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Agilent J&W VF-1701ms

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Food testing and agriculture

[Discrimination of roast and ground coffee aroma](#)

Flavour, **1**, (2012)
Ian Denis Fisk *et al.*

Tags
DB-1701, VF-1701ms, 6890 GC, 7890A GC, 5975C
MS, food testing and agriculture, food
processing and packaging

Abstract

Background: Four analytical approaches were used to evaluate the aroma profile at key stages in roast and ground coffee brew preparation (concentration within the roast and ground coffee and respective coffee brew; concentration in the headspace of the roast and ground coffee and respective brew). Each method was evaluated by the analysis of 15 diverse key aroma compounds that were predefined by odour port analysis. Results: Different methods offered complimentary results for the discrimination of products; the concentration in the coffee brew was found to be the least discriminatory and concentration in the headspace above the roast and ground coffee was shown to be most discriminatory. Conclusions: All approaches should be taken into consideration when classifying roast and ground coffee especially for alignment to sensory perception and consumer insight data as all offer markedly different discrimination abilities due to the variation in volatility, hydrophobicity, air-water partition coefficient and other physicochemical parameters of the key aroma compounds present. © The Authors

[One-step extraction for gas chromatography with flame photometric detection of 18 organophosphorus pesticides in Chinese medicine health wines](#)

Journal of Chromatography B, **885**, 90-96 (2012)
Qianzhen Liu *et al.*

Tags
VF-1701ms, DB-5, 6890N GC, 7683 Autosampler,
food testing and agriculture, pesticides

Abstract

The identity of organophosphorus pesticides in wine was confirmed by Agilent J&W columns fitted to an Agilent 6890n GC. Published by Elsevier B. V.

Materials testing and research

[Multicomponent analytical methodology to control phthalates, synthetic musks, fragrance allergens and preservatives in perfumes](#)

Talanta, **85**, 370-379 (2011)
Lucia Sanchez-Prado *et al.*

Tags
VF-1701ms, HP-5 materials testing and research, consumer products

Abstract

The contents of 52 cosmetic ingredients belonging to different chemical families was determined in a single run using Agilent GC/MS instruments and Agilent J&W columns. Published by Elsevier B. V.

Small molecule pharmaceuticals and generics

[Direct measurement of part-per-billion levels of dimethyl sulfoxide in water by gas chromatography with stacked injection and chemiluminescence detection](#)

Journal of Separation Science, **35**, 1486-1493
(2012)
Jim Luong *et al.*

Tags
HP-1ms Ultra Inert, CP-Volamine, CP-Sil 5 CB, PoraBOND Q, VF-5ms, VF-1ms, VF-1701ms, VF-WAXms, 6890, 7890A, 7683B, Small molecule pharmaceuticals and generics

Abstract

A range of Agilent J&W GC columns and instruments were used in a comprehensive investigation of DMSO in water. Published by John Wiley and Sons.

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