

Technical Report for

Providence Engineering

Valero-CAMS, Baton Rouge, LA

712-001

SGS Accutest Job Number: JC20654

Sampling Date: 05/11/16

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)

This report shall not be reproduced, except in its entirety, without the written approval of SGS Accutest.
Test results relate only to samples analyzed.

Table of Contents

-1-

Section 1: Sample Summary	3
Section 2: Sample Results	4
2.1: JC20654-1: CAMS 288	5
Section 3: Misc. Forms	7
3.1: Chain of Custody	8
3.2: Summa Canister and Flow Controller Log	10



Sample Summary

Providence Engineering

Job No: JC20654

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

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
JC20654-1	05/11/16	13:00 KH	05/20/16	AIR	Ambient Air Grab	CAMS 288

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	CAMS 288	Date Sampled:	05/11/16
Lab Sample ID:	JC20654-1	Date Received:	05/20/16
Matrix:	AIR - Ambient Air Grab Summa ID: A634	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	5W18364.D	1	05/23/16	WO	n/a	n/a	V5W732
Run #2							

Run #	Initial Volume
Run #1	100 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	9.4	0.80	0.14	ppbv		22	1.9	0.33	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.11	ppbv		ND	1.8	0.24	ug/m3
71-43-2	78.11	Benzene	ND	0.80	0.13	ppbv		ND	2.6	0.42	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.80	0.15	ppbv		ND	5.4	1.0	ug/m3
75-25-2	252.8	Bromoform	ND	0.80	0.063	ppbv		ND	8.3	0.65	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.074	ppbv		ND	3.1	0.29	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.074	ppbv		ND	3.5	0.32	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.11	ppbv		ND	4.1	0.57	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.80	0.13	ppbv		ND	2.5	0.40	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.22	ppbv		ND	3.7	1.0	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.14	ppbv		ND	2.1	0.37	ug/m3
67-66-3	119.4	Chloroform	ND	0.80	0.066	ppbv		ND	3.9	0.32	ug/m3
74-87-3	50.49	Chloromethane	0.80	0.80	0.21	ppbv		1.7	1.7	0.43	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.11	ppbv		ND	2.5	0.34	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.068	ppbv		ND	4.1	0.35	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.80	0.12	ppbv		ND	5.0	0.75	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.80	0.065	ppbv		ND	2.8	0.22	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.061	ppbv		ND	3.2	0.25	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.80	0.084	ppbv		ND	3.2	0.33	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.80	0.17	ppbv		ND	6.1	1.3	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.070	ppbv		ND	3.2	0.28	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.088	ppbv		ND	3.7	0.41	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.18	ppbv		ND	2.9	0.65	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.55	0.80	0.076	ppbv	J	2.7	4.0	0.38	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.80	0.21	ppbv		ND	6.8	1.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.11	ppbv		ND	3.2	0.44	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.80	0.084	ppbv		ND	3.2	0.33	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.061	ppbv		ND	3.6	0.28	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.80	0.078	ppbv		ND	4.8	0.47	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.80	0.064	ppbv		ND	4.8	0.38	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.80	0.11	ppbv		ND	4.8	0.66	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.073	ppbv		ND	3.6	0.33	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 288	Date Sampled:	05/11/16
Lab Sample ID:	JC20654-1	Date Received:	05/20/16
Matrix:	AIR - Ambient Air Grab Summa ID: A634	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	4.7	2.0	0.30	ppbv		8.9	3.8	0.57	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.80	0.17	ppbv		ND	3.5	0.74	ug/m3
141-78-6	88	Ethyl Acetate	0.44	0.80	0.30	ppbv	J	1.6	2.9	1.1	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.80	0.067	ppbv		ND	3.9	0.33	ug/m3
76-13-1	187.4	Freon 113	ND	0.80	0.086	ppbv		ND	6.1	0.66	ug/m3
76-14-2	170.9	Freon 114	ND	0.80	0.13	ppbv		ND	5.6	0.91	ug/m3
142-82-5	100.2	Heptane	ND	0.80	0.081	ppbv		ND	3.3	0.33	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.80	0.081	ppbv		ND	8.5	0.86	ug/m3
110-54-3	86.17	Hexane	2.0	0.80	0.090	ppbv		7.0	2.8	0.32	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.18	ppbv		ND	3.3	0.74	ug/m3
67-63-0	60.1	Isopropyl Alcohol	1.4	0.80	0.62	ppbv		3.4	2.0	1.5	ug/m3
75-09-2	84.94	Methylene chloride	2.8	0.80	0.10	ppbv		9.7	2.8	0.35	ug/m3
78-93-3	72.11	Methyl ethyl ketone	1.9	0.80	0.19	ppbv		5.6	2.4	0.56	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.22	ppbv		ND	3.3	0.90	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.079	ppbv		ND	2.9	0.28	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.16	ppbv		ND	3.3	0.66	ug/m3
115-07-1	42	Propylene	ND	2.0	0.13	ppbv		ND	3.4	0.22	ug/m3
100-42-5	104.1	Styrene	ND	0.80	0.062	ppbv		ND	3.4	0.26	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.80	0.094	ppbv		ND	4.4	0.51	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.80	0.064	ppbv		ND	5.5	0.44	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.80	0.16	ppbv		ND	4.4	0.87	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.80	0.22	ppbv		ND	5.9	1.6	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	ND	0.80	0.061	ppbv		ND	3.9	0.30	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.80	0.18	ppbv		ND	3.9	0.88	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.80	0.091	ppbv		ND	3.7	0.43	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.80	0.21	ppbv		ND	2.4	0.64	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.16	0.092	ppbv		ND	1.1	0.62	ug/m3
109-99-9	72.11	Tetrahydrofuran	3.8	0.80	0.18	ppbv		11	2.4	0.53	ug/m3
108-88-3	92.14	Toluene	0.61	0.80	0.050	ppbv	J	2.3	3.0	0.19	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.16	0.074	ppbv		ND	0.86	0.40	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	0.80	0.088	ppbv		ND	4.5	0.49	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.80	0.082	ppbv		ND	2.0	0.21	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.22	ppbv		ND	2.8	0.77	ug/m3
	106.2	m,p-Xylene	ND	0.80	0.27	ppbv		ND	3.5	1.2	ug/m3
95-47-6	106.2	o-Xylene	ND	0.80	0.20	ppbv		ND	3.5	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	ND	0.80	0.20	ppbv		ND	3.5	0.87	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

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

SGS Accutest Sample Receipt Summary

Job Number: JC20654

Client: _____

Project: _____

Date / Time Received: 5/20/2016 10:15:00 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. SmpI 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 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

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

JC20654: Chain of Custody

Page 2 of 2

Summa Canister and Flow Controller Log

Job Number: JC20654
Account: PROVLABR Providence Engineering
Project: Valero-CAMS, Baton Rouge, LA
Received: 05/20/16

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
A634	6	29.4	04/29/16	RC	CP8427	W54993A.D	JC20654-1	05/20/16	RD	7.5			1

SGS Accutest Bottle Order(s):
 VP-4/29/2016-6

Prep Date **Room Temp(F)** **Bar Pres "Hg**
 04/29/16 70 29.92