Fuel Marker Solvent Yellow 124 Precision Demonstration [DFM001:OMB # 2060-0566 Expires 3/31/2009]

Test Method				
Name of Method:				
Organization ID No.(as in ASTM D XXXX-XX):				
Laboratory Identification				
Laboratory Name:				
Laboratory Street Address:				
Laboratory City:				
Laboratory State:				
Laboratory Zip code:				
Laboratory Contact Person:				
Laboratory Contact Phone Number:				
Laboratory Contact Facsimile Number:				
Laboratory Contact E-mail:				
Confidential Business Information Claim. A co- covering the information contained in this subm made available to the public by EPA without fu- handled pursuant to 40 CFR Part 2. Is confide (Note: Please answer by typing "Yes" or "No" in	nission. If no such clair orther notice. All question ntiality claimed for the i	m is made the inforn ons of confidentiality	nation may be / will be	
Fuel Marker Solvent Yellow 124 Precision Criterion - a standard deviation less than 0.10 milligration of a minimum of 20 repeat tests made over 20 days on samples taken from a single homogeneous meets the applicable industry consensus and federal regulatory specifications and which contains to concentration in the range of 0.10 to 8 milligrams per liter. The 20 results must be a series of tests and no omissions. A lab facility may exclude a given sample or test result only if the exclusion is for practices and it maintains records regarding the sample and test results and the reason for excluding			ogeneous comme contains the fuel es of tests with a usion is for a vali	ercially available diesel fuel which marker solvent yellow 124 at a sequential record of the analyses d reason under good laboratory
Is fuel marker solvent yellow 124 Precision Criterion Met?	REQUIF	RED DATA MISSIN	<u>G</u>	
standard deviation	REQUIF	RED DATA MISSIN		
Laboratory Test Identification Number	Date (mm/dd/yyyy)	Time (hh:mm:ss am/pm)	Test Result (mg/l)	Data Entry QC Check on Test Result

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DATA DECLUDED IN CELL D22		DATA REQUIRED IN CELL D32
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DATA REQUIRED IN CELL D35		DATA REQUIRED IN CELL D35
DATA REQUIRED IN CELL D36		DATA REQUIRED IN CELL D36
DATA REQUIRED IN CELL D37		DATA REQUIRED IN CELL D37
DATA REQUIRED IN CELL D38		DATA REQUIRED IN CELL D38
DATA REQUIRED IN CELL D39		DATA REQUIRED IN CELL D39

Fuel Marker Solvent Yellow 124 A

Test Method	
Name of Method:	
	0
Organization ID No.(as ASTM in D XXXX-XX):	0
Laboratory Identification	
Laboratory Name:	0
Laboratory Street Address:	0
Laboratory City:	0
Laboratory State:	0
Laboratory Zip code:	0
Laboratory Contact Person:	0
Laboratory Contact Phone Number:	
Laboratory Contact Facsimile Number:	0
Laboratory Contact E-mail Address:	0

Confidential Business Information Claim. A company may assert a business confidentiality c information may be made available to the public by EPA without further notice. All questions the information in this submission? (Note: Please answer by typing "Yes" or "No" in the adjaction.

0.10 to 1 milligrams per liter Accuracy Criterion - the arithmetic average of a continuous s commercially available fuel marker solvent yellow 124 standard in the range of 0.10 to 1 millignacepted reference value (ARV) of that standard by more than 0.05 milligrams per liter. India for any known chemical interferences.

Accuracy Criterion for 0.10-1 mg/l				
fuel marker solvent yellow 124 standard				
s 0.10-1 mg/l fuel marker solvent yellow 124 Accuracy Criterion Met? REQUIRED DATA MISSING				
Arithmetic Average (mg/l)	REQUIRED DATA MISSING			
Name of Standard Vendor				
Lot Identification Number of Standard				
Accepted Reference Value (ARV) of standard (mg/l)				
Difference between Arithmetic Average and ARV of Standard	REQUIRED DATA MISSING		<u>ING</u>	
Laboratory Test Identification Number	Date (mm/dd/yyyy)	Time (hh:mm:ss am/pm)	Test Result (mg/l)	

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aim covering the information contained in this submission. If no such claim is made the of confidentiality will be handled pursuant to 40 CFR Part 2. Is confidentiality claimed for zent cell.) 4 to 10 milligrams per liter Accuracy Criterion - the performed on a grams per liter shall not differ from the idual test results shall be compensated liter shall not differ from the accepted reference value (Individual test results shall be compensated or any knumber of the stress o	Accuracy Demonstration [DFM001:OME	3 # 2060-0566 Expires 3/31/2009]	
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DATA REQUIRED IN CELL D27 DATA REQUIRED IN CELL D28 DATA REQUIRED IN CELL D29 DATA REQUIRED IN CELL D30 DATA REQUIRED IN CELL D31 DATA REQUIRED IN CELL D32		Laboratory Test Identification Number	
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DATA REQUIRED IN CELL D29 DATA REQUIRED IN CELL D30 DATA REQUIRED IN CELL D31 DATA REQUIRED IN CELL D32		Laboratory Test Identification Number	
DATA REQUIRED IN CELL D30 DATA REQUIRED IN CELL D31 DATA REQUIRED IN CELL D32	DATA REQUIRED IN CELL D27	Laboratory Test Identification Number	
DATA REQUIRED IN CELL D31 DATA REQUIRED IN CELL D32	DATA REQUIRED IN CELL D27 DATA REQUIRED IN CELL D28	Laboratory Test Identification Number	
DATA REQUIRED IN CELL D32	DATA REQUIRED IN CELL D27 DATA REQUIRED IN CELL D28 DATA REQUIRED IN CELL D29	Laboratory Test Identification Number	
	DATA REQUIRED IN CELL D27 DATA REQUIRED IN CELL D28 DATA REQUIRED IN CELL D29 DATA REQUIRED IN CELL D30	Laboratory Test Identification Number	
	DATA REQUIRED IN CELL D27 DATA REQUIRED IN CELL D28 DATA REQUIRED IN CELL D29 DATA REQUIRED IN CELL D30 DATA REQUIRED IN CELL D31	Laboratory Test Identification Number	

DATA REQUIRED IN CELL D34
DATA REQUIRED IN CELL D35

arithmetic average of a continuous series of at least 10 tests vent yellow 124 standard in the range of 4 to 10 milligrams per ARV) of that standard by more than 0.05 milligrams per liter. own chemical interferences.

<u>ig/l</u>		
<u>andard</u>		
D DATA MISSING		
ED DATA MISSING		
		Concentration QC Check on ARV
		ARV TOO LOW IN
		CONCENTRATION
ED DATA MISSING		
Time (hh:mm:ss am/pm)	Test Result (mg/l)	Data Entry QC Check on Test Result
		DATA REQUIRED IN CELL J26
		DATA REQUIRED IN CELL J27
		DATA REQUIRED IN CELL J28
		DATA REQUIRED IN CELL J29
		DATA REQUIRED IN CELL J30
		DATA REQUIRED IN CELL J31
		DATA REQUIRED IN CELL J32
		DATA REQUIRED IN CELL J33

DATA REQUIRED IN CELL J34
DATA REQUIRED IN CELL J35

Fuel Marker Solvent Yellow 124 Precision Demonstration [DFM001:OMB

Test Method	
Name of Method:	Visible Spectrophotometer
Organization ID No.(as in ASTM D XXXX-XX):	ASTM D XXXX-XX
Laboratory Identification	
1	USEPA National and Vehicle Fuels Emissi
Laboratory Street Address:	2565 Plymouth Road, Mailcode AATSG
Laboratory City:	Ann Arbor
Laboratory State:	Michigan
Laboratory Zip code:	48105
Laboratory Contact Person:	Joe Sopata
Laboratory Contact Phone Number:	202-343-9034
Laboratory Contact Facsimile Number:	202-343-2801
Laboratory Contact E-mail Address:	sopata.joe@epa.gov

Confidential Business Information Claim. A company may assert a business confidentiality claim covering the information contained in this submission. If no such claim is made the information may be made available to the public by EPA without further notice. All questions of confidentiality will be handled pursuant to 40 CFR Part 2. Is confidentiality claimed for the information in this submission? (Note: Please answer by typing "Yes" or "No" in the adjacent cell.)

Fuel Marker Solvent Yellow 124 Precision Criterion - a standard deviation less than 0.1 results of a minimum of 20 repeat tests made over 20 days on samples taken from a single diesel fuel which meets the applicable industry consensus and federal regulatory specifical solvent yellow 124 at a concentration in the range of 0.10 to 8 milligrams per liter. The 20 sequential record of the analyses and no omissions. A lab facility may exclude a given sar for a valid reason under good laboratory practices and it maintains records regarding the s excluding them.

Is fuel marker solvent yellow 124 Precision Criterion Met?	PASSED		
standard deviation		<u>0.06</u>	
Laboratory Test Identification Number	Date	Time	Test Result (mg/l)
########	10/26/2006	8:00 AM	4.000
########	10/27/2006	8:01 AM	4.030
########	10/28/2006	8:20 AM	3.999
########	10/29/2006	8:23 AM	3.998
########	10/30/2006	9:00 AM	3.905
########	11/1/2006	9:10 AM	4.040
########	11/2/2006	9:20 AM	4.101
########	11/3/2006	9:30 AM	4.000
########	11/5/2006	9:40 AM	4.000
########	11/6/2006	9:50 AM	4.100
########	11/7/2006	10:00 AM	4.009
#######	11/8/2006	10:10 AM	4.080
########	11/9/2006	10:20 AM	4.101
########	11/10/2006	10:30 AM	3.987
#######	11/11/2006	10:40 AM	3.995

########	11/12/2006	10:50 AM	4.005
########	11/13/2006	11:00 AM	3.901
########	11/14/2006	11:10 AM	4.101
########	11/15/2006	11:20 AM	4.009
#######	11/16/2006	11:30 AM	4.090

ons Laboratory/OAR No

.0 milligrams per liter, computed from the homogenous commercially available tions and which contains the fuel marker results must be a series of tests with a nple or test result only if the exclusion is ample and test results and the reason for

Data Entry QC Check on Test Result						
OK						
OK						
OK						
OK						
OK						
OK						
OK						
ОК						
OK						
OK						
ОК						
ОК						
OK						
OK						
OK						

OK
OK
OK
OK
OK

Fuel Marker Solvent Yellow 124 Accuracy Demonstration [DFM001:OMB # 2060-0566 Expires 3/31/2009]

Test Method						
Name of Method:	d: Visible Spectrophotometer					
Organization ID No.(as in ASTM D XXXX-XX):	ASTM D XXXX-XX					
Laboratory Identification						
Laboratory Name:	USEPA National and Vehicle Fuels Emissions Laboratory/OAR					
	2565 Plymouth Road, Mailcode AATSG					
Laboratory City:	Ann Arbor					
Laboratory State:	Michigan					
Laboratory Zip code:	48105					
Laboratory Contact Person:	Joe Sopata					
Laboratory Contact Phone Number	202-343-9034					
Laboratory Contact Facsimile Number	202-343-2801					
Laboratory Contact E-mail Address	sopata.joe@epa.gov					
Confidential Business Information Claim. A company may assert a business confidentiality claim covering the information contained in this submission. If						

Confidential Business Information Claim. A company may assert a business confidentiality claim covering the information contained in this submission. If no such claim is made the information may be made available to the public by EPA without further notice. All questions of confidentiality will be handled pursuant to 40 CFR Part 2. Is confidentiality claimed for the information in this submission? (Note: Please answer by typing "Yes" or "No" in the adjacent cell)

No

0.10 to 1 milligrams per liter Accuracy Criterion - the arithmetic average of a continuous series of at least 10 tests performed on a commercially available fuel marker solvent yellow 124 standard in the range of 0.10 to 1 milligrams per liter shall not differ from the accepted reference value (ARV) of that standard by more than 0.05 milligrams per liter. Individual test results shall be compensated for any known chemical interferences.

Accuracy Criterion for 0.10-1 mg/l				
<u>fuel marker solvent yellov</u>				
ls 0.10-1 mg/l fuel marker solvent yellow 124 Accuracy Criterion Met?	PASSED		<u>D</u>	
Arithmetic Average (mg/l)	0.50			
Name of Standard Vendor	United Color Manufacturing			
Lot Identification Number of Standard	FMSY124101006			Concentration QC Check on ARV
Accepted Reference Value (ARV) of standard (mg/l)	0.5			ок
Difference between Arithmetic Average and ARV of Standard	0.0011			
Laboratory Test Identification Number	Date	Time	Test Result (mg/l)	Data Entry QC Check on Test Result
########	1/13/2005	8:00 AM	0.499	OK
########	1/13/2005	8:30 AM	0.489	OK
#########	1/13/2005	9:00 AM	0.498	OK
########	1/13/2005	9:30 AM	0.500	OK
########	1/13/2005	10:00 AM	0.510	OK
########	1/13/2005	10:30 AM	0.520	OK
########	1/13/2005	11:00 AM	0.488	OK
########	1/13/2005	11:30 AM	0.495	OK
########	1/13/2005	12:00 PM	0.511	OK
#########	1/13/2005	12:30 PM	0.501	OK

4 to 10 milligrams per liter Accuracy Criterion - the arithmetic average of a continuous series of at least 10 tests performed on a commercially available fuel marker solvent yellow 124 standard in the range of 4 to 10 milligrams per liter shall not differ from the accepted reference value (ARV) of that standard by more than 0.05 milligrams per liter. Individual test results shall be compensated for any known chemical interferences.

Accuracy C				
<u>fuel marker sol</u>				
Is 4-10 mg/l fuel marker solvent yellow 124 Accuracy Criterion Met?		PASSE	<u>D</u>	
Arithmetic Average (ppm)	8.02			
Vendor Name of Standard	United Color Manufacturing			
Lot Identification Number of Standard	FMSY124101008			Concentration QC Check on ARV
Accepted Reference Value (ARV) of Standard (mg/l)	8			ОК
Difference between Arithmetic Average and ARV of Standard		0.0153		
Laboratory Test Identification Number	Date	Time	Test Result (mg/l)	Data Entry QC Check on Test Result
#########	1/14/2005	8:00 AM	7.950	OK
#########	1/14/2005	8:30 AM	7.957	OK
########	1/14/2005	9:00 AM	7.888	OK
########	1/14/2005	9:30 AM	8.002	OK
#########	1/14/2005	10:00 AM	8.004	OK
#########	1/14/2005	10:30 AM	8.123	OK
########	1/14/2005	11:00 AM	8.200	OK
#########	1/14/2005	11:30 AM	8.005	OK
########	1/14/2005	12:00 PM	8.101	OK
#########	1/14/2005	12:30 PM	7 923	OK