Collaborative Testing Services, Inc.

Rubber Interlaboratory Testing Program

Summary Report #208- 2nd Qtr 2021

About the Rubber Program, About CTS

Key for Web Summary Report

Analysis	Analysis Name
605	Tensile Strength: Precured Rubber Samples
606	Ultimate Elongation: Precured Rubber Samples
607	Stress at 300% Elongation: Precured Samples
608	Stress at 100% Elongation: Precured Samples
620	Hardness (Type A): Precured Rubber Samples
621	Density: Precured Rubber Samples @ 25C
625	Hardness (Shore D/Type D)
630	Tensile Strength: Participant-Cured Rubber
631	Ultimate Elongation: Participant-Cured Samples
632	Tensile Stress at 300% Elongation: Lab-Cured
633	Tensile Stress at 100% Elongation: Lab-Cured
635	Compression Set
660	Mooney Viscosity (4-minute readings)
661	Mooney Viscosity (8-minute butyl readings)
662	Mooney Stress Relaxation: t80
663	Mooney Stress Relaxation: X30
664	Mooney Stress Relaxation: Area under curve
669	ODR Vulcanization Charac.: Cure Time 10%
670	ODR Vulcanization Charac.: Scorch Time, Ts1
671	ODR Vulcanization Charac.: Cure Time 50%
672	ODR Vulcanization Charac.: Cure Time 90%
673	ODR Vulcanization Charac.: Minimum Torque
674	ODR Vulcanization Charac.: Maximum Torque
684	MDR Vulcanization Charac.: Cure Time 10%
685	MDR Vulcanization Charac.: Scorch Time, Ts1
686	MDR Vulcanization Charac.: Cure Time 50%
687	MDR Vulcanization Charac.: Cure Time 90%
688	MDR Vulcanization Charac.: Minimum Torque
689	MDR Vulcanization Charac.: Maximum Torque

Analysis	Analysis Name
690	RPA Rheological Properties: Part A - G′ at 20Hz
691	RPA Rheological Properties: Part A - G″ at 20Hz
695	RPA Rheological Properties: Part B - G′ at 1.0Hz
696	RPA Rheological Properties: Part B - G″ at 1.0Hz

ABOUT THE PROGRAM

The Collaborative Reference Program for RUBBER, which was initiated in 1969, is operated and maintained by Collaborative Testing Services, Inc. (CTS), with technical guidance provided by the Rubber Division of the American Chemical Society. 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 rubber testing proficiency.

For each test there are summary statistics 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. Please refer to the section KEY TO TABLES AND GRAPHS for an explanation of terms and guidelines to interpreting the results.

ABOUT CTS

Founded in 1971, CTS is a privately-owned company that specializes in interlaboratory tests for a wide variety of industrial sectors, including rubber, plastics, fasteners and metals, containerboard, paper and color, 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 80 countries, currently participate in CTS programs.

If there are any questions on the report or testing program, please contact:

Collaborative Testing Services, Inc.
21331 Gentry Drive
Sterling, Virginia 20166 USA

+1-571-434-1925
FAX #: +1-571-434-1937
rubber@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 Rubber 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 — Tensile & Hardness: the average of the median values obtained for each sample. All other tests: 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 — If instruments are tracked in a test, a code indicating the manufacturer of the instrument used to perform the test (see separate INSTRUMENT CODE LIST for each test section).

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. However, a lab receiving two of more M flags for a test may need to stop and review its testing procedures.

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 data usually vary by more than three standard deviations from the grand mean.) 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.

5. ***Data appeared to be off by a factor of # and was corrected by CTS*** - In tests that involve computations, the results reported to CTS may be off by a factor. If this factor can easily be determined, CTS may correct the data and flag the participant. Occasionally CTS will correct a laboratory's results even though the data are still high or low when compared to the other participants. This is done so that the laboratory may be alerted to other possible errors in its testing procedure.

6. ***Data for two samples (or two tests) appeared to be switched by the lab, and the error was corrected by CTS.***

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.

WebCode	Data Flag	Sample B11-B12 Lab Mean	Diff from Grand Mean	CPV	Sample B13-B14 Lab Mean	Diff from Grand Mean	CPV
24NQPQ		3,293.0	3.9	0.03	3,409.5	56.9	0.38
2NEJUU		3,485.0	195.9	1.32	3,450.0	97.4	0.65
3DUUD2	X	2,501.9	-787.2	-5.31	3,183.6	-169.0	-1.13
3Q2MXL		3,380.0	90.9	0.61	3,512.5	159.9	1.07
46HVG6		3,090.0	-199.1	-1.34	3,175.0	-177.6	-1.19
48LQ3T		3,203.9	-85.2	-0.57	3,357.7	5.0	0.03
4W2GDY		3,564.0	274.9	1.85	3,628.0	275.4	1.84
6F9BGP		3,200.5	-88.6	-0.60	3,243.0	-109.6	-0.73
6MPNFN		3,304.5	15.4	0.10	3,443.0	90.4	0.61
6N3EM8		3,337.0	47.9	0.32	3,370.5	17.9	0.12
6PJBE8		3,562.9	273.8	1.85	3,591.2	238.6	1.60
78A2PQ		3,424.0	134.9	0.91	3,403.0	50.4	0.34
846UL6		3,134.0	-155.1	-1.05	3,172.7	-179.9	-1.21
866VNQ	X	3,646.2	357.1	2.41	3,490.4	137.8	0.92
89499U		3,309.8	20.7	0.14	3,312.7	-39.9	-0.27
8ERQPR		3,264.5	-24.6	-0.17	3,263.0	-89.6	-0.60
8JKTTQ		3,212.9	-76.2	-0.51	3,233.2	-119.4	-0.80
8TAL33		3,262.2	-26.9	-0.18	3,376.9	24.3	0.16
97TNZK		3,187.5	-101.6	-0.68	3,356.5	3.9	0.03
9CJZZM		3,605.0	315.9	2.13	3,712.0	359.4	2.41
9JYGRX		3,150.0	-139.1	-0.94	3,238.0	-114.6	-0.77
9P4HRR		3,366.1	77.0	0.52	3,472.8	120.2	0.80
9ZK6XL		3,543.0	253.9	1.71	3,612.0	259.4	1.74
ALN6PJ		3,352.5	63.4	0.43	3,320.5	-32.1	-0.22
ANRZ8Z		3,255.5	-33.6	-0.23	3,429.5	76.9	0.51
APNGLJ		3,241.6	-47.5	-0.32	3,277.9	-74.7	-0.50
BC9VTA		3,134.1	-155.0	-1.04	3,197.4	-155.2	-1.04
BCBFKJ		3,468.0	178.9	1.21	3,474.0	121.4	0.81
C4D7UK		3,618.4	329.3	2.22	3,719.5	366.9	2.46
C6PZAK		3,341.7	52.6	0.35	3,303.3	-49.3	-0.33
C7JQFY		3,048.9	-240.2	-1.62	3,178.6	-174.0	-1.17
CF7MJL		3,369.5	80.4	0.54	3,473.8	121.2	0.81
CZRM69		3,259.8	-29.3	-0.20	3,319.2	-33.4	-0.22
DKFANA		3,195.4	-93.7	-0.63	3,254.4	-98.2	-0.66
EGVW7J		3,127.5	-161.6	-1.09	3,186.1	-166.6	-1.12
EJV6BU		3,404.5	115.4	0.78	3,404.0	51.4	0.34
EUFJ86	*	2,875.6	-413.5	-2.79	3,028.0	-324.6	-2.17
EVQ2RA		3,115.0	-174.1	-1.17	3,130.0	-222.6	-1.49

WebCode	Data Flag	Sample B11-B12 Lab Mean	Diff from Grand Mean	CPV	Sample B13-B14 Lab Mean	Diff from Grand Mean	CPV
EXFKGE		3,275.5	-13.6	-0.09	3,351.0	-1.6	-0.01
F4XFQG		3,324.0	34.9	0.24	3,436.5	83.9	0.56
F6BUFC	X	3,003.0	-286.0	-1.93	2,891.7	-460.9	-3.09
FVPJBQ		3,353.1	64.0	0.43	3,421.2	68.6	0.46
GC9W2N		3,336.5	47.4	0.32	3,435.0	82.4	0.55
GCAUCJ		3,148.5	-140.6	-0.95	3,261.0	-91.6	-0.61
GDZZN4		3,383.0	93.9	0.63	3,375.5	22.9	0.15
HGYQEF	X	2,918.6	-370.5	-2.50	2,767.4	-585.2	-3.92
JBRQA4		3,039.3	-249.8	-1.68	3,070.5	-282.1	-1.89
JDEZNB		3,200.0	-89.1	-0.60	3,400.0	47.4	0.32
JETM2J		3,518.4	229.4	1.55	3,537.6	185.0	1.24
JLBVQF	X	3,544.0	254.9	1.72	3,365.0	12.4	0.08
JX4HUP		3,449.5	160.4	1.08	3,486.5	133.9	0.90
KCZVPD		3,332.5	43.4	0.29	3,364.5	11.9	0.08
KMJF63	*	3,052.3	-236.7	-1.60	3,277.2	-75.5	-0.51
KQWDEB		3,451.3	162.2	1.09	3,581.3	228.7	1.53
KUY7DF		3,374.0	84.9	0.57	3,452.0	99.4	0.67
KVT4J2		3,259.0	-30.1	-0.20	3,296.0	-56.6	-0.38
L2V99Z		3,440.3	151.2	1.02	3,452.7	100.0	0.67
L82ZKJ		3,374.6	85.5	0.58	3,483.4	130.8	0.88
LA7MY9		3,185.5	-103.6	-0.70	3,190.5	-162.1	-1.09
LP2A4F		2,965.5	-323.6	-2.18	2,999.5	-353.1	-2.36
LYRTJA		3,121.5	-167.6	-1.13	3,162.5	-190.1	-1.27
MCQYBJ		3,205.0	-84.1	-0.57	3,248.0	-104.6	-0.70
MTF89G		3,440.5	151.4	1.02	3,399.3	46.7	0.31
NG29Z8		3,321.4	32.3	0.22	3,371.4	18.8	0.13
NTWKCK		3,174.5	-114.5	-0.77	3,270.9	-81.7	-0.55
P4A3JH		3,387.4	98.3	0.66	3,430.2	77.6	0.52
PEAR2J		3,343.1	54.0	0.36	3,305.1	-47.5	-0.32
PGWET7		3,428.5	139.4	0.94	3,488.5	135.9	0.91
PNU9MX		3,337.5	48.4	0.33	3,381.0	28.4	0.19
PYEBBK		3,285.0	-4.1	-0.03	3,337.0	-15.6	-0.10
R6XC8F		3,331.0	41.9	0.28	3,310.5	-42.1	-0.28
RPZ7DK		3,214.2	-74.9	-0.50	3,181.9	-170.7	-1.14
RWZK28		3,312.3	23.2	0.16	3,491.6	139.0	0.93
T4HFEF		3,095.1	-193.9	-1.31	3,210.4	-142.2	-0.95
U72P48		3,446.0	156.9	1.06	3,484.5	131.9	0.88

WebCode	Data Flag	Sample B11-B12 Lab Mean	Sample B11-B12 Diff from Grand Mean	Sample B11-B12 CPV	Sample B13-B14 Lab Mean	Sample B13-B14 Diff from Grand Mean	Sample B13-B14 CPV
UA2ZZ8		3,074.8	-214.3	-1.44	3,198.1	-154.5	-1.03
UJQNVA		3,299.5	10.4	0.07	3,402.5	49.9	0.33
UU97MG		3,111.1	-178.0	-1.20	3,183.6	-169.0	-1.13
UYKB23		3,348.5	59.4	0.40	3,338.5	-14.1	-0.09
V27HY4		3,426.0	136.9	0.92	3,602.0	249.4	1.67
VX3NZY		3,196.0	-93.1	-0.63	3,207.0	-145.6	-0.98
WH8L28		3,353.5	64.4	0.43	3,331.0	-21.6	-0.14
WVVLRA		2,995.0	-294.1	-1.98	3,130.0	-222.6	-1.49
XCYHQY		3,320.7	31.6	0.21	3,515.0	162.4	1.09
XDT9WD		3,289.2	0.1	0.00	3,379.5	26.9	0.18
XV6ZTN		3,222.0	-67.1	-0.45	3,224.2	-128.4	-0.86
YZJU9K		3,280.5	-8.6	-0.06	3,488.5	135.9	0.91
ZET3LU		3,349.0	59.9	0.40	3,263.4	-89.2	-0.60
ZW9M3X		3,459.2	170.1	1.15	3,517.2	164.6	1.10
ZWT786		3,081.4	-207.7	-1.40	3,040.8	-311.9	-2.09
ZWU4HZ		3,415.0	125.9	0.85	3,440.0	87.4	0.59
ZYK9UK		3,335.2	46.1	0.31	3,441.8	89.2	0.60

Summary Statistics

	Sample B11-B12	Sample B13-B14
Grand Means	3,289.08 psi	3,352.61 psi
Stnd Dev Btwn Labs	148.31 psi	149.31 psi

Statistics based on 87 of 92 reporting participants

Summary Statistics in SI Units

	Sample B11-B12	Sample B13-B14
Grand Means	22.677 MPa	23.12 MPa
Stnd Dev Btwn Labs	1.023 MPa	1.03 MPa

Statistics based on 87 of 92 reporting participants

Samples B11-B12: Polyisoprene compound, batch #1 & B13-B14: Polyisoprene compound, batch #2

Comments on Assigned Data Flags for Test #605

3DUUD2 (X) - Inconsistency in Testing, data for sample group B11-B12 are low.

866VNQ (X) - Inconsistent in testing between samples.

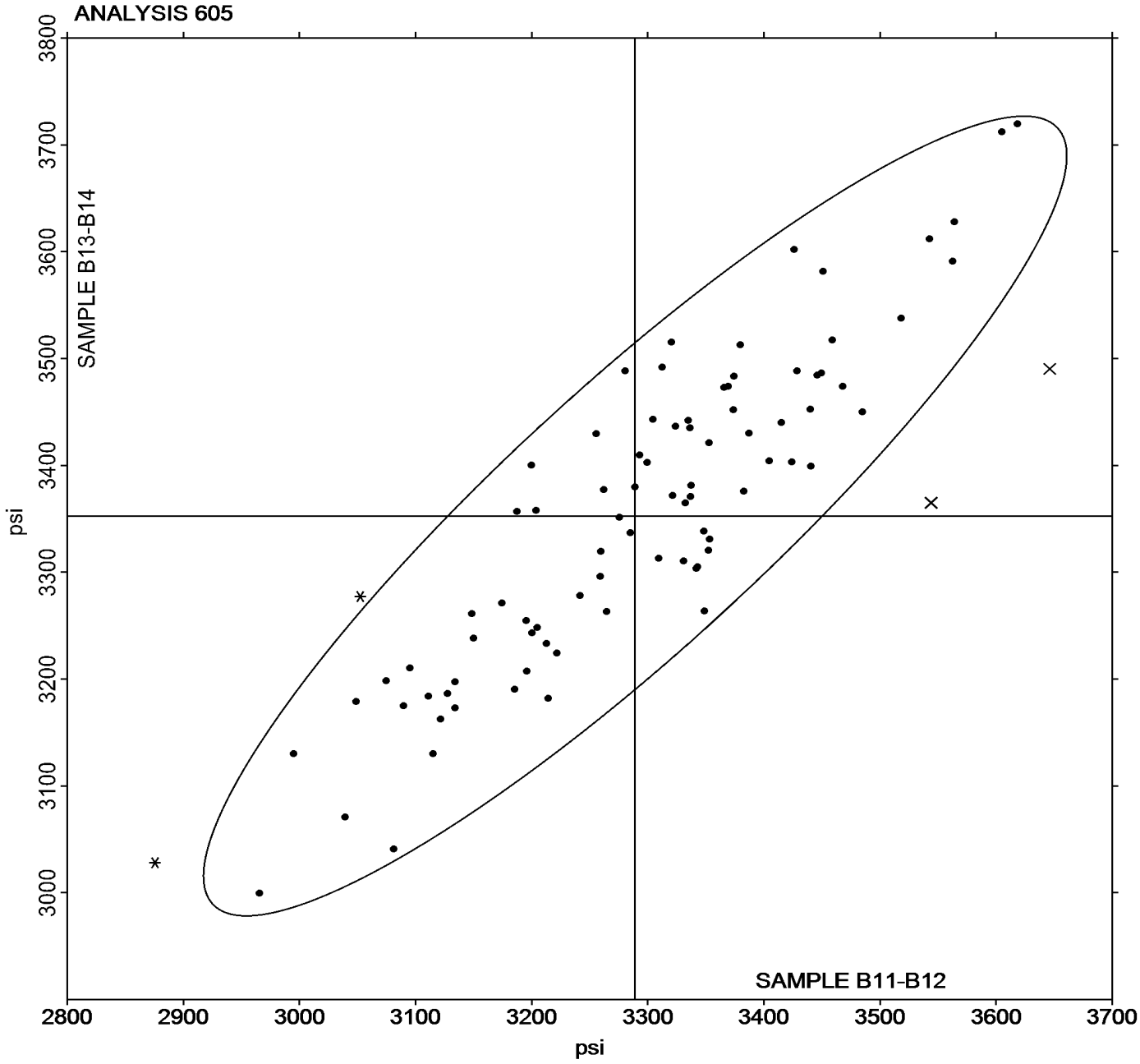
F6BUFC (X) - Inconsistency in Testing, data for sample group B13-B14 are low.

HGYQEF (X) - Inconsistency in Testing, data for sample group B13-B14 are low.

JLBVQF (X) - Inconsistent in testing between samples.

Grand Mean Sample **B11-B12** = 3,289.08 psi

Grand Mean Sample **B13-B14** = 3,352.61 psi



WebCode	Data Flag	Sample B11-B12 Lab Mean	Diff from Grand Mean	CPV	Sample B13-B14 Lab Mean	Diff from Grand Mean	CPV
24NQPQ		609.0	-4.3	-0.15	618.5	4.5	0.15
2NEJUU		636.0	22.7	0.77	628.5	14.5	0.50
3DUUD2	*	634.0	20.7	0.71	667.0	53.0	1.83
3Q2MXL		616.0	2.7	0.09	624.5	10.5	0.36
46HVG6		616.5	3.2	0.11	631.0	17.0	0.59
48LQ3T		586.0	-27.3	-0.93	590.0	-24.0	-0.83
4W2GDY		599.0	-14.3	-0.49	619.0	5.0	0.17
6F9BGP		596.5	-16.8	-0.57	599.5	-14.5	-0.50
6MPNFN		552.5	-60.8	-2.07	572.5	-41.5	-1.44
6N3EM8		626.5	13.2	0.45	614.5	0.5	0.02
6PJBE8		665.5	52.2	1.78	667.5	53.5	1.85
78A2PQ		605.5	-7.8	-0.27	590.0	-24.0	-0.83
846UL6		629.3	16.0	0.55	614.7	0.7	0.02
866VNQ		635.7	22.4	0.76	618.8	4.7	0.16
89499U		627.7	14.4	0.49	642.6	28.6	0.99
8ERQPR		594.5	-18.8	-0.64	608.5	-5.5	-0.19
8JKTTQ		581.5	-31.8	-1.08	566.5	-47.5	-1.64
8TAL33		574.7	-38.6	-1.32	572.2	-41.8	-1.45
97TNZK		604.5	-8.8	-0.30	606.0	-8.0	-0.28
9CJZZM		656.0	42.7	1.46	647.1	33.1	1.14
9JYGRX		613.0	-0.3	-0.01	616.5	2.5	0.09
9P4HRR	*	618.1	4.8	0.16	649.5	35.4	1.22
9ZK6XL		614.5	1.2	0.04	606.0	-8.0	-0.28
ALN6PJ		574.5	-38.8	-1.32	566.5	-47.5	-1.64
ANRZ8Z		606.8	-6.5	-0.22	617.5	3.5	0.12
APNGLJ		556.0	-57.3	-1.96	560.4	-53.6	-1.85
BC9VTA		600.2	-13.1	-0.45	598.8	-15.3	-0.53
BCBFKJ		649.0	35.7	1.22	628.5	14.5	0.50
C4D7UK		605.0	-8.3	-0.28	595.0	-19.0	-0.66
C6PZAK	*	695.0	81.7	2.79	700.0	86.0	2.97
C7JQFY		601.5	-11.8	-0.40	615.0	1.0	0.03
CF7MJL		565.2	-48.1	-1.64	561.6	-52.4	-1.81
CZRM69	*	699.5	86.2	2.94	704.0	90.0	3.11
DKFANA		634.5	21.2	0.72	636.5	22.5	0.78
EGVW7J		590.5	-22.8	-0.78	591.0	-23.0	-0.80
EJV6BU		665.0	51.7	1.76	656.5	42.5	1.47
EUFJ86		616.9	3.6	0.12	601.6	-12.4	-0.43
EVQ2RA		635.5	22.2	0.76	627.5	13.5	0.47

WebCode	Data Flag	Sample B11-B12 Lab Mean	Sample B11-B12 Diff from Grand Mean	Sample B11-B12 CPV	Sample B13-B14 Lab Mean	Sample B13-B14 Diff from Grand Mean	Sample B13-B14 CPV
EXFKGE		574.0	-39.3	-1.34	574.5	-39.5	-1.37
F4XFQG		644.0	30.7	1.05	652.5	38.5	1.33
F6BUFC	X	951.0	337.7	11.52	916.8	302.7	10.46
FVPJBQ		604.8	-8.5	-0.29	599.7	-14.3	-0.49
GC9W2N		597.5	-15.8	-0.54	608.5	-5.5	-0.19
GCAUCJ		599.5	-13.8	-0.47	608.5	-5.5	-0.19
GDZZN4		632.0	18.7	0.64	625.5	11.5	0.40
HGYQEF		605.3	-8.0	-0.27	607.0	-7.0	-0.24
JBRQA4		602.5	-10.8	-0.37	599.5	-14.5	-0.50
JDEZNB		580.0	-33.3	-1.14	585.0	-29.0	-1.00
JETM2J		586.8	-26.5	-0.90	603.4	-10.6	-0.37
JLBVQF		630.5	17.2	0.59	635.5	21.5	0.74
JX4HUP	*	691.0	77.7	2.65	680.5	66.5	2.30
KCZVPD		625.5	12.2	0.42	623.5	9.5	0.33
KQWDEB		615.2	1.9	0.06	619.1	5.0	0.17
KUY7DF		634.0	20.7	0.71	626.0	12.0	0.41
KVT4J2		636.5	23.2	0.79	635.0	21.0	0.72
L2V99Z		649.9	36.6	1.25	648.6	34.5	1.19
L82ZKJ		628.9	15.6	0.53	635.2	21.2	0.73
LA7MY9		597.9	-15.4	-0.52	588.6	-25.4	-0.88
LP2A4F		587.5	-25.8	-0.88	601.0	-13.0	-0.45
LYRTJA	*	566.3	-47.0	-1.60	598.0	-16.0	-0.55
MCQYBJ		639.0	25.7	0.88	654.0	40.0	1.38
MTF89G		621.5	8.2	0.28	610.0	-4.0	-0.14
NG29Z8		578.0	-35.3	-1.20	588.0	-26.0	-0.90
NTWKCK		632.0	18.7	0.64	605.1	-9.0	-0.31
P4A3JH		594.0	-19.3	-0.66	586.5	-27.5	-0.95
PEAR2J		639.7	26.4	0.90	649.1	35.0	1.21
PGWET7		637.5	24.2	0.83	640.5	26.5	0.91
PNU9MX		620.0	6.7	0.23	614.0	0.0	0.00
PYEBBK		615.5	2.2	0.08	614.5	0.5	0.02
R6XC8F	*	647.0	33.7	1.15	616.0	2.0	0.07
RPZ7DK		608.0	-5.3	-0.18	581.0	-33.0	-1.14
RWZK28		612.5	-0.8	-0.03	619.0	5.0	0.17
T4HFEF		592.5	-20.8	-0.71	604.5	-9.5	-0.33
U72P48		615.5	2.2	0.08	619.0	5.0	0.17
UA2ZZ8		596.2	-17.1	-0.58	602.7	-11.3	-0.39

WebCode	Data Flag	Sample B11-B12 Lab Mean	Sample B11-B12 Diff from Grand Mean	Sample B11-B12 CPV	Sample B13-B14 Lab Mean	Sample B13-B14 Diff from Grand Mean	Sample B13-B14 CPV
UJQNVA		603.0	-10.3	-0.35	608.0	-6.0	-0.21
UU97MG		609.0	-4.3	-0.15	594.5	-19.5	-0.67
UYKB23		555.0	-58.3	-1.99	568.0	-46.0	-1.59
V27HY4		573.0	-40.3	-1.37	584.5	-29.5	-1.02
VX3NZY		642.5	29.2	1.00	645.5	31.5	1.09
WH8L28		641.0	27.7	0.95	651.5	37.5	1.30
XCYHQY		606.0	-7.3	-0.25	604.5	-9.5	-0.33
XDT9WD		595.4	-17.9	-0.61	592.8	-21.2	-0.73
XV6ZTN		614.5	1.2	0.04	609.0	-5.0	-0.17
YZJU9K		589.0	-24.3	-0.83	599.5	-14.5	-0.50
ZET3LU		598.5	-14.8	-0.50	590.0	-24.0	-0.83
ZW9M3X		606.5	-6.8	-0.23	603.5	-10.5	-0.36
ZWT786		577.1	-36.2	-1.23	569.4	-44.7	-1.54
ZWU4HZ		633.0	19.7	0.67	623.5	9.5	0.33
ZYK9UK	X	1,173.0	559.7	19.09	1,170.5	556.5	19.23

Summary Statistics

	Sample B11-B12	Sample B13-B14
Grand Means	613.28 percent	614.03 percent
Stnd Dev Btwn Labs	29.32 percent	28.94 percent

Statistics based on 88 of 90 reporting participants

Samples B11-B12: Polyisoprene compound, batch #1 & B13-B14: Polyisoprene compound, batch #2

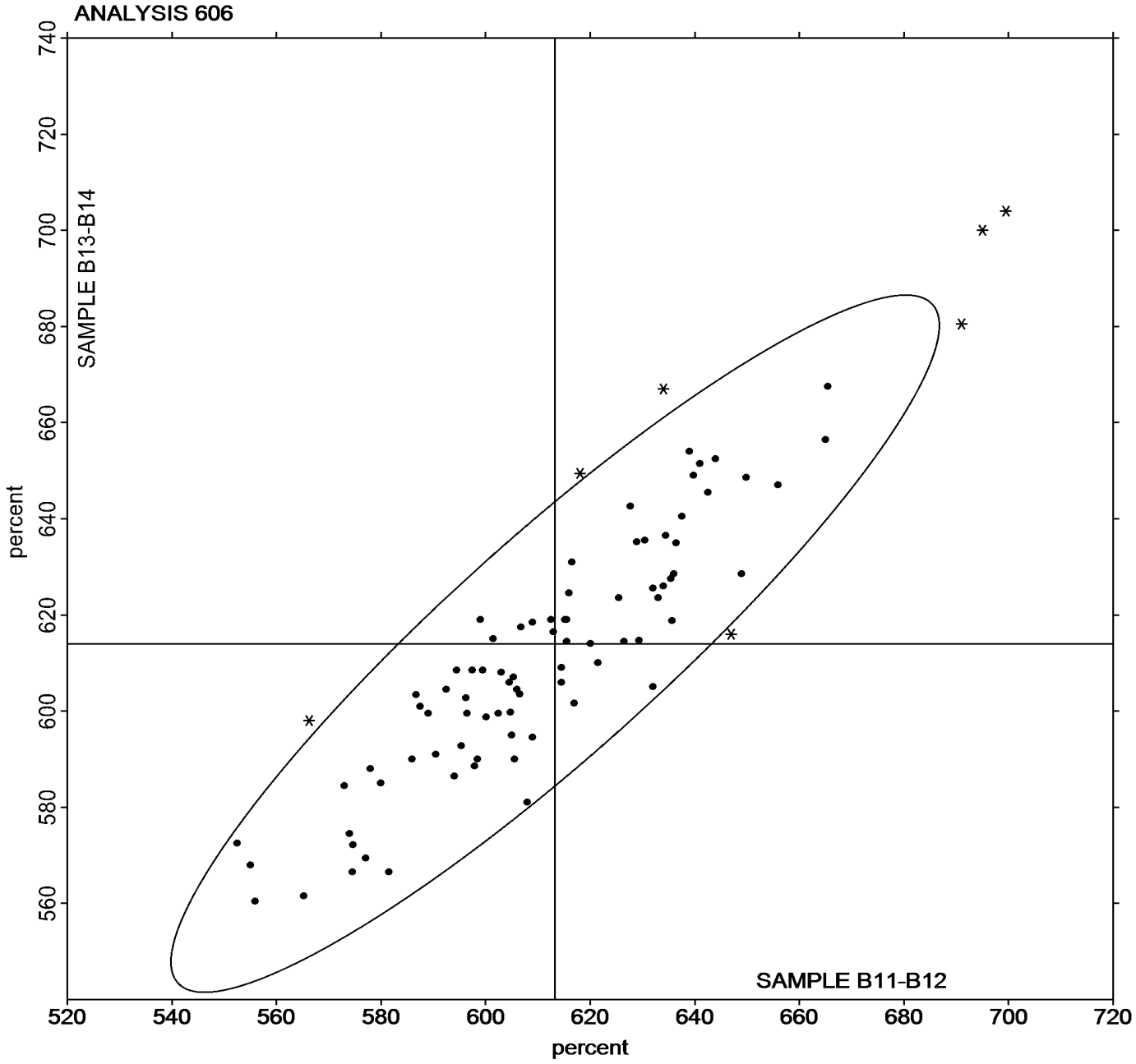
Comments on Assigned Data Flags for Test #606

F6BUFC (X) - Extreme Data.

ZYK9UK (X) - Extreme Data.

Grand Mean Sample **B11-B12** = 613.28 percent

Grand Mean Sample **B13-B14** = 614.03 percent



WebCode	Data Flag	Sample B11-B12 Lab Mean	Diff from Grand Mean	CPV	Sample B13-B14 Lab Mean	Diff from Grand Mean	CPV
24NQPQ		984.5	8.9	0.10	994.5	-2.9	-0.04
2NEJUU		969.5	-6.1	-0.07	975.0	-22.4	-0.27
3DUUD2	X	856.5	-119.2	-1.37	1,127.7	130.2	1.58
3Q2MXL		895.5	-80.1	-0.92	951.0	-46.4	-0.56
46HVG6		902.0	-73.6	-0.84	846.5	-150.9	-1.84
48LQ3T		1,046.5	70.8	0.81	1,064.6	67.2	0.82
4W2GDY		1,092.0	116.4	1.33	1,093.5	96.1	1.17
6F9BGP		1,006.5	30.9	0.35	967.5	-29.9	-0.36
6MPNFN		1,114.5	138.9	1.59	1,077.0	79.6	0.97
6N3EM8		931.5	-44.1	-0.51	1,043.0	45.6	0.55
6PJBE8		870.2	-105.4	-1.21	881.8	-115.6	-1.41
78A2PQ		977.0	1.4	0.02	1,015.0	17.6	0.21
846UL6		910.7	-64.9	-0.74	913.6	-83.8	-1.02
866VNQ		1,028.7	53.1	0.61	1,057.9	60.5	0.74
89499U		931.4	-44.3	-0.51	944.4	-53.0	-0.64
8ERQPR		1,054.0	78.4	0.90	1,016.5	19.1	0.23
8JKTTQ		1,021.7	46.1	0.53	1,060.2	62.7	0.76
8TAL33		999.6	24.0	0.27	1,064.9	67.5	0.82
9CJZZM		949.5	-26.2	-0.30	1,033.0	35.6	0.43
9JYGRX		934.0	-41.6	-0.48	955.0	-42.4	-0.52
9P4HRR		1,010.3	34.7	0.40	969.0	-28.5	-0.35
9ZK6XL	*	1,167.5	191.9	2.20	1,220.5	223.1	2.71
ALN6PJ		1,057.5	81.9	0.94	1,057.0	59.6	0.72
ANRZ8Z		981.0	5.4	0.06	1,055.0	57.6	0.70
APNGLJ	*	1,195.1	219.5	2.52	1,142.2	144.8	1.76
BC9VTA		985.7	10.1	0.12	1,022.7	25.2	0.31
BCBFKJ		979.0	3.4	0.04	1,021.0	23.6	0.29
C4D7UK	X	1,368.0	392.4	4.50	1,462.0	464.6	5.65
C6PZAK		800.6	-175.0	-2.01	801.3	-196.1	-2.39
C7JQFY		892.6	-83.0	-0.95	976.3	-21.2	-0.26
CF7MJL	*	1,208.7	233.1	2.67	1,162.6	165.2	2.01
CZRM69		773.1	-202.6	-2.32	794.8	-202.6	-2.46
DKFANA		915.3	-60.4	-0.69	931.1	-66.3	-0.81
EGVW7J		1,024.9	49.3	0.56	989.1	-8.4	-0.10
EJV6BU		870.0	-105.6	-1.21	900.0	-97.4	-1.19
EUFJ86	*	802.4	-173.2	-1.99	930.2	-67.2	-0.82
EVQ2RA		912.9	-62.7	-0.72	905.7	-91.7	-1.12
EXFKGE		1,094.0	118.4	1.36	1,076.5	79.1	0.96

WebCode	Data Flag	Sample B11-B12 Lab Mean	Diff from Grand Mean	CPV	Sample B13-B14 Lab Mean	Diff from Grand Mean	CPV
F4XFQG		936.5	-39.1	-0.45	959.5	-37.9	-0.46
F6BUFC	X	486.6	-489.0	-5.60	576.5	-420.9	-5.12
FVPJBQ		984.3	8.6	0.10	1,047.9	50.5	0.61
GC9W2N		1,057.0	81.4	0.93	1,071.5	74.1	0.90
GDZZN4		967.5	-8.1	-0.09	969.5	-27.9	-0.34
HGYQEF		869.4	-106.2	-1.22	816.6	-180.8	-2.20
JBRQA4		929.0	-46.6	-0.53	978.3	-19.1	-0.23
JDEZNB		1,045.0	69.4	0.80	1,100.0	102.6	1.25
JETM2J		1,096.9	121.2	1.39	1,073.1	75.7	0.92
JLBVQF		1,005.5	29.9	0.34	936.0	-61.4	-0.75
JX4HUP		844.0	-131.6	-1.51	902.0	-95.4	-1.16
KCZVPD		983.0	7.4	0.08	999.0	1.6	0.02
KQWDEB		1,032.0	56.4	0.65	1,116.6	119.2	1.45
KUY7DF		940.0	-35.6	-0.41	973.0	-24.4	-0.30
KVT4J2		958.5	-17.1	-0.20	947.5	-49.9	-0.61
L2V99Z		921.7	-53.9	-0.62	933.3	-64.1	-0.78
L82ZKJ		886.6	-89.0	-1.02	926.1	-71.3	-0.87
LA7MY9		898.8	-76.8	-0.88	972.7	-24.8	-0.30
LP2A4F		910.5	-65.1	-0.75	883.0	-114.4	-1.39
LYRTJA		1,059.0	83.4	0.96	1,053.0	55.6	0.68
MCQYBJ		871.5	-104.1	-1.19	845.5	-151.9	-1.85
MTF89G		984.6	9.0	0.10	1,020.1	22.7	0.28
NG29Z8		1,062.4	86.8	0.99	1,028.3	30.9	0.38
NTWKCK	*	883.4	-92.2	-1.06	1,029.5	32.0	0.39
P4A3JH		1,047.9	72.3	0.83	1,092.1	94.7	1.15
PEAR2J		908.7	-66.9	-0.77	927.4	-70.1	-0.85
PGWET7		914.0	-61.6	-0.71	960.0	-37.4	-0.46
PNU9MX		996.5	20.9	0.24	1,033.5	36.1	0.44
PYEBBK		983.5	7.9	0.09	1,010.5	13.1	0.16
R6XC8F		944.0	-31.6	-0.36	1,029.2	31.7	0.39
RPZ7DK		885.1	-90.5	-1.04	1,004.6	7.1	0.09
RWZK28		991.5	15.9	0.18	1,024.5	27.1	0.33
T4HFEF		987.0	11.4	0.13	978.3	-19.1	-0.23
UA2ZZ8		992.8	17.2	0.20	975.4	-22.0	-0.27
UJQNVA		967.5	-8.1	-0.09	1,011.5	14.1	0.17
UU97MG		913.7	-61.9	-0.71	1,051.5	54.1	0.66
UYKB23	*	1,206.0	230.4	2.64	1,122.0	124.6	1.52

WebCode	Data Flag	Sample B11-B12 Lab Mean	Sample B11-B12 Diff from Grand Mean	Sample B11-B12 CPV	Sample B13-B14 Lab Mean	Sample B13-B14 Diff from Grand Mean	Sample B13-B14 CPV
V27HY4		1,066.0	90.4	1.04	1,031.0	33.6	0.41
VX3NZY		841.0	-134.6	-1.54	884.0	-113.4	-1.38
WH8L28		928.0	-47.6	-0.55	911.5	-85.9	-1.05
XCYHQY		1,036.3	60.7	0.70	1,126.2	128.8	1.57
XDT9WD		1,054.5	78.9	0.90	1,114.4	117.0	1.42
XV6ZTN		913.7	-61.9	-0.71	913.0	-84.4	-1.03
YZJU9K		1,022.0	46.4	0.53	1,070.5	73.1	0.89
ZET3LU		1,030.5	54.9	0.63	1,019.6	22.2	0.27
ZW9M3X		953.0	-22.6	-0.26	960.5	-36.9	-0.45
ZWT786		968.1	-7.5	-0.09	1,030.5	33.1	0.40
ZWU4HZ		1,008.0	32.4	0.37	1,013.0	15.6	0.19
ZYK9UK	X	461.2	-514.4	-5.90	482.3	-515.2	-6.27

Summary Statistics

	Sample B11-B12	Sample B13-B14
Grand Means	975.62 psi	997.43 psi
Stnd Dev Btwn Labs	87.25 psi	82.21 psi

Statistics based on 83 of 87 reporting participants

Summary Statistics in SI Units

	Sample B11-B12	Sample B13-B14
Grand Means	6.7266 MPa	6.88 MPa
Stnd Dev Btwn Labs	0.6015 MPa	0.57 MPa

Statistics based on 83 of 87 reporting participants

Samples B11-B12: Polyisoprene compound, batch #1 & B13-B14: Polyisoprene compound, batch #2

Comments on Assigned Data Flags for Test #607

3DUUD2 (X) - Inconsistent in testing between samples.

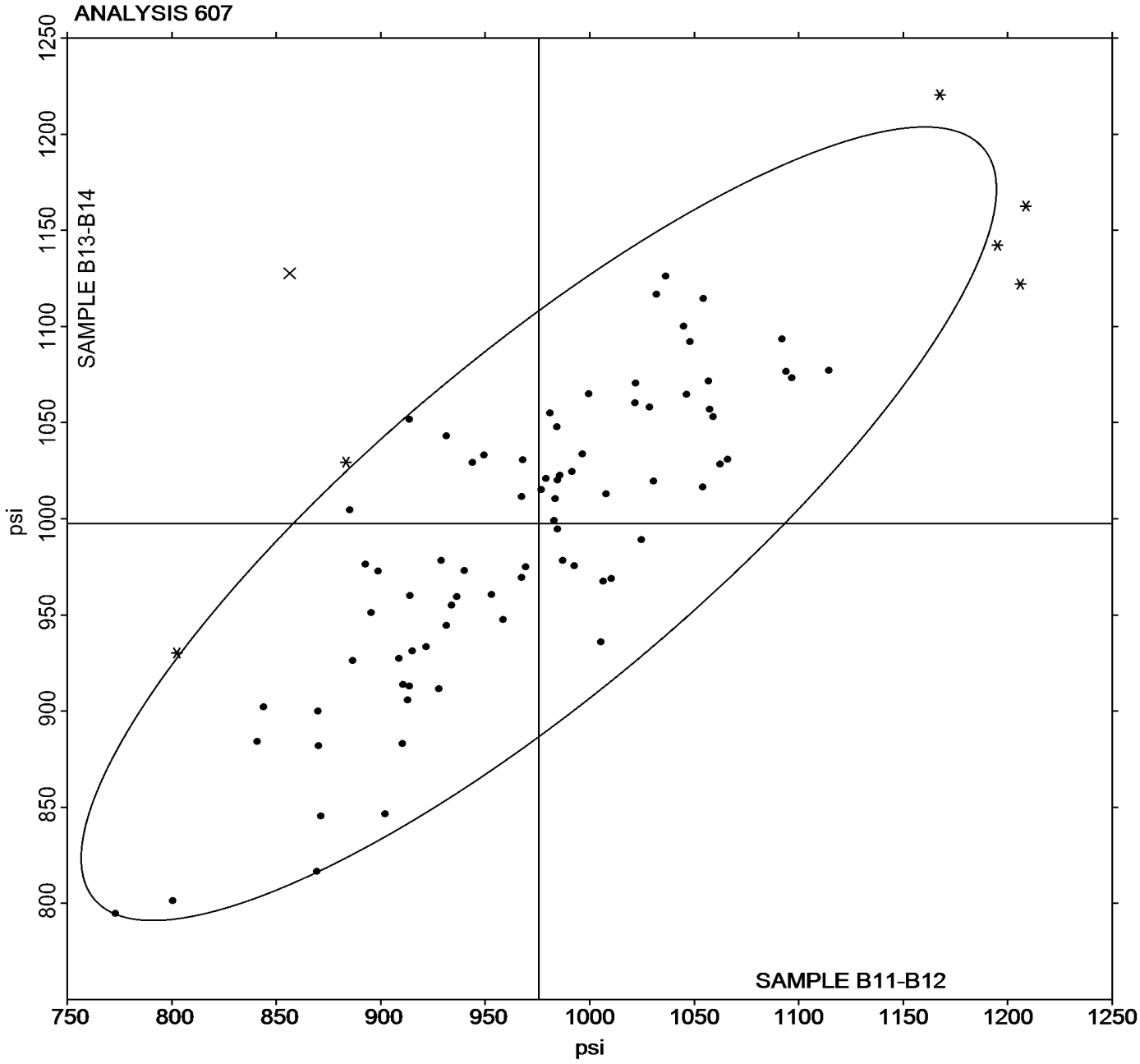
C4D7UK (X) - Data for all samples are high. Possible Systematic Error.

F6BUFC (X) - Data for all samples are low.

ZYK9UK (X) - Data for all samples are low.

Grand Mean Sample **B11-B12** = 975.62 psi

Grand Mean Sample **B13-B14** = 997.43 psi



WebCode	Data Flag	Sample B11-B12 Lab Mean	Diff from Grand Mean	CPV	Sample B13-B14 Lab Mean	Diff from Grand Mean	CPV
24NQPQ		210.5	2.2	0.14	212.5	0.1	0.01
2NEJUU		207.5	-0.8	-0.05	212.0	-0.4	-0.03
3DUUD2	X	220.5	12.1	0.77	276.3	63.9	4.28
3Q2MXL		199.0	-9.3	-0.60	203.0	-9.4	-0.63
46HVG6		191.6	-16.8	-1.07	182.2	-30.2	-2.03
48LQ3T		213.2	4.9	0.31	217.6	5.2	0.35
4W2GDY		229.5	21.2	1.35	226.0	13.6	0.91
6F9BGP		211.5	3.2	0.20	205.5	-6.9	-0.46
6MPNFN		230.5	22.2	1.42	231.0	18.6	1.25
6N3EM8		196.5	-11.8	-0.76	217.0	4.6	0.31
6PJBE8		216.1	7.8	0.50	213.2	0.8	0.05
78A2PQ		202.0	-6.3	-0.41	211.5	-0.9	-0.06
846UL6		205.3	-3.0	-0.19	206.2	-6.2	-0.42
866VNQ		220.6	12.3	0.79	224.6	12.2	0.82
89499U		209.9	1.5	0.10	206.5	-5.9	-0.39
8ERQPR		226.0	17.7	1.13	228.5	16.1	1.08
8JKTTQ		210.6	2.2	0.14	219.4	7.0	0.47
8TAL33		213.4	5.0	0.32	217.2	4.8	0.32
9CJZZM		199.5	-8.9	-0.57	217.3	4.9	0.33
9JYGRX		216.0	7.7	0.49	221.5	9.1	0.61
9P4HRR		220.2	11.8	0.75	222.5	10.0	0.67
9ZK6XL	*	240.5	32.2	2.06	250.5	38.1	2.55
ALN6PJ		214.0	5.7	0.36	217.0	4.6	0.31
ANRZ8Z		221.5	13.2	0.84	237.5	25.1	1.68
APNGLJ	*	242.9	34.6	2.21	229.9	17.5	1.17
BC9VTA		213.3	5.0	0.32	219.0	6.6	0.44
BCBFKJ		214.0	5.7	0.36	225.5	13.1	0.88
C4D7UK	X	721.0	512.7	32.79	721.0	508.6	34.11
C6PZAK		187.1	-21.2	-1.36	187.1	-25.3	-1.70
C7JQFY	*	174.3	-34.1	-2.18	197.5	-14.9	-1.00
CF7MJL		232.5	24.2	1.54	223.5	11.1	0.74
CZRM69		179.8	-28.5	-1.82	182.7	-29.7	-1.99
DKFANA		228.4	20.1	1.28	225.2	12.8	0.86
EGVW7J		215.0	6.6	0.42	204.6	-7.8	-0.52
EJV6BU		194.5	-13.8	-0.89	199.5	-12.9	-0.87
EUFJ86	*	170.8	-37.6	-2.40	192.0	-20.4	-1.37
EVQ2RA		189.4	-18.9	-1.21	189.1	-23.3	-1.57

WebCode	Data Flag	Sample B11-B12 Lab Mean	Diff from Grand Mean	CPV	Sample B13-B14 Lab Mean	Diff from Grand Mean	CPV
EXFKGE		222.5	14.2	0.91	219.0	6.6	0.44
F4XFQG		199.0	-9.3	-0.60	207.5	-4.9	-0.33
F6BUFC		171.1	-37.2	-2.38	180.2	-32.2	-2.16
FVPJBQ		204.2	-4.2	-0.27	211.7	-0.7	-0.05
GC9W2N		212.5	4.2	0.27	222.5	10.1	0.68
GDZZN4		199.0	-9.3	-0.60	206.5	-5.9	-0.40
HGYQEF	*	190.4	-18.0	-1.15	180.1	-32.3	-2.17
JBRQA4		218.3	9.9	0.64	226.3	13.9	0.93
JDEZNB		217.0	8.7	0.55	227.0	14.6	0.98
JETM2J		217.8	9.5	0.61	214.3	1.9	0.13
JLBVQF		212.5	4.2	0.27	202.0	-10.4	-0.70
JX4HUP		191.0	-17.3	-1.11	202.5	-9.9	-0.66
KCZVPD		210.0	1.7	0.11	211.0	-1.4	-0.09
KQWDEB		199.5	-8.9	-0.57	212.6	0.2	0.01
KUY7DF		208.5	0.2	0.01	211.5	-0.9	-0.06
KVT4J2		209.0	0.7	0.04	206.0	-6.4	-0.43
L2V99Z		190.0	-18.3	-1.17	197.3	-15.2	-1.02
L82ZKJ		191.0	-17.4	-1.11	197.8	-14.6	-0.98
LA7MY9		181.9	-26.5	-1.69	189.7	-22.7	-1.52
LP2A4F		200.5	-7.8	-0.50	203.0	-9.4	-0.63
LYRTJA		212.0	3.7	0.23	209.5	-2.9	-0.19
MCQYBJ		190.0	-18.3	-1.17	193.0	-19.4	-1.30
MTF89G		197.2	-11.1	-0.71	203.1	-9.3	-0.62
NG29Z8		216.8	8.5	0.54	206.0	-6.5	-0.43
NTWKCK	X	212.0	3.7	0.24	242.8	30.4	2.04
P4A3JH		228.4	20.1	1.28	236.4	24.0	1.61
PEAR2J		204.6	-3.8	-0.24	224.4	12.0	0.80
PGWET7		193.5	-14.8	-0.95	206.0	-6.4	-0.43
PNU9MX		230.0	21.7	1.38	231.5	19.1	1.28
PYEBBK		199.5	-8.8	-0.57	204.5	-7.9	-0.53
R6XC8F		207.0	-1.4	-0.09	214.8	2.3	0.16
RPZ7DK		196.1	-12.3	-0.79	212.5	0.0	0.00
RWZK28		215.5	7.2	0.46	222.5	10.1	0.68
T4HFEF		205.2	-3.1	-0.20	204.5	-7.9	-0.53
U72P48		205.5	-2.8	-0.18	204.0	-8.4	-0.56
UA2ZZ8		211.0	2.7	0.17	204.5	-7.9	-0.53
UJQNVA		214.0	5.7	0.36	219.5	7.1	0.48
UU97MG	X	195.8	-12.5	-0.80	232.1	19.7	1.32

WebCode	Data Flag	Sample B11-B12 Lab Mean	Sample B11-B12 Diff from Grand Mean	Sample B11-B12 CPV	Sample B13-B14 Lab Mean	Sample B13-B14 Diff from Grand Mean	Sample B13-B14 CPV
UYKB23		235.0	26.7	1.70	220.5	8.1	0.54
V27HY4	*	251.0	42.7	2.73	257.5	45.1	3.02
VX3NZY		190.0	-18.3	-1.17	195.0	-17.4	-1.17
WH8L28		206.0	-2.3	-0.15	202.0	-10.4	-0.70
XCYHQY		219.7	11.4	0.73	240.0	27.6	1.85
XDT9WD		219.2	10.9	0.69	233.6	21.1	1.42
XV6ZTN		200.9	-7.5	-0.48	203.8	-8.6	-0.58
YZJU9K		209.5	1.2	0.07	217.5	5.1	0.34
ZET3LU		217.6	9.2	0.59	211.0	-1.4	-0.09
ZW9M3X		201.5	-6.8	-0.44	209.5	-2.9	-0.19
ZWT786		200.2	-8.2	-0.52	214.9	2.5	0.17
ZWU4HZ		223.0	14.7	0.94	223.5	11.1	0.74
ZYK9UK	X	151.6	-56.8	-3.63	153.7	-58.7	-3.93

Summary Statistics

	Sample B11-B12	Sample B13-B14
Grand Means	208.35 psi	212.41 psi
Stnd Dev Btwn Labs	15.63 psi	14.91 psi

Statistics based on 83 of 88 reporting participants

Summary Statistics in SI Units

	Sample B11-B12	Sample B13-B14
Grand Means	1.4365 MPa	1.46 MPa
Stnd Dev Btwn Labs	0.1078 MPa	0.10 MPa

Statistics based on 83 of 88 reporting participants

Samples B11-B12: Polyisoprene compound, batch #1 & B13-B14: Polyisoprene compound, batch #2

Comments on Assigned Data Flags for Test #608

3DUUD2 (X) - Inconsistency in Testing, data for sample group B13-B14 are high.

C4D7UK (X) - Extreme Data.

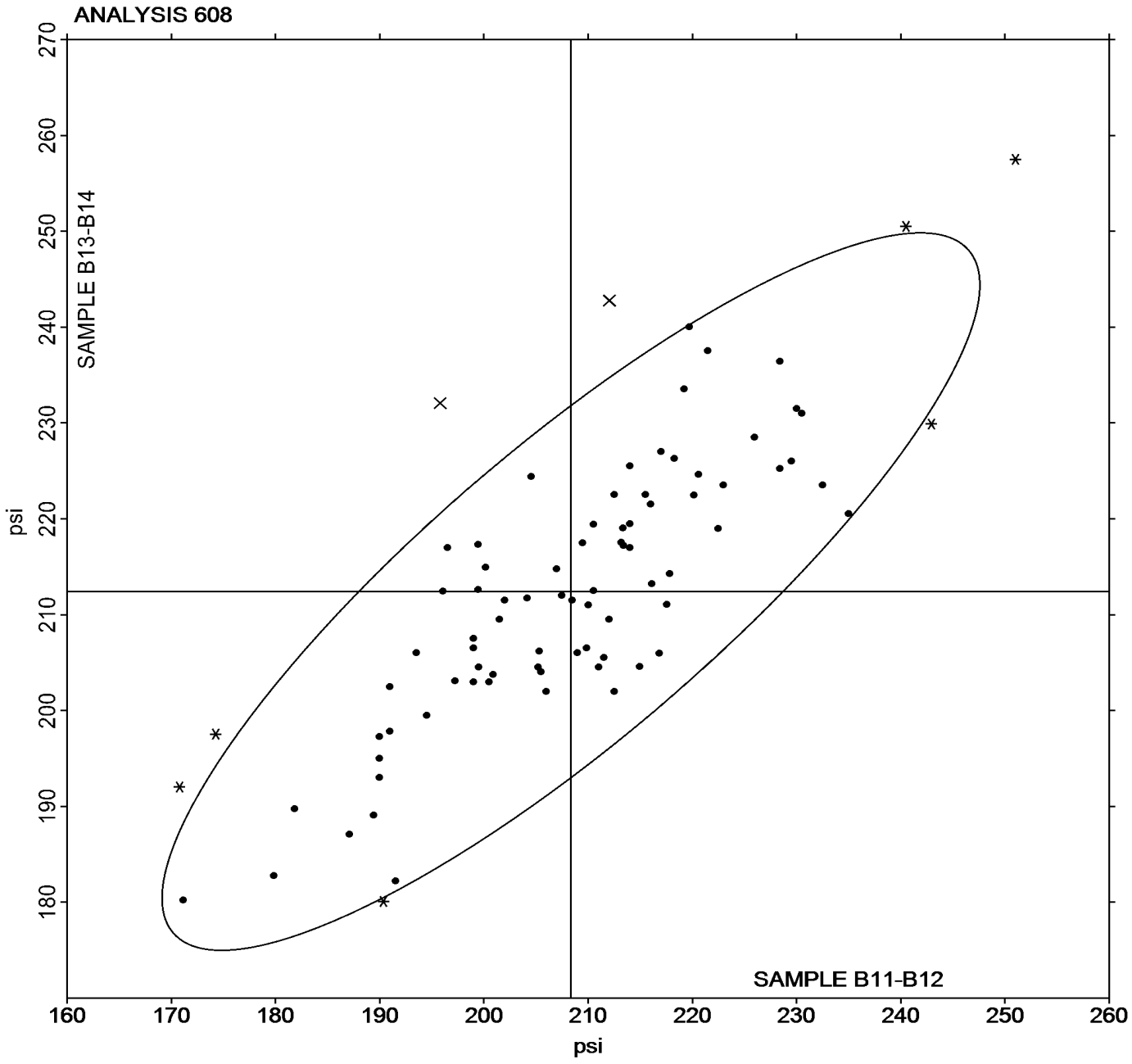
NTWKCK (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample group B11-B12.

UU97MG (X) - Inconsistent in testing between samples.

ZYK9UK (X) - Data for all samples are low. Possible Systematic Error. Inconsistent within the determinations of sample group B11-B12.

Grand Mean Sample **B11-B12** = 208.35 psi

Grand Mean Sample **B13-B14** = 212.41 psi



WebCode	Data Flag	Sample B11-B12 Lab Mean	Diff from Grand Mean	CPV	Sample B13-B14 Lab Mean	Diff from Grand Mean	CPV	Instr Code
24NQPQ		47.50	-0.97	-0.59	48.00	-0.59	-0.36	BT
2NEJUU		50.00	1.53	0.93	50.00	1.41	0.85	HH
3DUUD2		47.90	-0.57	-0.34	48.00	-0.59	-0.36	BT
3Q2MXL		51.75	3.28	1.99	51.75	3.16	1.90	HH
3T83D6		49.50	1.03	0.62	49.50	0.91	0.55	BT
46HVG6		49.75	1.28	0.78	50.25	1.66	1.00	BT
48LQ3T		49.30	0.83	0.50	49.30	0.71	0.43	BT
4W2GDY		47.65	-0.82	-0.50	47.60	-0.99	-0.60	BT
6F9BGP		50.00	1.53	0.93	49.50	0.91	0.55	BT
6MPNFN		50.00	1.53	0.93	49.50	0.91	0.55	BT
6N3EM8		50.00	1.53	0.93	50.00	1.41	0.85	HH
6PJBE8		50.00	1.53	0.93	50.00	1.41	0.85	BT
78A2PQ		49.00	0.53	0.32	50.00	1.41	0.85	HH
846UL6		49.00	0.53	0.32	49.50	0.91	0.55	BT
866VNQ		47.95	-0.52	-0.31	48.80	0.21	0.13	BT
89499U		46.40	-2.07	-1.25	45.90	-2.69	-1.62	BT
8ERQPR		49.50	1.03	0.62	50.50	1.91	1.15	BT
8JKTTQ		48.80	0.33	0.20	49.25	0.66	0.40	BT
8TAL33		47.20	-1.27	-0.77	46.75	-1.84	-1.11	BT
97TNZK	X	54.00	5.53	3.35	55.00	6.41	3.86	HH
9CDTNE		50.25	1.78	1.08	50.00	1.41	0.85	HH
9CJZZM	*	44.30	-4.17	-2.52	45.30	-3.29	-1.98	BT
9JYGRX		50.60	2.13	1.29	50.60	2.01	1.21	HH
9P4HRR		48.85	0.38	0.23	49.35	0.76	0.46	BT
9ZK6XL		49.50	1.03	0.62	49.50	0.91	0.55	HH
ALN6PJ		49.00	0.53	0.32	50.15	1.56	0.94	BT
ANRZ8Z		49.00	0.53	0.32	49.50	0.91	0.55	BT
APNGLJ		50.00	1.53	0.93	50.00	1.41	0.85	HH
BC9VTA		48.00	-0.47	-0.28	48.75	0.16	0.10	BT
BCBFKJ		47.80	-0.67	-0.40	48.25	-0.34	-0.21	BT
C4D7UK		48.30	-0.17	-0.10	48.45	-0.14	-0.08	BT
C6PZAK		48.00	-0.47	-0.28	48.00	-0.59	-0.36	BT
C7JQFY	X	41.00	-7.47	-4.52	41.00	-7.59	-4.58	BT
CF7MJL		48.50	0.03	0.02	49.00	0.41	0.25	HH
CZRM69		50.90	2.43	1.47	50.75	2.16	1.30	BT
DBRDMA		48.00	-0.47	-0.28	47.50	-1.09	-0.66	HH
DKFANA		47.50	-0.97	-0.59	47.00	-1.59	-0.96	BT
EGVW7J		48.65	0.18	0.11	48.75	0.16	0.10	BT

WebCode	Data Flag	Sample B11-B12 Lab Mean	Sample B11-B12 Diff from Grand Mean	Sample B11-B12 CPV	Sample B13-B14 Lab Mean	Sample B13-B14 Diff from Grand Mean	Sample B13-B14 CPV	Instr Code
EJV6BU		49.50	1.03	0.62	49.50	0.91	0.55	BT
EUFJ86		47.00	-1.47	-0.89	47.00	-1.59	-0.96	BT
EVQ2RA		47.50	-0.97	-0.59	47.00	-1.59	-0.96	HH
EXFKGE		48.00	-0.47	-0.28	48.00	-0.59	-0.36	BT
F4XFQG		52.50	4.03	2.44	52.50	3.91	2.36	BT
F6BUFC		47.50	-0.97	-0.59	48.00	-0.59	-0.36	HH
FVPJBQ		50.00	1.53	0.93	50.00	1.41	0.85	HH
FZKK7D		47.05	-1.42	-0.86	46.75	-1.84	-1.11	BT
GC9W2N		50.90	2.43	1.47	51.10	2.51	1.51	HH
GCAUCJ		48.00	-0.47	-0.28	48.00	-0.59	-0.36	BT
GDZZN4		46.90	-1.57	-0.95	47.35	-1.24	-0.75	BT
HGYQEF		45.50	-2.97	-1.80	45.00	-3.59	-2.16	BT
JBRQA4		49.00	0.53	0.32	49.00	0.41	0.25	HH
JDEZNB		50.50	2.03	1.23	51.00	2.41	1.45	BT
JETM2J		49.00	0.53	0.32	48.50	-0.09	-0.05	BT
JLBVQF		48.90	0.43	0.26	48.65	0.06	0.04	BT
JX4HUP		49.00	0.53	0.32	49.00	0.41	0.25	BT
KCZVPD		50.00	1.53	0.93	50.00	1.41	0.85	BT
KMJF63		45.00	-3.47	-2.10	45.50	-3.09	-1.86	BT
KQWDEB		51.00	2.53	1.53	51.25	2.66	1.60	HH
KUY7DF		50.30	1.83	1.11	50.30	1.71	1.03	BT
KVT4J2		48.55	0.08	0.05	48.85	0.26	0.16	BT
L2V99Z		48.00	-0.47	-0.28	48.00	-0.59	-0.36	BT
L82ZKJ		49.00	0.53	0.32	49.25	0.66	0.40	BT
LA7MY9		47.00	-1.47	-0.89	46.50	-2.09	-1.26	HH
LP2A4F		47.50	-0.97	-0.59	47.50	-1.09	-0.66	BT
LYRTJA	X	52.00	3.53	2.14	53.50	4.91	2.96	HH
MCQYBJ		49.00	0.53	0.32	49.00	0.41	0.25	HH
MTF89G		52.00	3.53	2.14	52.05	3.46	2.09	BT
NG29Z8		48.15	-0.32	-0.19	47.40	-1.19	-0.72	BT
NTWKCK		49.00	0.53	0.32	49.00	0.41	0.25	HH
P4A3JH		47.90	-0.57	-0.34	47.20	-1.39	-0.84	BT
PEAR2J		49.00	0.53	0.32	49.00	0.41	0.25	HH
PGWET7		48.10	-0.37	-0.22	48.75	0.16	0.10	BT
PNU9MX	X	54.00	5.53	3.35	54.50	5.91	3.56	XX
PYEBBK	*	45.00	-3.47	-2.10	44.50	-4.09	-2.47	BT
R6XC8F		48.45	-0.02	-0.01	48.50	-0.09	-0.05	BT

WebCode	Data Flag	Sample B11-B12 Lab Mean	Diff from Grand Mean	CPV	Sample B13-B14 Lab Mean	Diff from Grand Mean	CPV	Instr Code
RJDK2R		47.85	-0.62	-0.37	47.45	-1.14	-0.69	BT
RPZ7DK		50.50	2.03	1.23	50.40	1.81	1.09	BT
RWZK28		48.00	-0.47	-0.28	48.00	-0.59	-0.36	HH
T4HFEF		46.05	-2.42	-1.46	46.80	-1.79	-1.08	BT
U72P48		48.40	-0.07	-0.04	49.00	0.41	0.25	BT
UA2ZZ8		49.85	1.38	0.84	50.55	1.96	1.18	BT
UJQNVA		48.50	0.03	0.02	48.00	-0.59	-0.36	BT
UU97MG		46.00	-2.47	-1.49	47.00	-1.59	-0.96	BT
UYKB23		46.50	-1.97	-1.19	46.35	-2.24	-1.35	BT
V27HY4	*	44.10	-4.37	-2.64	44.95	-3.64	-2.19	BT
VQHNM8	X	44.50	-3.97	-2.40	43.50	-5.09	-3.07	BT
VX3NZY		49.00	0.53	0.32	48.00	-0.59	-0.36	BT
WH8L28		49.50	1.03	0.62	50.50	1.91	1.15	HH
WVVLRA		45.50	-2.97	-1.80	45.50	-3.09	-1.86	BT
XBYMWV	X	57.00	8.53	5.16	57.00	8.41	5.07	BT
XCYHQY	X	46.40	-2.07	-1.25	43.45	-5.14	-3.10	BT
XDT9WD		47.80	-0.67	-0.40	49.10	0.51	0.31	BT
XV6ZTN		46.00	-2.47	-1.49	46.25	-2.34	-1.41	BT
YZJU9K		49.15	0.68	0.41	48.75	0.16	0.10	BT
ZET3LU		50.00	1.53	0.93	50.00	1.41	0.85	HH
ZW9M3X		46.35	-2.12	-1.28	46.15	-2.44	-1.47	BT
ZWT786		46.50	-1.97	-1.19	47.75	-0.84	-0.51	HH
ZWU4HZ		49.00	0.53	0.32	48.00	-0.59	-0.36	BT
ZYK9UK	*	46.50	-1.97	-1.19	48.00	-0.59	-0.36	BT

Summary Statistics

	Sample B11-B12	Sample B13-B14
Grand Means	48.468 Type A	48.591 Type A
Stnd Dev Btwn Labs	1.653 Type A	1.659 Type A

Statistics based on 92 of 99 reporting participants

Samples B11-B12: Polyisoprene compound, batch #1 & B13-B14: Polyisoprene compound, batch #2

Comments on Assigned Data Flags for Test #620

97TNZK (X) - Data for all samples are high. Possible Systematic Error.

C7JQFY (X) - Data for all samples are low. Possible Systematic Error.

LYRTJA (X) - Inconsistency in Testing, data for sample group B13-B14 are high. Inconsistent within the determinations of sample group B13-B14.

PNU9MX (X) - Data for all samples are high. Possible Systematic Error.

VQHNM8 (X) - Data for sample group B13-B14 are low.

XBYMWV (X) - Data for all samples are high. Possible Systematic Error.

XCYHQY (X) - Inconsistency in Testing, data for sample group B13-B14 are low. Inconsistent within the determinations of sample group B13-B14.

Key to Instrument Codes Reported by Participants

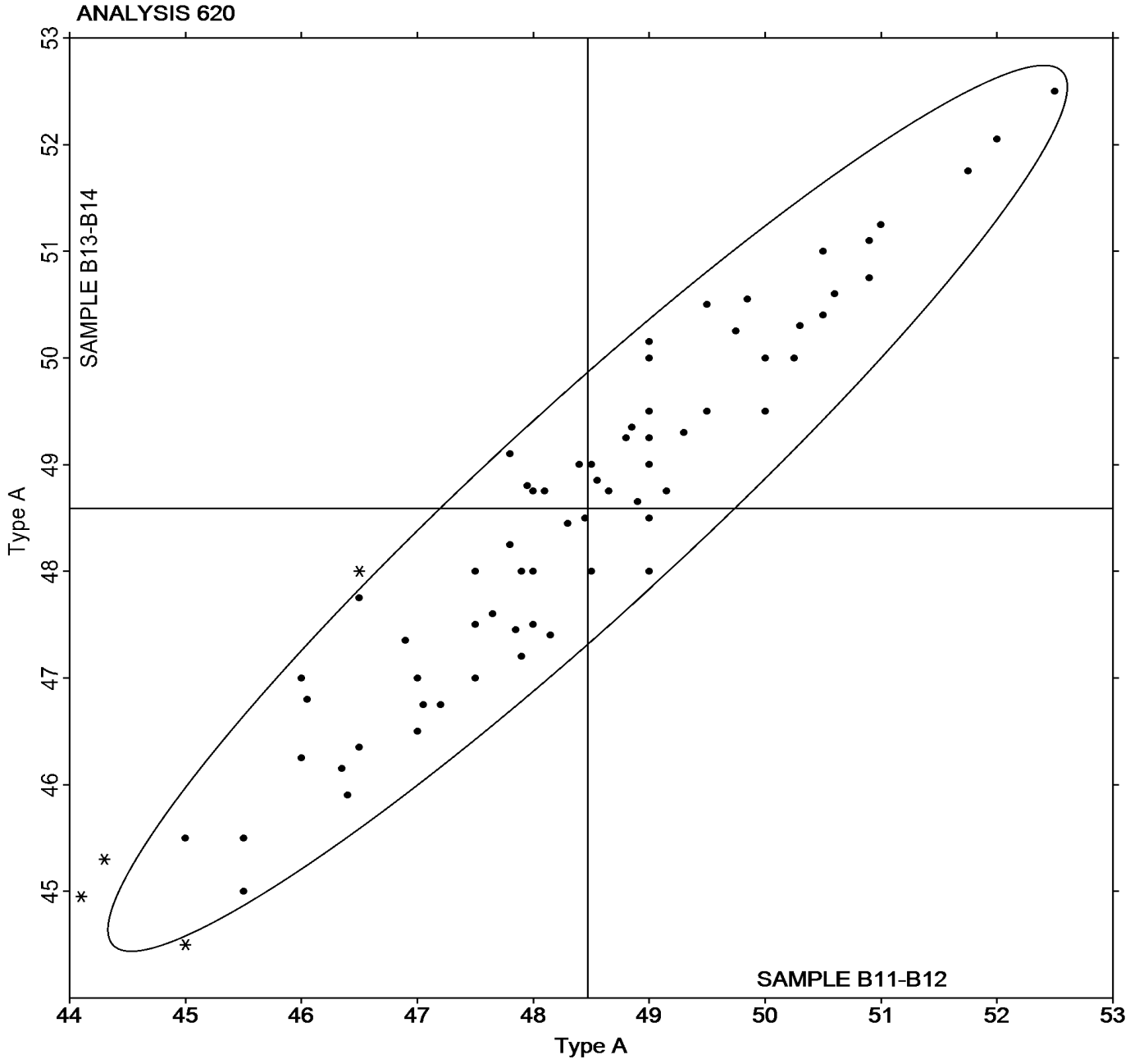
BT	Benchtop	HH	Handheld
XX	Specify Benchtop or Handheld Instrument		

Results by Reading Time (as reported by laboratory)

	Sample B11-B12 *Polyisoprene compound, batch #1*			Sample B13-B14 *Polyisoprene compound, batch #2*				
Reading Time	Group Mean	Btwn Lab STD	Diff from GM	Group Mean	Btwn Lab STD	Diff from GM	Labs Incl	/ Rpt
Readings taken within 0 - 5 seconds	48.96	1.37	0.49	49.06	1.43	0.47	61	68
Readings taken at 5 seconds	47.21	1.26	-1.26	47.46	1.38	-1.14	9	9
Readings taken after 5+ seconds	47.70	1.73	-0.77	47.59	1.96	-1.00	7	8
Maximum hardness indicator used	48.54	1.39	0.07	48.60	1.30	0.01	11	13

Grand Mean Sample **B11-B12** = 48.468 Type A

Grand Mean Sample **B13-B14** = 48.591 Type A



WebCode	Data Flag	Sample B11-B12 Lab Mean	Diff from Grand Mean	CPV	Sample B13-B14 Lab Mean	Diff from Grand Mean	CPV
2NEJUU		1.137	0.003	0.95	1.138	0.004	1.03
3DUUD2		1.127	-0.007	-2.15	1.128	-0.006	-1.81
3Q2MXL		1.133	-0.001	-0.40	1.136	0.002	0.47
46HVG6		1.139	0.005	1.40	1.136	0.002	0.48
48LQ3T	X	1.121	-0.013	-3.84	1.119	-0.015	-4.36
4W2GDY		1.135	0.001	0.20	1.134	0.000	-0.10
6F9BGP		1.130	-0.004	-1.14	1.130	-0.004	-1.10
6N3EM8		1.129	-0.005	-1.38	1.130	-0.004	-1.07
6PJBE8		1.133	-0.001	-0.25	1.132	-0.002	-0.53
78A2PQ		1.129	-0.005	-1.44	1.130	-0.004	-1.24
866VNQ		1.138	0.004	1.31	1.139	0.005	1.46
8ERQPR		1.138	0.004	1.25	1.137	0.003	0.75
8JKTTQ		1.137	0.004	1.09	1.137	0.003	0.93
8TAL33		1.130	-0.003	-1.02	1.131	-0.003	-0.81
9CDTNE		1.132	-0.001	-0.41	1.134	0.001	0.15
9CJZZM	*	1.141	0.007	2.16	1.145	0.011	3.02
9JYGRX		1.133	-0.001	-0.23	1.133	0.000	-0.12
9P4HRR		1.131	-0.002	-0.74	1.133	-0.001	-0.29
9ZK6XL		1.139	0.005	1.45	1.138	0.004	1.28
ALN6PJ		1.132	-0.001	-0.43	1.133	-0.001	-0.34
ANRZ8Z		1.134	0.000	-0.04	1.134	0.000	-0.06
BC9VTA		1.133	-0.001	-0.37	1.133	-0.001	-0.33
C4D7UK		1.134	0.000	0.04	1.131	-0.003	-0.85
C7JQFY	*	1.132	-0.002	-0.68	1.127	-0.007	-2.05
CF7MJL	X	1.115	-0.019	-5.56	1.114	-0.020	-5.61
CZRM69		1.137	0.003	0.80	1.134	0.000	0.04
DBRDMA		1.133	-0.001	-0.40	1.132	-0.002	-0.53
DKFANA		1.132	-0.002	-0.69	1.134	0.000	0.03
EGVW7J		1.136	0.003	0.77	1.136	0.002	0.71
EJV6BU		1.135	0.001	0.38	1.135	0.001	0.38
EUFJ86		1.135	0.001	0.20	1.135	0.001	0.18
EVQ2RA		1.135	0.001	0.31	1.135	0.001	0.24
F4XFQG	X	1.128	-0.006	-1.68	1.134	0.000	0.07
FVPJBQ	*	1.126	-0.008	-2.49	1.125	-0.009	-2.52
GC9W2N		1.127	-0.007	-2.00	1.127	-0.007	-1.96
GCAUCJ		1.129	-0.005	-1.59	1.130	-0.004	-1.24
GDZZN4		1.131	-0.003	-0.83	1.129	-0.005	-1.51
HGYQEF		1.134	0.000	0.05	1.136	0.002	0.61

WebCode	Data Flag	Sample B11-B12 Lab Mean	Diff from Grand Mean	CPV	Sample B13-B14 Lab Mean	Diff from Grand Mean	CPV
JDEZNB		1.136	0.002	0.50	1.136	0.002	0.47
JETM2J		1.133	-0.001	-0.26	1.131	-0.003	-0.87
JLBVQF		1.133	0.000	-0.13	1.134	0.000	-0.06
JX4HUP		1.134	0.000	0.08	1.135	0.002	0.44
KCZVPD		1.132	-0.002	-0.69	1.130	-0.004	-1.10
KUY7DF		1.134	0.000	-0.10	1.134	0.000	-0.10
KVT4J2		1.141	0.007	2.15	1.143	0.009	2.45
L2V99Z		1.139	0.005	1.40	1.140	0.006	1.60
L82ZKJ		1.139	0.005	1.40	1.140	0.006	1.60
LA7MY9	X	2.604	1.470	440.14	2.601	1.467	416.48
LP2A4F		1.133	-0.001	-0.29	1.135	0.001	0.23
LYRTJA		1.136	0.002	0.68	1.137	0.004	1.01
MCQYBJ	*	1.131	-0.003	-0.84	1.136	0.002	0.47
MTF89G		1.135	0.001	0.20	1.136	0.002	0.68
NTWKCK		1.136	0.002	0.65	1.135	0.001	0.32
P4A3JH		1.132	-0.002	-0.69	1.131	-0.003	-0.85
PEAR2J		1.135	0.001	0.35	1.136	0.002	0.47
PGWET7	*	1.138	0.004	1.34	1.134	0.000	-0.09
PNU9MX		1.136	0.002	0.50	1.137	0.003	0.89
PYEBBK		1.131	-0.003	-0.84	1.134	0.000	0.04
R6XC8F		1.130	-0.004	-1.07	1.131	-0.003	-0.93
RPZ7DK		1.133	-0.001	-0.16	1.131	-0.002	-0.70
RWZK28		1.134	0.000	0.13	1.132	-0.002	-0.61
T4HFEF		1.136	0.002	0.50	1.135	0.001	0.18
U72P48		1.139	0.005	1.55	1.137	0.003	0.89
VX3NZY		1.134	0.000	-0.10	1.133	-0.001	-0.24
WH8L28		1.134	0.000	0.05	1.134	0.000	0.04
XCYHQY		1.136	0.002	0.65	1.137	0.003	0.75
XV6ZTN		1.130	-0.004	-1.29	1.132	-0.002	-0.67
YZJU9K		1.137	0.003	0.86	1.134	0.000	0.07
ZET3LU		1.137	0.003	0.80	1.136	0.002	0.61
ZWU4HZ		1.135	0.001	0.22	1.135	0.001	0.20
ZYK9UK		1.130	-0.004	-1.29	1.132	-0.002	-0.53

Summary Statistics		
Grand Means		
	1.1338 g/cm^3 (Mg/m^3)	1.1339 g/cm^3 (Mg/m^3)
Stnd Dev Btwn Labs		
	0.0033 g/cm^3 (Mg/m^3)	0.0035 g/cm^3 (Mg/m^3)
		Statistics based on 67 of 71 reporting participants

Samples B11-B12: Polyisoprene compound, batch #1 & B13-B14: Polyisoprene compound, batch #2

Comments on Assigned Data Flags for Test #621

48LQ3T (X) - Data for all samples are low. Possible Systematic Error.

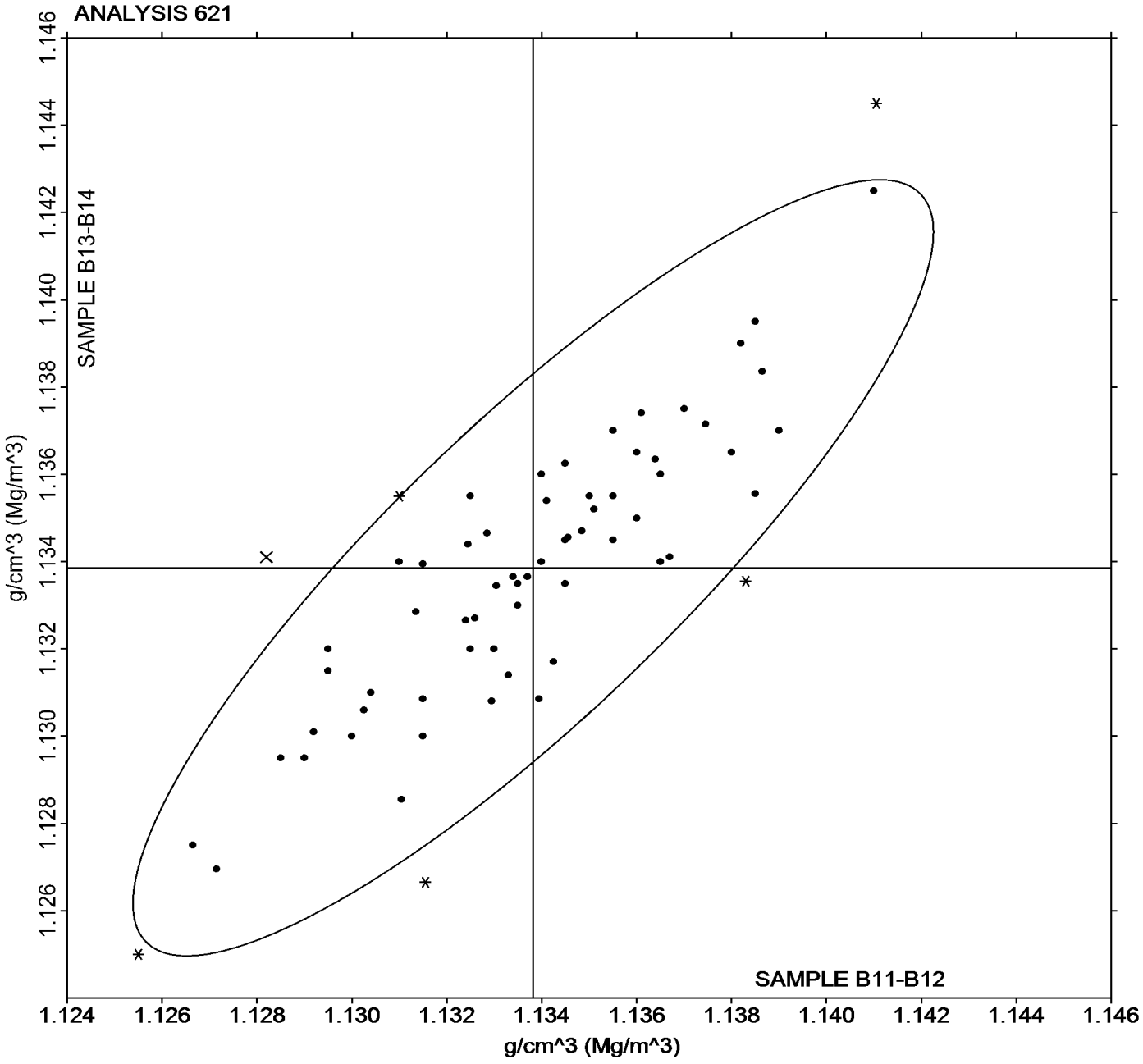
CF7MJL (X) - Data for all samples are low. Possible Systematic Error.

F4XFQG (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample group B11-B12.

LA7MY9 (X) - Extreme Data.

Grand Mean Sample **B11-B12** = 1.1338 g/cm^3 (Mg/m^3)

Grand Mean Sample **B13-B14** = 1.1339 g/cm^3 (Mg/m^3)



WebCode	Data Flag	Sample HB11-HB12 Lab Mean	Diff from Grand Mean	CPV	Sample HB13-HB14 Lab Mean	Diff from Grand Mean	CPV	Instr Code
2FJL3L		78.50	2.64	0.99	87.00	2.60	1.14	HH
46HVHP		77.25	1.39	0.52	85.50	1.10	0.48	HH
4W2GDY		78.75	2.89	1.08	87.20	2.80	1.22	BT
6G6QPF		76.50	0.64	0.24	85.50	1.10	0.48	BT
6XQ82P		74.00	-1.86	-0.70	84.50	0.10	0.04	BT
846UL6		75.50	-0.36	-0.14	84.00	-0.40	-0.18	XX
9ZK6XL		79.50	3.64	1.36	87.00	2.60	1.14	HH
AHLAZN		74.50	-1.36	-0.51	82.50	-1.90	-0.83	BT
AUUC3X		78.50	2.64	0.99	85.50	1.10	0.48	HH
CYZKJT		75.00	-0.86	-0.32	83.00	-1.40	-0.61	HH
EBMHG9		73.75	-2.11	-0.79	83.55	-0.85	-0.37	BT
EGVW7J		74.45	-1.41	-0.53	82.00	-2.40	-1.05	BT
EUFJ86	*	70.50	-5.36	-2.01	82.00	-2.40	-1.05	BT
HGYQEF		69.50	-6.36	-2.38	80.00	-4.40	-1.93	BT
JDEZNB		77.00	1.14	0.43	85.00	0.60	0.26	BT
LYRTJA		78.50	2.64	0.99	86.00	1.60	0.70	HH
MCQYBJ	*	82.00	6.14	2.30	91.00	6.60	2.89	HH
MMQPU7		76.30	0.44	0.16	83.50	-0.90	-0.40	BT
N6LNB4		74.50	-1.36	-0.51	84.50	0.10	0.04	HH
NCAYUF		78.75	2.89	1.08	86.75	2.35	1.03	BT
PH99DD		77.75	1.89	0.71	85.80	1.40	0.61	HH
PYEBBK		73.50	-2.36	-0.88	82.00	-2.40	-1.05	BT
RJDK2R		74.40	-1.46	-0.55	82.75	-1.65	-0.72	BT
RPZ7DK		78.00	2.14	0.80	85.00	0.60	0.26	BT
TN3A73		73.00	-2.86	-1.07	80.00	-4.40	-1.93	BT
UA2ZZ8		74.50	-1.36	-0.51	84.00	-0.40	-0.18	BT
UC7NDC		73.70	-2.16	-0.81	84.50	0.10	0.04	BT
WL4BHE		77.75	1.89	0.71	86.25	1.85	0.81	HH
XBYMWV		73.00	-2.86	-1.07	81.50	-2.90	-1.27	BT
XCE2BW		77.50	1.64	0.61	85.50	1.10	0.48	BT
XKANHV		75.30	-0.56	-0.21	82.65	-1.75	-0.77	BT
ZET3LU		76.00	0.14	0.05	85.00	0.60	0.26	HH

Summary Statistics

Grand Means	75.864 Type D	84.405 Type D
Stnd Dev Btwn Labs	2.672 Type D	2.286 Type D

Statistics based on 32 of 32 reporting participants

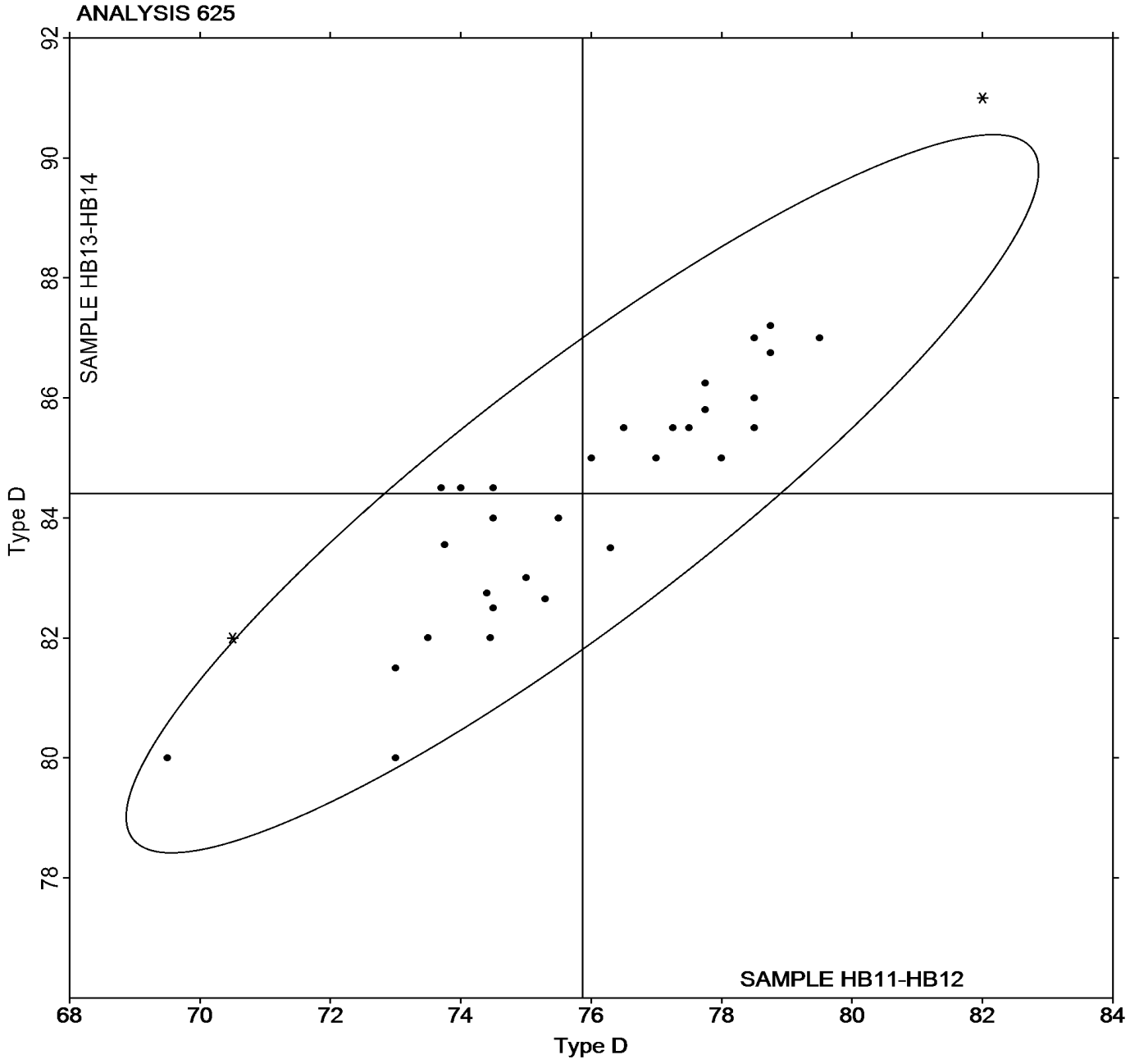
Samples HB11-HB12: Hardness Disc, batch #1 & HB13-HB14: Hardness Disc, batch #2

Key to Instrument Codes Reported by Participants

BT	Benchtop	HH	Handheld
XX	Specify Benchtop or Handheld Instrument		

Grand Mean Sample **HB11-HB12** = 75.864 Type D

Grand Mean Sample **HB13-HB14** = 84.405 Type D



WebCode	Data Flag	Sample B11-B12 Lab Mean	Sample B11-B12 Diff from Grand Mean	Sample B11-B12 CPV	Sample K11-K12 Lab Mean	Sample K11-K12 Diff from Grand Mean	Sample K11-K12 CPV
2NEJUU		3,485.0	196.3	1.54	3,145.0	48.3	0.22
3Q2MXL		3,380.0	91.3	0.72	3,384.0	287.3	1.29
6F9BGP		3,200.5	-88.2	-0.69	3,059.5	-37.2	-0.17
8ERQPR		3,264.5	-24.2	-0.19	3,165.5	68.8	0.31
8JKTTQ		3,212.9	-75.9	-0.59	3,183.0	86.3	0.39
9CJZZM		3,605.0	316.3	2.48	3,425.0	328.3	1.47
9JYGRX		3,150.0	-138.7	-1.09	2,956.0	-140.7	-0.63
9P4HRR		3,366.1	77.3	0.61	3,396.5	299.7	1.34
CF7MJL		3,369.5	80.7	0.63	3,198.3	101.6	0.46
DKFANA		3,195.4	-93.3	-0.73	3,098.5	1.8	0.01
EGVW7J		3,127.5	-161.3	-1.26	3,134.7	38.0	0.17
EVQ2RA		3,115.0	-173.7	-1.36	2,829.0	-267.7	-1.20
FVPJBQ		3,353.1	64.4	0.50	3,012.3	-84.4	-0.38
JBRQA4		3,039.3	-249.4	-1.95	2,576.6	-520.1	-2.33
KVT4J2		3,259.0	-29.7	-0.23	3,275.0	178.3	0.80
L2V99Z		3,440.3	151.6	1.19	2,915.3	-181.4	-0.81
MTF89G		3,440.5	151.8	1.19	3,265.3	168.5	0.76
PGWET7		3,428.5	139.8	1.10	3,112.5	15.8	0.07
PNU9MX		3,337.5	48.8	0.38	2,930.5	-166.2	-0.75
PYEBBK		3,285.0	-3.7	-0.03	3,142.5	45.8	0.21
R6XC8F		3,331.0	42.2	0.33	3,236.6	139.9	0.63
RPZ7DK		3,214.2	-74.5	-0.58	2,757.5	-339.2	-1.52
RWZK28		3,312.3	23.6	0.18	3,329.1	232.4	1.04
UA2ZZ8		3,074.8	-213.9	-1.68	2,516.4	-580.3	-2.60
UJQNVA		3,299.5	10.8	0.08	3,209.5	112.8	0.51
VX3NZY		3,196.0	-92.7	-0.73	3,144.0	47.3	0.21
XCYHQY		3,320.7	32.0	0.25	3,137.2	40.5	0.18
XDT9WD		3,289.2	0.5	0.00	2,979.1	-117.6	-0.53
YZJU9K		3,280.5	-8.2	-0.06	3,290.5	193.8	0.87

Summary Statistics

	Sample B11-B12	Sample K11-K12
Grand Means	3,288.71 psi	3,096.72 psi
Stnd Dev Btwn Labs	127.66 psi	223.07 psi

Statistics based on 29 of 29 reporting participants

Summary Statistics in SI Units		
Grand Means	22.675 MPa	21.35 MPa
Stnd Dev Btwn Labs	0.880 MPa	1.54 MPa

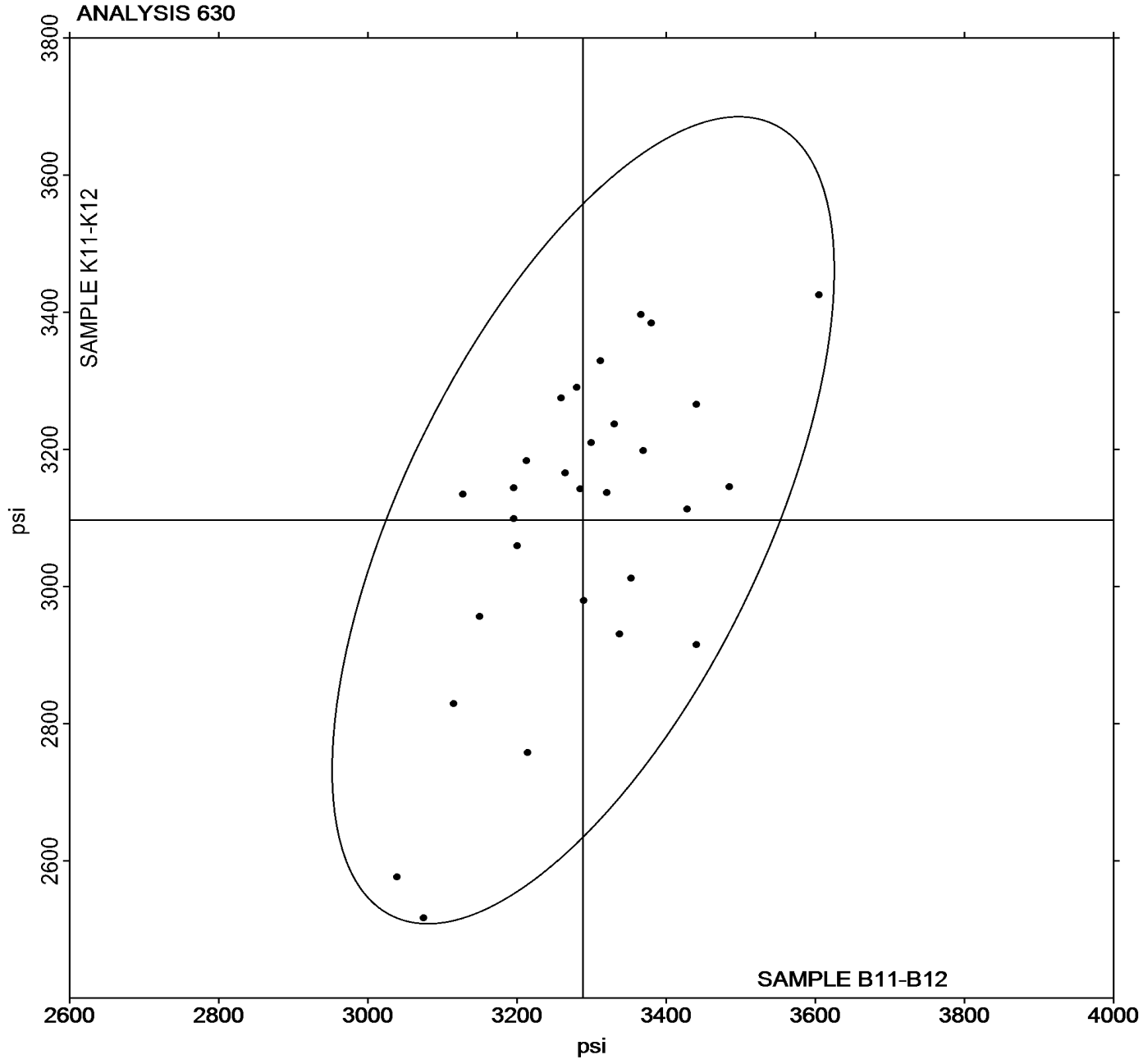
Statistics based on 29 of 29 reporting participants

Samples B11-B12: Polyisoprene compound, batch #1 & K11-K12: Polyisoprene compound, batch #1

Tensile Strength: Precured vs. Lab-Cured Samples (psi)

Grand Mean Sample **B11-B12** = 3,288.71 psi

Grand Mean Sample **K11-K12** = 3,096.72 psi



Ultimate Elongation: Precured vs. Lab-Cured Samples (percent)

WebCode	Data Flag	Sample B11-B12 Lab Mean	Sample B11-B12 Diff from Grand Mean	Sample B11-B12 CPV	Sample K11-K12 Lab Mean	Sample K11-K12 Diff from Grand Mean	Sample K11-K12 CPV
2NEJUU		636.0	21.3	0.96	584.5	2.5	0.10
3Q2MXL		616.0	1.3	0.06	594.0	12.0	0.48
6F9BGP		596.5	-18.2	-0.82	565.5	-16.5	-0.65
8ERQPR		594.5	-20.2	-0.91	591.0	9.0	0.36
8JKTTQ		581.5	-33.2	-1.49	551.0	-31.0	-1.22
9CJZZM		656.0	41.3	1.86	617.0	35.0	1.38
9JYGRX		613.0	-1.7	-0.07	597.5	15.5	0.61
9P4HRR		618.1	3.4	0.15	595.4	13.4	0.53
CF7MJL		565.2	-49.4	-2.22	529.8	-52.2	-2.06
DKFANA		634.5	19.8	0.89	629.0	47.0	1.86
EGVW7J		590.5	-24.2	-1.08	540.5	-41.5	-1.64
EVQ2RA		635.5	20.8	0.94	577.5	-4.5	-0.18
FVPJBQ		604.8	-9.8	-0.44	590.3	8.4	0.33
JBRQA4		602.5	-12.2	-0.55	586.5	4.5	0.18
KVT4J2		636.5	21.8	0.98	628.5	46.5	1.84
L2V99Z		649.9	35.2	1.58	582.7	0.7	0.03
MTF89G		621.5	6.8	0.31	583.5	1.5	0.06
PGWET7		637.5	22.8	1.03	610.5	28.5	1.13
PNU9MX		620.0	5.3	0.24	579.0	-3.0	-0.12
PYEBBK		615.5	0.8	0.04	579.5	-2.5	-0.10
R6XC8F		647.0	32.3	1.45	581.9	-0.1	0.00
RPZ7DK		608.0	-6.7	-0.30	551.0	-31.0	-1.22
RWZK28		612.5	-2.2	-0.10	596.0	14.0	0.55
UA2ZZ8		596.2	-18.5	-0.83	562.0	-20.0	-0.79
UJQNVA		603.0	-11.7	-0.52	568.5	-13.5	-0.53
VX3NZY		642.5	27.8	1.25	619.5	37.5	1.48
XCYHQY		606.0	-8.7	-0.39	546.5	-35.5	-1.40
XDT9WD		595.4	-19.3	-0.87	556.1	-25.9	-1.02
YZJU9K		589.0	-25.7	-1.15	582.5	0.5	0.02

Summary Statistics

	Sample B11-B12	Sample K11-K12
Grand Means	614.65 percent	581.97 percent
Stnd Dev Btwn Labs	22.26 percent	25.32 percent

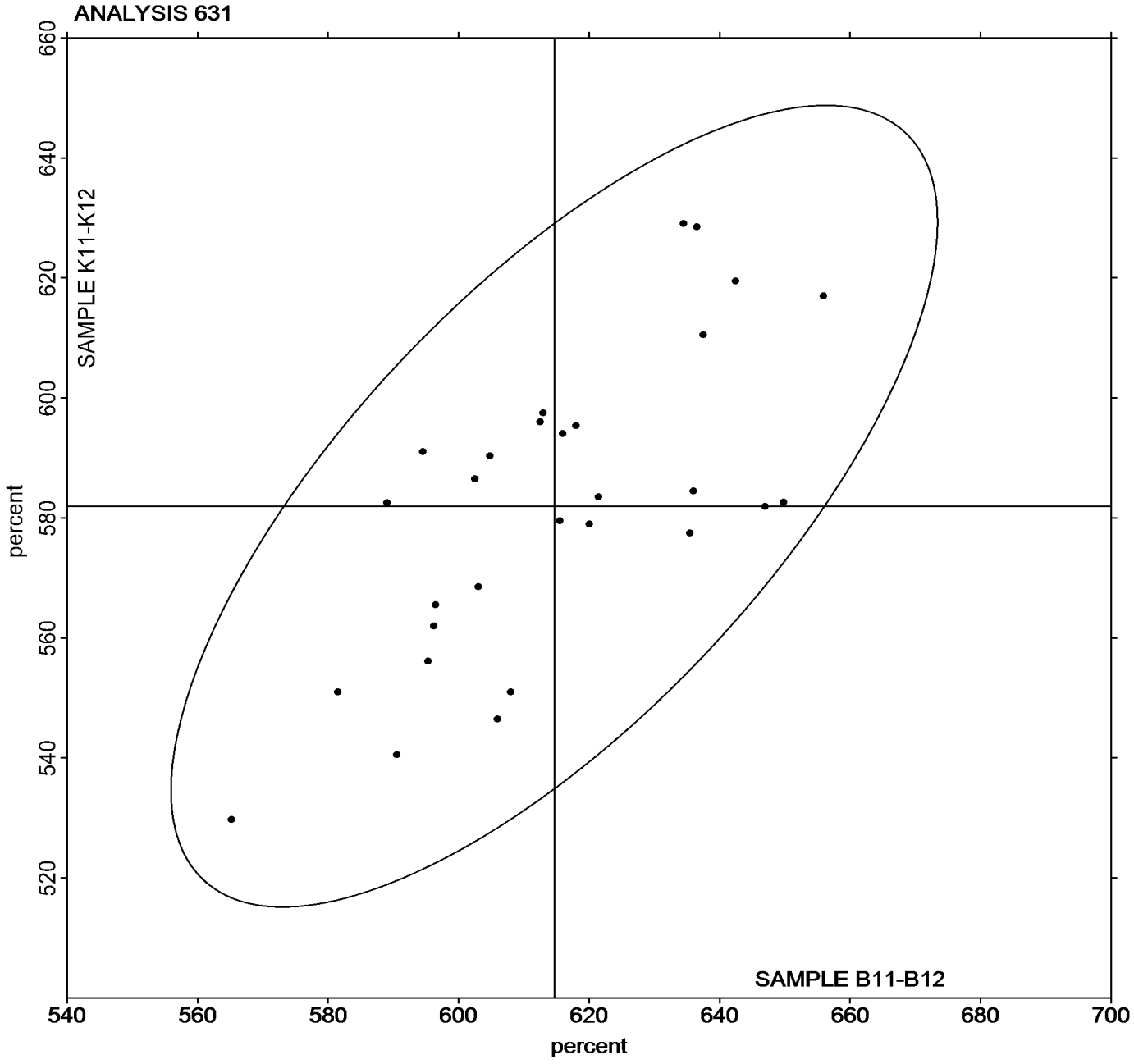
Statistics based on 29 of 29 reporting participants

Samples B11-B12: Polyisoprene compound, batch #1 & K11-K12: Polyisoprene compound, batch #1

Ultimate Elongation: Precured vs. Lab-Cured Samples (percent)

Grand Mean Sample **B11-B12** = 614.65 percent

Grand Mean Sample **K11-K12** = 581.97 percent



Stress at 300% Elongation: Precured vs. Lab-Cured Samples (psi)

WebCode	Data Flag	Sample B11-B12 Lab Mean	Sample B11-B12 Diff from Grand Mean	Sample B11-B12 CPV	Sample K11-K12 Lab Mean	Sample K11-K12 Diff from Grand Mean	Sample K11-K12 CPV
2NEJUU		969.5	1.6	0.03	1,039.0	14.9	0.16
3Q2MXL		895.5	-72.4	-1.35	1,068.0	43.9	0.47
6F9BGP		1,006.5	38.6	0.72	1,035.5	11.4	0.12
8ERQPR		1,054.0	86.1	1.61	1,004.0	-20.1	-0.21
8JKTTQ		1,021.7	53.8	1.00	1,156.7	132.6	1.41
9CJZZM		949.5	-18.4	-0.34	1,017.7	-6.4	-0.07
9JYGRX		934.0	-33.9	-0.63	1,006.5	-17.6	-0.19
9P4HRR		1,010.3	42.4	0.79	1,122.2	98.0	1.04
CF7MJL	X	1,208.7	240.8	4.50	1,245.7	221.6	2.36
DKFANA		915.3	-52.6	-0.98	993.8	-30.3	-0.32
EGVW7J		1,024.9	57.0	1.06	1,187.9	163.7	1.74
EVQ2RA		912.9	-55.0	-1.03	899.5	-124.6	-1.33
FVPJBQ		984.3	16.4	0.31	957.3	-66.8	-0.71
JBRQA4		929.0	-38.9	-0.73	813.7	-210.4	-2.24
KVT4J2		958.5	-9.4	-0.18	920.5	-103.6	-1.10
L2V99Z		921.7	-46.2	-0.86	973.2	-50.9	-0.54
MTF89G		984.6	16.7	0.31	1,101.7	77.6	0.83
PGWET7		914.0	-53.9	-1.01	945.0	-79.1	-0.84
PNU9MX		996.5	28.6	0.53	961.5	-62.6	-0.67
PYEBBK		983.5	15.6	0.29	1,018.5	-5.6	-0.06
R6XC8F		944.0	-23.9	-0.45	1,084.8	60.7	0.65
RPZ7DK		885.1	-82.7	-1.55	1,066.5	42.4	0.45
RWZK28		991.5	23.6	0.44	1,068.0	43.9	0.47
UA2ZZ8		992.8	24.9	0.47	855.7	-168.4	-1.79
UJQNVA		967.5	-0.4	-0.01	1,179.0	154.9	1.65
VX3NZY		841.0	-126.9	-2.37	930.0	-94.1	-1.00
XCYHQY		1,036.3	68.4	1.28	1,132.8	108.7	1.16
XDT9WD		1,054.5	86.6	1.62	1,098.5	74.4	0.79
YZJU9K		1,022.0	54.1	1.01	1,037.5	13.4	0.14

Summary Statistics

	Sample B11-B12	Sample K11-K12
Grand Means	967.89 psi	1,024.10 psi
Stnd Dev Btwn Labs	53.55 psi	93.87 psi

Statistics based on 28 of 29 reporting participants

Stress at 300% Elongation: Precured vs. Lab-Cured Samples (psi)

Summary Statistics in SI Units		
Grand Means	6.6733 MPa	7.06 MPa
Stnd Dev Btwn Labs	0.3692 MPa	0.65 MPa

Statistics based on 28 of 29 reporting participants

Samples B11-B12: Polyisoprene compound, batch #1 & K11-K12: Polyisoprene compound, batch #1

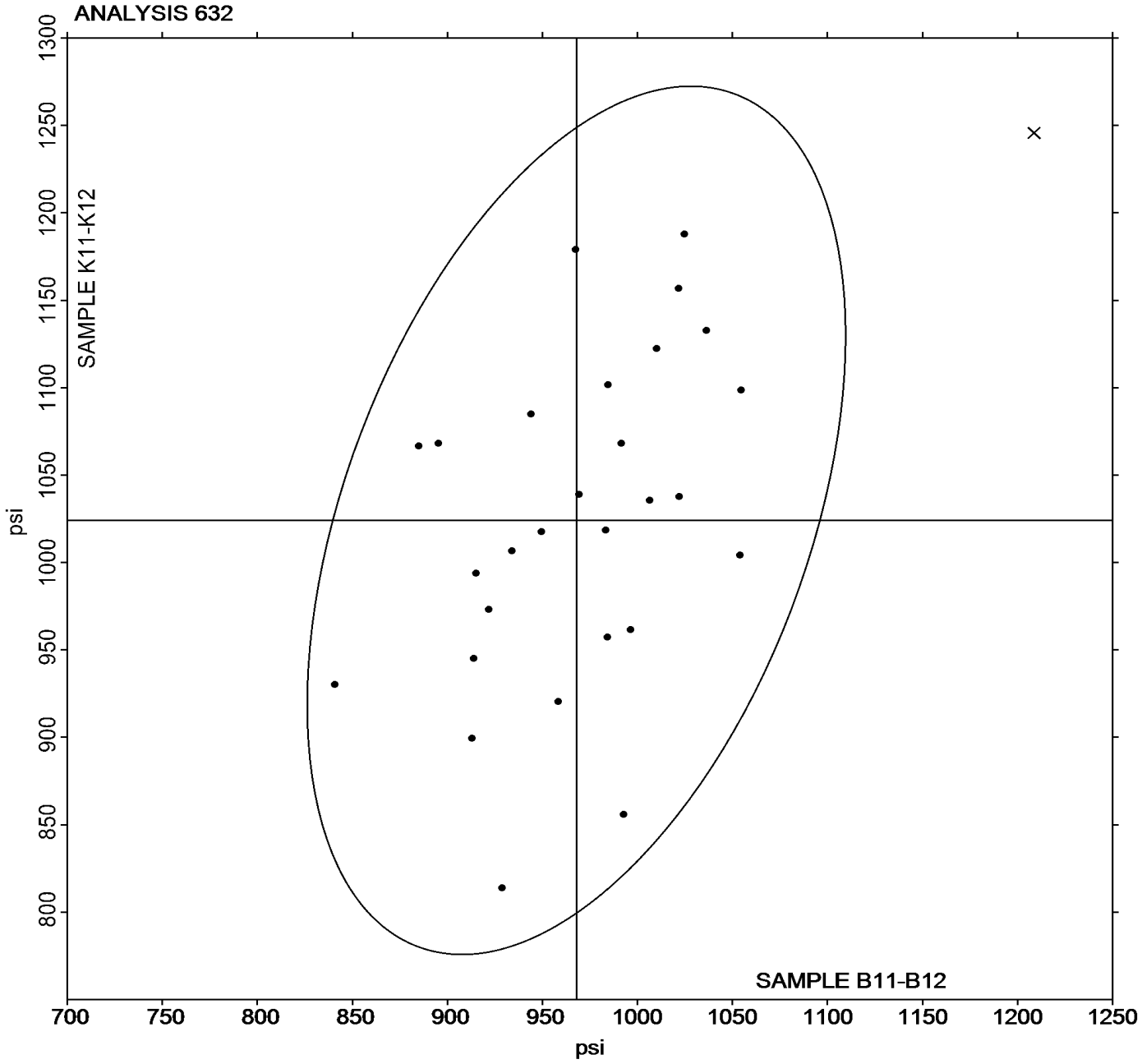
Comments on Assigned Data Flags for Test #632

CF7MJL (X) - Data for sample group B11-B12 are high.

Stress at 300% Elongation: Precured vs. Lab-Cured Samples (psi)

Grand Mean Sample **B11-B12** = 967.89 psi

Grand Mean Sample **K11-K12** = 1,024.10 psi



Stress at 100% Elongation: Precured vs. Lab-Cured Samples (psi)

WebCode	Data Flag	Sample B11-B12 Lab Mean	Sample B11-B12 Diff from Grand Mean	Sample B11-B12 CPV	Sample K11-K12 Lab Mean	Sample K11-K12 Diff from Grand Mean	Sample K11-K12 CPV
2NEJUU		207.5	-2.1	-0.17	230.0	4.8	0.24
3Q2MXL		199.0	-10.6	-0.87	239.5	14.3	0.70
6F9BGP		211.5	1.9	0.15	226.0	0.8	0.04
8ERQPR		226.0	16.4	1.34	224.5	-0.7	-0.04
8JKTTQ		210.6	0.9	0.08	243.7	18.5	0.91
9CJZZM		199.5	-10.2	-0.83	214.0	-11.2	-0.55
9JYGRX		216.0	6.4	0.52	230.0	4.8	0.24
9P4HRR		220.2	10.5	0.86	253.9	28.7	1.42
CF7MJL		232.5	22.9	1.87	243.7	18.5	0.91
DKFANA		228.4	18.8	1.53	244.8	19.5	0.97
EGVW7J		215.0	5.3	0.43	247.4	22.2	1.09
EVQ2RA		189.4	-20.2	-1.65	201.5	-23.7	-1.17
FVPJBQ		204.2	-5.5	-0.45	207.5	-17.7	-0.87
JBRQA4		218.3	8.7	0.71	194.4	-30.9	-1.52
KVT4J2		209.0	-0.6	-0.05	208.5	-16.7	-0.83
L2V99Z		190.0	-19.6	-1.60	195.8	-29.4	-1.45
MTF89G		197.2	-12.4	-1.01	221.7	-3.5	-0.17
PGWET7		193.5	-16.1	-1.32	200.0	-25.2	-1.25
PNU9MX		230.0	20.4	1.66	218.0	-7.2	-0.36
PYEBBK		199.5	-10.1	-0.83	215.5	-9.7	-0.48
R6XC8F		207.0	-2.6	-0.21	243.7	18.4	0.91
RPZ7DK		196.1	-13.6	-1.11	257.4	32.1	1.59
RWZK28		215.5	5.9	0.48	228.0	2.8	0.14
UA2ZZ8		211.0	1.4	0.11	183.5	-41.8	-2.06
UJQNVA		214.0	4.4	0.36	256.5	31.3	1.54
VX3NZY		190.0	-19.6	-1.60	209.5	-15.7	-0.78
XCYHQY		219.7	10.1	0.82	245.1	19.9	0.98
XDT9WD		219.2	9.6	0.78	234.3	9.1	0.45
YZJU9K		209.5	-0.1	-0.01	213.5	-11.7	-0.58

Summary Statistics

	Sample B11-B12	Sample K11-K12
Grand Means	209.63 psi	225.23 psi
Stnd Dev Btwn Labs	12.25 psi	20.26 psi

Statistics based on 29 of 29 reporting participants

Stress at 100% Elongation: Precured vs. Lab-Cured Samples (psi)

Summary Statistics in SI Units

Grand Means	1.4453 MPa	1.55 MPa
Stnd Dev Btwn Labs	0.0845 MPa	0.14 MPa

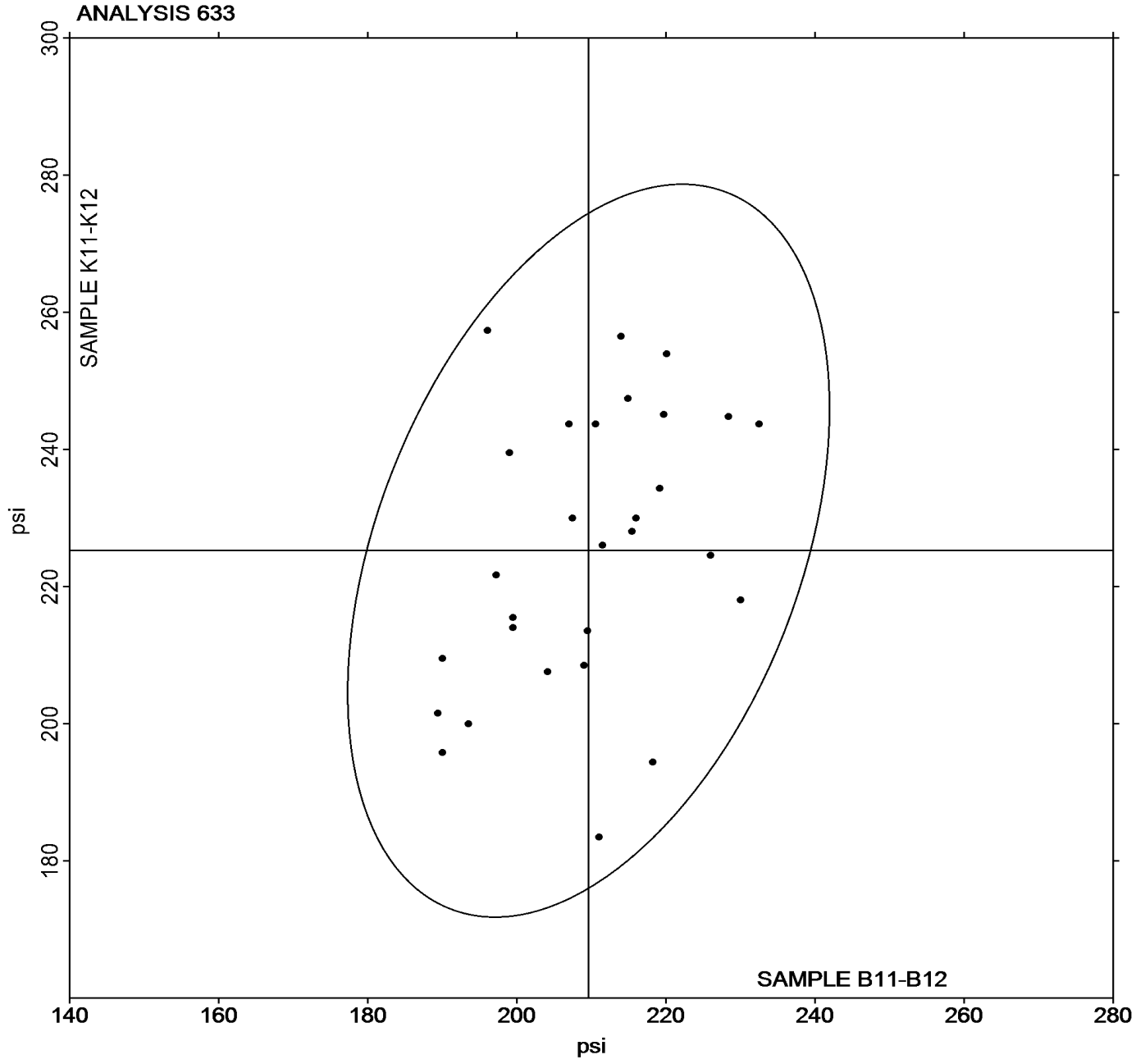
Statistics based on 29 of 29 reporting participants

Samples B11-B12: Polyisoprene compound, batch #1 & K11-K12: Polyisoprene compound, batch #1

Stress at 100% Elongation: Precured vs. Lab-Cured Samples (psi)

Grand Mean Sample **B11-B12** = 209.63 psi

Grand Mean Sample **K11-K12** = 225.23 psi



WebCode	Data Flag	Sample O11 Lab Mean	Sample O11 Diff from Grand Mean	Sample O11 CPV	Sample O12 Lab Mean	Sample O12 Diff from Grand Mean	Sample O12 CPV
2NEJUU	X	49.00	22.26	5.32	49.00	21.77	4.43
4W2GDY		22.87	-3.88	-0.93	22.20	-5.03	-1.02
6F9BGP		21.60	-5.14	-1.23	20.72	-6.51	-1.33
8ERQPR		25.67	-1.08	-0.26	25.67	-1.57	-0.32
8TAL33		24.33	-2.41	-0.58	24.33	-2.90	-0.59
9JYGRX		34.00	7.26	1.74	36.37	9.13	1.86
9P4HRR		29.33	2.59	0.62	28.90	1.67	0.34
ALN6PJ		25.00	-1.74	-0.42	26.33	-0.90	-0.18
C6PZAK		27.33	0.59	0.14	30.00	2.77	0.56
CF7MJL		27.02	0.28	0.07	26.70	-0.53	-0.11
CZRM69		18.22	-8.53	-2.04	20.03	-7.20	-1.47
EGVW7J		30.77	4.02	0.96	28.77	1.54	0.31
EJV6BU		24.33	-2.41	-0.58	24.33	-2.90	-0.59
F6BUFC		23.36	-3.38	-0.81	23.60	-3.64	-0.74
GCAUCJ		23.00	-3.74	-0.89	24.33	-2.90	-0.59
JDEZNB		28.00	1.26	0.30	27.00	-0.23	-0.05
JLBVQF		24.33	-2.41	-0.58	25.00	-2.23	-0.45
JX4HUP		24.67	-2.08	-0.50	26.67	-0.57	-0.12
KCZVPD		25.33	-1.41	-0.34	25.67	-1.57	-0.32
LA7MY9		20.78	-5.96	-1.43	19.46	-7.78	-1.58
LP2A4F	*	37.27	10.52	2.52	41.90	14.67	2.98
LYRTJA		36.00	9.26	2.21	38.00	10.77	2.19
PYEBBK		28.87	2.12	0.51	29.23	1.99	0.41
RJDK2R		32.63	5.89	1.41	33.93	6.70	1.36
RPZ7DK		24.72	-2.02	-0.48	27.58	0.35	0.07
RWZK28		28.87	2.13	0.51	27.48	0.24	0.05
T4HFEF		24.67	-2.08	-0.50	24.67	-2.57	-0.52
U72P48		25.77	-0.98	-0.23	26.70	-0.53	-0.11
XDT9WD		28.20	1.46	0.35	27.70	0.47	0.09
Y74642		29.00	2.26	0.54	31.33	4.10	0.83
YZJU9K		24.89	-1.85	-0.44	23.92	-3.32	-0.68
ZET3LU		27.00	0.26	0.06	24.67	-2.57	-0.52
ZW9M3X		27.93	1.19	0.28	28.33	1.10	0.22

Summary Statistics		
Grand Means		
	26.743 % Compression	27.235 % Compression
Stnd Dev Btwn Labs		
	4.182 % Compression	4.915 % Compression
		Statistics based on 32 of 33 reporting participants

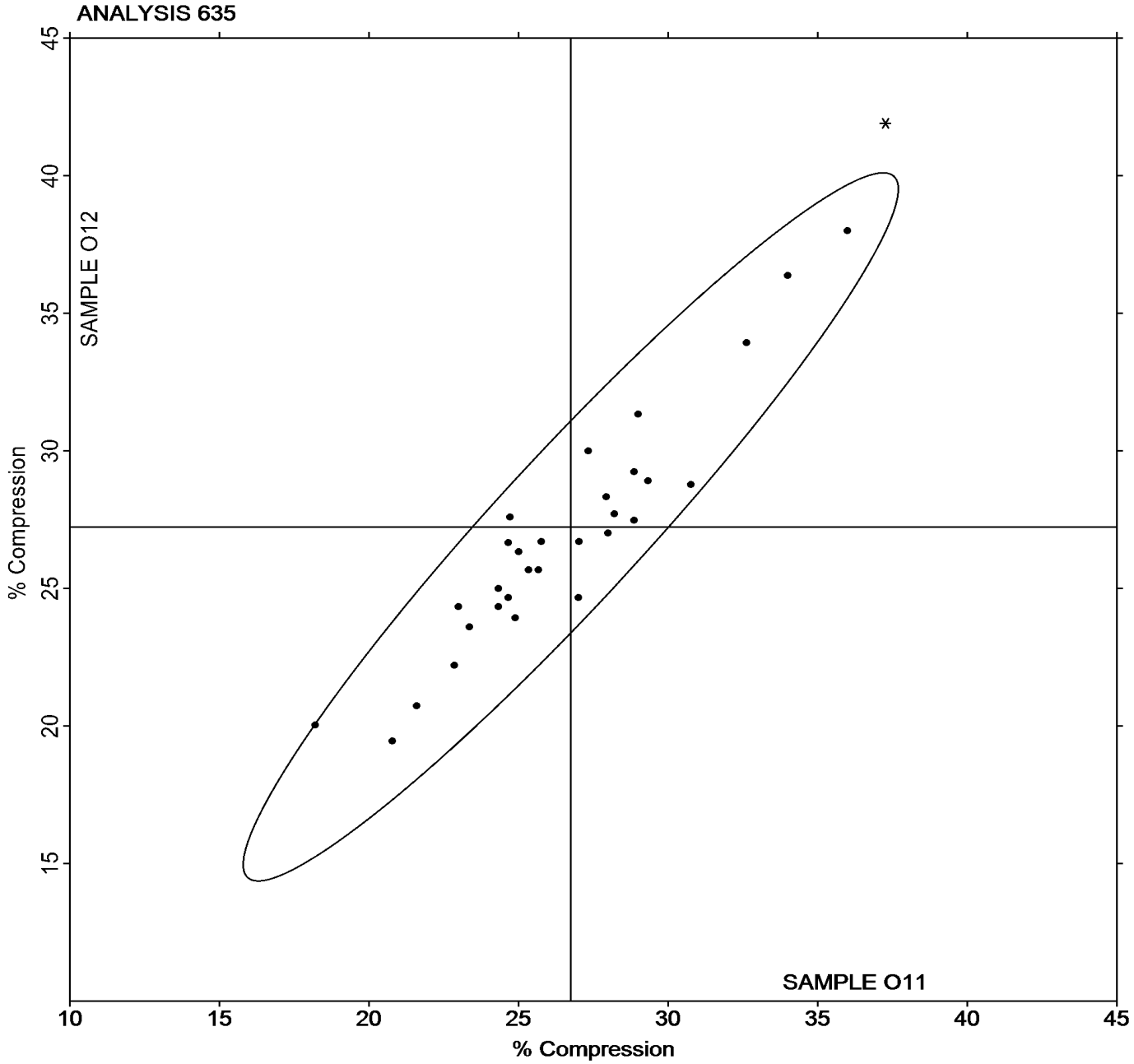
Samples O11: EPDM compound, batch #1 & O12: EPDM compound, batch #2

Comments on Assigned Data Flags for Test #635

2NEJUU (X) - Data for all samples are high. Possible Systematic Error.

Grand Mean Sample **O11** = 26.743 % Compression

Grand Mean Sample **O12** = 27.235 % Compression



Mooney Viscosity: 4-minute readings (ML 1 + 4)

WebCode	Data Flag	Sample T11-T12 Lab Mean	Diff from Grand Mean	CPV	Sample T13-T14 Lab Mean	Diff from Grand Mean	CPV	Instr Code
2NEJUU		45.23	0.04	0.03	54.83	-0.73	-0.63	MR
2XMFER		45.12	-0.08	-0.06	55.97	0.40	0.35	MR
3Q2MXL		42.54	-2.66	-2.05	53.55	-2.02	-1.74	MV
4TNJ4Q		44.40	-0.80	-0.61	55.17	-0.40	-0.34	MR
6F9BGP		44.43	-0.76	-0.59	54.32	-1.25	-1.07	MR
78A2PQ		46.47	1.27	0.98	55.80	0.24	0.20	MP
8JKTTQ		44.70	-0.50	-0.38	56.55	0.99	0.85	MR
9CDTNE	*	48.75	3.55	2.73	58.31	2.75	2.36	MR
9CJZZM	*	42.42	-2.78	-2.14	54.92	-0.65	-0.56	MV
9P4HRR		45.37	0.17	0.13	55.15	-0.41	-0.35	MR
BCBFKJ		44.45	-0.75	-0.58	53.23	-2.33	-2.00	MR
DBRDMA		46.98	1.79	1.37	55.75	0.19	0.16	MR
DKFANA		46.13	0.93	0.71	56.53	0.97	0.83	XX
DQL3H7		45.10	-0.10	-0.08	55.25	-0.31	-0.27	MR
EVQ2RA		44.78	-0.42	-0.32	55.17	-0.40	-0.34	MZ
FRA9XM		45.30	0.10	0.08	56.73	1.17	1.01	MR
FVPLZV	*	46.84	1.65	1.27	58.45	2.88	2.48	TA
JBRQA4		43.35	-1.84	-1.42	54.65	-0.91	-0.78	MV
KVT4J2		46.33	1.14	0.87	55.67	0.10	0.09	MV
LP2A4F		44.60	-0.60	-0.46	56.00	0.44	0.38	MR
MTF89G		45.68	0.49	0.37	55.73	0.17	0.15	MR
PGWET7		46.27	1.07	0.82	55.77	0.21	0.18	MR
PNU9MX		46.13	0.94	0.72	55.55	-0.01	-0.01	XX
R6XC8F		45.43	0.23	0.18	55.24	-0.32	-0.28	MR
RWZK28		44.21	-0.99	-0.76	55.87	0.31	0.26	ML
T4HFEF		46.14	0.94	0.73	56.52	0.95	0.82	MR
T7M4U7		46.02	0.82	0.63	56.57	1.01	0.87	MV
UA2ZZ8		43.35	-1.85	-1.42	53.45	-2.11	-1.82	MR
UJQNVA		45.00	-0.20	-0.15	55.45	-0.11	-0.10	MR
UWC296		45.38	0.19	0.14	56.30	0.74	0.64	MR
UZD8NB		45.30	0.10	0.08	55.62	0.05	0.05	MR
XCYHQY		45.68	0.49	0.37	55.67	0.10	0.09	MR
YZJU9K		43.65	-1.55	-1.19	53.83	-1.73	-1.49	ML
ZWT786	M	45.50	0.30	0.23	No data reported for this sample			XX

Summary Statistics		
Grand Means	45.198 ML 1 + 4	55.562 ML 1 + 4
Stnd Dev Btwn Labs	1.300 ML 1 + 4	1.162 ML 1 + 4
		Statistics based on 33 of 34 reporting participants

Samples T11-T12: NBR & T13-T14: Butyl

Comments on Assigned Data Flags for Test #660

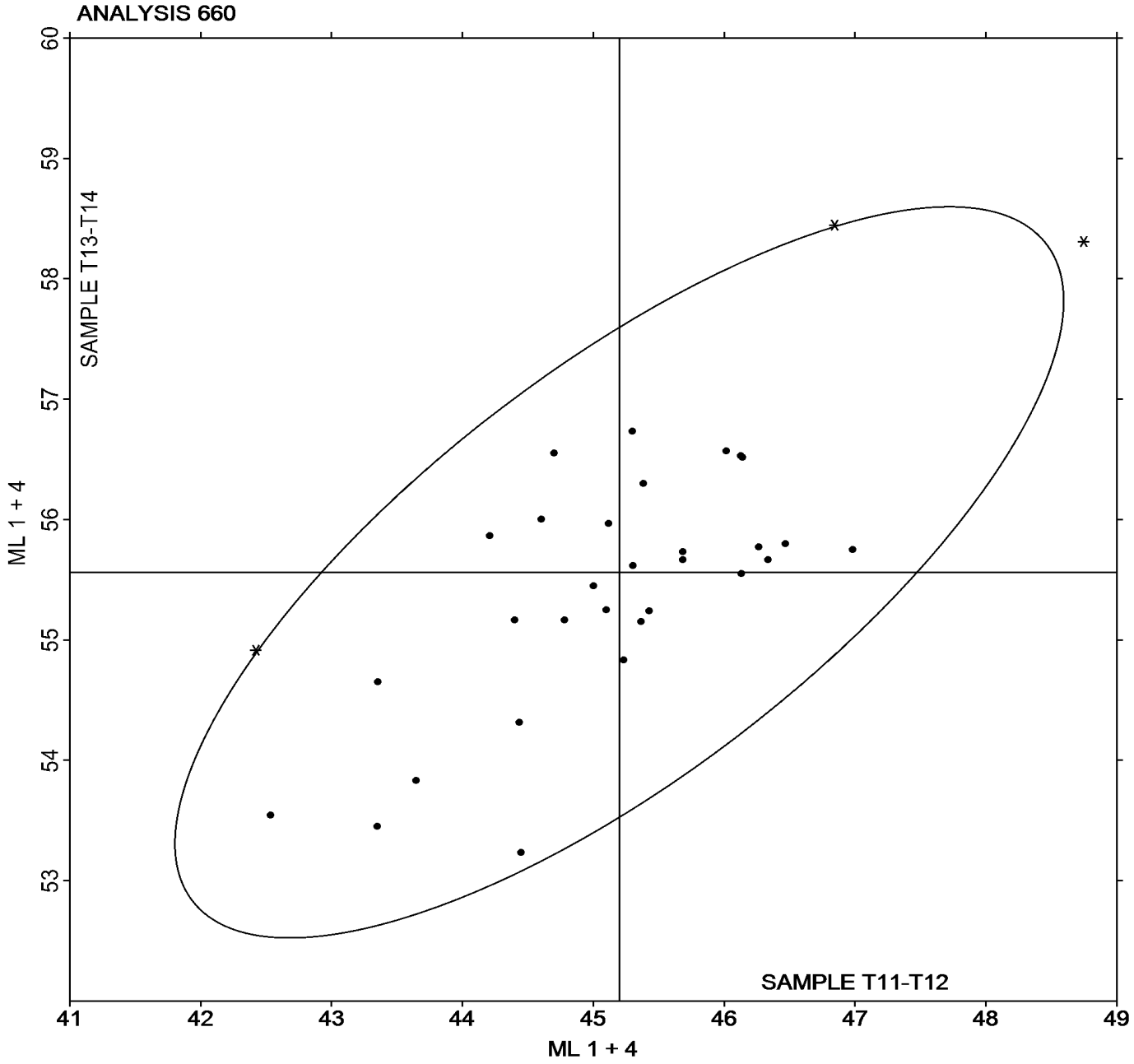
ZWT786 (M) - Participant did not submit data for sample group T13-T14.

Key to Instrument Codes Reported by Participants

ML	Alpha Technologies/Monsanto model not specified	MP	Monsanto Compact Mooney Viscometer
MR	Alpha Technologies Model MV2000/MV2000E	MV	MonTech
MZ	Rebuilt Monsanto Mooney Viscometer	TA	TA Instruments (any model)
XX	Instrument make/model not specified by lab		

Grand Mean Sample **T11-T12** = 45.198 ML 1 + 4

Grand Mean Sample **T13-T14** = 55.562 ML 1 + 4



Mooney Viscosity: 4-min NBR/SBR & 8-min butyl readings (ML)

WebCode	Data Flag	Sample T11-T12 Lab Mean	Diff from Grand Mean	CPV	Sample T13-T14 Lab Mean	Diff from Grand Mean	CPV	Instr Code
2NEJUU		45.23	0.10	0.07	52.11	-0.93	-0.96	MR
2XMFER		45.12	-0.02	-0.02	53.20	0.16	0.17	MR
3Q2MXL		42.54	-2.60	-1.92	51.90	-1.14	-1.17	MV
4TNJ4Q		44.40	-0.74	-0.55	52.60	-0.44	-0.45	MR
6F9BGP		44.43	-0.70	-0.52	54.55	1.51	1.56	MR
78A2PQ		46.47	1.33	0.98	52.23	-0.80	-0.83	MP
8JKTTQ		44.70	-0.44	-0.32	53.98	0.95	0.97	MR
9CDTNE	*	48.75	3.61	2.67	55.04	2.00	2.06	MR
9CJZZM		42.42	-2.72	-2.01	53.15	0.11	0.12	MV
9P4HRR		45.37	0.23	0.17	52.87	-0.17	-0.18	MR
BCBFKJ		44.45	-0.69	-0.51	50.98	-2.05	-2.11	MR
DBRDMA		46.98	1.85	1.36	53.23	0.20	0.20	MR
DKFANA		46.13	0.99	0.73	53.19	0.15	0.15	XX
EVQ2RA		44.78	-0.36	-0.26	52.55	-0.49	-0.50	MZ
FVPLZV	X	46.84	1.71	1.26	58.78	5.74	5.90	TA
JBRQA4		43.35	-1.78	-1.32	52.76	-0.28	-0.29	MV
KVT4J2		46.33	1.20	0.88	53.86	0.82	0.84	MV
LP2A4F		44.60	-0.54	-0.40	53.90	0.86	0.89	MR
MTF89G		45.68	0.55	0.40	52.88	-0.15	-0.16	MR
PGWET7		46.27	1.13	0.83	53.20	0.16	0.17	MR
PNU9MX		46.13	1.00	0.74	52.77	-0.27	-0.28	XX
R6XC8F		45.43	0.29	0.22	52.85	-0.19	-0.19	MR
RWZK28		44.21	-0.93	-0.69	53.25	0.21	0.22	ML
T4HFEF		46.14	1.00	0.74	53.70	0.66	0.68	MR
T7M4U7		46.02	0.88	0.65	54.94	1.90	1.96	MV
UA2ZZ8		43.35	-1.79	-1.32	50.98	-2.05	-2.11	MR
UJQNVA		45.00	-0.14	-0.10	53.40	0.36	0.37	MR
UWC296		45.38	0.25	0.18	53.15	0.11	0.12	MR
XCYHQY		45.68	0.55	0.40	53.08	0.05	0.05	MR
YZJU9K		43.65	-1.49	-1.10	51.79	-1.25	-1.29	ML

Summary Statistics

	Sample T11-T12	Sample T13-T14
Grand Means	45.138 ML 1 + 8	53.038 ML 1 + 8
Stnd Dev Btwn Labs	1.352 ML 1 + 8	0.972 ML 1 + 8

Statistics based on 29 of 30 reporting participants

Samples T11-T12: NBR & T13-T14: Butyl

Comments on Assigned Data Flags for Test #661

FVPLZV (X) - Data for sample group T13-T14 are high.

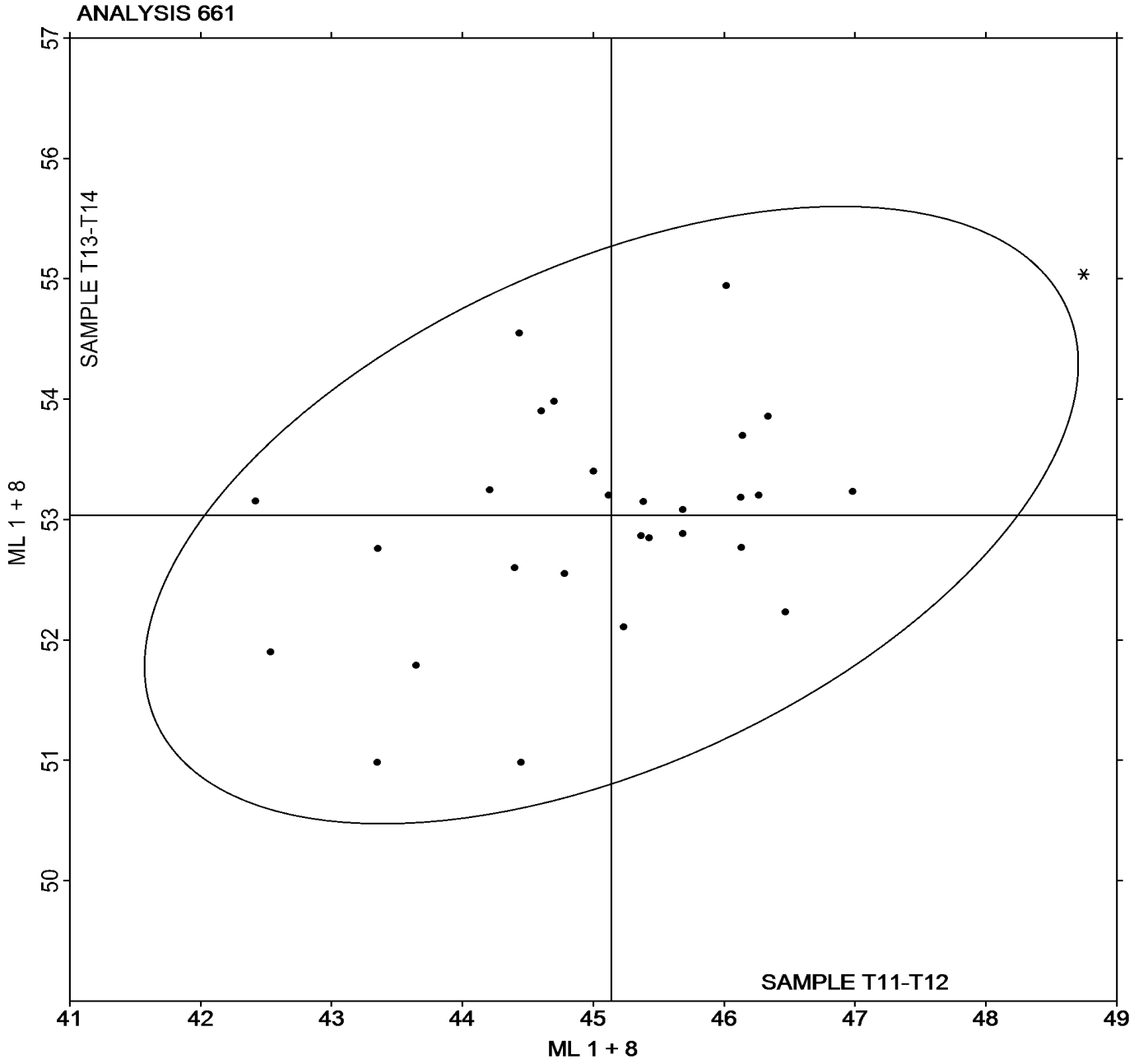
Key to Instrument Codes Reported by Participants

ML	Alpha Technologies/Monsanto model not specified	MP	Monsanto Compact Mooney Viscometer
MR	Alpha Technologies Model MV2000/MV2000E	MV	Montech
MZ	Rebuilt Monsanto Mooney Viscometer	TA	TA Instruments (any model)
XX	Instrument make/model not specified by lab		

Mooney Viscosity: 4-min NBR/SBR & 8-min butyl readings (ML)

Grand Mean Sample **T11-T12** = 45.138 ML 1 + 8

Grand Mean Sample **T13-T14** = 53.038 ML 1 + 8



Mooney Stress Relaxation: t80 (seconds)

WebCode	Data Flag	Sample T11-T12 Lab Mean	Sample T11-T12 Diff from Grand Mean	Sample T11-T12 CPV	Sample T13-T14 Lab Mean	Sample T13-T14 Diff from Grand Mean	Sample T13-T14 CPV	Instr Code
3Q2MXL		3.433	-1.460	-1.73	6.967	-0.375	-0.53	MV
4TNJ4Q		5.000	0.107	0.13	8.133	0.792	1.12	MR
9CDTNE		5.218	0.325	0.39	7.385	0.043	0.06	MR
9CJZZM	X	306.333	301.440	357.18	311.000	303.658	428.95	MV
9P4HRR		5.483	0.590	0.70	7.480	0.138	0.20	MR
DBRDMA		4.807	-0.086	-0.10	6.800	-0.542	-0.77	MR
DKFANA		5.000	0.107	0.13	8.500	1.158	1.64	XX
EVQ2RA		2.700	-2.193	-2.60	5.800	-1.542	-2.18	MZ
JBRQA4		3.600	-1.293	-1.53	6.000	-1.342	-1.90	MV
KVT4J2		5.767	0.874	1.04	8.333	0.992	1.40	MV
MTF89G		5.440	0.547	0.65	7.443	0.102	0.14	MR
PNU9MX		5.733	0.840	1.00	7.567	0.225	0.32	XX
RWZK28		5.039	0.146	0.17	7.468	0.127	0.18	ML
T4HFEF	X	14.342	9.449	11.20	12.612	5.270	7.44	MR
UA2ZZ8		5.180	0.287	0.34	7.170	-0.172	-0.24	MR
UJQNVA		5.060	0.167	0.20	7.217	-0.125	-0.18	MR
UZD8NB		5.400	0.507	0.60	7.900	0.558	0.79	MR
XCYHQY		5.170	0.277	0.33	7.330	-0.012	-0.02	MR
YZJU9K		5.148	0.255	0.30	7.317	-0.025	-0.04	ML

Summary Statistics

	Sample T11-T12	Sample T13-T14
Grand Means	4.8929 seconds	7.3418 seconds
Stnd Dev Btwn Labs	0.8439 seconds	0.7079 seconds

Statistics based on 17 of 19 reporting participants

Samples T11-T12: NBR & T13-T14: Butyl

Comments on Assigned Data Flags for Test #662

9CJZZM (X) - Extreme Data.

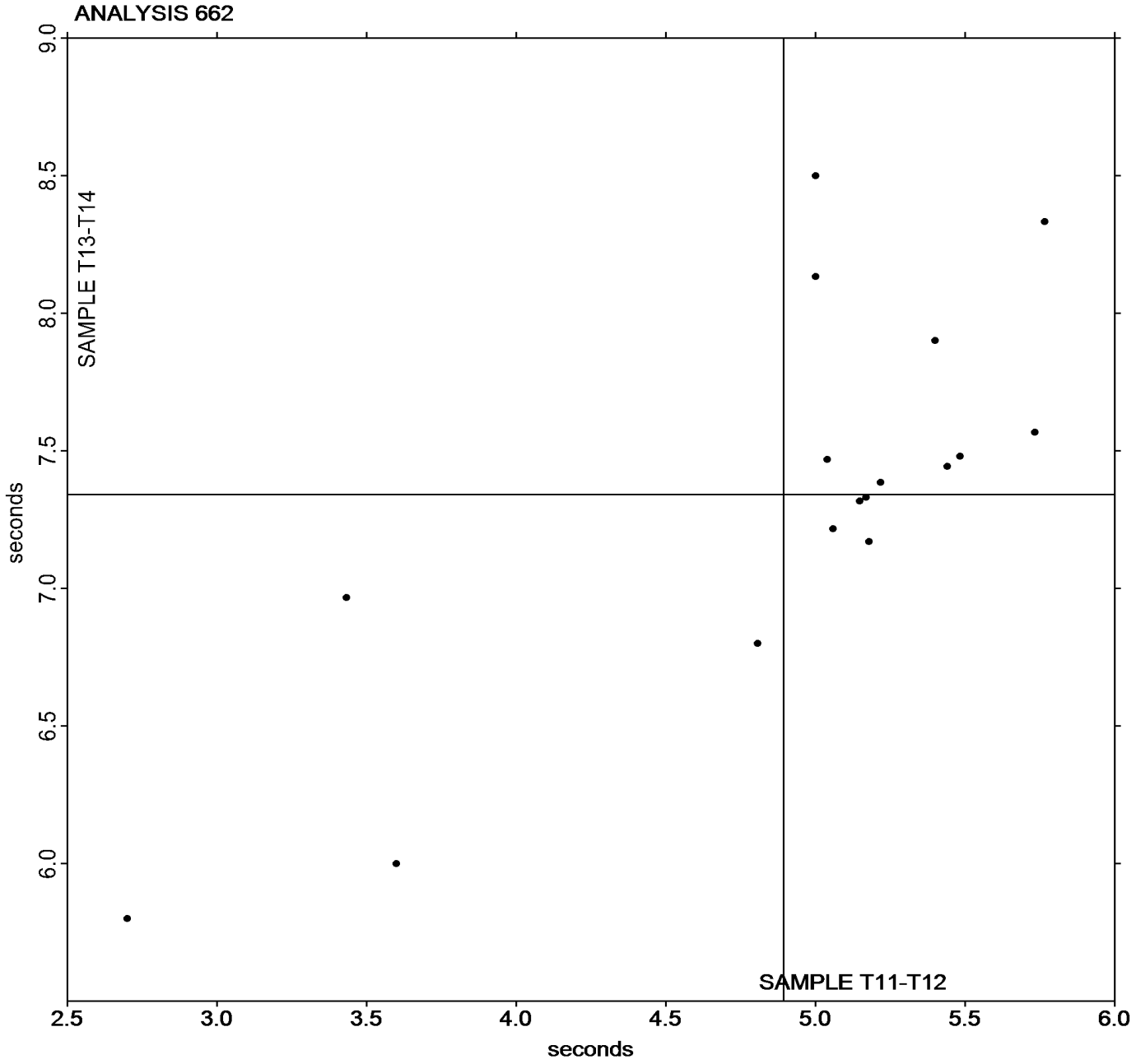
T4HFEF (X) - Data for all Samples are high.Inconsistency in testing between group T11-T12.

Key to Instrument Codes Reported by Participants

ML	Alpha Technologies/Monsanto model not specified	MR	Alpha Technologies Model MV2000/MV2000E
MV	MonTech	MZ	Rebuilt Monsanto Mooney Viscometer
XX	Instrument make/model not specified by lab		

Grand Mean Sample **T11-T12** = 4.8929 seconds

Grand Mean Sample **T13-T14** = 7.3418 seconds



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 T11-T12 Lab Mean	Diff from Grand Mean	CPV	Sample T13-T14 Lab Mean	Diff from Grand Mean	CPV	Instr Code
3Q2MXL		94.47	3.36	1.05	93.63	1.15	0.70	MV
4TNJ4Q		91.38	0.27	0.08	91.73	-0.75	-0.46	MR
9CDTNE	*	82.15	-8.96	-2.81	89.68	-2.80	-1.71	MR
9CJZZM		93.62	2.50	0.79	94.11	1.63	0.99	MV
9P4HRR		90.15	-0.96	-0.30	92.18	-0.30	-0.18	MR
DBRDMA		91.59	0.48	0.15	93.20	0.72	0.44	MR
DKFANA		91.70	0.59	0.18	91.63	-0.85	-0.52	XX
EVQ2RA		95.79	4.68	1.47	95.02	2.54	1.55	MZ
JBRQA4		95.83	4.72	1.48	96.00	3.52	2.15	MV
KVT4J2		89.95	-1.16	-0.37	90.73	-1.75	-1.07	MV
MTF89G		90.76	-0.35	-0.11	92.37	-0.11	-0.07	MR
PNU9MX		90.23	-0.88	-0.28	92.05	-0.43	-0.26	XX
RWZK28		91.82	0.70	0.22	92.38	-0.10	-0.06	ML
T4HFEF		86.05	-5.06	-1.59	89.42	-3.06	-1.87	MR
UA2ZZ8		91.50	0.39	0.12	92.94	0.46	0.28	MR
UJQNVA		90.93	-0.18	-0.06	92.42	-0.06	-0.04	MR
XCYHQY		90.69	-0.42	-0.13	92.28	-0.20	-0.12	MR
YZJU9K		91.41	0.30	0.09	92.85	0.37	0.23	ML

Summary Statistics

	Sample T11-T12	Sample T13-T14
Grand Means	91.113 percent	92.479 percent
Stnd Dev Btwn Labs	3.185 percent	1.637 percent

Statistics based on 18 of 18 reporting participants

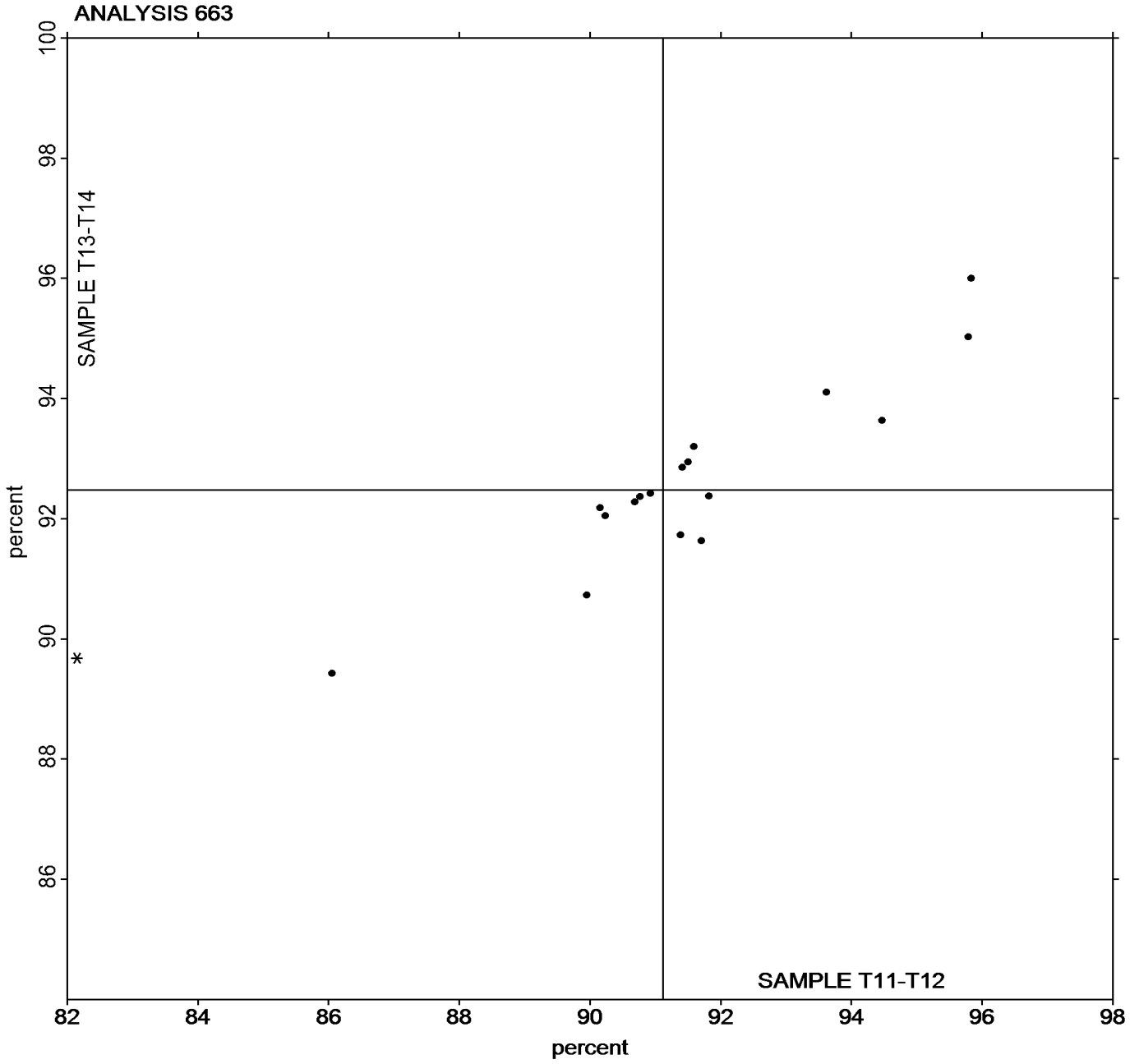
Samples T11-T12: NBR & T13-T14: Butyl

Key to Instrument Codes Reported by Participants

ML	Alpha Technologies/Monsanto model not specified	MR	Alpha Technologies Model MV2000/MV2000E
MV	Montech	MZ	Rebuilt Monsanto Mooney Viscometer
XX	Instrument make/model not specified by lab		

Grand Mean Sample **T11-T12** = 91.113 percent

Grand Mean Sample **T13-T14** = 92.479 percent



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

Mooney Stress Relaxation: Area under curve (M-s)

WebCode	Data Flag	Sample T11-T12 Lab Mean	Sample T11-T12 Diff from Grand Mean	Sample T11-T12 CPV	Sample T13-T14 Lab Mean	Sample T13-T14 Diff from Grand Mean	Sample T13-T14 CPV	Instr Code
3Q2MXL		240.8	-149.3	-1.40	364.4	-75.3	-0.87	MV
4TNJ4Q		413.3	23.2	0.22	514.3	74.7	0.86	MR
9CDTNE		438.7	48.5	0.46	492.0	52.3	0.60	MR
9CJZZM		276.2	-114.0	-1.07	349.3	-90.3	-1.04	MV
9P4HRR		484.4	94.2	0.88	469.2	29.6	0.34	MR
DKFANA		412.5	22.4	0.21	535.0	95.4	1.10	XX
EVQ2RA		176.1	-214.1	-2.01	303.5	-136.2	-1.57	MZ
JBRQA4		168.7	-221.4	-2.08	221.7	-217.9	-2.51	MV
KVT4J2		504.3	114.1	1.07	554.1	114.5	1.32	MV
MTF89G		453.2	63.0	0.59	463.0	23.4	0.27	MR
PNU9MX		487.3	97.2	0.91	475.5	35.9	0.41	XX
RWZK28		423.1	32.9	0.31	506.9	67.3	0.78	ML
T4HFEF		451.6	61.4	0.58	462.5	22.9	0.26	MR
UA2ZZ8		398.3	8.2	0.08	416.0	-23.6	-0.27	XX
UJQNVA		442.2	52.0	0.49	459.3	19.7	0.23	MR
XCYHQY		459.4	69.3	0.65	468.3	28.7	0.33	MR
YZJU9K		402.6	12.4	0.12	418.6	-21.0	-0.24	ML
ZWT786	M	365.0	-25.2	-0.24	No data reported for this sample			XX

Summary Statistics

	Sample T11-T12	Sample T13-T14
Grand Means	390.15 M-s	439.64 M-s
Stnd Dev Btwn Labs	106.49 M-s	86.72 M-s

Statistics based on 17 of 18 reporting participants

Samples T11-T12: NBR & T13-T14: Butyl

Comments on Assigned Data Flags for Test #664

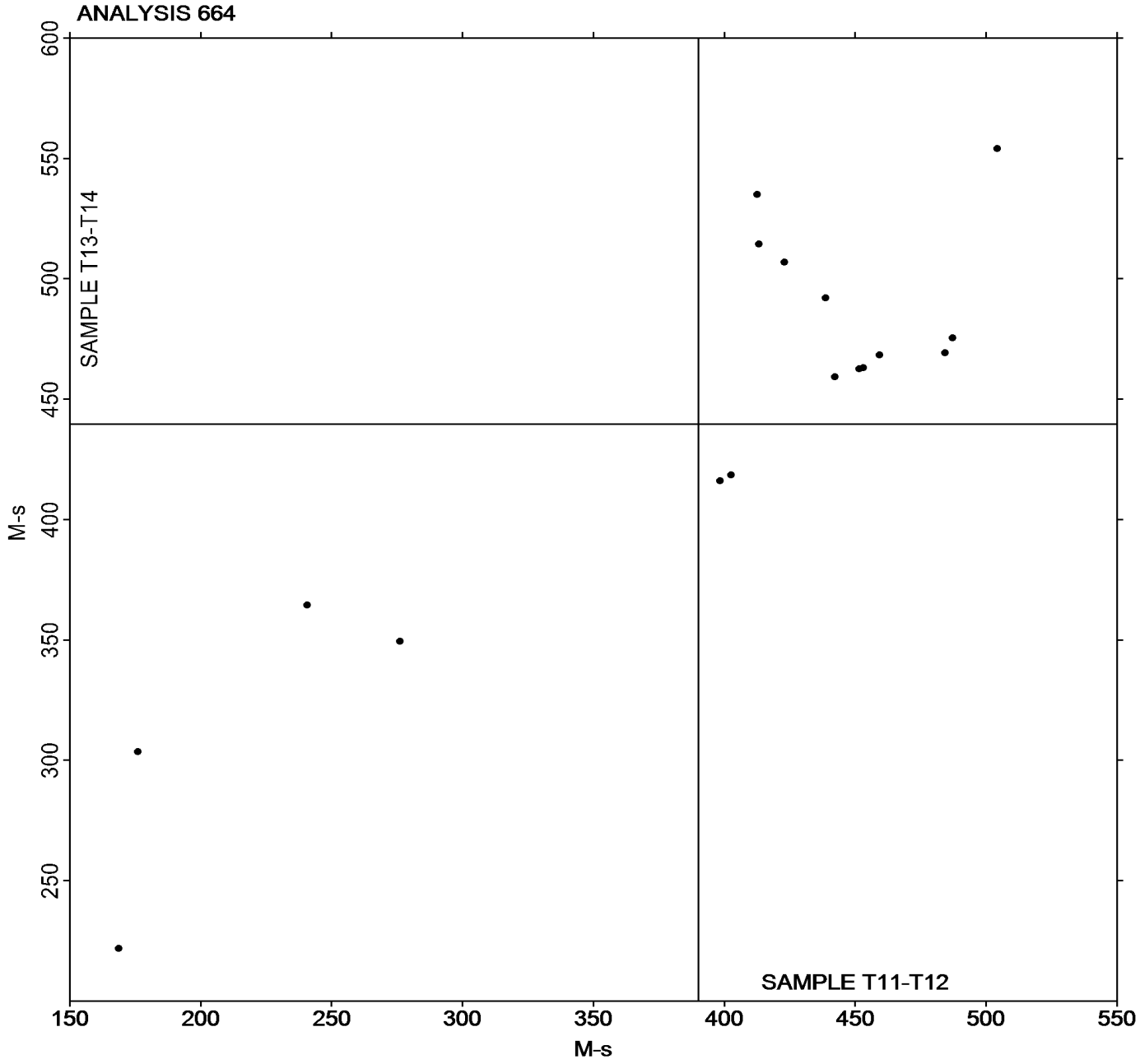
ZWT786 (M) - Participant did not submit data for sample group T13-T14.

Key to Instrument Codes Reported by Participants

ML	Alpha Technologies/Monsanto model not specified	MR	Alpha Technologies Model MV2000/MV2000E
MV	MonTech	MZ	Rebuilt Mooney Viscometer
XX	Instrument make/model not specified by lab		

Grand Mean Sample **T11-T12** = 390.15 M-s

Grand Mean Sample **T13-T14** = 439.64 M-s



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 X11-X12 Lab Mean	Diff from Grand Mean	CPV	Sample X13-X14 Lab Mean	Diff from Grand Mean	CPV
3Q2MXL		1.928	-0.025	-0.14	3.328	-0.168	-0.65
BCBFKJ		2.185	0.232	1.33	3.873	0.377	1.46
CF7MJL		1.938	-0.015	-0.08	3.458	-0.038	-0.15
R6XC8F		1.760	-0.193	-1.10	3.325	-0.171	-0.66

Summary Statistics

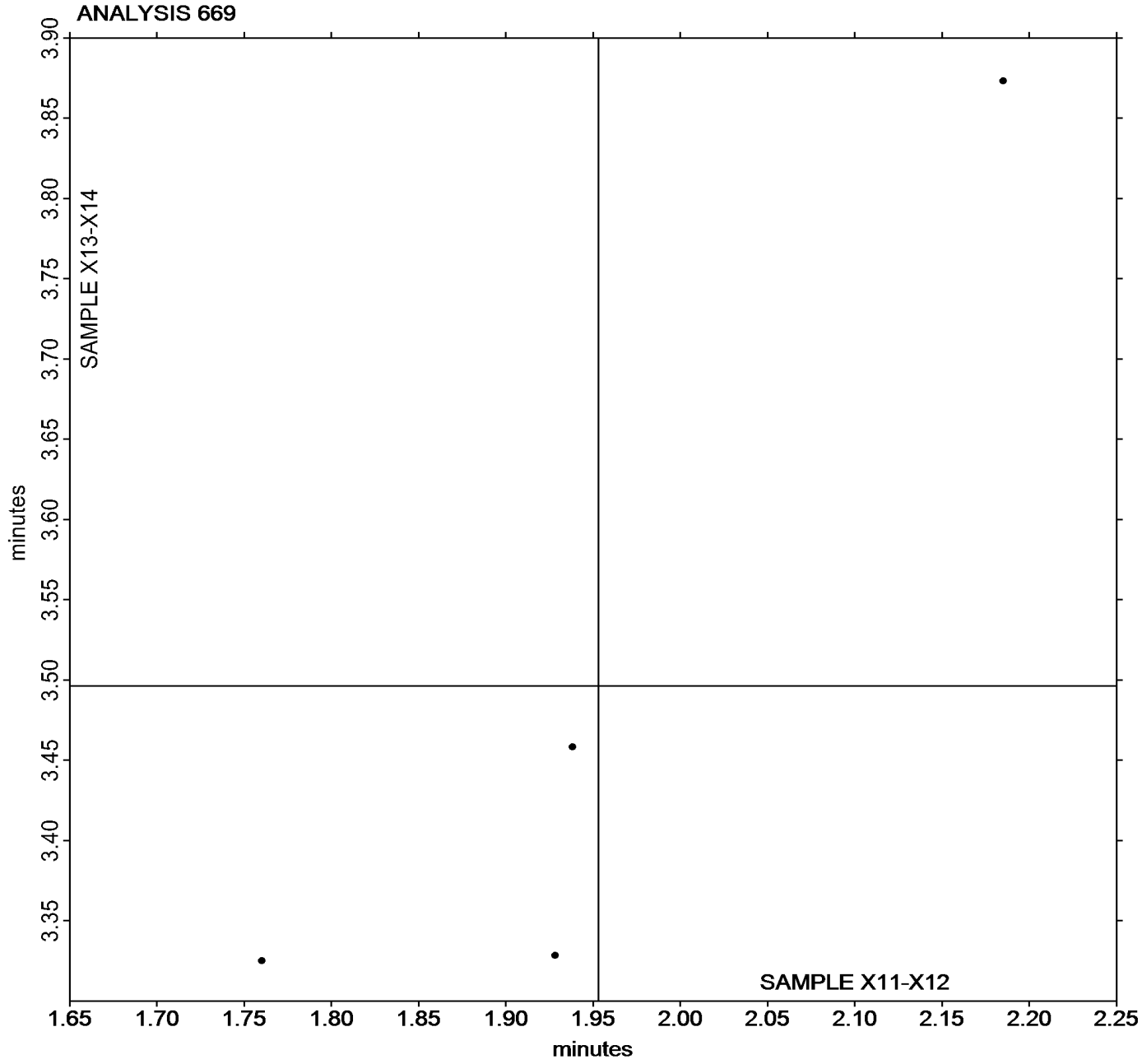
	Sample X11-X12	Sample X13-X14
Grand Means	1.9529 minutes	3.4963 minutes
Stnd Dev Btwn Labs	0.1750 minutes	0.2589 minutes

Statistics based on 4 of 4 reporting participants

Samples X11-X12: EPDM compound, batch #1 & X13-X14: EPDM compound, batch #2

Grand Mean Sample **X11-X12** = 1.9529 minutes

Grand Mean Sample **X13-X14** = 3.4963 minutes



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 X11-X12 Lab Mean	Diff from Grand Mean	CPV	Sample X13-X14 Lab Mean	Diff from Grand Mean	CPV
3Q2MXL		1.423	-0.028	-0.17	2.370	-0.087	-0.49
BCBFKJ		1.632	0.180	1.06	2.720	0.263	1.49
CF7MJL		1.520	0.068	0.40	2.398	-0.059	-0.33
R6XC8F		1.232	-0.220	-1.30	2.340	-0.117	-0.66

Summary Statistics

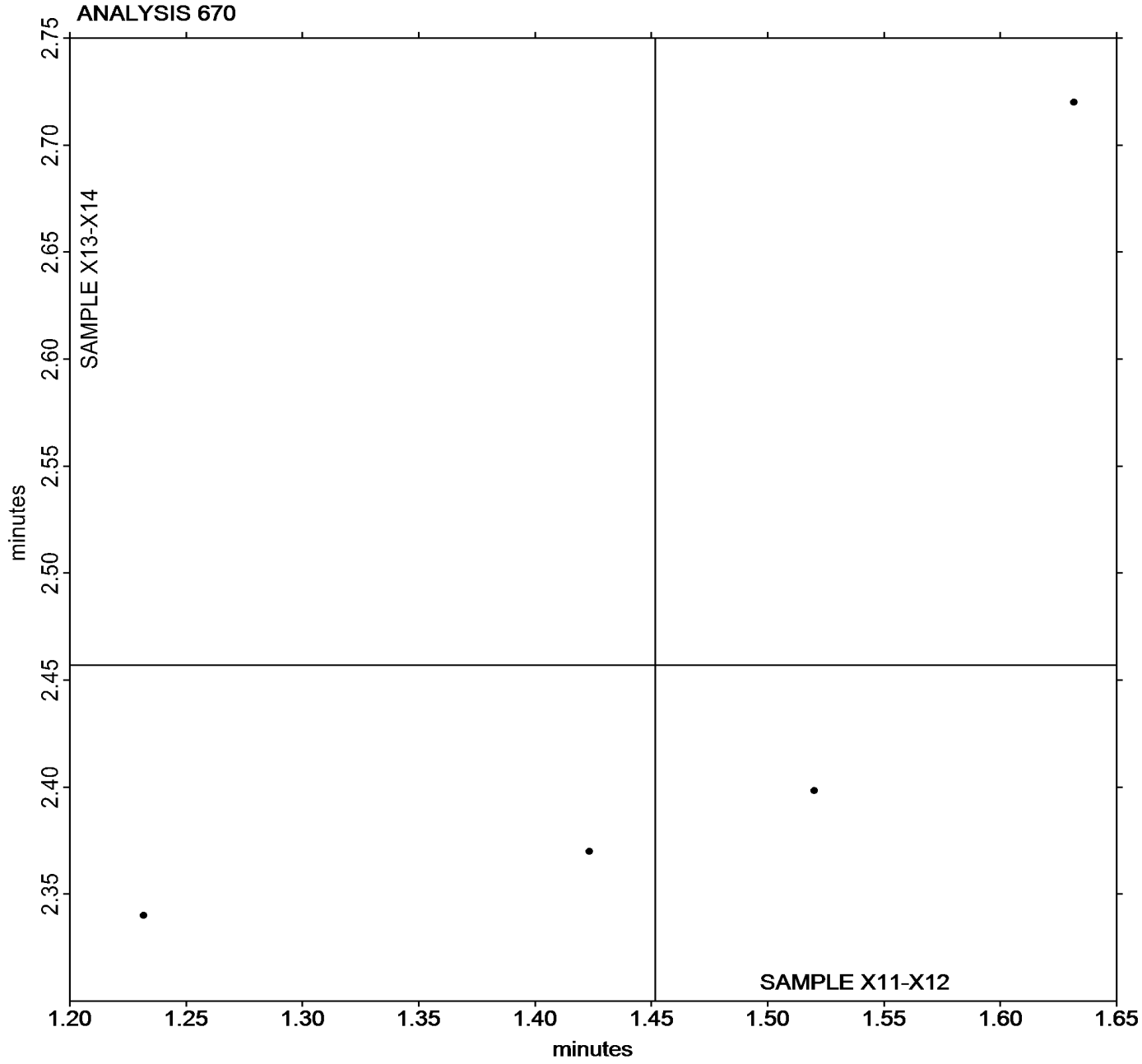
Grand Means	1.4517 minutes	2.4571 minutes
Stnd Dev Btwn Labs	0.1696 minutes	0.1769 minutes

Statistics based on 4 of 4 reporting participants

Samples X11-X12: EPDM compound, batch #1 & X13-X14: EPDM compound, batch #2

Grand Mean Sample **X11-X12** = 1.4517 minutes

Grand Mean Sample **X13-X14** = 2.4571 minutes



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 X11-X12 Lab Mean	Diff from Grand Mean	CPV	Sample X13-X14 Lab Mean	Diff from Grand Mean	CPV
3Q2MXL		3.565	-0.194	-0.91	5.998	-0.683	-0.85
BCBFKJ		4.058	0.299	1.41	6.787	0.105	0.13
CF7MJL		3.747	-0.012	-0.06	7.768	1.087	1.36
R6XC8F		3.667	-0.092	-0.43	6.172	-0.510	-0.64

Summary Statistics

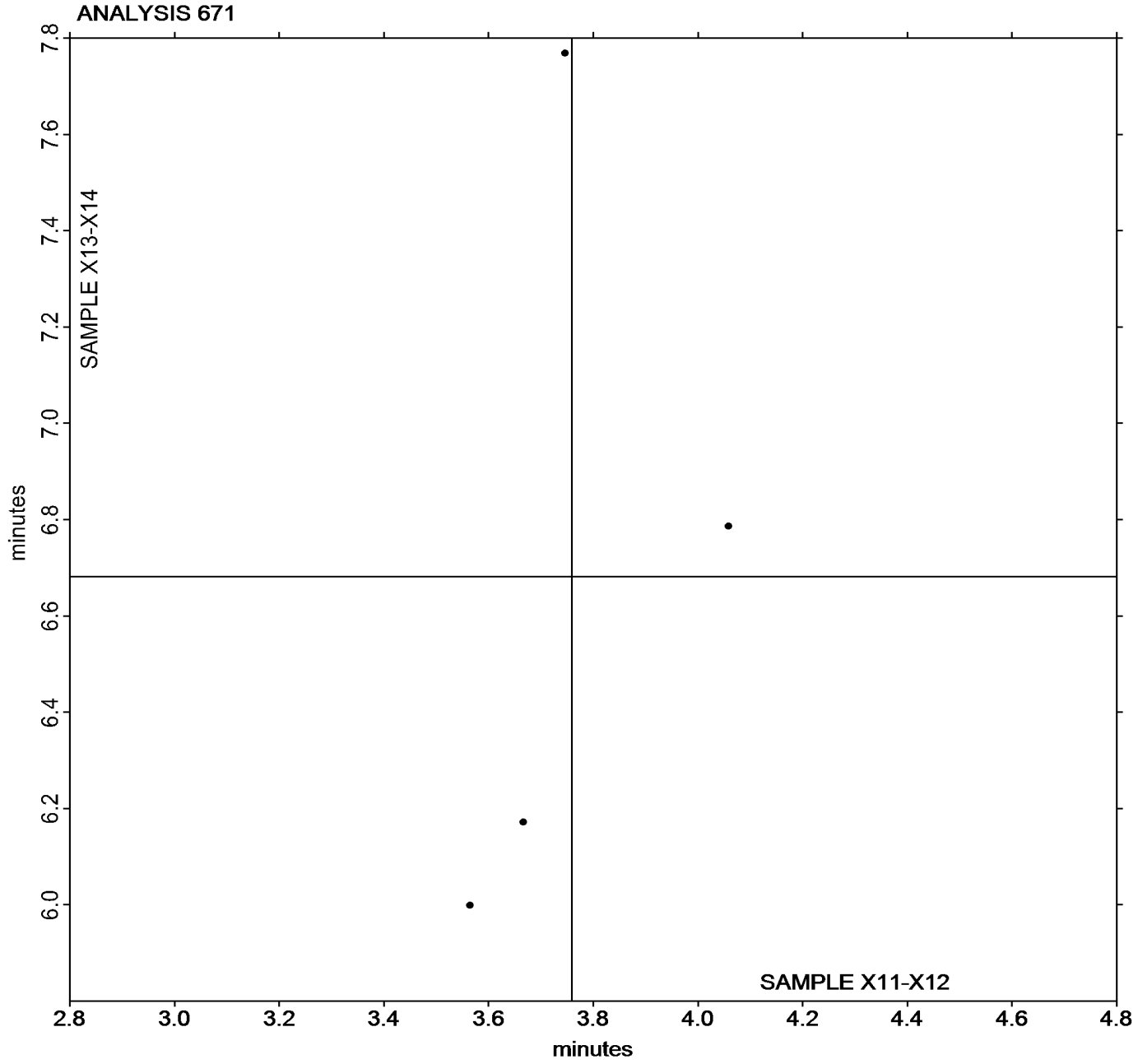
	X11-X12	X13-X14
Grand Means	3.7592 minutes	6.6813 minutes
Stnd Dev Btwn Labs	0.2128 minutes	0.7998 minutes

Statistics based on 4 of 4 reporting participants

Samples X11-X12: EPDM compound, batch #1 & X13-X14: EPDM compound, batch #2

Grand Mean Sample **X11-X12** = 3.7592 minutes

Grand Mean Sample **X13-X14** = 6.6813 minutes



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 X11-X12 Lab Mean	Sample X11-X12 Diff from Grand Mean	Sample X11-X12 CPV	Sample X13-X14 Lab Mean	Sample X13-X14 Diff from Grand Mean	Sample X13-X14 CPV
3Q2MXL		11.51	-3.50	-0.62	10.48	-0.98	-1.34
BCBFKJ		13.97	-1.04	-0.18	11.51	0.05	0.07
CF7MJL		11.30	-3.72	-0.66	12.24	0.79	1.08
R6XC8F		23.27	8.26	1.46	11.60	0.14	0.19

Summary Statistics

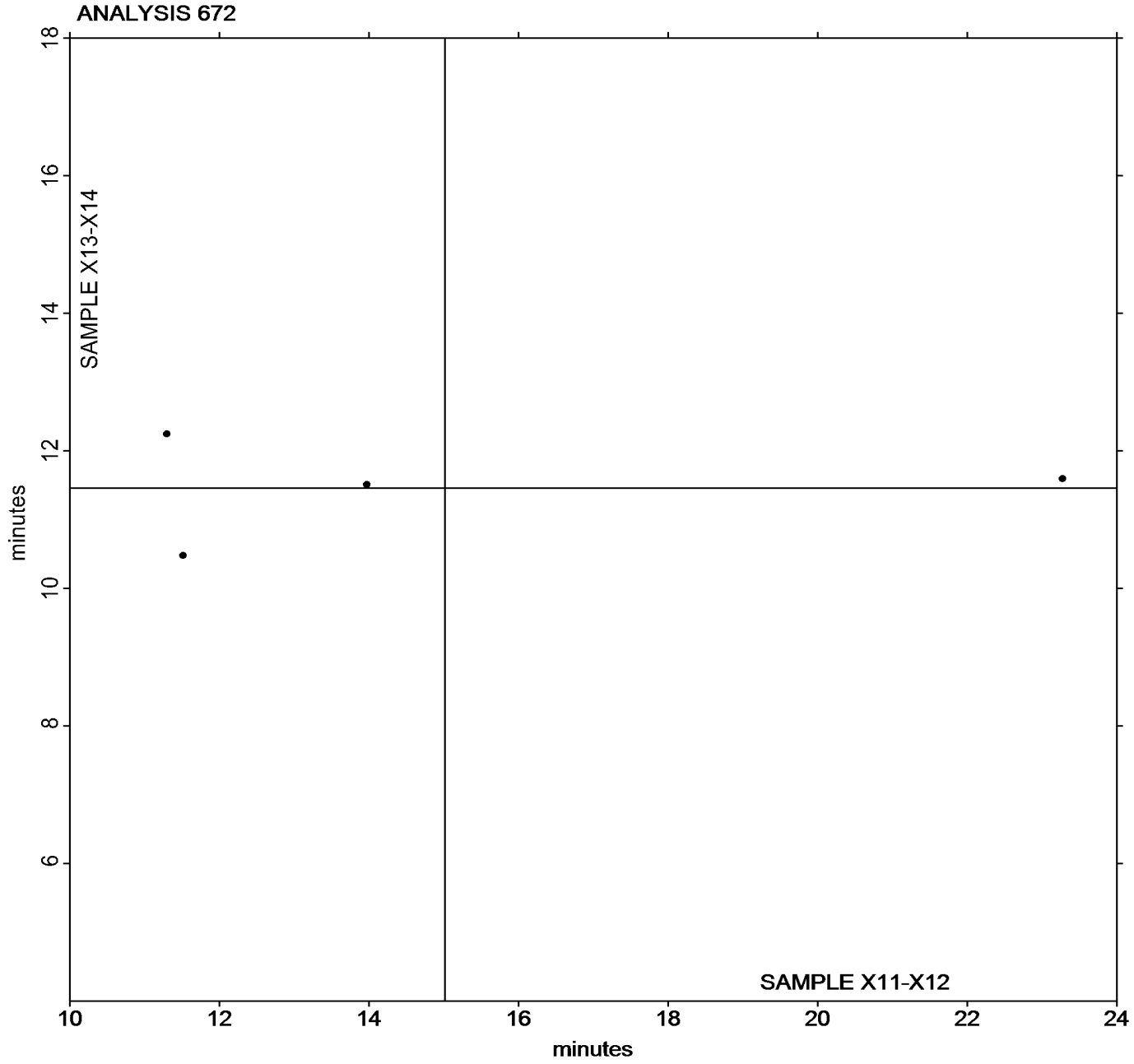
	Sample X11-X12	Sample X13-X14
Grand Means	15.014 minutes	11.456 minutes
Stnd Dev Btwn Labs	5.638 minutes	0.731 minutes

Statistics based on 4 of 4 reporting participants

Samples X11-X12: EPDM compound, batch #1 & X13-X14: EPDM compound, batch #2

Grand Mean Sample **X11-X12** = 15.014 minutes

Grand Mean Sample **X13-X14** = 11.456 minutes



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 X11-X12 Lab Mean	Sample X11-X12 Diff from Grand Mean	Sample X11-X12 CPV	Sample X13-X14 Lab Mean	Sample X13-X14 Diff from Grand Mean	Sample X13-X14 CPV
3Q2MXL		5.582	-1.397	-1.03	7.257	-0.967	-0.75
BCBFKJ		7.797	0.818	0.60	7.025	-1.198	-0.93
CF7MJL		8.437	1.458	1.07	8.968	0.745	0.58
R6XC8F		6.100	-0.879	-0.65	9.643	1.420	1.11

Summary Statistics

	Sample X11-X12	Sample X13-X14
Grand Means	6.9788 lbf.in	8.2233 lbf.in
Stnd Dev Btwn Labs	1.3563 lbf.in	1.2835 lbf.in

Statistics based on 4 of 4 reporting participants

Summary Statistics in SI Units

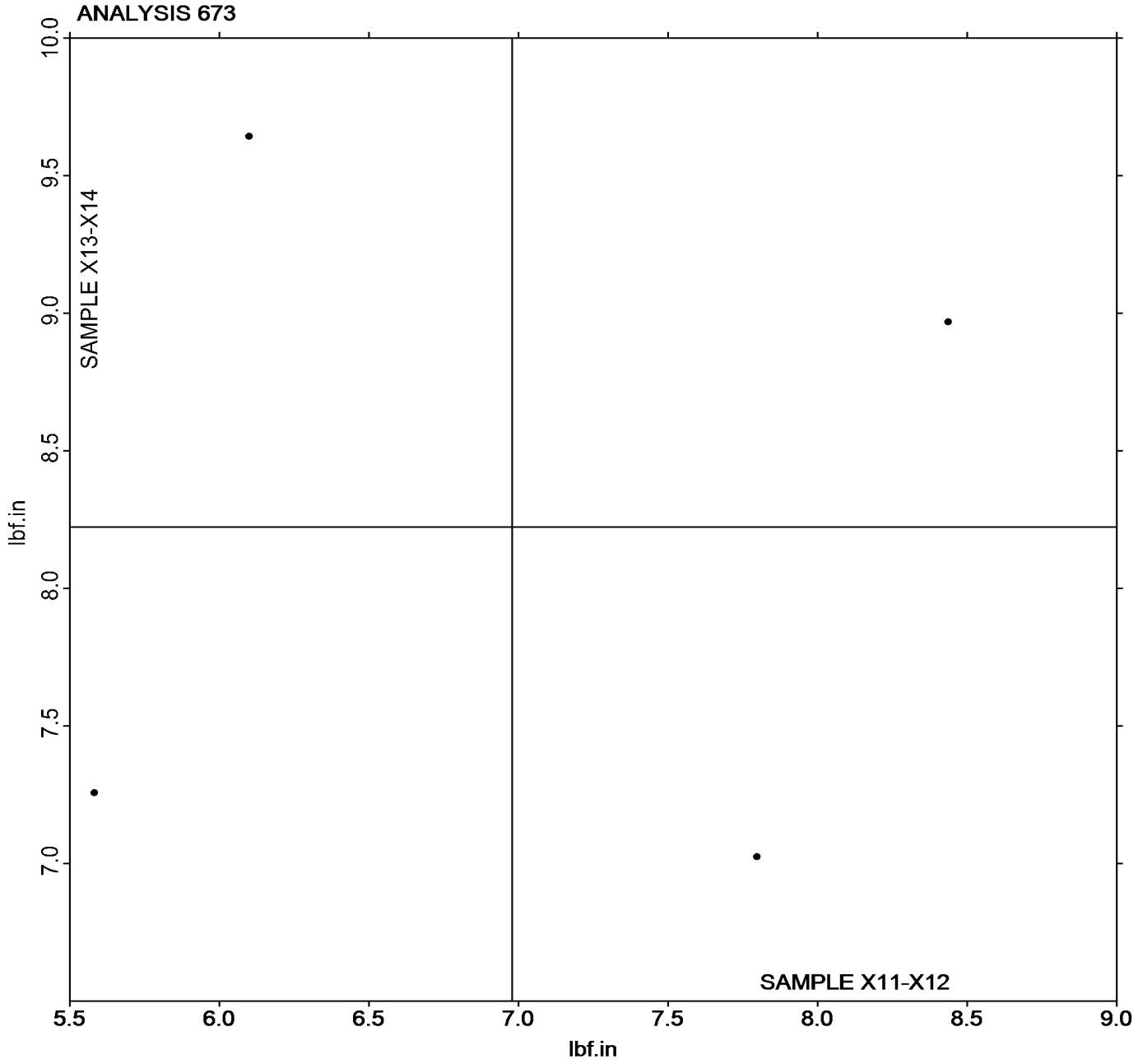
	Sample X11-X12	Sample X13-X14
Grand Means	7.8849 dN.m	9.2911 dN.m
Stnd Dev Btwn Labs	1.5324 dN.m	1.4501 dN.m

Statistics based on 4 of 4 reporting participants

Samples X11-X12: EPDM compound, batch #1 & X13-X14: EPDM compound, batch #2

Grand Mean Sample **X11-X12** = 6.9788 lbf.in

Grand Mean Sample **X13-X14** = 8.2233 lbf.in



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

ODR Vulcanization: Maximum Torque (lbf.in)

WebCode	Data Flag	Sample X11-X12 Lab Mean	Sample X11-X12 Diff from Grand Mean	Sample X11-X12 CPV	Sample X13-X14 Lab Mean	Sample X13-X14 Diff from Grand Mean	Sample X13-X14 CPV
3Q2MXL		45.41	1.53	0.78	35.65	-1.72	-0.89
BCBFKJ		42.67	-1.21	-0.61	35.91	-1.45	-0.75
CF7MJL		41.75	-2.13	-1.08	38.23	0.86	0.45
R6XC8F		45.69	1.81	0.92	39.67	2.31	1.20

Summary Statistics

	Sample X11-X12	Sample X13-X14
Grand Means	43.880 lbf.in	37.365 lbf.in
Stnd Dev Btwn Labs	1.970 lbf.in	1.926 lbf.in

Statistics based on 4 of 4 reporting participants

Summary Statistics in SI Units

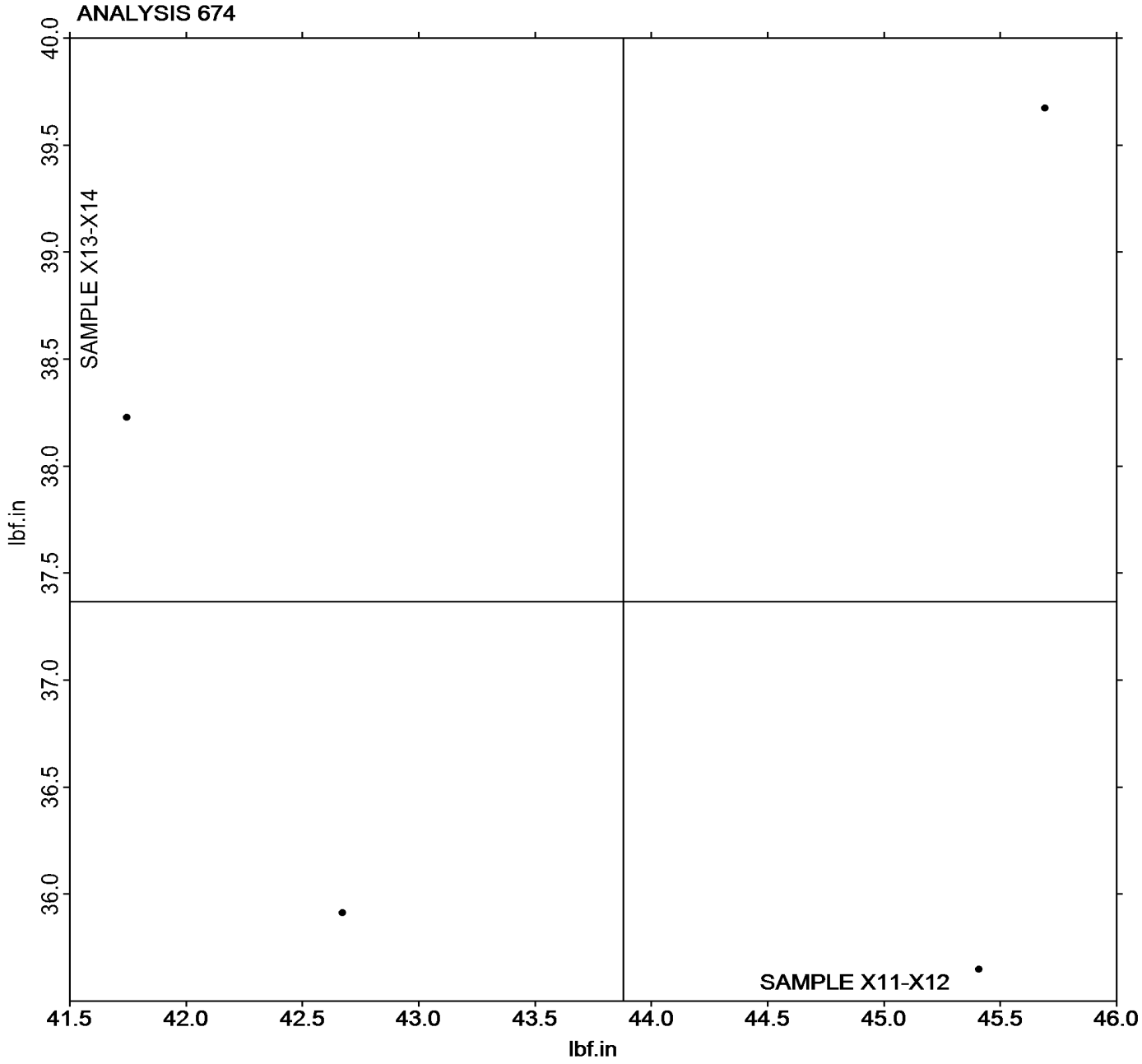
	Sample X11-X12	Sample X13-X14
Grand Means	49.578 dN.m	42.217 dN.m
Stnd Dev Btwn Labs	2.225 dN.m	2.177 dN.m

Statistics based on 4 of 4 reporting participants

Samples X11-X12: EPDM compound, batch #1 & X13-X14: EPDM compound, batch #2

Grand Mean Sample **X11-X12** = 43.880 lbf.in

Grand Mean Sample **X13-X14** = 37.365 lbf.in



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 X15-X16 Lab Mean	Diff from Grand Mean	CPV	Sample X17-X18 Lab Mean	Diff from Grand Mean	CPV	Instr Code
3Q2MXL		2.555	0.029	0.28	2.617	0.081	0.84	MM
8ERQPR		2.553	0.027	0.26	2.572	0.036	0.38	MC
9CDTNE		2.507	-0.020	-0.19	2.530	-0.006	-0.06	MC
9CJZZM	*	2.255	-0.271	-2.62	2.313	-0.222	-2.31	MR
9P4HRR		2.405	-0.121	-1.17	2.428	-0.107	-1.12	MD
AXWVJE		2.390	-0.136	-1.32	2.423	-0.112	-1.17	MD
B3ZEYH		2.533	0.007	0.07	2.587	0.051	0.53	MM
BCBFKJ		2.598	0.072	0.70	2.618	0.083	0.86	MC
DBRDMA		2.575	0.049	0.47	2.555	0.019	0.20	MC
DKFANA		2.575	0.049	0.47	2.570	0.034	0.36	ME
EGVW7J		2.560	0.034	0.33	2.578	0.043	0.44	MC
EVQ2RA		2.482	-0.045	-0.43	2.458	-0.077	-0.80	MX
FB26QA		2.545	0.019	0.18	2.523	-0.012	-0.13	MR
FRA9XM		2.560	0.034	0.33	2.593	0.058	0.60	MP
JBRQA4		2.525	-0.001	-0.01	2.543	0.008	0.08	MC
JEBJPC		2.518	-0.008	-0.08	2.550	0.014	0.15	ME
KCZVPD		2.475	-0.051	-0.50	2.488	-0.047	-0.49	MC
KVT4J2	*	2.743	0.217	2.10	2.692	0.156	1.62	MM
LP2A4F		2.667	0.140	1.36	2.682	0.146	1.51	MC
MCQYBJ		2.762	0.235	2.28	2.740	0.204	2.12	XX
MTF89G		2.505	-0.021	-0.21	2.500	-0.036	-0.37	MC
P4A3JH		2.425	-0.101	-0.98	2.465	-0.071	-0.74	MC
PGWET7		2.582	0.055	0.54	2.610	0.074	0.77	MC
PNU9MX		2.507	-0.020	-0.19	2.513	-0.022	-0.23	XX
PYEBBK		2.553	0.027	0.26	2.557	0.021	0.22	MC
R6XC8F		2.508	-0.018	-0.17	2.495	-0.041	-0.42	MC
RWZK28		2.615	0.088	0.85	2.605	0.069	0.72	MM
T4HFEF		2.550	0.024	0.23	2.542	0.006	0.06	MC
T7M4U7		2.292	-0.235	-2.27	2.303	-0.232	-2.41	MC
UJQNVA		2.528	0.002	0.02	2.525	-0.011	-0.11	MC
WH8L28		2.582	0.055	0.54	2.578	0.043	0.44	MD
XCYHQY		2.598	0.072	0.70	2.620	0.084	0.87	MC
XDT9WD	*	2.425	-0.101	-0.98	2.378	-0.157	-1.64	MC
YZJU9K		2.442	-0.085	-0.82	2.463	-0.072	-0.75	ME

Summary Statistics		
Grand Means		
	2.5263 minutes	2.5358 minutes
Stnd Dev Btwn Labs		
	0.1034 minutes	0.0963 minutes
		Statistics based on 34 of 34 reporting participants

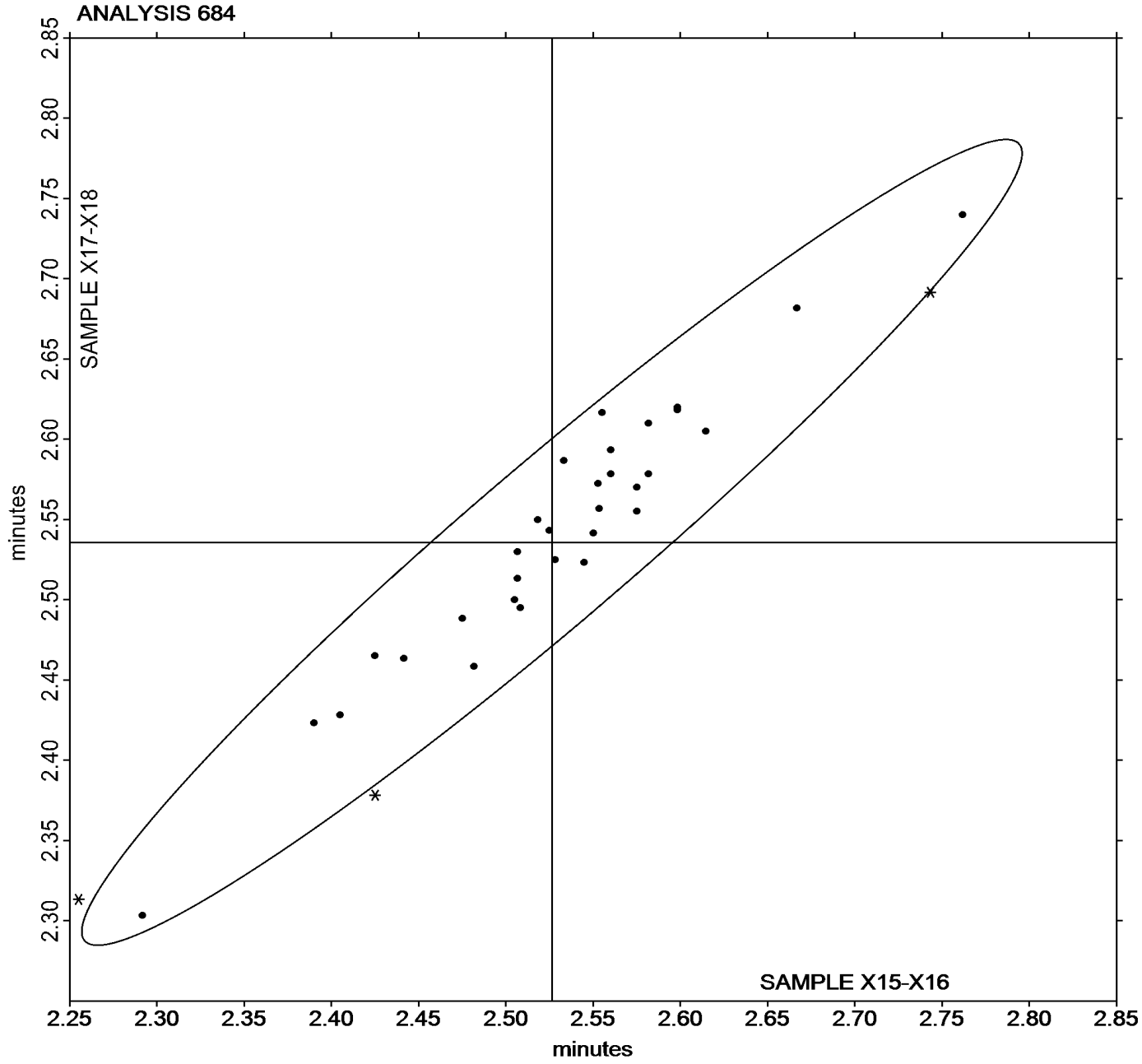
Samples X15-X16: EPDM compound, batch #1 & X17-X18: EPDM compound, batch #2

Key to Instrument Codes Reported by Participants

MC	Alpha Technologies [Monsanto] MDR 2000 or 2000E	MD	Alpha Tech. Rubber Process Analyzer (RPA 2000)
ME	Alpha Tech. MDR Premiere	MM	MonTech MDR 3000
MP	Alpha Technologies [Monsanto] MDR 2000P	MR	MonTech D-RPA 3000
MX	Rebuilt MonTech Alpha	XX	Instrument model not specified by lab

Grand Mean Sample **X15-X16** = 2.5263 minutes

Grand Mean Sample **X17-X18** = 2.5358 minutes



MDR Vulcanization-Scorch Time, Ts1 (minutes)

WebCode	Data Flag	Sample X15-X16 Lab Mean	Diff from Grand Mean	CPV	Sample X17-X18 Lab Mean	Diff from Grand Mean	CPV	Instr Code
2NEJUU	*	1.897	-0.381	-2.47	1.882	-0.391	-2.58	MR
3Q2MXL		2.432	0.154	1.00	2.438	0.166	1.09	MM
6F9BGP	*	2.440	0.163	1.06	2.350	0.077	0.51	XX
8ERQPR		2.286	0.009	0.06	2.281	0.008	0.05	MC
9CDTNE		2.372	0.094	0.61	2.412	0.139	0.92	MC
9CJZZM		2.070	-0.207	-1.35	2.117	-0.156	-1.03	MR
9P4HRR		2.178	-0.099	-0.64	2.152	-0.121	-0.80	MD
AXWVJE		2.245	-0.032	-0.21	2.307	0.034	0.22	MD
B3ZEYH		2.527	0.249	1.62	2.522	0.249	1.64	MM
BCBFKJ		2.315	0.038	0.24	2.317	0.044	0.29	MC
DBRDMA		2.493	0.216	1.40	2.467	0.194	1.28	MC
DKFANA		2.403	0.126	0.82	2.370	0.097	0.64	ME
EGVW7J		2.280	0.003	0.02	2.280	0.007	0.05	MC
EVQ2RA		2.015	-0.262	-1.70	1.987	-0.286	-1.89	MX
FB26QA		2.283	0.006	0.04	2.243	-0.029	-0.19	MR
FRA9XM		2.143	-0.134	-0.87	2.127	-0.146	-0.96	MP
JBRQA4		2.310	0.033	0.21	2.300	0.027	0.18	MC
JEBJPC		2.348	0.071	0.46	2.338	0.066	0.43	ME
JETM2J		2.377	0.099	0.65	2.402	0.129	0.85	MC
KCZVPD		2.258	-0.019	-0.12	2.265	-0.008	-0.05	MC
KVT4J2		2.293	0.016	0.10	2.258	-0.014	-0.09	MM
LP2A4F		2.447	0.169	1.10	2.420	0.147	0.97	MC
MCQYBJ		2.403	0.126	0.82	2.355	0.082	0.54	XX
MTF89G		2.388	0.111	0.72	2.387	0.114	0.75	MC
P4A3JH		2.130	-0.147	-0.96	2.140	-0.133	-0.87	MC
PGWET7		2.447	0.169	1.10	2.430	0.157	1.04	MC
PNU9MX		2.412	0.134	0.87	2.430	0.157	1.04	XX
PYEBBK		2.233	-0.044	-0.29	2.245	-0.028	-0.18	MC
R6XC8F		2.405	0.128	0.83	2.425	0.152	1.01	MC
RWZK28		2.294	0.016	0.11	2.325	0.053	0.35	MM
T4HFEF		2.320	0.043	0.28	2.318	0.046	0.30	MC
T7M4U7		1.892	-0.386	-2.50	1.893	-0.379	-2.50	MC
UA2ZZ8		2.123	-0.155	-1.01	2.140	-0.133	-0.87	MC
UJQNVA		2.337	0.059	0.39	2.325	0.052	0.35	MC
UZD8NB		2.323	0.046	0.30	2.302	0.029	0.19	MC
WH8L28		2.355	0.078	0.50	2.352	0.079	0.52	MD
XCYHQY		2.122	-0.156	-1.01	2.105	-0.168	-1.11	MC
XDT9WD		2.073	-0.204	-1.33	2.080	-0.193	-1.27	MC

MDR Vulcanization-Scorch Time, Ts1 (minutes)

WebCode	Data Flag	Sample X15-X16 Lab Mean	Sample X15-X16 Diff from Grand Mean	Sample X15-X16 CPV	Sample X17-X18 Lab Mean	Sample X17-X18 Diff from Grand Mean	Sample X17-X18 CPV	Instr Code
YZJU9K		2.145	-0.132	-0.86	2.147	-0.126	-0.83	ME

Summary Statistics

	Sample X15-X16	Sample X17-X18
Grand Means	2.2773 minutes	2.2726 minutes
Stnd Dev Btwn Labs	0.1540 minutes	0.1516 minutes

Statistics based on 39 of 39 reporting participants

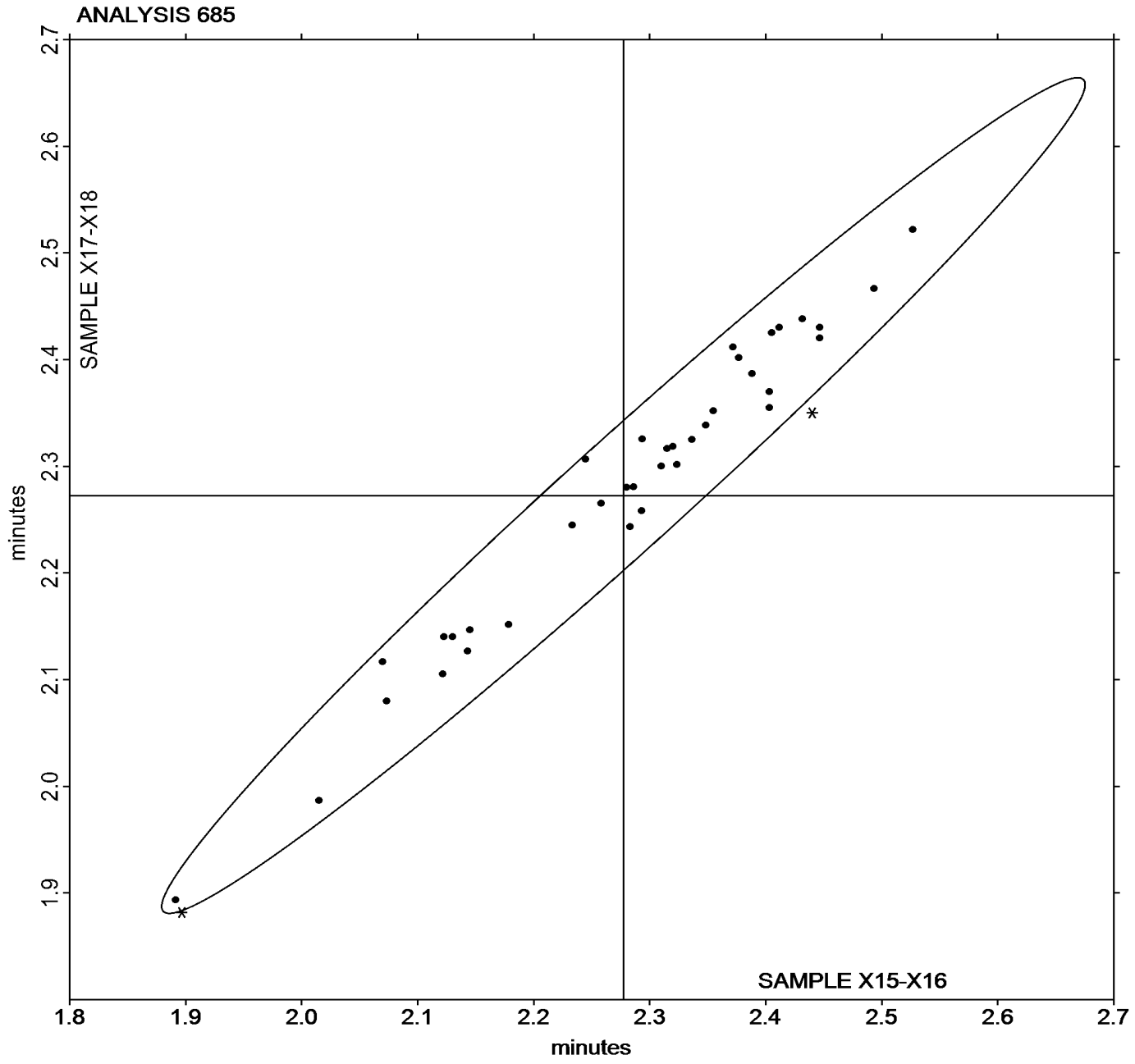
Samples X15-X16: EPDM compound, batch #1 & X17-X18: EPDM compound, batch #2

Key to Instrument Codes Reported by Participants

MC	Alpha Technologies [Monsanto] MDR 2000 or 2000E	MD	Alpha Tech. Rubber Process Analyzer (RPA 2000)
ME	Alpha Tech. MDR Premiere	MM	MonTech MDR 3000
MP	Alpha Technologies [Monsanto] MDR 2000P	MR	MonTech D-RPA 3000
MX	Rebuilt MonTech Alpha	XX	Instrument model not specified by lab

Grand Mean Sample **X15-X16** = 2.2773 minutes

Grand Mean Sample **X17-X18** = 2.2726 minutes



MDR Vulcanization-Cure Time 50% (minutes)

WebCode	Data Flag	Sample X15-X16 Lab Mean	Sample X15-X16 Diff from Grand Mean	Sample X15-X16 CPV	Sample X17-X18 Lab Mean	Sample X17-X18 Diff from Grand Mean	Sample X17-X18 CPV	Instr Code
2NEJUU		5.667	-0.071	-0.27	5.748	-0.009	-0.04	MR
3Q2MXL		5.688	-0.050	-0.19	5.810	0.052	0.20	MM
6F9BGP		5.663	-0.075	-0.29	5.477	-0.281	-1.07	XX
8ERQPR		5.986	0.248	0.95	6.017	0.259	0.99	MC
9CDTNE		5.437	-0.301	-1.15	5.623	-0.134	-0.51	MC
9CJZZM		5.692	-0.046	-0.18	5.830	0.072	0.28	MR
9P4HRR		5.638	-0.100	-0.38	5.693	-0.064	-0.25	MD
AXWVJE	*	4.987	-0.751	-2.87	5.012	-0.746	-2.85	MD
B3ZEYH		5.730	-0.008	-0.03	5.748	-0.009	-0.04	MM
BCBFKJ		5.985	0.247	0.94	6.063	0.306	1.17	MC
DBRDMA		5.618	-0.120	-0.46	5.602	-0.156	-0.60	MC
DKFANA		5.827	0.089	0.34	5.775	0.017	0.07	ME
EGVW7J		5.885	0.147	0.56	5.958	0.201	0.77	MC
EVQ2RA		5.837	0.099	0.38	5.713	-0.044	-0.17	MX
FB26QA		5.740	0.002	0.01	5.792	0.034	0.13	MR
FRA9XM		5.657	-0.081	-0.31	5.548	-0.209	-0.80	MC
JBRQA4		5.780	0.042	0.16	5.752	-0.006	-0.02	MC
JEBJPC		5.803	0.065	0.25	5.842	0.084	0.32	ME
JETM2J		5.422	-0.316	-1.21	5.522	-0.236	-0.90	MC
KCZVPD		5.648	-0.090	-0.34	5.687	-0.071	-0.27	MC
KVT4J2		6.188	0.450	1.72	6.112	0.354	1.35	MM
LP2A4F		5.975	0.237	0.90	5.970	0.212	0.81	MC
MCQYBJ		6.415	0.677	2.58	6.390	0.632	2.42	XX
MTF89G		5.587	-0.151	-0.58	5.608	-0.149	-0.57	MC
P4A3JH		5.665	-0.073	-0.28	5.760	0.002	0.01	MC
PGWET7		6.003	0.265	1.01	6.013	0.256	0.98	MC
PNU9MX		5.383	-0.355	-1.35	5.435	-0.323	-1.23	XX
PYEBBK		6.050	0.312	1.19	5.990	0.232	0.89	MC
R6XC8F		5.422	-0.316	-1.21	5.462	-0.296	-1.13	MC
RWZK28		6.092	0.353	1.35	6.255	0.497	1.90	MM
T4HFEF		5.692	-0.046	-0.18	5.718	-0.039	-0.15	MC
T7M4U7		5.628	-0.110	-0.42	5.662	-0.096	-0.37	MC
UA2ZZ8		5.951	0.213	0.81	6.039	0.281	1.07	MC
UJQNVA		5.750	0.012	0.05	5.747	-0.011	-0.04	MC
UZD8NB		5.832	0.094	0.36	5.667	-0.091	-0.35	MC
WH8L28		5.812	0.074	0.28	5.888	0.131	0.50	MD
XCYHQY		5.892	0.154	0.59	5.812	0.054	0.21	MC

MDR Vulcanization-Cure Time 50% (minutes)

WebCode	Data Flag	Sample X15-X16 Lab Mean	Sample X15-X16 Diff from Grand Mean	Sample X15-X16 CPV	Sample X17-X18 Lab Mean	Sample X17-X18 Diff from Grand Mean	Sample X17-X18 CPV	Instr Code
XDT9WD		5.295	-0.443	-1.69	5.207	-0.551	-2.11	MC
YZJU9K		5.467	-0.271	-1.04	5.605	-0.153	-0.58	ME

Summary Statistics

	Sample X15-X16	Sample X17-X18
Grand Means	5.7381 minutes	5.7577 minutes
Stnd Dev Btwn Labs	0.2620 minutes	0.2617 minutes

Statistics based on 39 of 39 reporting participants

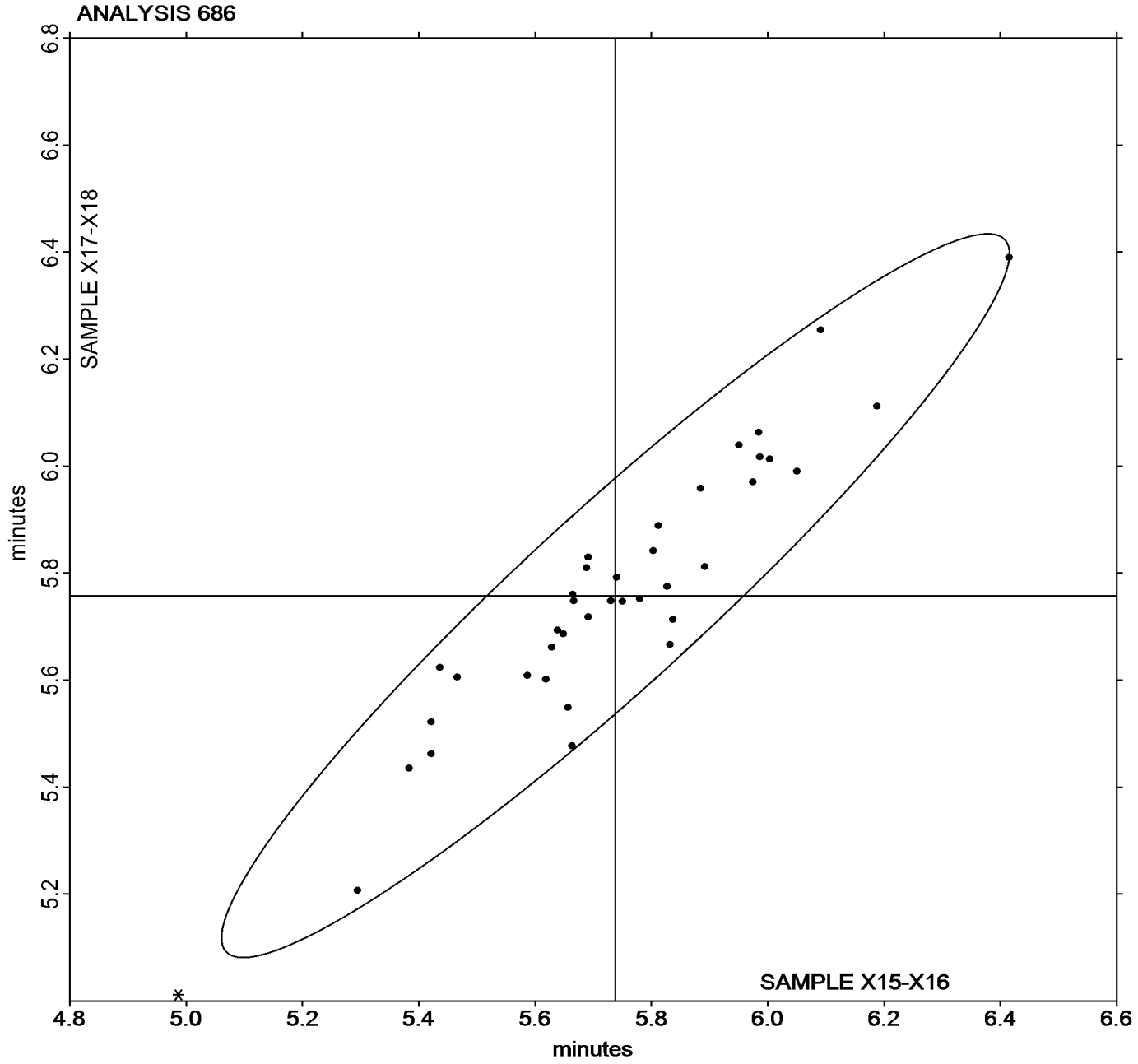
Samples X15-X16: EPDM compound, batch #1 & X17-X18: EPDM compound, batch #2

Key to Instrument Codes Reported by Participants

- MC Alpha Technologies [Monsanto] MDR 2000 or 2000E
- MD Alpha Tech. Rubber Process Analyzer (RPA 2000)
- ME Alpha Tech. MDR Premiere
- MM MonTech MDR 3000
- MR MonTech D-RPA 3000
- MX Rebuilt MonTech Alpha
- XX Instrument model not specified by lab

Grand Mean Sample **X15-X16** = 5.7381 minutes

Grand Mean Sample **X17-X18** = 5.7577 minutes



MDR Vulcanization-Cure Time 90% (minutes)

WebCode	Data Flag	Sample X15-X16 Lab Mean	Sample X15-X16 Diff from Grand Mean	Sample X15-X16 CPV	Sample X17-X18 Lab Mean	Sample X17-X18 Diff from Grand Mean	Sample X17-X18 CPV	Instr Code
2NEJUU		9.148	-0.145	-0.37	9.203	-0.157	-0.42	MR
3Q2MXL		8.573	-0.720	-1.82	8.907	-0.454	-1.23	MM
6F9BGP		9.217	-0.077	-0.19	9.032	-0.329	-0.89	XX
8ERQPR		9.634	0.340	0.86	9.686	0.326	0.88	MC
9CDTNE		8.812	-0.482	-1.22	9.083	-0.277	-0.75	MC
9CJZZM		8.767	-0.527	-1.33	9.105	-0.255	-0.69	MR
9P4HRR		9.108	-0.185	-0.47	9.287	-0.074	-0.20	MD
AXWVJE	*	8.835	-0.458	-1.16	8.520	-0.840	-2.27	MD
B3ZEYH		9.308	0.015	0.04	9.660	0.300	0.81	MM
BCBFKJ		9.602	0.308	0.78	9.687	0.326	0.88	MC
DBRDMA		9.648	0.355	0.90	9.658	0.298	0.81	MC
DKFANA		9.548	0.255	0.64	9.517	0.156	0.42	ME
EGVW7J		9.120	-0.173	-0.44	9.430	0.070	0.19	MC
EVQ2RA		9.835	0.542	1.37	9.660	0.300	0.81	MX
FB26QA		9.388	0.095	0.24	9.607	0.246	0.67	MR
FRA9XM		9.317	0.023	0.06	9.423	0.063	0.17	MP
JBRQA4		9.503	0.210	0.53	9.543	0.183	0.49	MC
JEBJPC		9.170	-0.123	-0.31	9.243	-0.117	-0.32	ME
JETM2J		9.078	-0.215	-0.54	9.328	-0.032	-0.09	MC
KCZVPD		9.198	-0.095	-0.24	9.355	-0.005	-0.01	MC
KVT4J2		10.137	0.843	2.13	10.140	0.780	2.11	MM
LP2A4F		9.697	0.403	1.02	9.657	0.296	0.80	MC
MCQYBJ		10.165	0.872	2.20	10.075	0.715	1.93	XX
MTF89G		9.338	0.045	0.11	9.487	0.126	0.34	MC
P4A3JH		9.000	-0.293	-0.74	9.135	-0.225	-0.61	MC
PGWET7		9.402	0.108	0.27	9.492	0.131	0.35	MC
PNU9MX		9.020	-0.273	-0.69	9.008	-0.352	-0.95	XX
PYEBBK		9.430	0.137	0.35	9.340	-0.020	-0.06	MC
R6XC8F		8.918	-0.375	-0.95	8.975	-0.385	-1.04	MC
RWZK28		9.822	0.529	1.34	9.890	0.530	1.43	MM
T4HFEF		9.108	-0.185	-0.47	9.137	-0.224	-0.60	MC
T7M4U7		9.080	-0.213	-0.54	9.135	-0.225	-0.61	MC
UA2ZZ8		9.699	0.405	1.02	9.846	0.485	1.31	MC
UJQNVA		9.222	-0.072	-0.18	9.208	-0.152	-0.41	MC
UZD8NB		9.438	0.145	0.37	9.185	-0.175	-0.47	MC
WH8L28		9.425	0.132	0.33	9.508	0.148	0.40	MD
XCYHQY		9.523	0.230	0.58	9.632	0.271	0.73	MC

WebCode	Data Flag	Sample X15-X16 Lab Mean	Sample X15-X16 Diff from Grand Mean	Sample X15-X16 CPV	Sample X17-X18 Lab Mean	Sample X17-X18 Diff from Grand Mean	Sample X17-X18 CPV	Instr Code
XDT9WD		8.966	-0.327	-0.83	8.704	-0.656	-1.77	MC
YZJU9K	*	8.242	-1.052	-2.66	8.567	-0.794	-2.14	ME

Summary Statistics

	Sample X15-X16	Sample X17-X18
Grand Means	9.2934 minutes	9.3604 minutes
Stnd Dev Btwn Labs	0.3957 minutes	0.3701 minutes

Statistics based on 39 of 39 reporting participants

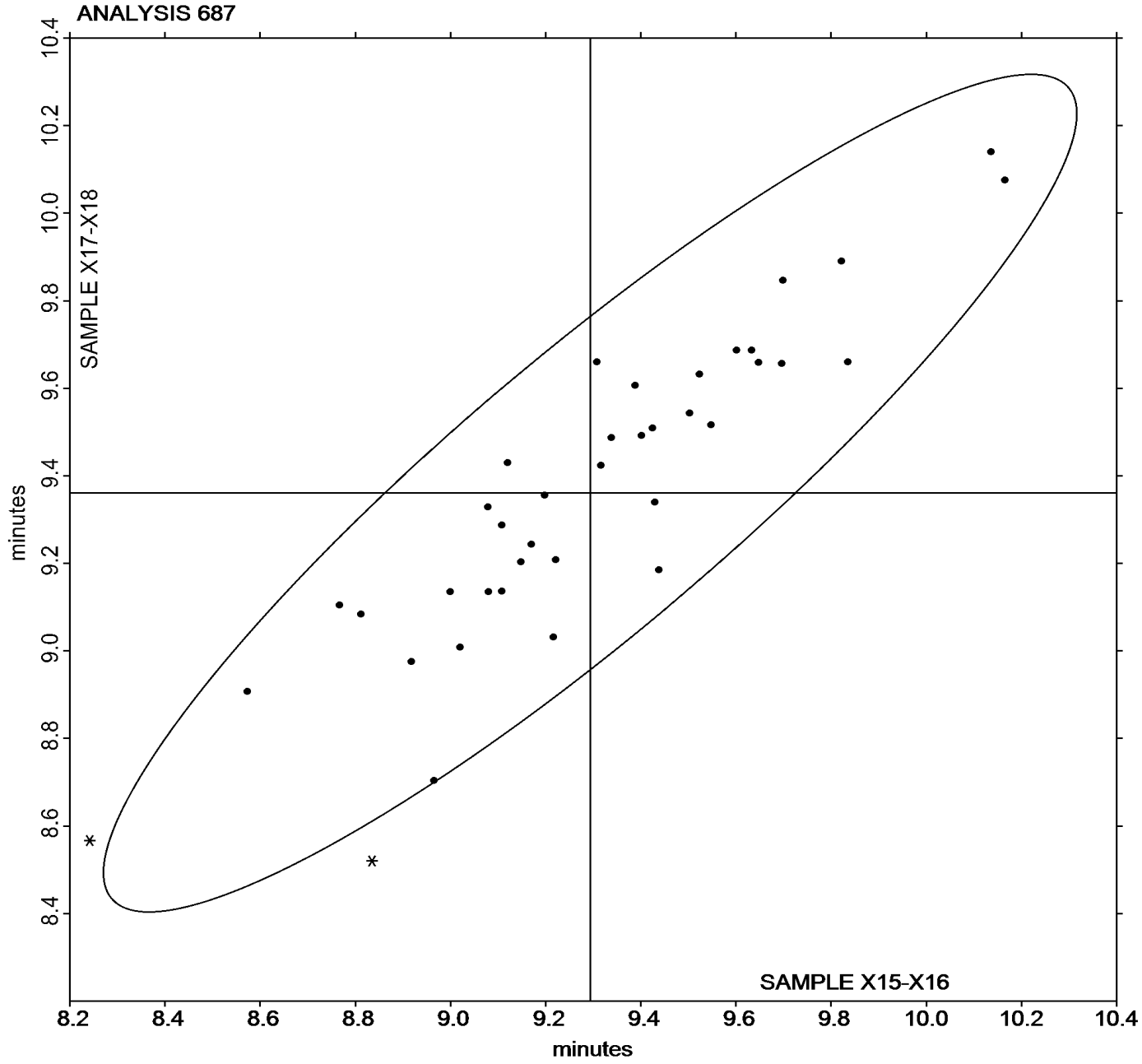
Samples X15-X16: EPDM compound, batch #1 & X17-X18: EPDM compound, batch #2

Key to Instrument Codes Reported by Participants

MC	Alpha Technologies [Monsanto] MDR 2000 or 2000E	MD	Alpha Tech. Rubber Process Analyzer (RPA 2000)
ME	Alpha Tech. MDR Premiere	MM	MonTech MDR 3000
MP	Alpha Technologies [Monsanto] MDR 2000P	MR	MonTech D-RPA 3000
MX	Rebuilt MonTech Alpha	XX	Instrument model not specified by lab

Grand Mean Sample **X15-X16** = 9.2934 minutes

Grand Mean Sample **X17-X18** = 9.3604 minutes



WebCode	Data Flag	Sample X15-X16 Lab Mean	Sample X15-X16 Diff from Grand Mean	Sample X15-X16 CPV	Sample X17-X18 Lab Mean	Sample X17-X18 Diff from Grand Mean	Sample X17-X18 CPV	Instr Code
2NEJUU		1.750	-0.170	-0.32	1.732	-0.144	-0.26	MR
3Q2MXL		1.760	-0.160	-0.30	1.700	-0.175	-0.32	MM
6F9BGP	*	3.387	1.466	2.75	3.363	1.488	2.69	XX
8ERQPR		1.612	-0.309	-0.58	1.575	-0.300	-0.54	MC
9CDTNE		2.097	0.176	0.33	2.058	0.183	0.33	MC
9CJZZM		1.600	-0.320	-0.60	1.568	-0.307	-0.55	MR
9P4HRR		1.514	-0.406	-0.76	1.469	-0.406	-0.73	MD
AXWVJE	*	3.635	1.714	3.21	3.667	1.792	3.24	MD
B3ZEYH		2.220	0.300	0.56	2.262	0.386	0.70	MM
BCBFKJ		1.608	-0.312	-0.59	1.517	-0.359	-0.65	MC
DBRDMA		2.187	0.266	0.50	2.147	0.271	0.49	MC
DKFANA		1.948	0.028	0.05	1.948	0.073	0.13	ME
EGVW7J		1.560	-0.360	-0.68	1.502	-0.374	-0.68	MC
EVQ2RA		1.545	-0.375	-0.70	1.480	-0.395	-0.71	MX
FB26QA		1.427	-0.494	-0.93	1.315	-0.560	-1.01	MR
FRA9XM		1.568	-0.352	-0.66	1.508	-0.368	-0.66	MP
JBRQA4		1.920	0.000	0.00	1.897	0.021	0.04	MC
JEBJPC		1.517	-0.404	-0.76	1.452	-0.424	-0.77	ME
JETM2J		2.032	0.111	0.21	1.953	0.078	0.14	MC
KCZVPD		1.828	-0.092	-0.17	1.820	-0.055	-0.10	MC
KVT4J2		1.770	-0.150	-0.28	1.720	-0.155	-0.28	MM
LP2A4F		1.433	-0.487	-0.91	1.398	-0.477	-0.86	MC
MCQYBJ		2.567	0.646	1.21	2.475	0.600	1.08	XX
MTF89G		2.365	0.445	0.83	2.325	0.450	0.81	MC
P4A3JH		1.460	-0.460	-0.86	1.419	-0.456	-0.82	MC
PGWET7		1.520	-0.400	-0.75	1.442	-0.434	-0.78	MC
PNU9MX		2.973	1.053	1.97	2.968	1.093	1.98	XX
PYEBBK		1.713	-0.207	-0.39	1.642	-0.234	-0.42	MC
R6XC8F	*	2.442	0.521	0.98	2.510	0.635	1.15	MC
RWZK28		1.525	-0.395	-0.74	1.432	-0.443	-0.80	MM
T4HFEF		2.151	0.230	0.43	2.101	0.225	0.41	MC
T7M4U7		1.690	-0.230	-0.43	1.618	-0.257	-0.46	MC
UA2ZZ8		1.629	-0.292	-0.55	1.570	-0.306	-0.55	MC
UJQNVA		1.748	-0.172	-0.32	1.673	-0.202	-0.36	MC
UZD8NB	X	1.825	-0.095	-0.18	2.040	0.165	0.30	MC
WH8L28		1.685	-0.235	-0.44	1.625	-0.250	-0.45	MD
XCYHQY		1.446	-0.475	-0.89	1.384	-0.492	-0.89	MC
XDT9WD		2.586	0.666	1.25	2.527	0.652	1.18	MC

WebCode	Data Flag	Sample X15-X16 Lab Mean	Sample X15-X16 Diff from Grand Mean	Sample X15-X16 CPV	Sample X17-X18 Lab Mean	Sample X17-X18 Diff from Grand Mean	Sample X17-X18 CPV	Instr Code
YZJU9K		1.558	-0.363	-0.68	1.500	-0.375	-0.68	ME

Summary Statistics

	X15-X16	X17-X18
Grand Means	1.9204 lbf.in	1.8753 lbf.in
Stnd Dev Btwn Labs	0.5333 lbf.in	0.5533 lbf.in

Statistics based on 38 of 39 reporting participants

Summary Statistics in SI Units

	X15-X16	X17-X18
Grand Means	2.1697 dN.m	2.1188 dN.m
Stnd Dev Btwn Labs	0.6025 dN.m	0.6252 dN.m

Statistics based on 38 of 39 reporting participants

Samples X15-X16: EPDM compound, batch #1 & X17-X18: EPDM compound, batch #2

Comments on Assigned Data Flags for Test #688

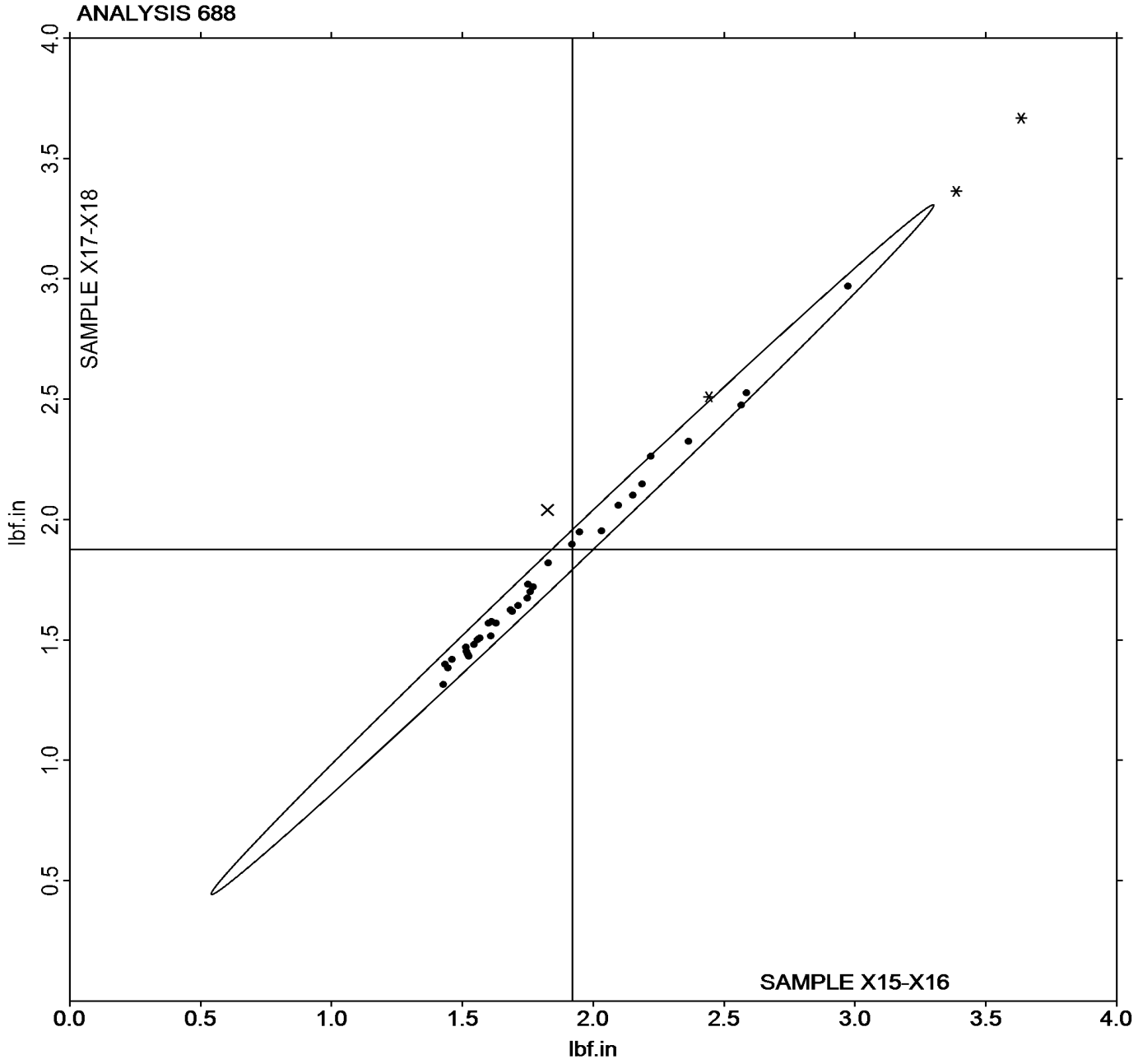
UZD8NB (X) - Inconsistent in testing between samples.

Key to Instrument Codes Reported by Participants

MC	Alpha Technologies [Monsanto] MDR 2000 or 2000E	MD	Alpha Tech. Rubber Process Analyzer (RPA 2000)
ME	Alpha Tech. MDR Premiere	MM	MonTech MDR 3000
MP	Alpha Technologies [Monsanto] MDR 2000P	MR	MonTech D-RPA 3000
MX	Rebuilt MonTech Alpha	XX	Instrument model not specified by lab

Grand Mean Sample **X15-X16** = 1.9204 lbf.in

Grand Mean Sample **X17-X18** = 1.8753 lbf.in



WebCode	Data Flag	Sample X15-X16 Lab Mean	Diff from Grand Mean	CPV	Sample X17-X18 Lab Mean	Diff from Grand Mean	CPV	Instr Code
2NEJUU		13.54	0.01	0.01	13.62	0.06	0.08	MR
3Q2MXL		12.76	-0.77	-0.93	13.10	-0.47	-0.58	MM
6F9BGP	*	15.87	2.34	2.84	16.01	2.45	3.03	XX
8ERQPR		13.52	0.00	-0.01	13.69	0.13	0.16	MC
9CDTNE		13.01	-0.52	-0.63	12.90	-0.66	-0.82	MC
9CJZZM		13.04	-0.49	-0.59	13.08	-0.48	-0.59	MR
9P4HRR		13.16	-0.37	-0.45	13.56	0.00	0.00	MD
AXWVJE		14.01	0.48	0.59	13.76	0.20	0.24	MD
B3ZEYH		12.23	-1.29	-1.57	12.73	-0.83	-1.03	MM
BCBFKJ		13.84	0.31	0.38	13.72	0.16	0.20	MC
DBRDMA		12.91	-0.62	-0.76	12.83	-0.73	-0.90	MC
DKFANA		13.29	-0.24	-0.29	13.48	-0.08	-0.10	ME
EGVW7J		13.80	0.27	0.33	13.81	0.25	0.31	MC
EVQ2RA		13.89	0.37	0.44	13.72	0.16	0.20	MX
FB26QA		13.43	-0.10	-0.12	13.32	-0.24	-0.29	MR
FRA9XM		13.41	-0.11	-0.14	13.62	0.06	0.08	MC
JBRQA4		13.64	0.11	0.13	13.80	0.24	0.29	MC
JEBJPC		12.75	-0.77	-0.94	13.02	-0.54	-0.67	ME
JETM2J		11.68	-1.85	-2.25	11.68	-1.88	-2.33	MC
KCZVPD		13.51	-0.02	-0.02	13.58	0.02	0.02	MC
KVT4J2		14.69	1.16	1.41	14.98	1.42	1.76	MM
LP2A4F		13.10	-0.43	-0.52	13.29	-0.27	-0.33	MC
MCQYBJ	*	15.67	2.15	2.61	15.86	2.30	2.85	TP
MTF89G		13.30	-0.23	-0.28	13.24	-0.32	-0.39	MC
P4A3JH		13.06	-0.47	-0.57	13.28	-0.28	-0.35	MC
PGWET7		12.46	-1.07	-1.30	12.57	-0.99	-1.23	MC
PNU9MX		13.84	0.32	0.38	13.70	0.14	0.18	XX
PYEBBK		13.98	0.45	0.55	13.93	0.37	0.46	MC
R6XC8F		13.39	-0.14	-0.17	13.13	-0.43	-0.53	MC
RWZK28		13.83	0.30	0.36	13.38	-0.18	-0.22	MM
T4HFEF		12.80	-0.73	-0.89	12.68	-0.88	-1.09	MC
T7M4U7		14.98	1.45	1.76	14.92	1.35	1.68	MC
UA2ZZ8		13.70	0.17	0.21	13.75	0.18	0.23	MC
UJQNVA		13.30	-0.22	-0.27	13.22	-0.34	-0.42	MC
UZD8NB		13.78	0.25	0.31	13.84	0.28	0.35	MC
WH8L28		13.46	-0.07	-0.08	13.34	-0.22	-0.27	MD
XCYHQY		13.76	0.23	0.29	13.86	0.30	0.37	MC
XDT9WD		14.47	0.94	1.14	13.98	0.42	0.52	MC

WebCode	Data Flag	Sample X15-X16 Lab Mean	Sample X15-X16 Diff from Grand Mean	Sample X15-X16 CPV	Sample X17-X18 Lab Mean	Sample X17-X18 Diff from Grand Mean	Sample X17-X18 CPV	Instr Code
YZJU9K		12.75	-0.78	-0.95	12.87	-0.69	-0.86	ME

Summary Statistics

	X15-X16	X17-X18
Grand Means	13.528 lbf.in	13.561 lbf.in
Stnd Dev Btwn Labs	0.822 lbf.in	0.807 lbf.in

Statistics based on 39 of 39 reporting participants

Summary Statistics in SI Units

	X15-X16	X17-X18
Grand Means	15.285 dN.m	15.322 dN.m
Stnd Dev Btwn Labs	0.929 dN.m	0.912 dN.m

Statistics based on 39 of 39 reporting participants

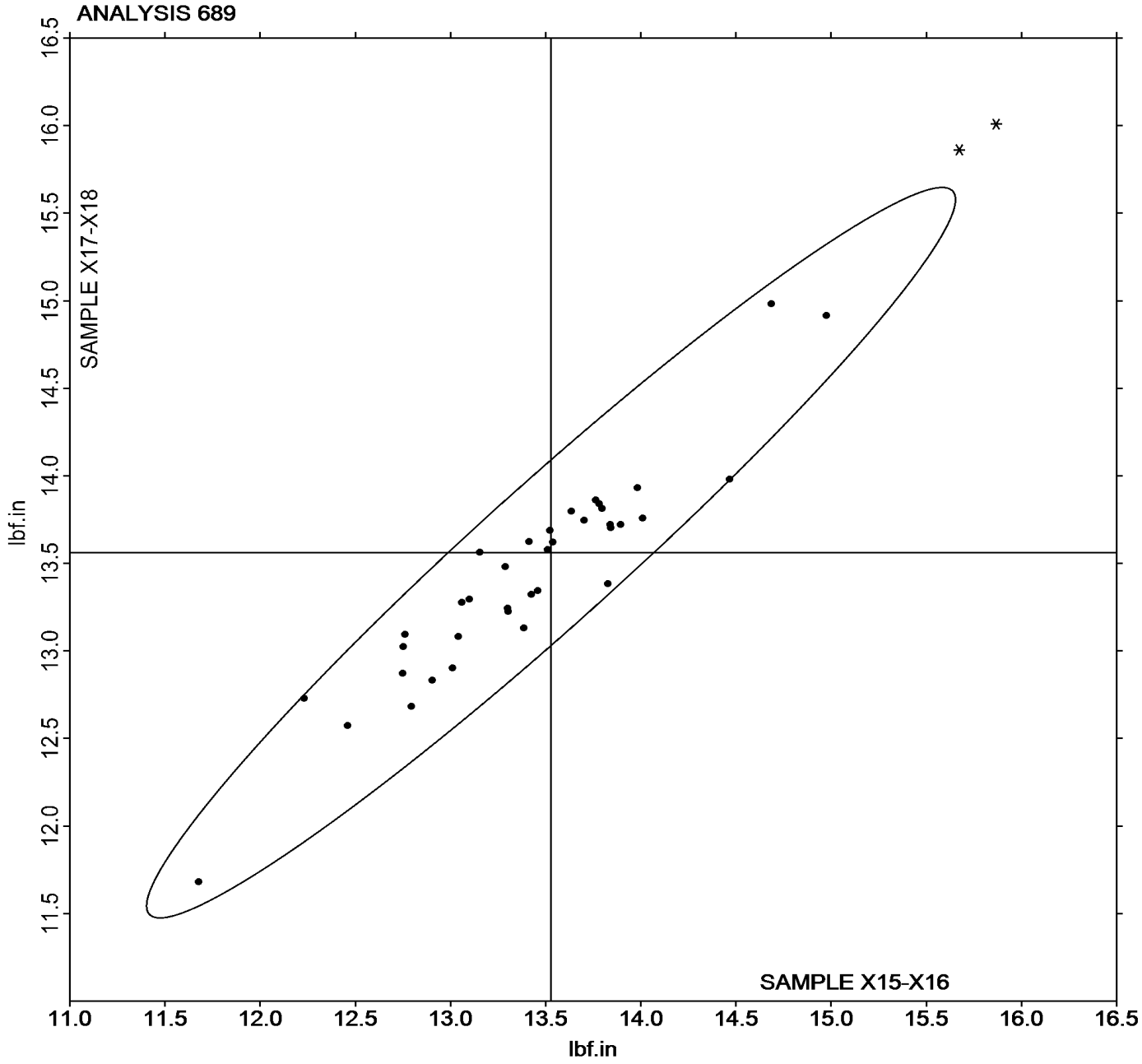
Samples X15-X16: EPDM compound, batch #1 & X17-X18: EPDM compound, batch #2

Key to Instrument Codes Reported by Participants

MC	Alpha Technologies [Monsanto] MDR 2000 or 2000E	MD	Alpha Tech. Rubber Process Analyzer (RPA 2000)
ME	Alpha Tech. MDR Premiere	MM	MonTech MDR 3000
MR	MonTech D-RPA 3000	MX	Rebuilt MonTech Alpha
TP	Tech Pro MDR model MDPT	XX	Instrument model not specified by lab

Grand Mean Sample **X15-X16** = 13.528 lbf.in

Grand Mean Sample **X17-X18** = 13.561 lbf.in



WebCode	Data Flag	Sample F11-F12 Lab Mean	Diff from Grand Mean	CPV	Sample F13-F14 Lab Mean	Diff from Grand Mean	CPV	Instr Code
3Q2MXL		549.8	74.9	1.29	552.1	81.1	1.35	RP
8JKTTQ		417.1	-57.8	-1.00	412.0	-58.9	-0.98	RP
9P4HRR		506.9	32.0	0.55	498.1	27.2	0.45	RP
EGVW7J		390.7	-84.2	-1.45	387.2	-83.7	-1.40	PR
MCQYBJ		559.1	84.2	1.45	564.2	93.3	1.56	XX
RWZK28		460.6	-14.3	-0.25	457.1	-13.8	-0.23	XX
UA2ZZ8		421.7	-53.2	-0.92	415.1	-55.8	-0.93	RP
XDT9WD		500.0	25.1	0.43	495.1	24.1	0.40	RP
YZJU9K		506.1	31.2	0.54	495.2	24.2	0.40	XX
ZWT786		437.1	-37.8	-0.65	433.3	-37.7	-0.63	XX

Summary Statistics

	Sample F11-F12	Sample F13-F14
Grand Means	474.90 kPa	470.94 kPa
Stnd Dev Btwn Labs	57.95 kPa	60.00 kPa

Statistics based on 10 of 10 reporting participants

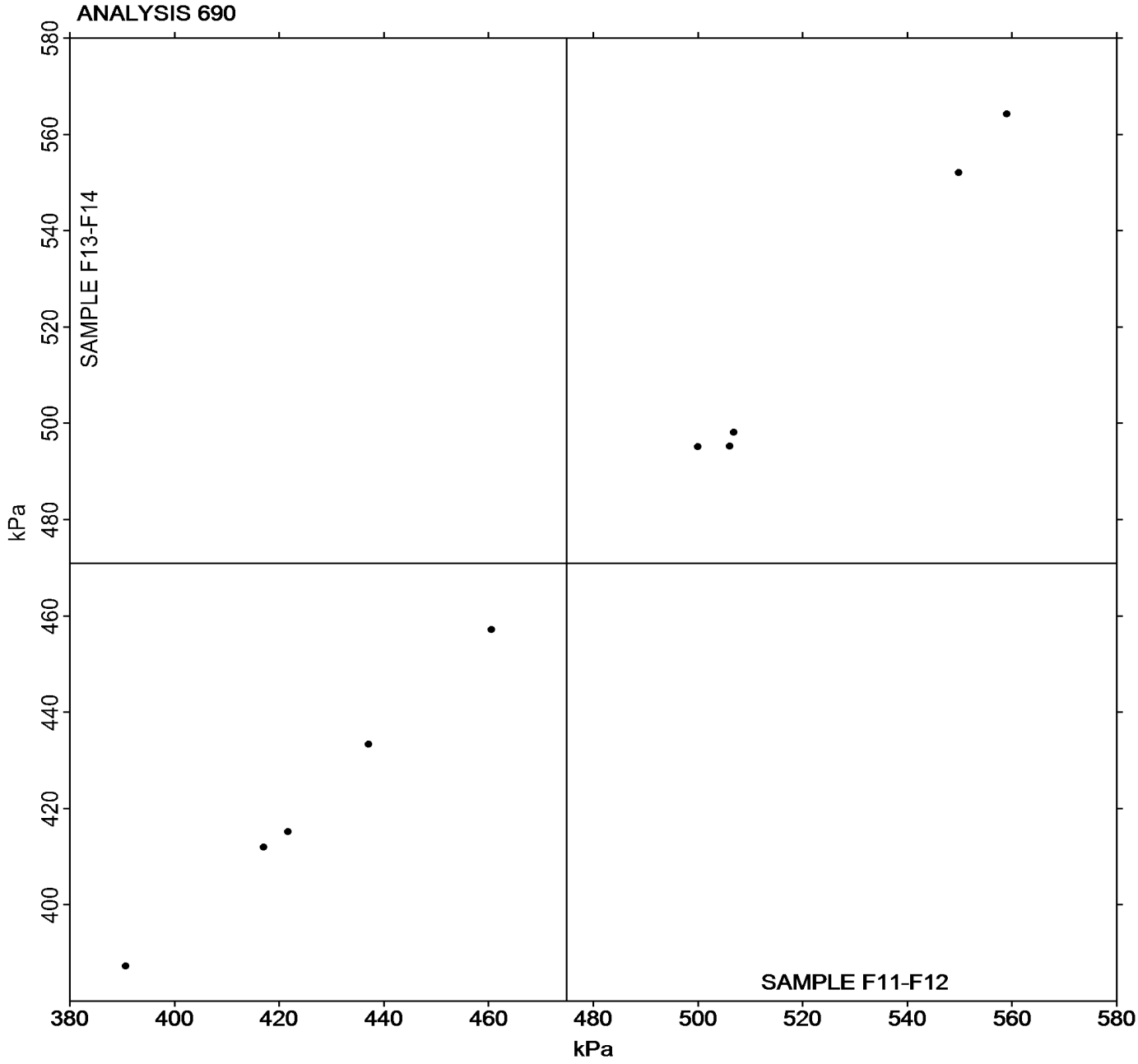
Samples F11-F12: EPDM compound, batch #1 & F13-F14: EPDM compound, batch #2

Key to Instrument Codes Reported by Participants

PR	PRPA 2000	RP	RPA 2000
XX	Instrument model not specified by lab		

Grand Mean Sample **F11-F12** = 474.90 kPa

Grand Mean Sample **F13-F14** = 470.94 kPa



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 F11-F12 Lab Mean	Diff from Grand Mean	CPV	Sample F13-F14 Lab Mean	Diff from Grand Mean	CPV	Instr Code
3Q2MXL		197.0	-13.3	-0.55	197.4	-12.8	-0.52	RP
8JKTTQ		212.3	2.0	0.09	214.9	4.6	0.19	RP
9P4HRR		224.7	14.4	0.60	222.4	12.2	0.50	RP
EGVW7J		196.2	-14.1	-0.59	196.1	-14.1	-0.57	PR
MCQYBJ		258.4	48.1	2.01	262.4	52.2	2.12	XX
RWZK28		168.9	-41.4	-1.73	168.8	-41.4	-1.68	XX
UA2ZZ8		196.6	-13.7	-0.57	195.9	-14.3	-0.58	RP
XDT9WD		204.6	-5.7	-0.24	204.0	-6.2	-0.25	RP
YZJU9K		227.3	17.0	0.71	224.0	13.8	0.56	XX
ZWT786		217.0	6.7	0.28	216.2	6.0	0.24	XX

Summary Statistics

	Sample F11-F12	Sample F13-F14
Grand Means	210.30 kPa	210.22 kPa
Stnd Dev Btwn Labs	23.94 kPa	24.59 kPa

Statistics based on 10 of 10 reporting participants

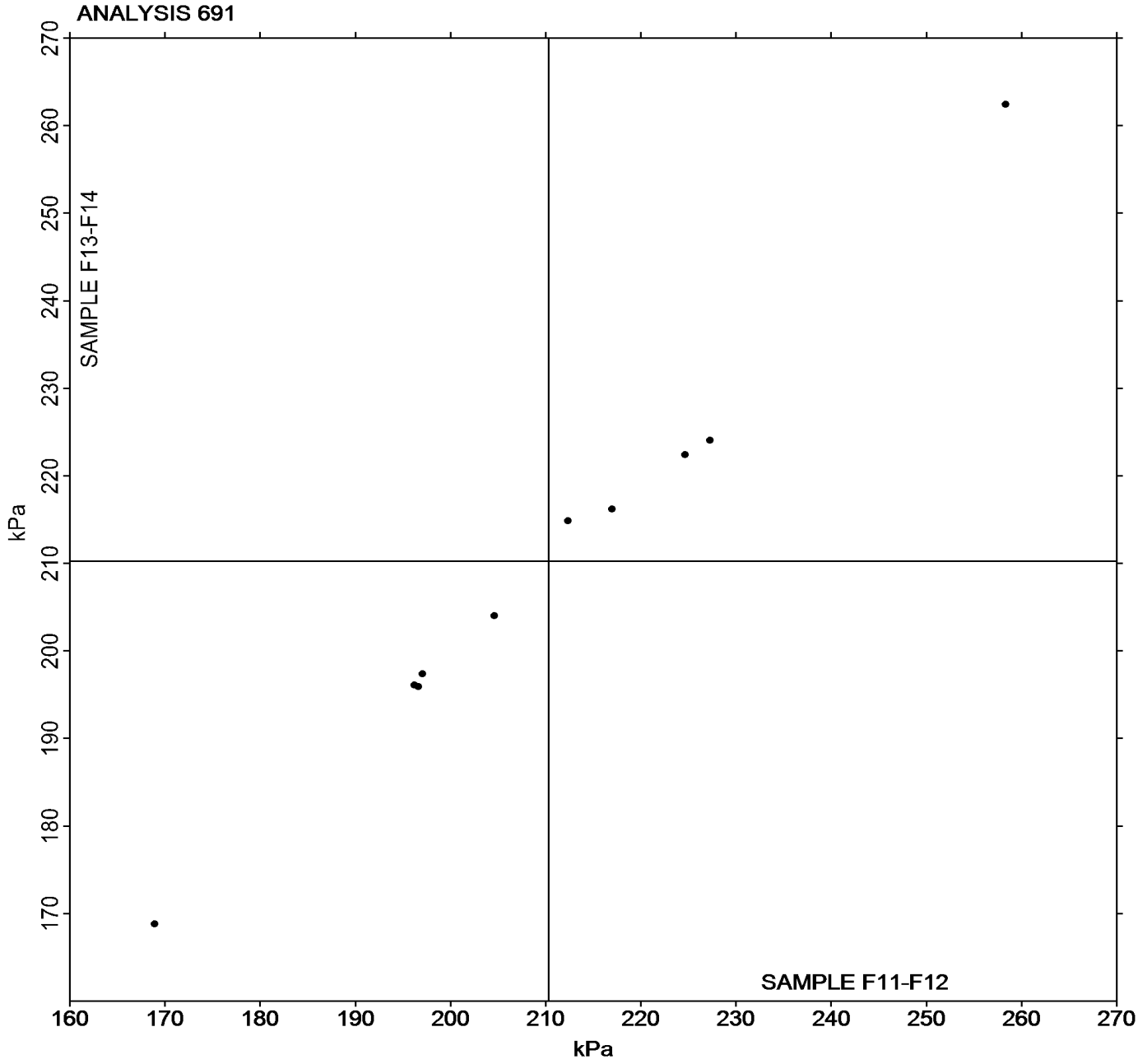
Samples F11-F12: EPDM compound, batch #1 & F13-F14: EPDM compound, batch #2

Key to Instrument Codes Reported by Participants

PR	PRPA 2000	RP	RPA 2000
XX	Instrument model not specified by lab		

Grand Mean Sample **F11-F12** = 210.30 kPa

Grand Mean Sample **F13-F14** = 210.22 kPa



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

RPA Rheological Properties: Part B - G' at 1.0Hz (kPa)

WebCode	Data Flag	Sample F11-F12 Lab Mean	Sample F11-F12 Diff from Grand Mean	Sample F11-F12 CPV	Sample F13-F14 Lab Mean	Sample F13-F14 Diff from Grand Mean	Sample F13-F14 CPV	Instr Code
3Q2MXL		107.58	38.11	2.31	107.11	38.47	2.33	RP
8JKTTQ		55.03	-14.43	-0.88	53.50	-15.14	-0.91	RP
9P4HRR		70.31	0.85	0.05	67.92	-0.71	-0.04	RP
EGVW7J		51.65	-17.82	-1.08	50.96	-17.67	-1.07	PR
MCQYBJ		71.83	2.36	0.14	71.32	2.69	0.16	XX
RWZK28		68.42	-1.04	-0.06	66.31	-2.32	-0.14	XX
UA2ZZ8		59.34	-10.13	-0.61	57.02	-11.62	-0.70	RP
XDT9WD		85.49	16.02	0.97	84.24	15.61	0.94	RP
YZJU9K		62.61	-6.85	-0.42	65.89	-2.74	-0.17	XX
ZWT786		62.39	-7.07	-0.43	62.06	-6.57	-0.40	XX

Summary Statistics

	Sample F11-F12	Sample F13-F14
Grand Means	69.464 kPa	68.631 kPa
Stnd Dev Btwn Labs	16.472 kPa	16.547 kPa

Statistics based on 10 of 10 reporting participants

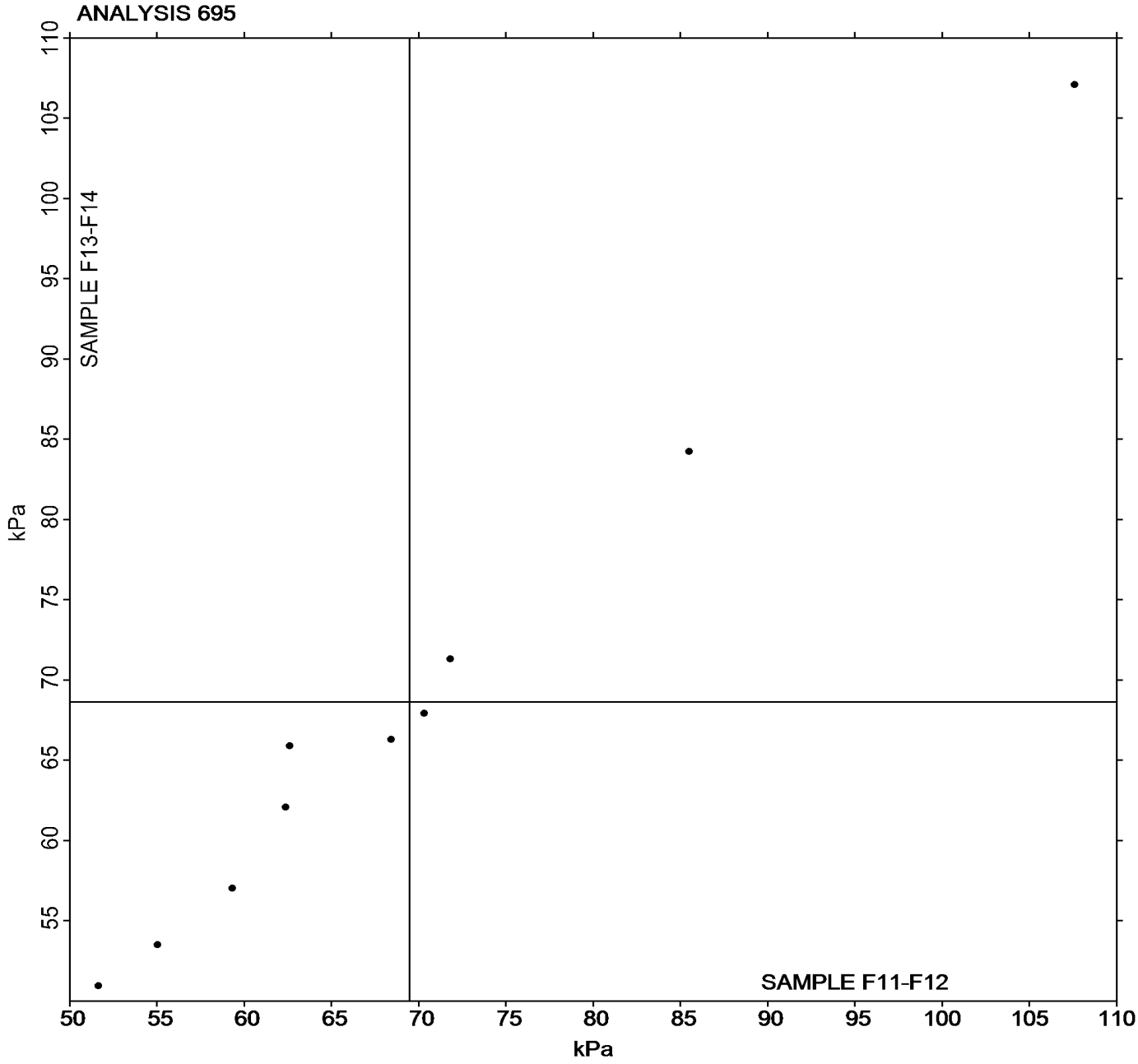
Samples F11-F12: EPDM compound, batch #1 & F13-F14: EPDM compound, batch #2

Key to Instrument Codes Reported by Participants

PR	PRPA 2000	RP	RPA 2000
XX	Instrument model not specified by lab		

Grand Mean Sample **F11-F12** = 69.464 kPa

Grand Mean Sample **F13-F14** = 68.631 kPa



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

RPA Rheological Properties: Part B - G" at 1.0Hz (kPa)

WebCode	Data Flag	Sample F11-F12 Lab Mean	Sample F11-F12 Diff from Grand Mean	Sample F11-F12 CPV	Sample F13-F14 Lab Mean	Sample F13-F14 Diff from Grand Mean	Sample F13-F14 CPV	Instr Code
3Q2MXL		71.37	4.43	0.57	70.81	4.37	0.56	XX
8JKTTQ		58.70	-8.24	-1.06	58.09	-8.35	-1.08	RP
9P4HRR		77.16	10.22	1.32	75.93	9.49	1.23	RP
EGVW7J		55.97	-10.96	-1.41	55.52	-10.92	-1.41	PR
MCQYBJ		74.45	7.52	0.97	75.09	8.65	1.12	XX
RWZK28		62.70	-4.24	-0.54	62.56	-3.88	-0.50	XX
UA2ZZ8		59.91	-7.03	-0.90	59.21	-7.23	-0.93	RP
XDT9WD		67.49	0.56	0.07	67.24	0.80	0.10	RP
YZJU9K		77.03	10.10	1.30	76.01	9.57	1.24	XX
ZWT786		64.57	-2.37	-0.30	63.95	-2.49	-0.32	XX

Summary Statistics

	Sample F11-F12	Sample F13-F14
Grand Means	66.936 kPa	66.441 kPa
Stnd Dev Btwn Labs	7.774 kPa	7.736 kPa

Statistics based on 10 of 10 reporting participants

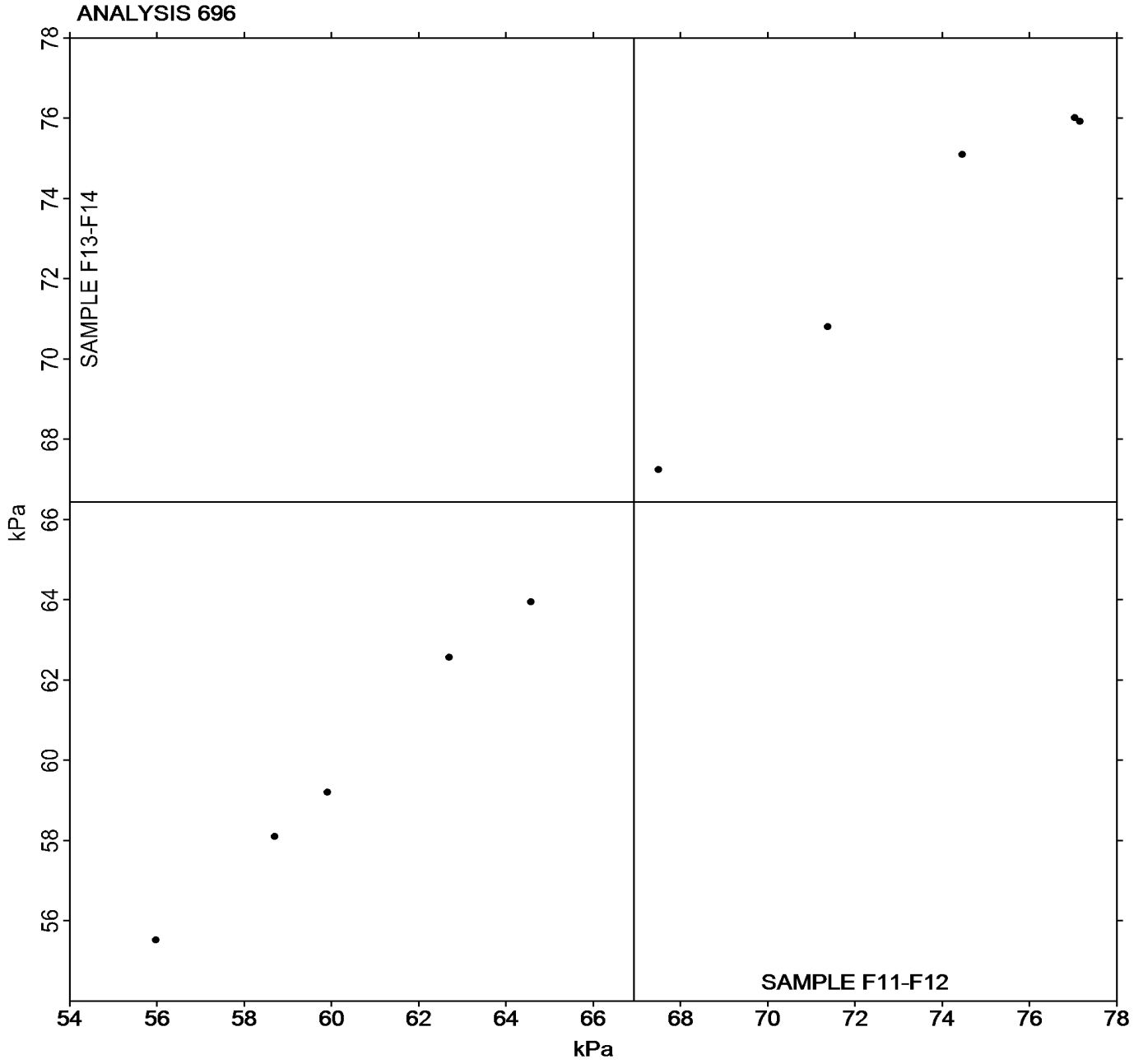
Samples F11-F12: EPDM compound, batch #1 & F13-F14: EPDM compound, batch #2

Key to Instrument Codes Reported by Participants

PR	PRPA 2000	RP	RPA 2000
XX	Instrument model not specified by lab		

Grand Mean Sample **F11-F12** = 66.936 kPa

Grand Mean Sample **F13-F14** = 66.441 kPa



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

-End of Report-