

Wine Industry Interlaboratory Program

Summary Report #066 - Fall 2020

Introduction to the Wine Program

Explanation of Tables and Definitions of Terms

Analysis	Analysis Name
<u>901</u>	<u>Ethanol (% of volume)</u>
<u>902</u>	<u>Total Sulfur Dioxide</u>
<u>903</u>	<u>Free Sulfur Dioxide</u>
<u>904</u>	<u>Titrateable Acidity</u>
<u>905</u>	<u>Volatile Acidity</u>
<u>906</u>	<u>Specific Gravity</u>
<u>907</u>	<u>pH</u>
<u>908</u>	<u>Residual Sugar</u>
<u>909</u>	<u>L-Malic Acid</u>
<u>910</u>	<u>Glucose + Fructose</u>
<u>911</u>	<u>Copper Content</u>
<u>912</u>	<u>Potassium Content</u>
<u>915</u>	<u>A420nm (1cm path)</u>
<u>916</u>	<u>A520nm (1cm path)</u>
<u>950</u>	<u>Research Property: Citric Acid</u>
<u>951</u>	<u>Research: Iron Content</u>
<u>952</u>	<u>Research: Methanol Content</u>

About the Wine Industry Interlaboratory Program

This interlaboratory survey was administered by Collaborative Testing Services, Inc. (CTS) through an agreement with The American Society for Enology and Viticulture (ASEV) with technical assistance provided by the Laboratory Proficiency Ad Hoc Committee. The purpose of the survey was to evaluate laboratory performance and assess the performance of the industry with respect to quality assurance testing conducted on commercially produced wine through an on-going interlaboratory testing program. Two bottles of differing wines were supplied to participant laboratories. The samples for each type of wine were chosen consecutively from a single production run, to minimize variation between bottles. Participating laboratories were asked to analyze the samples' ten properties in accordance with their normal laboratory procedures and return the results and methodology information to CTS.

About CTS

Founded in 1971, Collaborative Testing Services, Inc. (CTS) is a privately - owned company that specializes in interlaboratory tests for a variety of sectors: including rubber, plastics, fasteners and metals, containerboard, paper, wine and color, as well as proficiency tests for forensic laboratories. All of the tests are designed to assist organizations in achieving and maintaining quality assurance objectives. Labs from the U.S., as well as more than 80 countries, currently participate in the CTS programs.

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Key for Web Summary Report (Page 1 of 2)

WebCode	Assigned laboratory identification number (temporary) used to ensure lab confidentiality while permitting a lab to locate its data in the Wine Web Summary Report published on the CTS web site. The WebCode for each analysis can be found in the Performance Analysis Report mailed to each participant.
Lab Mean	The average of the test results obtained by the participant.
Grand Mean	The average of the LAB MEANS for all included participants. Laboratories flagged with an X or an M (see DATA FLAG column) are excluded from the GRAND MEAN.
Difference from Grand Mean	The difference of the LAB MEAN from the GRAND MEAN.
Between-Lab Standard Deviation	An indication of the precision of measurement between the laboratories. The greater the spread of the LAB MEANS about the GRAND MEAN, the larger the BETWEEN-LAB STANDARD DEVIATION (and vice versa).
Comparative Performance Value	An indication of how well a laboratory's results agree with the other participants. The CPV is a ratio indicating the number of standard deviations from the GRAND MEAN. The closer a laboratory's COMPARATIVE PERFORMANCE VALUE is to zero, the more consistent its results are with the other participants' data (and vice versa). The critical value for each CPV will vary depending on the number of labs participating in a test.
Data Flag	DATA FLAGS are assigned based on the simultaneous analysis of both samples tested. Refer to the following chart for an explanation of each symbol:

<u>DATA FLAG</u>	<u>STATISTICALLY INCLUDED/EXCLUDED</u>	<u>ACTION REQUIRED</u>
*	INCLUDED	CAUTION - Review testing procedure and monitor future results. Results fall outside 95% ellipse but within a 99% ellipse that is calculated but not drawn.
X	EXCLUDED	STOP - Immediate review of data and/or testing procedure is required. Results fall outside the 99% ellipse. See specific notes following each table for more information on why the data is excluded.
M	EXCLUDED	PROCEED - Lab was unable to report data for one sample.

Graph - For each laboratory, the LAB MEAN for the first sample (x-axis) is plotted against the LAB MEAN for the second sample (y-axis) with each point representing a laboratory. The horizontal and vertical cross-hairs are the GRAND MEANS for each sample. When 20 or more laboratories are in the statistics, an ellipse is also drawn so that 95% of the time a randomly selected laboratory will be included inside the ellipse. Plotted data flags are explained above.

Common Problems Highlighted in Footnotes

1. **Extreme data** - The laboratory's results for one or both samples are so inconsistent with those of the other participants that the lab mean(s) fall outside the plot. The participant is advised to immediately review his data and/or testing procedure.
2. **Systematic bias** - The laboratory's results are either consistently high or low for both samples when compared to the other participants (the plotted point falls near the top or bottom of the ellipse). This indicates that the participant is performing the test with a constant bias. Causes of systematic errors include improper calibration, the particular make/model of equipment or a modification to the testing procedure.
3. **Inconsistency in testing between samples/sample sets** - The laboratory's results indicate that there are differences in the way the two samples tested (the plotted point falls to the side of the ellipse). This type of error may be attributed to the analyst deviating from the procedure when testing one of the samples or a material interaction occurrence with the instrument or room conditions. The inconsistency is reflected in the CPVs for the two samples, such as a +1.5 CPV for sample A and a -2.2 CPV for sample B. CTS also will specify if the laboratory's data for one sample are high/low compared to the other participants. If this inconsistency is slight, the lab's plotted point will be an * that falls on the edge of the ellipse.
4. **Inconsistency in testing within a sample** - The laboratory's within-lab standard deviation for a specified sample is high when compared to the other participants, often causing the lab's plotted point to fall outside of the ellipse.

Labs flagged with an * are not typically included in the footnotes of a data table. These labs may locate their position in the control ellipse and use the definitions above to help identify the type of testing error. An * should serve as a caution flag, a "yellow light", to a lab. If this error is repeated in future rounds, a lab may need to stop and review its testing procedures. The initial data flag is not cause for alarm. Interlaboratory tests conducted at regular intervals permit a lab to recognize trends in testing.



ASEV-CTS Wine Industry Interlaboratory Testing Program

Report #066

Fall 2020

Analysis 901 Ethanol (% of volume)

WebCode	Data Flag	Sample SA31			Sample SA32		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
23H4BK		10.45	0.03	0.67	10.46	0.04	1.06
2GEHBD		10.42	0.00	0.07	10.40	-0.02	-0.49
2NELGC	*	10.31	-0.11	-2.69	10.33	-0.09	-2.04
2YHRFK		10.50	0.08	1.87	10.52	0.10	2.49
2ZURCE		10.49	0.07	1.75	10.49	0.07	1.77
39HRKB		10.33	-0.09	-2.09	10.33	-0.09	-2.04
3ATT7A	X	10.19	-0.23	-5.45	10.19	-0.23	-5.38
3E7PUK		10.42	0.00	-0.05	10.42	0.00	0.10
43RPZC		10.38	-0.04	-1.01	10.37	-0.05	-1.21
46XANC		10.39	-0.03	-0.65	10.39	-0.03	-0.61
4GC8TF	X	10.38	-0.04	-0.89	10.27	-0.15	-3.59
6MUWRF		10.36	-0.06	-1.37	10.35	-0.07	-1.57
6TKARJ		10.42	0.00	-0.05	10.42	0.00	0.10
7TUX7F	X	10.20	-0.22	-5.21	10.30	-0.12	-2.76
88QD79		10.47	0.05	1.27	10.47	0.05	1.30
8H9UXF		10.47	0.05	1.15	10.46	0.04	1.06
93DW86	X	10.50	0.08	1.87	10.44	0.02	0.58
98AH3D		10.45	0.03	0.67	10.44	0.02	0.58
9ADBWC		10.38	-0.04	-1.01	10.34	-0.08	-1.80
9CJVKC		10.41	-0.01	-0.17	10.42	0.00	0.10
9W8H3E		10.37	-0.05	-1.25	10.37	-0.05	-1.21
A3NDJ9		10.42	0.00	-0.05	10.41	-0.01	-0.13
A9B6Q3		10.41	-0.01	-0.17	10.42	0.00	0.10
AHL8C3		10.43	0.01	0.31	10.41	-0.01	-0.13
AZ4BR4		10.46	0.04	0.91	10.45	0.03	0.82
BMAE7V	X	10.49	0.07	1.63	10.40	-0.02	-0.37
BMRHL9		10.41	-0.01	-0.17	10.41	-0.01	-0.13
C4VCT9		10.39	-0.03	-0.65	10.38	-0.04	-0.85
C8TVV8		10.46	0.04	0.91	10.44	0.02	0.58
CN3K98		10.44	0.02	0.43	10.44	0.02	0.46
CPWBC2		10.35	-0.07	-1.73	10.37	-0.05	-1.09
D3UYK7		10.38	-0.04	-0.89	10.38	-0.04	-0.85
DJQW8B		10.43	0.01	0.31	10.43	0.01	0.22
DLA9L8	X	9.95	-0.47	-11.22	10.10	-0.32	-7.53
DYTVRY		10.41	-0.01	-0.17	10.40	-0.02	-0.37



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Ethanol (% of volume)

WebCode	Data Flag	Sample SA31			Sample SA32		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
E4QJ4Y	X	10.65	0.23	5.60	10.60	0.18	4.40
EATTAR		10.40	-0.02	-0.41	10.40	-0.02	-0.37
FZPTJ6		10.38	-0.04	-1.01	10.38	-0.04	-0.85
GM9KV4		10.43	0.01	0.31	10.43	0.01	0.22
H4XVH7		10.41	-0.01	-0.29	10.40	-0.02	-0.37
HFPGN2		10.40	-0.02	-0.41	10.40	-0.02	-0.37
HKK9WY		10.41	-0.01	-0.17	10.39	-0.03	-0.73
HPDDP3		10.51	0.09	2.23	10.51	0.09	2.13
HQAX9V		10.38	-0.04	-0.89	10.39	-0.03	-0.61
HQRY4	X	10.37	-0.05	-1.13	10.32	-0.10	-2.28
HTUXAW		10.40	-0.02	-0.41	10.40	-0.02	-0.37
HUMTW7		10.42	0.00	0.07	10.42	0.00	0.10
J8QGKT		10.47	0.05	1.15	10.47	0.05	1.30
JED2UZ		10.42	0.00	0.07	10.42	0.00	0.10
JV3CG3		10.41	-0.01	-0.17	10.42	0.00	0.10
KHL4T2		10.40	-0.02	-0.53	10.42	0.00	0.10
KKCBAR		10.44	0.02	0.43	10.46	0.04	1.06
KLPPYL		10.40	-0.02	-0.41	10.38	-0.04	-0.85
L9VNZQ		10.41	-0.01	-0.17	10.41	-0.01	-0.13
LAB38Z		10.35	-0.07	-1.61	10.38	-0.04	-0.97
LKRY6R	X	10.15	-0.27	-6.41	10.10	-0.32	-7.53
LNQAZR		10.34	-0.08	-1.85	10.33	-0.09	-2.04
LZ4AWK		10.43	0.01	0.19	10.42	0.00	-0.02
M27UXQ	X	10.45	0.03	0.79	10.60	0.18	4.40
M9APZY		10.39	-0.03	-0.65	10.39	-0.03	-0.73
MBGWJQ	X	10.38	-0.04	-1.01	10.44	0.02	0.58
MUAVPP	X	9.64	-0.78	-18.79	9.61	-0.81	-19.22
MWFFCP		10.44	0.02	0.55	10.44	0.02	0.46
N4X4QR		10.41	-0.01	-0.17	10.41	-0.01	-0.13
N8UR8Y		10.38	-0.04	-0.89	10.41	-0.01	-0.13
NCAZVX		10.39	-0.03	-0.77	10.38	-0.04	-0.85
NPUFYX		10.43	0.01	0.31	10.43	0.01	0.34
NQA29Y		10.41	-0.01	-0.17	10.39	-0.03	-0.61
P2JXNM	*	10.56	0.14	3.32	10.53	0.11	2.73
PGEH8W		10.39	-0.03	-0.77	10.39	-0.03	-0.73



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WebCode	Data Flag	Sample SA31			Sample SA32		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
PVJEQX		10.41	-0.01	-0.17	10.42	0.00	0.10
PWQWNU		10.49	0.07	1.75	10.49	0.07	1.66
PZUR9W		10.39	-0.03	-0.65	10.39	-0.03	-0.61
QE6THR		10.37	-0.05	-1.13	10.37	-0.05	-1.09
QNQWKL		10.42	0.00	0.07	10.42	0.00	0.10
RRA94N	X	10.24	-0.18	-4.25	10.38	-0.04	-0.97
T9RQAU		10.50	0.08	1.99	10.50	0.08	2.01
TEDT9J	X	10.60	0.18	4.40	10.60	0.18	4.40
THHCER		10.41	-0.01	-0.17	10.40	-0.02	-0.37
UFQD2T		10.41	-0.01	-0.17	10.41	-0.01	-0.13
UXQNKQ		10.41	-0.01	-0.29	10.41	-0.01	-0.13
V3Z23P		10.42	0.00	-0.05	10.44	0.02	0.46
VPQNKN		10.44	0.02	0.55	10.41	-0.01	-0.13
VV3CKK		10.45	0.03	0.67	10.45	0.03	0.82
W866NG		10.40	-0.02	-0.41	10.40	-0.02	-0.37
WATTMN		10.45	0.03	0.67	10.45	0.03	0.70
WFFLYM		10.40	-0.02	-0.41	10.39	-0.03	-0.73
WHL4XJ		10.43	0.01	0.31	10.44	0.02	0.58
WMW4BA	X	10.30	-0.12	-2.81	10.40	-0.02	-0.37
X3AR6P		10.39	-0.03	-0.65	10.36	-0.06	-1.45
XAB2CH		10.45	0.03	0.79	10.48	0.06	1.54
XUFMCN		10.45	0.03	0.67	10.43	0.01	0.34
Y9AN4F		10.42	0.00	-0.05	10.41	-0.01	-0.13
YA3JQN		10.41	-0.01	-0.17	10.40	-0.02	-0.37
YEXBYL		10.37	-0.05	-1.13	10.38	-0.04	-0.85
YMAE2D		10.38	-0.04	-1.01	10.38	-0.04	-0.85
ZCAYZF		10.41	-0.01	-0.29	10.40	-0.02	-0.37
ZFMYUL		10.50	0.08	1.99	10.50	0.08	2.01



Analysis 901
Ethanol (% of volume)

Grand Means		Summary Statistics	
	10.417 percent		10.416 percent
Stnd Dev Btwn Labs			0.042 percent
	0.042 percent		
Statistics based on 83 of 98 reporting participants			

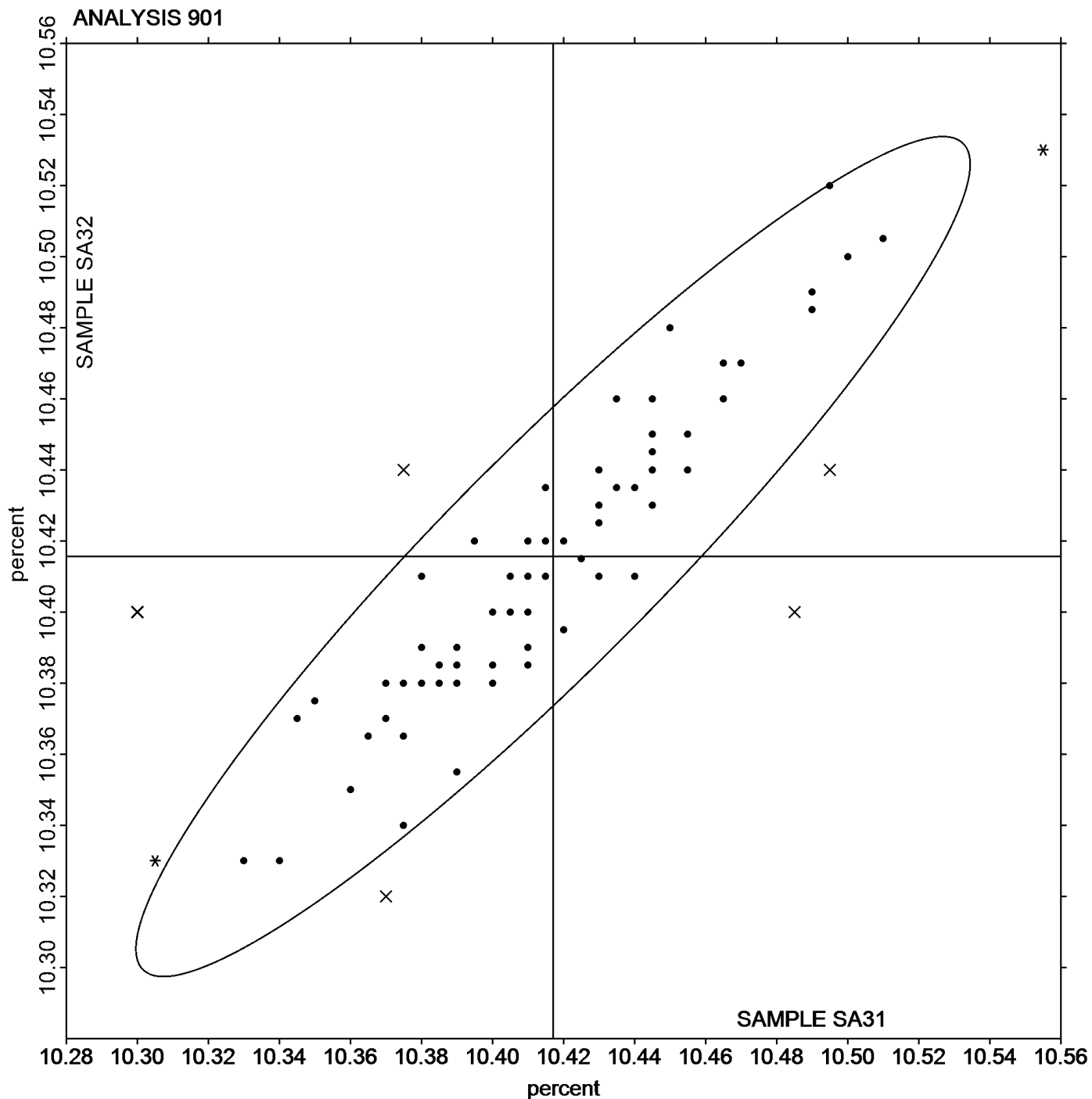
Wines tested: SA31: White Blend; SA32: White Blend

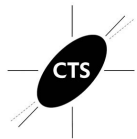
Comments on Assigned Data Flags for Test #901

- MUAVPP (X) - Data for both samples are low.
- 93DW86 (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample SA31.
- DLA9L8 (X) - Data for both samples are low. Inconsistent within the determinations of both samples.
- 4GC8TF (X) - Data for sample SA32 are low. Inconsistent within the determinations of sample SA32.
- 7TUX7F (X) - Data for both samples are low. Possible Systematic Error.
- HQRY4 (X) - Inconsistent in testing between samples.
- RRA94N (X) - Data for sample SA31 are low. Inconsistent within the determinations of both samples.
- 3ATT7A (X) - Data for both samples are low. Possible Systematic Error.
- TEDT9J (X) - Data for both samples are high. Inconsistent within the determinations of both samples.
- MBGWJQ (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample SA31.
- M27UXQ (X) - Data for sample SA32 are high. Inconsistent within the determinations of sample SA31.
- E4QJ4Y (X) - Data for both samples are high. Inconsistent within the determinations of both samples.
- LKRY6R (X) - Data for both samples are low. Inconsistent within the determinations of both samples.
- WMW4BA (X) - Data for sample SA31 are low.
- BMAE7V (X) - Inconsistent in testing between samples. Inconsistent within the determinations of both samples.

Results by Methodology (as reported by laboratory)

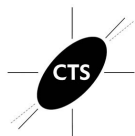
Test Methodology	Sample SA31 <i>White Blend</i>			Sample SA32 <i>White Blend</i>			Labs Incl / Rpt
	Group Mean	Btwn Lab STD	Diff from GM	Group Mean	Btwn Lab STD	Diff from GM	
Ebulliometer Method	10.500	0.000	0.08	10.500	0.000	0.08	1/7
Gas Chromatography Method	10.525	0.042	0.11	10.525	0.007	0.11	2/5
Near Infrared Method	10.411	0.035	-0.01	10.410	0.035	-0.01	65/67
Dist. / Density Method	10.403	0.055	-0.01	10.406	0.052	-0.01	10/11
Dichromate Method							0/1
FTIR	10.418	0.010	0.00	10.420	0.010	0.00	3/5
Other _____	10.430	0.028	0.01	10.433	0.067	0.02	2/2





Total Sulfur Dioxide

WebCode	Data Flag	Sample SA31			Sample SA32		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
23H4BK		104.0	-0.5	-0.08	100.5	-4.0	-0.62
2GEHBD	*	107.5	3.0	0.44	101.5	-3.0	-0.47
2NELGC		98.0	-6.5	-0.98	100.0	-4.5	-0.70
2YHRFK		107.5	3.0	0.44	105.0	0.5	0.08
2ZURCE		108.0	3.5	0.52	108.0	3.5	0.56
39HRKB		112.0	7.5	1.12	111.0	6.5	1.03
3ATT7A		108.5	4.0	0.59	109.0	4.5	0.71
3E7PUK		116.5	12.0	1.79	115.5	11.0	1.74
43RPZC		110.5	6.0	0.89	109.5	5.0	0.79
46XANC		100.5	-4.0	-0.60	102.0	-2.5	-0.39
4GC8TF		102.5	-2.0	-0.30	106.0	1.5	0.24
6TKARJ		100.0	-4.5	-0.68	103.0	-1.5	-0.23
74AU37		100.5	-4.0	-0.60	102.0	-2.5	-0.39
7TUX7F	X	82.0	-22.5	-3.37	79.0	-25.5	-4.01
88QD79		99.0	-5.5	-0.83	101.0	-3.5	-0.55
8H9UXF		103.5	-1.0	-0.15	99.5	-5.0	-0.78
93DW86		109.4	4.9	0.73	109.5	5.1	0.80
98AH3D		101.0	-3.5	-0.53	99.5	-5.0	-0.78
9ADBWC	X	130.7	26.1	3.91	129.9	25.4	4.01
9CJVKC		106.5	2.0	0.29	109.0	4.5	0.71
9W8H3E		99.0	-5.5	-0.83	99.0	-5.5	-0.86
A3NDJ9		103.5	-1.0	-0.15	101.5	-3.0	-0.47
A9B6Q3		112.5	8.0	1.19	114.5	10.0	1.58
AHL8C3		109.0	4.5	0.67	107.5	3.0	0.48
AZ4BR4		109.5	5.0	0.74	109.5	5.0	0.79
BMAE7V	X	87.8	-16.7	-2.50	81.7	-22.8	-3.59
BMRHL9		105.0	0.5	0.07	105.0	0.5	0.08
C4VCT9		106.5	2.0	0.29	108.0	3.5	0.56
C8TVV8		119.0	14.5	2.16	117.0	12.5	1.97
CN3K98		104.0	-0.5	-0.08	102.0	-2.5	-0.39
CPWBC2		94.5	-10.0	-1.50	99.5	-5.0	-0.78
D3UYK7		100.5	-4.0	-0.60	101.5	-3.0	-0.47
DJQW8B		111.5	7.0	1.04	111.5	7.0	1.11
DYTVRY		109.5	5.0	0.74	108.0	3.5	0.56
E4QJ4Y		109.5	5.0	0.74	105.5	1.0	0.16

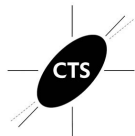


ASEV-CTS Wine Industry Interlaboratory Testing Program

Report #066
Fall 2020

Analysis 902 Total Sulfur Dioxide

WebCode	Data Flag	Sample SA31			Sample SA32		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
EATTAR		102.5	-2.0	-0.30	102.0	-2.5	-0.39
FZPTJ6		106.7	2.2	0.32	110.4	5.9	0.93
GM9KV4		99.0	-5.5	-0.83	101.0	-3.5	-0.55
HFPGN2		104.9	0.3	0.05	103.8	-0.7	-0.11
HKK9WY		98.0	-6.5	-0.98	97.0	-7.5	-1.18
HPDDP3		108.0	3.5	0.52	109.0	4.5	0.71
HQAX9V		103.5	-1.0	-0.15	102.0	-2.5	-0.39
HTUXAW		114.0	9.5	1.42	114.5	10.0	1.58
HUMTW7		107.8	3.3	0.49	110.5	6.0	0.94
J8QGKT	X	97.0	-7.5	-1.13	90.5	-14.0	-2.20
JED2UZ		100.0	-4.5	-0.68	102.0	-2.5	-0.39
JV3CG3		97.0	-7.5	-1.13	97.0	-7.5	-1.18
KHL4T2		108.5	4.0	0.59	108.0	3.5	0.56
KKCBAR		90.5	-14.0	-2.10	94.5	-10.0	-1.57
KLPPYL		110.0	5.5	0.82	110.5	6.0	0.95
L9VNZQ		105.0	0.5	0.07	105.0	0.5	0.08
LKRY6R		96.0	-8.5	-1.28	94.4	-10.1	-1.59
LNQAZR	X	129.0	24.5	3.66	127.5	23.0	3.63
LZ4AWK		105.5	1.0	0.14	105.0	0.5	0.08
M9APZY		98.0	-6.5	-0.98	97.5	-7.0	-1.10
MBGWJQ		106.8	2.3	0.34	108.9	4.4	0.69
MUAVPP		100.5	-4.0	-0.60	101.0	-3.5	-0.55
MWFFCP		108.5	4.0	0.59	109.0	4.5	0.71
N4X4QR		97.0	-7.5	-1.13	99.0	-5.5	-0.86
N8UR8Y		109.0	4.5	0.67	108.5	4.0	0.64
NCAZVX		104.0	-0.5	-0.08	103.0	-1.5	-0.23
NPUFYX		107.5	3.0	0.44	106.0	1.5	0.24
NQA29Y		104.5	0.0	0.00	108.5	4.0	0.64
P2JXNM		106.1	1.6	0.24	106.4	1.9	0.30
PGEH8W		95.5	-9.0	-1.35	96.0	-8.5	-1.33
PVJEQX		116.0	11.4	1.71	115.6	11.1	1.75
PWQWNU		101.5	-3.0	-0.45	99.5	-5.0	-0.78
PZUR9W		96.5	-8.0	-1.20	98.0	-6.5	-1.02
QE6THR		107.0	2.5	0.37	106.0	1.5	0.24
QNQWKL		103.5	-1.0	-0.15	105.5	1.0	0.16



Analysis 902
Total Sulfur Dioxide

WebCode	Data Flag	Sample SA31			Sample SA32		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
RRA94N	*	103.0	-1.5	-0.23	96.5	-8.0	-1.26
T9RQAU		102.5	-2.0	-0.30	103.0	-1.5	-0.23
TEDT9J		105.0	0.5	0.07	103.5	-1.0	-0.15
THHCER	*	121.5	17.0	2.54	122.0	17.5	2.76
TXT3AK	*	84.5	-20.0	-3.00	85.0	-19.5	-3.07
UFQD2T		102.0	-2.5	-0.38	99.0	-5.5	-0.86
UXQNKQ	*	86.5	-18.0	-2.70	90.5	-14.0	-2.20
V3Z23P		103.5	-1.0	-0.15	102.5	-2.0	-0.31
VPAC3J		112.5	8.0	1.19	112.0	7.5	1.19
VPQNKN	X	124.5	20.0	2.99	117.0	12.5	1.97
VV3CKK		107.8	3.3	0.49	109.0	4.5	0.71
W866NG		109.0	4.5	0.67	105.0	0.5	0.08
WATTMN		112.0	7.5	1.12	109.5	5.0	0.79
WFFLYM		117.1	12.5	1.87	116.0	11.5	1.82
WHL4XJ		104.5	0.0	0.00	105.5	1.0	0.16
WMW4BA	*	109.0	4.5	0.67	102.0	-2.5	-0.39
X3AR6P		104.5	0.0	0.00	106.0	1.5	0.24
XAB2CH		88.8	-15.7	-2.35	89.8	-14.7	-2.31
Y9AN4F		102.5	-2.0	-0.30	101.5	-3.0	-0.47
YA3JQN		107.5	3.0	0.44	109.0	4.5	0.71
YEXBYL		93.0	-11.5	-1.73	95.5	-9.0	-1.41
YMAE2D		101.5	-3.0	-0.45	100.0	-4.5	-0.70
ZCAYZF		111.6	7.0	1.05	112.5	8.0	1.27
ZFMYUL		101.4	-3.1	-0.47	101.4	-3.1	-0.48

Grand Means		Summary Statistics	
	104.53 mg/L		104.47 mg/L
Std Dev Btwn Labs			6.35 mg/L
	6.68 mg/L		
Statistics based on 88 of 94 reporting participants			

Wines tested: SA31: White Blend; SA32: White Blend



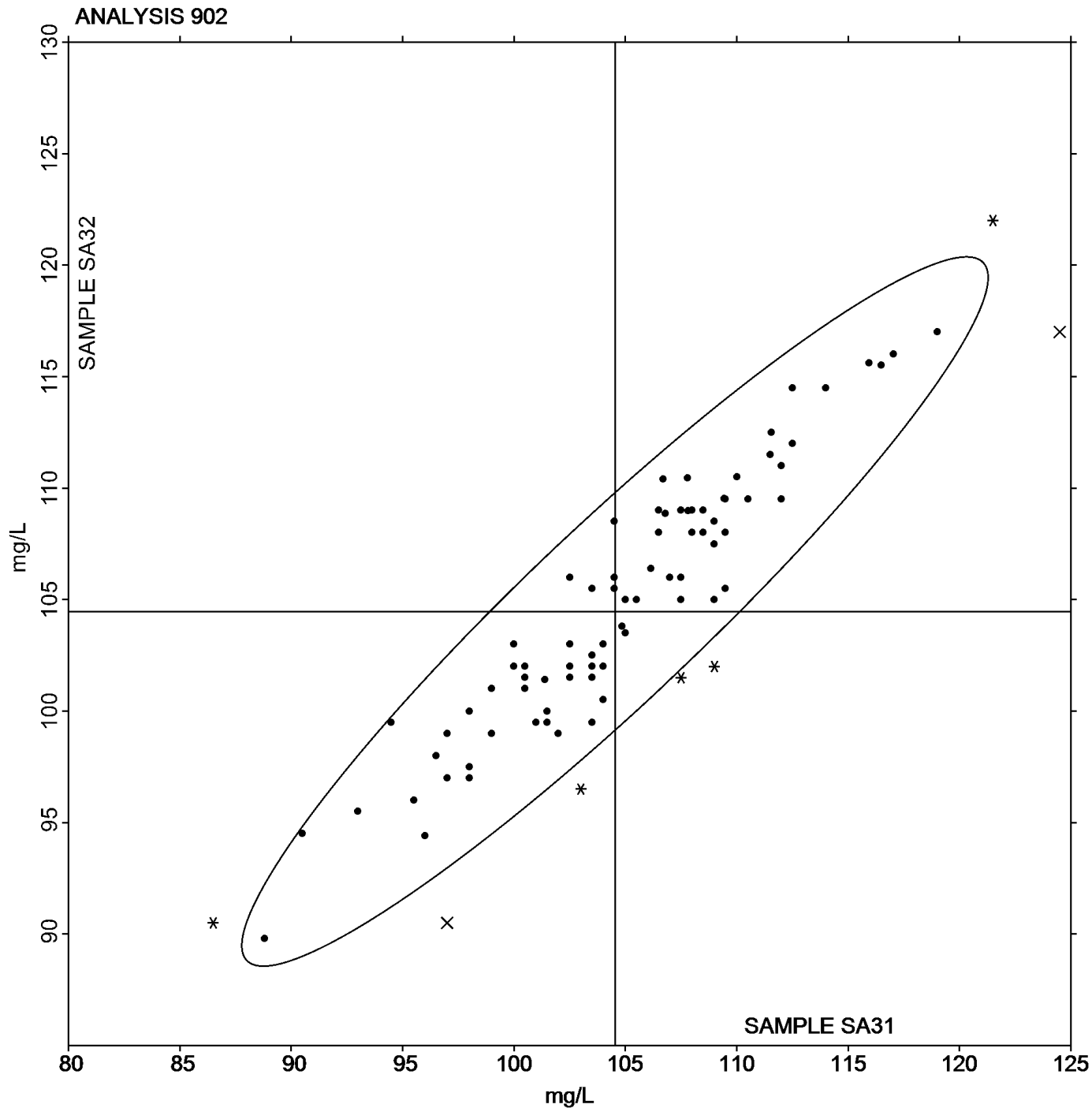
Analysis 902
Total Sulfur Dioxide

Comments on Assigned Data Flags for Test #902

- J8QGKT (X) - Inconsistent in testing between samples.
- 9ADBWC (X) - Data for both samples are high. Possible Systematic Error.
- VPQNKN (X) - Data for sample SA31 are high.
- 7TUX7F (X) - Data for both samples are low. Possible Systematic Error.
- LNQAZR (X) - Data for both samples are high. Possible Systematic Error.
- BMAE7V (X) - Data for sample SA32 are low.

Results by Methodology (as reported by laboratory)

Test Methodology	Sample SA31 <i>White Blend</i>			Sample SA32 <i>White Blend</i>			Labs Incl / Rpt
	Group Mean	Btwn Lab STD	Diff from GM	Group Mean	Btwn Lab STD	Diff from GM	
Please specify method used	101.500	0.000	-3.0	99.500	0.000	-5.0	1/1
Ripper Method	101.532	5.030	-3.0	101.503	4.443	-3.0	38/42
Aeration Oxidation (AO) Method	103.333	8.368	-1.2	103.117	7.558	-1.3	14/14
Segmented Flow Analyzer	104.117	5.757	-0.4	105.233	5.610	0.8	6/6
Enzymatic Method	108.631	4.330	4.1	107.438	5.137	3.0	8/9
Colormetric Analyzer	110.075	6.614	5.5	110.255	6.618	5.8	10/11
FTIR	112.000	8.436	7.5	112.250	6.910	7.8	4/4
Flow Injection Analysis	107.137	2.957	2.6	107.201	3.285	2.7	7/7





Analysis 903
Free Sulfur Dioxide

WebCode	Data Flag	Sample SA31			Sample SA32		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
23H4BK		31.00	2.99	1.10	30.50	2.72	1.00
2GEHBD		32.00	3.99	1.47	31.50	3.72	1.37
2NELGC		26.50	-1.51	-0.56	27.00	-0.78	-0.29
2YHRFK		27.00	-1.01	-0.37	26.00	-1.78	-0.65
2ZURCE		31.00	2.99	1.10	31.00	3.22	1.19
39HRKB		26.00	-2.01	-0.74	25.00	-2.78	-1.02
3ATT7A		28.00	-0.01	0.00	28.00	0.22	0.08
3E7PUK		30.85	2.84	1.05	30.25	2.47	0.91
43RPZC		29.50	1.49	0.55	27.50	-0.28	-0.10
46XANC		27.00	-1.01	-0.37	28.00	0.22	0.08
4GC8TF		30.00	1.99	0.73	32.00	4.22	1.56
6MUWRF		29.50	1.49	0.55	29.10	1.32	0.49
6TKARJ		27.50	-0.51	-0.19	28.00	0.22	0.08
74AU37		27.50	-0.51	-0.19	25.50	-2.28	-0.84
7TUX7F		29.00	0.99	0.37	30.00	2.22	0.82
88QD79	X	27.00	-1.01	-0.37	31.00	3.22	1.19
8H9UXF		25.00	-3.01	-1.11	25.50	-2.28	-0.84
93DW86		28.81	0.80	0.30	27.33	-0.45	-0.16
98AH3D		25.00	-3.01	-1.11	24.00	-3.78	-1.39
9ADBWC		28.50	0.49	0.18	28.50	0.72	0.27
9CJVKC		29.00	0.99	0.37	29.00	1.22	0.45
9W8H3E		31.00	2.99	1.10	30.00	2.22	0.82
A3NDJ9		27.25	-0.76	-0.28	26.50	-1.28	-0.47
A9B6Q3		30.00	1.99	0.73	30.00	2.22	0.82
AHL8C3		30.00	1.99	0.73	30.00	2.22	0.82
AZ4BR4		23.50	-4.51	-1.66	23.00	-4.78	-1.76
BMAE7V		24.50	-3.51	-1.29	24.50	-3.28	-1.21
BMRHL9	*	21.00	-7.01	-2.58	21.00	-6.78	-2.49
C4VCT9		26.00	-2.01	-0.74	28.50	0.72	0.27
C8TVV8		32.50	4.49	1.66	31.50	3.72	1.37
CN3K98		29.00	0.99	0.37	30.00	2.22	0.82
CPWBC2		27.00	-1.01	-0.37	27.50	-0.28	-0.10
D3UYK7		29.50	1.49	0.55	28.00	0.22	0.08
DJQW8B		32.50	4.49	1.66	32.50	4.72	1.74
DLA9L8		33.00	4.99	1.84	34.00	6.22	2.29



Analysis 903
Free Sulfur Dioxide

WebCode	Data Flag	Sample SA31			Sample SA32		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
DYTVRY		32.00	3.99	1.47	31.50	3.72	1.37
E4QJ4Y		29.10	1.09	0.40	27.70	-0.08	-0.03
EATTAR		26.00	-2.01	-0.74	24.50	-3.28	-1.21
FZPTJ6		24.45	-3.56	-1.31	26.15	-1.63	-0.60
GM9KV4		30.00	1.99	0.73	30.00	2.22	0.82
H4XVH7		23.50	-4.51	-1.66	23.50	-4.28	-1.57
HFPGN2		32.10	4.09	1.51	29.96	2.18	0.80
HKK9WY		28.50	0.49	0.18	29.00	1.22	0.45
HPDDP3		30.00	1.99	0.73	31.00	3.22	1.19
HQAX9V		31.00	2.99	1.10	29.50	1.72	0.63
HQRY4		27.00	-1.01	-0.37	27.00	-0.78	-0.29
HTUXAW		25.50	-2.51	-0.92	24.50	-3.28	-1.21
HUMTW7	*	28.05	0.04	0.02	24.70	-3.08	-1.13
J8QGKT		32.00	3.99	1.47	31.50	3.72	1.37
JED2UZ	*	22.00	-6.01	-2.21	24.00	-3.78	-1.39
JV3CG3		24.00	-4.01	-1.48	25.00	-2.78	-1.02
KHL4T2		32.00	3.99	1.47	32.50	4.72	1.74
KKCBAR	*	26.00	-2.01	-0.74	29.00	1.22	0.45
KLPPYL		29.50	1.49	0.55	30.50	2.72	1.00
L9VNZQ		29.00	0.99	0.37	28.00	0.22	0.08
LAB38Z		28.80	0.79	0.29	27.80	0.02	0.01
LKRY6R		30.75	2.74	1.01	29.45	1.67	0.62
LNQAZR		25.50	-2.51	-0.92	27.50	-0.28	-0.10
LZ4AWK		28.50	0.49	0.18	29.50	1.72	0.63
M27UXQ		25.60	-2.41	-0.89	24.40	-3.38	-1.24
M9APZY		26.50	-1.51	-0.56	25.00	-2.78	-1.02
MBGWJQ		28.55	0.54	0.20	28.85	1.07	0.40
MUAVPP		28.50	0.49	0.18	28.00	0.22	0.08
MWFFCP		29.50	1.49	0.55	30.00	2.22	0.82
N4X4QR		30.00	1.99	0.73	30.00	2.22	0.82
N8UR8Y		26.50	-1.51	-0.56	26.00	-1.78	-0.65
NCAZVX		27.50	-0.51	-0.19	28.00	0.22	0.08
NPUFYX		31.50	3.49	1.29	31.50	3.72	1.37
NQA29Y		27.50	-0.51	-0.19	27.50	-0.28	-0.10
P2JXNM		27.21	-0.80	-0.29	27.33	-0.45	-0.17



ASEV-CTS Wine Industry Interlaboratory Testing Program

Report #066
Fall 2020

Analysis 903 Free Sulfur Dioxide

WebCode	Data Flag	Sample SA31			Sample SA32		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
PGEH8W		26.00	-2.01	-0.74	25.50	-2.28	-0.84
PVJEQX		24.50	-3.51	-1.29	24.60	-3.18	-1.17
PWQWNU		30.50	2.49	0.92	29.50	1.72	0.63
PZUR9W		27.00	-1.01	-0.37	26.50	-1.28	-0.47
QE6THR		28.00	-0.01	0.00	27.00	-0.78	-0.29
QNQWKL		29.00	0.99	0.37	28.50	0.72	0.27
RRA94N		29.50	1.49	0.55	29.50	1.72	0.63
T9RQAU		31.00	2.99	1.10	31.00	3.22	1.19
TEDT9J	*	21.50	-6.51	-2.40	20.00	-7.78	-2.86
THHCER		33.50	5.49	2.02	31.50	3.72	1.37
TXT3AK	*	21.33	-6.68	-2.46	22.23	-5.55	-2.04
UFQD2T		30.00	1.99	0.73	28.00	0.22	0.08
UXQNKQ		26.50	-1.51	-0.56	28.00	0.22	0.08
V3Z23P		26.00	-2.01	-0.74	25.00	-2.78	-1.02
VPQKNK		28.00	-0.01	0.00	29.00	1.22	0.45
VV3CKK		27.62	-0.39	-0.15	26.34	-1.44	-0.53
W866NG		27.50	-0.51	-0.19	28.00	0.22	0.08
WATTMN		31.00	2.99	1.10	29.50	1.72	0.63
WFFLYM		29.75	1.74	0.64	29.50	1.72	0.63
WHL4XJ		23.00	-5.01	-1.85	22.00	-5.78	-2.13
WMW4BA		28.00	-0.01	0.00	26.00	-1.78	-0.65
X3AR6P		28.00	-0.01	0.00	26.50	-1.28	-0.47
XAB2CH		23.25	-4.76	-1.75	23.85	-3.93	-1.45
XUFMCN		26.00	-2.01	-0.74	24.00	-3.78	-1.39
Y9AN4F		26.50	-1.51	-0.56	27.00	-0.78	-0.29
YA3JQN		28.00	-0.01	0.00	29.50	1.72	0.63
YEXBYL		29.50	1.49	0.55	27.50	-0.28	-0.10
YMAE2D		26.00	-2.01	-0.74	26.00	-1.78	-0.65
ZCAYZF		29.05	1.04	0.38	29.40	1.62	0.60
ZFMYUL		27.90	-0.11	-0.04	27.90	0.12	0.05



Analysis 903
Free Sulfur Dioxide

Grand Means		Summary Statistics	
	28.009 mg/L		27.776 mg/L
Std Dev Btwn Labs			2.716 mg/L
	2.713 mg/L		
Statistics based on 99 of 100 reporting participants			

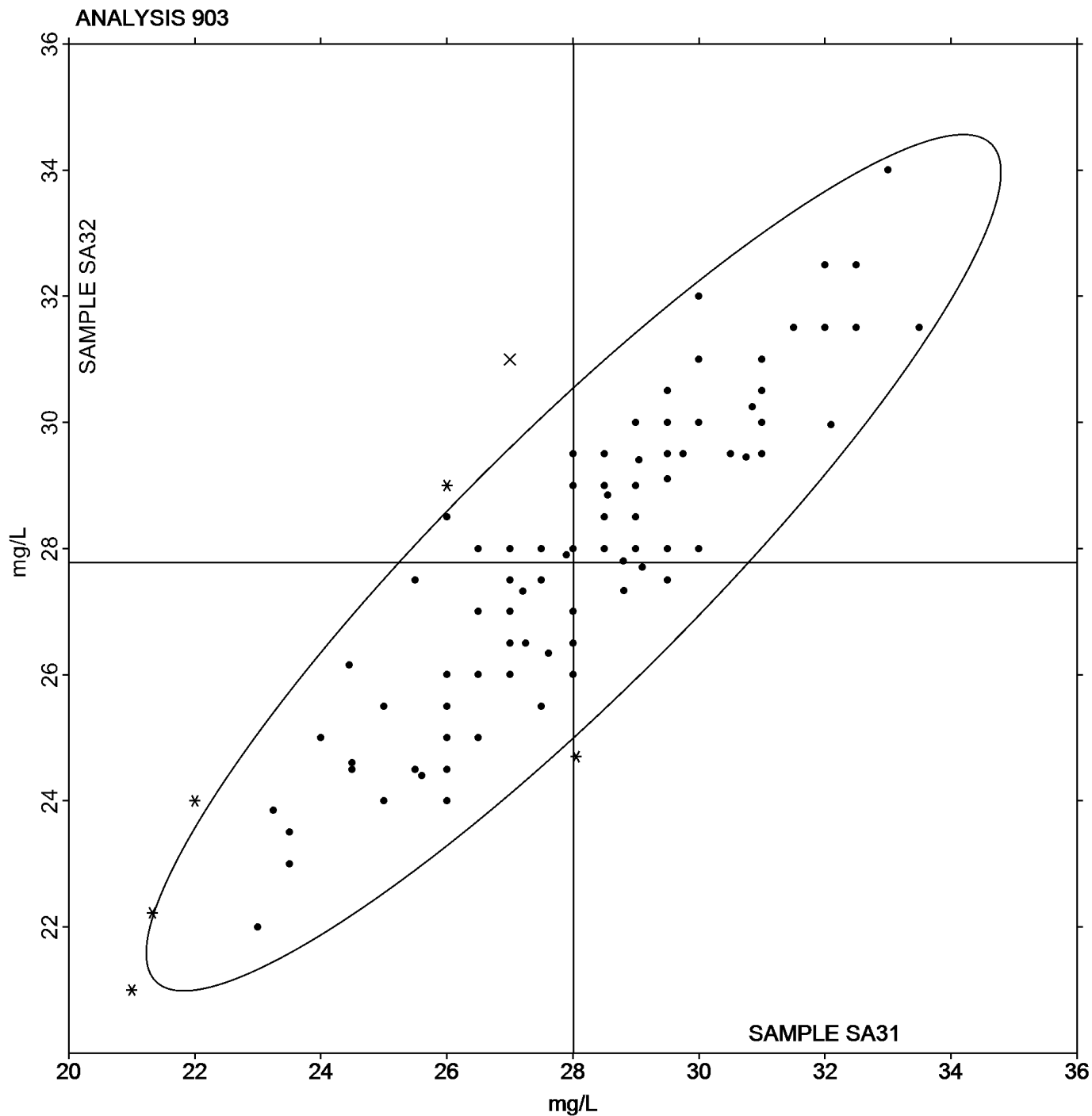
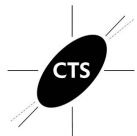
Wines tested: SA31: White Blend; SA32: White Blend

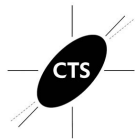
Comments on Assigned Data Flags for Test #903

88QD79 (X) - Inconsistent in testing between samples.

Results by Methodology (as reported by laboratory)

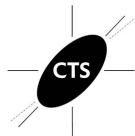
Test Methodology	Sample SA31 <i>White Blend</i>			Sample SA32 <i>White Blend</i>			Labs Incl / Rpt
	Group Mean	Btwn Lab STD	Diff from GM	Group Mean	Btwn Lab STD	Diff from GM	
Please specify method used	30.500	0.000	2.49	29.500	0.000	1.72	1/1
Ripper Method	28.581	2.484	0.57	28.339	2.514	0.56	36/37
Aeration Oxidation (AO) Method	27.813	2.561	-0.20	27.775	2.681	0.00	30/30
Segmented Flow Analyzer	26.931	3.070	-1.08	26.844	2.981	-0.93	8/8
Enzymatic Method	24.333	3.329	-3.68	24.167	4.856	-3.61	3/3
Colormetric Analyzer	27.506	3.186	-0.50	26.725	2.833	-1.05	8/8
Flow Injection Analysis	28.598	1.303	0.59	27.887	1.630	0.11	8/8
FTIR	28.370	4.181	0.36	28.550	3.033	0.77	5/5





Analysis 904
Titratable Acidity

WebCode	Data Flag	Sample SA31			Sample SA32		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
23H4BK		6.500	-0.172	-0.73	6.500	-0.162	-0.68
2GEHBD	X	7.750	1.078	4.54	7.300	0.638	2.70
2NELGC		6.510	-0.163	-0.69	6.574	-0.088	-0.37
2YHRFK		6.700	0.028	0.12	6.700	0.038	0.16
2ZURCE		6.670	-0.002	-0.01	6.680	0.018	0.08
39HRKB		6.410	-0.262	-1.10	6.410	-0.252	-1.06
3ATT7A		6.410	-0.262	-1.10	6.420	-0.242	-1.02
3E7PUK		6.985	0.313	1.32	6.980	0.318	1.35
43RPZC		6.800	0.128	0.54	6.750	0.088	0.37
46XANC		6.550	-0.122	-0.51	6.500	-0.162	-0.68
4GC8TF		6.445	-0.227	-0.96	6.455	-0.207	-0.87
6MUWRF		6.560	-0.112	-0.47	6.575	-0.087	-0.37
6TKARJ		6.550	-0.122	-0.51	6.450	-0.212	-0.89
74AU37		6.700	0.028	0.12	6.650	-0.012	-0.05
7TUX7F		6.500	-0.172	-0.73	6.400	-0.262	-1.11
88QD79		7.100	0.428	1.80	7.100	0.438	1.85
8H9UXF	X	7.460	0.788	3.32	7.585	0.923	3.90
93DW86		6.670	-0.002	-0.01	6.655	-0.007	-0.03
98AH3D		6.600	-0.072	-0.30	6.600	-0.062	-0.26
9ADBWC	X	7.480	0.808	3.40	7.465	0.803	3.39
9CJVKC	X	7.215	0.543	2.29	7.050	0.388	1.64
9W8H3E		6.450	-0.222	-0.94	6.400	-0.262	-1.11
A3NDJ9		6.900	0.228	0.96	6.900	0.238	1.01
A9B6Q3		6.745	0.073	0.31	6.750	0.088	0.37
AHL8C3		6.590	-0.082	-0.35	6.610	-0.052	-0.22
AZ4BR4		6.500	-0.172	-0.73	6.450	-0.212	-0.89
BMAE7V	*	7.095	0.423	1.78	7.000	0.338	1.43
BMRHL9		6.500	-0.172	-0.73	6.500	-0.162	-0.68
C4VCT9		6.615	-0.057	-0.24	6.615	-0.047	-0.20
C8TVV8		7.075	0.403	1.70	7.070	0.408	1.73
CN3K98		6.500	-0.172	-0.73	6.500	-0.162	-0.68
CPWBC2		6.825	0.153	0.64	6.865	0.203	0.86
D3UYK7		6.455	-0.217	-0.91	6.450	-0.212	-0.89
DJQW8B		6.610	-0.062	-0.26	6.600	-0.062	-0.26
DLA9L8	X	6.865	0.193	0.81	6.675	0.013	0.06

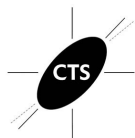


ASEV-CTS Wine Industry Interlaboratory Testing Program

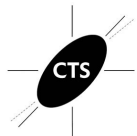
Report #066
Fall 2020

Analysis 904
Titratable Acidity

WebCode	Data Flag	Sample SA31			Sample SA32		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
DYTVRY		6.425	-0.247	-1.04	6.435	-0.227	-0.96
E4QJ4Y	*	6.465	-0.207	-0.87	6.570	-0.092	-0.39
EATTAR		6.800	0.128	0.54	6.800	0.138	0.58
FZPTJ6	X	5.950	-0.722	-3.04	6.250	-0.412	-1.74
GM9KV4		6.400	-0.272	-1.15	6.300	-0.362	-1.53
H4XVH7		7.095	0.423	1.78	7.090	0.428	1.81
HFPGN2	*	6.075	-0.597	-2.52	6.075	-0.587	-2.48
HKK9WY		6.450	-0.222	-0.94	6.425	-0.237	-1.00
HPDDP3		6.750	0.078	0.33	6.750	0.088	0.37
HQAX9V		6.795	0.123	0.52	6.720	0.058	0.25
HQRY4		6.600	-0.072	-0.30	6.600	-0.062	-0.26
HTUXAW		6.600	-0.072	-0.30	6.600	-0.062	-0.26
HUMTW7		6.480	-0.192	-0.81	6.475	-0.187	-0.79
J8QGKT		7.000	0.328	1.38	6.940	0.278	1.18
JED2UZ		6.600	-0.072	-0.30	6.590	-0.072	-0.30
JV3CG3		6.470	-0.202	-0.85	6.450	-0.212	-0.89
KHL4T2	*	6.540	-0.132	-0.56	6.660	-0.002	-0.01
KKCBAR		6.750	0.078	0.33	6.650	-0.012	-0.05
KLPPYL		6.400	-0.272	-1.15	6.400	-0.262	-1.11
L9VNZQ		6.450	-0.222	-0.94	6.450	-0.212	-0.89
LAB38Z		7.010	0.338	1.42	7.000	0.338	1.43
LKRY6R		6.825	0.153	0.64	6.800	0.138	0.58
LNQAZR		6.400	-0.272	-1.15	6.400	-0.262	-1.11
LZ4AWK		6.700	0.028	0.12	6.700	0.038	0.16
M27UXQ	X	6.750	0.078	0.33	7.010	0.348	1.47
M9APZY		6.865	0.193	0.81	6.915	0.253	1.07
MBGWJQ	*	6.865	0.193	0.81	6.955	0.293	1.24
MUAVPP		6.900	0.228	0.96	6.905	0.243	1.03
MWFFCP		6.865	0.193	0.81	6.905	0.243	1.03
N4X4QR		7.000	0.328	1.38	7.000	0.338	1.43
N8UR8Y		6.600	-0.072	-0.30	6.600	-0.062	-0.26
NCAZVX		6.620	-0.052	-0.22	6.560	-0.102	-0.43
NPUFYX		6.830	0.158	0.67	6.820	0.158	0.67
NQA29Y		6.655	-0.017	-0.07	6.560	-0.102	-0.43
P2JXNM		6.575	-0.097	-0.41	6.570	-0.092	-0.39

Analysis 904
Titratable Acidity

WebCode	Data Flag	Sample SA31			Sample SA32		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
PGEH8W	X	6.475	-0.197	-0.83	6.625	-0.037	-0.15
PVJEQX		6.550	-0.122	-0.51	6.575	-0.087	-0.37
PZUR9W		6.805	0.133	0.56	6.755	0.093	0.39
QE6THR		6.940	0.268	1.13	6.955	0.293	1.24
QNQWKL		6.500	-0.172	-0.73	6.500	-0.162	-0.68
RRA94N		6.400	-0.272	-1.15	6.400	-0.262	-1.11
T9RQAU		6.180	-0.492	-2.07	6.180	-0.482	-2.03
TEDT9J		7.050	0.378	1.59	7.050	0.388	1.64
THHCER		6.470	-0.202	-0.85	6.465	-0.197	-0.83
TXT3AK		6.135	-0.537	-2.26	6.170	-0.492	-2.08
UFQD2T		6.900	0.228	0.96	6.900	0.238	1.01
UXQNKQ		6.900	0.228	0.96	6.850	0.188	0.80
V3Z23P		6.900	0.228	0.96	6.950	0.288	1.22
VPAC3J		6.900	0.228	0.96	6.900	0.238	1.01
VPQNKN		6.700	0.028	0.12	6.700	0.038	0.16
VV3CKK	X	7.176	0.503	2.12	7.370	0.708	2.99
W866NG		6.700	0.028	0.12	6.650	-0.012	-0.05
WATTMN		6.600	-0.072	-0.30	6.650	-0.012	-0.05
WFFLYM		6.390	-0.282	-1.19	6.415	-0.247	-1.04
WHL4XJ	*	7.325	0.653	2.75	7.305	0.643	2.72
WMW4BA		6.340	-0.332	-1.40	6.260	-0.402	-1.70
X3AR6P		6.705	0.033	0.14	6.665	0.003	0.01
XAB2CH		6.850	0.178	0.75	6.800	0.138	0.58
XUFMCN		6.850	0.178	0.75	6.750	0.088	0.37
Y9AN4F		6.700	0.028	0.12	6.700	0.038	0.16
YA3JQN	X	7.300	0.628	2.65	7.050	0.388	1.64
YEXBYL		6.920	0.248	1.04	6.835	0.173	0.73
YMAE2D		6.500	-0.172	-0.73	6.500	-0.162	-0.68
ZCAYZF		7.077	0.405	1.71	7.051	0.389	1.64
ZFMYUL		6.830	0.158	0.67	6.830	0.168	0.71



Analysis 904
Titratable Acidity

		Summary Statistics	
Grand Means	6.6721 g/L as tartaric acid	6.6616 g/L as tartaric acid	
Stnd Dev Btwn Labs	0.2374 g/L as tartaric acid	0.2367 g/L as tartaric acid	
Statistics based on 90 of 100 reporting participants			

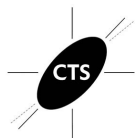
Wines tested: SA31: White Blend; SA32: White Blend

Comments on Assigned Data Flags for Test #904

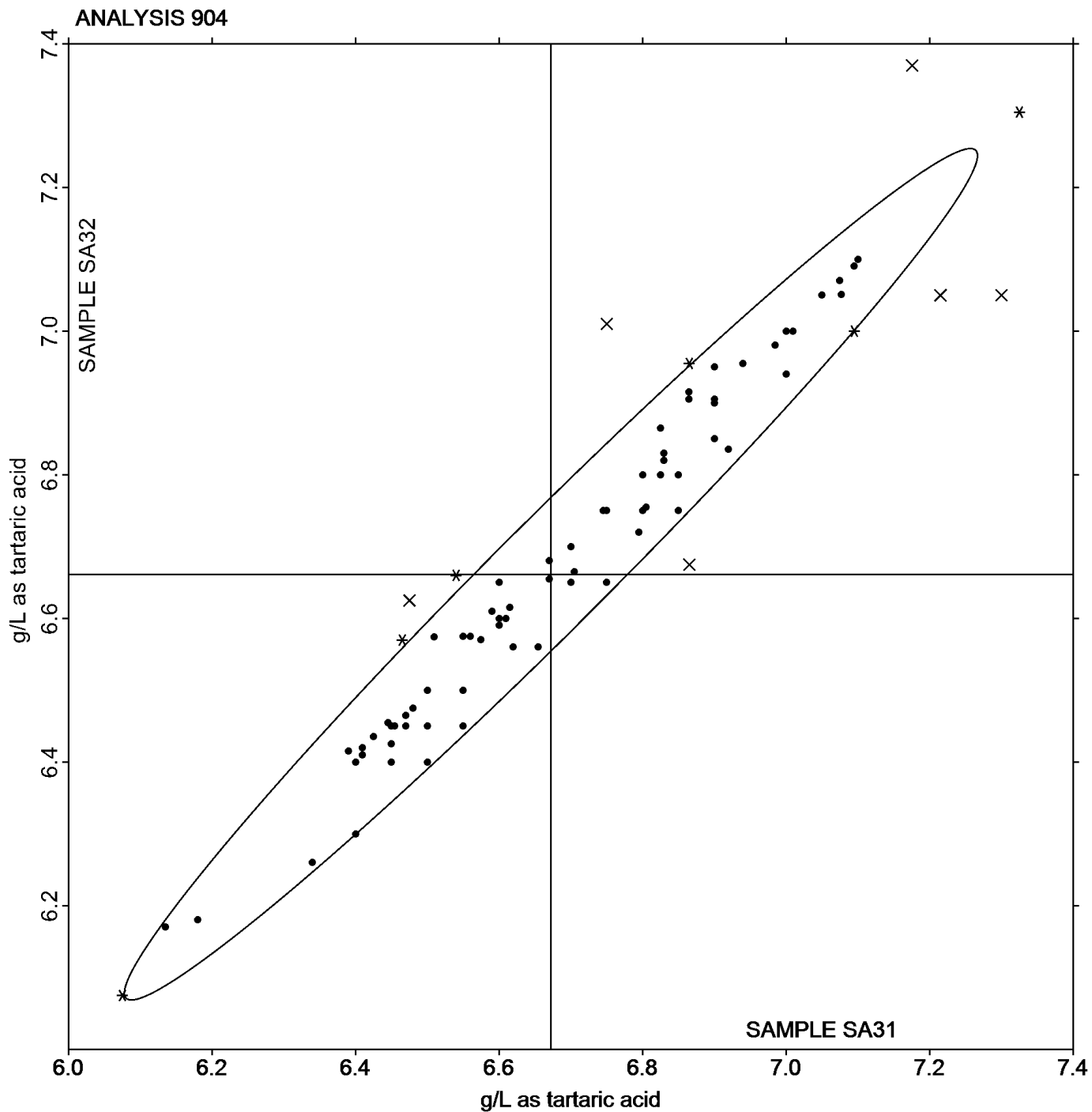
- DLA9L8 (X) - Inconsistent in testing between samples.
- 9ADBWC (X) - Data for both samples are high. Possible Systematic Error. Inconsistent within the determinations of sample SA32.
- FZPTJ6 (X) - Data for sample SA31 are low. Inconsistent within the determinations of both samples.
- 9CJVKC (X) - Inconsistent in testing between samples.
- YA3JQN (X) - Inconsistent in testing between samples.
- PGEH8W (X) - Inconsistent in testing between samples.
- 8H9UXF (X) - Data for both samples are high. Possible Systematic Error.
- VV3CKK (X) - Data for sample SA32 are high. Inconsistent within the determinations of sample SA32.
- 2GEHBD (X) - Data for sample SA31 are high. Inconsistent within the determinations of sample SA31.
- M27UXQ (X) - Inconsistent in testing between samples.

Results by Methodology (as reported by laboratory)

Test Methodology	Sample SA31 <i>White Blend</i>			Sample SA32 <i>White Blend</i>			Labs Incl / Rpt
	Group Mean	Btwn Lab STD	Diff from GM	Group Mean	Btwn Lab STD	Diff from GM	
Autotitration	6.669	0.219	-0.004	6.661	0.219	0.000	60/65
Manual Titration	6.638	0.291	-0.034	6.616	0.285	-0.046	22/26
FTIR	6.792	0.194	0.120	6.791	0.192	0.129	8/8
Segmented Flow Analyzer							0/1



Analysis 904
Titratable Acidity



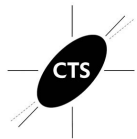


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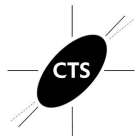
Analysis 905
Volatile Acidity

WebCode	Data Flag	Sample SA31			Sample SA32		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
23H4BK		0.2300	-0.0093	-0.24	0.2250	-0.0134	-0.36
2GEHBD		0.2800	0.0407	1.06	0.2800	0.0416	1.12
2NELGC		0.2300	-0.0093	-0.24	0.2400	0.0016	0.04
2ZURCE	X	0.2400	0.0007	0.02	0.3000	0.0616	1.65
39HRKB		0.2350	-0.0043	-0.11	0.2300	-0.0084	-0.23
3ATT7A		0.2600	0.0207	0.54	0.2400	0.0016	0.04
3E7PUK	*	0.1250	-0.1143	-2.97	0.1300	-0.1084	-2.91
43RPZC		0.2450	0.0057	0.15	0.2400	0.0016	0.04
46XANC	X	0.2950	0.0557	1.45	0.2250	-0.0134	-0.36
4GC8TF		0.1750	-0.0643	-1.67	0.1750	-0.0634	-1.70
6MUWRF		0.2150	-0.0243	-0.63	0.2150	-0.0234	-0.63
6TKARJ		0.2200	-0.0193	-0.50	0.2400	0.0016	0.04
74AU37		0.2650	0.0257	0.67	0.2950	0.0566	1.52
7TUX7F		0.2200	-0.0193	-0.50	0.2000	-0.0384	-1.03
88QD79		0.2100	-0.0293	-0.76	0.2100	-0.0284	-0.76
8H9UXF		0.2500	0.0107	0.28	0.2550	0.0166	0.45
93DW86		0.2400	0.0007	0.02	0.2400	0.0016	0.04
98AH3D		0.2750	0.0357	0.93	0.2650	0.0266	0.71
9ADBWC		0.2885	0.0492	1.28	0.2900	0.0516	1.38
9CJVKC		0.2100	-0.0293	-0.76	0.2400	0.0016	0.04
9W8H3E		0.2150	-0.0243	-0.63	0.2300	-0.0084	-0.23
A3NDJ9		0.1850	-0.0543	-1.41	0.1850	-0.0534	-1.43
A9B6Q3		0.1550	-0.0843	-2.19	0.1550	-0.0834	-2.24
AHL8C3		0.2600	0.0207	0.54	0.2600	0.0216	0.58
AZ4BR4		0.2050	-0.0343	-0.89	0.2000	-0.0384	-1.03
BMAE7V	X	0.3700	0.1307	3.39	0.3900	0.1516	4.07
BMRHL9		0.2400	0.0007	0.02	0.2500	0.0116	0.31
C4VCT9		0.2650	0.0257	0.67	0.2450	0.0066	0.18
C8TVV8		0.2200	-0.0193	-0.50	0.2200	-0.0184	-0.49
CN3K98		0.2100	-0.0293	-0.76	0.2250	-0.0134	-0.36
CPWBC2	*	0.3365	0.0972	2.52	0.3290	0.0906	2.43
D3UYK7		0.2250	-0.0143	-0.37	0.2300	-0.0084	-0.23
DJQW8B		0.2700	0.0307	0.80	0.2800	0.0416	1.12
DLA9L8		0.3000	0.0607	1.58	0.2700	0.0316	0.85
DYTVRY		0.2900	0.0507	1.32	0.3000	0.0616	1.65



Analysis 905
Volatile Acidity

WebCode	Data Flag	Sample SA31			Sample SA32		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
E4QJ4Y	*	0.3315	0.0922	2.39	0.3400	0.1016	2.73
EATTAR		0.2400	0.0007	0.02	0.2400	0.0016	0.04
FZPTJ6		0.2400	0.0007	0.02	0.2200	-0.0184	-0.49
GM9KV4		0.1600	-0.0793	-2.06	0.1550	-0.0834	-2.24
H4XVH7		0.2450	0.0057	0.15	0.2400	0.0016	0.04
HFPGN2		0.2520	0.0127	0.33	0.2520	0.0136	0.37
HKK9WY		0.2150	-0.0243	-0.63	0.2100	-0.0284	-0.76
HPDDP3		0.2350	-0.0043	-0.11	0.2500	0.0116	0.31
HQAX9V		0.2500	0.0107	0.28	0.2700	0.0316	0.85
HQRY4		0.1600	-0.0793	-2.06	0.1600	-0.0784	-2.10
HTUXAW		0.2600	0.0207	0.54	0.2650	0.0266	0.71
HUMTW7		0.2155	-0.0238	-0.62	0.2070	-0.0314	-0.84
J8QGKT		0.2600	0.0207	0.54	0.2350	-0.0034	-0.09
JED2UZ		0.2300	-0.0093	-0.24	0.2300	-0.0084	-0.23
JV3CG3		0.2700	0.0307	0.80	0.2600	0.0216	0.58
KHL4T2		0.2200	-0.0193	-0.50	0.2550	0.0166	0.45
KKCBAR		0.3000	0.0607	1.58	0.2650	0.0266	0.71
KLPPYL		0.2000	-0.0393	-1.02	0.2000	-0.0384	-1.03
L9VNZQ		0.2500	0.0107	0.28	0.2500	0.0116	0.31
LAB38Z		0.1950	-0.0443	-1.15	0.1800	-0.0584	-1.57
LNQAZR		0.2500	0.0107	0.28	0.2350	-0.0034	-0.09
LZ4AWK		0.2400	0.0007	0.02	0.2500	0.0116	0.31
M9APZY		0.3000	0.0607	1.58	0.3000	0.0616	1.65
MBGWJQ		0.2900	0.0507	1.32	0.2850	0.0466	1.25
MUAVPP		0.2800	0.0407	1.06	0.2700	0.0316	0.85
MWFFCP		0.2600	0.0207	0.54	0.2450	0.0066	0.18
N4X4QR		0.2500	0.0107	0.28	0.2600	0.0216	0.58
N8UR8Y		0.2600	0.0207	0.54	0.2500	0.0116	0.31
NCAZVX		0.2350	-0.0043	-0.11	0.2300	-0.0084	-0.23
NPUFYX		0.3000	0.0607	1.58	0.3000	0.0616	1.65
NQA29Y		0.2400	0.0007	0.02	0.2400	0.0016	0.04
P2JXNM		0.2400	0.0007	0.02	0.2400	0.0016	0.04
PGEH8W		0.2550	0.0157	0.41	0.2350	-0.0034	-0.09
PVJEQX		0.2425	0.0032	0.08	0.2365	-0.0019	-0.05
PWQWNU		0.1850	-0.0543	-1.41	0.1900	-0.0484	-1.30

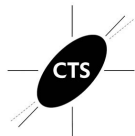


Analysis 905
Volatile Acidity

WebCode	Data Flag	Sample SA31			Sample SA32		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
PZUR9W		0.2150	-0.0243	-0.63	0.2050	-0.0334	-0.90
QE6THR		0.2200	-0.0193	-0.50	0.2150	-0.0234	-0.63
QNQWKL		0.2150	-0.0243	-0.63	0.2200	-0.0184	-0.49
RRA94N	*	0.2420	0.0027	0.07	0.2830	0.0446	1.20
T9RQAU		0.2250	-0.0143	-0.37	0.2350	-0.0034	-0.09
TEDT9J		0.2000	-0.0393	-1.02	0.2100	-0.0284	-0.76
THHCER		0.2200	-0.0193	-0.50	0.2150	-0.0234	-0.63
TXT3AK		0.2150	-0.0243	-0.63	0.2200	-0.0184	-0.49
UFQD2T		0.2500	0.0107	0.28	0.2500	0.0116	0.31
UXQNKQ	X	0.3850	0.1457	3.78	0.4050	0.1666	4.47
V3Z23P		0.2150	-0.0243	-0.63	0.1950	-0.0434	-1.16
VPQNKN		0.2150	-0.0243	-0.63	0.2250	-0.0134	-0.36
VV3CKK	X	0.1300	-0.1093	-2.84	0.0900	-0.1484	-3.98
W866NG	*	0.2050	-0.0343	-0.89	0.2450	0.0066	0.18
WATTMN		0.2350	-0.0043	-0.11	0.2400	0.0016	0.04
WFFLYM		0.2195	-0.0198	-0.51	0.2185	-0.0199	-0.53
WHL4XJ		0.2350	-0.0043	-0.11	0.2050	-0.0334	-0.90
WMW4BA		0.3100	0.0707	1.83	0.2800	0.0416	1.12
X3AR6P		0.2850	0.0457	1.19	0.2550	0.0166	0.45
XAB2CH	*	0.3300	0.0907	2.35	0.2950	0.0566	1.52
XUFMCN		0.2450	0.0057	0.15	0.2500	0.0116	0.31
Y9AN4F	X	0.1050	-0.1343	-3.49	0.1150	-0.1234	-3.31
YA3JQN		0.2500	0.0107	0.28	0.2300	-0.0084	-0.23
YEXBYL		0.2850	0.0457	1.19	0.3100	0.0716	1.92
YMAE2D		0.2350	-0.0043	-0.11	0.2400	0.0016	0.04
ZCAYZF		0.2100	-0.0293	-0.76	0.2000	-0.0384	-1.03
ZFMYUL		0.1960	-0.0433	-1.12	0.2130	-0.0254	-0.68

Grand Means		Summary Statistics	
0.23933	g/L as acetic acid	0.23840	g/L as acetic acid
Std Dev Btwn Labs		0.03727	g/L as acetic acid
0.03852	g/L as acetic acid		
Statistics based on 91 of 97 reporting participants			

Wines tested: SA31: White Blend; SA32: White Blend



Analysis 905
Volatile Acidity

Comments on Assigned Data Flags for Test #905

UXQNKQ (X) - Data for both samples are high. Possible Systematic Error.

Y9AN4F (X) - Data for both samples are low. Possible Systematic Error.

VV3CKK (X) - Data for both samples are low. Possible Systematic Error.

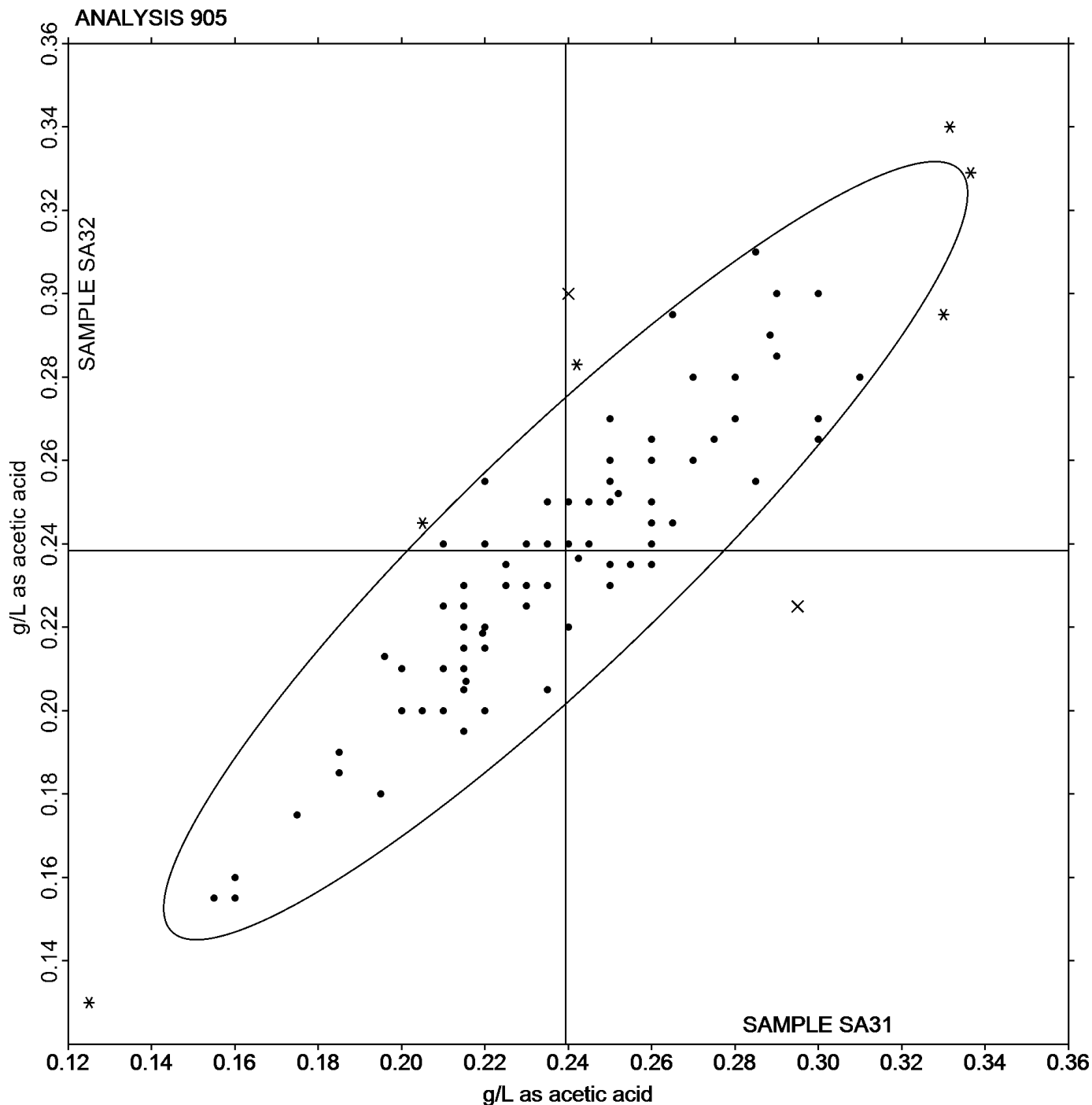
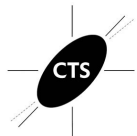
2ZURCE (X) - Inconsistent in testing between samples.

46XANC (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample SA32.

BMAE7V (X) - Data for both samples are high. Possible Systematic Error. Inconsistent within the determinations of sample SA31.

Results by Methodology (as reported by laboratory)

Test Methodology	Sample SA31 <i>White Blend</i>			Sample SA32 <i>White Blend</i>			Labs Incl / Rpt
	Group Mean	Btwn Lab STD	Diff from GM	Group Mean	Btwn Lab STD	Diff from GM	
Please specify method	0.330	0.000	0.0907	0.295	0.000	0.0566	1/1
Cash Still method	0.274	0.037	0.0343	0.265	0.027	0.0267	12/13
Enzymatic method	0.234	0.030	-0.0058	0.234	0.031	-0.0041	61/64
HPLC							0/1
GC	0.285	0.000	0.0457	0.310	0.000	0.0716	1/1
Colorimetric Analysis	0.235	0.000	-0.0043	0.205	0.000	-0.0334	1/1
Seg. Flow / Colorimetric Analyzer	0.245	0.032	0.0057	0.241	0.045	0.0029	4/4
FTIR	0.220	0.054	-0.0191	0.222	0.055	-0.0163	11/12





ASEV-CTS Wine Industry Interlaboratory Testing Program

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Analysis 906 Specific Gravity

WebCode	Data Flag	Sample SA31			Sample SA32		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
23H4BK		0.9959	0.0002	0.25	0.9959	0.0001	0.22
2GEHBD	X	0.9983	0.0025	4.03	0.9982	0.0025	4.02
2NELGC		0.9961	0.0003	0.54	0.9960	0.0003	0.46
2YHRFK	X	0.9958	0.0000	0.00	0.9961	0.0004	0.59
2ZURCE		0.9959	0.0001	0.22	0.9959	0.0001	0.23
39HRKB		0.9950	-0.0007	-1.20	0.9950	-0.0007	-1.21
3ATT7A		0.9958	0.0000	0.04	0.9958	0.0001	0.09
3E7PUK		0.9959	0.0001	0.22	0.9959	0.0001	0.23
43RPZC		0.9959	0.0002	0.28	0.9959	0.0002	0.29
46XANC		0.9959	0.0001	0.22	0.9959	0.0002	0.24
4GC8TF	X	0.9938	-0.0019	-3.11	0.9935	-0.0022	-3.63
6MUWRF		0.9957	0.0000	-0.08	0.9958	0.0000	0.01
6TKARJ		0.9968	0.0010	1.66	0.9968	0.0010	1.69
74AU37		0.9964	0.0007	1.10	0.9962	0.0005	0.80
7TUX7F		0.9970	0.0013	2.00	0.9968	0.0011	1.70
88QD79		0.9959	0.0002	0.30	0.9959	0.0002	0.31
8H9UXF	*	0.9940	-0.0017	-2.79	0.9939	-0.0018	-2.98
93DW86		0.9942	-0.0015	-2.47	0.9942	-0.0015	-2.50
98AH3D		0.9954	-0.0003	-0.56	0.9955	-0.0003	-0.48
9ADBWC		0.9959	0.0002	0.26	0.9959	0.0002	0.31
9CJVKC		0.9958	0.0001	0.08	0.9958	0.0001	0.09
9W8H3E		0.9964	0.0006	1.02	0.9962	0.0004	0.72
AHL8C3		0.9959	0.0002	0.24	0.9957	0.0000	-0.07
AZ4BR4		0.9957	0.0000	-0.08	0.9957	0.0000	-0.07
BMAE7V		0.9969	0.0012	1.84	0.9971	0.0014	2.19
BMRHL9	X	0.9954	-0.0003	-0.53	0.9950	-0.0007	-1.17
C4VCT9		0.9959	0.0001	0.16	0.9959	0.0001	0.17
C8TVV8		0.9960	0.0003	0.43	0.9960	0.0003	0.41
CN3K98	X	0.9934	-0.0024	-3.83	0.9937	-0.0021	-3.39
CPWBC2		0.9958	0.0001	0.11	0.9958	0.0001	0.13
D3UYK7		0.9960	0.0003	0.40	0.9960	0.0002	0.33
DJQW8B		0.9963	0.0005	0.80	0.9964	0.0006	0.98
DYTVRY		0.9958	0.0000	0.02	0.9958	0.0001	0.10
E4QJ4Y		0.9961	0.0004	0.56	0.9961	0.0004	0.57
EATTAR		0.9950	-0.0007	-1.20	0.9950	-0.0007	-1.21



ASEV-CTS Wine Industry Interlaboratory Testing Program

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Analysis 906
Specific Gravity

WebCode	Data Flag	Sample SA31			Sample SA32		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
FZPTJ6		0.9958	0.0001	0.13	0.9958	0.0000	0.03
GM9KV4		0.9959	0.0002	0.27	0.9959	0.0002	0.28
HFPGN2		0.9960	0.0003	0.40	0.9960	0.0003	0.41
HKK9WY		0.9960	0.0002	0.32	0.9960	0.0002	0.33
HPDDP3		0.9958	0.0000	0.06	0.9958	0.0001	0.15
HQAX9V	*	0.9937	-0.0021	-3.35	0.9937	-0.0021	-3.39
HQRY4		0.9953	-0.0005	-0.73	0.9953	-0.0005	-0.74
HTUXAW		0.9968	0.0010	1.66	0.9968	0.0010	1.69
HUMTW7	X	0.9960	0.0002	0.32	0.9952	-0.0005	-0.88
J8QGKT		0.9958	0.0001	0.09	0.9958	0.0000	0.06
JED2UZ		0.9958	0.0000	0.00	0.9957	-0.0001	-0.16
KHL4T2		0.9957	0.0000	-0.08	0.9958	0.0000	0.01
KKCBAR		0.9953	-0.0005	-0.73	0.9955	-0.0002	-0.33
L9VNZQ		0.9959	0.0001	0.17	0.9959	0.0001	0.19
LAB38Z	X	1.0036	0.0079	12.53	1.0041	0.0083	13.42
LKRY6R	*	0.9968	0.0010	1.66	0.9965	0.0008	1.28
LNQAZR		0.9958	0.0001	0.08	0.9958	0.0001	0.09
M27UXQ	X	1.0001	0.0044	7.01	1.0007	0.0049	8.00
M9APZY		0.9955	-0.0002	-0.40	0.9955	-0.0002	-0.40
MBGWJQ		0.9954	-0.0003	-0.56	0.9954	-0.0003	-0.56
MUAVPP		0.9959	0.0001	0.16	0.9960	0.0002	0.33
MWFFCP		0.9961	0.0003	0.48	0.9960	0.0003	0.41
N4X4QR		0.9958	0.0001	0.14	0.9958	0.0001	0.14
N8UR8Y		0.9954	-0.0004	-0.64	0.9954	-0.0004	-0.64
NCAZVX	*	0.9939	-0.0019	-3.01	0.9939	-0.0019	-3.04
NPUFYX		0.9954	-0.0003	-0.56	0.9954	-0.0003	-0.56
NQA29Y		0.9957	0.0000	-0.08	0.9957	0.0000	-0.07
PGEH8W		0.9959	0.0001	0.16	0.9959	0.0001	0.17
PVJEQX		0.9960	0.0002	0.32	0.9960	0.0002	0.33
PZUR9W		0.9957	0.0000	-0.08	0.9958	0.0001	0.09
QE6THR		0.9957	-0.0001	-0.16	0.9957	-0.0001	-0.16
QNQWKL		0.9959	0.0002	0.24	0.9959	0.0001	0.24
RRA94N		0.9941	-0.0016	-2.57	0.9941	-0.0016	-2.61
THHCER		0.9958	0.0000	0.00	0.9958	0.0000	0.01
TXT3AK	X	0.9985	0.0028	4.39	0.9952	-0.0005	-0.88



Analysis 906
Specific Gravity

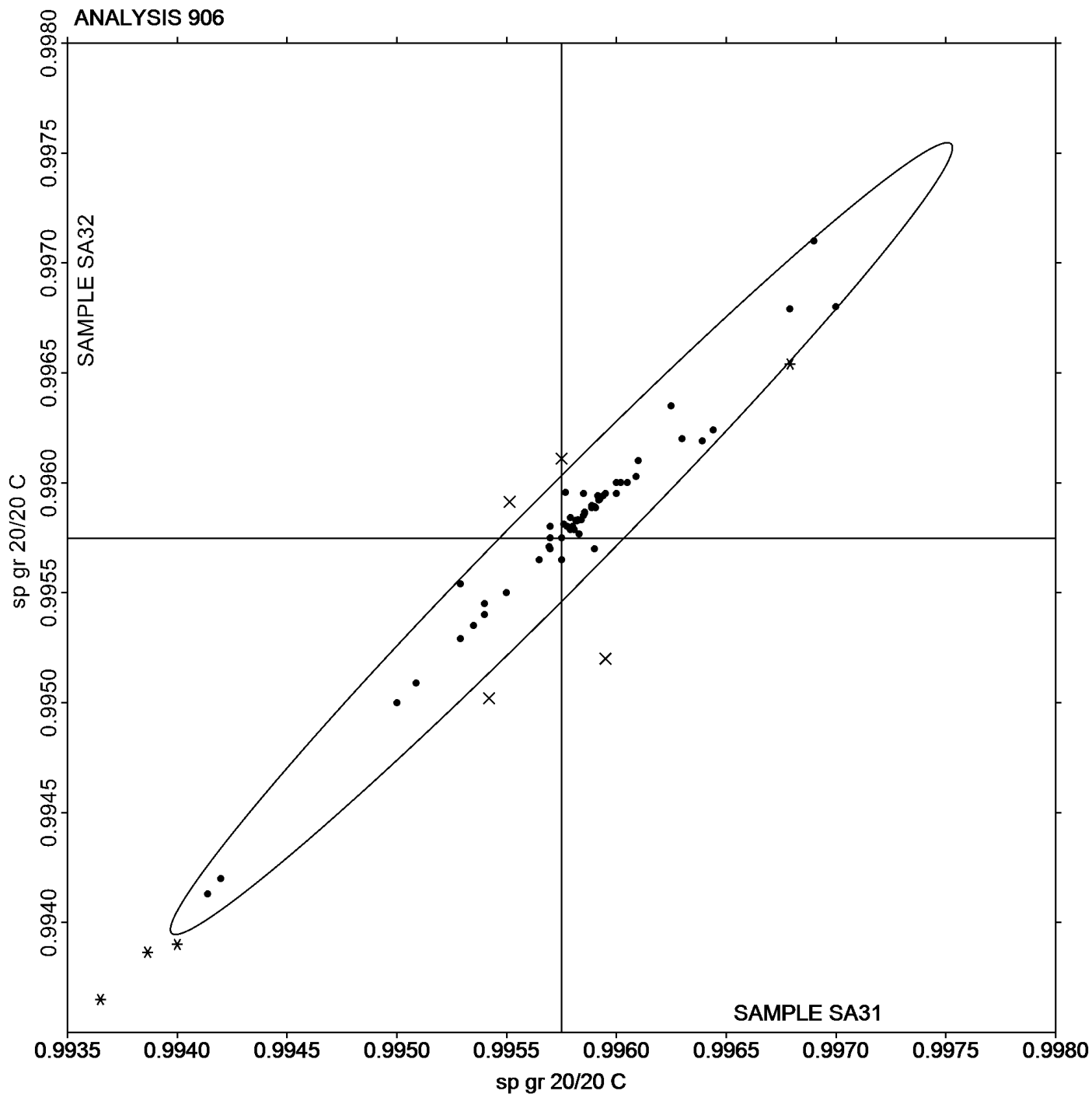
WebCode	Data Flag	Sample SA31			Sample SA32		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
UFQD2T		0.9957	0.0000	-0.08	0.9958	0.0001	0.09
UXQNKQ		0.9958	0.0001	0.11	0.9958	0.0001	0.13
V3Z23P		0.9963	0.0006	0.88	0.9962	0.0005	0.73
VPAC3J		0.9958	0.0001	0.12	0.9958	0.0001	0.14
VPQNKN		0.9957	-0.0001	-0.09	0.9957	0.0000	-0.06
VV3CKK	X	0.9955	-0.0002	-0.38	0.9959	0.0002	0.27
W866NG		0.9958	0.0000	0.03	0.9960	0.0002	0.34
WFFLYM		0.9959	0.0001	0.17	0.9959	0.0001	0.18
WHL4XJ		0.9951	-0.0007	-1.05	0.9951	-0.0007	-1.06
YA3JQN	X	1.0045	0.0088	13.97	1.0045	0.0088	14.15
YEXBYL		0.9959	0.0002	0.26	0.9959	0.0002	0.31
YMAE2D		0.9958	0.0001	0.08	0.9958	0.0001	0.09
ZCAYZF		0.9958	0.0000	0.06	0.9958	0.0000	0.06
ZFMYUL		0.9968	0.0010	1.66	0.9968	0.0010	1.69

Grand Means		Summary Statistics	
0.99575	sp gr 20/20 C	0.99575	sp gr 20/20 C
Std Dev Btwn Labs			
0.00063	sp gr 20/20 C	0.00062	sp gr 20/20 C
Statistics based on 73 of 84 reporting participants			

Wines tested: SA31: White Blend; SA32: White Blend

Comments on Assigned Data Flags for Test #906

- 2YHRFK (X) - Inconsistent in testing between samples.
- 4GC8TF (X) - Data for both samples are low.
- CN3K98 (X) - Data for both samples are low.
- BMRHL9 (X) - Inconsistent in testing between samples.
- YA3JQN (X) - Data for both samples are high.
- HUMTW7 (X) - Inconsistent in testing between samples.
- LAB38Z (X) - Data for both samples are high.
- VV3CKK (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample SA31.
- 2GEHBD (X) - Data for both samples are high.
- M27UXQ (X) - Data for both samples are high.
- TXT3AK (X) - Data for sample SA31 are high.





ASEV-CTS Wine Industry Interlaboratory Testing Program

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Analysis 907

pH

WebCode	Data Flag	Sample SA31			Sample SA32		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
23H4BK		3.120	0.041	1.38	3.120	0.042	1.41
2GEHBD	X	2.990	-0.089	-2.96	3.055	-0.023	-0.78
2GX2GK		3.080	0.001	0.05	3.080	0.002	0.06
2NELGC		3.054	-0.025	-0.84	3.047	-0.032	-1.06
2YHRFK		3.070	-0.009	-0.29	3.080	0.002	0.06
2ZURCE		3.040	-0.039	-1.29	3.040	-0.038	-1.28
39HRKB		3.075	-0.004	-0.12	3.080	0.002	0.06
3ATT7A		3.080	0.001	0.05	3.090	0.012	0.40
3E7PUK	*	3.165	0.086	2.89	3.165	0.087	2.92
43RPZC		3.100	0.021	0.72	3.085	0.007	0.23
46XANC		3.115	0.036	1.22	3.115	0.037	1.24
4GC8TF		3.080	0.001	0.05	3.070	-0.008	-0.27
6MUWRF		3.050	-0.029	-0.96	3.060	-0.018	-0.61
6TKARJ	X	3.045	-0.034	-1.12	3.105	0.027	0.90
74AU37		3.035	-0.044	-1.46	3.050	-0.028	-0.95
7TUX7F		3.050	-0.029	-0.96	3.040	-0.038	-1.28
88QD79		3.120	0.041	1.38	3.120	0.042	1.41
8H9UXF	*	3.165	0.086	2.89	3.155	0.077	2.58
93DW86		3.077	-0.002	-0.05	3.077	-0.002	-0.06
98AH3D	X	3.160	0.081	2.72	3.140	0.062	2.08
9ADBWC	X	3.215	0.136	4.56	3.210	0.132	4.43
9CJVKC		3.065	-0.014	-0.46	3.070	-0.008	-0.27
9W8H3E		3.035	-0.044	-1.46	3.045	-0.033	-1.11
A3NDJ9		3.105	0.026	0.88	3.110	0.032	1.07
A9B6Q3		3.080	0.001	0.05	3.080	0.002	0.06
AHL8C3		3.080	0.001	0.05	3.080	0.002	0.06
AZ4BR4		3.130	0.051	1.72	3.135	0.057	1.91
BMAE7V		3.085	0.006	0.21	3.100	0.022	0.73
BMRHL9		3.060	-0.019	-0.62	3.050	-0.028	-0.95
C4VCT9		3.095	0.016	0.55	3.090	0.012	0.40
C8TVV8	X	3.185	0.106	3.56	3.180	0.102	3.42
CN3K98		3.040	-0.039	-1.29	3.050	-0.028	-0.95
CPWBC2	*	3.060	-0.019	-0.62	3.040	-0.038	-1.28
D3UYK7		3.055	-0.024	-0.79	3.060	-0.018	-0.61
DJQW8B	X	2.945	-0.134	-4.47	2.940	-0.138	-4.64



ASEV-CTS Wine Industry Interlaboratory Testing Program

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Analysis 907

Fall 2020

pH

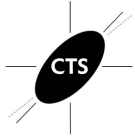
WebCode	Data Flag	Sample SA31			Sample SA32		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
DLA9L8		3.065	-0.014	-0.46	3.055	-0.023	-0.78
DYTVRY		3.085	0.006	0.20	3.085	0.006	0.21
E4QJ4Y		3.040	-0.039	-1.29	3.030	-0.048	-1.62
EATTAR		3.100	0.021	0.72	3.100	0.022	0.73
GM9KV4		3.070	-0.009	-0.29	3.070	-0.008	-0.27
H4XVH7		3.045	-0.034	-1.12	3.035	-0.043	-1.45
HFPGN2		3.110	0.031	1.05	3.110	0.032	1.07
HKK9WY		3.050	-0.029	-0.96	3.045	-0.033	-1.11
HPDDP3		3.115	0.036	1.22	3.115	0.037	1.24
HQAX9V		3.095	0.016	0.55	3.110	0.032	1.07
HQRY4	X	3.010	-0.069	-2.30	2.990	-0.088	-2.96
HTUXAW		3.070	-0.009	-0.29	3.075	-0.003	-0.11
HUMTW7		3.096	0.017	0.58	3.093	0.015	0.50
J8QGKT		3.110	0.031	1.05	3.120	0.042	1.41
JED2UZ		3.045	-0.034	-1.12	3.035	-0.043	-1.45
JV3CG3		3.060	-0.019	-0.62	3.060	-0.018	-0.61
KHL4T2		3.110	0.031	1.05	3.110	0.032	1.07
KKCBAR		3.080	0.001	0.05	3.080	0.002	0.06
KLPPYL	*	3.080	0.001	0.05	3.100	0.022	0.73
L9VNZQ		3.080	0.001	0.05	3.070	-0.008	-0.27
LAB38Z	X	3.035	-0.044	-1.48	3.059	-0.019	-0.64
LKRY6R	X	3.000	-0.079	-2.63	3.030	-0.048	-1.62
LNQAZR		3.090	0.011	0.38	3.090	0.012	0.40
LZ4AWK		3.100	0.021	0.72	3.100	0.022	0.73
M27UXQ		3.090	0.011	0.38	3.080	0.002	0.06
M9APZY	X	3.165	0.086	2.89	3.195	0.117	3.93
MBGWJQ		3.125	0.046	1.55	3.130	0.052	1.74
MUAVPP		3.090	0.011	0.38	3.090	0.012	0.40
MWFFCP		3.070	-0.009	-0.29	3.085	0.007	0.23
N4X4QR		3.070	-0.009	-0.29	3.060	-0.018	-0.61
N8UR8Y		3.050	-0.029	-0.96	3.050	-0.028	-0.95
NCAZVX		3.100	0.021	0.72	3.100	0.022	0.73
NPUFYX		3.100	0.021	0.72	3.090	0.012	0.40
NQA29Y		3.055	-0.024	-0.79	3.050	-0.028	-0.95
P2JXNM		3.080	0.001	0.05	3.077	-0.002	-0.06



Analysis 907

pH

WebCode	Data Flag	Sample SA31			Sample SA32		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
PGEH8W		3.095	0.016	0.55	3.090	0.012	0.40
PVJEQX		3.069	-0.010	-0.34	3.069	-0.010	-0.32
PWQWNU		3.010	-0.069	-2.30	3.015	-0.063	-2.12
PZUR9W		3.105	0.026	0.88	3.110	0.032	1.07
QE6THR		3.105	0.026	0.88	3.100	0.022	0.73
QNQWKL		3.100	0.021	0.72	3.100	0.022	0.73
RRA94N	X	2.955	-0.124	-4.14	3.100	0.022	0.73
T9RQAU		3.060	-0.019	-0.62	3.065	-0.013	-0.44
TEDT9J		3.065	-0.014	-0.46	3.070	-0.008	-0.27
THHCER		3.095	0.016	0.55	3.095	0.017	0.57
TXT3AK		3.075	-0.004	-0.12	3.070	-0.008	-0.27
UFQD2T		3.060	-0.019	-0.62	3.060	-0.018	-0.61
UXQNKQ		3.090	0.011	0.38	3.085	0.007	0.23
V3Z23P		3.050	-0.029	-0.96	3.050	-0.028	-0.95
VPQNKN		3.080	0.001	0.05	3.080	0.002	0.06
VV3CKK		3.060	-0.019	-0.62	3.050	-0.028	-0.95
W866NG		3.095	0.016	0.55	3.080	0.002	0.06
WATTMN		3.090	0.011	0.38	3.080	0.002	0.06
WFFLYM		3.100	0.021	0.72	3.100	0.022	0.73
WHL4XJ		3.085	0.006	0.21	3.080	0.002	0.06
WMW4BA	*	3.150	0.071	2.39	3.140	0.062	2.08
X3AR6P		3.035	-0.044	-1.46	3.040	-0.038	-1.28
XAB2CH	X	3.250	0.171	5.73	3.245	0.167	5.61
XUFMCN		3.050	-0.029	-0.96	3.055	-0.023	-0.78
Y9AN4F		3.045	-0.034	-1.12	3.050	-0.028	-0.95
YA3JQN		3.030	-0.049	-1.63	3.040	-0.038	-1.28
YEXBYL	X	2.975	-0.104	-3.47	3.005	-0.073	-2.46
YMAE2D		3.030	-0.049	-1.63	3.030	-0.048	-1.62
ZCAYZF		3.030	-0.049	-1.63	3.035	-0.044	-1.47
ZFMYUL		3.090	0.011	0.38	3.080	0.002	0.06



Analysis 907

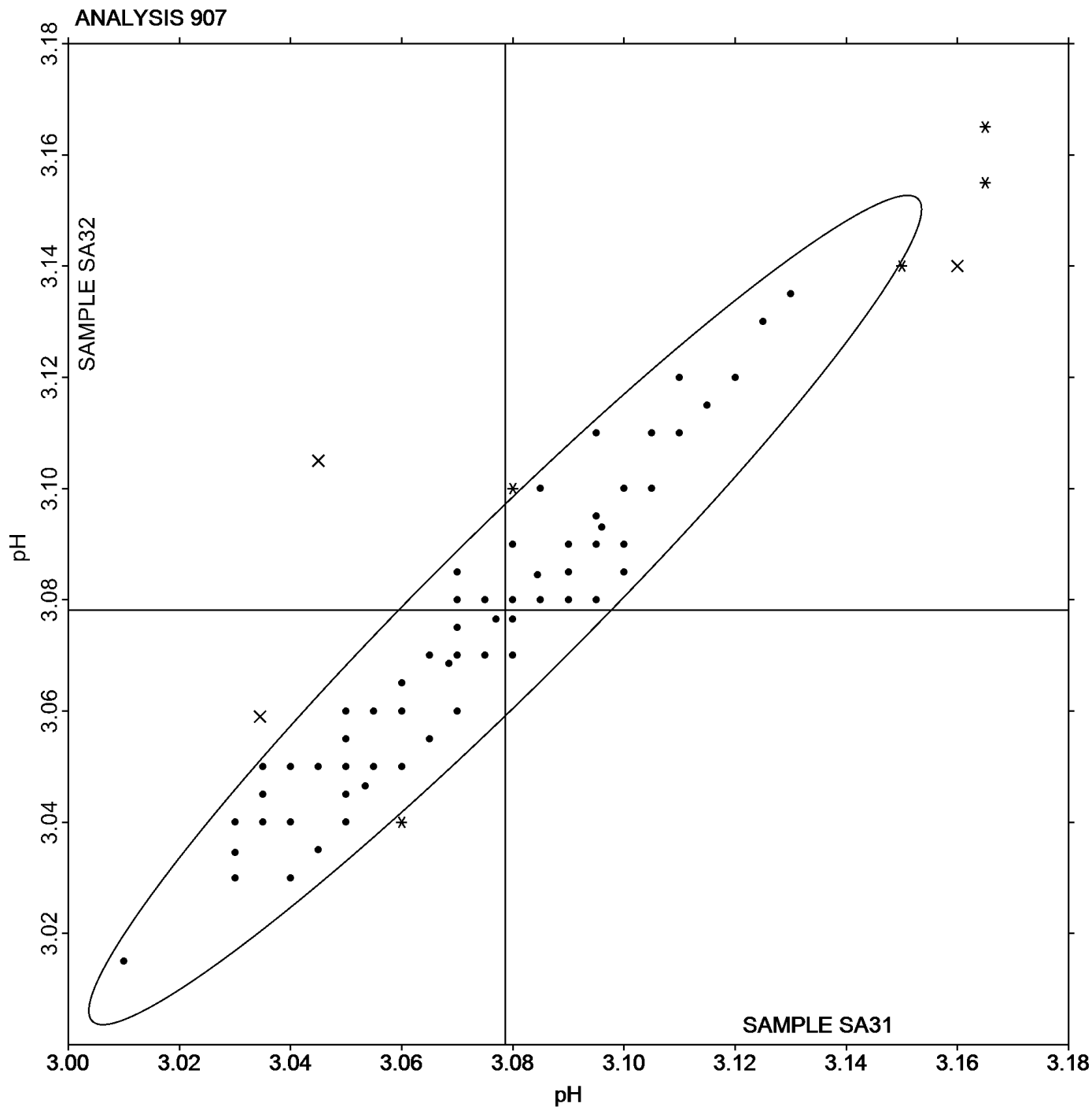
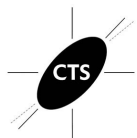
pH

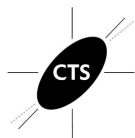
Grand Means		Summary Statistics	
	3.0786 pH		3.0782 pH
Std Dev Btwn Labs			0.0297 pH
	0.0299 pH		
Statistics based on 87 of 100 reporting participants			

Wines tested: SA31: White Blend; SA32: White Blend

Comments on Assigned Data Flags for Test #907

- 9ADBWC (X) - Data for both samples are high. Possible Systematic Error.
- YEXBYL (X) - Data for sample SA31 are low. Inconsistent within the determinations of sample SA31.
- C8TVV8 (X) - Data for both samples are high. Possible Systematic Error.
- 6TKARJ (X) - Inconsistent in testing between samples.
- DJQW8B (X) - Data for both samples are low. Possible Systematic Error.
- M9APZY (X) - Data for both samples are high. Possible Systematic Error. Inconsistent within the determinations of sample SA32.
- 98AH3D (X) - Inconsistent in testing between samples.
- LAB38Z (X) - Inconsistent in testing between samples.
- HQRY4 (X) - Data for sample SA32 are low.
- RRA94N (X) - Data for sample SA31 are low.
- 2GEHBD (X) - Data for sample SA31 are low.
- XAB2CH (X) - Data for both samples are high. Possible Systematic Error.
- LKRY6R (X) - Inconsistent in testing between samples.



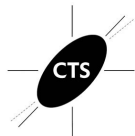


Analysis 908
Residual Sugar

WebCode	Data Flag	Sample SA31			Sample SA32		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2NELGC	*	7.600	1.098	1.52	7.800	1.325	1.93
3ATT7A	*	7.900	1.398	1.93	7.500	1.025	1.49
7TUX7F		5.600	-0.902	-1.25	5.700	-0.775	-1.13
9ADBWC		5.325	-1.177	-1.62	5.500	-0.975	-1.42
BMAE7V		6.810	0.308	0.43	6.870	0.395	0.58
BMRHL9		6.900	0.398	0.55	6.900	0.425	0.62
C8TVV8		6.150	-0.352	-0.49	6.100	-0.375	-0.55
DLA9L8	X	10.000	3.498	4.83	10.000	3.525	5.13
E4QJ4Y		6.200	-0.302	-0.42	6.100	-0.375	-0.55
FZPTJ6		6.845	0.343	0.47	6.835	0.360	0.52
GM9KV4		6.950	0.448	0.62	7.000	0.525	0.76
HFPGN2		6.700	0.198	0.27	6.700	0.225	0.33
HTUXAW		6.250	-0.252	-0.35	6.300	-0.175	-0.25
JED2UZ		6.950	0.448	0.62	6.970	0.495	0.72
KKCBAR	*	5.150	-1.352	-1.87	4.960	-1.515	-2.21
LAB38Z		6.170	-0.332	-0.46	6.190	-0.285	-0.42
LNQAZR		6.055	-0.447	-0.62	6.070	-0.405	-0.59
LZ4AWK		5.950	-0.552	-0.76	5.950	-0.525	-0.76
M9APZY	X	0.085	-6.417	-8.86	0.010	-6.465	-9.42
NPUFYX		7.650	1.148	1.59	7.480	1.005	1.46
PWQWNU		7.050	0.548	0.76	6.750	0.275	0.40
RRA94N		6.380	-0.122	-0.17	6.200	-0.275	-0.40
T9RQAU		7.565	1.063	1.47	7.425	0.950	1.38
VPQNKN		5.730	-0.772	-1.07	5.740	-0.735	-1.07
WHL4XJ		6.195	-0.307	-0.42	6.175	-0.300	-0.44
WMW4BA		6.460	-0.042	-0.06	6.490	0.015	0.02
XAB2CH		6.010	-0.492	-0.68	6.170	-0.305	-0.44

Grand Means		Summary Statistics	
	6.5018 g/L		6.4750 g/L
Std Dev Btwn Labs			0.6865 g/L
	0.7242 g/L		
Statistics based on 25 of 27 reporting participants			

Wines tested: SA31: White Blend; SA32: White Blend



Analysis 908
Residual Sugar

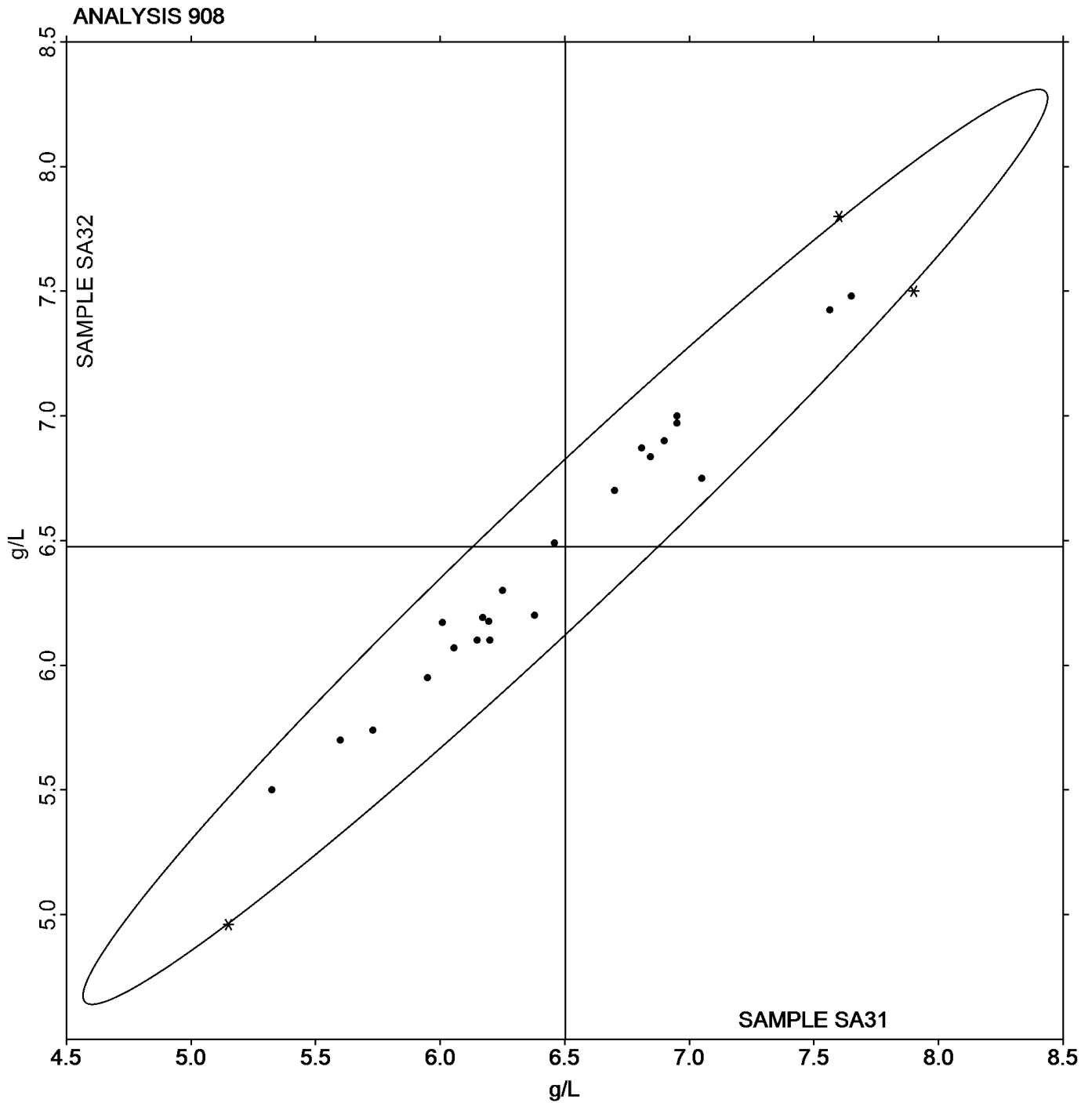
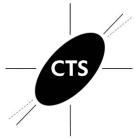
Comments on Assigned Data Flags for Test #908

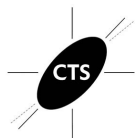
DLA9L8 (X) - Data for both samples are high. Possible Systematic Error.

M9APZY (X) - Extreme data.

Results by Methodology (as reported by laboratory)

Test Methodology	Sample SA31 <i>White Blend</i>			Sample SA32 <i>White Blend</i>			Labs Incl / Rpt
	Group Mean	Btwn Lab STD	Diff from GM	Group Mean	Btwn Lab STD	Diff from GM	
Please specify method used	6.195	0.000	-0.307	6.175	0.000	-0.300	1/1
Cu Reduction Method	6.969	0.621	0.467	6.864	0.515	0.389	6/7
Segmented Flow	6.845	0.000	0.343	6.835	0.000	0.360	1/1
FTIR	6.931	0.551	0.429	6.888	0.593	0.413	8/8
Other _____	5.804	0.381	-0.697	5.842	0.422	-0.633	9/10





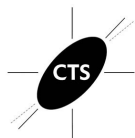
ASEV-CTS Wine Industry Interlaboratory Testing Program

Report #066
Fall 2020

Analysis 909

L-Malic Acid

WebCode	Data Flag	Sample SA31			Sample SA32		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
23H4BK		2.326	-0.065	-0.42	2.374	-0.018	-0.12
2NELGC		2.530	0.139	0.89	2.530	0.138	0.92
2ZURCE		2.520	0.129	0.82	2.480	0.088	0.59
39HRKB		2.510	0.119	0.76	2.535	0.143	0.95
3ATT7A		2.325	-0.066	-0.42	2.345	-0.047	-0.31
43RPZC	*	1.925	-0.466	-2.97	1.930	-0.462	-3.09
46XANC		2.074	-0.317	-2.02	2.091	-0.302	-2.02
4GC8TF	*	2.415	0.024	0.15	2.320	-0.072	-0.48
6MUWRF		2.568	0.177	1.12	2.563	0.170	1.14
6TKARJ		2.160	-0.231	-1.47	2.140	-0.252	-1.69
74AU37		2.555	0.164	1.05	2.525	0.133	0.89
7TUX7F	*	2.300	-0.091	-0.58	2.400	0.008	0.05
8H9UXF		2.465	0.074	0.47	2.450	0.058	0.39
93DW86		2.460	0.069	0.44	2.494	0.101	0.68
98AH3D		2.200	-0.191	-1.22	2.235	-0.157	-1.05
9ADBWC		2.320	-0.071	-0.45	2.315	-0.077	-0.52
9CJVKC		2.424	0.033	0.21	2.500	0.107	0.72
9W8H3E		2.285	-0.106	-0.67	2.280	-0.112	-0.75
A3NDJ9		2.185	-0.206	-1.31	2.170	-0.222	-1.48
A9B6Q3		2.340	-0.051	-0.32	2.350	-0.042	-0.28
AHL8C3		2.420	0.029	0.19	2.435	0.043	0.29
AZ4BR4		2.338	-0.053	-0.34	2.362	-0.030	-0.20
BMAE7V		2.520	0.129	0.82	2.490	0.098	0.65
BMRHL9		2.280	-0.111	-0.71	2.280	-0.112	-0.75
C4VCT9		2.469	0.078	0.49	2.467	0.074	0.50
C8TVV8		2.140	-0.251	-1.60	2.140	-0.252	-1.69
CN3K98		2.425	0.034	0.22	2.430	0.038	0.25
CPWBC2		2.495	0.104	0.66	2.486	0.094	0.63
D3UYK7		2.470	0.079	0.50	2.455	0.063	0.42
DJQW8B		2.720	0.329	2.10	2.670	0.278	1.86
DYTVRY	*	2.769	0.378	2.41	2.788	0.396	2.65
E4QJ4Y		2.190	-0.201	-1.28	2.255	-0.137	-0.92
EATTAR		2.480	0.089	0.57	2.410	0.018	0.12
GM9KV4		2.355	-0.036	-0.23	2.430	0.038	0.25
H4XVH7		2.441	0.050	0.32	2.433	0.041	0.27



ASEV-CTS Wine Industry Interlaboratory Testing Program

Report #066
Fall 2020

Analysis 909

L-Malic Acid

WebCode	Data Flag	Sample SA31			Sample SA32		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
HFPGN2		2.283	-0.108	-0.69	2.267	-0.125	-0.84
HKK9WY		2.250	-0.141	-0.90	2.250	-0.142	-0.95
HPDDP3		2.590	0.199	1.27	2.530	0.138	0.92
HQAX9V		2.520	0.129	0.82	2.570	0.178	1.19
HQRY4	X	2.820	0.429	2.73	2.618	0.226	1.51
HTUXAW		2.500	0.109	0.69	2.495	0.103	0.69
HUMTW7		2.168	-0.223	-1.42	2.223	-0.169	-1.13
J8QGKT		2.300	-0.091	-0.58	2.350	-0.042	-0.28
JED2UZ		2.335	-0.056	-0.36	2.335	-0.057	-0.38
JV3CG3		2.250	-0.141	-0.90	2.290	-0.102	-0.68
KHL4T2		2.539	0.148	0.94	2.551	0.158	1.06
KKCBAR		2.210	-0.181	-1.15	2.240	-0.152	-1.02
KLPPYL		2.170	-0.221	-1.41	2.170	-0.222	-1.48
L9VNZQ		2.567	0.176	1.12	2.560	0.168	1.12
LAB38Z		2.400	0.009	0.06	2.415	0.023	0.15
LNQAZR		2.220	-0.171	-1.09	2.215	-0.177	-1.18
LZ4AWK		2.485	0.094	0.60	2.490	0.098	0.65
M9APZY		2.615	0.224	1.43	2.600	0.208	1.39
MBGWJQ		2.120	-0.271	-1.73	2.185	-0.207	-1.38
MUAVPP		2.345	-0.046	-0.29	2.330	-0.062	-0.42
MWFFCP		2.450	0.059	0.38	2.445	0.053	0.35
N4X4QR		2.450	0.059	0.38	2.460	0.068	0.45
N8UR8Y		2.335	-0.056	-0.36	2.350	-0.042	-0.28
NCAZVX		2.440	0.049	0.31	2.430	0.038	0.25
NQA29Y		2.545	0.154	0.98	2.545	0.153	1.02
PGEH8W		2.395	0.004	0.03	2.390	-0.002	-0.01
PVJEQX		2.489	0.098	0.62	2.478	0.085	0.57
PWQWNU	*	2.500	0.109	0.69	2.400	0.008	0.05
PZUR9W	*	2.035	-0.356	-2.27	2.115	-0.277	-1.85
QE6THR		2.501	0.110	0.70	2.512	0.119	0.80
QNQWKL		2.244	-0.147	-0.94	2.204	-0.188	-1.26
RRA94N	X	2.465	0.074	0.47	2.640	0.248	1.66
TEDT9J		2.540	0.149	0.95	2.490	0.098	0.65
THHCER		2.365	-0.026	-0.17	2.329	-0.064	-0.43
TXT3AK	X	1.830	-0.561	-3.57	1.825	-0.567	-3.79



Analysis 909
L-Malic Acid

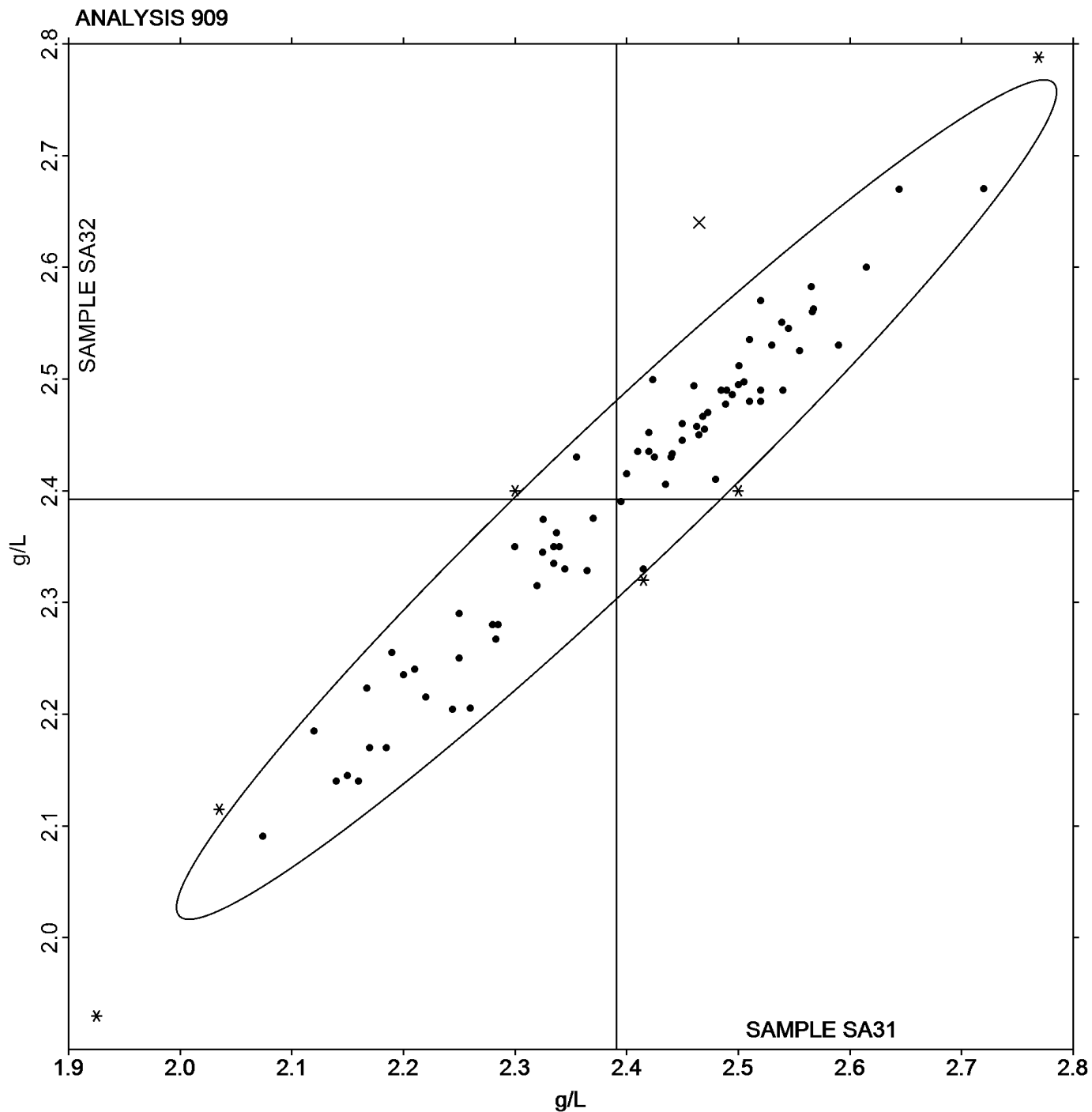
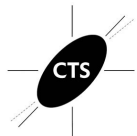
WebCode	Data Flag	Sample SA31			Sample SA32		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
UFQD2T		2.473	0.082	0.52	2.470	0.078	0.52
UXQNKQ		2.415	0.024	0.15	2.330	-0.062	-0.42
V3Z23P		2.463	0.072	0.46	2.458	0.065	0.44
VPQKN		2.645	0.254	1.62	2.670	0.277	1.85
W866NG		2.420	0.029	0.19	2.452	0.060	0.40
WATTMN		2.505	0.114	0.73	2.498	0.105	0.70
WFFLYM		2.566	0.175	1.11	2.583	0.190	1.27
WHL4XJ		2.490	0.099	0.63	2.490	0.098	0.65
WMW4BA	X	3.400	1.009	6.43	3.400	1.008	6.74
X3AR6P		2.435	0.044	0.28	2.406	0.013	0.09
XUFMCN		2.410	0.019	0.12	2.435	0.043	0.29
Y9AN4F	X	2.855	0.464	2.96	2.880	0.488	3.26
YA3JQN		2.150	-0.241	-1.53	2.145	-0.247	-1.65
YEXBYL		2.510	0.119	0.76	2.480	0.088	0.59
YMAE2D		2.370	-0.021	-0.13	2.375	-0.017	-0.11
ZCAYZF		2.260	-0.131	-0.83	2.205	-0.187	-1.25

Grand Means		Summary Statistics	
	2.3909 g/L		2.3921 g/L
Stnd Dev Btwn Labs	0.1570 g/L		0.1496 g/L
Statistics based on 81 of 86 reporting participants			

Wines tested: SA31: White Blend; SA32: White Blend

Comments on Assigned Data Flags for Test #909

- HQRYY4 (X) - Inconsistent in testing between samples.
- RRA94N (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample SA32.
- Y9AN4F (X) - Data for both samples are high. Possible Systematic Error.
- TXT3AK (X) - Data for both samples are low. Possible Systematic Error.
- WMW4BA (X) - Data for both samples are high. Possible Systematic Error.





Analysis 910
Glucose + Fructose

WebCode	Data Flag	Sample SA31			Sample SA32		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
23H4BK	*	5.355	-0.749	-1.91	5.200	-0.912	-2.38
2NELGC		6.600	0.496	1.27	6.700	0.588	1.54
2YHRFK		6.900	0.796	2.04	6.850	0.738	1.93
2ZURCE		5.960	-0.144	-0.37	5.770	-0.342	-0.89
39HRKB		6.150	0.046	0.12	6.200	0.088	0.23
3ATT7A		5.730	-0.374	-0.96	5.590	-0.522	-1.36
3E7PUK		5.850	-0.254	-0.65	5.850	-0.262	-0.69
43RPZC	*	4.950	-1.154	-2.95	5.000	-1.112	-2.91
46XANC		5.555	-0.549	-1.40	5.535	-0.577	-1.51
4GC8TF		5.465	-0.639	-1.63	5.570	-0.542	-1.42
6MUWRF		6.190	0.086	0.22	6.305	0.193	0.50
6TKARJ		6.400	0.296	0.76	6.400	0.288	0.75
74AU37		6.430	0.326	0.83	6.470	0.358	0.94
7TUX7F		5.600	-0.504	-1.29	5.800	-0.312	-0.82
88QD79		5.400	-0.704	-1.80	5.500	-0.612	-1.60
8H9UXF		6.215	0.111	0.28	6.240	0.128	0.33
93DW86		6.700	0.596	1.52	6.650	0.538	1.41
98AH3D		5.950	-0.154	-0.39	6.050	-0.062	-0.16
9CJVKC		6.200	0.096	0.25	6.050	-0.062	-0.16
9W8H3E		6.200	0.096	0.25	6.100	-0.012	-0.03
A3NDJ9		5.350	-0.754	-1.93	5.400	-0.712	-1.86
A9B6Q3		6.100	-0.004	-0.01	6.150	0.038	0.10
AHL8C3		6.100	-0.004	-0.01	6.200	0.088	0.23
AZ4BR4		5.615	-0.489	-1.25	5.650	-0.462	-1.21
BMAE7V		6.400	0.296	0.76	6.595	0.483	1.26
BMRHL9		5.700	-0.404	-1.03	5.900	-0.212	-0.55
C4VCT9		6.400	0.296	0.76	6.400	0.288	0.75
C8TVV8		6.150	0.046	0.12	6.100	-0.012	-0.03
CN3K98		6.095	-0.009	-0.02	6.285	0.173	0.45
CPWBC2		6.210	0.106	0.27	6.255	0.143	0.37
D3UYK7		6.450	0.346	0.88	6.450	0.338	0.88
DJQW8B		6.300	0.196	0.50	6.300	0.188	0.49
DYTVRY		6.020	-0.084	-0.21	5.955	-0.157	-0.41
E4QJ4Y		5.695	-0.409	-1.04	5.780	-0.332	-0.87
EATTAR		6.300	0.196	0.50	6.100	-0.012	-0.03



Analysis 910
Glucose + Fructose

WebCode	Data Flag	Sample SA31			Sample SA32		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
GM9KV4		6.245	0.141	0.36	6.220	0.108	0.28
H4XVH7		6.450	0.346	0.88	6.400	0.288	0.75
HKK9WY		6.075	-0.029	-0.07	6.103	-0.010	-0.03
HPDDP3		6.205	0.101	0.26	6.025	-0.087	-0.23
HQAX9V		6.585	0.481	1.23	6.595	0.483	1.26
HQRY4	X	7.905	1.801	4.60	6.613	0.501	1.31
HTUXAW		6.250	0.146	0.37	6.300	0.188	0.49
HUMTW7		5.295	-0.809	-2.07	5.335	-0.777	-2.03
J8QGKT	X	4.500	-1.604	-4.10	4.600	-1.512	-3.95
JED2UZ		5.990	-0.114	-0.29	6.210	0.098	0.26
JV3CG3		6.100	-0.004	-0.01	6.000	-0.112	-0.29
KHL4T2		6.400	0.296	0.76	6.500	0.388	1.01
KKCBAR	X	5.150	-0.954	-2.44	4.960	-1.152	-3.01
KLPPYL		5.440	-0.664	-1.70	5.460	-0.652	-1.70
L9VNZQ		6.600	0.496	1.27	6.500	0.388	1.01
LAB38Z		6.170	0.066	0.17	6.190	0.078	0.20
LNQAZR		6.245	0.141	0.36	6.430	0.318	0.83
M9APZY		6.391	0.287	0.73	6.405	0.292	0.76
MBGWJQ		5.925	-0.179	-0.46	6.005	-0.107	-0.28
MUAVPP		5.950	-0.154	-0.39	5.950	-0.162	-0.42
MWFFCP		6.245	0.141	0.36	6.210	0.098	0.26
N4X4QR		6.400	0.296	0.76	6.400	0.288	0.75
N8UR8Y		5.915	-0.189	-0.48	5.985	-0.127	-0.33
NCAZVX		6.400	0.296	0.76	6.270	0.158	0.41
NPUFYX		6.220	0.116	0.30	6.040	-0.072	-0.19
NQA29Y		6.590	0.486	1.24	6.565	0.453	1.18
P2JXNM		6.550	0.446	1.14	6.500	0.388	1.01
PGEH8W		6.200	0.096	0.25	6.235	0.123	0.32
PVJEQX		6.185	0.081	0.21	6.175	0.063	0.16
PWQWNU		6.050	-0.054	-0.14	6.200	0.088	0.23
PZUR9W		5.655	-0.449	-1.15	5.575	-0.537	-1.40
QE6THR		6.650	0.546	1.40	6.700	0.588	1.54
QNQWKL		6.000	-0.104	-0.27	6.200	0.088	0.23
RRA94N	X	7.350	1.246	3.19	7.750	1.638	4.28
TEDT9J		6.040	-0.064	-0.16	6.025	-0.087	-0.23



Analysis 910
Glucose + Fructose

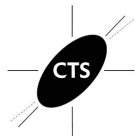
WebCode	Data Flag	Sample SA31			Sample SA32		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
THHCER		6.150	0.046	0.12	6.150	0.038	0.10
TXT3AK		5.835	-0.269	-0.69	5.820	-0.292	-0.76
UFQD2T		6.500	0.396	1.01	6.500	0.388	1.01
UXQNKQ		5.990	-0.114	-0.29	6.085	-0.027	-0.07
V3Z23P		6.250	0.146	0.37	6.200	0.088	0.23
VPAC3J		6.050	-0.054	-0.14	6.100	-0.012	-0.03
VPQNKN		6.425	0.321	0.82	6.260	0.148	0.39
VV3CKK	*	7.185	1.081	2.76	7.135	1.023	2.67
W866NG		6.195	0.091	0.23	6.185	0.073	0.19
WATTMN		6.450	0.346	0.88	6.450	0.338	0.88
WFFLYM		6.145	0.041	0.11	5.960	-0.152	-0.40
WMW4BA	X	4.600	-1.504	-3.84	4.600	-1.512	-3.95
X3AR6P		5.460	-0.644	-1.65	5.345	-0.767	-2.01
XUFMCN		6.110	0.006	0.02	6.125	0.013	0.03
Y9AN4F		6.100	-0.004	-0.01	6.100	-0.012	-0.03
YA3JQN		6.350	0.246	0.63	6.400	0.288	0.75
YEXBYL		6.320	0.216	0.55	6.150	0.038	0.10
YMAE2D		5.750	-0.354	-0.90	5.850	-0.262	-0.69
ZCAYZF		5.350	-0.754	-1.93	5.550	-0.562	-1.47

Grand Means		Summary Statistics	
	6.1038 g/L		6.1122 g/L
Stnd Dev Btwn Labs			
	0.3913 g/L		0.3826 g/L
Statistics based on 84 of 89 reporting participants			

Wines tested: SA31: White Blend; SA32: White Blend

Comments on Assigned Data Flags for Test #910

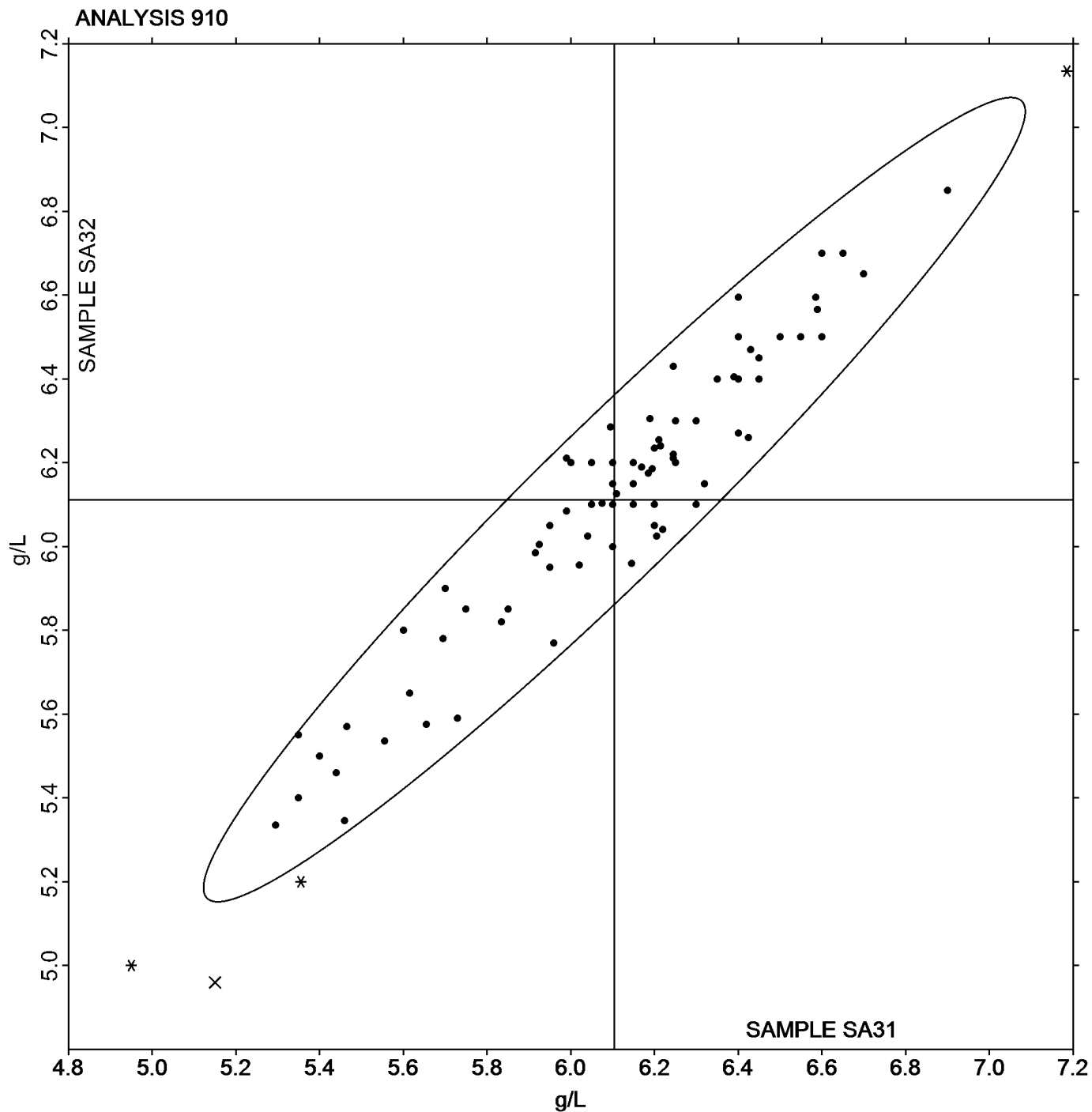
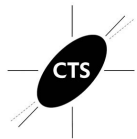
- J8QGKT (X) - Data for both samples are low. Possible Systematic Error. Inconsistent within the determinations of both samples.
- KKCBAR (X) - Data for sample SA32 are low.
- HQRYY4 (X) - Data for sample SA31 are high.
- RRA94N (X) - Data for both samples are high. Possible Systematic Error. Inconsistent within the determinations of both samples.
- WMW4BA (X) - Data for both samples are low. Possible Systematic Error.

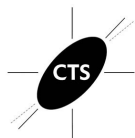


Analysis 910
Glucose + Fructose

Results by Methodology (as reported by laboratory)

Test Methodology	Sample SA31 <i>White Blend</i>			Sample SA32 <i>White Blend</i>			Labs Incl / Rpt
	Group Mean	Btwn Lab STD	Diff from GM	Group Mean	Btwn Lab STD	Diff from GM	
HPLC	6.400	0.000	0.296	6.595	0.000	0.483	1/1
Enzymatic/Spectrophotometric	6.099	0.406	-0.005	6.103	0.394	-0.009	74/77
FTIR	6.081	0.291	-0.022	6.099	0.286	-0.014	7/9
Other _____	6.220	0.241	0.116	6.252	0.215	0.140	2/2





Analysis 911
Copper Content

WebCode	Data Flag	Sample SA31			Sample SA32		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2NELGC		0.1220	-0.0054	-0.16	0.1220	0.0014	0.04
2ZURCE		0.1060	-0.0214	-0.62	0.0990	-0.0216	-0.69
3ATT7A		0.1700	0.0426	1.24	0.1600	0.0394	1.26
93DW86		0.1450	0.0176	0.51	0.1400	0.0194	0.62
AHL8C3		0.1100	-0.0174	-0.51	0.1000	-0.0206	-0.66
BMRHL9		0.1200	-0.0074	-0.21	0.1000	-0.0206	-0.66
C4VCT9	*	0.2285	0.1011	2.94	0.1985	0.0779	2.50
CPWBC2	*	0.0900	-0.0374	-1.09	0.0600	-0.0606	-1.95
D3UYK7		0.1185	-0.0089	-0.26	0.1210	0.0004	0.01
DYTVRY		0.1050	-0.0224	-0.65	0.1100	-0.0106	-0.34
FZPTJ6		0.1074	-0.0200	-0.58	0.1043	-0.0164	-0.53
GM9KV4		0.0950	-0.0324	-0.94	0.0950	-0.0256	-0.82
JED2UZ		0.1190	-0.0084	-0.24	0.1130	-0.0076	-0.24
L9VNZQ		0.1200	-0.0074	-0.21	0.1200	-0.0006	-0.02
MUAVPP		0.1216	-0.0058	-0.17	0.1248	0.0042	0.13
NPUFYX		0.1320	0.0046	0.13	0.1160	-0.0046	-0.15
NQA29Y		0.1300	0.0026	0.08	0.1300	0.0094	0.30
P2JXNM		0.1950	0.0676	1.97	0.1800	0.0594	1.91
PWQWNU		0.1050	-0.0224	-0.65	0.1000	-0.0206	-0.66
QNQWKL		0.0900	-0.0374	-1.09	0.0950	-0.0256	-0.82
YA3JQN	X	0.6500	0.5226	15.22	0.8000	0.6794	21.82
YEXBYL		0.1450	0.0176	0.51	0.1445	0.0239	0.77

Grand Means		Summary Statistics	
	0.12738 mg/L		0.12062 mg/L
Std Dev Btwn Labs			0.03113 mg/L
	0.03434 mg/L		
Statistics based on 21 of 22 reporting participants			

Wines tested: SA31: White Blend; SA32: White Blend

Comments on Assigned Data Flags for Test #911

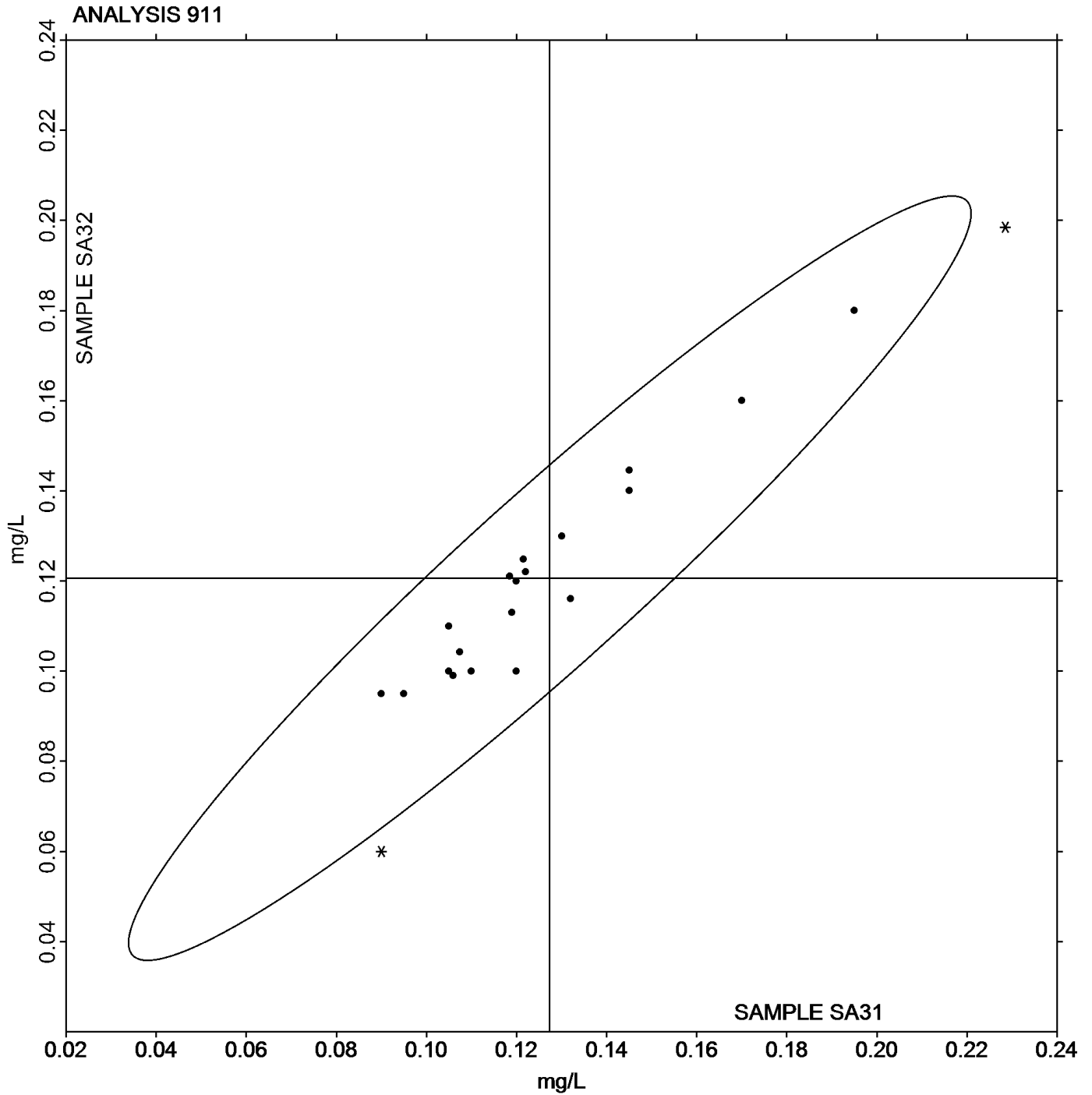
YA3JQN (X) - Data for both samples are high. Inconsistent within the determinations of both samples.

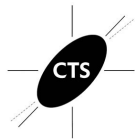


Analysis 911
Copper Content

Results by Methodology (as reported by laboratory)

Test Methodology	Sample SA31 <i>White Blend</i>			Sample SA32 <i>White Blend</i>			Labs Incl / Rpt
	Group Mean	Btwn Lab STD	Diff from GM	Group Mean	Btwn Lab STD	Diff from GM	
Please specify method used							0/1
Atomic Absorption Spectroscopy	0.140	0.042	0.0128	0.127	0.041	0.0062	10/10
ICP	0.112	0.011	-0.0153	0.112	0.011	-0.0084	9/9
FTIR	0.170	0.000	0.0426	0.160	0.000	0.0394	1/1
Other _____	0.095	0.000	-0.0324	0.095	0.000	-0.0256	1/1





Analysis 912
Potassium (K) Content

WebCode	Data Flag	Sample SA31			Sample SA32		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
23H4BK		486.0	-12.6	-0.15	478.5	-20.5	-0.26
2NELGC		493.0	-5.6	-0.07	487.0	-12.0	-0.15
6MUWRF		610.5	111.9	1.34	613.5	114.5	1.43
BMAE7V	*	576.5	77.9	0.93	508.0	9.0	0.11
BMRHL9		512.0	13.4	0.16	521.0	22.0	0.28
CPWBC2		455.0	-43.6	-0.52	457.5	-41.5	-0.52
D3UYK7		498.0	-0.6	-0.01	506.0	7.0	0.09
DYTVRY		410.5	-88.1	-1.06	420.5	-78.5	-0.98
FZPTJ6		404.0	-94.6	-1.13	408.5	-90.5	-1.13
GM9KV4		382.0	-116.6	-1.40	379.0	-120.0	-1.50
JED2UZ		645.0	146.4	1.75	640.0	141.0	1.77
L9VNZQ		468.0	-30.6	-0.37	469.5	-29.5	-0.37
MUAVPP		666.0	167.4	2.00	662.9	163.9	2.05
NQA29Y		438.2	-60.4	-0.72	446.9	-52.1	-0.65
PWQWNU		530.0	31.4	0.38	558.5	59.5	0.75
QNQWKL		431.0	-67.6	-0.81	443.5	-55.5	-0.70
VPQKN		471.0	-27.6	-0.33	482.5	-16.5	-0.21

Grand Means		Summary Statistics	
	498.63 mg/L		499.02 mg/L
Std Dev Btwn Labs			79.83 mg/L
	83.49 mg/L		
Statistics based on 17 of 17 reporting participants			

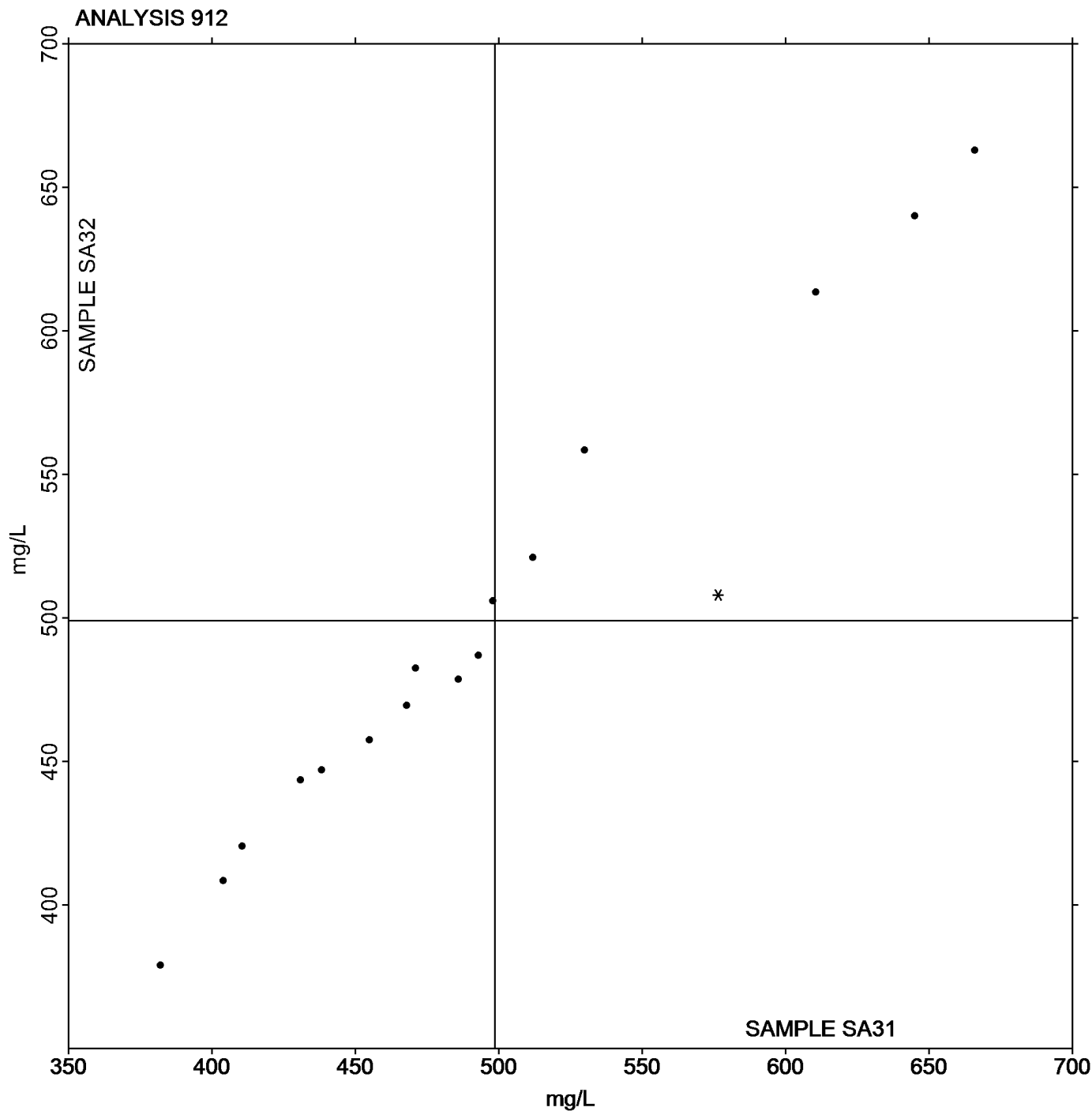
Wines tested: SA31: White Blend; SA32: White Blend

Results by Methodology (as reported by laboratory)

Test Methodology	Sample SA31 <i>White Blend</i>			Sample SA32 <i>White Blend</i>			Labs Incl / Rpt
	Group Mean	Btwn Lab STD	Diff from GM	Group Mean	Btwn Lab STD	Diff from GM	
Atomic Absorption Spectroscopy	459.727	24.258	-38.9	460.972	16.076	-38.0	3/3
ICP	487.563	84.754	-11.1	494.546	83.436	-4.5	8/8
FTIR	645.000	0.000	146.4	640.000	0.000	141.0	1/1
Other _____	476.500	97.367	-22.1	456.500	68.317	-42.5	3/3
Colorimetric Analysis	561.250	69.650	62.6	567.250	65.407	68.2	2/2



Analysis 912
Potassium (K) Content



If fewer than 20 laboratories are included in an analysis, a control ellipse will not be drawn on the two-sample plot.

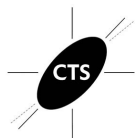


ASEV-CTS Wine Industry Interlaboratory Testing Program

Report #066
Fall 2020

Analysis 915
A420nm (1cm path)

WebCode	Data Flag	Sample SA31			Sample SA32		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
23H4BK		0.0670	0.0021	0.42	0.0660	0.0016	0.31
2GEHBD		0.0630	-0.0019	-0.37	0.0625	-0.0019	-0.38
2NELGC		0.0640	-0.0009	-0.17	0.0640	-0.0004	-0.08
2ZURCE	X	0.0649	0.0000	0.01	0.0121	-0.0523	-10.41
3ATT7A		0.0615	-0.0034	-0.66	0.0610	-0.0034	-0.68
43RPZC		0.0690	0.0041	0.82	0.0690	0.0046	0.91
46XANC		0.0620	-0.0029	-0.57	0.0590	-0.0054	-1.08
6MUWRF	X	0.1030	0.0381	7.55	0.1030	0.0386	7.68
88QD79		0.0590	-0.0059	-1.16	0.0600	-0.0044	-0.88
98AH3D		0.0700	0.0051	1.02	0.0705	0.0061	1.21
9ADBWC		0.0575	-0.0074	-1.46	0.0585	-0.0059	-1.18
9W8H3E	*	0.0800	0.0151	3.00	0.0800	0.0156	3.10
A3NDJ9		0.0680	0.0031	0.62	0.0690	0.0046	0.91
A9B6Q3	X	0.0400	-0.0249	-4.92	0.0400	-0.0244	-4.86
AHL8C3		0.0700	0.0051	1.02	0.0700	0.0056	1.11
BMRHL9		0.0678	0.0029	0.58	0.0684	0.0040	0.79
C4VCT9		0.0615	-0.0033	-0.66	0.0631	-0.0013	-0.26
C8TVV8	*	0.0700	0.0051	1.02	0.0650	0.0006	0.11
CPWBC2		0.0670	0.0021	0.42	0.0650	0.0006	0.11
D3UYK7		0.0650	0.0001	0.03	0.0625	-0.0019	-0.38
E4QJ4Y		0.0660	0.0011	0.23	0.0640	-0.0004	-0.08
GM9KV4		0.0670	0.0021	0.42	0.0660	0.0016	0.31
HFPGN2		0.0600	-0.0049	-0.96	0.0610	-0.0034	-0.68
HKK9WY		0.0715	0.0066	1.31	0.0720	0.0076	1.51
HPDDP3		0.0645	-0.0004	-0.07	0.0655	0.0011	0.21
HQRY4		0.0660	0.0011	0.23	0.0650	0.0006	0.11
J8QGKT		0.0650	0.0001	0.03	0.0625	-0.0019	-0.38
JED2UZ		0.0633	-0.0016	-0.32	0.0624	-0.0021	-0.41
JV3CG3		0.0650	0.0001	0.03	0.0650	0.0006	0.11
L9VNZQ		0.0550	-0.0099	-1.95	0.0525	-0.0119	-2.37
LKRY6R		0.0645	-0.0004	-0.07	0.0645	0.0001	0.01
MBGWJQ		0.0685	0.0036	0.72	0.0680	0.0036	0.71
MUAVPP		0.0720	0.0071	1.41	0.0705	0.0061	1.21
N4X4QR		0.0620	-0.0029	-0.57	0.0630	-0.0014	-0.28
NPUFYX	X	0.0760	0.0111	2.20	0.0680	0.0036	0.71



Analysis 915
A420nm (1cm path)

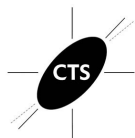
WebCode	Data Flag	Sample SA31			Sample SA32		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
NQA29Y		0.0655	0.0006	0.13	0.0660	0.0016	0.31
P2JXNM		0.0662	0.0013	0.26	0.0671	0.0027	0.54
PVJEQX		0.0660	0.0011	0.23	0.0645	0.0001	0.01
RRA94N	X	0.0800	0.0151	3.00	0.0700	0.0056	1.11
THHCER	*	0.0585	-0.0064	-1.26	0.0625	-0.0019	-0.38
TXT3AK	*	0.0500	-0.0149	-2.94	0.0500	-0.0144	-2.87
UXQNKQ		0.0645	-0.0004	-0.07	0.0630	-0.0014	-0.28
VPQNKN	X	0.1075	0.0426	8.44	0.1065	0.0421	8.37
W866NG		0.0635	-0.0014	-0.27	0.0635	-0.0009	-0.18
XAB2CH		0.0625	-0.0024	-0.47	0.0630	-0.0014	-0.28
YA3JQN	X	0.0735	0.0086	1.71	0.0645	0.0001	0.01
YMAE2D		0.0650	0.0001	0.03	0.0620	-0.0024	-0.48
ZCAYZF	X	0.0350	-0.0299	-5.91	0.0330	-0.0314	-6.25
ZFMYUL	X	0.0630	-0.0019	-0.37	0.0530	-0.0114	-2.27

Grand Means		Summary Statistics	
0.06486	Absorbance Units	0.06442	Absorbance Units
Std Dev Btwn Labs			
0.00505	Absorbance Units	0.00502	Absorbance Units
Statistics based on 40 of 49 reporting participants			

Wines tested: SA31: White Blend; SA32: White Blend

Comments on Assigned Data Flags for Test #915

- A9B6Q3 (X) - Data for both samples are low. Possible Systematic Error.
- 6MUWRF (X) - Data for both samples are high. Possible Systematic Error. Inconsistent within the determinations of both samples.
- NPUFYX (X) - Inconsistent in testing between samples.
- VPQNKN (X) - Data for both samples are high.
- YA3JQN (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample SA31.
- ZFMYUL (X) - Inconsistent in testing between samples.
- RRA94N (X) - Data for sample SA31 are high.
- ZCAYZF (X) - Data for both samples are low. Possible Systematic Error.
- 2ZURCE (X) - Data for sample SA32 are low.

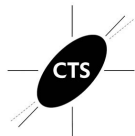


ASEV-CTS Wine Industry Interlaboratory Testing Program

Report #066
Fall 2020

Analysis 916
A520nm (1cm path)

WebCode	Data Flag	Sample SA31			Sample SA32		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
23H4BK		0.0140	0.0014	0.54	0.0150	0.0027	1.17
2GEHBD		0.0100	-0.0026	-1.02	0.0100	-0.0023	-1.01
2NELGC		0.0120	-0.0006	-0.24	0.0120	-0.0003	-0.14
2ZURCE	X	0.0697	0.0571	22.21	0.0127	0.0004	0.17
3ATT7A		0.0110	-0.0016	-0.63	0.0100	-0.0023	-1.01
43RPZC		0.0130	0.0004	0.15	0.0130	0.0007	0.30
46XANC		0.0110	-0.0016	-0.63	0.0095	-0.0028	-1.22
6MUWRF	X	0.0505	0.0379	14.74	0.0505	0.0382	16.59
88QD79		0.0100	-0.0026	-1.02	0.0100	-0.0023	-1.01
98AH3D	X	0.0220	0.0094	3.65	0.0220	0.0097	4.21
9ADBWC		0.0110	-0.0016	-0.63	0.0110	-0.0013	-0.57
9W8H3E	X	0.0300	0.0174	6.76	0.0300	0.0177	7.68
A3NDJ9		0.0130	0.0004	0.15	0.0140	0.0017	0.73
AHL8C3	X	0.0200	0.0074	2.87	0.0100	-0.0023	-1.01
BMRHL9		0.0142	0.0016	0.61	0.0146	0.0023	0.99
C4VCT9		0.0085	-0.0041	-1.60	0.0101	-0.0023	-0.98
C8TVV8	*	0.0200	0.0074	2.87	0.0150	0.0027	1.17
CPWBC2		0.0150	0.0024	0.93	0.0140	0.0017	0.73
D3UYK7		0.0155	0.0029	1.12	0.0120	-0.0003	-0.14
E4QJ4Y		0.0130	0.0004	0.15	0.0120	-0.0003	-0.14
GM9KV4		0.0140	0.0014	0.54	0.0130	0.0007	0.30
HFPGN2		0.0117	-0.0009	-0.36	0.0115	-0.0008	-0.35
HKK9WY	X	0.1150	0.1024	39.83	0.1250	0.1127	48.95
HPDDP3		0.0130	0.0004	0.15	0.0145	0.0022	0.95
HQRYY4		0.0120	-0.0006	-0.24	0.0120	-0.0003	-0.14
J8QGKT		0.0105	-0.0021	-0.83	0.0100	-0.0023	-1.01
JED2UZ		0.0127	0.0000	0.01	0.0111	-0.0013	-0.55
JV3CG3		0.0120	-0.0006	-0.24	0.0120	-0.0003	-0.14
L9VNZQ	*	0.0065	-0.0061	-2.38	0.0055	-0.0068	-2.96
MBGWJQ		0.0155	0.0029	1.12	0.0150	0.0027	1.17
MUAVPP		0.0160	0.0034	1.31	0.0155	0.0032	1.38
N4X4QR	*	0.0120	-0.0006	-0.24	0.0170	0.0047	2.04
NPUFYX	*	0.0190	0.0064	2.48	0.0150	0.0027	1.17
NQA29Y		0.0130	0.0004	0.15	0.0120	-0.0003	-0.14
P2JXNM		0.0110	-0.0017	-0.64	0.0119	-0.0004	-0.17



Analysis 916
A520nm (1cm path)

WebCode	Data Flag	Sample SA31			Sample SA32		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
PVJEQX		0.0125	-0.0001	-0.05	0.0105	-0.0018	-0.79
RRA94N	X	0.0705	0.0579	22.52	0.0600	0.0477	20.72
THHCER	*	0.0100	-0.0026	-1.02	0.0150	0.0027	1.17
UXQNKQ		0.0120	-0.0006	-0.24	0.0110	-0.0013	-0.57
VPQNKN	X	0.0475	0.0349	13.57	0.0510	0.0387	16.81
W866NG		0.0120	-0.0006	-0.24	0.0120	-0.0003	-0.14
XAB2CH		0.0110	-0.0016	-0.63	0.0110	-0.0013	-0.57
YA3JQN		0.0150	0.0024	0.93	0.0155	0.0032	1.38
YMAE2D		0.0125	-0.0001	-0.05	0.0105	-0.0018	-0.79
ZFMYUL		0.0120	-0.0006	-0.24	0.0120	-0.0003	-0.14

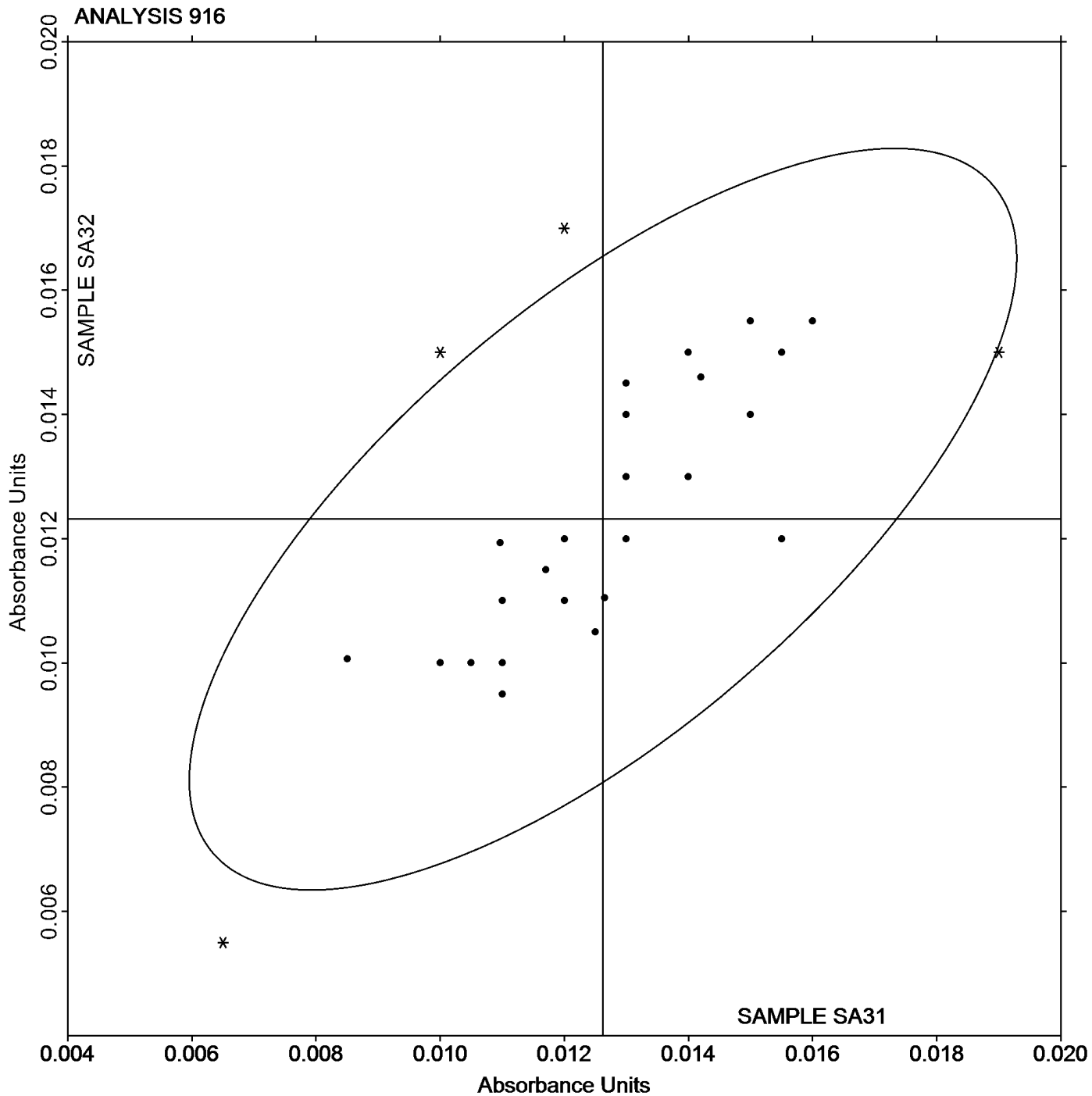
Grand Means		Summary Statistics	
0.01262	Absorbance Units	0.01231	Absorbance Units
0.00257	Absorbance Units	0.00230	Absorbance Units

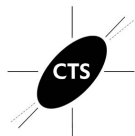
Statistics based on 37 of 45 reporting participants

Wines tested: SA31: White Blend; SA32: White Blend

Comments on Assigned Data Flags for Test #916

- AHL8C3 (X) - Data for sample SA31 are high.
- 6MUWRF (X) - Data for both samples are high. Inconsistent within the determinations of both samples.
- VPQNKN (X) - Data for both samples are high.
- 9W8H3E (X) - Data for both samples are high.
- 98AH3D (X) - Data for both samples are high.
- RRA94N (X) - Data for both samples are high.
- HKK9WY (X) - Data for both samples are high. Inconsistent within the determinations of both samples.
- 2ZURCE (X) - Data for sample SA31 are high.





ASEV-CTS Wine Industry Interlaboratory Testing Program
Research Property 950
Research Property - Citric Acid

Report #066
Fall 2020

WebCode	Data Flag	Sample SA31			Sample SA32		
		Lab Mean	Diff from Target Value	% Diff from Target Value	Lab Mean	Diff from Target Value	% Diff from Target Value
2ZURCE		0.2850	-0.0262	-0.40	0.2910	-0.0199	-0.31
3ATT7A		0.4500	0.1388	2.13	0.4500	0.1391	2.15
BMRHL9		0.2700	-0.0412	-0.63	0.2800	-0.0309	-0.48
CPWBC2		0.4250	0.1138	1.75	0.4250	0.1141	1.76
D3UYK7		0.2800	-0.0312	-0.48	0.2900	-0.0209	-0.32
DYTVRY		0.3100	-0.0012	-0.02	0.3000	-0.0109	-0.17
E4QJ4Y		0.2545	-0.0567	-0.87	0.2540	-0.0569	-0.88
GM9KV4		0.2765	-0.0347	-0.53	0.2655	-0.0454	-0.70
JED2UZ		0.3550	0.0438	0.67	0.3550	0.0441	0.68
L9VNZQ		0.2875	-0.0237	-0.36	0.2825	-0.0284	-0.44
M9APZY		0.2500	-0.0612	-0.94	0.2450	-0.0659	-1.02
MUAVPP		0.2800	-0.0312	-0.48	0.2800	-0.0309	-0.48
N4X4QR		0.2650	-0.0462	-0.71	0.2660	-0.0449	-0.69
NQA29Y	X	273.5000	273.1888	4,192.78	274.5000	274.1891	4,240.52
PGEH8W		0.2750	-0.0362	-0.56	0.2800	-0.0309	-0.48
RRA94N	X	6.0500	5.7388	88.08	6.1150	5.8041	89.76
ZCAYZF		0.4050	0.0938	1.44	0.4000	0.0891	1.38

Research Property Consensus Value

Consensus Average

0.31123 g/L

0.31093 g/L

Note: Tests 950, 951 and 952, are research tests. As a result participants should use caution when evaluating data for these tests.

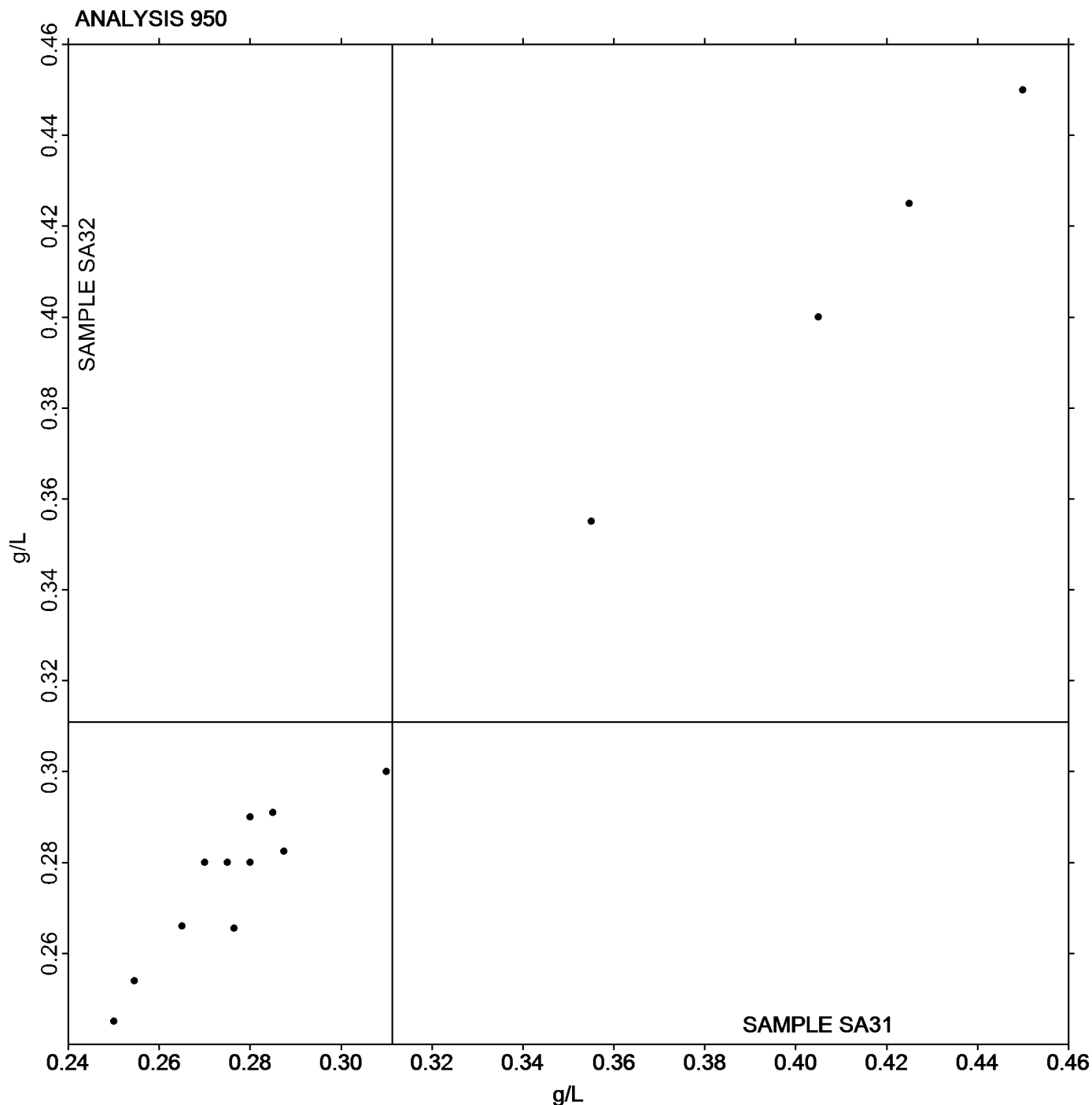
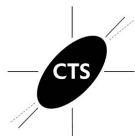
This consensus average is based on 15 reporting participants.

Wines tested: SA31: White Blend; SA32: White Blend

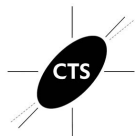
Comments on Assigned Data Flags for Test #950

NQA29Y (X) - Extreme Data.

RRA94N (X) - Extreme data.



If fewer than 20 laboratories are included in an analysis, a control ellipse will not be drawn on the two-sample plot.



ASEV-CTS Wine Industry Interlaboratory Testing Program
Research Property 951
Research: Iron Content

Report #066
Fall 2020

WebCode	Data Flag	Sample SA31			Sample SA32		
		Lab Mean	Diff from Target Value	% Diff from Target Value	Lab Mean	Diff from Target Value	% Diff from Target Value
2NELGC		1.600	0.026	0.19	1.500	-0.062	-0.51
3ATT7A		1.410	-0.164	-1.23	1.345	-0.217	-1.77
BMRHL9		1.890	0.316	2.37	1.780	0.218	1.77
CPWBC2	X	2.800	1.226	9.20	2.900	1.338	10.89
D3UYK7		1.595	0.021	0.16	1.610	0.048	0.39
DYTVRY		1.500	-0.074	-0.56	1.500	-0.062	-0.51
FZPTJ6		1.380	-0.194	-1.46	1.370	-0.192	-1.56
GM9KV4		1.405	-0.169	-1.27	1.400	-0.162	-1.32
JED2UZ		1.540	-0.034	-0.26	1.545	-0.017	-0.14
L9VNZQ		1.565	-0.009	-0.07	1.580	0.018	0.15
MUAVPP		1.626	0.052	0.39	1.612	0.050	0.41
NPUFYX		1.543	-0.031	-0.23	1.510	-0.052	-0.42
NQA29Y		1.665	0.091	0.68	1.660	0.098	0.80
PWQWNU		1.600	0.026	0.19	1.700	0.138	1.12
QNQWKL		1.488	-0.087	-0.65	1.503	-0.060	-0.48
W866NG		1.500	-0.074	-0.56	1.550	-0.012	-0.10
YA3JQN		1.800	0.226	1.69	1.700	0.138	1.12
YEXBYL		1.655	0.081	0.61	1.690	0.128	1.04

Research Property Consensus Value

Consensus Average

1.5742 mg/L

1.5621 mg/L

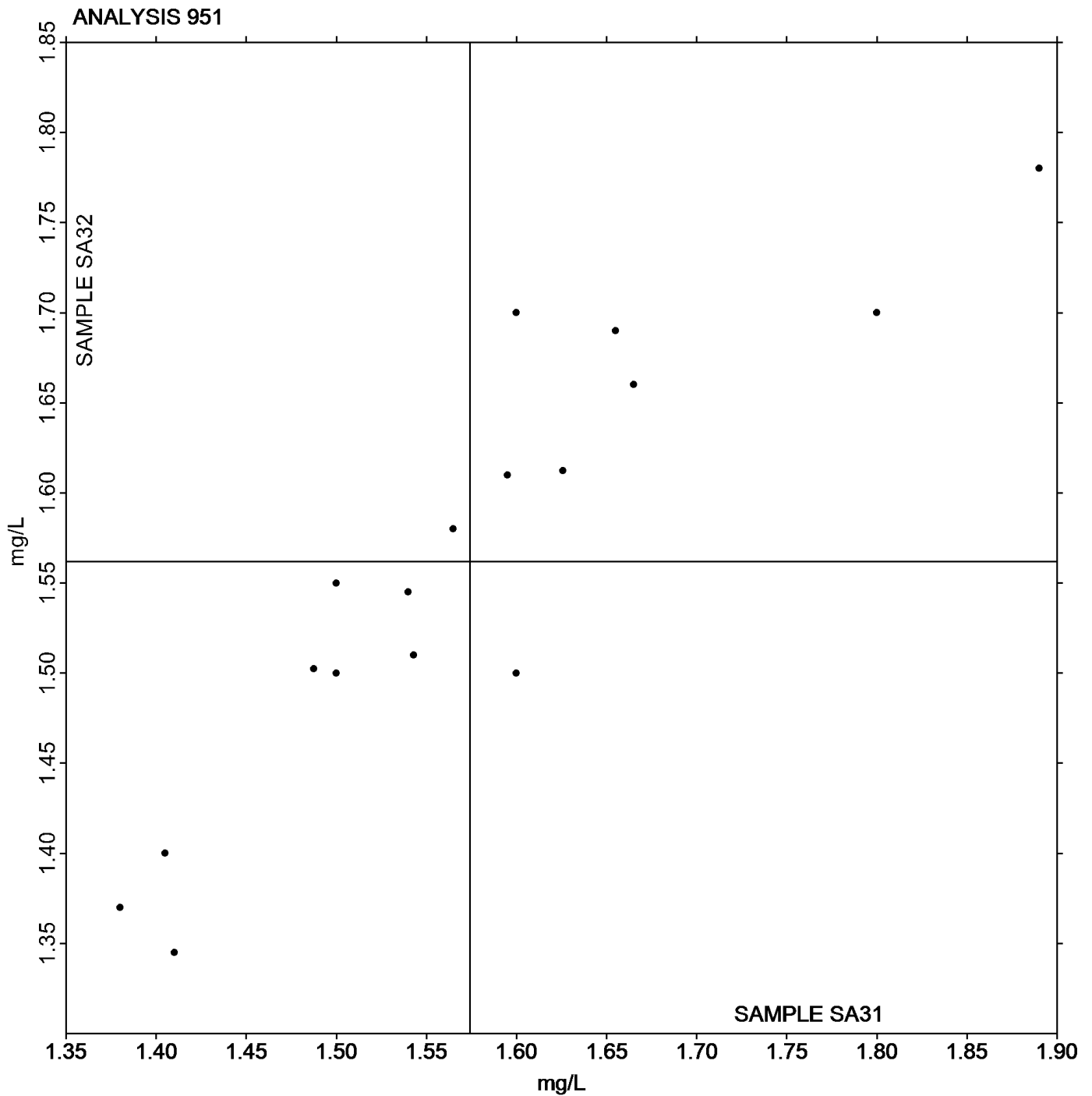
Note: Tests 950, 951 and 952, are research tests. As a result participants should use caution when evaluating data for these tests.

This consensus average is based on 17 reporting participants.

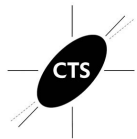
Wines tested: SA31: White Blend; SA32: White Blend

Comments on Assigned Data Flags for Test #951

CPWBC2 (X) - Data for both samples are high.



If fewer than 20 laboratories are included in an analysis, a control ellipse will not be drawn on the two-sample plot.



Research Property: Methanol Content

WebCode	Data Flag	Sample SA31			Sample SA32		
		Lab Mean	Diff from Target Value	% Diff from Target Value	Lab Mean	Diff from Target Value	% Diff from Target Value
BMRHL9		70.10	-20.85	-0.29	65.20	-15.41	-0.34
D3UYK7		56.50	-34.45	-0.48	57.50	-23.11	-0.50
DYTVRY		61.98	-28.97	-0.41	63.18	-17.43	-0.38
E4QJ4Y		100.00	9.05	0.13	100.00	19.39	0.42
HPDDP3		262.00	171.05	2.40	187.00	106.39	2.32
MUAVPP		58.00	-32.95	-0.46	58.00	-22.61	-0.49
PWQWNU		77.00	-13.95	-0.20	69.00	-11.61	-0.25
YEXBYL		42.00	-48.95	-0.69	45.00	-35.61	-0.78

Research Property Consensus Value

Consensus Average

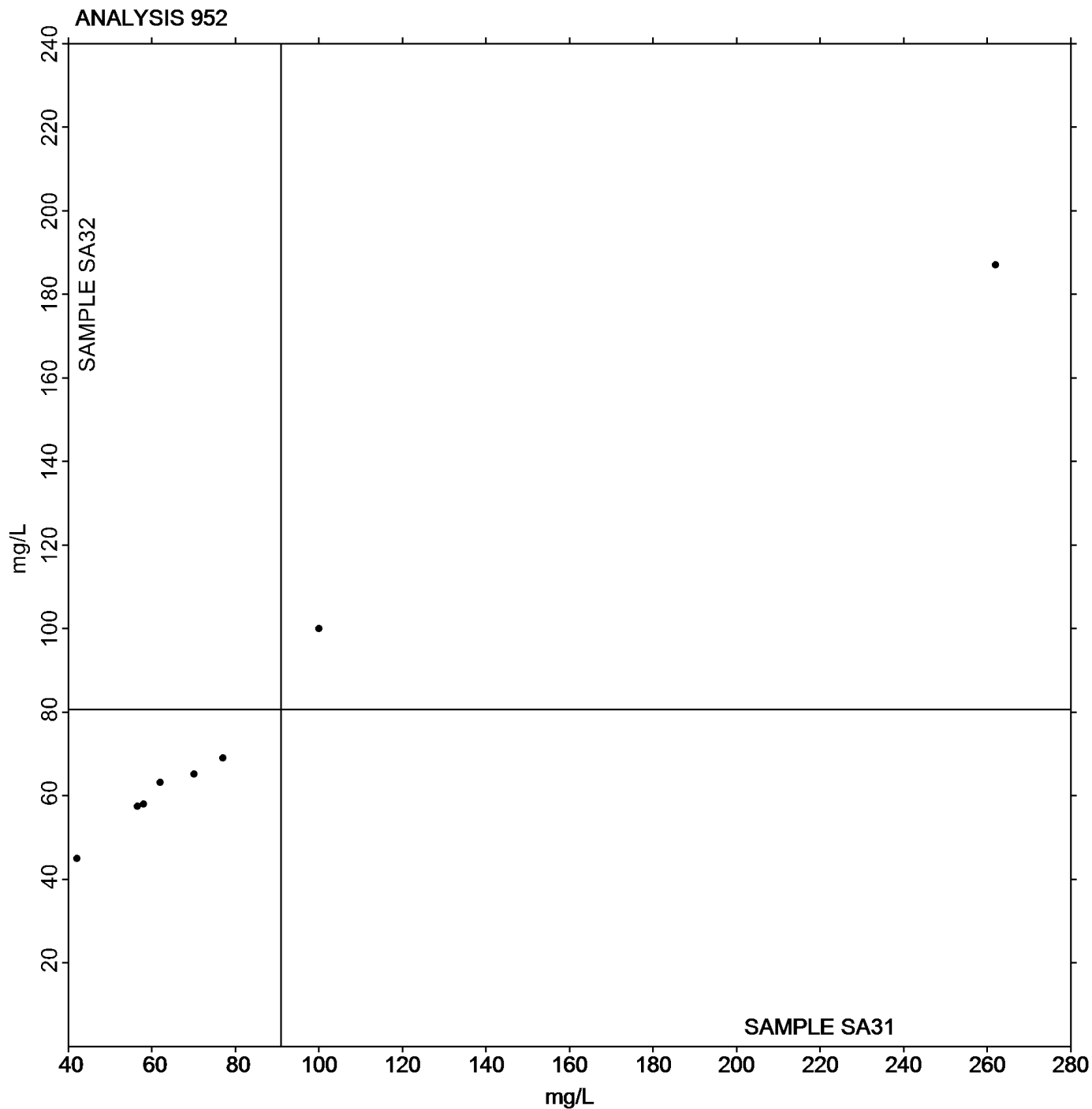
90.947 mg/L

80.609 mg/L

Note: Tests 950, 951 and 952, are research tests. As a result participants should use caution when evaluating data for these tests.

This consensus average is based on 8 reporting participants.

Wines tested: SA31: White Blend; SA32: White Blend



If fewer than 20 laboratories are included in an analysis, a control ellipse will not be drawn on the two-sample plot.

-End of Report-