

Technical Report for

Providence Engineering

Valero-CAMS, Baton Rouge, LA

712-001

SGS Accutest Job Number: JC42892

Sampling Date: 05/06/17

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, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, 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: JC42892

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

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
JC42892-1	05/06/17	13:00 KH	05/09/17	AIR	Ambient Air Comp.	CAMS 348

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: CAMS 348	Date Sampled: 05/06/17
Lab Sample ID: JC42892-1	Date Received: 05/09/17
Matrix: AIR - Ambient Air Comp. Summa ID: M008	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	3W59894.D	1	05/12/17 00:08	TCH	n/a	n/a	V3W2276
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	0.062	ppbv		10	0.48	0.15	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.028	ppbv		ND	0.44	0.062	ug/m3
71-43-2	78.11	Benzene	0.15	0.20	0.026	ppbv	J	0.48	0.64	0.083	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	0.018	ppbv		ND	2.1	0.19	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	0.016	ppbv		ND	0.87	0.070	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.021	ppbv		ND	1.0	0.11	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.20	0.033	ppbv		ND	0.62	0.10	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.017	ppbv		ND	0.92	0.078	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.036	ppbv		ND	0.53	0.095	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	0.62	0.20	0.065	ppbv		1.3	0.41	0.13	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	0.036	ppbv		ND	1.0	0.19	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	ND	0.20	0.035	ppbv		ND	0.69	0.12	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.033	ppbv		ND	0.81	0.13	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.033	ppbv		ND	0.79	0.13	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.20	0.022	ppbv		ND	1.5	0.17	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	0.033	ppbv		ND	0.92	0.15	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.047	ppbv		ND	0.72	0.17	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.45	0.20	0.025	ppbv		2.2	0.99	0.12	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.20	0.025	ppbv		ND	1.7	0.21	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.026	ppbv		ND	0.79	0.10	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.034	ppbv		ND	0.79	0.13	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.023	ppbv		ND	0.91	0.10	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.20	0.029	ppbv		ND	1.2	0.17	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.20	0.028	ppbv		ND	1.2	0.17	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.20	0.029	ppbv		ND	1.2	0.17	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.029	ppbv		ND	0.91	0.13	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 348		
Lab Sample ID: JC42892-1		Date Sampled: 05/06/17
Matrix: AIR - Ambient Air Comp. Summa ID: M008		Date Received: 05/09/17
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	2.2	0.50	0.095	ppbv		4.1	0.94	0.18	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.20	0.023	ppbv		ND	0.87	0.10	ug/m3
141-78-6	88	Ethyl Acetate	0.61	0.20	0.065	ppbv		2.2	0.72	0.23	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	0.024	ppbv		ND	1.5	0.18	ug/m3
76-14-2	170.9	Freon 114	ND	0.20	0.024	ppbv		ND	1.4	0.17	ug/m3
142-82-5	100.2	Heptane	0.11	0.20	0.046	ppbv	J	0.45	0.82	0.19	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.20	0.024	ppbv		ND	2.1	0.26	ug/m3
110-54-3	86.17	Hexane	0.24	0.20	0.026	ppbv		0.85	0.70	0.092	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.041	ppbv		ND	0.82	0.17	ug/m3
67-63-0	60.1	Isopropyl Alcohol	0.44	0.20	0.090	ppbv		1.1	0.49	0.22	ug/m3
75-09-2	84.94	Methylene chloride	0.25	0.20	0.033	ppbv		0.87	0.69	0.11	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.61	0.20	0.043	ppbv		1.8	0.59	0.13	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.057	ppbv		ND	0.82	0.23	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.019	ppbv		ND	0.72	0.069	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.044	ppbv		ND	0.82	0.18	ug/m3
115-07-1	42	Propylene	ND	0.50	0.059	ppbv		ND	0.86	0.10	ug/m3
100-42-5	104.1	Styrene	ND	0.20	0.046	ppbv		ND	0.85	0.20	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.20	0.017	ppbv		ND	1.1	0.093	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.20	0.036	ppbv		ND	1.4	0.25	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.20	0.022	ppbv		ND	1.1	0.12	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.20	0.038	ppbv		ND	1.5	0.28	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	ND	0.20	0.051	ppbv		ND	0.98	0.25	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	0.10	0.20	0.026	ppbv	J	0.47	0.93	0.12	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.026	ppbv		ND	0.61	0.079	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.040	0.016	ppbv		ND	0.27	0.11	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	0.36	0.20	0.029	ppbv		1.4	0.75	0.11	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.040	0.012	ppbv		ND	0.21	0.064	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.21	0.20	0.015	ppbv		1.2	1.1	0.084	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.038	ppbv		ND	0.51	0.097	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.027	ppbv		ND	0.70	0.095	ug/m3
	106.2	m,p-Xylene	0.27	0.20	0.067	ppbv		1.2	0.87	0.29	ug/m3
95-47-6	106.2	o-Xylene	ND	0.20	0.035	ppbv		ND	0.87	0.15	ug/m3
1330-20-7	106.2	Xylenes (total)	0.27	0.20	0.035	ppbv		1.2	0.87	0.15	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	94%		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

AIR CHAIN OF CUSTODY

SGS Accutest - Dayton
2335 Route 130, Dayton, NJ 08810
TEL: 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

FED-EX Tracking # *6180 9741 8650* Batch / Order Control # *VP-042517-71* PAGE *1* OF *1*
Lab Quote # *JC42892* Lab Job # *JC42892*

PN

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Client / Reporting Information			Project Information					Weather Parameters					Requested Analysis			
Company Name <i>Providence Engr</i>			Project Name: <i>Valero Refining</i>					Temperature (Fahrenheit)					Requested Analysis			
Address <i>1201 Main St</i>			Street					Start: Maximum:								
City <i>B12</i> State <i>LA</i> Zip <i>70802</i>			City <i>Meraux</i> State <i>LA</i>					Stop: Minimum:								
Project Contact <i>Paul Hollis @ providenceeng.com</i>			Project # <i>712-001</i>					Atmospheric Pressure (inches of Hg)								
Phone # <i>225-766-7440</i> Fax # <i>-7440</i>			Client Purchase Order #					Start: Maximum:								
Sampler(s) Name(s) <i>K Hudson</i>			Other weather comment:					Stop: Minimum:					<i>70-15</i>			
		Air Type			Start Sampling Information					Stop Sampling Information						
Lab Sample #	Field ID / Point of Collection	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.
<i>1</i>	<i>Camx 348</i>	<i>A</i>	<i>01100062</i>	<i>0537</i>	<i>5-5</i>	<i>1300</i>	<i>30</i>	<i>75</i>	<i>KH</i>	<i>5-6</i>	<i>1300</i>	<i>1</i>		<i>75</i>	<i>KH</i>	<input checked="" type="checkbox"/>
Turnaround Time (Business days)			Data Deliverable Information					Comments / Remarks								
Standard - 15 Days 10 Day 5 Day 3 Day 2 Day 1 Day Other			Approved By: _____ Date: _____					All NJDEP TO-15 is mandatory Full T1 Comm A Comm B Reduced T2 Full T1 Other: DKQP reporting								
								<i>COC seal Fedex Ship INITIAL ASSESSMENT <i>Am4</i></i> LABEL VERIFICATION _____ Sample inventory is verified upon receipt in the Laboratory								
Sample Custody must be documented below each time samples change possession, including courier delivery.																
Relinquished by: <i>Gray Maignans</i>	Date/Time: <i>7/25/17 14:40</i>	Received By: <i>FELEx</i>	Relinquished By: <i>FELEx</i>	Date/Time: _____	Received By: _____	Relinquished By: <i>FX</i>	Date/Time: <i>5/9/17 950</i>	Received By: <i>DU</i>	Relinquished By: <i>FX</i>	Date/Time: _____	Received By: _____	Relinquished By: _____	Date/Time: _____	Received By: _____	Relinquished 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: _____	Relinquished 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: _____	Relinquished 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: _____	Relinquished By: _____	

SGS Accutest Sample Receipt Summary

Job Number: JC42892

Client: Providence Engineering

Project: Valero

Date / Time Received: 5/9/2017 9:50:00 AM

Delivery Method: FedEx

Airbill #'s: 678097418650

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. Smpl Dates/Time OK | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Cooler Temperature

Y or N

- | | | |
|------------------------------|--------------------------|--------------------------|
| 1. Temp criteria achieved: | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Cooler temp verification: | <u>N/A</u> | |
| 3. Cooler media: | <u>N/A</u> | |
| 4. No. Coolers: | <u>N/A</u> | |

Quality Control Preservation

Y or N

N/A

- | | | | |
|---------------------------------|-------------------------------------|--------------------------|-------------------------------------|
| 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"/> |

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: | <u>Intact</u> | |

Sample Integrity - Instructions

Y or N N/A

- | | | | |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 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

1) Did not receive Flow Controller.

SM089-02
Rev. Date 12/1/16

JC42892: Chain of Custody

Page 2 of 3

Responded to by: VP

Response Date: 5/9

Response:

Proceed as noted

JC42892: Chain of Custody
Page 3 of 3

Summa Canister and Flow Controller Log

Job Number: JC42892
Account: PROVLABR Providence Engineering
Project: Valero-CAMS, Baton Rouge, LA
Received: 05/09/17

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SUMMA CANISTERS													
Shipping							Receiving						
Summa ID	Vac L	Date " Hg	Date Out	By	SCC Batch	SCC FileID	Sample Number	Date In	By	Vac " Hg	Pres psig	Final psig	Dil Fact
M008	6	29.4	04/25/17	RD	CP9133	W59458.D	JC42892-1	05/09/17	RD	.5			1

SGS Accutest Bottle Order(s):
 VP_042517_71

Prep Date **Room Temp(F)** **Bar Pres "Hg**
 04/25/17 70 29.92