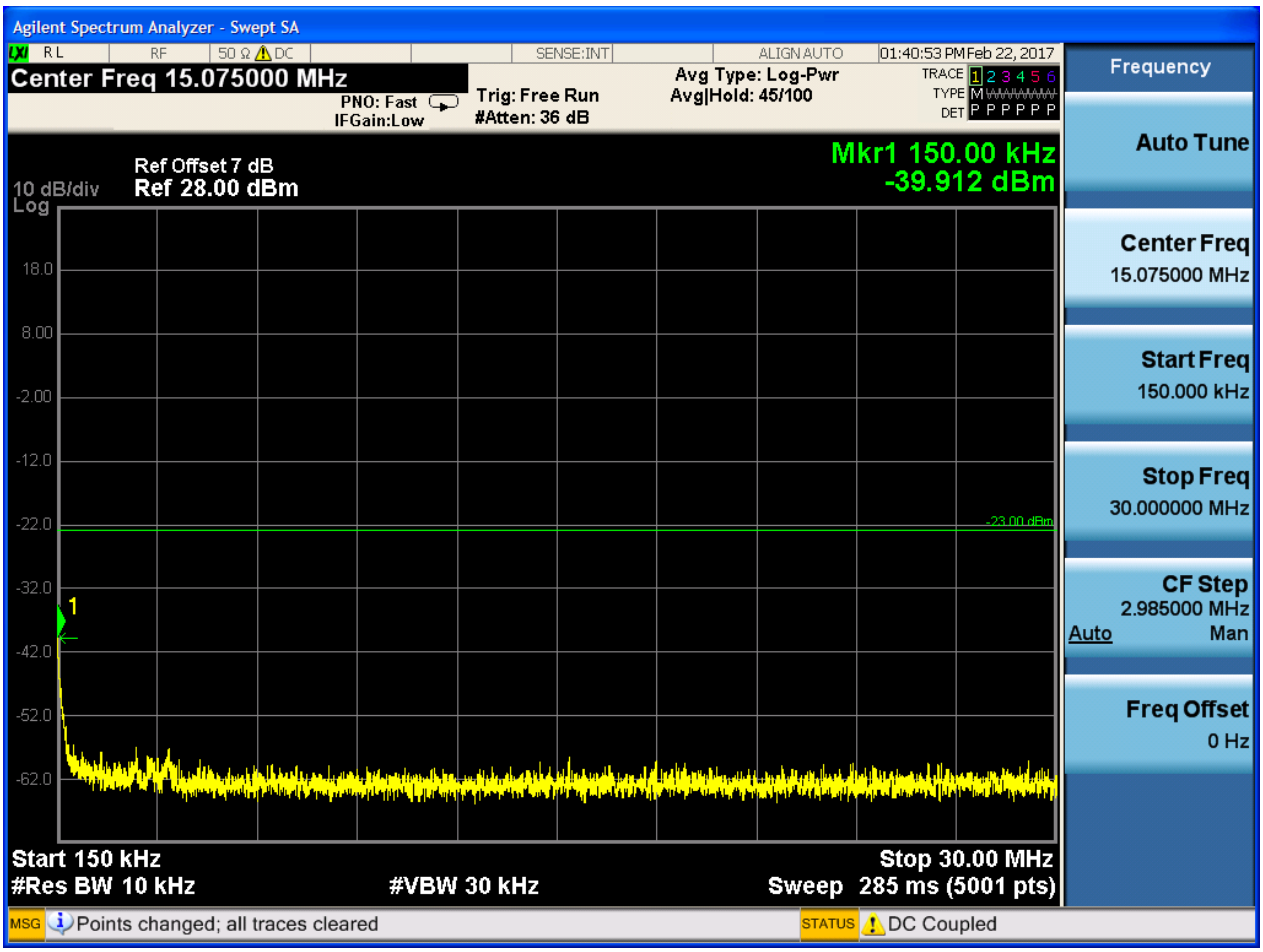

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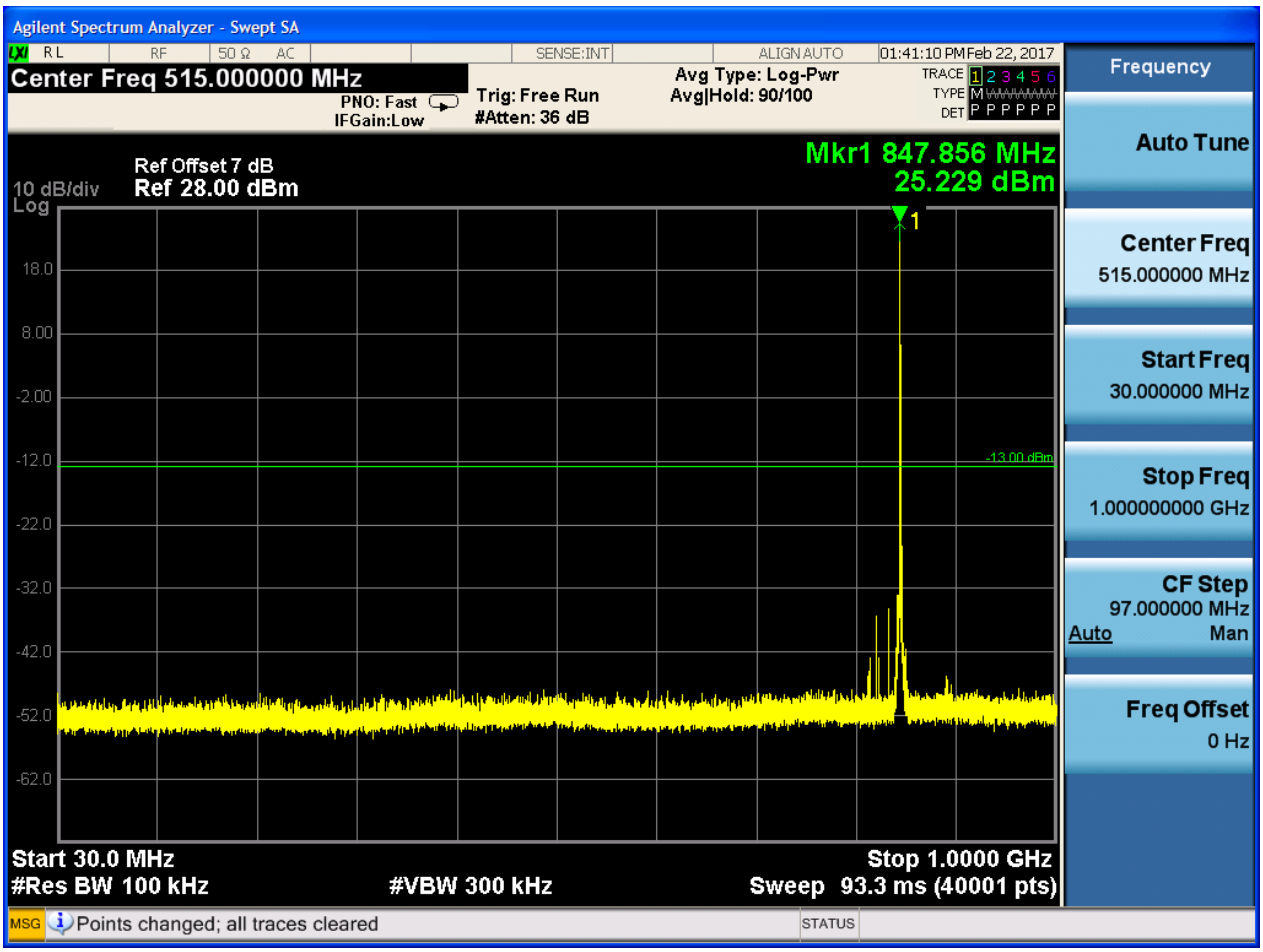
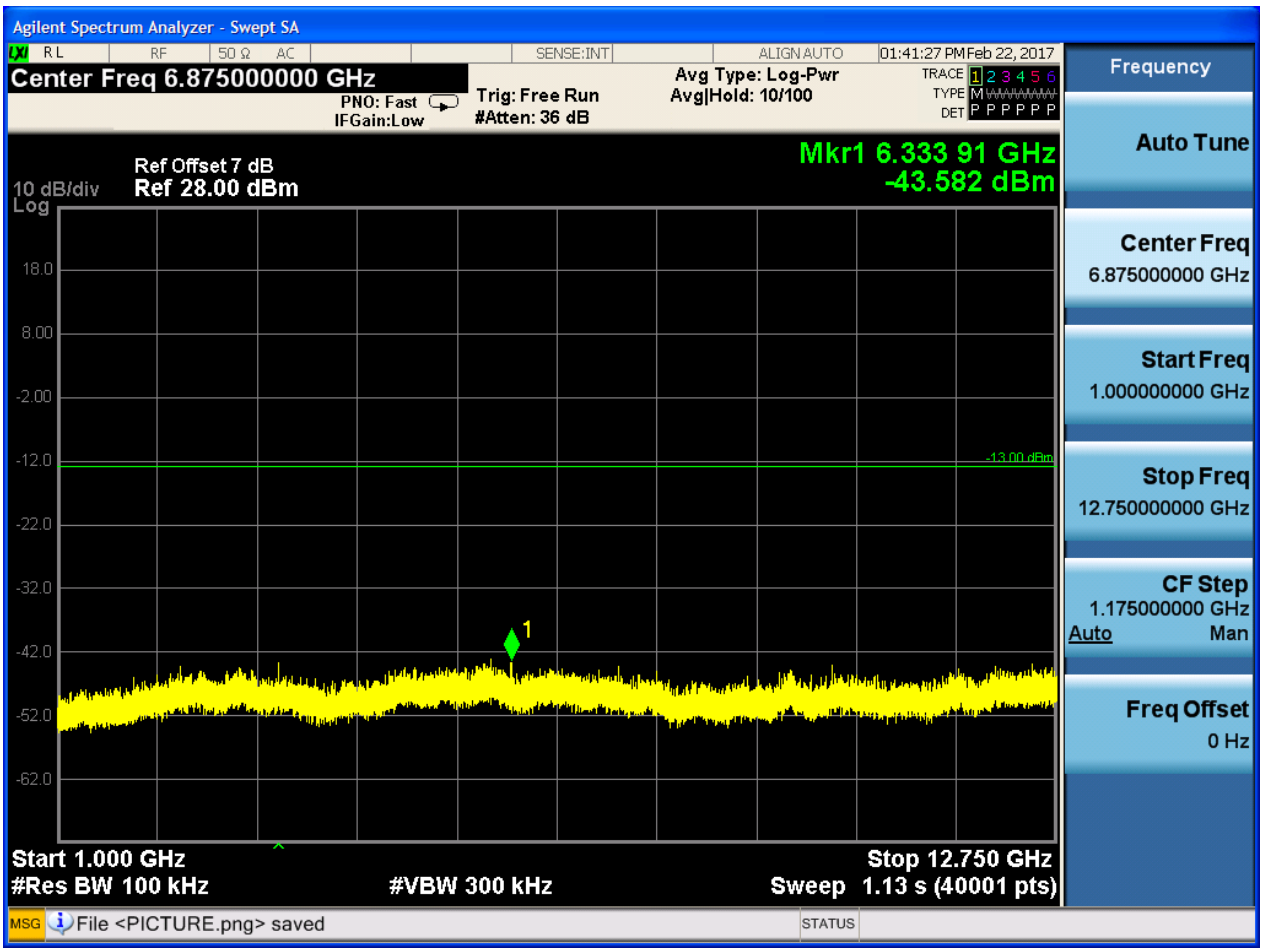

Agilent Spectrum Analyzer - Swept SA
Center Freq 515.000000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 36 dB
Avg Type: Log-Pwr
Avg|Hold: 90/100
01:41:10 PM Feb 22, 2017
Ref Offset 7 dB
10 dB/div
Ref 28.00 dBm
Log
Mkr1 847.856 MHz
25.229 dBm
-13.00 dBm
Start 30.0 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 1.0000 GHz
Sweep 93.3 ms (40001 pts)
Points changed; all traces cleared
Frequency
Auto Tune
Center Freq
515.000000 MHz
Start Freq
30.000000 MHz
Stop Freq
1.000000000 GHz
CF Step
97.000000 MHz
Auto
Man
Freq Offset
0 Hz



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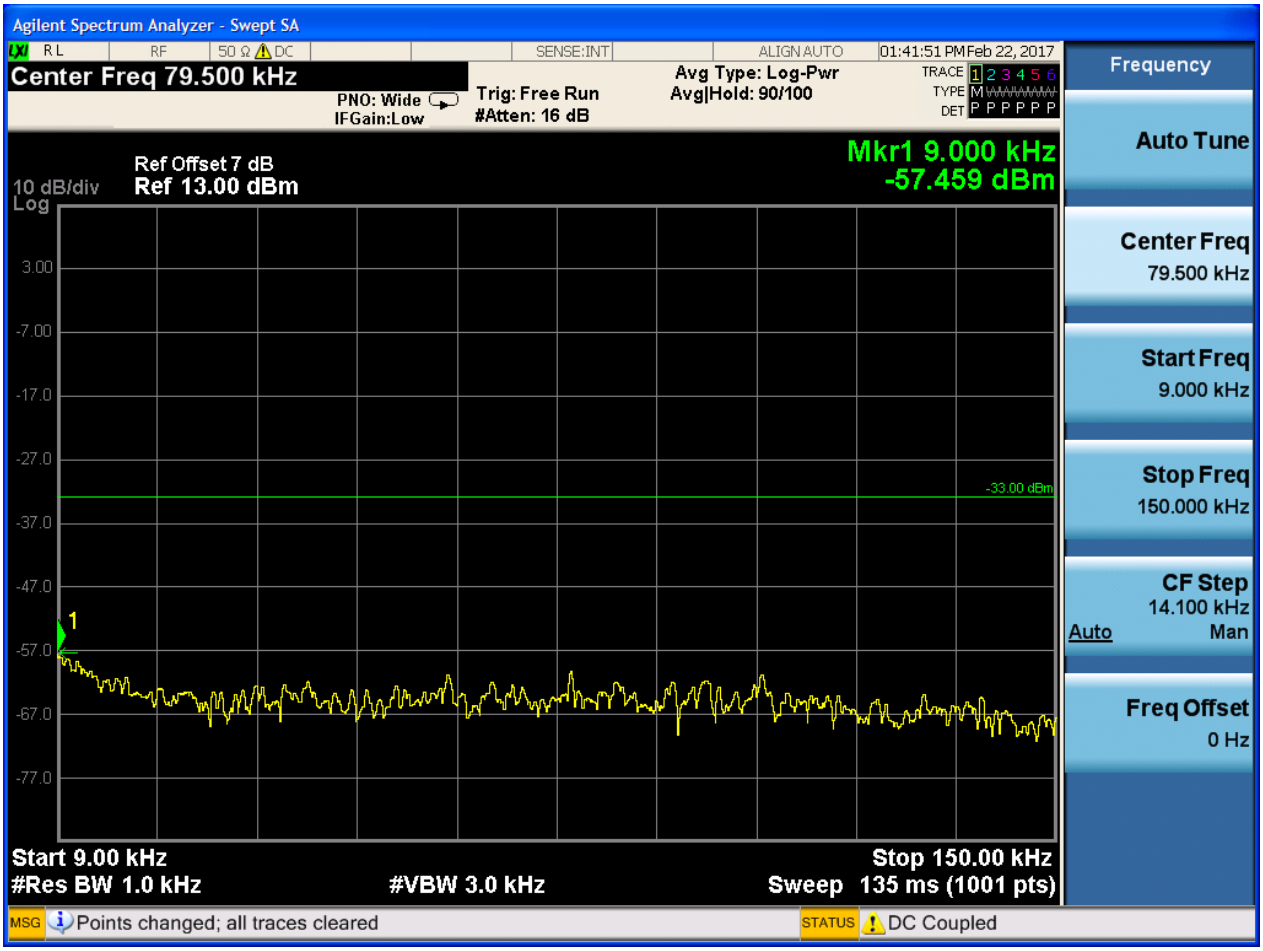
6.1.1.1.2 Test Bandwidth = 3

6.1.1.1.2.1 Test Channel = LCH

6.1.1.1.2.1.1 Test RB = RB1#0



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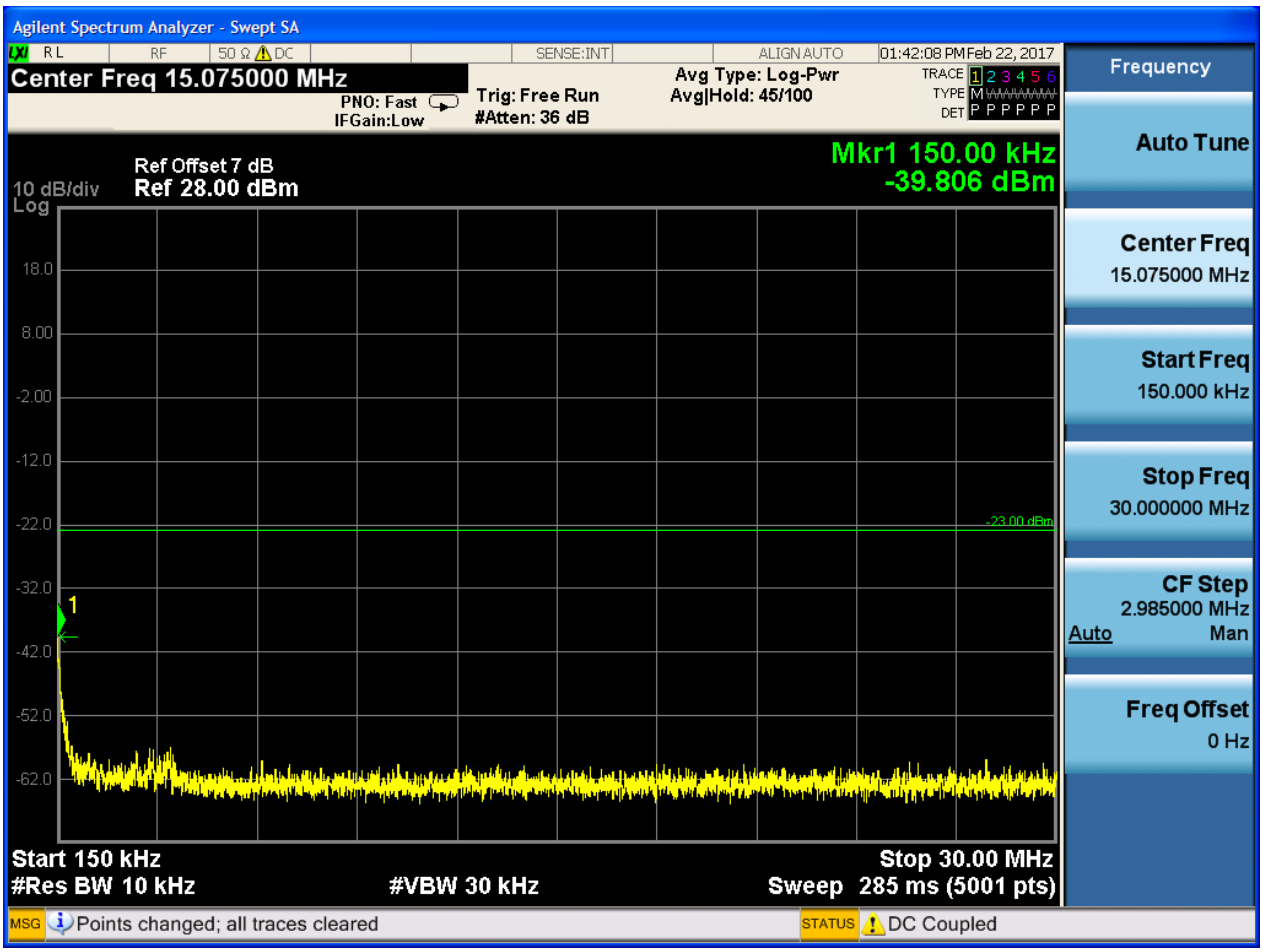

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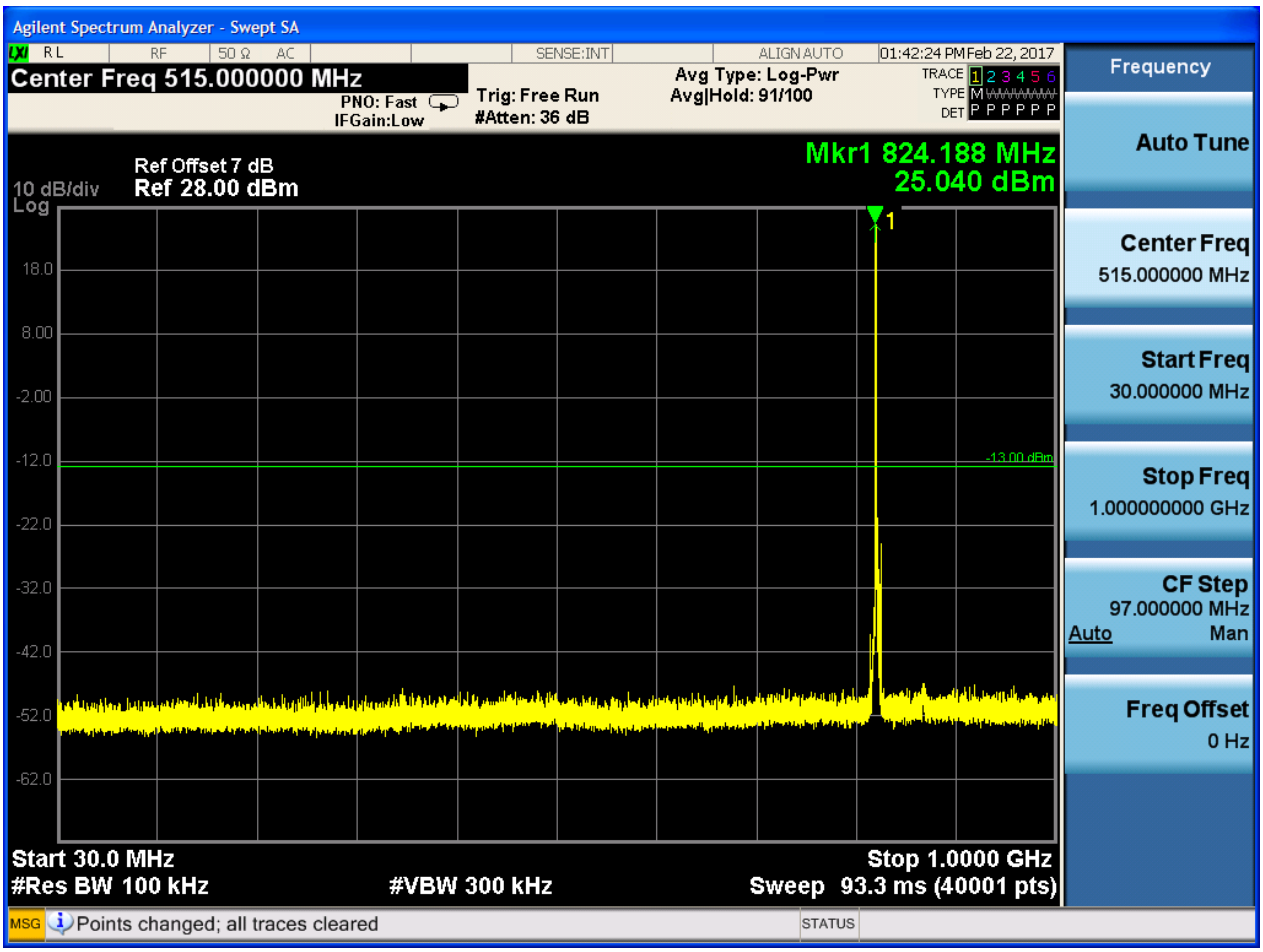

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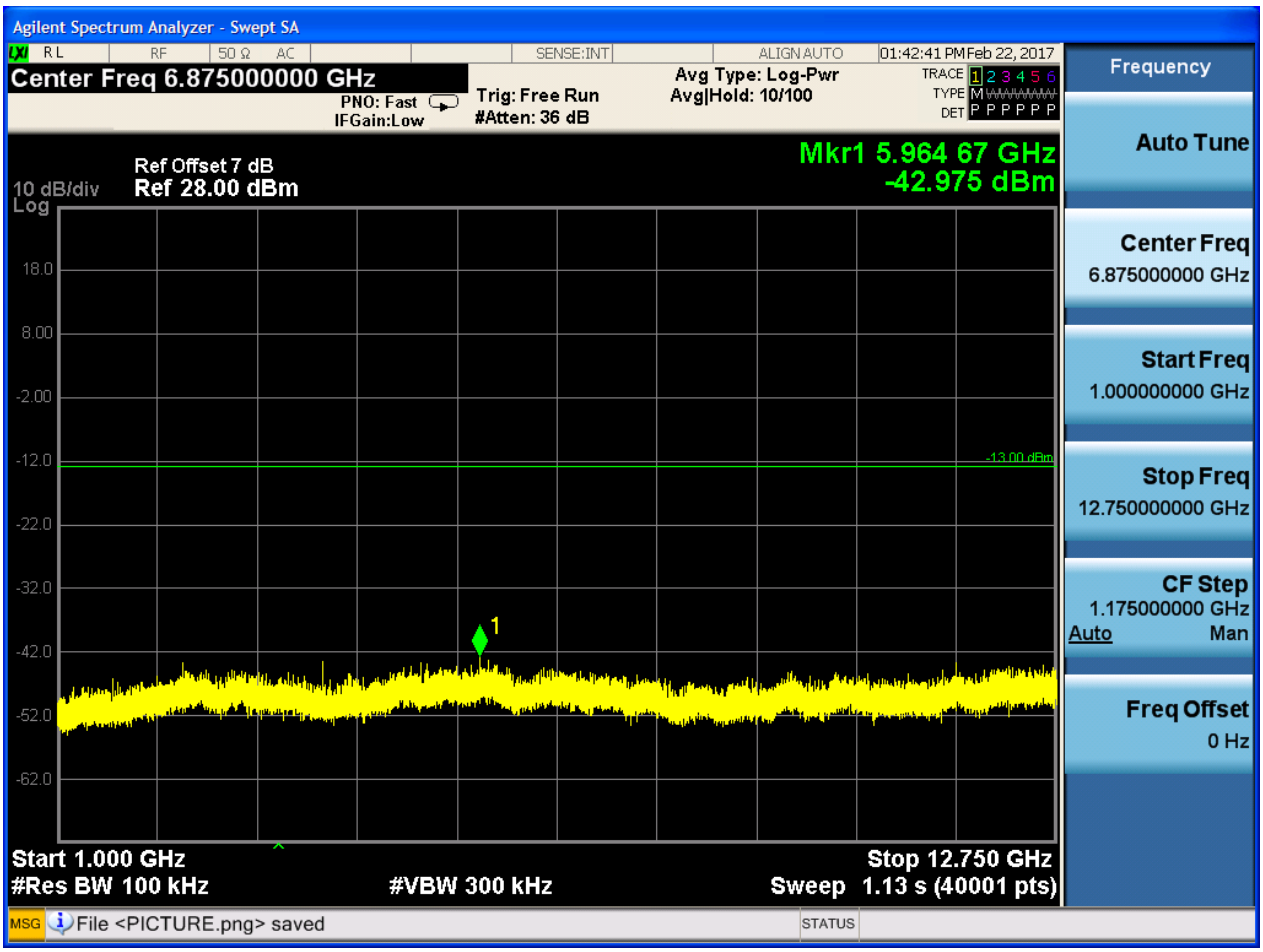

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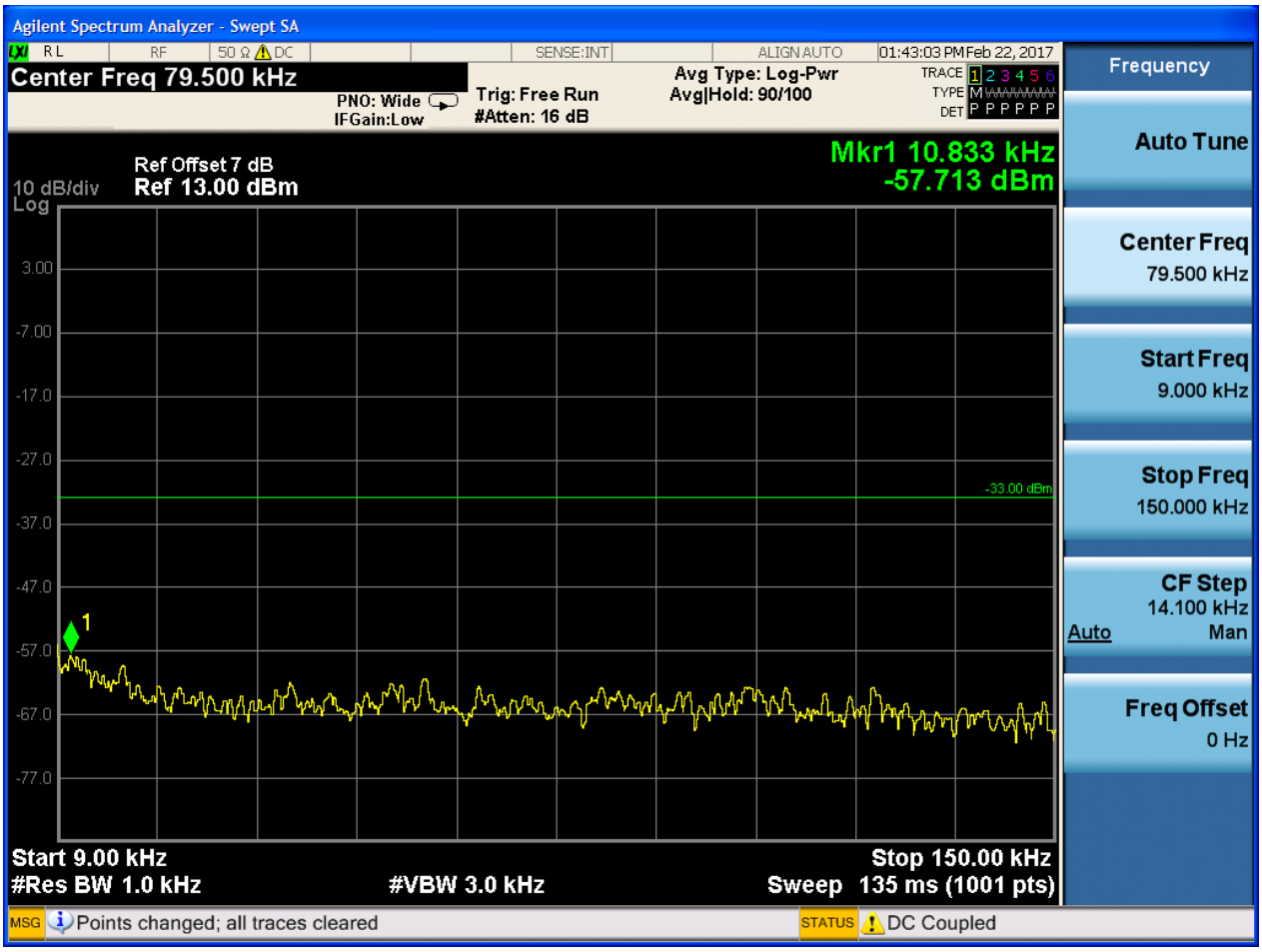
6.1.1.1.2.2 Test Channel = MCH

6.1.1.1.2.2.1 Test RB = RB1#0



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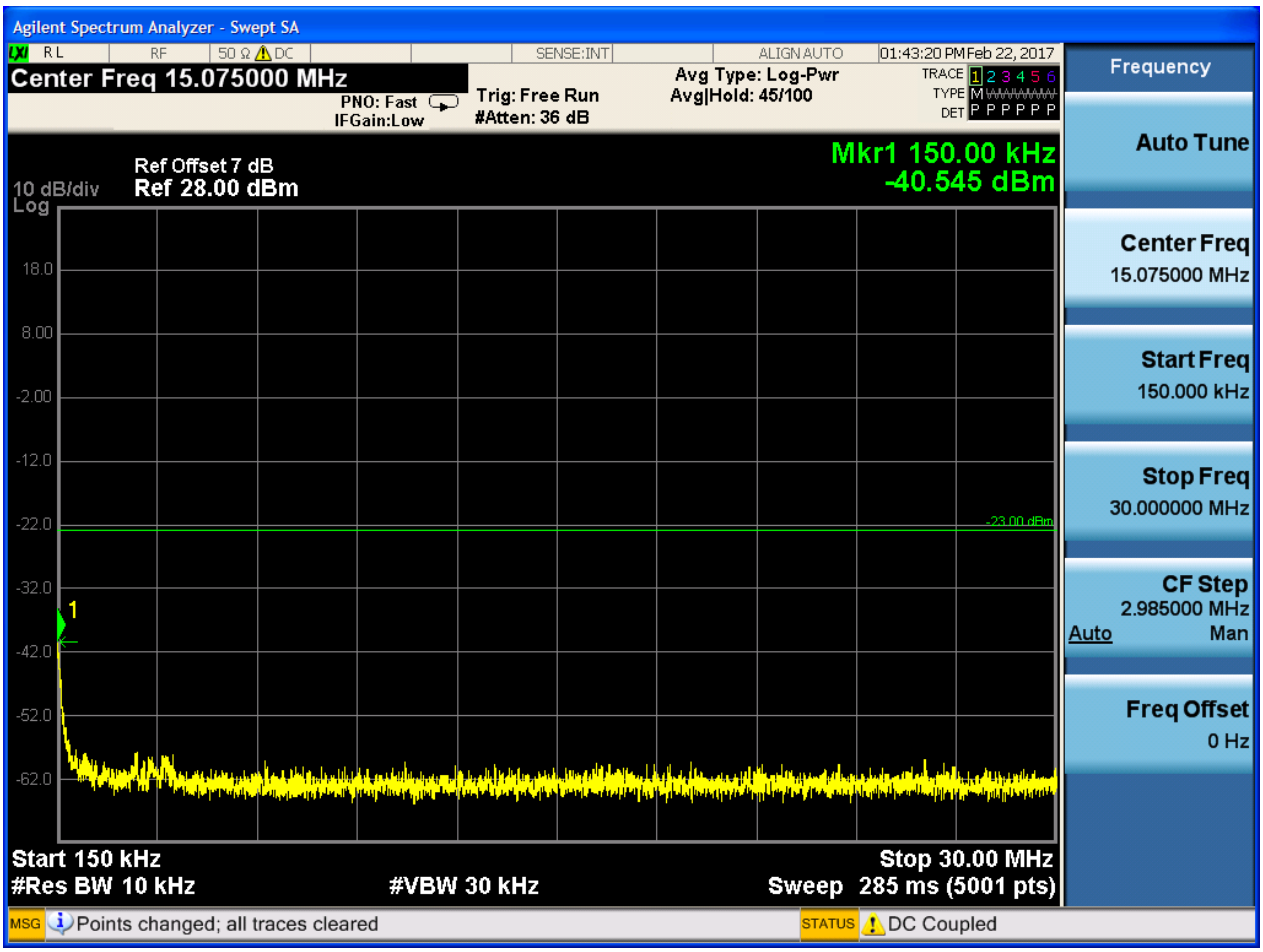

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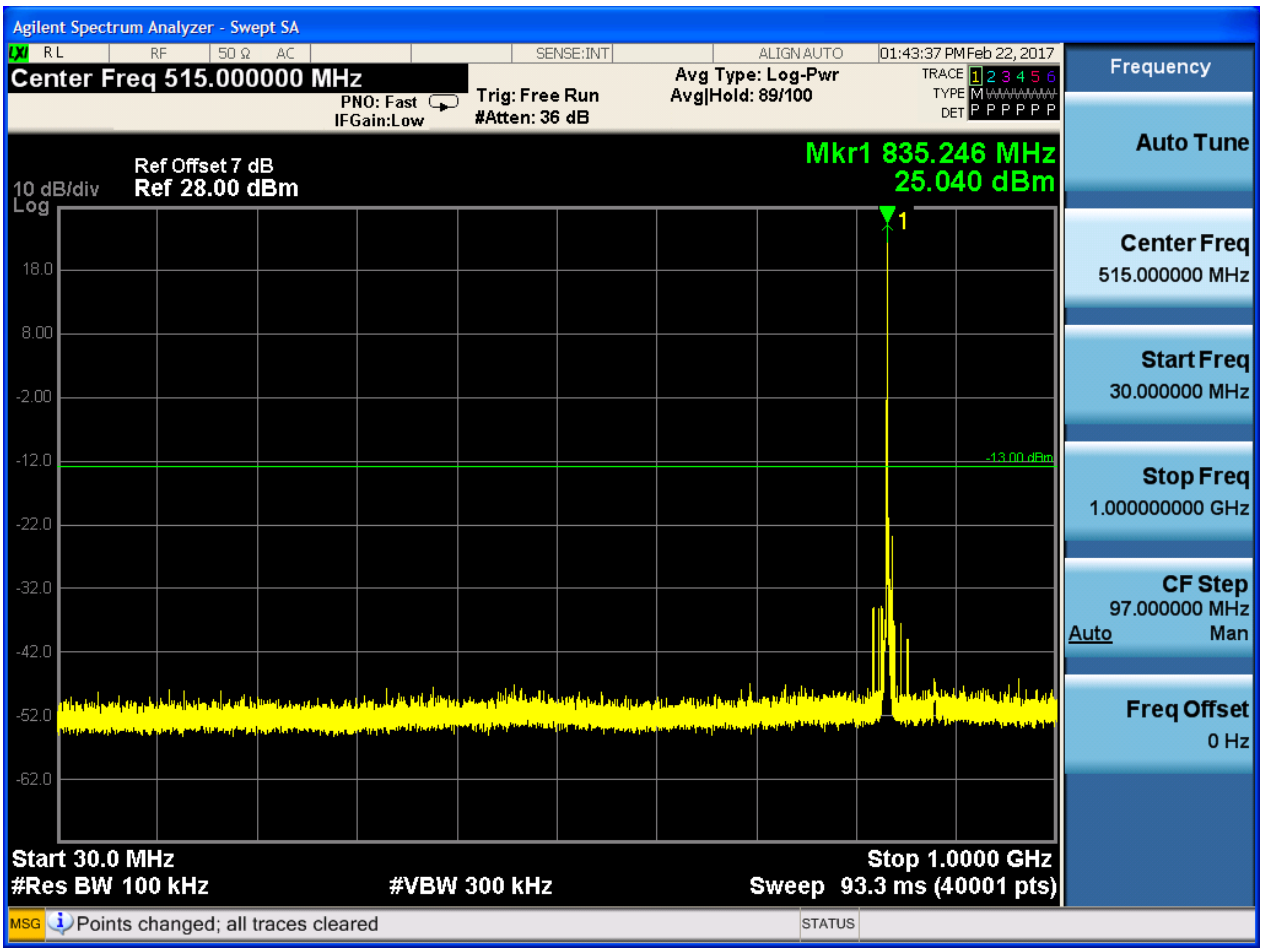

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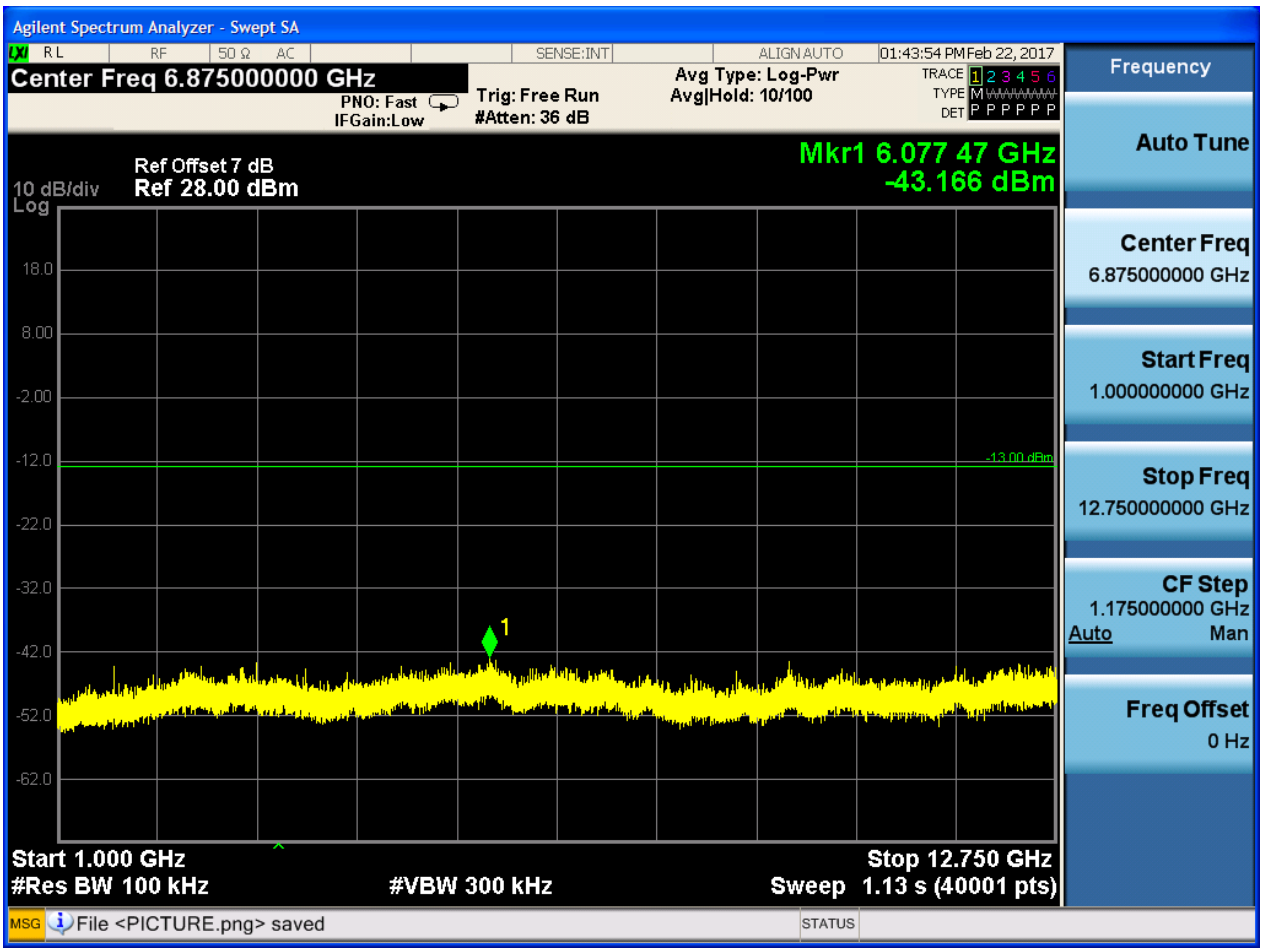

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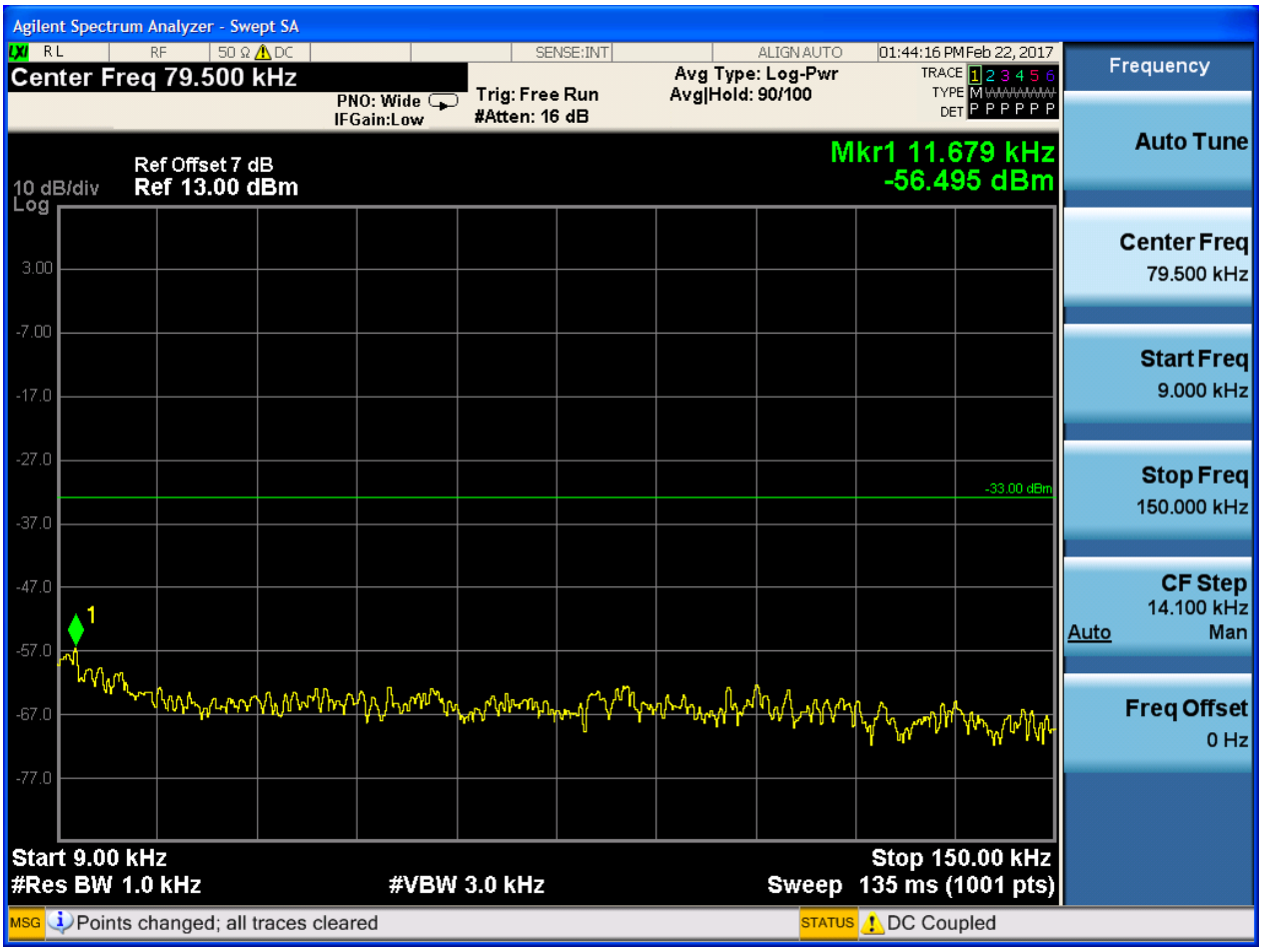
6.1.1.1.2.3 Test Channel = HCH

6.1.1.1.2.3.1 Test RB = RB1#0



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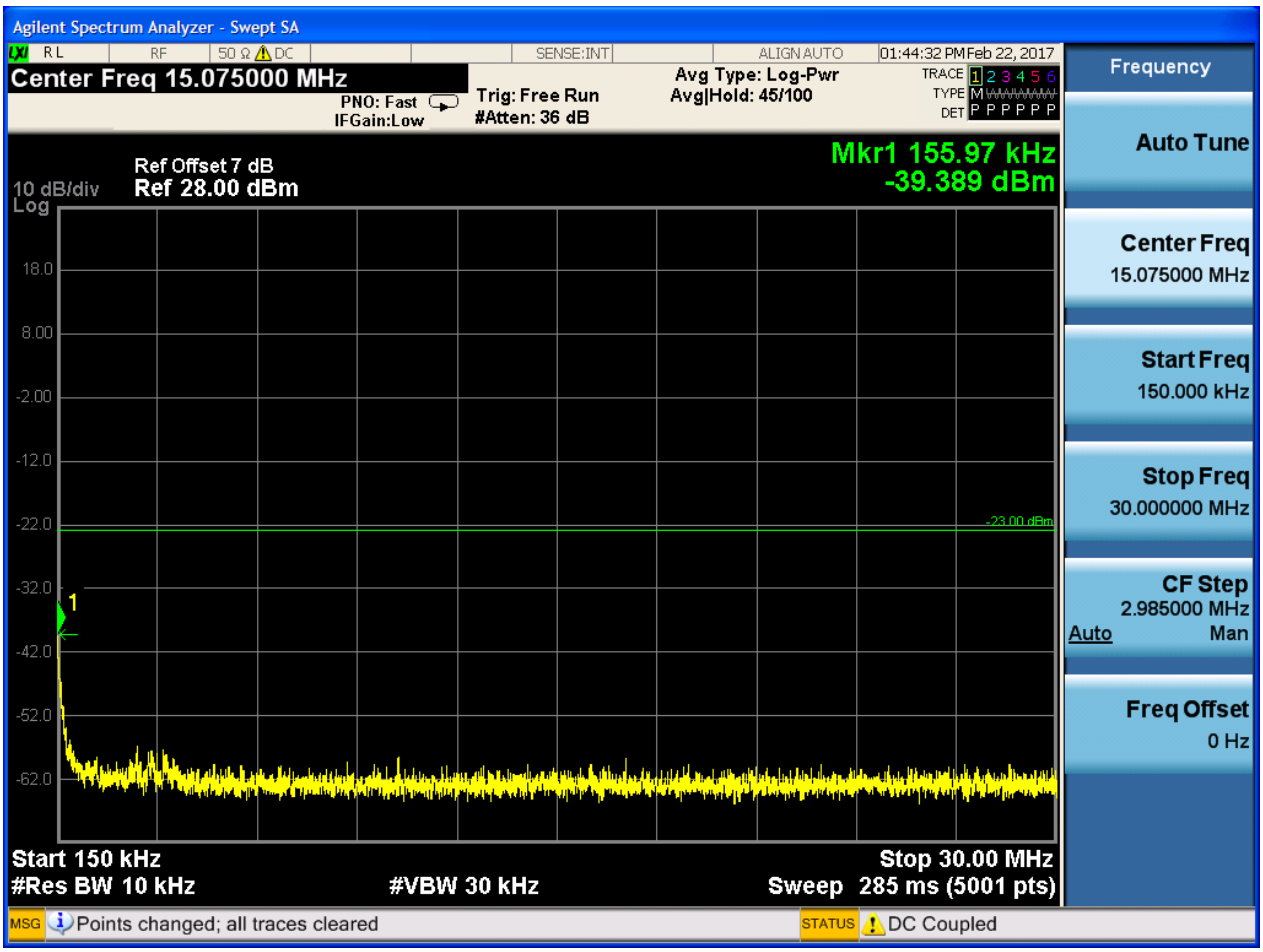

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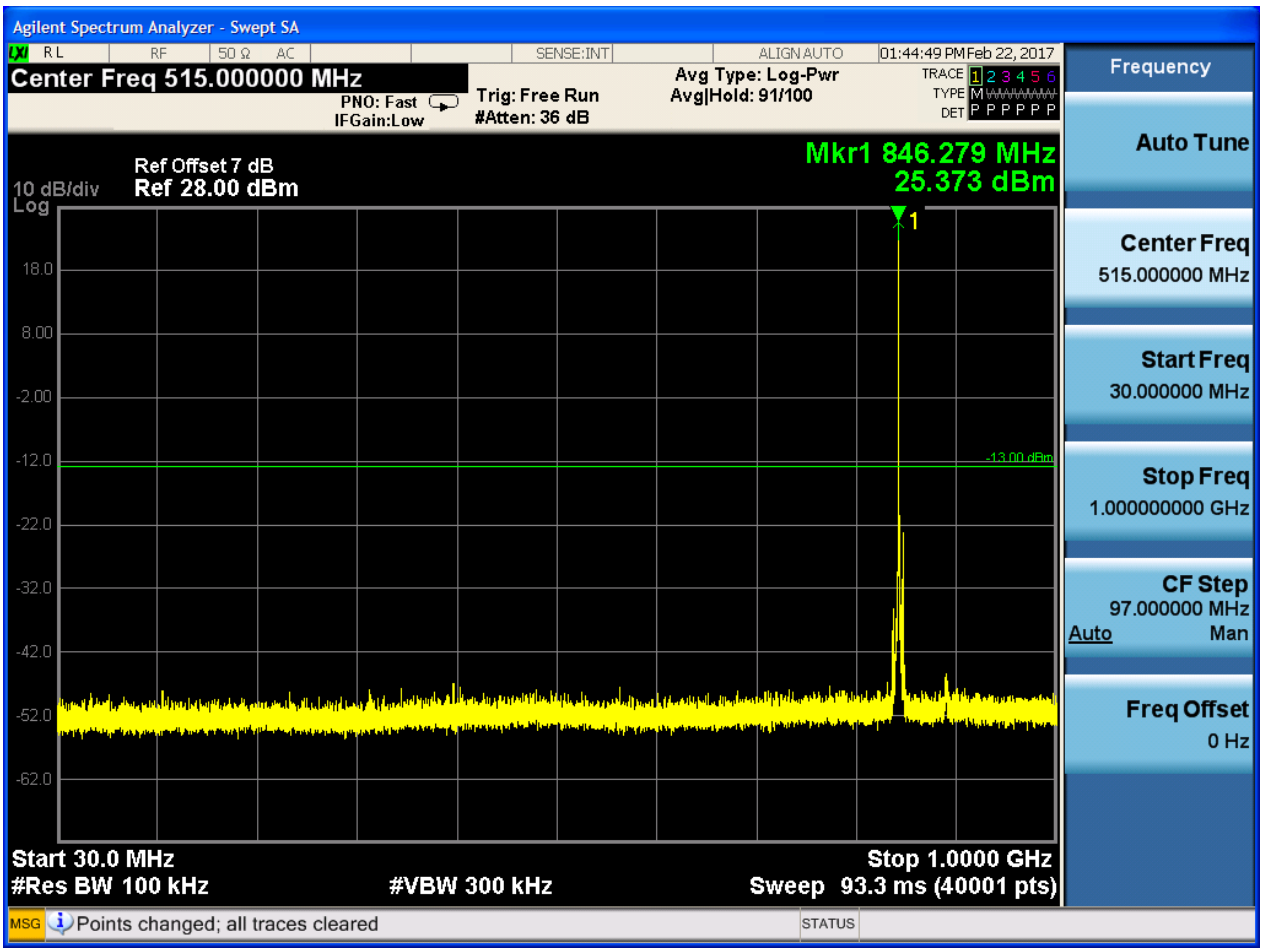

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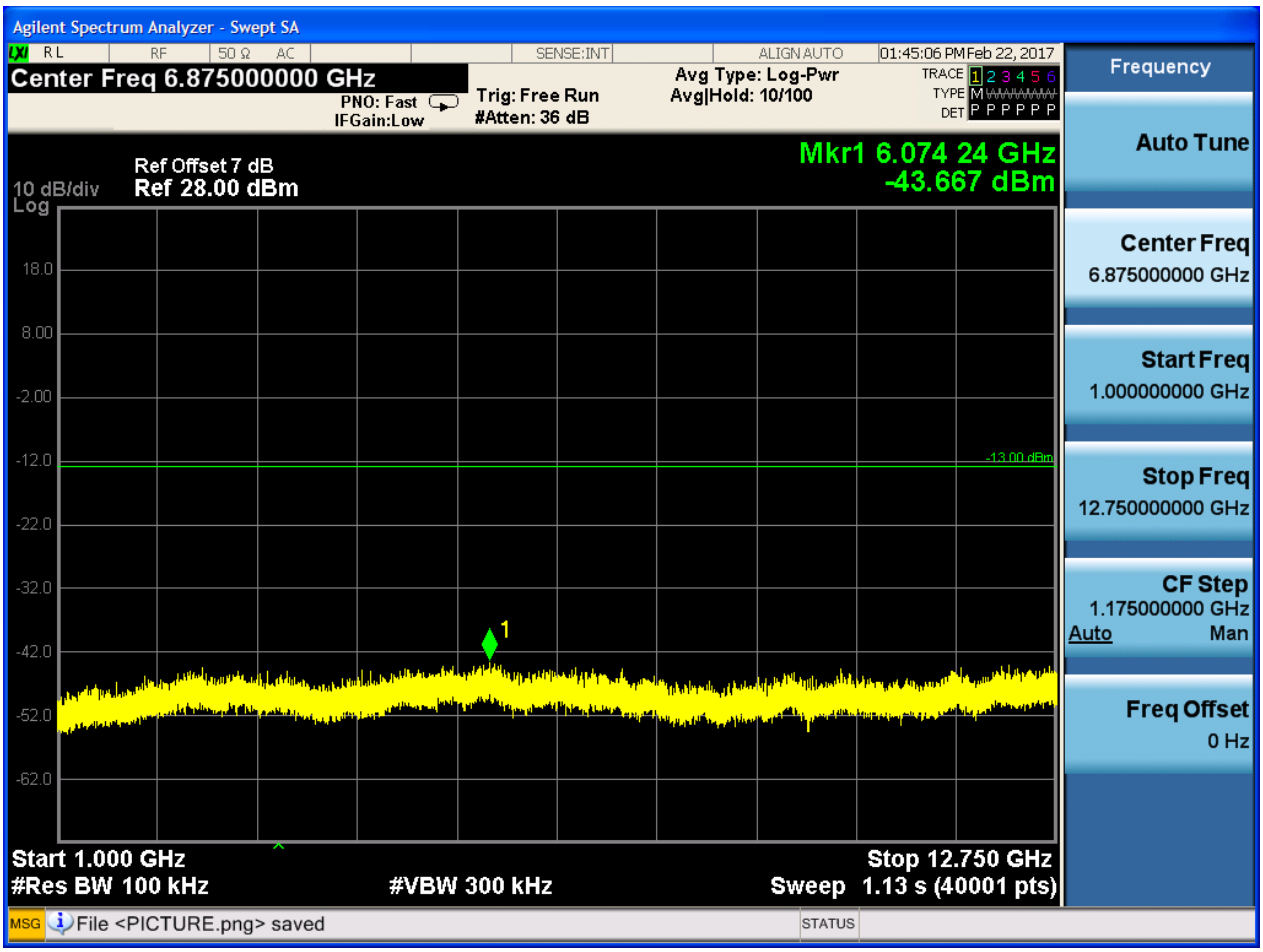

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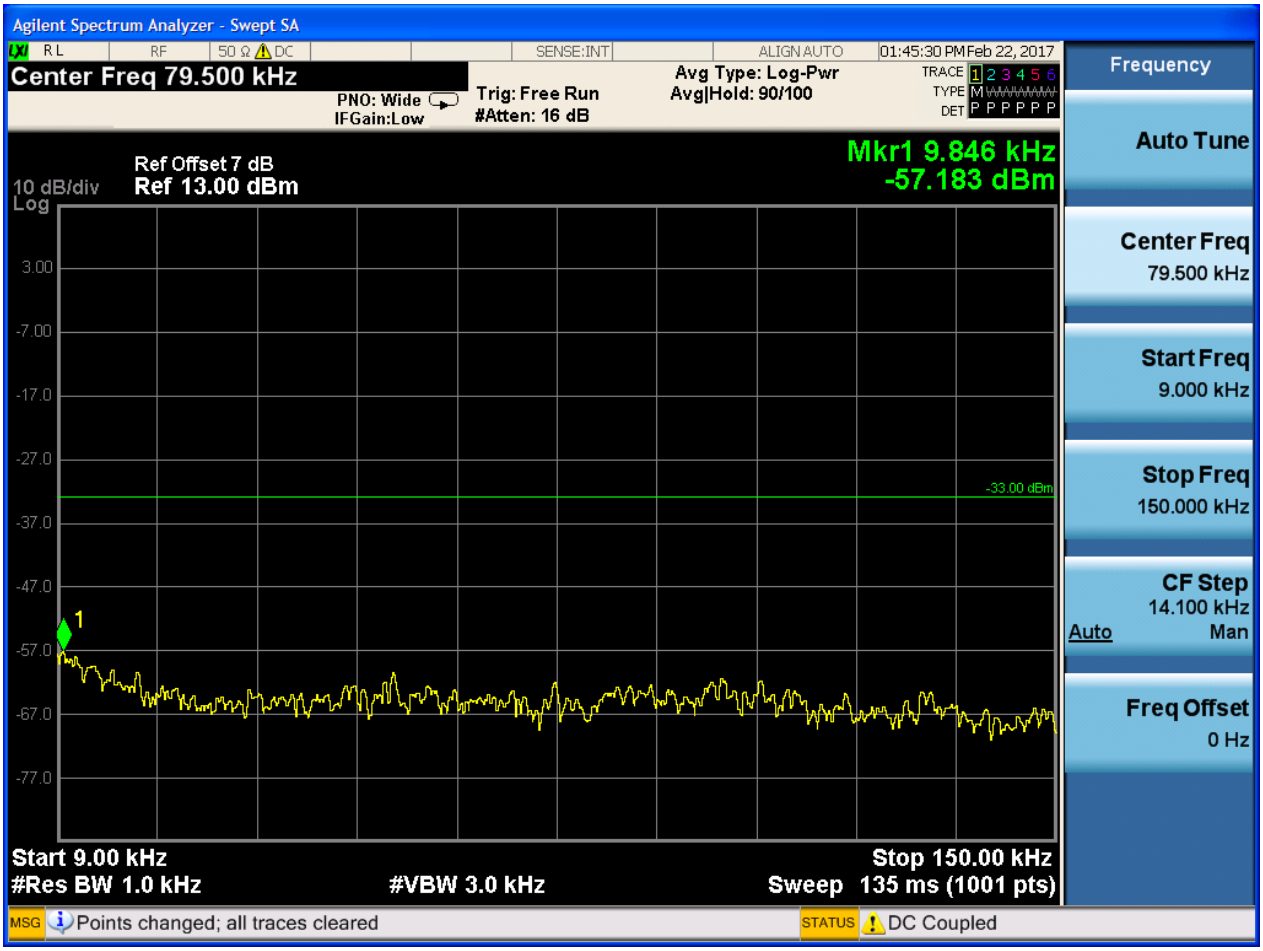
6.1.1.1.3 Test Bandwidth = 5

6.1.1.1.3.1 Test Channel = LCH

6.1.1.1.3.1.1 Test RB = RB1#0



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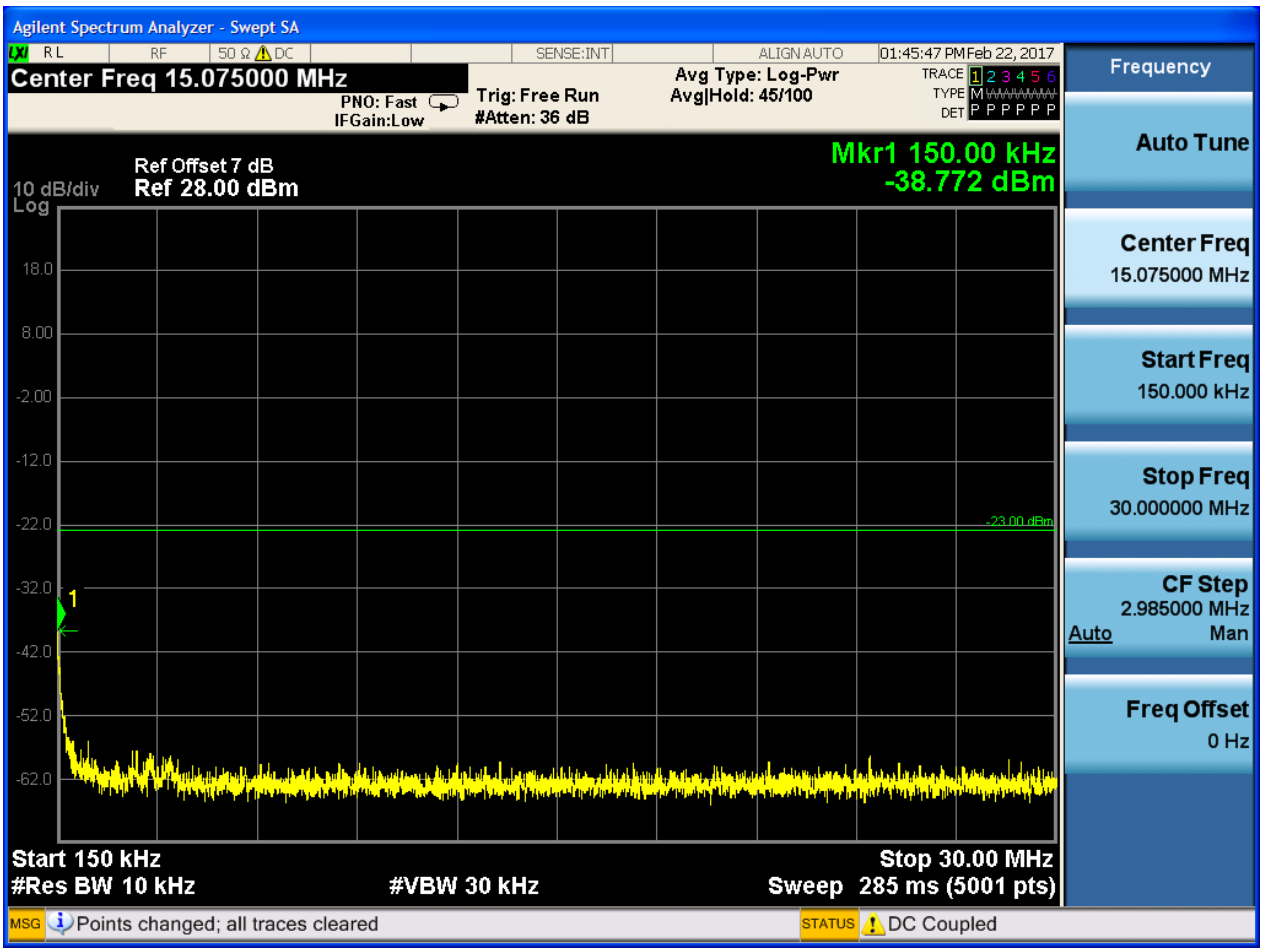

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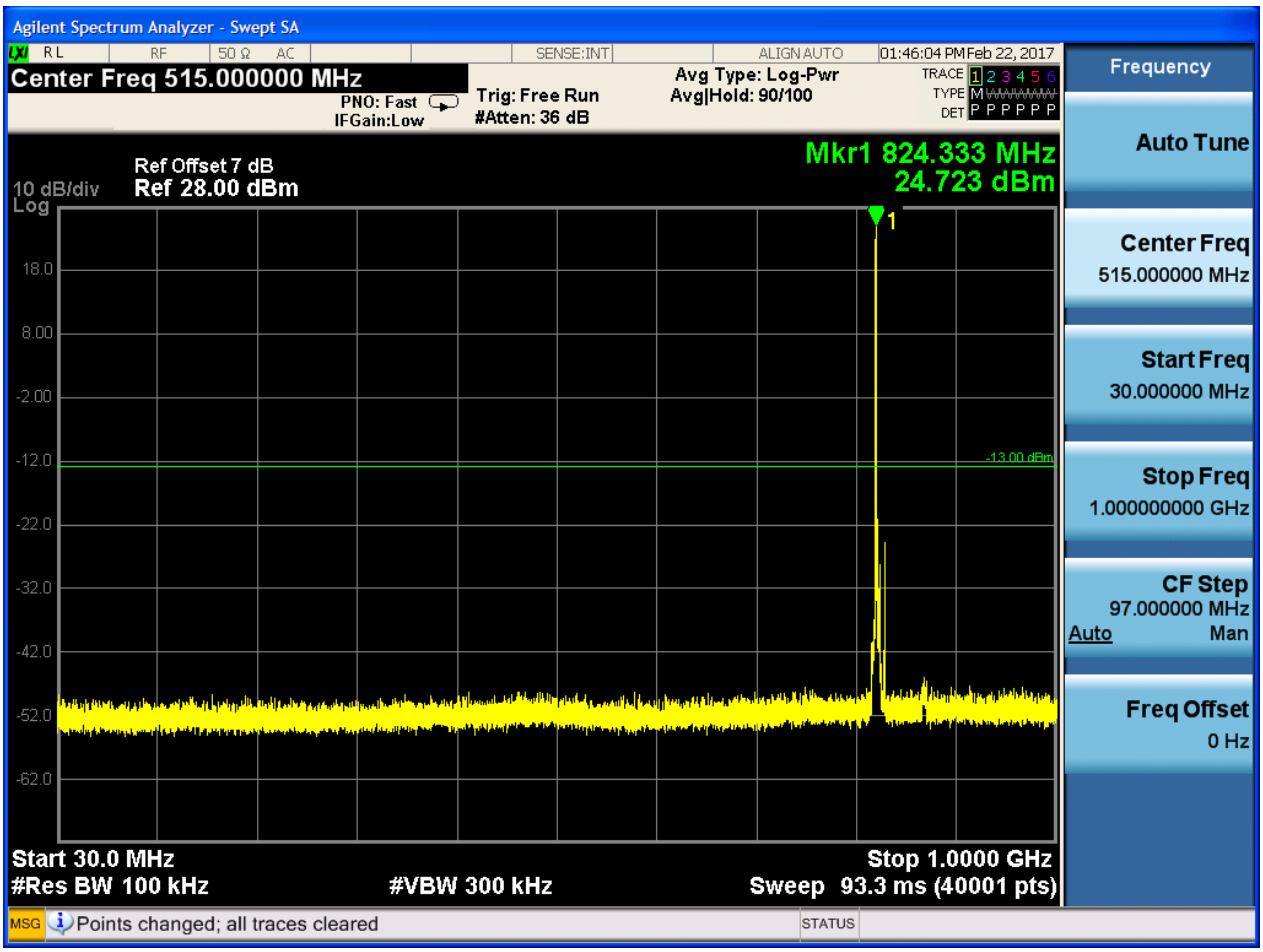

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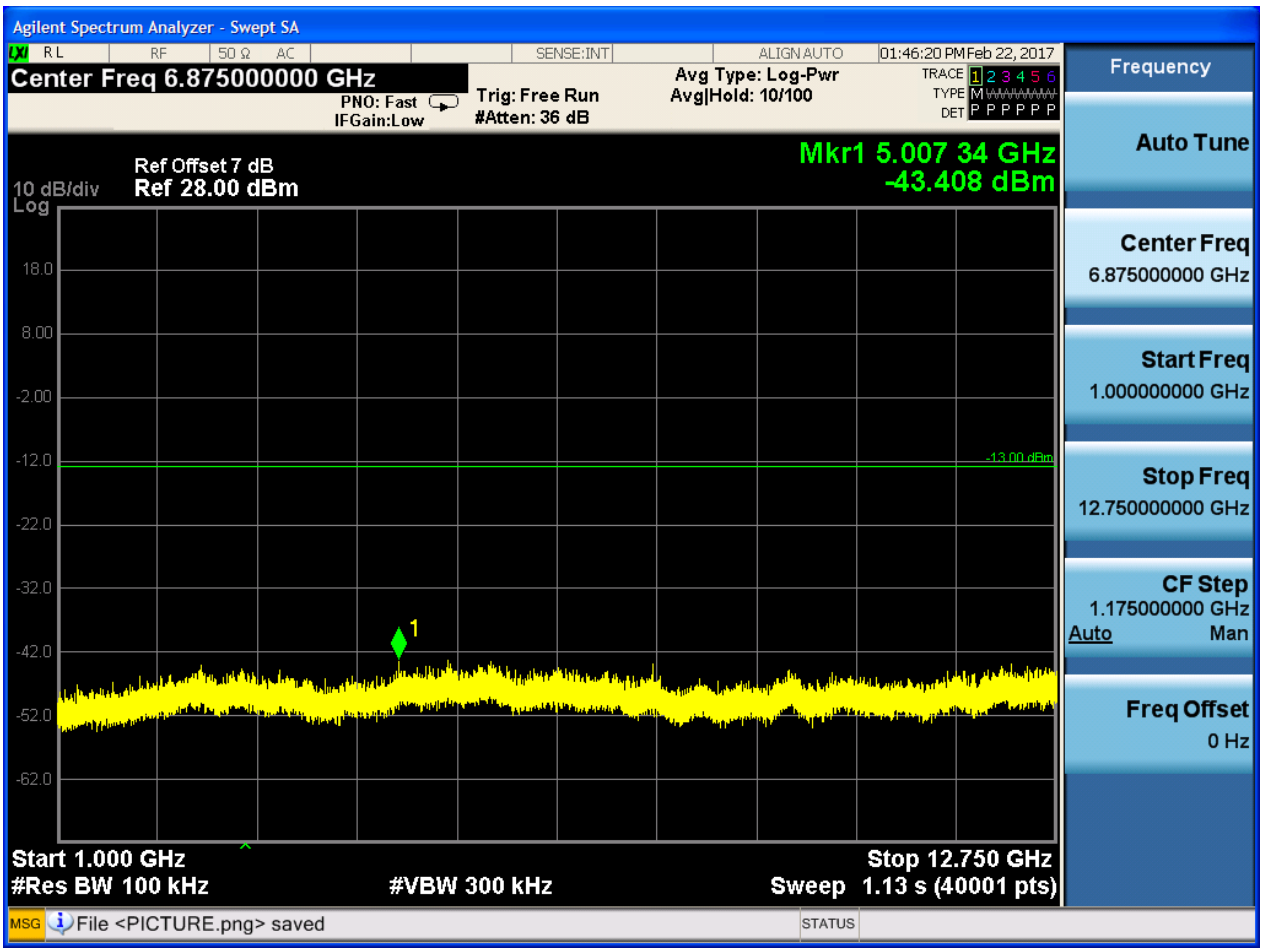

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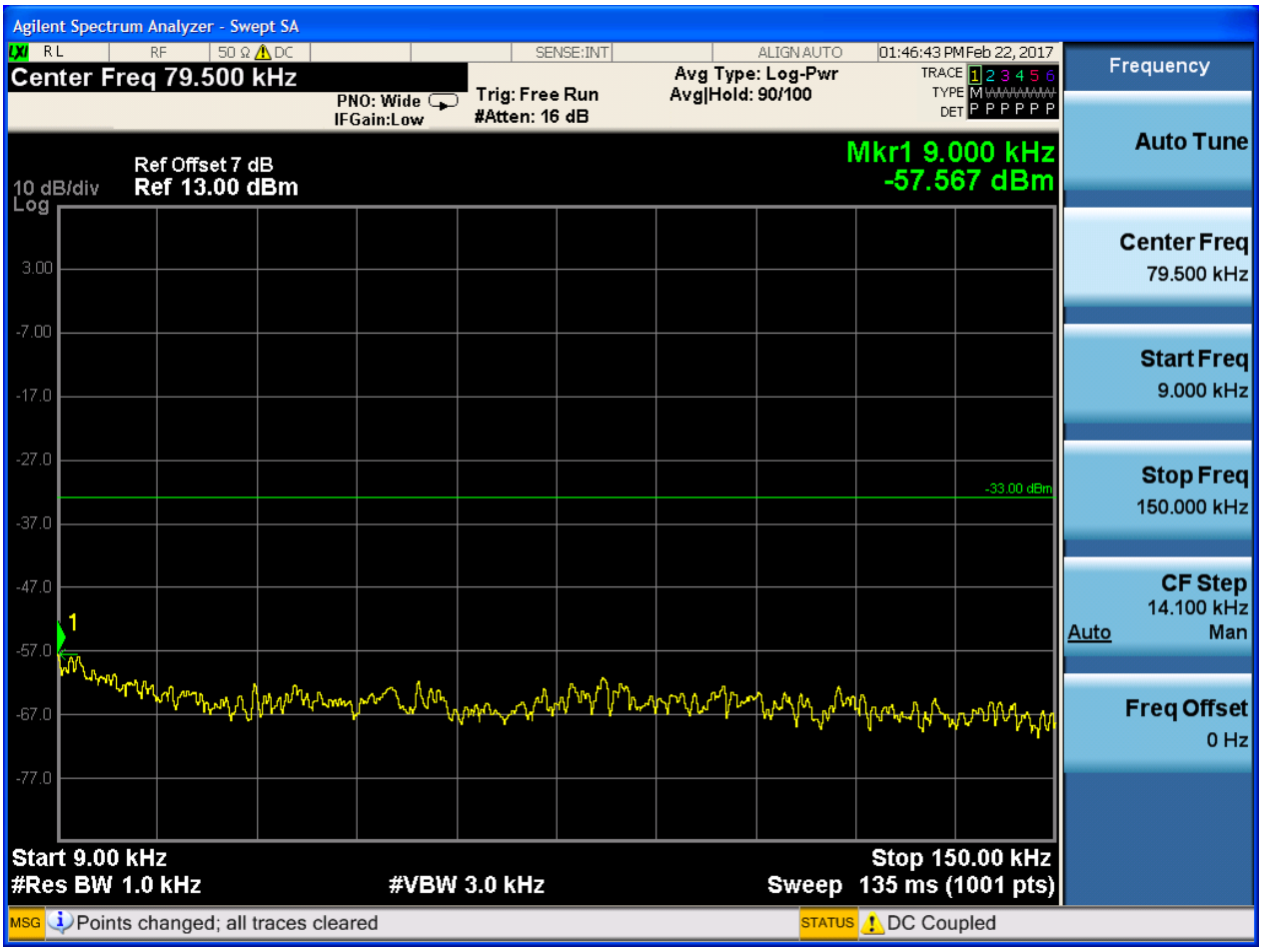
6.1.1.1.3.2 Test Channel = MCH

6.1.1.1.3.2.1 Test RB = RB1#0



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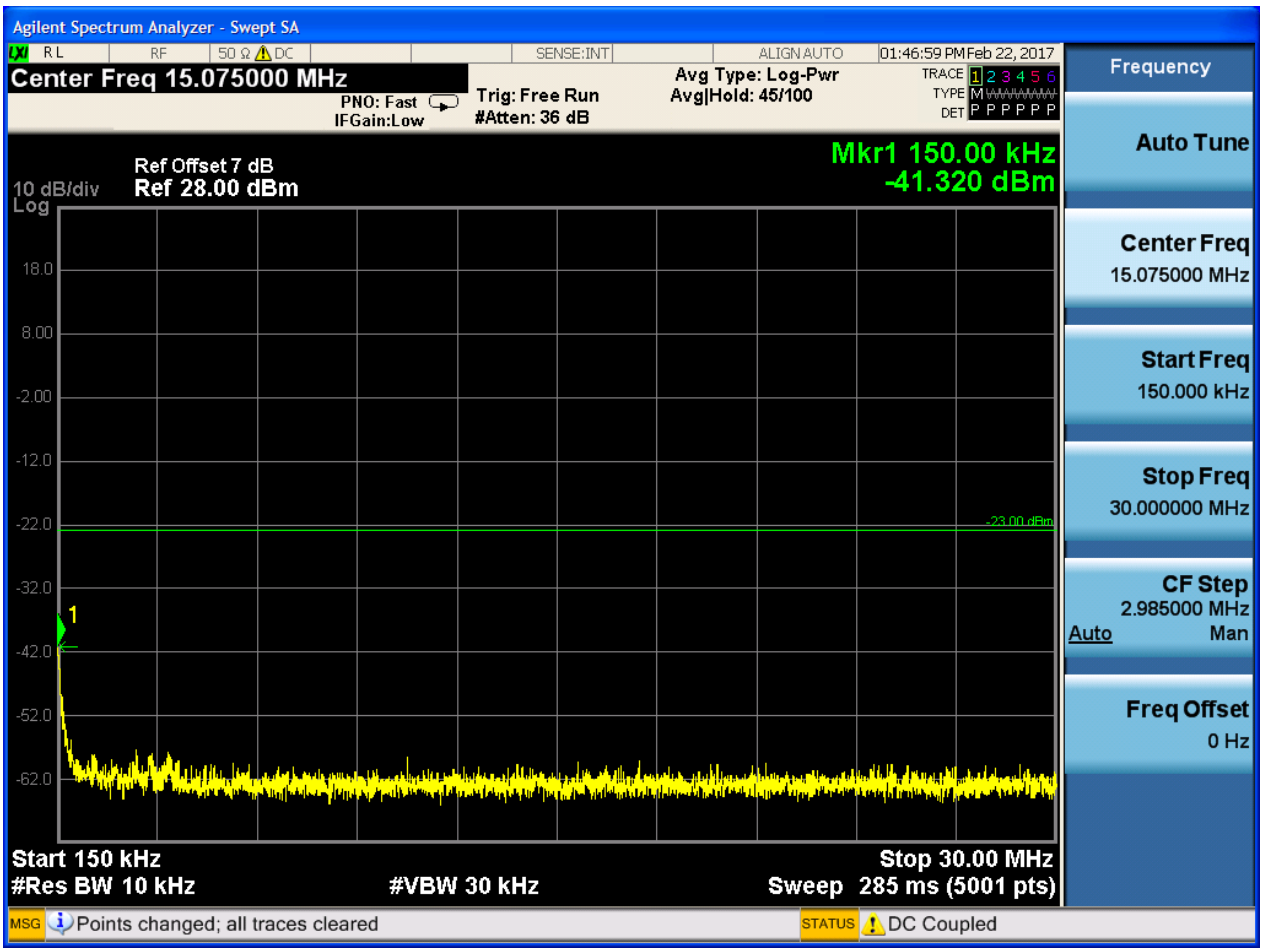

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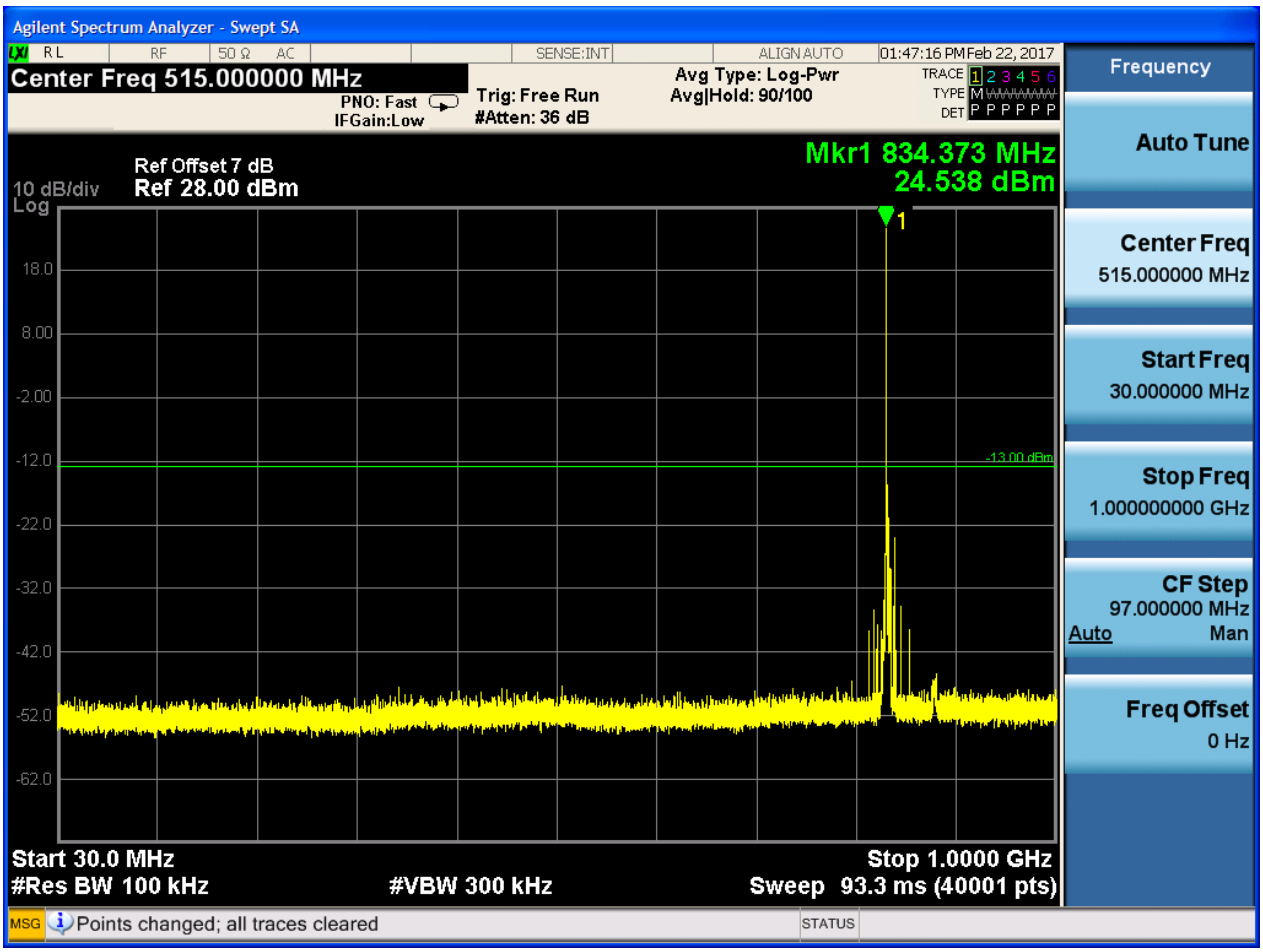

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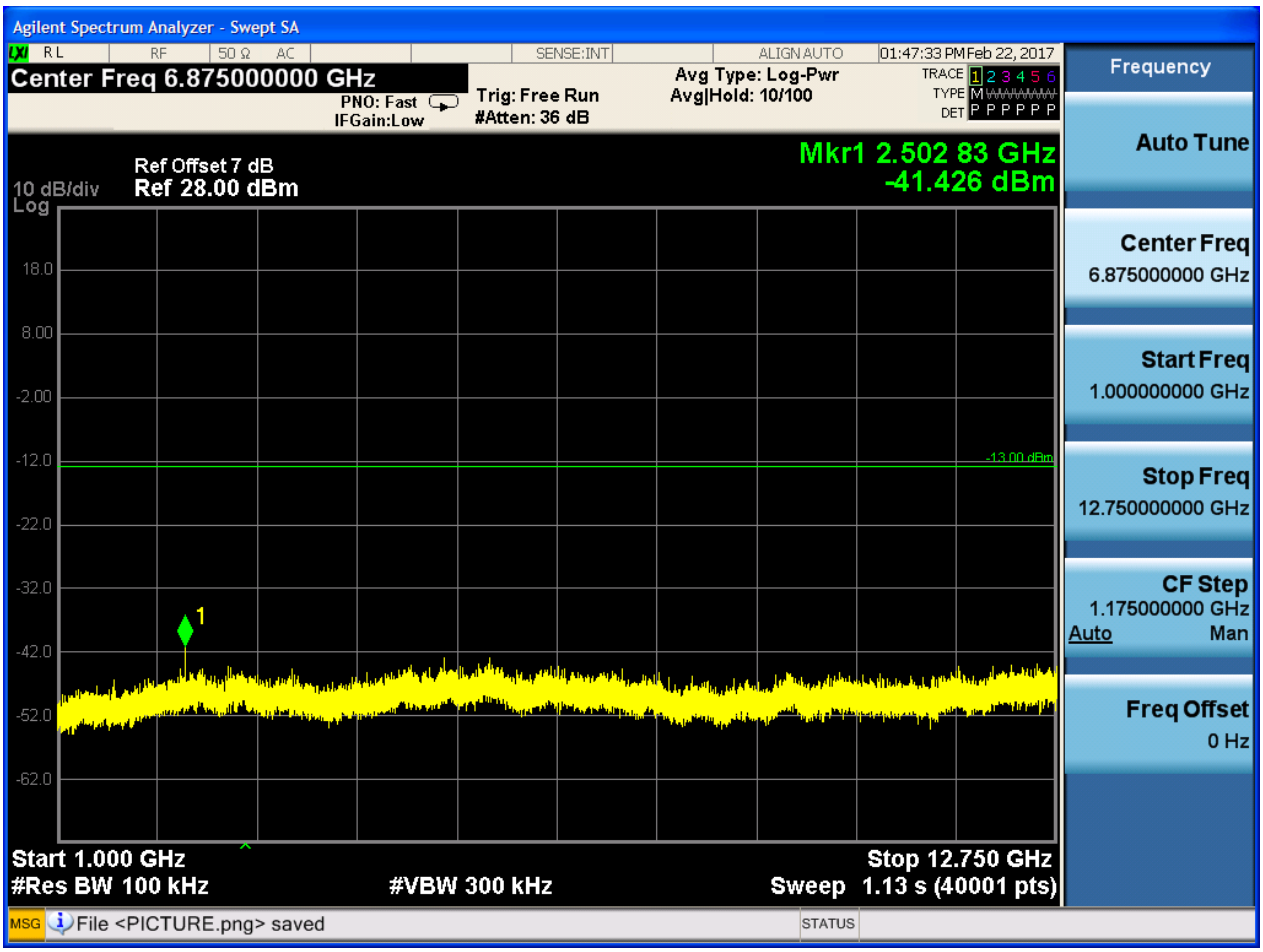

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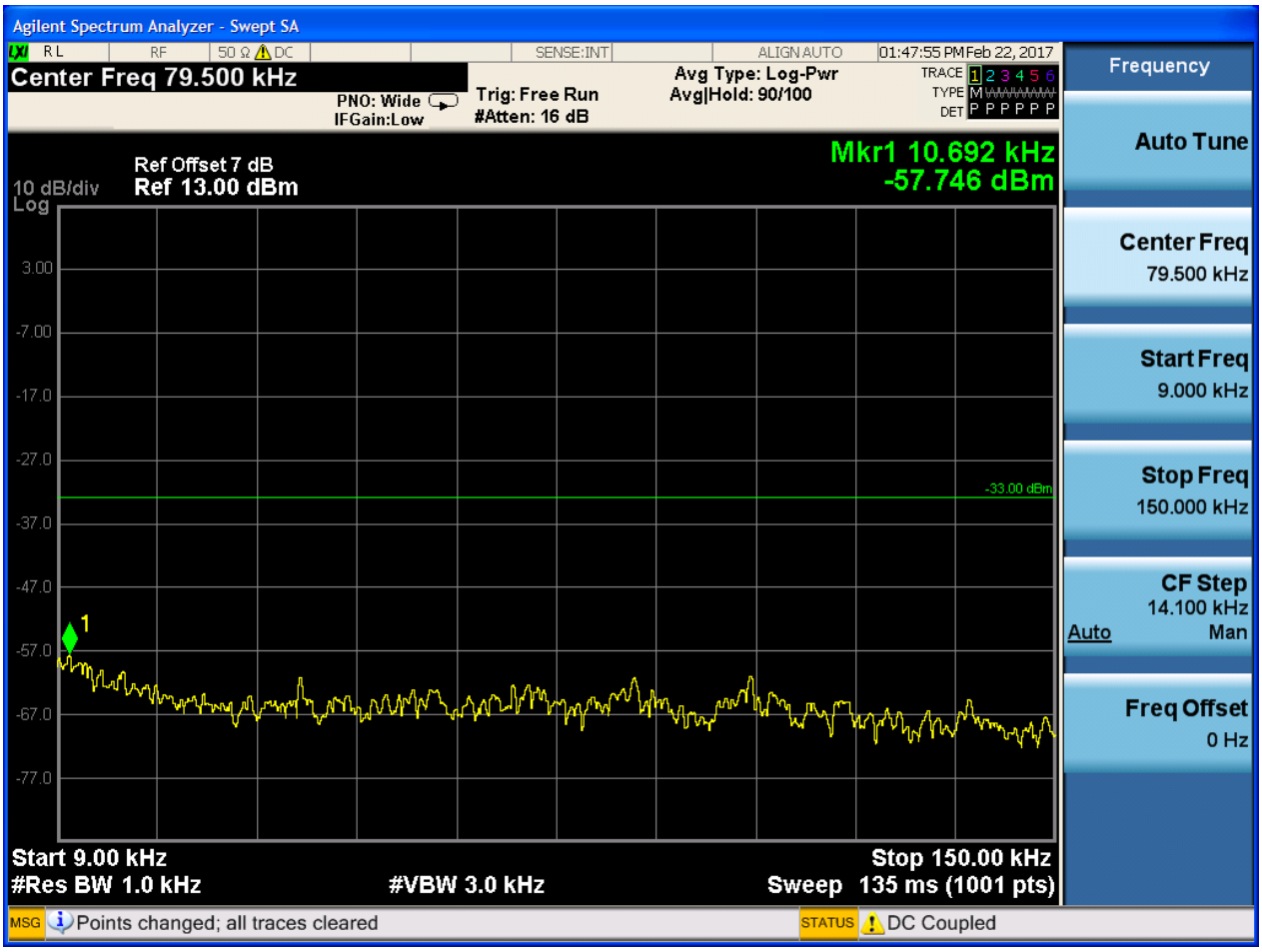
6.1.1.1.3.3 Test Channel = HCH

6.1.1.1.3.3.1 Test RB = RB1#0



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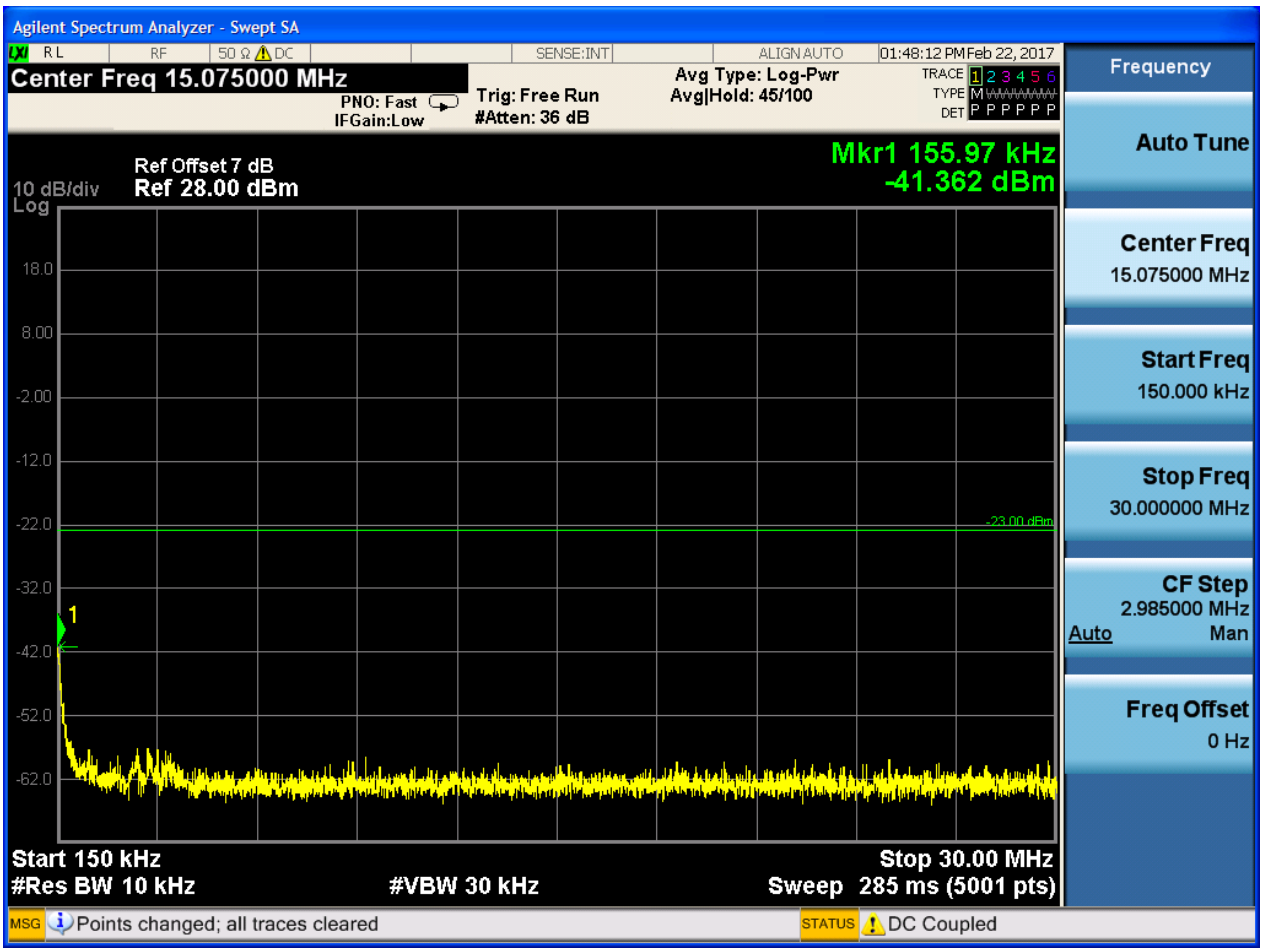

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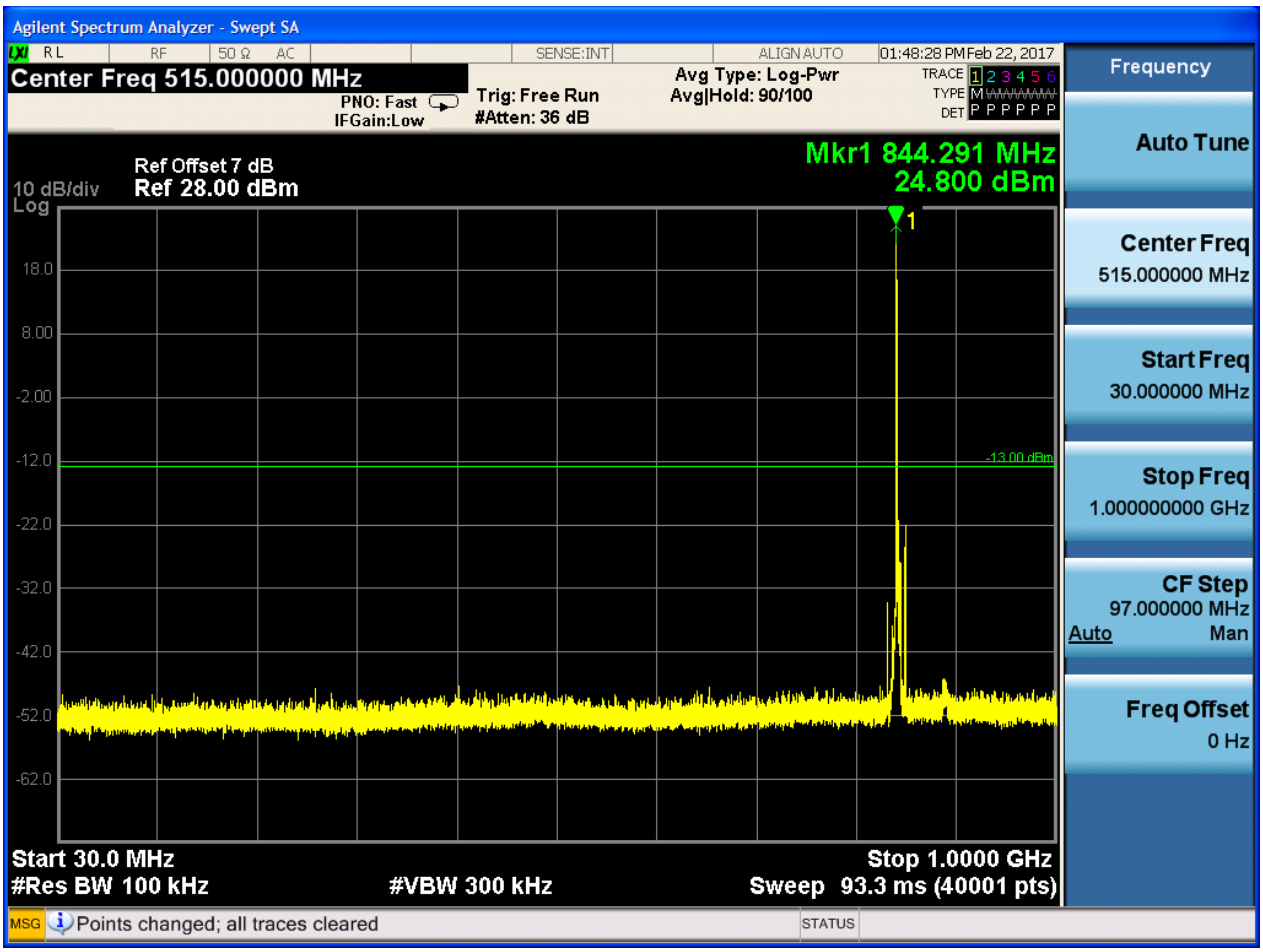

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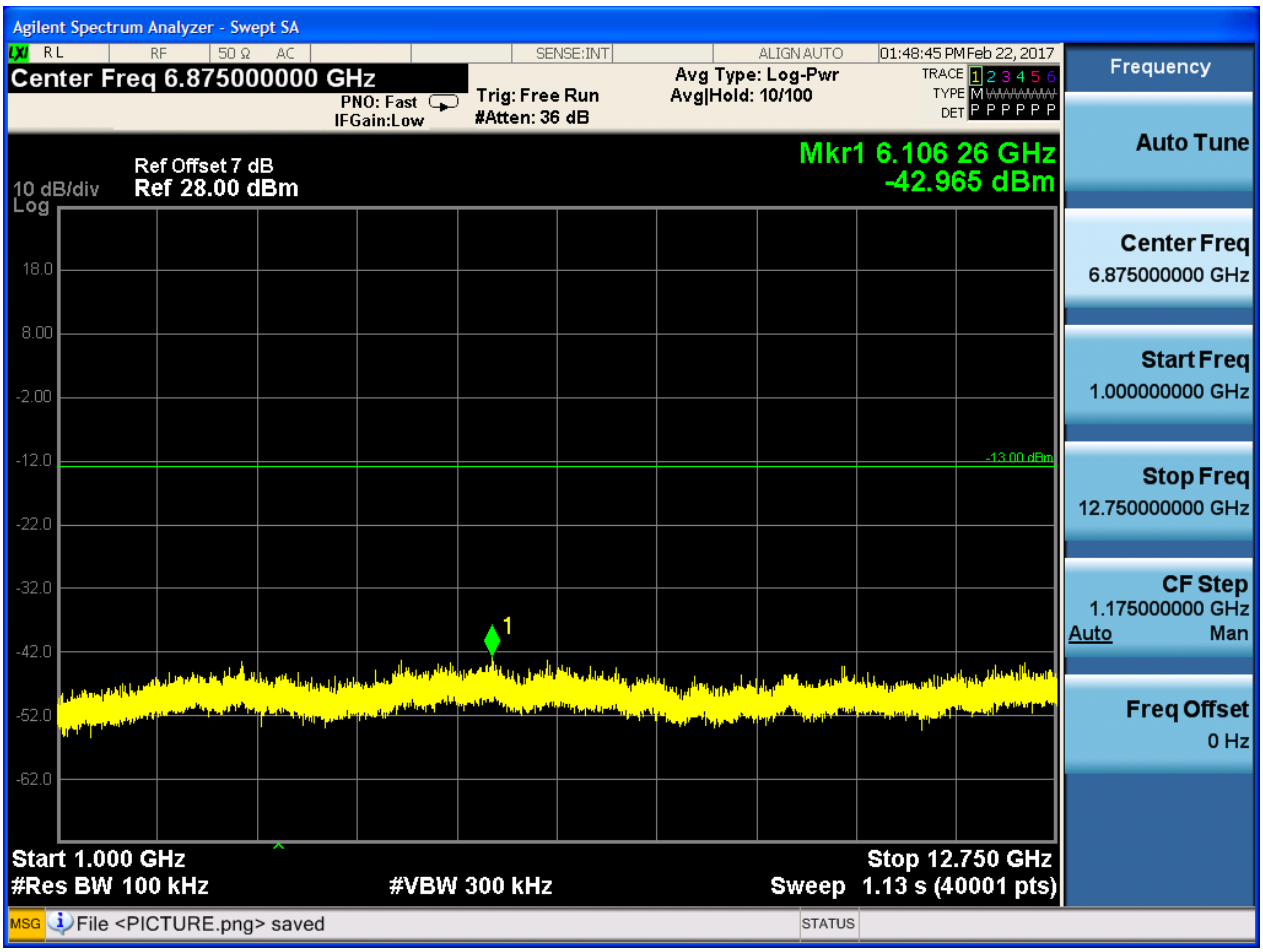

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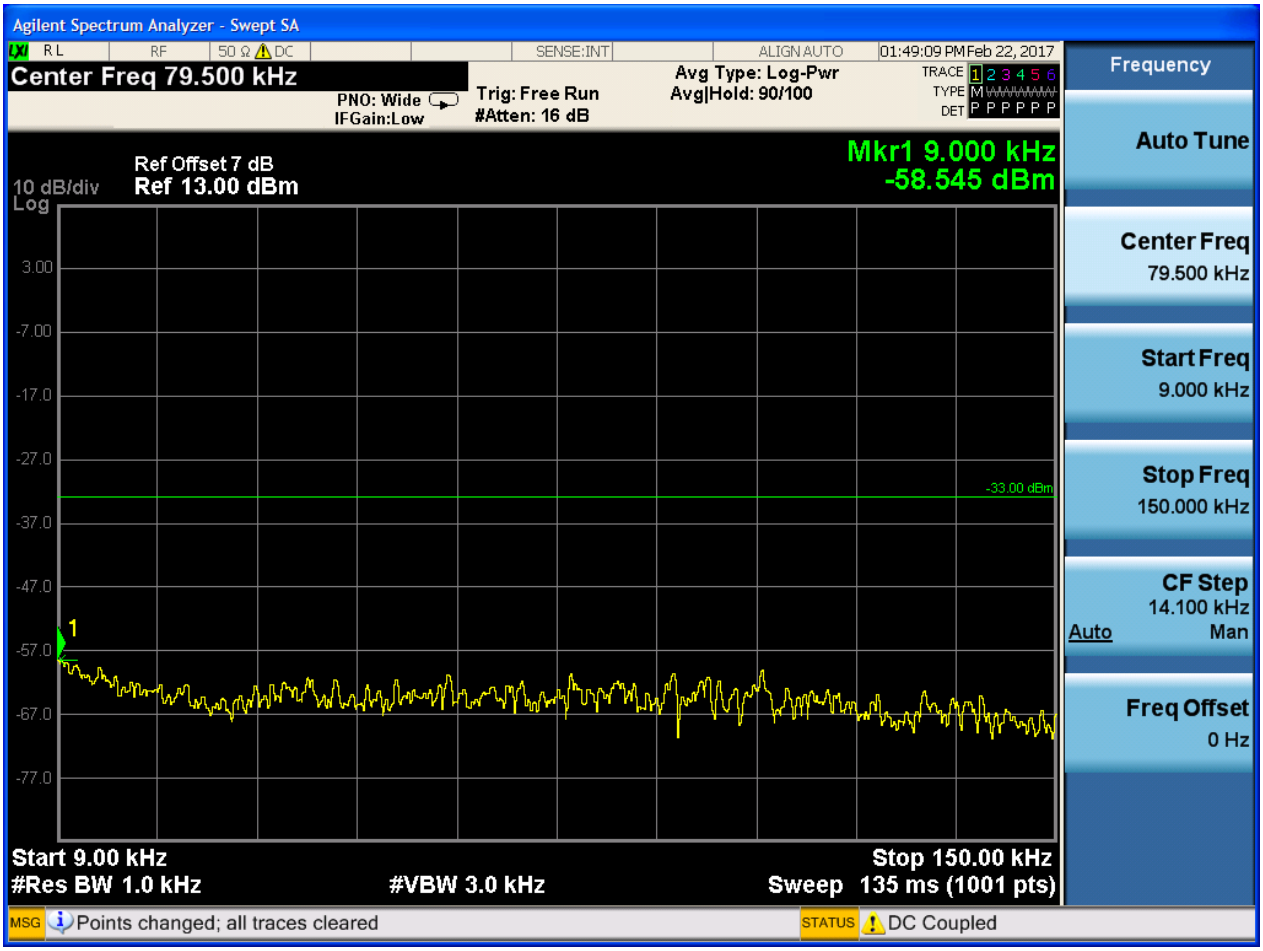
6.1.1.1.4 Test Bandwidth = 10

6.1.1.1.4.1 Test Channel = LCH

6.1.1.1.4.1.1 Test RB = RB1#0



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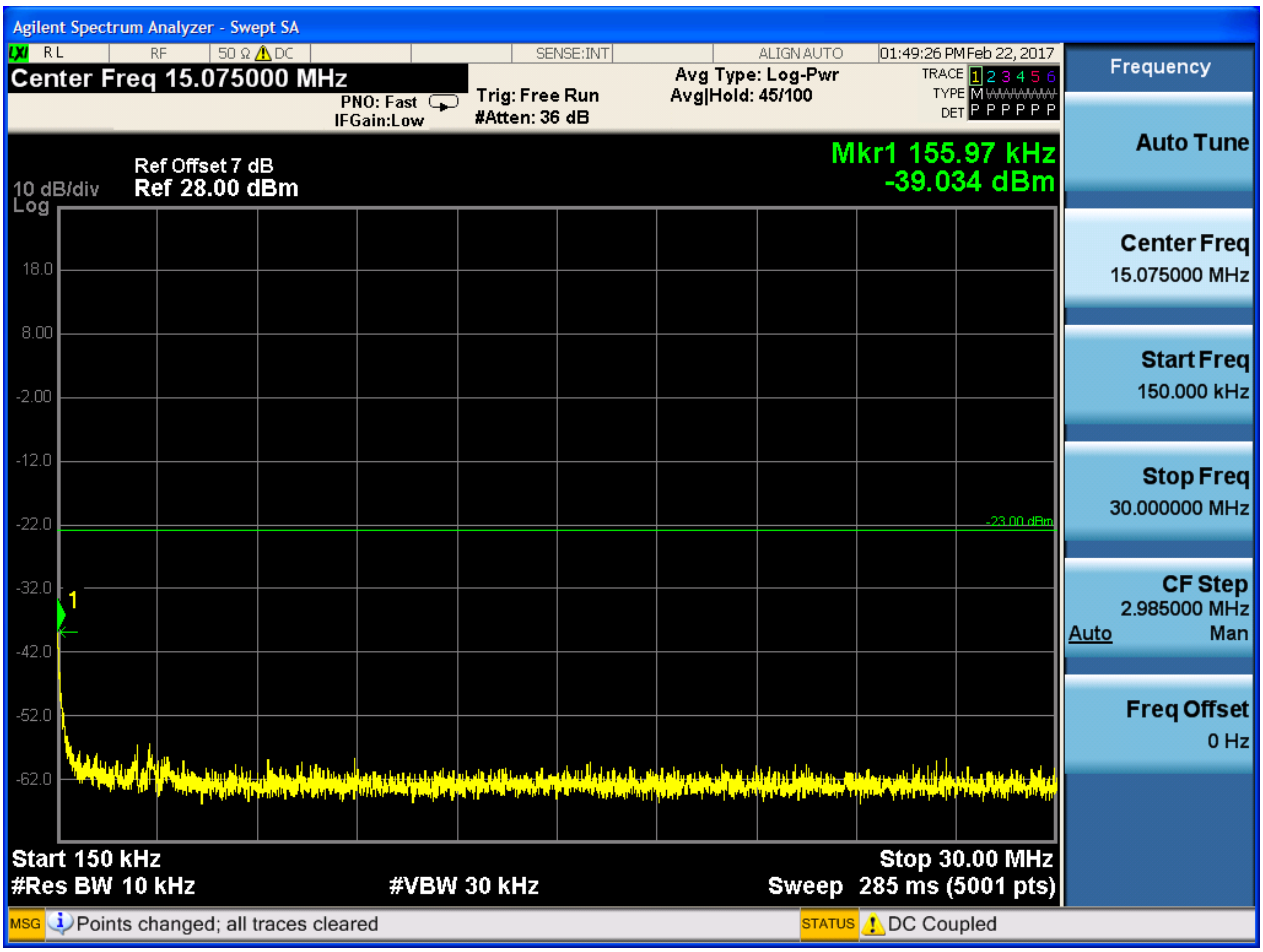

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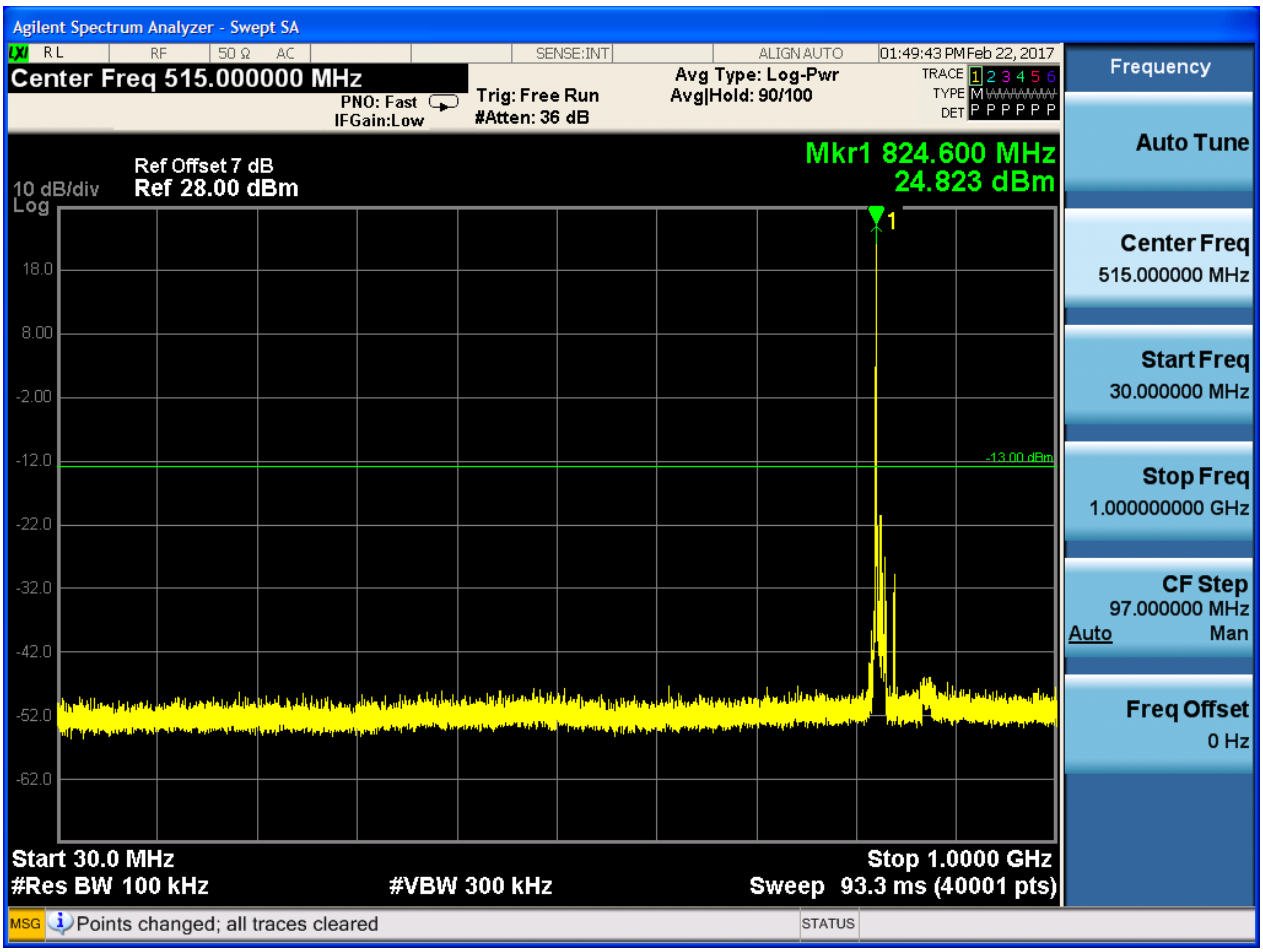

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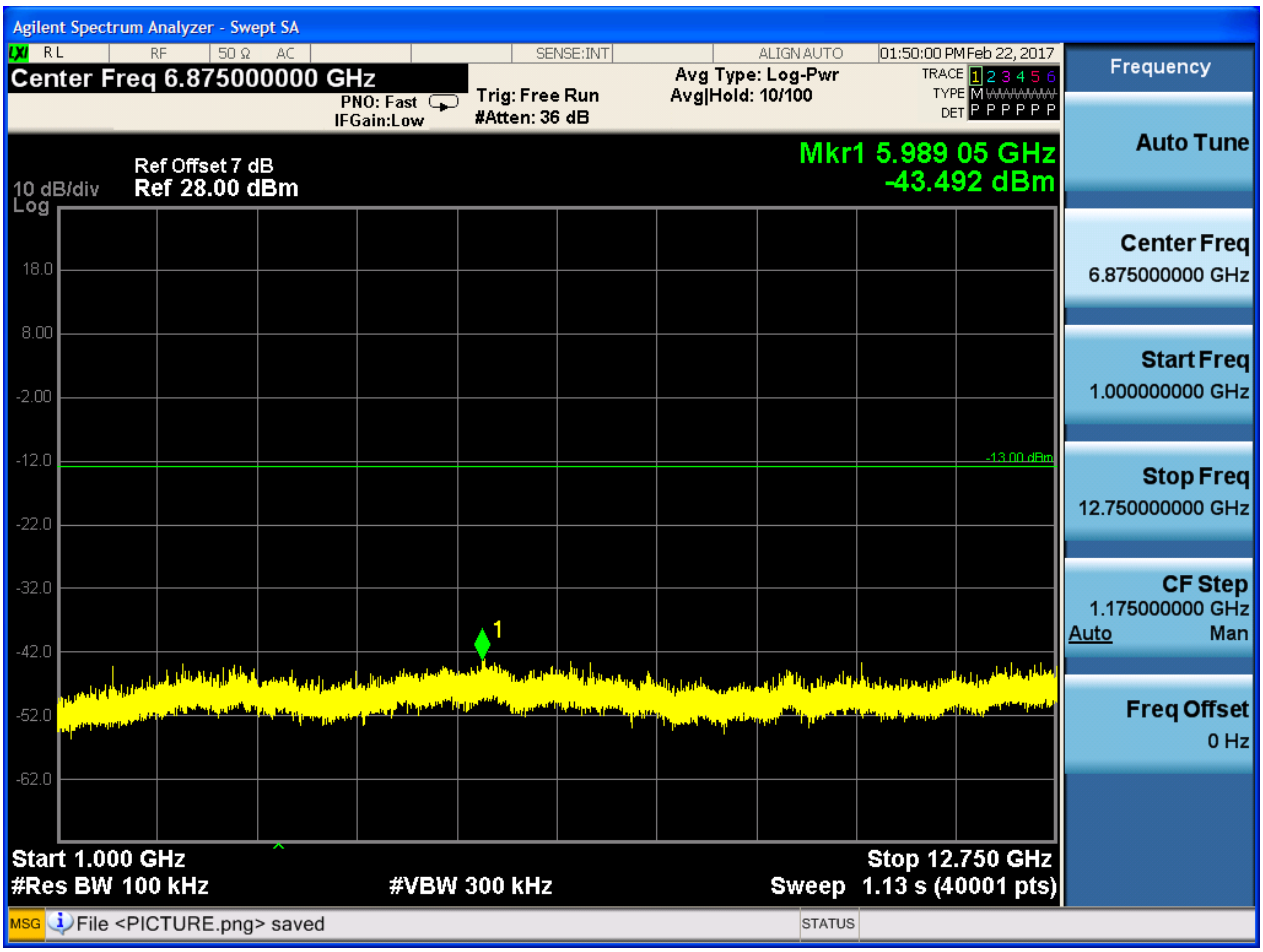

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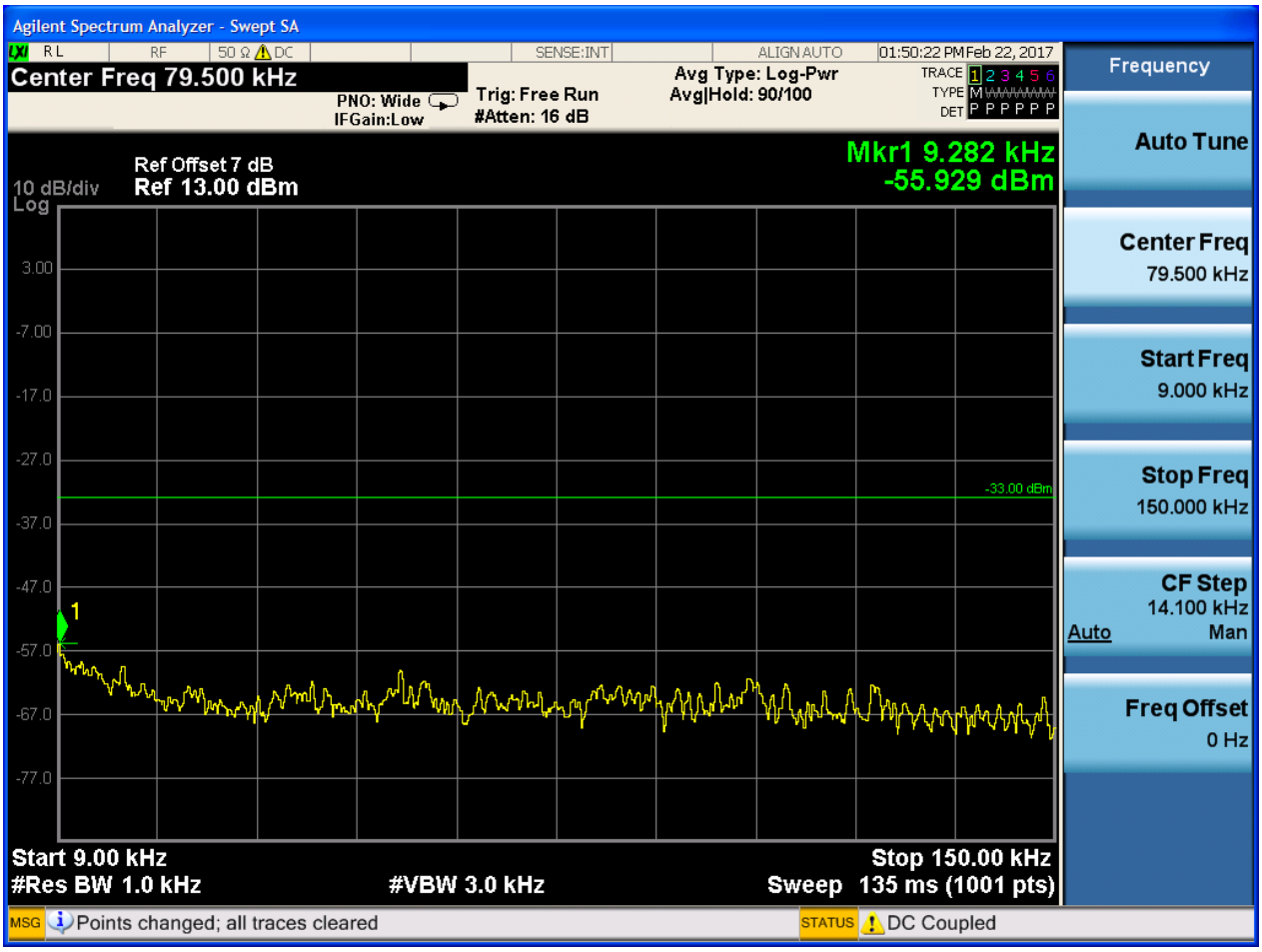
6.1.1.1.4.2 Test Channel = MCH

6.1.1.1.4.2.1 Test RB = RB1#0



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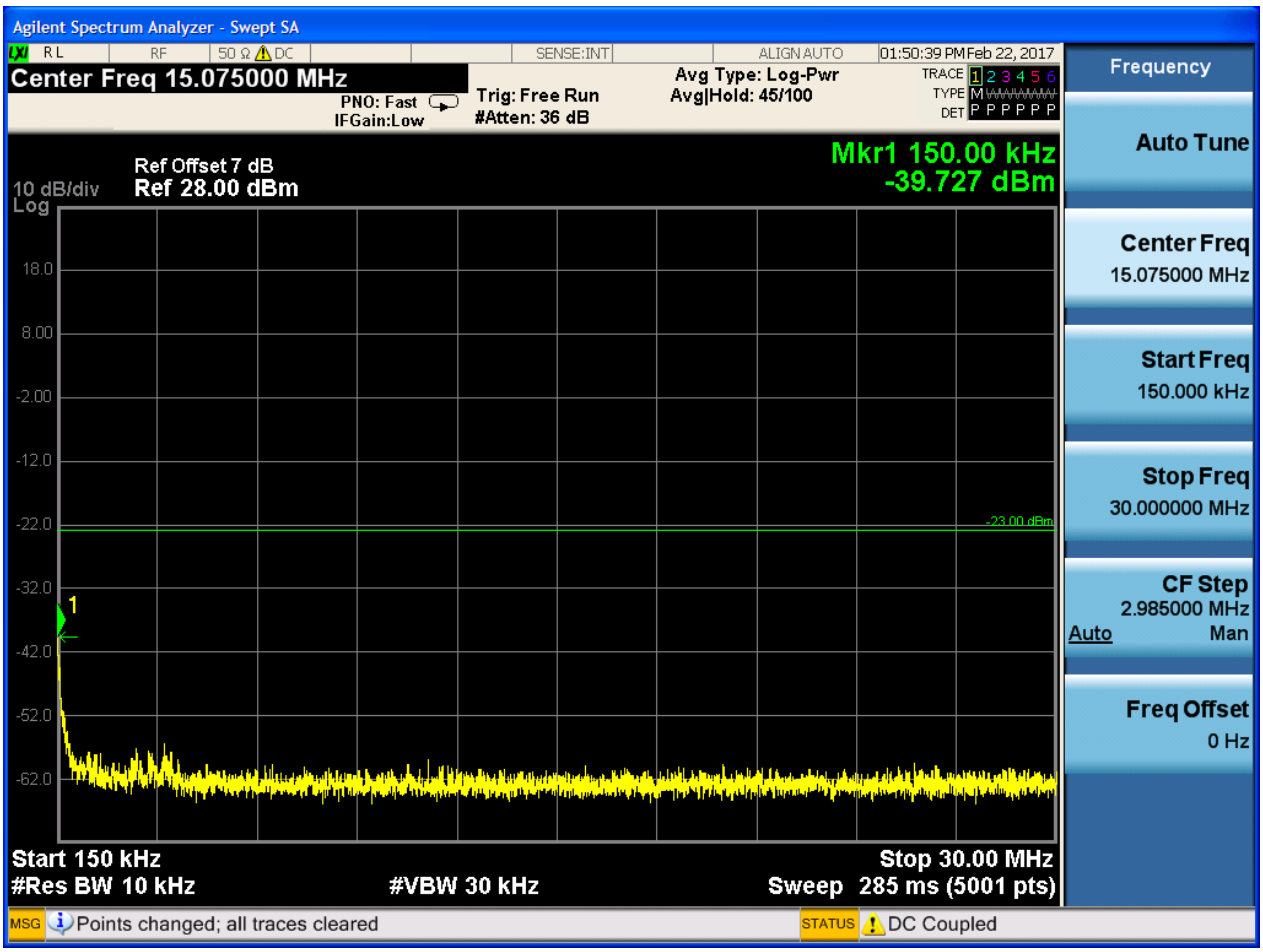

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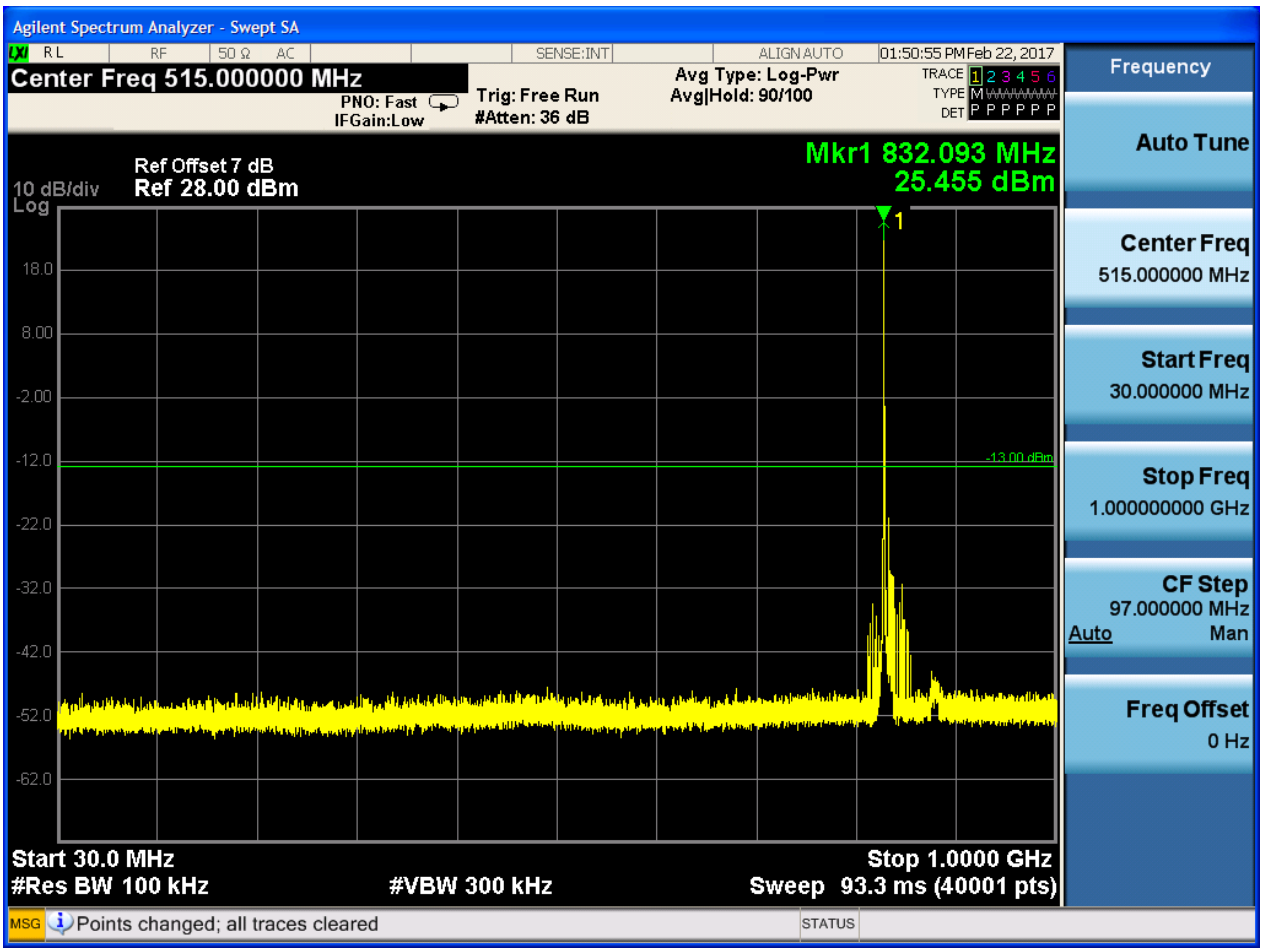

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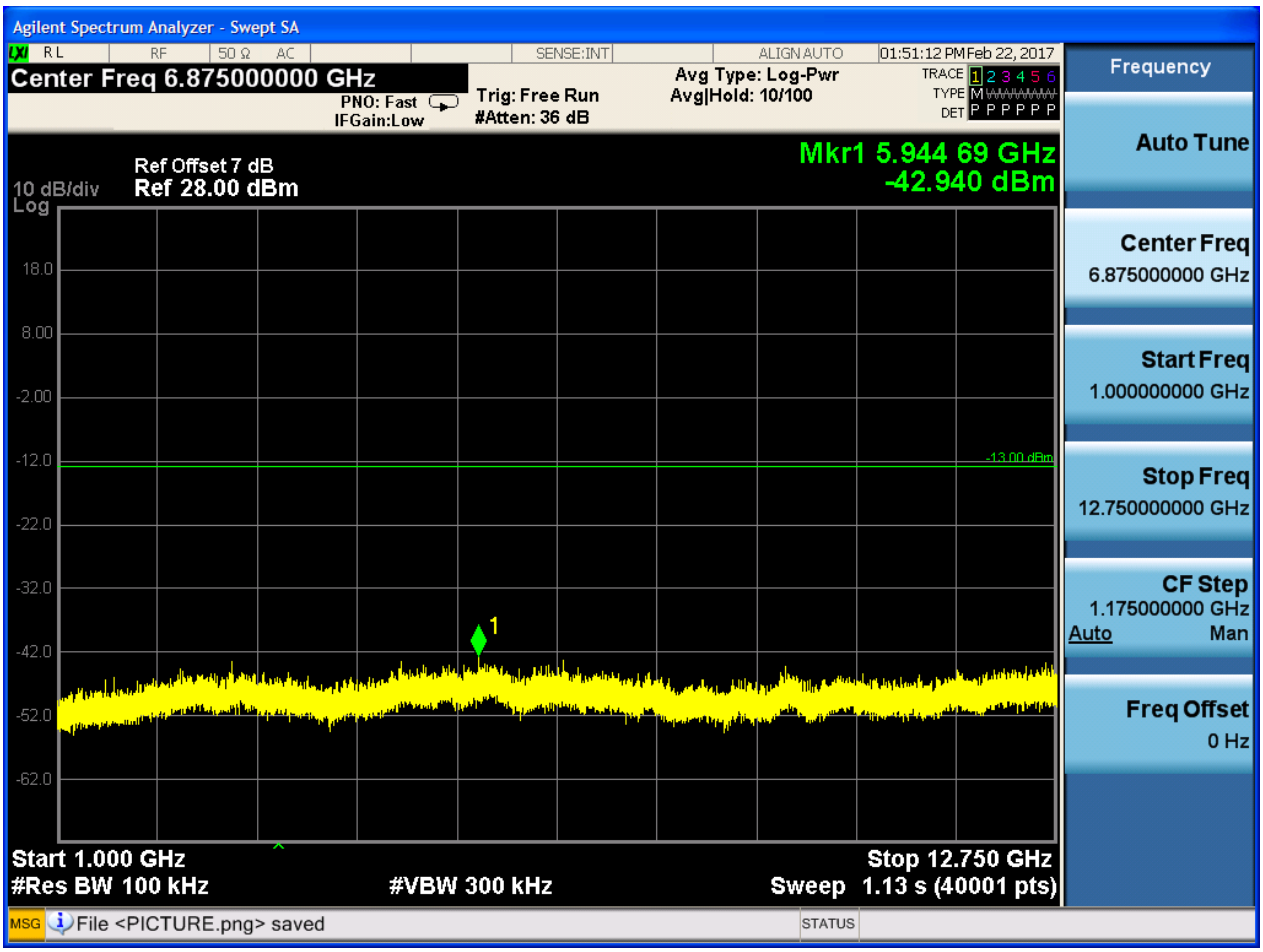

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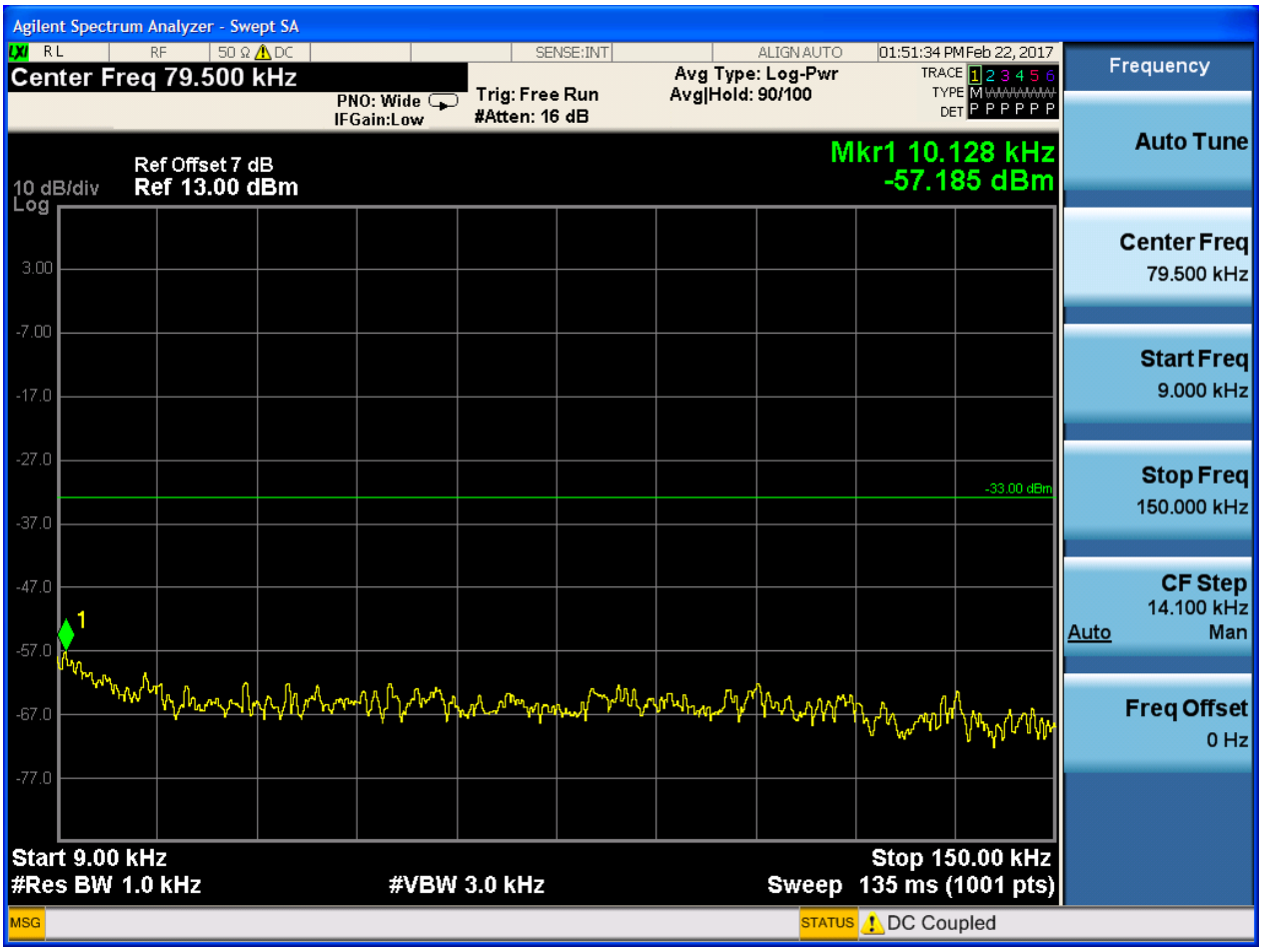
6.1.1.1.4.3 Test Channel = HCH

6.1.1.1.4.3.1 Test RB = RB1#0



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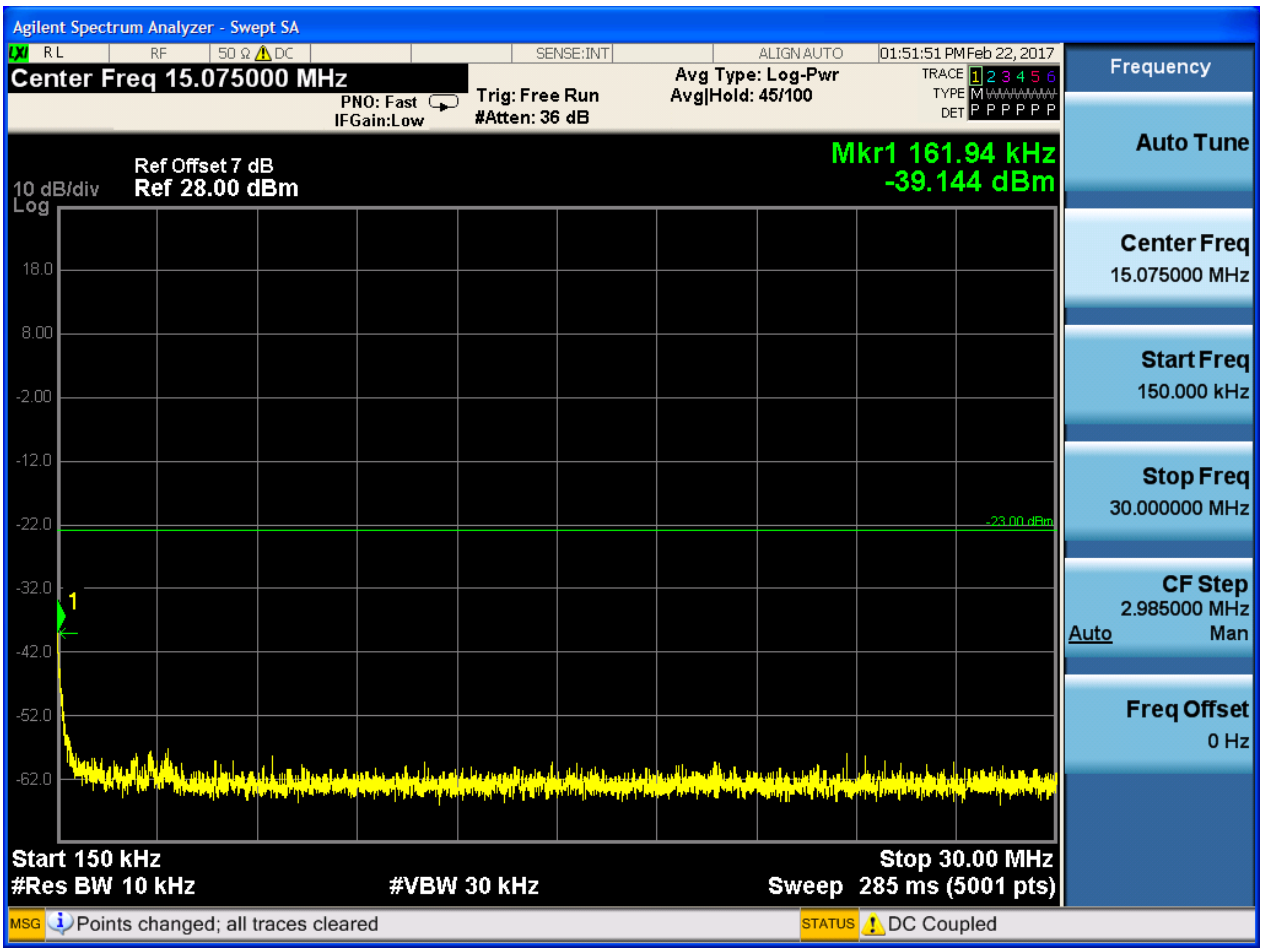

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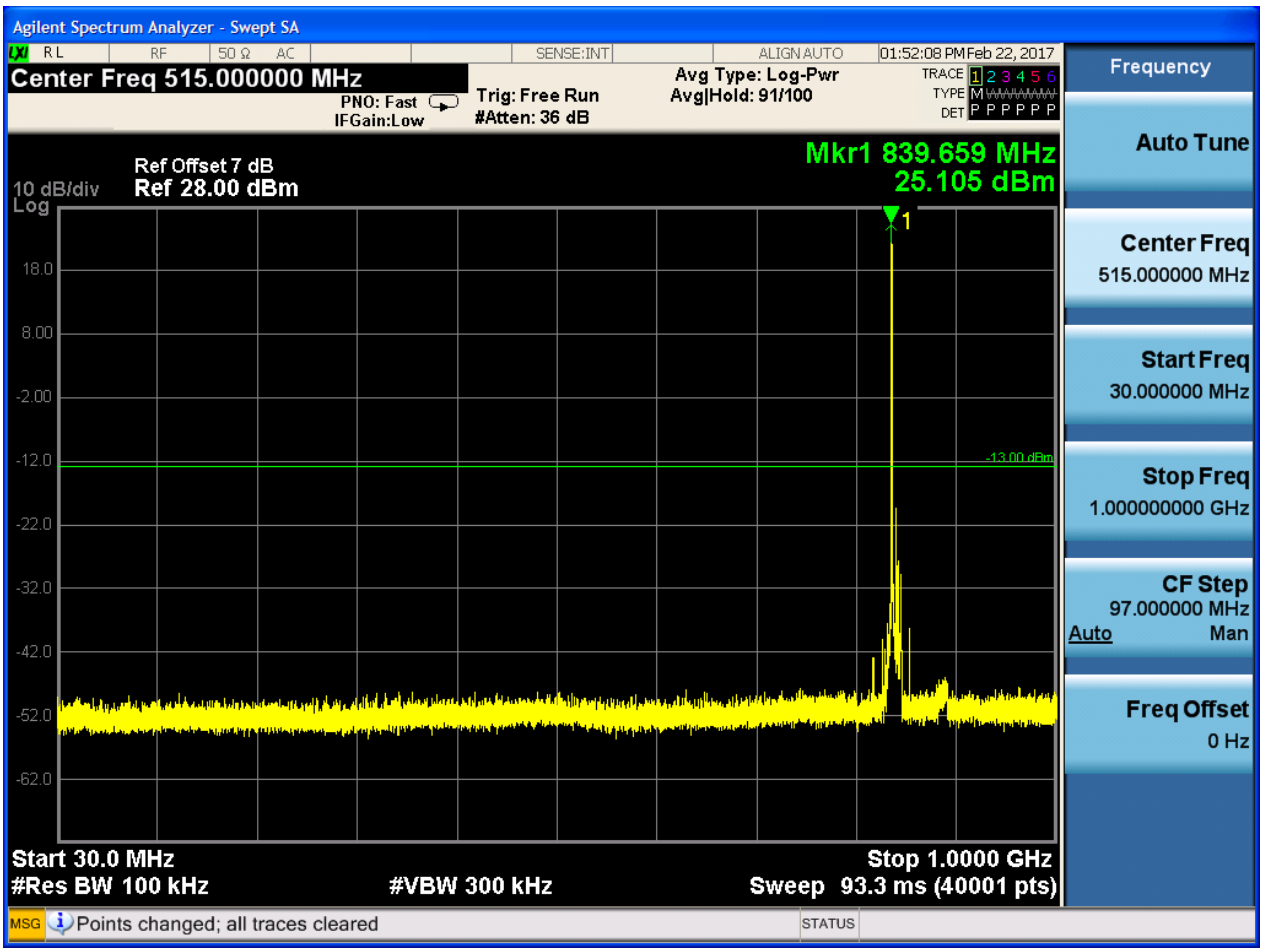

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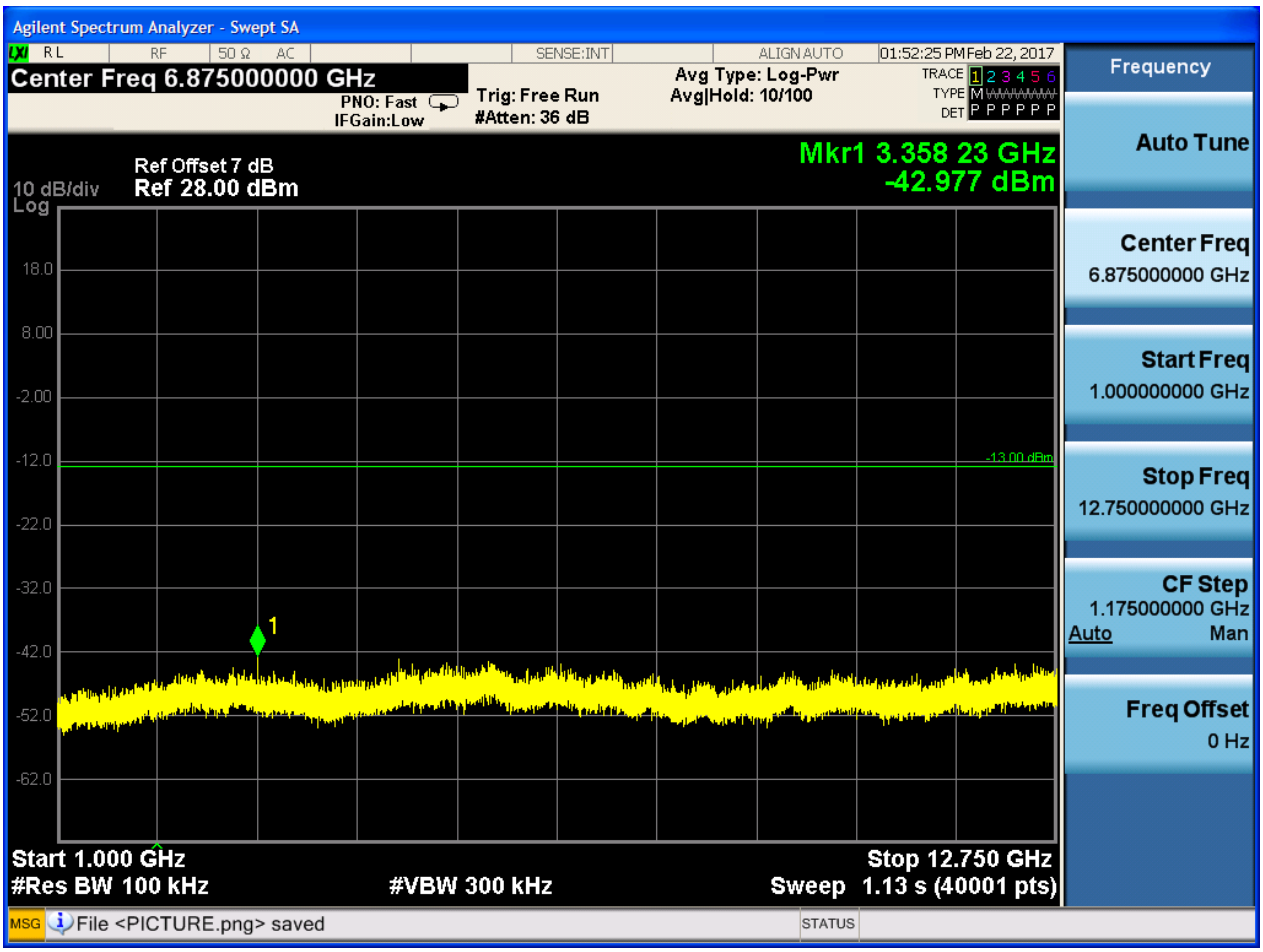

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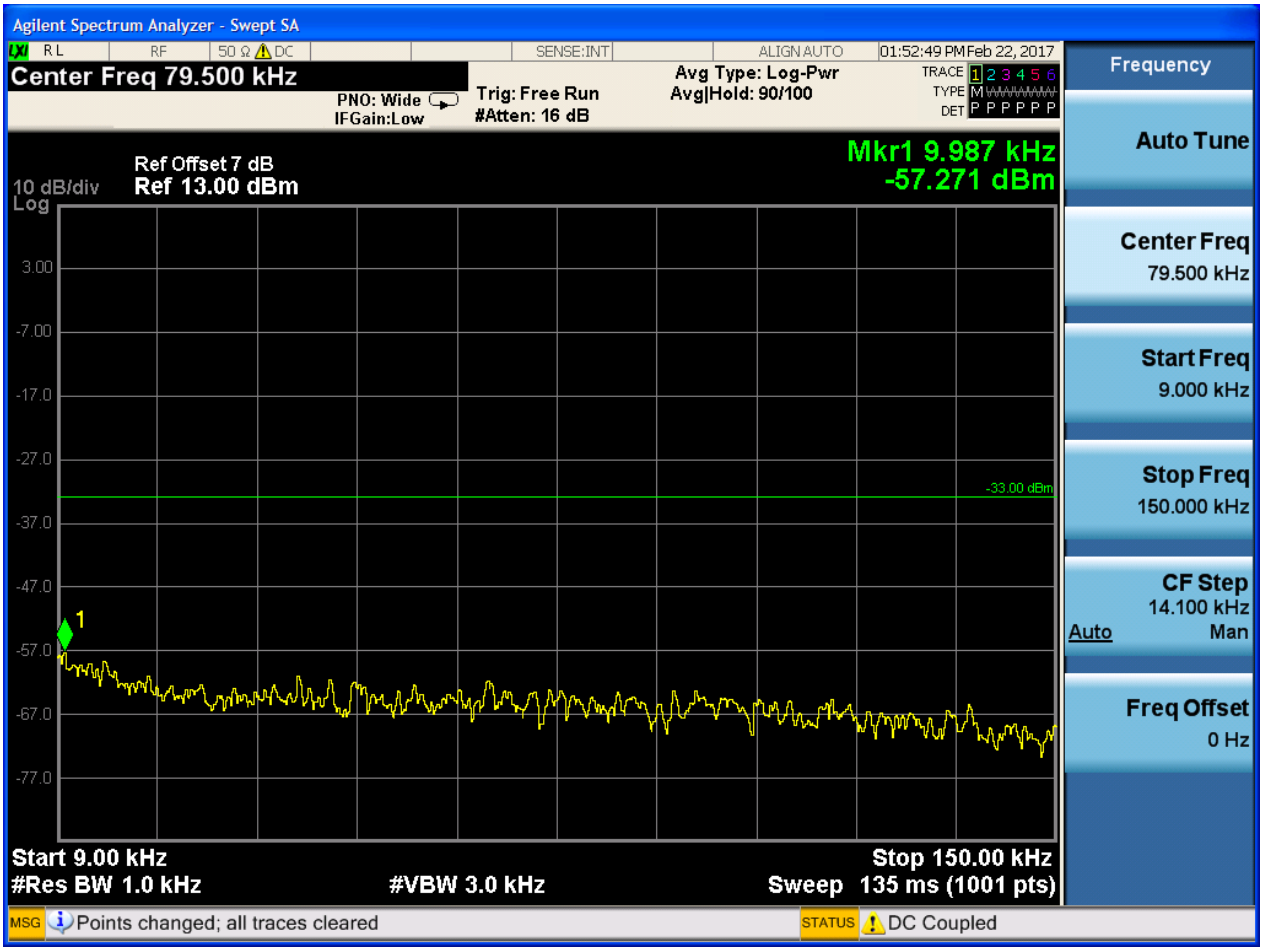
6.1.1.2 Test Mode = LTE/TM2

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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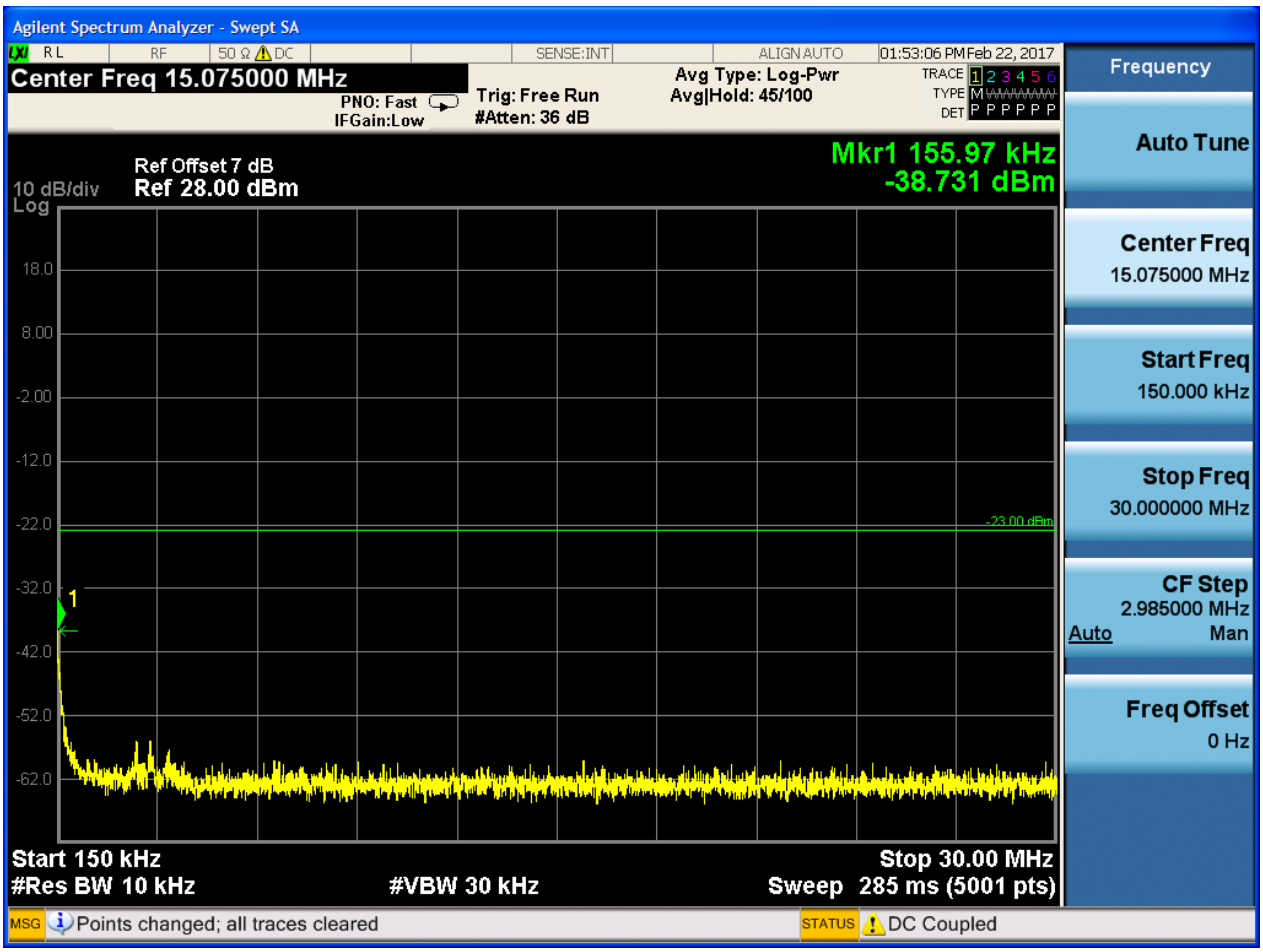

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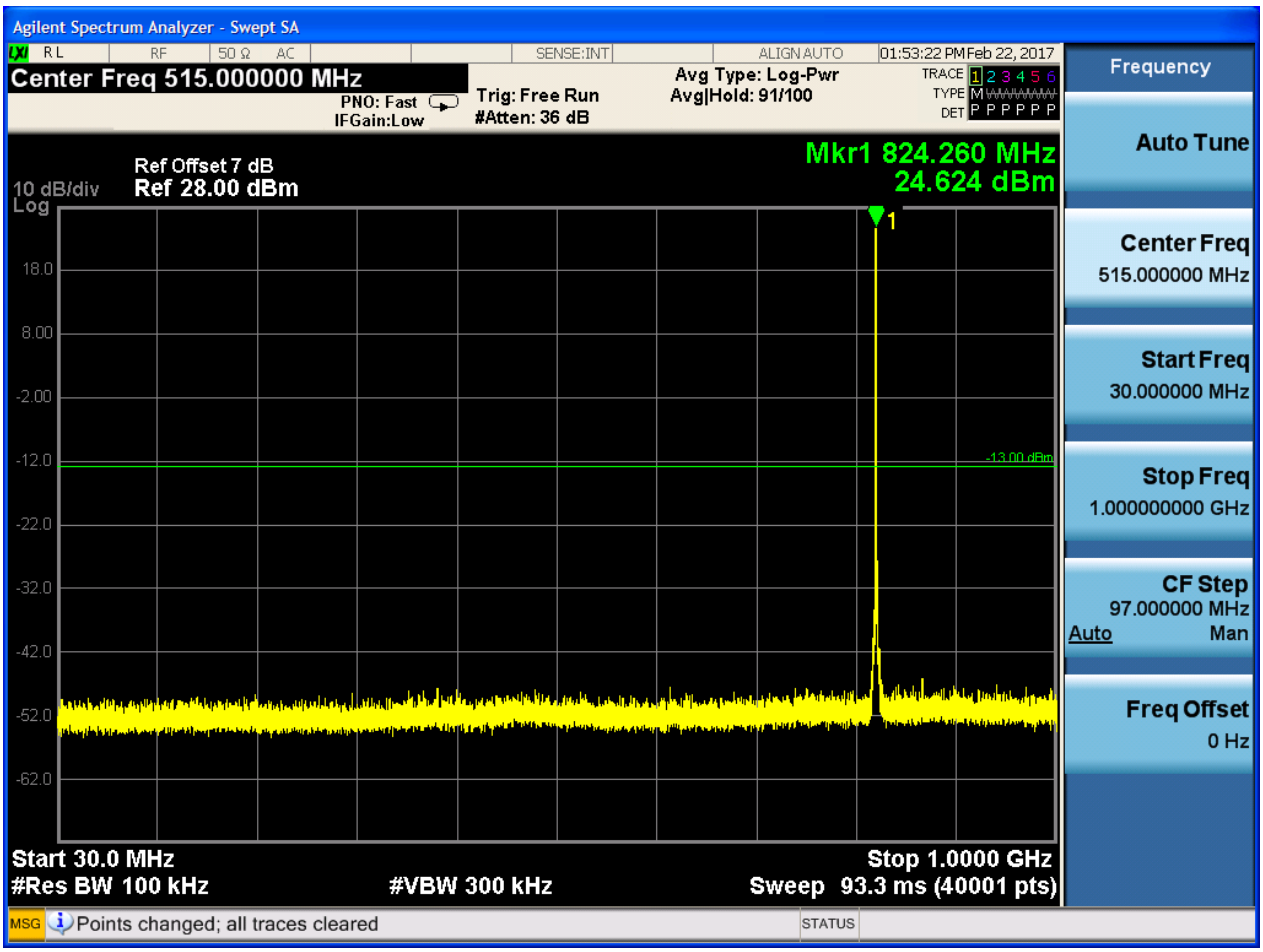

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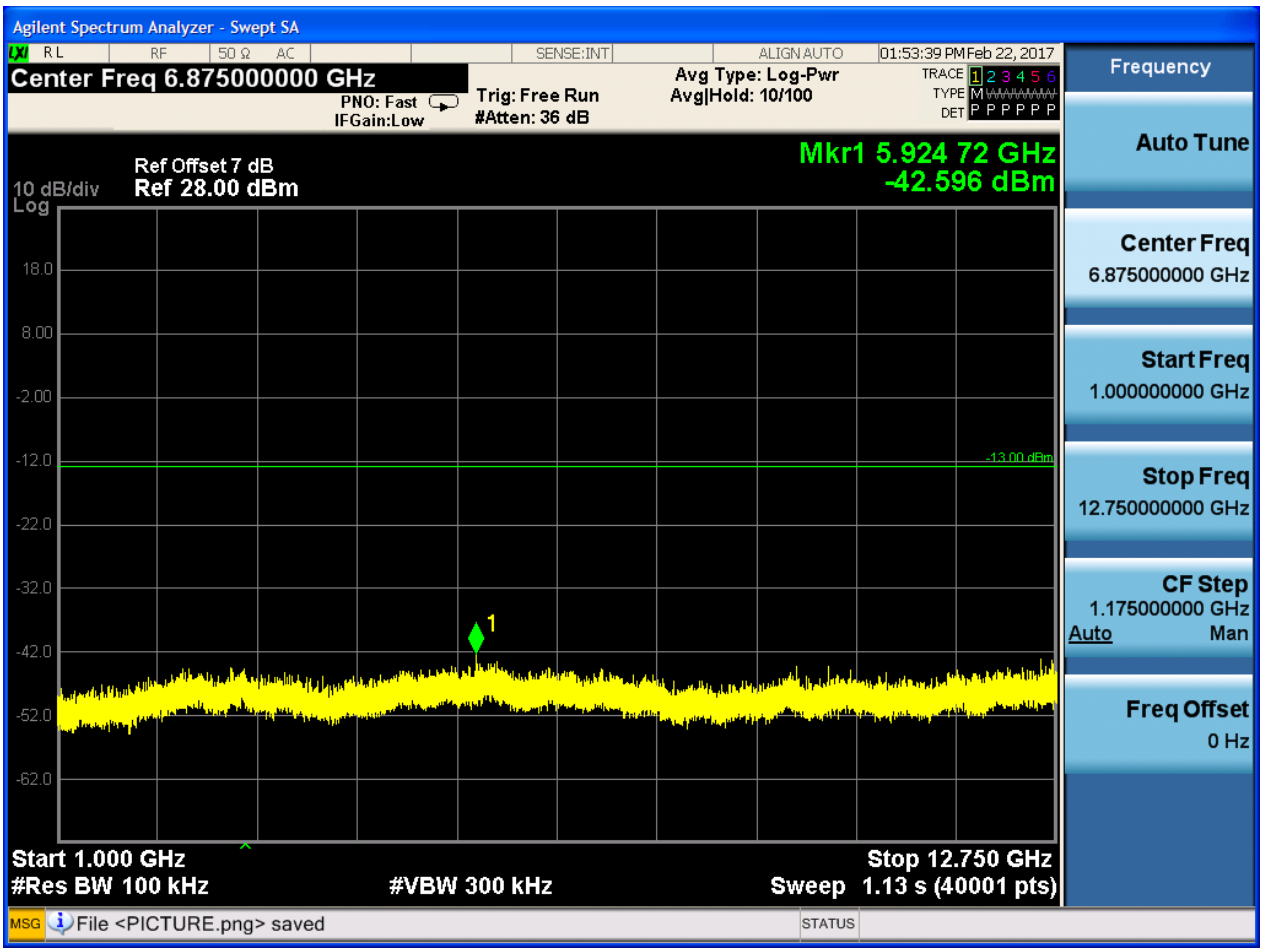

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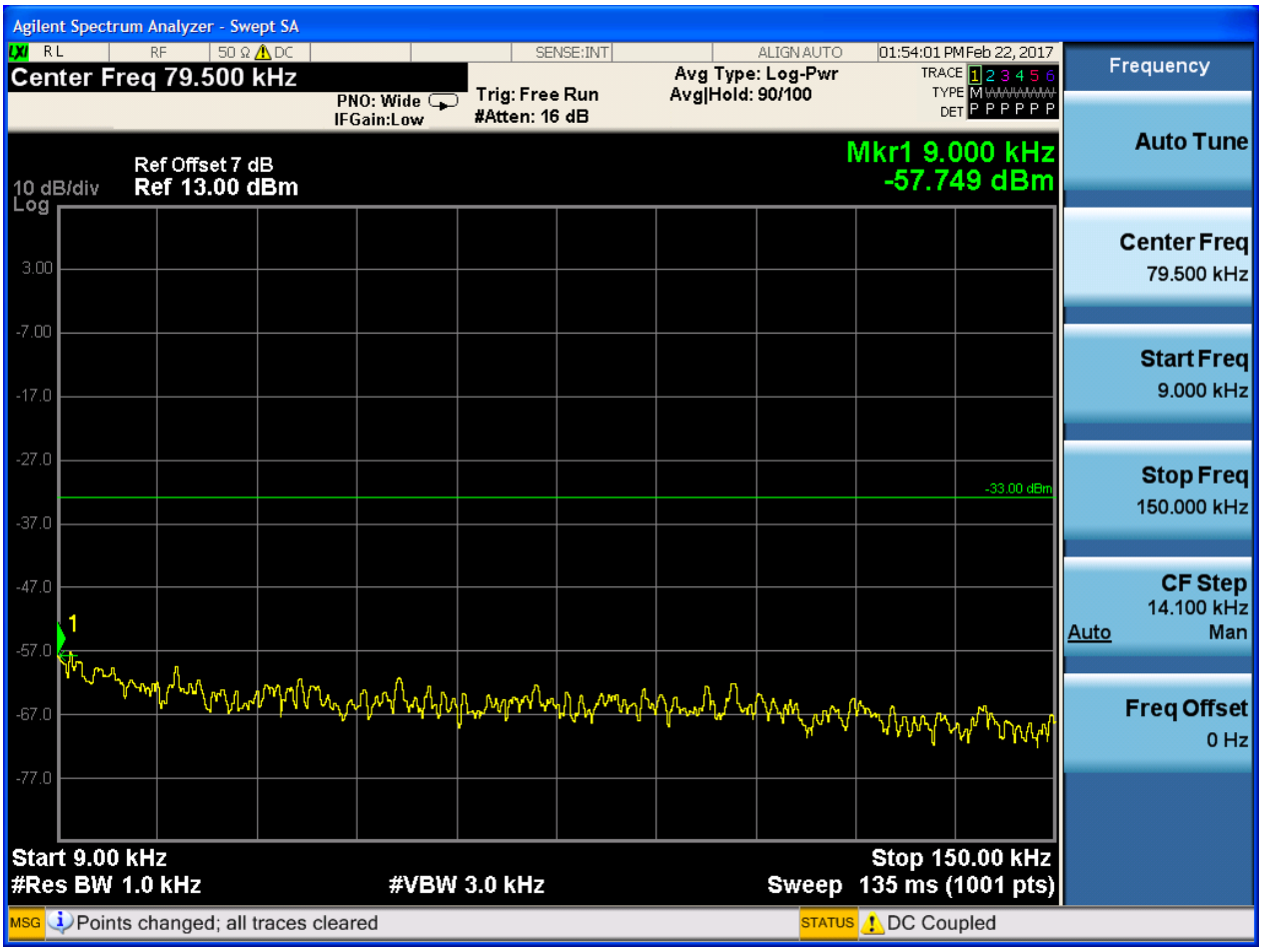
6.1.1.2.1.2 Test Channel = MCH

6.1.1.2.1.2.1 Test RB = RB1#0



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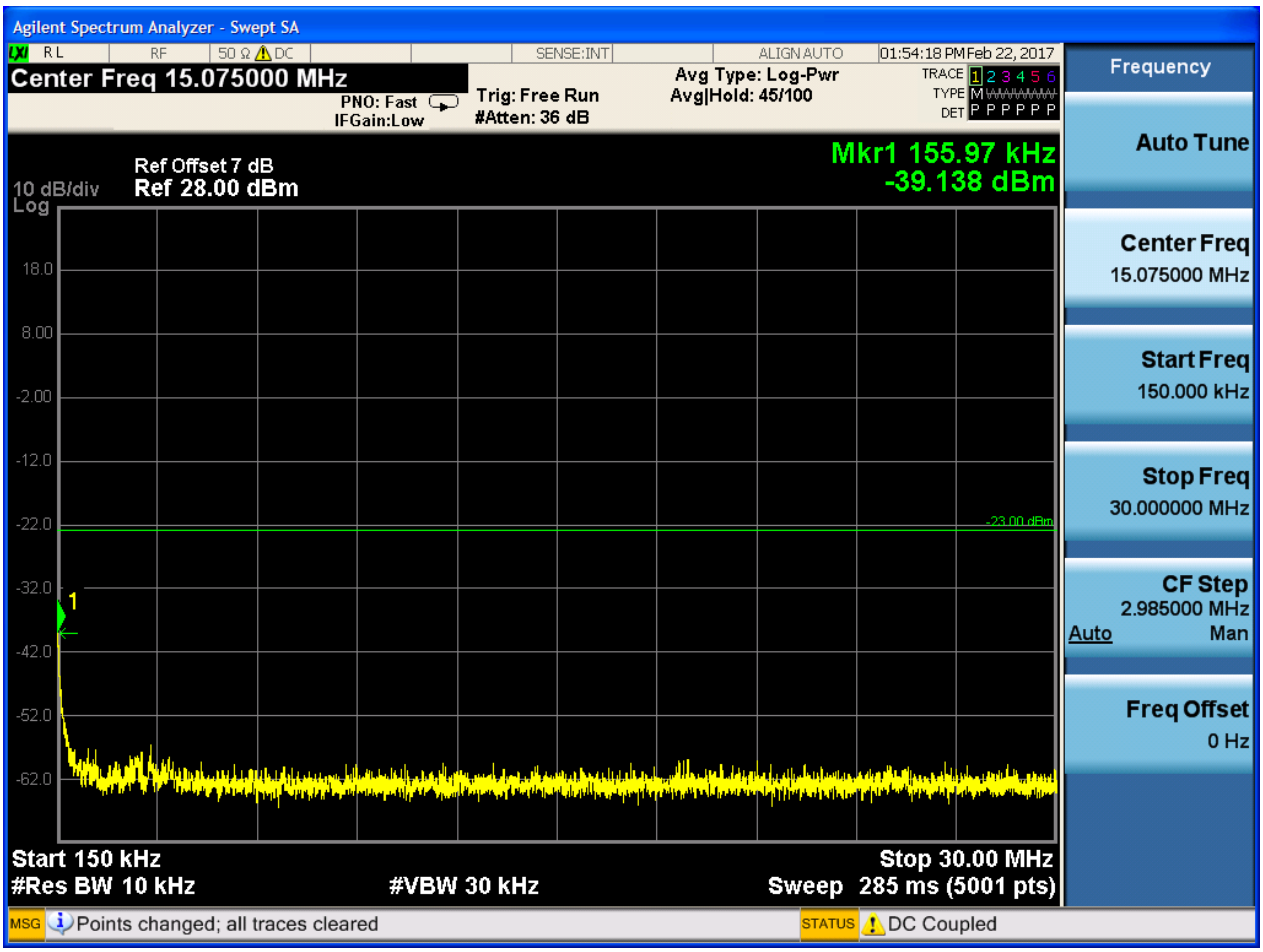

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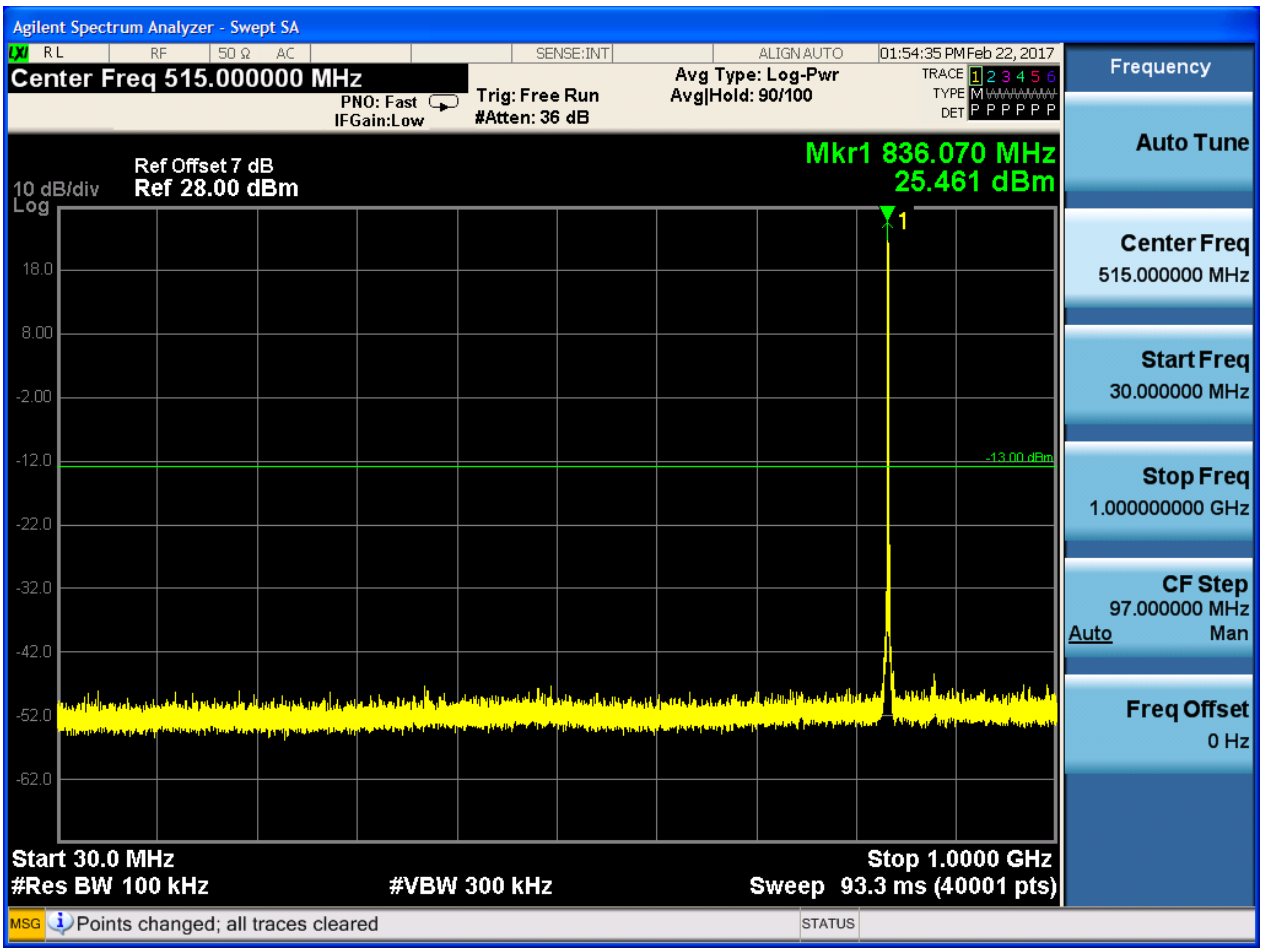

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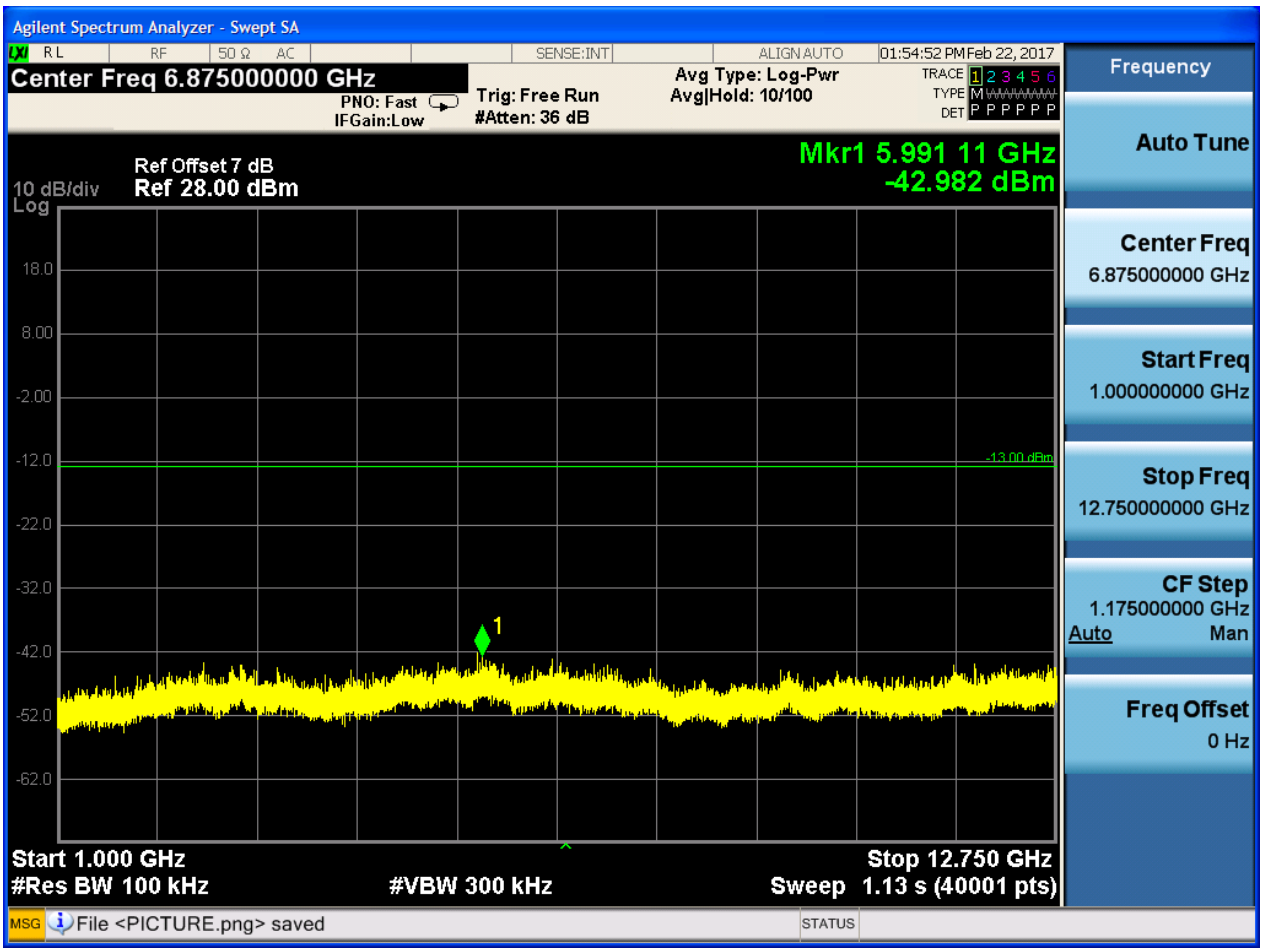

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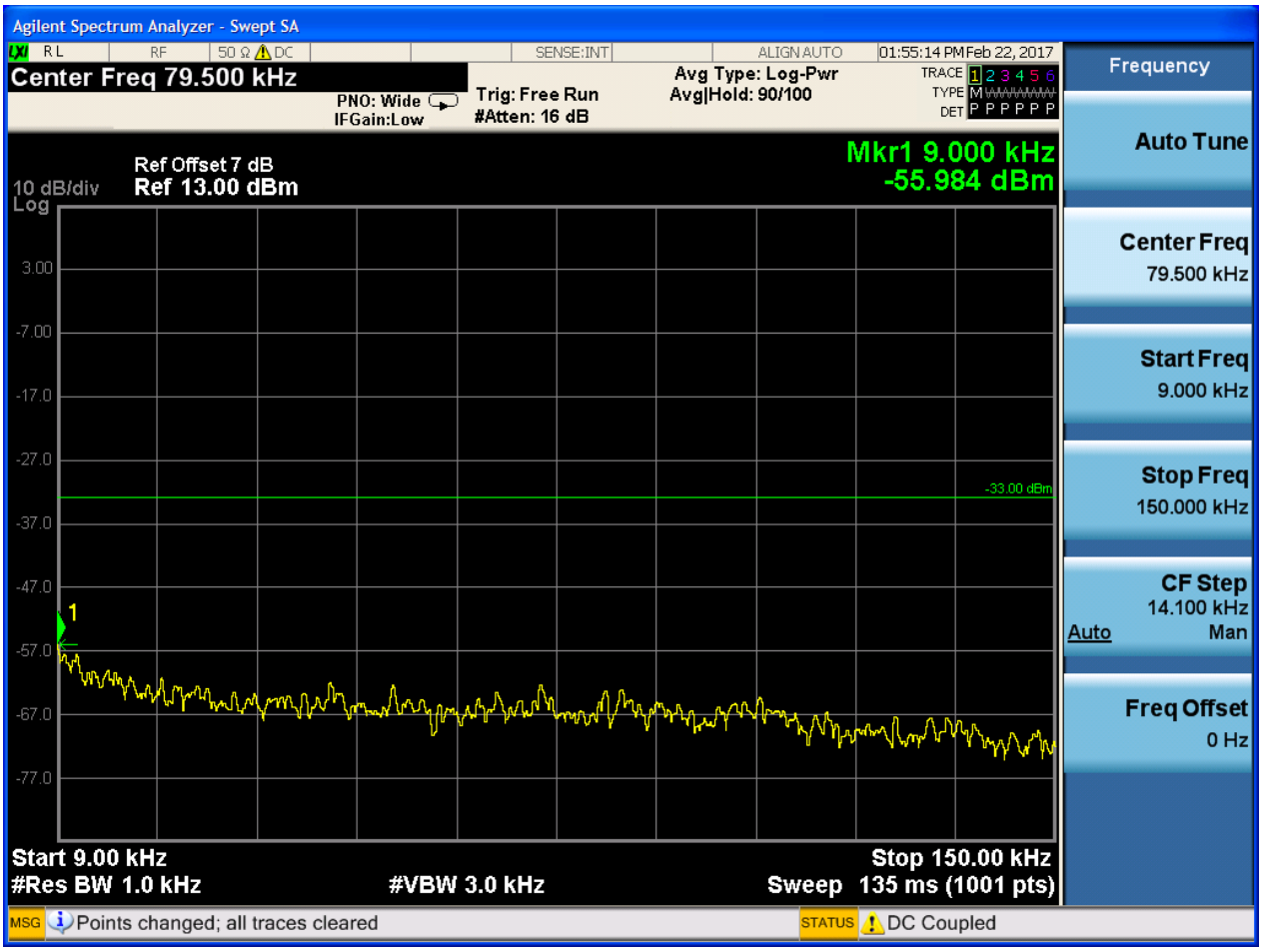
6.1.1.2.1.3 Test Channel = HCH

6.1.1.2.1.3.1 Test RB = RB1#0



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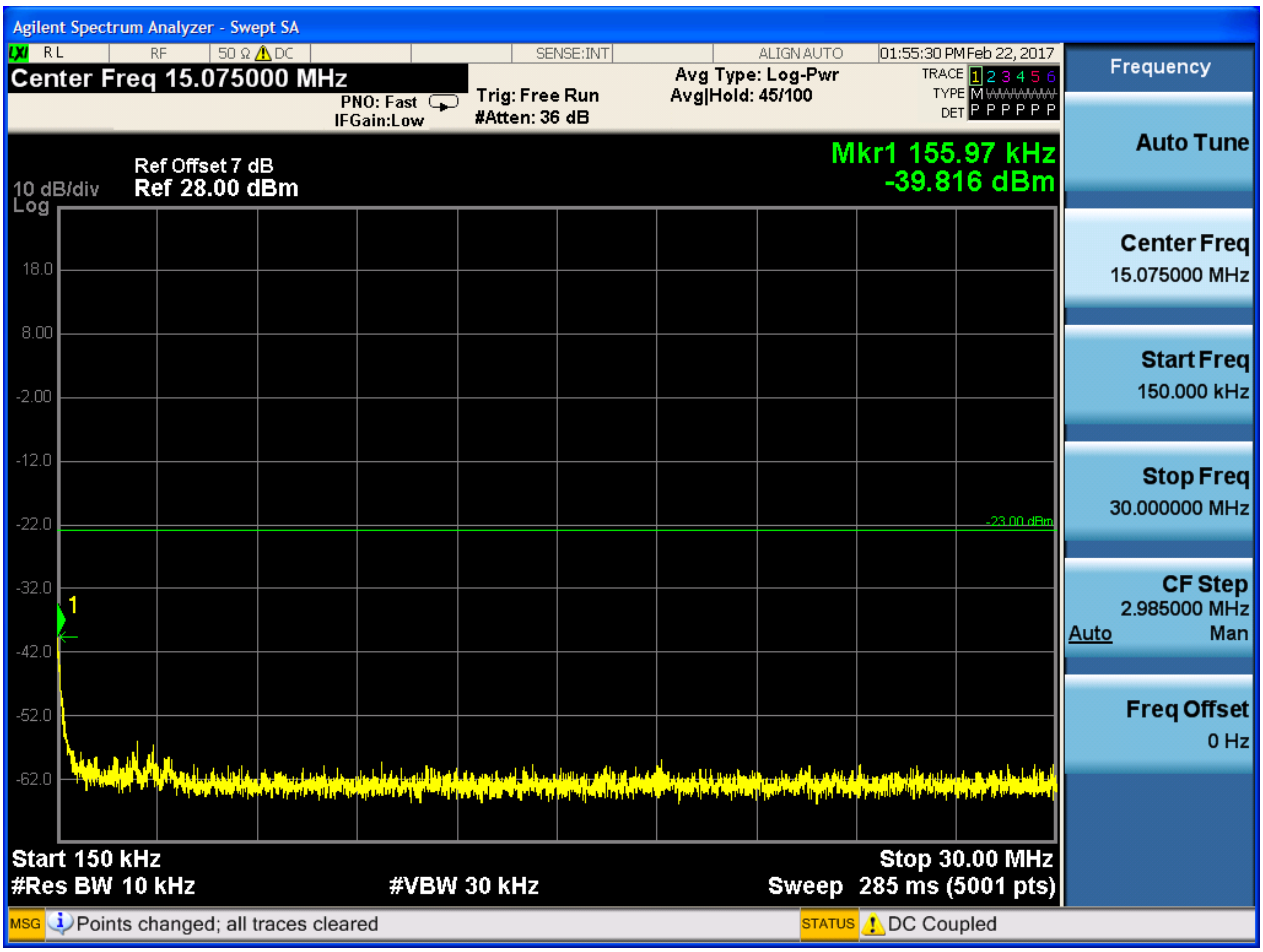

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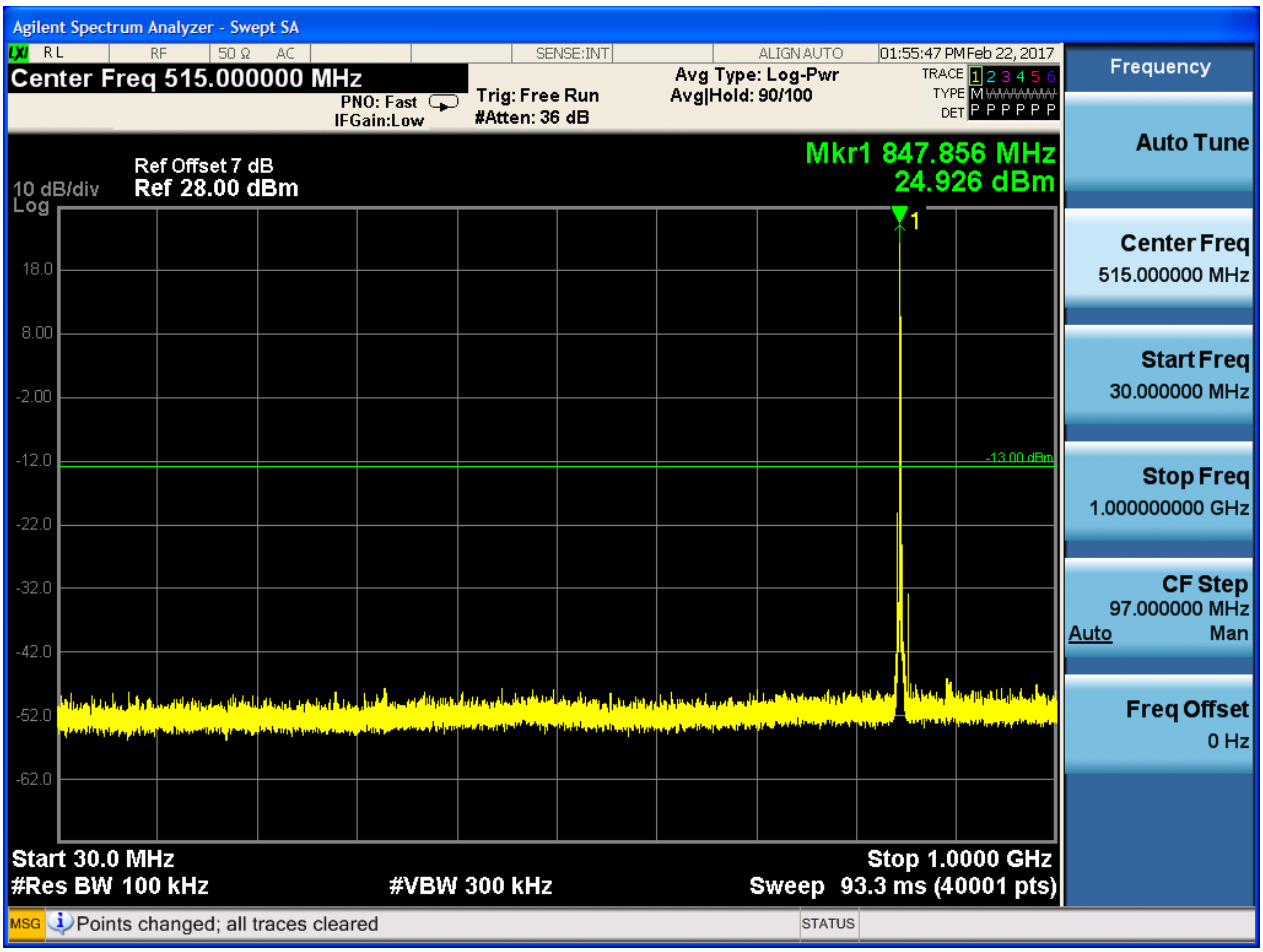

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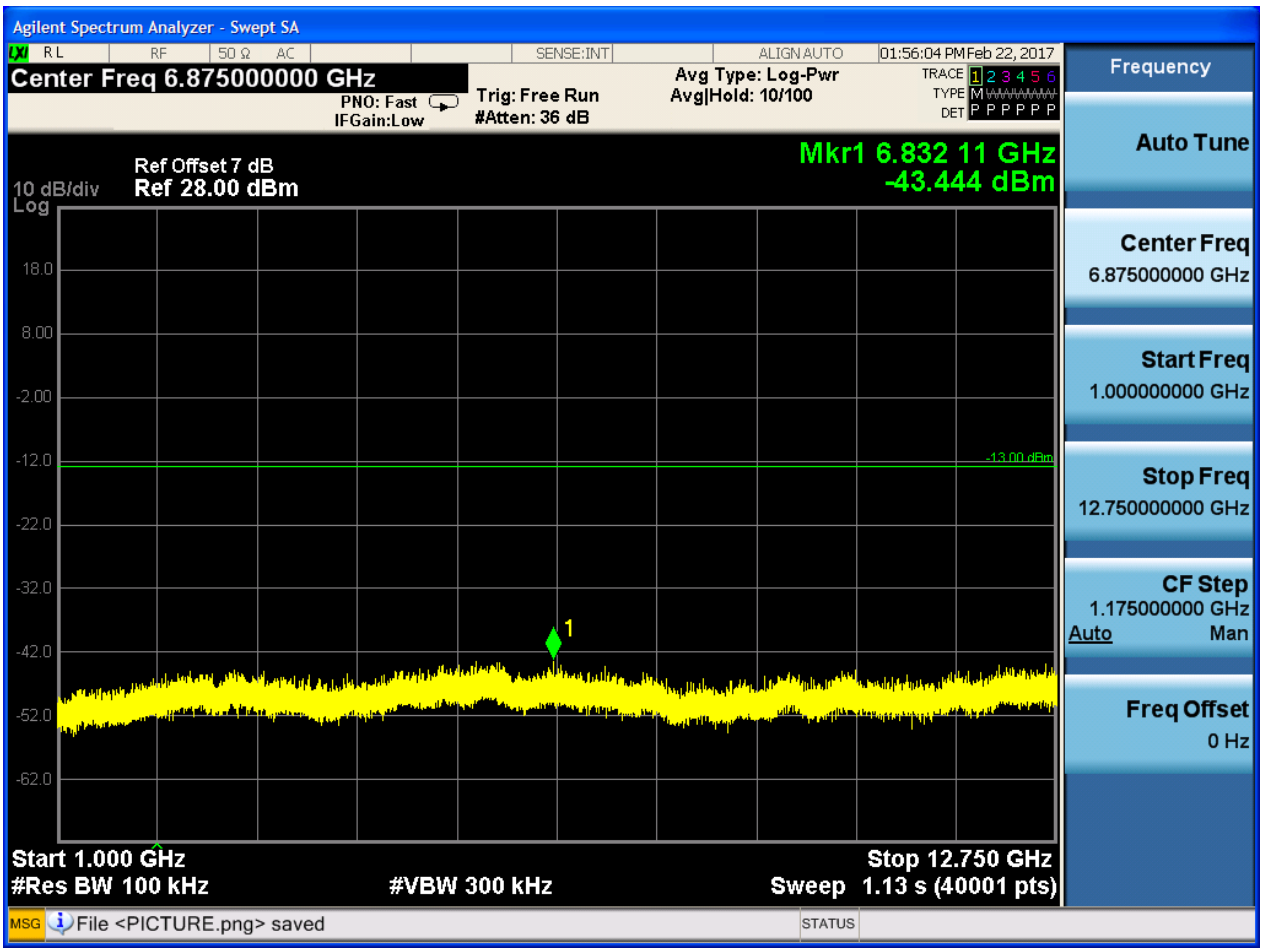

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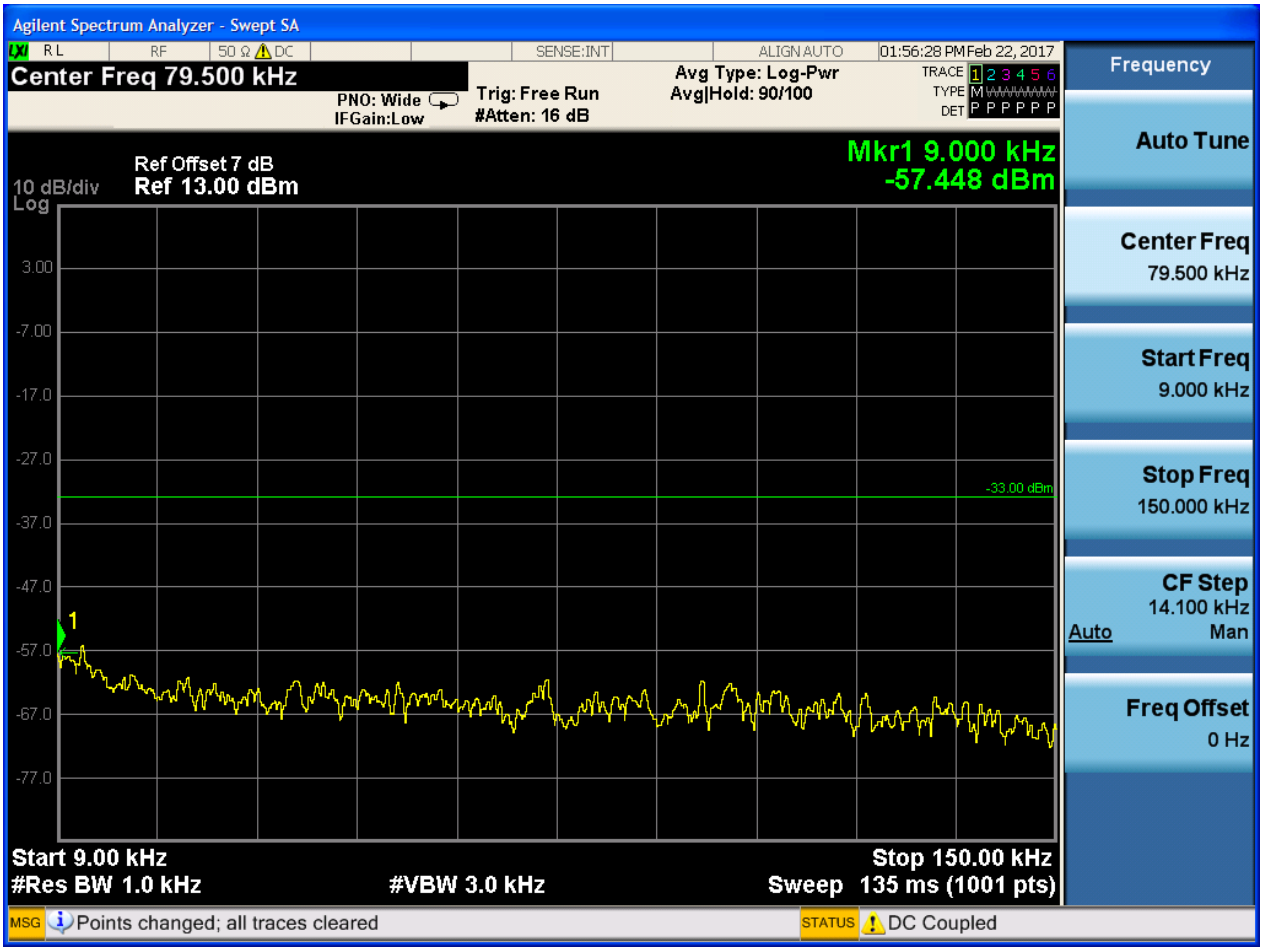
6.1.1.2.2 Test Bandwidth = 3

6.1.1.2.2.1 Test Channel = LCH

6.1.1.2.2.1.1 Test RB = RB1#0



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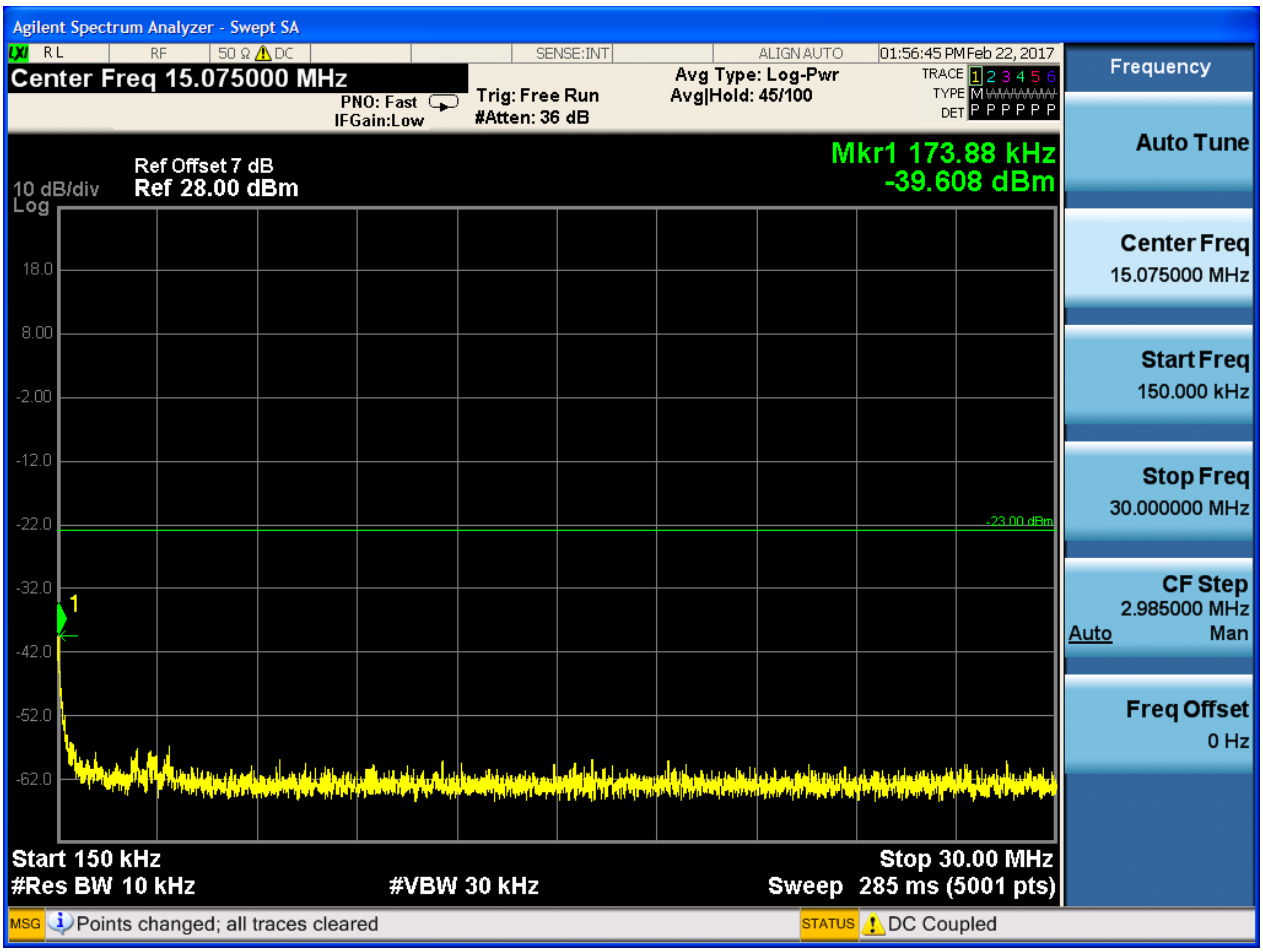

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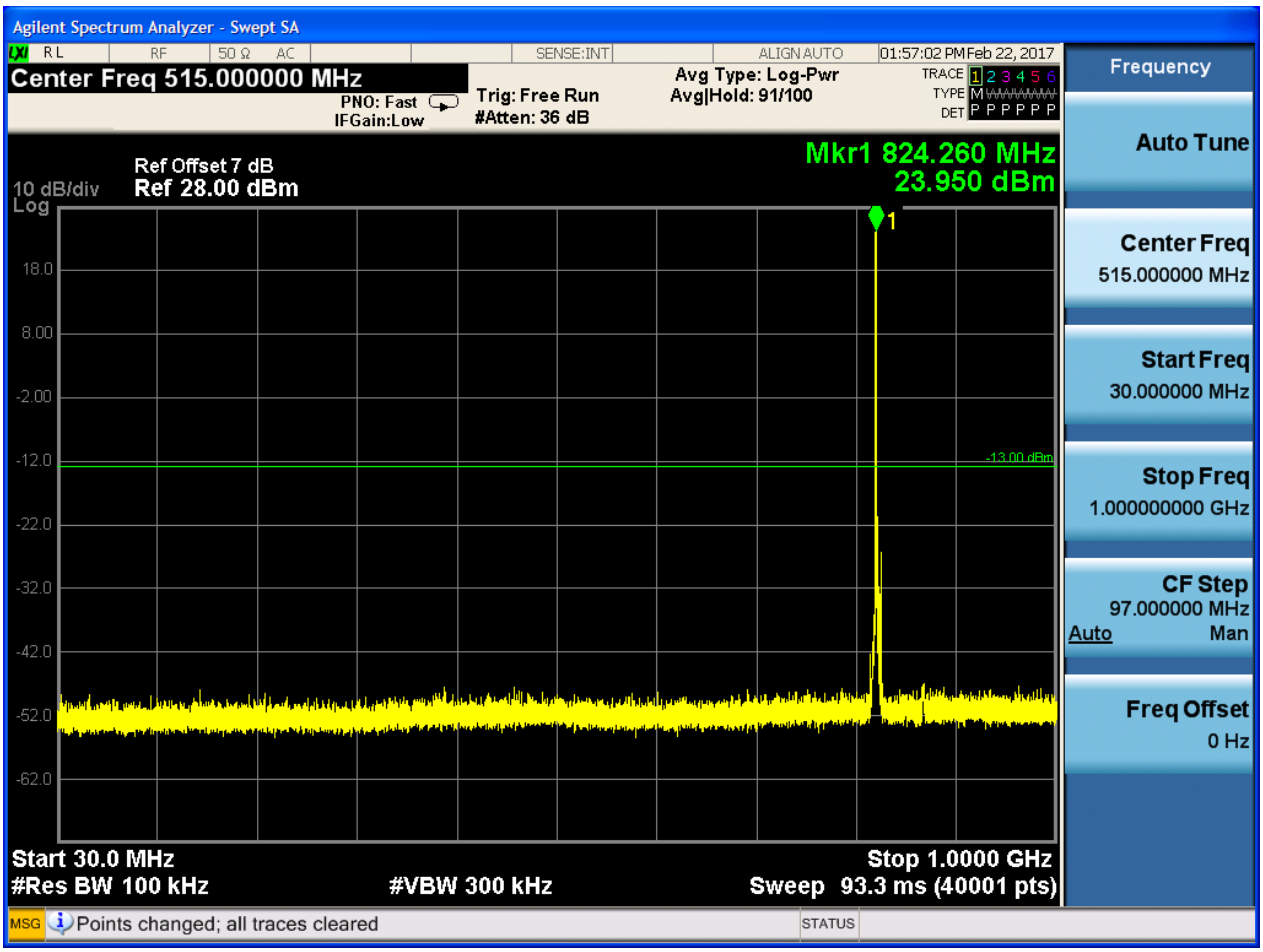

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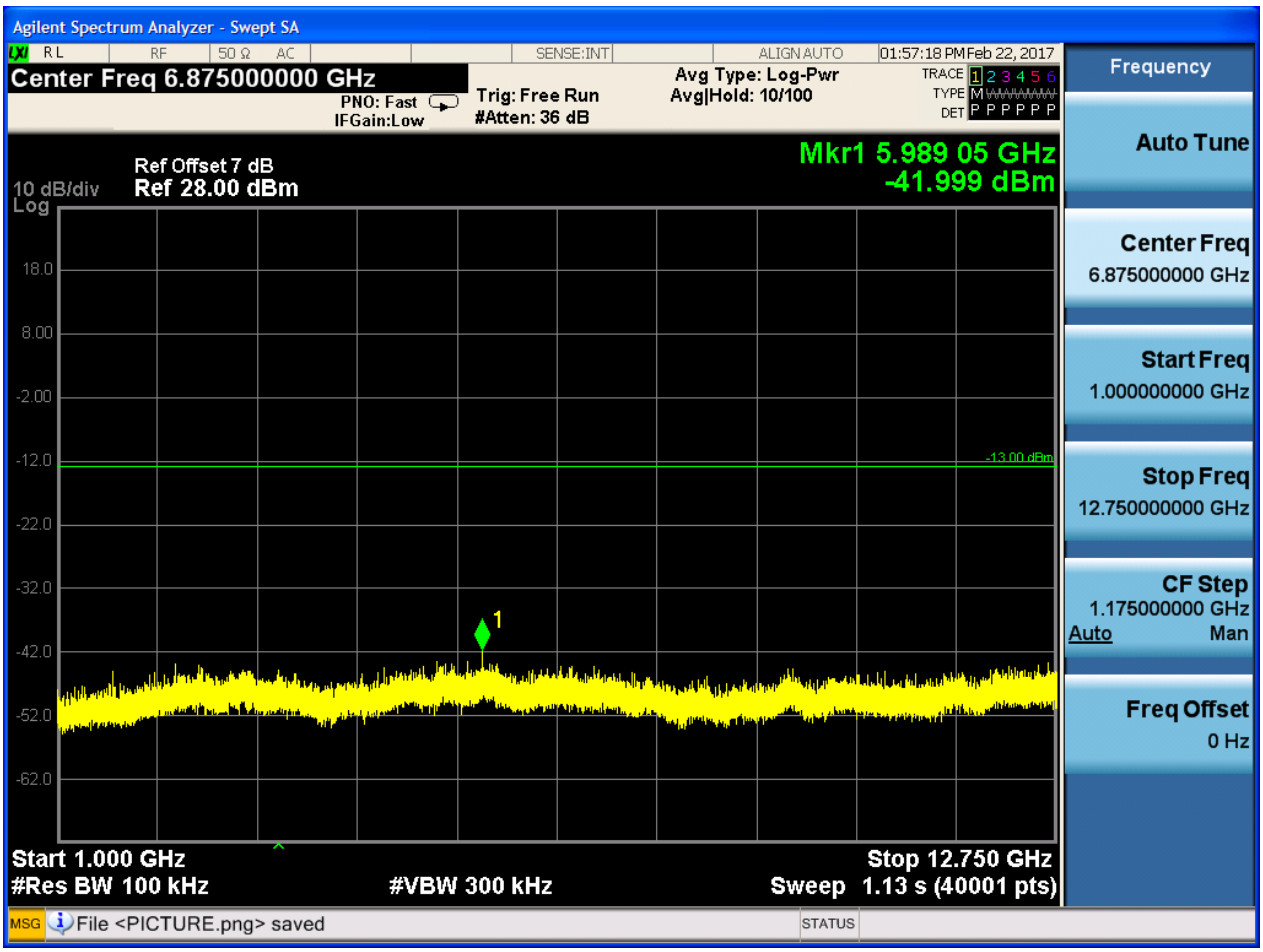

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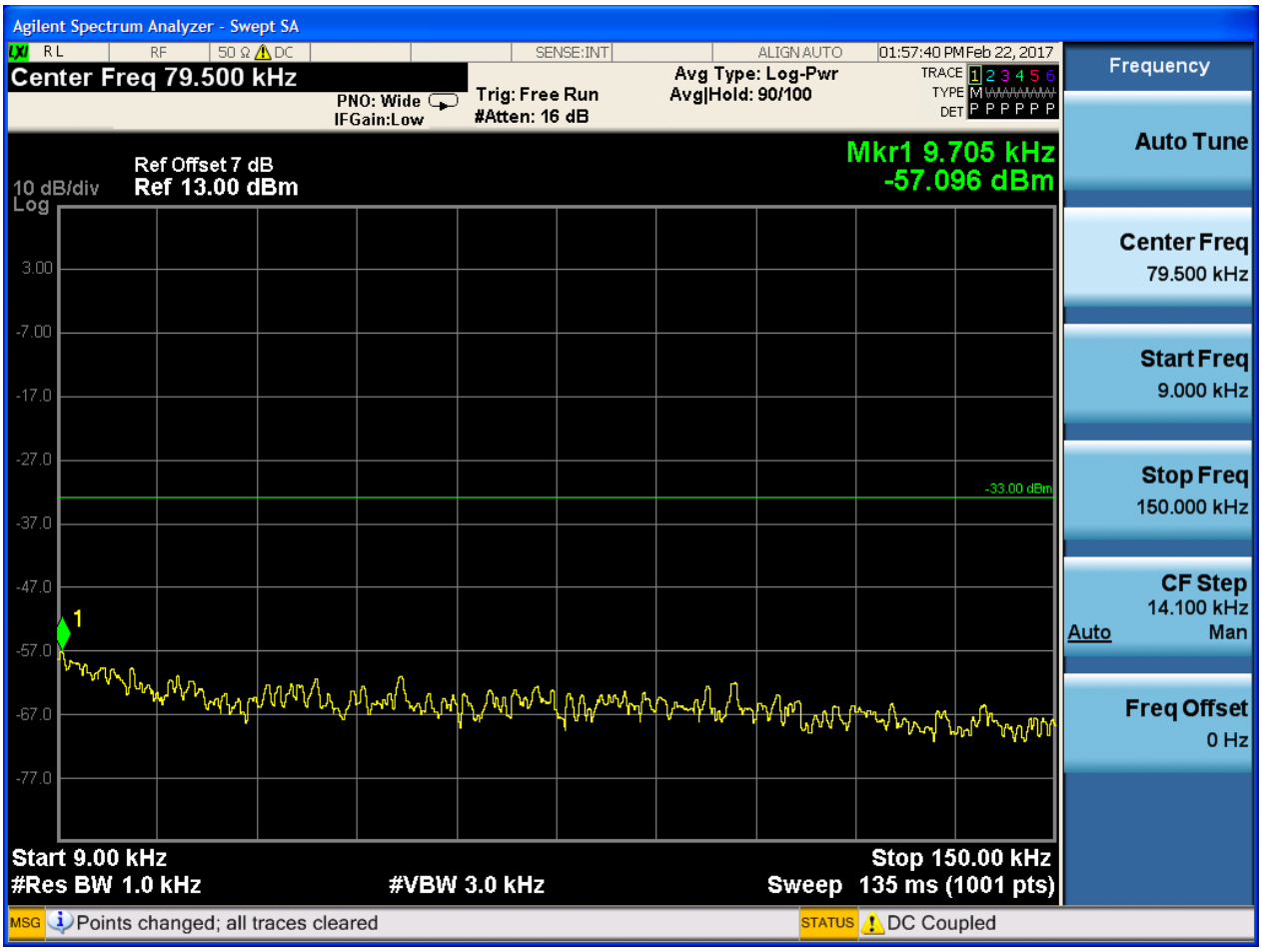
6.1.1.2.2.2 Test Channel = MCH

6.1.1.2.2.2.1 Test RB = RB1#0



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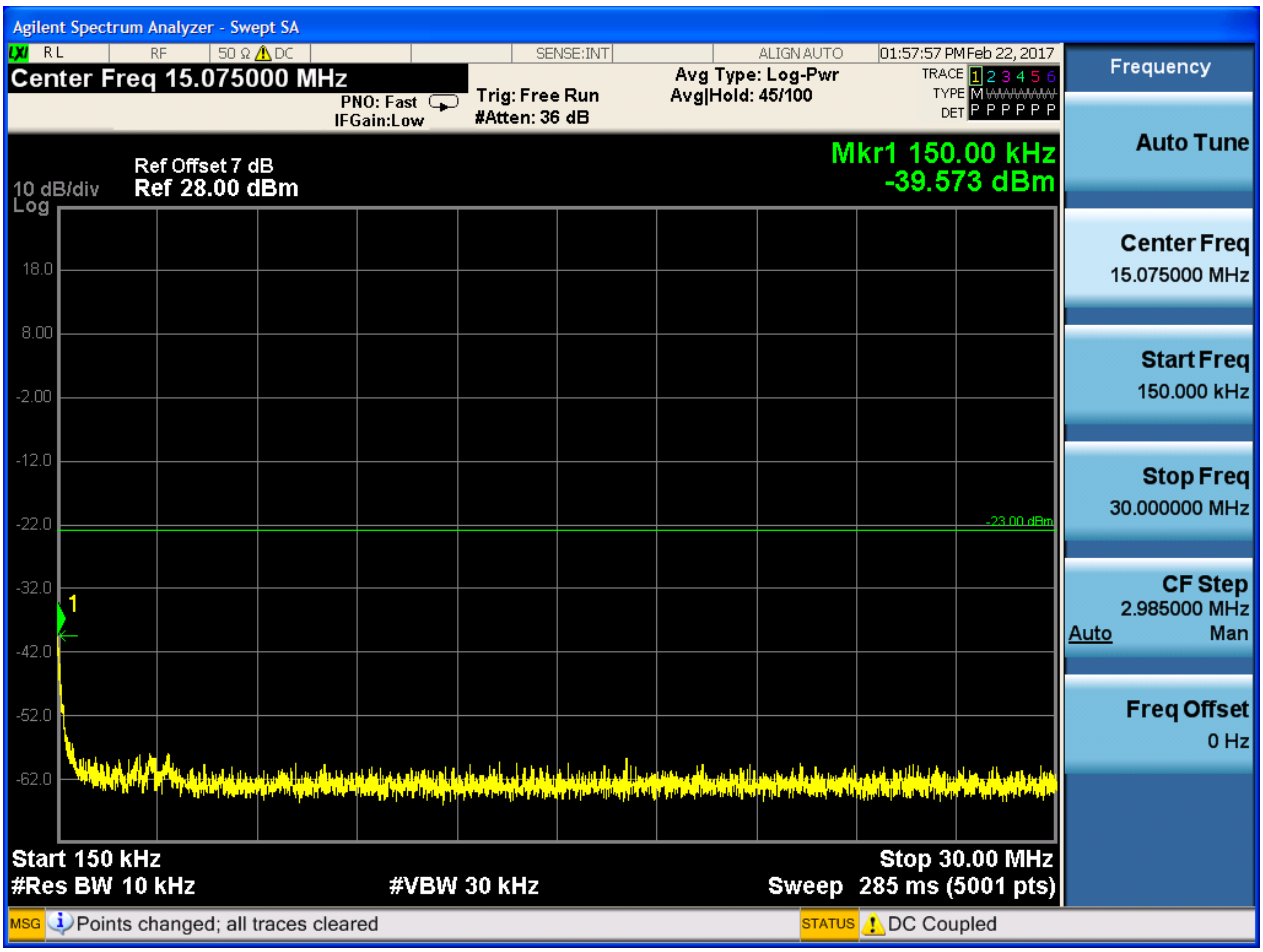

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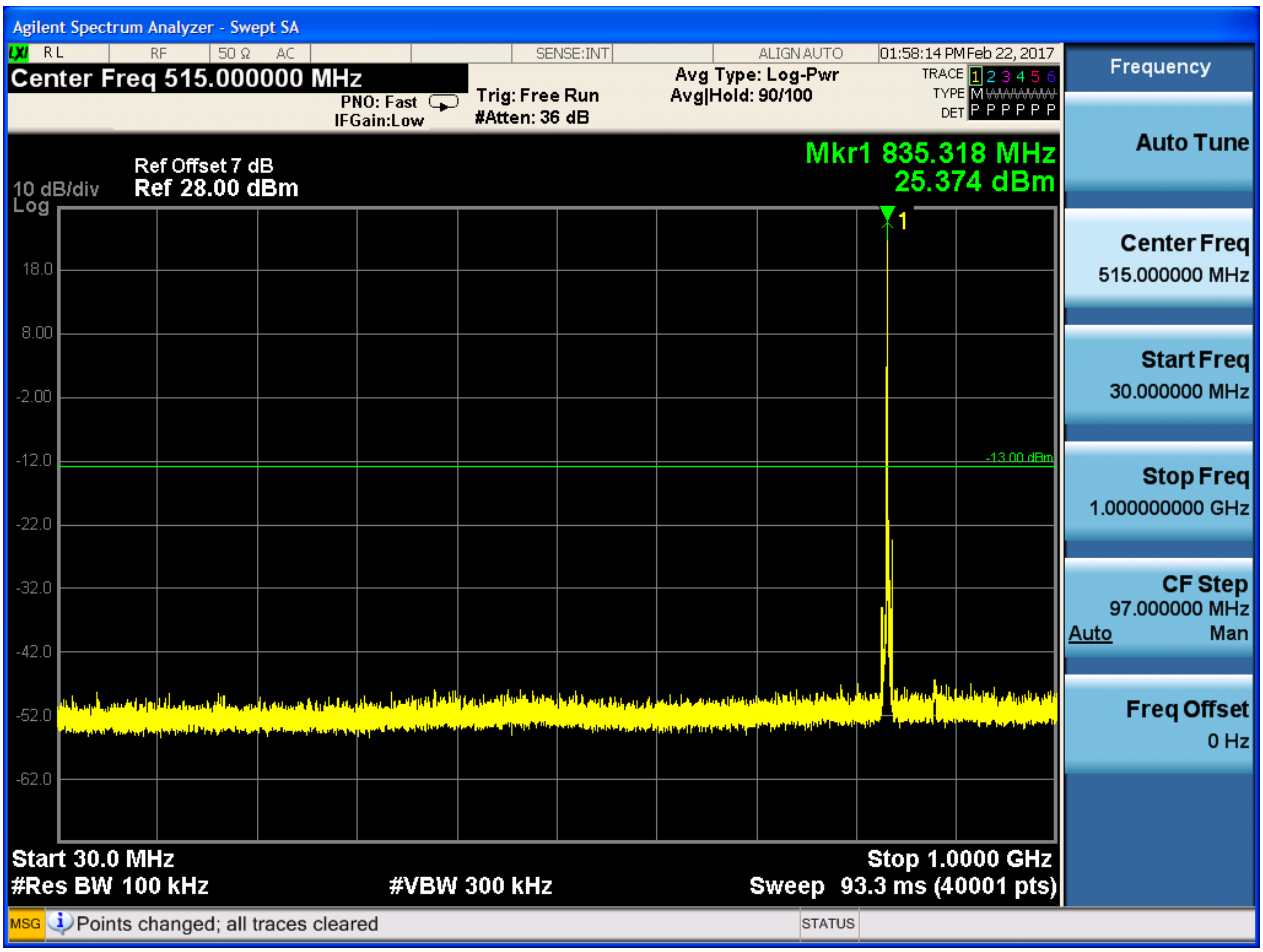

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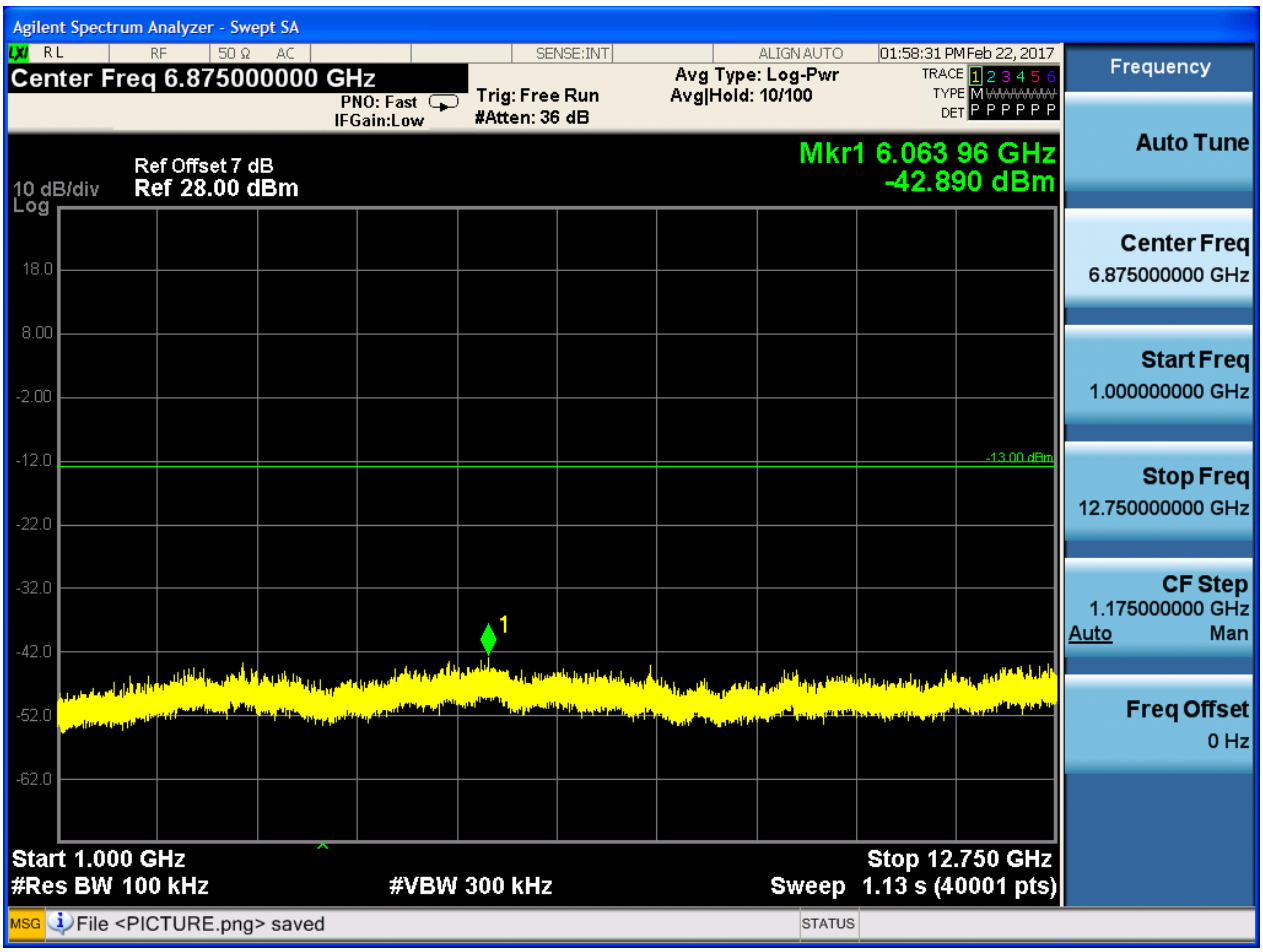

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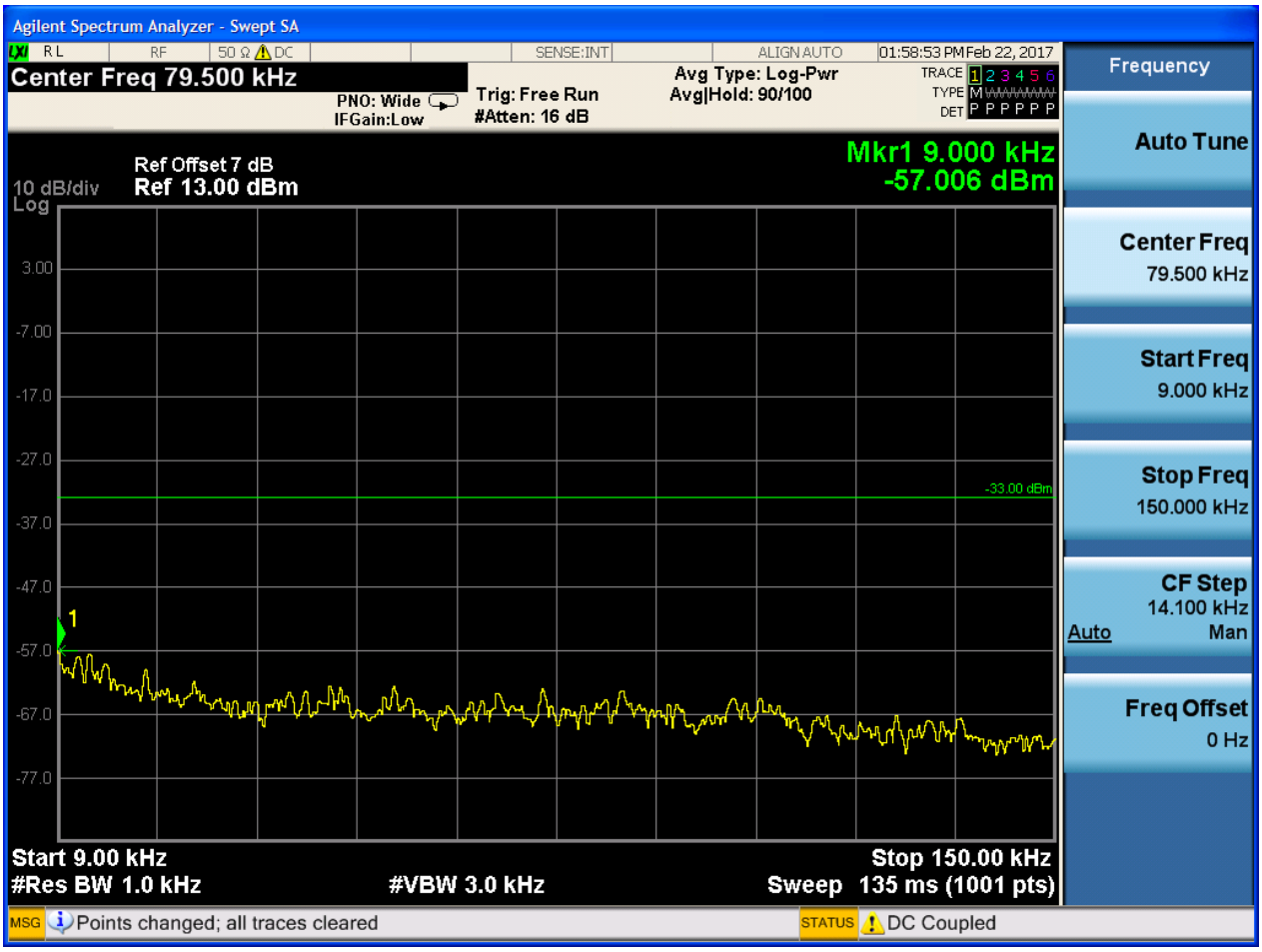
6.1.1.2.2.3 Test Channel = HCH

6.1.1.2.2.3.1 Test RB = RB1#0



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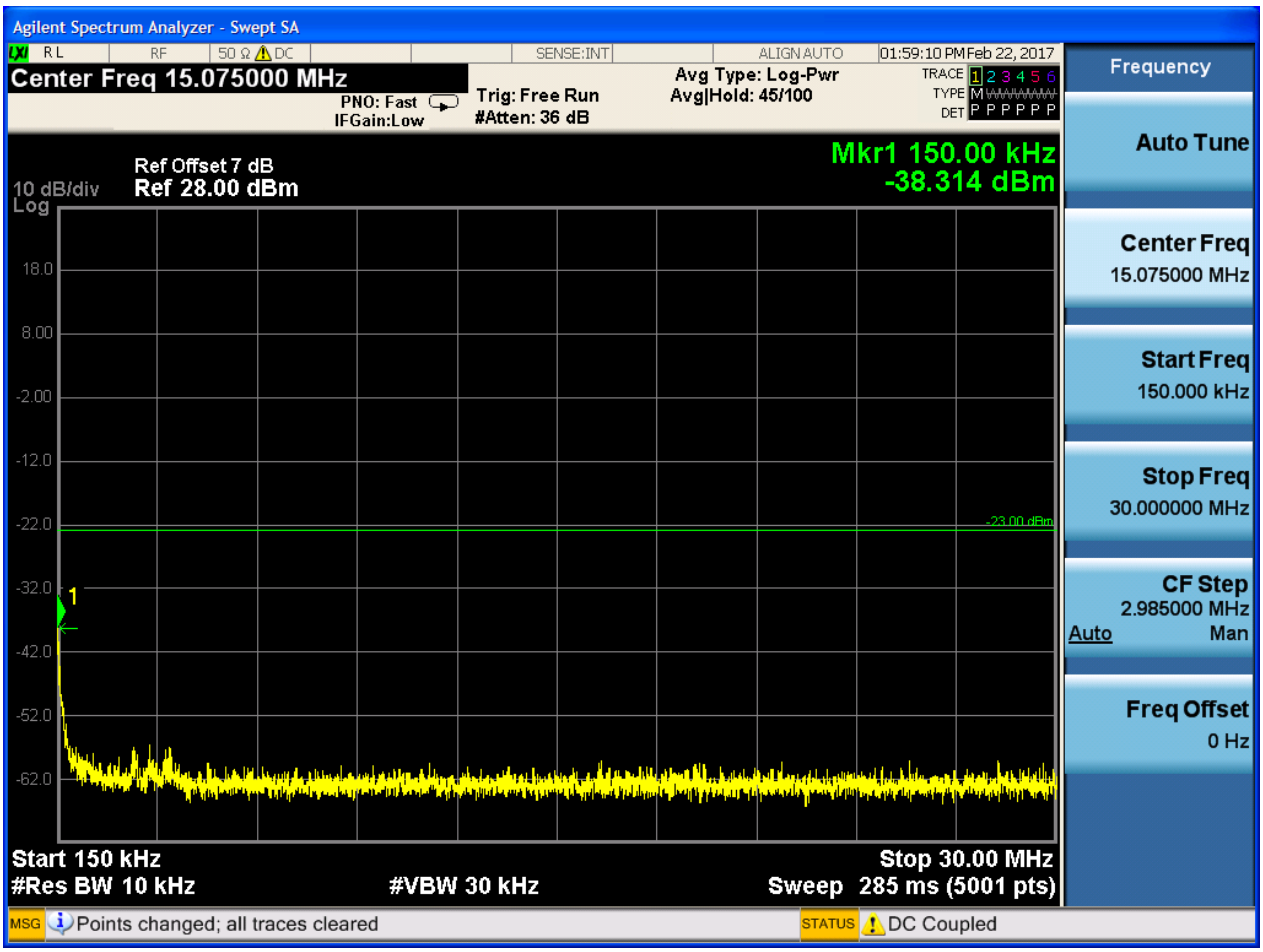

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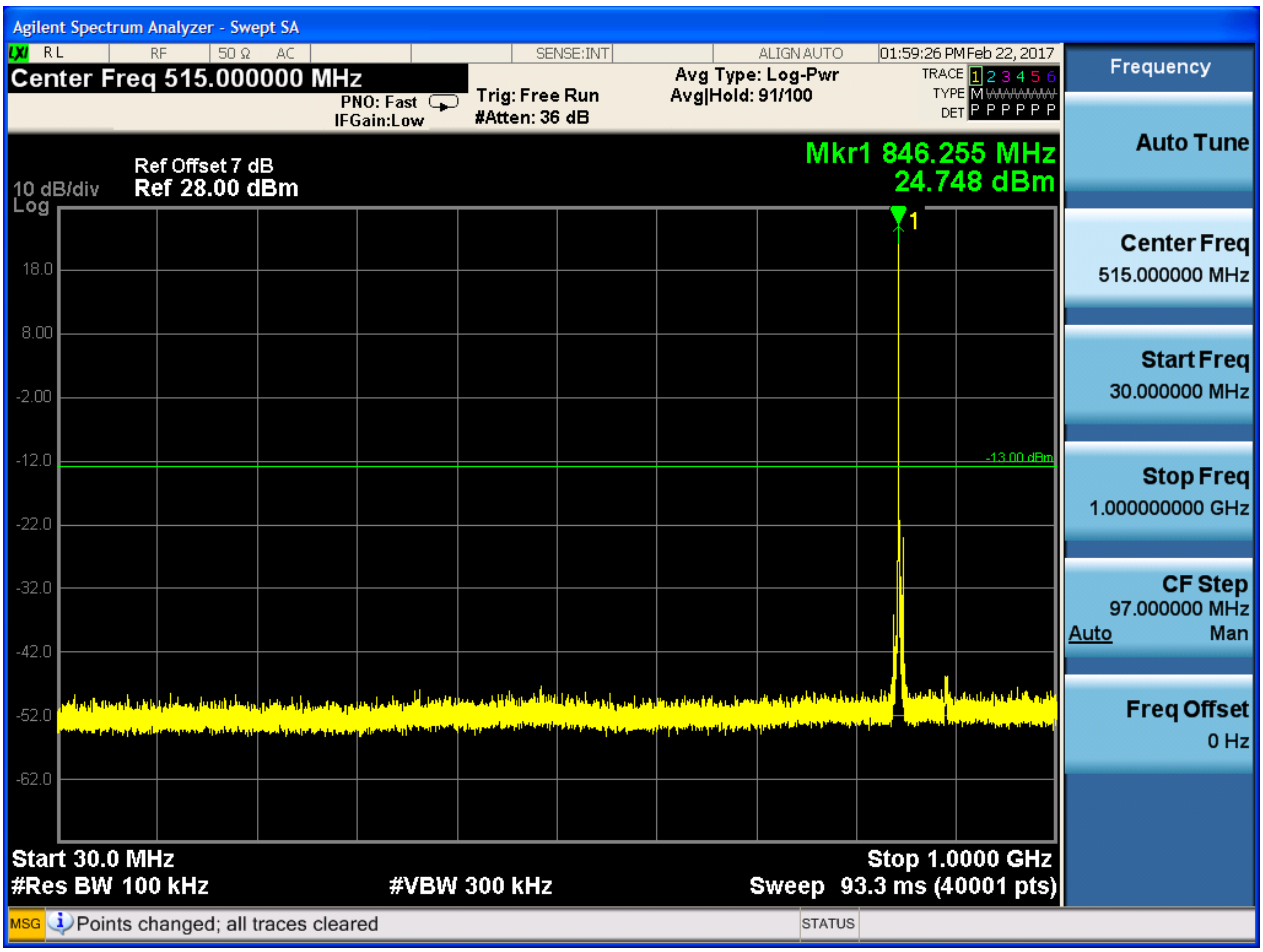

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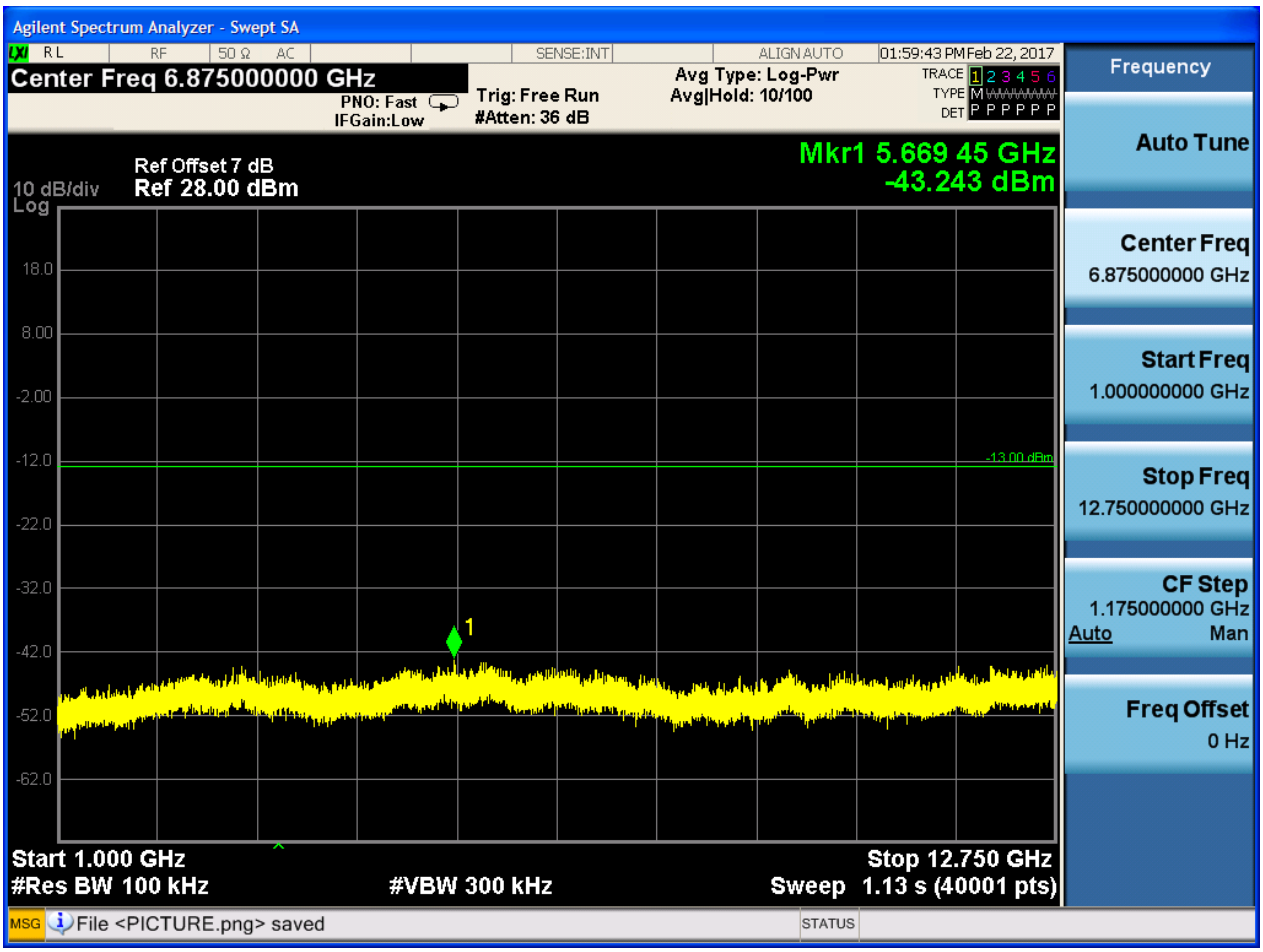

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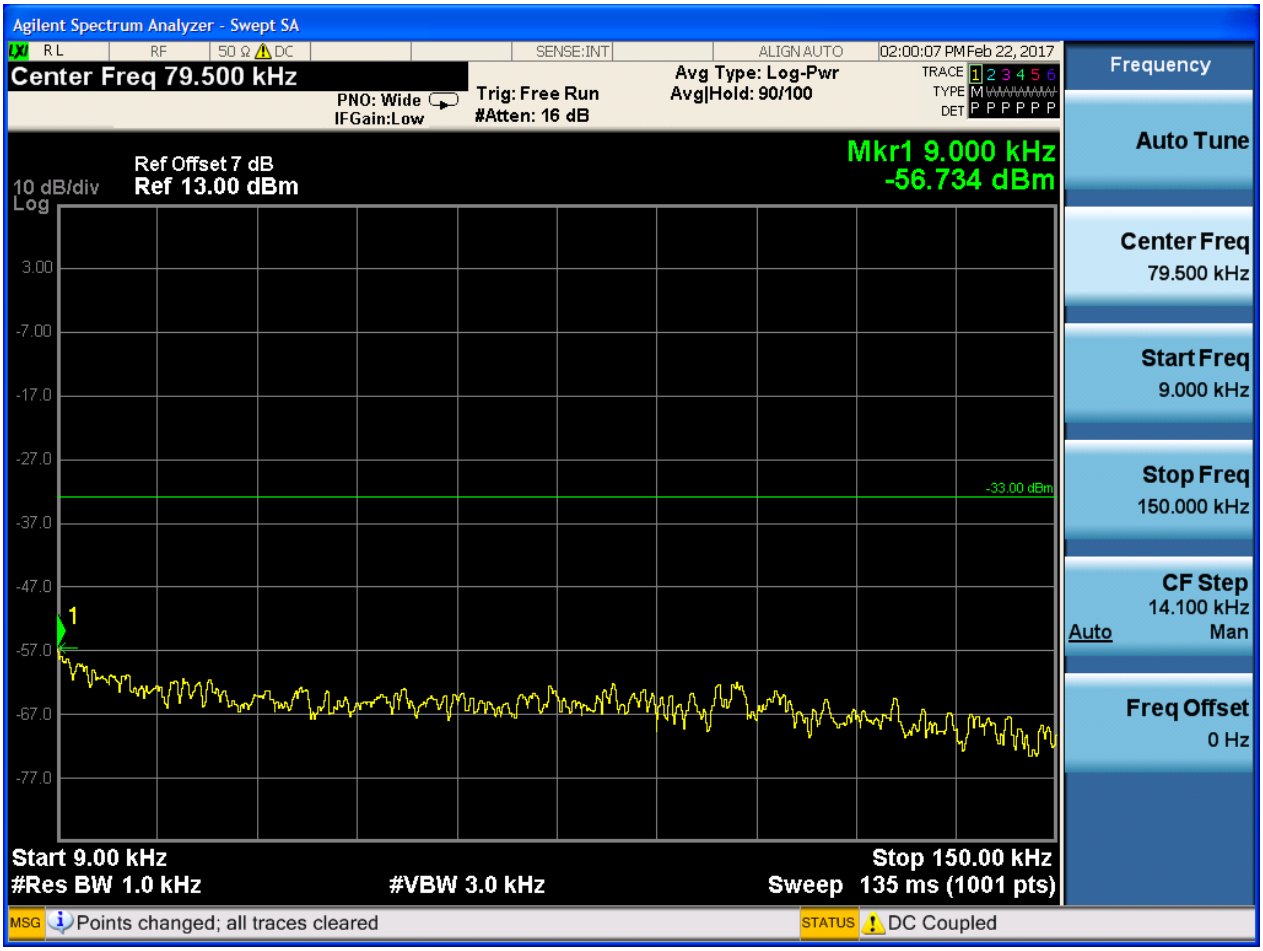
6.1.1.2.3 Test Bandwidth = 5

6.1.1.2.3.1 Test Channel = LCH

6.1.1.2.3.1.1 Test RB = RB1#0



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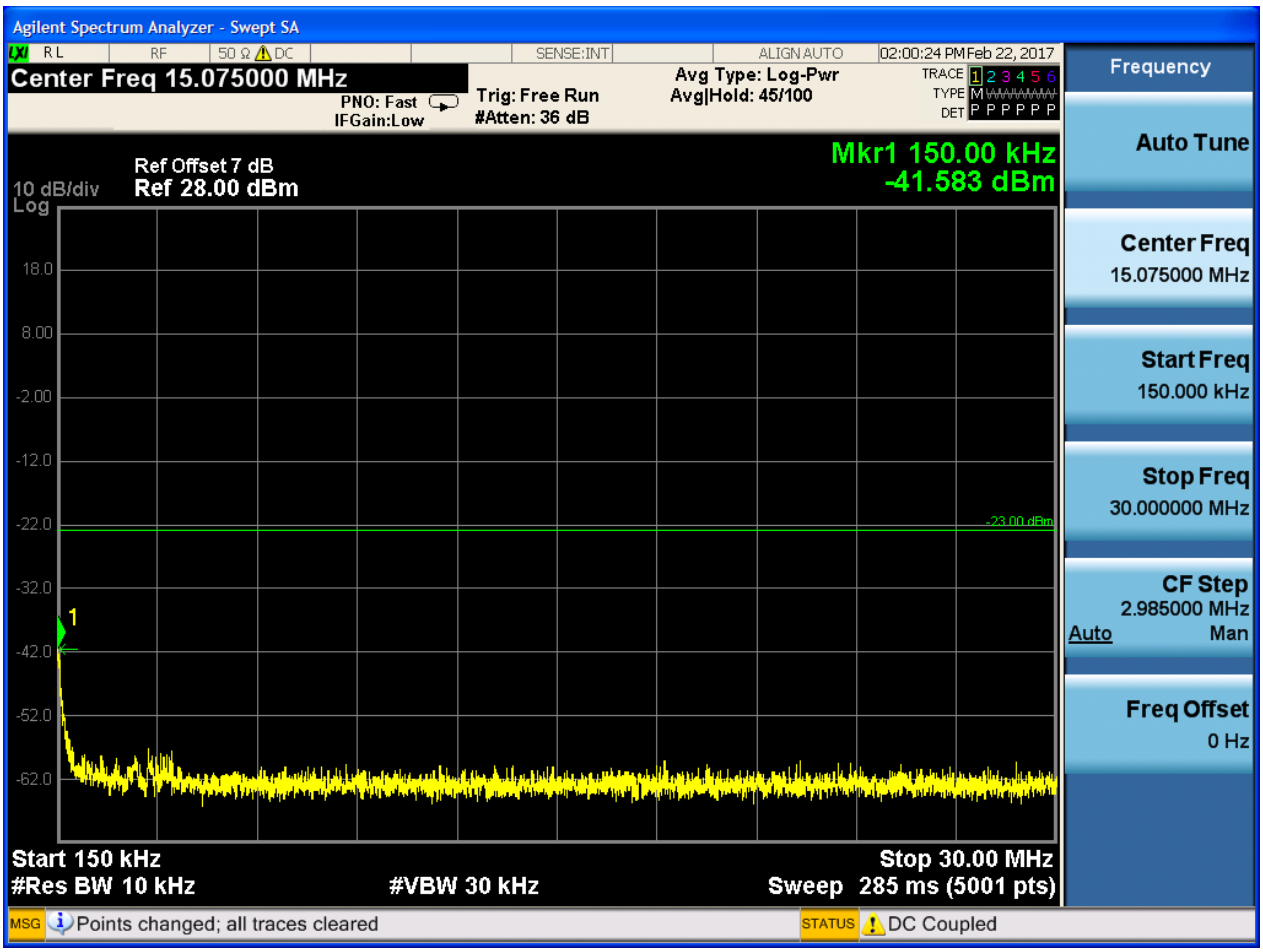

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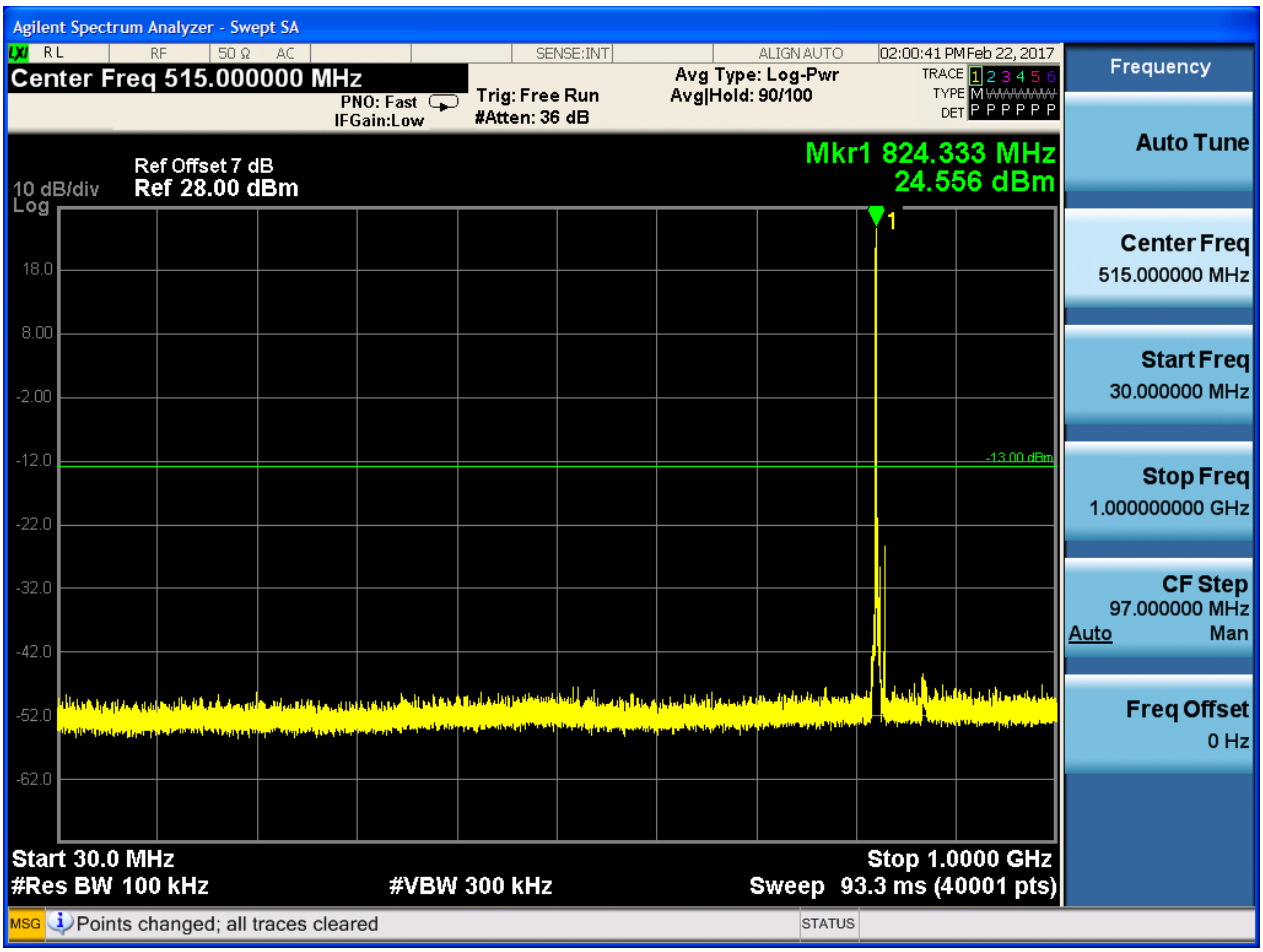

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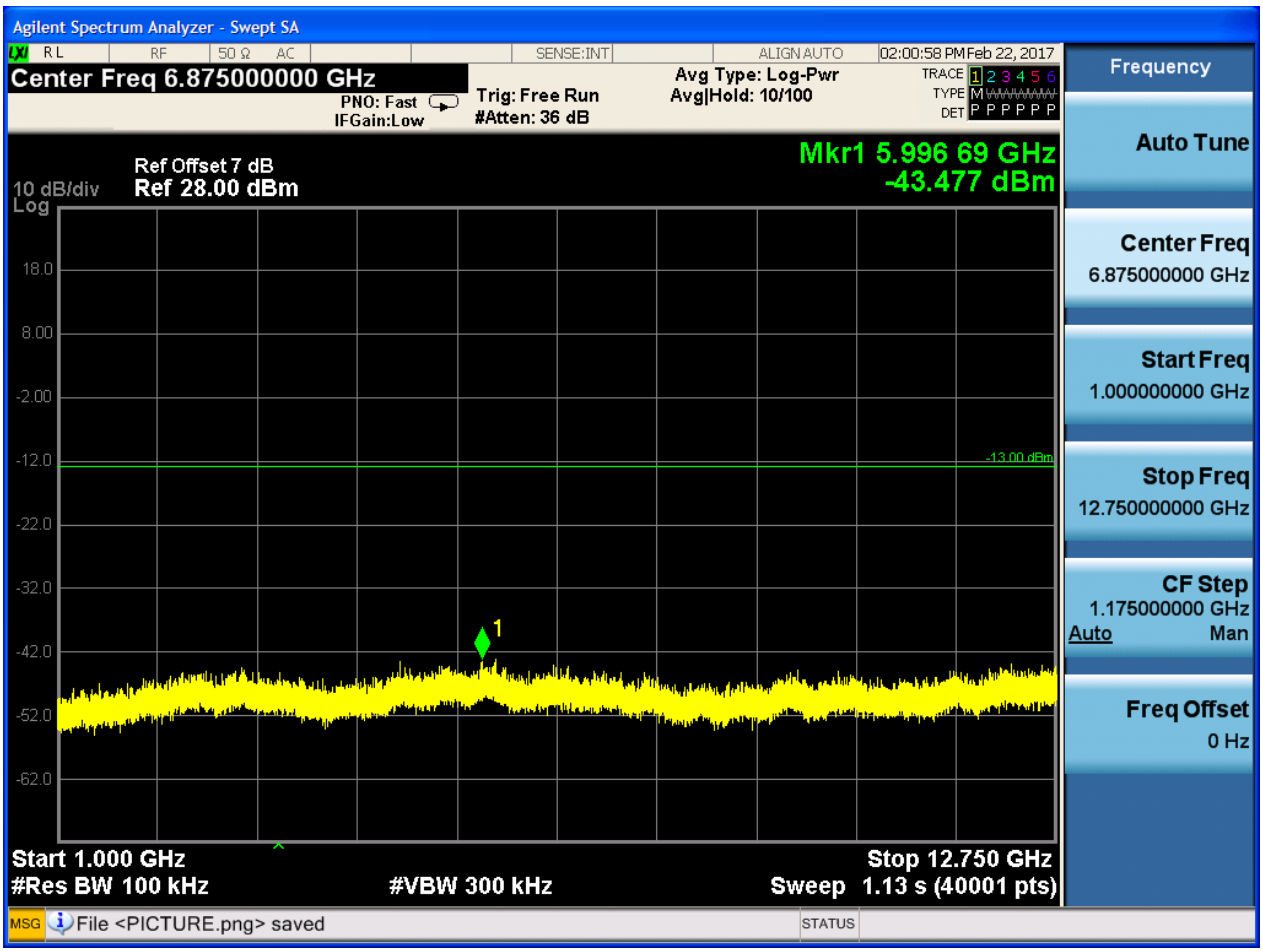

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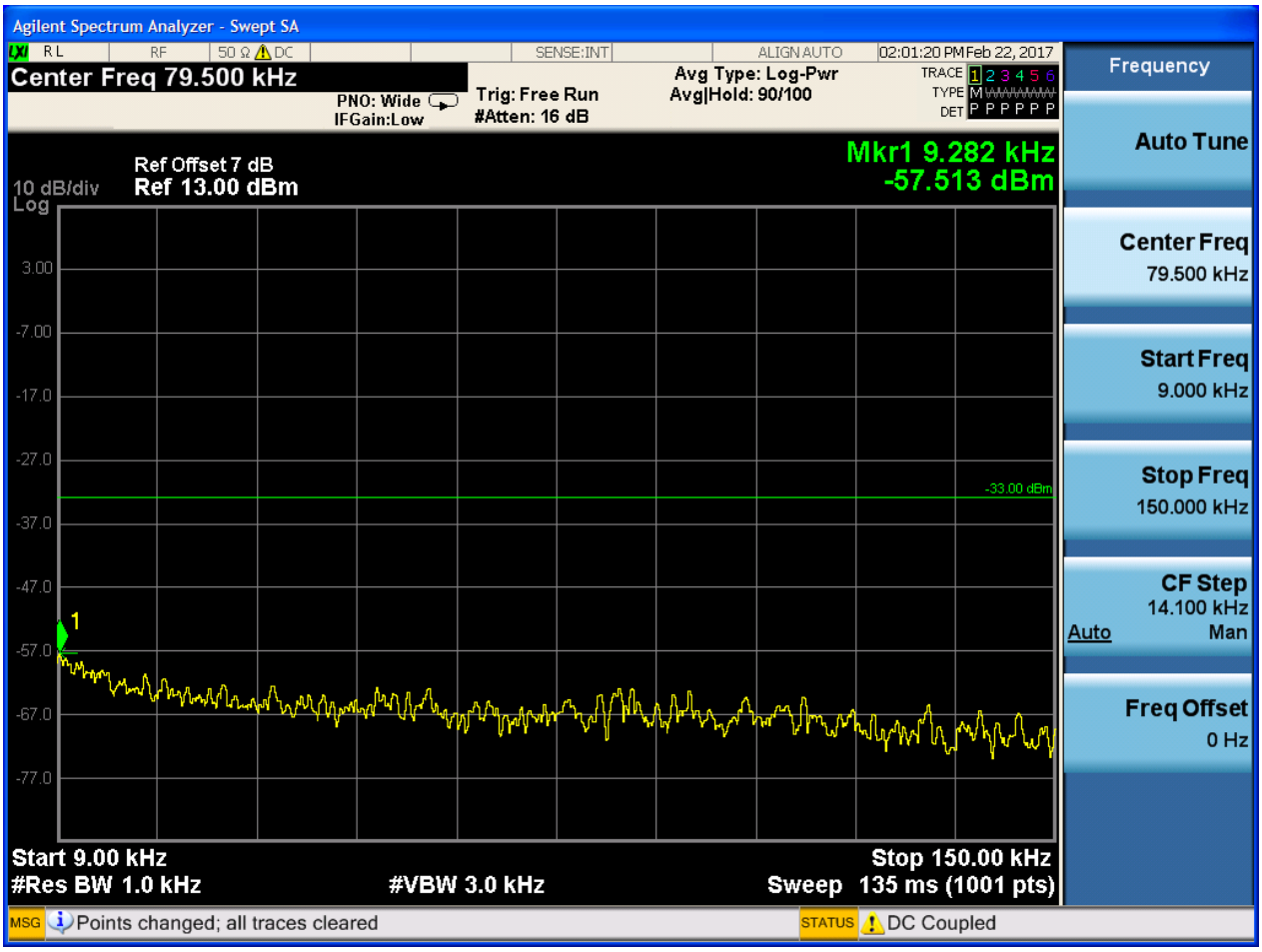
6.1.1.2.3.2 Test Channel = MCH

6.1.1.2.3.2.1 Test RB = RB1#0



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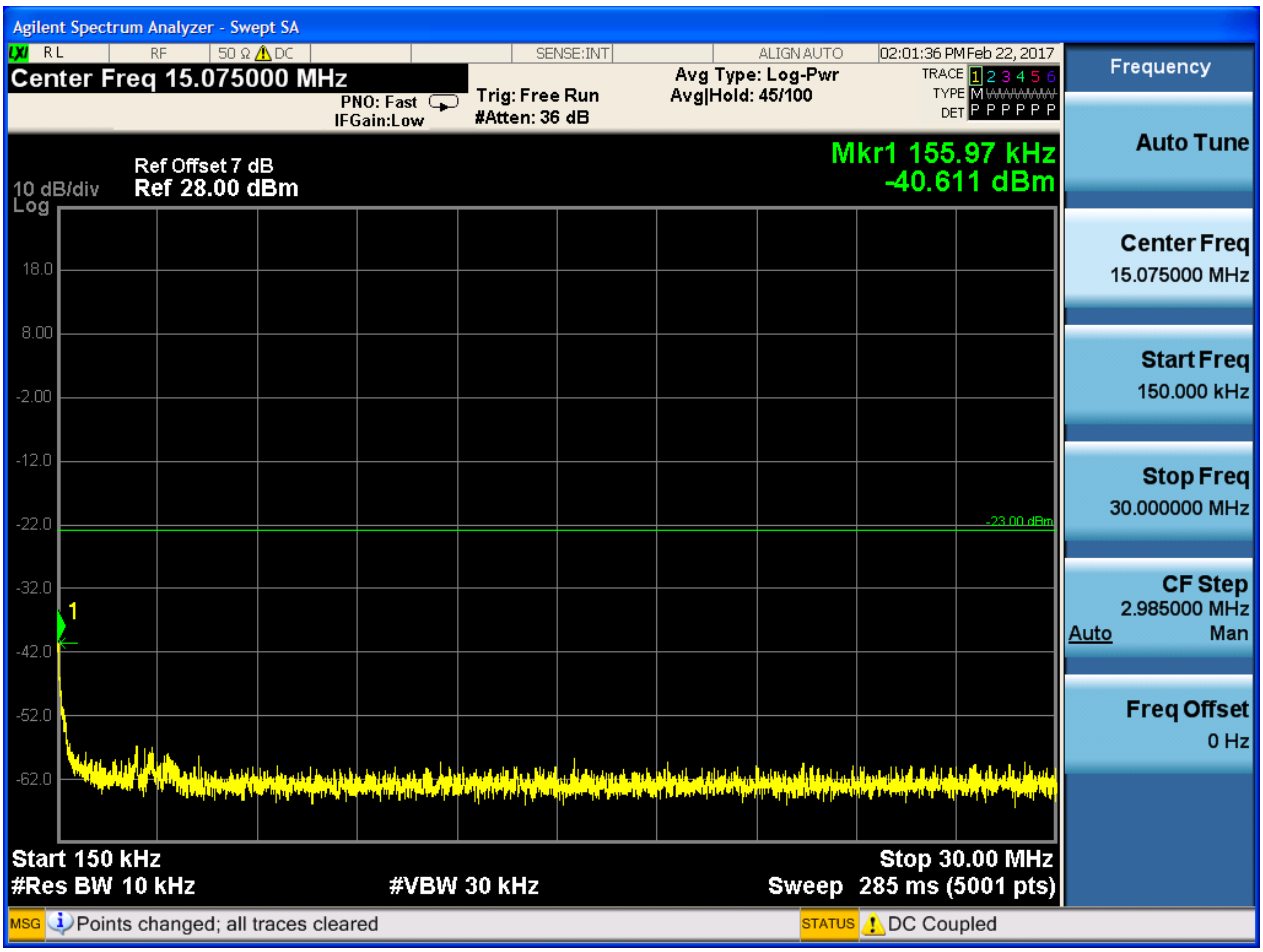

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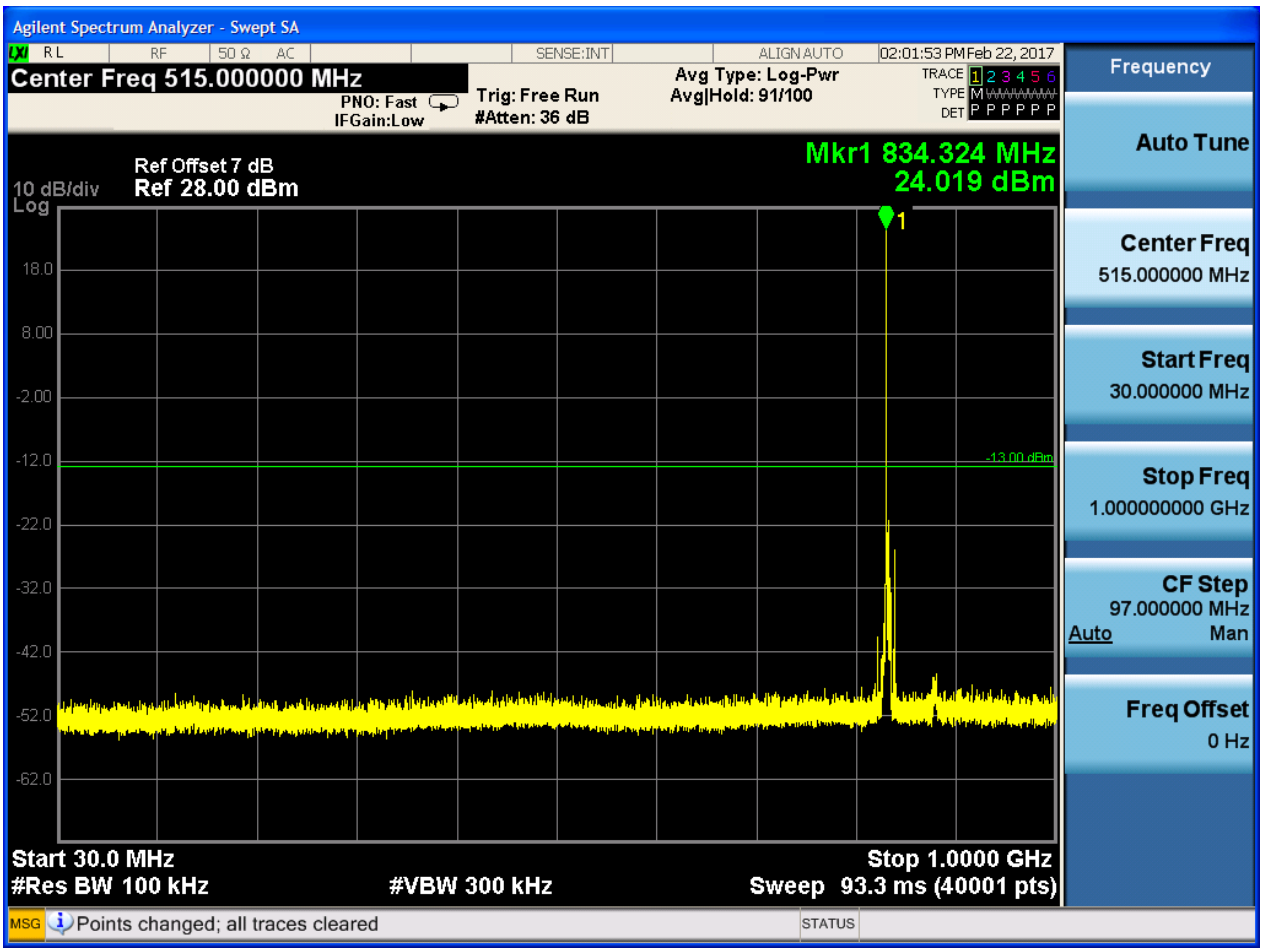

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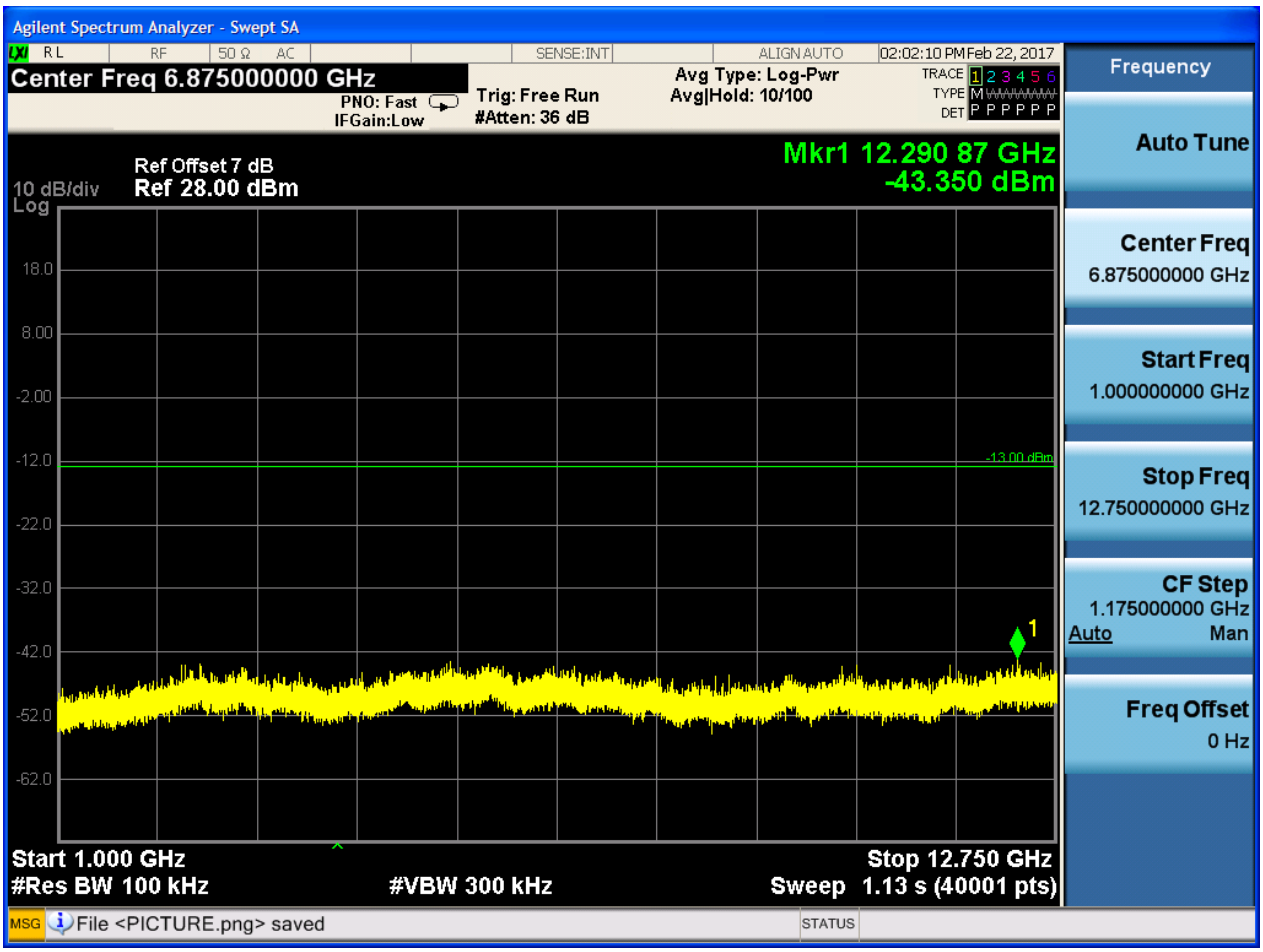

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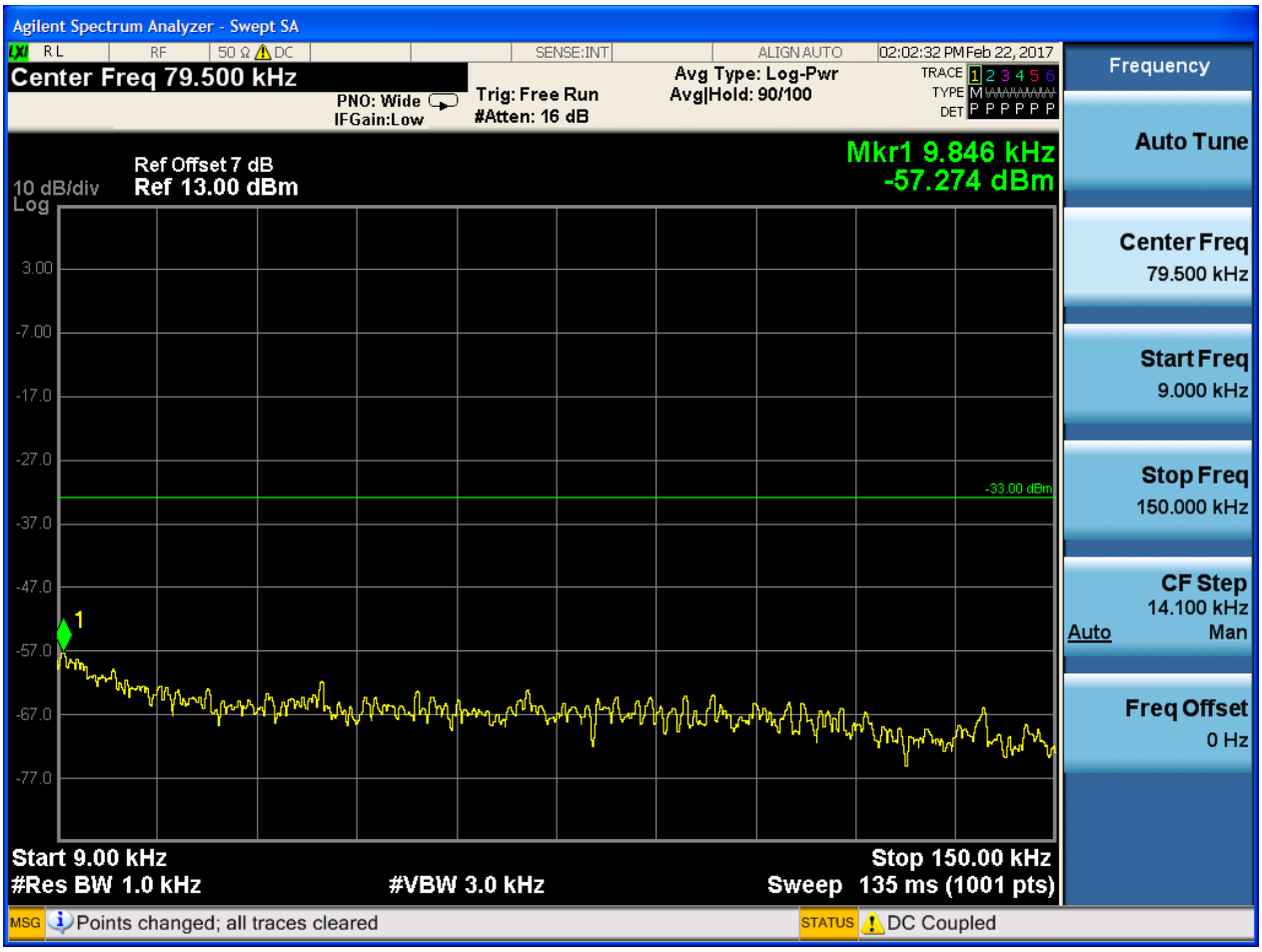
6.1.1.2.3.3 Test Channel = HCH

6.1.1.2.3.3.1 Test RB = RB1#0



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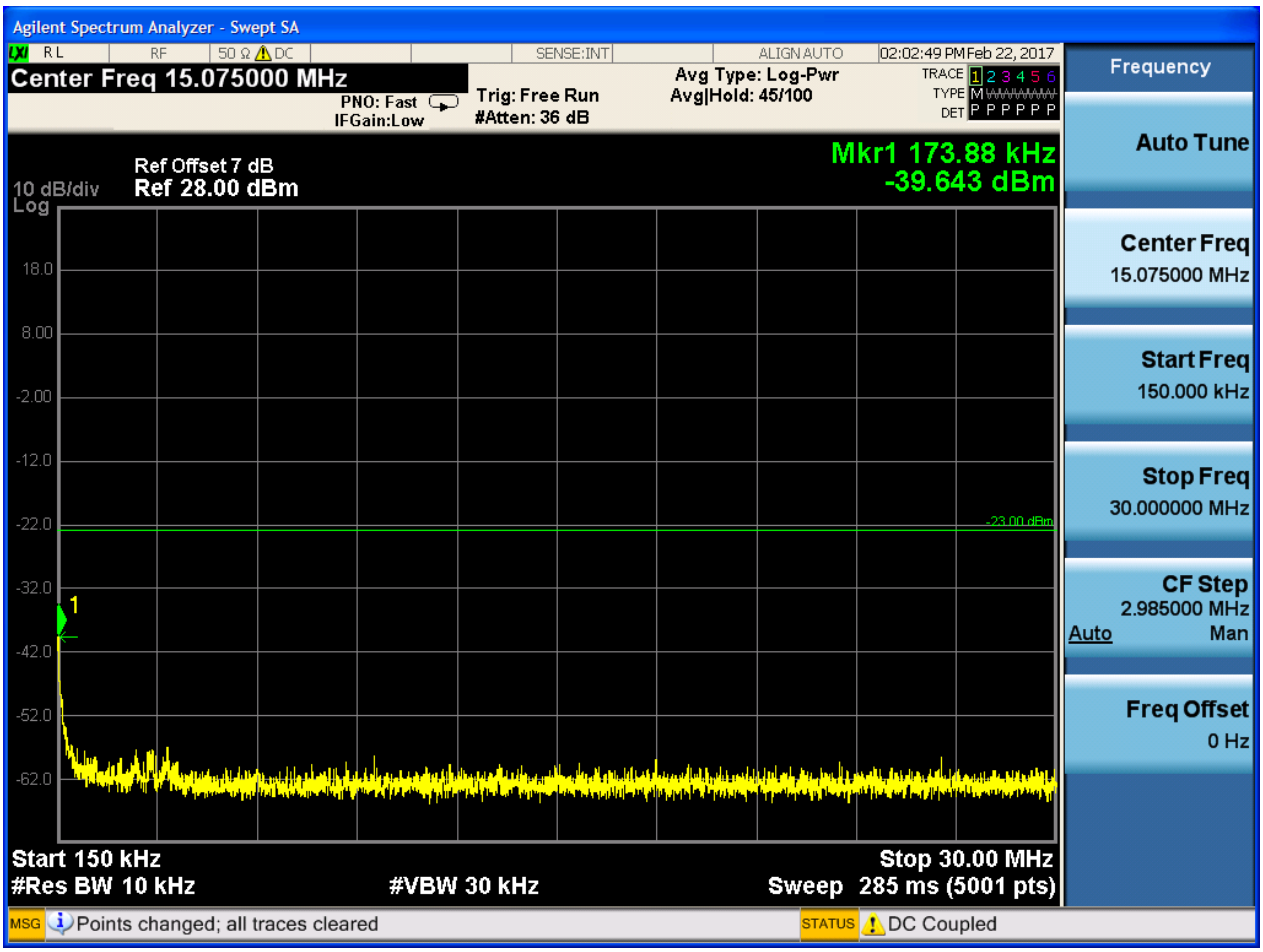

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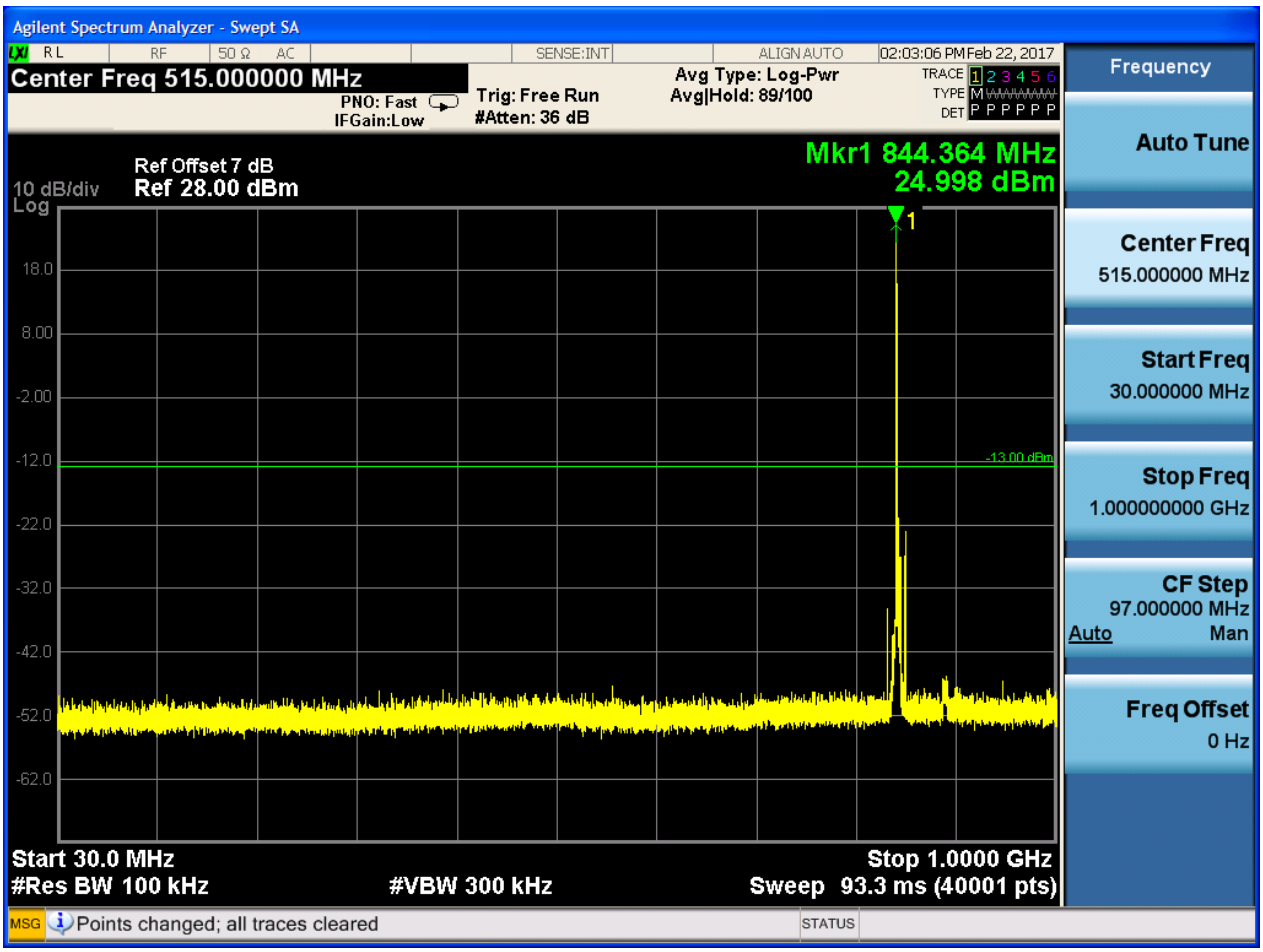

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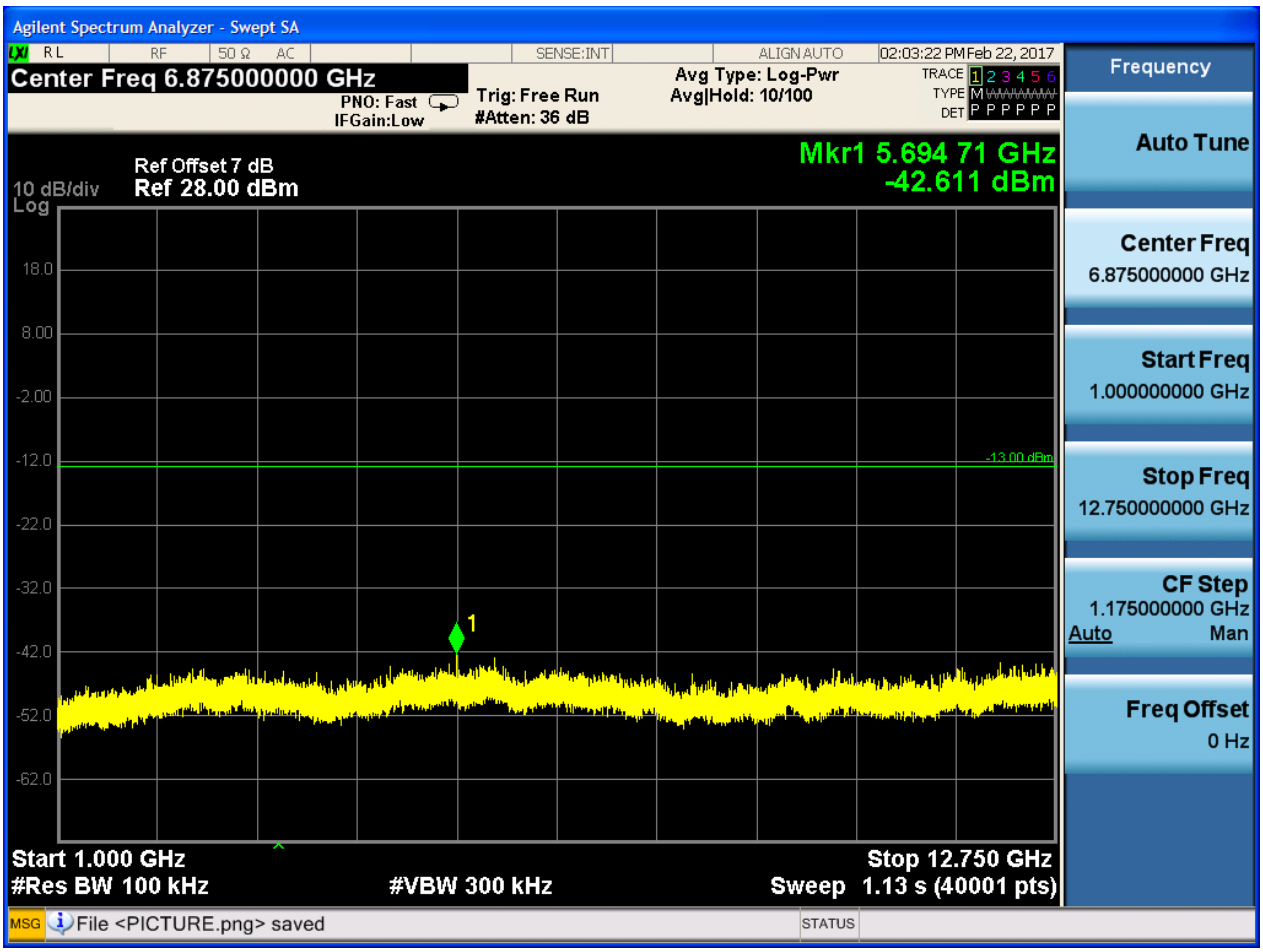

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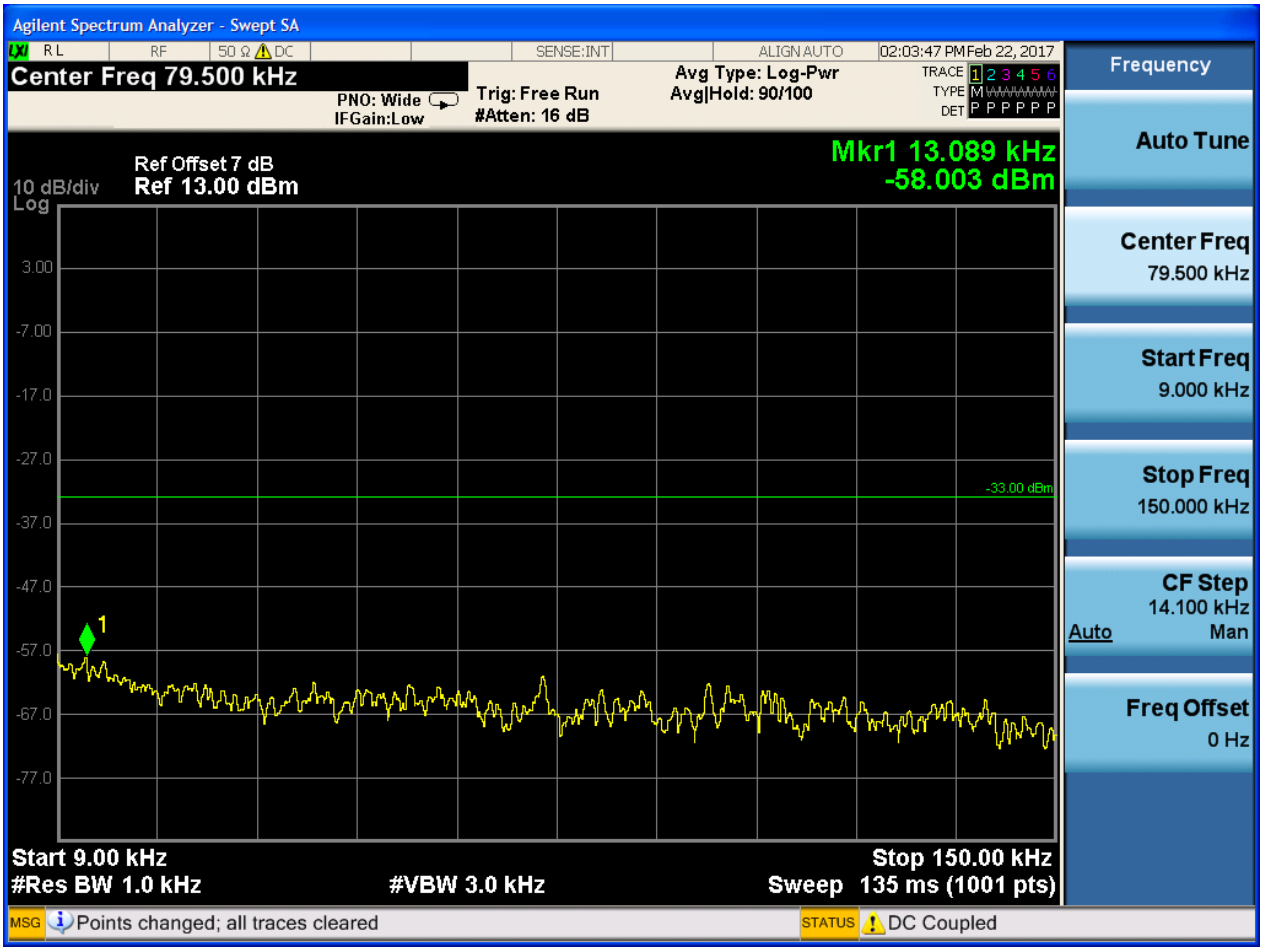
6.1.1.2.4 Test Bandwidth = 10

6.1.1.2.4.1 Test Channel = LCH

6.1.1.2.4.1.1 Test RB = RB1#0



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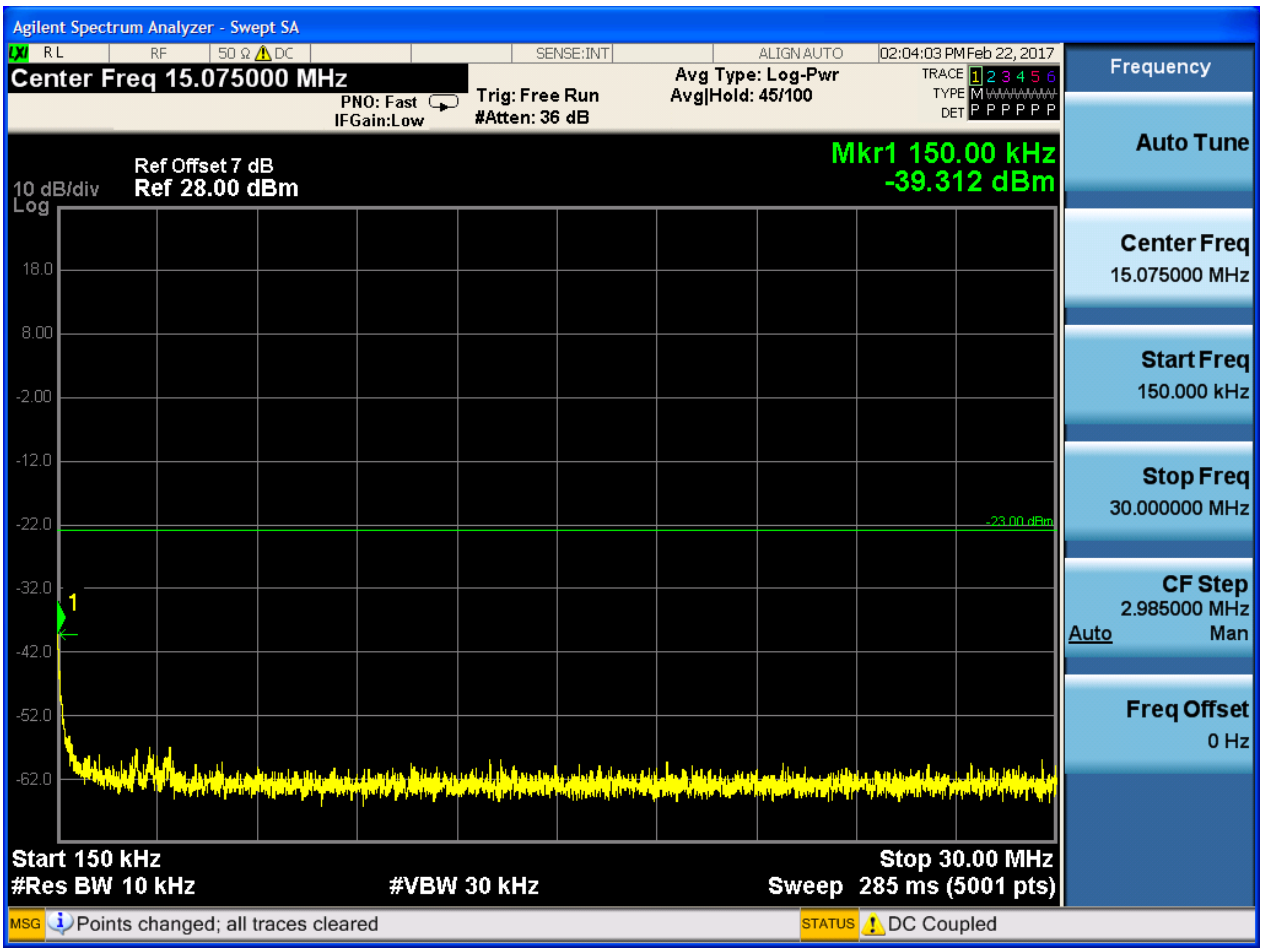

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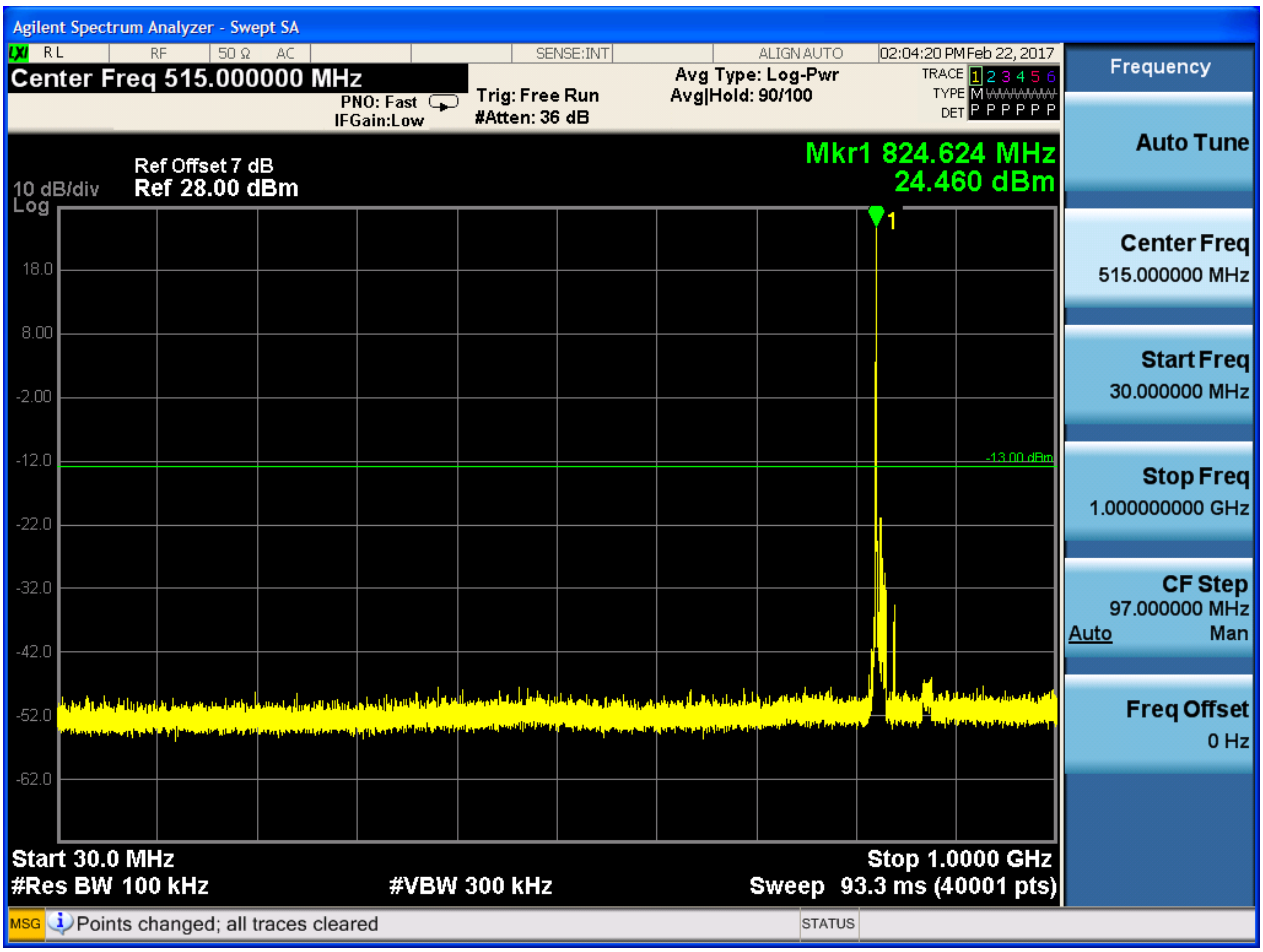

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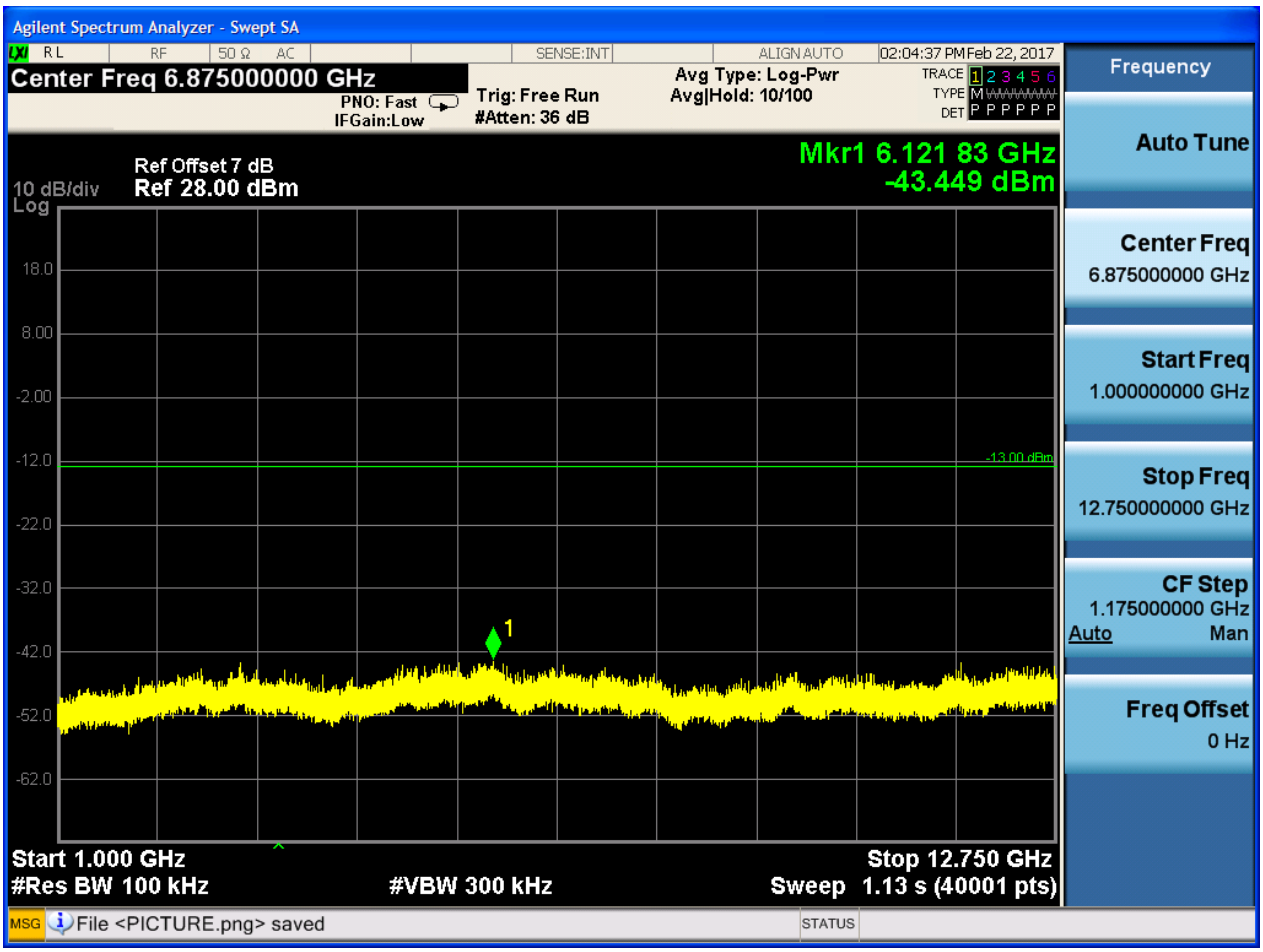

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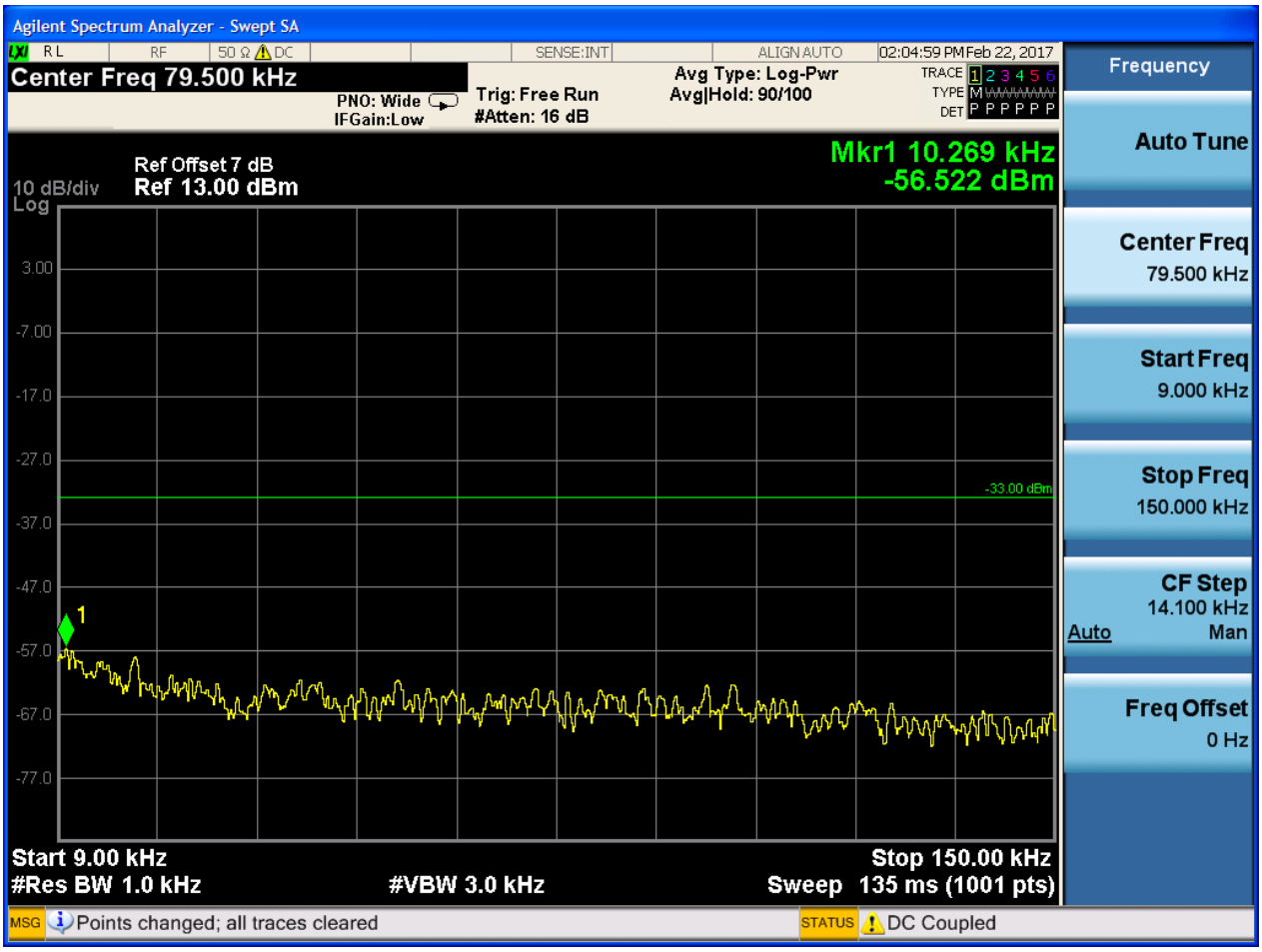
6.1.1.2.4.2 Test Channel = MCH

6.1.1.2.4.2.1 Test RB = RB1#0



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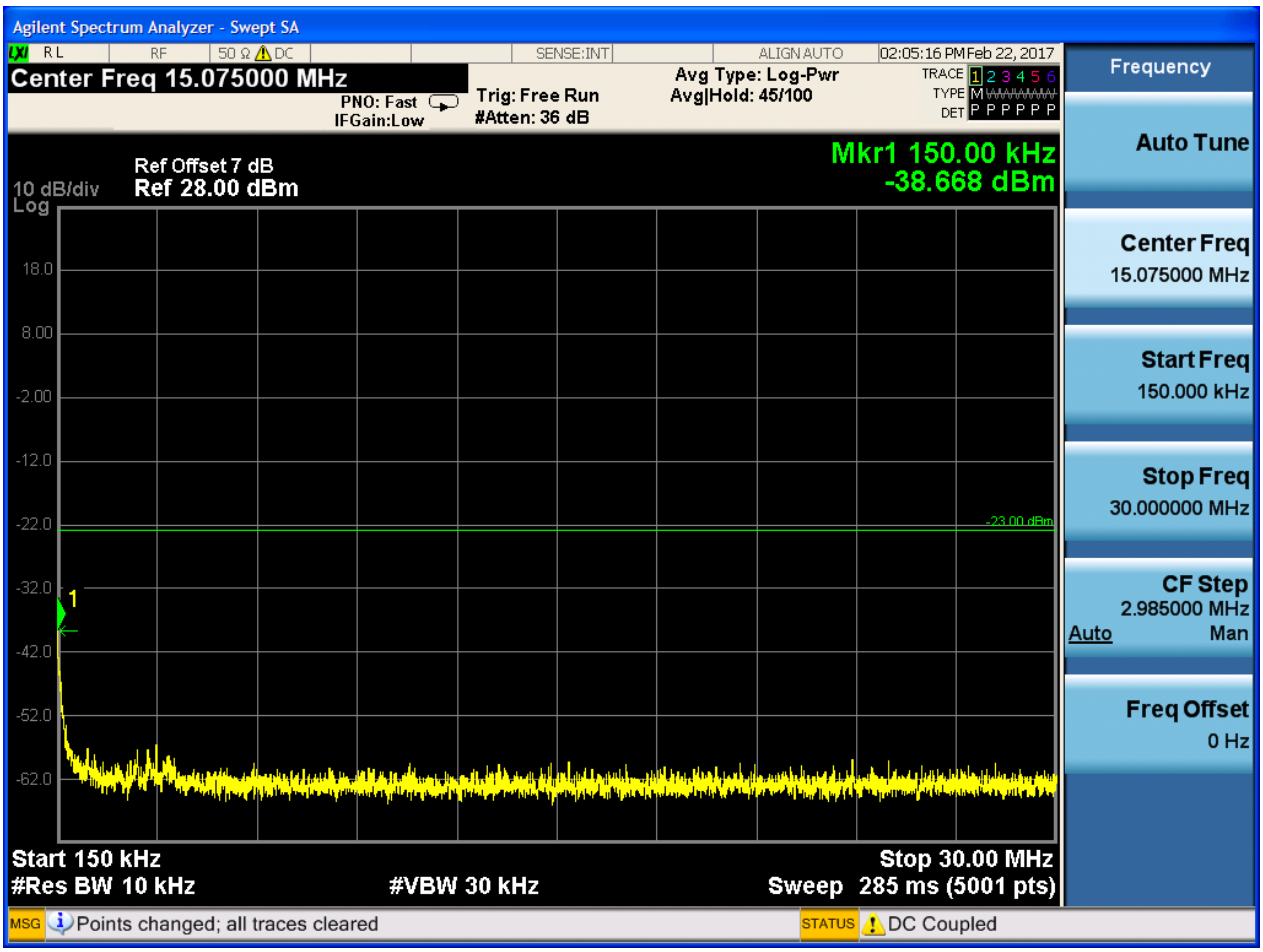

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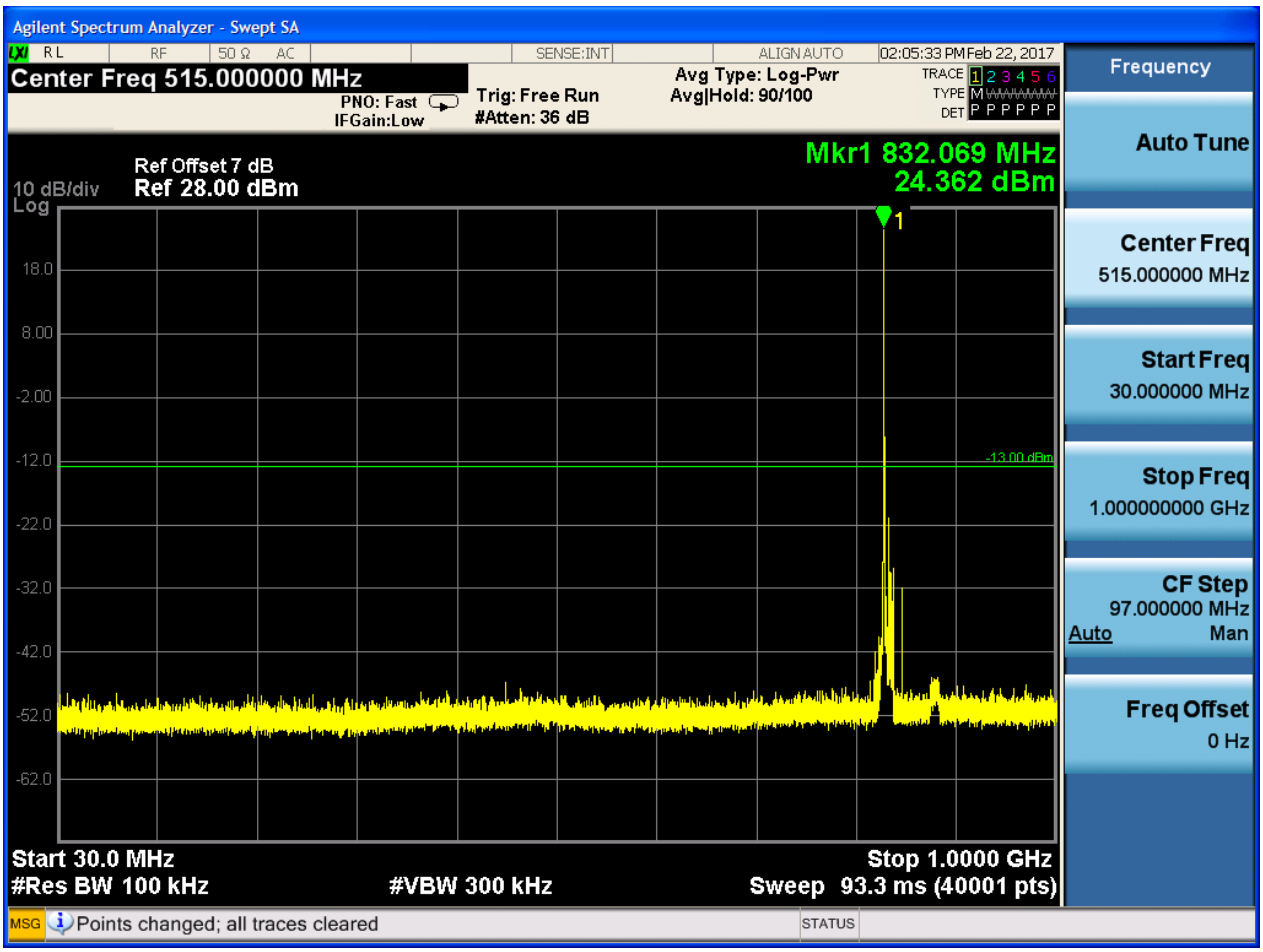

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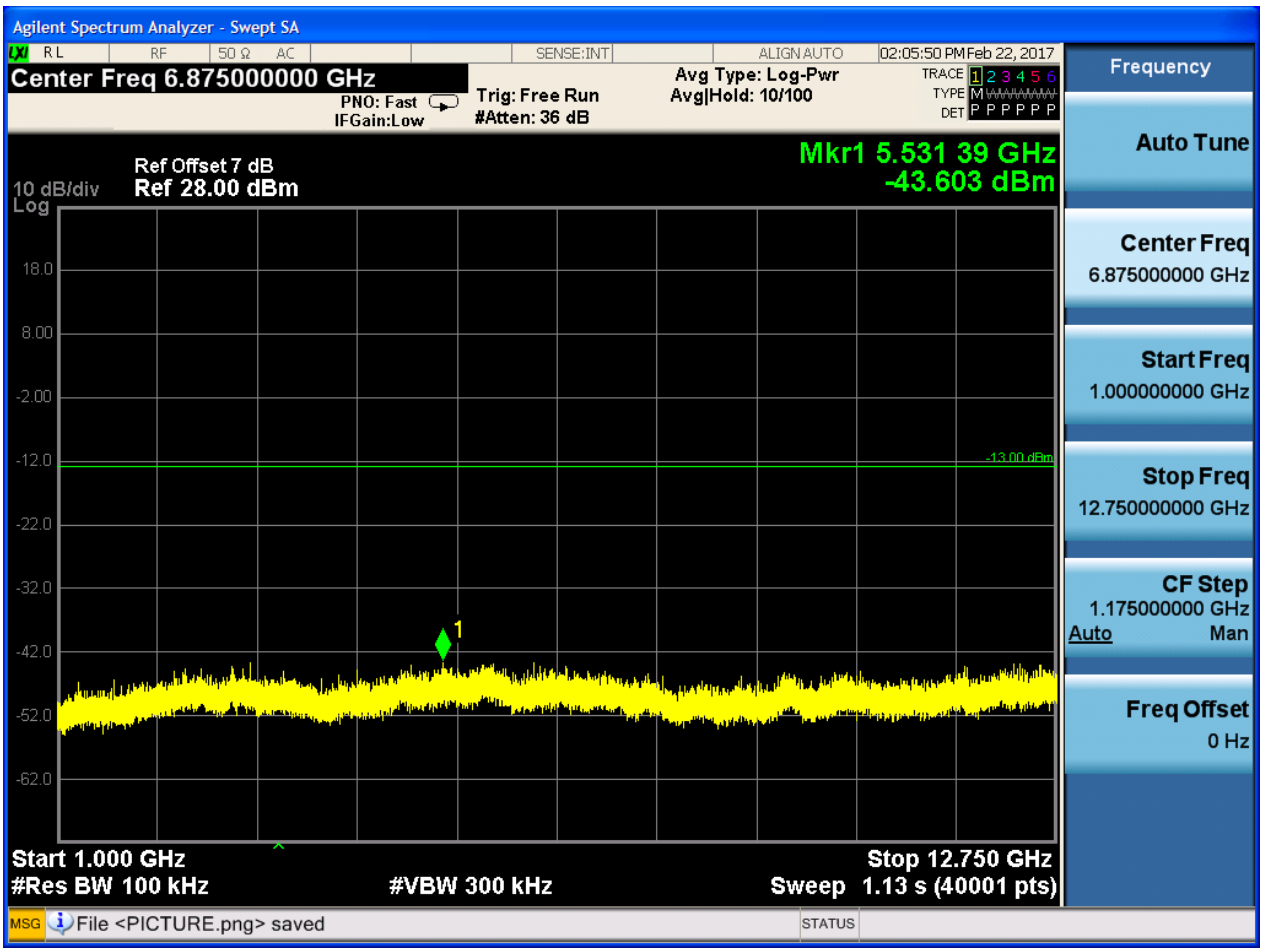

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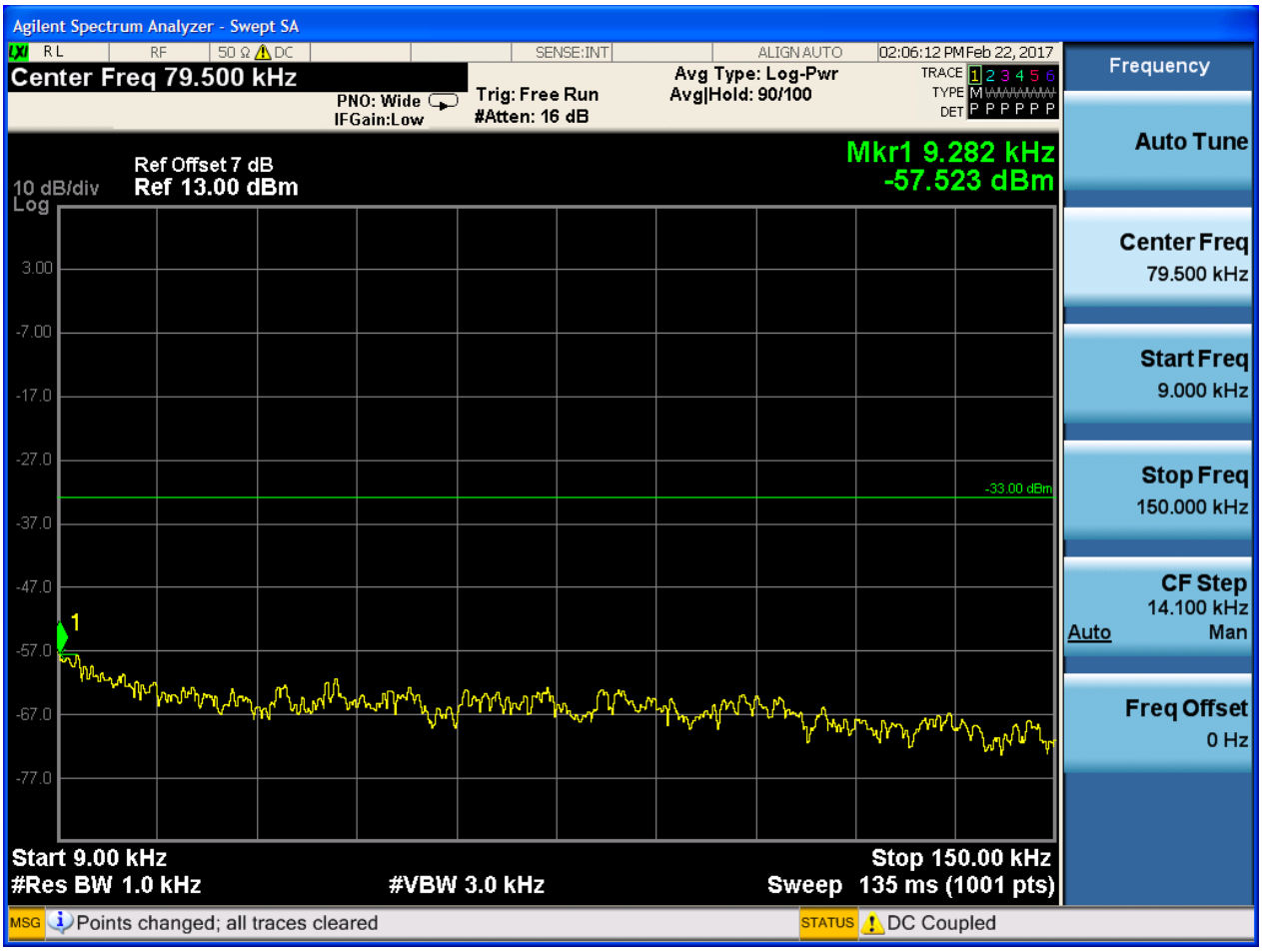
6.1.1.2.4.3 Test Channel = HCH

6.1.1.2.4.3.1 Test RB = RB1#0



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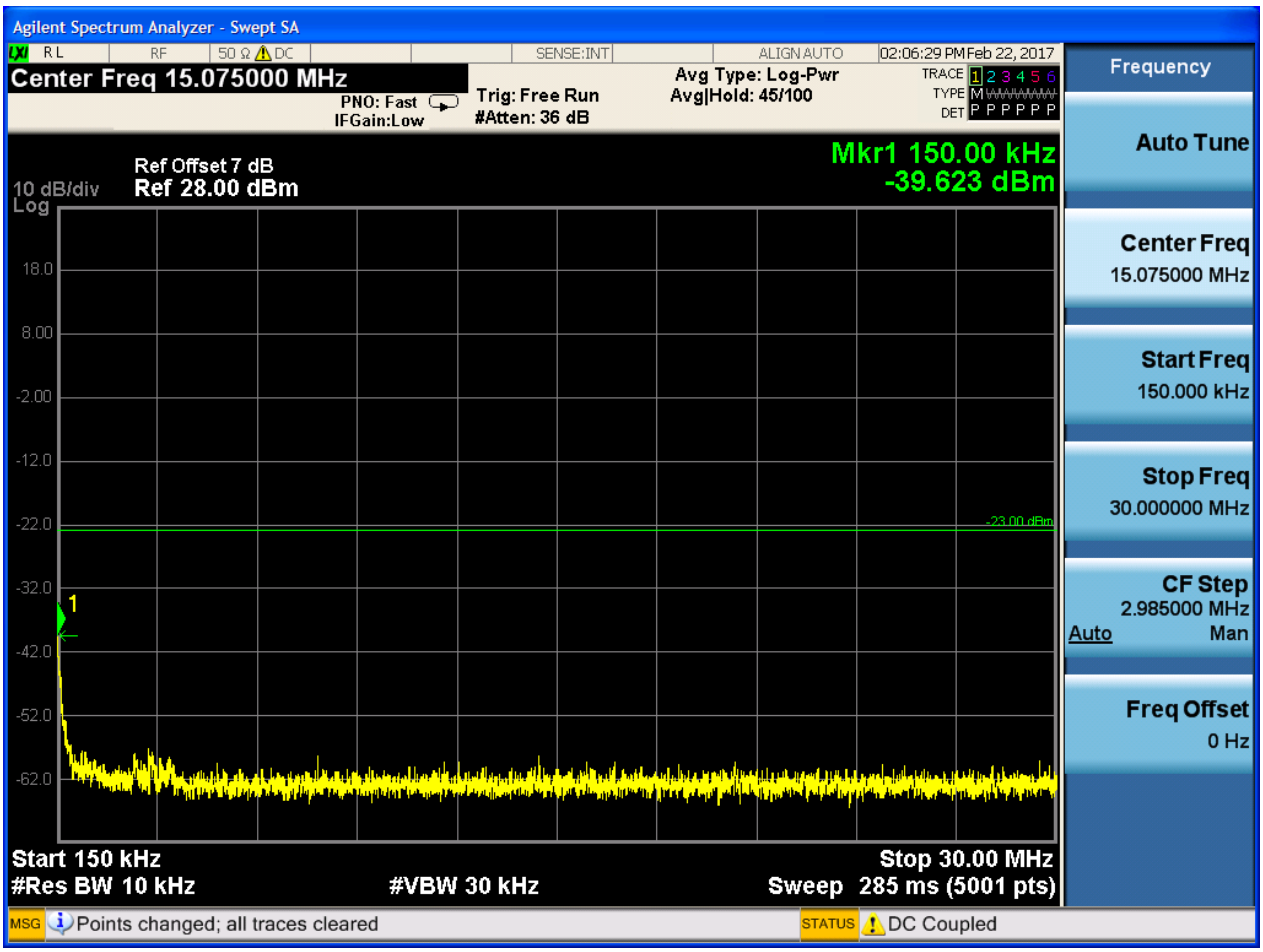

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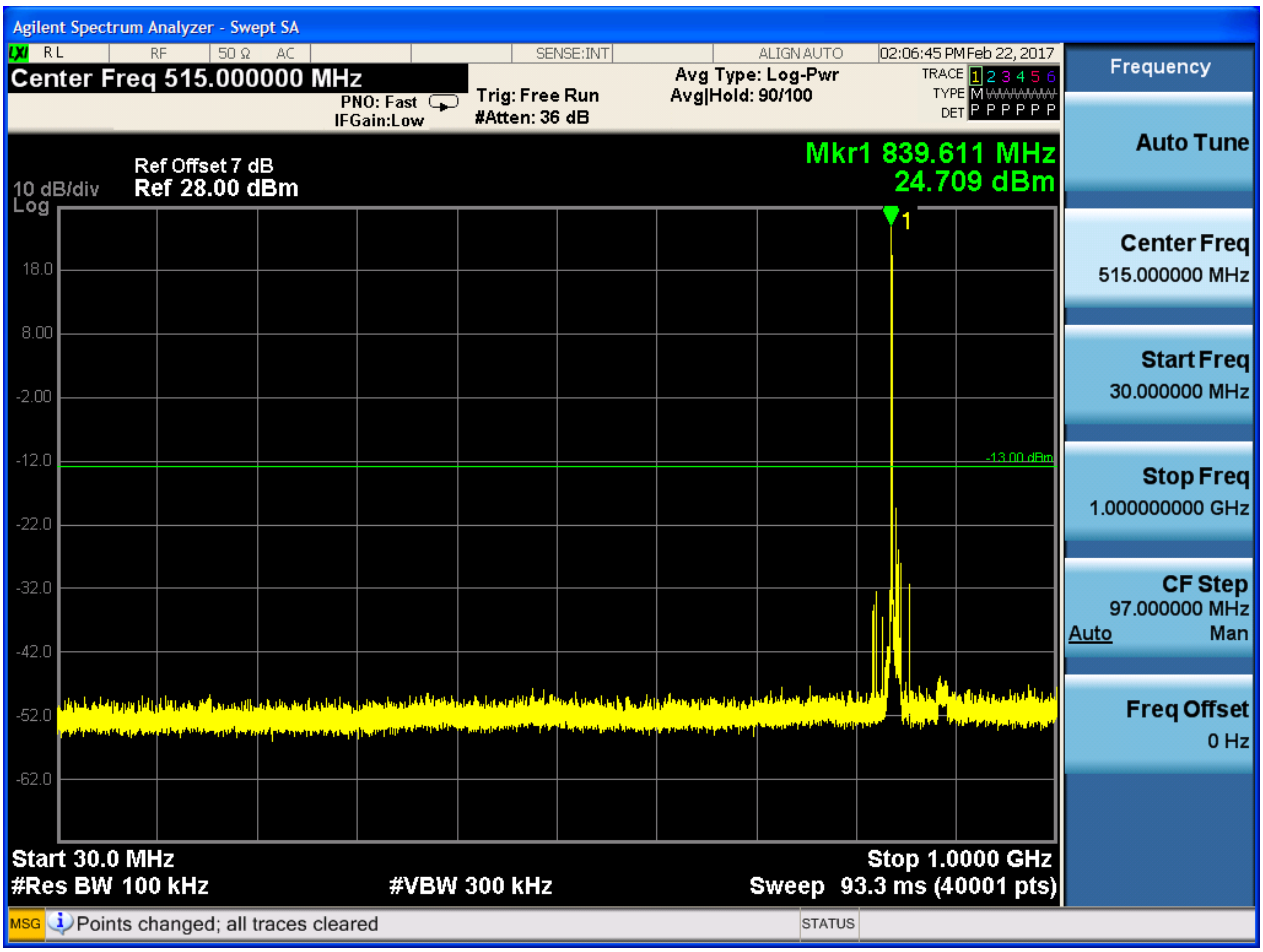

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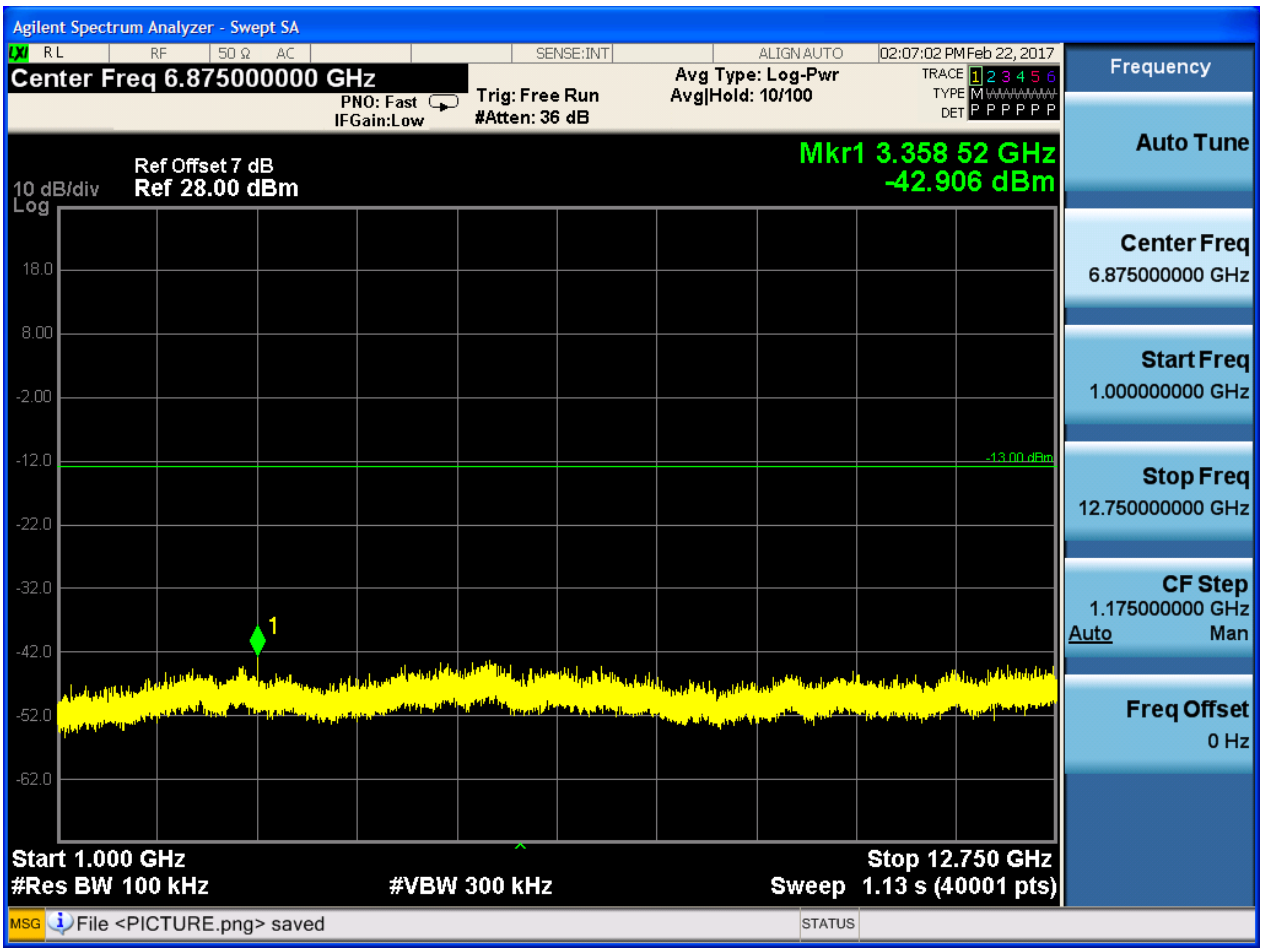

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7Appendix_G: Field Strength of Spurious Radiation

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

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

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

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

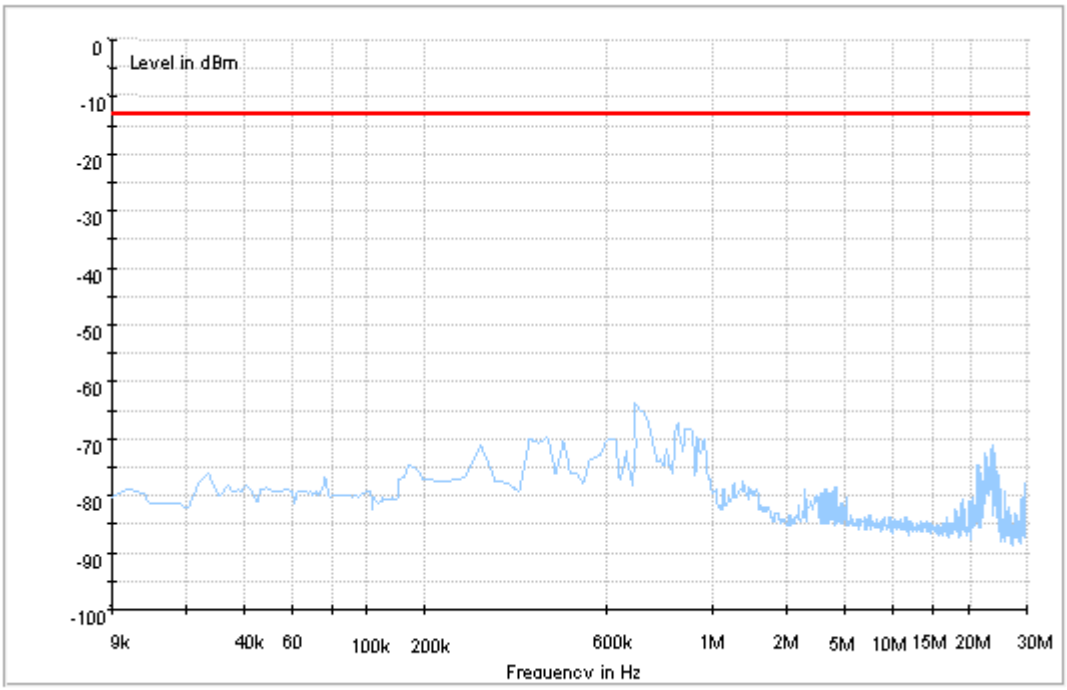
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Part I - Test Plots

7.1 For LTE

7.1.1 Test Band = BAND5

7.1.1.1 Test Bandwidth = 1.4



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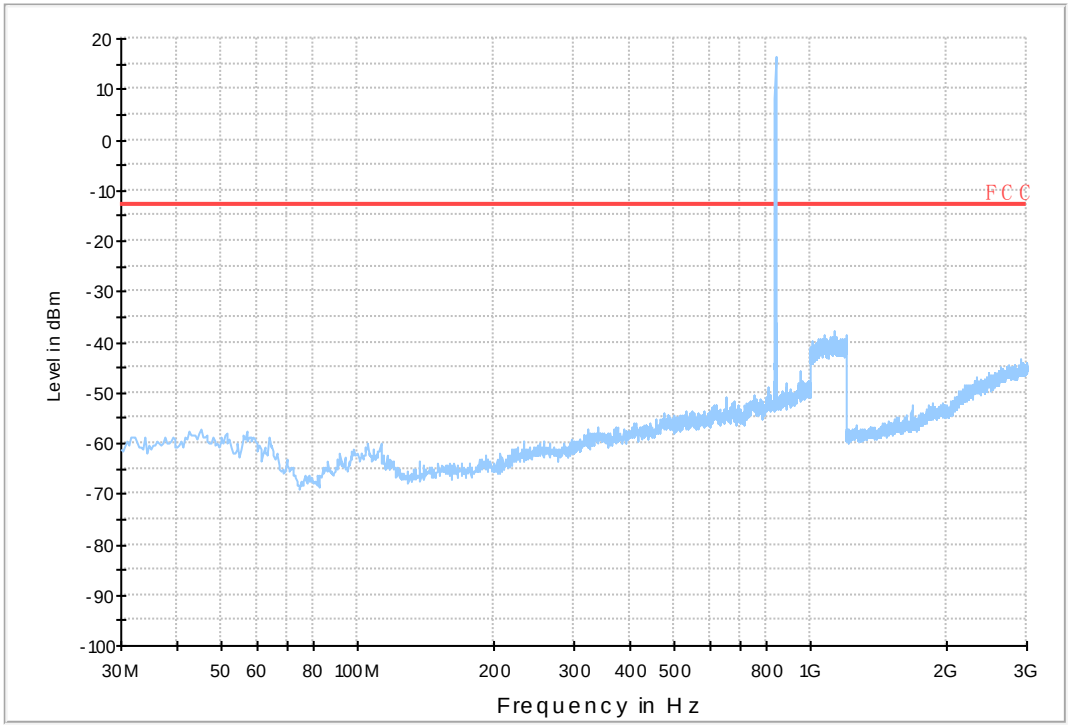
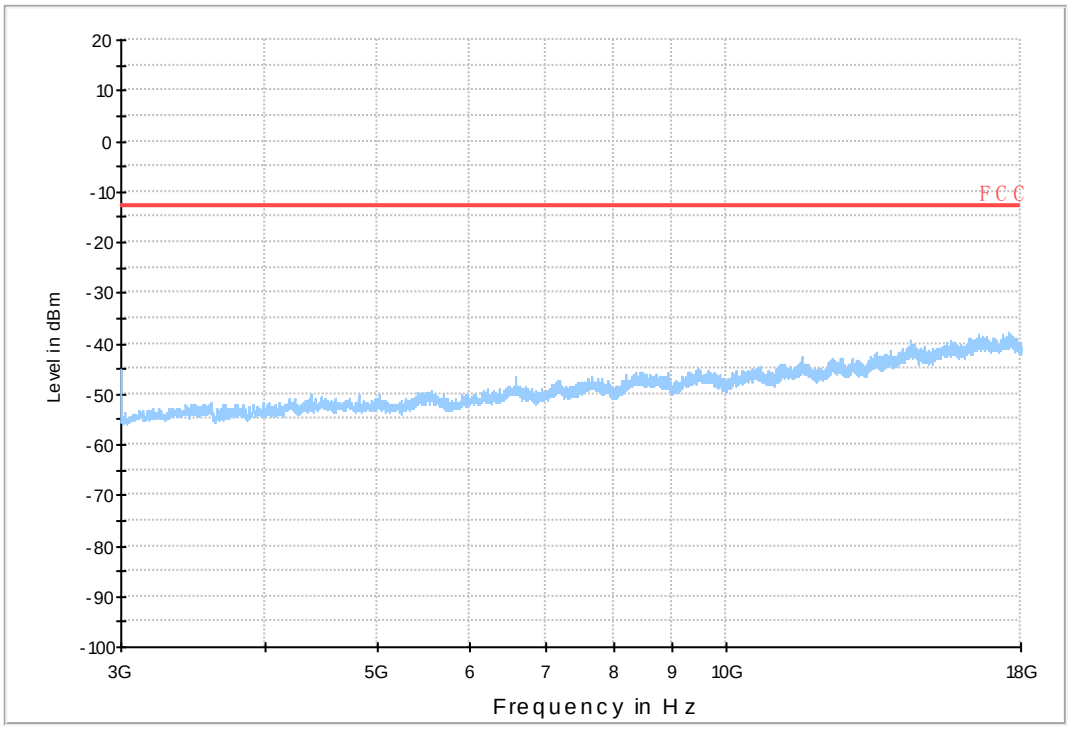
Copy of RSE-TX-DIRECTOR BELOW 1G_L



Copy of RSE-TX-DIRECTOR BELOW 1G_H



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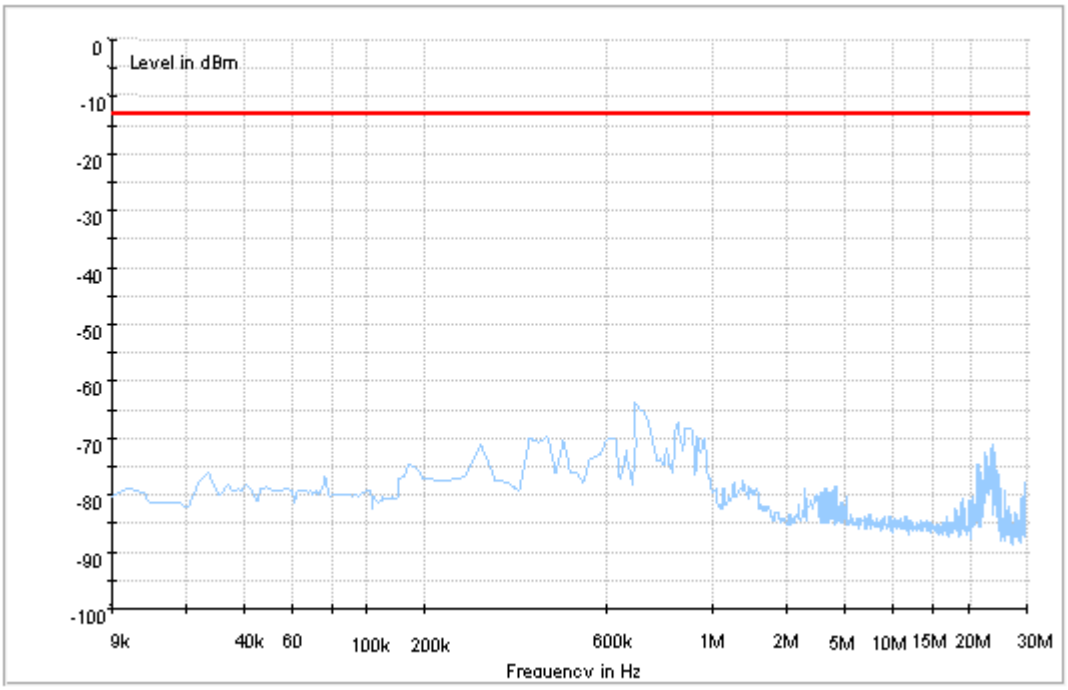
7.1.1.2 Test Bandwidth = 10



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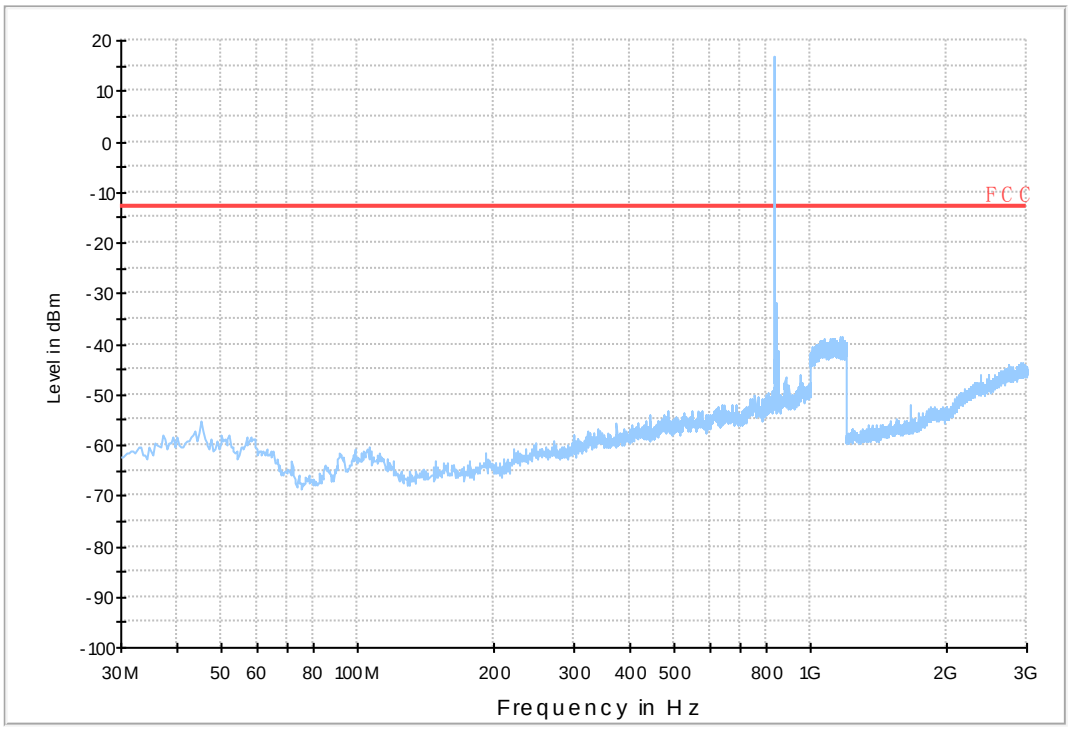

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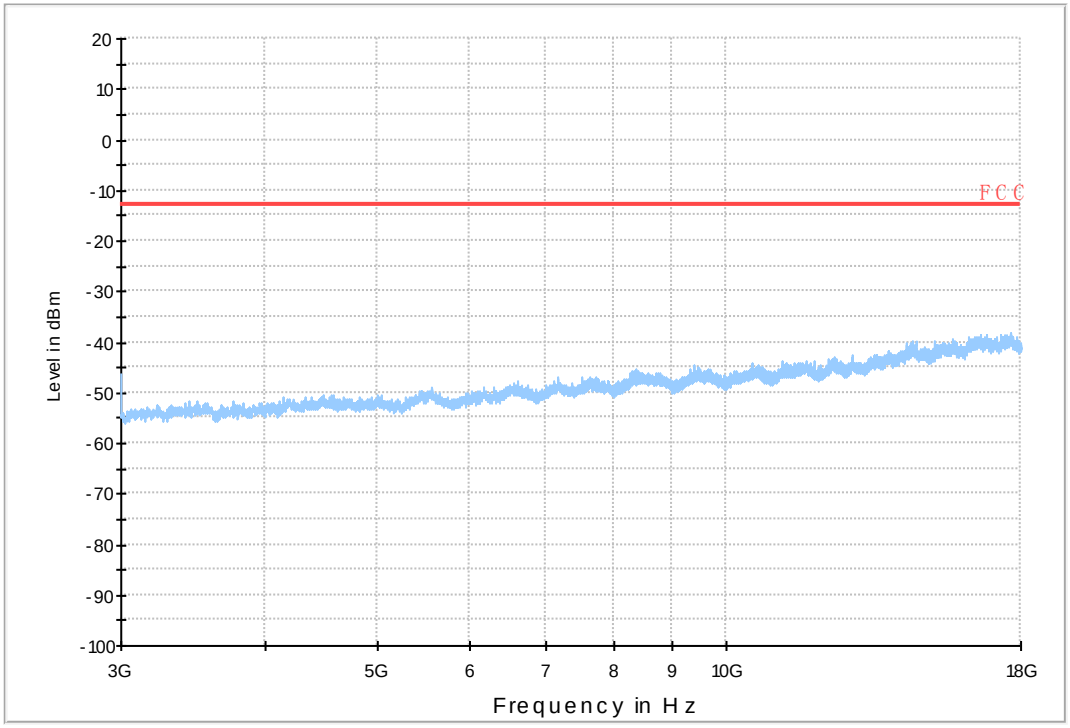

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8Appendix_H: Frequency Stability

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
BAND5	LTE/TM1	1.4	LCH	TN	VL	-0.46	-0.00056	PASS
					VN	5.56	0.00674	PASS
					VH	7.15	0.00867	PASS
			MCH	TN	VL	-0.44	-0.00053	PASS
					VN	-2.60	-0.00311	PASS
					VH	0.56	0.00067	PASS
			HCH	TN	VL	-1.62	-0.00191	PASS
					VN	5.94	0.007	PASS
					VH	-10.93	-0.01288	PASS
		3	LCH	TN	VL	-0.49	-0.00059	PASS
					VN	-0.94	-0.00114	PASS
					VH	-0.50	-0.00061	PASS
			MCH	TN	VL	-0.97	-0.00116	PASS
					VN	0.20	0.00024	PASS
					VH	-0.34	-0.00041	PASS
			HCH	TN	VL	-1.33	-0.00157	PASS
					VN	-1.24	-0.00146	PASS
					VH	-1.20	-0.00142	PASS
		5	LCH	TN	VL	-2.49	-0.00301	PASS
					VN	-0.92	-0.00111	PASS
					VH	-1.44	-0.00174	PASS
			MCH	TN	VL	-0.99	-0.00118	PASS
					VN	-0.60	-0.00072	PASS
					VH	-0.97	-0.00116	PASS
			HCH	TN	VL	-12.03	-0.01421	PASS
					VN	5.12	0.00605	PASS
					VH	-0.62	-0.00073	PASS
		10	LCH	TN	VL	-1.06	-0.00128	PASS
					VN	0.69	0.00083	PASS
					VH	-2.15	-0.00259	PASS
			MCH	TN	VL	-0.89	-0.00106	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	-0.51	-0.00061	PASS
					VH	0.06	0.00007	PASS
			HCH	TN	VL	-1.82	-0.00216	PASS
					VN	7.15	0.00847	PASS
					VH	-6.18	-0.00732	PASS
	LTE/TM2	1.4	LCH	TN	VL	-4.94	-0.00599	PASS
					VN	-7.02	-0.00851	PASS
					VH	-1.39	-0.00169	PASS
			MCH	TN	VL	-0.57	-0.00068	PASS
					VN	-1.07	-0.00128	PASS
					VH	-1.43	-0.00171	PASS
			HCH	TN	VL	-0.79	-0.00093	PASS
					VN	-3.59	-0.00423	PASS
					VH	7.17	0.00845	PASS
		3	LCH	TN	VL	-0.19	-0.00023	PASS
					VN	-1.02	-0.00124	PASS
					VH	0.39	0.00047	PASS
			MCH	TN	VL	-1.67	-0.002	PASS
					VN	-1.02	-0.00122	PASS
					VH	0.20	0.00024	PASS
			HCH	TN	VL	11.56	0.01364	PASS
					VN	-6.71	-0.00792	PASS
					VH	-8.05	-0.0095	PASS
		5	LCH	TN	VL	-3.26	-0.00394	PASS
					VN	-1.47	-0.00178	PASS
					VH	-2.49	-0.00301	PASS
			MCH	TN	VL	-1.20	-0.00143	PASS
					VN	-0.84	-0.001	PASS
					VH	-0.79	-0.00094	PASS
			HCH	TN	VL	9.88	0.01167	PASS
					VN	-3.63	-0.00429	PASS
					VH	-3.76	-0.00444	PASS
		10	LCH	TN	VL	1.06	0.00128	PASS
					VN	-2.07	-0.0025	PASS
					VH	-2.06	-0.00248	PASS
			MCH	TN	VL	-1.86	-0.00222	PASS
					VN	-1.47	-0.00176	PASS
					VH	-1.36	-0.00163	PASS
			HCH	TN	VL	-2.62	-0.0031	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	-9.33	-0.01105	PASS
					VH	-0.24	-0.00028	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	2.26	0.00274	PASS
					-20	0.92	0.00112	PASS
					-10	0.43	0.00052	PASS
					0	-4.66	-0.00565	PASS
					10	-0.29	-0.00035	PASS
					20	-4.31	-0.00523	PASS
					30	-3.40	-0.00412	PASS
					40	-1.79	-0.00217	PASS
					50	-0.24	-0.00029	PASS
			MCH	VN	-30	-0.36	-0.00043	PASS
					-20	-1.62	-0.00194	PASS
					-10	-1.22	-0.00146	PASS
					0	-1.85	-0.00221	PASS
					10	-1.75	-0.00209	PASS
					20	-0.80	-0.00096	PASS
					30	-0.72	-0.00086	PASS
					40	-1.57	-0.00188	PASS
					50	-0.03	-0.00004	PASS
			HCH	VN	-30	-2.25	-0.00265	PASS
					-20	-1.73	-0.00204	PASS
					-10	-1.42	-0.00167	PASS
					0	-0.73	-0.00086	PASS
					10	-0.49	-0.00058	PASS
					20	-0.14	-0.00017	PASS
					30	-1.54	-0.00182	PASS
					40	-0.11	-0.00013	PASS
					50	0.40	0.00047	PASS
		3	LCH	VN	-30	-0.11	-0.00013	PASS
					-20	0.31	0.00038	PASS
					-10	0.01	0.00001	PASS
					0	0.29	0.00035	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	-0.50	-0.00061	PASS
					20	-2.49	-0.00302	PASS
					30	1.36	0.00165	PASS
					40	-0.57	-0.00069	PASS
					50	-0.43	-0.00052	PASS
			MCH	VN	-30	-1.00	-0.0012	PASS
					-20	-0.69	-0.00082	PASS
					-10	0.31	0.00037	PASS
					0	0.73	0.00087	PASS
					10	0.43	0.00051	PASS
					20	-0.70	-0.00084	PASS
					30	0.66	0.00079	PASS
					40	-0.51	-0.00061	PASS
					50	0.06	0.00007	PASS
			HCH	VN	-30	-2.68	-0.00316	PASS
					-20	-6.84	-0.00807	PASS
					-10	8.91	0.01051	PASS
					0	-8.37	-0.00988	PASS
					10	-0.70	-0.00083	PASS
					20	-0.19	-0.00022	PASS
					30	-1.43	-0.00169	PASS
					40	1.47	0.00173	PASS
					50	4.99	0.00589	PASS
		5	LCH	VN	-30	-0.83	-0.001	PASS
					-20	-2.66	-0.00322	PASS
					-10	-3.08	-0.00373	PASS
					0	-0.86	-0.00104	PASS
					10	-2.36	-0.00286	PASS
					20	-1.73	-0.00209	PASS
					30	-1.09	-0.00132	PASS
					40	-3.03	-0.00367	PASS
					50	-2.13	-0.00258	PASS
			MCH	VN	-30	0.59	0.00071	PASS
					-20	-0.89	-0.00106	PASS
					-10	-0.70	-0.00084	PASS
					0	-0.40	-0.00048	PASS
					10	-0.66	-0.00079	PASS
					20	-1.69	-0.00202	PASS
					30	-1.37	-0.00164	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	-0.51	-0.00061	PASS
					50	-0.36	-0.00043	PASS
			HCH	VN	-30	2.33	0.00275	PASS
					-20	0.87	0.00103	PASS
					-10	1.59	0.00188	PASS
					0	16.68	0.0197	PASS
					10	3.06	0.00361	PASS
					20	-5.35	-0.00632	PASS
					30	-1.85	-0.00219	PASS
					40	10.00	0.01181	PASS
					50	2.70	0.00319	PASS
		10	LCH	VN	-30	0.63	0.00076	PASS
					-20	-0.82	-0.00099	PASS
					-10	-0.17	-0.00021	PASS
					0	-1.73	-0.00209	PASS
					10	0.16	0.00019	PASS
					20	-0.20	-0.00024	PASS
					30	-0.89	-0.00107	PASS
					40	-1.14	-0.00138	PASS
					50	-1.66	-0.002	PASS
			MCH	VN	-30	0.20	0.00024	PASS
					-20	0.67	0.0008	PASS
					-10	-2.16	-0.00258	PASS
					0	-0.40	-0.00048	PASS
					10	-0.10	-0.00012	PASS
					20	-0.89	-0.00106	PASS
					30	-0.20	-0.00024	PASS
					40	-0.30	-0.00036	PASS
					50	-0.40	-0.00048	PASS
			HCH	VN	-30	-6.02	-0.00713	PASS
					-20	1.19	0.00141	PASS
					-10	11.03	0.01307	PASS
					0	-2.06	-0.00244	PASS
					10	2.62	0.0031	PASS
					20	3.25	0.00385	PASS
					30	2.33	0.00276	PASS
					40	-0.76	-0.0009	PASS
					50	2.78	0.00329	PASS
	LTE/TM2	1.4	LCH	VN	-30	-1.03	-0.00125	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	-1.14	-0.00138	PASS
					-10	-3.40	-0.00412	PASS
					0	-4.36	-0.00529	PASS
					10	-0.07	-0.00008	PASS
					20	-3.95	-0.00479	PASS
					30	-1.20	-0.00146	PASS
					40	-2.69	-0.00326	PASS
					50	-3.45	-0.00418	PASS
			MCH	VN	-30	-0.01	-0.00001	PASS
					-20	-1.10	-0.00132	PASS
					-10	-0.01	-0.00001	PASS
					0	-1.23	-0.00147	PASS
					10	-1.20	-0.00143	PASS
					20	0.11	0.00013	PASS
					30	-0.74	-0.00088	PASS
					40	-1.73	-0.00207	PASS
					50	-1.24	-0.00148	PASS
			HCH	VN	-30	-0.37	-0.00044	PASS
					-20	-0.92	-0.00108	PASS
					-10	-0.14	-0.00017	PASS
					0	1.12	0.00132	PASS
					10	0.50	0.00059	PASS
					20	0.67	0.00079	PASS
					30	-0.01	-0.00001	PASS
					40	6.59	0.00777	PASS
					50	-2.15	-0.00253	PASS
		3	LCH	VN	-30	-0.11	-0.00013	PASS
					-20	-1.53	-0.00185	PASS
					-10	2.10	0.00254	PASS
					0	1.30	0.00157	PASS
					10	0.27	0.00033	PASS
					20	0.06	0.00007	PASS
					30	1.34	0.00162	PASS
					40	-2.09	-0.00253	PASS
					50	0.41	0.0005	PASS
			MCH	VN	-30	-1.10	-0.00132	PASS
					-20	-2.15	-0.00257	PASS
					-10	-2.03	-0.00243	PASS
					0	-0.23	-0.00027	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	-0.54	-0.00065	PASS
					20	-0.69	-0.00082	PASS
					30	-0.66	-0.00079	PASS
					40	-2.02	-0.00241	PASS
					50	-1.59	-0.0019	PASS
			HCH	VN	-30	-1.16	-0.00137	PASS
					-20	3.50	0.00413	PASS
					-10	-2.83	-0.00334	PASS
					0	9.31	0.01099	PASS
					10	0.82	0.00097	PASS
					20	-3.03	-0.00358	PASS
					30	-2.17	-0.00256	PASS
					40	-1.19	-0.0014	PASS
					50	0.96	0.00113	PASS
		5	LCH	VN	-30	-1.23	-0.00149	PASS
					-20	-2.20	-0.00266	PASS
					-10	-0.47	-0.00057	PASS
					0	-2.85	-0.00345	PASS
					10	-0.70	-0.00085	PASS
					20	-0.43	-0.00052	PASS
					30	-1.75	-0.00212	PASS
					40	-1.85	-0.00224	PASS
					50	-0.97	-0.00117	PASS
			MCH	VN	-30	-1.37	-0.00164	PASS
					-20	-0.04	-0.00005	PASS
					-10	0.07	0.00008	PASS
					0	0.70	0.00084	PASS
					10	0.29	0.00035	PASS
					20	-0.62	-0.00074	PASS
					30	-0.16	-0.00019	PASS
					40	-1.29	-0.00154	PASS
					50	-0.72	-0.00086	PASS
			HCH	VN	-30	-2.36	-0.00279	PASS
					-20	-1.63	-0.00193	PASS
					-10	2.07	0.00245	PASS
					0	-15.31	-0.01809	PASS
					10	-0.84	-0.00099	PASS
					20	1.99	0.00235	PASS
					30	-1.89	-0.00223	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	0.43	0.00051	PASS
					50	-4.39	-0.00519	PASS
		10	LCH	VN	-30	-0.76	-0.00092	PASS
					-20	-1.49	-0.0018	PASS
					-10	-2.22	-0.00268	PASS
					0	-0.99	-0.00119	PASS
					10	-1.49	-0.0018	PASS
					20	-1.02	-0.00123	PASS
					30	-1.32	-0.00159	PASS
					40	-2.59	-0.00312	PASS
					50	-2.30	-0.00277	PASS
			MCH	VN	-30	-0.60	-0.00072	PASS
					-20	-2.66	-0.00318	PASS
					-10	-0.49	-0.00059	PASS
					0	-0.72	-0.00086	PASS
					10	-0.19	-0.00023	PASS
					20	-1.13	-0.00135	PASS
					30	-0.27	-0.00032	PASS
					40	-1.29	-0.00154	PASS
					50	-0.13	-0.00016	PASS
			HCH	VN	-30	-0.51	-0.0006	PASS
					-20	-1.50	-0.00178	PASS
					-10	-1.32	-0.00156	PASS
					0	-1.19	-0.00141	PASS
					10	-0.50	-0.00059	PASS
					20	-1.89	-0.00224	PASS
					30	-4.85	-0.00575	PASS
					40	0.33	0.00039	PASS
					50	3.02	0.00358	PASS

END

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