

Technical Report for

Providence Engineering

Valero-CAMS, Baton Rouge, LA

712-001

Accutest Job Number: JB45141

Sampling Date: 08/13/13

Report to:

Providence Engineering

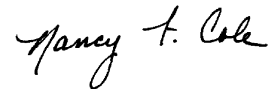
kevincalhoun@providenceeng.com

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.

A handwritten signature in black ink that reads "Nancy F. Cole".

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: JB45141-1: CAMS 121	5
Section 3: Misc. Forms	7
3.1: Chain of Custody	8
3.2: Summa Canister and Flow Controller Log	10



Sample Summary

Providence Engineering

Job No: JB45141

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

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
JB45141-1	08/13/13	13:00 KH	08/19/13	AIR	Ambient Air Grab	CAMS 121

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	CAMS 121	Date Sampled:	08/13/13
Lab Sample ID:	JB45141-1	Date Received:	08/19/13
Matrix:	AIR - Ambient Air Grab Summa ID: A183	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	2W39352.D	1	08/19/13	YMH	n/a	n/a	V2W1645
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	4.4	0.20	0.034	ppbv	10	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	0.22	0.20	0.017	ppbv	0.69	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	0.72	0.20	0.034	ppbv	1.5	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	ND	0.20	0.058	ppbv	ND	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	0.44	0.20	0.015	ppbv	2.2	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 121		
Lab Sample ID:	JB45141-1	Date Sampled:	08/13/13
Matrix:	AIR - Ambient Air Grab	Summa ID:	A183
Method:	TO-15	Date Received:	08/19/13
Project:	Valero-CAMS, Baton Rouge, LA	Percent Solids:	n/a

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	1.5	0.50	0.19	ppbv		2.8	0.94	0.36	ug/m3
100-41-4	106.2	Ethylbenzene	1.5	0.20	0.020	ppbv		6.5	0.87	0.087	ug/m3
141-78-6	88	Ethyl Acetate	ND	0.20	0.057	ppbv		ND	0.72	0.21	ug/m3
622-96-8	120.2	4-Ethyltoluene	2.9	0.20	0.015	ppbv		14	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	0.25	0.20	0.020	ppbv		1.0	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	0.55	0.20	0.016	ppbv		1.9	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	0.43	0.20	0.039	ppbv		1.1	0.49	0.096	ug/m3
75-09-2	84.94	Methylene chloride	0.20	0.20	0.047	ppbv		0.69	0.69	0.16	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.54	0.20	0.058	ppbv		1.6	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	0.34	0.20	0.020	ppbv		1.4	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	11.8	0.20	0.017	ppbv		58.0	0.98	0.084	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	4.8	0.20	0.015	ppbv		24	0.98	0.074	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	1.5	0.20	0.021	ppbv		7.0	0.93	0.098	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	0.24	0.20	0.044	ppbv		0.73	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	ND	0.20	0.045	ppbv		ND	0.59	0.13	ug/m3
108-88-3	92.14	Toluene	4.3	0.20	0.020	ppbv		16	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	0.25	0.20	0.014	ppbv		1.4	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	19.2	0.20	0.032	ppbv		83.4	0.87	0.14	ug/m3
95-47-6	106.2	o-Xylene	6.6	0.20	0.019	ppbv		29	0.87	0.083	ug/m3
1330-20-7	106.2	Xylenes (total)	25.7	0.20	0.019	ppbv		112	0.87	0.083	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	99%		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



CHAIN OF CUSTODY

Air Sampling Field Data Sheet

FEPA Tracking # **89873061-6649** Bottle Order Control #
 Lab Quote # Lab Job # **JB45141**

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

Client / Reporting Information				Weather Parameters					Requested Analysis							
Company Name Providence Engr			Project Name Valero Refining		Temperature (Fahrenheit)					Standard TO-15 Reporting List						
Address 1201 Main St			Street		Start:		Maximum:									
City Br State LA Zip 70802			City Merays LA State		Stop:		Minimum:									
Project Contact Paul Hollis E providenceeng.com			Project # 712-001		Atmospheric Pressure (inches of Hg)											
Phone # 225 766-7400 Fax # -7440			Client Purchase Order #		Start:		Maximum:									
Sampler(s) Name(s) Karen Hudson				Other weather comment:												
Lab Sample #	Field ID / Point of Collection	Air Type			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 121	A	A183	6L	-	8-12	1300	0.01	75	UH	8-13	1300	11.38	75	UH	<input checked="" type="checkbox"/>
Turnaround Time (Business days)		Approved By: _____			Date Deliverable Information					Comments / Remarks						
<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		Date: _____			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 Other: _____					Air Solvent Received at Baton Rouge Service Center						
Sample Custody must be documented below each time samples change possession, including courier delivery.																
Relinquished by Laboratory:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:	Relinquished By:	
1		1	2	8/16/13 11:55	2	3	8/19/13 9:30	3	4	4	4	4		FEA FX		
Relinquished by:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:	Relinquished By:	
3		3	4		4	5		5								
Relinquished by:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:	Relinquished By:	
5		5														

31
3

JB

JB45141: Chain of Custody

Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB45141 **Client:** _____ **Project:** _____
Date / Time Received: 8/19/2013 **Delivery Method:** _____ **Airbill #s:** _____

Cooler Temps (Initial/Adjusted):

- | | | | |
|---------------------------|--|-----------------------|--|
| Cooler Security | <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"/> |

- | | |
|------------------------------|--|
| Cooler Temperature | <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 |

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

- | | | | |
|---|-------------------------------------|--------------------------|----------|
| Sample Integrity - Documentation | <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"/> | |

- | | | | |
|-------------------------------------|-------------------------------------|--------------------------|----------|
| Sample Integrity - Condition | <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 | | |

- | | | | | |
|---|-------------------------------------|-------------------------------------|----------|-------------------------------------|
| Sample Integrity - Instructions | <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: JB45141
Account: PROVLABR Providence Engineering
Project: Valero-CAMS, Baton Rouge, LA
Received: 08/19/13

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
A183	6	29.4	07/09/13	FZ	CP6305	W42623.D	JB45141-1	08/19/13	RC	7.5			1

Accutest Bottle Order(s):
 VP-7/9/2013-3

Prep Date **Room Temp(F)** **Bar Pres "Hg**
 07/09/13 70 29.92