

Technical Report for

Providence Engineering

Valero-CAMS, Baton Rouge, LA

712-001

SGS Accutest Job Number: JC43891

Sampling Date: 05/12/17

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: JC43891

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

Sample Number	Collected		Matrix			Client Sample ID
	Date	Time By	Received	Code	Type	
JC43891-1	05/12/17	11:30 KH	05/23/17	AIR	Ambient Air Comp.	CAMS 349

Sample Results

Report of Analysis

Report of Analysis

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Client Sample ID: CAMS 349	Date Sampled: 05/12/17
Lab Sample ID: JC43891-1	Date Received: 05/23/17
Matrix: AIR - Ambient Air Comp. Summa ID: A1179	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 ^a	5W24698.D	3.22	06/15/17 22:42	DFT	n/a	n/a	V5W977
Run #2							

Run #	Initial Volume
Run #1	800 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	11.3	0.32	0.10	ppbv		26.8	0.76	0.24	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.32	0.045	ppbv		ND	0.71	0.10	ug/m3
71-43-2	78.11	Benzene	0.17	0.32	0.041	ppbv	J	0.54	1.0	0.13	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.32	0.047	ppbv		ND	2.1	0.31	ug/m3
75-25-2	252.8	Bromoform	ND	0.32	0.028	ppbv		ND	3.3	0.29	ug/m3
74-83-9	94.94	Bromomethane	ND	0.32	0.052	ppbv		ND	1.2	0.20	ug/m3
593-60-2	106.9	Bromoethene	ND	0.32	0.025	ppbv		ND	1.4	0.11	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.32	0.034	ppbv		ND	1.6	0.18	ug/m3
75-15-0	76.14	Carbon disulfide	0.16	0.32	0.053	ppbv	J	0.50	1.0	0.17	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.32	0.028	ppbv		ND	1.5	0.13	ug/m3
75-00-3	64.52	Chloroethane	ND	0.32	0.058	ppbv		ND	0.84	0.15	ug/m3
67-66-3	119.4	Chloroform	ND	0.32	0.050	ppbv		ND	1.6	0.24	ug/m3
74-87-3	50.49	Chloromethane	0.58	0.32	0.10	ppbv		1.2	0.66	0.21	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.32	0.059	ppbv		ND	1.0	0.18	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.32	0.058	ppbv		ND	1.7	0.30	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.32	0.032	ppbv		ND	2.0	0.20	ug/m3
110-82-7	84.16	Cyclohexane	0.25	0.32	0.057	ppbv	J	0.86	1.1	0.20	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.32	0.053	ppbv		ND	1.3	0.21	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.32	0.053	ppbv		ND	1.3	0.21	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.32	0.036	ppbv		ND	2.5	0.28	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.32	0.043	ppbv		ND	1.3	0.17	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.32	0.052	ppbv		ND	1.5	0.24	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.32	0.076	ppbv		ND	1.2	0.27	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.33	0.32	0.041	ppbv		1.6	1.6	0.20	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.32	0.040	ppbv		ND	2.7	0.34	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.32	0.041	ppbv		ND	1.3	0.16	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.32	0.054	ppbv		ND	1.3	0.21	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.32	0.037	ppbv		ND	1.5	0.17	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.32	0.047	ppbv		ND	1.9	0.28	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.32	0.045	ppbv		ND	1.9	0.27	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.32	0.047	ppbv		ND	1.9	0.28	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.32	0.047	ppbv		ND	1.5	0.21	ug/m3

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

Report of Analysis

Client Sample ID:	CAMS 349	Date Sampled:	05/12/17
Lab Sample ID:	JC43891-1	Date Received:	05/23/17
Matrix:	AIR - Ambient Air Comp. Summa ID: A1179	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	4.5	0.81	0.15	ppbv		8.5	1.5	0.28	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.32	0.037	ppbv		ND	1.4	0.16	ug/m3
141-78-6	88	Ethyl Acetate	ND	0.32	0.10	ppbv		ND	1.2	0.36	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.32	0.045	ppbv		ND	1.6	0.22	ug/m3
76-13-1	187.4	Freon 113	ND	0.32	0.039	ppbv		ND	2.5	0.30	ug/m3
76-14-2	170.9	Freon 114	ND	0.32	0.039	ppbv		ND	2.2	0.27	ug/m3
142-82-5	100.2	Heptane	0.22	0.32	0.074	ppbv	J	0.90	1.3	0.30	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.32	0.039	ppbv		ND	3.4	0.42	ug/m3
110-54-3	86.17	Hexane	1.2	0.32	0.043	ppbv		4.2	1.1	0.15	ug/m3
591-78-6	100	2-Hexanone	ND	0.32	0.066	ppbv		ND	1.3	0.27	ug/m3
67-63-0	60.1	Isopropyl Alcohol	0.72	0.32	0.14	ppbv		1.8	0.79	0.34	ug/m3
75-09-2	84.94	Methylene chloride	1.5	0.32	0.053	ppbv		5.2	1.1	0.18	ug/m3
78-93-3	72.11	Methyl ethyl ketone	1.8	0.32	0.069	ppbv		5.3	0.94	0.20	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	1.1	0.32	0.092	ppbv		4.5	1.3	0.38	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.32	0.030	ppbv		ND	1.2	0.11	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.32	0.071	ppbv		ND	1.3	0.29	ug/m3
115-07-1	42	Propylene	ND	0.81	0.094	ppbv		ND	1.4	0.16	ug/m3
100-42-5	104.1	Styrene	ND	0.32	0.074	ppbv		ND	1.4	0.32	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.32	0.028	ppbv		ND	1.7	0.15	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.32	0.058	ppbv		ND	2.2	0.40	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.32	0.035	ppbv		ND	1.7	0.19	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.32	0.062	ppbv		ND	2.4	0.46	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	ND	0.32	0.082	ppbv		ND	1.6	0.40	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.32	0.049	ppbv		ND	1.6	0.24	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	0.17	0.32	0.043	ppbv	J	0.79	1.5	0.20	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.32	0.043	ppbv		ND	0.97	0.13	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.064	0.026	ppbv		ND	0.43	0.18	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.32	0.073	ppbv		ND	0.94	0.22	ug/m3
108-88-3	92.14	Toluene	0.53	0.32	0.046	ppbv		2.0	1.2	0.17	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.064	0.019	ppbv		ND	0.34	0.10	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.22	0.32	0.024	ppbv	J	1.2	1.8	0.13	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.32	0.061	ppbv		ND	0.82	0.16	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.32	0.044	ppbv		ND	1.1	0.15	ug/m3
	106.2	m,p-Xylene	0.32	0.32	0.11	ppbv		1.4	1.4	0.48	ug/m3
95-47-6	106.2	o-Xylene	0.17	0.32	0.056	ppbv	J	0.74	1.4	0.24	ug/m3
1330-20-7	106.2	Xylenes (total)	0.50	0.32	0.056	ppbv		2.2	1.4	0.24	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	102%		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

Report of Analysis

Client Sample ID: CAMS 349		
Lab Sample ID: JC43891-1		Date Sampled: 05/12/17
Matrix: AIR - Ambient Air Comp.	Summa ID: A1179	Date Received: 05/23/17
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
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(a) Sample analyzed outside the holding time. Originally run within holding time; however, data lost from computer hard drive due to computer virus. Subsequent attempt at reanalysis failed due to autosampler error, which left low sample volume.

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



ACCUTEST

AIR CHAIN OF CUSTODY

SGS Accutest - Dayton
2255 Route 130, Dayton, NJ 08810
TEL: 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

FED-EX Tracking #
7250 6929 8033
Lab Quote #

Batch / Job Control #
VP-051217-205
Lab Job #
JC43891

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Client / Reporting Information				Project Information				Weather Parameters				Requested Analysis				
Company Name: Providence Engr				Project Name: Valero Refining				Temperature (Fahrenheit)				Requested Analysis				
Address: 1201 Main St				Street: Meraux				Start: Maximum:								
City: BR State: LA Zip: 70802				City: Meraux State: LA				Stop: Minimum:								
Project Contact: paul.hollise@providenceeng.com				Project #: 712-001				Atmospheric Pressure (inches of Hg)								
Phone #: 225-766-7400 Fax #: -7440				Client Purchase Order #				Start: Maximum:				Other weather comment:				
Sampler(s) Name(s): R Hudson								Stop: Minimum:								
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 (H _g)	Interior Temp (F)	Sampler Init.	Date	Time (24hr clock)	Canister Pressure (H _g)	Interior Temp (F)	Sampler Init.	
1	Canus 349	A	A1179	6L	C537	5-11	1130	30	75	104	5-12	1130	5	75	104	✓
Turnaround Time (Business days)		Approved By:			Data 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: _____ DKQP reporting					COC sat FedEx Ship INITIAL ASSESSMENT <u>IB</u> LABEL VERIFICATION <u>W</u> 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:	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:
1	5/15/17 11:49	FedEx	2		FedEx	3		FX	4	5/23/17 9:10		5				
3		FX	4		FX	5										
5																

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JC43891: Chain of Custody

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SGS Accutest Sample Receipt Summary

Job Number: JC43891

Client: _____

Project: _____

Date / Time Received: 5/23/2017 9:10:00 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. 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: | N/A | |
| 3. Cooler media: | N/A | |
| 4. No. Coolers: | N/A | |

Quality Control Preservation

Y or N

N/A

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

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"/> | |
| 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

SM089-02
Rev. Date 12/1/16

JC43891: Chain of Custody

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3.1
3

Summa Canister and Flow Controller Log

Job Number: JC43891
Account: PROVLABR Providence Engineering
Project: Valero-CAMS, Baton Rouge, LA
Received: 05/23/17

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3

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

A1179	6	29.4	04/25/17	RD	CP9136	5W23871.D	JC43891-1	05/24/17	PC	5.5			1
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SGS Accutest Bottle Order(s):
 VP_042517_71

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