Collaborative Testing Services, Inc.

Rubber Interlaboratory Testing Program

Summary Report #228- 2nd Qtr 2026

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
640	O-Ring Tensile Strength at Break
641	O-Ring Ultimate Elongation
642	O-Ring Stress at 100% Elongation
647	O-Ring Hardness (Shore A/Type A)
648	O-Ring Hardness (Shore M)
649	O-Ring Density
650	O-Ring 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
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

Analysis	Analysis Name
689	MDR Vulcanization Charac.: Maximum Torque
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 industries including rubber, plastics, fasteners and metals, containerboard, paper, color, and wine, as well as proficiency tests for forensic laboratories. All of the tests are designed to assist organizations in achieving and maintaining quality control objectives. Labs from the U.S., as well as more than 100 countries, currently participate in CTS programs.

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

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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 B61-B62 Lab Mean	Diff from Grand Mean	CPV	Sample B63-B64 Lab Mean	Diff from Grand Mean	CPV
2NEN38		3,074.8	-259.7	-1.42	3,053.1	-296.7	-1.39
3ATVQ7		3,431.0	96.5	0.53	3,545.5	195.7	0.92
3EMPN8		3,163.3	-171.2	-0.94	3,206.1	-143.7	-0.67
3P6A94		3,424.0	89.5	0.49	3,463.5	113.7	0.53
3Z3BL8		3,510.5	176.0	0.96	3,423.5	73.7	0.35
47MREA		3,440.5	106.0	0.58	3,455.0	105.2	0.49
4FDDK8		3,248.9	-85.6	-0.47	3,290.2	-59.6	-0.28
4N4WZ2		3,509.4	174.9	0.96	3,603.3	253.5	1.19
6739A3		2,940.0	-394.5	-2.16	2,920.0	-429.8	-2.02
6BDLQ2		3,179.3	-155.3	-0.85	3,200.3	-149.5	-0.70
6C934X		3,184.7	-149.9	-0.82	3,393.9	44.2	0.21
6QAEYX		3,317.0	-17.5	-0.10	3,394.0	44.2	0.21
7ECXM2		3,437.4	102.9	0.56	3,473.7	123.9	0.58
7LP9FT	*	3,046.5	-288.0	-1.58	3,254.5	-95.3	-0.45
7R2Y49		3,060.9	-273.6	-1.50	3,194.8	-155.0	-0.73
7WWNLZ		3,496.5	162.0	0.89	3,305.0	-44.8	-0.21
83G7F3		3,373.0	38.5	0.21	3,284.0	-65.8	-0.31
98779N		3,473.0	138.4	0.76	3,553.5	203.7	0.96
9L3GGR		3,315.5	-19.0	-0.10	3,335.0	-14.8	-0.07
9TKQ6N		3,507.5	173.0	0.95	3,452.0	102.2	0.48
9WK2Y4	*	3,793.0	458.5	2.51	3,761.5	411.7	1.93
AWZHUW		3,587.1	252.6	1.38	3,743.1	393.3	1.85
BD826T		3,387.5	53.0	0.29	3,424.0	74.2	0.35
C3E6GW	*	3,314.5	-20.0	-0.11	3,575.5	225.7	1.06
C3F3RT		3,319.9	-14.7	-0.08	3,388.4	38.6	0.18
CEC7VM		3,379.4	44.9	0.25	3,517.2	167.4	0.79
D3EPJQ		3,581.0	246.5	1.35	3,730.5	380.7	1.79
DF3QZX		3,086.5	-248.0	-1.36	2,996.0	-353.8	-1.66
DJJWYT		3,261.5	-73.0	-0.40	3,229.0	-120.8	-0.57
DU6Z7R		3,437.4	102.9	0.56	3,447.3	97.5	0.46
DYBUZM		3,310.0	-24.5	-0.13	3,334.5	-15.3	-0.07
E8KHC2		3,554.2	219.7	1.20	3,609.3	259.5	1.22
E9F2D3		3,156.0	-178.5	-0.98	3,278.5	-71.3	-0.33
EAQZCH		3,095.1	-239.4	-1.31	2,925.4	-424.4	-1.99
G9QKCP		3,527.8	193.2	1.06	3,528.3	178.5	0.84
GA69DG		3,031.3	-303.2	-1.66	2,871.8	-478.0	-2.24
GK3AQL		3,252.5	-82.0	-0.45	3,229.3	-120.5	-0.57
GKMTVT		3,304.0	-30.5	-0.17	3,275.7	-74.1	-0.35

WebCode	Data Flag	Sample B61-B62 Lab Mean	Diff from Grand Mean	CPV	Sample B63-B64 Lab Mean	Diff from Grand Mean	CPV
GXMPUK		3,409.1	74.6	0.41	3,565.8	216.0	1.01
H66GHP		3,705.0	370.5	2.03	3,675.0	325.2	1.53
HZV42Q		3,265.0	-69.5	-0.38	3,130.0	-219.8	-1.03
JFG48G		3,103.8	-230.7	-1.26	2,995.1	-354.7	-1.66
JQ48CV		3,069.0	-265.5	-1.45	2,987.8	-362.0	-1.70
KAUDKL		3,559.1	224.6	1.23	3,667.3	317.5	1.49
L8LNVH		3,365.5	31.0	0.17	3,499.5	149.7	0.70
LMDKUR		3,277.9	-56.6	-0.31	3,364.9	15.1	0.07
LMDLWD		3,144.3	-190.2	-1.04	3,190.5	-159.3	-0.75
LPGGFF		3,441.8	107.3	0.59	3,429.8	80.0	0.38
LQCWTC		3,392.5	58.0	0.32	3,478.5	128.7	0.60
NYLXBJ		3,443.8	109.3	0.60	3,443.8	94.0	0.44
P862MB		3,340.0	5.5	0.03	3,405.5	55.7	0.26
Q7TLTA		3,202.0	-132.5	-0.73	3,286.5	-63.3	-0.30
QMF2W7		3,105.0	-229.5	-1.26	3,105.0	-244.8	-1.15
R4JV47		3,127.0	-207.5	-1.14	3,097.0	-252.8	-1.19
R9EP28		3,131.2	-203.3	-1.11	3,107.4	-242.4	-1.14
RD6Y9K		3,283.5	-51.0	-0.28	3,241.0	-108.8	-0.51
RD6YB6		3,611.5	276.9	1.52	3,611.5	261.7	1.23
TBX2DH		3,382.0	47.5	0.26	3,371.5	21.7	0.10
TX96CJ		3,258.0	-76.5	-0.42	3,132.5	-217.3	-1.02
U23K2J		3,185.1	-149.5	-0.82	3,221.3	-128.5	-0.60
UDJ6MZ		3,663.0	328.4	1.80	3,686.2	336.4	1.58
UPCNZK		3,426.5	92.0	0.50	3,406.0	56.2	0.26
UPDJKC		3,493.5	159.0	0.87	3,487.0	137.2	0.64
UU97MD		3,338.0	3.5	0.02	3,426.5	76.7	0.36
V4MPB2		3,598.8	264.3	1.45	3,623.7	273.9	1.29
VT76PJ		3,106.0	-228.5	-1.25	2,927.0	-422.8	-1.98
WHK2HK		3,504.2	169.7	0.93	3,538.4	188.6	0.88
WHZHCD		3,465.0	130.5	0.71	3,365.0	15.2	0.07
WJV34J		3,470.0	135.5	0.74	3,475.0	125.2	0.59
X43RW8		3,205.5	-129.0	-0.71	3,267.0	-82.8	-0.39
XR7PRD		3,366.0	31.5	0.17	3,328.5	-21.3	-0.10
YLFQGV		3,308.0	-26.5	-0.15	3,339.5	-10.3	-0.05
YMUZRG		3,526.6	192.1	1.05	3,602.0	252.3	1.18
YPV2RD		3,620.0	285.5	1.56	3,495.0	145.2	0.68
YUVDPY		3,241.0	-93.5	-0.51	3,206.5	-143.3	-0.67

WebCode	Data Flag	Sample B61-B62 Lab Mean	Diff from Grand Mean	CPV	Sample B63-B64 Lab Mean	Diff from Grand Mean	CPV
Z6JY7E		3,170.0	-164.5	-0.90	3,225.0	-124.8	-0.59
Z7HY9Y		3,130.2	-204.3	-1.12	3,230.3	-119.5	-0.56
ZJ4ECY		3,146.0	-188.5	-1.03	2,982.0	-367.8	-1.73

Summary Statistics

	B61-B62	B63-B64
Grand Means	3,334.52 psi	3,349.79 psi
Stnd Dev Btwn Labs	182.55 psi	213.08 psi

Statistics based on 78 of 78 reporting participants

Summary Statistics in SI Units

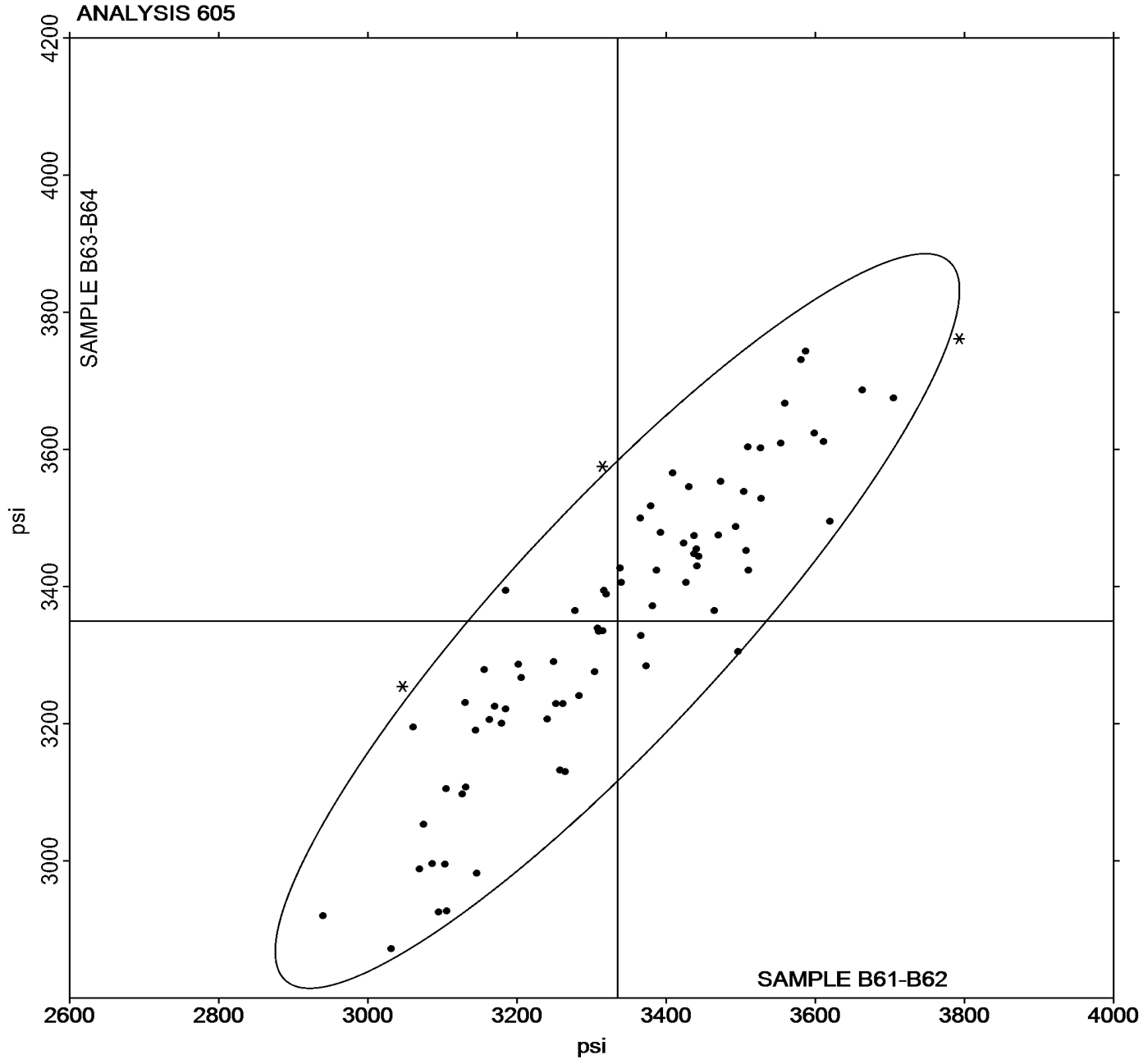
	B61-B62	B63-B64
Grand Means	22.991 MPa	23.100 MPa
Stnd Dev Btwn Labs	1.259 MPa	1.470 MPa

Statistics based on 78 of 78 reporting participants

Samples B61-B62: Polyisoprene Compound & B63-B64: Polyisoprene Compound

Grand Mean Sample **B61-B62** = 3,334.52 psi

Grand Mean Sample **B63-B64** = 3,349.79 psi



WebCode	Data Flag	Sample B61-B62 Lab Mean	Diff from Grand Mean	CPV	Sample B63-B64 Lab Mean	Diff from Grand Mean	CPV
2NEN38		531.9	-46.7	-1.58	536.9	-42.8	-1.40
3ATVQ7		619.0	40.4	1.37	630.5	50.9	1.66
3EMPN8		544.0	-34.6	-1.17	546.0	-33.6	-1.10
3P6A94		562.5	-16.1	-0.55	577.0	-2.6	-0.09
3Z3BL8		625.5	46.9	1.59	623.5	43.9	1.43
47MREA		557.0	-21.6	-0.73	553.5	-26.1	-0.85
4FDDK8		579.5	0.9	0.03	582.5	2.9	0.09
4N4WZ2		579.7	1.1	0.04	587.7	8.1	0.26
6739A3		564.5	-14.1	-0.48	548.0	-31.6	-1.03
6BDLQ2		527.0	-51.6	-1.75	521.7	-57.9	-1.89
6C934X		568.3	-10.2	-0.35	566.0	-13.6	-0.44
6QAEYX		586.0	7.4	0.25	582.5	2.9	0.09
7ECXM2	X	555.5	-23.1	-0.78	587.0	7.4	0.24
7LP9FT		564.5	-14.1	-0.48	573.0	-6.6	-0.22
7R2Y49		570.7	-7.9	-0.27	579.0	-0.6	-0.02
7WWNLZ		594.5	15.9	0.54	604.0	24.4	0.80
83G7F3		551.5	-27.1	-0.92	549.5	-30.1	-0.98
98779N		604.5	25.9	0.88	612.0	32.4	1.06
9L3GGR		546.5	-32.1	-1.09	547.5	-32.1	-1.05
9TKQ6N		578.0	-0.6	-0.02	576.0	-3.6	-0.12
9WK2Y4	*	596.5	17.9	0.61	572.5	-7.1	-0.23
AWZHUW		585.5	6.9	0.23	596.6	17.0	0.55
BD826T		614.0	35.4	1.20	617.0	37.4	1.22
C3E6GW		571.0	-7.6	-0.26	583.0	3.4	0.11
C3F3RT		590.1	11.5	0.39	593.8	14.1	0.46
CEC7VM		630.0	51.4	1.74	641.5	61.9	2.02
D3EPJQ		589.0	10.4	0.35	587.5	7.9	0.26
DF3QZX	*	663.5	84.9	2.88	666.0	86.4	2.82
DJJWYT		556.5	-22.1	-0.75	556.5	-23.1	-0.76
DU6Z7R	X	599.0	20.4	0.69	645.0	65.4	2.14
DYBUZM		565.0	-13.6	-0.46	565.0	-14.6	-0.48
E8KHC2		586.5	7.9	0.27	581.5	1.9	0.06
E9F2D3	X	557.5	-21.1	-0.71	594.5	14.9	0.49
EAQZCH		537.8	-40.8	-1.38	546.2	-33.4	-1.09
G9QKCP		604.5	25.9	0.88	588.3	8.7	0.28
GA69DG		526.0	-52.6	-1.78	519.0	-60.6	-1.98
GK3AQL		586.0	7.4	0.25	582.5	2.9	0.09
GKMTVT		526.2	-52.3	-1.77	540.6	-39.0	-1.28

WebCode	Data Flag	Sample B61-B62 Lab Mean	Diff from Grand Mean	CPV	Sample B63-B64 Lab Mean	Diff from Grand Mean	CPV
GXMPUK		561.5	-17.1	-0.58	565.5	-14.1	-0.46
H66GHP		574.1	-4.5	-0.15	578.7	-0.9	-0.03
HZV42Q		608.0	29.4	1.00	605.5	25.9	0.85
JFG48G		573.5	-5.1	-0.17	576.0	-3.6	-0.12
JQ48CV		586.5	7.9	0.27	578.0	-1.6	-0.05
KAUDKL		590.7	12.1	0.41	599.3	19.7	0.64
L8LNVH		579.5	0.9	0.03	577.0	-2.6	-0.09
LMDKUR		606.0	27.4	0.93	600.0	20.4	0.67
LMDLWD	X	510.0	-68.6	-2.33	532.7	-47.0	-1.54
LPGGFF		582.2	3.6	0.12	582.2	2.6	0.08
LQCWTC	X	596.5	17.9	0.61	667.6	87.9	2.87
NYLXBJ		617.3	38.7	1.31	606.8	27.2	0.89
P862MB		542.0	-36.6	-1.24	527.0	-52.6	-1.72
Q7TLTA		616.5	37.9	1.29	620.5	40.9	1.34
QMF2W7		572.1	-6.5	-0.22	570.1	-9.5	-0.31
R4JV47	X	491.0	-87.6	-2.97	473.0	-106.6	-3.48
R9EP28		593.7	15.1	0.51	596.6	16.9	0.55
RD6Y9K	X	729.5	150.9	5.12	690.0	110.4	3.61
RD6YB6		637.5	58.9	2.00	637.0	57.4	1.87
TBX2DH		566.5	-12.1	-0.41	557.5	-22.1	-0.72
TX96CJ		576.0	-2.6	-0.09	594.0	14.4	0.47
U23K2J		551.0	-27.6	-0.94	557.0	-22.6	-0.74
UDJ6MZ		583.0	4.4	0.15	591.5	11.9	0.39
UPCNZK		560.0	-18.6	-0.63	559.5	-20.1	-0.66
UPDJKC		608.5	29.9	1.01	602.5	22.9	0.75
UU97MD		590.0	11.4	0.39	608.5	28.9	0.94
V4MPB2		557.1	-21.5	-0.73	552.3	-27.3	-0.89
VT76PJ		554.0	-24.6	-0.83	546.0	-33.6	-1.10
WHK2HK		595.3	16.7	0.57	590.2	10.5	0.34
WHZHCD		578.5	-0.1	0.00	582.5	2.9	0.09
WJV34J		590.0	11.4	0.39	585.0	5.4	0.18
X43RW8		555.0	-23.6	-0.80	560.5	-19.1	-0.63
XR7PRD		546.5	-32.1	-1.09	559.5	-20.1	-0.66
YLFQGV		619.5	40.9	1.39	633.0	53.4	1.74
YMUZRG		608.0	29.4	1.00	619.5	39.9	1.30
YPV2RD		617.5	38.9	1.32	612.5	32.9	1.07
YUVDPY	*	502.0	-76.6	-2.60	510.5	-69.1	-2.26

WebCode	Data Flag	Sample B61-B62 Lab Mean	Sample B61-B62 Diff from Grand Mean	Sample B61-B62 CPV	Sample B63-B64 Lab Mean	Sample B63-B64 Diff from Grand Mean	Sample B63-B64 CPV
Z6JY7E		584.5	5.9	0.20	579.0	-0.6	-0.02
Z7HY9Y		558.9	-19.7	-0.67	555.3	-24.4	-0.80
ZJ4ECY		553.0	-25.6	-0.87	543.0	-36.6	-1.20

Summary Statistics

	B61-B62	B63-B64
Grand Means	578.58 percent	579.63 percent
Stnd Dev Btwn Labs	29.49 percent	30.60 percent

Statistics based on 71 of 78 reporting participants

Samples B61-B62: Polyisoprene Compound & B63-B64: Polyisoprene Compound

Comments on Assigned Data Flags for Test #606

7ECXM2 (X) - Inconsistent in testing between samples.

DU6Z7R (X) - Inconsistent in testing between samples.

E9F2D3 (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample group B63-B64.

LMDLWD (X) - Inconsistent in testing between samples.

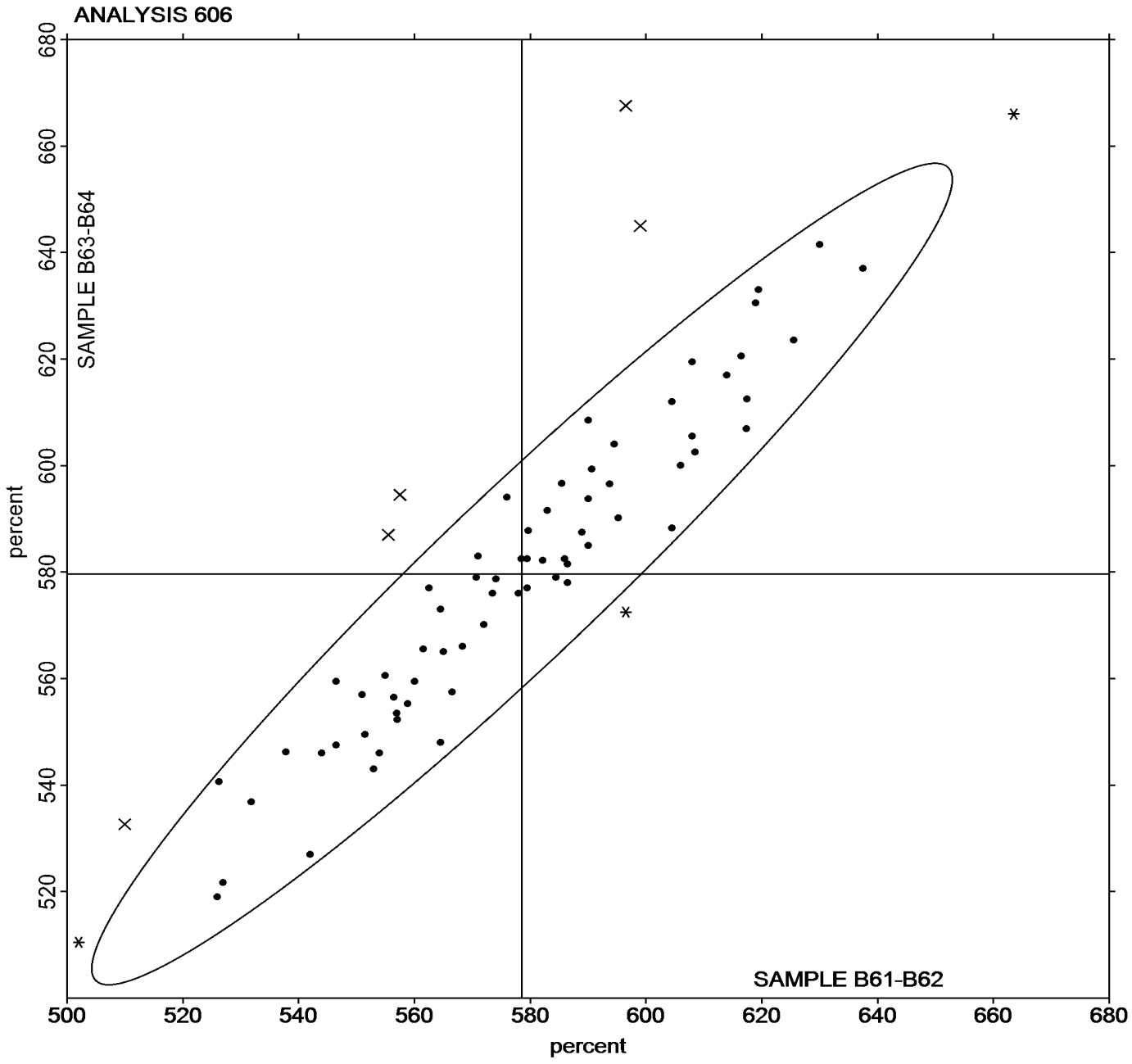
LQCWTC (X) - Data for sample group B63-B64 are high. Inconsistent within the determinations of sample group B63-B64.

R4JV47 (X) - Data for all samples are low. Possible Systematic Error.

RD6Y9K (X) - Data for all samples are high. Possible Systematic Error.

Grand Mean Sample **B61-B62** = 578.58 percent

Grand Mean Sample **B63-B64** = 579.63 percent



WebCode	Data Flag	Sample B61-B62 Lab Mean	Diff from Grand Mean	CPV	Sample B63-B64 Lab Mean	Diff from Grand Mean	CPV
2NEN38		1,235.0	52.2	0.64	1,179.2	6.9	0.08
3EMPN8		1,228.5	45.7	0.56	1,255.3	83.1	0.97
3P6A94		1,285.0	102.2	1.26	1,243.5	71.3	0.83
3Z3BL8		1,108.0	-74.8	-0.92	1,060.0	-112.2	-1.31
47MREA		1,323.0	140.2	1.73	1,356.0	183.8	2.15
4FDDK8		1,101.6	-81.2	-1.00	1,112.4	-59.8	-0.70
4N4WZ2		1,285.8	103.0	1.27	1,313.3	141.1	1.65
6739A3		1,080.5	-102.3	-1.26	1,131.0	-41.2	-0.48
6BDLQ2		1,267.6	84.9	1.04	1,286.5	114.3	1.34
6C934X		1,201.5	18.7	0.23	1,245.9	73.7	0.86
6QAEYX		1,131.0	-51.8	-0.64	1,125.5	-46.7	-0.55
7ECXM2	*	1,303.9	121.1	1.49	1,180.6	8.4	0.10
7LP9FT		1,131.0	-51.8	-0.64	1,158.0	-14.2	-0.17
7R2Y49		1,148.6	-34.2	-0.42	1,157.0	-15.2	-0.18
7WWNLZ		1,205.5	22.7	0.28	1,079.0	-93.2	-1.09
83G7F3		1,161.0	-21.8	-0.27	1,126.5	-45.7	-0.53
98779N		1,068.2	-114.6	-1.41	1,071.8	-100.4	-1.17
9L3GGR		1,183.0	0.2	0.00	1,206.0	33.8	0.39
9TKQ6N		1,274.0	91.2	1.12	1,206.0	33.8	0.39
9WK2Y4		1,338.5	155.7	1.92	1,322.5	150.3	1.76
AWZHUW		1,150.9	-31.9	-0.39	1,142.5	-29.7	-0.35
BD826T		1,121.5	-61.3	-0.75	1,078.5	-93.7	-1.10
C3E6GW		1,240.0	57.2	0.70	1,233.5	61.3	0.72
C3F3RT		1,159.9	-22.9	-0.28	1,160.7	-11.5	-0.13
CEC7VM		1,068.9	-113.8	-1.40	1,056.6	-115.6	-1.35
D3EPJQ		1,225.5	42.7	0.53	1,301.0	128.8	1.51
DJJWYT		1,364.0	181.2	2.23	1,322.0	149.8	1.75
DU6Z7R	X	1,198.4	15.6	0.19	995.8	-176.5	-2.06
DYBUZM		1,190.0	7.2	0.09	1,199.5	27.3	0.32
E8KHC2		1,147.3	-35.5	-0.44	1,160.3	-11.9	-0.14
E9F2D3		1,112.5	-70.3	-0.86	1,041.0	-131.2	-1.53
EAQZCH	X	1,219.1	36.3	0.45	1,040.7	-131.6	-1.54
G9QKCP		1,116.2	-66.6	-0.82	1,174.3	2.1	0.02
GA69DG		1,224.9	42.1	0.52	1,162.5	-9.7	-0.11
GK3AQL		1,037.0	-145.8	-1.79	1,064.6	-107.6	-1.26
GKMTVT		1,254.6	71.8	0.88	1,315.5	143.3	1.68
GXMPUK		1,269.8	87.0	1.07	1,269.8	97.6	1.14
H66GHP		1,320.0	137.2	1.69	1,310.0	137.8	1.61

WebCode	Data Flag	Sample B61-B62 Lab Mean	Sample B61-B62 Diff from Grand Mean	Sample B61-B62 CPV	Sample B63-B64 Lab Mean	Sample B63-B64 Diff from Grand Mean	Sample B63-B64 CPV
HZV42Q		1,095.0	-87.8	-1.08	1,004.0	-168.2	-1.97
JFG48G	X	901.3	-281.5	-3.46	873.8	-298.5	-3.49
JQ48CV		1,031.2	-151.6	-1.86	1,020.3	-151.9	-1.78
KAUDKL		1,203.4	20.6	0.25	1,230.9	58.7	0.69
L8LNVH		1,191.0	8.2	0.10	1,241.0	68.8	0.80
LMDKUR		1,051.5	-131.3	-1.61	1,124.1	-48.2	-0.56
LMDLWD		1,264.2	81.4	1.00	1,169.1	-3.1	-0.04
LPGGFF		1,214.1	31.3	0.39	1,155.9	-16.3	-0.19
LQCWTC	*	1,076.5	-106.3	-1.31	956.0	-216.2	-2.53
NYLXBJ		1,123.5	-59.3	-0.73	1,176.0	3.8	0.04
P862MB		1,203.5	20.7	0.25	1,231.5	59.3	0.69
Q7TLTA		1,034.5	-148.3	-1.82	1,051.5	-120.7	-1.41
QMF2W7		1,105.0	-77.8	-0.96	1,145.0	-27.2	-0.32
R4JV47	X	1,465.0	282.2	3.47	1,502.5	330.3	3.86
R9EP28		1,185.5	2.7	0.03	1,182.6	10.4	0.12
RD6Y9K	X	710.0	-472.8	-5.82	678.5	-493.7	-5.77
RD6YB6		1,083.4	-99.3	-1.22	1,077.6	-94.6	-1.11
TBX2DH		1,203.5	20.7	0.25	1,225.0	52.8	0.62
TX96CJ		1,136.0	-46.8	-0.58	1,058.5	-113.7	-1.33
U23K2J		1,190.8	8.0	0.10	1,142.9	-29.3	-0.34
UPCNZK		1,213.0	30.2	0.37	1,189.0	16.8	0.20
UPDJKC		1,140.0	-42.8	-0.53	1,184.0	11.8	0.14
UU97MD		1,178.0	-4.8	-0.06	1,123.5	-48.7	-0.57
V4MPB2		1,325.0	142.2	1.75	1,253.8	81.6	0.95
VT76PJ		1,144.5	-38.3	-0.47	1,086.0	-86.2	-1.01
WHK2HK		1,179.1	-3.7	-0.05	1,178.3	6.1	0.07
WHZHCD		1,230.0	47.2	0.58	1,168.5	-3.7	-0.04
WJV34J		1,235.0	52.2	0.64	1,215.0	42.8	0.50
X43RW8		1,274.0	91.2	1.12	1,274.0	101.8	1.19
XR7PRD		1,287.5	104.7	1.29	1,217.0	44.8	0.52
YLFQGV		1,063.5	-119.3	-1.47	1,065.5	-106.7	-1.25
YMUZRG		1,162.5	-20.3	-0.25	1,181.3	9.1	0.11
YPV2RD		1,181.5	-1.3	-0.02	1,109.0	-63.2	-0.74
YUVDPY		1,223.0	40.2	0.49	1,218.0	45.8	0.54
Z6JY7E		1,077.6	-105.2	-1.29	1,140.2	-32.0	-0.37
Z7HY9Y		1,236.2	53.4	0.66	1,243.7	71.5	0.84
ZJ4ECY		1,188.0	5.2	0.06	1,209.0	36.8	0.43

Summary Statistics		
Grand Means	1,182.79 psi	1,172.23 psi
Stnd Dev Btwn Labs	81.28 psi	85.53 psi
		Statistics based on 70 of 75 reporting participants

Summary Statistics in SI Units		
Grand Means	8.1550 MPa	8.0800 MPa
Stnd Dev Btwn Labs	0.5604 MPa	0.5900 MPa
		Statistics based on 70 of 75 reporting participants

Samples B61-B62: Polyisoprene Compound & B63-B64: Polyisoprene Compound

Comments on Assigned Data Flags for Test #607

DU6Z7R (X) - Inconsistent in testing between samples.

EAQZCH (X) - Inconsistent in testing between samples.

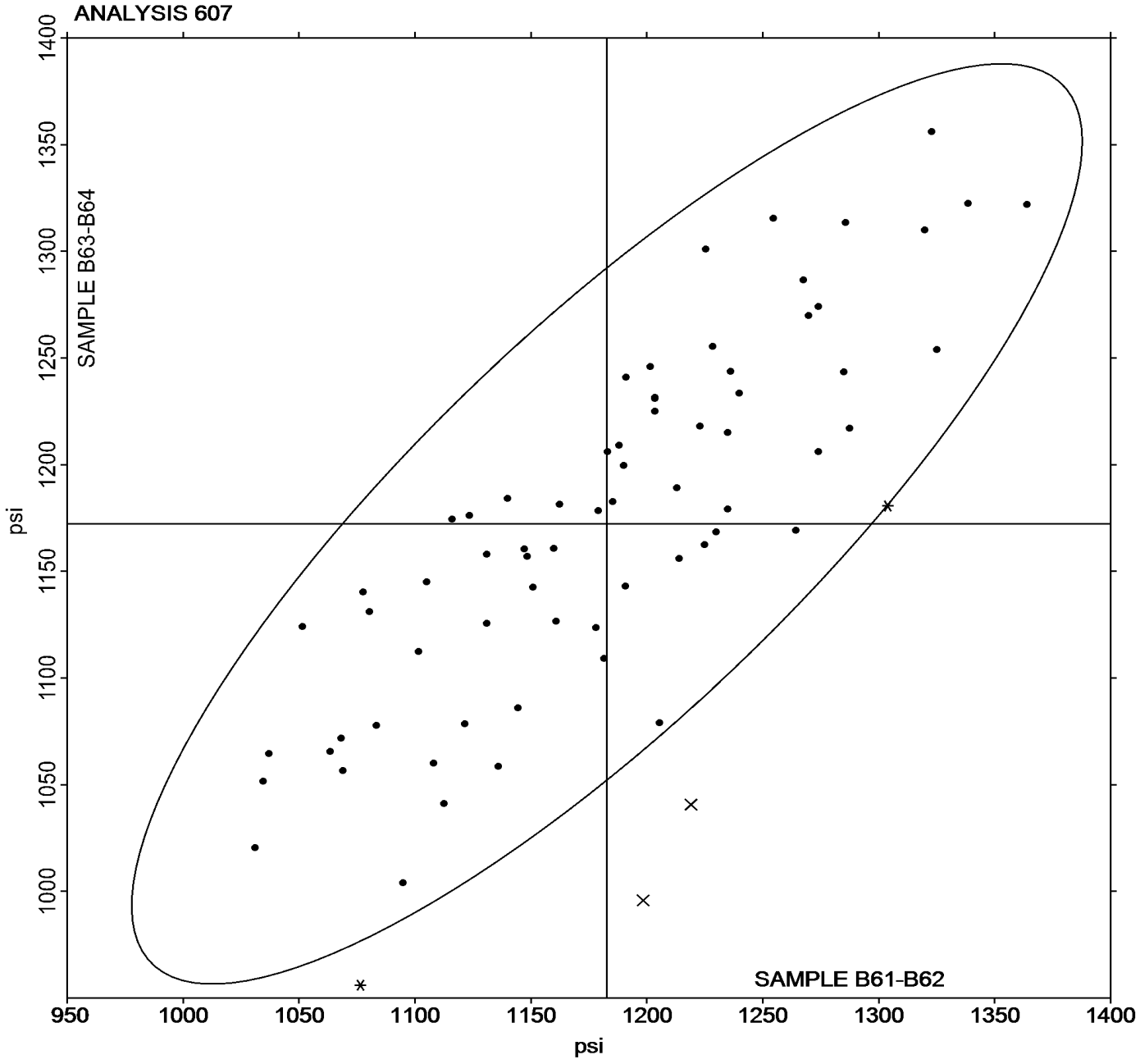
JFG48G (X) - Data for all samples are low. Possible Systematic Error.

R4JV47 (X) - Data for all samples are high. Possible Systematic Error.

RD6Y9K (X) - Data for all samples are low. Possible Systematic Error.

Grand Mean Sample **B61-B62** = 1,182.79 psi

Grand Mean Sample **B63-B64** = 1,172.23 psi



WebCode	Data Flag	Sample B61-B62 Lab Mean	Diff from Grand Mean	CPV	Sample B63-B64 Lab Mean	Diff from Grand Mean	CPV
2NEN38		249.5	4.2	0.26	238.6	-5.5	-0.31
3ATVQ7		239.0	-6.3	-0.39	238.5	-5.5	-0.32
3EMPN8		266.1	20.8	1.30	269.0	25.0	1.43
3P6A94		258.0	12.7	0.79	255.5	11.5	0.66
3Z3BL8		246.5	1.2	0.07	234.0	-10.0	-0.58
47MREA		275.5	30.2	1.89	282.5	38.5	2.20
4FDDK8		219.7	-25.6	-1.60	219.7	-24.3	-1.39
4N4WZ2		265.0	19.7	1.23	272.7	28.7	1.64
6739A3		230.5	-14.8	-0.92	240.5	-3.5	-0.20
6BDLQ2		250.2	4.9	0.31	241.5	-2.6	-0.15
6C934X		244.5	-0.8	-0.05	254.3	10.2	0.59
6QAEYX		236.0	-9.3	-0.58	237.5	-6.5	-0.38
7ECXM2		258.2	12.9	0.80	246.6	2.5	0.14
7LP9FT		243.0	-2.3	-0.14	252.5	8.5	0.48
7R2Y49		238.3	-7.0	-0.44	240.1	-4.0	-0.23
7WWNLZ	*	269.0	23.7	1.48	239.0	-5.0	-0.29
83G7F3		227.0	-18.3	-1.14	227.0	-17.0	-0.98
98779N		229.2	-16.1	-1.01	230.6	-13.4	-0.77
9L3GGR		253.0	7.7	0.48	255.0	11.0	0.63
9TKQ6N		271.5	26.2	1.64	259.0	15.0	0.86
9WK2Y4		275.5	30.2	1.89	271.5	27.5	1.57
AWZHUW		233.0	-12.4	-0.77	246.7	2.7	0.15
BD826T		239.5	-5.8	-0.36	234.0	-10.0	-0.58
C3E6GW		238.0	-7.3	-0.46	242.0	-2.0	-0.12
C3F3RT		250.1	4.8	0.30	250.5	6.5	0.37
CEC7VM		228.4	-16.9	-1.06	231.4	-12.6	-0.72
D3EPJQ		261.0	15.7	0.98	276.5	32.5	1.86
DJJWYT	X	305.0	59.7	3.73	319.0	75.0	4.29
DU6Z7R		244.8	-0.6	-0.03	217.8	-26.2	-1.50
DYBUZM		223.5	-21.8	-1.36	220.0	-24.0	-1.38
E8KHC2		224.1	-21.2	-1.32	237.1	-6.9	-0.40
E9F2D3		230.0	-15.3	-0.96	224.5	-19.5	-1.12
EAQZCH	*	250.9	5.6	0.35	219.0	-25.0	-1.43
G9QKCP		234.4	-10.9	-0.68	240.1	-4.0	-0.23
GA69DG		248.0	2.7	0.17	233.5	-10.5	-0.60
GK3AQL		227.0	-18.3	-1.14	235.0	-9.1	-0.52
GKMTVT	X	220.5	-24.8	-1.55	270.5	26.5	1.52
GXMPUK		264.7	19.4	1.21	265.4	21.4	1.22

WebCode	Data Flag	Sample B61-B62 Lab Mean	Diff from Grand Mean	CPV	Sample B63-B64 Lab Mean	Diff from Grand Mean	CPV
H66GHP		266.0	20.7	1.29	272.0	28.0	1.60
HZV42Q		235.5	-9.8	-0.61	218.0	-26.0	-1.49
JFG48G		264.0	18.7	1.17	269.0	25.0	1.43
JQ48CV		221.9	-23.4	-1.46	220.5	-23.6	-1.35
KAUDKL		252.3	7.0	0.44	261.4	17.4	0.99
L8LNVH		242.0	-3.3	-0.21	263.0	19.0	1.09
LMDKUR		219.7	-25.6	-1.60	235.7	-8.4	-0.48
LMDLWD		241.7	-3.6	-0.22	232.8	-11.2	-0.64
LPGGFF		275.4	30.1	1.88	266.7	22.6	1.30
LQCWTC		240.0	-5.3	-0.33	224.5	-19.5	-1.12
NYLXBJ		211.9	-33.4	-2.09	221.1	-22.9	-1.31
P862MB		225.0	-20.3	-1.27	223.0	-21.0	-1.21
Q7TLTA		226.5	-18.8	-1.17	232.0	-12.0	-0.69
QMF2W7		216.5	-28.8	-1.80	226.0	-18.0	-1.03
R4JV47	*	278.5	33.2	2.07	295.5	51.5	2.95
R9EP28		238.9	-6.4	-0.40	239.7	-4.4	-0.25
RD6Y9K	X	154.5	-90.8	-5.67	162.5	-81.5	-4.67
RD6YB6		230.6	-14.7	-0.92	234.2	-9.8	-0.56
TBX2DH		241.5	-3.8	-0.24	253.0	9.0	0.51
TX96CJ		235.5	-9.8	-0.61	218.0	-26.0	-1.49
U23K2J		235.0	-10.3	-0.65	228.4	-15.6	-0.89
UDJ6MZ		250.2	4.9	0.31	237.1	-6.9	-0.40
UPCNZK		245.0	-0.3	-0.02	237.0	-7.0	-0.40
UPDJKC		254.5	9.2	0.57	262.0	18.0	1.03
UU97MD		260.5	15.2	0.95	252.5	8.5	0.48
V4MPB2		262.6	17.2	1.08	253.3	9.3	0.53
VT76PJ		243.5	-1.8	-0.11	226.0	-18.0	-1.03
WHK2HK		242.0	-3.4	-0.21	244.8	0.7	0.04
WHZHCD		256.5	11.2	0.70	246.0	2.0	0.11
WJV34J		259.5	14.2	0.89	259.0	15.0	0.86
X43RW8	X	314.0	68.7	4.29	310.5	66.5	3.81
XR7PRD		263.5	18.2	1.14	253.5	9.5	0.54
YLFQGV		243.0	-2.3	-0.14	234.0	-10.0	-0.58
YMUZRG		245.1	-0.2	-0.01	252.4	8.3	0.48
YPV2RD		249.0	3.7	0.23	233.0	-11.0	-0.63
YUVDPY		261.0	15.7	0.98	259.0	15.0	0.86
Z6JY7E		221.5	-23.8	-1.48	233.6	-10.4	-0.60

WebCode	Data Flag	Sample B61-B62 Lab Mean	Sample B61-B62 Diff from Grand Mean	Sample B61-B62 CPV	Sample B63-B64 Lab Mean	Sample B63-B64 Diff from Grand Mean	Sample B63-B64 CPV
Z7HY9Y		255.2	9.9	0.62	257.5	13.4	0.77
ZJ4ECY		253.5	8.2	0.51	261.0	17.0	0.97

Summary Statistics

	Sample B61-B62	Sample B63-B64
Grand Means	245.30 psi	244.05 psi
Stnd Dev Btwn Labs	16.02 psi	17.45 psi

Statistics based on 73 of 77 reporting participants

Summary Statistics in SI Units

	Sample B61-B62	Sample B63-B64
Grand Means	1.6913 MPa	1.6800 MPa
Stnd Dev Btwn Labs	0.1104 MPa	0.1200 MPa

Statistics based on 73 of 77 reporting participants

Samples B61-B62: Polyisoprene Compound & B63-B64: Polyisoprene Compound

Comments on Assigned Data Flags for Test #608

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

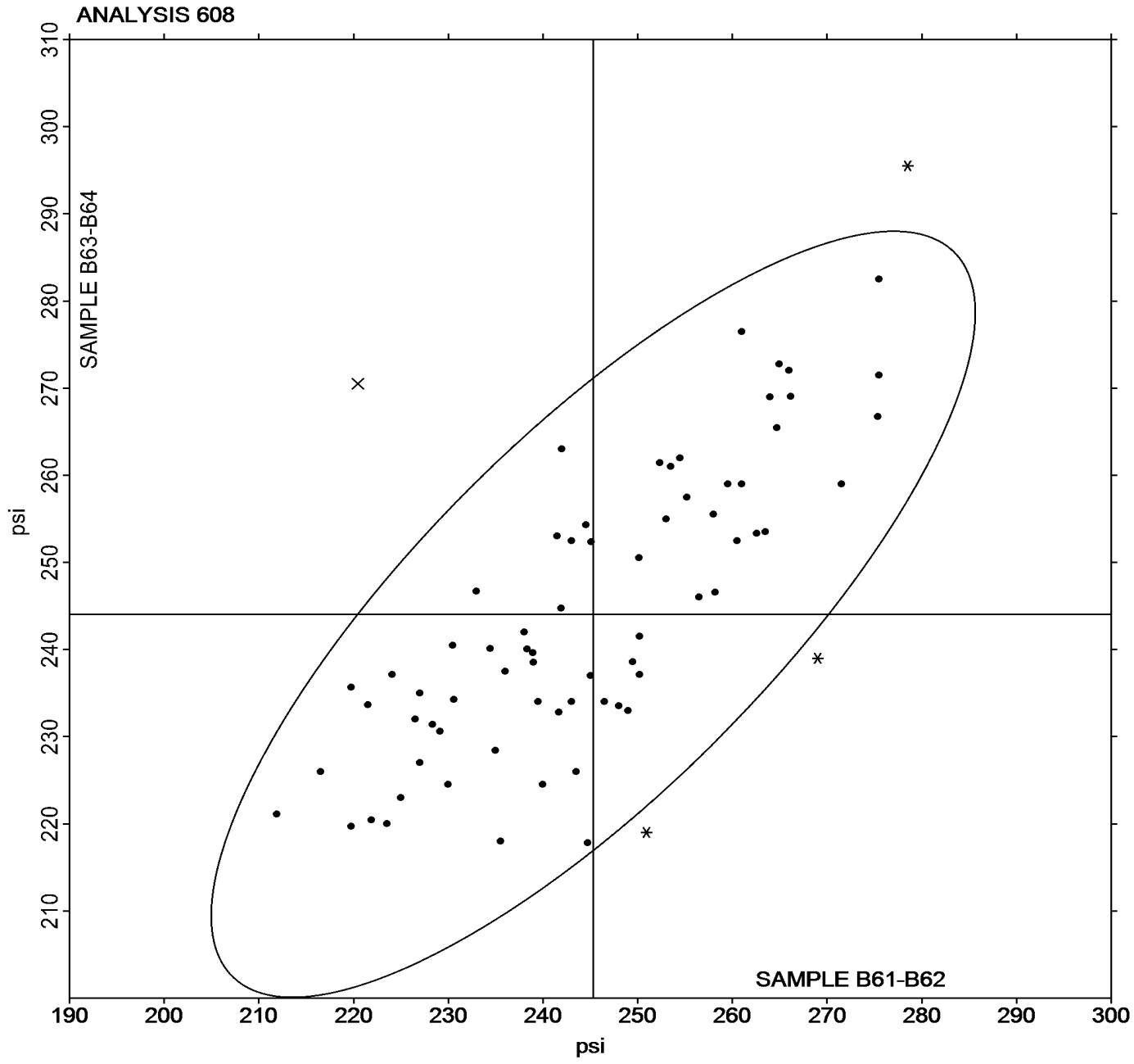
GKMTVT (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample group B61-B62.

RD6Y9K (X) - Data for all samples are low. Possible Systematic Error.

X43RW8 (X) - Data for all samples are high. Possible Systematic Error.

Grand Mean Sample **B61-B62** = 245.30 psi

Grand Mean Sample **B63-B64** = 244.05 psi



WebCode	Data Flag	Sample B61-B62 Lab Mean	Diff from Grand Mean	CPV	Sample B63-B64 Lab Mean	Diff from Grand Mean	CPV	Instr Code
2NEN38		52.75	0.77	0.46	52.30	0.19	0.12	BT
3ATVQ7		50.75	-1.23	-0.73	51.60	-0.51	-0.32	BT
3EMPN8		53.80	1.82	1.08	53.95	1.84	1.16	BT
3P6A94		51.50	-0.48	-0.28	50.50	-1.61	-1.02	BT
3Z3BL8		50.50	-1.48	-0.88	50.00	-2.11	-1.33	BT
47MREA		56.00	4.02	2.38	56.00	3.89	2.46	BT
4FDDK8		49.15	-2.83	-1.68	49.80	-2.31	-1.46	BT
4N4WZ2		50.90	-1.08	-0.64	52.05	-0.06	-0.04	XX
6739A3		53.00	1.02	0.60	53.00	0.89	0.56	BT
6BDLQ2		50.10	-1.88	-1.11	49.95	-2.16	-1.37	BT
6C934X		49.05	-2.93	-1.74	49.80	-2.31	-1.46	BT
6QAEYX		51.90	-0.08	-0.05	51.95	-0.16	-0.10	BT
7ECXM2		50.30	-1.68	-1.00	50.95	-1.16	-0.73	BT
7LP9FT		51.45	-0.53	-0.31	52.30	0.19	0.12	BT
7R2Y49	X	58.50	6.52	3.86	59.10	6.99	4.41	BT
7WWNLZ	*	52.50	0.52	0.31	51.00	-1.11	-0.70	BT
83G7F3		51.00	-0.98	-0.58	51.50	-0.61	-0.39	BT
98779N	*	48.50	-3.48	-2.06	50.00	-2.11	-1.33	HH
9DTT4T		53.00	1.02	0.60	53.00	0.89	0.56	BT
9L3GGR		53.00	1.02	0.60	53.00	0.89	0.56	HH
9TKQ6N		54.00	2.02	1.20	53.50	1.39	0.88	BT
9WK2Y4		52.05	0.07	0.04	51.80	-0.31	-0.20	BT
ACGFYW		52.60	0.62	0.37	52.50	0.39	0.25	BT
AWZHUW		51.45	-0.53	-0.31	52.30	0.19	0.12	HH
BD826T		49.00	-2.98	-1.77	48.75	-3.36	-2.12	HH
BG3PLZ		51.00	-0.98	-0.58	52.00	-0.11	-0.07	BT
C3E6GW		49.50	-2.48	-1.47	51.00	-1.11	-0.70	BT
C3F3RT		51.50	-0.48	-0.28	52.00	-0.11	-0.07	BT
CEC7VM		50.95	-1.03	-0.61	50.55	-1.56	-0.99	BT
D3A6VM		50.50	-1.48	-0.88	51.50	-0.61	-0.39	BT
D3EPJQ		53.30	1.32	0.78	53.05	0.94	0.59	BT
DF3QZX		54.00	2.02	1.20	54.00	1.89	1.19	HH
DJJWYT	*	56.25	4.27	2.53	56.20	4.09	2.58	HH
DU6Z7R		52.75	0.77	0.46	52.45	0.34	0.21	BT
DYBUX3		52.50	0.52	0.31	53.00	0.89	0.56	BT
DYBUZM		52.00	0.02	0.01	52.00	-0.11	-0.07	HH
E8KHC2		53.75	1.77	1.05	54.60	2.49	1.57	BT
E9F2D3	X	54.00	2.02	1.20	52.00	-0.11	-0.07	BT

WebCode	Data Flag	Sample B61-B62 Lab Mean	Diff from Grand Mean	CPV	Sample B63-B64 Lab Mean	Diff from Grand Mean	CPV	Instr Code
EAQZCH		52.80	0.82	0.49	52.40	0.29	0.18	BT
G9QKCP		55.00	3.02	1.79	55.00	2.89	1.82	HH
GA69DG		53.50	1.52	0.90	52.95	0.84	0.53	HH
GK3AQL		52.00	0.02	0.01	52.00	-0.11	-0.07	BT
GKMTVT		50.15	-1.83	-1.08	50.55	-1.56	-0.99	BT
GXMPUK		51.20	-0.78	-0.46	52.25	0.14	0.09	BT
H66GHP		52.60	0.62	0.37	52.40	0.29	0.18	BT
HZV42Q		51.00	-0.98	-0.58	50.50	-1.61	-1.02	BT
JFG48G		49.50	-2.48	-1.47	50.00	-2.11	-1.33	BT
JQ48CV		55.00	3.02	1.79	54.50	2.39	1.51	BT
KAUDKL		50.90	-1.08	-0.64	52.05	-0.06	-0.04	BT
L8LNVH		52.50	0.52	0.31	53.00	0.89	0.56	BT
LMDKUR		52.50	0.52	0.31	53.00	0.89	0.56	HH
LMDLWD		52.00	0.02	0.01	52.50	0.39	0.25	BT
LPGGFF		51.75	-0.23	-0.14	51.50	-0.61	-0.39	BT
LQCWTC		55.50	3.52	2.08	55.00	2.89	1.82	BT
NYLXBJ		52.50	0.52	0.31	53.00	0.89	0.56	HH
P862MB		48.50	-3.48	-2.06	49.00	-3.11	-1.97	BT
Q7TLTA		52.50	0.52	0.31	53.00	0.89	0.56	HH
QMF2W7	X	13.90	-38.08	-22.56	14.35	-37.76	-23.86	BT
R4JV47		51.50	-0.48	-0.28	51.00	-1.11	-0.70	BT
R9EP28		53.00	1.02	0.60	53.00	0.89	0.56	BT
RD6Y9K		54.50	2.52	1.49	54.60	2.49	1.57	BT
RD6YB6		52.05	0.07	0.04	53.05	0.94	0.59	BT
RW2MFA		48.10	-3.88	-2.30	48.20	-3.91	-2.47	BT
TBX2DH		51.35	-0.63	-0.37	51.75	-0.36	-0.23	BT
TX96CJ		51.50	-0.48	-0.28	50.50	-1.61	-1.02	BT
U23K2J		51.05	-0.93	-0.55	51.70	-0.41	-0.26	BT
UDJ6MZ		50.35	-1.63	-0.97	50.45	-1.66	-1.05	BT
UPCNZK		53.50	1.52	0.90	53.50	1.39	0.88	HH
UU97MD		52.80	0.82	0.49	52.85	0.74	0.47	BT
V4MPB2		50.95	-1.03	-0.61	51.00	-1.11	-0.70	BT
VT76PJ		53.00	1.02	0.60	52.00	-0.11	-0.07	BT
WHK2HK		52.40	0.42	0.25	52.60	0.49	0.31	BT
WHZHCD	*	50.95	-1.03	-0.61	49.70	-2.41	-1.52	BT
WJV34J		53.00	1.02	0.60	53.50	1.39	0.88	BT
X43RW8		51.60	-0.38	-0.23	51.65	-0.46	-0.29	BT

Rubber Interlaboratory Testing Program

Analysis 620

Hardness (Shore A/Type A)

WebCode	Data Flag	Sample B61-B62 Lab Mean	Sample B61-B62 Diff from Grand Mean	Sample B61-B62 CPV	Sample B63-B64 Lab Mean	Sample B63-B64 Diff from Grand Mean	Sample B63-B64 CPV	Instr Code
XR7PRD		51.80	-0.18	-0.11	51.55	-0.56	-0.36	BT
YLFQGV		52.50	0.52	0.31	52.50	0.39	0.25	XX
YMUZRG		53.90	1.92	1.14	53.50	1.39	0.88	XX
YPV2RD		51.50	-0.48	-0.28	51.50	-0.61	-0.39	HH
YUVDPY		51.50	-0.48	-0.28	52.00	-0.11	-0.07	HH
Z7HY9Y		54.55	2.57	1.52	54.80	2.69	1.70	BT
ZJ4ECY		51.50	-0.48	-0.28	51.50	-0.61	-0.39	BT

Summary Statistics

	Sample B61-B62	Sample B63-B64
Grand Means	51.981 Type A	52.112 Type A
Stnd Dev Btwn Labs	1.688 Type A	1.583 Type A

Statistics based on 79 of 82 reporting participants

Samples B61-B62: Polyisoprene Compound & B63-B64: Polyisoprene Compound

Comments on Assigned Data Flags for Test #620

7R2Y49 (X) - Data for all samples are high. Possible Systematic Error.

E9F2D3 (X) - Inconsistent in testing between samples.

QMF2W7 (X) - Extreme Data.

Key to Instrument Codes Reported by Participants

BT Benchtop

HH Handheld

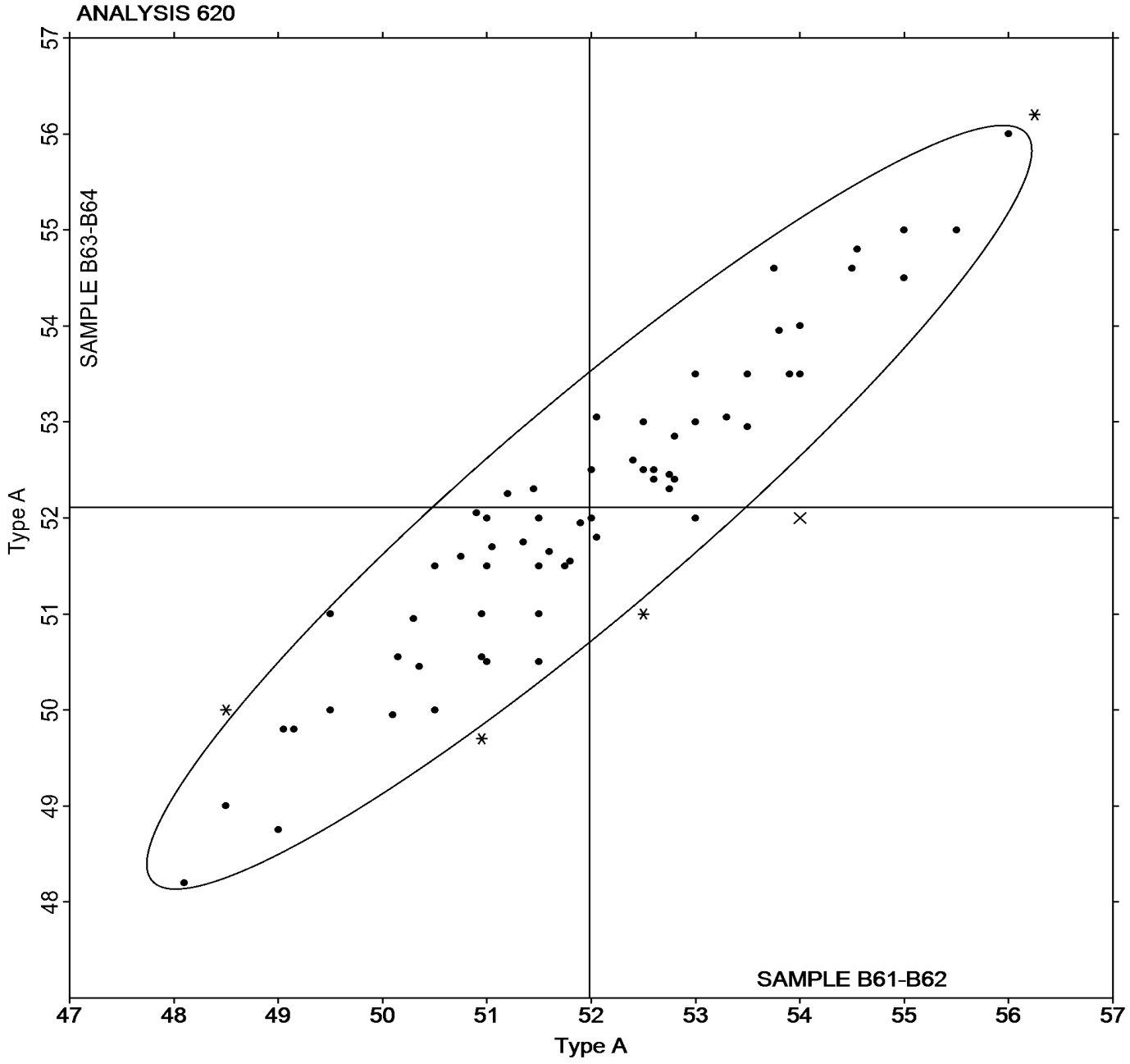
XX Specify Benchtop or Handheld Instrument

Results by Reading Time (as reported by laboratory)

Reading Time	Sample B61-B62 *Polyisoprene Compound* Group Mean	Btwn Lab STD	Diff from GM	Sample B63-B64 *Polyisoprene Compound* Group Mean	Btwn Lab STD	Diff from GM	Labs Incl	/ Rpt
Reading time not reported	51.62	0.81	-0.36	52.28	0.23	0.17	3	3
Readings taken within 0 - 5 seconds	52.15	1.54	0.17	52.28	1.46	0.17	54	58
Readings taken at 5 seconds	51.32	1.81	-0.66	51.50	1.61	-0.61	5	6
Readings taken after 5+ seconds	50.24	1.68	-1.74	50.39	1.45	-1.72	6	7
Maximum hardness indicator used	52.76	1.29	0.78	52.89	1.12	0.78	7	8

Grand Mean Sample **B61-B62** = 51.981 Type A

Grand Mean Sample **B63-B64** = 52.112 Type A



WebCode	Data Flag	Sample B61-B62 Lab Mean	Diff from Grand Mean	CPV	Sample B63-B64 Lab Mean	Diff from Grand Mean	CPV
2NEN38		1.135	0.002	0.69	1.135	0.002	0.85
3ATVQ7		1.136	0.003	1.08	1.135	0.002	0.64
3EMPN8		1.133	0.000	0.10	1.132	-0.001	-0.37
3P6A94		1.133	0.000	0.10	1.133	0.000	-0.17
47MREA		1.139	0.006	2.25	1.138	0.005	1.88
4N4WZ2		1.133	0.000	-0.06	1.131	-0.002	-0.92
6739A3		1.136	0.003	1.21	1.136	0.003	1.07
6C934X		1.133	0.000	0.04	1.134	0.001	0.24
6QAEYX		1.134	0.001	0.41	1.134	0.001	0.28
7ECXM2	*	1.128	-0.005	-1.78	1.126	-0.007	-2.91
7LP9FT		1.133	0.001	0.27	1.133	0.001	0.22
7R2Y49		1.136	0.003	1.27	1.137	0.004	1.46
7WWNLZ		1.132	-0.001	-0.29	1.134	0.001	0.44
83G7F3	*	1.128	-0.005	-2.04	1.133	0.000	0.03
98779N		1.135	0.002	0.88	1.136	0.003	1.05
9L3GGR		1.128	-0.005	-1.84	1.130	-0.003	-1.39
9TKQ6N	X	1.225	0.092	36.15	1.135	0.002	0.64
9WK2Y4	*	1.131	-0.002	-0.67	1.136	0.003	1.23
AWZHUW		1.133	0.000	-0.06	1.131	-0.002	-0.92
BD826T		1.130	-0.003	-1.14	1.131	-0.002	-0.98
BG3PLZ		1.132	-0.001	-0.35	1.131	-0.002	-0.66
C3E6GW	*	1.131	-0.002	-0.69	1.137	0.004	1.46
C3F3RT		1.135	0.002	0.69	1.134	0.001	0.44
CEC7VM		1.131	-0.002	-0.88	1.131	-0.002	-0.98
CHCGP2		1.134	0.001	0.59	1.134	0.001	0.58
D3EPJQ		1.133	0.000	0.12	1.132	-0.001	-0.27
DF3QZX		1.128	-0.005	-1.76	1.131	-0.002	-0.96
DJJWYT		1.131	-0.002	-0.78	1.133	0.000	-0.15
DU6Z7R		1.134	0.002	0.67	1.134	0.001	0.34
DYBUZM		1.129	-0.003	-1.31	1.130	-0.003	-1.33
E8KHC2		1.132	-0.001	-0.29	1.133	0.000	-0.17
E9F2D3		1.135	0.002	0.69	1.135	0.002	0.85
EAQZCH		1.134	0.001	0.29	1.132	-0.001	-0.23
G9QKCP		1.131	-0.002	-0.88	1.129	-0.004	-1.59
GA69DG		1.131	-0.002	-0.88	1.131	-0.002	-0.78
GK3AQL		1.128	-0.005	-1.86	1.131	-0.002	-0.78
GXMPUK		1.133	0.000	0.15	1.134	0.001	0.55
H66GHP		1.135	0.002	0.88	1.135	0.002	0.85

WebCode	Data Flag	Sample B61-B62 Lab Mean	Diff from Grand Mean	CPV	Sample B63-B64 Lab Mean	Diff from Grand Mean	CPV
HZV42Q		1.137	0.004	1.67	1.133	0.000	0.03
JFG48G		1.132	-0.001	-0.29	1.133	0.000	-0.17
JQ48CV		1.137	0.004	1.57	1.137	0.004	1.66
KAUDKL		1.133	0.000	-0.06	1.131	-0.002	-0.92
LMDKUR		1.133	0.000	-0.10	1.132	-0.001	-0.58
LPGGFF		1.137	0.004	1.55	1.136	0.004	1.44
LQCWTC		1.131	-0.002	-0.61	1.132	-0.001	-0.39
P862MB	X	1.110	-0.023	-9.11	1.106	-0.027	-11.14
Q7TLTA		1.131	-0.002	-0.69	1.131	-0.002	-0.98
QMF2W7		1.131	-0.002	-0.69	1.131	-0.002	-0.98
R4JV47		1.128	-0.005	-2.06	1.131	-0.002	-0.98
RD6Y9K	X	1.124	-0.009	-3.62	1.124	-0.009	-3.62
TBX2DH		1.136	0.003	1.14	1.135	0.002	0.93
TX96CJ		1.135	0.002	0.71	1.135	0.002	0.83
UPCNZK		1.132	-0.001	-0.49	1.130	-0.003	-1.10
UPDJKC		1.133	0.000	-0.10	1.135	0.002	0.64
UU97MD		1.137	0.004	1.67	1.137	0.004	1.46
V4MPB2		1.131	-0.002	-0.69	1.133	0.000	0.03
VT76PJ	*	1.133	0.000	-0.10	1.129	-0.004	-1.79
WHK2HK		1.133	0.000	0.10	1.133	0.000	-0.17
WJV34J		1.133	0.000	0.10	1.133	0.000	-0.17
XR7PRD		1.132	-0.001	-0.29	1.132	-0.001	-0.37
YLFQGV		1.137	0.004	1.49	1.137	0.004	1.66
YMUZRG		1.132	-0.001	-0.25	1.131	-0.002	-0.74
YPV2RD		1.134	0.001	0.49	1.135	0.002	0.64
YUVDPY		1.136	0.003	1.35	1.137	0.004	1.62
ZJ4ECY		1.132	-0.001	-0.20	1.132	-0.001	-0.49

Summary Statistics

	Sample B61-B62		Sample B63-B64	
Grand Means	1.1328	g/cm^3 (Mg/m^3)	1.1329	g/cm^3 (Mg/m^3)
Stnd Dev Btwn Labs	0.0026	g/cm^3 (Mg/m^3)	0.0025	g/cm^3 (Mg/m^3)

Statistics based on 62 of 65 reporting participants

Samples B61-B62: Polyisoprene Compound & B63-B64: Polyisoprene Compound

Comments on Assigned Data Flags for Test #621

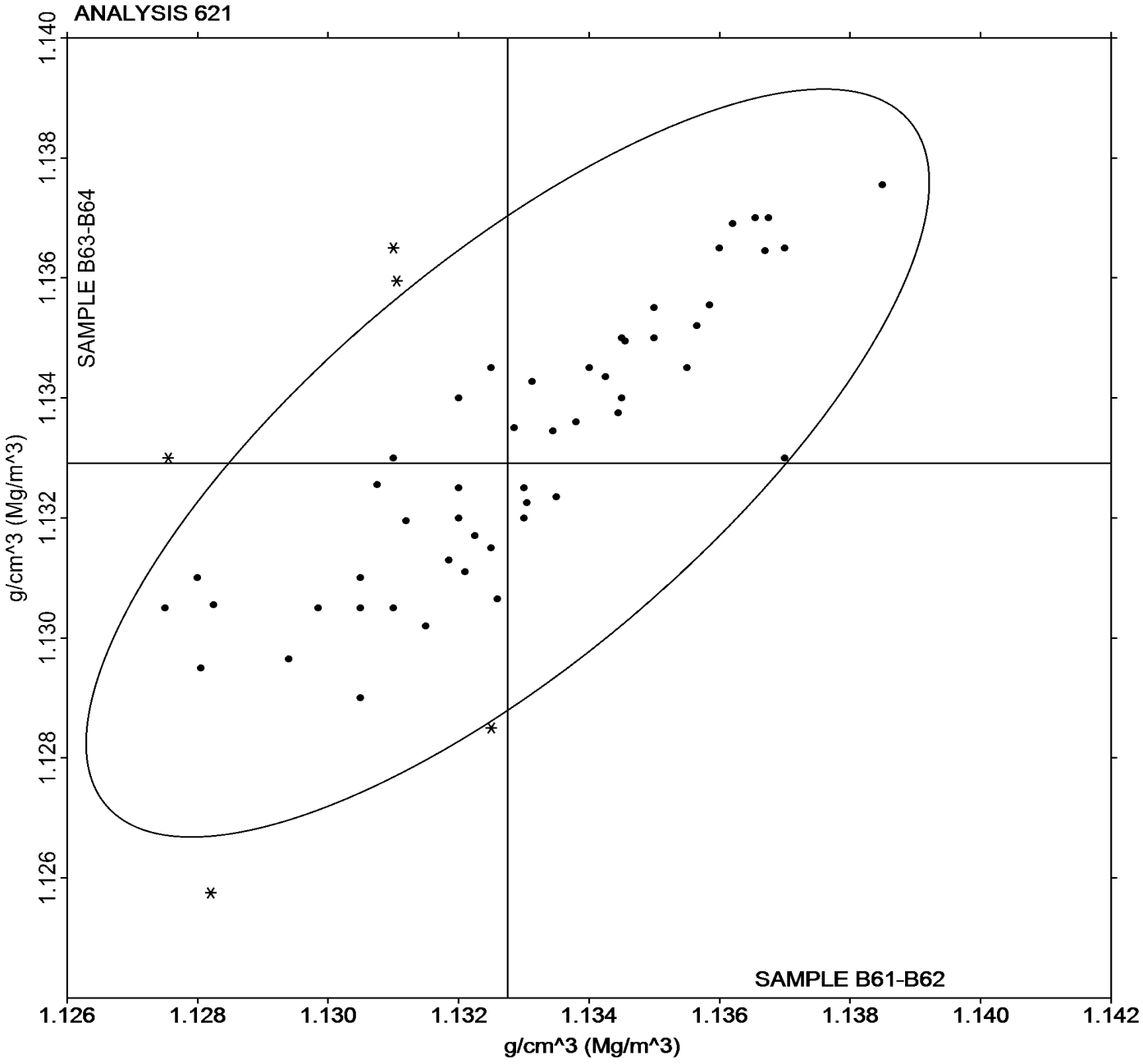
9TKQ6N (X) - Extreme Data for sample group B61-B62.

P862MB (X) - Data for all samples are low. Inconsistent within the determinations of each sample group.

RD6Y9K (X) - Data for all samples are low. Possible Systematic Error.

Grand Mean Sample **B61-B62** = 1.1328 g/cm^3 (Mg/m^3)

Grand Mean Sample **B63-B64** = 1.1329 g/cm^3 (Mg/m^3)



WebCode	Data Flag	Sample HB61-HB62 Lab Mean	Diff from Grand Mean	CPV	Sample HB63-HB64 Lab Mean	Diff from Grand Mean	CPV	Instr Code
2NEN38		73.35	-0.38	-0.15	82.80	0.05	0.03	BT
3EH9Q9		72.00	-1.73	-0.70	83.00	0.25	0.13	BT
4R7UBU		75.00	1.27	0.52	84.50	1.75	0.91	BT
6C934X		69.75	-3.98	-1.61	80.65	-2.10	-1.09	BT
6F8FN3		71.15	-2.58	-1.05	79.85	-2.90	-1.50	BT
6R7UA9		74.00	0.27	0.11	81.00	-1.75	-0.91	BT
9TKQ6N		76.50	2.77	1.12	85.50	2.75	1.43	BT
ACGFYW		71.00	-2.73	-1.11	81.85	-0.90	-0.47	BT
B3ZGHQ		70.65	-3.08	-1.25	82.20	-0.55	-0.28	BT
CC7NXQ		76.00	2.27	0.92	84.00	1.25	0.65	BT
CLTMNW		75.35	1.62	0.66	84.50	1.75	0.91	HH
DYBUX3		73.50	-0.23	-0.09	84.00	1.25	0.65	BT
EAQZCH		74.90	1.17	0.48	83.80	1.05	0.55	BT
GA69DG		76.30	2.57	1.04	84.20	1.45	0.75	BT
H66GHP		73.50	-0.23	-0.09	83.60	0.85	0.44	BT
K4JPKP		75.85	2.12	0.86	82.85	0.10	0.05	BT
LQCWTC		76.05	2.32	0.94	83.15	0.40	0.21	BT
LZ4E8L		77.55	3.82	1.55	85.15	2.40	1.25	HH
P862MB		75.00	1.27	0.52	85.00	2.25	1.17	HH
QGA7D7	X	71.50	-2.23	-0.90	87.00	4.25	2.21	BT
QMF2W7		70.85	-2.88	-1.17	80.75	-2.00	-1.04	BT
R9EP28		74.00	0.27	0.11	83.00	0.25	0.13	XX
RD6Y9K	X	99.95	26.22	10.64	100.40	17.65	9.16	HH
RD6YB6		73.45	-0.28	-0.11	81.20	-1.55	-0.80	BT
RHG8CA	*	66.55	-7.18	-2.91	76.80	-5.95	-3.09	BT
RW2MFA		73.15	-0.58	-0.23	81.15	-1.60	-0.83	BT
RWW6GB		75.70	1.97	0.80	83.60	0.85	0.44	BT
TBX2DH		72.00	-1.73	-0.70	81.50	-1.25	-0.65	BT
U23HCE		78.00	4.27	1.73	86.50	3.75	1.95	HH
UDJ6MZ		70.60	-3.13	-1.27	81.25	-1.50	-0.78	BT
VT76PJ		74.00	0.27	0.11	83.00	0.25	0.13	BT
WJV34J		73.00	-0.73	-0.29	81.00	-1.75	-0.91	BT
XFFTTZ		72.50	-1.23	-0.50	81.05	-1.70	-0.88	BT
XUC8Q9		76.50	2.77	1.12	84.50	1.75	0.91	HH
YLFQEA		74.00	0.27	0.11	82.50	-0.25	-0.13	HH
ZADT4F		75.00	1.27	0.52	84.00	1.25	0.65	HH

Summary Statistics		
Grand Means		
	73.726 Type D	82.747 Type D
Stnd Dev Btwn Labs		
	2.465 Type D	1.927 Type D
		Statistics based on 34 of 36 reporting participants

Samples HB61-HB62: Hardness Disc & HB63-HB64: Hardness Disc

Comments on Assigned Data Flags for Test #625

QGA7D7 (X) - Inconsistent in testing between samples.

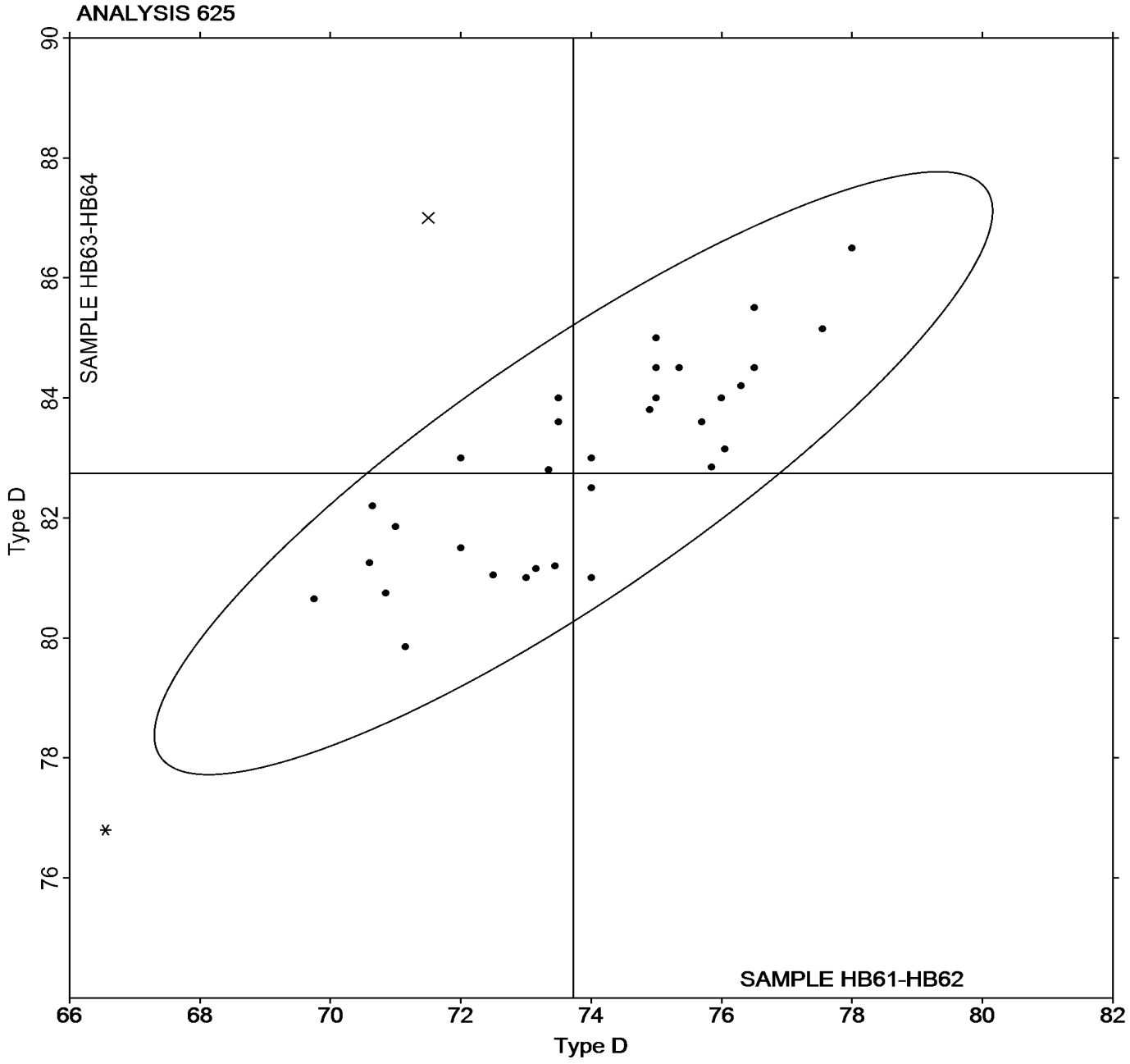
RD6Y9K (X) - Data for all Samples are high. Possible systematic error.

Key to Instrument Codes Reported by Participants

BT	Benchtop	HH	Handheld
XX	Specify Benchtop or Handheld Instrument		

Grand Mean Sample **HB61-HB62** = 73.726 Type D

Grand Mean Sample **HB63-HB64** = 82.747 Type D



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

WebCode	Data Flag	Sample B61-B62 Lab Mean	Sample B61-B62 Diff from Grand Mean	Sample B61-B62 CPV	Sample K61-K62 Lab Mean	Sample K61-K62 Diff from Grand Mean	Sample K61-K62 CPV
2NEN38		3,074.8	-304.8	-1.65	3,132.8	-53.2	-0.21
3P6A94		3,424.0	44.4	0.24	3,541.0	355.0	1.40
9WK2Y4		3,793.0	413.4	2.24	3,725.0	539.0	2.13
ABLXXV	M	No data reported for this sample			2,916.3	-269.7	-1.07
DJJWYT		3,261.5	-118.1	-0.64	2,959.5	-226.5	-0.90
DU6Z7R		3,437.4	57.8	0.31	3,092.5	-93.6	-0.37
EAQZCH		3,095.1	-284.5	-1.54	2,895.7	-290.3	-1.15
G9QKCP		3,527.8	148.1	0.80	3,473.8	287.7	1.14
GXMPUK		3,409.1	29.5	0.16	2,881.2	-304.8	-1.21
KAUDKL		3,559.1	179.5	0.97	3,409.6	223.6	0.88
L8LNVH		3,365.5	-14.1	-0.08	3,085.5	-100.5	-0.40
LMDKUR		3,277.9	-101.8	-0.55	3,335.9	149.8	0.59
LQCWTC		3,392.5	12.9	0.07	3,189.5	3.5	0.01
P862MB		3,340.0	-39.6	-0.22	3,283.5	97.5	0.39
RD6Y9K		3,283.5	-96.1	-0.52	3,146.0	-40.0	-0.16
UU97MD		3,338.0	-41.6	-0.23	3,204.0	18.0	0.07
WHK2HK		3,504.2	124.6	0.68	2,685.8	-500.2	-1.98
YPV2RD		3,620.0	240.4	1.30	3,160.0	-26.0	-0.10
Z7HY9Y		3,130.2	-249.4	-1.35	3,147.6	-38.5	-0.15

Summary Statistics

	Sample B61-B62	Sample K61-K62
Grand Means	3,379.65 psi	3,186.05 psi
Stnd Dev Btwn Labs	184.35 psi	252.73 psi

Statistics based on 18 of 19 reporting participants

Summary Statistics in SI Units

	Sample B61-B62	Sample K61-K62
Grand Means	23.302 MPa	21.970 MPa
Stnd Dev Btwn Labs	1.271 MPa	1.740 MPa

Statistics based on 18 of 19 reporting participants

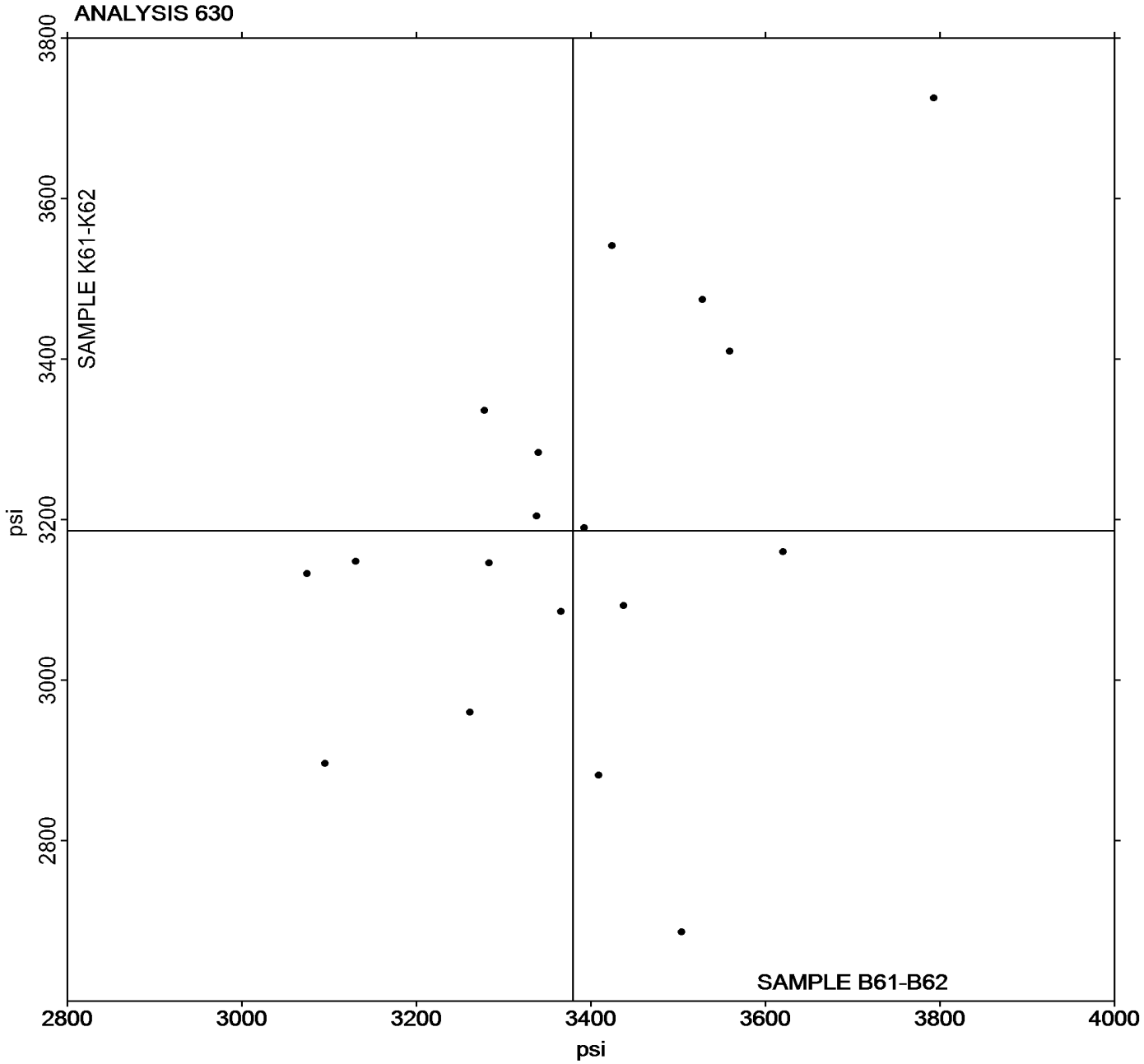
Samples B61-B62: Polyisoprene Compound & K61-K62: Polyisoprene Compound

Comments on Assigned Data Flags for Test #630

ABLXXV (M) - Participant did not submit data for sample group B61-B62.

Grand Mean Sample **B61-B62** = 3,379.65 psi

Grand Mean Sample **K61-K62** = 3,186.05 psi



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

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

WebCode	Data Flag	Sample B61-B62 Lab Mean	Sample B61-B62 Diff from Grand Mean	Sample B61-B62 CPV	Sample K61-K62 Lab Mean	Sample K61-K62 Diff from Grand Mean	Sample K61-K62 CPV
2NEN38		531.9	-54.6	-1.24	554.9	-41.7	-0.98
3P6A94		562.5	-23.9	-0.54	576.5	-20.1	-0.47
9WK2Y4		596.5	10.1	0.23	594.0	-2.6	-0.06
ABLXXV	M	No data reported for this sample			563.5	-33.1	-0.78
DJJWYT		556.5	-29.9	-0.68	585.5	-11.1	-0.26
DU6Z7R		599.0	12.6	0.29	583.0	-13.6	-0.32
EAQZCH		537.8	-48.6	-1.11	557.0	-39.6	-0.93
G9QKCP		604.5	18.1	0.41	602.6	6.0	0.14
GXMPUK		561.5	-24.9	-0.57	566.5	-30.1	-0.71
KAUDKL		590.7	4.2	0.10	594.5	-2.1	-0.05
L8LNVH		579.5	-6.9	-0.16	568.0	-28.6	-0.67
LMDKUR		606.0	19.6	0.45	583.0	-13.6	-0.32
LQCWTC	*	596.5	10.1	0.23	658.9	62.3	1.47
P862MB		542.0	-44.4	-1.01	560.0	-36.6	-0.86
RD6Y9K	*	729.5	143.1	3.26	731.5	134.9	3.18
UU97MD		590.0	3.6	0.08	611.5	14.9	0.35
WHK2HK		595.3	8.8	0.20	607.0	10.4	0.25
YPV2RD		617.5	31.1	0.71	621.5	24.9	0.59
Z7HY9Y		558.9	-27.6	-0.63	582.6	-14.0	-0.33

Summary Statistics

	Sample B61-B62	Sample K61-K62
Grand Means	586.44 percent	596.57 percent
Stnd Dev Btwn Labs	43.94 percent	42.39 percent

Statistics based on 18 of 19 reporting participants

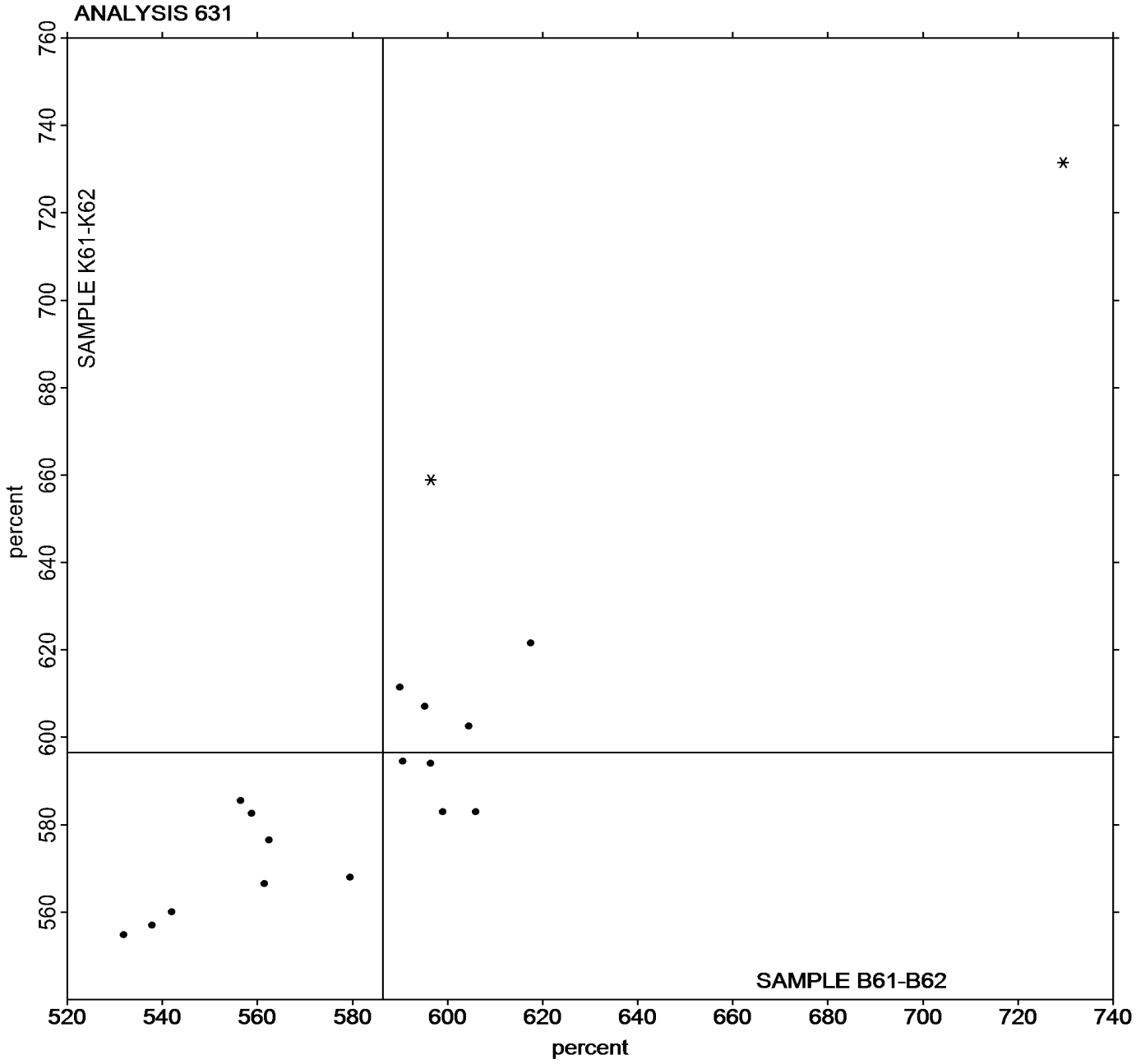
Samples B61-B62: Polyisoprene Compound & K61-K62: Polyisoprene Compound

Comments on Assigned Data Flags for Test #631

ABLXXV (M) - Participant did not submit data for sample group B61-B62.

Grand Mean Sample **B61-B62** = 586.44 percent

Grand Mean Sample **K61-K62** = 596.57 percent



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

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

WebCode	Data Flag	Sample B61-B62 Lab Mean	Sample B61-B62 Diff from Grand Mean	Sample B61-B62 CPV	Sample K61-K62 Lab Mean	Sample K61-K62 Diff from Grand Mean	Sample K61-K62 CPV
2NEN38		1,235.0	55.2	0.39	1,087.1	116.0	0.81
3P6A94		1,285.0	105.2	0.74	1,140.5	169.5	1.19
9WK2Y4		1,338.5	158.7	1.12	1,152.5	181.5	1.27
ABLXXV	M	No data reported for this sample			1,059.4	88.3	0.62
DJJWYT		1,364.0	184.2	1.30	1,050.5	79.5	0.56
DU6Z7R		1,198.4	18.5	0.13	950.7	-20.3	-0.14
EAQZCH		1,219.1	39.2	0.28	947.8	-23.2	-0.16
G9QKCP		1,116.2	-63.7	-0.45	1,035.0	64.0	0.45
GXMPUK		1,269.8	90.0	0.64	884.0	-87.0	-0.61
KAUDKL		1,203.4	23.6	0.17	1,110.5	139.5	0.98
L8LNVH		1,191.0	11.2	0.08	985.5	14.5	0.10
LMDKUR		1,051.5	-128.3	-0.91	1,033.4	62.4	0.44
LQCWTC		1,076.5	-103.3	-0.73	773.5	-197.5	-1.38
P862MB		1,203.5	23.7	0.17	1,024.0	53.0	0.37
RD6Y9K	*	710.0	-469.8	-3.32	598.0	-373.0	-2.61
UU97MD		1,178.0	-1.8	-0.01	978.5	7.5	0.05
WHK2HK		1,179.1	-0.7	-0.01	763.5	-207.6	-1.45
YPV2RD		1,181.5	1.7	0.01	932.0	-39.0	-0.27
Z7HY9Y		1,236.2	56.4	0.40	1,031.6	60.5	0.42

Summary Statistics

	Sample B61-B62	Sample K61-K62
Grand Means	1,179.81 psi	971.03 psi
Stnd Dev Btwn Labs	141.32 psi	142.85 psi

Statistics based on 18 of 19 reporting participants

Summary Statistics in SI Units

	Sample B61-B62	Sample K61-K62
Grand Means	8.1345 MPa	6.6900 MPa
Stnd Dev Btwn Labs	0.9744 MPa	0.9800 MPa

Statistics based on 18 of 19 reporting participants

Samples B61-B62: Polyisoprene Compound & K61-K62: Polyisoprene Compound

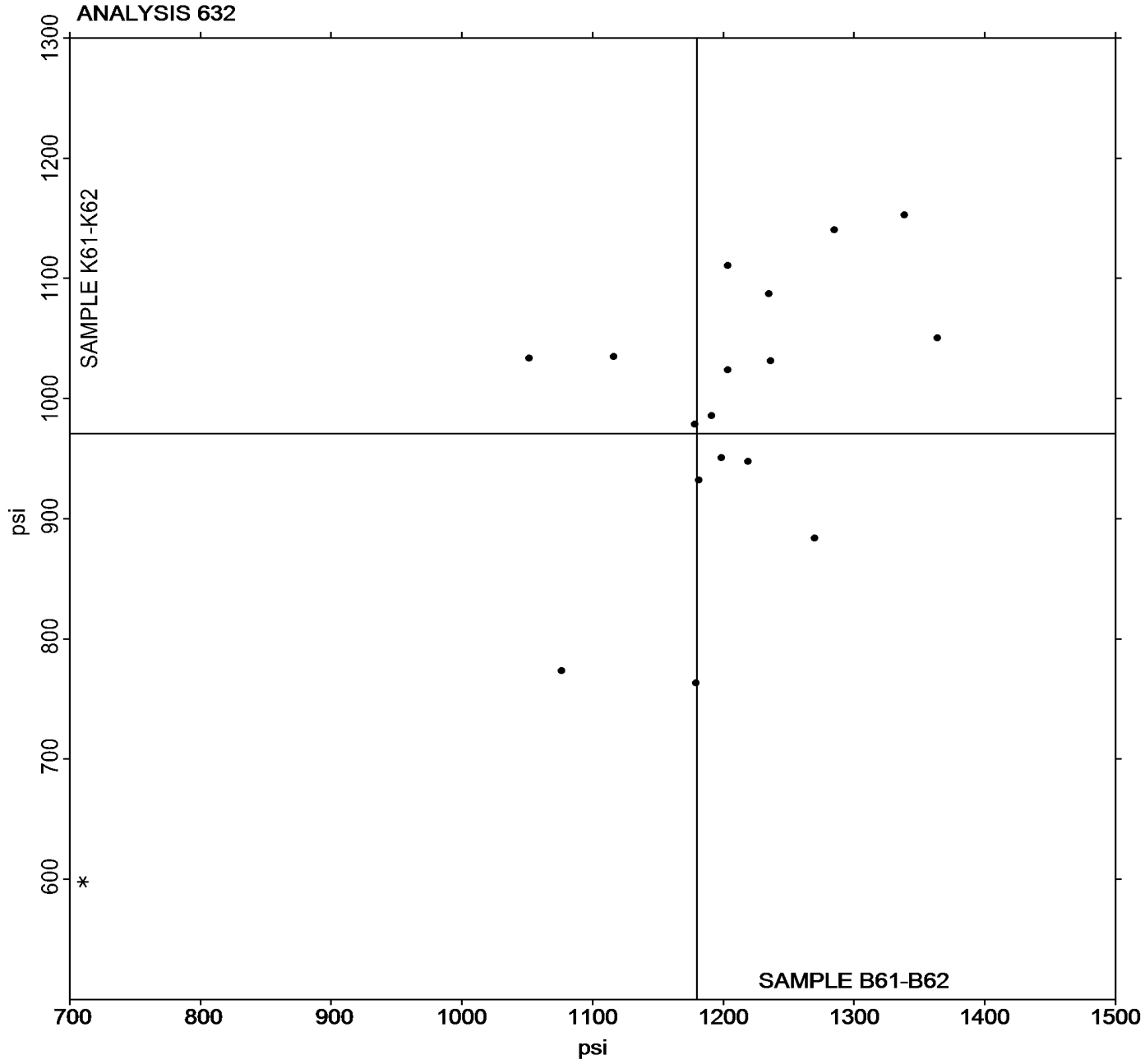
Comments on Assigned Data Flags for Test #632

ABLXXV (M) - Participant did not submit data for sample group B61-B62.

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

Grand Mean Sample **B61-B62** = 1,179.81 psi

Grand Mean Sample **K61-K62** = 971.03 psi



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

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

WebCode	Data Flag	Sample B61-B62 Lab Mean	Sample B61-B62 Diff from Grand Mean	Sample B61-B62 CPV	Sample K61-K62 Lab Mean	Sample K61-K62 Diff from Grand Mean	Sample K61-K62 CPV
2NEN38		249.5	3.7	0.13	232.8	18.5	0.61
3P6A94		258.0	12.3	0.41	245.5	31.2	1.03
9WK2Y4		275.5	29.8	1.00	244.5	30.2	0.99
ABLXXV	M	No data reported for this sample			214.9	0.6	0.02
DJJWYT		305.0	59.3	2.00	263.5	49.2	1.62
DU6Z7R		244.8	-1.0	-0.03	198.2	-16.1	-0.53
EAQZCH		250.9	5.2	0.18	205.2	-9.0	-0.30
G9QKCP		234.4	-11.3	-0.38	229.1	14.8	0.49
GXMPUK		264.7	19.0	0.64	189.3	-25.0	-0.82
KAUDKL		252.3	6.6	0.22	246.7	32.4	1.07
L8LNVH		242.0	-3.7	-0.13	210.0	-4.3	-0.14
LMDKUR		219.7	-26.0	-0.88	221.2	6.9	0.23
LQCWTC		240.0	-5.7	-0.19	192.5	-21.8	-0.71
P862MB		225.0	-20.7	-0.70	202.5	-11.8	-0.39
RD6Y9K	*	154.5	-91.2	-3.08	140.0	-74.3	-2.44
UU97MD		260.5	14.8	0.50	230.5	16.2	0.53
WHK2HK		242.0	-3.8	-0.13	169.2	-45.1	-1.48
YPV2RD		249.0	3.3	0.11	205.0	-9.3	-0.30
Z7HY9Y		255.2	9.5	0.32	231.0	16.7	0.55

Summary Statistics

	Sample B61-B62	Sample K61-K62
Grand Means	245.72 psi	214.25 psi
Stnd Dev Btwn Labs	29.64 psi	30.44 psi

Statistics based on 18 of 19 reporting participants

Summary Statistics in SI Units

	Sample B61-B62	Sample K61-K62
Grand Means	1.6942 MPa	1.4800 MPa
Stnd Dev Btwn Labs	0.2043 MPa	0.2100 MPa

Statistics based on 18 of 19 reporting participants

Samples B61-B62: Polyisoprene Compound & K61-K62: Polyisoprene Compound

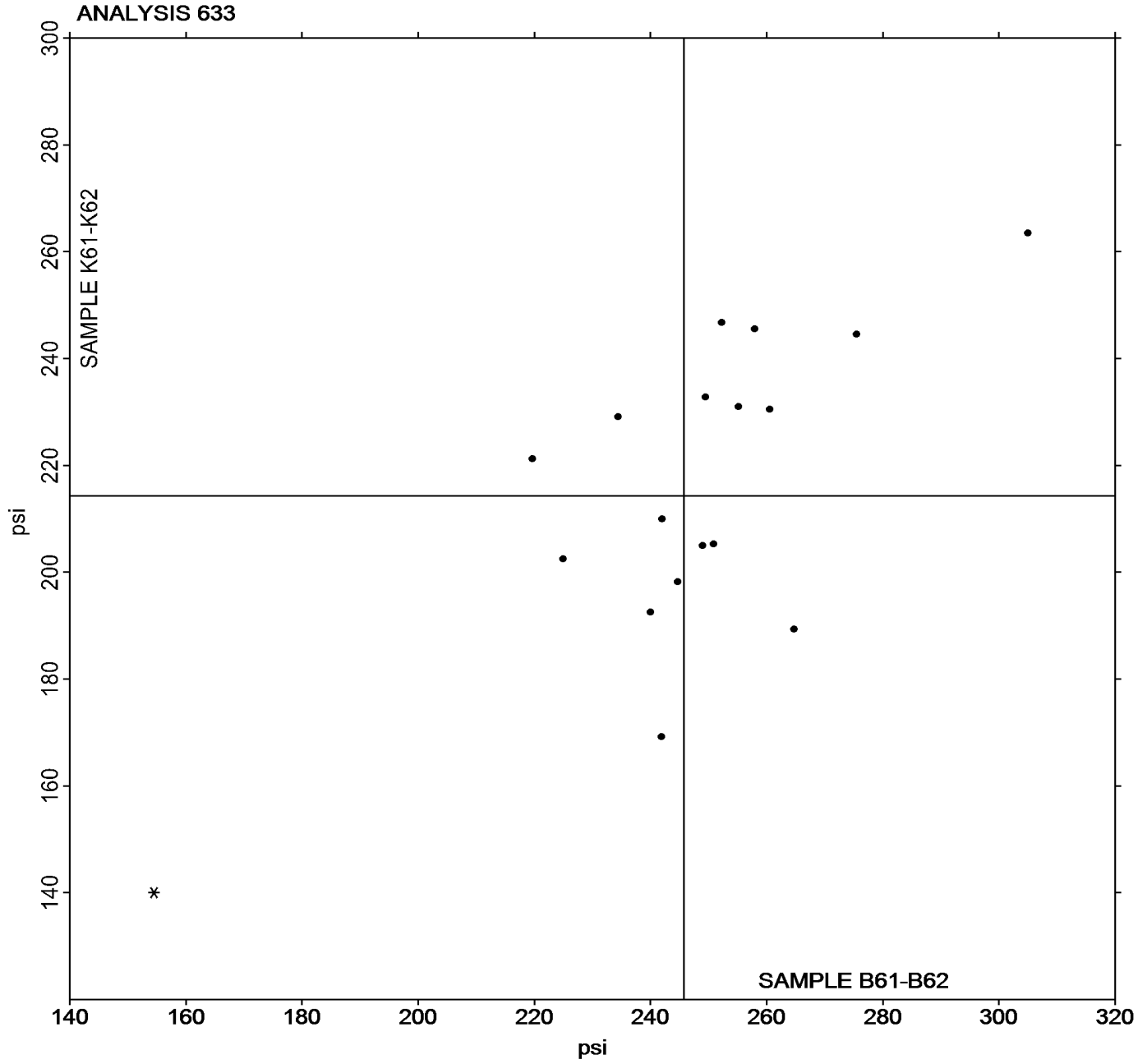
Comments on Assigned Data Flags for Test #633

ABLXXV (M) - Participant did not submit data for sample group B61-B62.

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

Grand Mean Sample **B61-B62** = 245.72 psi

Grand Mean Sample **K61-K62** = 214.25 psi



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

WebCode	Data Flag	Sample O61 Lab Mean	Sample O61 Diff from Grand Mean	Sample O61 CPV	Sample O62 Lab Mean	Sample O62 Diff from Grand Mean	Sample O62 CPV
3ATVQ7		19.33	0.07	0.04	19.03	-0.21	-0.14
3P6A94		21.00	1.74	1.05	19.67	0.42	0.29
46RAC9		20.00	0.74	0.44	19.00	-0.24	-0.17
6C934X		17.63	-1.63	-0.98	17.30	-1.94	-1.33
7ECXM2	X	28.02	8.76	5.28	26.38	7.13	4.87
7LP9FT		20.67	1.40	0.85	18.67	-0.58	-0.39
7WWNLZ		18.33	-0.93	-0.56	17.33	-1.91	-1.30
83G7F3		19.67	0.40	0.24	19.00	-0.24	-0.17
BD826T		19.00	-0.26	-0.16	17.67	-1.58	-1.08
C3E6GW	X	12.00	-7.26	-4.38	17.67	-1.58	-1.08
CEC7VM		18.24	-1.02	-0.62	20.27	1.03	0.70
D3EPJQ		18.06	-1.20	-0.72	18.52	-0.72	-0.49
DJJWYT		16.89	-2.38	-1.43	16.89	-2.36	-1.61
DU6Z7R		17.90	-1.36	-0.82	20.07	0.82	0.56
DYBUZM	X	37.00	17.74	10.69	37.33	18.09	12.35
E8KHC2		19.16	-0.11	-0.06	20.42	1.18	0.81
E9F2D3		22.00	2.74	1.65	21.67	2.42	1.65
EAQZCH		19.37	0.11	0.06	19.14	-0.10	-0.07
GA69DG		19.16	-0.10	-0.06	19.28	0.04	0.03
GXMPUK		23.00	3.74	2.25	22.67	3.42	2.34
HYDAZG		19.22	-0.04	-0.03	18.91	-0.33	-0.23
HZV42Q		20.93	1.67	1.01	22.27	3.02	2.06
JFG48G	X	28.33	9.07	5.47	29.67	10.42	7.11
LMDKUR		20.33	1.07	0.65	20.00	0.76	0.52
LQCWTC		18.09	-1.17	-0.70	20.84	1.60	1.09
P862MB	*	22.95	3.69	2.22	18.65	-0.59	-0.40
RD6Y9K		16.00	-3.26	-1.97	16.00	-3.24	-2.21
RD6YB6		21.50	2.24	1.35	20.97	1.72	1.18
TX96CJ		19.67	0.40	0.24	19.33	0.09	0.06
U23K2J		17.02	-2.24	-1.35	19.71	0.47	0.32
UU97MD		19.10	-0.16	-0.10	19.90	0.66	0.45
V4MPB2		19.17	-0.10	-0.06	18.87	-0.38	-0.26
WHK2HK		17.15	-2.11	-1.27	17.81	-1.43	-0.98
WJV34J		18.00	-1.26	-0.76	18.00	-1.24	-0.85
YMUZRG		17.67	-1.60	-0.96	18.00	-1.24	-0.85
YPV2RD		19.67	0.40	0.24	20.33	1.09	0.74
Z7HY9Y		20.37	1.10	0.67	19.07	-0.18	-0.12
ZJ4ECY		18.67	-0.60	-0.36	19.00	-0.24	-0.17

Summary Statistics		
Grand Means		
	19.262 % Compression	19.243 % Compression
Stnd Dev Btwn Labs		
	1.660 % Compression	1.465 % Compression
		Statistics based on 34 of 38 reporting participants

Samples O61: EPDM Compound & O62: EPDM Compound

Comments on Assigned Data Flags for Test #635

7ECXM2 (X) - Data for all samples are high.

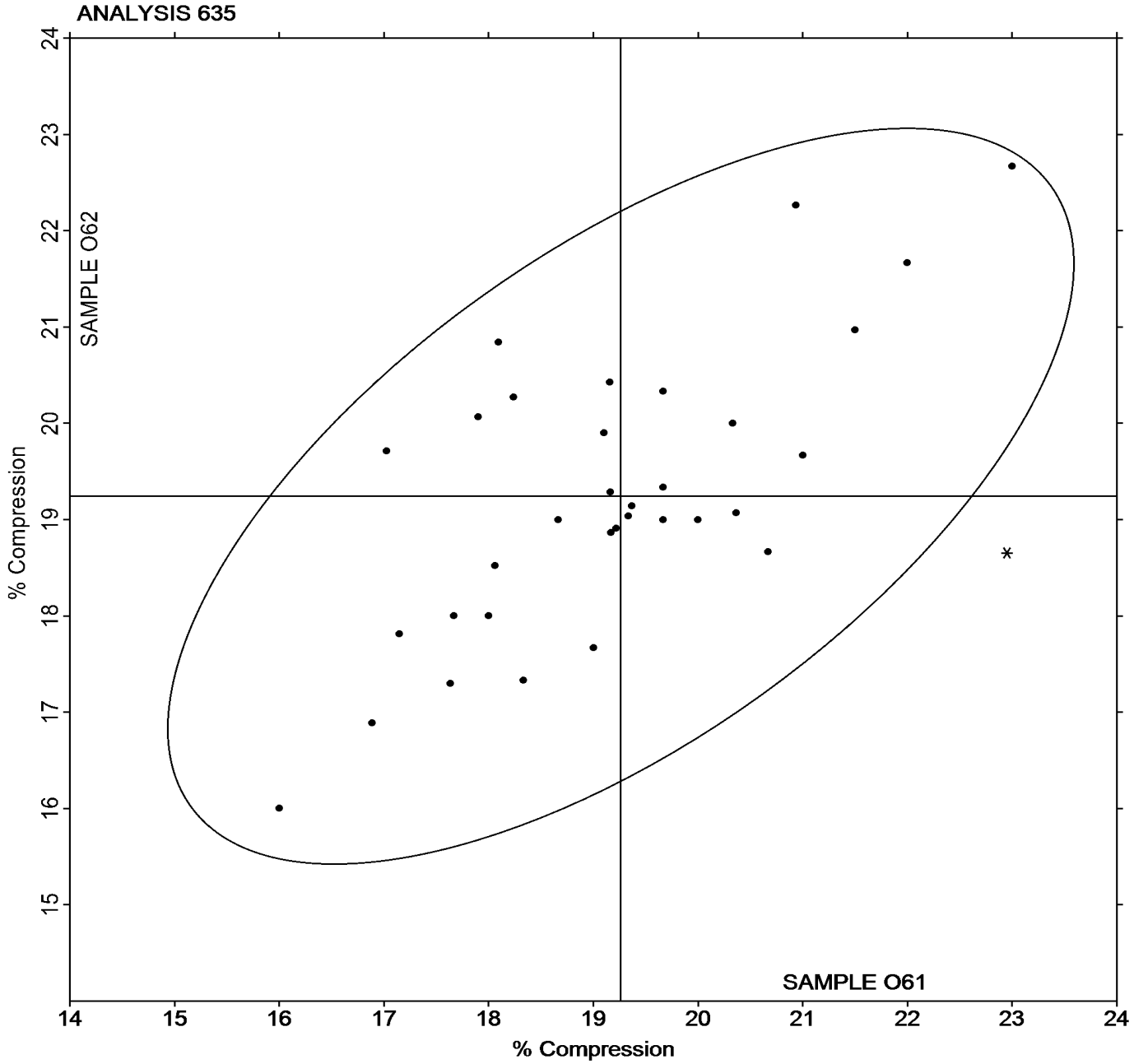
C3E6GW (X) - Data for sample group O61 are low.

DYBUZM (X) - Extreme Data.

JFG48G (X) - Data for all samples are high. Inconsistent within the determinations of sample group O61.

Grand Mean Sample **O61** = 19.262 % Compression

Grand Mean Sample **O62** = 19.243 % Compression



WebCode	Data Flag	Sample RB61 Lab Mean	Sample RB61 Diff from Grand Mean	Sample RB61 CPV	Sample RB62 Lab Mean	Sample RB62 Diff from Grand Mean	Sample RB62 CPV
3P6A94		2,407.2	-79.8	-0.94	2,376.8	-105.7	-1.16
46RAC9		2,471.8	-15.2	-0.18	2,494.4	11.9	0.13
7LP9FT		2,404.8	-82.2	-0.97	2,384.8	-97.7	-1.07
7R2Y49		2,519.9	32.9	0.39	2,467.0	-15.5	-0.17
7WWNLZ		2,457.0	-30.0	-0.35	2,430.6	-51.9	-0.57
83G7GM		2,552.4	65.4	0.77	2,581.6	99.1	1.08
ABLXXV		2,586.2	99.2	1.17	2,553.3	70.9	0.78
D3EPJQ		2,622.2	135.2	1.60	2,560.8	78.3	0.86
DJJWYT		2,444.4	-42.6	-0.50	2,377.0	-105.5	-1.16
DU6Z7R		2,560.5	73.5	0.87	2,514.5	32.0	0.35
EAQZCH		2,556.2	69.2	0.82	2,548.9	66.4	0.73
GA69DG		2,311.9	-175.0	-2.07	2,325.0	-157.5	-1.73
JQ48CV		2,575.9	88.9	1.05	2,651.3	168.8	1.85
UPDJKC		2,463.0	-24.0	-0.28	2,534.8	52.3	0.57
WHK2HK		2,458.2	-28.8	-0.34	2,517.0	34.5	0.38
ZJ4ECY		2,400.0	-87.0	-1.03	2,402.0	-80.5	-0.88

Summary Statistics

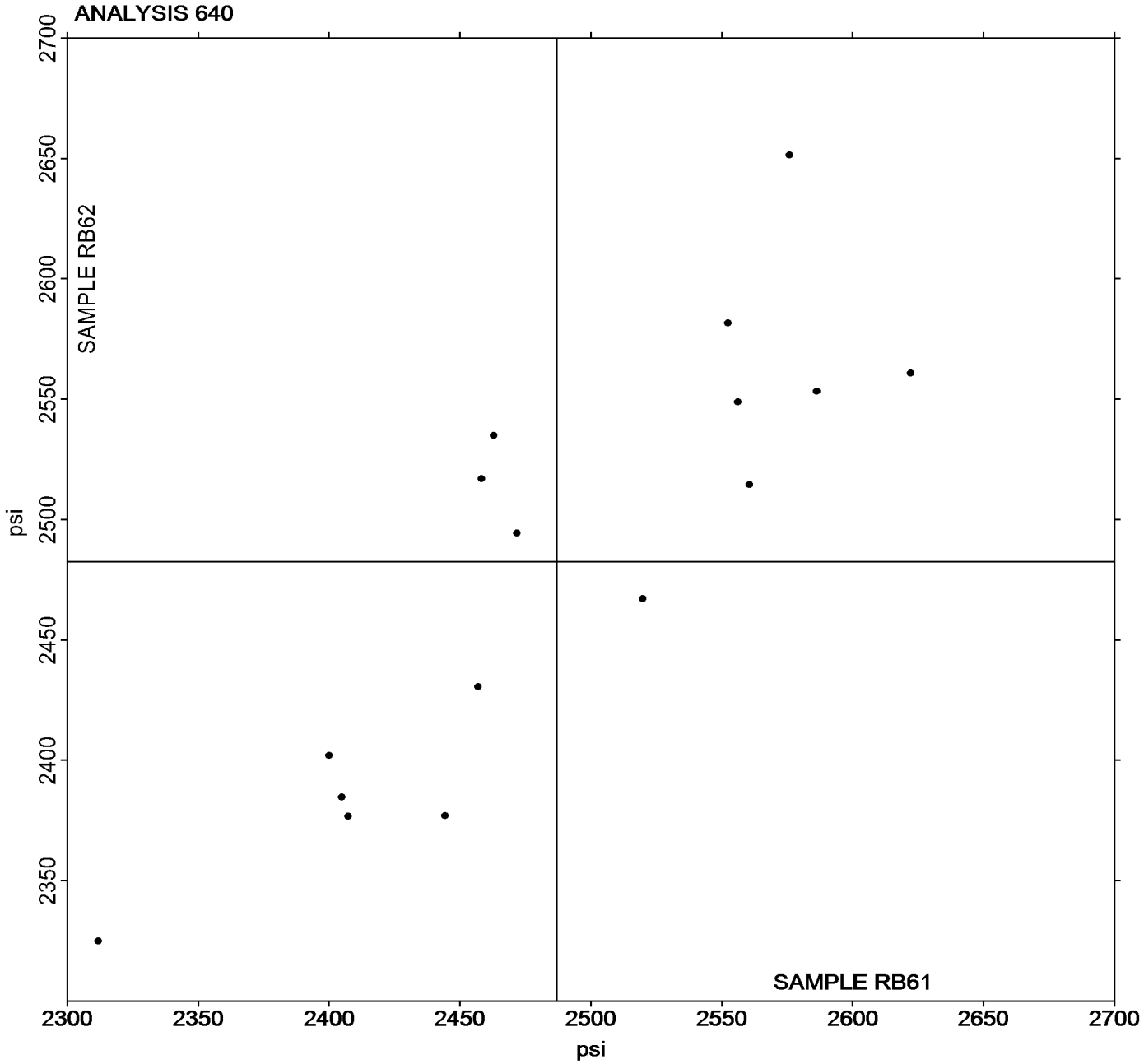
	Sample RB61	Sample RB62
Grand Means	2,486.97 psi	2,482.49 psi
Stnd Dev Btwn Labs	84.56 psi	91.30 psi

Statistics based on 16 of 16 reporting participants

Samples RB61: Nitrile O-Ring & RB62: Nitrile O-Ring

Grand Mean Sample **RB61** = 2,486.97 psi

Grand Mean Sample **RB62** = 2,482.49 psi



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

WebCode	Data Flag	Sample RB61 Lab Mean	Sample RB61 Diff from Grand Mean	Sample RB61 CPV	Sample RB62 Lab Mean	Sample RB62 Diff from Grand Mean	Sample RB62 CPV
3P6A94		461.8	13.2	0.36	458.6	12.0	0.35
46RAC9	*	336.8	-111.8	-3.05	354.2	-92.4	-2.67
7LP9FT		419.2	-29.4	-0.80	401.0	-45.6	-1.32
7R2Y49		427.9	-20.7	-0.56	433.5	-13.1	-0.38
7WWNLZ		453.8	5.2	0.14	444.4	-2.2	-0.06
83G7GM		477.2	28.6	0.78	473.4	26.8	0.77
ABLXXV		485.0	36.4	0.99	479.8	33.2	0.96
D3EPJQ		474.2	25.6	0.70	455.0	8.4	0.24
DJJWYT		462.6	14.0	0.38	458.4	11.8	0.34
DU6Z7R		478.5	29.9	0.82	460.9	14.3	0.41
EAQZCH		471.6	23.1	0.63	473.5	26.9	0.77
GA69DG		442.5	-6.1	-0.17	418.8	-27.8	-0.80
JQ48CV		463.0	14.4	0.39	477.2	30.6	0.88
UPDJKC		452.6	4.0	0.11	468.0	21.4	0.62
WHK2HK		458.5	10.0	0.27	475.9	29.3	0.84
ZJ4ECY		411.8	-36.8	-1.00	413.4	-33.2	-0.96

Summary Statistics

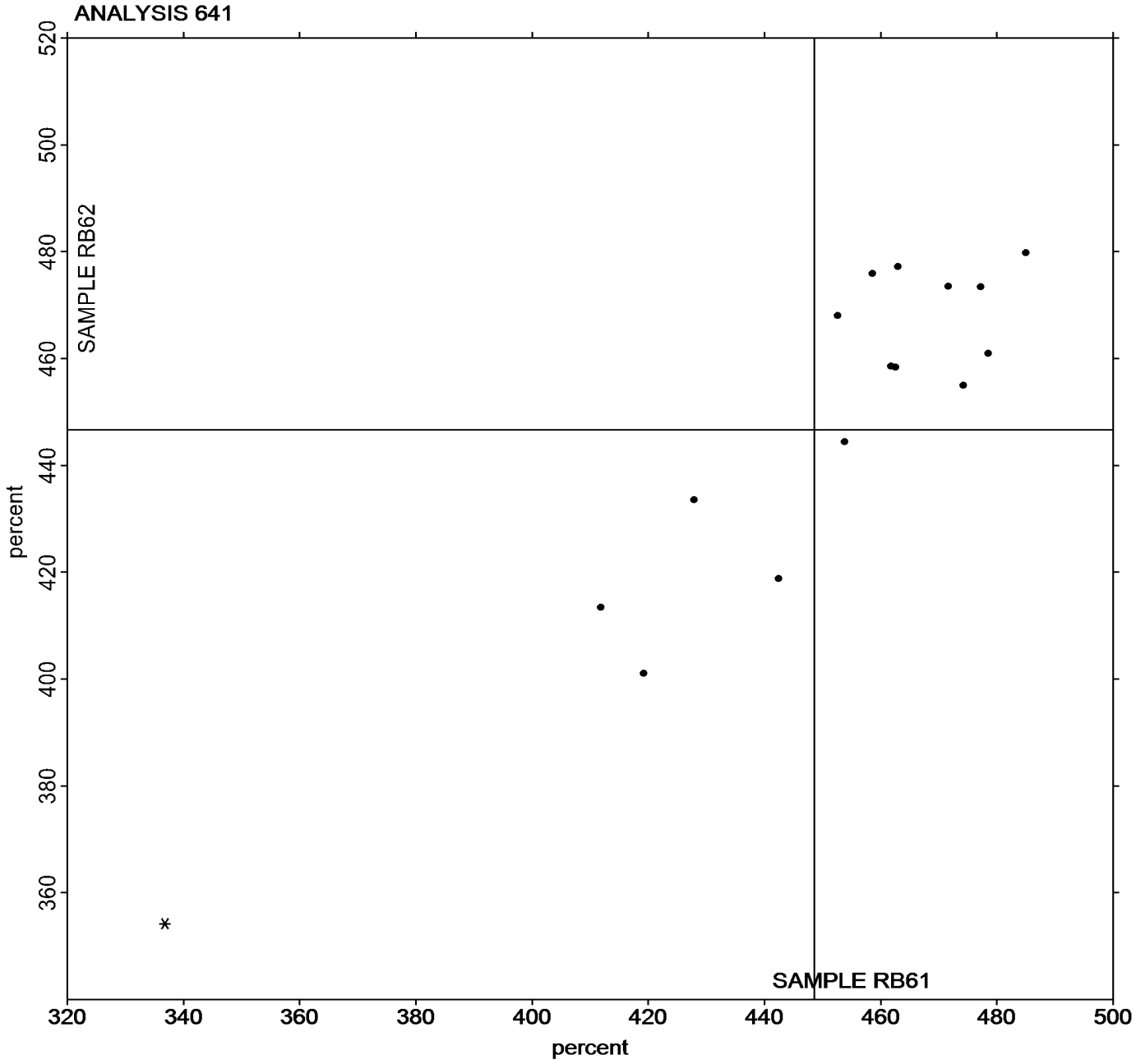
	Sample RB61	Sample RB62
Grand Means	448.56 percent	446.63 percent
Stnd Dev Btwn Labs	36.63 percent	34.67 percent

Statistics based on 16 of 16 reporting participants

Samples RB61: Nitrile O-Ring & RB62: Nitrile O-Ring

Grand Mean Sample **RB61** = 448.56 percent

Grand Mean Sample **RB62** = 446.63 percent



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

O-Ring Stress at 100% Elongation (psi)

WebCode	Data Flag	Sample RB61 Lab Mean	Sample RB61 Diff from Grand Mean	Sample RB61 CPV	Sample RB62 Lab Mean	Sample RB62 Diff from Grand Mean	Sample RB62 CPV
3P6A94		402.0	8.1	0.22	422.8	20.9	0.50
7LP9FT		417.2	23.3	0.62	459.2	57.3	1.37
7R2Y49		377.5	-16.4	-0.44	368.6	-33.3	-0.80
7WWNLZ		393.8	-0.1	0.00	405.2	3.3	0.08
83G7GM		410.4	16.5	0.44	421.3	19.3	0.46
ABLXXV		315.1	-78.8	-2.10	323.6	-78.3	-1.87
D3EPJQ		405.6	11.7	0.31	409.0	7.1	0.17
DJJWYT		422.6	28.7	0.77	426.4	24.5	0.59
DU6Z7R		328.9	-65.0	-1.73	348.1	-53.8	-1.29
EAQZCH		368.4	-25.5	-0.68	387.8	-14.1	-0.34
GA69DG		469.6	75.8	2.02	489.9	88.0	2.11
JQ48CV		404.1	10.2	0.27	403.5	1.6	0.04
UPDJKC		381.4	-12.5	-0.33	377.6	-24.3	-0.58
WHK2HK		395.0	1.2	0.03	372.0	-30.0	-0.72
ZJ4ECY		416.4	22.5	0.60	413.8	11.9	0.28

Summary Statistics

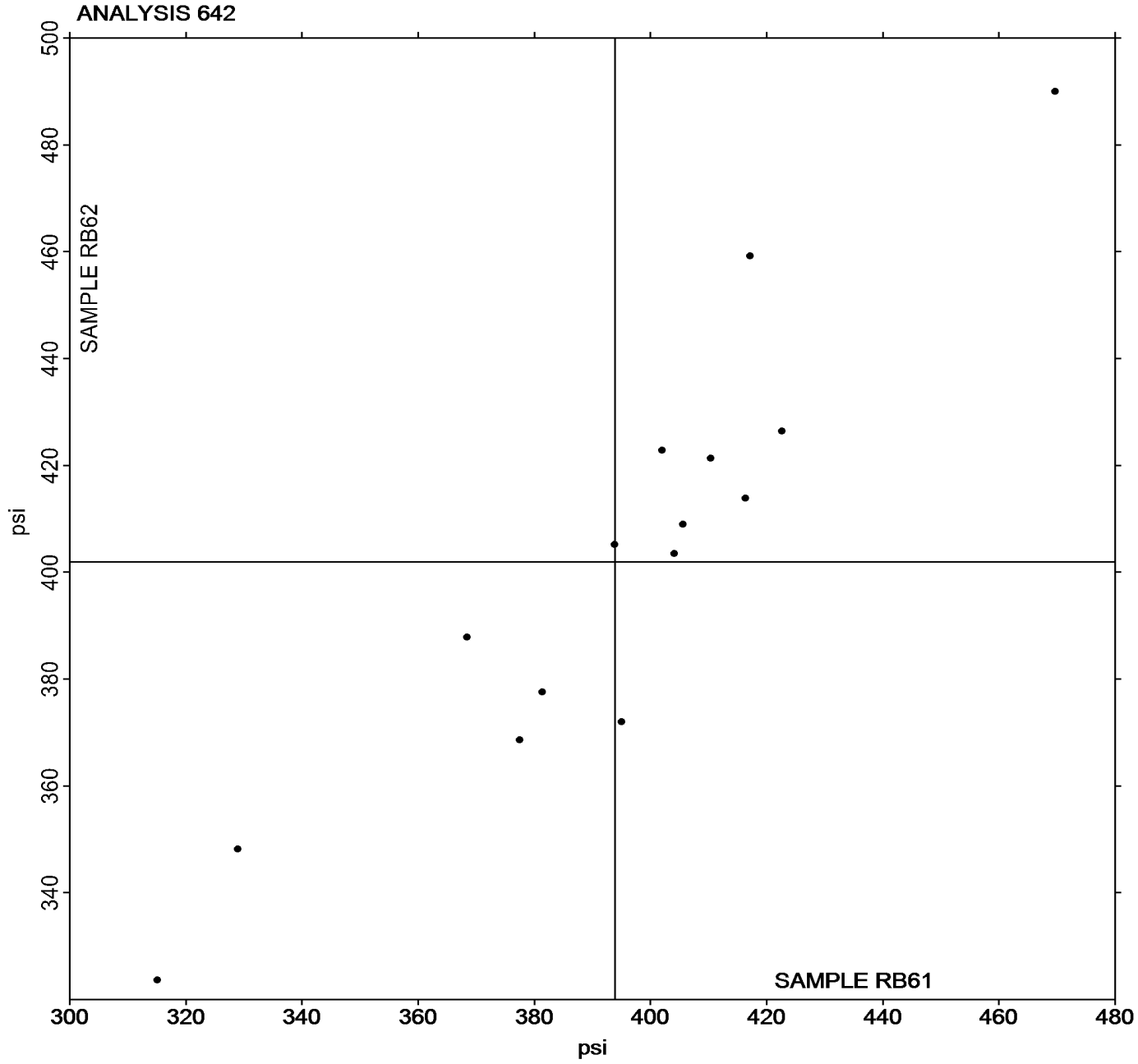
	Sample RB61	Sample RB62
Grand Means	393.87 psi	401.93 psi
Stnd Dev Btwn Labs	37.51 psi	41.80 psi

Statistics based on 15 of 15 reporting participants

Samples RB61: Nitrile O-Ring & RB62: Nitrile O-Ring

Grand Mean Sample **RB61** = 393.87 psi

Grand Mean Sample **RB62** = 401.93 psi



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

WebCode	Data Flag	Sample RB61 Lab Mean	Sample RB61 Diff from Grand Mean	Sample RB61 CPV	Sample RB62 Lab Mean	Sample RB62 Diff from Grand Mean	Sample RB62 CPV
3P6A94		68.00	0.79	0.46	68.20	0.87	0.54
46RAC9		63.80	-3.41	-2.00	65.80	-1.53	-0.95
7LP9FT		66.78	-0.43	-0.25	66.40	-0.93	-0.58
7R2Y49		66.72	-0.49	-0.29	67.12	-0.21	-0.13
7WWNLZ		69.40	2.19	1.29	70.00	2.67	1.67
83G7GM		68.00	0.79	0.46	68.00	0.67	0.42
8KCWBV		66.10	-1.11	-0.65	66.20	-1.13	-0.70
ABLXXV		67.46	0.25	0.15	67.46	0.13	0.08
DJJWYT		67.78	0.57	0.34	67.62	0.29	0.18
DU6Z7R		68.60	1.39	0.82	68.98	1.65	1.03
EAQZCH		65.36	-1.85	-1.09	65.90	-1.43	-0.89
JQ48CV		64.80	-2.41	-1.41	63.80	-3.53	-2.20
WHK2HK		69.12	1.91	1.12	68.90	1.57	0.98
ZJ4ECY		69.00	1.79	1.05	68.20	0.87	0.54

Summary Statistics

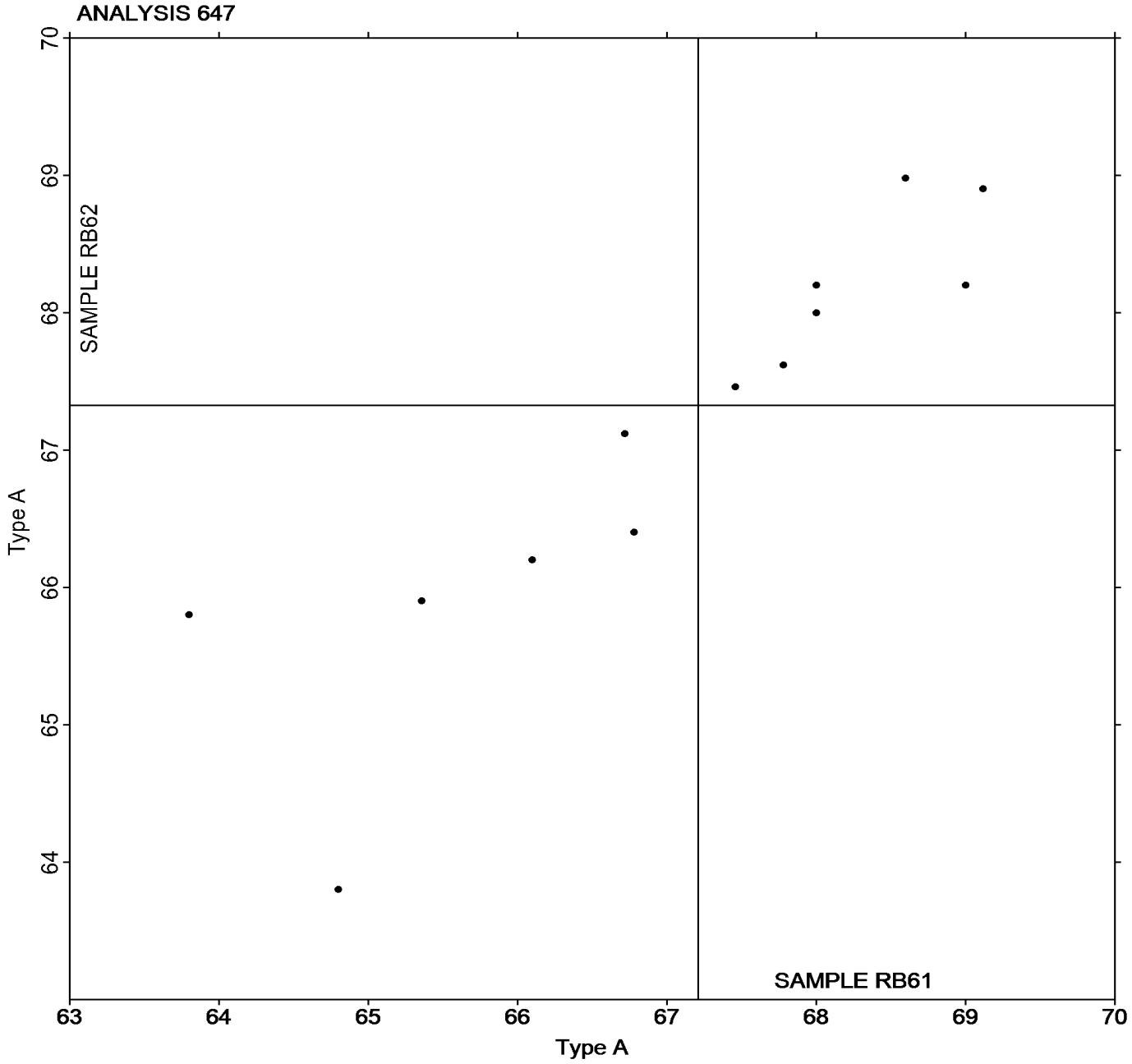
	Sample RB61	Sample RB62
Grand Means	67.209 Type A	67.327 Type A
Stnd Dev Btwn Labs	1.704 Type A	1.603 Type A

Statistics based on 14 of 14 reporting participants

Samples RB61: Nitrile O-Ring & RB62: Nitrile O-Ring

Grand Mean Sample **RB61** = 67.209 Type A

Grand Mean Sample **RB62** = 67.327 Type A



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 RB61 Lab Mean	Sample RB61 Diff from Grand Mean	Sample RB61 CPV	Sample RB62 Lab Mean	Sample RB62 Diff from Grand Mean	Sample RB62 CPV
3P6A94		71.20	-3.35	-1.69	72.20	-2.21	-1.29
7LP9FT		74.12	-0.43	-0.21	74.56	0.15	0.08
7R2Y49		71.88	-2.67	-1.34	71.32	-3.09	-1.81
7WWNLZ		76.12	1.57	0.79	76.86	2.45	1.43
83G7GM		74.60	0.05	0.03	74.20	-0.21	-0.13
D3EPJQ		75.08	0.53	0.27	74.84	0.43	0.25
DJJWYT		74.72	0.17	0.09	74.56	0.15	0.08
DU6Z7R		78.52	3.97	2.00	77.12	2.71	1.58
JQ48CV		73.60	-0.95	-0.48	73.60	-0.81	-0.48
WHK2HK		75.72	1.17	0.59	75.18	0.77	0.45
ZJ4ECY		74.44	-0.11	-0.05	74.12	-0.29	-0.17

Summary Statistics

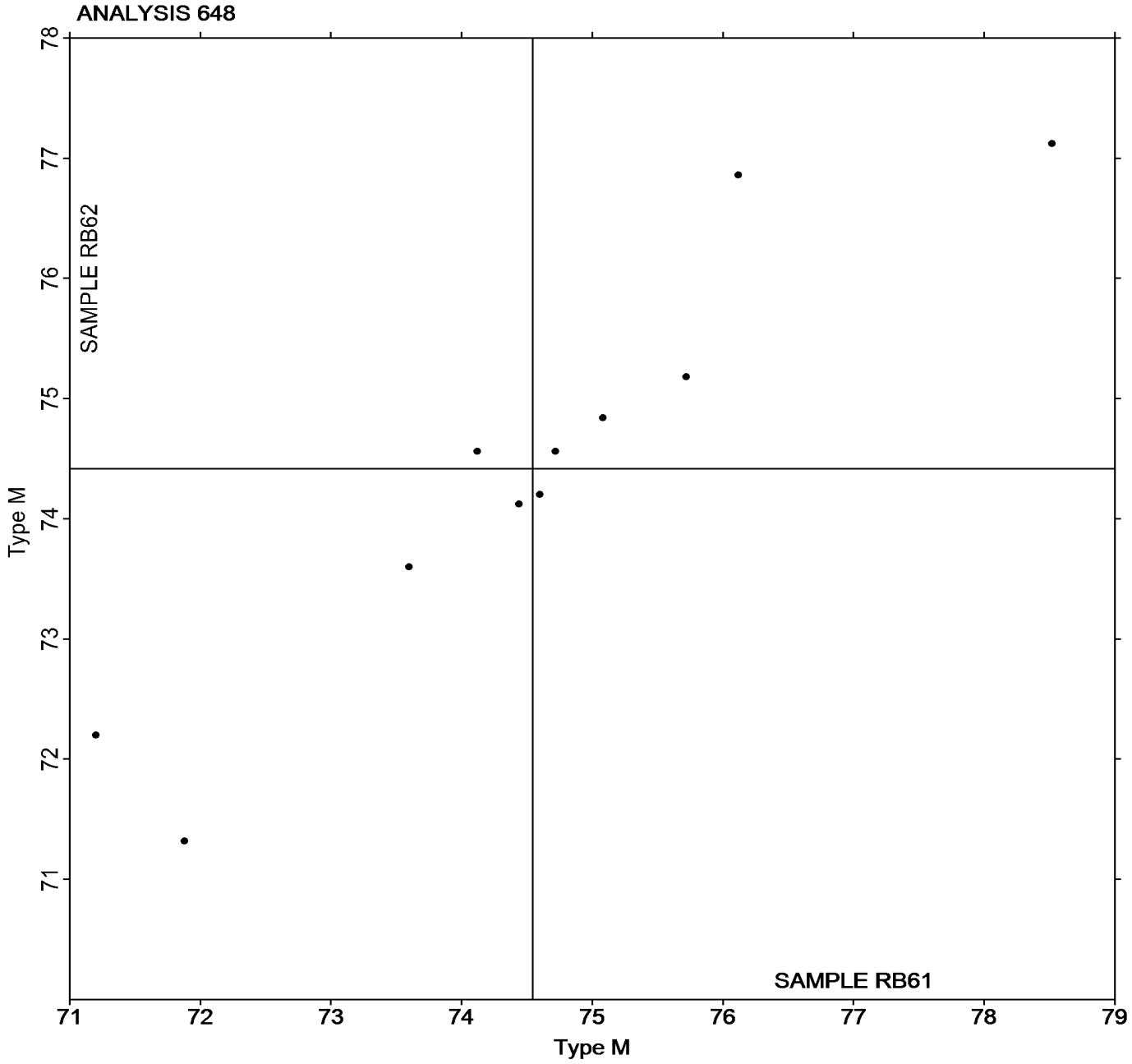
	Sample RB61	Sample RB62
Grand Means	74.545 Type M	74.415 Type M
Stnd Dev Btwn Labs	1.984 Type M	1.714 Type M

Statistics based on 11 of 11 reporting participants

Samples RB61: Nitrile O-Ring & RB62: Nitrile O-Ring

Grand Mean Sample **RB61** = 74.545 Type M

Grand Mean Sample **RB62** = 74.415 Type M



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 RB61 Lab Mean	Sample RB61 Diff from Grand Mean	Sample RB61 CPV	Sample RB62 Lab Mean	Sample RB62 Diff from Grand Mean	Sample RB62 CPV
3P6A94		1.206	0.000	-0.13	1.207	0.000	0.21
46RAC9		1.205	-0.002	-0.59	1.209	0.002	1.08
7LP9FT		1.206	-0.001	-0.32	1.207	0.000	0.16
7R2Y49		1.210	0.003	1.34	1.210	0.003	1.74
7WWNLZ		1.203	-0.004	-1.36	1.206	0.000	-0.23
83G7GM		1.202	-0.005	-1.75	1.205	-0.002	-0.89
ABLXXV		1.207	0.000	0.16	1.204	-0.003	-1.64
D3EPJQ		1.205	-0.001	-0.54	1.206	-0.001	-0.28
DJJWYT		1.208	0.002	0.64	1.207	0.000	-0.16
DU6Z7R		1.204	-0.002	-0.93	1.204	-0.002	-1.31
EAQZCH		1.208	0.001	0.47	1.207	0.000	0.16
GA69DG	X	0.869	-0.338	-130.34	0.862	-0.344	-188.83
JQ48CV		1.212	0.005	2.00	1.210	0.004	1.97
UPDJKC		1.209	0.002	0.88	1.207	0.000	-0.12
WHK2HK		1.208	0.001	0.41	1.207	0.000	-0.01
ZJ4ECY		1.206	-0.001	-0.27	1.206	-0.001	-0.68

Summary Statistics

	Sample RB61	Sample RB62
Grand Means	1.2065 g/cm^3 (Mg/m^3)	1.2068 g/cm^3 (Mg/m^3)
Stnd Dev Btwn Labs	0.0026 g/cm^3 (Mg/m^3)	0.0018 g/cm^3 (Mg/m^3)

Statistics based on 15 of 16 reporting participants

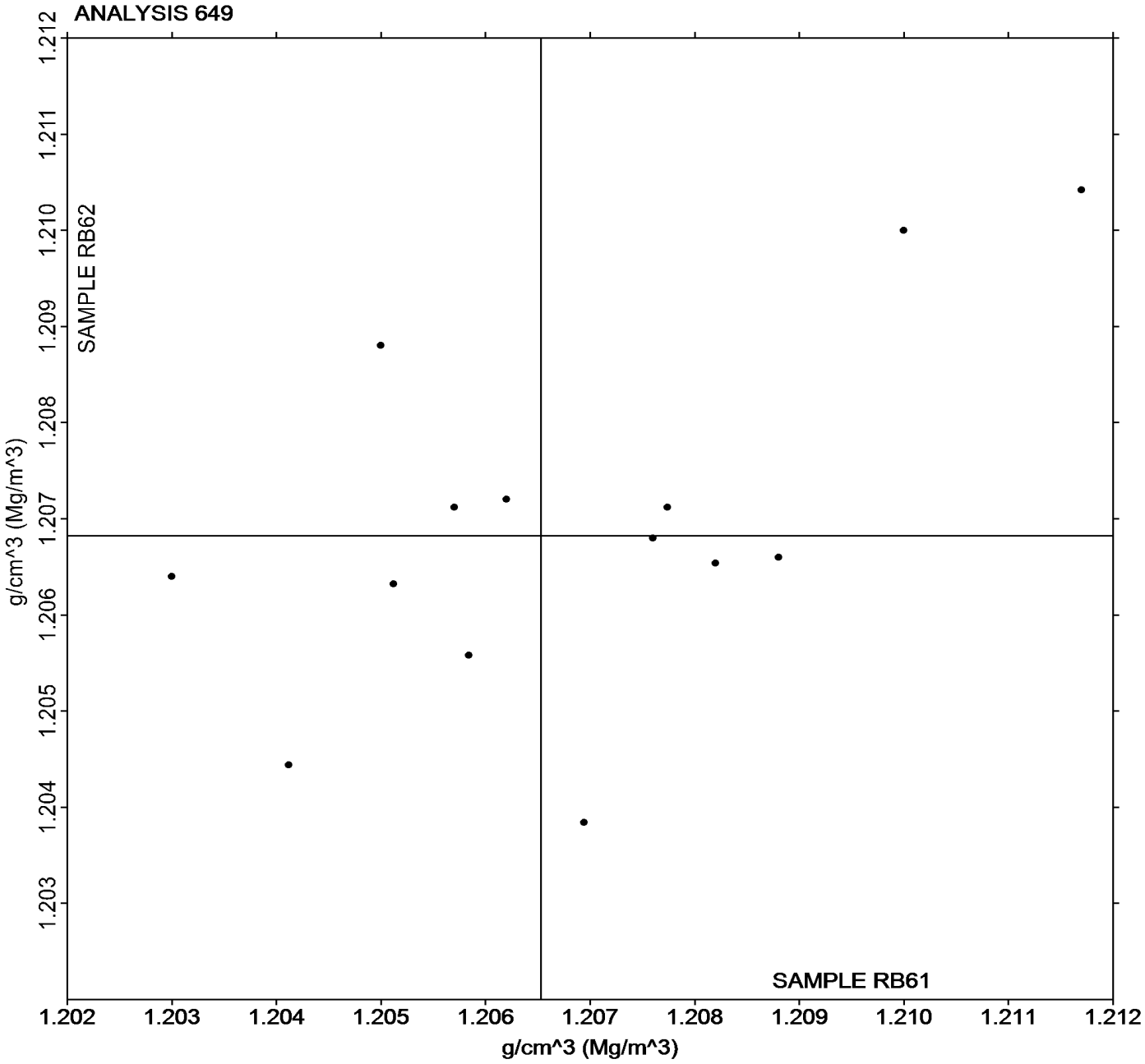
Samples RB61: Nitrile O-Ring & RB62: Nitrile O-Ring

Comments on Assigned Data Flags for Test #649

GA69DG (X) - Extreme Data.

Grand Mean Sample **RB61** = 1.2065 g/cm^3 (Mg/m^3)

Grand Mean Sample **RB62** = 1.2068 g/cm^3 (Mg/m^3)



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 RB63 Lab Mean	Sample RB63 Diff from Grand Mean	Sample RB63 CPV	Sample RB64 Lab Mean	Sample RB64 Diff from Grand Mean	Sample RB64 CPV
3P6A94		11.00	-0.04	-0.03	10.33	-0.42	-0.55
7LP9FT		10.00	-1.04	-0.77	10.33	-0.42	-0.55
7R2Y49		10.73	-0.31	-0.23	10.43	-0.32	-0.42
7WWNLZ		10.33	-0.71	-0.52	10.53	-0.22	-0.28
ABLXXV		11.90	0.86	0.64	12.43	1.68	2.22
D3EPJQ		9.33	-1.71	-1.26	9.83	-0.92	-1.21
DJJWYT		9.80	-1.23	-0.91	9.80	-0.94	-1.25
DU6Z7R		11.00	-0.04	-0.03	11.00	0.25	0.33
EAQZCH	*	14.62	3.58	2.64	11.06	0.31	0.41
GA69DG		11.76	0.72	0.53	11.73	0.98	1.30
WHK2HK		10.98	-0.06	-0.04	10.49	-0.26	-0.34
ZJ4ECY		11.00	-0.04	-0.03	11.00	0.25	0.33

Summary Statistics

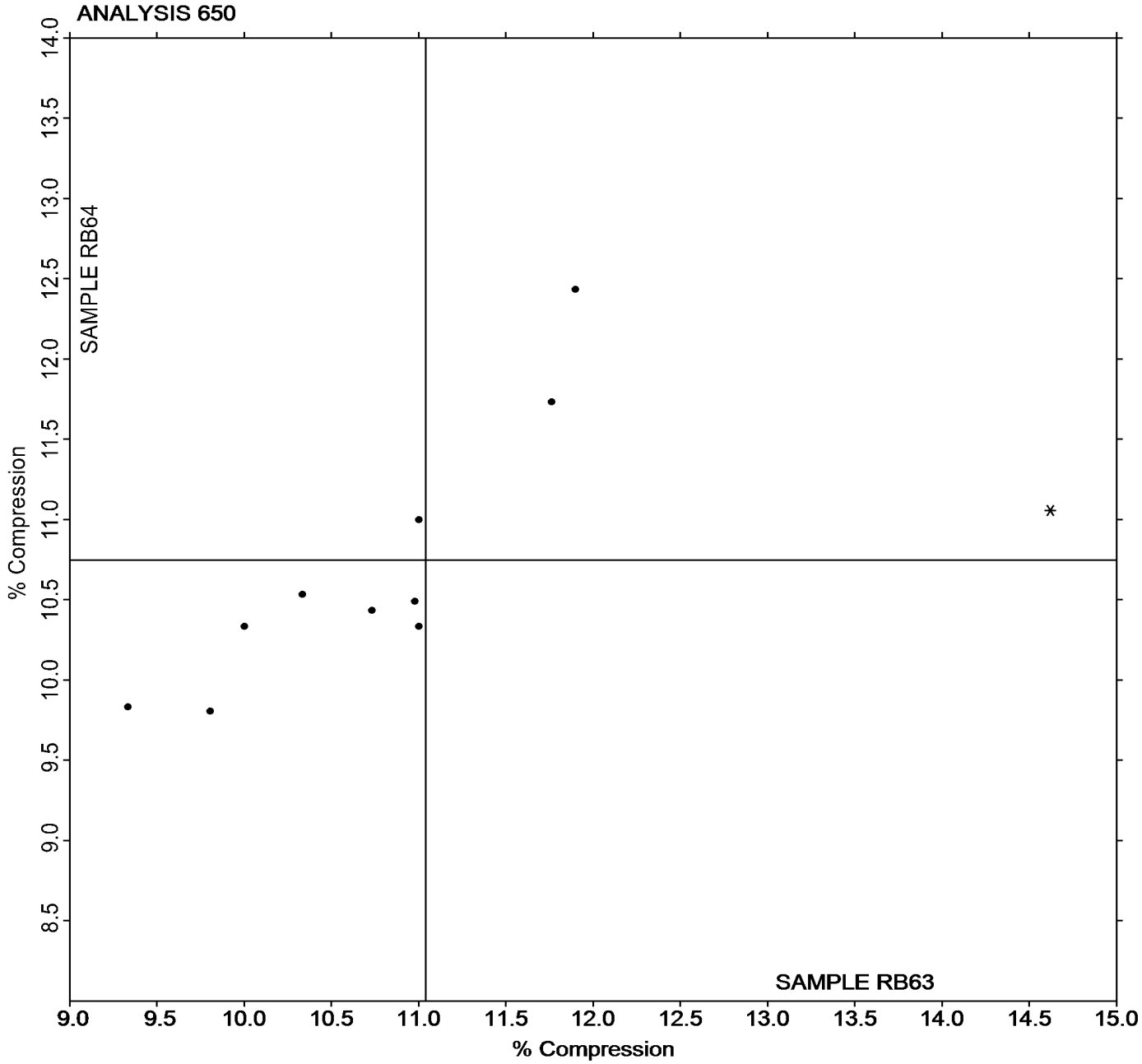
	Sample RB63	Sample RB64
Grand Means	11.039 % Compression	10.749 % Compression
Stnd Dev Btwn Labs	1.355 % Compression	0.758 % Compression

Statistics based on 12 of 12 reporting participants

Samples RB63: Nitrile O-Ring & RB64: Nitrile O-Ring

Grand Mean Sample **RB63** = 11.039 % Compression

Grand Mean Sample **RB64** = 10.749 % Compression



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 T61-T62 Lab Mean	Diff from Grand Mean	CPV	Sample T63-T64 Lab Mean	Diff from Grand Mean	CPV	Instr Code
2NEN38		45.15	-1.19	-0.96	53.82	-1.44	-0.71	MR
47MREA		48.13	1.79	1.46	58.20	2.93	1.45	MV
7HEXMX		46.87	0.53	0.43	55.11	-0.16	-0.08	MV
9WK2Y4		45.70	-0.64	-0.52	53.25	-2.01	-1.00	MR
CEC7VM		46.67	0.33	0.27	55.34	0.08	0.04	MR
HU4WHH		47.45	1.11	0.90	57.72	2.45	1.22	TA
KAUDKL		44.87	-1.47	-1.19	53.58	-1.68	-0.83	MR
L8LNVH		46.12	-0.22	-0.18	54.68	-0.58	-0.29	ML
Q3UAVN		45.53	-0.80	-0.65	53.93	-1.33	-0.66	MR
QH6NE8		48.25	1.91	1.56	56.53	1.27	0.63	MR
RD6Y9K		45.43	-0.90	-0.73	53.77	-1.49	-0.74	ML
UM674B		46.17	-0.17	-0.14	55.35	0.09	0.04	MR
UU97MD		45.25	-1.08	-0.88	54.55	-0.71	-0.35	MR
WKV376		46.98	0.65	0.53	55.60	0.34	0.17	MR
YPV2RD		44.52	-1.82	-1.48	52.60	-2.66	-1.32	MR
YUVDPY		48.28	1.95	1.58	60.15	4.89	2.42	MR

Summary Statistics

	Sample T61-T62	Sample T63-T64
Grand Means	46.336 ML 1 + 4	55.260 ML 1 + 4
Stnd Dev Btwn Labs	1.230 ML 1 + 4	2.020 ML 1 + 4

Statistics based on 16 of 16 reporting participants

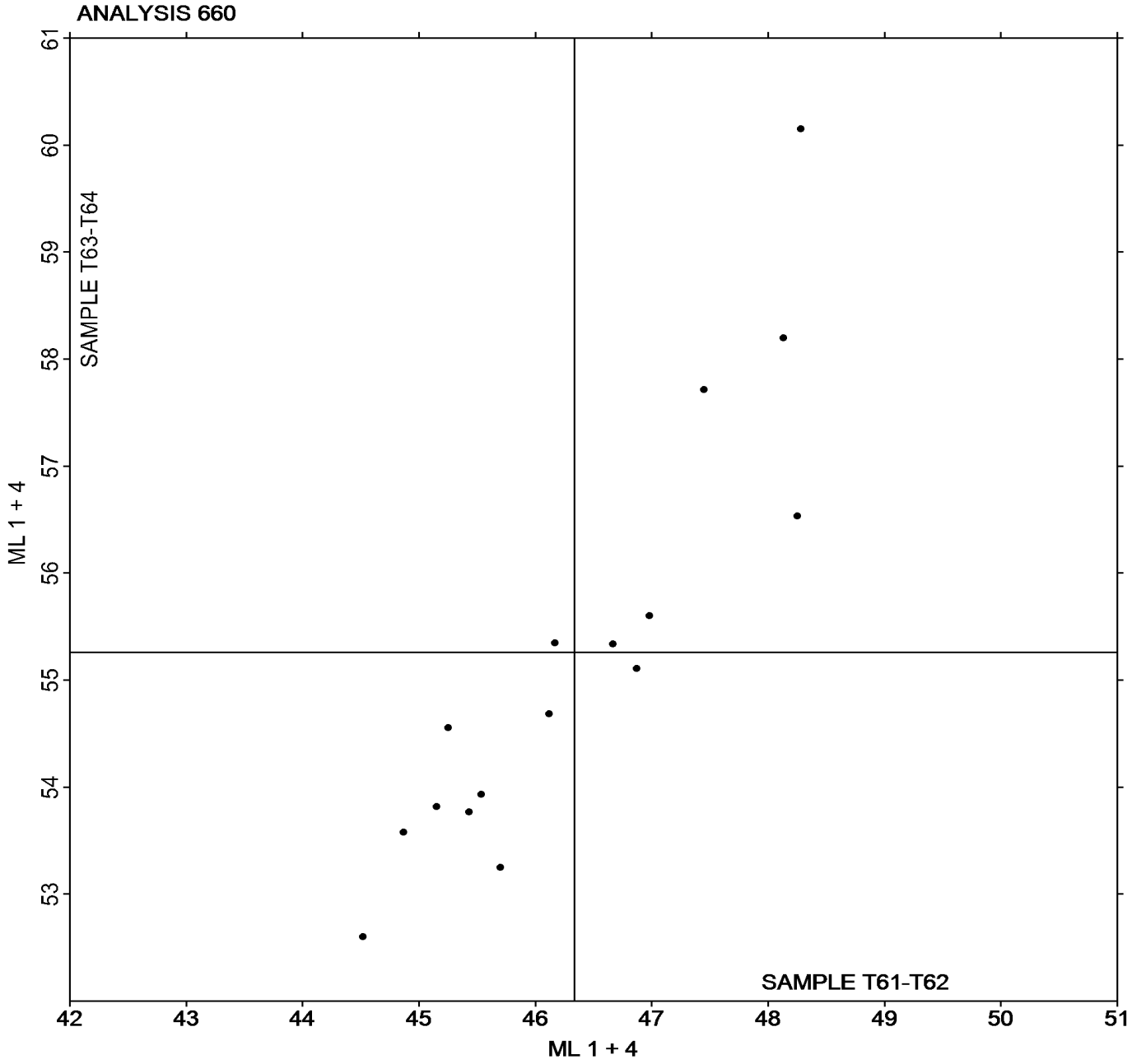
Samples T61-T62: SBR & T63-T64: Butyl

Key to Instrument Codes Reported by Participants

ML	Alpha Technologies/Monsanto model not specified	MR	Alpha Technologies Model MV2000/MV2000E
MV	MonTech	TA	TA Instruments (any model)

Grand Mean Sample **T61-T62** = 46.336 ML 1 + 4

Grand Mean Sample **T63-T64** = 55.260 ML 1 + 4



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

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

WebCode	Data Flag	Sample T61-T62 Lab Mean	Diff from Grand Mean	CPV	Sample T63-T64 Lab Mean	Diff from Grand Mean	CPV	Instr Code
2NEN38		45.15	-1.19	-0.96	51.37	-1.42	-0.72	MR
47MREA		48.13	1.79	1.46	55.41	2.63	1.34	MV
7HEXMX		46.87	0.53	0.43	52.33	-0.46	-0.23	MV
9WK2Y4		45.70	-0.64	-0.52	51.00	-1.79	-0.91	MR
CEC7VM		46.67	0.33	0.27	52.55	-0.23	-0.12	MR
HU4WHH		47.45	1.11	0.90	54.79	2.01	1.03	TA
KAUDKL		44.87	-1.47	-1.19	51.08	-1.71	-0.87	MR
L8LNVH		46.12	-0.22	-0.18	52.38	-0.40	-0.21	ML
Q3UAVN		45.53	-0.80	-0.65	51.33	-1.45	-0.74	MR
QH6NE8		48.25	1.91	1.56	51.70	-1.09	-0.55	MR
RD6Y9K		45.43	-0.90	-0.73	54.35	1.56	0.80	MR
UM674B		46.17	-0.17	-0.14	53.66	0.87	0.44	MR
UU97MD		45.25	-1.08	-0.88	52.05	-0.73	-0.37	MR
WKV376		46.98	0.65	0.53	53.05	0.26	0.13	MR
YPV2RD		44.52	-1.82	-1.48	49.95	-2.84	-1.45	MR
YUVDPY		48.28	1.95	1.58	57.57	4.78	2.44	XX

Summary Statistics

	Sample T61-T62	Sample T63-T64
Grand Means	46.336 ML 1 + 8	52.786 ML 1 + 8
Stnd Dev Btwn Labs	1.230 ML 1 + 8	1.958 ML 1 + 8

Statistics based on 16 of 16 reporting participants

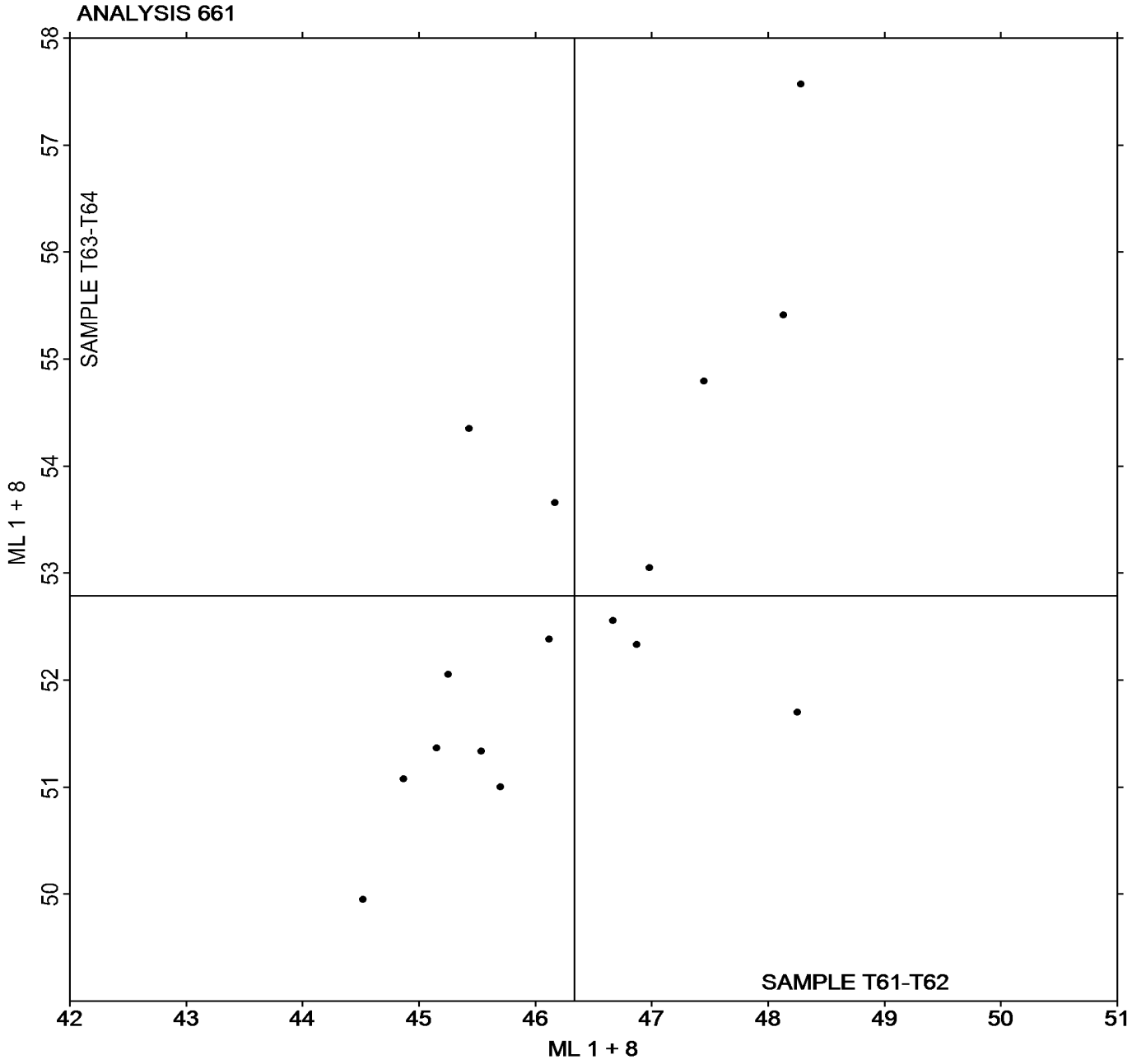
Samples T61-T62: SBR & T63-T64: Butyl

Key to Instrument Codes Reported by Participants

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

Grand Mean Sample **T61-T62** = 46.336 ML 1 + 8

Grand Mean Sample **T63-T64** = 52.786 ML 1 + 8



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

Mooney Stress Relaxation: t80 (seconds)

WebCode	Data Flag	Sample T61-T62 Lab Mean	Sample T61-T62 Diff from Grand Mean	Sample T61-T62 CPV	Sample T63-T64 Lab Mean	Sample T63-T64 Diff from Grand Mean	Sample T63-T64 CPV	Instr Code
2NEN38		10.80	0.13	0.07	6.960	0.098	0.21	MR
47MREA		7.93	-2.73	-1.43	6.240	-0.622	-1.36	MV
L8LNVH		11.72	1.05	0.55	6.903	0.042	0.09	ML
QH6NE8		12.21	1.55	0.81	7.343	0.482	1.05	XX

Summary Statistics

	Sample T61-T62	Sample T63-T64
Grand Means	10.666 seconds	6.8617 seconds
Stnd Dev Btwn Labs	1.914 seconds	0.4582 seconds

Statistics based on 4 of 4 reporting participants

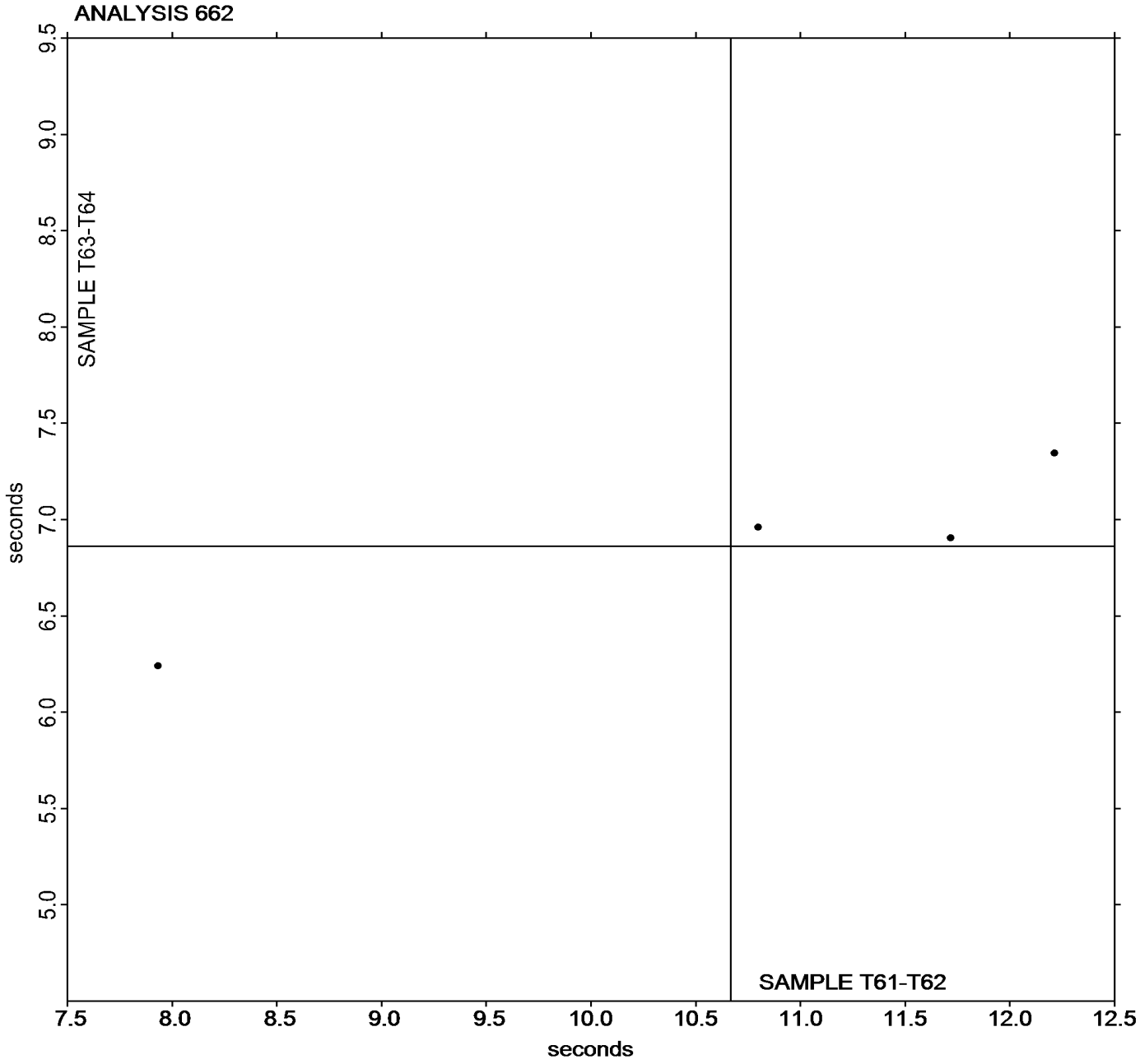
Samples T61-T62: SBR & T63-T64: Butyl

Key to Instrument Codes Reported by Participants

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

Grand Mean Sample **T61-T62** = 10.666 seconds

Grand Mean Sample **T63-T64** = 6.8617 seconds



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

WebCode	Data Flag	Sample T61-T62 Lab Mean	Sample T61-T62 Diff from Grand Mean	Sample T61-T62 CPV	Sample T63-T64 Lab Mean	Sample T63-T64 Diff from Grand Mean	Sample T63-T64 CPV	Instr Code
2NEN38		86.86	-1.39	-0.56	93.52	-0.73	-0.38	MR
47MREA		88.28	0.04	0.02	93.39	-0.86	-0.45	MV
L8LNVH		86.13	-2.11	-0.85	92.99	-1.25	-0.66	ML
QH6NE8		91.70	3.46	1.40	97.09	2.84	1.49	XX

Summary Statistics

	Sample T61-T62	Sample T63-T64
Grand Means	88.243 percent	94.246 percent
Stnd Dev Btwn Labs	2.473 percent	1.907 percent

Statistics based on 4 of 4 reporting participants

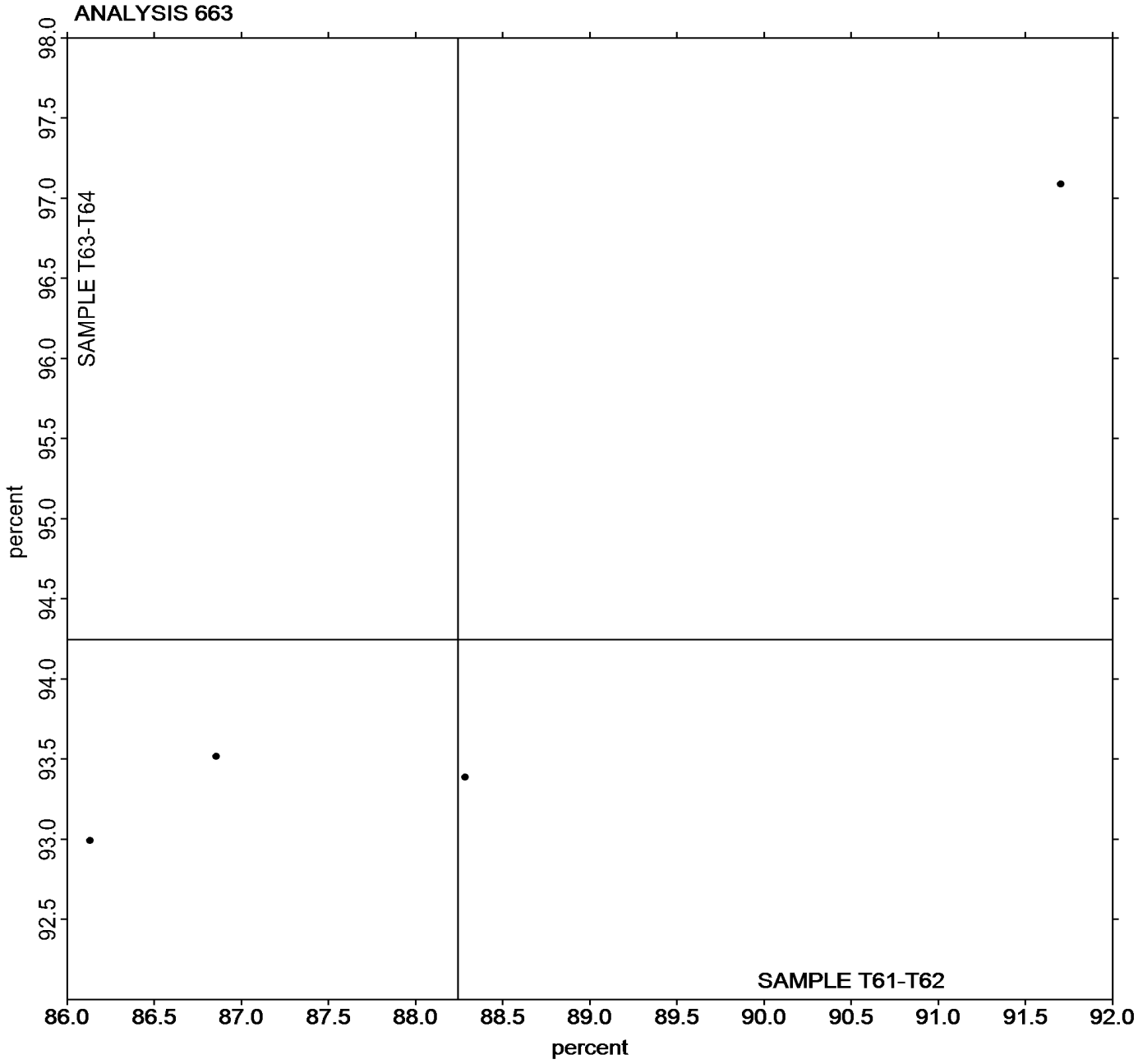
Samples T61-T62: SBR & T63-T64: Butyl

Key to Instrument Codes Reported by Participants

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

Grand Mean Sample **T61-T62** = 88.243 percent

Grand Mean Sample **T63-T64** = 94.246 percent



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

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

WebCode	Data Flag	Sample T61-T62 Lab Mean	Sample T61-T62 Diff from Grand Mean	Sample T61-T62 CPV	Sample T63-T64 Lab Mean	Sample T63-T64 Diff from Grand Mean	Sample T63-T64 CPV	Instr Code
2NEN38		640.5	-3.2	-0.07	390.5	-15.4	-0.91	MR
47MREA		600.2	-43.5	-0.96	403.3	-2.6	-0.16	MV
L8LNVH		690.5	46.8	1.03	424.0	18.1	1.07	ML
QH6NE8	X	1,294.2	650.4	14.38	831.5	425.5	25.17	XX

Summary Statistics

	Sample T61-T62	Sample T63-T64
Grand Means	643.73 M-s	405.93 M-s
Stnd Dev Btwn Labs	45.24 M-s	16.90 M-s

Statistics based on 3 of 4 reporting participants

Samples T61-T62: SBR & T63-T64: Butyl

Comments on Assigned Data Flags for Test #664

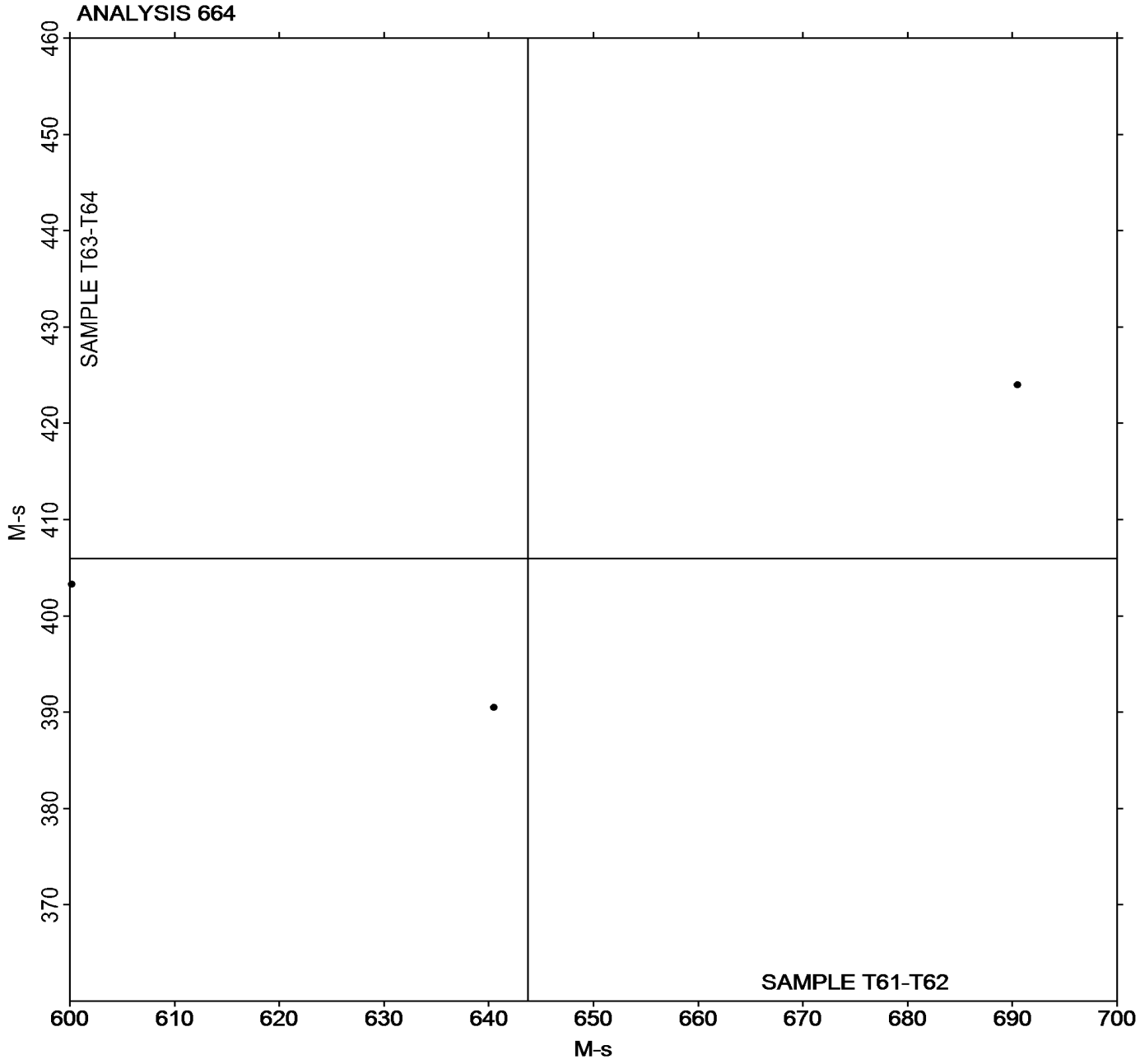
QH6NE8 (X) - Extreme Data.

Key to Instrument Codes Reported by Participants

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

Grand Mean Sample **T61-T62** = 643.73 M-s

Grand Mean Sample **T63-T64** = 405.93 M-s



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

WebCode	Data Flag	Sample X65-X66 Lab Mean	Diff from Grand Mean	CPV	Sample X67-X68 Lab Mean	Diff from Grand Mean	CPV	Instr Code
3P6A94		2.872	-0.181	-1.00	3.272	-0.002	-0.01	MC
47MREA		3.255	0.202	1.12	3.500	0.226	1.10	XX
4VL6MD		2.940	-0.113	-0.63	2.940	-0.334	-1.63	XX
7HEXMX		2.608	-0.444	-2.47	2.890	-0.384	-1.87	MC
7WWNLZ		3.142	0.089	0.49	3.392	0.117	0.57	MC
9TKQ44		2.953	-0.099	-0.55	3.287	0.012	0.06	ME
9WK2Y4		2.965	-0.088	-0.49	3.260	-0.014	-0.07	MC
ABLXXV		3.128	0.076	0.42	3.347	0.072	0.35	ME
CEC7VM		3.095	0.042	0.23	3.243	-0.031	-0.15	ME
DU6Z7R		2.850	-0.203	-1.13	3.033	-0.241	-1.17	ME
DYBUZM		3.203	0.151	0.84	3.505	0.231	1.12	XX
G9QKCP		3.103	0.051	0.28	3.423	0.149	0.73	ME
KAUDKL		2.993	-0.059	-0.33	2.933	-0.341	-1.66	MC
L8LNVH		2.872	-0.181	-1.01	3.067	-0.208	-1.01	ME
LPGGFF		3.003	-0.049	-0.28	3.085	-0.189	-0.92	MC
MVMA9Q		3.018	-0.034	-0.19	3.158	-0.116	-0.57	MM
P862MB		3.215	0.162	0.90	3.472	0.197	0.96	MC
RD6Y9K		3.468	0.416	2.31	3.490	0.216	1.05	XX
UM674B		3.148	0.096	0.53	3.412	0.137	0.67	ME
UU97MD		3.260	0.207	1.15	3.565	0.291	1.42	MC
YUVDPY		3.085	0.032	0.18	3.382	0.107	0.52	ME
Z7HY9Y		2.983	-0.069	-0.39	3.382	0.107	0.52	MC

Summary Statistics

	Sample X65-X66	Sample X67-X68
Grand Means	3.0528 minutes	3.2744 minutes
Stnd Dev Btwn Labs	0.1799 minutes	0.2053 minutes

Statistics based on 22 of 22 reporting participants

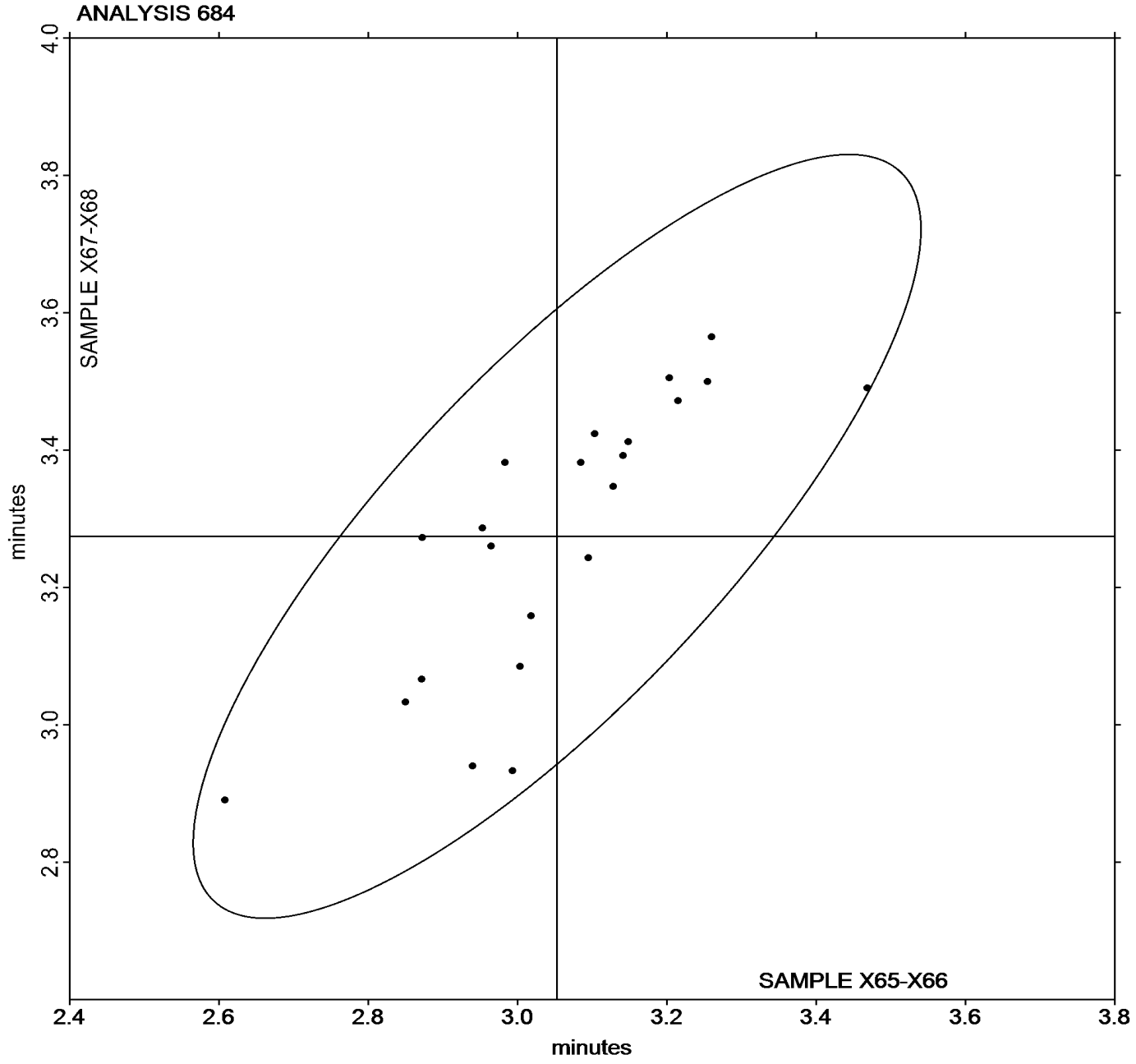
Samples X65-X66: EPDM Compound & X67-X68: EPDM Compound

Key to Instrument Codes Reported by Participants

MC	Alpha Technologies [Monsanto] MDR 2000 or 2000E	ME	Alpha Tech. MDR Premiere
MM	MonTech MDR 3000	XX	Instrument model not specified by lab

Grand Mean Sample **X65-X66** = 3.0528 minutes

Grand Mean Sample **X67-X68** = 3.2744 minutes



MDR Vulcanization-Scorch Time, Ts1 (minutes)

WebCode	Data Flag	Sample X65-X66 Lab Mean	Sample X65-X66 Diff from Grand Mean	Sample X65-X66 CPV	Sample X67-X68 Lab Mean	Sample X67-X68 Diff from Grand Mean	Sample X67-X68 CPV	Instr Code
2NEN38		2.681	-0.383	-1.43	2.910	-0.297	-1.13	MC
3P6A94		2.939	-0.125	-0.47	3.245	0.038	0.14	MC
47MREA		3.607	0.542	2.03	3.798	0.592	2.25	XX
4VL6MD		2.762	-0.303	-1.13	2.703	-0.503	-1.92	XX
7HEXMX		2.758	-0.306	-1.14	3.038	-0.168	-0.64	MC
7LP9FT		2.895	-0.169	-0.63	2.968	-0.238	-0.91	MC
7WWNLZ		3.273	0.209	0.78	3.360	0.153	0.58	MC
9TKQ44		3.148	0.084	0.31	3.315	0.108	0.41	ME
9WK2Y4		3.128	0.064	0.24	3.247	0.040	0.15	MC
ABLXXV		3.070	0.006	0.02	3.210	0.003	0.01	ME
CEC7VM		2.923	-0.141	-0.53	2.982	-0.225	-0.86	ME
DU6Z7R		2.683	-0.381	-1.42	2.742	-0.465	-1.77	ME
DYBUZM		2.793	-0.271	-1.01	3.053	-0.153	-0.58	XX
KAUDKL		3.138	0.074	0.28	3.098	-0.108	-0.41	MC
L8LNVH		2.998	-0.066	-0.25	3.153	-0.053	-0.20	ME
LPGGFF		3.212	0.147	0.55	3.267	0.060	0.23	MC
MVMA9Q		3.467	0.402	1.50	3.520	0.313	1.19	MM
P862MB		3.138	0.074	0.28	3.375	0.168	0.64	MC
RD6Y9K		3.425	0.361	1.35	3.323	0.117	0.44	XX
UM674B		3.353	0.289	1.08	3.573	0.367	1.40	ME
UU97MD		3.382	0.317	1.19	3.505	0.298	1.14	MC
YPV2RD		2.757	-0.308	-1.15	3.023	-0.183	-0.70	MR
YUVDPY		3.190	0.126	0.47	3.440	0.233	0.89	ME
Z7HY9Y		2.821	-0.243	-0.91	3.111	-0.096	-0.36	MC

Summary Statistics

	Sample X65-X66	Sample X67-X68
Grand Means	3.0643 minutes	3.2067 minutes
Stnd Dev Btwn Labs	0.2676 minutes	0.2625 minutes

Statistics based on 24 of 24 reporting participants

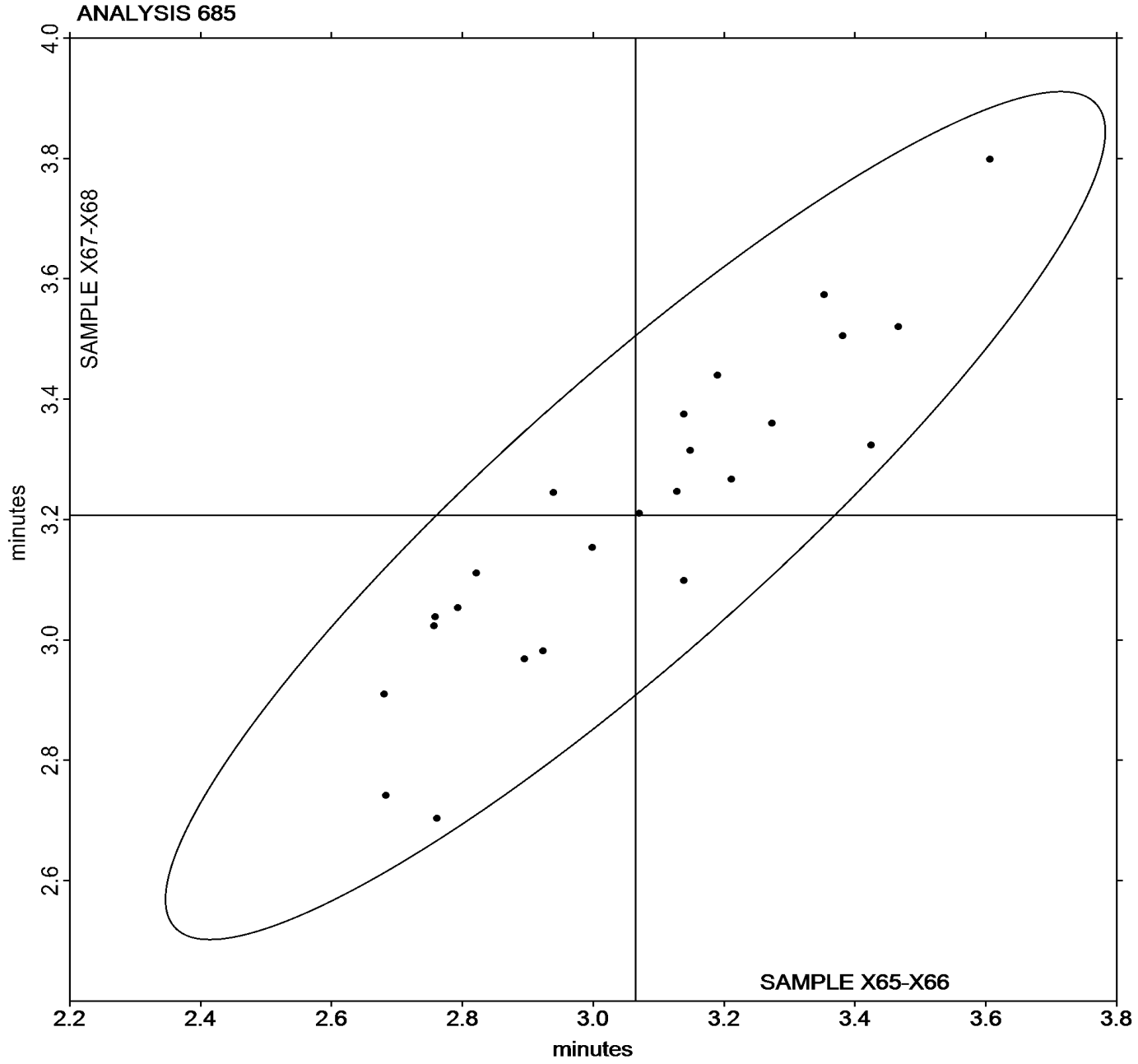
Samples X65-X66: EPDM Compound & X67-X68: EPDM Compound

Key to Instrument Codes Reported by Participants

MC	Alpha Technologies [Monsanto] MDR 2000 or 2000E	ME	Alpha Tech. MDR Premiere
MM	MonTech MDR 3000	MR	MonTech D-RPA 3000
XX	Instrument model not specified by lab		

Grand Mean Sample **X65-X66** = 3.0643 minutes

Grand Mean Sample **X67-X68** = 3.2067 minutes



MDR Vulcanization-Cure Time 50% (minutes)

WebCode	Data Flag	Sample X65-X66 Lab Mean	Sample X65-X66 Diff from Grand Mean	Sample X65-X66 CPV	Sample X67-X68 Lab Mean	Sample X67-X68 Diff from Grand Mean	Sample X67-X68 CPV	Instr Code
2NEN38		7.070	-0.426	-1.18	7.322	-0.247	-0.66	MC
3P6A94		7.611	0.115	0.32	7.720	0.151	0.40	MC
47MREA		7.585	0.089	0.25	7.572	0.003	0.01	XX
4VL6MD		7.435	-0.061	-0.17	7.415	-0.153	-0.41	XX
7HEXMX		7.272	-0.224	-0.62	7.400	-0.168	-0.45	MC
7LP9FT		6.893	-0.603	-1.66	6.782	-0.787	-2.10	MC
7WWNLZ		7.713	0.217	0.60	7.642	0.073	0.20	MC
9TKQ44		7.435	-0.061	-0.17	7.415	-0.153	-0.41	ME
9WK2Y4		7.332	-0.164	-0.45	7.240	-0.328	-0.87	MC
ABLXXV		7.818	0.322	0.89	7.808	0.240	0.64	ME
CEC7VM		7.283	-0.213	-0.59	7.253	-0.315	-0.84	ME
DU6Z7R		7.417	-0.079	-0.22	7.462	-0.107	-0.28	ME
DYBUZM		7.147	-0.349	-0.96	7.272	-0.297	-0.79	XX
G9QKCP		7.783	0.287	0.79	7.962	0.393	1.05	ME
KAUDKL		7.237	-0.259	-0.72	7.083	-0.485	-1.29	MC
L8LNVH		6.998	-0.498	-1.37	7.173	-0.395	-1.05	ME
LPGGFF		7.247	-0.249	-0.69	7.440	-0.128	-0.34	MC
MVMA9Q		7.530	0.034	0.09	7.592	0.023	0.06	MM
P862MB		7.827	0.331	0.91	8.005	0.437	1.16	MC
RD6Y9K	*	8.648	1.152	3.18	8.607	1.038	2.77	XX
UM674B		7.700	0.204	0.56	7.880	0.312	0.83	ME
UU97MD		7.620	0.124	0.34	7.713	0.145	0.39	MC
YPV2RD		7.250	-0.246	-0.68	7.573	0.005	0.01	MR
YUVDPY		7.807	0.311	0.86	7.870	0.302	0.80	ME
Z7HY9Y		7.738	0.242	0.67	8.007	0.438	1.17	MC

Summary Statistics

	Sample X65-X66	Sample X67-X68
Grand Means	7.4958 minutes	7.5683 minutes
Stnd Dev Btwn Labs	0.3621 minutes	0.3753 minutes

Statistics based on 25 of 25 reporting participants

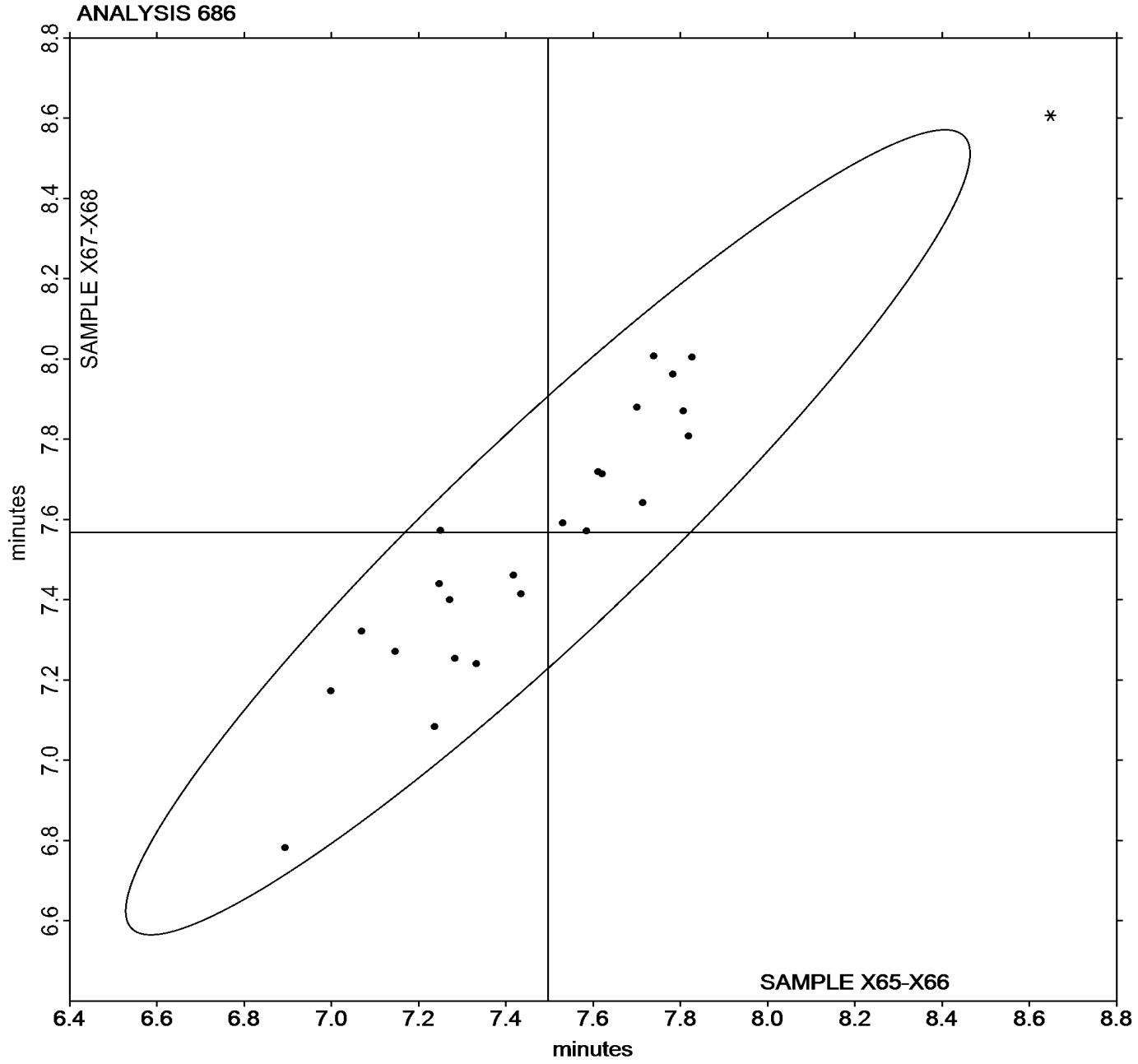
Samples X65-X66: EPDM Compound & X67-X68: EPDM Compound

Key to Instrument Codes Reported by Participants

MC	Alpha Technologies [Monsanto] MDR 2000 or 2000E	ME	Alpha Tech. MDR Premiere
MM	MonTech MDR 3000	MR	MonTech D-RPA 3000
XX	Instrument model not specified by lab		

Grand Mean Sample **X65-X66** = 7.4958 minutes

Grand Mean Sample **X67-X68** = 7.5683 minutes



MDR Vulcanization-Cure Time 90% (minutes)

WebCode	Data Flag	Sample X65-X66 Lab Mean	Sample X65-X66 Diff from Grand Mean	Sample X65-X66 CPV	Sample X67-X68 Lab Mean	Sample X67-X68 Diff from Grand Mean	Sample X67-X68 CPV	Instr Code
2NEN38		10.84	-0.52	-1.22	10.68	-0.53	-1.11	MC
3P6A94		11.47	0.11	0.27	11.37	0.16	0.33	MC
47MREA		11.31	-0.04	-0.10	11.19	-0.03	-0.05	XX
4VL6MD		11.47	0.11	0.27	11.22	0.01	0.02	XX
7HEXMX		11.07	-0.28	-0.66	10.97	-0.24	-0.50	MC
7LP9FT	*	10.34	-1.02	-2.38	9.86	-1.35	-2.81	XX
7WWNLZ		11.52	0.16	0.37	11.32	0.11	0.22	MC
9TKQ44		11.17	-0.19	-0.45	11.08	-0.13	-0.28	ME
9WK2Y4		10.92	-0.43	-1.02	10.84	-0.37	-0.77	MC
ABLXXV		11.54	0.18	0.42	11.28	0.06	0.13	ME
CEC7VM		11.08	-0.27	-0.64	10.85	-0.36	-0.75	ME
DU6Z7R		11.51	0.15	0.36	11.19	-0.02	-0.04	ME
DYBUZM		11.72	0.36	0.85	11.66	0.45	0.94	XX
G9QKCP		11.55	0.19	0.45	11.48	0.27	0.56	ME
KAUDKL		11.14	-0.22	-0.51	10.64	-0.57	-1.19	MC
L8LNVH		10.75	-0.60	-1.41	10.67	-0.54	-1.12	ME
LPGGFF		11.18	-0.18	-0.42	11.11	-0.10	-0.22	MC
MVMA9Q		11.53	0.17	0.40	11.47	0.26	0.54	MM
P862MB		11.66	0.31	0.72	11.66	0.45	0.93	MC
RD6Y9K	*	12.65	1.29	3.02	12.45	1.24	2.57	XX
UM674B		11.46	0.10	0.24	11.51	0.30	0.62	ME
UU97MD		11.54	0.18	0.43	11.52	0.30	0.63	MC
YPV2RD		11.34	-0.02	-0.05	11.30	0.09	0.18	MR
YUVDPY		11.71	0.35	0.83	11.57	0.36	0.74	ME
Z7HY9Y		11.45	0.10	0.23	11.41	0.20	0.41	MC

Summary Statistics

	Sample X65-X66	Sample X67-X68
Grand Means	11.356 minutes	11.211 minutes
Stnd Dev Btwn Labs	0.428 minutes	0.482 minutes

Statistics based on 25 of 25 reporting participants

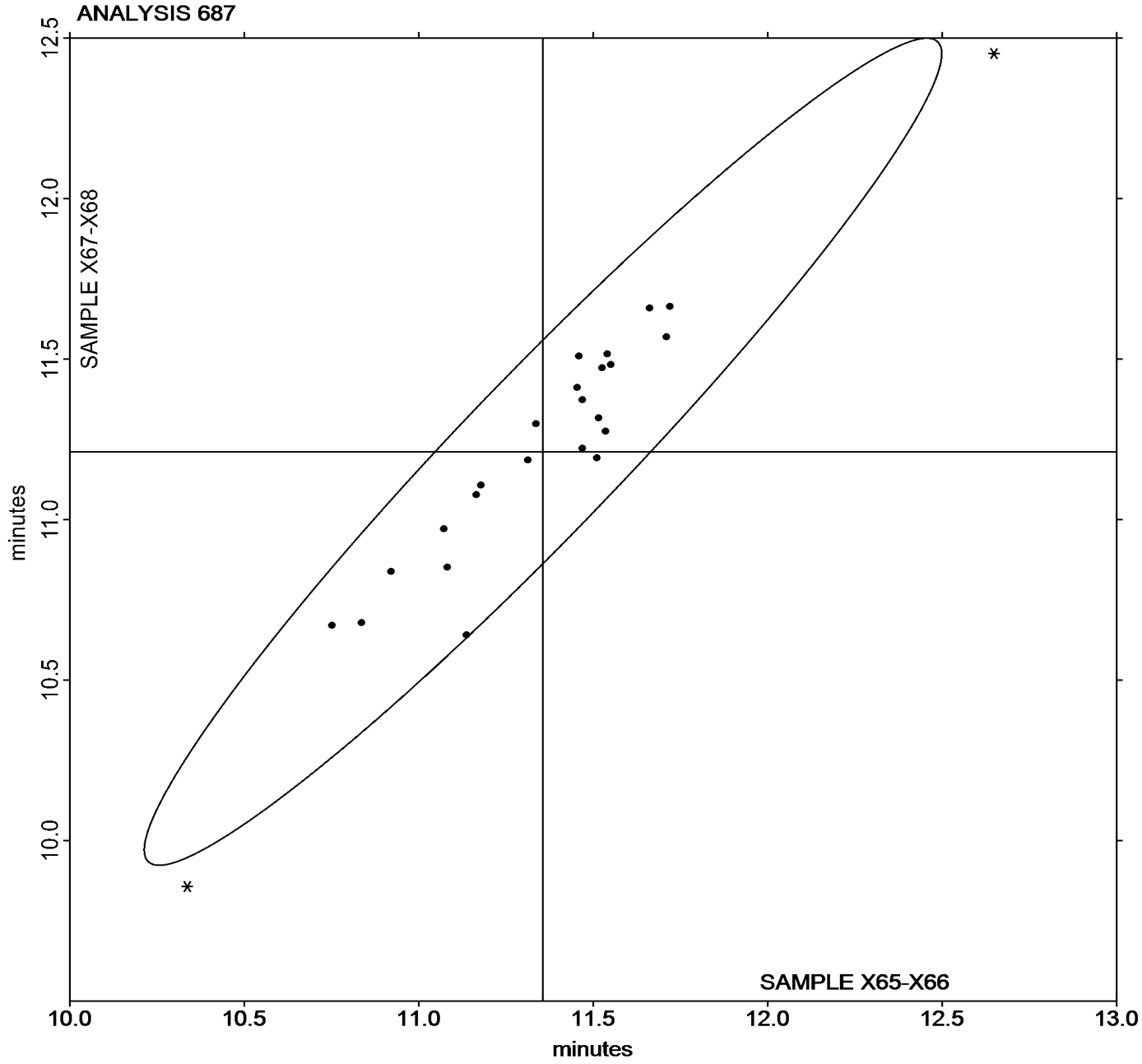
Samples X65-X66: EPDM Compound & X67-X68: EPDM Compound

Key to Instrument Codes Reported by Participants

MC	Alpha Technologies [Monsanto] MDR 2000 or 2000E	ME	Alpha Tech. MDR Premiere
MM	MonTech MDR 3000	MR	MonTech D-RPA 3000
XX	Instrument model not specified by lab		

Grand Mean Sample **X65-X66** = 11.356 minutes

Grand Mean Sample **X67-X68** = 11.211 minutes



WebCode	Data Flag	Sample X65-X66 Lab Mean	Diff from Grand Mean	CPV	Sample X67-X68 Lab Mean	Diff from Grand Mean	CPV	Instr Code
2NEN38		2.114	0.012	0.05	1.707	0.078	0.42	MC
3P6A94		2.017	-0.085	-0.33	1.622	-0.007	-0.04	MC
47MREA		1.842	-0.260	-1.01	1.358	-0.270	-1.44	MM
4VL6MD		2.539	0.437	1.70	1.897	0.269	1.43	XX
7HEXMX		1.748	-0.353	-1.37	1.353	-0.275	-1.46	MC
7LP9FT		2.193	0.092	0.36	1.757	0.128	0.68	MC
7WWNLZ		1.927	-0.175	-0.68	1.467	-0.162	-0.86	MC
9TKQ44		1.953	-0.148	-0.58	1.535	-0.093	-0.50	ME
9WK2Y4		1.962	-0.140	-0.54	1.537	-0.092	-0.49	MC
ABLXXV		2.053	-0.048	-0.19	1.574	-0.055	-0.29	ME
CEC7VM		2.286	0.185	0.72	1.835	0.207	1.10	ME
DU6Z7R		2.105	0.004	0.01	1.598	-0.031	-0.16	ME
DYBUZM	X	3.242	1.140	4.44	2.707	1.078	5.73	XX
G9QKCP		2.003	-0.098	-0.38	1.543	-0.085	-0.45	ME
KAUDKL		2.643	0.542	2.11	1.998	0.370	1.97	MC
L8LNVH		2.395	0.294	1.14	1.870	0.242	1.28	ME
LPGGFF		2.313	0.212	0.82	1.777	0.148	0.79	MC
MVMA9Q		2.152	0.050	0.20	1.677	0.048	0.26	MM
P862MB		1.995	-0.106	-0.41	1.538	-0.090	-0.48	MC
RD6Y9K		2.688	0.587	2.28	1.993	0.365	1.94	XX
UM674B		1.810	-0.291	-1.13	1.407	-0.222	-1.18	ME
UU97MD		1.938	-0.163	-0.63	1.502	-0.127	-0.67	MC
YPV2RD		1.952	-0.150	-0.58	1.502	-0.127	-0.67	MR
YUVDPY		1.848	-0.253	-0.98	1.457	-0.172	-0.91	ME
Z7HY9Y		1.957	-0.144	-0.56	1.581	-0.047	-0.25	MC

Summary Statistics

	Sample X65-X66	Sample X67-X68
Grand Means	2.1015 lbf.in	1.6285 lbf.in
Stnd Dev Btwn Labs	0.2570 lbf.in	0.1882 lbf.in

Statistics based on 24 of 25 reporting participants

Summary Statistics in SI Units		
Grand Means	2.3743 dN.m	1.8399 dN.m
Stnd Dev Btwn Labs	0.2904 dN.m	0.2126 dN.m
		Statistics based on 24 of 25 reporting participants

Samples X65-X66: EPDM Compound & X67-X68: EPDM Compound

Comments on Assigned Data Flags for Test #688

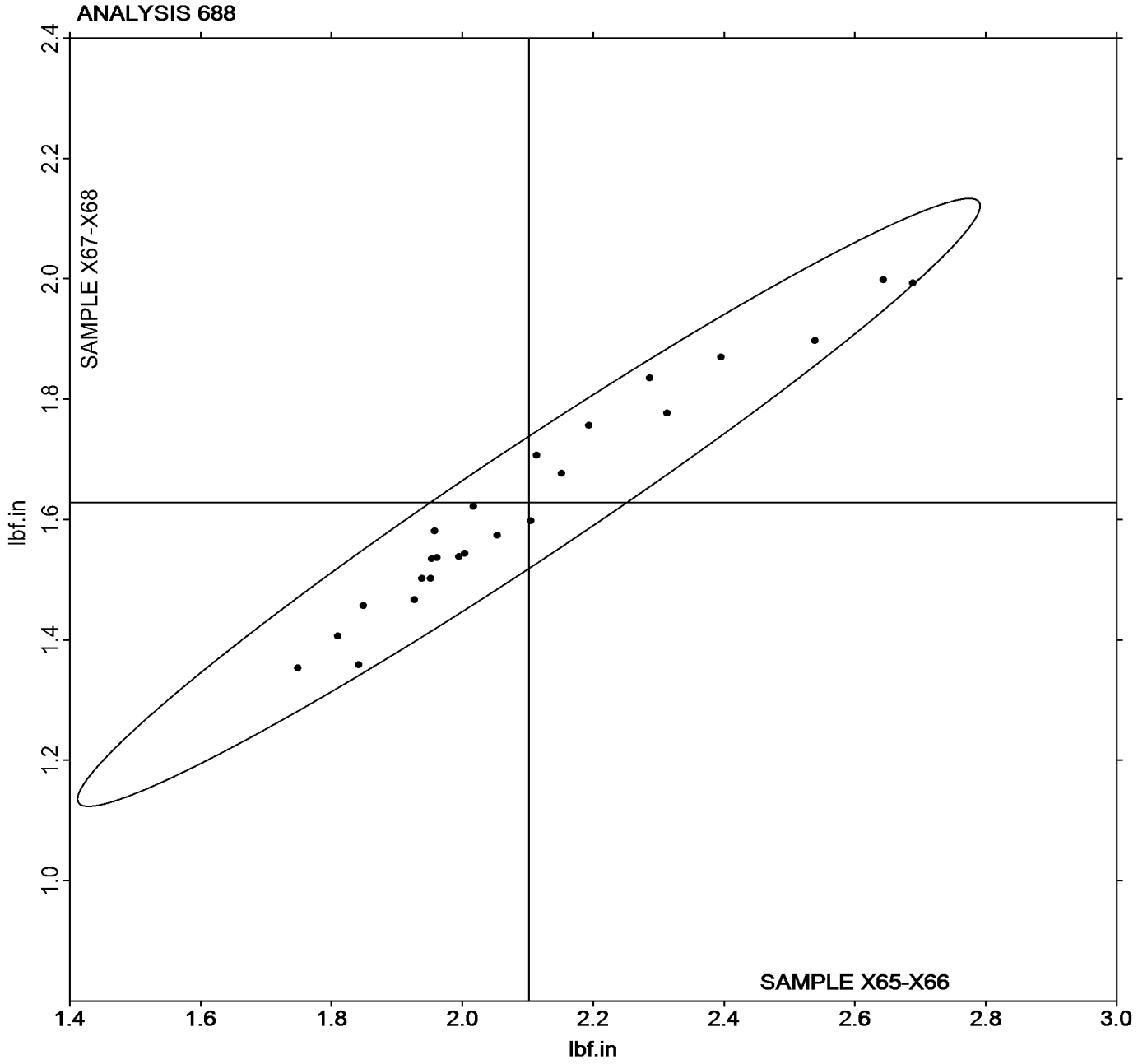
DYBUZM (X) - Data for all samples are high. Inconsistent within the determinations of sample group X67-X68.

Key to Instrument Codes Reported by Participants

MC	Alpha Technologies [Monsanto] MDR 2000 or 2000E	ME	Alpha Tech. MDR Premiere
MM	MonTech MDR 3000	MR	MonTech D-RPA 3000
XX	Instrument model not specified by lab		

Grand Mean Sample **X65-X66** = 2.1015 lbf.in

Grand Mean Sample **X67-X68** = 1.6285 lbf.in



WebCode	Data Flag	Sample X65-X66 Lab Mean	Diff from Grand Mean	CPV	Sample X67-X68 Lab Mean	Diff from Grand Mean	CPV	Instr Code
2NEN38		11.70	0.21	0.33	11.65	0.22	0.34	MC
3P6A94		11.77	0.28	0.43	11.78	0.35	0.54	MC
47MREA		10.15	-1.34	-2.08	9.91	-1.51	-2.30	MM
4VL6MD		12.28	0.79	1.23	11.87	0.45	0.68	XX
7HEXMX		11.11	-0.38	-0.59	10.78	-0.65	-0.99	MC
7LP9FT		12.10	0.61	0.95	11.72	0.30	0.45	MC
7WWNLZ		11.30	-0.19	-0.30	11.64	0.21	0.32	MC
9TKQ44		11.02	-0.47	-0.73	11.41	-0.02	-0.02	ME
9WK2Y4		11.18	-0.31	-0.49	11.62	0.19	0.29	MC
ABLXXV		11.20	-0.29	-0.45	11.08	-0.34	-0.52	ME
CEC7VM		12.12	0.63	0.98	12.24	0.81	1.24	ME
DU6Z7R		11.75	0.26	0.41	11.83	0.41	0.62	ME
DYBUZM	X	16.31	4.82	7.51	16.15	4.72	7.19	XX
G9QKCP		11.78	0.29	0.45	11.96	0.54	0.81	ME
KAUDKL		11.81	0.32	0.50	11.14	-0.29	-0.44	MC
L8LNVH		11.68	0.19	0.30	11.38	-0.04	-0.06	ME
LPGGFF		11.18	-0.31	-0.49	10.95	-0.47	-0.72	ME
MVMA9Q		10.07	-1.42	-2.21	9.97	-1.46	-2.22	MM
P862MB		12.33	0.84	1.30	11.95	0.53	0.80	MC
RD6Y9K		12.90	1.41	2.19	12.80	1.38	2.10	XX
UM674B		10.82	-0.67	-1.04	10.65	-0.77	-1.18	ME
UU97MD		11.33	-0.16	-0.25	11.76	0.33	0.51	MC
YPV2RD		11.33	-0.16	-0.25	11.30	-0.12	-0.19	MR
YUVDPY		11.35	-0.14	-0.22	11.17	-0.25	-0.38	ME
Z7HY9Y		11.51	0.02	0.03	11.64	0.21	0.32	MC

Summary Statistics

	Sample X65-X66	Sample X67-X68
Grand Means	11.490 lbf.in	11.425 lbf.in
Stnd Dev Btwn Labs	0.642 lbf.in	0.657 lbf.in

Statistics based on 24 of 25 reporting participants

Summary Statistics in SI Units		
Grand Means	12.982 dN.m	12.908 dN.m
Stnd Dev Btwn Labs	0.726 dN.m	0.742 dN.m

Statistics based on 24 of 25 reporting participants

Samples X65-X66: EPDM Compound & X67-X68: EPDM Compound

Comments on Assigned Data Flags for Test #689

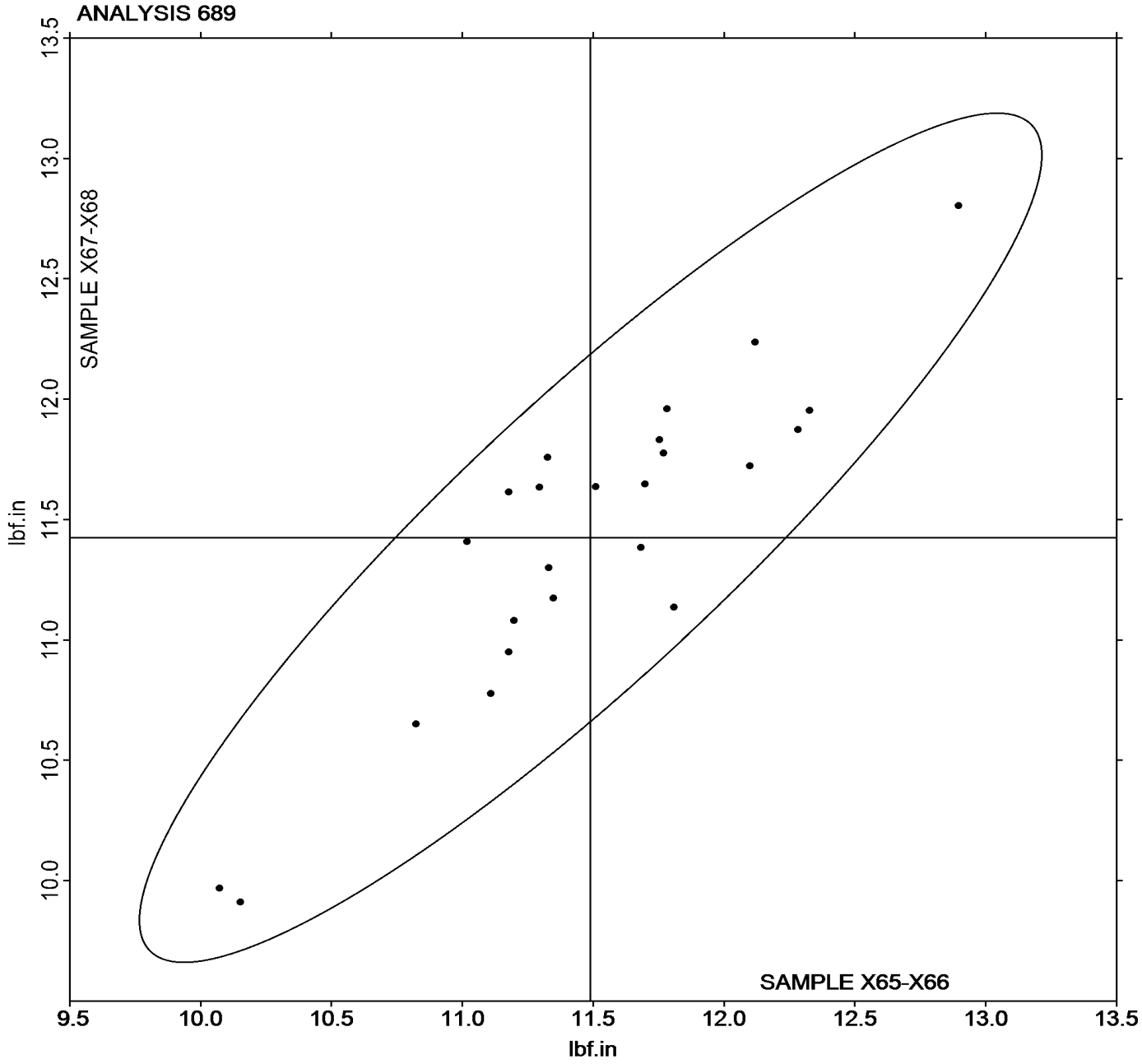
DYBUZM (X) - Data for all samples are high. Possible Systematic Error. Inconsistent within the determinations of sample group X67-X68.

Key to Instrument Codes Reported by Participants

MC	Alpha Technologies [Monsanto] MDR 2000 or 2000E	ME	Alpha Tech. MDR Premiere
MM	MonTech MDR 3000	MR	MonTech D-RPA 3000
XX	Instrument model not specified by lab		

Grand Mean Sample **X65-X66** = 11.490 lbf.in

Grand Mean Sample **X67-X68** = 11.425 lbf.in



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

WebCode	Data Flag	Sample F61-F62 Lab Mean	Sample F61-F62 Diff from Grand Mean	Sample F61-F62 CPV	Sample F63-F64 Lab Mean	Sample F63-F64 Diff from Grand Mean	Sample F63-F64 CPV	Instr Code
2NEN38		532.4	6.3	0.71	482.4	9.9	0.71	RP
Z7HY9Y		519.9	-6.3	-0.71	462.5	-9.9	-0.71	RP

Summary Statistics

	F61-F62	F63-F64
Grand Means	526.17 kPa	472.45 kPa
Stnd Dev Btwn Labs	8.84 kPa	14.03 kPa

Statistics based on 2 of 2 reporting participants

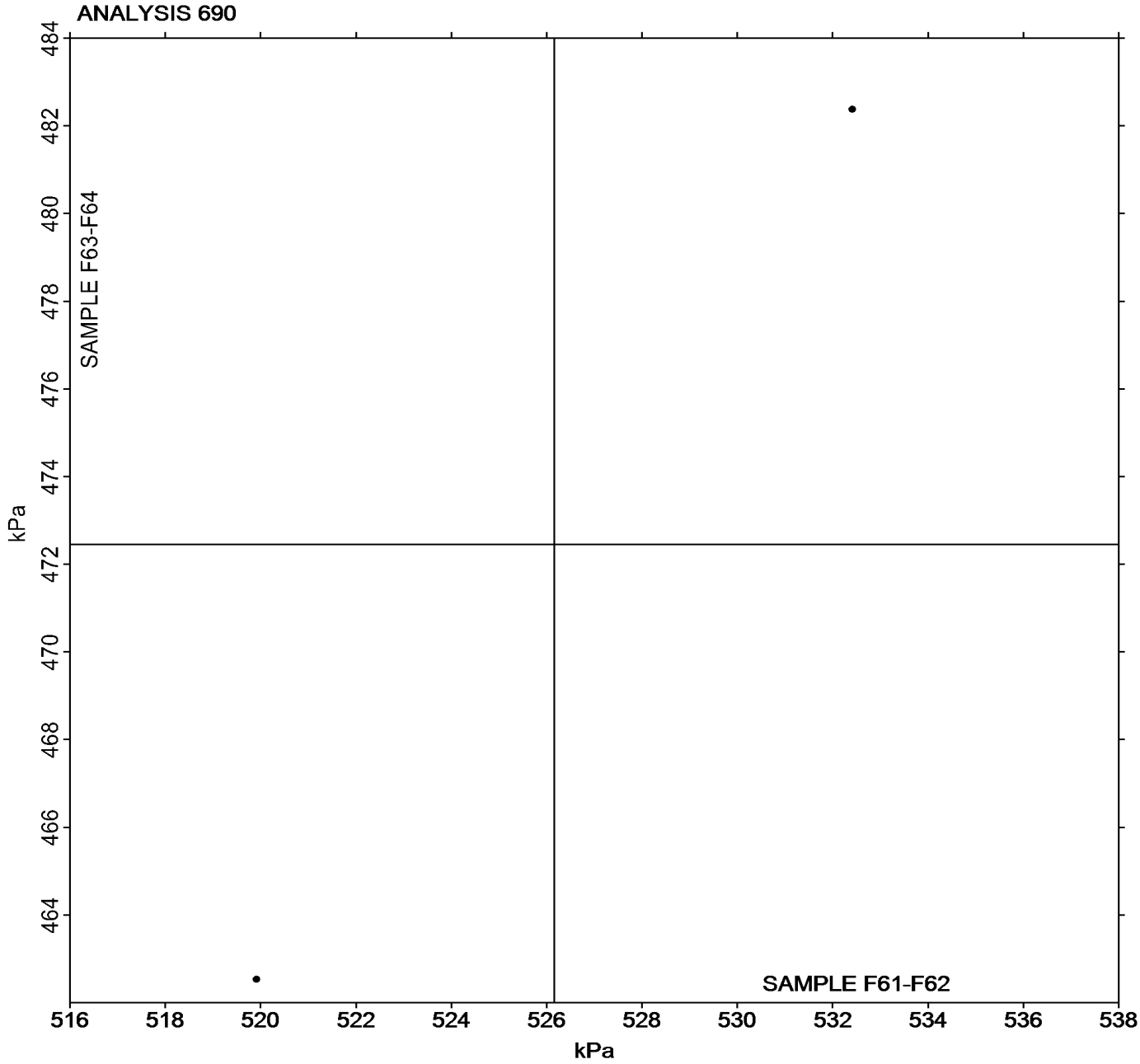
Samples F61-F62: EPDM Compound & F63-F64: EPDM Compound

Key to Instrument Codes Reported by Participants

RP RPA 2000

Grand Mean Sample **F61-F62** = 526.17 kPa

Grand Mean Sample **F63-F64** = 472.45 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 F61-F62 Lab Mean	Sample F61-F62 Diff from Grand Mean	Sample F61-F62 CPV	Sample F63-F64 Lab Mean	Sample F63-F64 Diff from Grand Mean	Sample F63-F64 CPV	Instr Code
2NEN38		232.3	-4.6	-0.71	229.1	-2.6	-0.71	RP
Z7HY9Y		241.5	4.6	0.71	234.3	2.6	0.71	RP

Summary Statistics

	Sample F61-F62	Sample F63-F64
Grand Means	236.86 kPa	231.68 kPa
Stnd Dev Btwn Labs	6.50 kPa	3.69 kPa

Statistics based on 2 of 2 reporting participants

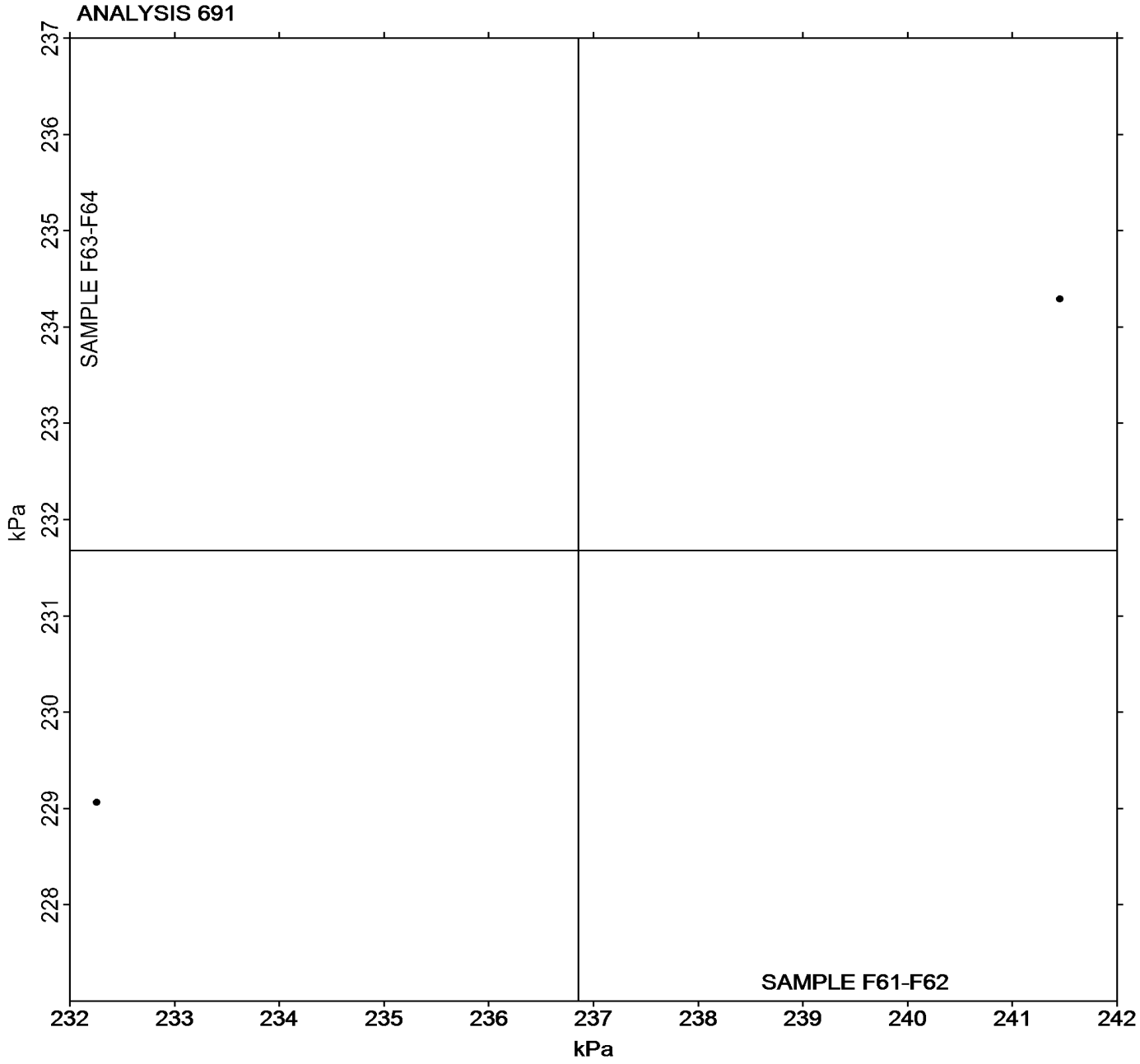
Samples F61-F62: EPDM Compound & F63-F64: EPDM Compound

Key to Instrument Codes Reported by Participants

RP RPA 2000

Grand Mean Sample **F61-F62** = 236.86 kPa

Grand Mean Sample **F63-F64** = 231.68 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 F61-F62 Lab Mean	Diff from Grand Mean	CPV	Sample F63-F64 Lab Mean	Diff from Grand Mean	CPV	Instr Code
2NEN38		75.94	2.47	0.71	62.76	2.66	0.71	RP
Z7HY9Y		71.00	-2.47	-0.71	57.44	-2.66	-0.71	RP

Summary Statistics

	Sample F61-F62	Sample F63-F64
Grand Means	73.466 kPa	60.101 kPa
Stnd Dev Btwn Labs	3.494 kPa	3.761 kPa

Statistics based on 2 of 2 reporting participants

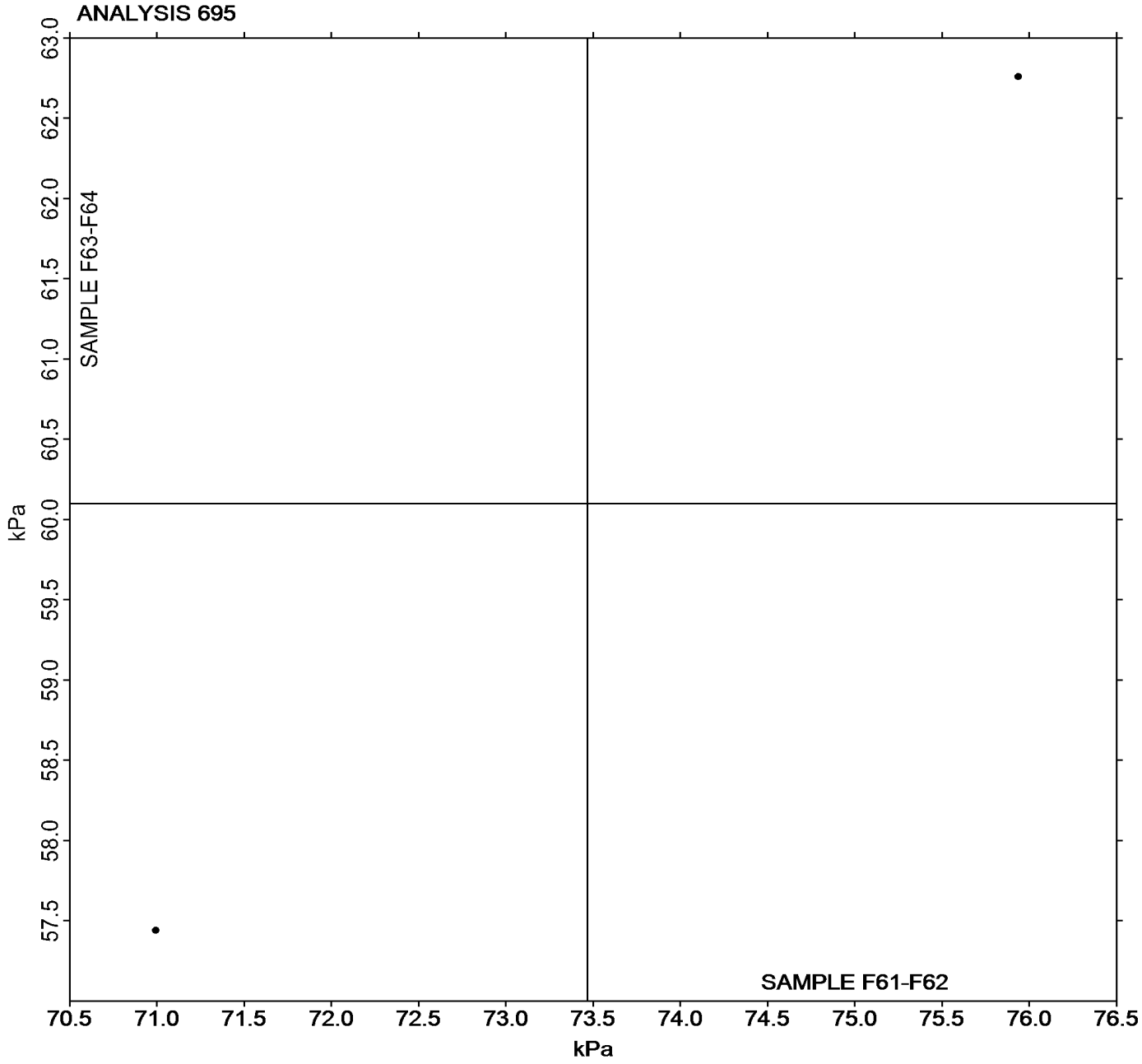
Samples F61-F62: EPDM Compound & F63-F64: EPDM Compound

Key to Instrument Codes Reported by Participants

RP RPA 2000

Grand Mean Sample **F61-F62** = 73.466 kPa

Grand Mean Sample **F63-F64** = 60.101 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 F61-F62 Lab Mean	Sample F61-F62 Diff from Grand Mean	Sample F61-F62 CPV	Sample F63-F64 Lab Mean	Sample F63-F64 Diff from Grand Mean	Sample F63-F64 CPV	Instr Code
2NEN38		83.45	0.14	0.71	76.45	0.92	0.71	RP
Z7HY9Y		83.17	-0.14	-0.71	74.62	-0.92	-0.71	RP

Summary Statistics

	Sample F61-F62	Sample F63-F64
Grand Means	83.313 kPa	75.534 kPa
Stnd Dev Btwn Labs	0.197 kPa	1.298 kPa

Statistics based on 2 of 2 reporting participants

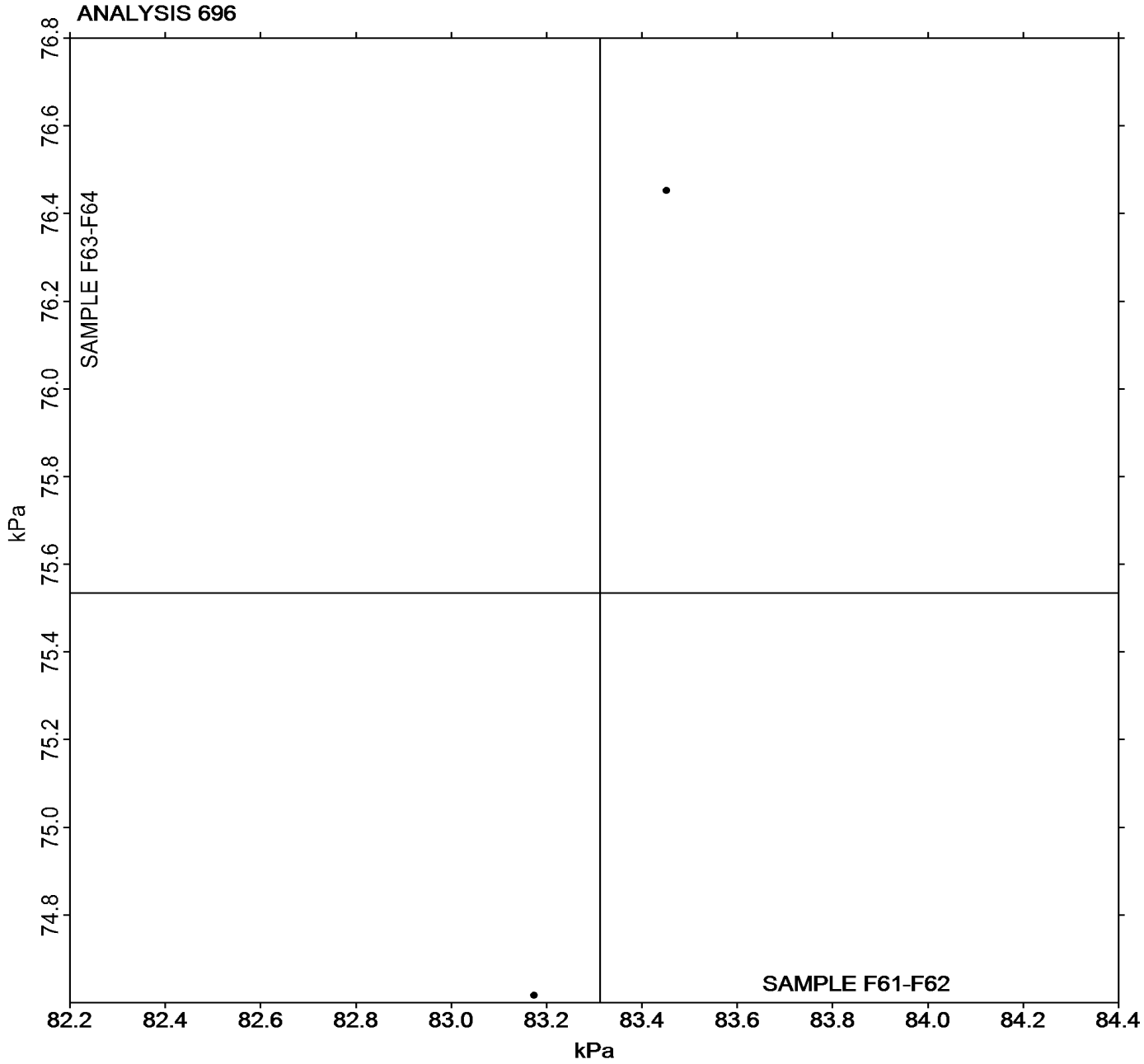
Samples F61-F62: EPDM Compound & F63-F64: EPDM Compound

Key to Instrument Codes Reported by Participants

RP RPA 2000

Grand Mean Sample **F61-F62** = 83.313 kPa

Grand Mean Sample **F63-F64** = 75.534 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-