

Technical Report for

Providence Engineering

Valero-CAMS, Baton Rouge, LA

712-001

Accutest Job Number: JB42134

Sampling Date: 07/08/13

Report to:

Providence Engineering

kevincalhoun@providenceeng.com

ATTN: Kevin Calhoun

Total number of pages in report: **12**



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

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

Table of Contents

-1-

Section 1: Sample Summary	3
Section 2: Sample Results	4
2.1: JB42134-1: CAMS 115	5
Section 3: Misc. Forms	7
3.1: Chain of Custody	8
3.2: Summa Canister and Flow Controller Log	12



Sample Summary

Providence Engineering

Job No: JB42134

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

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
JB42134-1	07/08/13	13:00	BIC	07/15/13	AIR Ambient Air Grab	CAMS 115

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	CAMS 115	Date Sampled:	07/08/13
Lab Sample ID:	JB42134-1	Date Received:	07/15/13
Matrix:	AIR - Ambient Air Grab Summa ID: A884	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	W43129.D	1.43	07/26/13	YMH	n/a	n/a	VW1727

Run #1	Initial Volume
Run #2	572 ml

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone	5.5	0.20	0.034	ppbv		13	0.48	0.081	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.020	ppbv		ND	0.44	0.044	ug/m3
71-43-2	78.11	Benzene	0.42	0.20	0.021	ppbv		1.3	0.64	0.067	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.20	0.025	ppbv		ND	1.3	0.17	ug/m3
75-25-2	252.8	Bromoform	ND	0.20	0.022	ppbv		ND	2.1	0.23	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.017	ppbv		ND	0.78	0.066	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.014	ppbv		ND	0.87	0.061	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.025	ppbv		ND	1.0	0.13	ug/m3
75-15-0	76.14	Carbon disulfide	0.20	0.20	0.017	ppbv		0.62	0.62	0.053	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.025	ppbv		ND	0.92	0.12	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.020	ppbv		ND	0.53	0.053	ug/m3
67-66-3	119.4	Chloroform	ND	0.20	0.019	ppbv		ND	0.98	0.093	ug/m3
74-87-3	50.49	Chloromethane	0.89	0.20	0.034	ppbv		1.8	0.41	0.070	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.028	ppbv		ND	0.63	0.088	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.020	ppbv		ND	1.0	0.10	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.20	0.011	ppbv		ND	1.3	0.069	ug/m3
110-82-7	84.16	Cyclohexane	0.33	0.20	0.058	ppbv		1.1	0.69	0.20	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.016	ppbv		ND	0.81	0.065	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.021	ppbv		ND	0.79	0.083	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	0.016	ppbv		ND	0.81	0.065	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.040	ppbv		ND	0.92	0.18	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.060	ppbv		ND	0.72	0.22	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.51	0.20	0.015	ppbv		2.5	0.99	0.074	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.20	0.029	ppbv		ND	1.7	0.25	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.015	ppbv		ND	0.79	0.059	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	0.11	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.019	ppbv		ND	0.91	0.086	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.20	0.025	ppbv		ND	1.2	0.15	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	0.022	ppbv		ND	1.2	0.13	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.021	ppbv		ND	0.91	0.095	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 115	Date Sampled:	07/08/13
Lab Sample ID:	JB42134-1	Date Received:	07/15/13
Matrix:	AIR - Ambient Air Grab Summa ID: A884	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	1.8	0.50	0.19	ppbv		3.4	0.94	0.36	ug/m3
100-41-4	106.2	Ethylbenzene	0.32	0.20	0.020	ppbv		1.4	0.87	0.087	ug/m3
141-78-6	88	Ethyl Acetate	0.36	0.20	0.057	ppbv		1.3	0.72	0.21	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.20	0.015	ppbv		ND	0.98	0.074	ug/m3
76-13-1	187.4	Freon 113	ND	0.20	0.021	ppbv		ND	1.5	0.16	ug/m3
76-14-2	170.9	Freon 114	ND	0.20	0.021	ppbv		ND	1.4	0.15	ug/m3
142-82-5	100.2	Heptane	0.50	0.20	0.020	ppbv		2.0	0.82	0.082	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.20	0.063	ppbv		ND	2.1	0.67	ug/m3
110-54-3	86.17	Hexane	1.0	0.20	0.016	ppbv		3.5	0.70	0.056	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.025	ppbv		ND	0.82	0.10	ug/m3
67-63-0	60.1	Isopropyl Alcohol	0.46	0.20	0.039	ppbv		1.1	0.49	0.096	ug/m3
75-09-2	84.94	Methylene chloride	0.34	0.20	0.047	ppbv		1.2	0.69	0.16	ug/m3
78-93-3	72.11	Methyl ethyl ketone	1.0	0.20	0.058	ppbv		2.9	0.59	0.17	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.029	ppbv		ND	0.82	0.12	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.017	ppbv		ND	0.72	0.061	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.040	ppbv		ND	0.82	0.16	ug/m3
115-07-1	42	Propylene	ND	0.50	0.031	ppbv		ND	0.86	0.053	ug/m3
100-42-5	104.1	Styrene	0.17	0.20	0.020	ppbv	J	0.72	0.85	0.085	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.20	0.016	ppbv		ND	1.1	0.087	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.20	0.030	ppbv		ND	1.4	0.21	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.20	0.031	ppbv		ND	1.1	0.17	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.20	0.079	ppbv		ND	1.5	0.59	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	0.29	0.20	0.017	ppbv		1.4	0.98	0.084	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.20	0.015	ppbv		ND	0.98	0.074	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	1.9	0.20	0.021	ppbv		8.9	0.93	0.098	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	0.30	0.20	0.044	ppbv		0.91	0.61	0.13	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.040	0.029	ppbv		ND	0.27	0.20	ug/m3
109-99-9	72.11	Tetrahydrofuran	0.36	0.20	0.045	ppbv		1.1	0.59	0.13	ug/m3
108-88-3	92.14	Toluene	1.6	0.20	0.020	ppbv		6.0	0.75	0.075	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	0.10	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.26	0.20	0.014	ppbv		1.5	1.1	0.079	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.017	ppbv		ND	0.51	0.043	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.058	ppbv		ND	0.70	0.20	ug/m3
	106.2	m,p-Xylene	1.1	0.20	0.032	ppbv		4.8	0.87	0.14	ug/m3
95-47-6	106.2	o-Xylene	0.39	0.20	0.019	ppbv		1.7	0.87	0.083	ug/m3
1330-20-7	106.2	Xylenes (total)	1.5	0.20	0.019	ppbv		6.5	0.87	0.083	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	90%		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

FED-EX Tracking #
9579744 4922

By: **VP-11/30/2012-4**
Lab Job # **JB42134**

PAGE **1** OF **1**

Company Name PROVIDENCE		Project Name VALERO REFINING		Weather Parameters		Requested Analysis
Address 1201 MAIN ST. LA 70802		Street		Temperature (Fahrenheit)		
City BATON ROUGE State LA Zip 70802		City MERAUX State LA		Start: Maximum		
Project Contact PAUL HOLLIS paul.hollis@providenceeng.com		Project # 712-001		Stop: Minimum		
Phone # 225-766-7400 Fax # -7440		Client Purchase Order #		Atmospheric Pressure (inches of Hg)		
Sampler(s) Name(s) BRANDON KEUMASTON				Start: Maximum		Standard TO-15 Reporting List 70-15
				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 Vapor (SV) Ambient (A)	Canister Serial #	Canister Size or L	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 115	(A)	A884	6L	5	7/7/12	00:00	0.07	75°	BC	7/8/12	13:00	11.48	75°	BC

Turnaround Time (Business days)		Data Deliverable Information		Comments / Remarks
Standard - 15 Days	<input type="checkbox"/>	Approved By: _____	All NJDEP TO-15 is mandatory Full T1	
10 Day	<input type="checkbox"/>	Date: _____	Comm A <input type="checkbox"/>	
5 Day	<input type="checkbox"/>		Comm B <input type="checkbox"/>	
3 Day	<input type="checkbox"/>		Reduced T2 <input type="checkbox"/>	
2 Day	<input type="checkbox"/>		Full T1 <input type="checkbox"/>	
1 Day	<input type="checkbox"/>		Other: <input type="checkbox"/>	
Other	<input type="checkbox"/>			

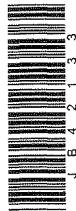
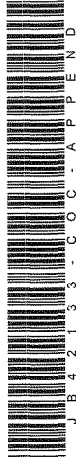
Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by: 1 Day / Harrison	Date/Time: 11/30/12 12:00	Received By: 1 FEJ	Relinquished By: 2 FedEx	Date/Time:	Received By: 2
Relinquished by: 3	Date/Time:	Received By: BRANDON KEUMASTON	Relinquished By: BRANDON KEUMASTON	Date/Time: 7/11/13 10:31	Received By: Renée Sam
Relinquished by: 5 Renée Sam	Date/Time:	Received By: 5 FedEx	Custody Seal #		
6 FedEx	7/8/12 noon	By [signature]			

2A

31
3





JB42133

JB42134: Chain of Custody
Page 2 of 4

Job# JB42133
(REQUIRED)

Unused Summa Return Form

Client ALSE Office _____
Project _____

#Summas 1 #Flow Controllers 1

Summa#^s A1662
FC# FC417

Rec'd By Tony Esposito Rec'd Date/Time 7/17/13 0930

Rec'd via FedEx 7962 1108 0922
(Attach any client paperwork, documentation, or airbills if available)

Notes _____

2A

Accutest Job Number: JB42134 **Client:** _____ **Project:** _____
Date / Time Received: 7/15/2013 **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. 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 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"/>

Comments

<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"/>

Summa Canister and Flow Controller Log

Job Number: JB42134
Account: PROVLABR Providence Engineering
Project: Valero-CAMS, Baton Rouge, LA
Received: 07/15/13

32
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
A884	6	29.4	06/17/13	RC	CP6267	3W34290.D	JB42134-1	07/15/13	RC	7			1

Accutest Bottle Order(s):
 VP-6/17/2013-4

Prep Date **Room Temp(F)** **Bar Pres "Hg**
 06/17/13 70 29.92