

Application Note No. 118

FAMEs with SilFlowtm 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 in-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

GL Sciences B.V. E-mail: info@glsciences.eu Internet: www.glsciences.eu



Figure 1. Diagram of backflush setup as used in the test.





Figure 2: Column only (no Silflow)

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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.