

CoreFocus
Report
No.407

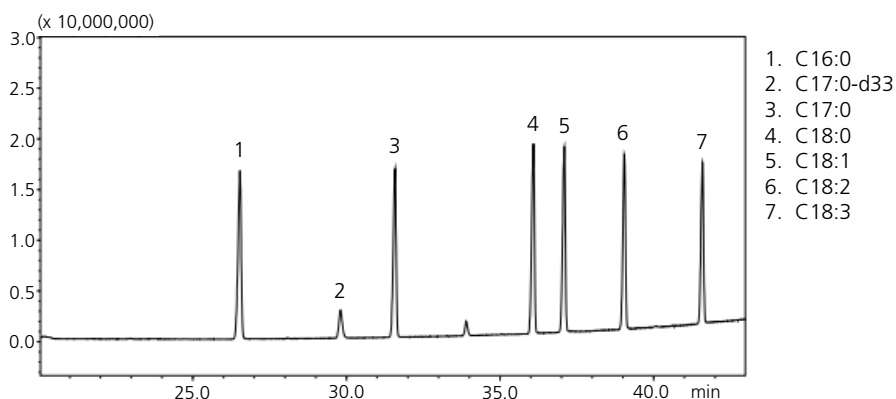
GCMS

AOC

SH Series

SH-PolarWax
Determination of Fatty Acids Methyl
Esters (FAMES) in Aviation Turbine Fuel
as per IP585

Keywords: petroleum product, fuel



System Configuration

Model : GCMS-QP™2020 NX/AOC™-20i plus + AOC-20s plus
Glass insert : Splitless insert with deactivated glass wool
P/N : 227-35008-01
Column : SH-PolarWax (60m x 0.25 mm I.D., 0.5 µm)
P/N : 227-36248-02

GC

Injection temp. : 260 °C
Flow mode : Constant flow
Column flow : 0.8 mL/min
Purge flow : 3.0 mL/min
Column oven temp. : 150 °C (5 min) – 12 °C/min – 200 °C (17 min) –
3 °C/min – 252 °C (6.5 min)
Injection volume : 1.0 µL

MS

Ion source temp. : 230 °C
Interface temp. : 260 °C
Solvent cut time : 20.00 min
Detector voltage : 1.27 kV
Event time : Scan 0.1 s / SIM 0.3 s
Scan range (m/z) : 32 - 332

Mass table

Analyte	Type	Ions m/z
C16:0	Target	227, 239, 270, 271
C17:0 d33	ISTD	317
C17:0	Target	241, 253, 284
C18:0	Target	255, 267, 298
C18:1	Target	264, 265, 296
C18:2	Target	262, 263, 264, 294, 295
C18:3	Target	236, 263, 292, 293

Source : Application News 07-GC-21007 ([JP](#), [ENG](#))

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