

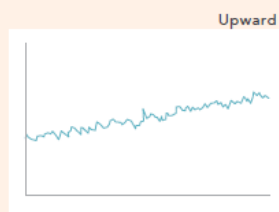
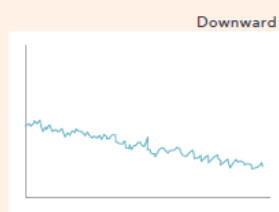


عیب یابی در GC

مشکل شماره ۱: انحراف خط پایه (Baseline drift)

Drift Slow movement of the baseline in one direction (either up or down).

Symptom



Possible Cause

Downward drift for a few minutes is normal after installing a new column.

Unequilibrated detector or oven.

Downward drift is frequently due to the "bakeout" of contaminants from the detector or other parts of the GC.

Excessive damage to the stationary phase of the GC column.

Drift in gas flow rates.

Suggested Remedy

Increase the oven temperature to the maximum continuous operating temperature for the column. Maintain that temperature until a flat baseline is observed. If the detector signal continues to raise or does not drop in 10 minutes, immediately cool the column and check for leaks.

Allow sufficient time for (temperature) equilibration of the detector or oven.

Clean out contamination.

Determine the cause of the damage. It may be due to impurities in the carrier gas or to excessive temperatures. Replace column.

Clean or replace flow or pressure regulator(s). Adjust pressure.