

Technical Report for

Providence Engineering

Valero-CAMS, Baton Rouge, LA

712-001

SGS Accutest Job Number: JC13755

Sampling Date: 01/30/16

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 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: JC13755

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

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
JC13755-1	01/30/16	13:00 KH	02/05/16	AIR	Ambient Air Grab	CAMS 271

Sample Results

Report of Analysis

Report of Analysis

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Client Sample ID:	CAMS 271	Date Sampled:	01/30/16
Lab Sample ID:	JC13755-1	Date Received:	02/05/16
Matrix:	AIR - Ambient Air Grab Summa ID: A313	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	5W16082.D	1.52	02/05/16	TCH	n/a	n/a	V5W647
Run #2							

Run #	Initial Volume
Run #1	608 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	4.9	0.20	0.036	ppbv		12	0.48	0.086	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	0.47	0.20	0.031	ppbv		1.5	0.64	0.099	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.20	0.039	ppbv		ND	1.3	0.26	ug/m3
75-25-2	252.8	Bromoform	ND	0.20	0.016	ppbv		ND	2.1	0.17	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.018	ppbv		ND	0.78	0.070	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.018	ppbv		ND	0.87	0.079	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.027	ppbv		ND	1.0	0.14	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.20	0.031	ppbv		ND	0.62	0.097	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.056	ppbv		ND	0.92	0.26	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	0.017	ppbv		ND	0.98	0.083	ug/m3
74-87-3	50.49	Chloromethane	0.84	0.20	0.052	ppbv		1.7	0.41	0.11	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.027	ppbv		ND	0.63	0.085	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.017	ppbv		ND	1.0	0.088	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.20	0.031	ppbv		ND	1.3	0.20	ug/m3
110-82-7	84.16	Cyclohexane	0.38	0.20	0.016	ppbv		1.3	0.69	0.055	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.015	ppbv		ND	0.81	0.061	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	0.042	ppbv		ND	1.5	0.32	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.018	ppbv		ND	0.81	0.073	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.022	ppbv		ND	0.92	0.10	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.045	ppbv		ND	0.72	0.16	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.64	0.20	0.019	ppbv		3.2	0.99	0.094	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.20	0.053	ppbv		ND	1.7	0.45	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	0.11	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.021	ppbv		ND	0.79	0.083	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.015	ppbv		ND	0.91	0.068	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.20	0.020	ppbv		ND	1.2	0.12	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.20	0.016	ppbv		ND	1.2	0.096	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.20	0.027	ppbv		ND	1.2	0.16	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.018	ppbv		ND	0.91	0.082	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 271		
Lab Sample ID: JC13755-1		Date Sampled: 01/30/16
Matrix: AIR - Ambient Air Grab	Summa ID: A313	Date Received: 02/05/16
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	5.5	0.50	0.075	ppbv		10	0.94	0.14	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.20	0.042	ppbv		ND	0.87	0.18	ug/m3
141-78-6	88	Ethyl Acetate	ND	0.20	0.075	ppbv		ND	0.72	0.27	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.20	0.017	ppbv		ND	0.98	0.084	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	0.031	ppbv		ND	1.4	0.22	ug/m3
142-82-5	100.2	Heptane	0.31	0.20	0.020	ppbv		1.3	0.82	0.082	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.20	0.020	ppbv		ND	2.1	0.21	ug/m3
110-54-3	86.17	Hexane	1.0	0.20	0.023	ppbv		3.5	0.70	0.081	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.045	ppbv		ND	0.82	0.18	ug/m3
67-63-0	60.1	Isopropyl Alcohol	0.67	0.20	0.16	ppbv		1.6	0.49	0.39	ug/m3
75-09-2	84.94	Methylene chloride	0.15	0.20	0.025	ppbv	J	0.52	0.69	0.087	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.72	0.20	0.048	ppbv		2.1	0.59	0.14	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.055	ppbv		ND	0.82	0.23	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.020	ppbv		ND	0.72	0.072	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	0.032	ppbv		ND	0.86	0.055	ug/m3
100-42-5	104.1	Styrene	ND	0.20	0.015	ppbv		ND	0.85	0.064	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.20	0.024	ppbv		ND	1.1	0.13	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.20	0.016	ppbv		ND	1.4	0.11	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.20	0.039	ppbv		ND	1.1	0.21	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.20	0.056	ppbv		ND	1.5	0.42	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	ND	0.20	0.015	ppbv		ND	0.98	0.074	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.20	0.045	ppbv		ND	0.98	0.22	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.20	0.023	ppbv		ND	0.93	0.11	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	0.14	0.20	0.053	ppbv	J	0.42	0.61	0.16	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.040	0.023	ppbv		ND	0.27	0.16	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	0.67	0.20	0.012	ppbv		2.5	0.75	0.045	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	0.30	0.20	0.022	ppbv		1.7	1.1	0.12	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.021	ppbv		ND	0.51	0.054	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.054	ppbv		ND	0.70	0.19	ug/m3
	106.2	m,p-Xylene	0.24	0.20	0.068	ppbv		1.0	0.87	0.30	ug/m3
95-47-6	106.2	o-Xylene	ND	0.20	0.051	ppbv		ND	0.87	0.22	ug/m3
1330-20-7	106.2	Xylenes (total)	0.24	0.20	0.051	ppbv		1.0	0.87	0.22	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	101%		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

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CHAIN OF CUSTODY

Air Sampling Field Data Sheet

FED-EX Tracking # 6514 9165 4303

Batch Order Control # RP-1128/296-287
Lab Job # JC13755

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Client / Reporting Information						Weather Parameters					Requested Analysis									
Company Name: Providence Engr			Project Name: Valero Refining			Temperature (Fahrenheit)					Requested Analysis									
Address: 1201 Main St			Street			Start: Maximum:														
City: BR State: CA Zip: 70802			City: Meroux State: CA			Stop: Minimum:														
Project Contact: paul.hollis@providenceenr.com			Project #: 712-001			Atmospheric Pressure (inches of Hg)														
Phone #: 225 766-7400 Fax #: -7410			Client Purchase Order #			Start: Maximum:														
Sampler(s) Name(s): 12 Hudson						Stop: Minimum:					Standard TO-15 Reporting List									
						Other weather comment:														
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.					
1	CANIS 271	A	A3136L	-	1-29	1300	0.01	75	12H	1-30	1300	0.86	75	12H	✓					
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: <u>HA/BV</u> INITIAL ASSESSMENT Date: <u>BV</u> LABEL VERIFICATION					All NJDEP TO-15 is mandatory Full T1 Comm A Comm B Reduced T2 Full T1 Other:					COC sul # 740				
Sample Custody must be documented below each time samples change possession, including courier delivery.																				
Relinquished by: <u>Paul Hollis</u>		Date/Time: <u>1/28/16 10:20</u>		Received By: <u>FedEx</u>		Relinquished By: <u>FedEx</u>		Date Time: <u>2/3/16 9:50</u>		Received By: <u>Paul Hollis</u>		Relinquished by: <u>Paul Hollis</u>		Date Time: <u>2/3/16 9:50</u>		Received By: <u>Paul Hollis</u>				
Relinquished by: <u>Paul Hollis</u>		Date Time: <u>1/28/16</u>		Received By: <u>FedEx</u>		Relinquished By: <u>FedEx</u>		Date Time: <u>2/3/16 9:50</u>		Received By: <u>Paul Hollis</u>		Relinquished by: <u>Paul Hollis</u>		Date Time: <u>2/3/16 9:50</u>		Received By: <u>Paul Hollis</u>				
Relinquished by: <u>Paul Hollis</u>		Date Time: <u>1/28/16</u>		Received By: <u>FedEx</u>		Relinquished By: <u>FedEx</u>		Date Time: <u>2/3/16 9:50</u>		Received By: <u>Paul Hollis</u>		Relinquished by: <u>Paul Hollis</u>		Date Time: <u>2/3/16 9:50</u>		Received By: <u>Paul Hollis</u>				
Relinquished by: <u>Paul Hollis</u>		Date Time: <u>1/28/16</u>		Received By: <u>FedEx</u>		Relinquished By: <u>FedEx</u>		Date Time: <u>2/3/16 9:50</u>		Received By: <u>Paul Hollis</u>		Relinquished by: <u>Paul Hollis</u>		Date Time: <u>2/3/16 9:50</u>		Received By: <u>Paul Hollis</u>				

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JC13755: Chain of Custody

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Accutest Job Number: JC13755 **Client:** _____ **Project:** _____
Date / Time Received: 2/5/2016 9:30:00 AM **Delivery Method:** _____ **Airbill #s:** _____

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

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 type="checkbox"/>	<input type="checkbox"/>
2. Cooler temp verification:	N/A	
3. Cooler media:	N/A	
4. No. Coolers:	N/A	

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 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		<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

3.1
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Summa Canister and Flow Controller Log

Job Number: JC13755
Account: PROVLABR Providence Engineering
Project: Valero-CAMS, Baton Rouge, LA
Received: 02/05/16

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SUMMA CANISTERS													
Shipping							Receiving						
Summa ID	Vac L	Date " Hg Out	By	SCC Batch	SCC FileID	Sample Number	Date In	By	Vac " Hg	Pres psig	Final psig	Dil Fact	
A313	6	29.4	01/25/16	RD	CP8192	3W52124.D	JC13755-1	02/05/16	LM	8.5		1.3	1.52

SGS Accutest Bottle Order(s):
 KP-1/25/2016-1987

Prep Date **Room Temp(F)** **Bar Pres "Hg**
 01/25/16 70 29.92