

Technical Report for

Providence Engineering

Valero-CAMS, Baton Rouge, LA

712-001

Accutest Job Number: JB85113

Sampling Date: 12/18/14

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 F. Cole

Nancy Cole
Laboratory Director

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Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), AZ (AZ0786), PA, RI, SC, TN, 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: JB85113

Valero-CAMS, Baton Rouge, LA

Project No: 712-001

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
JB85113-1	12/18/14	13:00 KH	12/29/14	AIR	Ambient Air Grab	CAMS 203

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	CAMS 203	Date Sampled:	12/18/14
Lab Sample ID:	JB85113-1	Date Received:	12/29/14
Matrix:	AIR - Ambient Air Grab	Summa ID:	A485
Method:	TO-15	Percent Solids:	n/a
Project:	Valero-CAMS, Baton Rouge, LA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5W8786.D	1	12/29/14	ML	n/a	n/a	V5W344
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	7.7	0.20	0.11	ppbv		18	0.48	0.26	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.034	ppbv		ND	0.44	0.075	ug/m3
71-43-2	78.11	Benzene	0.37	0.20	0.025	ppbv		1.2	0.64	0.080	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	0.035	ppbv		ND	2.1	0.36	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	0.035	ppbv		ND	0.87	0.15	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.047	ppbv		ND	1.0	0.24	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	0.034	ppbv		ND	0.92	0.16	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.042	ppbv		ND	0.53	0.11	ug/m3
67-66-3	119.4	Chloroform	ND	0.20	0.024	ppbv		ND	0.98	0.12	ug/m3
74-87-3	50.49	Chloromethane	0.87	0.20	0.079	ppbv		1.8	0.41	0.16	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	0.032	ppbv		ND	1.0	0.17	ug/m3
56-23-5	153.8	Carbon tetrachloride	0.12	0.20	0.025	ppbv	J	0.75	1.3	0.16	ug/m3
110-82-7	84.16	Cyclohexane	0.18	0.20	0.027	ppbv	J	0.62	0.69	0.093	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.027	ppbv		ND	0.81	0.11	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.052	ppbv		ND	0.79	0.21	ug/m3
106-93-4	187.9	1,2-Dibromoethane	11.5	0.20	0.027	ppbv		88.4	1.5	0.21	ug/m3
107-06-2	98.96	1,2-Dichloroethane	0.34	0.20	0.023	ppbv		1.4	0.81	0.093	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.029	ppbv		ND	0.92	0.13	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.12	ppbv		ND	0.72	0.43	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.74	0.20	0.030	ppbv		3.7	0.99	0.15	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.20	0.038	ppbv		ND	1.7	0.32	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.070	ppbv		ND	0.79	0.28	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.023	ppbv		ND	0.79	0.091	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.025	ppbv		ND	0.91	0.11	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.20	0.033	ppbv		ND	1.2	0.20	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	0.037	ppbv		ND	1.2	0.22	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.025	ppbv		ND	0.91	0.11	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 203	Date Sampled:	12/18/14
Lab Sample ID:	JB85113-1	Date Received:	12/29/14
Matrix:	AIR - Ambient Air Grab Summa ID: A485	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	3.7	0.50	0.17	ppbv		7.0	0.94	0.32	ug/m3
100-41-4	106.2	Ethylbenzene	0.11	0.20	0.035	ppbv	J	0.48	0.87	0.15	ug/m3
141-78-6	88	Ethyl Acetate	0.46	0.20	0.061	ppbv		1.7	0.72	0.22	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.20	0.032	ppbv		ND	0.98	0.16	ug/m3
76-13-1	187.4	Freon 113	0.10	0.20	0.040	ppbv	J	0.77	1.5	0.31	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	0.21	0.20	0.021	ppbv		0.86	0.82	0.086	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.20	0.051	ppbv		ND	2.1	0.54	ug/m3
110-54-3	86.17	Hexane	0.77	0.20	0.042	ppbv		2.7	0.70	0.15	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.064	ppbv		ND	0.82	0.26	ug/m3
67-63-0	60.1	Isopropyl Alcohol	1.3	0.20	0.066	ppbv		3.2	0.49	0.16	ug/m3
75-09-2	84.94	Methylene chloride	0.72	0.20	0.13	ppbv		2.5	0.69	0.45	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.87	0.20	0.040	ppbv		2.6	0.59	0.12	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.042	ppbv		ND	0.82	0.17	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.041	ppbv		ND	0.72	0.15	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.036	ppbv		ND	0.82	0.15	ug/m3
115-07-1	42	Propylene	ND	0.50	0.048	ppbv		ND	0.86	0.082	ug/m3
100-42-5	104.1	Styrene	ND	0.20	0.033	ppbv		ND	0.85	0.14	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	0.040	ppbv		ND	1.4	0.27	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.20	0.035	ppbv		ND	1.1	0.19	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.20	0.061	ppbv		ND	1.5	0.45	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	0.11	0.20	0.029	ppbv	J	0.54	0.98	0.14	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.20	0.029	ppbv		ND	0.98	0.14	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	0.26	0.20	0.025	ppbv		1.2	0.93	0.12	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	0.31	0.20	0.044	ppbv		0.94	0.61	0.13	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.040	0.037	ppbv		ND	0.27	0.25	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.049	ppbv		ND	0.59	0.14	ug/m3
108-88-3	92.14	Toluene	0.64	0.20	0.030	ppbv		2.4	0.75	0.11	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.040	0.030	ppbv		ND	0.21	0.16	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.34	0.20	0.029	ppbv		1.9	1.1	0.16	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.031	ppbv		ND	0.51	0.079	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.095	ppbv		ND	0.70	0.33	ug/m3
	106.2	m,p-Xylene	0.51	0.20	0.069	ppbv		2.2	0.87	0.30	ug/m3
95-47-6	106.2	o-Xylene	0.26	0.20	0.034	ppbv		1.1	0.87	0.15	ug/m3
1330-20-7	106.2	Xylenes (total)	0.77	0.20	0.034	ppbv		3.3	0.87	0.15	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	107%		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 #
625062495727

Bottle Order Control #

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Lab Quote #

Lab Job #
JB85113

Client / Reporting Information				Weather Parameters					Requested Analysis								
Company Name: Providence Engr				Temperature (Fahrenheit)					Standard TO-15 Reporting List								
Address: 1201 Main St				Start: Maximum:													
City: BR State: LA Zip: 70802				Stop: Minimum:													
Project Contact: Paul Hellise providenceeng.com				Atmospheric Pressure (inches of Hg)													
Phone #: 825-766-7400 Fax #: -7440				Start: Maximum:													
Sampler(s) Name(s): K Hudson				Stop: Minimum:					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	CAMS 203	A	A485	6L	-	12-17	1300	0.08	75	KH	12-18	1300	11.30	75	KH	✓	
Turnaround Time (Business days)		Approved By:			Data Deliverable Information					Comments / Remarks							
Standard - 15 Days 10 Day 5 Day 3 Day 2 Day 1 Day Other		Date:			All NJDEP TO-15 is mandatory Full T1 Comm A Comm B Reduced T2 Full T1 Other:					Summa							
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:					
1				[Signature]			[Signature]					2 Fease					
Relinquished by:		Date Time:		Received By:			Relinquished By:			Date Time:		Received By:					
3 Fease		12/29/14 0935		[Signature]			[Signature]					4					
Relinquished by:		Date Time:		Received By:			Custody Seal #										
5																	

4A0

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3

JB85113: Chain of Custody

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Summa Canister and Flow Controller Log

Job Number: JB85113
Account: PROVLABR Providence Engineering
Project: Valero-CAMS, Baton Rouge, LA
Received: 12/29/14

32
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
A485	6	29.4	12/10/14	RC	CP7391	W49301.D	JB85113-1	12/29/14	YMH	7			1

Accutest Bottle Order(s):
 VP-12/10/2014-17

Prep Date **Room Temp(F)** **Bar Pres "Hg**
 12/10/14 70 29.92