



07/27/14

Technical Report for

Providence Engineering

Valero-CAMS, Baton Rouge, LA

712-001

Accutest Job Number: JB72119

Sampling Date: 07/09/14

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: JB72119

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

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
JB72119-1	07/09/14	13:00 KH	07/21/14	AIR	Ambient Air Grab	CAMS 176

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	CAMS 176	Date Sampled:	07/09/14
Lab Sample ID:	JB72119-1	Date Received:	07/21/14
Matrix:	AIR - Ambient Air Grab Summa ID: A314	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	3W42040.D	1	07/24/14	YMH	n/a	n/a	V3W1592
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	20.6	0.20	0.11	ppbv		48.9	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	0.20	0.20	0.031	ppbv		0.62	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	0.96	0.20	0.079	ppbv		2.0	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	0.10	0.20	0.025	ppbv	J	0.63	1.3	0.16	ug/m3
110-82-7	84.16	Cyclohexane	0.28	0.20	0.027	ppbv		0.96	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	0.65	0.20	0.030	ppbv		3.2	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 176		
Lab Sample ID: JB72119-1		Date Sampled: 07/09/14
Matrix: AIR - Ambient Air Grab	Summa ID: A314	Date Received: 07/21/14
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	11.0	0.50	0.17	ppbv		20.7	0.94	0.32	ug/m3
100-41-4	106.2	Ethylbenzene	0.28	0.20	0.035	ppbv		1.2	0.87	0.15	ug/m3
141-78-6	88	Ethyl Acetate	1.1	0.20	0.061	ppbv		4.0	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	0.21	0.20	0.021	ppbv		0.86	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	0.55	0.20	0.042	ppbv		1.9	0.70	0.15	ug/m3
591-78-6	100	2-Hexanone	0.24	0.20	0.064	ppbv		0.98	0.82	0.26	ug/m3
67-63-0	60.1	Isopropyl Alcohol	3.6	0.20	0.066	ppbv		8.8	0.49	0.16	ug/m3
75-09-2	84.94	Methylene chloride	0.61	0.20	0.13	ppbv		2.1	0.69	0.45	ug/m3
78-93-3	72.11	Methyl ethyl ketone	2.0	0.20	0.040	ppbv		5.9	0.59	0.12	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	0.25	0.20	0.042	ppbv		1.0	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	0.91	0.20	0.033	ppbv		3.9	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	0.16	0.20	0.029	ppbv	J	0.79	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	0.20	0.20	0.025	ppbv		0.93	0.93	0.12	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	0.56	0.20	0.044	ppbv		1.7	0.61	0.13	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.084	0.040	0.037	ppbv		0.57	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	3.0	0.20	0.030	ppbv		11	0.75	0.11	ug/m3
79-01-6	131.4	Trichloroethylene	0.085	0.040	0.030	ppbv		0.46	0.21	0.16	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.30	0.20	0.029	ppbv		1.7	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	0.84	0.20	0.069	ppbv		3.6	0.87	0.30	ug/m3
95-47-6	106.2	o-Xylene	0.24	0.20	0.034	ppbv		1.0	0.87	0.15	ug/m3
1330-20-7	106.2	Xylenes (total)	1.1	0.20	0.034	ppbv		4.8	0.87	0.15	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	100%		65-128%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range 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

AIC

CHAIN OF CUSTODY

FED-EX Tracking # 7706 2765 7832 Order # VP-12/16/2013-16 PAGE 1 OF 1
Lab Code # JB72119



Air Sampling Field Data Sheet

Client / Reporting Information			Weather Parameters			Requested Analysis
Company Name: Providence Engrs		Project Name: Valero Refining	Temperature (Fahrenheit)		Start:	
Address:		Street:	Maximum:		Stop:	
City: State: Zip:		City: Meroux LA State:	Minimum:		Atmospheric Pressure (inches of Hg)	
Project Contact: E-mail:		Project #: 712-001	Start:		Maximum:	
Phone #: 225 766-7400 Fax #: -7440		Client Purchase Order #:	Stop:		Minimum:	
Sampler(s) Name(s):			Other weather comment:			Standard TO-15 Reporting List

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 176	A	A314	6L	-	7-8	1300	0.21	75	KH	7-9	1300	11.57	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			SOMMA Received at Baton Rouge Service Center		
10 Day	<input type="checkbox"/>		Comm A	<input type="checkbox"/>	<input type="checkbox"/>			
5 Day	<input type="checkbox"/>		Comm B	<input type="checkbox"/>	<input type="checkbox"/>			
3 Day	<input type="checkbox"/>		Reduced T2	<input type="checkbox"/>	<input type="checkbox"/>			
2 Day	<input type="checkbox"/>		Full T1	<input type="checkbox"/>	<input type="checkbox"/>			
1 Day	<input type="checkbox"/>		Other:	<input type="checkbox"/>	<input type="checkbox"/>			
Other	<input type="checkbox"/>							

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by: [Signature]	Date Time: 12/18/13 1500	Received By: FedEx	1	Relinquished By: FedEx	2	Date Time: [Signature]
Relinquished by: [Signature]	Date Time: 7/17/14 12:00	Received By: [Signature]	3	Relinquished By: [Signature]	4	Date Time: [Signature]
Relinquished by: [Signature]	Date Time: 7-21-14 930	Received By: [Signature]	5	Custody Seal #		Date Time: [Signature]

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JB72119: Chain of Custody

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Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB72119 Client: _____ Project: _____
 Date / Time Received: 7/21/2014 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. Smpl 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 Preservatio</u>	<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"/>

<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

Accutest Laboratories
V: 732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www.accutest.com

3.1
3

Summa Canister and Flow Controller Log

Job Number: JB72119
Account: PROVLABR Providence Engineering
Project: Valero-CAMS, Baton Rouge, LA
Received: 07/21/14

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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
A314	6	29.4	06/12/14	AK	CP7069	5W5134.D	JB72119-1	07/23/14	YMH	6.5			1

Accutest Bottle Order(s):
 VP-6/12/2014-3

Prep Date **Room Temp(F)** **Bar Pres "Hg**
 06/12/14 70 29.92