

CoreFocus Report

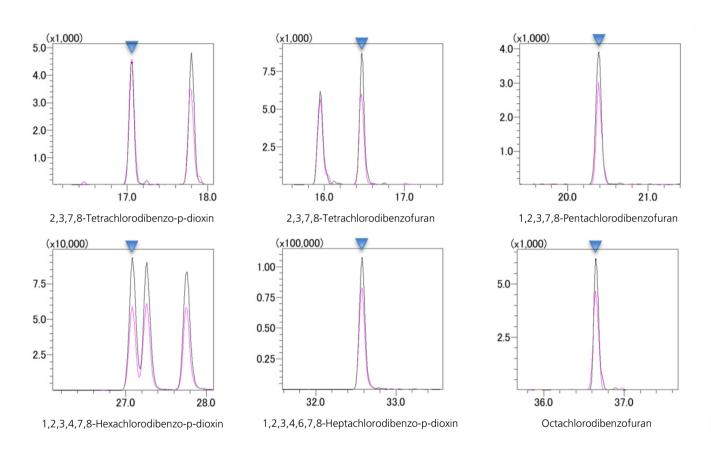
No.388

GCMS HS SH Series

SH-I-5Sil MS

# **Analysis of Dioxins in Foods and Feeds**

Keywords: Persistent organic pollutants, POPs



 $Chromatograms \ of \ Representative \ Compounds \ in \ Analysis \ of \ Standard \ Samples \ (Concentration: \ 0.025 \ pg/\mu L)$ 

**Instrument Composition** 

SpeedExtractor Sample preparation (extraction)

(BÜCHI Labortechnik AG) Sample preparation (clean-up) GO-xHT (Miura Co., Ltd.)

Auto sampler AOC-20i/s GC-MS/MS GCMS-TO™8050

GCMSsolution™ Ver. 4.50SP1 Software

LabSolutions Insight<sup>™</sup> Ver. 3.6 EU Regulation Compliant GC-MS/MS Method Package for Dioxins in Foods

**Detailed Analysis Conditions (AOC-**20i/s)

3 # of rinses with solvent (pre-run) # of rinses with solvent (post-run) 3 # of rinses with sample 0 Low Plunger speed (suction) Viscosity comp. time 0.2 s High Plunger speed (injection) Syringe insertion speed High Pumping times Inj. port dwell time 035 Terminal air gap No Plunger washing speed High Washing volume 6 µL Injection volume  $2 \mu L$ 

**Detailed Analysis Conditions (GC)** 

Inlet liner Topaz®single gooseneck inlet liner, w/wool

(Restek Corp., P/N: 23336)

SH-I -5Sil MS (60 m x 0.25 mm I.D., 0.25 um) Column

P/N: 227-36036-02

Injection mode Spiltless 1.00 min Sampling time 280 °C Injection temp.

150 °C (1min) - (20 °C/min) - 220 °C - (2 °C/min) Column oven temp.

- 260 °C (3 min) - (5 °C /min) - 320 °C (3.5 min)

High pressure injection 450 kPa (1.5 min) Flow control mode Linear velocity (45.6 cm/s)

Purge flow 20 mL/min Carrier gas Helium

**Analysis Conditions (MS)** 

230 °C Ion source temp. 300 °C Interface temp.

Detector voltage 1.8 kV (absolute)

0.8 s (for native compounds) Loop time

0.2 s (for labeled compounds) Conditions of method package

Transition Ion source **Emission current** 150 µA

Source: Application News M287 (ENG)

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