

**Technical Report for**

**Providence Engineering**

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

**712-001**

**Accutest Job Number: JB6706**

**Sampling Date: 05/12/12**

**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.



**Paul Ioannidis**  
**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.

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## Sample Summary

**Providence Engineering**

**Job No: JB6706**

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

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
JB6706-1	05/12/12	13:00 KH	05/17/12	AIR	Ambient Air Grab	CAMS 045

**Sample Results**

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**Report of Analysis**

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## Report of Analysis

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Client Sample ID:	CAMS 045	Date Sampled:	05/12/12
Lab Sample ID:	JB6706-1	Date Received:	05/17/12
Matrix:	AIR - Ambient Air Grab Summa ID: A238	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	2W35362.D	1	05/19/12	YMH	n/a	n/a	V2W1483

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	8.5	0.20	0.036	ppbv		20	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	0.35	0.20	0.046	ppbv		1.1	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	0.40	0.20	0.032	ppbv		1.2	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	0.25	0.20	0.028	ppbv		1.2	0.98	ug/m3
74-87-3	50.49	Chloromethane	1.1	0.20	0.037	ppbv		2.3	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	0.68	0.20	0.040	ppbv		4.3	1.3	ug/m3
110-82-7	84.16	Cyclohexane	0.14	0.20	0.034	ppbv	J	0.48	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	0.41	0.20	0.038	ppbv		2.0	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 045	Date Sampled:	05/12/12
Lab Sample ID:	JB6706-1	Date Received:	05/17/12
Matrix:	AIR - Ambient Air Grab	Summa ID:	A238
Method:	TO-15	Percent Solids:	n/a
Project:	Valero-CAMS, Baton Rouge, LA		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	4.3	0.50	0.095	ppbv		8.1	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	2.4	0.20	0.061	ppbv		8.6	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	0.20	0.20	0.033	ppbv		0.82	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	0.61	0.20	0.044	ppbv		2.1	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	0.64	0.20	0.059	ppbv		1.6	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	1.2	0.20	0.048	ppbv		3.5	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	0.22	0.20	0.036	ppbv		0.90	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	0.12	0.20	0.027	ppbv	J	0.51	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	0.27	0.20	0.024	ppbv		1.3	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	0.58	0.20	0.028	ppbv		2.7	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	0.31	0.20	0.032	ppbv		0.94	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	2.3	0.20	0.040	ppbv		8.7	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	0.12	0.040	0.033	ppbv		0.64	0.21	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.19	0.20	0.042	ppbv	J	1.1	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	0.51	0.20	0.031	ppbv		2.2	0.87	ug/m3
95-47-6	106.2	o-Xylene	0.20	0.20	0.031	ppbv		0.87	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	0.72	0.20	0.031	ppbv		3.1	0.87	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	98%		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

AIR

# CHAIN OF CUSTODY

Air Sampling Field Data Sheet



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

FED-EX Tracking # 8768 3779 3851  
Lab Quote #

Bottle Order Control #  
Lab Job # JB6706

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Client / Reporting Information				Project Information				Weather Parameters					Requested Analysis			
Company Name: Providence Engr				Project Name: Valero Refinery				Temperature (Fahrenheit)					Requested Analysis			
Address: 1201 Main St				Street				Start: Maximum:								
City: BR State: LA Zip: 70802				City: Chalmette State: LA				Stop: Minimum:								
Project Contact: Paul Hollis E-mail: paul.hollis@providenceeng.com				Project #: 712-001				Atmospheric Pressure (inches of Hg)					51-10-15			
Phone #: 225 766 7400 Fax #: 7440				Client Purchase Order #				Start: Maximum:								
Sampler(s) Name: 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) Sol Vent(SV) Ambient(A)	Canister Serial #	Canister Size 6L or 1L	Flow Controller Serial #	Date	Time (24hr clock)	Canister Pressure (H <sub>g</sub> )	Interior Temp (F)	Sampler Init.	Date	Time (24hr clock)	Canister Pressure (H <sub>g</sub> )	Interior Temp (F)	Sampler Init.	
-1	CAMS 045	A	A2396L	-	5-11	1300	0.14	75	124	5-12	1300	11.89	75	124	✓	
Turnaround Time (Business days): Standard - 15 Days, 10 Day, 5 Day, 3 Day, 2 Day, 1 Day, Other																
Approved By: _____ Date: _____				Data Deliverable Information: All NJDEP TO-15 is mandatory Full T1, Comm A, Comm B, Reduced T2, Full T1, Other: _____					Comments / Remarks: Received at Baton Rouge Service Center (SUMM)							
Sample Custody must be documented below each time samples change possession, including courier delivery.																
Relinquished by Laboratory: 1	Date Time:	Received By: 1	Relinquished By: 2	Date Time: 5/18/12 1520	Received By: 2	Relinquished by Laboratory: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time: 5/17/12 1015	Received By: 4	Relinquished by Laboratory: 5	Date Time:	Received By: 5	Custody Seal #	
Handwritten signatures and dates for each custody transfer step.																

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AK

JB6706: Chain of Custody

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**Accutest Job Number:** JB6706      **Client:** PROVIDENCE-LA      **Project:** VALERO  
**Date / Time Received:** 5/17/2012 1015      **Delivery Method:** FedEx      **Airbill #s:** 876839793851

**Cooler Temps (Initial/Adjusted):**

<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:	_____	
4. No. Coolers	0	

<u>Quality Control Preservation</u>	<u>Y</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"/>	<input type="checkbox"/>
4. VOCs headspace free:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

<u>Sample Integrity - Condition</u>	<u>Y 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>N</u>	<u>N/A</u>
1. Analysis requested is clear:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Bottles received for unspecified tests	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Sufficient volume recvd for analysis:	<input checked="" type="checkbox"/>	<input 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 REC'D A238 NOT A239, NO DATE OR TIME ON LABEL

**Accutest Job Number:** JB6706

**CSR:** Michelle \_\_\_\_\_

**Response Date:** 5/17/2012

**Response:** Please proceed as noted

# Summa Canister and Flow Controller Log

**Job Number:** JB6706  
**Account:** PROVLABR Providence Engineering  
**Project:** Valero-CAMS, Baton Rouge, LA  
**Received:** 05/17/12

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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
A238	6	29.4	04/13/12	RC	CP5378	W36040.D	JB6706-1	05/18/12	HT	5			1

**Accutest Bottle Order(s):**  
 KM-4/12/2012-12

**Prep Date**      **Room Temp(F)**      **Bar Pres "Hg**  
 04/13/12          70                                  29.92