



Wine Industry Interlaboratory Program

Summary Report #069 - Fall 2021

[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 (1cm path)</u>
<u>916</u>	<u>A520nm (1cm path)</u>
<u>950</u>	<u>Research Property: Citric Acid</u>
<u>951</u>	<u>Research: Iron Content</u>
<u>952</u>	<u>Research Property: Methanol Content</u>

About the Wine Industry Interlaboratory Program

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

About CTS

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

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Key for Web Summary Report (Page 1 of 2)

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

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

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

Common Problems Highlighted in Footnotes

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

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



Analysis 901
Ethanol (% of volume)

WebCode	Data Flag	Sample SA37			Sample SA38		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2NWE67		11.56	-0.02	-0.63	11.72	-0.05	-1.29
3GVJLX		11.55	-0.04	-1.03	11.76	-0.01	-0.36
3JLT8F		11.61	0.02	0.55	11.78	0.01	0.31
3VV4JN		11.59	0.01	0.15	11.79	0.02	0.44
3VVTGD		11.61	0.02	0.55	11.80	0.03	0.71
3Z6G2M		11.54	-0.05	-1.29	11.71	-0.06	-1.56
49GUJJ		11.54	-0.04	-1.16	11.73	-0.04	-1.02
4F2V43		11.62	0.04	0.94	11.80	0.03	0.71
676EPH		11.60	0.02	0.41	11.79	0.02	0.58
6EXTPH		11.60	0.01	0.28	11.78	0.01	0.18
6N8PMF		11.59	0.01	0.15	11.78	0.01	0.31
6TFHNJ		11.58	0.00	-0.11	11.80	0.03	0.71
7993VE		11.62	0.03	0.81	11.78	0.01	0.31
7ETR3M		11.61	0.03	0.68	11.80	0.03	0.84
7N3Z73		11.66	0.08	1.99	11.81	0.04	1.11
7VJVMW		11.62	0.04	0.94	11.81	0.04	1.11
7XB2JA	X	11.38	-0.21	-5.49	11.57	-0.20	-5.30
7ZBZDF		11.59	0.01	0.15	11.78	0.01	0.31
84CXFF		11.57	-0.01	-0.37	11.75	-0.02	-0.49
87HQGL		11.61	0.03	0.68	11.78	0.01	0.31
8CMM4T		11.61	0.03	0.68	11.80	0.03	0.71
8J7RYE		11.55	-0.04	-1.03	11.73	-0.04	-1.02
8WANB9	X	11.18	-0.40	-10.60	11.38	-0.39	-10.50
9VCVQ9	*	11.63	0.05	1.20	11.76	-0.01	-0.22
A82NMF		11.63	0.05	1.20	11.81	0.04	1.11
AHMQ8V		11.54	-0.04	-1.16	11.73	-0.04	-1.02
BPJAXD	X	11.35	-0.23	-6.14	11.55	-0.22	-5.83
BPZY9X		11.60	0.02	0.41	11.80	0.03	0.84
BQUCJC		11.61	0.02	0.55	11.79	0.02	0.44
BTYCRG		11.56	-0.03	-0.77	11.75	-0.02	-0.62
D4ANYV		11.58	0.00	-0.11	11.81	0.04	0.98
DDFYH2	X	11.49	-0.09	-2.47	11.75	-0.02	-0.49
DDKQKW		11.55	-0.03	-0.90	11.74	-0.03	-0.76
DQMGZ9		11.57	-0.02	-0.50	11.77	0.00	0.04
DR3J8G	X	11.36	-0.22	-5.88	11.49	-0.28	-7.43



Analysis 901

Ethanol (% of volume)

WebCode	Data Flag	Sample SA37			Sample SA38		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
DUJ3RC		11.54	-0.04	-1.16	11.73	-0.04	-1.02
E3UPF7		11.55	-0.04	-1.03	11.74	-0.03	-0.89
EC4LD6		11.56	-0.02	-0.63	11.77	0.00	-0.09
EKT8J3	X	11.55	-0.04	-1.03	11.56	-0.21	-5.70
F836PU		11.62	0.04	0.94	11.80	0.03	0.84
FB4B7L	*	11.60	0.02	0.41	11.72	-0.05	-1.29
FNU84D		11.60	0.02	0.41	11.79	0.02	0.58
FXGT23		11.51	-0.07	-1.95	11.71	-0.06	-1.56
GELXBD		11.61	0.03	0.68	11.79	0.02	0.58
GFCLM2		11.65	0.07	1.73	11.83	0.06	1.64
GJRQ7A	*	11.56	-0.03	-0.77	11.80	0.03	0.71
H34U67	*	11.54	-0.05	-1.29	11.67	-0.10	-2.63
H82LQ6	X	11.80	0.22	5.66	12.00	0.23	6.18
HF7T76	X	11.90	0.32	8.28	12.05	0.28	7.52
HWYWXM		11.54	-0.05	-1.29	11.72	-0.05	-1.29
J4WDYZ		11.58	0.00	-0.11	11.77	0.00	0.04
JG32Y2		11.61	0.03	0.68	11.80	0.03	0.84
JY2EAN	X	11.25	-0.33	-8.77	11.40	-0.37	-9.83
JY2J2Y	X	12.00	0.42	10.91	12.00	0.23	6.18
KFZQHP		11.55	-0.03	-0.90	11.74	-0.03	-0.76
KKVKD6		11.61	0.02	0.55	11.77	0.00	0.04
LW2KFV		11.60	0.02	0.41	11.79	0.02	0.58
M4XAJX	X	11.59	0.01	0.15	11.70	-0.07	-1.83
M82BWW		11.63	0.05	1.20	11.82	0.05	1.24
MJT2GZ		11.60	0.02	0.41	11.79	0.02	0.58
MMTBNW		11.56	-0.02	-0.63	11.74	-0.03	-0.89
MUR8H8		11.61	0.03	0.68	11.80	0.03	0.84
MXBPQY	X	11.19	-0.40	-10.47	11.39	-0.38	-10.10
N4FHAD	X	11.67	0.08	2.12	11.68	-0.09	-2.49
NCTYTU		11.58	0.00	-0.11	11.78	0.01	0.31
NLYGB6		11.57	-0.01	-0.37	11.76	-0.01	-0.22
PKY4HP		11.55	-0.03	-0.90	11.74	-0.03	-0.76
PQ4Z3P		11.59	0.00	0.02	11.77	0.00	-0.09
PRZH4Q		11.66	0.08	1.99	11.84	0.07	1.91
Q7BFLW	X	11.44	-0.15	-3.91	11.67	-0.10	-2.76

Analysis 901
Ethanol (% of volume)

WebCode	Data Flag	Sample SA37			Sample SA38		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
QHTXGP		11.56	-0.02	-0.63	11.76	-0.01	-0.22
QZP26X		11.61	0.02	0.55	11.79	0.02	0.58
R4HG UW		11.60	0.01	0.28	11.78	0.01	0.31
RKAMFR		11.59	0.01	0.15	11.77	0.00	0.04
RWZ7HG		11.55	-0.03	-0.90	11.75	-0.02	-0.62
TMFYJR		11.55	-0.04	-1.03	11.74	-0.03	-0.89
TMUNHX		11.61	0.02	0.55	11.79	0.02	0.58
U68UMM		11.69	0.10	2.64	11.88	0.11	2.85
U987HM		11.57	-0.01	-0.37	11.76	-0.01	-0.36
UAMZ7U		11.59	0.01	0.15	11.80	0.03	0.84
UMPLB6		11.62	0.04	0.94	11.82	0.05	1.24
UVJ4ZU		11.58	0.00	-0.11	11.78	0.01	0.31
V4C7TB	X	11.55	-0.03	-0.90	11.55	-0.22	-5.83
VYKWHC		11.64	0.05	1.33	11.81	0.04	0.98
W2448K		11.66	0.07	1.86	11.81	0.04	0.98
WBADM4	*	11.65	0.06	1.60	11.77	0.00	-0.09
WDXUYW		11.61	0.02	0.55	11.79	0.02	0.58
WZ9V8U		11.66	0.07	1.86	11.84	0.07	1.91
XXV8ZM	*	11.49	-0.09	-2.47	11.65	-0.12	-3.16
XZZX6G		11.65	0.06	1.60	11.80	0.03	0.84
Z68DZ4		11.61	0.02	0.55	11.79	0.02	0.58
Z9BB8Q		11.57	-0.02	-0.50	11.74	-0.03	-0.89
ZBD8VY		11.60	0.01	0.28	11.79	0.02	0.58
ZBXNB3		11.57	-0.01	-0.37	11.77	0.00	0.04
ZKN9FZ		11.62	0.03	0.81	11.81	0.04	1.11
ZR7CCN		11.55	-0.04	-1.03	11.73	-0.04	-1.02
ZRK9QL		11.50	-0.08	-2.21	11.70	-0.07	-1.83
ZWURMU		11.60	0.02	0.41	11.80	0.03	0.84
ZY723L		11.61	0.02	0.55	11.80	0.03	0.84



Grand Means	Summary Statistics
11.584 percent	11.768 percent
Std Dev Btwn Labs	
0.038 percent	0.037 percent
Statistics based on 84 of 99 reporting participants	

Wines tested: SA37: Chardonnay; SA38: Chardonnay

Comments on Assigned Data Flags for Test #901

- N4FHAD (X) - Inconsistent in testing between samples. Inconsistent within the determinations of both samples.
- JY2EAN (X) - Data for both samples are low. Inconsistent within the determinations of sample SA37.
- V4C7TB (X) - Inconsistent in testing between samples, data for sample SA38 are low. Inconsistent within the determinations of both samples.
- M4XAJX (X) - Inconsistent in testing between samples.
- DR3J8G (X) - Data for both samples are low.
- JY2J2Y (X) - Data for both samples are high.
- EKT8J3 (X) - Inconsistent in testing between samples, data for sample SA38 are low. Inconsistent within the determinations of sample SA38.
- 8WANB9 (X) - Data for both samples are low. Inconsistent within the determinations of sample SA37.
- DDFYH2 (X) - Inconsistent in testing between samples.
- 7XB2JA (X) - Data for both samples are low. Possible Systematic Error.
- HF7T76 (X) - Data for both samples are high. Inconsistent within the determinations of both samples.
- H82LQ6 (X) - Data for both samples are high. Possible Systematic Error.
- Q7BFLW (X) - Data for both samples are low. Possible Systematic Error. Inconsistent within the determinations of sample SA38.
- BPJAXD (X) - Data for both samples are low. Possible Systematic Error. Inconsistent within the determinations of both samples.
- MXBPQY (X) - Data for both samples are low.

Results by Methodology (as reported by laboratory)

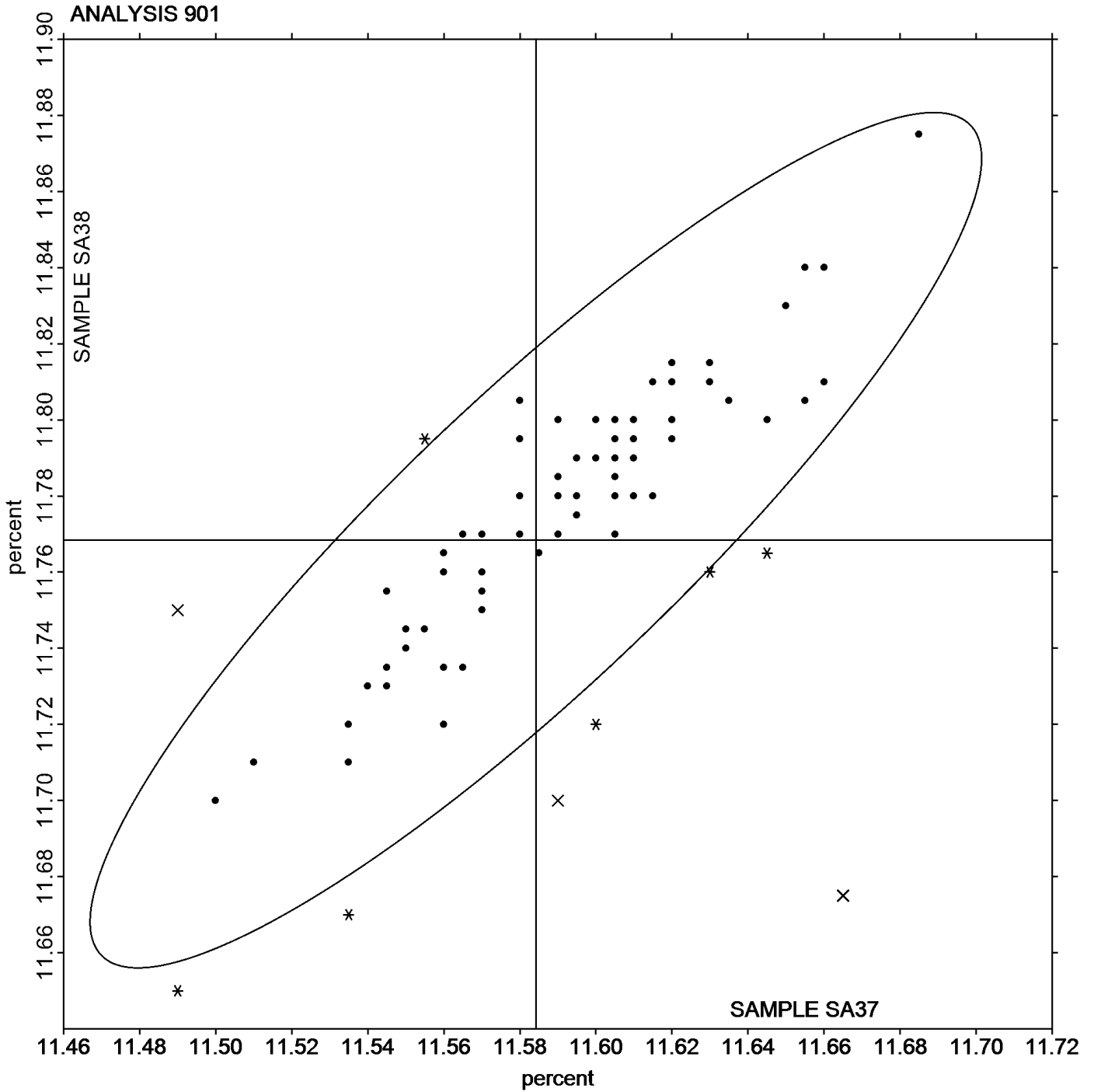
Test Methodology	Sample SA37 <i>Chardonnay</i>			Sample SA38 <i>Chardonnay</i>			Labs Incl / Rpt
	Group Mean	Btwn Lab STD	Diff from GM	Group Mean	Btwn Lab STD	Diff from GM	
Ebulliometer Method							0/5
Gas Chromatography Method	11.653	0.011	0.07	11.788	0.032	0.02	2/4
Near Infrared Method	11.589	0.032	0.00	11.775	0.031	0.01	65/70
Dist. / Density Method	11.548	0.049	-0.04	11.721	0.058	-0.05	6/8
FTIR	11.597	0.058	0.01	11.788	0.053	0.02	8/8
Other _____	11.590	0.013	0.01	11.777	0.016	0.01	3/4



Analysis 901

Fall 2021

Ethanol (% of volume)





Analysis 902

Total Sulfur Dioxide

WebCode	Data Flag	Sample SA37			Sample SA38		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2NWE67		145.7	17.6	1.95	142.5	15.6	1.80
3GVJLX		113.0	-15.1	-1.67	116.5	-10.4	-1.20
3JLT8F		109.0	-19.1	-2.11	107.5	-19.4	-2.24
3VV4JN		120.5	-7.6	-0.84	116.5	-10.4	-1.20
3Z6G2M	*	126.5	-1.6	-0.17	117.0	-9.9	-1.14
49GUJJ		129.0	0.9	0.10	128.5	1.6	0.19
4F2V43		127.0	-1.1	-0.12	126.0	-0.9	-0.10
676EPH		124.5	-3.6	-0.40	126.0	-0.9	-0.10
6EXTPH		142.5	14.4	1.60	140.0	13.1	1.52
6H4LWH		127.0	-1.1	-0.12	124.0	-2.9	-0.33
6N8PMF	X	134.3	6.2	0.68	122.0	-4.9	-0.57
6TFHNJ		121.5	-6.6	-0.73	115.0	-11.9	-1.37
7993VE		114.5	-13.6	-1.50	112.0	-14.9	-1.72
7ETR3M		133.0	4.9	0.55	126.0	-0.9	-0.10
7N3Z73		120.0	-8.1	-0.89	122.0	-4.9	-0.56
7VJVMW		117.5	-10.6	-1.17	120.0	-6.9	-0.79
7XB2JA		133.5	5.4	0.60	130.5	3.6	0.42
7ZBZDF		135.0	6.9	0.77	139.0	12.1	1.40
84CXFF		113.5	-14.6	-1.61	109.5	-17.4	-2.01
87HQGL		121.5	-6.6	-0.73	122.0	-4.9	-0.56
8CMM4T		131.5	3.4	0.38	130.0	3.1	0.36
8J7RYE		125.0	-3.1	-0.34	123.5	-3.4	-0.39
8WANB9		125.5	-2.6	-0.28	130.5	3.6	0.42
A82NMF		141.0	12.9	1.43	138.0	11.1	1.28
AHMQ8V		124.5	-3.6	-0.40	128.0	1.1	0.13
BPJAXD		115.2	-12.9	-1.43	118.4	-8.5	-0.98
BPZY9X		130.0	1.9	0.21	128.5	1.6	0.19
BQUCJC		119.0	-9.1	-1.00	117.5	-9.4	-1.08
BTYCRG	X	119.5	-8.6	-0.95	104.5	-22.4	-2.58
D4ANYV		111.0	-17.1	-1.89	114.0	-12.9	-1.49
DDFYH2		130.0	1.9	0.21	135.0	8.1	0.94
DDKQKW		138.0	9.9	1.10	131.5	4.6	0.53
DQMGZ9		134.5	6.4	0.71	129.5	2.6	0.30
DR3J8G		136.0	7.9	0.88	129.0	2.1	0.25
DUJ3RC		122.0	-6.1	-0.67	120.0	-6.9	-0.79



Analysis 902

Total Sulfur Dioxide

WebCode	Data Flag	Sample SA37			Sample SA38		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
E3UPF7		142.3	14.2	1.57	141.6	14.7	1.69
EC4LD6		137.5	9.4	1.04	136.0	9.1	1.05
EKT8J3		118.5	-9.6	-1.06	119.5	-7.4	-0.85
F836PU		143.1	15.0	1.66	141.2	14.3	1.65
FB4B7L	X	131.0	2.9	0.32	113.0	-13.9	-1.60
FNU84D		127.0	-1.1	-0.12	124.0	-2.9	-0.33
FXGT23		131.0	2.9	0.32	133.0	6.1	0.71
GELXBD		125.0	-3.1	-0.34	121.0	-5.9	-0.68
GFCLM2	X	127.0	-1.1	-0.12	112.5	-14.4	-1.66
GJRQ7A	X	141.5	13.4	1.49	123.0	-3.9	-0.45
H34U67		125.0	-3.1	-0.34	123.0	-3.9	-0.45
HF7T76		136.0	7.9	0.88	133.5	6.6	0.76
HWYWXM		108.0	-20.1	-2.22	110.0	-16.9	-1.95
J4WDYZ		128.5	0.4	0.05	127.5	0.6	0.07
JG32Y2		131.5	3.4	0.38	133.5	6.6	0.76
JY2J2Y		121.4	-6.7	-0.74	121.4	-5.5	-0.63
KFZQHP		139.0	10.9	1.21	134.0	7.1	0.82
KKVKD6		124.0	-4.1	-0.45	122.5	-4.4	-0.50
LW2KfV		124.0	-4.1	-0.45	120.0	-6.9	-0.79
M4XAJX		126.3	-1.8	-0.20	126.3	-0.6	-0.07
M82BWW		133.0	4.9	0.55	130.5	3.6	0.42
MJT2GZ	X	163.0	34.9	3.87	156.0	29.1	3.36
MMTBNW		136.0	8.0	0.88	135.3	8.4	0.97
MUR8H8		128.5	0.4	0.05	124.5	-2.4	-0.27
MXBPQY		121.5	-6.6	-0.73	118.5	-8.4	-0.97
N4FHAD		121.5	-6.6	-0.73	127.0	0.1	0.01
NCTYTU		135.5	7.4	0.82	137.0	10.1	1.17
NLYGB6		137.8	9.7	1.08	137.5	10.6	1.23
PKY4HP		121.0	-7.1	-0.78	119.0	-7.9	-0.91
PQ4Z3P		119.0	-9.1	-1.00	121.0	-5.9	-0.68
PRZH4Q		126.0	-2.1	-0.23	126.0	-0.9	-0.10
Q7BFLW		136.5	8.4	0.93	132.0	5.1	0.59
QHTXGP		141.5	13.4	1.49	140.5	13.6	1.57
QZP26X		130.5	2.4	0.27	130.5	3.6	0.42
R4HG UW		134.0	5.9	0.66	132.0	5.1	0.59



Analysis 902

Fall 2021

Total Sulfur Dioxide

WebCode	Data Flag	Sample SA37			Sample SA38		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
RKAMFR		125.0	-3.1	-0.34	128.0	1.1	0.13
RWZ7HG		128.0	-0.1	-0.01	129.0	2.1	0.25
TMFYJR		128.5	0.4	0.05	129.5	2.6	0.30
TMUNHX		123.0	-5.1	-0.56	125.0	-1.9	-0.22
U68UMM		141.0	12.9	1.43	141.0	14.1	1.63
U987HM		125.0	-3.1	-0.34	122.5	-4.4	-0.50
UAMZ7U		123.5	-4.6	-0.51	122.0	-4.9	-0.56
UMPLB6	X	114.0	-14.1	-1.56	105.0	-21.9	-2.52
UVJ4ZU		121.5	-6.6	-0.73	117.5	-9.4	-1.08
V4C7TB	X	96.5	-31.6	-3.50	115.0	-11.9	-1.37
VYKWHC		133.0	4.9	0.55	130.5	3.6	0.42
W2448K		124.5	-3.6	-0.40	126.5	-0.4	-0.04
WBADM4		130.5	2.4	0.27	127.5	0.6	0.07
WDXUYW		129.2	1.1	0.13	128.0	1.1	0.12
WZ9V8U		132.0	3.9	0.44	128.5	1.6	0.19
XKU7C7		139.5	11.4	1.27	134.5	7.6	0.88
XXV8ZM		144.0	15.9	1.76	143.0	16.1	1.86
XZZX6G		135.5	7.4	0.82	133.5	6.6	0.76
Z68DZ4		131.5	3.4	0.38	132.0	5.1	0.59
Z9BB8Q	*	117.5	-10.6	-1.17	124.0	-2.9	-0.33
ZBD8VY		135.0	6.9	0.77	133.5	6.6	0.76
ZBXNB3		130.5	2.4	0.27	126.0	-0.9	-0.10
ZKN9FZ		123.0	-5.1	-0.56	126.0	-0.9	-0.10
ZR7CCN		133.5	5.4	0.60	127.0	0.1	0.01
ZRK9QL		115.0	-13.1	-1.45	110.5	-16.4	-1.89
ZWURMU		136.0	7.9	0.88	134.0	7.1	0.82
ZY723L		148.5	20.4	2.26	145.0	18.1	2.09
ZZVXHM	*	103.8	-24.3	-2.69	101.2	-25.7	-2.97



Analysis 902
Total Sulfur Dioxide

Grand Means	Summary Statistics
128.07 mg/L	126.87 mg/L
Std Dev Btwn Labs	8.66 mg/L
9.03 mg/L	
Statistics based on 90 of 98 reporting participants	

Wines tested: SA37: Chardonnay; SA38: Chardonnay

Comments on Assigned Data Flags for Test #902

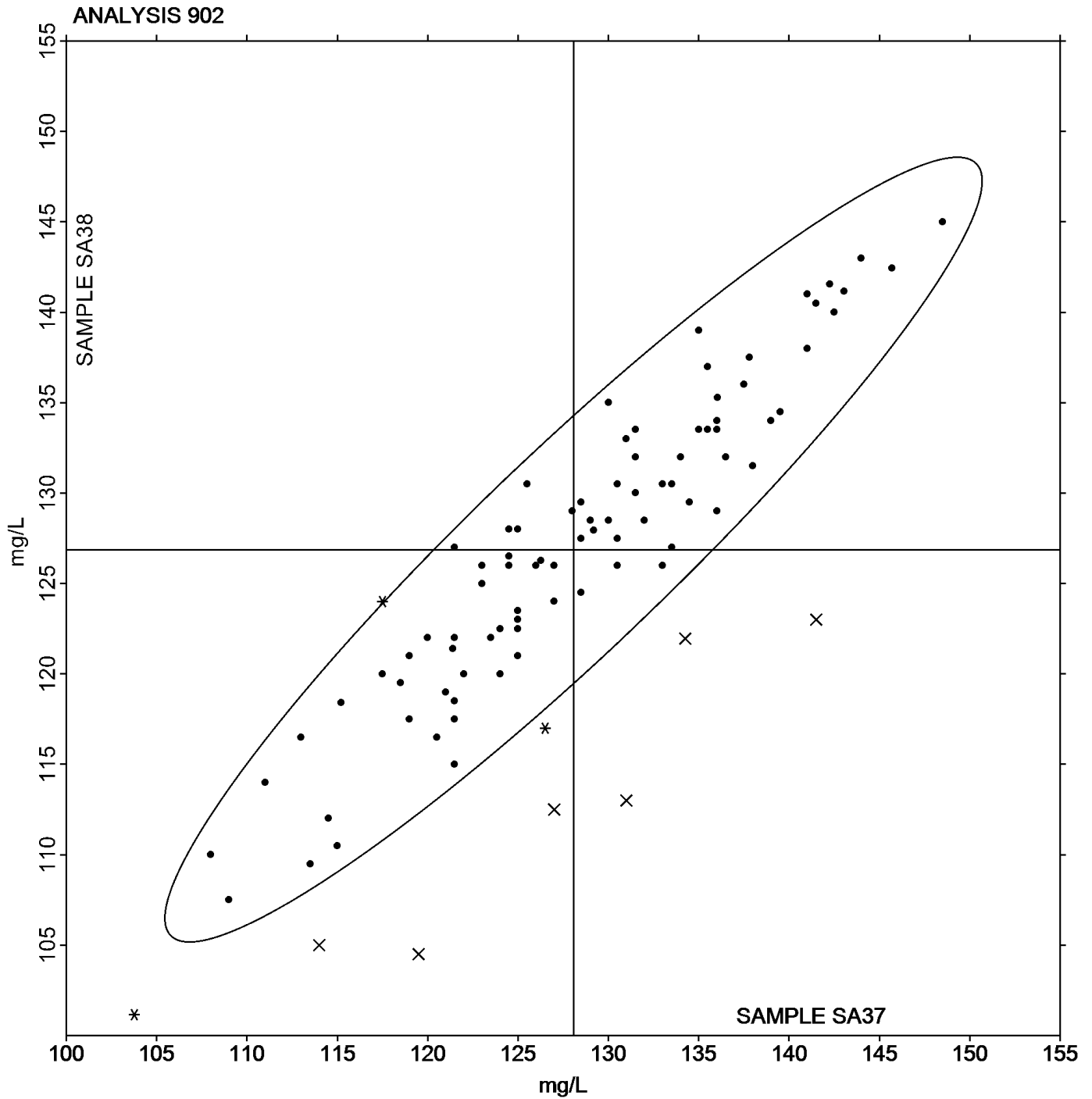
- UMPLB6 (X) - Inconsistent in testing between samples.
- FB4B7L (X) - Inconsistent in testing between samples.
- V4C7TB (X) - Inconsistent in testing between samples, data for sample SA37 are low. Inconsistent within the determinations of sample SA38.
- GJRQ7A (X) - Inconsistent in testing between samples.
- BTYCRG (X) - Inconsistent in testing between samples.
- GFCLM2 (X) - Inconsistent in testing between samples.
- MJT2GZ (X) - Data for both samples are high. Possible Systematic Error.
- 6N8PMF (X) - Inconsistent in testing between samples.

Results by Methodology (as reported by laboratory)

Test Methodology	Sample SA37 <i>Chardonnay</i>			Sample SA38 <i>Chardonnay</i>			Labs Incl / Rpt
	Group Mean	Btwn Lab STD	Diff from GM	Group Mean	Btwn Lab STD	Diff from GM	
Please specify method used	125.000	0.000	-3.1	123.500	0.000	-3.4	1/1
Ripper Method	123.778	7.994	-4.3	123.047	8.055	-3.8	37/41
Aeration Oxidation (AO) Method	124.252	9.057	-3.8	124.172	8.375	-2.7	14/15
Segmented Flow Analyzer	135.864	5.889	7.8	134.593	5.434	7.7	7/7
Enzymatic Method	132.969	5.648	4.9	130.194	6.909	3.3	8/10
Colorimetric Analyzer	136.667	5.949	8.6	135.161	5.687	8.3	9/10
FTIR	132.600	9.470	4.5	129.200	8.927	2.3	5/5
Flow Injection Analysis	130.448	7.791	2.4	128.644	7.986	1.8	9/9



Analysis 902
Total Sulfur Dioxide





Free Sulfur Dioxide

WebCode	Data Flag	Sample SA37			Sample SA38		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2NWE67		30.00	0.45	0.14	27.00	-1.09	-0.36
3GVJLX		24.00	-5.55	-1.74	25.00	-3.09	-1.02
3JLT8F		28.20	-1.35	-0.42	26.50	-1.59	-0.52
3VV4JN		30.00	0.45	0.14	27.00	-1.09	-0.36
3Z6G2M	*	31.00	1.45	0.45	25.00	-3.09	-1.02
49GUJJ		33.00	3.45	1.08	31.50	3.41	1.12
4F2V43		31.00	1.45	0.45	30.00	1.91	0.63
676EPH		32.00	2.45	0.77	32.00	3.91	1.29
6EXTPH		34.50	4.95	1.55	32.50	4.41	1.45
6H4LWH		27.00	-2.55	-0.80	26.25	-1.84	-0.61
6N8PMF	X	28.35	-1.20	-0.38	20.05	-8.04	-2.64
6TFHNJ		31.50	1.95	0.61	27.50	-0.59	-0.19
7993VE		30.00	0.45	0.14	28.50	0.41	0.13
7ETR3M	*	37.00	7.45	2.33	32.00	3.91	1.29
7N3Z73		22.50	-7.05	-2.21	21.00	-7.09	-2.33
7VJVMW		27.00	-2.55	-0.80	28.00	-0.09	-0.03
7XB2JA		29.00	-0.55	-0.17	28.00	-0.09	-0.03
7ZBZDF		29.00	-0.55	-0.17	27.00	-1.09	-0.36
84CXFF		25.00	-4.55	-1.42	23.50	-4.59	-1.51
87HQGL		24.50	-5.05	-1.58	22.50	-5.59	-1.84
8CMM4T		31.00	1.45	0.45	28.50	0.41	0.13
8J7RYE		33.00	3.45	1.08	34.00	5.91	1.94
8WANB9		34.50	4.95	1.55	35.00	6.91	2.27
9VCVQ9		28.00	-1.55	-0.48	28.00	-0.09	-0.03
A82NMF		28.00	-1.55	-0.48	26.00	-2.09	-0.69
AHMQ8V		31.00	1.45	0.45	29.00	0.91	0.30
BPJAXD		30.70	1.15	0.36	27.53	-0.56	-0.18
BPZY9X		34.50	4.95	1.55	32.00	3.91	1.29
BQUCJC		28.00	-1.55	-0.48	27.00	-1.09	-0.36
BTYCRG	X	27.00	-2.55	-0.80	18.00	-10.09	-3.32
D4ANYV		27.50	-2.05	-0.64	27.50	-0.59	-0.19
DDFYH2		35.00	5.45	1.71	33.00	4.91	1.61
DDKQKW		32.50	2.95	0.92	28.50	0.41	0.13
DQMGZ9		34.50	4.95	1.55	30.00	1.91	0.63
DR3J8G	X	32.13	2.58	0.81	25.38	-2.71	-0.89



ASEV-CTS Wine Industry Interlaboratory Testing Program

Report #069

Analysis 903

Fall 2021

Free Sulfur Dioxide

WebCode	Data Flag	Sample SA37			Sample SA38		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
DUJ3RC		26.00	-3.55	-1.11	26.00	-2.09	-0.69
E3UPF7		30.00	0.45	0.14	28.00	-0.09	-0.03
EC4LD6		31.25	1.70	0.53	29.45	1.36	0.45
EKT8J3		31.00	1.45	0.45	29.50	1.41	0.46
F836PU		34.05	4.50	1.41	32.45	4.36	1.43
FB4B7L	X	24.00	-5.55	-1.74	19.00	-9.09	-2.99
FNU84D		29.00	-0.55	-0.17	27.00	-1.09	-0.36
FXGT23		29.50	-0.05	-0.02	28.50	0.41	0.13
GELXBD		33.00	3.45	1.08	30.00	1.91	0.63
GFCLM2	X	28.50	-1.05	-0.33	20.00	-8.09	-2.66
GJRQ7A		32.00	2.45	0.77	30.00	1.91	0.63
H34U67		29.00	-0.55	-0.17	28.00	-0.09	-0.03
H82LQ6		26.56	-2.99	-0.94	25.04	-3.05	-1.00
HF7T76		25.50	-4.05	-1.27	24.50	-3.59	-1.18
HWYWXM		27.00	-2.55	-0.80	27.00	-1.09	-0.36
J4WDYZ		32.00	2.45	0.77	31.00	2.91	0.96
JG32Y2	*	21.50	-8.05	-2.52	21.50	-6.59	-2.17
JY2EAN		35.00	5.45	1.71	35.00	6.91	2.27
JY2J2Y		31.00	1.45	0.45	31.00	2.91	0.96
KFZQHP		30.50	0.95	0.30	28.00	-0.09	-0.03
KKVKD6		26.50	-3.05	-0.95	24.50	-3.59	-1.18
LW2KfV		33.00	3.45	1.08	29.50	1.41	0.46
M4XAJX		35.31	5.76	1.80	34.24	6.15	2.02
M82BWW		29.00	-0.55	-0.17	27.00	-1.09	-0.36
MJT2GZ		26.00	-3.55	-1.11	26.00	-2.09	-0.69
MMTBNW		25.78	-3.77	-1.18	24.68	-3.41	-1.12
MUR8H8		31.00	1.45	0.45	28.50	0.41	0.13
MXBPQY		29.50	-0.05	-0.02	27.00	-1.09	-0.36
N4FHAD		25.50	-4.05	-1.27	25.50	-2.59	-0.85
NCTYTU		24.50	-5.05	-1.58	25.50	-2.59	-0.85
NLYGB6		26.70	-2.85	-0.89	27.00	-1.09	-0.36
PKY4HP		30.00	0.45	0.14	25.00	-3.09	-1.02
PQ4Z3P		30.00	0.45	0.14	32.00	3.91	1.29
PRZH4Q		27.00	-2.55	-0.80	24.00	-4.09	-1.34
Q7BFLW		30.50	0.95	0.30	27.00	-1.09	-0.36



Free Sulfur Dioxide

WebCode	Data Flag	Sample SA37			Sample SA38		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
QHTXGP		36.00	6.45	2.02	35.00	6.91	2.27
QZP26X		28.90	-0.65	-0.20	27.50	-0.59	-0.19
R4HGUW		27.50	-2.05	-0.64	27.00	-1.09	-0.36
RKAMFR		24.70	-4.85	-1.52	24.50	-3.59	-1.18
RWZ7HG		26.50	-3.05	-0.95	27.00	-1.09	-0.36
TMFYJR		28.00	-1.55	-0.48	25.50	-2.59	-0.85
TMUNHX		29.50	-0.05	-0.02	31.50	3.41	1.12
U68UMM		29.50	-0.05	-0.02	29.00	0.91	0.30
U987HM		28.50	-1.05	-0.33	28.50	0.41	0.13
UAMZ7U		33.00	3.45	1.08	30.00	1.91	0.63
UMPLB6		33.00	3.45	1.08	31.00	2.91	0.96
UVJ4ZU		29.00	-0.55	-0.17	28.00	-0.09	-0.03
V4C7TB		31.00	1.45	0.45	29.50	1.41	0.46
VYKWHC		32.00	2.45	0.77	29.50	1.41	0.46
WBADM4		29.00	-0.55	-0.17	28.00	-0.09	-0.03
WDXUYW		31.00	1.45	0.45	27.80	-0.29	-0.10
WZ9V8U		25.50	-4.05	-1.27	22.00	-6.09	-2.00
XXV8ZM		27.00	-2.55	-0.80	28.00	-0.09	-0.03
XZZX6G		27.75	-1.80	-0.56	26.35	-1.74	-0.57
Z68DZ4		27.00	-2.55	-0.80	27.00	-1.09	-0.36
Z9BB8Q	X	23.00	-6.55	-2.05	16.00	-12.09	-3.98
ZBD8VY		30.50	0.95	0.30	28.00	-0.09	-0.03
ZBXNB3		33.20	3.65	1.14	32.15	4.06	1.34
ZKN9FZ		28.00	-1.55	-0.48	28.00	-0.09	-0.03
ZR7CCN		29.05	-0.50	-0.16	25.55	-2.54	-0.84
ZRK9QL		27.00	-2.55	-0.80	24.00	-4.09	-1.34
ZWURMU		26.00	-3.55	-1.11	26.50	-1.59	-0.52
ZY723L		34.50	4.95	1.55	34.00	5.91	1.94
ZZVXHM		26.91	-2.64	-0.83	25.38	-2.71	-0.89



Analysis 903
Free Sulfur Dioxide

Grand Means		Summary Statistics	
	29.549 mg/L		28.090 mg/L
Std Dev Btwn Labs			
	3.197 mg/L		3.041 mg/L
Statistics based on 93 of 99 reporting participants			

Wines tested: SA37: Chardonnay; SA38: Chardonnay

Comments on Assigned Data Flags for Test #903

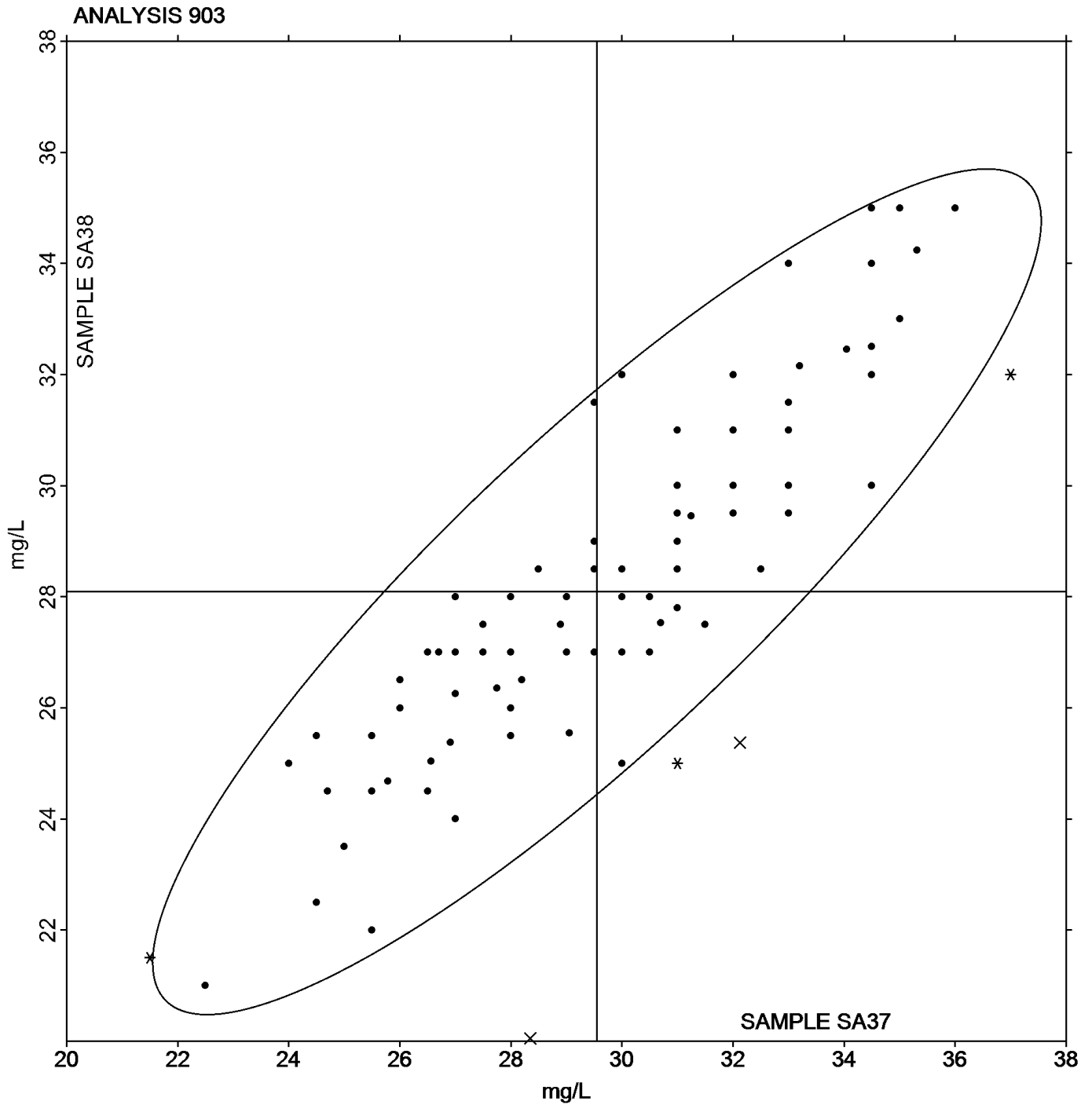
- FB4B7L (X) - Inconsistent in testing between samples, data for sample SA38 are low.
- DR3J8G (X) - Inconsistent in testing between samples.
- Z9BB8Q (X) - Inconsistent in testing between samples, data for sample SA38 are low.
- BTYCRG (X) - Inconsistent in testing between samples, data for sample SA38 are low.
- GFCLM2 (X) - Inconsistent in testing between samples.
- 6N8PMF (X) - Inconsistent in testing between samples.

Results by Methodology (as reported by laboratory)

Test Methodology	Sample SA37 <i>Chardonnay</i>			Sample SA38 <i>Chardonnay</i>			Labs Incl / Rpt
	Group Mean	Btwn Lab STD	Diff from GM	Group Mean	Btwn Lab STD	Diff from GM	
Please specify method used	33.000	0.000	3.45	34.000	0.000	5.91	1/1
Ripper Method	30.497	2.746	0.95	28.813	2.810	0.72	32/33
Aeration Oxidation (AO) Method	28.536	3.432	-1.01	27.323	3.170	-0.77	27/30
Segmented Flow Analyzer	30.756	3.181	1.21	29.369	2.480	1.28	8/8
Enzymatic Method	27.383	1.729	-2.17	26.117	1.514	-1.97	3/5
Colormetric Analyzer	28.781	2.350	-0.77	27.506	2.181	-0.58	8/8
Flow Injection Analysis	27.726	2.635	-1.82	26.125	2.513	-1.96	9/9
FTIR	32.140	4.080	2.59	30.030	4.019	1.94	5/5



Analysis 903
Free Sulfur Dioxide





Analysis 904
Titratable Acidity

WebCode	Data Flag	Sample SA37			Sample SA38		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2NWE67		5.600	0.142	0.85	5.660	0.134	0.77
3GVJLX		5.560	0.102	0.61	5.570	0.044	0.25
3JLT8F		5.575	0.117	0.70	5.610	0.084	0.48
3VV4JN		5.550	0.092	0.55	5.625	0.099	0.57
3VVTGD		5.485	0.027	0.16	5.590	0.064	0.37
3Z6G2M		5.560	0.102	0.61	5.625	0.099	0.57
49GUJJ		5.300	-0.158	-0.94	5.400	-0.126	-0.73
4F2V43		5.685	0.227	1.36	5.755	0.229	1.32
676EPH		5.405	-0.053	-0.31	5.485	-0.041	-0.24
6EXTPH		5.400	-0.058	-0.34	5.500	-0.026	-0.15
6H4LWH		5.285	-0.173	-1.03	5.270	-0.256	-1.48
6N8PMF		5.760	0.302	1.80	5.830	0.304	1.75
6TFHNJ		5.490	0.032	0.19	5.635	0.109	0.63
7993VE		5.300	-0.158	-0.94	5.400	-0.126	-0.73
7ETR3M		5.740	0.282	1.69	5.830	0.304	1.75
7N3Z73		5.300	-0.158	-0.94	5.400	-0.126	-0.73
7VJVMW		5.575	0.117	0.70	5.620	0.094	0.54
7XB2JA	*	5.880	0.422	2.52	5.965	0.439	2.53
7ZBZDF		5.600	0.142	0.85	5.600	0.074	0.43
84CXFF	X	5.400	-0.058	-0.34	5.250	-0.276	-1.60
87HQGL		5.340	-0.118	-0.70	5.410	-0.116	-0.67
8CMM4T		5.300	-0.158	-0.94	5.400	-0.126	-0.73
8WANB9		5.455	-0.003	-0.02	5.490	-0.036	-0.21
9VCVQ9	*	5.950	0.492	2.94	6.000	0.474	2.74
A82NMF		5.310	-0.148	-0.88	5.390	-0.136	-0.79
AHMQ8V		5.205	-0.253	-1.51	5.300	-0.226	-1.31
BPJAXD		5.488	0.030	0.18	5.475	-0.051	-0.30
BPZY9X		5.300	-0.158	-0.94	5.350	-0.176	-1.02
BQUCJC		5.300	-0.158	-0.94	5.400	-0.126	-0.73
BTYCRG		5.420	-0.038	-0.22	5.495	-0.031	-0.18
D4ANYV	*	5.300	-0.158	-0.94	5.500	-0.026	-0.15
DDFYH2		5.600	0.142	0.85	5.700	0.174	1.00
DDKQKW		5.300	-0.158	-0.94	5.400	-0.126	-0.73
DQMGZ9		5.520	0.062	0.37	5.570	0.044	0.25
DR3J8G	X	4.675	-0.783	-4.67	4.788	-0.739	-4.27



Analysis 904
Titratable Acidity

WebCode	Data Flag	Sample SA37			Sample SA38		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
DUJ3RC		5.440	-0.018	-0.10	5.515	-0.011	-0.07
E3UPF7	X	5.295	-0.163	-0.97	5.040	-0.486	-2.81
EC4LD6		5.613	0.155	0.92	5.752	0.226	1.30
EKT8J3	*	5.200	-0.258	-1.54	5.395	-0.131	-0.76
F836PU		5.360	-0.098	-0.58	5.455	-0.071	-0.41
FB4B7L		5.400	-0.058	-0.34	5.400	-0.126	-0.73
FNU84D		5.500	0.042	0.25	5.600	0.074	0.43
FXGT23		5.400	-0.058	-0.34	5.500	-0.026	-0.15
GELXBD		5.500	0.042	0.25	5.600	0.074	0.43
GFCLM2		5.730	0.272	1.63	5.790	0.264	1.52
GJRQ7A		5.400	-0.058	-0.34	5.400	-0.126	-0.73
H34U67		5.145	-0.313	-1.86	5.205	-0.321	-1.86
H82LQ6	X	5.400	-0.058	-0.34	5.813	0.286	1.65
HF7T76		5.750	0.292	1.74	5.800	0.274	1.58
HWYWXM		5.350	-0.108	-0.64	5.400	-0.126	-0.73
J4WDYZ	*	5.635	0.177	1.06	5.825	0.299	1.73
JG32Y2		5.500	0.042	0.25	5.500	-0.026	-0.15
JY2EAN		5.270	-0.188	-1.12	5.330	-0.196	-1.13
JY2J2Y		5.330	-0.128	-0.76	5.330	-0.196	-1.13
KFZQHP		5.180	-0.278	-1.66	5.170	-0.356	-2.06
KKVKD6		5.395	-0.063	-0.37	5.405	-0.121	-0.70
LW2KfV		5.365	-0.093	-0.55	5.430	-0.096	-0.56
M4XAJX	*	5.025	-0.433	-2.58	5.025	-0.501	-2.90
M82BWW		5.595	0.137	0.82	5.650	0.124	0.71
MJT2GZ		5.400	-0.058	-0.34	5.500	-0.026	-0.15
MMTBNW	X	6.150	0.692	4.13	6.050	0.524	3.03
MUR8H8		5.350	-0.108	-0.64	5.500	-0.026	-0.15
MXBPQY		5.495	0.037	0.22	5.515	-0.011	-0.07
N4FHAD		5.630	0.172	1.03	5.665	0.139	0.80
NCTYTU		5.600	0.142	0.85	5.700	0.174	1.00
NLYGB6		5.375	-0.083	-0.49	5.440	-0.086	-0.50
PKY4HP		5.490	0.032	0.19	5.570	0.044	0.25
PQ4Z3P		5.550	0.092	0.55	5.500	-0.026	-0.15
PRZH4Q	X	3.460	-1.998	-11.92	3.510	-2.016	-11.65
Q7BFLW		5.455	-0.003	-0.02	5.515	-0.011	-0.07

Analysis 904
Titratable Acidity

WebCode	Data Flag	Sample SA37			Sample SA38		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
QHTXGP		5.350	-0.108	-0.64	5.500	-0.026	-0.15
QZP26X		5.600	0.142	0.85	5.700	0.174	1.00
RKAMFR		5.500	0.042	0.25	5.600	0.074	0.43
RWZ7HG		5.560	0.102	0.61	5.690	0.164	0.95
TMFYJR	X	5.830	0.372	2.22	5.460	-0.066	-0.38
TMUNHX		5.300	-0.158	-0.94	5.400	-0.126	-0.73
U68UMM		5.400	-0.058	-0.34	5.400	-0.126	-0.73
U987HM		5.550	0.092	0.55	5.610	0.084	0.48
UAMZ7U	*	5.570	0.112	0.67	5.480	-0.046	-0.27
UMPLB6	*	5.950	0.492	2.94	5.975	0.449	2.59
UVJ4ZU		5.520	0.062	0.37	5.455	-0.071	-0.41
V4C7TB		5.500	0.042	0.25	5.600	0.074	0.43
VYKWHC		5.400	-0.058	-0.34	5.500	-0.026	-0.15
W2448K		5.375	-0.083	-0.49	5.460	-0.066	-0.38
WBADM4		5.300	-0.158	-0.94	5.400	-0.126	-0.73
WDXUYW		5.400	-0.058	-0.34	5.505	-0.021	-0.12
WZ9V8U		5.450	-0.008	-0.05	5.500	-0.026	-0.15
XKU7C7		5.440	-0.018	-0.10	5.485	-0.041	-0.24
XXV8ZM		5.250	-0.208	-1.24	5.360	-0.166	-0.96
XZZX6G		5.350	-0.108	-0.64	5.500	-0.026	-0.15
Z68DZ4		5.500	0.042	0.25	5.600	0.074	0.43
Z9BB8Q	X	5.600	0.142	0.85	5.300	-0.226	-1.31
ZBD8VY		5.390	-0.068	-0.40	5.465	-0.061	-0.35
ZBXNB3		5.580	0.122	0.73	5.660	0.134	0.77
ZKN9FZ		5.400	-0.058	-0.34	5.500	-0.026	-0.15
ZR7CCN		5.615	0.157	0.94	5.740	0.214	1.23
ZRK9QL		5.140	-0.318	-1.89	5.160	-0.366	-2.12
ZWURMU		5.550	0.092	0.55	5.650	0.124	0.71
ZY723L		5.525	0.067	0.40	5.610	0.084	0.48
ZZVXHM	*	5.365	-0.093	-0.55	5.290	-0.236	-1.37



Analysis 904
Titratable Acidity

Grand Means		Summary Statistics	
	5.4576 g/L as tartaric acid		5.5264 g/L as tartaric acid
Std Dev Btwn Labs			
	0.1676 g/L as tartaric acid		0.1731 g/L as tartaric acid
Statistics based on 92 of 100 reporting participants			

Wines tested: SA37: Chardonnay; SA38: Chardonnay

Comments on Assigned Data Flags for Test #904

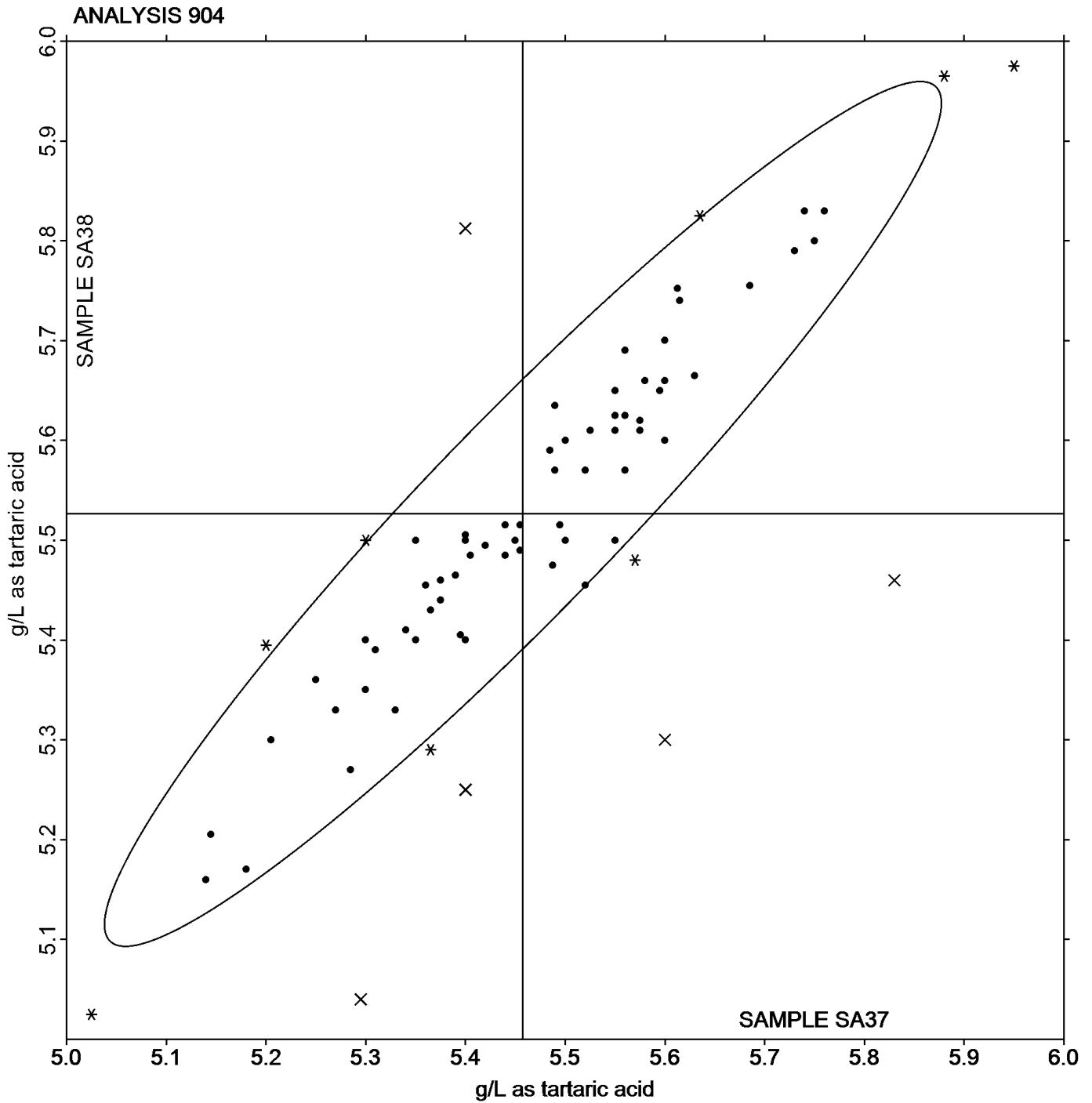
- E3UPF7 (X) - Inconsistent in testing between samples, data for sample SA38 are low.
- TMFYJR (X) - Inconsistent in testing between samples.
- DR3J8G (X) - Data for both samples are low. Possible Systematic Error. Inconsistent within the determinations of sample SA37.
- Z9BB8Q (X) - Inconsistent in testing between samples.
- MMTBNW (X) - Data for both samples are high. Possible Systematic Error.
- PRZH4Q (X) - Data for both samples are low.
- 84CXFF (X) - Inconsistent in testing between samples.
- H82LQ6 (X) - Inconsistent in testing between samples.

Results by Methodology (as reported by laboratory)

Test Methodology	Sample SA37 <i>Chardonnay</i>			Sample SA38 <i>Chardonnay</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	5.442	0.139	-0.015	5.518	0.142	-0.008	55/58
Manual Titration	5.455	0.194	-0.003	5.511	0.210	-0.015	25/27
FTIR	5.566	0.196	0.109	5.635	0.179	0.108	11/13
Segmented Flow Analyzer	5.180	0.000	-0.278	5.170	0.000	-0.356	1/1



Analysis 904
Titratable Acidity



Analysis 905
Volatile Acidity

Fall 2021

WebCode	Data Flag	Sample SA37			Sample SA38		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2NWE67		0.2530	0.0411	1.09	0.2620	0.0468	1.22
3GVJLX		0.2055	-0.0064	-0.17	0.2075	-0.0077	-0.20
3JLT8F		0.2850	0.0731	1.94	0.3000	0.0848	2.21
3VV4JN		0.1750	-0.0369	-0.98	0.1850	-0.0302	-0.79
3VVTGD	X	0.0750	-0.1369	-3.63	0.0850	-0.1302	-3.39
3Z6G2M		0.1950	-0.0169	-0.45	0.1950	-0.0202	-0.53
49GUJJ		0.2650	0.0531	1.41	0.2500	0.0348	0.91
4F2V43	*	0.3250	0.1131	3.00	0.3300	0.1148	2.99
676EPH		0.2050	-0.0069	-0.18	0.2150	-0.0002	-0.01
6EXTPH		0.2000	-0.0119	-0.32	0.2050	-0.0102	-0.27
6H4LWH		0.2450	0.0331	0.88	0.2300	0.0148	0.38
6N8PMF	*	0.1400	-0.0719	-1.91	0.1200	-0.0952	-2.48
6TFHJ		0.2100	-0.0019	-0.05	0.2150	-0.0002	-0.01
7993VE		0.1850	-0.0269	-0.71	0.1800	-0.0352	-0.92
7ETR3M	*	0.1900	-0.0219	-0.58	0.2200	0.0048	0.12
7N3Z73		0.2300	0.0181	0.48	0.2400	0.0248	0.65
7VJVMW	X	0.3500	0.1381	3.66	0.3550	0.1398	3.64
7XB2JA		0.2500	0.0381	1.01	0.2650	0.0498	1.30
7ZBZDF		0.2900	0.0781	2.07	0.3000	0.0848	2.21
84CXFF		0.2200	0.0081	0.21	0.2200	0.0048	0.12
87HQGL		0.2200	0.0081	0.21	0.2100	-0.0052	-0.14
8J7RYE		0.1500	-0.0619	-1.64	0.1400	-0.0752	-1.96
8WANB9		0.1300	-0.0819	-2.17	0.1400	-0.0752	-1.96
9VCVQ9		0.2100	-0.0019	-0.05	0.2200	0.0048	0.12
A82NMF		0.2100	-0.0019	-0.05	0.2100	-0.0052	-0.14
AHMQ8V		0.2000	-0.0119	-0.32	0.2150	-0.0002	-0.01
BPZY9X		0.2200	0.0081	0.21	0.2400	0.0248	0.65
BQUCJC		0.1800	-0.0319	-0.85	0.1700	-0.0452	-1.18
BTYCRG		0.2750	0.0631	1.67	0.2800	0.0648	1.69
D4ANYV		0.2850	0.0731	1.94	0.2900	0.0748	1.95
DDFYH2		0.1900	-0.0219	-0.58	0.1900	-0.0252	-0.66
DDKQKW		0.2350	0.0231	0.61	0.2450	0.0298	0.78
DQMGZ9		0.1750	-0.0369	-0.98	0.1750	-0.0402	-1.05
DR3J8G	X	0.2000	-0.0119	-0.32	0.2500	0.0348	0.91
DUJ3RC		0.2050	-0.0069	-0.18	0.2050	-0.0102	-0.27



Analysis 905
Volatile Acidity

WebCode	Data Flag	Sample SA37			Sample SA38		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
E3UPF7		0.1640	-0.0479	-1.27	0.1705	-0.0447	-1.17
EC4LD6		0.2650	0.0531	1.41	0.2600	0.0448	1.17
EKT8J3	X	0.2055	-0.0064	-0.17	0.1625	-0.0527	-1.37
F836PU	X	0.0450	-0.1669	-4.42	0.0455	-0.1697	-4.42
FB4B7L	X	0.3000	0.0881	2.33	0.3600	0.1448	3.77
FNU84D		0.3000	0.0881	2.33	0.3100	0.0948	2.47
FXGT23		0.1300	-0.0819	-2.17	0.1350	-0.0802	-2.09
GELXBD		0.2300	0.0181	0.48	0.2300	0.0148	0.38
GFCLM2		0.1850	-0.0269	-0.71	0.1950	-0.0202	-0.53
GJRQ7A	*	0.1450	-0.0669	-1.77	0.1700	-0.0452	-1.18
H34U67		0.2300	0.0181	0.48	0.2300	0.0148	0.38
HF7T76		0.2300	0.0181	0.48	0.2400	0.0248	0.65
HWYWXM		0.2000	-0.0119	-0.32	0.1900	-0.0252	-0.66
J4WDYZ		0.1900	-0.0219	-0.58	0.1900	-0.0252	-0.66
JG32Y2		0.2150	0.0031	0.08	0.2250	0.0098	0.25
JY2EAN	X	0.3000	0.0881	2.33	0.2400	0.0248	0.65
JY2J2Y	X	0.0790	-0.1329	-3.52	0.0810	-0.1342	-3.50
KFZQHP		0.2400	0.0281	0.74	0.2250	0.0098	0.25
KKVKD6		0.1700	-0.0419	-1.11	0.1800	-0.0352	-0.92
LW2KfV		0.2100	-0.0019	-0.05	0.2150	-0.0002	-0.01
M4XAJX		0.2340	0.0221	0.59	0.2160	0.0008	0.02
M82BWW		0.1925	-0.0194	-0.51	0.1990	-0.0162	-0.42
MJT2GZ		0.1900	-0.0219	-0.58	0.2000	-0.0152	-0.40
MMTBNW		0.1950	-0.0169	-0.45	0.2000	-0.0152	-0.40
MUR8H8		0.1800	-0.0319	-0.85	0.1800	-0.0352	-0.92
MXBPQY		0.2700	0.0581	1.54	0.2650	0.0498	1.30
N4FHAD		0.2100	-0.0019	-0.05	0.2100	-0.0052	-0.14
NCTYTU		0.2100	-0.0019	-0.05	0.2200	0.0048	0.12
NLYGB6		0.2025	-0.0094	-0.25	0.2115	-0.0037	-0.10
PKY4HP	X	0.1700	-0.0419	-1.11	0.2600	0.0448	1.17
PQ4Z3P		0.1750	-0.0369	-0.98	0.1800	-0.0352	-0.92
PRZH4Q		0.2400	0.0281	0.74	0.2500	0.0348	0.91
Q7BFLW		0.2200	0.0081	0.21	0.2400	0.0248	0.65
QHTXGP		0.1950	-0.0169	-0.45	0.1950	-0.0202	-0.53
QZP26X		0.1750	-0.0369	-0.98	0.1650	-0.0502	-1.31



**Analysis 905
Volatile Acidity**

WebCode	Data Flag	Sample SA37			Sample SA38		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
RKAMFR		0.2300	0.0181	0.48	0.2200	0.0048	0.12
RWZ7HG		0.2300	0.0181	0.48	0.2100	-0.0052	-0.14
TMFYJR		0.2100	-0.0019	-0.05	0.1900	-0.0252	-0.66
TMUNHX		0.2300	0.0181	0.48	0.2300	0.0148	0.38
U68UMM		0.1550	-0.0569	-1.51	0.1600	-0.0552	-1.44
U987HM		0.1750	-0.0369	-0.98	0.1850	-0.0302	-0.79
UAMZ7U		0.2150	0.0031	0.08	0.2350	0.0198	0.52
UMPLB6		0.1900	-0.0219	-0.58	0.2000	-0.0152	-0.40
UVJ4ZU		0.2000	-0.0119	-0.32	0.2000	-0.0152	-0.40
V4C7TB		0.2450	0.0331	0.88	0.2550	0.0398	1.04
VYKWHC		0.2450	0.0331	0.88	0.2450	0.0298	0.78
W2448K		0.1900	-0.0219	-0.58	0.2050	-0.0102	-0.27
WBADM4		0.2050	-0.0069	-0.18	0.2100	-0.0052	-0.14
WDXUYW		0.1765	-0.0354	-0.94	0.1790	-0.0362	-0.94
WZ9V8U		0.1950	-0.0169	-0.45	0.2050	-0.0102	-0.27
XXV8ZM		0.2200	0.0081	0.21	0.2400	0.0248	0.65
XZZX6G		0.1850	-0.0269	-0.71	0.2000	-0.0152	-0.40
Z68DZ4		0.2100	-0.0019	-0.05	0.2100	-0.0052	-0.14
Z9BB8Q		0.1850	-0.0269	-0.71	0.1900	-0.0252	-0.66
ZBD8VY		0.1950	-0.0169	-0.45	0.2050	-0.0102	-0.27
ZBXNB3		0.2200	0.0081	0.21	0.2200	0.0048	0.12
ZKN9FZ		0.2900	0.0781	2.07	0.2850	0.0698	1.82
ZR7CCN		0.2000	-0.0119	-0.32	0.2000	-0.0152	-0.40
ZRK9QL		0.2550	0.0431	1.14	0.2500	0.0348	0.91
ZWURMU		0.2100	-0.0019	-0.05	0.2100	-0.0052	-0.14
ZY723L		0.2400	0.0281	0.74	0.2400	0.0248	0.65
ZZVXHM		0.2000	-0.0119	-0.32	0.1950	-0.0202	-0.53

Grand Means		Summary Statistics	
	0.21191 g/L as acetic acid		0.21523 g/L as acetic acid
Std Dev Btwn Labs			
	0.03773 g/L as acetic acid		0.03837 g/L as acetic acid
Statistics based on 88 of 97 reporting participants			

Wines tested: SA37: Chardonnay; SA38: Chardonnay



**Analysis 905
Volatile Acidity**

Comments on Assigned Data Flags for Test #905

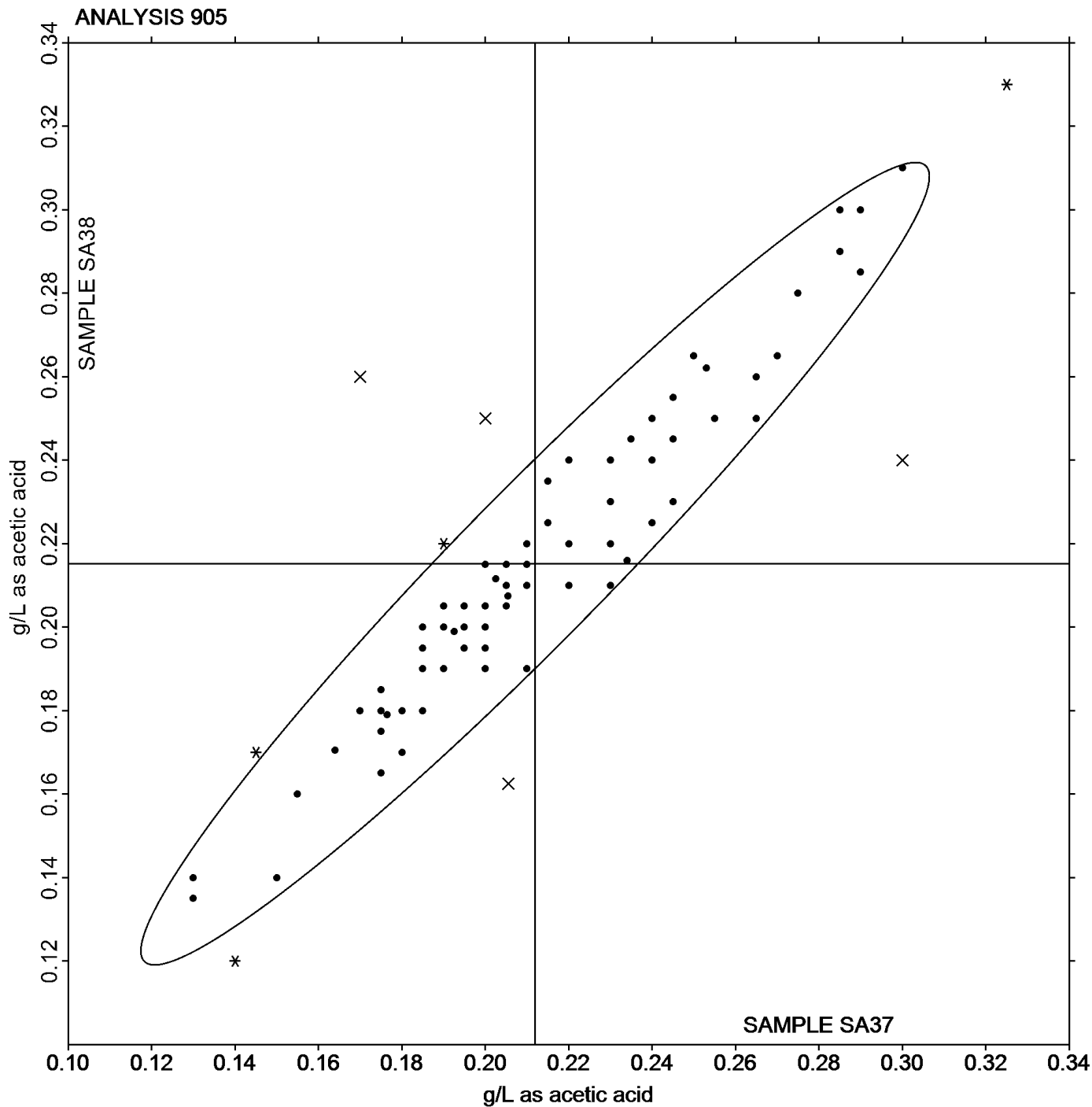
- 7VJVMW (X) - Data for both samples are high. Possible Systematic Error.
- FB4B7L (X) - Inconsistent in testing between samples, data for sample SA38 are high. Inconsistent within the determinations of sample SA37.
- JY2EAN (X) - Inconsistent in testing between samples.
- F836PU (X) - Data for both samples are low. Possible Systematic Error.
- DR3J8G (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample SA38.
- JY2J2Y (X) - Data for both samples are low. Possible Systematic Error.
- EKT8J3 (X) - Inconsistent in testing between samples.
- PKY4HP (X) - Inconsistent in testing between samples.
- 3VVTGD (X) - Data for both samples are low. Possible Systematic Error.

Results by Methodology (as reported by laboratory)

Test Methodology	Sample SA37 <i>Chardonnay</i>			Sample SA38 <i>Chardonnay</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
Cash Still method	0.246	0.020	0.0336	0.247	0.023	0.0318	8/10
Enzymatic method	0.202	0.031	-0.0095	0.205	0.031	-0.0098	63/66
GC	0.230	0.000	0.0181	0.210	0.000	-0.0052	1/1
Seg. Flow / Colorimetric Analyzer	0.220	0.020	0.0081	0.223	0.018	0.0081	3/3
FTIR	0.234	0.059	0.0219	0.242	0.058	0.0267	13/16



Analysis 905
Volatile Acidity





Analysis 906
Specific Gravity

WebCode	Data Flag	Sample SA37			Sample SA38		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2NWE67		0.9980	0.0001	0.18	0.9978	0.0001	0.22
3GVJLX		0.9980	0.0002	0.31	0.9978	0.0001	0.20
3JLT8F		0.9979	0.0001	0.18	0.9977	0.0001	0.17
3VV4JN		0.9979	0.0001	0.11	0.9977	0.0001	0.10
3VVTGD	*	0.9979	0.0001	0.11	0.9980	0.0004	0.56
3Z6G2M	X	0.9847	-0.0131	-20.51	0.9845	-0.0131	-20.02
49GUJJ		0.9980	0.0001	0.20	0.9978	0.0001	0.20
4F2V43		0.9983	0.0004	0.65	0.9981	0.0004	0.63
676EPH		0.9980	0.0002	0.26	0.9978	0.0002	0.25
6EXTPH		0.9980	0.0001	0.20	0.9978	0.0001	0.22
6H4LWH		0.9979	0.0001	0.11	0.9977	0.0001	0.10
6N8PMF	X	1.0044	0.0066	10.25	1.0043	0.0067	10.15
6TFHJ	X	0.9980	0.0002	0.26	0.9983	0.0007	1.01
7ETR3M		0.9979	0.0001	0.17	0.9978	0.0001	0.18
7N3Z73		0.9979	0.0001	0.17	0.9977	0.0001	0.15
7VJVMW		0.9979	0.0000	0.03	0.9978	0.0002	0.25
7XB2JA		0.9979	0.0001	0.15	0.9977	0.0001	0.11
7ZBZDF		0.9980	0.0002	0.26	0.9978	0.0002	0.25
84CXFF		0.9975	-0.0003	-0.52	0.9973	-0.0003	-0.51
8CMM4T		0.9979	0.0001	0.14	0.9977	0.0001	0.14
8J7RYE		0.9979	0.0001	0.15	0.9977	0.0001	0.15
8WANB9		0.9987	0.0008	1.32	0.9984	0.0008	1.23
9VCVQ9		0.9984	0.0006	0.95	0.9983	0.0007	1.08
AHMQ8V		0.9963	-0.0015	-2.39	0.9961	-0.0015	-2.34
BPJAXD	X	1.0008	0.0030	4.62	0.9988	0.0012	1.76
BPZY9X		0.9979	0.0001	0.13	0.9977	0.0001	0.11
BQUCJC		0.9980	0.0002	0.26	0.9979	0.0002	0.33
BTYCRG		0.9981	0.0003	0.42	0.9977	0.0001	0.10
D4ANYV		0.9962	-0.0017	-2.61	0.9959	-0.0017	-2.59
DDFYH2		0.9981	0.0002	0.34	0.9978	0.0002	0.25
DDKQKW		0.9979	0.0001	0.11	0.9977	0.0001	0.10
DQMGZ9		0.9986	0.0008	1.20	0.9983	0.0007	1.01
DR3J8G	X	0.9975	-0.0003	-0.52	0.9970	-0.0006	-0.97
E3UPF7		0.9979	0.0001	0.16	0.9977	0.0001	0.17
EC4LD6		0.9979	0.0001	0.08	0.9977	0.0001	0.16



Analysis 906
Specific Gravity

WebCode	Data Flag	Sample SA37			Sample SA38		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
EKT8J3		0.9962	-0.0016	-2.52	0.9960	-0.0016	-2.47
F836PU		0.9982	0.0003	0.50	0.9980	0.0003	0.48
FB4B7L	X	0.9970	-0.0009	-1.34	0.9963	-0.0014	-2.09
FNU84D	*	0.9988	0.0010	1.50	0.9988	0.0012	1.76
GELXBD		0.9980	0.0002	0.26	0.9978	0.0002	0.25
GFCLM2		0.9963	-0.0015	-2.39	0.9962	-0.0014	-2.18
GJRQ7A		0.9981	0.0002	0.36	0.9978	0.0002	0.28
H34U67		0.9978	0.0000	-0.05	0.9976	0.0000	-0.05
H82LQ6	X	1.0001	0.0023	3.53	0.9997	0.0021	3.13
HWYWXM		0.9980	0.0002	0.25	0.9978	0.0001	0.22
J4WDYZ		0.9988	0.0009	1.46	0.9986	0.0009	1.42
JG32Y2		0.9979	0.0001	0.17	0.9977	0.0001	0.15
JY2J2Y	*	0.9988	0.0010	1.50	0.9988	0.0012	1.76
KFZQHP		0.9979	0.0001	0.15	0.9977	0.0001	0.12
KKVKD6	X	0.9955	-0.0023	-3.64	0.9955	-0.0021	-3.25
LW2KFV		0.9979	0.0001	0.11	0.9977	0.0001	0.10
M4XAJX		0.9980	0.0002	0.26	0.9980	0.0004	0.56
M82BWW		0.9980	0.0001	0.23	0.9978	0.0001	0.21
MJT2GZ		0.9988	0.0010	1.51	0.9986	0.0010	1.47
MMTBNW		0.9971	-0.0008	-1.20	0.9969	-0.0008	-1.17
MUR8H8		0.9979	0.0001	0.14	0.9977	0.0001	0.13
N4FHAD	X	0.9790	-0.0188	-29.40	0.9770	-0.0206	-31.42
NCTYTU	*	0.9988	0.0010	1.50	0.9988	0.0012	1.76
NLYGB6		0.9980	0.0002	0.26	0.9977	0.0001	0.10
PKY4HP		0.9979	0.0001	0.16	0.9977	0.0001	0.14
PQ4Z3P		0.9983	0.0005	0.73	0.9982	0.0005	0.78
PRZH4Q		0.9962	-0.0016	-2.55	0.9960	-0.0016	-2.49
Q7BFLW		0.9979	0.0001	0.16	0.9977	0.0001	0.08
QHTXGP		0.9979	0.0001	0.11	0.9977	0.0001	0.08
R4HG UW		0.9979	0.0001	0.17	0.9977	0.0001	0.16
RWZ7HG		0.9980	0.0002	0.28	0.9978	0.0002	0.29
TMUNHX		0.9978	0.0000	-0.05	0.9976	0.0000	-0.05
U68UMM		0.9980	0.0002	0.25	0.9978	0.0002	0.24
U987HM		0.9980	0.0001	0.19	0.9978	0.0001	0.22
UMPLB6		0.9981	0.0003	0.41	0.9979	0.0003	0.41



**Analysis 906
Specific Gravity**

WebCode	Data Flag	Sample SA37			Sample SA38		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
UVJ4ZU		0.9961	-0.0017	-2.70	0.9959	-0.0018	-2.72
V4C7TB		0.9978	0.0000	-0.05	0.9976	0.0000	-0.05
WBADM4		0.9980	0.0002	0.29	0.9978	0.0002	0.27
WDXUYW		0.9981	0.0003	0.42	0.9979	0.0002	0.33
XKU7C7		0.9979	0.0001	0.13	0.9977	0.0001	0.11
XZZX6G		0.9982	0.0004	0.57	0.9980	0.0004	0.56
Z68DZ4		0.9979	0.0001	0.16	0.9977	0.0001	0.16
Z9BB8Q		0.9970	-0.0008	-1.24	0.9968	-0.0008	-1.21
ZBD8VY	X	0.9984	0.0005	0.81	0.9978	0.0001	0.19
ZKN9FZ		0.9979	0.0001	0.15	0.9977	0.0001	0.15
ZR7CCN		0.9974	-0.0005	-0.75	0.9973	-0.0004	-0.59
ZWURMU	*	0.9957	-0.0022	-3.41	0.9954	-0.0022	-3.40
ZY723L		0.9978	0.0000	0.02	0.9977	0.0000	0.02
ZZVXHM		0.9976	-0.0003	-0.44	0.9973	-0.0003	-0.51

Grand Means		Summary Statistics	
0.99783	sp gr 20/20 C	0.99763	sp gr 20/20 C
Std Dev Btwn Labs			
0.00064	sp gr 20/20 C	0.00066	sp gr 20/20 C
Statistics based on 74 of 84 reporting participants			

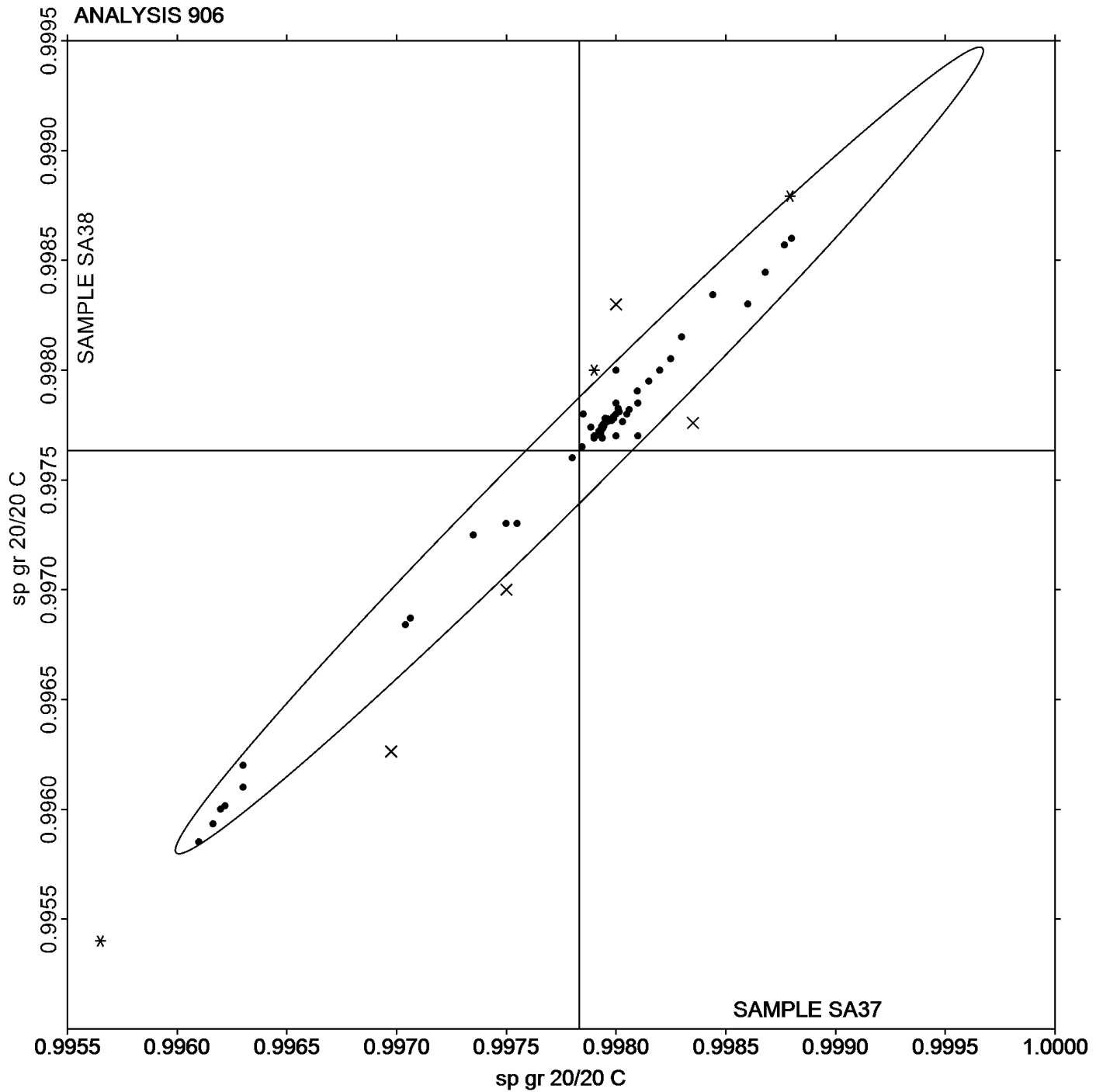
Wines tested: SA37: Chardonnay; SA38: Chardonnay

Comments on Assigned Data Flags for Test #906

- ZBD8VY (X) - Inconsistent in testing between samples.
- N4FHAD (X) - Data for both samples are low.
- FB4B7L (X) - Inconsistent in testing between samples.
- 6TFHJ (X) - Inconsistent in testing between samples.
- DR3J8G (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample SA37.
- 3Z6G2M (X) - Data for both samples are low.
- KKVKD6 (X) - Data for both samples are low. Inconsistent within the determinations of both samples.
- H82LQ6 (X) - Data for both samples are high. Possible Systematic Error.
- BPJAXD (X) - Inconsistent in testing between samples, data for sample SA37 are high.
- 6N8PMF (X) - Data for both samples are high.



Analysis 906
Specific Gravity





ASEV-CTS Wine Industry Interlaboratory Testing Program

Report #069

Analysis 907

Fall 2021

pH

WebCode	Data Flag	Sample SA37			Sample SA38		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2NWE67		3.616	0.007	0.27	3.610	0.001	0.05
3GVJLX		3.585	-0.024	-1.01	3.600	-0.009	-0.36
3JLT8F		3.615	0.006	0.23	3.610	0.001	0.05
3VV4JN		3.600	-0.009	-0.39	3.600	-0.009	-0.36
3VVTGD		3.605	-0.004	-0.18	3.610	0.001	0.05
3Z6G2M	*	3.545	-0.064	-2.67	3.535	-0.074	-3.02
49GUJJ		3.600	-0.009	-0.39	3.600	-0.009	-0.36
4F2V43		3.610	0.001	0.02	3.605	-0.004	-0.16
676EPH		3.570	-0.039	-1.63	3.570	-0.039	-1.59
6EXTPH		3.640	0.031	1.27	3.640	0.031	1.27
6H4LWH		3.605	-0.004	-0.18	3.610	0.001	0.05
6N8PMF	X	3.615	0.006	0.23	3.590	-0.019	-0.77
6TFHJ	X	3.650	0.041	1.68	3.540	-0.069	-2.81
7993VE		3.565	-0.044	-1.84	3.565	-0.044	-1.79
7ETR3M		3.620	0.011	0.44	3.620	0.011	0.46
7N3Z73		3.610	0.001	0.02	3.600	-0.009	-0.36
7VJVMW		3.620	0.011	0.44	3.620	0.011	0.46
7XB2JA		3.650	0.041	1.68	3.650	0.041	1.68
7ZBZDF		3.600	-0.009	-0.39	3.600	-0.009	-0.36
84CXFF		3.595	-0.014	-0.60	3.590	-0.019	-0.77
87HQGL		3.595	-0.014	-0.60	3.595	-0.014	-0.57
8CMM4T		3.645	0.036	1.47	3.650	0.041	1.68
8J7RYE		3.580	-0.029	-1.22	3.590	-0.019	-0.77
8WANB9		3.630	0.021	0.85	3.625	0.016	0.66
9VCVQ9		3.590	-0.019	-0.81	3.605	-0.004	-0.16
A82NMF		3.600	-0.009	-0.39	3.600	-0.009	-0.36
AHMQ8V		3.590	-0.019	-0.81	3.590	-0.019	-0.77
BPJAXD	*	3.608	-0.002	-0.08	3.628	0.019	0.76
BPZY9X	*	3.675	0.066	2.72	3.670	0.061	2.50
BQUCJC		3.580	-0.029	-1.22	3.585	-0.024	-0.97
BTYCRG		3.630	0.021	0.85	3.620	0.011	0.46
D4ANYV		3.580	-0.029	-1.22	3.570	-0.039	-1.59
DDFYH2		3.610	0.001	0.02	3.610	0.001	0.05
DDKQKW		3.610	0.001	0.02	3.610	0.001	0.05
DQMGZ9		3.660	0.051	2.09	3.660	0.051	2.09



WebCode	Data Flag	Sample SA37			Sample SA38		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
DR3J8G	*	3.620	0.011	0.44	3.600	-0.009	-0.36
DUJ3RC		3.620	0.011	0.44	3.620	0.011	0.46
E3UPF7		3.590	-0.019	-0.81	3.585	-0.024	-0.97
EC4LD6		3.590	-0.019	-0.81	3.585	-0.024	-0.97
EKT8J3	X	3.645	0.036	1.47	3.690	0.081	3.32
F836PU		3.615	0.006	0.23	3.620	0.011	0.46
FB4B7L	X	3.660	0.051	2.09	3.610	0.001	0.05
FNU84D		3.630	0.021	0.85	3.640	0.031	1.27
FXGT23		3.610	0.001	0.02	3.610	0.001	0.05
GELXBD	*	3.550	-0.059	-2.46	3.555	-0.054	-2.20
GFCLM2		3.590	-0.019	-0.81	3.580	-0.029	-1.18
GJRQ7A	*	3.620	0.011	0.44	3.600	-0.009	-0.36
H34U67	X	3.525	-0.084	-3.50	3.535	-0.074	-3.02
H82LQ6	X	3.630	0.021	0.85	3.660	0.051	2.09
HF7T76		3.605	-0.004	-0.18	3.610	0.001	0.05
HWYWXM		3.630	0.021	0.85	3.625	0.016	0.66
J4WDYZ		3.565	-0.044	-1.84	3.570	-0.039	-1.59
JG32Y2		3.610	0.001	0.02	3.610	0.001	0.05
JY2EAN	*	3.655	0.046	1.89	3.665	0.056	2.29
JY2J2Y		3.590	-0.019	-0.81	3.580	-0.029	-1.18
KKVKD6	X	3.570	-0.039	-1.63	3.595	-0.014	-0.57
LW2Kfv		3.635	0.026	1.06	3.635	0.026	1.07
M4XAJX		3.610	0.001	0.02	3.610	0.001	0.05
M82BWW		3.600	-0.009	-0.39	3.600	-0.009	-0.36
MJT2GZ		3.600	-0.009	-0.39	3.590	-0.019	-0.77
MMTBNW	X	3.410	-0.199	-8.26	3.400	-0.209	-8.53
MUR8H8		3.620	0.011	0.44	3.615	0.006	0.25
MXBPQY	*	3.575	-0.034	-1.43	3.590	-0.019	-0.77
N4FHAD		3.615	0.006	0.23	3.620	0.011	0.46
NCTYTU		3.630	0.021	0.85	3.635	0.026	1.07
NLYGB6		3.599	-0.010	-0.43	3.599	-0.010	-0.40
PKY4HP		3.630	0.021	0.85	3.630	0.021	0.86
PQ4Z3P		3.600	-0.009	-0.39	3.595	-0.014	-0.57
PRZH4Q		3.640	0.031	1.27	3.640	0.031	1.27
Q7BFLW		3.575	-0.034	-1.43	3.570	-0.039	-1.59



WebCode	Data Flag	Sample SA37			Sample SA38		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
QHTXGP		3.630	0.021	0.85	3.625	0.016	0.66
QZP26X		3.630	0.021	0.85	3.635	0.026	1.07
RKAMFR		3.640	0.031	1.27	3.630	0.021	0.86
RWZ7HG		3.620	0.011	0.44	3.625	0.016	0.66
TMFYJR		3.585	-0.024	-1.01	3.580	-0.029	-1.18
TMUNHX		3.620	0.011	0.44	3.620	0.011	0.46
U68UMM		3.610	0.001	0.02	3.610	0.001	0.05
U987HM		3.580	-0.029	-1.22	3.580	-0.029	-1.18
UAMZ7U		3.610	0.001	0.02	3.610	0.001	0.05
UMPLB6		3.590	-0.019	-0.81	3.595	-0.014	-0.57
UVJ4ZU		3.580	-0.029	-1.22	3.580	-0.029	-1.18
V4C7TB	X	3.690	0.081	3.34	3.685	0.076	3.11
VYKWHC		3.630	0.021	0.85	3.620	0.011	0.46
W2448K		3.610	0.001	0.02	3.600	-0.009	-0.36
WBADM4		3.600	-0.009	-0.39	3.600	-0.009	-0.36
WDXUYW		3.595	-0.015	-0.62	3.592	-0.017	-0.69
WZ9V8U		3.620	0.011	0.44	3.610	0.001	0.05
XXV8ZM		3.620	0.011	0.44	3.620	0.011	0.46
XZZX6G		3.659	0.050	2.05	3.650	0.041	1.66
Z68DZ4		3.605	-0.004	-0.18	3.610	0.001	0.05
Z9BB8Q	X	3.520	-0.089	-3.71	3.535	-0.074	-3.02
ZBD8VY		3.600	-0.009	-0.39	3.610	0.001	0.05
ZBXNB3	X	3.510	-0.099	-4.12	3.520	-0.089	-3.63
ZKN9FZ		3.610	0.001	0.02	3.615	0.006	0.25
ZR7CCN		3.610	0.001	0.02	3.600	-0.009	-0.36
ZRK9QL		3.635	0.026	1.06	3.645	0.036	1.48
ZWURMU		3.610	0.001	0.02	3.610	0.001	0.05
ZY723L		3.640	0.031	1.27	3.640	0.031	1.27
ZZVXHM		3.640	0.031	1.27	3.640	0.031	1.27

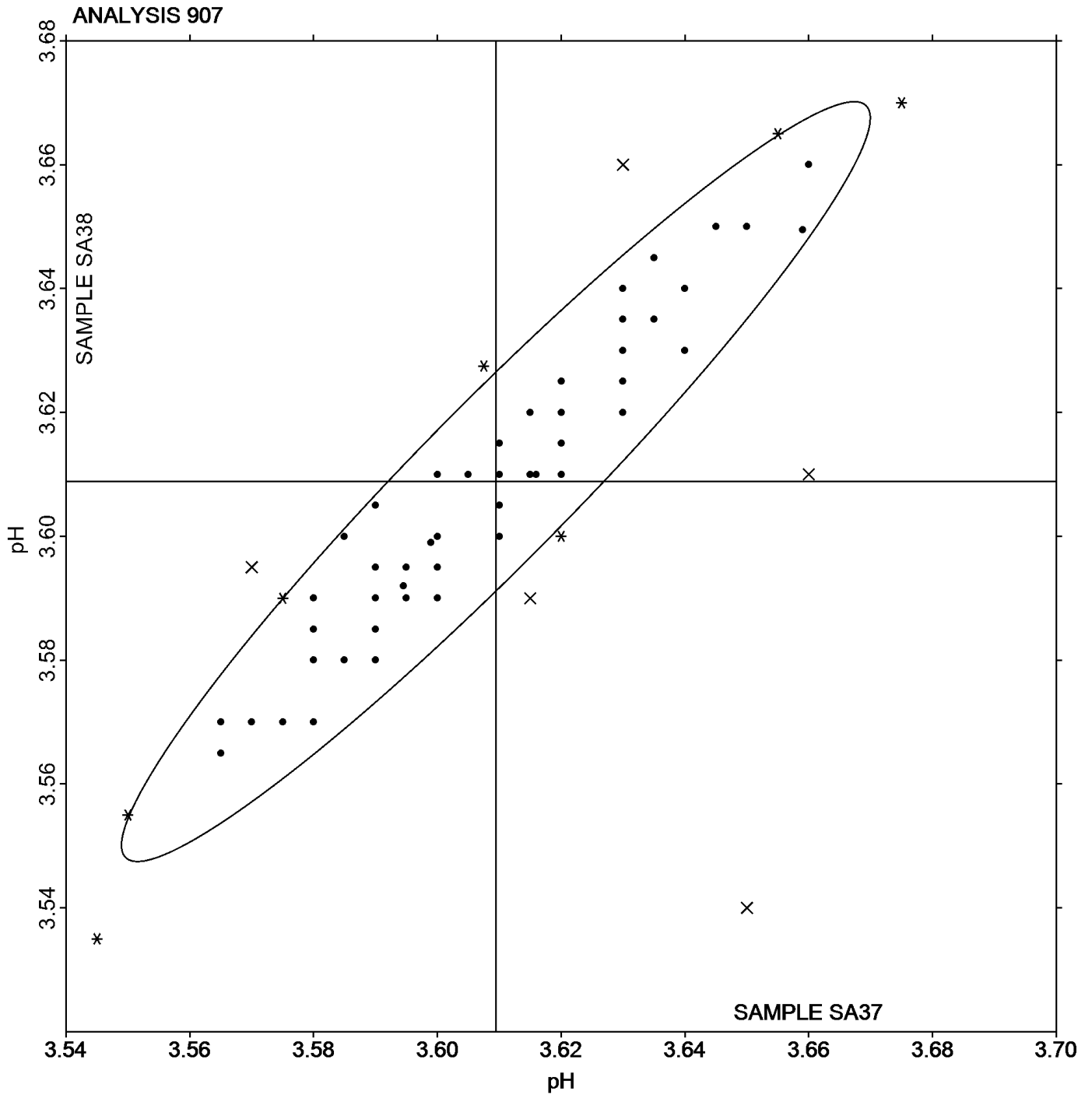


Grand Means	Summary Statistics
3.6094 pH	3.6088 pH
Std Dev Btwn Labs	
0.0241 pH	0.0245 pH
Statistics based on 88 of 99 reporting participants	

Wines tested: SA37: Chardonnay; SA38: Chardonnay

Comments on Assigned Data Flags for Test #907

- ZBXNB3 (X) - Data for both samples are low. Possible Systematic Error.
- FB4B7L (X) - Inconsistent in testing between samples.
- V4C7TB (X) - Data for both samples are high. Possible Systematic Error.
- 6TFHNJ (X) - Inconsistent in testing between samples, data for sample SA38 are low.
- H34U67 (X) - Data for both samples are low. Possible Systematic Error.
- Z9BB8Q (X) - Data for both samples are low. Possible Systematic Error.
- KKVKD6 (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample SA37.
- EKT8J3 (X) - Inconsistent in testing between samples, data for sample SA38 are high. Inconsistent within the determinations of sample SA38.
- MMTBNW (X) - Data for both samples are low.
- H82LQ6 (X) - Inconsistent in testing between samples.
- 6N8PMF (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample SA37.





ASEV-CTS Wine Industry Interlaboratory Testing Program

Report #069

Analysis 908 Residual Sugar

Fall 2021

WebCode	Data Flag	Sample SA37			Sample SA38		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2NWE67		12.43	-0.20	-0.22	11.72	-0.76	-0.88
3VVTGD	*	11.62	-1.01	-1.09	12.21	-0.27	-0.31
4F2V43		13.78	1.15	1.25	13.61	1.13	1.31
7ETR3M		11.80	-0.83	-0.90	11.60	-0.88	-1.01
7N3Z73		13.05	0.42	0.46	12.80	0.32	0.38
7XB2JA		11.90	-0.73	-0.79	12.35	-0.13	-0.15
7ZBZDF		13.80	1.17	1.27	13.50	1.02	1.19
8J7RYE		12.60	-0.03	-0.03	12.50	0.02	0.03
BPZY9X		12.15	-0.48	-0.52	11.85	-0.63	-0.73
DR3J8G		12.80	0.17	0.19	12.75	0.27	0.32
EKT8J3		12.70	0.07	0.08	12.30	-0.18	-0.20
FNU84D		11.80	-0.83	-0.90	11.40	-1.08	-1.25
GJRQ7A		11.00	-1.63	-1.77	11.00	-1.48	-1.71
H34U67		12.60	-0.03	-0.04	12.43	-0.05	-0.06
HWYWXM		13.25	0.62	0.67	13.00	0.52	0.61
KFZQHP		13.90	1.27	1.38	13.50	1.02	1.19
KKVKD6		11.46	-1.17	-1.27	11.65	-0.83	-0.96
M4XAJX		13.40	0.77	0.84	13.30	0.82	0.96
MMTBNW		13.58	0.95	1.03	13.59	1.11	1.29
MUR8H8		12.05	-0.58	-0.63	11.80	-0.68	-0.78
NCTYTU		12.95	0.32	0.35	12.75	0.27	0.32
PRZH4Q		12.70	0.07	0.08	12.70	0.22	0.26
Q7BFLW		12.71	0.08	0.08	12.82	0.34	0.40
TMFYJR		11.77	-0.86	-0.93	11.51	-0.97	-1.12
U68UMM		13.00	0.37	0.40	13.00	0.52	0.61
W2448K		12.00	-0.63	-0.68	11.85	-0.63	-0.73
XXV8ZM	*	15.00	2.37	2.57	14.40	1.92	2.23
ZRK9QL		13.34	0.71	0.77	13.12	0.64	0.75
ZY723L		11.10	-1.53	-1.66	10.80	-1.68	-1.94



Analysis 908
Residual Sugar

Grand Means		Summary Statistics	
	12.629 g/L		12.476 g/L
Stnd Dev Btwn Labs			0.863 g/L
	0.922 g/L		
Statistics based on 29 of 29 reporting participants			

Wines tested: SA37: Chardonnay; SA38: Chardonnay

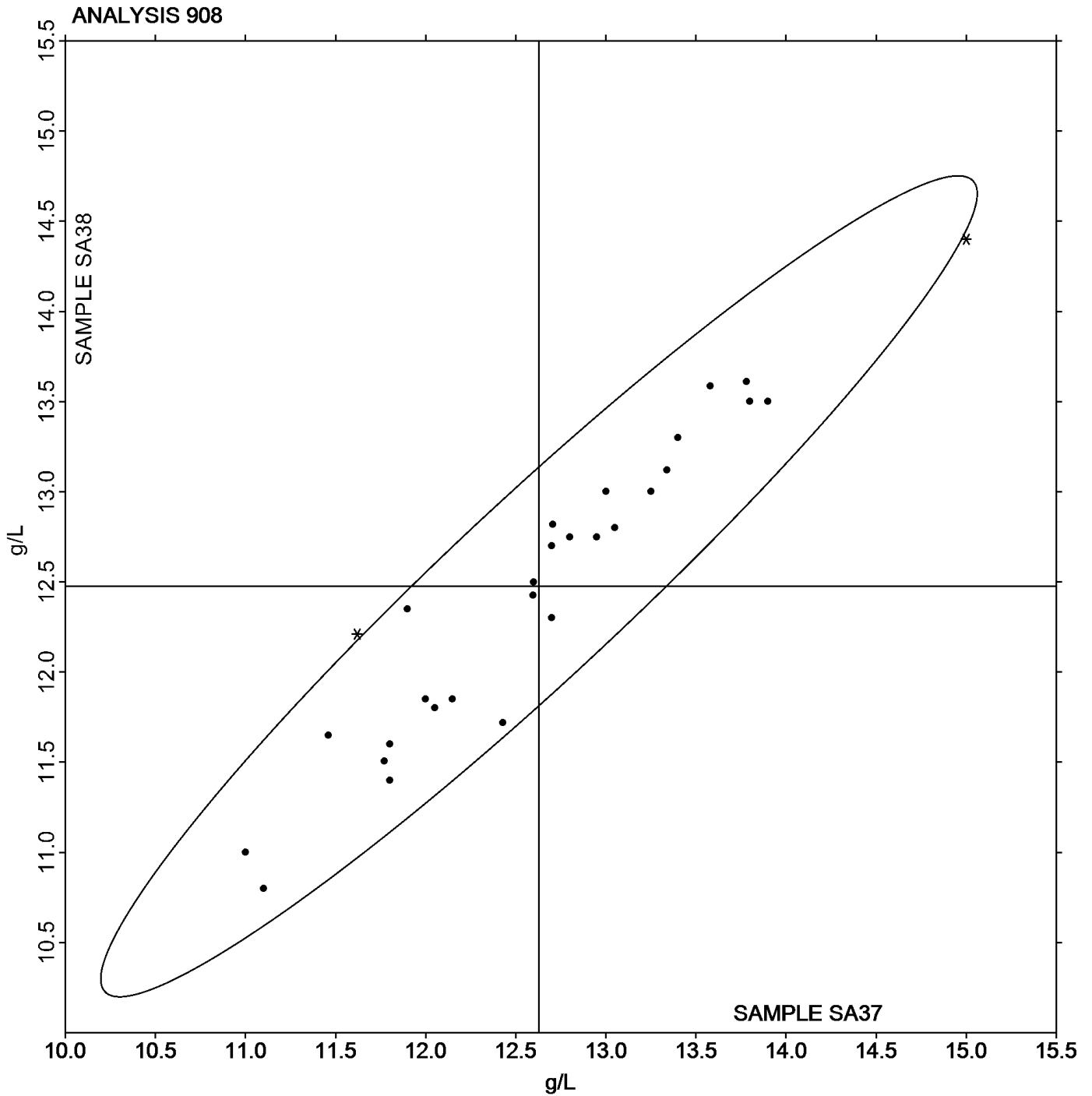
Results by Methodology (as reported by laboratory)

Test Methodology	Sample SA37 <i>Chardonnay</i>			Sample SA38 <i>Chardonnay</i>			Labs Incl / Rpt
	Group Mean	Btwn Lab STD	Diff from GM	Group Mean	Btwn Lab STD	Diff from GM	
Please specify method used	12.290	1.824	-0.34	12.293	1.828	-0.18	2/2
Cu Reduction Method	13.111	1.042	0.48	12.948	0.891	0.47	8/8
HPLC	12.705	0.000	0.08	12.820	0.000	0.34	1/1
Segmented Flow	13.025	1.237	0.40	12.675	1.167	0.20	2/2
FTIR	12.504	0.765	-0.12	12.298	0.800	-0.18	11/11
Other _____	12.092	0.608	-0.54	12.036	0.454	-0.44	5/5



Analysis 908
Residual Sugar

Fall 2021





ASEV-CTS Wine Industry Interlaboratory Testing Program

Report #069

Analysis 909

Fall 2021

L-Malic Acid

WebCode	Data Flag	Sample SA37			Sample SA38		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2NWE67		2.995	-0.051	-0.29	3.000	-0.076	-0.41
3GVJLX		3.023	-0.023	-0.13	3.107	0.031	0.17
3JLT8F	X	1.845	-1.201	-6.86	1.885	-1.191	-6.48
3VV4JN		2.755	-0.291	-1.66	2.750	-0.326	-1.77
3Z6G2M		2.915	-0.131	-0.75	2.930	-0.146	-0.79
49GUJJ		2.942	-0.104	-0.59	2.901	-0.175	-0.95
676EPH		3.258	0.212	1.21	3.296	0.220	1.20
6EXTPH	X	1.570	-1.476	-8.43	1.585	-1.491	-8.11
6H4LWH		2.800	-0.246	-1.40	2.840	-0.236	-1.28
6N8PMF		2.790	-0.256	-1.46	2.890	-0.186	-1.01
6TFHJ	X	3.075	0.029	0.17	3.305	0.229	1.25
7993VE	*	2.865	-0.181	-1.03	2.775	-0.301	-1.64
7N3Z73		3.304	0.258	1.47	3.367	0.291	1.58
7VJVMW		3.045	-0.001	0.00	3.105	0.029	0.16
7XB2JA	X	4.445	1.399	8.00	4.295	1.219	6.64
7ZBZDF		2.950	-0.096	-0.55	3.030	-0.046	-0.25
84CXFF		2.910	-0.136	-0.77	2.955	-0.121	-0.66
87HQGL		3.102	0.056	0.32	3.108	0.032	0.18
8CMM4T	*	3.498	0.452	2.58	3.495	0.419	2.28
8J7RYE		2.900	-0.146	-0.83	2.900	-0.176	-0.96
8WANB9	X	2.440	-0.606	-3.46	2.905	-0.171	-0.93
9VCVQ9		3.263	0.217	1.24	3.316	0.240	1.31
A82NMF		2.770	-0.276	-1.57	2.790	-0.286	-1.55
AHMQ8V		3.320	0.274	1.57	3.305	0.229	1.25
BQUCJC		3.000	-0.046	-0.26	3.020	-0.056	-0.30
BTYCRG		2.925	-0.121	-0.69	3.015	-0.061	-0.33
D4ANYV		2.990	-0.056	-0.32	3.065	-0.011	-0.06
DDFYH2		3.130	0.084	0.48	3.220	0.144	0.79
DDKQKW	X	3.368	0.322	1.84	3.250	0.174	0.95
DQMGZ9		3.205	0.159	0.91	3.215	0.139	0.76
DR3J8G		2.900	-0.146	-0.83	2.900	-0.176	-0.96
DUJ3RC		3.000	-0.046	-0.26	3.010	-0.066	-0.36
E3UPF7	X	3.238	0.192	1.10	2.899	-0.177	-0.96
EC4LD6		3.125	0.079	0.45	3.095	0.019	0.11
EKT8J3		3.180	0.134	0.77	3.210	0.134	0.73



ASEV-CTS Wine Industry Interlaboratory Testing Program

Report #069

Analysis 909

Fall 2021

L-Malic Acid

WebCode	Data Flag	Sample SA37			Sample SA38		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
F836PU		3.008	-0.038	-0.22	3.072	-0.004	-0.02
FB4B7L		3.081	0.035	0.20	3.085	0.009	0.05
FNU84D		3.080	0.034	0.20	3.140	0.064	0.35
FXGT23		3.235	0.189	1.08	3.285	0.209	1.14
GELXBD		3.403	0.357	2.04	3.478	0.402	2.19
GFCLM2		2.895	-0.151	-0.86	2.955	-0.121	-0.66
GJRQ7A		2.930	-0.116	-0.66	3.000	-0.076	-0.41
H34U67		2.810	-0.236	-1.35	2.800	-0.276	-1.50
HF7T76		3.290	0.244	1.40	3.290	0.214	1.17
HWYWXM	X	3.335	0.289	1.65	3.220	0.144	0.79
JG32Y2	X	3.548	0.502	2.87	3.501	0.425	2.31
KKVKD6		3.100	0.054	0.31	3.060	-0.016	-0.09
LW2KFB		3.045	-0.001	-0.01	3.107	0.031	0.17
M4XAJX		2.890	-0.155	-0.89	2.889	-0.186	-1.01
M82BWW		3.000	-0.046	-0.26	3.075	-0.001	0.00
MJT2GZ		3.060	0.014	0.08	3.080	0.004	0.02
MUR8H8		3.220	0.174	1.00	3.255	0.179	0.98
MXBPQY	*	3.505	0.459	2.62	3.610	0.534	2.91
N4FHAD		3.030	-0.016	-0.09	3.010	-0.066	-0.36
NCTYTU		3.365	0.319	1.83	3.425	0.349	1.90
NLYGB6		3.231	0.185	1.06	3.241	0.165	0.90
PKY4HP		2.980	-0.066	-0.37	2.990	-0.086	-0.47
PQ4Z3P	X	3.050	0.004	0.03	2.850	-0.226	-1.23
PRZH4Q		3.060	0.014	0.08	3.080	0.004	0.02
Q7BFLW	X	3.795	0.749	4.28	3.870	0.794	4.32
QZP26X	X	2.340	-0.706	-4.03	2.210	-0.866	-4.71
RKAMFR		2.960	-0.086	-0.49	3.020	-0.056	-0.30
RWZ7HG		3.140	0.094	0.54	3.075	-0.001	0.00
TMUNHX		2.925	-0.121	-0.69	2.965	-0.111	-0.60
U68UMM		3.180	0.134	0.77	3.205	0.129	0.70
U987HM		3.048	0.002	0.01	3.075	-0.001	0.00
UAMZ7U		2.970	-0.076	-0.43	2.995	-0.081	-0.44
UMPLB6	*	2.600	-0.446	-2.55	2.600	-0.476	-2.59
UVJ4ZU		3.100	0.054	0.31	3.145	0.069	0.38
V4C7TB		2.825	-0.221	-1.26	2.885	-0.191	-1.04



WebCode	Data Flag	Sample SA37			Sample SA38		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
VYKWHC		3.162	0.116	0.67	3.251	0.175	0.95
W2448K		3.150	0.104	0.60	3.150	0.074	0.40
WBADM4		3.211	0.165	0.95	3.268	0.192	1.05
WDXUYW		2.908	-0.138	-0.79	3.014	-0.062	-0.34
WZ9V8U		2.985	-0.061	-0.35	3.020	-0.056	-0.30
XZZX6G	X	2.842	-0.204	-1.17	2.998	-0.078	-0.42
Z68DZ4		3.131	0.085	0.49	3.209	0.133	0.72
Z9BB8Q		2.920	-0.126	-0.72	2.915	-0.161	-0.87
ZBD8VY		2.965	-0.081	-0.46	2.955	-0.121	-0.66
ZBXNB3		2.840	-0.206	-1.17	2.890	-0.186	-1.01
ZKN9FZ		2.903	-0.143	-0.82	2.958	-0.118	-0.64
ZR7CCN		3.220	0.174	1.00	3.250	0.174	0.95
ZWURMU		3.040	-0.006	-0.03	3.030	-0.046	-0.25
ZY723L		3.025	-0.021	-0.12	3.065	-0.011	-0.06
ZZVXHM		3.000	-0.046	-0.26	2.975	-0.101	-0.55

Grand Means		Summary Statistics	
	3.0456 g/L		3.0757 g/L
Std Dev Btwn Labs			0.1838 g/L
	0.1750 g/L	Statistics based on 72 of 85 reporting participants	

Wines tested: SA37: Chardonnay; SA38: Chardonnay



Comments on Assigned Data Flags for Test #909

DDKQKW (X) - Inconsistent in testing between samples.

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

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

QZP26X (X) - Data for both samples are low. Possible Systematic Error.

JG32Y2 (X) - Inconsistent in testing between samples, data for sample SA37 are high.

E3UPF7 (X) - Inconsistent in testing between samples.

6EXTPH (X) - Data for both samples are low.

3JLT8F (X) - Data for both samples are low. Possible Systematic Error.

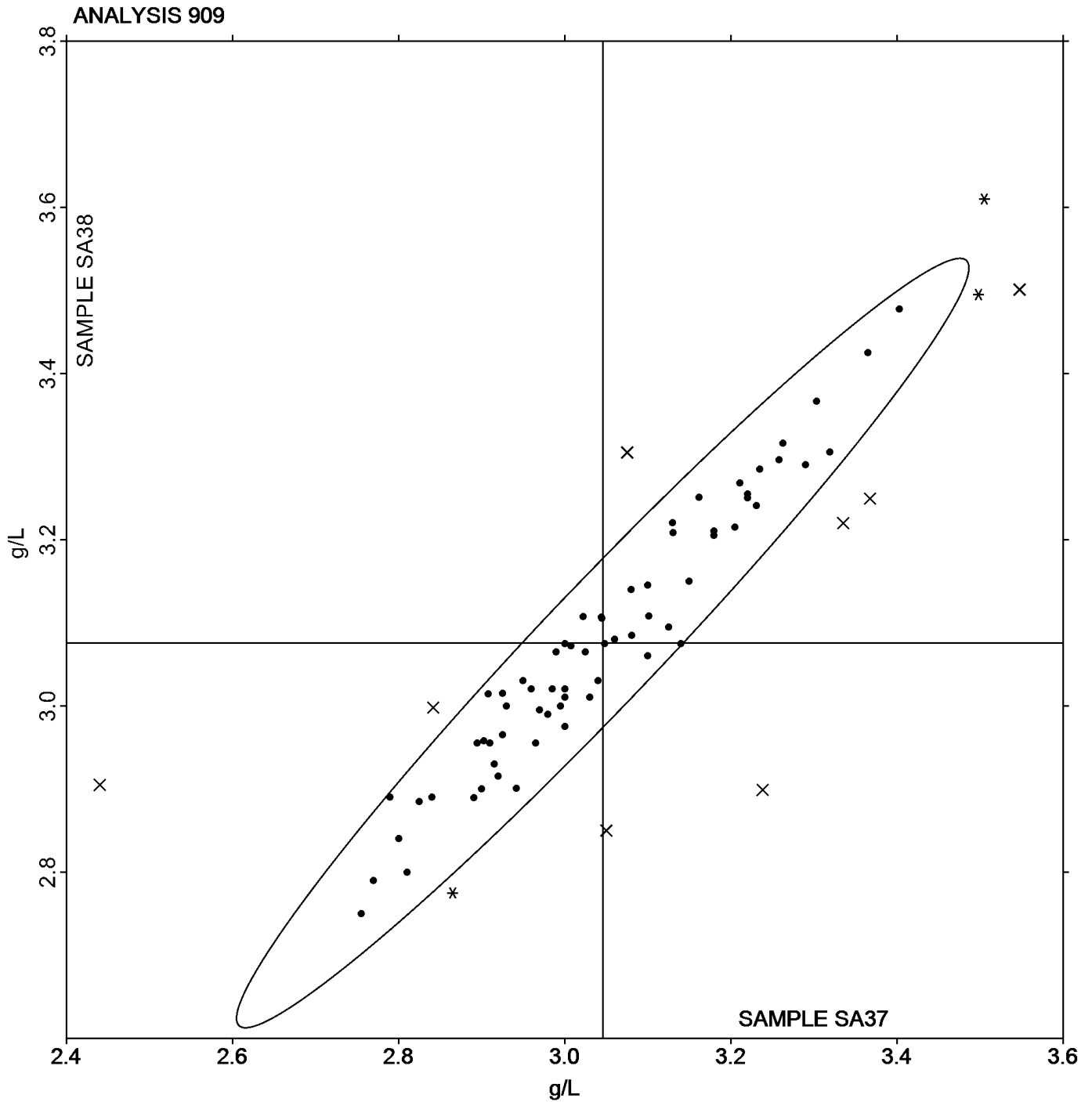
8WANB9 (X) - Inconsistent in testing between samples, data for sample SA37 are low.

PQ4Z3P (X) - Inconsistent in testing between samples.

7XB2JA (X) - Data for both samples are high.

XZZX6G (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample SA37.

Q7BFLW (X) - Data for both samples are high. Possible Systematic Error.





Glucose + Fructose

WebCode	Data Flag	Sample SA37			Sample SA38		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
3GVJLX		13.03	0.72	1.05	12.41	0.20	0.32
3JLT8F		12.75	0.44	0.64	12.65	0.44	0.72
3VV4JN		11.50	-0.81	-1.19	11.77	-0.44	-0.71
3Z6G2M		13.10	0.79	1.15	13.05	0.84	1.37
49GUJJ		11.20	-1.11	-1.62	11.02	-1.19	-1.92
4F2V43		12.75	0.44	0.64	12.43	0.22	0.36
676EPH		12.50	0.19	0.28	12.30	0.09	0.15
6EXTPH		12.18	-0.13	-0.19	12.24	0.03	0.06
6H4LWH		11.75	-0.56	-0.82	11.80	-0.41	-0.66
6N8PMF		12.29	-0.02	-0.03	12.13	-0.08	-0.12
6TFHNJ		11.25	-1.06	-1.55	11.15	-1.06	-1.71
7993VE	*	11.85	-0.46	-0.67	12.45	0.24	0.40
7ETR3M		11.80	-0.51	-0.74	11.60	-0.61	-0.98
7N3Z73		13.00	0.69	1.01	12.65	0.44	0.72
7VJVMW		11.45	-0.86	-1.26	11.35	-0.86	-1.39
7XB2JA	*	12.06	-0.25	-0.37	12.62	0.41	0.67
7ZBZDF		11.80	-0.51	-0.74	11.40	-0.81	-1.31
84CXFF		12.83	0.52	0.76	12.41	0.20	0.32
87HQGL		12.37	0.06	0.08	12.07	-0.14	-0.23
8CMM4T		12.20	-0.11	-0.17	11.97	-0.24	-0.39
8J7RYE		12.00	-0.31	-0.45	12.35	0.14	0.24
8WANB9		12.20	-0.11	-0.16	12.00	-0.21	-0.33
9VCVQ9	*	14.35	2.04	2.98	13.89	1.68	2.73
A82NMF		12.40	0.09	0.13	12.25	0.04	0.07
AHMQ8V		12.35	0.04	0.06	12.30	0.09	0.15
BQUCJC	*	10.90	-1.41	-2.06	10.70	-1.51	-2.44
BTYCRG		12.30	-0.01	-0.01	12.05	-0.16	-0.25
DDFYH2		12.87	0.56	0.82	13.03	0.82	1.34
DDKQKW		13.50	1.19	1.74	13.30	1.09	1.78
DQMGZ9		12.20	-0.11	-0.16	12.25	0.04	0.07
DR3J8G		12.80	0.49	0.72	12.75	0.54	0.88
DUJ3RC		12.40	0.09	0.13	12.20	-0.01	-0.01
E3UPF7		12.07	-0.24	-0.35	11.95	-0.26	-0.41
EC4LD6	X	13.05	0.74	1.08	11.70	-0.51	-0.82
EKT8J3		13.33	1.02	1.49	13.17	0.96	1.56



Analysis 910

Glucose + Fructose

WebCode	Data Flag	Sample SA37			Sample SA38		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
F836PU	*	14.05	1.74	2.54	13.85	1.64	2.67
FB4B7L		12.15	-0.16	-0.23	11.90	-0.31	-0.50
FNU84D	X	9.70	-2.61	-3.81	9.60	-2.61	-4.23
FXGT23		11.70	-0.61	-0.89	11.50	-0.71	-1.14
GELXBD		13.00	0.69	1.01	12.80	0.59	0.97
GFCLM2		12.83	0.52	0.76	12.70	0.49	0.80
H34U67		12.45	0.14	0.20	12.35	0.14	0.24
HF7T76		11.92	-0.39	-0.58	11.95	-0.26	-0.42
HWYWXM		12.29	-0.02	-0.03	11.98	-0.23	-0.37
JG32Y2		12.75	0.44	0.64	12.66	0.45	0.73
KFZQHP		12.15	-0.16	-0.23	11.90	-0.31	-0.50
KKVKD6		11.46	-0.85	-1.24	11.67	-0.54	-0.88
LW2KFV		13.90	1.59	2.32	13.55	1.34	2.18
M82BWW		11.63	-0.68	-0.99	11.82	-0.39	-0.63
MJT2GZ		12.12	-0.19	-0.28	12.14	-0.07	-0.11
MUR8H8		12.70	0.39	0.56	12.49	0.28	0.45
MXBPQY		12.24	-0.07	-0.10	12.08	-0.13	-0.21
N4FHAD		12.68	0.37	0.53	12.35	0.14	0.24
NCTYTU		12.95	0.64	0.94	12.75	0.54	0.88
NLYGB6		12.54	0.23	0.34	12.41	0.20	0.33
PKY4HP		11.31	-1.00	-1.46	11.60	-0.61	-0.98
PQ4Z3P		12.00	-0.31	-0.45	12.05	-0.16	-0.25
PRZH4Q		12.20	-0.11	-0.16	12.10	-0.11	-0.17
QHTXGP	X	11.45	-0.86	-1.26	10.65	-1.56	-2.52
QZP26X		11.30	-1.01	-1.48	11.50	-0.71	-1.14
RKAMFR		12.00	-0.31	-0.45	12.00	-0.21	-0.33
RWZ7HG		11.65	-0.66	-0.96	11.25	-0.96	-1.55
TMFYJR		12.97	0.66	0.96	13.17	0.96	1.57
TMUNHX		12.65	0.34	0.50	12.50	0.29	0.48
U68UMM		11.90	-0.41	-0.60	11.60	-0.61	-0.98
U987HM		12.35	0.04	0.06	11.95	-0.26	-0.41
UAMZ7U		12.30	-0.01	-0.01	12.25	0.04	0.07
UMPLB6		12.10	-0.21	-0.31	12.20	-0.01	-0.01
UVJ4ZU		11.02	-1.29	-1.88	11.02	-1.19	-1.93
V4C7TB		11.95	-0.36	-0.53	11.80	-0.41	-0.67



WebCode	Data Flag	Sample SA37			Sample SA38		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
VYKWHC		12.75	0.44	0.64	12.45	0.24	0.40
W2448K		12.00	-0.31	-0.45	11.80	-0.41	-0.66
WBADM4		13.25	0.94	1.37	13.00	0.79	1.29
WDXUYW		11.79	-0.52	-0.76	11.93	-0.28	-0.45
WZ9V8U		12.45	0.14	0.20	12.34	0.13	0.21
XKU7C7		12.40	0.09	0.13	12.35	0.14	0.24
XZZX6G		10.77	-1.54	-2.26	11.11	-1.10	-1.78
Z68DZ4		13.00	0.69	1.01	12.75	0.54	0.88
Z9BB8Q	*	13.11	0.80	1.17	12.35	0.14	0.24
ZBD8VY		12.10	-0.21	-0.31	12.05	-0.16	-0.25
ZBXNB3		12.10	-0.21	-0.31	12.00	-0.21	-0.33
ZKN9FZ		11.35	-0.96	-1.40	11.65	-0.56	-0.90
ZR7CCN		13.02	0.71	1.04	12.71	0.50	0.81
ZWURMU		12.16	-0.15	-0.23	12.00	-0.21	-0.34
ZY723L		13.20	0.89	1.30	13.35	1.14	1.86
ZZVXHM		11.79	-0.52	-0.77	11.78	-0.43	-0.69

Grand Means		Summary Statistics	
	12.310 g/L		12.205 g/L
Std Dev Btwn Labs			
	0.685 g/L		0.616 g/L
Statistics based on 83 of 86 reporting participants			

Wines tested: SA37: Chardonnay; SA38: Chardonnay

Comments on Assigned Data Flags for Test #910

FNU84D (X) - Data for both samples are low. Possible Systematic Error.

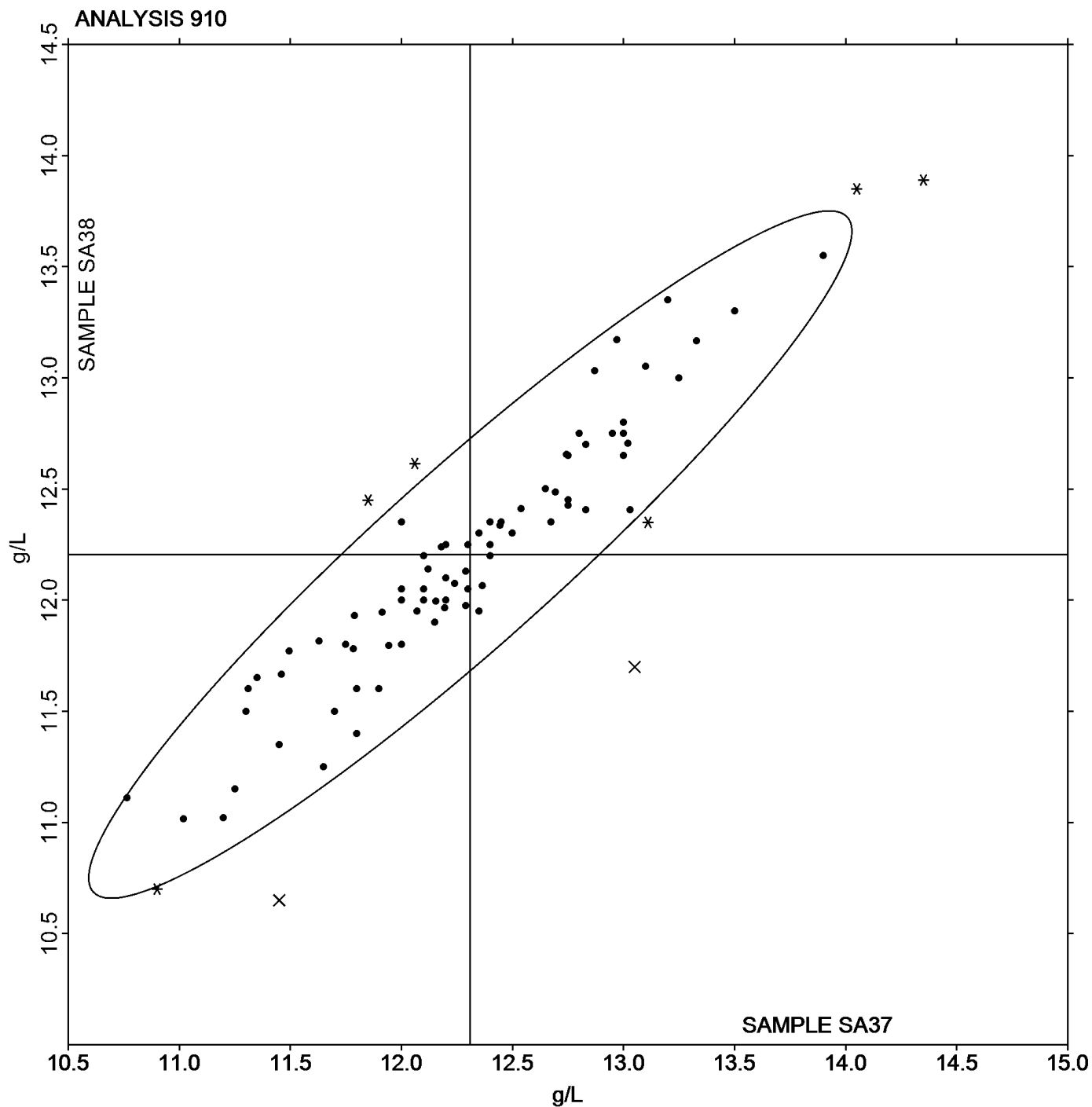
EC4LD6 (X) - Inconsistent in testing between samples.

QHTXGP (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample SA37.



Results by Methodology (as reported by laboratory)

Test Methodology	Sample SA37 <i>Chardonnay</i>			Sample SA38 <i>Chardonnay</i>			Labs Incl / Rpt
	Group Mean	Btwn Lab STD	Diff from GM	Group Mean	Btwn Lab STD	Diff from GM	
Please specify method used	12.000	0.000	-0.31	12.000	0.000	-0.21	1/1
HPLC	12.275	0.177	-0.03	12.125	0.318	-0.08	2/2
Enzymatic/Spectrophotometric	12.334	0.712	0.02	12.243	0.626	0.04	70/73
FTIR	12.178	0.588	-0.13	11.979	0.607	-0.23	10/10





Analysis 911
Copper Content

WebCode	Data Flag	Sample SA37			Sample SA38		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
3GVJLX		0.0600	-0.0443	-1.11	0.0550	-0.0368	-1.04
7N3Z73		0.1950	0.0907	2.26	0.1650	0.0732	2.07
7VJVMW		0.0983	-0.0060	-0.15	0.0976	0.0058	0.16
7XB2JA	*	0.1850	0.0807	2.01	0.1250	0.0332	0.94
7ZBZDF		0.0700	-0.0343	-0.86	0.0700	-0.0218	-0.62
8CMM4T		0.1224	0.0181	0.45	0.1032	0.0114	0.32
8J7RYE		0.0800	-0.0243	-0.61	0.0800	-0.0118	-0.34
BPZY9X		0.1060	0.0017	0.04	0.1040	0.0122	0.34
DDKQKW		0.1700	0.0657	1.64	0.1500	0.0582	1.65
DQMGZ9		0.0955	-0.0088	-0.22	0.0910	-0.0008	-0.02
EKT8J3		0.0655	-0.0388	-0.97	0.0630	-0.0288	-0.82
H34U67		0.0875	-0.0168	-0.42	0.0820	-0.0098	-0.28
HWYWXM	X	0.3650	0.2607	6.51	0.2600	0.1682	4.76
KFZQHP		0.0950	-0.0093	-0.23	0.0950	0.0032	0.09
MUR8H8		0.1300	0.0257	0.64	0.1300	0.0382	1.08
PKY4HP		0.0900	-0.0143	-0.36	0.0900	-0.0018	-0.05
RWZ7HG		0.1400	0.0357	0.89	0.1000	0.0082	0.23
U68UMM		0.0800	-0.0243	-0.61	0.0800	-0.0118	-0.34
UMPLB6	*	0.0550	-0.0493	-1.23	0.0100	-0.0818	-2.32
WBADM4		0.0615	-0.0428	-1.07	0.0340	-0.0578	-1.64
Z68DZ4		0.1000	-0.0043	-0.11	0.1000	0.0082	0.23
ZBD8VY		0.1035	-0.0008	-0.02	0.1040	0.0122	0.34
ZKN9FZ	X	0.5480	0.4437	11.07	0.9205	0.8287	23.45

Grand Means	Summary Statistics
0.10429 mg/L	0.09185 mg/L
Std Dev Btwn Labs	0.03534 mg/L
0.04007 mg/L	
Statistics based on 21 of 23 reporting participants	

Wines tested: SA37: Chardonnay; SA38: Chardonnay

Comments on Assigned Data Flags for Test #911

ZKN9FZ (X) - Data for both samples are high. Inconsistent within the determinations of sample SA37.

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



**Analysis 911
Copper Content**

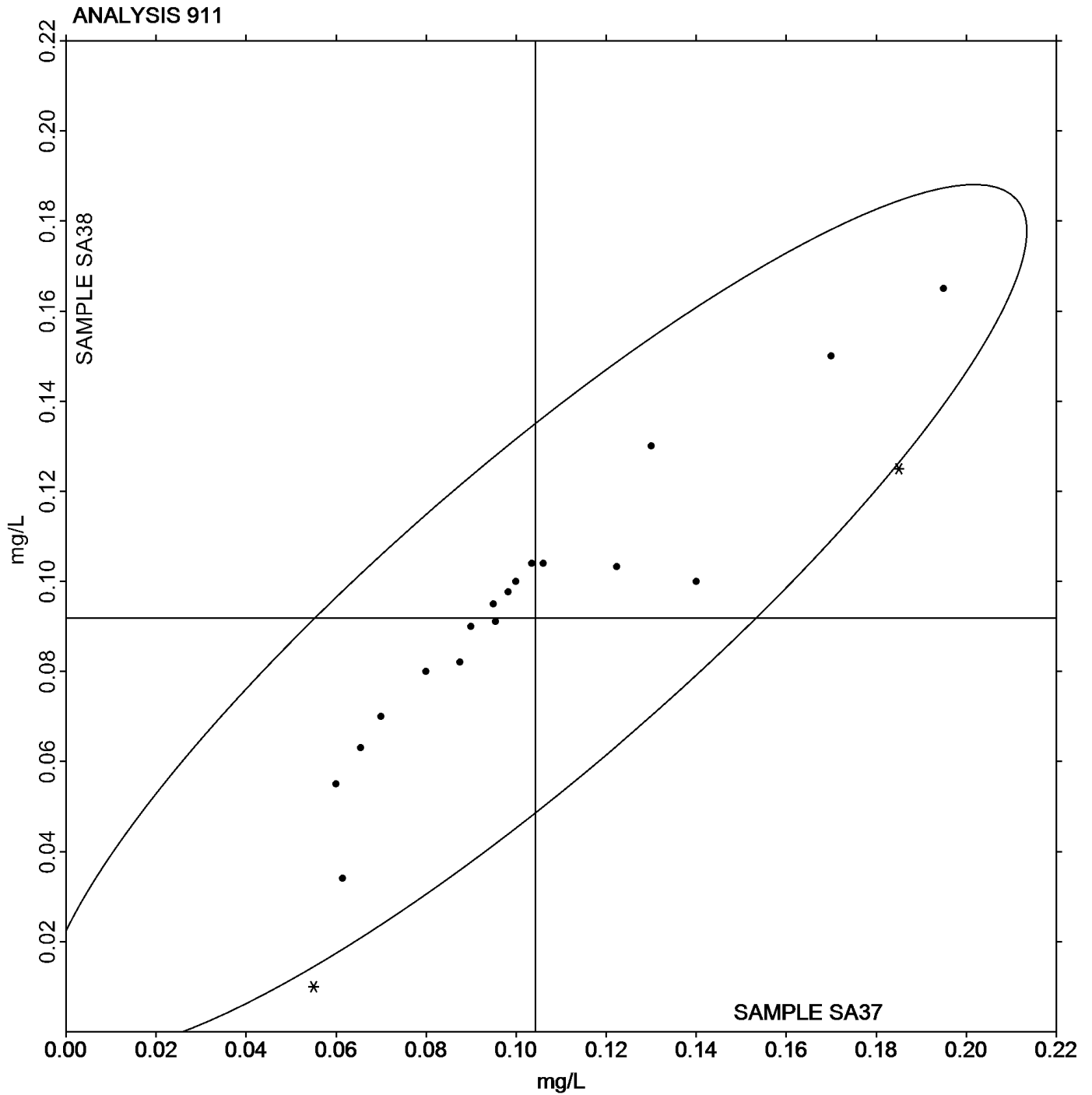
Results by Methodology (as reported by laboratory)

Test Methodology	Sample SA37 <i>Chardonnay</i>			Sample SA38 <i>Chardonnay</i>			Labs Incl / Rpt
	Group Mean	Btwn Lab STD	Diff from GM	Group Mean	Btwn Lab STD	Diff from GM	
Please specify method used	0.066	0.000	-0.0388	0.063	0.000	-0.0288	1/1
Atomic Absorption Spectroscopy	0.110	0.047	0.0057	0.098	0.041	0.0060	10/10
ICP	0.098	0.013	-0.0062	0.094	0.009	0.0023	8/9
FTIR	0.185	0.000	0.0807	0.125	0.000	0.0332	1/1
Other _____	0.055	0.000	-0.0493	0.010	0.000	-0.0818	1/2



Analysis 911
Copper Content

Fall 2021





Potassium (K) Content

WebCode	Data Flag	Sample SA37			Sample SA38		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
3GVJLX		1,037.5	-41.2	-0.38	1,082.5	-24.1	-0.13
49GUJJ		1,135.0	56.3	0.52	1,168.0	61.4	0.33
6H4LWH		1,080.0	1.3	0.01	1,095.0	-11.6	-0.06
7VJVMW		972.0	-106.7	-0.99	1,040.8	-65.9	-0.36
7ZBZDF		1,120.0	41.3	0.38	1,126.0	19.4	0.11
8CMM4T		992.6	-86.1	-0.80	1,014.0	-92.6	-0.50
8J7RYE		1,229.0	150.3	1.39	1,220.0	113.4	0.62
DQMGZ9		1,030.0	-48.7	-0.45	1,070.0	-36.6	-0.20
F836PU		1,186.5	107.8	1.00	975.5	-131.1	-0.71
H34U67		1,120.0	41.3	0.38	1,140.0	33.4	0.18
HWYWXM		1,099.4	20.6	0.19	1,107.3	0.6	0.00
KFZQHP		997.3	-81.5	-0.76	1,004.1	-102.5	-0.56
MUR8H8		1,210.4	131.7	1.22	1,321.9	215.3	1.17
Q7BFLW		890.5	-188.2	-1.75	897.4	-209.2	-1.14
RWZ7HG	*	1,267.5	188.8	1.75	1,700.5	593.9	3.22
U68UMM		1,071.0	-7.7	-0.07	1,039.0	-67.6	-0.37
Z68DZ4		1,095.0	16.3	0.15	1,070.0	-36.6	-0.20
ZKN9FZ		883.5	-195.2	-1.81	847.0	-259.6	-1.41

Grand Means		Summary Statistics	
	1,078.73 mg/L		1,106.61 mg/L
Std Dev Btwn Labs			
	107.80 mg/L		184.22 mg/L
Statistics based on 18 of 18 reporting participants			

Wines tested: SA37: Chardonnay; SA38: Chardonnay



Analysis 912

Potassium (K) Content

Results by Methodology (as reported by laboratory)

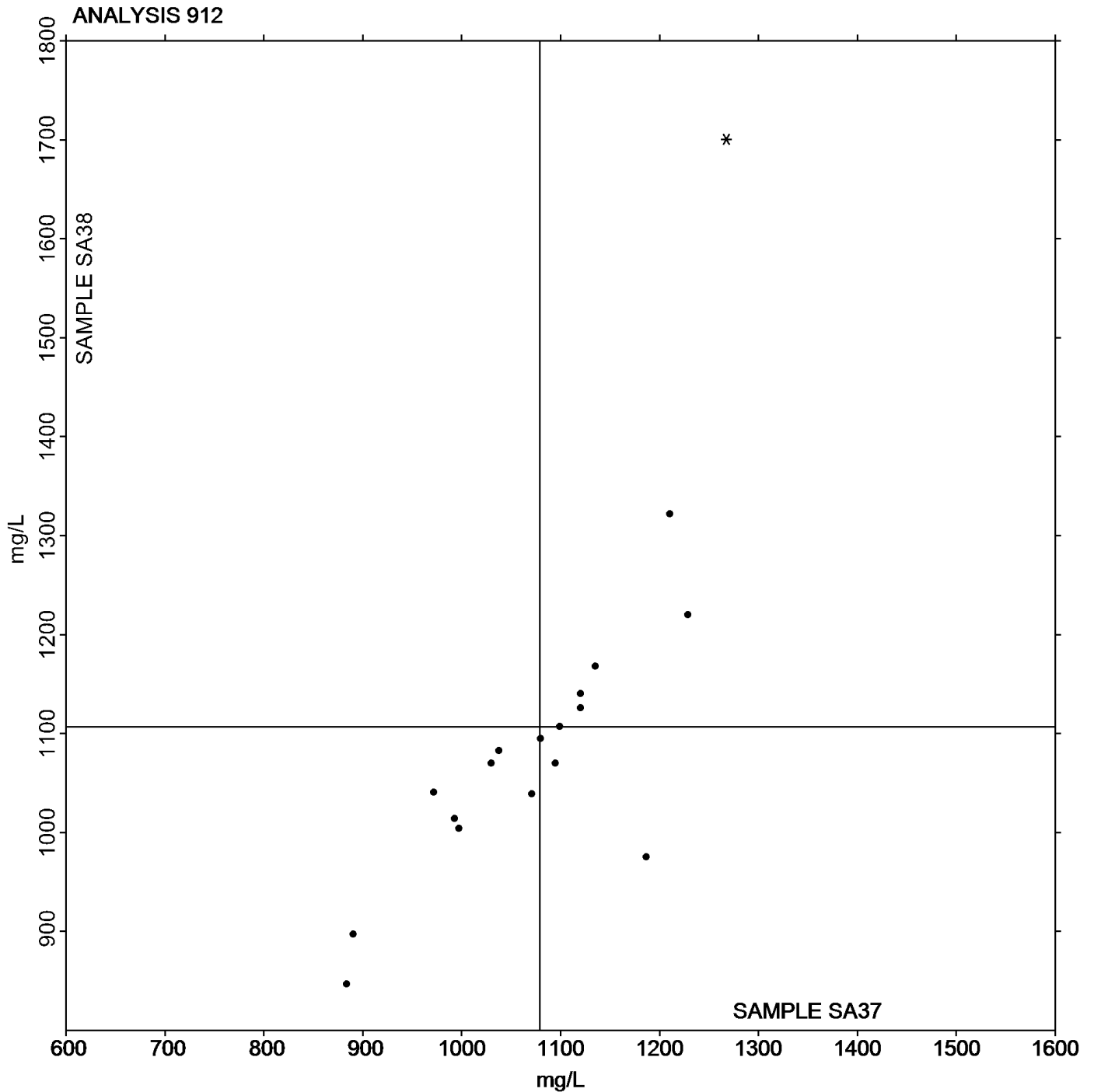
Test Methodology	Sample SA37 <i>Chardonnay</i>			Sample SA38 <i>Chardonnay</i>			Labs Incl / Rpt
	Group Mean	Btwn Lab STD	Diff from GM	Group Mean	Btwn Lab STD	Diff from GM	
Atomic Absorption Spectroscopy	1,101.991	134.233	23.3	1,201.555	282.018	94.9	6/6
ICP	1,028.480	108.862	-50.3	1,037.979	110.594	-68.6	7/7
FTIR	1,120.000	0.000	41.3	1,140.000	0.000	33.4	1/1
Other _____	1,089.683	13.693	11.0	1,101.128	8.666	-5.5	2/2
Colorimetric Analysis	1,153.250	47.023	74.5	1,050.750	106.420	-55.9	2/2



Analysis 912

Fall 2021

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 #069

Fall 2021

Analysis 915 A420nm (1cm path)

WebCode	Data Flag	Sample SA37			Sample SA38		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2NWE67		0.0720	-0.0112	-2.16	0.0780	-0.0089	-1.76
3GVJLX	X	0.0900	0.0068	1.30	0.1100	0.0231	4.56
3JLT8F		0.0870	0.0038	0.72	0.0890	0.0021	0.41
3VVTGD	X	0.1015	0.0183	3.51	0.0935	0.0066	1.30
49GUJJ		0.0905	0.0073	1.39	0.0930	0.0061	1.20
4F2V43		0.0960	0.0128	2.45	0.0980	0.0111	2.19
676EPH		0.0850	0.0018	0.34	0.0910	0.0041	0.81
6EXTPH		0.0800	-0.0032	-0.62	0.0900	0.0031	0.61
6H4LWH		0.0890	0.0058	1.11	0.0920	0.0051	1.01
6N8PMF		0.0765	-0.0068	-1.31	0.0840	-0.0030	-0.58
7N3Z73		0.0877	0.0044	0.85	0.0904	0.0035	0.69
7XB2JA		0.0860	0.0028	0.53	0.0900	0.0031	0.61
7ZBZDF		0.0901	0.0069	1.32	0.0927	0.0058	1.14
8WANB9		0.0860	0.0028	0.53	0.0870	0.0001	0.02
9VCVQ9		0.0815	-0.0017	-0.34	0.0840	-0.0029	-0.57
A82NMF	X	0.0800	-0.0032	-0.62	0.1000	0.0131	2.59
BPJAXD		0.0825	-0.0007	-0.14	0.0853	-0.0017	-0.33
BQUCJC		0.0760	-0.0072	-1.39	0.0775	-0.0094	-1.86
D4ANYV		0.0825	-0.0007	-0.14	0.0840	-0.0029	-0.57
DDFYH2		0.0860	0.0028	0.53	0.0950	0.0081	1.60
DQMGZ9		0.0805	-0.0027	-0.53	0.0835	-0.0034	-0.67
DR3J8G	X	0.0781	-0.0051	-0.99	0.0968	0.0098	1.94
EC4LD6		0.0800	-0.0032	-0.62	0.0840	-0.0029	-0.57
EKT8J3	X	0.0315	-0.0517	-9.95	0.0295	-0.0574	-11.33
F836PU		0.0880	0.0048	0.91	0.0900	0.0031	0.61
FB4B7L		0.0805	-0.0027	-0.53	0.0875	0.0006	0.12
GJRQ7A		0.0830	-0.0002	-0.05	0.0840	-0.0029	-0.57
H34U67		0.0840	0.0008	0.14	0.0865	-0.0004	-0.08
HWYWXM		0.0800	-0.0032	-0.62	0.0865	-0.0004	-0.08
J4WDYZ	*	0.0705	-0.0127	-2.45	0.0730	-0.0139	-2.74
JY2J2Y		0.0790	-0.0042	-0.82	0.0790	-0.0079	-1.56
M4XAJX		0.0805	-0.0027	-0.53	0.0816	-0.0053	-1.05
MUR8H8		0.0835	0.0003	0.05	0.0860	-0.0009	-0.18
NLYGB6		0.0835	0.0003	0.05	0.0840	-0.0029	-0.57
PKY4HP	X	0.1277	0.0445	8.55	0.8690	0.7821	154.40



**Analysis 915
A420nm (1cm path)**

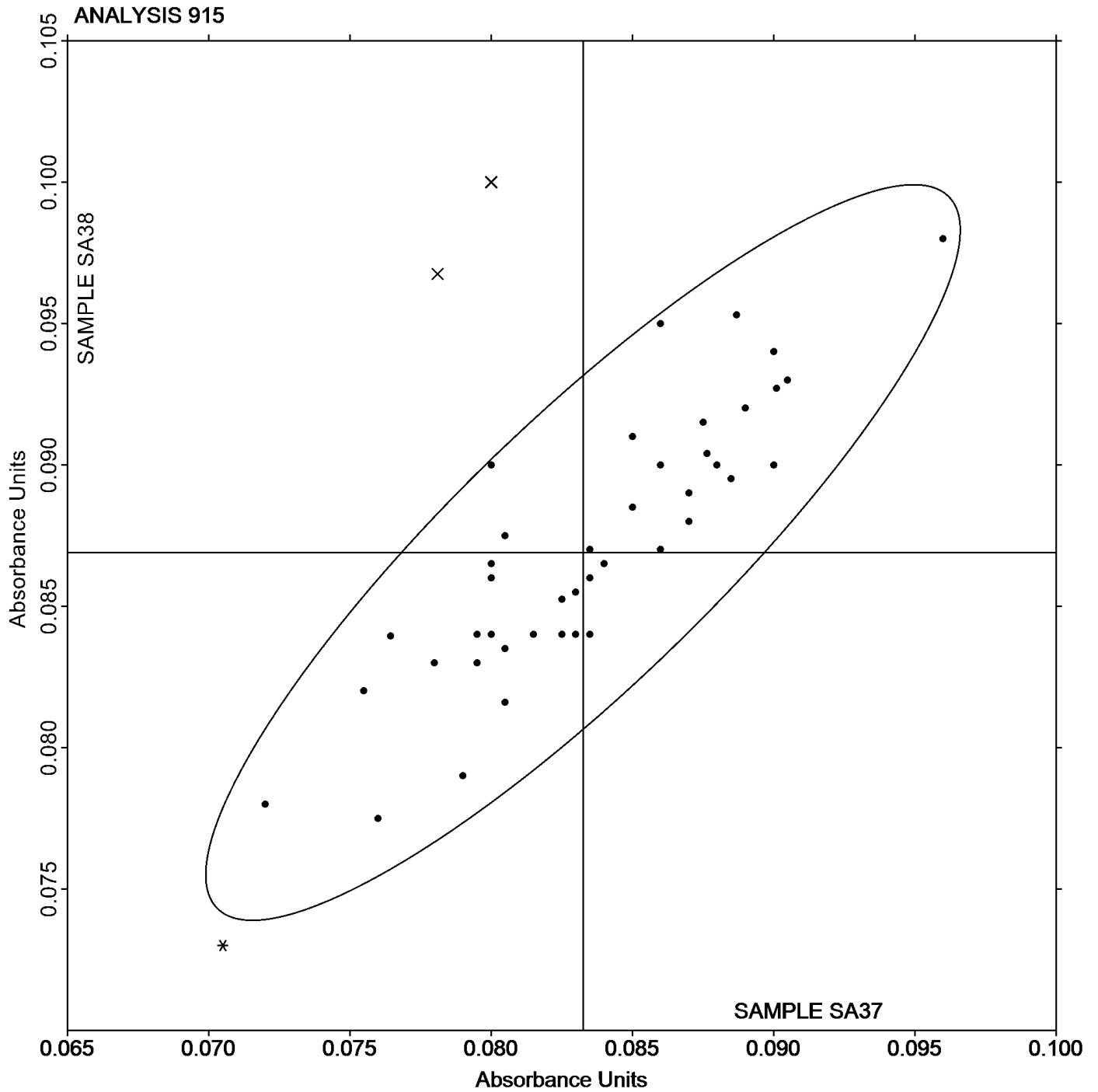
WebCode	Data Flag	Sample SA37			Sample SA38		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
PQ4Z3P		0.0885	0.0053	1.01	0.0895	0.0026	0.51
PRZH4Q	X	0.1295	0.0463	8.89	0.0850	-0.0019	-0.38
Q7BFLW	X	0.1670	0.0838	16.11	0.1510	0.0641	12.65
QHTXGP		0.0780	-0.0052	-1.01	0.0830	-0.0039	-0.77
RWZ7HG		0.0795	-0.0037	-0.72	0.0840	-0.0029	-0.57
TMFYJR		0.0875	0.0043	0.82	0.0915	0.0046	0.91
TMUNHX		0.0755	-0.0077	-1.49	0.0820	-0.0049	-0.97
U68UMM		0.0870	0.0038	0.72	0.0880	0.0011	0.22
U987HM		0.0795	-0.0037	-0.72	0.0830	-0.0039	-0.77
UMPLB6		0.0850	0.0018	0.34	0.0885	0.0016	0.32
V4C7TB		0.0900	0.0068	1.30	0.0940	0.0071	1.40
XXV8ZM		0.0800	-0.0032	-0.62	0.0860	-0.0009	-0.18
Z68DZ4		0.0835	0.0003	0.05	0.0870	0.0001	0.02
Z9BB8Q		0.0887	0.0055	1.05	0.0953	0.0084	1.66
ZBD8VY		0.0900	0.0068	1.30	0.0900	0.0031	0.61
ZY723L		0.0800	-0.0032	-0.62	0.0900	0.0031	0.61
ZZVXHM		0.0830	-0.0002	-0.05	0.0855	-0.0014	-0.28

Grand Means		Summary Statistics	
0.08325	Absorbance Units	0.08690	Absorbance Units
Std Dev Btw Labs			
0.00520	Absorbance Units	0.00507	Absorbance Units
Statistics based on 44 of 52 reporting participants			

Wines tested: SA37: Chardonnay; SA38: Chardonnay

Comments on Assigned Data Flags for Test #915

- 3GVJLX (X) - Inconsistent in testing between samples, data for sample SA38 are high.
- DR3J8G (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample SA37.
- A82NMF (X) - Inconsistent in testing between samples.
- EKT8J3 (X) - Data for both samples are low. Inconsistent within the determinations of sample SA38.
- PKY4HP (X) - Data for both samples are high. Extreme Data for Sample SA38.
- 3VVTGD (X) - Inconsistent in testing between samples, data for sample SA37 are high.
- PRZH4Q (X) - Inconsistent in testing between samples, data for sample SA37 are high.
- Q7BFLW (X) - Data for both samples are high.



**ASEV-CTS Wine Industry Interlaboratory Testing Program****Report #069****Analysis 916****Fall 2021****A520nm (1cm path)**

WebCode	Data Flag	Sample SA37			Sample SA38		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2NWE67		0.0105	-0.0062	-1.66	0.0140	-0.0037	-0.75
3GVJLX	*	0.0210	0.0043	1.14	0.0305	0.0128	2.61
3JLT8F		0.0180	0.0013	0.34	0.0170	-0.0007	-0.14
3VVTGD	X	0.0270	0.0103	2.74	0.0190	0.0013	0.27
49GUJJ		0.0175	0.0008	0.20	0.0170	-0.0007	-0.14
4F2V43		0.0190	0.0023	0.60	0.0190	0.0013	0.27
676EPH		0.0180	0.0013	0.34	0.0185	0.0008	0.17
6EXTPH		0.0200	0.0033	0.87	0.0200	0.0023	0.47
6H4LWH		0.0175	0.0008	0.20	0.0180	0.0003	0.07
6N8PMF		0.0145	-0.0022	-0.60	0.0192	0.0015	0.31
7N3Z73		0.0157	-0.0010	-0.28	0.0164	-0.0013	-0.27
7XB2JA		0.0180	0.0013	0.34	0.0180	0.0003	0.07
7ZBZDF		0.0184	0.0017	0.44	0.0188	0.0011	0.23
8WANB9		0.0180	0.0013	0.34	0.0180	0.0003	0.07
9VCVQ9		0.0150	-0.0017	-0.46	0.0150	-0.0027	-0.54
A82NMF	*	0.0200	0.0033	0.87	0.0300	0.0123	2.51
BQUCJC		0.0120	-0.0047	-1.26	0.0100	-0.0077	-1.56
D4ANYV		0.0140	-0.0027	-0.73	0.0130	-0.0047	-0.95
DDFYH2		0.0190	0.0023	0.60	0.0200	0.0023	0.47
DQMGZ9		0.0140	-0.0027	-0.73	0.0150	-0.0027	-0.54
DR3J8G		0.0202	0.0034	0.91	0.0255	0.0078	1.59
EC4LD6		0.0140	-0.0027	-0.73	0.0145	-0.0032	-0.64
EKT8J3		0.0230	0.0063	1.67	0.0290	0.0113	2.31
F836PU		0.0200	0.0033	0.87	0.0190	0.0013	0.27
FB4B7L		0.0160	-0.0007	-0.20	0.0180	0.0003	0.07
GJRQ7A		0.0150	-0.0017	-0.46	0.0140	-0.0037	-0.75
H34U67		0.0150	-0.0017	-0.46	0.0175	-0.0002	-0.03
HWYWXM		0.0165	-0.0002	-0.06	0.0165	-0.0012	-0.24
J4WDYZ	*	0.0065	-0.0102	-2.73	0.0080	-0.0097	-1.97
JY2J2Y		0.0180	0.0013	0.34	0.0180	0.0003	0.07
M4XAJX		0.0136	-0.0031	-0.84	0.0131	-0.0046	-0.93
MUR8H8		0.0175	0.0008	0.20	0.0180	0.0003	0.07
NLYGB6		0.0175	0.0008	0.20	0.0165	-0.0012	-0.24
PKY4HP	*	0.0263	0.0096	2.55	0.0317	0.0140	2.86
PQ4Z3P		0.0210	0.0043	1.14	0.0195	0.0018	0.37



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

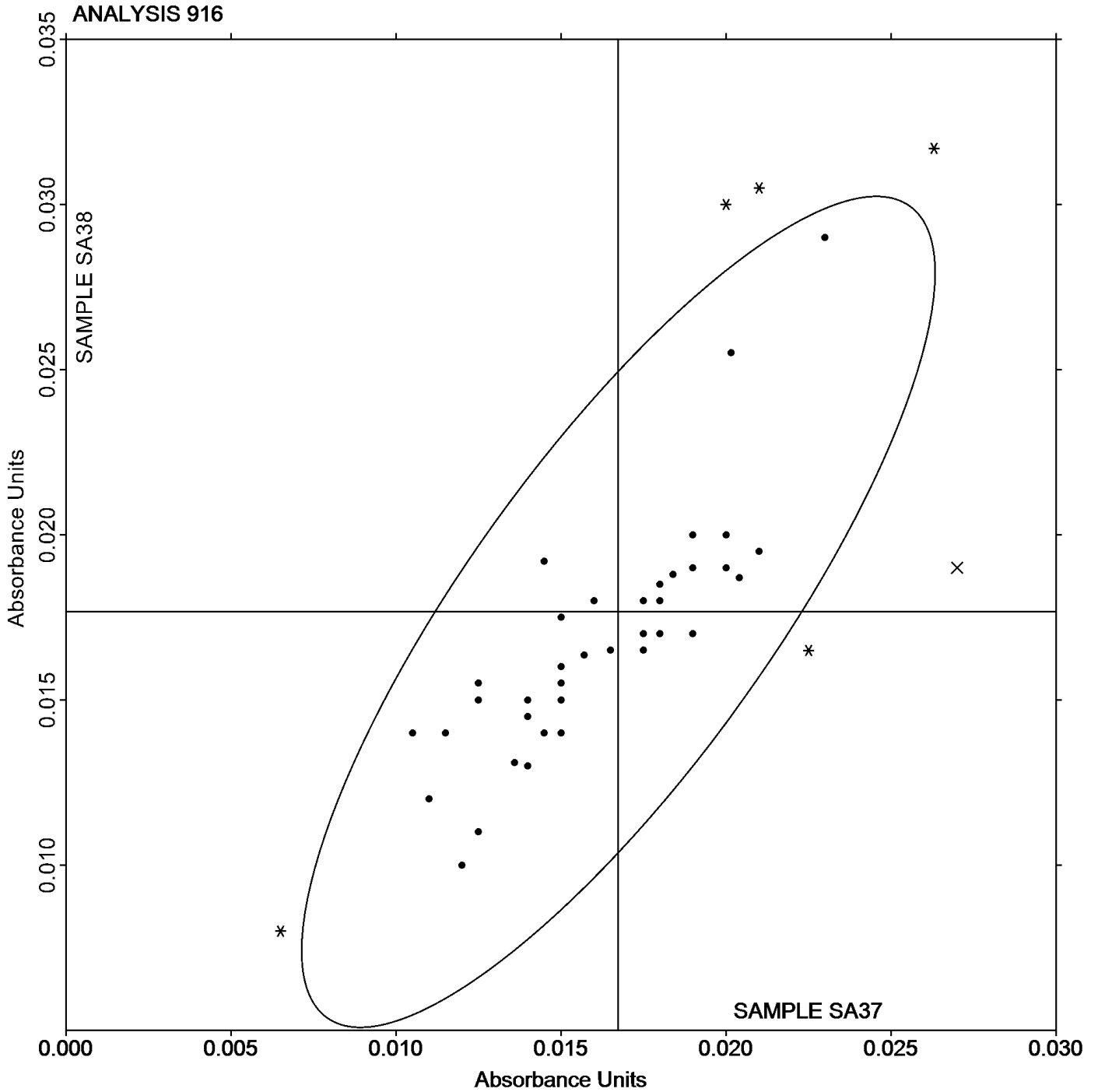
WebCode	Data Flag	Sample SA37			Sample SA38		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
PRZH4Q	X	0.0340	0.0173	4.61	0.0145	-0.0032	-0.64
Q7BFLW	X	0.0710	0.0543	14.48	0.0650	0.0473	9.63
QHTXGP		0.0125	-0.0042	-1.13	0.0110	-0.0067	-1.36
RWZ7HG		0.0145	-0.0022	-0.60	0.0140	-0.0037	-0.75
TMFYJR	*	0.0225	0.0058	1.54	0.0165	-0.0012	-0.24
TMUNHX		0.0125	-0.0042	-1.13	0.0150	-0.0027	-0.54
U68UMM		0.0190	0.0023	0.60	0.0170	-0.0007	-0.14
U987HM		0.0115	-0.0052	-1.40	0.0140	-0.0037	-0.75
UMPLB6		0.0125	-0.0042	-1.13	0.0155	-0.0022	-0.44
V4C7TB	X	0.0990	0.0823	21.95	0.0995	0.0818	16.65
XXV8ZM		0.0110	-0.0057	-1.53	0.0120	-0.0057	-1.15
Z68DZ4		0.0150	-0.0017	-0.46	0.0155	-0.0022	-0.44
Z9BB8Q		0.0204	0.0037	0.98	0.0187	0.0010	0.21
ZBD8VY		0.0200	0.0033	0.87	0.0190	0.0013	0.27
ZY723L		0.0200	0.0033	0.87	0.0200	0.0023	0.47
ZZVXHM		0.0150	-0.0017	-0.46	0.0160	-0.0017	-0.34

Grand Means		Summary Statistics	
0.01674	Absorbance Units	0.01767	Absorbance Units
Stnd Dev Btwn Labs			
0.00375	Absorbance Units	0.00491	Absorbance Units
Statistics based on 47 of 51 reporting participants			

Wines tested: SA37: Chardonnay; SA38: Chardonnay

Comments on Assigned Data Flags for Test #916

- V4C7TB (X) - Data for both samples are high. Inconsistent within the determinations of both samples.
- 3VTGD (X) - Data for sample SA37 are high.
- PRZH4Q (X) - Data for sample SA37 are high.
- Q7BFLW (X) - Data for both samples are high.





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

Report #069
Fall 2021

WebCode	Data Flag	Sample SA37			Sample SA38		
		Lab Mean	Diff from Target Value	% Diff from Target Value	Lab Mean	Diff from Target Value	% Diff from Target Value
3GVJLX		0.3350	-0.0265	-0.91	0.3400	-0.0231	-0.73
6EXTPH		0.3450	-0.0165	-0.56	0.3400	-0.0231	-0.73
7VJVMW		0.3750	0.0135	0.46	0.3700	0.0069	0.22
7XB2JA	X	0.9100	0.5485	18.76	0.8650	0.5019	15.87
7ZBZDF		0.3200	-0.0415	-1.42	0.3200	-0.0431	-1.36
8CMM4T		0.3620	0.0005	0.02	0.3655	0.0024	0.08
DDFYH2		0.3190	-0.0425	-1.45	0.3200	-0.0431	-1.36
DQMGZ9		0.3500	-0.0115	-0.39	0.3550	-0.0081	-0.26
EC4LD6		0.4000	0.0385	1.32	0.4000	0.0369	1.17
EKT8J3	X	4.9555	4.5940	157.16	4.9730	4.6099	145.76
HWYWXM		0.3690	0.0075	0.26	0.3730	0.0099	0.31
M82BWW		0.3455	-0.0160	-0.55	0.3370	-0.0261	-0.83
MUR8H8		0.3460	-0.0155	-0.53	0.3510	-0.0121	-0.38
PKY4HP		0.3800	0.0185	0.63	0.3870	0.0239	0.75
PRZH4Q	X	2.0000	1.6385	56.05	2.0200	1.6569	52.39
Q7BFLW		0.4200	0.0585	2.00	0.4350	0.0719	2.27
U68UMM		0.4000	0.0385	1.32	0.4000	0.0369	1.17
Z68DZ4		0.3775	0.0160	0.55	0.3765	0.0134	0.42
ZBD8VY		0.3400	-0.0215	-0.74	0.3400	-0.0231	-0.73

Research Property Consensus Value

Consensus Average

0.36150 g/L

0.36313 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 16 reporting participants.

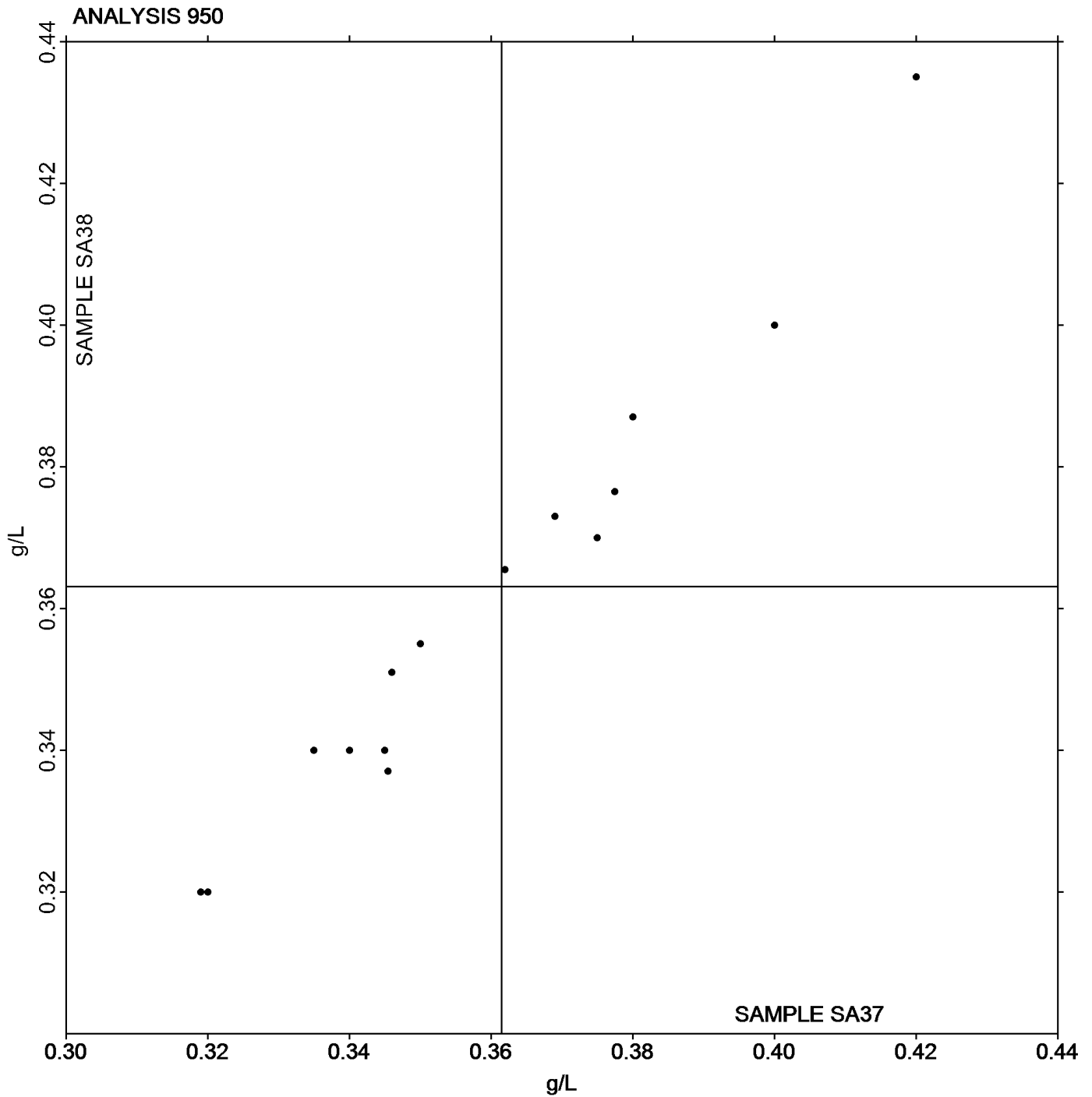
Wines tested: SA37: Chardonnay; SA38: Chardonnay

Comments on Assigned Data Flags for Test #950

EKT8J3 (X) - Extreme data.

PRZH4Q (X) - Extreme data.

7XB2JA (X) - Data for both samples are high. Inconsistent within the determinations of both samples.



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 #069
Fall 2021

WebCode	Data Flag	Sample SA37			Sample SA38		
		Lab Mean	Diff from Target Value	% Diff from Target Value	Lab Mean	Diff from Target Value	% Diff from Target Value
3GVJLX		1.600	0.186	0.88	1.650	0.254	1.06
7VJVMW		1.509	0.094	0.45	1.523	0.127	0.53
7XB2JA		1.385	-0.029	-0.14	1.230	-0.166	-0.70
7ZBZDF		1.000	-0.415	-1.98	1.000	-0.396	-1.66
8CMM4T		1.456	0.041	0.20	1.426	0.030	0.13
8J7RYE		1.420	0.006	0.03	1.425	0.029	0.12
BPZY9X		1.989	0.574	2.74	2.028	0.631	2.64
DQMGZ9		1.310	-0.104	-0.50	1.420	0.024	0.10
FB4B7L	*	1.450	0.036	0.17	1.100	-0.296	-1.24
H34U67		1.315	-0.099	-0.47	1.365	-0.031	-0.13
HWYWXM		1.300	-0.114	-0.55	1.295	-0.101	-0.42
KFZQHP		1.340	-0.074	-0.36	1.340	-0.056	-0.24
Q7BFLW		1.275	-0.139	-0.67	1.261	-0.136	-0.57
Z68DZ4		1.495	0.081	0.38	1.505	0.109	0.46
ZKN9FZ		1.375	-0.039	-0.19	1.375	-0.021	-0.09

Research Property Consensus Value

Consensus Average

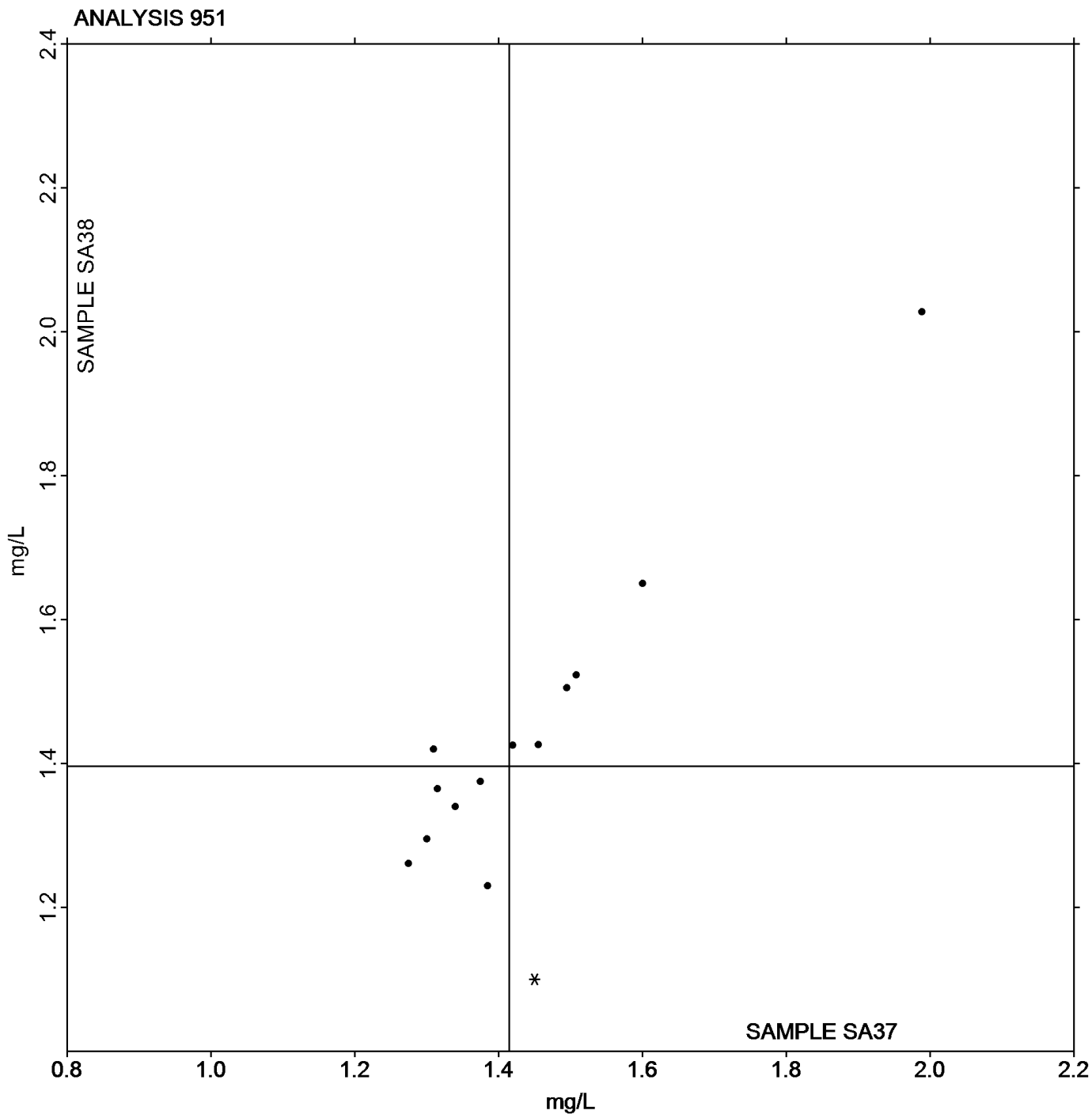
1.4145 mg/L

1.3961 mg/L

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

This consensus average is based on 15 reporting participants.

Wines tested: SA37: Chardonnay; SA38: Chardonnay



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



Research Property: Methanol Content

WebCode	Data Flag	Sample SA37			Sample SA38		
		Lab Mean	Diff from Target Value	% Diff from Target Value	Lab Mean	Diff from Target Value	% Diff from Target Value
7VJVMW		56.50	-1.67	-0.29	58.00	-0.77	-0.12
7ZBZDF		72.00	13.83	2.42	74.00	15.24	2.39
8J7RYE		62.50	4.33	0.76	63.00	4.24	0.66
BPZY9X		57.00	-1.17	-0.21	58.00	-0.77	-0.12
DQMGZ9		57.50	-0.67	-0.12	59.00	0.23	0.04
KFZQHP		51.00	-7.17	-1.26	55.00	-3.77	-0.59
PKY4HP		56.00	-2.17	-0.38	57.00	-1.77	-0.28
Q7BFLW		58.00	-0.17	-0.03	50.50	-8.27	-1.30
RWZ7HG		53.50	-4.67	-0.82	53.50	-5.27	-0.83
Z68DZ4		57.75	-0.42	-0.07	59.65	0.89	0.14

Research Property Consensus Value

Consensus Average

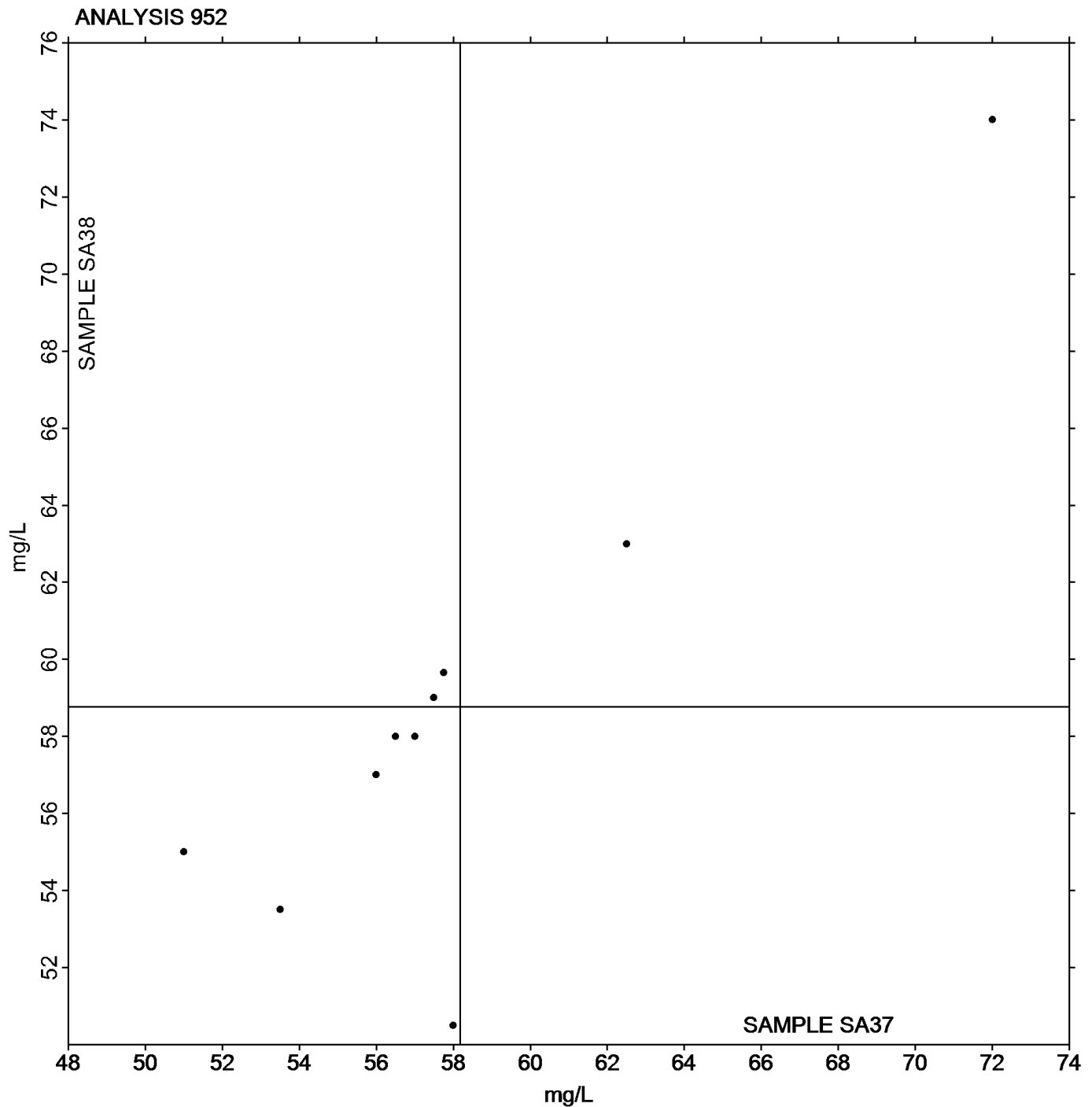
58.175 mg/L

58.765 mg/L

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

This consensus average is based on 10 reporting participants.

Wines tested: SA37: Chardonnay; SA38: Chardonnay



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-