

Wine Industry Interlaboratory Program

Summary Report #080 - Summer 2025

[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 (1 cm path)</u>
<u>916</u>	<u>A520nm (1 cm path)</u>
<u>950</u>	<u>Research: Guaiacol</u>
<u>951</u>	<u>Research: 4-Methylguaiacol</u>
<u>952</u>	<u>Research: Calories</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 industries including color, rubber, plastics, fasteners and metals, containerboard, paper, agriculture, hemp, and wine, 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 100 countries, currently participate in the CTS programs.

For further information concerning this report contact:

**Collaborative Testing Services, Inc.
21331 Gentry Drive
Sterling, Virginia 20166 USA**

**+1-571-434-1925
wine@cts-interlab.com**

Office Hours: 8:00 a.m. - 4:30 p.m. ET

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:

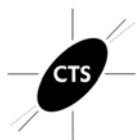
<u>DATA FLAG</u>	<u>STATISTICALLY INCLUDED/EXCLUDED</u>	<u>ACTION REQUIRED</u>
*	INCLUDED	CAUTION - Review testing procedure and monitor future results. Results fall outside 95% ellipse but within a 99% ellipse that is calculated but not drawn.
X	EXCLUDED	STOP - Immediate review of data and/or testing 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.

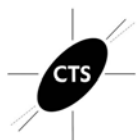
Common Problems Highlighted in Footnotes

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.

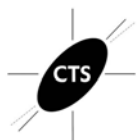
Labs flagged with an * are not typically included in the footnotes of a data table. These labs may locate their position in the control ellipse and use the definitions above to help identify the type of testing error. An * should serve as a caution flag, a "yellow light", to a lab. If this error is repeated 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 #080****Summer 2025****Analysis 901****Ethanol (% of volume)**

WebCode	Data Flag	Sample SA59			Sample SA60		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2F2PND		14.01	-0.04	-0.70	15.15	0.00	0.02
2RFLRW		14.07	0.03	0.44	15.18	0.04	0.45
37BP9R		13.99	-0.06	-1.04	15.18	0.03	0.39
3AA27D	*	13.87	-0.17	-3.05	14.95	-0.19	-2.37
3UFCBG		14.07	0.02	0.35	15.14	0.00	-0.04
4UD79C		13.95	-0.10	-1.74	15.06	-0.08	-1.03
6D4HUQ		14.13	0.09	1.48	15.14	-0.01	-0.11
6EEJHB		14.01	-0.03	-0.61	15.20	0.05	0.63
6HZ4ME		14.03	-0.02	-0.35	15.14	0.00	-0.04
6MT6PT	*	13.89	-0.15	-2.70	14.95	-0.19	-2.37
6YKUME	X	15.10	1.06	18.37	15.30	0.16	1.92
6ZJ3QR		14.06	0.01	0.18	15.17	0.03	0.32
729NY9		14.07	0.03	0.44	15.24	0.10	1.18
73GZGB		14.01	-0.03	-0.61	15.02	-0.12	-1.52
7KGQVT		13.95	-0.10	-1.74	15.11	-0.04	-0.47
7LUKDE	X	13.20	-0.84	-14.71	14.50	-0.64	-7.89
7ZD6X8		14.04	-0.01	-0.17	15.28	0.14	1.67
86MK3P		14.09	0.05	0.78	15.26	0.11	1.37
8J79CM		14.06	0.02	0.26	15.17	0.03	0.32
8KGAXL		14.10	0.06	0.96	15.21	0.06	0.75
8QHNJM		14.14	0.10	1.66	15.24	0.10	1.18
8RXLD9		14.11	0.06	1.05	15.12	-0.02	-0.29
9H8MXM		14.09	0.04	0.70	15.18	0.04	0.45
9TMCYD		14.11	0.07	1.13	15.23	0.08	1.00
9YV VW7		14.07	0.02	0.35	15.11	-0.03	-0.41
AE2GVL		14.15	0.10	1.82	15.29	0.15	1.80
AH3KM9		13.97	-0.07	-1.30	14.98	-0.16	-2.01
AXEX67		14.00	-0.04	-0.78	15.01	-0.13	-1.64
BDLGF3		14.02	-0.02	-0.43	15.25	0.10	1.24
BGKTC3		14.01	-0.04	-0.70	15.18	0.03	0.39
BHFBD4		14.01	-0.03	-0.61	15.18	0.03	0.39
BMB6B6		14.07	0.03	0.44	15.11	-0.04	-0.47
BWY2C7		14.05	0.01	0.09	15.16	0.02	0.20
BZZ3D4		14.04	0.00	-0.09	15.05	-0.09	-1.15
C4UKPL		14.12	0.07	1.22	15.25	0.11	1.30

**ASEV-CTS Wine Industry Interlaboratory Testing Program****Report #080****Summer 2025****Analysis 901****Ethanol (% of volume)**

WebCode	Data Flag	Sample SA59			Sample SA60		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
C9PCXH		14.06	0.02	0.26	15.20	0.05	0.63
CDK7VJ		14.02	-0.02	-0.43	15.12	-0.03	-0.35
CLEA22		14.09	0.05	0.78	15.14	0.00	-0.04
CQ7DU7		14.01	-0.03	-0.61	15.16	0.02	0.20
CXQG39	X	13.35	-0.69	-12.10	14.40	-0.74	-9.12
D9GPXF		14.11	0.06	1.05	15.21	0.06	0.75
DMKUP3		14.00	-0.04	-0.78	15.13	-0.01	-0.17
E3WPH4		13.96	-0.09	-1.57	15.08	-0.07	-0.84
EAUJF2	X	13.83	-0.21	-3.74	14.83	-0.31	-3.85
ECKKJ6	X	14.00	-0.04	-0.78	15.40	0.26	3.14
EDUVAG		14.09	0.05	0.78	15.21	0.06	0.75
EGQEBE		14.04	-0.01	-0.17	15.12	-0.03	-0.35
EVA4BG		13.95	-0.09	-1.65	15.10	-0.04	-0.53
FYRJEG		14.12	0.08	1.31	15.22	0.08	0.94
FZ3KZF		14.01	-0.04	-0.70	15.02	-0.12	-1.52
H8WCLE		14.04	0.00	-0.09	15.26	0.11	1.37
HXB7QW		14.00	-0.04	-0.78	15.00	-0.14	-1.76
JBPQNV		13.95	-0.09	-1.65	15.01	-0.14	-1.70
JLQG6W		14.06	0.02	0.26	15.05	-0.10	-1.21
K3RL8Y		14.06	0.01	0.18	15.13	-0.01	-0.17
K3UBAB		13.97	-0.07	-1.30	15.04	-0.10	-1.27
L2DDGB		14.11	0.06	1.05	15.27	0.13	1.55
L4G7DV		14.02	-0.02	-0.43	15.24	0.10	1.18
LCYHPB		14.08	0.03	0.52	15.23	0.09	1.06
LMWFEV		13.97	-0.08	-1.39	15.15	0.01	0.08
LRNPNU		13.99	-0.06	-1.04	15.08	-0.07	-0.84
LZ623V		14.11	0.07	1.13	15.24	0.09	1.12
MJU27W		14.11	0.07	1.13	15.25	0.11	1.30
MPE3LA		14.07	0.02	0.35	15.14	0.00	-0.04
N8DC8R		14.03	-0.02	-0.35	15.06	-0.08	-1.03
P7C2M9		14.12	0.07	1.22	15.16	0.02	0.20
PJ4NVN		14.06	0.02	0.26	15.11	-0.03	-0.41
PM2ALR		14.07	0.02	0.35	15.19	0.05	0.57
PWCC8R		14.04	0.00	-0.09	15.05	-0.09	-1.15
PXJNPU		14.05	0.01	0.09	15.10	-0.05	-0.60



ASEV-CTS Wine Industry Interlaboratory Testing Program

Report #080
Summer 2025

Analysis 901 Ethanol (% of volume)

WebCode	Data Flag	Sample SA59			Sample SA60		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
PXMDR7		14.10	0.05	0.87	15.20	0.06	0.69
Q3CAVM		14.05	0.01	0.09	15.12	-0.03	-0.35
Q7DFBT		14.10	0.05	0.87	15.20	0.05	0.63
QMHMPU		14.04	-0.01	-0.17	15.11	-0.03	-0.41
RBXTPL		14.08	0.03	0.52	15.22	0.07	0.88
T3MQ4K		14.09	0.05	0.78	15.14	0.00	-0.04
T3MTTP		14.06	0.02	0.26	15.11	-0.03	-0.41
TA6666		13.98	-0.06	-1.13	15.00	-0.14	-1.76
TAN6PL		14.04	0.00	-0.09	15.17	0.03	0.32
UDNGKL		14.07	0.02	0.35	15.17	0.03	0.32
VLA24P		14.01	-0.03	-0.61	15.09	-0.05	-0.66
W6X6YG		14.07	0.03	0.44	15.18	0.04	0.45
WW33TY		13.98	-0.07	-1.22	15.01	-0.14	-1.70
XD9NWK		14.07	0.03	0.44	15.26	0.12	1.43
XE48XM		13.98	-0.06	-1.13	15.12	-0.03	-0.35
XMDGNZ		14.12	0.07	1.22	15.23	0.08	1.00
XQCRJZ		14.02	-0.02	-0.43	15.04	-0.10	-1.27
Y4XLBK	X	13.53	-0.52	-9.05	14.53	-0.62	-7.59
YEWJVV		14.07	0.03	0.44	15.17	0.02	0.26
YV799Y		14.13	0.08	1.39	15.25	0.10	1.24
YWGBVX		14.17	0.13	2.18	15.20	0.05	0.63
Z2QNCW		14.08	0.03	0.52	15.17	0.02	0.26

Grand Means

14.045 percent

Summary Statistics

15.144 percent

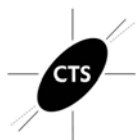
Std Dev Btwn Labs

0.057 percent

0.082 percent

Statistics based on 86 of 92 reporting participants

Wines tested: SA59: Red Blend; SA60: Red Blend



Analysis 901

Ethanol (% of volume)

Comments on Assigned Data Flags for Test #901

EAUJF2 (X) - Data for both samples are low.

ECKKJ6 (X) - Data for sample SA60 are high. Inconsistent within the determinations of both samples.

Y4XLBK (X) - Data for both samples are low.

6YKUME (X) - Data for sample SA59 are high.

CXQG39 (X) - Data for both samples are low.

7LUKDE (X) - Data for both samples are low.

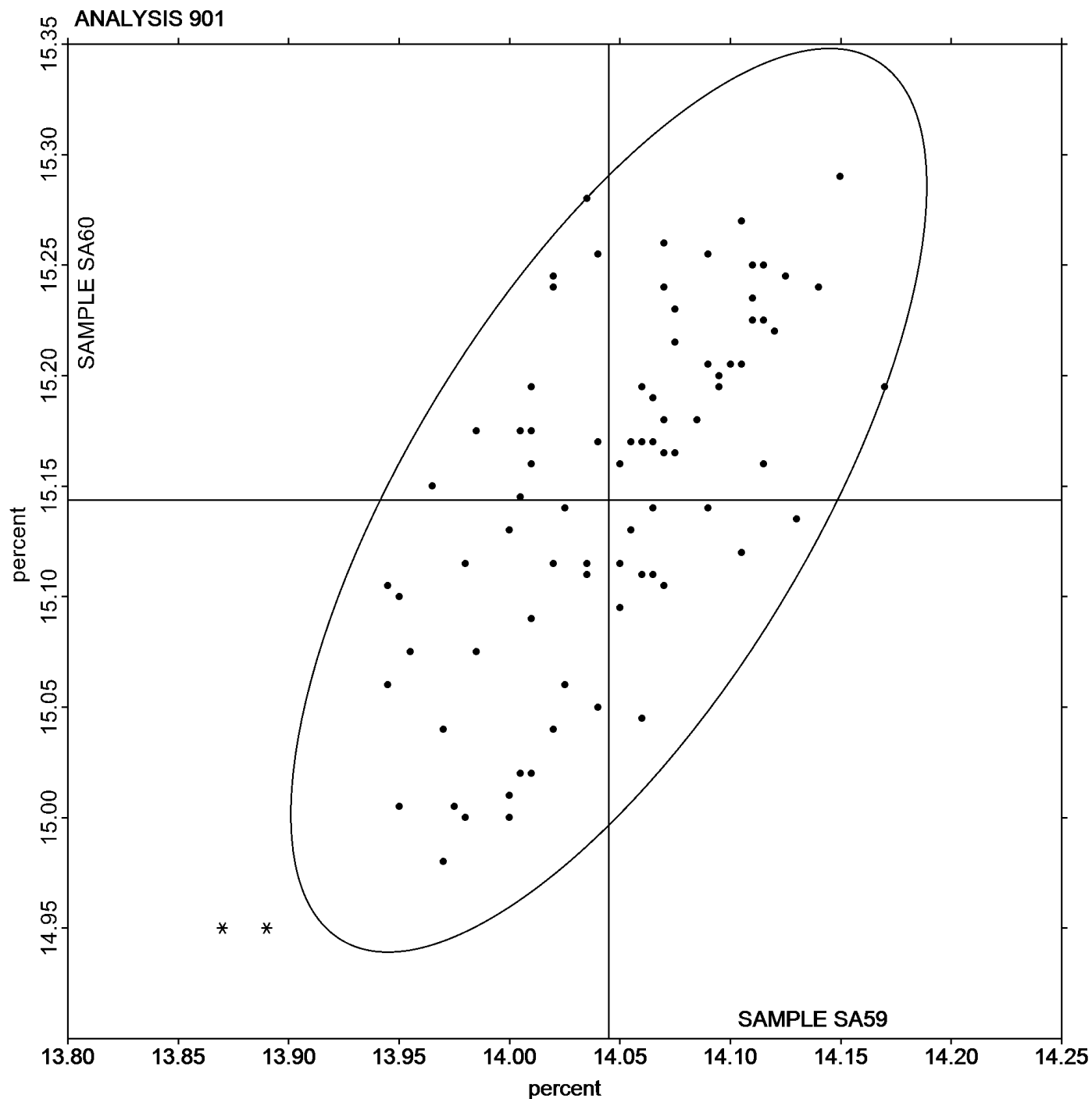
Results by Methodology (as reported by laboratory)

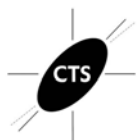
Test Methodology	Sample SA59 <i>Red Blend</i>			Sample SA60 <i>Red Blend</i>			Labs Incl / Rpt
	Group Mean	Btwn Lab STD	Diff from GM	Group Mean	Btwn Lab STD	Diff from GM	
Ebulliometer Method							0/4
Gas Chromatography Method	14.035	0.112	-0.01	15.155	0.131	0.01	5/5
Near Infrared Method	14.050	0.047	0.01	15.150	0.075	0.01	66/66
Dist. / Density Method	14.025	0.073	-0.02	15.108	0.072	-0.04	6/8
FTIR	14.027	0.084	-0.02	15.124	0.105	-0.02	8/8
Other	14.010	0.000	-0.03	15.020	0.000	-0.12	1/1



Analysis 901

Ethanol (% of volume)



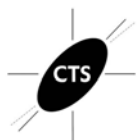


ASEV-CTS Wine Industry Interlaboratory Testing Program

Report #080
Summer 2025

Analysis 902 Total Sulfur Dioxide

WebCode	Data Flag	Sample SA59			Sample SA60		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2F2PND		63.50	-12.09	-0.88	32.50	-22.13	-1.40
2RFLRW		87.00	11.41	0.83	71.00	16.37	1.03
37BP9R		80.50	4.91	0.36	50.00	-4.63	-0.29
3AA27D		62.50	-13.09	-0.95	54.00	-0.63	-0.04
3UFCBG		79.00	3.41	0.25	68.00	13.37	0.84
4UD79C		91.50	15.91	1.16	73.50	18.87	1.19
4WMU8Q		54.55	-21.04	-1.53	58.55	3.92	0.25
6D4HUQ		74.50	-1.09	-0.08	20.00	-34.63	-2.19
6EEJHB		74.50	-1.09	-0.08	45.00	-9.63	-0.61
6HZ4ME		79.00	3.41	0.25	29.00	-25.63	-1.62
6MT6PT		65.60	-9.99	-0.73	47.50	-7.13	-0.45
6YKUME		70.00	-5.59	-0.41	64.00	9.37	0.59
6ZJ3QR		88.50	12.91	0.94	62.00	7.37	0.47
729NY9		86.00	10.41	0.76	73.50	18.87	1.19
73GZGB		76.00	0.41	0.03	56.50	1.87	0.12
74U84D		75.00	-0.59	-0.04	45.50	-9.13	-0.58
7KGQVT		85.00	9.41	0.68	61.50	6.87	0.43
7LUKDE	*	107.00	31.41	2.28	86.00	31.37	1.98
7ZD6X8		76.50	0.91	0.07	77.00	22.37	1.41
86MK3P		51.00	-24.59	-1.79	39.50	-15.13	-0.96
8J79CM		80.50	4.91	0.36	74.00	19.37	1.22
8QHNJM		75.00	-0.59	-0.04	52.00	-2.63	-0.17
8RXLD9	*	42.00	-33.59	-2.44	57.00	2.37	0.15
93DX4B		66.50	-9.09	-0.66	26.50	-28.13	-1.78
9H8MXM		87.20	11.61	0.84	59.10	4.47	0.28
9YVVW7		67.50	-8.09	-0.59	44.00	-10.63	-0.67
AE2GVL		74.09	-1.51	-0.11	33.71	-20.92	-1.32
AH3KM9		76.00	0.41	0.03	53.00	-1.63	-0.10
AXEX67	X	27.50	-48.09	-3.49	2.00	-52.63	-3.32
BDLGF3	*	44.00	-31.59	-2.30	59.50	4.87	0.31
BHFBD4		102.50	26.91	1.96	74.00	19.37	1.22
BMB6B6		69.00	-6.59	-0.48	54.50	-0.13	-0.01
BWY2C7		85.00	9.41	0.68	72.00	17.37	1.10
BZZ3D4		98.00	22.41	1.63	56.00	1.37	0.09
C4UKPL		74.50	-1.09	-0.08	47.20	-7.43	-0.47

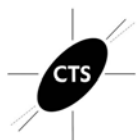


ASEV-CTS Wine Industry Interlaboratory Testing Program

Report #080
Summer 2025

Analysis 902 Total Sulfur Dioxide

WebCode	Data Flag	Sample SA59			Sample SA60		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
C9PCXH		58.00	-17.59	-1.28	35.00	-19.63	-1.24
CDK7VJ		97.00	21.41	1.56	78.00	23.37	1.48
CLEA22		80.65	5.06	0.37	61.75	7.12	0.45
CQ7DU7		72.50	-3.09	-0.22	56.50	1.87	0.12
CXQG39		80.85	5.26	0.38	54.35	-0.28	-0.02
D9GPXF		69.50	-6.09	-0.44	48.50	-6.13	-0.39
DMKUP3	*	66.00	-9.59	-0.70	10.00	-44.63	-2.82
E3WPH4		75.00	-0.59	-0.04	50.00	-4.63	-0.29
EAUJF2	*	78.55	2.96	0.21	19.10	-35.53	-2.24
ECKKJ6		81.50	5.91	0.43	74.50	19.87	1.25
EDUVAG		88.00	12.41	0.90	51.50	-3.13	-0.20
EGQEBE		92.50	16.91	1.23	87.00	32.37	2.04
EVA4BG		73.50	-2.09	-0.15	66.00	11.37	0.72
FYRJEG		94.50	18.91	1.37	70.50	15.87	1.00
FZ3KZF		78.50	2.91	0.21	53.00	-1.63	-0.10
H8WCLE		77.50	1.91	0.14	74.50	19.87	1.25
HXB7QW		97.50	21.91	1.59	58.00	3.37	0.21
JBPQNV		74.50	-1.09	-0.08	40.00	-14.63	-0.92
K3RL8Y		82.50	6.91	0.50	43.50	-11.13	-0.70
K3UBAB		76.00	0.41	0.03	42.00	-12.63	-0.80
L2DDGB		52.00	-23.59	-1.71	36.50	-18.13	-1.14
L4G7DV		67.00	-8.59	-0.62	57.00	2.37	0.15
LCYHPB		67.00	-8.59	-0.62	52.00	-2.63	-0.17
LMWFEV		81.00	5.41	0.39	54.00	-0.63	-0.04
LRNPNU		79.50	3.91	0.28	39.00	-15.63	-0.99
LZ623V		49.00	-26.59	-1.93	52.00	-2.63	-0.17
MJU27W		74.00	-1.59	-0.12	36.00	-18.63	-1.18
MPE3LA		63.50	-12.09	-0.88	58.00	3.37	0.21
N8DC8R		68.50	-7.09	-0.52	41.00	-13.63	-0.86
P7C2M9		84.50	8.91	0.65	28.50	-26.13	-1.65
PJ4NVN		54.50	-21.09	-1.53	63.50	8.87	0.56
PM2ALR		73.00	-2.59	-0.19	67.50	12.87	0.81
PWCC8R		98.00	22.41	1.63	42.00	-12.63	-0.80
PXJNPU		56.00	-19.59	-1.42	33.50	-21.13	-1.33
PXMDR7		76.00	0.41	0.03	59.00	4.37	0.28

**ASEV-CTS Wine Industry Interlaboratory Testing Program****Report #080****Summer 2025****Analysis 902
Total Sulfur Dioxide**

WebCode	Data Flag	Sample SA59			Sample SA60		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
Q3CAVM		79.95	4.36	0.32	47.20	-7.43	-0.47
Q7DFBT		79.50	3.91	0.28	77.00	22.37	1.41
QMHMPU		82.50	6.91	0.50	62.00	7.37	0.47
RBXTPL		80.00	4.41	0.32	44.50	-10.13	-0.64
T3MQ4K		66.50	-9.09	-0.66	63.50	8.87	0.56
T3MTTP		74.50	-1.09	-0.08	53.50	-1.13	-0.07
TA6666	*	52.50	-23.09	-1.68	80.00	25.37	1.60
TAN6PL		63.00	-12.59	-0.91	60.50	5.87	0.37
UDNGKL		76.50	0.91	0.07	54.50	-0.13	-0.01
VLA24P		87.50	11.91	0.87	66.00	11.37	0.72
W6X6YG		79.00	3.41	0.25	50.50	-4.13	-0.26
WW33TY		103.50	27.91	2.03	87.50	32.87	2.08
XD9NWK	*	106.50	30.91	2.25	87.00	32.37	2.04
XE48XM		62.00	-13.59	-0.99	54.00	-0.63	-0.04
XMDGNZ		74.00	-1.59	-0.12	45.00	-9.63	-0.61
XQCRJZ		88.50	12.91	0.94	44.00	-10.63	-0.67
Y4XLBK		48.80	-26.79	-1.95	57.60	2.97	0.19
YEWJYV		81.00	5.41	0.39	69.00	14.37	0.91
YV799Y		75.50	-0.09	-0.01	45.00	-9.63	-0.61
YWGBVX		81.00	5.41	0.39	55.50	0.87	0.06
Z2QNCW		54.00	-21.59	-1.57	42.50	-12.13	-0.77

Grand Means

75.592 mg/L

Summary Statistics

54.628 mg/L

Std Dev Btwn Labs

13.762 mg/L

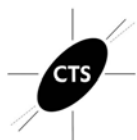
15.836 mg/L

Statistics based on 90 of 91 reporting participants

Wines tested: SA59: Red Blend; SA60: Red Blend

Comments on Assigned Data Flags for Test #902

AXEX67 (X) - Data for both samples are low.



Results by Methodology (as reported by laboratory)

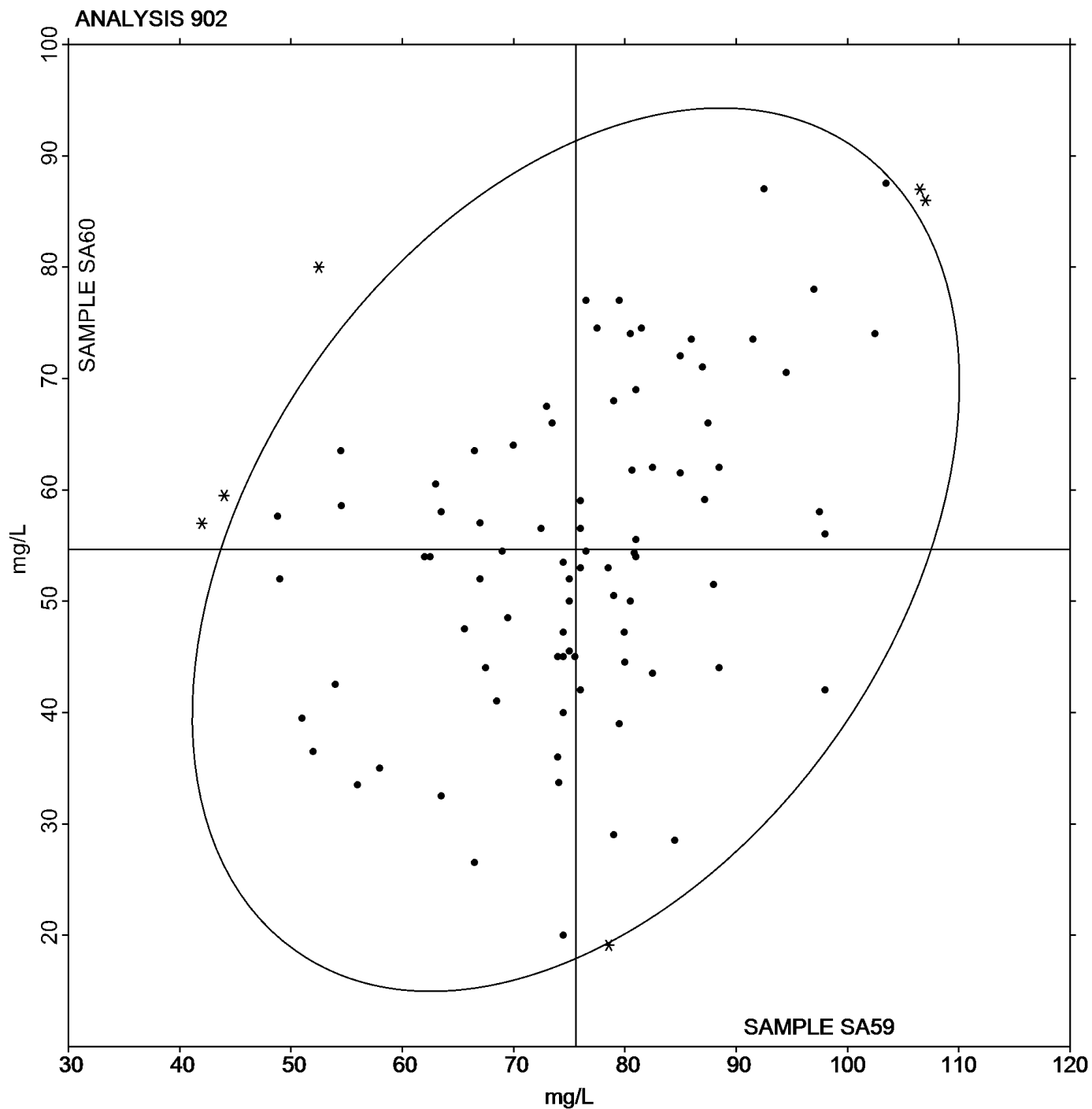
Test Methodology	Sample SA59 <i>Red Blend</i>			Sample SA60 <i>Red Blend</i>			Labs Incl / Rpt
	Group Mean	Btwn Lab STD	Diff from GM	Group Mean	Btwn Lab STD	Diff from GM	
Please specify method used	94.000	18.385	18.41	77.500	12.021	22.87	2/2
Ripper Method	74.193	14.095	-1.40	59.176	12.974	4.55	36/37
Aeration Oxidation (AO) Method	69.179	9.325	-6.41	48.421	10.602	-6.21	12/12
Segmented Flow Analyzer	64.167	12.404	-11.42	52.750	8.055	-1.88	6/6
Enzymatic Method	83.942	12.475	8.35	60.015	20.655	5.39	13/13
Colormetric Analyzer	80.200	12.612	4.61	46.911	17.476	-7.72	14/14
FTIR	73.125	14.665	-2.47	49.500	10.223	-5.13	4/4
Flow Injection Analysis	74.195	0.268	-1.40	32.902	12.519	-21.73	3/3

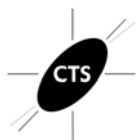


Analysis 902

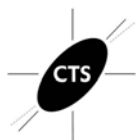
Summer 2025

Total Sulfur Dioxide

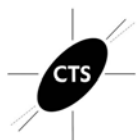


**ASEV-CTS Wine Industry Interlaboratory Testing Program****Report #080****Analysis 903****Summer 2025****Free Sulfur Dioxide**

WebCode	Data Flag	Sample SA59			Sample SA60		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2F2PND	M	10.00	-2.91	-0.73	No data reported for this sample		
2RFLRW		17.50	4.59	1.15	14.500	5.158	1.25
37BP9R	*	13.00	0.09	0.02	1.300	-8.042	-1.95
3AA27D	M	5.35	-7.56	-1.89	No data reported for this sample		
3UFCBG	*	21.00	8.09	2.02	21.000	11.658	2.82
4UD79C		19.00	6.09	1.52	13.500	4.158	1.01
6D4HUQ		13.50	0.59	0.15	3.000	-6.342	-1.53
6EEJHB		11.50	-1.41	-0.35	5.000	-4.342	-1.05
6HZ4ME		19.50	6.59	1.65	13.500	4.158	1.01
6MT6PT		20.60	7.69	1.92	13.200	3.858	0.93
6YKUME		16.00	3.09	0.77	10.000	0.658	0.16
6ZJ3QR		20.00	7.09	1.77	14.000	4.658	1.13
729NY9		14.50	1.59	0.40	9.500	0.158	0.04
73GZGB		15.00	2.09	0.52	13.000	3.658	0.89
74U84D		15.00	2.09	0.52	7.000	-2.342	-0.57
7KGQVT		14.00	1.09	0.27	7.000	-2.342	-0.57
7LUKDE		16.00	3.09	0.77	10.500	1.158	0.28
7ZD6X8	*	16.50	3.59	0.90	19.500	10.158	2.46
86MK3P		7.00	-5.91	-1.48	9.000	-0.342	-0.08
8J79CM		10.50	-2.41	-0.60	11.000	1.658	0.40
8KGAXL		5.00	-7.91	-1.98	5.000	-4.342	-1.05
8QHNJM		15.50	2.59	0.65	11.500	2.158	0.52
8RXLD9	M	No data reported for this sample			10.000	0.658	0.16
93DX4B		8.50	-4.41	-1.10	2.650	-6.692	-1.62
9H8MXM		13.50	0.59	0.15	8.000	-1.342	-0.32
9TMCYD		12.51	-0.40	-0.10	11.231	1.889	0.46
9YV VW7		10.50	-2.41	-0.60	8.000	-1.342	-0.32
AE2GVL		11.34	-1.58	-0.39	4.185	-5.157	-1.25
AH3KM9		11.00	-1.91	-0.48	8.000	-1.342	-0.32
BDLGF3	X	1.00	-11.91	-2.97	8.000	-1.342	-0.32
BGKTC3		19.00	6.09	1.52	15.500	6.158	1.49
BHFBD4		14.00	1.09	0.27	9.000	-0.342	-0.08
BMB6B6		12.00	-0.91	-0.23	11.000	1.658	0.40
BWY2C7		7.50	-5.41	-1.35	6.000	-3.342	-0.81
BZZ3D4		11.00	-1.91	-0.48	4.000	-5.342	-1.29

**ASEV-CTS Wine Industry Interlaboratory Testing Program****Report #080****Analysis 903****Summer 2025****Free Sulfur Dioxide**

WebCode	Data Flag	Sample SA59			Sample SA60		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
C4UKPL		12.85	-0.06	-0.02	9.600	0.258	0.06
CDK7VJ		10.50	-2.41	-0.60	8.500	-0.842	-0.20
CLEA22		12.90	-0.01	0.00	9.000	-0.342	-0.08
CQ7DU7		17.00	4.09	1.02	18.000	8.658	2.10
CXQG39		15.76	2.84	0.71	12.455	3.113	0.75
D9GPXF		13.00	0.09	0.02	9.500	0.158	0.04
DMKUP3		8.00	-4.91	-1.23	7.000	-2.342	-0.57
E3WPH4		11.00	-1.91	-0.48	6.000	-3.342	-0.81
EAUJF2		12.40	-0.51	-0.13	1.350	-7.992	-1.93
ECKKJ6		9.00	-3.91	-0.98	10.000	0.658	0.16
EDUVAG		15.50	2.59	0.65	8.000	-1.342	-0.32
EGQEBE		7.00	-5.91	-1.48	6.000	-3.342	-0.81
EVA4BG		8.00	-4.91	-1.23	9.000	-0.342	-0.08
FYRJEG		9.50	-3.41	-0.85	5.000	-4.342	-1.05
FZ3KZF		11.00	-1.91	-0.48	8.500	-0.842	-0.20
H8WCLE		13.00	0.09	0.02	12.000	2.658	0.64
HXB7QW		13.00	0.09	0.02	8.000	-1.342	-0.32
JBPQNV		14.80	1.89	0.47	9.350	0.008	0.00
JLQG6W		15.00	2.09	0.52	10.000	0.658	0.16
K3RL8Y		9.50	-3.41	-0.85	3.500	-5.842	-1.41
K3UBAB		15.00	2.09	0.52	8.500	-0.842	-0.20
L2DDGB		11.00	-1.91	-0.48	5.000	-4.342	-1.05
L4G7DV		14.00	1.09	0.27	14.000	4.658	1.13
LCYHPB		14.00	1.09	0.27	11.000	1.658	0.40
LMWFEV		18.50	5.59	1.40	11.000	1.658	0.40
LRNPNU		7.00	-5.91	-1.48	4.000	-5.342	-1.29
LZ623V	*	3.50	-9.41	-2.35	7.500	-1.842	-0.45
MJU27W		11.00	-1.91	-0.48	5.000	-4.342	-1.05
MPE3LA		6.40	-6.51	-1.63	7.950	-1.392	-0.34
N8DC8R		12.00	-0.91	-0.23	8.000	-1.342	-0.32
P7C2M9		15.00	2.09	0.52	8.500	-0.842	-0.20
PJ4NVN	*	5.50	-7.41	-1.85	10.000	0.658	0.16
PM2ALR		13.50	0.59	0.15	13.000	3.658	0.89
PWCC8R	*	20.00	7.09	1.77	8.000	-1.342	-0.32
PXJNPU		6.55	-6.36	-1.59	4.600	-4.742	-1.15

Analysis 903
Free Sulfur Dioxide

WebCode	Data Flag	Sample SA59			Sample SA60		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
PXMDR7		15.50	2.59	0.65	12.000	2.658	0.64
Q3CAVM		14.40	1.49	0.37	6.900	-2.442	-0.59
Q7DFBT		8.50	-4.41	-1.10	10.500	1.158	0.28
QMHMPU		13.00	0.09	0.02	10.000	0.658	0.16
RBXTPL		10.00	-2.91	-0.73	6.000	-3.342	-0.81
T3MQ4K		8.50	-4.41	-1.10	9.000	-0.342	-0.08
T3MTTP		14.00	1.09	0.27	11.000	1.658	0.40
TA6666	X	5.00	-7.91	-1.98	13.000	3.658	0.89
TAN6PL		15.00	2.09	0.52	17.000	7.658	1.85
UDNGKL		12.00	-0.91	-0.23	5.500	-3.842	-0.93
VLA24P	*	22.50	9.59	2.39	18.000	8.658	2.10
W6X6YG		18.50	5.59	1.40	11.000	1.658	0.40
WW33TY		15.50	2.59	0.65	13.000	3.658	0.89
XD9NWK		13.50	0.59	0.15	10.000	0.658	0.16
XE48XM	*	18.00	5.09	1.27	20.000	10.658	2.58
XMDGNZ		11.50	-1.41	-0.35	7.000	-2.342	-0.57
XQCRJZ		10.00	-2.91	-0.73	3.000	-6.342	-1.53
Y4XLBK		12.80	-0.11	-0.03	14.950	5.608	1.36
YEWJVV		18.00	5.09	1.27	11.000	1.658	0.40
YV799Y		12.50	-0.41	-0.10	8.000	-1.342	-0.32
YWGBVX		10.00	-2.91	-0.73	5.000	-4.342	-1.05
Z2QNCW		6.50	-6.41	-1.60	7.500	-1.842	-0.45

Grand Means

12.911 mg/L

Summary Statistics

9.3416 mg/L

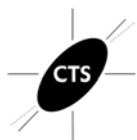
Std Dev Btwn Labs

4.004 mg/L

4.1315 mg/L

Statistics based on 87 of 92 reporting participants

Wines tested: SA59: Red Blend; SA60: Red Blend

Analysis 903
Free Sulfur Dioxide**Comments on Assigned Data Flags for Test #903**

TA6666 (X) - Inconsistent in testing between samples.

BDLGF3 (X) - Data for sample SA59 are low.

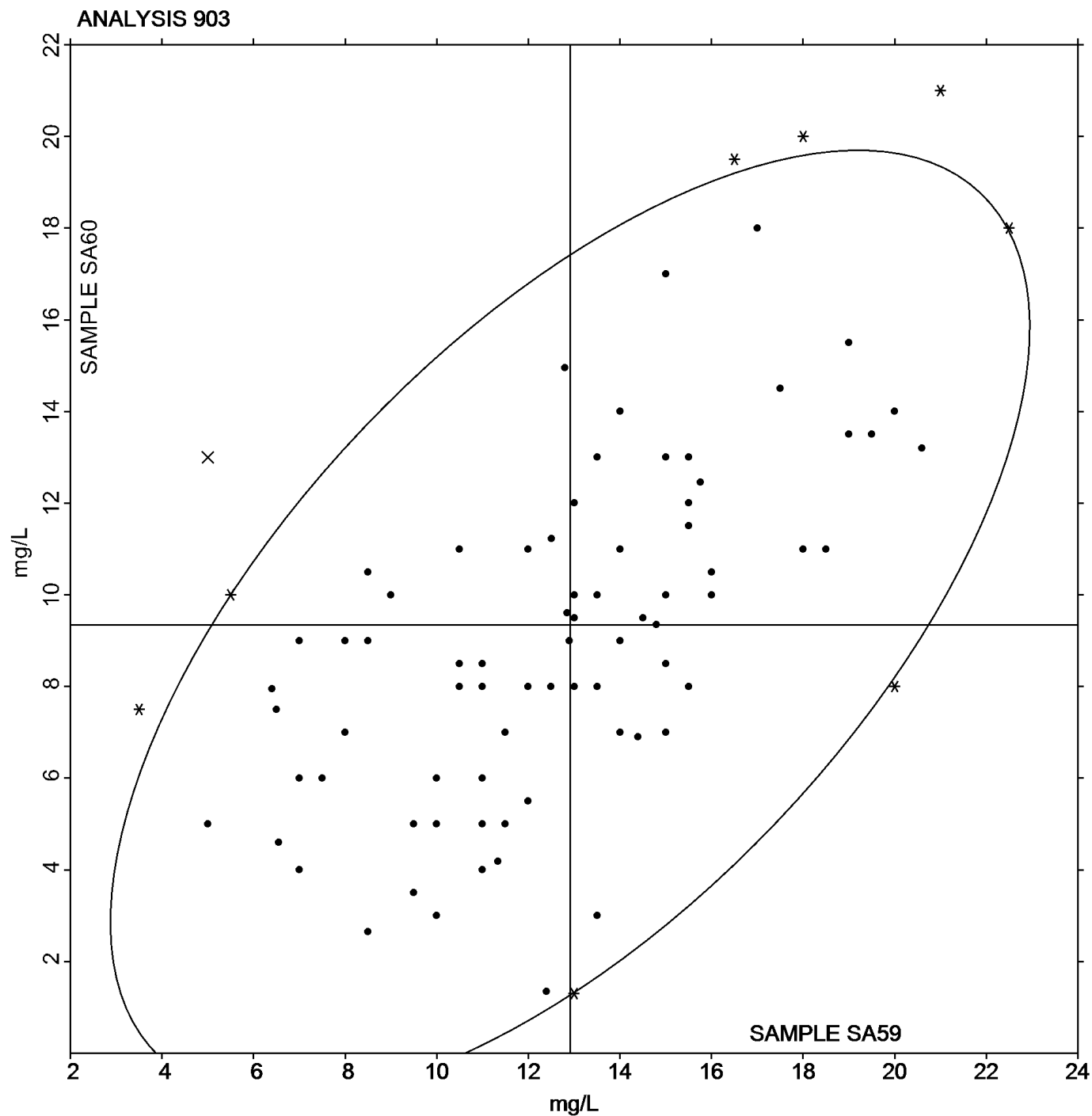
8RXLD9 (M) - Participant did not submit data for sample SA59.

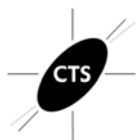
2F2PND (M) - Participant did not submit data for sample SA60.

3AA27D (M) - Participant did not submit data for sample SA60.

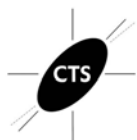
Results by Methodology (as reported by laboratory)

Test Methodology	Sample SA59 <i>Red Blend</i>			Sample SA60 <i>Red 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	13.667	5.859	0.76	9.167	2.754	-0.17	3/3
Ripper Method	15.031	3.951	2.12	12.565	4.394	3.22	26/30
Aeration Oxidation (AO) Method	12.559	3.908	-0.35	9.193	3.278	-0.15	23/24
Segmented Flow Analyzer	10.843	4.430	-2.07	8.350	2.394	-0.99	7/7
Enzymatic Method	11.300	2.179	-1.61	6.106	2.922	-3.24	8/8
Colormetric Analyzer	12.292	3.746	-0.62	8.234	2.821	-1.11	12/12
Flow Injection Analysis	9.959	4.417	-2.95	5.421	2.176	-3.92	4/4
FTIR	12.250	1.500	-0.66	4.825	2.488	-4.52	4/4

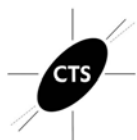


**ASEV-CTS Wine Industry Interlaboratory Testing Program****Report #080****Analysis 904
Titratable Acidity****Summer 2025**

WebCode	Data Flag	Sample SA59			Sample SA60		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2F2PND		5.275	-0.013	-0.11	6.120	-0.066	-0.46
2RFLRW		5.210	-0.078	-0.66	6.095	-0.091	-0.64
37BP9R		5.410	0.122	1.02	6.240	0.054	0.38
3AA27D	*	5.629	0.340	2.86	6.599	0.412	2.89
3UFCBG		5.185	-0.103	-0.87	6.125	-0.061	-0.43
4UD79C		5.405	0.117	0.98	6.355	0.169	1.19
4WMU8Q		5.463	0.175	1.47	6.356	0.169	1.19
6D4HUQ		5.300	0.012	0.10	6.150	-0.036	-0.25
6EEJHB		5.170	-0.118	-0.99	6.185	-0.001	-0.01
6HZ4ME		5.250	-0.038	-0.32	6.300	0.114	0.80
6MT6PT		5.240	-0.048	-0.40	6.170	-0.016	-0.11
6YKUME	X	4.880	-0.408	-3.43	5.870	-0.316	-2.22
6ZJ3QR	*	5.000	-0.288	-2.42	6.000	-0.186	-1.31
729NY9		5.300	0.012	0.10	6.315	0.129	0.90
73GZGB		5.500	0.212	1.78	6.400	0.214	1.50
74U84D		5.250	-0.038	-0.32	6.200	0.014	0.10
7KGQVT	X	4.950	-0.338	-2.84	5.650	-0.536	-3.76
7LUKDE	X	6.025	0.737	6.19	6.810	0.624	4.38
7ZD6X8		5.200	-0.088	-0.74	6.300	0.114	0.80
86MK3P		5.300	0.012	0.10	6.250	0.064	0.45
8J79CM		5.300	0.012	0.10	6.300	0.114	0.80
8KGAXL		5.150	-0.138	-1.16	6.100	-0.086	-0.60
8QHNJM	*	5.525	0.237	1.99	6.175	-0.011	-0.08
8RXLD9		5.165	-0.123	-1.03	5.895	-0.291	-2.04
93DX4B		5.325	0.037	0.31	6.220	0.034	0.24
9H8MXM		5.215	-0.073	-0.61	6.070	-0.116	-0.81
9TMCYD		5.250	-0.038	-0.32	6.065	-0.121	-0.85
9YVVW7		5.350	0.062	0.52	6.200	0.014	0.10
AE2GVL		5.150	-0.138	-1.16	5.975	-0.211	-1.48
AH3KM9		5.355	0.067	0.56	6.225	0.039	0.27
AXEX67		5.250	-0.038	-0.32	6.100	-0.086	-0.60
BDLGF3		5.250	-0.038	-0.32	6.250	0.064	0.45
BGKTC3	X	5.710	0.422	3.54	6.230	0.044	0.31
BHFBD4		5.235	-0.053	-0.45	6.180	-0.006	-0.04
BMB6B6		5.350	0.062	0.52	6.100	-0.086	-0.60

**ASEV-CTS Wine Industry Interlaboratory Testing Program****Report #080****Analysis 904**
Titrateable Acidity**Summer 2025**

WebCode	Data Flag	Sample SA59			Sample SA60		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
BWY2C7		5.415	0.127	1.07	6.345	0.159	1.12
BZZ3D4	X	5.600	0.312	2.62	6.010	-0.176	-1.24
C4UKPL		5.150	-0.138	-1.16	6.105	-0.081	-0.57
C9PCXH		5.300	0.012	0.10	6.350	0.164	1.15
CDK7VJ		5.245	-0.043	-0.36	6.150	-0.036	-0.25
CLEA22		5.335	0.047	0.39	6.170	-0.016	-0.11
CQ7DU7		5.150	-0.138	-1.16	6.000	-0.186	-1.31
CXQG39	X	6.070	0.782	6.57	6.690	0.504	3.54
D9GPXF		5.500	0.212	1.78	6.500	0.314	2.20
DMKUP3		5.300	0.012	0.10	6.380	0.194	1.36
E3WPH4		5.400	0.112	0.94	6.500	0.314	2.20
EAUJF2		5.400	0.112	0.94	6.100	-0.086	-0.60
ECKKJ6		5.286	-0.003	-0.02	6.135	-0.051	-0.36
EDUVAG		5.230	-0.058	-0.49	6.120	-0.066	-0.46
EGQEBE		5.050	-0.238	-2.00	5.900	-0.286	-2.01
EVA4BG		5.200	-0.088	-0.74	6.100	-0.086	-0.60
FYRJEG		5.100	-0.188	-1.58	6.000	-0.186	-1.31
FZ3KZF		5.505	0.217	1.82	6.450	0.264	1.85
H8WCLE		5.100	-0.188	-1.58	6.200	0.014	0.10
HXB7QW		5.400	0.112	0.94	6.100	-0.086	-0.60
JBPQNV		5.500	0.212	1.78	6.500	0.314	2.20
JLQG6W		5.570	0.282	2.37	6.360	0.174	1.22
K3RL8Y		5.225	-0.063	-0.53	6.165	-0.021	-0.15
K3UBAB		5.405	0.117	0.98	6.265	0.079	0.55
L2DDGB		5.245	-0.043	-0.36	5.960	-0.226	-1.59
L4G7DV		5.300	0.012	0.10	6.400	0.214	1.50
LCYHPB		5.250	-0.038	-0.32	6.100	-0.086	-0.60
LMWFEV		5.250	-0.038	-0.32	6.085	-0.101	-0.71
LRNPNU		5.350	0.062	0.52	6.200	0.014	0.10
LZ623V		5.300	0.012	0.10	6.150	-0.036	-0.25
MJU27W		5.200	-0.088	-0.74	6.200	0.014	0.10
MPE3LA	X	5.585	0.297	2.49	6.730	0.544	3.82
N8DC8R		5.300	0.012	0.10	6.050	-0.136	-0.95
P7C2M9	X	5.215	-0.073	-0.61	5.750	-0.436	-3.06
PJ4NVN		5.175	-0.113	-0.95	5.970	-0.216	-1.52

Analysis 904
Titratable Acidity

WebCode	Data Flag	Sample SA59			Sample SA60		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
PM2ALR		5.352	0.064	0.54	6.303	0.117	0.82
PWCC8R		5.300	0.012	0.10	6.300	0.114	0.80
PXJNPU		5.195	-0.093	-0.78	6.020	-0.166	-1.16
PXMDR7		5.245	-0.043	-0.36	6.160	-0.026	-0.18
Q3CAVM		5.255	-0.033	-0.28	6.170	-0.016	-0.11
Q7DFBT		5.350	0.062	0.52	6.200	0.014	0.10
QMHMPU		5.160	-0.128	-1.08	6.055	-0.131	-0.92
RBXTPL		5.300	0.012	0.10	6.250	0.064	0.45
T3MQ4K		5.350	0.062	0.52	6.100	-0.086	-0.60
TA6666		5.370	0.082	0.69	6.190	0.004	0.03
TAN6PL		5.170	-0.118	-0.99	6.115	-0.071	-0.50
UDNGKL		5.250	-0.038	-0.32	6.175	-0.011	-0.08
VLA24P		5.400	0.112	0.94	6.200	0.014	0.10
W6X6YG		5.450	0.162	1.36	6.250	0.064	0.45
WW33TY		5.110	-0.178	-1.50	6.035	-0.151	-1.06
XD9NWK		5.260	-0.028	-0.24	6.175	-0.011	-0.08
XE48XM		5.450	0.162	1.36	6.450	0.264	1.85
XQCRJZ		5.200	-0.088	-0.74	6.000	-0.186	-1.31
Y4XLBK		5.300	0.012	0.10	6.150	-0.036	-0.25
YV799Y		5.190	-0.098	-0.82	6.155	-0.031	-0.22
YWGBVX		5.300	0.012	0.10	6.100	-0.086	-0.60
Z2QNCW		5.150	-0.138	-1.16	6.050	-0.136	-0.95

Grand Means

5.2881 g/L as tartaric acid

Summary Statistics

6.1860 g/L as tartaric acid

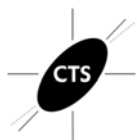
Std Dev Btwn Labs

0.1191 g/L as tartaric acid

0.1425 g/L as tartaric acid

Statistics based on 84 of 92 reporting participants

Wines tested: SA59: Red Blend; SA60: Red Blend

Analysis 904
Titratable Acidity**Comments on Assigned Data Flags for Test #904**

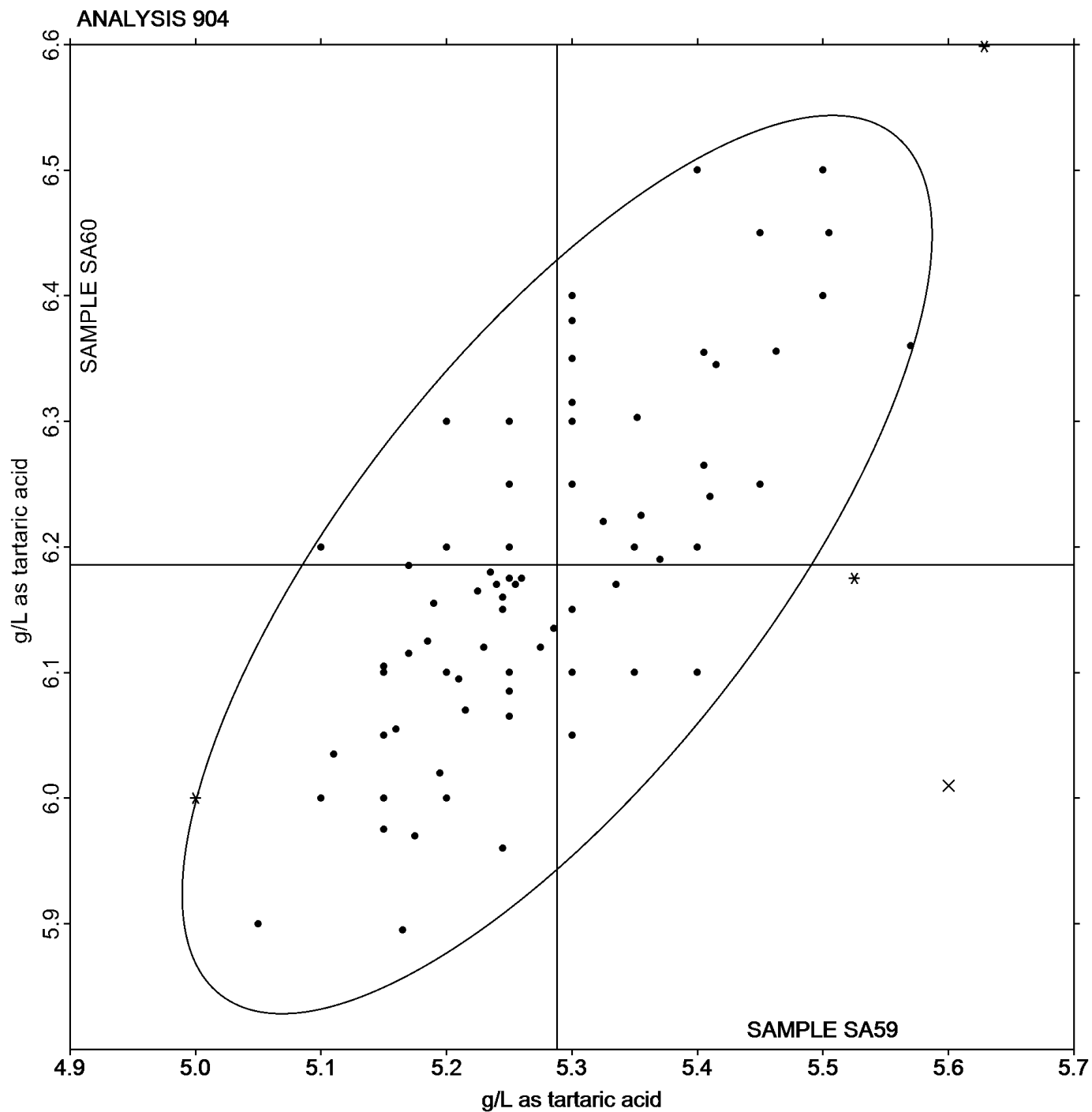
MPE3LA (X) - Data for sample SA60 are high.
P7C2M9 (X) - Data for sample SA60 are low.
7KGQVT (X) - Data for both samples are low.
BGKTC3 (X) - Data for sample SA59 are high.
BZZ3D4 (X) - Inconsistent in testing between samples.
6YKUME (X) - Data for sample SA59 are low.
CXQG39 (X) - Data for both samples are high.
7LUKDE (X) - Data for both samples are high.

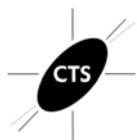
Results by Methodology (as reported by laboratory)

Test Methodology	Sample SA59 <i>Red Blend</i>			Sample SA60 <i>Red Blend</i>			Labs Incl / Rpt
	Group Mean	Btwn Lab STD	Diff from GM	Group Mean	Btwn Lab STD	Diff from GM	
Please specify method							0/1
Autotitration	5.270	0.113	-0.018	6.182	0.143	-0.004	70/74
Manual Titration	5.365	0.086	0.077	6.234	0.119	0.048	5/6
FTIR	5.382	0.127	0.094	6.188	0.161	0.002	9/10
Segmented Flow Analyzer							0/1

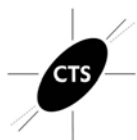


Analysis 904
Titratable Acidity

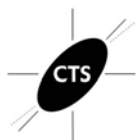


**ASEV-CTS Wine Industry Interlaboratory Testing Program****Report #080****Analysis 905
Volatile Acidity****Summer 2025**

WebCode	Data Flag	Sample SA59			Sample SA60		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2F2PND		0.4650	-0.0072	-0.25	0.7100	0.0006	0.01
2RFLRW	X	0.5700	0.0978	3.42	0.8100	0.1006	2.52
37BP9R	X	0.4750	0.0028	0.10	0.7950	0.0856	2.14
3AA27D		0.4300	-0.0422	-1.48	0.6730	-0.0364	-0.91
3UFCBG		0.4800	0.0078	0.27	0.7400	0.0306	0.76
4UD79C		0.4750	0.0028	0.10	0.7050	-0.0044	-0.11
4WMU8Q	X	0.7100	0.2378	8.31	0.9085	0.1991	4.98
6D4HUQ		0.4900	0.0178	0.62	0.7400	0.0306	0.76
6EEJHB		0.4661	-0.0061	-0.21	0.7233	0.0139	0.35
6HZ4ME		0.4900	0.0178	0.62	0.7500	0.0406	1.01
6MT6PT		0.4850	0.0128	0.45	0.7000	-0.0094	-0.24
6YKUME	X	0.5600	0.0878	3.07	0.7700	0.0606	1.51
6ZJ3QR		0.4900	0.0178	0.62	0.7100	0.0006	0.01
729NY9		0.5200	0.0478	1.67	0.7700	0.0606	1.51
73GZGB		0.4400	-0.0322	-1.13	0.6900	-0.0194	-0.49
74U84D		0.4800	0.0078	0.27	0.7200	0.0106	0.26
7KGQVT		0.5250	0.0528	1.85	0.7450	0.0356	0.89
7LUKDE		0.4800	0.0078	0.27	0.7000	-0.0094	-0.24
7ZD6X8		0.5000	0.0278	0.97	0.7550	0.0456	1.14
86MK3P	X	0.5300	0.0578	2.02	0.6250	-0.0844	-2.11
8J79CM		0.4750	0.0028	0.10	0.7450	0.0356	0.89
8KGAXL	*	0.4000	-0.0722	-2.52	0.6250	-0.0844	-2.11
8QHNJM		0.4600	-0.0122	-0.43	0.7000	-0.0094	-0.24
8RXLD9		0.4500	-0.0222	-0.78	0.6750	-0.0344	-0.86
93DX4B		0.5350	0.0628	2.20	0.7700	0.0606	1.51
9H8MXM		0.5020	0.0298	1.04	0.7375	0.0281	0.70
9TMCYD		0.4400	-0.0322	-1.13	0.6550	-0.0544	-1.36
9YVVW7		0.5000	0.0278	0.97	0.7250	0.0156	0.39
AE2GVL		0.4940	0.0218	0.76	0.7400	0.0306	0.76
AH3KM9	X	0.3500	-0.1222	-4.27	0.6200	-0.0894	-2.24
AXEX67		0.5200	0.0478	1.67	0.7600	0.0506	1.26
BDLGF3		0.4450	-0.0272	-0.95	0.6600	-0.0494	-1.24
BGKTC3		0.5250	0.0528	1.85	0.7900	0.0806	2.02
BHFBD4		0.4400	-0.0322	-1.13	0.6700	-0.0394	-0.99
BMB6B6	X	0.3700	-0.1022	-3.57	0.6800	-0.0294	-0.74

**ASEV-CTS Wine Industry Interlaboratory Testing Program****Report #080****Analysis 905
Volatile Acidity****Summer 2025**

WebCode	Data Flag	Sample SA59			Sample SA60		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
BWY2C7		0.4700	-0.0022	-0.08	0.7200	0.0106	0.26
BZZ3D4		0.4400	-0.0322	-1.13	0.6500	-0.0594	-1.49
C4UKPL		0.4645	-0.0077	-0.27	0.7410	0.0316	0.79
C9PCXH		0.4900	0.0178	0.62	0.7500	0.0406	1.01
CDK7VJ	X	0.3050	-0.1672	-5.84	0.6500	-0.0594	-1.49
CLEA22		0.4465	-0.0257	-0.90	0.6735	-0.0359	-0.90
CQ7DU7		0.4550	-0.0172	-0.60	0.7000	-0.0094	-0.24
CXQG39		0.5100	0.0378	1.32	0.7600	0.0506	1.26
D9GPXF	X	0.5950	0.1228	4.29	0.8400	0.1306	3.27
DMKUP3		0.4400	-0.0322	-1.13	0.6800	-0.0294	-0.74
E3WPH4		0.4900	0.0178	0.62	0.7150	0.0056	0.14
EAUJF2		0.4800	0.0078	0.27	0.6900	-0.0194	-0.49
ECKKJ6		0.4500	-0.0222	-0.78	0.6700	-0.0394	-0.99
EDUVAG		0.4200	-0.0522	-1.82	0.6350	-0.0744	-1.86
EGQEBE		0.5050	0.0328	1.15	0.7650	0.0556	1.39
EVA4BG		0.4650	-0.0072	-0.25	0.7000	-0.0094	-0.24
FYRJEG		0.5000	0.0278	0.97	0.7550	0.0456	1.14
FZ3KZF		0.4615	-0.0107	-0.37	0.6545	-0.0549	-1.37
H8WCLE		0.4520	-0.0202	-0.71	0.7195	0.0101	0.25
HXB7QW		0.4800	0.0078	0.27	0.6950	-0.0144	-0.36
JBPQNV		0.4950	0.0228	0.80	0.7300	0.0206	0.51
JLQG6W		0.4650	-0.0072	-0.25	0.6900	-0.0194	-0.49
K3RL8Y		0.4750	0.0028	0.10	0.7000	-0.0094	-0.24
K3UBAB		0.4800	0.0078	0.27	0.7200	0.0106	0.26
L2DDGB		0.5150	0.0428	1.50	0.8000	0.0906	2.27
L4G7DV		0.4400	-0.0322	-1.13	0.6600	-0.0494	-1.24
LCYHPB		0.4350	-0.0372	-1.30	0.6700	-0.0394	-0.99
LMWFEV		0.4200	-0.0522	-1.82	0.6700	-0.0394	-0.99
LRNPNU		0.4800	0.0078	0.27	0.7000	-0.0094	-0.24
LZ623V	X	0.4650	-0.0072	-0.25	0.7750	0.0656	1.64
MJU27W		0.4700	-0.0022	-0.08	0.7100	0.0006	0.01
MPE3LA		0.5050	0.0328	1.15	0.7900	0.0806	2.02
N8DC8R		0.4500	-0.0222	-0.78	0.6800	-0.0294	-0.74
P7C2M9		0.5150	0.0428	1.50	0.7300	0.0206	0.51
PJ4NVN		0.4750	0.0028	0.10	0.6900	-0.0194	-0.49

Analysis 905
Volatile Acidity

Summer 2025

WebCode	Data Flag	Sample SA59			Sample SA60		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
PM2ALR		0.4950	0.0228	0.80	0.7350	0.0256	0.64
PWCC8R		0.4500	-0.0222	-0.78	0.6700	-0.0394	-0.99
PXJNPU		0.4780	0.0058	0.20	0.7090	-0.0004	-0.01
PXMDR7		0.4750	0.0028	0.10	0.7100	0.0006	0.01
Q3CAVM		0.4935	0.0213	0.74	0.7310	0.0216	0.54
Q7DFBT		0.4350	-0.0372	-1.30	0.6500	-0.0594	-1.49
QMHMPU		0.4450	-0.0272	-0.95	0.7050	-0.0044	-0.11
RBXTPL		0.4700	-0.0022	-0.08	0.6800	-0.0294	-0.74
T3MQ4K		0.4850	0.0128	0.45	0.7600	0.0506	1.26
T3MTTP	X	0.3500	-0.1222	-4.27	0.6750	-0.0344	-0.86
TA6666		0.4700	-0.0022	-0.08	0.6900	-0.0194	-0.49
TAN6PL		0.4800	0.0078	0.27	0.7400	0.0306	0.76
UDNGKL		0.4150	-0.0572	-2.00	0.6650	-0.0444	-1.11
VLA24P		0.4600	-0.0122	-0.43	0.6900	-0.0194	-0.49
W6X6YG		0.4450	-0.0272	-0.95	0.6400	-0.0694	-1.74
WW33TY		0.4875	0.0153	0.53	0.7410	0.0316	0.79
XD9NWK		0.5050	0.0328	1.15	0.7500	0.0406	1.01
XE48XM		0.4250	-0.0472	-1.65	0.6200	-0.0894	-2.24
XQCRJZ		0.4650	-0.0072	-0.25	0.6800	-0.0294	-0.74
YEWJVY		0.4600	-0.0122	-0.43	0.7250	0.0156	0.39
YV799Y		0.4650	-0.0072	-0.25	0.7150	0.0056	0.14
YWGBVX		0.5200	0.0478	1.67	0.7800	0.0706	1.76
Z2QNCW		0.4550	-0.0172	-0.60	0.6900	-0.0194	-0.49

Grand Means

0.47220 g/L as acetic acid

Summary Statistics

0.70943 g/L as acetic acid

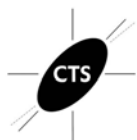
Std Dev Btwn Labs

0.02861 g/L as acetic acid

0.03998 g/L as acetic acid

Statistics based on 82 of 93 reporting participants

Wines tested: SA59: Red Blend; SA60: Red Blend

Analysis 905
Volatile Acidity**Comments on Assigned Data Flags for Test #905**

- 86MK3P (X) - Inconsistent in testing between samples. Inconsistent within the determinations of both samples.
- 2RFLRW (X) - Data for sample SA59 are high.
- LZ623V (X) - Inconsistent in testing between samples.
- BMB6B6 (X) - Data for sample SA59 are low.
- AH3KM9 (X) - Data for sample SA59 are low.
- T3MTTP (X) - Data for sample SA59 are low.
- 6YKUME (X) - Data for sample SA59 are high.
- D9GPXF (X) - Data for both samples are high.
- 4WMU8Q (X) - Data for both samples are high.
- 37BP9R (X) - Inconsistent in testing between samples.
- CDK7VJ (X) - Data for sample SA59 are low. Inconsistent within the determinations of sample SA60.

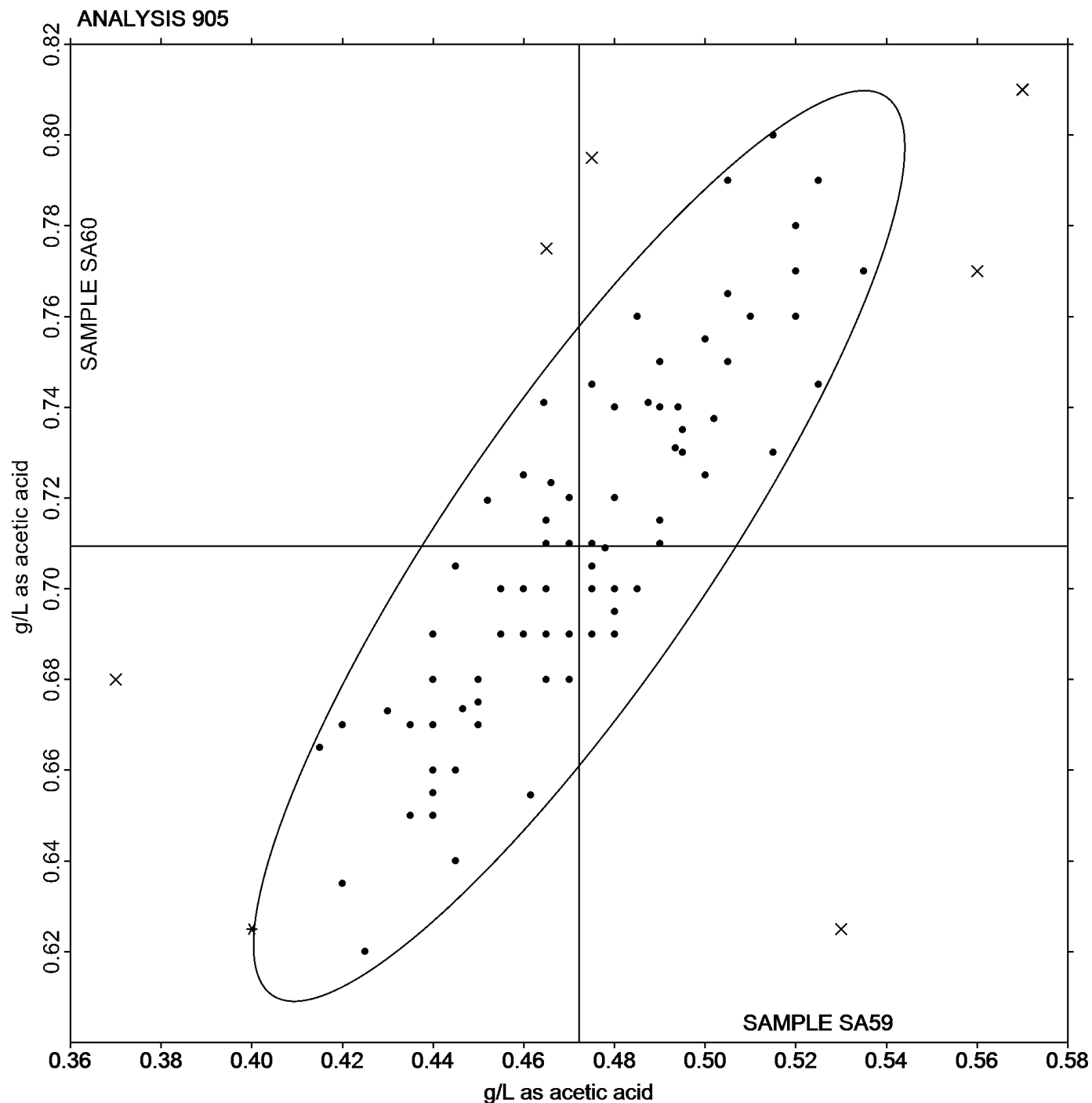
Results by Methodology (as reported by laboratory)

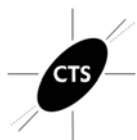
Test Methodology	Sample SA59 <i>Red Blend</i>			Sample SA60 <i>Red Blend</i>			Labs Incl / Rpt
	Group Mean	Btwn Lab STD	Diff from GM	Group Mean	Btwn Lab STD	Diff from GM	
Please specify method	0.480	0.000	0.0078	0.700	0.000	-0.0094	1/1
Cash Still method	0.505	0.021	0.0328	0.738	0.032	0.0281	2/5
Enzymatic method	0.471	0.028	-0.0012	0.707	0.038	-0.0024	69/71
GC							0/1
Colorimetric Analysis	0.494	0.000	0.0218	0.740	0.000	0.0306	1/2
Seg. Flow / Colorimetric Analyzer	0.475	0.042	0.0028	0.715	0.106	0.0056	2/2
FTIR	0.469	0.034	-0.0029	0.720	0.048	0.0110	7/11



Analysis 905
Volatile Acidity

Summer 2025



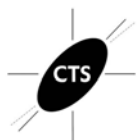


ASEV-CTS Wine Industry Interlaboratory Testing Program

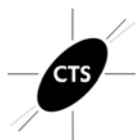
Report #080
Summer 2025

Analysis 906 Specific Gravity

WebCode	Data Flag	Sample SA59			Sample SA60		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2F2PND		0.9925	0.0000	0.10	0.9933	0.0003	0.51
2RFLRW		0.9927	0.0002	0.40	0.9931	0.0001	0.10
37BP9R		0.9927	0.0002	0.50	0.9929	-0.0001	-0.14
3AA27D	X	0.9900	-0.0025	-4.88	0.9904	-0.0026	-4.28
3UFCBG	X	0.9943	0.0018	3.59	0.9945	0.0015	2.45
4UD79C		0.9928	0.0003	0.68	0.9936	0.0006	0.92
4WMU8Q		0.9926	0.0001	0.27	0.9931	0.0002	0.26
6EEJHB		0.9934	0.0009	1.87	0.9942	0.0012	1.95
6HZ4ME		0.9926	0.0002	0.38	0.9935	0.0005	0.87
6MT6PT		0.9921	-0.0003	-0.68	0.9920	-0.0009	-1.54
6YKUME		0.9920	-0.0005	-0.90	0.9930	0.0000	0.02
73GZGB		0.9927	0.0002	0.48	0.9930	0.0000	-0.03
74U84D		0.9923	-0.0002	-0.30	0.9932	0.0002	0.26
7KGQVT		0.9923	-0.0002	-0.40	0.9928	-0.0002	-0.38
7ZD6X8		0.9932	0.0007	1.39	0.9942	0.0012	1.89
86MK3P		0.9926	0.0001	0.28	0.9932	0.0002	0.40
8QHNJM		0.9926	0.0001	0.23	0.9932	0.0003	0.41
8RXLD9	*	0.9908	-0.0017	-3.29	0.9911	-0.0019	-3.06
9H8MXM	X	0.9953	0.0028	5.60	0.9930	0.0000	0.04
9YVVW7		0.9925	0.0001	0.19	0.9928	-0.0001	-0.23
AE2GVL		0.9925	0.0001	0.19	0.9931	0.0001	0.13
AH3KM9		0.9928	0.0003	0.61	0.9933	0.0003	0.56
AXEX67		0.9928	0.0003	0.70	0.9928	-0.0002	-0.30
BDLGF3		0.9930	0.0005	1.10	0.9940	0.0010	1.64
BHFBD4		0.9935	0.0010	2.07	0.9942	0.0012	1.95
BMB6B6		0.9923	-0.0002	-0.40	0.9926	-0.0004	-0.71
BWY2C7		0.9933	0.0009	1.77	0.9941	0.0011	1.79
BZZ3D4	*	0.9910	-0.0015	-2.89	0.9917	-0.0013	-2.09
C4UKPL		0.9925	0.0001	0.18	0.9933	0.0003	0.47
C9PCXH		0.9926	0.0001	0.24	0.9932	0.0002	0.40
CDK7VJ		0.9927	0.0002	0.50	0.9932	0.0002	0.35
CLEA22		0.9930	0.0005	1.00	0.9933	0.0003	0.51
CQ7DU7		0.9925	0.0000	0.10	0.9934	0.0004	0.59
CXQG39	X	2.0000	1.0075	2,008.08	2.1000	1.1070	1,795.79
D9GPXF		0.9925	0.0000	0.10	0.9931	0.0001	0.18

**ASEV-CTS Wine Industry Interlaboratory Testing Program****Report #080****Analysis 906
Specific Gravity****Summer 2025**

WebCode	Data Flag	Sample SA59			Sample SA60		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
E3WPH4		0.9926	0.0001	0.30	0.9938	0.0008	1.32
EAUJF2		0.9926	0.0001	0.22	0.9928	-0.0002	-0.34
ECKKJ6		0.9925	0.0000	0.10	0.9930	0.0000	0.02
EDUVAG	*	0.9908	-0.0017	-3.29	0.9913	-0.0017	-2.74
EGQEBE		0.9926	0.0001	0.30	0.9928	-0.0002	-0.30
EVA4BG		0.9918	-0.0006	-1.24	0.9918	-0.0012	-1.90
FYRJEG		0.9926	0.0001	0.20	0.9932	0.0002	0.35
FZ3KZF		0.9927	0.0002	0.43	0.9934	0.0004	0.59
H8WCLE		0.9926	0.0001	0.30	0.9936	0.0006	0.99
HXB7QW	X	0.9907	-0.0018	-3.59	0.9908	-0.0022	-3.55
JBPQNV		0.9922	-0.0003	-0.50	0.9929	-0.0001	-0.14
JLQG6W		0.9930	0.0005	1.10	0.9933	0.0003	0.51
K3RL8Y		0.9930	0.0005	1.10	0.9930	0.0000	0.02
K3UBAB		0.9924	-0.0001	-0.20	0.9928	-0.0002	-0.30
L4G7DV		0.9926	0.0001	0.26	0.9937	0.0007	1.19
LMWFEV		0.9922	-0.0002	-0.45	0.9925	-0.0005	-0.77
LRNPNU	X	0.9903	-0.0022	-4.29	0.9908	-0.0022	-3.63
LZ623V		0.9926	0.0001	0.26	0.9932	0.0002	0.40
MPE3LA		0.9926	0.0001	0.26	0.9932	0.0002	0.39
N8DC8R		0.9918	-0.0006	-1.22	0.9919	-0.0011	-1.70
P7C2M9		0.9926	0.0001	0.20	0.9928	-0.0002	-0.30
PJ4NVN		0.9929	0.0004	0.90	0.9934	0.0004	0.59
PM2ALR		0.9926	0.0001	0.21	0.9932	0.0002	0.40
PWCC8R		0.9926	0.0001	0.24	0.9929	-0.0001	-0.21
PXJNPU		0.9921	-0.0004	-0.70	0.9923	-0.0007	-1.11
PXMDR7		0.9931	0.0006	1.20	0.9936	0.0006	0.99
Q3CAVM	X	0.9927	0.0002	0.40	0.9922	-0.0008	-1.36
Q7DFBT		0.9926	0.0001	0.30	0.9931	0.0001	0.18
QMHMPU	X	0.9907	-0.0018	-3.49	0.9911	-0.0019	-3.06
RBXTPL		0.9926	0.0001	0.25	0.9935	0.0005	0.77
T3MQ4K		0.9925	0.0001	0.18	0.9928	-0.0001	-0.24
T3MTTP		0.9923	-0.0002	-0.40	0.9926	-0.0004	-0.71
TA6666		0.9928	0.0003	0.60	0.9928	-0.0002	-0.30
TAN6PL		0.9923	-0.0002	-0.30	0.9930	0.0000	0.02
UDNGKL		0.9923	-0.0002	-0.30	0.9929	-0.0001	-0.14



**Analysis 906
Specific Gravity**

WebCode	Data Flag	Sample SA59			Sample SA60		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
VLA24P		0.9912	-0.0013	-2.49	0.9917	-0.0013	-2.09
W6X6YG		0.9927	0.0002	0.50	0.9933	0.0003	0.51
WW33TY		0.9925	0.0001	0.19	0.9931	0.0001	0.12
XD9NWK		0.9926	0.0001	0.27	0.9934	0.0004	0.72
XE48XM		0.9925	0.0001	0.20	0.9931	0.0001	0.21
XMDGNZ		0.9926	0.0001	0.21	0.9932	0.0002	0.30
XQCRJZ		0.9923	-0.0002	-0.30	0.9926	-0.0004	-0.63
Y4XLBK		0.9913	-0.0012	-2.32	0.9918	-0.0012	-1.95
YEWJVY		0.9926	0.0002	0.38	0.9934	0.0004	0.62
YWGBVX		0.9924	-0.0001	-0.10	0.9928	-0.0002	-0.30
Z2QNCW		0.9926	0.0001	0.21	0.9932	0.0002	0.35

Grand Means

0.99245 sp gr 20/20 C

Summary Statistics

0.99299 sp gr 20/20 C

Std Dev Btwn Labs

0.00050 sp gr 20/20 C

0.00062 sp gr 20/20 C

Statistics based on 73 of 81 reporting participants

Wines tested: SA59: Red Blend; SA60: Red Blend

Comments on Assigned Data Flags for Test #906

9H8MXM (X) - Data for sample SA59 are high.

Q3CAVM (X) - Inconsistent in testing between samples.

HXB7QW (X) - Data for both samples are low.

LRNPNU (X) - Data for both samples are low.

3AA27D (X) - Data for both samples are low.

3UFCBG (X) - Data for sample SA59 are high.

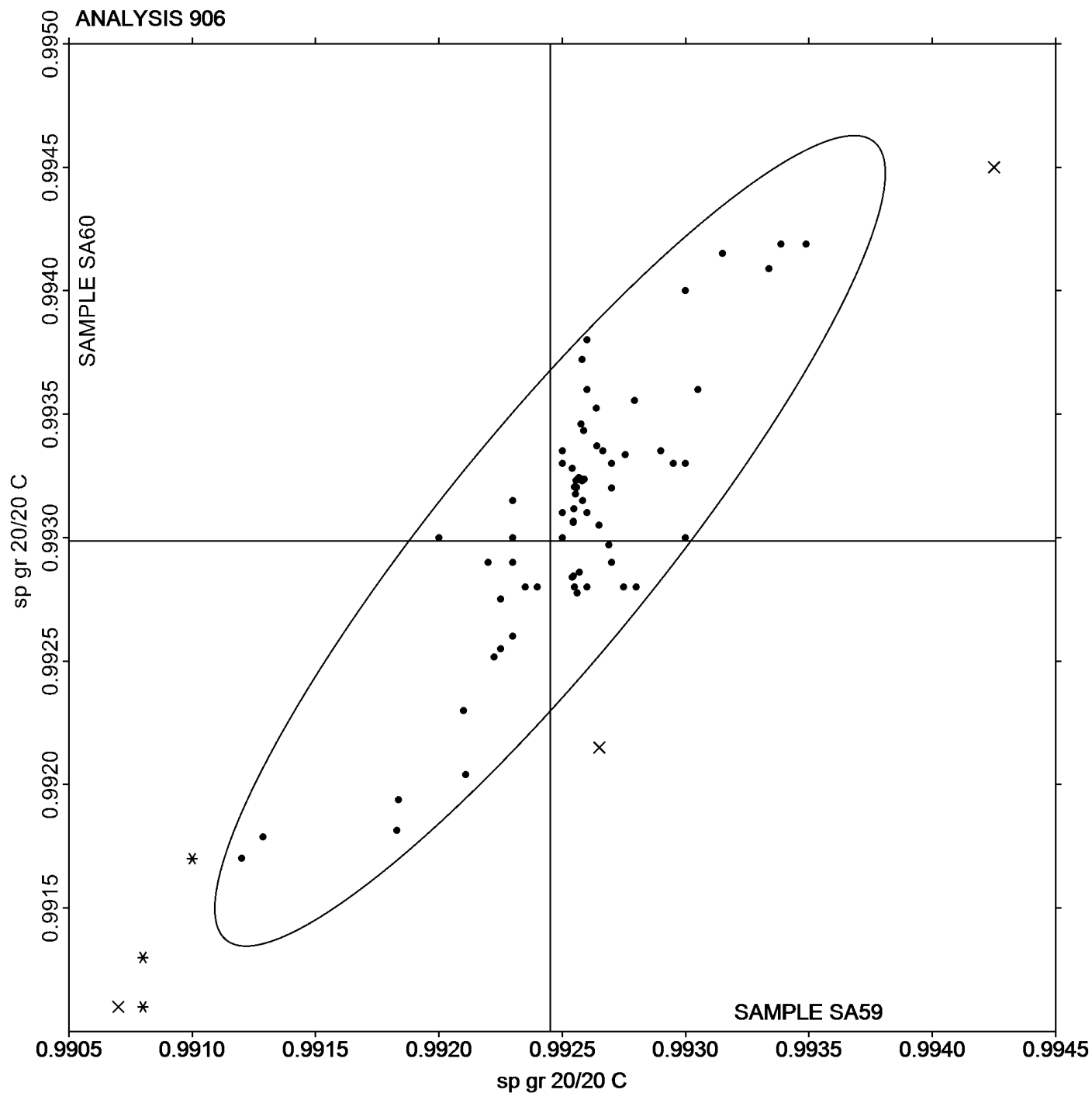
CXQG39 (X) - Extreme Data.

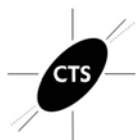
QMHPMPU (X) - Data for both samples are low.



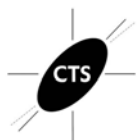
Analysis 906
Specific Gravity

Summer 2025



**ASEV-CTS Wine Industry Interlaboratory Testing Program****Report #080****Analysis 907****Summer 2025****pH**

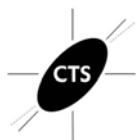
WebCode	Data Flag	Sample SA59			Sample SA60		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2F2PND		3.550	-0.021	-0.81	3.560	-0.030	-1.10
2RFLRW		3.540	-0.031	-1.18	3.560	-0.030	-1.10
37BP9R		3.530	-0.041	-1.56	3.570	-0.020	-0.74
3AA27D	X	3.540	-0.031	-1.18	3.605	0.015	0.52
3UFCBG		3.560	-0.011	-0.43	3.570	-0.020	-0.74
4UD79C		3.590	0.018	0.68	3.613	0.023	0.81
6D4HUQ		3.545	-0.026	-1.00	3.555	-0.035	-1.28
6EEJHB		3.560	-0.011	-0.43	3.585	-0.005	-0.20
6HZ4ME		3.560	-0.011	-0.43	3.575	-0.015	-0.56
6MT6PT		3.530	-0.041	-1.56	3.555	-0.035	-1.28
6YKUME		3.610	0.039	1.45	3.620	0.030	1.06
6ZJ3QR		3.565	-0.006	-0.24	3.585	-0.005	-0.20
729NY9		3.580	0.009	0.32	3.610	0.020	0.70
73GZGB		3.550	-0.021	-0.81	3.580	-0.010	-0.38
74U84D		3.600	0.029	1.07	3.615	0.025	0.88
7KGQVT		3.525	-0.046	-1.75	3.555	-0.035	-1.28
7LUKDE		3.550	-0.021	-0.81	3.590	0.000	-0.02
7ZD6X8		3.560	-0.011	-0.43	3.600	0.010	0.34
86MK3P		3.610	0.039	1.45	3.635	0.045	1.60
8J79CM		3.580	0.009	0.32	3.610	0.020	0.70
8KGAXL		3.555	-0.016	-0.62	3.580	-0.010	-0.38
8QHNJM		3.525	-0.046	-1.75	3.550	-0.040	-1.46
8RXLD9		3.605	0.034	1.26	3.645	0.055	1.96
93DX4B		3.580	0.009	0.32	3.600	0.010	0.34
9H8MXM		3.576	0.005	0.17	3.589	-0.002	-0.07
9TMCYD		3.610	0.039	1.45	3.635	0.045	1.60
9YV VW7		3.585	0.014	0.51	3.590	0.000	-0.02
AE2GVL		3.587	0.015	0.57	3.600	0.009	0.33
AH3KM9		3.565	-0.006	-0.24	3.590	0.000	-0.02
AXEX67		3.550	-0.021	-0.81	3.545	-0.045	-1.64
BDLGF3		3.590	0.019	0.70	3.630	0.040	1.42
BGKTC3	X	3.505	-0.066	-2.50	3.585	-0.005	-0.20
BHFBD4		3.600	0.029	1.07	3.620	0.030	1.06
BMB6B6		3.560	-0.011	-0.43	3.570	-0.020	-0.74
BWY2C7		3.560	-0.011	-0.43	3.565	-0.025	-0.92



ASEV-CTS Wine Industry Interlaboratory Testing Program
Analysis 907
pH

Report #080
Summer 2025

WebCode	Data Flag	Sample SA59			Sample SA60		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
BZZ3D4		3.580	0.009	0.32	3.570	-0.020	-0.74
C4UKPL		3.590	0.019	0.70	3.610	0.020	0.70
C9PCXH		3.575	0.004	0.13	3.590	0.000	-0.02
CDK7VJ		3.545	-0.026	-1.00	3.560	-0.030	-1.10
CLEA22		3.573	0.001	0.04	3.589	-0.001	-0.05
CQ7DU7		3.565	-0.006	-0.24	3.585	-0.005	-0.20
CXQG39		3.580	0.009	0.32	3.595	0.005	0.16
D9GPXF		3.630	0.059	2.20	3.650	0.060	2.14
DMKUP3		3.610	0.039	1.45	3.630	0.040	1.42
E3WPH4		3.530	-0.041	-1.56	3.570	-0.020	-0.74
EAUJF2	*	3.555	-0.016	-0.62	3.540	-0.050	-1.82
ECKKJ6	*	3.517	-0.055	-2.07	3.521	-0.069	-2.50
EDUVAG		3.570	-0.001	-0.05	3.600	0.010	0.34
EGQEBE		3.530	-0.041	-1.56	3.560	-0.030	-1.10
EVA4BG		3.570	-0.001	-0.05	3.570	-0.020	-0.74
FYRJEG		3.575	0.004	0.13	3.595	0.005	0.16
FZ3KZF		3.600	0.029	1.07	3.605	0.015	0.52
H8WCLE		3.590	0.019	0.70	3.630	0.040	1.42
HXB7QW		3.630	0.059	2.20	3.640	0.050	1.78
JBPQNV	X	3.555	-0.016	-0.62	3.620	0.030	1.06
JLQG6W		3.570	-0.001	-0.05	3.590	0.000	-0.02
K3RL8Y		3.585	0.014	0.51	3.590	0.000	-0.02
K3UBAB		3.585	0.014	0.51	3.595	0.005	0.16
L2DDGB	X	3.325	-0.246	-9.28	3.365	-0.225	-8.12
L4G7DV	*	3.620	0.049	1.83	3.660	0.070	2.50
LCYHPB		3.555	-0.016	-0.62	3.580	-0.010	-0.38
LMWFEV	*	3.515	-0.056	-2.13	3.560	-0.030	-1.10
LRNPNU		3.595	0.024	0.89	3.610	0.020	0.70
LZ623V		3.520	-0.051	-1.94	3.560	-0.030	-1.10
MJU27W		3.590	0.019	0.70	3.610	0.020	0.70
N8DC8R		3.550	-0.021	-0.81	3.580	-0.010	-0.38
P7C2M9		3.580	0.009	0.32	3.575	-0.015	-0.56
PJ4NVN		3.580	0.009	0.32	3.610	0.020	0.70
PM2ALR		3.550	-0.021	-0.81	3.573	-0.017	-0.63
PWCC8R	X	3.570	-0.001	-0.05	3.530	-0.060	-2.18



ASEV-CTS Wine Industry Interlaboratory Testing Program
Analysis 907
pH

Report #080
Summer 2025

WebCode	Data Flag	Sample SA59			Sample SA60		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
PXJNPU		3.585	0.014	0.51	3.595	0.005	0.16
PXMDR7		3.580	0.009	0.32	3.600	0.010	0.34
Q3CAVM		3.594	0.023	0.85	3.606	0.016	0.56
Q7DFBT		3.560	-0.011	-0.43	3.585	-0.005	-0.20
QMHMPU		3.620	0.049	1.83	3.630	0.040	1.42
RBXTPL		3.590	0.019	0.70	3.610	0.020	0.70
T3MQ4K		3.540	-0.031	-1.18	3.560	-0.030	-1.10
T3MTTP		3.560	-0.011	-0.43	3.570	-0.020	-0.74
TA6666		3.555	-0.016	-0.62	3.590	0.000	-0.02
TAN6PL		3.560	-0.011	-0.43	3.590	0.000	-0.02
UDNGKL		3.580	0.009	0.32	3.590	0.000	-0.02
VLA24P		3.600	0.029	1.07	3.605	0.015	0.52
W6X6YG	*	3.625	0.054	2.02	3.660	0.070	2.50
WW33TY		3.580	0.009	0.32	3.575	-0.015	-0.56
XD9NWK		3.560	-0.011	-0.43	3.580	-0.010	-0.38
XE48XM		3.565	-0.006	-0.24	3.585	-0.005	-0.20
XQCRJZ		3.540	-0.031	-1.18	3.535	-0.055	-2.00
Y4XLBK	X	3.570	-0.001	-0.05	3.715	0.125	4.48
YEWJVV		3.580	0.009	0.32	3.585	-0.005	-0.20
YV799Y		3.585	0.014	0.51	3.600	0.010	0.34
YWGBVX		3.580	0.009	0.32	3.595	0.005	0.16
Z2QNCW		3.555	-0.016	-0.62	3.580	-0.010	-0.38

Grand Means

3.5715 pH

Summary Statistics

3.5905 pH

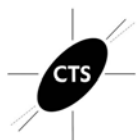
Std Dev Btwn Labs

0.0266 pH

0.0278 pH

Statistics based on 86 of 92 reporting participants

Wines tested: SA59: Red Blend; SA60: Red Blend



Comments on Assigned Data Flags for Test #907

L2DDGB (X) - Data for both samples are low. Possible Systematic Error.

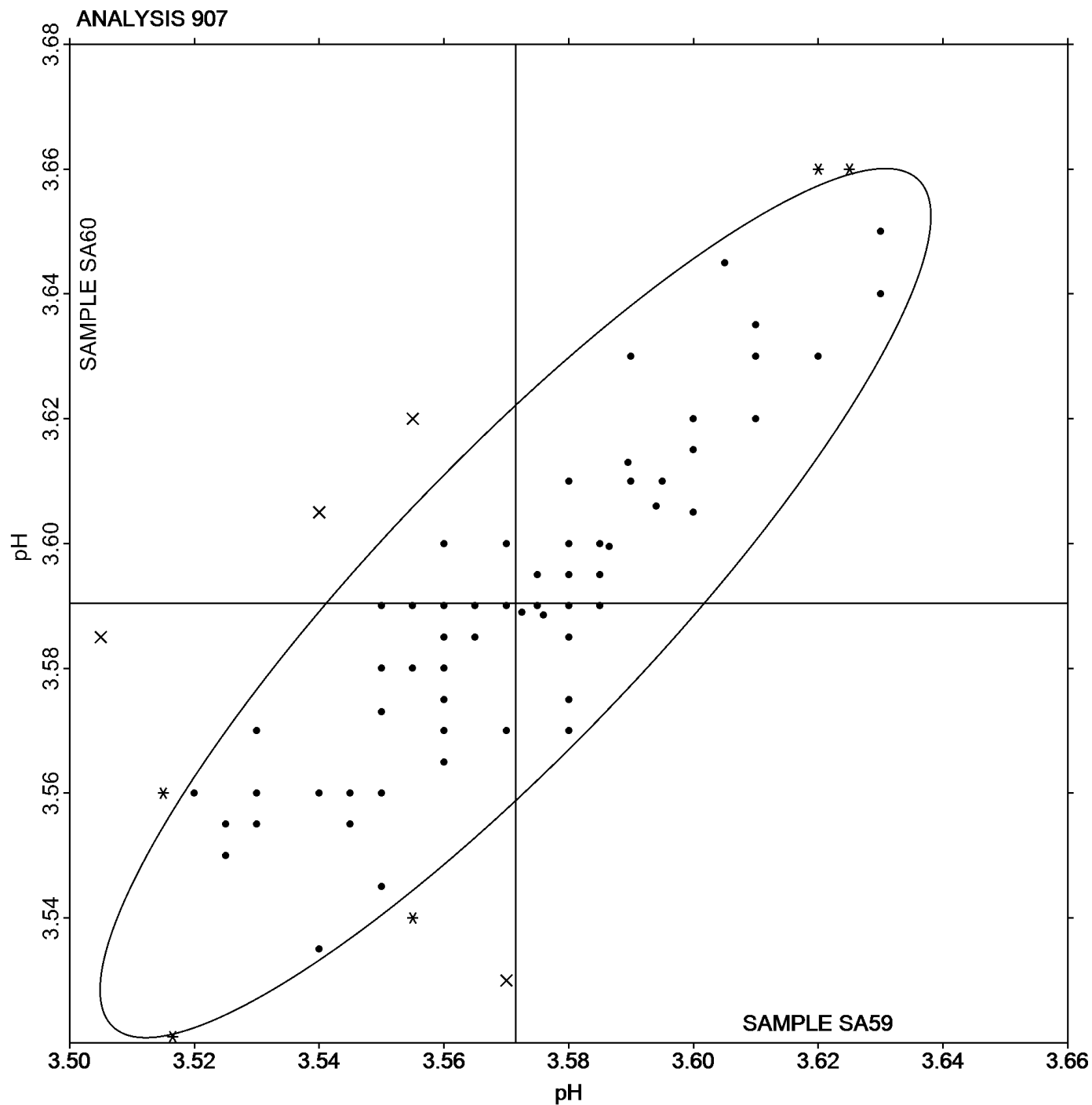
BGKTC3 (X) - Inconsistent in testing between samples.

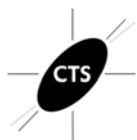
JBPQNV (X) - Inconsistent in testing between samples.

3AA27D (X) - Inconsistent in testing between samples.

PWCC8R (X) - Inconsistent in testing between samples.

Y4XLBK (X) - Inconsistent in testing, data for sample SA60 are high. Inconsistent within the determinations of sample SA59.



**ASEV-CTS Wine Industry Interlaboratory Testing Program****Report #080****Analysis 908****Summer 2025****Residual Sugar**

WebCode	Data Flag	Sample SA59			Sample SA60		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
3AA27D		4.250	1.616	1.58	4.850	2.125	1.38
6MT6PT		1.550	-1.084	-1.06	0.650	-2.075	-1.34
6YKUME		3.410	0.776	0.76	3.430	0.705	0.46
7KGQVT		2.950	0.316	0.31	3.250	0.525	0.34
AH3KM9		4.275	1.641	1.60	4.300	1.575	1.02
BDLGF3		2.600	-0.034	-0.03	2.500	-0.225	-0.15
BWY2C7		1.570	-1.064	-1.04	0.890	-1.835	-1.19
E3WPH4	*	3.000	0.366	0.36	5.000	2.275	1.47
EVA4BG	M	No data reported for this sample			53.000	50.275	32.53
FZ3KZF		1.255	-1.379	-1.34	0.700	-2.025	-1.31
L2DDGB		3.710	1.076	1.05	4.275	1.550	1.00
LMWFEV		3.750	1.116	1.09	4.350	1.625	1.05
MPE3LA		2.950	0.316	0.31	2.800	0.075	0.05
RBXTPL		1.630	-1.004	-0.98	1.040	-1.685	-1.09
T3MQ4K		2.350	-0.284	-0.28	2.600	-0.125	-0.08
XD9NWK		1.300	-1.334	-1.30	1.700	-1.025	-0.66
XQCRJZ		1.580	-1.054	-1.03	0.685	-2.040	-1.32
YEWJVV		2.650	0.016	0.02	3.300	0.575	0.37

Grand Means

2.6341 g/L

Summary Statistics

2.7247 g/L

Std Dev Btwn Labs

1.0257 g/L

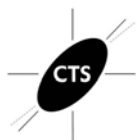
1.5455 g/L

Statistics based on 17 of 18 reporting participants

Wines tested: SA59: Red Blend; SA60: Red Blend

Comments on Assigned Data Flags for Test #908

EVA4BG (M) - Participant did not submit data for sample SA59.



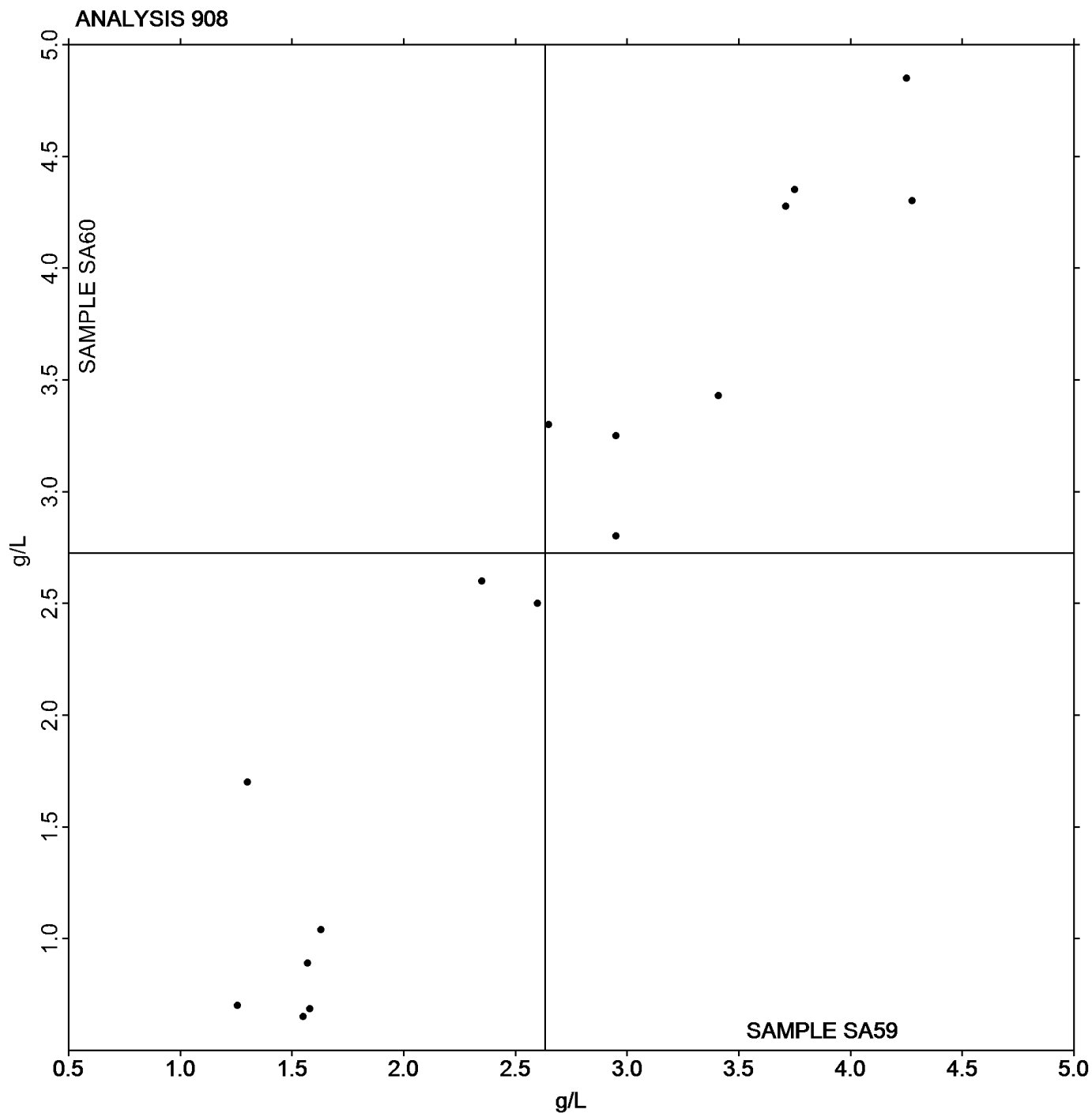
Results by Methodology (as reported by laboratory)

Test Methodology	Sample SA59 <i>Red Blend</i>			Sample SA60 <i>Red 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
Cu Reduction Method	3.562	0.651	0.928	4.243	0.787	1.519	3/3
Segmented Flow	2.950	0.000	0.316	2.800	0.000	0.075	1/1
FTIR	2.759	0.842	0.124	3.139	0.963	0.415	7/7
Other	1.973	1.124	-0.662	1.469	1.663	-1.256	6/6

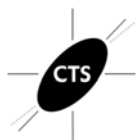


Analysis 908
Residual Sugar

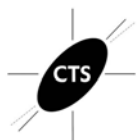
Summer 2025



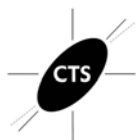
If fewer than 20 laboratories are included in an analysis, a control ellipse will not be drawn on the two-sample plot.

**ASEV-CTS Wine Industry Interlaboratory Testing Program****Report #080****Analysis 909****Summer 2025****L-Malic Acid**

WebCode	Data Flag	Sample SA59			Sample SA60		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2F2PND	M	No data reported for this sample			0.0600	-0.0085	-0.29
2RFLRW		0.0650	0.0118	0.45	0.0765	0.0080	0.27
37BP9R	X	0.1550	0.1018	3.90	0.1050	0.0365	1.26
3UFCBG		0.0300	-0.0232	-0.89	0.0650	-0.0035	-0.12
4UD79C		0.0250	-0.0282	-1.08	0.0500	-0.0185	-0.64
6D4HUQ		0.0895	0.0363	1.39	0.1065	0.0380	1.31
6EEJHB		0.0795	0.0263	1.01	0.0971	0.0285	0.98
6HZ4ME		0.0600	0.0068	0.26	0.0755	0.0070	0.24
6MT6PT	X	0.2550	0.2018	7.73	0.2150	0.1465	5.04
6YKUME	X	0.2600	0.2068	7.93	0.0200	-0.0485	-1.67
6ZJ3QR		0.0690	0.0158	0.61	0.0805	0.0120	0.41
729NY9	*	0.0050	-0.0482	-1.85	0.0500	-0.0185	-0.64
74U84D		0.0300	-0.0232	-0.89	0.0650	-0.0035	-0.12
7KGQVT	X	0.2900	0.2368	9.08	0.2900	0.2215	7.62
7ZD6X8		0.0580	0.0048	0.18	0.0820	0.0135	0.46
86MK3P	*	0.0250	-0.0282	-1.08	0.0100	-0.0585	-2.01
8J79CM		0.0100	-0.0432	-1.65	0.0100	-0.0585	-2.01
8KGAXL		0.0655	0.0123	0.47	0.0730	0.0045	0.15
8QHNJM		0.0750	0.0218	0.84	0.0900	0.0215	0.74
8RXLD9		0.0300	-0.0232	-0.89	0.0450	-0.0235	-0.81
93DX4B	M	No data reported for this sample			0.0550	-0.0135	-0.46
9H8MXM		0.0481	-0.0051	-0.19	0.0729	0.0044	0.15
9TMCYD		0.0750	0.0218	0.84	0.0800	0.0115	0.40
9YVVW7		0.0500	-0.0032	-0.12	0.0500	-0.0185	-0.64
AE2GVL		0.0665	0.0133	0.51	0.0840	0.0155	0.53
AH3KM9		0.0100	-0.0432	-1.65	0.0200	-0.0485	-1.67
AXEX67		0.0600	0.0068	0.26	0.0600	-0.0085	-0.29
BDLGF3		0.0300	-0.0232	-0.89	0.0750	0.0065	0.22
BGKTC3		0.0570	0.0038	0.15	0.0610	-0.0075	-0.26
BHFBD4		0.0350	-0.0182	-0.70	0.0400	-0.0285	-0.98
BMB6B6		0.0050	-0.0482	-1.85	0.0400	-0.0285	-0.98
BWY2C7		0.0650	0.0118	0.45	0.0800	0.0115	0.40
C4UKPL		0.0735	0.0203	0.78	0.1065	0.0380	1.31
C9PCXH		0.0590	0.0058	0.22	0.0790	0.0105	0.36
CDK7VJ		0.0835	0.0303	1.16	0.1010	0.0325	1.12

**ASEV-CTS Wine Industry Interlaboratory Testing Program****Report #080****Analysis 909****Summer 2025****L-Malic Acid**

WebCode	Data Flag	Sample SA59			Sample SA60		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
CLEA22		0.0535	0.0003	0.01	0.0800	0.0115	0.40
CQ7DU7		0.0700	0.0168	0.64	0.0850	0.0165	0.57
D9GPXF	X	0.3300	0.2768	10.61	0.3500	0.2815	9.68
DMKUP3		0.0200	-0.0332	-1.27	0.0300	-0.0385	-1.32
E3WPH4	X	0.1900	0.1368	5.24	0.2350	0.1665	5.73
EAUJF2	X	0.0600	0.0068	0.26	0.0300	-0.0385	-1.32
ECKKJ6		0.0300	-0.0232	-0.89	0.0500	-0.0185	-0.64
EDUVAG		0.0700	0.0168	0.64	0.1050	0.0365	1.26
EGQEBE		0.0450	-0.0082	-0.31	0.0700	0.0015	0.05
EVA4BG		0.0020	-0.0512	-1.96	0.0014	-0.0671	-2.31
FYRJEG		0.0600	0.0068	0.26	0.0650	-0.0035	-0.12
FZ3KZF		0.0500	-0.0032	-0.12	0.0650	-0.0035	-0.12
H8WCLE		0.0670	0.0138	0.53	0.0905	0.0220	0.76
HXB7QW	X	0.2100	0.1568	6.01	0.2150	0.1465	5.04
JBPQNV		0.0300	-0.0232	-0.89	0.0150	-0.0535	-1.84
JLQG6W	M	No data reported for this sample			0.0265	-0.0420	-1.44
K3RL8Y		0.0300	-0.0232	-0.89	0.0300	-0.0385	-1.32
K3UBAB		0.0800	0.0268	1.03	0.1050	0.0365	1.26
LCYHPB		0.0150	-0.0382	-1.46	0.0300	-0.0385	-1.32
LMWFEV	X	0.3250	0.2718	10.42	0.2000	0.1315	4.52
LRNPNU		0.0300	-0.0232	-0.89	0.0550	-0.0135	-0.46
LZ623V		0.0400	-0.0132	-0.51	0.0600	-0.0085	-0.29
MJU27W		0.0600	0.0068	0.26	0.0800	0.0115	0.40
N8DC8R		0.0550	0.0018	0.07	0.0650	-0.0035	-0.12
P7C2M9		0.0300	-0.0232	-0.89	0.0340	-0.0345	-1.19
PJ4NVN		0.0150	-0.0382	-1.46	0.0400	-0.0285	-0.98
PXJNPU		0.0370	-0.0162	-0.62	0.0506	-0.0180	-0.62
PXMDR7	X	0.0250	-0.0282	-1.08	0.0900	0.0215	0.74
Q3CAVM		0.0445	-0.0087	-0.33	0.0705	0.0020	0.07
Q7DFBT		0.0850	0.0318	1.22	0.1000	0.0315	1.08
QMHMPU	M	No data reported for this sample			0.0200	-0.0485	-1.67
RBXTPL		0.0600	0.0068	0.26	0.0500	-0.0185	-0.64
T3MQ4K		0.0700	0.0168	0.64	0.0800	0.0115	0.40
T3MTTP		0.1000	0.0468	1.79	0.1000	0.0315	1.08
TA6666		0.1050	0.0518	1.99	0.1350	0.0665	2.29



WebCode	Data Flag	Sample SA59			Sample SA60		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
TAN6PL		0.0680	0.0148	0.57	0.0755	0.0070	0.24
UDNGKL	*	0.1200	0.0668	2.56	0.1400	0.0715	2.46
VLA24P		0.0750	0.0218	0.84	0.0850	0.0165	0.57
W6X6YG		0.0920	0.0388	1.49	0.1175	0.0490	1.69
XD9NCW		0.0900	0.0368	1.41	0.0950	0.0265	0.91
XQCRJZ		0.0720	0.0188	0.72	0.0760	0.0075	0.26
YEWJVV		0.0350	-0.0182	-0.70	0.0300	-0.0385	-1.32
YV799Y		0.0600	0.0068	0.26	0.0900	0.0215	0.74
YWGBVX		0.0550	0.0018	0.07	0.0650	-0.0035	-0.12
Z2QNCW		0.0550	0.0018	0.07	0.0800	0.0115	0.40

Grand Means

0.05318 g/L

Summary Statistics

0.06851 g/L

Std Dev Btwn Labs

0.02610 g/L

0.02907 g/L

Statistics based on 66 of 80 reporting participants

Wines tested: SA59: Red Blend; SA60: Red Blend

Comments on Assigned Data Flags for Test #909

D9GPXF (X) - Data for both samples are high.

PXMDR7 (X) - Inconsistent in testing between samples.

37BP9R (X) - Inconsistent in testing, data for sample SA59 are high.

7KGQVT (X) - Data for both samples are high.

6MT6PT (X) - Data for both samples are high.

HXB7QW (X) - Data for both samples are high. Inconsistent within the determinations of sample SA60.

2F2PND (M) - Participant did not submit data for sample SA59.

JLQG6W (M) - Participant did not submit data for sample SA59.

EAUJF2 (X) - Inconsistent in testing between samples.

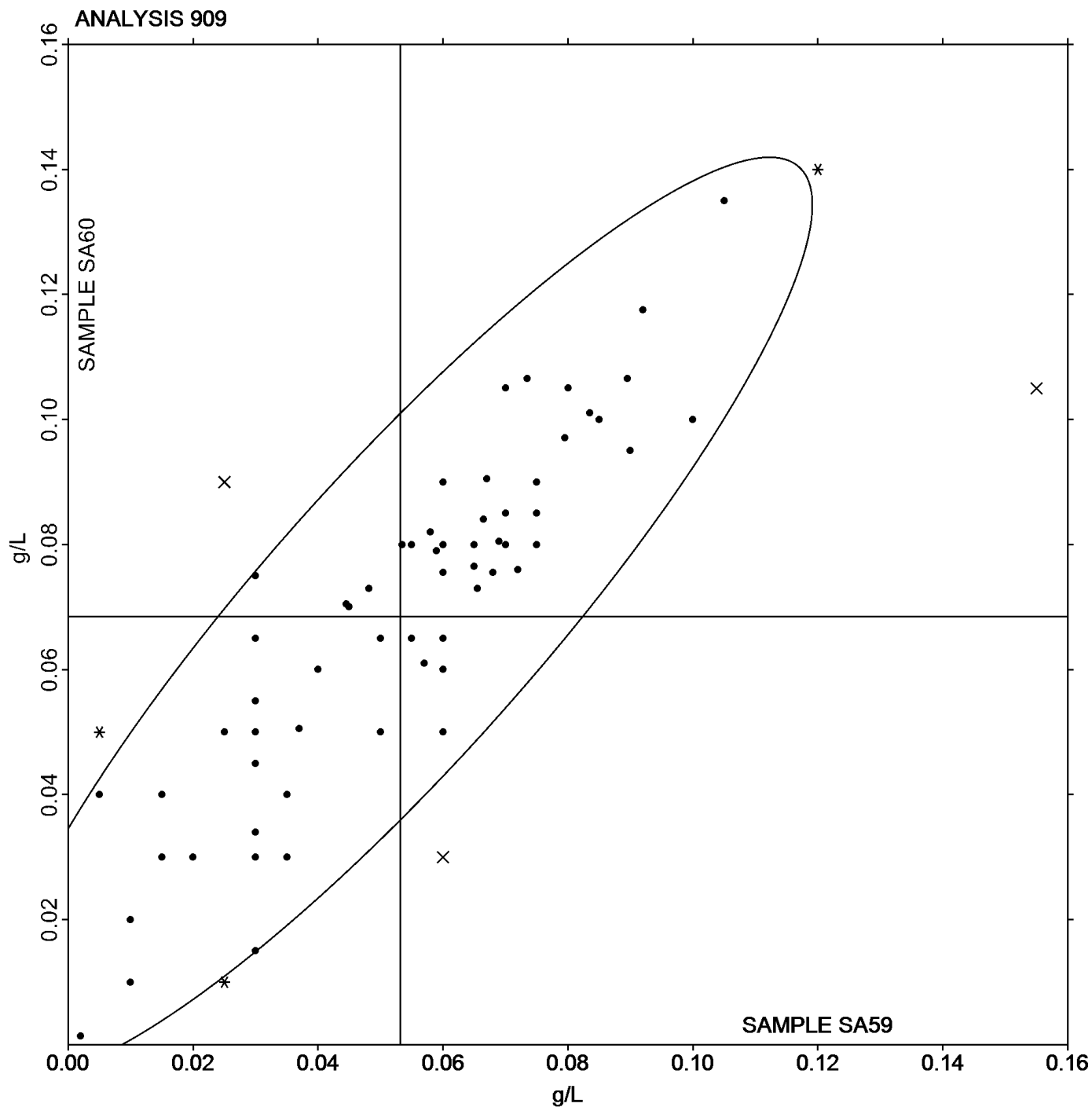
E3WPH4 (X) - Data for both samples are high. Inconsistent within the determinations of sample SA60.

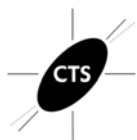
LMWFEV (X) - Data for both samples are high.

93DX4B (M) - Participant did not submit data for sample SA59.

6YKUME (X) - Data for sample SA59 are high.

QMHMPU (M) - Participant did not submit data for sample SA59.



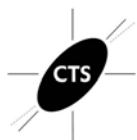


ASEV-CTS Wine Industry Interlaboratory Testing Program

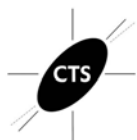
Report #080
Summer 2025

Analysis 910 Glucose + Fructose

WebCode	Data Flag	Sample SA59			Sample SA60		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2F2PND		1.475	-0.104	-1.08	0.9050	0.0667	0.43
2RFLRW		1.700	0.121	1.26	0.9000	0.0617	0.39
37BP9R	X	1.900	0.321	3.34	2.1000	1.2617	8.07
3AA27D	X	1.900	0.321	3.34	2.2500	1.4117	9.03
3UFCBG		1.530	-0.049	-0.50	0.8100	-0.0283	-0.18
4UD79C		1.610	0.031	0.33	0.9200	0.0817	0.52
6D4HUQ		1.650	0.071	0.74	0.9000	0.0617	0.39
6EEJHB		1.677	0.098	1.02	1.0740	0.2357	1.51
6HZ4ME		1.650	0.071	0.74	1.0000	0.1617	1.03
6MT6PT	X	1.490	-0.089	-0.92	1.7900	0.9517	6.09
6YKUME		1.620	0.041	0.43	0.9300	0.0917	0.59
6ZJ3QR		1.600	0.021	0.22	0.9000	0.0617	0.39
729NY9		1.610	0.031	0.33	1.1700	0.3317	2.12
73GZGB		1.620	0.041	0.43	0.7100	-0.1283	-0.82
74U84D		1.700	0.121	1.26	0.9500	0.1117	0.71
7KGQVT		1.550	-0.029	-0.30	0.8500	0.0117	0.07
7LUKDE		1.600	0.021	0.22	0.8500	0.0117	0.07
7ZD6X8	*	1.650	0.071	0.74	1.2500	0.4117	2.63
86MK3P		1.620	0.041	0.43	0.8300	-0.0083	-0.05
8J79CM		1.600	0.021	0.22	0.9000	0.0617	0.39
8KGAXL		1.630	0.051	0.53	0.8950	0.0567	0.36
8QHNJM		1.750	0.171	1.78	0.9500	0.1117	0.71
8RXLD9		1.580	0.001	0.01	0.6700	-0.1683	-1.08
93DX4B		1.575	-0.004	-0.04	0.7800	-0.0583	-0.37
9H8MXM		1.612	0.033	0.34	0.7945	-0.0438	-0.28
9TMCYD		1.545	-0.034	-0.35	0.8200	-0.0183	-0.12
9YV VW7		1.605	0.026	0.27	0.6900	-0.1483	-0.95
AE2GVL		1.670	0.091	0.95	0.8800	0.0417	0.27
AH3KM9		1.465	-0.114	-1.18	0.7100	-0.1283	-0.82
AXEX67		1.500	-0.079	-0.82	0.7000	-0.1383	-0.88
BDLGF3		1.500	-0.079	-0.82	1.0000	0.1617	1.03
BGKTC3		1.675	0.096	1.00	1.0850	0.2467	1.58
BHFBD4		1.565	-0.014	-0.14	1.0700	0.2317	1.48
BMB6B6	*	1.340	-0.239	-2.48	0.4950	-0.3433	-2.20
BZZ3D4		1.600	0.021	0.22	0.7000	-0.1383	-0.88

**ASEV-CTS Wine Industry Interlaboratory Testing Program****Report #080****Analysis 910****Summer 2025****Glucose + Fructose**

WebCode	Data Flag	Sample SA59			Sample SA60		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
C4UKPL	*	1.310	-0.269	-2.79	0.6300	-0.2083	-1.33
C9PCXH		1.650	0.071	0.74	0.9500	0.1117	0.71
CDK7VJ		1.463	-0.116	-1.20	0.8135	-0.0248	-0.16
CLEA22		1.695	0.116	1.21	0.7250	-0.1133	-0.72
CQ7DU7		1.600	0.021	0.22	1.0150	0.1767	1.13
CXQG39		1.600	0.021	0.22	0.8000	-0.0383	-0.24
D9GPXF		1.700	0.121	1.26	1.0500	0.2117	1.35
DMKUP3		1.400	-0.179	-1.85	0.9000	0.0617	0.39
E3WPH4	X	1.300	-0.279	-2.89	2.0000	1.1617	7.43
EAUJF2		1.635	0.056	0.59	0.6700	-0.1683	-1.08
ECKKJ6		1.490	-0.089	-0.92	0.7650	-0.0733	-0.47
EDUVAG		1.480	-0.099	-1.02	0.7700	-0.0683	-0.44
EGQEBE		1.600	0.021	0.22	0.8000	-0.0383	-0.24
EVA4BG	X	1.985	0.406	4.22	1.3600	0.5217	3.34
FYRJEG		1.715	0.136	1.42	0.9900	0.1517	0.97
H8WCLE		1.700	0.121	1.26	1.1500	0.3117	1.99
HXB7QW		1.590	0.011	0.12	0.6600	-0.1783	-1.14
JBPQNV		1.560	-0.019	-0.19	0.8100	-0.0283	-0.18
JLQG6W		1.639	0.060	0.63	0.7500	-0.0883	-0.56
K3RL8Y		1.565	-0.014	-0.14	0.8250	-0.0133	-0.08
K3UBAB		1.595	0.016	0.17	0.8400	0.0017	0.01
L4G7DV		1.660	0.081	0.85	0.6550	-0.1833	-1.17
LCYHPB		1.565	-0.014	-0.14	0.9050	0.0667	0.43
LMWFEV	X	1.450	-0.129	-1.33	1.9000	1.0617	6.79
LRNPNU		1.560	-0.019	-0.19	0.8250	-0.0133	-0.08
LZ623V		1.500	-0.079	-0.82	0.8000	-0.0383	-0.24
MJU27W		1.600	0.021	0.22	1.0000	0.1617	1.03
MPE3LA	*	1.285	-0.294	-3.05	0.6600	-0.1783	-1.14
N8DC8R		1.445	-0.134	-1.39	0.6350	-0.2033	-1.30
P7C2M9	X	2.000	0.421	4.37	1.2000	0.3617	2.31
PJ4NVN		1.650	0.071	0.74	0.7000	-0.1383	-0.88
PM2ALR	X	1.900	0.321	3.34	1.2165	0.3782	2.42
PWCC8R		1.400	-0.179	-1.85	0.6000	-0.2383	-1.52
PXJNPU		1.595	0.016	0.17	0.6840	-0.1543	-0.99
PXMDR7		1.600	0.021	0.22	0.8000	-0.0383	-0.24

Analysis 910
Glucose + Fructose

WebCode	Data Flag	Sample SA59			Sample SA60		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
Q3CAVM		1.650	0.071	0.74	0.8150	-0.0233	-0.15
Q7DFBT		1.590	0.011	0.12	0.8650	0.0267	0.17
QMHMPU		1.555	-0.024	-0.24	0.7750	-0.0633	-0.40
RBXTPL		1.630	0.051	0.53	1.0400	0.2017	1.29
T3MQ4K		1.600	0.021	0.22	0.7000	-0.1383	-0.88
T3MTTP		1.400	-0.179	-1.85	0.5000	-0.3383	-2.16
TA6666		1.505	-0.074	-0.76	0.6350	-0.2033	-1.30
TAN6PL		1.600	0.021	0.22	0.9000	0.0617	0.39
UDNGKL		1.625	0.046	0.48	0.9050	0.0667	0.43
VLA24P		1.640	0.061	0.64	0.8800	0.0417	0.27
W6X6YG		1.600	0.021	0.22	0.8500	0.0117	0.07
WW33TY		1.525	-0.054	-0.56	0.7050	-0.1333	-0.85
XD9NWK		1.515	-0.064	-0.66	1.0000	0.1617	1.03
XE48XM		1.400	-0.179	-1.85	0.7000	-0.1383	-0.88
XQCRJZ		1.580	0.001	0.01	0.6850	-0.1533	-0.98
YEWJYV	*	1.800	0.221	2.30	1.3000	0.4617	2.95
YV799Y		1.515	-0.064	-0.66	0.8300	-0.0083	-0.05
YWGBVX		1.700	0.121	1.26	0.7000	-0.1383	-0.88
Z2QNCW		1.515	-0.064	-0.66	0.8500	0.0117	0.07

Grand Means

1.5786 g/L

Summary Statistics

0.83828 g/L

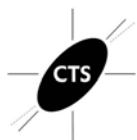
Std Dev Btwn Labs

0.0963 g/L

0.15629 g/L

Statistics based on 81 of 89 reporting participants

Wines tested: SA59: Red Blend; SA60: Red Blend



Analysis 910

Glucose + Fructose

Comments on Assigned Data Flags for Test #910

37BP9R (X) - Data for both samples are high.
EVA4BG (X) - Data for both samples are high.
P7C2M9 (X) - Data for sample SA59 are high.
6MT6PT (X) - Data for sample SA60 are high. Inconsistent within the determinations of sample SA60.
3AA27D (X) - Data for both samples are high.
PM2ALR (X) - Data for sample SA59 are high.
E3WPH4 (X) - Data for sample SA59 are low and data for sample SA60 are high.
LMWFEV (X) - Data for sample SA60 are high.

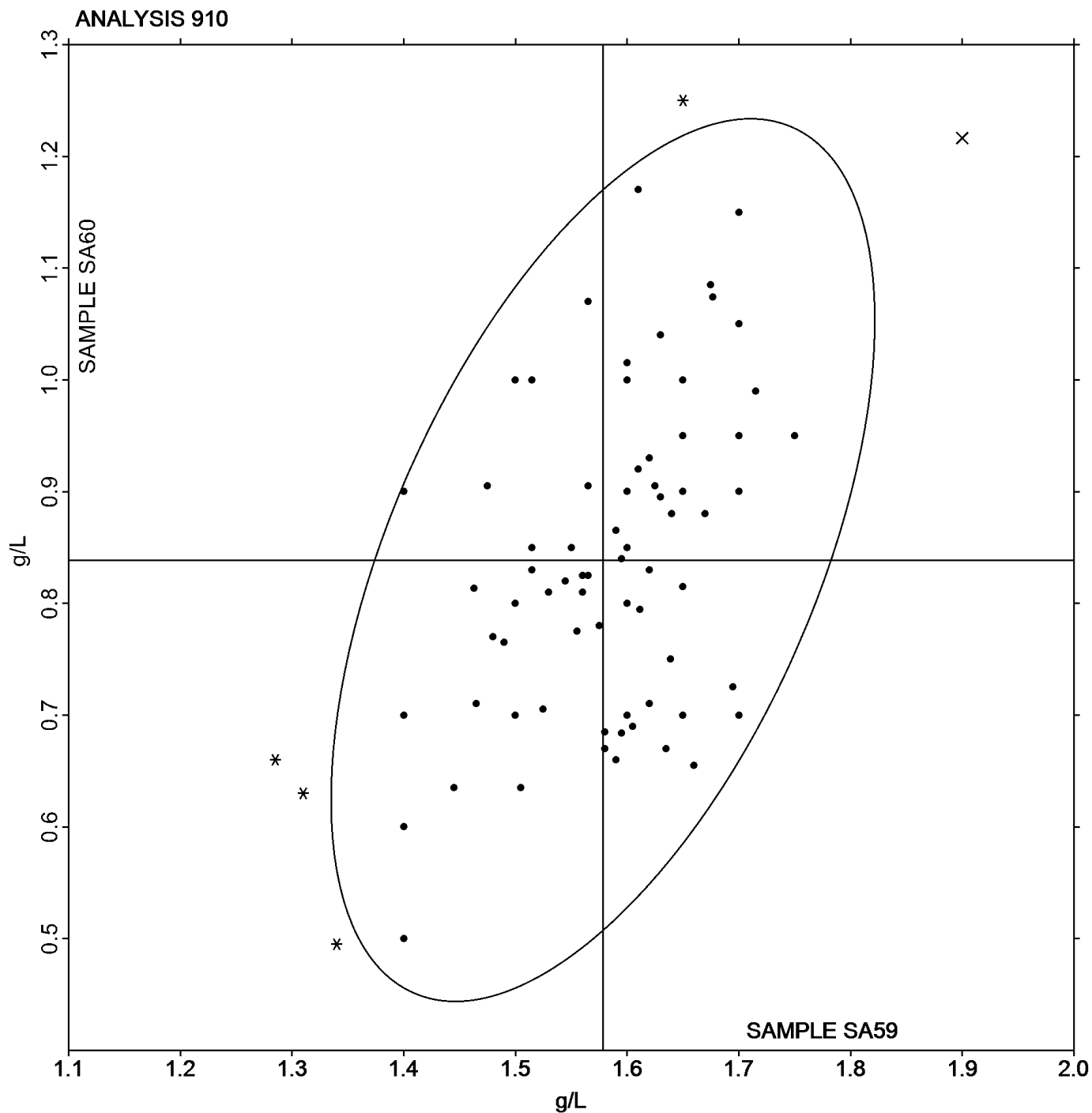
Results by Methodology (as reported by laboratory)

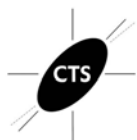
Test Methodology	Sample SA59 <i>Red Blend</i>			Sample SA60 <i>Red Blend</i>			Labs Incl / Rpt
	Group Mean	Btwn Lab STD	Diff from GM	Group Mean	Btwn Lab STD	Diff from GM	
Please specify method used	1.600	0.000	0.021	0.850	0.000	0.012	1/1
HPLC	1.285	0.000	-0.294	0.660	0.000	-0.178	1/1
Enzymatic/Spectrophotometric	1.582	0.092	0.003	0.840	0.157	0.002	79/82
FTIR							0/4
Other							0/1



Analysis 910

Glucose + Fructose



**ASEV-CTS Wine Industry Interlaboratory Testing Program****Report #080****Analysis 911
Copper Content****Summer 2025**

WebCode	Data Flag	Sample SA59			Sample SA60		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
6D4HUQ		0.0300	-0.0344	-0.79	0.1200	-0.0339	-0.40
6HZ4ME		0.0820	0.0176	0.40	0.1500	-0.0039	-0.05
7KGQVT		0.0450	-0.0194	-0.44	0.0850	-0.0689	-0.82
86MK3P		0.0800	0.0156	0.36	0.2050	0.0511	0.61
9H8MXM		0.0371	-0.0273	-0.62	0.1750	0.0210	0.25
AE2GVL		0.0300	-0.0344	-0.79	0.1800	0.0261	0.31
AH3KM9	X	0.1400	0.0756	1.73	0.7300	0.5761	6.85
C9PCXH		0.1000	0.0356	0.81	0.1150	-0.0389	-0.46
CDK7VJ	*	0.1900	0.1256	2.87	0.3900	0.2361	2.81
E3WPH4		0.0400	-0.0244	-0.56	0.1200	-0.0339	-0.40
EAUJF2	X	0.4000	0.3356	7.67	0.4000	0.2461	2.93
EDUVAG		0.0530	-0.0114	-0.26	0.0820	-0.0719	-0.86
EVA4BG		0.1000	0.0356	0.81	0.2000	0.0461	0.55
FYRJEG		0.0850	0.0206	0.47	0.1150	-0.0389	-0.46
LMWFEV		0.0400	-0.0244	-0.56	0.0650	-0.0889	-1.06
MPE3LA		0.0500	-0.0144	-0.33	0.1400	-0.0139	-0.17
PJ4NVN		0.0390	-0.0254	-0.58	0.1665	0.0126	0.15
PM2ALR		0.0335	-0.0309	-0.71	0.1075	-0.0464	-0.55
PXMDR7		0.0400	-0.0244	-0.56	0.1295	-0.0244	-0.29
T3MQ4K		0.0450	-0.0194	-0.44	0.0100	-0.1439	-1.71
XD9NWK		0.0210	-0.0434	-0.99	0.2310	0.0771	0.92
XE48XM		0.1610	0.0966	2.21	0.3164	0.1624	1.93
YEWJVY		0.0500	-0.0144	-0.33	0.1300	-0.0239	-0.28

Grand Means

0.06436 mg/L

Summary Statistics

0.15394 mg/L

Std Dev Btwn Labs

0.04375 mg/L

0.08411 mg/L

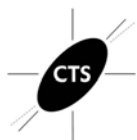
Statistics based on 21 of 23 reporting participants

Wines tested: SA59: Red Blend; SA60: Red Blend

Comments on Assigned Data Flags for Test #911

EAUJF2 (X) - Data for both samples are high.

AH3KM9 (X) - Data for sample SA60 are high. Inconsistent within the determinations of sample SA59.

Analysis 911
Copper Content

Summer 2025

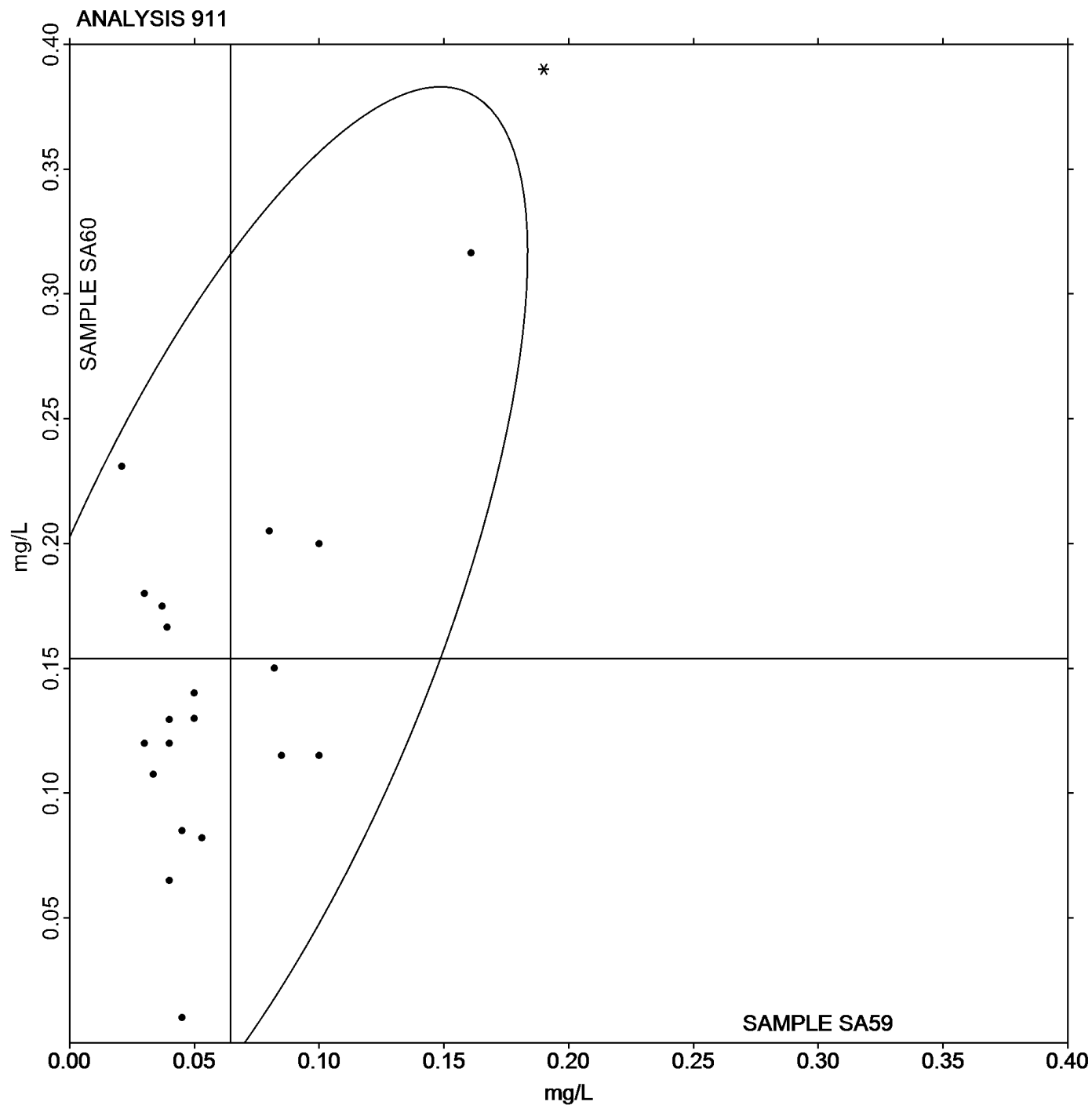
Results by Methodology (as reported by laboratory)

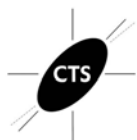
Test Methodology	Sample SA59 <i>Red Blend</i>			Sample SA60 <i>Red Blend</i>			Labs Incl / Rpt
	Group Mean	Btwn Lab STD	Diff from GM	Group Mean	Btwn Lab STD	Diff from GM	
Please specify method used	0.100	0.000	0.0356	0.200	0.000	0.0461	1/1
Atomic Absorption Spectroscopy	0.062	0.046	-0.0022	0.176	0.075	0.0216	8/8
ICP	0.048	0.020	-0.0161	0.124	0.035	-0.0302	9/9
FTIR							0/1
Other	0.085	0.000	0.0206	0.115	0.000	-0.0389	1/1
Colorimetric Analysis	0.118	0.103	0.0531	0.200	0.269	0.0461	2/3



Analysis 911
Copper Content

Summer 2025



**ASEV-CTS Wine Industry Interlaboratory Testing Program****Report #080****Summer 2025****Analysis 912****Potassium (K) Content**

WebCode	Data Flag	Sample SA59			Sample SA60		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
4WMU8Q		981.1	-37.6	-0.25	1,031.5	-27.4	-0.16
7KGQVT		1,060.0	41.3	0.27	1,125.0	66.1	0.37
9H8MXM		966.7	-52.0	-0.34	1,043.0	-15.9	-0.09
BHFB4		1,074.0	55.3	0.37	1,091.0	32.1	0.18
C9PCXH		921.5	-97.2	-0.64	988.5	-70.4	-0.40
CDK7VJ		1,113.5	94.8	0.63	1,235.0	176.1	1.00
CXQG39		1,135.5	116.8	0.77	1,230.0	171.1	0.97
E3WPH4		882.5	-136.2	-0.90	988.5	-70.4	-0.40
EAUJF2		1,043.5	24.8	0.16	1,191.0	132.1	0.75
FYRJEG		938.7	-80.1	-0.53	970.4	-88.5	-0.50
FZ3KZF		1,014.0	-4.7	-0.03	945.5	-113.4	-0.64
JLQG6W		769.5	-249.2	-1.65	718.0	-340.9	-1.93
LMWFEV		944.2	-74.6	-0.49	915.1	-143.8	-0.82
LRNPNU		1,106.0	87.3	0.58	1,178.0	119.1	0.68
MPE3LA		915.0	-103.7	-0.69	980.0	-78.9	-0.45
PJ4NVN		1,175.0	156.3	1.03	1,080.0	21.1	0.12
PM2ALR		764.5	-254.2	-1.68	787.5	-271.4	-1.54
PXMDR7		891.6	-127.2	-0.84	930.4	-128.5	-0.73
T3MQ4K		1,170.0	151.3	1.00	1,214.0	155.1	0.88
XD9NWK		1,123.1	104.4	0.69	1,266.3	207.4	1.18
XE48XM	*	1,450.0	431.3	2.85	1,500.0	441.1	2.50
YEWJYV		972.5	-46.2	-0.31	887.0	-171.9	-0.97

Grand Means

1,018.74 mg/L

Summary Statistics

1,058.89 mg/L

Std Dev Btwn Labs

151.15 mg/L

176.46 mg/L

Statistics based on 22 of 22 reporting participants

Wines tested: SA59: Red Blend; SA60: Red Blend



Analysis 912

Summer 2025

Potassium (K) Content

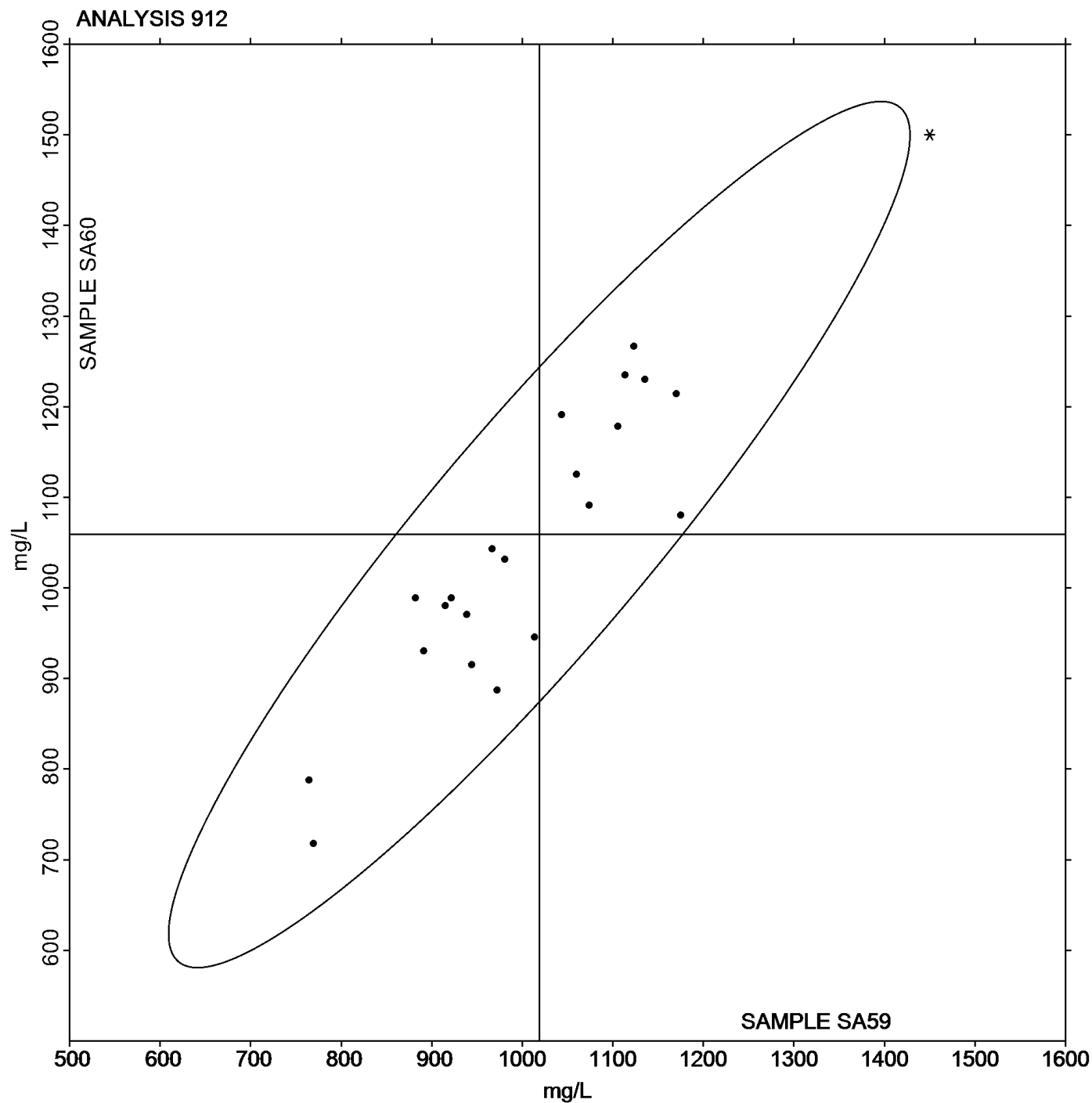
Results by Methodology (as reported by laboratory)

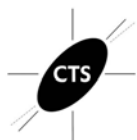
Test Methodology	Sample SA59 <i>Red Blend</i>			Sample SA60 <i>Red Blend</i>			Labs Incl / Rpt
	Group Mean	Btwn Lab STD	Diff from GM	Group Mean	Btwn Lab STD	Diff from GM	
Atomic Absorption Spectroscopy	995.567	120.951	-23.2	1,095.433	149.529	36.5	3/3
ICP	956.768	113.465	-62.0	970.714	104.089	-88.2	9/9
Other	1,119.695	176.391	101.0	1,152.483	203.571	93.6	6/6
Colorimetric Analysis	1,024.125	177.461	5.4	1,089.500	248.318	30.6	4/4



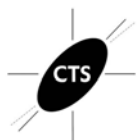
Analysis 912

Potassium (K) Content



**ASEV-CTS Wine Industry Interlaboratory Testing Program****Report #080****Summer 2025****Analysis 915
A420nm (1cm path)**

WebCode	Data Flag	Sample SA59			Sample SA60		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
37BP9R		2.020	-0.088	-0.46	3.730	-0.263	-0.67
3AA27D		2.130	0.022	0.12	3.500	-0.493	-1.26
4UD79C		1.993	-0.115	-0.61	3.965	-0.028	-0.07
6MT6PT		2.260	0.152	0.81	3.995	0.001	0.00
6YKUME	*	2.121	0.013	0.07	2.758	-1.235	-3.15
73GZGB		1.920	-0.188	-0.99	3.980	-0.013	-0.03
74U84D	X	3.700	1.592	8.44	1.710	-2.283	-5.82
7KGQVT		1.940	-0.168	-0.89	3.905	-0.088	-0.22
7LUKDE		1.863	-0.245	-1.30	3.685	-0.309	-0.79
86MK3P		2.325	0.217	1.15	4.090	0.097	0.25
8QHNJM		2.020	-0.088	-0.46	4.120	0.127	0.32
9TMCYD		2.035	-0.073	-0.39	4.048	0.055	0.14
9YV VW7		2.133	0.025	0.13	4.237	0.244	0.62
AE2GVL		2.079	-0.029	-0.15	4.308	0.314	0.80
AH3KM9		2.064	-0.044	-0.23	3.100	-0.894	-2.28
AXEX67	*	2.595	0.487	2.58	3.370	-0.623	-1.59
BDLGF3	*	2.650	0.542	2.87	4.100	0.107	0.27
BHFBD4		1.930	-0.178	-0.94	4.075	0.082	0.21
BMB6B6		2.038	-0.070	-0.37	3.875	-0.119	-0.30
BZZ3D4	X	1.900	-0.208	-1.10	1.982	-2.011	-5.13
C9PCXH		2.283	0.175	0.93	4.230	0.237	0.60
CDK7VJ		2.148	0.040	0.21	4.478	0.484	1.23
D9GPXF		1.900	-0.208	-1.10	3.750	-0.243	-0.62
DMKUP3		1.860	-0.248	-1.31	4.640	0.647	1.65
E3WPH4		1.900	-0.208	-1.10	4.860	0.867	2.21
EAUJF2		1.933	-0.175	-0.93	3.637	-0.357	-0.91
EDUVAG		2.210	0.102	0.54	4.130	0.137	0.35
EVA4BG		2.170	0.062	0.33	4.184	0.191	0.49
FYRJEG		2.127	0.019	0.10	3.583	-0.411	-1.05
FZ3KZF		2.053	-0.055	-0.29	3.605	-0.389	-0.99
JLQG6W		1.858	-0.250	-1.33	3.691	-0.302	-0.77
L4G7DV		2.195	0.087	0.46	4.040	0.047	0.12
LCYHPB		2.094	-0.014	-0.07	3.635	-0.358	-0.91
LMWFEV		1.961	-0.147	-0.78	4.148	0.155	0.39
PJ4NVN		2.445	0.337	1.79	4.155	0.162	0.41

**ASEV-CTS Wine Industry Interlaboratory Testing Program****Report #080****Summer 2025****Analysis 915
A420nm (1cm path)**

WebCode	Data Flag	Sample SA59			Sample SA60		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
PM2ALR		2.170	0.062	0.33	4.055	0.062	0.16
PWCC8R		1.970	-0.138	-0.73	4.740	0.747	1.90
PXJNPU		2.300	0.192	1.02	4.300	0.307	0.78
PXMDR7		2.028	-0.080	-0.42	4.185	0.192	0.49
Q3CAVM		1.905	-0.203	-1.07	3.967	-0.027	-0.07
RBXTPL		2.381	0.273	1.45	4.408	0.415	1.06
T3MQ4K		2.390	0.282	1.50	4.325	0.332	0.85
UDNGKL		1.893	-0.215	-1.14	3.857	-0.136	-0.35
XD9NWK		2.058	-0.050	-0.26	4.043	0.050	0.13
XE48XM		2.038	-0.070	-0.37	4.213	0.219	0.56
XQCRJZ		2.053	-0.055	-0.29	4.394	0.400	1.02
Y4XLBK		2.313	0.205	1.09	3.759	-0.235	-0.60
Z2QNCW		2.207	0.099	0.53	3.835	-0.158	-0.40

Grand Means

2.1077 Absorbance Units

Summary Statistics

3.9931 Absorbance Units

Std Dev Btwn Labs

0.1888 Absorbance Units

0.3923 Absorbance Units

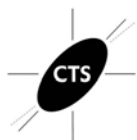
Statistics based on 46 of 48 reporting participants

Wines tested: SA59: Red Blend; SA60: Red Blend

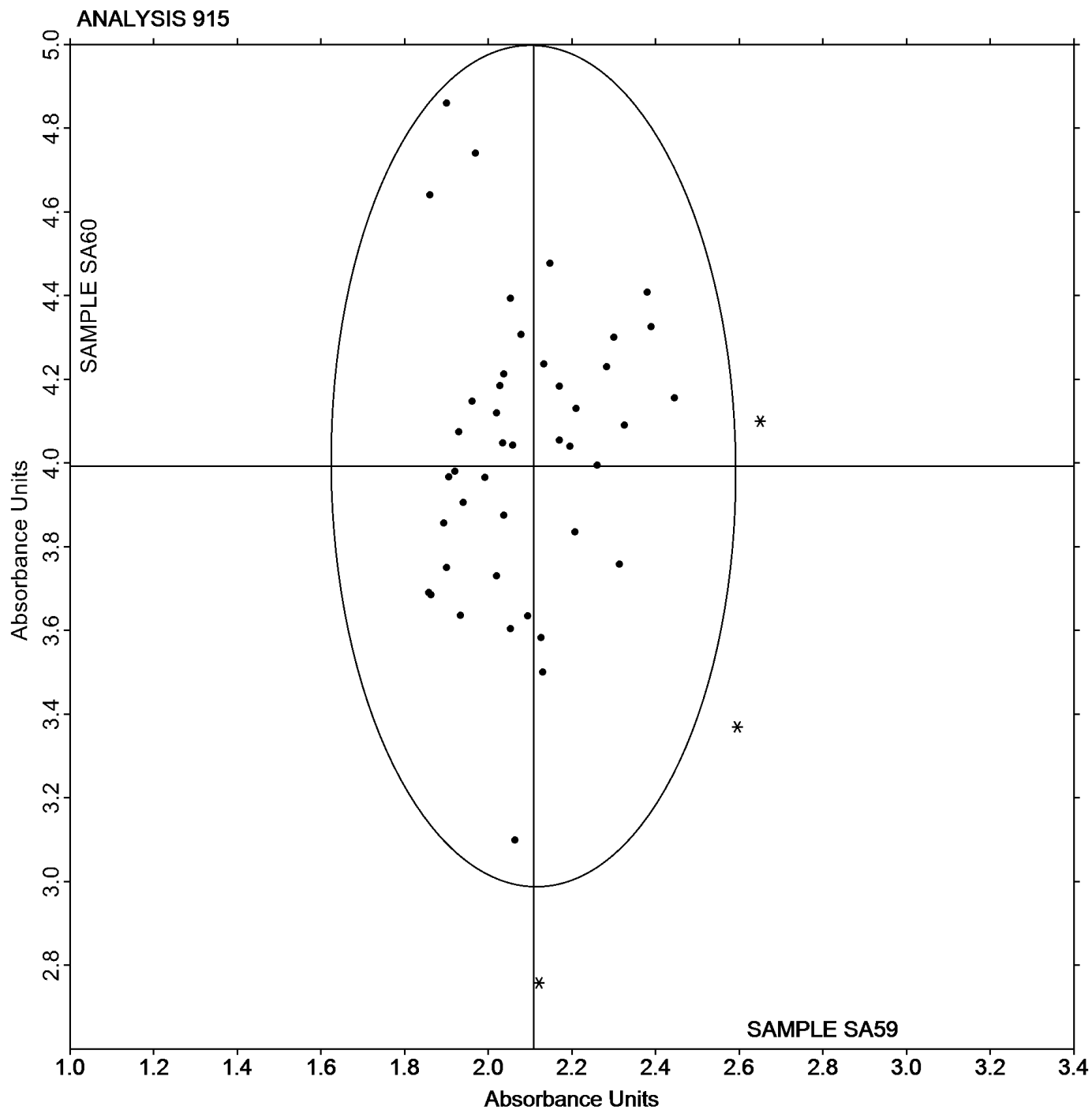
Comments on Assigned Data Flags for Test #915

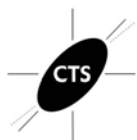
BZZ3D4 (X) - Data for sample SA60 are low.

74U84D (X) - Data for sample SA59 are high and data for sample SA60 are low. Lab may have transposed data between samples.

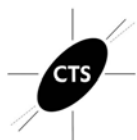


Analysis 915
A420nm (1cm path)



**ASEV-CTS Wine Industry Interlaboratory Testing Program****Report #080****Summer 2025****Analysis 916**
A520nm (1cm path)

WebCode	Data Flag	Sample SA59			Sample SA60		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
37BP9R		2.445	0.023	0.14	4.685	0.155	0.26
4UD79C		2.313	-0.110	-0.70	4.480	-0.050	-0.08
6MT6PT		2.558	0.136	0.87	5.479	0.949	1.61
6YKUME	*	2.374	-0.048	-0.31	2.698	-1.832	-3.11
73GZGB		2.355	-0.067	-0.43	4.850	0.320	0.54
74U84D	X	4.140	1.718	10.97	2.030	-2.500	-4.24
7KGQVT		2.260	-0.162	-1.04	4.465	-0.065	-0.11
7LUKDE		2.437	0.015	0.10	4.443	-0.087	-0.15
86MK3P		2.650	0.228	1.45	4.635	0.105	0.18
8QHNJM		2.320	-0.102	-0.65	4.570	0.040	0.07
9TMCYD		2.358	-0.064	-0.41	5.000	0.470	0.80
9YVVW7		2.459	0.037	0.23	4.897	0.367	0.62
AE2GVL		2.383	-0.039	-0.25	4.820	0.290	0.49
AH3KM9	*	2.200	-0.223	-1.42	2.821	-1.709	-2.90
AXEX67	X	3.110	0.688	4.39	3.280	-1.250	-2.12
BDLGF3	X	3.150	0.728	4.65	4.600	0.070	0.12
BHFBD4		2.475	0.053	0.34	4.765	0.235	0.40
BMB6B6		2.383	-0.040	-0.26	4.574	0.044	0.07
BZZ3D4	X	2.178	-0.245	-1.56	2.325	-2.205	-3.74
C9PCXH		2.587	0.164	1.05	4.790	0.260	0.44
CDK7VJ	*	2.858	0.435	2.78	5.213	0.683	1.16
D9GPXF		2.500	0.078	0.49	4.500	-0.030	-0.05
DMKUP3		2.220	-0.202	-1.29	5.080	0.550	0.93
E3WPH4		2.220	-0.202	-1.29	5.030	0.500	0.85
EAUJF2		2.241	-0.182	-1.16	3.860	-0.670	-1.14
EDUVAG		2.521	0.098	0.63	4.660	0.130	0.22
EVA4BG		2.390	-0.032	-0.21	4.788	0.258	0.44
FYRJEG		2.431	0.008	0.05	4.129	-0.401	-0.68
FZ3KZF		2.359	-0.063	-0.41	4.011	-0.519	-0.88
JLQG6W		2.389	-0.034	-0.22	4.397	-0.133	-0.23
L2DDGB	X	2.594	0.171	1.09	1.388	-3.142	-5.33
L4G7DV		2.350	-0.072	-0.46	4.430	-0.100	-0.17
LCYHPB		2.310	-0.112	-0.72	3.055	-1.475	-2.50
LMWFEV		2.246	-0.177	-1.13	4.463	-0.067	-0.11
PJ4NVN		2.800	0.378	2.41	4.845	0.315	0.53

**ASEV-CTS Wine Industry Interlaboratory Testing Program****Report #080****Summer 2025****Analysis 916
A520nm (1cm path)**

WebCode	Data Flag	Sample SA59			Sample SA60		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
PM2ALR		2.473	0.050	0.32	4.565	0.035	0.06
PWCC8R		2.280	-0.142	-0.91	5.440	0.910	1.54
PXJNPU		2.550	0.128	0.81	4.950	0.420	0.71
PXMDR7		2.366	-0.056	-0.36	4.750	0.220	0.37
Q3CAVM		2.226	-0.197	-1.26	4.525	-0.005	-0.01
RBXTPL		2.685	0.262	1.67	4.728	0.198	0.34
T3MQ4K		2.700	0.278	1.77	4.720	0.190	0.32
UDNGKL		2.344	-0.078	-0.50	4.491	-0.039	-0.07
XD9NWK		2.315	-0.108	-0.69	3.898	-0.632	-1.07
XE48XM		2.360	-0.062	-0.40	4.790	0.260	0.44
XQCRJZ		2.359	-0.063	-0.41	5.165	0.635	1.08
Y4XLBK		2.616	0.194	1.24	3.896	-0.634	-1.08
Z2QNCW		2.508	0.085	0.54	4.437	-0.093	-0.16

Grand Means

2.4225 Absorbance Units

Summary Statistics

4.5298 Absorbance Units

Std Dev Btwn Labs

0.1566 Absorbance Units

0.5896 Absorbance Units

Statistics based on 43 of 48 reporting participants

Wines tested: SA59: Red Blend; SA60: Red Blend

Comments on Assigned Data Flags for Test #916

L2DDGB (X) - Data for sample SA60 are low.

BDLGF3 (X) - Data for sample SA59 are high.

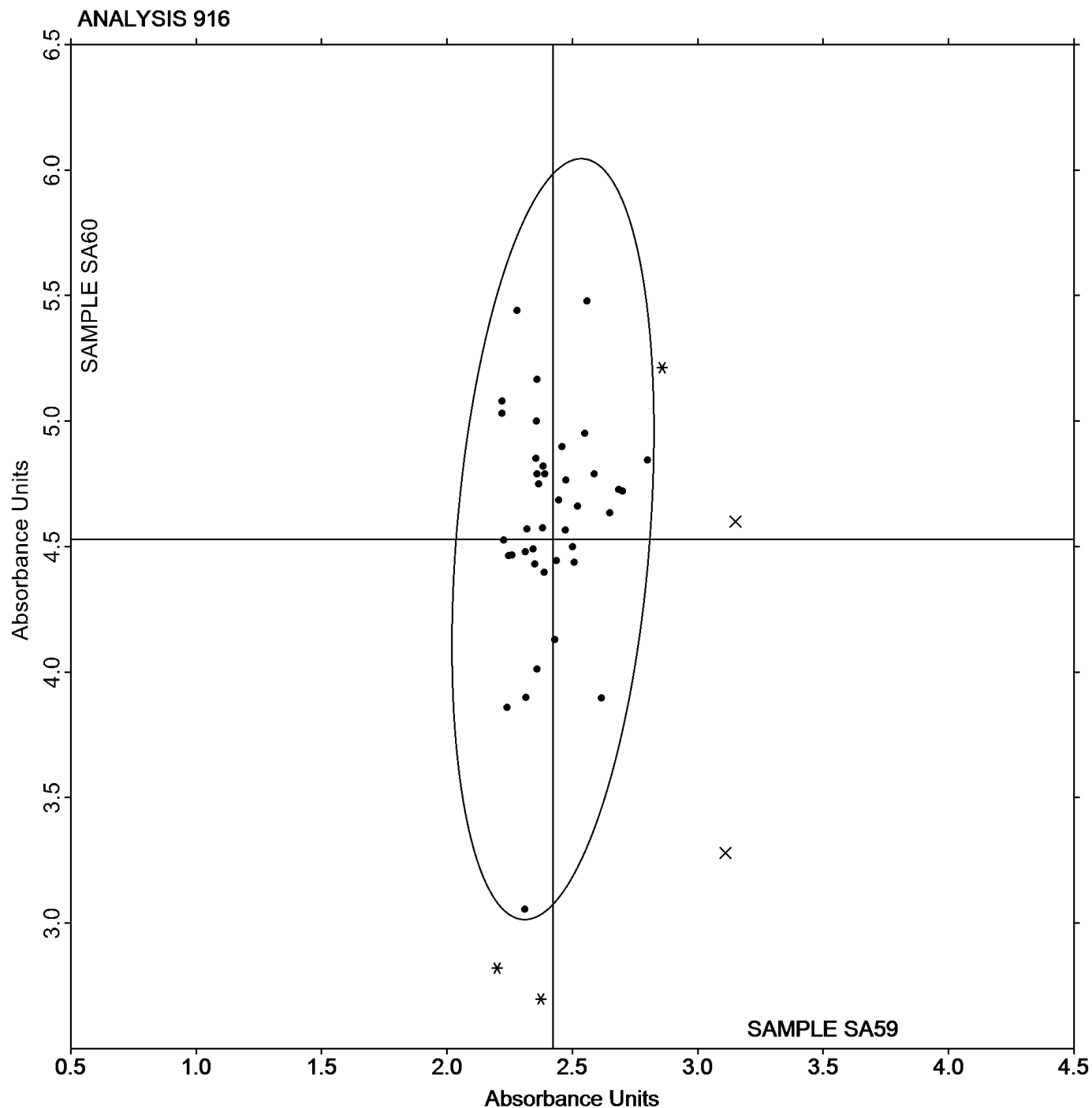
BZZ3D4 (X) - Data for sample SA60 are low.

AXEX67 (X) - Data for sample SA59 are high.

74U84D (X) - Data for sample SA59 are high and data for sample SA60 are low. Lab may have transposed data between samples.



Analysis 916
A520nm (1cm path)





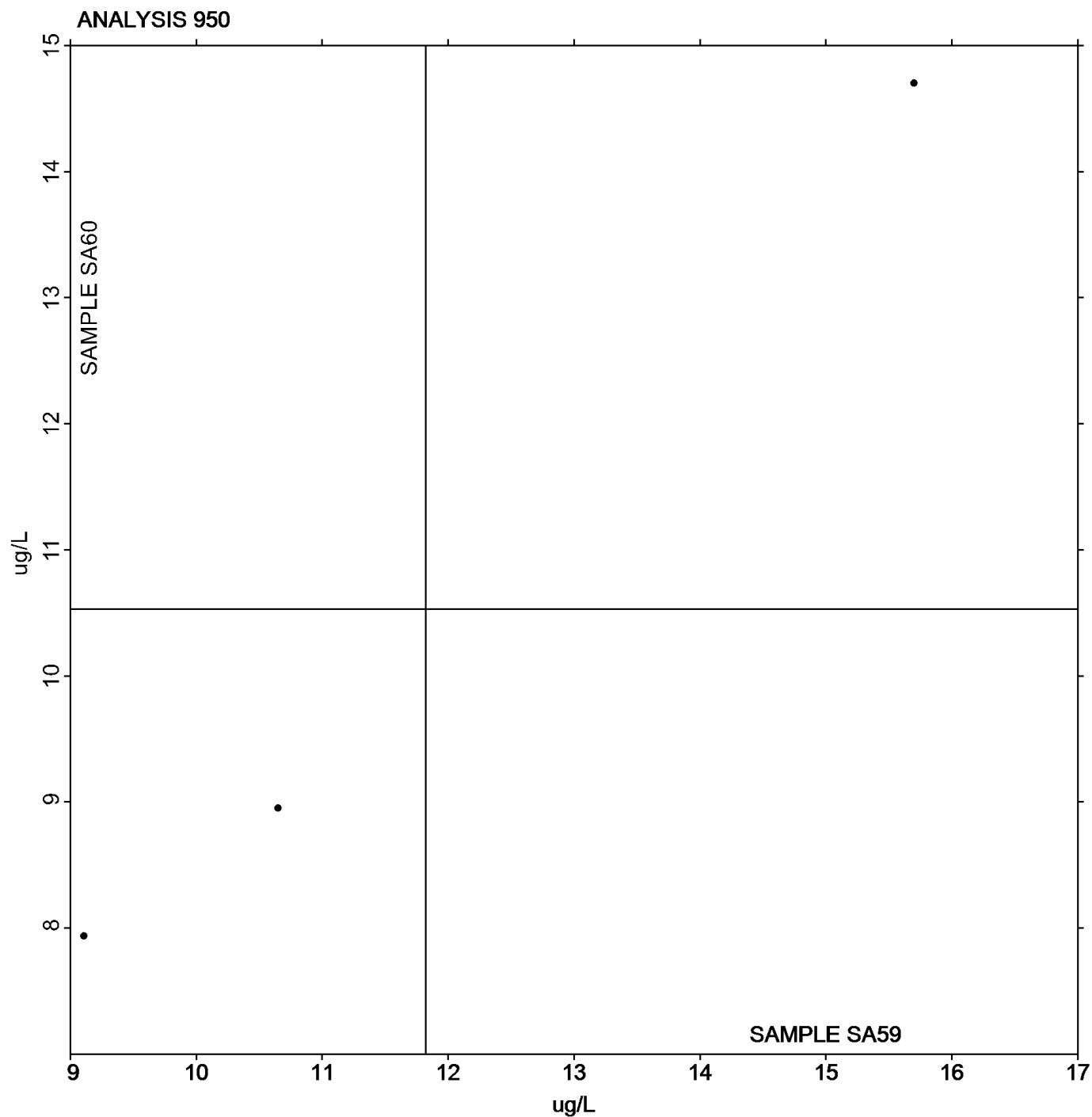
ASEV-CTS Wine Industry Interlaboratory Testing Program
Research Property 950
Research Property: Guaiacol

Report #080
Summer 2025

WebCode	Data Flag	Sample SA59			Sample SA60		
		Lab Mean	Diff from Target Value	% Diff from Target Value	Lab Mean	Diff from Target Value	% Diff from Target Value
C9PCXH		15.70	3.88	1.13	14.70	4.17	1.14
PJ4NVN		9.11	-2.71	-0.79	7.94	-2.59	-0.71
PM2ALR		10.65	-1.17	-0.34	8.95	-1.58	-0.43

Research Property Consensus Value		
Consensus Average	11.820 ug/L	10.528 ug/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 3 reporting participants.		

Wines tested: SA59: Red Blend; SA60: Red Blend



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: 4-Methylguaiacol

Report #080
Summer 2025

WebCode	Data Flag	Sample SA59			Sample SA60		
		Lab Mean	Diff from Target Value	% Diff from Target Value	Lab Mean	Diff from Target Value	% Diff from Target Value
C9PCXH		4.235	-2.682	-0.74	2.260	-3.787	-1.02
PJ4NVN		5.465	-1.452	-0.40	6.180	0.133	0.04
PM2ALR		11.050	4.133	1.14	9.700	3.653	0.98

Research Property Consensus Value

Consensus Average

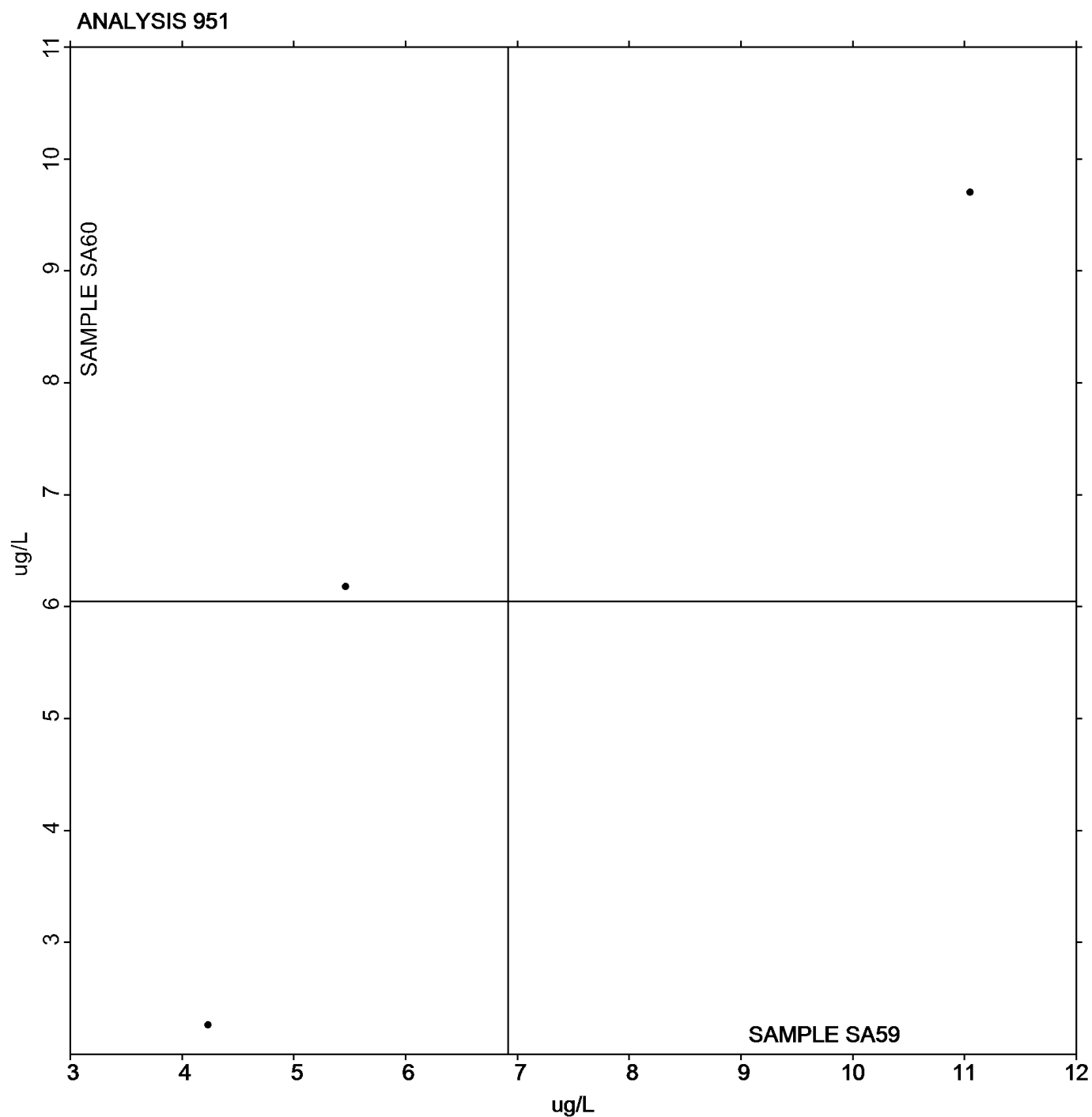
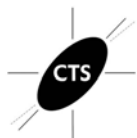
6.9167 ug/L

6.0467 ug/L

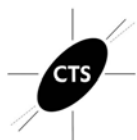
Note: Tests 950, 951 and 952, are research tests. As a result participants should use caution when evaluating data for these tests.

This consensus average is based on 3 reporting participants.

Wines tested: SA59: Red Blend; SA60: Red Blend



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



Analysis 952

Research Property: Calories

WebCode	Data Flag	Sample SA59			Sample SA60		
		Lab Mean	Diff from Target Value	% Diff from Target Value	Lab Mean	Diff from Target Value	% Diff from Target Value
2F2PND		83.55	-0.12	-0.03	91.10	0.52	0.12
7KGQVT		83.50	-0.17	-0.05	90.50	-0.08	-0.02
86MK3P	X	55.45	-28.22	-8.03	59.51	-31.07	-7.14
C9PCXH		83.80	0.13	0.04	91.10	0.52	0.12
CLEA22		81.15	-2.52	-0.72	87.92	-2.66	-0.61
E3WPH4		91.92	8.25	2.35	101.23	10.65	2.45
EAUJF2		85.14	1.47	0.42	91.06	0.48	0.11
FYRJEG		84.38	0.71	0.20	91.56	0.98	0.23
LZ623V		81.00	-2.67	-0.76	87.00	-3.58	-0.82
PJ4NVN		84.00	0.33	0.09	91.00	0.42	0.10
PM2ALR		86.90	3.23	0.92	93.33	2.75	0.63
PXMDR7		85.21	1.54	0.44	92.65	2.07	0.48
Q3CAVM		83.20	-0.47	-0.13	89.30	-1.28	-0.29
RBXTPL		78.00	-5.67	-1.62	84.00	-6.58	-1.51
T3MQ4K		78.13	-5.54	-1.58	83.99	-6.59	-1.52
XD9NWK		87.87	4.19	1.19	96.53	5.95	1.37
YEWJVV		81.00	-2.67	-0.76	87.00	-3.58	-0.82

Research Property Consensus Value

Consensus Average

83.672 kcal/100ml

90.579 kcal/100ml

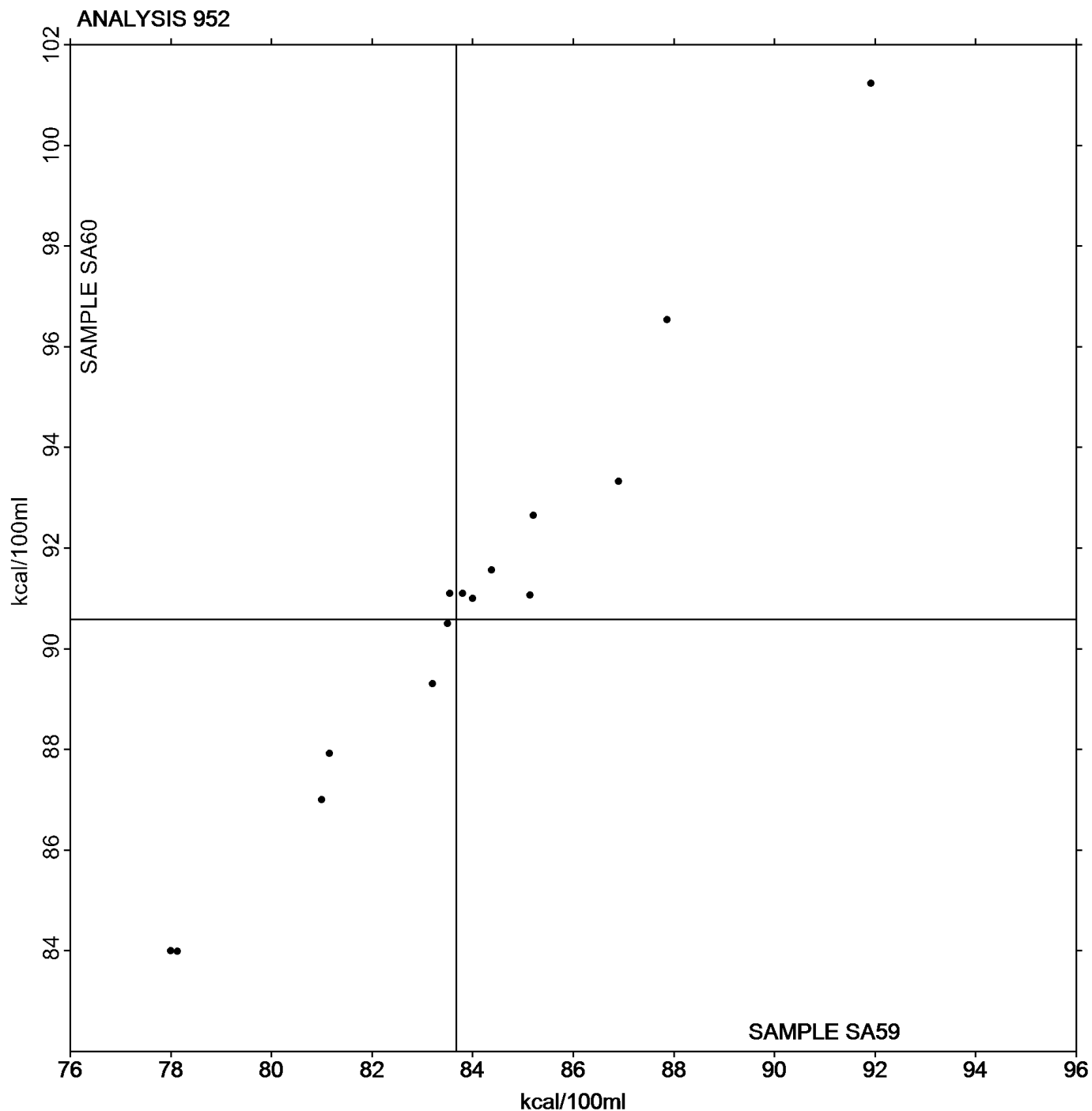
Note: Tests 950, 951 and 952, are research tests. As a result participants should use caution when evaluating data for these tests.

This consensus average is based on 16 reporting participants.

Wines tested: SA59: Red Blend; SA60: Red Blend

Comments on Assigned Data Flags for Test #952

86MK3P (X) - Data for both samples are low.



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-