

**Technical Report for**

**Providence Engineering**

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

**Accutest Job Number: JA94613**

**Sampling Date: 12/08/11**

**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.



**David N. Speis**  
**VP, Laboratory Director**

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

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Test results relate only to samples analyzed.

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## Sample Summary

Providence Engineering

Job No: JA94613

Valero-CAMS, Baton Rouge, LA

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
JA94613-1	12/08/11	13:00	KH	12/14/11	AIR Ambient Air Comp.	CAMS 019

**Sample Results**

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**Report of Analysis**

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## Report of Analysis

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Client Sample ID:	CAMS 019	Date Sampled:	12/08/11
Lab Sample ID:	JA94613-1	Date Received:	12/14/11
Matrix:	AIR - Ambient Air Comp. Summa ID: A300	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 #2	W34590.D	1	12/21/11	YMH	n/a	n/a	VW1410

Run #1	Initial Volume
Run #2	400 ml

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	10.2	0.20	0.036	ppbv		24.2	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	0.49	0.20	0.046	ppbv		1.6	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	0.18	0.20	0.032	ppbv	J	0.56	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	0.80	0.20	0.037	ppbv		1.7	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	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	0.034	ppbv		ND	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	0.65	0.20	0.038	ppbv		3.2	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

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

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Client Sample ID:	CAMS 019	Date Sampled:	12/08/11
Lab Sample ID:	JA94613-1	Date Received:	12/14/11
Matrix:	AIR - Ambient Air Comp. Summa ID: A300	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	14.0	0.50	0.095	ppbv		26.4	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.20	0.031	ppbv		ND	0.87	ug/m3
141-78-6	88	Ethyl Acetate	5.6	0.20	0.061	ppbv		20	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	ND	0.20	0.033	ppbv		ND	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	ND	0.20	0.044	ppbv		ND	0.70	ug/m3
591-78-6	100	2-Hexanone	0.21	0.20	0.043	ppbv		0.86	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	0.99	0.20	0.048	ppbv		2.9	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	0.15	0.20	0.036	ppbv	J	0.61	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	ND	0.20	0.027	ppbv		ND	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	ND	0.20	0.024	ppbv		ND	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	ND	0.20	0.028	ppbv		ND	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	0.20	0.20	0.032	ppbv		0.61	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	3.3	0.20	0.040	ppbv		12	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	0.12	0.20	0.031	ppbv	J	0.52	0.87	ug/m3
95-47-6	106.2	o-Xylene	ND	0.20	0.031	ppbv		ND	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	0.12	0.20	0.031	ppbv	J	0.52	0.87	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	90%		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

Company Name <b>Providence Engr</b>		Project Name <b>Valero Refining</b>		Weather Parameters		Requested Analysis	
Address <b>1211 Main St</b>		Street		Temperature (Fahrenheit) Start: _____ Maximum: _____			
City <b>Rid</b> State <b>CA</b> Zip <b>91002</b>		City <b>Chulmette</b> State		Stop: _____ Minimum: _____			
Project Contact <b>Paul Hulis &amp; providenceeng.com</b> E-mail		Project # <b>712 -</b>		Atmospheric Pressure (inches of Hg) Start: _____ Maximum: _____			
Phone # <b>225 766 7400</b> Fax # <b>7440</b>		Client Purchase Order #		Stop: _____ Minimum: _____			
Sampler(s) Name(s) <b>Karen Hudson</b>				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 (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.					
-1	CAMS 019	A	A300	6L	10029	12/7	1300	0.04	75	KH	12/8	1300	11.20	75	KH					

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

Sample Custody must be documented below each time samples change possession including courier delivery.					
Relinquished by Laboratory:	Date Time:	Received by:	Relinquished by:	Date Time:	Received by:
1		1	<i>[Signature]</i>	12/10	2
Relinquished by:	Date Time:	Received by:	Relinquished by:	Date Time:	Received by:
3	12/10	3	FedEx	12/10	4
Relinquished by:	Date Time:	Received by:	Custody Seal #		
5		5	check cabinet		

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Accutest Job Number JA94613

Client:

Date / Time Received: 12/14/2011

Project:

No. Coolers: 1

Airbill #'s:

Delivery Method:

<u>Cooler Security</u>	<u>Y or N</u>	<u>Y or N</u>
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"/>

<u>Cooler Temperature</u>	<u>Y or N</u>
1. Temp criteria achieved:	<input checked="" type="checkbox"/> <input type="checkbox"/>
2. Cooler temp verification:	
3. Cooler media:	

<u>Quality Control Preservation</u>	<u>Y</u>	<u>or 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"/>

<u>Sample Integrity - Documentation</u>	<u>Y</u>	<u>or 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"/>

<u>Sample Integrity - Condition</u>	<u>Y</u>	<u>or 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

<u>Sample Integrity - Instructions</u>	<u>Y</u>	<u>or 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:** JA94613  
**Account:** PROVLABR Providence Engineering  
**Project:** Valero-CAMS, Baton Rouge, LA  
**Received:** 12/14/11

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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
A300	6	29.4	11/09/11	HT	CP5078	3W24651.D	JA94613-1	12/15/11	YXC	6			1

**Accutest Bottle Order(s):**  
 KM-11/9/2011-9

<b>Prep Date</b>	<b>Room Temp(F)</b>	<b>Bar Pres "Hg</b>
11/09/11	70	29.92