

Technical Report for

Providence Engineering

Valero-CAMS, Baton Rouge, LA

712-001

Accutest Job Number: JB34954B

Sampling Date: 04/17/13

Report to:

Providence Engineering

kevincalhoun@providenceeng.com

ATTN: Kevin Calhoun

Total number of pages in report: **11**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.



Nancy Cole
Laboratory Director

Client Service contact: Victoria Pushkova 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

Table of Contents

-1-

Section 1: Sample Summary	3
Section 2: Sample Results	4
2.1: JB34954-2: CAMS 101	5
Section 3: Misc. Forms	7
3.1: Chain of Custody	8
3.2: Summa Canister and Flow Controller Log	11



Sample Summary

Providence Engineering

Job No: JB34954B

Valero-CAMS, Baton Rouge, LA

Project No: 712-001

Sample Number	Collected		Matrix			Client Sample ID
	Date	Time By	Received	Code	Type	
JB34954-2	04/17/13	13:00 KH	04/22/13	AIR	Ambient Air Grab	CAMS 101

Sample Results

Report of Analysis

Report of Analysis

Page 1 of 2

Client Sample ID:	CAMS 101	Date Sampled:	04/17/13
Lab Sample ID:	JB34954-2	Date Received:	04/22/13
Matrix:	AIR - Ambient Air Grab Summa ID: LA 2551	Percent Solids:	n/a
Method:	TO-15		
Project:	Valero-CAMS, Baton Rouge, LA		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W33489.D	1	05/01/13	YMH	n/a	n/a	V3W1296
Run #2							

Run #1	Initial Volume
Run #1	400 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone	5.4	0.20	0.069	ppbv		13	0.48	0.16	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.026	ppbv		ND	0.44	0.058	ug/m3
71-43-2	78.11	Benzene	0.27	0.20	0.029	ppbv		0.86	0.64	0.093	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.20	0.031	ppbv		ND	1.3	0.21	ug/m3
75-25-2	252.8	Bromoform	ND	0.20	0.029	ppbv		ND	2.1	0.30	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.024	ppbv		ND	0.78	0.093	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.027	ppbv		ND	0.87	0.12	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.048	ppbv		ND	1.0	0.25	ug/m3
75-15-0	76.14	Carbon disulfide	0.20	0.20	0.024	ppbv		0.62	0.62	0.075	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.040	ppbv		ND	0.92	0.18	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.035	ppbv		ND	0.53	0.092	ug/m3
67-66-3	119.4	Chloroform	ND	0.20	0.026	ppbv		ND	0.98	0.13	ug/m3
74-87-3	50.49	Chloromethane	0.75	0.20	0.055	ppbv		1.5	0.41	0.11	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.035	ppbv		ND	0.63	0.11	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.031	ppbv		ND	1.0	0.16	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.20	0.020	ppbv		ND	1.3	0.13	ug/m3
110-82-7	84.16	Cyclohexane	0.43	0.20	0.050	ppbv		1.5	0.69	0.17	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.019	ppbv		ND	0.81	0.077	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.023	ppbv		ND	0.79	0.091	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.20	0.029	ppbv		ND	1.5	0.22	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.027	ppbv		ND	0.81	0.11	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.034	ppbv		ND	0.92	0.16	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.12	ppbv		ND	0.72	0.43	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.58	0.20	0.024	ppbv		2.9	0.99	0.12	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.20	0.035	ppbv		ND	1.7	0.30	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.027	ppbv		ND	0.79	0.11	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.025	ppbv		ND	0.79	0.099	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.033	ppbv		ND	0.91	0.15	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.20	0.028	ppbv		ND	1.2	0.17	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.20	0.039	ppbv		ND	1.2	0.23	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.20	0.060	ppbv		ND	1.2	0.36	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.024	ppbv		ND	0.91	0.11	ug/m3

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CAMS 101	Date Sampled:	04/17/13
Lab Sample ID:	JB34954-2	Date Received:	04/22/13
Matrix:	AIR - Ambient Air Grab Summa ID: LA 2551	Percent Solids:	n/a
Method:	TO-15		
Project:	Valero-CAMS, Baton Rouge, LA		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	3.8	0.50	0.17	ppbv		7.2	0.94	0.32	ug/m3
100-41-4	106.2	Ethylbenzene	0.13	0.20	0.029	ppbv	J	0.56	0.87	0.13	ug/m3
141-78-6	88	Ethyl Acetate	0.17	0.20	0.13	ppbv	J	0.61	0.72	0.47	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.20	0.028	ppbv		ND	0.98	0.14	ug/m3
76-13-1	187.4	Freon 113	ND	0.20	0.028	ppbv		ND	1.5	0.21	ug/m3
76-14-2	170.9	Freon 114	ND	0.20	0.023	ppbv		ND	1.4	0.16	ug/m3
142-82-5	100.2	Heptane	0.63	0.20	0.028	ppbv		2.6	0.82	0.11	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.20	0.030	ppbv		ND	2.1	0.32	ug/m3
110-54-3	86.17	Hexane	1.8	0.20	0.050	ppbv		6.3	0.70	0.18	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.051	ppbv		ND	0.82	0.21	ug/m3
67-63-0	60.1	Isopropyl Alcohol	0.73	0.20	0.065	ppbv		1.8	0.49	0.16	ug/m3
75-09-2	84.94	Methylene chloride	2.5	0.20	0.055	ppbv		8.7	0.69	0.19	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.68	0.20	0.042	ppbv		2.0	0.59	0.12	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.084	ppbv		ND	0.82	0.34	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.045	ppbv		ND	0.72	0.16	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.038	ppbv		ND	0.82	0.16	ug/m3
115-07-1	42	Propylene	ND	0.50	0.034	ppbv		ND	0.86	0.058	ug/m3
100-42-5	104.1	Styrene	ND	0.20	0.025	ppbv		ND	0.85	0.11	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.20	0.024	ppbv		ND	1.1	0.13	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.20	0.034	ppbv		ND	1.4	0.23	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.20	0.035	ppbv		ND	1.1	0.19	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.20	0.095	ppbv		ND	1.5	0.71	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	0.29	0.20	0.029	ppbv		1.4	0.98	0.14	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	0.11	0.20	0.044	ppbv	J	0.54	0.98	0.22	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	3.2	0.20	0.031	ppbv		15	0.93	0.14	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	0.26	0.20	0.049	ppbv		0.79	0.61	0.15	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.040	0.024	ppbv		ND	0.27	0.16	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.074	ppbv		ND	0.59	0.22	ug/m3
108-88-3	92.14	Toluene	1.2	0.20	0.032	ppbv		4.5	0.75	0.12	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.040	0.036	ppbv		ND	0.21	0.19	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.33	0.20	0.028	ppbv		1.9	1.1	0.16	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.022	ppbv		ND	0.51	0.056	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.054	ppbv		ND	0.70	0.19	ug/m3
	106.2	m,p-Xylene	0.61	0.20	0.058	ppbv		2.6	0.87	0.25	ug/m3
95-47-6	106.2	o-Xylene	0.23	0.20	0.037	ppbv		1.0	0.87	0.16	ug/m3
1330-20-7	106.2	Xylenes (total)	0.84	0.20	0.037	ppbv		3.6	0.87	0.16	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	87%		65-128%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Summa Canister and Flow Controller Log

AKK

CHAIN OF CUSTODY

Air Sampling Field Data Sheet



2235 US Highway 130, Dayton, NJ 08810
 V: 732.329.0200 F: 732.329.3499 www.accutest.com

FED-EX Tracking # 76266132791
 Lab Quote #

Bottle Order Control # JB34954B
 Lab Job #

Client Reporting Information					Project Information					Weather Parameters					Requested Analysis	
Company Name Providence Engr					Project Name Valero Refining					Temperature (Fahrenheit)					Requested Analysis	
Address 1201 Main St					Street 1					Start: Maximum:						
City BR State LA Zip 70802					City Meroux State LA					Stop: Minimum:						
Project Contact Paul Hollis @ providenceengr.com Phone (225) 766-7400 Fax # -7440					Project # 712-001					Atmospheric Pressure (inches of Hg)						
Sampler(s) Name(s) Karen Huson					Client Purchase Order #					Start: Maximum:					0-15	
										Stop: Minimum:						
										Other weather comment:						

Lab Sample #	Field ID / Point of Collection	Air Type		Sampling Equipment Info			Start Sampling Information					Stop Sampling Information				
		Indoor(I) Soil Vap(SV) Ambient(A)		Canister Serial #	Canister Size 6L or 1L	Flow Controller Serial #	Date	Time (24hr clock)	Canister Pressure (“Hg)	Interior Temp (F)	Sampler Init.	Date	Time (24hr clock)	Canister Pressure (“Hg)	Interior Temp (F)	Sampler Init.
-2	CAMS 101	A		H3044	6L	-	4-16	1300	0.02	75	KH	4-17	1300	11.40	75	KH

Turnaround Time (Business days)	Approved By:	Date:	Data Deliverable Information	Comments/Remarks
Standard - 15 Days <input type="checkbox"/> 10 Day <input type="checkbox"/> 6 Day <input type="checkbox"/> 3 Day <input type="checkbox"/> 2 Day <input type="checkbox"/> 1 Day <input type="checkbox"/> Other	_____	_____	All NJDEP TO-15 is mandatory Full T1 <input type="checkbox"/> Comm A <input type="checkbox"/> Comm B <input type="checkbox"/> Reduced T2 <input type="checkbox"/> Full T1 Other: _____	Received at Baton Rouge Service Center

Sample Custody must be documented below each time samples change possession, including courier delivery.					
Retinquished by Laboratory: 1	Date Time:	Received By:	Retinquished By: 2	Date Time:	Received By: 2
Retinquished by: 3	Date Time: 4/23/13 09:30	Received By: [Signature]	Retinquished By: [Signature]	Date Time: 4/18/13 12:05	Received By: [Signature]
Retinquished by: 5	Date Time:	Received By:	Retinquished By: 4	Date Time:	Received By: 4
Custody Seal #					

31
3

2B

X1

Job Change Order: JB34954_5_14_2013

Requested Date: 5/14/2013 **Received Date:** 4/22/2013
Account Name: Providence Engineering **Due Date:** 5/6/2013
Project: Valero-CAMS, Baton Rouge, LA **Deliverable:** COMMB
CSR: vickyp **TAT (Days):** 14

=====
Sample #: JB34954-2 **Change:**
Dept: Please move sample -2 (CAMS 101) to the -A job
Dept: and generate two separate reports.

=====
CAMS 101
=====

JB34954B: Chain of Custody
Page 2 of 3

Above Changes Per: Liz Martin **Date:** 5/14/2013

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service
Page 1 of 1

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB34954 Client: _____ Project: _____
 Date / Time Received: 4/22/2013 Delivery Method: _____ Airbill #s: _____

Cooler Temps (Initial/Adjusted): _____

Cooler Security

- | | |
|---|---|
| <p><u>Y or N</u></p> <p>1. Custody Seals Present: <input checked="" type="checkbox"/> <input type="checkbox"/></p> <p>2. Custody Seals Intact: <input checked="" type="checkbox"/> <input type="checkbox"/></p> | <p><u>Y or N</u></p> <p>3. COC Present: <input checked="" type="checkbox"/> <input type="checkbox"/></p> <p>4. SmpI Dates/Time OK: <input checked="" type="checkbox"/> <input type="checkbox"/></p> |
|---|---|

Cooler Temperature

- Y or N
1. Temp criteria achieved:
2. Cooler temp verification: _____
3. Cooler media: _____
4. No. Coolers: 0

Quality Control Preservation

- | | | | | |
|---------------------------------|-------------------------------------|-----------|-------------------------------------|-------------------------------------|
| | <u>Y</u> | <u>or</u> | <u>N</u> | <u>N/A</u> |
| 1. Trip Blank present / cooler: | <input type="checkbox"/> | | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Trip Blank listed on COC: | <input type="checkbox"/> | | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Samples preserved properly: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> | |
| 4. VOCs headspace free: | <input type="checkbox"/> | | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Sample Integrity - Documentation

- | | | | |
|--|-------------------------------------|-----------|--------------------------|
| | <u>Y</u> | <u>or</u> | <u>N</u> |
| 1. Sample labels present on bottles: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |
| 2. Container labeling complete: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |
| 3. Sample container label / COC agree: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |

Sample Integrity - Condition

- | | | | |
|----------------------------------|-------------------------------------|-----------|--------------------------|
| | <u>Y</u> | <u>or</u> | <u>N</u> |
| 1. Sample recvd within HT: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |
| 2. All containers accounted for: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> |
| 3. Condition of sample: | Intact | | |

Sample Integrity - Instructions

- | | | | | |
|--|-------------------------------------|-----------|-------------------------------------|-------------------------------------|
| | <u>Y</u> | <u>or</u> | <u>N</u> | <u>N/A</u> |
| 1. Analysis requested is clear: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> | |
| 2. Bottles received for unspecified tests: | <input type="checkbox"/> | | <input checked="" type="checkbox"/> | |
| 3. Sufficient volume recvd for analysis: | <input checked="" type="checkbox"/> | | <input type="checkbox"/> | |
| 4. Compositing instructions clear: | <input type="checkbox"/> | | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear: | <input type="checkbox"/> | | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Comments

Summa Canister and Flow Controller Log

Job Number: JB34954B
Account: PROVLABR Providence Engineering
Project: Valero-CAMS, Baton Rouge, LA
Received: 04/22/13

32
3

SUMMA CANISTERS													
Shipping							Receiving						
Summa ID	L	Vac " Hg	Date Out	By	SCC Batch	SCC FileID	Sample Number	Date In	By	Vac " Hg	Pres psig	Final psig	Dil Fact

LA 2551	6	29.4	03/22/13	RC	CP6095	3W32853.D	JB34954-2	04/22/13	YXC	7.5			1
---------	---	------	----------	----	--------	-----------	-----------	----------	-----	-----	--	--	---

Accutest Bottle Order(s):

VP-3/21/2013-20

Prep Date	Room Temp(F)	Bar Pres "Hg
03/22/13	70	29.92