



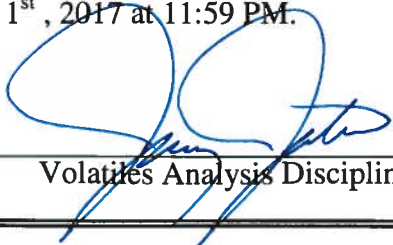
Idaho State Police Forensic Services

CERTIFICATE OF ANALYSIS/APPROVAL

The Idaho State Police Forensic Services (ISPFS) hereby certifies and approves Alcohol Simulator Solution **Lot Number 15802** (a product manufactured by REPCO Marketing, Inc.) to be used to conduct performance verification checks within the State of Idaho in accordance with the analytical methods, policies and/or procedures promulgated by the Department governing breath alcohol examinations. ISPFS also approves of the manufacturer of this solution (REPCO Marketing, Inc.) to provide Alcohol Simulator Solution **Lot Number 15802** in the State of Idaho. This lot has a target value of 0.080 with a range of 0.072 to 0.088 grams of ethyl alcohol/210 liters of vapor.

The expiration date for this lot number is on September 1st, 2017 at 11:59 PM.

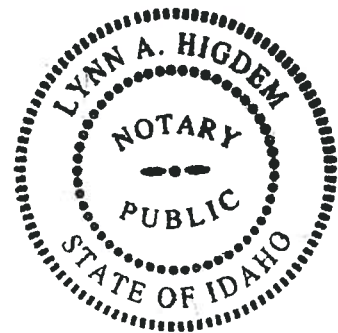
9-29-15
Date


Volatiles Analysis Discipline Leader

STATE OF IDAHO)
) ss.
County of Kootenai)

On this 29th day of Sept., in the year 2015, before me, Lynn A. Higdem, a notary public, Jeremy Johnston personally appeared, known to me to be the person whose name is subscribed to the within instrument as a Forensic Scientist for the Idaho State Police Forensic Services, and acknowledged to me that he executed the same as such Scientist.

Lynn A. Higdem Notary Public
My Commission Expires: 9/8/2016



Raw data from analysis: LOT #15802

				Raw	Average		
Analyst: JJ	Bottle #458	sample #1	a	0.098	0.0977	overall mean: 0.0977	
			b	0.0975			
		sample #2	a	0.0979	0.0977		
			b	0.0975			
JJ	bottle #624	sample #3	a	0.0981	0.0976		
			b	0.0971			
		sample #4	a	0.0979	0.0975		
			b	0.0972			
Analyst: NB	Bottle #221	sample #1	a	0.0964	0.0940	overall mean: 0.0950	
			b	0.0917			
		sample #2	a	0.0973	0.0952		
			b	0.0931			
NB	bottle #695	sample #3	a	0.0975	0.0954		
			b	0.0933			
		sample #4	a	0.0972	0.0952		
			b	0.0932			

average of all raw data: **0.09630625**

alcohol content conversion with 1.23: **0.0783**
 with 1.21: 0.07959

Target value from provider:
 0.0961 +/- 3% range 0.09898
 0.09322
 0.08 +/- 3% range 0.0824
 0.0776

CERTIFICATE OF ANALYSIS

MANUFACTURER AND SUPPLIER: RepCo Marketing, Inc.

LOT NUMBER: 15802

EXPIRATION DATE: September 1, 2017 at 11:59 p.m.

RepCo Marketing, Inc. certifies the following:

RepCo Marketing, Inc. manufactured, tested and supplied Lot Number 15802 of Alcohol Certified Solution for simulators. Random samples of said lot number were analyzed by an independent laboratory utilizing a gas chromatograph and found to contain .0961 gms/dl +/-0.003 gms/dl wt/vol ethanol (95% Confidence).

The alcohol and distilled water used in the solution were found to be free of any interfering substance.

This solution will produce a vapor alcohol value of .080 +/-3% gms/210L Breath when heated to 34 Degrees Celsius +/-0.2 Degrees Celsius in a simulator (95% Confidence).

The date of manufacture for this lot number is September 2, 2015
The expiration date for this lot number is September 1, 2017
at 11:59 p.m.

This document is a true representation of the original Certificate of Analysis.



Cecil B. Garner, President
RepCo Marketing, Inc.

RepCo Marketing, Inc.3101-188 Stonybrook Drive
Raleigh, NC 27604**Invoice**

Date	Invoice #
9/14/2015	10614

Bill To	Ship To
Idaho State Police Forensic/Coeur D'Alene Attn: Jeremy Johnston 615 W. Wilbur Ave. Suite B Coeur D' Alene, ID 83815	Idaho State Police Forensics Attn: Jeremy Johnston 615 W. Wilbur Ave. Suite B Coeur D' Alene, ID 83815

P.O. Number	Terms	Ship	Via	F.O.B.
EVALUATION	No Charge	9/14/2015	FedEx Gro...	Raleigh

Qty Ordered	B/O	Qty Shipped	Item Code	Description	Price Each	Amount
2			CSS-080	.080 BAC Simulator Solution Lot# 15802- EVALUATION	0.00	0.00

Total					\$0.00
Payments/Credits					\$0.00
Balance Due					\$0.00

**RepCo Marketing Inc., 3101-188 Stonybrook Dr.,
Raleigh, NC 27604 (919) 876-5480; Fax (919) 876-5467
Toll Free 888-828-0227**

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: 15802-458

Analysis Date(s): 23 Sep 2015

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0980	0.0975	0.0005	0.0977	0.0977	
(g/100cc)	0.0979	0.0975	0.0004	0.0977		

Analysis Method

Refer to Volatiles Analytical Method 1.0

Instrument Information

Instrument method is stored centrally.

Refer to Instrument Method: Alcohol.m
Hamilton Auto-Dilutor Serial Number: MD-96GF641

Reporting of Results

Uncertainty of Measurement (UM%): 5.00%

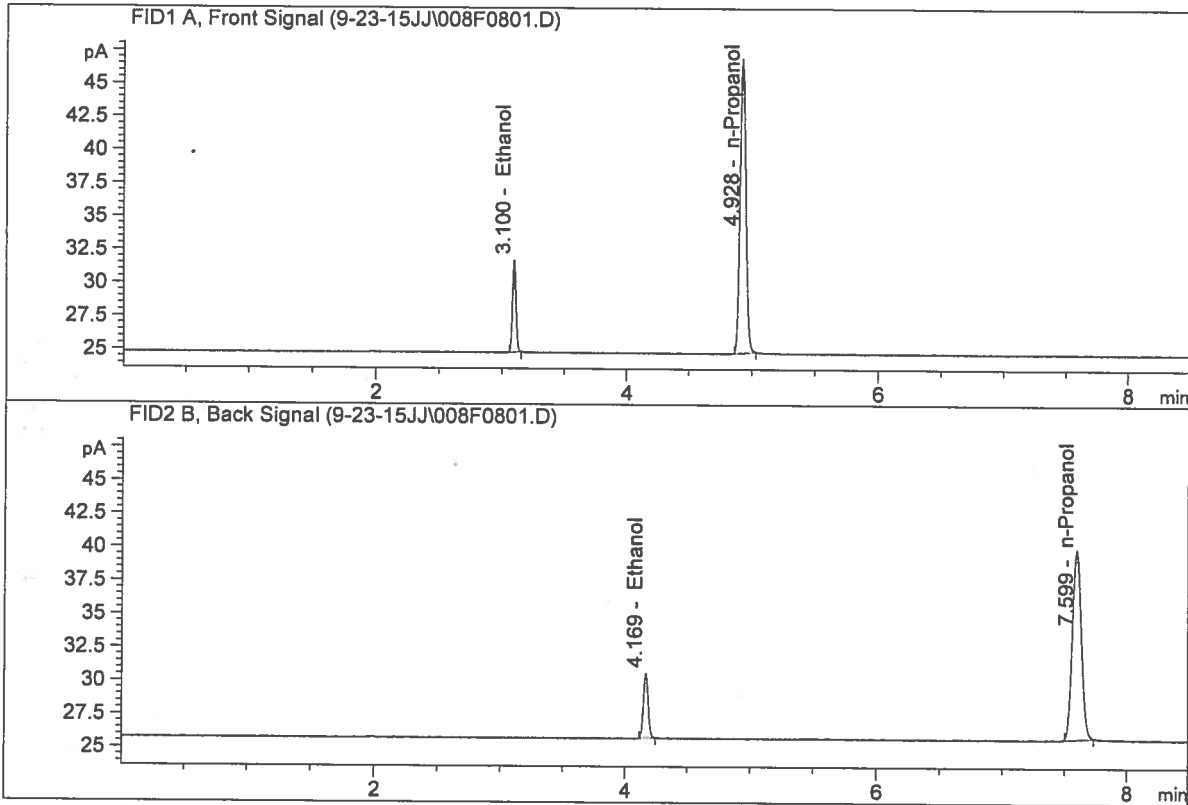
Overall Mean (g/100cc)	Low	High	5% of Mean
0.097	0.092	0.102	0.005

	Reported Result	
	0.097	

Calibration and control data are stored centrally.

ISP Forensic Services Blood Alcohol Report

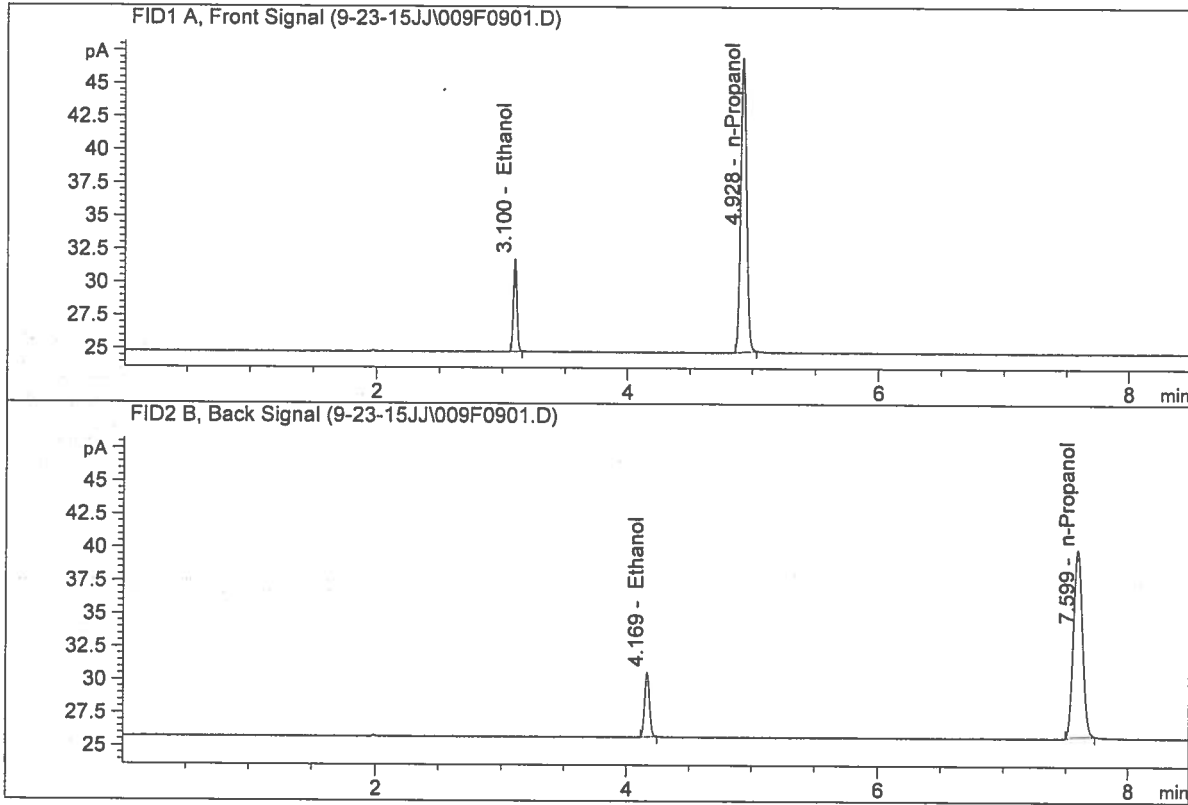
Sample Name : 15802-458-A
 Laboratory : Coeur d' Alene
 Injection Date : Sep 23, 2015
 Method : ALCOHOL.M
 Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	13.38455	0.0980	g/100cc
2.	Ethanol	Column 2:	13.26786	0.0975	g/100cc
3.	n-Propanol	Column 1:	72.03137	1.0000	g/100cc
4.	n-Propanol	Column 2:	71.27601	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : 15802-458-B
 Laboratory : Coeur d' Alene
 Injection Date : Sep 23, 2015
 Method : ALCOHOL.M
 Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	13.47927	0.0979	g/100cc
2.	Ethanol	Column 2:	13.34046	0.0975	g/100cc
3.	n-Propanol	Column 1:	72.58597	1.0000	g/100cc
4.	n-Propanol	Column 2:	71.66347	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: 15802-624

Analysis Date(s): 23 Sep 2015

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0981	0.0971	0.0010	0.0976	0.0975	
(g/100cc)	0.0979	0.0972	0.0007	0.0975		

Analysis Method

Refer to Volatiles Analytical Method 1.0

Instrument Information

Instrument method is stored centrally.

Refer to Instrument Method: Alcohol.m
Hamilton Auto-Dilutor Serial Number: MD-96GF641

Reporting of Results

Uncertainty of Measurement (UM%): 5.00%

Overall Mean (g/100cc)	Low	High	5% of Mean
0.097	0.092	0.102	0.005

	Reported Result	
	0.097	

Calibration and control data are stored centrally.

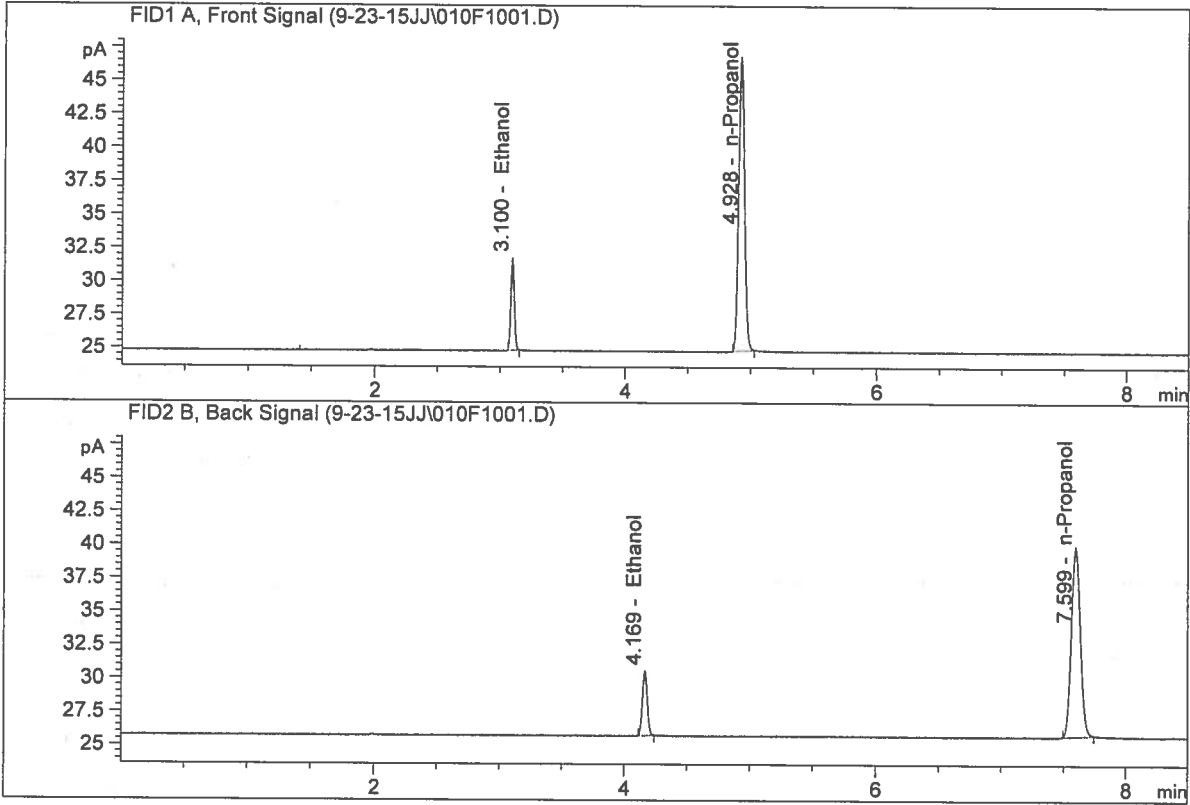
Issued: 01/16/2014

Volatiles BAC Calculation Spreadsheet Rev 3

Issuing Authority: Quality Manager

ISP Forensic Services Blood Alcohol Report

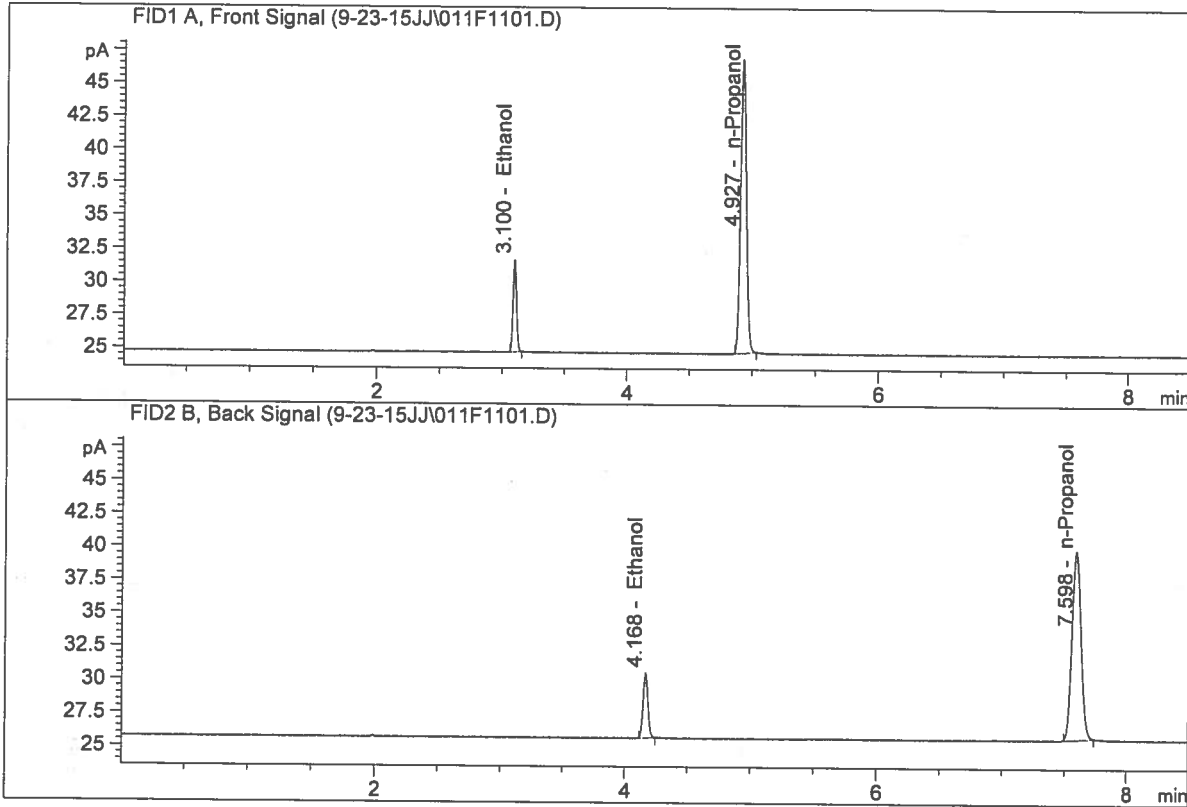
Sample Name : 15802-624-A
 Laboratory : Coeur d' Alene
 Injection Date : Sep 23, 2015
 Method : ALCOHOL.M
 Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	13.36838	0.0981	g/100cc
2.	Ethanol	Column 2:	13.21359	0.0971	g/100cc
3.	n-Propanol	Column 1:	71.89792	1.0000	g/100cc
4.	n-Propanol	Column 2:	71.27048	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : 15802-624-B
 Laboratory : Coeur d' Alene
 Injection Date : Sep 23, 2015
 Method : ALCOHOL.M
 Acq. Instrument: CN10742044-IT00725005



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	13.44441	0.0979	g/100cc
2.	Ethanol	Column 2:	13.30550	0.0972	g/100cc
3.	n-Propanol	Column 1:	72.40925	1.0000	g/100cc
4.	n-Propanol	Column 2:	71.69685	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: RepCo 0.08 15802 #221

Analysis Date(s): 25 Sep 2015

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0964	0.0917	0.0047	0.0940	0.0946	
(g/100cc)	0.0973	0.0931	0.0042	0.0952		

Analysis Method

Refer to Volatiles Analytical Method 1.0

Instrument Information

Instrument method is stored centrally.

Refer to Instrument Method: ALCOHOL.M
Hamilton Auto-Dilutor Serial Number:
MD96BC1382/MD94AM10010

Reporting of Results

Uncertainty of Measurement (UM%): 5.00%

Overall Mean (g/100cc)	Low	High	5% of Mean
0.094	0.089	0.099	0.005

	Reported Result 0.094	
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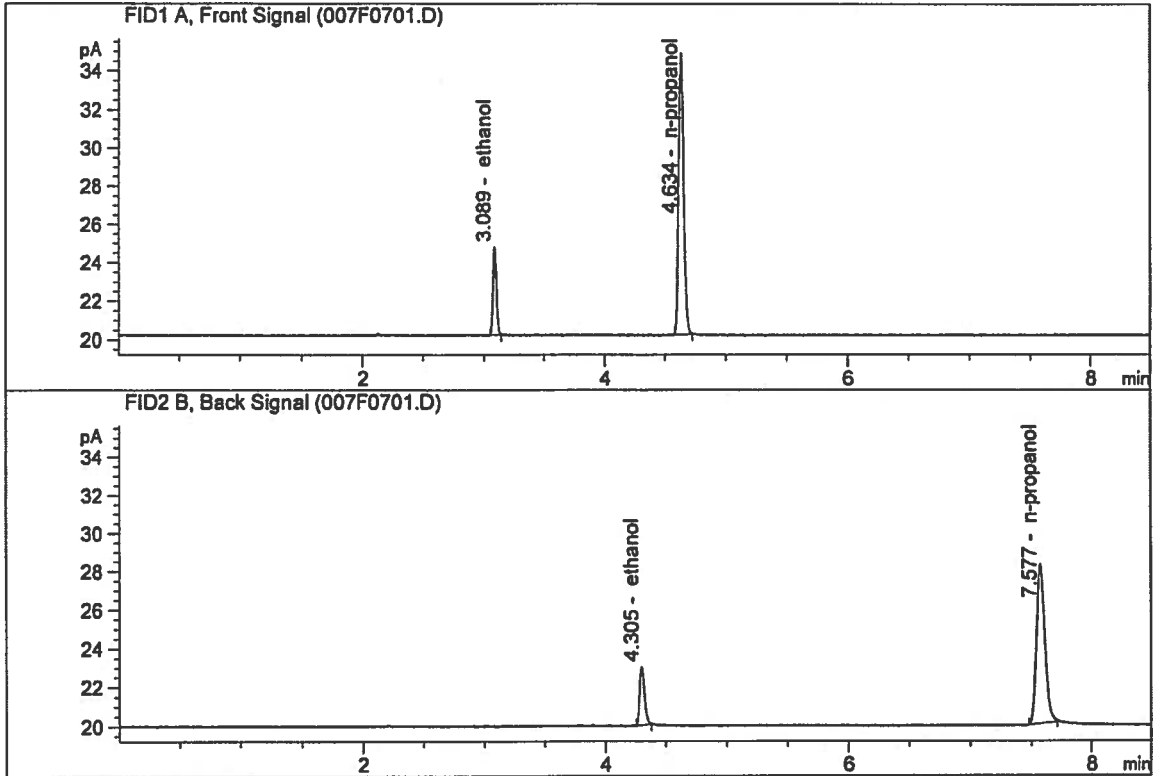
Calibration and control data are stored centrally.

Analyst: NB

Page 2

ISP Forensic Services Blood Alcohol Report

Sample Name : RepCo 0.08 15802 #221-A
 Laboratory : Meridian
 Injection Date : Sep 25, 2015
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167

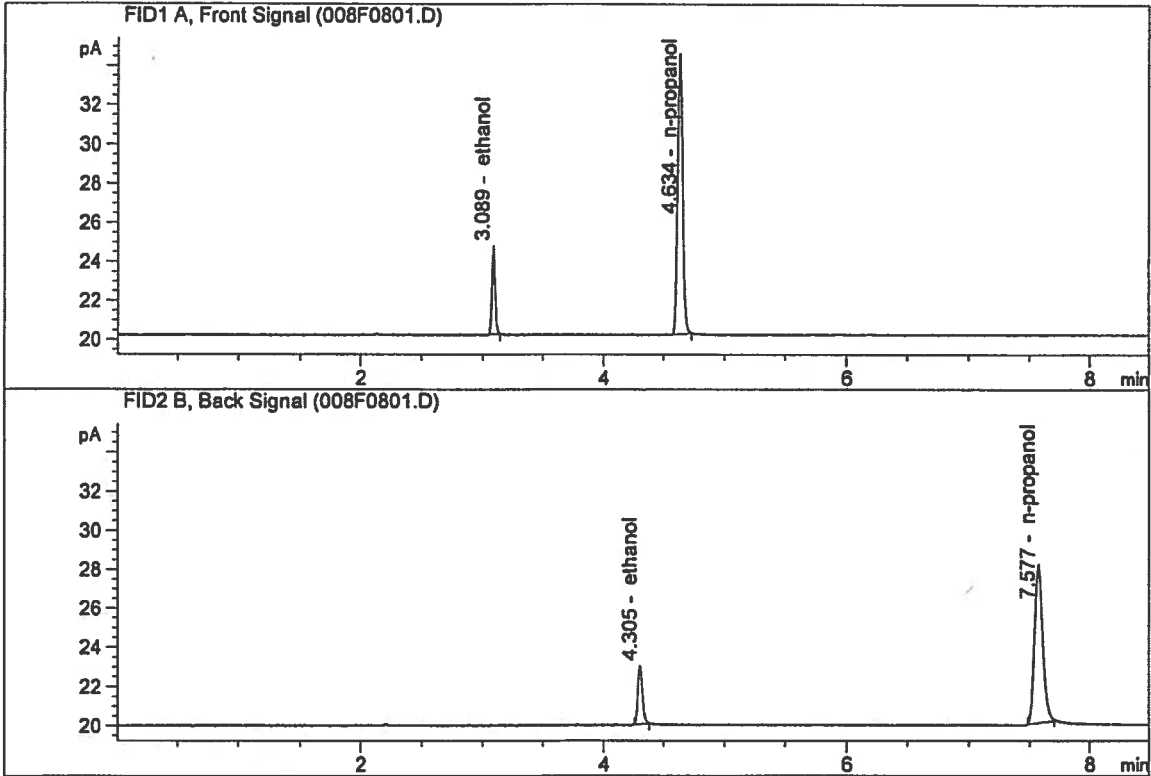


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	8.44486	0.0964	g/100cc
2.	Ethanol	Column 2:	8.22548	0.0917	g/100cc
3.	n-Propanol	Column 1:	41.99076	1.0000	g/100cc
4.	n-Propanol	Column 2:	40.68283	1.0000	g/100cc

NB

ISP Forensic Services Blood Alcohol Report

Sample Name : RepCo 0.08 15802 #221-B
 Laboratory : Meridian
 Injection Date : Sep 25, 2015
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	8.37266	0.0973	g/100cc
2.	Ethanol	Column 2:	8.12321	0.0931	g/100cc
3.	n-Propanol	Column 1:	41.25925	1.0000	g/100cc
4.	n-Propanol	Column 2:	39.53501	1.0000	g/100cc

NB

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: RepCo 0.08 15802 #695

Analysis Date(s): 25 Sep 2015

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0975	0.0933	0.0042	0.0954	0.0953	
(g/100cc)	0.0972	0.0932	0.0040	0.0952		

Analysis Method

Refer to Volatiles Analytical Method 1.0

Instrument Information

Instrument method is stored centrally.

Refer to Instrument Method: ALCOHOL.M
Hamilton Auto-Dilutor Serial Number:
MD96BC1382/MD94AM10010

Reporting of Results

Uncertainty of Measurement (UM%): 5.00%

Overall Mean (g/100cc)	Low	High	5% of Mean
0.095	0.090	0.100	0.005

	Reported Result	
	0.095	

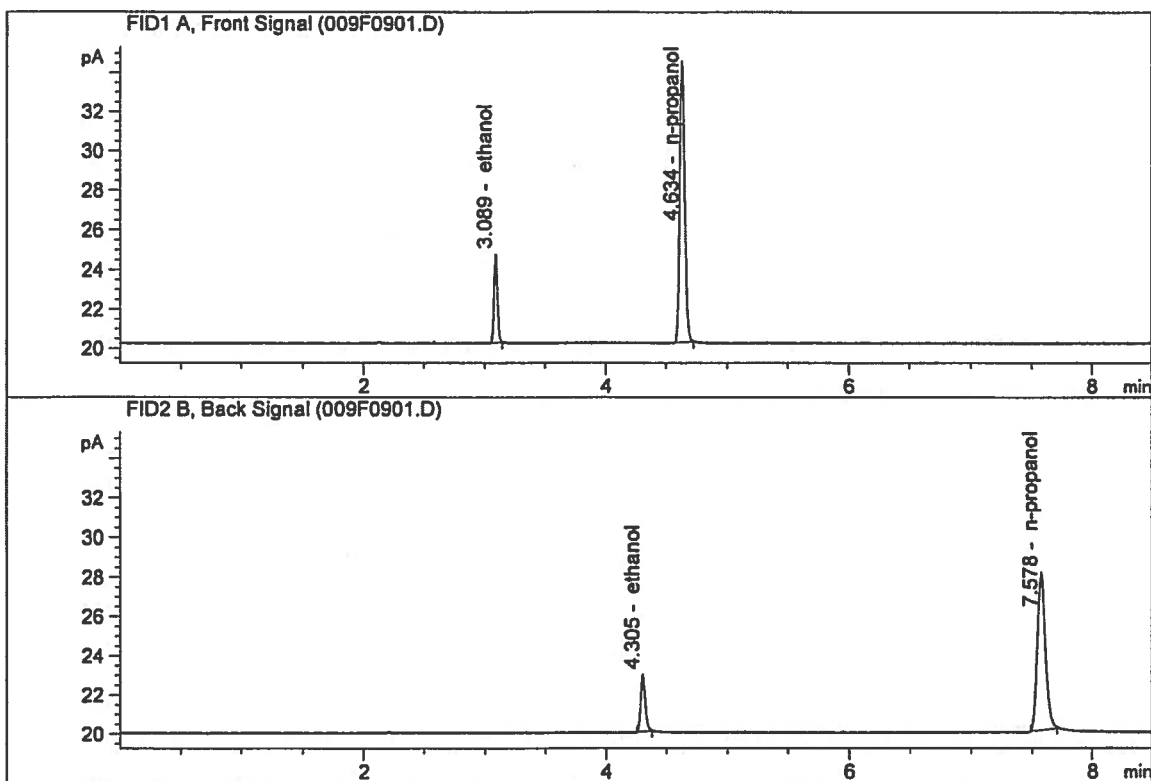
Calibration and control data are stored centrally.

Analyst: MB

Page 2

ISP Forensic Services Blood Alcohol Report

Sample Name : RepCo 0.08 15802 #695-A
 Laboratory : Meridian
 Injection Date : Sep 25, 2015
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167

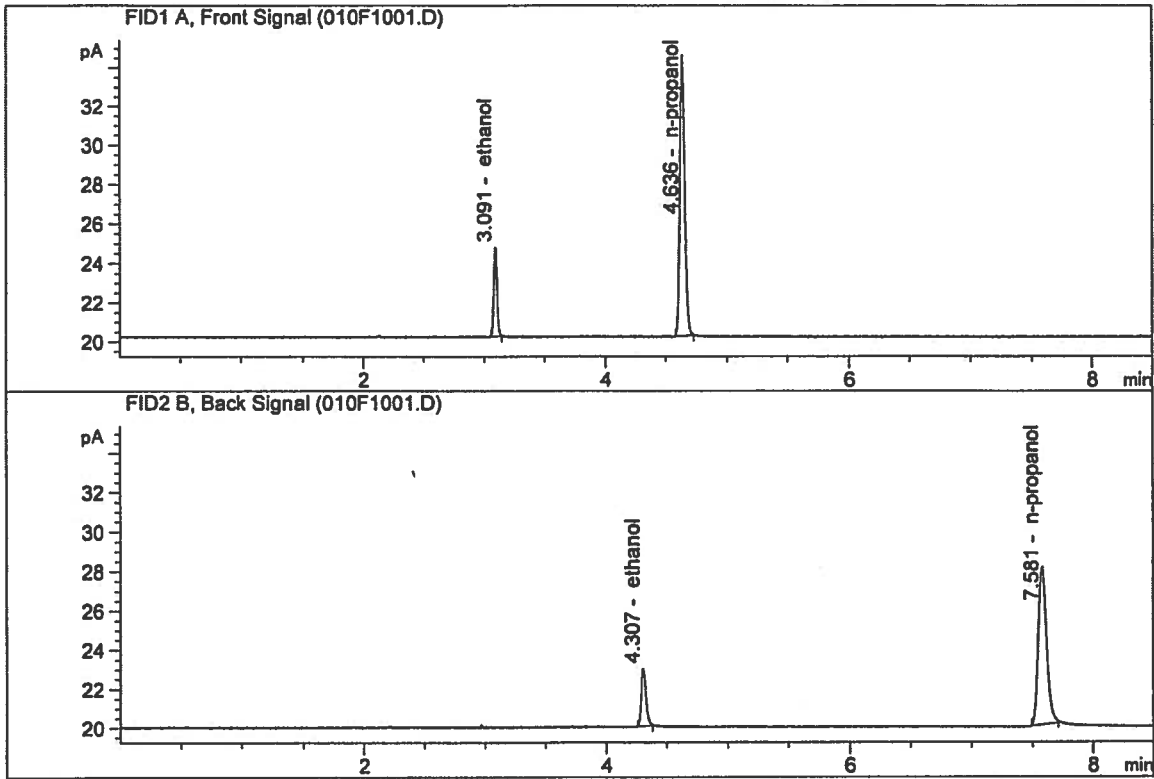


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	8.31487	0.0975	g/100cc
2.	Ethanol	Column 2:	8.06690	0.0933	g/100cc
3.	n-Propanol	Column 1:	40.90820	1.0000	g/100cc
4.	n-Propanol	Column 2:	39.19809	1.0000	g/100cc

NB

ISP Forensic Services Blood Alcohol Report

Sample Name : .RepCo 0.08 15802 #695-B
 Laboratory : Meridian
 Injection Date : Sep 25, 2015
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	8.35164	0.0972	g/100cc
2.	Ethanol	Column 2:	8.11695	0.0932	g/100cc
3.	n-Propanol	Column 1:	41.21540	1.0000	g/100cc
4.	n-Propanol	Column 2:	39.47133	1.0000	g/100cc

NB



DATA PACKAGE

DATA RESOURCES INC
1410 ST ANDREWS RD - STE 200
COLUMBIA SC 29210
BUS: 803-561-0331
FAX: 803-561-0536

PROJECT : ETHANOL ASSAY -- LOT #15802

CREATED ON : 9/11/2015

ORDER ID: : **150911X101**

REPORT TO : Repco Marketing
Cecil Garner
3101-188 Stonybrook Drive
Raleigh NC 27604

CUSTOMER ID : REPCO
JOB ID :

EPA REGULATION : NON REGULATORY
EPA COMPLIANCE : NON COMPLIANT

THANK YOU FOR CHOOSING DATA RESOURCES, INC. AS YOUR SOURCE FOR QUALITY LABORATORY SERVICES. DATA RESOURCES, INC. STRIVES TO PROVIDE UNPARALLELED SERVICE AND SUPPORT REGARDING YOUR SAMPLE ANALYSIS REQUIREMENTS. DATA RESOURCES, INC. PROVIDES TECHNICAL EXPERTISE, PROJECT MANAGEMENT SKILLS, CUSTOMER SUPPORT, AND ACCURATE TEST RESULTS.

PLEASE TAKE A MOMENT TO REVIEW THE FOLLOWING DATA PACKAGE.

ON THE FOLLOWING PAGES YOU WILL FIND GENERAL REFERENCE INFORMATION ABOUT THE DATA PRESENTED IN THIS ANALYSIS REPORT. THIS INFORMATION AND MORE CAN BE FOUND ON OUR WEBSITE AT [HTTP://DATARESOURCESINC.COM](http://DATARESOURCESINC.COM)

Bruce E Watt
Laboratory Director, Data Resources Inc - Columbia



DATA PACKAGE

DATA RESOURCES INC
1410 ST ANDREWS RD - STE 200
COLUMBIA SC 29210
BUS: 803-561-0331
FAX: 803-561-0536

PROJECT : ETHANOL ASSAY – LOT #15802

CREATED ON : 9/11/2015

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Cecil Garner
3101-188 Stonybrook Drive
Raleigh NC 27604

ORDER ID: : **150911X101**

CUSTOMER ID : REPCO

JOB ID :

EPA REGULATION : NON REGULATORY

EPA COMPLIANCE : NON COMPLIANT

FOR ORGANIZATIONAL PURPOSES THE FOLLOWING DATA PACKAGE
IS DIVIDED INTO SECTIONS AS LISTED BELOW:

PAGE	SECTION
i	COVER PAGE
ii	INDEX PAGE (This page)
1	NARRATIVE
3	SAMPLE CONTAINER MANIFEST
4	ANALYTICAL DATA – PERFORMED BY DATA RESOURCES
10	CHAIN-OF-CUSTODY and SAMPLE RECEIPT RECORDS
11	TOTAL PAGES (Not including COVER and INDEX pages)



DATA PACKAGE

DATA RESOURCES INC
1410 ST ANDREWS RD - STE 200
COLUMBIA SC 29210
BUS: 803-561-0331
FAX: 803-561-0536

NARRATIVE SECTION:

Certificate of Analysis
Certified Reference Standard - NIST Traceable

Ethanol-100
Ethyl Alcohol

ISO GUIDE 34
ISO/IEC 17025
ISO 13485
ISO 9001
GM/PL

Catalog Number: E-031
Solution Lot: FN050312-01
Expiration Date: May 2017
Diluent: Water
Volume per Ampoule: 1.2 mL
Storage: Refrigerate. Do not freeze.
Intended Use: For R&D/ analytical purposes only. Not suitable for human or animal consumption.

- Expiration Date has been established through real time stability studies and applies to the ampoules stored unopened at the recommended storage condition.
- Ampoules are overfilled to ensure a minimum 1.2 mL volume fill. We advise laboratories to use measured volumes of this standard solution before diluting to the desired concentration. The standard should be used immediately after opening to avoid concentration changes due to evaporation.

Component	Solution Chromatographic Purity	Certified Concentration
Ethanol	100%	100.0 ± 0.4 mg/dL
<ul style="list-style-type: none"> • Uncertainty of the concentration, expressed in terms of volume, is an expanded uncertainty in accordance with ISO 17025 and ISO Guide 34 at the 95% confidence interval using a coverage factor of k=2 and has been calculated by statistical analysis of our production methods applicable to ethanol reference standards and incorporates uncertainty of the purity factor, material density and mass measurement. The dispensing process is sufficiently controlled as to not be a significant contributor to uncertainty calculations and is, therefore, excluded. Solution stability is established through real time stability studies and is, therefore, excluded. • When expressed in percentage terms, the relative standard uncertainty of the concentration is 0.175% and the relative expanded uncertainty is 0.35% at the 95% confidence interval (k=2). • The purity factor (PF) mass balance measurement equation is used to calculate the amount of ethanol required to achieve an accurate concentration of the solution standard, accounting for both purity and residual water content. • Purity factor has been established through independent certification of the neat analyte to ISO 17025 standards – See page 2. • Solution purity is verified post ampouling and demonstrates no contamination or degradation has occurred. 		

Traceability to SI through NIST:

- This standard has been prepared and certified under the ISO Guide 34 and ISO/IEC 17025 standards and meets the requirements of a Certified Reference Material as defined by ISO.
- Gravimetrically prepared using qualified balances calibrated semi-annually by Mettler Toledo to ISO 17025 requirements and using NIST traceable weights. Qualification of each balance includes the assignment of a minimum weighing by Mettler Toledo taking into consideration the balance and installed environmental conditions to ensure each weighing complies with USP tolerances of NMT 0.1% relative uncertainty.
- Balance calibration adjustments are performed weekly utilizing the balance's internal adjustment mechanism and with NIST traceable weights.
- Balance calibration is verified prior to each use and is performed utilizing NIST traceable weights. Weigh tapes from the balance calibration are included in the production batch record for this standard. Production data package available upon request.
- Fill volume is gravimetrically verified throughout the dispensing process using qualified balances calibrated with NIST traceable weights.
- Weight sets used for all balance calibrations are calibrated externally by an ISO 17025 accredited calibration laboratory to NIST standards.
- Concentration of this standard has been analytically verified against a NIST SRM and a Control using a validated method. See page 2.

Cerilliant certifies that this standard meets the specifications stated in this certificate and warrants this product to meet the stated acceptance criteria through the expiration date. Warranty applies to ampoules stored unopened and stored under the recommended storage conditions. Warranty and expiry do not extend to solutions into which this product has been incorporated. Establishment of shelf life of all such products is the responsibility of the user.



Lara Sparks

Lara Sparks, Quality Assurance Director

May 31, 2012
Date

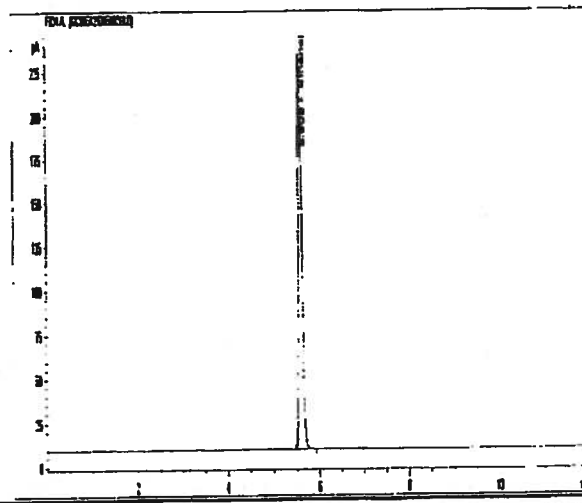
Analytical Verification of Solution Standard Concentration and Batch Homogeneity:

Solution Standard	Lot Number	Results compared to NIST SRM Lot 2894 (mg/dL)	Results compared to Control (% Difference)	Homogeneity (ampoule to ampoule consistency) %RSD
New Lot	FN050312-01	98.49	0.78%	0.75%
Prior Lot	FN111711-01	98.70	0.58%	1.45%
Acceptance Criteria		±2%	±2%	≤2%

- Concentration is calculated as the average of multiple analyses conducted using a validated Headspace GC/FID method. The validated GC/HS method has been demonstrated to adequately detect and quantitate ethanol concentrations ranging from 5 to 600 mg/dL. Relative standard uncertainty of the analysis is 1.675% and includes both uncertainty of the analytical method and uncertainty of the NIST SRM concentration.
- The Control is independently prepared from a different lot of neat ethanol to ensure no bias in the analysis and independently qualified against a NIST SRM.
- Homogeneity is ensured through rigorous production process controls statistically analyzed to evaluate risk and verified by analysis. The %RSD of samples pulled from across the lot using a stratified random sampling plan demonstrates ampoule to ampoule consistency or homogeneity of the New Lot.
- The %RSD of the Prior Lot represents system suitability on the date of analysis. Triplicate injections of the Prior Lot are bracketed at the beginning and end of the sequence. %RSD criteria ensures proper system performance throughout the sequence.
- All instruments used for certification of the neat materials and verification of the solution concentration and homogeneity are fully qualified through an Installation Qualification and an Operational Qualification which is repeated annually. System suitability is performed daily with rigorous acceptance criteria to ensure the system continues to perform within the validated parameters.

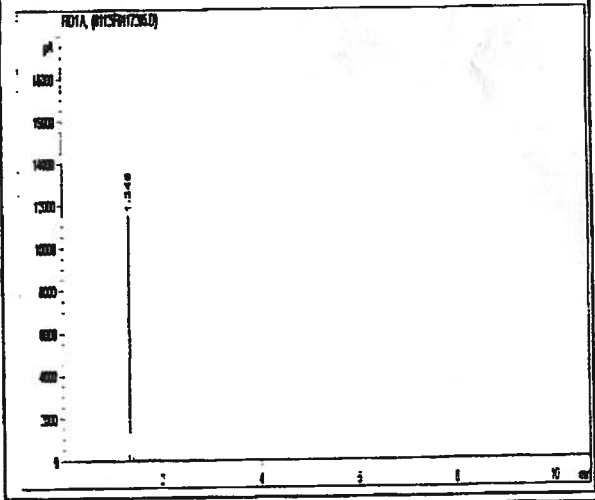
Solution Standard Assay Parameters

Analysis Method: GC/FID Headspace
 Column: DB-ALCl 30 m x 0.53 mm ID, 3.0 µm film thickness
 Temp Program: 40°C hold for 12 min
 Injector Temp: 200°C
 Detector Temp: 250°C



Neat Material Analysis

Purity by GC/FID Analysis: 100.0%
 Water Content by Karl Fischer: 0.10%
 Purity Factor: 99.90%
The purity factor (PF) mass balance measurement equation is used to calculate the amount of ethanol required to achieve an accurate concentration of the solution standard, accounting for both purity and residual water content.





SAMPLE CONTAINER MANIFEST

DATA RESOURCES INC
1410 ST ANDREWS RD - STE 200
COLUMBIA SC 29210
BUS: 803-561-0331
FAX: 803-561-0536

PROJECT : ETHANOL ASSAY -- LOT #15802

CREATED ON : 9/11/2015

ORDER ID: : **150911X101**

REPORT TO : Repco Marketing
Cecil Garner
3101-188 Stonybrook Drive
Raleigh NC 27604

CUSTOMER ID : REPCO
JOB ID : 72

EPA REGULATION : NON REGULATORY
EPA COMPLIANCE : NON COMPLIANT

SITE

BTL 1

CONTAINER ID	COLLECTION TIMESTAMP	QTY	MATRIX	C/G	CONTAINER: DESCRIPTION TYPE	SIZE	PRESERVATIVE	HOLDING
0	2015-09-03 00:00:00.000	1	LIQUID	GRAB	Plastic	500 mL	NONE	

SITE

BTL 2

CONTAINER ID	COLLECTION TIMESTAMP	QTY	MATRIX	C/G	CONTAINER: DESCRIPTION TYPE	SIZE	PRESERVATIVE	HOLDING
0	2015-09-03 00:00:00.000	1	LIQUID	GRAB	Plastic	500 mL	NONE	

SITE

BTL 3

CONTAINER ID	COLLECTION TIMESTAMP	QTY	MATRIX	C/G	CONTAINER: DESCRIPTION TYPE	SIZE	PRESERVATIVE	HOLDING
0	2015-09-03 00:00:00.000	1	LIQUID	GRAB	Plastic	500 mL	NONE	

SITE

INHOUSE @ 100 mg/dL

CONTAINER ID	COLLECTION TIMESTAMP	QTY	MATRIX	C/G	CONTAINER: DESCRIPTION TYPE	SIZE	PRESERVATIVE	HOLDING
0	2015-09-03 00:00:00.000	1	LIQUID	GRAB	Plastic	500 mL	NONE	



DATA PACKAGE

DATA RESOURCES INC
 1410 ST ANDREWS RD - STE 200
 COLUMBIA SC 29210
 BUS: 803-561-0331
 FAX: 803-561-0536

PERFORMED AT: DR - COLUMBIA
 CERTIFICATION: SCDHEC: 40569

PROJECT : ETHANOL ASSAY – LOT #15802

CREATED ON : 9/11/2015

ORDER ID: : **150911X101**

REPORT TO : Repco Marketing
 Cecil Garner
 3101-188 Stonybrook Drive
 Raleigh NC 27604

CUSTOMER ID : REPCO
 JOB ID : 72

EPA REGULATION : NON REGULATORY
 EPA COMPLIANCE : NON COMPLIANT

SITE	MATRIX	C/G	COLLECTION TIMESTAMP	CONTAINER ID	QTY	CONTAINER: DESCRIPTION		
						TYPE	SIZE	PRESERVATIVE HOLDING
BTL 1	LIQUID	GRAB	2015-09-03 00:00:00.000		1	Plastic	500 mL	NONE

TEST	PRIORITY	METHOD
ETHANOL ASSAY	Normal	CUSTOM

PARAMETER	RESULT	QUAL	LIMIT HI	PQL	DILUTON	UNIT
ANALYSIS TIMESTAMP [AGED]			LIMIT LO	MDL	INSTRUMENT	ANALYST
ETHANOL REPLICATE 1	95.374		NA		1	mg/dL
09/10/2015 00:00 AM [0.00 days]			NA			bewatt
ETHANOL REPLICATE 2	96.671		NA		1	mg/dL
09/10/2015 00:00 AM [0.00 days]			NA			bewatt
ETHANOL REPLICATE 3	96.409		NA		1	mg/dL
09/10/2015 00:00 AM [0.00 days]			NA			bewatt
ETHANOL AVERAGE	96.151		NA		1	mg/dL
09/10/2015 00:00 AM [0.00 days]			NA			bewatt



DATA PACKAGE

DATA RESOURCES INC
 1410 ST ANDREWS RD - STE 200
 COLUMBIA SC 29210
 BUS: 803-561-0331
 FAX: 803-561-0536

PERFORMED AT: DR - COLUMBIA
 CERTIFICATION: SCDHEC: 40569

PROJECT : ETHANOL ASSAY -- LOT #15802

CREATED ON : 9/11/2015

ORDER ID: : **150911X101**

REPORT TO : Repco Marketing
 Cecil Gamer
 3101-188 Stonybrook Drive
 Raleigh NC 27604

CUSTOMER ID : REPCO
 JOB ID : 72

EPA REGULATION : NON REGULATORY
 EPA COMPLIANCE : NON COMPLIANT

SITE	MATRIX	C/G	COLLECTION TIMESTAMP	CONTAINER ID	QTY	CONTAINER: DESCRIPTION		
						TYPE	SIZE	PRESERVATIVE HOLDING
BTL 2	LIQUID	GRAB	2015-09-03 00:00:00.000		1	Plastic	500 mL	NONE

TEST	PARAMETER	RESULT	QUAL	PRIORITY		METHOD		DILUTON INSTRUMENT	UNIT ANALYST
				Normal	CUSTOM	PQL	MDL		
ETHANOL ASSAY	ANALYSIS TIMESTAMP [AGED]			LIMIT HI	LIMIT LO	PQL	MDL		
	ETHANOL REPLICATE 1	96.841		NA	NA			1	mg/dL bewatt
	09/10/2015 00:00 AM [0.00 days]								
	ETHANOL REPLICATE 2	95.996		NA	NA			1	mg/dL bewatt
	09/10/2015 00:00 AM [0.00 days]								
	ETHANOL REPLICATE 3	96.487		NA	NA			1	mg/dL bewatt
	09/10/2015 00:00 AM [0.00 days]								
	ETHANOL AVERAGE	96.441		NA	NA			1	mg/dL bewatt
	09/10/2015 00:00 AM [0.00 days]								



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PROJECT : ETHANOL ASSAY -- LOT #15802

CREATED ON : 9/11/2015

ORDER ID: : **150911X101**

REPORT TO : Repco Marketing
 Cecil Garner
 3101-188 Stonybrook Drive
 Raleigh NC 27604

CUSTOMER ID : REPCO
 JOB ID : 72

EPA REGULATION : NON REGULATORY
 EPA COMPLIANCE : NON COMPLIANT

SITE	MATRIX	C/G	COLLECTION TIMESTAMP	CONTAINER ID	QTY	CONTAINER: DESCRIPTION		
						TYPE	SIZE	PRESERVATIVE HOLDING
BTL 3	LIQUID	GRAB	2015-09-03 00:00:00.000		1	Plastic	500 mL	NONE

TEST	PARAMETER	RESULT	QUAL	PRIORITY		METHOD		DILUTON	UNIT
				LIMIT HI	LIMIT LO	PQL	MDL		
ETHANOL ASSAY	ANALYSIS TIMESTAMP [AGED]			Normal		CUSTOM			
	ETHANOL REPLICATE 1	96.783		NA			1		mg/dL
	09/10/2015 00:00 AM [0.00 days]			NA					bewatt
	ETHANOL REPLICATE 2	95.257		NA			1		mg/dL
	09/10/2015 00:00 AM [0.00 days]			NA					bewatt
	ETHANOL REPLICATE 3	95.517		NA			1		mg/dL
	09/10/2015 00:00 AM [0.00 days]			NA					bewatt
	ETHANOL AVERAGE	95.852		NA			1		mg/dL
	09/10/2015 00:00 AM [0.00 days]			NA					bewatt



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PROJECT : ETHANOL ASSAY -- LOT #15802

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EPA REGULATION : NON REGULATORY
 EPA COMPLIANCE : NON COMPLIANT

SITE	MATRIX	C/G	COLLECTION TIMESTAMP	CONTAINER ID	QTY	CONTAINER: DESCRIPTION		
						TYPE	SIZE	PRESERVATIVE HOLDING
INHOUSE @ 100 mg/dL	LIQUID	GRAB	2015-09-03 00:00:00.000		1	Plastic	500 mL	NONE

TEST	PRIORITY	METHOD
ETHANOL ASSAY	Normal	CUSTOM

PARAMETER	RESULT	QUAL	LIMIT HI	PQL	DILUTON	UNIT
ANALYSIS TIMESTAMP [AGED]			LIMIT LO	MDL	INSTRUMENT	ANALYST
ETHANOL REPLICATE 1	98.765		NA		1	mg/dL
09/10/2015 00:00 AM [0.00 days]			NA			bewatt
ETHANOL REPLICATE 2	98.716		NA		1	mg/dL
09/10/2015 00:00 AM [0.00 days]			NA			bewatt
ETHANOL REPLICATE 3	100.203		NA		1	mg/dL
09/10/2015 00:00 AM [0.00 days]			NA			bewatt
ETHANOL AVERAGE	99.228		NA		1	mg/dL
09/10/2015 00:00 AM [0.00 days]			NA			bewatt



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CREATED ON : 9/11/2015

ORDER ID: : **150911X101**

REPORT TO : Repco Marketing
Cecil Garner
3101-188 Stonybrook Drive
Raleigh NC 27604

CUSTOMER ID : REPCO
JOB ID : 72

EPA REGULATION : NON REGULATORY
EPA COMPLIANCE : NON COMPLIANT

JOB COMMENTS:

=> No Evidence of contamination was seen.



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REPORT FIELDS DEFINED:

ANALYSIS or SERVICE PERFORMED = The Requested analysis or service performed.

RESULT = The value or answer acquired from requested analysis or service performed.

BDL (Below Detection Limit) indicates result is below listed RDL.

ND (Not Detected) indicates result is below listed MDL.

< (Less than symbol) indicates that result is lower than value reported

> (Greater than symbol) indicates that result is higher than value reported

UNIT = Unit of measure.

dwb = Identifies result value as Dry Weight Basis.

QUAL = Additional qualification on result [See DATA QUALIFIERS DEFINED section].

RDL = (Reportable Detection Limit) The lowest calibrated result achievable by stated analytical method.

MDL = (Method Detection Limit) The lowest result achievable by stated analytical method.

METHOD = The stated methodology employed for the analysis or service performed.

ANALYSIS D/T = The date and time when analysis or service was performed.

ANALYST LOCATOR= The analyst and location that performed the analysis or service. All work is performed by a division of Data Resources Inc. unless alternate certification number is provided in this field.

PRIORITY = The requested turn-around priority.

DATA QUALIFIERS DEFINED:

C = Analytical result has been confirmed with multiple analyses.

I = Estimated result, result is < RDL but > MDL.

JC = See Job Comments.

J1 = In replicate analyses surrogate recoveries (2 or more for acid fraction, 2 or more for base/neutral fraction, 1 or more for volatile fraction) were out of range but > 10%. The result is an estimated value.

J2 = In replicate analyses surrogate recoveries (2 or more for acid fraction, 2 or more for base/neutral fraction, 1 or more for volatile fraction) were out of range and < 10%. The result is an estimated value.

J3 = In replicate analyses internal standard area counts were out of range. The result is an estimated value.

OH = Holding Time expired prior to analysis

OH2 = Holding Time expired prior to re-analysis. Initial analysis was performed in holding but with estimated results.

M1 = The MS %R is outside acceptable control limits. However, MS/MSD RPD is in acceptable control limits.

2:1 = The BOD reported result failed to meet the Two One Rule.

SC = See Sample Comments.

2-CHLOROETHYLVINYLEETHER -vs- **2-CHLOROETHYLVINYLEETHER NOTED ON ANALYSIS REPORT:

Past studies show that 2-Chloroethylvinylether undergoes hydrolysis when collected in preserved (HCl to pH<2) VOC vials. SCDHEC requires a sampling protocol to involve NON-preserved VOC vials when this parameter is needed. To provide the best quality data for this parameter, DR will perform a separate analysis at an additional cost. Should you request this parameter and only provide preserved VOC vials, the analysis of this parameter will be performed and the parameter identity prefixed with ** to identify this potential issue occurring.

AROCHLOR RESULTS:

Any positive Arochlor result would require analysis for total PCB as decachlorobiphenyl by method 508A (MCL = 0.5 ug/L).

LABORATORY pH, CHLORINE, and TEMPERATURE RESULTS:

If analysis occurs in the lab in excess of 15 minutes of collection, then the result MAY NOT be used for compliance.

ACCESS THIS INFORMATION ONLINE: Go to <http://DataResourcesInc.com> and choose the menu option "CUSTOMER LOGIN"



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SAMPLE RECEIPT RECORDS:
- CHAIN OF CUSTODY
- SAMPLE RECEIPT REVIEW