

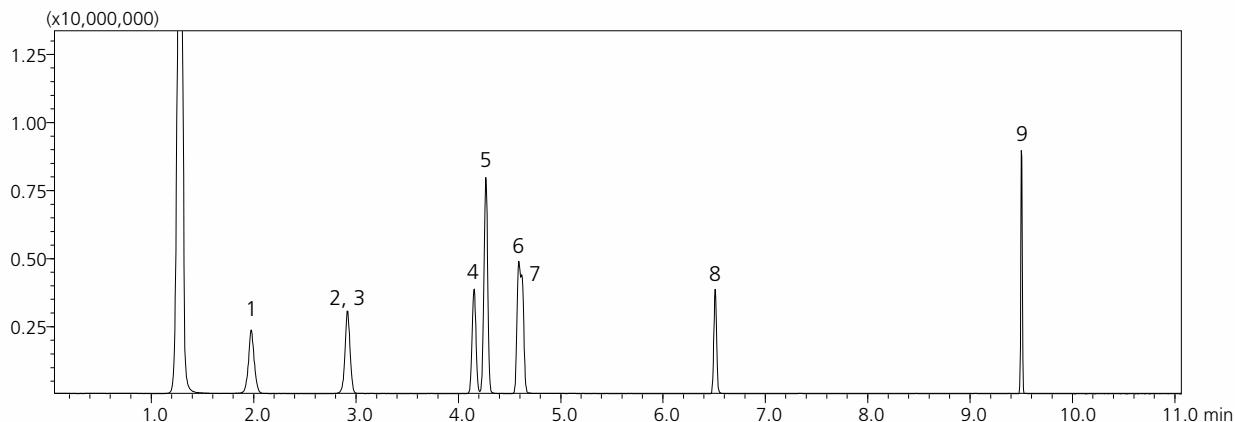
**CoreFocus**  
Report  
No.405

GCMS TD SH Series

**SH-5MS**

**Measurement of VOCs in Vehicle Interiors  
with Nitrogen as the Carrier Gas**

**Keywords:** Environment, Alternative carrier gas



1. Benzene, 2. Toluene-D8, 3. Toluene, 4. Ethylbenzene, 5. *m,p*-Xylene, 6. Styrene, 7. *o*-Xylene, 8. 1,4-Dichloro benzene, 9. Tetradecane (1000 ng each)

Model : GCMS-QP™2020 NX/TD-30R

**TD-30R**

Tube desorb. temp. : 280 °C (10 min)  
Tube desorb. flow : 60 mL/min  
Trap cooling temp. : -20 °C  
Trap desorb. temp. : 280 °C (10 min)  
Joint temp. : 250 °C  
Valve temp. : 250 °C  
Transfer line temp. : 250 °C  
Internal STD : Variable volume (20 mL/min, 0.1 min)  
Restore : ON  
Dry purge : -20 °C (20 mL/min, 3 min)

**GC**

Injection mode : Split  
Split ratio : 50  
Carrier gas : N<sub>2</sub>  
Carrier gas control : Linear velocity (40 cm/s)  
Column : SH-5MS (30 m x 0.25 mm I.D., 0.25 µm)  
P/N : 221-75855-30  
Column oven temp. : 40 °C (1 min) - 10 °C /min - 100 °C - 40 °C/min  
- 200 °C - 20 °C/min - 300 °C (5 min)

**MS**

Ion source temp. : 230 °C  
Interface temp. : 280 °C  
Acquisition mode : Scan  
Scan mass range : *m/z* 45 - 600  
Event time : 0.3 s

Source : Application News 01-00366 ([JP](#), [ENG](#))

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