

Technical Report for

Providence Engineering

Valero-CAMS, Baton Rouge, LA

712-001

Accutest Job Number: JB70400

Sampling Date: 06/15/14

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: JB70400

Valero-CAMS, Baton Rouge, LA

Project No: 712-001

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
JB70400-1	06/15/14	13:00 KH	06/27/14	AIR	Ambient Air Grab	CAMS 172

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	CAMS 172	Date Sampled:	06/15/14
Lab Sample ID:	JB70400-1	Date Received:	06/27/14
Matrix:	AIR - Ambient Air Grab Summa ID: A991	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	3W41713.D	1	06/28/14	YMH	n/a	n/a	V3W1577
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	15.0	0.20	0.11	ppbv		35.6	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	0.27	0.20	0.025	ppbv		0.86	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	0.23	0.20	0.031	ppbv		0.72	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	1.2	0.20	0.079	ppbv		2.5	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	0.14	0.20	0.025	ppbv	J	0.88	1.3	0.16	ug/m3
110-82-7	84.16	Cyclohexane	0.23	0.20	0.027	ppbv		0.79	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	0.88	0.20	0.030	ppbv		4.4	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 172	Date Sampled:	06/15/14
Lab Sample ID:	JB70400-1	Date Received:	06/27/14
Matrix:	AIR - Ambient Air Grab Summa ID: A991	Percent Solids:	n/a
Method:	TO-15		
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	5.3	0.50	0.17	ppbv		10	0.94	0.32	ug/m3
100-41-4	106.2	Ethylbenzene	0.17	0.20	0.035	ppbv	J	0.74	0.87	0.15	ug/m3
141-78-6	88	Ethyl Acetate	ND	0.20	0.061	ppbv		ND	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	0.12	0.20	0.040	ppbv	J	0.92	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	0.36	0.20	0.021	ppbv		1.5	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	0.31	0.20	0.064	ppbv		1.3	0.82	0.26	ug/m3
67-63-0	60.1	Isopropyl Alcohol	1.5	0.20	0.066	ppbv		3.7	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	1.5	0.20	0.040	ppbv		4.4	0.59	0.12	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	0.37	0.20	0.042	ppbv		1.5	0.82	0.17	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	0.34	0.20	0.041	ppbv		1.2	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	0.32	0.20	0.033	ppbv		1.4	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	0.31	0.20	0.029	ppbv		1.5	0.98	0.14	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	0.11	0.20	0.029	ppbv	J	0.54	0.98	0.14	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	0.47	0.20	0.025	ppbv		2.2	0.93	0.12	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	0.74	0.20	0.044	ppbv		2.2	0.61	0.13	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.046	0.040	0.037	ppbv		0.31	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	0.67	0.20	0.030	ppbv		2.5	0.75	0.11	ug/m3
79-01-6	131.4	Trichloroethylene	0.058	0.040	0.030	ppbv		0.31	0.21	0.16	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.38	0.20	0.029	ppbv		2.1	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	0.51	0.20	0.069	ppbv		2.2	0.87	0.30	ug/m3
95-47-6	106.2	o-Xylene	0.21	0.20	0.034	ppbv		0.91	0.87	0.15	ug/m3
1330-20-7	106.2	Xylenes (total)	0.72	0.20	0.034	ppbv		3.1	0.87	0.15	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	88%		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

Custody Documents and Other Forms

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 # 6020 0492 740 Bottle Order Control #
 Lab Quote # JB70400 Lab Job # JB70400

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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)				<div style="writing-mode: vertical-rl; transform: rotate(180deg); font-size: 2em; font-weight: bold;">10-15</div>			
Address <u>1201 Main St</u>				Street				Start: Maximum:							
City <u>Bn</u> State <u>LA</u> Zip <u>70802</u>				City <u>Meroux</u> State <u>CA</u>				Stop: Minimum:							
Project Contact <u>Paul Hollis</u> Email <u>providenceengr.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:				Stop: Minimum:							
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 #L 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.
<u>-1</u>	<u>Cams 72</u>	<u>A</u>	<u>A 991</u>	<u>6L</u>	<u>6-15</u>	<u>6-14</u>	<u>1300</u>	<u>0.0375</u>	<u>KH</u>	<u>6-15</u>	<u>1300</u>	<u>11.49</u>	<u>75</u>	<u>KH</u>	✓
Sample Custody must be documented below each time samples change possession, including courier delivery.															
Turnaround Time (Business days) Standard - 15 Days <input checked="" type="checkbox"/> 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"/>				Approved By: _____ Date: _____				Data Deliverable Information All NJDEP TO-15 is mandatory Full T1 Comm A <input type="checkbox"/> Comm B <input type="checkbox"/> Reduced T2 <input type="checkbox"/> Full T1 <input type="checkbox"/> Other: _____				Comments / Remarks			
Relinquished by Laboratory:		Date Time:	Received By:		Relinquished By:		Date Time:	Received By:		Relinquished by:		Date Time:	Received By:		
1			<u>[Signature]</u>		<u>[Signature]</u>		<u>6/26/14 12:15</u>	<u>[Signature]</u>		3		<u>6/27/14 09:50</u>	<u>[Signature]</u>		
3			<u>[Signature]</u>		<u>[Signature]</u>			<u>[Signature]</u>		4			<u>[Signature]</u>		
5			<u>[Signature]</u>		<u>[Signature]</u>			<u>[Signature]</u>		Custody Seal #					

4A

RS

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB70400 **Client:** _____ **Project:** _____
Date / Time Received: 6/27/2014 **Delivery Method:** _____ **Airbill #s:** _____

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>or</u>	<u>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 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 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</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

Summa Canister and Flow Controller Log

Job Number: JB70400
Account: PROVLABR Providence Engineering
Project: Valero-CAMS, Baton Rouge, LA
Received: 06/27/14

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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
A991	6	29.4	05/27/14	YMH	CP7026	5W4817.D	JB70400-1	06/27/14	ML	7			1

Accutest Bottle Order(s):
 VP-5/27/2014-3

Prep Date **Room Temp(F)** **Bar Pres "Hg**
 05/27/14 70 29.92