

SGS ACCUTEST IS PART OF SGS, THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY.



*e-Hardcopy 2.0
Automated Report*

Technical Report for

Providence Engineering

Valero-CAMS, Baton Rouge, LA

712-001

SGS Accutest Job Number: JC27260

Sampling Date: 08/27/16



Report to:

Providence Engineering

kevincalhoun@providenceeng.com

ATTN: Kevin Calhoun

Total number of pages in report: 12



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: JC27260-1: CAMS 306	5
Section 3: Misc. Forms	7
3.1: Chain of Custody	8
3.2: Summa Canister and Flow Controller Log	12

1

2

3



Sample Summary

Providence Engineering

Job No: JC27260

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

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
JC27260-1	08/27/16	13:00 KH	09/09/16	AIR	Ambient Air Grab	CAMS 306

Sample Results

Report of Analysis

Report of Analysis

Page 1 of 2

Client Sample ID: CAMS 306	Date Sampled: 08/27/16
Lab Sample ID: JC27260-1	Date Received: 09/09/16
Matrix: AIR - Ambient Air Grab Summa ID: A218	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	3W55981.D	1	09/15/16	WO	n/a	n/a	V3W2119
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	9.0	0.20	0.036	ppbv		21	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	0.11	0.20	0.031	ppbv	J	0.35	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	0.12	0.20	0.031	ppbv	J	0.37	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	0.82	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	ND	0.20	0.016	ppbv		ND	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	0.48	0.20	0.019	ppbv		2.4	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 306	
Lab Sample ID: JC27260-1	Date Sampled: 08/27/16
Matrix: AIR - Ambient Air Grab Summa ID: A218	Date Received: 09/09/16
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	0.64	0.50	0.075	ppbv		1.2	0.94	0.14	ug/m3
100-41-4	106.2	Ethylbenzene	0.11	0.20	0.042	ppbv	J	0.48	0.87	0.18	ug/m3
141-78-6	88	Ethyl Acetate	0.26	0.20	0.075	ppbv		0.94	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	0.10	0.20	0.020	ppbv	J	0.41	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	0.25	0.20	0.023	ppbv		0.88	0.70	0.081	ug/m3
591-78-6	100	2-Hexanone	0.11	0.20	0.045	ppbv	J	0.45	0.82	0.18	ug/m3
67-63-0	60.1	Isopropyl Alcohol	0.26	0.20	0.16	ppbv		0.64	0.49	0.39	ug/m3
75-09-2	84.94	Methylene chloride	0.31	0.20	0.025	ppbv		1.1	0.69	0.087	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.92	0.20	0.048	ppbv		2.7	0.59	0.14	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	0.12	0.20	0.055	ppbv	J	0.49	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	0.19	0.20	0.015	ppbv	J	0.81	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	0.098	0.20	0.015	ppbv	J	0.48	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	0.12	0.20	0.023	ppbv	J	0.56	0.93	0.11	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.053	ppbv		ND	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	0.30	0.20	0.012	ppbv		1.1	0.75	0.045	ug/m3
79-01-6	131.4	Trichloroethylene	0.035	0.040	0.019	ppbv	J	0.19	0.21	0.10	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.23	0.20	0.022	ppbv		1.3	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	0.36	0.20	0.068	ppbv		1.6	0.87	0.30	ug/m3
95-47-6	106.2	o-Xylene	0.18	0.20	0.051	ppbv	J	0.78	0.87	0.22	ug/m3
1330-20-7	106.2	Xylenes (total)	0.54	0.20	0.051	ppbv		2.3	0.87	0.22	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	100%		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

AIR

PN



ACCUTEST

AIR CHAIN OF CUSTODY

SGS Accutest - Dayton
2235 Route 130, Dayton, NJ 08810
TEL: 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

FED-EX Tracking # 678092501039
Lab Quote # VP-8/22/2016-134
Lab Job # JC27260

PAGE 1 OF 1

31
3

Client / Reporting Information				Project Information				Weather Parameters				Requested Analysis							
Company Name				Project Name Valero Refining				Temperature (Fahrenheit)				Requested Analysis							
Address				Street				Start: Maximum:											
City State Zip				City State Mercury LA				Stop: Minimum:											
Project Contact				Project # 712-001				Atmospheric Pressure (Inches of Hg)											
Phone # Fax #				Client Purchase Order #				Start: Maximum:											
Sampler(s) Name(s)				Other weather comment:								10-15							
		Air Type		Sampling Equipment Info		Start Sampling Information				Stop Sampling Information									
Lab Sample #	Field ID / Point of Collection	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 306	A	AZ18	6L	-	8-26	1300	0.01	75	KH	8-27			1300	14.74	75	KEI		
[Empty grid rows for sampling data]																			
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>4A/BY</u> INITIAL ASSESSMENT Date: _____ LABEL VERIFICATION <u>BV</u>				All NUDEP TO-15 is mandatory Full T1 Comm A Comm B Reduced T2 Full T1 Other: _____ DKQP reporting						Sample inventory is verified upon receipt in the Laboratory <u>SUMMA</u>					
Sample Custody must be documented below each time samples change possession, including courier delivery.																			
Relinquished by Lab #1 <u>Ray/Morans</u>		Date/Time: <u>8/22/16 13:20</u>		Received By: <u>FedEx</u>		Relinquished By: <u>FedEx</u>		Date/Time: _____		Received By: _____				Relinquished by Lab #2		Date/Time: _____		Received By: _____	
Relinquished by: 3		Date/Time: _____		Received By: <u>FedEx</u>		Relinquished By: <u>FedEx</u>		Date/Time: <u>9/9/16 0930</u>		Received By: <u>BVassilatos</u>				Relinquished by Lab #4		Date/Time: _____		Received By: _____	
Relinquished by: 5		Date/Time: _____		Received By: _____		Custody Seal #													

JC27260: Chain of Custody

Page 1 of 4

SGS Accutest Sample Receipt Summary

Job Number: JC27260

Client: Providence Eng.

Project: Valero Refining

Date / Time Received: 9/9/2016 9:30:00 AM

Delivery Method: FedEx

Airbill #s: 6870 9736 4039

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. Smpl 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: | <u>N/A</u> | |
| 3. Cooler media: | <u>N/A</u> | |
| 4. No. Coolers: | <u>N/A</u> | |

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: | <u>Intact</u> | |

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 The COC is lacking certain documentation.
 -Company information is not filled out.
 -Client's receipt and relinquishment signatures have not been completed.
 -Deliverables were not made clear.

3.1
3

SGS Accutest Sample - Problem Resolution

Accutest Job Number: JC27260

CSR: VP

Response Date: 9/12/2016

Response: Client provided revised coc with all missing information.

JC27260: Chain of Custody
Page 3 of 4

AIR

REVISED

PN



ACCUTEST

AIR CHAIN OF CUSTODY

SGS Accutest - Dayton
3335 Route 139, Dayton, NJ 08810
TEL: 732-329-0200 FAX: 732-329-3499/3489
www.accutest.com

Lab Case # **JC27260** Lab Job # **JC27260**
VP-8/22/2016-134 PAGE 1 OF 1

Wet 9/17

Client / Reporting Information			Project Information					Weather Parameters					Requested Analysis					
Company Name: Providence Engr			Project Name: Water Refining					Temperature (Fahrenheit)					Requested Analysis					
Address: 1201 Main St			Street					Start: Maximum:										
City: BR State: LA Zip: 70802			City: Meroux State: CA					Stop: Minimum:										
Project Contact: Dan Hollis E-mail: providenceeng.com			Project #: 712-001					Atmospheric Pressure (inches of Hg)										
Phone #: 225-766-7400 Fax #: -7440			Client Purchase Order #					Start: Maximum:										
Sample(s) Name(s): Hudson			Other weather comment:					Stop: Minimum:					51-015					
Lab Sample #	Field ID / Point of Collection	Air Type	Sampling Equipment Info			Start Sampling Information					Stop Sampling Information							
			Inlet/Outlet Soil Vap (SV) Ambient (A)	Canister Serial #	Canister Size (L 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	Cannr 306	A	A218	6L	-	8-26	1300	0.01	75	LH	8-27	1300			14.74	75	VEI	✓
Turnaround Time (Business days)																		
Standard - 15 Days			Approved By: W/BY			Data Deliverable Information					Comments / Remarks							
10 Day			INITIAL ASSESSMENT			All NJDEP TO-15 is mandatory Full T1					COC Seal Fed Ex ship							
5 Day			Date: 8/27			Comm A					Sample inventory is verified upon receipt in the Laboratory SUMMA							
3 Day			LABEL VERIFICATION			Comm B												
2 Day						Reduced T2												
1 Day						Full T1												
Other						Other:												
Sample Custody must be documented below each time samples change possession, including courier delivery.																		
Relinquished by: [Signature]	Date/Time: 8/22/16 13:20	Received By: FedEx	Received By: FedEx	Date/Time: 9/1/16 0930	Received By: [Signature]													
Relinquished by: [Signature]	Date/Time:	Received By: FedEx	Received By: FedEx	Date/Time:	Received By: [Signature]													
Relinquished by: [Signature]	Date/Time:	Received By: FedEx	Received By: FedEx	Date/Time:	Received By: [Signature]													
Relinquished by:	Date/Time:	Received By:	Received By:	Date/Time:	Received By:													
Relinquished by:	Date/Time:	Received By:	Received By:	Date/Time:	Received By:													

Summa Canister and Flow Controller Log

Job Number: JC27260
Account: PROVLABR Providence Engineering
Project: Valero-CAMS, Baton Rouge, LA
Received: 09/09/16

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
A218	6	29.4	07/28/16	RD	CP8602	5W19343.D	JC27260-1	09/12/16	YMH	1			1

SGS Accutest Bottle Order(s):
 VP-7/28/2016-7

Prep Date	Room Temp(F)	Bar Pres "Hg
07/28/16	70	29.92