

**Technical Report for**

**Providence Engineering**

**Valero-CAMS, Baton Rouge, LA**

**Accutest Job Number: JA98536**

**Sampling Date: 01/31/12**

**Report to:**

**Providence Engineering**

**kevincalhoun@providenceeng.com**

**ATTN: Kevin Calhoun**

**Total number of pages in report: 10**



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.



**Reza Fand**  
**Lab Director**

**Client Service contact: Kristyn Morrison 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

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Test results relate only to samples analyzed.

# Table of Contents

-1-

<b>Section 1: Sample Summary</b> .....	<b>3</b>
<b>Section 2: Sample Results</b> .....	<b>4</b>
<b>2.1: JA98536-1: CAMS 028</b> .....	<b>5</b>
<b>Section 3: Misc. Forms</b> .....	<b>7</b>
<b>3.1: Chain of Custody</b> .....	<b>8</b>
<b>3.2: Summa Canister and Flow Controller Log</b> .....	<b>10</b>



## Sample Summary

Providence Engineering

Job No: JA98536

Valero-CAMS, Baton Rouge, LA

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
JA98536-1	01/31/12	13:00 KH	02/03/12	AIR	Ambient Air Comp.	CAMS 028

**Sample Results**

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**Report of Analysis**

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## Report of Analysis

Page 1 of 2

Client Sample ID:	CAMS 028	Date Sampled:	01/31/12
Lab Sample ID:	JA98536-1	Date Received:	02/03/12
Matrix:	AIR - Ambient Air Comp. Summa ID: A903	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	2W34189.D	1	02/10/12	YMH	n/a	n/a	V2W1439
Run #2							

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

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	5.0	0.20	0.036	ppbv		12	0.48	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.024	ppbv		ND	0.44	ug/m3
71-43-2	78.11	Benzene	0.32	0.20	0.046	ppbv		1.0	0.64	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	252.8	Bromoform	ND	0.20	0.037	ppbv		ND	2.1	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.037	ppbv		ND	0.78	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.037	ppbv		ND	0.87	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.041	ppbv		ND	1.0	ug/m3
75-15-0	76.14	Carbon disulfide	0.32	0.20	0.032	ppbv		1.0	0.62	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.027	ppbv		ND	0.92	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.039	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform	ND	0.20	0.028	ppbv		ND	0.98	ug/m3
74-87-3	50.49	Chloromethane	0.50	0.20	0.037	ppbv		1.0	0.41	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.041	ppbv		ND	0.63	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.031	ppbv		ND	1.0	ug/m3
56-23-5	153.8	Carbon tetrachloride	0.095	0.20	0.040	ppbv	J	0.60	1.3	ug/m3
110-82-7	84.16	Cyclohexane	0.16	0.20	0.034	ppbv	J	0.55	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.028	ppbv		ND	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.046	ppbv		ND	0.79	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.20	0.027	ppbv		ND	1.5	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.043	ppbv		ND	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.038	ppbv		ND	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.056	ppbv		ND	0.72	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.52	0.20	0.038	ppbv		2.6	0.99	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.20	0.027	ppbv		ND	1.7	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.033	ppbv		ND	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.038	ppbv		ND	0.79	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.043	ppbv		ND	0.91	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.20	0.037	ppbv		ND	1.2	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.20	0.027	ppbv		ND	1.2	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.20	0.025	ppbv		ND	1.2	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.039	ppbv		ND	0.91	ug/m3

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

## Report of Analysis

Page 2 of 2

Client Sample ID:	CAMS 028	Date Sampled:	01/31/12
Lab Sample ID:	JA98536-1	Date Received:	02/03/12
Matrix:	AIR - Ambient Air Comp. Summa ID: A903	Percent Solids:	n/a
Method:	TO-15		
Project:	Valero-CAMS, Baton Rouge, LA		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	10.4	0.50	0.095	ppbv		19.6	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	0.15	0.20	0.031	ppbv	J	0.65	0.87	ug/m3
141-78-6	88	Ethyl Acetate	3.9	0.20	0.061	ppbv		14	0.72	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.20	0.024	ppbv		ND	0.98	ug/m3
76-13-1	187.4	Freon 113	ND	0.20	0.034	ppbv		ND	1.5	ug/m3
76-14-2	170.9	Freon 114	ND	0.20	0.031	ppbv		ND	1.4	ug/m3
142-82-5	100.2	Heptane	0.12	0.20	0.033	ppbv	J	0.49	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.20	0.046	ppbv		ND	2.1	ug/m3
110-54-3	86.17	Hexane	0.32	0.20	0.044	ppbv		1.1	0.70	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	1.0	0.20	0.059	ppbv		2.5	0.49	ug/m3
75-09-2	84.94	Methylene chloride	ND	0.20	0.027	ppbv		ND	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.44	0.20	0.048	ppbv		1.3	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	0.13	0.20	0.036	ppbv	J	0.53	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.027	ppbv		ND	0.72	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.043	ppbv		ND	0.82	ug/m3
115-07-1	42	Propylene	ND	0.50	0.070	ppbv		ND	0.86	ug/m3
100-42-5	104.1	Styrene	0.10	0.20	0.027	ppbv	J	0.43	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.20	0.022	ppbv		ND	1.1	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.20	0.030	ppbv		ND	1.4	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.20	0.030	ppbv		ND	1.1	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.20	0.051	ppbv		ND	1.5	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	0.19	0.20	0.024	ppbv	J	0.93	0.98	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.20	0.028	ppbv		ND	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	0.42	0.20	0.028	ppbv		2.0	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	0.33	0.20	0.032	ppbv		1.0	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.040	0.028	ppbv		ND	0.27	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.047	ppbv		ND	0.59	ug/m3
108-88-3	92.14	Toluene	2.6	0.20	0.040	ppbv		9.8	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.040	0.033	ppbv		ND	0.21	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.30	0.20	0.042	ppbv		1.7	1.1	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.032	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.057	ppbv		ND	0.70	ug/m3
	106.2	m,p-Xylene	0.45	0.20	0.031	ppbv		2.0	0.87	ug/m3
95-47-6	106.2	o-Xylene	0.19	0.20	0.031	ppbv	J	0.83	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	0.64	0.20	0.031	ppbv		2.8	0.87	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	95%		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

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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  
Tel: 732.329.0200 Fax: 732.329.3499

FED-EX Tracking # 8987 3075 3256  
Lab Quote #  
Billing Control # R/M-11/28/2011-38  
Lab Job # JA 98536

Company Name <b>Providence Engr</b>		Project Name <b>Valero Refining</b>		Weather Parameters			Requested Analysis								
Address <b>1201 Main St</b>		Street		Start: _____ Maximum: _____		Temperature (Fahrenheit)									
City <b>BR LA</b> State <b>LA</b> Zip <b>70802</b>		City <b>Chalmette</b> State <b>LA</b>		Stop: _____ Minimum: _____		Atmospheric Pressure (inches of Hg)									
Project Contact <b>Paul Hollis</b> E-mail <b>providenceengr.com</b>		Project #		Start: _____ Maximum: _____		Stop: _____ Minimum: _____									
Phone # <b>225 766 7400</b> Fax # <b>7440</b>		Client Purchase Order #		Other weather comment:											
Sampler(s) Name(s) <b>Karen Hudson</b>		Air Type		Start Sampling Information					Stop Sampling Information						
Lab Sample #	Field ID / Point of Collection	Indoor (I) Soil Vap (SV) Ambient (A)	Canister Serial #	Canister Size 6L or 1L	Flow Controller Serial #	Date	Time (24 hr clock)	Canister Pressure (H <sub>g</sub> )	Interior Temp (F)	Sampler Init.	Date	Time (24 hr clock)	Canister Pressure (H <sub>g</sub> )	Interior Temp (F)	Sampler Init.
<b>-1</b>	<b>CAMS 028</b>	<b>A</b>	<b>A9036L</b>	<b>-</b>	<b>-</b>	<b>1-30</b>	<b>1300</b>	<b>0.08</b>	<b>75</b>	<b>KH</b>	<b>1-31</b>	<b>1300</b>	<b>12.21</b>	<b>75</b>	<b>KH</b>
Turnaround Time (Business Days)		Approved By: _____		Date: _____		Data Deliverable Information					Comments / Remarks				
Standard - 15 Days <input checked="" type="checkbox"/>						All NJDEP TO-15 is mandatory Full T1					SUMMA				
10 Day <input type="checkbox"/>						Comm A <input type="checkbox"/>					Received at Baton Rouge Service Center				
5 Day <input type="checkbox"/>						Comm B <input type="checkbox"/>									
3 Day <input type="checkbox"/>						Reduced T2 <input type="checkbox"/>									
2 Day <input type="checkbox"/>						Full T1 <input type="checkbox"/>									
1 Day <input type="checkbox"/>						Other: <input type="checkbox"/>									
Other <input type="checkbox"/>															
Sample Custody must be documented below each time samples change possession, including courier delivery.															
Relinquished by Laboratory: <b>Clay Marozian</b>		Date Time: <b>11/28/11</b>		Received by: <b>FEDEX</b>		Date Time: <b>12/1/11</b>		Relinquished by: <b>FEDEX</b>		Date Time: <b>2/1/12</b>		Received by: <b>FEDEX</b>		Date Time: <b>2-3-12</b>	
Relinquished by: <b>Clay Marozian</b>		Date Time: <b>11/28/11</b>		Received by: <b>Paul Hollis</b>		Date Time: <b>12/1/11</b>		Relinquished by: <b>Paul Hollis</b>		Date Time: <b>2/1/12</b>		Received by: <b>FEDEX</b>		Date Time: <b>2-3-12</b>	
Relinquished by: <b>FEDEX</b>		Date Time: <b>2-3-12</b>		Received by: <b>BR</b>		Date Time: <b>2-3-12</b>		Relinquished by: <b>BR</b>		Date Time: <b>2-3-12</b>		Received by: <b>BR</b>		Date Time: <b>2-3-12</b>	

31  
3



## Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JA98536

Client:

Date / Time Received: 2/3/2012

Project:

No. Coolers: 0

Airbill #'s:

Delivery Method:

**Cooler Security**

Y or N

Y or N

- |                           |                                     |                          |                       |                                     |                          |
|---------------------------|-------------------------------------|--------------------------|-----------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. COC Present:       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody Seals Intact:  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. Smpl Dates/Time OK | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

**Cooler Temperature**

Y or N

- |                              |                                     |                          |
|------------------------------|-------------------------------------|--------------------------|
| 1. Temp criteria achieved:   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Cooler temp verification: |                                     |                          |
| 3. Cooler media:             |                                     |                          |

**Quality Control Preservatio**

Y or N

N/A

- |                                 |                                     |                          |                                     |
|---------------------------------|-------------------------------------|--------------------------|-------------------------------------|
| 1. Trip Blank present / cooler: | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2. Trip Blank listed on COC:    | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" 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**

Y or N

- |  |                                     |                          |
|--|-------------------------------------|--------------------------|
| 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**

Y or N

- |                                  |                                     |                          |
|----------------------------------|-------------------------------------|--------------------------|
| 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**

Y or N

N/A

- |   |                                     |                                     |                                     |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 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:** JA98536  
**Account:** PROVLABR Providence Engineering  
**Project:** Valero-CAMS, Baton Rouge, LA  
**Received:** 02/03/12

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

A903	6	29.4	01/17/12	RC	CP5197	2W33807.D	JA98536-1	02/03/12	YXC	5			1
------	---	------	----------	----	--------	-----------	-----------	----------	-----	---	--	--	---

**Accutest Bottle Order(s):**  
 KM-1/17/2012-7

<b>Prep Date</b>	<b>Room Temp(F)</b>	<b>Bar Pres "Hg</b>
01/17/12	70	29.92