

**CoreFocus**  
**Report**  
**No.401**

GCMS

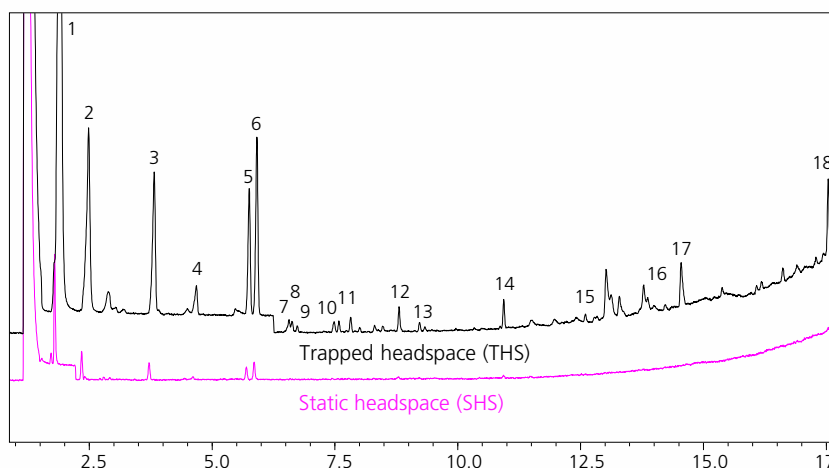
HS

SH Series

**SH-I-624SiL MS**

**Aroma Components Analysis for Almonds**

**Keywords: Food, Nuts**



1. Acetaldehyde
2. Pentane
3. Isobutyraldehyde
4. Ethyl Acetate
5. Isovaleraldehyde
6. 2-Methylbutyric aldehyde
7. Acetol
8. Pentanal
9. Propyl acetate
10. Dimethyl disulfide
11. 1-Methylpyrrole
12. Hexanal
13. Methylpyrazine
14. 2,5-Dimethylpyrazine
15. Acetophenone
16. Benzyl alcohol
17. Nonanal
18. Anethole

**GC-MS Conditions**

Model	: GCMS-QP™2020 NX/HS-20 NX Trap
Column	: SH-I-624SiL MS (30 m x 0.32 mm I.D., 1.8 µm) P/N : 227-36077-01
Column temp.	: 40 °C (2 min) - 10 °C/min - 200 °C (6 min) Total 24 min
Injection mode	: Split 1 : 20
Carrier gas controller	: Fixed linear velocity mode (He)
Linear velocity	: 43.2 cm/s
Interface temp.	: 250 °C
Ion source temp.	: 200 °C
Scan	: <i>m/z</i> 35 - 400

**HS Sampling Conditions**

Oven temp.	: 70 °C
Equilibration time	: 45 min
Sample line temp.	: 150 °C
Transfer line temp.	: 150 °C
Vial stirring	: Off
Vial volume	: 20 mL
Vial pressurization time	: 0.5 min
Vial pressure equilibrating time	: 0.1 min
Loading time	: 0.5 min
Load equilibrating time	: 0 min
Multi injection	: 3
Vial pressure	: 100.0 kPa (He)
Trap cooling temp.	: -10°C
Trap heating temp.	: 250 °C
Trap adsorbent	: Tenax TA 60/80 mesh 37 mg
Injection time	: 5.0 min
Needle flush time	: 5.0 min

Source : Application News 01-00218 ([JP](#), [ENG](#))

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