

**CoreFocus**

**Report**

**No.340**

GC

FID

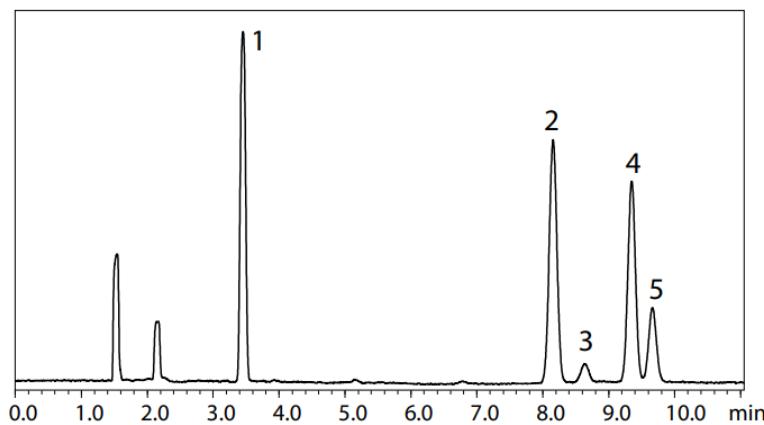
HS

SH Series

**SH-I-624Sil MS**

**Analysis of Residual Solvents in Pharmaceuticals**

**Keywords: Water-Soluble Samples, N<sub>2</sub> Carrier, JP17 Supplement II, USP 467**



1. 1,1-Dichloroethane
2. 1,1,1-Trichloroethane
3. Carbon tetrachloride
4. Benzene
5. 1,2-Dichloroethane

Main Unit	:	Nexis™ GC-2030
Detector	:	FID-2030 flame ionization detector
Column	:	SH-I-624Sil MS (30 m x 0.32 mm I.D. df = 1.8 µm), P/N: 227-36077-01
Column Temp.	:	40 °C (20 min) - 10 °C/min - 240 °C (20 min) Total 60 min
Injection Mode	:	Split 1:5
Carrier Gas Controller	:	Linear Velocity (N <sub>2</sub> )
Linear Velocity	:	35 cm/s
Detector Temp.	:	250 °C
FID H <sub>2</sub> Flow Rate	:	32 mL/min
FID Make Up Flow Rate	:	24 mL/min (N <sub>2</sub> )
FID Air Flow Rate	:	200 mL
Injection Volume	:	1 mL

HS-20		
Oven Temp.	:	80 °C
Sample Line Temp.	:	110 °C
Transfer Line Temp.	:	120 °C
Vial Shaking Level	:	Off
Vial Volume	:	20 mL
Vial Equilibrating Time	:	60 min
Vial Pressurization Time	:	1 min
Vial Pressure	:	75 kPa
Loading Time	:	0.5 min
Needle Flush Time	:	5 min

Source : Application News G325 ([JP](#), [ENG](#))

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