Collaborative Testing Services, Inc.

Rubber Interlaboratory Testing Program

Summary Report #209- 3rd 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.

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Key for Web Summary Report (Page 1 of 2)

WebCode — Assigned laboratory identification number (temporary) used to ensure lab confidentiality while permitting a lab to locate its data in the 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 C11-C12 Lab Mean	Diff from Grand Mean	CPV	Sample C13-C14 Lab Mean	Diff from Grand Mean	CPV
23TYJ2		2,864.5	-239.8	-1.83	3,045.8	-108.2	-0.73
23VT2L		3,121.2	17.0	0.13	3,159.7	5.7	0.04
24LXUT	X	2,425.8	-678.5	-5.19	2,527.3	-626.7	-4.22
27TBF2		3,073.0	-31.3	-0.24	2,983.5	-170.5	-1.15
2FKJ7J		3,227.0	122.7	0.94	3,098.0	-56.0	-0.38
2X3K2L		3,201.0	96.7	0.74	3,229.0	75.0	0.51
3NRMN2		3,036.0	-68.3	-0.52	2,975.2	-178.7	-1.20
3WJZN2	*	2,980.6	-123.7	-0.95	2,813.8	-340.2	-2.29
469B9G		2,974.5	-129.8	-0.99	3,040.5	-113.5	-0.76
4A3693		3,078.0	-26.3	-0.20	3,237.9	83.9	0.57
4BZHRP		3,135.1	30.8	0.24	3,235.6	81.6	0.55
4EUEEV		3,273.0	168.7	1.29	3,310.0	156.0	1.05
4JQ4XM		3,072.0	-32.3	-0.25	3,016.0	-138.0	-0.93
4UC3RY		3,328.3	224.0	1.71	3,230.7	76.7	0.52
6KGJQV		3,188.0	83.7	0.64	3,203.0	49.0	0.33
6VFJ2E		2,976.4	-127.9	-0.98	2,966.3	-187.7	-1.26
6VGCX2		2,890.0	-214.3	-1.64	3,015.0	-139.0	-0.94
7FKEBW	X	2,620.7	-483.6	-3.70	2,650.7	-503.3	-3.39
7GDDKN		3,071.2	-33.1	-0.25	3,082.1	-71.9	-0.48
7L838M		3,359.5	255.2	1.95	3,365.0	211.0	1.42
7Q4V2H		3,339.5	235.2	1.80	3,346.5	192.5	1.30
7R2WBG		2,972.0	-132.3	-1.01	3,113.0	-41.0	-0.28
7XJFKH		3,014.6	-89.7	-0.69	3,131.0	-22.9	-0.15
7XL32V		3,071.3	-33.0	-0.25	3,086.4	-67.6	-0.46
8PQJZR	*	3,359.8	255.6	1.96	3,558.5	404.5	2.73
8XHYPW		3,044.3	-60.0	-0.46	3,122.0	-32.0	-0.22
9QDKEE		3,246.3	142.0	1.09	3,181.2	27.2	0.18
A34TFT		2,910.6	-193.7	-1.48	3,062.4	-91.6	-0.62
AAJCVL	*	2,919.3	-185.0	-1.42	2,787.6	-366.3	-2.47
AG3DGQ		3,138.7	34.4	0.26	3,160.6	6.6	0.04
AHH2DB		3,259.5	155.2	1.19	3,379.5	225.5	1.52
AKLMCA		3,219.9	115.6	0.88	3,166.2	12.2	0.08
ATZDUU		3,225.0	120.7	0.92	3,181.0	27.0	0.18
BM3GH9		3,041.0	-63.3	-0.48	3,268.5	114.5	0.77
CJNURB		3,027.8	-76.5	-0.59	3,079.1	-74.9	-0.51
CLTUJU		3,037.5	-66.8	-0.51	3,100.0	-54.0	-0.36
CM74UF		2,955.0	-149.3	-1.14	3,144.0	-10.0	-0.07
DFEDMB		3,145.0	40.7	0.31	3,115.0	-39.0	-0.26

WebCode	Data Flag	Sample C11-C12 Lab Mean	Sample C11-C12 Diff from Grand Mean	Sample C11-C12 CPV	Sample C13-C14 Lab Mean	Sample C13-C14 Diff from Grand Mean	Sample C13-C14 CPV
DP6YTA		3,096.6	-7.7	-0.06	3,183.6	29.6	0.20
DQJGXZ		3,135.0	30.7	0.24	3,300.0	146.0	0.98
E2D4GG		3,059.6	-44.7	-0.34	3,077.7	-76.3	-0.51
E43HUX		3,157.1	52.8	0.40	3,104.0	-50.0	-0.34
E8KRUH		2,990.0	-114.3	-0.87	2,983.5	-170.5	-1.15
EP2VGA		3,141.4	37.2	0.28	3,196.5	42.6	0.29
EQWEHC		2,932.8	-171.5	-1.31	3,039.9	-114.1	-0.77
FCD2Q3		3,127.5	23.2	0.18	2,984.0	-170.0	-1.15
FGLCWB	*	2,782.6	-321.7	-2.46	2,724.6	-429.4	-2.89
FWKCV7		3,305.0	200.7	1.54	3,288.5	134.5	0.91
GBVEMD		3,161.5	57.2	0.44	3,234.0	80.0	0.54
GJA4LL		2,965.5	-138.8	-1.06	3,074.5	-79.5	-0.54
GKFTMA		3,098.0	-6.3	-0.05	3,216.0	62.0	0.42
GUTKC8		3,172.7	68.5	0.52	3,185.1	31.1	0.21
H2KD3D		3,337.0	232.7	1.78	3,437.0	283.0	1.91
JACG4D		3,256.1	151.9	1.16	3,227.1	73.1	0.49
JAWVWW		2,956.3	-148.0	-1.13	2,977.0	-177.0	-1.19
JXF9LB		2,980.6	-123.7	-0.95	2,894.3	-259.7	-1.75
KCXFYM		3,251.0	146.8	1.12	3,292.4	138.4	0.93
KXYA8D		2,989.0	-115.3	-0.88	3,069.5	-84.5	-0.57
LJBRRE		3,037.5	-66.8	-0.51	3,196.5	42.5	0.29
LQR6TX		3,128.4	24.1	0.18	3,119.4	-34.6	-0.23
LQUXPK		3,005.2	-99.1	-0.76	3,142.2	-11.8	-0.08
LTYMP9		3,079.0	-25.3	-0.19	3,288.5	134.5	0.91
LUBHAF		3,057.4	-46.9	-0.36	3,154.6	0.6	0.00
LURGNX		3,161.3	57.0	0.44	3,161.7	7.7	0.05
LYZYL7		2,963.5	-140.8	-1.08	2,950.0	-204.0	-1.37
LZVHM8		3,103.0	-1.2	-0.01	3,214.6	60.6	0.41
M4EYFC		3,128.7	24.5	0.19	3,238.2	84.2	0.57
MA3HZE		3,285.1	180.9	1.38	3,350.4	196.4	1.32
MAF7YK	X	3,040.0	-64.3	-0.49	2,735.0	-419.0	-2.82
MTCEF6		3,262.5	158.2	1.21	3,222.0	68.0	0.46
NGW486		3,108.5	4.2	0.03	3,102.5	-51.5	-0.35
P2XNAH	*	2,755.0	-349.3	-2.67	2,728.2	-425.8	-2.87
PGTY3F		3,146.4	42.1	0.32	3,121.2	-32.8	-0.22
PHNKW8		3,230.5	126.2	0.97	3,172.5	18.5	0.12
PZA27V		3,320.0	215.7	1.65	3,420.0	266.0	1.79

WebCode	Data Flag	Sample C11-C12 Lab Mean	Diff from Grand Mean	CPV	Sample C13-C14 Lab Mean	Diff from Grand Mean	CPV
Q3M8W2		3,080.6	-23.6	-0.18	3,129.2	-24.8	-0.17
QCDQDV		2,993.5	-110.8	-0.85	3,153.5	-0.5	0.00
R3GDQ2		3,067.0	-37.2	-0.28	3,156.9	3.0	0.02
REGY4R		3,060.3	-43.9	-0.34	3,188.0	34.0	0.23
RJAXHM		3,010.0	-94.3	-0.72	3,272.5	118.5	0.80
RUC9Z6		3,219.4	115.2	0.88	3,267.8	113.8	0.77
RYKTN3		3,103.5	-0.8	-0.01	3,126.0	-28.0	-0.19
U2LERT		3,133.5	29.2	0.22	3,239.9	85.9	0.58
U4D8T4	*	2,761.0	-343.3	-2.63	2,824.0	-330.0	-2.22
U66JAN	X	3,939.3	835.0	6.39	3,901.1	747.1	5.03
UADUFW		3,272.1	167.8	1.28	3,309.0	155.0	1.04
UM4L22		2,995.0	-109.3	-0.84	3,225.5	71.5	0.48
UPA3KQ		3,193.6	89.3	0.68	3,302.5	148.5	1.00
VH8EZ4		3,173.4	69.1	0.53	3,156.8	2.8	0.02
WE32ZG		3,101.0	-3.3	-0.03	3,124.0	-30.0	-0.20
WPKM26		3,102.5	-1.8	-0.01	3,054.5	-99.5	-0.67
WVNMHM		3,105.0	0.7	0.01	3,242.0	88.0	0.59
WXWJ8X		3,135.0	30.7	0.24	3,365.0	211.0	1.42
XFAM3N		3,122.0	17.7	0.14	3,294.0	140.0	0.94
YC6ED4		3,177.4	73.1	0.56	3,233.1	79.1	0.53
YMPLA8		3,210.0	105.7	0.81	3,209.0	55.0	0.37
YUNDGG		3,183.0	78.7	0.60	3,339.0	185.0	1.25
YVLJYV		3,129.9	25.7	0.20	3,325.0	171.0	1.15
YWWKLU	X	2,740.0	-364.3	-2.79	3,160.5	6.5	0.04
ZF4ACW		2,956.0	-148.3	-1.13	3,160.5	6.5	0.04
ZGWYZK		3,172.7	68.5	0.52	3,151.7	-2.3	-0.02
ZNF39M		2,981.0	-123.3	-0.94	2,914.5	-239.5	-1.61
ZPMQZX		3,336.6	232.3	1.78	3,266.3	112.3	0.76

Summary Statistics

	Sample C11-C12	Sample C13-C14
Grand Means	3,104.27 psi	3,153.99 psi
Stnd Dev Btwn Labs	130.71 psi	148.39 psi

Statistics based on 98 of 103 reporting participants

Summary Statistics in SI Units		
Grand Means	21.403 MPa	21.75 MPa
Stnd Dev Btwn Labs	0.901 MPa	1.02 MPa
		Statistics based on 98 of 103 reporting participants

Samples C11-C12: Polyisoprene compound, batch #1 & C13-C14: Polyisoprene compound, batch #2

Comments on Assigned Data Flags for Test #605

24LXUT (X) - Data for all samples are low. Possible Systematic Error.

7FKEBW (X) - Data for all samples are low. Possible Systematic Error.

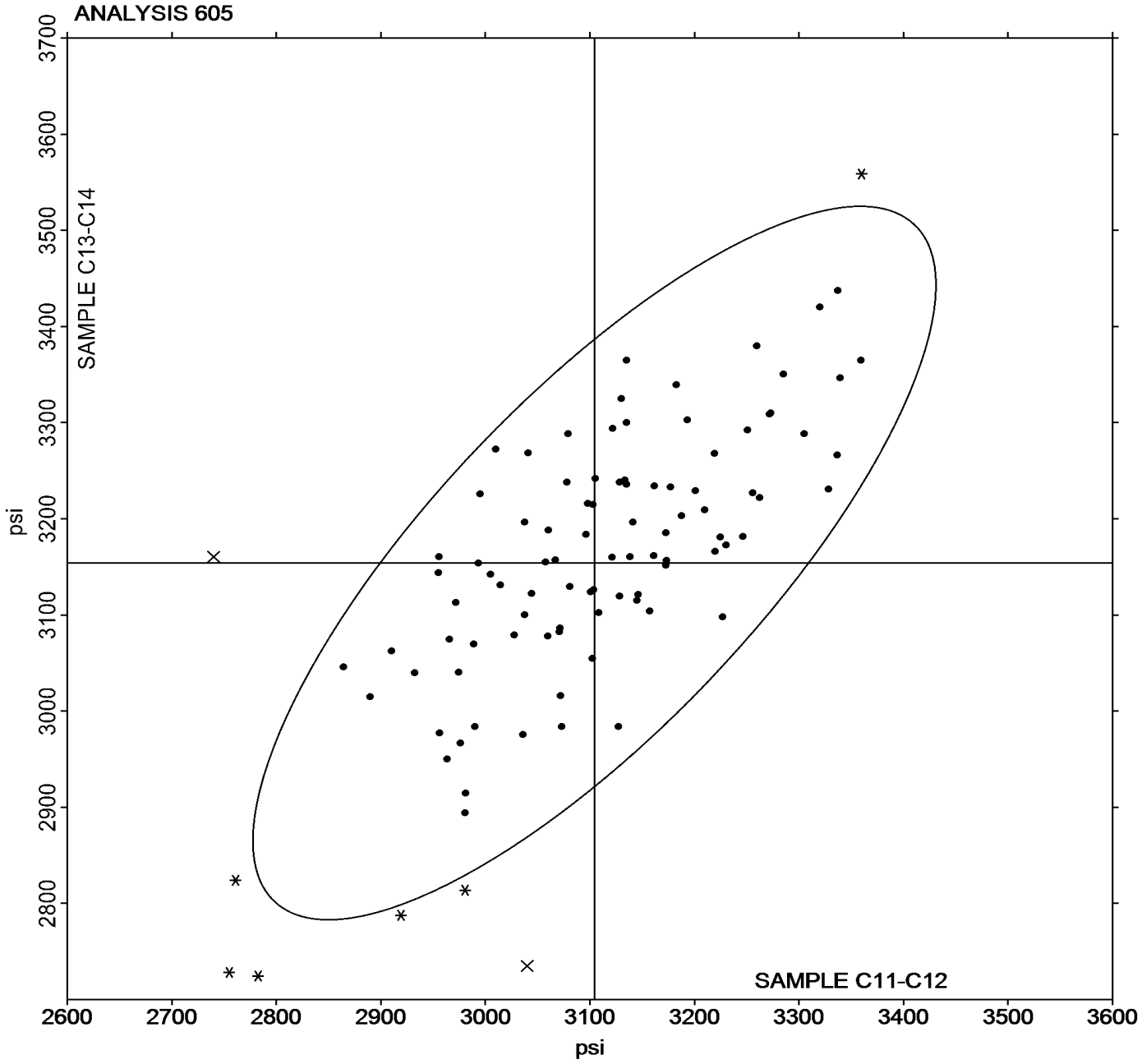
MAF7YK (X) - Inconsistency in testing between samples, data for sample group C13-C14 are low.

U66JAN (X) - Data for all samples are high. Possible Systematic Error.

YWWKLU (X) - Inconsistency in testing between samples, data for sample group C11-C12 are low.

Grand Mean Sample **C11-C12** = 3,104.27 psi

Grand Mean Sample **C13-C14** = 3,153.99 psi



WebCode	Data Flag	Sample C11-C12 Lab Mean	Diff from Grand Mean	CPV	Sample C13-C14 Lab Mean	Diff from Grand Mean	CPV
23TYJ2		648.0	-14.7	-0.46	652.1	-6.2	-0.20
23VT2L		671.5	8.9	0.28	684.5	26.3	0.83
24LXUT	X	773.0	110.4	3.49	756.5	98.3	3.12
27TBF2		679.9	17.3	0.55	658.3	0.1	0.00
2FKJ7J		664.0	1.4	0.04	647.5	-10.7	-0.34
2X3K2L		695.0	32.4	1.02	693.5	35.3	1.12
3NRMN2		685.8	23.2	0.73	673.7	15.4	0.49
3WJZN2		607.0	-55.6	-1.76	608.0	-50.2	-1.60
469B9G		675.5	12.9	0.41	673.5	15.3	0.49
4A3693	X	824.5	161.9	5.12	730.1	71.9	2.28
4BZHRP		680.0	17.4	0.55	676.5	18.3	0.58
4EUEEV		607.0	-55.6	-1.76	602.5	-55.7	-1.77
4JQ4XM		672.0	9.4	0.30	655.5	-2.7	-0.09
4UC3RY		694.4	31.8	1.00	674.8	16.5	0.53
6KGJQV		662.0	-0.6	-0.02	678.0	19.8	0.63
6VFJ2E		643.5	-19.1	-0.61	620.0	-38.2	-1.22
7FKEBW		629.5	-33.2	-1.05	615.9	-42.4	-1.35
7GDDKN		638.0	-24.6	-0.78	640.5	-17.7	-0.56
7L838M		666.5	3.9	0.12	638.0	-20.2	-0.64
7Q4V2H	X	728.0	65.4	2.07	750.5	92.3	2.93
7R2WBG		674.5	11.9	0.38	664.0	5.8	0.18
7XJFKH		648.3	-14.3	-0.45	647.8	-10.5	-0.33
7XL32V		646.0	-16.6	-0.53	640.0	-18.2	-0.58
8PQJZR		636.1	-26.5	-0.84	622.9	-35.4	-1.12
8XHYPW		636.2	-26.4	-0.84	622.4	-35.8	-1.14
9QDKEE		638.0	-24.6	-0.78	610.0	-48.2	-1.53
A34TFT		642.5	-20.1	-0.64	659.0	0.8	0.02
AAJCVL	X	1,088.5	425.9	13.47	885.0	226.8	7.21
AG3DGQ		655.0	-7.6	-0.24	667.5	9.3	0.29
AHH2DB		719.0	56.4	1.78	708.0	49.8	1.58
AKLMCA		690.5	27.9	0.88	687.0	28.8	0.91
ATZDUU		678.5	15.9	0.50	671.5	13.3	0.42
BM3GH9		671.5	8.9	0.28	666.5	8.3	0.26
CJNURB		601.1	-61.6	-1.95	604.8	-53.4	-1.70
CLTUJU		621.5	-41.1	-1.30	640.5	-17.7	-0.56
CM74UF		648.5	-14.1	-0.45	651.5	-6.7	-0.21
DFEDMB		640.5	-22.1	-0.70	632.5	-25.7	-0.82

WebCode	Data Flag	Sample C11-C12 Lab Mean	Diff from Grand Mean	CPV	Sample C13-C14 Lab Mean	Diff from Grand Mean	CPV
DP6YTA		692.0	29.4	0.93	688.0	29.8	0.95
DQJGXZ		620.0	-42.6	-1.35	620.0	-38.2	-1.22
E2D4GG		642.0	-20.6	-0.65	632.5	-25.7	-0.82
E43HUX		651.1	-11.5	-0.36	653.7	-4.5	-0.14
E8KRUH		638.5	-24.2	-0.77	614.9	-43.3	-1.38
EP2VGA		647.5	-15.1	-0.48	658.0	-0.2	-0.01
EQWEHC		693.0	30.4	0.96	675.5	17.3	0.55
FCD2Q3		587.0	-75.6	-2.39	593.5	-64.7	-2.06
FGLCWB		634.0	-28.6	-0.91	636.0	-22.2	-0.71
FWKCV7		674.0	11.4	0.36	670.5	12.3	0.39
GBVEMD		679.0	16.4	0.52	671.0	12.8	0.41
GJA4LL		707.5	44.9	1.42	699.5	41.3	1.31
GKFTMA		667.5	4.9	0.15	649.5	-8.7	-0.28
GUTKC8		638.3	-24.4	-0.77	633.7	-24.5	-0.78
H2KD3D		663.0	0.4	0.01	670.0	11.8	0.37
JACG4D		697.5	34.9	1.10	700.5	42.3	1.34
JAWVWW		656.5	-6.1	-0.19	635.8	-22.5	-0.71
JXF9LB	X	1,213.5	550.9	17.42	1,203.0	544.8	17.31
KCXFYM		661.0	-1.6	-0.05	660.5	2.3	0.07
KXYA8D		618.5	-44.1	-1.40	618.5	-39.7	-1.26
LJBRRE		654.5	-8.1	-0.26	666.0	7.8	0.25
LQR6TX	X	336.6	-326.0	-10.31	339.7	-318.5	-10.12
LQUXPK		697.3	34.7	1.10	668.3	10.1	0.32
LTYMP9		703.5	40.9	1.29	705.0	46.8	1.49
LUBHAF		693.0	30.3	0.96	687.8	29.5	0.94
LURGNX		626.8	-35.9	-1.14	638.5	-19.8	-0.63
LYZYL7	X	701.0	38.4	1.21	640.0	-18.2	-0.58
LZVHM8		698.5	35.9	1.13	689.6	31.4	1.00
M4EYFC	*	758.2	95.6	3.02	743.5	85.3	2.71
MA3HZE		659.0	-3.6	-0.12	654.0	-4.2	-0.13
MAF7YK	*	648.0	-14.6	-0.46	610.0	-48.2	-1.53
MTCEF6		663.0	0.4	0.01	661.0	2.8	0.09
NGW486		680.5	17.9	0.56	687.0	28.8	0.91
PGTY3F		682.7	20.0	0.63	681.5	23.2	0.74
PHNKW8		660.0	-2.6	-0.08	667.5	9.3	0.29
PZA27V		714.5	51.9	1.64	699.5	41.3	1.31
QCDQDV		671.0	8.4	0.26	676.5	18.3	0.58
R3GDQ2		639.3	-23.4	-0.74	663.4	5.2	0.17

WebCode	Data Flag	Sample C11-C12 Lab Mean	Diff from Grand Mean	CPV	Sample C13-C14 Lab Mean	Diff from Grand Mean	CPV
REGY4R		629.0	-33.6	-1.06	622.0	-36.2	-1.15
RJAXHM		696.0	33.4	1.06	709.0	50.8	1.61
RUC9Z6		698.6	36.0	1.14	685.4	27.2	0.86
RYKTN3		644.5	-18.1	-0.57	635.5	-22.7	-0.72
U2LERT		654.0	-8.6	-0.27	659.5	1.3	0.04
U4D8T4		689.0	26.4	0.83	695.0	36.8	1.17
U66JAN	X	779.8	117.1	3.71	780.6	122.4	3.89
UADUFW		637.2	-25.4	-0.80	623.1	-35.1	-1.12
UM4L22		623.0	-39.6	-1.25	629.5	-28.7	-0.91
UPA3KQ		595.5	-67.1	-2.12	604.0	-54.2	-1.72
VH8EZ4		652.1	-10.6	-0.34	636.2	-22.0	-0.70
WE32ZG	X	548.5	-114.1	-3.61	557.5	-100.7	-3.20
WPKM26		660.0	-2.6	-0.08	657.5	-0.7	-0.02
WVNMHM		669.5	6.9	0.22	657.0	-1.2	-0.04
WXWJ8X		663.0	0.4	0.01	653.5	-4.7	-0.15
XFAM3N		708.0	45.4	1.43	709.0	50.8	1.61
YC6ED4		693.5	30.9	0.98	704.5	46.3	1.47
YMPLA8		702.0	39.4	1.24	689.0	30.8	0.98
YUNDGG		656.0	-6.6	-0.21	663.0	4.8	0.15
YVLJYV		643.0	-19.6	-0.62	627.0	-31.2	-0.99
YWWKLU	X	599.0	-63.6	-2.01	649.5	-8.7	-0.28
ZF4ACW		611.5	-51.1	-1.62	606.0	-52.2	-1.66
ZGWYZK		710.0	47.4	1.50	690.0	31.8	1.01
ZNF39M		700.0	37.4	1.18	694.5	36.3	1.15
ZPMQZX		717.8	55.1	1.74	721.7	63.5	2.02

Summary Statistics

	Sample C11-C12	Sample C13-C14
Grand Means	662.64 percent	658.24 percent
Stnd Dev Btwn Labs	31.61 percent	31.46 percent

Statistics based on 90 of 100 reporting participants

Samples C11-C12: Polyisoprene compound, batch #1 & C13-C14: Polyisoprene compound, batch #2

Comments on Assigned Data Flags for Test #606

24LXUT (X) - Data for all samples are high. Possible Systematic Error.

4A3693 (X) - Inconsistency in testing between samples, data for sample group C11-C12 are high. Inconsistent within the determinations of sample group C11-C12.

7Q4V2H (X) - Inconsistency in testing between samples, data for sample group C13-C14 are high. Inconsistent in testing between sample groups.

AAJCVL (X) - Inconsistency in testing between samples, data for sample group C11-C12 are high. Also Inconsistent within the determinations of sample group C13-C11.

JXF9LB (X) - Extreme Data for both sample groups.

LQR6TX (X) - Data for all samples are low.

LYZYL7 (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample group C11-C12.

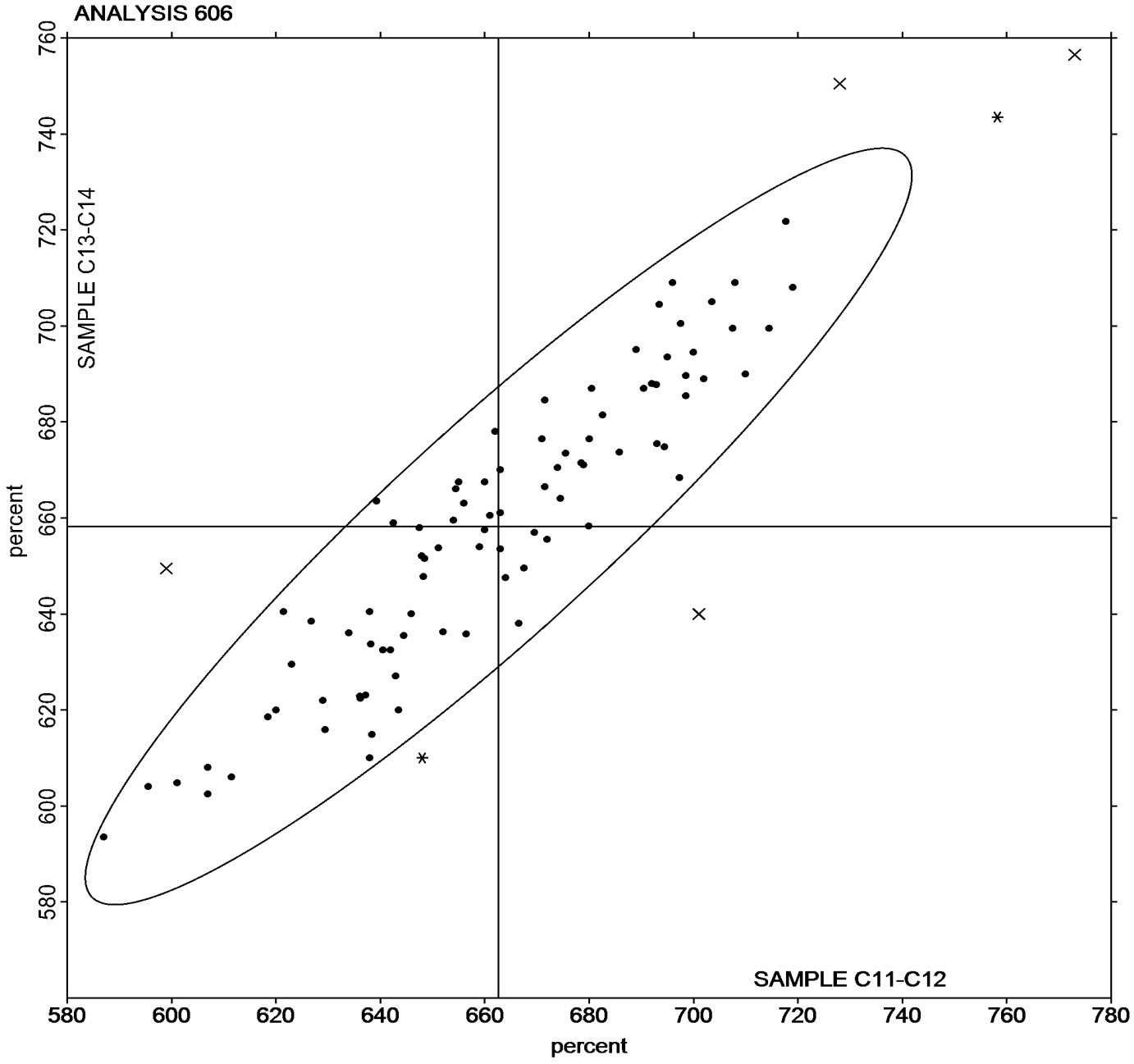
U66JAN (X) - Data for all samples are high. Possible Systematic Error.

WE32ZG (X) - Data for all samples are low. Possible Systematic Error.

YWWKLU (X) - Inconsistent in testing between samples.

Grand Mean Sample **C11-C12** = 662.64 percent

Grand Mean Sample **C13-C14** = 658.24 percent



WebCode	Data Flag	Sample C11-C12 Lab Mean	Sample C11-C12 Diff from Grand Mean	Sample C11-C12 CPV	Sample C13-C14 Lab Mean	Sample C13-C14 Diff from Grand Mean	Sample C13-C14 CPV
23TYJ2		672.3	-32.3	-0.54	730.3	1.9	0.03
23VT2L		706.3	1.8	0.03	700.5	-27.8	-0.45
24LXUT	X	421.3	-283.2	-4.78	451.1	-277.3	-4.50
27TBF2		680.7	-23.9	-0.40	654.2	-74.2	-1.20
2FKJ7J		679.0	-25.5	-0.43	682.5	-45.8	-0.74
2X3K2L		647.5	-57.0	-0.96	674.0	-54.3	-0.88
3NRMN2		607.8	-96.7	-1.63	648.3	-80.0	-1.30
3WJZN2	X	1,059.5	355.0	5.99	940.6	212.2	3.45
469B9G		649.0	-55.5	-0.94	689.5	-38.8	-0.63
4A3693		683.9	-20.6	-0.35	749.2	20.8	0.34
4BZHRP		669.8	-34.7	-0.59	709.3	-19.1	-0.31
4EUEEV	*	857.0	152.5	2.57	882.0	153.7	2.50
4JQ4XM		721.0	16.5	0.28	752.0	23.7	0.38
4UC3RY		699.2	-5.3	-0.09	719.3	-9.1	-0.15
6KGJQV		719.0	14.5	0.24	698.0	-30.3	-0.49
6VFJ2E		706.1	1.6	0.03	748.3	19.9	0.32
7FKEBW		646.5	-58.0	-0.98	707.1	-21.2	-0.34
7GDDKN		723.0	18.5	0.31	750.6	22.2	0.36
7L838M		738.0	33.5	0.57	809.5	81.2	1.32
7Q4V2H		660.5	-44.0	-0.74	625.5	-102.8	-1.67
7R2WBG		620.5	-84.0	-1.42	647.0	-81.3	-1.32
7XJFKH		716.6	12.0	0.20	787.7	59.3	0.96
7XL32V		714.1	9.5	0.16	702.0	-26.3	-0.43
8PQJZR	X	806.6	102.0	1.72	1,029.7	301.4	4.89
8XHYPW		716.8	12.3	0.21	776.4	48.1	0.78
9QDKEE	*	844.9	140.4	2.37	886.6	158.3	2.57
A34TFT		711.9	7.3	0.12	739.7	11.4	0.18
AAJCVL	X	319.8	-384.7	-6.50	475.0	-253.3	-4.11
AG3DGQ		704.0	-0.5	-0.01	663.0	-65.3	-1.06
AHH2DB		659.5	-45.0	-0.76	694.0	-34.3	-0.56
AKLMCA		698.4	-6.2	-0.10	702.7	-25.6	-0.42
ATZDUU		717.5	13.0	0.22	698.5	-29.8	-0.48
BM3GH9		674.5	-30.0	-0.51	707.5	-20.8	-0.34
CJNURB		809.0	104.5	1.76	818.5	90.2	1.46
CLTUJU		757.0	52.5	0.89	753.0	24.7	0.40
CM74UF		755.0	50.5	0.85	781.0	52.7	0.86
DFEDMB	*	871.0	166.5	2.81	855.0	126.7	2.06

WebCode	Data Flag	Sample C11-C12 Lab Mean	Sample C11-C12 Diff from Grand Mean	Sample C11-C12 CPV	Sample C13-C14 Lab Mean	Sample C13-C14 Diff from Grand Mean	Sample C13-C14 CPV
DP6YTA		655.6	-48.9	-0.83	645.4	-82.9	-1.35
DQJGXZ		813.5	109.0	1.84	844.5	116.2	1.89
E2D4GG		730.3	25.8	0.43	752.0	23.7	0.38
E43HUX		770.5	66.0	1.11	709.1	-19.2	-0.31
E8KRUH		725.8	21.3	0.36	756.8	28.4	0.46
EQWEHC		642.0	-62.6	-1.06	696.9	-31.4	-0.51
FCD2Q3		790.0	85.5	1.44	803.5	75.2	1.22
FGLCWB		706.3	1.8	0.03	667.2	-61.2	-0.99
FWKCV7		670.5	-34.0	-0.57	731.5	3.2	0.05
GBVEMD		711.0	6.5	0.11	744.5	16.2	0.26
GJA4LL		615.0	-89.5	-1.51	638.5	-89.8	-1.46
GKFTMA		686.5	-18.0	-0.30	689.5	-38.8	-0.63
GUTKC8		736.1	31.6	0.53	744.8	16.4	0.27
H2KD3D		745.0	40.5	0.68	763.0	34.7	0.56
JACG4D		729.5	25.0	0.42	675.9	-52.5	-0.85
JAWVWW		686.2	-18.3	-0.31	704.1	-24.3	-0.39
JXF9LB	X	333.6	-370.9	-6.26	337.9	-390.4	-6.34
KCXFYM		733.9	29.4	0.50	729.5	1.2	0.02
KXYA8D		749.5	45.0	0.76	783.5	55.2	0.90
LJBRRE		674.5	-30.0	-0.51	725.5	-2.8	-0.05
LQR6TX	X	2,546.0	1,841.5	31.09	2,497.9	1,769.5	28.74
LQUXPK		603.7	-100.8	-1.70	702.3	-26.0	-0.42
LTYMP9		596.0	-108.5	-1.83	644.0	-84.3	-1.37
LUBHAF		649.4	-55.1	-0.93	690.5	-37.9	-0.62
LURGNX	X	917.8	213.2	3.60	917.7	189.3	3.07
LYZYL7		699.0	-5.5	-0.09	797.0	68.7	1.12
LZVHM8		623.6	-80.9	-1.37	672.7	-55.6	-0.90
MA3HZE		665.0	-39.5	-0.67	654.0	-74.3	-1.21
MAF7YK		789.0	84.5	1.43	784.5	56.2	0.91
MTCEF6		752.0	47.5	0.80	758.5	30.2	0.49
PGTY3F		681.0	-23.6	-0.40	681.0	-47.4	-0.77
PHNKW8	*	759.5	55.0	0.93	693.0	-35.3	-0.57
PZA27V		653.0	-51.5	-0.87	688.5	-39.8	-0.65
QCDQDV		680.5	-24.0	-0.41	675.0	-53.3	-0.87
R3GDQ2		734.4	29.9	0.50	723.4	-5.0	-0.08
REGY4R		739.7	35.2	0.59	810.8	82.4	1.34
RJAXHM		643.0	-61.5	-1.04	684.0	-44.3	-0.72
RUC9Z6		696.2	-8.3	-0.14	721.8	-6.5	-0.11

WebCode	Data Flag	Sample C11-C12 Lab Mean	Diff from Grand Mean	CPV	Sample C13-C14 Lab Mean	Diff from Grand Mean	CPV
RYKTN3		776.0	71.5	1.21	805.5	77.2	1.25
U2LERT		712.6	8.1	0.14	731.5	3.2	0.05
U66JAN		659.2	-45.3	-0.77	664.3	-64.1	-1.04
UADUFW		785.5	81.0	1.37	785.1	56.7	0.92
UM4L22		693.4	-11.1	-0.19	758.6	30.3	0.49
UPA3KQ		840.2	135.7	2.29	855.1	126.8	2.06
VH8EZ4		755.4	50.9	0.86	775.5	47.1	0.77
WE32ZG	X	977.5	273.0	4.61	1,029.5	301.2	4.89
WVNMHM		662.5	-42.0	-0.71	739.0	10.7	0.17
WXWJ8X		754.5	50.0	0.84	825.0	96.7	1.57
XFAM3N		632.0	-72.5	-1.22	695.0	-33.3	-0.54
YC6ED4		651.7	-52.9	-0.89	635.0	-93.4	-1.52
YMPLA8		678.5	-26.0	-0.44	673.0	-55.3	-0.90
YUNDGG		756.5	52.0	0.88	783.5	55.2	0.90
YVLJYV	*	683.9	-20.7	-0.35	813.7	85.3	1.39
YWWKLU		674.0	-30.5	-0.52	743.0	14.7	0.24
ZF4ACW		716.0	11.5	0.19	803.5	75.2	1.22
ZGWYZK		663.6	-41.0	-0.69	702.0	-26.3	-0.43
ZNF39M		572.0	-132.5	-2.24	592.5	-135.8	-2.21
ZPMQZX		652.0	-52.6	-0.89	655.6	-72.8	-1.18

Summary Statistics

	Sample C11-C12	Sample C13-C14
Grand Means	704.52 psi	728.34 psi
Stnd Dev Btwn Labs	59.23 psi	61.58 psi

Statistics based on 87 of 95 reporting participants

Summary Statistics in SI Units

	Sample C11-C12	Sample C13-C14
Grand Means	4.8575 MPa	5.02 MPa
Stnd Dev Btwn Labs	0.4084 MPa	0.42 MPa

Statistics based on 87 of 95 reporting participants

Samples C11-C12: Polyisoprene compound, batch #1 & C13-C14: Polyisoprene compound, batch #2

Comments on Assigned Data Flags for Test #607

24LXUT (X) - Data for all samples are low. Possible Systematic Error.

3WJZN2 (X) - Data for all samples are high. Possible Systematic Error. Inconsistent within the determinations of sample group C11-C12.

8PQJZR (X) - Inconsistency in testing between samples, data for sample group C13-C14 are high. Inconsistent within the determinations of sample group C13-C14.

AAJCVL (X) - Data for all samples are low. Possible Systematic Error. Inconsistent within the determinations of sample group C13-C14.

JXF9LB (X) - Data for all samples are low. Possible Systematic Error.

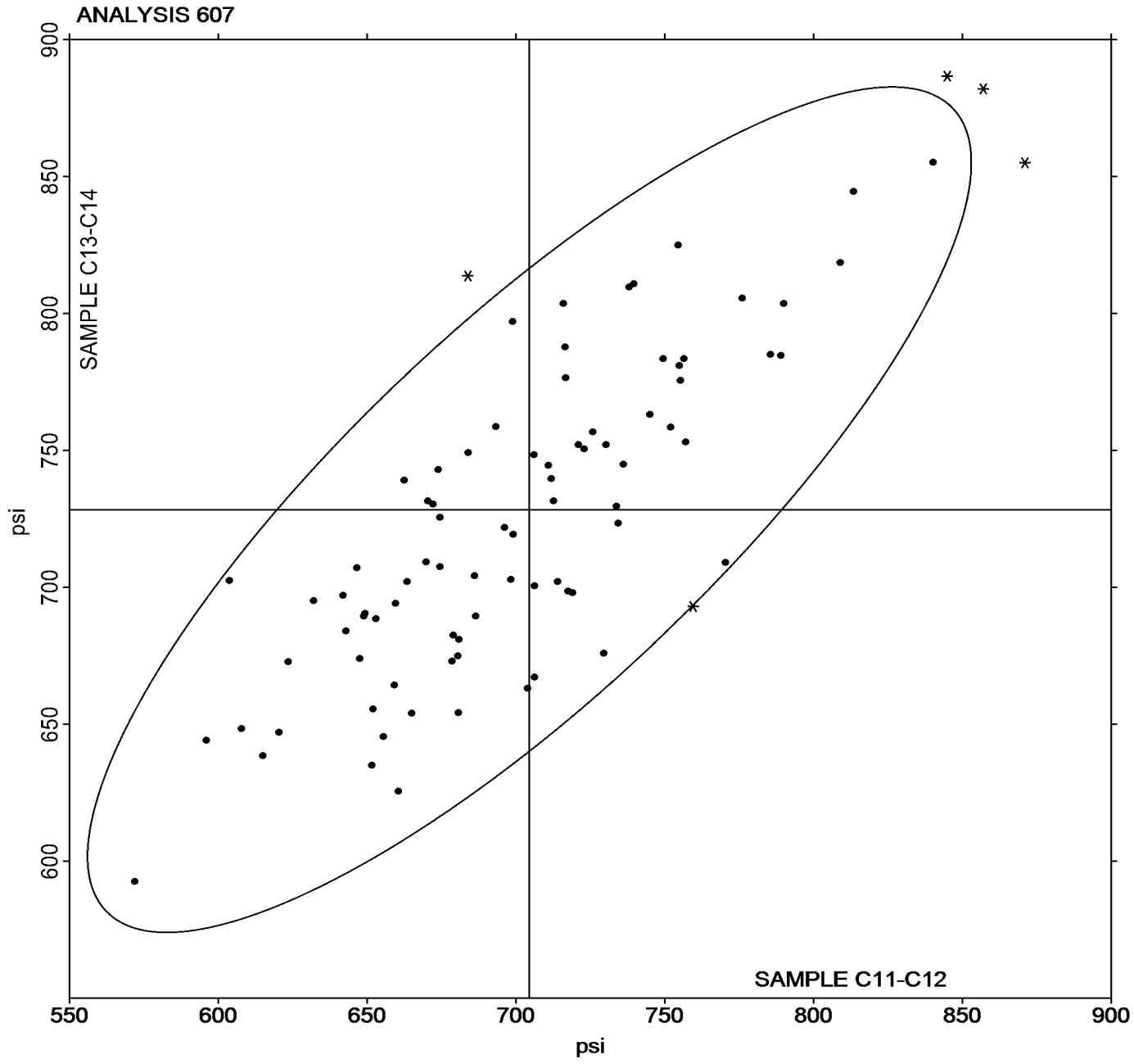
LQR6TX (X) - Extreme Data.

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

WE32ZG (X) - Data for all samples are high. Possible Systematic Error.

Grand Mean Sample **C11-C12** = 704.52 psi

Grand Mean Sample **C13-C14** = 728.34 psi



WebCode	Data Flag	Sample C11-C12 Lab Mean	Diff from Grand Mean	CPV	Sample C13-C14 Lab Mean	Diff from Grand Mean	CPV
23TYJ2		152.3	-11.6	-1.01	166.1	-2.8	-0.24
23VT2L		174.8	10.9	0.95	168.2	-0.6	-0.05
24LXUT	X	111.7	-52.2	-4.55	118.9	-49.9	-4.23
27TBF2		162.6	-1.2	-0.11	159.1	-9.8	-0.83
2FKJ7J		156.5	-7.4	-0.64	155.0	-13.9	-1.17
2X3K2L		157.0	-6.9	-0.60	157.5	-11.4	-0.96
3NRMN2		137.9	-26.0	-2.26	147.5	-21.4	-1.81
3WJZN2	X	248.7	84.9	7.39	221.2	52.3	4.43
469B9G		159.5	-4.4	-0.38	169.0	0.1	0.01
4A3693		161.8	-2.1	-0.18	179.8	10.9	0.92
4BZHRP		149.7	-14.2	-1.24	159.5	-9.4	-0.79
4EUEEV		179.0	15.1	1.32	182.0	13.1	1.11
4JQ4XM		177.0	13.1	1.14	183.0	14.1	1.20
4UC3RY		168.1	4.2	0.37	168.0	-0.8	-0.07
6KGJQV		164.5	0.6	0.05	161.0	-7.9	-0.67
6VFJ2E		162.9	-1.0	-0.09	173.6	4.7	0.40
7FKEBW		140.3	-23.6	-2.05	151.7	-17.2	-1.46
7GDDKN		158.1	-5.8	-0.50	163.9	-5.0	-0.42
7L838M		169.0	5.1	0.45	182.5	13.6	1.16
7Q4V2H		160.0	-3.9	-0.34	160.0	-8.9	-0.75
7R2WBG		149.0	-14.9	-1.30	153.5	-15.4	-1.30
7XJFKH		164.3	0.4	0.03	179.6	10.7	0.91
7XL32V		159.5	-4.4	-0.39	155.5	-13.4	-1.14
8PQJZR	X	174.5	10.6	0.92	331.7	162.8	13.80
8XHYPW		160.1	-3.8	-0.33	169.6	0.8	0.06
9QDKEE	X	187.0	23.1	2.01	216.5	47.6	4.03
A34TFT		184.2	20.3	1.76	190.9	22.0	1.87
AAJCVL	X	123.6	-40.2	-3.50	131.3	-37.6	-3.19
AG3DGQ		165.0	1.1	0.10	156.5	-12.4	-1.05
AHH2DB		178.0	14.1	1.23	187.0	18.1	1.54
AKLMCA		158.1	-5.8	-0.50	158.8	-10.0	-0.85
ATZDUU		165.5	1.6	0.14	164.0	-4.9	-0.41
BM3GH9		156.0	-7.9	-0.69	162.5	-6.4	-0.54
CJNURB		175.5	11.6	1.01	176.0	7.1	0.60
CLTUJU		168.5	4.6	0.40	170.0	1.1	0.10
CM74UF	X	207.0	43.1	3.75	202.0	33.1	2.81
DFEDMB	X	215.0	51.1	4.45	208.5	39.6	3.36

WebCode	Data Flag	Sample C11-C12 Lab Mean	Sample C11-C12 Diff from Grand Mean	Sample C11-C12 CPV	Sample C13-C14 Lab Mean	Sample C13-C14 Diff from Grand Mean	Sample C13-C14 CPV
DP6YTA		158.8	-5.1	-0.44	159.5	-9.3	-0.79
DQJGXZ		175.5	11.6	1.01	182.5	13.6	1.16
E2D4GG		160.3	-3.6	-0.32	164.6	-4.2	-0.36
E43HUX		157.6	-6.3	-0.55	151.0	-17.9	-1.51
E8KRUH		155.7	-8.1	-0.71	161.8	-7.1	-0.60
EQWEHC		175.5	11.6	1.01	186.1	17.2	1.46
FCD2Q3		179.0	15.1	1.32	181.0	12.1	1.03
FGLCWB		166.8	2.9	0.25	163.2	-5.7	-0.48
FWKCV7		159.0	-4.9	-0.43	167.5	-1.4	-0.12
GBVEMD		174.0	10.1	0.88	183.0	14.1	1.20
GJA4LL		155.0	-8.9	-0.77	158.0	-10.9	-0.92
GKFTMA		161.0	-2.9	-0.25	177.0	8.1	0.69
GUTKC8		164.3	0.4	0.03	169.0	0.1	0.01
H2KD3D		172.5	8.6	0.75	177.0	8.1	0.69
JACG4D		166.8	2.9	0.25	163.2	-5.7	-0.48
JAWVWW		157.7	-6.2	-0.54	157.7	-11.1	-0.94
JXF9LB	X	116.0	-47.9	-4.17	117.5	-51.4	-4.35
KCXFYM		170.4	6.5	0.57	168.2	-0.6	-0.05
KXYA8D		162.5	-1.4	-0.12	168.0	-0.9	-0.07
LJBRRE		166.0	2.1	0.18	174.0	5.1	0.44
LQR6TX	X	356.3	192.4	16.76	340.6	171.7	14.55
LQUXPK		147.1	-16.8	-1.46	167.4	-1.5	-0.13
LTYMP9		156.0	-7.9	-0.69	161.0	-7.9	-0.67
LUBHAF		159.3	-4.6	-0.40	171.0	2.1	0.18
LURGNX	X	206.3	42.4	3.69	204.4	35.6	3.01
LYZYL7	X	171.0	7.1	0.62	204.0	35.1	2.98
LZVHM8		150.3	-13.6	-1.19	160.0	-8.9	-0.75
M4EYFC		149.5	-14.4	-1.25	159.7	-9.2	-0.78
MA3HZE		160.0	-3.9	-0.34	164.5	-4.4	-0.37
MAF7YK		181.3	17.4	1.52	171.9	3.0	0.25
MTCEF6		173.5	9.6	0.84	172.5	3.6	0.31
PGTY3F		155.9	-8.0	-0.69	159.5	-9.3	-0.79
PHNKW8	*	172.5	8.6	0.75	158.5	-10.4	-0.88
PZA27V		153.5	-10.4	-0.90	163.0	-5.9	-0.50
QCDQDV		165.0	1.1	0.10	164.5	-4.4	-0.37
R3GDQ2		174.3	10.5	0.91	168.1	-0.8	-0.06
REGY4R		168.2	4.4	0.38	182.0	13.2	1.11
RJAXHM		154.0	-9.9	-0.86	165.0	-3.9	-0.33

WebCode	Data Flag	Sample C11-C12 Lab Mean	Diff from Grand Mean	CPV	Sample C13-C14 Lab Mean	Diff from Grand Mean	CPV
RUC9Z6		164.3	0.4	0.03	167.1	-1.7	-0.15
RYKTN3		182.0	18.1	1.58	183.5	14.6	1.24
U2LERT		154.5	-9.4	-0.82	156.3	-12.6	-1.07
U66JAN		189.3	25.4	2.21	191.5	22.6	1.91
UADUFW		184.7	20.8	1.81	186.4	17.5	1.48
UM4L22		155.3	-8.6	-0.75	176.6	7.7	0.65
UPA3KQ		170.4	6.5	0.56	175.3	6.4	0.55
VH8EZ4		180.7	16.8	1.46	176.9	8.0	0.68
WE32ZG	*	196.5	32.6	2.84	201.5	32.6	2.77
WPKM26		152.5	-11.4	-0.99	154.5	-14.4	-1.22
WVNMHM		161.5	-2.4	-0.21	169.0	0.1	0.01
WXWJ8X	*	182.5	18.6	1.62	198.5	29.6	2.51
XFAM3N		176.0	12.1	1.05	191.0	22.1	1.88
YC6ED4		148.5	-15.4	-1.34	147.2	-21.7	-1.84
YMPLA8		173.5	9.6	0.84	179.0	10.1	0.86
YUNDGG		169.5	5.6	0.49	177.0	8.1	0.69
YVLJYV	X	142.9	-21.0	-1.83	174.8	5.9	0.50
YWWKLU		151.5	-12.4	-1.08	168.0	-0.9	-0.07
ZF4ACW		154.0	-9.9	-0.86	174.5	5.6	0.48
ZGWYZK		155.9	-8.0	-0.69	160.3	-8.6	-0.73
ZNF39M		138.5	-25.4	-2.21	144.5	-24.4	-2.06
ZPMQZX		155.9	-8.0	-0.69	163.2	-5.7	-0.48

Summary Statistics

	Sample C11-C12	Sample C13-C14
Grand Means	163.89 psi	168.87 psi
Stnd Dev Btwn Labs	11.48 psi	11.80 psi

Statistics based on 85 of 97 reporting participants

Summary Statistics in SI Units

	Sample C11-C12	Sample C13-C14
Grand Means	1.1300 MPa	1.16 MPa
Stnd Dev Btwn Labs	0.0792 MPa	0.08 MPa

Statistics based on 85 of 97 reporting participants

Samples C11-C12: Polyisoprene compound, batch #1 & C13-C14: Polyisoprene compound, batch #2

Comments on Assigned Data Flags for Test #608

24LXUT (X) - Data for all samples are low. Possible Systematic Error.

3WJZN2 (X) - Data for all samples are high. Possible Systematic Error. Inconsistent within the determinations of sample group C11-C12.

8PQJZR (X) - Inconsistency in testing between samples, data for sample group C13-C14 are high. Inconsistent within the determinations of sample C13.

9QDKEE (X) - IInconsistency in testing between samples, data for sample group C13-C14 are high. Inconsistent within the determinations of both sample groups.

AAJCVL (X) - Data for all samples are low. Possible Systematic Error. Inconsistent within the determinations of sample group C13-C14.

CM74UF (X) - Data for all samples are high. Possible Systematic Error. Inconsistent within the determinations of sample group C13-C14.

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

JXF9LB (X) - Data for all samples are low. Possible Systematic Error.

LQR6TX (X) - Data for all samples are high.

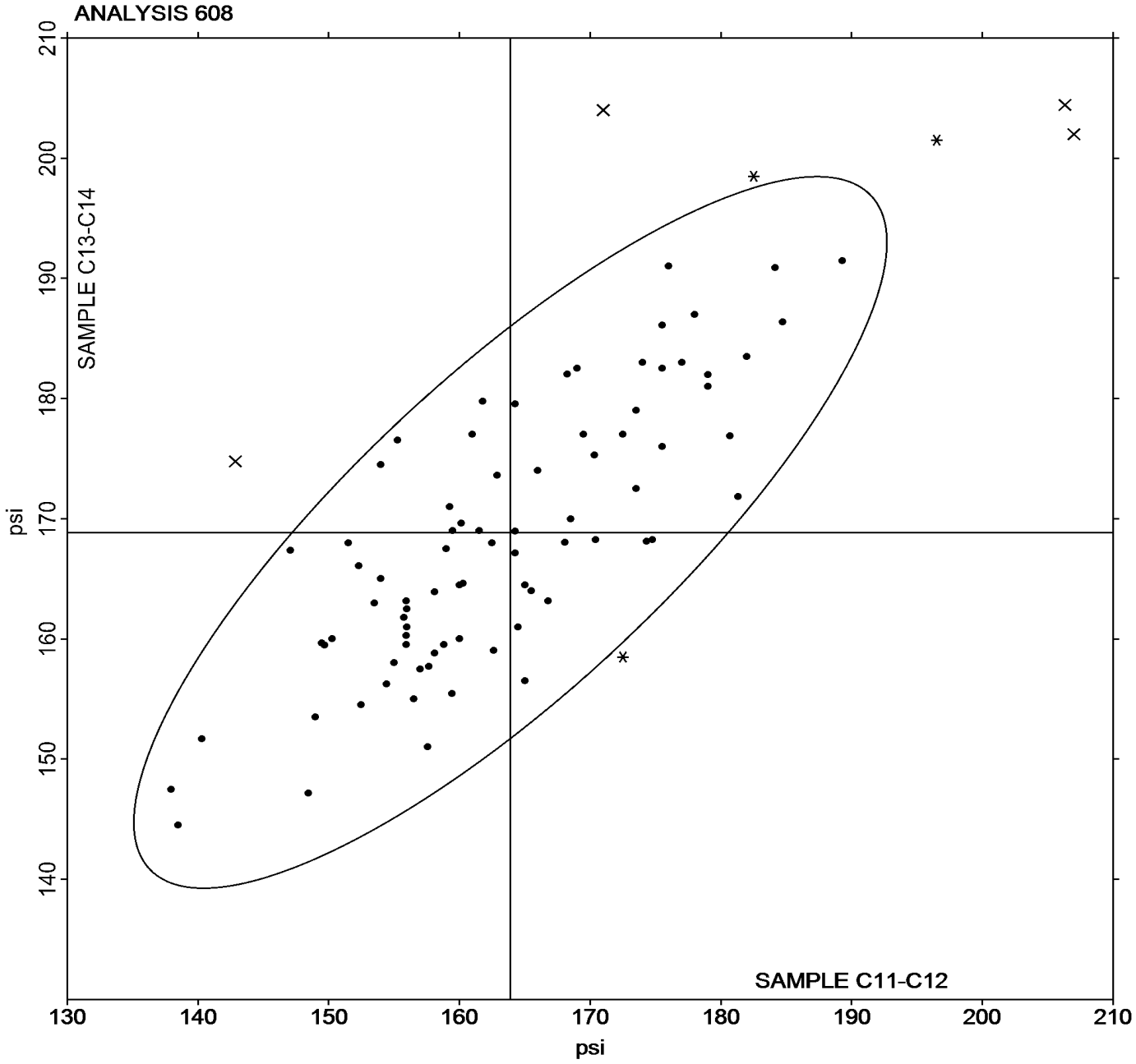
LURGNX (X) - Data for all samples are high. Possible Systematic Error.

LYZYL7 (X) - Inconsistency in testing between samples, data for sample group C13-C14 are high.

YVLJYV (X) - Inconsistent in testing between samples.

Grand Mean Sample **C11-C12** = 163.89 psi

Grand Mean Sample **C13-C14** = 168.87 psi



WebCode	Data Flag	Sample C11-C12 Lab Mean	Diff from Grand Mean	CPV	Sample C13-C14 Lab Mean	Diff from Grand Mean	CPV	Instr Code
22FKXC	*	41.50	-4.60	-2.55	44.00	-2.64	-1.54	BT
23TYJ2		45.70	-0.40	-0.22	47.15	0.51	0.30	BT
23VT2L		44.50	-1.60	-0.89	44.50	-2.14	-1.25	BT
24LXUT		48.00	1.90	1.06	48.70	2.06	1.20	BT
27TBF2		49.50	3.40	1.89	49.00	2.36	1.38	BT
2FKJ7J		46.50	0.40	0.22	48.00	1.36	0.79	HH
2X3K2L		45.40	-0.70	-0.39	47.10	0.46	0.27	BT
3JU4KH		44.60	-1.50	-0.83	44.05	-2.59	-1.51	BT
3NRMN2		45.00	-1.10	-0.61	45.50	-1.14	-0.67	BT
3WJZN2		45.10	-1.00	-0.55	45.15	-1.49	-0.87	BT
469B9G		45.50	-0.60	-0.33	46.00	-0.64	-0.37	BT
4A3693	*	46.00	-0.10	-0.05	48.50	1.86	1.09	HH
4BZHRP		43.70	-2.40	-1.33	44.15	-2.49	-1.46	BT
4EUEEV		46.95	0.85	0.47	47.55	0.91	0.53	BT
4JQ4XM		47.00	0.90	0.50	48.00	1.36	0.79	BT
4UC3RY		45.75	-0.35	-0.19	45.70	-0.94	-0.55	BT
6GH9VV		43.00	-3.10	-1.72	43.50	-3.14	-1.83	XX
6KGJQV		46.95	0.85	0.47	46.75	0.11	0.06	BT
6VFJ2E		46.00	-0.10	-0.05	45.50	-1.14	-0.67	BT
6VGCX2		42.00	-4.10	-2.28	43.50	-3.14	-1.83	BT
7FKEBW		44.00	-2.10	-1.17	45.50	-1.14	-0.67	BT
7GDDKN		47.00	0.90	0.50	46.50	-0.14	-0.08	HH
7L838M		47.60	1.50	0.84	48.40	1.76	1.03	BT
7Q4V2H		45.70	-0.40	-0.22	45.80	-0.84	-0.49	BT
7R2WBG		47.30	1.20	0.67	48.20	1.56	0.91	BT
7XJFKH		46.10	0.00	0.00	46.25	-0.39	-0.23	BT
7XL32V		45.70	-0.40	-0.22	46.10	-0.54	-0.32	BT
8PQJZR	*	41.30	-4.80	-2.67	42.55	-4.09	-2.39	BT
8XHYPW		45.00	-1.10	-0.61	45.00	-1.64	-0.96	BT
9QDKEE		47.50	1.40	0.78	48.00	1.36	0.79	BT
AAJCVL		45.50	-0.60	-0.33	45.00	-1.64	-0.96	HH
AG3DGQ		47.50	1.40	0.78	48.50	1.86	1.09	HH
AHH2DB		46.50	0.40	0.22	48.00	1.36	0.79	BT
AKLMCA		47.75	1.65	0.92	48.15	1.51	0.88	BT
ATZDUU		49.00	2.90	1.61	49.50	2.86	1.67	BT
BM3GH9		47.50	1.40	0.78	48.00	1.36	0.79	HH
CJNURB		45.85	-0.25	-0.14	46.70	0.06	0.03	BT
CLTUJU		47.00	0.90	0.50	47.00	0.36	0.21	HH

WebCode	Data Flag	Sample C11-C12 Lab Mean	Sample C11-C12 Diff from Grand Mean	Sample C11-C12 CPV	Sample C13-C14 Lab Mean	Sample C13-C14 Diff from Grand Mean	Sample C13-C14 CPV	Instr Code
CM74UF		46.00	-0.10	-0.05	47.00	0.36	0.21	HH
DFEDMB		47.50	1.40	0.78	47.50	0.86	0.50	HH
DP6YTA		45.70	-0.40	-0.22	44.95	-1.69	-0.99	BT
DQJGXZ		49.00	2.90	1.61	50.00	3.36	1.96	BT
E2D4GG		47.00	0.90	0.50	47.50	0.86	0.50	HH
E43HUX		48.25	2.15	1.20	48.00	1.36	0.79	HH
E8KRUH	X	40.50	-5.60	-3.11	41.00	-5.64	-3.29	BT
E9CLWT		48.00	1.90	1.06	47.50	0.86	0.50	BT
EQWEHC		43.00	-3.10	-1.72	44.50	-2.14	-1.25	BT
FCD2Q3		50.50	4.40	2.45	50.50	3.86	2.25	HH
FGLCWB		46.00	-0.10	-0.05	46.00	-0.64	-0.37	HH
FWKCV7		46.25	0.15	0.09	46.45	-0.19	-0.11	BT
GBVEMD		46.00	-0.10	-0.05	47.00	0.36	0.21	BT
GJA4LL		44.60	-1.50	-0.83	46.00	-0.64	-0.37	BT
GKFTMA		48.75	2.65	1.48	49.75	3.11	1.82	XX
GUTKC8		44.75	-1.35	-0.75	46.20	-0.44	-0.26	BT
JACG4D		45.55	-0.55	-0.30	45.70	-0.94	-0.55	BT
JAWVWW		45.00	-1.10	-0.61	44.25	-2.39	-1.40	HH
JXF9LB		45.50	-0.60	-0.33	45.50	-1.14	-0.67	BT
KCXFYM		44.75	-1.35	-0.75	45.70	-0.94	-0.55	BT
KN67ZA		48.85	2.75	1.53	48.90	2.26	1.32	XX
KXYA8D		44.50	-1.60	-0.89	45.00	-1.64	-0.96	BT
LJBRRE		47.50	1.40	0.78	48.50	1.86	1.09	BT
LQR6TX		47.00	0.90	0.50	47.00	0.36	0.21	BT
LQUXPK		44.90	-1.20	-0.66	44.95	-1.69	-0.99	BT
LTYMP9		44.50	-1.60	-0.89	44.50	-2.14	-1.25	BT
LUBHAF		44.05	-2.05	-1.14	45.30	-1.34	-0.78	BT
LURGNX		47.00	0.90	0.50	46.50	-0.14	-0.08	BT
LYZYL7		48.00	1.90	1.06	48.00	1.36	0.79	HH
LZVHM8		46.30	0.20	0.11	48.50	1.86	1.09	XX
M4EYFC		43.00	-3.10	-1.72	43.85	-2.79	-1.63	BT
MA3HZE		43.40	-2.70	-1.50	44.05	-2.59	-1.51	BT
MAF7YK		45.00	-1.10	-0.61	44.00	-2.64	-1.54	BT
MTCEF6		47.25	1.15	0.64	49.00	2.36	1.38	HH
NGW486		45.00	-1.10	-0.61	46.00	-0.64	-0.37	BT
P2XNAH		45.20	-0.90	-0.50	45.60	-1.04	-0.61	BT
PGTY3F		47.60	1.50	0.84	48.10	1.46	0.85	BT

WebCode	Data Flag	Sample C11-C12 Lab Mean	Sample C11-C12 Diff from Grand Mean	Sample C11-C12 CPV	Sample C13-C14 Lab Mean	Sample C13-C14 Diff from Grand Mean	Sample C13-C14 CPV	Instr Code
PHNKW8		45.50	-0.60	-0.33	45.00	-1.64	-0.96	BT
PZA27V		48.00	1.90	1.06	48.00	1.36	0.79	HH
Q3M8W2		42.50	-3.60	-2.00	43.50	-3.14	-1.83	BT
QCDQDV		46.50	0.40	0.22	45.50	-1.14	-0.67	BT
QJWUN4		46.00	-0.10	-0.05	47.00	0.36	0.21	BT
R3GDQ2		47.10	1.00	0.56	47.10	0.46	0.27	BT
REGY4R	*	45.45	-0.65	-0.36	48.10	1.46	0.85	BT
RJAXHM		47.00	0.90	0.50	47.00	0.36	0.21	BT
RUC9Z6		45.00	-1.10	-0.61	45.50	-1.14	-0.67	BT
RYKTN3		45.50	-0.60	-0.33	45.25	-1.39	-0.81	BT
U2LERT		49.30	3.20	1.78	49.50	2.86	1.67	BT
U4D8T4		46.00	-0.10	-0.05	47.00	0.36	0.21	HH
U66JAN	X	54.00	7.90	4.39	54.00	7.36	4.30	HH
UADUFW		49.50	3.40	1.89	49.50	2.86	1.67	HH
UM4L22		44.50	-1.60	-0.89	46.50	-0.14	-0.08	BT
UPA3KQ		50.00	3.90	2.17	50.50	3.86	2.25	HH
VH8EZ4		47.05	0.95	0.53	47.90	1.26	0.73	BT
VQJDRU		47.00	0.90	0.50	46.50	-0.14	-0.08	HH
WE32ZG		48.00	1.90	1.06	48.00	1.36	0.79	HH
WPKM26		45.20	-0.90	-0.50	45.30	-1.34	-0.78	BT
WVNMHM		44.96	-1.14	-0.63	45.74	-0.90	-0.53	BT
WXWJ8X		49.50	3.40	1.89	49.00	2.36	1.38	BT
XFAM3N		46.00	-0.10	-0.05	46.00	-0.64	-0.37	BT
Y328UX		43.95	-2.15	-1.19	44.90	-1.74	-1.02	XX
YC6ED4		47.35	1.25	0.70	47.65	1.01	0.59	BT
YMPLA8		45.00	-1.10	-0.61	45.50	-1.14	-0.67	HH
YUNDGG		46.85	0.75	0.42	47.85	1.21	0.71	HH
YVLJYV		46.90	0.80	0.45	47.55	0.91	0.53	BT
YWWKLU	*	43.50	-2.60	-1.44	46.00	-0.64	-0.37	BT
ZF4ACW		46.00	-0.10	-0.05	48.00	1.36	0.79	BT
ZGWYZK		45.00	-1.10	-0.61	46.00	-0.64	-0.37	BT
ZNF39M		46.50	0.40	0.22	47.00	0.36	0.21	BT
ZPMQZX		46.00	-0.10	-0.05	47.00	0.36	0.21	BT

Summary Statistics

Grand Means	46.096 Type A	46.642 Type A
Stnd Dev Btwn Labs	1.799 Type A	1.712 Type A

Statistics based on 106 of 108 reporting participants

Samples C11-C12: Polyisoprene compound, batch #1 & C13-C14: Polyisoprene compound, batch #2

Comments on Assigned Data Flags for Test #620

E8KRUH (X) - Data for all samples are low. Possible Systematic Error.

U66JAN (X) - Data for all samples are high. Possible Systematic Error.

Key to Instrument Codes Reported by Participants

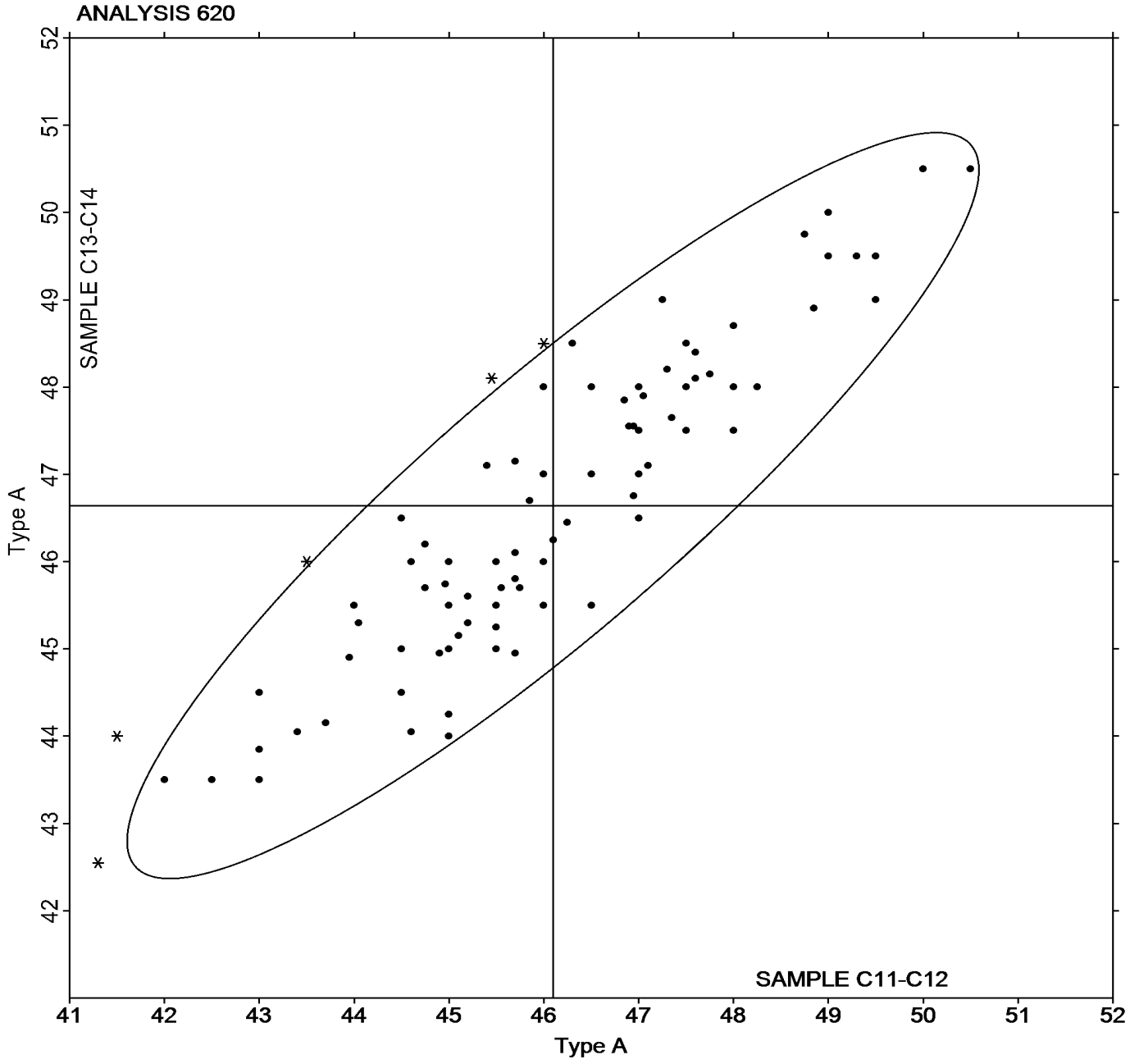
BT	Benchtop	HH	Handheld
XX	Specify Benchtop or Handheld Instrument		

Results by Reading Time (as reported by laboratory)

	Sample C11-C12 *Polyisoprene compound, batch #1*			Sample C13-C14 *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
Select from list below	46.35	3.39	0.25	47.33	3.43	0.68	2	2
Readings taken within 0 - 5 seconds	46.43	1.52	0.33	46.91	1.54	0.27	70	74
Readings taken at 5 seconds	44.33	1.11	-1.77	44.87	0.88	-1.77	10	11
Readings taken after 5+ seconds	44.60	1.82	-1.50	45.20	1.75	-1.44	5	6
Maximum hardness indicator used	47.10	1.48	1.01	47.28	1.55	0.64	14	15

Grand Mean Sample **C11-C12** = 46.096 Type A

Grand Mean Sample **C13-C14** = 46.642 Type A



WebCode	Data Flag	Sample C11-C12 Lab Mean	Sample C11-C12 Diff from Grand Mean	Sample C11-C12 CPV	Sample C13-C14 Lab Mean	Sample C13-C14 Diff from Grand Mean	Sample C13-C14 CPV
22FKXC		1.137	0.003	0.75	1.134	0.001	0.14
23VT2L		1.134	0.000	0.09	1.131	-0.002	-0.45
24LXUT		1.133	-0.001	-0.19	1.133	0.000	-0.09
27TBF2	*	1.135	0.002	0.41	1.130	-0.004	-0.88
2FKJ7J		1.132	-0.001	-0.30	1.131	-0.002	-0.55
2X3K2L		1.138	0.005	1.13	1.139	0.006	1.29
3JU4KH		1.128	-0.006	-1.35	1.126	-0.007	-1.70
3NRMN2		1.132	-0.001	-0.29	1.131	-0.002	-0.55
3WJZN2	X	1.117	-0.017	-3.92	1.121	-0.012	-2.85
469B9G	*	1.145	0.012	2.73	1.147	0.014	3.14
4A3693		1.124	-0.009	-2.17	1.126	-0.008	-1.81
4BZHRP	*	1.121	-0.013	-2.98	1.122	-0.011	-2.62
4EUEEV		1.135	0.002	0.43	1.134	0.001	0.17
4JQ4XM		1.132	-0.001	-0.24	1.130	-0.003	-0.79
4UC3RY		1.137	0.003	0.75	1.132	-0.002	-0.43
6KGJQV		1.136	0.003	0.61	1.135	0.002	0.45
7FKEBW		1.130	-0.004	-0.89	1.133	-0.001	-0.20
7GDDKN		1.132	-0.001	-0.30	1.131	-0.002	-0.55
7L838M		1.133	0.000	-0.07	1.133	-0.001	-0.20
7Q4V2H		1.139	0.005	1.21	1.139	0.006	1.29
7R2WBG		1.126	-0.007	-1.70	1.126	-0.007	-1.70
7XL32V		1.139	0.005	1.26	1.139	0.006	1.29
8XHYPW		1.138	0.004	1.03	1.139	0.005	1.25
9QDKEE		1.131	-0.002	-0.49	1.132	-0.002	-0.42
A34TFT		1.140	0.007	1.55	1.139	0.006	1.32
AG3DGQ		1.134	0.001	0.25	1.135	0.002	0.37
AHH2DB		1.135	0.002	0.44	1.136	0.003	0.59
AKLMCA		1.133	-0.001	-0.19	1.134	0.001	0.14
ATZDUU		1.134	0.000	0.05	1.135	0.002	0.37
BM3GH9		1.128	-0.005	-1.14	1.126	-0.008	-1.78
CJNURB		1.132	-0.001	-0.31	1.133	0.000	-0.05
CLTUJU		1.134	0.000	0.05	1.131	-0.002	-0.55
CM74UF		1.129	-0.004	-1.02	1.132	-0.002	-0.40
DFEDMB		1.135	0.002	0.44	1.135	0.001	0.32
DP6YTA		1.133	0.000	-0.07	1.133	-0.001	-0.20
DQJGXZ		1.136	0.002	0.51	1.136	0.003	0.60
E2D4GG		1.133	0.000	-0.07	1.133	0.000	-0.09

WebCode	Data Flag	Sample C11-C12 Lab Mean	Diff from Grand Mean	CPV	Sample C13-C14 Lab Mean	Diff from Grand Mean	CPV
E8KRUH		1.127	-0.007	-1.58	1.124	-0.010	-2.27
EQWEHC		1.135	0.002	0.40	1.135	0.001	0.27
FCD2Q3		1.135	0.002	0.43	1.135	0.002	0.48
GBVEMD		1.130	-0.003	-0.77	1.132	-0.002	-0.43
GJA4LL		1.132	-0.001	-0.34	1.132	-0.002	-0.40
GKFTMA		1.132	-0.001	-0.30	1.135	0.001	0.26
GUTKC8		1.134	0.001	0.25	1.135	0.002	0.44
H2KD3D		1.134	0.000	0.05	1.135	0.001	0.26
JXF9LB	X	1.076	-0.057	-13.36	1.129	-0.005	-1.12
KCXFYM	*	1.125	-0.008	-1.93	1.130	-0.003	-0.78
KN67ZA	X	1.108	-0.026	-6.02	1.107	-0.027	-6.18
KXYA8D		1.136	0.003	0.65	1.131	-0.002	-0.49
LJBRRE		1.131	-0.003	-0.65	1.135	0.001	0.26
LQR6TX		1.137	0.003	0.75	1.137	0.003	0.72
LQUXPK		1.132	-0.002	-0.38	1.132	-0.001	-0.29
LTYMP9	*	1.124	-0.009	-2.21	1.129	-0.004	-0.96
LYZYL7		1.127	-0.007	-1.53	1.131	-0.003	-0.62
M4EYFC	X	1.124	-0.009	-2.17	1.131	-0.003	-0.66
MTCEF6		1.132	-0.001	-0.30	1.136	0.002	0.49
NGW486		1.132	-0.001	-0.30	1.131	-0.003	-0.66
P2XNAH	X	1.166	0.032	7.51	1.172	0.038	8.77
PZA27V		1.139	0.005	1.21	1.139	0.005	1.18
QJWUN4		1.131	-0.002	-0.54	1.130	-0.004	-0.89
R3GDQ2		1.134	0.000	0.05	1.135	0.002	0.37
REGY4R		1.132	-0.001	-0.30	1.133	-0.001	-0.20
RJAXHM		1.134	0.000	0.05	1.132	-0.001	-0.32
RUC9Z6		1.133	0.000	-0.02	1.134	0.000	0.03
RYKTN3		1.133	-0.001	-0.19	1.134	0.000	0.03
U2LERT		1.137	0.003	0.76	1.137	0.003	0.79
UADUFW		1.141	0.008	1.89	1.142	0.009	2.00
UPA3KQ	X	1.128	-0.006	-1.30	1.121	-0.012	-2.76
VH8EZ4		1.131	-0.002	-0.44	1.132	-0.002	-0.41
VQJDRU		1.136	0.002	0.51	1.136	0.002	0.49
WE32ZG		1.140	0.006	1.45	1.139	0.006	1.33
WPKM26		1.138	0.005	1.10	1.139	0.006	1.29
WXWJ8X		1.136	0.002	0.54	1.136	0.002	0.56
XFAM3N		1.136	0.002	0.54	1.137	0.004	0.87
YC6ED4		1.135	0.002	0.42	1.131	-0.002	-0.45

WebCode	Data Flag	Sample C11-C12 Lab Mean	Diff from Grand Mean	CPV	Sample C13-C14 Lab Mean	Diff from Grand Mean	CPV
YMPLA8		1.131	-0.002	-0.44	1.132	-0.001	-0.28
YUNDGG		1.129	-0.004	-0.91	1.128	-0.005	-1.17
ZF4ACW		1.130	-0.003	-0.69	1.127	-0.006	-1.48
ZNF39M		1.141	0.008	1.87	1.142	0.009	2.03
ZPMQZX		1.138	0.004	0.98	1.139	0.005	1.18

Summary Statistics

Grand Means	1.1333 g/cm^3 (Mg/m^3)	1.1334 g/cm^3 (Mg/m^3)
Stnd Dev Btwn Labs	0.0043 g/cm^3 (Mg/m^3)	0.0043 g/cm^3 (Mg/m^3)

Statistics based on 74 of 80 reporting participants

Samples C11-C12: Polyisoprene compound, batch #1 & C13-C14: Polyisoprene compound, batch #2

Comments on Assigned Data Flags for Test #621

3WJZN2 (X) - Data for all samples are low. Possible Systematic Error. Inconsistent within the determinations of sample group C11-C12.

JXF9LB (X) - Inconsistency in testing between samples, high data for sample group C11-C12.

KN67ZA (X) - Data for all samples are low. Possible Systematic Error.

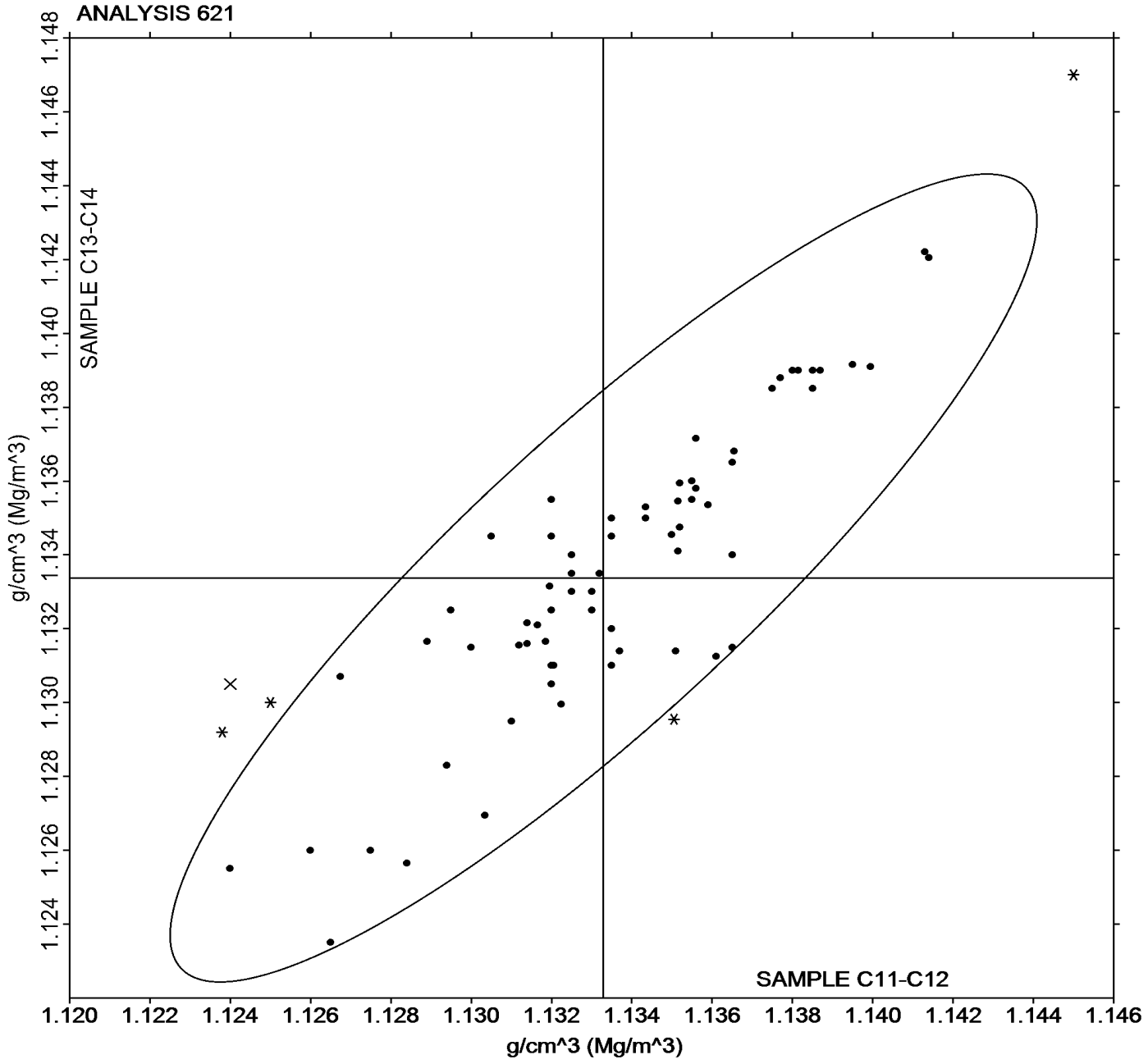
M4EYFC (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample group C13-C14.

P2XNAH (X) - Data for all samples are high. Possible Systematic Error.

UPA3KQ (X) - Inconsistency in testing between samples, data for sample group C13-C14 are low.

Grand Mean Sample **C11-C12** = 1.1333 g/cm ^ 3 (Mg/m ^ 3)

Grand Mean Sample **C13-C14** = 1.1334 g/cm ^ 3 (Mg/m ^ 3)



WebCode	Data Flag	Sample HC11-HC12 Lab Mean	Diff from Grand Mean	CPV	Sample HC13-HC14 Lab Mean	Diff from Grand Mean	CPV	Instr Code
22FKXC		49.00	-4.09	-1.32	64.50	-3.11	-1.10	BT
23TYJ2		52.60	-0.49	-0.16	67.80	0.19	0.07	BT
2P7PXV		55.90	2.81	0.91	68.65	1.04	0.37	BT
69QT7R		56.25	3.16	1.02	70.00	2.39	0.85	HH
7FKEBW	*	46.00	-7.09	-2.29	59.50	-8.11	-2.87	BT
7GDDKN		51.50	-1.59	-0.51	68.00	0.39	0.14	HH
7XL32V		52.50	-0.59	-0.19	67.30	-0.31	-0.11	BT
AG3HUE		54.25	1.16	0.38	70.00	2.39	0.85	HH
AN4WEF		50.10	-2.99	-0.96	66.00	-1.61	-0.57	BT
BPW6Z4		49.00	-4.09	-1.32	65.50	-2.11	-0.75	HH
CLTUJU		57.00	3.91	1.27	73.00	5.39	1.91	HH
DQJGXZ		52.00	-1.09	-0.35	67.00	-0.61	-0.21	BT
E8KRUH		49.50	-3.59	-1.16	63.50	-4.11	-1.45	BT
ECDPNF		57.05	3.96	1.28	70.80	3.19	1.13	HH
FCD2Q3		57.00	3.91	1.27	71.00	3.39	1.20	HH
FG3TPH		48.25	-4.84	-1.56	62.50	-5.11	-1.81	BT
FJQXPG		50.50	-2.59	-0.84	66.50	-1.11	-0.39	BT
GUTKC8		50.70	-2.39	-0.77	65.65	-1.96	-0.69	BT
HEACTF		57.50	4.41	1.43	69.50	1.89	0.67	BT
JACG4D		52.05	-1.04	-0.33	66.80	-0.81	-0.29	BT
JG9C4W		59.50	6.41	2.07	73.50	5.89	2.09	BT
LMPCQM		53.00	-0.09	-0.03	68.00	0.39	0.14	HH
LQR6TX		53.00	-0.09	-0.03	68.00	0.39	0.14	BT
LURGNX		54.00	0.91	0.30	67.00	-0.61	-0.21	XX
N264DK		56.00	2.91	0.94	69.50	1.89	0.67	HH
R2V9H4		56.00	2.91	0.94	70.00	2.39	0.85	BT
UWQQRD		53.00	-0.09	-0.03	66.00	-1.61	-0.57	BT
VNCXH3		54.50	1.41	0.46	69.00	1.39	0.49	XX
WE32ZG		53.00	-0.09	-0.03	68.00	0.39	0.14	HH
WJGLZB		50.20	-2.89	-0.93	65.65	-1.96	-0.69	BT
X2P8YN		56.00	2.91	0.94	69.75	2.14	0.76	BT
XBHDWW		54.50	1.41	0.46	68.00	0.39	0.14	HH
Y8CLU9		51.05	-2.04	-0.66	67.75	0.14	0.05	BT
YZXLRJ		52.50	-0.59	-0.19	65.00	-2.61	-0.92	BT

Summary Statistics

Grand Means	53.085 Type D	67.607 Type D
Stnd Dev Btwn Labs	3.094 Type D	2.825 Type D

Statistics based on 34 of 34 reporting participants

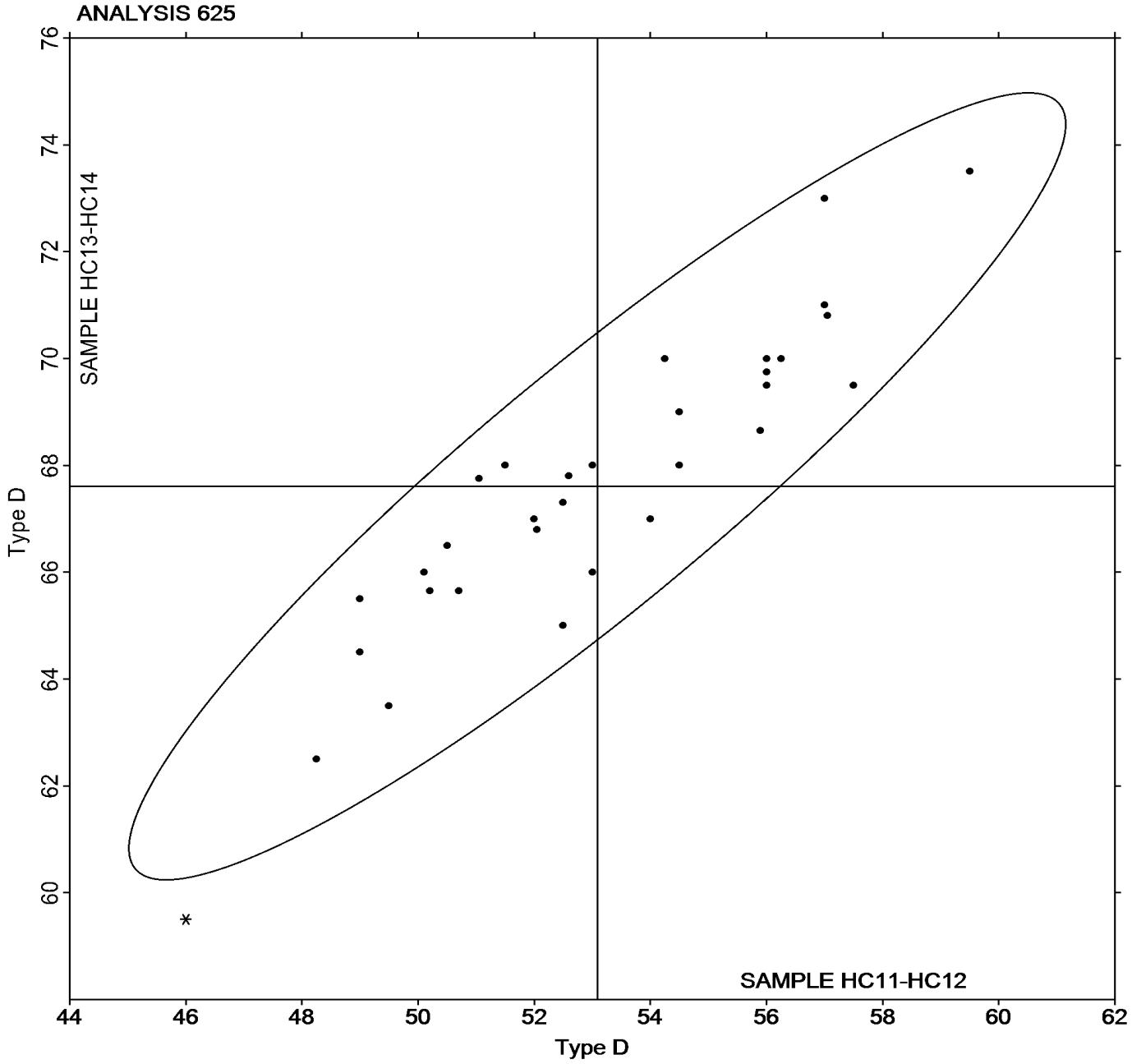
Samples HC11-HC12: Hardness Disc, batch #1 & HC13-HC14: Hardness Disc, batch #2

Key to Instrument Codes Reported by Participants

BT	Benchtop	HH	Handheld
XX	Specify Benchtop or Handheld Instrument		

Grand Mean Sample **HC11-HC12** = 53.085 Type D

Grand Mean Sample **HC13-HC14** = 67.607 Type D



WebCode	Data Flag	Sample C11-C12 Lab Mean	Sample C11-C12 Diff from Grand Mean	Sample C11-C12 CPV	Sample L11-L12 Lab Mean	Sample L11-L12 Diff from Grand Mean	Sample L11-L12 CPV
23TYJ2		2,864.5	-252.8	-1.97	3,161.9	82.5	0.48
2X3K2L		3,201.0	83.7	0.65	3,166.0	86.7	0.50
3NRMN2		3,036.0	-81.4	-0.63	2,926.7	-152.6	-0.89
4A3693		3,078.0	-39.3	-0.31	3,098.1	18.8	0.11
4EUEEV		3,273.0	155.7	1.21	3,234.0	154.7	0.90
7Q4V2H		3,339.5	222.2	1.73	3,020.5	-58.8	-0.34
7R2WBG		2,972.0	-145.3	-1.13	3,146.0	66.7	0.39
7XJFKH		3,014.6	-102.7	-0.80	3,015.7	-63.6	-0.37
7XL32V		3,071.3	-46.0	-0.36	3,281.2	201.9	1.17
A34TFT		2,910.6	-206.7	-1.61	3,091.6	12.3	0.07
AG3DGQ		3,138.7	21.4	0.17	3,230.6	151.3	0.88
AKLMCA		3,219.9	102.5	0.80	3,074.8	-4.5	-0.03
DFEDMB		3,145.0	27.7	0.22	3,030.0	-49.3	-0.29
DP6YTA		3,096.6	-20.7	-0.16	3,169.1	89.8	0.52
EQWEHC		2,932.8	-184.5	-1.44	3,043.8	-35.5	-0.21
FGLCWB	X	2,782.6	-334.7	-2.61	799.2	-2,280.1	-13.27
GJA4LL		2,965.5	-151.8	-1.18	2,676.2	-403.1	-2.35
GKFTMA		3,098.0	-19.3	-0.15	3,109.5	30.2	0.18
GUTKC8		3,172.7	55.4	0.43	2,973.3	-106.0	-0.62
LJBRRE		3,037.5	-79.8	-0.62	2,803.0	-276.3	-1.61
LQR6TX		3,128.4	11.0	0.09	3,136.9	57.6	0.34
LQUXPK		3,005.2	-112.1	-0.87	2,956.1	-123.2	-0.72
MTCEF6		3,262.5	145.2	1.13	3,295.5	216.2	1.26
PZA27V		3,320.0	202.7	1.58	3,460.0	380.7	2.21
QCDQDV		2,993.5	-123.8	-0.96	3,010.5	-68.8	-0.40
U2LERT		3,133.5	16.1	0.13	3,241.2	161.9	0.94
U66JAN	X	3,939.3	821.9	6.41	4,049.5	970.2	5.64
UADUFW		3,272.1	154.7	1.21	3,048.0	-31.3	-0.18
UPA3KQ		3,193.6	76.2	0.59	3,143.3	63.9	0.37
VH8EZ4		3,173.4	56.1	0.44	3,316.0	236.6	1.38
YC6ED4		3,177.4	60.1	0.47	2,991.8	-87.5	-0.51
YMPLA8		3,210.0	92.7	0.72	2,758.0	-321.3	-1.87
ZNF39M		2,981.0	-136.3	-1.06	3,159.0	79.7	0.46
ZPMQZX	*	3,336.6	219.3	1.71	2,769.5	-309.8	-1.80

Summary Statistics		
Grand Means	3,117.32 psi	3,079.30 psi
Stnd Dev Btwn Labs	128.33 psi	171.88 psi
		Statistics based on 32 of 34 reporting participants

Summary Statistics in SI Units		
Grand Means	21.493 MPa	21.23 MPa
Stnd Dev Btwn Labs	0.885 MPa	1.19 MPa
		Statistics based on 32 of 34 reporting participants

Samples C11-C12: Polyisoprene compound, batch #1 & L11-L12: Polyisoprene compound, batch #1

Comments on Assigned Data Flags for Test #630

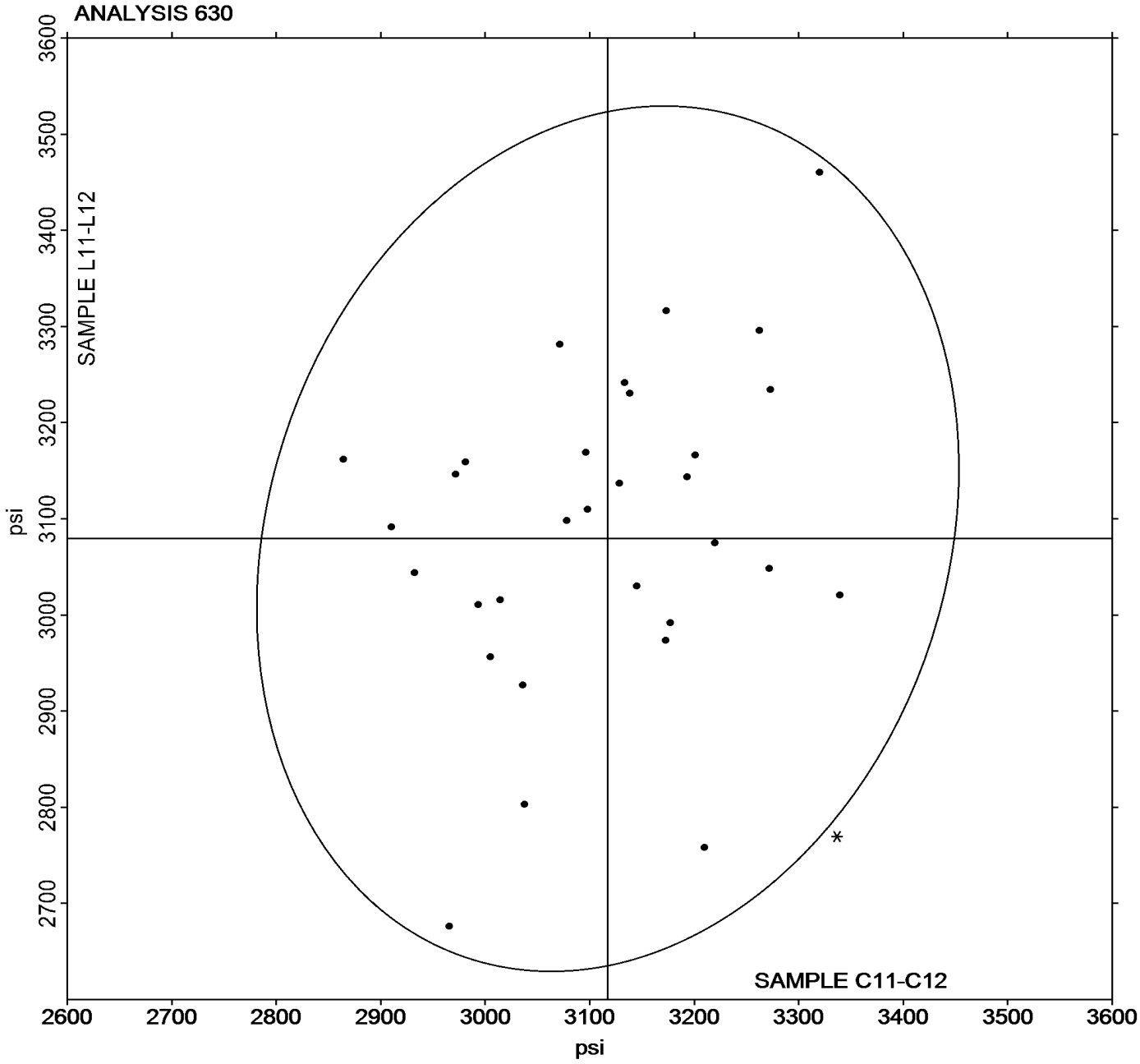
FGLCWB (X) - Data for sample group L11-L12 are high.

U66JAN (X) - Data for all samples are high.

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

Grand Mean Sample **C11-C12** = 3,117.32 psi

Grand Mean Sample **L11-L12** = 3,079.30 psi



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

WebCode	Data Flag	Sample C11-C12 Lab Mean	Sample C11-C12 Diff from Grand Mean	Sample C11-C12 CPV	Sample L11-L12 Lab Mean	Sample L11-L12 Diff from Grand Mean	Sample L11-L12 CPV
23TYJ2		648.0	-24.7	-0.66	573.8	-8.4	-0.31
2X3K2L		695.0	22.3	0.60	595.5	13.3	0.49
3NRMN2		685.8	13.1	0.35	586.8	4.7	0.17
4A3693	X	824.5	151.8	4.05	563.5	-18.7	-0.69
4EUEEV		607.0	-65.7	-1.75	541.5	-40.7	-1.50
7Q4V2H		728.0	55.3	1.48	619.0	36.8	1.36
7R2WBG		674.5	1.8	0.05	599.0	16.8	0.62
7XJFKH		648.3	-24.4	-0.65	554.8	-27.4	-1.01
7XL32V		646.0	-26.7	-0.71	562.0	-20.2	-0.74
A34TFT		642.5	-30.2	-0.80	574.5	-7.7	-0.28
AG3DGQ		655.0	-17.7	-0.47	591.5	9.3	0.34
AKLMCA		690.5	17.8	0.48	578.5	-3.7	-0.13
DFEDMB	*	640.5	-32.2	-0.86	609.0	26.8	0.99
DP6YTA		692.0	19.3	0.52	596.5	14.3	0.53
EQWEHC		693.0	20.3	0.54	578.5	-3.7	-0.13
FGLCWB		634.0	-38.7	-1.03	577.0	-5.2	-0.19
GJA4LL		707.5	34.8	0.93	595.5	13.3	0.49
GKFTMA		667.5	-5.2	-0.14	584.5	2.3	0.09
GUTKC8		638.3	-34.4	-0.92	543.2	-39.0	-1.44
LJBRRE		654.5	-18.2	-0.48	578.0	-4.2	-0.15
LQR6TX	X	336.6	-336.1	-8.97	602.1	20.0	0.74
LQUXPK		697.3	24.6	0.66	599.4	17.2	0.63
MTCEF6		663.0	-9.7	-0.26	581.0	-1.2	-0.04
PZA27V		714.5	41.8	1.12	621.0	38.8	1.43
QCDQDV		671.0	-1.7	-0.04	572.5	-9.7	-0.36
U2LERT		654.0	-18.7	-0.50	556.0	-26.2	-0.96
U66JAN	*	779.8	107.1	2.86	646.8	64.6	2.38
UADUFW		637.2	-35.5	-0.95	545.1	-37.0	-1.36
UPA3KQ		595.5	-77.1	-2.06	519.7	-62.4	-2.30
VH8EZ4		652.1	-20.6	-0.55	579.2	-3.0	-0.11
YC6ED4		693.5	20.8	0.56	614.5	32.3	1.19
YMPLA8		702.0	29.3	0.78	562.5	-19.7	-0.72
ZNF39M		700.0	27.3	0.73	569.5	-12.7	-0.47
ZPMQZX		717.8	45.1	1.20	622.6	40.4	1.49

Summary Statistics		
Grand Means	672.67 percent	582.15 percent
Stnd Dev Btwn Labs	37.48 percent	27.13 percent
		Statistics based on 32 of 34 reporting participants

Samples C11-C12: Polyisoprene compound, batch #1 & L11-L12: Polyisoprene compound, batch #1

Comments on Assigned Data Flags for Test #631

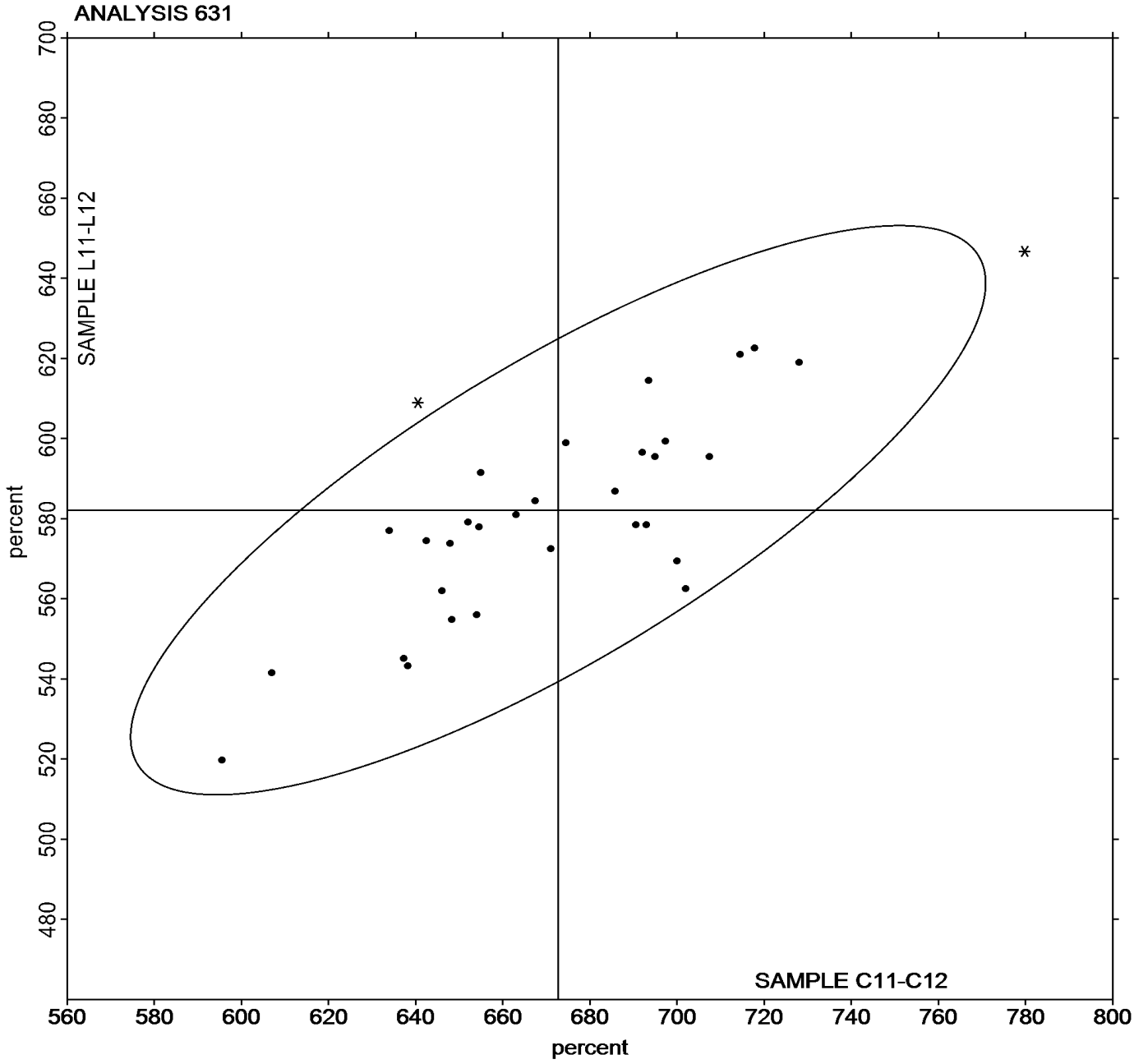
4A3693 (X) - Data for sample group C11-C12 are high. Inconsistent within the determinations of sample group C11-C12.

LQR6TX (X) - Data for sample group C11-C12 are low.

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

Grand Mean Sample **C11-C12** = 672.67 percent

Grand Mean Sample **L11-L12** = 582.15 percent



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

WebCode	Data Flag	Sample C11-C12 Lab Mean	Sample C11-C12 Diff from Grand Mean	Sample C11-C12 CPV	Sample L11-L12 Lab Mean	Sample L11-L12 Diff from Grand Mean	Sample L11-L12 CPV
23TYJ2		672.3	-20.6	-0.29	1,148.0	103.5	0.93
2X3K2L		647.5	-45.3	-0.64	948.5	-96.0	-0.86
3NRMN2		607.8	-85.1	-1.20	941.8	-102.7	-0.92
4A3693		683.9	-8.9	-0.13	1,102.0	57.5	0.52
4EUEEV		857.0	164.2	2.32	1,207.5	163.0	1.47
7Q4V2H		660.5	-32.3	-0.46	898.0	-146.5	-1.32
7R2WBG		620.5	-72.3	-1.02	1,017.0	-27.5	-0.25
7XJFKH		716.6	23.7	0.33	1,156.8	112.3	1.01
7XL32V		714.1	21.2	0.30	1,208.1	163.6	1.47
A34TFT		711.9	19.0	0.27	1,072.7	28.2	0.25
AG3DGQ		704.0	11.2	0.16	1,016.0	-28.5	-0.26
AKLMCA		698.4	5.5	0.08	1,026.9	-17.6	-0.16
DFEDMB	*	871.0	178.2	2.51	971.0	-73.5	-0.66
DP6YTA		655.6	-37.3	-0.53	995.7	-48.8	-0.44
EQWEHC		642.0	-50.9	-0.72	1,108.4	63.9	0.58
FGLCWB	X	706.3	13.5	0.19	218.3	-826.2	-7.44
GJA4LL		615.0	-77.8	-1.10	899.8	-144.7	-1.30
GKFTMA		686.5	-6.3	-0.09	1,012.5	-32.0	-0.29
GUTKC8		736.1	43.2	0.61	1,066.4	21.9	0.20
LJBRRE		674.5	-18.3	-0.26	936.5	-108.0	-0.97
LQR6TX	X	2,546.0	1,853.1	26.15	2,541.2	1,496.7	13.47
LQUXPK		603.7	-89.1	-1.26	873.5	-171.0	-1.54
MTCEF6		752.0	59.2	0.83	1,149.5	105.0	0.95
PZA27V		653.0	-39.8	-0.56	1,065.0	20.5	0.18
QCDQDV		680.5	-12.3	-0.17	1,066.5	22.0	0.20
U2LERT		712.6	19.8	0.28	1,204.4	159.9	1.44
U66JAN		659.2	-33.6	-0.47	1,146.3	101.8	0.92
UADUFW		785.5	92.6	1.31	1,039.4	-5.1	-0.05
UPA3KQ		840.2	147.4	2.08	1,228.4	183.9	1.66
VH8EZ4		755.4	62.6	0.88	1,185.3	140.8	1.27
YC6ED4		651.7	-41.2	-0.58	886.4	-158.1	-1.42
YMPLA8		678.5	-14.3	-0.20	938.0	-106.5	-0.96
ZNF39M		572.0	-120.8	-1.71	1,074.5	30.0	0.27
ZPMQZX		652.0	-40.9	-0.58	833.2	-211.3	-1.90

Summary Statistics		
Grand Means	692.85 psi	1,044.50 psi
Stnd Dev Btwn Labs	70.86 psi	111.08 psi
		Statistics based on 32 of 34 reporting participants

Summary Statistics in SI Units		
Grand Means	4.7770 MPa	7.20 MPa
Stnd Dev Btwn Labs	0.4886 MPa	0.77 MPa
		Statistics based on 32 of 34 reporting participants

Samples C11-C12: Polyisoprene compound, batch #1 & L11-L12: Polyisoprene compound, batch #1

Comments on Assigned Data Flags for Test #632

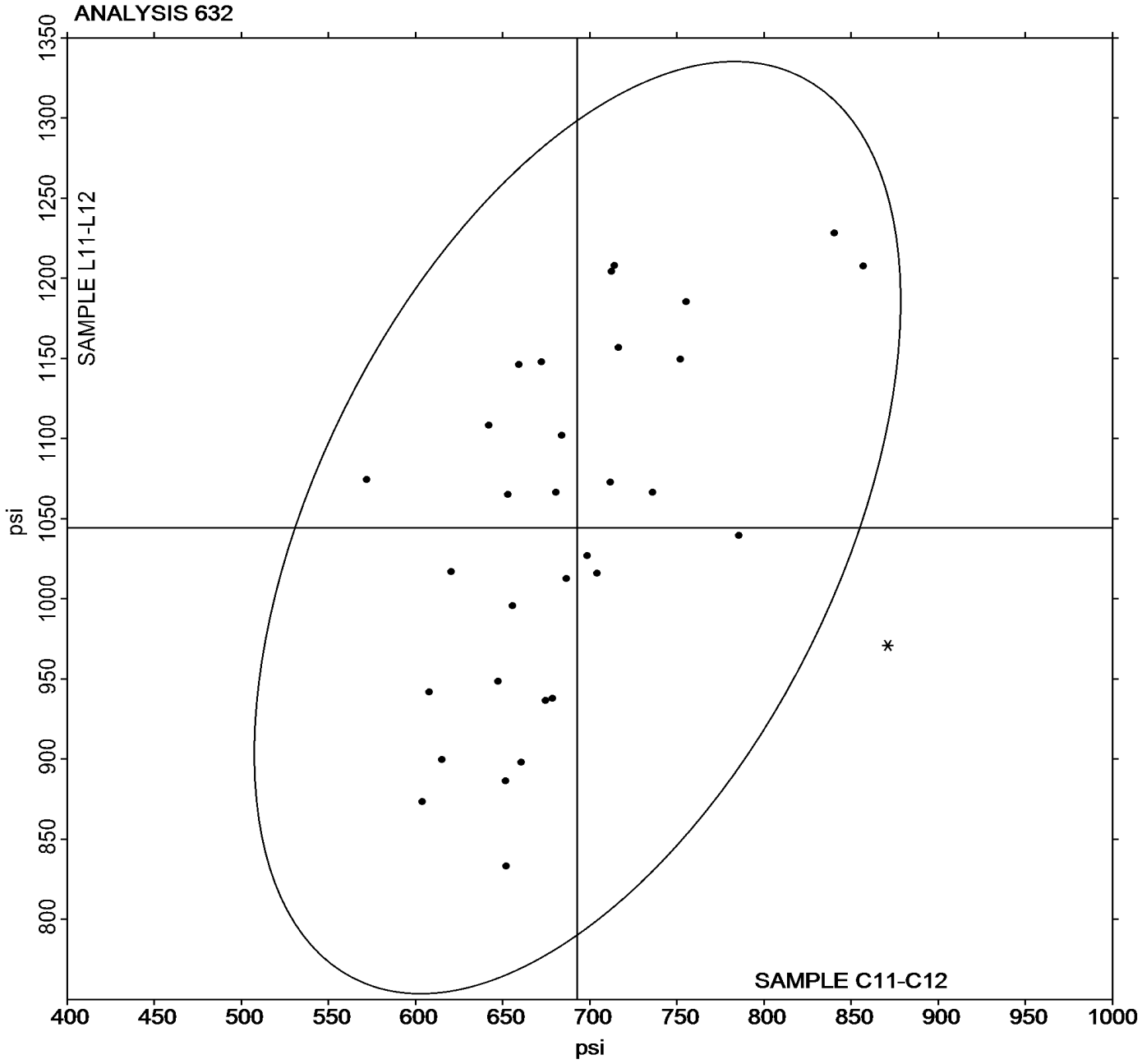
FGLCWB (X) - Data for sample group L11-L12 are low.

LQR6TX (X) - Extreme Data for all sample groups.

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

Grand Mean Sample **C11-C12** = 692.85 psi

Grand Mean Sample **L11-L12** = 1,044.50 psi



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

WebCode	Data Flag	Sample C11-C12 Lab Mean	Sample C11-C12 Diff from Grand Mean	Sample C11-C12 CPV	Sample L11-L12 Lab Mean	Sample L11-L12 Diff from Grand Mean	Sample L11-L12 CPV
23TYJ2		152.3	-10.4	-0.80	245.1	13.0	0.56
2X3K2L		157.0	-5.7	-0.44	201.5	-30.6	-1.32
3NRMN2		137.9	-24.8	-1.92	202.9	-29.2	-1.26
4A3693		161.8	-0.9	-0.07	238.0	5.9	0.25
4EUEEV		179.0	16.3	1.26	240.0	7.9	0.34
7Q4V2H		160.0	-2.7	-0.21	209.0	-23.1	-0.99
7R2WBG		149.0	-13.7	-1.06	233.5	1.4	0.06
7XJFKH		164.3	1.6	0.12	253.8	21.6	0.93
7XL32V		159.5	-3.2	-0.25	252.6	20.5	0.88
A34TFT		184.2	21.5	1.66	249.8	17.7	0.76
AG3DGQ		165.0	2.3	0.18	224.0	-8.1	-0.35
AKLMCA		158.1	-4.6	-0.36	229.2	-2.9	-0.13
DFEDMB	X	215.0	52.3	4.05	218.0	-14.1	-0.61
DP6YTA		158.8	-3.9	-0.30	234.2	2.1	0.09
EQWEHC		175.5	12.8	0.99	273.1	41.0	1.76
FGLCWB	X	166.8	4.1	0.32	71.1	-161.0	-6.93
GJA4LL		155.0	-7.7	-0.60	209.7	-22.4	-0.96
GKFTMA		161.0	-1.7	-0.13	230.5	-1.6	-0.07
GUTKC8		164.3	1.6	0.12	224.8	-7.3	-0.31
LJBRRE		166.0	3.3	0.26	215.0	-17.1	-0.74
LQR6TX	X	356.3	193.6	14.98	249.6	17.5	0.75
LQUXPK		147.1	-15.6	-1.21	198.8	-33.3	-1.43
MTCEF6		173.5	10.8	0.84	258.5	26.4	1.14
PZA27V		153.5	-9.2	-0.71	242.0	9.9	0.43
QCDQDV		165.0	2.3	0.18	236.5	4.4	0.19
U2LERT		154.5	-8.2	-0.64	254.2	22.1	0.95
U66JAN		189.3	26.6	2.06	278.9	46.8	2.01
UADUFW		184.7	22.0	1.70	236.0	3.9	0.17
UPA3KQ		170.4	7.7	0.59	236.5	4.4	0.19
VH8EZ4		180.7	18.0	1.39	264.4	32.2	1.39
YC6ED4		148.5	-14.2	-1.10	191.5	-40.7	-1.75
YMPLA8		173.5	10.8	0.84	227.0	-5.1	-0.22
ZNF39M		138.5	-24.2	-1.87	220.0	-12.1	-0.52
ZPMQZX		155.9	-6.8	-0.52	184.2	-47.9	-2.06

Summary Statistics		
Grand Means	162.69 psi	232.10 psi
Stnd Dev Btwn Labs	12.93 psi	23.24 psi
		Statistics based on 31 of 34 reporting participants

Summary Statistics in SI Units		
Grand Means	1.1217 MPa	1.60 MPa
Stnd Dev Btwn Labs	0.0891 MPa	0.16 MPa
		Statistics based on 31 of 34 reporting participants

Samples C11-C12: Polyisoprene compound, batch #1 & L11-L12: Polyisoprene compound, batch #1

Comments on Assigned Data Flags for Test #633

DFEDMB (X) - Data for sample group C11-C12 are high.

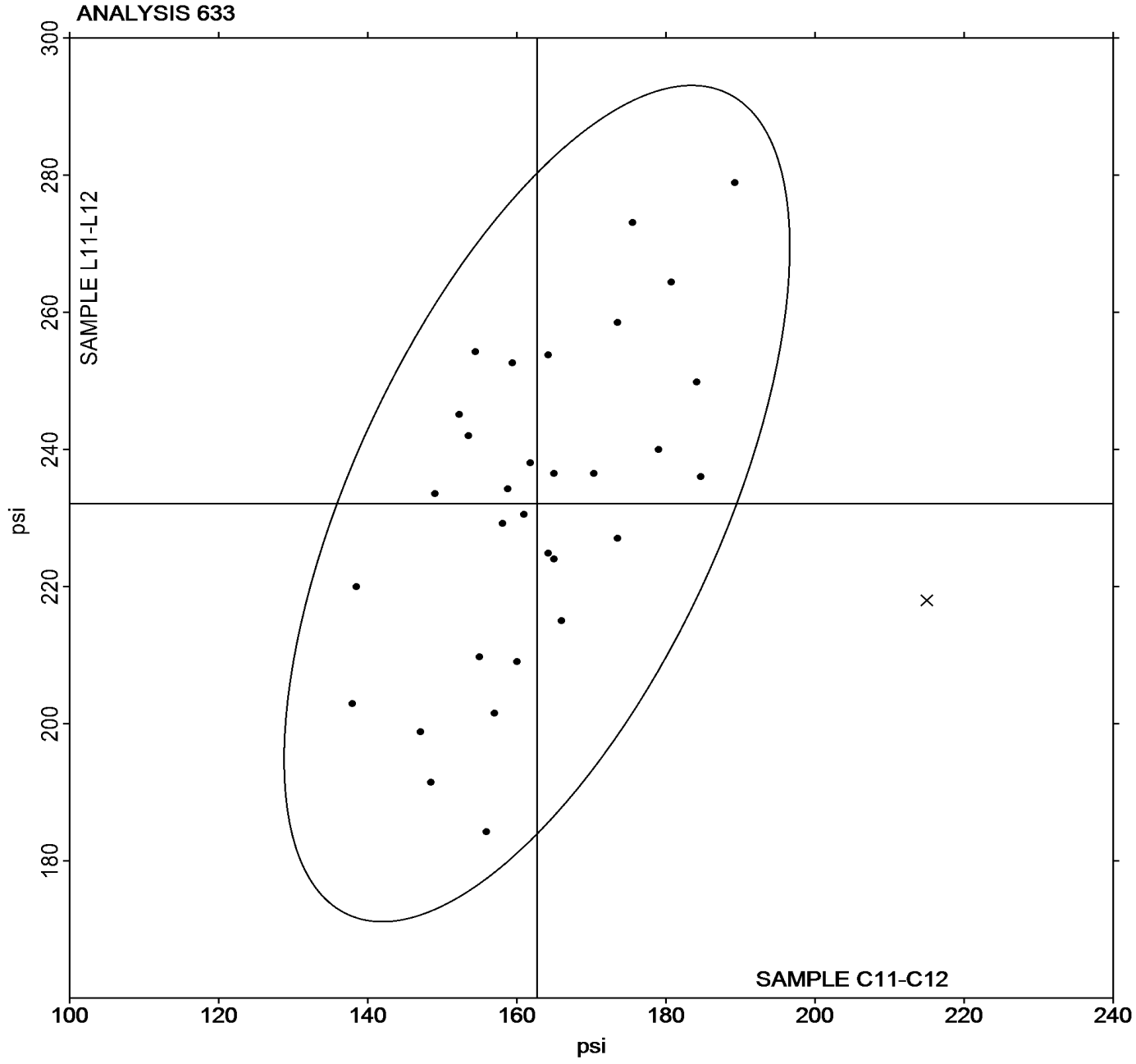
FGLCWB (X) - Data for sample group L11-L12 are low.

LQR6TX (X) - Extreme Data for sample group C11-C12. Inconsistent within the determinations of sample group L11-L12.

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

Grand Mean Sample **C11-C12** = 162.69 psi

Grand Mean Sample **L11-L12** = 232.10 psi



WebCode	Data Flag	Sample P11 Lab Mean	Sample P11 Diff from Grand Mean	Sample P11 CPV	Sample P12 Lab Mean	Sample P12 Diff from Grand Mean	Sample P12 CPV
22FKXC		31.97	-0.97	-0.17	35.60	2.18	0.38
23VT2L		34.67	1.73	0.30	39.00	5.58	0.98
24LXUT		24.52	-8.42	-1.45	26.53	-6.89	-1.21
27TBF2	*	48.53	15.60	2.69	45.87	12.45	2.19
38FF36	X	25.77	-7.17	-1.24	37.60	4.18	0.74
3JU4KH	*	38.00	5.07	0.87	31.00	-2.42	-0.43
4EUEEV		31.89	-1.04	-0.18	30.49	-2.93	-0.52
6KGJQV		29.09	-3.84	-0.66	29.71	-3.70	-0.65
7GDDKN		35.33	2.40	0.41	36.00	2.58	0.46
7R2WBG		26.00	-6.93	-1.20	25.33	-8.08	-1.42
7XJFKH		39.33	6.40	1.10	40.80	7.38	1.30
7XL32V		33.46	0.53	0.09	33.00	-0.41	-0.07
AAJCVL		26.68	-6.25	-1.08	26.88	-6.54	-1.15
AG3DGQ		28.92	-4.01	-0.69	31.19	-2.23	-0.39
AHH2DB		30.33	-2.60	-0.45	29.00	-4.42	-0.78
DQJGXZ		30.00	-2.93	-0.51	35.00	1.58	0.28
E2D4GG		31.00	-1.93	-0.33	33.33	-0.08	-0.01
FCD2Q3		42.80	9.87	1.70	42.90	9.48	1.67
GBVEMD		32.33	-0.60	-0.10	33.40	-0.02	0.00
GJA4LL		40.33	7.40	1.28	36.67	3.25	0.57
GUTKC8		39.87	6.93	1.20	37.47	4.05	0.71
J9YHDA		38.36	5.42	0.94	34.53	1.11	0.20
JACG4D		39.20	6.27	1.08	40.33	6.92	1.22
KN67ZA		34.45	1.52	0.26	34.01	0.59	0.10
KXYA8D		38.00	5.07	0.87	38.00	4.58	0.81
LJBRRE		31.33	-1.60	-0.28	32.33	-1.08	-0.19
LQR6TX		29.06	-3.87	-0.67	32.35	-1.06	-0.19
MA3HZE		35.43	2.50	0.43	34.53	1.12	0.20
NGW486		25.00	-7.93	-1.37	27.00	-6.42	-1.13
P2XNAH	*	33.97	1.03	0.18	42.43	9.02	1.59
PGTY3F		32.83	-0.10	-0.02	32.60	-0.81	-0.14
PZA27V		31.33	-1.60	-0.28	33.33	-0.08	-0.01
R3GDQ2		25.50	-7.43	-1.28	26.90	-6.52	-1.15
UPA3KQ		32.59	-0.34	-0.06	37.40	3.99	0.70
VH8EZ4		30.30	-2.63	-0.45	30.23	-3.18	-0.56
WPKM26		28.87	-4.07	-0.70	25.43	-7.98	-1.41
XFAM3N		30.00	-2.93	-0.51	30.33	-3.08	-0.54

WebCode	Data Flag	Sample P11 Lab Mean	Sample P11 Diff from Grand Mean	Sample P11 CPV	Sample P12 Lab Mean	Sample P12 Diff from Grand Mean	Sample P12 CPV
YC6ED4		42.27	9.33	1.61	45.17	11.75	2.07
YMPLA8	*	17.43	-15.50	-2.68	18.63	-14.78	-2.60
YUNDGG		30.33	-2.60	-0.45	32.33	-1.08	-0.19
ZF4ACW		34.63	1.70	0.29	29.97	-3.45	-0.61
ZGWYZK		34.33	1.40	0.24	33.00	-0.42	-0.07

Summary Statistics

	Sample P11	Sample P12
Grand Means	32.934 % Compression	33.415 % Compression
Stnd Dev Btwn Labs	5.794 % Compression	5.676 % Compression

Statistics based on 41 of 42 reporting participants

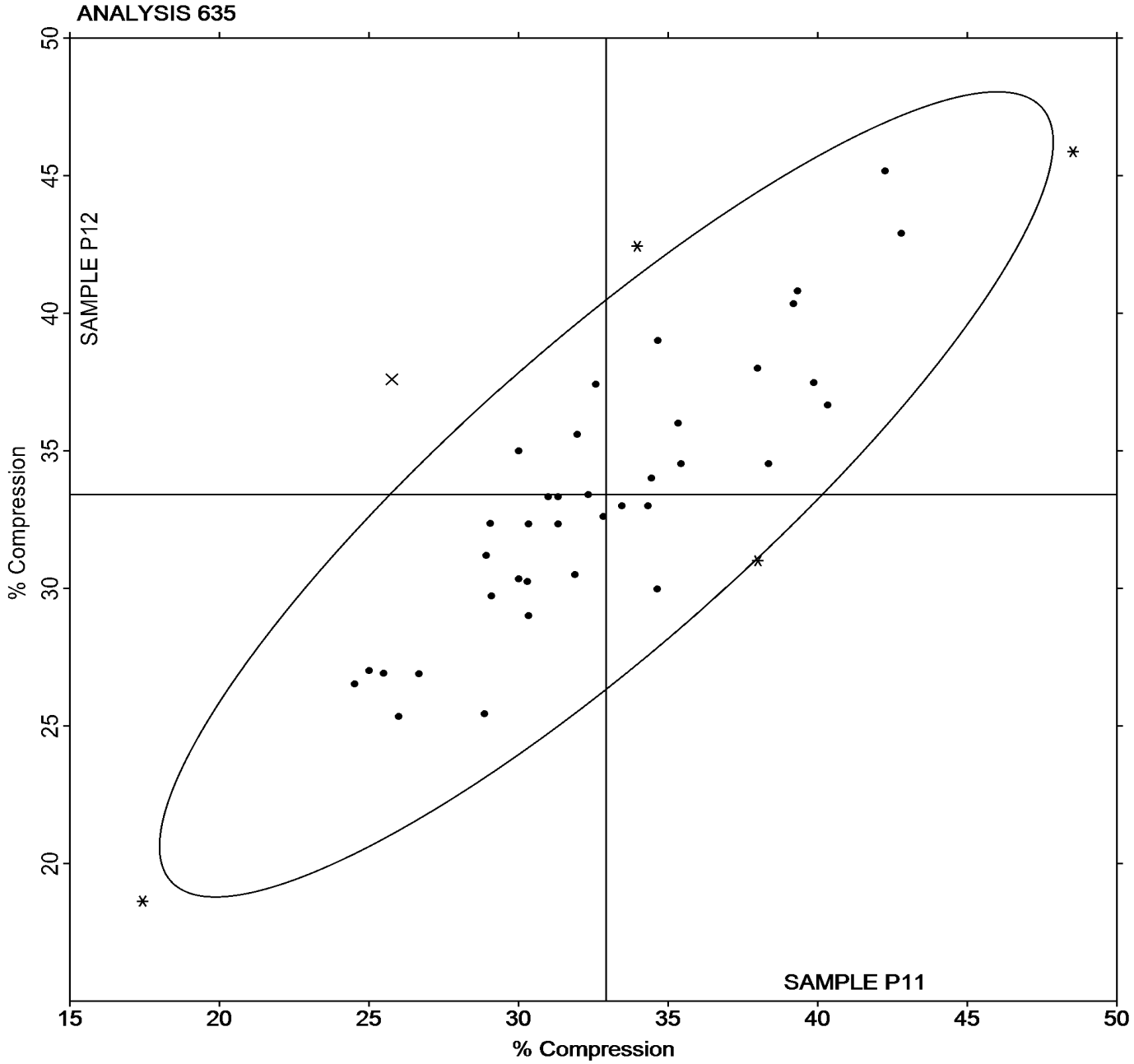
Samples P11: EPDM compound, batch #1 & P12: EPDM compound, batch #1

Comments on Assigned Data Flags for Test #635

38FF36 (X) - Inconsistent in testing between samples.

Grand Mean Sample **P11** = 32.934 % Compression

Grand Mean Sample **P12** = 33.415 % Compression



WebCode	Data Flag	Sample U11-U12 Lab Mean	Diff from Grand Mean	CPV	Sample U13-U14 Lab Mean	Diff from Grand Mean	CPV	Instr Code
23TYJ2		41.00	-1.00	-1.27	53.47	-0.73	-0.78	MR
27TBF2		42.10	0.10	0.13	54.57	0.37	0.40	MR
2FKJ7J		41.47	-0.53	-0.68	54.87	0.67	0.73	MP
2X3K2L		42.11	0.11	0.14	54.62	0.42	0.46	MR
3JU4KH		41.34	-0.66	-0.84	53.94	-0.25	-0.27	MR
3NRMN2	*	44.38	2.37	3.02	56.70	2.51	2.71	TV
4EUEEV		41.24	-0.76	-0.97	53.68	-0.52	-0.56	MR
4VJKQV		42.00	0.00	0.00	54.02	-0.18	-0.19	MR
4VM843		42.50	0.50	0.63	53.20	-0.99	-1.07	MR
7EAH2L		43.45	1.45	1.84	56.40	2.21	2.38	MR
7Q4V2H		42.00	0.00	0.00	54.17	-0.03	-0.03	MV
7R2WBG		41.08	-0.92	-1.17	52.65	-1.54	-1.67	MR
A34TFT		42.92	0.92	1.16	54.82	0.62	0.67	MR
AG3DGQ		42.86	0.86	1.10	54.89	0.69	0.75	ML
AKLMCA		41.50	-0.50	-0.64	53.85	-0.34	-0.37	MR
DFEDMB		42.72	0.72	0.91	54.94	0.75	0.80	MZ
EQWEHC		42.70	0.70	0.89	55.56	1.36	1.47	XX
FGLCWB		41.30	-0.71	-0.90	54.20	0.01	0.01	MV
FWKCV7		40.75	-1.25	-1.59	52.02	-2.18	-2.35	MR
GBVEMD		41.83	-0.17	-0.21	53.95	-0.24	-0.26	MR
GKFTMA		41.28	-0.72	-0.91	53.62	-0.58	-0.62	XX
GUTKC8		42.52	0.52	0.66	53.75	-0.44	-0.48	MR
JAWVWW		40.94	-1.06	-1.34	54.23	0.03	0.04	XX
JJ3QY2		41.20	-0.80	-1.02	53.48	-0.71	-0.77	MR
LC9K96		42.98	0.98	1.25	54.87	0.67	0.73	MR
LQUXPK		42.14	0.13	0.17	54.45	0.26	0.28	MR
LZVHM8		42.62	0.62	0.78	54.18	-0.01	-0.01	MR
MTCEF6		42.60	0.60	0.76	55.06	0.86	0.93	MV
PZA27V		41.88	-0.12	-0.15	53.18	-1.01	-1.09	MR
Q9E9LV		41.97	-0.03	-0.04	53.20	-0.99	-1.07	MR
QCDQDV		42.37	0.37	0.47	54.03	-0.16	-0.17	MR
QQW8QT		41.36	-0.64	-0.81	53.65	-0.54	-0.59	MV
RQCW66		41.55	-0.45	-0.57	53.30	-0.89	-0.96	MR
U2LERT		42.02	0.02	0.02	54.23	0.04	0.04	MR
U66JAN	*	40.83	-1.17	-1.48	54.57	0.37	0.40	MR
UADUFW		43.21	1.21	1.53	55.71	1.51	1.63	ML
V624QW	X	44.65	2.65	3.36	55.24	1.04	1.12	TA
VH8EZ4		41.87	-0.13	-0.17	53.67	-0.53	-0.57	MR

WebCode	Data Flag	Sample U11-U12 Lab Mean	Sample U11-U12 Diff from Grand Mean	Sample U11-U12 CPV	Sample U13-U14 Lab Mean	Sample U13-U14 Diff from Grand Mean	Sample U13-U14 CPV	Instr Code
VNQG6K		41.69	-0.31	-0.39	53.68	-0.52	-0.56	MR
VQJDRU		41.68	-0.32	-0.40	53.62	-0.58	-0.62	MR
ZNF39M		42.09	0.08	0.11	54.80	0.61	0.66	MV

Summary Statistics

	Sample U11-U12	Sample U13-U14
Grand Means	42.001 ML 1 + 4	54.194 ML 1 + 4
Stnd Dev Btwn Labs	0.787 ML 1 + 4	0.927 ML 1 + 4

Statistics based on 40 of 41 reporting participants

Samples U11-U12: SBR & U13-U14: Butyl

Comments on Assigned Data Flags for Test #660

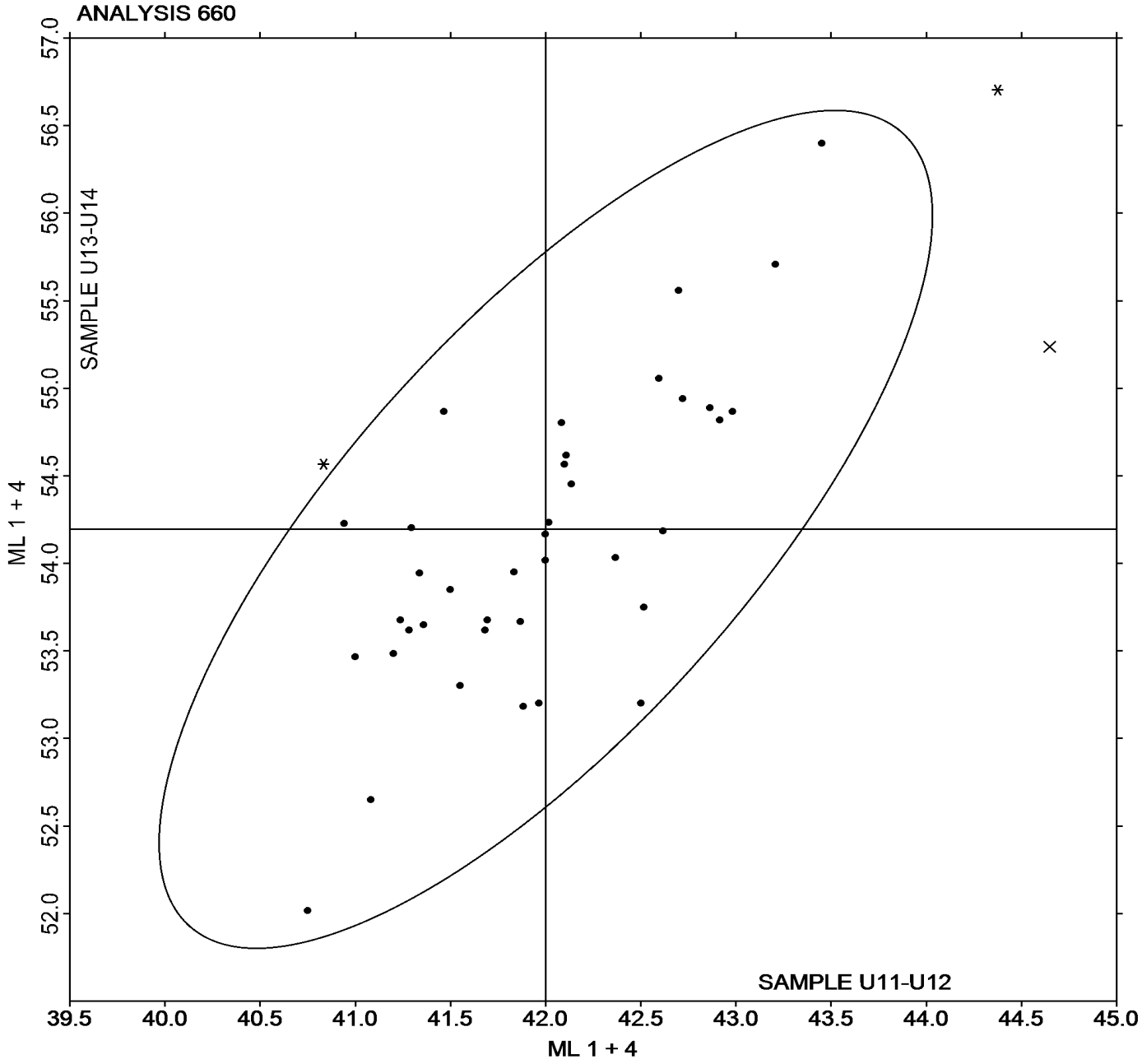
V624QW (X) - Data for sample group U11-U12 are high.

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)
TV	Tech Pro Visc Tech (any model)	XX	Instrument make/model not specified by lab

Grand Mean Sample **U11-U12** = 42.001 ML 1 + 4

Grand Mean Sample **U13-U14** = 54.194 ML 1 + 4



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

WebCode	Data Flag	Sample U11-U12 Lab Mean	Diff from Grand Mean	CPV	Sample U13-U14 Lab Mean	Diff from Grand Mean	CPV	Instr Code
23TYJ2		41.00	-1.10	-1.22	51.12	-0.66	-0.67	MR
27TBF2		42.10	0.00	0.00	52.09	0.32	0.33	MR
2FKJ7J		41.47	-0.64	-0.71	51.88	0.11	0.11	MP
2X3K2L		42.11	0.00	0.00	51.84	0.07	0.07	MR
3JU4KH		41.34	-0.77	-0.85	50.84	-0.93	-0.95	MR
3NRMN2		44.38	2.27	2.51	53.97	2.19	2.26	TV
4EUEEV		41.24	-0.87	-0.96	51.02	-0.75	-0.77	MR
4VJKQV		42.00	-0.10	-0.12	51.27	-0.51	-0.52	MR
7EAH2L		43.45	1.35	1.49	53.63	1.86	1.91	MR
7Q4V2H		42.00	-0.10	-0.12	52.27	0.50	0.51	MV
7R2WBG	X	41.08	-1.02	-1.13	53.07	1.29	1.33	MR
A34TFT		42.92	0.81	0.90	52.52	0.74	0.77	MR
AG3DGQ		42.86	0.76	0.84	52.48	0.71	0.73	ML
AKLMCA		41.50	-0.60	-0.67	50.92	-0.86	-0.88	MR
DFEDMB		42.72	0.62	0.68	52.38	0.61	0.62	MZ
EQWEHC		42.70	0.60	0.66	51.80	0.03	0.03	XX
FGLCWB		41.30	-0.81	-0.90	51.91	0.13	0.14	MV
FWKCV7		40.75	-1.35	-1.50	49.88	-1.89	-1.94	MR
GBVEMD		41.83	-0.27	-0.30	51.20	-0.57	-0.59	MR
GKFTMA		41.28	-0.82	-0.91	50.93	-0.84	-0.86	XX
GUTKC8		42.52	0.41	0.46	51.23	-0.54	-0.55	MR
JAWVWW		40.94	-1.16	-1.28	51.41	-0.36	-0.37	XX
JJ3QY2		41.20	-0.90	-1.00	50.73	-1.04	-1.07	MR
LC9K96		42.98	0.88	0.97	52.13	0.36	0.37	MR
LQUXPK		42.14	0.03	0.03	51.75	-0.02	-0.02	MR
LZVHM8		42.62	0.51	0.57	51.60	-0.17	-0.18	MR
MTCEF6		42.60	0.49	0.55	53.31	1.53	1.58	MV
PZA27V		41.88	-0.22	-0.24	50.45	-1.32	-1.36	MR
Q9E9LV		41.97	-0.14	-0.15	50.93	-0.84	-0.86	MR
QCDQDV		42.37	0.26	0.29	51.78	0.01	0.01	MR
QQW8QT		41.36	-0.74	-0.82	51.24	-0.54	-0.55	MV
U2LERT		42.02	-0.09	-0.10	51.10	-0.67	-0.69	MR
U66JAN		40.83	-1.27	-1.41	51.75	-0.02	-0.02	MR
UADUFW		43.21	1.10	1.22	52.89	1.12	1.15	ML
V624QW	*	44.65	2.54	2.82	54.51	2.73	2.81	TA
VH8EZ4		41.87	-0.24	-0.26	51.32	-0.46	-0.47	MR
VQJDRU		41.68	-0.42	-0.47	51.30	-0.47	-0.49	MR
ZNF39M		42.09	-0.02	-0.02	52.17	0.40	0.41	MV

Summary Statistics		
Grand Means	42.104 ML 1 + 8	51.772 ML 1 + 8
Stnd Dev Btwn Labs	0.903 ML 1 + 8	0.972 ML 1 + 8

Statistics based on 37 of 38 reporting participants

Samples U11-U12: SBR & U13-U14: Butyl

Comments on Assigned Data Flags for Test #661

7R2WBG (X) - Inconsistent in testing between samples.

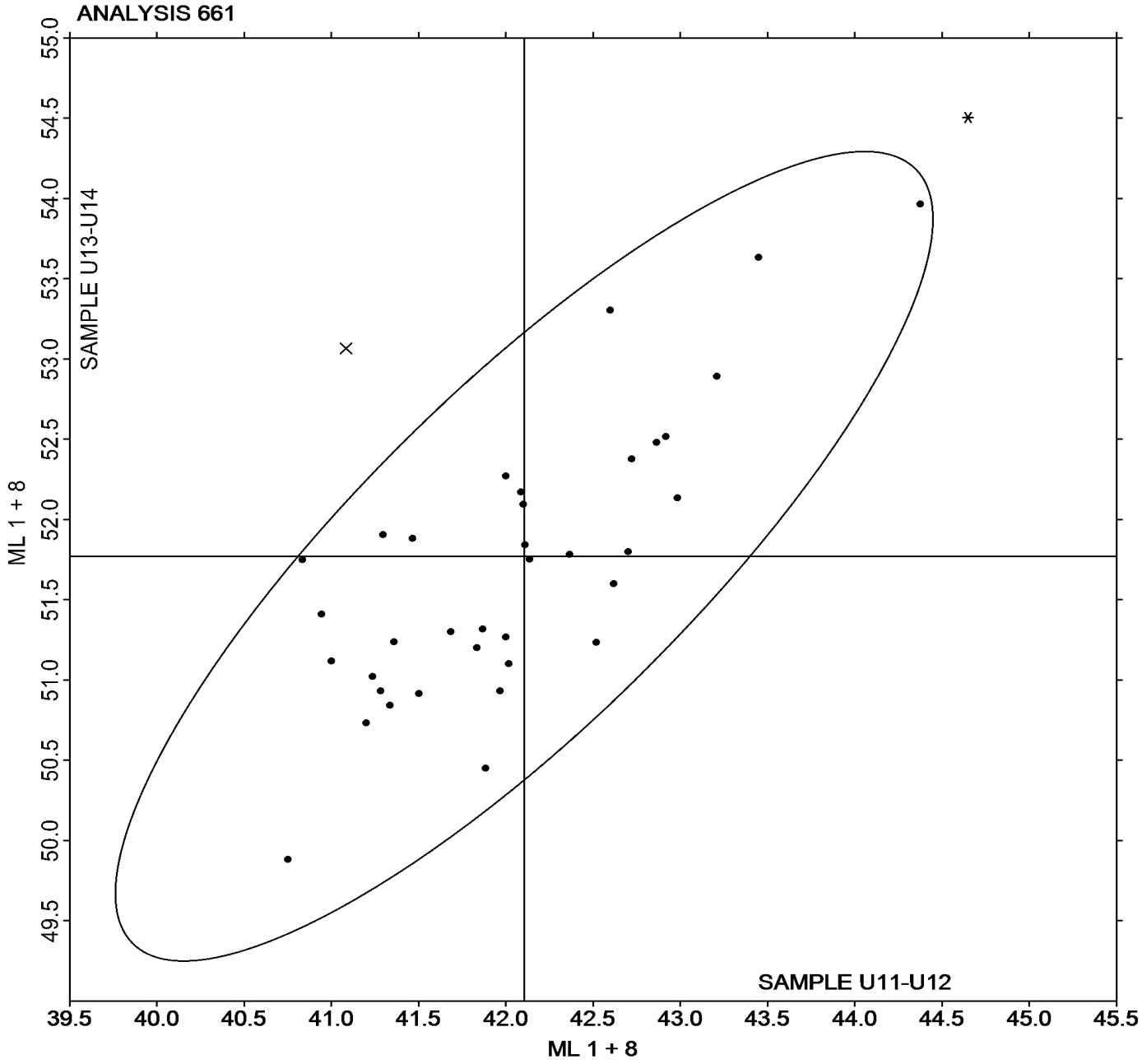
Key to Instrument Codes Reported by Participants

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)
TV	Tech Pro Visc Tech (any model)	XX	Instrument make/model not specified by lab

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

Grand Mean Sample **U11-U12** = 42.104 ML 1 + 8

Grand Mean Sample **U13-U14** = 51.772 ML 1 + 8



WebCode	Data Flag	Sample U11-U12 Lab Mean	Diff from Grand Mean	CPV	Sample U13-U14 Lab Mean	Diff from Grand Mean	CPV	Instr Code
23TYJ2		12.47	1.86	0.65	7.020	0.235	0.27	MR
3JU4KH	X	30.21	19.60	6.78	10.402	3.617	4.10	MR
3NRMN2	X	666.10	655.49	226.81	666.600	659.815	747.64	TV
4EUEEV		11.03	0.42	0.15	6.677	-0.108	-0.12	MR
4VM843		12.10	1.49	0.52	8.100	1.315	1.49	MR
7Q4V2H		12.20	1.59	0.55	7.600	0.815	0.92	MV
AG3DGQ		12.43	1.83	0.63	7.095	0.310	0.35	ML
AKLMCA		11.57	0.97	0.33	6.550	-0.235	-0.27	MR
DFEDMB		5.10	-5.51	-1.90	5.800	-0.985	-1.12	MZ
EQWEHC		11.83	1.23	0.42	8.000	1.215	1.38	XX
FGLCWB		6.90	-3.71	-1.28	5.400	-1.385	-1.57	MV
GKFTMA		12.67	2.06	0.71	6.983	0.198	0.22	XX
JJ3QY2		13.90	3.29	1.14	8.450	1.665	1.89	MR
LC9K96		11.73	1.12	0.39	6.953	0.168	0.19	MR
MTCEF6		4.67	-5.94	-2.05	5.600	-1.185	-1.34	MV
QCDQDV		12.33	1.72	0.60	6.957	0.172	0.19	MR
QQW8QT		5.13	-5.48	-1.90	5.107	-1.678	-1.90	MV
U2LERT		12.42	1.81	0.63	6.800	0.015	0.02	MR
UADUFW		12.38	1.78	0.62	6.973	0.188	0.21	ML
VH8EZ4		10.55	-0.05	-0.02	6.728	-0.057	-0.06	MR
VQJDRU		12.50	1.89	0.66	6.937	0.152	0.17	MR
ZNF39M		8.20	-2.41	-0.83	5.967	-0.818	-0.93	MV

Summary Statistics

	Sample U11-U12	Sample U13-U14
Grand Means	10.605 seconds	6.7848 seconds
Stnd Dev Btwn Labs	2.890 seconds	0.8825 seconds

Statistics based on 20 of 22 reporting participants

Samples U11-U12: SBR & U13-U14: Butyl

Comments on Assigned Data Flags for Test #662

3JU4KH (X) - Data for all samples are high.

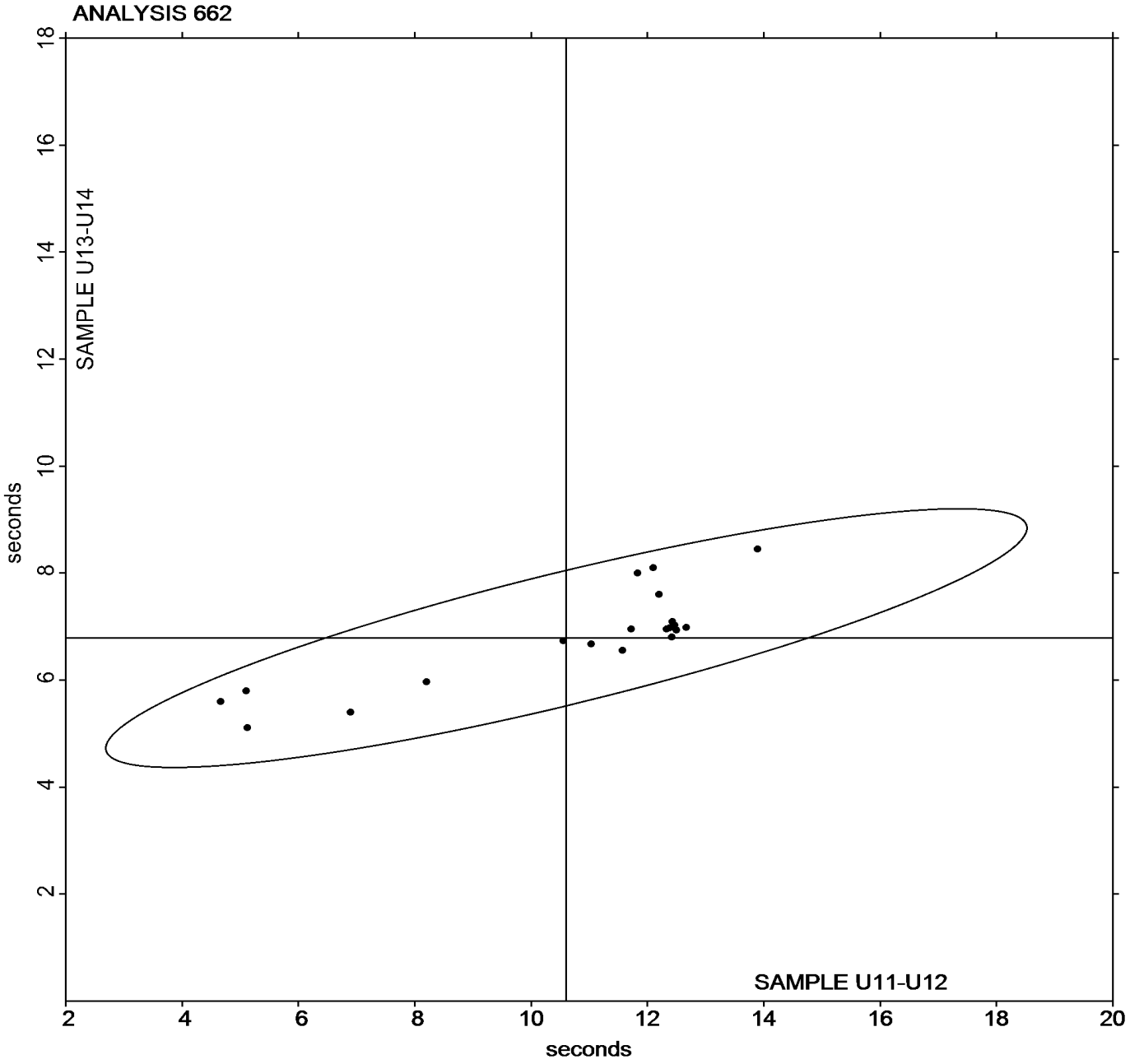
3NRMN2 (X) - Extreme Data. Lab indicated reporting in minutes, but data may be in seconds.

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
TV	Tech Pro Visc Tech (any model)	XX	Instrument make/model not specified by lab

Grand Mean Sample **U11-U12** = 10.605 seconds

Grand Mean Sample **U13-U14** = 6.7848 seconds



WebCode	Data Flag	Sample U11-U12 Lab Mean	Sample U11-U12 Diff from Grand Mean	Sample U11-U12 CPV	Sample U13-U14 Lab Mean	Sample U13-U14 Diff from Grand Mean	Sample U13-U14 CPV	Instr Code
23TYJ2		85.73	-1.13	-0.38	93.02	-0.30	-0.21	MR
3JU4KH	*	80.25	-6.61	-2.23	92.21	-1.11	-0.78	MR
3NRMN2		90.49	3.63	1.22	93.63	0.31	0.22	TV
4EUEEV		86.55	-0.31	-0.11	93.40	0.08	0.06	MR
7Q4V2H		83.65	-3.21	-1.08	91.59	-1.74	-1.22	MV
AG3DGQ		85.73	-1.13	-0.38	92.50	-0.82	-0.57	ML
AKLMCA		86.14	-0.72	-0.24	93.46	0.13	0.09	MR
DFEDMB		91.49	4.63	1.56	94.57	1.25	0.87	MZ
EQWEHC		85.94	-0.92	-0.31	92.10	-1.22	-0.85	XX
FGLCWB	*	91.00	4.14	1.40	97.00	3.68	2.58	MV
GKFTMA		85.57	-1.29	-0.44	92.93	-0.39	-0.27	XX
JJ3QY2		84.77	-2.09	-0.71	91.10	-2.22	-1.56	MR
LC9K96		86.01	-0.85	-0.29	92.68	-0.64	-0.45	MR
MTCEF6		93.54	6.68	2.25	96.42	3.10	2.17	MV
QCDQDV		85.54	-1.32	-0.44	92.28	-1.04	-0.73	MR
QQW8QT		89.17	2.31	0.78	94.30	0.98	0.68	MV
U2LERT		85.61	-1.25	-0.42	93.15	-0.17	-0.12	MR
UADUFW		85.68	-1.18	-0.40	92.68	-0.64	-0.45	ML
VH8EZ4		86.94	0.08	0.03	93.44	0.12	0.08	MR
VQJDRU		85.68	-1.18	-0.40	92.85	-0.47	-0.33	MR
ZNF39M		88.59	1.73	0.58	94.44	1.11	0.78	MV

Summary Statistics

	Sample U11-U12	Sample U13-U14
Grand Means	86.860 percent	93.321 percent
Stnd Dev Btwn Labs	2.963 percent	1.428 percent

Statistics based on 21 of 21 reporting participants

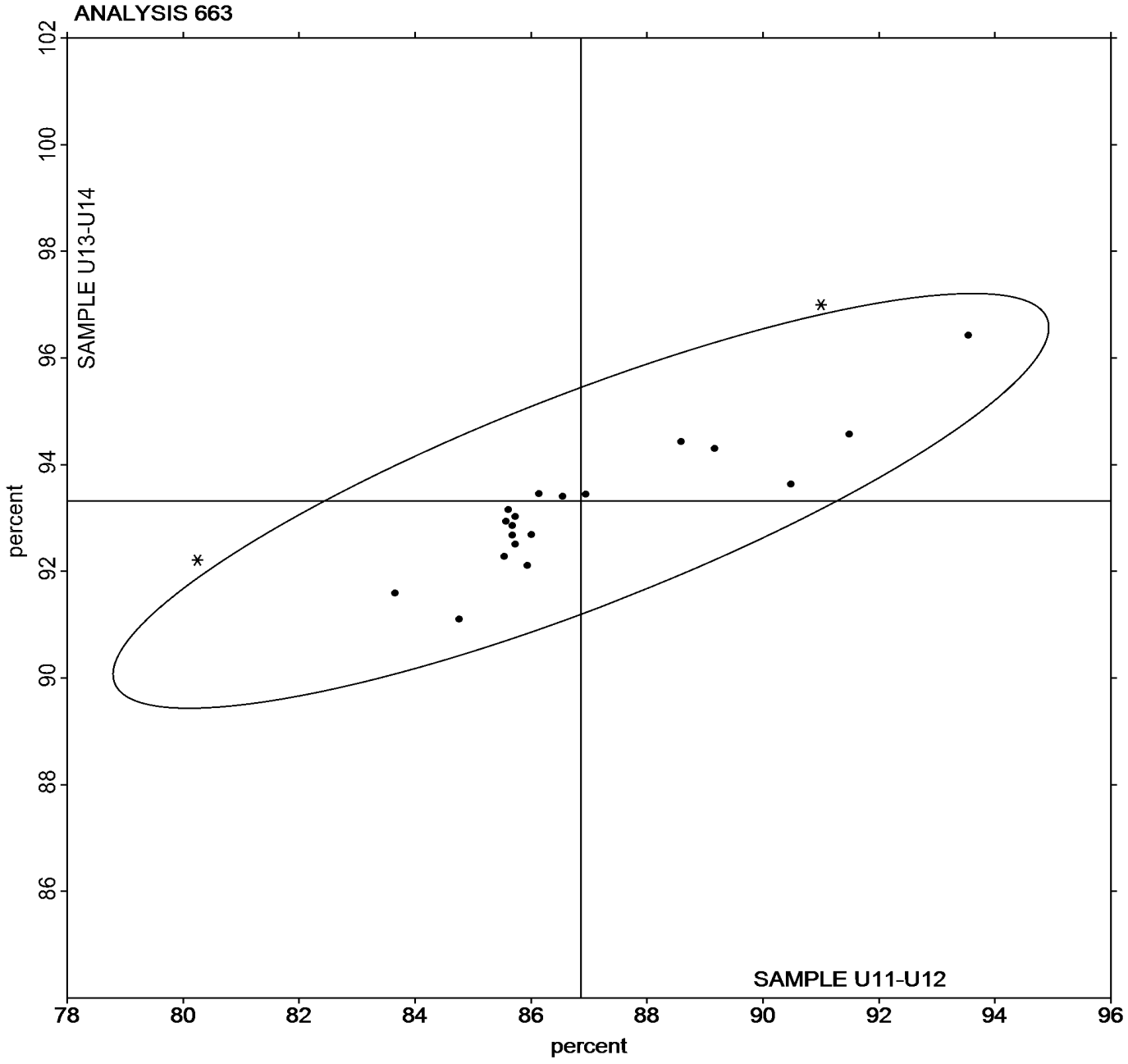
Samples U11-U12: SBR & U13-U14: Butyl

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
TV	Tech Pro Visc Tech (any model)	XX	Instrument make/model not specified by lab

Grand Mean Sample **U11-U12** = 86.860 percent

Grand Mean Sample **U13-U14** = 93.321 percent



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

WebCode	Data Flag	Sample U11-U12 Lab Mean	Sample U11-U12 Diff from Grand Mean	Sample U11-U12 CPV	Sample U13-U14 Lab Mean	Sample U13-U14 Diff from Grand Mean	Sample U13-U14 CPV	Instr Code
23TYJ2		629.5	69.0	0.56	412.7	19.1	0.22	XX
3JU4KH		532.0	-28.5	-0.23	343.3	-50.2	-0.59	MR
3NRMN2		419.9	-140.6	-1.14	387.3	-6.3	-0.07	TV
4EUEEV		597.0	36.5	0.30	383.7	-9.8	-0.12	MR
7Q4V2H		648.0	87.5	0.71	488.6	95.1	1.11	MV
AG3DGQ		697.6	137.1	1.11	498.2	104.7	1.23	ML
AKLMCA		621.1	60.6	0.49	382.2	-11.3	-0.13	MR
DFEDMB		351.1	-209.4	-1.69	319.2	-74.3	-0.87	MZ
EQWEHC		646.7	86.2	0.70	497.8	104.3	1.22	XX
FGLCWB		374.1	-186.4	-1.51	200.7	-192.8	-2.26	MV
GKFTMA		636.8	76.3	0.62	413.5	20.0	0.23	XX
JAWVWW		477.2	-83.3	-0.67	420.4	26.9	0.31	XX
JJ3QY2		681.8	121.3	0.98	532.3	138.8	1.62	MR
LC9K96		649.7	89.2	0.72	434.0	40.4	0.47	MR
MTCEF6		266.0	-294.5	-2.38	214.7	-178.8	-2.09	MV
QCDQDV		661.7	101.2	0.82	453.0	59.5	0.70	MR
QQW8QT		471.5	-89.0	-0.72	333.9	-59.7	-0.70	MV
U2LERT		647.8	87.3	0.71	401.4	7.9	0.09	MR
UADUFW		668.5	108.0	0.87	442.7	49.2	0.58	ML
VH8EZ4		586.5	26.0	0.21	386.2	-7.4	-0.09	MR
ZNF39M		505.9	-54.6	-0.44	318.3	-75.2	-0.88	MV

Summary Statistics

	Sample U11-U12	Sample U13-U14
Grand Means	560.51 M-s	393.53 M-s
Stnd Dev Btwn Labs	123.71 M-s	85.45 M-s

Statistics based on 21 of 21 reporting participants

Samples U11-U12: SBR & U13-U14: Butyl

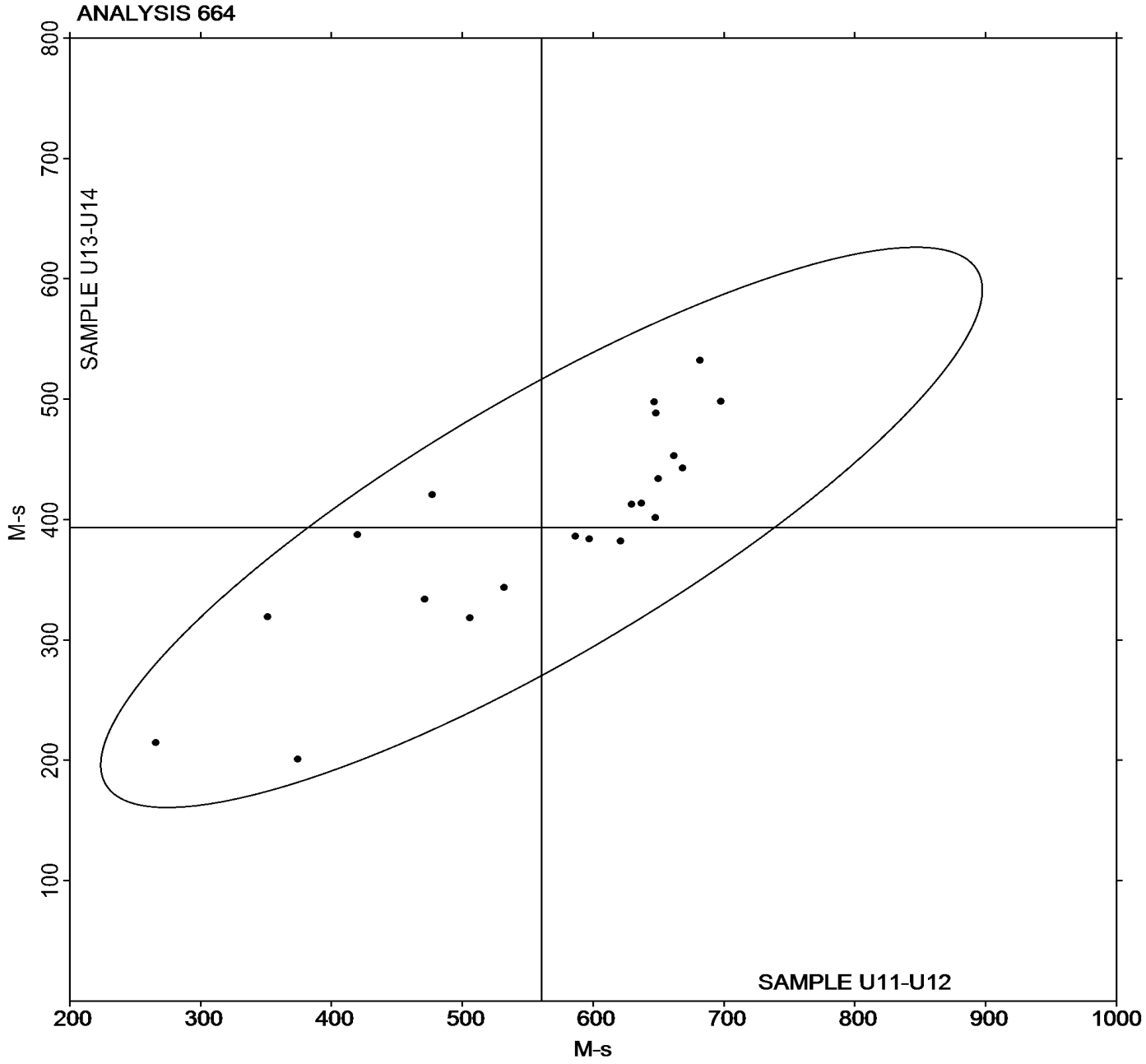
Key to Instrument Codes Reported by Participants

ML	Alpha Technologies/Monsanto model not specified	MR	Alpha Technologies Model MV2000/MV2000E
MV	MonTech	MZ	Rebuilt Mooney Viscometer
TV	Tech Pro Visc Tech (any model)	XX	Instrument make/model not specified by lab

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

Grand Mean Sample **U11-U12** = 560.51 M-s

Grand Mean Sample **U13-U14** = 393.53 M-s



ODR Vulcanization-Cure Time 10% (minutes)

WebCode	Data Flag	Sample Y11-Y12 Lab Mean	Sample Y11-Y12 Diff from Grand Mean	Sample Y11-Y12 CPV	Sample Y13-Y14 Lab Mean	Sample Y13-Y14 Diff from Grand Mean	Sample Y13-Y14 CPV
FWKCV7		2.098	0.393	0.81	3.548	0.765	0.90
LQUXPK		1.808	0.103	0.21	3.078	0.295	0.35
MTCEF6		1.890	0.185	0.38	3.068	0.285	0.34
U66JAN		0.732	-0.974	-1.99	1.133	-1.650	-1.94
UPA3KQ		1.883	0.178	0.36	2.732	-0.052	-0.06
ZNF39M		1.820	0.115	0.23	3.140	0.357	0.42

Summary Statistics

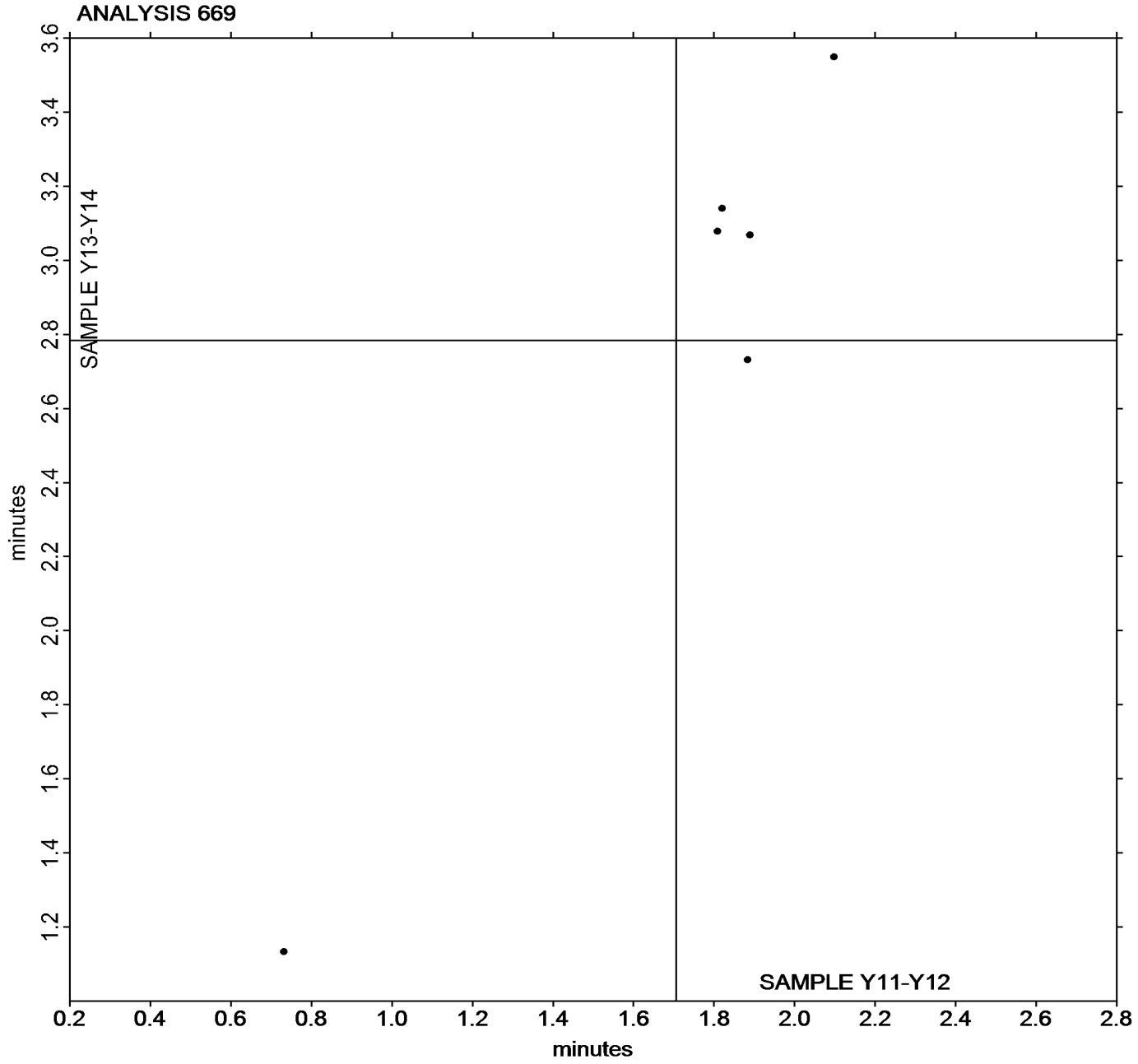
	Sample Y11-Y12	Sample Y13-Y14
Grand Means	1.7053 minutes	2.7833 minutes
Stnd Dev Btwn Labs	0.4883 minutes	0.8492 minutes

Statistics based on 6 of 6 reporting participants

Samples Y11-Y12: EPDM compound, batch #1 & Y13-Y14: EPDM compound, batch #2

Grand Mean Sample **Y11-Y12** = 1.7053 minutes

Grand Mean Sample **Y13-Y14** = 2.7833 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 Y11-Y12 Lab Mean	Sample Y11-Y12 Diff from Grand Mean	Sample Y11-Y12 CPV	Sample Y13-Y14 Lab Mean	Sample Y13-Y14 Diff from Grand Mean	Sample Y13-Y14 CPV
FWKCV7		1.567	0.257	1.25	2.732	0.571	1.26
LQUXPK		1.243	-0.066	-0.32	2.208	0.048	0.11
MTCEF6		1.405	0.096	0.46	2.305	0.144	0.32
U66JAN		0.957	-0.353	-1.72	1.360	-0.801	-1.77
UPA3KQ		1.393	0.084	0.41	2.058	-0.103	-0.23
ZNF39M		1.292	-0.018	-0.09	2.302	0.141	0.31

Summary Statistics

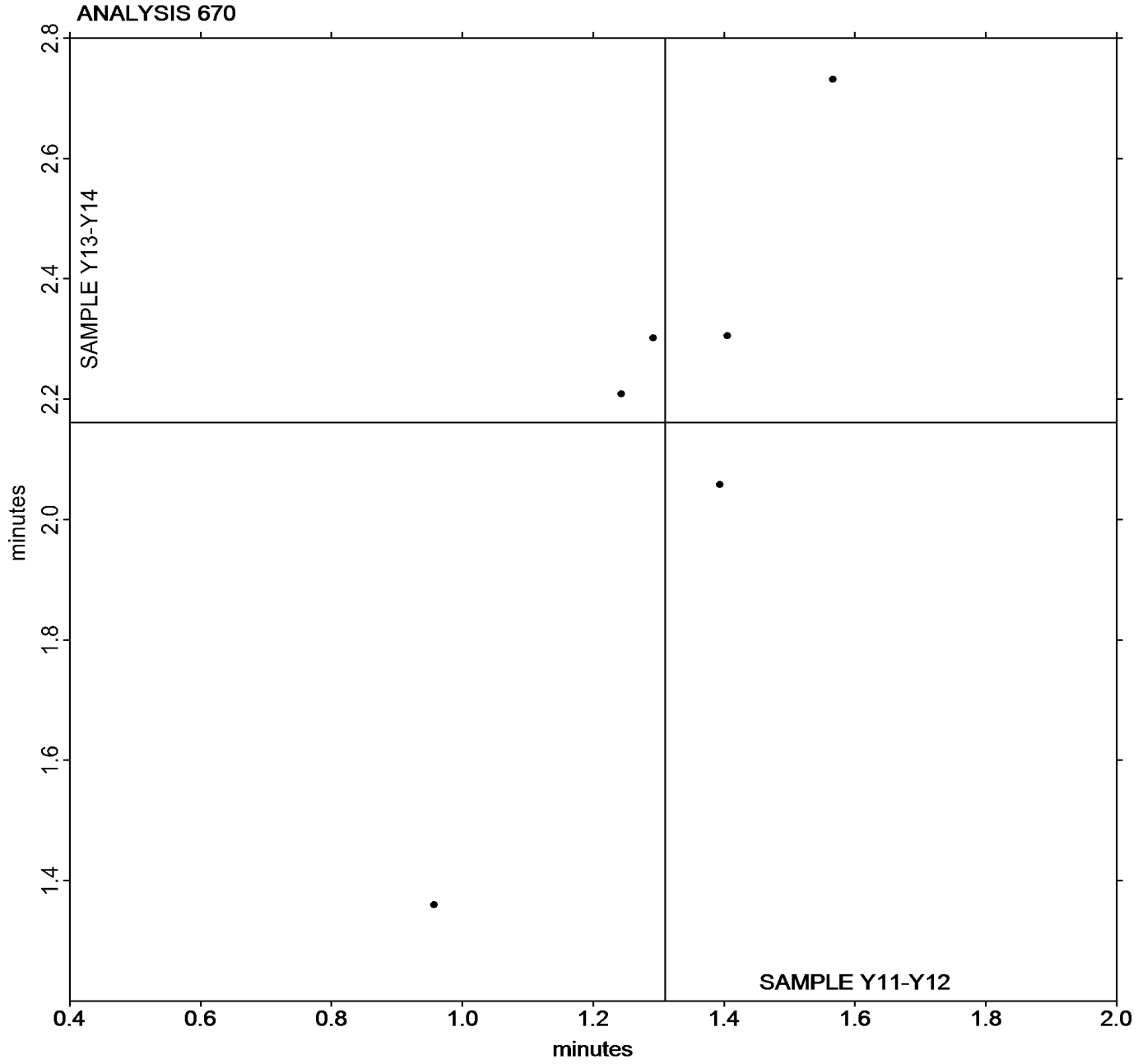
	Sample Y11-Y12	Sample Y13-Y14
Grand Means	1.3094 minutes	2.1608 minutes
Stnd Dev Btwn Labs	0.2057 minutes	0.4518 minutes

Statistics based on 6 of 6 reporting participants

Samples Y11-Y12: EPDM compound, batch #1 & Y13-Y14: EPDM compound, batch #2

Grand Mean Sample **Y11-Y12** = 1.3094 minutes

Grand Mean Sample **Y13-Y14** = 2.1608 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 Y11-Y12 Lab Mean	Diff from Grand Mean	CPV	Sample Y13-Y14 Lab Mean	Diff from Grand Mean	CPV
FWKCV7		3.922	0.632	0.69	6.197	1.034	0.66
LQUXPK		3.630	0.340	0.37	5.702	0.539	0.34
MTCEF6		3.437	0.147	0.16	5.492	0.329	0.21
U66JAN		1.442	-1.848	-2.01	2.005	-3.158	-2.02
UPA3KQ		3.643	0.354	0.39	5.765	0.602	0.39
ZNF39M		3.665	0.375	0.41	5.817	0.654	0.42

Summary Statistics

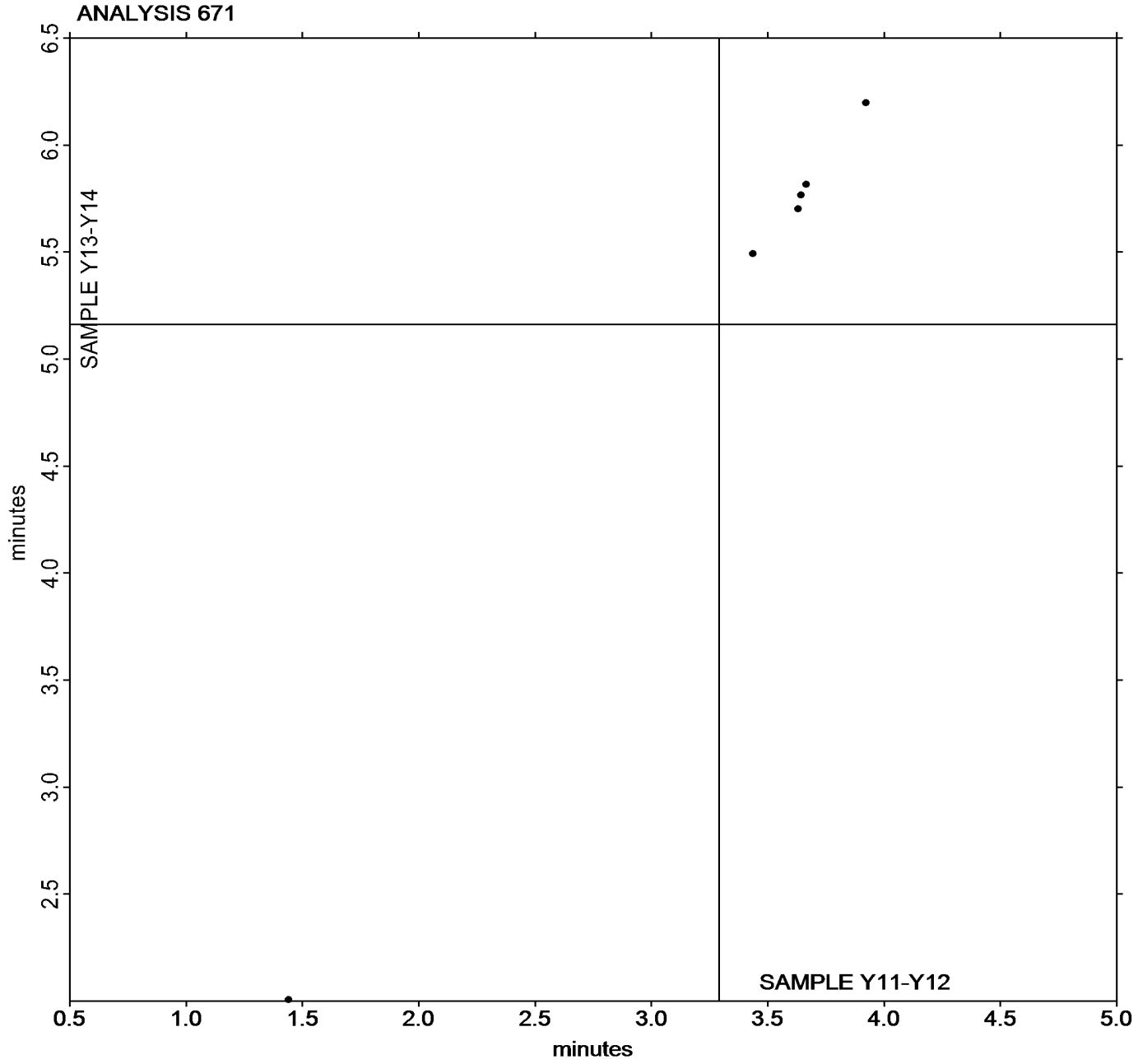
	Sample Y11-Y12	Sample Y13-Y14
Grand Means	3.2897 minutes	5.1628 minutes
Stnd Dev Btwn Labs	0.9185 minutes	1.5639 minutes

Statistics based on 6 of 6 reporting participants

Samples Y11-Y12: EPDM compound, batch #1 & Y13-Y14: EPDM compound, batch #2

Grand Mean Sample **Y11-Y12** = 3.2897 minutes

Grand Mean Sample **Y13-Y14** = 5.1628 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 Y11-Y12 Lab Mean	Diff from Grand Mean	CPV	Sample Y13-Y14 Lab Mean	Diff from Grand Mean	CPV
FWKCV7		14.16	3.11	0.77	12.07	1.85	0.50
LQUXPK		14.27	3.22	0.80	11.09	0.87	0.24
MTCEF6		11.66	0.61	0.15	11.40	1.18	0.32
U66JAN		3.27	-7.77	-1.93	2.77	-7.45	-2.03
UPA3KQ		11.28	0.23	0.06	12.13	1.90	0.52
ZNF39M		11.64	0.59	0.15	11.87	1.65	0.45

Summary Statistics

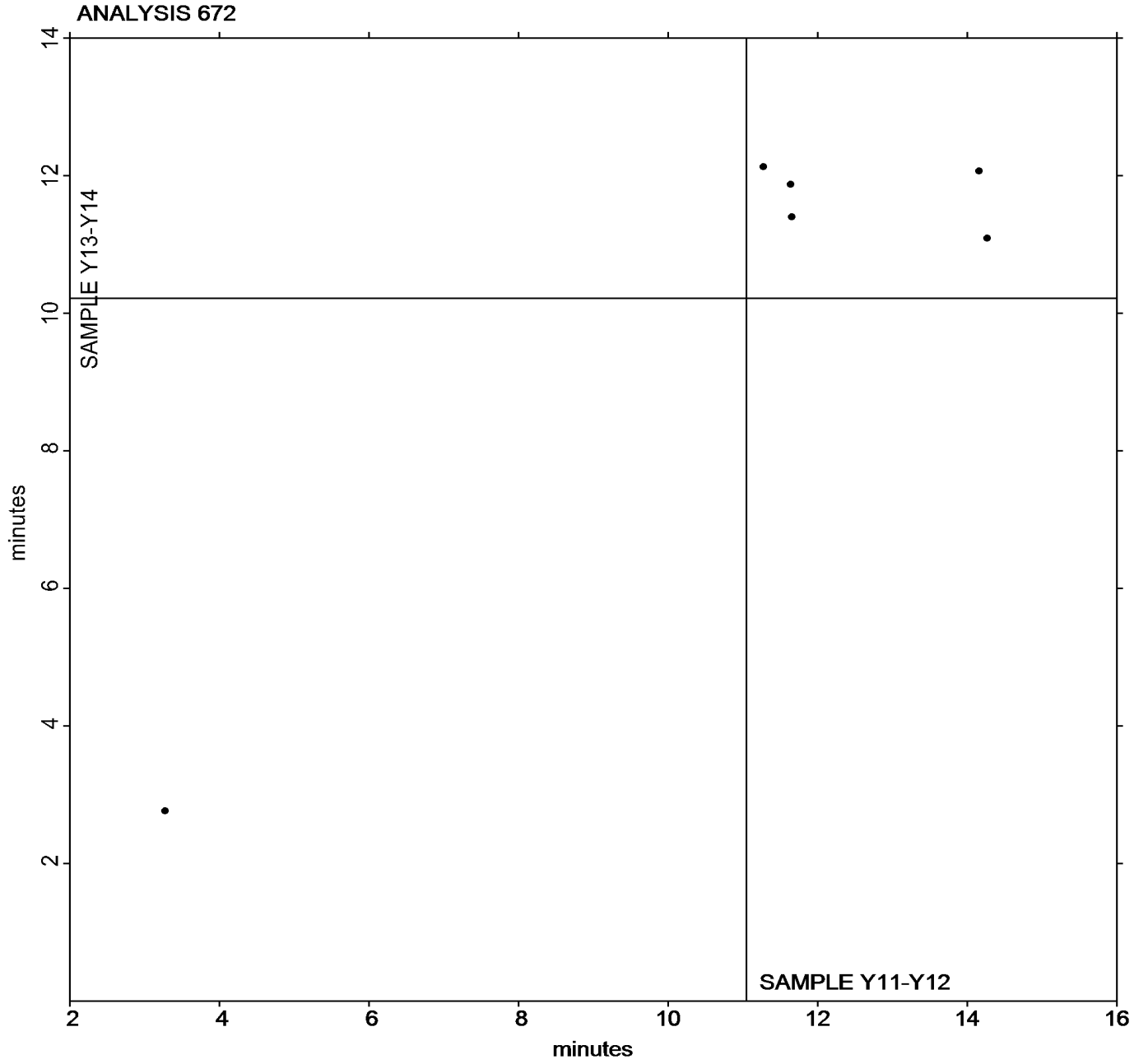
	Sample Y11-Y12	Sample Y13-Y14
Grand Means	11.045 minutes	10.220 minutes
Stnd Dev Btwn Labs	4.031 minutes	3.673 minutes

Statistics based on 6 of 6 reporting participants

Samples Y11-Y12: EPDM compound, batch #1 & Y13-Y14: EPDM compound, batch #2

Grand Mean Sample **Y11-Y12** = 11.045 minutes

Grand Mean Sample **Y13-Y14** = 10.220 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 Y11-Y12 Lab Mean	Sample Y11-Y12 Diff from Grand Mean	Sample Y11-Y12 CPV	Sample Y13-Y14 Lab Mean	Sample Y13-Y14 Diff from Grand Mean	Sample Y13-Y14 CPV
FWKCV7		7.828	0.520	0.36	9.90	-1.18	-0.41
LQUXPK		5.978	-1.330	-0.93	9.65	-1.44	-0.49
MTCEF6		6.073	-1.235	-0.86	8.69	-2.39	-0.82
U66JAN		6.130	-1.179	-0.82	8.75	-2.34	-0.80
UPA3KQ		8.667	1.358	0.95	14.21	3.13	1.08
ZNF39M		9.175	1.866	1.30	15.30	4.22	1.45

Summary Statistics

	Sample Y11-Y12	Sample Y13-Y14
Grand Means	7.3086 lbf.in	11.083 lbf.in
Stnd Dev Btwn Labs	1.4341 lbf.in	2.905 lbf.in

Statistics based on 6 of 6 reporting participants

Summary Statistics in SI Units

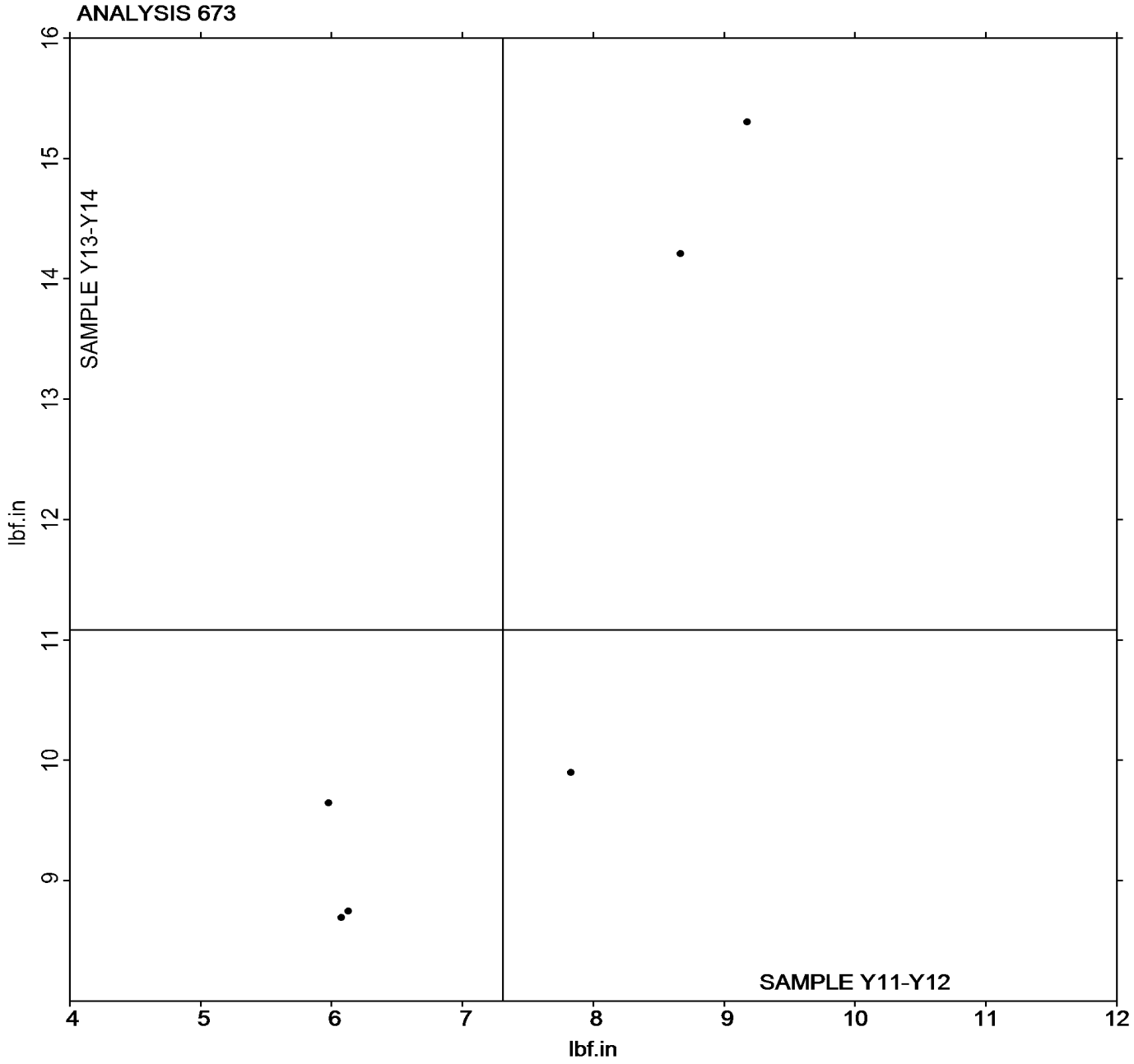
	Sample Y11-Y12	Sample Y13-Y14
Grand Means	8.2576 dN.m	12.522 dN.m
Stnd Dev Btwn Labs	1.6203 dN.m	3.282 dN.m

Statistics based on 6 of 6 reporting participants

Samples Y11-Y12: EPDM compound, batch #1 & Y13-Y14: EPDM compound, batch #2

Grand Mean Sample **Y11-Y12** = 7.3086 lbf.in

Grand Mean Sample **Y13-Y14** = 11.083 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 Y11-Y12 Lab Mean	Sample Y11-Y12 Diff from Grand Mean	Sample Y11-Y12 CPV	Sample Y13-Y14 Lab Mean	Sample Y13-Y14 Diff from Grand Mean	Sample Y13-Y14 CPV
FWKCV7		42.60	-2.71	-1.21	36.20	-3.06	-0.77
LQUXPK		48.39	3.09	1.38	40.38	1.12	0.28
MTCEF6		44.86	-0.45	-0.20	36.31	-2.95	-0.74
U66JAN		45.88	0.57	0.26	35.13	-4.13	-1.04
UPA3KQ		43.10	-2.21	-0.98	44.68	5.43	1.37
ZNF39M		47.00	1.69	0.76	42.84	3.58	0.90

Summary Statistics

	Sample Y11-Y12	Sample Y13-Y14
Grand Means	45.304 lbf.in	39.258 lbf.in
Stnd Dev Btwn Labs	2.241 lbf.in	3.966 lbf.in

Statistics based on 6 of 6 reporting participants

Summary Statistics in SI Units

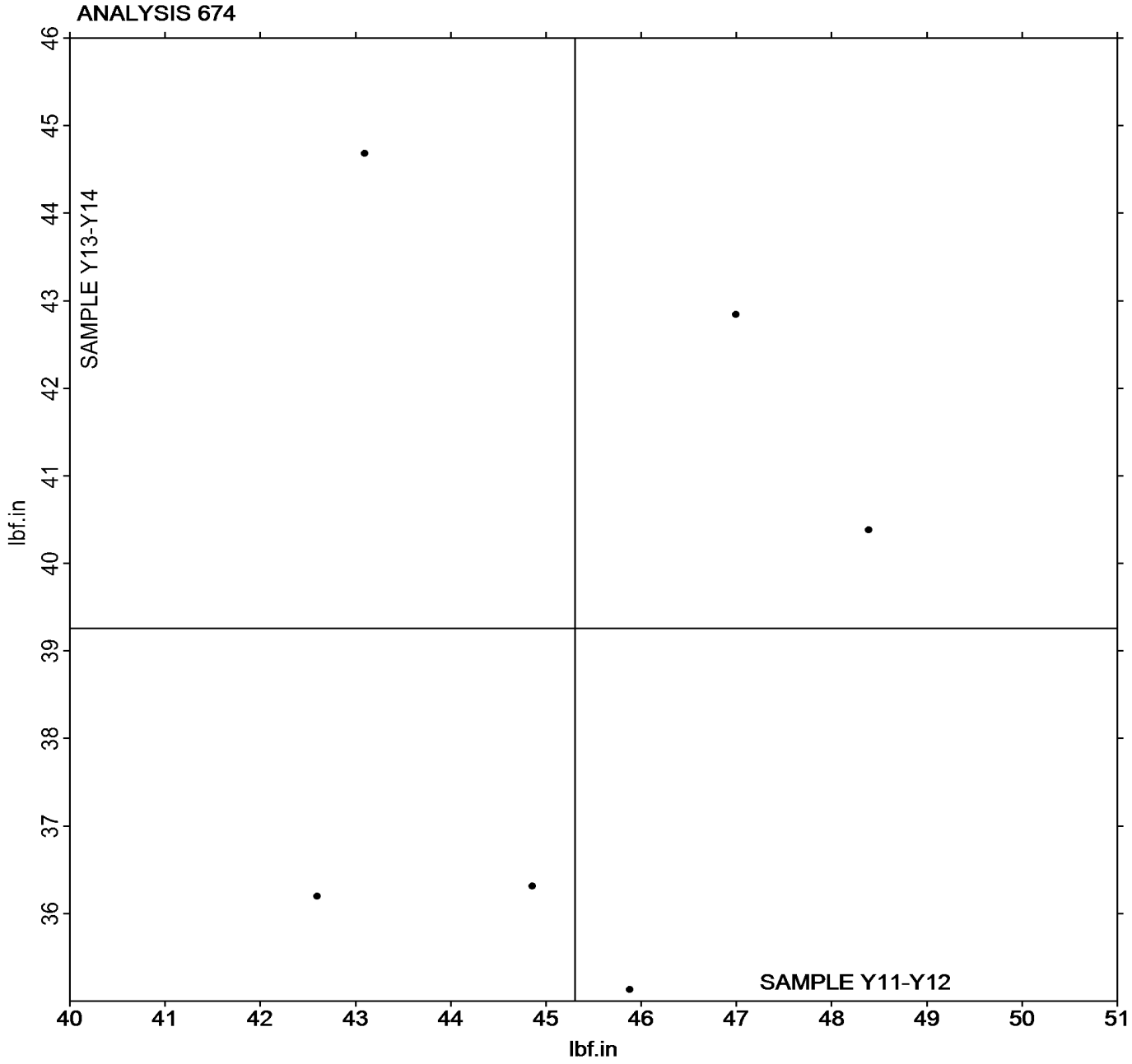
	Sample Y11-Y12	Sample Y13-Y14
Grand Means	51.186 dN.m	44.355 dN.m
Stnd Dev Btwn Labs	2.532 dN.m	4.480 dN.m

Statistics based on 6 of 6 reporting participants

Samples Y11-Y12: EPDM compound, batch #1 & Y13-Y14: EPDM compound, batch #2

Grand Mean Sample **Y11-Y12** = 45.304 lbf.in

Grand Mean Sample **Y13-Y14** = 39.258 lbf.in



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

MDR Vulcanization-Cure Time 10% (minutes)

WebCode	Data Flag	Sample Y15-Y16 Lab Mean	Sample Y15-Y16 Diff from Grand Mean	Sample Y15-Y16 CPV	Sample Y17-Y18 Lab Mean	Sample Y17-Y18 Diff from Grand Mean	Sample Y17-Y18 CPV	Instr Code
27TBF2		2.432	0.148	1.49	2.658	0.126	1.35	MC
2NRHFK		2.202	-0.082	-0.83	2.525	-0.008	-0.08	ME
2X3K2L		2.238	-0.045	-0.46	2.543	0.011	0.11	MC
3JU4KH		2.352	0.068	0.68	2.592	0.059	0.64	MC
3NRMN2		2.358	0.075	0.75	2.673	0.141	1.51	MM
469B9G		2.445	0.161	1.62	2.720	0.187	2.02	MP
4EUEEV		2.390	0.106	1.07	2.652	0.119	1.28	ME
7Q4V2H		2.362	0.078	0.78	2.610	0.077	0.83	MM
7XJFKH		2.183	-0.100	-1.01	2.458	-0.074	-0.80	MC
7XL32V		2.352	0.068	0.68	2.523	-0.009	-0.10	MC
AG3DGQ		2.277	-0.007	-0.07	2.521	-0.011	-0.12	MM
AKLMCA		2.308	0.025	0.25	2.547	0.014	0.15	MC
ATZDUU		2.080	-0.204	-2.05	2.442	-0.091	-0.98	MD
B9AMAN		2.240	-0.044	-0.44	2.493	-0.039	-0.42	ME
CBCZC9		2.102	-0.182	-1.83	2.340	-0.193	-2.07	MM
CLTUJU		2.433	0.150	1.51	2.747	0.214	2.30	XX
DFEDMB		2.138	-0.145	-1.46	2.347	-0.186	-2.00	MX
DP6YTA		2.508	0.225	2.26	2.675	0.142	1.53	MC
EQWEHC		2.403	0.120	1.20	2.587	0.054	0.58	ME
FGLCWB		2.290	0.006	0.06	2.545	0.012	0.13	MC
FWKCV7		2.343	0.060	0.60	2.625	0.092	0.99	MC
GBVEMD		2.173	-0.110	-1.11	2.482	-0.051	-0.55	MC
GJA4LL		2.277	-0.007	-0.07	2.490	-0.043	-0.46	ME
GKFTMA		2.167	-0.117	-1.18	2.492	-0.041	-0.44	XX
GUTKC8		2.213	-0.070	-0.71	2.373	-0.159	-1.72	MD
KCXFYM		2.170	-0.114	-1.14	2.490	-0.043	-0.46	MC
LC9K96		2.328	0.045	0.45	2.492	-0.041	-0.44	XX
LJBRRE		2.275	-0.009	-0.09	2.481	-0.052	-0.56	MC
LQUXPK		2.223	-0.060	-0.61	2.482	-0.051	-0.55	MC
LZVHM8		2.370	0.086	0.87	2.643	0.110	1.18	MC
MTCEF6		2.230	-0.054	-0.54	2.498	-0.034	-0.37	MM
QCDQDV		2.247	-0.037	-0.37	2.510	-0.023	-0.24	MC
QQW8QT		2.183	-0.100	-1.01	2.460	-0.073	-0.78	MR
U2LERT		2.368	0.085	0.85	2.542	0.009	0.10	MC
UADUFW		2.238	-0.045	-0.46	2.460	-0.073	-0.78	ME
VH8EZ4		2.175	-0.109	-1.09	2.458	-0.074	-0.80	MD
VNQG6K		2.273	-0.010	-0.10	2.485	-0.048	-0.51	MP

MDR Vulcanization-Cure Time 10% (minutes)

WebCode	Data Flag	Sample Y15-Y16 Lab Mean	Sample Y15-Y16 Diff from Grand Mean	Sample Y15-Y16 CPV	Sample Y17-Y18 Lab Mean	Sample Y17-Y18 Diff from Grand Mean	Sample Y17-Y18 CPV	Instr Code
VQJDRU		2.392	0.108	1.09	2.570	0.037	0.40	MC
WG4XGB		2.260	-0.024	-0.24	2.465	-0.068	-0.73	MR
YC6ED4		2.308	0.025	0.25	2.617	0.084	0.90	MC
ZNF39M		2.323	0.040	0.40	2.528	-0.004	-0.05	XX

Summary Statistics

	Sample Y15-Y16	Sample Y17-Y18
Grand Means	2.2837 minutes	2.5327 minutes
Stnd Dev Btwn Labs	0.0994 minutes	0.0929 minutes

Statistics based on 41 of 41 reporting participants

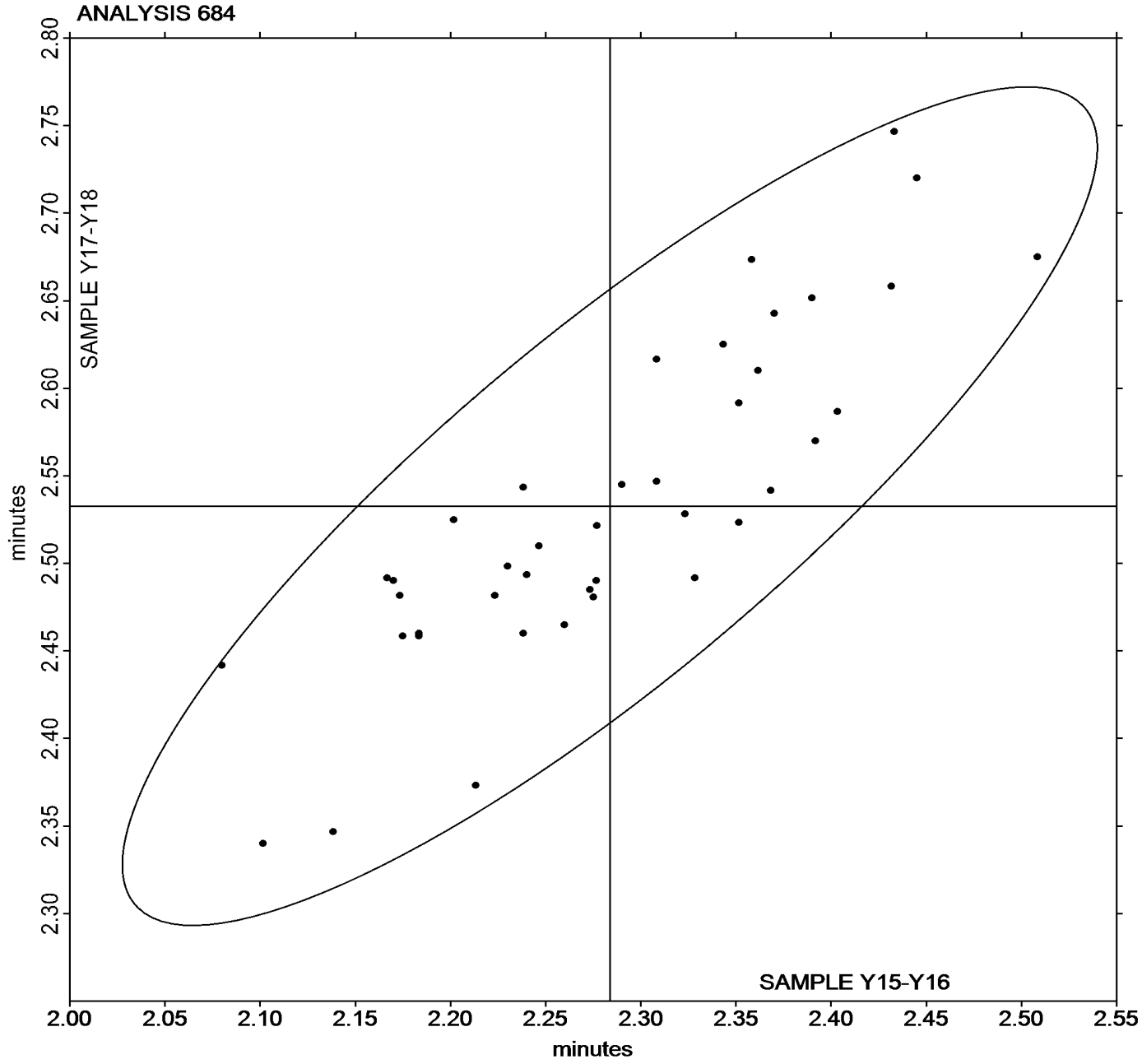
Samples Y15-Y16: EPDM compound, batch #1 & Y17-Y18: EPDM compound, batch #2

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 **Y15-Y16** = 2.2837 minutes

Grand Mean Sample **Y17-Y18** = 2.5327 minutes



WebCode	Data Flag	Sample Y15-Y16 Lab Mean	Diff from Grand Mean	CPV	Sample Y17-Y18 Lab Mean	Diff from Grand Mean	CPV	Instr Code
23TYJ2		2.051	-0.168	-1.30	2.077	-0.260	-1.82	MC
27TBF2		2.340	0.121	0.94	2.457	0.120	0.84	MC
2NRHFK		2.223	0.004	0.03	2.388	0.051	0.36	ME
2X3K2L		2.293	0.074	0.58	2.438	0.101	0.71	MC
3JU4KH		2.217	-0.002	-0.02	2.347	0.010	0.07	MC
3NRMN2		2.440	0.221	1.71	2.573	0.236	1.66	MM
469B9G		2.447	0.228	1.76	2.542	0.205	1.43	MC
4EUEEV		2.207	-0.012	-0.09	2.297	-0.040	-0.28	ME
4VM843		2.252	0.033	0.25	2.410	0.073	0.51	MC
7Q4V2H		2.185	-0.034	-0.26	2.302	-0.035	-0.25	MM
7R2WBG	X	1.953	-0.266	-2.06	2.323	-0.014	-0.10	XX
7XJFKH		1.971	-0.247	-1.92	2.047	-0.290	-2.03	MC
7XL32V		2.323	0.104	0.81	2.318	-0.019	-0.13	MC
8XHYPW		1.998	-0.221	-1.71	2.095	-0.242	-1.70	MC
AG3DGQ		2.241	0.022	0.17	2.450	0.113	0.79	MM
AKLMCA		2.147	-0.072	-0.56	2.183	-0.154	-1.08	MC
ATZDUU	X	2.072	-0.147	-1.14	2.418	0.081	0.57	MD
B9AMAN		2.125	-0.094	-0.73	2.228	-0.109	-0.76	ME
CBCZC9		2.118	-0.101	-0.78	2.298	-0.039	-0.27	MM
CLTUJU		2.237	0.018	0.14	2.365	0.028	0.20	XX
DFEDMB		1.970	-0.249	-1.93	2.008	-0.329	-2.30	MX
DP6YTA	*	2.486	0.267	2.07	2.517	0.180	1.26	MC
EQWEHC		2.350	0.131	1.02	2.432	0.095	0.66	ME
FGLCWB		2.227	0.008	0.06	2.340	0.003	0.02	MC
FWKCV7		2.267	0.048	0.37	2.387	0.050	0.35	MC
GBVEMD		2.195	-0.024	-0.18	2.397	0.060	0.42	MC
GJA4LL		2.258	0.039	0.31	2.353	0.016	0.11	ME
GKFTMA	*	2.152	-0.067	-0.52	2.405	0.068	0.48	XX
GUTKC8		2.155	-0.064	-0.49	2.250	-0.087	-0.61	MD
KCXFYM		2.120	-0.099	-0.77	2.215	-0.122	-0.86	MC
LC9K96		2.158	-0.061	-0.47	2.295	-0.042	-0.30	MD
LJBRRE		2.281	0.062	0.48	2.372	0.035	0.25	MC
LQUXPK		2.278	0.059	0.46	2.457	0.120	0.84	MC
LZVHM8		2.320	0.101	0.78	2.455	0.118	0.83	MC
MTCEF6		2.272	0.053	0.41	2.413	0.076	0.53	MM
PZA27V		1.977	-0.242	-1.88	2.083	-0.254	-1.78	MR
QCDQDV		2.282	0.063	0.49	2.478	0.141	0.99	MC
QQW8QT	X	2.895	0.676	5.24	3.110	0.773	5.42	MR

MDR Vulcanization-Scorch Time, Ts1 (minutes)

WebCode	Data Flag	Sample Y15-Y16 Lab Mean	Diff from Grand Mean	CPV	Sample Y17-Y18 Lab Mean	Diff from Grand Mean	CPV	Instr Code
U2LERT		2.280	0.061	0.47	2.417	0.080	0.56	MC
UADUFW		2.107	-0.112	-0.87	2.300	-0.037	-0.26	ME
VH8EZ4		2.167	-0.052	-0.40	2.267	-0.070	-0.49	MD
VNQG6K		2.103	-0.116	-0.89	2.163	-0.174	-1.22	MP
VQJDRU		2.380	0.161	1.25	2.457	0.120	0.84	MC
WG4XGB		2.160	-0.059	-0.46	2.248	-0.089	-0.62	MR
YC6ED4		2.157	-0.062	-0.48	2.332	-0.005	-0.04	MC
ZNF39M		2.497	0.278	2.15	2.640	0.303	2.12	XX

Summary Statistics

	Sample Y15-Y16	Sample Y17-Y18
Grand Means	2.2189 minutes	2.3371 minutes
Stnd Dev Btwn Labs	0.1291 minutes	0.1427 minutes

Statistics based on 43 of 46 reporting participants

Samples Y15-Y16: EPDM compound, batch #1 & Y17-Y18: EPDM compound, batch #2

Comments on Assigned Data Flags for Test #685

7R2WBG (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample group Y15-Y16.

ATZDUU (X) - Inconsistent in testing between samples.

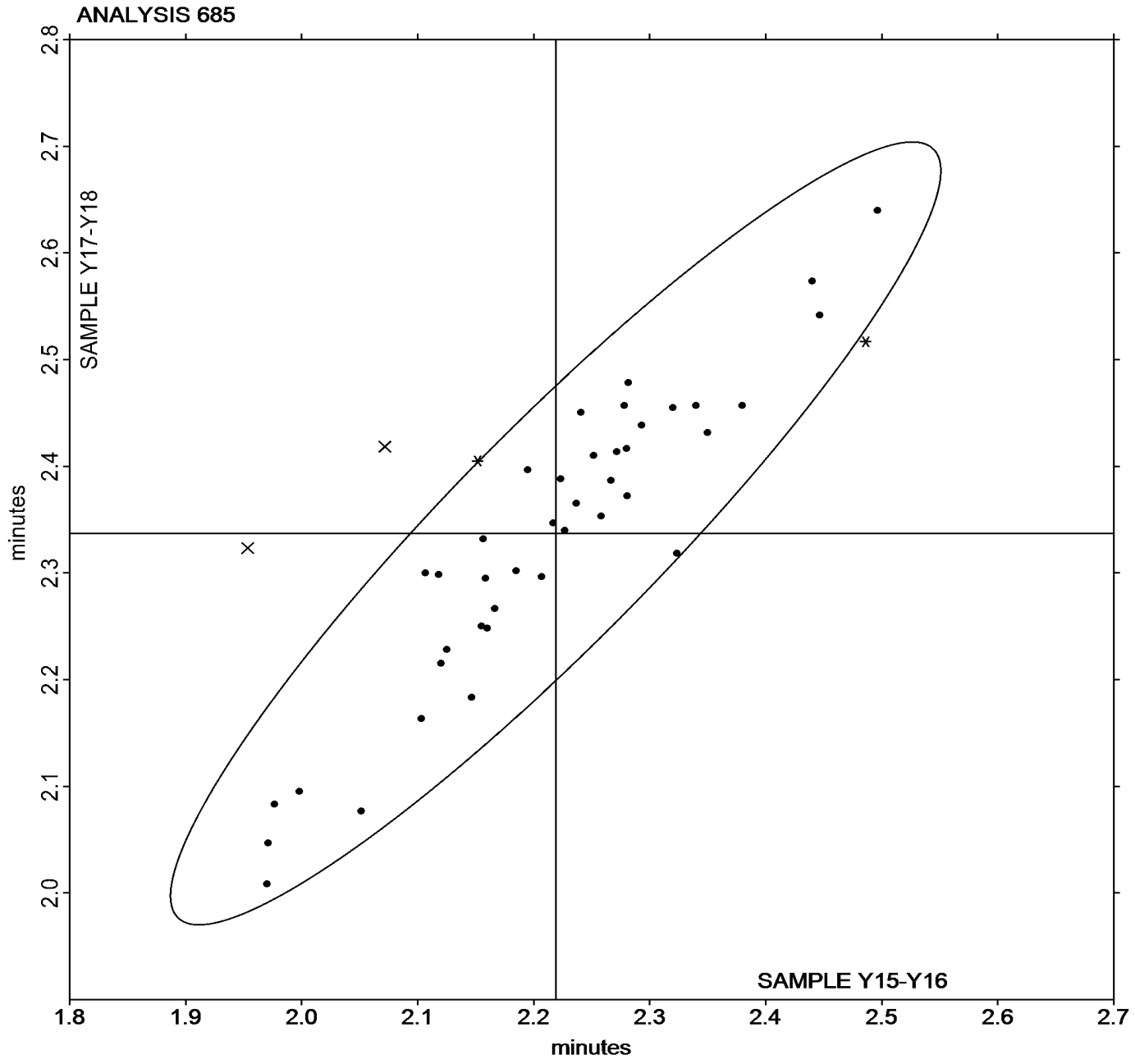
QQW8QT (X) - Data for all samples are high. Possible Systematic Error.

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 **Y15-Y16** = 2.2189 minutes

Grand Mean Sample **Y17-Y18** = 2.3371 minutes



WebCode	Data Flag	Sample Y15-Y16 Lab Mean	Diff from Grand Mean	CPV	Sample Y17-Y18 Lab Mean	Diff from Grand Mean	CPV	Instr Code
23TYJ2		5.170	0.143	0.73	5.756	0.124	0.52	MC
27TBF2		5.278	0.252	1.28	5.867	0.234	0.99	MC
2NRHFK		4.902	-0.124	-0.63	5.757	0.124	0.52	ME
2X3K2L		5.038	0.012	0.06	5.870	0.238	1.00	MC
3JU4KH		5.110	0.084	0.42	5.683	0.051	0.22	MC
3NRMN2		5.050	0.024	0.12	5.817	0.184	0.78	MM
469B9G		5.447	0.421	2.13	6.133	0.501	2.11	MC
4EUEEV		5.197	0.171	0.86	5.928	0.296	1.25	ME
4VM843		4.982	-0.044	-0.22	5.417	-0.216	-0.91	MC
7Q4V2H		5.282	0.256	1.29	5.918	0.286	1.21	MM
7R2WBG	X	4.380	-0.646	-3.27	5.222	-0.411	-1.73	XX
7XJFKH		4.983	-0.043	-0.22	5.712	0.079	0.34	MC
7XL32V		5.158	0.132	0.67	5.693	0.061	0.26	MC
8XHYPW		4.678	-0.348	-1.76	5.288	-0.344	-1.45	MC
AG3DGQ		5.144	0.118	0.60	5.753	0.121	0.51	MM
AKLMCA		5.188	0.162	0.82	5.907	0.274	1.16	MC
ATZDUU	*	4.470	-0.556	-2.81	4.952	-0.681	-2.87	MD
B9AMAN		4.967	-0.059	-0.30	5.620	-0.012	-0.05	ME
CBCZC9		4.753	-0.273	-1.38	5.122	-0.511	-2.15	MM
CLTUJU	X	5.533	0.507	2.57	6.552	0.919	3.88	XX
DFEDMB		4.748	-0.278	-1.41	5.303	-0.329	-1.39	MX
DP6YTA		5.272	0.246	1.25	5.808	0.176	0.74	MC
EQWEHC		5.403	0.377	1.91	5.932	0.299	1.26	ME
FGLCWB		5.142	0.116	0.58	5.755	0.123	0.52	MC
FWKCV7		5.187	0.161	0.81	5.930	0.298	1.26	MC
GBVEMD		4.805	-0.221	-1.12	5.533	-0.099	-0.42	MC
GJA4LL		5.060	0.034	0.17	5.597	-0.036	-0.15	ME
GKFTMA		4.768	-0.258	-1.30	5.350	-0.282	-1.19	XX
GUTKC8		4.935	-0.091	-0.46	5.388	-0.244	-1.03	MD
KCXFYM		4.905	-0.121	-0.61	5.780	0.148	0.62	MC
LC9K96		5.083	0.057	0.29	5.588	-0.044	-0.19	MD
LJBRRE		5.070	0.043	0.22	5.561	-0.071	-0.30	MC
LQUXPK		4.887	-0.139	-0.71	5.483	-0.149	-0.63	MC
LZVHM8		5.245	0.219	1.11	5.847	0.214	0.90	MC
MTCEF6		4.870	-0.156	-0.79	5.518	-0.114	-0.48	MM
PZA27V		4.922	-0.104	-0.53	5.400	-0.232	-0.98	MR
QCDQDV		4.880	-0.146	-0.74	5.400	-0.232	-0.98	MC
QQW8QT		4.953	-0.073	-0.37	5.707	0.074	0.31	MR

MDR Vulcanization-Cure Time 50% (minutes)

WebCode	Data Flag	Sample Y15-Y16 Lab Mean	Sample Y15-Y16 Diff from Grand Mean	Sample Y15-Y16 CPV	Sample Y17-Y18 Lab Mean	Sample Y17-Y18 Diff from Grand Mean	Sample Y17-Y18 CPV	Instr Code
U2LERT		5.258	0.232	1.17	5.620	-0.012	-0.05	MC
UADUFW		4.918	-0.108	-0.55	5.592	-0.041	-0.17	ME
VH8EZ4		4.888	-0.138	-0.70	5.542	-0.091	-0.38	MD
VNQG6K		4.982	-0.044	-0.22	5.630	-0.002	-0.01	MC
VQJDRU		5.228	0.202	1.02	5.750	0.118	0.50	MC
WG4XGB		4.943	-0.083	-0.42	5.428	-0.204	-0.86	MR
YC6ED4		5.037	0.011	0.05	5.755	0.123	0.52	MC
ZNF39M		4.960	-0.066	-0.33	5.428	-0.204	-0.86	XX

Summary Statistics

	Sample Y15-Y16	Sample Y17-Y18
Grand Means	5.0261 minutes	5.6322 minutes
Stnd Dev Btwn Labs	0.1977 minutes	0.2371 minutes

Statistics based on 44 of 46 reporting participants

Samples Y15-Y16: EPDM compound, batch #1 & Y17-Y18: EPDM compound, batch #2

Comments on Assigned Data Flags for Test #686

7R2WBG (X) - Inconsistent in testing bewteen samples, data for sample group Y15-Y16 are low. Inconsistent within the determinations of sample group Y15-Y16.

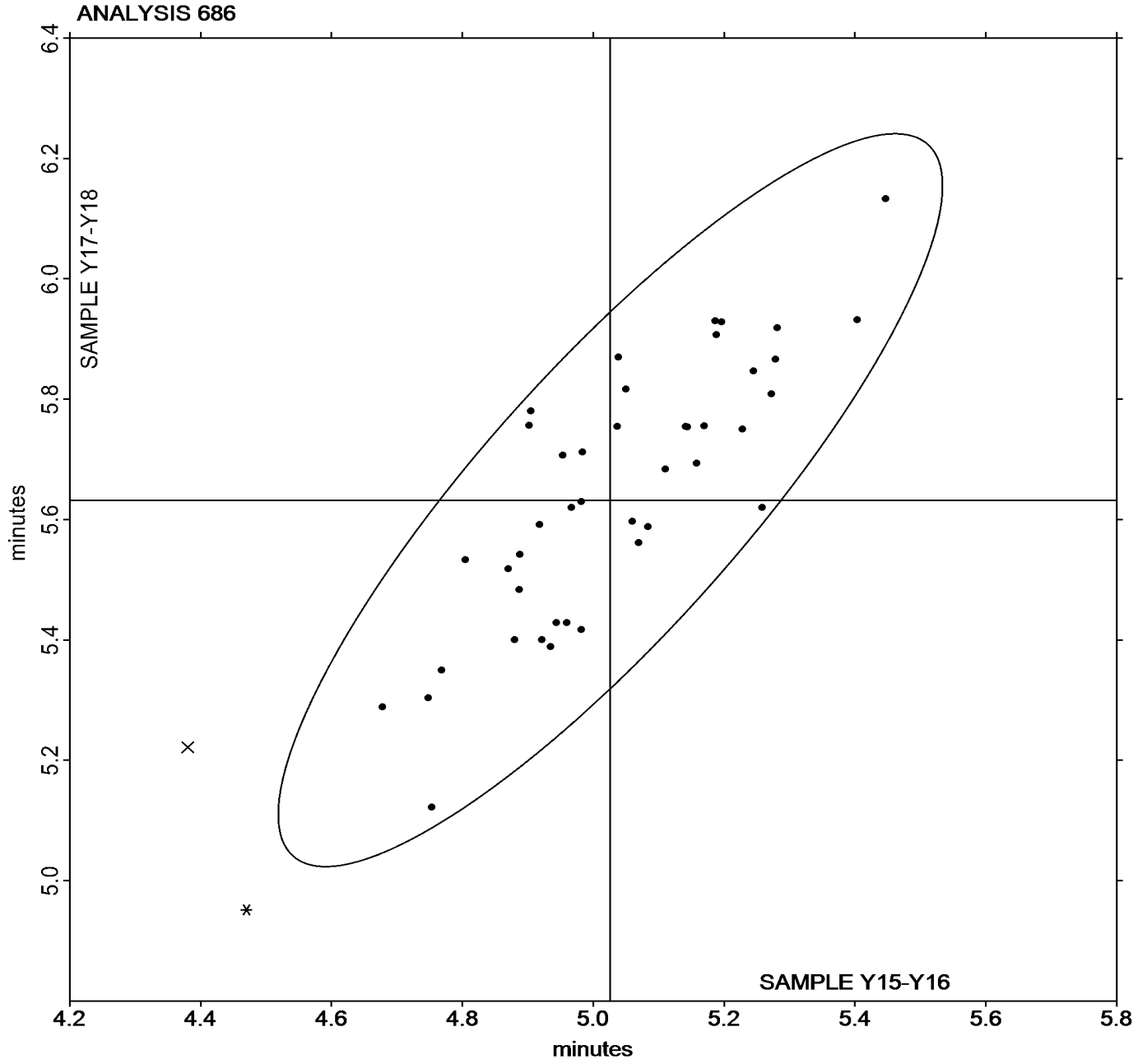
CLTUJU (X) - Inconsistent in testing bewteen samples, data for sample group Y17-Y18 are high.

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 **Y15-Y16** = 5.0261 minutes

Grand Mean Sample **Y17-Y18** = 5.6322 minutes



WebCode	Data Flag	Sample Y15-Y16 Lab Mean	Diff from Grand Mean	CPV	Sample Y17-Y18 Lab Mean	Diff from Grand Mean	CPV	Instr Code
23TYJ2		8.465	0.055	0.14	9.344	0.188	0.55	MC
27TBF2		8.927	0.517	1.32	9.452	0.296	0.87	MC
2NRHFK		8.015	-0.395	-1.01	9.022	-0.134	-0.39	ME
2X3K2L		8.318	-0.091	-0.23	9.285	0.129	0.38	MC
3JU4KH		8.482	0.072	0.18	9.162	0.006	0.02	MC
3NRMN2		8.338	-0.071	-0.18	9.295	0.139	0.41	MM
469B9G		9.025	0.615	1.58	9.875	0.719	2.11	MC
4EUEEV		8.667	0.257	0.66	9.463	0.308	0.90	ME
4VM843		8.432	0.022	0.06	8.903	-0.252	-0.74	MC
7Q4V2H	*	9.240	0.830	2.13	10.063	0.908	2.66	MM
7R2WBG	*	7.450	-0.960	-2.46	8.773	-0.382	-1.12	XX
7XJFKH		8.179	-0.230	-0.59	9.161	0.005	0.02	MC
7XL32V		8.382	-0.028	-0.07	9.007	-0.149	-0.44	MC
8XHYPW		7.983	-0.426	-1.09	8.655	-0.501	-1.47	MC
AG3DGQ		8.643	0.233	0.60	9.277	0.121	0.35	MM
AKLMCA		8.472	0.062	0.16	9.445	0.289	0.85	MC
ATZDUU		7.827	-0.583	-1.49	8.563	-0.592	-1.74	MD
B9AMAN		8.312	-0.098	-0.25	9.115	-0.041	-0.12	ME
CBCZC9		8.527	0.117	0.30	9.155	-0.001	0.00	MM
CLTUJU	X	9.630	1.220	3.12	10.640	1.484	4.35	XX
DFEDMB		7.833	-0.576	-1.48	8.647	-0.509	-1.49	MX
DP6YTA		8.645	0.235	0.60	9.172	0.017	0.05	MC
EQWEHC		9.038	0.629	1.61	9.637	0.481	1.41	ME
FGLCWB		8.812	0.402	1.03	9.518	0.363	1.06	MC
FWKCV7		8.472	0.062	0.16	9.403	0.248	0.73	MC
GBVEMD		7.890	-0.520	-1.33	8.737	-0.419	-1.23	MC
GJA4LL		8.605	0.195	0.50	9.242	0.086	0.25	ME
GKFTMA		8.245	-0.165	-0.42	8.932	-0.224	-0.66	XX
GUTKC8		8.302	-0.108	-0.28	8.808	-0.347	-1.02	MD
KCXFYM		7.825	-0.585	-1.50	8.975	-0.181	-0.53	MC
LC9K96		8.718	0.309	0.79	9.190	0.034	0.10	MD
LJBRRE		8.586	0.177	0.45	9.245	0.089	0.26	MC
LQUXPK		8.393	-0.016	-0.04	9.203	0.048	0.14	MC
LZVHM8		8.946	0.536	1.37	9.803	0.647	1.90	MC
MTCEF6		7.763	-0.646	-1.65	8.510	-0.646	-1.89	MM
PZA27V		8.487	0.077	0.20	8.872	-0.284	-0.83	MR
QCDQDV		8.120	-0.290	-0.74	8.837	-0.319	-0.93	MC
QQW8QT		8.108	-0.301	-0.77	9.023	-0.132	-0.39	MR

MDR Vulcanization-Cure Time 90% (minutes)

WebCode	Data Flag	Sample Y15-Y16 Lab Mean	Sample Y15-Y16 Diff from Grand Mean	Sample Y15-Y16 CPV	Sample Y17-Y18 Lab Mean	Sample Y17-Y18 Diff from Grand Mean	Sample Y17-Y18 CPV	Instr Code
U2LERT		8.945	0.535	1.37	9.350	0.194	0.57	MC
UADUFW		8.403	-0.006	-0.02	8.918	-0.237	-0.70	ME
VH8EZ4		8.252	-0.158	-0.40	9.108	-0.047	-0.14	MD
VNQG6K		8.253	-0.156	-0.40	9.137	-0.019	-0.06	MP
VQJDRU		9.128	0.719	1.84	9.695	0.539	1.58	MC
WG4XGB		8.423	0.014	0.04	9.020	-0.136	-0.40	MR
YC6ED4		8.185	-0.225	-0.57	9.077	-0.079	-0.23	MC
ZNF39M		8.368	-0.041	-0.11	8.932	-0.224	-0.66	XX

Summary Statistics

	Sample Y15-Y16	Sample Y17-Y18
Grand Means	8.4095 minutes	9.1557 minutes
Stnd Dev Btwn Labs	0.3906 minutes	0.3413 minutes

Statistics based on 45 of 46 reporting participants

Samples Y15-Y16: EPDM compound, batch #1 & Y17-Y18: EPDM compound, batch #2

Comments on Assigned Data Flags for Test #687

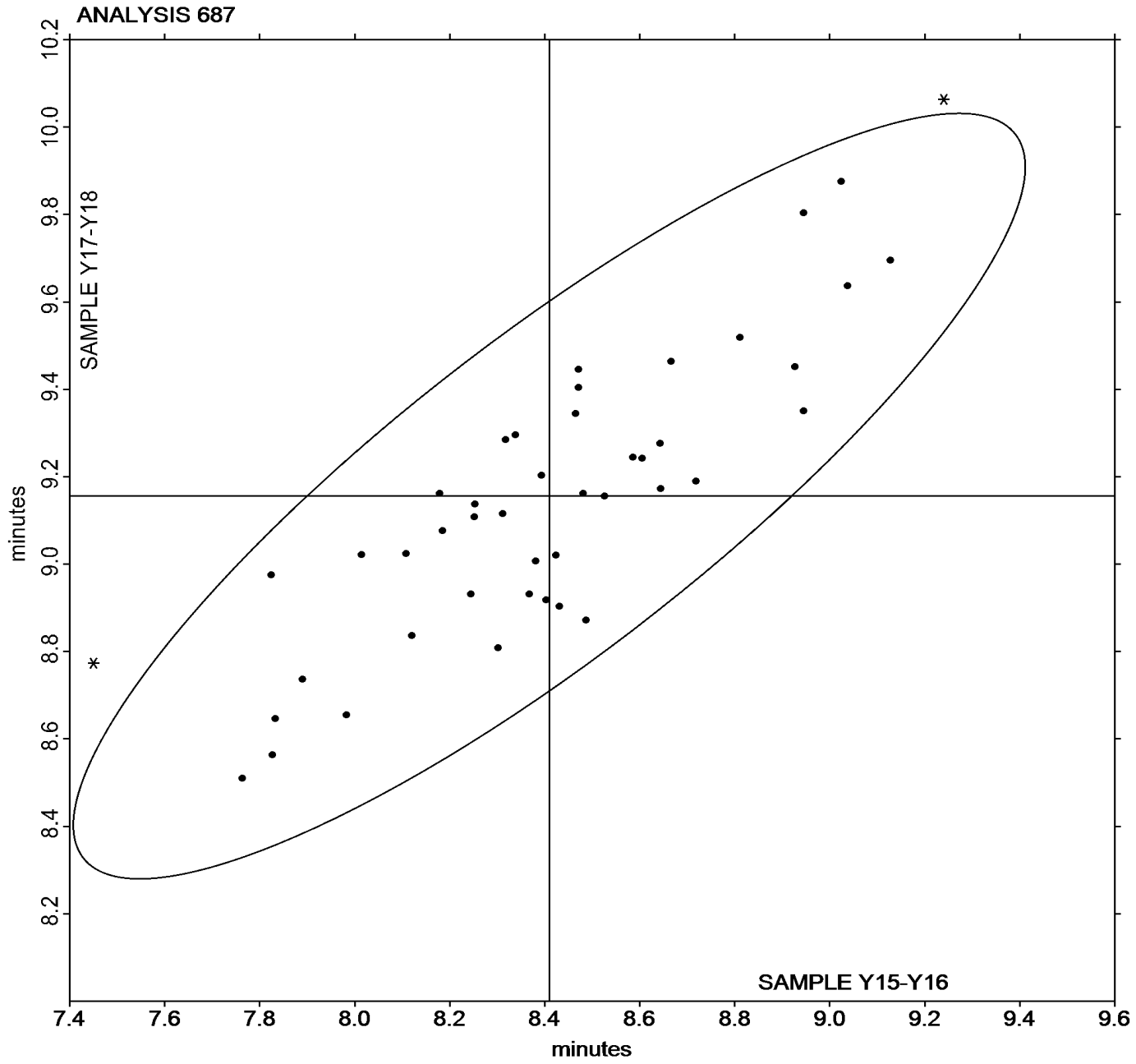
CLTUJU (X) - Data for all samples are high. Possible Systematic Error.

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 **Y15-Y16** = 8.4095 minutes

Grand Mean Sample **Y17-Y18** = 9.1557 minutes



WebCode	Data Flag	Sample Y15-Y16 Lab Mean	Sample Y15-Y16 Diff from Grand Mean	Sample Y15-Y16 CPV	Sample Y17-Y18 Lab Mean	Sample Y17-Y18 Diff from Grand Mean	Sample Y17-Y18 CPV	Instr Code
23TYJ2		2.217	-0.195	-0.78	1.839	-0.293	-0.81	MC
27TBF2		2.217	-0.195	-0.79	1.782	-0.350	-0.97	MC
2NRHFK		2.293	-0.118	-0.48	1.912	-0.220	-0.61	ME
2X3K2L		2.243	-0.168	-0.68	1.825	-0.307	-0.85	MC
3JU4KH		2.469	0.058	0.23	2.264	0.132	0.37	MC
3NRMN2		2.458	0.047	0.19	2.182	0.050	0.14	MM
469B9G		2.118	-0.293	-1.18	1.707	-0.425	-1.18	MC
4EUEEV		2.255	-0.156	-0.63	1.804	-0.328	-0.91	ME
4VM843		2.745	0.333	1.34	2.682	0.550	1.52	MC
7Q4V2H		2.735	0.323	1.30	2.548	0.416	1.15	MM
7R2WBG	X	3.673	1.262	5.08	3.800	1.668	4.61	XX
7XJFKH		2.239	-0.172	-0.69	1.940	-0.192	-0.53	MC
7XL32V		2.352	-0.060	-0.24	1.823	-0.309	-0.85	MC
8XHYPW		2.562	0.150	0.60	2.332	0.200	0.55	MC
AG3DGQ		2.419	0.008	0.03	2.294	0.162	0.45	MM
AKLMCA		2.086	-0.326	-1.31	1.602	-0.530	-1.47	MC
ATZDUU	X	3.123	0.712	2.87	3.390	1.258	3.48	MD
B9AMAN		2.373	-0.038	-0.15	2.102	-0.030	-0.08	ME
CBCZC9	*	2.825	0.413	1.67	2.968	0.836	2.31	MM
CLTUJU	X	2.947	0.535	2.16	2.485	0.353	0.98	XX
DFEDMB		2.270	-0.142	-0.57	1.945	-0.187	-0.52	MX
DP6YTA	*	2.483	0.072	0.29	1.975	-0.157	-0.43	MC
EQWEHC		2.152	-0.260	-1.05	1.817	-0.315	-0.87	ME
FGLCWB		2.312	-0.100	-0.40	2.017	-0.115	-0.32	MC
FWKCV7		2.347	-0.065	-0.26	1.907	-0.225	-0.62	MC
GBVEMD		2.428	0.017	0.07	2.205	0.073	0.20	MC
GJA4LL		2.357	-0.055	-0.22	2.035	-0.097	-0.27	ME
GKFTMA	*	3.065	0.653	2.63	3.118	0.986	2.73	XX
GUTKC8		2.181	-0.231	-0.93	1.877	-0.255	-0.71	MD
KCXFYM		2.179	-0.233	-0.94	1.809	-0.324	-0.89	MC
LC9K96	*	2.998	0.587	2.36	2.782	0.650	1.80	MD
LJBRRE		2.598	0.187	0.75	2.360	0.228	0.63	MC
LQUXPK		2.333	-0.078	-0.32	2.203	0.071	0.20	MC
LZVHM8		2.452	0.040	0.16	2.235	0.103	0.28	MC
MTCEF6		2.407	-0.005	-0.02	2.155	0.023	0.06	MM
PZA27V		2.680	0.268	1.08	2.468	0.336	0.93	MR
QCDQDV		2.750	0.338	1.36	2.645	0.513	1.42	MC

WebCode	Data Flag	Sample Y15-Y16 Lab Mean	Sample Y15-Y16 Diff from Grand Mean	Sample Y15-Y16 CPV	Sample Y17-Y18 Lab Mean	Sample Y17-Y18 Diff from Grand Mean	Sample Y17-Y18 CPV	Instr Code
QQW8QT		2.573	0.162	0.65	2.230	0.098	0.27	MR
U2LERT		2.815	0.403	1.63	2.728	0.596	1.65	MC
UADUFW		2.382	-0.030	-0.12	2.140	0.008	0.02	ME
VH8EZ4		2.072	-0.340	-1.37	1.741	-0.391	-1.08	MD
VNQG6K		2.353	-0.059	-0.24	1.972	-0.160	-0.44	MP
VQJDRU		2.102	-0.310	-1.25	1.673	-0.459	-1.27	MC
WG4XGB		2.020	-0.392	-1.58	1.732	-0.400	-1.11	MR
YC6ED4		2.505	0.093	0.38	2.235	0.103	0.28	MC
ZNF39M		2.282	-0.130	-0.52	2.068	-0.064	-0.18	MM

Summary Statistics

	Sample Y15-Y16	Sample Y17-Y18
Grand Means	2.4117 lbf.in	2.1320 lbf.in
Stnd Dev Btwn Labs	0.2481 lbf.in	0.3616 lbf.in

Statistics based on 43 of 46 reporting participants

Summary Statistics in SI Units

	Sample Y15-Y16	Sample Y17-Y18
Grand Means	2.7248 dN.m	2.4089 dN.m
Stnd Dev Btwn Labs	0.2803 dN.m	0.4085 dN.m

Statistics based on 43 of 46 reporting participants

Samples Y15-Y16: EPDM compound, batch #1 & Y17-Y18: EPDM compound, batch #2

Comments on Assigned Data Flags for Test #688

7R2WBG (X) - Data for all samples are high. Inconsistent within the determinations of sample group Y15-Y16.

ATZDUU (X) - Data for all samples are high.

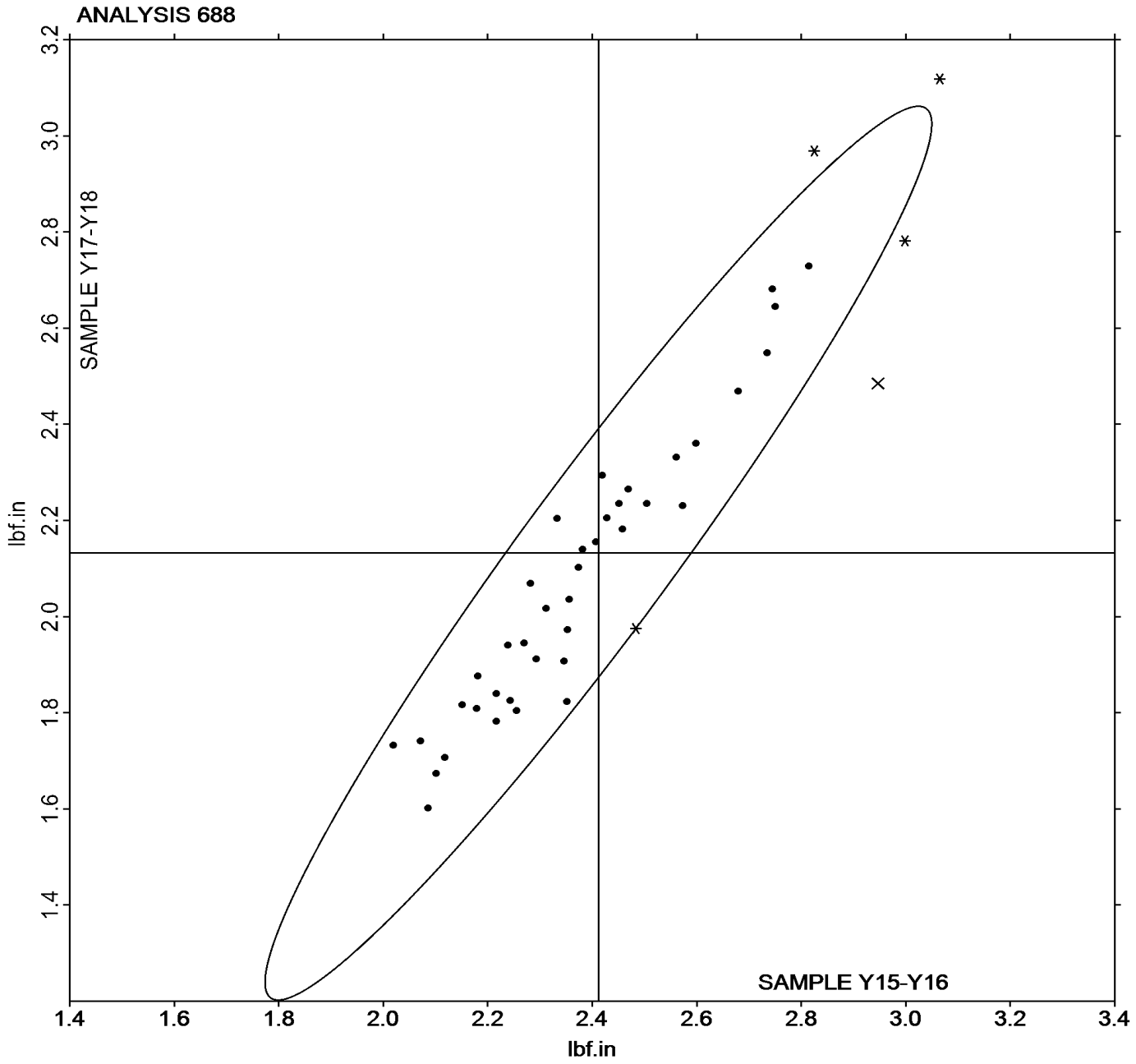
CLTUJU (X) - Inconsistent in testing between samples.

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 **Y15-Y16** = 2.4117 lbf.in

Grand Mean Sample **Y17-Y18** = 2.1320 lbf.in



MDR Vulcanization: Maximum Torque (lbf.in)

WebCode	Data Flag	Sample Y15-Y16 Lab Mean	Sample Y15-Y16 Diff from Grand Mean	Sample Y15-Y16 CPV	Sample Y17-Y18 Lab Mean	Sample Y17-Y18 Diff from Grand Mean	Sample Y17-Y18 CPV	Instr Code
23TYJ2		13.15	0.34	0.41	14.01	0.57	0.67	MC
27TBF2		13.03	0.22	0.27	13.34	-0.10	-0.11	MC
2NRHFK		12.07	-0.74	-0.90	13.02	-0.42	-0.49	ME
2X3K2L		11.79	-1.02	-1.25	12.55	-0.89	-1.06	MC
3NRMN2		11.75	-1.06	-1.29	12.96	-0.48	-0.57	MM
469B9G		12.14	-0.67	-0.82	12.97	-0.47	-0.56	MC
4EUEEV		12.63	-0.18	-0.22	13.33	-0.11	-0.13	ME
4VM843		13.12	0.31	0.38	13.51	0.07	0.08	MC
7Q4V2H		14.39	1.58	1.93	15.12	1.68	1.99	MM
7R2WBG	*	15.30	2.49	3.04	16.05	2.61	3.10	XX
7XJFKH		12.92	0.11	0.14	13.85	0.41	0.49	MC
7XL32V		12.63	-0.18	-0.23	13.47	0.03	0.04	MC
8XHYPW		12.99	0.18	0.21	13.64	0.20	0.23	MC
AG3DGQ		12.74	-0.07	-0.08	12.85	-0.58	-0.69	MM
AKLMCA		12.35	-0.46	-0.56	13.16	-0.28	-0.33	MC
ATZDUU		13.22	0.41	0.51	13.66	0.22	0.26	MD
B9AMAN		12.33	-0.48	-0.58	12.99	-0.45	-0.53	ME
CBCZC9		12.71	-0.10	-0.13	13.34	-0.10	-0.12	MM
CLTUJU	*	14.90	2.09	2.55	15.68	2.24	2.66	TP
DFEDMB		12.66	-0.15	-0.18	13.58	0.14	0.16	MX
DP6YTA		12.69	-0.12	-0.15	13.30	-0.14	-0.17	MC
EQWEHC		12.59	-0.22	-0.27	12.99	-0.45	-0.53	ME
FGLCWB		12.82	0.01	0.01	13.59	0.15	0.18	MC
FWKCV7		13.08	0.27	0.33	13.73	0.29	0.35	MC
GBVEMD		12.23	-0.58	-0.70	12.91	-0.53	-0.63	MC
GJA4LL		12.49	-0.32	-0.39	13.10	-0.34	-0.40	ME
GKFTMA		13.19	0.38	0.47	13.89	0.45	0.54	XX
GUTKC8		11.52	-1.29	-1.57	11.63	-1.81	-2.15	MD
KCXFYM		12.15	-0.66	-0.80	13.22	-0.22	-0.26	MC
LC9K96		14.17	1.36	1.66	14.69	1.25	1.48	MD
LJBRRE		12.59	-0.22	-0.27	13.22	-0.22	-0.26	MC
LQUXPK		11.87	-0.94	-1.15	12.36	-1.08	-1.28	MC
LZVHM8		12.91	0.10	0.13	13.72	0.28	0.34	MC
MTCEF6		12.05	-0.76	-0.93	12.93	-0.51	-0.61	MM
PZA27V		13.60	0.79	0.97	13.72	0.28	0.33	MR
QCDQDV		12.54	-0.27	-0.33	12.95	-0.49	-0.58	MC
QQW8QT		13.99	1.18	1.44	15.11	1.67	1.98	MR

WebCode	Data Flag	Sample Y15-Y16 Lab Mean	Sample Y15-Y16 Diff from Grand Mean	Sample Y15-Y16 CPV	Sample Y17-Y18 Lab Mean	Sample Y17-Y18 Diff from Grand Mean	Sample Y17-Y18 CPV	Instr Code
U2LERT		13.66	0.85	1.03	13.77	0.33	0.39	MC
UADUFW	*	13.63	0.82	1.00	13.45	0.01	0.01	ME
VH8EZ4		12.18	-0.63	-0.77	13.31	-0.13	-0.16	MD
VNQG6K		11.74	-1.07	-1.31	12.18	-1.26	-1.49	MC
VQJDRU		12.18	-0.63	-0.77	12.59	-0.85	-1.01	MC
WG4XGB		12.97	0.16	0.19	13.47	0.03	0.04	MR
YC6ED4		12.76	-0.05	-0.06	13.42	-0.02	-0.02	MC
ZNF39M		12.01	-0.80	-0.98	12.45	-0.99	-1.18	MM

Summary Statistics

	Sample Y15-Y16	Sample Y17-Y18
Grand Means	12.809 lbf.in	13.439 lbf.in
Stnd Dev Btwn Labs	0.819 lbf.in	0.842 lbf.in

Statistics based on 45 of 45 reporting participants

Summary Statistics in SI Units

	Sample Y15-Y16	Sample Y17-Y18
Grand Means	14.473 dN.m	15.184 dN.m
Stnd Dev Btwn Labs	0.925 dN.m	0.952 dN.m

Statistics based on 45 of 45 reporting participants

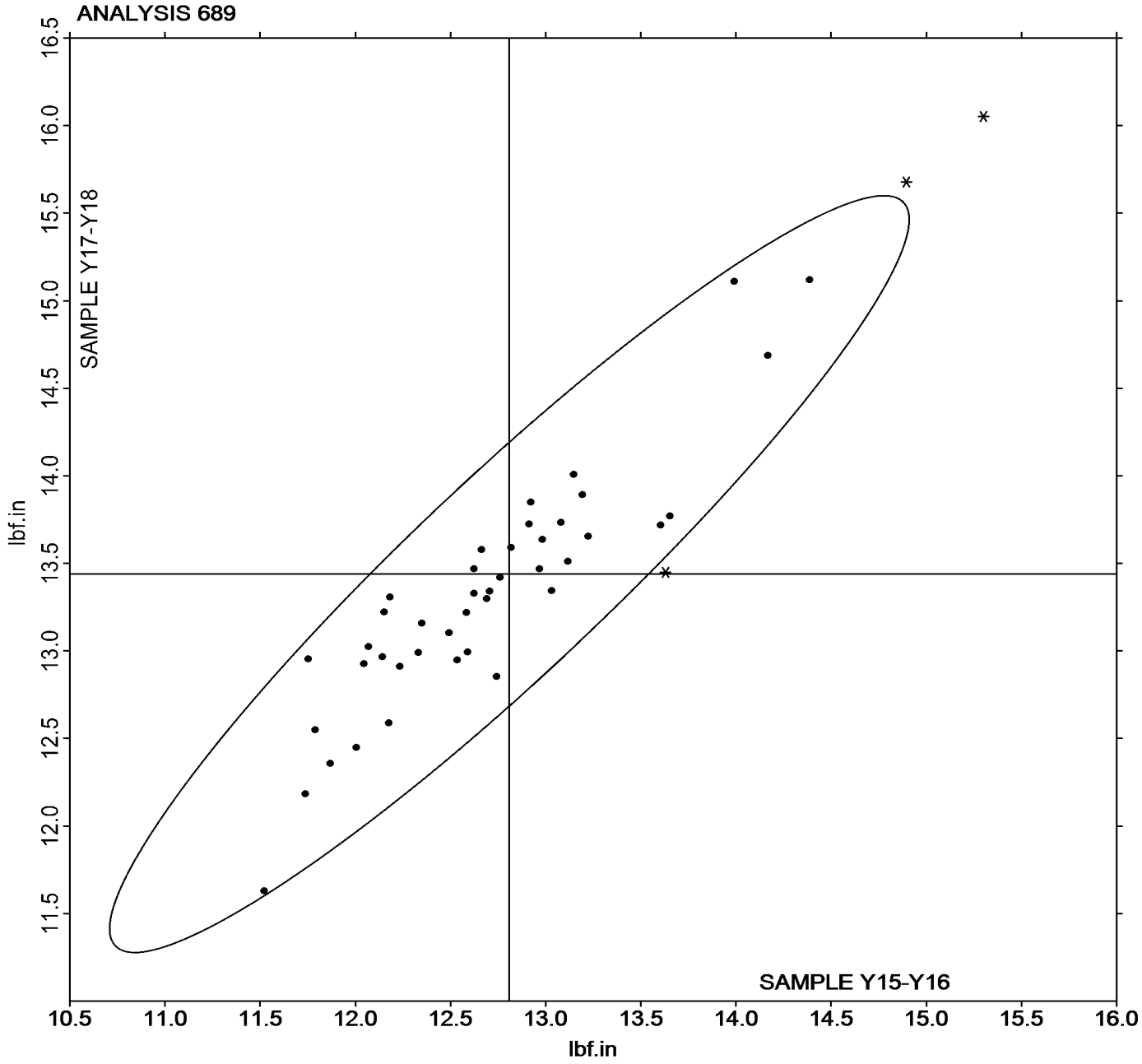
Samples Y15-Y16: EPDM compound, batch #1 & Y17-Y18: EPDM compound, batch #2

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 **Y15-Y16** = 12.809 lbf.in

Grand Mean Sample **Y17-Y18** = 13.439 lbf.in



RPA Rheological Properties: Part A - G' at 20Hz (kPa)

WebCode	Data Flag	Sample G11-G12 Lab Mean	Sample G11-G12 Diff from Grand Mean	Sample G11-G12 CPV	Sample G13-G14 Lab Mean	Sample G13-G14 Diff from Grand Mean	Sample G13-G14 CPV	Instr Code
23TYJ2		476.5	-59.5	-1.12	438.2	-59.0	-1.12	RP
4EUEEV		587.8	51.7	0.97	538.4	41.2	0.78	RP
7XJFKH		493.2	-42.9	-0.81	454.6	-42.6	-0.81	RP
7XL32V		494.8	-41.3	-0.78	456.6	-40.6	-0.77	PR
A34TFT		486.0	-50.1	-0.94	446.9	-50.3	-0.96	RP
AG3DGQ		544.9	8.8	0.17	523.5	26.3	0.50	XX
CLTUJU		622.4	86.4	1.63	571.2	74.0	1.41	XX
JAWVWW		498.6	-37.5	-0.71	459.0	-38.2	-0.73	XX
MTCEF6		595.9	59.9	1.13	573.9	76.7	1.46	RP
VH8EZ4		560.6	24.6	0.46	509.7	12.5	0.24	RP

Summary Statistics

	Sample G11-G12	Sample G13-G14
Grand Means	536.07 kPa	497.20 kPa
Stnd Dev Btwn Labs	53.12 kPa	52.53 kPa

Statistics based on 10 of 10 reporting participants

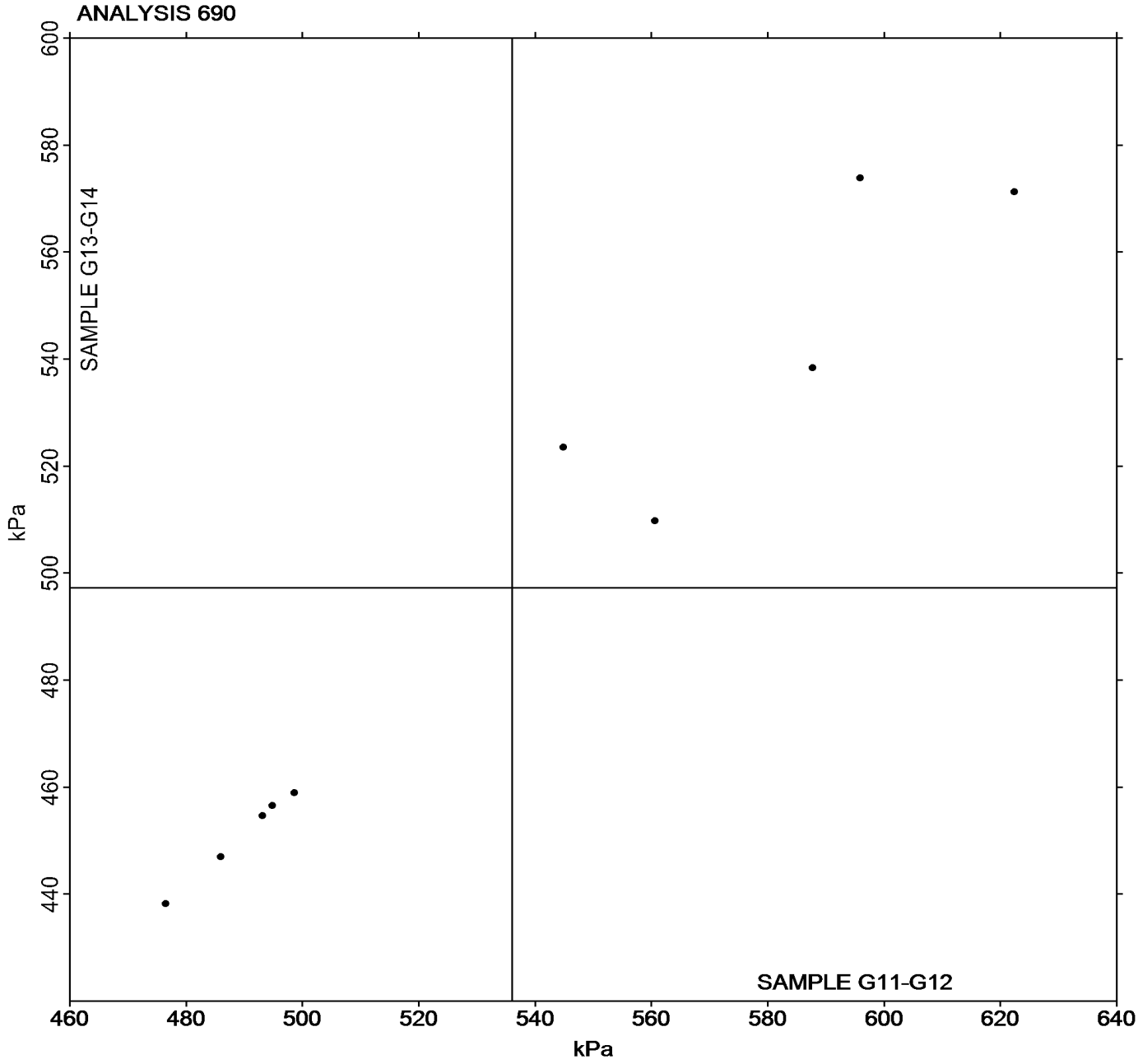
Samples G11-G12: EPDM compound, batch #1 & G13-G14: EPDM compound, batch #2

Key to Instrument Codes Reported by Participants

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

Grand Mean Sample **G11-G12** = 536.07 kPa

Grand Mean Sample **G13-G14** = 497.20 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 A - G" at 20Hz (kPa)

WebCode	Data Flag	Sample G11-G12 Lab Mean	Sample G11-G12 Diff from Grand Mean	Sample G11-G12 CPV	Sample G13-G14 Lab Mean	Sample G13-G14 Diff from Grand Mean	Sample G13-G14 CPV	Instr Code
23TYJ2		201.0	-16.9	-0.88	200.7	-15.1	-0.80	RP
4EUEEV		236.4	18.6	0.97	233.6	17.7	0.93	XX
7XJFKH		206.1	-11.8	-0.62	203.5	-12.4	-0.65	RP
7XL32V		210.9	-7.0	-0.37	209.5	-6.4	-0.33	PR
A34TFT		208.2	-9.7	-0.51	204.5	-11.4	-0.60	RP
AG3DGQ		212.8	-5.1	-0.27	212.1	-3.8	-0.20	XX
CLTUJU		263.8	45.9	2.41	262.5	46.6	2.45	XX
JAWVWW		213.8	-4.1	-0.21	212.2	-3.7	-0.19	XX
MTCEF6		203.8	-14.1	-0.74	202.1	-13.8	-0.73	RP
VH8EZ4		222.0	4.1	0.22	218.1	2.2	0.12	RP

Summary Statistics

	Sample G11-G12	Sample G13-G14
Grand Means	217.86 kPa	215.88 kPa
Stnd Dev Btwn Labs	19.08 kPa	19.03 kPa

Statistics based on 10 of 10 reporting participants

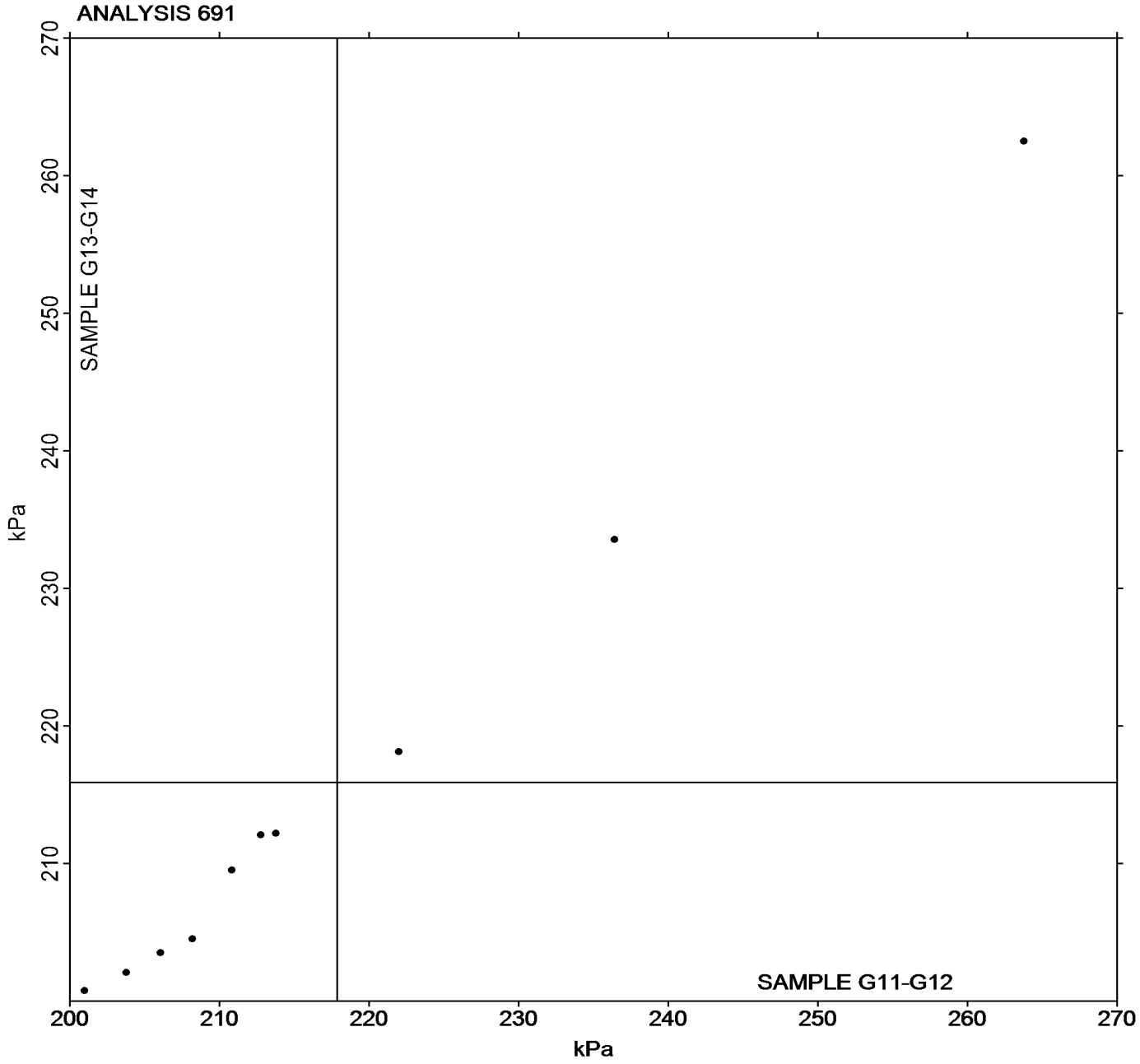
Samples G11-G12: EPDM compound, batch #1 & G13-G14: EPDM compound, batch #2

Key to Instrument Codes Reported by Participants

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

Grand Mean Sample **G11-G12** = 217.86 kPa

Grand Mean Sample **G13-G14** = 215.88 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 G11-G12 Lab Mean	Sample G11-G12 Diff from Grand Mean	Sample G11-G12 CPV	Sample G13-G14 Lab Mean	Sample G13-G14 Diff from Grand Mean	Sample G13-G14 CPV	Instr Code
23TYJ2		71.39	-14.35	-0.99	62.29	-14.25	-0.99	RP
4EUEEV		86.21	0.46	0.03	76.70	0.16	0.01	RP
7XJFKH		79.10	-6.64	-0.46	71.02	-5.52	-0.38	RP
7XL32V		75.70	-10.05	-0.69	66.19	-10.35	-0.72	PR
A34TFT		77.42	-8.32	-0.58	68.01	-8.53	-0.59	RP
AG3DGQ		92.18	6.44	0.45	88.43	11.89	0.82	XX
CLTUJU		84.99	-0.75	-0.05	73.95	-2.59	-0.18	XX
JAWVWW		81.23	-4.51	-0.31	71.97	-4.57	-0.32	XX
MTCEF6		123.17	37.43	2.59	112.49	35.95	2.49	RP
VH8EZ4		86.03	0.29	0.02	74.34	-2.20	-0.15	RP

Summary Statistics

	Sample G11-G12	Sample G13-G14
Grand Means	85.742 kPa	76.538 kPa
Stnd Dev Btwn Labs	14.468 kPa	14.451 kPa

Statistics based on 10 of 10 reporting participants

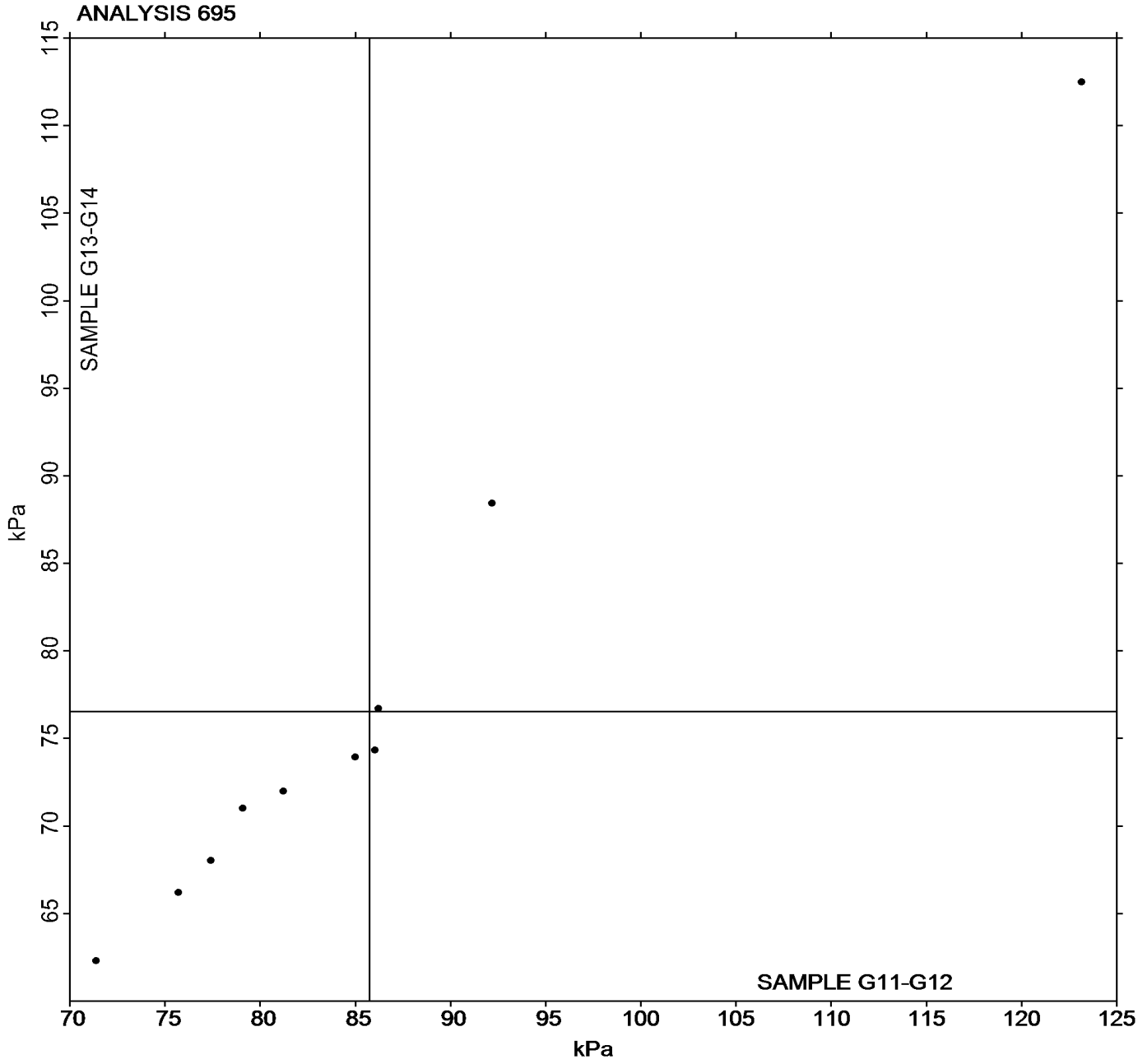
Samples G11-G12: EPDM compound, batch #1 & G13-G14: EPDM compound, batch #2

Key to Instrument Codes Reported by Participants

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

Grand Mean Sample **G11-G12** = 85.742 kPa

Grand Mean Sample **G13-G14** = 76.538 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 G11-G12 Lab Mean	Sample G11-G12 Diff from Grand Mean	Sample G11-G12 CPV	Sample G13-G14 Lab Mean	Sample G13-G14 Diff from Grand Mean	Sample G13-G14 CPV	Instr Code
23TYJ2		65.49	-8.04	-1.14	61.56	-7.72	-1.16	RP
4EUEEV		84.71	11.18	1.58	79.81	10.52	1.58	XX
7XJFKH		68.89	-4.65	-0.66	64.83	-4.45	-0.67	RP
7XL32V		67.21	-6.32	-0.89	63.03	-6.26	-0.94	PR
A34TFT		66.26	-7.27	-1.03	62.20	-7.08	-1.06	XX
AG3DGQ		72.79	-0.74	-0.10	70.85	1.56	0.23	XX
CLTUJU		81.49	7.96	1.13	75.86	6.58	0.99	XX
JAWVWW		70.96	-2.57	-0.36	66.03	-3.25	-0.49	XX
MTCEF6		75.56	2.03	0.29	71.57	2.28	0.34	XX
VH8EZ4		81.96	8.43	1.19	77.08	7.80	1.17	RP

Summary Statistics

	Sample G11-G12	Sample G13-G14
Grand Means	73.532 kPa	69.282 kPa
Stnd Dev Btwn Labs	7.067 kPa	6.681 kPa

Statistics based on 10 of 10 reporting participants

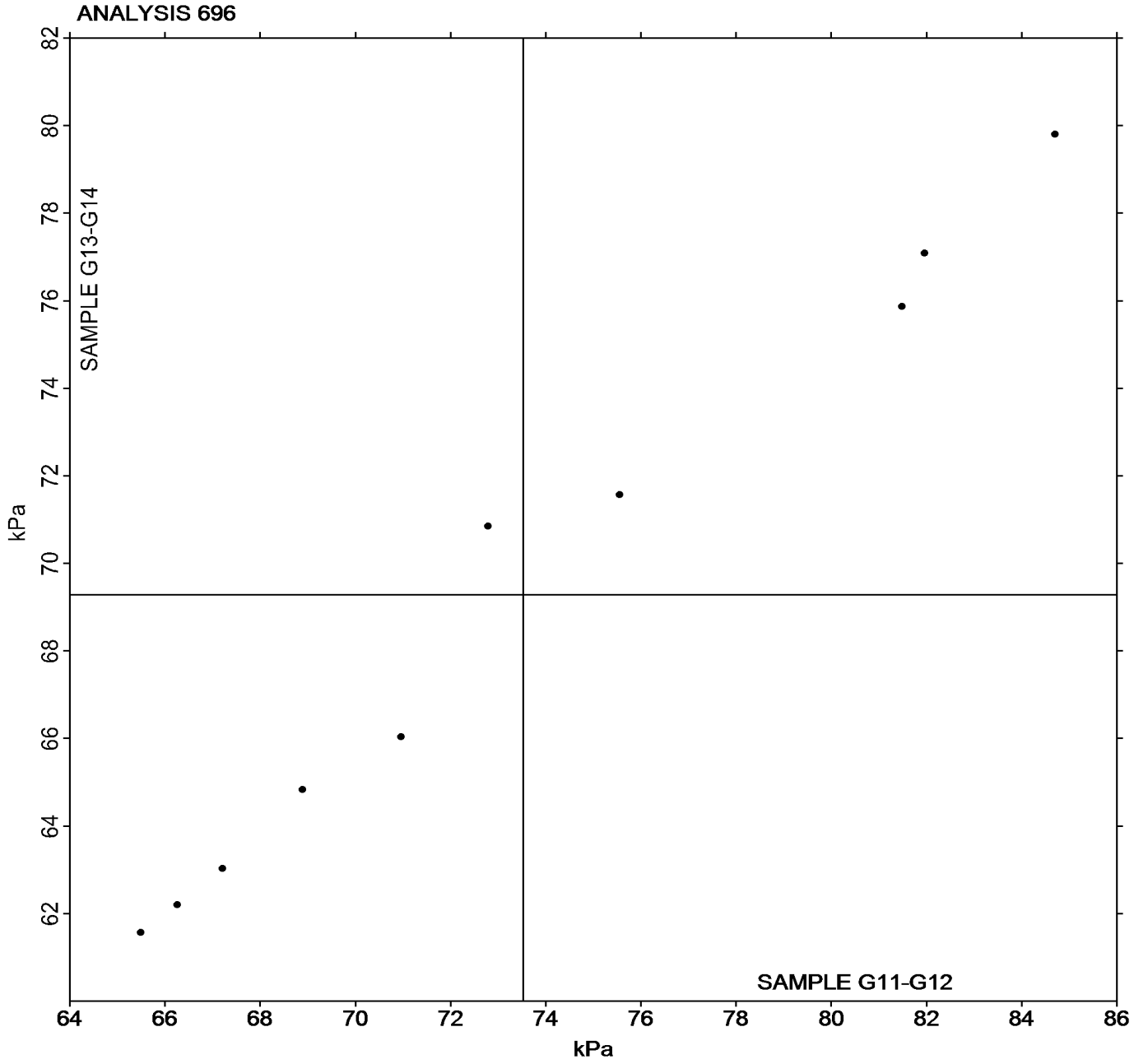
Samples G11-G12: EPDM compound, batch #1 & G13-G14: EPDM compound, batch #2

Key to Instrument Codes Reported by Participants

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

Grand Mean Sample **G11-G12** = 73.532 kPa

Grand Mean Sample **G13-G14** = 69.282 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-