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*Automated Report*

## Technical Report for

### Providence Engineering

Valero-CAMS, Baton Rouge, LA

0712-001

SGS Job Number: JD81166

Sampling Date: 01/20/24

#### Report to:

Providence Engineering

1201 Main Street

Baton Rouge, LA 70802

brandonkilpatrick@providenceeng.com; kennethpaille@providenceeng.com

ATTN: Brandon Kilpatrick

Total number of pages in report: 34



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 unless noted in the narrative, comments or footnotes.

David Chastain  
General Manager

**Client Service contact: Angela Lattanzio 732-329-0200**

Certifications: NJ(12129),NY(10983),CA,CO,CT,FL,HI,IL,IN,KY,LA (120428),MA,MD,ME,MN,NC,NH,NV,AK (UST-103),AZ (AZ0786),PA(68-00408),RI,SC,TX (T104704234),UT,VA,WA,WV

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Test results relate only to samples analyzed.

# Table of Contents

-1-

<b>Section 1: Sample Summary</b> .....	<b>3</b>
<b>Section 2: Sample Results</b> .....	<b>4</b>
<b>2.1: JD81166-1: CAMS 755</b> .....	5
<b>Section 3: Misc. Forms</b> .....	<b>7</b>
<b>3.1: Chain of Custody</b> .....	8
<b>3.2: Summa Canister and Flow Controller Log</b> .....	10
<b>Section 4: MS Volatiles - QC Data Summaries</b> .....	<b>11</b>
<b>4.1: Method Blank Summary</b> .....	12
<b>4.2: Blank Spike/Blank Spike Duplicate Summary</b> .....	18
<b>4.3: Duplicate Summary</b> .....	24
<b>4.4: Summa Cleaning Certification</b> .....	27
<b>4.5: Instrument Performance Checks (BFB)</b> .....	30
<b>4.6: Surrogate Recovery Summaries</b> .....	34



## Sample Summary

Providence Engineering

Job No: JD81166

Valero-CAMS, Baton Rouge, LA  
Project No: 0712-001

Sample Number	Collected Date	Time By	Matrix Received	Code Type	Client Sample ID
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This report contains results reported as ND = Not detected. The following applies:  
Organics ND = Not detected above the MDL

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JD81166-1	01/20/24	06:30 DS	01/25/24	AIR	Ambient Air Comp.	CAMS 755
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Sample Results

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Report of Analysis

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# Report of Analysis

<b>Client Sample ID:</b>	CAMS 755	<b>Date Sampled:</b>	01/20/24
<b>Lab Sample ID:</b>	JD81166-1	<b>Date Received:</b>	01/25/24
<b>Matrix:</b>	AIR - Ambient Air Comp. Summa ID: A1697	<b>Percent Solids:</b>	n/a
<b>Method:</b>	TO-15		
<b>Project:</b>	Valero-CAMS, Baton Rouge, LA		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	8W04192.D	1	02/02/24 19:21	TS	n/a	n/a	V8W165

Run #1	Initial Volume
Run #2	400 ml

## VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone (2-Propanone)	0.82	0.20	0.15	ppbv		1.9	0.48	0.36	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.084	ppbv		ND	0.44	0.19	ug/m3
71-43-2	78.11	Benzene	ND	0.20	0.024	ppbv		ND	0.64	0.077	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	0.20	ug/m3
75-25-2	252.8	Bromoform	ND	0.20	0.071	ppbv		ND	2.1	0.73	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.069	ppbv		ND	0.78	0.27	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.061	ppbv		ND	0.87	0.27	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.13	ppbv		ND	1.0	0.67	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.20	0.045	ppbv		ND	0.62	0.14	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.074	ppbv		ND	0.92	0.34	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.068	ppbv		ND	0.53	0.18	ug/m3
67-66-3	119.4	Chloroform	ND	0.20	0.037	ppbv		ND	0.98	0.18	ug/m3
74-87-3	50.49	Chloromethane	ND	0.20	0.090	ppbv		ND	0.41	0.19	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.083	ppbv		ND	0.63	0.26	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.072	ppbv		ND	1.0	0.37	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	0.25	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	0.045	ppbv		ND	0.69	0.15	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.057	ppbv		ND	0.81	0.23	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.059	ppbv		ND	0.79	0.23	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	0.20	0.030	ppbv		ND	1.5	0.23	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.070	ppbv		ND	0.81	0.28	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.062	ppbv		ND	0.92	0.29	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	0.11	0.20	0.10	ppbv	J	0.54	0.99	0.49	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.20	0.052	ppbv		ND	1.7	0.44	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	0.030	ppbv		ND	0.79	0.12	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.062	ppbv		ND	0.91	0.28	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.20	0.040	ppbv		ND	1.2	0.24	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.20	0.069	ppbv		ND	1.2	0.41	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.20	0.079	ppbv		ND	1.2	0.47	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.10	ppbv		ND	0.91	0.45	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

<b>Client Sample ID:</b> CAMS 755		
<b>Lab Sample ID:</b> JD81166-1		<b>Date Sampled:</b> 01/20/24
<b>Matrix:</b> AIR - Ambient Air Comp. Summa ID: A1697		<b>Date Received:</b> 01/25/24
<b>Method:</b> TO-15		<b>Percent Solids:</b> n/a
<b>Project:</b> 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	6.1	0.50	0.39	ppbv		11	0.94	0.73	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.20	0.061	ppbv		ND	0.87	0.26	ug/m3
141-78-6	88	Ethyl Acetate	ND	0.20	0.10	ppbv		ND	0.72	0.36	ug/m3
622-96-8	120.19	4-Ethyltoluene	ND	0.20	0.095	ppbv		ND	0.98	0.47	ug/m3
76-13-1	187.4	Freon 113	ND	0.20	0.031	ppbv		ND	1.5	0.24	ug/m3
76-14-2	170.9	Freon 114	ND	0.20	0.050	ppbv		ND	1.4	0.35	ug/m3
142-82-5	100.2	Heptane	ND	0.20	0.045	ppbv		ND	0.82	0.18	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.20	0.062	ppbv		ND	2.1	0.66	ug/m3
110-54-3	86.18	Hexane	ND	0.20	0.052	ppbv		ND	0.70	0.18	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.15	ppbv		ND	0.82	0.61	ug/m3
67-63-0	60.1	Isopropyl Alcohol	ND	0.20	0.14	ppbv		ND	0.49	0.34	ug/m3
75-09-2	84.94	Methylene chloride	ND	0.20	0.056	ppbv		ND	0.69	0.19	ug/m3
78-93-3	72.11	Methyl ethyl ketone	ND	0.20	0.11	ppbv		ND	0.59	0.32	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.073	ppbv		ND	0.82	0.30	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.080	ppbv		ND	0.72	0.29	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.070	ppbv		ND	0.82	0.29	ug/m3
115-07-1	42	Propylene	ND	0.50	0.14	ppbv		ND	0.86	0.24	ug/m3
100-42-5	104.1	Styrene	ND	0.20	0.053	ppbv		ND	0.85	0.23	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.20	0.037	ppbv		ND	1.1	0.20	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	0.20	0.048	ppbv		ND	1.4	0.33	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.20	0.038	ppbv		ND	1.1	0.21	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.20	0.12	ppbv		ND	1.5	0.89	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	ND	0.20	0.087	ppbv		ND	0.98	0.43	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	ND	0.20	0.080	ppbv		ND	0.98	0.39	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.20	0.040	ppbv		ND	0.93	0.19	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.093	ppbv		ND	0.61	0.28	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.040	0.014	ppbv		ND	0.27	0.095	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.090	ppbv		ND	0.59	0.27	ug/m3
108-88-3	92.14	Toluene	ND	0.20	0.057	ppbv		ND	0.75	0.21	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	ND	0.20	0.15	ppbv		ND	1.1	0.84	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.069	ppbv		ND	0.51	0.18	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.11	ppbv		ND	0.70	0.39	ug/m3
	106.2	m,p-Xylene	ND	0.20	0.14	ppbv		ND	0.87	0.61	ug/m3
95-47-6	106.2	o-Xylene	ND	0.20	0.077	ppbv		ND	0.87	0.33	ug/m3
1330-20-7	106.2	Xylenes (total)	ND	0.20	0.077	ppbv		ND	0.87	0.33	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	91%		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

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### Custody Documents and Other Forms

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Includes the following where applicable:

- Chain of Custody
- Summa Canister and Flow Controller Log



# AIR CHAIN OF CUSTODY

SGS North America Inc. - Dayton  
2245 Route 130, Dayton, NJ 08810  
TEL 732-329-0200 FAX 732-329-3499  
www.sgs.com/en/usa

FED-EX Tracking # 7748 9410 7850  
SGS Quote #  
Order Control # JS-122721-158  
SGS Job # JD81166

<b>Client / Reporting Information</b> Company Name: <u>Providence Engineering</u> Address: <u>1201 Main St</u> City: <u>Baton Rouge</u> State: <u>LA</u> Zip: <u>70802</u> Project Contact: <u>Brian Kilpatrick</u> E-mail: <u>Brian.Kilpatrick@providenceen.com</u> Phone #: <u>2257766-7440</u> Fax #: Sampler(s) Name(s): <u>Wade Kilrain</u>		<b>Project Information</b> Project Name: <u>Valero Refining</u> Street: <u>1</u> City: <u>Meroux</u> State: <u>LA</u> Project #: <u>072-001</u> Client Purchase Order #		<b>Weather Parameters</b> Temperature (Fahrenheit) Start: _____ Maximum: _____ Stop: _____ Minimum: _____ Atmospheric Pressure (inches of Hg) Start: _____ Maximum: _____ Stop: _____ Minimum: _____ Other weather comment:		Requested Analysis						
Lab Sample # 1	Field ID / Point of Collection <u>CAMS 755</u>	<b>Air Type</b> Indoor (I) Soil Vap (SV) Ambient (A)	<b>Sampling Equipment Info</b> Canister Serial #: <u>A1697</u> Canister Size: <u>6L</u> Flow Controller Serial #: <u>697</u>			<b>Start Sampling Information</b> Date: <u>2024 1-19</u> Time (24hr clock): <u>0630</u> Canister Pressure ("Hg): <u>30"</u> Interior Temp (F): <u>59</u> Sampler Init.: <u>DT</u>			<b>Stop Sampling Information</b> Date: <u>2024 1-20</u> Time (24hr clock): <u>0630</u> Canister Pressure ("Hg): <u>4</u> Interior Temp (F): <u>56</u> Sampler Init.: <u>DS</u>			Comments / Remarks <u>Initial Assessment</u> <u>Label Verification</u>
		Turnaround Time (Business days) <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	Approved By: _____ Date: _____	<b>Data Deliverable Information</b> 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 <input type="checkbox"/> Other: _____ <input type="checkbox"/> DKQP reporting			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 Laboratory: 1 Date/Time: <u>1/19/24 7:21</u>	Received By: <u>[Signature]</u> Date/Time: <u>1/25/24 950</u>	Relinquished by: <u>Fedex</u> Date/Time: <u>1/22/24 1402</u>	Received By: <u>[Signature]</u> Date/Time: <u>1/22/24 1402</u>	Relinquished by: <u>Fedex</u> Date/Time:	Received By: <u>[Signature]</u> Date/Time:	Custody Seal #						

31  
3

Form:SM088-03D (revised 2-12-18)

http://www.sgs.com/en/terms-and-conditions

## JD81166: Chain of Custody

### Page 1 of 2

