		-		· ·	
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 con covering the information contained in this subm made available to the public by EPA without fur handled pursuant to 40 CFR Part 2. Is confide (Note: Please answer by typing "Yes" or "No" in	mpany may assert a bu hission. If no such clair rther notice. All question ntiality claimed for the in the adjacent cell.)	usiness confidentiali n is made the inforn ons of confidentiality information in this su	ty claim nation may be / will be ubmission?		
<b>Fuel Marker Solvent Yellow 124 Precision C</b> of a minimum of 20 repeat tests made over 20 meets the applicable industry consensus and fe concentration in the range of 0.10 to 8 milligran and no omissions. A lab facility may exclude a practices and it maintains records regarding the	riterion - a standard d days on samples taker ederal regulatory speci ns per liter. The 20 res given sample or test re e sample and test resu	eviation less than 0. In from a single homo fications and which sults must be a serie esult only if the exclu lts and the reason fo	10 milligrams pe ogeneous commo contains the fuel es of tests with a usion is for a vali or excluding then	r liter, computed from the results ercially available diesel fuel which marker solvent yellow 124 at a sequential record of the analyses d reason under good laboratory n.	
Is fuel marker solvent yellow 124 Precision	REOUI	RED DATA MISSIN	G		
Criterion Met?	n Met?				
standard deviation	REQUI	RED DATA MISSIN	<u>G</u>		
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	

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

		DATA REQUIRED IN CELL D20
		DATA REQUIRED IN CELL D21
		DATA REQUIRED IN CELL D22
		DATA REQUIRED IN CELL D23
		DATA REQUIRED IN CELL D24
		DATA REQUIRED IN CELL D25
		DATA REQUIRED IN CELL D26
		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
		DATA REQUIRED IN CELL D33
		DATA REQUIRED IN CELL D34
		DATA REQUIRED IN CELL D35
		DATA REQUIRED IN CELL D36
		DATA REQUIRED IN CELL D37
		DATA REQUIRED IN CELL D38
		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:	0
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 adjac

**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 milliq accepted reference value (ARV) of that standard by more than 0.05 milligrams per liter. Indiv for any known chemical interferences.

Accuracy Criterion for 0.10-1 mg/l						
fuel marker solvent yellow 124 standard						
Is 0.10-1 mg/l fuel marker solvent yellow 124 Accuracy Criterion Met? REQUIRED DATA MISSING						
Arithmetic Average (mg/l) <b>REQUIRED DATA MISSING</b>						
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					
Laboratory Test Identification Number	Date Time Tes (mm/dd/yyyy) (hh:mm:ss Res am/pm) (mg					

# Accuracy Demonstration [DFM001:OMB # 2060-0566 Expires 3/31/2009]

laim covering the information contained in of confidentiality will be handled pursuant cent cell.)	this submist to 40 CFR I	sion. If no such claim is made the Part 2. Is confidentiality claimed for	
eries of at least 10 tests performed on a grams per liter shall not differ from the idual test results shall be compensated <b>4 to 10 milligrams per liter Accuracy Criterion</b> - the performed on a commercially available fuel marker solve liter shall not differ from the accepted reference value (Individual test results shall be compensated for any known).			
nuuai lest results shall be compensaleu	li Ir	ter shall not differ from the accepted ndividual test results shall be comper	reference value ( nsated for any kno
		ter shall not differ from the accepted ndividual test results shall be comper <u>Accuracy Crit</u>	reference value ( isated for any kno eerion for 4-10 m
		ter shall not differ from the accepted ndividual test results shall be comper <u>Accuracy Crit</u> <u>fuel marker solve</u>	reference value ( isated for any kno cerion for 4-10 m nt yellow 124 sta
		ter shall not differ from the accepted ndividual test results shall be comper <u>Accuracy Crit</u> <u>fuel marker solve</u> s 4-10 mg/l fuel marker solvent rellow 124 Accuracy Criterion Met?	reference value ( hsated for any known rerion for 4-10 m nt yellow 124 sta REQUIRE
	             	ter shall not differ from the accepted ndividual test results shall be comper <u>Accuracy Crit</u> <u>fuel marker solve</u> s 4-10 mg/l fuel marker solvent <u>rellow 124 Accuracy Criterion Met?</u> Arithmetic Average (ppm)	reference value ( hsated for any known erion for 4-10 m nt yellow 124 sta REQUIRE REQUIRE
		ter shall not differ from the accepted ndividual test results shall be comper <u>Accuracy Crit</u> <u>fuel marker solve</u> s 4-10 mg/l fuel marker solvent rellow 124 Accuracy Criterion Met? Arithmetic Average (ppm) Name of Standard Vendor	reference value ( hsated for any known rerion for 4-10 m nt yellow 124 sta REQUIRE REQUIRE
Concentration QC Check on ARV		ter shall not differ from the accepted ndividual test results shall be comper <u>Accuracy Crit</u> <u>fuel marker solvent</u> <u>s 4-10 mg/l fuel marker solvent</u> <u>rellow 124 Accuracy Criterion Met?</u> Arithmetic Average (ppm) Name of Standard Vendor Lot Identification Number of Standard	reference value ( hsated for any known erion for 4-10 m nt yellow 124 sta REQUIRE REQUIRE
Concentration QC Check on ARV ARV TOO LOW IN CONCENTRATION	11  1 	ter shall not differ from the accepted ndividual test results shall be comper <u>Accuracy Crit</u> <u>fuel marker solvent</u> <u>rellow 124 Accuracy Criterion Met?</u> Arithmetic Average (ppm) Name of Standard Vendor Lot Identification Number of Standard Accepted Reference Value (ARV) of Standard (mg/l)	reference value ( hsated for any known eerion for 4-10 m nt yellow 124 sta REQUIRE REQUIRE
Concentration QC Check on ARV ARV TOO LOW IN CONCENTRATION		ter shall not differ from the accepted ndividual test results shall be comper Accuracy Crit fuel marker solvent rellow 124 Accuracy Criterion Met? Arithmetic Average (ppm) Name of Standard Vendor Name of Standard Vendor ot Identification Number of Standard Accepted Reference Value (ARV) of Standard (mg/l) Difference between Arithmetic Average and ARV of Standard	reference value ( isated for any known isated for <u>4-10 m int yellow 124 sta</u> REQUIRE  REQUIRE  REQUIRE  REQUIRE
Concentration QC Check on ARV ARV TOO LOW IN CONCENTRATION Data Entry QC Check on Test Result		ter shall not differ from the accepted ndividual test results shall be comper <u>Accuracy Crit</u> <u>fuel marker solven</u> <u>s 4-10 mg/l fuel marker solvent</u> <u>rellow 124 Accuracy Criterion Met?</u> Arithmetic Average (ppm) 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	reference value ( hsated for any known rerion for 4-10 m nt yellow 124 sta REQUIRE REQUIRE REQUIRE Date (mm/dd/yyyy)
Concentration QC Check on ARV ARV TOO LOW IN CONCENTRATION Data Entry QC Check on Test Result DATA REQUIRED IN CELL D26		ter shall not differ from the accepted ndividual test results shall be comper Accuracy Crit fuel marker solvent s 4-10 mg/l fuel marker solvent rellow 124 Accuracy Criterion Met? Arithmetic Average (ppm) Name of Standard Vendor ot Identification Number of Standard Accepted Reference Value (ARV) of Standard (mg/l) Difference between Arithmetic Average and ARV of Standard aboratory Test Identification Number	reference value ( Insated for any known int yellow 124 sta REQUIRE REQUIRE REQUIRE Date (mm/dd/yyyy)
Concentration QC Check on ARV ARV TOO LOW IN CONCENTRATION Data Entry QC Check on Test Result DATA REQUIRED IN CELL D26 DATA REQUIRED IN CELL D27		ter shall not differ from the accepted ndividual test results shall be comper <u>Accuracy Crit</u> <u>fuel marker solven</u> <u>s 4-10 mg/l fuel marker solvent</u> <u>rellow 124 Accuracy Criterion Met?</u> Arithmetic Average (ppm) 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	reference value ( Insated for any known int yellow 124 sta REQUIRE REQUIRE REQUIRE Date (mm/dd/yyyy)
Concentration QC Check on ARV ARV TOO LOW IN CONCENTRATION Data Entry QC Check on Test Result DATA REQUIRED IN CELL D26 DATA REQUIRED IN CELL D27 DATA REQUIRED IN CELL D28 DATA REQUIRED IN CELL D29		ter shall not differ from the accepted ndividual test results shall be comper Accuracy Criti fuel marker solvent s 4-10 mg/l fuel marker solvent rellow 124 Accuracy Criterion Met? Arithmetic Average (ppm) Name of Standard Vendor ot Identification Number of Standard Accepted Reference Value (ARV) of Standard (mg/l) Difference between Arithmetic Average and ARV of Standard aboratory Test Identification Number	reference value ( Insated for any known int yellow 124 sta  REQUIRE  REQUIRE  Date (mm/dd/yyyy)
Concentration QC Check on ARV ARV TOO LOW IN CONCENTRATION Data Entry QC Check on Test Result DATA REQUIRED IN CELL D26 DATA REQUIRED IN CELL D27 DATA REQUIRED IN CELL D28 DATA REQUIRED IN CELL D29 DATA REQUIRED IN CELL D30		ter shall not differ from the accepted ndividual test results shall be comper <u>Accuracy Crit</u> <u>fuel marker solvent</u> <u>s 4-10 mg/l fuel marker solvent</u> <u>rellow 124 Accuracy Criterion Met?</u> Arithmetic Average (ppm) 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	reference value ( hsated for any known retrion for 4-10 m nt yellow 124 sta REQUIRE REQUIRE Date (mm/dd/yyyy)
Concentration QC Check on ARV ARV TOO LOW IN CONCENTRATION Data Entry QC Check on Test Result DATA REQUIRED IN CELL D26 DATA REQUIRED IN CELL D27 DATA REQUIRED IN CELL D28 DATA REQUIRED IN CELL D29 DATA REQUIRED IN CELL D29 DATA REQUIRED IN CELL D31		ter shall not differ from the accepted ndividual test results shall be comper Accuracy Crit fuel marker solvent s 4-10 mg/l fuel marker solvent rellow 124 Accuracy Criterion Met? Arithmetic Average (ppm) Name of Standard Vendor ot Identification Number of Standard Accepted Reference Value (ARV) of Standard (mg/l) Difference between Arithmetic Average and ARV of Standard aboratory Test Identification Number	reference value ( Insated for any known int yellow 124 sta  REQUIRE  REQUIRE  Date (mm/dd/yyyy)
Concentration QC Check on ARV ARV TOO LOW IN CONCENTRATION Data Entry QC Check on Test Result DATA REQUIRED IN CELL D26 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		ter shall not differ from the accepted ndividual test results shall be comper Accuracy Crit fuel marker solvent rellow 124 Accuracy Criterion Met? Arithmetic Average (ppm) Name of Standard Vendor Arithmetic Average (ppm) 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 aboratory Test Identification Number	reference value ( isated for any known int yellow 124 sta REQUIRE REQUIRE Date (mm/dd/yyyy)

# Office of Transporation and Air Quality May, 2007

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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>g/l</u> andard		
D DATA MIS	<u>SSING</u>	
ED DATA MISS	<u>SING</u>	
		Concentration QC Check on ARV
		ARV TOO LOW IN CONCENTRATION
ED DATA MISS	<u>SING</u>	
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	r					
Name of Method:	Visible Spectro	photometer				
Organization ID No.(as in ASTM D XXXX-XX):	ASTM D XXXX-XX					
Laboratory Identification						
Laboratory Name:	USEPA Nationa	al and Vehicle	e Fuels Emissi			
Laboratory Street Address:	2565 Plymouth	Road, Mailco	de AATSG			
Laboratory City:	Ann Arbor					
Laboratory State:	Michigan					
Laboratory Contact Porson:	48105					
Laboratory Contact Phone Number:	202-242-0024					
Laboratory Contact Facsimile Number:	202-343-9034					
Laboratory Contact Facsimie Number.	202-343-2001	2 001				
	<u>copata.joc@cp</u>	<u>a.gov</u>				
<ul> <li>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 specificar 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</li> </ul>						
for a valid reason under good laboratory practices and it maintains records regarding the s excluding them.          Is fuel marker solvent yellow 124 Precision       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

### 2060-0566 Expires 3/31/2009]

ons Laboratory/OAR

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

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

ОК
OK
OK
OK
ОК

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

Test Method						
Name of Method:	I: 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					
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.)

**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				
fuel marker solvent yellov	]			
Is 0.10-1 mg/l fuel marker solvent yellow 124 Accuracy Criterion Met?	PASSED			
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	ОК
##########	1/13/2005	8:30 AM	0.489	ОК
#######################################	1/13/2005	9:00 AM	0.498	ОК
#######################################	1/13/2005	9:30 AM	0.500	ОК
#######################################	1/13/2005	10:00 AM	0.510	ОК
#######################################	1/13/2005	10:30 AM	0.520	ОК
###########	1/13/2005	11:00 AM	0.488	ОК
###########	1/13/2005	11:30 AM	0.495	ОК
#########	1/13/2005	12:00 PM	0.511	ОК
###########	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 Criterion for 4-10 mg/l				
fuel marker solvent yellow 124 standard				
Is 4-10 mg/l fuel marker solvent yellow 124 Accuracy Criterion Met?		PASSE	D	
Arithmetic Average (ppm)	<u>8.02</u>			
Vendor Name of Standard	United	d Color Man	ufacturing	
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	ОК
#########	1/14/2005	8:30 AM	7.957	ОК
#########	1/14/2005	9:00 AM	7.888	ОК
#########	1/14/2005	9:30 AM	8.002	ОК
##########	1/14/2005	10:00 AM	8.004	ОК
#########	1/14/2005	10:30 AM	8.123	ОК
##########	1/14/2005	11:00 AM	8.200	ОК
##########	1/14/2005	11:30 AM	8.005	OK
##########	1/14/2005	12:00 PM	8.101	ОК
##########	1/14/2005	12:30 PM	7.923	OK