



Agilent Technologies



Certificate of Analysis

EN12916:2006, IP391/07 System Calibration Standards 1 and 2 (SCS1 and SCS2)

Aromatic Hydrocarbon Test Method for Diesel and Petro/Biodiesel Analysis

Agilent Part
Number: 5190-0485

Kit Lot
Number: N80737

This Certified Reference Material (CRM) was manufactured and verified in accordance with ULTRA Scientific's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The certified value and uncertainty value for each analyte was determined gravimetrically.

Vial	Lot #	Analyte	CAS#	Purity*	Certified Value	
5190-0485-1	N80737-1	cyclohexane	000110-82-7	99+%	10.0 ± 0.1	mg/mL
		1-phenyldodecane	000123-01-3	98+%	1.00 ± 0.01	mg/mL
		o-xylene	000095-47-6	98+%	5.02 ± 0.03	mg/mL
		hexamethylbenzene	000087-85-4	98+%	1.00 ± 0.01	mg/mL
		naphthalene	000091-20-3	98+%	0.999 ± 0.005	mg/mL
		dibenzothiophene	000132-65-0	98+%	0.502 ± 0.003	mg/mL
		9-methylanthracene	000779-02-2	98+%	0.502 ± 0.003	mg/mL
5190-0485-2	N80737-2	hexadecanoic acid	000112-39-0	98+%	800 ± 4	µg/mL
		methyl ester				
		octadecanoic acid	000112-61-8	98+%	803 ± 4	µg/mL
		methyl ester				
		oleic acid	000112-62-9	98+%	800 ± 4	µg/mL
		methyl ester				
		linoleic acid	000112-63-0	98+%	804 ± 4	µg/mL
		methyl ester				
		linolenic acid	000301-00-8	98+%	803 ± 4	µg/mL
		methyl ester				
		chrysene	000218-01-9	98+%	401 ± 2	µg/mL

Solvent: n-heptane

ULTRA Scientific uses calibrated Class A glassware and clean bottles in the manufacture of ULTRA standards. Balances used in the manufacture of this standard are calibrated with weights traceable to NIST in compliance with ANSI/NCCL Z-540-1 and ISO 9001.

Date of release: 14 June 2013

Date of expiration: 31 July 2015

* Purity values updated on 12 November 2014


William J. Leach
Quality Assurance Manager



Agilent Technologies



Instrument Method Conditions:

Instrument and method conditions used must be fully compliant with the IP391:2006 requirement.

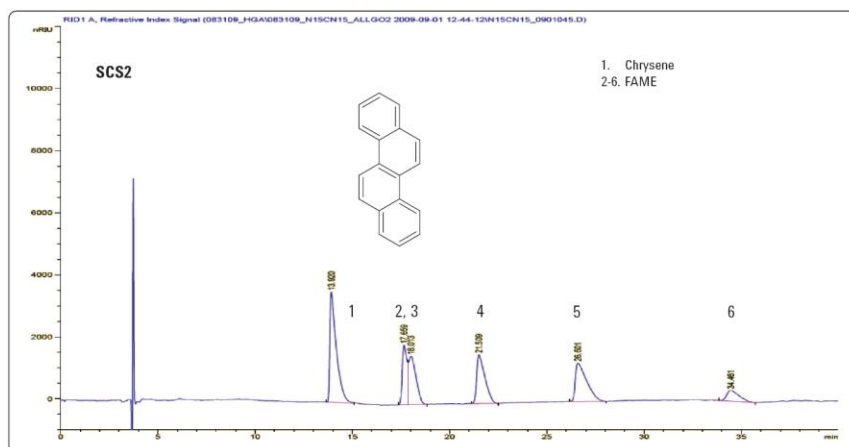
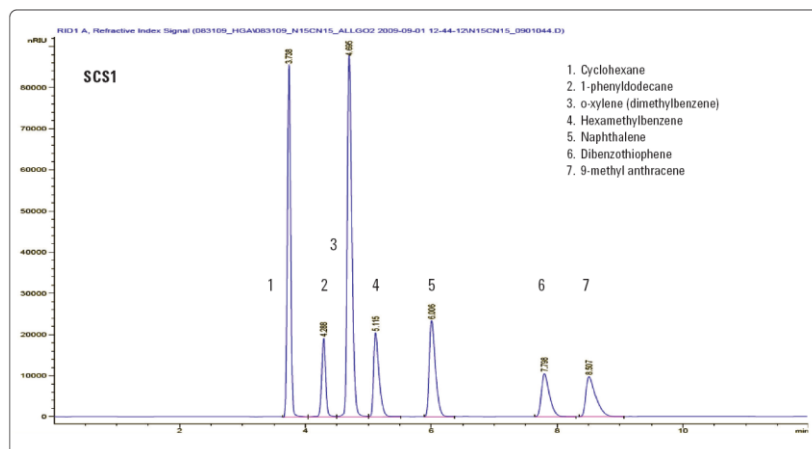
Mobile phase: n-heptane at 1ml/min flow rate.

Column: ZORBAX NH2 4.6x150mm, 5um, and ZORBAX (RP) SB-CN 4.6x150mm, 5um, in series.

Column Temperature: 25°C.

Detector: Refractive Index, 35°C.

Example Signal Traces



William J. Lea
Quality Assurance Manager