

CoreFocus
Report
No.404

GCMS

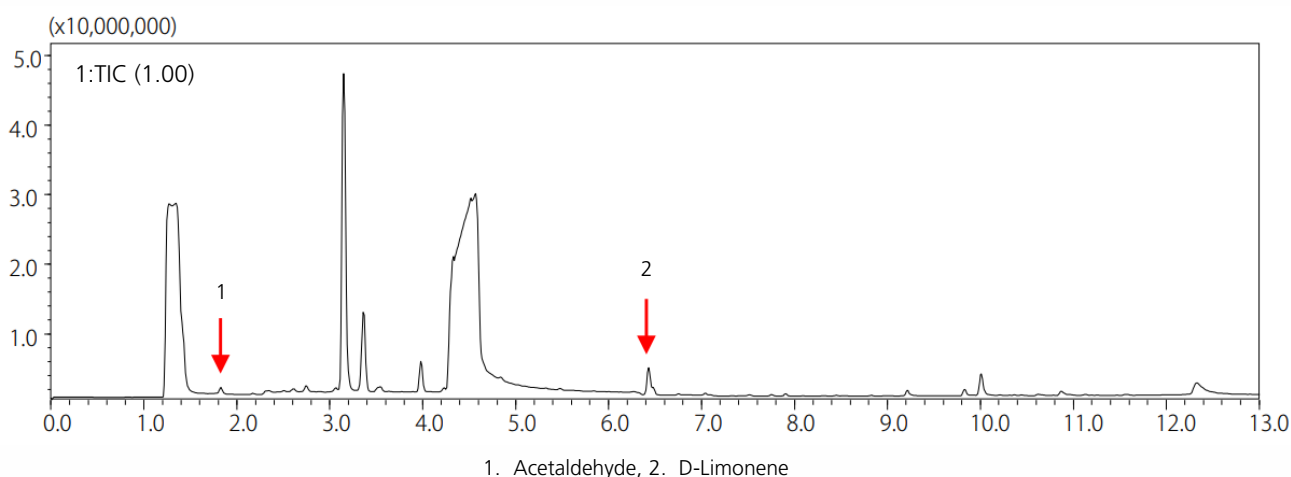
HS

SH Series

SH-PolarWax

Analysis of Acetaldehyde and Limonene in Recycled PET

Keywords: Environment, Resin, Container and packing waste



GC-MS Conditions

Model : GCMS-QP™2010 NX/HS-20 NX
Column : SH-PolarWax (30 m x 0.25 mm I.D., 0.5 µm)
P/N : 227-36248-01
Column temp. : 40 °C - 10 °C/min - 250 °C
Total 21min
Injection mode : Split 1 : 20
Carrier gas controller : Fixed linear velocity mode (He)
Linear velocity : 30 cm/s
Interface temp. : 250 °C
Ion source temp. : 200 °C
Measurements mode : Scan/SIM (simultaneous measurement)
Scan range : *m/z* 10 - 250
SIM : *m/z* 43, 29, 42 (acetaldehyde)
m/z 136, 68, 93 (D-limonene)
Event time : 0.3 s

HS Sampling Conditions

Oven temp. : 80 °C
Sample line temp. : 150 °C
Transfer line temp. : 150 °C
Vial stirring : Off
Vial volume : 20 mL
Vial heat-retention time : 30 min
Vial pressurization time : 0.5 min
Vial pressure : 80.0 kPa
Loading time : 0.5 min
Needle flush time : 5.0 min
Injection volume : 1 mL
Load equilibrating time : 0.1 min

Source : Application News 01-00311 ([JP](#))

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