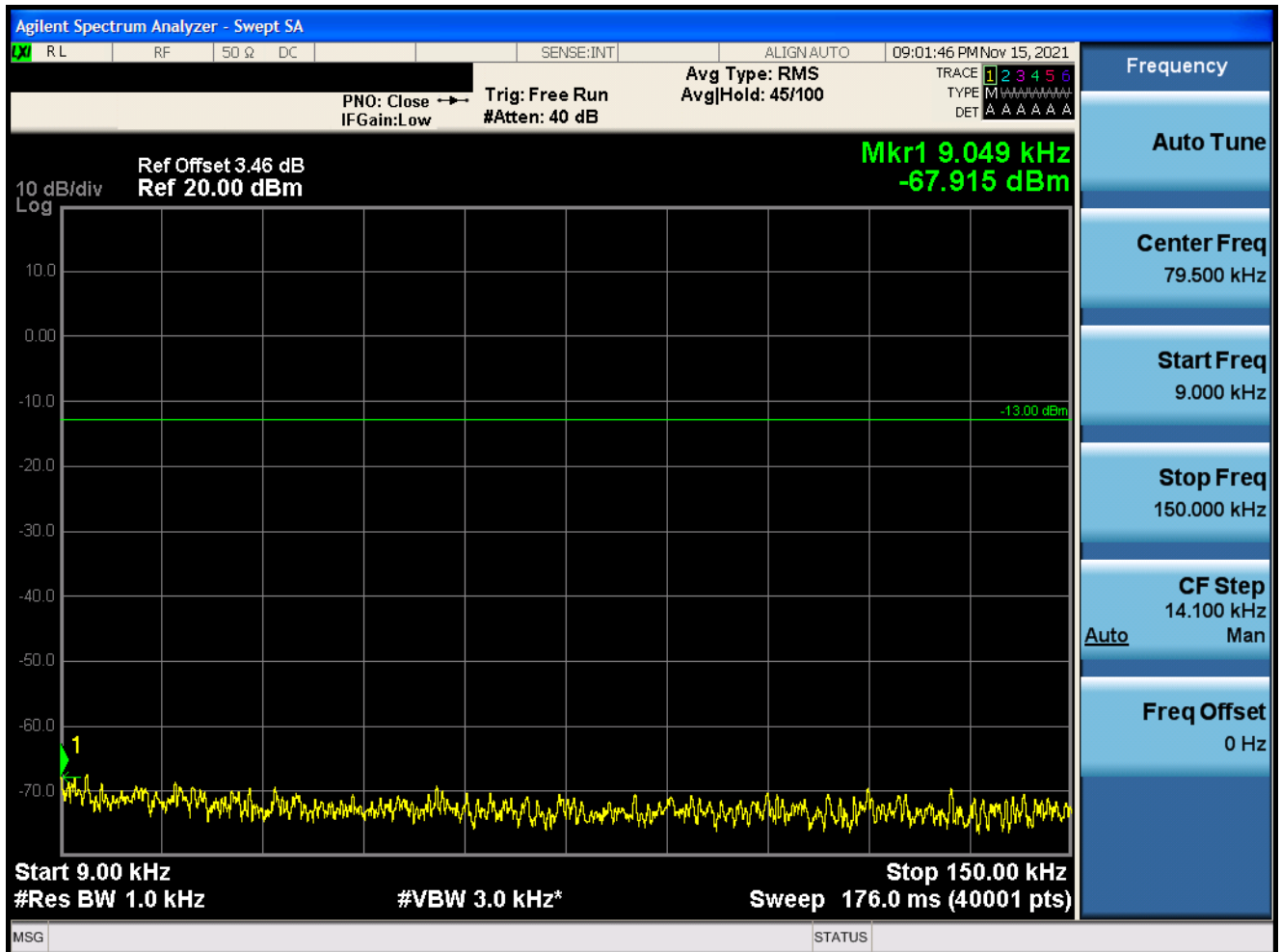
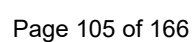
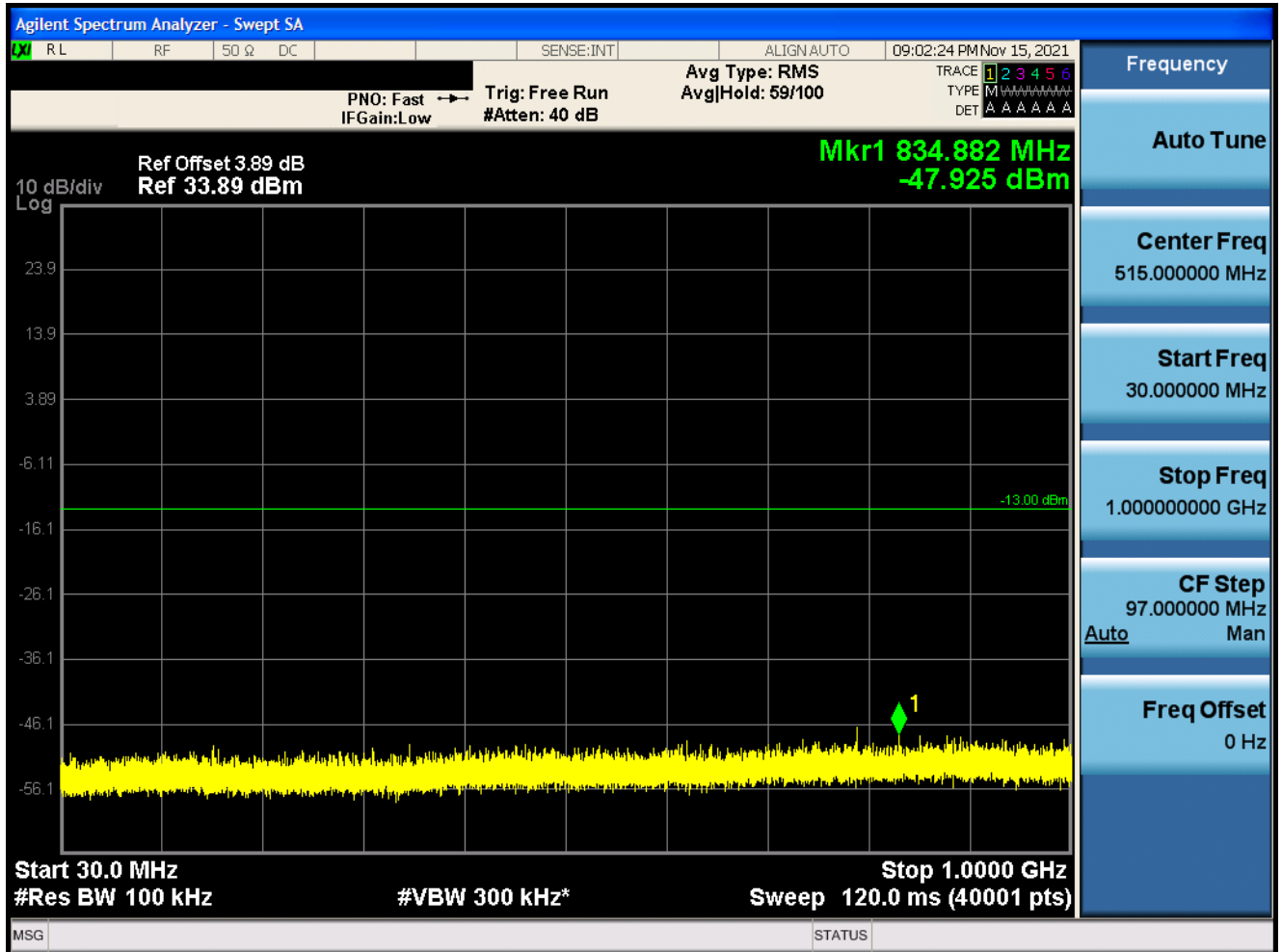
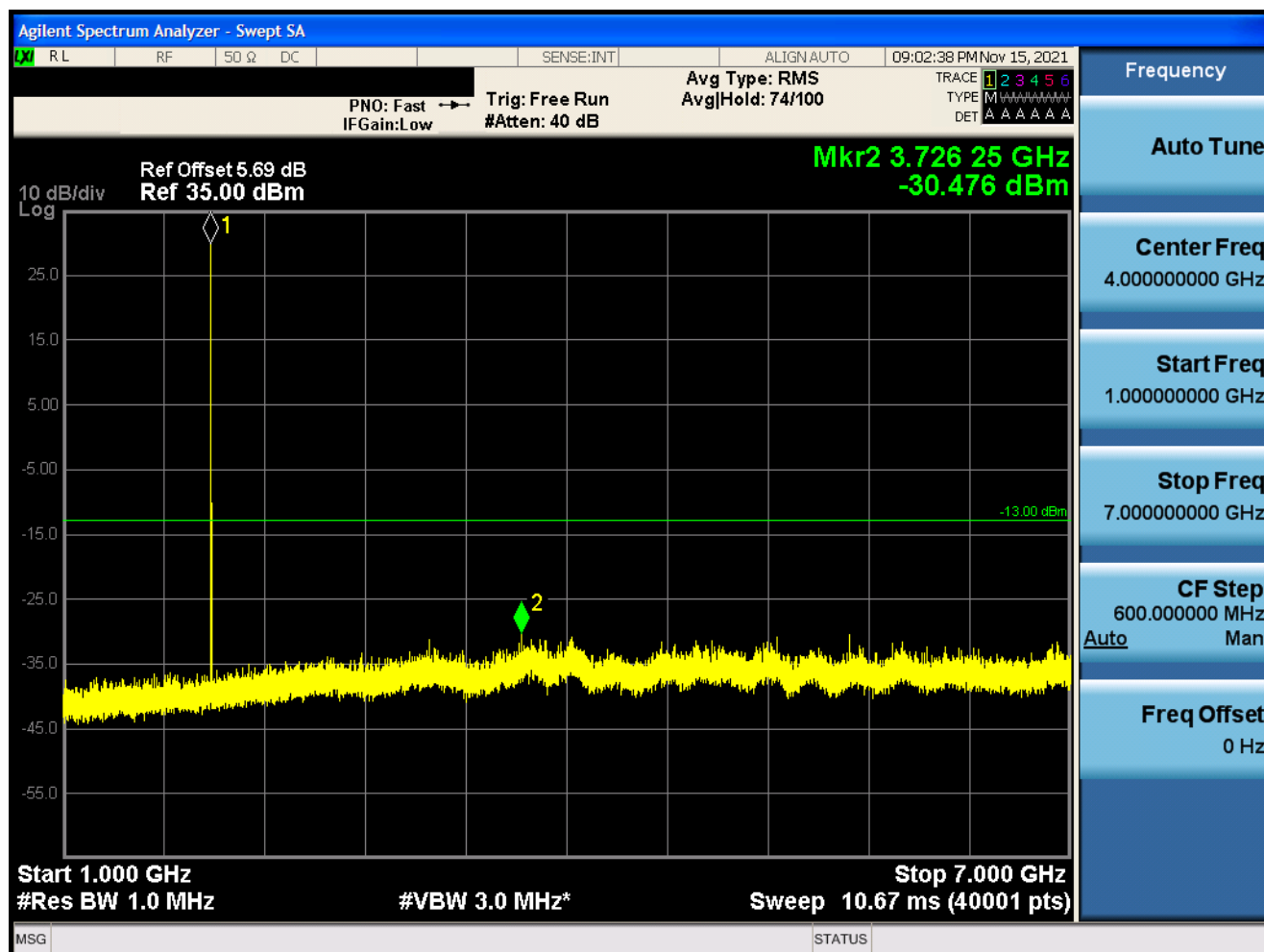


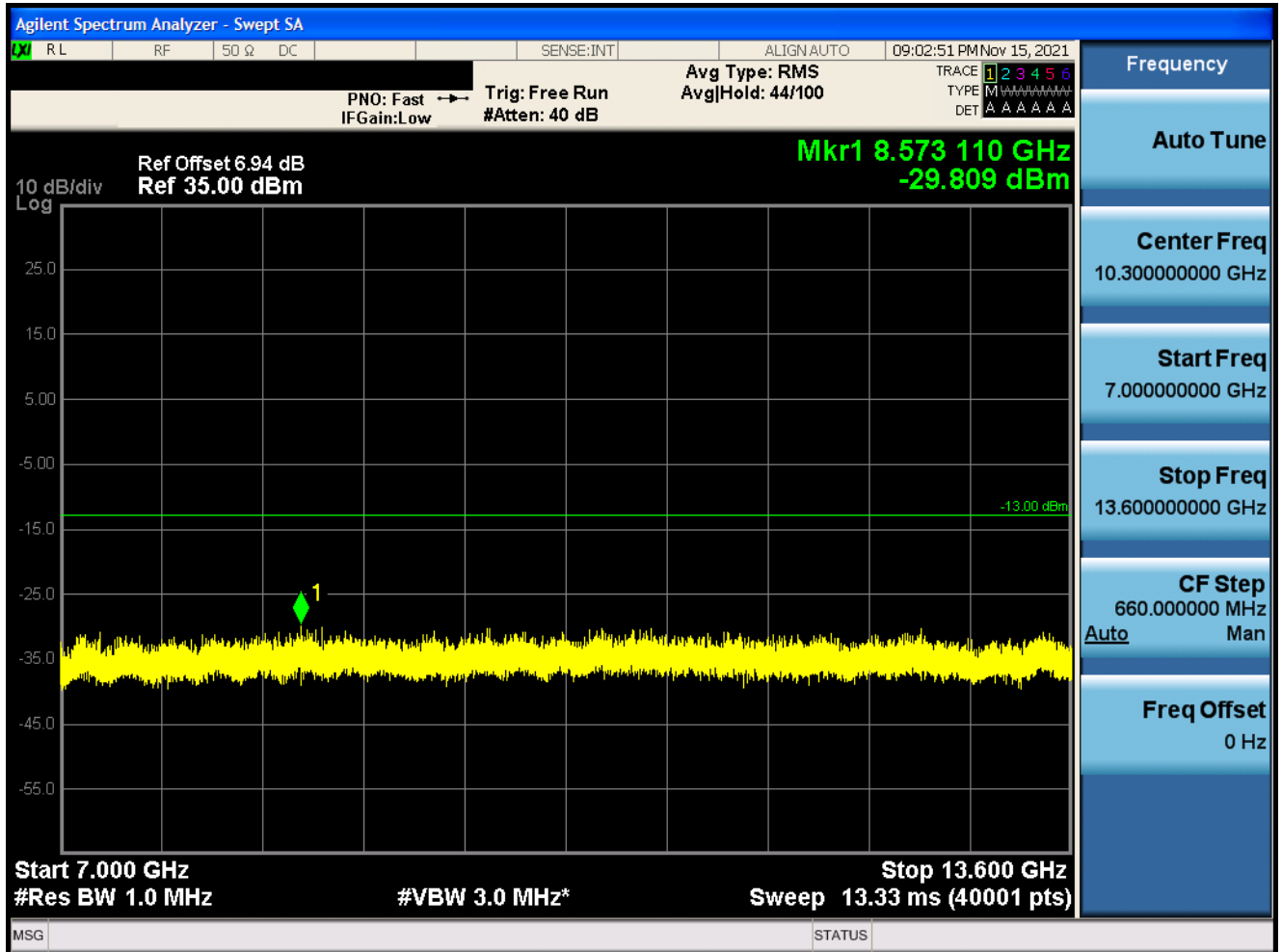
1.2.1.2 Test Channel=MCH

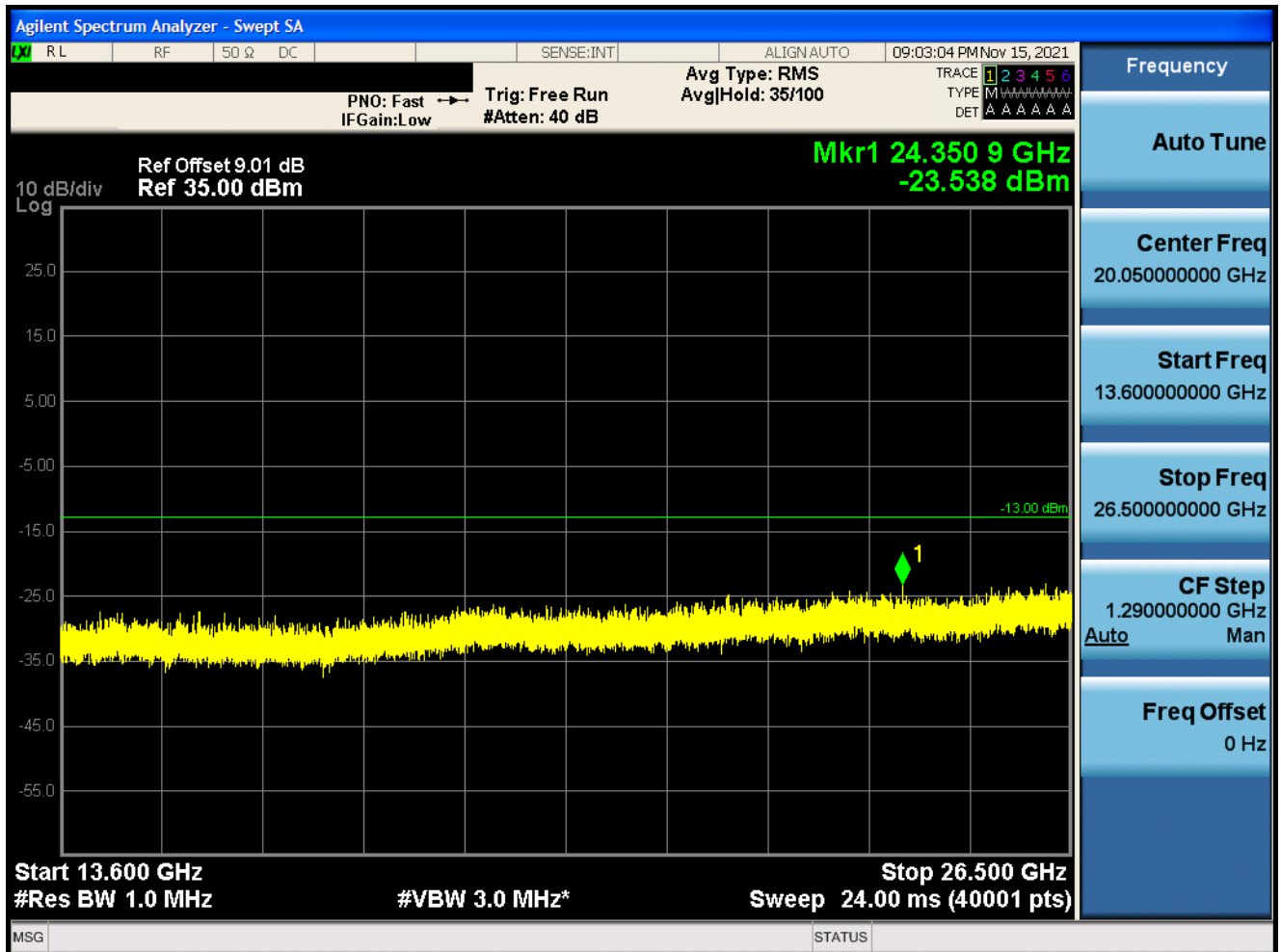




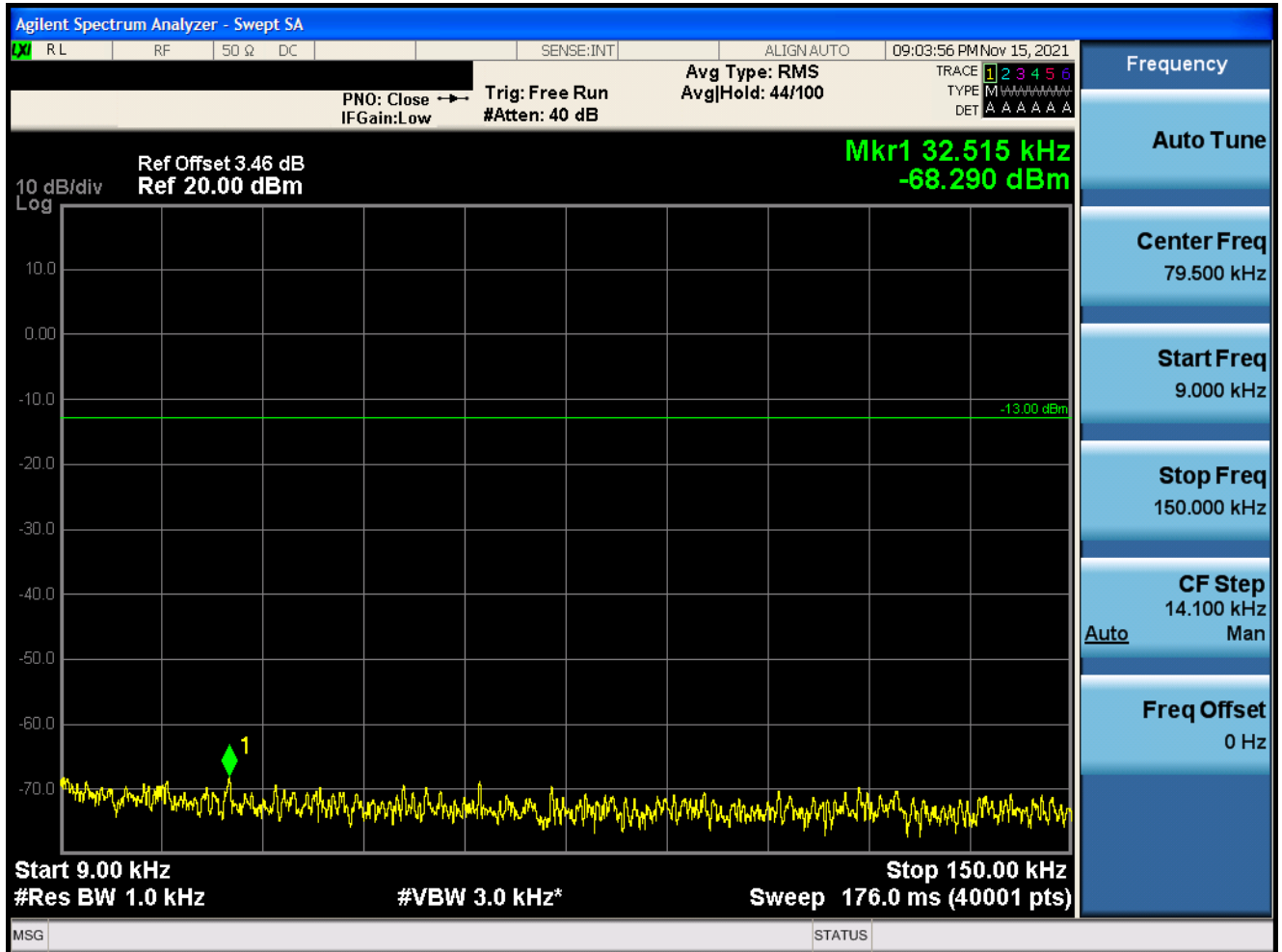


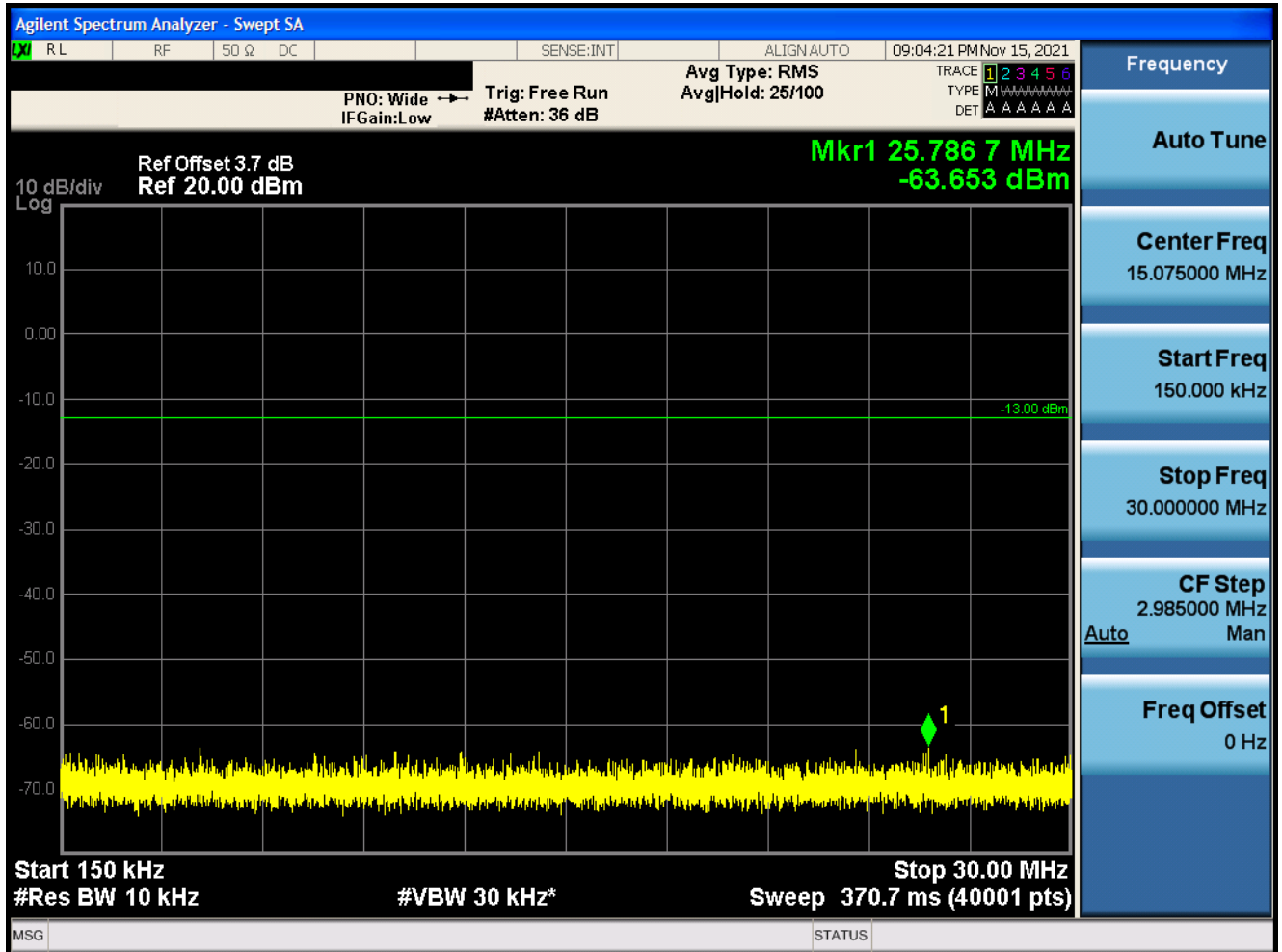


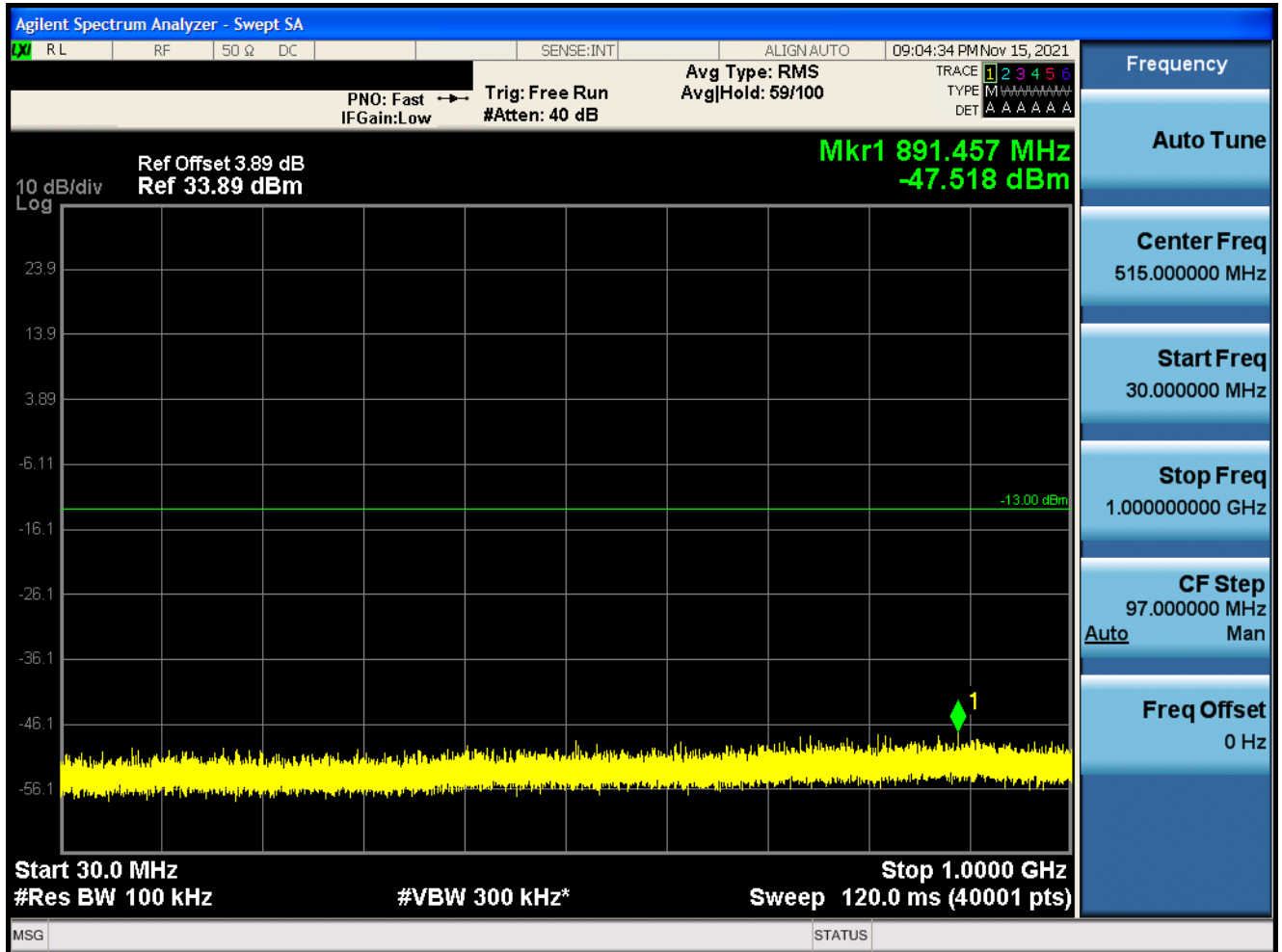


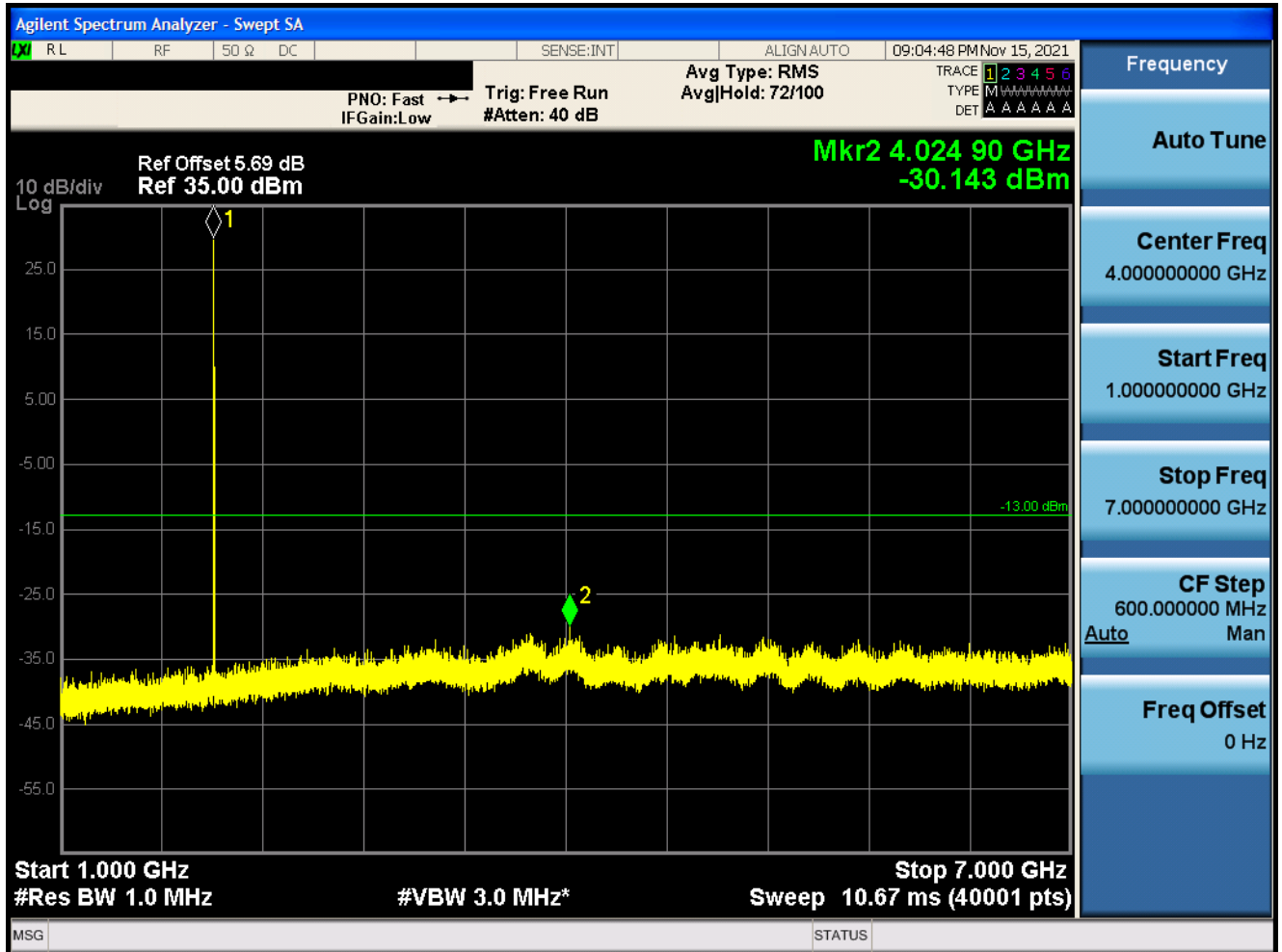


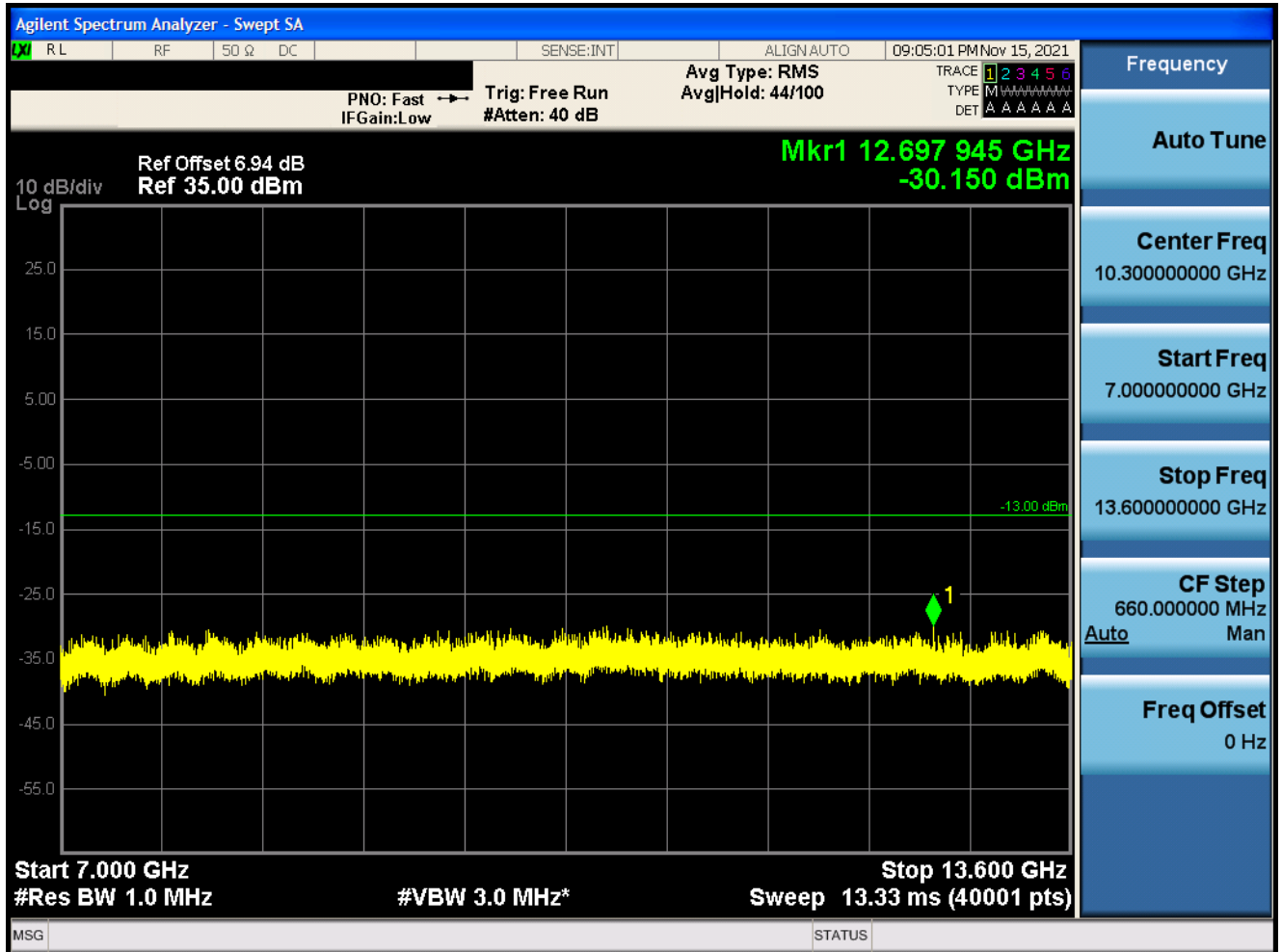
1.2.1.3 Test Channel=HCH

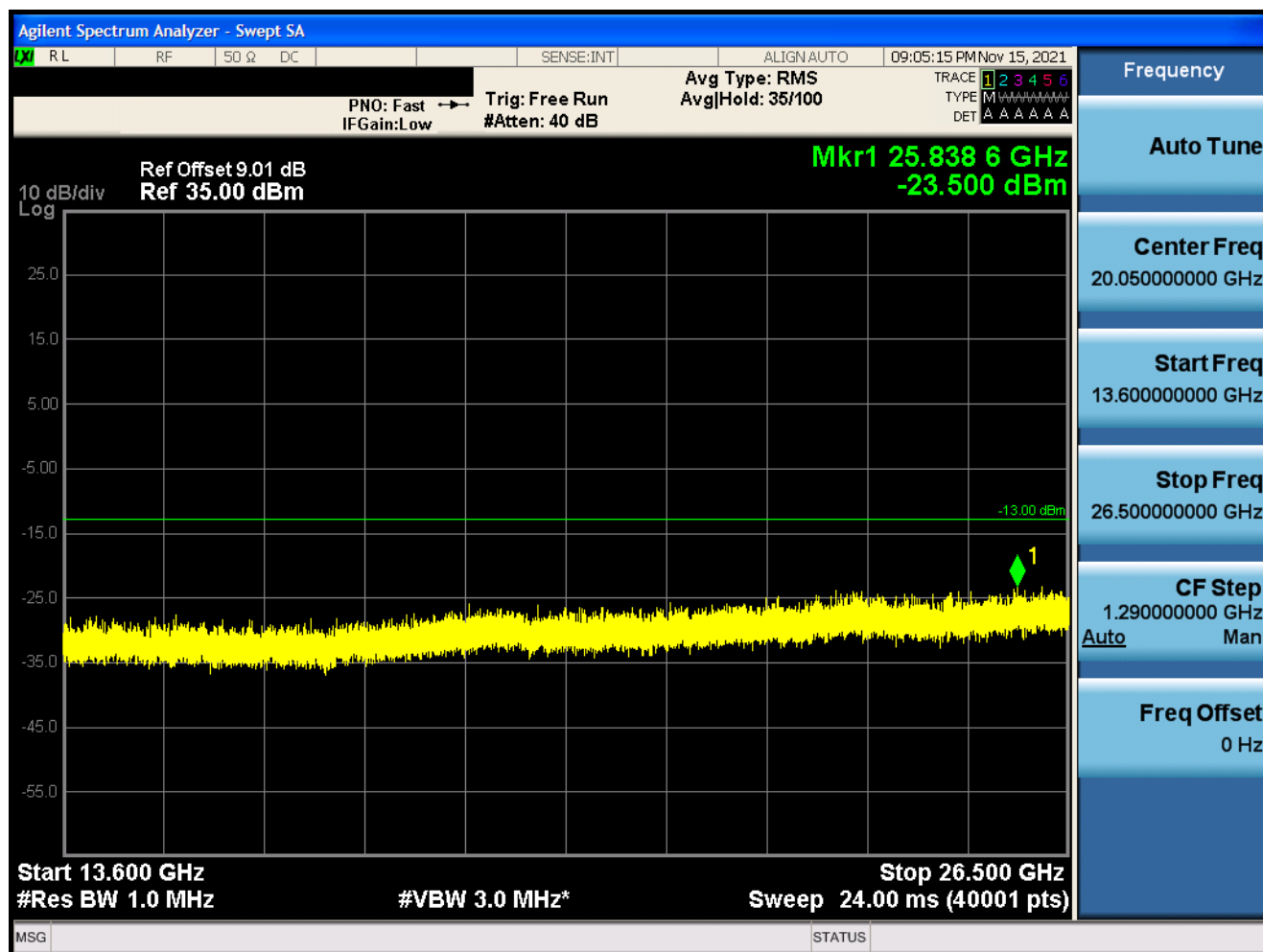






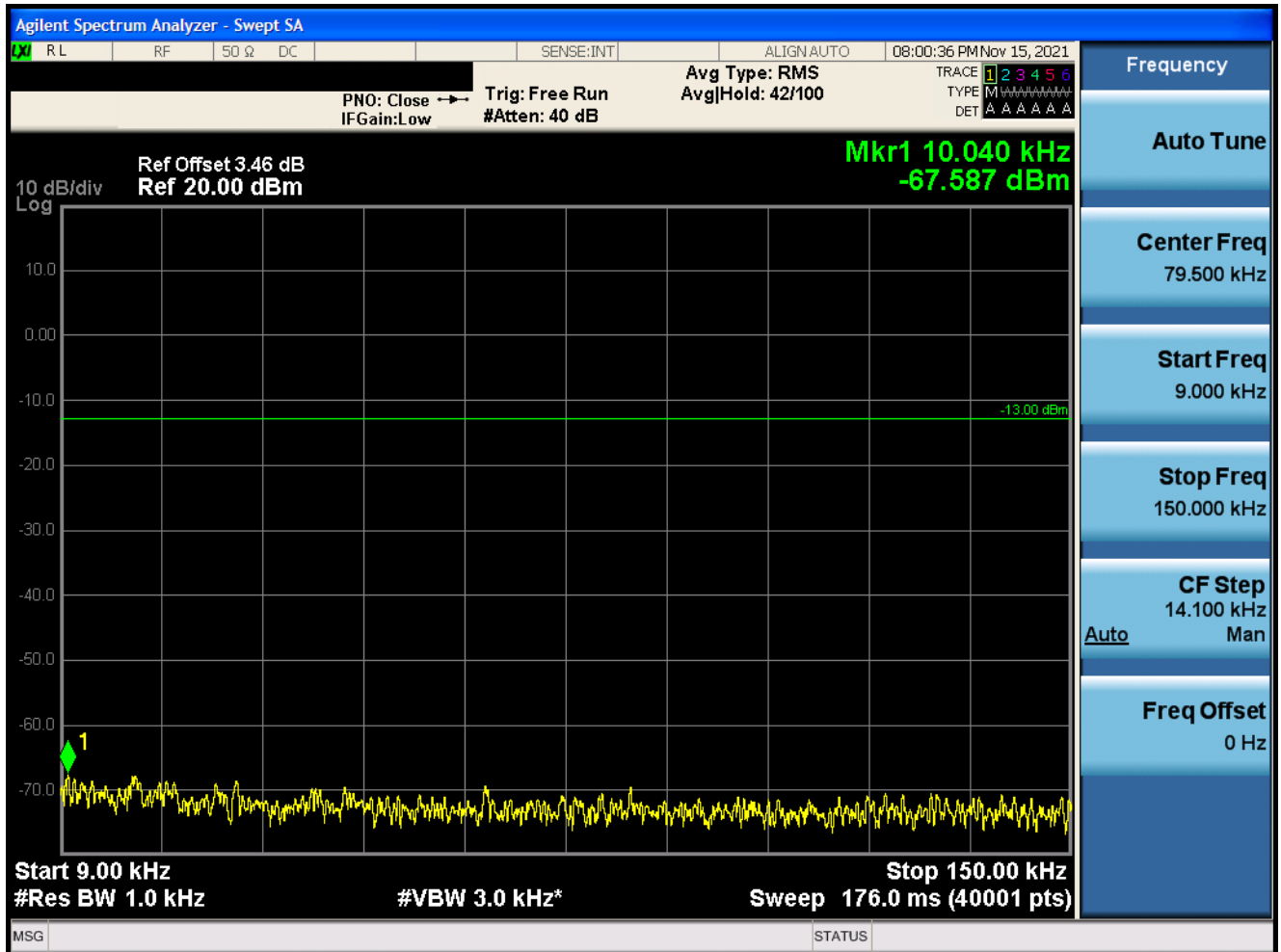


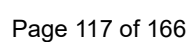


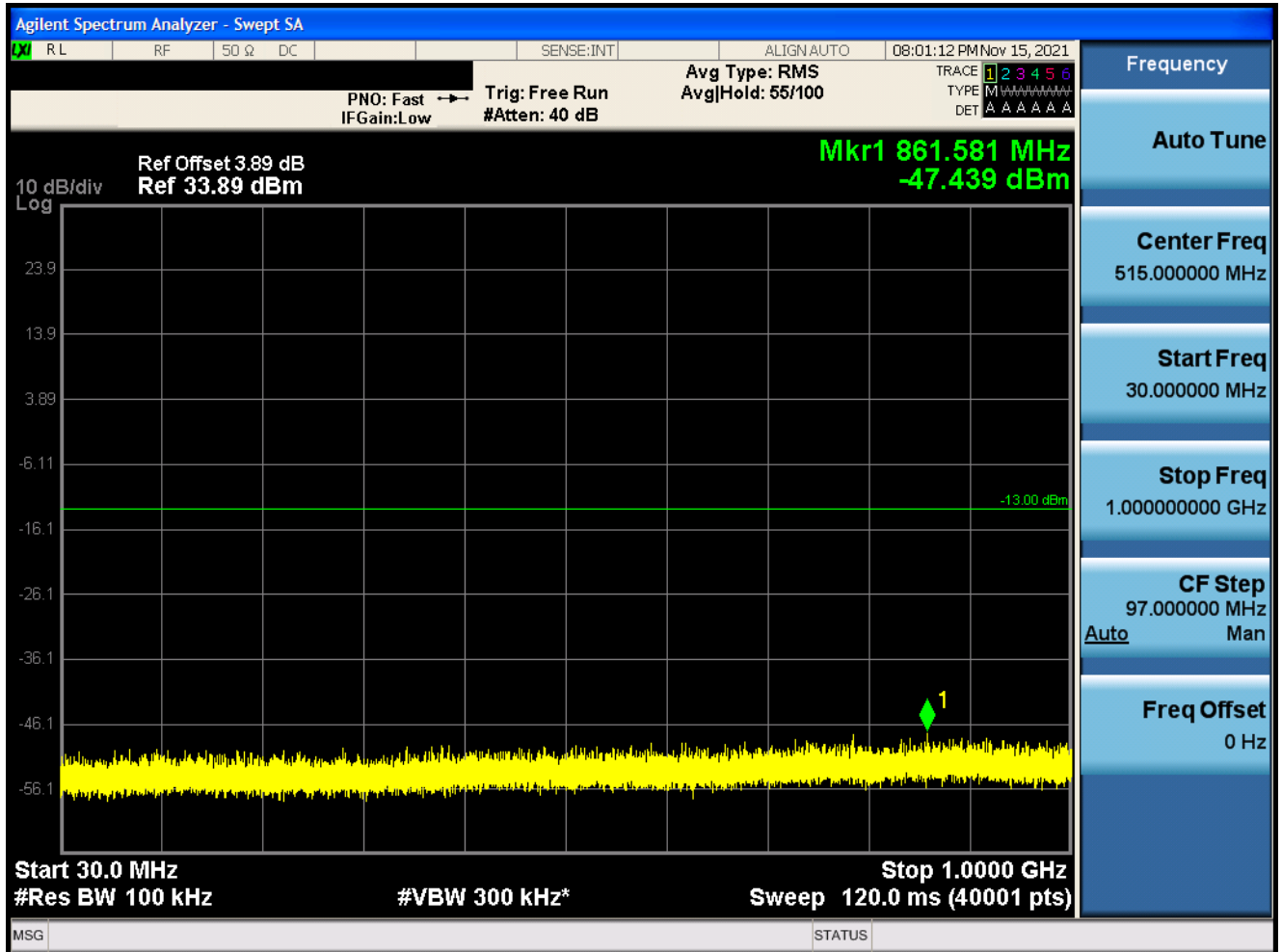


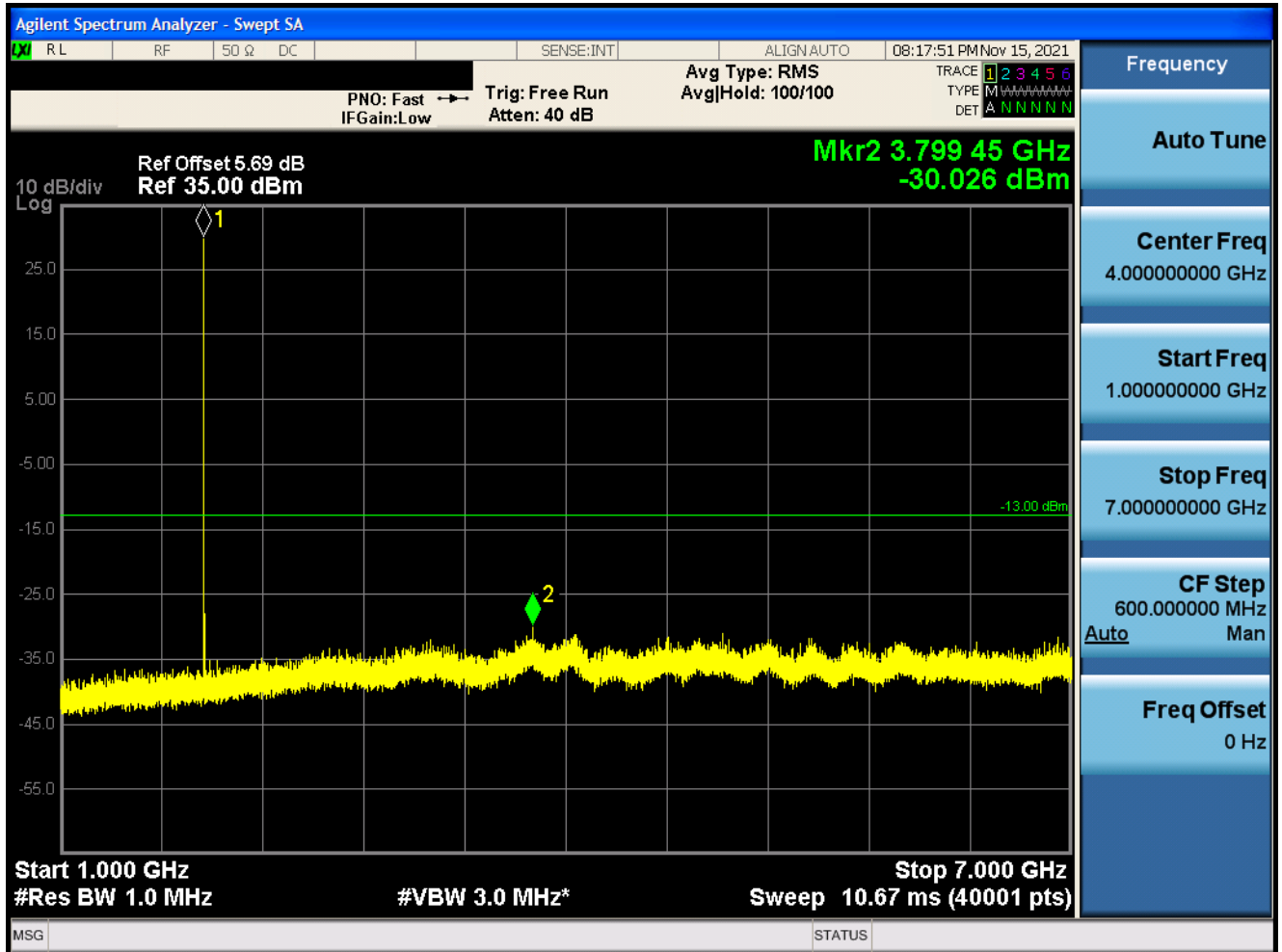
1.2.2 Test Mode=GSM/TM2

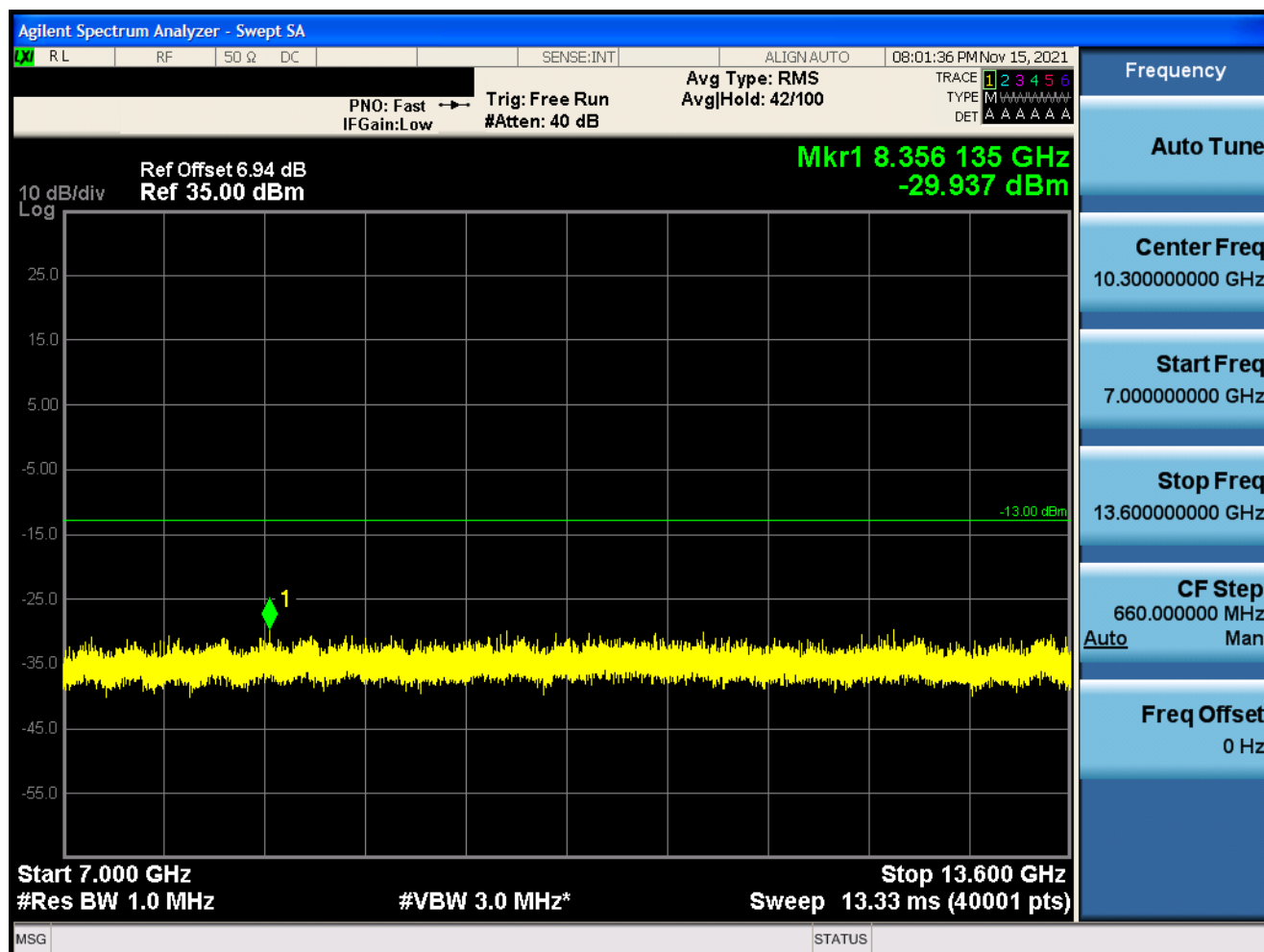
1.2.2.1 Test Channel=LCH

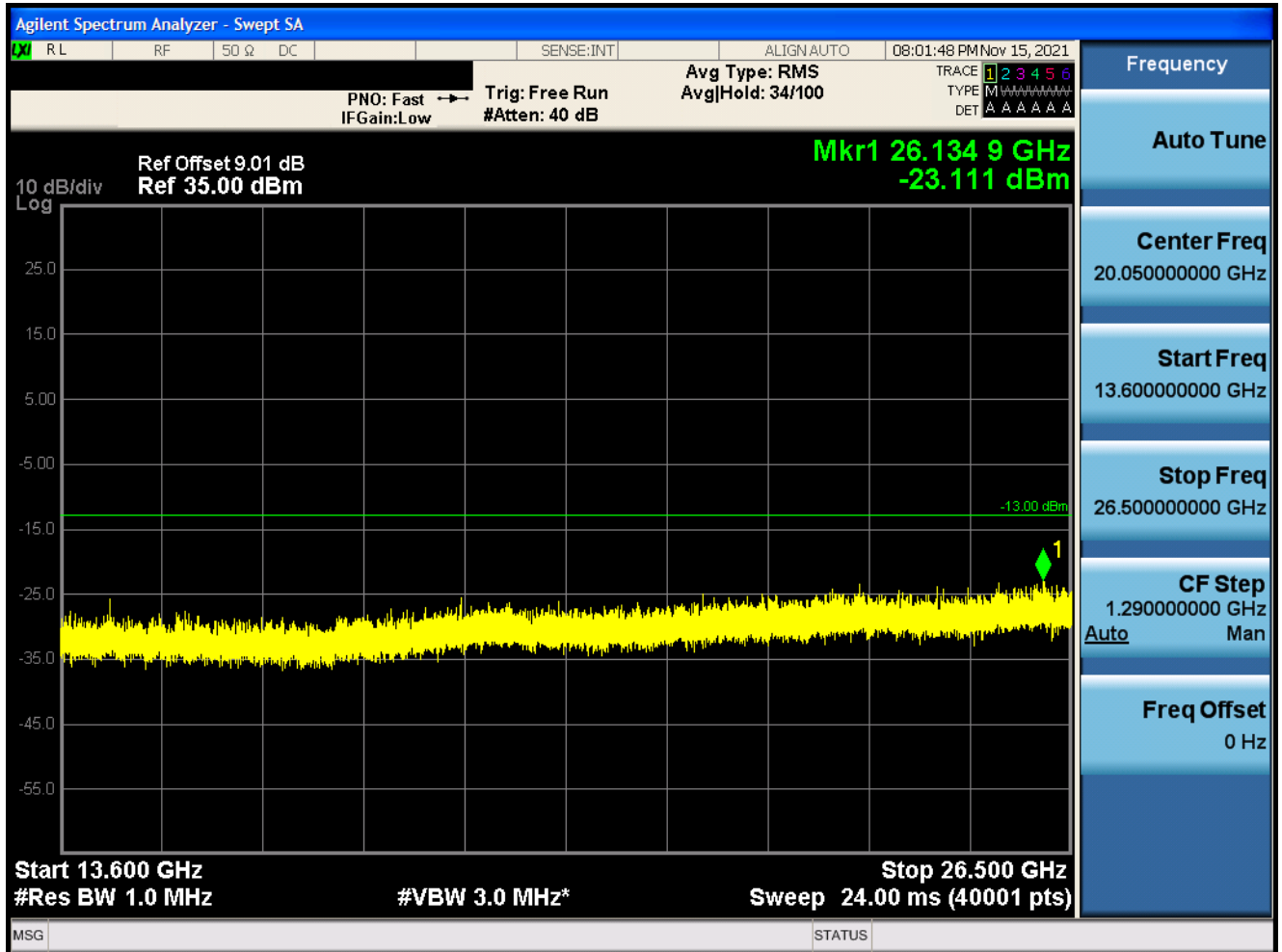




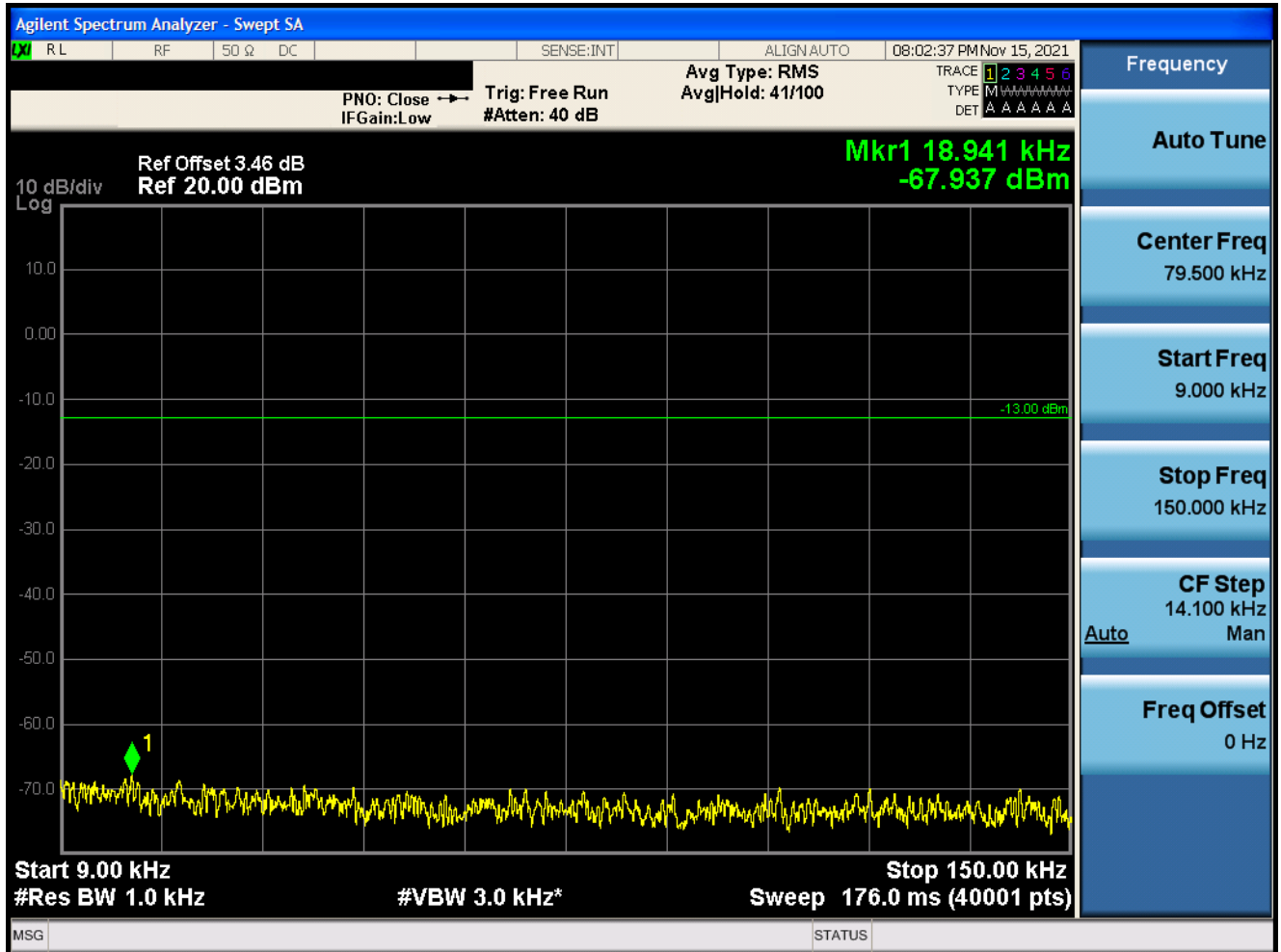


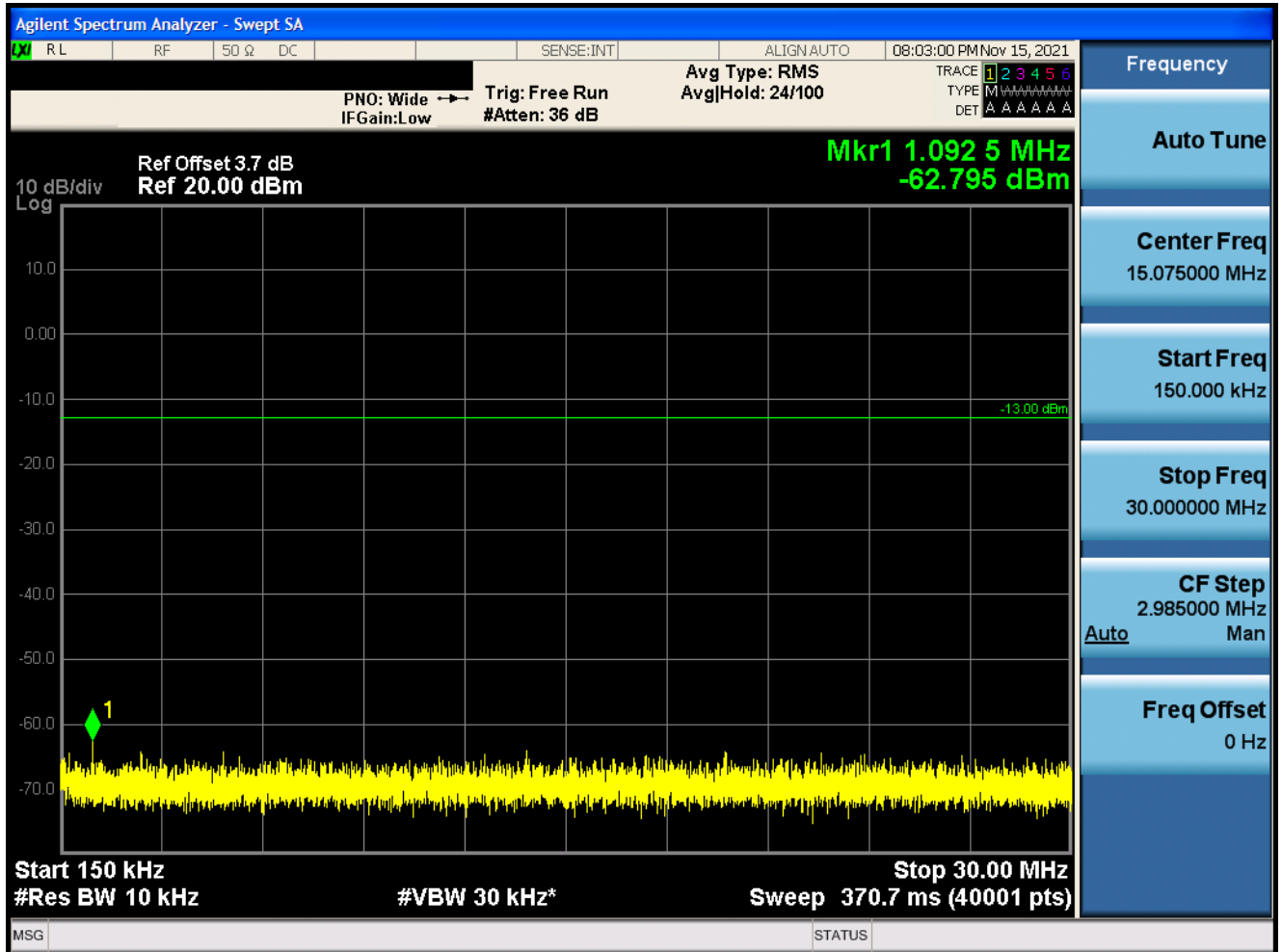


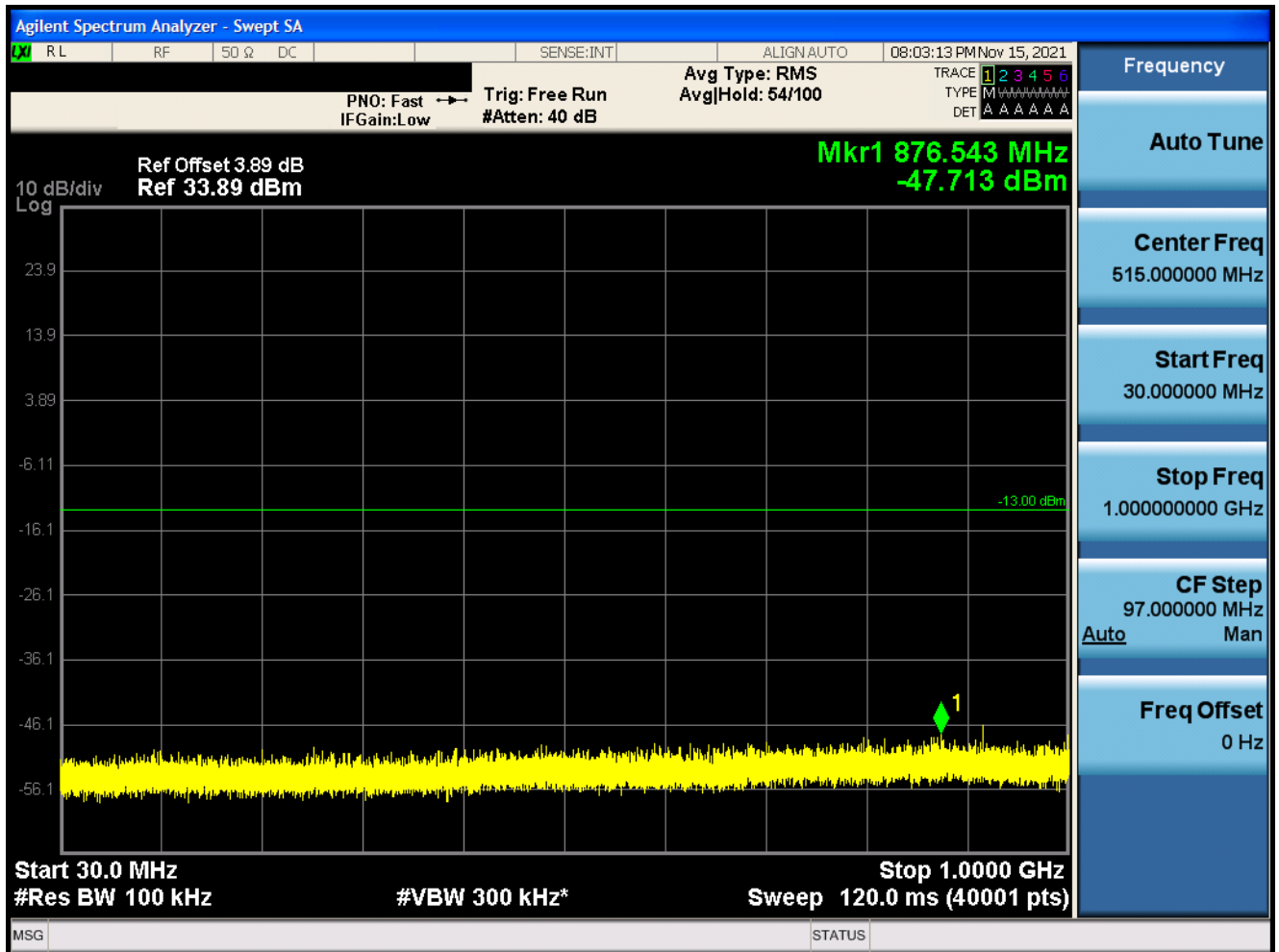


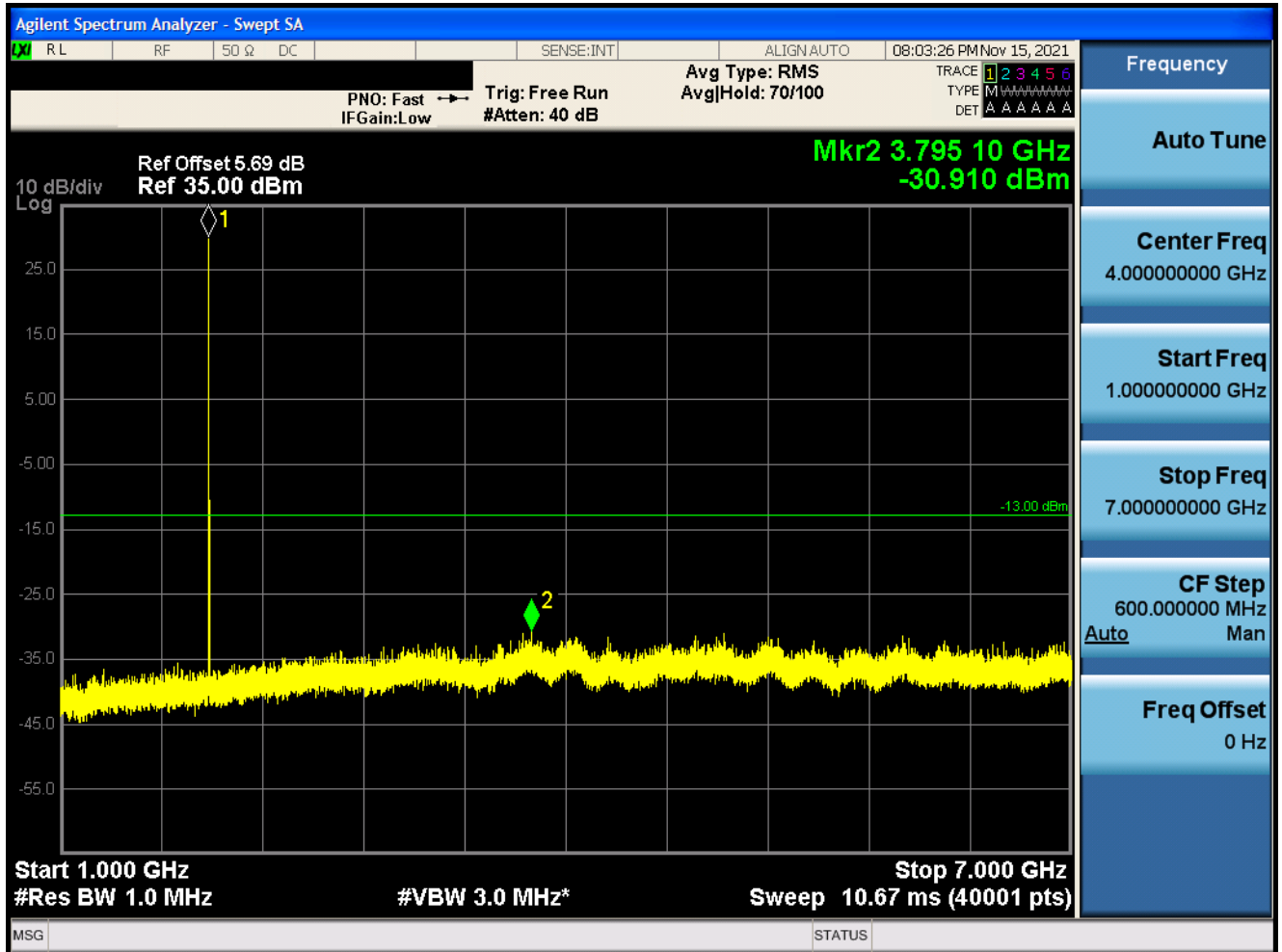


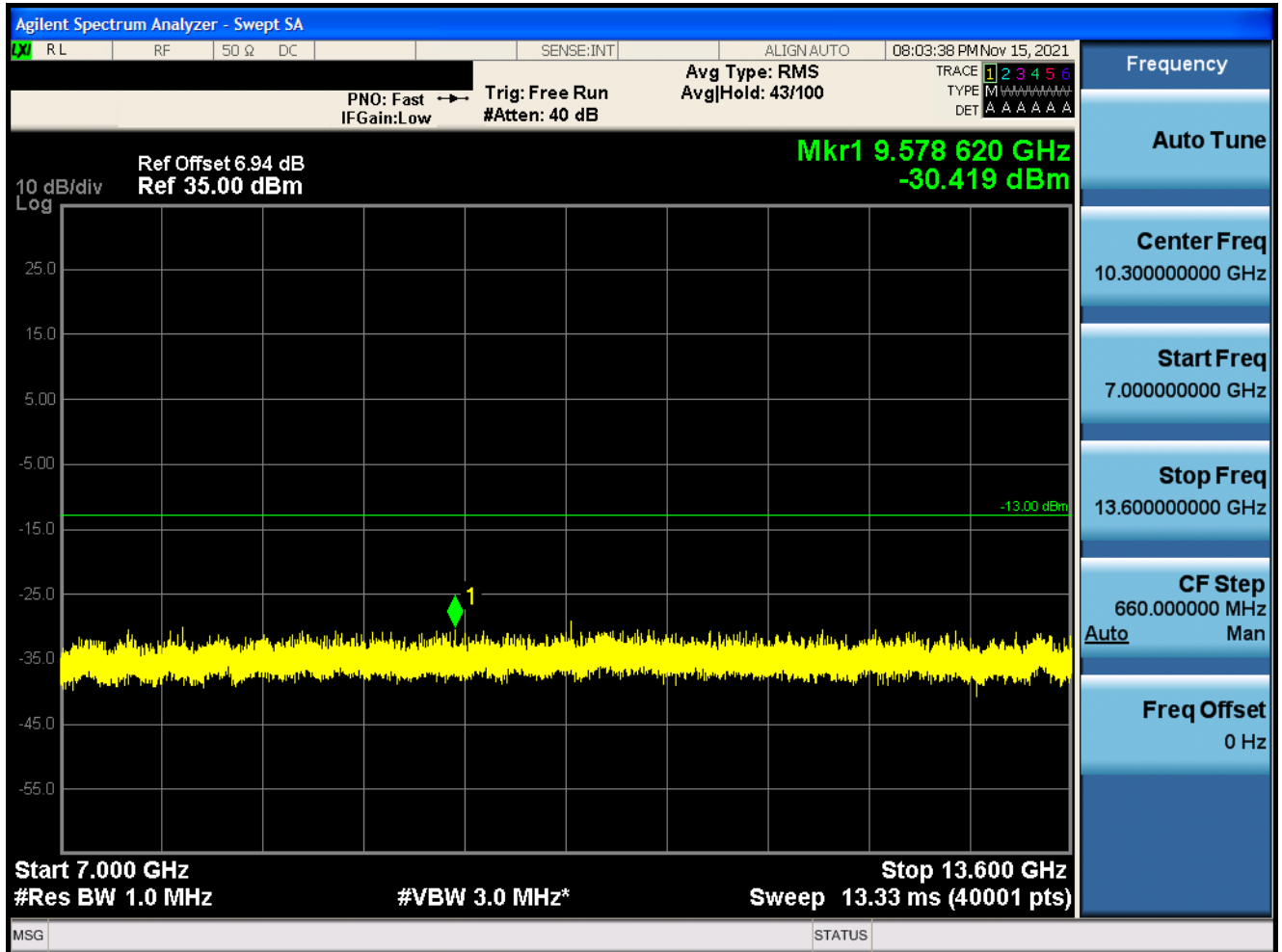
1.2.2.2 Test Channel=MCH

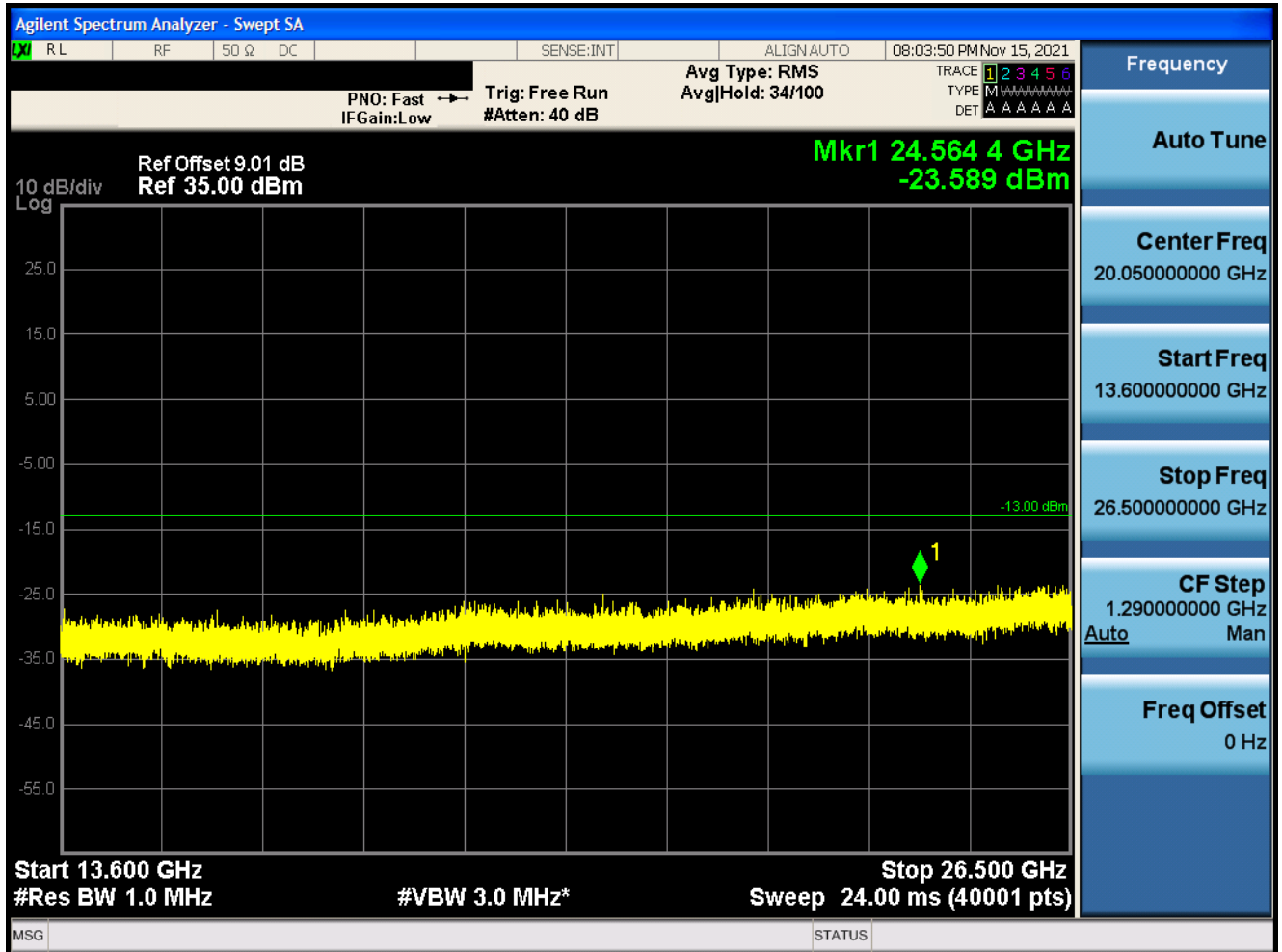




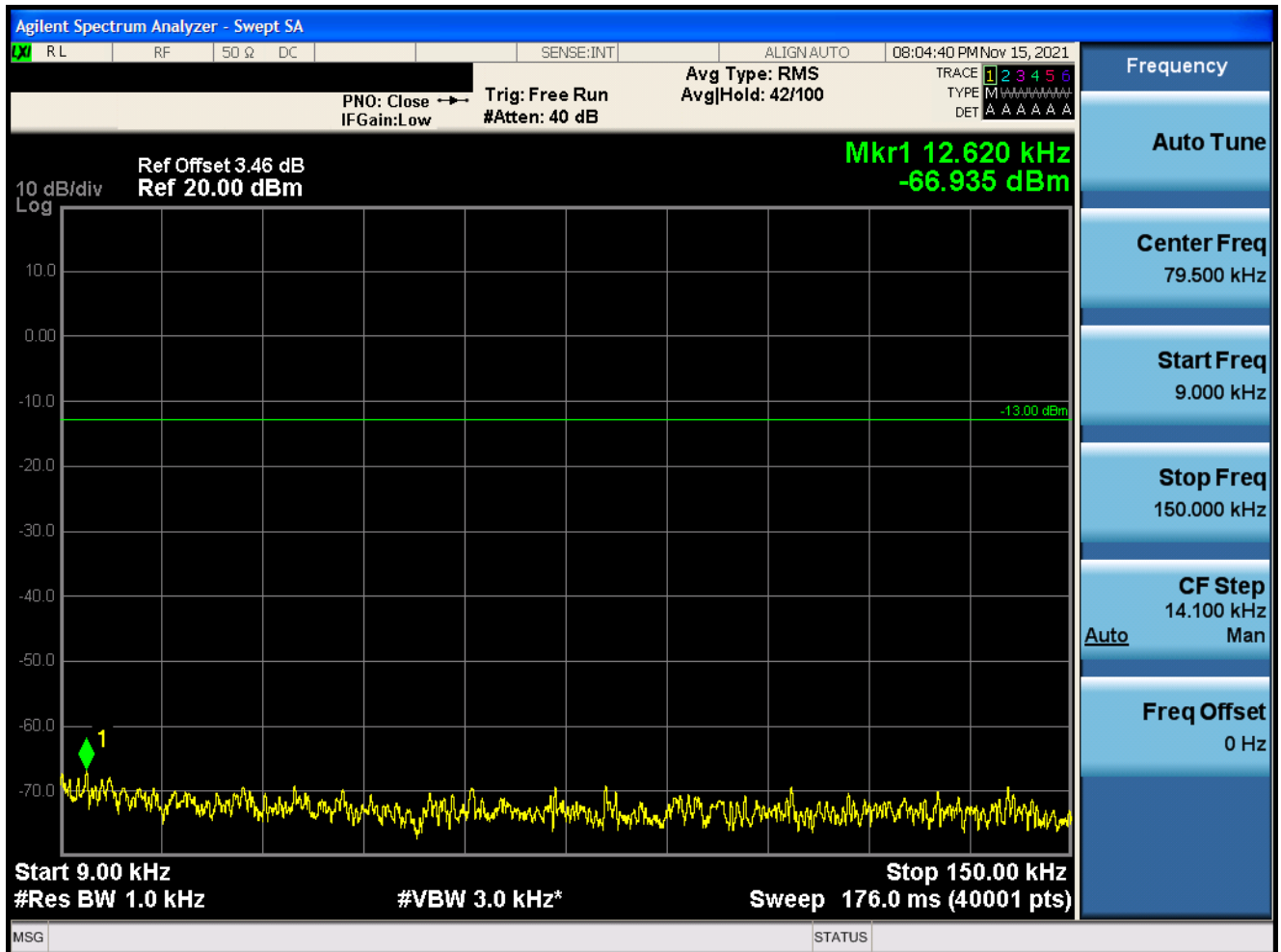


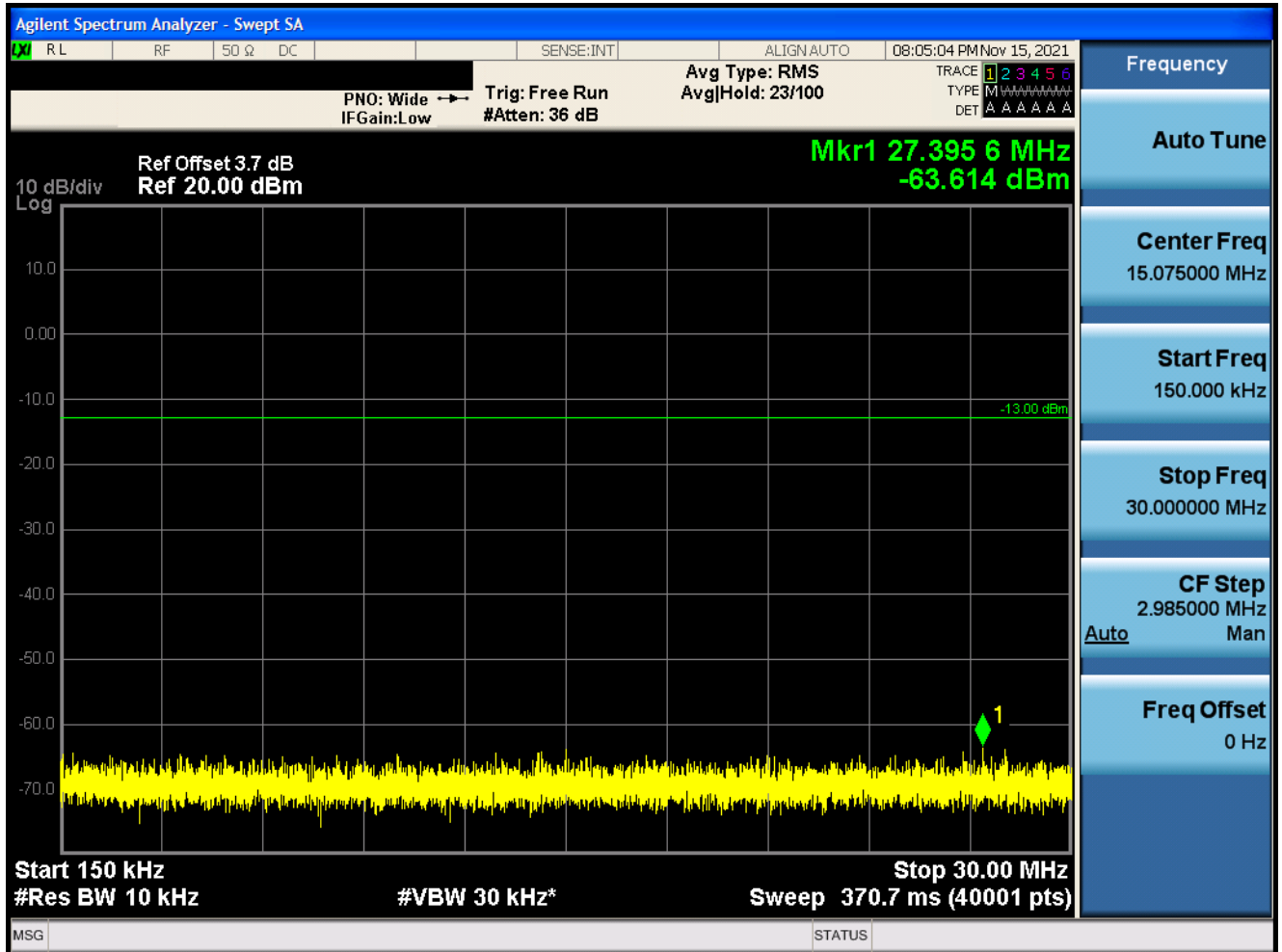


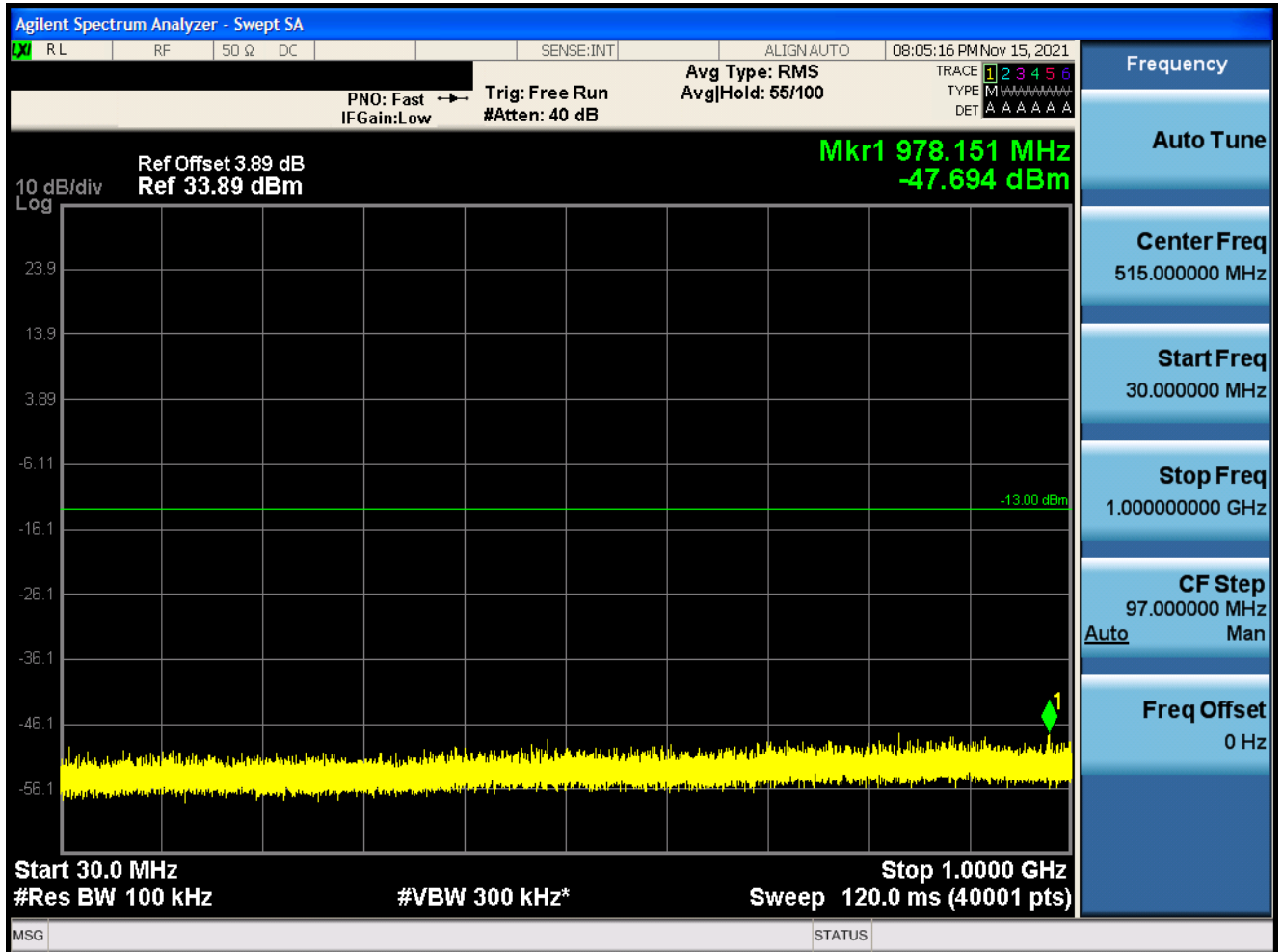


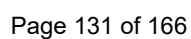


1.2.2.3 Test Channel=HCH

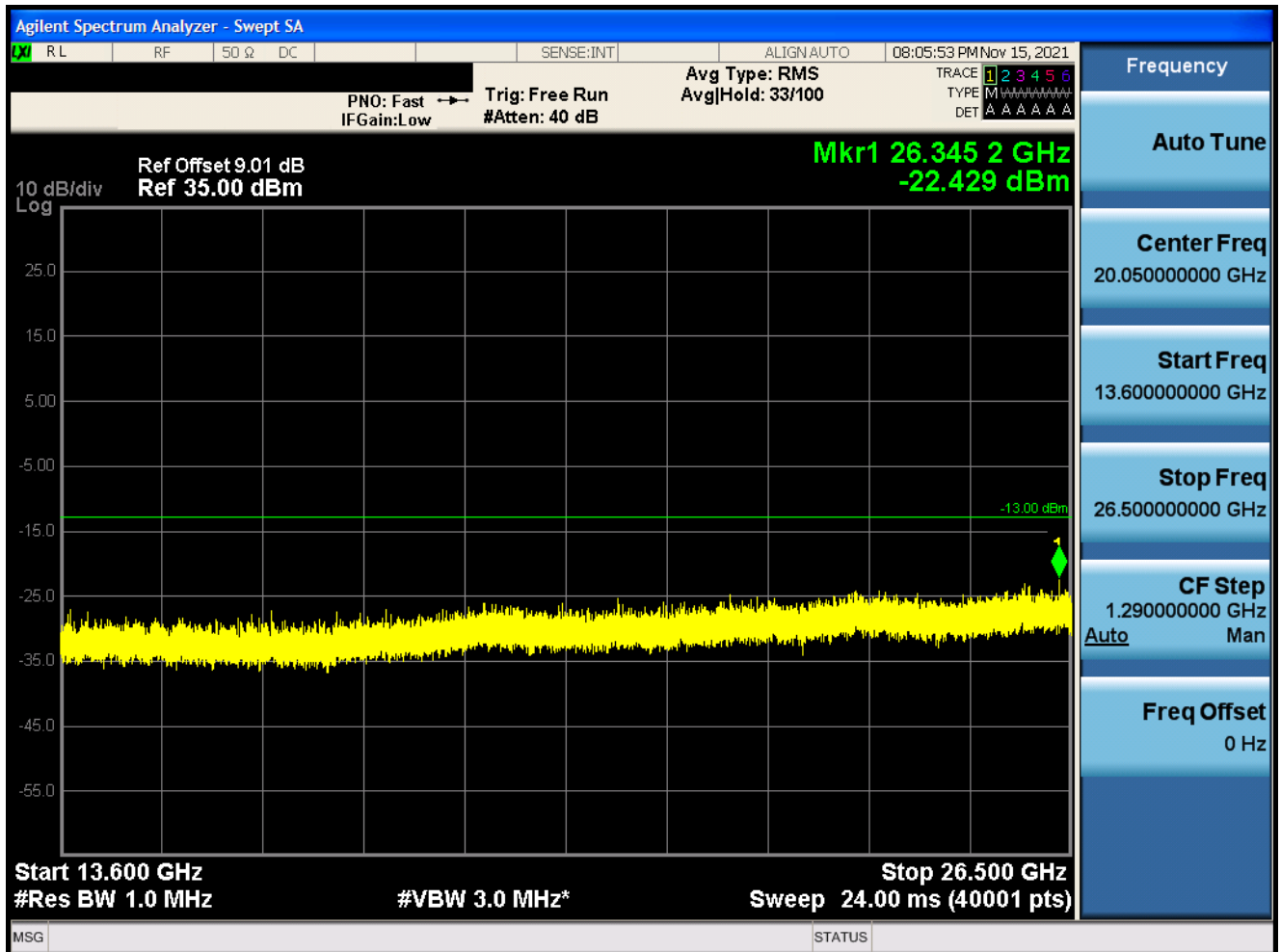






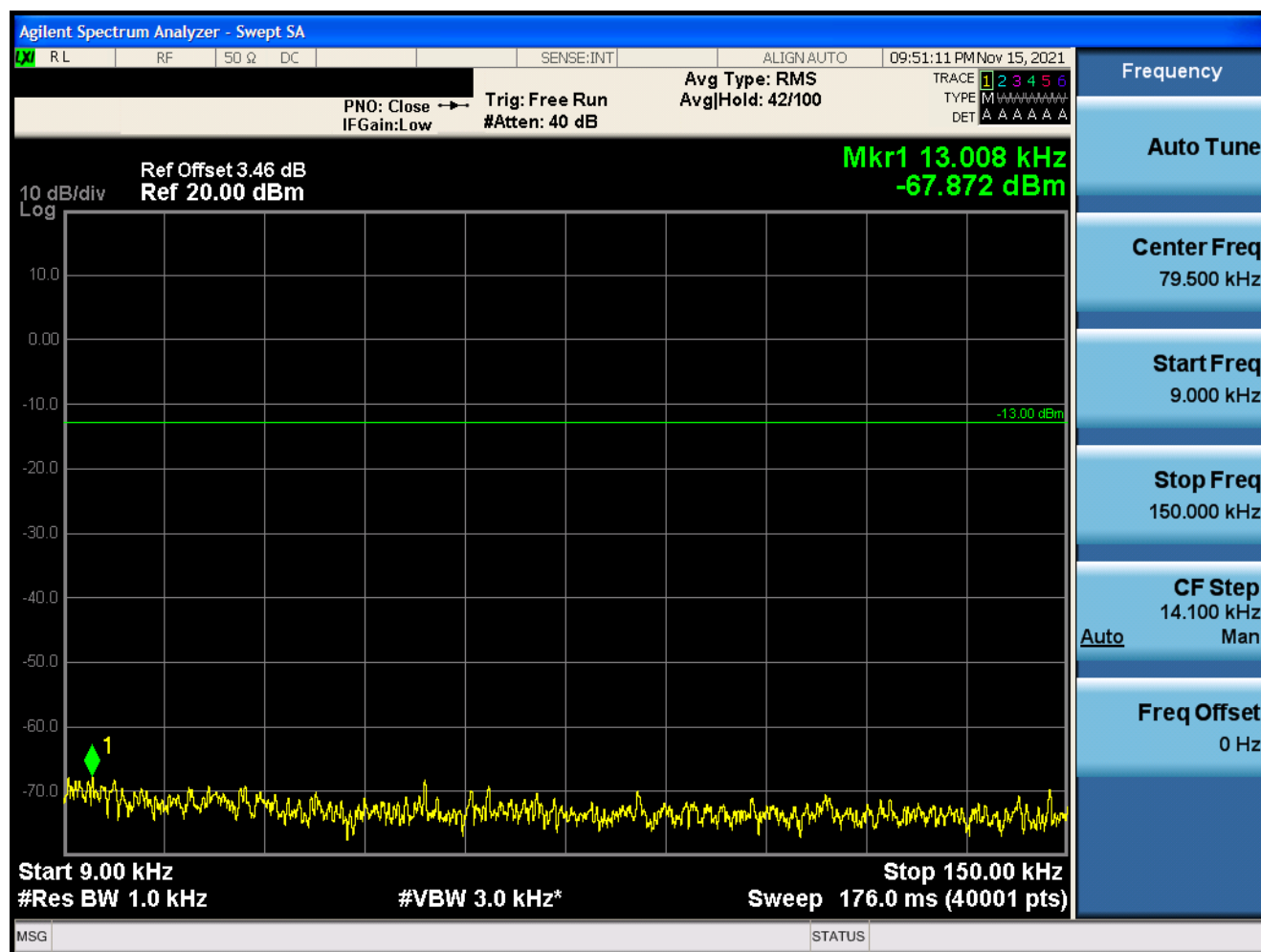


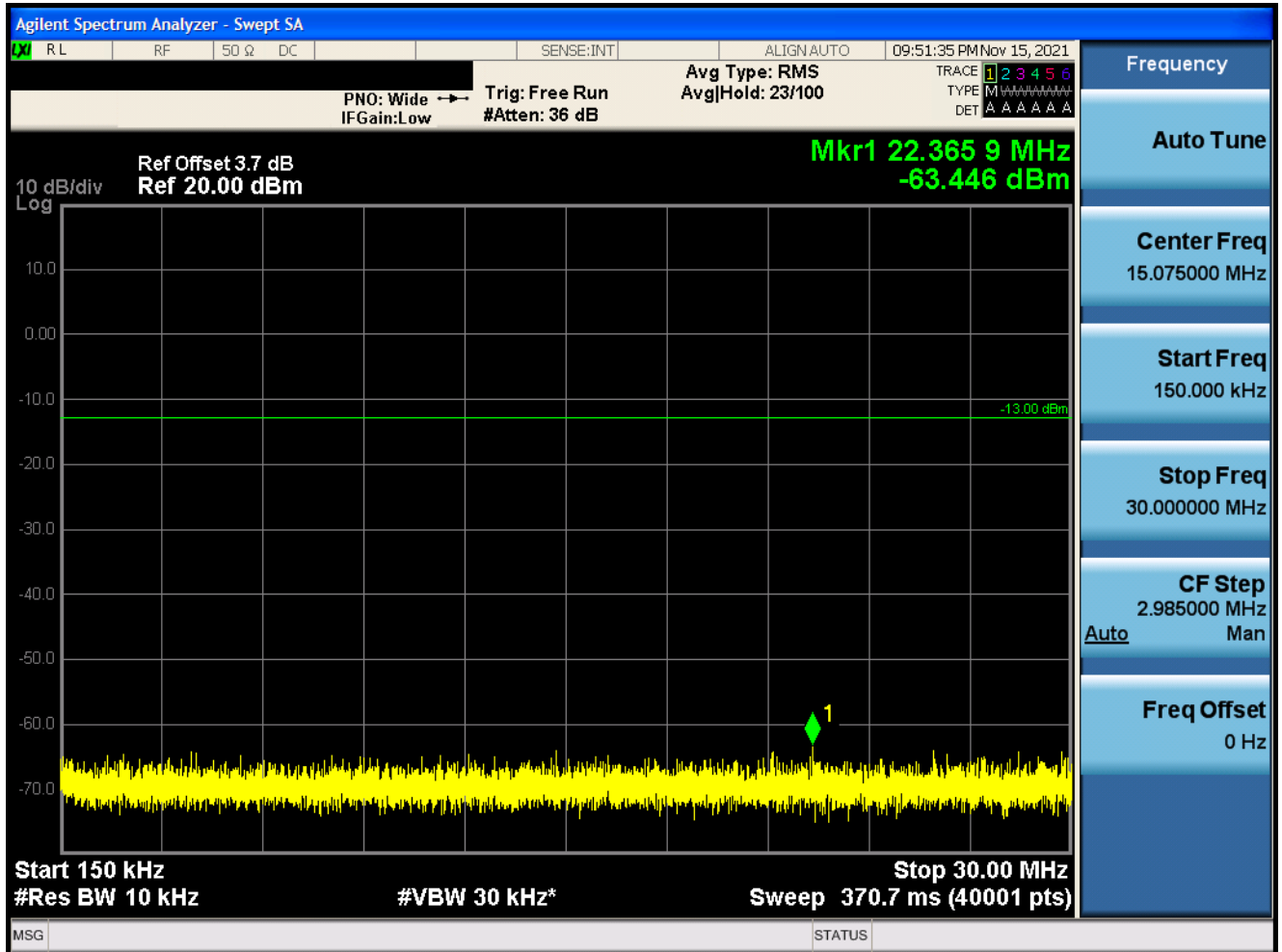


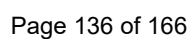


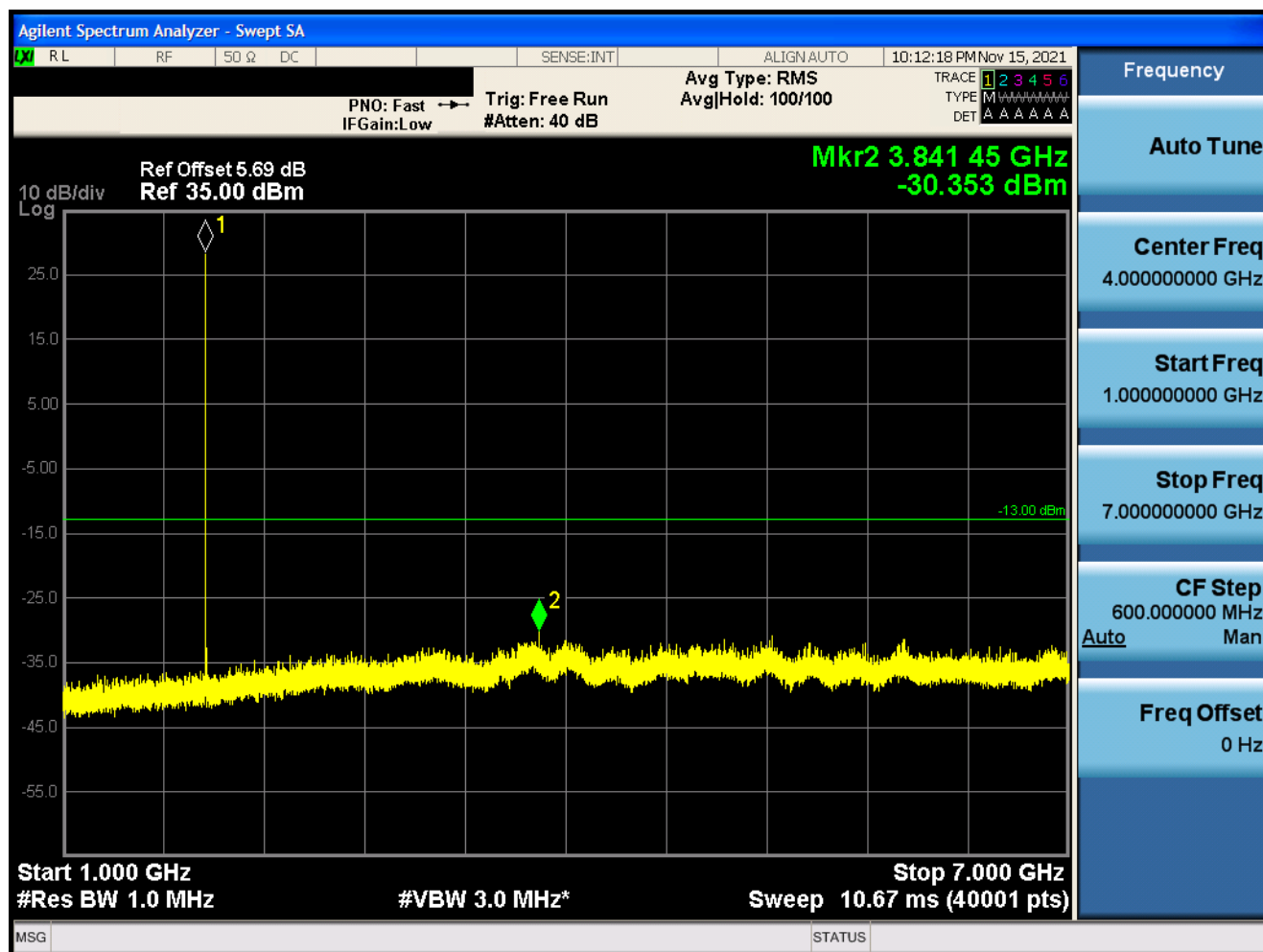
1.2.3 Test Mode=GSM/TM3

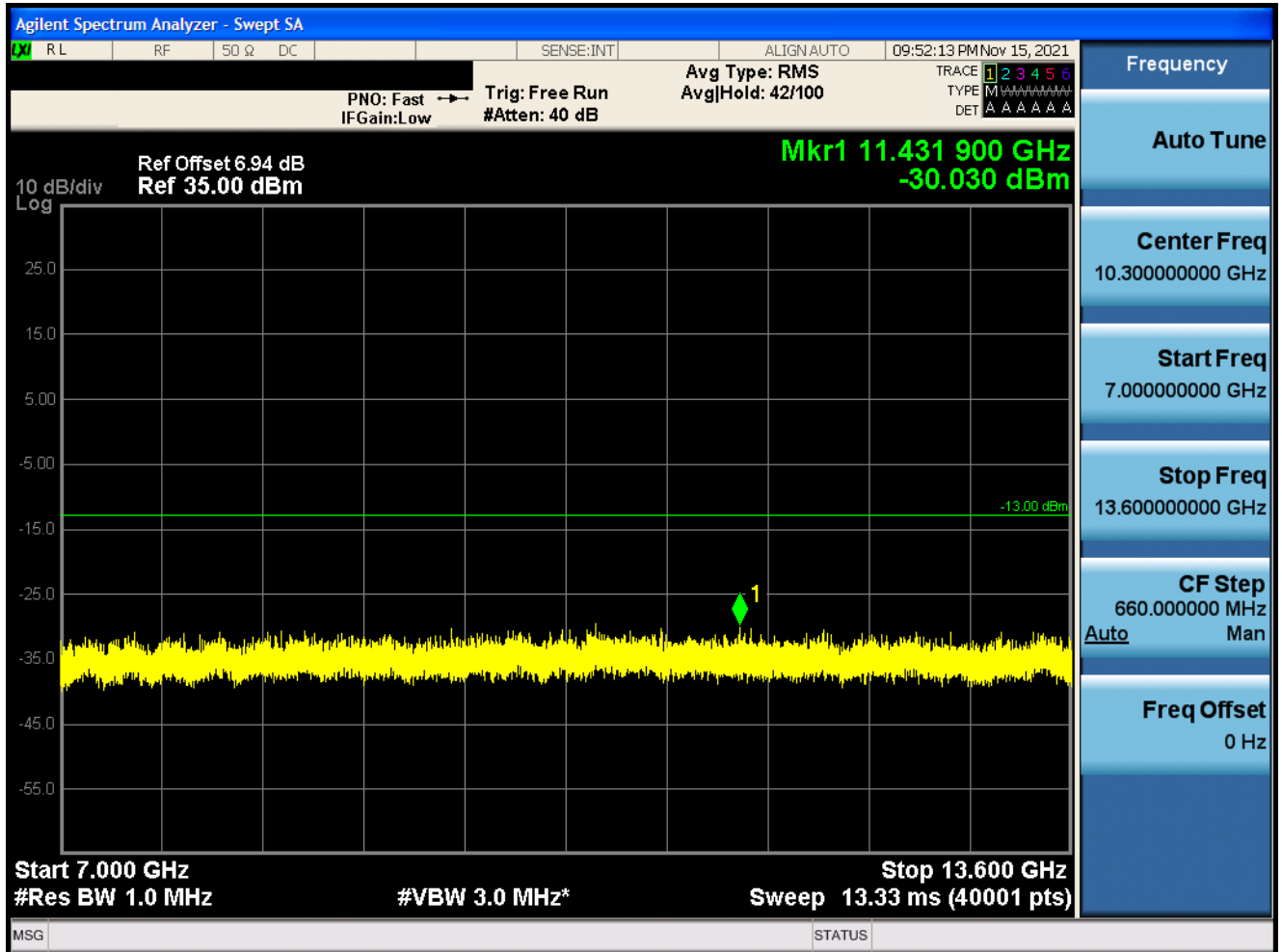
1.2.3.1 Test Channel=LCH

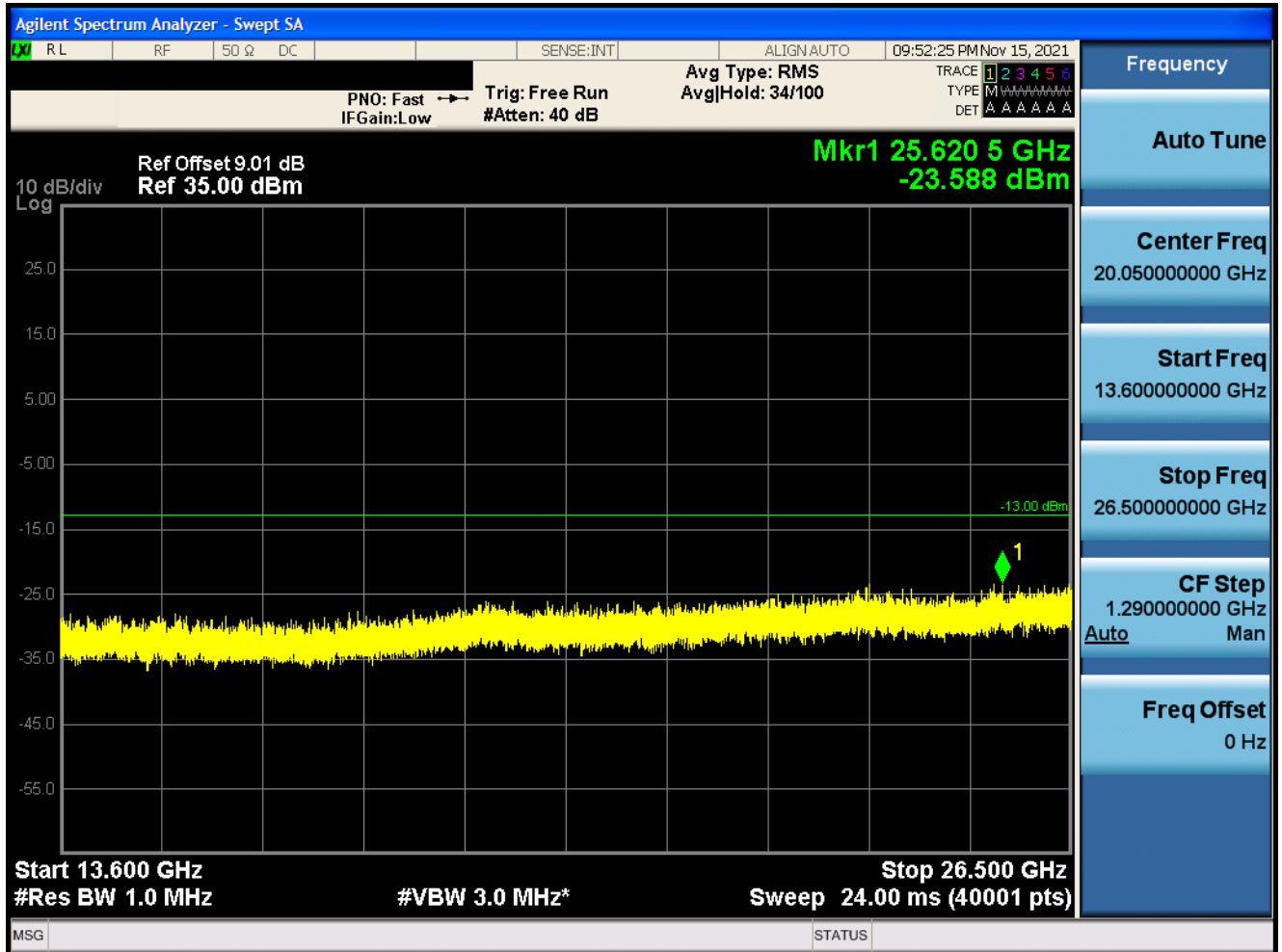




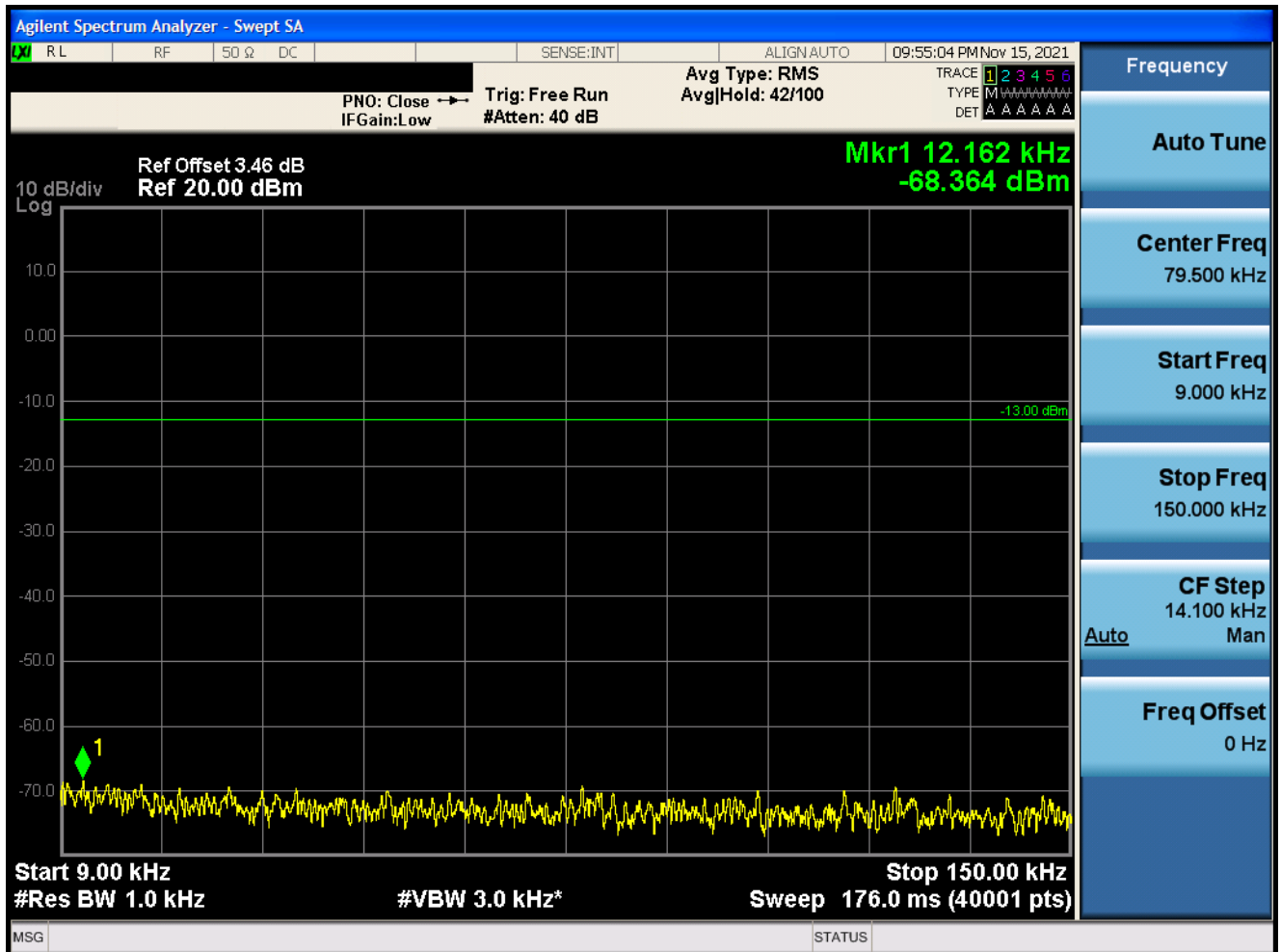


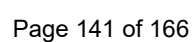


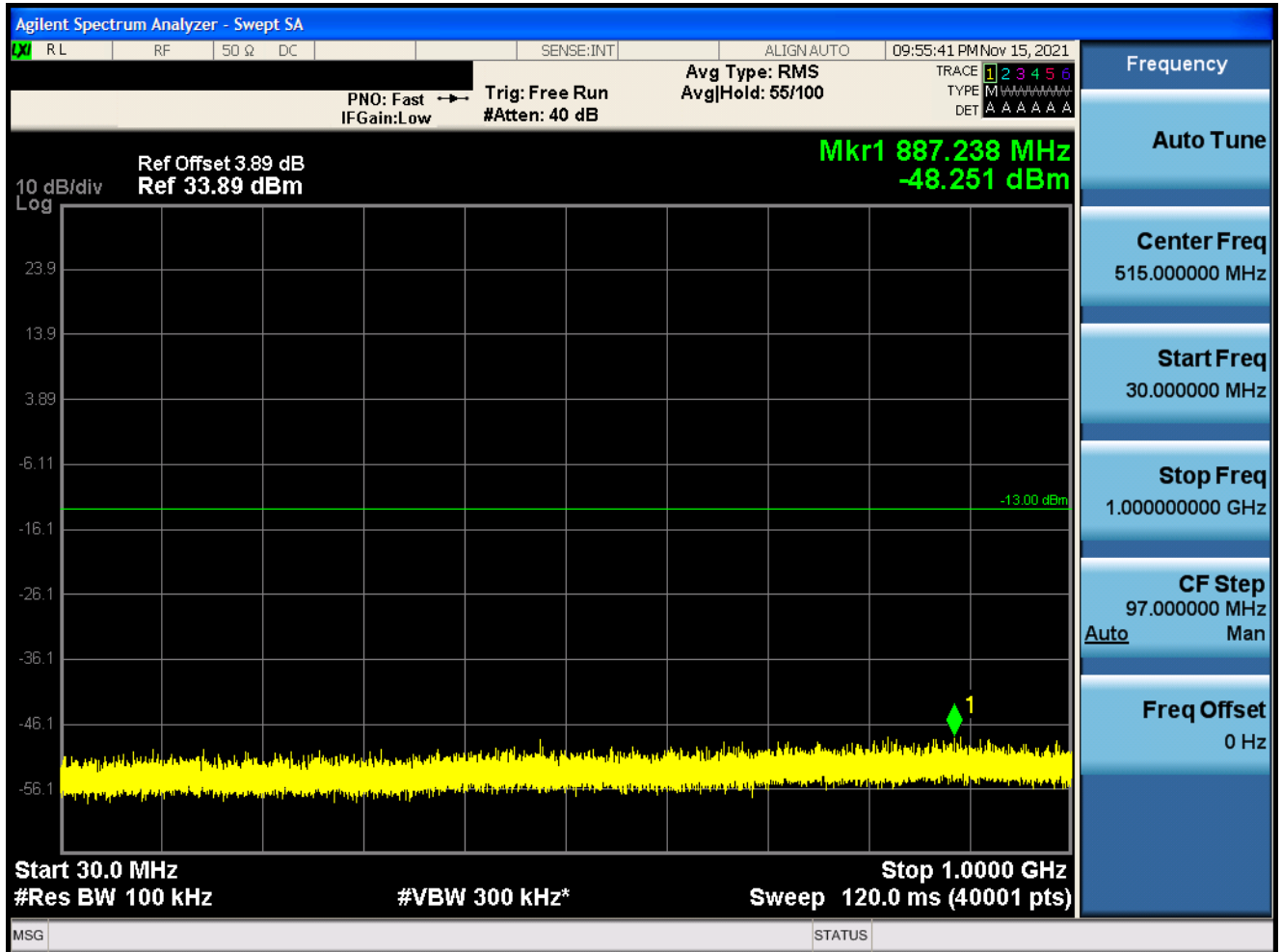


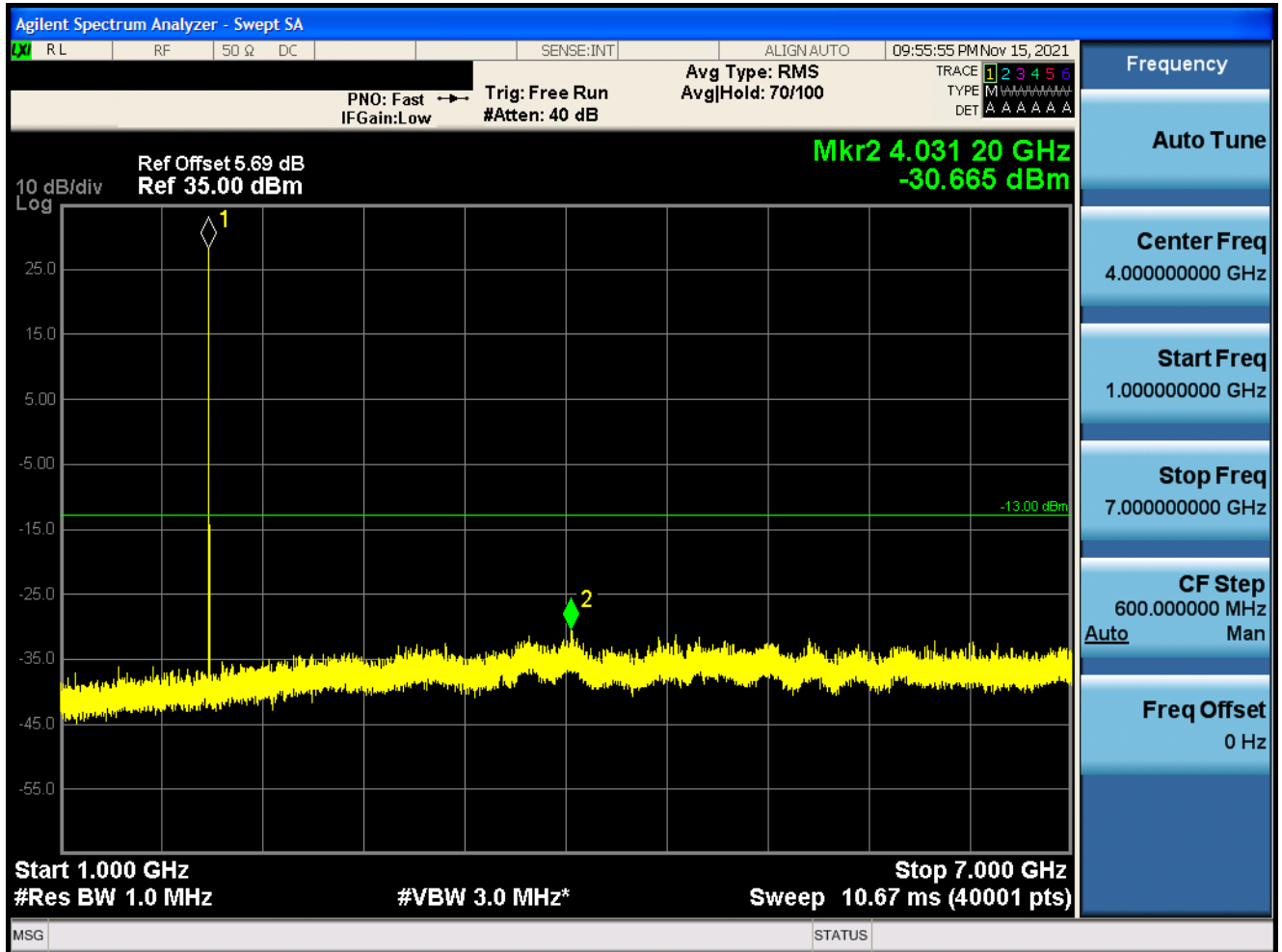


1.2.3.2 Test Channel=MCH

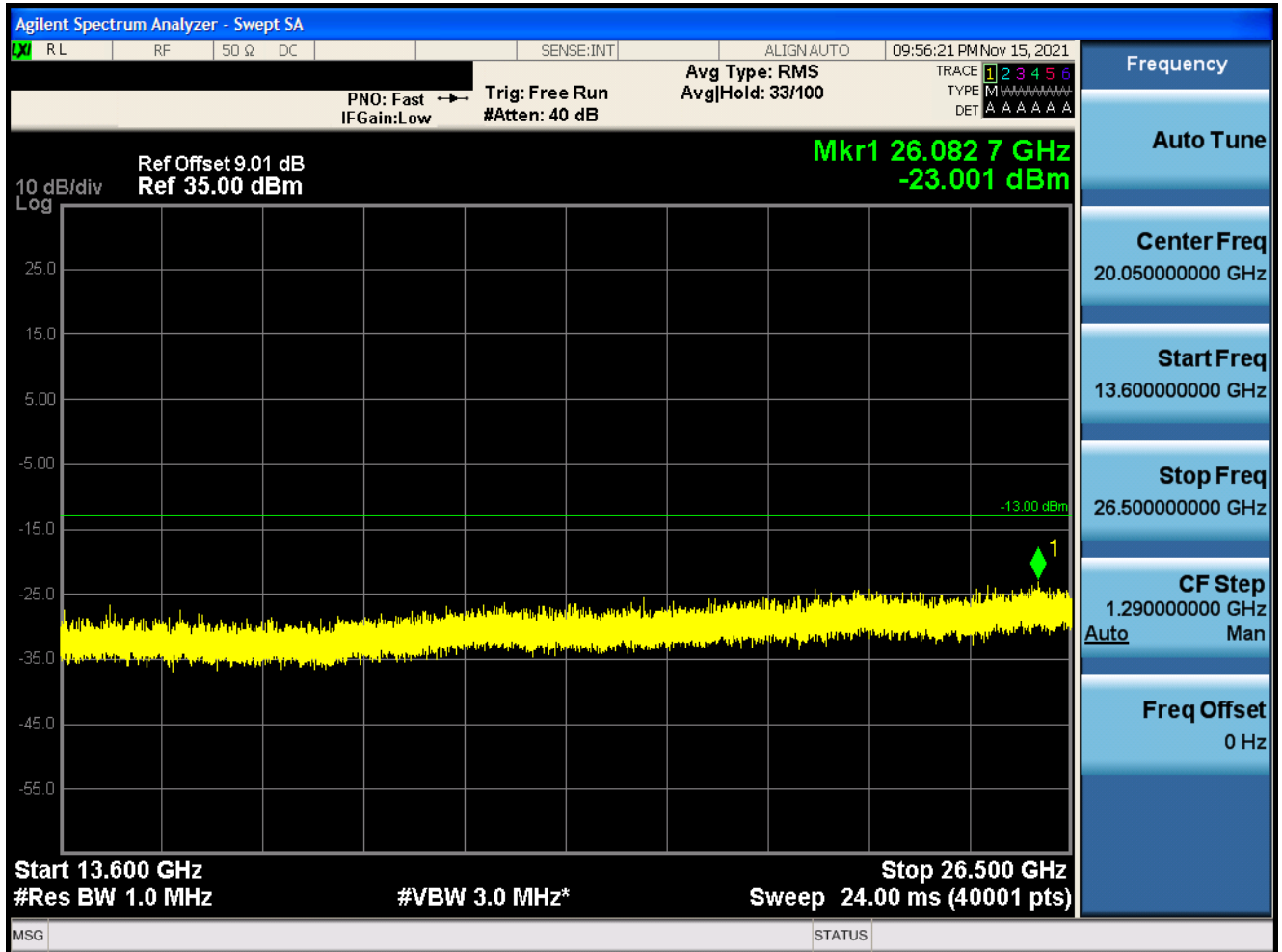




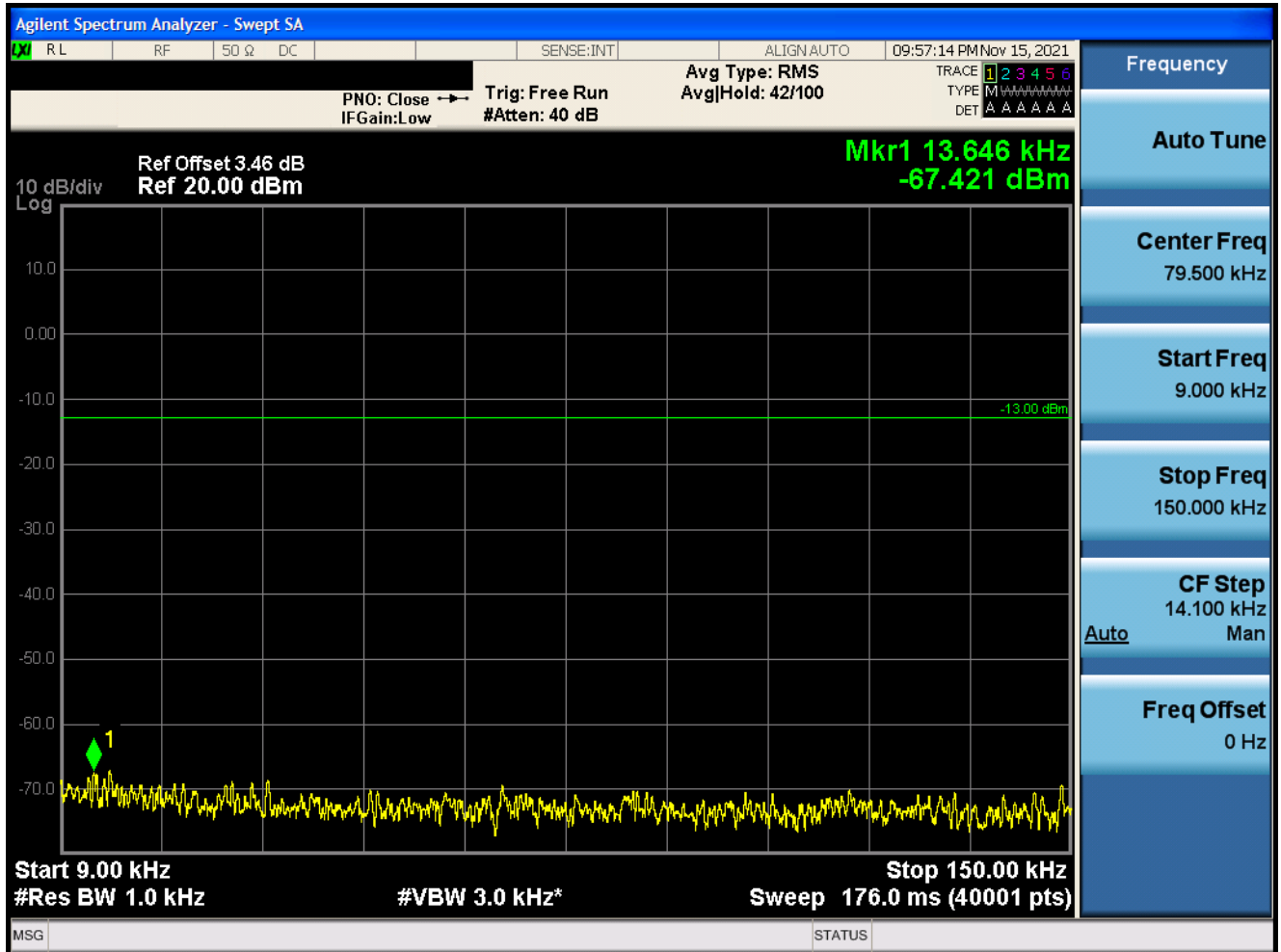


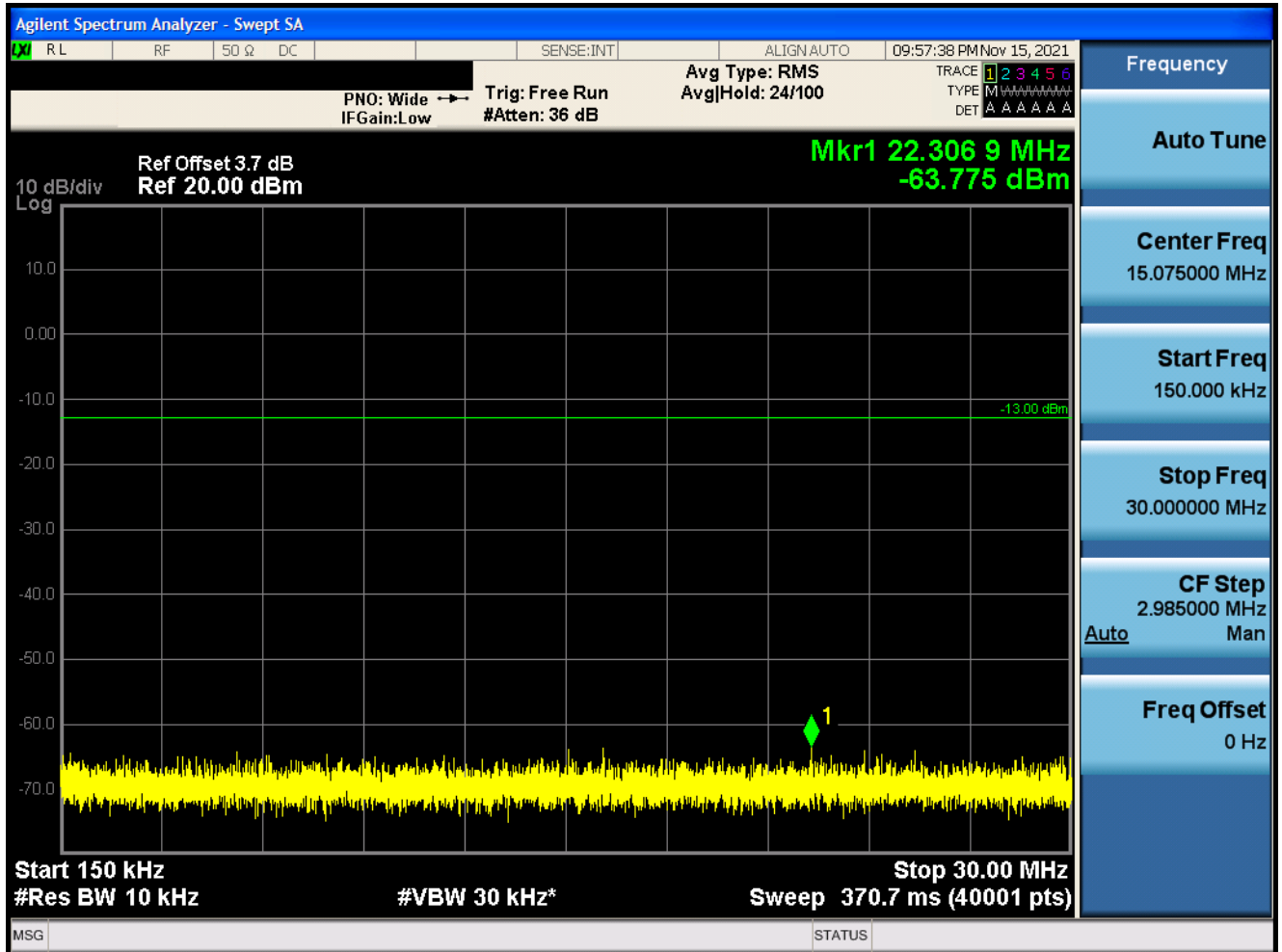


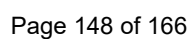


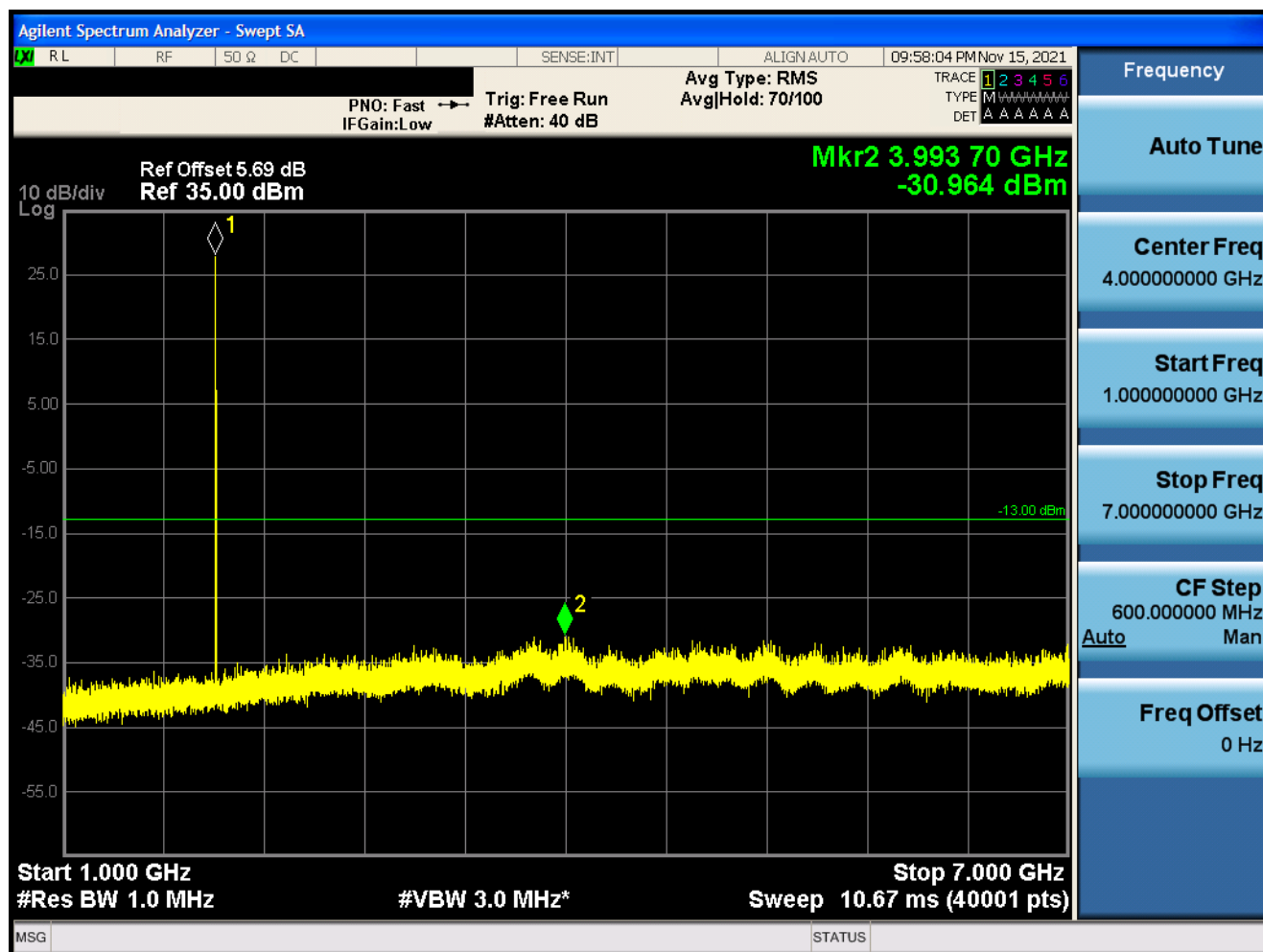


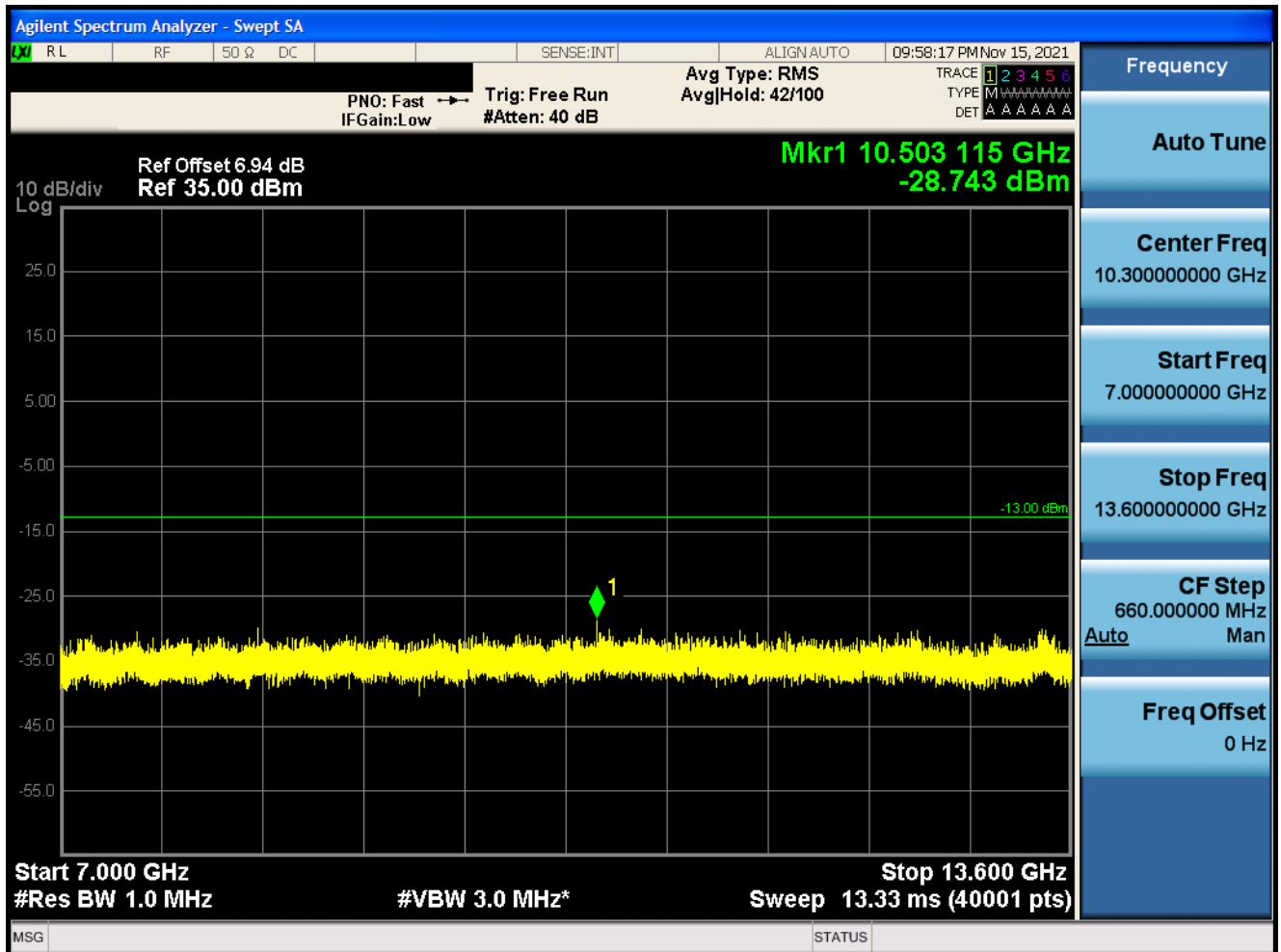
1.2.3.3 Test Channel=HCH

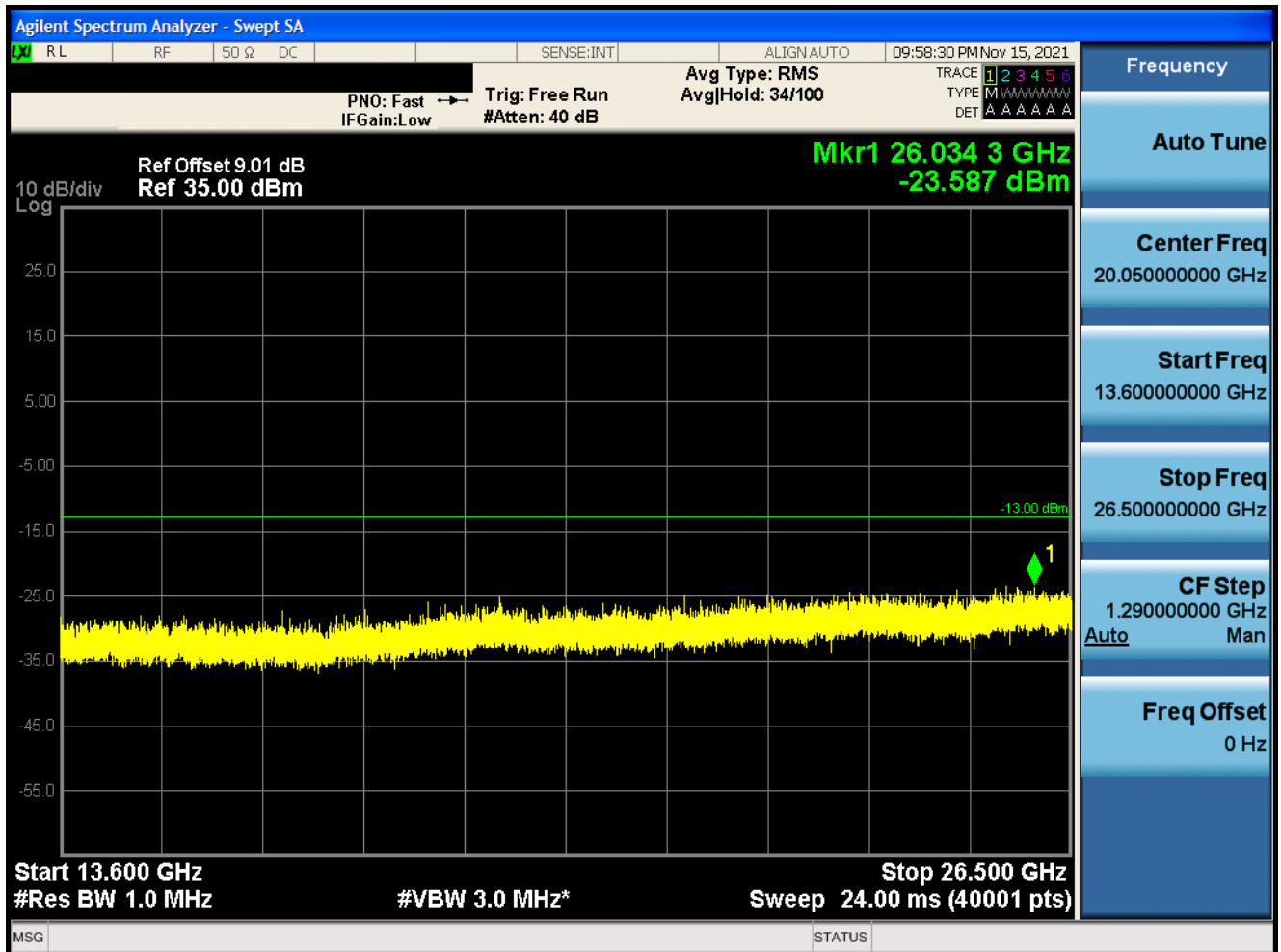












3.7. Field Strength of Spurious Radiation Test

Standard:	FCC Part 22H / 24E	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	824.2 MHz		
Mode:	2G_GSM_850_CH128		
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1648.400	-53.93	2.14	-51.79	-13.00	-38.79	peak
2	2472.600	-54.48	4.82	-49.66	-13.00	-36.66	peak

Standard:	FCC Part 22H / 24E	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	824.2 MHz		
Mode:	2G_GSM_850_CH128		
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1648.400	-57.61	2.14	-55.47	-13.00	-42.47	peak
2	2472.500	-52.80	4.82	-47.98	-13.00	-34.98	peak

Standard:	FCC Part 22H / 24E	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	836.6 MHz		
Mode:	2G_GSM_850_CH190		
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1673.200	-55.63	2.19	-53.44	-13.00	-40.44	peak
2	2509.800	-56.91	4.97	-51.94	-13.00	-38.94	peak

Standard:	FCC Part 22H / 24E	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	836.6 MHz		
Mode:	2G_GSM_850_CH190		
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1673.200	-60.96	2.19	-58.77	-13.00	-45.77	peak
2	2509.800	-60.58	4.97	-55.61	-13.00	-42.61	peak

Standard:	FCC Part 22H / 24E	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	848.8 MHz		
Mode:	2G_GSM_850_CH251		
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1697.600	-57.23	2.25	-54.98	-13.00	-41.98	peak
2	2546.400	-56.80	5.08	-51.72	-13.00	-38.72	peak

Standard:	FCC Part 22H / 24E	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	848.8 MHz		
Mode:	2G_GSM_850_CH251		
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1697.600	-60.66	2.25	-58.41	-13.00	-45.41	peak
2	2546.400	-58.64	5.08	-53.56	-13.00	-40.56	peak

Standard:	FCC Part 22H / 24E	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	1850.2 MHz		
Mode:	2G_GSM_1900_CH512		
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3700.400	-58.42	7.65	-50.77	-13.00	-37.77	peak
2	5550.600	-58.10	12.47	-45.63	-13.00	-32.63	peak

Standard:	FCC Part 22H / 24E	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	1850.2 MHz		
Mode:	2G_GSM_1900_CH512		
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3700.400	-60.72	7.65	-53.07	-13.00	-40.07	peak
2	5550.600	-62.55	12.47	-50.08	-13.00	-37.08	peak

Standard:	FCC Part 22H / 24E	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	1880 MHz		
Mode:	2G_GSM_1900_CH661		
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3760.000	-56.63	7.77	-48.86	-13.00	-35.86	peak
2	5640.000	-58.44	12.72	-45.72	-13.00	-32.72	peak

Standard:	FCC Part 22H / 24E	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	1880 MHz		
Mode:	2G_GSM_1900_CH661		
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3760.000	-61.49	7.77	-53.72	-13.00	-40.72	peak
2	5640.000	-65.15	12.72	-52.43	-13.00	-39.43	peak

Standard:	FCC Part 22H / 24E	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	1909.8 MHz		
Mode:	2G_GSM_1900_CH810		
Ant.Polar.:	Horizontal		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3819.600	-59.68	7.91	-51.77	-13.00	-38.77	peak
2	5729.400	-60.40	12.96	-47.44	-13.00	-34.44	peak

Standard:	FCC Part 22H / 24E	Test Distance:	3 m
Test item:	Harmonic		
Frequency:	1909.8 MHz		
Mode:	2G_GSM_1900_CH810		
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBm)	Correct Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3819.600	-63.08	7.91	-55.17	-13.00	-42.17	peak
2	5729.400	-67.83	12.96	-54.87	-13.00	-41.87	peak

3.8. Frequency Stability (Temperature & Voltage Variation) Test

Frequency Error vs. Voltage:

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict
GSM850	TM1	LCH	TN	VL	10.65	0.01	±2.5	PASS
			TN	VN	4.13	0.01	±2.5	PASS
			TN	VH	9.62	0.01	±2.5	PASS
		MCH	TN	VL	7.36	0.01	±2.5	PASS
			TN	VN	7.55	0.01	±2.5	PASS
			TN	VH	4.78	0.01	±2.5	PASS
		HCH	TN	VL	15.30	0.02	±2.5	PASS
			TN	VN	13.95	0.02	±2.5	PASS
			TN	VH	11.43	0.01	±2.5	PASS

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict
GSM850	TM2	LCH	TN	VL	15.17	0.02	±2.5	PASS
			TN	VN	13.62	0.02	±2.5	PASS
			TN	VH	8.07	0.01	±2.5	PASS
		MCH	TN	VL	7.23	0.01	±2.5	PASS
			TN	VN	7.17	0.01	±2.5	PASS
			TN	VH	6.52	0.01	±2.5	PASS
		HCH	TN	VL	9.75	0.01	±2.5	PASS
			TN	VN	10.07	0.01	±2.5	PASS
			TN	VH	11.17	0.01	±2.5	PASS

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict
GSM850	TM3	LCH	TN	VL	16.95	0.02	±2.5	PASS
			TN	VN	19.86	0.02	±2.5	PASS
			TN	VH	18.92	0.02	±2.5	PASS
		MCH	TN	VL	12.53	0.01	±2.5	PASS
			TN	VN	11.36	0.01	±2.5	PASS
			TN	VH	19.08	0.02	±2.5	PASS
		HCH	TN	VL	19.34	0.02	±2.5	PASS
			TN	VN	18.98	0.02	±2.5	PASS
			TN	VH	15.69	0.02	±2.5	PASS

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict
GSM1900	TM1	LCH	TN	VL	7.55	0.00	±2.5	PASS
			TN	VN	15.43	0.01	±2.5	PASS
			TN	VH	16.14	0.01	±2.5	PASS
		MCH	TN	VL	-7.81	0.00	±2.5	PASS
			TN	VN	0.13	0.00	±2.5	PASS
			TN	VH	-8.91	0.00	±2.5	PASS
		HCH	TN	VL	5.17	0.00	±2.5	PASS
			TN	VN	-0.45	0.00	±2.5	PASS
			TN	VH	2.45	0.00	±2.5	PASS

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict
GSM1900	TM2	LCH	TN	VL	8.46	0.00	±2.5	PASS
			TN	VN	10.33	0.01	±2.5	PASS
			TN	VH	1.74	0.00	±2.5	PASS
		MCH	TN	VL	12.53	0.01	±2.5	PASS
			TN	VN	13.37	0.01	±2.5	PASS
			TN	VH	14.46	0.01	±2.5	PASS
		HCH	TN	VL	2.20	0.00	±2.5	PASS
			TN	VN	2.26	0.00	±2.5	PASS
			TN	VH	5.04	0.00	±2.5	PASS

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict
GSM1900	TM3	LCH	TN	VL	4.68	0.00	±2.5	PASS
			TN	VN	6.04	0.00	±2.5	PASS
			TN	VH	4.42	0.00	±2.5	PASS
		MCH	TN	VL	8.17	0.00	±2.5	PASS
			TN	VN	9.91	0.01	±2.5	PASS
			TN	VH	10.69	0.01	±2.5	PASS
		HCH	TN	VL	10.88	0.01	±2.5	PASS
			TN	VN	14.82	0.01	±2.5	PASS
			TN	VH	1.07	0.00	±2.5	PASS

Frequency Error vs. Temperature:

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict
GSM850	TM1	LCH	VN	-30	13.17	0.02	±2.5	PASS
			VN	-20	8.72	0.01	±2.5	PASS
			VN	-10	5.55	0.01	±2.5	PASS
			VN	0	6.72	0.01	±2.5	PASS
			VN	10	7.62	0.01	±2.5	PASS
			VN	20	5.17	0.01	±2.5	PASS
			VN	30	6.91	0.01	±2.5	PASS
			VN	40	10.46	0.01	±2.5	PASS
			VN	50	9.69	0.01	±2.5	PASS
GSM850	TM1	MCH	VN	-30	9.23	0.01	±2.5	PASS
			VN	-20	7.49	0.01	±2.5	PASS
			VN	-10	4.84	0.01	±2.5	PASS
			VN	0	7.55	0.01	±2.5	PASS
			VN	10	10.20	0.01	±2.5	PASS
			VN	20	1.23	0.00	±2.5	PASS
			VN	30	13.88	0.02	±2.5	PASS
			VN	40	10.53	0.01	±2.5	PASS
			VN	50	11.30	0.01	±2.5	PASS
GSM850	TM1	HCH	VN	-30	10.72	0.01	±2.5	PASS
			VN	-20	8.20	0.01	±2.5	PASS
			VN	-10	10.59	0.01	±2.5	PASS
			VN	0	8.07	0.01	±2.5	PASS
			VN	10	7.10	0.01	±2.5	PASS
			VN	20	4.39	0.01	±2.5	PASS
			VN	30	11.11	0.01	±2.5	PASS
			VN	40	8.98	0.01	±2.5	PASS
			VN	50	11.82	0.01	±2.5	PASS

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict
GSM850	TM2	LCH	VN	-30	9.69	0.01	±2.5	PASS
			VN	-20	10.53	0.01	±2.5	PASS
			VN	-10	10.27	0.01	±2.5	PASS
			VN	0	13.62	0.02	±2.5	PASS
			VN	10	15.24	0.02	±2.5	PASS
			VN	20	12.72	0.02	±2.5	PASS
			VN	30	11.49	0.01	±2.5	PASS
			VN	40	11.36	0.01	±2.5	PASS
			VN	50	15.69	0.02	±2.5	PASS
GSM850	TM2	MCH	VN	-30	10.14	0.01	±2.5	PASS
			VN	-20	9.10	0.01	±2.5	PASS
			VN	-10	10.65	0.01	±2.5	PASS
			VN	0	8.39	0.01	±2.5	PASS
			VN	10	6.07	0.01	±2.5	PASS
			VN	20	5.10	0.01	±2.5	PASS
			VN	30	11.62	0.01	±2.5	PASS
			VN	40	11.36	0.01	±2.5	PASS
			VN	50	12.20	0.01	±2.5	PASS
GSM850	TM2	HCH	VN	-30	12.46	0.01	±2.5	PASS
			VN	-20	12.79	0.02	±2.5	PASS
			VN	-10	13.56	0.02	±2.5	PASS
			VN	0	13.24	0.02	±2.5	PASS
			VN	10	14.66	0.02	±2.5	PASS
			VN	20	13.56	0.02	±2.5	PASS
			VN	30	6.39	0.01	±2.5	PASS
			VN	40	8.91	0.01	±2.5	PASS
			VN	50	16.79	0.02	±2.5	PASS

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict
GSM850	TM3	LCH	VN	-30	18.14	0.02	±2.5	PASS
			VN	-20	17.27	0.02	±2.5	PASS
			VN	-10	14.66	0.02	±2.5	PASS
			VN	0	18.18	0.02	±2.5	PASS
			VN	10	20.99	0.03	±2.5	PASS
			VN	20	20.28	0.02	±2.5	PASS
			VN	30	19.60	0.02	±2.5	PASS
			VN	40	16.53	0.02	±2.5	PASS
			VN	50	16.30	0.02	±2.5	PASS
GSM850	TM3	MCH	VN	-30	17.40	0.02	±2.5	PASS
			VN	-20	16.08	0.02	±2.5	PASS
			VN	-10	15.95	0.02	±2.5	PASS
			VN	0	15.14	0.02	±2.5	PASS
			VN	10	14.08	0.02	±2.5	PASS
			VN	20	13.62	0.02	±2.5	PASS
			VN	30	14.69	0.02	±2.5	PASS
			VN	40	19.60	0.02	±2.5	PASS
			VN	50	19.63	0.02	±2.5	PASS
GSM850	TM3	HCH	VN	-30	16.01	0.02	±2.5	PASS
			VN	-20	15.53	0.02	±2.5	PASS
			VN	-10	15.82	0.02	±2.5	PASS
			VN	0	16.40	0.02	±2.5	PASS
			VN	10	14.82	0.02	±2.5	PASS
			VN	20	17.18	0.02	±2.5	PASS
			VN	30	19.44	0.02	±2.5	PASS
			VN	40	17.63	0.02	±2.5	PASS
			VN	50	20.63	0.02	±2.5	PASS

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict
GSM1900	TM1	LCH	VN	-30	-0.26	0.00	±2.5	PASS
			VN	-20	-0.26	0.00	±2.5	PASS
			VN	-10	16.98	0.01	±2.5	PASS
			VN	0	17.89	0.01	±2.5	PASS
			VN	10	7.49	0.00	±2.5	PASS
			VN	20	6.33	0.00	±2.5	PASS
			VN	30	9.81	0.01	±2.5	PASS
			VN	40	10.53	0.01	±2.5	PASS
			VN	50	8.33	0.00	±2.5	PASS
GSM1900	TM1	MCH	VN	-30	-9.69	-0.01	±2.5	PASS
			VN	-20	6.33	0.00	±2.5	PASS
			VN	-10	-12.07	-0.01	±2.5	PASS
			VN	0	4.26	0.00	±2.5	PASS
			VN	10	3.36	0.00	±2.5	PASS
			VN	20	3.23	0.00	±2.5	PASS
			VN	30	3.55	0.00	±2.5	PASS
			VN	40	4.13	0.00	±2.5	PASS
			VN	50	3.62	0.00	±2.5	PASS
GSM1900	TM1	HCH	VN	-30	3.62	0.00	±2.5	PASS
			VN	-20	11.49	0.01	±2.5	PASS
			VN	-10	8.20	0.00	±2.5	PASS
			VN	0	2.00	0.00	±2.5	PASS
			VN	10	1.49	0.00	±2.5	PASS
			VN	20	2.07	0.00	±2.5	PASS
			VN	30	2.20	0.00	±2.5	PASS
			VN	40	-1.81	0.00	±2.5	PASS
			VN	50	6.33	0.00	±2.5	PASS

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict
GSM1900	TM2	LCH	VN	-30	3.68	0.00	±2.5	PASS
			VN	-20	4.26	0.00	±2.5	PASS
			VN	-10	5.23	0.00	±2.5	PASS
			VN	0	4.33	0.00	±2.5	PASS
			VN	10	3.87	0.00	±2.5	PASS
			VN	20	1.49	0.00	±2.5	PASS
			VN	30	1.61	0.00	±2.5	PASS
			VN	40	1.16	0.00	±2.5	PASS
			VN	50	1.10	0.00	±2.5	PASS
GSM1900	TM2	MCH	VN	-30	14.53	0.01	±2.5	PASS
			VN	-20	14.40	0.01	±2.5	PASS
			VN	-10	12.79	0.01	±2.5	PASS
			VN	0	13.37	0.01	±2.5	PASS
			VN	10	13.75	0.01	±2.5	PASS
			VN	20	12.72	0.01	±2.5	PASS
			VN	30	14.59	0.01	±2.5	PASS
			VN	40	9.36	0.00	±2.5	PASS
			VN	50	8.78	0.00	±2.5	PASS
GSM1900	TM2	HCH	VN	-30	4.97	0.00	±2.5	PASS
			VN	-20	4.52	0.00	±2.5	PASS
			VN	-10	5.23	0.00	±2.5	PASS
			VN	0	6.46	0.00	±2.5	PASS
			VN	10	0.58	0.00	±2.5	PASS
			VN	20	8.85	0.00	±2.5	PASS
			VN	30	6.97	0.00	±2.5	PASS
			VN	40	5.94	0.00	±2.5	PASS
			VN	50	4.78	0.00	±2.5	PASS

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict
GSM1900	TM3	LCH	VN	-30	5.94	0.00	±2.5	PASS
			VN	-20	7.20	0.00	±2.5	PASS
			VN	-10	10.07	0.01	±2.5	PASS
			VN	0	9.94	0.01	±2.5	PASS
			VN	10	10.78	0.01	±2.5	PASS
			VN	20	11.46	0.01	±2.5	PASS
			VN	30	12.04	0.01	±2.5	PASS
			VN	40	4.88	0.00	±2.5	PASS
			VN	50	7.55	0.00	±2.5	PASS
GSM1900	TM3	MCH	VN	-30	11.40	0.01	±2.5	PASS
			VN	-20	13.40	0.01	±2.5	PASS
			VN	-10	14.01	0.01	±2.5	PASS
			VN	0	12.91	0.01	±2.5	PASS
			VN	10	11.72	0.01	±2.5	PASS
			VN	20	13.11	0.01	±2.5	PASS
			VN	30	16.89	0.01	±2.5	PASS
			VN	40	16.43	0.01	±2.5	PASS
			VN	50	18.63	0.01	±2.5	PASS
GSM1900	TM3	HCH	VN	-30	1.74	0.00	±2.5	PASS
			VN	-20	0.10	0.00	±2.5	PASS
			VN	-10	2.45	0.00	±2.5	PASS
			VN	0	3.97	0.00	±2.5	PASS
			VN	10	3.94	0.00	±2.5	PASS
			VN	20	2.71	0.00	±2.5	PASS
			VN	30	6.91	0.00	±2.5	PASS
			VN	40	8.72	0.00	±2.5	PASS
			VN	50	9.81	0.01	±2.5	PASS

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