Application Note No. 118

FAMEs with SilFlow™ micro channel systems for backflush

Key Words:
Fame
Silflow
Backflush

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Introduction

This application note is made to show the performance of the SGE Silflow micro channel systems in combination with the OPTIC-4 Multimode Inlet equipped with auxiliary gas channel. In this test the Silflow is placed in the front of the column, just after the OPTIC-4 inlet. This setup is used to prevent that anything will go to the column. It is used for inlet derivatization, drying water based samples etc.

This test is only to see if there is a difference in peak shapes with or without the SilFlow micro channel system connected in the front of the analytical column.

Experimental information

Equipment:
- Shimadzu QP2010 GC/MS
- ATAS GL OPTIC-4 with auxiliary flow channel
- ATAS GL fritted liner
- GL Sciences, InertCap 5MS/SIL, 0.25 mm ID x 30 m, Film 0.25 µm
- SGE SilFlow

Sample:
- Supelco® 37 Component FAME Mix
Results

Figure 2: Column only (no Silflow)
Figure 3: With SilFlow, Aux flow is set to 0 ml/min.

**Conclusion:**
With SilFlow, there is almost no peak broadening or dead volume problems in comparison with column only.