



## Wine Industry Interlaboratory Program

### Summary Report #076 - Spring 2024

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## **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.

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## Key for Web Summary Report (Page 1 of 2)

<b>WebCode</b>	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.
<b>Lab Mean</b>	The average of the test results obtained by the participant.
<b>Grand Mean</b>	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.
<b>Difference from Grand Mean</b>	The difference of the LAB MEAN from the GRAND MEAN.
<b>Between-Lab Standard Deviation</b>	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).
<b>Comparative Performance Value</b>	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.
<b>Data Flag</b>	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	<b>CAUTION</b> - 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	<b>STOP</b> - 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	<b>PROCEED</b> - 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.

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### 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.

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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 #076

Spring 2024

## Analysis 901 Ethanol (% of volume)

WebCode	Data Flag	Sample SA51			Sample SA52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
23888P		8.955	0.032	0.60	8.925	0.035	0.62
23QVPJ		8.986	0.063	1.16	8.917	0.026	0.47
2DPNYV		8.935	0.012	0.22	8.885	-0.005	-0.10
2MZQKW		8.900	-0.023	-0.42	8.810	-0.080	-1.43
2UXHTQ		8.920	-0.003	-0.05	8.880	-0.010	-0.19
2XXQXZ		8.945	0.022	0.41	8.890	0.000	-0.01
3BZJ3H		8.920	-0.003	-0.05	8.850	-0.040	-0.72
3VLET4		8.925	0.002	0.04	8.875	-0.015	-0.28
44V373		8.990	0.067	1.24	8.950	0.060	1.06
4D28UD		8.900	-0.023	-0.42	8.870	-0.020	-0.36
4ET4J8	X	8.700	-0.223	-4.13	8.600	-0.290	-5.18
4HV2UY		8.960	0.037	0.69	8.920	0.030	0.53
4ULXUC		9.025	0.102	1.89	8.975	0.085	1.51
62Y7VD		8.935	0.012	0.22	8.900	0.010	0.17
648EZR	X	8.800	-0.123	-2.28	8.900	0.010	0.17
6LR6YR		8.900	-0.023	-0.42	8.875	-0.015	-0.28
6P9DMQ		8.875	-0.048	-0.89	8.840	-0.050	-0.90
6ZQUFX	X	8.940	0.017	0.32	8.995	0.105	1.86
789M43		8.940	0.017	0.32	8.910	0.020	0.35
7K9LRY		8.990	0.067	1.24	8.950	0.060	1.06
7N8YD4		8.925	0.002	0.04	8.885	-0.005	-0.10
7TM823		8.780	-0.143	-2.65	8.745	-0.145	-2.59
86EFYV		8.890	-0.033	-0.61	8.860	-0.030	-0.54
8E44WJ		8.880	-0.043	-0.79	8.840	-0.050	-0.90
8FWWR3		8.905	-0.018	-0.33	8.880	-0.010	-0.19
96UYJT		8.890	-0.033	-0.61	8.895	0.005	0.08
9EY7YT		8.890	-0.033	-0.61	8.860	-0.030	-0.54
9HXHUT		8.800	-0.123	-2.28	8.750	-0.140	-2.50
9MREJJ		8.850	-0.073	-1.35	8.830	-0.060	-1.08
9ZDQVT		8.975	0.052	0.97	8.960	0.070	1.24
A4V9QJ		8.910	-0.013	-0.24	8.870	-0.020	-0.36
A8VJJX	X	9.340	0.417	7.73	9.320	0.430	7.65
AC88KU		8.920	-0.003	-0.05	8.890	0.000	-0.01
AN3G6H	*	8.935	0.012	0.22	8.835	-0.055	-0.99
ATB4GY		8.940	0.017	0.32	8.905	0.015	0.26



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WebCode	Data Flag	Sample SA51			Sample SA52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
BLRXJR		8.940	0.017	0.32	8.900	0.010	0.17
BP6XGJ		8.790	-0.133	-2.46	8.760	-0.130	-2.32
BWN4DQ		9.020	0.097	1.80	8.965	0.075	1.33
BYFZ3K		8.890	-0.033	-0.61	8.860	-0.030	-0.54
CABTNF		8.800	-0.123	-2.28	8.800	-0.090	-1.61
CENB6X		9.015	0.092	1.71	8.975	0.085	1.51
CFFAJV		8.900	-0.023	-0.42	8.900	0.010	0.17
CND3RP		8.920	-0.003	-0.05	8.890	0.000	-0.01
DBJ64W	X	8.925	0.002	0.04	9.400	0.510	9.08
DN936U		8.980	0.057	1.06	8.950	0.060	1.06
DYT94J	X	6.375	-2.548	-47.19	6.535	-2.355	-41.97
EJVJMD		8.900	-0.023	-0.42	8.860	-0.030	-0.54
EUPXKN		8.900	-0.023	-0.42	8.900	0.010	0.17
FQAPWP		8.855	-0.068	-1.26	8.860	-0.030	-0.54
FQNB9C	*	8.915	-0.008	-0.15	8.810	-0.080	-1.43
G8R6FC		9.040	0.117	2.17	9.010	0.120	2.13
GLCM9F	X	8.800	-0.123	-2.28	8.500	-0.390	-6.96
GLR7TD	X	8.840	-0.083	-1.53	8.925	0.035	0.62
GNXA23		8.865	-0.058	-1.07	8.835	-0.055	-0.99
H2K23H		8.975	0.052	0.97	8.925	0.035	0.62
H7C9LR	*	8.745	-0.178	-3.29	8.690	-0.200	-3.57
HP827P		8.920	-0.003	-0.05	8.890	0.000	-0.01
HT6EUE		8.890	-0.033	-0.61	8.870	-0.020	-0.36
JQFBW2		8.885	-0.038	-0.70	8.850	-0.040	-0.72
JY8NZ8		8.890	-0.033	-0.61	8.855	-0.035	-0.63
JZKK4Q		8.895	-0.028	-0.52	8.900	0.010	0.17
K68UN9		8.920	-0.003	-0.05	8.860	-0.030	-0.54
KXRNEW		8.995	0.072	1.34	8.975	0.085	1.51
LBUWAK	X	9.300	0.377	6.99	9.100	0.210	3.73
LYJ64Y	*	8.900	-0.023	-0.42	8.800	-0.090	-1.61
M7ENLK		8.930	0.007	0.13	8.910	0.020	0.35
M9GMWD		8.990	0.067	1.24	9.010	0.120	2.13
MB9JK8	X	9.400	0.477	8.84	9.400	0.510	9.08
MDV6DU		9.005	0.082	1.52	8.975	0.085	1.51
MNYFKJ		8.980	0.057	1.06	8.910	0.020	0.35



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Report #076

Spring 2024

## Analysis 901 Ethanol (% of volume)

WebCode	Data Flag	Sample SA51			Sample SA52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
MREM9J		8.915	-0.008	-0.15	8.885	-0.005	-0.10
MVUHLV		8.830	-0.093	-1.72	8.835	-0.055	-0.99
NBN6U9		8.955	0.032	0.60	8.930	0.040	0.70
NMJFZU		8.900	-0.023	-0.42	8.900	0.010	0.17
NQEAXW		9.025	0.102	1.89	8.980	0.090	1.60
P37F8K		8.935	0.012	0.22	8.910	0.020	0.35
PCU7TC	X	8.850	-0.073	-1.35	8.900	0.010	0.17
QPWYXU		8.910	-0.013	-0.24	8.890	0.000	-0.01
R73JBC		8.920	-0.003	-0.05	8.910	0.020	0.35
RD262Q		8.885	-0.038	-0.70	8.830	-0.060	-1.08
RJRH3E		8.880	-0.043	-0.79	8.840	-0.050	-0.90
RVGE2R		8.920	-0.003	-0.05	8.880	-0.010	-0.19
RX8GAZ		8.920	-0.003	-0.05	8.880	-0.010	-0.19
T2MBND		8.955	0.032	0.60	8.910	0.020	0.35
TM3TTN		8.955	0.032	0.60	8.920	0.030	0.53
TRFTPE		8.940	0.017	0.32	8.900	0.010	0.17
TWRGQB		8.910	-0.013	-0.24	8.870	-0.020	-0.36
UCFD3Q	X	9.140	0.217	4.02	9.125	0.235	4.18
URAXLY		8.865	-0.058	-1.07	8.825	-0.065	-1.17
VG733U		8.920	-0.003	-0.05	8.900	0.010	0.17
VGQJHW		8.935	0.012	0.22	8.900	0.010	0.17
VQH3W7		8.945	0.022	0.41	8.920	0.030	0.53
VUTCME		8.940	0.017	0.32	8.905	0.015	0.26
VYN4VB		8.833	-0.090	-1.67	8.811	-0.079	-1.42
WCQVEV		8.990	0.067	1.24	9.000	0.110	1.95
WEUM79		8.860	-0.063	-1.16	8.865	-0.025	-0.45
WMA7Q8		8.915	-0.008	-0.15	8.865	-0.025	-0.45
WXBUH6	X	9.185	0.262	4.86	9.165	0.275	4.89
X2NUEV		8.865	-0.058	-1.07	8.835	-0.055	-0.99
X9AR4J		8.925	0.002	0.04	8.885	-0.005	-0.10
XN4ECW	X	10.750	1.827	33.84	9.900	1.010	17.99
XRY7H9		8.920	-0.003	-0.05	8.865	-0.025	-0.45
Y6H8D6		8.940	0.017	0.32	8.900	0.010	0.17
YNYGE7		8.900	-0.023	-0.42	8.870	-0.020	-0.36
YZRX38		8.900	-0.023	-0.42	8.885	-0.005	-0.10



Analysis 901  
Ethanol (% of volume)

WebCode	Data Flag	Sample SA51			Sample SA52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
Z874DJ		8.955	0.032	0.60	8.920	0.030	0.53
ZGTZHQ		8.925	0.002	0.04	8.875	-0.015	-0.28
ZVEFLP		8.955	0.032	0.60	8.945	0.055	0.97
ZYDQGP		8.865	-0.058	-1.07	8.810	-0.080	-1.43

Grand Means	Summary Statistics
8.9229 percent	8.8905 percent
Stnd Dev Btwn Labs 0.0540 percent	0.0561 percent
<b>Statistics based on 95 of 109 reporting participants</b>	

Wines tested: SA51: Pink Moscato; SA52: Pink Moscato

**Comments on Assigned Data Flags for Test #901**

- UCFD3Q (X) - Data for both samples are high. Possible Systematic Error.
- 6ZQUFX (X) - Inconsistent in testing between samples.
- PCU7TC (X) - Inconsistent in testing between samples.
- WXBUH6 (X) - Data for both samples are high. Possible Systematic Error.
- LBUWAK (X) - Data for both samples are high. Possible Systematic Error.
- DBJ64W (X) - Inconsistent in testing, data for sample SA52 are high. Inconsistent within the determinations of sample SA52.
- 4ET4J8 (X) - Data for both samples are low. Possible Systematic Error.
- A8VJXX (X) - Data for both samples are high. Possible Systematic Error.
- XN4ECW (X) - Data for both samples are high. Inconsistent within the determinations of both samples.
- MB9JK8 (X) - Data for both samples are high. Possible Systematic Error.
- GLR7TD (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample SA51.
- GLCM9F (X) - Data for sample SA52 are low. Inconsistent within the determinations of sample SA52.
- DYT94J (X) - Data for both samples are low.
- 648EZR (X) - Inconsistent in testing between samples.





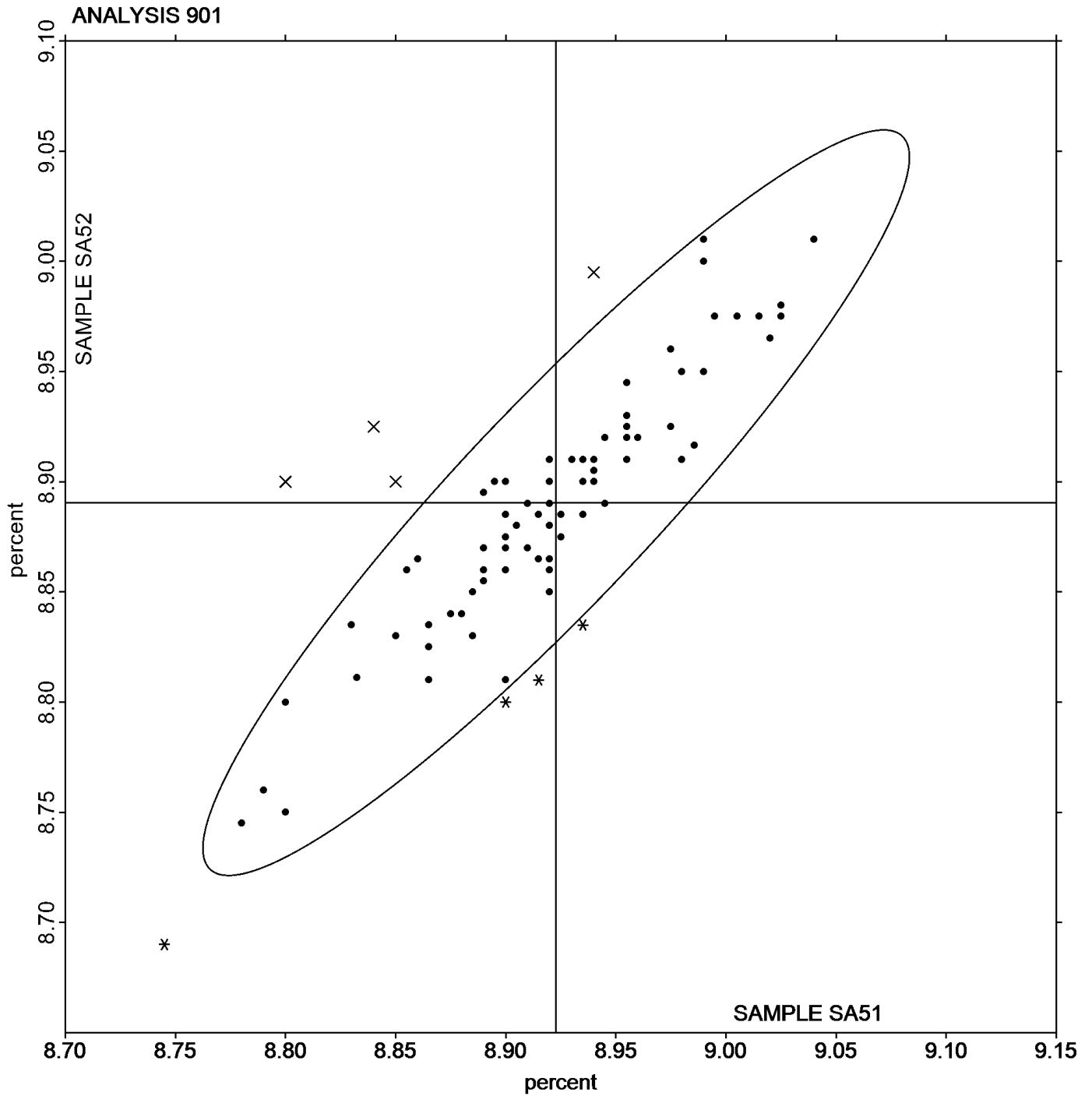
**Results by Methodology (as reported by laboratory)**

Test Methodology	Sample SA51 <i>Pink Moscato</i>			Sample SA52 <i>Pink Moscato</i>			Labs Incl / Rpt
	Group Mean	Btwn Lab STD	Diff from GM	Group Mean	Btwn Lab STD	Diff from GM	
Ebulliometer Method	8.800	0.000	-0.123	8.800	0.000	-0.090	1/8
Gas Chromatography Method	8.959	0.051	0.036	8.934	0.069	0.043	3/4
Near Infrared Method	8.923	0.049	0.000	8.890	0.051	0.000	69/72
Dist. / Density Method	8.875	0.060	-0.048	8.841	0.065	-0.049	10/10
FTIR	8.930	0.062	0.007	8.883	0.063	-0.008	9/12
Other	8.918	0.003	-0.005	8.860	0.044	-0.030	3/3



Analysis 901

Ethanol (% of volume)

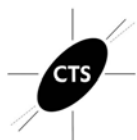




**ASEV-CTS Wine Industry Interlaboratory Testing Program**  
**Analysis 902**  
**Total Sulfur Dioxide**

**Report #076**  
**Spring 2024**

WebCode	Data Flag	Sample SA51			Sample SA52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
23888P		132.5	-13.2	-1.27	131.0	-15.9	-1.54
23QVPJ		147.8	2.0	0.20	153.2	6.3	0.61
2MZQKW		163.5	17.8	1.72	160.0	13.1	1.27
2UXHTQ		139.0	-6.7	-0.65	140.5	-6.4	-0.62
2XXQXZ		132.5	-13.2	-1.27	130.0	-16.9	-1.63
3BZJ3H		145.0	-0.7	-0.07	149.0	2.1	0.21
3VLET4		130.5	-15.2	-1.47	129.5	-17.4	-1.68
44V373		145.0	-0.7	-0.07	140.5	-6.4	-0.62
4D28UD		151.5	5.8	0.56	157.0	10.1	0.98
4ET4J8		147.2	1.5	0.14	149.8	2.9	0.28
4HV2UY		160.5	14.8	1.43	157.7	10.8	1.05
4ULXUC		142.0	-3.7	-0.36	141.0	-5.9	-0.57
62Y7VD		151.5	5.8	0.56	154.0	7.1	0.69
648EZR	X	148.0	2.3	0.22	130.0	-16.9	-1.63
6LR6YR		146.0	0.3	0.03	147.0	0.1	0.01
6P9DMQ	*	117.5	-28.2	-2.72	115.5	-31.4	-3.03
6ZQUFX	*	169.8	24.0	2.32	164.4	17.5	1.69
789M43		152.7	7.0	0.67	157.9	11.0	1.07
7K9LRY		134.0	-11.7	-1.13	134.0	-12.9	-1.24
7N8YD4		142.5	-3.2	-0.31	140.0	-6.9	-0.66
7TM823		136.5	-9.2	-0.89	136.5	-10.4	-1.00
86EFYV		161.0	15.3	1.47	155.0	8.1	0.79
8E44WJ		138.0	-7.7	-0.74	138.0	-8.9	-0.86
8FWWR3		161.5	15.8	1.52	168.0	21.1	2.04
96UYJT		145.5	-0.2	-0.02	143.5	-3.4	-0.33
9EY7YT		145.0	-0.7	-0.07	146.0	-0.9	-0.08
9HXHUT	X	96.5	-49.2	-4.74	111.5	-35.4	-3.42
9MREJJ		145.5	-0.2	-0.02	145.5	-1.4	-0.13
9ZDQVT		134.5	-11.2	-1.08	129.5	-17.4	-1.68
A4V9QJ		154.0	8.3	0.80	154.0	7.1	0.69
A8VJJX		134.0	-11.7	-1.13	137.5	-9.4	-0.91
AC88KU		132.0	-13.7	-1.32	141.0	-5.9	-0.57
AN3G6H		137.0	-8.7	-0.84	143.5	-3.4	-0.33
ATB4GY		151.0	5.3	0.51	150.5	3.6	0.35
BLRXJR		165.5	19.8	1.91	165.0	18.1	1.75



Analysis 902  
Total Sulfur Dioxide

WebCode	Data Flag	Sample SA51			Sample SA52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
BP6XGJ		147.0	1.3	0.12	145.0	-1.9	-0.18
BWN4DQ		163.5	17.8	1.72	165.0	18.1	1.75
BYFZ3K		144.5	-1.2	-0.12	144.5	-2.4	-0.23
CABTNF	*	121.0	-24.7	-2.38	129.0	-17.9	-1.73
CENB6X		147.5	1.8	0.17	151.5	4.6	0.45
CFFAJV		150.0	4.3	0.41	151.0	4.1	0.40
CND3RP		139.5	-6.2	-0.60	142.0	-4.9	-0.47
DBJ64W		130.0	-15.7	-1.51	127.5	-19.4	-1.87
DN936U		149.5	3.8	0.37	149.5	2.6	0.25
DYT94J		156.5	10.8	1.04	158.5	11.6	1.13
EJVJMD		147.5	1.8	0.17	142.0	-4.9	-0.47
EUPXKN		156.0	10.3	0.99	165.0	18.1	1.75
FQAPWP		138.0	-7.7	-0.74	136.5	-10.4	-1.00
FQNB9C		143.6	-2.1	-0.20	135.6	-11.3	-1.09
G8R6FC		147.0	1.3	0.12	155.0	8.1	0.79
GLCM9F		166.8	21.1	2.03	159.9	13.0	1.26
GLR7TD	X	156.4	10.7	1.03	134.8	-12.1	-1.17
GNXA23		140.0	-5.7	-0.55	134.0	-12.9	-1.24
H2K23H	*	136.0	-9.7	-0.94	151.0	4.1	0.40
H7C9LR		146.0	0.3	0.03	148.5	1.6	0.16
HP827P		140.5	-5.2	-0.50	139.0	-7.9	-0.76
HT6EUE		142.0	-3.7	-0.36	145.0	-1.9	-0.18
JQFBW2		149.5	3.8	0.37	159.5	12.6	1.22
JY8NZ8		143.0	-2.7	-0.26	141.0	-5.9	-0.57
JZKK4Q		147.4	1.7	0.16	145.1	-1.8	-0.18
KXRNEW	*	126.0	-19.7	-1.90	139.5	-7.4	-0.71
LBUWAK		140.0	-5.7	-0.55	144.0	-2.9	-0.28
LYJ64Y		152.5	6.8	0.66	156.5	9.6	0.93
M7ENLK		149.5	3.8	0.37	159.1	12.2	1.18
M9GMWD		138.5	-7.2	-0.69	140.0	-6.9	-0.66
MDV6DU		147.1	1.3	0.13	152.6	5.7	0.55
MNYFKJ		141.0	-4.7	-0.45	145.0	-1.9	-0.18
MREM9J		146.5	0.8	0.08	148.5	1.6	0.16
MVUHLV		168.0	22.3	2.15	168.5	21.6	2.09
NBN6U9		139.5	-6.2	-0.60	141.0	-5.9	-0.57



Analysis 902  
Total Sulfur Dioxide

WebCode	Data Flag	Sample SA51			Sample SA52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
NMJFZU		150.5	4.8	0.46	147.0	0.1	0.01
NQEAXW		147.5	1.8	0.17	146.5	-0.4	-0.04
P37F8K		132.0	-13.7	-1.32	131.5	-15.4	-1.49
PCU7TC		146.0	0.3	0.03	138.0	-8.9	-0.86
QPWYXU		158.0	12.3	1.19	167.0	20.1	1.95
RD262Q		147.0	1.3	0.12	147.0	0.1	0.01
RJRH3E		164.0	18.3	1.76	164.0	17.1	1.66
RVGE2R		148.5	2.8	0.27	144.5	-2.4	-0.23
RX8GAZ		154.0	8.3	0.80	154.0	7.1	0.69
T2MBND		138.0	-7.7	-0.74	140.5	-6.4	-0.62
TM3TTN		144.0	-1.7	-0.16	144.5	-2.4	-0.23
TRFTPE		143.5	-2.2	-0.21	148.0	1.1	0.11
TWRGQB		140.5	-5.2	-0.50	139.5	-7.4	-0.71
UCFD3Q		145.0	-0.7	-0.07	143.0	-3.9	-0.37
URAXLY	*	126.0	-19.7	-1.90	138.5	-8.4	-0.81
VG733U		147.5	1.8	0.17	149.0	2.1	0.21
VGQJHW		145.5	-0.2	-0.02	145.0	-1.9	-0.18
VQH3W7		150.0	4.3	0.41	146.5	-0.4	-0.04
VYN4VB		148.5	2.8	0.27	147.1	0.3	0.02
WCQVEV		140.0	-5.7	-0.55	139.5	-7.4	-0.71
WEUM79		142.0	-3.7	-0.36	147.0	0.1	0.01
WMA7Q8		169.0	23.3	2.25	170.0	23.1	2.24
WXBUH6		153.5	7.8	0.75	153.5	6.6	0.64
X2NUEV		161.5	15.8	1.52	157.0	10.1	0.98
X9AR4J		139.0	-6.7	-0.65	138.0	-8.9	-0.86
XN4ECW		151.0	5.3	0.51	151.5	4.6	0.45
XRY7H9		148.0	2.3	0.22	151.0	4.1	0.40
XYYPHH		145.0	-0.8	-0.07	148.0	1.1	0.11
Y6H8D6		154.2	8.4	0.81	159.2	12.3	1.19
YNYGE7		145.5	-0.2	-0.02	149.0	2.1	0.21
YZRX38		148.5	2.8	0.27	147.5	0.6	0.06
Z874DJ		153.0	7.3	0.70	153.5	6.6	0.64
ZVEFLP		124.0	-21.7	-2.09	131.5	-15.4	-1.49
ZYDQGP		133.5	-12.2	-1.18	136.0	-10.9	-1.05



Analysis 902
Total Sulfur Dioxide

Summary Statistics table with Grand Means (145.71 mg/L vs 146.87 mg/L) and Std Dev Btwn Labs (10.37 mg/L vs 10.34 mg/L). Statistics based on 101 of 104 reporting participants.

Wines tested: SA51: Pink Moscato; SA52: Pink Moscato

Comments on Assigned Data Flags for Test #902

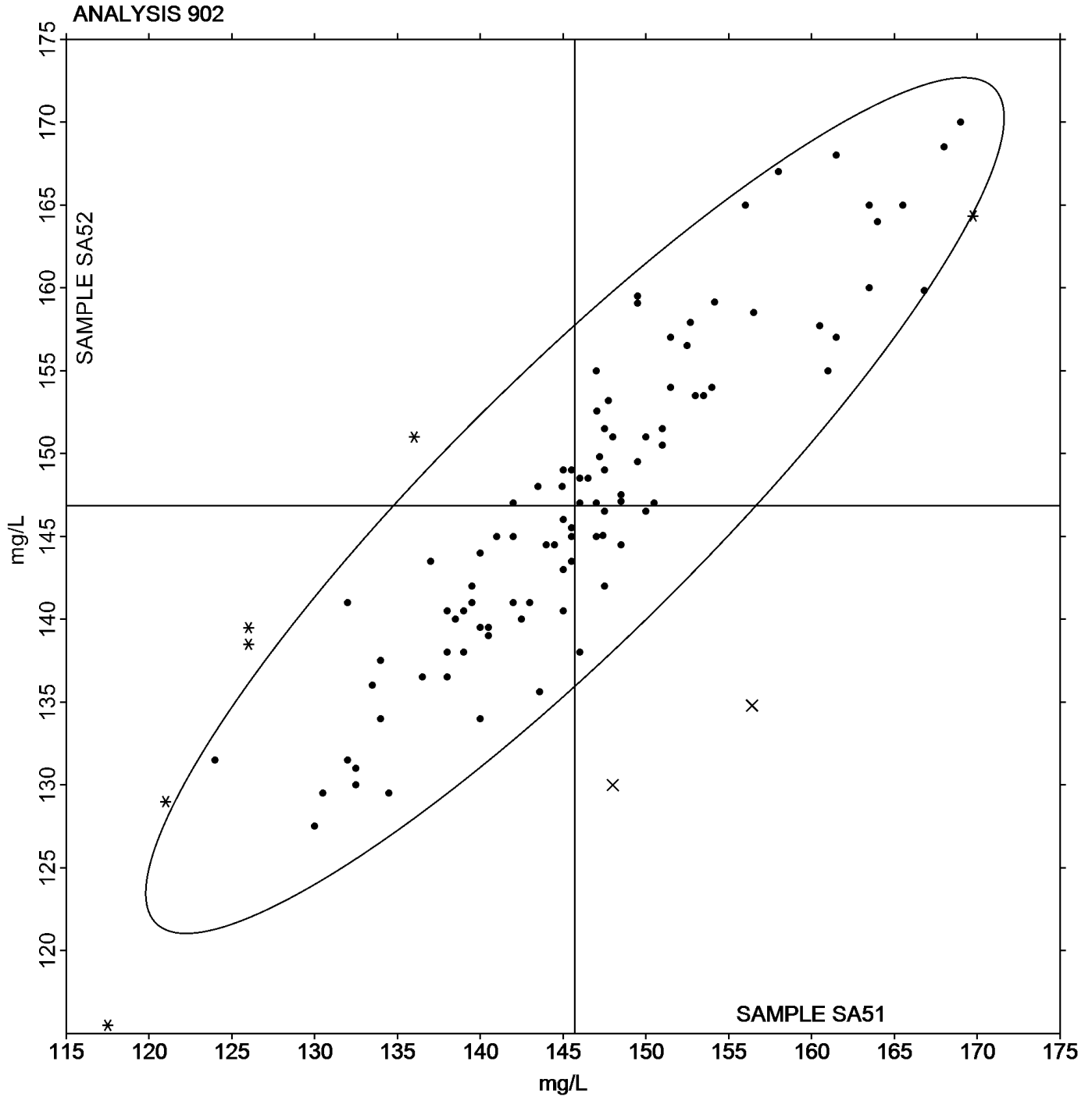
- 9HXHUT (X) - Data for both samples are low. Possible Systematic Error.
GLR7TD (X) - Inconsistent in testing between samples.
648EZR (X) - Inconsistent in testing between samples.

Results by Methodology (as reported by laboratory)

Table with 8 columns: Test Methodology, Sample SA51 (Group Mean, Btwn Lab STD, Diff from GM), Sample SA52 (Group Mean, Btwn Lab STD, Diff from GM), Labs Incl / Rpt. Rows include methods like Ripper Method, Aeration Oxidation (AO) Method, etc.



Analysis 902  
Total Sulfur Dioxide





**ASEV-CTS Wine Industry Interlaboratory Testing Program**  
**Analysis 903**  
**Free Sulfur Dioxide**

**Report #076**  
**Spring 2024**

WebCode	Data Flag	Sample SA51			Sample SA52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
23888P		23.50	-4.99	-1.79	24.50	-5.85	-1.98
23QVPJ		27.52	-0.97	-0.35	30.22	-0.14	-0.05
2DPNYV		25.92	-2.57	-0.92	27.62	-2.73	-0.92
2MZQKW		35.15	6.66	2.39	37.45	7.10	2.40
2UXHTQ		28.50	0.01	0.00	31.50	1.15	0.39
2XXQXZ		26.50	-1.99	-0.71	30.50	0.15	0.05
3BZJ3H		25.50	-2.99	-1.07	26.50	-3.85	-1.30
3VLET4		32.00	3.51	1.26	32.00	1.65	0.56
44V373		29.00	0.51	0.18	31.00	0.65	0.22
4D28UD		28.00	-0.49	-0.17	33.50	3.15	1.06
4ET4J8		29.50	1.01	0.36	33.30	2.95	1.00
4HV2UY		28.95	0.46	0.17	29.85	-0.50	-0.17
4ULXUC	*	31.50	3.01	1.08	29.00	-1.35	-0.46
62Y7VD		33.00	4.51	1.62	32.50	2.15	0.73
648EZR		25.00	-3.49	-1.25	27.00	-3.35	-1.13
6LR6YR		28.00	-0.49	-0.17	31.00	0.65	0.22
6P9DMQ		26.50	-1.99	-0.71	27.50	-2.85	-0.96
6ZQUFX	X	33.50	5.01	1.80	30.50	0.15	0.05
789M43		30.95	2.46	0.88	35.20	4.85	1.64
7K9LRY		30.00	1.51	0.54	34.00	3.65	1.23
7N8YD4		29.50	1.01	0.36	30.00	-0.35	-0.12
7TM823		28.40	-0.09	-0.03	31.60	1.25	0.42
86EFYV		34.00	5.51	1.98	34.00	3.65	1.23
8E44WJ		24.00	-4.49	-1.61	25.00	-5.35	-1.81
8FWWR3		25.00	-3.49	-1.25	28.00	-2.35	-0.79
96UYJT		29.00	0.51	0.18	30.00	-0.35	-0.12
9EY7YT		29.00	0.51	0.18	30.00	-0.35	-0.12
9HXHUT		30.75	2.26	0.81	32.25	1.90	0.64
9MREJJ		31.00	2.51	0.90	31.00	0.65	0.22
9ZDQVT		27.00	-1.49	-0.53	27.50	-2.85	-0.96
A4V9QJ	*	23.00	-5.49	-1.97	23.00	-7.35	-2.48
A8VJXX	X	36.80	8.31	2.98	41.40	11.05	3.73
AC88KU		26.00	-2.49	-0.89	28.00	-2.35	-0.79
AN3G6H		24.00	-4.49	-1.61	25.50	-4.85	-1.64
ATB4GY		30.50	2.01	0.72	30.50	0.15	0.05





Analysis 903  
Free Sulfur Dioxide

WebCode	Data Flag	Sample SA51			Sample SA52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
BLRXJR		30.50	2.01	0.72	32.00	1.65	0.56
BP6XGJ		30.50	2.01	0.72	32.50	2.15	0.73
BWN4DQ		32.35	3.86	1.39	33.80	3.45	1.17
BYFZ3K		30.70	2.21	0.79	31.40	1.05	0.35
CABTNF		25.00	-3.49	-1.25	28.00	-2.35	-0.79
CENB6X		27.00	-1.49	-0.53	29.50	-0.85	-0.29
CFFAJV		28.50	0.01	0.00	29.50	-0.85	-0.29
CND3RP		29.50	1.01	0.36	32.00	1.65	0.56
DBJ64W		26.00	-2.49	-0.89	26.50	-3.85	-1.30
DN936U		28.50	0.01	0.00	31.00	0.65	0.22
DYT94J		32.00	3.51	1.26	34.00	3.65	1.23
EJVJMD		32.00	3.51	1.26	33.00	2.65	0.89
EUPXKN		30.00	1.51	0.54	31.00	0.65	0.22
FQAPWP		30.50	2.01	0.72	32.00	1.65	0.56
FQNB9C		24.00	-4.49	-1.61	28.50	-1.85	-0.63
G8R6FC		26.00	-2.49	-0.89	29.00	-1.35	-0.46
GLCM9F		31.68	3.19	1.15	32.04	1.68	0.57
GLR7TD	X	37.76	9.27	3.33	36.79	6.43	2.17
GNXA23		28.50	0.01	0.00	30.00	-0.35	-0.12
H2K23H		35.00	6.51	2.34	36.50	6.15	2.08
H3CXRC		26.23	-2.26	-0.81	29.07	-1.28	-0.43
H7C9LR		27.00	-1.49	-0.53	28.50	-1.85	-0.63
HP827P		23.80	-4.69	-1.68	24.20	-6.15	-2.08
HT6EUE		30.50	2.01	0.72	33.50	3.15	1.06
JQFBW2	*	30.50	2.01	0.72	36.50	6.15	2.08
JY8NZ8		25.00	-3.49	-1.25	26.00	-4.35	-1.47
JZKK4Q		31.60	3.11	1.12	32.95	2.60	0.88
K68UN9		30.00	1.51	0.54	31.00	0.65	0.22
KXRNEW		29.50	1.01	0.36	30.50	0.15	0.05
LBUWAK		29.00	0.51	0.18	33.00	2.65	0.89
LYJ64Y		28.50	0.01	0.00	34.00	3.65	1.23
M7ENLK		30.00	1.51	0.54	32.80	2.44	0.83
M9GMWD		26.00	-2.49	-0.89	28.00	-2.35	-0.79
MB9JK8	*	20.80	-7.69	-2.76	24.80	-5.55	-1.88
MDV6DU		29.50	1.01	0.36	34.50	4.15	1.40



**ASEV-CTS Wine Industry Interlaboratory Testing Program**

**Report #076**

**Analysis 903**

**Spring 2024**

**Free Sulfur Dioxide**

WebCode	Data Flag	Sample SA51			Sample SA52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
MNYFKJ		27.00	-1.49	-0.53	30.00	-0.35	-0.12
MREM9J		26.00	-2.49	-0.89	28.00	-2.35	-0.79
MVUHLV		29.00	0.51	0.18	31.00	0.65	0.22
NBN6U9		26.50	-1.99	-0.71	27.00	-3.35	-1.13
NMJFZU		26.50	-1.99	-0.71	27.00	-3.35	-1.13
NQEAXW		28.50	0.01	0.00	29.50	-0.85	-0.29
P37F8K		31.50	3.01	1.08	32.00	1.65	0.56
PCU7TC	X	35.00	6.51	2.34	31.50	1.15	0.39
QPWYXU	X	35.19	6.70	2.40	40.93	10.58	3.57
R73JBC		26.00	-2.49	-0.89	28.50	-1.85	-0.63
RD262Q		26.50	-1.99	-0.71	28.50	-1.85	-0.63
RJRH3E		27.00	-1.49	-0.53	29.00	-1.35	-0.46
RVGE2R		30.50	2.01	0.72	30.50	0.15	0.05
RX8GAZ	X	18.60	-9.89	-3.55	20.60	-9.75	-3.30
T2MBND		28.50	0.01	0.00	31.00	0.65	0.22
TM3TTN		27.00	-1.49	-0.53	29.00	-1.35	-0.46
TRFTPE		29.00	0.51	0.18	33.50	3.15	1.06
TWRGQB		29.00	0.51	0.18	31.50	1.15	0.39
UCFD3Q		25.00	-3.49	-1.25	26.00	-4.35	-1.47
URAXLY	X	21.00	-7.49	-2.69	28.00	-2.35	-0.79
VG733U		29.00	0.51	0.18	29.00	-1.35	-0.46
VGQJHW		33.50	5.01	1.80	35.00	4.65	1.57
VQH3W7		29.00	0.51	0.18	28.00	-2.35	-0.79
VUTCME		29.20	0.71	0.26	29.00	-1.35	-0.46
VYN4VB		25.88	-2.61	-0.94	27.55	-2.80	-0.95
WCQVEV		29.00	0.51	0.18	31.00	0.65	0.22
WEUM79		25.50	-2.99	-1.07	26.50	-3.85	-1.30
WMA7Q8	*	36.50	8.01	2.87	37.30	6.95	2.35
WXBUH6		29.00	0.51	0.18	29.50	-0.85	-0.29
X2NUEV		29.50	1.01	0.36	33.00	2.65	0.89
X9AR4J		26.50	-1.99	-0.71	30.50	0.15	0.05
XN4ECW		28.00	-0.49	-0.17	29.50	-0.85	-0.29
XRY7H9		29.00	0.51	0.18	32.50	2.15	0.73
Y6H8D6		28.30	-0.19	-0.07	32.00	1.65	0.56
YNYGE7		28.00	-0.49	-0.17	31.00	0.65	0.22



Analysis 903  
Free Sulfur Dioxide

WebCode	Data Flag	Sample SA51			Sample SA52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
YZRX38		26.50	-1.99	-0.71	28.00	-2.35	-0.79
Z874DJ		33.00	4.51	1.62	35.50	5.15	1.74
ZGTZHQ		28.00	-0.49	-0.17	30.00	-0.35	-0.12
ZVEFLP	X	21.00	-7.49	-2.69	30.00	-0.35	-0.12
ZYDQGP		26.50	-1.99	-0.71	27.00	-3.35	-1.13

Grand Means		Summary Statistics	
	28.487 mg/L		30.352 mg/L
Std Dev Btwn Labs		2.959 mg/L	
	2.788 mg/L		
<b>Statistics based on 102 of 110 reporting participants</b>			

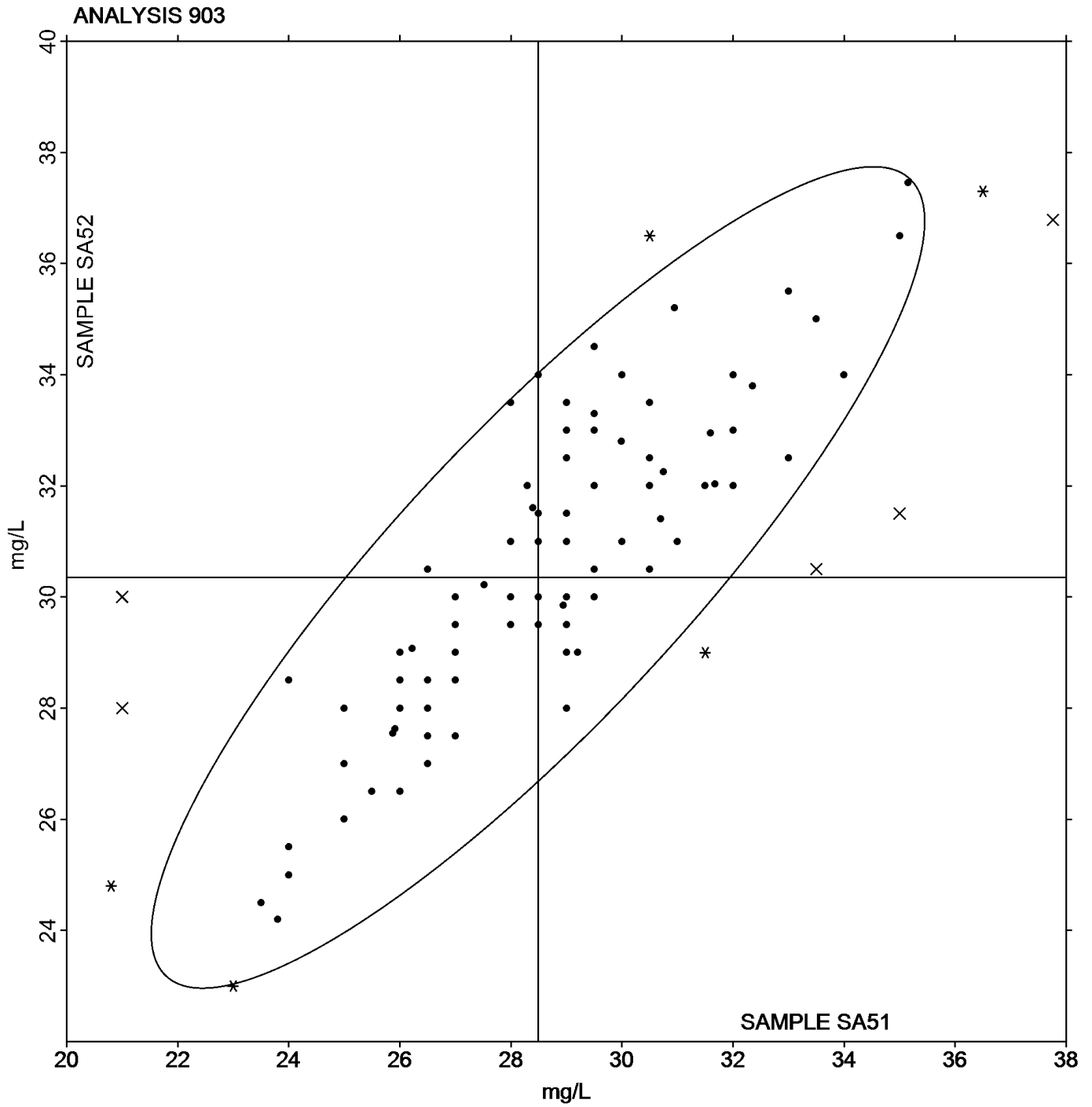
Wines tested: SA51: Pink Moscato; SA52: Pink Moscato

**Comments on Assigned Data Flags for Test #903**

- QPWYXU (X) - Inconsistent in testing, data for sample SA52 are high.
- 6ZQUFX (X) - Inconsistent in testing between samples.
- PCU7TC (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample SA52.
- A8VJXX (X) - Data for both samples are high. Possible Systematic Error.
- RX8GAZ (X) - Data for both samples are low. Possible Systematic Error.
- ZVEFLP (X) - Inconsistent in testing between samples.
- URAXLY (X) - Inconsistent in testing between samples.
- GLR7TD (X) - Inconsistent in testing, data for sample SA51 are high.

**Results by Methodology (as reported by laboratory)**

Test Methodology	Sample SA51 <i>Pink Moscato</i>			Sample SA52 <i>Pink Moscato</i>			Labs Incl / Rpt
	Group Mean	Btwn Lab STD	Diff from GM	Group Mean	Btwn Lab STD	Diff from GM	
Please specify method used	28.500	3.291	0.01	30.875	2.955	0.52	4/4
Ripper Method	28.452	2.937	-0.03	30.141	3.024	-0.21	31/34
Aeration Oxidation (AO) Method	27.477	2.726	-1.01	29.817	2.883	-0.53	25/26
Segmented Flow Analyzer	29.867	2.531	1.38	30.833	2.787	0.48	6/8
Enzymatic Method	28.947	2.813	0.46	31.167	3.482	0.81	9/10
Colorimetric Analyzer	28.779	2.081	0.29	30.252	2.411	-0.10	13/13
Flow Injection Analysis	27.940	2.441	-0.55	29.589	2.877	-0.76	8/8
FTIR	30.892	3.139	2.40	32.850	3.507	2.50	6/7





Analysis 904  
Titratable Acidity

WebCode	Data Flag	Sample SA51			Sample SA52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
23888P		7.350	0.319	0.97	7.300	0.295	0.90
23QVPJ	*	7.905	0.874	2.66	7.840	0.835	2.54
2DPNYV	*	7.925	0.894	2.72	7.865	0.860	2.61
2MZQKW		7.315	0.284	0.86	7.325	0.320	0.97
2UXHTQ		6.950	-0.081	-0.24	7.050	0.045	0.14
2XXQXZ		6.950	-0.081	-0.24	7.150	0.145	0.44
3BZJ3H		7.330	0.299	0.91	7.290	0.285	0.87
3VLET4		7.465	0.434	1.32	7.320	0.315	0.96
44V373		6.990	-0.041	-0.12	6.940	-0.065	-0.20
4D28UD		6.835	-0.196	-0.59	6.820	-0.185	-0.56
4ET4J8		7.390	0.359	1.09	7.540	0.535	1.63
4HV2UY		6.770	-0.261	-0.79	6.750	-0.255	-0.77
4ULXUC		6.800	-0.231	-0.70	6.800	-0.205	-0.62
62Y7VD		7.500	0.469	1.43	7.450	0.445	1.35
648EZR		6.980	-0.051	-0.15	6.900	-0.105	-0.32
6LR6YR		6.850	-0.181	-0.55	6.850	-0.155	-0.47
6P9DMQ		6.845	-0.186	-0.56	6.850	-0.155	-0.47
6ZQUFX	X	8.500	1.469	4.46	8.600	1.595	4.85
789M43		7.005	-0.026	-0.08	6.970	-0.035	-0.11
7K9LRY		7.000	-0.031	-0.09	7.000	-0.005	-0.01
7N8YD4		6.700	-0.331	-1.00	6.800	-0.205	-0.62
7TM823	X	6.905	-0.126	-0.38	7.535	0.530	1.61
86EFYV		7.700	0.669	2.03	7.650	0.645	1.96
8E44WJ		6.700	-0.331	-1.00	6.600	-0.405	-1.23
8FWWR3		7.050	0.019	0.06	7.050	0.045	0.14
96UYJT		7.080	0.049	0.15	7.250	0.245	0.75
9EY7YT		7.720	0.689	2.09	7.675	0.670	2.04
9HXHUT	X	7.250	0.219	0.67	6.850	-0.155	-0.47
9MREJJ		7.200	0.169	0.51	7.200	0.195	0.59
9ZDQVT		6.800	-0.231	-0.70	6.800	-0.205	-0.62
A4V9QJ		6.880	-0.151	-0.46	6.690	-0.315	-0.96
A8VJJX		7.371	0.340	1.03	7.355	0.350	1.06
AC88KU	X	5.400	-1.631	-4.95	6.000	-1.005	-3.05
AN3G6H		6.965	-0.066	-0.20	6.815	-0.190	-0.58
ATB4GY		6.950	-0.081	-0.24	6.850	-0.155	-0.47



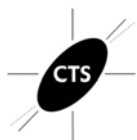
# ASEV-CTS Wine Industry Interlaboratory Testing Program

Report #076

Spring 2024

## Analysis 904 Titratable Acidity

WebCode	Data Flag	Sample SA51			Sample SA52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
BLRXJR		6.260	-0.771	-2.34	6.265	-0.740	-2.25
BP6XGJ		6.905	-0.126	-0.38	6.840	-0.165	-0.50
BWN4DQ		7.400	0.369	1.12	7.300	0.295	0.90
BYFZ3K		6.895	-0.136	-0.41	6.925	-0.080	-0.24
CABTNF	X	7.160	0.129	0.39	6.150	-0.855	-2.60
CENB6X		7.100	0.069	0.21	7.050	0.045	0.14
CFFAJV		6.950	-0.081	-0.24	6.850	-0.155	-0.47
CND3RP		6.660	-0.371	-1.13	6.635	-0.370	-1.12
DBJ64W		6.890	-0.141	-0.43	6.860	-0.145	-0.44
DN936U		7.200	0.169	0.51	7.100	0.095	0.29
DYT94J		7.130	0.099	0.30	7.130	0.125	0.38
EJVJMD		7.050	0.019	0.06	7.150	0.145	0.44
EUPXKN		6.470	-0.561	-1.70	6.490	-0.515	-1.56
FQNB9C		7.100	0.069	0.21	7.050	0.045	0.14
G8R6FC		6.900	-0.131	-0.40	6.900	-0.105	-0.32
GLCM9F		6.860	-0.171	-0.52	6.635	-0.370	-1.12
GLR7TD		6.700	-0.331	-1.00	6.695	-0.310	-0.94
GNXA23		6.750	-0.281	-0.85	6.685	-0.320	-0.97
H2K23H		7.135	0.104	0.32	7.265	0.260	0.79
H3CXRC	X	7.240	0.209	0.64	6.700	-0.305	-0.93
H7C9LR		6.885	-0.146	-0.44	6.715	-0.290	-0.88
HP827P	*	7.680	0.649	1.97	7.805	0.800	2.43
HT6EUE		6.950	-0.081	-0.24	7.150	0.145	0.44
JQFBW2		7.135	0.104	0.32	7.080	0.075	0.23
JY8NZ8		6.600	-0.431	-1.31	6.550	-0.455	-1.38
JZKK4Q	X	7.610	0.579	1.76	7.855	0.850	2.58
K68UN9		7.045	0.014	0.04	6.965	-0.040	-0.12
KXRNEW		6.700	-0.331	-1.00	6.725	-0.280	-0.85
LBUWAK	*	7.050	0.019	0.06	6.750	-0.255	-0.77
LYJ64Y		6.900	-0.131	-0.40	6.900	-0.105	-0.32
M7ENLK		6.985	-0.046	-0.14	7.035	0.030	0.09
MB9JK8		6.600	-0.431	-1.31	6.600	-0.405	-1.23
MDV6DU		7.185	0.154	0.47	6.995	-0.010	-0.03
MNYFKJ	X	8.300	1.269	3.85	8.300	1.295	3.93
MREM9J		7.000	-0.031	-0.09	7.200	0.195	0.59



Analysis 904  
Titratable Acidity

WebCode	Data Flag	Sample SA51			Sample SA52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
MVUHLV		7.755	0.724	2.20	7.645	0.640	1.94
NBN6U9		7.550	0.519	1.58	7.400	0.395	1.20
NMJFZU		7.190	0.159	0.48	7.040	0.035	0.11
NQEAXW		6.665	-0.366	-1.11	6.610	-0.395	-1.20
P37F8K		7.270	0.239	0.73	7.140	0.135	0.41
PCU7TC		6.710	-0.321	-0.97	6.740	-0.265	-0.80
QPWYXU		6.795	-0.236	-0.72	6.620	-0.385	-1.17
R73JBC		7.465	0.434	1.32	7.570	0.565	1.72
RD262Q		6.850	-0.181	-0.55	6.800	-0.205	-0.62
RJRH3E		6.990	-0.041	-0.12	7.000	-0.005	-0.01
RVGE2R		6.605	-0.426	-1.29	6.565	-0.440	-1.34
RX8GAZ	*	6.720	-0.311	-0.94	6.930	-0.075	-0.23
T2MBND	X	8.350	1.319	4.01	8.300	1.295	3.93
TM3TTN		6.645	-0.386	-1.17	6.635	-0.370	-1.12
TRFTPE	*	7.565	0.534	1.62	7.288	0.283	0.86
TWRGQB		6.750	-0.281	-0.85	6.700	-0.305	-0.93
UCFD3Q		7.250	0.219	0.67	7.250	0.245	0.75
URAXLY	X	7.835	0.804	2.44	7.105	0.100	0.30
VG733U	X	7.500	0.469	1.43	7.800	0.795	2.42
VGQJHW		7.065	0.034	0.10	7.090	0.085	0.26
VQH3W7	X	8.130	1.099	3.34	8.145	1.140	3.46
VUTCME		7.000	-0.031	-0.09	7.000	-0.005	-0.01
VYN4VB		6.900	-0.131	-0.40	6.800	-0.205	-0.62
WCQVEV		6.739	-0.292	-0.89	6.717	-0.288	-0.88
WMA7Q8		7.405	0.374	1.14	7.355	0.350	1.06
WXBUH6		7.300	0.269	0.82	7.200	0.195	0.59
X2NUEV		6.900	-0.131	-0.40	6.850	-0.155	-0.47
X9AR4J		6.550	-0.481	-1.46	6.600	-0.405	-1.23
XN4ECW	X	8.085	1.054	3.20	7.760	0.755	2.29
XRY7H9		6.995	-0.036	-0.11	7.005	0.000	0.00
XYYPHH		7.719	0.688	2.09	7.656	0.651	1.98
Y6H8D6		6.780	-0.251	-0.76	6.740	-0.265	-0.80
YNYGE7		6.690	-0.341	-1.03	6.640	-0.365	-1.11
YZRX38		6.935	-0.096	-0.29	6.925	-0.080	-0.24
Z874DJ		6.745	-0.286	-0.87	6.720	-0.285	-0.86



Analysis 904  
Titratable Acidity

WebCode	Data Flag	Sample SA51			Sample SA52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
ZGTZHQ		6.900	-0.131	-0.40	6.900	-0.105	-0.32
ZVEFLP		7.135	0.104	0.32	7.275	0.270	0.82
ZYDQGP	X	2.940	-4.091	-12.42	2.925	-4.080	-12.39

Grand Means	Summary Statistics
7.0306 g/L as tartaric acid	7.0047 g/L as tartaric acid
Std Dev Btwn Labs	
0.3293 g/L as tartaric acid	0.3292 g/L as tartaric acid
<b>Statistics based on 94 of 108 reporting participants</b>	

Wines tested: SA51: Pink Moscato; SA52: Pink Moscato

**Comments on Assigned Data Flags for Test #904**

- 9HXHUT (X) - Inconsistent in testing between samples. Inconsistent within the determinations of both samples.
- 6ZQUFX (X) - Data for both samples are high. Possible Systematic Error.
- VQH3W7 (X) - Data for both samples are high. Possible Systematic Error.
- T2MBND (X) - Data for both samples are high. Possible Systematic Error.
- AC88KU (X) - Data for both samples are low. Possible Systematic Error.
- MNYFKJ (X) - Data for both samples are high. Possible Systematic Error.
- JZKK4Q (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample SA51.
- 7TM823 (X) - Inconsistent in testing between samples.
- ZYDQGP (X) - Data for both samples are low.
- VG733U (X) - Inconsistent in testing between samples.
- XN4ECW (X) - Inconsistent in testing, data for sample SA51 are high.
- H3CXRC (X) - Inconsistent in testing between samples.
- URAXLY (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample SA51.
- CABTNF (X) - Inconsistent in testing between samples.





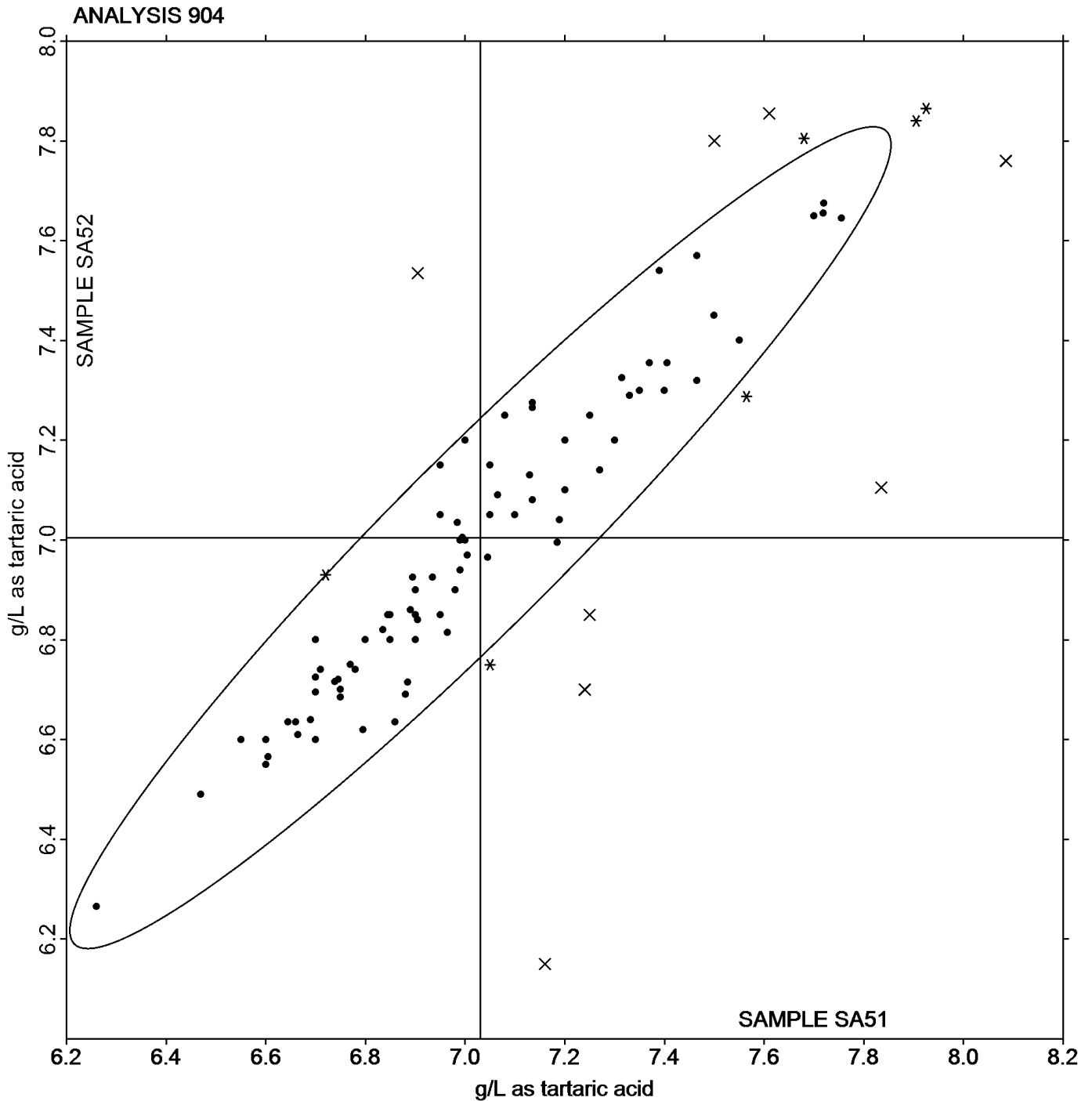
**Analysis 904  
Titratable Acidity**

**Results by Methodology (as reported by laboratory)**

Test Methodology	Sample SA51 <i>Pink Moscato</i>			Sample SA52 <i>Pink Moscato</i>			Labs Incl / Rpt
	Group Mean	Btwn Lab STD	Diff from GM	Group Mean	Btwn Lab STD	Diff from GM	
Please specify method	6.965	0.021	-0.066	7.025	0.177	0.020	2/2
Autotitration	7.051	0.369	0.021	7.027	0.363	0.022	63/71
Manual Titration	6.937	0.249	-0.094	6.904	0.284	-0.101	16/21
FTIR	7.045	0.215	0.015	7.015	0.207	0.010	12/13
Segmented Flow Analyzer	7.190	0.000	0.159	7.040	0.000	0.035	1/1



Analysis 904  
Titratable Acidity



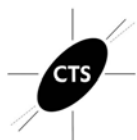


# ASEV-CTS Wine Industry Interlaboratory Testing Program

Report #076  
Spring 2024

## Analysis 905 Volatile Acidity

WebCode	Data Flag	Sample SA51			Sample SA52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
23888P		0.2200	-0.0218	-0.52	0.2250	-0.0176	-0.42
23QVPJ		0.2420	0.0002	0.01	0.2430	0.0004	0.01
2DPNYV		0.1570	-0.0848	-2.02	0.1590	-0.0836	-1.99
2MZQKW		0.2150	-0.0268	-0.64	0.2200	-0.0226	-0.54
2UXHTQ	X	0.3500	0.1082	2.57	0.3300	0.0874	2.08
2XXQXZ		0.2200	-0.0218	-0.52	0.2150	-0.0276	-0.66
3BZJ3H		0.2560	0.0142	0.34	0.2485	0.0059	0.14
3VLET4		0.2100	-0.0318	-0.76	0.2150	-0.0276	-0.66
44V373		0.2100	-0.0318	-0.76	0.2100	-0.0326	-0.78
4D28UD		0.2950	0.0532	1.27	0.2950	0.0524	1.25
4ET4J8		0.2370	-0.0048	-0.11	0.2410	-0.0016	-0.04
4HV2UY		0.2285	-0.0133	-0.32	0.2360	-0.0066	-0.16
4ULXUC		0.2900	0.0482	1.15	0.2900	0.0474	1.13
62Y7VD		0.2650	0.0232	0.55	0.2800	0.0374	0.89
648EZR		0.2000	-0.0418	-0.99	0.2000	-0.0426	-1.01
6LR6YR	X	0.2550	0.0132	0.31	0.2250	-0.0176	-0.42
6P9DMQ		0.2300	-0.0118	-0.28	0.2300	-0.0126	-0.30
6ZQUFX		0.2695	0.0277	0.66	0.2695	0.0269	0.64
789M43		0.2130	-0.0288	-0.68	0.2085	-0.0341	-0.81
7K9LRY		0.3000	0.0582	1.38	0.2900	0.0474	1.13
7N8YD4		0.3400	0.0982	2.34	0.3300	0.0874	2.08
7TM823		0.2000	-0.0418	-0.99	0.2050	-0.0376	-0.89
86EFYV	*	0.3350	0.0932	2.22	0.3500	0.1074	2.55
8E44WJ		0.2100	-0.0318	-0.76	0.2100	-0.0326	-0.78
8FWWR3		0.2200	-0.0218	-0.52	0.2300	-0.0126	-0.30
96UYJT		0.2250	-0.0168	-0.40	0.2150	-0.0276	-0.66
9EY7YT		0.2800	0.0382	0.91	0.2900	0.0474	1.13
9HXHUT	X	0.3450	0.1032	2.45	0.3850	0.1424	3.39
9MREJJ		0.2000	-0.0418	-0.99	0.2100	-0.0326	-0.78
9ZDQVT		0.2050	-0.0368	-0.87	0.2050	-0.0376	-0.89
A4V9QJ	*	0.3600	0.1182	2.81	0.3600	0.1174	2.79
A8VJJX		0.2940	0.0522	1.24	0.2960	0.0534	1.27
AC88KU		0.2100	-0.0318	-0.76	0.2100	-0.0326	-0.78
AN3G6H		0.2400	-0.0018	-0.04	0.2450	0.0024	0.06
ATB4GY		0.2050	-0.0368	-0.87	0.2000	-0.0426	-1.01



# ASEV-CTS Wine Industry Interlaboratory Testing Program

Report #076  
Spring 2024

## Analysis 905 Volatile Acidity

WebCode	Data Flag	Sample SA51			Sample SA52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
BLRXJR		0.2200	-0.0218	-0.52	0.2250	-0.0176	-0.42
BP6XGJ		0.1950	-0.0468	-1.11	0.2000	-0.0426	-1.01
BWN4DQ		0.2750	0.0332	0.79	0.2750	0.0324	0.77
BYFZ3K		0.2420	0.0002	0.01	0.2460	0.0034	0.08
CABTNF		0.2700	0.0282	0.67	0.2800	0.0374	0.89
CENB6X		0.2350	-0.0068	-0.16	0.2400	-0.0026	-0.06
CFFAJV		0.2100	-0.0318	-0.76	0.2100	-0.0326	-0.78
CND3RP	*	0.3350	0.0932	2.22	0.3150	0.0724	1.72
DBJ64W		0.2200	-0.0218	-0.52	0.2200	-0.0226	-0.54
DN936U		0.2250	-0.0168	-0.40	0.2200	-0.0226	-0.54
DYT94J	*	0.3450	0.1032	2.45	0.3500	0.1074	2.55
EJVJMD		0.2400	-0.0018	-0.04	0.2300	-0.0126	-0.30
EUPXKN		0.3300	0.0882	2.10	0.3200	0.0774	1.84
FQAPWP		0.2050	-0.0368	-0.87	0.2100	-0.0326	-0.78
FQNB9C	X	0.3750	0.1332	3.17	0.3350	0.0924	2.20
G8R6FC	*	0.2500	0.0082	0.20	0.2300	-0.0126	-0.30
GNXA23	X	0.2700	0.0282	0.67	0.3000	0.0574	1.37
H2K23H	X	0.1450	-0.0968	-2.30	0.3400	0.0974	2.32
H3CXRC		0.2300	-0.0118	-0.28	0.2300	-0.0126	-0.30
H7C9LR		0.2200	-0.0218	-0.52	0.2200	-0.0226	-0.54
HP827P		0.1905	-0.0513	-1.22	0.2020	-0.0406	-0.97
HT6EUE		0.2350	-0.0068	-0.16	0.2350	-0.0076	-0.18
JQFBW2		0.2600	0.0182	0.43	0.2600	0.0174	0.41
JY8NZ8	*	0.3700	0.1282	3.05	0.3700	0.1274	3.03
JZKK4Q		0.2350	-0.0068	-0.16	0.2300	-0.0126	-0.30
K68UN9		0.2500	0.0082	0.20	0.2550	0.0124	0.29
KXRNEW	*	0.2450	0.0032	0.08	0.2700	0.0274	0.65
LBUWAK	*	0.2100	-0.0318	-0.76	0.1900	-0.0526	-1.25
LYJ64Y		0.2300	-0.0118	-0.28	0.2200	-0.0226	-0.54
M7ENLK		0.2300	-0.0118	-0.28	0.2150	-0.0276	-0.66
MB9JK8	X	0.1650	-0.0768	-1.83	0.1900	-0.0526	-1.25
MDV6DU		0.2350	-0.0068	-0.16	0.2300	-0.0126	-0.30
MNYFKJ		0.2400	-0.0018	-0.04	0.2500	0.0074	0.18
MREM9J		0.2100	-0.0318	-0.76	0.2150	-0.0276	-0.66
MVUHLV	X	0.3760	0.1342	3.19	0.4185	0.1759	4.18



# ASEV-CTS Wine Industry Interlaboratory Testing Program

Report #076  
Spring 2024

## Analysis 905 Volatile Acidity

WebCode	Data Flag	Sample SA51			Sample SA52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
NBN6U9		0.2300	-0.0118	-0.28	0.2300	-0.0126	-0.30
NMJFZU	X	0.6550	0.4132	9.82	0.6450	0.4024	9.57
NQEAXW		0.2100	-0.0318	-0.76	0.2100	-0.0326	-0.78
P37F8K		0.2050	-0.0368	-0.87	0.2050	-0.0376	-0.89
PCU7TC	X	0.3900	0.1482	3.52	0.3900	0.1474	3.51
QPWYXU	*	0.3400	0.0982	2.34	0.3500	0.1074	2.55
R73JBC		0.2300	-0.0118	-0.28	0.2350	-0.0076	-0.18
RD262Q		0.2250	-0.0168	-0.40	0.2150	-0.0276	-0.66
RJRH3E		0.2200	-0.0218	-0.52	0.2200	-0.0226	-0.54
RVGE2R		0.2200	-0.0218	-0.52	0.2200	-0.0226	-0.54
RX8GAZ		0.2500	0.0082	0.20	0.2500	0.0074	0.18
T2MBND		0.2200	-0.0218	-0.52	0.2200	-0.0226	-0.54
TM3TTN		0.2200	-0.0218	-0.52	0.2300	-0.0126	-0.30
TRFTPE		0.2400	-0.0018	-0.04	0.2500	0.0074	0.18
TWRGQB		0.2200	-0.0218	-0.52	0.2300	-0.0126	-0.30
UCFD3Q		0.1850	-0.0568	-1.35	0.1900	-0.0526	-1.25
URAXLY		0.2350	-0.0068	-0.16	0.2400	-0.0026	-0.06
VG733U		0.2250	-0.0168	-0.40	0.2250	-0.0176	-0.42
VGQJHW	X	0.3700	0.1282	3.05	0.3100	0.0674	1.60
VQH3W7		0.2400	-0.0018	-0.04	0.2500	0.0074	0.18
VUTCME		0.1750	-0.0668	-1.59	0.1700	-0.0726	-1.73
VYN4VB		0.2000	-0.0418	-0.99	0.2000	-0.0426	-1.01
WCQVEV		0.2700	0.0282	0.67	0.2550	0.0124	0.29
WEUM79		0.2500	0.0082	0.20	0.2450	0.0024	0.06
WMA7Q8		0.2500	0.0082	0.20	0.2550	0.0124	0.29
WXBUH6		0.3200	0.0782	1.86	0.3200	0.0774	1.84
X2NUEV		0.2375	-0.0043	-0.10	0.2415	-0.0011	-0.03
X9AR4J		0.2300	-0.0118	-0.28	0.2300	-0.0126	-0.30
XN4ECW		0.2050	-0.0368	-0.87	0.2150	-0.0276	-0.66
XRY7H9		0.2400	-0.0018	-0.04	0.2400	-0.0026	-0.06
Y6H8D6		0.2305	-0.0113	-0.27	0.2310	-0.0116	-0.28
YNYGE7		0.2300	-0.0118	-0.28	0.2300	-0.0126	-0.30
YZRX38		0.2550	0.0132	0.31	0.2550	0.0124	0.29
Z874DJ		0.2170	-0.0248	-0.59	0.2190	-0.0236	-0.56
ZGTZHQ	X	0.1750	-0.0668	-1.59	0.2050	-0.0376	-0.89



Analysis 905  
Volatile Acidity

WebCode	Data Flag	Sample SA51			Sample SA52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
ZVEFLP	X	0.4000	0.1582	3.76	0.4350	0.1924	4.58
ZYDQGP		0.3000	0.0582	1.38	0.3000	0.0574	1.37

Grand Means	Summary Statistics
0.24177 g/L as acetic acid	0.24261 g/L as acetic acid
Std Dev Btwn Labs	
0.04206 g/L as acetic acid	0.04203 g/L as acetic acid
<b>Statistics based on 94 of 107 reporting participants</b>	

Wines tested: SA51: Pink Moscato; SA52: Pink Moscato

**Comments on Assigned Data Flags for Test #905**

- MVUHLV (X) - Data for both samples are high. Inconsistent within the determinations of both samples.
- NMJFZU (X) - Data for both samples are high.
- GNXA23 (X) - Inconsistent in testing between samples. Inconsistent within the determinations of both samples.
- 9HXHUT (X) - Data for sample SA52 are high.
- PCU7TC (X) - Data for both samples are high.
- H2K23H (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample SA52.
- 2UXHTQ (X) - Inconsistent in testing between samples.
- VGQJHW (X) - Data for sample SA51 are high. Inconsistent within the determinations of sample SA52.
- FQNB9C (X) - Data for sample SA51 are high.
- ZVEFLP (X) - Data for both samples are high.
- ZGTZHQ (X) - Inconsistent in testing between samples.
- MB9JK8 (X) - Inconsistent in testing between samples.
- 6LR6YR (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample SA52.



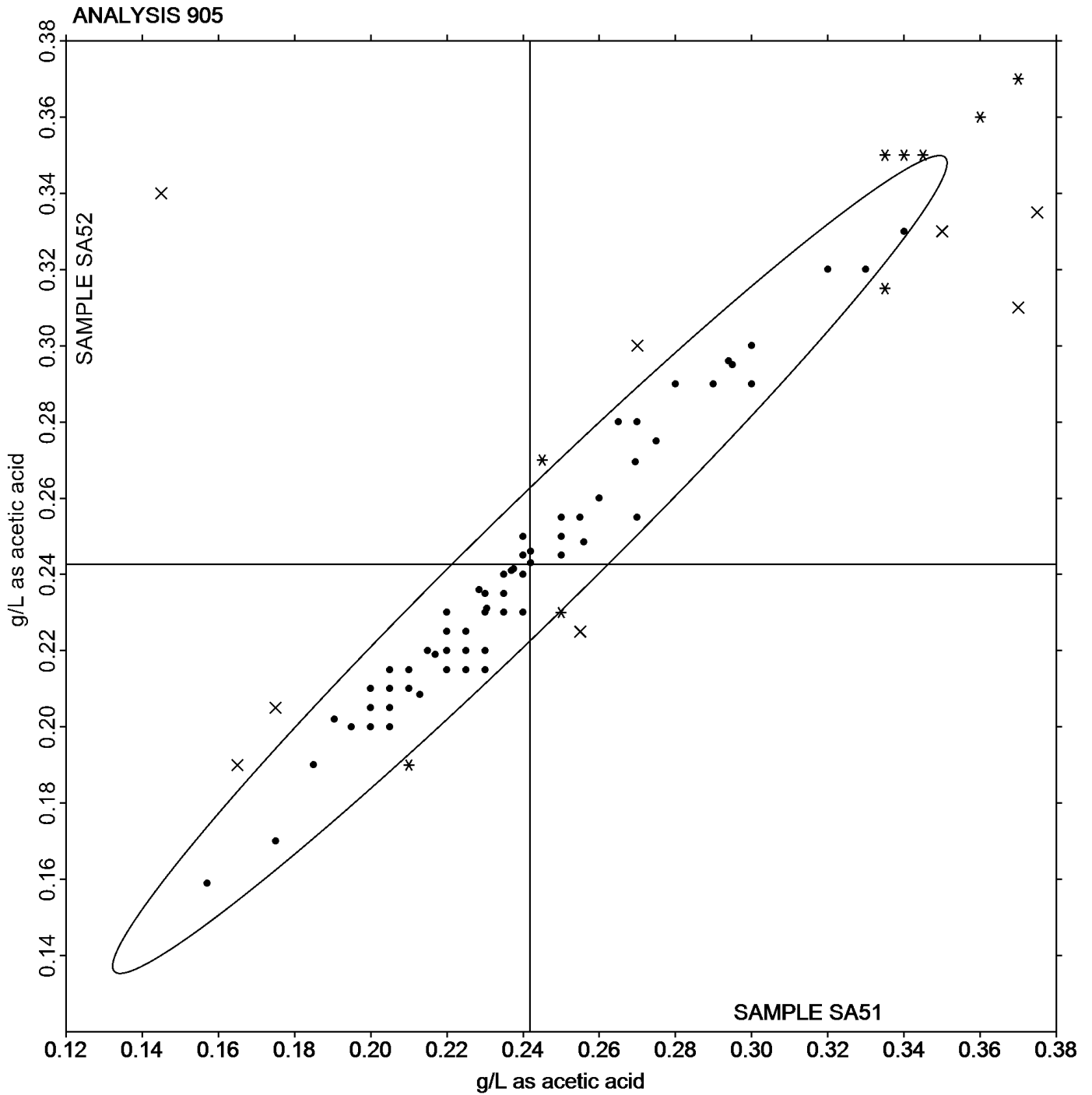
**Analysis 905  
Volatile Acidity**

**Results by Methodology (as reported by laboratory)**

Test Methodology	Sample SA51 <i>Pink Moscato</i>			Sample SA52 <i>Pink Moscato</i>			Labs Incl / Rpt
	Group Mean	Btwn Lab STD	Diff from GM	Group Mean	Btwn Lab STD	Diff from GM	
Please specify method	0.200	0.000	-0.0418	0.200	0.000	-0.0426	1/2
Cash Still method	0.325	0.058	0.0832	0.319	0.062	0.0764	5/7
Enzymatic method	0.227	0.027	-0.0145	0.228	0.026	-0.0147	72/78
GC							0/1
Colorimetric Analysis	0.237	0.016	-0.0044	0.238	0.016	-0.0049	3/3
Seg. Flow / Colorimetric Analyzer	0.338	0.004	0.0957	0.350	0.000	0.1074	2/3
FTIR	0.284	0.033	0.0418	0.287	0.030	0.0443	11/13



Analysis 905  
Volatile Acidity







Analysis 906  
Specific Gravity

WebCode	Data Flag	Sample SA51			Sample SA52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
23888P		1.021	-0.001	-0.58	1.021	-0.001	-0.70
23QVPJ		1.022	0.001	0.48	1.022	0.000	0.45
2MZQKW		1.021	-0.001	-1.06	1.021	-0.001	-0.84
2UXHTQ		1.022	0.001	0.52	1.022	0.000	0.34
2XXQXZ		1.020	-0.001	-1.20	1.020	-0.002	-1.45
3BZJ3H		1.022	0.000	0.31	1.022	0.000	0.39
3VLET4		1.020	-0.002	-1.55	1.020	-0.002	-1.74
44V373		1.023	0.001	1.30	1.023	0.001	1.40
4D28UD		1.020	-0.001	-1.29	1.020	-0.002	-1.55
4ET4J8		1.025	0.003	2.69	1.025	0.003	2.80
4HV2UY		1.023	0.001	1.00	1.023	0.001	0.90
4ULXUC		1.022	0.000	0.37	1.022	0.001	0.55
6LR6YR		1.022	0.000	0.39	1.022	0.000	0.29
6P9DMQ		1.019	-0.003	-2.43	1.019	-0.003	-2.39
789M43		1.023	0.001	0.70	1.022	0.001	0.57
7K9LRY	X	1.016	-0.005	-4.81	1.022	0.000	0.05
7N8YD4		1.022	0.001	0.52	1.022	0.000	0.43
7TM823		1.022	0.001	0.45	1.022	0.000	0.36
86EFYV	X	0.942	-0.080	-70.31	0.997	-0.025	-23.36
8E44WJ		1.023	0.001	0.65	1.023	0.001	0.62
8FWWR3		1.021	-0.001	-1.02	1.021	-0.001	-1.17
96UYJT		1.022	0.001	0.52	1.022	0.000	0.41
9EY7YT		1.022	0.000	0.21	1.022	0.000	0.15
9HXHUT		1.021	-0.001	-0.67	1.021	-0.001	-0.79
9MREJJ		1.022	0.000	0.21	1.022	0.000	0.15
9ZDQVT		1.022	0.001	0.50	1.022	0.000	0.39
A8VJJX		1.019	-0.003	-2.25	1.019	-0.003	-2.58
AC88KU		1.022	0.000	0.04	1.022	0.000	-0.04
AN3G6H		1.022	0.001	0.53	1.023	0.001	0.78
BLRXJR		1.022	0.001	0.48	1.022	0.000	0.43
BP6XGJ	X	1.019	-0.002	-2.08	1.026	0.004	3.54
BYFZ3K		1.022	0.000	-0.05	1.022	0.000	-0.23
CENB6X		1.023	0.001	1.15	1.023	0.001	1.29
CFFAJV		1.021	-0.001	-1.11	1.020	-0.001	-1.31
DBJ64W		1.022	0.001	0.52	1.022	0.001	0.53



**ASEV-CTS Wine Industry Interlaboratory Testing Program**

**Report #076  
Spring 2024**

**Analysis 906  
Specific Gravity**

WebCode	Data Flag	Sample SA51			Sample SA52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
DN936U		1.022	0.001	0.52	1.022	0.000	0.40
DYT94J		1.022	0.001	0.62	1.022	0.000	0.40
EJVJMD		1.022	0.000	0.39	1.022	0.001	0.53
FQAPWP		1.022	0.001	0.56	1.022	0.001	0.49
FQNB9C		1.022	0.000	0.43	1.022	0.000	0.43
GLR7TD		1.022	0.001	0.49	1.023	0.001	0.91
GNXA23	X	1.017	-0.005	-4.34	1.020	-0.002	-2.02
H2K23H		1.023	0.001	0.87	1.022	0.000	0.39
H3CXRC		1.022	0.001	0.56	1.023	0.001	1.19
H7C9LR		1.023	0.001	0.73	1.023	0.001	0.66
HP827P		1.023	0.001	0.97	1.023	0.001	0.91
HT6EUE		1.021	-0.001	-1.02	1.021	-0.001	-1.12
JY8NZ8		1.020	-0.001	-1.28	1.020	-0.002	-1.46
JZKK4Q		1.023	0.001	1.18	1.023	0.001	1.14
KXRNEW		1.022	0.001	0.46	1.022	0.000	0.26
LBUWAK		1.022	0.000	0.12	1.022	0.000	0.15
LYJ64Y		1.022	0.001	0.63	1.023	0.001	0.65
M7ENLK		1.022	0.000	-0.23	1.022	0.000	-0.04
M9GMWD		1.022	0.001	0.48	1.022	0.000	0.40
MB9JK8		1.023	0.001	1.09	1.023	0.001	0.90
MDV6DU		1.022	0.001	0.45	1.022	0.000	0.30
MNYFKJ		1.022	0.000	0.21	1.022	0.000	0.15
MREM9J		1.022	0.001	0.57	1.022	0.001	0.58
MVUHLV		1.022	0.001	0.54	1.022	0.001	0.52
NBN6U9		1.023	0.001	1.22	1.023	0.001	0.81
NMJFZU		1.022	0.001	0.56	1.022	0.000	0.24
NQEAXW		1.022	0.000	0.08	1.022	0.000	0.10
P37F8K		1.022	0.000	0.12	1.022	0.000	0.29
PCU7TC		1.021	0.000	-0.32	1.021	0.000	-0.42
QPWYXU		1.022	0.001	0.50	1.022	0.000	0.37
RVGE2R		1.023	0.001	0.65	1.023	0.001	0.62
T2MBND	*	1.026	0.004	3.69	1.026	0.004	3.82
TM3TTN		1.023	0.001	1.22	1.023	0.001	0.81
TRFTPE	X	1.017	-0.005	-4.19	1.016	-0.006	-5.50
TWRGQB		1.022	0.000	0.21	1.022	0.000	0.15



**ASEV-CTS Wine Industry Interlaboratory Testing Program**  
**Analysis 906**  
**Specific Gravity**

**Report #076**  
**Spring 2024**

WebCode	Data Flag	Sample SA51			Sample SA52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
URAXLY		1.021	-0.001	-0.93	1.021	-0.001	-1.08
VG733U		1.023	0.001	0.92	1.023	0.001	0.90
VGQJHW		1.022	0.000	0.39	1.022	0.000	0.34
VQH3W7		1.022	0.001	0.56	1.022	0.001	0.53
VUTCME	X	0.122	-0.900	-792.40	0.122	-0.900	-847.83
VYN4VB		1.022	0.000	0.23	1.022	0.000	0.16
WCQVEV		1.022	0.000	0.36	1.022	0.000	0.31
WEUM79		1.022	0.001	0.47	1.022	0.000	0.40
WMA7Q8	X	0.894	-0.128	-112.87	0.942	-0.080	-75.14
WXBUH6		1.021	-0.001	-0.67	1.021	-0.001	-0.79
X2NUEV	X	1.013	-0.009	-7.87	1.015	-0.006	-6.04
X9AR4J		1.022	0.001	0.56	1.022	0.000	0.43
XN4ECW		1.018	-0.004	-3.53	1.019	-0.003	-3.05
XYYPHH		1.022	0.001	0.45	1.022	0.000	0.34
Y6H8D6		1.022	0.001	0.45	1.022	0.000	0.44
YNYGE7	*	1.020	-0.002	-1.46	1.022	0.000	-0.13
YZRX38		1.022	0.001	0.56	1.022	0.000	0.43
Z874DJ		1.022	0.000	0.08	1.022	0.000	0.15
ZVEFLP	X	1.022	0.001	0.58	1.019	-0.003	-2.99
ZYDQGP		1.022	0.000	0.34	1.022	0.000	0.20

<b>Grand Means</b>		<b>Summary Statistics</b>	
	1.0218 sp gr 20/20 C		1.0218 sp gr 20/20 C
<b>Stnd Dev Btwn Labs</b>	0.0011 sp gr 20/20 C		0.0011 sp gr 20/20 C
<b>Statistics based on 81 of 90 reporting participants</b>			

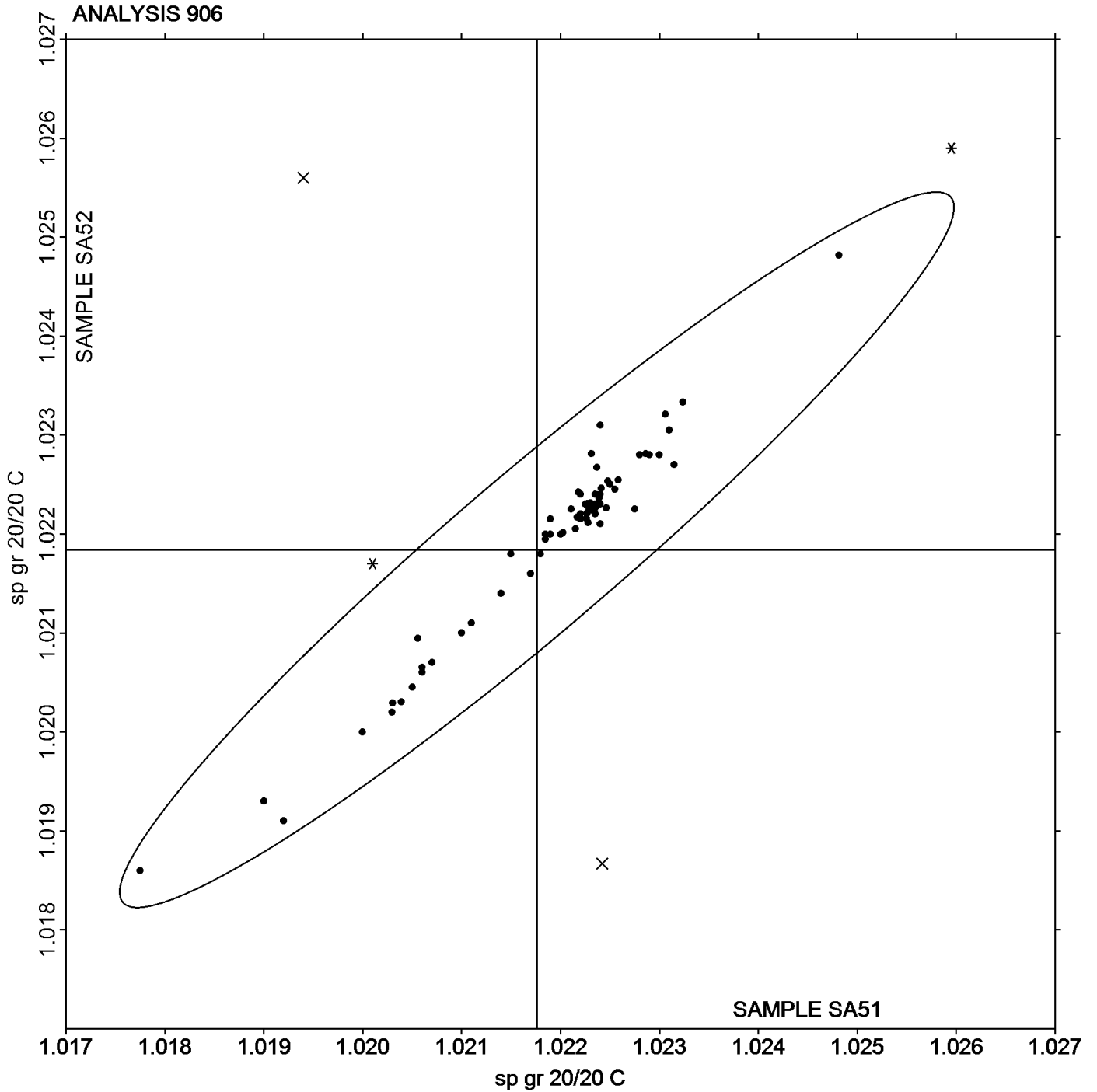
Wines tested: SA51: Pink Moscato; SA52: Pink Moscato



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**Comments on Assigned Data Flags for Test #906**

- GNXA23 (X) - Data for sample SA51 are low. Inconsistent within the determinations of both samples.
- 7K9LRY (X) - Data for sample SA51 are low.
- 86EFYV (X) - Data for both samples are low.
- WMA7Q8 (X) - Data for both samples are low. Inconsistent within the determinations of both samples.
- VUTCME (X) - Extreme data.
- TRFTPE (X) - Data for both samples are low.
- ZVEFLP (X) - Data for sample SA52 are low. Inconsistent within the determinations of sample SA52.
- BP6XGJ (X) - Data for sample SA52 are high. Inconsistent within the determinations of sample SA51.
- X2NUEV (X) - Data for both samples are low. Inconsistent within the determinations of both samples.

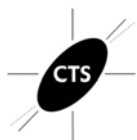




**ASEV-CTS Wine Industry Interlaboratory Testing Program**  
**Analysis 907**  
**pH**

**Report #076**  
**Spring 2024**

WebCode	Data Flag	Sample SA51			Sample SA52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
23888P		3.145	0.010	0.23	3.140	0.007	0.17
23QVPJ	*	3.229	0.094	2.15	3.199	0.066	1.53
2DPNYV		3.170	0.035	0.80	3.160	0.027	0.64
2MZQKW	X	3.085	-0.050	-1.14	3.035	-0.098	-2.26
2UXHTQ	*	3.145	0.010	0.23	3.110	-0.023	-0.52
2XXQXZ		3.130	-0.005	-0.12	3.120	-0.013	-0.29
3BZJ3H		3.140	0.005	0.11	3.130	-0.003	-0.06
3VLET4	X	3.080	-0.055	-1.26	3.120	-0.013	-0.29
44V373		3.110	-0.025	-0.57	3.115	-0.018	-0.41
4D28UD		3.170	0.035	0.80	3.180	0.047	1.10
4ET4J8		3.110	-0.025	-0.57	3.110	-0.023	-0.52
4HV2UY		3.112	-0.023	-0.53	3.106	-0.027	-0.62
4ULXUC		3.110	-0.025	-0.57	3.095	-0.038	-0.87
62Y7VD		3.120	-0.015	-0.34	3.120	-0.013	-0.29
648EZR		3.120	-0.015	-0.34	3.125	-0.008	-0.17
6LR6YR		3.055	-0.080	-1.83	3.055	-0.078	-1.80
6P9DMQ		3.140	0.005	0.11	3.155	0.022	0.52
6ZQUFX		3.130	-0.005	-0.12	3.140	0.007	0.17
789M43		3.115	-0.021	-0.47	3.109	-0.024	-0.56
7K9LRY		3.130	-0.005	-0.12	3.130	-0.003	-0.06
7N8YD4		3.120	-0.015	-0.34	3.100	-0.033	-0.75
7TM823	X	3.115	-0.020	-0.46	3.075	-0.058	-1.34
86EFYV		3.130	-0.005	-0.12	3.120	-0.013	-0.29
8E44WJ		3.205	0.070	1.60	3.220	0.087	2.03
8FWWR3		3.140	0.005	0.11	3.140	0.007	0.17
96UYJT		3.145	0.010	0.23	3.125	-0.008	-0.17
9EY7YT		3.120	-0.015	-0.34	3.110	-0.023	-0.52
9HXHUT		3.120	-0.015	-0.34	3.110	-0.023	-0.52
9MREJJ		3.080	-0.055	-1.26	3.080	-0.053	-1.22
9ZDQVT		3.180	0.045	1.03	3.170	0.037	0.87
A4V9QJ		3.048	-0.087	-1.99	3.048	-0.085	-1.96
A8VJXX		3.155	0.020	0.46	3.155	0.022	0.52
AC88KU	*	3.185	0.050	1.14	3.210	0.077	1.80
AN3G6H		3.113	-0.022	-0.50	3.109	-0.024	-0.55
ATB4GY		3.115	-0.020	-0.46	3.115	-0.018	-0.41



**ASEV-CTS Wine Industry Interlaboratory Testing Program**  
**Analysis 907**  
**pH**

**Report #076**  
**Spring 2024**

WebCode	Data Flag	Sample SA51			Sample SA52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
BLRXJR		3.145	0.010	0.23	3.145	0.012	0.29
BP6XGJ		3.120	-0.015	-0.34	3.120	-0.013	-0.29
BWN4DQ		3.140	0.005	0.11	3.140	0.007	0.17
BYFZ3K		3.135	0.000	0.00	3.130	-0.003	-0.06
CABTNF		3.220	0.085	1.94	3.210	0.077	1.80
CENB6X		3.145	0.010	0.23	3.140	0.007	0.17
CFFAJV		3.150	0.015	0.34	3.135	0.002	0.06
CND3RP		3.150	0.015	0.34	3.140	0.007	0.17
DBJ64W		3.170	0.035	0.80	3.160	0.027	0.64
DN936U		3.185	0.050	1.14	3.175	0.042	0.99
DYT94J		3.200	0.065	1.49	3.200	0.067	1.57
EJVJMD	X	3.080	-0.055	-1.26	3.120	-0.013	-0.29
EUPXKN		3.150	0.015	0.34	3.145	0.012	0.29
FQAPWP		3.150	0.015	0.34	3.140	0.007	0.17
FQNB9C		3.110	-0.025	-0.57	3.130	-0.003	-0.06
G8R6FC		3.150	0.015	0.34	3.150	0.017	0.41
GLCM9F		3.110	-0.025	-0.57	3.095	-0.038	-0.87
GLR7TD	X	2.900	-0.235	-5.38	3.030	-0.103	-2.38
GNXA23	X	3.265	0.130	2.97	3.315	0.182	4.24
H2K23H		3.115	-0.020	-0.46	3.110	-0.023	-0.52
H3CXRC		3.110	-0.025	-0.57	3.100	-0.033	-0.75
H7C9LR		3.110	-0.025	-0.57	3.100	-0.033	-0.75
HP827P		3.155	0.020	0.46	3.140	0.007	0.17
HT6EUE		3.165	0.030	0.69	3.155	0.022	0.52
JQFBW2		3.110	-0.025	-0.57	3.105	-0.028	-0.64
JY8NZ8	*	3.020	-0.115	-2.63	3.020	-0.113	-2.61
JZKK4Q		3.049	-0.086	-1.97	3.057	-0.076	-1.77
K68UN9		3.150	0.015	0.34	3.150	0.017	0.41
KXRNEW		3.085	-0.050	-1.14	3.085	-0.048	-1.10
LBUWAK		3.120	-0.015	-0.34	3.130	-0.003	-0.06
LYJ64Y		3.160	0.025	0.57	3.150	0.017	0.41
M7ENLK		3.065	-0.070	-1.60	3.075	-0.058	-1.34
MB9JK8		3.175	0.040	0.91	3.180	0.047	1.10
MDV6DU		3.147	0.011	0.26	3.147	0.014	0.34
MNYFKJ		3.100	-0.035	-0.80	3.100	-0.033	-0.75



**ASEV-CTS Wine Industry Interlaboratory Testing Program**  
**Analysis 907**  
**pH**

**Report #076**  
**Spring 2024**

WebCode	Data Flag	Sample SA51			Sample SA52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
MREM9J		3.135	0.000	0.00	3.130	-0.003	-0.06
MVUHLV		3.145	0.010	0.23	3.140	0.007	0.17
NBN6U9		3.140	0.005	0.11	3.145	0.012	0.29
NQEAXW	*	3.245	0.110	2.51	3.235	0.102	2.38
P37F8K		3.125	-0.010	-0.23	3.125	-0.008	-0.17
PCU7TC		3.230	0.095	2.17	3.220	0.087	2.03
QPWYXU		3.180	0.045	1.03	3.170	0.037	0.87
R73JBC	*	3.155	0.020	0.46	3.180	0.047	1.10
RD262Q		3.110	-0.025	-0.57	3.110	-0.023	-0.52
RJRH3E		3.130	-0.005	-0.12	3.120	-0.013	-0.29
RVGE2R		3.110	-0.025	-0.57	3.100	-0.033	-0.75
RX8GAZ	*	3.140	0.005	0.11	3.170	0.037	0.87
T2MBND		3.155	0.020	0.46	3.150	0.017	0.41
TM3TTN		3.100	-0.035	-0.80	3.100	-0.033	-0.75
TRFTPE		3.105	-0.030	-0.69	3.095	-0.038	-0.87
TWRGQB		3.145	0.010	0.23	3.155	0.022	0.52
UCFD3Q	*	3.245	0.110	2.51	3.240	0.107	2.50
URAXLY	*	3.240	0.105	2.40	3.220	0.087	2.03
VG733U		3.150	0.015	0.34	3.140	0.007	0.17
VGQJHW	*	3.120	-0.015	-0.34	3.090	-0.043	-0.99
VQH3W7		3.115	-0.020	-0.46	3.110	-0.023	-0.52
VUTCME		3.110	-0.025	-0.57	3.120	-0.013	-0.29
VYN4VB		3.109	-0.026	-0.60	3.108	-0.025	-0.58
WCQVEV		3.139	0.003	0.08	3.137	0.004	0.10
WEUM79	*	3.015	-0.120	-2.75	3.025	-0.108	-2.50
WMA7Q8		3.210	0.075	1.71	3.210	0.077	1.80
WXBUH6	*	3.005	-0.130	-2.97	3.000	-0.133	-3.08
X2NUEV		3.145	0.010	0.23	3.140	0.007	0.17
X9AR4J		3.090	-0.045	-1.03	3.090	-0.043	-0.99
XN4ECW	*	3.126	-0.010	-0.22	3.158	0.025	0.58
XRY7H9		3.165	0.030	0.69	3.170	0.037	0.87
Y6H8D6		3.140	0.005	0.11	3.130	-0.003	-0.06
YNYGE7		3.120	-0.015	-0.34	3.120	-0.013	-0.29
YZRX38		3.175	0.040	0.91	3.170	0.037	0.87
Z874DJ		3.125	-0.010	-0.23	3.120	-0.013	-0.29





**ASEV-CTS Wine Industry Interlaboratory Testing Program**  
**Analysis 907**  
**pH**

**Report #076**  
**Spring 2024**

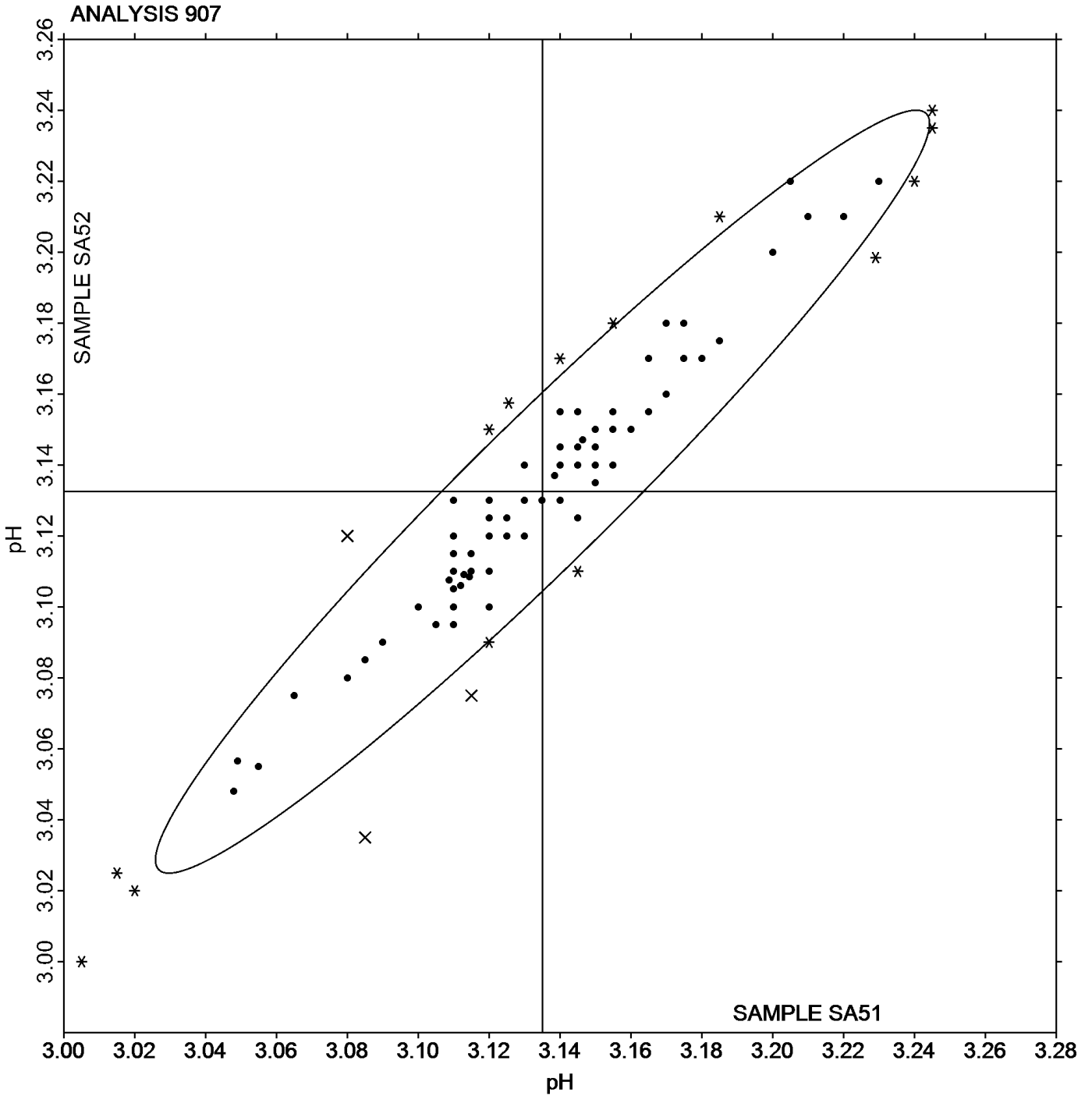
WebCode	Data Flag	Sample SA51			Sample SA52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
ZGTZHQ		3.110	-0.025	-0.57	3.110	-0.023	-0.52
ZVEFLP		3.150	0.015	0.34	3.145	0.012	0.29
ZYDQGP	*	3.120	-0.015	-0.34	3.150	0.017	0.41

<b>Grand Means</b>		<b>Summary Statistics</b>	
	3.1350 pH		3.1325 pH
<b>Std Dev Btwn Labs</b>			0.0431 pH
	0.0437 pH		
<b>Statistics based on 102 of 108 reporting participants</b>			

Wines tested: SA51: Pink Moscato; SA52: Pink Moscato

**Comments on Assigned Data Flags for Test #907**

- GNXA23 (X) - Data for both samples are high. Possible Systematic Error.
- 3VLET4 (X) - Inconsistent in testing between samples.
- 7TM823 (X) - Inconsistent in testing between samples.
- EJVJMD (X) - Inconsistent in testing between samples.
- GLR7TD (X) - Inconsistent in testing, data for sample SA51 are low. Inconsistent within the determinations of sample SA51.
- 2MZQKW (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample SA51.





**ASEV-CTS Wine Industry Interlaboratory Testing Program**  
**Analysis 908**  
**Residual Sugar**

**Report #076**  
**Spring 2024**

WebCode	Data Flag	Sample SA51			Sample SA52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2MZQKW		68.72	2.74	0.65	68.89	2.87	0.73
648EZR	X	66.40	0.42	0.10	71.08	5.06	1.28
7K9LRY		69.50	3.52	0.83	69.20	3.18	0.81
A8VJX		71.75	5.77	1.37	71.40	5.38	1.36
AC88KU	X	91.88	25.90	6.14	91.33	25.31	6.40
BP6XGJ	*	56.65	-9.33	-2.21	55.66	-10.36	-2.62
CABTNF		60.00	-5.98	-1.42	60.69	-5.33	-1.35
DN936U		65.70	-0.28	-0.07	65.60	-0.42	-0.11
EUPXKN		63.61	-2.38	-0.56	63.85	-2.17	-0.55
FQAPWP		67.70	1.72	0.41	67.65	1.63	0.41
HT6EUE		64.85	-1.13	-0.27	65.70	-0.32	-0.08
JY8NZ8		67.00	1.02	0.24	66.50	0.48	0.12
JZKK4Q		63.49	-2.49	-0.59	62.90	-3.12	-0.79
LBUWAK		66.30	0.32	0.08	67.10	1.08	0.27
LYJ64Y		64.70	-1.28	-0.30	65.40	-0.62	-0.16
MVUHLV	*	55.74	-10.24	-2.43	57.36	-8.66	-2.19
NMJFZU		72.00	6.02	1.43	71.00	4.98	1.26
PCU7TC		67.04	1.06	0.25	67.17	1.15	0.29
QPWYXU		67.60	1.62	0.38	68.50	2.48	0.63
RD262Q		67.35	1.37	0.32	65.95	-0.07	-0.02
TWRGQB		71.30	5.32	1.26	70.20	4.18	1.06
UCFD3Q		70.00	4.02	0.95	70.05	4.03	1.02
VYN4VB		61.43	-4.56	-1.08	63.04	-2.98	-0.75
WCQVEV		66.30	0.32	0.08	66.20	0.18	0.05
WMA7Q8		67.45	1.47	0.35	67.35	1.33	0.34
WXBUH6		64.55	-1.43	-0.34	64.30	-1.72	-0.43
ZVEFLP		71.25	5.27	1.25	71.25	5.23	1.32
ZYDQGP		63.60	-2.38	-0.57	63.50	-2.52	-0.64



Analysis 908  
Residual Sugar

Grand Means		Summary Statistics	
	65.984 g/L		66.016 g/L
Std Dev Btwn Labs			
	4.217 g/L		3.952 g/L
<b>Statistics based on 26 of 28 reporting participants</b>			

Wines tested: SA51: Pink Moscato; SA52: Pink Moscato

**Comments on Assigned Data Flags for Test #908**

AC88KU (X) - Data for both samples are high. Possible Systematic Error.

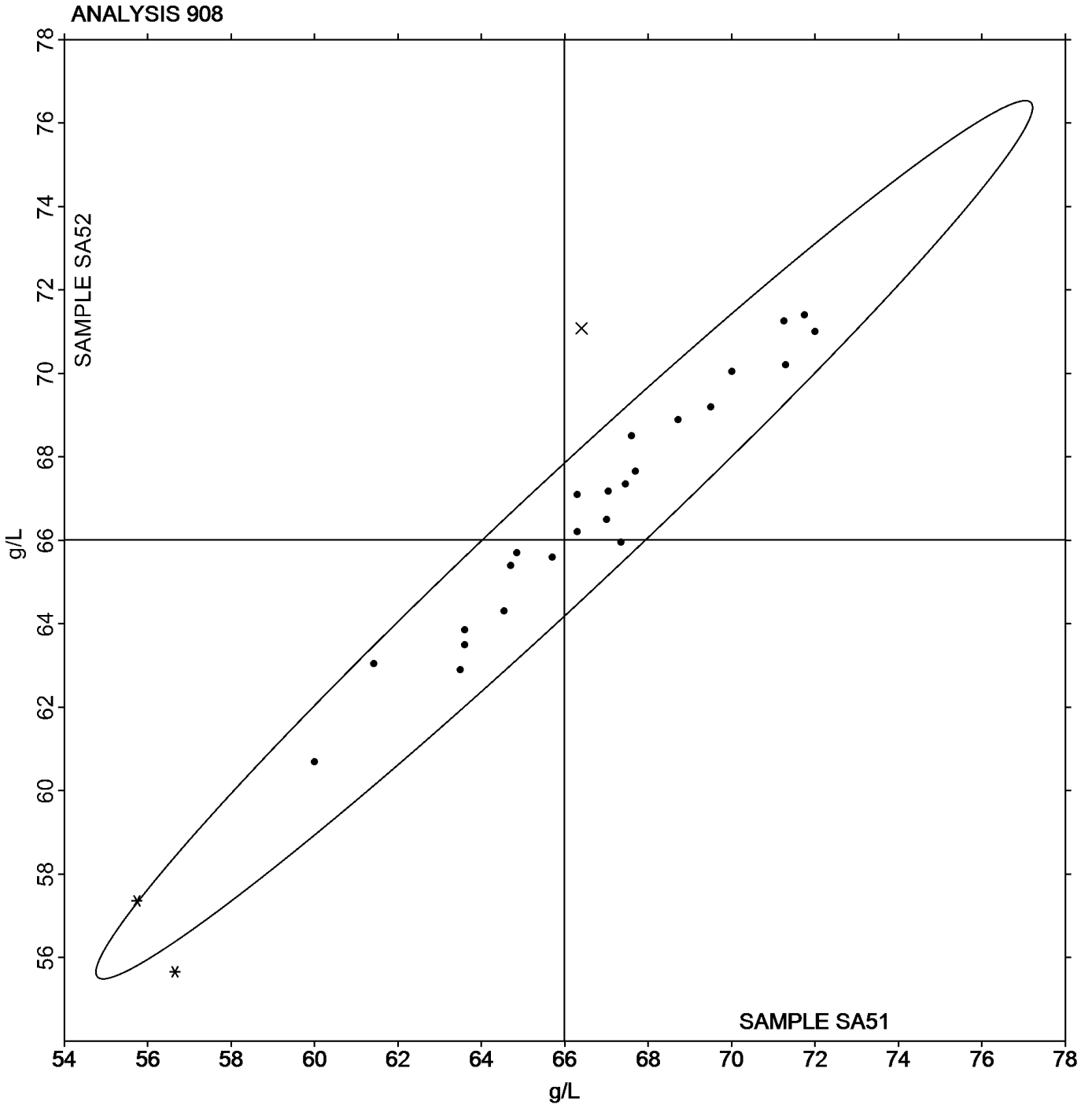
648EZR (X) - Inconsistent in testing between samples.

**Results by Methodology (as reported by laboratory)**

Test Methodology	Sample SA51 <i>Pink Moscato</i>			Sample SA52 <i>Pink Moscato</i>			Labs Incl / Rpt
	Group Mean	Btwn Lab STD	Diff from GM	Group Mean	Btwn Lab STD	Diff from GM	
Please specify method used	64.700	0.000	-1.28	65.400	0.000	-0.62	1/2
Cu Reduction Method	64.952	5.745	-1.03	65.263	5.420	-0.75	3/3
Segmented Flow	69.800	3.111	3.82	69.750	1.768	3.73	2/2
FTIR	66.149	3.936	0.17	66.062	3.911	0.05	13/13
Other	65.211	4.908	-0.77	65.273	4.306	-0.74	7/8



Analysis 908  
Residual Sugar

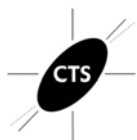




**ASEV-CTS Wine Industry Interlaboratory Testing Program**  
**Analysis 909**  
**L-Malic Acid**

**Report #076**  
**Spring 2024**

WebCode	Data Flag	Sample SA51			Sample SA52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
23888P		2.000	0.046	0.38	1.980	0.052	0.42
23QVPJ		2.056	0.102	0.83	2.043	0.115	0.94
2DPNYV		2.025	0.071	0.58	1.940	0.012	0.10
2MZQKW		2.085	0.131	1.07	2.020	0.092	0.75
2XXQXZ	X	1.945	-0.009	-0.07	1.805	-0.123	-1.02
3BZJ3H		1.807	-0.147	-1.20	1.819	-0.110	-0.90
3VLET4		2.005	0.051	0.42	1.970	0.042	0.34
44V373		2.000	0.046	0.38	1.995	0.067	0.55
4D28UD		1.715	-0.239	-1.95	1.695	-0.233	-1.92
4HV2UY		2.083	0.129	1.06	2.045	0.117	0.96
4ULXUC		2.105	0.151	1.24	2.075	0.146	1.20
62Y7VD		2.072	0.118	0.97	2.035	0.106	0.87
648EZR		2.060	0.106	0.87	1.970	0.042	0.34
6P9DMQ	*	2.020	0.066	0.54	1.890	-0.038	-0.32
6ZQUFX	X	2.038	0.084	0.69	2.131	0.202	1.66
789M43		1.845	-0.109	-0.89	1.893	-0.035	-0.29
7K9LRY	X	1.460	-0.494	-4.03	1.500	-0.428	-3.53
7N8YD4		1.935	-0.019	-0.15	1.860	-0.068	-0.56
7TM823		1.930	-0.024	-0.19	1.870	-0.058	-0.48
86EFYV		1.903	-0.051	-0.41	1.918	-0.010	-0.09
8E44WJ		1.920	-0.034	-0.27	1.910	-0.018	-0.15
8FWWR3		1.905	-0.049	-0.40	1.865	-0.063	-0.52
96UYJT		1.850	-0.104	-0.84	1.820	-0.108	-0.89
9EY7YT		1.910	-0.044	-0.36	1.909	-0.020	-0.16
9HXHUT	X	1.740	-0.214	-1.74	1.855	-0.073	-0.60
9MREJJ		1.965	0.011	0.09	1.935	0.007	0.05
9ZDQVT		2.075	0.121	0.99	2.035	0.107	0.88
AC88KU	X	1.115	-0.839	-6.84	1.780	-0.148	-1.22
AN3G6H		1.910	-0.044	-0.36	1.920	-0.008	-0.07
ATB4GY		2.105	0.151	1.24	2.100	0.172	1.41
BLRXJR		1.974	0.020	0.16	1.944	0.015	0.12
BP6XGJ		1.960	0.006	0.05	1.960	0.032	0.26
BWN4DQ	X	2.415	0.461	3.76	2.370	0.442	3.63
BYFZ3K		2.082	0.128	1.05	2.044	0.115	0.95
CABTNF		1.810	-0.144	-1.17	1.730	-0.198	-1.63



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

**Report #076**  
**Spring 2024**

WebCode	Data Flag	Sample SA51			Sample SA52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
CENB6X		1.925	-0.029	-0.23	1.940	0.012	0.10
CFFAJV		1.885	-0.069	-0.56	1.910	-0.018	-0.15
CND3RP		1.880	-0.074	-0.60	1.850	-0.078	-0.64
DBJ64W		2.075	0.121	0.99	2.090	0.162	1.33
DN936U		2.090	0.136	1.11	2.050	0.122	1.00
DYT94J		1.910	-0.044	-0.36	1.875	-0.053	-0.44
FQAPWP		1.875	-0.079	-0.64	1.890	-0.038	-0.32
G8R6FC		1.970	0.016	0.13	1.950	0.022	0.18
GLCM9F	X	3.730	1.776	14.49	3.685	1.757	14.46
GNXA23		2.180	0.226	1.85	2.125	0.197	1.62
H2K23H		1.975	0.021	0.17	1.925	-0.003	-0.03
H7C9LR		1.880	-0.074	-0.60	1.795	-0.133	-1.10
HP827P		2.040	0.086	0.71	1.990	0.062	0.51
HT6EUE		1.755	-0.199	-1.62	1.740	-0.188	-1.55
JQFBW2		1.710	-0.244	-1.99	1.670	-0.258	-2.13
JZKK4Q		1.965	0.011	0.09	2.000	0.072	0.59
K68UN9		1.775	-0.179	-1.46	1.750	-0.178	-1.47
KXRNEW		2.010	0.056	0.46	2.000	0.072	0.59
LBUWAK		1.950	-0.004	-0.03	1.930	0.002	0.01
LYJ64Y		1.977	0.023	0.19	1.963	0.034	0.28
M7ENLK		1.967	0.013	0.11	1.957	0.028	0.23
MB9JK8		2.050	0.096	0.79	1.970	0.042	0.34
MDV6DU		2.132	0.178	1.46	2.065	0.137	1.12
MNYFKJ		2.054	0.100	0.82	2.024	0.096	0.79
MREM9J		1.745	-0.209	-1.70	1.765	-0.163	-1.34
MVUHLV		1.800	-0.154	-1.25	1.785	-0.143	-1.18
NBN6U9		1.975	0.021	0.17	1.960	0.032	0.26
NQEAXW		2.090	0.136	1.11	2.035	0.107	0.88
P37F8K		1.964	0.010	0.09	1.978	0.050	0.41
R73JBC		1.910	-0.044	-0.36	1.882	-0.046	-0.38
RD262Q	X	1.450	-0.504	-4.11	1.400	-0.528	-4.35
RJRH3E		1.760	-0.194	-1.58	1.740	-0.188	-1.55
RVGE2R		2.055	0.101	0.83	1.988	0.059	0.49
RX8GAZ		2.010	0.056	0.46	1.970	0.042	0.34
T2MBND		1.905	-0.049	-0.40	1.910	-0.018	-0.15



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

**Report #076**  
**Spring 2024**

WebCode	Data Flag	Sample SA51			Sample SA52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
TM3TTN		1.935	-0.019	-0.15	1.940	0.012	0.10
TRFTPE	*	1.590	-0.364	-2.97	1.555	-0.373	-3.07
TWRGQB		1.780	-0.174	-1.42	1.800	-0.128	-1.06
UCFD3Q		2.104	0.150	1.22	2.071	0.142	1.17
URAXLY		1.890	-0.064	-0.52	1.885	-0.043	-0.36
VG733U		1.800	-0.154	-1.25	1.766	-0.163	-1.34
VGQJHW	*	1.985	0.031	0.26	2.055	0.127	1.04
VQH3W7		2.027	0.073	0.60	2.059	0.131	1.08
VUTCME		1.802	-0.152	-1.24	1.763	-0.166	-1.36
VYN4VB		1.913	-0.041	-0.33	1.913	-0.016	-0.13
WCQVEV	*	2.250	0.296	2.42	2.260	0.332	2.73
WMA7Q8	X	1.240	-0.714	-5.82	1.245	-0.683	-5.62
WXBUH6		1.705	-0.249	-2.03	1.665	-0.263	-2.17
X2NUEV		2.007	0.053	0.44	1.989	0.060	0.49
X9AR4J		2.000	0.046	0.38	1.975	0.047	0.38
XN4ECW		1.820	-0.134	-1.09	1.785	-0.143	-1.18
XRY7H9		2.010	0.056	0.46	2.010	0.082	0.67
Y6H8D6		1.998	0.044	0.36	1.962	0.033	0.27
YNYGE7		2.040	0.086	0.71	2.015	0.087	0.71
YZRX38		2.085	0.131	1.07	2.065	0.137	1.12
Z874DJ		2.111	0.157	1.28	2.075	0.147	1.21
ZGTZHQ		2.080	0.126	1.03	1.980	0.052	0.42
ZVEFLP	X	1.385	-0.569	-4.64	1.370	-0.558	-4.59
ZYDQGP		1.815	-0.139	-1.13	1.740	-0.188	-1.55

Grand Means		Summary Statistics	
	1.9536 g/L		1.9284 g/L
Std Dev Btwn Labs			0.1215 g/L
	0.1226 g/L		
<b>Statistics based on 84 of 94 reporting participants</b>			

Wines tested: SA51: Pink Moscato; SA52: Pink Moscato





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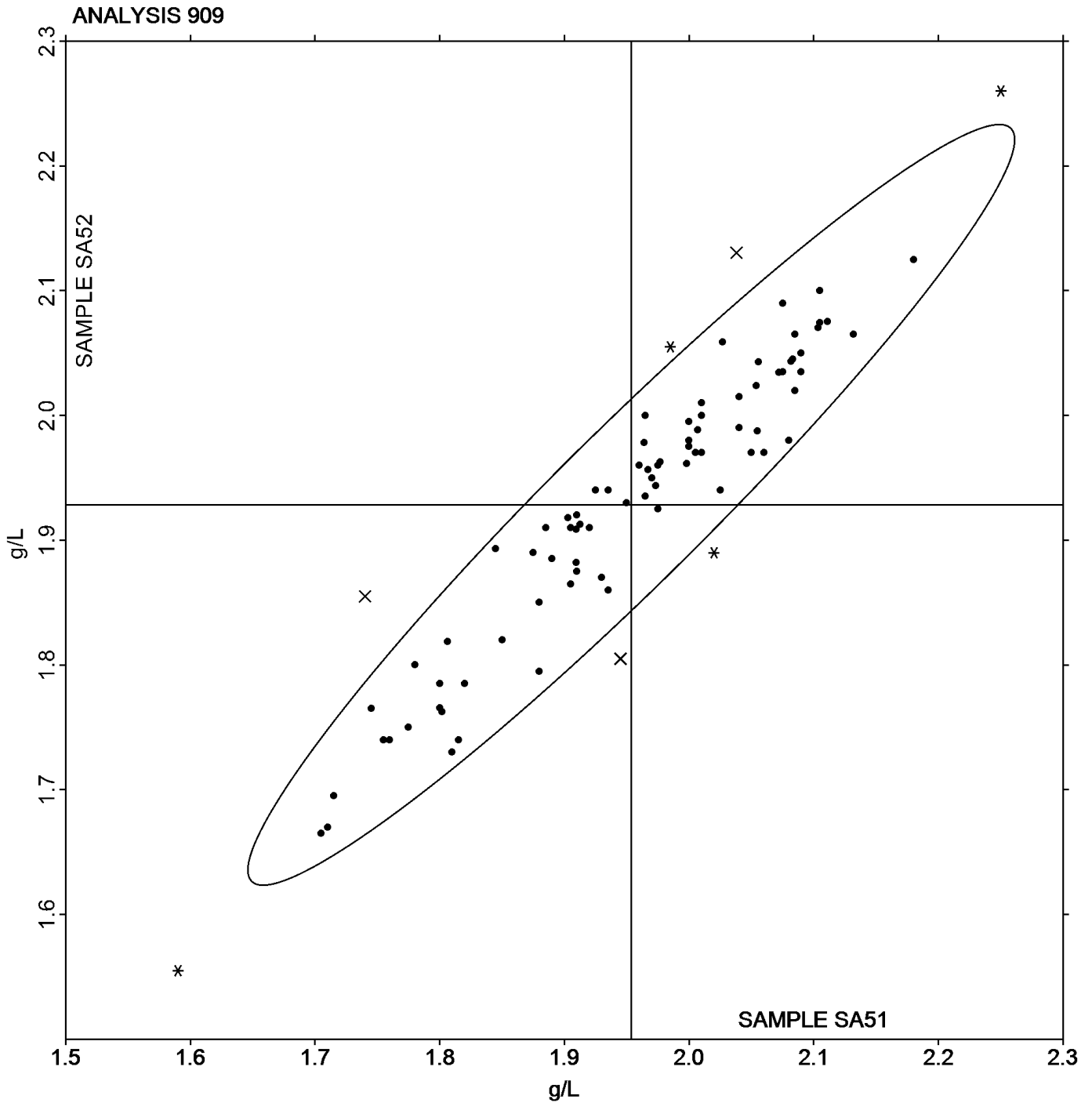
**Comments on Assigned Data Flags for Test #909**

- RD262Q (X) - Data for both samples are low. Possible Systematic Error.
- 2XXQXZ (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample SA52.
- 9HXHUT (X) - Inconsistent in testing between samples.
- 6ZQUFX (X) - Inconsistent in testing between samples.
- BWN4DQ (X) - Data for both samples are high. Possible Systematic Error. Inconsistent within the determinations of both samples.
- 7K9LRY (X) - Data for both samples are low. Possible Systematic Error.
- WMA7Q8 (X) - Data for both samples are low. Possible Systematic Error.
- AC88KU (X) - Inconsistent in testing, data for sample SA51 are low.
- ZVEFLP (X) - Data for both samples are low. Possible Systematic Error.
- GLCM9F (X) - Data for both samples are high.



Analysis 909

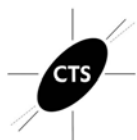
L-Malic Acid





Analysis 910  
Glucose + Fructose

WebCode	Data Flag	Sample SA51			Sample SA52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
23888P		62.70	-3.30	-0.94	63.52	-2.47	-0.68
23QVPJ		69.16	3.16	0.90	70.27	4.28	1.18
2DPNYV		62.80	-3.20	-0.91	61.95	-4.04	-1.11
2MZQKW		68.75	2.75	0.78	67.73	1.74	0.48
2UXHTQ		60.46	-5.54	-1.57	59.53	-6.46	-1.78
2XXQXZ		65.57	-0.43	-0.12	64.00	-1.99	-0.55
3BZJ3H		71.70	5.70	1.62	73.47	7.48	2.06
3VLET4	*	74.37	8.37	2.38	73.38	7.39	2.03
44V373		63.30	-2.70	-0.77	64.75	-1.24	-0.34
4D28UD		70.15	4.15	1.18	69.65	3.66	1.01
4HV2UY		69.41	3.41	0.97	69.74	3.75	1.03
4ULXUC		70.60	4.60	1.31	70.50	4.51	1.24
62Y7VD		70.20	4.20	1.19	69.85	3.86	1.06
648EZR	X	66.40	0.40	0.11	71.00	5.01	1.38
6LR6YR		66.00	0.00	0.00	64.00	-1.99	-0.55
6P9DMQ		68.85	2.85	0.81	68.26	2.27	0.63
6ZQUFX		69.66	3.66	1.04	71.21	5.22	1.44
789M43		64.05	-1.95	-0.55	65.10	-0.89	-0.24
7K9LRY		64.90	-1.10	-0.31	64.50	-1.49	-0.41
7N8YD4	*	61.45	-4.55	-1.29	59.10	-6.89	-1.89
7TM823		64.70	-1.30	-0.37	67.10	1.11	0.31
86EFYV		65.65	-0.35	-0.10	65.65	-0.34	-0.09
8E44WJ		67.05	1.05	0.30	67.15	1.16	0.32
8FWWR3		65.35	-0.65	-0.19	64.26	-1.73	-0.48
96UYJT		65.75	-0.25	-0.07	65.80	-0.19	-0.05
9EY7YT		61.80	-4.20	-1.19	62.40	-3.59	-0.99
9HXHUT		66.15	0.15	0.04	66.30	0.31	0.09
9MREJJ		63.60	-2.40	-0.68	63.55	-2.44	-0.67
9ZDQVT		63.44	-2.56	-0.73	62.90	-3.09	-0.85
A4V9QJ		67.00	1.00	0.28	67.00	1.01	0.28
A8VJJX		65.80	-0.20	-0.06	65.50	-0.49	-0.13
AC88KU	X	91.88	25.88	7.35	91.33	25.34	6.97
AN3G6H		67.45	1.45	0.41	66.85	0.86	0.24
ATB4GY		66.16	0.16	0.04	66.21	0.22	0.06
BLRXJR		66.80	0.80	0.23	66.80	0.81	0.22



**ASEV-CTS Wine Industry Interlaboratory Testing Program**

**Report #076  
Spring 2024**

**Analysis 910  
Glucose + Fructose**

WebCode	Data Flag	Sample SA51			Sample SA52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
BP6XGJ		62.18	-3.82	-1.08	62.84	-3.15	-0.87
BWN4DQ	*	55.00	-11.00	-3.12	55.00	-10.99	-3.02
BYFZ3K		65.35	-0.65	-0.19	63.80	-2.19	-0.60
CENB6X		63.80	-2.20	-0.62	63.45	-2.54	-0.70
CFFAJV		61.36	-4.64	-1.32	61.59	-4.40	-1.21
CND3RP		67.25	1.25	0.36	65.65	-0.34	-0.09
DBJ64W		69.45	3.45	0.98	68.62	2.63	0.72
DN936U		65.45	-0.55	-0.16	65.90	-0.09	-0.02
DYT94J		63.84	-2.16	-0.61	65.36	-0.63	-0.17
EJVJMD		61.10	-4.90	-1.39	61.05	-4.94	-1.36
FQAPWP		65.25	-0.75	-0.21	65.20	-0.79	-0.22
FQNB9C		59.48	-6.52	-1.85	59.64	-6.35	-1.75
G8R6FC		66.00	0.00	0.00	66.00	0.01	0.00
GLCM9F		68.15	2.15	0.61	68.50	2.51	0.69
GNXA23		69.94	3.94	1.12	68.97	2.98	0.82
H2K23H	X	109.20	43.20	12.27	63.90	-2.09	-0.57
H3CXRC	X	17.22	-48.78	-13.85	18.48	-47.51	-13.07
H7C9LR	X	35.15	-30.85	-8.76	33.70	-32.29	-8.88
HP827P		66.35	0.35	0.10	65.35	-0.64	-0.17
HT6EUE		64.85	-1.15	-0.33	65.70	-0.29	-0.08
JQFBW2		65.85	-0.15	-0.04	65.70	-0.29	-0.08
JZKK4Q		63.49	-2.51	-0.71	62.90	-3.09	-0.85
K68UN9	X	79.60	13.60	3.86	78.75	12.76	3.51
KXRNEW		66.10	0.10	0.03	66.10	0.11	0.03
LBUWAK		66.00	0.00	0.00	67.10	1.11	0.31
LYJ64Y		64.70	-1.30	-0.37	65.40	-0.59	-0.16
M7ENLK	*	62.66	-3.34	-0.95	60.02	-5.97	-1.64
MDV6DU		67.45	1.45	0.41	67.89	1.90	0.52
MNYFKJ		71.80	5.80	1.65	71.00	5.01	1.38
MREM9J		63.20	-2.80	-0.79	64.20	-1.79	-0.49
NBN6U9		66.81	0.81	0.23	67.37	1.38	0.38
NMJFZU	X	23.00	-43.00	-12.21	23.00	-42.99	-11.83
NQEAXW		62.71	-3.29	-0.93	61.55	-4.44	-1.22
P37F8K		64.90	-1.10	-0.31	66.00	0.01	0.00
PCU7TC		65.97	-0.03	-0.01	66.03	0.04	0.01



**ASEV-CTS Wine Industry Interlaboratory Testing Program**  
**Analysis 910**  
**Glucose + Fructose**

**Report #076**  
**Spring 2024**

WebCode	Data Flag	Sample SA51			Sample SA52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
QPWYXU		67.60	1.60	0.46	68.50	2.51	0.69
R73JBC		64.33	-1.67	-0.47	62.21	-3.78	-1.04
RD262Q		67.35	1.35	0.38	65.95	-0.04	-0.01
RJRH3E		72.80	6.80	1.93	72.30	6.31	1.74
RVGE2R		63.10	-2.90	-0.82	63.00	-2.99	-0.82
RX8GAZ		65.40	-0.60	-0.17	66.20	0.21	0.06
T2MBND		59.60	-6.40	-1.82	59.90	-6.09	-1.67
TM3TTN		65.50	-0.50	-0.14	66.30	0.31	0.09
TRFTPE	X	12.45	-53.55	-15.21	12.20	-53.79	-14.80
TWRGQB		74.45	8.45	2.40	74.75	8.76	2.41
UCFD3Q		69.95	3.95	1.12	70.05	4.06	1.12
URAXLY		63.52	-2.48	-0.71	64.86	-1.13	-0.31
VG733U		63.10	-2.90	-0.82	64.90	-1.09	-0.30
VGQJHW		60.64	-5.36	-1.52	60.31	-5.68	-1.56
VQH3W7		65.65	-0.35	-0.10	65.90	-0.09	-0.02
VUTCME		65.48	-0.52	-0.15	65.57	-0.42	-0.11
VYN4VB		61.43	-4.57	-1.30	63.04	-2.95	-0.81
WCQVEV		63.08	-2.92	-0.83	64.28	-1.71	-0.47
WEUM79		70.58	4.58	1.30	71.48	5.49	1.51
WMA7Q8	*	71.87	5.87	1.67	74.02	8.03	2.21
WXBUH6	X	38.75	-27.25	-7.74	38.75	-27.24	-7.49
X2NUEV		68.67	2.67	0.76	69.32	3.33	0.92
X9AR4J		71.30	5.30	1.51	70.60	4.61	1.27
XN4ECW	X	17.45	-48.55	-13.79	17.61	-48.38	-13.31
XRY7H9		63.60	-2.40	-0.68	63.85	-2.14	-0.59
XYYPHH	*	69.05	3.05	0.87	66.30	0.31	0.09
Y6H8D6		64.58	-1.42	-0.40	63.09	-2.90	-0.80
YNYGE7		67.70	1.70	0.48	68.65	2.66	0.73
YZRX38		63.90	-2.10	-0.60	63.95	-2.04	-0.56
Z874DJ		71.50	5.50	1.56	70.80	4.81	1.32
ZGTZHQ		66.35	0.35	0.10	66.30	0.31	0.09
ZVEFLP	X	70.86	4.86	1.38	64.61	-1.38	-0.38
ZYDQGP		72.55	6.55	1.86	72.55	6.56	1.81



Grand Means		Summary Statistics	
	65.998 g/L		65.986 g/L
Std Dev Btwn Labs			
	3.521 g/L		3.634 g/L
<b>Statistics based on 92 of 103 reporting participants</b>			

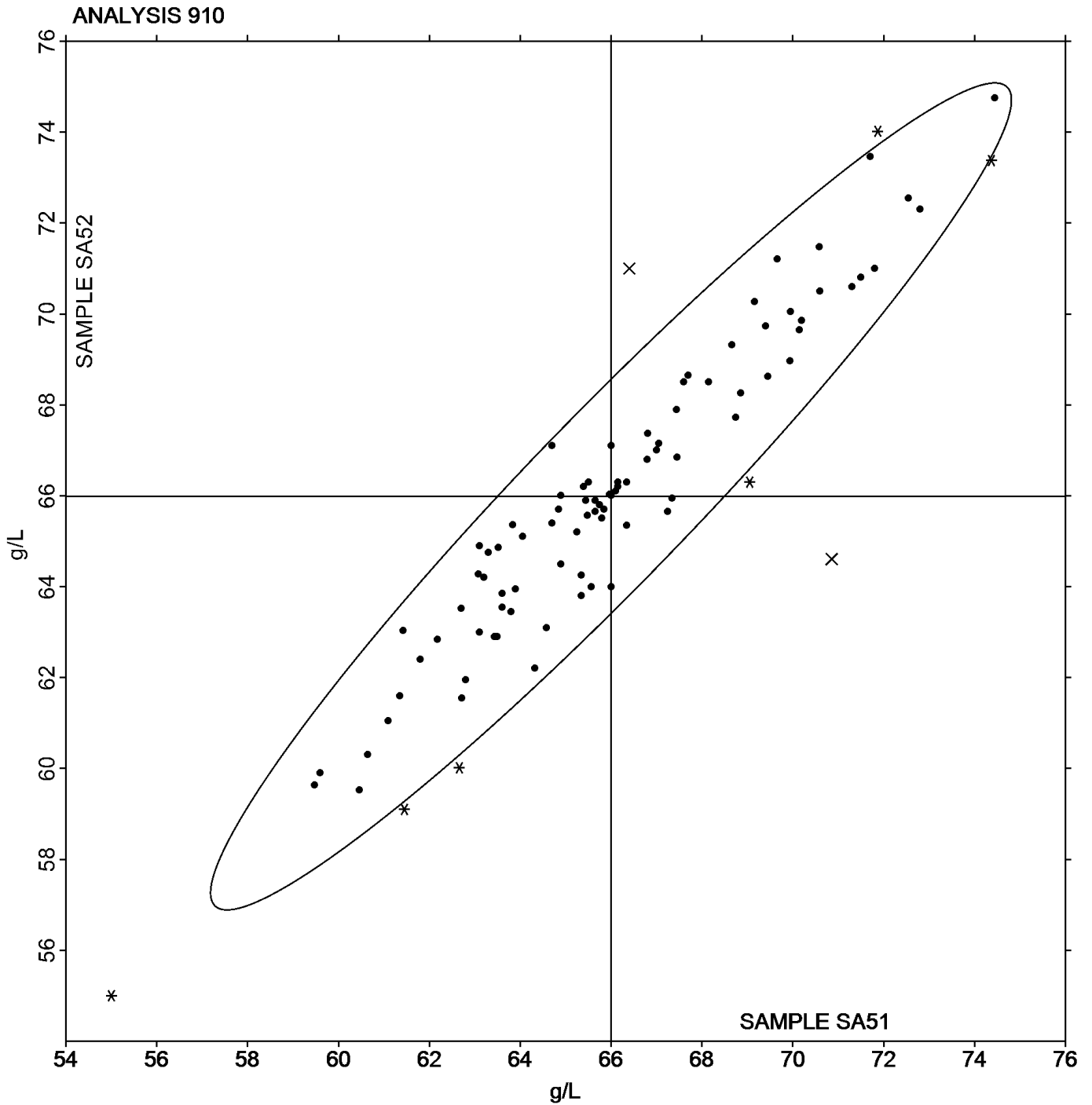
Wines tested: SA51: Pink Moscato; SA52: Pink Moscato

**Comments on Assigned Data Flags for Test #910**

- K68UN9 (X) - Data for both samples are high. Possible Systematic Error.
- NMJFZU (X) - Data for both samples are low.
- H2K23H (X) - Inconsistent in testing, data for sample SA51 are high.
- WXBUH6 (X) - Data for both samples are low. Possible Systematic Error.
- AC88KU (X) - Data for both samples are high. Possible Systematic Error.
- TRFTPE (X) - Data for both samples are low.
- H7C9LR (X) - Data for both samples are low. Possible Systematic Error.
- ZVEFLP (X) - Inconsistent in testing between samples.
- XN4ECW (X) - Data for both samples are low.
- H3CXRC (X) - Data for both samples are low.
- 648EZR (X) - Inconsistent in testing between samples.

**Results by Methodology (as reported by laboratory)**

Test Methodology	Sample SA51 <i>Pink Moscato</i>			Sample SA52 <i>Pink Moscato</i>			Labs Incl / Rpt
	Group Mean	Btwn Lab STD	Diff from GM	Group Mean	Btwn Lab STD	Diff from GM	
Please specify method used	63.835	0.000	-2.16	65.360	0.000	-0.63	1/2
HPLC	69.050	0.000	3.05	66.300	0.000	0.31	1/2
Enzymatic/Spectrophotometric	66.045	3.347	0.05	66.047	3.517	0.06	79/88
Segmented Flow	67.600	0.000	1.60	68.500	0.000	2.51	1/1
FTIR	66.231	5.678	0.23	66.001	5.619	0.01	7/7
Other	63.375	3.411	-2.62	63.613	3.442	-2.37	3/3





**Analysis 911  
Copper Content**

WebCode	Data Flag	Sample SA51			Sample SA52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
23QVPJ		0.1050	-0.0398	-1.27	0.1150	-0.0287	-0.99
3BZJ3H		0.1100	-0.0348	-1.11	0.1100	-0.0337	-1.16
4D28UD		0.1415	-0.0033	-0.11	0.1345	-0.0092	-0.32
4ULXUC		0.1600	0.0152	0.48	0.1600	0.0163	0.56
6LR6YR		0.1070	-0.0378	-1.21	0.1084	-0.0353	-1.21
7K9LRY		0.1500	0.0052	0.16	0.1600	0.0163	0.56
96UYJT		0.1240	-0.0208	-0.66	0.1250	-0.0187	-0.64
9ZDQVT		0.2000	0.0552	1.76	0.1950	0.0513	1.77
BP6XGJ		0.1600	0.0152	0.48	0.1600	0.0163	0.56
DN936U		0.1800	0.0352	1.12	0.1900	0.0463	1.59
FQAPWP		0.1600	0.0152	0.48	0.1600	0.0163	0.56
GNXA23		0.1350	-0.0098	-0.31	0.1300	-0.0137	-0.47
JY8NZ8		0.1250	-0.0198	-0.63	0.1100	-0.0337	-1.16
MDV6DU		0.1475	0.0027	0.09	0.1454	0.0017	0.06
NMJFZU		0.1400	-0.0048	-0.15	0.1400	-0.0037	-0.13
QPWYXU		0.1460	0.0012	0.04	0.1470	0.0033	0.11
RVGE2R	X	0.3000	0.1552	4.95	0.3000	0.1563	5.38
TM3TTN		0.1505	0.0057	0.18	0.1590	0.0153	0.53
UCFD3Q		0.1400	-0.0048	-0.15	0.1300	-0.0137	-0.47
VYN4VB		0.1525	0.0077	0.24	0.1425	-0.0012	-0.04
WCQVEV		0.0650	-0.0798	-2.55	0.0750	-0.0687	-2.36
X2NUEV		0.1465	0.0017	0.05	0.1425	-0.0012	-0.04
YNYGE7		0.1505	0.0057	0.18	0.1490	0.0053	0.18
ZVEFLP	*	0.2200	0.0752	2.40	0.2000	0.0563	1.94
ZYDQGP		0.1600	0.0152	0.48	0.1600	0.0163	0.56

Grand Means	Summary Statistics
0.14483 mg/L	0.14368 mg/L
Std Dev Btwn Labs	0.02907 mg/L
0.03135 mg/L	
<b>Statistics based on 24 of 25 reporting participants</b>	

Wines tested: SA51: Pink Moscato; SA52: Pink Moscato

**Comments on Assigned Data Flags for Test #911**

RVGE2R (X) - Data for both samples are high.





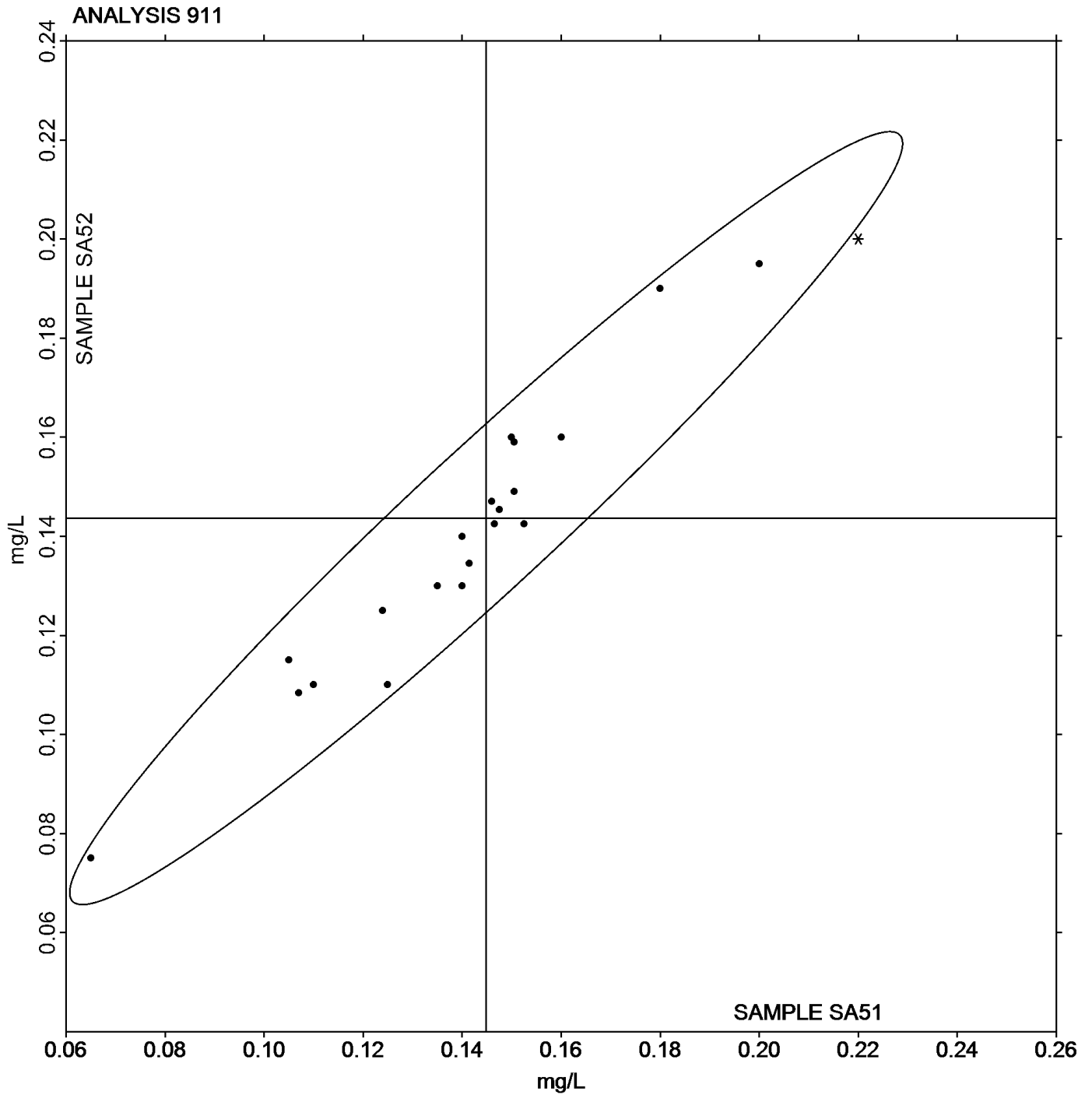
**Analysis 911  
Copper Content**

**Results by Methodology (as reported by laboratory)**

Test Methodology	Sample SA51 <i>Pink Moscato</i>			Sample SA52 <i>Pink Moscato</i>			Labs Incl / Rpt
	Group Mean	Btwn Lab STD	Diff from GM	Group Mean	Btwn Lab STD	Diff from GM	
Please specify method used	0.153	0.000	0.0077	0.143	0.000	-0.0012	1/1
Atomic Absorption Spectroscopy	0.129	0.031	-0.0162	0.128	0.030	-0.0159	11/11
ICP	0.149	0.012	0.0039	0.149	0.012	0.0058	9/9
FTIR	0.220	0.000	0.0752	0.200	0.000	0.0563	1/1
Other	0.200	0.000	0.0552	0.195	0.000	0.0513	1/1
Colorimetric Analysis	0.150	0.000	0.0052	0.160	0.000	0.0163	1/2



Analysis 911  
Copper Content





**ASEV-CTS Wine Industry Interlaboratory Testing Program**  
**Analysis 912**  
**Potassium (K) Content**

**Report #076**  
**Spring 2024**

WebCode	Data Flag	Sample SA51			Sample SA52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
4ULXUC		584.5	-26.8	-0.26	575.5	-25.9	-0.26
648EZR		622.0	10.7	0.11	607.0	5.6	0.05
6LR6YR	*	910.0	298.7	2.94	880.0	278.6	2.74
7K9LRY		591.0	-20.3	-0.20	594.0	-7.4	-0.07
96UYJT		575.0	-36.3	-0.36	565.0	-36.4	-0.36
9ZDQVT		533.0	-78.3	-0.77	525.5	-75.9	-0.75
BP6XGJ		650.6	39.3	0.39	636.2	34.8	0.34
DN936U		556.0	-55.3	-0.54	580.0	-21.4	-0.21
FQAPWP		529.5	-81.8	-0.80	523.0	-78.4	-0.77
GLCM9F		722.0	110.7	1.09	694.5	93.1	0.91
GNXA23	X	2,175.0	1,563.7	15.37	2,775.0	2,173.6	21.37
H2K23H	X	1,235.5	624.2	6.14	1,124.5	523.1	5.14
HP827P	X	178.5	-432.8	-4.25	174.5	-426.9	-4.20
JY8NZ8		526.5	-84.8	-0.83	529.5	-71.9	-0.71
MDV6DU		549.5	-61.8	-0.61	544.5	-56.9	-0.56
MVUHLV		764.0	152.7	1.50	756.5	155.1	1.52
NMJFZU		580.0	-31.3	-0.31	565.0	-36.4	-0.36
RVGE2R		756.5	145.2	1.43	775.5	174.1	1.71
TM3TTN		519.2	-92.1	-0.91	513.2	-88.2	-0.87
TWRGQB	*	505.0	-106.3	-1.04	444.0	-157.4	-1.55
WCQVEV		553.4	-57.9	-0.57	546.6	-54.9	-0.54
XYYPHH		560.5	-50.8	-0.50	552.3	-49.1	-0.48
YNYGE7		663.5	52.2	0.51	648.0	46.6	0.46
ZYDQGP		585.5	-25.8	-0.25	574.5	-26.9	-0.26

Grand Means		Summary Statistics	
	611.29 mg/L		601.44 mg/L
Std Dev Btwn Labs			101.71 mg/L
	101.73 mg/L		
<b>Statistics based on 21 of 24 reporting participants</b>			

Wines tested: SA51: Pink Moscato; SA52: Pink Moscato



**Comments on Assigned Data Flags for Test #912**

GNXA23 (X) - Data for both samples are high. Inconsistent within the determinations of both samples.

H2K23H (X) - Data for both samples are high. Inconsistent within the determinations of sample SA52.

HP827P (X) - Data for both samples are low.

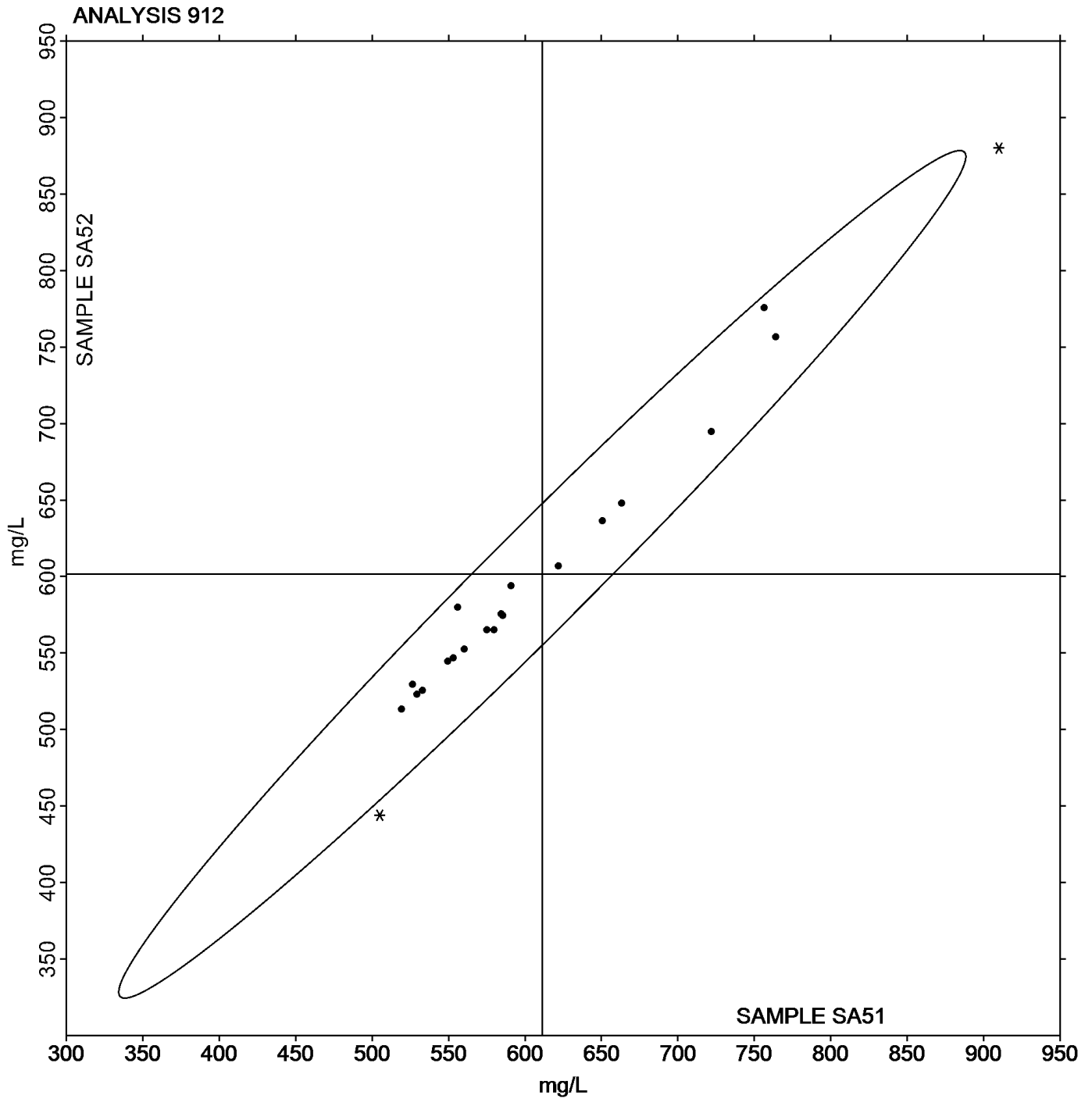
**Results by Methodology (as reported by laboratory)**

Test Methodology	Sample SA51 <i>Pink Moscato</i>			Sample SA52 <i>Pink Moscato</i>			Labs Incl / Rpt
	Group Mean	Btwn Lab STD	Diff from GM	Group Mean	Btwn Lab STD	Diff from GM	
Please specify method used	563.500	82.731	-47.8	525.500	115.258	-75.9	2/2
Atomic Absorption Spectroscopy	569.386	47.304	-41.9	568.916	41.769	-32.5	5/6
ICP	573.331	44.517	-38.0	563.587	41.303	-37.9	8/8
Other	732.250	155.358	121.0	714.125	147.507	112.7	4/6
Colorimetric Analysis	673.750	117.026	62.5	684.750	128.340	83.3	2/2



Analysis 912

Potassium (K) Content



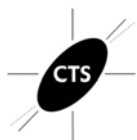


# ASEV-CTS Wine Industry Interlaboratory Testing Program

Report #076  
Spring 2024

## Analysis 915 A420nm (1cm path)

WebCode	Data Flag	Sample SA51			Sample SA52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
23QVPJ		0.1982	-0.0007	-0.06	0.1997	-0.0014	-0.12
2DPNYV		0.2100	0.0110	0.95	0.2065	0.0054	0.45
2MZQKW		0.1932	-0.0058	-0.50	0.1989	-0.0022	-0.18
2UXHTQ	X	0.1550	-0.0440	-3.81	0.1650	-0.0361	-2.98
2XXQXZ		0.2020	0.0030	0.26	0.1930	-0.0081	-0.67
3BZJ3H		0.2025	0.0035	0.30	0.2010	-0.0001	-0.01
4D28UD		0.2020	0.0030	0.26	0.1945	-0.0066	-0.54
4ET4J8		0.2030	0.0040	0.35	0.2180	0.0169	1.40
4HV2UY		0.2005	0.0015	0.13	0.2015	0.0004	0.03
4ULXUC		0.1910	-0.0080	-0.69	0.1955	-0.0056	-0.46
648EZR		0.1972	-0.0018	-0.15	0.1974	-0.0037	-0.30
6LR6YR		0.2145	0.0155	1.34	0.2130	0.0119	0.99
7K9LRY		0.2134	0.0144	1.25	0.2122	0.0111	0.92
7N8YD4		0.1835	-0.0155	-1.34	0.1915	-0.0096	-0.79
7TM823		0.1970	-0.0020	-0.17	0.2010	-0.0001	-0.01
8E44WJ		0.2055	0.0065	0.56	0.2085	0.0074	0.61
96UYJT	X	0.1945	-0.0045	-0.39	0.2185	0.0174	1.44
9HXHUT	*	0.2275	0.0285	2.47	0.2320	0.0309	2.56
9ZDQVT		0.2130	0.0140	1.21	0.2165	0.0154	1.27
A4V9QJ		0.2150	0.0160	1.39	0.2170	0.0159	1.32
AN3G6H		0.1790	-0.0200	-1.73	0.1870	-0.0141	-1.16
ATB4GY		0.2210	0.0220	1.91	0.2200	0.0189	1.56
BLRXJR		0.1945	-0.0045	-0.39	0.1935	-0.0076	-0.63
BP6XGJ	X	0.2630	0.0640	5.54	0.2750	0.0739	6.11
BYFZ3K		0.1750	-0.0240	-2.08	0.1795	-0.0216	-1.78
CABTNF		0.2060	0.0070	0.61	0.2180	0.0169	1.40
DN936U		0.1985	-0.0005	-0.04	0.1985	-0.0026	-0.21
EJVJMD	X	0.1325	-0.0665	-5.76	0.1330	-0.0681	-5.63
FQNB9C	X	0.2185	0.0195	1.69	0.1870	-0.0141	-1.16
GLR7TD		0.2017	0.0027	0.23	0.2019	0.0008	0.07
GNXA23	X	0.0850	-0.1140	-9.87	0.0890	-0.1121	-9.27
H7C9LR		0.2070	0.0080	0.69	0.2085	0.0074	0.61
HP827P	X	0.1855	-0.0135	-1.17	0.2425	0.0414	3.42
JQFBW2		0.1955	-0.0035	-0.30	0.1890	-0.0121	-1.00
JY8NZ8		0.2030	0.0040	0.35	0.2070	0.0059	0.49



**ASEV-CTS Wine Industry Interlaboratory Testing Program**  
**Analysis 915**  
**A420nm (1cm path)**

**Report #076**  
**Spring 2024**

WebCode	Data Flag	Sample SA51			Sample SA52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
KXRNEW		0.1970	-0.0020	-0.17	0.2015	0.0004	0.03
LYJ64Y		0.1930	-0.0060	-0.52	0.1890	-0.0121	-1.00
MVUHLV		0.1800	-0.0190	-1.64	0.1800	-0.0211	-1.74
PCU7TC		0.1870	-0.0120	-1.04	0.2030	0.0019	0.16
RJRH3E	X	0.2350	0.0360	3.12	0.2040	0.0029	0.24
RVGE2R	X	0.0475	-0.1515	-13.11	0.0495	-0.1516	-12.53
TM3TTN		0.1950	-0.0040	-0.34	0.1915	-0.0096	-0.79
TRFTPE		0.1985	-0.0005	-0.04	0.1980	-0.0031	-0.25
TWRGQB		0.2000	0.0010	0.09	0.2000	-0.0011	-0.09
VGQJHW		0.2025	0.0035	0.30	0.2035	0.0024	0.20
VUTCME		0.1990	0.0000	0.00	0.2105	0.0094	0.78
VYN4VB		0.2074	0.0084	0.73	0.2151	0.0140	1.16
WCQVEV		0.1925	-0.0065	-0.56	0.2080	0.0069	0.57
WEUM79		0.2125	0.0135	1.17	0.2085	0.0074	0.61
WMA7Q8	X	0.2300	0.0310	2.69	0.2000	-0.0011	-0.09
WXBUH6		0.1800	-0.0190	-1.64	0.1850	-0.0161	-1.33
X9AR4J		0.1755	-0.0235	-2.03	0.1755	-0.0256	-2.11
YNYGE7		0.1890	-0.0100	-0.86	0.1860	-0.0151	-1.25
ZVEFLP		0.2040	0.0050	0.43	0.2070	0.0059	0.49
ZYDQGP		0.1910	-0.0080	-0.69	0.1860	-0.0151	-1.25

Grand Means		Summary Statistics	
	0.19898 Absorbance Units		0.20108 Absorbance Units
<b>Stnd Dev Btwn Labs</b>	0.01155 Absorbance Units		0.01210 Absorbance Units
<b>Statistics based on 45 of 55 reporting participants</b>			

Wines tested: SA51: Pink Moscato; SA52: Pink Moscato

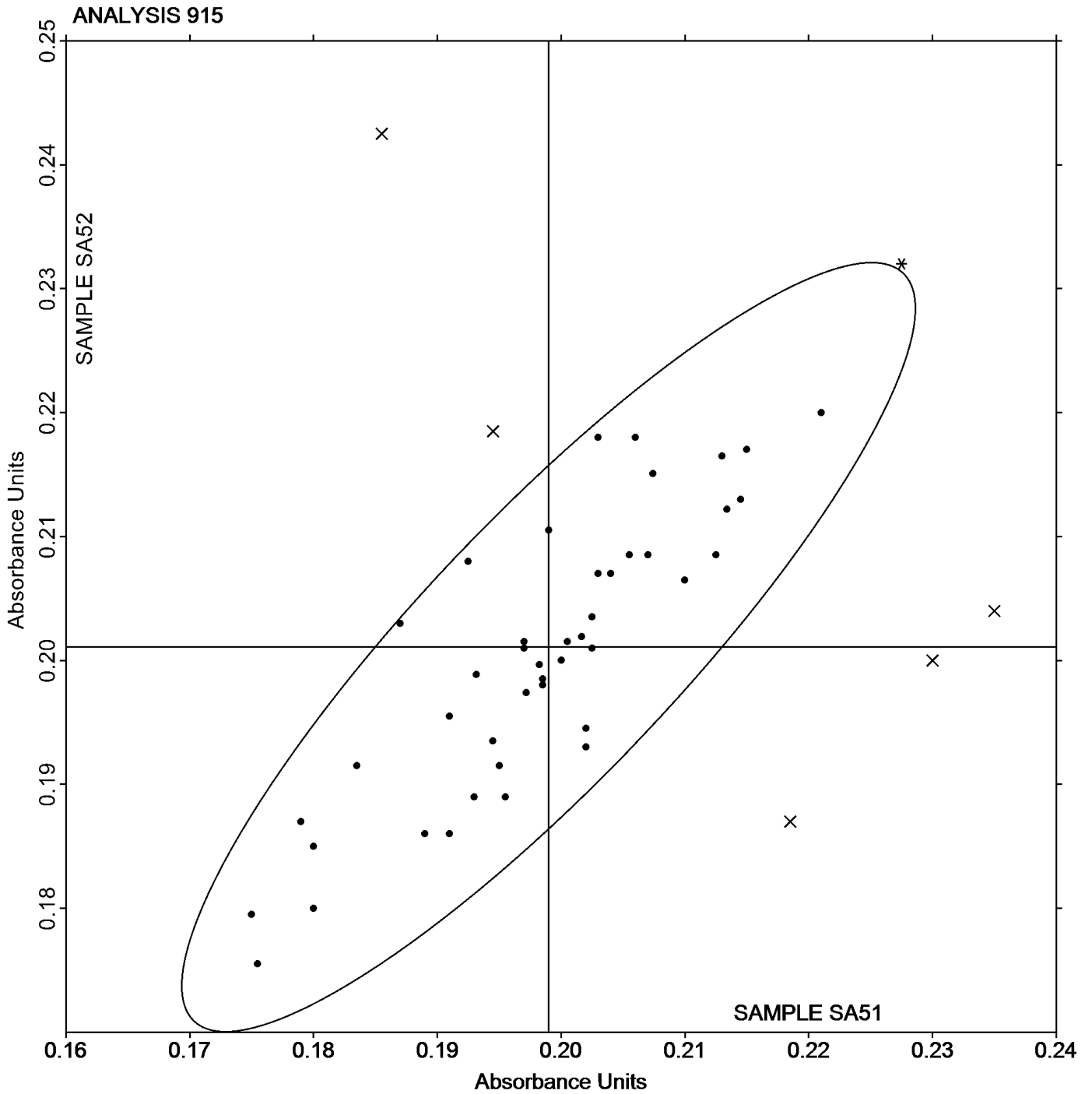


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**Comments on Assigned Data Flags for Test #915**

- RVGE2R (X) - Data for both samples are low.
- GNXA23 (X) - Data for both samples are low.
- 96UYJT (X) - Inconsistent in testing between samples.
- WMA7Q8 (X) - Inconsistent in testing between samples.
- HP827P (X) - Inconsistent in testing, data for sample SA52 are high. Inconsistent within the determinations of both samples.
- RJRH3E (X) - Inconsistent in testing, data for sample SA51 are high.
- 2UXHTQ (X) - Data for both samples are low. Possible Systematic Error.
- EJVJMD (X) - Data for both samples are low. Possible Systematic Error.
- FQNB9C (X) - Inconsistent in testing between samples.
- BP6XGJ (X) - Data for both samples are high.







**ASEV-CTS Wine Industry Interlaboratory Testing Program**

**Report #076**

**Analysis 916**

**Spring 2024**

**A520nm (1cm path)**

WebCode	Data Flag	Sample SA51			Sample SA52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
23QVPJ		0.1436	-0.0012	-0.09	0.1531	0.0002	0.01
2DPNYV		0.1500	0.0051	0.39	0.1570	0.0041	0.30
2MZQKW		0.1442	-0.0007	-0.05	0.1532	0.0003	0.02
2UXHTQ	*	0.1150	-0.0299	-2.24	0.1300	-0.0229	-1.68
2XXQXZ		0.1485	0.0036	0.27	0.1480	-0.0049	-0.36
3BZJ3H		0.1510	0.0061	0.46	0.1560	0.0031	0.23
4D28UD		0.1485	0.0036	0.27	0.1510	-0.0019	-0.14
4ET4J8		0.1440	-0.0009	-0.06	0.1520	-0.0009	-0.07
4HV2UY		0.1460	0.0011	0.09	0.1530	0.0001	0.01
4ULXUC		0.1385	-0.0064	-0.48	0.1500	-0.0029	-0.21
648EZR		0.1575	0.0126	0.95	0.1687	0.0158	1.16
6LR6YR		0.1540	0.0091	0.69	0.1590	0.0061	0.45
7K9LRY		0.1520	0.0071	0.54	0.1572	0.0043	0.32
7N8YD4		0.1375	-0.0074	-0.55	0.1495	-0.0034	-0.25
7TM823		0.1430	-0.0019	-0.14	0.1520	-0.0009	-0.07
8E44WJ		0.1500	0.0051	0.39	0.1580	0.0051	0.37
96UYJT	X	0.1400	-0.0049	-0.37	0.1700	0.0171	1.25
9HXHUT	*	0.1775	0.0326	2.45	0.1925	0.0396	2.90
9ZDQVT		0.1590	0.0141	1.06	0.1690	0.0161	1.18
A4V9QJ		0.1580	0.0131	0.99	0.1670	0.0141	1.03
AN3G6H		0.1355	-0.0094	-0.70	0.1455	-0.0074	-0.54
ATB4GY		0.1670	0.0221	1.66	0.1690	0.0161	1.18
BLRXJR		0.1445	-0.0004	-0.03	0.1505	-0.0024	-0.18
BP6XGJ	X	0.1910	0.0461	3.47	0.2090	0.0561	4.11
BYFZ3K		0.1380	-0.0069	-0.52	0.1440	-0.0089	-0.65
CABTNF		0.1480	0.0031	0.24	0.1660	0.0131	0.96
DN936U		0.1460	0.0011	0.09	0.1535	0.0006	0.04
EJVJMD	*	0.1050	-0.0399	-3.00	0.1150	-0.0379	-2.78
FQNB9C	X	0.1675	0.0226	1.70	0.1335	-0.0194	-1.42
GLR7TD		0.1475	0.0026	0.20	0.1540	0.0011	0.08
GNXA23	X	0.0635	-0.0814	-6.12	0.0705	-0.0824	-6.04
H7C9LR		0.1555	0.0106	0.80	0.1685	0.0156	1.14
HP827P	X	0.1865	0.0416	3.13	0.2615	0.1086	7.96
JQFBW2		0.1315	-0.0134	-1.00	0.1355	-0.0174	-1.27
JY8NZ8		0.1470	0.0021	0.16	0.1580	0.0051	0.37



**ASEV-CTS Wine Industry Interlaboratory Testing Program**  
**Analysis 916**  
**A520nm (1cm path)**

**Report #076**  
**Spring 2024**

WebCode	Data Flag	Sample SA51			Sample SA52		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
KXRNEW		0.1430	-0.0019	-0.14	0.1540	0.0011	0.08
LYJ64Y		0.1445	-0.0004	-0.03	0.1495	-0.0034	-0.25
MVUHLV		0.1370	-0.0079	-0.59	0.1460	-0.0069	-0.50
PCU7TC	*	0.1290	-0.0159	-1.19	0.1480	-0.0049	-0.36
RJRH3E	X	0.1780	0.0331	2.49	0.1520	-0.0009	-0.07
RVGE2R	X	0.0375	-0.1074	-8.07	0.0420	-0.1109	-8.12
TM3TTN		0.1415	-0.0034	-0.25	0.1460	-0.0069	-0.50
TRFTPE	*	0.1085	-0.0364	-2.73	0.1140	-0.0389	-2.85
TWRGQB		0.1500	0.0051	0.39	0.1500	-0.0029	-0.21
VGQJHW		0.1485	0.0036	0.27	0.1560	0.0031	0.23
VUTCME		0.1485	0.0036	0.27	0.1620	0.0091	0.67
VYN4VB		0.1651	0.0202	1.52	0.1765	0.0236	1.73
WCQVEV		0.1430	-0.0019	-0.14	0.1600	0.0071	0.52
WEUM79		0.1530	0.0081	0.61	0.1570	0.0041	0.30
WMA7Q8		0.1600	0.0151	1.14	0.1600	0.0071	0.52
WXBUH6		0.1450	0.0001	0.01	0.1500	-0.0029	-0.21
X9AR4J		0.1240	-0.0209	-1.57	0.1300	-0.0229	-1.68
YNYGE7		0.1365	-0.0084	-0.63	0.1405	-0.0124	-0.91
ZVEFLP		0.1500	0.0051	0.39	0.1590	0.0061	0.45
ZYDQGP		0.1430	-0.0019	-0.14	0.1445	-0.0084	-0.61

Grand Means		Summary Statistics	
	0.14486 Absorbance Units		0.15289 Absorbance Units
<b>Stnd Dev Btwn Labs</b>	0.01330 Absorbance Units		0.01365 Absorbance Units
<b>Statistics based on 48 of 55 reporting participants</b>			

Wines tested: SA51: Pink Moscato; SA52: Pink Moscato



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

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**Comments on Assigned Data Flags for Test #916**

RVGE2R (X) - Data for both samples are low. Possible Systematic Error.

GNXA23 (X) - Data for both samples are low. Possible Systematic Error.

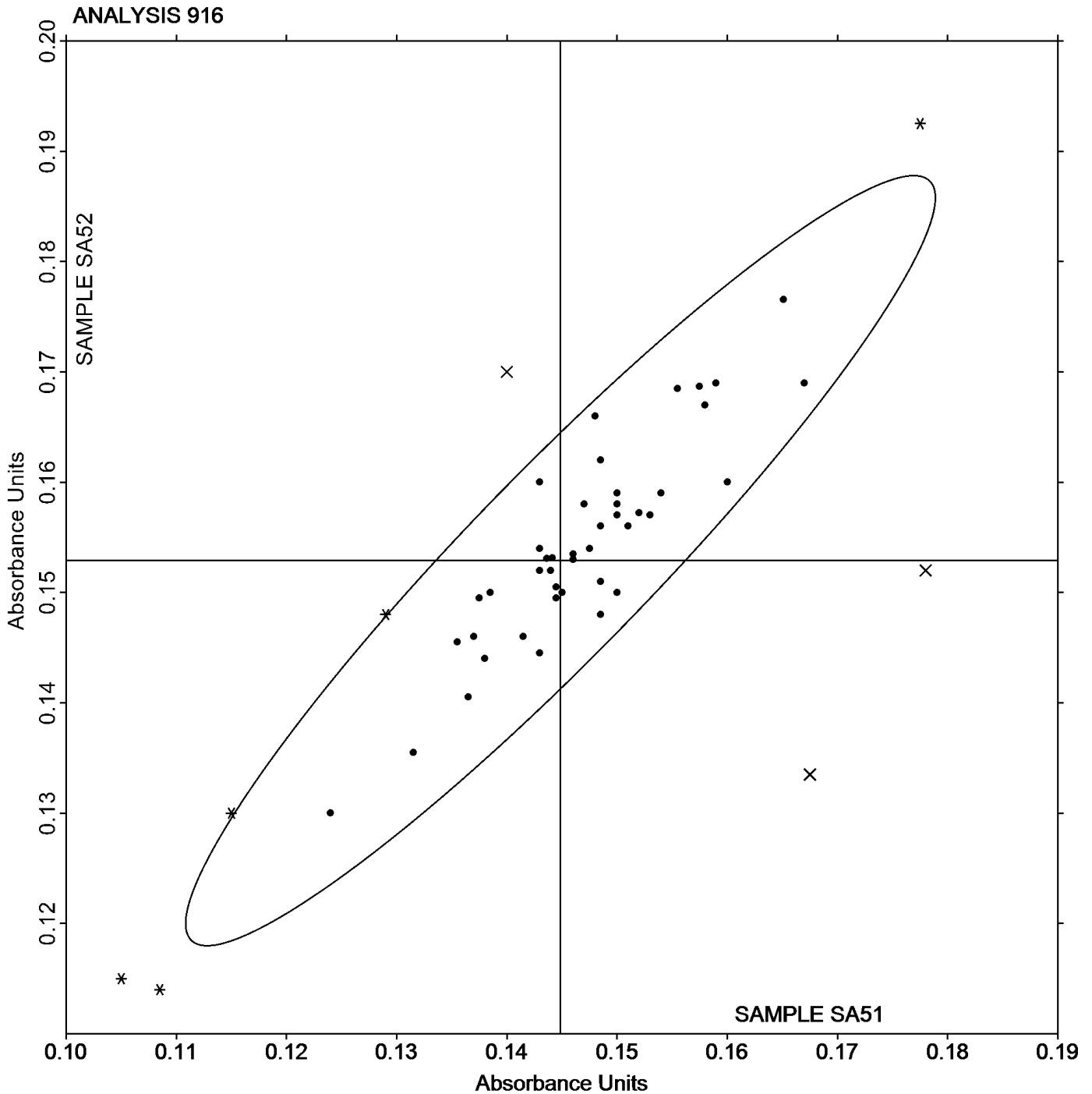
96UYJT (X) - Inconsistent in testing between samples.

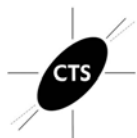
HP827P (X) - Data for both samples are high. Inconsistent within the determinations of both samples.

RJRH3E (X) - Inconsistent in testing between samples.

FQNB9C (X) - Inconsistent in testing between samples.

BP6XGJ (X) - Data for both samples are high. Possible Systematic Error.





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

**Report #076**  
**Spring 2024**

WebCode	Data Flag	Sample SA51			Sample SA52		
		Lab Mean	Diff from Target Value	% Diff from Target Value	Lab Mean	Diff from Target Value	% Diff from Target Value
3BZJ3H		0.3450	0.0622	0.49	0.3400	0.0586	0.45
4D28UD		0.2700	-0.0128	-0.10	0.2650	-0.0164	-0.13
4ULXUC		0.2880	0.0052	0.04	0.2880	0.0066	0.05
7K9LRY		0.2500	-0.0328	-0.26	0.2600	-0.0214	-0.16
8FWWR3		0.2835	0.0007	0.01	0.2580	-0.0234	-0.18
A8VJJX	*	0.6291	0.3463	2.73	0.6527	0.3713	2.86
BP6XGJ		0.2765	-0.0063	-0.05	0.2835	0.0021	0.02
GNXA23		0.3500	0.0672	0.53	0.3460	0.0646	0.50
MDV6DU		0.3345	0.0517	0.41	0.3235	0.0421	0.32
TM3TTN		0.1250	-0.1578	-1.24	0.1200	-0.1614	-1.24
TRFTPE		0.5050	0.2222	1.75	0.4900	0.2086	1.60
TWRGQB		0.1480	-0.1348	-1.06	0.1520	-0.1294	-1.00
URAXLY		0.1210	-0.1618	-1.28	0.1240	-0.1574	-1.21
VGQJHW		0.3230	0.0402	0.32	0.3245	0.0431	0.33
WCQVEV		0.2840	0.0012	0.01	0.2820	0.0006	0.00
X9AR4J		0.2670	-0.0158	-0.12	0.2760	-0.0054	-0.04
YNYGE7		0.2800	-0.0028	-0.02	0.2900	0.0086	0.07
ZVEFLP		0.1600	-0.1228	-0.97	0.1350	-0.1464	-1.13
ZYDQGP		0.1345	-0.1483	-1.17	0.1360	-0.1454	-1.12

**Research Property Consensus Value**

Consensus Average

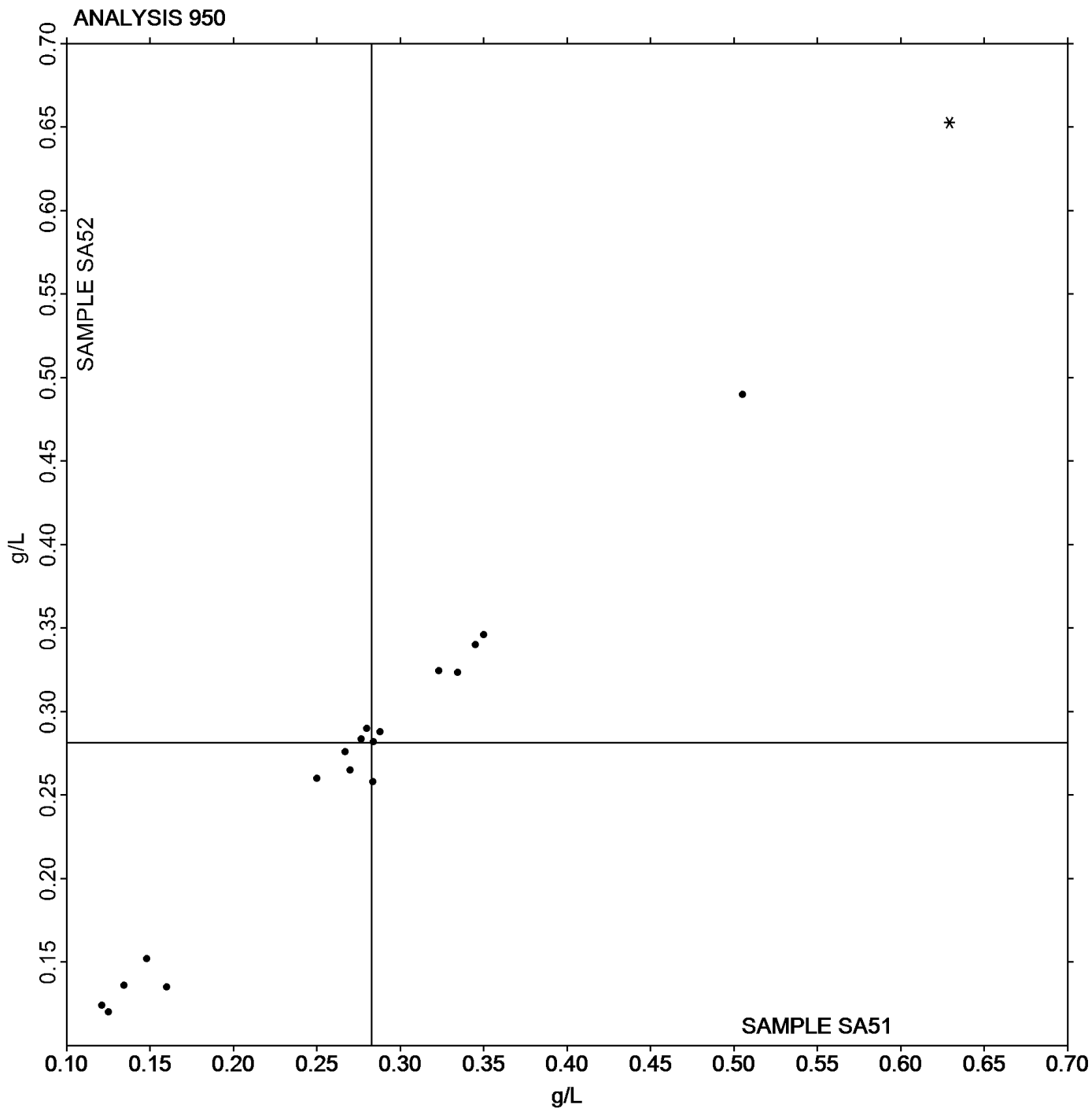
0.28285 g/L

0.28138 g/L

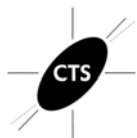
Note: Tests 950, 951 and 952, are research tests. As a result participants should use caution when evaluating data for these tests.

*This consensus average is based on 19 reporting participants.*

Wines tested: SA51: Pink Moscato; SA52: Pink Moscato



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: Potassium Sorbate as Sorbic Acid**

**Report #076**  
**Spring 2024**

WebCode	Data Flag	Sample SA51			Sample SA52		
		Lab Mean	Diff from Target Value	% Diff from Target Value	Lab Mean	Diff from Target Value	% Diff from Target Value
2MZQKW		154.1	-4.0	-0.31	152.1	-6.3	-0.49
3BZJ3H		154.0	-4.1	-0.31	154.5	-3.9	-0.30
4D28UD		173.0	14.9	1.14	173.9	15.5	1.21
4ULXUC		168.5	10.4	0.79	168.5	10.1	0.79
7K9LRY		127.0	-31.1	-2.37	130.0	-28.4	-2.21
8FWWR3	*	134.2	-24.0	-1.83	128.8	-29.6	-2.31
BP6XGJ		173.0	14.9	1.14	167.0	8.6	0.67
GNXA23		158.0	-0.1	-0.01	160.0	1.6	0.13
JY8NZ8		163.5	5.4	0.41	166.5	8.1	0.63
M9GMWD		169.0	10.9	0.83	169.0	10.6	0.83
MVUHLV		138.5	-19.6	-1.50	145.6	-12.8	-1.00
NMJFZU		162.0	3.9	0.30	164.5	6.1	0.48
TM3TTN		154.5	-3.6	-0.28	155.5	-2.9	-0.23
TWRGQB		155.0	-3.1	-0.24	155.0	-3.4	-0.26
WCQVEV		171.0	12.9	0.98	171.0	12.6	0.98
YNYGE7		169.5	11.4	0.87	170.0	11.6	0.91
YZRX38		161.0	2.9	0.22	161.0	2.6	0.20
ZVEFLP		152.5	-5.6	-0.43	151.0	-7.4	-0.58
ZYDQGP		166.0	7.9	0.60	165.5	7.1	0.55

**Research Property Consensus Value**

Consensus Average

158.12 mg/L

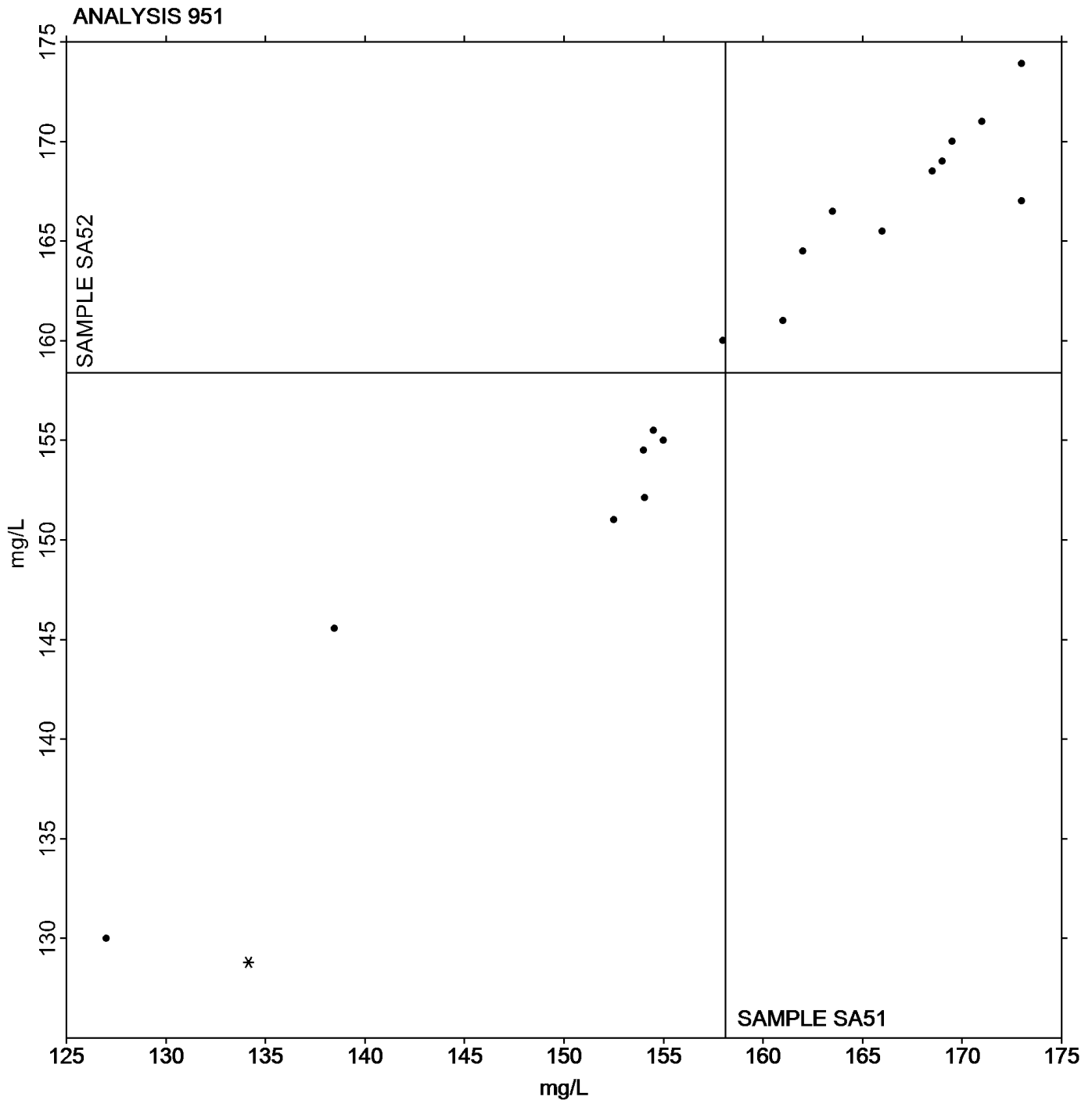
158.39 mg/L

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 19 reporting participants.*

Wines tested: SA51: Pink Moscato; SA52: Pink Moscato





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



WebCode	Data Flag	Sample SA51			Sample SA52		
		Lab Mean	Diff from Target Value	% Diff from Target Value	Lab Mean	Diff from Target Value	% Diff from Target Value
2MZQKW		81.15	0.73	0.27	81.05	0.57	0.21
4D28UD		78.61	-1.80	-0.67	78.24	-2.23	-0.83
4HV2UY	X	181.37	100.96	37.56	181.58	101.11	37.75
4ULXUC		79.40	-1.02	-0.38	79.60	-0.87	-0.33
7K9LRY		85.89	5.47	2.04	85.89	5.41	2.02
7TM823		80.93	0.51	0.19	82.12	1.64	0.61
96UYJT		79.50	-0.92	-0.34	79.50	-0.97	-0.36
FQAPWP		75.50	-4.92	-1.83	75.55	-4.92	-1.84
GNXA23		78.45	-1.97	-0.73	78.45	-2.02	-0.76
TM3TTN		83.18	2.77	1.03	82.17	1.70	0.63
TWRGQB	X	0.04	-80.38	-29.90	0.04	-80.44	-30.03
WCQVEV		81.15	0.74	0.27	81.15	0.68	0.25
YNYGE7		80.82	0.40	0.15	81.49	1.02	0.38
ZGTZHQ	X	500.00	419.58	156.09	400.00	319.53	119.30

Research Property Consensus Value

Consensus Average

80.416 kcal/100ml

80.473 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 11 reporting participants.

Wines tested: SA51: Pink Moscato; SA52: Pink Moscato

Comments on Assigned Data Flags for Test #952

4HV2UY (X) - Data for both samples are high.

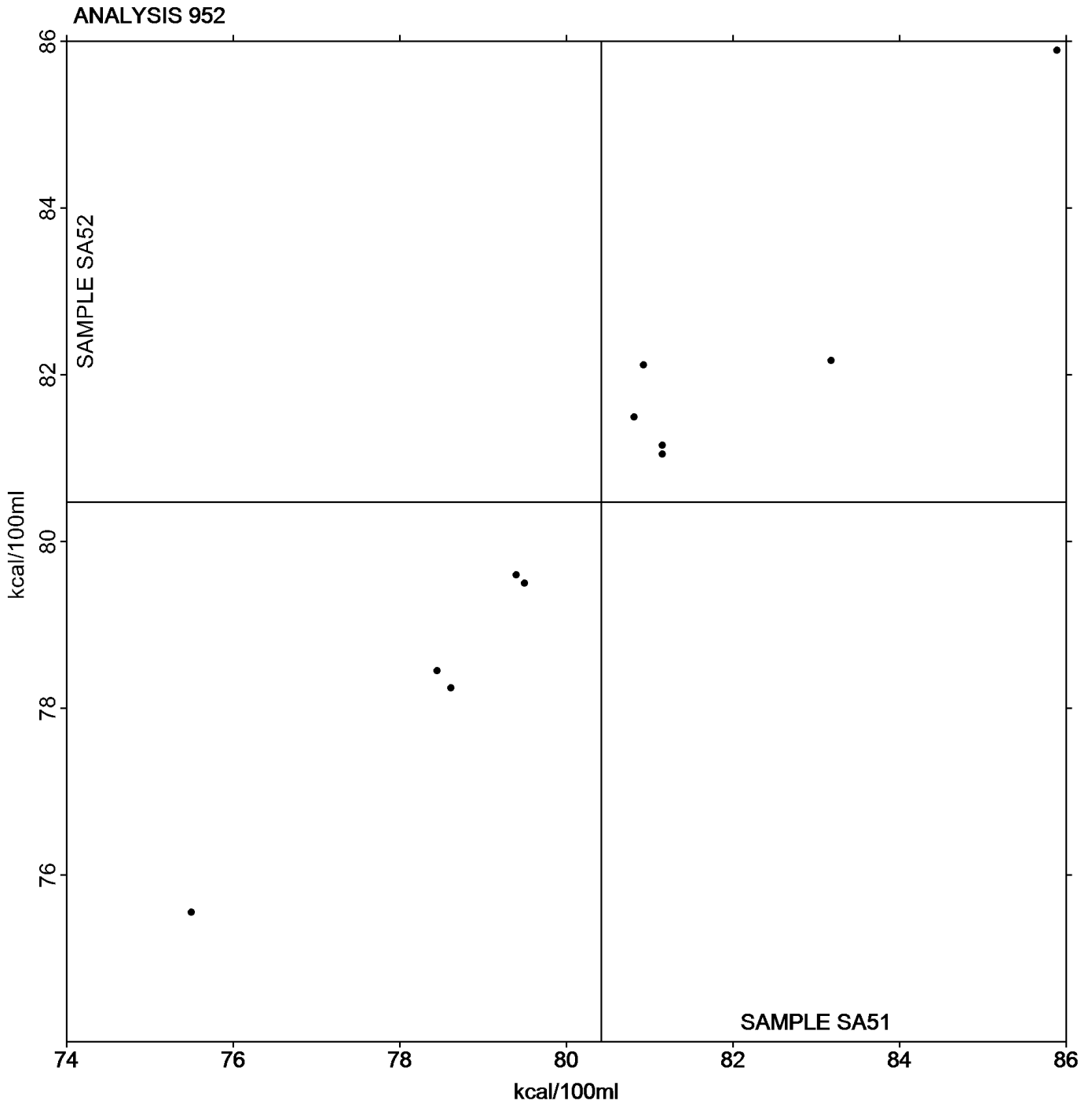
TWRGQB (X) - Data for both samples are low.

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



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-