

Wine Industry Interlaboratory Program

Summary Report #081 - Fall 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>Titratable 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: Citric Acid</u>
<u>951</u>	<u>Research: Iron Content</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:

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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:

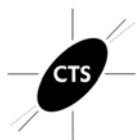
<u>DATA FLAG</u>	<u>STATISTICALLY INCLUDED/EXCLUDED</u>	<u>ACTION REQUIRED</u>
*	INCLUDED	CAUTION - Review testing procedure and monitor future results. Results fall outside 95% ellipse but within a 99% ellipse that is calculated but not drawn.
X	EXCLUDED	STOP - Immediate review of data and/or testing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

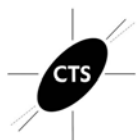
Common Problems Highlighted in Footnotes

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 #081****Fall 2025****Analysis 901****Ethanol (% of volume)**

WebCode	Data Flag	Sample SA61			Sample SA62		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
277UXV	X	14.40	-0.14	-2.92	12.40	-0.03	-0.79
2MYGTN		14.51	-0.03	-0.61	12.42	-0.02	-0.39
33AEDE		14.54	0.00	0.10	12.46	0.03	0.62
33AG3J		14.55	0.01	0.21	12.48	0.04	0.97
3777JQ		14.57	0.03	0.65	12.40	-0.03	-0.79
3E3ZGP		14.57	0.03	0.65	12.42	-0.02	-0.44
3V98RK		14.49	-0.05	-1.09	12.43	-0.01	-0.20
63KZZL		14.57	0.03	0.65	12.47	0.03	0.73
68CCVH		14.61	0.07	1.51	12.47	0.03	0.73
6E6QAN		14.43	-0.11	-2.38	12.37	-0.07	-1.61
6UQWRH	X	14.65	0.11	2.48	12.40	-0.04	-0.91
79GJBF		14.53	-0.01	-0.22	12.44	0.00	0.03
7CFV7F		14.51	-0.03	-0.54	12.42	-0.01	-0.32
7J3J8D		14.48	-0.06	-1.30	12.40	-0.04	-0.91
7L7ERF		14.60	0.06	1.40	12.50	0.07	1.55
7REGXH	X	14.30	-0.24	-5.09	12.27	-0.17	-3.95
7XHGDD	X	14.30	-0.24	-5.09	12.20	-0.23	-5.47
846QZG		14.54	0.00	0.10	12.44	0.00	0.03
8627CD		14.51	-0.03	-0.54	12.40	-0.03	-0.79
8B73WD		14.48	-0.06	-1.19	12.41	-0.02	-0.55
8DAXFG		14.59	0.05	1.08	12.44	0.00	0.03
8HLLFD		14.54	0.00	0.00	12.43	-0.01	-0.20
969XPM	X	14.10	-0.44	-9.41	12.30	-0.13	-3.13
9AP74E		14.59	0.05	1.19	12.47	0.04	0.85
A4EH4H		14.52	-0.02	-0.44	12.38	-0.06	-1.37
A7LXC9		14.47	-0.07	-1.52	12.43	-0.01	-0.20
A964JJ		14.47	-0.07	-1.52	12.38	-0.05	-1.26
AWDENJ	*	14.40	-0.14	-2.92	12.35	-0.08	-1.96
BCKTJL		14.55	0.01	0.32	12.45	0.02	0.38
BPTM3C		14.50	-0.04	-0.76	12.43	0.00	-0.09
BRCTAL	*	14.52	-0.02	-0.33	12.49	0.06	1.32
C7GYBC		14.62	0.08	1.84	12.50	0.06	1.44
CAVUVF		14.58	0.04	0.86	12.52	0.08	1.90
CBRCTB		14.53	-0.01	-0.11	12.46	0.03	0.62
CPMRWB		14.53	-0.01	-0.11	12.40	-0.03	-0.79



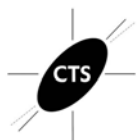
ASEV-CTS Wine Industry Interlaboratory Testing Program

Report #081

Fall 2025

Analysis 901 Ethanol (% of volume)

WebCode	Data Flag	Sample SA61			Sample SA62		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
CPQBKE	*	14.66	0.12	2.70	12.55	0.11	2.61
DJ227A		14.49	-0.05	-1.09	12.39	-0.04	-1.02
DTGZPJ		14.61	0.07	1.62	12.51	0.08	1.79
DVTKQ7		14.52	-0.02	-0.44	12.41	-0.03	-0.67
EEU8EH		14.59	0.05	1.19	12.47	0.04	0.85
EHYN3D	X	14.52	-0.02	-0.33	12.53	0.10	2.25
EMW6E8		14.48	-0.06	-1.30	12.38	-0.06	-1.37
EPFBLG	X	14.60	0.06	1.40	12.70	0.27	6.23
EXQD8H		14.58	0.04	0.97	12.50	0.06	1.44
FJPA9A		14.53	-0.01	-0.11	12.48	0.05	1.08
GWWEY3		14.56	0.02	0.54	12.44	0.01	0.15
HZM9A9		14.57	0.03	0.75	12.44	0.01	0.15
J6GPY8		14.61	0.07	1.62	12.53	0.09	2.14
J7C8Z9		14.57	0.03	0.65	12.40	-0.03	-0.79
JDUDY2		14.48	-0.06	-1.30	12.39	-0.05	-1.14
JLMVA4		14.56	0.02	0.54	12.45	0.02	0.38
K2WWM6		14.57	0.03	0.75	12.49	0.06	1.32
KXXLR6		14.49	-0.05	-1.09	12.40	-0.03	-0.79
LFM9K8		14.57	0.03	0.75	12.47	0.03	0.73
M7JLXT		14.50	-0.04	-0.76	12.41	-0.02	-0.55
M8AU23		14.53	-0.01	-0.11	12.42	-0.02	-0.44
MGKWM4	X	14.28	-0.26	-5.52	12.29	-0.14	-3.36
MLAFH7		14.58	0.04	0.86	12.49	0.05	1.20
MZDR4X		14.54	0.00	0.10	12.43	0.00	-0.09
NQYEA7		14.54	0.00	0.00	12.42	-0.02	-0.44
NW7WXY		14.49	-0.05	-0.98	12.35	-0.08	-1.96
NWAGK3		14.57	0.03	0.75	12.47	0.04	0.85
PDDBR3		14.54	0.00	0.10	12.43	0.00	-0.09
PNAGLZ		14.53	-0.01	-0.11	12.46	0.02	0.50
PXVH4V		14.55	0.01	0.32	12.43	-0.01	-0.20
PXZ3RY		14.47	-0.07	-1.52	12.34	-0.09	-2.19
Q73V94		14.53	-0.01	-0.11	12.49	0.05	1.20
QCWDZ3		14.57	0.03	0.65	12.45	0.01	0.26
QNPZ7X		14.50	-0.04	-0.76	12.38	-0.06	-1.37
QPKFHV		14.54	0.00	0.10	12.44	0.01	0.15



WebCode	Data Flag	Sample SA61			Sample SA62		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
QPZ2RW		14.58	0.04	0.86	12.42	-0.01	-0.32
TKYDNU		14.56	0.02	0.43	12.46	0.03	0.62
TNYNJU		14.53	-0.01	-0.22	12.44	0.01	0.15
UE8P7U		14.51	-0.03	-0.54	12.42	-0.02	-0.44
UTKADZ		14.56	0.02	0.43	12.44	0.01	0.15
VU2JCT		14.55	0.01	0.32	12.41	-0.02	-0.55
VUF4ZW		14.50	-0.04	-0.76	12.40	-0.03	-0.79
WFEQ2R		14.49	-0.05	-1.09	12.40	-0.04	-0.91
WTYHEZ		14.59	0.05	1.19	12.46	0.03	0.62
XK3QYJ		14.53	-0.01	-0.11	12.44	0.01	0.15
XZF3NR		14.51	-0.03	-0.54	12.39	-0.05	-1.14
Y8WX6L		14.56	0.02	0.43	12.48	0.05	1.08
YC7BMK		14.53	-0.01	-0.11	12.41	-0.02	-0.55
YLUBYN		14.61	0.07	1.62	12.48	0.05	1.08
YRF4AM		14.48	-0.06	-1.19	12.39	-0.04	-1.02
YWUW6M		14.48	-0.06	-1.19	12.39	-0.04	-1.02
ZB6XEH		14.55	0.01	0.21	12.43	0.00	-0.09

Grand Means

14.535 percent

Summary Statistics

12.434 percent

Std Dev Btwn Labs

0.046 percent

0.043 percent

Statistics based on 79 of 87 reporting participants

Wines tested: SA61: Chardonnay; SA62: Sauvignon Blanc

Comments on Assigned Data Flags for Test #901

EHYN3D (X) - Inconsistent in testing between samples.

7XHGDD (X) - Data for both samples are low. Possible Systematic Error.

MGKWM4 (X) - Data for both samples are low. Possible Systematic Error.

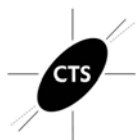
7REGXH (X) - Data for both samples are low. Possible Systematic Error.

6UQWRH (X) - Inconsistent in testing between samples.

EPFBLG (X) - Inconsistent in testing between samples, data for sample SA62 are high.

969XPM (X) - Data for both samples are low. Possible Systematic Error. Inconsistent within the determinations of both samples.

277UXV (X) - Inconsistent in testing between samples, data for sample SA61 are low.



Analysis 901

Ethanol (% of volume)

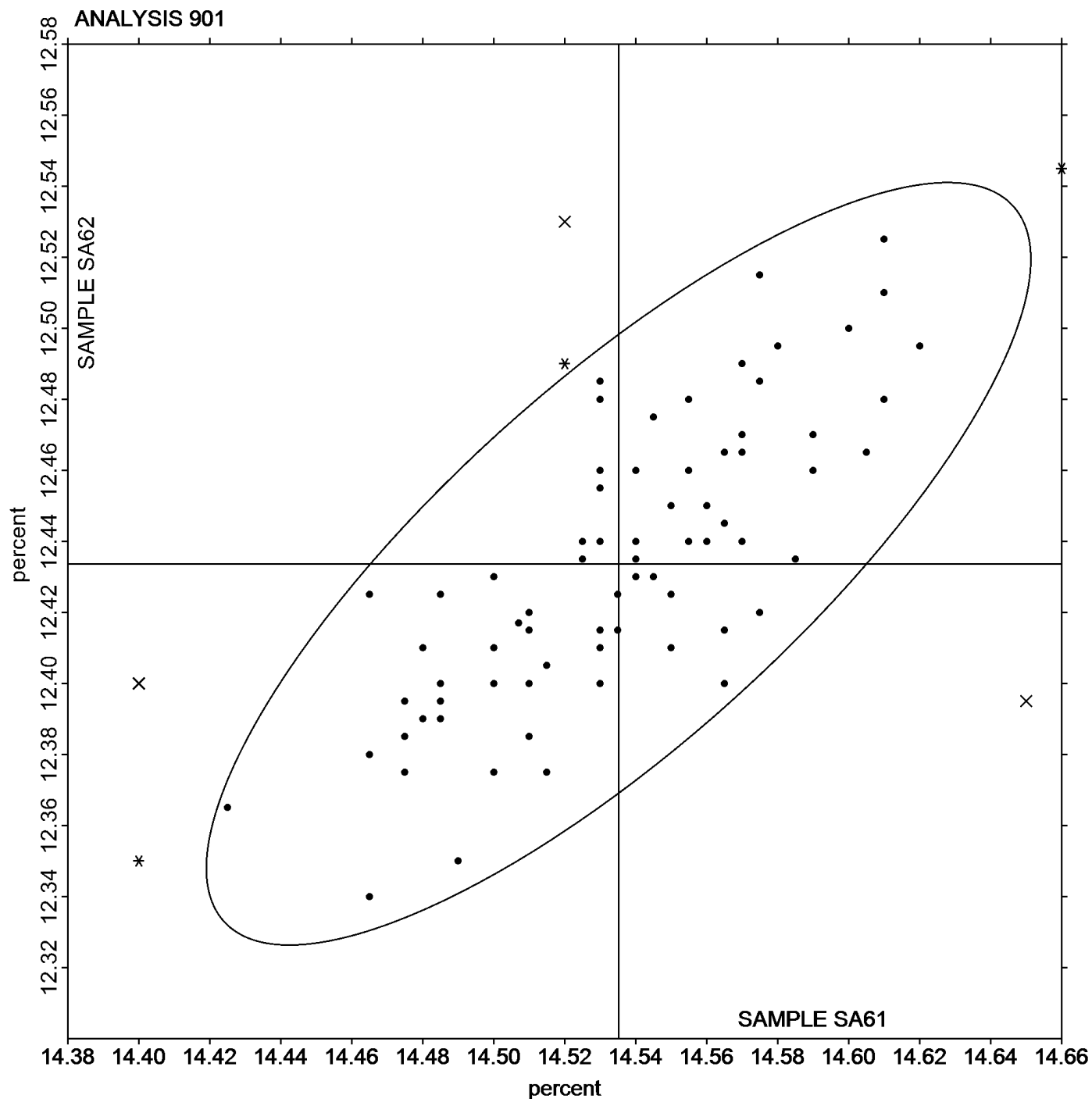
Results by Methodology (as reported by laboratory)

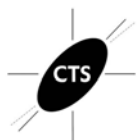
Test Methodology	Sample SA61 <i>Chardonnay</i>			Sample SA62 <i>Sauvignon Blanc</i>			Labs Incl / Rpt
	Group Mean	Btwn Lab STD	Diff from GM	Group Mean	Btwn Lab STD	Diff from GM	
Ebulliometer Method	14.400	0.000	-0.14	12.350	0.000	-0.08	1/3
Gas Chromatography Method	14.519	0.012	-0.02	12.462	0.040	0.03	3/4
Near Infrared Method	14.537	0.044	0.00	12.433	0.041	0.00	64/65
Dist. / Density Method	14.558	0.052	0.02	12.456	0.051	0.02	6/8
FTIR	14.529	0.039	-0.01	12.428	0.048	-0.01	4/6
Other	14.480	0.000	-0.06	12.390	0.000	-0.04	1/1



Analysis 901

Ethanol (% of volume)





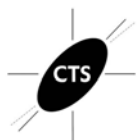
ASEV-CTS Wine Industry Interlaboratory Testing Program

Report #081

Analysis 902 Total Sulfur Dioxide

Fall 2025

WebCode	Data Flag	Sample SA61			Sample SA62		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
277UXV	X	90.00	-6.43	-0.80	104.0	-35.8	-3.10
2MYGTN		101.85	5.42	0.68	148.7	8.9	0.77
33AEDE		89.00	-7.43	-0.93	134.0	-5.8	-0.50
33AG3J	*	96.00	-0.43	-0.05	151.0	11.2	0.97
3777JQ		99.50	3.07	0.38	140.0	0.2	0.02
3E3ZGP		106.00	9.57	1.19	149.0	9.2	0.80
3V98RK		98.00	1.57	0.20	136.0	-3.8	-0.33
63KZZL		90.50	-5.93	-0.74	131.7	-8.1	-0.70
68CCVH		100.00	3.57	0.44	142.0	2.2	0.19
6E6QAN		96.00	-0.43	-0.05	139.5	-0.3	-0.02
6UQWRH		100.50	4.07	0.51	147.0	7.2	0.63
79GJBF		100.50	4.07	0.51	144.5	4.7	0.41
7CFV7F		95.00	-1.43	-0.18	135.0	-4.8	-0.41
7J3J8D	*	119.00	22.57	2.81	164.0	24.2	2.10
7L7ERF		92.50	-3.93	-0.49	134.5	-5.3	-0.46
7REGXH		87.81	-8.62	-1.07	128.9	-10.9	-0.94
7XHGD		102.00	5.57	0.69	146.5	6.7	0.58
846QZG		112.00	15.57	1.94	159.0	19.2	1.66
8627CD		104.00	7.57	0.94	153.0	13.2	1.15
8B73WD		97.50	1.07	0.13	132.5	-7.3	-0.63
8DAXFG		92.50	-3.93	-0.49	134.0	-5.8	-0.50
8HLLFD		94.00	-2.43	-0.30	138.0	-1.8	-0.15
969XPM		82.40	-14.03	-1.75	127.2	-12.6	-1.09
9AP74E		87.50	-8.93	-1.11	132.5	-7.3	-0.63
A7LXC9		103.00	6.57	0.82	150.0	10.2	0.89
A964JJ	*	98.50	2.07	0.26	154.0	14.2	1.23
AWDENJ		104.35	7.92	0.99	153.1	13.3	1.15
BCKTJL		89.00	-7.43	-0.93	126.5	-13.3	-1.15
BPTM3C		110.20	13.77	1.72	160.8	21.0	1.82
BRCTAL	*	93.50	-2.93	-0.37	150.0	10.2	0.89
C7GYBC		98.50	2.07	0.26	142.5	2.7	0.24
CAVUVF		95.50	-0.93	-0.12	140.0	0.2	0.02
CBRCTB		92.00	-4.43	-0.55	132.0	-7.8	-0.67
CPMRWB		91.50	-4.93	-0.61	135.0	-4.8	-0.41
CPQBKE		91.50	-4.93	-0.61	129.5	-10.3	-0.89



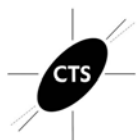
ASEV-CTS Wine Industry Interlaboratory Testing Program

Report #081

Fall 2025

Analysis 902 Total Sulfur Dioxide

WebCode	Data Flag	Sample SA61			Sample SA62		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
DJ227A		106.50	10.07	1.25	153.5	13.7	1.19
DTGZPJ		97.00	0.57	0.07	139.0	-0.8	-0.07
DVTKQ7		90.00	-6.43	-0.80	131.7	-8.1	-0.70
EEU8EH		91.96	-4.47	-0.56	135.2	-4.6	-0.40
EHYN3D		99.00	2.57	0.32	147.5	7.7	0.67
EMW6E8	*	96.50	0.07	0.01	151.5	11.7	1.02
EPFBLG		95.00	-1.43	-0.18	140.0	0.2	0.02
EXQD8H		88.50	-7.93	-0.99	126.5	-13.3	-1.15
FJPA9A		95.00	-1.43	-0.18	138.5	-1.3	-0.11
GAXBUA		103.00	6.57	0.82	147.5	7.7	0.67
GWWEY3		98.85	2.42	0.30	142.2	2.4	0.21
HZM9A9		93.50	-2.93	-0.37	140.0	0.2	0.02
J6GPY8		96.50	0.07	0.01	140.5	0.7	0.06
J7C8Z9		100.50	4.07	0.51	140.0	0.2	0.02
JDUDY2	*	84.00	-12.43	-1.55	112.5	-27.3	-2.36
JLMVA4		92.00	-4.43	-0.55	132.5	-7.3	-0.63
K2WWM6		104.00	7.57	0.94	156.5	16.7	1.45
KXXLR6		103.00	6.57	0.82	148.0	8.2	0.71
M8AU23		94.50	-1.93	-0.24	137.5	-2.3	-0.20
MGKWM4	*	86.00	-10.43	-1.30	114.5	-25.3	-2.19
MLAFH7		90.50	-5.93	-0.74	134.5	-5.3	-0.46
MZDR4X		82.00	-14.43	-1.80	125.0	-14.8	-1.28
NQYEA7		105.00	8.57	1.07	152.0	12.2	1.06
NW7WXY	X	83.50	-12.93	-1.61	140.0	0.2	0.02
NWAGK3		92.50	-3.93	-0.49	133.0	-6.8	-0.59
PDDBR3		91.00	-5.43	-0.68	137.5	-2.3	-0.20
PNAGLZ		89.00	-7.43	-0.93	132.0	-7.8	-0.67
PXVH4V		89.00	-7.43	-0.93	127.0	-12.8	-1.10
PXZ3RY	*	77.00	-19.43	-2.42	110.0	-29.8	-2.58
Q73V94		108.50	12.07	1.50	154.5	14.7	1.28
QCWDZ3		99.25	2.82	0.35	145.9	6.1	0.53
QNPZ7X		93.00	-3.43	-0.43	138.0	-1.8	-0.15
QPKFHV		98.00	1.57	0.20	147.0	7.2	0.63
QPZ2RW		104.30	7.87	0.98	145.0	5.2	0.45
TNYNJU		100.00	3.57	0.44	143.5	3.7	0.32



Analysis 902
Total Sulfur Dioxide

Fall 2025

WebCode	Data Flag	Sample SA61			Sample SA62		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
UE8P7U		94.60	-1.83	-0.23	134.9	-4.9	-0.42
UTKADZ		92.50	-3.93	-0.49	133.5	-6.3	-0.54
VU2JCT		96.50	0.07	0.01	144.0	4.2	0.37
VUF4ZW		98.00	1.57	0.20	132.5	-7.3	-0.63
WFEQ2R		94.00	-2.43	-0.30	133.0	-6.8	-0.59
WTYHEZ		111.50	15.07	1.88	160.0	20.2	1.75
XBGPGN		115.10	18.67	2.33	163.8	24.0	2.08
XK3QYJ		95.00	-1.43	-0.18	139.0	-0.8	-0.07
XZF3NR	*	120.50	24.07	3.00	168.5	28.7	2.49
Y8WX6L		90.50	-5.93	-0.74	130.0	-9.8	-0.85
YC7BMK		95.50	-0.93	-0.12	135.5	-4.3	-0.37
YLUBYN		81.00	-15.43	-1.92	119.0	-20.8	-1.80
YRF4AM		90.00	-6.43	-0.80	130.0	-9.8	-0.85
YWUW6M		90.00	-6.43	-0.80	121.5	-18.3	-1.58
ZB6XEH		93.00	-3.43	-0.43	133.5	-6.3	-0.54

Grand Means

96.430 mg/L

Summary Statistics

139.76 mg/L

Std Dev Btwn Labs

8.025 mg/L

11.55 mg/L

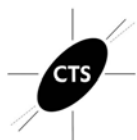
Statistics based on 83 of 85 reporting participants

Wines tested: SA61: Chardonnay; SA62: Sauvignon Blanc

Comments on Assigned Data Flags for Test #902

NW7WXY (X) - Inconsistent in testing between samples.

277UXV (X) - Inconsistent in testing between samples, data for sample SA62 are low.



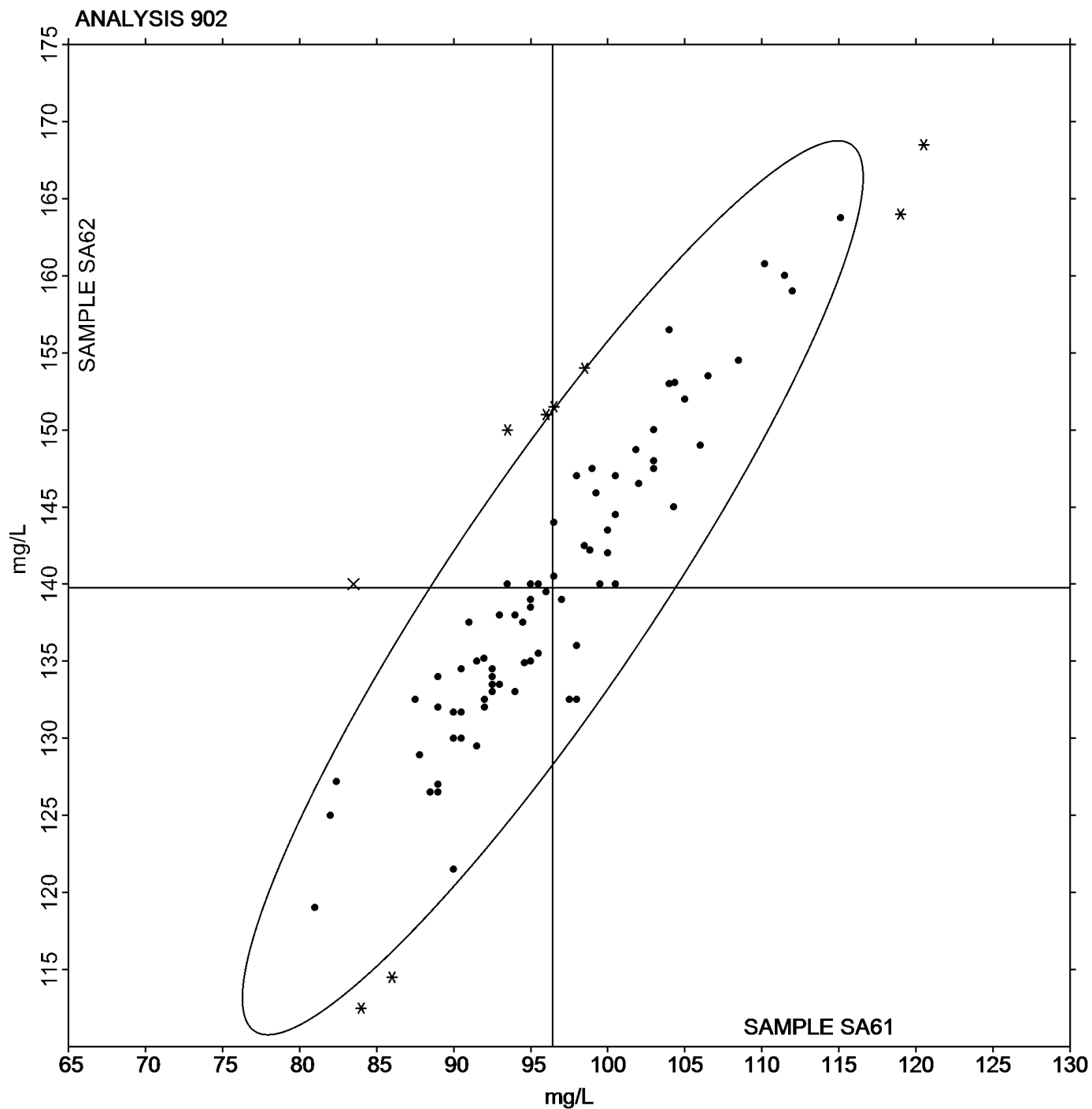
Results by Methodology (as reported by laboratory)

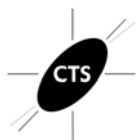
Test Methodology	Sample SA61 <i>Chardonnay</i>			Sample SA62 <i>Sauvignon Blanc</i>			Labs Incl / Rpt
	Group Mean	Btwn Lab STD	Diff from GM	Group Mean	Btwn Lab STD	Diff from GM	
Ripper Method	92.506	4.994	-3.92	134.787	9.591	-4.98	33/33
Aeration Oxidation (AO) Method	93.857	4.888	-2.57	137.786	8.779	-1.98	7/8
Segmented Flow Analyzer	91.920	9.852	-4.51	133.280	14.226	-6.48	5/6
Enzymatic Method	98.625	7.035	2.20	142.671	10.726	2.91	14/14
Colormetric Analyzer	105.134	9.303	8.70	150.872	11.231	11.11	16/16
FTIR	98.000	2.972	1.57	137.250	5.393	-2.51	4/4
Flow Injection Analysis	94.865	3.023	-1.56	140.290	5.215	0.53	4/4



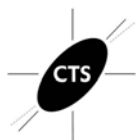
Analysis 902
Total Sulfur Dioxide

Fall 2025

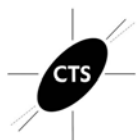


**ASEV-CTS Wine Industry Interlaboratory Testing Program****Report #081****Analysis 903****Fall 2025****Free Sulfur Dioxide**

WebCode	Data Flag	Sample SA61			Sample SA62		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
277UXV	*	27.00	-1.78	-0.59	19.00	-7.13	-2.15
2MYGTN		32.90	4.12	1.38	30.90	4.77	1.44
33AEDE		30.50	1.72	0.58	25.50	-0.63	-0.19
33AG3J		33.50	4.72	1.58	27.00	0.87	0.26
3777JQ		28.50	-0.28	-0.09	24.00	-2.13	-0.64
3E3ZGP		30.50	1.72	0.58	25.50	-0.63	-0.19
3V98RK		33.00	4.22	1.41	29.50	3.37	1.01
63KZZL		25.50	-3.28	-1.09	21.50	-4.63	-1.39
68CCVH		31.00	2.22	0.74	26.50	0.37	0.11
6E6QAN		24.50	-4.28	-1.43	21.50	-4.63	-1.39
6UQWRH		30.50	1.72	0.58	26.50	0.37	0.11
79GJBF		34.00	5.22	1.74	30.50	4.37	1.32
7CFV7F		32.00	3.22	1.08	30.00	3.87	1.16
7J3J8D		32.00	3.22	1.08	30.50	4.37	1.32
7L7ERF		30.00	1.22	0.41	28.00	1.87	0.56
7REGXH		28.29	-0.49	-0.16	24.45	-1.68	-0.51
7XHGD D		25.00	-3.78	-1.26	23.00	-3.13	-0.94
846QZG		27.50	-1.28	-0.43	24.00	-2.13	-0.64
8627CD		30.00	1.22	0.41	28.00	1.87	0.56
8B73WD		29.50	0.72	0.24	29.50	3.37	1.01
8DAXFG		23.50	-5.28	-1.76	22.00	-4.13	-1.24
8HLLFD		28.00	-0.78	-0.26	27.50	1.37	0.41
969XPM		28.15	-0.63	-0.21	28.16	2.03	0.61
9AP74E		32.00	3.22	1.08	27.00	0.87	0.26
A4EH4H		27.00	-1.78	-0.59	28.00	1.87	0.56
A7LXC9		22.50	-6.28	-2.09	18.50	-7.63	-2.30
A964JJ		28.00	-0.78	-0.26	27.50	1.37	0.41
AWDENJ		32.61	3.83	1.28	26.26	0.13	0.04
BCKTJL		26.00	-2.78	-0.93	23.00	-3.13	-0.94
BPTM3C		29.50	0.72	0.24	26.50	0.37	0.11
BRCTAL	X	34.00	5.22	1.74	40.00	13.87	4.18
C7GYBC		25.00	-3.78	-1.26	20.50	-5.63	-1.70
CAVUVF		27.00	-1.78	-0.59	27.00	0.87	0.26
CBRCTB		29.00	0.22	0.07	25.00	-1.13	-0.34
CPMRWB		29.00	0.22	0.07	27.00	0.87	0.26

**ASEV-CTS Wine Industry Interlaboratory Testing Program****Report #081****Analysis 903****Fall 2025****Free Sulfur Dioxide**

WebCode	Data Flag	Sample SA61			Sample SA62		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
CPQBKE		30.50	1.72	0.58	30.50	4.37	1.32
DJ227A		26.50	-2.28	-0.76	21.50	-4.63	-1.39
DTGZPJ		28.00	-0.78	-0.26	23.00	-3.13	-0.94
DVTKQ7		31.00	2.22	0.74	28.67	2.54	0.76
EEU8EH		24.87	-3.91	-1.30	22.79	-3.34	-1.01
EHYN3D		27.00	-1.78	-0.59	26.50	0.37	0.11
EMW6E8		32.00	3.22	1.08	32.50	6.37	1.92
EPFBLG		30.00	1.22	0.41	26.00	-0.13	-0.04
EXQD8H		26.50	-2.28	-0.76	27.50	1.37	0.41
FJPA9A		24.00	-4.78	-1.59	22.50	-3.63	-1.09
GWWEY3		29.00	0.22	0.07	25.05	-1.08	-0.33
HZM9A9		24.00	-4.78	-1.59	22.00	-4.13	-1.24
J6GPY8		34.00	5.22	1.74	33.50	7.37	2.22
J7C8Z9		29.50	0.72	0.24	27.00	0.87	0.26
JDUDY2		29.00	0.22	0.07	28.00	1.87	0.56
JLMVA4		28.00	-0.78	-0.26	26.00	-0.13	-0.04
K2WWM6		25.50	-3.28	-1.09	26.50	0.37	0.11
KXXLR6		28.00	-0.78	-0.26	29.00	2.87	0.86
LFM9K8		30.11	1.34	0.45	27.45	1.32	0.40
M7JLXT		29.50	0.72	0.24	26.50	0.37	0.11
M8AU23		25.95	-2.83	-0.94	20.45	-5.68	-1.71
MGKWM4		29.95	1.17	0.39	28.95	2.82	0.85
MLAFH7		31.00	2.22	0.74	28.00	1.87	0.56
MZDR4X		27.00	-1.78	-0.59	23.00	-3.13	-0.94
NQYEA7		27.75	-1.03	-0.34	24.60	-1.53	-0.46
NW7WXY		27.50	-1.28	-0.43	22.50	-3.63	-1.09
NWAGK3		34.00	5.22	1.74	30.00	3.87	1.16
PDDBR3		29.50	0.72	0.24	25.50	-0.63	-0.19
PNAGLZ	*	20.50	-8.28	-2.76	20.50	-5.63	-1.70
PXVH4V		24.00	-4.78	-1.59	22.00	-4.13	-1.24
PXZ3RY		27.50	-1.28	-0.43	23.50	-2.63	-0.79
Q73V94		25.00	-3.78	-1.26	23.00	-3.13	-0.94
QCWDZ3		26.50	-2.28	-0.76	25.00	-1.13	-0.34
QNPZ7X		30.00	1.22	0.41	29.00	2.87	0.86
QPKFHV	*	25.50	-3.28	-1.09	29.50	3.37	1.01

Analysis 903
Free Sulfur Dioxide

Fall 2025

WebCode	Data Flag	Sample SA61			Sample SA62		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
QPZ2RW		29.75	0.97	0.33	28.10	1.97	0.59
TKYDNU	*	29.50	0.72	0.24	21.00	-5.13	-1.55
TNYNJU		27.85	-0.93	-0.31	26.90	0.77	0.23
UE8P7U		30.00	1.22	0.41	22.80	-3.33	-1.00
UTKADZ		32.50	3.72	1.24	32.00	5.87	1.77
VU2JCT		27.00	-1.78	-0.59	24.50	-1.63	-0.49
VUF4ZW		33.00	4.22	1.41	27.50	1.37	0.41
WFEQ2R		29.00	0.22	0.07	27.00	0.87	0.26
WTYHEZ	*	27.50	-1.28	-0.43	31.50	5.37	1.62
WUEQTU		33.55	4.77	1.59	31.05	4.92	1.48
XBGPGN		31.00	2.22	0.74	25.00	-1.13	-0.34
XK3QYJ	*	37.00	8.22	2.74	33.00	6.87	2.07
XZF3NR		28.50	-0.28	-0.09	22.50	-3.63	-1.09
Y8WX6L		27.00	-1.78	-0.59	25.00	-1.13	-0.34
YC7BMK		29.50	0.72	0.24	28.00	1.87	0.56
YLUBYN		26.00	-2.78	-0.93	24.50	-1.63	-0.49
YRF4AM		30.50	1.72	0.58	30.00	3.87	1.16
YWUW6M		34.00	5.22	1.74	27.50	1.37	0.41
ZB6XEH		27.50	-1.28	-0.43	24.50	-1.63	-0.49

Grand Means

28.775 mg/L

Summary Statistics

26.132 mg/L

Std Dev Btwn Labs

2.999 mg/L

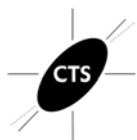
3.321 mg/L

Statistics based on 88 of 89 reporting participants

Wines tested: SA61: Chardonnay; SA62: Sauvignon Blanc

Comments on Assigned Data Flags for Test #903

BRCTAL (X) - Inconsistent in testing between samples, data for sample SA62 are high.

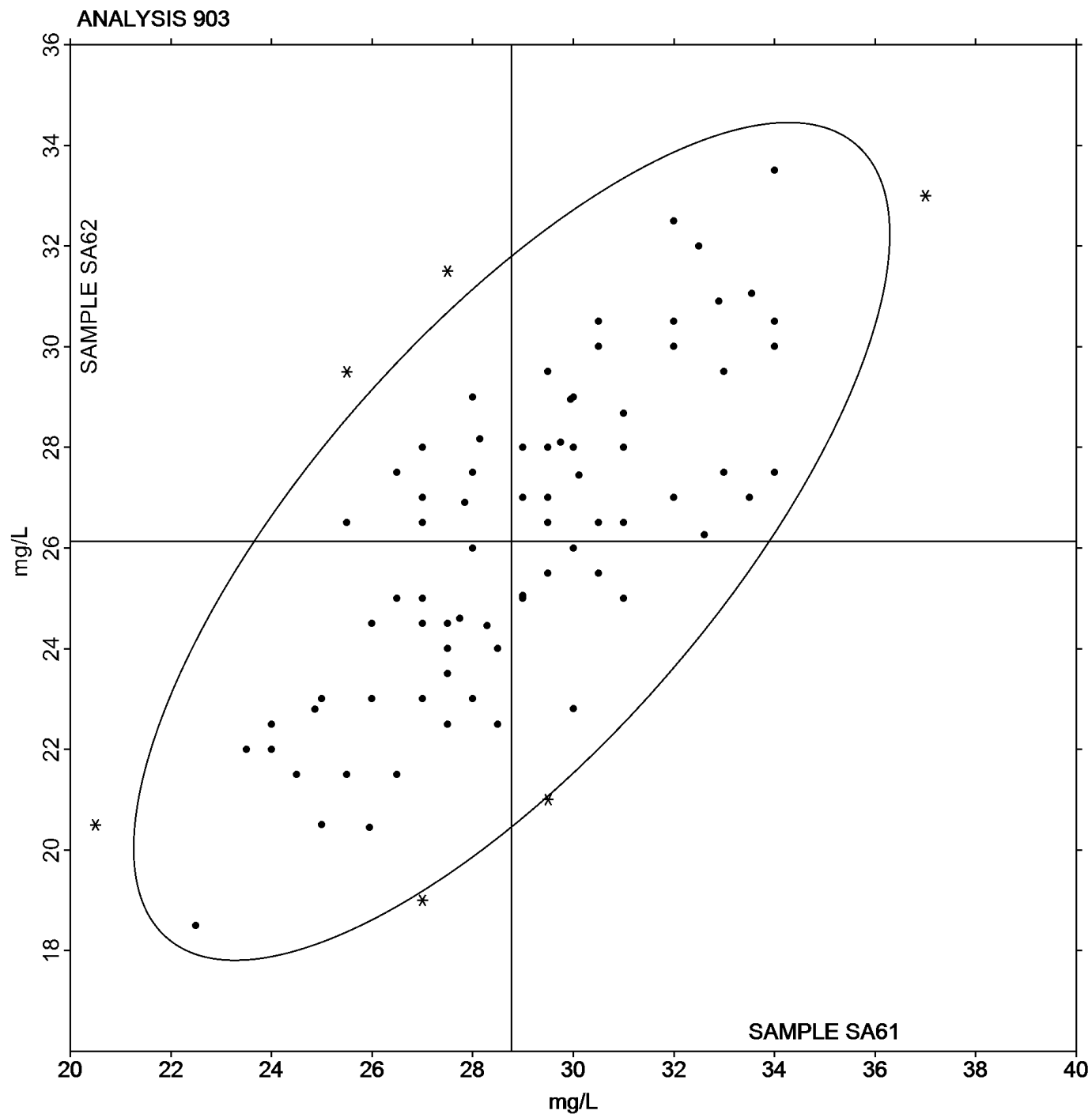


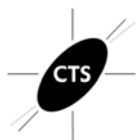
Analysis 903

Free Sulfur Dioxide

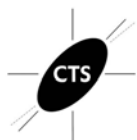
Results by Methodology (as reported by laboratory)

Test Methodology	Sample SA61 <i>Chardonnay</i>			Sample SA62 <i>Sauvignon Blanc</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	1.72	25.500	0.000	-0.63	1/1
Ripper Method	30.020	2.797	1.24	28.597	2.278	2.47	28/29
Aeration Oxidation (AO) Method	27.542	3.051	-1.23	25.008	3.465	-1.12	18/18
Segmented Flow Analyzer	28.917	2.268	0.14	24.217	1.995	-1.91	6/6
Enzymatic Method	27.677	3.678	-1.10	24.632	4.110	-1.50	11/11
Colormetric Analyzer	29.090	2.323	0.31	24.947	2.919	-1.18	14/14
Flow Injection Analysis	26.174	2.963	-2.60	24.058	2.247	-2.07	5/5
FTIR	29.870	2.138	1.09	27.480	1.130	1.35	5/5

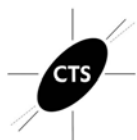


**ASEV-CTS Wine Industry Interlaboratory Testing Program****Report #081****Fall 2025****Analysis 904**
Titrateable Acidity

WebCode	Data Flag	Sample SA61			Sample SA62		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
277UXV	X	5.210	-0.421	-2.10	7.610	-0.128	-0.47
2MYGTN		5.780	0.149	0.74	7.815	0.077	0.28
33AEDE		5.700	0.069	0.35	7.750	0.012	0.05
33AG3J		5.715	0.084	0.42	7.885	0.147	0.54
3777JQ		5.235	-0.396	-1.97	7.305	-0.433	-1.59
3E3ZGP		5.350	-0.281	-1.40	7.450	-0.288	-1.06
3V98RK		5.550	-0.081	-0.40	7.490	-0.248	-0.91
63KZZL		6.030	0.399	1.99	8.370	0.632	2.32
68CCVH		6.050	0.419	2.09	8.300	0.562	2.07
6E6QAN		5.650	0.019	0.10	7.750	0.012	0.05
6UQWRH		5.810	0.179	0.89	7.935	0.197	0.73
79GJBF		5.715	0.084	0.42	7.800	0.062	0.23
7CFV7F		5.525	-0.106	-0.53	7.525	-0.213	-0.78
7J3J8D		6.050	0.419	2.09	8.200	0.462	1.70
7L7ERF		5.470	-0.161	-0.80	7.495	-0.243	-0.89
7REGXH	*	5.520	-0.111	-0.55	7.925	0.187	0.69
7XHGDD		5.350	-0.281	-1.40	7.550	-0.188	-0.69
846QZG		5.445	-0.186	-0.93	7.550	-0.188	-0.69
8627CD		5.940	0.309	1.54	8.120	0.382	1.40
8B73WD		5.415	-0.216	-1.07	7.710	-0.028	-0.10
8DAXFG		5.450	-0.181	-0.90	7.450	-0.288	-1.06
8HLLFD		5.545	-0.086	-0.43	7.635	-0.103	-0.38
969XPM		5.450	-0.181	-0.90	7.400	-0.338	-1.24
9AP74E		5.800	0.169	0.84	7.800	0.062	0.23
A4EH4H		5.900	0.269	1.34	8.000	0.262	0.96
A7LXC9	X	5.160	-0.471	-2.34	7.820	0.082	0.30
A964JJ		5.620	-0.011	-0.05	7.660	-0.078	-0.29
AWDENJ	X	5.090	-0.541	-2.69	7.405	-0.333	-1.22
BCKTJL		5.515	-0.116	-0.58	7.605	-0.133	-0.49
BPTM3C		5.645	0.014	0.07	7.630	-0.108	-0.40
BRCTAL		5.550	-0.081	-0.40	7.700	-0.038	-0.14
C7GYBC		5.745	0.114	0.57	7.805	0.067	0.25
CAVUVF		5.695	0.064	0.32	7.760	0.022	0.08
CBRCTB		5.800	0.169	0.84	8.200	0.462	1.70
CPMRWB		5.370	-0.261	-1.30	7.400	-0.338	-1.24

**ASEV-CTS Wine Industry Interlaboratory Testing Program****Report #081****Fall 2025****Analysis 904**
Titrateable Acidity

WebCode	Data Flag	Sample SA61			Sample SA62		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
CPQBKE	X	6.100	0.469	2.34	7.500	-0.238	-0.87
DJ227A		5.665	0.034	0.17	7.800	0.062	0.23
DTGZPJ		5.400	-0.231	-1.15	7.500	-0.238	-0.87
DVTKQ7		5.850	0.219	1.09	7.900	0.162	0.60
EEU8EH		5.300	-0.331	-1.65	7.500	-0.238	-0.87
EHYN3D		5.600	-0.031	-0.15	7.750	0.012	0.05
EMW6E8		5.935	0.304	1.52	8.050	0.312	1.15
EPFBLG		6.065	0.434	2.16	8.300	0.562	2.07
EXQD8H		5.400	-0.231	-1.15	7.300	-0.438	-1.61
GAXBUA		6.000	0.369	1.84	8.050	0.312	1.15
GWWEY3		5.590	-0.041	-0.20	7.600	-0.138	-0.51
HZM9A9		5.500	-0.131	-0.65	7.550	-0.188	-0.69
J6GPY8		5.350	-0.281	-1.40	7.350	-0.388	-1.42
J7C8Z9		5.760	0.129	0.64	8.100	0.362	1.33
JDUDY2		5.500	-0.131	-0.65	7.500	-0.238	-0.87
JLMVA4	*	5.750	0.119	0.59	8.200	0.462	1.70
K2WWM6		5.450	-0.181	-0.90	7.450	-0.288	-1.06
KXXLR6		5.650	0.019	0.10	7.800	0.062	0.23
LFM9K8	*	6.190	0.559	2.79	8.435	0.697	2.56
M7JLXT		5.490	-0.141	-0.70	7.805	0.067	0.25
M8AU23		5.650	0.019	0.10	7.700	-0.038	-0.14
MGKWM4	X	5.961	0.330	1.64	8.676	0.938	3.45
MLAFH7		5.500	-0.131	-0.65	7.500	-0.238	-0.87
MZDR4X		5.800	0.169	0.84	7.730	-0.008	-0.03
NQYEA7		5.430	-0.201	-1.00	7.440	-0.298	-1.09
NW7WXY		5.600	-0.031	-0.15	7.800	0.062	0.23
NWAGK3		5.475	-0.156	-0.78	7.515	-0.223	-0.82
PDDBR3		5.565	-0.066	-0.33	7.825	0.087	0.32
PNAGLZ		5.400	-0.231	-1.15	7.450	-0.288	-1.06
PXVH4V		5.500	-0.131	-0.65	7.400	-0.338	-1.24
PXZ3RY	*	5.735	0.104	0.52	8.200	0.462	1.70
Q73V94		5.755	0.124	0.62	7.875	0.137	0.50
QCWDZ3		5.550	-0.081	-0.40	7.540	-0.198	-0.73
QNPZ7X	X	5.535	-0.096	-0.48	7.175	-0.563	-2.07
QPKFHV		5.665	0.034	0.17	7.730	-0.008	-0.03



Analysis 904
Titrateable Acidity

Fall 2025

WebCode	Data Flag	Sample SA61			Sample SA62		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
QPZ2RW		5.765	0.134	0.67	7.950	0.212	0.78
TKYDNU	X	7.175	1.544	7.69	8.010	0.272	1.00
TNYNJU	X	5.680	0.049	0.25	8.820	1.082	3.98
UE8P7U		5.715	0.084	0.42	7.995	0.257	0.95
UTKADZ	X	6.145	0.514	2.56	7.705	-0.033	-0.12
VU2JCT		5.921	0.290	1.44	8.090	0.352	1.29
VUF4ZW		5.600	-0.031	-0.15	7.400	-0.338	-1.24
WFEQ2R		5.500	-0.131	-0.65	7.600	-0.138	-0.51
WTYHEZ		5.400	-0.231	-1.15	7.400	-0.338	-1.24
WUEQTU	X	4.955	-0.676	-3.37	7.365	-0.373	-1.37
XK3QYJ		5.665	0.034	0.17	7.815	0.077	0.28
XZF3NR	X	6.295	0.664	3.31	8.140	0.402	1.48
Y8WX6L		5.635	0.004	0.02	7.540	-0.198	-0.73
YC7BMK		5.500	-0.131	-0.65	7.550	-0.188	-0.69
YLUBYN		5.600	-0.031	-0.15	7.700	-0.038	-0.14
YRF4AM		5.605	-0.026	-0.13	7.590	-0.148	-0.54
YWUW6M		5.550	-0.081	-0.40	7.800	0.062	0.23
ZB6XEH		5.650	0.019	0.10	7.750	0.012	0.05

Grand Means

5.6307 g/L as tartaric acid

Summary Statistics

7.7376 g/L as tartaric acid

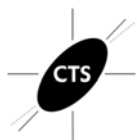
Std Dev Btwn Labs

0.2007 g/L as tartaric acid

0.2723 g/L as tartaric acid

Statistics based on 77 of 88 reporting participants

Wines tested: SA61: Chardonnay; SA62: Sauvignon Blanc

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

WUEQTU (X) - Data for sample SA61 are low.

CPQBKE (X) - Inconsistent in testing between samples.

XZF3NR (X) - Data for sample SA61 are high. Inconsistent within the determinations of sample SA61.

QNPZ7X (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample SA61.

TNYNJU (X) - Data for sample SA62 are high.

TKYDNU (X) - Data for sample SA61 are high.

A7LXC9 (X) - Inconsistent in testing between samples. Inconsistent within the determinations of both samples.

MGKWM4 (X) - Data for sample SA62 are high.

UTKADZ (X) - Inconsistent in testing between samples.

277UXV (X) - Inconsistent in testing between samples.

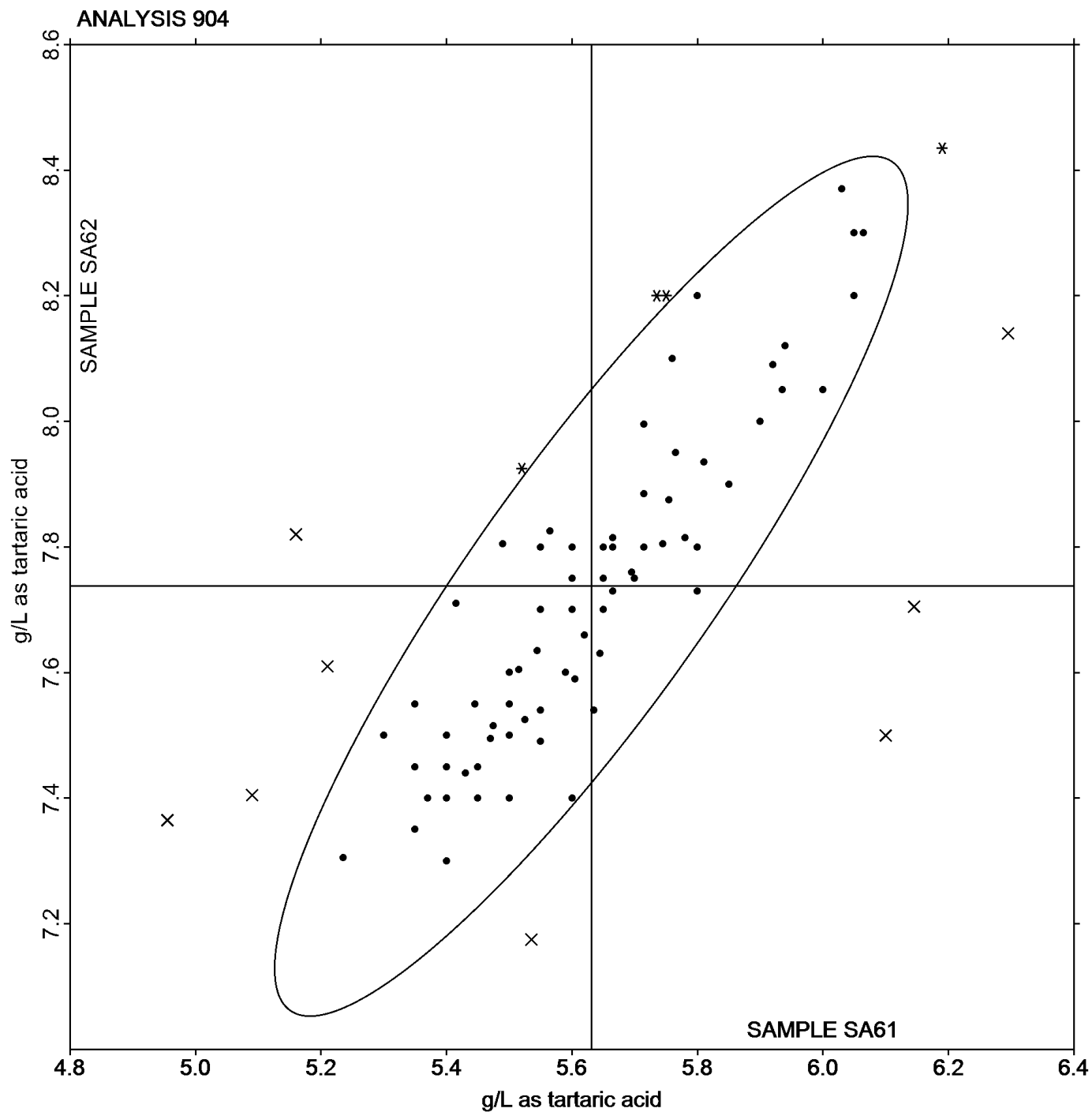
AWDENJ (X) - Inconsistent in testing between samples.

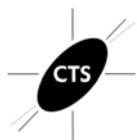
Results by Methodology (as reported by laboratory)

Test Methodology	Sample SA61 <i>Chardonnay</i>			Sample SA62 <i>Sauvignon Blanc</i>			Labs Incl / Rpt
	Group Mean	Btwn Lab STD	Diff from GM	Group Mean	Btwn Lab STD	Diff from GM	
Autotitration	5.641	0.207	0.010	7.729	0.268	-0.009	65/71
Manual Titration	5.483	0.109	-0.148	7.516	0.082	-0.221	4/6
FTIR	5.610	0.168	-0.021	7.911	0.300	0.174	7/10
Segmented Flow Analyzer	5.715	0.000	0.084	7.995	0.000	0.257	1/1

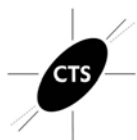


Analysis 904
Titratable Acidity

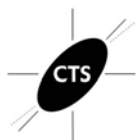


**ASEV-CTS Wine Industry Interlaboratory Testing Program****Report #081****Fall 2025****Analysis 905
Volatile Acidity**

WebCode	Data Flag	Sample SA61			Sample SA62		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
277UXV		0.4500	0.0539	1.91	0.3700	0.0534	2.03
2MYGTN		0.4120	0.0159	0.56	0.3285	0.0119	0.45
33AEDE		0.4100	0.0139	0.49	0.3300	0.0134	0.51
33AG3J		0.4100	0.0139	0.49	0.3200	0.0034	0.13
3777JQ		0.3350	-0.0611	-2.16	0.2650	-0.0516	-1.96
3E3ZGP		0.3650	-0.0311	-1.10	0.2800	-0.0366	-1.39
3V98RK	X	0.3700	-0.0261	-0.93	0.3400	0.0234	0.89
63KZZL		0.3700	-0.0261	-0.93	0.2800	-0.0366	-1.39
68CCVH	X	0.4550	0.0589	2.09	0.2800	-0.0366	-1.39
6E6QAN		0.4200	0.0239	0.85	0.3250	0.0084	0.32
6UQWRH		0.4100	0.0139	0.49	0.3250	0.0084	0.32
79GJBF		0.4250	0.0289	1.02	0.3600	0.0434	1.65
7CFV7F		0.3800	-0.0161	-0.57	0.2800	-0.0366	-1.39
7J3J8D		0.3900	-0.0061	-0.22	0.3050	-0.0116	-0.44
7L7ERF		0.3650	-0.0311	-1.10	0.3100	-0.0066	-0.25
7REGXH	X	0.3950	-0.0011	-0.04	0.2600	-0.0566	-2.15
7XHGDD		0.3650	-0.0311	-1.10	0.3000	-0.0166	-0.63
846QZG		0.4000	0.0039	0.14	0.3150	-0.0016	-0.06
8627CD		0.3500	-0.0461	-1.63	0.2700	-0.0466	-1.77
8B73WD		0.4150	0.0189	0.67	0.3450	0.0284	1.08
8DAXFG		0.4050	0.0089	0.31	0.3400	0.0234	0.89
8HLLFD		0.4050	0.0089	0.31	0.3150	-0.0016	-0.06
9AP74E		0.4200	0.0239	0.85	0.3550	0.0384	1.46
A4EH4H	X	0.4200	0.0239	0.85	0.2400	-0.0766	-2.91
A7LXC9		0.3840	-0.0121	-0.43	0.3150	-0.0016	-0.06
A964JJ		0.4000	0.0039	0.14	0.3250	0.0084	0.32
AWDENJ		0.4100	0.0139	0.49	0.3200	0.0034	0.13
BCKTJL		0.3750	-0.0211	-0.75	0.3100	-0.0066	-0.25
BPTM3C		0.4110	0.0149	0.53	0.3290	0.0124	0.47
BRCTAL		0.3600	-0.0361	-1.28	0.2800	-0.0366	-1.39
C7GYBC	X	0.4150	0.0189	0.67	0.3900	0.0734	2.79
CAVUVF		0.3800	-0.0161	-0.57	0.3000	-0.0166	-0.63
CBRCTB		0.3700	-0.0261	-0.93	0.3150	-0.0016	-0.06
CPMRWB	X	0.3200	-0.0761	-2.70	0.4050	0.0884	3.36
CPQBKE		0.4600	0.0639	2.26	0.3700	0.0534	2.03

**ASEV-CTS Wine Industry Interlaboratory Testing Program****Report #081****Fall 2025****Analysis 905
Volatile Acidity**

WebCode	Data Flag	Sample SA61			Sample SA62		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
DJ227A		0.3750	-0.0211	-0.75	0.2950	-0.0216	-0.82
DTGZPJ		0.4100	0.0139	0.49	0.3300	0.0134	0.51
DVTKQ7		0.4200	0.0239	0.85	0.3400	0.0234	0.89
EEU8EH		0.4000	0.0039	0.14	0.3000	-0.0166	-0.63
EHYN3D	X	0.4850	0.0889	3.15	0.3350	0.0184	0.70
EMW6E8		0.4050	0.0089	0.31	0.3350	0.0184	0.70
EPFBLG		0.3750	-0.0211	-0.75	0.2950	-0.0216	-0.82
EXQD8H		0.3650	-0.0311	-1.10	0.3100	-0.0066	-0.25
GWWEY3		0.3825	-0.0136	-0.48	0.3185	0.0019	0.07
HZM9A9		0.4200	0.0239	0.85	0.3300	0.0134	0.51
J6GPY8		0.3900	-0.0061	-0.22	0.3050	-0.0116	-0.44
J7C8Z9	X	0.4550	0.0589	2.09	0.2500	-0.0666	-2.53
JDUDY2		0.4300	0.0339	1.20	0.3450	0.0284	1.08
JLMVA4		0.4100	0.0139	0.49	0.3500	0.0334	1.27
K2WWM6		0.4250	0.0289	1.02	0.3200	0.0034	0.13
KXXLR6		0.3700	-0.0261	-0.93	0.2900	-0.0266	-1.01
LFM9K8		0.4300	0.0339	1.20	0.3550	0.0384	1.46
M7JLXT		0.3800	-0.0161	-0.57	0.3050	-0.0116	-0.44
M8AU23		0.3850	-0.0111	-0.39	0.3150	-0.0016	-0.06
MGKWM4	X	0.3885	-0.0076	-0.27	0.2620	-0.0546	-2.08
MLAFH7		0.3650	-0.0311	-1.10	0.3000	-0.0166	-0.63
MZDR4X		0.4000	0.0039	0.14	0.3000	-0.0166	-0.63
NQYEA7		0.4195	0.0234	0.83	0.3415	0.0249	0.95
NW7WXY	X	0.4250	0.0289	1.02	0.2500	-0.0666	-2.53
NWAGK3		0.3800	-0.0161	-0.57	0.3000	-0.0166	-0.63
PDDBR3		0.4200	0.0239	0.85	0.3400	0.0234	0.89
PNAGLZ		0.3800	-0.0161	-0.57	0.2900	-0.0266	-1.01
PXVH4V		0.3750	-0.0211	-0.75	0.3000	-0.0166	-0.63
PXZ3RY	X	0.4700	0.0739	2.62	0.3200	0.0034	0.13
Q73V94		0.3450	-0.0511	-1.81	0.2850	-0.0316	-1.20
QCWDZ3	X	0.4090	0.0129	0.46	0.4485	0.1319	5.02
QNPZ7X		0.3800	-0.0161	-0.57	0.2975	-0.0191	-0.72
QPKFHV		0.4200	0.0239	0.85	0.3400	0.0234	0.89
QPZ2RW		0.4090	0.0129	0.46	0.3085	-0.0081	-0.31
TKYDNU		0.4050	0.0089	0.31	0.3100	-0.0066	-0.25

Analysis 905
Volatile Acidity

WebCode	Data Flag	Sample SA61			Sample SA62		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
TNYNJU	X	0.3750	-0.0211	-0.75	0.2350	-0.0816	-3.10
UE8P7U	*	0.4800	0.0839	2.97	0.3900	0.0734	2.79
UTKADZ		0.4200	0.0239	0.85	0.3550	0.0384	1.46
VU2JCT		0.3800	-0.0161	-0.57	0.3000	-0.0166	-0.63
VUF4ZW		0.4000	0.0039	0.14	0.3100	-0.0066	-0.25
WFEQ2R	X	0.4250	0.0289	1.02	0.2750	-0.0416	-1.58
WTYHEZ		0.3650	-0.0311	-1.10	0.2950	-0.0216	-0.82
WUEQTU	X	0.9150	0.5189	18.38	0.9050	0.5884	22.39
XBGPGN		0.3600	-0.0361	-1.28	0.2800	-0.0366	-1.39
XK3QYJ		0.4150	0.0189	0.67	0.3250	0.0084	0.32
XZF3NR		0.3675	-0.0286	-1.01	0.3185	0.0019	0.07
Y8WX6L		0.3450	-0.0511	-1.81	0.2550	-0.0616	-2.34
YC7BMK		0.3950	-0.0011	-0.04	0.3200	0.0034	0.13
YLUBYN		0.3950	-0.0011	-0.04	0.3150	-0.0016	-0.06
YRF4AM		0.3950	-0.0011	-0.04	0.3050	-0.0116	-0.44
YWUW6M		0.4600	0.0639	2.26	0.3600	0.0434	1.65
ZB6XEH		0.4200	0.0239	0.85	0.3300	0.0134	0.51

Grand Means

0.39612 g/L as acetic acid

Summary Statistics

0.31656 g/L as acetic acid

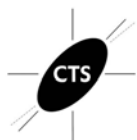
Std Dev Btwn Labs

0.02823 g/L as acetic acid

0.02629 g/L as acetic acid

Statistics based on 72 of 87 reporting participants

Wines tested: SA61: Chardonnay; SA62: Sauvignon Blanc

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

- A4EH4H (X) - Inconsistent in testing between samples, data for sample SA62 are low. Inconsistent within the determinations of sample SA62.
- WUEQTU (X) - Data for both samples are high. Inconsistent within the determinations of both samples.
- QCWDZ3 (X) - Inconsistent in testing between samples, data for sample SA62 are high.
- J7C8Z9 (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample SA62.
- EHYN3D (X) - Inconsistent in testing between samples, data for sample SA61 are high.
- PXZ3RY (X) - Inconsistent in testing between samples.
- NW7WXY (X) - Inconsistent in testing between samples.
- CPMRWB (X) - Inconsistent in testing between samples, data for sample SA62 are high.
- TNYNJU (X) - Inconsistent in testing between samples, data for sample SA62 are low.
- MGKWM4 (X) - Inconsistent in testing between samples.
- 68CCVH (X) - Inconsistent in testing between samples.
- 3V98RK (X) - Inconsistent in testing between samples.
- C7GYBC (X) - Inconsistent in testing between samples, data for sample SA62 are high. Inconsistent within the determinations of sample SA62.
- WFEQ2R (X) - Inconsistent in testing between samples.
- 7REGXH (X) - Inconsistent in testing between samples.

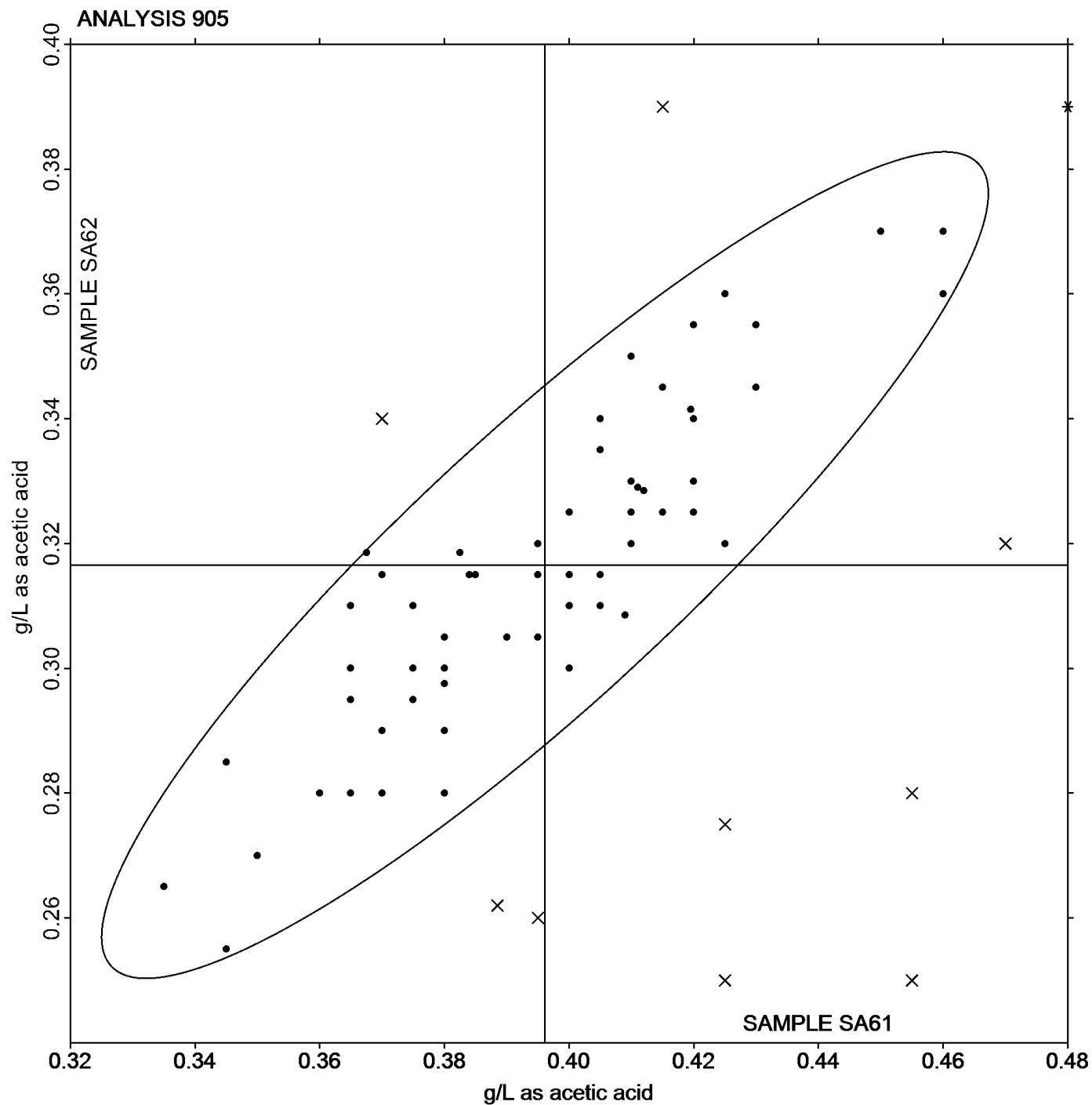
Results by Methodology (as reported by laboratory)

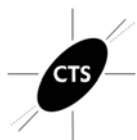
Test Methodology	Sample SA61 <i>Chardonnay</i>			Sample SA62 <i>Sauvignon Blanc</i>			Labs Incl / Rpt
	Group Mean	Btwn Lab STD	Diff from GM	Group Mean	Btwn Lab STD	Diff from GM	
Cash Still method	0.430	0.020	0.0339	0.347	0.023	0.0301	3/4
Enzymatic method	0.392	0.025	-0.0045	0.312	0.024	-0.0043	62/67
GC							0/1
Colorimetric Analysis	0.406	0.008	0.0099	0.322	0.010	0.0052	2/2
Seg. Flow / Colorimetric Analyzer	0.450	0.042	0.0539	0.373	0.025	0.0559	2/2
FTIR	0.413	0.045	0.0172	0.335	0.030	0.0184	3/11



Analysis 905
Volatile Acidity

Fall 2025





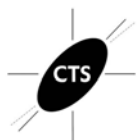
ASEV-CTS Wine Industry Interlaboratory Testing Program

Report #081

Analysis 906 Specific Gravity

Fall 2025

WebCode	Data Flag	Sample SA61			Sample SA62		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
277UXV	X	0.9910	0.0000	-0.04	0.9925	-0.0006	-0.94
2MYGTN	*	0.9908	-0.0002	-0.35	0.9933	0.0002	0.35
33AEDE	*	0.9892	-0.0018	-3.06	0.9911	-0.0020	-3.20
33AG3J	X	0.9890	-0.0020	-3.39	0.9905	-0.0026	-4.17
3E3ZGP		0.9911	0.0001	0.12	0.9932	0.0001	0.19
3V98RK		0.9910	0.0000	0.02	0.9931	0.0000	0.06
63KZZL		0.9911	0.0001	0.12	0.9932	0.0001	0.19
68CCVH	X	0.9888	-0.0023	-3.81	0.9909	-0.0022	-3.52
6E6QAN		0.9910	-0.0001	-0.13	0.9933	0.0002	0.27
6UQWRH		0.9912	0.0002	0.28	0.9935	0.0004	0.70
79GJBF		0.9913	0.0002	0.40	0.9934	0.0003	0.49
7CFV7F		0.9912	0.0002	0.31	0.9932	0.0001	0.21
7J3J8D		0.9911	0.0001	0.12	0.9931	0.0000	-0.05
7REGXH		0.9912	0.0002	0.26	0.9930	-0.0001	-0.11
7XHGGD	X	0.9925	0.0014	2.38	0.9913	-0.0018	-2.88
846QZG		0.9912	0.0002	0.29	0.9934	0.0003	0.52
8627CD		0.9925	0.0015	2.44	0.9946	0.0015	2.44
8B73WD		0.9909	-0.0001	-0.17	0.9932	0.0001	0.18
8HLLFD		0.9910	-0.0001	-0.13	0.9932	0.0001	0.19
969XPM	X	0.9918	0.0008	1.27	0.9928	-0.0003	-0.47
9AP74E		0.9916	0.0006	0.96	0.9937	0.0006	1.00
A7LXC9		0.9908	-0.0002	-0.38	0.9930	-0.0001	-0.13
A964JJ	*	0.9891	-0.0020	-3.31	0.9912	-0.0019	-3.12
BCKTJL		0.9909	-0.0001	-0.21	0.9930	-0.0001	-0.13
BPTM3C		0.9915	0.0004	0.71	0.9936	0.0005	0.76
BRCTAL		0.9911	0.0001	0.12	0.9932	0.0001	0.14
C7GYBC		0.9918	0.0008	1.27	0.9938	0.0007	1.14
CAVUVF		0.9912	0.0001	0.21	0.9934	0.0003	0.43
CBRCTB		0.9910	-0.0001	-0.13	0.9930	-0.0001	-0.13
CPMRWB		0.9910	0.0000	-0.04	0.9930	-0.0001	-0.13
CPQBKE		0.9913	0.0002	0.41	0.9932	0.0001	0.14
DJ227A	X	0.9902	-0.0008	-1.32	0.9941	0.0010	1.63
DVTKQ7		0.9919	0.0009	1.46	0.9941	0.0010	1.56
EEU8EH		0.9910	0.0000	-0.04	0.9930	-0.0001	-0.13
EMW6E8		0.9917	0.0007	1.13	0.9936	0.0005	0.84



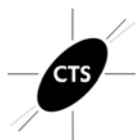
ASEV-CTS Wine Industry Interlaboratory Testing Program

Report #081

Fall 2025

Analysis 906 Specific Gravity

WebCode	Data Flag	Sample SA61			Sample SA62		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
EPFBLG		0.9910	0.0000	-0.04	0.9931	0.0000	0.03
EXQD8H		0.9911	0.0000	0.04	0.9931	0.0000	0.03
FJPA9A		0.9910	0.0000	0.01	0.9931	0.0000	-0.03
GAXBUA		0.9914	0.0004	0.67	0.9933	0.0002	0.39
GWWEY3		0.9911	0.0000	0.04	0.9932	0.0001	0.19
HZM9A9		0.9910	0.0000	0.01	0.9931	0.0000	0.01
J6GPY8		0.9912	0.0002	0.29	0.9931	0.0000	0.03
J7C8Z9		0.9910	-0.0001	-0.13	0.9928	-0.0003	-0.53
JDUDY2		0.9910	-0.0001	-0.13	0.9930	-0.0001	-0.13
K2WWM6		0.9913	0.0002	0.41	0.9934	0.0003	0.52
KXXLR6		0.9912	0.0002	0.29	0.9933	0.0002	0.35
M7JLXT		0.9917	0.0007	1.13	0.9936	0.0005	0.84
M8AU23		0.9912	0.0001	0.24	0.9933	0.0002	0.27
MGKWM4	X	0.9888	-0.0022	-3.73	0.9907	-0.0024	-3.85
MLAFH7		0.9917	0.0007	1.13	0.9938	0.0007	1.16
NQYEA7		0.9912	0.0002	0.29	0.9934	0.0003	0.43
NW7WXY		0.9911	0.0001	0.14	0.9932	0.0001	0.20
NWAGK3		0.9909	-0.0002	-0.29	0.9928	-0.0003	-0.45
PNAGLZ		0.9911	0.0000	0.07	0.9931	0.0000	0.01
PXVH4V		0.9924	0.0014	2.28	0.9943	0.0012	1.95
PXZ3RY		0.9903	-0.0007	-1.14	0.9921	-0.0010	-1.64
Q73V94	X	0.9912	0.0002	0.30	0.9879	-0.0052	-8.32
QCWDZ3		0.9911	0.0001	0.12	0.9931	0.0000	0.00
QNPZ7X		0.9914	0.0004	0.63	0.9936	0.0005	0.84
QPZ2RW		0.9912	0.0001	0.24	0.9933	0.0002	0.39
TNYNJU	X	0.9912	0.0001	0.25	0.9923	-0.0008	-1.27
UE8P7U		0.9911	0.0001	0.20	0.9932	0.0002	0.26
UTKADZ		0.9898	-0.0012	-2.05	0.9918	-0.0013	-2.07
VU2JCT		0.9913	0.0003	0.52	0.9934	0.0003	0.55
VUF4ZW	X	0.9932	0.0022	3.65	0.9936	0.0005	0.85
WFEQ2R	X	0.9910	0.0000	-0.04	0.9913	-0.0018	-2.88
WTYHEZ		0.9919	0.0009	1.46	0.9941	0.0010	1.56
XK3QYJ		0.9911	0.0000	0.04	0.9932	0.0001	0.11
XZF3NR		0.9913	0.0002	0.42	0.9934	0.0004	0.58
Y8WX6L	*	0.9890	-0.0020	-3.39	0.9910	-0.0021	-3.36



Analysis 906
Specific Gravity

Fall 2025

WebCode	Data Flag	Sample SA61			Sample SA62		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
YC7BMK		0.9910	0.0000	-0.04	0.9930	-0.0001	-0.13
YLUBYN		0.9917	0.0006	1.04	0.9937	0.0006	0.92
YRF4AM		0.9911	0.0001	0.10	0.9932	0.0001	0.15
YWUW6M		0.9912	0.0001	0.21	0.9932	0.0001	0.11
ZB6XEH		0.9911	0.0001	0.09	0.9931	0.0001	0.09

Grand Means

0.99103 sp gr 20/20 C

Summary Statistics

0.99308 sp gr 20/20 C

Std Dev Btwn Labs

0.00060 sp gr 20/20 C

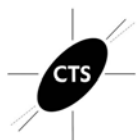
0.00062 sp gr 20/20 C

Statistics based on 64 of 75 reporting participants

Wines tested: SA61: Chardonnay; SA62: Sauvignon Blanc

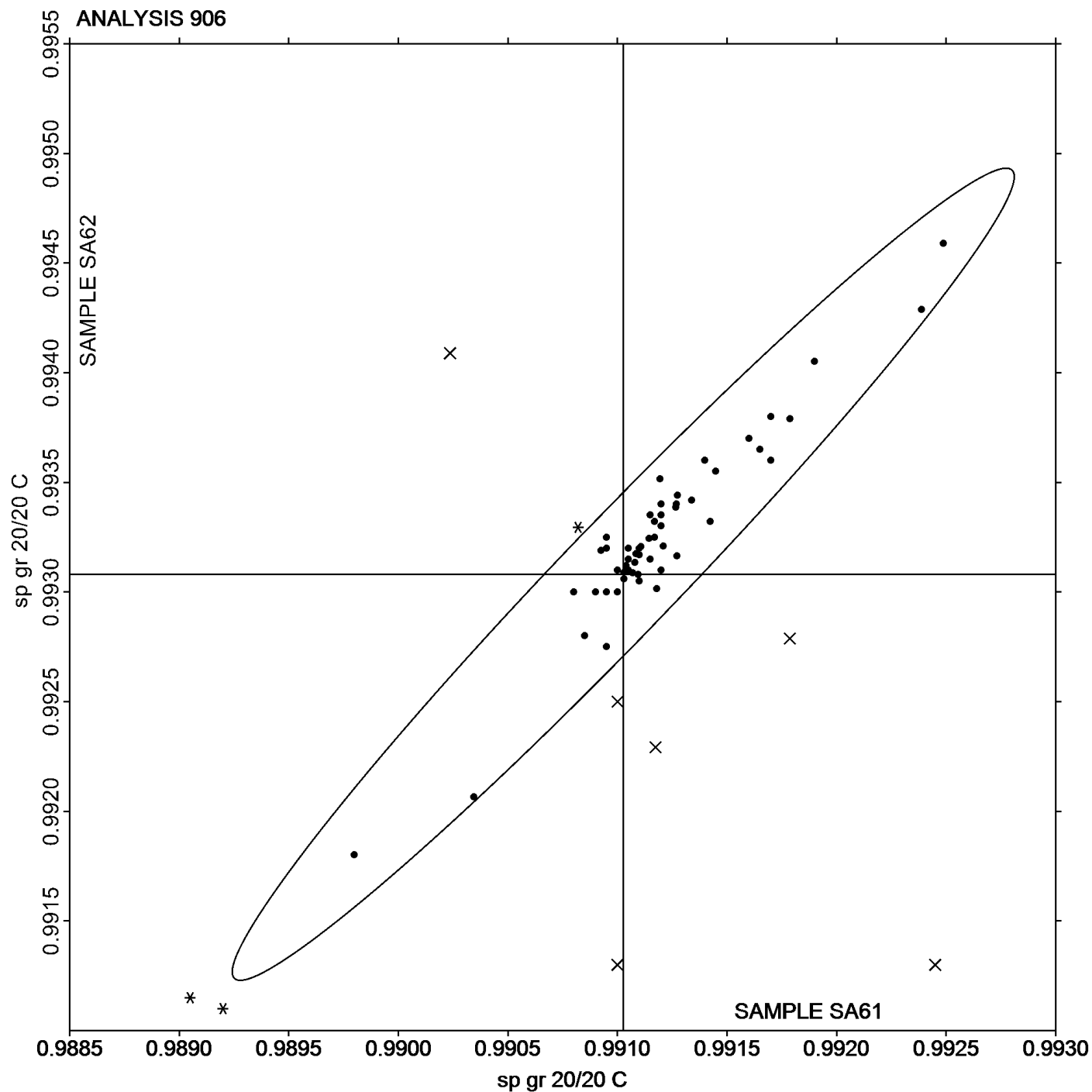
Comments on Assigned Data Flags for Test #906

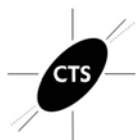
- VUF4ZW (X) - Data for sample SA61 are high. Inconsistent within the determinations of sample SA62.
- 33AG3J (X) - Data for both samples are low. Inconsistent within the determinations of sample SA62.
- TNYNJU (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample SA62.
- 7XHGDD (X) - Data for sample SA62 are low.
- MGKWM4 (X) - Data for both samples are low.
- 68CCVH (X) - Data for both samples are low.
- DJ227A (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample SA62.
- WFEQ2R (X) - Data for sample SA62 are low.
- Q73V94 (X) - Data for sample SA62 are low.
- 969XPM (X) - Inconsistent in testing between samples.
- 277UXV (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample SA62.



Analysis 906
Specific Gravity

Fall 2025

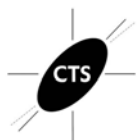




ASEV-CTS Wine Industry Interlaboratory Testing Program
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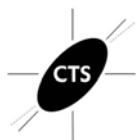
WebCode	Data Flag	Sample SA61			Sample SA62		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
277UXV	*	3.500	-0.016	-0.63	3.150	-0.053	-1.78
2MYGTN		3.537	0.021	0.84	3.230	0.027	0.91
33AEDE		3.545	0.029	1.16	3.230	0.027	0.91
33AG3J		3.505	-0.011	-0.43	3.200	-0.003	-0.10
3777JQ		3.500	-0.016	-0.63	3.190	-0.013	-0.43
3E3ZGP		3.485	-0.031	-1.22	3.190	-0.013	-0.43
3V98RK		3.530	0.014	0.56	3.220	0.017	0.57
63KZZL		3.487	-0.029	-1.14	3.184	-0.019	-0.65
68CCVH		3.470	-0.046	-1.82	3.150	-0.053	-1.78
6E6QAN		3.510	-0.006	-0.23	3.190	-0.013	-0.43
6UQWRH		3.485	-0.031	-1.22	3.190	-0.013	-0.43
79GJBF		3.470	-0.046	-1.82	3.135	-0.068	-2.28
7CFV7F		3.540	0.024	0.96	3.210	0.007	0.24
7J3J8D		3.535	0.019	0.76	3.225	0.022	0.74
7L7ERF		3.520	0.004	0.17	3.200	-0.003	-0.10
7REGXH		3.495	-0.021	-0.83	3.170	-0.033	-1.11
7XHGD	*	3.585	0.069	2.74	3.270	0.067	2.25
846QZG		3.515	-0.001	-0.03	3.200	-0.003	-0.10
8627CD		3.515	-0.001	-0.03	3.190	-0.013	-0.43
8B73WD		3.510	-0.006	-0.23	3.190	-0.013	-0.43
8DAXFG		3.540	0.024	0.96	3.245	0.042	1.41
8HLLFD	*	3.545	0.029	1.16	3.275	0.072	2.42
969XPM		3.540	0.024	0.96	3.215	0.012	0.41
9AP74E		3.490	-0.026	-1.02	3.180	-0.023	-0.77
A4EH4H		3.525	0.009	0.36	3.225	0.022	0.74
A7LXC9		3.490	-0.026	-1.02	3.180	-0.023	-0.77
A964JJ	*	3.570	0.054	2.15	3.230	0.027	0.91
AWDENJ		3.520	0.004	0.17	3.200	-0.003	-0.10
BCKTJL		3.485	-0.031	-1.22	3.180	-0.023	-0.77
BPTM3C		3.536	0.020	0.80	3.222	0.019	0.62
BRCTAL		3.505	-0.011	-0.43	3.200	-0.003	-0.10
C7GYBC	*	3.475	-0.041	-1.62	3.125	-0.078	-2.62
CAVUVF		3.515	-0.001	-0.03	3.220	0.017	0.57
CBRCTB		3.505	-0.011	-0.43	3.200	-0.003	-0.10
CPMRWB		3.510	-0.006	-0.23	3.190	-0.013	-0.43



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WebCode	Data Flag	Sample SA61			Sample SA62		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
CPQBKE	*	3.490	-0.026	-1.02	3.140	-0.063	-2.11
DJ227A		3.540	0.024	0.96	3.240	0.037	1.24
DTGZPJ		3.530	0.014	0.56	3.210	0.007	0.24
DVTKQ7		3.460	-0.056	-2.21	3.155	-0.048	-1.61
EEU8EH	*	3.450	-0.066	-2.61	3.130	-0.073	-2.45
EHYN3D		3.495	-0.021	-0.83	3.165	-0.038	-1.27
EMW6E8		3.480	-0.036	-1.42	3.190	-0.013	-0.43
EPFBLG		3.505	-0.011	-0.43	3.205	0.002	0.07
EXQD8H		3.505	-0.011	-0.43	3.195	-0.008	-0.27
GWWEY3		3.544	0.028	1.10	3.249	0.046	1.53
HZM9A9		3.505	-0.011	-0.43	3.180	-0.023	-0.77
J6GPY8		3.560	0.044	1.75	3.240	0.037	1.24
J7C8Z9		3.510	-0.006	-0.23	3.170	-0.033	-1.11
JDUDY2		3.510	-0.006	-0.23	3.185	-0.018	-0.60
JLMVA4		3.500	-0.016	-0.63	3.190	-0.013	-0.43
K2WWM6	*	3.585	0.069	2.74	3.270	0.067	2.25
KXXLR6		3.500	-0.016	-0.63	3.175	-0.028	-0.94
LFM9K8		3.530	0.014	0.56	3.225	0.022	0.74
M7JLXT		3.495	-0.021	-0.83	3.170	-0.033	-1.11
M8AU23		3.535	0.019	0.76	3.235	0.032	1.08
MGKWM4	X	3.520	0.004	0.17	3.155	-0.048	-1.61
MLAFH7		3.545	0.029	1.16	3.240	0.037	1.24
MZDR4X		3.530	0.014	0.56	3.220	0.017	0.57
NQYEA7		3.525	0.009	0.36	3.210	0.007	0.24
NW7WXY		3.520	0.004	0.17	3.200	-0.003	-0.10
NWAGK3		3.530	0.014	0.56	3.210	0.007	0.24
PDDBR3		3.530	0.014	0.56	3.215	0.012	0.41
PNAGLZ		3.525	0.009	0.36	3.220	0.017	0.57
PXVH4V		3.525	0.009	0.36	3.230	0.027	0.91
PXZ3RY		3.500	-0.016	-0.63	3.210	0.007	0.24
Q73V94		3.505	-0.011	-0.43	3.180	-0.023	-0.77
QCWDZ3		3.513	-0.003	-0.11	3.198	-0.005	-0.17
QNPZ7X		3.520	0.004	0.17	3.215	0.012	0.41
QPKFHV		3.515	-0.001	-0.03	3.210	0.007	0.24
QPZ2RW		3.510	-0.006	-0.23	3.190	-0.013	-0.43



ASEV-CTS Wine Industry Interlaboratory Testing Program
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WebCode	Data Flag	Sample SA61			Sample SA62		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
TKYDNU	*	3.480	-0.036	-1.42	3.200	-0.003	-0.10
TNYNJU	X	3.440	-0.076	-3.00	3.030	-0.173	-5.80
UTKADZ		3.540	0.024	0.96	3.225	0.022	0.74
VU2JCT		3.533	0.017	0.66	3.217	0.014	0.46
VUF4ZW		3.510	-0.006	-0.23	3.200	-0.003	-0.10
WFEQ2R	X	3.360	-0.156	-6.17	3.060	-0.143	-4.80
WTYHEZ		3.520	0.004	0.17	3.210	0.007	0.24
WUEQTU		3.525	0.009	0.36	3.190	-0.013	-0.43
XK3QYJ		3.520	0.004	0.17	3.205	0.002	0.07
XZF3NR		3.530	0.014	0.56	3.220	0.017	0.57
Y8WX6L		3.515	-0.001	-0.03	3.210	0.007	0.24
YC7BMK		3.545	0.029	1.16	3.225	0.022	0.74
YLUBYN		3.510	-0.006	-0.23	3.220	0.017	0.57
YRF4AM		3.535	0.019	0.76	3.230	0.027	0.91
YWUW6M		3.495	-0.021	-0.83	3.185	-0.018	-0.60
ZB6XEH		3.545	0.029	1.16	3.240	0.037	1.24

Grand Means

3.5158 pH

Summary Statistics

3.2029 pH

Std Dev Btwn Labs

0.0252 pH

0.0298 pH

Statistics based on 83 of 86 reporting participants

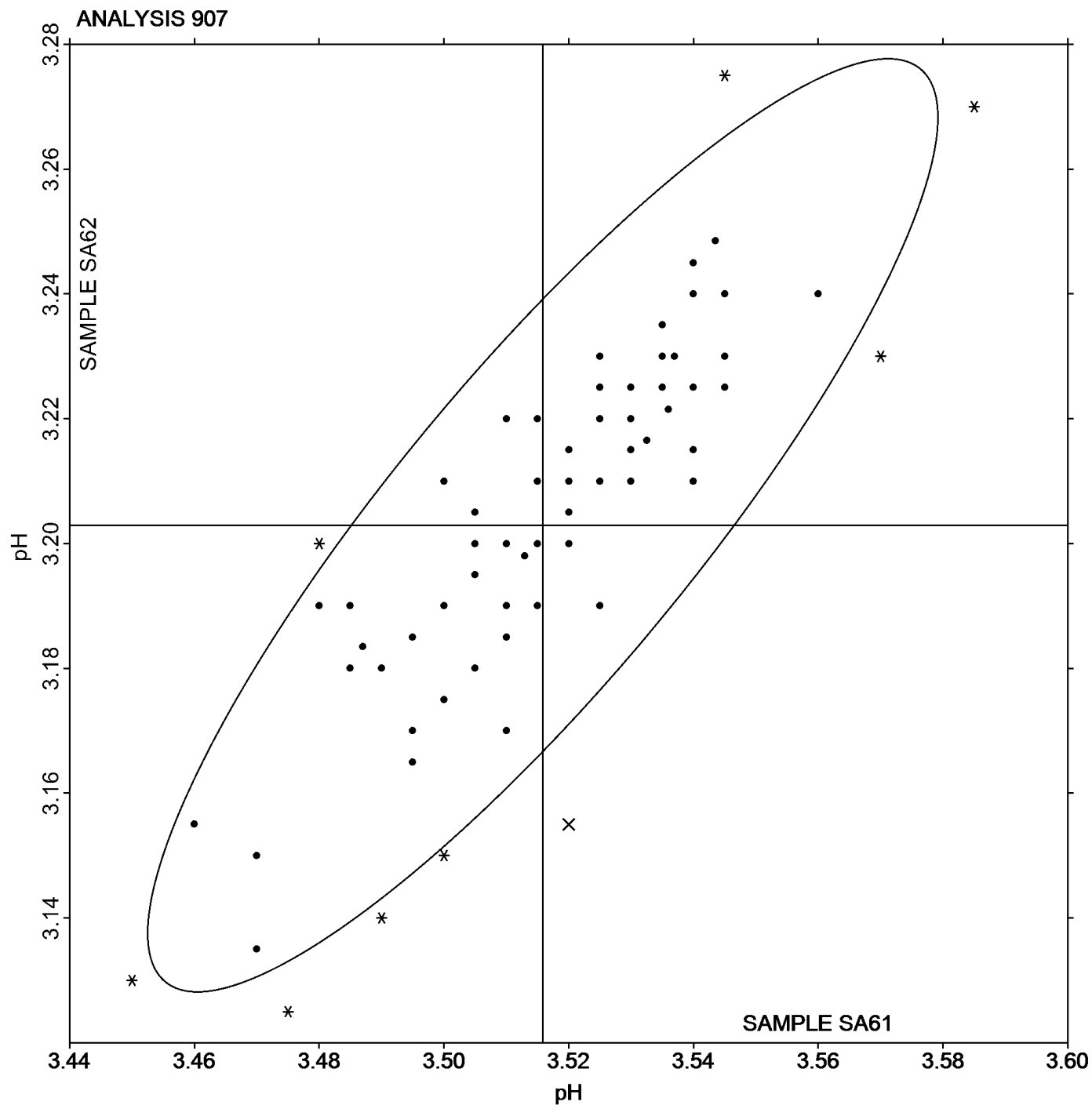
Wines tested: SA61: Chardonnay; SA62: Sauvignon Blanc

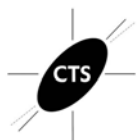
Comments on Assigned Data Flags for Test #907

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

MGKWM4 (X) - Inconsistent in testing between samples.

WFEQ2R (X) - Data for both samples are low. Possible Systematic Error.



Analysis 908
Residual Sugar

WebCode	Data Flag	Sample SA61			Sample SA62		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
277UXV		4.770	1.133	1.32	5.560	0.887	1.51
6E6QAN		3.650	0.013	0.02	4.750	0.077	0.13
6UQWRH		5.350	1.713	1.99	5.550	0.877	1.49
79GJBF		3.350	-0.287	-0.33	4.650	-0.023	-0.04
7REGXH		4.400	0.763	0.89	4.750	0.077	0.13
8B73WD		4.225	0.588	0.68	5.290	0.617	1.05
8DAXFG		3.395	-0.242	-0.28	4.615	-0.058	-0.10
A7LXC9		3.465	-0.172	-0.20	4.655	-0.018	-0.03
A964JJ		3.405	-0.232	-0.27	4.580	-0.093	-0.16
MGKWM4		5.100	1.463	1.70	5.450	0.777	1.32
NW7WXY	*	3.700	0.063	0.07	3.950	-0.723	-1.23
Q73V94		2.000	-1.637	-1.90	3.300	-1.373	-2.34
TNYNJU		2.550	-1.087	-1.26	4.000	-0.673	-1.15
UE8P7U		4.455	0.818	0.95	5.515	0.842	1.43
VUF4ZW		3.810	0.173	0.20	4.700	0.027	0.05
WFEQ2R		4.000	0.363	0.42	5.000	0.327	0.56
WUEQTU		2.555	-1.082	-1.26	4.335	-0.338	-0.58
XZF3NR		3.170	-0.467	-0.54	4.450	-0.223	-0.38
Y8WX6L		3.070	-0.567	-0.66	4.030	-0.643	-1.09
YC7BMK		3.050	-0.587	-0.68	4.400	-0.273	-0.46
ZB6XEH		2.900	-0.737	-0.86	4.600	-0.073	-0.12

Grand Means

3.6367 g/L

Summary Statistics

4.6729 g/L

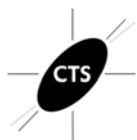
Std Dev Btwn Labs

0.8604 g/L

0.5874 g/L

Statistics based on 21 of 21 reporting participants

Wines tested: SA61: Chardonnay; SA62: Sauvignon Blanc



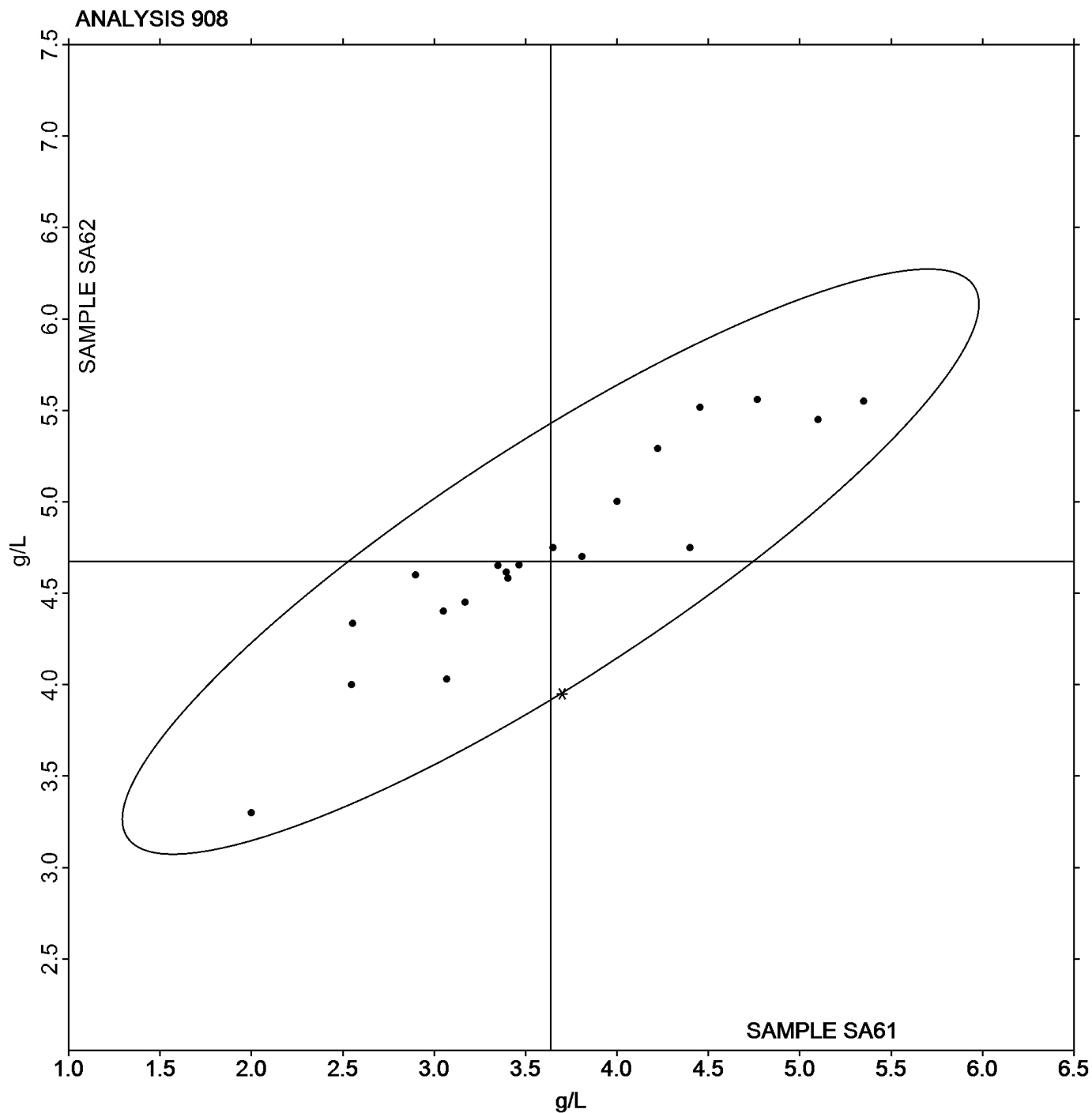
Results by Methodology (as reported by laboratory)

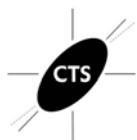
Test Methodology	Sample SA61 <i>Chardonnay</i>			Sample SA62 <i>Sauvignon Blanc</i>			Labs Incl / Rpt
	Group Mean	Btwn Lab STD	Diff from GM	Group Mean	Btwn Lab STD	Diff from GM	
Please specify method used	3.810	0.000	0.173	4.700	0.000	0.027	1/1
Cu Reduction Method	4.707	0.677	1.070	5.370	0.320	0.697	3/3
Segmented Flow	4.455	0.000	0.818	5.515	0.000	0.842	1/1
FTIR	3.293	0.769	-0.343	4.399	0.576	-0.273	9/9
Other	3.478	0.794	-0.159	4.601	0.440	-0.071	7/7



Analysis 908
Residual Sugar

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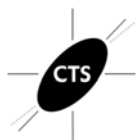
Report #081

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Analysis 909

L-Malic Acid

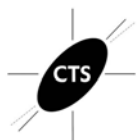
WebCode	Data Flag	Sample SA61			Sample SA62		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2MYGTN		1.210	0.092	1.34	4.482	0.582	2.10
33AEDE		1.160	0.043	0.62	3.915	0.016	0.06
33AG3J		1.045	-0.072	-1.05	3.745	-0.154	-0.56
3777JQ	*	1.095	-0.022	-0.33	3.235	-0.664	-2.40
3E3ZGP		1.095	-0.022	-0.33	3.820	-0.079	-0.29
3V98RK		1.100	-0.017	-0.25	4.000	0.101	0.36
63KZZL		1.208	0.090	1.31	4.432	0.533	1.92
68CCVH		1.020	-0.097	-1.42	3.900	0.001	0.00
6E6QAN		1.180	0.063	0.91	3.850	-0.049	-0.18
6UQWRH		1.070	-0.047	-0.69	3.840	-0.059	-0.21
79GJBF		1.070	-0.047	-0.69	3.475	-0.424	-1.53
7J3J8D		1.265	0.148	2.15	4.360	0.461	1.66
7L7ERF		1.085	-0.032	-0.47	3.550	-0.349	-1.26
7REGXH	X	1.510	0.393	5.72	4.690	0.791	2.85
7XHGD	*	1.065	-0.052	-0.76	3.275	-0.624	-2.25
846QZG		1.179	0.061	0.89	3.865	-0.035	-0.13
8627CD		1.040	-0.077	-1.13	3.825	-0.074	-0.27
8B73WD		1.170	0.053	0.77	4.120	0.221	0.80
8DAXFG		1.120	0.003	0.04	3.920	0.021	0.07
8HLLFD		1.120	0.003	0.04	3.925	0.026	0.09
9AP74E		1.133	0.015	0.22	3.877	-0.022	-0.08
A4EH4H	X	0.877	-0.240	-3.50	3.212	-0.687	-2.48
A7LXC9		1.105	-0.012	-0.18	3.640	-0.259	-0.94
A964JJ		1.070	-0.047	-0.69	3.705	-0.194	-0.70
AWDENJ	X	0.905	-0.212	-3.09	4.175	0.276	0.99
BCKTJL		1.095	-0.022	-0.33	3.770	-0.129	-0.47
BPTM3C		1.186	0.069	1.00	4.171	0.271	0.98
C7GYBC		1.090	-0.027	-0.40	3.770	-0.129	-0.47
CAVUVF		1.145	0.028	0.40	3.875	-0.024	-0.09
CBRCTB		1.085	-0.032	-0.47	4.070	0.171	0.62
CPMRWB		1.060	-0.057	-0.84	4.080	0.181	0.65
CPQBKE		1.025	-0.092	-1.34	3.600	-0.299	-1.08
DJ227A		1.125	0.008	0.11	3.855	-0.044	-0.16
DTGZPJ		1.160	0.043	0.62	4.170	0.271	0.98
DVTKQ7		1.178	0.060	0.88	4.170	0.270	0.97



ASEV-CTS Wine Industry Interlaboratory Testing Program
Analysis 909
L-Malic Acid

Report #081
Fall 2025

WebCode	Data Flag	Sample SA61			Sample SA62		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
EEU8EH		1.177	0.060	0.87	4.324	0.425	1.53
EHYN3D		1.177	0.059	0.86	3.905	0.006	0.02
EMW6E8		1.140	0.023	0.33	3.880	-0.019	-0.07
EPFBLG		1.065	-0.052	-0.76	3.845	-0.054	-0.20
EXQD8H		1.105	-0.012	-0.18	3.775	-0.124	-0.45
GWWEY3		1.105	-0.012	-0.18	3.889	-0.011	-0.04
HZM9A9		1.200	0.083	1.20	4.313	0.413	1.49
J6GPY8	X	1.205	0.088	1.28	2.600	-1.299	-4.69
J7C8Z9	X	1.375	0.258	3.75	4.290	0.391	1.41
JDUDY2		1.055	-0.062	-0.91	3.855	-0.044	-0.16
JLMVA4		1.090	-0.027	-0.40	3.930	0.031	0.11
K2WWM6	X	1.055	-0.062	-0.91	2.475	-1.424	-5.14
KXXLR6		1.085	-0.032	-0.47	3.870	-0.029	-0.11
LFM9K8		1.020	-0.097	-1.42	3.585	-0.314	-1.13
M7JLXT		1.129	0.011	0.16	3.776	-0.124	-0.45
M8AU23		1.080	-0.037	-0.54	3.855	-0.044	-0.16
MGKWM4	X	1.674	0.557	8.10	4.746	0.846	3.05
MLAFH7		1.070	-0.047	-0.69	3.665	-0.234	-0.85
MZDR4X		1.210	0.093	1.35	3.900	0.001	0.00
NQYEA7		1.233	0.115	1.68	4.350	0.450	1.62
NW7WXY		1.180	0.063	0.91	4.240	0.341	1.23
NWAGK3		1.095	-0.022	-0.33	4.010	0.111	0.40
PDDBR3		1.140	0.023	0.33	4.015	0.116	0.42
PNAGLZ		1.085	-0.032	-0.47	3.685	-0.214	-0.77
PXVH4V		1.055	-0.062	-0.91	3.730	-0.169	-0.61
PXZ3RY		1.080	-0.037	-0.54	4.090	0.191	0.69
Q73V94		1.030	-0.087	-1.27	3.825	-0.074	-0.27
QCWDZ3		1.240	0.122	1.78	4.544	0.644	2.32
QNPZ7X		1.173	0.056	0.81	4.232	0.332	1.20
QPKFHV		1.140	0.023	0.33	4.000	0.101	0.36
QPZ2RW		1.246	0.129	1.87	3.977	0.077	0.28
TKYDNU		1.123	0.005	0.07	3.633	-0.266	-0.96
TNYNJU	*	1.310	0.193	2.80	4.405	0.506	1.82
UTKADZ		1.090	-0.027	-0.40	3.705	-0.194	-0.70
VU2JCT		1.050	-0.067	-0.98	3.560	-0.339	-1.22



ASEV-CTS Wine Industry Interlaboratory Testing Program
Analysis 909
L-Malic Acid

Report #081
Fall 2025

WebCode	Data Flag	Sample SA61			Sample SA62		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
VUF4ZW		1.055	-0.062	-0.91	3.732	-0.167	-0.60
WFEQ2R	X	1.755	0.638	9.28	4.755	0.856	3.09
WTYHEZ		1.095	-0.022	-0.33	3.905	0.006	0.02
XBGPGN		1.119	0.002	0.02	4.309	0.410	1.48
XK3QYJ		1.194	0.076	1.11	3.932	0.032	0.12
XZF3NR		0.985	-0.132	-1.93	3.615	-0.284	-1.03
Y8WX6L		1.050	-0.067	-0.98	3.265	-0.634	-2.29
YC7BMK		1.085	-0.032	-0.47	3.915	0.016	0.06
YLUBYN		1.080	-0.037	-0.54	3.855	-0.044	-0.16
YRF4AM	*	0.930	-0.187	-2.73	3.360	-0.539	-1.95
YWUW6M		1.220	0.103	1.49	4.020	0.121	0.43
ZB6XEH		1.145	0.028	0.40	4.005	0.106	0.38

Grand Means

1.1174 g/L

Summary Statistics

3.8995 g/L

Std Dev Btwn Labs

0.0687 g/L

0.2772 g/L

Statistics based on 74 of 82 reporting participants

Wines tested: SA61: Chardonnay; SA62: Sauvignon Blanc

Comments on Assigned Data Flags for Test #909

A4EH4H (X) - Data for sample SA61 are low.

J6GPY8 (X) - Data for sample SA62 are low.

J7C8Z9 (X) - Data for sample SA61 are high.

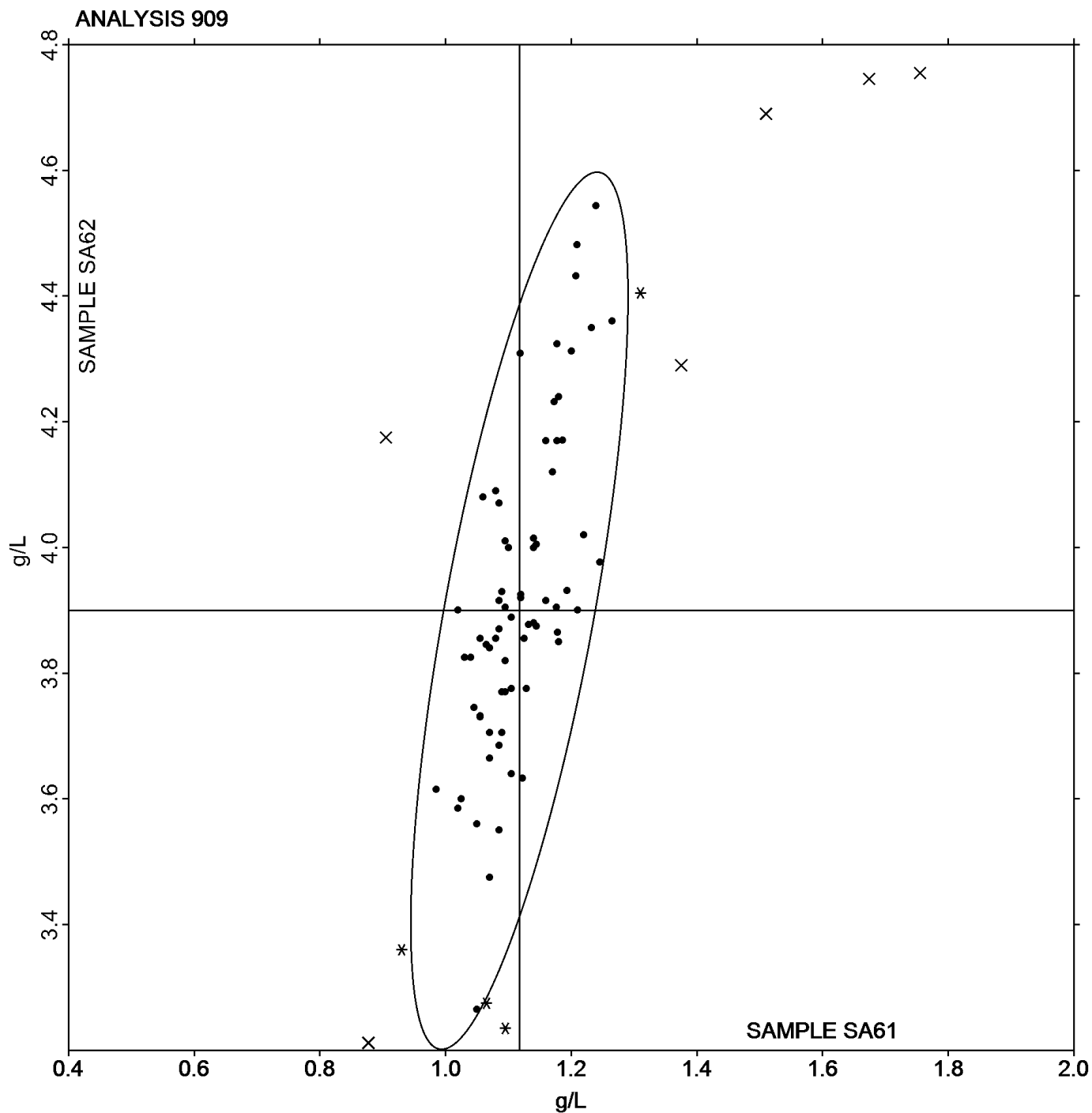
K2WWM6 (X) - Data for sample SA62 are low.

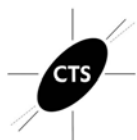
MGKWM4 (X) - Data for both samples are high.

WFEQ2R (X) - Data for both samples are high.

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

AWDENJ (X) - Data for sample SA61 are low. Inconsistent within the determinations of sample SA61.





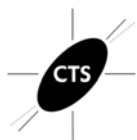
ASEV-CTS Wine Industry Interlaboratory Testing Program

Report #081

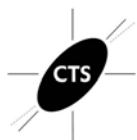
Analysis 910 Glucose + Fructose

Fall 2025

WebCode	Data Flag	Sample SA61			Sample SA62		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2MYGTN		3.680	0.234	1.30	4.965	0.331	1.47
33AEDE		3.660	0.214	1.19	4.785	0.151	0.67
33AG3J		3.605	0.159	0.88	4.840	0.206	0.92
3777JQ		3.145	-0.301	-1.67	4.190	-0.444	-1.97
3E3ZGP		3.450	0.004	0.02	4.700	0.066	0.29
3V98RK		3.380	-0.066	-0.37	4.580	-0.054	-0.24
63KZZL		3.400	-0.046	-0.25	4.600	-0.034	-0.15
68CCVH	X	2.550	-0.896	-4.97	3.600	-1.034	-4.59
6E6QAN	*	3.285	-0.161	-0.89	4.650	0.016	0.07
6UQWRH	*	3.030	-0.416	-2.31	3.980	-0.654	-2.90
79GJBF	X	3.730	0.284	1.57	5.223	0.589	2.62
7CFV7F		3.420	-0.026	-0.14	4.635	0.001	0.01
7J3J8D		3.640	0.194	1.08	4.755	0.121	0.54
7L7ERF		3.385	-0.061	-0.34	4.695	0.061	0.27
7REGXH	X	2.800	-0.646	-3.58	4.100	-0.534	-2.37
7XHGDD		3.575	0.129	0.72	4.830	0.196	0.87
846QZG		3.443	-0.003	-0.02	4.601	-0.033	-0.15
8627CD		3.290	-0.156	-0.86	4.440	-0.194	-0.86
8B73WD		3.415	-0.031	-0.17	4.580	-0.054	-0.24
8DAXFG		3.395	-0.051	-0.28	4.615	-0.019	-0.08
8HLLFD		3.440	-0.006	-0.03	4.525	-0.109	-0.48
9AP74E		3.550	0.104	0.58	4.750	0.116	0.52
A7LXC9		3.455	0.009	0.05	4.655	0.021	0.09
AWDENJ	X	2.850	-0.596	-3.31	4.200	-0.434	-1.93
BCKTJL		3.590	0.144	0.80	4.735	0.101	0.45
BPTM3C		3.625	0.179	0.99	4.795	0.161	0.72
BRCTAL		3.200	-0.246	-1.36	4.300	-0.334	-1.48
C7GYBC		3.700	0.254	1.41	4.795	0.161	0.72
CAVUVF		3.685	0.239	1.33	4.930	0.296	1.31
CBRCTB		3.300	-0.146	-0.81	4.550	-0.084	-0.37
CPMRWB		3.500	0.054	0.30	4.750	0.116	0.52
CPQBKE		3.500	0.054	0.30	4.600	-0.034	-0.15
DJ227A		3.400	-0.046	-0.25	4.575	-0.059	-0.26
DTGZPJ		3.530	0.084	0.47	4.680	0.046	0.20
DVTKQ7		3.650	0.204	1.13	4.800	0.166	0.74

**ASEV-CTS Wine Industry Interlaboratory Testing Program****Report #081****Fall 2025****Analysis 910
Glucose + Fructose**

WebCode	Data Flag	Sample SA61			Sample SA62		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
EEU8EH		3.700	0.254	1.41	5.000	0.366	1.63
EHYN3D		3.700	0.254	1.41	5.100	0.466	2.07
EMW6E8		3.450	0.004	0.02	4.650	0.016	0.07
EPFBLG		3.380	-0.066	-0.37	4.730	0.096	0.43
EXQD8H	X	3.305	-0.141	-0.78	4.775	0.141	0.63
GAXBUA		3.500	0.054	0.30	4.650	0.016	0.07
GWWEY3		3.070	-0.376	-2.09	4.110	-0.524	-2.33
HZM9A9		3.800	0.354	1.96	5.050	0.416	1.85
J6GPY8		3.450	0.004	0.02	4.700	0.066	0.29
J7C8Z9		3.200	-0.246	-1.36	4.450	-0.184	-0.82
JDUDY2		3.200	-0.246	-1.36	4.400	-0.234	-1.04
JLMVA4		3.345	-0.101	-0.56	4.625	-0.009	-0.04
K2WWM6		3.620	0.174	0.97	4.800	0.166	0.74
KXXLR6		3.425	-0.021	-0.12	4.600	-0.034	-0.15
LFM9K8		3.245	-0.201	-1.11	4.355	-0.279	-1.24
M7JLXT		3.345	-0.101	-0.56	4.471	-0.163	-0.72
M8AU23		3.260	-0.186	-1.03	4.375	-0.259	-1.15
MGKWM4	*	3.100	-0.346	-1.92	4.400	-0.234	-1.04
MLAFH7		3.400	-0.046	-0.25	4.660	0.026	0.12
MZDR4X		3.600	0.154	0.86	4.800	0.166	0.74
NQYEA7		3.710	0.264	1.47	4.888	0.254	1.13
NW7WXY		3.500	0.054	0.30	4.750	0.116	0.52
NWAGK3		3.300	-0.146	-0.81	4.500	-0.134	-0.59
PDDBR3		3.690	0.244	1.35	4.905	0.271	1.20
PNAGLZ		3.320	-0.126	-0.70	4.370	-0.264	-1.17
PXVH4V		3.325	-0.121	-0.67	4.420	-0.214	-0.95
PXZ3RY		3.590	0.144	0.80	4.805	0.171	0.76
Q73V94		3.135	-0.311	-1.72	4.195	-0.439	-1.95
QCWDZ3		3.490	0.044	0.24	4.730	0.096	0.43
QNPZ7X		3.700	0.254	1.41	4.900	0.266	1.18
QPKFHV		3.620	0.174	0.97	4.875	0.241	1.07
QPZ2RW		3.100	-0.346	-1.92	4.320	-0.314	-1.39
TKYDNU		3.455	0.009	0.05	4.615	-0.019	-0.08
TNYNJU		3.535	0.089	0.49	4.860	0.226	1.00
UE8P7U		3.495	0.049	0.27	4.755	0.121	0.54



Analysis 910
Glucose + Fructose

WebCode	Data Flag	Sample SA61			Sample SA62		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
UTKADZ		3.350	-0.096	-0.53	4.540	-0.094	-0.42
VU2JCT		3.530	0.084	0.47	4.735	0.101	0.45
VUF4ZW		3.630	0.184	1.02	5.000	0.366	1.63
WFEQ2R		3.500	0.054	0.30	4.500	-0.134	-0.59
WTYHEZ		3.315	-0.131	-0.73	4.605	-0.029	-0.13
WUEQTU	X	2.525	-0.921	-5.11	4.335	-0.299	-1.33
XBGPGN		3.300	-0.146	-0.81	4.400	-0.234	-1.04
XK3QYJ		3.400	-0.046	-0.25	4.550	-0.084	-0.37
Y8WX6L	*	3.070	-0.376	-2.09	4.030	-0.604	-2.68
YC7BMK		3.550	0.104	0.58	4.700	0.066	0.29
YLUBYN		3.350	-0.096	-0.53	4.550	-0.084	-0.37
YRF4AM		3.405	-0.041	-0.23	4.560	-0.074	-0.33
YWUW6M	*	3.700	0.254	1.41	4.750	0.116	0.52
ZB6XEH		3.600	0.154	0.86	4.825	0.191	0.85

Grand Means

3.4459 g/L

Summary Statistics

4.6338 g/L

Std Dev Btwn Labs

0.1802 g/L

0.2253 g/L

Statistics based on 78 of 84 reporting participants

Wines tested: SA61: Chardonnay; SA62: Sauvignon Blanc

Comments on Assigned Data Flags for Test #910

WUEQTU (X) - Data for sample SA61 are low.

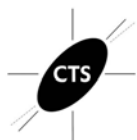
68CCVH (X) - Data for both samples are low.

79GJBF (X) - Inconsistent in testing between samples.

7REGXH (X) - Data for sample SA61 are low.

EXQD8H (X) - Inconsistent in testing between samples.

AWDENJ (X) - Data for sample SA61 are low.

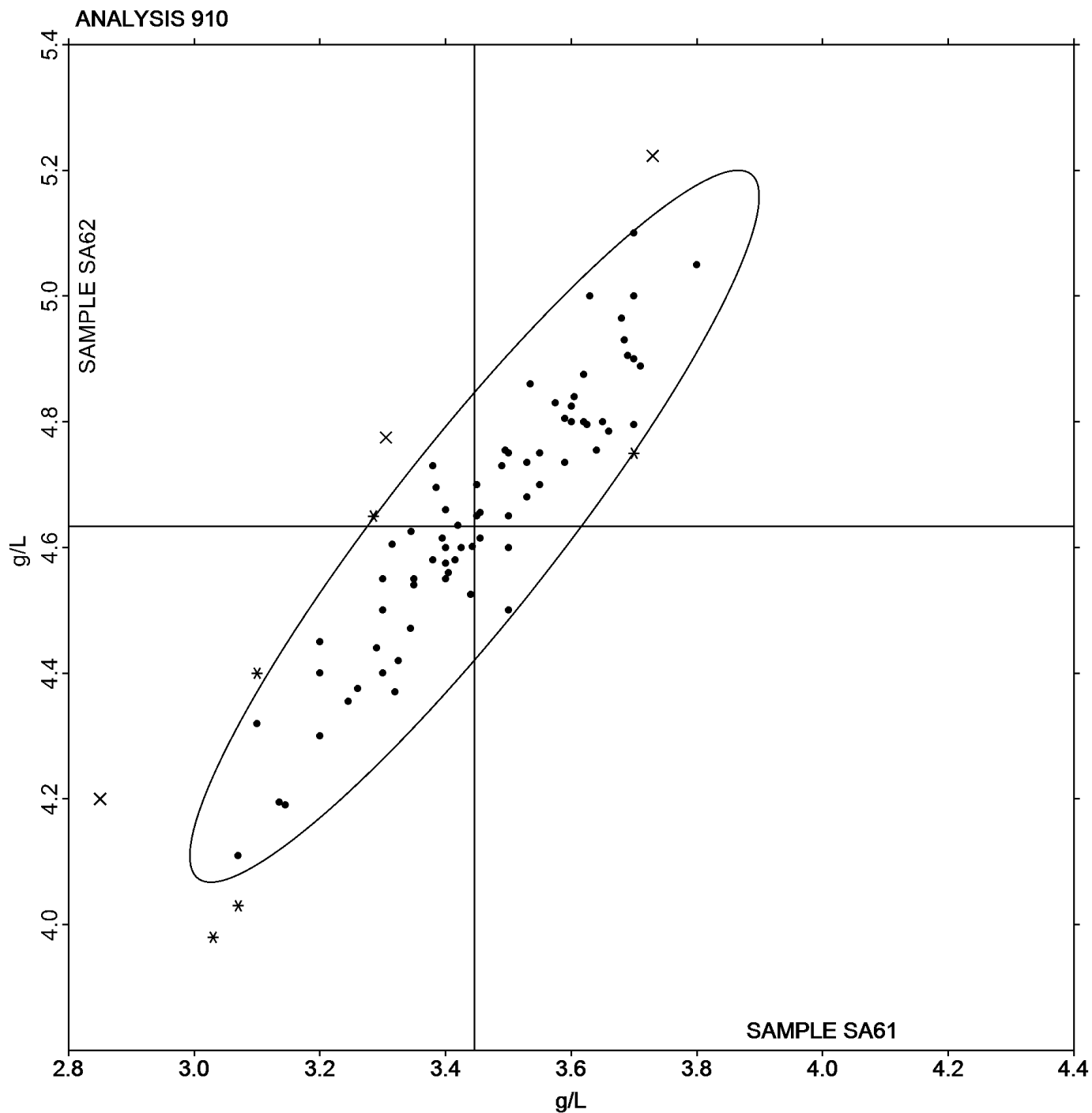


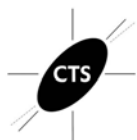
Results by Methodology (as reported by laboratory)

Test Methodology	Sample SA61 <i>Chardonnay</i>			Sample SA62 <i>Sauvignon Blanc</i>			Labs Incl / Rpt
	Group Mean	Btwn Lab STD	Diff from GM	Group Mean	Btwn Lab STD	Diff from GM	
HPLC	3.498	0.004	0.052	4.703	0.074	0.069	2/2
Enzymatic/Spectrophotometric	3.452	0.179	0.006	4.640	0.229	0.006	73/78
FTIR	3.350	0.212	-0.096	4.475	0.035	-0.159	2/3
Other	3.100	0.000	-0.346	4.400	0.000	-0.234	1/1



Analysis 910
Glucose + Fructose





Analysis 911
Copper Content

WebCode	Data Flag	Sample SA61			Sample SA62		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2MYGTN		0.1000	0.0613	1.70	0.6000	0.2081	2.38
3777JQ		0.0010	-0.0377	-1.05	0.4110	0.0191	0.22
6UQWRH		0.0350	-0.0037	-0.10	0.4450	0.0531	0.61
79GJBF		0.0030	-0.0357	-0.99	0.3905	-0.0014	-0.02
7REGXH		0.0320	-0.0067	-0.19	0.3305	-0.0614	-0.70
846QZG		0.0950	0.0563	1.56	0.2450	-0.1469	-1.68
8B73WD		0.0134	-0.0254	-0.70	0.2780	-0.1139	-1.30
BRCTAL		0.0933	0.0546	1.52	0.4355	0.0436	0.50
CPMRWB		0.0085	-0.0302	-0.84	0.3805	-0.0114	-0.13
EEU8EH		0.0200	-0.0187	-0.52	0.3800	-0.0119	-0.14
EHYN3D		0.0500	0.0113	0.31	0.3650	-0.0269	-0.31
HZM9A9	M	No data reported for this sample			0.4100	0.0181	0.21
K2WWM6	M	No data reported for this sample			0.3200	-0.0719	-0.82
MGKWM4	M	No data reported for this sample			0.0130	-0.3789	-4.33
NW7WXY	M	No data reported for this sample			0.1700	-0.2219	-2.54
NWAGK3		0.0090	-0.0297	-0.83	0.3475	-0.0444	-0.51
PXZ3RY		0.0100	-0.0287	-0.80	0.4500	0.0581	0.66
Q73V94		0.0600	0.0213	0.59	0.5225	0.1306	1.49
QCWDZ3		0.0092	-0.0296	-0.82	0.3391	-0.0528	-0.60
UE8P7U	M	No data reported for this sample			0.3700	-0.0219	-0.25
WFEQ2R		0.0800	0.0413	1.15	0.3500	-0.0419	-0.48

Grand Means

0.03871 mg/L

Summary Statistics

0.39188 mg/L

Std Dev Btwn Labs

0.03599 mg/L

0.08743 mg/L

Statistics based on 16 of 21 reporting participants

Wines tested: SA61: Chardonnay; SA62: Sauvignon Blanc

Comments on Assigned Data Flags for Test #911

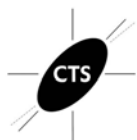
HZM9A9 (M) - Participant did not submit data for sample SA61.

UE8P7U (M) - Participant did not submit data for sample SA61.

K2WWM6 (M) - Participant did not submit data for sample SA61.

NW7WXY (M) - Participant did not submit data for sample SA61.

MGKWM4 (M) - Participant did not submit data for sample SA61.



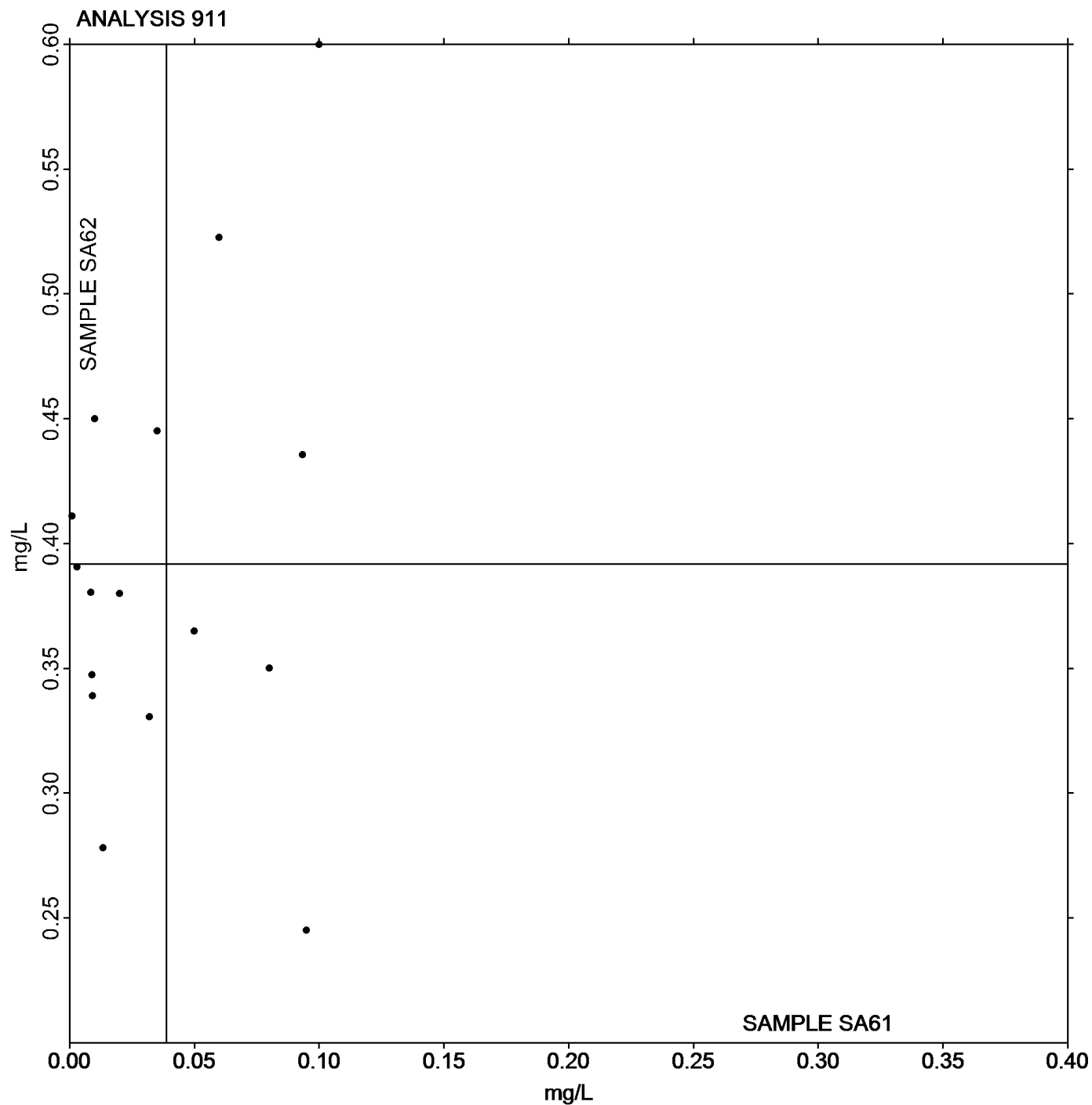
Analysis 911
Copper Content

Results by Methodology (as reported by laboratory)

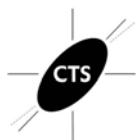
Test Methodology	Sample SA61 <i>Chardonnay</i>			Sample SA62 <i>Sauvignon Blanc</i>			Labs Incl / Rpt
	Group Mean	Btwn Lab STD	Diff from GM	Group Mean	Btwn Lab STD	Diff from GM	
Please specify method used							0/1
Atomic Absorption Spectroscopy	0.052	0.038	0.0131	0.439	0.085	0.0474	8/8
ICP	0.013	0.010	-0.0262	0.344	0.040	-0.0475	6/8
FTIR	0.035	0.000	-0.0037	0.445	0.000	0.0531	1/1
Other							0/1
Colorimetric Analysis	0.095	0.000	0.0563	0.245	0.000	-0.1469	1/2



Analysis 911
Copper Content



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

Analysis 912
Potassium (K) Content

WebCode	Data Flag	Sample SA61			Sample SA62		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
33AEDE		829.5	40.4	0.48	685.0	33.5	0.60
79GJBF		678.8	-110.4	-1.31	637.0	-14.6	-0.26
7REGXH		707.5	-81.6	-0.97	587.0	-64.5	-1.17
846QZG		898.0	108.9	1.29	693.0	41.5	0.75
8627CD		924.5	135.4	1.61	692.5	41.0	0.74
8B73WD		840.0	50.9	0.60	635.0	-16.5	-0.30
AWDENJ		869.0	79.9	0.95	748.0	96.5	1.74
CPMRWB		794.0	4.9	0.06	667.5	16.0	0.29
GAXBUA		759.0	-30.1	-0.36	627.5	-24.0	-0.43
HZM9A9		716.5	-72.6	-0.86	612.5	-39.0	-0.71
K2WWM6		712.7	-76.4	-0.91	571.8	-79.8	-1.44
M8AU23		778.0	-11.1	-0.13	618.5	-33.0	-0.60
NW7WXY		843.0	53.9	0.64	678.0	26.5	0.48
NWAGK3		739.4	-49.7	-0.59	627.8	-23.8	-0.43
Q73V94		855.5	66.4	0.79	711.7	60.2	1.09
QCWDZ3		751.3	-37.8	-0.45	616.2	-35.4	-0.64
UE8P7U		716.5	-72.6	-0.86	607.0	-44.5	-0.81
WFEQ2R		650.0	-139.1	-1.65	590.0	-61.5	-1.11
XZF3NR		930.0	140.9	1.67	773.5	122.0	2.20

Grand Means

789.11 mg/L

Summary Statistics

651.55 mg/L

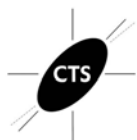
Std Dev Btwn Labs

84.16 mg/L

55.31 mg/L

Statistics based on 19 of 19 reporting participants

Wines tested: SA61: Chardonnay; SA62: Sauvignon Blanc

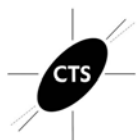


Analysis 912

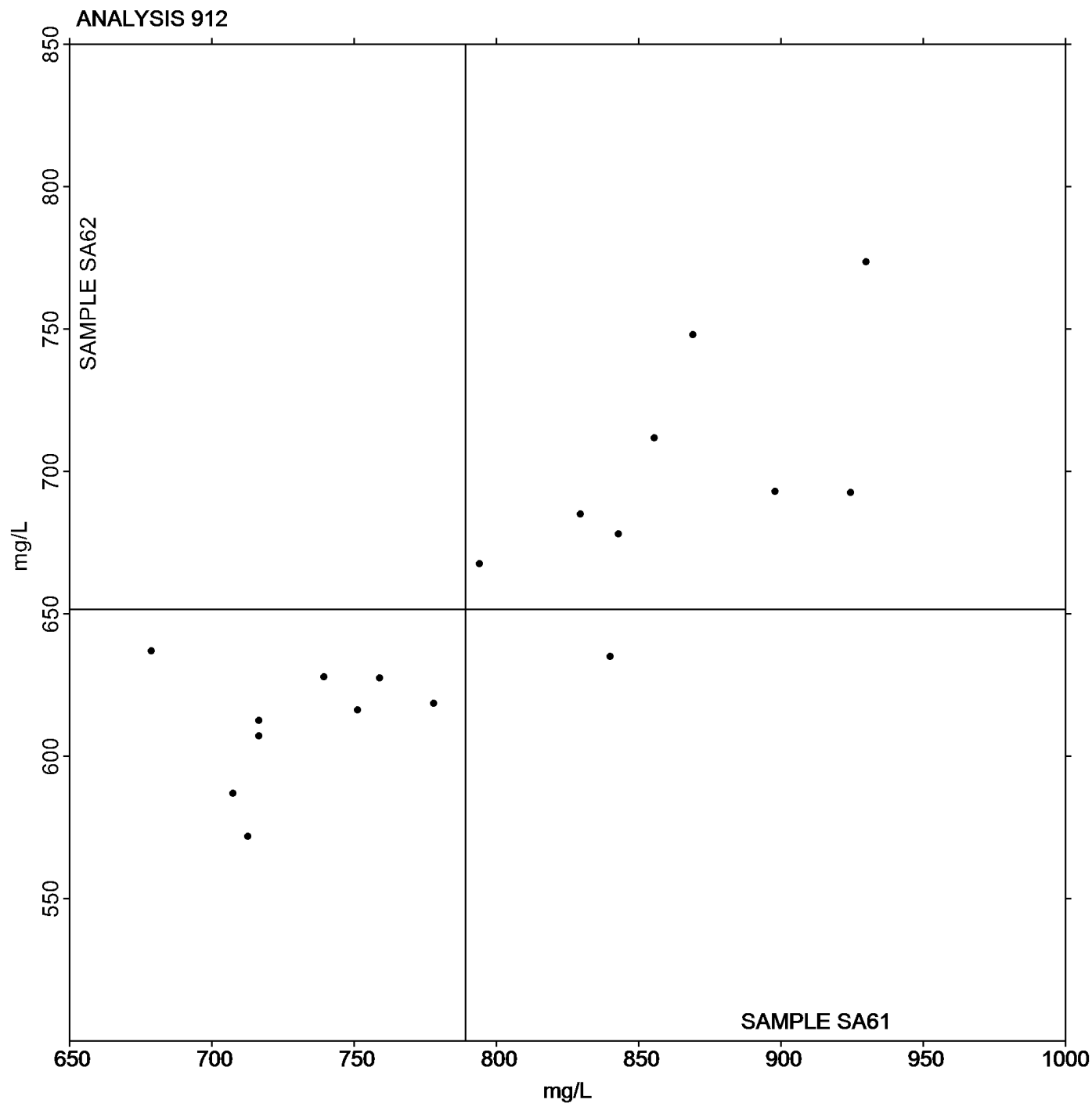
Potassium (K) Content

Results by Methodology (as reported by laboratory)

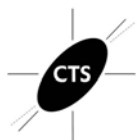
Test Methodology	Sample SA61 <i>Chardonnay</i>			Sample SA62 <i>Sauvignon Blanc</i>			Labs Incl / Rpt
	Group Mean	Btwn Lab STD	Diff from GM	Group Mean	Btwn Lab STD	Diff from GM	
Atomic Absorption Spectroscopy	754.833	102.813	-34.3	643.067	62.325	-8.5	3/3
ICP	742.999	51.940	-46.1	623.735	24.043	-27.8	8/8
Other	853.134	88.800	64.0	694.158	77.870	42.6	5/5
Colorimetric Analysis	839.667	60.069	50.6	663.167	39.403	11.6	3/3



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.



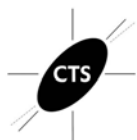
ASEV-CTS Wine Industry Interlaboratory Testing Program

Report #081

Fall 2025

Analysis 915 A420nm (1cm path)

WebCode	Data Flag	Sample SA61			Sample SA62		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
277UXV	X	1.1635	1.0487	120.82	1.1065	1.0367	193.32
2MYGTN		0.1198	0.0050	0.57	0.0710	0.0011	0.21
33AG3J		0.1000	-0.0148	-1.71	0.0600	-0.0098	-1.83
3777JQ		0.1220	0.0072	0.83	0.0760	0.0062	1.15
3E3ZGP	X	0.0835	-0.0313	-3.61	0.0380	-0.0318	-5.94
68CCVH		0.1080	-0.0068	-0.78	0.0640	-0.0058	-1.09
6UQWRH		0.1195	0.0047	0.54	0.0710	0.0012	0.22
79GJBF		0.1205	0.0057	0.66	0.0755	0.0057	1.06
7REGXH		0.1110	-0.0038	-0.44	0.0650	-0.0048	-0.90
846QZG	X	0.2850	0.1702	19.61	0.2525	0.1827	34.07
8627CD	X	0.1348	0.0200	2.30	0.1187	0.0488	9.10
8B73WD		0.1090	-0.0058	-0.67	0.0645	-0.0053	-0.99
969XPM		0.1155	0.0007	0.08	0.0705	0.0007	0.12
A7LXC9	X	0.1118	-0.0031	-0.35	0.0815	0.0117	2.18
AWDENJ	X	0.1000	-0.0148	-1.71	0.0700	0.0002	0.03
BPTM3C		0.1180	0.0032	0.37	0.0700	0.0002	0.03
CPMRWB		0.1130	-0.0018	-0.21	0.0700	0.0002	0.03
CPQBKE	X	0.1190	0.0042	0.48	0.1030	0.0332	6.19
HZM9A9		0.1235	0.0087	1.00	0.0760	0.0062	1.15
J6GPY8		0.1029	-0.0120	-1.38	0.0639	-0.0060	-1.12
J7C8Z9		0.0950	-0.0198	-2.28	0.0595	-0.0103	-1.93
JDUDY2		0.1110	-0.0038	-0.44	0.0690	-0.0008	-0.15
JLMVA4		0.1270	0.0122	1.40	0.0790	0.0092	1.71
K2WWM6		0.1190	0.0042	0.48	0.0715	0.0017	0.31
LFM9K8		0.1205	0.0057	0.66	0.0715	0.0017	0.31
M7JLXT		0.1103	-0.0046	-0.53	0.0658	-0.0041	-0.76
M8AU23		0.1175	0.0027	0.31	0.0720	0.0022	0.40
MGKWM4	X	0.1675	0.0527	6.07	0.0740	0.0042	0.78
MZDR4X		0.1170	0.0022	0.25	0.0710	0.0012	0.22
NW7WXY		0.1240	0.0092	1.06	0.0760	0.0062	1.15
NWAGK3		0.1250	0.0102	1.17	0.0770	0.0072	1.34
PNAGLZ		0.1180	0.0032	0.37	0.0710	0.0012	0.22
Q73V94		0.1255	0.0107	1.23	0.0770	0.0072	1.34
TNYNJU		0.0950	-0.0198	-2.28	0.0600	-0.0098	-1.83
VU2JCT		0.1185	0.0037	0.43	0.0695	-0.0003	-0.06

Analysis 915
A420nm (1cm path)

WebCode	Data Flag	Sample SA61			Sample SA62		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
VUF4ZW		0.1045	-0.0103	-1.19	0.0645	-0.0053	-0.99
WFEQ2R		0.1195	0.0047	0.54	0.0750	0.0052	0.96
XZF3NR		0.1040	-0.0108	-1.25	0.0640	-0.0058	-1.09
YC7BMK	M	0.1000	-0.0148	-1.71	No data reported for this sample		
YLUBYN		0.1190	0.0042	0.48	0.0735	0.0037	0.68
ZB6XEH		0.1210	0.0062	0.71	0.0705	0.0007	0.12

Grand Means

0.11481 Absorbance Units

Summary Statistics

0.06983 Absorbance Units

Std Dev Btwn Labs

0.00868 Absorbance Units

0.00536 Absorbance Units

Statistics based on 32 of 41 reporting participants

Wines tested: SA61: Chardonnay; SA62: Sauvignon Blanc

Comments on Assigned Data Flags for Test #915

3E3ZGP (X) - Data for both samples are low.

CPQBKE (X) - Data for sample SA62 are high.

846QZG (X) - Data for both samples are high.

YC7BMK (M) - Participant did not submit data for sample SA62.

A7LXC9 (X) - Inconsistent in testing between samples. Inconsistent within the determinations of both samples.

8627CD (X) - Data for sample SA62 are high. Inconsistent within the determinations of both samples.

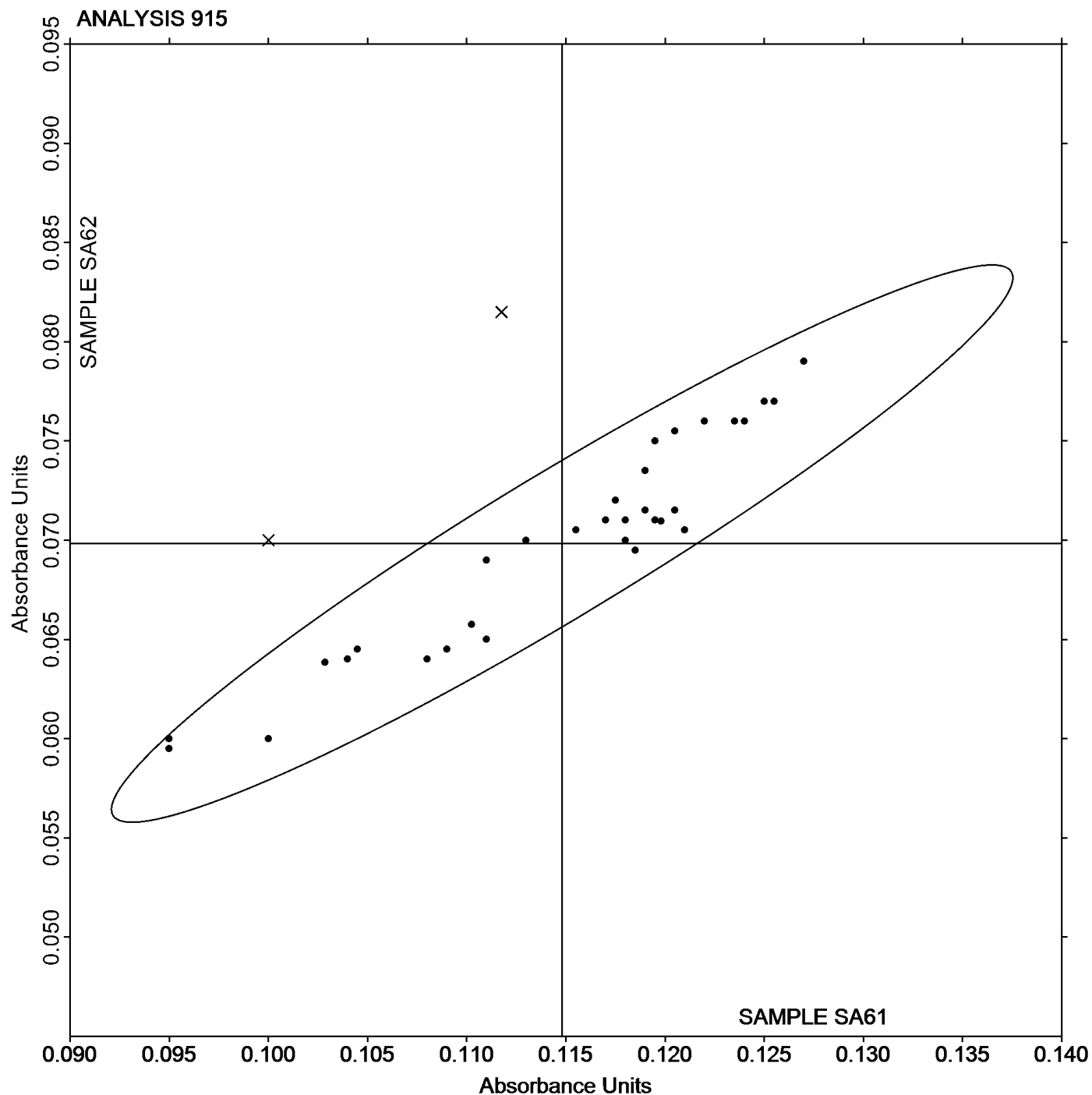
MGKWM4 (X) - Data for sample SA61 are high.

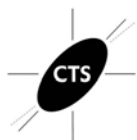
277UXV (X) - Extreme data.

AWDENJ (X) - Inconsistent in testing between samples.



Analysis 915
A420nm (1cm path)





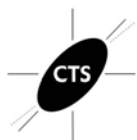
ASEV-CTS Wine Industry Interlaboratory Testing Program

Report #081

Fall 2025

Analysis 916 A520nm (1cm path)

WebCode	Data Flag	Sample SA61			Sample SA62		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
277UXV	X	1.0015	0.9854	326.72	0.9860	0.9753	420.31
2MYGTN		0.0178	0.0017	0.56	0.0113	0.0006	0.27
33AG3J		0.0130	-0.0031	-1.02	0.0070	-0.0037	-1.58
3777JQ		0.0180	0.0019	0.64	0.0110	0.0003	0.15
68CCVH		0.0145	-0.0016	-0.52	0.0095	-0.0012	-0.50
6UQWRH		0.0175	0.0014	0.48	0.0120	0.0013	0.58
79GJBF		0.0175	0.0014	0.48	0.0115	0.0008	0.36
7REGXH		0.0165	0.0004	0.14	0.0100	-0.0007	-0.28
846QZG	X	0.1450	0.1289	42.75	0.1800	0.1693	72.98
8627CD	X	0.0583	0.0422	14.00	0.0729	0.0622	26.82
8B73WD	*	0.0084	-0.0077	-2.56	0.0045	-0.0062	-2.65
969XPM		0.0145	-0.0016	-0.52	0.0105	-0.0002	-0.07
A7LXC9	X	0.2060	0.1899	62.97	0.0538	0.0431	18.57
BPTM3C		0.0150	-0.0011	-0.35	0.0090	-0.0017	-0.71
CPMRWB		0.0150	-0.0011	-0.35	0.0105	-0.0002	-0.07
CPQBKE	X	0.0180	0.0019	0.64	0.0210	0.0103	4.46
HZM9A9		0.0185	0.0024	0.81	0.0110	0.0003	0.15
J6GPY8		0.0149	-0.0012	-0.39	0.0113	0.0006	0.26
JDUDY2		0.0150	-0.0011	-0.35	0.0110	0.0003	0.15
JLMVA4	*	0.0255	0.0094	3.13	0.0175	0.0068	2.95
K2WWM6		0.0170	0.0009	0.31	0.0140	0.0033	1.44
LFM9K8		0.0185	0.0024	0.81	0.0115	0.0008	0.36
M7JLXT		0.0140	-0.0021	-0.70	0.0059	-0.0048	-2.07
M8AU23		0.0160	-0.0001	-0.02	0.0110	0.0003	0.15
MZDR4X		0.0150	-0.0011	-0.35	0.0100	-0.0007	-0.28
NW7WXY		0.0200	0.0039	1.31	0.0120	0.0013	0.58
NWAGK3		0.0160	-0.0001	-0.02	0.0130	0.0023	1.01
PNAGLZ		0.0160	-0.0001	-0.02	0.0110	0.0003	0.15
Q73V94		0.0180	0.0019	0.64	0.0110	0.0003	0.15
TNYNJU	*	0.0100	-0.0061	-2.01	0.0100	-0.0007	-0.28
VU2JCT		0.0155	-0.0006	-0.19	0.0085	-0.0022	-0.93
VUF4ZW		0.0135	-0.0026	-0.85	0.0105	-0.0002	-0.07
WFEQ2R		0.0175	0.0014	0.48	0.0130	0.0023	1.01
XZF3NR		0.0140	-0.0021	-0.68	0.0100	-0.0007	-0.28
YLUBYN		0.0170	0.0009	0.31	0.0115	0.0008	0.36

**Analysis 916**
A520nm (1cm path)

WebCode	Data Flag	Sample SA61			Sample SA62		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
ZB6XEH		0.0185	0.0024	0.81	0.0100	-0.0007	-0.28

Grand Means

0.01606 Absorbance Units

Summary Statistics

0.01066 Absorbance Units

Std Dev Btwn Labs

0.00302 Absorbance Units

0.00232 Absorbance Units

Statistics based on 31 of 36 reporting participants

Wines tested: SA61: Chardonnay; SA62: Sauvignon Blanc

Comments on Assigned Data Flags for Test #916

CPQBKE (X) - Data for sample SA62 are high.

846QZG (X) - Data for both samples are high.

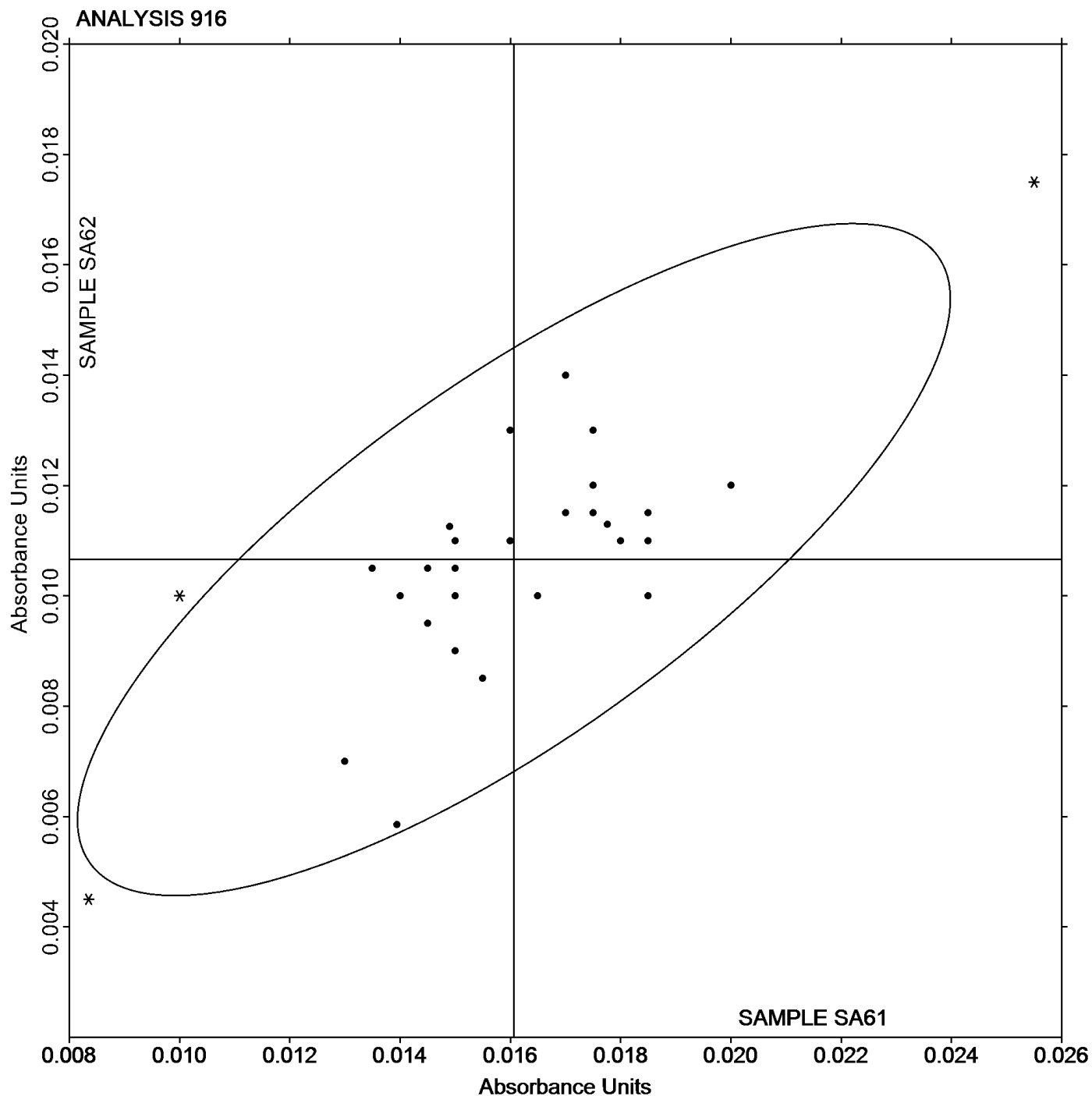
A7LXC9 (X) - Data for both samples are high. Inconsistent within the determinations of both samples.

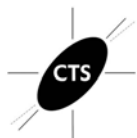
8627CD (X) - Data for both samples are high. Inconsistent within the determinations of sample SA62.

277UXV (X) - Extreme data.



Analysis 916
A520nm (1cm path)





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

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Fall 2025

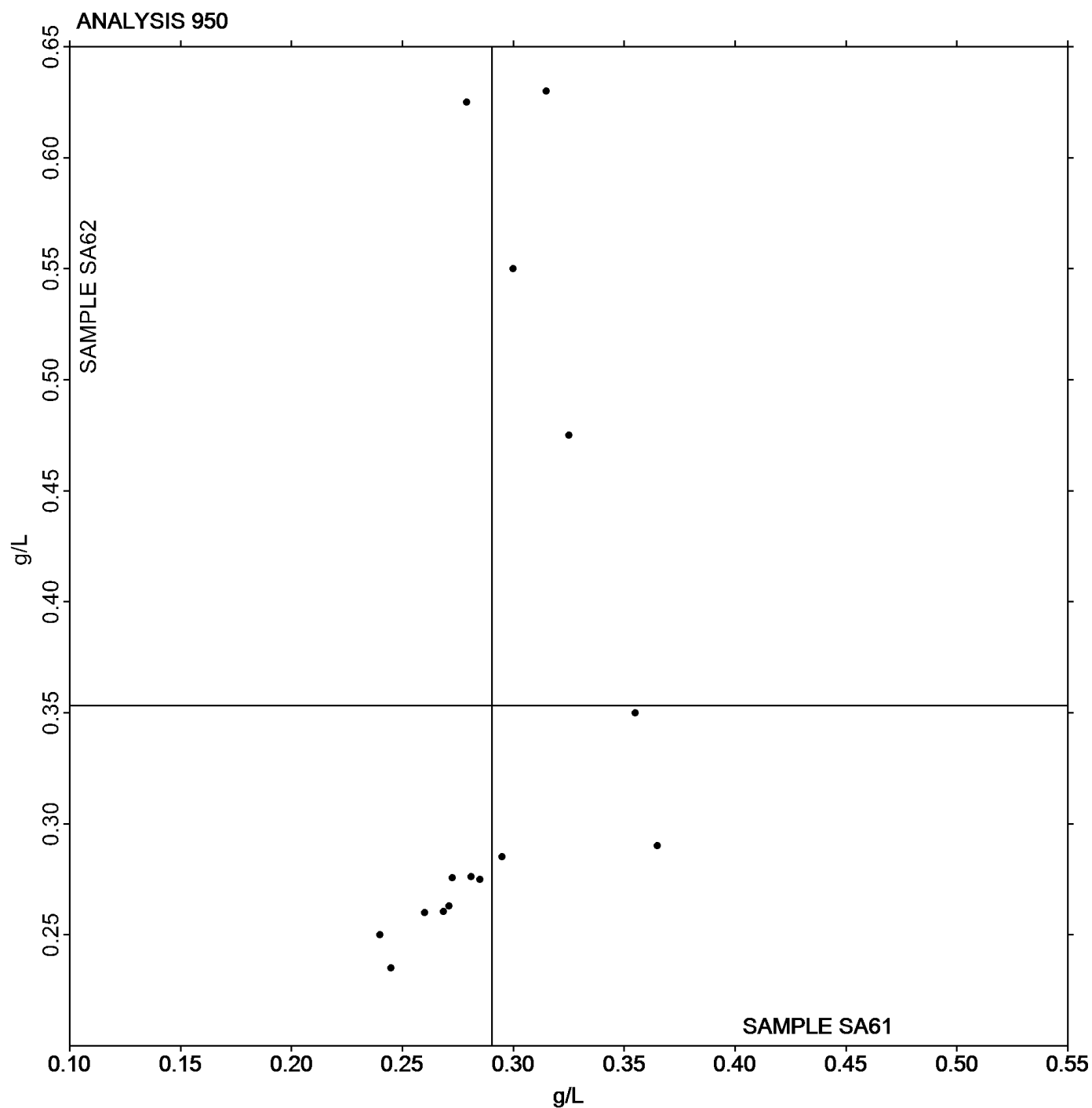
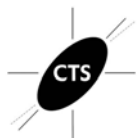
WebCode	Data Flag	Sample SA61			Sample SA62		
		Lab Mean	Diff from Target Value	% Diff from Target Value	Lab Mean	Diff from Target Value	% Diff from Target Value
3777JQ		0.2950	0.0045	0.12	0.2850	-0.0683	-0.48
3V98RK		0.2710	-0.0195	-0.53	0.2630	-0.0903	-0.64
68CCVH		0.3150	0.0245	0.67	0.6300	0.2767	1.95
6UQWRH		0.3650	0.0745	2.04	0.2900	-0.0633	-0.45
79GJBF		0.2810	-0.0095	-0.26	0.2760	-0.0773	-0.55
7REGXH		0.2790	-0.0115	-0.31	0.6250	0.2717	1.92
8B73WD		0.3250	0.0345	0.95	0.4750	0.1217	0.86
CPMRWB		0.2600	-0.0305	-0.84	0.2600	-0.0933	-0.66
HZM9A9		0.2685	-0.0220	-0.60	0.2605	-0.0928	-0.66
MGKWM4	X	5.0040	4.7135	129.31	7.2550	6.9017	48.73
NW7WXY		0.2850	-0.0055	-0.15	0.2750	-0.0783	-0.55
NWAGK3		0.2400	-0.0505	-1.38	0.2500	-0.1033	-0.73
PXZ3RY		0.3550	0.0645	1.77	0.3500	-0.0033	-0.02
Q73V94		0.2450	-0.0455	-1.25	0.2350	-0.1183	-0.84
QCWDZ3		0.2725	-0.0180	-0.49	0.2755	-0.0778	-0.55
WFEQ2R		0.3000	0.0095	0.26	0.5500	0.1967	1.39

Research Property Consensus Value		
Consensus Average	0.29047 g/L	0.35333 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.		

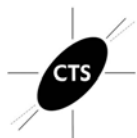
Wines tested: SA61: Chardonnay; SA62: Sauvignon Blanc

Comments on Assigned Data Flags for Test #950

MGKWM4 (X) - Data for both samples are high. Inconsistent within the determinations of sample SA61.



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



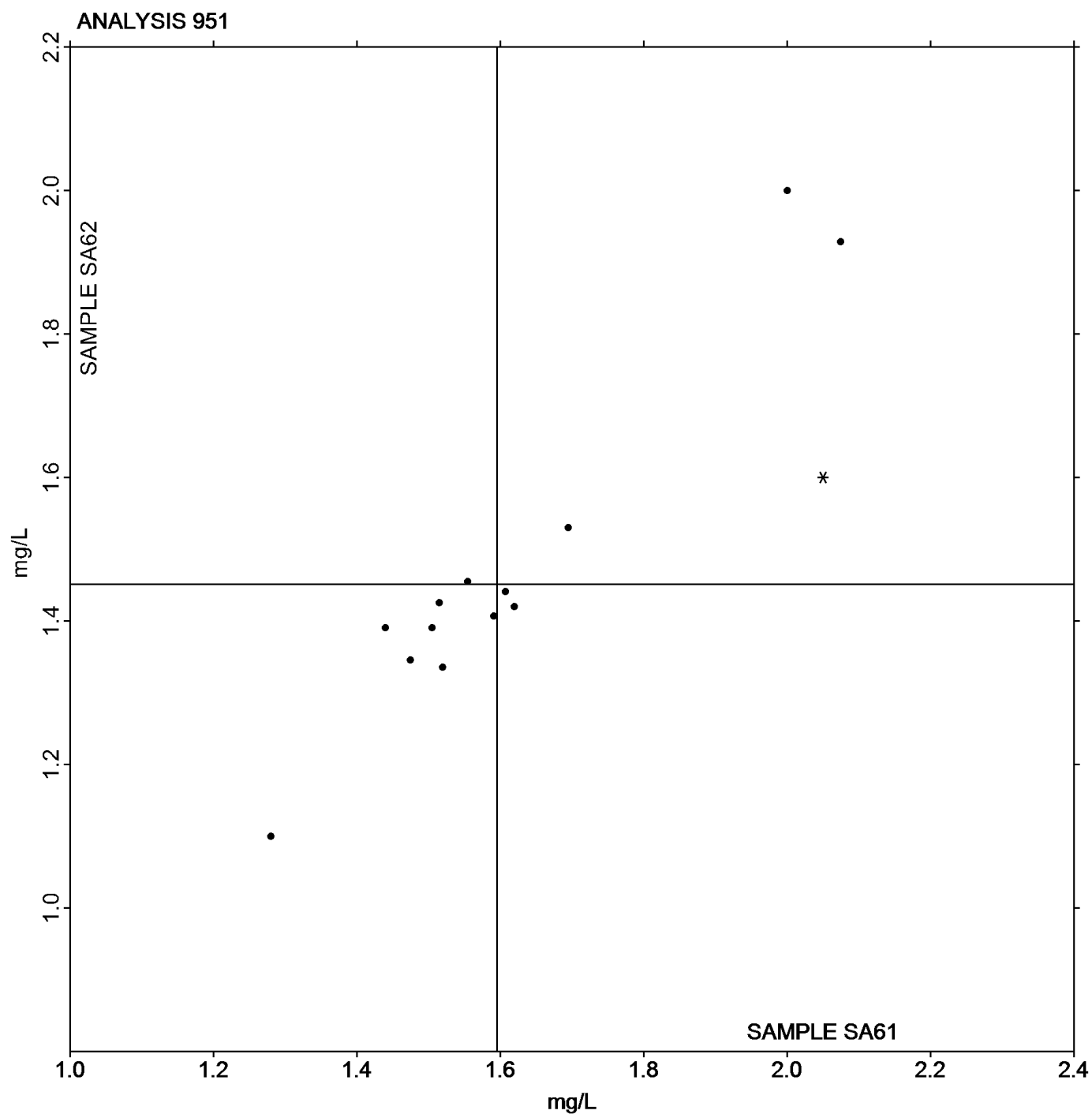
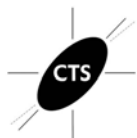
ASEV-CTS Wine Industry Interlaboratory Testing Program
Research Property 951
Research: Iron Content

Report #081
Fall 2025

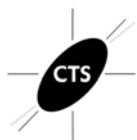
WebCode	Data Flag	Sample SA61			Sample SA62		
		Lab Mean	Diff from Target Value	% Diff from Target Value	Lab Mean	Diff from Target Value	% Diff from Target Value
6UQWRH		1.280	-0.315	-1.11	1.100	-0.351	-1.37
79GJBF		1.515	-0.080	-0.28	1.425	-0.026	-0.10
7REGXH		1.608	0.012	0.04	1.441	-0.010	-0.04
8B73WD		1.555	-0.040	-0.14	1.455	0.004	0.02
CPMRWB		1.695	0.100	0.35	1.530	0.079	0.31
HZM9A9		1.505	-0.090	-0.32	1.390	-0.061	-0.24
K2WWM6		1.620	0.025	0.09	1.420	-0.031	-0.12
M8AU23	*	2.050	0.455	1.60	1.600	0.149	0.58
NW7WXY		2.000	0.405	1.43	2.000	0.549	2.14
NWAGK3		1.591	-0.004	-0.01	1.407	-0.045	-0.17
PXZ3RY		1.475	-0.120	-0.42	1.345	-0.106	-0.41
Q73V94		2.075	0.479	1.69	1.929	0.477	1.86
QCWDZ3		1.520	-0.075	-0.27	1.335	-0.116	-0.45
UE8P7U		1.440	-0.155	-0.55	1.390	-0.061	-0.24
WFEQ2R		1.000	-0.595	-2.10	1.000	-0.451	-1.76

Research Property Consensus Value		
Consensus Average	1.5952 mg/L	1.4511 mg/L
Note: Tests 950, 951 and 952, are research tests. As a result participants should use caution when evaluating data for these tests.		
<i>This consensus average is based on 15 reporting participants.</i>		

Wines tested: SA61: Chardonnay; SA62: Sauvignon Blanc



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 SA61			Sample SA62		
		Lab Mean	Diff from Target Value	% Diff from Target Value	Lab Mean	Diff from Target Value	% Diff from Target Value
79GJBF		86.56	0.49	0.24	75.07	0.54	0.27
8B73WD		85.50	-0.58	-0.28	75.50	0.97	0.48
BPTM3C		86.00	-0.08	-0.04	74.65	0.12	0.06
CPMRWB		86.00	-0.08	-0.04	74.00	-0.53	-0.26
GWWEY3		87.92	1.84	0.89	74.39	-0.14	-0.07
HZM9A9	M	86.20	0.12	0.06	No data reported for this sample		
K2WWM6		86.67	0.59	0.28	75.32	0.79	0.39
M8AU23		88.54	2.46	1.19	76.83	2.30	1.14
NW7WXY		80.85	-5.23	-2.53	69.34	-5.19	-2.58
NWAGK3		87.24	1.16	0.56	75.74	1.22	0.60
PXZ3RY		83.86	-2.22	-1.07	72.70	-1.83	-0.91
Q73V94		87.80	1.72	0.83	76.80	2.27	1.13
QCWDZ3		86.00	-0.08	-0.04	74.00	-0.53	-0.26

Research Property Consensus Value			
Consensus Average	86.078	kcal/100ml	74.528 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 12 reporting participants.			

Wines tested: SA61: Chardonnay; SA62: Sauvignon Blanc

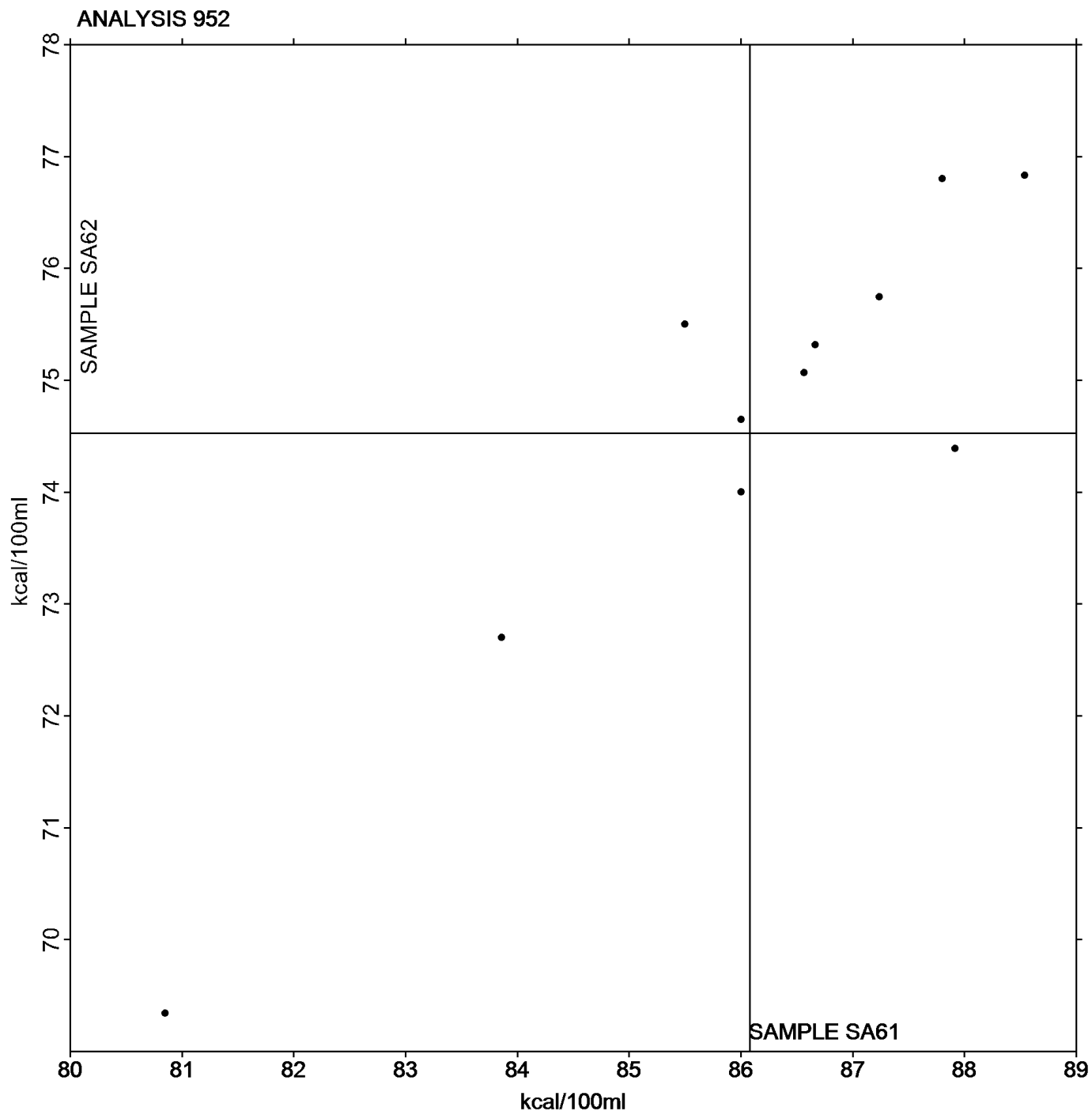
Comments on Assigned Data Flags for Test #952

HZM9A9 (M) - Participant did not submit data for sample SA62.



Analysis 952

Research Property: Calories



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-