Collaborative Testing Services, Inc.

Wine Industry Interlaboratory Program

Summary Report #046- Spring 2014

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 Testing Guidance Committee (LPTGC) of the Technical Projects Committee (TPC). The purpose of the survey was to evaluate laboratory performance and assess the performance of the industry with respect to quality assurance testing conducted on commercially produced wine through an on-going interlaboratory testing program. Two bottles of differing wines were supplied to participant laboratories. The samples for each type of wine were chosen consecutively from a single production run, to minimize variation between bottles. Participating laboratories were asked to analyze the samples' ten properties in accordance with their normal laboratory procedures and return the results and methodology information to CTS.

About CTS

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

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Key for Web Summary Report (Page 1 of 2)

WebCode Assigned laboratory identification number (temporary) used to ensure lab confidentiality while permitting a lab to locate its data in the Wine Web Summary Report published on the CTS web site. The WebCode for each analysis can be found in the Performance Analysis Report mailed to each participant.

Lab Mean The average of the test results obtained by the participant.

Grand Mean The average of the LAB MEANS for all included participants. Laboratories flagged with an X or an M (see DATA FLAG column) are excluded from the GRAND MEAN.

Difference from Grand Mean The difference of the LAB MEAN from the GRAND MEAN.

Between-Lab Standard Deviation An indication of the precision of measurement between the laboratories. The greater the spread of the LAB MEANS about the GRAND MEAN, the larger the BETWEEN-LAB STANDARD DEVIATION (and vice versa).

Comparative Performance Value An indication of how well a laboratory's results agree with the other participants. The CPV is a ratio indicating the number of standard deviations from the GRAND MEAN. The closer a laboratory's COMPARATIVE PERFORMANCE VALUE is to zero, the more consistent its results are with the other participants' data (and vice versa). The critical value for each CPV will vary depending on the number of labs participating in a test.

Data Flag DATA FLAGS are assigned based on the simultaneous analysis of both samples tested. Refer to the following chart for an explanation of each symbol:

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

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

Common Problems Highlighted in Footnotes

1. ***Extreme data*** - The laboratory's results for one or both samples are so inconsistent with those of the other participants that the lab mean(s) fall outside the plot. The participant is advised to immediately review his data and/or testing procedure.

2. ***Systematic bias*** - The laboratory's results are either consistently high or low for both samples when compared to the other participants (the plotted point falls near the top or bottom of the ellipse). This indicates that the participant is performing the test with a constant bias. Causes of systematic errors include improper calibration, the particular make/model of equipment or a modification to the testing procedure.

3. ***Inconsistency in testing between samples/sample sets*** - The laboratory's results indicate that there are differences in the way the two samples tested (the plotted point falls to the side of the ellipse). This type of error may be attributed to the analyst deviating from the procedure when testing one of the samples or a material interaction occurrence with the instrument or room conditions. The inconsistency is reflected in the CPVs for the two samples, such as a +1.5 CPV for sample A and a -2.2 CPV for sample B. CTS also will specify if the laboratory's data for one sample are high/low compared to the other participants. If this inconsistency is slight, the lab's plotted point will be an * that falls on the edge of the ellipse.

4. ***Inconsistency in testing within a sample*** - The laboratory's within-lab standard deviation for a specified sample is high when compared to the other participants, often causing the lab's plotted point to fall outside of the ellipse.

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

ASEV-CTS Wine Industry Interlaboratory Testing Program

Analysis 901

Ethanol (% of volume)

		Sample SA89			Sample SA90		
WebCode	Data Flag	Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2BF48X		8.335	-0.011	-0.24	8.350	-0.041	-0.86
2CXQKQ		8.375	0.029	0.62	8.405	0.014	0.29
2PXU7Z		8.365	0.019	0.41	8.410	0.019	0.39
2QVPNM	X	8.825	0.479	10.29	8.850	0.459	9.59
3AM7AW		8.350	0.004	0.09	8.390	-0.001	-0.03
42L92J		8.300	-0.046	-0.99	8.330	-0.061	-1.28
497VVJ		8.370	0.024	0.52	8.420	0.029	0.60
4HXP9L		8.300	-0.046	-0.99	8.300	-0.091	-1.91
4KYTXM		8.300	-0.046	-0.99	8.300	-0.091	-1.91
4RWMUZ		8.325	-0.021	-0.45	8.370	-0.021	-0.44
69376X		8.315	-0.031	-0.67	8.370	-0.021	-0.44
6ATWCQ	X	8.180	-0.166	-3.57	8.235	-0.156	-3.27
7GBZX6		8.360	0.014	0.30	8.400	0.009	0.18
98WGDQ		8.400	0.054	1.16	8.400	0.009	0.18
9EHXZF		8.345	-0.001	-0.02	8.395	0.004	0.08
9HVCBL		8.315	-0.031	-0.67	8.390	-0.001	-0.03
A4VCCW		8.405	0.059	1.27	8.470	0.079	1.65
ADJ32A		8.310	-0.036	-0.77	8.380	-0.011	-0.23
AK44GM		8.380	0.034	0.73	8.425	0.034	0.71
APEGWZ		8.355	0.009	0.19	8.410	0.019	0.39
B9L7M3		8.435	0.089	1.91	8.445	0.054	1.12
BFKQU6	X	8.340	-0.006	-0.13	8.295	-0.096	-2.01
C7UCJ8		8.380	0.034	0.73	8.420	0.029	0.60
CAPFFE		8.395	0.049	1.05	8.390	-0.001	-0.03
CGPK3A		8.395	0.049	1.05	8.455	0.064	1.33
CZ4UA2		8.330	-0.016	-0.34	8.360	-0.031	-0.65
DG9J2T		8.365	0.019	0.41	8.415	0.024	0.50

ASEV-CTS Wine Industry Interlaboratory Testing Program

Analysis 901

Ethanol (% of volume)

		Sample SA89			Sample SA90		
WebCode	Data Flag	Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
DNMPFB		8.390	0.044	0.95	8.440	0.049	1.02
DYRFJ8	*	8.490	0.144	3.09	8.515	0.124	2.59
E2ED9P		8.390	0.044	0.95	8.430	0.039	0.81
F8CMU9	X	8.395	0.049	1.05	8.260	-0.131	-2.74
FFR7CM		8.300	-0.046	-0.99	8.400	0.009	0.18
GPRZ26		8.325	-0.021	-0.45	8.375	-0.016	-0.34
HBHJB9		8.380	0.034	0.73	8.420	0.029	0.60
HJCN6A	X	8.600	0.254	5.46	8.600	0.209	4.37
HP4WP4		8.350	0.004	0.09	8.400	0.009	0.18
HUV49C		8.350	0.004	0.09	8.395	0.004	0.08
J2E8UQ		8.355	0.009	0.19	8.410	0.019	0.39
JFXPNF		8.300	-0.046	-0.99	8.300	-0.091	-1.91
JR2W37		8.260	-0.086	-1.85	8.325	-0.066	-1.39
K737LQ		8.390	0.044	0.95	8.445	0.054	1.12
KPEVYN		8.290	-0.056	-1.20	8.345	-0.046	-0.97
KZELJW		8.345	-0.001	-0.02	8.410	0.019	0.39
LAG24A	X	8.780	0.434	9.32	8.965	0.574	12.00
LR3MNZ		8.390	0.044	0.95	8.435	0.044	0.92
LX9FHV		8.305	-0.041	-0.88	8.410	0.019	0.39
NXY4AP		8.345	-0.001	-0.02	8.430	0.039	0.81
P2RRYV		8.425	0.079	1.70	8.470	0.079	1.65
P6PPE9		8.400	0.054	1.16	8.450	0.059	1.23
PL27LB		8.320	-0.026	-0.56	8.360	-0.031	-0.65
PMBRBH		8.330	-0.016	-0.34	8.390	-0.001	-0.03
PP6D7U		8.290	-0.056	-1.20	8.345	-0.046	-0.97
Q7GQQV		8.230	-0.116	-2.49	8.290	-0.101	-2.12
QGF4TW		8.295	-0.051	-1.10	8.345	-0.046	-0.97

ASEV-CTS Wine Industry Interlaboratory Testing Program

Analysis 901

Ethanol (% of volume)

WebCode	Data Flag	Sample SA89 Lab Mean	Sample SA89 Diff from Grand Mean	Sample SA89 CPV	Sample SA90 Lab Mean	Sample SA90 Diff from Grand Mean	Sample SA90 CPV
RPF2H6		8.315	-0.031	-0.67	8.365	-0.026	-0.55
RRLL76		8.400	0.054	1.16	8.455	0.064	1.33
RU92WZ		8.285	-0.061	-1.31	8.310	-0.081	-1.70
TY2KDP		8.350	0.004	0.09	8.400	0.009	0.18
V43DKP		8.350	0.004	0.09	8.405	0.014	0.29
WKPFEY		8.300	-0.046	-0.99	8.400	0.009	0.18
WQN6TH		8.300	-0.046	-0.99	8.300	-0.091	-1.91
XAXEDF		8.310	-0.036	-0.77	8.380	-0.011	-0.23
XHFQQF		8.350	0.004	0.09	8.395	0.004	0.08
XVYYAU		8.405	0.059	1.27	8.420	0.029	0.60
XXPGQZ	X	8.100	-0.246	-5.28	8.400	0.009	0.18
YQNJJN	X	8.545	0.199	4.28	8.570	0.179	3.74
YXJJVV		8.350	0.004	0.09	8.400	0.009	0.18
ZE3WMR		8.350	0.004	0.09	8.390	-0.001	-0.03
ZXJ7L8		8.290	-0.056	-1.20	8.310	-0.081	-1.70

Summary Statistics

	Sample SA89		Sample SA90	
Grand Means	8.3460	percent	8.3912	percent
Stnd Dev Btwn Labs	0.0465	percent	0.0478	percent

Statistics based on 61 of 69 reporting participants

Wines tested: SA89: Rose; SA90: Rose

ASEV-CTS Wine Industry Interlaboratory Testing Program

Analysis 901

Ethanol (% of volume)

Comments on assigned Data Flags

2QVPNM (X) - Data for both samples are high.

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

BFKQU6 (X) - Inconsistent in testing between samples.

F8CMU9 (X) - Inconsistent in testing between samples, data for Sample SA90 are low.

HJCN6A (X) - Data for both samples are high.

LAG24A (X) - Data for both samples are high.

XXPGQZ (X) - Inconsistent in testing between samples, data for Sample SA89 are high. Also inconsistent in testing within Sample SA90.

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

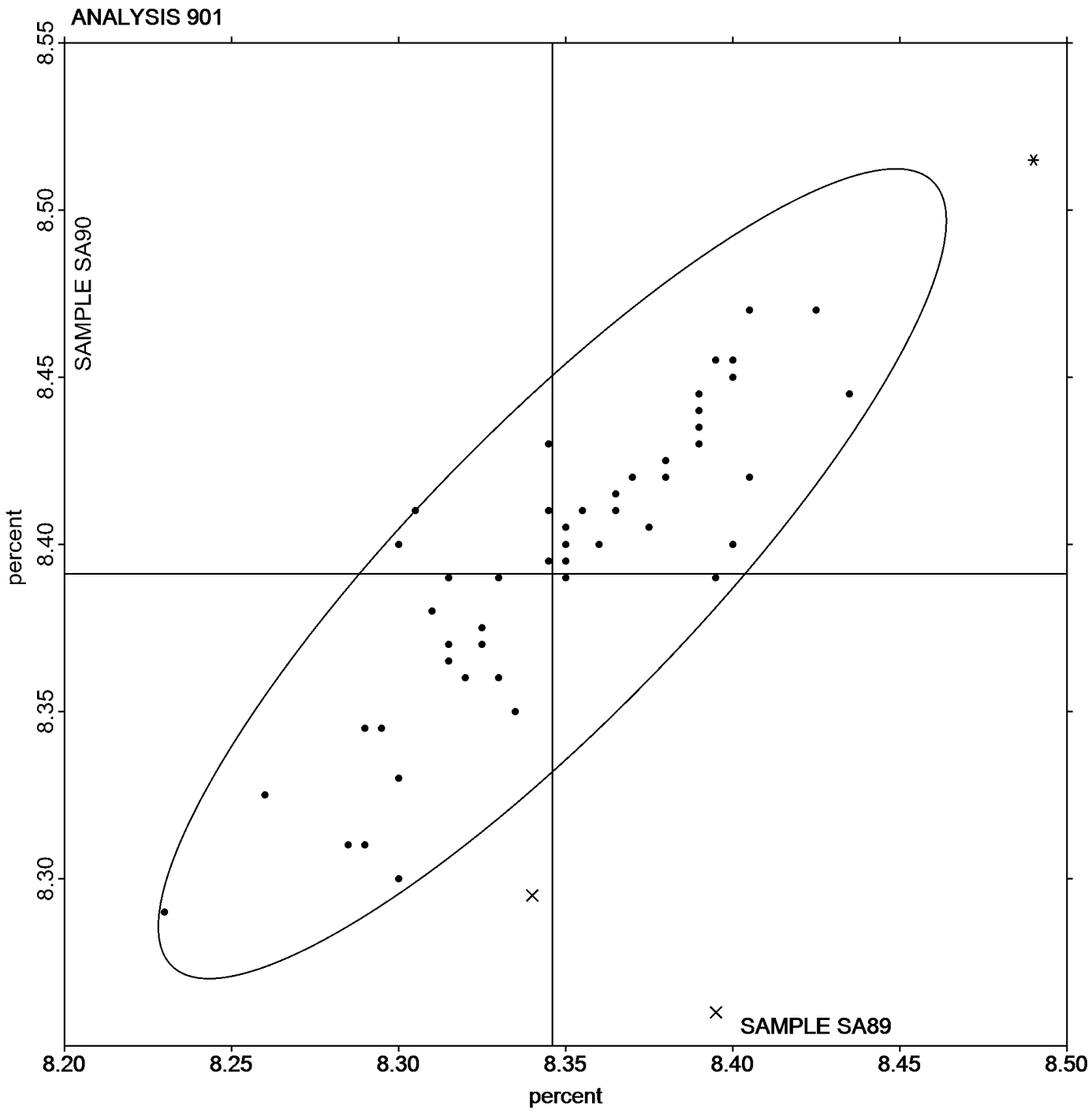
Results by Methodology (as reported by laboratory)

	Sample SA89 *Rose*			Sample SA90 *Rose*				
Test Methodology	Group Mean	Btwn Lab STD	Diff from GM	Group Mean	Btwn Lab STD	Diff from GM	Labs Incl	/ Rpt
Ebulliometer Method	8.300	0.000	-0.046	8.300	0.000	-0.091	1	3
Gas Chromatography Method	8.383	0.074	0.037	8.403	0.060	0.011	2	3
Near Infrared Method	8.341	0.038	-0.005	8.394	0.038	0.002	42	44
Dist. / Density Method	8.339	0.053	-0.007	8.359	0.052	-0.032	9	10
FTIR	8.363	0.053	0.017	8.413	0.060	0.021	6	8

ASEV-CTS Wine Industry Interlaboratory Testing Program

Analysis 901

Ethanol (% of volume)



ASEV-CTS Wine Industry Interlaboratory Testing Program

Analysis 902

Total Sulfur Dioxide

WebCode	Data Flag	Sample SA89 Lab Mean	Sample SA89 Diff from Grand Mean	Sample SA89 CPV	Sample SA90 Lab Mean	Sample SA90 Diff from Grand Mean	Sample SA90 CPV
2BF48X		120.5	5.2	0.62	120.5	1.7	0.19
2CXQKQ		119.0	3.7	0.44	121.5	2.7	0.30
2PXU7Z		112.5	-2.8	-0.34	117.0	-1.8	-0.19
2QVPNM		125.0	9.7	1.15	130.5	11.7	1.28
3AM7AW		104.5	-10.8	-1.30	110.0	-8.8	-0.95
42L92J		119.0	3.7	0.44	123.0	4.2	0.46
497VVJ		113.0	-2.3	-0.28	119.5	0.7	0.08
4HXP9L		111.5	-3.8	-0.45	115.4	-3.3	-0.36
4KYTXM		119.0	3.7	0.44	119.0	0.2	0.03
4RWMUZ		119.0	3.7	0.44	116.0	-2.8	-0.30
69376X		117.0	1.7	0.20	113.5	-5.3	-0.57
6ATWCQ		109.5	-5.8	-0.70	114.0	-4.8	-0.52
7GBZX6		117.5	2.2	0.26	123.0	4.2	0.46
98WGDQ	X	134.0	18.7	2.23	118.0	-0.8	-0.08
9EHXZF		115.0	-0.3	-0.04	121.0	2.2	0.24
9HVCBL	*	107.0	-8.3	-1.00	118.5	-0.3	-0.03
A4VCCW		121.5	6.2	0.74	127.5	8.7	0.95
ADJ32A		117.5	2.2	0.26	115.0	-3.8	-0.41
AK44GM		122.5	7.2	0.86	126.5	7.7	0.84
APEGWZ		115.5	0.2	0.02	116.5	-2.3	-0.25
B9L7M3		115.0	-0.3	-0.04	120.0	1.2	0.14
BFKQU6		111.3	-4.1	-0.49	114.5	-4.3	-0.46
C7UCJ8		129.5	14.2	1.69	134.5	15.7	1.71
CAPFFE	X	75.8	-39.5	-4.72	77.2	-41.6	-4.53
CGPK3A		114.5	-0.8	-0.10	119.0	0.2	0.03
CZ4UA2		116.0	0.7	0.08	120.0	1.2	0.14
DG9J2T		119.5	4.2	0.50	124.0	5.2	0.57

ASEV-CTS Wine Industry Interlaboratory Testing Program

Analysis 902

Total Sulfur Dioxide

		Sample SA89			Sample SA90		
WebCode	Data Flag	Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
DNMPFB		123.0	7.7	0.92	122.5	3.7	0.41
DYRFJ8		122.0	6.7	0.80	130.0	11.2	1.22
E2ED9P		123.5	8.2	0.98	130.0	11.2	1.22
F8CMU9	X	145.5	30.2	3.61	149.5	30.7	3.35
FFR7CM		106.0	-9.3	-1.12	114.5	-4.3	-0.46
GPRZ26		113.5	-1.8	-0.22	113.5	-5.3	-0.57
HBHJB9		111.0	-4.3	-0.52	111.5	-7.3	-0.79
HJCN6A	*	98.0	-17.3	-2.07	93.0	-25.8	-2.80
HP4WP4		120.0	4.7	0.56	120.0	1.2	0.14
HUV49C		97.5	-17.8	-2.13	104.5	-14.3	-1.55
J2E8UQ		115.0	-0.3	-0.04	118.5	-0.3	-0.03
JFXPNF		121.0	5.7	0.68	123.0	4.2	0.46
JJVRCA	*	134.1	18.8	2.24	142.2	23.5	2.55
JR2W37		103.5	-11.8	-1.42	106.0	-12.8	-1.39
JYK3YC		115.0	-0.3	-0.04	110.0	-8.8	-0.95
K737LQ	X	99.5	-15.8	-1.89	87.5	-31.3	-3.40
KPEVYN		117.5	2.2	0.26	120.0	1.2	0.14
KZELJW		126.5	11.2	1.33	136.0	17.2	1.88
LAG24A		119.0	3.7	0.44	124.0	5.2	0.57
LR3MNZ		115.0	-0.3	-0.04	118.5	-0.3	-0.03
LX9FHV		108.0	-7.3	-0.88	113.6	-5.2	-0.56
NXY4AP		112.0	-3.3	-0.40	117.0	-1.8	-0.19
P2RRYV	*	140.5	25.2	3.01	142.5	23.7	2.58
P6PPE9		128.5	13.2	1.57	131.5	12.7	1.39
PL27LB		117.5	2.2	0.26	123.0	4.2	0.46
PMBRBH		111.5	-3.8	-0.46	112.0	-6.8	-0.73
PP6D7U		112.0	-3.3	-0.40	112.0	-6.8	-0.73

ASEV-CTS Wine Industry Interlaboratory Testing Program

Analysis 902

Total Sulfur Dioxide

WebCode	Data Flag	Sample SA89 Lab Mean	Sample SA89 Diff from Grand Mean	Sample SA89 CPV	Sample SA90 Lab Mean	Sample SA90 Diff from Grand Mean	Sample SA90 CPV
Q7GQQV		115.0	-0.3	-0.04	123.5	4.7	0.52
QGF4TW		120.5	5.2	0.62	123.0	4.2	0.46
RPF2H6	*	91.0	-24.3	-2.91	93.5	-25.3	-2.75
RRLL76		117.0	1.7	0.20	121.5	2.7	0.30
RU92WZ		98.5	-16.8	-2.01	100.0	-18.8	-2.04
TY2KDP	X	107.5	-7.8	-0.94	123.0	4.2	0.46
V43DKP		115.5	0.2	0.02	119.5	0.7	0.08
WKPFEY		110.0	-5.3	-0.64	110.0	-8.8	-0.95
WQN6TH		105.5	-9.8	-1.18	113.0	-5.8	-0.63
XAXEDF		112.0	-3.3	-0.40	114.0	-4.8	-0.52
XHFQQF		121.0	5.7	0.68	123.0	4.2	0.46
XXPGQZ		115.0	-0.3	-0.04	123.0	4.2	0.46
YQNJJN		107.0	-8.3	-1.00	109.5	-9.3	-1.01
ZE3WMR		118.0	2.7	0.32	120.0	1.2	0.14
ZXJ7L8		113.0	-2.3	-0.28	117.5	-1.3	-0.14

Summary Statistics

	Sample SA89	Sample SA90
Grand Means	115.34 mg/L	118.75 mg/L
Stnd Dev Btwn Labs	8.36 mg/L	9.19 mg/L

Statistics based on 64 of 69 reporting participants

Wines tested: SA89: Rose; SA90: Rose

ASEV-CTS Wine Industry Interlaboratory Testing Program

Analysis 902

Total Sulfur Dioxide

Comments on assigned Data Flags

98WGDQ (X) - Inconsistent in testing between samples.

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

F8CMU9 (X) - Data for both samples are high. Possible Systematic Error.

K737LQ (X) - Inconsistent in testing between samples, data for Sample SA90 are low.

TY2KDP (X) - Inconsistent in testing between samples and inconsistent within the determinations for Sample SA89.

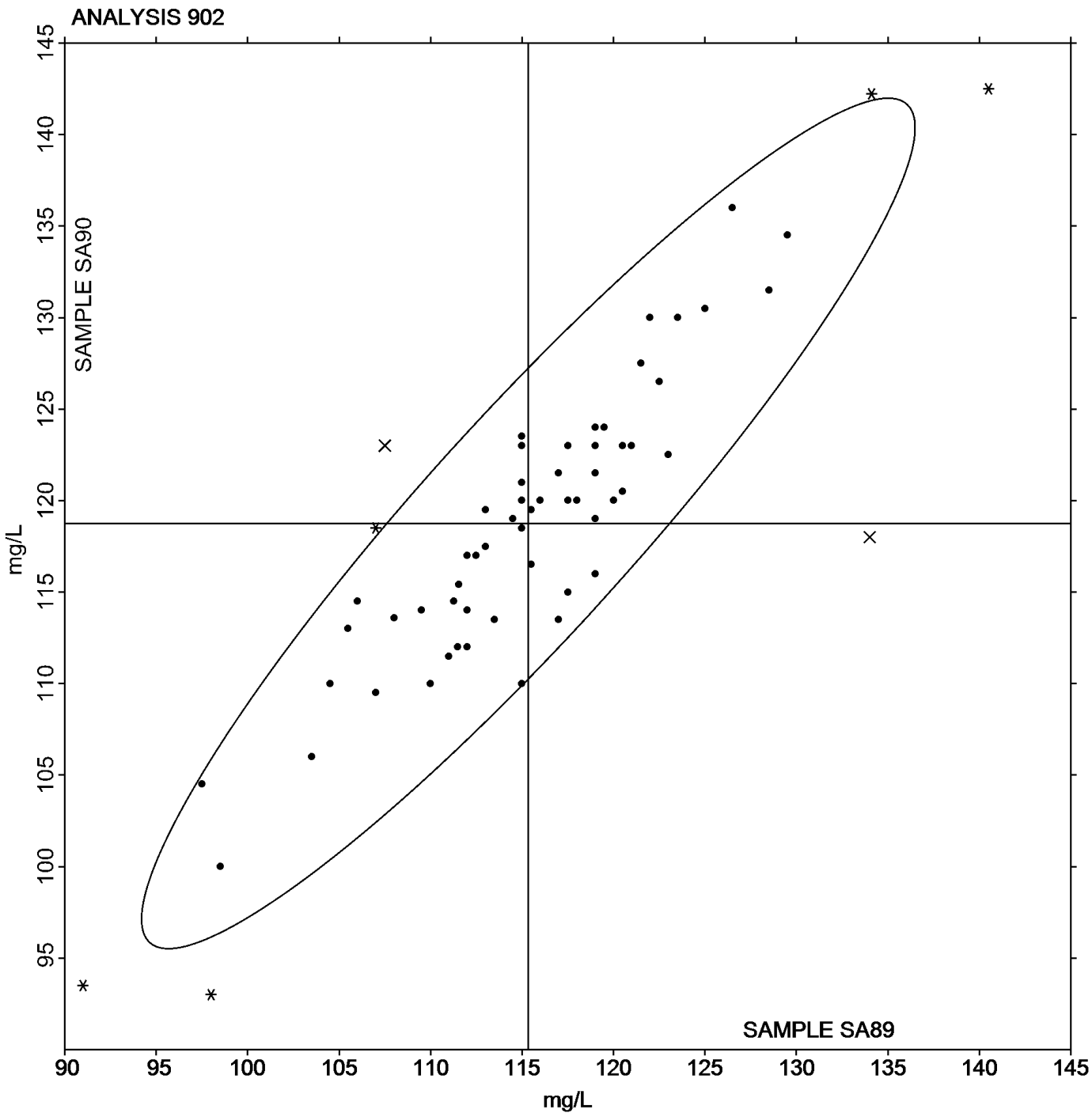
Results by Methodology (as reported by laboratory)

	Sample SA89 *Rose*			Sample SA90 *Rose*				
Test Methodology	Group Mean	Btwn Lab STD	Diff from GM	Group Mean	Btwn Lab STD	Diff from GM	Labs Incl	/ Rpt
Please specify method used	112.0	0.0	-3.3	114.0	0.0	-4.8	1	1
Ripper Method	115.1	6.3	-0.2	117.1	6.4	-1.7	22	28
Aeration Oxidation (AO) Method	111.8	6.5	-3.5	116.2	6.8	-2.6	14	16
Segemented Flow Analyzer	114.9	3.1	-0.4	119.0	5.3	0.2	5	6
Enzymatic Method	123.0	5.8	7.7	125.0	10.0	6.2	3	4
Colormetric Analyzer	118.9	2.7	3.5	121.4	2.6	2.6	4	4
FTIR	117.3	7.7	2.0	123.8	8.2	5.0	5	5
Flow Injection Analysis	119.2	7.4	3.9	124.0	8.2	5.2	5	5

ASEV-CTS Wine Industry Interlaboratory Testing Program

Analysis 902

Total Sulfur Dioxide



ASEV-CTS Wine Industry Interlaboratory Testing Program

Analysis 903

Free Sulfur Dioxide

WebCode	Data Flag	Sample SA89 Lab Mean	Sample SA89 Diff from Grand Mean	Sample SA89 CPV	Sample SA90 Lab Mean	Sample SA90 Diff from Grand Mean	Sample SA90 CPV
2BF48X		28.50	-1.33	-0.41	28.00	-1.11	-0.39
2CXQKQ	*	26.50	-3.33	-1.04	24.00	-5.11	-1.78
2PXU7Z		30.50	0.67	0.21	29.00	-0.11	-0.04
2QVPNM		26.00	-3.83	-1.19	25.50	-3.61	-1.26
3AM7AW		29.50	-0.33	-0.10	28.00	-1.11	-0.39
42L92J	X	35.00	5.17	1.61	27.00	-2.11	-0.73
497VVJ		32.00	2.17	0.67	31.00	1.89	0.66
4HXP9L		29.25	-0.59	-0.18	29.66	0.55	0.19
4RWMUZ		28.00	-1.83	-0.57	27.50	-1.61	-0.56
69376X		30.50	0.67	0.21	30.50	1.39	0.48
6ATWCQ		25.00	-4.83	-1.50	24.50	-4.61	-1.61
7GBZX6		29.00	-0.83	-0.26	28.00	-1.11	-0.39
98WGDQ	X	31.00	1.17	0.36	26.00	-3.11	-1.08
9EHXZF		28.80	-1.03	-0.32	26.80	-2.31	-0.80
9HVCBL		27.50	-2.33	-0.73	26.50	-2.61	-0.91
A4VCCW		33.00	3.17	0.99	32.50	3.39	1.18
ADJ32A	*	39.00	9.17	2.85	36.00	6.89	2.40
AK44GM		34.00	4.17	1.30	33.00	3.89	1.36
APEGWZ		30.50	0.67	0.21	29.50	0.39	0.14
B9L7M3		34.50	4.67	1.45	33.50	4.39	1.53
BFKQU6	*	36.38	6.55	2.04	36.38	7.27	2.53
C7UCJ8		33.00	3.17	0.99	31.00	1.89	0.66
CAPFFE		27.15	-2.68	-0.83	26.58	-2.53	-0.88
CGPK3A		33.50	3.67	1.14	32.00	2.89	1.01
CZ4UA2		31.50	1.67	0.52	31.00	1.89	0.66
DG9J2T		29.50	-0.33	-0.10	28.00	-1.11	-0.39
DNMPFB		23.50	-6.33	-1.97	22.50	-6.61	-2.30

ASEV-CTS Wine Industry Interlaboratory Testing Program

Analysis 903

Free Sulfur Dioxide

		Sample SA89			Sample SA90		
WebCode	Data Flag	Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
DYRFJ8		26.50	-3.33	-1.04	26.00	-3.11	-1.08
E2ED9P		36.50	6.67	2.07	34.00	4.89	1.70
F8CMU9		29.00	-0.83	-0.26	28.50	-0.61	-0.21
FFR7CM		25.00	-4.83	-1.50	25.50	-3.61	-1.26
GPRZ26		28.50	-1.33	-0.41	28.50	-0.61	-0.21
HBHJB9		32.50	2.67	0.83	31.50	2.39	0.83
HJCN6A	X	26.50	-3.33	-1.04	18.50	-10.61	-3.70
HP4WP4		24.50	-5.33	-1.66	25.50	-3.61	-1.26
HUV49C		30.00	0.17	0.05	29.50	0.39	0.14
J2E8UQ		28.50	-1.33	-0.41	28.00	-1.11	-0.39
JFXPNF	X	26.00	-3.83	-1.19	29.00	-0.11	-0.04
JJVRCA	X	40.32	10.48	3.26	40.68	11.57	4.03
JR2W37		27.00	-2.83	-0.88	27.00	-2.11	-0.73
JYK3YC		31.00	1.17	0.36	31.00	1.89	0.66
K737LQ		31.00	1.17	0.36	30.00	0.89	0.31
KPEVYN		29.00	-0.83	-0.26	29.50	0.39	0.14
KZELJW		33.50	3.67	1.14	32.50	3.39	1.18
LAG24A	*	33.50	3.67	1.14	30.00	0.89	0.31
LR3MNZ		30.00	0.17	0.05	29.00	-0.11	-0.04
LX9FHV	X	27.20	-2.63	-0.82	33.60	4.49	1.56
NXY4AP		29.50	-0.33	-0.10	30.00	0.89	0.31
P2RRYV		27.00	-2.83	-0.88	27.50	-1.61	-0.56
P6PPE9		26.00	-3.83	-1.19	27.00	-2.11	-0.73
PL27LB		28.00	-1.83	-0.57	27.50	-1.61	-0.56
PMBRBH		28.65	-1.18	-0.37	30.00	0.89	0.31
PP6D7U		30.00	0.17	0.05	29.00	-0.11	-0.04
Q7GQQV	X	26.50	-3.33	-1.04	32.00	2.89	1.01

ASEV-CTS Wine Industry Interlaboratory Testing Program

Analysis 903

Free Sulfur Dioxide

WebCode	Data Flag	Sample SA89 Lab Mean	Sample SA89 Diff from Grand Mean	Sample SA89 CPV	Sample SA90 Lab Mean	Sample SA90 Diff from Grand Mean	Sample SA90 CPV
QGF4TW		32.00	2.17	0.67	31.50	2.39	0.83
RPF2H6	X	4.00	-25.83	-8.04	10.00	-19.11	-6.66
RRLL76		35.50	5.67	1.76	35.00	5.89	2.05
RU92WZ		30.50	0.67	0.21	29.50	0.39	0.14
TY2KDP		29.05	-0.78	-0.24	26.75	-2.36	-0.82
V43DKP		33.50	3.67	1.14	32.50	3.39	1.18
WKPFEY		27.50	-2.33	-0.73	27.00	-2.11	-0.73
XAXEDF		30.00	0.17	0.05	28.00	-1.11	-0.39
XHFQQF		27.00	-2.83	-0.88	26.00	-3.11	-1.08
XVYYAU	*	24.00	-5.83	-1.81	26.50	-2.61	-0.91
XXPGQZ		28.00	-1.83	-0.57	28.00	-1.11	-0.39
YQNJJN		33.00	3.17	0.99	31.00	1.89	0.66
YXJJVV		28.00	-1.83	-0.57	26.00	-3.11	-1.08
ZE3WMR		31.00	1.17	0.36	30.50	1.39	0.48
ZXJ7L8		29.00	-0.83	-0.26	29.50	0.39	0.14

Summary Statistics

	Sample SA89	Sample SA90
Grand Means	29.832 mg/L	29.109 mg/L
Stnd Dev Btwn Labs	3.215 mg/L	2.870 mg/L

Statistics based on 61 of 69 reporting participants

Wines tested: SA89: Rose; SA90: Rose

ASEV-CTS Wine Industry Interlaboratory Testing Program

Analysis 903

Free Sulfur Dioxide

Comments on assigned Data Flags

42L92J (X) - Inconsistent in testing between samples.

98WGDQ (X) - Inconsistent in testing between samples.

HJCN6A (X) - Inconsistent in testing between samples, data for Sample SA90 are low.

JFXPNF (X) - Inconsistent in testing between samples.

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

LX9FHV (X) - Inconsistent in testing between samples.

Q7GQQV (X) - Inconsistent in testing between samples.

RPF2H6 (X) - Data for both samples are low. Also inconsistent in testing within both samples.

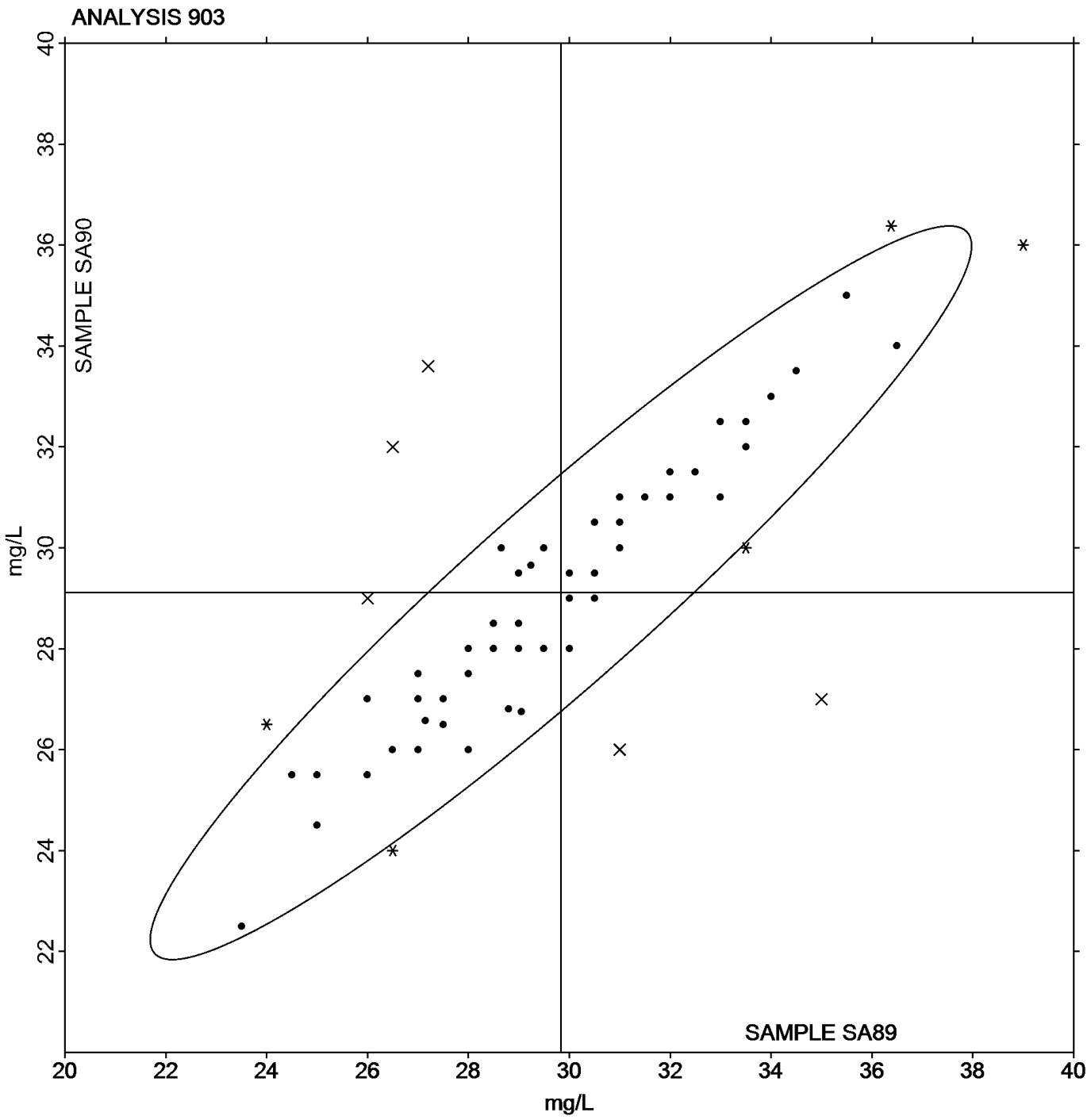
Results by Methodology (as reported by laboratory)

	Sample SA89 *Rose*			Sample SA90 *Rose*				
Test Methodology	Group Mean	Btwn Lab STD	Diff from GM	Group Mean	Btwn Lab STD	Diff from GM	Labs Incl	/ Rpt
Please specify method used	30.00	0.00	0.17	28.00	0.00	-1.11	1	1
Ripper Method	29.79	2.83	-0.04	29.04	2.84	-0.07	16	19
Aeration Oxidation (AO) Method	29.27	2.37	-0.56	28.84	2.11	-0.27	21	29
Segmented Flow Analyzer	30.17	3.03	0.33	29.33	2.71	0.22	6	7
Enzymatic Method	36.50	0.00	6.67	34.00	0.00	4.89	1	1
Colormetric Analyzer	28.33	1.26	-1.50	27.33	1.15	-1.78	3	3
Flow Injection Analysis	28.20	3.78	-1.63	27.60	3.15	-1.51	5	6
FTIR	31.83	2.47	2.00	31.50	1.73	2.39	3	3

ASEV-CTS Wine Industry Interlaboratory Testing Program

Analysis 903

Free Sulfur Dioxide



ASEV-CTS Wine Industry Interlaboratory Testing Program

Analysis 904

Titratable Acidity

WebCode	Data Flag	Sample SA89 Lab Mean	Sample SA89 Diff from Grand Mean	Sample SA89 CPV	Sample SA90 Lab Mean	Sample SA90 Diff from Grand Mean	Sample SA90 CPV
2BF48X		5.200	-0.093	-0.49	5.100	-0.099	-0.53
2CXQKQ		5.100	-0.193	-1.01	5.000	-0.199	-1.06
2PXU7Z		5.250	-0.043	-0.22	5.100	-0.099	-0.53
2QVPNM		5.700	0.407	2.13	5.550	0.351	1.87
3AM7AW		5.360	0.067	0.35	5.250	0.051	0.27
42L92J		5.440	0.147	0.77	5.290	0.091	0.49
497VVJ		5.325	0.032	0.17	5.225	0.026	0.14
4HXP9L		5.227	-0.066	-0.35	5.081	-0.118	-0.63
4KYTXM		5.300	0.007	0.04	5.200	0.001	0.01
4RWMUZ		5.313	0.020	0.11	5.217	0.018	0.09
69376X		4.900	-0.393	-2.06	4.800	-0.399	-2.12
6ATWCQ		5.335	0.042	0.22	5.200	0.001	0.01
7GBZX6		5.300	0.007	0.04	5.200	0.001	0.01
98WGDQ		5.015	-0.278	-1.46	4.960	-0.239	-1.27
9EHXZF		5.395	0.102	0.54	5.235	0.036	0.19
9HVCBL		5.075	-0.218	-1.14	4.955	-0.244	-1.30
A4VCCW		5.100	-0.193	-1.01	5.050	-0.149	-0.79
ADJ32A		5.240	-0.053	-0.28	5.140	-0.059	-0.31
AK44GM		5.100	-0.193	-1.01	5.000	-0.199	-1.06
APEGWZ		5.200	-0.093	-0.49	5.100	-0.099	-0.53
B9L7M3		5.345	0.052	0.27	5.140	-0.059	-0.31
BFKQU6		5.250	-0.043	-0.22	5.100	-0.099	-0.53
C7UCJ8		5.250	-0.043	-0.22	5.180	-0.019	-0.10
CAPFFE		5.320	0.027	0.14	5.250	0.051	0.27
CGPK3A		5.300	0.007	0.04	5.200	0.001	0.01
CZ4UA2		5.100	-0.193	-1.01	5.000	-0.199	-1.06
DG9J2T		5.200	-0.093	-0.49	5.200	0.001	0.01

ASEV-CTS Wine Industry Interlaboratory Testing Program

Analysis 904

Titratable Acidity

WebCode	Data Flag	Sample SA89 Lab Mean	Sample SA89 Diff from Grand Mean	Sample SA89 CPV	Sample SA90 Lab Mean	Sample SA90 Diff from Grand Mean	Sample SA90 CPV
DNMPFB	*	5.220	-0.073	-0.38	5.280	0.081	0.43
DYRFJ8		5.235	-0.058	-0.30	5.135	-0.064	-0.34
E2ED9P		5.200	-0.093	-0.49	5.100	-0.099	-0.53
F8CMU9	*	5.400	0.107	0.56	5.150	-0.049	-0.26
FFR7CM		5.300	0.007	0.04	5.200	0.001	0.01
HBHJB9		5.200	-0.093	-0.49	5.100	-0.099	-0.53
HJCN6A		5.150	-0.143	-0.75	5.150	-0.049	-0.26
HP4WP4		5.260	-0.033	-0.17	5.295	0.096	0.51
HUV49C	X	5.600	0.307	1.61	5.300	0.101	0.54
J2E8UQ		5.240	-0.053	-0.28	5.120	-0.079	-0.42
JFXPNF		5.500	0.207	1.09	5.400	0.201	1.07
JJVRCA		5.455	0.162	0.85	5.346	0.147	0.78
JR2W37		5.350	0.057	0.30	5.250	0.051	0.27
JYK3YC	*	5.700	0.407	2.13	5.700	0.501	2.67
K737LQ		5.375	0.082	0.43	5.345	0.146	0.78
KPEVYN		5.375	0.082	0.43	5.220	0.021	0.11
KZELJW		5.075	-0.218	-1.14	4.910	-0.289	-1.54
LAG24A	*	4.795	-0.498	-2.61	4.750	-0.449	-2.39
LR3MNZ		5.325	0.032	0.17	5.165	-0.034	-0.18
LX9FHV		5.100	-0.193	-1.01	5.100	-0.099	-0.53
NXY4AP		5.260	-0.033	-0.17	5.150	-0.049	-0.26
P2RRYV	X	5.000	-0.293	-1.53	5.100	-0.099	-0.53
P6PPE9		5.150	-0.143	-0.75	5.050	-0.149	-0.79
PL27LB		5.300	0.007	0.04	5.200	0.001	0.01
PMBRBH		5.350	0.057	0.30	5.275	0.076	0.41
PP6D7U		5.295	0.002	0.01	5.205	0.006	0.03
Q7GQQV		5.220	-0.073	-0.38	5.160	-0.039	-0.21

ASEV-CTS Wine Industry Interlaboratory Testing Program

Analysis 904

Titratable Acidity

WebCode	Data Flag	Sample SA89 Lab Mean	Sample SA89 Diff from Grand Mean	Sample SA89 CPV	Sample SA90 Lab Mean	Sample SA90 Diff from Grand Mean	Sample SA90 CPV
QGF4TW	*	5.810	0.517	2.71	5.730	0.531	2.83
RPF2H6	X	5.980	0.687	3.60	5.815	0.616	3.28
RRLL76		5.440	0.147	0.77	5.325	0.126	0.67
RU92WZ		5.150	-0.143	-0.75	5.050	-0.149	-0.79
TY2KDP		5.300	0.007	0.04	5.300	0.101	0.54
V43DKP		5.200	-0.093	-0.49	5.100	-0.099	-0.53
WKPFEY		5.600	0.307	1.61	5.500	0.301	1.60
WQN6TH		5.600	0.307	1.61	5.500	0.301	1.60
XHFQQF		5.585	0.292	1.53	5.530	0.331	1.76
XVYYAU		5.500	0.207	1.09	5.400	0.201	1.07
XXPGQZ		5.120	-0.173	-0.91	5.100	-0.099	-0.53
YQNJJN	*	5.850	0.557	2.92	5.700	0.501	2.67
YXJJVV		5.285	-0.008	-0.04	5.155	-0.044	-0.23
ZE3WMR		5.100	-0.193	-1.01	5.035	-0.164	-0.87
ZXJ7L8		5.310	0.017	0.09	5.210	0.011	0.06

Summary Statistics

	Sample SA89	Sample SA90
Grand Means	5.2927 g/L as tartaric acid	5.1987 g/L as tartaric acid
Stnd Dev Btwn Labs	0.1908 g/L as tartaric acid	0.1878 g/L as tartaric acid

Statistics based on 66 of 69 reporting participants

Wines tested: SA89: Rose; SA90: Rose

Comments on assigned Data Flags

HUV49C (X) - Inconsistent in testing between samples.

P2RRYV (X) - Inconsistent in testing between samples.

RPF2H6 (X) - Data for both samples are high. Possible Systematic Error.

ASEV-CTS Wine Industry Interlaboratory Testing Program

Analysis 904

Titratable Acidity

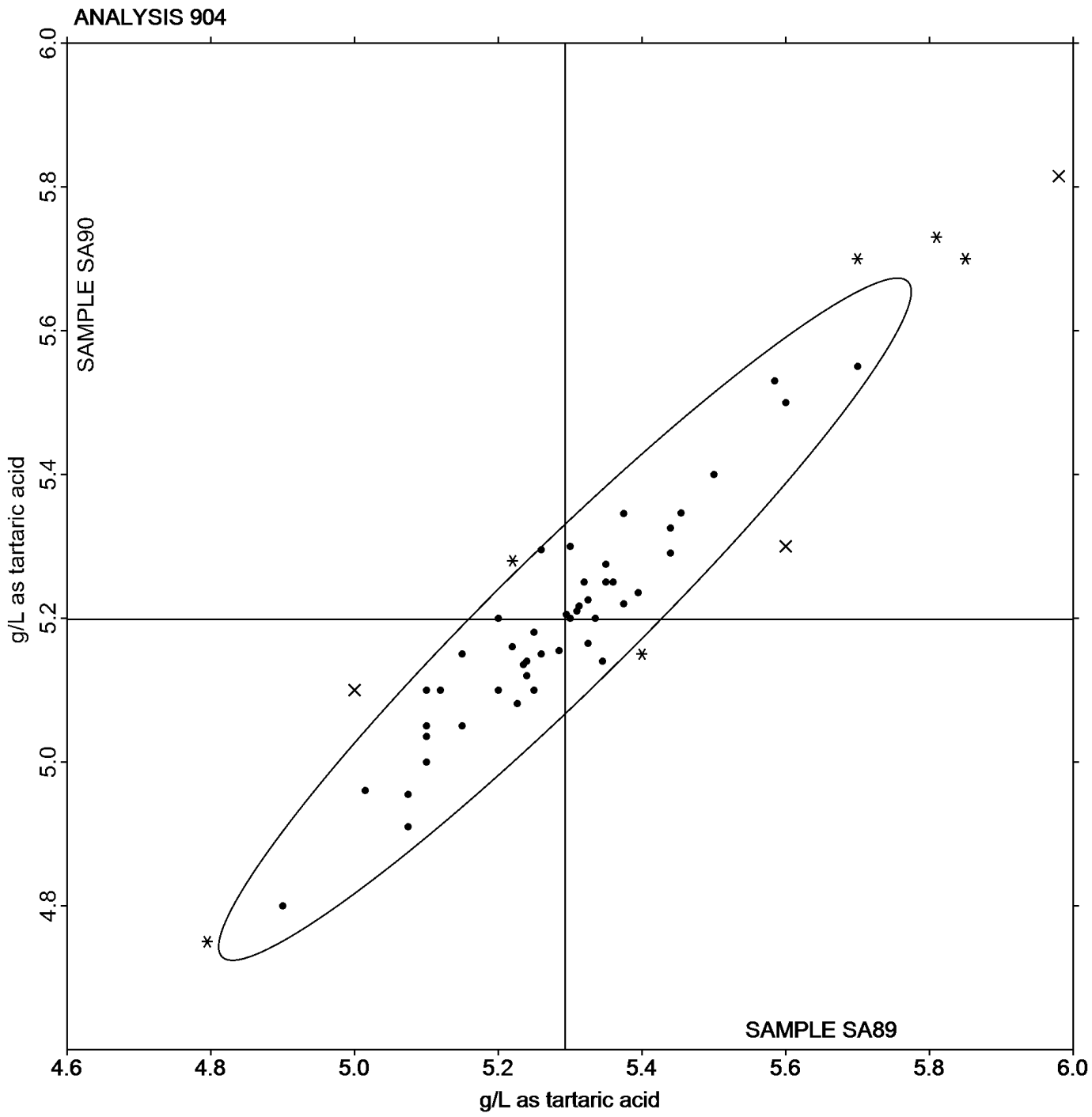
Results by Methodology (as reported by laboratory)

	Sample SA89 *Rose*			Sample SA90 *Rose*				
Test Methodology	Group Mean	Btwn Lab STD	Diff from GM	Group Mean	Btwn Lab STD	Diff from GM	Labs Incl / Rpt	
Autotitration	5.242	0.139	-0.050	5.148	0.145	-0.051	37	41
Manual Titration	5.281	0.130	-0.012	5.193	0.113	-0.005	16	19
FTIR	5.414	0.162	0.121	5.290	0.151	0.091	6	8
Segmented Flow Analyzer	5.600	0.000	0.307	5.500	0.000	0.301	1	1

ASEV-CTS Wine Industry Interlaboratory Testing Program

Analysis 904

Titratable Acidity



ASEV-CTS Wine Industry Interlaboratory Testing Program

Analysis 905

Volatile Acidity

WebCode	Data Flag	Sample SA89 Lab Mean	Sample SA89 Diff from Grand Mean	Sample SA89 CPV	Sample SA90 Lab Mean	Sample SA90 Diff from Grand Mean	Sample SA90 CPV
2BF48X		0.3050	0.0584	0.73	0.2500	0.0558	0.66
2CXQKQ		0.1600	-0.0866	-1.09	0.0900	-0.1042	-1.22
2PXU7Z		0.1700	-0.0766	-0.96	0.1200	-0.0742	-0.87
2QVPNM		0.2700	0.0234	0.29	0.2100	0.0158	0.19
3AM7AW		0.3050	0.0584	0.73	0.2550	0.0608	0.71
42L92J		0.1900	-0.0566	-0.71	0.1300	-0.0642	-0.75
497VVJ		0.2750	0.0284	0.36	0.2300	0.0358	0.42
4HXP9L		0.2140	-0.0326	-0.41	0.1530	-0.0412	-0.48
4KYTXM	*	0.3000	0.0534	0.67	0.2000	0.0058	0.07
4RWMUZ	*	0.3500	0.1034	1.30	0.3500	0.1558	1.83
69376X		0.2100	-0.0366	-0.46	0.1450	-0.0492	-0.58
6ATWCQ		0.1670	-0.0796	-1.00	0.1027	-0.0915	-1.07
7GBZX6		0.2900	0.0434	0.55	0.2400	0.0458	0.54
98WGDQ		0.2350	-0.0116	-0.15	0.1650	-0.0292	-0.34
9EHXZF		0.3500	0.1034	1.30	0.2650	0.0708	0.83
9HVCBL		0.2250	-0.0216	-0.27	0.1950	0.0008	0.01
A4VCCW		0.2450	-0.0016	-0.02	0.2000	0.0058	0.07
AK44GM		0.4000	0.1534	1.93	0.3650	0.1708	2.00
APEGWZ		0.1850	-0.0616	-0.77	0.1200	-0.0742	-0.87
B9L7M3		0.3750	0.1284	1.61	0.3000	0.1058	1.24
BFKQU6		0.2700	0.0234	0.29	0.2200	0.0258	0.30
C7UCJ8		0.2150	-0.0316	-0.40	0.1900	-0.0042	-0.05
CAPFFE	X	0.4600	0.2134	2.68	0.5000	0.3058	3.59
CGPK3A		0.2250	-0.0216	-0.27	0.1700	-0.0242	-0.28
CZ4UA2		0.1700	-0.0766	-0.96	0.1250	-0.0692	-0.81
DG9J2T		0.2550	0.0084	0.11	0.2050	0.0108	0.13
E2ED9P		0.1700	-0.0766	-0.96	0.1100	-0.0842	-0.99

ASEV-CTS Wine Industry Interlaboratory Testing Program

Analysis 905

Volatile Acidity

		Sample SA89			Sample SA90		
WebCode	Data Flag	Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
F8CMU9	X	0.2800	0.0334	0.42	0.0500	-0.1442	-1.69
FFR7CM		0.2550	0.0084	0.11	0.1950	0.0008	0.01
HBHJB9		0.1600	-0.0866	-1.09	0.1000	-0.0942	-1.10
HJCN6A	*	0.3900	0.1434	1.80	0.3900	0.1958	2.30
HP4WP4		0.2600	0.0134	0.17	0.2000	0.0058	0.07
HUV49C	*	0.4200	0.1734	2.18	0.3450	0.1508	1.77
J2E8UQ		0.1600	-0.0866	-1.09	0.1100	-0.0842	-0.99
JFXPNF	*	0.2200	-0.0266	-0.33	0.2200	0.0258	0.30
JJVRCA		0.1665	-0.0801	-1.01	0.1030	-0.0912	-1.07
JR2W37		0.3100	0.0634	0.80	0.2400	0.0458	0.54
K737LQ		0.1950	-0.0516	-0.65	0.1500	-0.0442	-0.52
KPEVYN		0.1500	-0.0966	-1.21	0.0900	-0.1042	-1.22
KZELJW		0.2400	-0.0066	-0.08	0.2000	0.0058	0.07
LAG24A		0.1800	-0.0666	-0.84	0.1650	-0.0292	-0.34
LR3MNZ		0.1650	-0.0816	-1.02	0.1000	-0.0942	-1.10
NXY4AP		0.1500	-0.0966	-1.21	0.0900	-0.1042	-1.22
P2RRYV		0.1900	-0.0566	-0.71	0.1200	-0.0742	-0.87
P6PPE9		0.2050	-0.0416	-0.52	0.1350	-0.0592	-0.69
PL27LB		0.2850	0.0384	0.48	0.2150	0.0208	0.24
PMBRBH		0.2760	0.0294	0.37	0.2500	0.0558	0.66
PP6D7U		0.1700	-0.0766	-0.96	0.1100	-0.0842	-0.99
Q7GQQV	X	0.2600	0.0134	0.17	0.2850	0.0908	1.07
QGF4TW		0.1710	-0.0756	-0.95	0.1015	-0.0927	-1.09
RPF2H6		0.4125	0.1659	2.08	0.3750	0.1808	2.12
RRLL76		0.2750	0.0284	0.36	0.2350	0.0408	0.48
RU92WZ		0.4050	0.1584	1.99	0.3550	0.1608	1.89
TY2KDP		0.1550	-0.0916	-1.15	0.0900	-0.1042	-1.22

ASEV-CTS Wine Industry Interlaboratory Testing Program

Analysis 905

Volatile Acidity

WebCode	Data Flag	Sample SA89 Lab Mean	Sample SA89 Diff from Grand Mean	Sample SA89 CPV	Sample SA90 Lab Mean	Sample SA90 Diff from Grand Mean	Sample SA90 CPV
V43DKP		0.2300	-0.0166	-0.21	0.1750	-0.0192	-0.22
WKPFEY		0.2500	0.0034	0.04	0.1800	-0.0142	-0.17
XAXEDF		0.2050	-0.0416	-0.52	0.1800	-0.0142	-0.17
XHFQQF		0.1600	-0.0866	-1.09	0.1000	-0.0942	-1.10
XVYYAU	X	0.3600	0.1134	1.42	0.4300	0.2358	2.77
XXPGQZ		0.3450	0.0984	1.24	0.3150	0.1208	1.42
YQNJJN		0.4250	0.1784	2.24	0.3750	0.1808	2.12
ZE3WMR		0.1600	-0.0866	-1.09	0.1000	-0.0942	-1.10
ZXJ7L8		0.2800	0.0334	0.42	0.2400	0.0458	0.54

Summary Statistics

	Sample SA89		Sample SA90	
Grand Means	0.24656	g/L as acetic acid	0.19416	g/L as acetic acid
Stnd Dev Btwn Labs	0.07962	g/L as acetic acid	0.08525	g/L as acetic acid

Statistics based on 59 of 63 reporting participants

Wines tested: SA89: Rose; SA90: Rose

Comments on assigned Data Flags

CAPFFE (X) - Inconsistent in testing between samples, data for Sample SA90 are high.

F8CMU9 (X) - Inconsistent in testing between samples.

Q7GQQV (X) - Inconsistent in testing between samples.

XVYYAU (X) - Inconsistent in testing between samples, data for Sample SA90 are high.

ASEV-CTS Wine Industry Interlaboratory Testing Program

Analysis 905

Volatile Acidity

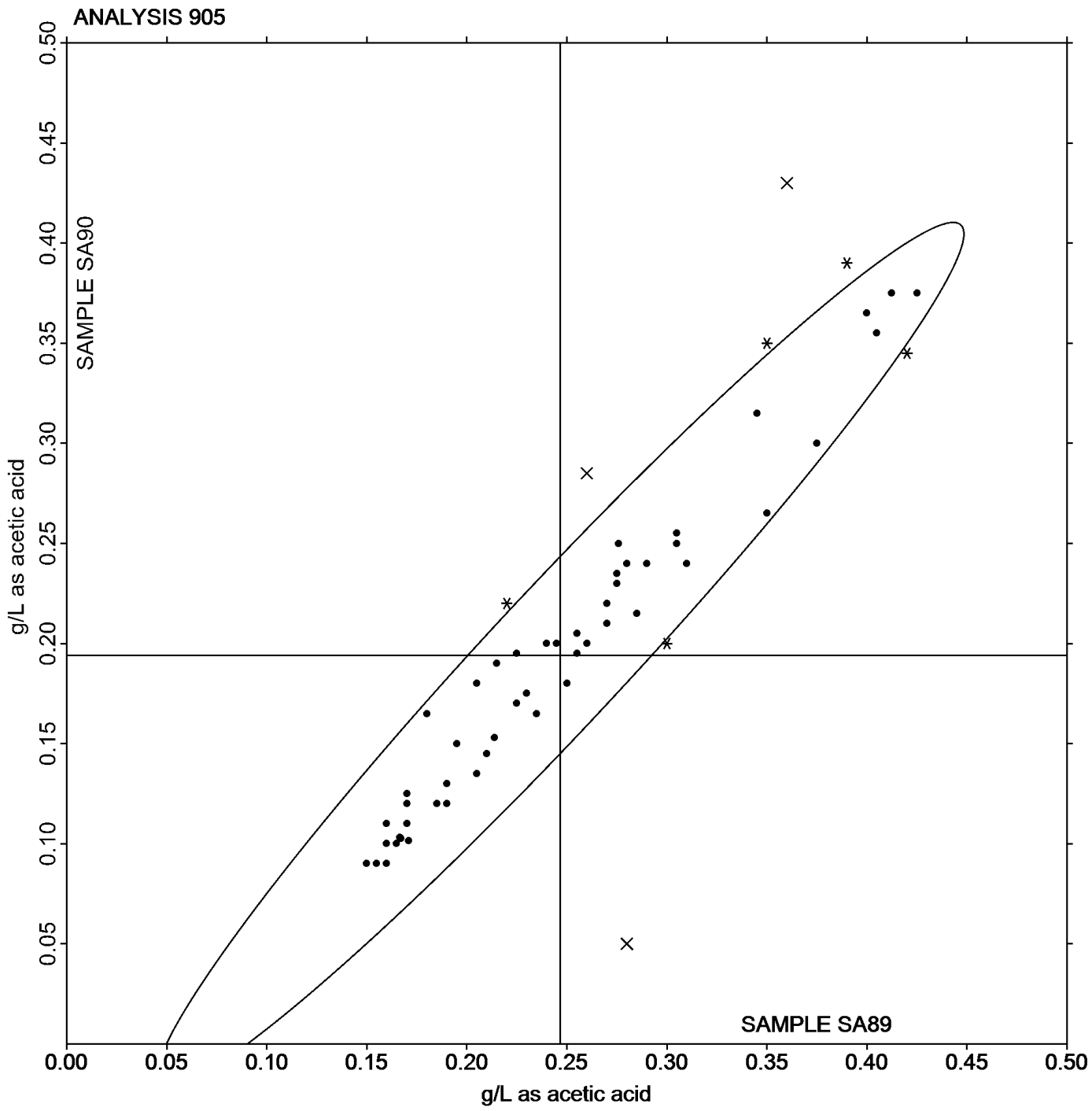
Results by Methodology (as reported by laboratory)

	Sample SA89 *Rose*			Sample SA90 *Rose*				
Test Methodology	Group Mean	Btwn Lab STD	Diff from GM	Group Mean	Btwn Lab STD	Diff from GM	Labs Incl	/ Rpt
Cash Still method	0.2892	0.0675	0.0426	0.2419	0.0678	0.0477	15	22
Enzymatic method	0.1793	0.0284	-0.0672	0.1187	0.0285	-0.0755	19	21
HPLC	0.1670	0.0000	-0.0796	0.1027	0.0000	-0.0915	1	1
GC	0.2150	0.0778	-0.0316	0.1550	0.0919	-0.0392	2	2
Colorimetric Analysis	0.2350	0.0000	-0.0116	0.1650	0.0000	-0.0292	1	1
Seg. Flow / Colorimetric Analyzer	0.2933	0.0589	0.0468	0.2356	0.0628	0.0414	9	9
FTIR	0.2357	0.0899	-0.0108	0.1957	0.0880	0.0016	7	7

ASEV-CTS Wine Industry Interlaboratory Testing Program

Analysis 905

Volatile Acidity



ASEV-CTS Wine Industry Interlaboratory Testing Program

Analysis 906

Specific Gravity

WebCode	Data Flag	Sample SA89 Lab Mean	Sample SA89 Diff from Grand Mean	Sample SA89 CPV	Sample SA90 Lab Mean	Sample SA90 Diff from Grand Mean	Sample SA90 CPV
2BF48X		1.009	0.000	-0.08	1.008	0.000	-0.05
2CXQKQ		1.009	0.000	0.30	1.009	0.000	0.35
2PXU7Z		1.007	-0.002	-2.28	1.007	-0.002	-2.34
2QVPNM		1.010	0.001	1.28	1.009	0.001	1.25
3AM7AW		1.009	0.000	0.26	1.009	0.000	0.11
42L92J	*	1.007	-0.002	-2.47	1.007	-0.002	-2.34
497VVJ		1.009	0.000	0.50	1.009	0.000	0.62
4HXP9L	X	1.009	0.000	0.24	1.007	-0.002	-2.07
4KYTXM		1.009	0.000	0.27	1.009	0.000	0.28
4RWMUZ	X	1.008	-0.001	-1.33	1.007	-0.002	-2.13
69376X		1.008	-0.001	-0.92	1.008	-0.001	-0.99
6ATWCQ		1.009	0.000	0.63	1.009	0.000	0.62
7GBZX6		1.009	0.000	0.30	1.009	0.000	0.34
98WGDQ	X	1.009	0.000	-0.27	1.008	-0.001	-1.26
9EHXZF		1.009	0.000	0.04	1.009	0.000	0.19
9HVCBL		1.010	0.001	1.02	1.009	0.001	0.89
A4VCCW		1.009	0.000	0.24	1.009	0.000	0.35
AK44GM		1.009	0.000	0.20	1.009	0.000	0.31
APEGWZ		1.009	0.000	0.11	1.009	0.000	0.22
B9L7M3		1.009	0.000	0.24	1.009	0.000	0.28
BFKQU6		1.009	0.000	-0.27	1.008	0.000	-0.59
C7UCJ8		1.009	0.000	0.24	1.009	0.000	0.25
CAPFFE		1.009	0.000	0.26	1.009	0.000	0.25
CGPK3A		1.009	0.000	-0.15	1.008	0.000	-0.19
CZ4UA2		1.009	0.000	0.36	1.009	0.000	0.36
DG9J2T		1.007	-0.002	-2.06	1.007	-0.002	-2.20
DNMPFB		1.010	0.001	1.92	1.010	0.001	1.76

ASEV-CTS Wine Industry Interlaboratory Testing Program

Analysis 906

Specific Gravity

WebCode	Data Flag	Sample SA89 Lab Mean	Sample SA89 Diff from Grand Mean	Sample SA89 CPV	Sample SA90 Lab Mean	Sample SA90 Diff from Grand Mean	Sample SA90 CPV
DYRFJ8		1.009	0.000	0.24	1.009	0.000	0.22
E2ED9P		1.009	0.000	0.31	1.009	0.000	0.42
F8CMU9		1.009	0.000	0.35	1.009	0.000	0.12
FFR7CM		1.009	0.000	0.26	1.009	0.000	0.28
GPRZ26	X	1.009	0.000	0.22	1.010	0.001	1.44
HBHJB9	*	1.007	-0.001	-1.82	1.007	-0.001	-1.53
HJCN6A		1.007	-0.002	-1.95	1.007	-0.002	-2.07
HP4WP4		1.009	0.000	-0.02	1.008	0.000	0.01
HUV49C		1.010	0.001	1.41	1.009	0.001	1.16
J2E8UQ	X	1.010	0.001	1.15	1.009	0.000	0.35
JFXPNF		1.009	0.000	0.24	1.009	0.000	0.35
JR2W37	*	1.009	0.000	0.33	1.009	0.001	0.71
K737LQ		1.009	0.000	0.27	1.009	0.000	0.28
KZELJW		1.009	0.000	-0.05	1.008	0.000	-0.01
LAG24A		1.007	-0.002	-2.47	1.007	-0.002	-2.47
LR3MNZ		1.009	0.001	0.82	1.009	0.000	0.62
LX9FHV	X	1.008	-0.001	-0.79	1.007	-0.001	-1.40
NXY4AP	*	1.007	-0.002	-2.60	1.006	-0.002	-2.67
P2RRYV	*	1.009	0.001	0.76	1.009	0.001	1.16
P6PPE9		1.009	0.000	0.22	1.009	0.000	0.24
PL27LB	X	1.009	0.000	0.38	1.007	-0.002	-2.05
PMBRBH		1.009	0.000	0.40	1.009	0.000	0.36
PP6D7U		1.009	0.000	0.50	1.009	0.000	0.48
Q7GQQV		1.009	0.000	0.37	1.009	0.000	0.35
RPF2H6	X	2.300	1.291	1,667.86	2.300	1.292	1,735.70
RU92WZ		1.009	0.000	0.44	1.009	0.000	0.47
V43DKP		1.009	0.000	0.32	1.009	0.000	0.32

ASEV-CTS Wine Industry Interlaboratory Testing Program

Analysis 906

Specific Gravity

WebCode	Data Flag	Sample SA89 Lab Mean	Sample SA89 Diff from Grand Mean	Sample SA89 CPV	Sample SA90 Lab Mean	Sample SA90 Diff from Grand Mean	Sample SA90 CPV
WKPFEY		1.009	0.000	0.37	1.009	0.000	0.35
WQN6TH		1.009	0.000	0.26	1.009	0.000	0.26
XAXEDF		1.009	0.000	0.24	1.009	0.000	0.22
XHFQQF	X	1.010	0.001	1.40	1.010	0.002	2.23
XVYYAU		1.010	0.001	1.53	1.010	0.001	1.43
YQNJJN		1.008	0.000	-0.60	1.008	0.000	-0.66
YXJJVV		1.009	0.000	0.11	1.009	0.000	0.22
ZE3WMR	X	1.009	0.000	0.37	1.069	0.061	81.39
ZXJ7L8		1.009	0.000	-0.21	1.008	0.000	-0.32

Summary Statistics

	Sample SA89	Sample SA90
Grand Means	1.0087 sp gr 20/20 C	1.0084 sp gr 20/20 C
Stnd Dev Btwn Labs	0.0008 sp gr 20/20 C	0.0007 sp gr 20/20 C

Statistics based on 53 of 63 reporting participants

Wines tested: SA89: Rose; SA90: Rose

Comments on assigned Data Flags

4HXP9L (X) - Inconsistent in testing between samples.

4RWMUZ (X) - Inconsistent in testing between samples.

98WGDQ (X) - Inconsistent in testing between samples.

GPRZ26 (X) - Inconsistent in testing between samples and inconsistent within the determinations for Sample SA89.

J2E8UQ (X) - Inconsistent in testing between samples.

LX9FHV (X) - Inconsistent in testing between samples.

PL27LB (X) - Inconsistent in testing between samples.

RPF2H6 (X) - Data for both samples are high.

XHFQQF (X) - Inconsistent in testing between samples.

ZE3WMR (X) - Inconsistent in testing between samples, data for Sample SA90 are high.

ASEV-CTS Wine Industry Interlaboratory Testing Program

Analysis 907

pH

WebCode	Data Flag	Sample SA89 Lab Mean	Sample SA89 Diff from Grand Mean	Sample SA89 CPV	Sample SA90 Lab Mean	Sample SA90 Diff from Grand Mean	Sample SA90 CPV
2BF48X		3.255	-0.017	-0.60	3.300	0.007	0.23
2CXQKQ		3.270	-0.002	-0.07	3.290	-0.003	-0.10
2PXU7Z		3.270	-0.002	-0.07	3.295	0.002	0.07
2QVPNM		3.275	0.003	0.11	3.300	0.007	0.23
3AM7AW		3.235	-0.037	-1.31	3.235	-0.058	-1.94
42L92J		3.260	-0.012	-0.42	3.280	-0.013	-0.44
497VVJ		3.280	0.008	0.29	3.300	0.007	0.23
4HXP9L		3.272	0.000	-0.01	3.279	-0.015	-0.49
4RWMUZ		3.260	-0.012	-0.42	3.280	-0.013	-0.44
69376X		3.250	-0.022	-0.77	3.280	-0.013	-0.44
6ATWCQ		3.320	0.048	1.71	3.335	0.042	1.41
7GBZX6		3.280	0.008	0.29	3.300	0.007	0.23
98WGDQ		3.290	0.018	0.64	3.310	0.017	0.57
9EHXZF		3.290	0.018	0.64	3.305	0.012	0.40
9HVCBL	X	3.250	-0.022	-0.77	3.315	0.022	0.74
A4VCCW		3.255	-0.017	-0.60	3.280	-0.013	-0.44
ADJ32A		3.240	-0.032	-1.13	3.250	-0.043	-1.44
AK44GM		3.310	0.038	1.35	3.340	0.047	1.57
APEGWZ	*	3.210	-0.062	-2.19	3.250	-0.043	-1.44
B9L7M3		3.320	0.048	1.71	3.340	0.047	1.57
BFKQU6	*	3.260	-0.012	-0.42	3.250	-0.043	-1.44
C7UCJ8		3.250	-0.022	-0.77	3.280	-0.013	-0.44
CAPFFE		3.230	-0.042	-1.48	3.235	-0.058	-1.94
CGPK3A		3.250	-0.022	-0.77	3.270	-0.023	-0.77
CZ4UA2		3.270	-0.002	-0.07	3.290	-0.003	-0.10
DG9J2T		3.300	0.028	1.00	3.320	0.027	0.90
DNMPFB		3.330	0.058	2.06	3.355	0.062	2.08

ASEV-CTS Wine Industry Interlaboratory Testing Program

Analysis 907

pH

WebCode	Data Flag	Sample SA89 Lab Mean	Sample SA89 Diff from Grand Mean	Sample SA89 CPV	Sample SA90 Lab Mean	Sample SA90 Diff from Grand Mean	Sample SA90 CPV
DYRFJ8		3.275	0.003	0.11	3.300	0.007	0.23
E2ED9P		3.305	0.033	1.17	3.320	0.027	0.90
F8CMU9		3.250	-0.022	-0.77	3.270	-0.023	-0.77
FFR7CM		3.300	0.028	1.00	3.330	0.037	1.24
HBHJB9		3.300	0.028	1.00	3.330	0.037	1.24
HJCN6A	X	3.210	-0.062	-2.19	3.265	-0.028	-0.94
HP4WP4	*	3.265	-0.007	-0.24	3.315	0.022	0.74
HUV49C		3.260	-0.012	-0.42	3.290	-0.003	-0.10
J2E8UQ		3.300	0.028	1.00	3.325	0.032	1.07
JFXPNF		3.230	-0.042	-1.48	3.230	-0.063	-2.11
JJVRCA	*	3.255	-0.017	-0.62	3.307	0.014	0.45
JR2W37		3.270	-0.002	-0.07	3.300	0.007	0.23
JYK3YC		3.240	-0.032	-1.13	3.265	-0.028	-0.94
K737LQ		3.270	-0.002	-0.07	3.285	-0.008	-0.27
KPEVYN	*	3.340	0.068	2.42	3.350	0.057	1.91
KZELJW		3.220	-0.052	-1.84	3.245	-0.048	-1.61
LAG24A		3.290	0.018	0.64	3.310	0.017	0.57
LR3MNZ		3.265	-0.007	-0.24	3.285	-0.008	-0.27
LX9FHV		3.230	-0.042	-1.48	3.245	-0.048	-1.61
NXY4AP		3.270	-0.002	-0.07	3.290	-0.003	-0.10
P2RRYV		3.320	0.048	1.71	3.340	0.047	1.57
P6PPE9		3.275	0.003	0.11	3.300	0.007	0.23
PL27LB		3.245	-0.027	-0.95	3.270	-0.023	-0.77
PMBRBH		3.250	-0.022	-0.77	3.265	-0.028	-0.94
PP6D7U		3.280	0.008	0.29	3.300	0.007	0.23
Q7GQQV		3.245	-0.027	-0.95	3.250	-0.043	-1.44
QGF4TW		3.290	0.018	0.64	3.310	0.017	0.57

ASEV-CTS Wine Industry Interlaboratory Testing Program

Analysis 907

pH

WebCode	Data Flag	Sample SA89 Lab Mean	Sample SA89 Diff from Grand Mean	Sample SA89 CPV	Sample SA90 Lab Mean	Sample SA90 Diff from Grand Mean	Sample SA90 CPV
RPF2H6		3.275	0.003	0.11	3.300	0.007	0.23
RRLL76		3.275	0.003	0.11	3.310	0.017	0.57
RU92WZ		3.285	0.013	0.47	3.305	0.012	0.40
TY2KDP		3.265	-0.007	-0.24	3.290	-0.003	-0.10
V43DKP		3.280	0.008	0.29	3.300	0.007	0.23
WKPFEY		3.300	0.028	1.00	3.300	0.007	0.23
XAXEDF		3.250	-0.022	-0.77	3.270	-0.023	-0.77
XHFQQF		3.285	0.013	0.47	3.310	0.017	0.57
XVYYAU		3.215	-0.057	-2.02	3.235	-0.058	-1.94
XXPGQZ		3.300	0.028	1.00	3.310	0.017	0.57
YQNJJN		3.320	0.048	1.71	3.330	0.037	1.24
YXJJVV	X	3.310	0.038	1.35	3.285	-0.008	-0.27
ZE3WMR		3.270	-0.002	-0.07	3.290	-0.003	-0.10
ZXJ7L8		3.280	0.008	0.29	3.320	0.027	0.90

Summary Statistics

	Sample SA89	Sample SA90
Grand Means	3.2719 pH	3.2930 pH
Stnd Dev Btwn Labs	0.0282 pH	0.0298 pH

Statistics based on 65 of 68 reporting participants

Wines tested: SA89: Rose; SA90: Rose

Comments on assigned Data Flags

9HVCBL (X) - Inconsistent in testing between samples and inconsistent within the determinations for Sample SA89.

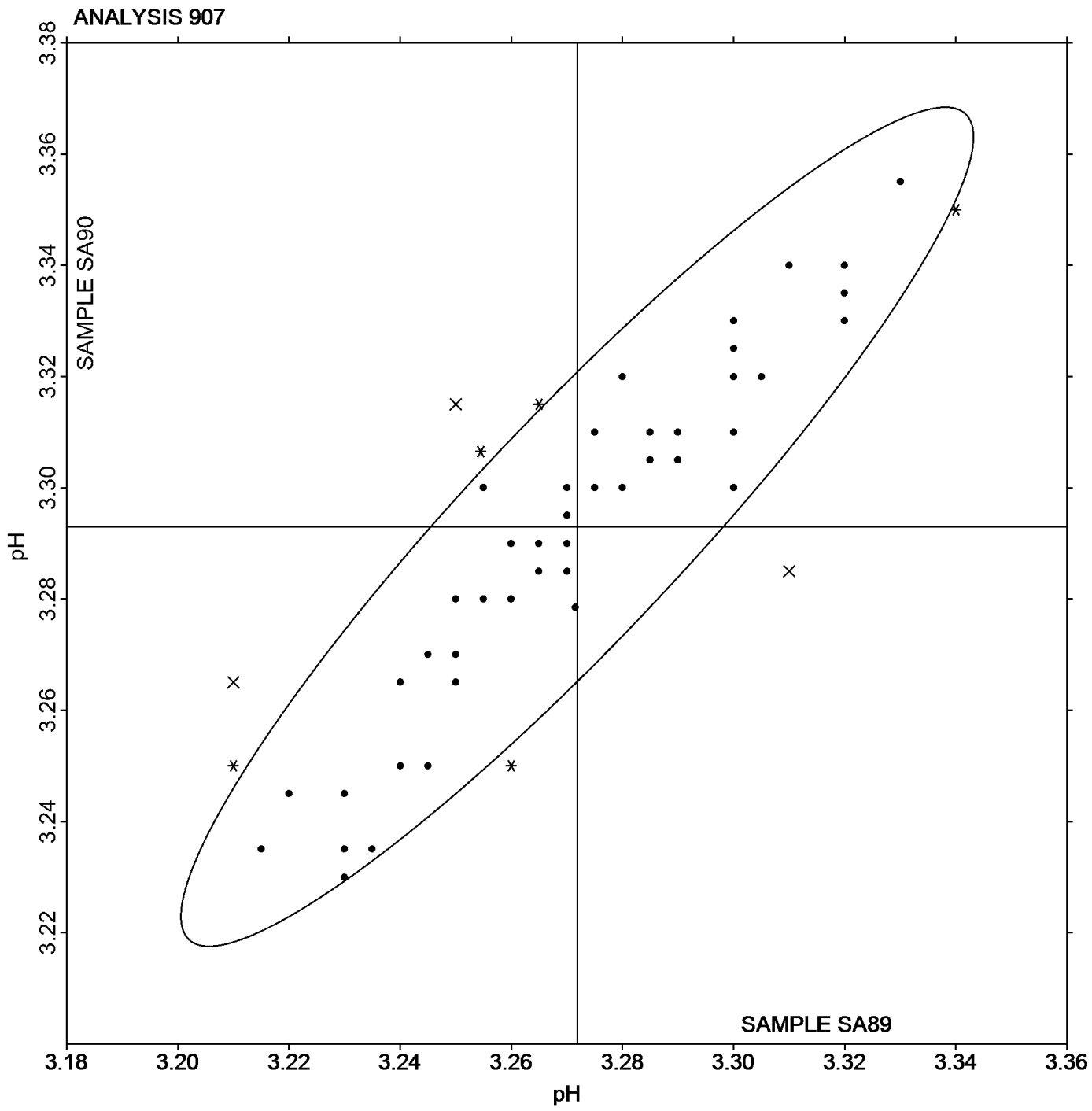
HJCN6A (X) - Inconsistent in testing between samples.

YXJJVV (X) - Inconsistent in testing between samples and inconsistent within the determinations for Sample SA89.

ASEV-CTS Wine Industry Interlaboratory Testing Program

Analysis 907

pH



ASEV-CTS Wine Industry Interlaboratory Testing Program

Analysis 908

Residual Sugar

WebCode	Data Flag	Sample SA89 Lab Mean	Sample SA89 Diff from Grand Mean	Sample SA89 CPV	Sample SA90 Lab Mean	Sample SA90 Diff from Grand Mean	Sample SA90 CPV
3AM7AW		33.00	-0.84	-0.37	32.85	-0.59	-0.30
42L92J		33.40	-0.44	-0.19	32.85	-0.59	-0.30
6ATWCQ		34.69	0.85	0.38	34.03	0.59	0.30
98WGDQ		33.41	-0.43	-0.19	33.47	0.03	0.02
BFKQU6		36.00	2.16	0.96	34.80	1.36	0.69
C7UCJ8		35.05	1.21	0.54	34.55	1.11	0.56
CAPFFE		32.95	-0.89	-0.39	33.20	-0.24	-0.12
E2ED9P	X	0.00	-33.83	-14.96	0.00	-33.44	-16.85
FFR7CM		31.80	-2.04	-0.90	33.00	-0.44	-0.22
HBHJB9		34.10	0.26	0.12	33.80	0.36	0.18
JFXPNF		32.80	-1.04	-0.46	32.90	-0.54	-0.27
KZELJW		33.14	-0.70	-0.31	32.99	-0.45	-0.23
LAG24A		38.98	5.14	2.27	38.55	5.11	2.57
LX9FHV	*	34.90	1.06	0.47	31.00	-2.44	-1.23
Q7GQQV		28.80	-5.04	-2.23	29.29	-4.15	-2.09
WKPFEY		37.00	3.16	1.40	36.00	2.56	1.29
XAXEDF		31.80	-2.04	-0.90	32.00	-1.44	-0.73
YQNJJN		33.40	-0.44	-0.19	33.20	-0.24	-0.12

Summary Statistics

	Sample SA89	Sample SA90
Grand Means	33.836 g/L	33.439 g/L
Stnd Dev Btwn Labs	2.261 g/L	1.984 g/L

Statistics based on 17 of 18 reporting participants

Wines tested: SA89: Rose; SA90: Rose

Comments on assigned Data Flags

E2ED9P (X) - Extreme data. Data may be off by a factor of 10000.

ASEV-CTS Wine Industry Interlaboratory Testing Program

Analysis 908

Residual Sugar

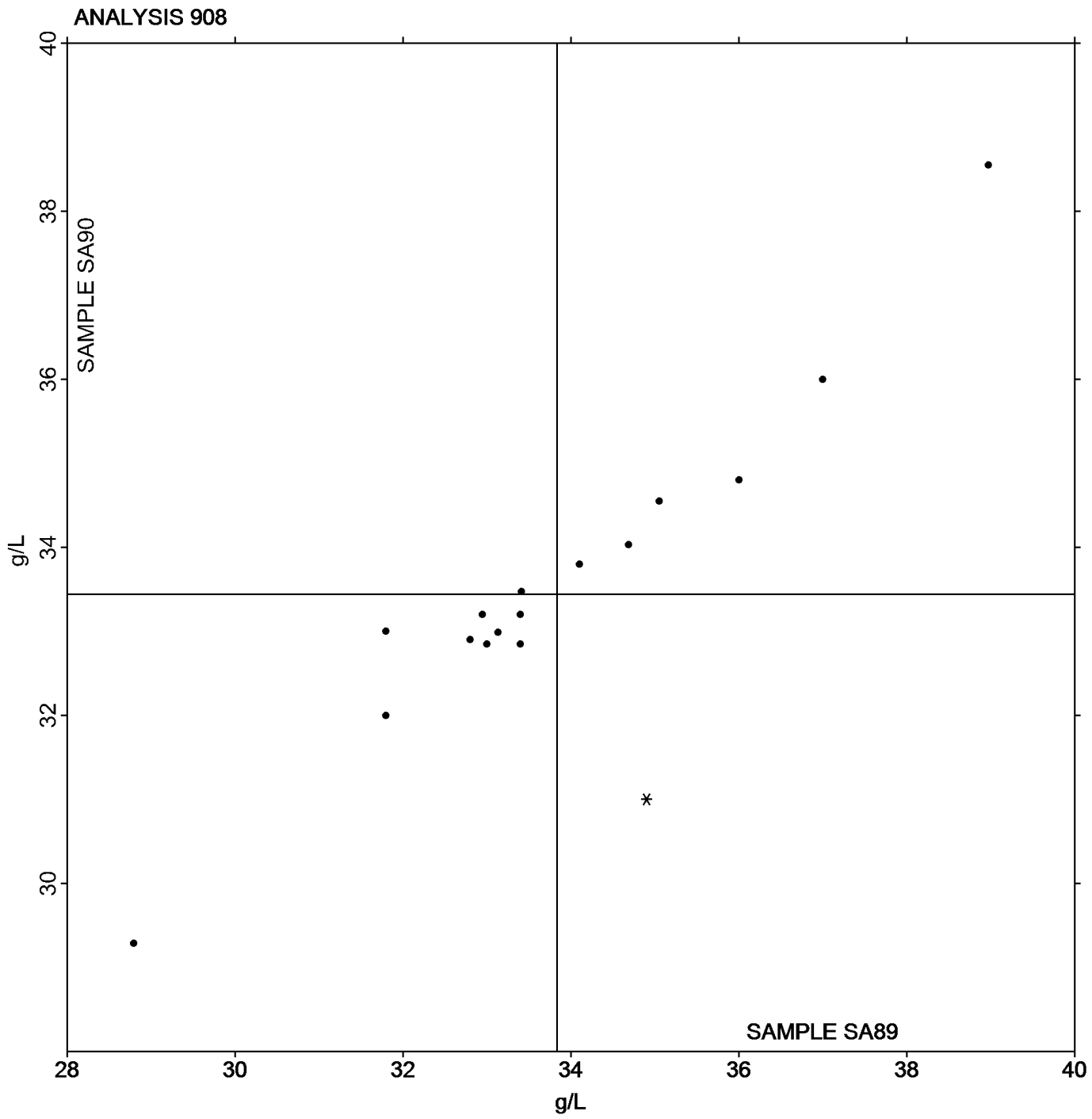
Results by Methodology (as reported by laboratory)

	Sample SA89 *Rose*			Sample SA90 *Rose*				
Test Methodology	Group Mean	Btwn Lab STD	Diff from GM	Group Mean	Btwn Lab STD	Diff from GM	Labs Incl	/ Rpt
Cu Reduction Method	32.99	2.12	-0.85	32.77	1.65	-0.67	8	9
Segmented Flow	34.40	3.68	0.56	34.50	2.12	1.06	2	2
FTIR	35.14	2.69	1.30	34.82	2.58	1.38	4	5
Other _____	33.53	0.81	-0.31	33.50	0.42	0.06	2	2

ASEV-CTS Wine Industry Interlaboratory Testing Program

Analysis 908

Residual Sugar



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

Analysis 909

L-Malic Acid

WebCode	Data Flag	Sample SA89 Lab Mean	Sample SA89 Diff from Grand Mean	Sample SA89 CPV	Sample SA90 Lab Mean	Sample SA90 Diff from Grand Mean	Sample SA90 CPV
2BF48X		1.560	-0.165	-1.16	1.505	-0.239	-1.63
2CXQKQ		1.700	-0.025	-0.18	1.705	-0.039	-0.27
2PXU7Z		1.910	0.185	1.30	1.910	0.166	1.13
42L92J	*	2.130	0.405	2.85	2.190	0.446	3.03
497VVJ		1.725	0.000	0.00	1.740	-0.004	-0.03
4HXP9L		1.615	-0.110	-0.77	1.615	-0.129	-0.88
4RWMUZ		1.497	-0.228	-1.60	1.552	-0.192	-1.31
69376X		1.580	-0.145	-1.02	1.595	-0.149	-1.02
6ATWCQ	X	1.700	-0.025	-0.17	1.877	0.133	0.90
7GBZX6		1.730	0.005	0.04	1.775	0.031	0.21
98WGDQ	X	1.595	-0.130	-0.91	1.930	0.186	1.26
9EHXZF		1.840	0.115	0.81	1.870	0.126	0.85
9HVCBL	X	1.917	0.192	1.35	2.153	0.409	2.78
A4VCCW		1.540	-0.185	-1.30	1.570	-0.174	-1.19
ADJ32A		1.750	0.025	0.18	1.790	0.046	0.31
AK44GM		1.795	0.070	0.49	1.825	0.081	0.55
APEGWZ		1.630	-0.095	-0.67	1.665	-0.079	-0.54
B9L7M3		1.695	-0.030	-0.21	1.755	0.011	0.07
BFKQU6		1.695	-0.030	-0.21	1.705	-0.039	-0.27
C7UCJ8		1.680	-0.045	-0.32	1.780	0.036	0.24
CGPK3A		1.790	0.065	0.46	1.725	-0.019	-0.13
CZ4UA2		1.730	0.005	0.03	1.740	-0.005	-0.03
DG9J2T		1.560	-0.165	-1.16	1.535	-0.209	-1.42
E2ED9P		1.714	-0.011	-0.07	1.754	0.010	0.07
F8CMU9	X	1.728	0.003	0.02	1.901	0.157	1.07
HBHJB9		1.695	-0.030	-0.21	1.740	-0.004	-0.03
HJCN6A		1.795	0.070	0.49	1.820	0.076	0.51

ASEV-CTS Wine Industry Interlaboratory Testing Program

Analysis 909

L-Malic Acid

WebCode	Data Flag	Sample SA89 Lab Mean	Sample SA89 Diff from Grand Mean	Sample SA89 CPV	Sample SA90 Lab Mean	Sample SA90 Diff from Grand Mean	Sample SA90 CPV
HP4WP4		1.730	0.005	0.04	1.750	0.006	0.04
HUV49C		1.660	-0.065	-0.46	1.660	-0.084	-0.57
J2E8UQ		1.785	0.060	0.42	1.815	0.071	0.48
JJVRCA	*	2.025	0.300	2.11	1.970	0.226	1.54
JR2W37		2.078	0.353	2.48	2.109	0.364	2.48
JYK3YC		1.640	-0.085	-0.60	1.650	-0.094	-0.64
K737LQ		1.930	0.205	1.44	1.990	0.246	1.67
KPEVYN		1.795	0.070	0.49	1.805	0.061	0.41
KZELJW	*	1.360	-0.365	-2.56	1.315	-0.429	-2.92
LAG24A	X	1.440	-0.285	-2.00	1.640	-0.104	-0.71
LR3MNZ		1.565	-0.160	-1.12	1.565	-0.179	-1.22
LX9FHV	X	1.010	-0.715	-5.03	0.974	-0.770	-5.24
NXY4AP		1.565	-0.160	-1.12	1.615	-0.129	-0.88
P2RRYV		1.707	-0.018	-0.13	1.714	-0.030	-0.21
PL27LB		1.780	0.055	0.39	1.825	0.081	0.55
PMBRBH		1.722	-0.003	-0.02	1.770	0.025	0.17
PP6D7U		1.707	-0.018	-0.13	1.732	-0.012	-0.08
QGF4TW		1.642	-0.083	-0.59	1.683	-0.061	-0.42
RPF2H6	X	2.580	0.855	6.01	2.610	0.866	5.89
RRLL76		1.775	0.050	0.35	1.825	0.081	0.55
RU92WZ		1.700	-0.025	-0.18	1.650	-0.094	-0.64
TY2KDP		1.585	-0.140	-0.98	1.640	-0.104	-0.71
V43DKP	*	1.938	0.213	1.49	1.875	0.131	0.89
XAXEDF		1.800	0.075	0.53	1.850	0.106	0.72
XHFQQF		1.790	0.065	0.46	1.780	0.036	0.24
XVYYAU		1.720	-0.005	-0.03	1.745	0.001	0.00
YQNJJN		1.865	0.140	0.98	1.850	0.106	0.72

ASEV-CTS Wine Industry Interlaboratory Testing Program

Analysis 909

L-Malic Acid

WebCode	Data Flag	Sample SA89 Lab Mean	Sample SA89 Diff from Grand Mean	Sample SA89 CPV	Sample SA90 Lab Mean	Sample SA90 Diff from Grand Mean	Sample SA90 CPV
YXJJVV		1.637	-0.088	-0.62	1.700	-0.045	-0.31
ZE3WMR		1.703	-0.022	-0.15	1.740	-0.005	-0.03
ZXJ7L8		1.690	-0.035	-0.25	1.735	-0.009	-0.06

Summary Statistics

	SA89	SA90
Grand Means	1.7250 g/L	1.7443 g/L
Stnd Dev Btwn Labs	0.1424 g/L	0.1470 g/L

Statistics based on 50 of 57 reporting participants

Wines tested: SA89: Rose; SA90: Rose

Comments on assigned Data Flags

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

98WGDQ (X) - Inconsistent in testing between samples.

9HVCBL (X) - Inconsistent in testing between samples.

F8CMU9 (X) - Inconsistent in testing between samples.

LAG24A (X) - Inconsistent in testing between samples.

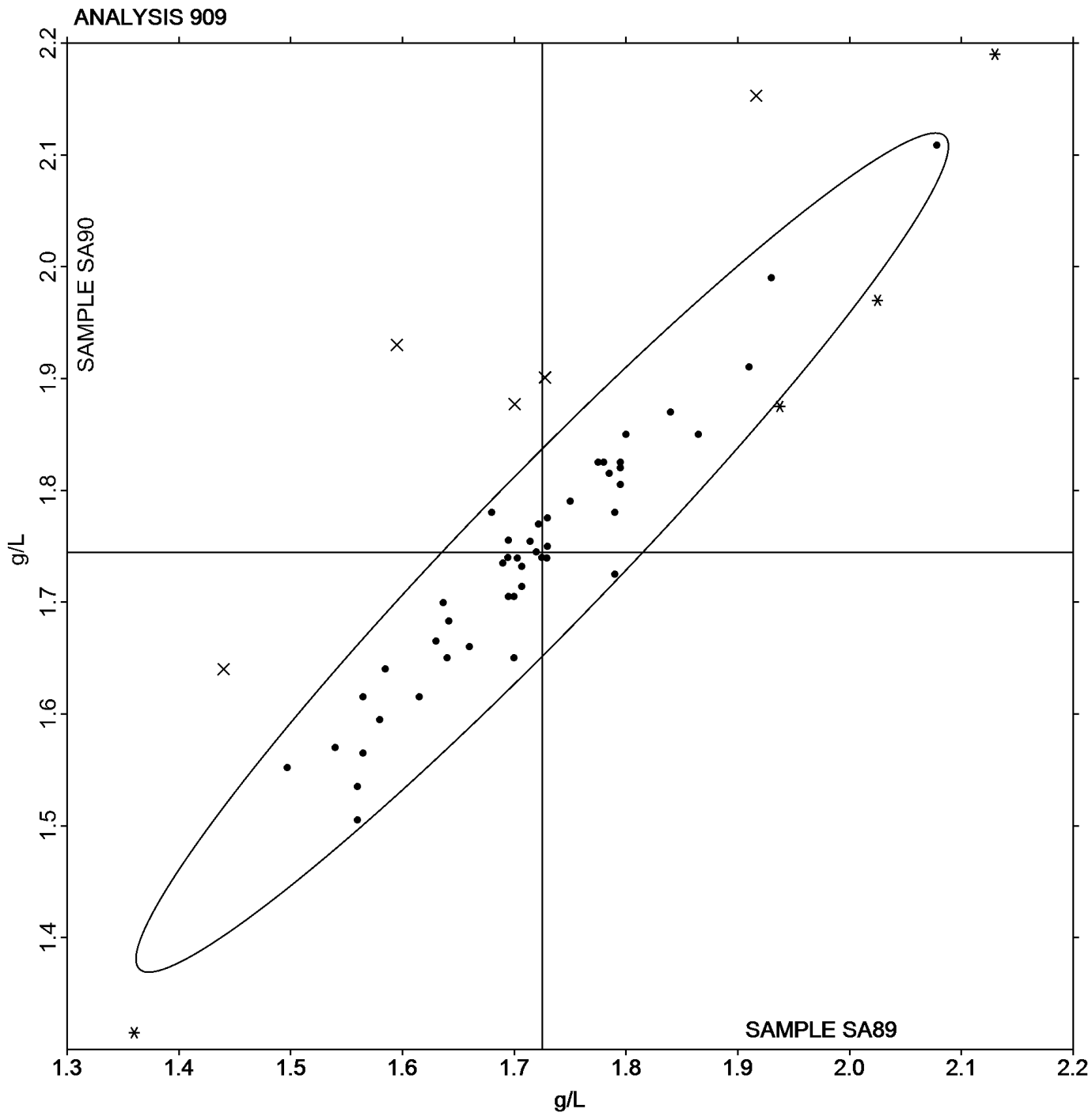
LX9FHV (X) - Data for both samples are low.

RPF2H6 (X) - Data for both samples are high.

ASEV-CTS Wine Industry Interlaboratory Testing Program

Analysis 909

L-Malic Acid



ASEV-CTS Wine Industry Interlaboratory Testing Program

Analysis 910

Glucose + Fructose

WebCode	Data Flag	Sample SA89 Lab Mean	Sample SA89 Diff from Grand Mean	Sample SA89 CPV	Sample SA90 Lab Mean	Sample SA90 Diff from Grand Mean	Sample SA90 CPV
2BF48X		32.98	-1.34	-0.80	33.41	-0.30	-0.16
2CXQKQ		33.33	-0.99	-0.59	32.57	-1.13	-0.60
2PXU7Z		34.25	-0.07	-0.04	33.30	-0.40	-0.21
2QVPNM	X	24.55	-9.77	-5.82	26.55	-7.15	-3.79
42L92J		35.15	0.83	0.50	34.97	1.27	0.67
497VVJ		31.40	-2.92	-1.74	31.45	-2.25	-1.19
4HXP9L		34.42	0.10	0.06	32.83	-0.87	-0.46
4KYTXM		34.90	0.58	0.35	34.25	0.55	0.29
4RWMUZ		35.37	1.05	0.63	34.33	0.62	0.33
69376X	*	30.51	-3.81	-2.27	28.07	-5.64	-2.99
6ATWCQ	X	27.92	-6.39	-3.81	30.01	-3.69	-1.95
7GBZX6		34.10	-0.22	-0.13	34.10	0.40	0.21
9EHXZF		36.20	1.88	1.12	35.65	1.95	1.03
9HVCBL		34.83	0.51	0.31	33.24	-0.46	-0.25
A4VCCW		32.45	-1.87	-1.11	31.25	-2.45	-1.30
ADJ32A		31.55	-2.77	-1.65	30.90	-2.80	-1.48
AK44GM		37.28	2.96	1.76	38.03	4.32	2.29
APEGWZ		36.60	2.28	1.36	36.40	2.70	1.43
B9L7M3		34.40	0.08	0.05	34.18	0.47	0.25
C7UCJ8		32.20	-2.12	-1.26	31.40	-2.30	-1.22
CAPFFE	X	41.80	7.48	4.46	40.45	6.75	3.57
CGPK3A		37.98	3.66	2.18	38.00	4.29	2.27
CZ4UA2		35.35	1.03	0.62	34.65	0.95	0.50
DG9J2T	*	30.68	-3.64	-2.17	31.09	-2.61	-1.38
E2ED9P	X	0.00	-34.31	-20.44	0.00	-33.70	-17.84
F8CMU9		34.53	0.21	0.12	34.11	0.41	0.21
HJCN6A	*	33.27	-1.05	-0.63	34.61	0.90	0.48

ASEV-CTS Wine Industry Interlaboratory Testing Program

Analysis 910

Glucose + Fructose

		Sample SA89			Sample SA90		
WebCode	Data Flag	Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
HP4WP4		35.25	0.93	0.56	33.03	-0.68	-0.36
J2E8UQ		35.35	1.03	0.62	33.35	-0.35	-0.19
JYK3YC	X	23.80	-10.52	-6.27	24.20	-9.50	-5.03
K737LQ		35.25	0.93	0.56	33.20	-0.50	-0.27
KPEVYN		35.15	0.83	0.50	34.50	0.80	0.42
KZELJW		32.85	-1.47	-0.87	32.43	-1.28	-0.68
LR3MNZ		33.70	-0.62	-0.37	34.45	0.75	0.39
NXY4AP		34.70	0.38	0.23	33.50	-0.20	-0.11
P2RRYV		34.37	0.05	0.03	33.70	0.00	0.00
P6PPE9		32.23	-2.09	-1.24	31.38	-2.33	-1.23
PL27LB		36.10	1.78	1.06	35.35	1.65	0.87
PMBRBH		35.97	1.65	0.98	36.30	2.60	1.37
PP6D7U		35.40	1.08	0.65	34.85	1.15	0.61
QGF4TW	X	23.34	-10.98	-6.54	23.32	-10.38	-5.50
RPF2H6	X	30.75	-3.57	-2.12	35.45	1.75	0.92
RRLL76		32.95	-1.37	-0.81	31.20	-2.51	-1.33
RU92WZ		34.80	0.48	0.29	34.27	0.56	0.30
TY2KDP		34.00	-0.32	-0.19	33.00	-0.70	-0.37
V43DKP		32.63	-1.69	-1.01	32.50	-1.20	-0.64
WKPFEY		34.45	0.13	0.08	33.95	0.25	0.13
XHFQQF		36.40	2.08	1.24	35.95	2.25	1.19
XVYYAU		36.70	2.38	1.42	35.70	2.00	1.06
YQNJJN		33.30	-1.02	-0.61	32.90	-0.80	-0.43
YXJJVV		34.50	0.18	0.11	34.50	0.80	0.42
ZE3WMR		34.50	0.18	0.11	33.95	0.25	0.13
ZXJ7L8	X	31.05	-3.27	-1.95	34.40	0.70	0.37

ASEV-CTS Wine Industry Interlaboratory Testing Program

Analysis 910

Glucose + Fructose

Summary Statistics

	Sample SA89	Sample SA90
Grand Means	34.316 g/L	33.704 g/L
Stnd Dev Btwn Labs	1.679 g/L	1.889 g/L

Statistics based on 45 of 53 reporting participants

Wines tested: SA89: Rose; SA90: Rose

Comments on assigned Data Flags

2QVPNM (X) - Data for both samples are low.

6ATWCQ (X) - Inconsistent in testing between samples, data for Sample SA89 are low.

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

E2ED9P (X) - Extreme data. Data may be off by a factor of 10000.

JYK3YC (X) - Data for both samples are low.

QGF4TW (X) - Data for both samples are low.

RPF2H6 (X) - Inconsistent in testing between samples.

ZXJ7L8 (X) - Inconsistent in testing between samples and inconsistent within the determinations for Sample SA89.

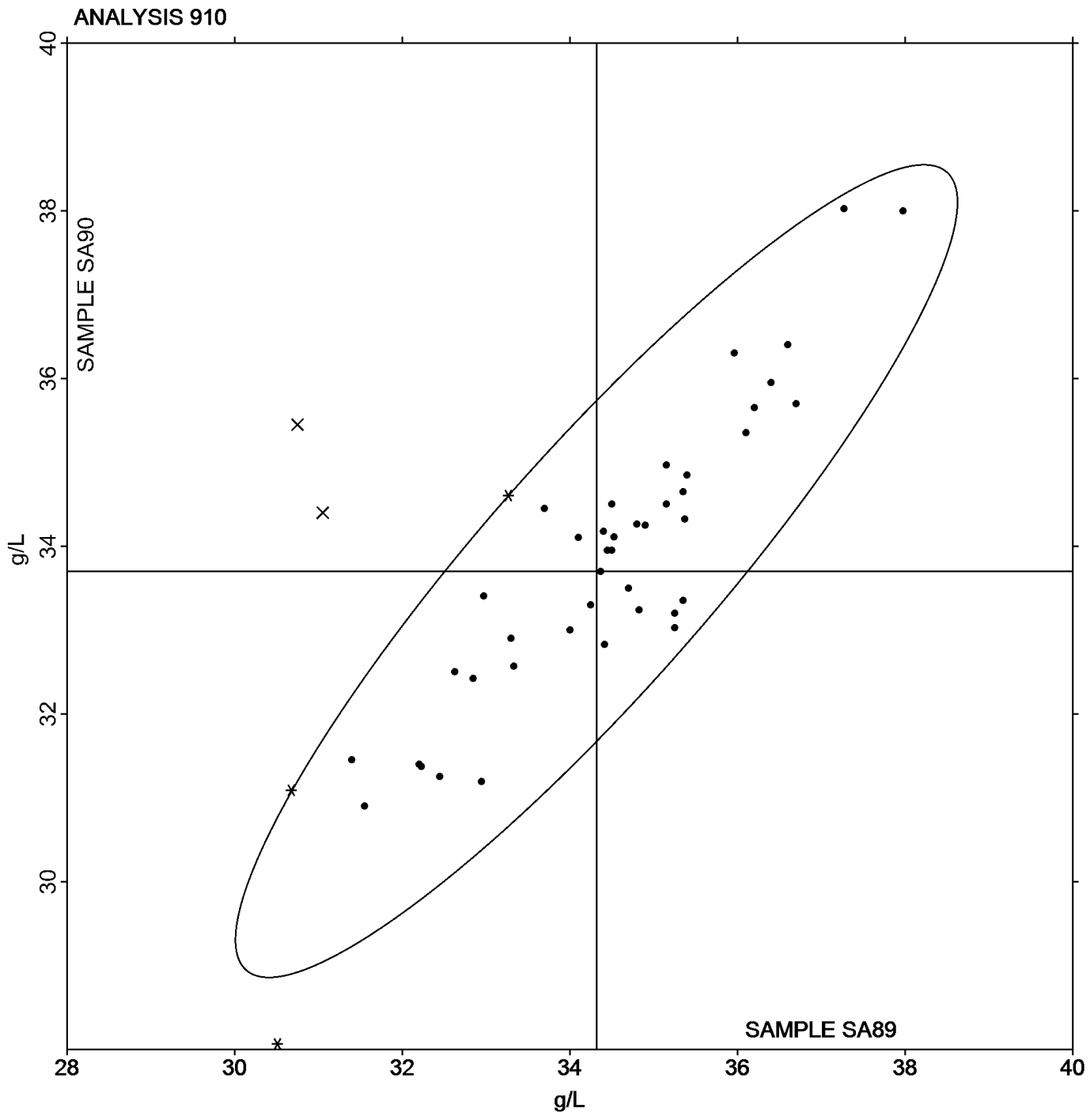
Results by Methodology (as reported by laboratory)

	Sample SA89 *Rose*			Sample SA90 *Rose*				
Test Methodology	**Group Mean**	**Btwn Lab STD**	**Diff from GM**	**Group Mean**	**Btwn Lab STD**	**Diff from GM**	**Labs Incl / Rpt**	
HPLC	34.68	0.32	0.36	34.10	0.21	0.40	2	3
Enzymatic/Spectrophotometric	34.58	1.61	0.26	33.92	1.83	0.22	34	44
Segmented Flow	32.98	0.00	-1.34	33.41	0.00	-0.30	1	1
FTIR	34.34	1.17	0.02	33.60	1.09	-0.11	5	5

ASEV-CTS Wine Industry Interlaboratory Testing Program

Analysis 910

Glucose + Fructose



ASEV-CTS Wine Industry Interlaboratory Testing Program

Analysis 911

Copper Content

WebCode	Data Flag	Sample SA89 Lab Mean	Sample SA89 Diff from Grand Mean	Sample SA89 CPV	Sample SA90 Lab Mean	Sample SA90 Diff from Grand Mean	Sample SA90 CPV
2CXQKQ		0.3135	0.0670	1.53	0.1950	0.0435	1.04
2PXU7Z		0.2250	-0.0215	-0.49	0.1385	-0.0130	-0.31
42L92J		0.1990	-0.0475	-1.08	0.1410	-0.0105	-0.25
6ATWCQ		0.2865	0.0400	0.91	0.1710	0.0195	0.47
7GBZX6		0.2050	-0.0415	-0.95	0.1300	-0.0215	-0.51
B9L7M3		0.1950	-0.0515	-1.17	0.1150	-0.0365	-0.87
C7UCJ8	*	0.2760	0.0295	0.67	0.2352	0.0837	2.00
CGPK3A		0.2800	0.0335	0.77	0.1750	0.0235	0.56
CZ4UA2		0.2400	-0.0065	-0.15	0.1500	-0.0015	-0.03
E2ED9P		0.2800	0.0335	0.77	0.1700	0.0185	0.44
FFR7CM		0.2435	-0.0030	-0.07	0.1480	-0.0035	-0.08
J2E8UQ		0.2530	0.0065	0.15	0.1515	0.0000	0.00
K737LQ		0.2250	-0.0215	-0.49	0.1350	-0.0165	-0.39
KZELJW		0.2170	-0.0295	-0.67	0.1325	-0.0190	-0.45
PMBRBH		0.3450	0.0985	2.25	0.2150	0.0635	1.52
WKPFEY		0.2600	0.0135	0.31	0.1600	0.0085	0.20
WQN6TH		0.2525	0.0060	0.14	0.1530	0.0015	0.04
XAXEDF		0.2300	-0.0165	-0.38	0.1450	-0.0065	-0.15
XHFQQF		0.2150	-0.0315	-0.72	0.1300	-0.0215	-0.51
YQNJJN	*	0.1550	-0.0915	-2.09	0.0200	-0.1315	-3.14
ZE3WMR		0.2800	0.0335	0.77	0.1700	0.0185	0.44

Summary Statistics

	Sample SA89	Sample SA90
Grand Means	0.24648 mg/L	0.15146 mg/L
Stnd Dev Btwn Labs	0.04382 mg/L	0.04192 mg/L

Statistics based on 21 of 21 reporting participants

Wines tested: SA89: Rose; SA90: Rose

ASEV-CTS Wine Industry Interlaboratory Testing Program

Analysis 911

Copper Content

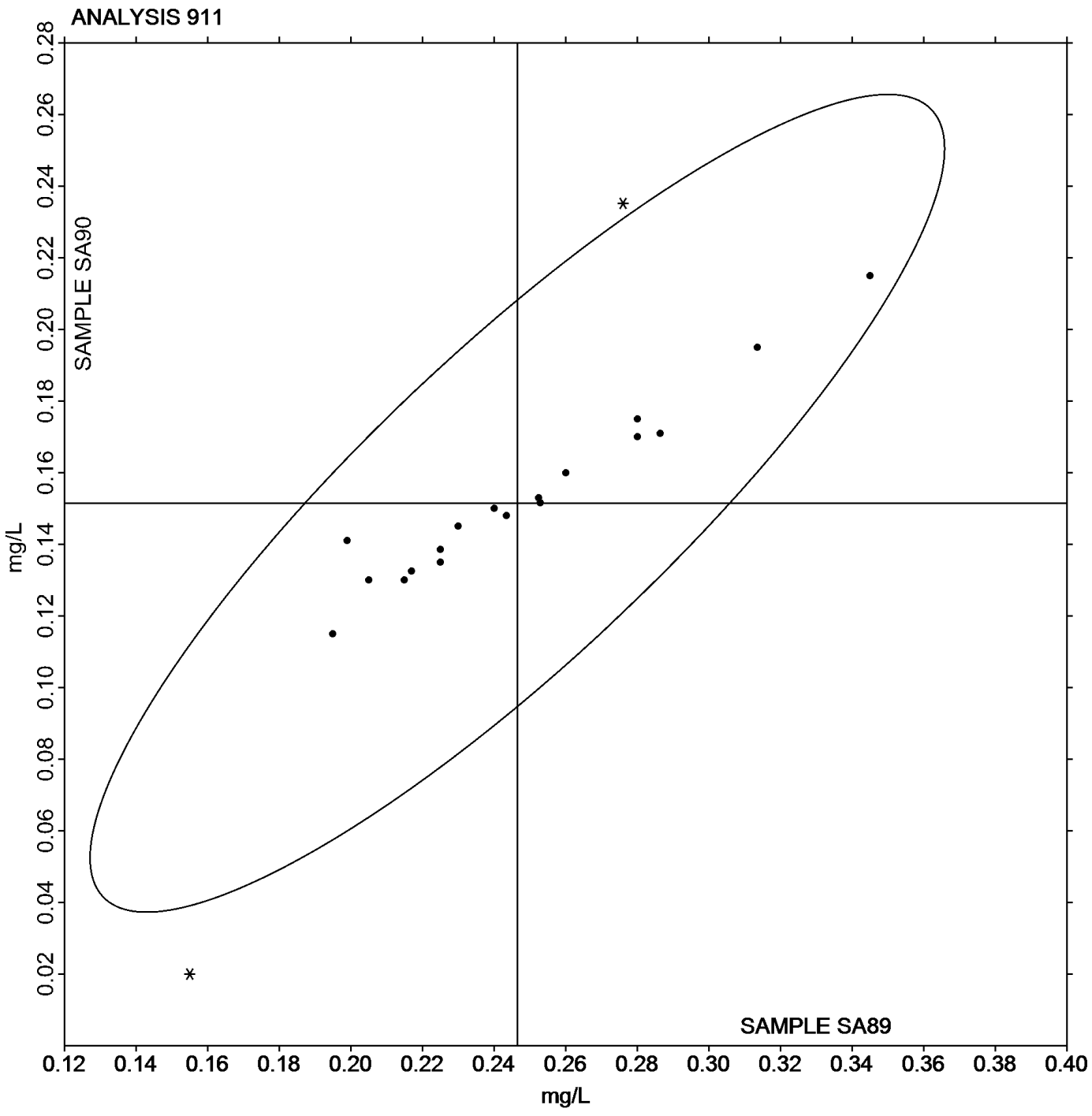
Results by Methodology (as reported by laboratory)

	Sample SA89 *Rose*			Sample SA90 *Rose*				
Test Methodology	Group Mean	Btwn Lab STD	Diff from GM	Group Mean	Btwn Lab STD	Diff from GM	Labs Incl	/ Rpt
Please specify method used	0.2388	0.0194	-0.0077	0.1440	0.0127	-0.0075	2	2
Atomic Absorption Spectroscopy	0.2630	0.0519	0.0165	0.1621	0.0314	0.0106	9	10
ICP-OES	0.2234	0.0132	-0.0231	0.1392	0.0084	-0.0123	5	5
Other _____	0.2612	0.0183	0.0147	0.1610	0.0135	0.0095	3	4

ASEV-CTS Wine Industry Interlaboratory Testing Program

Analysis 911

Copper Content



ASEV-CTS Wine Industry Interlaboratory Testing Program

Analysis 912

Potassium (K) Content

WebCode	Data Flag	Sample SA89 Lab Mean	Sample SA89 Diff from Grand Mean	Sample SA89 CPV	Sample SA90 Lab Mean	Sample SA90 Diff from Grand Mean	Sample SA90 CPV
2CXQKQ	*	970.5	241.7	2.12	913.0	150.0	1.24
2PXU7Z		669.0	-59.8	-0.52	763.5	0.5	0.00
3AM7AW		920.0	191.2	1.68	957.5	194.5	1.61
4KYTXM		661.0	-67.8	-0.59	687.5	-75.5	-0.63
6ATWCQ		688.5	-40.2	-0.35	740.8	-22.2	-0.18
7GBZX6		633.5	-95.3	-0.84	647.5	-115.5	-0.96
B9L7M3		671.0	-57.8	-0.51	712.5	-50.5	-0.42
C7UCJ8		635.0	-93.8	-0.82	680.0	-83.0	-0.69
CGPK3A	*	966.5	237.7	2.08	1,097.0	334.0	2.77
CZ4UA2		704.0	-24.8	-0.22	746.5	-16.5	-0.14
KZELJW		705.0	-23.8	-0.21	740.0	-23.0	-0.19
PMBRBH		750.0	21.2	0.19	777.5	14.5	0.12
V43DKP	X	3,334.5	2,605.7	22.84	2,033.5	1,270.5	10.53
WKPFEY		640.0	-88.8	-0.78	670.0	-93.0	-0.77
WQN6TH		731.0	2.2	0.02	743.0	-20.0	-0.17
XAXEDF		602.5	-126.3	-1.11	622.5	-140.5	-1.17
XHFQQF		726.5	-2.3	-0.02	755.5	-7.5	-0.06
YQNJJN		715.0	-13.8	-0.12	717.5	-45.5	-0.38

Summary Statistics

	Sample SA89	Sample SA90
Grand Means	728.77 mg/L	763.05 mg/L
Stnd Dev Btwn Labs	114.06 mg/L	120.62 mg/L

Statistics based on 17 of 18 reporting participants

Wines tested: SA89: Rose; SA90: Rose

Comments on assigned Data Flags

V43DKP (X) - Extreme data.

ASEV-CTS Wine Industry Interlaboratory Testing Program

Analysis 912

Potassium (K) Content

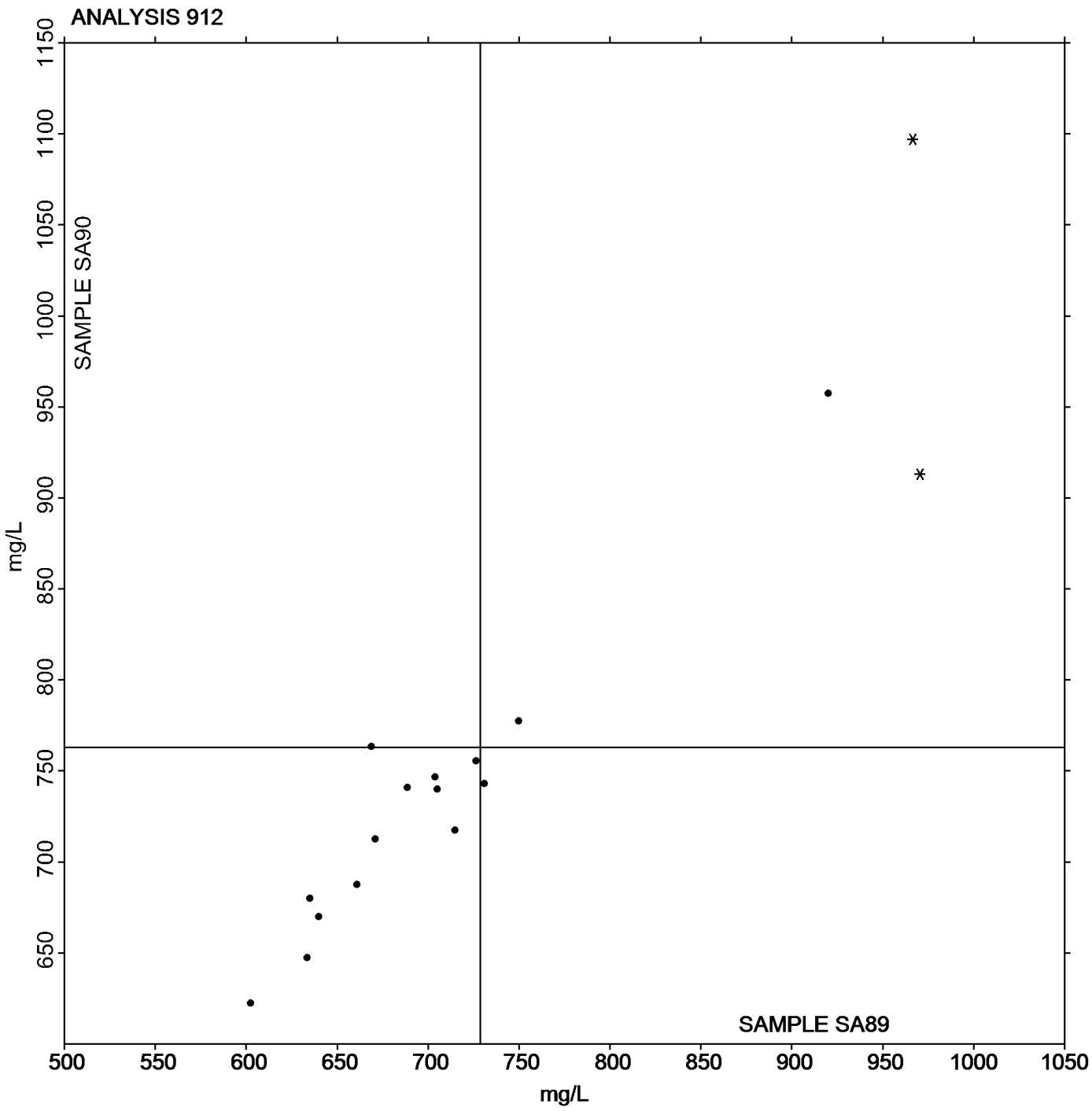
Results by Methodology (as reported by laboratory)

	Sample SA89 *Rose*			Sample SA90 *Rose*				
Test Methodology	Group Mean	Btwn Lab STD	Diff from GM	Group Mean	Btwn Lab STD	Diff from GM	Labs Incl	/ Rpt
Please specify method used	920.0	0.0	191.2	957.5	0.0	194.5	1	1
Atomic Absorption Spectroscopy	704.7	36.1	-24.1	736.1	31.9	-26.9	6	7
ICP-OES	652.3	43.9	-76.5	695.0	70.4	-68.0	4	4
FTIR	710.0	7.1	-18.8	728.8	15.9	-34.3	2	2
Other _____	637.5	3.5	-91.3	675.0	7.1	-88.0	2	4

ASEV-CTS Wine Industry Interlaboratory Testing Program

Analysis 912

Potassium (K) Content



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

ASEV-CTS Wine Industry Interlaboratory Testing Program

Analysis 915

A420nm (1cm path)

WebCode	Data Flag	Sample SA89 Lab Mean	Sample SA89 Diff from Grand Mean	Sample SA89 CPV	Sample SA90 Lab Mean	Sample SA90 Diff from Grand Mean	Sample SA90 CPV
2BF48X		0.1860	0.0033	0.14	0.1940	0.0033	0.15
2PXU7Z		0.1950	0.0123	0.50	0.2015	0.0108	0.48
3AM7AW		0.1950	0.0123	0.50	0.1990	0.0083	0.37
42L92J		0.1710	-0.0117	-0.48	0.1840	-0.0067	-0.30
497VVJ		0.1915	0.0088	0.36	0.2000	0.0093	0.41
4HXP9L	X	0.7910	0.6083	24.74	0.7960	0.6053	26.98
4RWMUZ		0.1850	0.0023	0.09	0.1910	0.0003	0.01
6ATWCQ		0.1664	-0.0163	-0.66	0.1791	-0.0116	-0.52
7GBZX6	*	0.1090	-0.0737	-3.00	0.1200	-0.0707	-3.15
98WGDQ	X	0.3400	0.1573	6.40	0.3600	0.1693	7.55
9EHXZF		0.1940	0.0113	0.46	0.1950	0.0043	0.19
9HVCBL		0.1850	0.0023	0.09	0.1940	0.0033	0.15
A4VCCW		0.1870	0.0043	0.18	0.1925	0.0018	0.08
B9L7M3		0.1920	0.0093	0.38	0.2025	0.0118	0.52
BFKQU6	*	0.2441	0.0614	2.50	0.2429	0.0521	2.32
C7UCJ8		0.1990	0.0163	0.66	0.2090	0.0183	0.81
CAPFFE		0.1860	0.0033	0.14	0.1890	-0.0017	-0.08
CGPK3A		0.1950	0.0123	0.50	0.2050	0.0143	0.64
CZ4UA2		0.2050	0.0223	0.91	0.2135	0.0228	1.01
DG9J2T		0.1845	0.0018	0.07	0.1930	0.0023	0.10
GPRZ26		0.1800	-0.0027	-0.11	0.1870	-0.0037	-0.17
HP4WP4		0.1900	0.0073	0.30	0.2000	0.0093	0.41
J2E8UQ		0.1925	0.0098	0.40	0.2045	0.0138	0.61
K737LQ		0.1990	0.0163	0.66	0.2050	0.0143	0.64
KZELJW		0.1860	0.0033	0.14	0.1905	-0.0002	-0.01
LAG24A		0.1590	-0.0237	-0.96	0.1675	-0.0232	-1.04
LR3MNZ		0.1910	0.0083	0.34	0.1970	0.0063	0.28

ASEV-CTS Wine Industry Interlaboratory Testing Program

Analysis 915

A420nm (1cm path)

WebCode	Data Flag	Sample SA89 Lab Mean	Sample SA89 Diff from Grand Mean	Sample SA89 CPV	Sample SA90 Lab Mean	Sample SA90 Diff from Grand Mean	Sample SA90 CPV
LX9FHV		0.1375	-0.0452	-1.84	0.1490	-0.0417	-1.86
NXY4AP	*	0.1085	-0.0742	-3.02	0.1260	-0.0647	-2.89
PL27LB		0.1890	0.0063	0.26	0.1975	0.0068	0.30
PMBRBH	*	0.1945	0.0118	0.48	0.2100	0.0193	0.86
QGF4TW	X	0.3450	0.1623	6.60	0.3450	0.1543	6.88
RPF2H6		0.1880	0.0053	0.22	0.1965	0.0058	0.26
RU92WZ		0.1755	-0.0072	-0.29	0.1810	-0.0097	-0.43
XAXEDF		0.2065	0.0238	0.97	0.2060	0.0153	0.68
XHFQQF		0.1700	-0.0127	-0.52	0.1800	-0.0107	-0.48
XVYYAU		0.1645	-0.0182	-0.74	0.1750	-0.0157	-0.70
YQNJJN		0.1840	0.0013	0.05	0.1910	0.0003	0.01
ZXJ7L8		0.1905	0.0078	0.32	0.1980	0.0073	0.32

Summary Statistics

	SA89		SA90	
Grand Means	0.18268	Absorbance Units	0.19073	Absorbance Units
Stnd Dev Btwn Labs	0.02459	Absorbance Units	0.02243	Absorbance Units

Statistics based on 36 of 39 reporting participants

Wines tested: SA89: Rose; SA90: Rose

Comments on assigned Data Flags

4HXP9L (X) - Data for both samples are high.

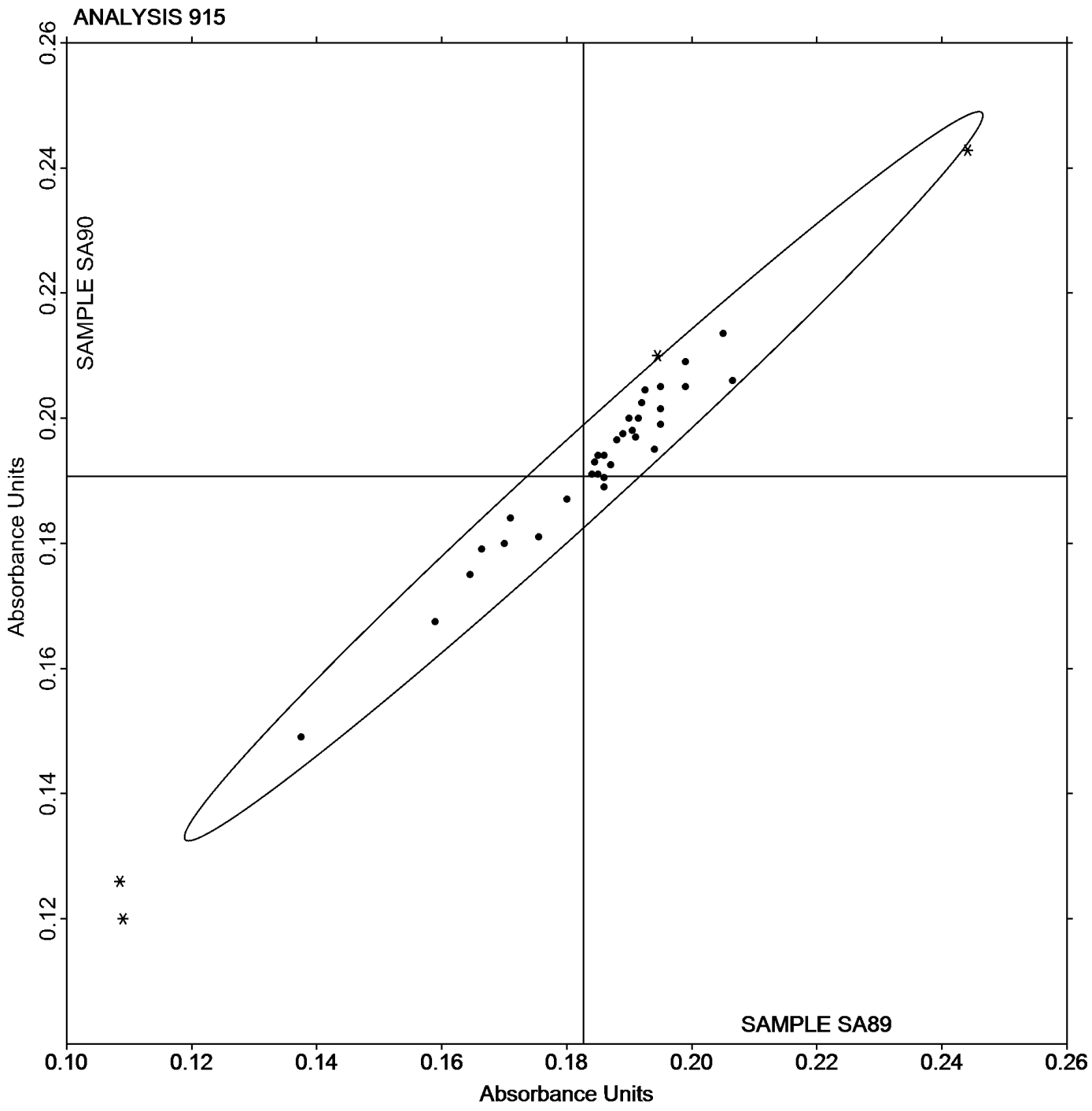
98WGDQ (X) - Data for both samples are high.

QGF4TW (X) - Data for both samples are high.

ASEV-CTS Wine Industry Interlaboratory Testing Program

Analysis 915

A420nm (1cm path)



ASEV-CTS Wine Industry Interlaboratory Testing Program

Analysis 916

A520nm (1cm path)

WebCode	Data Flag	Sample SA89 Lab Mean	Sample SA89 Diff from Grand Mean	Sample SA89 CPV	Sample SA90 Lab Mean	Sample SA90 Diff from Grand Mean	Sample SA90 CPV
2BF48X		0.1415	0.0018	0.09	0.1410	0.0020	0.12
2PXU7Z		0.1455	0.0058	0.30	0.1440	0.0050	0.29
3AM7AW		0.1450	0.0053	0.27	0.1440	0.0050	0.29
42L92J		0.1240	-0.0157	-0.80	0.1290	-0.0100	-0.58
497VVJ		0.1480	0.0083	0.43	0.1440	0.0050	0.29
4HXP9L	X	0.7540	0.6143	31.52	0.7190	0.5800	33.90
4RWMUZ		0.1445	0.0048	0.25	0.1440	0.0050	0.29
6ATWCQ		0.1236	-0.0161	-0.83	0.1295	-0.0095	-0.56
7GBZX6		0.0935	-0.0462	-2.37	0.1020	-0.0370	-2.16
98WGDQ	X	0.2600	0.1203	6.17	0.2800	0.1410	8.24
9EHXZF		0.1495	0.0098	0.50	0.1430	0.0040	0.23
9HVCBL		0.1400	0.0003	0.02	0.1400	0.0010	0.06
A4VCCW		0.1385	-0.0012	-0.06	0.1350	-0.0040	-0.23
B9L7M3		0.1460	0.0063	0.32	0.1465	0.0075	0.44
BFKQU6	*	0.1918	0.0521	2.67	0.1824	0.0434	2.54
C7UCJ8		0.1560	0.0163	0.84	0.1590	0.0200	1.17
CAPFFE		0.1400	0.0003	0.02	0.1380	-0.0010	-0.06
CGPK3A		0.1500	0.0103	0.53	0.1500	0.0110	0.64
CZ4UA2		0.1550	0.0153	0.79	0.1555	0.0165	0.96
DG9J2T		0.1445	0.0048	0.25	0.1425	0.0035	0.20
GPRZ26		0.1330	-0.0067	-0.34	0.1325	-0.0065	-0.38
HP4WP4		0.1600	0.0203	1.04	0.1600	0.0210	1.23
J2E8UQ		0.1450	0.0053	0.27	0.1390	0.0000	0.00
K737LQ		0.1525	0.0128	0.66	0.1495	0.0105	0.61
KZELJW		0.1410	0.0013	0.07	0.1400	0.0010	0.06
LAG24A		0.1270	-0.0127	-0.65	0.1270	-0.0120	-0.70
LR3MNZ		0.1430	0.0033	0.17	0.1390	0.0000	0.00

ASEV-CTS Wine Industry Interlaboratory Testing Program

Analysis 916

A520nm (1cm path)

WebCode	Data Flag	Sample SA89 Lab Mean	Sample SA89 Diff from Grand Mean	Sample SA89 CPV	Sample SA90 Lab Mean	Sample SA90 Diff from Grand Mean	Sample SA90 CPV
LX9FHV	*	0.0935	-0.0462	-2.37	0.0945	-0.0445	-2.60
NXY4AP	*	0.0835	-0.0562	-2.88	0.0925	-0.0465	-2.72
PL27LB		0.1420	0.0023	0.12	0.1405	0.0015	0.09
PMBRBH	*	0.1455	0.0058	0.30	0.1525	0.0135	0.79
QGF4TW	X	0.2500	0.1103	5.66	0.2400	0.1010	5.90
RPF2H6		0.1420	0.0023	0.12	0.1405	0.0015	0.09
RU92WZ		0.1355	-0.0042	-0.21	0.1325	-0.0065	-0.38
XAXEDF		0.1550	0.0153	0.79	0.1470	0.0080	0.47
XHFQQF		0.1500	0.0103	0.53	0.1500	0.0110	0.64
XVYYAU		0.1180	-0.0217	-1.11	0.1170	-0.0220	-1.29
YQNJJN		0.1400	0.0003	0.02	0.1370	-0.0020	-0.12
ZXJ7L8		0.1455	0.0058	0.30	0.1435	0.0045	0.26

Summary Statistics

	Sample SA89		Sample SA90	
Grand Means	0.13969	Absorbance Units	0.13900	Absorbance Units
Stnd Dev Btwn Labs	0.01949	Absorbance Units	0.01711	Absorbance Units

Statistics based on 36 of 39 reporting participants

Wines tested: SA89: Rose; SA90: Rose

Comments on assigned Data Flags

4HXP9L (X) - Data for both samples are high.

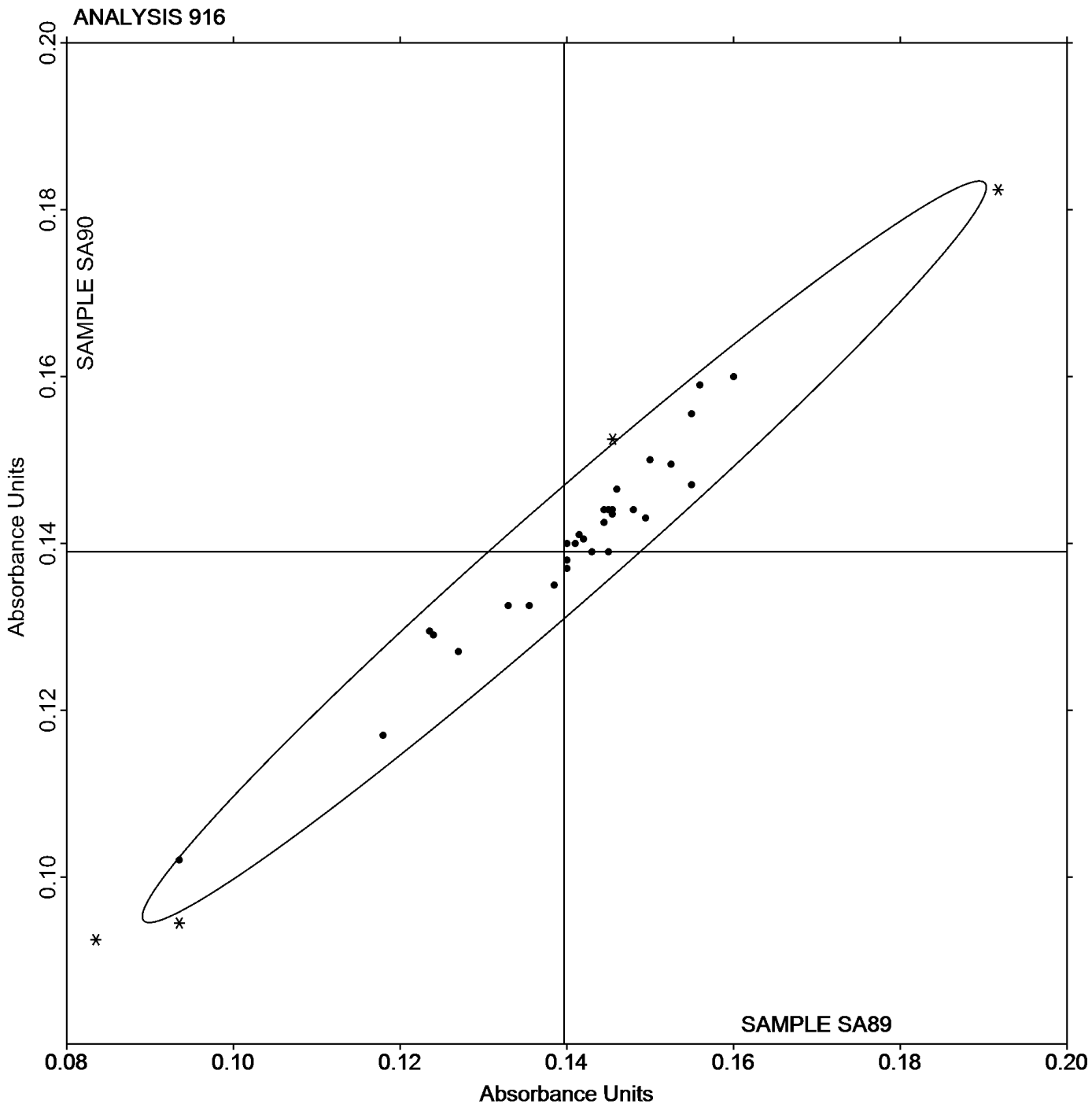
98WGDQ (X) - Data for both samples are high.

QGF4TW (X) - Data for both samples are high.

ASEV-CTS Wine Industry Interlaboratory Testing Program

Analysis 916

A520nm (1cm path)



ASEV-CTS Wine Industry Interlaboratory Testing Program

Research Property 950

Research Property - Turbidity

		Sample SA89			Sample SA90		
WebCode	Data Flag	Lab Mean	Diff from Target Value	% Diff from Target Value	Lab Mean	Diff from Target Value	% Diff from Target Value
2BF48X		0.2310	-0.0175	-7.0%	0.1510	-0.0509	-25.2%
2CXQKQ		0.4325	0.1840	74.0%	0.2330	0.0311	15.4%
2PXU7Z		0.2405	-0.0080	-3.2%	0.2065	0.0046	2.3%
42L92J		0.3000	0.0515	20.7%	0.2000	-0.0019	-0.9%
497VVJ		0.2150	-0.0335	-13.5%	0.1850	-0.0169	-8.4%
4HXP9L		0.1000	-0.1485	-59.8%	0.1200	-0.0819	-40.6%
4RWMUZ		0.2115	-0.0370	-14.9%	0.0945	-0.1074	-53.2%
69376X		0.1710	-0.0775	-31.2%	0.1550	-0.0469	-23.2%
6ATWCQ	*	0.4750	0.2265	91.1%	0.2300	0.0281	13.9%
98WGDQ	*	0.6050	0.3565	143.5%	0.4100	0.2081	103.1%
9EHXZF		0.1450	-0.1035	-41.6%	0.0900	-0.1119	-55.4%
AK44GM		0.0500	-0.1985	-79.9%	0.0600	-0.1419	-70.3%
APEGWZ		0.1555	-0.0930	-37.4%	0.1395	-0.0624	-30.9%
B9L7M3		0.1950	-0.0535	-21.5%	0.2100	0.0081	4.0%
C7UCJ8		0.4800	0.2315	93.2%	0.2500	0.0481	23.8%
CAPFFE		0.2015	-0.0470	-18.9%	0.2615	0.0596	29.5%
CGPK3A		0.4100	0.1615	65.0%	0.3550	0.1531	75.8%
DG9J2T		0.2850	0.0365	14.7%	0.2200	0.0181	9.0%
DNMPFB		0.3000	0.0515	20.7%	0.2900	0.0881	43.6%
DYRFJ8		0.2530	0.0045	1.8%	0.2080	0.0061	3.0%
E2ED9P		0.3455	0.0970	39.0%	0.1665	-0.0354	-17.5%
FFR7CM	*	0.5000	0.2515	101.2%	0.5000	0.2981	147.6%
GPRZ26		0.2695	0.0210	8.5%	0.2795	0.0776	38.4%

ASEV-CTS Wine Industry Interlaboratory Testing Program

Research Property 950

Research Property - Turbidity

		Sample SA89			Sample SA90		
WebCode	Data Flag	Lab Mean	Diff from Target Value	% Diff from Target Value	Lab Mean	Diff from Target Value	% Diff from Target Value
HBHJB9		0.3100	0.0615	24.7%	0.1300	-0.0719	-35.6%
HP4WP4		0.2725	0.0240	9.7%	0.3100	0.1081	53.5%
HUV49C		0.0800	-0.1685	-67.8%	0.1400	-0.0619	-30.7%
J2E8UQ		0.1880	-0.0605	-24.3%	0.1685	-0.0334	-16.5%
K737LQ	*	0.4100	0.1615	65.0%	0.4400	0.2381	117.9%
KZELJW		0.3065	0.0580	23.3%	0.2175	0.0156	7.7%
LR3MNZ		0.2150	-0.0335	-13.5%	0.1815	-0.0204	-10.1%
LX9FHV		0.1150	-0.1335	-53.7%	0.1150	-0.0869	-43.0%
NXY4AP		0.2295	-0.0190	-7.6%	0.2175	0.0156	7.7%
P6PPE9		0.1610	-0.0875	-35.2%	0.1990	-0.0029	-1.4%
PL27LB		0.2800	0.0315	12.7%	0.2350	0.0331	16.4%
PMBRBH		0.2900	0.0415	16.7%	0.2900	0.0881	43.6%
PP6D7U	X	0.2200	-0.0285	-11.5%	0.7600	0.5581	276.4%
QGF4TW		0.1700	-0.0785	-31.6%	0.1455	-0.0564	-27.9%
RPF2H6		0.0150	-0.2335	-94.0%	0.0100	-0.1919	-95.0%
RU92WZ		0.2190	-0.0295	-11.9%	0.2020	0.0001	0.0%
TY2KDP		0.2400	-0.0085	-3.4%	0.1600	-0.0419	-20.8%
XAXEDF		0.0250	-0.2235	-89.9%	0.0250	-0.1769	-87.6%
XHFQQF		0.3000	0.0515	20.7%	0.2000	-0.0019	-0.9%
YQNJJN		0.1305	-0.1180	-47.5%	0.0875	-0.1144	-56.7%
ZE3WMR		0.1540	-0.0945	-38.0%	0.1325	-0.0694	-34.4%
ZXJ7L8		0.2500	0.0015	0.6%	0.2600	0.0581	28.8%

ASEV-CTS Wine Industry Interlaboratory Testing Program

Research Property 950

Research Property - Turbidity

Research Property Target Value

Target Value	**0.24850**	NTU	**0.20190**	NTU

For Test 950, CTS has not chosen to designate a target value for this property instead of using an average value. The consensus average was used.

Wines tested: SA89: Rose; SA90: Rose

Consensus Average (may differ from target value)	0.24847	NTU	0.20185	NTU

This consensus average is based on 44 reporting participants.

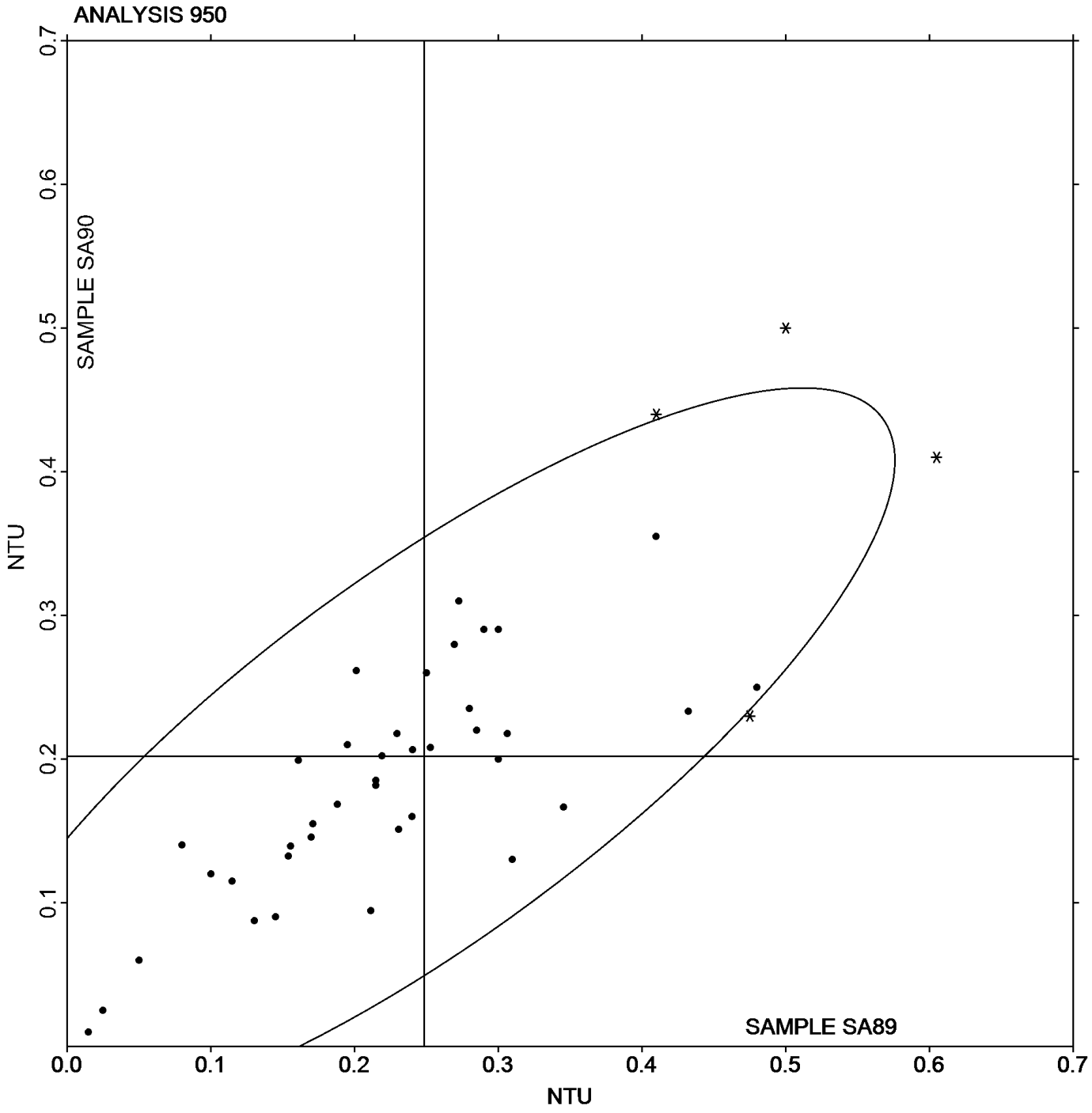
Comments on assigned Data Flags

PP6D7U (X) - High Data for Sample SA90.

ASEV-CTS Wine Industry Interlaboratory Testing Program

Research Property 950

Research Property - Turbidity



ASEV-CTS Wine Industry Interlaboratory Testing Program

Research Property 951

Research Property: A280nm (1cm path)

WebCode	Data Flag	Sample SA89 Lab Mean	Sample SA89 Diff from Target Value	Sample SA89 % Diff from Target Value	Sample SA90 Lab Mean	Sample SA90 Diff from Target Value	Sample SA90 % Diff from Target Value
2BF48X		4.08	-13.69	-77.0%	4.08	-14.00	-77.4%
42L92J		0.66	-17.11	-96.3%	0.66	-17.42	-96.4%
497VVJ		27.62	9.85	55.4%	28.55	10.47	57.9%
4RWMUZ		28.69	10.92	61.4%	29.43	11.35	62.8%
6ATWCQ		3.37	-14.40	-81.0%	3.38	-14.70	-81.3%
98WGDQ		0.12	-17.65	-99.3%	0.13	-17.95	-99.3%
9EHXZF		26.79	9.02	50.7%	27.19	9.11	50.4%
9HVCBL	*	28.30	10.53	59.2%	28.05	9.97	55.2%
B9L7M3		26.65	8.88	49.9%	27.65	9.57	52.9%
C7UCJ8		24.61	6.84	38.5%	24.81	6.73	37.2%
CAPFFE		2.76	-15.01	-84.4%	2.76	-15.32	-84.7%
CGPK3A		27.55	9.78	55.0%	27.85	9.77	54.0%
DG9J2T		3.53	-14.25	-80.2%	3.51	-14.57	-80.6%
K737LQ		27.75	9.98	56.1%	28.05	9.97	55.2%
LR3MNZ		28.62	10.85	61.0%	29.46	11.38	63.0%
PMBRBH		29.28	11.51	64.7%	29.94	11.86	65.6%
QGF4TW		28.86	11.09	62.4%	29.29	11.21	62.0%
RU92WZ		3.51	-14.26	-80.3%	3.51	-14.57	-80.6%
XHFQQF		28.50	10.73	60.3%	29.05	10.97	60.7%
XVYYAU		4.22	-13.55	-76.2%	4.24	-13.84	-76.6%

ASEV-CTS Wine Industry Interlaboratory Testing Program

Research Property 951

Research Property: A280nm (1cm path)

Research Property Target Value

Target Value	**17.774**	Absorbance Units	**18.079**	Absorbance Units

For Test 951, CTS has chosen not to designate a target value for this property instead of using an average value. Due to differences in testing procedures, laboratories should use care when interpreting data for this test.

Wines tested: SA89: Rose; SA90: Rose

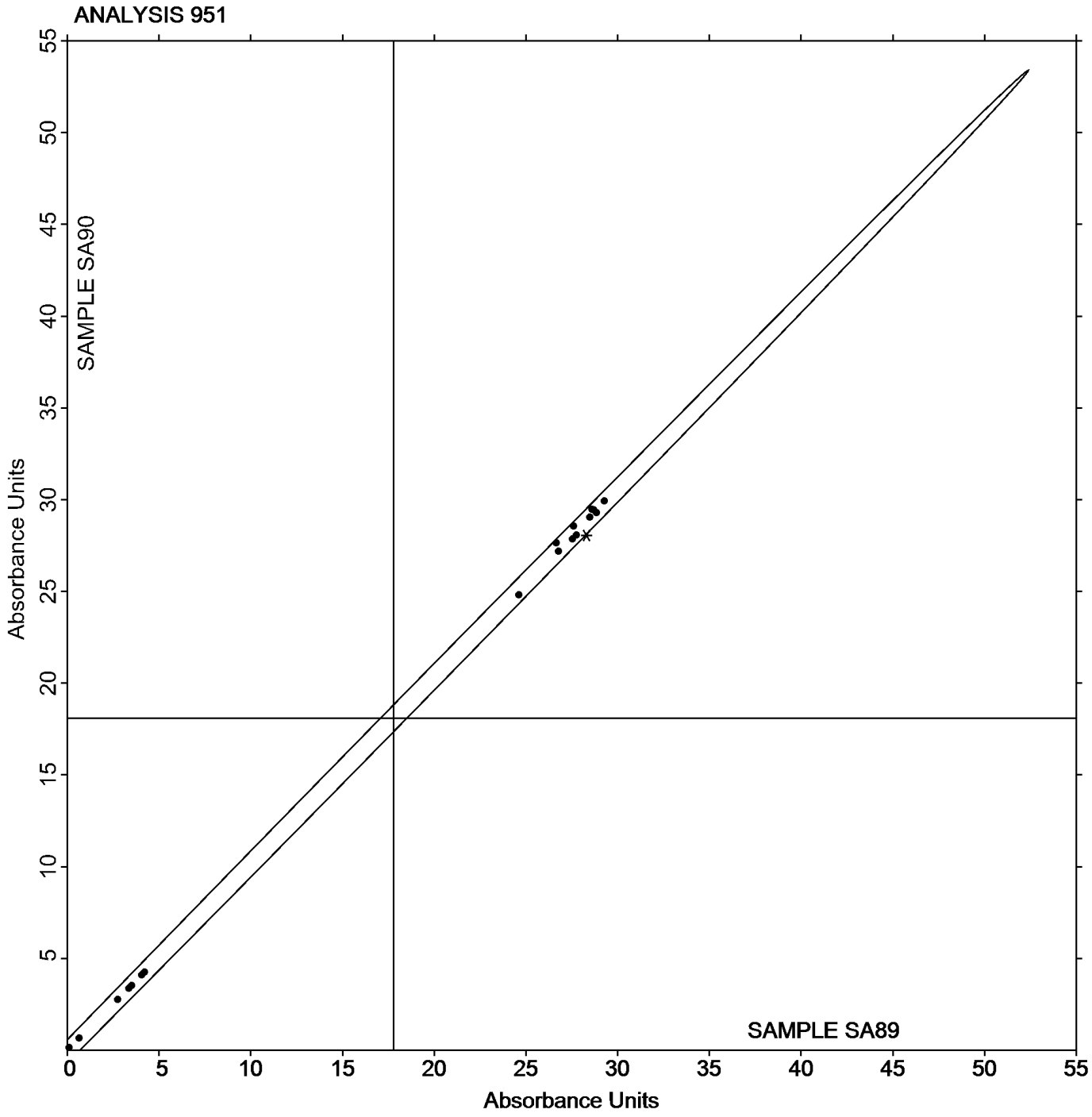
Consensus Average (may differ from target value)	17.774	Absorbance Units	18.079	Absorbance Units

This consensus average is based on 20 reporting participants.

ASEV-CTS Wine Industry Interlaboratory Testing Program

Research Property 951

Research Property: A280nm (1cm path)



ASEV-CTS Wine Industry Interlaboratory Testing Program

Analysis 952

Research Property: A620nm (1cm path)

WebCode	Data Flag	Sample SA89 Lab Mean	Sample SA89 Diff from Grand Mean	Sample SA89 CPV	Sample SA90 Lab Mean	Sample SA90 Diff from Grand Mean	Sample SA90 CPV
2BF48X		0.0200	0.0010	0.18	0.0200	0.0006	0.17
42L92J		0.0240	0.0050	0.93	0.0230	0.0036	0.99
497VVJ		0.0200	0.0010	0.18	0.0205	0.0011	0.31
4HXP9L	X	0.5570	0.5380	101.23	0.5520	0.5326	145.27
4RWMUZ		0.0205	0.0015	0.28	0.0190	-0.0004	-0.10
6ATWCQ		0.0164	-0.0027	-0.51	0.0175	-0.0019	-0.51
98WGDQ	*	0.0040	-0.0150	-2.83	0.0140	-0.0054	-1.47
9EHXZF		0.0260	0.0070	1.31	0.0220	0.0026	0.71
9HVCBL		0.0200	0.0010	0.18	0.0210	0.0016	0.44
B9L7M3		0.0215	0.0025	0.46	0.0230	0.0036	0.99
C7UCJ8		0.0220	0.0030	0.56	0.0230	0.0036	0.99
CAPFFE		0.0140	-0.0050	-0.95	0.0140	-0.0054	-1.47
CGPK3A		0.0200	0.0010	0.18	0.0200	0.0006	0.17
DG9J2T		0.0165	-0.0025	-0.48	0.0170	-0.0024	-0.65
HP4WP4		0.0150	-0.0040	-0.76	0.0200	0.0006	0.17
K737LQ		0.0225	0.0035	0.65	0.0215	0.0021	0.58
KZELJW	X	0.0370	0.0180	3.38	0.0380	0.0186	5.08
LR3MNZ		0.0215	0.0025	0.46	0.0190	-0.0004	-0.10
LX9FHV		0.0290	0.0100	1.88	0.0250	0.0056	1.53
PL27LB		0.0195	0.0005	0.09	0.0205	0.0011	0.31
PMBRBH		0.0220	0.0030	0.56	0.0250	0.0056	1.53
RPF2H6	X	0.0750	0.0560	10.53	0.0760	0.0566	15.44
RU92WZ	*	0.0110	-0.0080	-1.51	0.0100	-0.0094	-2.56
XAXEDF		0.0250	0.0060	1.12	0.0200	0.0006	0.17
XHFQQF		0.0200	0.0010	0.18	0.0200	0.0006	0.17
XVYYAU		0.0140	-0.0050	-0.95	0.0130	-0.0064	-1.74
YQNJJN		0.0120	-0.0070	-1.32	0.0170	-0.0024	-0.65

ASEV-CTS Wine Industry Interlaboratory Testing Program

Analysis 952

Research Property: A620nm (1cm path)

WebCode	Data Flag	Sample SA89 Lab Mean	Sample SA89 Diff from Grand Mean	Sample SA89 CPV	Sample SA90 Lab Mean	Sample SA90 Diff from Grand Mean	Sample SA90 CPV
ZXJ7L8		0.0195	0.0005	0.09	0.0195	0.0001	0.03

Research Property Target Value

	SA89		SA90	
Target Value	**0.01900**	Absorbance Units	**0.01940**	Absorbance Units

For Test 952, CTS has chosen not to designate a target value for this property instead of using an average value. The consensus average was used.

Wines tested: SA89: Rose; SA90: Rose

	SA89		SA90	
Consensus Average (may differ from target value)	0.01903	Absorbance Units	0.01938	Absorbance Units

This consensus average is based on 25 reporting participants.

Comments on assigned Data Flags

4HXP9L (X) - Extreme data.

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

RPF2H6 (X) - Data for both samples are high.

ASEV-CTS Wine Industry Interlaboratory Testing Program

Analysis 952

Research Property: A620nm (1cm path)