

Technical Report for

Providence Engineering

Valero-CAMS, Baton Rouge, LA

712-001

Accutest Job Number: JB35638

Sampling Date: 04/23/13

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.



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

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Test results relate only to samples analyzed.

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Sample Summary

Providence Engineering

Job No: JB35638

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

Sample Number	Collected		Matrix			Client Sample ID
	Date	Time By	Received	Code	Type	
JB35638-1	04/23/13	13:00 KH	04/30/13	AIR	Ambient Air Grab	CAMS 102

Sample Results

Report of Analysis

Report of Analysis

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Client Sample ID:	CAMS 102	Date Sampled:	04/23/13
Lab Sample ID:	JB35638-1	Date Received:	04/30/13
Matrix:	AIR - Ambient Air Grab Summa ID: LA 2720	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 #1	3W33649.D	1	05/09/13	YMH	n/a	n/a	V3W1302
Run #2							

Run #1	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	4.7	0.20	0.069	ppbv	11	0.48	0.16	ug/m3	
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.026	ppbv	ND	0.44	0.058	ug/m3	
71-43-2	78.11	Benzene	0.30	0.20	0.029	ppbv	0.96	0.64	0.093	ug/m3	
75-27-4	163.8	Bromodichloromethane	ND	0.20	0.031	ppbv	ND	1.3	0.21	ug/m3	
75-25-2	252.8	Bromoform	ND	0.20	0.029	ppbv	ND	2.1	0.30	ug/m3	
74-83-9	94.94	Bromomethane	ND	0.20	0.024	ppbv	ND	0.78	0.093	ug/m3	
593-60-2	106.9	Bromoethene	ND	0.20	0.027	ppbv	ND	0.87	0.12	ug/m3	
100-44-7	126	Benzyl Chloride	ND	0.20	0.048	ppbv	ND	1.0	0.25	ug/m3	
75-15-0	76.14	Carbon disulfide	0.21	0.20	0.024	ppbv	0.65	0.62	0.075	ug/m3	
108-90-7	112.6	Chlorobenzene	ND	0.20	0.040	ppbv	ND	0.92	0.18	ug/m3	
75-00-3	64.52	Chloroethane	ND	0.20	0.035	ppbv	ND	0.53	0.092	ug/m3	
67-66-3	119.4	Chloroform	ND	0.20	0.026	ppbv	ND	0.98	0.13	ug/m3	
74-87-3	50.49	Chloromethane	0.72	0.20	0.055	ppbv	1.5	0.41	0.11	ug/m3	
107-05-1	76.53	3-Chloropropene	ND	0.20	0.035	ppbv	ND	0.63	0.11	ug/m3	
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.031	ppbv	ND	1.0	0.16	ug/m3	
56-23-5	153.8	Carbon tetrachloride	ND	0.20	0.020	ppbv	ND	1.3	0.13	ug/m3	
110-82-7	84.16	Cyclohexane	0.24	0.20	0.050	ppbv	0.83	0.69	0.17	ug/m3	
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.019	ppbv	ND	0.81	0.077	ug/m3	
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.023	ppbv	ND	0.79	0.091	ug/m3	
106-93-4	187.9	1,2-Dibromoethane	ND	0.20	0.029	ppbv	ND	1.5	0.22	ug/m3	
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.027	ppbv	ND	0.81	0.11	ug/m3	
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.034	ppbv	ND	0.92	0.16	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	0.57	0.20	0.024	ppbv	2.8	0.99	0.12	ug/m3	
124-48-1	208.3	Dibromochloromethane	ND	0.20	0.035	ppbv	ND	1.7	0.30	ug/m3	
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.027	ppbv	ND	0.79	0.11	ug/m3	
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.025	ppbv	ND	0.79	0.099	ug/m3	
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.033	ppbv	ND	0.91	0.15	ug/m3	
541-73-1	147	m-Dichlorobenzene	ND	0.20	0.028	ppbv	ND	1.2	0.17	ug/m3	
95-50-1	147	o-Dichlorobenzene	ND	0.20	0.039	ppbv	ND	1.2	0.23	ug/m3	
106-46-7	147	p-Dichlorobenzene	ND	0.20	0.060	ppbv	ND	1.2	0.36	ug/m3	
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.024	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 102	Date Sampled:	04/23/13
Lab Sample ID:	JB35638-1	Date Received:	04/30/13
Matrix:	AIR - Ambient Air Grab Summa ID: LA 2720	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	3.7	0.50	0.17	ppbv		7.0	0.94	0.32	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.20	0.029	ppbv		ND	0.87	0.13	ug/m3
141-78-6	88	Ethyl Acetate	ND	0.20	0.13	ppbv		ND	0.72	0.47	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.20	0.028	ppbv		ND	0.98	0.14	ug/m3
76-13-1	187.4	Freon 113	ND	0.20	0.028	ppbv		ND	1.5	0.21	ug/m3
76-14-2	170.9	Freon 114	ND	0.20	0.023	ppbv		ND	1.4	0.16	ug/m3
142-82-5	100.2	Heptane	0.31	0.20	0.028	ppbv		1.3	0.82	0.11	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.20	0.030	ppbv		ND	2.1	0.32	ug/m3
110-54-3	86.17	Hexane	0.98	0.20	0.050	ppbv		3.5	0.70	0.18	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.051	ppbv		ND	0.82	0.21	ug/m3
67-63-0	60.1	Isopropyl Alcohol	1.1	0.20	0.065	ppbv		2.7	0.49	0.16	ug/m3
75-09-2	84.94	Methylene chloride	0.38	0.20	0.055	ppbv		1.3	0.69	0.19	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.87	0.20	0.042	ppbv		2.6	0.59	0.12	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.084	ppbv		ND	0.82	0.34	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.045	ppbv		ND	0.72	0.16	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.038	ppbv		ND	0.82	0.16	ug/m3
115-07-1	42	Propylene	ND	0.50	0.034	ppbv		ND	0.86	0.058	ug/m3
100-42-5	104.1	Styrene	ND	0.20	0.025	ppbv		ND	0.85	0.11	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	0.034	ppbv		ND	1.4	0.23	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	0.095	ppbv		ND	1.5	0.71	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	0.044	ppbv		ND	0.98	0.22	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	2.1	0.20	0.031	ppbv		9.8	0.93	0.14	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	0.25	0.20	0.049	ppbv		0.76	0.61	0.15	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.040	0.024	ppbv		ND	0.27	0.16	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.074	ppbv		ND	0.59	0.22	ug/m3
108-88-3	92.14	Toluene	0.93	0.20	0.032	ppbv		3.5	0.75	0.12	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.040	0.036	ppbv		ND	0.21	0.19	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.26	0.20	0.028	ppbv		1.5	1.1	0.16	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.022	ppbv		ND	0.51	0.056	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.054	ppbv		ND	0.70	0.19	ug/m3
	106.2	m,p-Xylene	0.27	0.20	0.058	ppbv		1.2	0.87	0.25	ug/m3
95-47-6	106.2	o-Xylene	0.11	0.20	0.037	ppbv	J	0.48	0.87	0.16	ug/m3
1330-20-7	106.2	Xylenes (total)	0.38	0.20	0.037	ppbv		1.7	0.87	0.16	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	89%		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

AIR

CHAIN OF CUSTODY

Air Sampling Field Data Sheet



2235 US Highway 130, Dayton, NJ 08810
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FED-EX Tracking # 76266132839
Lab Quote #

Bottle Order Control #

Lab Job # JB35638

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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)		
Address <u>1201 Main St</u>		Street		Start: Maximum:		
City <u>Biz</u> State <u>CA</u> Zip <u>70802</u>		City <u>Meroux</u> State <u>CA</u>		Stop: Minimum:		
Project Contact <u>Paul Hollis</u> E-mail <u>providenceeng.com</u>		Project # <u>712-001</u>		Atmospheric Pressure (inches of Hg)		
Phone # <u>25766-7400</u> Fax # <u>-7440</u>		Client Purchase Order #		Start: Maximum:		
Sampler(s) Name(s)				Stop: Minimum:		
				Other weather comment:		

Lab Sample #	Field ID / Point of Collection	Air Type	Sampling Equipment Info			Start Sampling Information					Stop Sampling Information				
			Indoor(T) Soil Vac(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)
<u>-1</u>	<u>CAMS 102</u>	<u>A</u>	<u>11026L</u>	<u>-</u>	<u>4-22</u>	<u>1300</u>	<u>0.02</u>	<u>75</u>	<u>161</u>	<u>4-23</u>	<u>1300</u>	<u>11.45</u>	<u>75</u>	<u>161</u>	

Turnaround time (Business days) <input checked="" type="checkbox"/> Standard - 15 Days <input 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	Approved By: _____ Date: _____	Data Deliverable Information <input type="checkbox"/> All NJDEP TO-15 is mandatory Full T1 <input type="checkbox"/> Comm A <input type="checkbox"/> Comm B <input type="checkbox"/> Reduced T2 <input type="checkbox"/> Full T1 <input type="checkbox"/> Other: _____	Comments / Remarks <u>SC17/17A</u> Received at Baton Rouge Service Center
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Sample Custody must be documented below each time samples change possession, including courier delivery.			
Relinquished by Laboratory: <u>1</u>	Date/Time: _____	Received By: <u>[Signature]</u>	Relinquished By: <u>[Signature]</u>
Relinquished by: <u>3</u>	Date/Time: <u>4/26/13</u>	Received By: <u>[Signature]</u>	Relinquished By: <u>[Signature]</u>
Relinquished by: <u>5</u>	Date/Time: _____	Received By: <u>[Signature]</u>	Relinquished By: <u>[Signature]</u>
			Custody Seal # <u>4/30/13 0930</u>

2B

Dr.

Accutest Job Number: JB35638 **Client:** _____ **Project:** _____
Date / Time Received: 4/30/2013 **Delivery Method:** _____ **Airbill #'s:** _____

Cooler Temps (Initial/Adjusted):

<u>Cooler Security</u>	<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. SmpI Dates/Time OK	<input checked="" type="checkbox"/>		<input type="checkbox"/>

<u>Cooler Temperature</u>	<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		

<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</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"/>

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

<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: JB35638
Account: PROVLABR Providence Engineering
Project: Valero-CAMS, Baton Rouge, LA
Received: 04/30/13

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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
LA 2720	6	29.4	03/22/13	RC	CP6095	3W32853.D	JB35638-1	04/30/13	RC	7.5			1

Accutest Bottle Order(s):
 VP-3/21/2013-20

Prep Date **Room Temp(F)** **Bar Pres "Hg**
 03/22/13 70 29.92