



Certificate of Analysis

EN12916:2006, IP391/07 Cal. Solns A-D

Aromatic Hydrocarbon Test Method for Diesel and Petro/Biodiesel Analysis

Agilent Part
Number: 5190-0484

Kit Lot
Number: N80721

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	
5190-0484-A	N80721-A	o-xylene	000095-47-6	98+%	40.0 ± 0.2	mg/mL
		fluorene	000086-73-7	98+%	20.0 ± 0.1	mg/mL
		phenanthrene	000085-01-8	98+%	4.00 ± 0.02	mg/mL
5190-0484-B	N80721-B	o-xylene	000095-47-6	98+%	10.0 ± 0.1	mg/mL
		fluorene	000086-73-7	98+%	10.0 ± 0.1	mg/mL
		phenanthrene	000085-01-8	98+%	2.00 ± 0.01	mg/mL
5190-0484-C	N80721-C	o-xylene	000095-47-6	98+%	2.50 ± 0.01	mg/mL
		fluorene	000086-73-7	98+%	2.50 ± 0.01	mg/mL
		phenanthrene	000085-01-8	98+%	0.500 ± 0.003	mg/mL
5190-0484-D	N80721-D	o-xylene	000095-47-6	98+%	0.500 ± 0.003	mg/mL
		fluorene	000086-73-7	98+%	0.200 ± 0.001	mg/mL
		phenanthrene	000085-01-8	98+%	0.100 ± 0.001	mg/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/NCSL Z-540-1 and ISO 9001.

Date of release: 21 May 2013

Date of expiration: 30 June 2015

William J. Lea
Quality Assurance Manager



Agilent Technologies



Instrument Method Conditions:

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

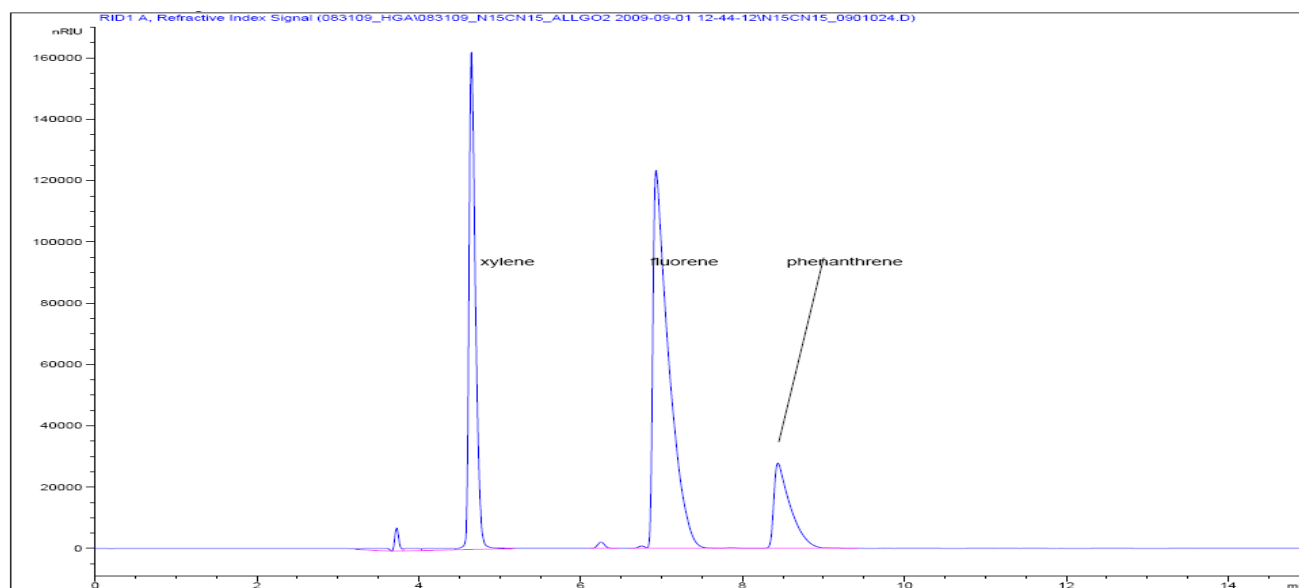
Mobile phase: n-heptane at 1ml/min flow rate

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 Trace




William J. Leach
Quality Assurance Manager