

GC Troubleshooting Guide

Your guide to solving common problems and staying productive



Checking the Basics

Solving a number of problems made fairly simple and often overlooked components of the GC system in analysis. Many of these items are common to the daily operation of the GC and are often taken for granted (but don't forget it!). The areas and items to check include:

- Check pressure, carrier gas storage (flow velocity and flow rate) (check with inert helium purge)
- Temperature (column, reactor, detector and sample tray)
- System elements (purge activation times, detector activation and purge flow ranges etc)
- Gas lines and traps (check flow, leaks and expiration)
- Injector consumables (new liners, O-rings and ferrules)
- Sample integrity (contamination, degradation, solvent and storage)
- Samples handling (solvents, leaks, needle changes, and calibration)
- Data system, settings and connections

Condensation Test

Use the test chamber (injector or carrier gas condensation systems) are activated (e.g. great peaks or gross loading).

1. Leave the GC between 40 to 50 °C for 30 or more hours
2. Run a blank analysis (i.e. run the GC) but with the system using the normal temperature conditions and instrument settings
3. Collect the chromatogram for the blank run
4. Immediately repeat the blank run (stop the flow and a completed) (do not allow more than 5 minutes to elapse before starting the second blank run)
5. Collect the chromatogram for the second blank run and compare it to the first chromatogram.
6. If the first chromatogram contains a large amount of peaks and loading instability, the morning carrier gas line or the carrier gas is contaminated.
7. If both chromatograms contain few peaks or little loading (PFI, the carrier gas and morning carrier gas flow are relatively clean).

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Ghost Peaks or Co-elution



Excessive Baseline Noise



Baseline Instability or Disturbance



Fluctuating Peaks



Tailing Peaks



Problem	Cause	Solution
Baseline noise	Dirty or old reagents	Replace reagents with fresh ones
Baseline noise	Dirty or old detector	Replace detector with a new one
Baseline noise	Dirty or old injector	Replace injector with a new one
Baseline noise	Dirty or old column	Replace column with a new one
Baseline noise	Dirty or old carrier gas	Replace carrier gas with a new one
Baseline noise	Dirty or old sample	Replace sample with a new one
Baseline noise	Dirty or old solvent	Replace solvent with a new one
Baseline noise	Dirty or old instrument	Replace instrument with a new one
Baseline noise	Dirty or old software	Replace software with a new one
Baseline noise	Dirty or old hardware	Replace hardware with a new one

Problem	Cause	Solution
Excessive baseline noise	Dirty or old reagents	Replace reagents with fresh ones
Excessive baseline noise	Dirty or old detector	Replace detector with a new one
Excessive baseline noise	Dirty or old injector	Replace injector with a new one
Excessive baseline noise	Dirty or old column	Replace column with a new one
Excessive baseline noise	Dirty or old carrier gas	Replace carrier gas with a new one
Excessive baseline noise	Dirty or old sample	Replace sample with a new one
Excessive baseline noise	Dirty or old solvent	Replace solvent with a new one
Excessive baseline noise	Dirty or old instrument	Replace instrument with a new one
Excessive baseline noise	Dirty or old software	Replace software with a new one
Excessive baseline noise	Dirty or old hardware	Replace hardware with a new one

Problem	Cause	Solution
Baseline instability or disturbance	Dirty or old reagents	Replace reagents with fresh ones
Baseline instability or disturbance	Dirty or old detector	Replace detector with a new one
Baseline instability or disturbance	Dirty or old injector	Replace injector with a new one
Baseline instability or disturbance	Dirty or old column	Replace column with a new one
Baseline instability or disturbance	Dirty or old carrier gas	Replace carrier gas with a new one
Baseline instability or disturbance	Dirty or old sample	Replace sample with a new one
Baseline instability or disturbance	Dirty or old solvent	Replace solvent with a new one
Baseline instability or disturbance	Dirty or old instrument	Replace instrument with a new one
Baseline instability or disturbance	Dirty or old software	Replace software with a new one
Baseline instability or disturbance	Dirty or old hardware	Replace hardware with a new one

Problem	Cause	Solution
Fluctuating peaks	Dirty or old reagents	Replace reagents with fresh ones
Fluctuating peaks	Dirty or old detector	Replace detector with a new one
Fluctuating peaks	Dirty or old injector	Replace injector with a new one
Fluctuating peaks	Dirty or old column	Replace column with a new one
Fluctuating peaks	Dirty or old carrier gas	Replace carrier gas with a new one
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Fluctuating peaks	Dirty or old instrument	Replace instrument with a new one
Fluctuating peaks	Dirty or old software	Replace software with a new one
Fluctuating peaks	Dirty or old hardware	Replace hardware with a new one

Problem	Cause	Solution
Tailing peaks	Dirty or old reagents	Replace reagents with fresh ones
Tailing peaks	Dirty or old detector	Replace detector with a new one
Tailing peaks	Dirty or old injector	Replace injector with a new one
Tailing peaks	Dirty or old column	Replace column with a new one
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Split Peaks



Resolution Time Shift



Change in Peak Size



Loss of Resolution



Problem	Cause	Solution
Split peaks	Dirty or old reagents	Replace reagents with fresh ones
Split peaks	Dirty or old detector	Replace detector with a new one
Split peaks	Dirty or old injector	Replace injector with a new one
Split peaks	Dirty or old column	Replace column with a new one
Split peaks	Dirty or old carrier gas	Replace carrier gas with a new one
Split peaks	Dirty or old sample	Replace sample with a new one
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Problem	Cause	Solution
Resolution time shift	Dirty or old reagents	Replace reagents with fresh ones
Resolution time shift	Dirty or old detector	Replace detector with a new one
Resolution time shift	Dirty or old injector	Replace injector with a new one
Resolution time shift	Dirty or old column	Replace column with a new one
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Resolution time shift	Dirty or old software	Replace software with a new one
Resolution time shift	Dirty or old hardware	Replace hardware with a new one

Problem	Cause	Solution
Change in peak size	Dirty or old reagents	Replace reagents with fresh ones
Change in peak size	Dirty or old detector	Replace detector with a new one
Change in peak size	Dirty or old injector	Replace injector with a new one
Change in peak size	Dirty or old column	Replace column with a new one
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Change in peak size	Dirty or old software	Replace software with a new one
Change in peak size	Dirty or old hardware	Replace hardware with a new one

Problem	Cause	Solution
Loss of resolution	Dirty or old reagents	Replace reagents with fresh ones
Loss of resolution	Dirty or old detector	Replace detector with a new one
Loss of resolution	Dirty or old injector	Replace injector with a new one
Loss of resolution	Dirty or old column	Replace column with a new one
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