Agilent Technologies

ULTRA SCIENTIFIC
Analytical Solutions

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**

Sample Lot Number: **N80355**

This Certified Reference Material (CRM) was manufactured and verified in accordance with ULTRA's ISO 9001:2000 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	N80355-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	N80355-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	N80355-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	N80355-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 uses calibrated Class A glassware and meticulously cleaned bottles in the manufacturing of ULTRA standards. Balances used in the manufacturing of this standard are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001

Date of release: 18 November, 2009
Date of expiration: 31 December, 2011

William J. Leary
Quality Assurance Manager

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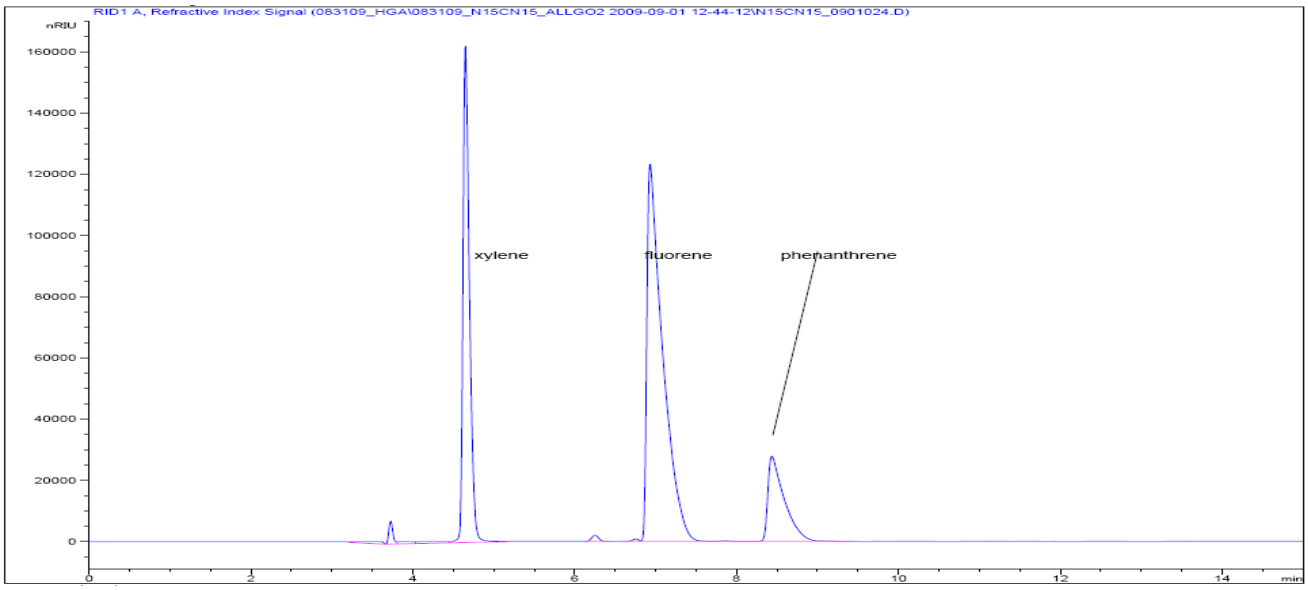
Instrument Method Conditions:

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. Leahy
Quality Assurance Manager