Collaborative Testing Services, Inc.

Plastics Interlaboratory Testing Program

Web Summary Report #137, 1st Qtr 2026

About CTS and the Plastics Interlaboratory Program

Key for Web Summary Report

Results Summary for this Report

Analysis	Analysis Name
704	Tensile Stress at Yield, Plastic Samples
705	Tensile Stress at Break, Plastic Samples
706	Percent Elongation at Yield, Plastic Samples
708	Modulus of Elasticity, Plastic Samples
710	Deflection Temp. Under Flexural Load (1.82 MPa)
711	Deflection Temp. Under Flexural Load (0.455 MPa)
712	Temp. of Deflection Under Flexural Load 1.80 MPa
715	Vicat Softening Temperature (Rate A)
716	Vicat Softening Temperature (Rate B)
718	Specific Gravity
720	Flexural Modulus
721	Flexural Stress at 5% Strain
722	Flexural Stress at Yield
730	Tensile Stress at Yield, ISO Plastic Samples
731	Tensile Stress at Break, ISO Plastic Samples
732	Percent Strain at Yield, ISO Plastic Samples
734	Modulus of Elasticity, ISO Plastic Samples
736	Flexural Modulus, ISO Plastic Samples
737	Flexural Stress at 3.5% Strain
738	Flexural Stress at Yield
750	Flow Rates of Thermoplastics (2.16 kg load)
755	Moisture Content of Plastics
757	Ash Content in Thermoplastics
758	Thermogravimetric Analysis
760	DSC Crystallization Temperature

Analysis	Analysis Name
761	DSC Melt Temperature
762	DSC Enthalpy of Crystallization
763	DSC Enthalpy of Fusion
764	DSC Glass Transition Temperature
765	DSC Crystallization Peak Temperature - Research
766	DSC Melting Peak Temperature - Research
767	DSC Heat of Crystallization - Research
768	DSC Heat of Fusion - Research
769	DSC Glass Transition Temperature - Research
770	Tensile Stress at Yield, Film Samples
771	Tensile Stress at Break, Film Samples
772	Percent Elongation at Yield, Film Samples
773	Percent Elongation at Break, Film Samples
774	Thickness of Film Tensile Samples
775	Secant Modulus at 1% Strain
776	Secant Modulus at 2% Strain
780	Coefficient of Friction: Static
781	Coefficient of Friction: Kinetic
782	Tear Resistance of Films
785	Optical Properties of Films - Percent Haze
786	Optical Properties of Films: % Transmittance
790	Notched Izod Impact
791	Notched Izod Impact (ISO)
792	Notched Charpy Impact, ISO Plastic Samples

About CTS and the Plastics Interlaboratory Program

Founded in 1971, Collaborative Testing Services, Inc. (CTS) is a privately-owned company that specializes in interlaboratory tests for a wide variety of industries including rubber, plastics, fasteners and metals, containerboard, paper, color, agriculture, and wine, as well as proficiency tests for forensic laboratories. All of the tests are designed to assist organizations in achieving and maintaining quality control objectives. Labs from the U.S., as well as more than 100 countries currently participate in CTS programs.

Collaborative Testing Services initiated the Collaborative Reference Program for PLASTICS in 1992 at the request of industry, ASTM committee D-20 members, and accrediting bodies. Additional test methods are always under review and are incorporated into the program when possible.

The program allows laboratories to compare periodically the level and uniformity of their testing with that of other participating laboratories. It also provides a realistic assessment of the state of plastics testing proficiency.

For each test there is a summary of the statistics for the analysis and a graphical representation of the data. Also shown are notes concerning specific laboratory results, as well as significant findings related to instrument types or other testing variations. Refer to the KEY FOR SUMMARY REPORT for an explanation of terms and guidelines for interpreting the results.

For further information contact:

COLLABORATIVE TESTING SERVICES, INC.
21331 Gentry Drive
Sterling, VA 20166
Phone: (571) 434-1925
FAX: (571) 434-1937
e-mail: plastics@cts-interlab.com

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

Key for Web Summary Report (Page 1 of 2)

WebCode — Assigned laboratory identification number (temporary) used to ensure lab confidentiality while permitting a lab to locate its data in the Plastics 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.

Inst Code — A code indicating the manufacturer of the instrument used to perform the test (see separate INSTRUMENT CODE LIST for each test section) if instruments are tracked.

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 at least 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.

Plastics Interlaboratory Testing Program

Results Summary for Report #137, 1st Qtr 2026

Analysis 704 - Tensile Stress at Yield				
Material: ABS/PC	Sample F15	7,189.34	psi	1.57% COV
	Sample F16	7,185.97	psi	1.56% COV
Analysis 705 - Tensile Stress at Break				
Material: ABS/PC	Sample F15	6,387.55	psi	2.77% COV
	Sample F16	6,415.12	psi	2.56% COV
Analysis 706 - Percent Elongation at Yield				
Material: ABS/PC	Sample F15	4.7258	Percent	2.35% COV
	Sample F16	4.7296	Percent	2.17% COV
Analysis 708 - Modulus of Elasticity				
Material: ABS/PC	Sample F15	317.39	ksi	4.26% COV
	Sample F16	315.46	ksi	4.50% COV
Analysis 710 - Deflection Temp. Under Flexural Load (1.82 MPa)				
Material: ABS/PC	Sample E15	104.23	Degrees C	1.58% COV
	Sample E16	104.61	Degrees C	1.58% COV
Analysis 711 - Deflection Temp. Under Flexural Load (0.455 MPa)				
Material: PP	Sample G15	94.726	Degrees C	2.83% COV
	Sample G16	94.308	Degrees C	2.80% COV
Analysis 712 - Temperature of Deflection (1.80 MPa)				
Material: HIPS	Sample N15	79.550	Degrees C	0.883% COV
	Sample N16	79.490	Degrees C	0.774% COV
Analysis 715 - Vicat Temperature (Rate A)				
Material: ABS/PC	Sample H15	138.92	Degrees C	0.413% COV
	Sample H16	139.03	Degrees C	0.420% COV
Analysis 716 - Vicat Temperature (Rate B)				
Material: ABS/PC	Sample R15	140.58	Degrees C	0.571% COV
	Sample R16	140.73	Degrees C	0.659% COV
Analysis 718 - Specific Gravity				
Material: HIPS	Sample T15	1.0357	sp gr 23/23 C	0.200% COV
	Sample T16	1.0356	sp gr 23/23 C	0.226% COV
Analysis 720 - Flexural Modulus				
Material: ABS/PC	Sample J15	333.82	ksi	6.05% COV
	Sample J16	333.40	ksi	5.97% COV
Analysis 721 - Flexural Stress at 5% Strain				
Material: ABS/PC	Sample J15	11,617.13	psi	5.09% COV
	Sample J16	11,614.68	psi	4.86% COV
Analysis 722 - Flexural Stress at Yield				
Material: ABS/PC	Sample J15	11,777.51	psi	6.64% COV
	Sample J16	11,782.01	psi	6.26% COV
Analysis 730 - Tensile Stress at Yield, ISO Method				
Material: ABS/PC	Sample C15	49.575	MPa	1.50% COV
	Sample C16	49.545	MPa	1.54% COV
Analysis 731 - Tensile Stress at Break, ISO Method				
Material: ABS/PC	Sample C15	45.287	MPa	4.16% COV
	Sample C16	45.316	MPa	4.17% COV

Plastics Interlaboratory Testing Program

Results Summary for Report #137, 1st Qtr 2026

Analysis 732 - Strain at Yield, ISO Method				
Material: ABS/PC	Sample C15	4.3671	Percent	4.60% COV
	Sample C16	4.3652	Percent	4.74% COV
Analysis 734 - Modulus of Elasticity, ISO Method				
Material: ABS/PC	Sample C15	2,278.38	MPa	4.10% COV
	Sample C16	2,273.35	MPa	3.62% COV
Analysis 736 - Flexural Modulus				
Material: ABS/PC	Sample K15	2,313.84	MPa	3.31% COV
	Sample K16	2,319.20	MPa	3.12% COV
Analysis 737 - Flexural Stress at 3.5% Strain				
Material: ABS/PC	Sample K15	71.002	MPa	4.28% COV
	Sample K16	71.058	MPa	4.13% COV
Analysis 738 - Flexural Stress at Yield				
Material: ABS/PC	Sample K15	79.618	MPa	4.34% COV
	Sample K16	79.609	MPa	4.43% COV
Analysis 750 - Flow Rate (190C or 230C/2.16 kg)				
Material: HDPE	Sample X15	6.6655	grams/10 mins	2.59% COV
	Sample X16	6.6834	grams/10 mins	2.56% COV
Analysis 755 - Moisture Content				
Material: HIPS	Sample Y15	0.01683	Percent	73.0% COV
	Sample Y16	0.01720	Percent	75.5% COV
Analysis 757 - Ash Content				
Material: PP	Sample L15	20.795	Percent	0.292% COV
	Sample L16	20.808	Percent	0.234% COV
Analysis 758 - TGA				
Material: PBT	Sample A15	69.202	Percent	2.79% COV
	Sample A16	69.101	Percent	2.97% COV
Analysis 760 - DSC Crystallization Temperature				
Material: PP	Sample W15	108.65	Degrees Celsius	4.04% COV
	Sample W16	108.79	Degrees Celsius	4.00% COV
Analysis 761 - DSC Melt Temperature				
Material: PP	Sample W15	165.29	Degrees Celsius	1.26% COV
	Sample W16	165.22	Degrees Celsius	1.31% COV
Analysis 762 - DSC Enthalpy of Crystallization				
Material: PP	Sample W15	96.232	Joules Per Gram	7.12% COV
	Sample W16	96.739	Joules Per Gram	6.45% COV
Analysis 763 - DSC Enthalpy of Fusion				
Material: PP	Sample W15	91.574	Joules Per Gram	12.8% COV
	Sample W16	92.775	Joules Per Gram	11.1% COV
Analysis 764 - DSC Glass Transition Temperature				
Material: ABS	Sample V15	107.51	Degrees Celsius	2.61% COV
	Sample V16	107.47	Degrees Celsius	2.42% COV
Analysis 765 - Research Crystallization Peak Temperature				
Material: PP	Sample W15	108.82	Degrees Celsius	3.18% COV
	Sample W16	109.23	Degrees Celsius	3.08% COV

Plastics Interlaboratory Testing Program

Results Summary for Report #137, 1st Qtr 2026

Analysis 766 - Research Melting Peak Temperature				
Material: PP	Sample W15	165.29	Degrees Celsius	1.15% COV
	Sample W16	165.33	Degrees Celsius	1.21% COV
Analysis 767 - Research Heat of Crystallization				
Material: PP	Sample W15	99.093	Joules Per Gram	5.66% COV
	Sample W16	100.13	Joules Per Gram	5.77% COV
Analysis 768 - Research Heat of Fusion				
Material: PP	Sample W15	95.176	Joules Per Gram	12.4% COV
	Sample W16	96.522	Joules Per Gram	11.0% COV
Analysis 769 - Research Glass Transition Temperature				
Material: ABS	Sample V15	106.99	Degrees Celsius	2.85% COV
	Sample V16	106.73	Degrees Celsius	2.44% COV
Analysis 770 - Tensile Stress at Yield, Films				
Material: LDPE	Sample B15	2,170.84	psi	4.32% COV
	Sample B16	2,100.02	psi	7.01% COV
Analysis 771 - Tensile Stress at Break, Films				
Material: LDPE	Sample B15	3,948.62	psi	13.2% COV
	Sample B16	4,331.30	psi	15.3% COV
Analysis 772 - Elongation at Yield, Films				
Material: LDPE	Sample B15	32.307	Percent	50.1% COV
	Sample B16	52.152	Percent	34.4% COV
Analysis 773 - Elongation at Break, Films				
Material: LDPE	Sample B15	883.79	Percent	25.8% COV
	Sample B16	956.43	Percent	26.2% COV
Analysis 774 - Thickness of Film Specimens				
Material: LDPE	Sample B15	3.8329	mils	3.24% COV
	Sample B16	3.8821	mils	3.49% COV
Analysis 775 - Secant Modulus at 1% Strain				
Material: LDPE	Sample B15	54,230.74	psi	16.4% COV
	Sample B16	47,935.73	psi	16.5% COV
Analysis 776 - Secant Modulus at 2% Strain				
Material: LDPE	Sample B15	43,830.96	psi	14.7% COV
	Sample B16	39,388.36	psi	15.6% COV
Analysis 780 - Static Friction				
Material: LDPE	Sample P15	0.30416	COF	18.9% COV
	Sample P16	0.32192	COF	24.7% COV
Analysis 781 - Kinetic Friction				
Material: LDPE	Sample P15	0.26494	COF	14.0% COV
	Sample P16	0.29134	COF	24.5% COV
Analysis 782 - Tear Resistance of Film				
Material: LDPE	Sample Q15	414.71	grams-force	8.89% COV
	Sample Q16	284.90	grams-force	16.2% COV
Analysis 785 - Percent Haze				
Material: LDPE	Sample D15	16.936	Percent	5.79% COV
	Sample D16	18.363	Percent	6.01% COV

Plastics Interlaboratory Testing Program

Results Summary for Report #137, 1st Qtr 2026

Analysis 786 - Total Transmittance				
Material: LDPE	Sample D15	92.953	Percent	1.02% COV
	Sample D16	92.806	Percent	1.07% COV
Analysis 790 - Notched Izod Impact				
Material: ABS/PC	Sample S15	10.109	ft.lbf/in	4.36% COV
	Sample S16	10.050	ft.lbf/in	3.80% COV
Analysis 791 - Notched Izod Impact				
Material: HIPS	Sample Z15	8.5079	kJ/m^2	3.95% COV
	Sample Z16	8.5213	kJ/m^2	4.32% COV
Analysis 792 - Notched Charpy Impact				
Material: ABS/PC	Sample M15	46.384	kJ/m^2	11.1% COV
	Sample M16	46.421	kJ/m^2	10.6% COV

WebCode	Data Flag	Sample F15 Lab Mean	Sample F15 Diff from Grand Mean	Sample F15 CPV	Sample F16 Lab Mean	Sample F16 Diff from Grand Mean	Sample F16 CPV
3HZHTC	X	7,658.6	469.3	4.16	7,649.2	463.2	4.12
3JFN7G		7,198.0	8.7	0.08	7,200.0	14.0	0.12
4A43GD		7,136.6	-52.7	-0.47	7,138.9	-47.1	-0.42
4Y3EPG		7,077.0	-112.3	-1.00	7,068.0	-117.9	-1.05
4YMHXG		7,231.0	41.7	0.37	7,258.4	72.4	0.64
6BUMMA		7,181.2	-8.1	-0.07	7,163.8	-22.2	-0.20
6TRXKK		7,080.8	-108.5	-0.96	7,077.0	-109.0	-0.97
7H9TWL		7,260.4	71.1	0.63	7,280.6	94.6	0.84
8UCLVB		7,408.8	219.4	1.95	7,373.3	187.3	1.67
94GTBB	X	7,823.4	634.1	5.62	7,872.4	686.4	6.11
97NBA8	*	7,487.2	297.9	2.64	7,497.6	311.7	2.77
9DMNDG		7,188.4	-0.9	-0.01	7,197.2	11.2	0.10
9YLYDA	X	7,086.0	-103.3	-0.92	7,237.5	51.5	0.46
A286BC		7,111.8	-77.6	-0.69	7,108.4	-77.6	-0.69
AG68XB	X	7,506.0	316.7	2.81	7,444.0	258.0	2.30
ARLYD9		7,230.6	41.3	0.37	7,229.2	43.2	0.38
B29DZB	X	6,793.6	-395.7	-3.51	6,851.6	-334.3	-2.97
C8P6PF	X	7,095.0	-94.3	-0.84	7,192.2	6.2	0.06
C9LL2C		7,033.9	-155.5	-1.38	7,035.0	-151.0	-1.34
CLNAU7		7,191.0	1.7	0.02	7,179.4	-6.5	-0.06
CYZKJG	X	7,252.0	62.6	0.56	6,822.3	-363.6	-3.24
DGTPGA		7,285.4	96.1	0.85	7,287.6	101.6	0.90
DYUPDG	X	7,176.6	-12.7	-0.11	7,086.8	-99.2	-0.88
EFZ9TJ		7,082.0	-107.3	-0.95	7,082.0	-104.0	-0.93
FLUXK8		7,102.0	-87.3	-0.77	7,108.0	-78.0	-0.69
FN6M3Y		7,218.0	28.7	0.25	7,228.7	42.8	0.38
FPT9G8		7,146.3	-43.0	-0.38	7,148.9	-37.1	-0.33
FQTC7C		7,197.0	7.7	0.07	7,198.0	12.0	0.11
FYMCPB		7,203.2	13.9	0.12	7,228.2	42.2	0.38
GL8V84		7,113.8	-75.5	-0.67	7,117.6	-68.4	-0.61
GPXT4B		7,041.4	-147.9	-1.31	7,021.4	-164.6	-1.46
JUFXRV		7,148.1	-41.2	-0.37	7,105.8	-80.2	-0.71
JW6GM2		6,986.4	-202.9	-1.80	7,008.0	-178.0	-1.58
LHCLAY		7,262.4	73.1	0.65	7,254.5	68.5	0.61
LQUVXV		7,332.0	142.7	1.27	7,334.0	148.0	1.32

WebCode	Data Flag	Sample F15 Lab Mean	Sample F15 Diff from Grand Mean	Sample F15 CPV	Sample F16 Lab Mean	Sample F16 Diff from Grand Mean	Sample F16 CPV
LRNL4A		7,202.2	12.9	0.11	7,179.4	-6.6	-0.06
MKHDTY	*	6,882.0	-307.3	-2.73	6,868.0	-318.0	-2.83
MTNK9Y		7,200.5	11.2	0.10	7,200.1	14.2	0.13
N4QVM2		7,352.4	163.1	1.45	7,323.8	137.8	1.23
N7VQXR	X	6,973.5	-215.9	-1.91	6,895.4	-290.5	-2.59
N9Z96Z		7,232.4	43.1	0.38	7,194.2	8.2	0.07
NQEUHV		7,397.0	207.7	1.84	7,387.1	201.2	1.79
PR6DYM		7,185.6	-3.7	-0.03	7,197.4	11.4	0.10
TEVR9T		7,174.8	-14.5	-0.13	7,184.8	-1.2	-0.01
UJFA2V	X	7,393.4	204.1	1.81	7,575.6	389.6	3.47
UWTAXN		7,086.2	-103.1	-0.91	7,106.4	-79.6	-0.71
VWMERN		7,251.4	62.1	0.55	7,275.8	89.8	0.80
VYVGUL		7,159.9	-29.4	-0.26	7,147.5	-38.4	-0.34
WBEJPJ		7,129.6	-59.7	-0.53	7,109.4	-76.6	-0.68
XQ7TWL		7,163.5	-25.9	-0.23	7,155.6	-30.3	-0.27
YMQHJH		7,276.4	87.0	0.77	7,274.5	88.5	0.79
ZLD98W		7,235.6	46.3	0.41	7,230.4	44.4	0.40
ZQLWGR		7,277.2	87.9	0.78	7,232.5	46.5	0.41

Summary Statistics

	Sample F15	Sample F16
Grand Means	7,189.34 psi	7,185.97 psi
Stnd Dev Btwn Labs	112.75 psi	112.38 psi

Statistics based on 43 of 53 reporting participants

Sample F15: ABS/PC & Sample F16: ABS/PC

Comments on Assigned Data Flags for Test #704

DYUPDG (X) - Inconsistent in testing between samples.

C8P6PF (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample F15.

CYZKJG (X) - Data for sample F16 are low. Inconsistent within the determinations of sample F15.

UJFA2V (X) - Data for sample F16 are high. Inconsistent within the determinations of sample F15.

B29DZB (X) - Data for both samples are low. Possible Systematic Error. Inconsistent within the determinations of sample F15.

AG68XB (X) - Data for sample F15 are high.

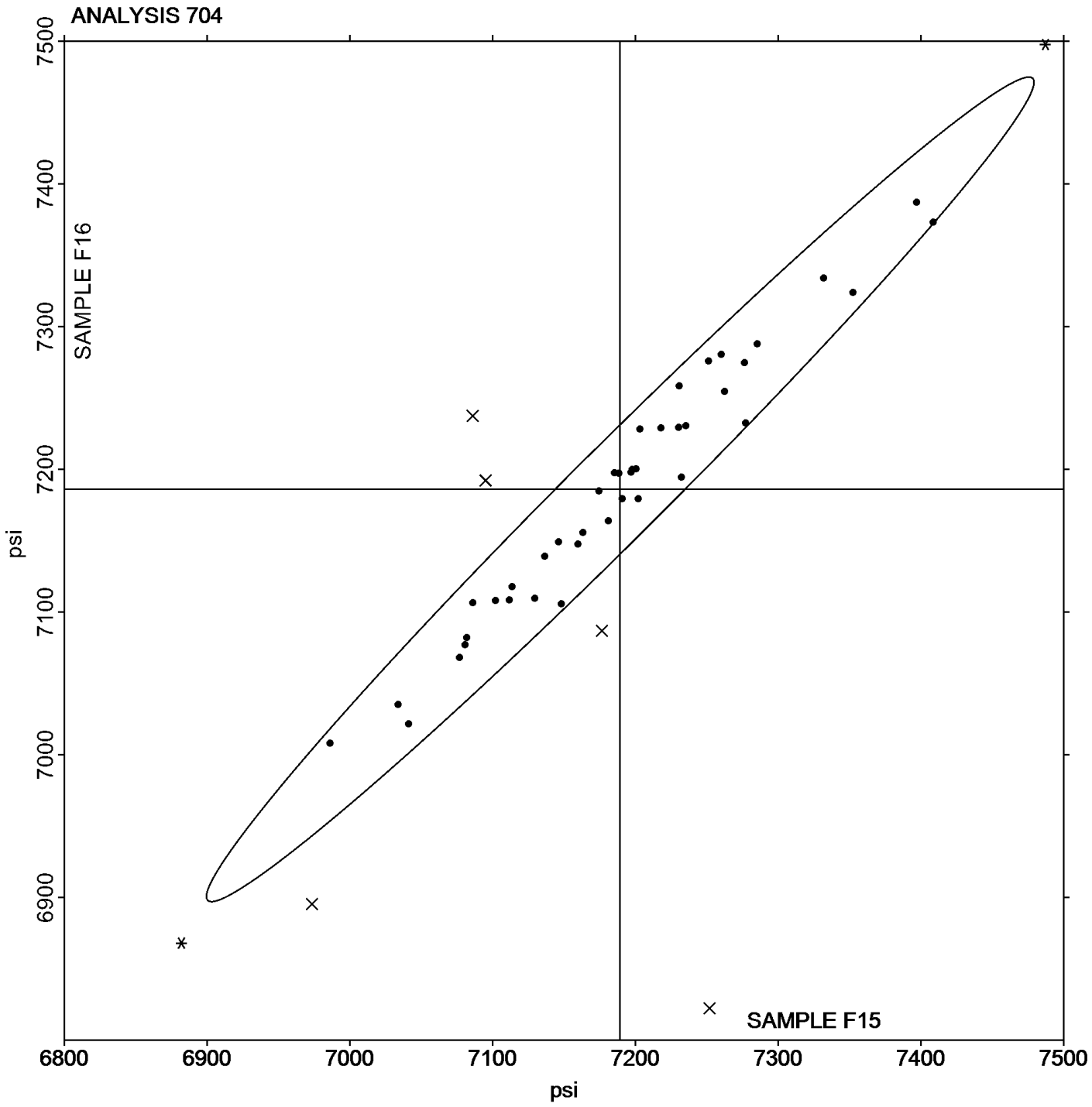
3HZHTC (X) - Data for both samples are high. Possible Systematic Error.

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

94GTBB (X) - Data for both samples are high. Possible Systematic Error. Inconsistent within the determinations of sample F15.

N7VQXR (X) - Inconsistent in testing between samples.

Grand Mean Sample F15: 7,189.34 psi Grand Mean Sample F16: 7,185.97 psi



WebCode	Data Flag	Sample F15 Lab Mean	Sample F15 Diff from Grand Mean	Sample F15 CPV	Sample F16 Lab Mean	Sample F16 Diff from Grand Mean	Sample F16 CPV
3HZHTC		6,693.8	306.2	1.73	6,809.0	393.9	2.40
3JFN7G		6,267.6	-119.9	-0.68	6,239.1	-176.0	-1.07
4A43GD		6,408.9	21.3	0.12	6,642.8	227.7	1.39
4Y3EPG		6,435.7	48.1	0.27	6,286.6	-128.5	-0.78
4YMHXG		6,427.2	39.6	0.22	6,484.2	69.1	0.42
6BUMMA		6,306.6	-81.0	-0.46	6,344.4	-70.7	-0.43
6TRXKK		6,077.8	-309.8	-1.75	6,206.4	-208.7	-1.27
7H9TWL		6,393.4	5.8	0.03	6,484.2	69.1	0.42
8UCLVB		6,556.0	168.4	0.95	6,554.0	138.9	0.85
94GTBB	X	7,053.6	666.0	3.76	7,092.8	677.7	4.13
97NBA8		6,642.8	255.2	1.44	6,732.7	317.6	1.94
9DMNDG		6,097.8	-289.8	-1.64	6,239.2	-175.9	-1.07
9YLYDA		6,030.0	-357.6	-2.02	6,216.0	-199.1	-1.21
A286BC		6,248.4	-139.1	-0.79	6,260.8	-154.3	-0.94
AG68XB		6,600.0	212.4	1.20	6,596.0	180.9	1.10
ARLYD9		6,423.6	36.0	0.20	6,430.8	15.7	0.10
B29DZB	X	5,592.7	-794.8	-4.49	5,760.9	-654.2	-3.99
C8P6PF		6,310.6	-76.9	-0.43	6,498.2	83.1	0.51
C9LL2C		6,263.1	-124.5	-0.70	6,261.4	-153.7	-0.94
CLNAU7		6,268.6	-119.0	-0.67	6,294.7	-120.4	-0.73
CYZKJG	X	6,436.8	49.3	0.28	7,128.4	713.3	4.35
DGTPGA		6,209.3	-178.3	-1.01	6,131.0	-284.1	-1.73
DYUPDG		6,524.0	136.4	0.77	6,521.0	105.9	0.65
FN6M3Y		6,337.0	-50.5	-0.29	6,343.7	-71.4	-0.44
FPT9G8		6,536.4	148.8	0.84	6,663.3	248.2	1.51
FYMCPB		6,400.6	13.0	0.07	6,370.8	-44.3	-0.27
GL8V84		6,552.4	164.8	0.93	6,497.0	81.9	0.50
JUFXRV		6,492.8	105.3	0.60	6,462.6	47.5	0.29
JW6GM2		5,972.2	-415.4	-2.35	6,198.6	-216.5	-1.32
LHCLAY		6,452.6	65.1	0.37	6,496.0	80.9	0.49
LQUVXV		6,582.0	194.4	1.10	6,622.0	206.9	1.26
LRNL4A		6,528.2	140.6	0.80	6,512.0	96.9	0.59
MKHDTY		6,114.0	-273.6	-1.55	6,252.0	-163.1	-1.00
MTNK9Y		6,342.9	-44.7	-0.25	6,440.9	25.8	0.16
N4QVM2		6,521.8	134.2	0.76	6,522.2	107.1	0.65

WebCode	Data Flag	Sample F15 Lab Mean	Sample F15 Diff from Grand Mean	Sample F15 CPV	Sample F16 Lab Mean	Sample F16 Diff from Grand Mean	Sample F16 CPV
N7VQXR		6,334.4	-53.1	-0.30	6,255.5	-159.6	-0.97
N9Z96Z		6,414.4	26.8	0.15	6,406.2	-8.9	-0.05
NQEUHV		6,561.6	174.0	0.98	6,390.4	-24.7	-0.15
PR6DYM		6,333.0	-54.6	-0.31	6,185.0	-230.1	-1.40
TEVR9T		6,344.4	-43.2	-0.24	6,299.0	-116.1	-0.71
UJFA2V		6,493.4	105.8	0.60	6,726.6	311.5	1.90
UWTAXN		6,642.6	255.0	1.44	6,405.0	-10.1	-0.06
VWMERN		6,573.2	185.6	1.05	6,547.8	132.7	0.81
VYVGUL		6,604.8	217.2	1.23	6,510.9	95.7	0.58
WBEJPJ		6,358.8	-28.8	-0.16	6,392.4	-22.7	-0.14
XQ7TWL		6,088.7	-298.8	-1.69	6,256.4	-158.7	-0.97
ZLD98W		6,234.3	-153.2	-0.87	6,269.7	-145.4	-0.89
ZQLWGR		6,438.0	50.4	0.29	6,421.7	6.6	0.04

Summary Statistics

	Sample F15	Sample F16
Grand Means	6,387.55 psi	6,415.12 psi
Stnd Dev Btwn Labs	176.92 psi	163.93 psi

Statistics based on 45 of 48 reporting participants

Sample F15: ABS/PC & Sample F16: ABS/PC

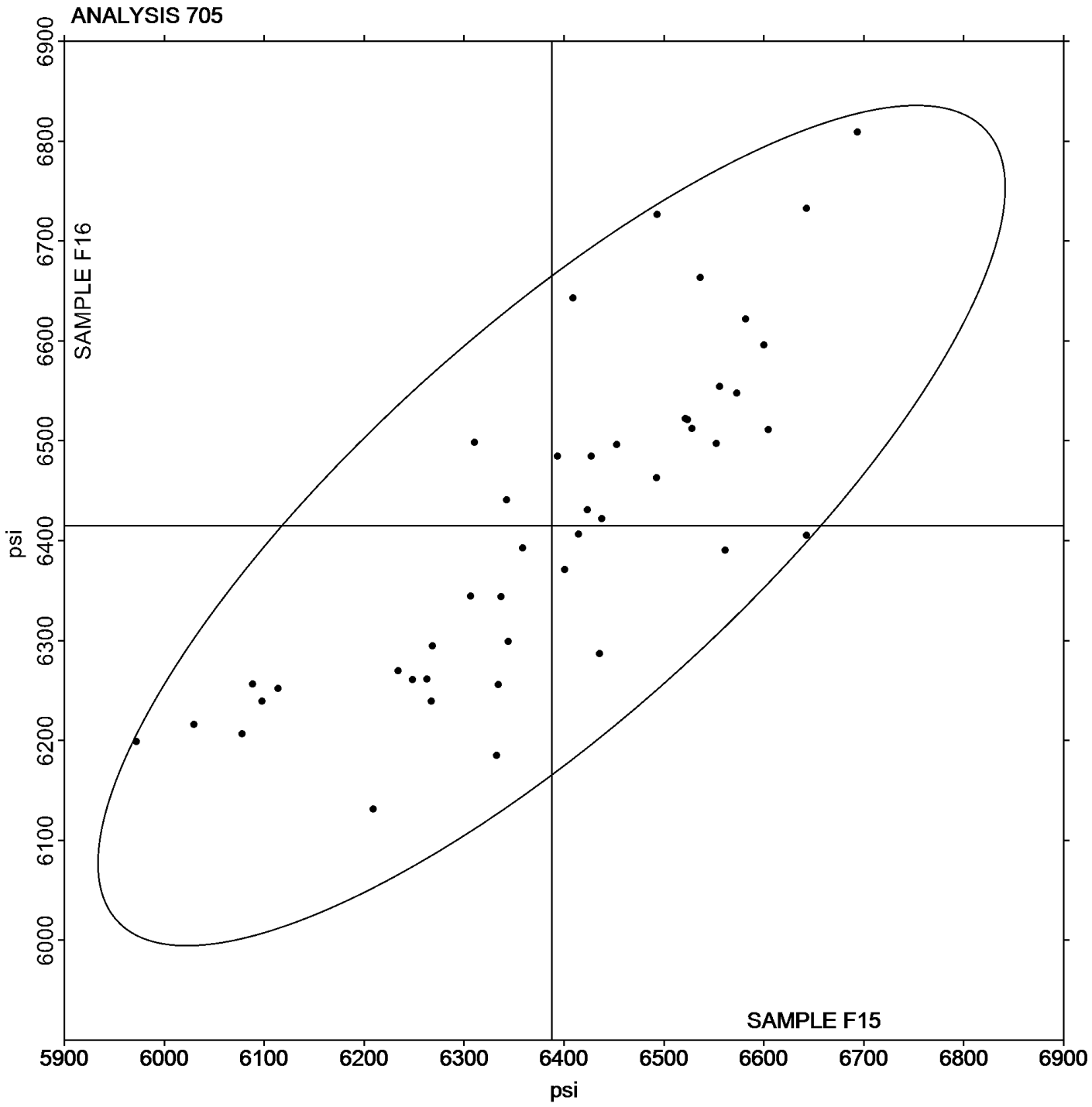
Comments on Assigned Data Flags for Test #705

CYZKJG (X) - Data for sample F16 are high.

B29DZB (X) - Data for both samples are low. Possible Systematic Error.

94GTBB (X) - Data for both samples are high. Possible Systematic Error.

Grand Mean Sample F15: 6,387.55 psi Grand Mean Sample F16: 6,415.12 psi



WebCode	Data Flag	Sample F15 Lab Mean	Sample F15 Diff from Grand Mean	Sample F15 CPV	Sample F16 Lab Mean	Sample F16 Diff from Grand Mean	Sample F16 CPV
3HZHTC		4.762	0.036	0.33	4.768	0.038	0.37
3JFN7G		4.730	0.004	0.04	4.774	0.044	0.43
4A43GD		4.810	0.084	0.76	4.790	0.060	0.59
4Y3EPG		4.636	-0.090	-0.81	4.650	-0.080	-0.77
4YMHXG		4.728	0.002	0.02	4.740	0.010	0.10
6BUMMA		4.584	-0.142	-1.28	4.672	-0.058	-0.56
6TRXKK		4.790	0.064	0.58	4.806	0.076	0.74
7H9TWL		4.720	-0.006	-0.05	4.740	0.010	0.10
94GTBB	X	3.714	-1.012	-9.13	3.540	-1.190	-11.57
97NBA8		4.839	0.114	1.02	4.804	0.074	0.72
9DMNDG		4.544	-0.182	-1.64	4.636	-0.094	-0.91
9YLYDA	*	4.578	-0.148	-1.33	4.756	0.026	0.26
A286BC		4.724	-0.002	-0.02	4.728	-0.002	-0.02
AG68XB		4.650	-0.076	-0.68	4.562	-0.168	-1.63
ARLYD9		4.744	0.018	0.16	4.792	0.062	0.61
B29DZB	*	4.400	-0.326	-2.94	4.480	-0.250	-2.43
C8P6PF	X	3.952	-0.773	-6.98	3.841	-0.889	-8.65
C9LL2C		4.720	-0.006	-0.05	4.674	-0.056	-0.54
CLNAU7		4.784	0.058	0.52	4.752	0.022	0.22
CYZKJG		4.620	-0.106	-0.95	4.542	-0.188	-1.82
DGTPGA		4.894	0.168	1.52	4.862	0.132	1.29
DYUPDG		4.684	-0.042	-0.38	4.730	0.000	0.00
FN6M3Y	X	5.146	0.420	3.79	5.202	0.472	4.59
FQTC7C		4.740	0.014	0.13	4.728	-0.002	-0.02
FYMCPB	X	4.068	-0.658	-5.94	4.092	-0.638	-6.20
GL8V84		4.638	-0.088	-0.79	4.716	-0.014	-0.13
GPXT4B		4.714	-0.012	-0.11	4.686	-0.044	-0.42
JUFXRV		4.914	0.188	1.70	4.912	0.182	1.77
JW6GM2	X	4.564	-0.162	-1.46	5.380	0.650	6.32
LHCLAY		4.750	0.024	0.22	4.770	0.040	0.39
LQUVXV		4.880	0.154	1.39	4.940	0.210	2.05
LRNL4A		4.750	0.024	0.22	4.782	0.052	0.51
MKHDTY		4.612	-0.114	-1.03	4.646	-0.084	-0.81
MTNK9Y	*	4.964	0.238	2.15	4.818	0.089	0.86
N7VQXR		4.754	0.028	0.25	4.714	-0.016	-0.15

WebCode	Data Flag	Sample F15 Lab Mean	Sample F15 Diff from Grand Mean	Sample F15 CPV	Sample F16 Lab Mean	Sample F16 Diff from Grand Mean	Sample F16 CPV
NQEUHV	X	3.681	-1.045	-9.43	3.658	-1.071	-10.42
PR6DYM		4.704	-0.022	-0.20	4.778	0.048	0.47
TEVR9T		4.658	-0.068	-0.61	4.646	-0.084	-0.81
UJFA2V	*	4.844	0.118	1.07	4.984	0.254	2.47
UWTAXN		4.700	-0.026	-0.23	4.628	-0.102	-0.99
VWMERN		4.562	-0.164	-1.48	4.566	-0.164	-1.59
VYVGUL		4.797	0.072	0.65	4.750	0.021	0.20
WBEJPJ		4.710	-0.016	-0.14	4.644	-0.086	-0.83
XQ7TWL		4.836	0.110	0.99	4.808	0.078	0.76
YMQHJH		4.731	0.005	0.05	4.711	-0.018	-0.18
ZLD98W		4.687	-0.039	-0.35	4.645	-0.084	-0.82
ZQLWGR		4.872	0.146	1.32	4.784	0.054	0.53

Summary Statistics

	Sample F15	Sample F16
Grand Means	4.7258 Percent	4.7296 Percent
Stnd Dev Btwn Labs	0.1108 Percent	0.1028 Percent

Statistics based on 41 of 47 reporting participants

Sample F15: ABS/PC & Sample F16: ABS/PC

Comments on Assigned Data Flags for Test #706

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

C8P6PF (X) - Data for both samples are low. Possible Systematic Error. Inconsistent within the determinations of sample F16.

JW6GM2 (X) - Data for sample F16 are high. Inconsistent within the determinations of both samples.

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

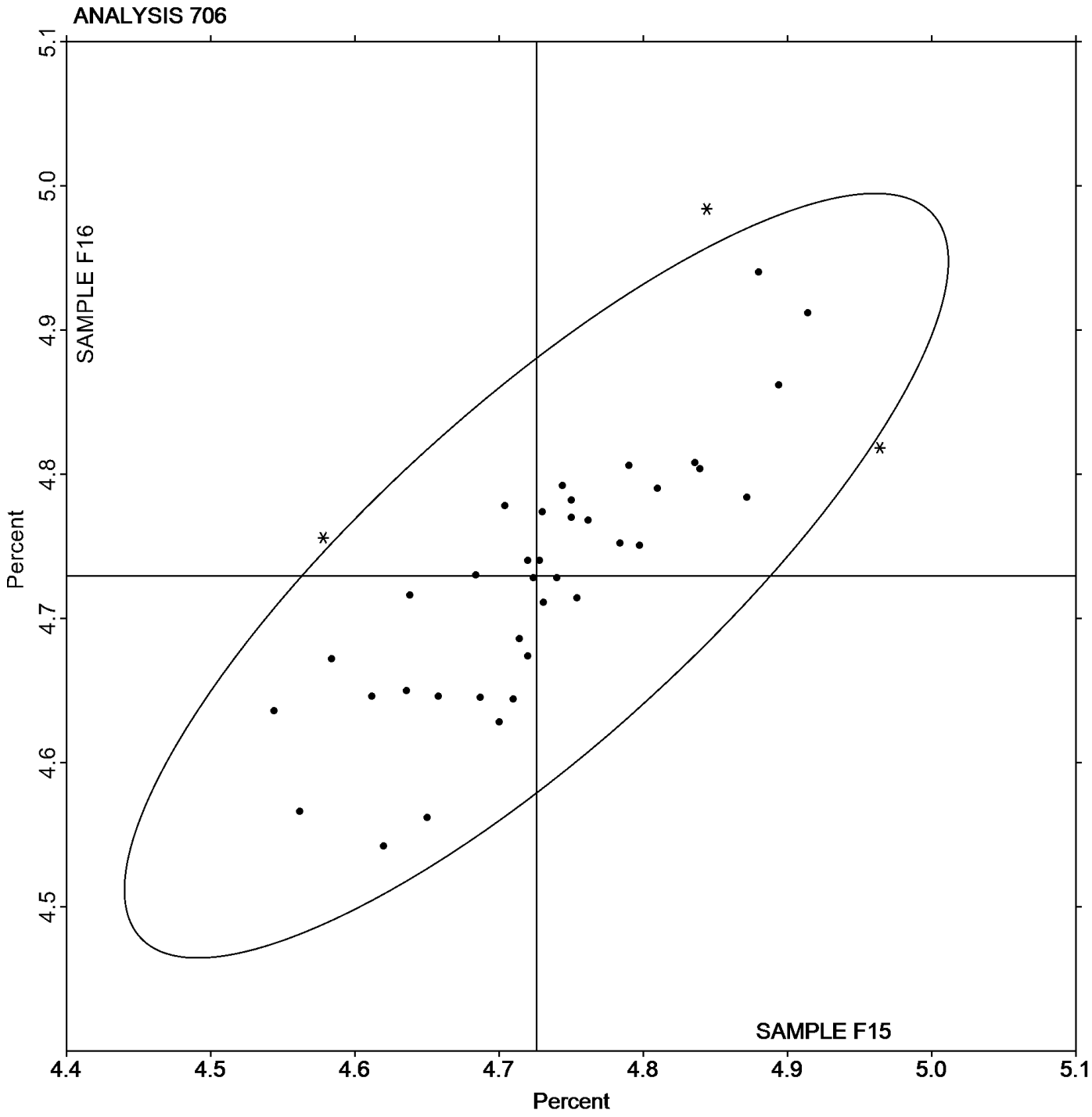
94GTBB (X) - Data for both samples are low.

FN6M3Y (X) - Data for both samples are high. Possible Systematic Error. Inconsistent within the determinations of sample F15.

Results by Methodology (as reported by laboratory)

Test Methodology	Sample F15 ABS/PC Group Mean	Sample F15 ABS/PC Btwn Lab STD	Sample F15 ABS/PC Diff from GM	Sample F16 ABS/PC Group Mean	Sample F16 ABS/PC Btwn Lab STD	Sample F16 ABS/PC Diff from GM	Labs Incl / Rpt
contact extensometer to measure elongation	4.7365	0.1052	0.011	4.7389	0.1018	0.009	30/35
crosshead deflection/movement	4.7853	0.0240	0.060	4.7700	0.0191	0.040	3/3
video extensometer	4.6634	0.1331	-0.062	4.6797	0.1162	-0.050	8/9

Grand Mean Sample F15: 4.7258 Percent Grand Mean Sample F16: 4.7296 Percent



WebCode	Data Flag	Sample F15 Lab Mean	Sample F15 Diff from Grand Mean	Sample F15 CPV	Sample F16 Lab Mean	Sample F16 Diff from Grand Mean	Sample F16 CPV
3HZHTC	*	281.00	-36.39	-2.69	281.00	-34.46	-2.43
3JFN7G		290.20	-27.19	-2.01	287.80	-27.66	-1.95
4A43GD		312.21	-5.18	-0.38	313.85	-1.61	-0.11
4Y3EPG		312.71	-4.68	-0.35	310.63	-4.83	-0.34
4YMHXG		318.12	0.73	0.05	312.98	-2.48	-0.17
6BUMMA		318.16	0.77	0.06	317.78	2.32	0.16
6TRXKK		315.20	-2.19	-0.16	311.80	-3.66	-0.26
94GTBB	X	384.47	67.07	4.96	396.36	80.90	5.69
97NBA8		317.52	0.13	0.01	314.73	-0.72	-0.05
9DMNDG		294.74	-22.65	-1.67	296.00	-19.46	-1.37
9YLYDA	X	3.26	-314.13	-23.22	3.27	-312.18	-21.97
A286BC		317.02	-0.37	-0.03	318.30	2.84	0.20
AG68XB		336.20	18.81	1.39	337.40	21.94	1.54
ARLYD9		324.64	7.25	0.54	323.62	8.16	0.57
B29DZB	*	342.73	25.34	1.87	351.11	35.65	2.51
C8P6PF		327.81	10.41	0.77	335.77	20.32	1.43
C9LL2C		303.67	-13.72	-1.01	304.76	-10.70	-0.75
CLNAU7		306.90	-10.49	-0.78	306.61	-8.85	-0.62
CYZKJG		319.96	2.56	0.19	321.41	5.95	0.42
DGTPGA		320.57	3.18	0.24	313.57	-1.89	-0.13
DYUPDG		330.02	12.63	0.93	331.83	16.37	1.15
FN6M3Y	*	305.37	-12.02	-0.89	291.57	-23.89	-1.68
FPT9G8		317.14	-0.25	-0.02	316.98	1.52	0.11
FQTC7C		316.40	-0.99	-0.07	317.20	1.74	0.12
FYMCPB		324.37	6.98	0.52	316.67	1.21	0.09
GL8V84	X	342.02	24.63	1.82	300.44	-15.02	-1.06
GPXT4B		329.40	12.01	0.89	328.60	13.14	0.92
JUFXRV		295.56	-21.83	-1.61	297.45	-18.01	-1.27
JW6GM2	X	291.14	-26.25	-1.94	221.66	-93.80	-6.60
LHCLAY		338.36	20.97	1.55	329.77	14.31	1.01
LQUVXV		325.20	7.81	0.58	321.40	5.94	0.42
LRNL4A		321.18	3.79	0.28	316.78	1.32	0.09
MKHDTY		327.40	10.01	0.74	331.40	15.94	1.12
MTNK9Y		324.05	6.66	0.49	319.75	4.30	0.30
N7VQXR		298.91	-18.48	-1.37	297.33	-18.13	-1.28

WebCode	Data Flag	Sample F15 Lab Mean	Sample F15 Diff from Grand Mean	Sample F15 CPV	Sample F16 Lab Mean	Sample F16 Diff from Grand Mean	Sample F16 CPV
N9Z96Z		322.50	5.11	0.38	315.92	0.46	0.03
NQEUHV	X	367.53	50.14	3.71	385.51	70.05	4.93
PR6DYM		312.30	-5.09	-0.38	307.68	-7.78	-0.55
TEVR9T		326.38	8.99	0.66	326.52	11.06	0.78
UJFA2V		318.86	1.47	0.11	308.64	-6.82	-0.48
UWTAXN		321.30	3.91	0.29	323.68	8.22	0.58
VWMERN	*	346.94	29.55	2.18	337.20	21.74	1.53
VYVGUL		304.28	-13.11	-0.97	298.04	-17.42	-1.23
WBEJPJ		325.06	7.67	0.57	320.26	4.80	0.34
XQ7TWL		314.62	-2.77	-0.20	310.84	-4.62	-0.32
YMQHJH		320.45	3.05	0.23	319.43	3.97	0.28
ZLD98W		305.02	-12.38	-0.91	305.21	-10.25	-0.72

Summary Statistics

	Sample F15	Sample F16
Grand Means	317.391 ksi	315.459 ksi
Stnd Dev Btwn Labs	13.528 ksi	14.209 ksi

Statistics based on 42 of 47 reporting participants

Sample F15: ABS/PC & Sample F16: ABS/PC

Comments on Assigned Data Flags for Test #708

GL8V84 (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample F15.

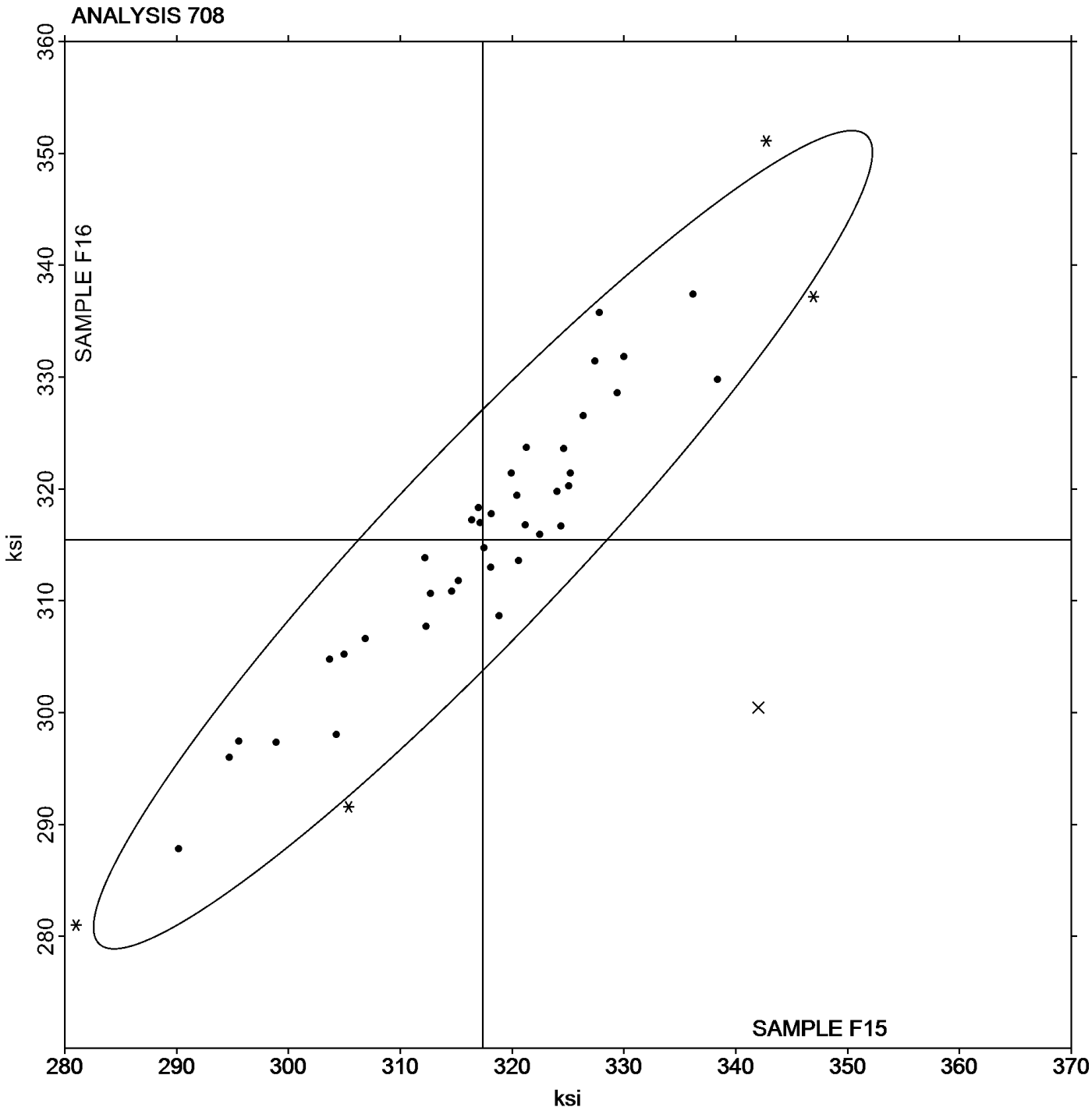
JW6GM2 (X) - Data for sample F16 are low. Inconsistent within the determinations of both samples.

9YLYDA (X) - Extreme data.

NQEUHV (X) - Data for both samples are high. Possible Systematic Error. Inconsistent within the determinations of both samples.

94GTBB (X) - Data for both samples are high. Inconsistent within the determinations of both samples.

Grand Mean Sample F15: 317.39 ksi Grand Mean Sample F16: 315.46 ksi



WebCode	Data Flag	Sample E15 Lab Mean	Sample E15 Diff from Grand Mean	Sample E15 CPV	Sample E16 Lab Mean	Sample E16 Diff from Grand Mean	Sample E16 CPV	Instr Code
3HZHTC		103.78	-0.46	-0.28	102.53	-2.09	-1.26	AT
4A43GD		106.18	1.94	1.17	105.98	1.36	0.82	IN
4Y3EPG		102.80	-1.43	-0.87	102.75	-1.86	-1.12	TY
6GXGVJ		101.05	-3.18	-1.93	101.35	-3.26	-1.97	CS
9YLYDA		103.80	-0.43	-0.26	104.20	-0.41	-0.25	TO
C8P6PF		104.70	0.47	0.28	105.94	1.33	0.80	IN
CYZKJG		104.80	0.57	0.34	105.58	0.96	0.58	IN
DYUPDG		105.43	1.19	0.72	105.55	0.94	0.57	CE
GPXT4B		101.48	-2.76	-1.67	101.90	-2.71	-1.64	TO
KAP9U9		104.25	0.02	0.01	104.50	-0.11	-0.07	TO
LHCLAY		102.88	-1.36	-0.82	103.20	-1.41	-0.85	IN
LQUVXV		105.13	0.89	0.54	105.00	0.39	0.24	TO
LXPXY8		103.90	-0.33	-0.20	104.83	0.22	0.13	CE
N4QVM2		107.95	3.72	2.25	107.55	2.94	1.78	TO
TBTVM6		103.60	-0.63	-0.38	104.15	-0.46	-0.28	TO
TEVR9T		106.33	2.09	1.27	105.73	1.11	0.67	DN
UWTAXN		104.58	0.34	0.21	105.23	0.61	0.37	IN
WMCC7M		104.85	0.62	0.37	107.20	2.59	1.56	CF
XQ7TWL		102.85	-1.38	-0.84	103.10	-1.51	-0.91	TY
YL9PKT		102.75	-1.48	-0.90	104.63	0.01	0.01	IN
ZQLWGR		105.88	1.64	0.99	105.95	1.34	0.81	TO

Summary Statistics

	Sample E15	Sample E16
Grand Means	104.235 Degrees C	104.610 Degrees C
Stnd Dev Btwn Labs	1.652 Degrees C	1.656 Degrees C

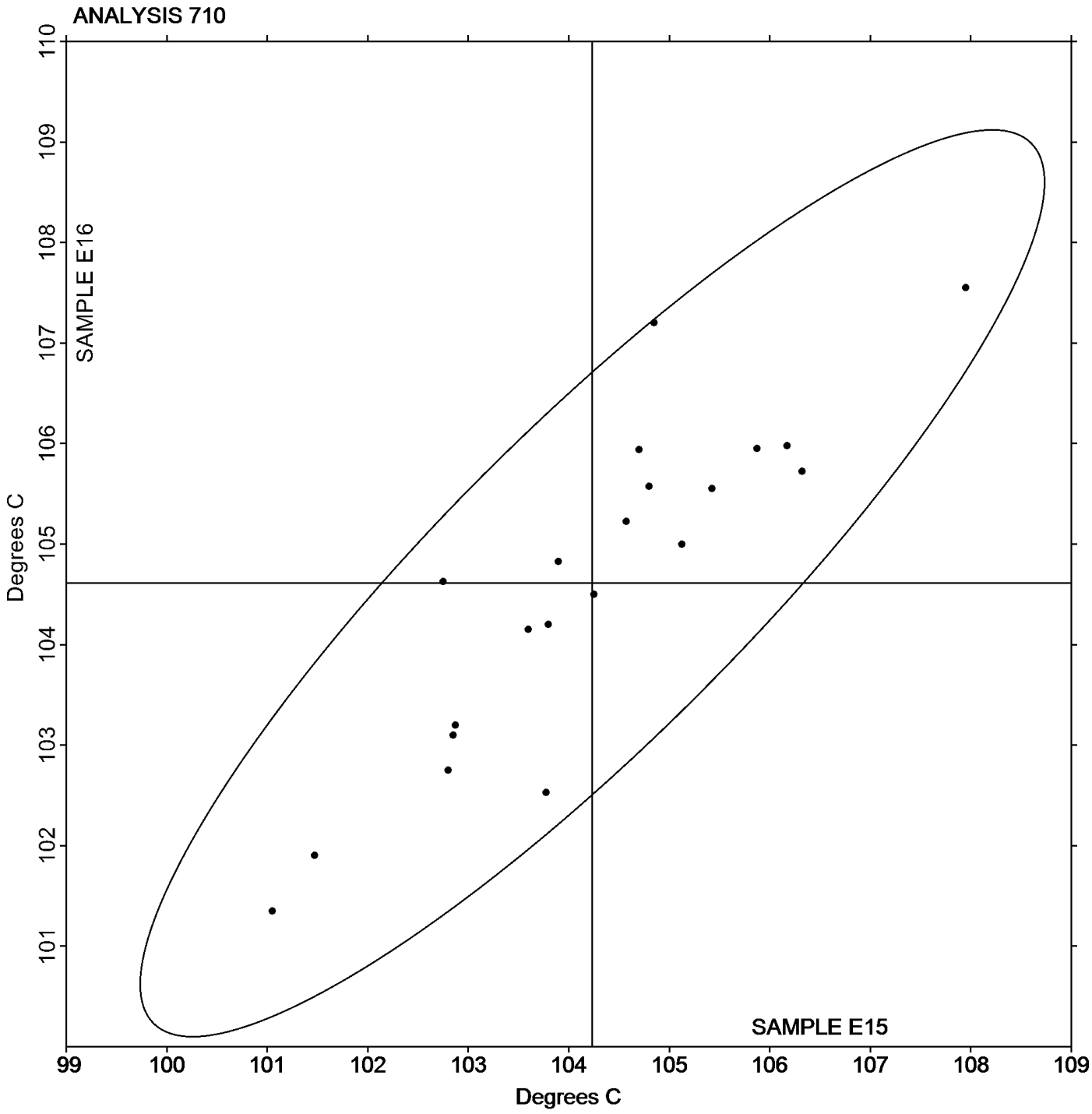
Statistics based on 21 of 21 reporting participants

Sample E15: ABS/PC & Sample E16: ABS/PC

Key to Instrument Codes Reported by Participants

AT	Atlas	CE	Ceast
CF	Coesfeld	CS	CSI
DN	DYNISCO	IN	Instron
TO	Tinius Olsen	TY	Toyoseiki

Grand Mean Sample E15: 104.23 Degrees C Grand Mean Sample E16: 104.61 Degrees C



WebCode	Data Flag	Sample G15 Lab Mean	Sample G15 Diff from Grand Mean	Sample G15 CPV	Sample G16 Lab Mean	Sample G16 Diff from Grand Mean	Sample G16 CPV	Instr Code
7H9TWL		94.9	0.2	0.06	92.3	-2.0	-0.77	TO
9YLYDA		94.2	-0.5	-0.18	90.7	-3.6	-1.38	XX
C8P6PF		96.1	1.4	0.51	96.1	1.7	0.66	IN
DYUPDG		93.7	-1.0	-0.38	94.5	0.2	0.08	CE
EFZ9TJ		95.8	1.1	0.40	95.6	1.3	0.50	XX
FLUXK8		94.3	-0.5	-0.18	90.6	-3.7	-1.39	XX
GPXT4B		90.1	-4.7	-1.74	91.5	-2.8	-1.06	TO
KAP9U9		99.3	4.6	1.70	98.7	4.4	1.67	TO
LHCLAY		92.2	-2.5	-0.93	93.1	-1.2	-0.45	IN
LQUVXV		92.9	-1.8	-0.67	92.9	-1.4	-0.54	TO
MKHDTY		99.3	4.5	1.69	98.8	4.5	1.69	RR
TBTVM6		92.7	-2.0	-0.76	94.5	0.2	0.07	TO
WMCC7M		97.8	3.0	1.13	96.4	2.0	0.77	CE
ZQLWGR		93.0	-1.7	-0.64	94.7	0.4	0.15	TO

Summary Statistics

	Sample G15	Sample G16
Grand Means	94.73 Degrees C	94.31 Degrees C
Stnd Dev Btwn Labs	2.68 Degrees C	2.64 Degrees C

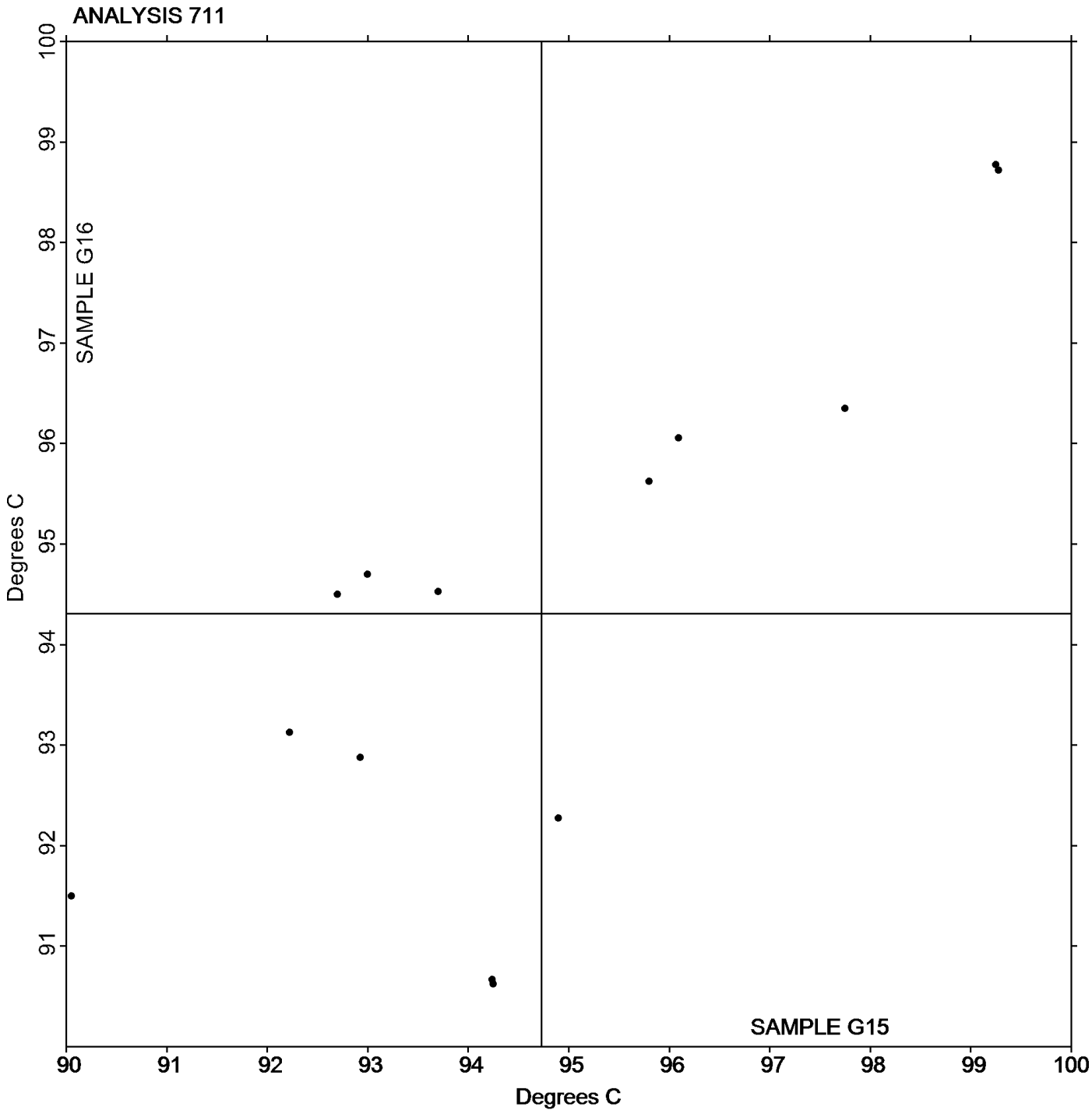
Statistics based on 14 of 14 reporting participants

Sample G15: PP & Sample G16: PP

Key to Instrument Codes Reported by Participants

CE Ceast
IN Instron
RR Ray-Ran
TO Tinius Olsen
XX Instrument manufacturer not specified by lab

Grand Mean Sample G15: 94.726 Degrees C Grand Mean Sample G16: 94.308 Degrees C



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 N15 Lab Mean	Sample N15 Diff from Grand Mean	Sample N15 CPV	Sample N16 Lab Mean	Sample N16 Diff from Grand Mean	Sample N16 CPV	Instr Code
3HZHTC		80.05	0.50	0.71	79.90	0.41	0.67	AT
4A43GD		80.15	0.60	0.85	80.18	0.68	1.11	IN
4G7CPR		78.59	-0.96	-1.37	78.42	-1.07	-1.74	TO
4Y3EPG		79.73	0.18	0.25	79.85	0.36	0.58	TY
6DDNKG	*	80.72	1.17	1.67	79.80	0.31	0.50	ZW
6N3BXR		79.75	0.20	0.29	80.13	0.63	1.03	CE
7B8G2N		79.65	0.10	0.14	79.50	0.01	0.02	TO
7F3BYP		79.60	0.05	0.07	79.15	-0.34	-0.55	TO
7H9TWL	*	77.98	-1.57	-2.24	77.85	-1.64	-2.67	TO
9YLYDA		79.33	-0.22	-0.31	79.45	-0.04	-0.07	TO
C8P6PF	X	87.53	7.98	11.36	87.35	7.86	12.77	IN
C8Q3ZB		81.08	1.53	2.17	80.55	1.06	1.72	CE
CYZKJG		80.00	0.45	0.64	80.13	0.63	1.03	IN
D4NJD3		79.00	-0.55	-0.78	79.05	-0.44	-0.72	CE
DYUPDG		80.13	0.58	0.82	79.88	0.38	0.63	CE
DZP6PD		78.13	-1.42	-2.03	78.63	-0.87	-1.41	CE
EFZ9TJ	X	84.88	5.33	7.58	84.73	5.23	8.51	XX
FBC4L9		79.90	0.35	0.50	79.98	0.48	0.79	TY
FLUXK8		79.68	0.13	0.18	79.45	-0.04	-0.07	XX
FTD4HE		80.10	0.55	0.78	79.85	0.36	0.58	IN
HHRLUZ		79.30	-0.25	-0.36	79.20	-0.29	-0.47	TO
KAP9U9		78.40	-1.15	-1.64	78.41	-1.08	-1.76	TO
KGM233		80.08	0.53	0.75	80.15	0.66	1.07	IN
KGRBYA		79.75	0.20	0.29	79.63	0.13	0.22	CE
L7J3T9		78.68	-0.87	-1.25	78.73	-0.77	-1.24	TO
LHCLAY		79.90	0.35	0.50	79.70	0.21	0.34	IN
LQUVXV		78.78	-0.77	-1.10	78.98	-0.52	-0.84	TO
MX4Q7U		79.25	-0.30	-0.43	79.35	-0.14	-0.23	XX
NDVZDW		80.00	0.45	0.64	80.03	0.53	0.87	IN
QCA7M8		79.13	-0.42	-0.60	79.33	-0.17	-0.27	CE
U2HU26		79.40	-0.15	-0.21	79.16	-0.33	-0.54	TO
VXJV6K		79.43	-0.12	-0.18	79.43	-0.07	-0.11	CE
WMCC7M	X	81.65	2.10	2.99	80.20	0.71	1.15	CF
XQ7TWL		79.83	0.28	0.39	79.78	0.28	0.46	TY
ZQLWGR		80.15	0.60	0.85	80.13	0.63	1.03	IN

Summary Statistics	Sample N15	Sample N16
Grand Means	79.550 Degrees C	79.490 Degrees C
Stnd Dev Btwn Labs	0.702 Degrees C	0.615 Degrees C

Statistics based on 32 of 35 reporting participants

Sample N15: HIPS & Sample N16: HIPS

Comments on Assigned Data Flags for Test #712

EFZ9TJ (X) - Data for both samples are high. Possible Systematic Error.

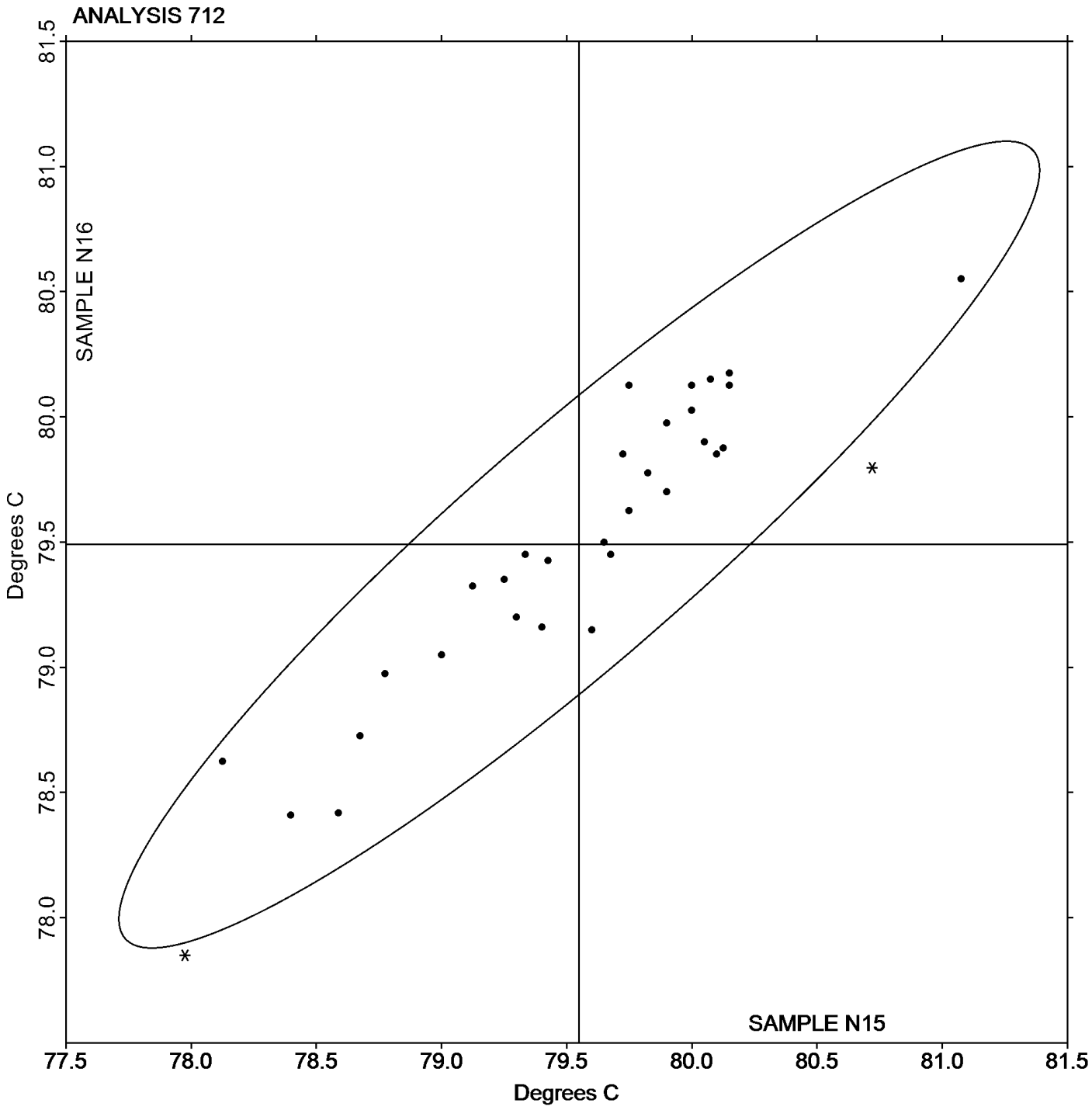
C8P6PF (X) - Data for both samples are high. Possible Systematic Error.

WMCC7M (X) - Data for sample N15 are high.

Key to Instrument Codes Reported by Participants

AT	Atlas	CE	Ceast
CF	Coesfeld	IN	Instron
TO	Tinius Olsen	TY	Toyoseiki
XX	Instrument manufacturer not specified by lab	ZW	Zwick

Grand Mean Sample N15: 79.550 Degrees C Grand Mean Sample N16: 79.490 Degrees C



WebCode	Data Flag	Sample H15 Lab Mean	Sample H15 Diff from Grand Mean	Sample H15 CPV	Sample H16 Lab Mean	Sample H16 Diff from Grand Mean	Sample H16 CPV	Instr Code
37MHWJ		138.50	-0.42	-0.74	138.30	-0.73	-1.25	IN
3HZHTC		139.57	0.64	1.12	139.63	0.60	1.03	AT
4A43GD		139.77	0.84	1.47	139.82	0.79	1.35	IN
4NMKEN		138.25	-0.67	-1.18	138.53	-0.50	-0.85	WZ
4Y3EPG		138.63	-0.29	-0.51	138.67	-0.36	-0.62	TY
9YLYDA		139.49	0.56	0.98	139.53	0.50	0.86	TO
C8P6PF		139.77	0.84	1.47	140.10	1.07	1.83	CF
C8Q3ZB		138.52	-0.41	-0.71	139.15	0.12	0.21	CE
CYZKJG		138.67	-0.26	-0.45	138.63	-0.40	-0.68	AT
DJDR9F		139.27	0.34	0.60	139.17	0.14	0.23	CE
DYUPDG		139.27	0.34	0.60	139.20	0.17	0.29	CE
EK73MF		139.32	0.39	0.68	139.27	0.24	0.41	CE
GTVAG6		138.77	-0.16	-0.28	138.72	-0.31	-0.54	IN
KAP9U9		138.15	-0.77	-1.35	138.10	-0.93	-1.59	TO
KGRBYA		138.12	-0.81	-1.41	138.25	-0.78	-1.34	CE
LHCLAY		138.35	-0.57	-1.00	138.88	-0.15	-0.25	IN
WMCC7M		139.33	0.41	0.71	139.57	0.54	0.92	CF

Summary Statistics

	Sample H15	Sample H16
Grand Means	138.925 Degrees C	139.030 Degrees C
Stnd Dev Btwn Labs	0.573 Degrees C	0.583 Degrees C

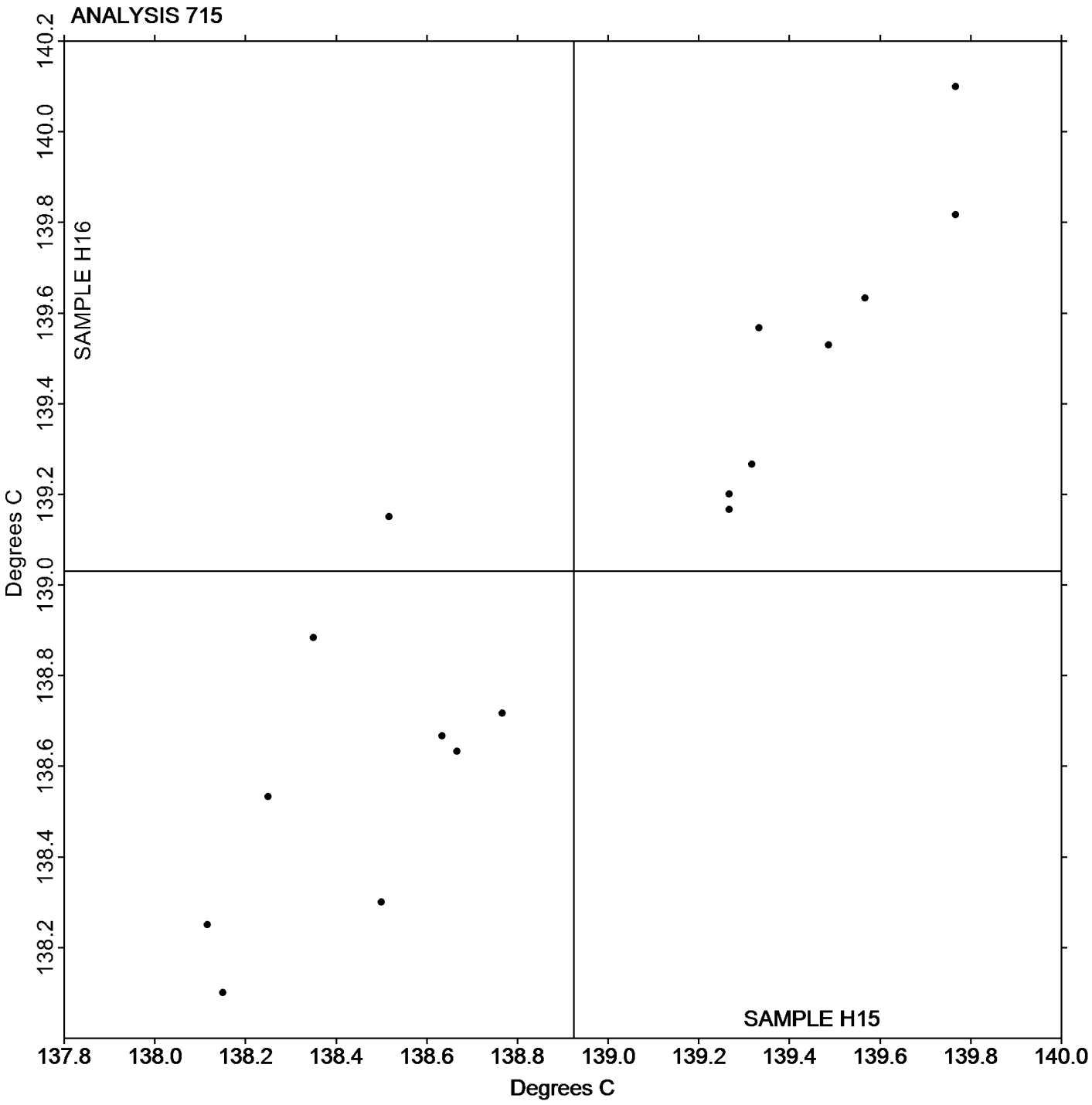
Statistics based on 17 of 17 reporting participants

Sample H15: ABS/PC & Sample H16: ABS/PC

Key to Instrument Codes Reported by Participants

AT Atlas
CE Ceast
CF Coesfeld
IN Instron
TO Tinius Olsen
TY Toyoseiki
WZ Zwick

Grand Mean Sample H15: 138.92 Degrees C Grand Mean Sample H16: 139.03 Degrees C



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 R15 Lab Mean	Sample R15 Diff from Grand Mean	Sample R15 CPV	Sample R16 Lab Mean	Sample R16 Diff from Grand Mean	Sample R16 CPV	Instr Code
37MHWJ		139.88	-0.70	-0.87	139.85	-0.88	-0.95	IN
3HZHTC		141.65	1.07	1.34	142.08	1.35	1.46	AT
4A43GD		141.72	1.14	1.42	142.25	1.52	1.64	IN
4NMKEN		140.17	-0.41	-0.51	140.15	-0.58	-0.62	WZ
4Y3EPG		140.13	-0.45	-0.56	140.20	-0.53	-0.57	TY
9YLYDA		139.59	-0.99	-1.23	139.58	-1.15	-1.24	TO
C8P6PF		141.07	0.49	0.61	140.90	0.17	0.18	CF
C8Q3ZB		141.42	0.84	1.04	141.78	1.05	1.14	CE
CYZKJG		140.70	0.12	0.15	140.77	0.04	0.04	AT
EK73MF		139.15	-1.43	-1.78	139.30	-1.43	-1.54	CE
GTVAG6		140.53	-0.05	-0.06	140.80	0.07	0.08	IN
KAP9U9		139.70	-0.88	-1.10	139.62	-1.11	-1.20	TO
KGRBYA		140.42	-0.16	-0.20	140.60	-0.13	-0.14	CE
LHCLAY		140.87	0.29	0.36	141.12	0.39	0.42	IN
LQUVXV		140.47	-0.11	-0.14	140.73	0.00	0.01	TO
WMCC7M		141.80	1.22	1.52	141.93	1.20	1.30	CF

Summary Statistics

	Sample R15	Sample R16
Grand Means	140.579 Degrees C	140.729 Degrees C
Stnd Dev Btwn Labs	0.802 Degrees C	0.928 Degrees C

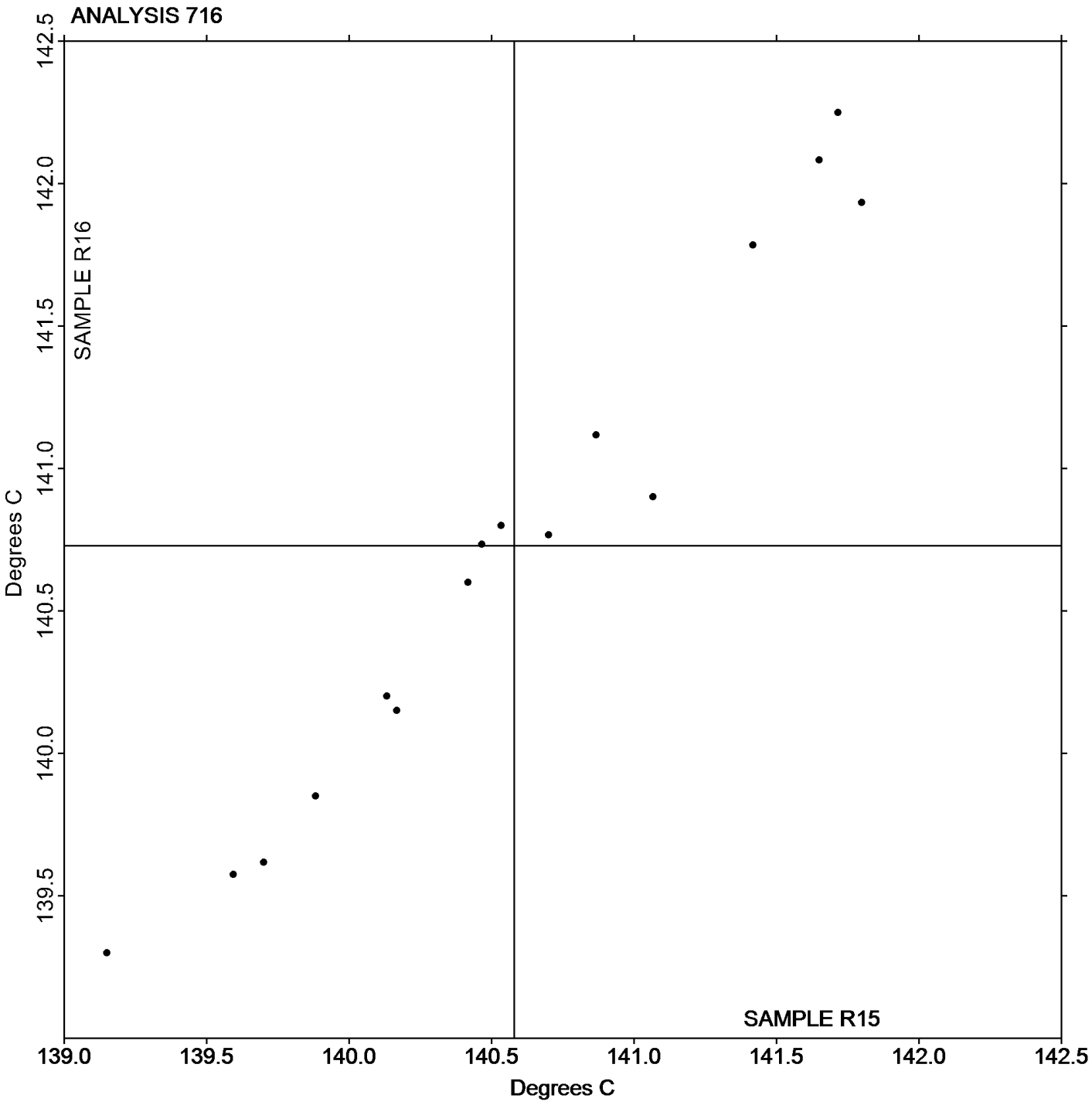
Statistics based on 16 of 16 reporting participants

Sample R15: ABS/PC & Sample R16: ABS/PC

Key to Instrument Codes Reported by Participants

AT Atlas
CE Ceast
CF Coesfeld
IN Instron
TO Tinius Olsen
TY Toyoseiki
WZ Zwick

Grand Mean Sample R15: 140.58 Degrees C Grand Mean Sample R16: 140.73 Degrees C



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 T15 Lab Mean	Sample T15 Diff from Grand Mean	Sample T15 CPV	Sample T16 Lab Mean	Sample T16 Diff from Grand Mean	Sample T16 CPV
3HZHTC	*	1.03800	0.00228	1.10	1.03567	0.00012	0.05
4A43GD		1.03320	-0.00252	-1.22	1.03420	-0.00135	-0.58
4AJ9UH		1.03440	-0.00132	-0.64	1.03427	-0.00128	-0.55
4C9U9Q		1.03617	0.00044	0.21	1.03640	0.00085	0.36
4KJWUR		1.03713	0.00141	0.68	1.03680	0.00125	0.53
4Y3EPG		1.03633	0.00061	0.29	1.03633	0.00078	0.33
6DDNKG		1.03433	-0.00139	-0.67	1.03500	-0.00055	-0.24
6TRXKK		1.03733	0.00161	0.78	1.03667	0.00112	0.48
76H99H		1.03453	-0.00119	-0.58	1.03560	0.00005	0.02
7CZE8A		1.03433	-0.00139	-0.67	1.03433	-0.00122	-0.52
7H9TWL		1.03850	0.00278	1.34	1.03840	0.00285	1.21
94GTBB		1.03197	-0.00376	-1.82	1.03007	-0.00548	-2.34
9DMNDG		1.03377	-0.00196	-0.95	1.03137	-0.00418	-1.78
9YLYDA	X	1.03200	-0.00372	-1.80	1.03500	-0.00055	-0.24
AQQH2B		1.03393	-0.00179	-0.87	1.03417	-0.00138	-0.59
B236P3		1.03537	-0.00036	-0.17	1.03613	0.00058	0.25
BF4UQ9		1.03703	0.00131	0.63	1.03717	0.00162	0.69
BVHZYM		1.03600	0.00028	0.13	1.03567	0.00012	0.05
C8P6PF		1.03750	0.00178	0.86	1.03720	0.00165	0.70
C8Q3ZB	*	1.04070	0.00498	2.41	1.04243	0.00688	2.93
CARDLD		1.03647	0.00074	0.36	1.03663	0.00108	0.46
CE64YK		1.03473	-0.00099	-0.48	1.03620	0.00065	0.28
CLNAU7		1.03400	-0.00172	-0.83	1.03400	-0.00155	-0.66
CYZKJG		1.03650	0.00078	0.38	1.03760	0.00205	0.87
D4NJD3		1.03510	-0.00062	-0.30	1.03360	-0.00195	-0.83
DCDE47		1.03923	0.00351	1.70	1.03863	0.00308	1.31
DQYT86	X	1.03300	-0.00272	-1.32	1.03633	0.00078	0.33
DUG69F		1.03713	0.00141	0.68	1.03740	0.00185	0.79
DYUPDG		1.03523	-0.00049	-0.24	1.03570	0.00015	0.06
EFZ9TJ		1.03367	-0.00206	-1.00	1.03367	-0.00188	-0.80
EME2V3	*	1.03033	-0.00539	-2.61	1.02933	-0.00622	-2.65
FBC4L9		1.03667	0.00094	0.46	1.03700	0.00145	0.62
FLUXK8		1.03667	0.00094	0.46	1.03700	0.00145	0.62
FN6M3Y	X	1.02200	-0.01372	-6.64	1.02733	-0.00822	-3.50
FQTC7C		1.03857	0.00284	1.37	1.03850	0.00295	1.26

WebCode	Data Flag	Sample T15 Lab Mean	Sample T15 Diff from Grand Mean	Sample T15 CPV	Sample T16 Lab Mean	Sample T16 Diff from Grand Mean	Sample T16 CPV
FTD4HE		1.03640	0.00068	0.33	1.03663	0.00108	0.46
GHFF6C		1.03740	0.00168	0.81	1.03600	0.00045	0.19
GPXT4B		1.03487	-0.00086	-0.42	1.03463	-0.00092	-0.39
KAP9U9		1.03747	0.00174	0.84	1.03753	0.00198	0.85
KGRBYA		1.03523	-0.00049	-0.24	1.03637	0.00082	0.35
KV7JZD		1.03977	0.00404	1.96	1.03887	0.00332	1.41
L7J3T9		1.03533	-0.00039	-0.19	1.03400	-0.00155	-0.66
LHCLAY		1.03717	0.00144	0.70	1.03793	0.00238	1.02
LQUVXV		1.03440	-0.00132	-0.64	1.03343	-0.00212	-0.90
LRNL4A		1.03603	0.00031	0.15	1.03667	0.00112	0.48
MX4Q7U		1.03467	-0.00106	-0.51	1.03467	-0.00088	-0.38
N4QVM2		1.03807	0.00234	1.13	1.03793	0.00238	1.02
NCZK2Z		1.03667	0.00094	0.46	1.03500	-0.00055	-0.24
NDVZDW		1.03560	-0.00012	-0.06	1.03617	0.00062	0.26
NZPUER		1.03757	0.00184	0.89	1.03820	0.00265	1.13
PR6DYM		1.03300	-0.00272	-1.32	1.03400	-0.00155	-0.66
QCA7M8		1.03600	0.00028	0.13	1.03533	-0.00022	-0.09
QJCFUZ	*	1.03500	-0.00072	-0.35	1.03200	-0.00355	-1.51
T4TAXQ		1.03603	0.00031	0.15	1.03517	-0.00038	-0.16
TEQCZY		1.03323	-0.00249	-1.21	1.03143	-0.00412	-1.76
TEVR9T		1.03700	0.00128	0.62	1.03703	0.00148	0.63
U2HU26		1.03533	-0.00039	-0.19	1.03500	-0.00055	-0.24
U3EBVT		1.03800	0.00228	1.10	1.03800	0.00245	1.04
U6JV4M		1.03550	-0.00022	-0.11	1.03413	-0.00142	-0.60
UMZ2DX	*	1.03000	-0.00572	-2.77	1.03000	-0.00555	-2.37
UVXTLR		1.03783	0.00211	1.02	1.03760	0.00205	0.87
UWTAXN	X	1.03523	-0.00049	-0.24	1.03093	-0.00462	-1.97
VXJV6K		1.03500	-0.00072	-0.35	1.03433	-0.00122	-0.52
W6VFHG		1.03200	-0.00372	-1.80	1.03300	-0.00255	-1.09
WMCC7M	X	1.04350	0.00778	3.76	1.04200	0.00645	2.75
YKUCRQ		1.03455	-0.00117	-0.57	1.03488	-0.00067	-0.29
YL9PKT		1.03710	0.00138	0.67	1.03743	0.00188	0.80
ZQLWGR		1.03360	-0.00212	-1.03	1.03323	-0.00232	-0.99

Summary Statistics	Sample T15	Sample T16
Grand Means	1.035725 sp gr 23/23 C	1.035551 sp gr 23/23 C
Stnd Dev Btwn Labs	0.002067 sp gr 23/23 C	0.002345 sp gr 23/23 C

Statistics based on 63 of 68 reporting participants

Sample T15: HIPS & Sample T16: HIPS

Comments on Assigned Data Flags for Test #718

WMCC7M (X) - Data for both samples are high. Possible Systematic Error.

UWTAXN (X) - Inconsistent in testing between samples.

DQYT86 (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample T15.

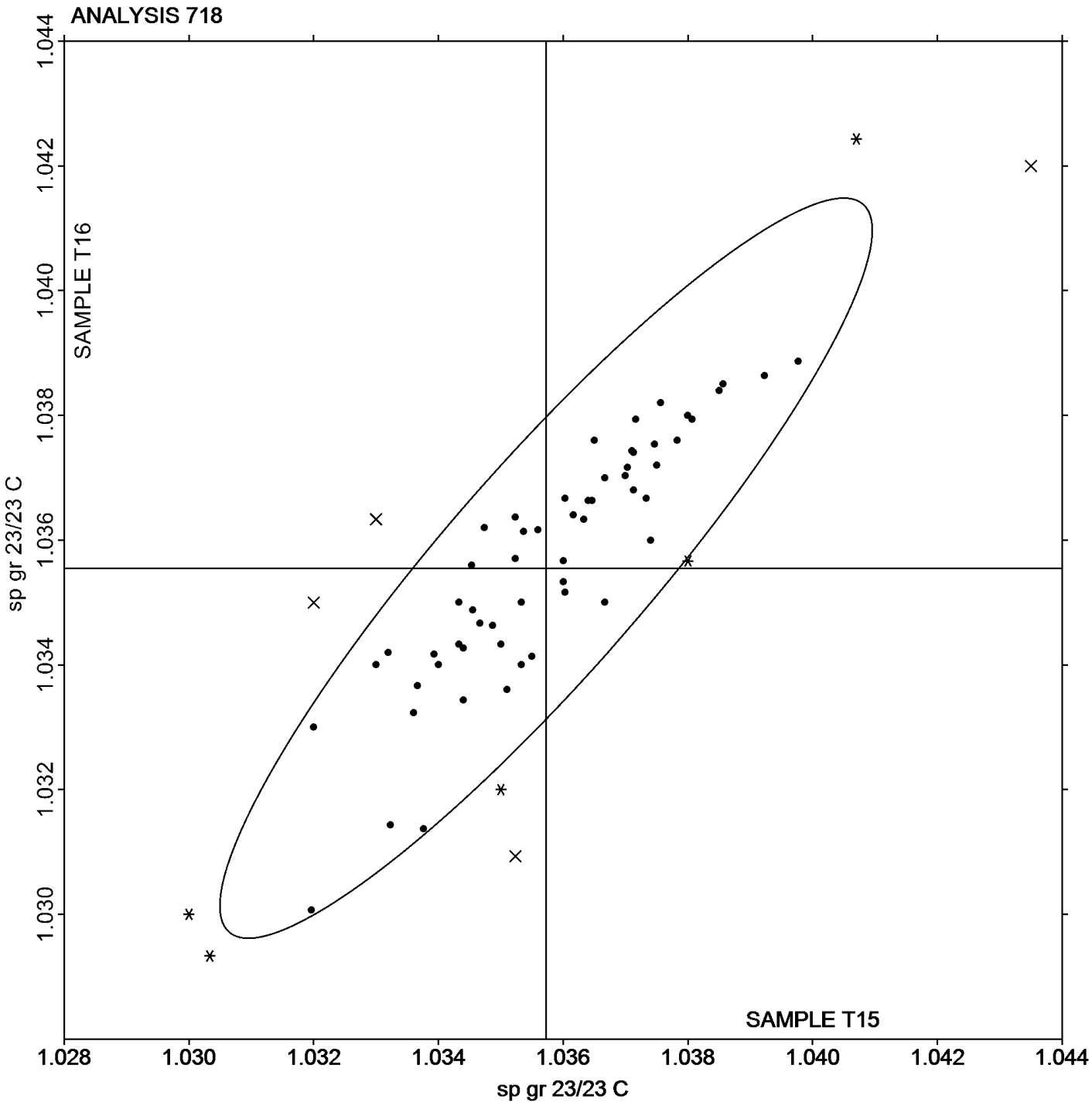
9YLYDA (X) - Inconsistent in testing between samples.

FN6M3Y (X) - Data for both samples are low. Possible Systematic Error.

Results by Methodology (as reported by laboratory)

	Sample T15 *HIPS*			Sample T16 *HIPS*			
Test Methodology	**Group Mean**	**Btwn Lab STD**	**Diff from GM**	**Group Mean**	**Btwn Lab STD**	**Diff from GM**	**Labs Incl / Rpt**
ASTM D792 Method A (water)	1.035881	0.002191	0.000	1.035730	0.002561	0.000	41/46
ASTM D792 Method B (not water)	1.036283	0.001485	0.001	1.036517	0.000212	0.001	2/2
ASTM D1505	1.035233	0.000000	0.000	1.035700	0.000000	0.000	1/1
ISO 1183	1.035354	0.001918	0.000	1.035056	0.001982	0.000	19/19

Grand Mean Sample T15: 1.0357 sp gr 23/23 C Grand Mean Sample T16: 1.0356 sp gr 23/23 C



WebCode	Data Flag	Sample J15 Lab Mean	Sample J15 Diff from Grand Mean	Sample J15 CPV	Sample J16 Lab Mean	Sample J16 Diff from Grand Mean	Sample J16 CPV
3EZDTD		321.3	-12.5	-0.62	320.1	-13.3	-0.67
3HZHTC		343.2	9.4	0.46	343.2	9.8	0.49
4A43GD		327.9	-5.9	-0.29	325.9	-7.5	-0.38
4KJWUR		328.2	-5.6	-0.28	324.6	-8.8	-0.44
4Y3EPG		332.3	-1.5	-0.07	331.8	-1.6	-0.08
7H9TWL		320.2	-13.6	-0.67	320.4	-13.0	-0.65
94GTBB	X	417.8	84.0	4.15	417.2	83.8	4.21
9DMNDG		316.9	-16.9	-0.84	315.3	-18.1	-0.91
9UDN9M		359.8	26.0	1.29	359.4	26.0	1.31
9V7TEE		325.3	-8.5	-0.42	327.4	-6.0	-0.30
9YLYDA	X	2.9	-330.9	-16.38	2.8	-330.6	-16.60
AG68XB	*	390.4	56.6	2.80	384.0	50.6	2.54
ARLYD9		335.6	1.8	0.09	338.4	5.0	0.25
BF4UQ9		326.6	-7.2	-0.36	325.4	-8.0	-0.40
C8P6PF		344.6	10.8	0.53	345.3	11.9	0.60
CYZKJG		316.9	-16.9	-0.84	319.8	-13.6	-0.68
DGTPGA		316.7	-17.2	-0.85	314.5	-18.9	-0.95
DQUCA8		334.9	1.1	0.06	333.7	0.3	0.01
DYUPDG		341.2	7.4	0.36	333.6	0.2	0.01
ECXBF7		311.8	-22.0	-1.09	312.2	-21.2	-1.06
EFZ9TJ		336.2	2.4	0.12	335.6	2.2	0.11
FLUXK8		335.9	2.1	0.10	333.0	-0.4	-0.02
FN6M3Y		306.4	-27.4	-1.36	310.0	-23.4	-1.17
FPT9G8		337.1	3.3	0.16	338.3	4.9	0.25
FTFQ2D	X	216.7	-117.1	-5.80	210.2	-123.2	-6.19
GPXT4B		324.1	-9.7	-0.48	324.5	-8.9	-0.45
JUFXRV		319.0	-14.8	-0.73	318.0	-15.4	-0.77
KAP9U9		347.5	13.7	0.68	347.6	14.2	0.71
L2TTHA		340.0	6.2	0.31	342.4	9.0	0.45
LHCLAY		359.0	25.2	1.25	359.6	26.2	1.32
LQUVXV		357.0	23.2	1.15	357.6	24.2	1.22
LRNL4A		338.9	5.1	0.25	338.5	5.1	0.25
LXPXY8	*	348.7	14.9	0.74	357.1	23.7	1.19
MKHDTY		331.4	-2.4	-0.12	329.0	-4.4	-0.22
N4QVM2		326.5	-7.4	-0.36	329.1	-4.3	-0.22

WebCode	Data Flag	Sample J15 Lab Mean	Sample J15 Diff from Grand Mean	Sample J15 CPV	Sample J16 Lab Mean	Sample J16 Diff from Grand Mean	Sample J16 CPV
NCZK2Z		310.1	-23.7	-1.17	315.4	-18.0	-0.90
TBTVM6	*	388.9	55.1	2.73	388.0	54.6	2.74
TEVR9T		345.7	11.9	0.59	347.1	13.7	0.69
U3BR8Q		287.7	-46.1	-2.28	288.1	-45.3	-2.28
UWTAXN		301.0	-32.8	-1.62	300.4	-33.0	-1.66
WBEJPJ		335.8	2.0	0.10	334.8	1.4	0.07
YL9PKT		335.5	1.7	0.08	331.0	-2.4	-0.12
YMQHJH		355.8	22.0	1.09	353.8	20.3	1.02
ZQLWGR	*	324.3	-9.5	-0.47	315.4	-18.0	-0.91

Summary Statistics

	Sample J15	Sample J16
Grand Means	333.82 ksi	333.40 ksi
Stnd Dev Btwn Labs	20.21 ksi	19.91 ksi

Statistics based on 41 of 44 reporting participants

Sample J15: ABS/PC & Sample J16: ABS/PC

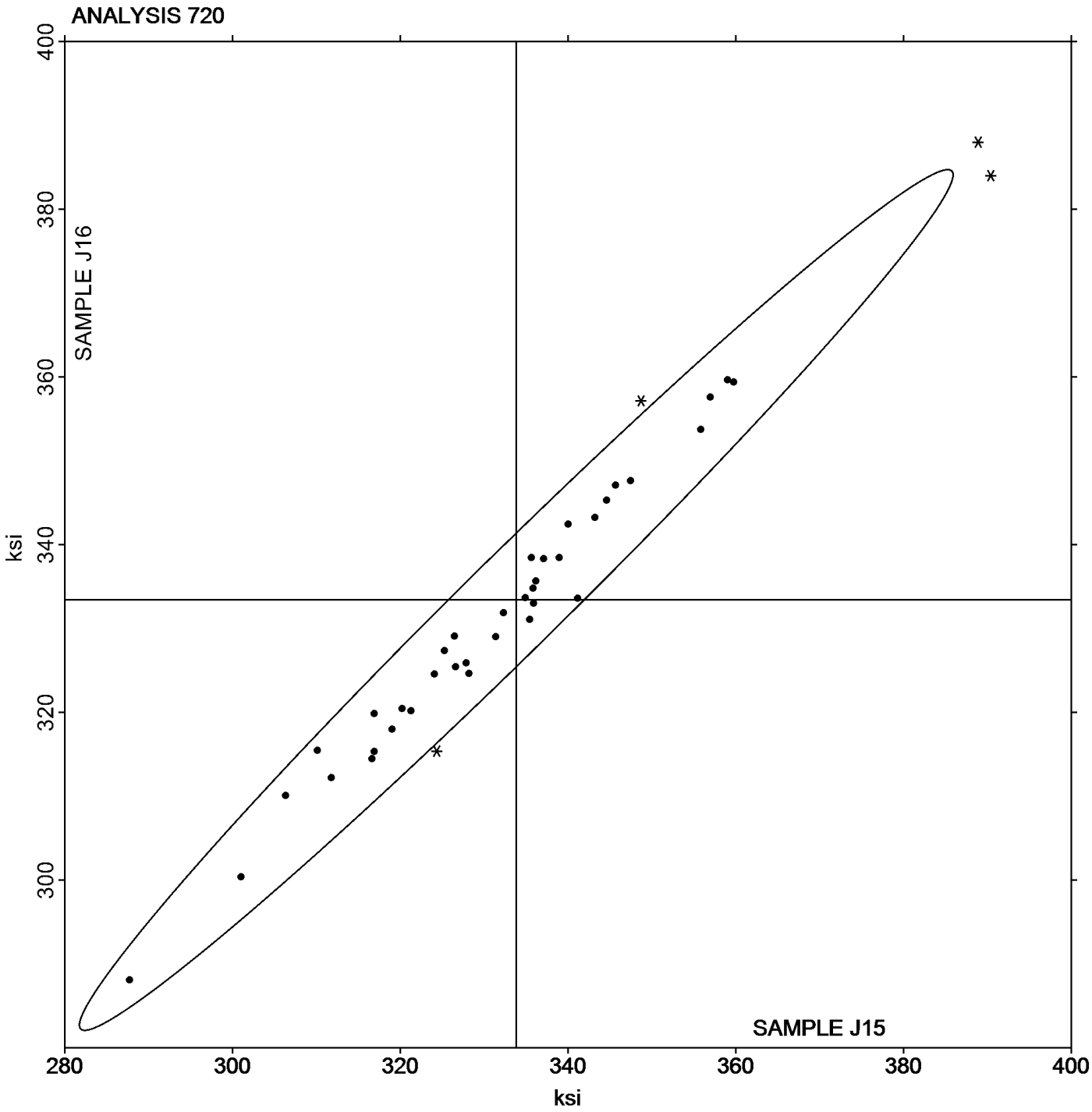
Comments on Assigned Data Flags for Test #720

FTFQ2D (X) - Data for both samples are low.

9YLYDA (X) - Extreme data.

94GTBB (X) - Data for both samples are high. Possible Systematic Error.

Grand Mean Sample J15: 333.82 ksi Grand Mean Sample J16: 333.40 ksi



WebCode	Data Flag	Sample J15 Lab Mean	Sample J15 Diff from Grand Mean	Sample J15 CPV	Sample J16 Lab Mean	Sample J16 Diff from Grand Mean	Sample J16 CPV
3EZDTD		11,828	211	0.36	11,864	250	0.44
3HZHTC		12,256	638	1.08	12,247	633	1.12
4A43GD		12,042	425	0.72	12,045	430	0.76
4KJWUR		11,299	-319	-0.54	11,240	-375	-0.66
4Y3EPG		11,425	-192	-0.32	11,511	-104	-0.18
94GTBB	X	14,162	2,545	4.31	14,119	2,505	4.43
9DMNDG		11,189	-428	-0.72	11,187	-428	-0.76
9UDN9M	*	13,040	1,423	2.41	12,860	1,245	2.20
9V7TEE		11,809	192	0.32	11,939	324	0.57
9YLYDA		11,720	103	0.17	11,580	-35	-0.06
AG68XB	*	13,460	1,843	3.12	13,380	1,765	3.13
ARLYD9		11,607	-11	-0.02	11,597	-18	-0.03
BF4UQ9		12,052	435	0.74	12,078	463	0.82
C8P6PF		11,602	-15	-0.03	11,608	-7	-0.01
CYZKJG		11,883	266	0.45	11,902	288	0.51
DGTPGA		11,732	115	0.19	11,557	-58	-0.10
DQUCA8		11,566	-52	-0.09	11,569	-46	-0.08
ECXBF7		10,611	-1,006	-1.70	10,738	-876	-1.55
FN6M3Y		11,178	-439	-0.74	11,068	-547	-0.97
FPT9G8		11,829	212	0.36	11,762	147	0.26
FTFQ2D		11,082	-536	-0.91	11,154	-460	-0.81
GPXT4B		11,079	-538	-0.91	11,040	-575	-1.02
JUFXRV		10,884	-733	-1.24	10,790	-824	-1.46
L2TTHA		12,141	524	0.89	12,060	445	0.79
LHCLAY		11,770	153	0.26	11,764	149	0.26
LRNL4A	X	8	-11,609	-19.64	8	-11,606	-20.55
LXPXY8		12,104	487	0.82	12,215	601	1.06
MKHDTY		11,600	-17	-0.03	11,560	-55	-0.10
N4QVM2		11,426	-191	-0.32	11,450	-165	-0.29
NCZK2Z		10,904	-713	-1.21	11,060	-555	-0.98
TBTVM6	X	12,706	1,089	1.84	12,036	421	0.75
TEVR9T		11,609	-8	-0.01	11,714	99	0.18
U3BR8Q		10,844	-773	-1.31	10,942	-672	-1.19
UWTAXN		11,065	-552	-0.93	11,050	-564	-1.00
WBEJPJ		11,290	-327	-0.55	11,258	-357	-0.63

WebCode	Data Flag	Sample J15 Lab Mean	Sample J15 Diff from Grand Mean	Sample J15 CPV	Sample J16 Lab Mean	Sample J16 Diff from Grand Mean	Sample J16 CPV
YL9PKT		11,441	-176	-0.30	11,496	-118	-0.21

Summary Statistics

	Sample J15	Sample J16
Grand Means	11,617.1 psi	11,614.7 psi
Stnd Dev Btwn Labs	591.2 psi	564.9 psi

Statistics based on 33 of 36 reporting participants

Sample J15: ABS/PC & Sample J16: ABS/PC

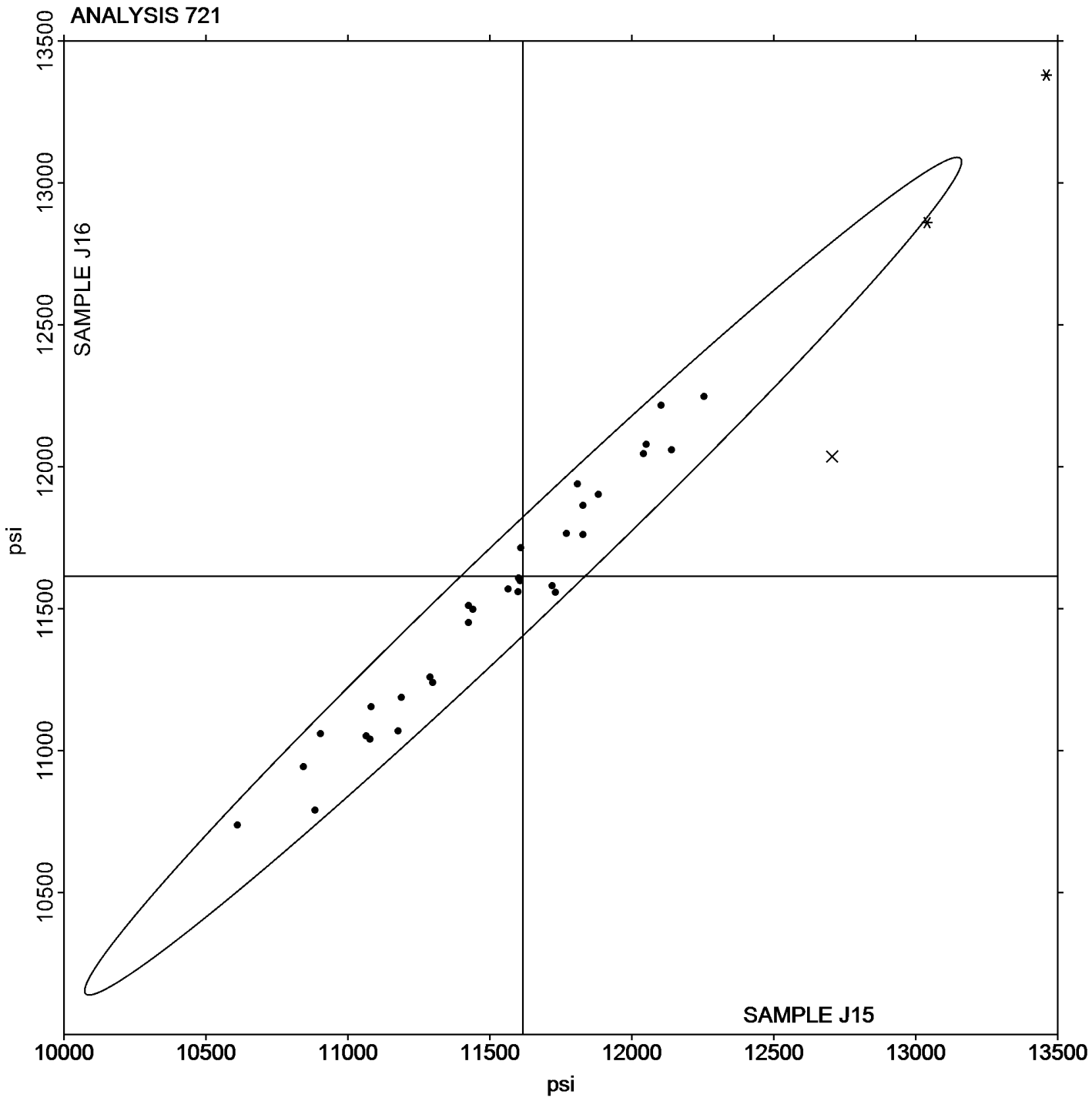
Comments on Assigned Data Flags for Test #721

TBTVM6 (X) - Inconsistent in testing between samples. Inconsistent within the determinations of both samples.

LRNL4A (X) - Extreme data.

94GTBB (X) - Data for both samples are high. Possible Systematic Error.

Grand Mean Sample J15: 11,617.13 psi Grand Mean Sample J16: 11,614.68 psi



WebCode	Data Flag	Sample J15 Lab Mean	Sample J15 Diff from Grand Mean	Sample J15 CPV	Sample J16 Lab Mean	Sample J16 Diff from Grand Mean	Sample J16 CPV
4A43GD		12,044	267	0.34	12,046	264	0.36
4KJWUR		11,551	-227	-0.29	11,620	-162	-0.22
4Y3EPG		11,481	-296	-0.38	11,557	-225	-0.31
7H9TWL		11,856	78	0.10	11,905	123	0.17
9DMNDG		11,348	-430	-0.55	11,362	-420	-0.57
9UDN9M		13,260	1,482	1.90	13,100	1,318	1.79
9V7TEE		12,095	318	0.41	12,237	455	0.62
9YLYDA		11,600	-178	-0.23	11,580	-202	-0.27
AG68XB		13,580	1,802	2.31	13,580	1,798	2.44
ARLYD9		11,880	103	0.13	11,884	102	0.14
BF4UQ9		11,724	-54	-0.07	11,750	-32	-0.04
CYZKJG		12,125	347	0.44	12,133	351	0.48
DGTPGA		11,702	-76	-0.10	11,571	-211	-0.29
DQUCA8		11,813	36	0.05	11,798	16	0.02
ECXBF7		11,170	-608	-0.78	11,303	-479	-0.65
FN6M3Y	X	9,259	-2,519	-3.22	9,063	-2,719	-3.69
FPT9G8		12,046	268	0.34	11,996	214	0.29
FTFQ2D	*	9,567	-2,210	-2.83	9,642	-2,140	-2.90
JUFXRV		10,884	-894	-1.14	10,790	-992	-1.34
L2TTHA	*	12,883	1,105	1.41	12,537	755	1.02
LRNL4A	X	11,565	-212	-0.27	11,096	-686	-0.93
LXPXY8		12,328	550	0.70	12,351	569	0.77
MKHDTY		11,800	22	0.03	11,800	18	0.02
N4QVM2		11,732	-45	-0.06	11,789	7	0.01
NCZK2Z		10,506	-1,271	-1.63	10,628	-1,154	-1.56
TBTVM6	X	12,864	1,086	1.39	12,132	350	0.47
U3BR8Q		11,226	-552	-0.71	11,417	-365	-0.49
WBEJPJ		11,344	-434	-0.56	11,317	-465	-0.63
YL9PKT		11,691	-87	-0.11	11,732	-50	-0.07
YMQHJH		12,515	738	0.94	12,492	710	0.96
ZQLWGR		12,020	243	0.31	11,979	197	0.27

Summary Statistics	Sample J15	Sample J16
Grand Means	11,777.5 psi	11,782.0 psi
Stnd Dev Btwn Labs	781.6 psi	737.7 psi

Statistics based on 28 of 31 reporting participants

Sample J15: ABS/PC & Sample J16: ABS/PC

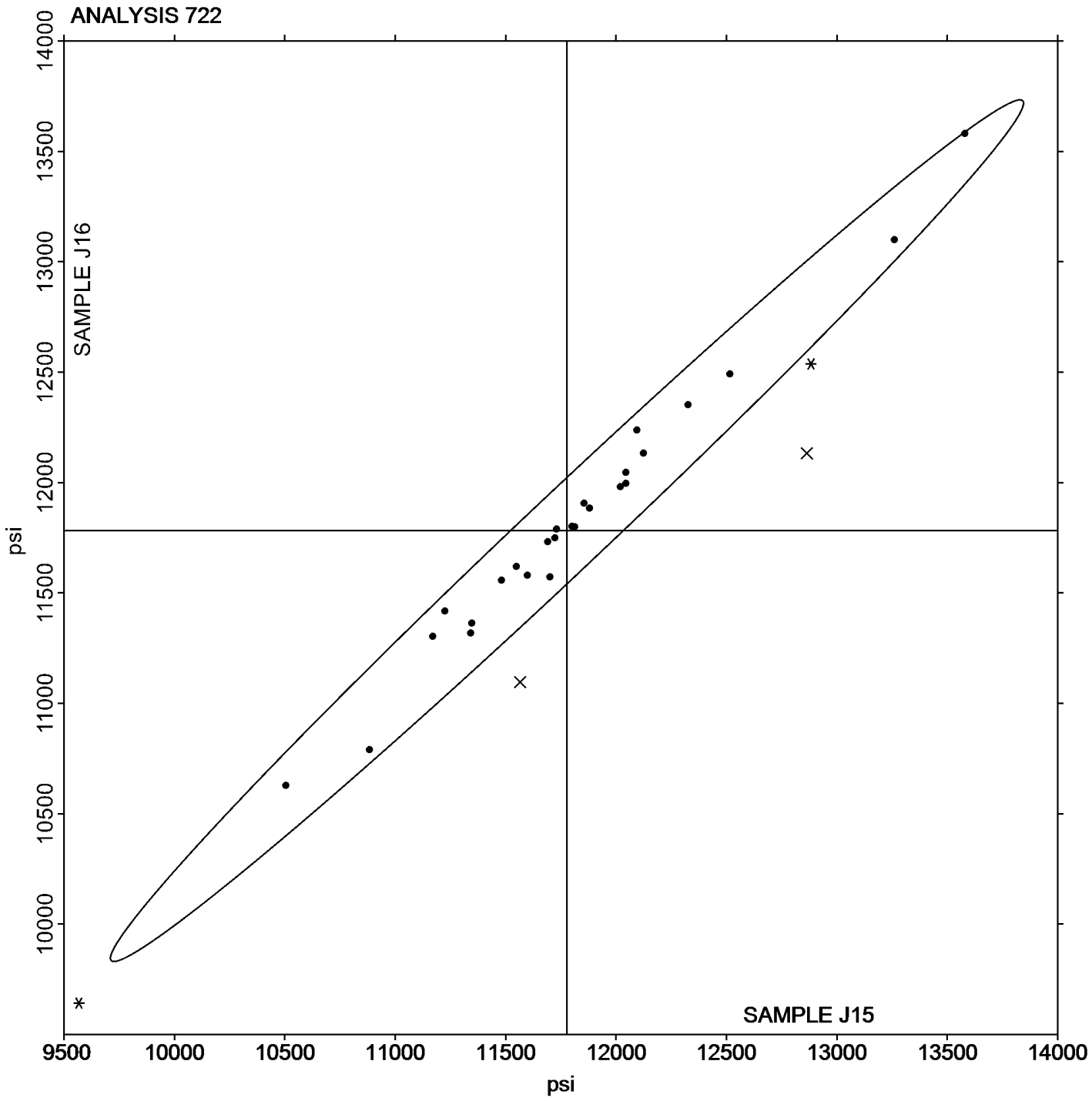
Comments on Assigned Data Flags for Test #722

TBTVM6 (X) - Inconsistent in testing between samples. Inconsistent within the determinations of both samples.

LRNL4A (X) - Inconsistent in testing between samples.

FN6M3Y (X) - Data for both samples are low. Possible Systematic Error.

Grand Mean Sample J15: 11,777.51 psi Grand Mean Sample J16: 11,782.01 psi



WebCode	Data Flag	Sample C15 Lab Mean	Sample C15 Diff from Grand Mean	Sample C15 CPV	Sample C16 Lab Mean	Sample C16 Diff from Grand Mean	Sample C16 CPV
2GR4NR		49.85	0.28	0.38	49.56	0.01	0.02
37MHWJ		48.76	-0.81	-1.10	48.70	-0.84	-1.11
4A43GD		49.15	-0.42	-0.57	48.83	-0.71	-0.93
4G7CPR		50.16	0.59	0.79	50.18	0.64	0.83
4Y3EPG		49.15	-0.42	-0.57	48.93	-0.62	-0.81
6CH7HF		48.88	-0.69	-0.94	48.48	-1.06	-1.40
6DDNKG		50.26	0.69	0.93	50.31	0.76	1.00
7B8G2N		50.11	0.53	0.72	49.85	0.31	0.40
7F3BYP		49.33	-0.24	-0.33	49.09	-0.46	-0.60
7H9TWL		50.26	0.69	0.92	50.16	0.62	0.81
8DTHJH		50.11	0.54	0.73	50.13	0.58	0.76
94GTBB	X	53.85	4.27	5.76	54.04	4.50	5.89
9YLYDA		48.28	-1.29	-1.74	48.22	-1.32	-1.74
A8V3KK	*	47.39	-2.18	-2.94	47.60	-1.95	-2.55
BVHZYM	*	50.41	0.83	1.12	50.96	1.41	1.85
C8P6PF		48.99	-0.58	-0.79	49.44	-0.11	-0.14
C8Q3ZB		49.55	-0.02	-0.03	49.44	-0.10	-0.13
CLNAU7		48.98	-0.59	-0.80	49.14	-0.40	-0.53
CYZKJG		50.42	0.85	1.14	50.42	0.88	1.15
D4NJD3		49.62	0.04	0.06	49.61	0.07	0.09
DCDE47		50.02	0.45	0.60	49.66	0.12	0.15
DYUPDG		49.50	-0.07	-0.10	49.08	-0.47	-0.61
DZP6PD	*	51.41	1.84	2.47	51.13	1.58	2.07
EFZ9TJ		48.82	-0.75	-1.02	48.76	-0.78	-1.03
EME2V3		50.76	1.19	1.60	50.72	1.18	1.54
F8T9K2		49.79	0.22	0.29	49.66	0.12	0.15
FBC4L9		49.94	0.37	0.49	50.00	0.46	0.60
FLUXK8		49.23	-0.34	-0.46	49.56	0.02	0.03
FPT9G8		48.66	-0.91	-1.23	48.84	-0.70	-0.92
FTD4HE		47.92	-1.65	-2.23	47.98	-1.56	-2.05
KAP9U9		49.33	-0.25	-0.33	49.36	-0.18	-0.24
KGRBYA		49.64	0.07	0.09	49.46	-0.08	-0.11
KK7TE6		50.51	0.94	1.26	50.80	1.26	1.65
L7J3T9	X	53.65	4.08	5.50	53.25	3.70	4.85
LHCLAY		50.03	0.46	0.61	49.81	0.26	0.34

WebCode	Data Flag	Sample C15 Lab Mean	Sample C15 Diff from Grand Mean	Sample C15 CPV	Sample C16 Lab Mean	Sample C16 Diff from Grand Mean	Sample C16 CPV
LQUVXV		49.96	0.39	0.52	49.32	-0.22	-0.29
LRNL4A		48.95	-0.63	-0.84	48.87	-0.67	-0.88
LXPXY8		49.05	-0.53	-0.71	49.16	-0.39	-0.51
MVKRYR		49.69	0.12	0.16	49.86	0.32	0.42
MX4Q7U		50.02	0.45	0.60	50.16	0.62	0.81
N4QVM2		50.71	1.13	1.52	50.87	1.32	1.73
NDVZDW		49.32	-0.26	-0.35	49.06	-0.48	-0.63
NZPUER	X	52.63	3.05	4.11	52.53	2.98	3.91
QCA7M8		49.70	0.13	0.17	50.22	0.68	0.89
RWYUPL		49.20	-0.37	-0.51	49.18	-0.36	-0.48
T4TAXQ		49.91	0.33	0.45	49.93	0.39	0.51
TEQCZY		49.33	-0.24	-0.33	49.55	0.00	0.00
U2HU26		49.51	-0.06	-0.09	49.29	-0.25	-0.33
U6JV4M		50.44	0.86	1.16	50.24	0.70	0.91
UWTAXN		48.49	-1.09	-1.46	48.37	-1.17	-1.53
VXJV6K		49.10	-0.48	-0.65	49.14	-0.40	-0.53
VYVGUL		49.70	0.13	0.17	49.13	-0.41	-0.54
W6VFHG		50.63	1.06	1.42	50.68	1.14	1.49
WMCC7M		49.56	-0.01	-0.02	49.66	0.12	0.15
XQ7TWL		49.41	-0.17	-0.22	49.64	0.09	0.12
ZQLWGR		49.56	-0.01	-0.02	49.66	0.12	0.15

Summary Statistics

	Sample C15	Sample C16
Grand Means	49.575 MPa	49.545 MPa
Stnd Dev Btwn Labs	0.742 MPa	0.763 MPa

Statistics based on 53 of 56 reporting participants

Sample C15: ABS/PC & Sample C16: ABS/PC

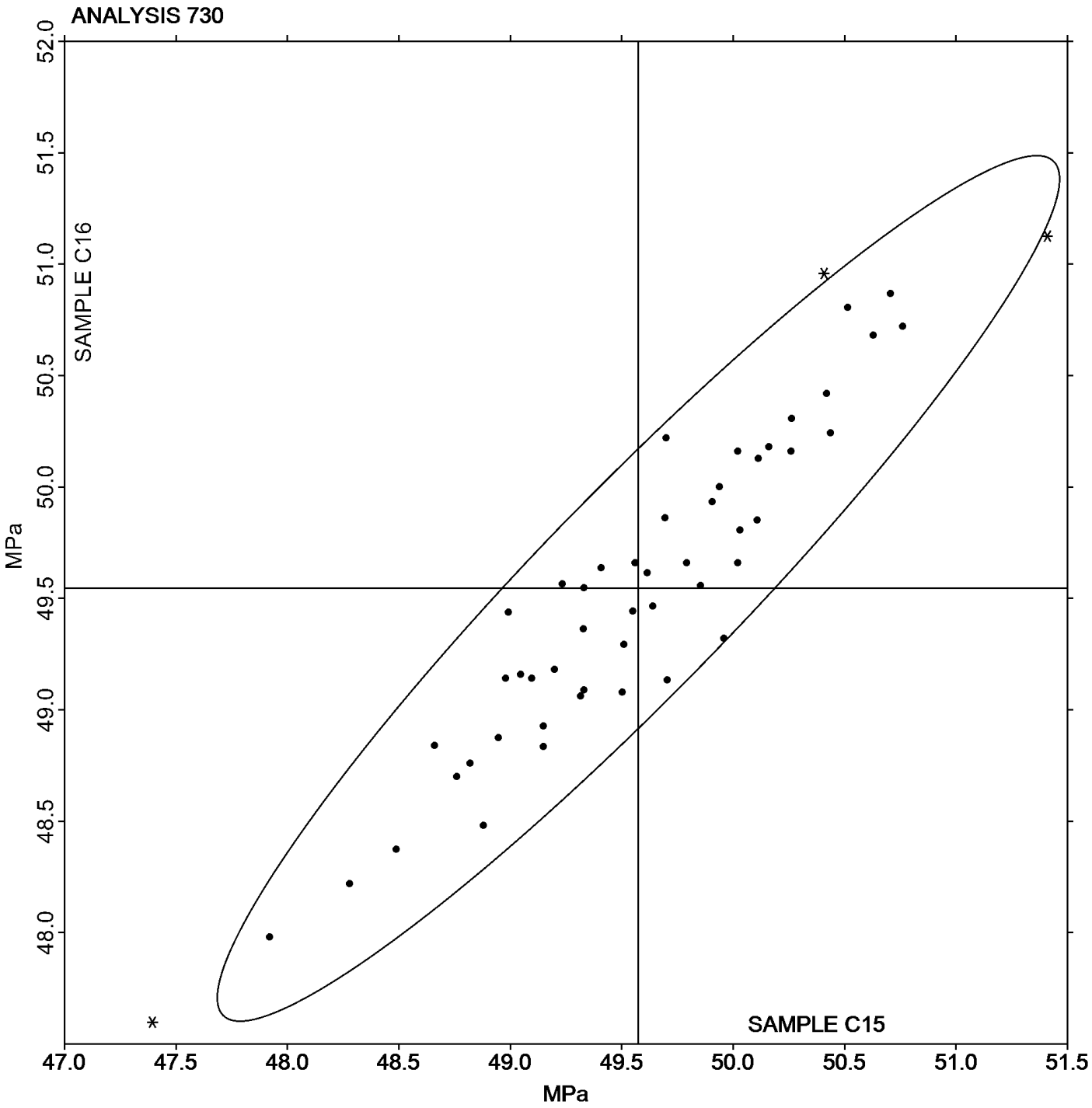
Comments on Assigned Data Flags for Test #730

L7J3T9 (X) - Data for both samples are high. Possible Systematic Error.

94GTBB (X) - Data for both samples are high. Possible Systematic Error. Inconsistent within the determinations of sample C15.

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

Grand Mean Sample C15: 49.575 MPa Grand Mean Sample C16: 49.545 MPa



WebCode	Data Flag	Sample C15 Lab Mean	Sample C15 Diff from Grand Mean	Sample C15 CPV	Sample C16 Lab Mean	Sample C16 Diff from Grand Mean	Sample C16 CPV
37MHWJ		43.86	-1.43	-0.76	44.78	-0.54	-0.28
4A43GD		47.27	1.98	1.05	45.40	0.09	0.05
4Y3EPG		46.81	1.52	0.81	45.98	0.66	0.35
6CH7HF		42.40	-2.89	-1.53	42.46	-2.86	-1.51
6DDNKG		45.54	0.25	0.13	45.39	0.07	0.04
7B8G2N		44.97	-0.32	-0.17	44.37	-0.94	-0.50
7F3BYP		46.15	0.86	0.46	45.54	0.22	0.12
7H9TWL		46.56	1.27	0.68	47.72	2.40	1.27
8DTHJH		42.40	-2.89	-1.53	42.82	-2.49	-1.32
94GTBB	X	45.80	0.51	0.27	51.45	6.13	3.25
9YLYDA		40.94	-4.35	-2.31	41.38	-3.94	-2.08
A8V3KK		44.93	-0.35	-0.19	45.55	0.23	0.12
BVHZYM		46.68	1.39	0.74	46.15	0.84	0.44
C8P6PF		44.24	-1.05	-0.56	45.31	0.00	0.00
C8Q3ZB		43.14	-2.15	-1.14	43.54	-1.78	-0.94
CLNAU7		43.18	-2.11	-1.12	42.94	-2.38	-1.26
CYZKJG	X	49.42	4.13	2.19	44.64	-0.68	-0.36
D4NJD3		48.34	3.05	1.62	48.35	3.04	1.61
DCDE47		44.85	-0.44	-0.23	44.15	-1.17	-0.62
DYUPDG		44.45	-0.84	-0.44	42.98	-2.34	-1.24
EME2V3		44.18	-1.11	-0.59	43.86	-1.46	-0.77
F8T9K2		43.88	-1.41	-0.75	45.66	0.34	0.18
FBC4L9	*	50.05	4.76	2.53	48.22	2.90	1.54
FPT9G8		47.52	2.23	1.19	47.98	2.66	1.41
FTD4HE		43.08	-2.21	-1.17	42.59	-2.73	-1.44
KGRBYA		46.13	0.84	0.45	47.42	2.10	1.11
KK7TE6		45.53	0.24	0.13	45.24	-0.08	-0.04
L7J3T9		47.85	2.56	1.36	48.27	2.95	1.56
LHCLAY	X	43.71	-1.57	-0.84	49.01	3.70	1.96
LQUVXV		45.48	0.19	0.10	45.76	0.45	0.24
LRNL4A		43.30	-1.98	-1.05	42.74	-2.58	-1.37
LXPXY8		44.72	-0.57	-0.30	43.74	-1.58	-0.83
MVKRYR		47.36	2.07	1.10	45.45	0.13	0.07
MX4Q7U		44.70	-0.59	-0.31	43.60	-1.72	-0.91
N4QVM2		49.17	3.89	2.06	49.61	4.30	2.27

WebCode	Data Flag	Sample C15 Lab Mean	Sample C15 Diff from Grand Mean	Sample C15 CPV	Sample C16 Lab Mean	Sample C16 Diff from Grand Mean	Sample C16 CPV
NDVZDW		44.48	-0.81	-0.43	44.99	-0.33	-0.17
NZPUER		46.82	1.53	0.81	46.87	1.56	0.82
QCA7M8		42.80	-2.49	-1.32	44.20	-1.12	-0.59
RWYUPL		45.82	0.53	0.28	45.02	-0.30	-0.16
T4TAXQ		44.64	-0.65	-0.35	46.40	1.08	0.57
U2HU26		47.00	1.71	0.91	44.81	-0.50	-0.27
U6JV4M		46.56	1.28	0.68	45.23	-0.08	-0.04
UWTAXN	*	45.12	-0.16	-0.09	48.27	2.95	1.56
VXJV6K	X	48.43	3.15	1.67	41.10	-4.21	-2.23
VYVGUL		44.56	-0.73	-0.39	45.42	0.11	0.06
W6VFHG		45.11	-0.17	-0.09	46.70	1.39	0.73
WMCC7M		45.96	0.67	0.36	47.16	1.84	0.98
XQ7TWL		44.12	-1.16	-0.62	43.88	-1.43	-0.76

Summary Statistics

	Sample C15	Sample C16
Grand Means	45.287 MPa	45.316 MPa
Stnd Dev Btwn Labs	1.884 MPa	1.889 MPa

Statistics based on 44 of 48 reporting participants

Sample C15: ABS/PC & Sample C16: ABS/PC

Comments on Assigned Data Flags for Test #731

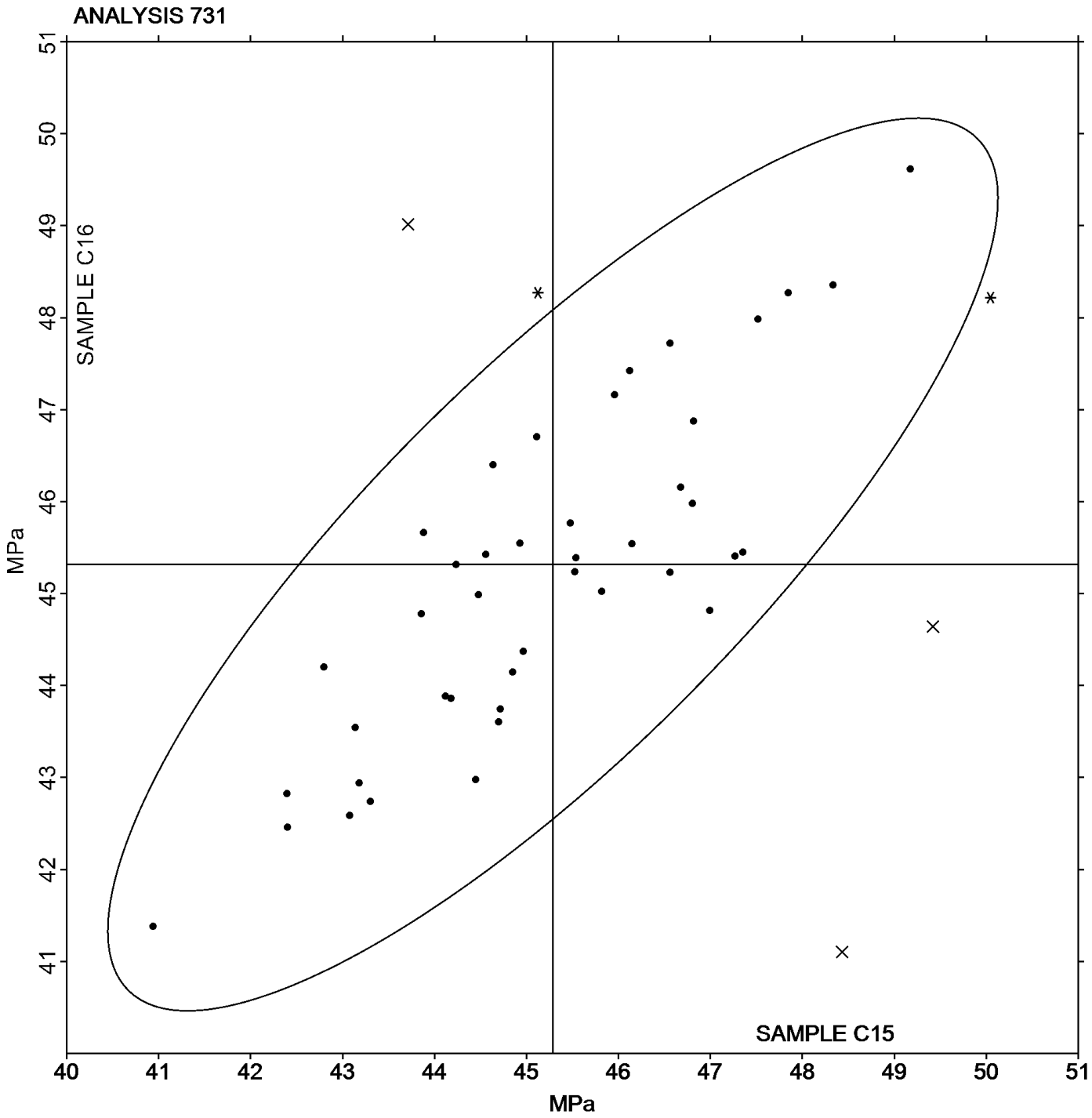
CYZKJG (X) - Inconsistent in testing between samples.

LHCLAY (X) - Inconsistent in testing between samples.

VXJV6K (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample C16.

94GTBB (X) - Data for sample C16 are high.

Grand Mean Sample C15: 45.287 MPa Grand Mean Sample C16: 45.316 MPa



WebCode	Data Flag	Sample C15 Lab Mean	Sample C15 Diff from Grand Mean	Sample C15 CPV	Sample C16 Lab Mean	Sample C16 Diff from Grand Mean	Sample C16 CPV
2GR4NR		4.298	-0.069	-0.34	4.300	-0.065	-0.32
37MHWJ		4.180	-0.187	-0.93	4.178	-0.187	-0.90
4A43GD		4.376	0.009	0.04	4.204	-0.161	-0.78
4G7CPR		4.460	0.093	0.46	4.480	0.115	0.55
4Y3EPG		4.266	-0.101	-0.50	4.188	-0.177	-0.86
6CH7HF		4.166	-0.201	-1.00	4.134	-0.231	-1.12
6DDNKG		4.070	-0.297	-1.48	4.082	-0.283	-1.37
7B8G2N		4.422	0.055	0.27	4.418	0.053	0.25
7F3BYP		4.194	-0.173	-0.86	4.242	-0.123	-0.60
7H9TWL		4.380	0.013	0.06	4.380	0.015	0.07
889H7Q		4.374	0.007	0.03	4.386	0.021	0.10
8DTHJH		4.284	-0.083	-0.41	4.270	-0.095	-0.46
94GTBB		4.294	-0.073	-0.36	4.288	-0.077	-0.37
9YLYDA		4.272	-0.095	-0.47	4.310	-0.055	-0.27
A8V3KK		4.230	-0.137	-0.68	4.184	-0.181	-0.88
BVHZYM	*	4.820	0.453	2.25	4.908	0.543	2.62
C8P6PF		3.974	-0.393	-1.96	4.069	-0.296	-1.43
C8Q3ZB		4.338	-0.029	-0.14	4.370	0.005	0.02
CLNAU7		4.550	0.183	0.91	4.588	0.223	1.08
CYZKJG		4.260	-0.107	-0.53	4.320	-0.045	-0.22
D4NJD3	*	4.828	0.461	2.30	4.972	0.607	2.93
DCDE47		4.474	0.107	0.53	4.546	0.180	0.87
DYUPDG		4.336	-0.031	-0.15	4.330	-0.035	-0.17
EME2V3	X	5.480	1.113	5.54	5.400	1.035	5.00
F8T9K2		4.342	-0.025	-0.12	4.396	0.031	0.15
FBC4L9		4.175	-0.192	-0.95	4.161	-0.204	-0.99
FPT9G8	*	4.280	-0.087	-0.43	4.500	0.135	0.65
FTD4HE	X	66.000	61.633	306.70	61.460	57.095	275.82
KGRBYA		4.344	-0.023	-0.11	4.338	-0.027	-0.13
KK7TE6		4.216	-0.151	-0.75	4.325	-0.040	-0.20
L7J3T9		4.512	0.145	0.72	4.452	0.087	0.42
LHCLAY		4.214	-0.153	-0.76	4.256	-0.109	-0.53
LQUVXV		4.518	0.151	0.75	4.364	-0.001	-0.01
LRNL4A		4.314	-0.053	-0.26	4.238	-0.127	-0.61
LXPXY8		4.292	-0.075	-0.37	4.280	-0.085	-0.41

Plastics Interlaboratory Testing Program

Analysis 732

Percent Strain at Yield

WebCode	Data Flag	Sample C15 Lab Mean	Sample C15 Diff from Grand Mean	Sample C15 CPV	Sample C16 Lab Mean	Sample C16 Diff from Grand Mean	Sample C16 CPV
MVKRYR		4.336	-0.031	-0.15	4.264	-0.101	-0.49
MX4Q7U		4.220	-0.147	-0.73	4.260	-0.105	-0.51
NDVZDW		4.296	-0.071	-0.35	4.248	-0.117	-0.57
NZPUER	*	4.984	0.617	3.07	4.968	0.603	2.91
QCA7M8		4.260	-0.107	-0.53	4.260	-0.105	-0.51
RWYUPL		4.500	0.133	0.66	4.520	0.155	0.75
T4TAXQ		4.382	0.015	0.07	4.396	0.031	0.15
U2HU26		4.324	-0.043	-0.21	4.268	-0.097	-0.47
UWTAXN		4.270	-0.097	-0.48	4.164	-0.201	-0.97
VXJV6K	*	4.934	0.567	2.82	4.838	0.473	2.28
VYVGUL		4.592	0.225	1.12	4.470	0.105	0.51
W6VFHG		4.256	-0.111	-0.55	4.220	-0.145	-0.70
WMCC7M		4.500	0.133	0.66	4.500	0.135	0.65
XQ7TWL		4.280	-0.087	-0.43	4.344	-0.021	-0.10
ZQLWGR		4.432	0.065	0.32	4.354	-0.011	-0.05

Summary Statistics

	Sample C15	Sample C16
Grand Means	4.3671 Percent	4.3652 Percent
Stnd Dev Btwn Labs	0.2010 Percent	0.2070 Percent

Statistics based on 48 of 50 reporting participants

Sample C15: ABS/PC & Sample C16: ABS/PC

Comments on Assigned Data Flags for Test #732

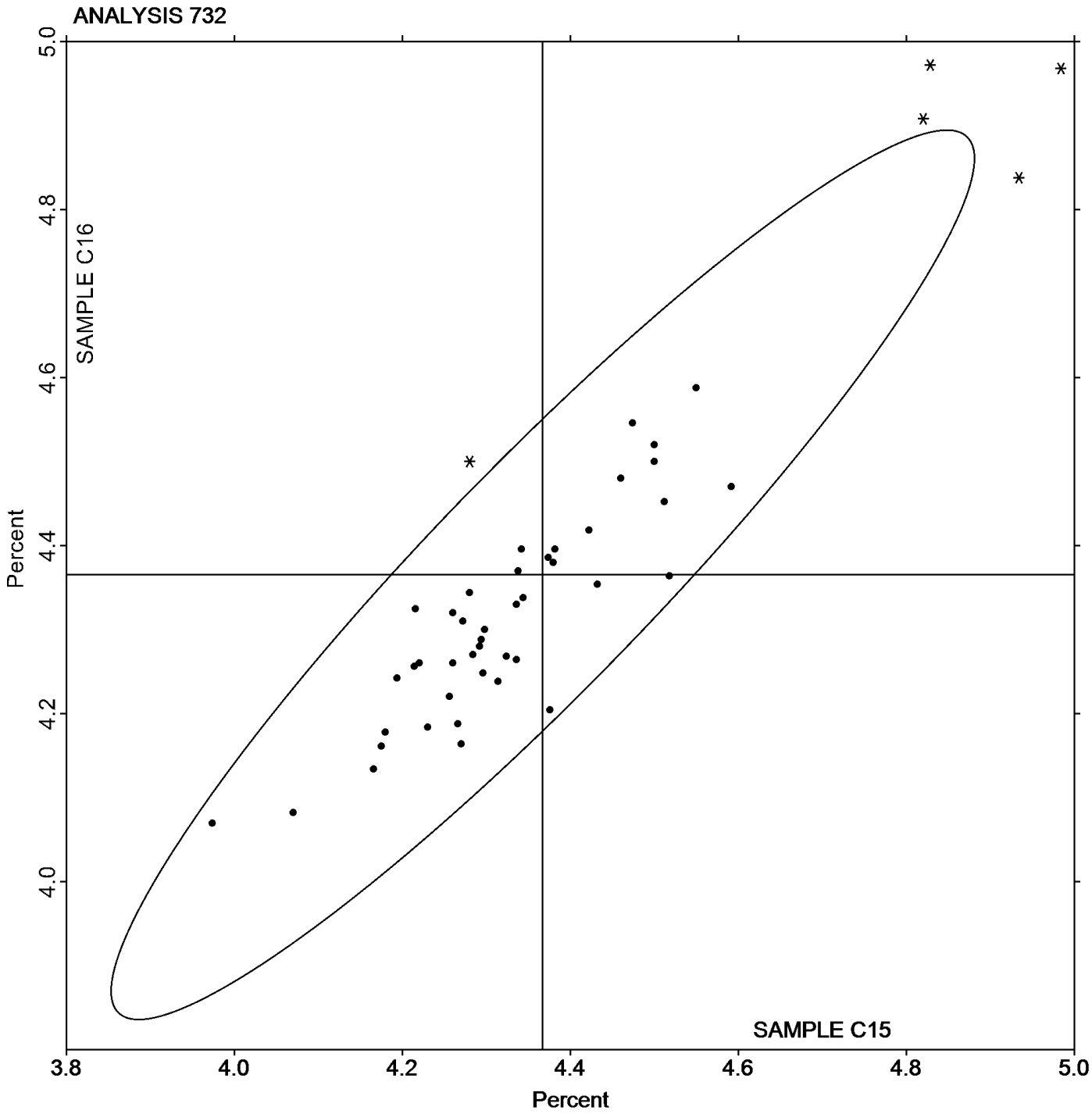
FTD4HE (X) - Extreme data.

EME2V3 (X) - Data for both samples are high. Possible Systematic Error.

Results by Methodology (as reported by laboratory)

Test Methodology	Sample C15 ABS/PC Group Mean	Sample C15 ABS/PC Btwn Lab STD	Sample C15 ABS/PC Diff from GM	Sample C16 ABS/PC Group Mean	Sample C16 ABS/PC Btwn Lab STD	Sample C16 ABS/PC Diff from GM	Labs Incl / Rpt
contact extensometer to measure elongation	4.3630	0.2049	-0.004	4.3640	0.2003	-0.001	37/39
crosshead deflection/movement	4.4519	0.2482	0.085	4.4685	0.2890	0.103	6/6
video extensometer	4.2855	0.0480	-0.082	4.2465	0.0855	-0.119	4/4

Grand Mean Sample C15: 4.3671 Percent Grand Mean Sample C16: 4.3652 Percent



WebCode	Data Flag	Sample C15 Lab Mean	Sample C15 Diff from Grand Mean	Sample C15 CPV	Sample C16 Lab Mean	Sample C16 Diff from Grand Mean	Sample C16 CPV
2GR4NR		2,299	21	0.22	2,321	48	0.58
37MHWJ		2,267	-11	-0.12	2,240	-33	-0.41
4A43GD		2,246	-33	-0.35	2,239	-34	-0.41
4G7CPR		2,318	40	0.42	2,318	45	0.54
4Y3EPG		2,251	-28	-0.30	2,245	-28	-0.34
6CH7HF		2,268	-11	-0.11	2,258	-15	-0.19
6DDNKG		2,242	-36	-0.39	2,252	-21	-0.26
7B8G2N		2,245	-34	-0.36	2,246	-27	-0.33
7F3BYP		2,341	62	0.67	2,353	80	0.97
7H9TWL		2,322	44	0.47	2,344	71	0.86
889H7Q		2,216	-62	-0.67	2,212	-61	-0.75
8DTHJH		2,493	215	2.30	2,437	164	1.99
94GTBB		2,082	-197	-2.11	2,090	-183	-2.22
9YLYDA		2,208	-70	-0.75	2,238	-35	-0.43
A8V3KK		2,214	-64	-0.69	2,200	-73	-0.89
BVHZYM		2,212	-66	-0.71	2,184	-90	-1.09
C8P6PF		2,272	-6	-0.07	2,276	3	0.04
C8Q3ZB		2,278	0	0.00	2,286	13	0.15
CLNAU7	*	2,124	-154	-1.65	2,088	-185	-2.25
CYZKJG		2,240	-38	-0.41	2,240	-33	-0.41
D4NJD3	X	1,919	-359	-3.85	1,820	-453	-5.51
DCDE47		2,372	94	1.00	2,354	81	0.98
DYUPDG	*	2,508	230	2.46	2,423	150	1.82
DZP6PD	X	2,188	-91	-0.97	2,289	16	0.20
EME2V3		2,124	-154	-1.65	2,112	-161	-1.96
F8T9K2		2,236	-42	-0.45	2,286	12	0.15
FBC4L9		2,239	-40	-0.42	2,240	-33	-0.40
FTD4HE		2,276	-2	-0.03	2,258	-15	-0.19
KGRBYA		2,122	-156	-1.68	2,168	-105	-1.28
KK7TE6	X	2,473	194	2.08	2,143	-130	-1.58
L7J3T9		2,468	190	2.03	2,469	196	2.38
LHCLAY		2,431	153	1.64	2,377	103	1.25
LQUVXV		2,257	-21	-0.23	2,286	12	0.15
LRNL4A		2,243	-35	-0.38	2,275	2	0.02
LXPXY8		2,219	-59	-0.63	2,256	-17	-0.21

WebCode	Data Flag	Sample C15 Lab Mean	Sample C15 Diff from Grand Mean	Sample C15 CPV	Sample C16 Lab Mean	Sample C16 Diff from Grand Mean	Sample C16 CPV
MVKRYR		2,402	123	1.32	2,403	130	1.58
MX4Q7U		2,263	-16	-0.17	2,234	-39	-0.48
NDVZDW		2,233	-45	-0.48	2,216	-57	-0.70
NZPUER		2,294	16	0.17	2,282	9	0.11
QCA7M8		2,236	-42	-0.45	2,272	-1	-0.01
RWYUPL		2,324	46	0.49	2,314	41	0.49
T4TAXQ		2,248	-31	-0.33	2,246	-27	-0.33
U2HU26		2,355	77	0.82	2,288	15	0.18
UWTAXN		2,317	39	0.41	2,298	24	0.30
VXJV6K	X	1,889	-390	-4.17	2,049	-225	-2.73
VYVGUL	X	2,064	-214	-2.30	2,008	-265	-3.23
W6VFHG		2,437	159	1.70	2,393	120	1.46
WMCC7M		2,190	-88	-0.95	2,214	-59	-0.72
XQ7TWL		2,266	-13	-0.14	2,245	-29	-0.35
ZQLWGR		2,328	50	0.54	2,322	49	0.59

Summary Statistics

	Sample C15	Sample C16
Grand Means	2,278.4 MPa	2,273.4 MPa
Stnd Dev Btwn Labs	93.3 MPa	82.2 MPa

Statistics based on 45 of 50 reporting participants

Sample C15: ABS/PC & Sample C16: ABS/PC

Comments on Assigned Data Flags for Test #734

KK7TE6 (X) - Inconsistent in testing between samples. Inconsistent within the determinations of both samples.

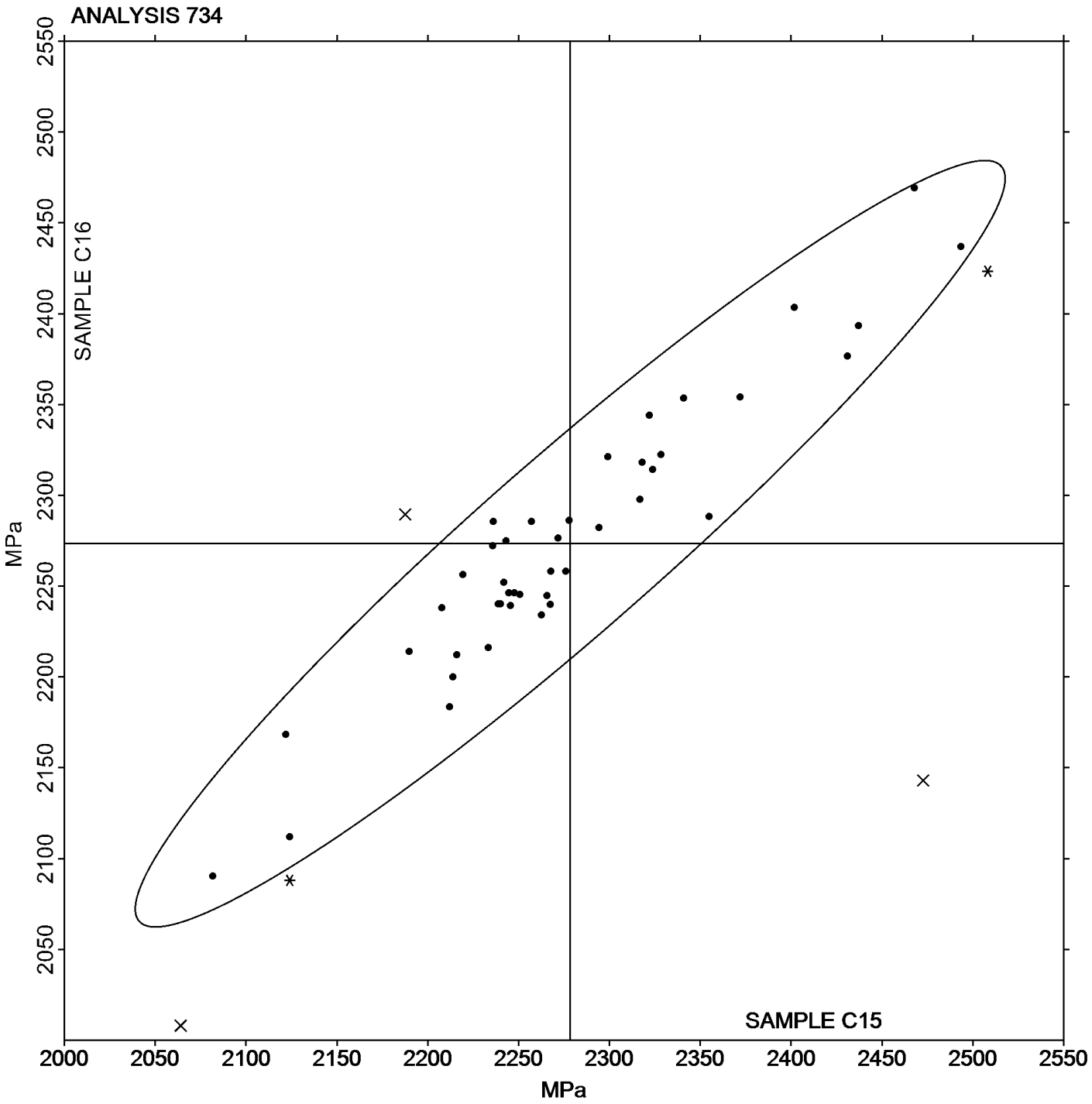
DZP6PD (X) - Inconsistent in testing between samples.

D4NJD3 (X) - Data for both samples are low. Inconsistent within the determinations of both samples.

VXJV6K (X) - Data for both samples are low. Inconsistent within the determinations of both samples.

VYVGUL (X) - Data for sample C16 are low. Inconsistent within the determinations of both samples.

Grand Mean Sample C15: 2,278.38 MPa Grand Mean Sample C16: 2,273.35 MPa



WebCode	Data Flag	Sample K15 Lab Mean	Sample K15 Diff from Grand Mean	Sample K15 CPV	Sample K16 Lab Mean	Sample K16 Diff from Grand Mean	Sample K16 CPV
37MHWJ		2,369	56	0.73	2,406	87	1.20
4A43GD		2,431	117	1.53	2,425	106	1.46
4G7CPR		2,264	-50	-0.66	2,269	-51	-0.70
4Y3EPG		2,319	5	0.06	2,329	10	0.14
6CH7HF		2,315	1	0.02	2,293	-27	-0.37
6DDNKG		2,230	-84	-1.10	2,248	-71	-0.98
7B8G2N		2,360	46	0.60	2,357	38	0.52
7F3BYP		2,284	-29	-0.38	2,304	-15	-0.20
7H9TWL		2,334	20	0.26	2,344	25	0.34
8DTHJH		2,284	-30	-0.40	2,270	-50	-0.69
9YLYDA	X	3	-2,311	-30.22	3	-2,316	-32.01
A8V3KK	*	2,259	-55	-0.72	2,323	3	0.05
C8P6PF		2,377	63	0.82	2,383	64	0.88
C8Q3ZB		2,326	12	0.16	2,322	3	0.04
CYZKJG		2,239	-75	-0.98	2,227	-92	-1.27
D4NJD3	*	2,526	212	2.77	2,491	172	2.37
DCDE47		2,235	-79	-1.03	2,254	-65	-0.90
DYUPDG		2,371	57	0.75	2,386	67	0.93
DZP6PD		2,305	-9	-0.12	2,349	30	0.41
EFZ9TJ		2,260	-54	-0.70	2,264	-55	-0.76
EME2V3	X	2,980	666	8.71	3,004	685	9.46
F8T9K2		2,272	-42	-0.55	2,281	-39	-0.53
FBC4L9		2,326	12	0.15	2,322	3	0.04
FLUXK8		2,278	-36	-0.47	2,276	-43	-0.60
FPT9G8		2,382	68	0.90	2,368	49	0.67
FTD4HE		2,430	116	1.52	2,439	120	1.66
KGRBYA		2,312	-2	-0.02	2,299	-20	-0.28
KK7TE6		2,370	57	0.74	2,365	46	0.63
L7J3T9		2,184	-130	-1.70	2,182	-137	-1.89
LHCLAY		2,379	65	0.85	2,367	48	0.66
LQUVXV		2,397	83	1.08	2,350	31	0.43
LRNL4A		2,342	28	0.37	2,369	50	0.69
MX4Q7U		2,361	47	0.62	2,357	38	0.53
NDVZDW		2,295	-18	-0.24	2,302	-17	-0.24
QCA7M8		2,141	-172	-2.25	2,180	-140	-1.93

WebCode	Data Flag	Sample K15 Lab Mean	Sample K15 Diff from Grand Mean	Sample K15 CPV	Sample K16 Lab Mean	Sample K16 Diff from Grand Mean	Sample K16 CPV
T4TAXQ		2,314	0	0.00	2,313	-6	-0.09
TBTVM6		2,399	85	1.11	2,416	97	1.34
U2HU26		2,297	-16	-0.21	2,284	-35	-0.49
UWTAXN	*	2,124	-190	-2.48	2,118	-201	-2.78
VXJV6K		2,307	-7	-0.09	2,334	15	0.21
W6VFHG		2,253	-61	-0.80	2,275	-44	-0.61
WMCC7M		2,302	-12	-0.15	2,298	-21	-0.29
ZQLWGR		2,315	1	0.01	2,349	30	0.41

Summary Statistics

	Sample K15	Sample K16
Grand Means	2,313.8 MPa	2,319.2 MPa
Stnd Dev Btwn Labs	76.5 MPa	72.4 MPa

Statistics based on 41 of 43 reporting participants

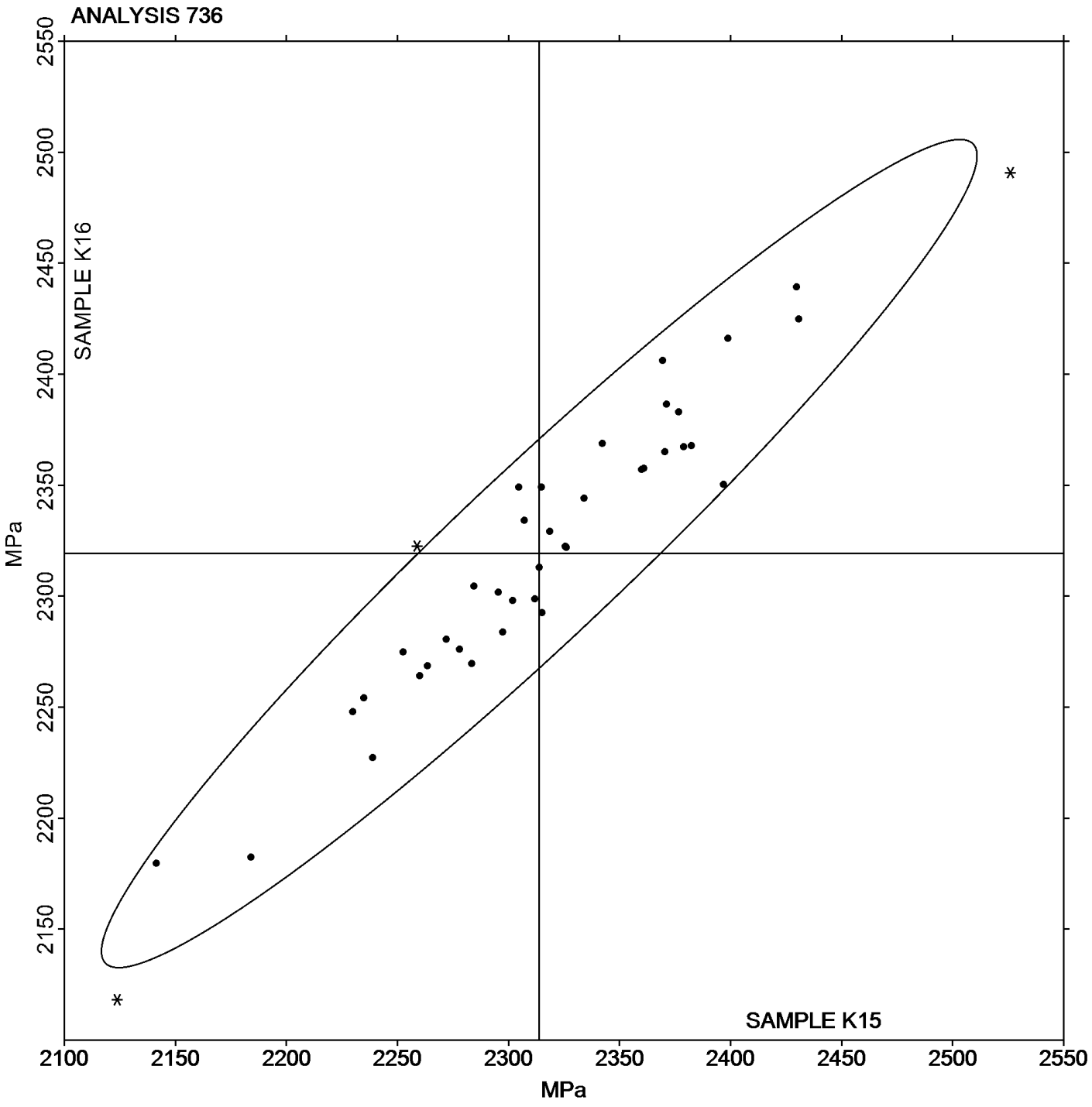
Sample K15: ABS/PC & Sample K16: ABS/PC

Comments on Assigned Data Flags for Test #736

9YLYDA (X) - Extreme data.

EME2V3 (X) - Data for both samples are high.

Grand Mean Sample K15: 2,313.84 MPa Grand Mean Sample K16: 2,319.20 MPa



WebCode	Data Flag	Sample K15 Lab Mean	Sample K15 Diff from Grand Mean	Sample K15 CPV	Sample K16 Lab Mean	Sample K16 Diff from Grand Mean	Sample K16 CPV
37MHWJ		68.44	-2.56	-0.84	69.06	-2.00	-0.68
4A43GD		74.35	3.34	1.10	74.21	3.15	1.07
4G7CPR		71.60	0.60	0.20	71.38	0.33	0.11
4Y3EPG		70.74	-0.26	-0.09	70.91	-0.15	-0.05
6DDNKG	*	71.88	0.88	0.29	72.61	1.55	0.53
7B8G2N		72.35	1.35	0.44	72.39	1.33	0.45
7F3BYP	*	70.23	-0.77	-0.25	71.00	-0.05	-0.02
8DTHJH		72.17	1.17	0.39	72.02	0.97	0.33
9YLYDA		77.06	6.06	1.99	77.06	6.00	2.04
A8V3KK		69.14	-1.86	-0.61	69.30	-1.76	-0.60
C8P6PF		71.83	0.83	0.27	72.12	1.07	0.36
C8Q3ZB		72.06	1.06	0.35	71.94	0.88	0.30
CYZKJG		71.68	0.68	0.22	71.64	0.58	0.20
D4NJD3		75.88	4.88	1.61	75.83	4.77	1.62
DCDE47		69.10	-1.91	-0.63	69.01	-2.05	-0.70
EME2V3	*	61.96	-9.04	-2.97	62.12	-8.94	-3.04
F8T9K2		67.55	-3.45	-1.13	67.45	-3.60	-1.23
FBC4L9		71.24	0.23	0.08	70.99	-0.06	-0.02
FPT9G8		63.95	-7.05	-2.32	64.43	-6.63	-2.26
FTD4HE		71.77	0.77	0.25	71.64	0.58	0.20
KGRBYA		71.36	0.36	0.12	71.12	0.06	0.02
KK7TE6	X	11.95	-59.05	-19.42	11.97	-59.09	-20.12
L7J3T9		70.05	-0.96	-0.31	70.07	-0.99	-0.34
LHCLAY		72.20	1.20	0.39	72.10	1.05	0.36
LQUVXV	X	74.48	3.47	1.14	72.92	1.86	0.63
LRNL4A	X	75.41	4.41	1.45	76.59	5.53	1.88
MX4Q7U		72.83	1.83	0.60	73.07	2.01	0.68
NDVZDW		71.66	0.66	0.22	71.58	0.52	0.18
QCA7M8		69.92	-1.08	-0.36	70.34	-0.72	-0.24
T4TAXQ		71.02	0.02	0.01	71.03	-0.03	-0.01
TBTVM6		75.99	4.99	1.64	75.59	4.53	1.54
U2HU26		70.34	-0.66	-0.22	70.48	-0.58	-0.20
UWTAXN		67.30	-3.70	-1.22	67.44	-3.62	-1.23
VXJV6K		71.71	0.71	0.23	71.46	0.40	0.14
W6VFHG		69.51	-1.49	-0.49	69.59	-1.47	-0.50

WebCode	Data Flag	Sample K15 Lab Mean	Sample K15 Diff from Grand Mean	Sample K15 CPV	Sample K16 Lab Mean	Sample K16 Diff from Grand Mean	Sample K16 CPV
WMCC7M		74.19	3.19	1.05	73.92	2.86	0.98

Summary Statistics

	Sample K15	Sample K16
Grand Means	71.002 MPa	71.058 MPa
Stnd Dev Btwn Labs	3.041 MPa	2.937 MPa

Statistics based on 33 of 36 reporting participants

Sample K15: ABS/PC & Sample K16: ABS/PC

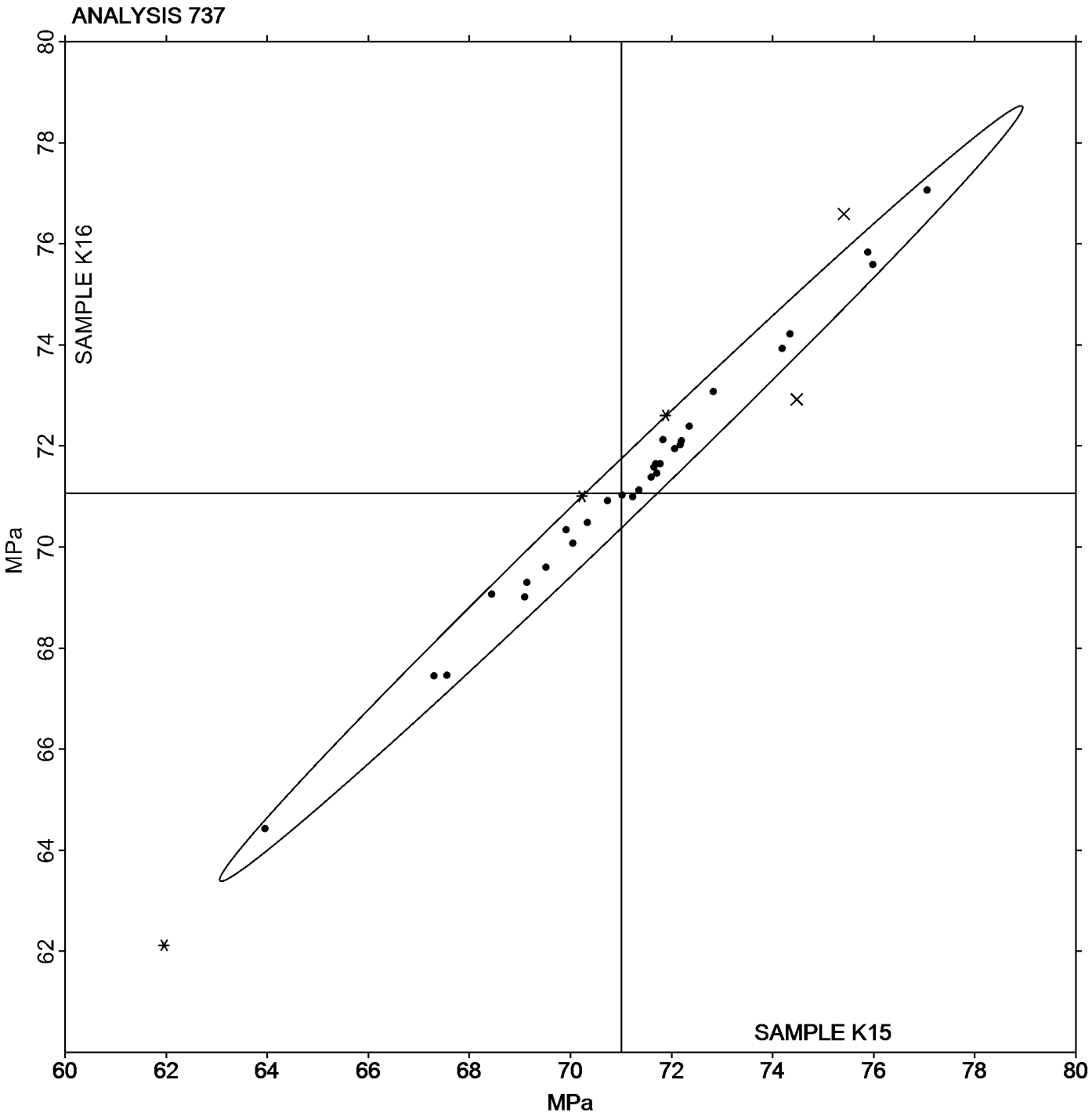
Comments on Assigned Data Flags for Test #737

LRNL4A (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample K15.

KK7TE6 (X) - Extreme data.

LQUVXV (X) - Inconsistent in testing between samples.

Grand Mean Sample K15: 71.002 MPa Grand Mean Sample K16: 71.058 MPa



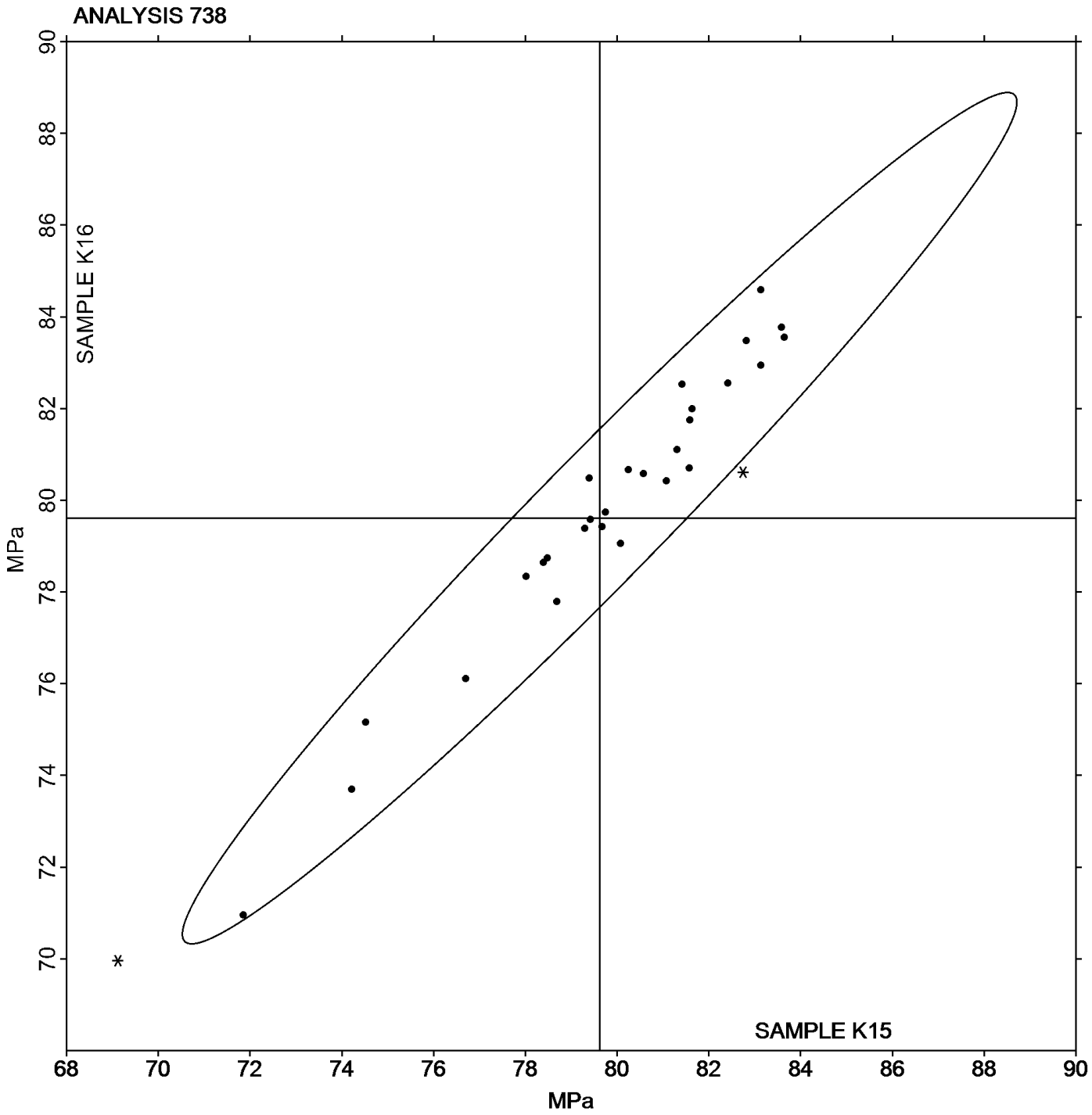
WebCode	Data Flag	Sample K15 Lab Mean	Sample K15 Diff from Grand Mean	Sample K15 CPV	Sample K16 Lab Mean	Sample K16 Diff from Grand Mean	Sample K16 CPV
37MHWJ		74.52	-5.10	-1.47	75.16	-4.45	-1.26
4A43GD		83.64	4.02	1.16	83.55	3.95	1.12
4Y3EPG		79.30	-0.32	-0.09	79.38	-0.23	-0.06
6CH7HF		81.08	1.46	0.42	80.42	0.81	0.23
6DDNKG		83.13	3.51	1.02	84.59	4.98	1.41
7B8G2N		81.64	2.02	0.59	81.99	2.38	0.67
7F3BYP		79.40	-0.22	-0.06	80.48	0.87	0.25
7H9TWL		80.58	0.96	0.28	80.58	0.97	0.28
8DTHJH		81.59	1.98	0.57	81.75	2.14	0.61
9YLYDA		82.42	2.80	0.81	82.55	2.94	0.83
A8V3KK		78.69	-0.93	-0.27	77.79	-1.82	-0.52
C8P6PF		79.42	-0.20	-0.06	79.58	-0.02	-0.01
C8Q3ZB		82.82	3.20	0.93	83.48	3.87	1.10
CYZKJG		81.31	1.69	0.49	81.10	1.49	0.42
D4NJD3		83.58	3.97	1.15	83.77	4.16	1.18
EME2V3		71.86	-7.76	-2.24	70.96	-8.65	-2.45
F8T9K2		74.22	-5.40	-1.56	73.70	-5.91	-1.68
FBC4L9		79.68	0.06	0.02	79.43	-0.18	-0.05
FPT9G8	*	69.12	-10.50	-3.04	69.96	-9.65	-2.73
KGRBYA		79.75	0.13	0.04	79.74	0.13	0.04
L7J3T9		80.25	0.63	0.18	80.67	1.06	0.30
LQUVXV	*	82.74	3.13	0.90	80.61	1.00	0.28
LRNL4A		81.42	1.81	0.52	82.53	2.92	0.83
QCA7M8		78.40	-1.22	-0.35	78.64	-0.97	-0.27
T4TAXQ		78.01	-1.60	-0.46	78.34	-1.27	-0.36
TBTVM6		76.70	-2.92	-0.84	76.11	-3.50	-0.99
VXJV6K		80.07	0.45	0.13	79.05	-0.56	-0.16
W6VFHG		78.48	-1.14	-0.33	78.74	-0.87	-0.25
WMCC7M		83.13	3.51	1.02	82.94	3.33	0.94
ZQLWGR		81.58	1.96	0.57	80.70	1.09	0.31

Summary Statistics	Sample K15	Sample K16
Grand Means	79.618 MPa	79.609 MPa
Stnd Dev Btwn Labs	3.457 MPa	3.528 MPa

Statistics based on 30 of 30 reporting participants

Sample K15: ABS/PC & Sample K16: ABS/PC

Grand Mean Sample K15: 79.618 MPa Grand Mean Sample K16: 79.609 MPa



WebCode	Data Flag	Sample X15 Lab Mean	Sample X15 Diff from Grand Mean	Sample X15 CPV	Sample X16 Lab Mean	Sample X16 Diff from Grand Mean	Sample X16 CPV	Instr Code
2E6DEM		6.49	-0.18	-1.04	6.57	-0.11	-0.65	TO
37MHWJ	X	12.68	6.02	34.80	13.44	6.75	39.48	TO
3HZHTC		6.80	0.13	0.78	6.65	-0.03	-0.20	TO
3JTBNV		6.79	0.13	0.75	6.76	0.08	0.46	TO
4A43GD		6.81	0.15	0.86	6.68	0.00	-0.01	CE
4AJ9UH		6.65	-0.01	-0.08	6.65	-0.04	-0.22	WZ
4C9U9Q		6.70	0.03	0.20	6.65	-0.03	-0.20	WZ
4NMKEN		6.69	0.03	0.15	6.84	0.16	0.91	GO
4Y3EPG		6.54	-0.13	-0.74	6.55	-0.13	-0.76	TY
67JA7B		6.59	-0.08	-0.46	6.57	-0.12	-0.69	TO
6DDNKG		6.37	-0.30	-1.74	6.49	-0.20	-1.16	WZ
7F3BYP	X	7.75	1.08	6.27	8.91	2.23	13.02	TO
7H9TWL	X	7.77	1.10	6.36	6.61	-0.07	-0.43	TO
8V87MG		6.86	0.19	1.12	6.77	0.09	0.52	TO
94GTBB		6.60	-0.07	-0.38	6.45	-0.23	-1.36	TO
9YLYDA		6.82	0.15	0.86	7.02	0.34	1.98	TO
A8V3KK		6.80	0.13	0.78	6.75	0.07	0.39	TO
AQQH2B		6.55	-0.12	-0.67	6.55	-0.13	-0.78	TO
B236P3		6.50	-0.17	-0.96	6.45	-0.23	-1.36	WZ
BNYWRK		6.85	0.18	1.05	6.87	0.19	1.09	TO
C8P6PF		6.52	-0.15	-0.87	6.68	0.00	-0.02	WZ
C8Q3ZB		6.60	-0.07	-0.38	6.85	0.17	0.97	GO
C9LNRG	X	8.78	2.12	12.23	8.66	1.97	11.53	GO
CYZKJG		6.69	0.02	0.14	6.78	0.09	0.54	TO
D4NJD3		6.54	-0.13	-0.75	6.61	-0.08	-0.46	TO
DCDE47		6.67	0.01	0.03	6.61	-0.07	-0.42	XX
DQXWWA		6.76	0.09	0.52	6.68	-0.01	-0.05	TO
DUG69F		6.85	0.19	1.09	6.85	0.16	0.95	TO
DYUPDG		6.56	-0.11	-0.64	6.56	-0.13	-0.75	TO
DZP6PD	X	7.45	0.78	4.54	7.20	0.52	3.02	TO
EFZ9TJ		6.30	-0.36	-2.09	6.31	-0.38	-2.21	XX
EME2V3		6.61	-0.06	-0.35	6.89	0.20	1.18	CS
FLUXK8		6.75	0.08	0.46	6.76	0.07	0.42	XX
FLXH9B		6.58	-0.09	-0.52	6.68	-0.01	-0.05	TO
FN6M3Y		6.45	-0.22	-1.25	6.48	-0.20	-1.19	TO

		Sample X15			Sample X16			
WebCode	Data Flag	Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV	Instr Code
FTD4HE	X	7.42	0.75	4.34	6.72	0.04	0.23	DY
GLFQ2C		6.60	-0.07	-0.38	6.75	0.07	0.39	TO
GPXT4B		6.90	0.23	1.36	6.80	0.12	0.68	CE
K8LDB7		7.00	0.33	1.93	6.90	0.22	1.27	TO
KAP9U9		6.60	-0.06	-0.37	6.64	-0.04	-0.25	TO
KGRBYA	X	7.09	0.42	2.43	7.29	0.61	3.55	TO
KV7JZD		6.55	-0.12	-0.67	6.55	-0.13	-0.78	KA
L7J3T9		6.40	-0.27	-1.56	6.34	-0.34	-2.01	WZ
LHCLAY		6.73	0.06	0.34	6.67	-0.02	-0.11	TO
LQUVXV	X	5.75	-0.92	-5.29	5.40	-1.28	-7.50	TO
LRNL4A		6.55	-0.12	-0.67	6.75	0.07	0.39	TO
MKHDTY	*	7.11	0.44	2.54	6.99	0.30	1.76	TO
MRZZPA		6.94	0.27	1.59	7.01	0.33	1.91	TO
MX4Q7U		6.81	0.14	0.81	6.70	0.02	0.10	DY
N4QVM2		6.65	-0.02	-0.09	6.65	-0.03	-0.20	TO
NCZK2Z	*	6.28	-0.39	-2.23	6.57	-0.11	-0.66	DY
NDVZDW		6.64	-0.03	-0.18	6.65	-0.03	-0.20	DY
NP9AVV		6.38	-0.29	-1.66	6.60	-0.08	-0.49	CE
NQEUHV		6.63	-0.03	-0.20	6.64	-0.04	-0.24	TO
NZ72LU	X	0.14	-6.52	-37.72	0.35	-6.34	-37.05	TM
NZPUER		6.95	0.28	1.62	6.90	0.22	1.29	TO
P2FFKN		6.48	-0.19	-1.10	6.47	-0.21	-1.24	TO
QCA7M8		6.96	0.30	1.71	7.05	0.37	2.16	CE
QYQJK2		6.53	-0.14	-0.78	6.53	-0.16	-0.93	TO
REXXE4		6.53	-0.14	-0.78	6.37	-0.31	-1.83	WZ
T4TAXQ		6.70	0.03	0.20	6.79	0.11	0.62	CE
TEQCZY		6.55	-0.12	-0.67	6.55	-0.13	-0.78	KA
TY266M		6.66	-0.01	-0.04	6.60	-0.08	-0.46	TO
U2HU26		6.67	0.01	0.04	6.49	-0.19	-1.12	TO
UMZ2DX		6.80	0.13	0.78	6.90	0.22	1.27	DY
VXJV6K		6.55	-0.12	-0.69	6.55	-0.13	-0.78	TO
W6VFHG	X	9.90	3.23	18.71	12.20	5.52	32.25	CE
WMCC7M		6.81	0.14	0.84	6.86	0.18	1.03	GO
WN9TJJ		6.71	0.04	0.25	6.61	-0.07	-0.41	TO
Y7HQER		6.88	0.21	1.21	6.98	0.30	1.73	TO

WebCode	Data Flag	Sample X15 Lab Mean	Sample X15 Diff from Grand Mean	Sample X15 CPV	Sample X16 Lab Mean	Sample X16 Diff from Grand Mean	Sample X16 CPV	Instr Code
YMQHJH		6.73	0.07	0.39	6.76	0.07	0.42	TO
ZQLWGR		6.77	0.10	0.60	6.79	0.10	0.59	TO

Summary Statistics

	Sample X15	Sample X16
Grand Means	6.665 grams/10 mins	6.683 grams/10 mins
Stnd Dev Btwn Labs	0.173 grams/10 mins	0.171 grams/10 mins

Statistics based on 62 of 72 reporting participants

Sample X15: HDPE & Sample X16: HDPE

Comments on Assigned Data Flags for Test #750

KGRBYA (X) - Data for sample X16 are high.

FTD4HE (X) - Data for sample X15 are high.

7F3BYP (X) - Data for both samples are high. Possible Systematic Error. Inconsistent within the determinations of sample X16.

7H9TWL (X) - Data for sample X15 are high.

C9LNRG (X) - Data for both samples are high.

DZP6PD (X) - Data for both samples are high. Possible Systematic Error.

37MHWJ (X) - Extreme data.

LQUVXV (X) - Data for both samples are low. Possible Systematic Error. Inconsistent within the determinations of sample X15.

NZ72LU (X) - Extreme data.

W6VFHG (X) - Extreme data.

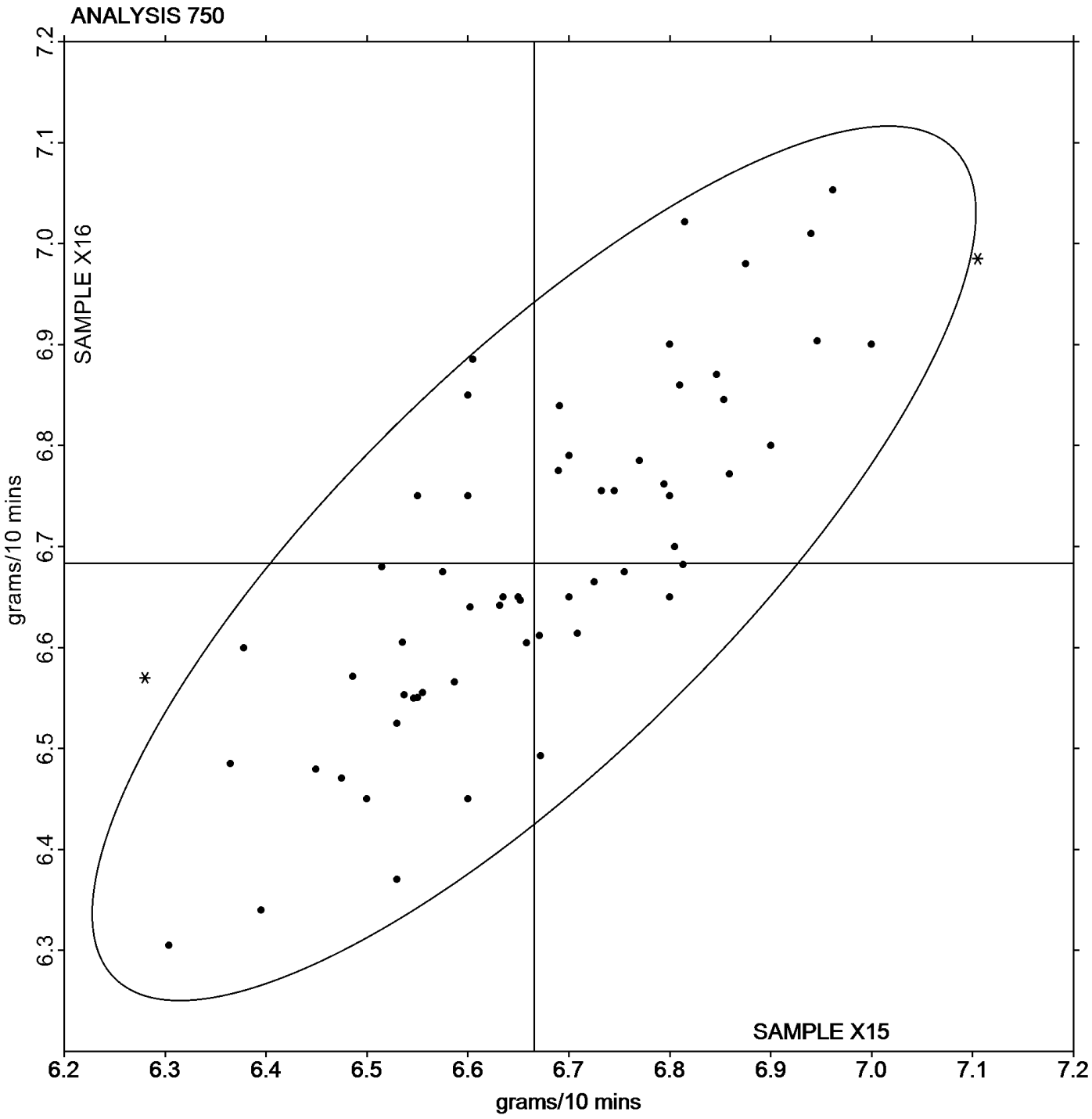
Results by Methodology (as reported by laboratory)

Test Methodology	Sample X15 HDPE Group Mean	Sample X15 HDPE Btwn Lab STD	Sample X15 HDPE Diff from GM	Sample X16 HDPE Group Mean	Sample X16 HDPE Btwn Lab STD	Sample X16 HDPE Diff from GM	Labs Incl / Rpt
Procedure A of ASTM D1238	6.691	0.184	0.025	6.722	0.166	0.039	27/34
Procedure B of ASTM D1238	6.651	0.193	-0.014	6.656	0.178	-0.027	18/19
Procedure A of ISO 1133	6.623	0.125	-0.042	6.618	0.130	-0.065	10/12
Procedure B of ISO 1133	6.666	0.146	0.001	6.697	0.219	0.013	7/7

Key to Instrument Codes Reported by Participants

CE	Ceast	CS	CSI
DY	Dynisco	GO	Gottfert
KA	Kayeness	TM	TMI
TO	Tinius Olsen	TY	Toyoseiki Seisakusho
WZ	Zwick	XX	Instrument manufacturer not specified by lab

Grand Mean Sample X15: 6.6655 grams/10 mins Grand Mean Sample X16: 6.6834 grams/10 mins



WebCode	Data Flag	Sample Y15 Lab Mean	Sample Y15 Diff from Grand Mean	Sample Y15 CPV	Sample Y16 Lab Mean	Sample Y16 Diff from Grand Mean	Sample Y16 CPV	Instr Code
37MHWJ		0.04477	0.02794	2.27	0.04693	0.02973	2.29	AZ
3HZHTC		0.00767	-0.00916	-0.75	0.00833	-0.00887	-0.68	XX
4A43GD		0.00967	-0.00716	-0.58	0.00900	-0.00820	-0.63	MU
4G7CPR		0.01467	-0.00216	-0.18	0.01300	-0.00420	-0.32	MU
6DDNKG		0.01810	0.00127	0.10	0.01697	-0.00024	-0.02	MU
6TRXKK	X	0.00587	-0.01096	-0.89	0.02383	0.00663	0.51	CT
7F3BYP		0.03950	0.02267	1.85	0.04500	0.02780	2.14	MU
7H9TWL		0.01200	-0.00483	-0.39	0.01100	-0.00620	-0.48	AZ
94GTBB	*	0.05467	0.03784	3.08	0.05633	0.03913	3.01	SB
AQQH2B		0.02067	0.00384	0.31	0.02100	0.00380	0.29	XX
CLNAU7		0.00833	-0.00850	-0.69	0.01033	-0.00687	-0.53	MU
DCDE47		0.00700	-0.00983	-0.80	0.00800	-0.00920	-0.71	XX
DYUPDG		0.01533	-0.00150	-0.12	0.01400	-0.00320	-0.25	XX
E2VAG8		0.02000	0.00317	0.26	0.02000	0.00280	0.22	MU
EME2V3	X	0.06333	0.04650	3.78	0.07000	0.05280	4.07	XX
F8T9K2		0.02467	0.00784	0.64	0.01967	0.00246	0.19	CT
FPT9G8		0.03667	0.01984	1.61	0.04000	0.02280	1.76	MU
KAP9U9		0.00757	-0.00926	-0.75	0.00690	-0.01030	-0.79	XX
L7J3T9		0.00487	-0.01196	-0.97	0.00287	-0.01434	-1.10	MU
LRNL4A	*	0.00633	-0.01050	-0.85	0.01267	-0.00454	-0.35	MU
MX4Q7U		0.01897	0.00214	0.17	0.01827	0.00106	0.08	BA
N4QVM2		0.01333	-0.00350	-0.28	0.01400	-0.00320	-0.25	BA
NCZK2Z		0.01167	-0.00516	-0.42	0.01200	-0.00520	-0.40	AZ
NDVZDW		0.01018	-0.00665	-0.54	0.00885	-0.00836	-0.64	MJ
P6GE4T		0.01467	-0.00216	-0.18	0.01300	-0.00420	-0.32	CS
PR6DYM		0.02900	0.01217	0.99	0.03050	0.01330	1.02	MU
QCA7M8		0.00807	-0.00876	-0.71	0.00683	-0.01037	-0.80	MK
T4TAXQ		0.02500	0.00817	0.67	0.02500	0.00780	0.60	MU
TEVR9T		0.01000	-0.00683	-0.56	0.01100	-0.00620	-0.48	MU
U2HU26		0.01610	-0.00073	-0.06	0.01257	-0.00464	-0.36	ML
UMZ2DX		0.00660	-0.01023	-0.83	0.01247	-0.00474	-0.36	AZ
VYVGUL		0.00650	-0.01033	-0.84	0.00695	-0.01025	-0.79	BA
YMQHJH		0.00863	-0.00820	-0.67	0.01040	-0.00680	-0.52	AZ
YNL2KJ		0.00733	-0.00950	-0.77	0.00667	-0.01054	-0.81	MU

Summary Statistics

	Sample Y15	Sample Y16
Grand Means	0.016829 Percent	0.017203 Percent
Stnd Dev Btwn Labs	0.012288 Percent	0.012987 Percent

Statistics based on 32 of 34 reporting participants

Sample Y15: HIPS & Sample Y16: HIPS

Comments on Assigned Data Flags for Test #755

6TRXKK (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample Y16.

EME2V3 (X) - Data for both samples are high. Possible Systematic Error. Inconsistent within the determinations of sample Y15.

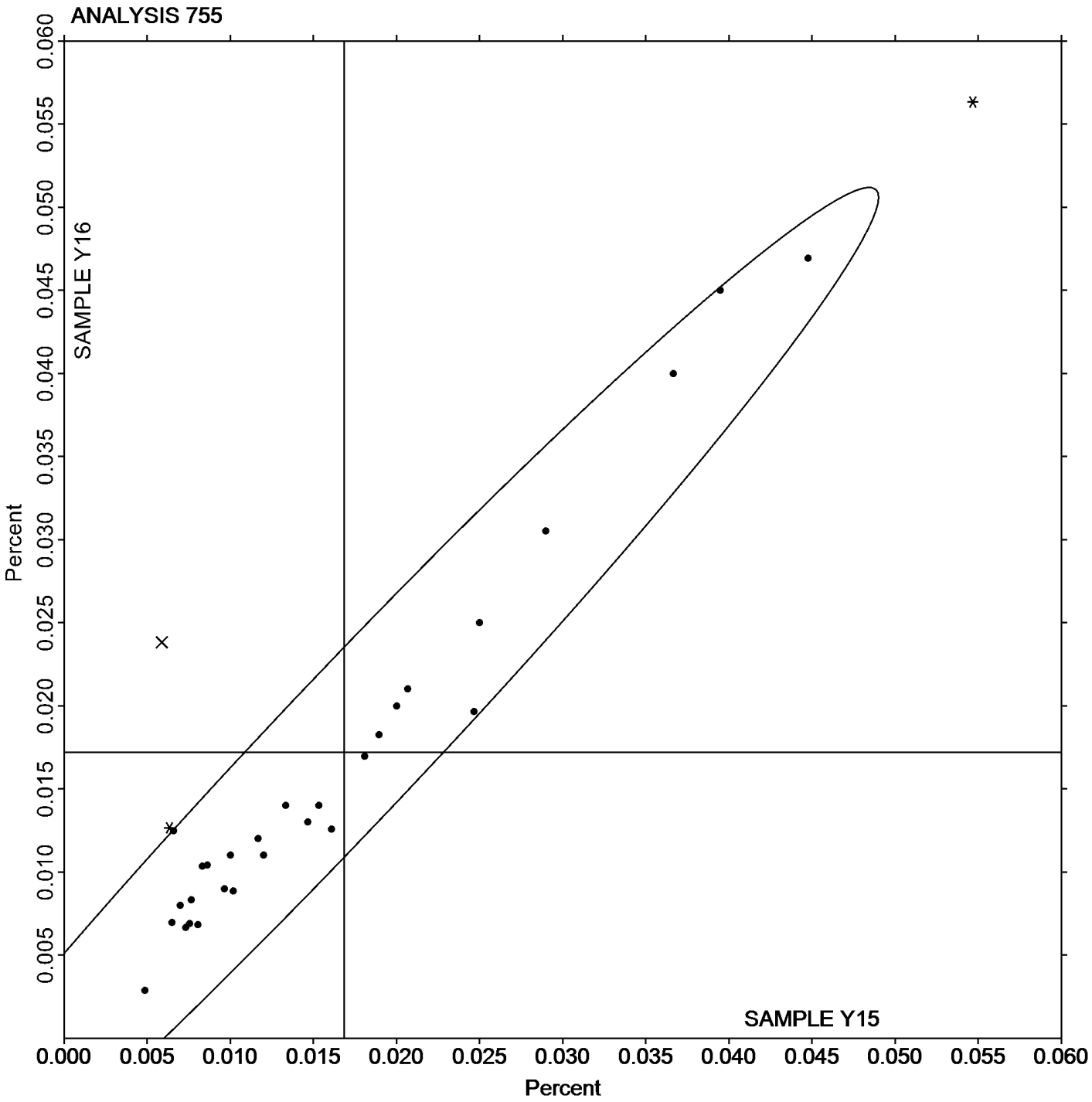
Results by Methodology (as reported by laboratory)

	Sample Y15 *HIPS*			Sample Y16 *HIPS*			
Test Methodology	Group Mean	Btwn Lab STD	Diff from GM	Group Mean	Btwn Lab STD	Diff from GM	Labs Incl / Rpt
ASTM D6869	0.011111	0.004707	-0.0057	0.011348	0.004018	-0.0059	9/9
ISO 15512 Method B	0.011425	0.006037	-0.0054	0.009917	0.006283	-0.0073	4/4
ASTM D6980	0.029860	0.013995	0.0130	0.030743	0.015626	0.0135	10/11
ASTM D7191	0.010180	0.003931	-0.0066	0.011773	0.002575	-0.0054	5/6

Key to Instrument Codes Reported by Participants

AZ	Arizona Instruments Moisture Analyzer	BA	Brabender Aquatrac
CS	Cosa Instruments	CT	Computrac Moisture Analyzer
MJ	Mitsubishi KF Analyzer Series	MK	Mitsubishi KF Analyzer CA
ML	Metrohm Coulometer	MU	Mettler Toledo
SB	Sartorius Mark 3	XX	Instrument manufacturer not specified by lab

Grand Mean Sample Y15: 0.01683 Percent Grand Mean Sample Y16: 0.01720 Percent



WebCode	Data Flag	Sample L15 Lab Mean	Sample L15 Diff from Grand Mean	Sample L15 CPV	Sample L16 Lab Mean	Sample L16 Diff from Grand Mean	Sample L16 CPV
3HZHTC	X	20.495	-0.300	-4.94	20.580	-0.228	-4.68
3JTBNV		20.794	-0.001	-0.01	20.808	-0.001	-0.01
4A43GD	*	20.951	0.156	2.57	20.910	0.102	2.10
4NMKEN		20.810	0.015	0.25	20.760	-0.048	-0.99
6DDNKG		20.781	-0.014	-0.23	20.781	-0.027	-0.56
7F3BYP		20.695	-0.100	-1.64	20.750	-0.058	-1.19
7H9TWL		20.788	-0.007	-0.12	20.861	0.052	1.07
89FZ6L		20.825	0.030	0.50	20.910	0.102	2.09
94GTBB	X	20.890	0.095	1.57	20.705	-0.103	-2.12
9YLYDA	X	20.950	0.155	2.56	20.430	-0.378	-7.76
AQQH2B		20.770	-0.025	-0.41	20.800	-0.008	-0.17
AY66BE		20.845	0.050	0.83	20.805	-0.003	-0.06
B236P3		20.770	-0.025	-0.41	20.790	-0.018	-0.37
BF4UQ9		20.728	-0.067	-1.10	20.780	-0.028	-0.58
BVHZYM		20.800	0.005	0.09	20.850	0.042	0.86
C8P6PF		20.675	-0.120	-1.97	20.800	-0.008	-0.17
CLNAU7		20.830	0.035	0.58	20.810	0.002	0.04
CYZKJG		20.765	-0.030	-0.49	20.795	-0.013	-0.27
D4NJD3		20.745	-0.050	-0.82	20.810	0.002	0.04
DCDE47		20.775	-0.020	-0.33	20.810	0.002	0.04
DJDR9F		20.816	0.021	0.35	20.830	0.022	0.46
DUG69F		20.805	0.010	0.17	20.815	0.007	0.14
DYUPDG		20.900	0.105	1.73	20.900	0.092	1.89
DZP6PD	X	20.825	0.030	0.50	20.625	-0.183	-3.76
EFZ9TJ		20.805	0.010	0.17	20.829	0.020	0.42
EME2V3		20.640	-0.155	-2.55	20.735	-0.073	-1.50
F7LTBA		20.790	-0.005	-0.09	20.809	0.001	0.02
F8T9K2		20.830	0.035	0.58	20.810	0.002	0.04
FLUXK8	X	20.650	-0.145	-2.38	20.225	-0.583	-11.97
FPT9G8		20.785	-0.010	-0.16	20.815	0.007	0.14
FQTC7C		20.805	0.010	0.17	20.805	-0.003	-0.06
K8LDB7		20.760	-0.035	-0.57	20.775	-0.033	-0.68
KAP9U9		20.790	-0.005	-0.09	20.774	-0.035	-0.71
KGRBYA		20.785	-0.010	-0.16	20.750	-0.058	-1.19
L7J3T9	*	20.900	0.105	1.73	20.765	-0.043	-0.89

WebCode	Data Flag	Sample L15 Lab Mean	Sample L15 Diff from Grand Mean	Sample L15 CPV	Sample L16 Lab Mean	Sample L16 Diff from Grand Mean	Sample L16 CPV
LHCLAY		20.840	0.045	0.74	20.830	0.022	0.45
LQUVXV	X	20.015	-0.780	-12.84	20.165	-0.643	-13.20
LRNL4A	X	20.805	0.010	0.17	20.020	-0.788	-16.17
MKHDTY		20.830	0.035	0.58	20.810	0.002	0.04
MX4Q7U		20.745	-0.050	-0.82	20.815	0.007	0.14
NDVZDW		20.820	0.025	0.41	20.815	0.007	0.14
P6GE4T	*	20.930	0.135	2.23	20.935	0.127	2.60
QCA7M8	X	20.550	-0.245	-4.03	20.900	0.092	1.89
T4TAXQ		20.822	0.027	0.44	20.848	0.039	0.81
U2HU26		20.780	-0.015	-0.24	20.815	0.007	0.14
UWTAXN		20.685	-0.110	-1.81	20.685	-0.123	-2.53
VXJV6K		20.799	0.004	0.07	20.834	0.025	0.52
WMCC7M		20.810	0.015	0.25	20.810	0.002	0.04
XU72ZW	X	20.550	-0.245	-4.03	20.640	-0.168	-3.45
YNL2KJ		20.790	-0.005	-0.08	20.725	-0.083	-1.71
ZQLWGR		20.775	-0.020	-0.33	20.780	-0.028	-0.58

Summary Statistics

	Sample L15	Sample L16
Grand Means	20.7948 Percent	20.8081 Percent
Stnd Dev Btwn Labs	0.0607 Percent	0.0487 Percent

Statistics based on 42 of 51 reporting participants

Sample L15: PP & Sample L16: PP

Comments on Assigned Data Flags for Test #757

QCA7M8 (X) - Data for sample L15 are low. Inconsistent within the determinations of sample L15.

XU72ZW (X) - Data for both samples are low.

LRNL4A (X) - Data for sample L16 are low. Inconsistent within the determinations of sample L16.

DZP6PD (X) - Data for sample L16 are low. Inconsistent within the determinations of sample L16.

FLUXK8 (X) - Data for sample L16 are low.

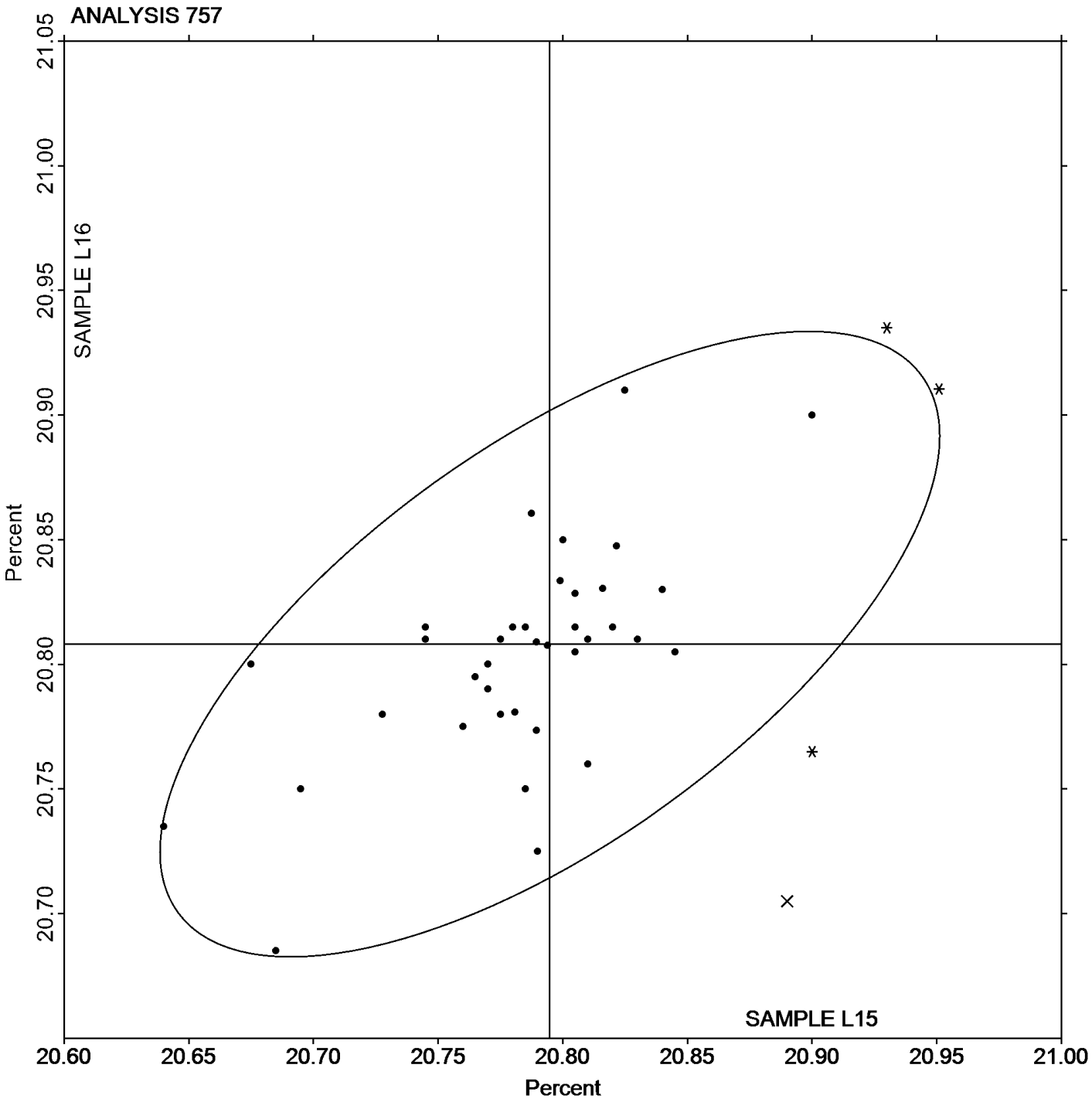
LQUVXV (X) - Data for both samples are low. Inconsistent within the determinations of sample L15.

3HZHTC (X) - Data for both samples are low. Inconsistent within the determinations of sample L16.

9YLYDA (X) - Data for sample L16 are low.

94GTBB (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample L16.

Grand Mean Sample L15: 20.795 Percent Grand Mean Sample L16: 20.808 Percent



WebCode	Data Flag	Sample A15 Lab Mean	Sample A15 Diff from Grand Mean	Sample A15 CPV	Sample A16 Lab Mean	Sample A16 Diff from Grand Mean	Sample A16 CPV	Instr Code
3FFQJV		71.12	1.91	0.99	70.67	1.57	0.77	TA
3JFN7G		70.15	0.95	0.49	68.00	-1.10	-0.54	TA
4A43GD		65.53	-3.67	-1.90	65.46	-3.64	-1.78	TA
8DTHJH		70.83	1.62	0.84	70.79	1.68	0.82	XX
94GTBB		70.53	1.32	0.69	70.56	1.45	0.71	TA
C8P6PF		65.94	-3.27	-1.69	66.17	-2.93	-1.43	TA
C8Q3ZB		70.02	0.81	0.42	70.45	1.34	0.66	TA
GTVAG6		70.48	1.27	0.66	69.92	0.82	0.40	TA
KV7JZD		69.97	0.77	0.40	70.19	1.09	0.53	XX
MKHDTY		69.41	0.20	0.11	71.28	2.17	1.06	NZ
NZPUER		70.08	0.87	0.45	70.16	1.06	0.52	TA
T4TAXQ		66.31	-2.90	-1.50	65.64	-3.46	-1.69	NZ
U2HU26		66.41	-2.80	-1.45	66.24	-2.86	-1.40	TA
U3BR8Q		70.14	0.93	0.48	70.33	1.23	0.60	TA
UWTAXN		70.25	1.05	0.54	70.08	0.98	0.48	TA
X8YDQN		70.12	0.92	0.48	69.70	0.60	0.29	TA

Summary Statistics

	Sample A15	Sample A16
Grand Means	69.202 Percent	69.101 Percent
Stnd Dev Btwn Labs	1.929 Percent	2.049 Percent

Statistics based on 16 of 16 reporting participants

Sample A15: PBT & Sample A16: PBT

Results by Methodology (as reported by laboratory)

Test Methodology	Sample A15 PBT Group Mean	Sample A15 PBT Btwn Lab STD	Sample A15 PBT Diff from GM	Sample A16 PBT Group Mean	Sample A16 PBT Btwn Lab STD	Sample A16 PBT Diff from GM	Labs Incl / Rpt
ASTM D3850	69.113	1.942	-0.09	69.084	2.059	-0.02	9/9
ISO 11358	69.065	2.136	-0.14	68.846	2.273	-0.26	6/6

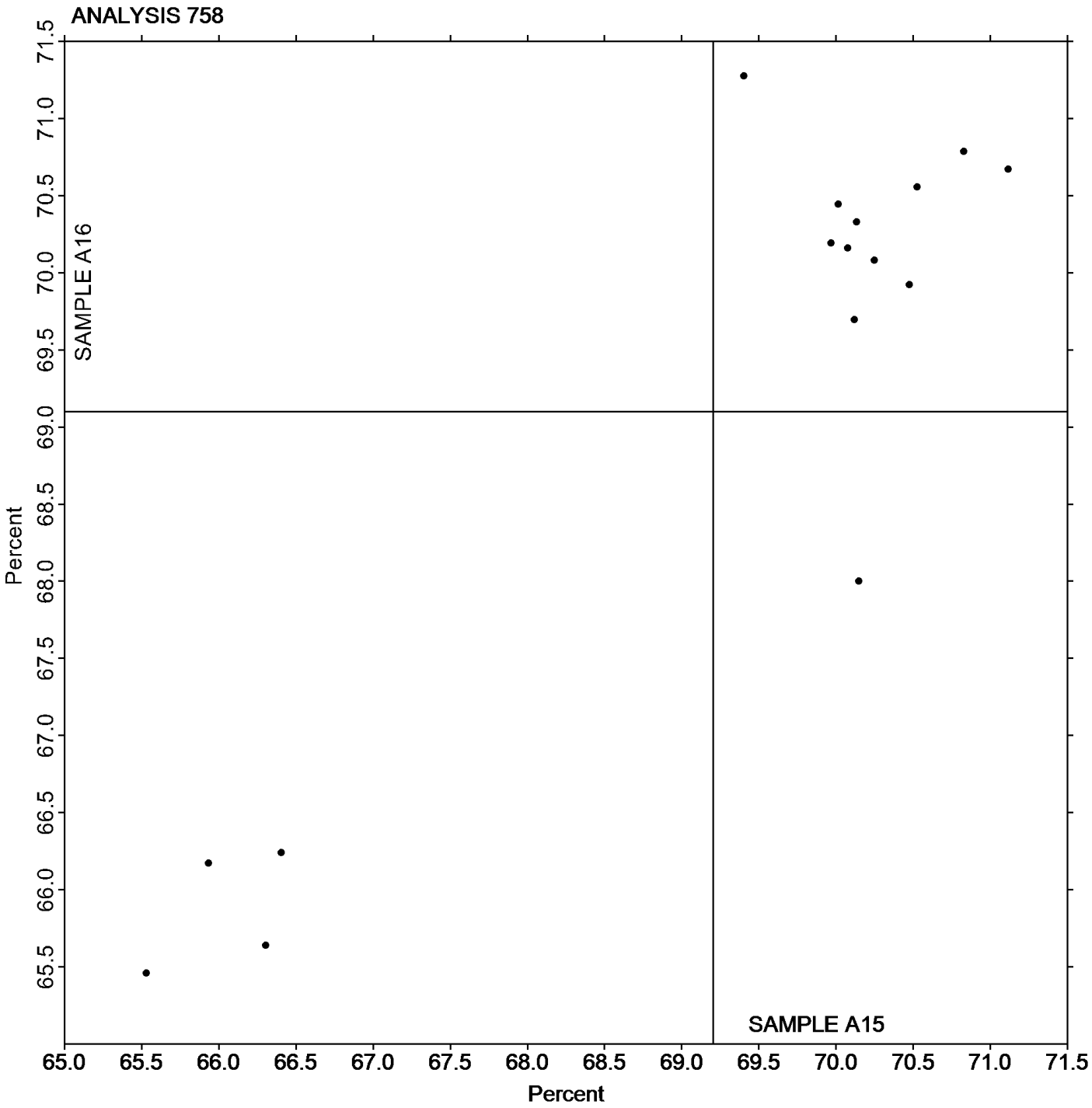
Key to Instrument Codes Reported by Participants

NZ Netzsch Instruments

TA TA Instruments

XX Instrument manufacturer not specified by lab

Grand Mean Sample A15: 69.202 Percent Grand Mean Sample A16: 69.101 Percent



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 W15 Lab Mean	Sample W15 Diff from Grand Mean	Sample W15 CPV	Sample W16 Lab Mean	Sample W16 Diff from Grand Mean	Sample W16 CPV	Instr Code
3FFQJV		110.43	1.78	0.41	111.07	2.28	0.52	TA
3JFN7G		110.53	1.88	0.43	110.60	1.81	0.42	TA
6DDNKG		104.58	-4.07	-0.93	104.07	-4.72	-1.08	TA
7H9TWL		109.57	0.92	0.21	109.63	0.85	0.19	TA
8DTHJH		104.44	-4.21	-0.96	104.44	-4.34	-1.00	XX
94GTBB		103.33	-5.32	-1.21	103.60	-5.19	-1.19	TA
9YLYDA		101.89	-6.76	-1.54	101.46	-7.33	-1.68	PE
AQQH2B		108.40	-0.25	-0.06	107.60	-1.19	-0.27	NZ
AY66BE		110.23	1.58	0.36	108.83	0.05	0.01	TA
C8P6PF		104.80	-3.85	-0.88	104.90	-3.89	-0.89	TA
C8Q3ZB		109.77	1.12	0.25	111.90	3.11	0.71	TA
DCDE47		103.83	-4.82	-1.10	104.21	-4.58	-1.05	TA
EFZ9TJ		115.83	7.18	1.64	115.93	7.14	1.64	TA
FLUXK8		111.92	3.27	0.75	112.24	3.45	0.79	TA
FTD4HE		101.84	-6.81	-1.55	102.06	-6.73	-1.54	TA
JRV7HE		108.49	-0.16	-0.04	109.40	0.61	0.14	PE
KV7JZD		107.73	-0.92	-0.21	108.90	0.11	0.03	XX
MKHDTY		112.77	4.12	0.94	111.60	2.81	0.65	NZ
NDVZDW		112.27	3.62	0.82	112.00	3.21	0.74	TA
NU6RF3		112.82	4.17	0.95	112.48	3.69	0.85	MT
NZPUER		110.75	2.10	0.48	112.13	3.35	0.77	TA
T4TAXQ		106.85	-1.80	-0.41	107.51	-1.27	-0.29	MT
U3BR8Q		104.17	-4.48	-1.02	104.76	-4.03	-0.93	TA
UWTAXN		109.44	0.79	0.18	109.23	0.45	0.10	TA
YMQHJH		119.57	10.92	2.49	119.15	10.36	2.38	TA

Summary Statistics

	Sample W15	Sample W16
Grand Means	108.651 Degrees Celsius	108.788 Degrees Celsius
Stnd Dev Btwn Labs	4.388 Degrees Celsius	4.355 Degrees Celsius

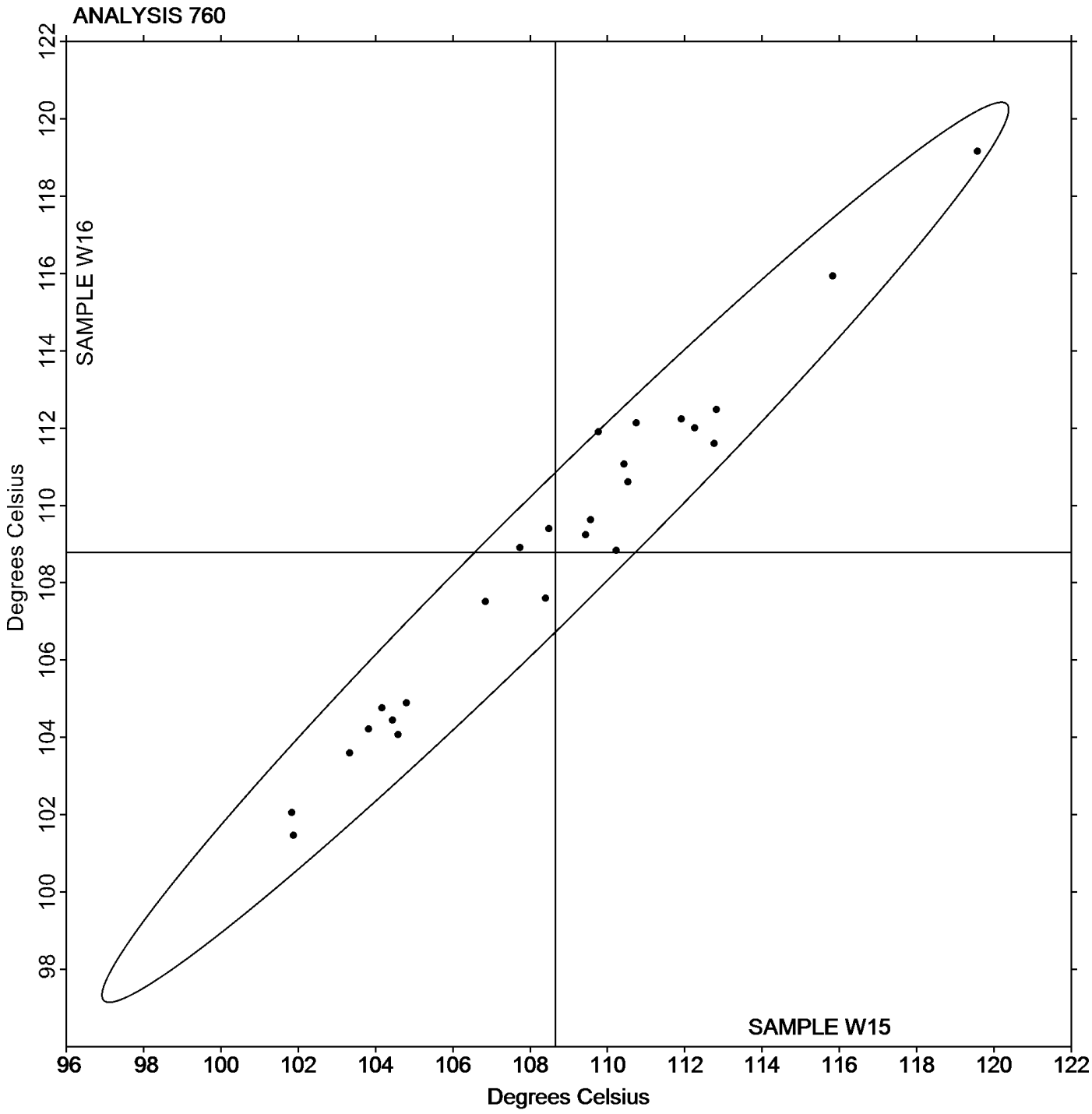
Statistics based on 25 of 25 reporting participants

Sample W15: PP & Sample W16: PP

Key to Instrument Codes Reported by Participants

MT	Mettler Toledo Instruments	NZ	Netzsch Instruments
PE	Perkins Elmer Instruments	TA	TA Instruments
XX	Instrument manufacturer not specified by lab		

Grand Mean Sample W15: 108.65 Degrees Celsius Grand Mean Sample W16: 108.79 Degrees Celsius



WebCode	Data Flag	Sample W15 Lab Mean	Sample W15 Diff from Grand Mean	Sample W15 CPV	Sample W16 Lab Mean	Sample W16 Diff from Grand Mean	Sample W16 CPV	Instr Code
3FFQJV		165.03	-0.25	-0.12	165.87	0.65	0.30	TA
3JFN7G		169.17	3.88	1.87	169.33	4.11	1.90	TA
3JTBNV		164.11	-1.17	-0.57	164.06	-1.16	-0.54	TA
6DDNKG		163.17	-2.11	-1.02	161.81	-3.41	-1.58	TA
7H9TWL		169.23	3.95	1.90	168.40	3.18	1.47	TA
8DTHJH		162.67	-2.62	-1.26	163.33	-1.89	-0.87	XX
94GTBB		165.80	0.51	0.25	163.93	-1.29	-0.59	TA
9YLYDA		161.40	-3.88	-1.87	161.40	-3.82	-1.77	PE
AQQH2B		169.03	3.75	1.80	168.77	3.55	1.64	NZ
AY66BE		165.47	0.18	0.09	167.10	1.88	0.87	TA
B7ZKJJ		164.47	-0.81	-0.39	164.70	-0.52	-0.24	SH
C8P6PF		164.41	-0.87	-0.42	164.28	-0.94	-0.44	TA
C8Q3ZB	X	161.43	-3.85	-1.86	164.70	-0.52	-0.24	TA
DCDE47		164.81	-0.47	-0.23	164.54	-0.68	-0.31	TA
DZP6PD		166.19	0.90	0.43	166.78	1.56	0.72	MT
EFZ9TJ		164.16	-1.13	-0.54	164.15	-1.07	-0.49	XX
FLUXK8		163.02	-2.27	-1.09	162.85	-2.37	-1.09	XX
FTD4HE		168.48	3.19	1.53	167.85	2.63	1.22	TA
JRV7HE		166.10	0.82	0.39	166.30	1.08	0.50	PE
KV7JZD		167.40	2.11	1.02	166.40	1.18	0.55	XX
MKHDTY		166.37	1.08	0.52	166.47	1.25	0.58	NZ
N4QVM2		162.70	-2.59	-1.25	162.17	-3.05	-1.41	TA
NDVZDW		163.77	-1.52	-0.73	163.83	-1.39	-0.64	TA
NU6RF3		165.21	-0.08	-0.04	165.28	0.06	0.03	MT
NZPUER		164.86	-0.43	-0.21	164.50	-0.72	-0.33	TA
QCA7M8		166.11	0.82	0.40	165.27	0.05	0.02	TA
T4TAXQ		166.24	0.95	0.46	167.36	2.14	0.99	MT
U2HU26		167.22	1.94	0.93	168.16	2.94	1.36	TA
U3BR8Q		162.44	-2.84	-1.37	162.99	-2.23	-1.03	TA
UWTAXN		163.39	-1.90	-0.91	162.61	-2.61	-1.21	TA
YMQHJH		166.20	0.92	0.44	166.07	0.85	0.39	TA

Summary Statistics	Sample W15	Sample W16
Grand Means	165.288 Degrees Celsius	165.219 Degrees Celsius
Stnd Dev Btwn Labs	2.078 Degrees Celsius	2.163 Degrees Celsius

Statistics based on 30 of 31 reporting participants

Sample W15: PP & Sample W16: PP

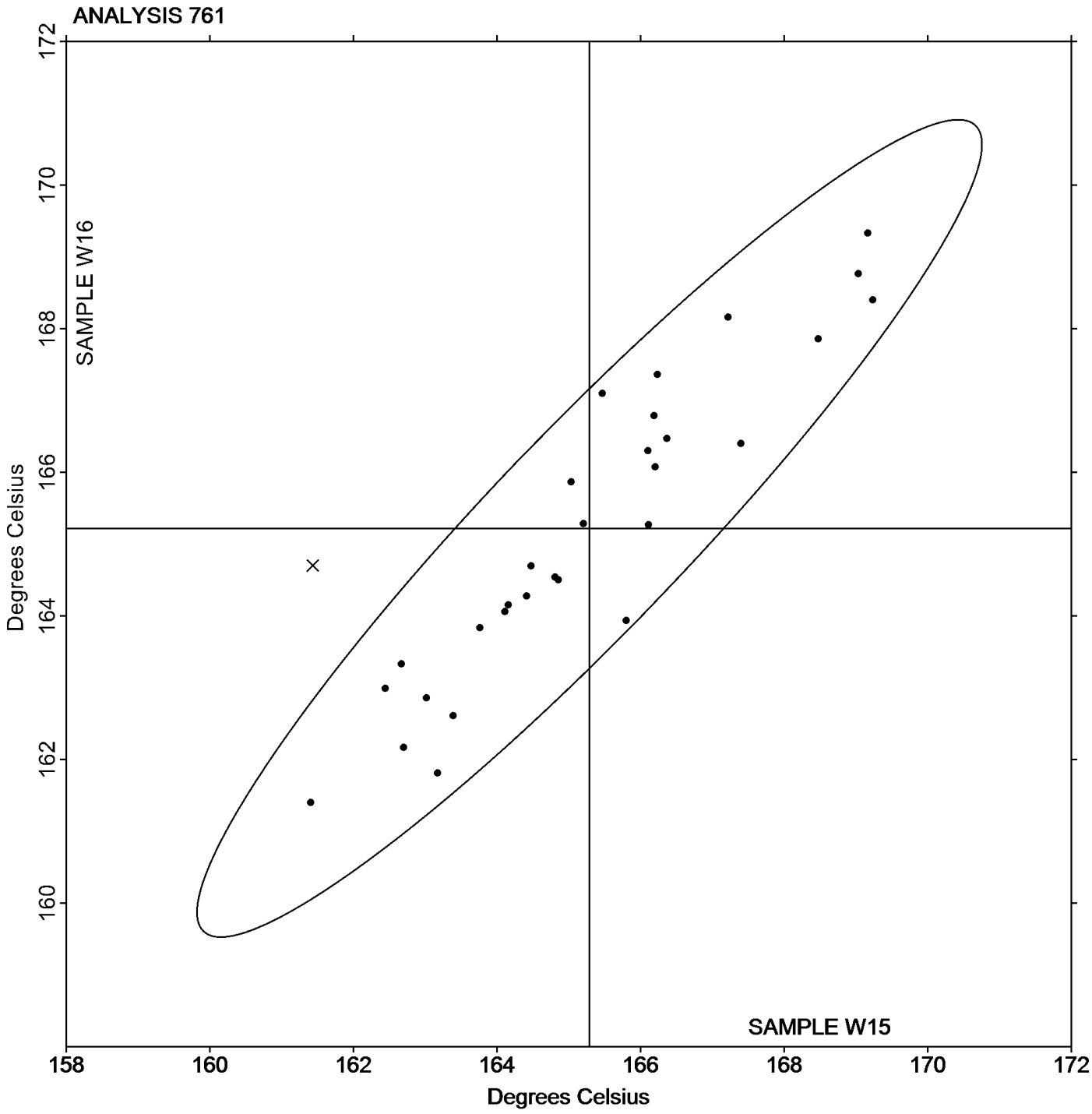
Comments on Assigned Data Flags for Test #761

C8Q3ZB (X) - Inconsistent in testing between samples.

Key to Instrument Codes Reported by Participants

MT	Mettler Toledo Instruments	NZ	Netzsch Instruments
PE	Perkins Elmer Instruments	SH	Shimadzu
TA	TA Instruments	XX	Instrument manufacturer not specified by lab

Grand Mean Sample W15: 165.29 Degrees Celsius Grand Mean Sample W16: 165.22 Degrees Celsius



WebCode	Data Flag	Sample W15 Lab Mean	Sample W15 Diff from Grand Mean	Sample W15 CPV	Sample W16 Lab Mean	Sample W16 Diff from Grand Mean	Sample W16 CPV	Instr Code
3FFQJV		94.63	-1.60	-0.23	95.37	-1.37	-0.22	TA
3JFN7G		100.57	4.33	0.63	99.63	2.89	0.46	TA
6DDNKG		88.27	-7.97	-1.16	89.22	-7.52	-1.21	TA
8DTHJH		92.81	-3.43	-0.50	91.63	-5.11	-0.82	XX
94GTBB		98.85	2.62	0.38	96.86	0.12	0.02	TA
9YLYDA		83.90	-12.33	-1.80	87.88	-8.86	-1.42	PE
AQQH2B		91.60	-4.64	-0.68	94.32	-2.42	-0.39	NZ
AY66BE		91.63	-4.61	-0.67	90.76	-5.98	-0.96	TA
C8P6PF		101.20	4.96	0.73	101.72	4.98	0.80	TA
C8Q3ZB		110.00	13.77	2.01	108.60	11.86	1.90	TA
FTD4HE		87.04	-9.19	-1.34	89.58	-7.16	-1.15	TA
JRV7HE		85.25	-10.98	-1.60	85.87	-10.86	-1.74	PE
KV7JZD		104.10	7.87	1.15	106.37	9.63	1.54	XX
MKHDTY		95.86	-0.38	-0.05	94.61	-2.13	-0.34	NZ
NDVZDW		103.21	6.97	1.02	101.56	4.82	0.77	TA
NU6RF3		102.55	6.32	0.92	97.03	0.29	0.05	MT
NZPUER		98.52	2.28	0.33	101.13	4.39	0.70	TA
T4TAXQ		96.28	0.05	0.01	100.69	3.95	0.63	MT
U3BR8Q		98.93	2.70	0.39	101.32	4.58	0.73	TA
UWTAXN		99.45	3.22	0.47	100.63	3.89	0.62	TA

Summary Statistics

	Sample W15	Sample W16
Grand Means	96.232 Joules Per Gram	96.739 Joules Per Gram
Stnd Dev Btwn Labs	6.847 Joules Per Gram	6.238 Joules Per Gram

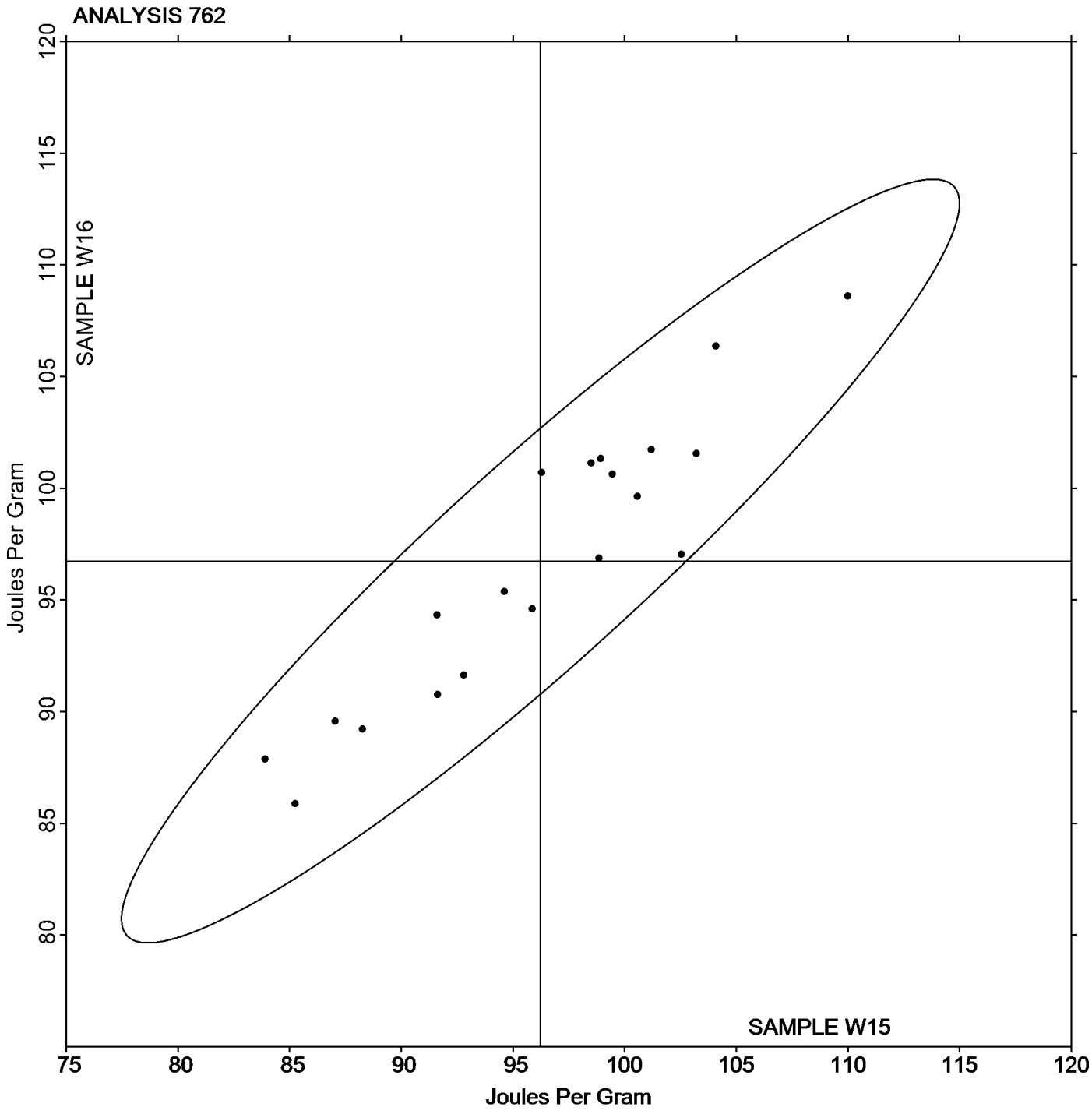
Statistics based on 20 of 20 reporting participants

Sample W15: PP & Sample W16: PP

Key to Instrument Codes Reported by Participants

- MT Mettler Toledo Instruments
- NZ Netzsch Instruments
- PE Perkins Elmer Instruments
- TA TA Instruments
- XX Instrument manufacturer not specified by lab

Grand Mean Sample W15: 96.232 Joules Per Gram Grand Mean Sample W16: 96.739 Joules Per Gram



WebCode	Data Flag	Sample W15 Lab Mean	Sample W15 Diff from Grand Mean	Sample W15 CPV	Sample W16 Lab Mean	Sample W16 Diff from Grand Mean	Sample W16 CPV	Instr Code
3FFQJV		89.71	-1.86	-0.16	90.99	-1.78	-0.17	TA
3JFN7G		83.27	-8.31	-0.71	86.83	-5.94	-0.57	TA
6DDNKG		80.72	-10.85	-0.93	80.34	-12.43	-1.20	TA
8DTHJH		85.10	-6.48	-0.55	85.95	-6.82	-0.66	XX
94GTBB		86.84	-4.73	-0.40	88.50	-4.28	-0.41	TA
9YLYDA	X	128.29	36.72	3.13	133.05	40.27	3.90	PE
AQQH2B		85.91	-5.66	-0.48	93.88	1.11	0.11	NZ
AY66BE		89.21	-2.37	-0.20	86.16	-6.62	-0.64	TA
C8P6PF		97.87	6.30	0.54	101.89	9.11	0.88	TA
C8Q3ZB		101.90	10.33	0.88	102.43	9.66	0.93	TA
FTD4HE		68.50	-23.08	-1.97	73.06	-19.72	-1.91	TA
JRV7HE		76.53	-15.04	-1.28	78.92	-13.86	-1.34	PE
KV7JZD		113.40	21.83	1.86	111.60	18.82	1.82	XX
MKHDTY		77.94	-13.64	-1.16	82.83	-9.95	-0.96	NZ
NDVZDW		104.21	12.64	1.08	102.96	10.18	0.98	TA
NU6RF3		102.21	10.64	0.91	95.30	2.53	0.24	MT
NZPUER		92.49	0.91	0.08	94.77	1.99	0.19	TA
T4TAXQ		95.76	4.18	0.36	97.39	4.62	0.45	MT
U3BR8Q		106.13	14.56	1.24	105.63	12.86	1.24	TA
UWTAXN		102.22	10.65	0.91	103.28	10.50	1.02	TA

Summary Statistics

	Sample W15	Sample W16
Grand Means	91.574 Joules Per Gram	92.775 Joules Per Gram
Stnd Dev Btwn Labs	11.729 Joules Per Gram	10.339 Joules Per Gram

Statistics based on 19 of 20 reporting participants

Sample W15: PP & Sample W16: PP

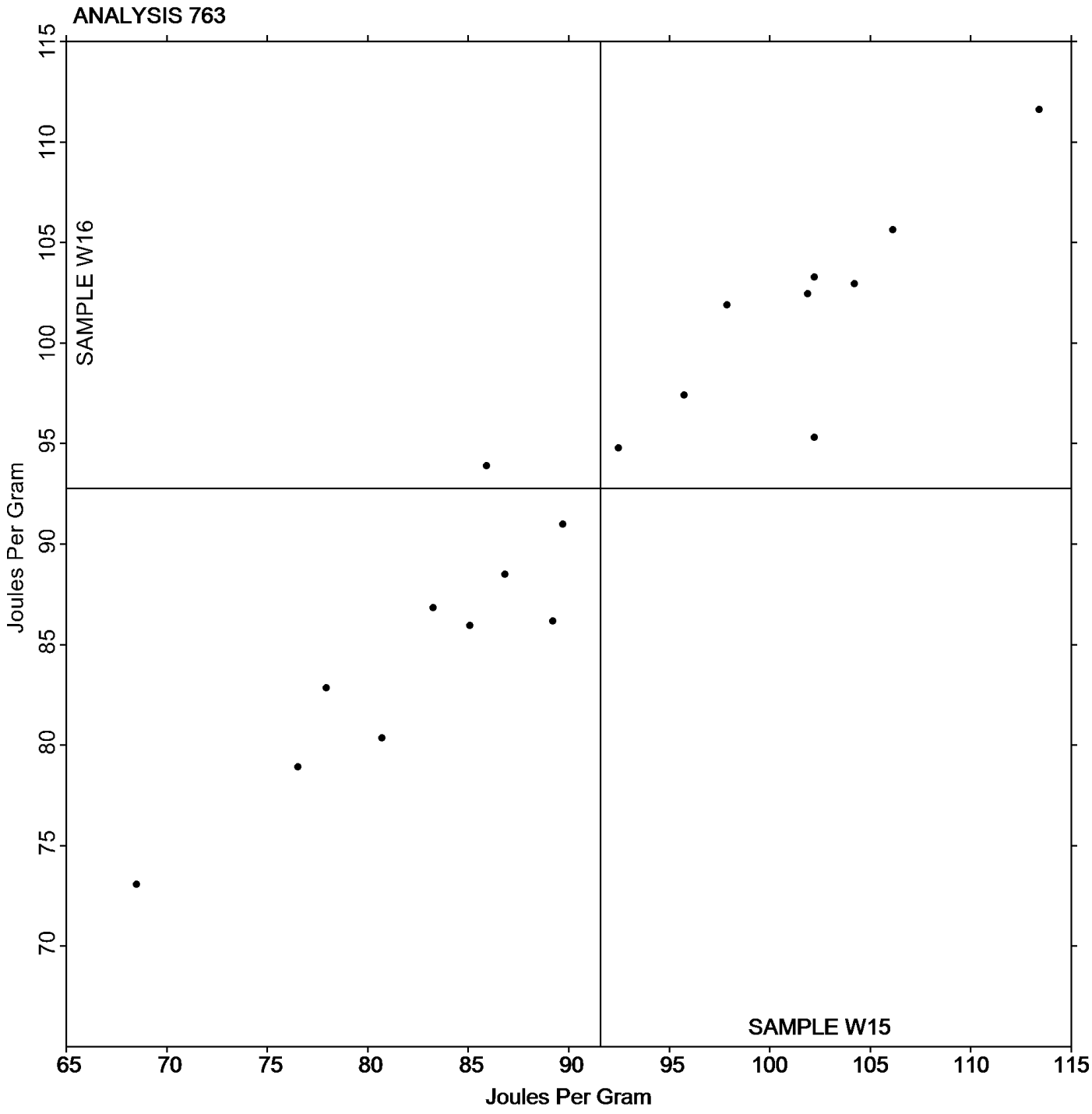
Comments on Assigned Data Flags for Test #763

9YLYDA (X) - Data for both samples are high and inconsistent within the determinations of both samples.

Key to Instrument Codes Reported by Participants

MT Mettler Toledo Instruments
NZ Netzsch Instruments
PE Perkins Elmer Instruments
TA TA Instruments
XX Instrument manufacturer not specified by lab

Grand Mean Sample W15: 91.574 Joules Per Gram Grand Mean Sample W16: 92.775 Joules Per Gram



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

Plastics Interlaboratory Testing Program

Analysis 764

DSC Glass Transition Temperature

Report #137

1st Qtr 2026

WebCode	Data Flag	Sample V15 Lab Mean	Sample V15 Diff from Grand Mean	Sample V15 CPV	Sample V16 Lab Mean	Sample V16 Diff from Grand Mean	Sample V16 CPV	Instr Code
3FFQJV		107.60	0.09	0.03	107.27	-0.21	-0.08	TA
3JFN7G		103.00	-4.51	-1.61	103.90	-3.57	-1.38	TA
6DDNKG		103.11	-4.40	-1.57	103.43	-4.04	-1.56	TA
8DTHJH		111.44	3.94	1.40	111.44	3.97	1.53	XX
94GTBB		109.60	2.09	0.75	109.73	2.26	0.87	TA
9YLYDA		102.76	-4.75	-1.69	102.51	-4.96	-1.91	PE
AQQH2B		110.50	2.99	1.07	110.53	3.06	1.18	NZ
AY66BE		107.33	-0.17	-0.06	107.17	-0.31	-0.12	TA
B7ZKJJ		101.36	-6.15	-2.19	103.57	-3.90	-1.50	SH
C8P6PF		110.53	3.02	1.08	110.60	3.12	1.20	TA
C8Q3ZB		109.10	1.59	0.57	109.53	2.06	0.79	TA
DCDE47		109.74	2.23	0.80	110.05	2.58	0.99	TA
FTD4HE		109.44	1.94	0.69	110.15	2.68	1.03	TA
JRV7HE		108.00	0.50	0.18	107.71	0.24	0.09	PE
KV7JZD		108.60	1.09	0.39	108.57	1.09	0.42	XX
MKHDTY		109.27	1.76	0.63	110.03	2.56	0.99	NZ
NDVZDW		105.13	-2.37	-0.85	105.87	-1.61	-0.62	TA
NU6RF3		107.99	0.49	0.17	108.40	0.93	0.36	MT
NZPUER		106.52	-0.99	-0.35	106.17	-1.31	-0.50	TA
T4TAXQ		107.52	0.01	0.00	106.93	-0.54	-0.21	MT
U3BR8Q	*	110.72	3.22	1.15	106.77	-0.70	-0.27	TA
UWTAXN		107.19	-0.32	-0.11	104.85	-2.62	-1.01	TA
YMQHJH		106.17	-1.34	-0.48	106.68	-0.79	-0.30	TA

Summary Statistics

	Sample V15	Sample V16
Grand Means	107.505 Degrees Celsius	107.473 Degrees Celsius
Stnd Dev Btwn Labs	2.803 Degrees Celsius	2.597 Degrees Celsius

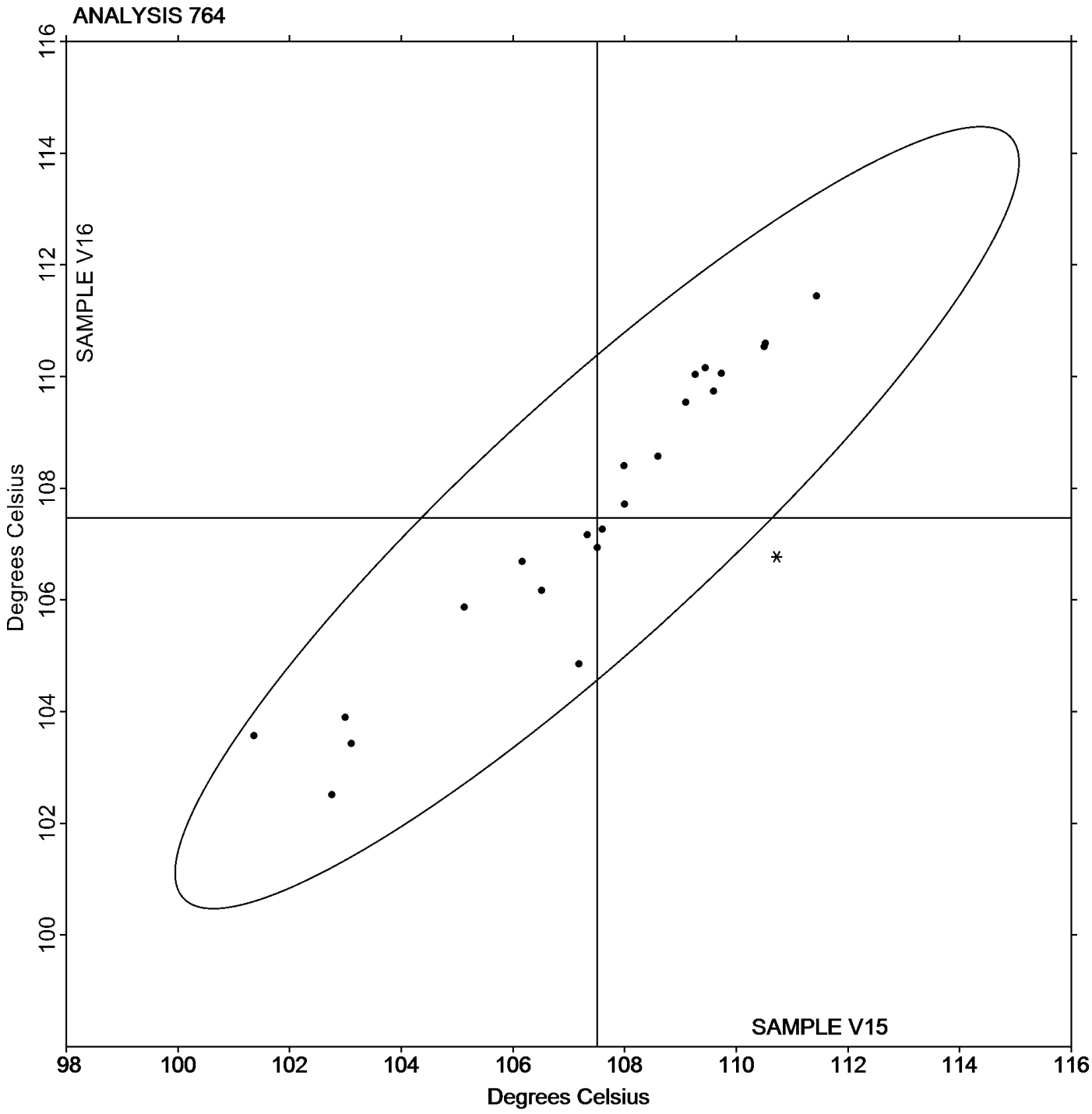
Statistics based on 23 of 23 reporting participants

Sample V15: ABS & Sample V16: ABS

Key to Instrument Codes Reported by Participants

MT	Mettler Toledo Instruments	NZ	Netzsch Instruments
PE	Perkins Elmer Instruments	SH	Shimadzu
TA	TA Instruments	XX	Instrument manufacturer not specified by lab

Grand Mean Sample V15: 107.51 Degrees Celsius Grand Mean Sample V16: 107.47 Degrees Celsius



WebCode	Data Flag	Sample W15 Lab Mean	Sample W15 Diff from Grand Mean	Sample W15 CPV	Sample W16 Lab Mean	Sample W16 Diff from Grand Mean	Sample W16 CPV	Instr Code
3FFQJV		110.43	1.61	0.47	111.07	1.84	0.55	TA
3JFN7G		110.53	1.71	0.49	110.60	1.37	0.41	TA
6DDNKG		103.11	-5.71	-1.65	103.43	-5.80	-1.72	TA
C8P6PF		104.80	-4.02	-1.16	104.90	-4.33	-1.29	TA
C8Q3ZB		109.27	0.45	0.13	111.20	1.97	0.59	TA
DYUPDG		109.93	1.11	0.32	109.90	0.67	0.20	TA
GNFY42		113.54	4.72	1.36	113.32	4.09	1.22	SH
KV7JZD		107.73	-1.09	-0.31	108.63	-0.60	-0.18	XX
MKHDTY		112.77	3.95	1.14	111.60	2.37	0.70	NZ
NZPUER		110.75	1.93	0.56	112.13	2.90	0.86	TA
U3BR8Q		104.17	-4.65	-1.34	104.76	-4.47	-1.33	TA

Summary Statistics

	Sample W15	Sample W16
Grand Means	108.822 Degrees Celsius	109.230 Degrees Celsius
Stnd Dev Btwn Labs	3.465 Degrees Celsius	3.363 Degrees Celsius

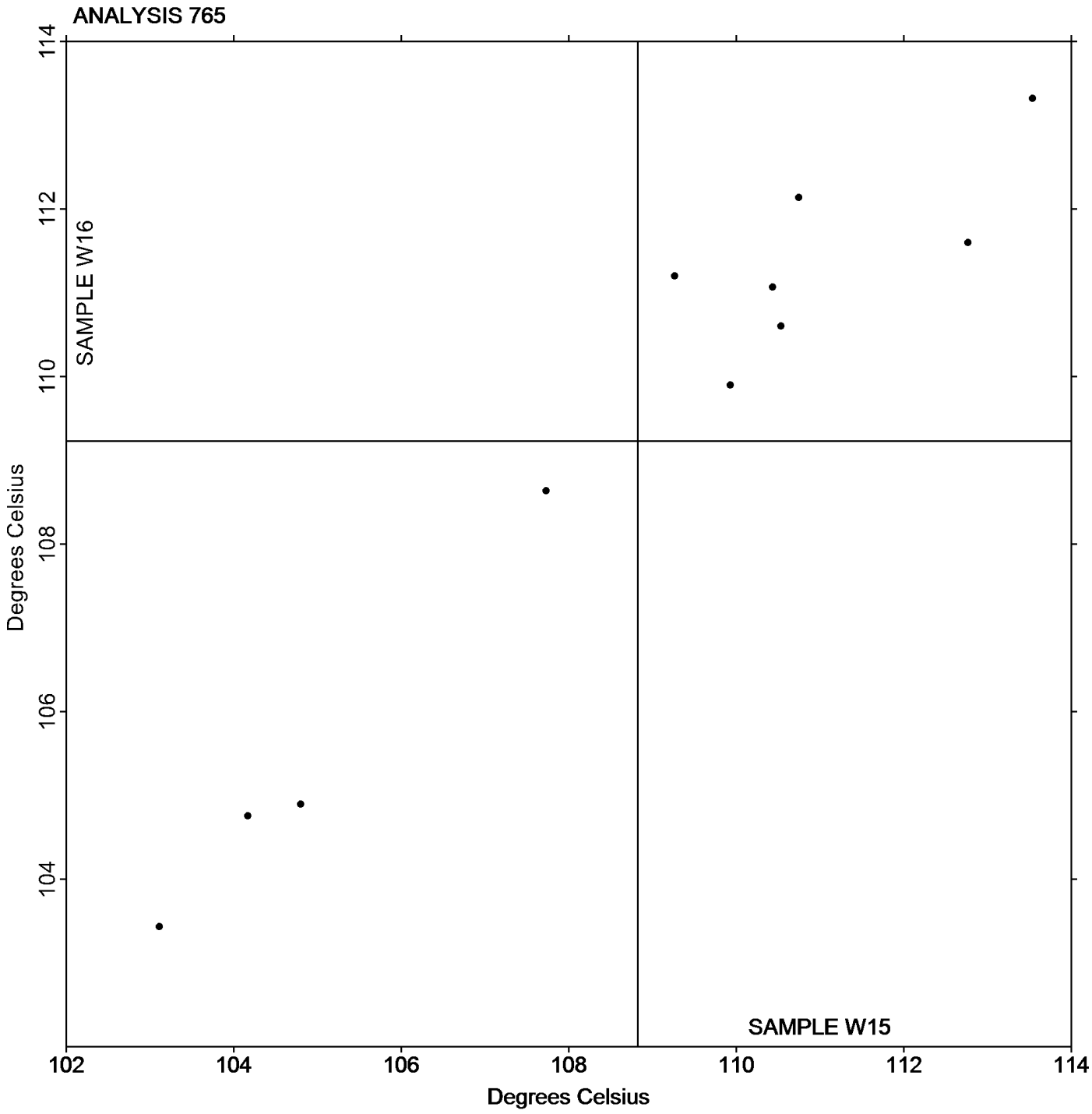
Statistics based on 11 of 11 reporting participants

Sample W15: PP & Sample W16: PP

Key to Instrument Codes Reported by Participants

NZ Netzsch Instruments
SH Shimadzu
TA TA Instruments
XX Instrument manufacturer not specified by lab

Grand Mean Sample W15: 108.82 Degrees Celsius Grand Mean Sample W16: 109.23 Degrees Celsius



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 W15 Lab Mean	Sample W15 Diff from Grand Mean	Sample W15 CPV	Sample W16 Lab Mean	Sample W16 Diff from Grand Mean	Sample W16 CPV	Instr Code
3FFQJV		165.03	-0.26	-0.14	165.87	0.54	0.27	XX
3JFN7G		169.17	3.87	2.03	169.33	4.00	1.99	TA
6DDNKG		163.17	-2.12	-1.11	161.81	-3.52	-1.75	TA
C8P6PF		164.41	-0.88	-0.46	164.28	-1.05	-0.52	TA
C8Q3ZB		166.27	0.97	0.51	166.97	1.64	0.82	TA
DYUPDG		164.37	-0.93	-0.49	165.03	-0.30	-0.15	TA
GNFY42		164.75	-0.54	-0.29	165.58	0.25	0.12	SH
KV7JZD		167.40	2.11	1.10	165.80	0.47	0.23	XX
MKHDTY		166.37	1.07	0.56	166.47	1.14	0.57	NZ
NZPUER		164.86	-0.44	-0.23	164.50	-0.83	-0.41	TA
U3BR8Q		162.44	-2.85	-1.50	162.99	-2.34	-1.16	TA

Summary Statistics

	Sample W15	Sample W16
Grand Means	165.294 Degrees Celsius	165.329 Degrees Celsius
Stnd Dev Btwn Labs	1.906 Degrees Celsius	2.008 Degrees Celsius

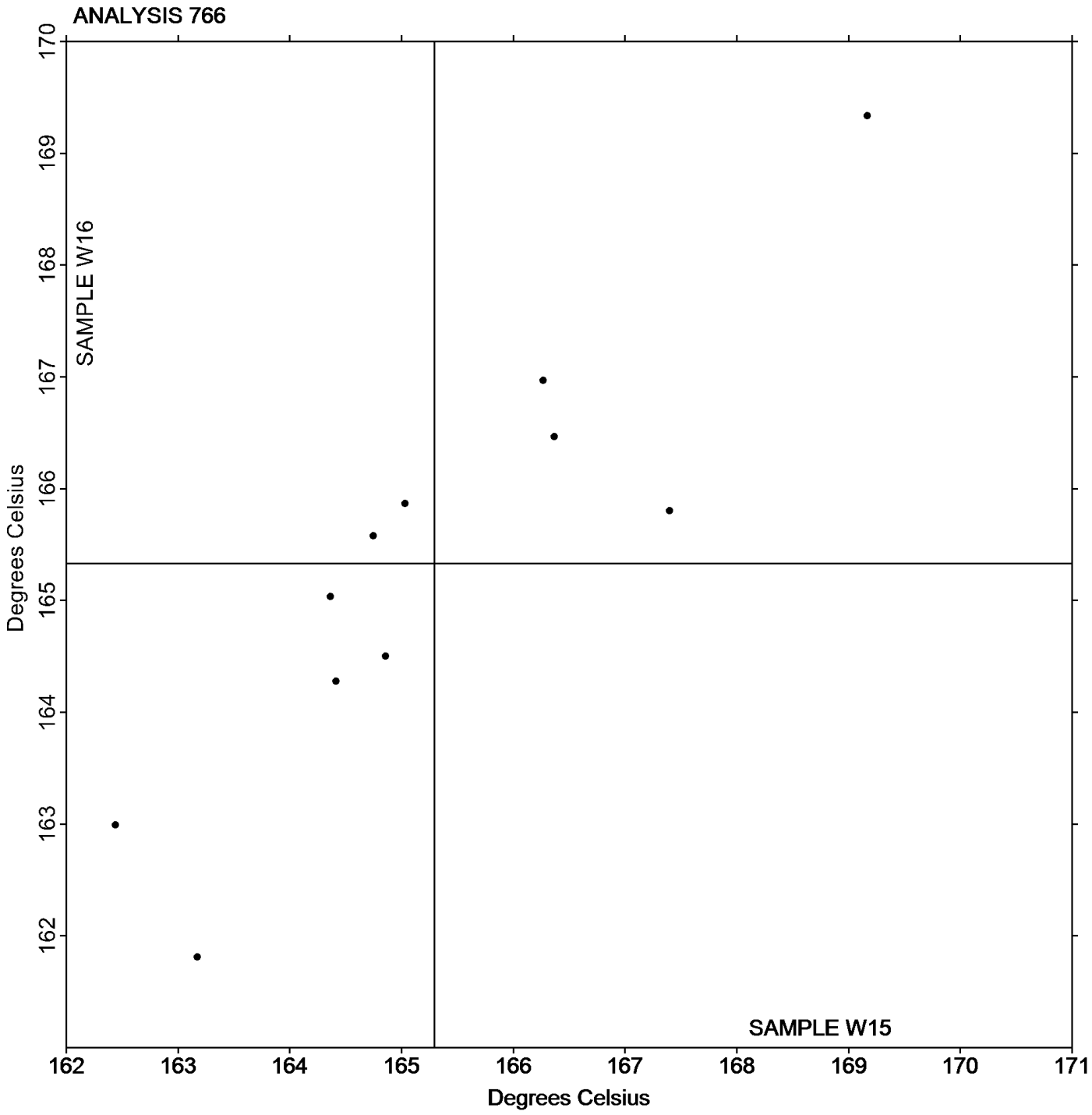
Statistics based on 11 of 11 reporting participants

Sample W15: PP & Sample W16: PP

Key to Instrument Codes Reported by Participants

NZ Netzsch Instruments
SH Shimadzu
TA TA Instruments
XX Instrument manufacturer not specified by lab

Grand Mean Sample W15: 165.29 Degrees Celsius Grand Mean Sample W16: 165.33 Degrees Celsius



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 W15 Lab Mean	Sample W15 Diff from Grand Mean	Sample W15 CPV	Sample W16 Lab Mean	Sample W16 Diff from Grand Mean	Sample W16 CPV	Instr Code
3FFQJV		94.63	-4.47	-0.80	95.37	-4.76	-0.82	TA
3JFN7G		101.60	2.51	0.45	102.23	2.10	0.36	TA
6DDNKG		88.27	-10.83	-1.93	89.22	-10.91	-1.89	TA
C8P6PF		101.20	2.10	0.37	101.72	1.59	0.28	TA
C8Q3ZB		109.07	9.97	1.78	109.07	8.94	1.55	TA
DYUPDG		98.77	-0.33	-0.06	100.27	0.14	0.02	TA
KV7JZD		104.10	5.01	0.89	106.37	6.24	1.08	XX
MKHDTY		95.86	-3.24	-0.58	94.61	-5.52	-0.96	NZ
NZPUER		98.52	-0.58	-0.10	101.13	1.00	0.17	TA
U3BR8Q		98.93	-0.16	-0.03	101.32	1.19	0.21	TA

Summary Statistics

	Sample W15	Sample W16
Grand Means	99.093 Joules Per Gram	100.130 Joules Per Gram
Stnd Dev Btwn Labs	5.611 Joules Per Gram	5.777 Joules Per Gram

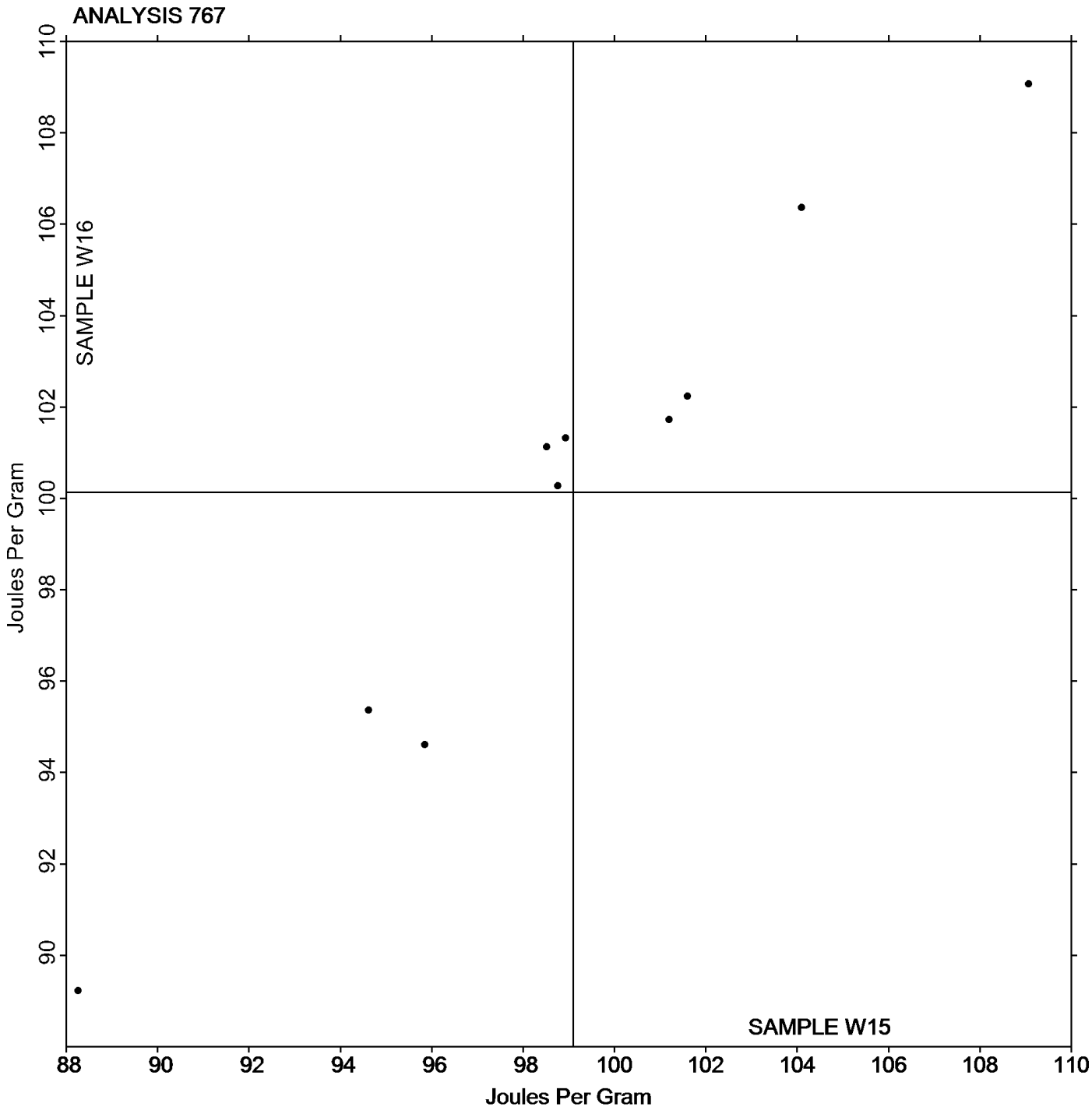
Statistics based on 10 of 10 reporting participants

Sample W15: PP & Sample W16: PP

Key to Instrument Codes Reported by Participants

NZ Netzsch Instruments
TA TA Instruments
XX Instrument manufacturer not specified by lab

Grand Mean Sample W15: 99.093 Joules Per Gram Grand Mean Sample W16: 100.13 Joules Per Gram



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 W15 Lab Mean	Sample W15 Diff from Grand Mean	Sample W15 CPV	Sample W16 Lab Mean	Sample W16 Diff from Grand Mean	Sample W16 CPV	Instr Code
3FFQJV		89.71	-5.47	-0.46	90.99	-5.53	-0.52	XX
3JFN7G		86.33	-8.84	-0.75	90.13	-6.39	-0.60	TA
6DDNKG		80.72	-14.45	-1.23	80.34	-16.18	-1.53	TA
C8P6PF		97.87	2.69	0.23	101.89	5.37	0.51	TA
C8Q3ZB		100.00	4.82	0.41	98.33	1.81	0.17	TA
DYUPDG		107.17	11.99	1.02	109.22	12.70	1.20	TA
KV7JZD		113.40	18.22	1.55	111.07	14.54	1.37	XX
MKHDTY		77.94	-17.24	-1.46	82.83	-13.69	-1.29	NZ
NZPUER		92.49	-2.69	-0.23	94.77	-1.75	-0.17	XX
U3BR8Q		106.13	10.96	0.93	105.63	9.11	0.86	TA

Summary Statistics

	Sample W15	Sample W16
Grand Means	95.176 Joules Per Gram	96.522 Joules Per Gram
Stnd Dev Btwn Labs	11.775 Joules Per Gram	10.602 Joules Per Gram

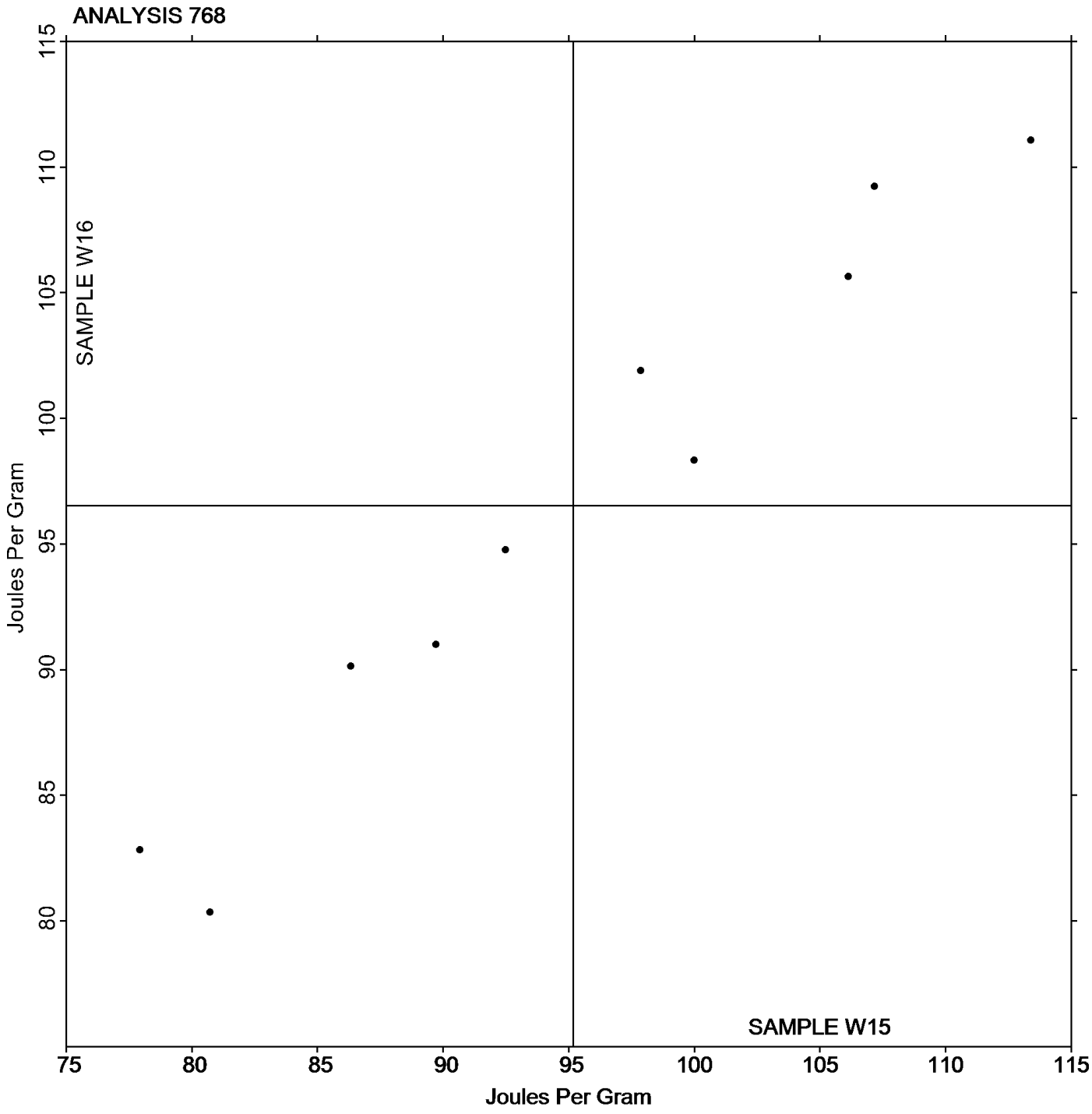
Statistics based on 10 of 10 reporting participants

Sample W15: PP & Sample W16: PP

Key to Instrument Codes Reported by Participants

NZ Netzsch Instruments
TA TA Instruments
XX Instrument manufacturer not specified by lab

Grand Mean Sample W15: 95.176 Joules Per Gram Grand Mean Sample W16: 96.522 Joules Per Gram



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 V15 Lab Mean	Sample V15 Diff from Grand Mean	Sample V15 CPV	Sample V16 Lab Mean	Sample V16 Diff from Grand Mean	Sample V16 CPV	Instr Code
3FFQJV		107.60	0.61	0.20	107.27	0.54	0.21	XX
3JFN7G		102.20	-4.79	-1.57	103.23	-3.50	-1.34	TA
6DDNKG		103.11	-3.88	-1.27	103.43	-3.30	-1.27	TA
C8P6PF		110.53	3.54	1.16	110.60	3.87	1.49	TA
DYUPDG		107.77	0.78	0.26	108.03	1.30	0.50	TA
GNFY42		105.16	-1.83	-0.60	105.04	-1.69	-0.65	SH
MKHDTY		109.27	2.28	0.75	110.03	3.30	1.27	NZ
NZPUER		106.52	-0.47	-0.15	106.17	-0.56	-0.22	TA
U3BR8Q		110.72	3.74	1.23	106.77	0.04	0.02	TA

Summary Statistics

	Sample V15	Sample V16
Grand Means	106.985 Degrees Celsius	106.730 Degrees Celsius
Stnd Dev Btwn Labs	3.045 Degrees Celsius	2.601 Degrees Celsius

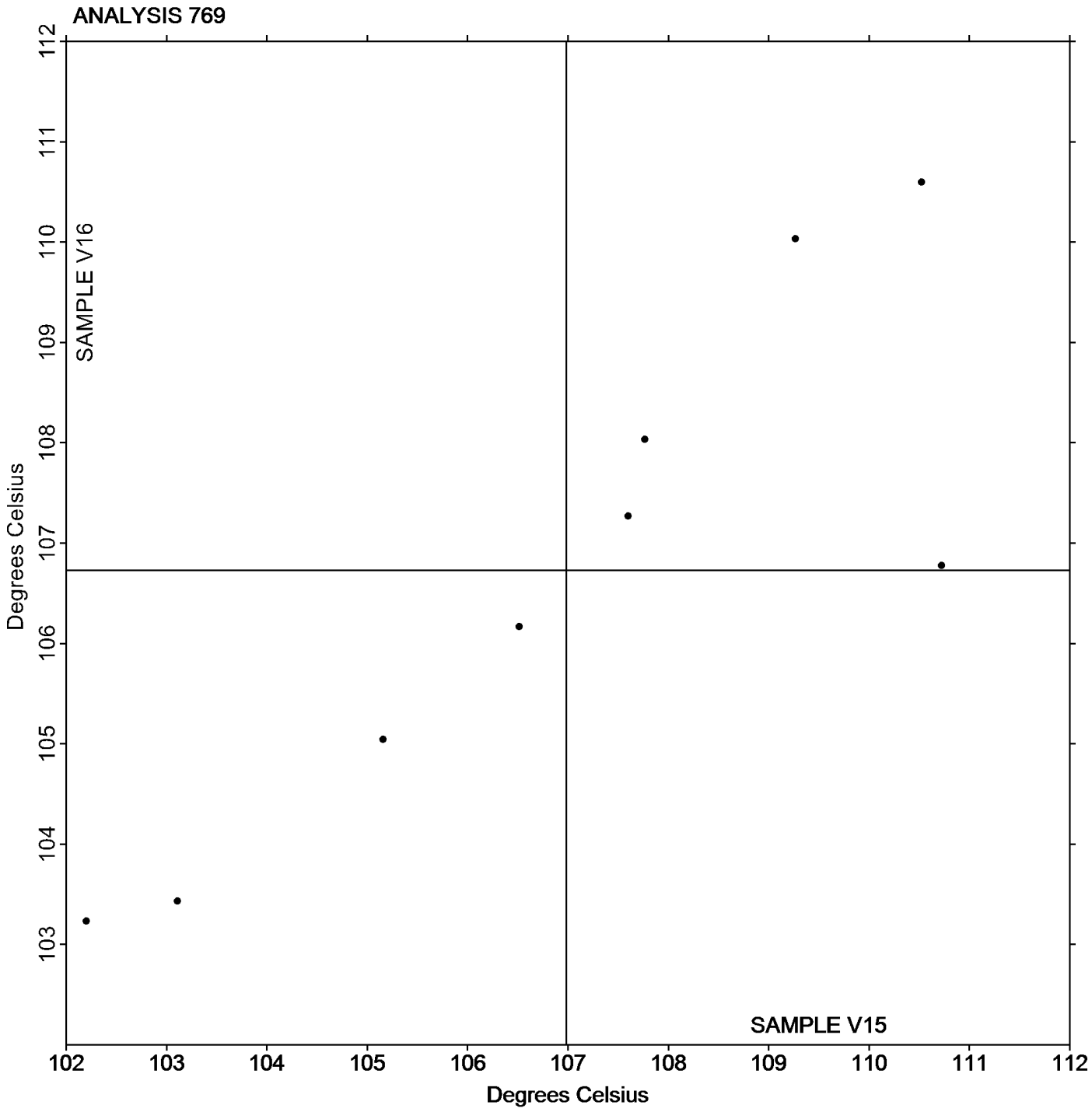
Statistics based on 9 of 9 reporting participants

Sample V15: ABS & Sample V16: ABS

Key to Instrument Codes Reported by Participants

NZ Netzsch Instruments
SH Shimadzu
TA TA Instruments
XX Instrument manufacturer not specified by lab

Grand Mean Sample V15: 106.99 Degrees Celsius Grand Mean Sample V16: 106.73 Degrees Celsius



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 B15 Lab Mean	Sample B15 Diff from Grand Mean	Sample B15 CPV	Sample B16 Lab Mean	Sample B16 Diff from Grand Mean	Sample B16 CPV	Instr Code
2T3F2L		2,185	14	0.15	2,130	30	0.21	IN
4C9U9Q		2,114	-57	-0.61	2,040	-60	-0.41	IN
4CM4DK		2,165	-6	-0.06	2,279	179	1.21	IN
B7ZKJJ		2,328	157	1.67	2,297	197	1.34	WZ
C9LNRG		2,182	11	0.11	1,927	-173	-1.18	IN
DYUPDG		1,947	-224	-2.38	1,806	-294	-2.00	IN
GKJBPE		2,252	81	0.86	2,164	64	0.43	IN
LHCLAY		2,104	-67	-0.72	1,944	-156	-1.06	IN
LHHV66		2,262	91	0.97	2,290	190	1.29	XX
LQUVXV		2,237	67	0.71	2,146	46	0.31	IN
NZ72LU		2,114	-57	-0.61	2,120	20	0.14	TH
X4EHQG		2,179	8	0.08	2,080	-20	-0.14	IM
YL9PKT	X	4,244	2,073	22.08	4,986	2,886	19.61	TO
ZHLJCH		2,154	-17	-0.18	2,077	-23	-0.16	IN

Summary Statistics

	Sample B15	Sample B16
Grand Means	2,170.8 psi	2,100.0 psi
Stnd Dev Btwn Labs	93.9 psi	147.1 psi

Statistics based on 13 of 14 reporting participants

Sample B15: LDPE & Sample B16: LDPE

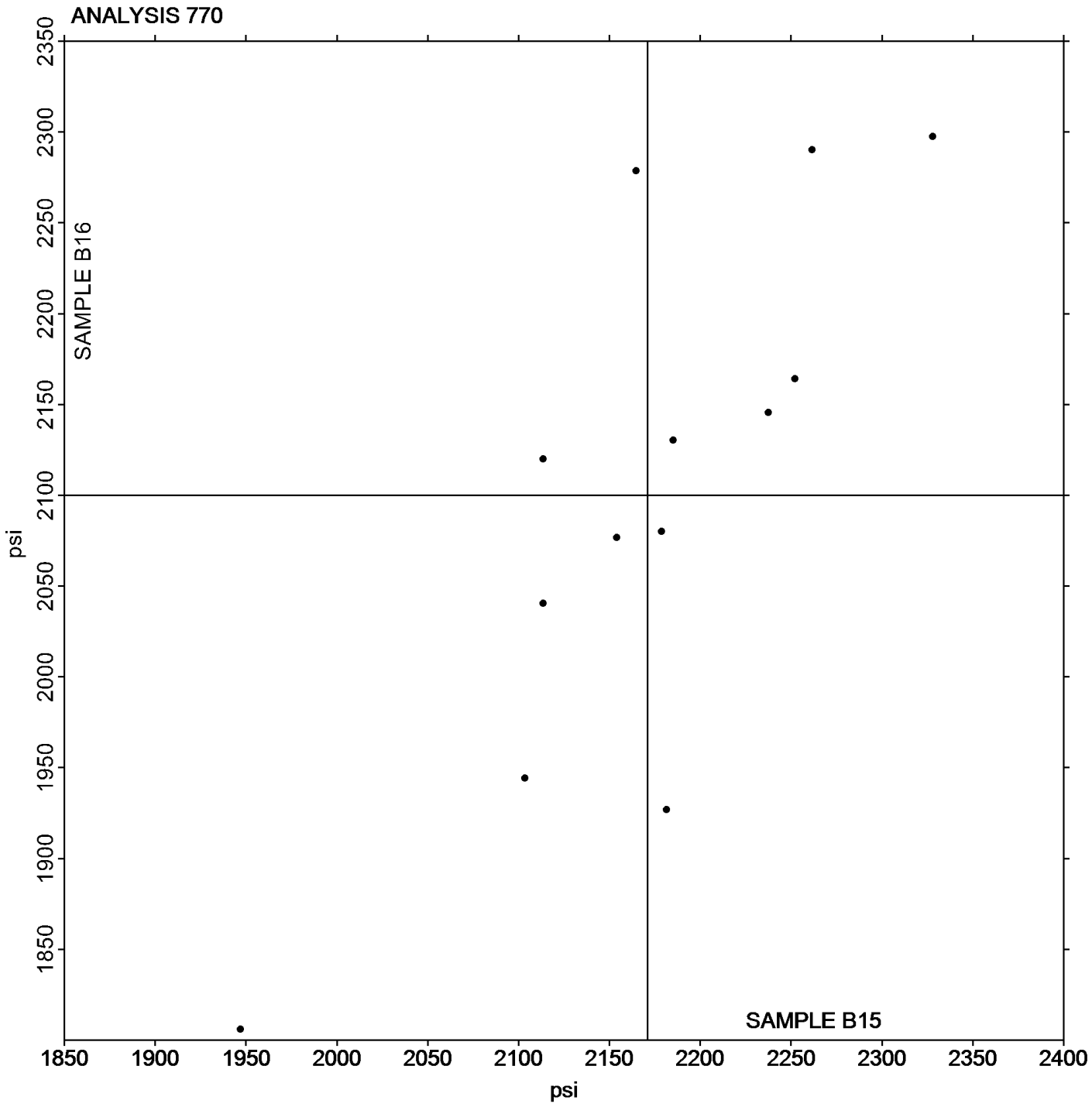
Comments on Assigned Data Flags for Test #770

YL9PKT (X) - Extreme data.

Key to Instrument Codes Reported by Participants

IM	Instru-Met Instruments	IN	Instron
TH	Thwing Albert	TO	Tinius Olsen
WZ	Zwick	XX	Instrument manufacturer not specified by lab

Grand Mean Sample B15: 2,170.84 psi Grand Mean Sample B16: 2,100.02 psi



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 B15 Lab Mean	Sample B15 Diff from Grand Mean	Sample B15 CPV	Sample B16 Lab Mean	Sample B16 Diff from Grand Mean	Sample B16 CPV	Instr Code
2T3F2L		4,092	143	0.27	4,617	286	0.43	IN
4C9U9Q		4,258	309	0.59	4,638	307	0.46	IN
4CM4DK		4,554	605	1.16	5,147	816	1.23	IN
AVLAA9		4,099	150	0.29	4,828	497	0.75	TH
B7ZKJJ		4,475	526	1.01	4,893	562	0.85	WZ
C9LNRG	X	2,172	-1,777	-3.41	3,476	-855	-1.29	IN
CHPV93		4,218	269	0.52	4,535	204	0.31	IN
DYUPDG		3,266	-683	-1.31	3,731	-600	-0.90	IN
GKJBPE	*	4,015	66	0.13	3,565	-766	-1.15	IN
LHCLAY		4,262	314	0.60	4,418	86	0.13	IN
LHHV66		4,185	237	0.45	4,676	344	0.52	XX
LQUVXV		2,653	-1,296	-2.48	2,674	-1,658	-2.50	IN
NZ72LU		3,886	-62	-0.12	4,416	84	0.13	TH
X4EHQG		3,272	-677	-1.30	3,612	-719	-1.08	IM
YL9PKT		4,298	349	0.67	4,946	615	0.93	TO
ZHLJCH		3,696	-253	-0.48	4,274	-57	-0.09	IN

Summary Statistics

	Sample B15	Sample B16
Grand Means	3,948.6 psi	4,331.3 psi
Stnd Dev Btwn Labs	521.4 psi	664.0 psi

Statistics based on 15 of 16 reporting participants

Sample B15: LDPE & Sample B16: LDPE

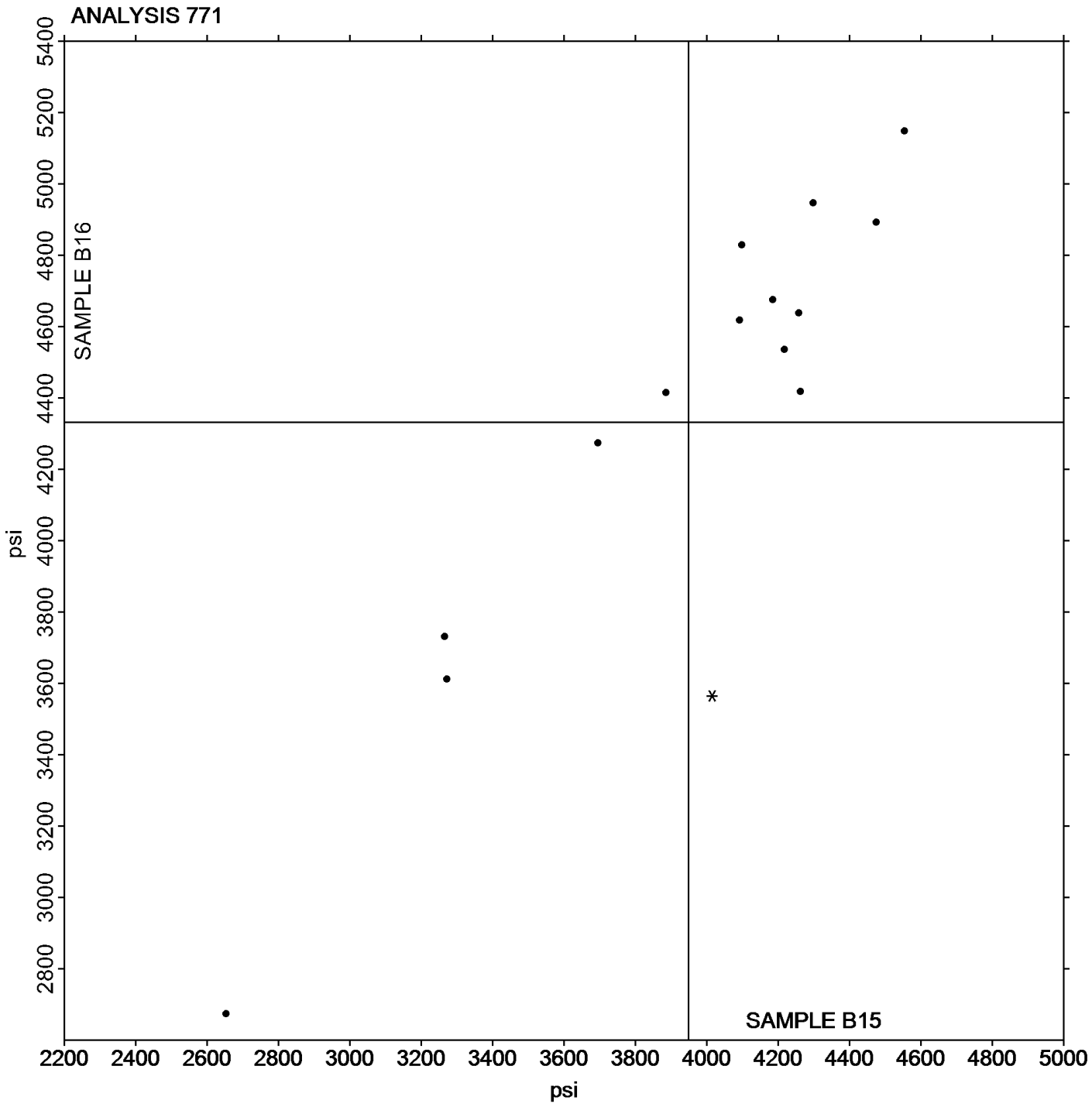
Comments on Assigned Data Flags for Test #771

C9LNRG (X) - Low data for Sample B15. Inconsistent within the determinations of sample B15.

Key to Instrument Codes Reported by Participants

IM	Instru-Met Instruments	IN	Instron
TH	Thwing Albert	TO	Tinius Olsen
WZ	Zwick	XX	Instrument manufacturer not specified by lab

Grand Mean Sample B15: 3,948.62 psi Grand Mean Sample B16: 4,331.30 psi



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 B15 Lab Mean	Sample B15 Diff from Grand Mean	Sample B15 CPV	Sample B16 Lab Mean	Sample B16 Diff from Grand Mean	Sample B16 CPV	Instr Code
2T3F2L		56.71	24.40	1.51	67.35	15.20	0.85	IN
4C9U9Q		17.71	-14.60	-0.90	59.26	7.11	0.40	IN
4CM4DK		53.70	21.39	1.32	57.77	5.61	0.31	IN
AVLAA9		32.75	0.44	0.03	51.81	-0.34	-0.02	TH
B7ZKJJ		14.90	-17.41	-1.07	49.00	-3.15	-0.18	WZ
C9LNRG		26.02	-6.29	-0.39	25.55	-26.60	-1.48	IN
DYUPDG		15.83	-16.48	-1.02	39.68	-12.47	-0.70	IN
GKJBPE		33.30	0.99	0.06	67.50	15.35	0.86	IN
LHCLAY		8.11	-24.20	-1.49	8.13	-44.02	-2.46	IN
LHHV66		24.79	-7.52	-0.46	62.98	10.82	0.60	XX
LQUVXV		53.98	21.67	1.34	59.10	6.95	0.39	IN
NZ72LU	X	851.50	819.19	50.57	901.92	849.76	47.40	OA
X4EHQG		41.99	9.68	0.60	66.51	14.36	0.80	IM
YL9PKT	X	934.16	901.85	55.67	1,032.89	980.74	54.71	TO
ZHLJCH		40.22	7.91	0.49	63.34	11.19	0.62	IN

Summary Statistics

	Sample B15	Sample B16
Grand Means	32.307 Percent	52.152 Percent
Stnd Dev Btwn Labs	16.201 Percent	17.927 Percent

Statistics based on 13 of 15 reporting participants

Sample B15: LDPE & Sample B16: LDPE

Comments on Assigned Data Flags for Test #772

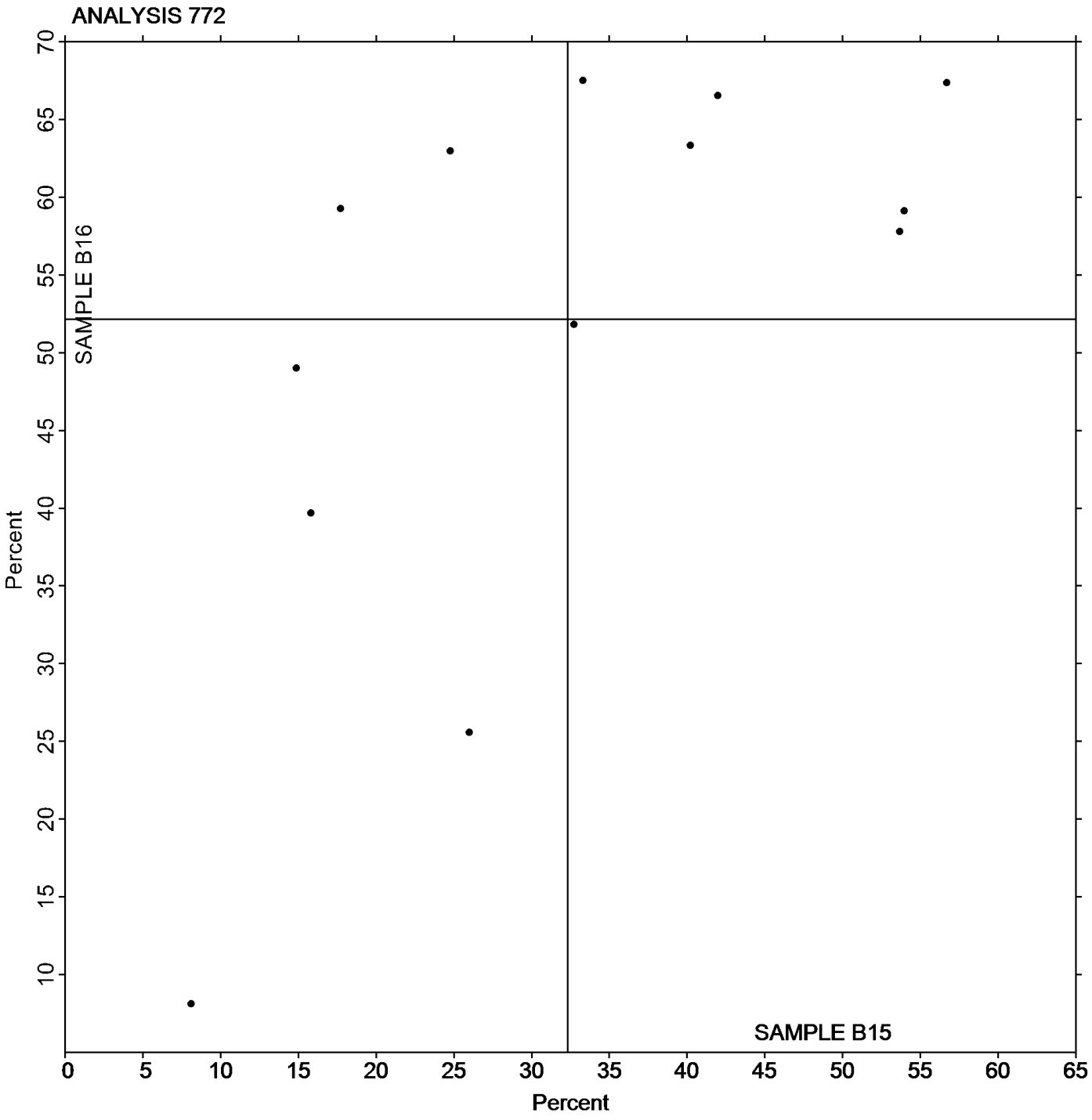
YL9PKT (X) - Extreme data.

NZ72LU (X) - Extreme data.

Key to Instrument Codes Reported by Participants

IM	Instru-Met Instruments	IN	Instron
OA	Oakland Testing	TH	Thwing Albert
TO	Tinius Olsen	WZ	Zwick
XX	Instrument manufacturer not specified by lab		

Grand Mean Sample B15: 32.307 Percent Grand Mean Sample B16: 52.152 Percent



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 B15 Lab Mean	Sample B15 Diff from Grand Mean	Sample B15 CPV	Sample B16 Lab Mean	Sample B16 Diff from Grand Mean	Sample B16 CPV	Instr Code
2T3F2L		978.5	94.7	0.42	1,086.2	129.8	0.52	IN
4C9U9Q		1,032.2	148.4	0.65	1,077.2	120.8	0.48	IN
4CM4DK		813.8	-70.0	-0.31	833.4	-123.0	-0.49	IN
AVLAA9		1,300.7	417.0	1.83	1,419.8	463.4	1.85	TH
B7ZKJJ		697.0	-186.8	-0.82	718.0	-238.4	-0.95	WZ
C9LNRG	*	628.6	-255.2	-1.12	818.4	-138.0	-0.55	IN
CHPV93		944.3	60.5	0.27	971.5	15.1	0.06	IN
DYUPDG		628.0	-255.8	-1.12	694.7	-261.7	-1.05	IN
GKJBPE		1,039.0	155.2	0.68	1,100.0	143.6	0.57	IN
LHCLAY		729.7	-154.0	-0.68	720.4	-236.0	-0.94	IN
LHHV66		1,245.8	362.0	1.59	1,390.7	434.3	1.73	XX
LQUVXV		480.9	-402.9	-1.77	513.4	-443.0	-1.77	IN
X4EHQG		867.0	-16.8	-0.07	943.5	-12.9	-0.05	IM
YL9PKT		934.7	50.9	0.22	1,028.6	72.2	0.29	TO
ZHLJCH		936.5	52.7	0.23	1,030.6	74.2	0.30	IN

Summary Statistics

	Sample B15	Sample B16
Grand Means	883.79 Percent	956.43 Percent
Stnd Dev Btwn Labs	227.68 Percent	250.42 Percent

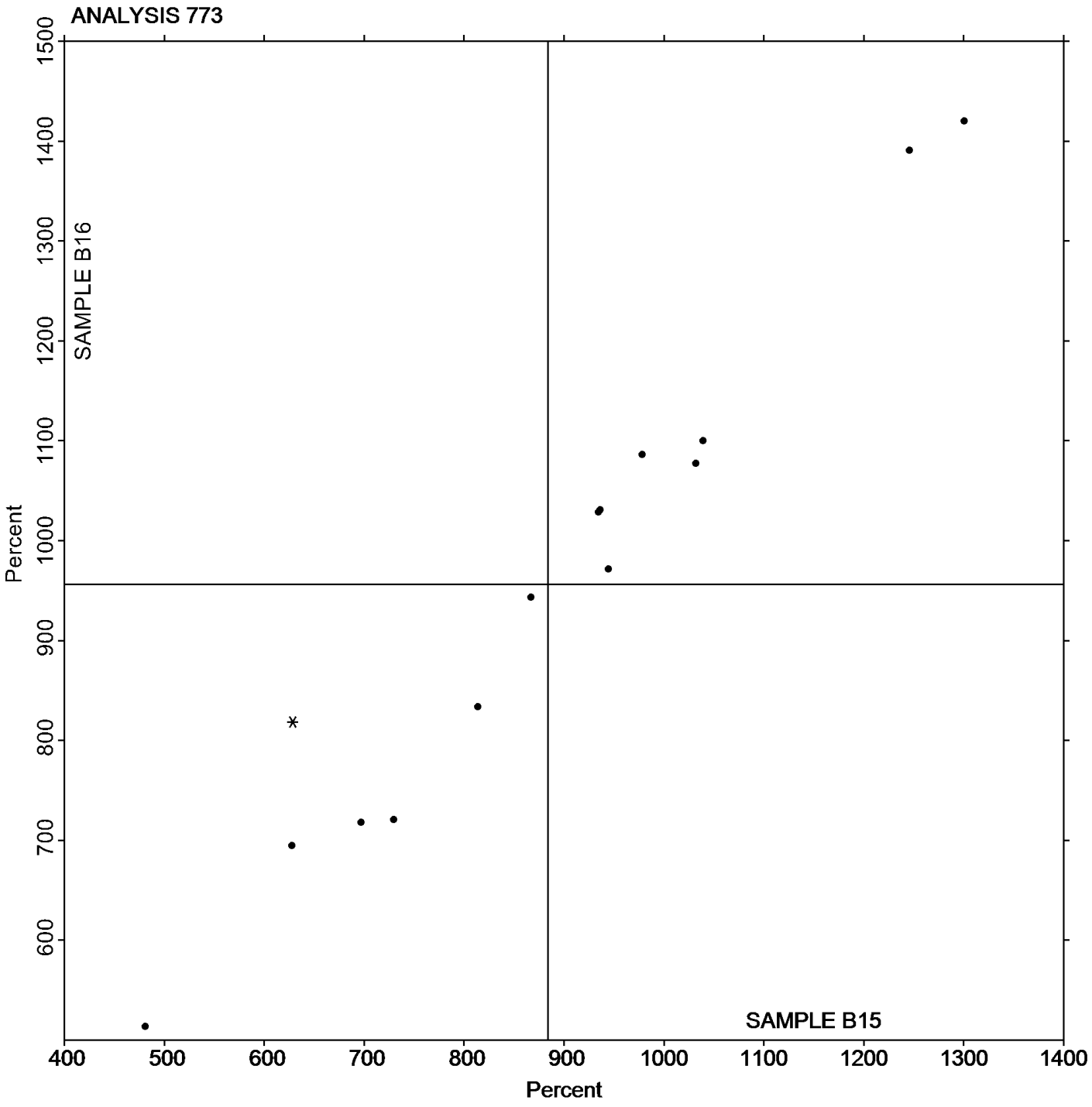
Statistics based on 15 of 15 reporting participants

Sample B15: LDPE & Sample B16: LDPE

Key to Instrument Codes Reported by Participants

IM	Instru-Met Instruments	IN	Instron
TH	Thwing Albert	TO	Tinius Olsen
WZ	Zwick	XX	Instrument manufacturer not specified by lab

Grand Mean Sample B15: 883.79 Percent Grand Mean Sample B16: 956.43 Percent



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 B15 Lab Mean	Sample B15 Diff from Grand Mean	Sample B15 CPV	Sample B16 Lab Mean	Sample B16 Diff from Grand Mean	Sample B16 CPV
2T3F2L		3.7441	-0.0888	-0.72	3.7835	-0.0986	-0.73
4C9U9Q		3.9700	0.1371	1.11	4.0100	0.1279	0.94
4CM4DK		3.6300	-0.2029	-1.64	3.8700	-0.0121	-0.09
78AVDR		3.7450	-0.0879	-0.71	3.8150	-0.0671	-0.50
83DN9P		3.7310	-0.1019	-0.82	3.8170	-0.0651	-0.48
AVLAA9		3.8380	0.0051	0.04	3.8230	-0.0591	-0.44
B7ZKJJ		3.7205	-0.1124	-0.91	3.7047	-0.1774	-1.31
C9LNRG		3.9646	0.1317	1.06	3.9213	0.0392	0.29
CHPV93		3.9500	0.1171	0.94	3.9780	0.0959	0.71
DYUPDG		3.9480	0.1151	0.93	4.0760	0.1939	1.43
GKJBPE		3.9100	0.0771	0.62	4.0250	0.1429	1.05
LHCLAY		3.9060	0.0731	0.59	3.8930	0.0109	0.08
LHHV66		4.0200	0.1871	1.51	3.9880	0.1059	0.78
LQUVXV		3.6990	-0.1339	-1.08	3.9810	0.0989	0.73
NZ72LU		3.7500	-0.0829	-0.67	3.6510	-0.2311	-1.71
X4EHQG		3.9100	0.0771	0.62	3.9700	0.0879	0.65
YL9PKT		3.6450	-0.1879	-1.52	3.5950	-0.2871	-2.12
ZHLJCH		3.9110	0.0781	0.63	3.9760	0.0939	0.69

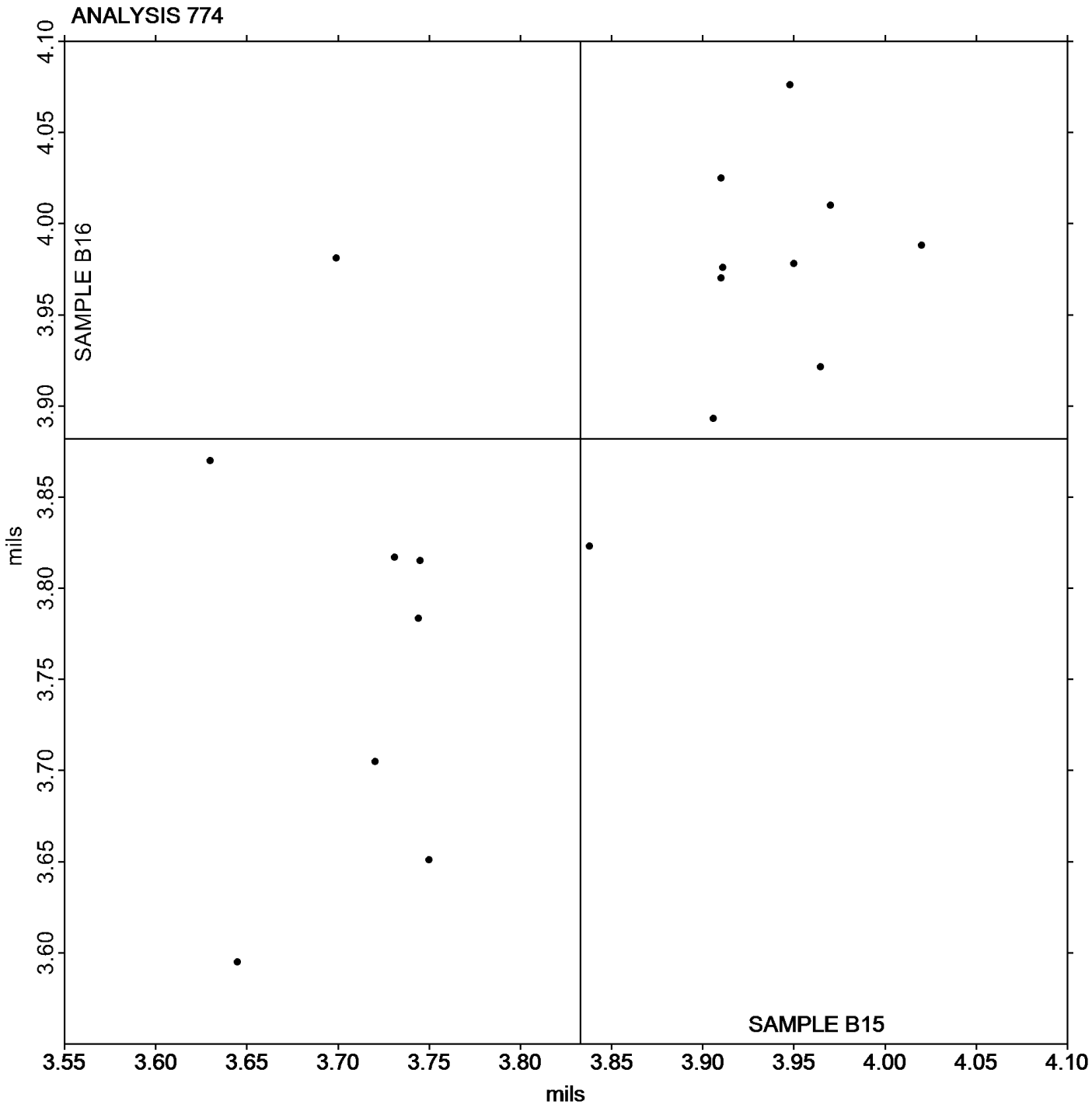
Summary Statistics

	Sample B15	Sample B16
Grand Means	3.83290 mils	3.88208 mils
Stnd Dev Btwn Labs	0.12400 mils	0.13551 mils

Statistics based on 18 of 18 reporting participants

Sample B15: LDPE & Sample B16: LDPE

Grand Mean Sample B15: 3.8329 mils Grand Mean Sample B16: 3.8821 mils



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 B15 Lab Mean	Sample B15 Diff from Grand Mean	Sample B15 CPV	Sample B16 Lab Mean	Sample B16 Diff from Grand Mean	Sample B16 CPV	Instr Code
2T3F2L		64,606	10,375	1.17	56,088	8,152	1.03	IN
4C9U9Q		48,597	-5,634	-0.63	42,948	-4,988	-0.63	IN
DYUPDG		55,520	1,289	0.14	50,650	2,714	0.34	IN
LHCLAY		48,608	-5,622	-0.63	42,249	-5,687	-0.72	IN
LHHV66	X	9,201	-45,030	-5.06	9,092	-38,844	-4.92	XX
LQUVXV		68,100	13,869	1.56	60,051	12,115	1.54	IN
X4EHQG		44,989	-9,242	-1.04	38,642	-9,294	-1.18	IM
ZHLJCH		49,195	-5,036	-0.57	44,922	-3,014	-0.38	IN

Summary Statistics

	Sample B15	Sample B16
Grand Means	54,230.7 psi	47,935.7 psi
Stnd Dev Btwn Labs	8,905.0 psi	7,887.4 psi

Statistics based on 7 of 8 reporting participants

Sample B15: LDPE & Sample B16: LDPE

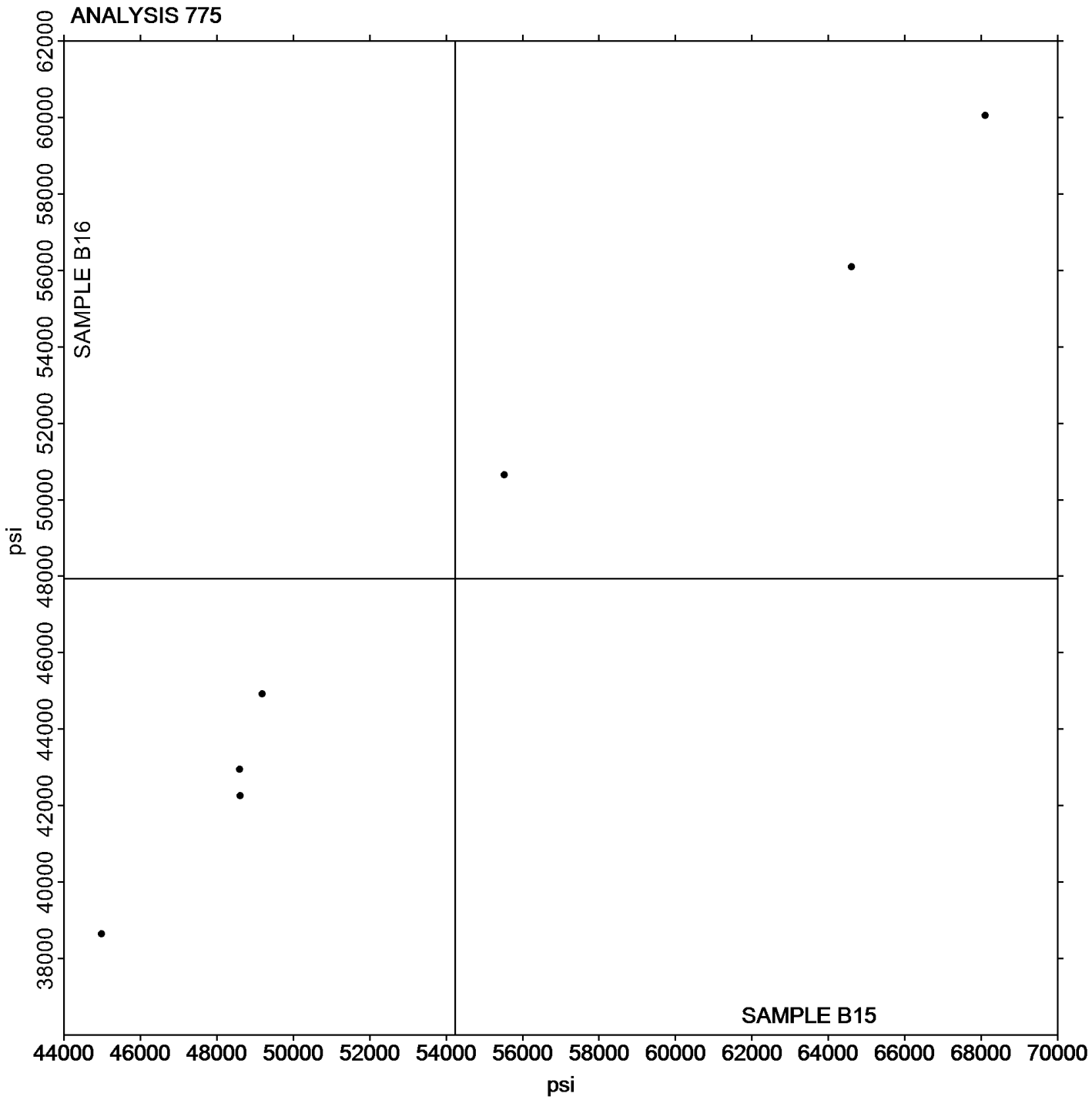
Comments on Assigned Data Flags for Test #775

LHHV66 (X) - Extreme data.

Key to Instrument Codes Reported by Participants

IM Instru-Met Instruments
IN Instron
XX Instrument manufacturer not specified by lab

Grand Mean Sample B15: 54,230.74 psi Grand Mean Sample B16: 47,935.73 psi



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 B15 Lab Mean	Sample B15 Diff from Grand Mean	Sample B15 CPV	Sample B16 Lab Mean	Sample B16 Diff from Grand Mean	Sample B16 CPV	Instr Code
2T3F2L		52,753	8,922	1.39	46,252	6,864	1.12	IN
4C9U9Q		39,607	-4,224	-0.66	35,910	-3,478	-0.57	IN
DYUPDG		44,870	1,039	0.16	40,200	812	0.13	IN
LHCLAY		40,473	-3,358	-0.52	35,656	-3,733	-0.61	IN
LQUVXV		52,466	8,635	1.34	48,998	9,610	1.57	IN
X4EHQG		36,945	-6,886	-1.07	32,320	-7,069	-1.15	IM
ZHLJCH		39,702	-4,129	-0.64	36,382	-3,006	-0.49	IN

Summary Statistics

	Sample B15	Sample B16
Grand Means	43,831.0 psi	39,388.4 psi
Stnd Dev Btwn Labs	6,439.9 psi	6,125.9 psi

Statistics based on 7 of 7 reporting participants

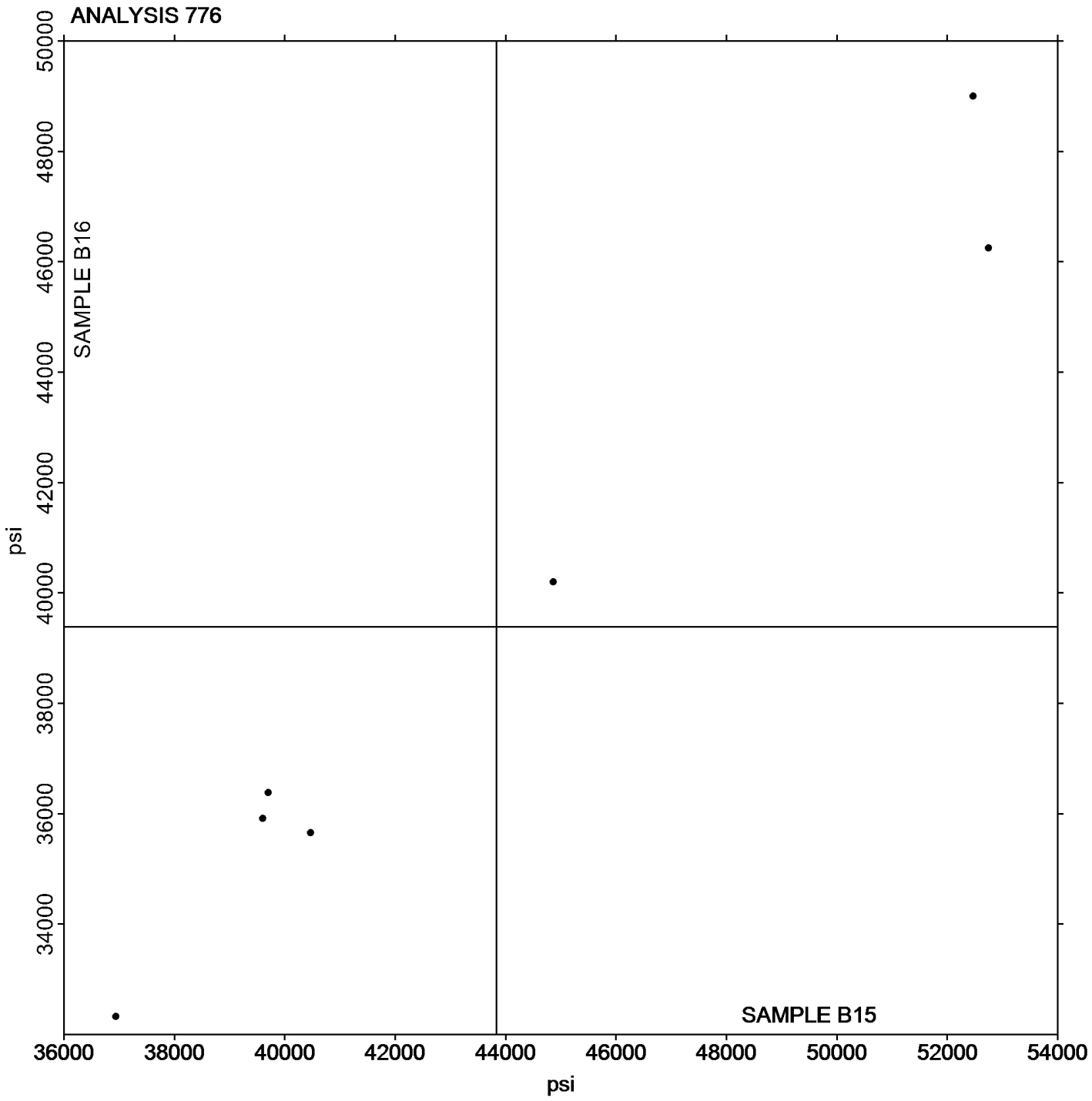
Sample B15: LDPE & Sample B16: LDPE

Key to Instrument Codes Reported by Participants

IM Instru-Met Instruments

IN Instron

Grand Mean Sample B15: 43,830.96 psi Grand Mean Sample B16: 39,388.36 psi



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 P15 Lab Mean	Sample P15 Diff from Grand Mean	Sample P15 CPV	Sample P16 Lab Mean	Sample P16 Diff from Grand Mean	Sample P16 CPV	Instr Code
4C9U9Q		0.3814	0.0772	1.34	0.4292	0.1073	1.35	TM
6GXGVJ		0.3770	0.0728	1.27	0.4358	0.1139	1.43	LI
B7ZKJJ		0.3320	0.0278	0.48	0.3940	0.0721	0.90	SA
DYUPDG		0.2504	-0.0538	-0.93	0.2988	-0.0231	-0.29	TH
FN6M3Y		0.2310	-0.0732	-1.27	0.3132	-0.0087	-0.11	IG
LHCLAY		0.2530	-0.0512	-0.89	0.2880	-0.0339	-0.43	MI
LQUVXV		0.2776	-0.0266	-0.46	0.3116	-0.0103	-0.13	TH
NZ72LU		0.2988	-0.0054	-0.09	0.3034	-0.0185	-0.23	TH
U3BR8Q		0.3732	0.0690	1.20	0.1702	-0.1517	-1.90	XX
X4EHQG		0.2672	-0.0370	-0.64	0.2750	-0.0469	-0.59	TH
YL9PKT	X	0.7045	0.4004	6.96	0.5810	0.2591	3.25	TO

Summary Statistics

	Sample P15	Sample P16
Grand Means	0.30416 COF	0.32192 COF
Stnd Dev Btwn Labs	0.05752 COF	0.07965 COF

Statistics based on 10 of 11 reporting participants

Sample P15: LDPE & Sample P16: LDPE

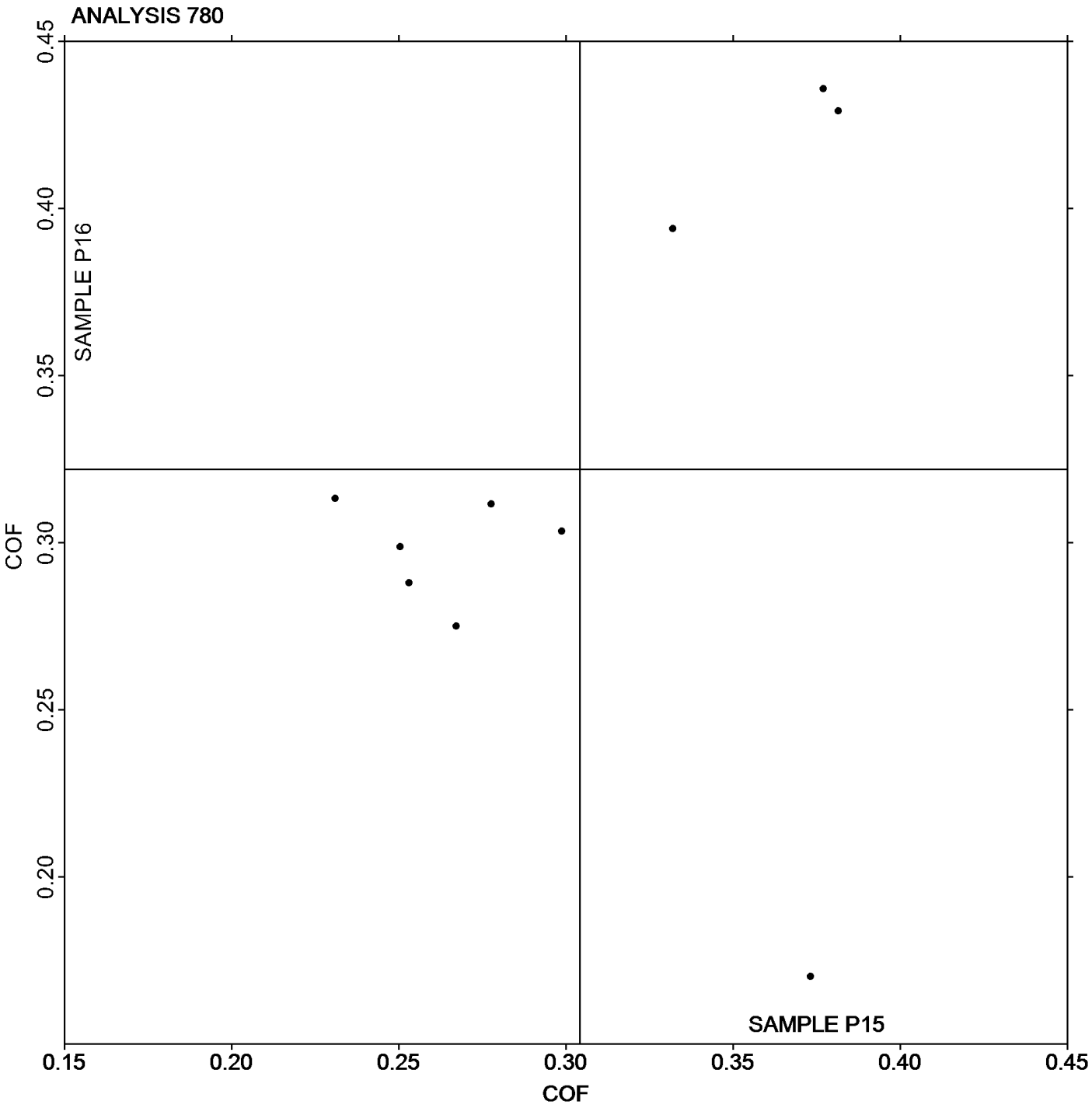
Comments on Assigned Data Flags for Test #780

YL9PKT (X) - Data for both samples are high. Inconsistent within the determinations of sample P15.

Key to Instrument Codes Reported by Participants

IG	Instron	LI	Lloyd Instruments
MI	MTS Insight	SA	Shimadzu Autograph
TH	Thwing Albert Friction/Peel Tester Model 225-1	TM	TMI Slip and Friction Tester
TO	Tinius Olsen	XX	Instrument make/model not specified by lab

Grand Mean Sample P15: 0.30416 COF Grand Mean Sample P16: 0.32192 COF



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 P15 Lab Mean	Sample P15 Diff from Grand Mean	Sample P15 CPV	Sample P16 Lab Mean	Sample P16 Diff from Grand Mean	Sample P16 CPV	Instr Code
4C9U9Q		0.3028	0.0379	1.02	0.3432	0.0519	0.73	TM
6GXGVJ		0.2512	-0.0137	-0.37	0.2832	-0.0081	-0.11	XX
B7ZKJJ		0.3300	0.0651	1.75	0.4100	0.1187	1.66	SA
DYUPDG		0.2464	-0.0185	-0.50	0.2976	0.0063	0.09	TH
FN6M3Y		0.2016	-0.0633	-1.71	0.2970	0.0057	0.08	IG
LHCLAY		0.2526	-0.0123	-0.33	0.2852	-0.0061	-0.09	MI
LQUVXV		0.2498	-0.0151	-0.41	0.2948	0.0035	0.05	TH
NZ72LU		0.2578	-0.0071	-0.19	0.2974	0.0061	0.08	TH
U3BR8Q		0.3050	0.0401	1.08	0.1216	-0.1697	-2.38	XX
X4EHQG		0.2522	-0.0127	-0.34	0.2834	-0.0079	-0.11	TH
YL9PKT	X	0.6202	0.3553	9.57	0.6997	0.4084	5.72	TO

Summary Statistics

	Sample P15	Sample P16
Grand Means	0.26494 COF	0.29134 COF
Stnd Dev Btwn Labs	0.03713 COF	0.07139 COF

Statistics based on 10 of 11 reporting participants

Sample P15: LDPE & Sample P16: LDPE

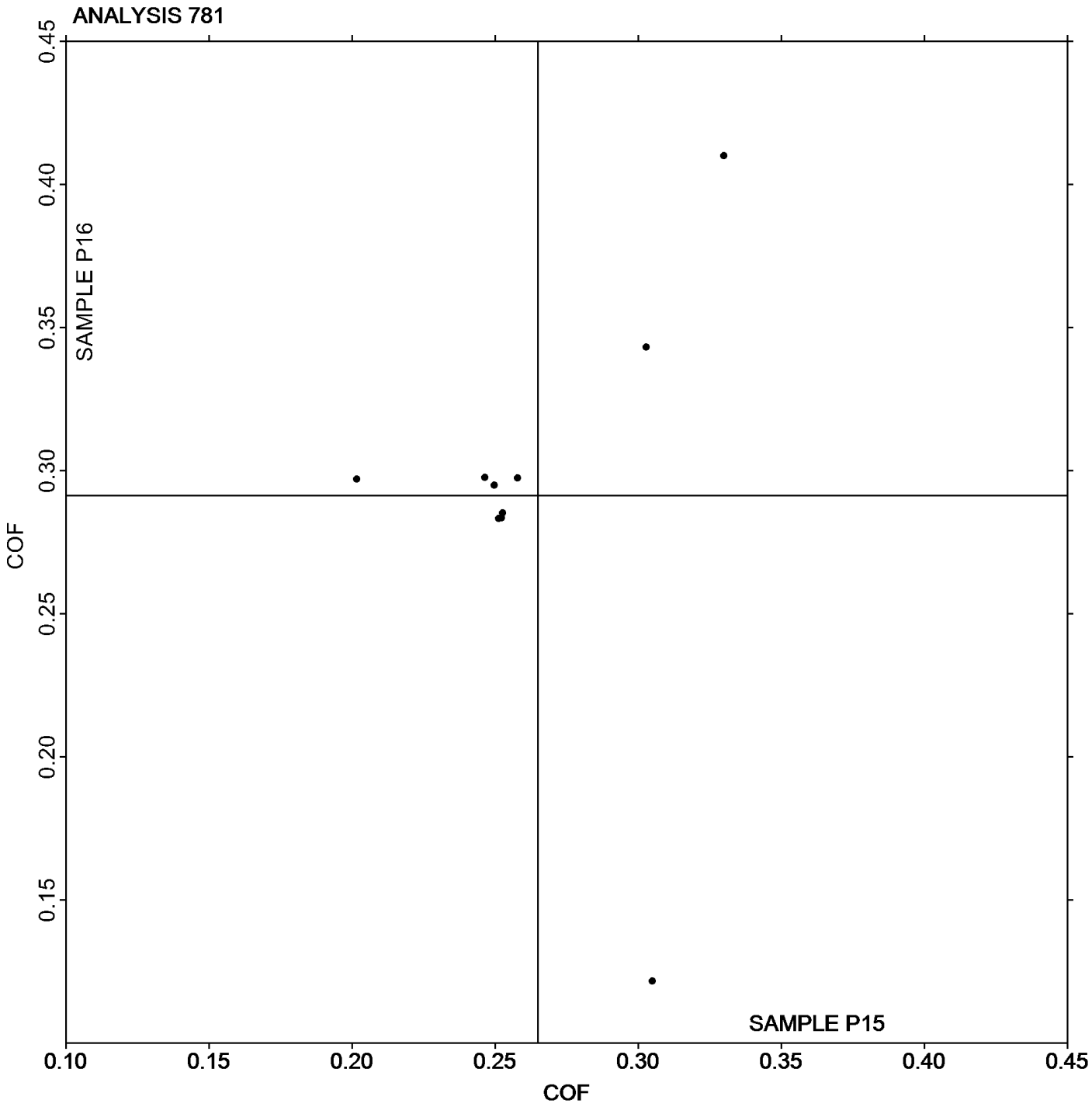
Comments on Assigned Data Flags for Test #781

YL9PKT (X) - Data for both samples are high.

Key to Instrument Codes Reported by Participants

- IG Instron
- MI MTS Insight
- SA Shimadzu Autograph
- TH Thwing Albert Friction/Peel Tester Model 225-1
- TM TMI Slip and Friction Tester
- TO Tinius Olsen
- XX Instrument make/model not specified by lab

Grand Mean Sample P15: 0.26494 COF Grand Mean Sample P16: 0.29134 COF



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 Q15 Lab Mean	Sample Q15 Diff from Grand Mean	Sample Q15 CPV	Sample Q16 Lab Mean	Sample Q16 Diff from Grand Mean	Sample Q16 CPV	Instr Code
4C9U9Q		470.8	56.1	1.52	228.9	-56.0	-1.21	TM
C9LNRG		440.2	25.5	0.69	223.4	-61.5	-1.33	SZ
DYUPDG		382.6	-32.1	-0.87	303.6	18.7	0.41	TE
L9LAQQ		413.1	-1.6	-0.04	285.8	0.9	0.02	TE
LHCLAY		373.4	-41.3	-1.12	300.2	15.3	0.33	TE
LHHV66		373.0	-41.7	-1.13	280.9	-4.0	-0.09	TE
NZ72LU		450.1	35.4	0.96	370.9	86.0	1.86	TA
X4EHQG		414.4	-0.3	-0.01	285.5	0.6	0.01	EM

Summary Statistics

	Sample Q15	Sample Q16
Grand Means	414.71 grams-force	284.90 grams-force
Stnd Dev Btwn Labs	36.88 grams-force	46.16 grams-force

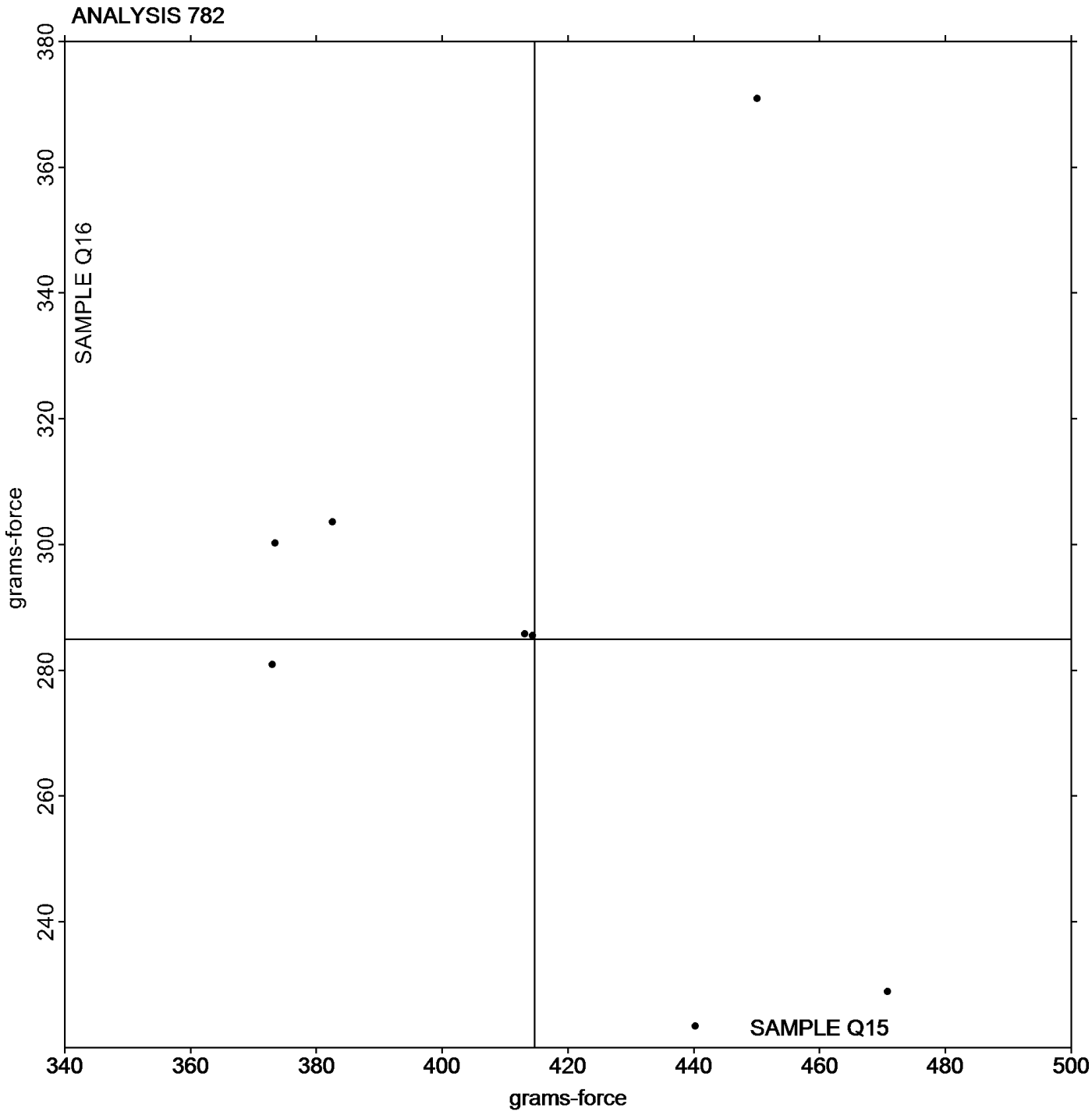
Statistics based on 8 of 8 reporting participants

Sample Q15: LDPE & Sample Q16: LDPE

Key to Instrument Codes Reported by Participants

EM Elmendorf Tear Tester
SZ Textest FX 3700
TA Thwing-Albert
TE Thwing-Albert Pro Tear
TM TMI No. 83-1100

Grand Mean Sample Q15: 414.71 grams-force Grand Mean Sample Q16: 284.90 grams-force



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 D15 Lab Mean	Sample D15 Diff from Grand Mean	Sample D15 CPV	Sample D16 Lab Mean	Sample D16 Diff from Grand Mean	Sample D16 CPV	Instr Code
4C9U9Q		16.463	-0.473	-0.48	17.738	-0.625	-0.57	BJ
4Y3EPG		17.294	0.358	0.37	17.869	-0.494	-0.45	BJ
83DN9P		16.875	-0.061	-0.06	18.713	0.350	0.32	BJ
8ATAF8		17.480	0.544	0.56	17.716	-0.646	-0.59	XR
C8Q3ZB		18.025	1.089	1.11	18.313	-0.050	-0.05	BJ
C9LNRG		17.013	0.077	0.08	18.400	0.037	0.03	BJ
CKTQR6		17.800	0.864	0.88	18.325	-0.038	-0.03	BJ
CYFZEA		16.738	-0.198	-0.20	18.113	-0.250	-0.23	BJ
DJDR9F		15.838	-1.098	-1.12	17.850	-0.513	-0.46	BJ
DYUPDG		16.963	0.027	0.03	18.138	-0.225	-0.20	BJ
FJNG44		17.225	0.289	0.30	17.925	-0.438	-0.40	BJ
JL2BF7		17.406	0.471	0.48	18.791	0.429	0.39	XX
L2NHHW		15.375	-1.561	-1.59	17.775	-0.588	-0.53	BJ
L4F8DB		16.929	-0.007	-0.01	18.028	-0.335	-0.30	XR
L9LAQQ	*	13.901	-3.034	-3.10	15.670	-2.693	-2.44	KM
LHCLAY		16.988	0.052	0.05	17.838	-0.525	-0.48	BJ
LQUVXV		16.588	-0.348	-0.36	18.788	0.425	0.38	BJ
LRNL4A		16.763	-0.173	-0.18	18.288	-0.075	-0.07	BJ
NZ72LU		17.805	0.869	0.89	20.765	2.402	2.18	XR
RHFYH3		16.950	0.014	0.01	19.363	1.000	0.91	BJ
VE79KX		18.733	1.797	1.83	21.316	2.954	2.67	XR
X4EHQG		17.435	0.499	0.51	18.261	-0.101	-0.09	BJ

Summary Statistics

	Sample D15	Sample D16
Grand Means	16.9356 Percent	18.3627 Percent
Stnd Dev Btwn Labs	0.9801 Percent	1.1042 Percent

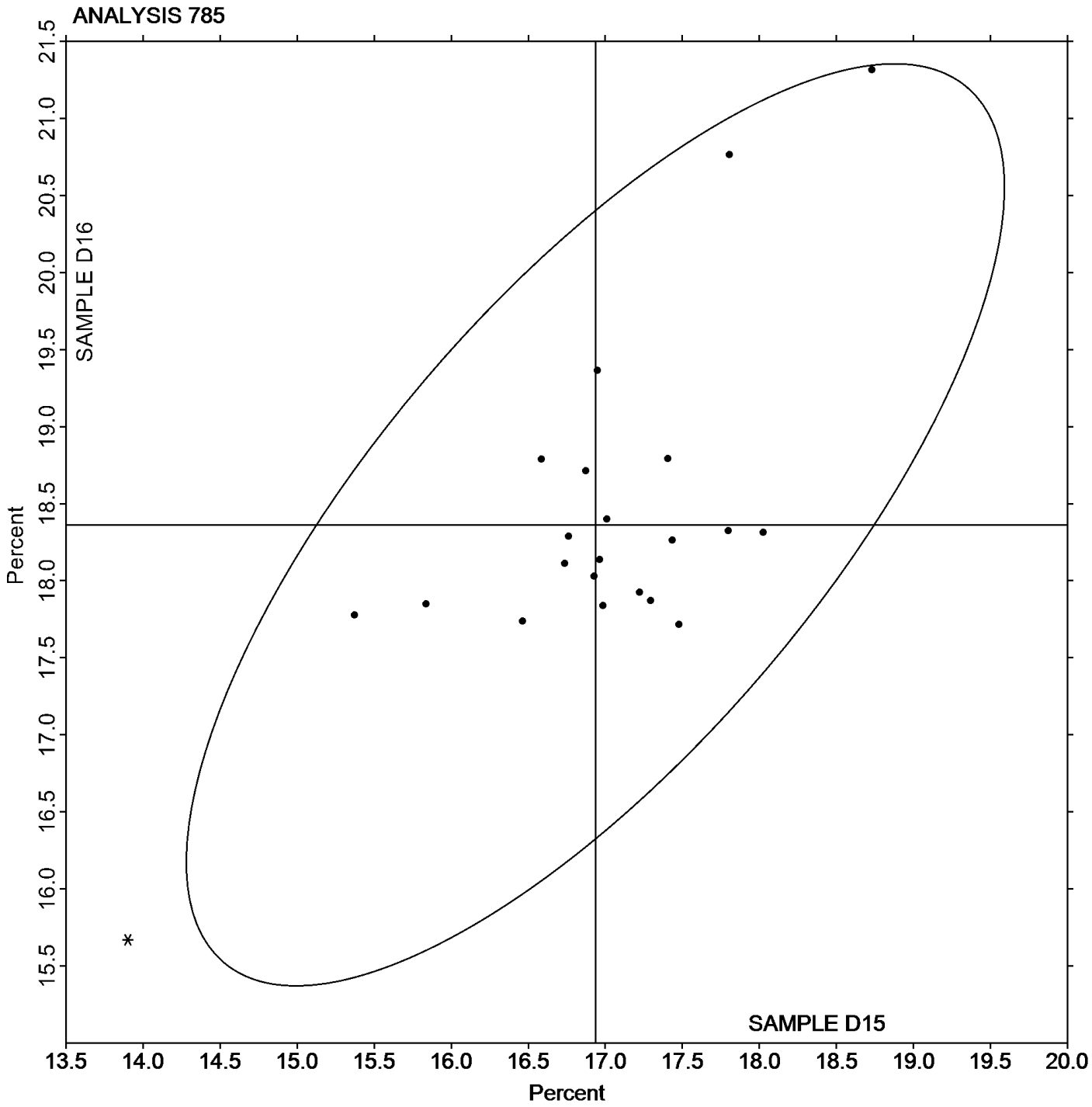
Statistics based on 22 of 22 reporting participants

Sample D15: LDPE & Sample D16: LDPE

Key to Instrument Codes Reported by Participants

BJ	BYK-Gardner Haze-Gard Plus/i	KM	Konica Minolta
XR	X-Rite Spectrocolorimeter (any model)	XX	Instrument make/model not specified by lab

Grand Mean Sample D15: 16.936 Percent Grand Mean Sample D16: 18.363 Percent



WebCode	Data Flag	Sample D15 Lab Mean	Sample D15 Diff from Grand Mean	Sample D15 CPV	Sample D16 Lab Mean	Sample D16 Diff from Grand Mean	Sample D16 CPV	Instr Code
4C9U9Q		93.51	0.56	0.59	93.51	0.71	0.71	BJ
4Y3EPG		93.00	0.04	0.04	92.80	-0.01	-0.01	BJ
83DN9P		93.66	0.71	0.75	93.59	0.78	0.79	BJ
8ATAF8		91.28	-1.67	-1.76	91.34	-1.47	-1.48	XR
A6UVKG		91.21	-1.74	-1.84	91.04	-1.77	-1.78	BJ
C8Q3ZB		93.55	0.60	0.63	93.53	0.72	0.72	BJ
C9LNRG		91.80	-1.15	-1.22	91.68	-1.13	-1.14	BJ
CKTQR6		93.70	0.75	0.79	93.66	0.86	0.86	BJ
CYFZEA		93.15	0.20	0.21	93.45	0.64	0.65	BJ
DJDR9F		93.28	0.32	0.34	93.14	0.33	0.33	BJ
DYUPDG		92.25	-0.70	-0.74	92.09	-0.72	-0.72	BJ
FJNG44		93.26	0.31	0.33	93.24	0.43	0.43	BJ
JL2BF7	*	93.03	0.07	0.08	91.99	-0.82	-0.83	XX
L2NHHW		94.50	1.55	1.63	94.50	1.69	1.71	BJ
L4F8DB		91.51	-1.45	-1.53	91.33	-1.48	-1.49	XR
LHCLAY		92.79	-0.17	-0.17	92.64	-0.17	-0.17	BJ
LQUVXV		93.59	0.63	0.67	92.69	-0.12	-0.12	BJ
RHFYH3		94.11	1.16	1.22	94.06	1.26	1.27	BJ
VE79KX		92.18	-0.77	-0.81	92.18	-0.63	-0.63	XR
X4EHQG		93.70	0.75	0.79	93.70	0.89	0.90	BJ

Summary Statistics

	Sample D15	Sample D16
Grand Means	92.953 Percent	92.806 Percent
Stnd Dev Btwn Labs	0.947 Percent	0.992 Percent

Statistics based on 20 of 20 reporting participants

Sample D15: LDPE & Sample D16: LDPE

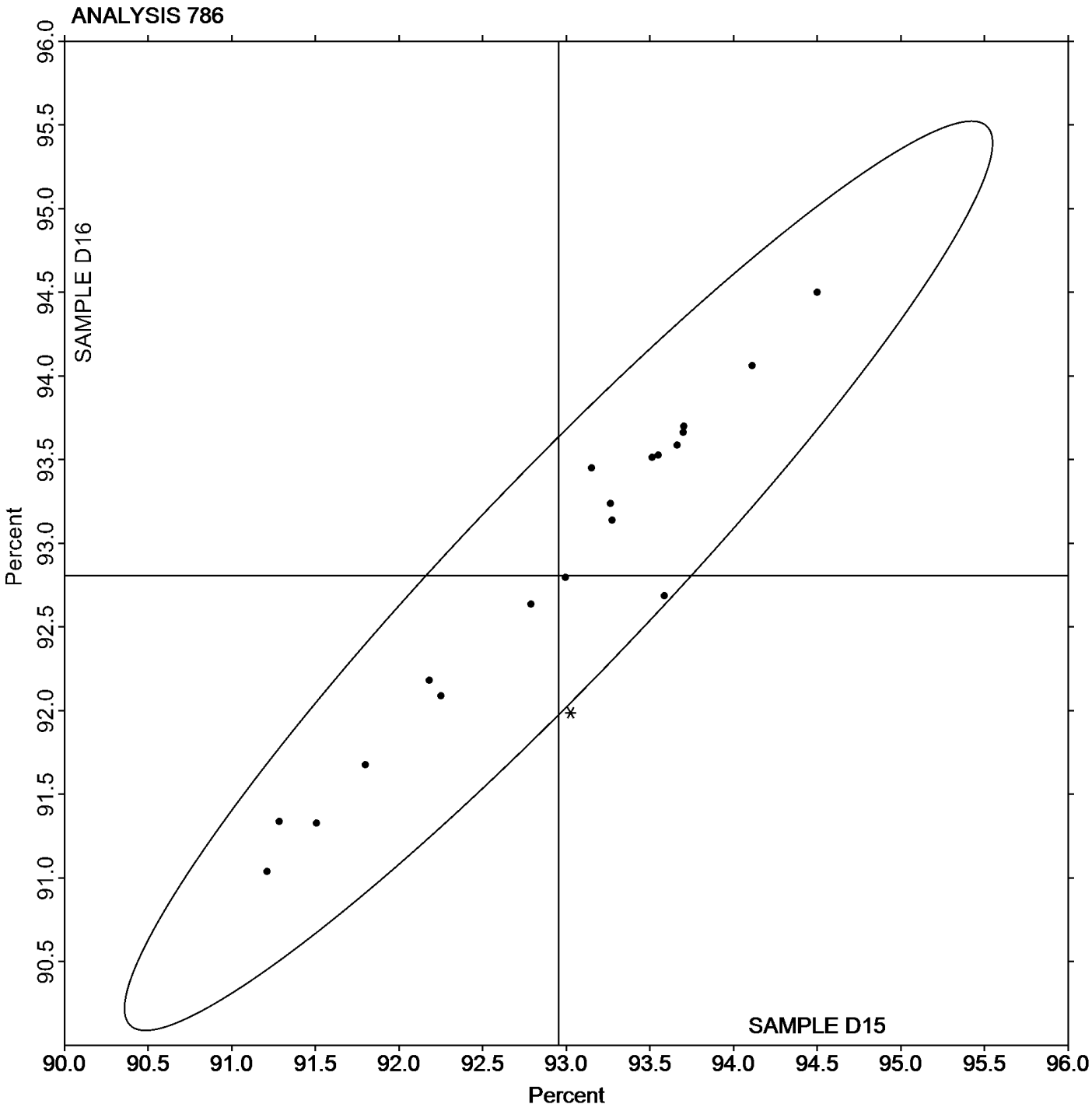
Key to Instrument Codes Reported by Participants

BJ BYK-Gardner Haze-Gard Plus/i

XR X-Rite Spectrocolorimeter (any model)

XX Instrument make/model not specified by lab

Grand Mean Sample D15: 92.953 Percent Grand Mean Sample D16: 92.806 Percent



WebCode	Data Flag	Sample S15 Lab Mean	Sample S15 Diff from Grand Mean	Sample S15 CPV	Sample S16 Lab Mean	Sample S16 Diff from Grand Mean	Sample S16 CPV	Instr Code
3HZHTC		10.48	0.37	0.84	10.19	0.14	0.37	BA
4A43GD		10.17	0.06	0.13	10.21	0.16	0.42	IN
4Y3EPG		9.88	-0.23	-0.52	9.78	-0.27	-0.71	TY
889H7Q		9.44	-0.67	-1.52	9.55	-0.50	-1.32	TM
94GTBB		10.25	0.15	0.33	10.08	0.03	0.09	CE
9YLYDA		9.82	-0.29	-0.66	9.77	-0.28	-0.74	TO
BF4UQ9		10.29	0.18	0.40	10.03	-0.02	-0.05	DS
C8P6PF		10.28	0.17	0.39	10.50	0.45	1.19	WZ
CLNAU7		9.91	-0.20	-0.46	9.82	-0.23	-0.61	TO
CYZKJG		10.18	0.07	0.16	10.17	0.12	0.32	WZ
DYUPDG		10.62	0.51	1.17	10.48	0.43	1.12	CE
EFZ9TJ		9.71	-0.39	-0.90	9.88	-0.17	-0.44	XX
EK73MF	X	1.26	-8.85	-20.09	1.29	-8.76	-22.97	TO
FLUXK8	X	6.97	-3.14	-7.14	6.83	-3.22	-8.43	XX
FN6M3Y		10.01	-0.10	-0.22	9.46	-0.59	-1.54	CE
GLFQ2C		9.83	-0.28	-0.63	10.27	0.22	0.57	TO
GPXT4B		9.52	-0.59	-1.34	9.94	-0.11	-0.28	TO
KAP9U9		9.87	-0.24	-0.54	9.48	-0.57	-1.49	TO
L9LAQQ	X	219.90	209.79	476.33	220.51	210.46	551.75	XX
LHCLAY		10.68	0.57	1.30	10.54	0.49	1.28	TO
LQUVXV		10.25	0.14	0.32	10.34	0.29	0.76	TO
LRNL4A		10.55	0.44	1.00	10.59	0.54	1.40	WZ
MKHDTY		9.73	-0.38	-0.85	9.55	-0.50	-1.30	TO
NU6RF3		10.32	0.21	0.48	10.05	0.00	0.00	CS
P2FFKN		9.78	-0.33	-0.75	9.51	-0.54	-1.41	XX
TEVR9T		9.89	-0.22	-0.49	9.99	-0.06	-0.16	TO
U6JV4M		9.99	-0.12	-0.26	9.92	-0.13	-0.34	TM
UWTAXN	*	11.05	0.95	2.15	10.33	0.28	0.74	TM
VYVGUL		9.79	-0.32	-0.72	9.62	-0.43	-1.12	TO
XQ7TWL		10.00	-0.11	-0.25	9.99	-0.06	-0.16	TY
Y7HQER	*	9.07	-1.04	-2.35	9.60	-0.45	-1.18	BA
YL9PKT		10.98	0.87	1.97	10.81	0.76	1.99	WZ
YMQHJH		10.46	0.35	0.79	10.54	0.49	1.29	RR
ZQLWGR		10.57	0.46	1.04	10.55	0.50	1.31	CE

Summary Statistics	Sample S15	Sample S16
Grand Means	10.109 ft.lbf/in	10.050 ft.lbf/in
Stnd Dev Btwn Labs	0.440 ft.lbf/in	0.381 ft.lbf/in

Statistics based on 31 of 34 reporting participants

Sample S15: ABS/PC & Sample S16: ABS/PC

Comments on Assigned Data Flags for Test #790

EK73MF (X) - Extreme data.

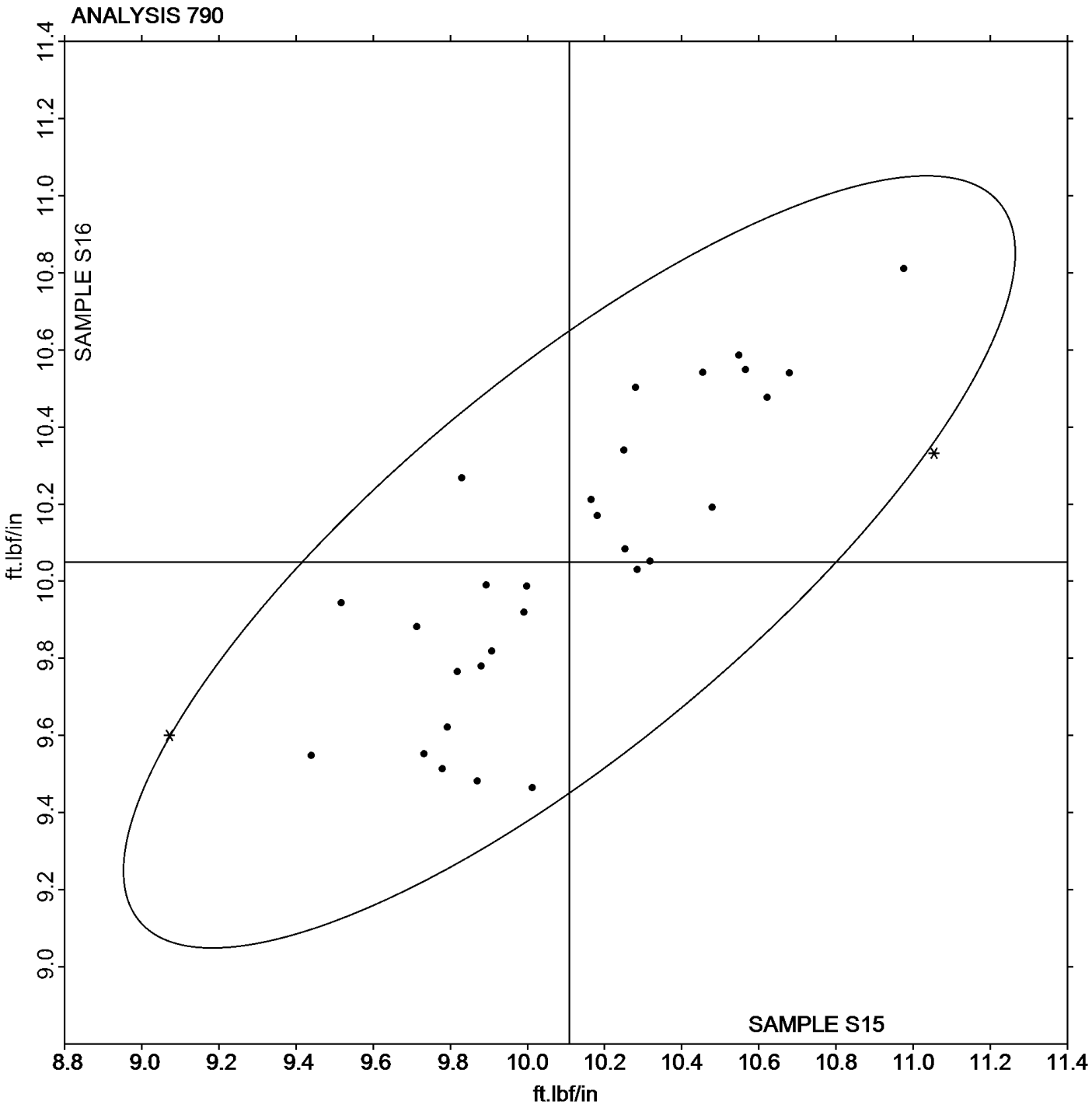
FLUXK8 (X) - Data for both samples are low. Possible Systematic Error. Inconsistent within the determinations of both samples.

L9LAQQ (X) - Extreme data.

Key to Instrument Codes Reported by Participants

BA	Baldwin	CE	Ceast
CS	CSI	DS	Dynisco
IN	Instron	RR	Ray-Ran Polymer Testing Equipment
TM	TMI	TO	Tinius Olsen
TY	Toyoseiki	WZ	Zwick
XX	Instrument manufacturer not specified by lab		

Grand Mean Sample S15: 10.109 ft.lbf/in Grand Mean Sample S16: 10.050 ft.lbf/in



WebCode	Data Flag	Sample Z15 Lab Mean	Sample Z15 Diff from Grand Mean	Sample Z15 CPV	Sample Z16 Lab Mean	Sample Z16 Diff from Grand Mean	Sample Z16 CPV	Instr Code
4Y3EPG		8.59	0.08	0.24	8.67	0.15	0.40	XX
6DDNKG	X	10.40	1.90	5.64	10.91	2.39	6.50	WZ
889H7Q		8.80	0.29	0.87	8.84	0.32	0.88	XX
8DTHJH		8.48	-0.02	-0.07	8.43	-0.09	-0.25	XX
A8V3KK		8.49	-0.01	-0.04	8.46	-0.06	-0.16	CE
AY66BE		8.32	-0.19	-0.55	8.23	-0.29	-0.80	IN
BVHZYM		8.20	-0.31	-0.91	8.14	-0.38	-1.03	CE
C8P6PF		8.83	0.32	0.96	8.88	0.36	0.98	WZ
C8Q3ZB		9.25	0.74	2.22	9.37	0.85	2.31	WZ
CLNAU7		8.33	-0.17	-0.52	8.27	-0.25	-0.69	TO
CYZKJG		8.01	-0.49	-1.47	8.00	-0.52	-1.42	WZ
D4NJD3		8.42	-0.09	-0.25	8.44	-0.08	-0.22	TO
DCDE47		8.36	-0.15	-0.45	8.27	-0.25	-0.68	IN
DYUPDG		8.97	0.47	1.39	8.97	0.45	1.21	CE
DZP6PD		8.34	-0.17	-0.51	8.32	-0.20	-0.55	TO
EFZ9TJ	X	6.66	-1.85	-5.50	6.73	-1.79	-4.86	XX
F8T9K2		8.49	-0.02	-0.05	8.48	-0.04	-0.11	TO
FBC4L9		8.32	-0.19	-0.55	8.38	-0.14	-0.38	TO
FLUXK8		7.88	-0.63	-1.88	7.99	-0.53	-1.45	XX
FTD4HE		8.46	-0.04	-0.13	8.21	-0.31	-0.85	CE
KGM233		8.12	-0.39	-1.15	8.40	-0.12	-0.34	CE
KGRBYA		8.60	0.09	0.27	8.59	0.07	0.19	CE
L7J3T9		8.30	-0.21	-0.63	8.17	-0.35	-0.94	TO
LHCLAY		8.50	-0.01	-0.02	8.41	-0.11	-0.31	TO
LQUVXV		8.51	0.00	0.01	8.61	0.09	0.24	TO
NDVZDW		9.12	0.61	1.82	9.10	0.58	1.57	XX
QCA7M8		9.25	0.74	2.20	9.23	0.71	1.93	WZ
U2HU26		8.16	-0.35	-1.03	8.26	-0.26	-0.70	TO
VXJV6K		8.55	0.04	0.11	8.53	0.01	0.01	TO
W6VFHG	*	8.76	0.25	0.74	9.14	0.62	1.69	CE
WMCC7M		8.61	0.10	0.30	8.72	0.20	0.53	WZ
XQ7TWL	X	45.09	36.59	108.92	44.75	36.23	98.50	TY
XU72ZW		8.20	-0.30	-0.90	8.12	-0.41	-1.10	TO

Summary Statistics	Sample Z15	Sample Z16
Grand Means	8.508 kJ/m^2	8.521 kJ/m^2
Stnd Dev Btwn Labs	0.336 kJ/m^2	0.368 kJ/m^2

Statistics based on 30 of 33 reporting participants

Sample Z15: HIPS & Sample Z16: HIPS

Comments on Assigned Data Flags for Test #791

EFZ9TJ (X) - Data for both samples are low. Possible Systematic Error.

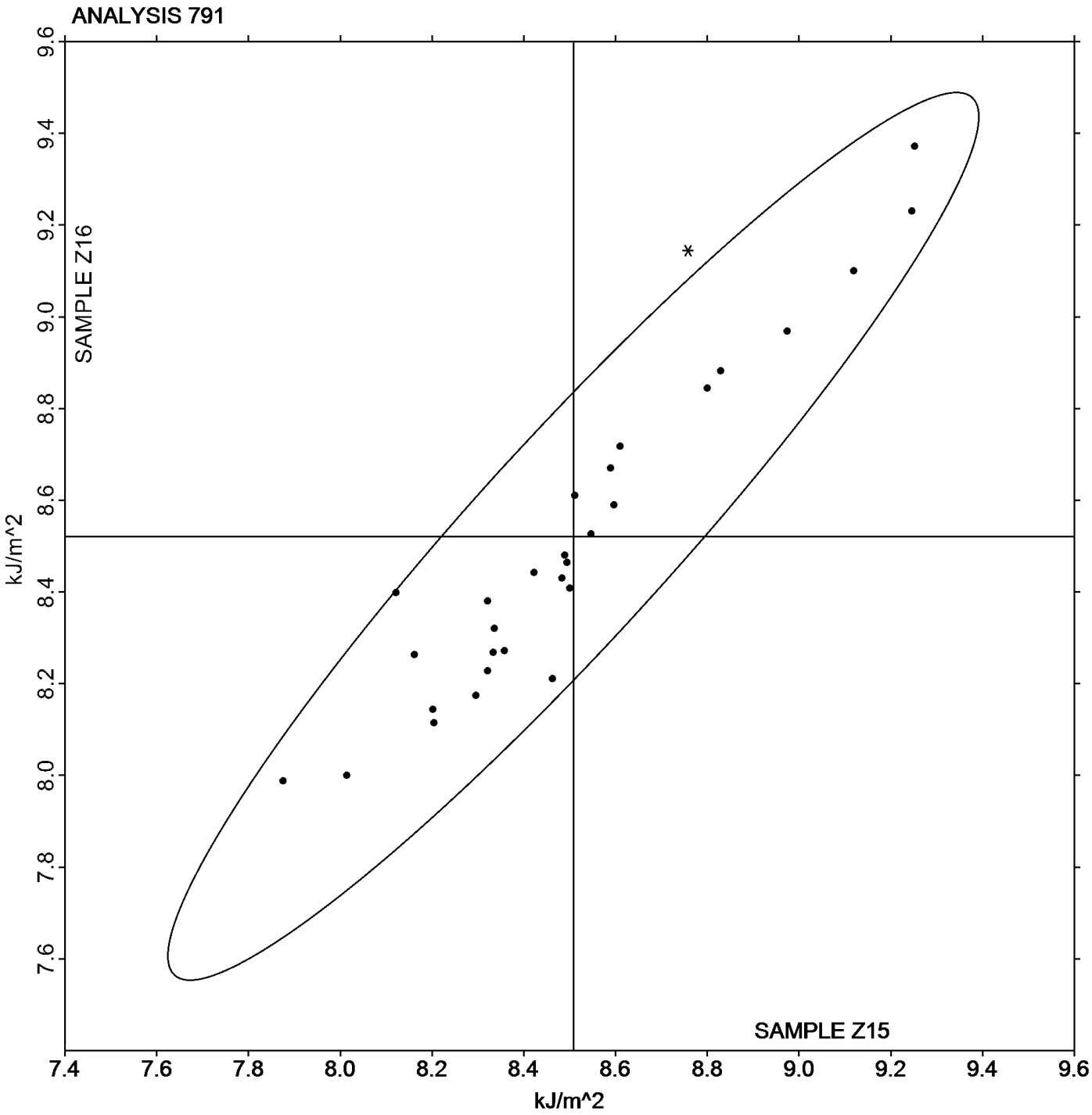
XQ7TWL (X) - Extreme data.

6DDNKG (X) - Data for both samples are high. Possible Systematic Error. Inconsistent within the determinations of both samples.

Key to Instrument Codes Reported by Participants

CE	Ceast	IN	Instron
TO	Tinius Olsen	TY	Toyoseiki
WZ	Zwick	XX	Instrument manufacturer not specified by lab

Grand Mean Sample Z15: 8.5079 kJ/m^2 Grand Mean Sample Z16: 8.5213 kJ/m^2



WebCode	Data Flag	Sample M15 Lab Mean	Sample M15 Diff from Grand Mean	Sample M15 CPV	Sample M16 Lab Mean	Sample M16 Diff from Grand Mean	Sample M16 CPV	Instr Code
37MHWJ	*	30.94	-15.45	-2.99	30.98	-15.44	-3.14	CE
3HZHTC		52.19	5.81	1.12	51.50	5.08	1.03	XX
4NMKEN		44.34	-2.04	-0.39	44.14	-2.28	-0.46	WZ
4Y3EPG		45.09	-1.29	-0.25	44.75	-1.67	-0.34	TY
6CH7HF		44.89	-1.50	-0.29	44.35	-2.08	-0.42	TM
6DDNKG		48.37	1.98	0.38	47.28	0.86	0.18	WZ
7B8G2N		47.27	0.88	0.17	47.58	1.16	0.24	TO
7H9TWL		53.79	7.40	1.43	53.73	7.30	1.49	TM
889H7Q		48.03	1.65	0.32	49.45	3.03	0.62	XX
8DTHJH		48.98	2.59	0.50	50.18	3.76	0.77	WZ
94GTBB	*	32.92	-13.46	-2.61	34.40	-12.02	-2.45	CE
9YLYDA		47.32	0.94	0.18	46.34	-0.08	-0.02	TO
A8V3KK		43.22	-3.17	-0.61	44.32	-2.11	-0.43	CE
BVHZYM		44.24	-2.15	-0.42	44.72	-1.70	-0.35	CE
C8P6PF		48.87	2.49	0.48	50.32	3.90	0.79	WZ
C8Q3ZB		45.65	-0.74	-0.14	45.13	-1.29	-0.26	WZ
CYZKJG		47.98	1.59	0.31	48.38	1.96	0.40	WZ
D4NJD3		47.44	1.06	0.21	47.58	1.16	0.24	TO
DCDE47		46.95	0.56	0.11	46.67	0.25	0.05	IN
DYUPDG		55.70	9.32	1.80	54.00	7.58	1.54	CE
EFZ9TJ	*	32.86	-13.52	-2.62	33.88	-12.54	-2.55	XX
F8T9K2		49.05	2.67	0.52	48.57	2.15	0.44	TO
FLUXK8		43.56	-2.82	-0.55	42.50	-3.92	-0.80	XX
FTD4HE		51.47	5.09	0.99	49.19	2.77	0.56	CE
GPXT4B		47.76	1.38	0.27	46.27	-0.15	-0.03	TO
KGRBYA		50.99	4.60	0.89	51.57	5.15	1.05	CE
L7J3T9	X	52.38	5.99	1.16	55.68	9.26	1.89	TO
LHCLAY		47.20	0.82	0.16	47.54	1.12	0.23	TO
LQUVXV		50.26	3.88	0.75	51.59	5.16	1.05	TO
LRNL4A		47.49	1.11	0.21	48.97	2.55	0.52	WZ
LXPXY8		41.00	-5.39	-1.04	41.29	-5.13	-1.05	PO
MX4Q7U		48.64	2.26	0.44	48.12	1.70	0.35	WZ
NDVZDW		50.61	4.23	0.82	50.47	4.05	0.83	WZ
QCA7M8		47.40	1.02	0.20	46.50	0.08	0.02	WZ
REXXE4		49.53	3.15	0.61	47.92	1.50	0.30	TO

WebCode	Data Flag	Sample M15 Lab Mean	Sample M15 Diff from Grand Mean	Sample M15 CPV	Sample M16 Lab Mean	Sample M16 Diff from Grand Mean	Sample M16 CPV	Instr Code
T4TAXQ		54.05	7.67	1.48	53.54	7.12	1.45	WZ
TEQCZY		46.13	-0.25	-0.05	44.25	-2.17	-0.44	XX
U2HU26		45.08	-1.30	-0.25	45.43	-0.99	-0.20	TO
VXJV6K		47.31	0.92	0.18	47.38	0.96	0.20	TO
VYVGUL		46.16	-0.22	-0.04	48.22	1.80	0.37	TO
W6VFHG		40.75	-5.64	-1.09	41.77	-4.65	-0.95	CE
WMCC7M		40.95	-5.44	-1.05	41.47	-4.95	-1.01	WZ
ZQLWGR		45.71	-0.68	-0.13	47.46	1.04	0.21	CE

Summary Statistics

	Sample M15	Sample M16
Grand Means	46.384 kJ/m^2	46.421 kJ/m^2
Stnd Dev Btwn Labs	5.165 kJ/m^2	4.909 kJ/m^2

Statistics based on 42 of 43 reporting participants

Sample M15: ABS/PC & Sample M16: ABS/PC

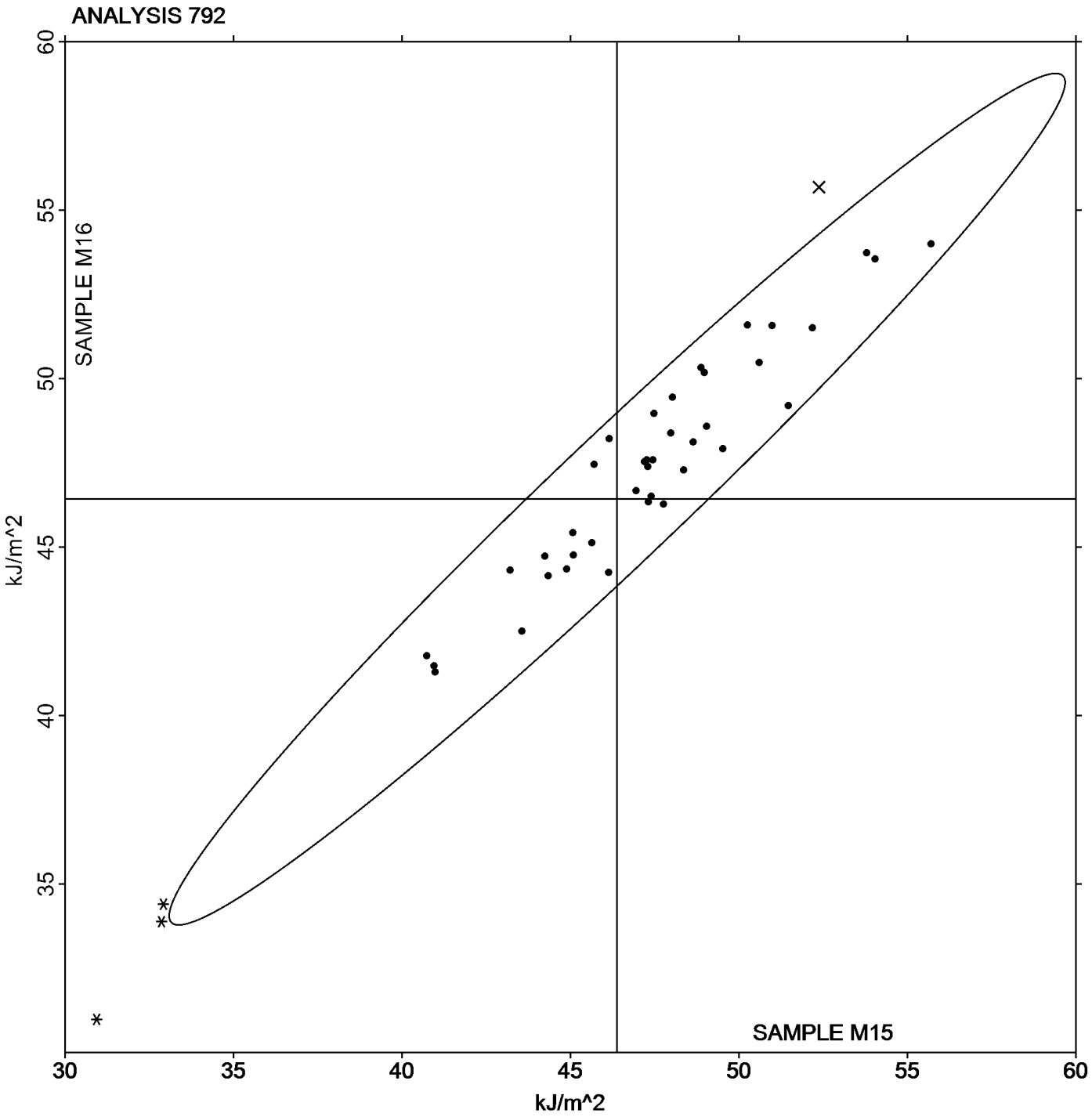
Comments on Assigned Data Flags for Test #792

L7J3T9 (X) - Inconsistent in testing between samples.

Key to Instrument Codes Reported by Participants

CE	Ceast	IN	Instron
PO	POE	TM	TMI
TO	Tinius Olsen	TY	Toyoseiki
WZ	Zwick	XX	Instrument manufacturer not specified by lab

Grand Mean Sample M15: 46.384 kJ/m^2 Grand Mean Sample M16: 46.421 kJ/m^2



-End of Report-