

**Technical Report for**

**Providence Engineering**

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

**Accutest Job Number: JB75904**

**Sampling Date: 08/26/14**

**Report to:**

**Providence Engineering**

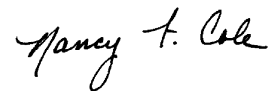
**kevincalhoun@providenceeng.com**

**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 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: JB75904

Valero-CAMS, Baton Rouge, LA

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
JB75904-1	08/26/14	13:00 KH	09/08/14	AIR	Ambient Air Grab	CAMS 184

**Sample Results**

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**Report of Analysis**

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## Report of Analysis

Client Sample ID:	CAMS 184	Date Sampled:	08/26/14
Lab Sample ID:	JB75904-1	Date Received:	09/08/14
Matrix:	AIR - Ambient Air Grab Summa ID: A215	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	3W42850.D	1	09/08/14	YMH	n/a	n/a	V3W1625
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	7.1	0.20	0.11	ppbv		17	0.48	0.26	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.034	ppbv		ND	0.44	0.075	ug/m3
71-43-2	78.11	Benzene	0.33	0.20	0.025	ppbv		1.1	0.64	0.080	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.20	0.029	ppbv		ND	1.3	0.19	ug/m3
75-25-2	252.8	Bromoform	ND	0.20	0.035	ppbv		ND	2.1	0.36	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.033	ppbv		ND	0.78	0.13	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.035	ppbv		ND	0.87	0.15	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.047	ppbv		ND	1.0	0.24	ug/m3
75-15-0	76.14	Carbon disulfide	0.44	0.20	0.031	ppbv		1.4	0.62	0.097	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.034	ppbv		ND	0.92	0.16	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.042	ppbv		ND	0.53	0.11	ug/m3
67-66-3	119.4	Chloroform	ND	0.20	0.024	ppbv		ND	0.98	0.12	ug/m3
74-87-3	50.49	Chloromethane	0.85	0.20	0.079	ppbv		1.8	0.41	0.16	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.037	ppbv		ND	0.63	0.12	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.032	ppbv		ND	1.0	0.17	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.20	0.025	ppbv		ND	1.3	0.16	ug/m3
110-82-7	84.16	Cyclohexane	0.48	0.20	0.027	ppbv		1.7	0.69	0.093	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.027	ppbv		ND	0.81	0.11	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.052	ppbv		ND	0.79	0.21	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	0.023	ppbv		ND	0.81	0.093	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.029	ppbv		ND	0.92	0.13	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	0.030	ppbv		2.9	0.99	0.15	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.20	0.038	ppbv		ND	1.7	0.32	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.070	ppbv		ND	0.79	0.28	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.023	ppbv		ND	0.79	0.091	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.025	ppbv		ND	0.91	0.11	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.20	0.033	ppbv		ND	1.2	0.20	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	0.037	ppbv		ND	1.2	0.22	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.025	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 184	Date Sampled:	08/26/14
Lab Sample ID:	JB75904-1	Date Received:	09/08/14
Matrix:	AIR - Ambient Air Grab	Summa ID:	A215
Method:	TO-15	Percent Solids:	n/a
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	9.2	0.50	0.17	ppbv		17	0.94	0.32	ug/m3
100-41-4	106.2	Ethylbenzene	0.15	0.20	0.035	ppbv	J	0.65	0.87	0.15	ug/m3
141-78-6	88	Ethyl Acetate	21.2	0.20	0.061	ppbv		76.3	0.72	0.22	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.20	0.032	ppbv		ND	0.98	0.16	ug/m3
76-13-1	187.4	Freon 113	ND	0.20	0.040	ppbv		ND	1.5	0.31	ug/m3
76-14-2	170.9	Freon 114	ND	0.20	0.031	ppbv		ND	1.4	0.22	ug/m3
142-82-5	100.2	Heptane	0.40	0.20	0.021	ppbv		1.6	0.82	0.086	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.20	0.051	ppbv		ND	2.1	0.54	ug/m3
110-54-3	86.17	Hexane	1.1	0.20	0.042	ppbv		3.9	0.70	0.15	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.064	ppbv		ND	0.82	0.26	ug/m3
67-63-0	60.1	Isopropyl Alcohol	2.4	0.20	0.066	ppbv		5.9	0.49	0.16	ug/m3
75-09-2	84.94	Methylene chloride	1.5	0.20	0.13	ppbv		5.2	0.69	0.45	ug/m3
78-93-3	72.11	Methyl ethyl ketone	1.1	0.20	0.040	ppbv		3.2	0.59	0.12	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	0.18	0.20	0.042	ppbv	J	0.74	0.82	0.17	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.041	ppbv		ND	0.72	0.15	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.036	ppbv		ND	0.82	0.15	ug/m3
115-07-1	42	Propylene	ND	0.50	0.048	ppbv		ND	0.86	0.082	ug/m3
100-42-5	104.1	Styrene	0.18	0.20	0.033	ppbv	J	0.77	0.85	0.14	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	0.040	ppbv		ND	1.4	0.27	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	0.061	ppbv		ND	1.5	0.45	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	0.11	0.20	0.029	ppbv	J	0.54	0.98	0.14	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.20	0.029	ppbv		ND	0.98	0.14	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.20	0.025	ppbv		ND	0.93	0.12	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	0.35	0.20	0.044	ppbv		1.1	0.61	0.13	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.040	0.037	ppbv		ND	0.27	0.25	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.049	ppbv		ND	0.59	0.14	ug/m3
108-88-3	92.14	Toluene	2.9	0.20	0.030	ppbv		11	0.75	0.11	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.040	0.030	ppbv		ND	0.21	0.16	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.26	0.20	0.029	ppbv		1.5	1.1	0.16	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.031	ppbv		ND	0.51	0.079	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.095	ppbv		ND	0.70	0.33	ug/m3
	106.2	m,p-Xylene	0.35	0.20	0.069	ppbv		1.5	0.87	0.30	ug/m3
95-47-6	106.2	o-Xylene	0.13	0.20	0.034	ppbv	J	0.56	0.87	0.15	ug/m3
1330-20-7	106.2	Xylenes (total)	0.48	0.20	0.034	ppbv		2.1	0.87	0.15	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	91%		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

AIR



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

FED-EX Tracking # 7710 46846692  
 Lab Quote #  
 Bottle Order Control #  
 Lab Job # JB75904

PAGE 1 OF 1

Client / Reporting Information			Project Information			Weather Parameters			Requested Analysis		
Company Name: Providence Engr			Project Name: Votero Refining			Temperature (Fahrenheit)			S1-01		
Address: 1201 Main St			Street:			Start: Maximum:					
City: BR State: LA Zip: 70802			City: Meroux LA State:			Stop: Minimum:					
Project Contact: Paul Hollis @ providence engr.com E-mail:			Project #:			Atmospheric Pressure (inches of Hg)					
Phone # 225-766-7100 Fax # -7440			Client Purchase Order #:			Start: Maximum:					
Sampler(s) Name(s): Karen Hudson						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.		
-1	Cams 184	A	A215	6L	-	8-25	1300	0.91	75	KA	8-26	1300	12.26	75	KA	✓	
<del> </del>																	

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: _____			SUMMA Received at Baton Rouge Service Center		
10 Day	<input type="checkbox"/>							
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: 1	Date Time:	Received By: <i>[Signature]</i>	Relinquished by: <i>[Signature]</i>	Date Time: 8/24/14 11:45	Received By: <i>[Signature]</i>
Relinquished by: <i>[Signature]</i>	Date Time:	Received By: <i>[Signature]</i>	Relinquished by: <i>[Signature]</i>	Date Time: 10:10	Received By: <i>[Signature]</i>
Relinquished by: <i>[Signature]</i>	Date Time:	Received By: <i>[Signature]</i>	Relinquished by: <i>[Signature]</i>	Date Time: 9/8/14	Received By: <i>[Signature]</i>
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal #		

4A115

MS

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# Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB75904      Client: \_\_\_\_\_      Project: \_\_\_\_\_  
 Date / Time Received: 9/8/2014      Delivery Method: \_\_\_\_\_      Airbill #'s: \_\_\_\_\_

### Cooler Temps (Initial/Adjusted):

- |                           |                                     |           |                          |                       |                                     |           |                          |
|---------------------------|-------------------------------------|-----------|--------------------------|-----------------------|-------------------------------------|-----------|--------------------------|
| <b>Cooler Security</b>    | <u>Y</u>                            | <u>or</u> | <u>N</u>                 |                       | <u>Y</u>                            | <u>or</u> | <u>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"/> |

- |                              |                                     |           |                          |
|------------------------------|-------------------------------------|-----------|--------------------------|
| <b>Cooler Temperature</b>    | <u>Y</u>                            | <u>or</u> | <u>N</u>                 |
| 1. Temp criteria achieved:   | <input checked="" type="checkbox"/> |           | <input type="checkbox"/> |
| 2. Cooler temp verification: | _____                               |           |                          |
| 3. Cooler media:             | _____                               |           |                          |
| 4. No. Coolers:              | 0                                   |           |                          |

- |                                     |                                     |           |                          |                                     |
|-------------------------------------|-------------------------------------|-----------|--------------------------|-------------------------------------|
| <b>Quality Control Preservation</b> | <u>Y</u>                            | <u>or</u> | <u>N</u>                 | <u>N/A</u>                          |
| 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"/> |

- |   |                                     |           |                          |
|---|-------------------------------------|-----------|--------------------------|
| <b>Sample Integrity - Documentation</b> | <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"/> |

- |                                     |                                     |           |                          |
|-------------------------------------|-------------------------------------|-----------|--------------------------|
| <b>Sample Integrity - Condition</b> | <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                              |           |                          |

- |   |                                     |           |                                     |                                     |
|---|-------------------------------------|-----------|-------------------------------------|-------------------------------------|
| <b>Sample Integrity - Instructions</b>    | <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

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# Summa Canister and Flow Controller Log

**Job Number:** JB75904  
**Account:** PROVLABR Providence Engineering  
**Project:** Valero-CAMS, Baton Rouge, LA  
**Received:** 09/08/14

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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
A215	6	29.4	08/07/14	AK	CP7135	5W6102.D	JB75904-1	09/08/14	RC	5.5			1

**Accutest Bottle Order(s):**  
 VP-8/7/2014-3

**Prep Date**      **Room Temp(F)**      **Bar Pres "Hg**  
 08/07/14          70                                  29.92