

The results set forth herein are provided by SGS North America Inc.

*e-Hardcopy 2.0*  
*Automated Report*

## Technical Report for

### Providence Engineering

Valero-CAMS, Baton Rouge, LA

712-001

SGS Job Number: JD94344

Sampling Date: 08/11/24

#### 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: 36



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: Jeremy Vienneau 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

This report shall not be reproduced, except in its entirety, without the written approval of SGS.  
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: JD94344-1: CAMS 789</b> .....	<b>5</b>
<b>Section 3: Misc. Forms</b> .....	<b>8</b>
<b>3.1: Chain of Custody</b> .....	<b>9</b>
<b>3.2: Summa Canister and Flow Controller Log</b> .....	<b>11</b>
<b>Section 4: MS Volatiles - QC Data Summaries</b> .....	<b>12</b>
<b>4.1: Method Blank Summary</b> .....	<b>13</b>
<b>4.2: Blank Spike/Blank Spike Duplicate Summary</b> .....	<b>19</b>
<b>4.3: Duplicate Summary</b> .....	<b>25</b>
<b>4.4: Summa Cleaning Certification</b> .....	<b>28</b>
<b>4.5: Instrument Performance Checks (BFB)</b> .....	<b>31</b>
<b>4.6: Surrogate Recovery Summaries</b> .....	<b>36</b>



## Sample Summary

Providence Engineering

Job No: JD94344

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

Sample Number	Collected Date	Time By	Received	Matrix Code Type	Client Sample ID
---------------	----------------	---------	----------	------------------	------------------

This report contains results reported as ND = Not detected. The following applies:  
Organics ND = Not detected above the MDL

---

JD94344-1	08/11/24	08:10 DJ	08/16/24	AIR Ambient Air Comp.	CAMS 789
-----------	----------	----------	----------	-----------------------	----------

Sample Results

---

Report of Analysis

---

### Report of Analysis

<b>Client Sample ID:</b> CAMS 789		
<b>Lab Sample ID:</b> JD94344-1		<b>Date Sampled:</b> 08/11/24
<b>Matrix:</b> AIR - Ambient Air Comp. Summa ID: A1629		<b>Date Received:</b> 08/16/24
<b>Method:</b> TO-15		<b>Percent Solids:</b> n/a
<b>Project:</b> Valero-CAMS, Baton Rouge, LA		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	7W08525.D	1	09/03/24 22:54	BK	n/a	n/a	V7W321

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)	6.9	0.20	0.15	ppbv		16	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	0.15	0.20	0.047	ppbv	J	0.48	0.64	0.15	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 <sup>a</sup>	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	0.66	0.20	0.090	ppbv		1.4	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	0.048	ppbv		ND	0.72	0.17	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.40	0.20	0.10	ppbv		2.0	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	0.13	ppbv		ND	1.2	0.78	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      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

<b>Client Sample ID:</b>	CAMS 789	<b>Date Sampled:</b>	08/11/24
<b>Lab Sample ID:</b>	JD94344-1	<b>Date Received:</b>	08/16/24
<b>Matrix:</b>	AIR - Ambient Air Comp. Summa ID: A1629	<b>Percent Solids:</b>	n/a
<b>Method:</b>	TO-15		
<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	6.7	0.50	0.39	ppbv		13	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	0.091	ppbv		ND	0.82	0.37	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	0.21	0.20	0.052	ppbv		0.74	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	0.40	0.20	0.14	ppbv		0.98	0.49	0.34	ug/m3
75-09-2	84.94	Methylene chloride	0.24	0.20	0.13	ppbv		0.83	0.69	0.45	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.77	0.20	0.11	ppbv		2.3	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	0.11	0.20	0.053	ppbv	J	0.47	0.85	0.23	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.20	0.078	ppbv		ND	1.1	0.43	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	0.13	0.20	0.093	ppbv	J	0.39	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	0.46	0.20	0.057	ppbv		1.7	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	0.25	0.20	0.15	ppbv		1.4	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	0.19	0.20	0.11	ppbv	J	0.67	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	96%		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

## Report of Analysis

<b>Client Sample ID:</b>	CAMS 789	<b>Date Sampled:</b>	08/11/24
<b>Lab Sample ID:</b>	JD94344-1	<b>Date Received:</b>	08/16/24
<b>Matrix:</b>	AIR - Ambient Air Comp. Summa ID: A1629	<b>Percent Solids:</b>	n/a
<b>Method:</b>	TO-15		
<b>Project:</b>	Valero-CAMS, Baton Rouge, LA		

### VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
---------	----	----------	--------	----	-----	-------	---	--------	----	-----	-------

(a) Associated ICV/CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.

---

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

# AIR CHAIN OF CUSTODY

SGS North America Inc. - Dayton  
2235 Route 130, Dayton, NJ 08810  
TEL. 732-329-0200  
www.sgs.com/ehusa

FED-EX Tracking # 2911 3029  
SGS Quote #  
SGS Job # JD94344

Client / Reporting Information		Project Information			Weather Parameters			Requested Analysis	
Company Name: <u>PROVIDENCE</u>		Project Name: <u>VALUO REFERRAL</u>			Temperature (Fahrenheit)			Requested Analysis	
Address: <u>1201 MAIN ST.</u>		Street:			Start: Maximum:				
City: <u>BATON ROUGE LA 70802</u>		City: <u>MEHAUX LA</u>			Stop: Minimum:				
Project Contact: <u>Brandon Kilpatrick @ providenceeng.com</u>		Project #: <u>712-001</u>			Atmospheric Pressure (inches of Hg)				
Phone #: <u>(225) 766-7400</u>		Client Purchase Order #			Start: Maximum:				
Fax #: _____		Other weather comment:			Stop: Minimum:				

Lab Sample #	Sampler(s) Name(s)	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 SL or TL	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	<u>DEEK JENKIN</u>	<u>Cams 787</u>	<u>A</u>	<u>A1629</u>	<u>66</u>	<u>68.7</u>	<u>8/10</u>	<u>0810</u>	<u>30</u>	<u>75</u>	<u>DJ</u>	<u>8/11</u>	<u>0910</u>	<u>5</u>	<u>75</u>	<u>DJ</u>	<u>X</u>

Turnaround Time (Business days)	Approved By: _____	Date: _____	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			All NJDEP TO-15 is Mandatory Full T1 Comm A Comm B Reduced T2 Full T1 Other: _____ DKQP reporting	4B1R Sample inventory is verified upon receipt in the Laboratory

Sample Custody must be documented below each time samples change possession, including courier delivery.				
Relinquished to Laboratory:	Date Time:	Received By:	Relinquished By:	Date Time:
1	<u>7/25/14 9:52</u>	1	<u>DEEK JENKIN</u>	<u>8/11/24 16:23</u>
Relinquished to:	Date Time:	Received By:	Relinquished By:	Date Time:
3		3	<u>FEDEX</u>	<u>8/16/24 9:20</u>
Relinquished by:	Date Time:	Received By:	Custody Seal #	
5		5		

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

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

