

**Technical Report for**

**Providence Engineering**

Valero-CAMS, Baton Rouge, LA

712-001

Accutest Job Number: JB60380

Sampling Date: 02/15/14

**Report to:**

Providence Engineering

kevincalhoun@providenceeng.com

ATTN: Kevin Calhoun

Total number of pages in report: **9**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program 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, DoD ELAP (L-A-B L2248)

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Test results relate only to samples analyzed.

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## Sample Summary

**Providence Engineering**

**Job No: JB60380**

**Valero-CAMS, Baton Rouge, LA**  
**Project No: 712-001**

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
JB60380-1	02/15/14	13:00 KH	02/24/14	AIR	Ambient Air Grab	CAMS 152

**Sample Results**

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**Report of Analysis**

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## Report of Analysis

Client Sample ID:	CAMS 152	Date Sampled:	02/15/14
Lab Sample ID:	JB60380-1	Date Received:	02/24/14
Matrix:	AIR - Ambient Air Grab Summa ID: A481	Percent Solids:	n/a
Method:	TO-15		
Project:	Valero-CAMS, Baton Rouge, LA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5W3071.D	1	03/05/14	ML	n/a	n/a	V5W121
Run #2							

Run #	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	5.0	0.20	0.034	ppbv	12	0.48	0.081	ug/m3	
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.020	ppbv	ND	0.44	0.044	ug/m3	
71-43-2	78.11	Benzene	0.21	0.20	0.021	ppbv	0.67	0.64	0.067	ug/m3	
75-27-4	163.8	Bromodichloromethane	ND	0.20	0.025	ppbv	ND	1.3	0.17	ug/m3	
75-25-2	252.8	Bromoform	ND	0.20	0.022	ppbv	ND	2.1	0.23	ug/m3	
74-83-9	94.94	Bromomethane	ND	0.20	0.017	ppbv	ND	0.78	0.066	ug/m3	
593-60-2	106.9	Bromoethene	ND	0.20	0.014	ppbv	ND	0.87	0.061	ug/m3	
100-44-7	126	Benzyl Chloride	ND	0.20	0.025	ppbv	ND	1.0	0.13	ug/m3	
75-15-0	76.14	Carbon disulfide	ND	0.20	0.017	ppbv	ND	0.62	0.053	ug/m3	
108-90-7	112.6	Chlorobenzene	ND	0.20	0.025	ppbv	ND	0.92	0.12	ug/m3	
75-00-3	64.52	Chloroethane	ND	0.20	0.020	ppbv	ND	0.53	0.053	ug/m3	
67-66-3	119.4	Chloroform	ND	0.20	0.019	ppbv	ND	0.98	0.093	ug/m3	
74-87-3	50.49	Chloromethane	0.56	0.20	0.034	ppbv	1.2	0.41	0.070	ug/m3	
107-05-1	76.53	3-Chloropropene	ND	0.20	0.028	ppbv	ND	0.63	0.088	ug/m3	
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.020	ppbv	ND	1.0	0.10	ug/m3	
56-23-5	153.8	Carbon tetrachloride	ND	0.20	0.011	ppbv	ND	1.3	0.069	ug/m3	
110-82-7	84.16	Cyclohexane	ND	0.20	0.058	ppbv	ND	0.69	0.20	ug/m3	
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.016	ppbv	ND	0.81	0.065	ug/m3	
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.021	ppbv	ND	0.79	0.083	ug/m3	
106-93-4	187.9	1,2-Dibromoethane	ND	0.20	0.027	ppbv	ND	1.5	0.21	ug/m3	
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.016	ppbv	ND	0.81	0.065	ug/m3	
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.040	ppbv	ND	0.92	0.18	ug/m3	
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.060	ppbv	ND	0.72	0.22	ug/m3	
75-71-8	120.9	Dichlorodifluoromethane	0.49	0.20	0.015	ppbv	2.4	0.99	0.074	ug/m3	
124-48-1	208.3	Dibromochloromethane	ND	0.20	0.029	ppbv	ND	1.7	0.25	ug/m3	
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.015	ppbv	ND	0.79	0.059	ug/m3	
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.028	ppbv	ND	0.79	0.11	ug/m3	
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.019	ppbv	ND	0.91	0.086	ug/m3	
541-73-1	147	m-Dichlorobenzene	ND	0.20	0.025	ppbv	ND	1.2	0.15	ug/m3	
95-50-1	147	o-Dichlorobenzene	ND	0.20	0.029	ppbv	ND	1.2	0.17	ug/m3	
106-46-7	147	p-Dichlorobenzene	ND	0.20	0.022	ppbv	ND	1.2	0.13	ug/m3	
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.021	ppbv	ND	0.91	0.095	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

<b>Client Sample ID:</b>	CAMS 152	<b>Date Sampled:</b>	02/15/14
<b>Lab Sample ID:</b>	JB60380-1	<b>Date Received:</b>	02/24/14
<b>Matrix:</b>	AIR - Ambient Air Grab	<b>Summa ID:</b>	A481
<b>Method:</b>	TO-15	<b>Percent Solids:</b>	n/a
<b>Project:</b>	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	3.4	0.50	0.19	ppbv		6.4	0.94	0.36	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.20	0.020	ppbv		ND	0.87	0.087	ug/m3
141-78-6	88	Ethyl Acetate	0.57	0.20	0.057	ppbv		2.1	0.72	0.21	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.20	0.015	ppbv		ND	0.98	0.074	ug/m3
76-13-1	187.4	Freon 113	0.45	0.20	0.021	ppbv		3.4	1.5	0.16	ug/m3
76-14-2	170.9	Freon 114	ND	0.20	0.021	ppbv		ND	1.4	0.15	ug/m3
142-82-5	100.2	Heptane	ND	0.20	0.020	ppbv		ND	0.82	0.082	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.20	0.063	ppbv		ND	2.1	0.67	ug/m3
110-54-3	86.17	Hexane	0.45	0.20	0.016	ppbv		1.6	0.70	0.056	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.025	ppbv		ND	0.82	0.10	ug/m3
67-63-0	60.1	Isopropyl Alcohol	0.52	0.20	0.039	ppbv		1.3	0.49	0.096	ug/m3
75-09-2	84.94	Methylene chloride	1.0	0.20	0.047	ppbv		3.5	0.69	0.16	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.62	0.20	0.058	ppbv		1.8	0.59	0.17	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.029	ppbv		ND	0.82	0.12	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.017	ppbv		ND	0.72	0.061	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.040	ppbv		ND	0.82	0.16	ug/m3
115-07-1	42	Propylene	ND	0.50	0.031	ppbv		ND	0.86	0.053	ug/m3
100-42-5	104.1	Styrene	ND	0.20	0.020	ppbv		ND	0.85	0.085	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.20	0.016	ppbv		ND	1.1	0.087	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.20	0.030	ppbv		ND	1.4	0.21	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.20	0.031	ppbv		ND	1.1	0.17	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.20	0.079	ppbv		ND	1.5	0.59	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	0.13	0.20	0.017	ppbv	J	0.64	0.98	0.084	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.20	0.015	ppbv		ND	0.98	0.074	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.20	0.021	ppbv		ND	0.93	0.098	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	0.42	0.20	0.044	ppbv		1.3	0.61	0.13	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.040	0.029	ppbv		ND	0.27	0.20	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.045	ppbv		ND	0.59	0.13	ug/m3
108-88-3	92.14	Toluene	0.30	0.20	0.020	ppbv		1.1	0.75	0.075	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	0.10	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.22	0.20	0.014	ppbv		1.2	1.1	0.079	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.017	ppbv		ND	0.51	0.043	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.058	ppbv		ND	0.70	0.20	ug/m3
	106.2	m,p-Xylene	0.12	0.20	0.032	ppbv	J	0.52	0.87	0.14	ug/m3
95-47-6	106.2	o-Xylene	ND	0.20	0.019	ppbv		ND	0.87	0.083	ug/m3
1330-20-7	106.2	Xylenes (total)	0.12	0.20	0.019	ppbv	J	0.52	0.87	0.083	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	100%		65-128%

ND = Not detected      MDL - Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Misc. Forms

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### Custody Documents and Other Forms

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**Includes the following where applicable:**

- Chain of Custody
- Summa Canister and Flow Controller Log

# 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 # 7979-8188-4792  
 Lab Closure # \_\_\_\_\_  
 Bottle Order Control # \_\_\_\_\_  
 Lab Job # JB60380

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Client/Reporting Information		Project Information		Weather Parameters		Requested Analysis	
Company Name: <u>Providence Engr</u>		Project Name: <u>Valero Refining</u>		Temperature (Fahrenheit)			
Address: <u>1201 Main St</u>		Street:		Start: _____ Maximum: _____			
City: <u>Bnl</u> State: <u>LA</u> Zip: <u>70802</u>		City: <u>Meroux</u> State: <u>LA</u>		Stop: _____ Minimum: _____			
Project Contact: <u>paulhollis@providenceeng.com</u>		Project #: <u>712-001</u>		Atmospheric Pressure (Inches of Hg)			
Phone #: <u>225 766-7400</u> Fax #: <u>-7440</u>		Client Purchase Order # _____		Start: _____ Maximum: _____			
Sampler(s) Name(s): <u>Karen Hudson</u>				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	Flow Controller Serial #												
<u>-1</u>	<u>CAMS 15Z</u>	<u>A</u>			<u>274</u>	<u>6L</u>	<u>-</u>				<u>2-14</u>	<u>1300</u>	<u>0.17</u>	<u>75</u>	<u>KH</u>	<u>2-15</u>	<u>1300</u>	<u>11.36</u>	<u>75</u>	<u>KH</u>
					<u>A481</u>															

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

Sample Custody must be documented below each time samples change possession, including courier delivery.					
Relinquished by Laboratory: <u>1</u>	Date Time: _____	Received By: <u>[Signature]</u>	Relinquished By: <u>[Signature]</u>	Date Time: <u>2/20/14 11:50</u>	Received By: <u>[Signature]</u>
Relinquished by: <u>3</u>	Date Time: _____	Received By: <u>[Signature]</u>	Relinquished By: <u>[Signature]</u>	Date Time: <u>2/24/14 0940</u>	Received By: <u>[Signature]</u>
Relinquished by: <u>5</u>	Date Time: _____	Received By: _____	Custody Seal # _____		



# Summa Canister and Flow Controller Log

**Job Number:** JB60380  
**Account:** PROVLABR Providence Engineering  
**Project:** Valero-CAMS, Baton Rouge, LA  
**Received:** 02/24/14

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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
A481	6	29.4	01/06/14	RC	CP6676	3W37850.D	JB60380-1	02/24/14	ML	6.5			1

**Accutest Bottle Order(s):**  
 VP-12/31/2013-26

**Prep Date**      **Room Temp(F)**      **Bar Pres "Hg**  
 01/06/14          70                                  29.92