

CoreFocus
Report
No.398

GCMS

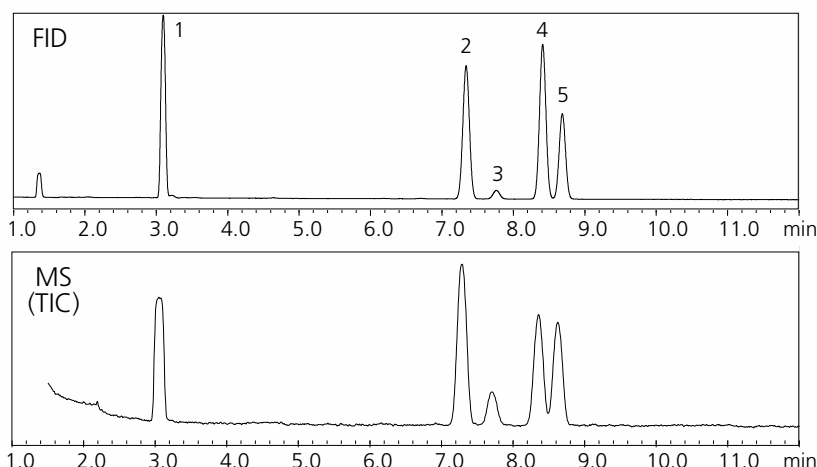
FID

HS

SH Series

SH-I-624Sil MS
Analysis for Residual Solvents in
Pharmaceuticals
- JP18, USP467 : Class 1 Standard Solution

Keywords: ICH Q3C, Impurities: Guideline, Headspace, GC-FID



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

Model	: GCMS-QP™2010 NX/HS-20 NX/FID-2030	FID	
Column	: SH-I-624Sil MS (30 m x 0.32 mm I.D., 1.8 µm) P/N : 227-36077-01	Detector temp.	: 250 °C
Column temp.	: 40 °C (20 min) - 10 °C/min - 240 °C (20 min) Total 60 min	FID H ₂ flow rate	: 32 mL/min
Injection mode	: Split 1 : 5	FID make-up flow rate	: 24 mL/min (He)
Carrier gas controller	: Constant linear velocity mode (He)	FID air flow rate	: 200 mL/min
Linear velocity	: 40 cm/s	MS	
HS		Ion source temp.	: 200 °C
Oven temp.	: 80 °C	Interface temp.	: 250 °C
Equilibration time	: 45 min	SCAN range	: m/z 30 to 250
Sample line temp.	: 110 °C	Event time	: 0.3 s
Transfer line temp.	: 120 °C		
Vial stirring	: Off		
Vial volume	: 20 mL		
Vial pressurization time	: 1 min		
Vial pressure	: 75.0 kPa (He)		
Loading time	: 0.5 min		
Needle flush time	: 5 min		
injection volume	: 1 mL		
Load equilibrating time	: 0 min		

Source : Application News 01-00221-JP ([JP](#), [ENG](#))

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