

Technical Report for

Providence Engineering

Valero-CAMS, Baton Rouge, LA

712-001

Accutest Job Number: JC2869

Sampling Date: 08/27/15

Report to:

Providence Engineering

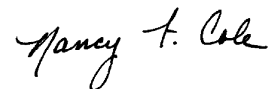
kevincalhoun@providenceeng.com

ATTN: Kevin Calhoun

Total number of pages in report: **11**



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), AK (UST-103), AZ (AZ0786), PA, RI, SC, TN, TX, 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: JC2869

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

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
JC2869-1	08/27/15	13:00 KH	09/02/15	AIR	Ambient Air Grab	CAMS 245

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	CAMS 245	Date Sampled:	08/27/15
Lab Sample ID:	JC2869-1	Date Received:	09/02/15
Matrix:	AIR - Ambient Air Grab Summa ID: A480	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	5W13678.D	1	09/02/15	YMH	n/a	n/a	V5W541
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	8.3	0.20	0.032	ppbv		20	0.48	0.076	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.031	ppbv		ND	0.44	0.069	ug/m3
71-43-2	78.11	Benzene	0.099	0.20	0.030	ppbv	J	0.32	0.64	0.096	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.20	0.032	ppbv		ND	1.3	0.21	ug/m3
75-25-2	252.8	Bromoform	ND	0.20	0.020	ppbv		ND	2.1	0.21	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.022	ppbv		ND	0.78	0.085	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.020	ppbv		ND	0.87	0.087	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.026	ppbv		ND	1.0	0.13	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.20	0.029	ppbv		ND	0.62	0.090	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.032	ppbv		ND	0.92	0.15	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.022	ppbv		ND	0.53	0.058	ug/m3
67-66-3	119.4	Chloroform	ND	0.20	0.031	ppbv		ND	0.98	0.15	ug/m3
74-87-3	50.49	Chloromethane	0.68	0.20	0.029	ppbv		1.4	0.41	0.060	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	0.033	ppbv		ND	1.0	0.17	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.20	0.025	ppbv		ND	1.3	0.16	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	0.032	ppbv		ND	0.69	0.11	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.031	ppbv		ND	0.81	0.13	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	0.11	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.20	0.035	ppbv		ND	1.5	0.27	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.026	ppbv		ND	0.81	0.11	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.050	ppbv		ND	0.92	0.23	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.063	ppbv		ND	0.72	0.23	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.52	0.20	0.037	ppbv		2.6	0.99	0.18	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.20	0.041	ppbv		ND	1.7	0.35	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.020	ppbv		ND	0.79	0.079	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	0.035	ppbv		ND	0.91	0.16	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	0.030	ppbv		ND	1.2	0.18	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.20	0.019	ppbv		ND	1.2	0.11	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.020	ppbv		ND	0.91	0.091	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 245	Date Sampled:	08/27/15
Lab Sample ID:	JC2869-1	Date Received:	09/02/15
Matrix:	AIR - Ambient Air Grab Summa ID: A480	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	2.3	0.50	0.17	ppbv		4.3	0.94	0.32	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.20	0.048	ppbv		ND	0.87	0.21	ug/m3
141-78-6	88	Ethyl Acetate	ND	0.20	0.064	ppbv		ND	0.72	0.23	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.20	0.022	ppbv		ND	0.98	0.11	ug/m3
76-13-1	187.4	Freon 113	ND	0.20	0.027	ppbv		ND	1.5	0.21	ug/m3
76-14-2	170.9	Freon 114	ND	0.20	0.025	ppbv		ND	1.4	0.17	ug/m3
142-82-5	100.2	Heptane	ND	0.20	0.029	ppbv		ND	0.82	0.12	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.20	0.033	ppbv		ND	2.1	0.35	ug/m3
110-54-3	86.17	Hexane	0.20	0.20	0.028	ppbv		0.70	0.70	0.099	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.044	ppbv		ND	0.82	0.18	ug/m3
67-63-0	60.1	Isopropyl Alcohol	0.56	0.20	0.12	ppbv		1.4	0.49	0.29	ug/m3
75-09-2	84.94	Methylene chloride	0.20	0.20	0.13	ppbv		0.69	0.69	0.45	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.63	0.20	0.049	ppbv		1.9	0.59	0.14	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.027	ppbv		ND	0.82	0.11	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.026	ppbv		ND	0.72	0.094	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.030	ppbv		ND	0.82	0.12	ug/m3
115-07-1	42	Propylene	ND	0.50	0.081	ppbv		ND	0.86	0.14	ug/m3
100-42-5	104.1	Styrene	ND	0.20	0.026	ppbv		ND	0.85	0.11	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.20	0.032	ppbv		ND	1.1	0.17	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	0.036	ppbv		ND	1.1	0.20	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.20	0.044	ppbv		ND	1.5	0.33	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	ND	0.20	0.023	ppbv		ND	0.98	0.11	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.20	0.030	ppbv		ND	0.98	0.15	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.20	0.021	ppbv		ND	0.93	0.098	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	0.27	0.20	0.050	ppbv		0.82	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	0.043	ppbv		ND	0.59	0.13	ug/m3
108-88-3	92.14	Toluene	0.15	0.20	0.020	ppbv	J	0.57	0.75	0.075	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.040	0.025	ppbv		ND	0.21	0.13	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.25	0.20	0.020	ppbv		1.4	1.1	0.11	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.032	ppbv		ND	0.51	0.082	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.055	ppbv		ND	0.70	0.19	ug/m3
	106.2	m,p-Xylene	0.10	0.20	0.043	ppbv	J	0.43	0.87	0.19	ug/m3
95-47-6	106.2	o-Xylene	ND	0.20	0.026	ppbv		ND	0.87	0.11	ug/m3
1330-20-7	106.2	Xylenes (total)	0.10	0.20	0.026	ppbv	J	0.43	0.87	0.11	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	108%		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 # 625063557111 Sample Collection # V1-815/2015-17
Lab Quote # Lab Job # JC2869

Client / Reporting Information				Project Name				Weather Parameters				Requested Analysis								
Company Name: <u>Providence Engr</u>				Project Name: <u>Valero Refineries</u>				Temperature (Fahrenheit)				Standard TO-15 Reporting List								
Address: <u>1201 Main St</u>				Street:				Start: Maximum:												
City: <u>Biz</u> State: <u>CA</u> Zip: <u>70802</u>				City: <u>Meraux</u> State: <u>LA</u>				Stop: Minimum:												
Project Contact: <u>Paul Hollis @ providence engr. co.</u>				Project # <u>712-001</u>				Atmospheric Pressure (Inches of Hg)												
Phone # <u>225-766-7100</u> Fax # <u>7140-7140</u>				Client Purchase Order #				Start: Maximum:												
Sampler(s) Name(s): <u>K 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 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.					
<u>1</u>	<u>CAME 244</u>	<u>A</u>	<u>A480</u>	<u>6L</u>	<u>-</u>	<u>8/26</u>	<u>1300</u>	<u>0.01</u>	<u>75</u>	<u>KA</u>	<u>8/27</u>	<u>1300</u>	<u>11.16</u>	<u>75</u>	<u>KH</u>	✓				
/																				
Turnaround Time (Business Days)				Data Deliverable Information				Comments / Remarks												
Standard - 15 Days <input type="checkbox"/> 10 Day <input checked="" 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: <u>NL4A</u> INITIAL ASSESSMENT LABEL VERIFY: <u>OB</u>				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:				<u>CCC seal</u> <u>K Hudson 626</u> <u>summary</u>								
Sample Custody must be documented below each time samples change possession, including courier delivery.																				
Relinquished by Lab:	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:	Date/Time:	Received By:			
<u>Ray Mancoske</u>	<u>8/31/15 14:15</u>	<u>FedEx</u>	<u>FedEx</u>	<u>9/1/15 10:10</u>	<u>FedEx</u>	<u>FedEx</u>	<u>9/1/15 10:10</u>	<u>FedEx</u>	<u>FedEx</u>	<u>9/1/15 10:10</u>	<u>FedEx</u>	<u>FedEx</u>	<u>9/1/15 10:10</u>	<u>FedEx</u>	<u>FedEx</u>	<u>9/1/15 10:10</u>	<u>FedEx</u>			

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3

Accutest Job Number: JC2869 **Client:** _____ **Project:** _____
Date / Time Received: 9/2/2015 10:10:00 AM **Delivery Method:** _____ **Airbill #s:** _____

Cooler Temps (Raw Measured) °C: _____
 Cooler Temps (Corrected) °C: _____

- Cooler Security**
- | | |
|--|--|
| Y or N | Y or N |
| 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. Smp'l Dates/Time OK: <input checked="" type="checkbox"/> <input type="checkbox"/> |

- Cooler Temperature**
- | | |
|---|---|
| Y or N | |
| 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**
- | | | | | |
|---------------------------------|-------------------------------------|-------------------------------------|--------------------------|-------------------------------------|
| | Y | or | N | N/A |
| 1. Trip Blank present / cooler: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Trip Blank listed on COC: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. Samples preserved properly: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. VOCs headspace free: | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

- Sample Integrity - Documentation**
- | | |
|--|--|
| | Y or N |
| 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**
- | | |
|----------------------------------|--|
| | Y or N |
| 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**
- | | | | | |
|--|-------------------------------------|--------------------------|-------------------------------------|-------------------------------------|
| | Y | or | N | N/A |
| 1. Analysis requested is clear: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Bottles received for unspecified tests: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Sufficient volume recvd for analysis: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. Compositing instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Comments

3.1
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CHAIN OF CUSTODY

Air Sampling Field Data Sheet

FED-EX Tracking # 625013557111 Lab Order # VI-813/2015-17
 Lab Job # 2869

PAGE 1 OF 1

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Company Name <u>Providence Engr</u>				Project Name <u>Valero Refineries</u>				Weather Parameters				Requested Analysis							
Address <u>1201 Main St</u>				Street <u>Valero Refineries</u>				Temperature (Fahrenheit)											
City <u>Biz</u> State <u>CA</u> Zip <u>70802</u>				City <u>Meraux</u> State <u>LA</u>				Start: Maximum:											
Project Contact: <u>Paul Hollis @ providence engr. co.</u>				Project # <u>712-001</u>				Stop: Minimum:											
Phone # <u>225-766-7100</u> Fax # <u>-7140</u>				Client Purchase Order #				Atmospheric Pressure (inches of Hg)											
Sampler(s) Name(s) <u>K Hudson</u>				Other weather comment:				Start: Maximum:											
Stop: Minimum:				Air Type				Sampling Equipment Info				Start Sampling Information				Stop Sampling Information			
Lab Sample #	Field ID / Point of Collection	Indoor(I) Soil Vap(SV) Ambient(A)	Canister Serial #	Canister Size (L or TL)	Flow Controller Serial #	Date	Time (24hr clock)	Canister Pressure (Tg)	Interior Temp (F)	Sampler Init	Date	Time (24hr clock)	Canister Pressure (Tg)	Interior Temp (F)	Sampler Init	Standard TO-15 Reporting List			
<u>1</u>	<u>CPMC 244 245 (LA)</u>	<u>A</u>	<u>A480</u>	<u>6L</u>	<u>-</u>	<u>8/26</u>	<u>1300</u>	<u>0.01</u>	<u>75</u>	<u>KA</u>	<u>8/27</u>	<u>1300</u>	<u>11.14</u>	<u>75</u>	<u>KA</u>	<input checked="" type="checkbox"/>			
Turnaround Time (Business Days)				Data Deliverable Information				Comments / Remarks											
Standard - 15 Days				Approved By: <u>HL HA</u>				All NJDEP TO-15 is mandatory Full T1				<u>CCC seal 626</u> <u>K Hudson</u>							
10 Day				INITIAL ASSESSMENT				Comm A											
5 Day				LABEL VERIFY: <u>OB</u>				Comm B											
3 Day				Date: <u>OB</u>				Reduced T2											
2 Day								Full T1											
1 Day								Other:											
Other																			
Sample Custody must be documented below each time samples change possession, including courier delivery.																			
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:	Date/Time:			
<u>1</u> <u>Ray Marcano</u>	<u>8/27/15 14:15</u>	<u>1</u> <u>FedEx</u>	<u>2</u> <u>FedEx</u>	<u>9/1/15 10:10</u>	<u>2</u> <u>FedEx</u>	<u>3</u> <u>FED EX</u>	<u>4</u> <u>FED EX</u>	<u>7/27/15 10:10</u>	<u>4</u> <u>FED EX</u>	<u>626</u>	<u>5</u> <u>FED EX</u>	<u>626</u>	<u>626</u>	<u>626</u>	<u>626</u>	<u>626</u>			



Summa Canister and Flow Controller Log

Job Number: JC2869
Account: PROVLABR Providence Engineering
Project: Valero-CAMS, Baton Rouge, LA
Received: 09/02/15

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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
A480	6	29.4	07/28/15	RD	CP7875	3W49019.D	JC2869-1	09/02/15	RD	7.5			1

Accutest Bottle Order(s):
 VP-7/28/2015-2

Prep Date **Room Temp(F)** **Bar Pres "Hg**
 07/28/15 70 29.92