Collaborative Testing Services, Inc.

Fasteners & Metals Interlaboratory Testing Program

Summary Report Cycle 131, 3rd Qtr 2020

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ABOUT THE FASTENERS & METALS PROGRAM

Collaborative Testing Services operates and maintains the program for Fasteners and Metals as part of a series of Proficiency and Interlaboratory Testing Programs offered by CTS in cooperation with various associations for a wide range of industries. Personnel from the National Institute of Standards and Technology (formerly the National Bureau of Standards), Industrial Fasteners Institute (IFI), and the Naval Shipyard Laboratories provide technical guidance and advice to this program.

The purpose of the program is to give participating laboratories a means to compare periodically the level and uniformity of their testing with that of other laboratories in the industry. It also provides a realistic assessment of the state of fasteners and metals testing proficiency.

In each report, there is a summary of the statistics for the analysis and a graphical representation of the data for each test. Also shown are notes concerning specific laboratory results, as well as significant findings related to instrument types or other testing variations. Refer to the KEY 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 50 countries, currently participate in the CTS programs.
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Key for Fasteners & Metals Program Web Summary Report

WebCode - Assigned laboratory identification number(temporary)used to ensure lab confidentiality while permitting a lab to locate its data in the report published on the CTS website.

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

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

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 (CPV) - 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. CPV = (LAB MEAN - GRAND MEAN)/ BETWEEN-LAB STANDARD DEVIATION. 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).

Instr. Code - 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 Flags

Data Flag Type	Statistically Included/Excluded	ACTION REQUIRED
*	INCLUDED	CAUTION - review testing procedure and monitor future results. Results fall outside the drawn 95% ellipse but within a 99% ellipse that is calculated but not drawn. Labs flagged with an * do not typically receive a specific note regarding the flag. If this error is repeated in future rounds, however, a lab may need to stop and review its testing procedures. The initial data flag is not cause for alarm.
X	EXCLUDED	STOP - immediate review of data and/or testing procedure is required (all tests exept Chemical Analyses). Results fall outside the 99% ellipse. See the specific note following the data for more information on why the data are excluded. For Chemical Analyses see an additional Memo.
M	EXCLUDED	PROCEED - lab was unable to report data for at least one sample. However, a lab receiving two or more M flags for a test may need to stop and review its testing procedures.

Graph - For each laboratory, the Lab Mean for the second sample (y-axis) is plotted against the Lab Mean for the first sample (x-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 included 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. Labs not receiving a data flag appear as points on the plot.

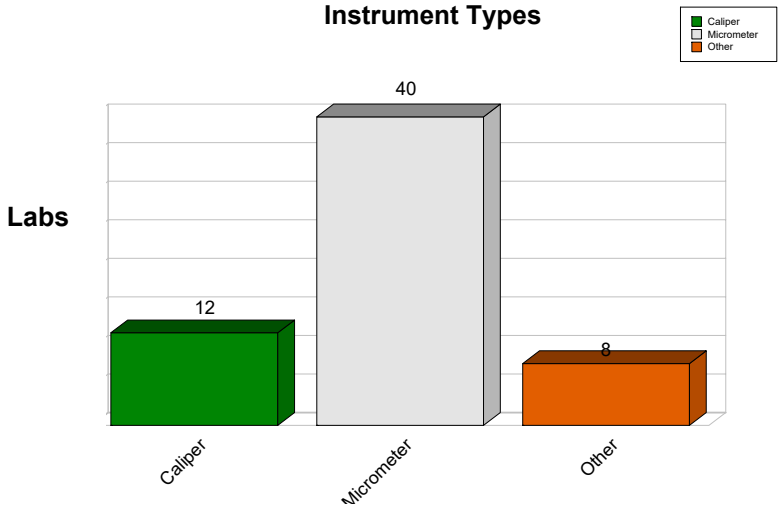
Fasteners and Metals Interlaboratory Testing Program

Analysis 1001

Dimensional: Outside Diameter of Plain Plug Gage
ISO GUM

Cycle 131
3rd Qtr 2020

During Cycle 131, CTS conducted the Analysis #101 - Round Dimensional. For this test all participants received two samples I69 and I70 with nominal diameters; 0.4996 in. and 0.5000 in. Each sample is an English Class X gage pin with 0.00002 in roundness limit made from 52100 bearing steel, hardened to 60-62 Rockwell C. Laboratories were asked to determine the outside diameter of the pins. 60 laboratories that subscribed for this test reported testing results. The graph below shows a breakdown of the types of instruments used.



Analysis of the Results

The most convenient and common method of judging the quality of measurement results is by calculating the performance statistic, En, calculated as:

$$E_n = \frac{\left(X_{lab} - X_{ref}\right)}{\sqrt{U_{lab}^2 + U_{ref}^2}}$$

Where the assigned value, Xref, is determined in a reference laboratory, Uref is the expanded uncertainty of Xref, and Ulab is the **Expanded Uncertainty** of a participant's result, Xlab. En is not calculated for Labs who did not report their Expanded Uncertainty.

Absolute values of En less than **1.00** should be obtained for the measurements to be acceptable.

The following graph and the table represent the results reported by participants. All tests were conducted at room temperature (20-23C or 68-77F).

Xref and Uref were determined by the gage pin manufacturer. The manufacturer is ISO 9001:2000 Certified and an ISO 17025 Accredited company. All master gages used in checking the plug gages are calibrated with standards traceable to NIST.

$$E_n = \frac{\left(X_{lab} - X_{ref}\right)}{\sqrt{U_{lab}^2 + U_{ref}^2}}$$

Xref1 = 0.4996 in.

Xref2 = 0.5000 in.

WebCode	Data Flag (if assigned)	Reference Uncertainty (Uref)	Expanded Uncertainty (Ulab)	Sample I69 Lab Mean (Xlab)	Sample I69 Performance Statistic (En1)	Sample I70 Lab Mean (Xlab)	Sample I70 Performance Statistic (En2)	Instrument
3BNWRB		0.00004	0.04331	0.49952	0.00	0.49987	0.00	Micrometer
3JHXDV		0.00004	Not Reported	0.49957		0.49997		Micrometer
4BMFCR		0.00004	0.00015	0.49960	0.00	0.49996	-0.26	Micrometer
4H6TBQ		0.00004	0.00120	0.49958	-0.02	0.50002	0.02	Micrometer
6APBCP	X	0.00004	0.00050	0.50056	1.91	0.50102	2.03	Other
7V67NT		0.00004	0.00100	0.49920	-0.40	0.49970	-0.30	Caliper
83GURT		0.00004	0.00008	0.49959	-0.10	0.49999	-0.09	Micrometer
8WRAND		0.00004	0.00090	0.49948	-0.13	0.49980	-0.22	Micrometer
9T7MVQ	X	0.00004	0.00003	0.49950	-2.00	0.49990	-2.00	Micrometer
9WPWNN		0.00004	0.00100	0.50000	0.40	0.50050	0.50	Caliper
9X49K8		0.00004	0.00040	0.49954	-0.15	0.49982	-0.45	Micrometer
AB4GLM		0.00004	Not Reported	0.49946		0.49982		Micrometer
AKMZW7		0.00004	0.00059	0.49951	-0.15	0.49997	-0.05	Micrometer
AP7TGL		0.00004	0.00050	0.49960	0.00	0.50000	0.00	Micrometer
AT2PVE	X	0.00004	0.00013	0.49945	-1.10	0.49991	-0.66	Micrometer
AUF8YK		0.00004	0.00260	0.49960	0.00	0.49980	-0.08	Caliper
B2BHLZ		0.00004	Not Reported	0.49956		0.50001		Micrometer
BWWZ4J		0.00004	0.00039	0.49959	-0.02	0.50002	0.04	Micrometer
CU8QW4	X	0.00004	0.00005	0.49950	-1.56	0.50000	0.00	Caliper
D2NP33		0.00004	0.00150	0.49900	-0.40	0.49950	-0.33	Caliper
DKGRGH	X	0.00004	0.00020	0.49956	-0.20	0.50024	1.18	Caliper
DQN9XJ		0.00004	Not Reported	0.49950		0.50000		Other
EL8BXA		0.00004	0.00015	0.49960	0.00	0.50000	0.00	Micrometer
F6GPUU		0.00004	0.00200	0.49949	-0.06	0.49998	-0.01	Micrometer
F862TZ		0.00004	Not Reported	0.49950		0.50000		Micrometer
G6BQFC		0.00004	0.00016	0.49958	-0.12	0.49997	-0.19	Micrometer
GHZUEW		0.00004	0.00030	0.49955	-0.17	0.49990	-0.33	Micrometer
GY62UX		0.00004	0.00094	0.49957	-0.03	0.49991	-0.10	Micrometer
J4BEN3	X	0.00004	0.00008	0.49940	-2.24	0.49980	-2.24	Micrometer
KAVPJH		0.00004	0.00044	0.49950	-0.23	0.49990	-0.23	Micrometer
KJMALA		0.00004	Not Reported	0.49960		0.50000		Micrometer
L6GJEV		0.00004	0.00030	0.49960	0.00	0.50000	0.00	Micrometer
LL4YHR		0.00004	Not Reported	0.49954		0.49998		Other

$$E_n = \frac{\left(X_{lab} - X_{ref}\right)}{\sqrt{U_{lab}^2 + U_{ref}^2}}$$

Xref1 = 0.4996 in.

Xref2 = 0.5000 in.

WebCode	Data Flag (if assigned)	Reference Uncertainty (Uref)	Expanded Uncertainty (Ulab)	Sample I69 Lab Mean (Xlab)	Sample I69 Performance Statistic (En1)	Sample I70 Lab Mean (Xlab)	Sample I70 Performance Statistic (En2)	Instrument
MHYJRF		0.00004	0.00016	0.49965	0.33	0.50011	0.68	Micrometer
NTBEYQ		0.00004	0.00007	0.49958	-0.29	0.50000	0.00	Micrometer
NU9MAV	X	0.00004	0.00016	0.49942	-1.12	0.49986	-0.87	Micrometer
PAJNHQ		0.00004	0.00013	0.49960	0.00	0.50000	0.00	Micrometer
PBUNLD		0.00004	0.00020	0.49961	0.03	0.50000	0.00	Micrometer
PDVY9Z		0.00004	0.00040	0.49928	-0.80	0.49985	-0.37	Micrometer
PVZ7N3	X	0.00004	0.00009	0.49940	-2.09	0.49986	-1.46	Micrometer
QMY9FP		0.00004	0.00004	0.49957	-0.58	0.49996	-0.70	Micrometer
R2Z4AB	X	0.00004	0.00012	0.49978	1.44	0.50017	1.39	Other
RACELB		0.00004	0.00201	0.49960	0.00	0.49990	-0.05	Micrometer
RK9GP6		0.00004	0.00008	0.49959	-0.10	0.50002	0.18	Micrometer
TANEYW		0.00004	4.47020	0.49936	0.00	0.49978	0.00	Micrometer
TQUWT3		0.00004	0.00024	0.49954	-0.26	0.49994	-0.25	Micrometer
U9N2PA		0.00004	0.00042	0.49986	0.62	0.49980	-0.47	Caliper
UJMRBG		0.00004	0.00040	0.49954	-0.15	0.50000	0.00	Micrometer
UXTJK3		0.00004	0.00118	0.49945	-0.13	0.50000	0.00	Caliper
V4BFHN		0.00004	2.00000	0.49955	0.00	0.49995	0.00	Other
VE9GT8	X	0.00004	0.00023	0.49926	-1.46	0.49962	-1.63	Other
VH9RN8	X	0.00004	0.00022	0.49932	-1.25	0.49958	-1.88	Other
VU3W4Y		0.00004	0.00118	0.49961	0.01	0.50000	0.00	Caliper
W3UJQN		0.00004	0.00047	0.49962	0.05	0.50000	0.00	Micrometer
WTL4JG		0.00004	Not Reported	0.49950		0.50000		Other
X8L4D6		0.00004	0.00019	0.49946	-0.71	0.50000	0.00	Micrometer
YAK3HU		0.00004	0.00200	0.49820	-0.70	0.49880	-0.60	Caliper
YHF7LQ		0.00004	0.00015	0.49954	-0.38	0.49994	-0.38	Micrometer
ZGY9UR		0.00004	0.00210	0.49900	-0.29	0.50000	0.00	Caliper
ZU9MBR	X	0.00004	0.00090	0.49800	-1.78	0.49830	-1.89	Caliper

Summary Statistics

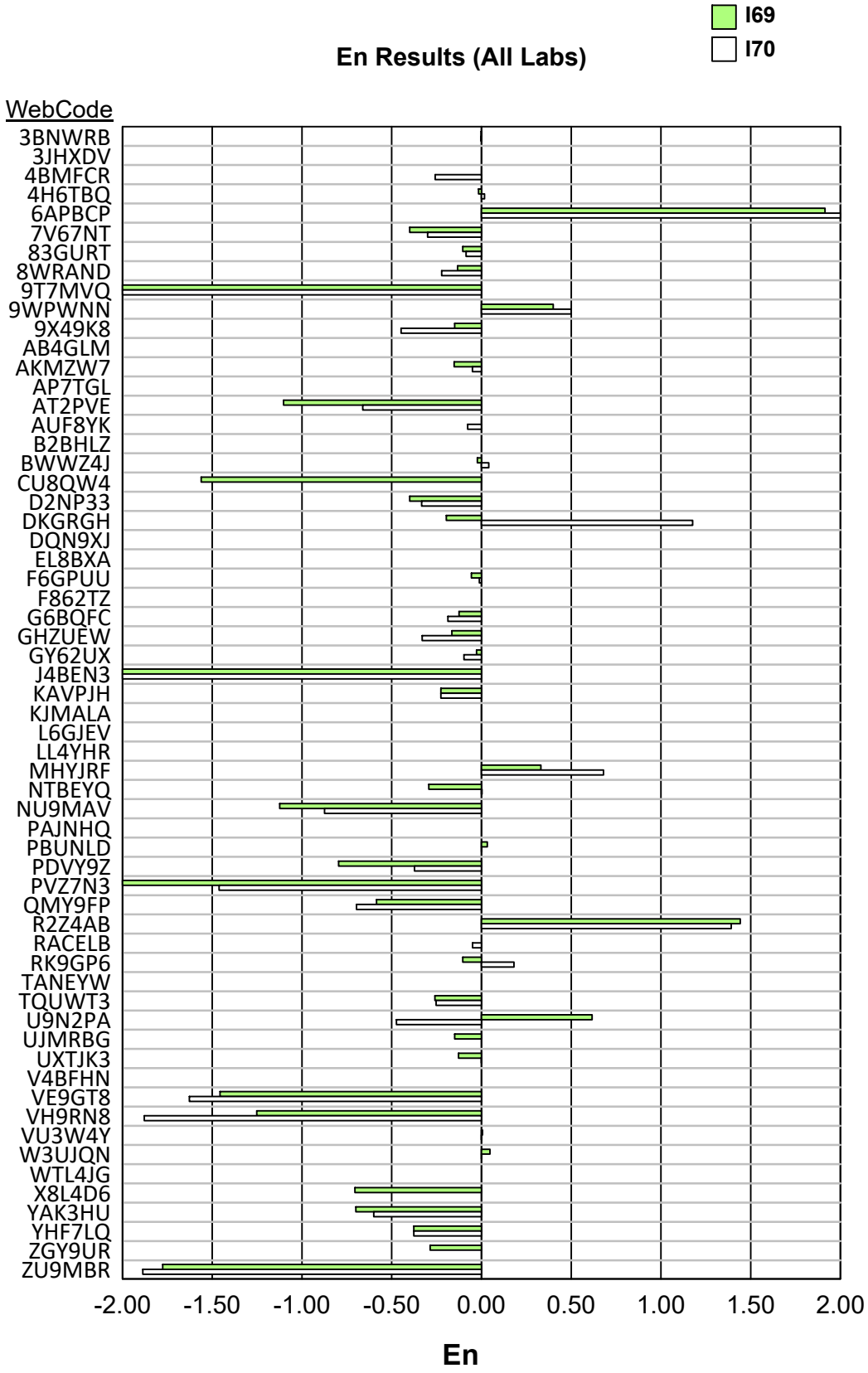
	Sample I69		Sample I70	
Grand Means	0.4995	inch	0.5000	inch
Stnd Dev Btwn Labs	0.0001	inch	0.0001	inch

Samples I69, I70 : 52100 Steel, 52100 Steel

Statistics based on 46 of 60 reporting participants

Comments on Assigned Data Flags for Test #1001

6APBCP (X) - En value for both samples was high.
9T7MVQ (X) - En value for both samples was low.
AT2PVE (X) - En value for sample I69 was low.
CU8QW4 (X) - En value for sample I69 was low.
DKGRGH (X) - En value for sample I70 was high.
J4BEN3 (X) - En value for both samples was low.
LL4YHR (O) - En value for sample I69 was low.
NU9MAV (X) - En value for sample I69 was low.
PVZ7N3 (X) - En value for both samples was low.
R2Z4AB (X) - En value for both samples was high.
VE9GT8 (X) - En value for both samples was low.
VH9RN8 (X) - En value for both samples was low.
WTL4JG (O) - En value for sample I69 was low.
ZU9MBR (X) - En value for both samples was low.



		Sample R69			Sample R70		
WebCode	Data Flag	Lab Mean	Diff. from Grand Mean	CPV	Lab Mean	Diff. from Grand Mean	CPV
2HPUX3		49.60	0.08	0.15	48.00	-0.04	-0.08
2KJ9VT	*	48.05	-1.47	-2.75	47.02	-1.02	-2.12
47M9QU		49.70	0.18	0.33	48.30	0.26	0.54
4CCTUA		49.70	0.18	0.33	48.20	0.16	0.34
642Q7N		50.22	0.70	1.30	49.06	1.02	2.13
66RPM8		49.17	-0.35	-0.66	47.72	-0.32	-0.67
676LRC		49.40	-0.12	-0.23	48.10	0.06	0.13
6NKVQR		49.68	0.15	0.29	47.91	-0.13	-0.28
79RF7R		49.70	0.18	0.33	48.20	0.16	0.34
7DHUQT	*	50.20	0.68	1.27	47.40	-0.64	-1.33
84CCTV		50.20	0.68	1.27	48.80	0.76	1.59
8YFNCN		49.89	0.37	0.69	48.30	0.26	0.54
9UL26L		48.90	-0.62	-1.16	48.30	0.26	0.54
AMZBAD		48.75	-0.77	-1.45	47.44	-0.60	-1.24
BBJZ6K		48.70	-0.82	-1.53	48.10	0.06	0.13
BP4HXN		49.30	-0.22	-0.41	47.80	-0.24	-0.50
CCQRMY		49.50	-0.02	-0.04	47.90	-0.14	-0.29
CMBYLN		49.75	0.23	0.42	48.01	-0.03	-0.07
CNXXFD	*	50.60	1.08	2.01	49.50	1.46	3.05
DKGRGH		49.28	-0.24	-0.45	47.54	-0.50	-1.04
EAC2CL		49.38	-0.14	-0.26	48.04	0.00	-0.01
F3CVGJ		48.80	-0.72	-1.35	47.30	-0.74	-1.54
F4MUDD		49.60	0.08	0.15	48.30	0.26	0.54
FFVMWD		49.33	-0.19	-0.36	47.83	-0.20	-0.43
FVAVVV	X	48.56	-0.97	-1.81	50.60	2.56	5.33
FZJB6K		48.73	-0.79	-1.48	47.44	-0.60	-1.25
G4X7KG		49.90	0.38	0.71	48.20	0.16	0.34
GBJYWG	*	50.60	1.08	2.01	47.70	-0.34	-0.71
GMFXUE		49.80	0.28	0.52	48.20	0.16	0.34
JEQ93F		49.51	-0.01	-0.02	47.98	-0.06	-0.12
JJMR4E		50.00	0.48	0.89	48.40	0.36	0.75
JLQNP3		49.00	-0.52	-0.97	47.50	-0.54	-1.12
KAVPJH		48.80	-0.72	-1.35	48.30	0.26	0.54
KMWRFW		50.00	0.48	0.89	48.40	0.36	0.75
KVU36A		49.20	-0.32	-0.60	47.80	-0.24	-0.50
LCKF89	X	43.80	-5.72	-10.69	45.40	-2.64	-5.50
MD6TZB		49.30	-0.22	-0.41	47.80	-0.24	-0.50
MJ9V6B		49.80	0.28	0.52	48.20	0.16	0.34
NEW9PC		49.30	-0.22	-0.41	47.80	-0.24	-0.50
NKXKLA		48.90	-0.62	-1.16	48.30	0.26	0.54
NZX8CB	*	50.40	0.88	1.64	47.50	-0.54	-1.12
P23ETA		50.20	0.68	1.27	48.20	0.16	0.34
R82JXX		49.30	-0.22	-0.41	48.00	-0.04	-0.08
RMFLG8		50.00	0.48	0.89	48.70	0.66	1.38
RXCRB7		49.90	0.38	0.71	48.40	0.36	0.75
T7QXM3		49.75	0.23	0.42	48.30	0.26	0.54
TP2QP6		49.60	0.08	0.15	48.20	0.16	0.34

WebCode	Data Flag	Sample R69 Lab Mean	Sample R69 Diff. from Grand Mean	Sample R69 CPV	Sample R70 Lab Mean	Sample R70 Diff. from Grand Mean	Sample R70 CPV
U26QHZ		49.10	-0.42	-0.79	47.60	-0.44	-0.91
ULWKM6		48.70	-0.82	-1.53	47.50	-0.54	-1.12
UXRLB7		49.50	-0.02	-0.04	48.40	0.36	0.75
V9MGGZ		49.69	0.17	0.31	47.53	-0.51	-1.06
VWVTQ8		49.86	0.34	0.63	49.11	1.07	2.23
WFJFP2		49.52	0.00	-0.01	47.93	-0.11	-0.22
X3483Z		48.60	-0.92	-1.72	47.30	-0.74	-1.54
XDR442		49.85	0.33	0.61	48.18	0.14	0.29
YKNY2Y		50.10	0.58	1.08	48.60	0.56	1.17
Z68MLB		49.40	-0.12	-0.23	47.60	-0.44	-0.91

Summary Statistics

	Sample R69		Sample R70	
Grand Means	49.52	ksi	48.04	ksi
Stnd Dev Btwn Labs	0.54	ksi	0.48	ksi

Samples R69, R70 : 14G 6061-T6 (A), 12G 6061-T6 (B)

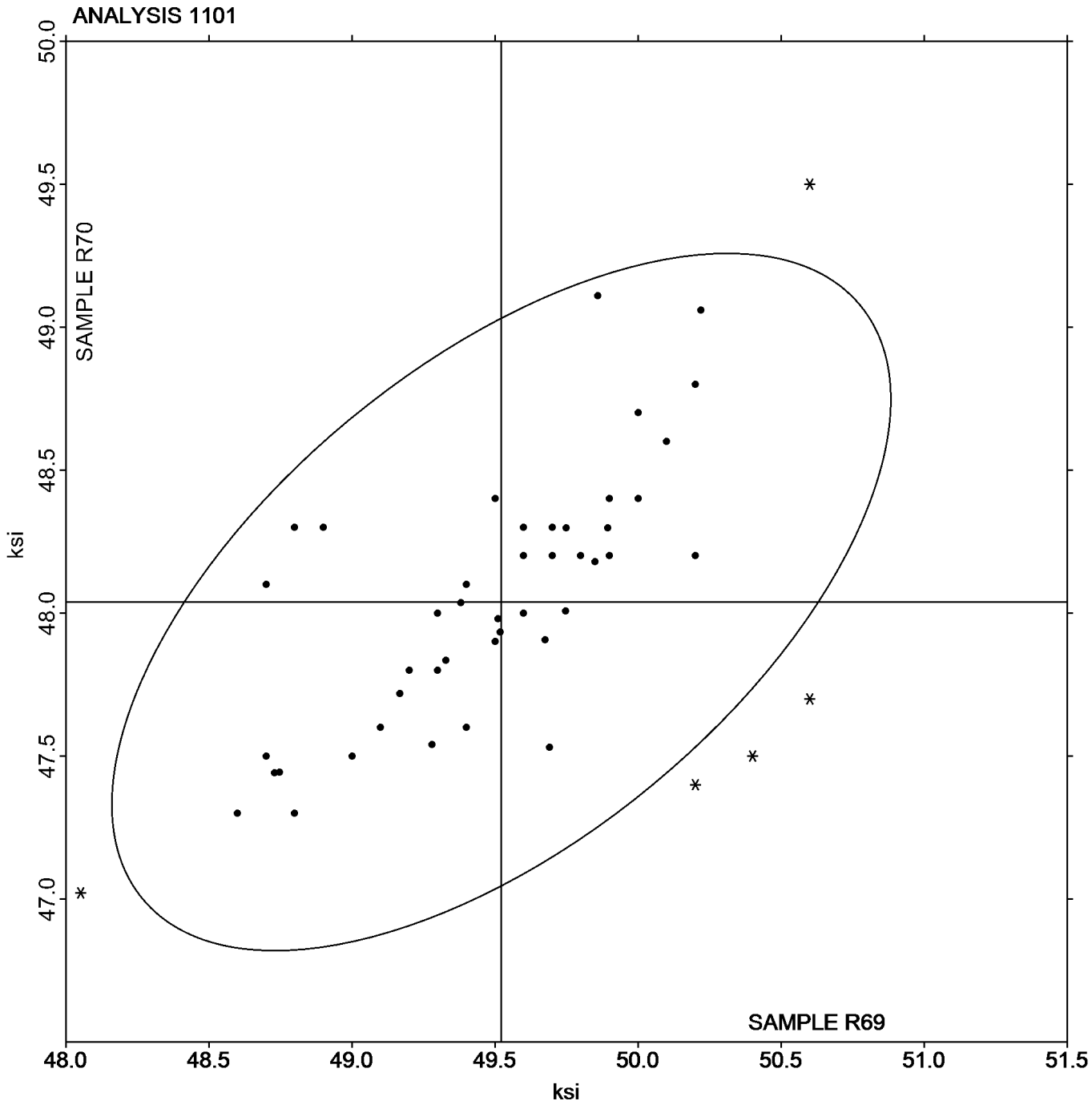
Statistics based on 55 of 57 reporting participants

Comments on Assigned Data Flags for Test #1101

FVAVVV (X) - Data for sample R70 are high.

LCKF89 (X) - Data for both samples are low.

SAMPLE R69	SAMPLE R70
49.52 ksi	48.04 ksi



		Sample R69			Sample R70		
WebCode	Data Flag	Lab Mean	Diff. from Grand Mean	CPV	Lab Mean	Diff. from Grand Mean	CPV
2HPUX3		41.50	0.05	0.08	40.60	0.08	0.15
2KJ9VT		40.25	-1.21	-2.01	39.93	-0.59	-1.12
47M9QU		42.00	0.55	0.91	40.70	0.18	0.34
4CCTUA		41.70	0.25	0.41	41.00	0.48	0.91
642Q7N		42.20	0.75	1.25	41.60	1.08	2.05
66RPM8		41.19	-0.26	-0.44	40.61	0.09	0.17
676LRC		41.70	0.25	0.41	41.10	0.58	1.10
6NKVQR		41.70	0.25	0.41	40.35	-0.17	-0.33
79RF7R		41.70	0.25	0.41	40.90	0.38	0.72
7DHUQT		41.90	0.45	0.75	39.80	-0.72	-1.37
84CCTV		41.80	0.35	0.58	41.20	0.68	1.29
8YFNCN		42.21	0.75	1.26	41.05	0.52	0.99
9UL26L		40.60	-0.85	-1.42	40.60	0.08	0.15
AMZBAD		40.45	-1.00	-1.67	39.89	-0.64	-1.21
BBJZ6K		41.20	-0.25	-0.42	40.90	0.38	0.72
BP4HXN		41.70	0.25	0.41	40.70	0.18	0.34
CCQRMY		41.70	0.25	0.41	40.60	0.08	0.15
CMBYLN	*	40.61	-0.84	-1.41	39.16	-1.36	-2.58
CNXXFD		42.40	0.95	1.58	41.70	1.18	2.24
DKGRGH	*	42.03	0.58	0.96	39.43	-1.09	-2.07
EAC2CL		41.43	-0.02	-0.04	40.52	0.00	0.00
F3CVGJ		40.50	-0.95	-1.59	40.00	-0.52	-0.99
F4MUDD		41.80	0.35	0.58	41.20	0.68	1.29
FFVMWD		41.03	-0.42	-0.70	40.41	-0.11	-0.22
FZJB6K		40.58	-0.87	-1.46	40.15	-0.37	-0.71
G4X7KG		41.90	0.45	0.75	40.80	0.28	0.53
GBJYWG	*	42.70	1.25	2.08	40.20	-0.32	-0.61
GMFXUE		41.60	0.15	0.24	40.70	0.18	0.34
JEQ93F		41.42	-0.03	-0.06	40.59	0.07	0.13
JJMR4E		41.80	0.35	0.58	40.80	0.28	0.53
JLQNP3		41.10	-0.35	-0.59	40.30	-0.22	-0.42
KAVPJH		40.80	-0.65	-1.09	40.90	0.38	0.72
KMWRFW		41.00	-0.45	-0.76	39.80	-0.72	-1.37
KVU36A		41.40	-0.05	-0.09	40.60	0.08	0.15
LCKF89	X	35.80	-5.65	-9.44	35.20	-5.32	-10.10
MD6TZB		41.90	0.45	0.75	40.70	0.18	0.34
MJ9V6B		41.00	-0.45	-0.76	40.70	0.18	0.34
NEW9PC		41.40	-0.05	-0.09	40.60	0.08	0.15
NKXKLA		41.40	-0.05	-0.09	41.00	0.48	0.91
NZX8CB	*	42.40	0.95	1.58	40.00	-0.52	-0.99
P23ETA		41.90	0.45	0.75	40.30	-0.22	-0.42
R82JXX		41.20	-0.25	-0.42	40.40	-0.12	-0.23
RMFLG8		42.00	0.55	0.91	40.90	0.38	0.72
RXCRB7		42.00	0.55	0.91	41.00	0.48	0.91
T7QXM3	X	26.54	-14.91	-24.90	21.32	-19.20	-36.44
TP2QP6		41.30	-0.15	-0.26	40.50	-0.02	-0.04
U26QHZ		41.80	0.35	0.58	40.60	0.08	0.15

		Sample R69			Sample R70		
WebCode	Data Flag	Lab Mean	Diff. from Grand Mean	CPV	Lab Mean	Diff. from Grand Mean	CPV
ULWKM6		40.70	-0.75	-1.26	40.40	-0.12	-0.23
UXRLB7		41.40	-0.05	-0.09	41.10	0.58	1.10
V9MGGZ		40.60	-0.85	-1.42	39.20	-1.32	-2.51
VWVTQ8	*	39.92	-1.53	-2.56	39.95	-0.57	-1.08
WFJFP2		41.51	0.06	0.10	40.41	-0.11	-0.21
X3483Z		40.80	-0.65	-1.09	39.80	-0.72	-1.37
XDR442		41.75	0.30	0.50	40.53	0.01	0.02
YKNY2Y		42.10	0.65	1.08	41.00	0.48	0.91
Z68MLB		41.80	0.35	0.58	40.30	-0.22	-0.42

Summary Statistics

	Sample R69		Sample R70	
Grand Means	41.45	ksi	40.52	ksi
Stnd Dev Btwn Labs	0.60	ksi	0.53	ksi

Samples R69, R70 : 14G 6061-T6 (A), 12G 6061-T6 (B)

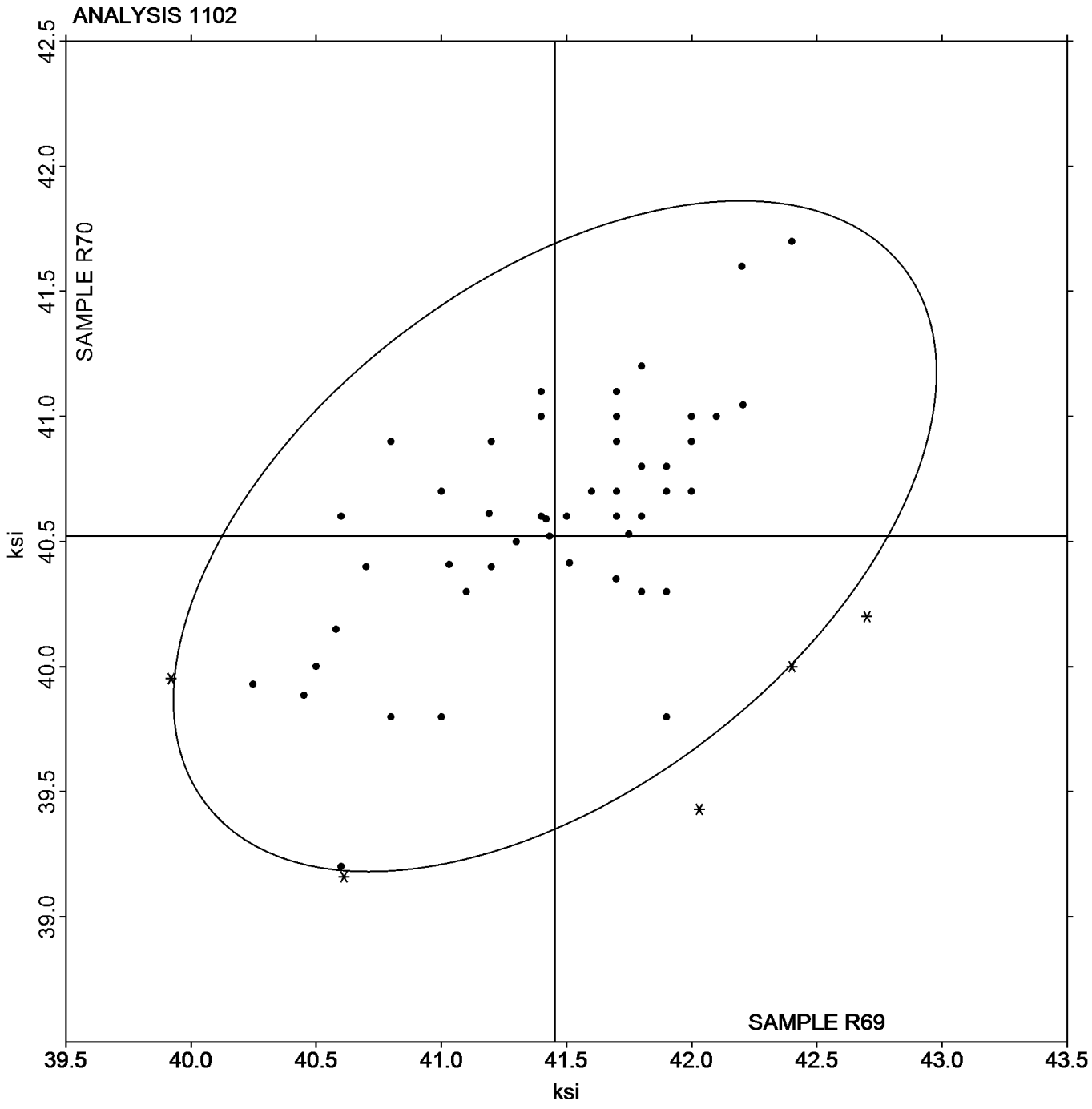
Statistics based on 54 of 56 reporting participants

Comments on Assigned Data Flags for Test #1102

LCKF89 (X) - Data for both samples are low.

T7QXM3 (X) - Data for both samples are low.

SAMPLE R69	SAMPLE R70
41.45 ksi	40.52 ksi



		Sample R69			Sample R70		
WebCode	Data Flag	Lab Mean	Diff. from Grand Mean	CPV	Lab Mean	Diff. from Grand Mean	CPV
2HPUX3		15.20	-0.18	-0.12	15.10	-0.33	-0.22
2KJ9VT		16.60	1.22	0.82	17.30	1.87	1.23
47M9QU	*	11.40	-3.98	-2.68	11.50	-3.93	-2.59
4CCTUA		14.50	-0.88	-0.59	14.30	-1.13	-0.75
642Q7N		16.00	0.62	0.42	15.60	0.17	0.11
66RPM8		15.60	0.22	0.15	15.80	0.37	0.24
676LRC		14.00	-1.38	-0.93	14.50	-0.93	-0.62
6NKVQR		16.90	1.52	1.03	16.65	1.22	0.80
79RF7R		16.70	1.32	0.89	16.90	1.47	0.97
7DHUQT		15.50	0.12	0.08	15.50	0.07	0.04
84CCTV	*	11.20	-4.18	-2.81	11.60	-3.83	-2.53
8YFNCN	*	11.00	-4.38	-2.94	10.70	-4.73	-3.12
9UL26L	X	11.90	-3.48	-2.34	14.40	-1.03	-0.68
AMZBAD		15.80	0.42	0.28	15.90	0.47	0.31
BBJZ6K		14.50	-0.88	-0.59	13.50	-1.93	-1.27
BP4HXN		16.30	0.92	0.62	16.60	1.17	0.77
CCQRMY		15.90	0.52	0.35	16.00	0.57	0.37
CMBYLN		15.50	0.12	0.08	16.20	0.77	0.50
CNXXFD	*	15.00	-0.38	-0.25	16.50	1.07	0.70
DKGRGH	*	17.70	2.32	1.56	16.50	1.07	0.70
EAC2CL		16.00	0.62	0.42	16.00	0.57	0.37
F3CVGJ		15.00	-0.38	-0.25	15.00	-0.43	-0.29
F4MUDD	X	14.60	-0.78	-0.52	16.60	1.17	0.77
FFVMWD		15.30	-0.08	-0.05	15.50	0.07	0.04
FZJB6K		17.58	2.20	1.48	18.04	2.61	1.72
G4X7KG		14.50	-0.88	-0.59	14.50	-0.93	-0.62
GBJYWG		16.50	1.12	0.76	16.50	1.07	0.70
GMFXUE		15.50	0.12	0.08	15.50	0.07	0.04
JEQ93F		14.90	-0.48	-0.32	15.00	-0.43	-0.29
JJMR4E		14.00	-1.38	-0.93	14.00	-1.43	-0.94
JLQNP3		14.90	-0.48	-0.32	14.90	-0.53	-0.35
KAVPJH		17.00	1.62	1.09	17.00	1.57	1.03
KMWRFW		14.50	-0.88	-0.59	14.00	-1.43	-0.94
KVU36A		15.80	0.42	0.28	16.00	0.57	0.37
LCKF89		15.80	0.42	0.28	15.20	-0.23	-0.15
MD6TZB		14.50	-0.88	-0.59	14.50	-0.93	-0.62
MJ9V6B		17.20	1.82	1.23	17.20	1.77	1.16
NEW9PC		16.50	1.12	0.76	16.50	1.07	0.70
NKXKLA		14.00	-1.38	-0.93	15.00	-0.43	-0.29
NZX8CB		15.50	0.12	0.08	16.00	0.57	0.37
P23ETA		15.50	0.12	0.08	15.50	0.07	0.04
R82JXX		14.90	-0.48	-0.32	15.60	0.17	0.11
RMFLG8		15.00	-0.38	-0.25	15.50	0.07	0.04
RXCRB7		14.00	-1.38	-0.93	14.00	-1.43	-0.94
T7QXM3	*	20.00	4.62	3.11	20.00	4.57	3.01
TP2QP6		15.50	0.12	0.08	16.00	0.57	0.37
U26QHZ		15.70	0.32	0.22	15.70	0.27	0.18

		Sample R69			Sample R70		
WebCode	Data Flag	Lab Mean	Diff. from Grand Mean	CPV	Lab Mean	Diff. from Grand Mean	CPV
ULWKM6		15.00	-0.38	-0.25	15.00	-0.43	-0.29
UXRLB7		14.00	-1.38	-0.93	14.00	-1.43	-0.94
V9MGGZ	*	15.75	0.37	0.25	14.15	-1.28	-0.85
VWVTQ8		15.60	0.22	0.15	16.60	1.17	0.77
WFJFP2		16.20	0.82	0.55	15.40	-0.03	-0.02
X3483Z		15.50	0.12	0.08	15.50	0.07	0.04
XDR442		15.70	0.32	0.22	15.80	0.37	0.24
YKNY2Y		15.50	0.12	0.08	16.00	0.57	0.37
Z68MLB		16.20	0.82	0.55	15.70	0.27	0.18

Summary Statistics

	Sample R69		Sample R70	
Grand Means	15.38	Percent	15.43	Percent
Stnd Dev Btwn Labs	1.49	Percent	1.52	Percent

Samples R69, R70 : 14G 6061-T6 (A), 12G 6061-T6 (B)

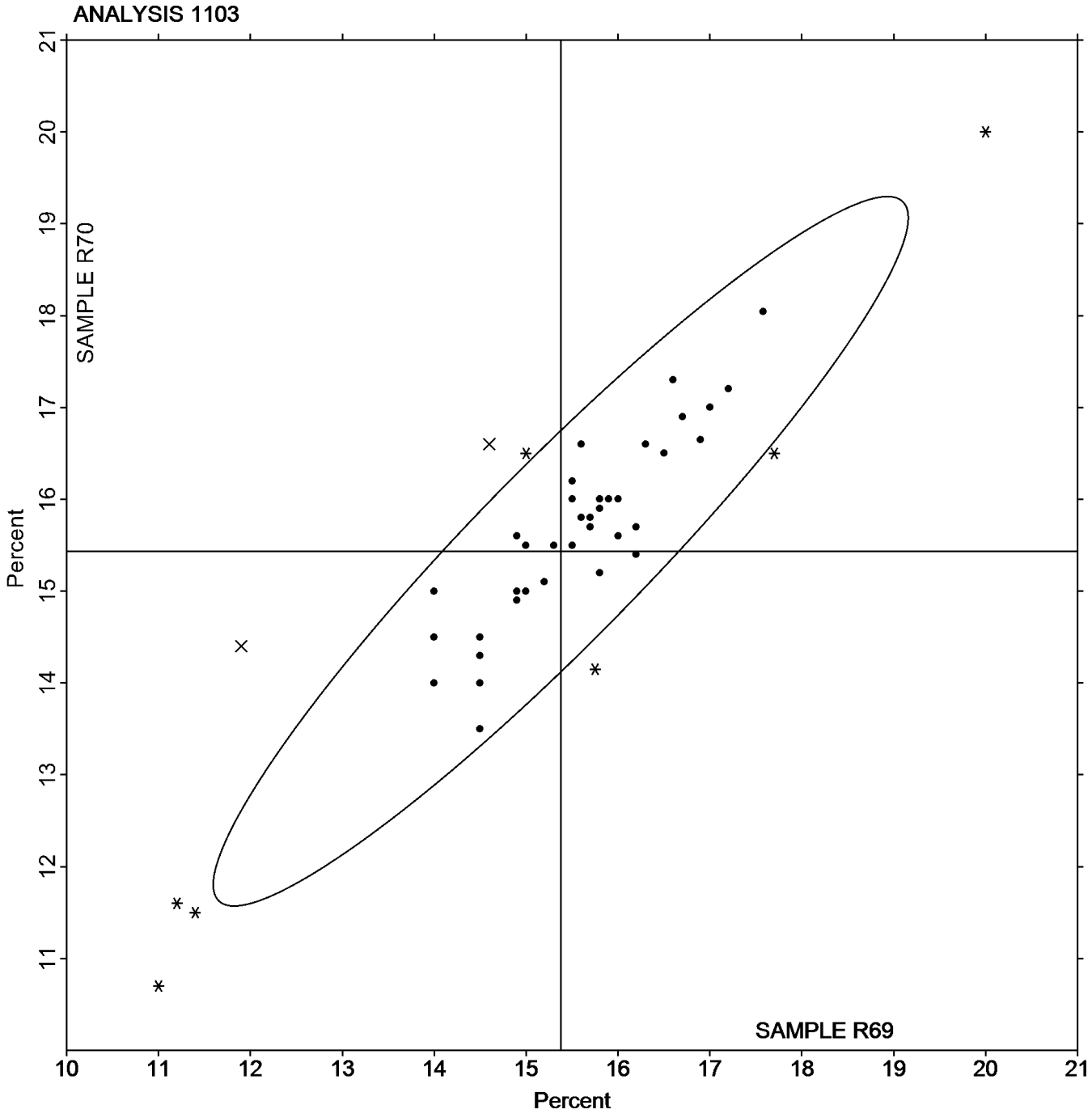
Statistics based on 54 of 56 reporting participants

Comments on Assigned Data Flags for Test #1103

9UL26L (X) - Inconsistent in testing between samples.

F4MUDD (X) - Inconsistent in testing between samples.

SAMPLE R69	SAMPLE R70
15.38 Percent	15.43 Percent



		Sample A69			Sample A70		
WebCode	Data Flag	Lab Mean	Diff. from Grand Mean	CPV	Lab Mean	Diff. from Grand Mean	CPV
2HPUX3		153.30	0.40	0.31	149.60	1.64	1.32
3FECCB		152.81	-0.08	-0.07	148.98	1.03	0.83
3H7BQA		150.72	-2.18	-1.68	145.92	-2.04	-1.64
4ZK2A7		154.61	1.71	1.32	149.10	1.14	0.92
676LRC		154.00	1.10	0.85	148.00	0.04	0.03
6V34EN		153.83	0.93	0.72	147.47	-0.49	-0.39
7LXD97		150.80	-2.10	-1.62	146.30	-1.66	-1.33
8Q4NHC		152.61	-0.29	-0.22	146.78	-1.18	-0.95
93BRKL		152.90	0.00	0.00	150.30	2.34	1.88
9E6BX7		154.32	1.42	1.10	149.22	1.27	1.02
9QK6BK		153.00	0.10	0.08	147.20	-0.76	-0.61
9WPWNN		152.00	-0.90	-0.69	148.00	0.04	0.03
AL7MVN	X	158.09	5.19	4.01	153.16	5.20	4.18
AV7GMR		151.95	-0.94	-0.73	148.77	0.81	0.65
AY7PR3		150.38	-2.52	-1.94	146.23	-1.73	-1.39
B372M3		151.25	-1.65	-1.27	146.97	-0.99	-0.79
BBGFA4		155.34	2.44	1.88	149.39	1.43	1.15
BK66DJ		152.83	-0.07	-0.05	145.51	-2.45	-1.97
CEUM73		152.00	-0.90	-0.69	149.00	1.04	0.84
CGY9X9		153.89	0.99	0.76	147.94	-0.02	-0.01
CTVAJP		155.20	2.30	1.78	149.40	1.44	1.16
DGHB7A		152.10	-0.80	-0.62	146.50	-1.46	-1.17
DJJEVB		153.66	0.76	0.59	147.49	-0.46	-0.37
DKGRGH		153.91	1.01	0.78	148.87	0.91	0.73
EJH4EX		153.20	0.30	0.23	147.80	-0.16	-0.13
FCCRW7		153.30	0.40	0.31	147.08	-0.88	-0.71
FEZ4VC		155.20	2.30	1.78	150.80	2.84	2.29
G4JUQJ		153.00	0.10	0.08	148.00	0.04	0.03
G6BQFC		153.45	0.55	0.43	147.74	-0.22	-0.18
GV7QXY		154.80	1.90	1.47	149.20	1.24	1.00
HJ86DK		152.98	0.08	0.06	146.99	-0.97	-0.78
HRF2TC		152.45	-0.45	-0.35	148.75	0.79	0.64
HWUJ98	X	162.03	9.13	7.05	149.23	1.27	1.02
J3CBVR		151.71	-1.19	-0.92	146.69	-1.27	-1.02
JTDDAC		151.10	-1.80	-1.39	146.40	-1.56	-1.25
KJMALA		153.12	0.22	0.17	149.30	1.34	1.08
KMWRFW		154.00	1.10	0.85	147.00	-0.96	-0.77
KNQHJP		152.03	-0.87	-0.67	147.16	-0.80	-0.64
KRDXC7		152.20	-0.70	-0.54	146.80	-1.16	-0.93
L9GU7P		150.76	-2.14	-1.65	146.11	-1.85	-1.49
LHLYY7		152.30	-0.60	-0.46	147.90	-0.06	-0.05
P93RQR		155.00	2.10	1.62	149.00	1.04	0.84
QFDFZJ		151.30	-1.60	-1.23	147.15	-0.81	-0.65
RA9VEZ		152.30	-0.60	-0.46	147.90	-0.06	-0.05
RE2Z7H		153.00	0.10	0.08	147.90	-0.06	-0.05
T8Z3ZR		152.15	-0.75	-0.58	146.49	-1.47	-1.18
TJQYXJ		152.90	0.00	0.00	147.30	-0.66	-0.53

		Sample A69			Sample A70		
WebCode	Data Flag	Lab Mean	Diff. from Grand Mean	CPV	Lab Mean	Diff. from Grand Mean	CPV
TTEQNH		155.15	2.25	1.74	148.29	0.33	0.27
UN4W8R		153.89	0.99	0.76	147.50	-0.45	-0.36
UPDZ23		153.15	0.25	0.19	146.98	-0.97	-0.78
V2L3Z7		155.89	2.99	2.31	149.36	1.40	1.13
VKXX6X		151.80	-1.10	-0.85	148.50	0.54	0.44
VUYGLR	X	149.36	-3.54	-2.73	152.99	5.03	4.04
X2H7J7	*	151.09	-1.81	-1.40	149.42	1.46	1.18
XG98EC		152.40	-0.50	-0.38	150.20	2.24	1.80
XMCAZ6		152.00	-0.90	-0.69	148.00	0.04	0.03
XP64ZU		151.55	-1.35	-1.04	146.78	-1.18	-0.95
YXEVZC		151.50	-1.40	-1.08	146.78	-1.18	-0.95
ZC78RC		153.10	0.20	0.16	147.50	-0.46	-0.37
ZF7FWM		152.40	-0.50	-0.38	150.20	2.24	1.80
ZM9KVX		153.90	1.00	0.77	148.30	0.34	0.28
ZNMREU		152.50	-0.40	-0.31	149.80	1.84	1.48
ZRKBCL		153.90	1.00	0.78	147.41	-0.55	-0.44

Summary Statistics

	Sample A69		Sample A70	
Grand Means	152.90	ksi	147.96	ksi
Stnd Dev Btwn Labs	1.30	ksi	1.24	ksi

Samples A69, A70 : AISI 4340 (L), AISI 4340 (S)

Statistics based on 60 of 63 reporting participants

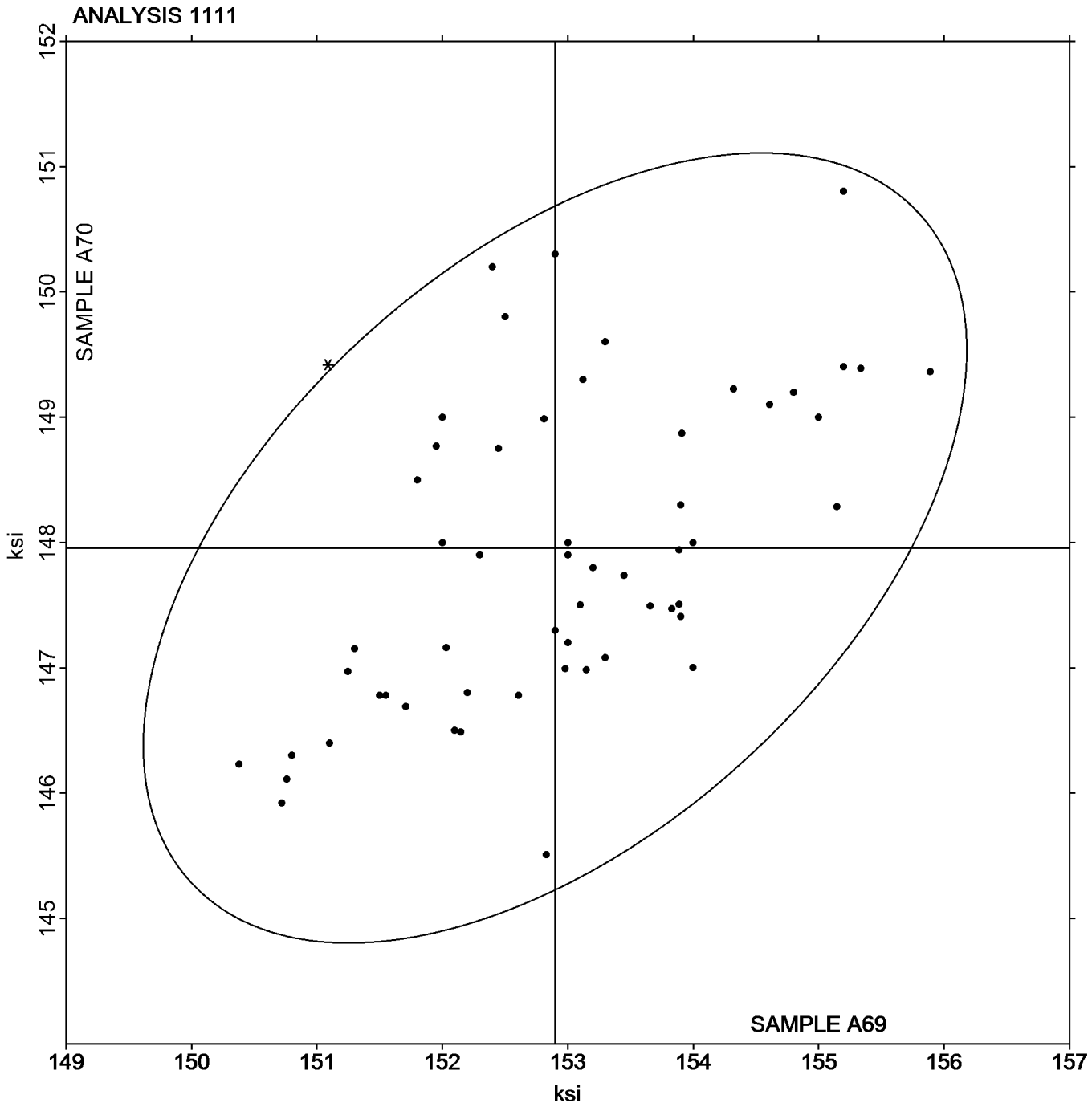
Comments on Assigned Data Flags for Test #1111

AL7MVN (X) - Data for both samples are high.

HWUJ98 (X) - Data for sample A69 are high.

VUYGLR (X) - Data appear to be transposed between samples.

SAMPLE A69	SAMPLE A70
152.90 ksi	147.96 ksi



		Sample A69			Sample A70		
WebCode	Data Flag	Lab Mean	Diff. from Grand Mean	CPV	Lab Mean	Diff. from Grand Mean	CPV
2HPUX3		127.30	-1.64	-0.91	121.20	-0.22	-0.13
3FECCB		130.10	1.16	0.64	123.76	2.34	1.42
3H7BQA		126.07	-2.87	-1.59	119.06	-2.36	-1.43
4ZK2A7		131.26	2.32	1.28	122.85	1.43	0.86
676LRC		131.00	2.06	1.14	121.00	-0.42	-0.25
6V34EN		129.86	0.92	0.51	121.15	-0.27	-0.16
7LXD97		126.80	-2.14	-1.19	120.00	-1.42	-0.86
8Q4NHC		129.11	0.17	0.09	120.82	-0.60	-0.37
93BRKL		128.60	-0.34	-0.19	123.50	2.08	1.26
9E6BX7		131.06	2.11	1.17	121.87	0.45	0.27
9QK6BK		129.20	0.26	0.14	121.20	-0.22	-0.13
9WPWNN		129.00	0.06	0.03	120.00	-1.42	-0.86
AL7MVN	X	140.54	11.60	6.42	135.47	14.05	8.50
AV7GMR		127.84	-1.10	-0.61	121.93	0.51	0.31
AY7PR3		125.52	-3.42	-1.89	119.52	-1.90	-1.15
B372M3		127.00	-1.94	-1.08	120.34	-1.08	-0.65
BBGFA4		131.55	2.61	1.44	122.85	1.43	0.86
BK66DJ		129.26	0.32	0.18	118.85	-2.57	-1.56
CEUM73		128.40	-0.54	-0.30	123.50	2.08	1.26
CGY9X9		128.94	0.00	0.00	120.67	-0.75	-0.45
CTVAJP		132.40	3.46	1.91	123.70	2.28	1.38
DGHB7A		128.00	-0.94	-0.52	120.00	-1.42	-0.86
DJJEVB		129.46	0.52	0.29	120.58	-0.84	-0.51
DKGRGH		128.85	-0.09	-0.05	123.00	1.58	0.96
EJH4EX		129.10	0.16	0.09	121.10	-0.32	-0.19
FCCRW7		129.12	0.18	0.10	120.29	-1.13	-0.69
FEZ4VC		130.80	1.86	1.03	123.10	1.68	1.02
G4JUQJ		130.00	1.06	0.58	122.00	0.58	0.35
G6BQFC		127.20	-1.74	-0.97	119.70	-1.72	-1.04
GV7QXY		131.70	2.76	1.53	122.00	0.58	0.35
HJ86DK	*	123.91	-5.03	-2.79	119.01	-2.41	-1.46
HRF2TC		129.10	0.16	0.09	124.02	2.60	1.58
HWUJ98		129.50	0.56	0.31	122.60	1.18	0.71
J3CBVR		127.99	-0.95	-0.53	119.36	-2.06	-1.25
JTDDAC		127.50	-1.44	-0.80	120.90	-0.52	-0.32
KJMALA		128.55	-0.39	-0.22	122.08	0.66	0.40
KMWRFW		131.00	2.06	1.14	120.00	-1.42	-0.86
KNQHJP		127.81	-1.13	-0.63	119.94	-1.48	-0.90
KRDXC7		129.20	0.26	0.14	121.40	-0.02	-0.01
L9GU7P		126.96	-1.98	-1.10	119.33	-2.09	-1.27
LHLYY7		127.60	-1.34	-0.74	121.10	-0.32	-0.19
P93RQR		132.00	3.06	1.69	122.00	0.58	0.35
QFDFZJ		127.96	-0.98	-0.54	120.19	-1.23	-0.75
RA9VEZ		127.30	-1.64	-0.91	120.80	-0.62	-0.38
RE2Z7H		129.10	0.16	0.09	119.70	-1.72	-1.04
T8Z3ZR		129.66	0.72	0.40	118.79	-2.63	-1.59
TJQYXJ	*	127.90	-1.04	-0.58	125.20	3.78	2.29

		Sample A69			Sample A70		
WebCode	Data Flag	Lab Mean	Diff. from Grand Mean	CPV	Lab Mean	Diff. from Grand Mean	CPV
TTEQNH		132.48	3.53	1.96	121.31	-0.11	-0.07
UN4W8R		127.92	-1.02	-0.56	120.09	-1.33	-0.80
UPDZ23		132.27	3.32	1.84	122.63	1.21	0.73
V2L3Z7		131.57	2.63	1.45	123.03	1.61	0.97
VKXX6X		128.40	-0.54	-0.30	122.90	1.48	0.90
VUYGLR	X	118.57	-10.37	-5.75	127.29	5.87	3.55
X2H7J7		125.30	-3.64	-2.02	120.56	-0.86	-0.52
XG98EC	*	128.90	-0.04	-0.02	125.30	3.88	2.35
XMCAZ6		128.00	-0.94	-0.52	121.00	-0.42	-0.25
XP64ZU	X	66.72	-62.23	-34.46	60.34	-61.08	-36.98
YXEVZC		127.83	-1.11	-0.62	120.44	-0.98	-0.59
ZC78RC		130.20	1.26	0.70	121.60	0.18	0.11
ZF7FWM		129.70	0.76	0.42	125.40	3.98	2.41
ZM9KVX	X	131.00	2.06	1.14	131.60	10.18	6.16
ZNMREU		128.20	-0.74	-0.41	123.20	1.78	1.08
ZRKBCL		129.37	0.43	0.24	120.43	-0.99	-0.60

Summary Statistics

	Sample A69		Sample A70	
Grand Means	128.94	ksi	121.42	ksi
Stnd Dev Btwn Labs	1.81	ksi	1.65	ksi

Samples A69, A70 : AISI 4340 (L), AISI 4340 (S)

Statistics based on 59 of 63 reporting participants

Comments on Assigned Data Flags for Test #1112

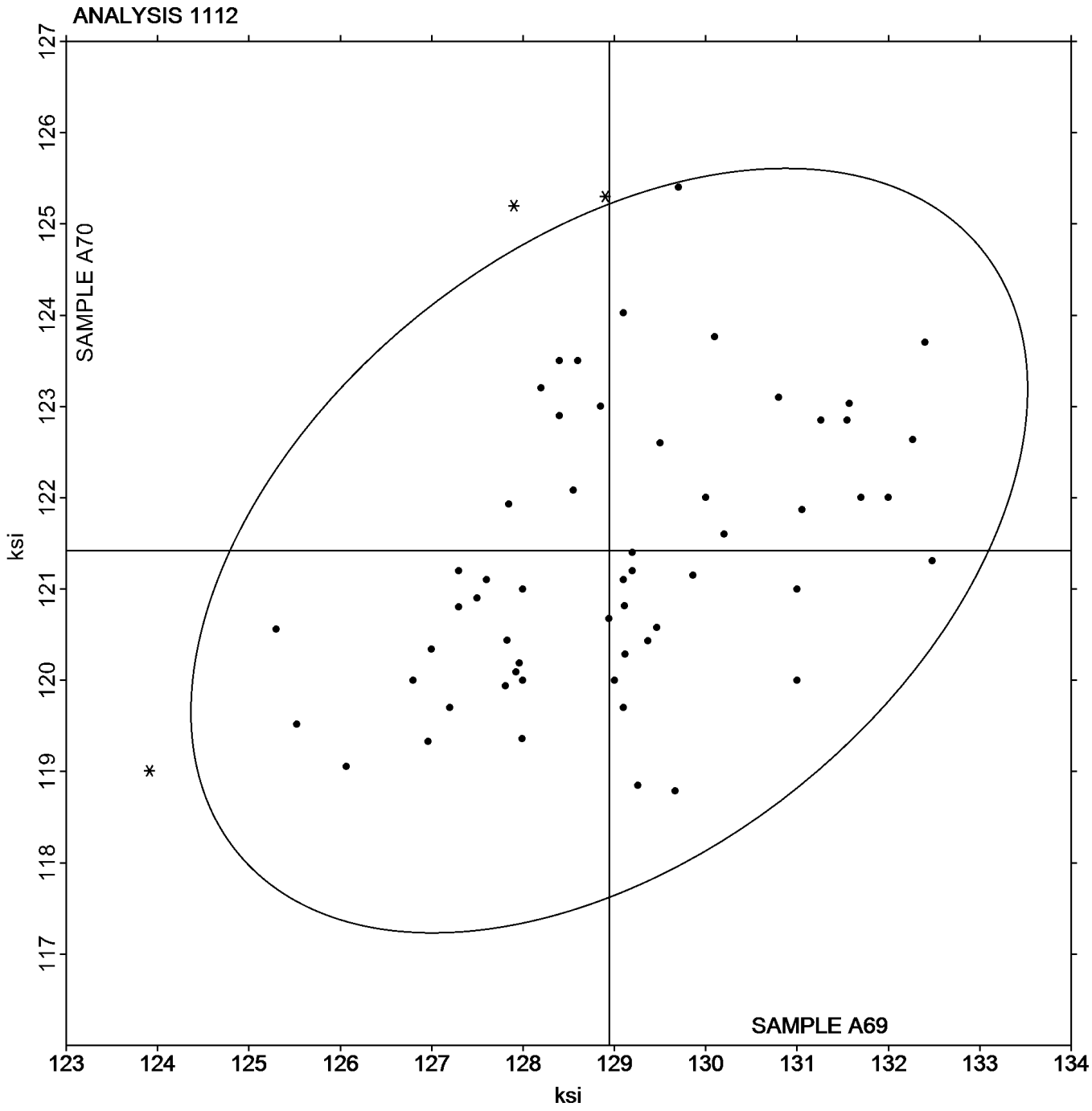
AL7MVN (X) - Data for both samples are high.

VUYGLR (X) - Data appear to be transposed between samples.

XP64ZU (X) - Data for both samples are extremely low.

ZM9KVX (X) - Data for sample A70 are high.

SAMPLE A69	SAMPLE A70
128.94 ksi	121.42 ksi



		Sample A69			Sample A70		
WebCode	Data Flag	Lab Mean	Diff. from Grand Mean	CPV	Lab Mean	Diff. from Grand Mean	CPV
2HPUX3	*	17.40	0.40	0.44	15.60	-1.72	-1.96
3FECCB		18.40	1.40	1.57	18.30	0.98	1.12
3H7BQA		16.86	-0.14	-0.16	17.55	0.23	0.26
4ZK2A7		17.10	0.10	0.11	18.90	1.58	1.80
676LRC		15.00	-2.00	-2.25	16.00	-1.32	-1.51
6V34EN		17.00	0.00	0.00	18.00	0.68	0.78
7LXD97		17.60	0.60	0.67	16.00	-1.32	-1.51
8Q4NHC		17.40	0.40	0.44	18.00	0.68	0.78
93BRKL		15.64	-1.36	-1.53	15.74	-1.58	-1.80
9E6BX7		17.35	0.35	0.39	16.75	-0.57	-0.65
9QK6BK		17.20	0.20	0.22	18.00	0.68	0.78
9WPWNN		16.00	-1.00	-1.13	17.00	-0.32	-0.37
AL7MVN		17.00	0.00	0.00	18.00	0.68	0.78
AV7GMR		17.26	0.26	0.29	17.06	-0.26	-0.30
AY7PR3		17.99	0.99	1.11	17.46	0.14	0.16
B372M3		16.87	-0.13	-0.15	17.42	0.10	0.11
BBGFA4		15.60	-1.40	-1.57	15.90	-1.42	-1.62
BK66DJ		17.40	0.40	0.44	18.20	0.88	1.00
CEUM73		16.65	-0.35	-0.40	17.00	-0.32	-0.37
CGY9X9		16.30	-0.70	-0.79	17.70	0.38	0.43
CTVAJP		17.50	0.50	0.56	17.80	0.48	0.55
DGHB7A	*	15.20	-1.80	-2.02	17.80	0.48	0.55
DJJEVB		16.20	-0.80	-0.90	18.10	0.78	0.89
DKGRGH		17.00	0.00	0.00	18.00	0.68	0.78
EJH4EX		17.10	0.10	0.11	17.60	0.28	0.32
FCCRW7		17.00	0.00	0.00	17.00	-0.32	-0.37
FEZ4VC		15.50	-1.50	-1.69	15.20	-2.12	-2.42
G4JUQJ		18.00	1.00	1.12	17.00	-0.32	-0.37
G6BQFC		17.04	0.04	0.04	16.92	-0.40	-0.46
GV7QXY		15.80	-1.20	-1.35	16.60	-0.72	-0.82
HJ86DK		17.70	0.70	0.78	17.10	-0.22	-0.25
HRF2TC		17.20	0.20	0.22	17.70	0.38	0.43
HWUJ98	X	12.60	-4.40	-4.94	16.50	-0.82	-0.94
J3CBVR		17.83	0.83	0.93	17.92	0.60	0.69
JTDDAC		17.20	0.20	0.22	18.30	0.98	1.12
KJMALA		17.20	0.20	0.22	17.75	0.43	0.49
KMWRFW		16.00	-1.00	-1.13	16.00	-1.32	-1.51
KNQHJP		17.87	0.87	0.97	17.28	-0.04	-0.05
KRDXC7		16.90	-0.10	-0.12	17.90	0.58	0.66
L9GU7P		18.00	1.00	1.12	18.24	0.92	1.05
LHLYY7		17.70	0.70	0.78	17.70	0.38	0.43
P93RQR		17.00	0.00	0.00	17.00	-0.32	-0.37
QFDFZJ		18.19	1.19	1.33	18.27	0.95	1.08
RA9VEZ		17.00	0.00	0.00	18.00	0.68	0.78
RE2Z7H		16.80	-0.20	-0.23	16.50	-0.82	-0.94
T8Z3ZR		17.10	0.10	0.11	18.80	1.48	1.69
TJQYXJ		15.30	-1.70	-1.91	16.00	-1.32	-1.51

Fasteners and Metals Interlaboratory Testing Program

Analysis 1113

Elongation: Pre-Machined Round Steel
ASTM E8

WebCode	Data Flag	Sample A69 Lab Mean	Sample A69 Diff. from Grand Mean	Sample A69 CPV	Sample A70 Lab Mean	Sample A70 Diff. from Grand Mean	Sample A70 CPV
TTEQNH		17.30	0.30	0.33	17.20	-0.12	-0.14
UN4W8R		16.90	-0.10	-0.12	17.10	-0.22	-0.25
UPDZ23		17.66	0.66	0.74	17.80	0.48	0.55
V2L3Z7		16.70	-0.30	-0.34	17.10	-0.22	-0.25
VKXX6X		16.70	-0.30	-0.34	17.00	-0.32	-0.37
VUYGLR		18.80	1.80	2.01	17.80	0.48	0.55
X2H7J7		16.50	-0.50	-0.56	16.00	-1.32	-1.51
XG98EC		18.00	1.00	1.12	18.00	0.68	0.78
XMCAZ6		16.00	-1.00	-1.13	16.00	-1.32	-1.51
XP64ZU		16.90	-0.10	-0.12	17.80	0.48	0.55
YXEVZC		18.00	1.00	1.12	18.31	0.99	1.13
ZC78RC	X	18.20	1.20	1.34	20.80	3.48	3.97
ZF7FWM		16.90	-0.10	-0.12	17.00	-0.32	-0.37
ZM9KVX	*	19.60	2.60	2.91	18.60	1.28	1.46
ZNMREU		16.39	-0.61	-0.69	15.79	-1.53	-1.75
ZRKBCL		15.53	-1.47	-1.65	17.96	0.64	0.73

Summary Statistics

	Sample A69		Sample A70	
Grand Means	17.00	Percent	17.32	Percent
Stnd Dev Btwn Labs	0.89	Percent	0.88	Percent

Samples A69, A70 : AISI 4340 (L), AISI 4340 (S)

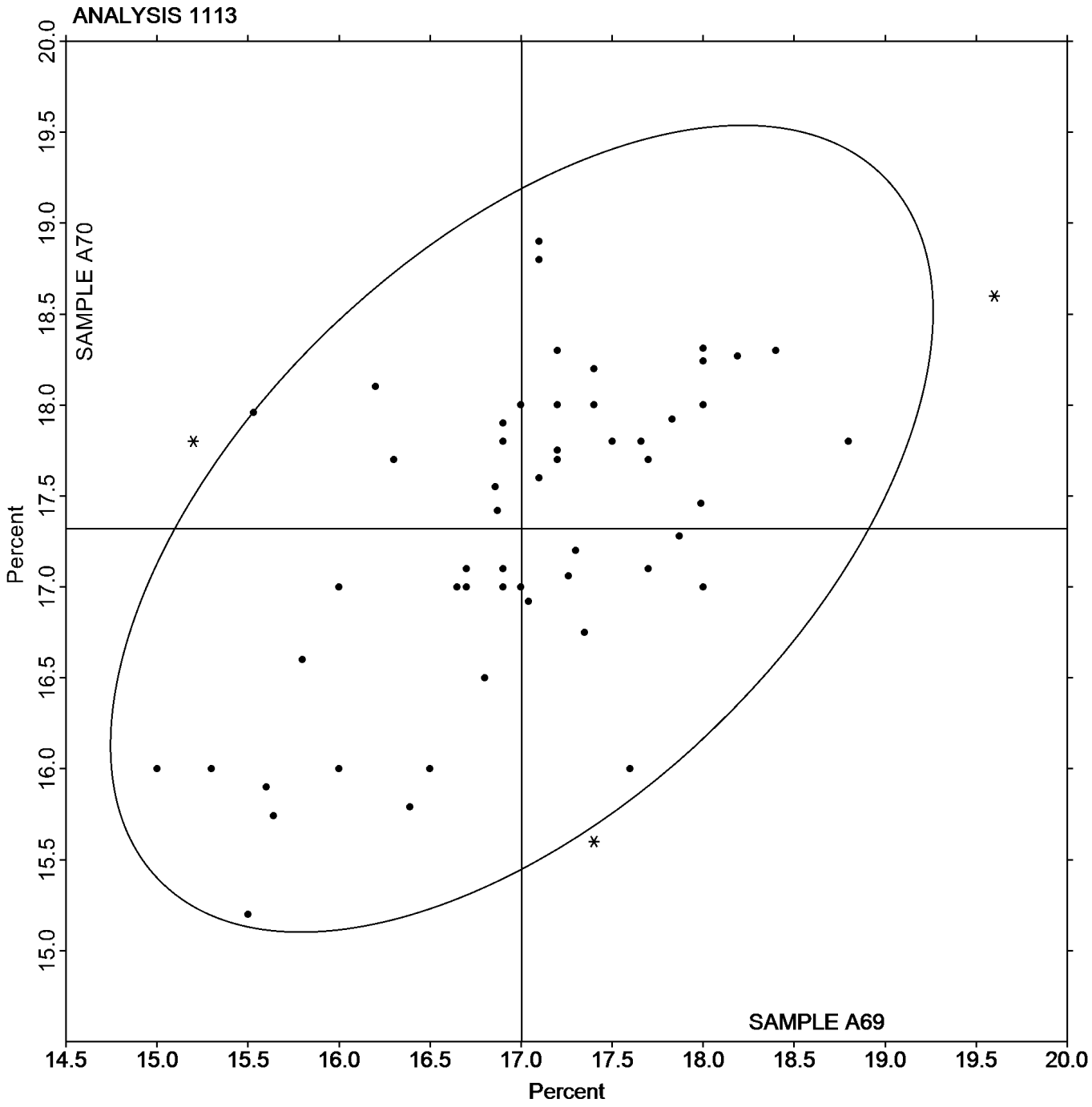
Statistics based on 61 of 63 reporting participants

Comments on Assigned Data Flags for Test #1113

HWUJ98 (X) - Data for sample A69 are low.

ZC78RC (X) - Data for sample A70 are high.

SAMPLE A69	SAMPLE A70
17.00 Percent	17.32 Percent



		Sample A69			Sample A70		
WebCode	Data Flag	Lab Mean	Diff. from Grand Mean	CPV	Lab Mean	Diff. from Grand Mean	CPV
3FECCB		56.00	2.25	0.89	55.50	2.04	0.80
3H7BQA		51.80	-1.95	-0.77	53.50	0.04	0.02
4ZK2A7		52.00	-1.75	-0.69	56.00	2.54	0.99
676LRC		57.00	3.25	1.29	56.00	2.54	0.99
6V34EN		53.00	-0.75	-0.30	54.00	0.54	0.21
7LXD97		54.30	0.55	0.22	50.50	-2.96	-1.15
8Q4NHC		51.80	-1.95	-0.77	56.50	3.04	1.19
93BRKL	*	48.08	-5.67	-2.25	47.58	-5.88	-2.29
9E6BX7		54.24	0.49	0.19	49.21	-4.25	-1.66
9QK6BK		53.00	-0.75	-0.30	54.00	0.54	0.21
9WPWNN		57.00	3.25	1.29	55.00	1.54	0.60
AL7MVN		50.00	-3.75	-1.49	50.00	-3.46	-1.35
AV7GMR		53.65	-0.10	-0.04	50.13	-3.33	-1.30
AY7PR3		55.60	1.85	0.73	53.50	0.04	0.02
B372M3		53.80	0.05	0.02	52.80	-0.66	-0.26
BBGFA4		52.00	-1.75	-0.69	49.00	-4.46	-1.74
BK66DJ		52.80	-0.95	-0.38	54.70	1.24	0.49
CEUM73		57.70	3.95	1.57	58.30	4.84	1.89
CGY9X9		54.00	0.25	0.10	54.90	1.44	0.56
CTVAJP	X	25.90	-27.85	-11.03	54.90	1.44	0.56
DGHB7A	X	47.10	-6.65	-2.63	57.90	4.44	1.73
DJJEVB		52.90	-0.85	-0.34	56.00	2.54	0.99
DKGRGH		51.75	-2.00	-0.79	53.31	-0.15	-0.06
EJH4EX		53.10	-0.65	-0.26	56.20	2.74	1.07
FCCRW7		53.00	-0.75	-0.30	54.00	0.54	0.21
FEZ4VC		50.70	-3.05	-1.21	49.30	-4.16	-1.62
G4JUQJ	*	59.00	5.25	2.08	53.00	-0.46	-0.18
G6BQFC		54.02	0.27	0.11	51.99	-1.47	-0.57
GV7QXY	*	47.10	-6.65	-2.63	48.50	-4.96	-1.93
HJ86DK		56.34	2.59	1.03	54.48	1.02	0.40
HRF2TC		49.70	-4.05	-1.60	51.40	-2.06	-0.80
HWUJ98		56.00	2.25	0.89	56.00	2.54	0.99
J3CBVR		55.10	1.35	0.54	53.50	0.04	0.02
JTDDAC		51.90	-1.85	-0.73	54.30	0.84	0.33
KJMALA		50.07	-3.68	-1.46	54.48	1.02	0.40
KMWRFW		56.00	2.25	0.89	54.00	0.54	0.21
KNQHJP		55.70	1.95	0.77	52.90	-0.56	-0.22
KRDXC7		52.50	-1.25	-0.49	53.70	0.24	0.10
L9GU7P		57.00	3.25	1.29	57.10	3.64	1.42
LHLYY7		55.40	1.65	0.65	54.20	0.74	0.29
P93RQR		54.20	0.45	0.18	52.70	-0.76	-0.29
QFDFZJ		57.80	4.05	1.61	56.30	2.84	1.11
RA9VEZ		54.00	0.25	0.10	55.00	1.54	0.60
RE2Z7H		58.70	4.95	1.96	55.50	2.04	0.80
T8Z3ZR		52.90	-0.85	-0.34	57.20	3.74	1.46
TJQYXJ		51.30	-2.45	-0.97	55.10	1.64	0.64
TTEQNH		56.30	2.55	1.01	53.40	-0.06	-0.02

		Sample A69			Sample A70		
WebCode	Data Flag	Lab Mean	Diff. from Grand Mean	CPV	Lab Mean	Diff. from Grand Mean	CPV
UN4W8R		55.00	1.25	0.50	55.00	1.54	0.60
UPDZ23		55.66	1.91	0.76	54.17	0.71	0.28
V2L3Z7		52.90	-0.85	-0.34	53.00	-0.46	-0.18
VKXX6X		51.00	-2.75	-1.09	48.80	-4.66	-1.82
VUYGLR		53.40	-0.35	-0.14	50.00	-3.46	-1.35
X2H7J7		52.00	-1.75	-0.69	51.50	-1.96	-0.76
XG98EC		55.00	1.25	0.50	56.00	2.54	0.99
XMCAZ6		52.00	-1.75	-0.69	51.00	-2.46	-0.96
XP64ZU	X	31.90	-21.85	-8.66	32.00	-21.46	-8.37
YXEVZC		56.60	2.85	1.13	55.90	2.44	0.95
ZC78RC		52.90	-0.85	-0.34	55.60	2.14	0.84
ZF7FWM		52.80	-0.95	-0.38	52.90	-0.56	-0.22
ZM9KVX		56.40	2.65	1.05	54.00	0.54	0.21
ZNMREU		51.47	-2.28	-0.90	47.87	-5.59	-2.18
ZRKBCL	X	48.64	-5.10	-2.02	57.18	3.73	1.45

Summary Statistics

	Sample A69		Sample A70	
Grand Means	53.75	Percent	53.46	Percent
Stnd Dev Btwn Labs	2.52	Percent	2.56	Percent

Samples A69, A70 : AISI 4340 (L), AISI 4340 (S)

Statistics based on 58 of 62 reporting participants

Comments on Assigned Data Flags for Test #1114

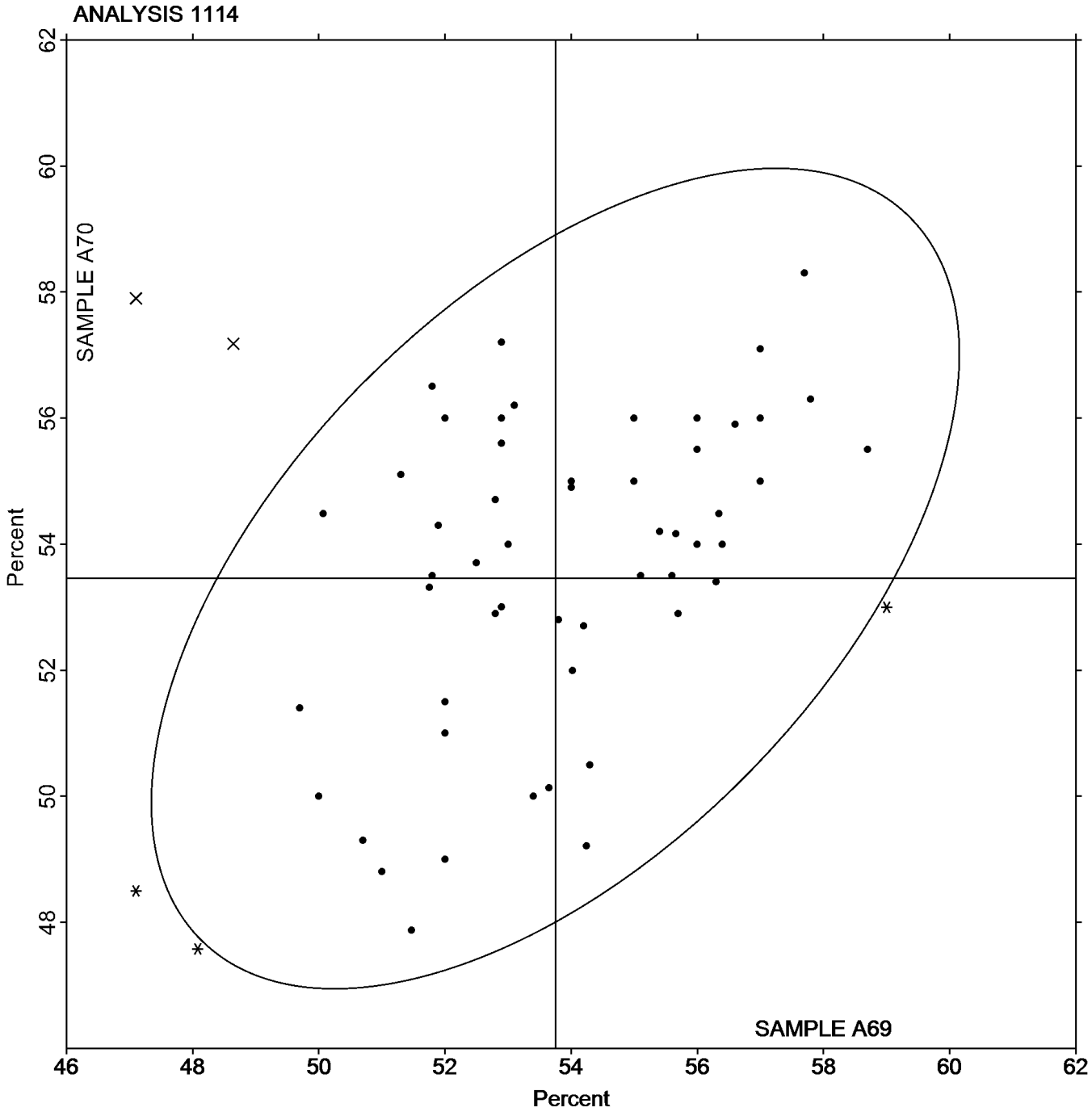
CTVAJP (X) - Data for sample A69 are low.

DGHB7A (X) - Inconsistent in testing between samples.

XP64ZU (X) - Data for both samples are low.

ZRKBCL (X) - Inconsistent in testing between samples.

SAMPLE A69	SAMPLE A70
53.75 Percent	53.46 Percent



		Sample P69			Sample P70		
WebCode	Data Flag	Lab Mean	Diff. from Grand Mean	CPV	Lab Mean	Diff. from Grand Mean	CPV
27VDBL	*	147.80	-0.36	-0.28	155.30	2.88	1.99
2GKXZT		148.60	0.44	0.35	152.10	-0.32	-0.22
2H9FTD		148.87	0.71	0.56	153.35	0.93	0.64
2J6V3P	X	152.30	4.14	3.26	146.70	-5.72	-3.94
2KJ9VT		146.65	-1.51	-1.19	152.29	-0.12	-0.09
2NF49Z		147.94	-0.22	-0.17	152.87	0.46	0.31
39FPLC	X	153.60	5.44	4.29	149.60	-2.82	-1.94
3L3WFR		146.17	-1.99	-1.57	152.10	-0.31	-0.22
3TLX3V	X	154.54	6.38	5.03	147.35	-5.07	-3.50
4434EQ	X	149.50	1.34	1.06	135.70	-16.72	-11.53
4PJJUW		146.20	-1.96	-1.54	150.84	-1.58	-1.09
4R9PBM		147.21	-0.94	-0.74	152.44	0.02	0.01
4RRTNE		148.00	-0.16	-0.12	152.00	-0.42	-0.29
4XEJBA		148.52	0.36	0.29	150.26	-2.16	-1.49
6RLRKT		147.40	-0.76	-0.60	150.10	-2.32	-1.60
6TZ4EQ		147.80	-0.36	-0.28	150.40	-2.02	-1.39
6UA9RF		147.80	-0.36	-0.28	153.20	0.78	0.54
82M4LE		147.30	-0.86	-0.67	153.50	1.08	0.75
83HLMF	X	143.00	-5.16	-4.06	154.00	1.58	1.09
8YWW6N		145.76	-2.39	-1.88	152.29	-0.12	-0.09
8ZRF8P		146.85	-1.31	-1.03	151.99	-0.43	-0.29
9FJHL9		148.40	0.24	0.19	152.90	0.48	0.33
9WPWNN		147.00	-1.16	-0.91	149.00	-3.42	-2.36
A7RJ6M		150.60	2.44	1.92	153.50	1.08	0.75
A8KC3R		148.96	0.80	0.63	151.86	-0.56	-0.39
A9UGFF		149.90	1.74	1.37	154.80	2.38	1.64
BFCA6K		149.20	1.04	0.82	153.70	1.28	0.89
BMVF2Q		149.23	1.07	0.85	155.19	2.78	1.91
BP4HXN		147.90	-0.26	-0.20	151.60	-0.82	-0.56
BPXDE6		146.70	-1.46	-1.15	152.60	0.18	0.13
CJMKXE	M	No Data Reported			153.31	0.89	0.61
DJJEVB	*	149.23	1.07	0.84	156.13	3.71	2.56
DKGRGH		149.11	0.95	0.75	154.53	2.11	1.46
EEQPWH	X	153.31	5.15	4.05	150.84	-1.58	-1.09
EFHXWL		146.92	-1.23	-0.97	152.00	-0.41	-0.29
EQWRAZ		149.42	1.26	0.99	152.70	0.28	0.19
EXW8Y8		148.66	0.51	0.40	153.60	1.18	0.81
F862TZ		148.30	0.14	0.11	153.20	0.78	0.54
F8KKDX	*	149.70	1.54	1.22	150.60	-1.82	-1.25
FCCRW7		148.44	0.28	0.22	154.09	1.67	1.15
GMFXUE		147.60	-0.56	-0.44	151.40	-1.02	-0.70
GV7QXY		148.00	-0.16	-0.12	152.10	-0.32	-0.22
GXVWGA	*	151.38	3.22	2.54	154.16	1.74	1.20
H7YQN8		148.40	0.24	0.19	153.10	0.68	0.47
J8BMTC	X	153.70	5.54	4.36	147.50	-4.92	-3.39
JXMQUW		148.60	0.44	0.35	153.50	1.08	0.75
KAVPJH		147.00	-1.16	-0.91	150.00	-2.42	-1.67

		Sample P69			Sample P70		
WebCode	Data Flag	Lab Mean	Diff. from Grand Mean	CPV	Lab Mean	Diff. from Grand Mean	CPV
LYWBYC	X	167.10	18.94	14.92	169.40	16.98	11.71
M2CEW8		148.38	0.22	0.18	153.63	1.21	0.84
MLG3CA		148.80	0.64	0.51	152.30	-0.12	-0.08
MN6JJW		148.30	0.14	0.11	152.70	0.28	0.20
MVPJYA		147.79	-0.36	-0.28	151.13	-1.29	-0.89
MWHDWE		148.10	-0.05	-0.04	153.29	0.87	0.60
MYL9FG	X	154.41	6.25	4.92	158.87	6.45	4.45
NDG3C9		147.48	-0.68	-0.54	151.10	-1.31	-0.91
NEQYT7		146.84	-1.32	-1.04	151.66	-0.76	-0.52
NEUGXW		148.00	-0.16	-0.12	152.30	-0.12	-0.08
NPC426		147.80	-0.36	-0.28	153.70	1.28	0.89
NQ9JFN		148.71	0.55	0.43	154.08	1.66	1.15
NXLM7M		146.20	-1.96	-1.54	149.60	-2.82	-1.94
P672Q8		148.23	0.07	0.06	152.97	0.56	0.38
P93RQR		149.00	0.84	0.66	151.00	-1.42	-0.98
PRG2Z6		146.70	-1.46	-1.15	150.50	-1.92	-1.32
PT8CNC		147.06	-1.10	-0.87	152.70	0.28	0.19
Q3QBQ2		148.00	-0.16	-0.12	152.00	-0.42	-0.29
QELCD4		148.10	-0.05	-0.04	153.89	1.48	1.02
QM6DY9		147.00	-1.16	-0.91	150.40	-2.02	-1.39
QRWPTJ		148.00	-0.16	-0.12	153.00	0.58	0.40
R2Z4AB		145.92	-2.23	-1.76	150.71	-1.71	-1.18
R4M2H3		147.60	-0.56	-0.44	153.20	0.78	0.54
R6APU3		148.35	0.19	0.15	151.27	-1.14	-0.79
R6D8XT		147.90	-0.26	-0.20	153.30	0.88	0.61
R82JXX		148.00	-0.16	-0.12	152.10	-0.32	-0.22
R8F3HV		146.30	-1.86	-1.46	152.00	-0.42	-0.29
RDBWGH		148.70	0.54	0.43	151.40	-1.02	-0.70
RQTP44		150.28	2.12	1.67	154.68	2.27	1.56
RZKV83	X	142.18	-5.98	-4.71	147.93	-4.49	-3.09
T6AWJ2		149.49	1.33	1.05	152.96	0.55	0.38
U9QJUZ		148.70	0.54	0.43	153.80	1.38	0.95
UAGPAQ		147.40	-0.76	-0.60	152.80	0.38	0.26
UBD86Z		147.18	-0.98	-0.77	152.45	0.04	0.03
UXRLB7		146.60	-1.56	-1.23	151.10	-1.32	-0.91
V2L3Z7		149.19	1.03	0.81	152.92	0.50	0.35
V2L4JH		147.30	-0.86	-0.67	149.10	-3.32	-2.29
VM2NDX		148.52	0.36	0.29	153.60	1.18	0.81
VU3W4Y		148.37	0.22	0.17	152.00	-0.41	-0.29
VWVTQ8		149.97	1.81	1.43	152.90	0.48	0.33
VZT932		150.45	2.29	1.80	151.83	-0.59	-0.41
W4Q2LX		147.30	-0.86	-0.68	152.41	0.00	0.00
W6WJKU		148.29	0.13	0.10	153.42	1.00	0.69
WPNM8M		149.39	1.23	0.97	152.00	-0.41	-0.29
WPNU8T		148.61	0.46	0.36	152.47	0.05	0.04
WVCB2R	*	151.60	3.44	2.71	153.40	0.98	0.68
XP64ZU	*	144.55	-3.61	-2.84	149.25	-3.17	-2.19

		Sample P69			Sample P70		
WebCode	Data Flag	Lab Mean	Diff. from Grand Mean	CPV	Lab Mean	Diff. from Grand Mean	CPV
XV8D3F	X	155.60	7.44	5.86	158.80	6.38	4.40
YA6LLF		150.50	2.34	1.85	153.60	1.18	0.82
YALX4L		147.80	-0.36	-0.28	152.60	0.18	0.13
YFWRKC		148.89	0.74	0.58	150.05	-2.36	-1.63
YG3GJE		150.12	1.97	1.55	152.16	-0.25	-0.17
YXALUX		147.30	-0.86	-0.67	150.10	-2.32	-1.60
Z98QFH		147.00	-1.16	-0.91	151.00	-1.42	-0.98
ZGY9UR		147.30	-0.86	-0.67	153.00	0.58	0.40
ZLGADD		151.00	2.84	2.24	155.30	2.88	1.99
ZLVTZW		148.90	0.74	0.59	153.40	0.98	0.68
ZPV4WW		147.79	-0.36	-0.28	153.16	0.75	0.51

Summary Statistics

	Sample P69		Sample P70	
Grand Means	148.16	ksi	152.42	ksi
Stnd Dev Btwn Labs	1.27	ksi	1.45	ksi

Samples P69, P70 : AISI 4340 (E), AISI 4340 (F)

Statistics based on 93 of 105 reporting participants

Comments on Assigned Data Flags for Test #1121

2J6V3P (X) - Data for sample P69 are high and data for sample P70 are low.

39FPLC (X) - Data for sample P69 are high.

3TLX3V (X) - Data for sample P69 are high and data for sample P70 are low.

4434EQ (X) - Data for sample P70 are low.

83HLMF (X) - Data for sample P69 are low.

CJMKXE (M) - Participant did not submit data for sample P69.

EEQPWH (X) - Data for sample P69 are high.

J8BMTC (X) - Data for sample P69 are high and data for sample P70 are low.

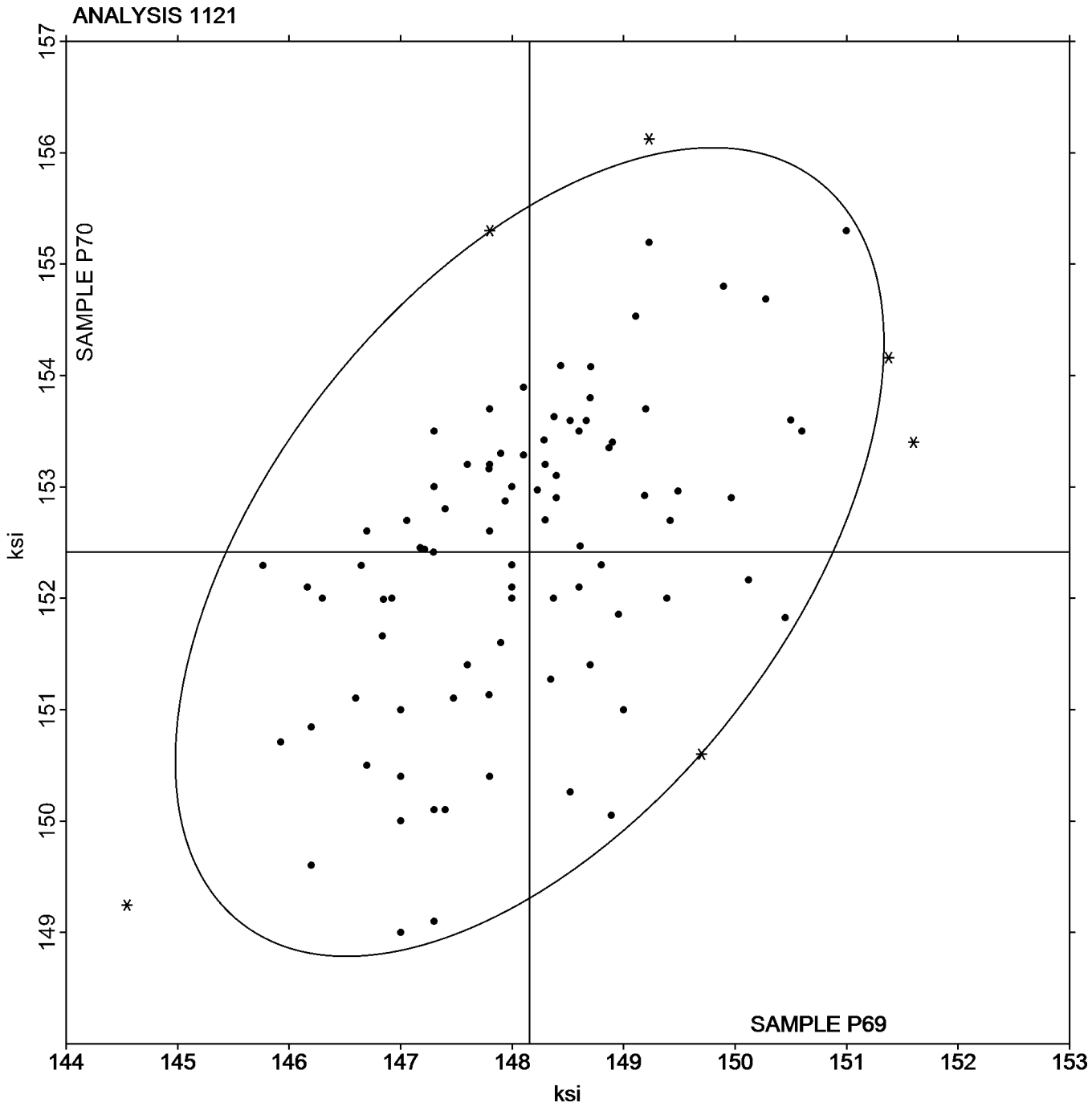
LYWBYC (X) - Data for both samples are high.

MYL9FG (X) - Data for both samples are high.

RZKV83 (X) - Data for both samples are low.

XV8D3F (X) - Data for both samples are high.

SAMPLE P69	SAMPLE P70
148.16 ksi	152.42 ksi



		Sample P69			Sample P70		
WebCode	Data Flag	Lab Mean	Diff. from Grand Mean	CPV	Lab Mean	Diff. from Grand Mean	CPV
27VDBL	*	118.20	-3.31	-2.13	131.30	2.80	1.48
2GKXZT		122.20	0.69	0.45	127.40	-1.10	-0.58
2H9FTD		121.59	0.08	0.05	128.02	-0.48	-0.26
2J6V3P	X	130.80	9.29	5.99	121.70	-6.80	-3.60
2KJ9VT		119.77	-1.74	-1.12	126.65	-1.85	-0.98
2NF49Z		119.66	-1.85	-1.19	127.78	-0.72	-0.38
39FPLC	X	129.20	7.69	4.96	123.10	-5.40	-2.86
3L3WFR		119.84	-1.66	-1.07	129.55	1.05	0.55
3TLX3V	X	130.06	8.55	5.51	120.18	-8.32	-4.41
4434EQ		121.70	0.19	0.12	129.90	1.40	0.74
4PJJUW		119.22	-2.29	-1.47	126.91	-1.59	-0.84
4R9PBM		122.41	0.90	0.58	131.41	2.90	1.54
4RRTNE		122.00	0.49	0.32	127.00	-1.50	-0.80
4XEJBA		121.69	0.18	0.12	125.60	-2.90	-1.53
6RLRKT		123.70	2.19	1.41	127.40	-1.10	-0.58
6TZ4EQ		121.80	0.29	0.19	126.00	-2.50	-1.32
6UA9RF		120.90	-0.61	-0.39	129.80	1.30	0.69
82M4LE		120.50	-1.01	-0.65	130.90	2.40	1.27
83HLMF	X	115.00	-6.51	-4.19	128.00	-0.50	-0.27
8YWW6N		118.79	-2.72	-1.75	129.08	0.58	0.31
8ZRF8P		121.72	0.21	0.14	130.57	2.07	1.09
9FJHL9		122.20	0.69	0.45	129.30	0.80	0.42
9WPWNN	*	123.00	1.49	0.96	124.00	-4.50	-2.38
A7RJ6M		123.90	2.39	1.54	128.40	-0.10	-0.05
A8KC3R		121.11	-0.40	-0.26	130.54	2.03	1.08
A9UGFF		122.80	1.29	0.83	130.00	1.50	0.79
BFCA6K		122.20	0.69	0.45	130.50	2.00	1.06
BMVF2Q		122.16	0.65	0.42	131.83	3.33	1.76
BP4HXN		121.40	-0.11	-0.07	128.10	-0.40	-0.21
BPXDE6		119.10	-2.41	-1.55	127.90	-0.60	-0.32
CJMKXE		123.21	1.70	1.10	129.69	1.19	0.63
DJJEVB		121.63	0.12	0.08	132.46	3.96	2.10
DKGRGH		122.21	0.70	0.45	130.40	1.90	1.00
EEQPWH	X	128.65	7.14	4.60	122.70	-5.80	-3.07
EFHXWL		120.24	-1.27	-0.82	127.92	-0.58	-0.31
EQWRAZ		123.46	1.95	1.26	128.16	-0.35	-0.18
EXW8Y8		121.83	0.32	0.21	128.07	-0.43	-0.23
F862TZ		122.90	1.39	0.90	130.10	1.60	0.85
F8KKDX		122.40	0.89	0.57	125.10	-3.40	-1.80
FCCRW7		121.74	0.23	0.15	131.02	2.52	1.33
GMFXUE		121.20	-0.31	-0.20	127.40	-1.10	-0.58
GV7QXY		121.30	-0.21	-0.13	127.40	-1.10	-0.58
GXVWGA	*	125.42	3.91	2.52	130.13	1.63	0.86
J8BMTC	X	128.70	7.19	4.63	120.00	-8.50	-4.50
JXMQUW		122.30	0.79	0.51	129.70	1.20	0.63
KAVPJH		120.00	-1.51	-0.97	126.00	-2.50	-1.32
LYWBYC	X	143.40	21.89	14.10	146.70	18.20	9.63

		Sample P69			Sample P70		
WebCode	Data Flag	Lab Mean	Diff. from Grand Mean	CPV	Lab Mean	Diff. from Grand Mean	CPV
M2CEW8		120.35	-1.16	-0.75	128.79	0.29	0.15
MLG3CA		120.20	-1.31	-0.84	127.50	-1.00	-0.53
MN6JJW		121.50	-0.01	-0.01	129.20	0.70	0.37
MVPJYA		121.25	-0.26	-0.16	126.76	-1.74	-0.92
MWHDWE		121.57	0.06	0.04	129.02	0.52	0.27
MYL9FG	X	129.79	8.28	5.34	135.82	7.32	3.87
NDG3C9		120.28	-1.23	-0.79	126.20	-2.30	-1.22
NEQYT7		121.11	-0.40	-0.26	128.60	0.10	0.05
NEUGXW		121.30	-0.21	-0.13	128.80	0.30	0.16
NPC426		119.70	-1.81	-1.17	128.50	0.00	0.00
NQ9JFN		120.00	-1.51	-0.97	130.14	1.64	0.87
NXLM7M		120.80	-0.71	-0.46	125.20	-3.30	-1.75
P672Q8		122.02	0.51	0.33	130.88	2.38	1.26
P93RQR		123.00	1.49	0.96	127.00	-1.50	-0.80
PRG2Z6		120.00	-1.51	-0.97	126.10	-2.40	-1.27
PT8CNC		119.87	-1.63	-1.05	128.75	0.25	0.13
Q3QBQ2		121.00	-0.51	-0.33	128.00	-0.50	-0.27
QELCD4		121.42	-0.09	-0.06	130.76	2.26	1.19
QM6DY9		120.00	-1.51	-0.97	125.60	-2.90	-1.54
QRWPTJ		120.00	-1.51	-0.97	127.00	-1.50	-0.80
R2Z4AB		120.02	-1.49	-0.96	127.81	-0.69	-0.37
R4M2H3		120.40	-1.11	-0.71	129.50	1.00	0.53
R6APU3		123.97	2.46	1.59	128.26	-0.24	-0.13
R6D8XT		121.10	-0.41	-0.26	129.70	1.20	0.63
R82JXX		122.20	0.69	0.45	128.60	0.10	0.05
R8F3HV		119.20	-2.31	-1.49	129.40	0.90	0.48
RDBWGH		121.00	-0.51	-0.33	123.80	-4.70	-2.49
RQTP44		123.11	1.60	1.03	131.61	3.10	1.64
RZKV83	X	112.67	-8.84	-5.69	117.16	-11.34	-6.00
T6AWJ2		122.49	0.98	0.63	129.66	1.15	0.61
U9QJUZ		122.20	0.69	0.45	131.20	2.70	1.43
UAGPAQ		120.80	-0.71	-0.46	129.10	0.60	0.32
UBD86Z		120.38	-1.13	-0.73	129.06	0.56	0.29
UXRLB7		120.50	-1.01	-0.65	128.40	-0.10	-0.05
V2L3Z7		123.12	1.61	1.04	128.90	0.40	0.21
V2L4JH		121.30	-0.21	-0.13	125.00	-3.50	-1.85
VM2NDX		121.25	-0.26	-0.16	129.23	0.73	0.38
VU3W4Y		121.25	-0.26	-0.16	127.20	-1.30	-0.69
VWVTQ8		121.82	0.31	0.20	128.25	-0.26	-0.14
VZT932	*	126.30	4.79	3.09	128.94	0.44	0.23
W6WJKU		122.01	0.51	0.33	131.29	2.79	1.48
WPNM8M		123.57	2.06	1.33	127.20	-1.30	-0.69
WPNU8T		122.38	0.87	0.56	130.05	1.55	0.82
WVCB2R	*	126.20	4.69	3.02	130.40	1.90	1.00
XP64ZU	X	64.40	-57.11	-36.80	62.58	-65.92	-34.89
XV8D3F	X	130.20	8.69	5.60	134.90	6.40	3.39
YA6LLF		123.10	1.59	1.03	128.30	-0.20	-0.11

WebCode	Data Flag	Sample P69 Lab Mean	Sample P69 Diff. from Grand Mean	Sample P69 CPV	Sample P70 Lab Mean	Sample P70 Diff. from Grand Mean	Sample P70 CPV
YALX4L		121.00	-0.51	-0.33	129.10	0.60	0.32
YFWRKC		123.12	1.61	1.03	126.61	-1.89	-1.00
YG3GJE		123.15	1.64	1.06	127.51	-1.00	-0.53
YXALUX	*	120.60	-0.91	-0.59	123.40	-5.10	-2.70
Z98QFH		121.00	-0.51	-0.33	127.00	-1.50	-0.80
ZGY9UR	*	117.40	-4.11	-2.65	126.60	-1.90	-1.01
ZLGADD		123.30	1.79	1.15	129.96	1.46	0.77
ZLVTZW		121.10	-0.41	-0.26	129.30	0.80	0.42
ZPV4WW		119.69	-1.82	-1.17	129.69	1.19	0.63

Summary Statistics

	Sample P69		Sample P70	
Grand Means	121.51	ksi	128.50	ksi
Stnd Dev Btwn Labs	1.55	ksi	1.89	ksi

Samples P69, P70 : AISI 4340 (E), AISI 4340 (F)

Statistics based on 92 of 103 reporting participants

Comments on Assigned Data Flags for Test #1122

2J6V3P (X) - Data for sample P69 are high and data for sample P70 are low.

39FPLC (X) - Data for sample P69 are high and data for sample P70 are low.

3TLX3V (X) - Data for sample P69 are high and data for sample P70 are low.

83HLMF (X) - Data for sample P69 are low.

EEQPWH (X) - Data for sample P69 are high and data for sample P70 are low.

J8BMTC (X) - Data for sample P69 are high and data for sample P70 are low.

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

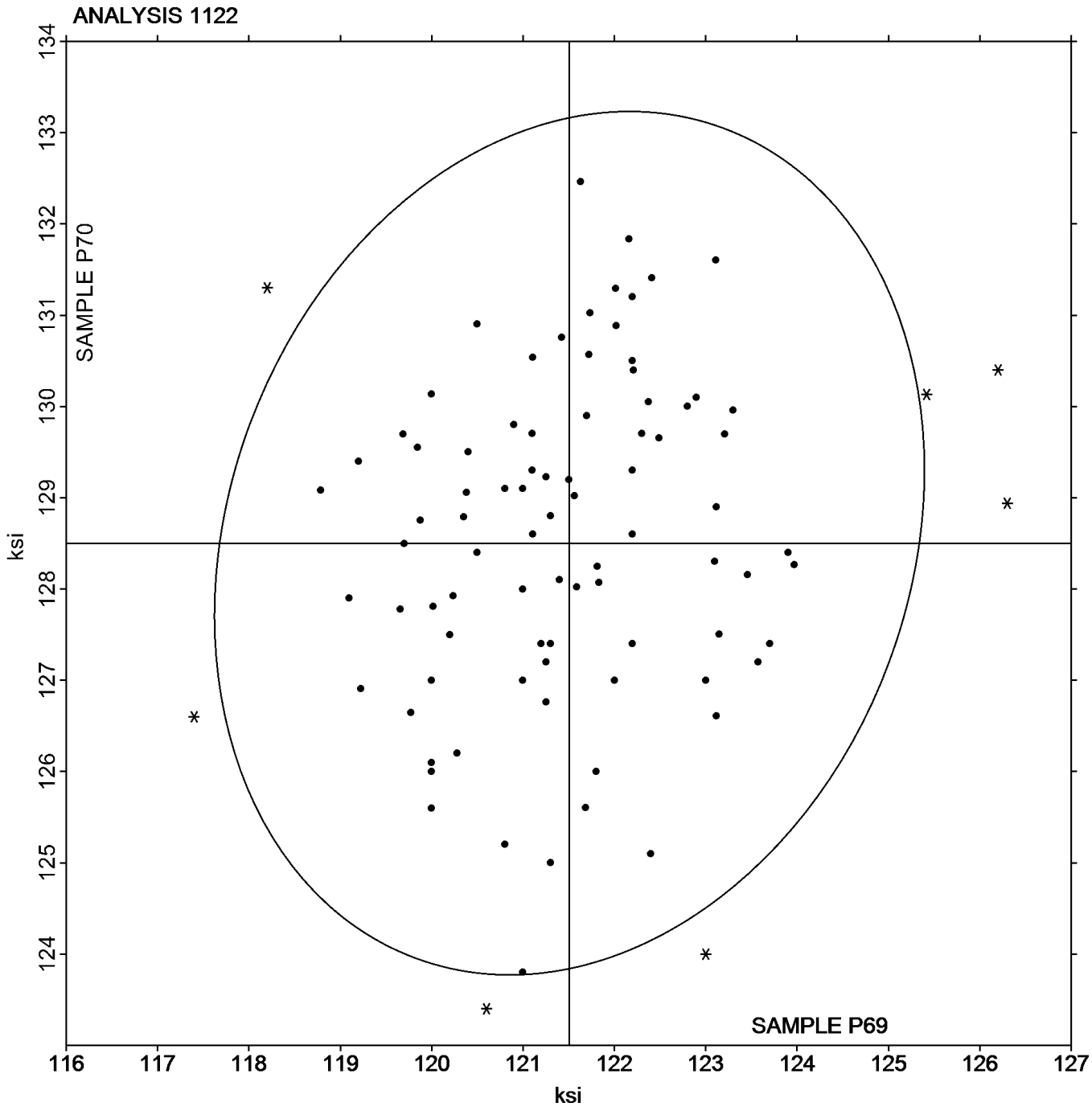
MYL9FG (X) - Data for both samples are high.

RZKV83 (X) - Data for both samples are low.

XP64ZU (X) - Data for both samples are extremely low.

XV8D3F (X) - Data for both samples are high.

SAMPLE P69	SAMPLE P70
121.51 ksi	128.50 ksi



		Sample P69			Sample P70		
WebCode	Data Flag	Lab Mean	Diff. from Grand Mean	CPV	Lab Mean	Diff. from Grand Mean	CPV
27VDBL		18.60	0.66	0.60	17.10	-0.21	-0.16
2GKXZT		17.80	-0.14	-0.13	17.40	0.09	0.07
2H9FTD		18.00	0.06	0.05	18.00	0.69	0.53
2J6V3P		17.60	-0.34	-0.31	17.30	-0.01	-0.01
2KJ9VT		17.00	-0.94	-0.87	15.00	-2.31	-1.76
2NF49Z		19.26	1.32	1.21	19.20	1.89	1.45
39FPLC		16.58	-1.36	-1.25	17.30	-0.01	-0.01
3L3WFR	X	14.00	-3.94	-3.63	19.00	1.69	1.29
3TLX3V		19.40	1.46	1.34	18.20	0.89	0.68
4434EQ		17.50	-0.44	-0.41	17.50	0.19	0.15
4PJJUW		19.80	1.86	1.71	19.00	1.69	1.29
4R9PBM		17.50	-0.44	-0.41	19.30	1.99	1.52
4RRTNE		18.10	0.16	0.14	17.20	-0.11	-0.08
4XEJBA		18.00	0.06	0.05	15.50	-1.81	-1.38
6RLRKT		19.10	1.16	1.06	17.40	0.09	0.07
6TZ4EQ		18.10	0.16	0.14	18.80	1.49	1.14
6UA9RF		17.50	-0.44	-0.41	17.00	-0.31	-0.23
82M4LE		18.20	0.26	0.24	18.10	0.79	0.61
83HLMF	*	21.00	3.06	2.81	19.00	1.69	1.29
8YWW6N		17.70	-0.24	-0.22	16.90	-0.41	-0.31
8ZRF8P		17.00	-0.94	-0.87	16.20	-1.11	-0.85
9FJHL9	*	18.15	0.21	0.19	14.80	-2.51	-1.92
9WPWNN		17.00	-0.94	-0.87	15.00	-2.31	-1.76
A7RJ6M		17.00	-0.94	-0.87	16.50	-0.81	-0.62
A8KC3R		16.00	-1.94	-1.79	15.40	-1.91	-1.46
A9UGFF		18.70	0.76	0.70	19.00	1.69	1.29
BFCA6K		17.60	-0.34	-0.31	18.80	1.49	1.14
BMVF2Q		18.71	0.77	0.71	19.41	2.10	1.61
BP4HXN		18.20	0.26	0.24	17.80	0.49	0.38
BPXDE6		18.10	0.16	0.14	16.50	-0.81	-0.62
CJMKXE	M	No Data Reported			17.62	0.31	0.24
DJJEVB		18.90	0.96	0.88	18.35	1.04	0.80
DKGRGH	*	17.50	-0.44	-0.41	19.50	2.19	1.68
EEQPWH		16.00	-1.94	-1.79	15.00	-2.31	-1.76
EFHXWL		16.60	-1.34	-1.23	15.60	-1.71	-1.30
EQWRAZ		18.80	0.86	0.79	18.20	0.89	0.68
EXW8Y8		20.00	2.06	1.89	20.00	2.69	2.06
F862TZ		20.50	2.56	2.35	20.00	2.69	2.06
F8KKDX		19.30	1.36	1.25	17.90	0.59	0.45
FCCRW7		18.00	0.06	0.05	17.00	-0.31	-0.23
GMFXUE		16.50	-1.44	-1.33	15.50	-1.81	-1.38
GV7QXY		17.10	-0.84	-0.77	15.50	-1.81	-1.38
GXVWGA		18.50	0.56	0.51	19.00	1.69	1.29
J8BMTC		17.00	-0.94	-0.87	18.00	0.69	0.53
JXMQUW		18.70	0.76	0.70	16.00	-1.31	-1.00
KAVPJH		17.50	-0.44	-0.41	17.50	0.19	0.15
LYWBYC	X	17.50	-0.44	-0.41	20.50	3.19	2.44

		Sample P69			Sample P70		
WebCode	Data Flag	Lab Mean	Diff. from Grand Mean	CPV	Lab Mean	Diff. from Grand Mean	CPV
M2CEW8		19.00	1.06	0.97	17.60	0.29	0.22
MLG3CA		15.60	-2.34	-2.15	14.90	-2.41	-1.84
MN6JJW		17.00	-0.94	-0.87	17.00	-0.31	-0.23
MVPJYA		19.00	1.06	0.97	20.00	2.69	2.06
MWHDWE		19.08	1.14	1.05	18.50	1.19	0.91
MYL9FG		16.90	-1.04	-0.96	16.80	-0.51	-0.39
NDG3C9		18.10	0.16	0.14	17.30	-0.01	-0.01
NEQYT7		18.06	0.12	0.11	17.60	0.29	0.22
NEUGXW		17.00	-0.94	-0.87	17.00	-0.31	-0.23
NPC426		15.70	-2.24	-2.06	15.50	-1.81	-1.38
NQ9JFN		18.80	0.86	0.79	17.35	0.04	0.03
NXLM7M		17.40	-0.54	-0.50	18.10	0.79	0.61
P672Q8		17.30	-0.64	-0.59	17.40	0.09	0.07
P93RQR		17.20	-0.74	-0.68	16.00	-1.31	-1.00
PRG2Z6		18.20	0.26	0.24	15.50	-1.81	-1.38
PT8CNC		18.06	0.12	0.11	16.00	-1.31	-1.00
Q3QBQ2		17.50	-0.44	-0.41	17.70	0.39	0.30
QELCD4		16.00	-1.94	-1.79	15.00	-2.31	-1.76
QM6DY9		19.00	1.06	0.97	18.00	0.69	0.53
QRWPTJ		18.00	0.06	0.05	17.00	-0.31	-0.23
R2Z4AB		17.10	-0.84	-0.77	17.60	0.29	0.22
R4M2H3		17.60	-0.34	-0.31	16.60	-0.71	-0.54
R6APU3		20.60	2.66	2.44	19.40	2.09	1.60
R6D8XT		17.50	-0.44	-0.41	17.50	0.19	0.15
R82JXX		17.60	-0.34	-0.31	18.20	0.89	0.68
R8F3HV		18.10	0.16	0.14	16.60	-0.71	-0.54
RDBWGH		18.90	0.96	0.88	16.10	-1.21	-0.92
RQTP44		18.00	0.06	0.05	17.00	-0.31	-0.23
RZKV83		16.25	-1.69	-1.56	15.10	-2.21	-1.69
T6AWJ2		17.00	-0.94	-0.87	17.00	-0.31	-0.23
U9QJUZ		17.30	-0.64	-0.59	16.30	-1.01	-0.77
UAGPAQ		17.50	-0.44	-0.41	17.00	-0.31	-0.23
UBD86Z		16.00	-1.94	-1.79	17.00	-0.31	-0.23
UXRLB7		18.50	0.56	0.51	19.00	1.69	1.29
V2L3Z7		16.70	-1.24	-1.14	15.60	-1.71	-1.30
V2L4JH		17.50	-0.44	-0.41	16.50	-0.81	-0.62
VM2NDX		19.00	1.06	0.97	19.00	1.69	1.29
VU3W4Y		17.48	-0.46	-0.43	16.80	-0.51	-0.39
VWVTQ8		17.60	-0.34	-0.31	16.80	-0.51	-0.39
VZT932		18.10	0.16	0.14	18.60	1.29	0.99
W6WJKU		19.00	1.06	0.97	19.00	1.69	1.29
WPNM8M		17.50	-0.44	-0.41	17.20	-0.11	-0.08
WPNU8T		18.95	1.01	0.93	18.15	0.84	0.64
WVCB2R		19.45	1.51	1.39	18.10	0.79	0.61
XP64ZU	X	17.20	-0.74	-0.68	12.90	-4.41	-3.37
XV8D3F	X	13.65	-4.29	-3.95	15.75	-1.56	-1.19
YA6LLF		17.70	-0.24	-0.22	17.20	-0.11	-0.08

WebCode	Data Flag	Sample P69 Lab Mean	Sample P69 Diff. from Grand Mean	Sample P69 CPV	Sample P70 Lab Mean	Sample P70 Diff. from Grand Mean	Sample P70 CPV
YALX4L		17.50	-0.44	-0.41	17.00	-0.31	-0.23
YFWRKC		19.10	1.16	1.06	16.80	-0.51	-0.39
YG3GJE		19.67	1.73	1.59	19.04	1.73	1.32
YXALUX		18.10	0.16	0.14	15.50	-1.81	-1.38
Z98QFH		18.00	0.06	0.05	16.80	-0.51	-0.39
ZGY9UR		17.20	-0.74	-0.68	16.50	-0.81	-0.62
ZLGADD		16.55	-1.39	-1.28	17.35	0.04	0.03
ZLVTZW		18.70	0.76	0.70	17.20	-0.11	-0.08
ZPV4WW		19.60	1.66	1.52	18.60	1.29	0.99

Summary Statistics

	Sample P69		Sample P70	
Grand Means	17.94	Percent	17.31	Percent
Stnd Dev Btwn Labs	1.09	Percent	1.31	Percent

Samples P69, P70 : AISI 4340 (E), AISI 4340 (F)

Statistics based on 98 of 103 reporting participants

Comments on Assigned Data Flags for Test #1123

3L3WFR (X) - Data for sample P69 are low.

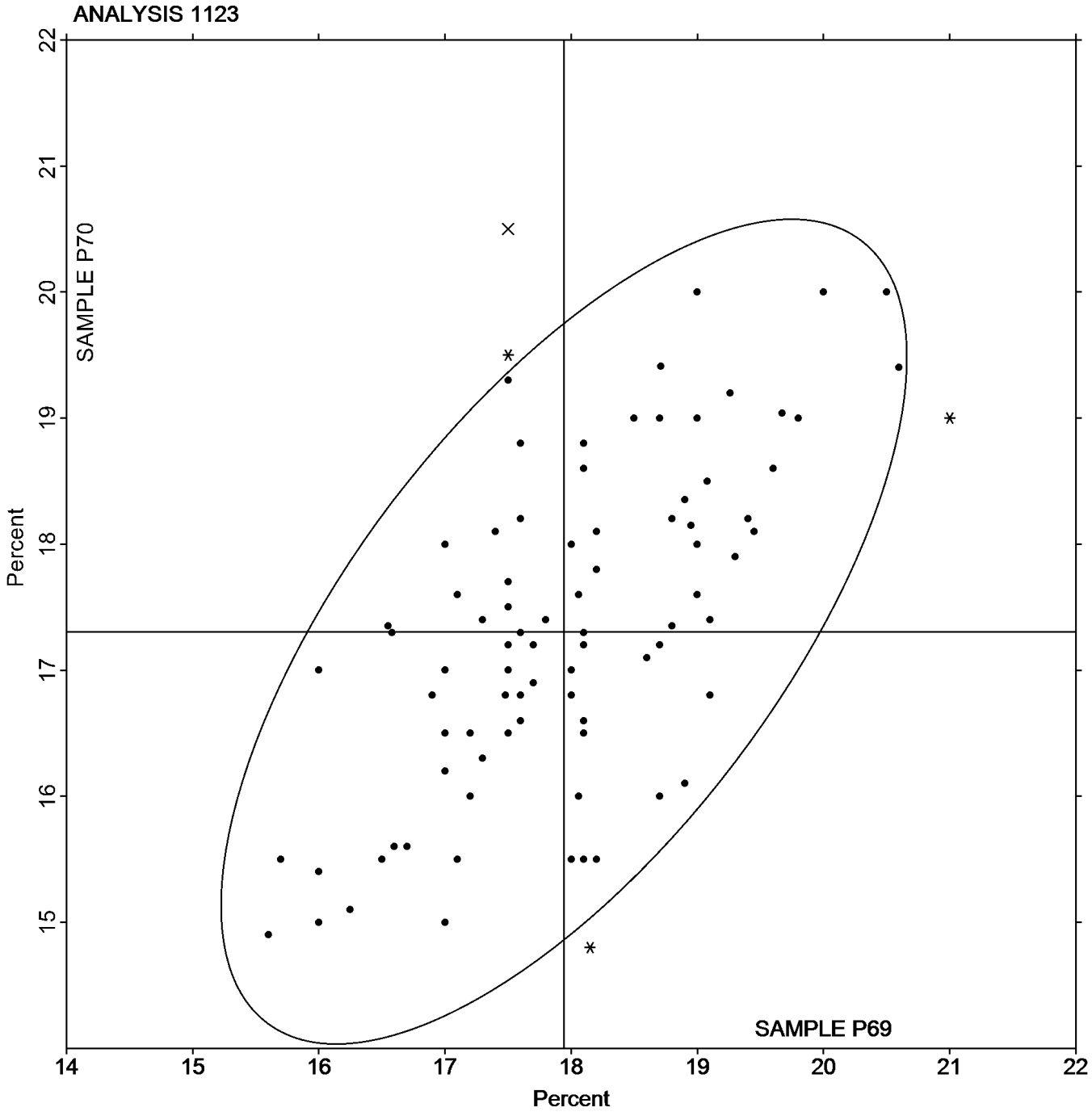
CJMKXE (M) - Participant did not submit data for sample .

LYWBYC (X) - Inconsistent in testing between samples.

XP64ZU (X) - Data for sample P70 are low.

XV8D3F (X) - Data for sample P69 are low.

SAMPLE P69	SAMPLE P70
17.94 Percent	17.31 Percent



		Sample P69			Sample P70		
WebCode	Data Flag	Lab Mean	Diff. from Grand Mean	CPV	Lab Mean	Diff. from Grand Mean	CPV
2GKXZT		54.00	-1.47	-1.03	48.20	-5.39	-1.67
2H9FTD		54.50	-0.97	-0.68	55.60	2.01	0.62
2J6V3P		56.30	0.83	0.58	57.00	3.41	1.06
2KJ9VT		56.60	1.13	0.79	47.30	-6.29	-1.95
2NF49Z		56.09	0.62	0.43	57.42	3.83	1.19
39FPLC		53.10	-2.37	-1.66	56.00	2.41	0.75
3L3WFR		55.00	-0.47	-0.33	53.00	-0.59	-0.18
3TLX3V		58.50	3.03	2.11	54.20	0.61	0.19
4434EQ		53.30	-2.17	-1.52	56.90	3.31	1.03
4PJJUW		57.50	2.03	1.42	53.00	-0.59	-0.18
4R9PBM	X	49.20	-6.27	-4.38	56.30	2.71	0.84
4RRTNE		56.70	1.23	0.86	48.50	-5.09	-1.57
4XEJBA		56.00	0.53	0.37	50.00	-3.59	-1.11
6RLRKT		55.90	0.43	0.30	46.30	-7.29	-2.26
6UA9RF		56.20	0.73	0.51	54.10	0.51	0.16
82M4LE	*	58.50	3.03	2.11	59.50	5.91	1.83
83HLMF		58.00	2.53	1.76	51.00	-2.59	-0.80
8YWW6N		56.00	0.53	0.37	53.90	0.31	0.10
8ZRF8P		57.00	1.53	1.07	54.80	1.21	0.38
9FJHL9		55.82	0.35	0.24	47.37	-6.22	-1.92
9WPWNN		56.00	0.53	0.37	51.00	-2.59	-0.80
A7RJ6M		56.30	0.83	0.58	55.20	1.61	0.50
A8KC3R		55.30	-0.17	-0.12	52.20	-1.39	-0.43
A9UGFF		56.50	1.03	0.72	56.70	3.11	0.96
BFCA6K	X	46.00	-9.47	-6.62	49.50	-4.09	-1.27
BMVF2Q		55.19	-0.28	-0.20	57.81	4.22	1.31
BP4HXN		57.40	1.93	1.35	53.90	0.31	0.10
BPXDE6		57.00	1.53	1.07	50.60	-2.99	-0.92
CJMKXE	M	No Data Reported			42.40	-11.19	-3.46
DJJEVB		56.70	1.23	0.86	59.04	5.45	1.69
DKGRGH	*	52.20	-3.27	-2.29	57.15	3.56	1.10
EEQPWH	X	49.00	-6.47	-4.52	54.00	0.41	0.13
EFHXWL		56.80	1.33	0.93	52.40	-1.19	-0.37
EXW8Y8		55.00	-0.47	-0.33	56.00	2.41	0.75
F862TZ		56.20	0.73	0.51	54.60	1.01	0.31
F8KKDX		56.80	1.33	0.93	50.20	-3.39	-1.05
FCCRW7		56.00	0.53	0.37	53.00	-0.59	-0.18
GMFXUE		55.10	-0.37	-0.26	47.60	-5.99	-1.85
GV7QXY		54.80	-0.67	-0.47	48.10	-5.49	-1.70
GXVWGA		56.00	0.53	0.37	57.00	3.41	1.06
J8BMTC		53.40	-2.07	-1.45	56.40	2.81	0.87
JXMQUW		56.50	1.03	0.72	46.80	-6.79	-2.10
KAVPJH	*	52.40	-3.07	-2.15	47.20	-6.39	-1.98
LYWBYC		54.00	-1.47	-1.03	55.00	1.41	0.44
M2CEW8		53.00	-2.47	-1.73	53.00	-0.59	-0.18
MLG3CA	X	52.70	-2.77	-1.94	44.60	-8.99	-2.78
MN6JJW		55.20	-0.27	-0.19	54.90	1.31	0.41

		Sample P69			Sample P70		
WebCode	Data Flag	Lab Mean	Diff. from Grand Mean	CPV	Lab Mean	Diff. from Grand Mean	CPV
MVPJYA		56.00	0.53	0.37	55.00	1.41	0.44
MWHDWE		53.49	-1.98	-1.38	52.26	-1.33	-0.41
MYL9FG		55.47	0.00	0.00	54.85	1.26	0.39
NDG3C9		54.20	-1.27	-0.89	51.40	-2.19	-0.68
NEQYT7		53.64	-1.83	-1.28	54.87	1.28	0.40
NEUGXW		55.50	0.03	0.02	54.90	1.31	0.41
NPC426		55.30	-0.17	-0.12	52.20	-1.39	-0.43
NQ9JFN		55.29	-0.18	-0.13	54.38	0.79	0.25
NXLM7M		56.00	0.53	0.37	53.60	0.01	0.00
P672Q8		55.00	-0.47	-0.33	55.60	2.01	0.62
P93RQR		56.30	0.83	0.58	51.30	-2.29	-0.71
PRG2Z6		54.90	-0.57	-0.40	49.20	-4.39	-1.36
PT8CNC		55.73	0.26	0.18	54.84	1.25	0.39
Q3QBQ2		53.50	-1.97	-1.38	55.50	1.91	0.59
QELCD4		57.00	1.53	1.07	54.00	0.41	0.13
QM6DY9		55.80	0.33	0.23	51.30	-2.29	-0.71
QRWPTJ		56.00	0.53	0.37	52.00	-1.59	-0.49
R2Z4AB	*	51.50	-3.97	-2.77	54.20	0.61	0.19
R4M2H3		57.30	1.83	1.28	53.00	-0.59	-0.18
R6APU3		54.84	-0.63	-0.44	58.34	4.75	1.47
R6D8XT		56.40	0.93	0.65	56.30	2.71	0.84
R82JXX		55.80	0.33	0.23	58.20	4.61	1.43
R8F3HV		56.70	1.23	0.86	52.90	-0.69	-0.21
RDBWGH		55.20	-0.27	-0.19	50.70	-2.89	-0.89
RQTP44		54.00	-1.47	-1.03	57.00	3.41	1.06
RZKV83		54.40	-1.07	-0.75	49.46	-4.13	-1.28
T6AWJ2		57.00	1.53	1.07	57.00	3.41	1.06
U9QJUZ		56.40	0.93	0.65	53.30	-0.29	-0.09
UAGPAQ		55.60	0.13	0.09	54.90	1.31	0.41
UBD86Z		54.00	-1.47	-1.03	58.00	4.41	1.37
UXRLB7		56.30	0.83	0.58	57.20	3.61	1.12
V2L3Z7		56.50	1.03	0.72	53.00	-0.59	-0.18
V2L4JH		56.90	1.43	1.00	49.70	-3.89	-1.20
VM2NDX		55.00	-0.47	-0.33	58.00	4.41	1.37
VU3W4Y		55.49	0.02	0.01	49.02	-4.57	-1.41
VWVTQ8		54.50	-0.97	-0.68	52.10	-1.49	-0.46
VZT932		56.90	1.43	1.00	57.10	3.51	1.09
W6WJKU		58.00	2.53	1.76	59.00	5.41	1.68
WPNM8M		52.70	-2.77	-1.94	51.60	-1.99	-0.61
WPNU8T		55.20	-0.27	-0.19	56.18	2.59	0.80
WVCB2R		56.00	0.53	0.37	51.00	-2.59	-0.80
XP64ZU	X	32.30	-23.17	-16.18	33.00	-20.59	-6.37
XV8D3F	X	50.90	-4.57	-3.19	57.70	4.11	1.27
YA6LLF		53.40	-2.07	-1.45	55.80	2.21	0.69
YALX4L		55.70	0.23	0.16	55.50	1.91	0.59
YFWRKC		55.00	-0.47	-0.33	51.40	-2.19	-0.68
YG3GJE		55.11	-0.36	-0.25	57.04	3.45	1.07

WebCode	Data Flag	Sample P69 Lab Mean	Sample P69 Diff. from Grand Mean	Sample P69 CPV	Sample P70 Lab Mean	Sample P70 Diff. from Grand Mean	Sample P70 CPV
YXALUX		55.80	0.33	0.23	48.30	-5.29	-1.64
Z98QFH		54.50	-0.97	-0.68	51.30	-2.29	-0.71
ZGY9UR		53.00	-2.47	-1.73	57.00	3.41	1.06
ZLGADD		53.21	-2.26	-1.58	54.14	0.55	0.17
ZLVTZW		57.20	1.73	1.21	54.60	1.01	0.31
ZPV4WW		55.50	0.03	0.02	54.10	0.51	0.16

Summary Statistics

	Sample P69		Sample P70	
Grand Means	55.47	Percent	53.59	Percent
Stnd Dev Btwn Labs	1.43	Percent	3.23	Percent

Samples P69, P70 : AISI 4340 (E), AISI 4340 (F)

Statistics based on 93 of 100 reporting participants

Comments on Assigned Data Flags for Test #1124

4R9PBM (X) - Data for sample P69 are low.

BFCA6K (X) - Data for sample P69 are low.

CJMKXE (M) - Participant did not submit data for sample .

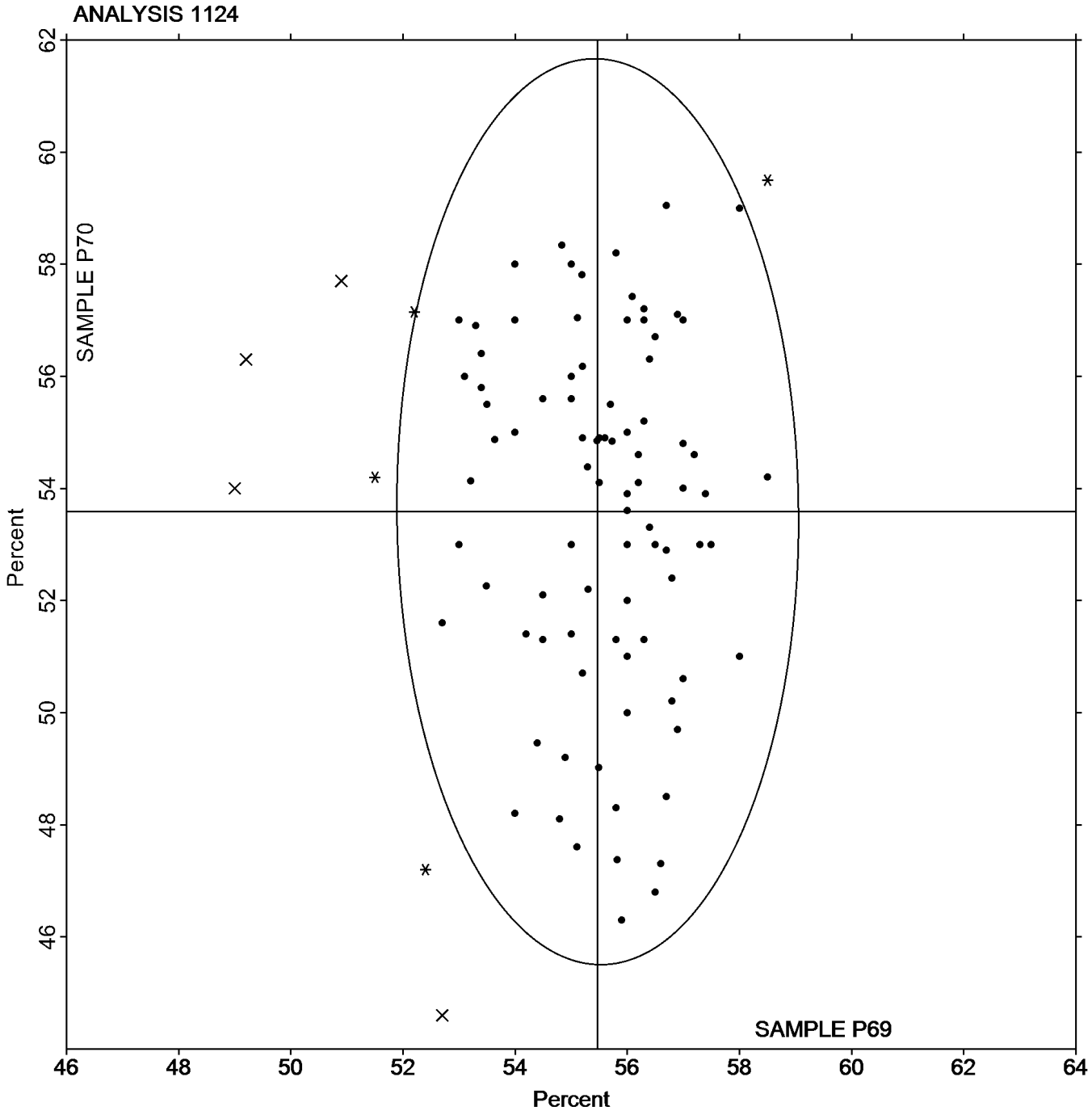
EEQPWH (X) - Data for sample P69 are low.

MLG3CA (X) - Data for sample P70 are low.

XP64ZU (X) - Data for both samples are low.

XV8D3F (X) - Data for sample P69 are low.

SAMPLE P69	SAMPLE P70
55.47 Percent	53.59 Percent



		Sample N69			Sample N70		
WebCode	Data Flag	Lab Mean	Diff. from Grand Mean	CPV	Lab Mean	Diff. from Grand Mean	CPV
29N89Q	*	93.42	-0.37	-0.91	93.34	-0.93	-2.23
2KJ9VT		93.80	0.01	0.03	94.20	-0.07	-0.17
2RG94T		93.41	-0.38	-0.93	93.97	-0.31	-0.73
2RVJXR		94.16	0.37	0.92	94.36	0.09	0.21
33UMQT		94.34	0.55	1.37	94.54	0.27	0.64
3FECCB		94.30	0.51	1.27	94.86	0.59	1.41
3L3WFR		93.88	0.09	0.23	94.28	0.01	0.02
3W8X4X	X	14.54	-79.25	-196.72	15.00	-79.27	-189.59
3Z3VAF	X	94.78	0.99	2.46	95.84	1.57	3.75
46C9RE		93.62	-0.17	-0.42	93.86	-0.41	-0.99
4D3WGP		93.24	-0.55	-1.36	93.64	-0.63	-1.51
4PZRKC		93.66	-0.13	-0.32	93.92	-0.35	-0.84
4YNLYU		93.92	0.13	0.33	94.52	0.25	0.59
627CFP		94.31	0.52	1.28	94.62	0.35	0.84
629VJF	X	92.10	-1.68	-4.18	92.03	-2.24	-5.37
6T2ZPM		93.72	-0.07	-0.17	93.92	-0.35	-0.84
7K3V86		93.58	-0.21	-0.52	94.14	-0.13	-0.32
82M4LE		93.86	0.07	0.18	94.24	-0.03	-0.08
83HLMF		93.30	-0.49	-1.21	93.50	-0.77	-1.85
8E9FYA		93.64	-0.15	-0.37	94.08	-0.19	-0.46
93BRKL		93.36	-0.43	-1.06	94.24	-0.03	-0.08
98PAZH		93.96	0.17	0.43	94.52	0.25	0.59
9E6BX7		94.00	0.21	0.53	94.54	0.27	0.64
9JKHL6		93.96	0.17	0.43	94.26	-0.01	-0.03
9NU2FR		93.52	-0.27	-0.67	94.18	-0.09	-0.22
9X49K8		94.10	0.31	0.77	94.44	0.17	0.40
AKMZW7		93.74	-0.05	-0.12	94.50	0.23	0.54
AKPP24		93.64	-0.15	-0.37	93.80	-0.47	-1.13
AUF8YK		93.40	-0.39	-0.96	93.64	-0.63	-1.51
BED8FF	X	92.76	-1.03	-2.55	93.88	-0.39	-0.94
BK4GMT		94.03	0.24	0.60	94.84	0.56	1.35
BK66DJ		93.42	-0.37	-0.91	93.82	-0.45	-1.08
BK8YRJ		94.00	0.21	0.53	94.60	0.33	0.78
BLF7YH		93.34	-0.45	-1.11	93.88	-0.39	-0.94
BP4HXN		93.78	-0.01	-0.02	94.28	0.01	0.02
C74WQ2		93.52	-0.27	-0.67	93.90	-0.37	-0.89
CF93HH		93.52	-0.27	-0.67	94.16	-0.11	-0.27
CNK42X	X	91.84	-1.95	-4.84	91.96	-2.31	-5.53
CTVAJP		93.74	-0.05	-0.12	94.44	0.17	0.40
CU8QW4		93.61	-0.18	-0.44	94.35	0.08	0.20
D482FX		94.46	0.67	1.67	94.80	0.53	1.26
D8QVG6		94.00	0.21	0.53	95.00	0.73	1.74
DGHB7A	X	95.44	1.65	4.10	95.96	1.69	4.04
DKGRGH		94.08	0.29	0.72	94.62	0.35	0.83
DQN9XJ		94.34	0.55	1.37	94.74	0.47	1.12
EEQPWH		93.84	0.05	0.12	94.39	0.12	0.28
EFHXWL		94.00	0.21	0.52	94.72	0.45	1.08

		Sample N69			Sample N70		
WebCode	Data Flag	Lab Mean	Diff. from Grand Mean	CPV	Lab Mean	Diff. from Grand Mean	CPV
EJG6GJ	*	93.86	0.07	0.18	94.98	0.71	1.69
EJH4EX		93.82	0.03	0.08	94.44	0.17	0.40
F6GPUU		93.46	-0.33	-0.82	94.04	-0.23	-0.56
F8JJUK		93.74	-0.05	-0.12	94.42	0.15	0.35
F8KKDX		93.82	0.03	0.08	94.36	0.09	0.21
FCCRW7		94.02	0.23	0.57	94.26	-0.01	-0.03
FD8BX8		93.52	-0.27	-0.67	93.86	-0.41	-0.99
G36CPX		93.36	-0.43	-1.06	93.86	-0.41	-0.99
GMFXUE		93.18	-0.61	-1.51	93.76	-0.51	-1.22
GRLXMV		93.08	-0.71	-1.76	93.48	-0.79	-1.89
H4U36B		94.36	0.57	1.42	94.82	0.55	1.31
H7YQN8		93.98	0.19	0.48	94.26	-0.01	-0.03
HBFPNG		94.58	0.79	1.96	94.76	0.49	1.17
HJ86DK		93.86	0.07	0.18	94.36	0.09	0.21
HWUJ98		94.00	0.21	0.53	94.38	0.11	0.26
J2K99C		93.94	0.15	0.38	94.36	0.09	0.21
J3FQAD		93.74	-0.05	-0.12	93.92	-0.35	-0.84
J7YTDC		93.38	-0.41	-1.01	93.56	-0.71	-1.70
JC4QHA		94.40	0.61	1.52	94.90	0.63	1.50
JTTWUA		94.70	0.91	2.26	95.26	0.99	2.36
JVFECV		92.80	-0.99	-2.45	93.40	-0.87	-2.09
JWUWDF		93.40	-0.39	-0.96	94.00	-0.27	-0.65
JXMQUW		94.34	0.55	1.37	94.64	0.37	0.88
JZ8J4D		93.66	-0.13	-0.32	94.56	0.29	0.69
KJMALA		93.68	-0.11	-0.27	94.06	-0.21	-0.51
KMWRFW		93.78	-0.01	-0.02	94.44	0.17	0.40
KRDXC7		94.50	0.71	1.77	94.88	0.61	1.45
KUMXGD		93.72	-0.07	-0.17	93.94	-0.33	-0.79
L2FTRG		93.30	-0.49	-1.21	93.84	-0.43	-1.03
LVBV6A		93.78	-0.01	-0.02	94.20	-0.07	-0.17
M2CEW8		93.38	-0.41	-1.01	94.18	-0.09	-0.22
MYL9FG		94.52	0.73	1.82	95.12	0.85	2.03
NEBXTP		94.04	0.25	0.62	94.22	-0.05	-0.12
NEQYT7		94.06	0.27	0.67	94.46	0.19	0.45
NEW9PC		93.30	-0.49	-1.21	93.86	-0.41	-0.99
NPVXR8		93.82	0.03	0.08	93.94	-0.33	-0.79
NU9MAV		93.54	-0.25	-0.62	94.04	-0.23	-0.56
P93RQR		93.30	-0.49	-1.21	93.94	-0.33	-0.79
PVZ7N3		93.96	0.17	0.43	94.26	-0.01	-0.03
Q3QBQ2	*	93.12	-0.67	-1.66	94.18	-0.09	-0.22
Q7EFRL		93.52	-0.27	-0.67	94.22	-0.05	-0.12
QAETB6		93.24	-0.55	-1.36	93.86	-0.41	-0.99
QCHJJ6		93.82	0.03	0.08	94.24	-0.03	-0.08
QM6DY9		93.98	0.19	0.48	94.12	-0.15	-0.36
QRWPTJ		93.30	-0.49	-1.21	94.10	-0.17	-0.41
QT3ET8		94.28	0.49	1.22	94.30	0.03	0.07
R6APU3		93.20	-0.59	-1.46	93.94	-0.33	-0.79

WebCode	Data Flag	Sample N69 Lab Mean	Sample N69 Diff. from Grand Mean	Sample N69 CPV	Sample N70 Lab Mean	Sample N70 Diff. from Grand Mean	Sample N70 CPV
RHZET9		93.54	-0.25	-0.62	94.06	-0.21	-0.51
RUF962		94.20	0.41	1.02	94.40	0.13	0.31
RZKV83	*	94.86	1.07	2.66	95.00	0.73	1.74
T3693Q		93.98	0.19	0.48	94.54	0.27	0.64
T7QXM3		94.28	0.49	1.22	94.82	0.55	1.31
T8Z3ZR	*	94.16	0.37	0.92	95.16	0.89	2.12
TTKV8Z		94.06	0.27	0.67	94.46	0.19	0.45
V2L3Z7		93.34	-0.45	-1.11	94.32	0.05	0.11
V2L4JH		93.84	0.05	0.13	94.20	-0.07	-0.17
V4BFHN	*	94.38	0.59	1.47	95.30	1.03	2.46
VKXX6X		93.72	-0.07	-0.17	94.28	0.01	0.02
VWVTQ8		94.24	0.45	1.12	94.64	0.37	0.88
W48D44		93.31	-0.48	-1.19	94.29	0.02	0.05
W4Q2LX		94.46	0.67	1.67	94.62	0.35	0.83
WJKL9D		93.92	0.13	0.33	94.54	0.27	0.64
WKWJDH		94.16	0.37	0.92	94.43	0.16	0.38
WNVRQ6		93.80	0.01	0.03	94.42	0.15	0.35
WPNU8T		94.20	0.41	1.02	94.85	0.58	1.38
WXZM2X		93.56	-0.23	-0.57	93.94	-0.33	-0.79
XKBXPY	X	91.80	-1.99	-4.94	93.68	-0.59	-1.42
XMCAZ6		93.50	-0.29	-0.72	94.20	-0.07	-0.17
YAK3HU		93.36	-0.43	-1.06	93.88	-0.39	-0.94
YXALUX	*	93.14	-0.65	-1.61	93.22	-1.05	-2.52
ZC78RC		93.56	-0.23	-0.57	93.96	-0.31	-0.75
ZGY9UR	X	92.42	-1.37	-3.40	93.32	-0.95	-2.28
ZLVTZW		93.04	-0.75	-1.86	93.42	-0.85	-2.04
ZNMREU		93.50	-0.29	-0.72	94.22	-0.05	-0.12
ZTVFPB		94.12	0.33	0.82	94.22	-0.05	-0.12

Summary Statistics

	Sample N69		Sample N70	
Grand Means	93.79	HRB	94.27	HRB
Stnd Dev Btwn Labs	0.40	HRB	0.42	HRB

Samples N69, N70 : Steel, Steel

Statistics based on 114 of 122 reporting participants

Comments on Assigned Data Flags for Test #1301

3W8X4X (X) - Extreme data.

3Z3VAF (X) - Data for sample N70 are high.

629VJF (X) - Data for both samples are low. Possible Systematic Error. Inconsistent within the determinations of both samples.

BED8FF (X) - Inconsistent in testing between samples.

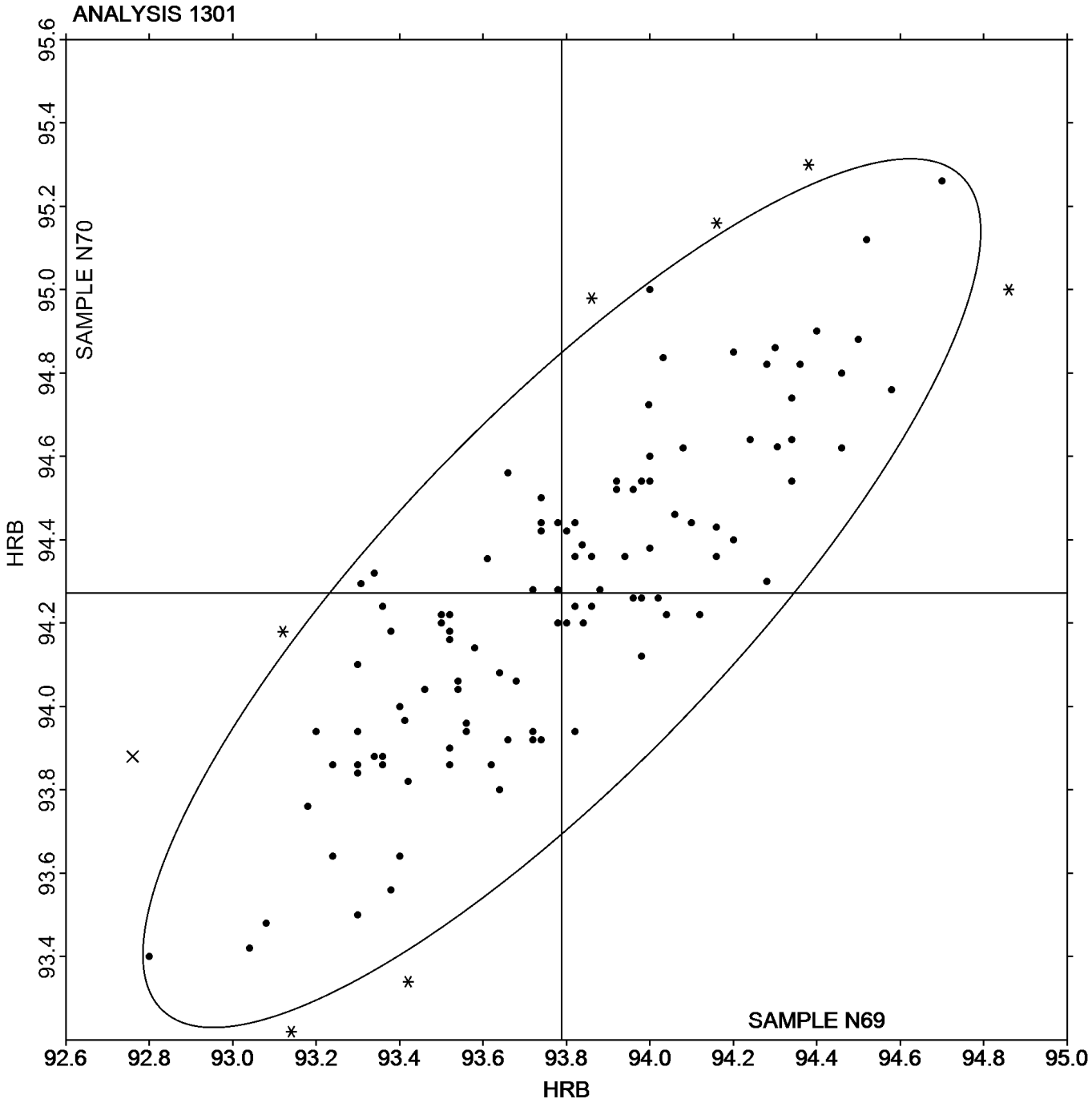
CNK42X (X) - Data for both samples are low. Possible Systematic Error. Inconsistent within the determinations of both samples.

DGHB7A (X) - Data for both samples are high. Possible Systematic Error.

XKBXPY (X) - Data for sample N69 are low. Inconsistent within the determinations of sample N69.

ZGY9UR (X) - Data for sample N69 are low.

SAMPLE N69	SAMPLE N70
93.79 HRB	94.27 HRB



		Sample N69			Sample N70		
WebCode	Data Flag	Lab Mean	Diff. from Grand Mean	CPV	Lab Mean	Diff. from Grand Mean	CPV
2GKXZT	*	95.24	1.18	2.05	95.14	0.57	1.02
3L7ACZ		94.48	0.42	0.73	95.04	0.47	0.84
3RC47W		93.86	-0.20	-0.35	94.42	-0.15	-0.26
43NWT9		94.52	0.46	0.80	94.82	0.25	0.45
4434EQ		94.16	0.10	0.17	94.12	-0.45	-0.79
4B2Q7Q		95.30	1.24	2.15	95.86	1.29	2.30
4BMFCR		94.54	0.48	0.83	94.90	0.33	0.59
4DBQBW		93.80	-0.26	-0.45	94.54	-0.03	-0.04
4RRTNE		93.50	-0.56	-0.97	93.78	-0.79	-1.39
4WMH88		94.34	0.28	0.49	94.62	0.05	0.10
6DMWYL	*	92.80	-1.26	-2.19	94.00	-0.57	-1.00
798JYX		93.90	-0.16	-0.28	94.66	0.09	0.17
7V67NT		94.44	0.38	0.66	94.80	0.23	0.42
7ZHW6G		94.20	0.14	0.24	94.62	0.05	0.10
82L24M		93.10	-0.96	-1.66	94.00	-0.57	-1.00
84CCTV		93.70	-0.36	-0.62	94.40	-0.17	-0.29
8G3ZAN		94.34	0.28	0.49	94.68	0.11	0.20
8TRZGH		94.22	0.16	0.28	94.73	0.16	0.29
93CQGF		93.70	-0.36	-0.62	94.50	-0.07	-0.12
9A9N4H		94.00	-0.06	-0.10	94.80	0.23	0.42
9AVUQ3		94.70	0.64	1.11	95.06	0.49	0.88
9DV7L3		94.51	0.45	0.78	94.87	0.30	0.54
A4K29C		94.54	0.48	0.83	95.06	0.49	0.88
A6WZ4L		93.59	-0.47	-0.81	93.88	-0.68	-1.21
AFWLEQ		93.24	-0.82	-1.42	93.68	-0.89	-1.57
C2996N		93.00	-1.06	-1.84	93.50	-1.07	-1.89
CCPVGA		94.68	0.62	1.08	94.86	0.29	0.52
CEXZZQ		93.58	-0.48	-0.83	93.86	-0.71	-1.25
CJMKXE		93.86	-0.20	-0.35	94.68	0.11	0.20
CNXXFD		94.00	-0.06	-0.10	95.00	0.43	0.77
CRJEXX		94.96	0.90	1.56	95.56	0.99	1.76
DT9842		93.92	-0.14	-0.24	94.72	0.15	0.27
DZT49B		93.56	-0.50	-0.87	94.38	-0.19	-0.33
EH6AXC		94.14	0.08	0.14	94.44	-0.13	-0.22
EQWRAZ		94.06	0.00	0.00	94.32	-0.25	-0.43
F7QPWG		94.54	0.48	0.83	95.04	0.47	0.84
F862TZ		93.00	-1.06	-1.84	93.60	-0.97	-1.71
FPMXBE	*	92.50	-1.56	-2.71	93.48	-1.09	-1.92
FYR37G		94.02	-0.04	-0.07	94.60	0.03	0.06
G4JUQJ		94.46	0.40	0.70	94.82	0.25	0.45
GHZUEW		93.24	-0.82	-1.42	93.78	-0.79	-1.39
GV7QXY		95.02	0.96	1.67	95.56	0.99	1.76
H2TXVX		93.12	-0.94	-1.63	93.48	-1.09	-1.92
HRF2TC		95.14	1.08	1.87	95.28	0.71	1.27
LCDBMP		93.78	-0.28	-0.49	94.22	-0.35	-0.61
MJ9V6B		94.38	0.32	0.56	94.76	0.19	0.35
NC9V69		93.60	-0.46	-0.80	93.86	-0.71	-1.25

		Sample N69			Sample N70		
WebCode	Data Flag	Lab Mean	Diff. from Grand Mean	CPV	Lab Mean	Diff. from Grand Mean	CPV
NNKXVD		94.24	0.18	0.31	94.94	0.37	0.66
P7YUNC		94.38	0.32	0.56	94.84	0.27	0.49
P7ZW8N		94.10	0.04	0.07	94.42	-0.15	-0.26
PLV9N6	*	93.50	-0.56	-0.97	93.38	-1.19	-2.10
PRG2Z6		94.20	0.14	0.24	94.70	0.13	0.24
QBMZFJ		95.15	1.09	1.89	95.80	1.23	2.19
QXFXBN		94.38	0.32	0.56	94.90	0.33	0.59
R2Z4AB		94.44	0.38	0.66	94.98	0.41	0.74
R8F3HV		93.92	-0.14	-0.24	94.80	0.23	0.42
RUF4WJ		93.75	-0.31	-0.53	93.81	-0.75	-1.33
U9N2PA		93.64	-0.42	-0.73	94.22	-0.35	-0.61
UJMRBG		94.72	0.66	1.15	95.26	0.69	1.23
V3GK28		94.32	0.26	0.45	94.80	0.23	0.42
VU3W4Y		93.82	-0.24	-0.42	94.48	-0.09	-0.15
VU6QHX	*	94.64	0.58	1.01	95.80	1.23	2.19
WWPVU3		93.66	-0.40	-0.69	94.02	-0.55	-0.97
XJEUPV		94.32	0.26	0.45	94.70	0.13	0.24
XL29E7		94.20	0.14	0.24	94.78	0.21	0.38
XUWBH3		94.02	-0.04	-0.07	94.52	-0.05	-0.08
YAK3HU		93.78	-0.28	-0.49	94.40	-0.17	-0.29
YN6LDJ		94.46	0.40	0.69	95.04	0.47	0.84
YQCTL4		94.04	-0.02	-0.03	94.70	0.13	0.24
Z98QFH		93.36	-0.70	-1.21	94.00	-0.57	-1.00
ZM9KVX		94.20	0.14	0.24	94.70	0.13	0.24
ZRKBCL		93.72	-0.34	-0.59	94.48	-0.09	-0.15
ZYLHZ3		94.10	0.04	0.07	94.00	-0.57	-1.00

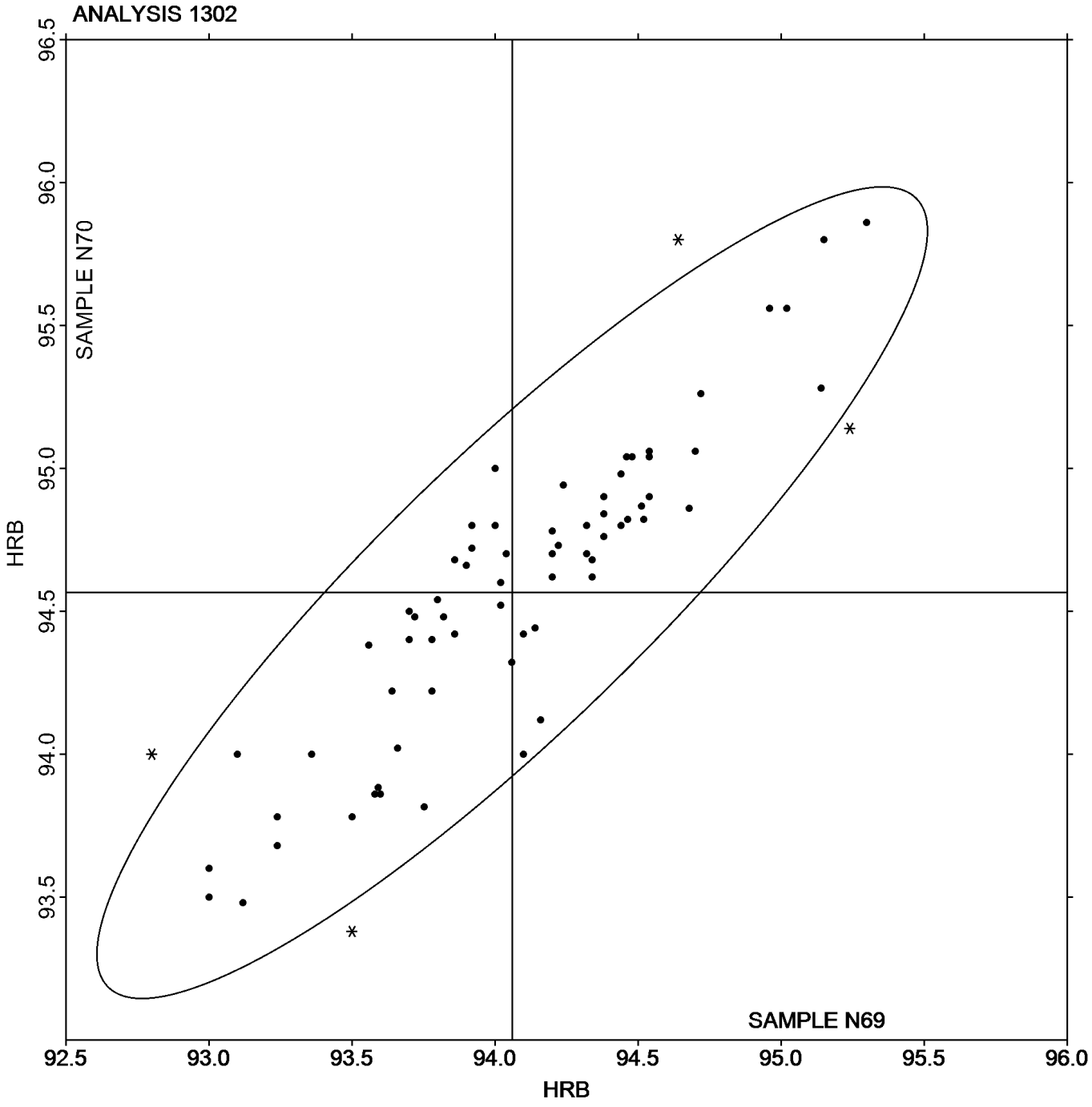
Summary Statistics

	Sample N69		Sample N70	
Grand Means	94.06	HRB	94.57	HRB
Stnd Dev Btwn Labs	0.58	HRB	0.56	HRB

Samples N69, N70 : Steel, Steel

Statistics based on 73 of 73 reporting participants

SAMPLE N69	SAMPLE N70
94.06 HRB	94.57 HRB



		Sample S69			Sample S70		
WebCode	Data Flag	Lab Mean	Diff. from Grand Mean	CPV	Lab Mean	Diff. from Grand Mean	CPV
2KJ9VT		434.20	-0.38	-0.02	463.80	4.15	0.19
32KKWG		445.40	10.82	0.59	470.40	10.75	0.48
33UMQT		440.40	5.82	0.32	459.00	-0.65	-0.03
3FHP7Y		428.20	-6.38	-0.35	429.80	-29.85	-1.34
3H7BQA		445.80	11.22	0.62	452.80	-6.85	-0.31
3UFYPY		425.18	-9.40	-0.52	467.04	7.39	0.33
4434EQ	*	382.00	-52.58	-2.89	409.60	-50.05	-2.24
4CWA8R		431.00	-3.58	-0.20	453.00	-6.65	-0.30
4E7ACY		429.40	-5.18	-0.28	441.60	-18.05	-0.81
4EZ6TF		414.80	-19.78	-1.09	461.32	1.67	0.07
4PZRKC		440.40	5.82	0.32	483.40	23.75	1.06
4YBU7D		446.60	12.02	0.66	482.40	22.75	1.02
627CFP		435.80	1.22	0.07	456.00	-3.65	-0.16
6NKVQR		420.60	-13.98	-0.77	459.80	0.15	0.01
6T2ZPM		418.00	-16.58	-0.91	451.00	-8.65	-0.39
8BRTL6		463.75	29.18	1.60	495.06	35.41	1.58
8TRZGH		447.80	13.22	0.73	478.00	18.35	0.82
8VXLAN	*	403.60	-30.98	-1.70	461.00	1.35	0.06
98PAZH		435.80	1.22	0.07	458.60	-1.05	-0.05
9E6BX7		428.40	-6.18	-0.34	455.80	-3.85	-0.17
9JKHL6		431.60	-2.98	-0.16	460.20	0.55	0.02
9QK6BK		450.00	15.42	0.85	473.40	13.75	0.61
9ZLKZP		458.72	24.14	1.32	476.04	16.39	0.73
A7RJ6M		462.00	27.42	1.50	508.00	48.35	2.16
AKPP24		450.60	16.02	0.88	483.60	23.95	1.07
AP49K7		432.84	-1.74	-0.10	464.06	4.41	0.20
AV7GMR		455.40	20.82	1.14	484.40	24.75	1.11
B372M3		399.00	-35.58	-1.95	408.00	-51.65	-2.31
BBJZ6K		426.00	-8.58	-0.47	438.40	-21.25	-0.95
BP4HXN		443.20	8.62	0.47	474.00	14.35	0.64
CTVAJP		425.20	-9.38	-0.51	468.20	8.55	0.38
D482FX		416.40	-18.18	-1.00	457.80	-1.85	-0.08
D8QVG6		396.00	-38.58	-2.12	409.60	-50.05	-2.24
DGHB7A		444.80	10.22	0.56	467.60	7.95	0.36
DKGRGH		436.96	2.38	0.13	466.05	6.40	0.29
DQN9XJ		450.78	16.20	0.89	471.54	11.89	0.53
DZT49B		439.92	5.34	0.29	471.12	11.47	0.51
E2G2ZE		434.40	-0.18	-0.01	469.60	9.95	0.44
EFHXWL		439.40	4.82	0.26	437.20	-22.45	-1.00
F3CVGJ		445.20	10.62	0.58	469.40	9.75	0.44
F862TZ		464.60	30.02	1.65	500.00	40.35	1.80
F8KKDX		434.98	0.40	0.02	435.74	-23.91	-1.07
F9CNZD		440.00	5.42	0.30	476.20	16.55	0.74
FD7H3K		417.00	-17.58	-0.96	463.00	3.35	0.15
G4JUQJ		420.67	-13.91	-0.76	434.00	-25.65	-1.15
GMFXUE		413.00	-21.58	-1.18	424.20	-35.45	-1.59
H4U36B		432.80	-1.78	-0.10	425.60	-34.05	-1.52

		Sample S69			Sample S70		
WebCode	Data Flag	Lab Mean	Diff. from Grand Mean	CPV	Lab Mean	Diff. from Grand Mean	CPV
H9M6CH	X	442.00	7.42	0.41	421.60	-38.05	-1.70
HX4QBZ		449.80	15.22	0.84	478.20	18.55	0.83
J4BEN3		439.20	4.62	0.25	470.00	10.35	0.46
J8BMTC		443.60	9.02	0.50	471.40	11.75	0.53
JP6KV6		413.52	-21.06	-1.16	445.46	-14.19	-0.63
JRGZP6		425.60	-8.98	-0.49	453.40	-6.25	-0.28
JTA42D		442.20	7.62	0.42	467.20	7.55	0.34
JTTWUA		431.80	-2.78	-0.15	453.20	-6.45	-0.29
KJMALA		426.10	-8.48	-0.47	419.70	-39.95	-1.79
KMWRFW		457.40	22.82	1.25	469.40	9.75	0.44
KUMXGD	*	384.18	-50.40	-2.77	407.80	-51.85	-2.32
KUZC2F	*	438.60	4.02	0.22	426.00	-33.65	-1.50
LVBV6A	X	447.20	12.62	0.69	422.40	-37.25	-1.67
MLZUJA		440.40	5.82	0.32	471.00	11.35	0.51
MNMDK8		435.40	0.82	0.05	429.60	-30.05	-1.34
MYL9FG		426.60	-7.98	-0.44	459.40	-0.25	-0.01
NEW9PC		472.80	38.22	2.10	508.00	48.35	2.16
NPVXR8	*	392.80	-41.78	-2.29	439.20	-20.45	-0.91
NTCEW6	*	485.40	50.82	2.79	519.20	59.55	2.66
NXLM7M		460.40	25.82	1.42	470.60	10.95	0.49
P7W9QB	X	447.40	12.82	0.70	424.40	-35.25	-1.58
P7ZW8N		423.00	-11.58	-0.64	453.00	-6.65	-0.30
P93RQR	X	424.48	-10.10	-0.55	509.02	49.37	2.21
PVZ7N3		426.36	-8.22	-0.45	446.44	-13.21	-0.59
Q7EFRL		443.18	8.60	0.47	454.54	-5.11	-0.23
QT3ET8	X	388.80	-45.78	-2.51	460.40	0.75	0.03
R6APU3		453.20	18.62	1.02	475.20	15.55	0.70
R82JXX		421.80	-12.78	-0.70	431.20	-28.45	-1.27
R8F3HV		432.74	-1.84	-0.10	461.62	1.97	0.09
REZ3YT		420.00	-14.58	-0.80	432.00	-27.65	-1.24
RHZET9		435.40	0.82	0.05	459.20	-0.45	-0.02
RKTX68		453.60	19.02	1.04	470.80	11.15	0.50
T3693Q		447.00	12.42	0.68	485.80	26.15	1.17
T6VDY4		400.68	-33.90	-1.86	422.82	-36.83	-1.65
TANEYW		431.20	-3.38	-0.19	459.00	-0.65	-0.03
TN6AET		433.00	-1.58	-0.09	456.60	-3.05	-0.14
TV7MBQ		436.80	2.22	0.12	468.00	8.35	0.37
UXRLB7		418.00	-16.58	-0.91	426.20	-33.45	-1.50
V28HAG		414.20	-20.38	-1.12	437.40	-22.25	-1.00
VKXX6X		453.00	18.42	1.01	484.40	24.75	1.11
VU3W4Y		439.20	4.62	0.25	476.40	16.75	0.75
VWT8R7		457.39	22.81	1.25	496.28	36.63	1.64
VWVTQ8		433.20	-1.38	-0.08	455.00	-4.65	-0.21
W48D44		428.96	-5.62	-0.31	452.57	-7.08	-0.32
W6ZWF3	X	481.60	47.02	2.58	552.60	92.95	4.16
WM3W4W		420.60	-13.98	-0.77	441.80	-17.85	-0.80
WPNU8T		409.40	-25.18	-1.38	451.40	-8.25	-0.37

Analysis 1321

Microhardness: Knoop Indenters (500 gf)
ASTM E384

WebCode	Data Flag	Sample S69 Lab Mean	Sample S69 Diff. from Grand Mean	Sample S69 CPV	Sample S70 Lab Mean	Sample S70 Diff. from Grand Mean	Sample S70 CPV
WRQLHE		439.60	5.02	0.28	469.76	10.11	0.45
X8L4D6		437.80	3.22	0.18	460.76	1.11	0.05
YAK3HU		466.60	32.02	1.76	489.40	29.75	1.33
YXALUX		439.00	4.42	0.24	471.20	11.55	0.52
ZC78RC		441.80	7.22	0.40	466.74	7.09	0.32
ZGY9UR		436.40	1.82	0.10	457.60	-2.05	-0.09
ZM9KVX		429.40	-5.18	-0.28	468.40	8.75	0.39
ZNJAA4		452.60	18.02	0.99	480.20	20.55	0.92

Summary Statistics

	Sample S69		Sample S70	
Grand Means	434.58	HK 500 gf	459.65	HK 500 gf
Stnd Dev Btwn Labs	18.22	HK 500 gf	22.36	HK 500 gf

Samples S69, S70 : Steel, Steel

Statistics based on 96 of 102 reporting participants

Comments on Assigned Data Flags for Test #1321

H9M6CH (X) - Inconsistent in testing between samples.

LVBV6A (X) - Inconsistent in testing between samples.

P7W9QB (X) - Inconsistent in testing between samples.

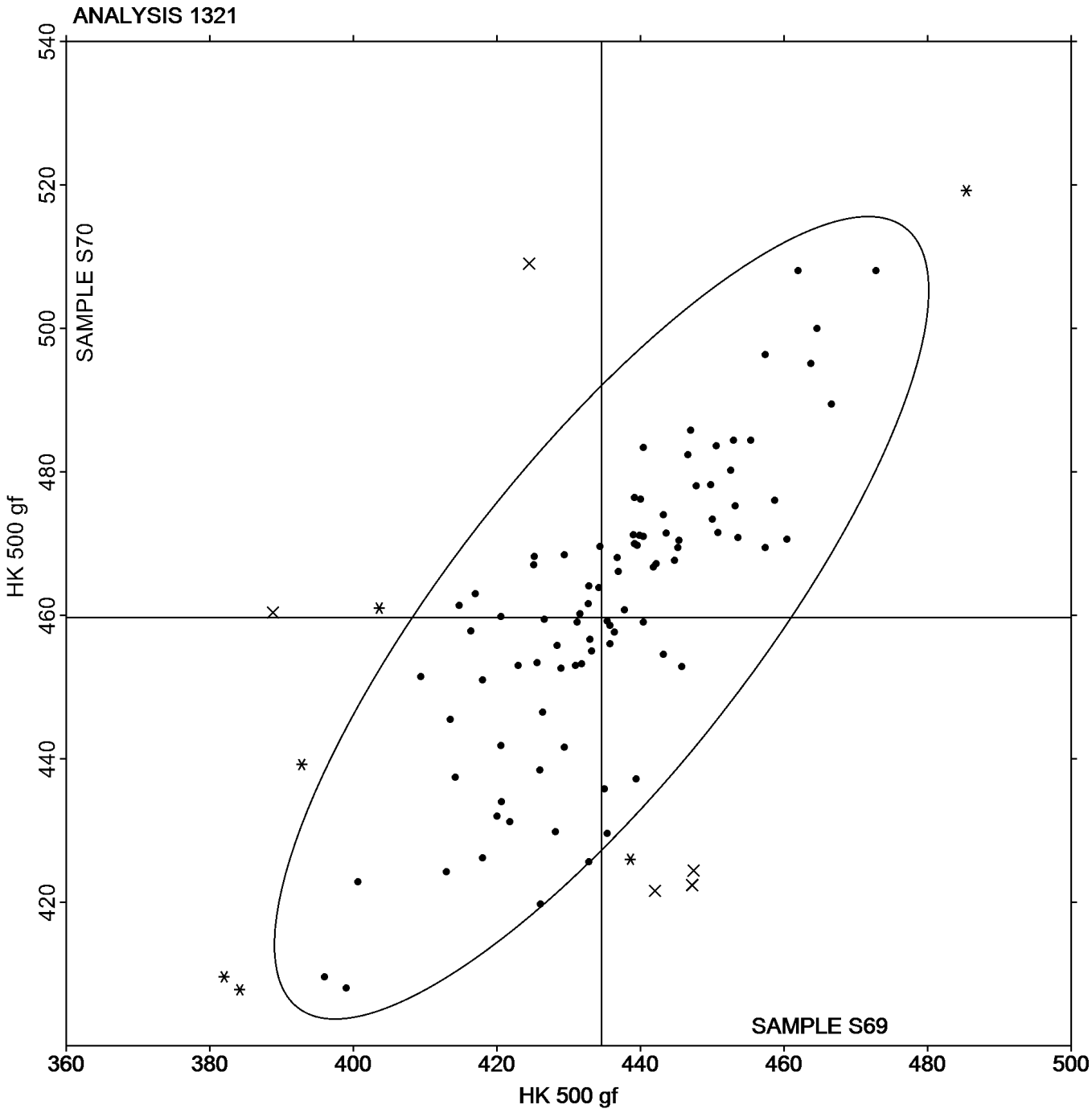
P93RQR (X) - Inconsistent in testing between samples.

QT3ET8 (X) - Inconsistent in testing between samples.

W6ZWF3 (X) - Data for sample S70 are high. Inconsistent within the determinations of both samples.

SAMPLE S69
434.58 HK 500 gf

SAMPLE S70
459.65 HK 500 gf



		Sample S69			Sample S70		
WebCode	Data Flag	Lab Mean	Diff. from Grand Mean	CPV	Lab Mean	Diff. from Grand Mean	CPV
2KJ9VT		444.20	-4.54	-0.23	478.40	3.72	0.16
33UMQT		451.20	2.46	0.12	479.60	4.92	0.21
3FHP7Y		446.80	-1.94	-0.10	434.40	-40.28	-1.76
3H7BQA		444.80	-3.94	-0.20	487.80	13.12	0.57
4CWA8R		441.80	-6.94	-0.34	463.00	-11.68	-0.51
4E7ACY		423.80	-24.94	-1.24	439.40	-35.28	-1.54
4EZ6TF		437.74	-11.00	-0.55	472.94	-1.74	-0.08
4YBU7D		462.80	14.06	0.70	486.40	11.72	0.51
627CFP		447.20	-1.54	-0.08	464.60	-10.08	-0.44
6NKVQR		436.00	-12.74	-0.63	477.00	2.32	0.10
6T2ZPM		436.80	-11.94	-0.59	477.00	2.32	0.10
8BRTL6	*	499.53	50.79	2.53	528.23	53.55	2.33
8TRZGH		449.60	0.86	0.04	481.60	6.92	0.30
8VXLAN		425.00	-23.74	-1.18	468.00	-6.68	-0.29
9QK6BK		462.20	13.46	0.67	495.00	20.32	0.89
A7RJ6M		454.80	6.06	0.30	485.00	10.32	0.45
AKPP24		463.80	15.06	0.75	495.00	20.32	0.89
AP49K7		457.28	8.54	0.42	488.20	13.52	0.59
AV7GMR		456.80	8.06	0.40	485.20	10.52	0.46
B372M3		413.80	-34.94	-1.74	441.80	-32.88	-1.43
BBJZ6K		437.20	-11.54	-0.57	448.20	-26.48	-1.15
CTVAJP		437.40	-11.34	-0.56	484.60	9.92	0.43
D8QVG6		404.60	-44.14	-2.20	439.80	-34.88	-1.52
DKGRGH		452.12	3.38	0.17	483.61	8.93	0.39
DQN9XJ		477.62	28.88	1.44	491.36	16.68	0.73
DZT49B		451.04	2.30	0.11	469.70	-4.98	-0.22
E2G2ZE		456.80	8.06	0.40	486.60	11.92	0.52
F3CVGJ		455.80	7.06	0.35	483.60	8.92	0.39
F862TZ		470.20	21.46	1.07	509.20	34.52	1.50
F8KKDX		451.72	2.98	0.15	454.12	-20.56	-0.90
F9CNZD	X	443.20	-5.54	-0.28	553.60	78.92	3.44
FD7H3K		418.20	-30.54	-1.52	477.60	2.92	0.13
G4JUQJ		421.67	-27.07	-1.35	447.00	-27.68	-1.21
GMFXUE		422.80	-25.94	-1.29	426.60	-48.08	-2.10
H4U36B	*	465.80	17.06	0.85	446.60	-28.08	-1.22
H9M6CH		445.60	-3.14	-0.16	431.80	-42.88	-1.87
HX4QBZ		468.60	19.86	0.99	487.80	13.12	0.57
JTA42D		453.40	4.66	0.23	476.60	1.92	0.08
KJMALA		424.96	-23.78	-1.18	435.76	-38.92	-1.70
KMWRFW		468.20	19.46	0.97	484.20	9.52	0.41
KUZC2F		448.40	-0.34	-0.02	443.40	-31.28	-1.36
LVBV6A	X	471.60	22.86	1.14	423.40	-51.28	-2.23
NEW9PC	*	410.20	-38.54	-1.92	480.40	5.72	0.25
NXLM7M		474.00	25.26	1.26	508.40	33.72	1.47
P7W9QB		447.00	-1.74	-0.09	440.80	-33.88	-1.48
P7ZW8N		442.60	-6.14	-0.31	478.40	3.72	0.16
P93RQR		441.80	-6.94	-0.34	494.16	19.48	0.85

		Sample S69			Sample S70		
WebCode	Data Flag	Lab Mean	Diff. from Grand Mean	CPV	Lab Mean	Diff. from Grand Mean	CPV
QT3ET8	*	405.20	-43.54	-2.17	475.60	0.92	0.04
R82JXX		432.40	-16.34	-0.81	444.40	-30.28	-1.32
R8F3HV		450.46	1.72	0.09	471.86	-2.82	-0.12
REZ3YT		426.00	-22.74	-1.13	441.40	-33.28	-1.45
RKTX68		487.20	38.46	1.91	501.80	27.12	1.18
T3693Q		444.60	-4.14	-0.21	487.80	13.12	0.57
T6VDY4		432.22	-16.52	-0.82	452.76	-21.92	-0.96
TV7MBQ	*	500.40	51.66	2.57	525.40	50.72	2.21
VKXX6X		455.80	7.06	0.35	493.20	18.52	0.81
VU3W4Y		448.00	-0.74	-0.04	480.80	6.12	0.27
VWT8R7		458.82	10.08	0.50	499.69	25.01	1.09
VWVTQ8		437.00	-11.74	-0.58	464.00	-10.68	-0.47
W48D44		459.44	10.71	0.53	462.29	-12.39	-0.54
W6ZWF3		478.00	29.26	1.46	505.60	30.92	1.35
X8L4D6		448.92	0.18	0.01	487.34	12.66	0.55
YAK3HU		480.40	31.66	1.57	501.40	26.72	1.16
YXALUX		456.20	7.46	0.37	486.80	12.12	0.53
ZC78RC		445.26	-3.48	-0.17	469.82	-4.86	-0.21
ZGY9UR		453.00	4.26	0.21	472.20	-2.48	-0.11
ZNJAA4		464.80	16.06	0.80	491.40	16.72	0.73

Summary Statistics

	Sample S69		Sample S70	
Grand Means	448.74	HK 200 gf	474.68	HK 200 gf
Stnd Dev Btwn Labs	20.11	HK 200 gf	22.95	HK 200 gf

Samples S69, S70 : Steel, Steel

Statistics based on 65 of 67 reporting participants

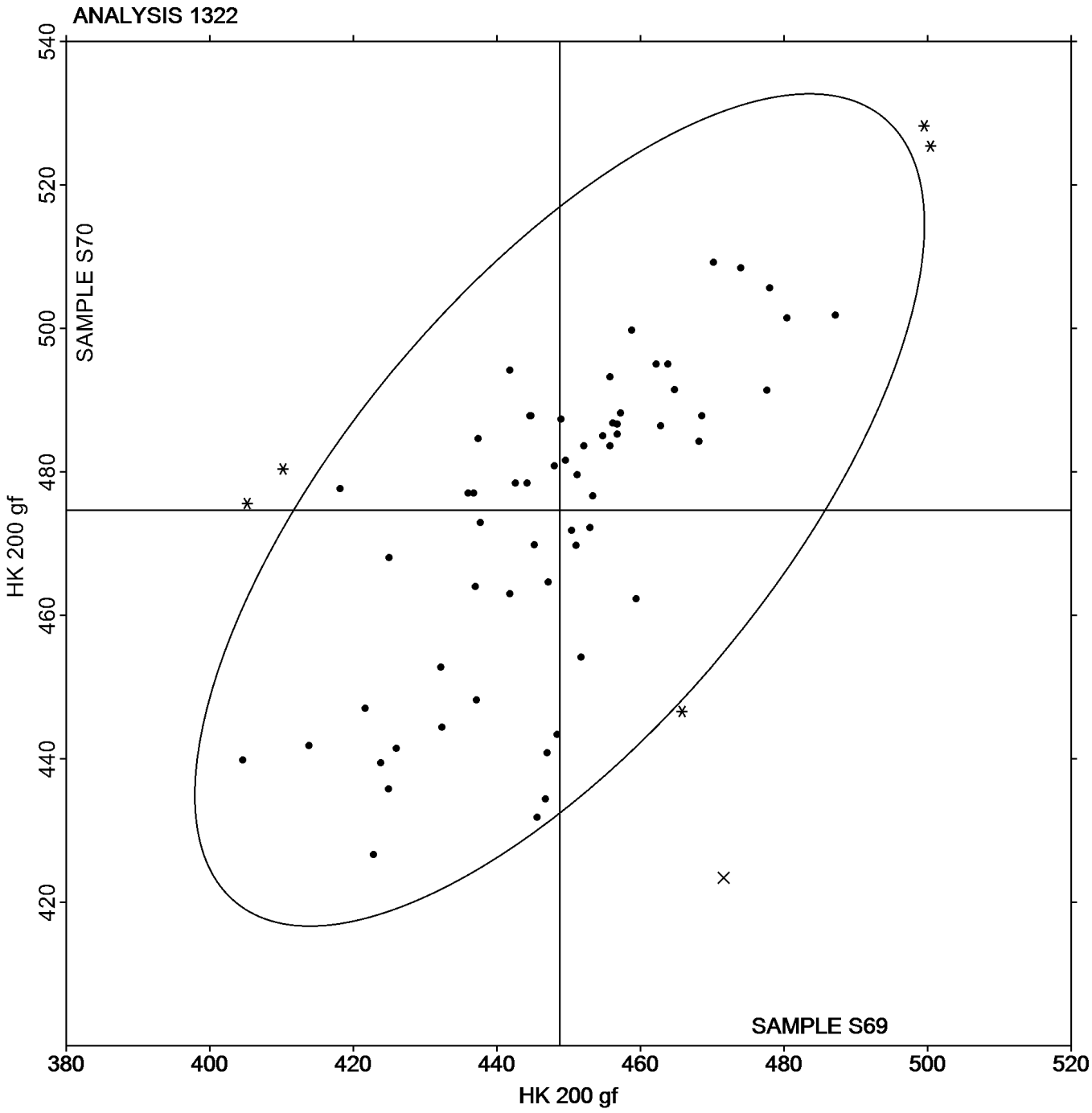
Comments on Assigned Data Flags for Test #1322

F9CNZD (X) - Data for sample S70 are high.

LVBV6A (X) - Inconsistent in testing between samples.

SAMPLE S69
448.74 HK 200 gf

SAMPLE S70
474.68 HK 200 gf



		Sample S69			Sample S70		
WebCode	Data Flag	Lab Mean	Diff. from Grand Mean	CPV	Lab Mean	Diff. from Grand Mean	CPV
2KJ9VT		409.80	-2.84	-0.15	435.20	-6.10	-0.29
2MKL9K		414.04	1.40	0.08	424.00	-17.30	-0.84
2TCQ7V		422.38	9.74	0.52	457.72	16.42	0.79
33UMQT		423.80	11.16	0.60	448.20	6.90	0.33
3BNWRB		426.80	14.16	0.76	466.40	25.10	1.21
3FHP7Y	X	410.80	-1.84	-0.10	407.20	-34.10	-1.65
3H7BQA		412.40	-0.24	-0.01	429.00	-12.30	-0.59
3JHXDV		390.40	-22.24	-1.20	439.80	-1.50	-0.07
3L3WFR		405.26	-7.38	-0.40	455.32	14.02	0.68
3UFYPY		414.82	2.18	0.12	440.90	-0.40	-0.02
3YYTTR		385.60	-27.04	-1.45	406.80	-34.50	-1.67
4434EQ	*	363.80	-48.84	-2.63	400.60	-40.70	-1.96
4CCTUA		430.12	17.48	0.94	461.00	19.70	0.95
4CWA8R		413.60	0.96	0.05	446.80	5.50	0.27
4E7ACY		396.00	-16.64	-0.89	419.40	-21.90	-1.06
4EZ6TF		416.92	4.28	0.23	447.26	5.96	0.29
4KTZYU		427.00	14.36	0.77	453.20	11.90	0.57
4YBU7D		429.60	16.96	0.91	458.80	17.50	0.84
627CFP		417.00	4.36	0.23	438.20	-3.10	-0.15
6JQY4L		422.24	9.60	0.52	447.12	5.82	0.28
6NKVQR		388.60	-24.04	-1.29	434.00	-7.30	-0.35
6RLRKT		439.22	26.58	1.43	460.40	19.10	0.92
6T2ZPM		416.60	3.96	0.21	446.00	4.70	0.23
8E9FYA		418.80	6.16	0.33	440.40	-0.90	-0.04
8TRZGH		423.60	10.96	0.59	462.20	20.90	1.01
9DV7L3	*	358.60	-54.04	-2.91	383.20	-58.10	-2.80
9E6BX7		419.00	6.36	0.34	449.60	8.30	0.40
9JKHL6		411.60	-1.04	-0.06	438.80	-2.50	-0.12
9NU2FR		411.00	-1.64	-0.09	437.20	-4.10	-0.20
9QK6BK		425.40	12.76	0.69	457.60	16.30	0.79
9W7Z8H		415.20	2.56	0.14	450.20	8.90	0.43
A7RJ6M		421.80	9.16	0.49	466.80	25.50	1.23
AB4GLM	X	388.54	-24.10	-1.30	386.88	-54.42	-2.63
AKPP24		430.60	17.96	0.97	461.00	19.70	0.95
AV7GMR		424.20	11.56	0.62	451.60	10.30	0.50
B372M3	*	365.40	-47.24	-2.54	388.00	-53.30	-2.57
BBJZ6K		416.80	4.16	0.22	431.00	-10.30	-0.50
BEFWKD	X	367.44	-45.20	-2.43	421.34	-19.96	-0.96
BG49JH		407.84	-4.80	-0.26	433.66	-7.64	-0.37
BP4HXN		424.60	11.96	0.64	454.80	13.50	0.65
CHXDE3		377.60	-35.04	-1.88	407.20	-34.10	-1.65
CTVAJP		414.20	1.56	0.08	463.60	22.30	1.08
D482FX		387.40	-25.24	-1.36	421.20	-20.10	-0.97
D7YZUW		407.40	-5.24	-0.28	445.00	3.70	0.18
D8QVG6	*	358.80	-53.84	-2.90	377.40	-63.90	-3.08
DKGRGH		425.36	12.72	0.68	447.41	6.11	0.29
DKJFZG		410.32	-2.32	-0.12	447.72	6.42	0.31

		Sample S69			Sample S70		
WebCode	Data Flag	Lab Mean	Diff. from Grand Mean	CPV	Lab Mean	Diff. from Grand Mean	CPV
DZT49B		412.32	-0.32	-0.02	437.12	-4.18	-0.20
E2G2ZE		421.80	9.16	0.49	454.80	13.50	0.65
EEQPWH		400.60	-12.04	-0.65	449.30	8.00	0.39
EFHXWL		415.60	2.96	0.16	437.20	-4.10	-0.20
EL8BXA		432.70	20.06	1.08	452.92	11.62	0.56
F3CVGJ		428.00	15.36	0.83	452.60	11.30	0.55
F862TZ		419.40	6.76	0.36	460.60	19.30	0.93
F8KKDX	*	415.28	2.64	0.14	414.96	-26.34	-1.27
F9CNZD		411.80	-0.84	-0.04	452.60	11.30	0.55
FD7H3K	*	385.20	-27.44	-1.48	433.60	-7.70	-0.37
FRALME		371.40	-41.24	-2.22	401.80	-39.50	-1.91
G2AQW8	*	368.60	-44.04	-2.37	414.20	-27.10	-1.31
G2U8CA		429.00	16.36	0.88	454.20	12.90	0.62
G4JUQJ		388.00	-24.64	-1.32	411.00	-30.30	-1.46
G6BQFC		413.04	0.40	0.02	429.58	-11.72	-0.57
GBLLFF		435.60	22.96	1.23	474.40	33.10	1.60
GHZUEW		426.02	13.38	0.72	459.16	17.86	0.86
GMFXUE		389.20	-23.44	-1.26	401.40	-39.90	-1.93
GTGE2E	X	44.20	-368.44	-19.81	47.50	-393.80	-19.00
GY62UX		416.60	3.96	0.21	443.40	2.10	0.10
H2TXVX		425.80	13.16	0.71	469.00	27.70	1.34
H4U36B	X	403.80	-8.84	-0.48	397.60	-43.70	-2.11
H9M6CH		420.20	7.56	0.41	432.60	-8.70	-0.42
HBFPNG		424.22	11.58	0.62	461.66	20.36	0.98
HPVWG8		428.34	15.70	0.84	462.88	21.58	1.04
HX4QBZ		430.00	17.36	0.93	455.00	13.70	0.66
J4BEN3		406.80	-5.84	-0.31	440.80	-0.50	-0.02
J8BMTC	X	443.20	30.56	1.64	422.00	-19.30	-0.93
JC4RKV		422.80	10.16	0.55	446.40	5.10	0.25
JP6KV6		398.48	-14.16	-0.76	427.16	-14.14	-0.68
JTA42D		414.60	1.96	0.11	433.40	-7.90	-0.38
KMWRFW		427.40	14.76	0.79	445.60	4.30	0.21
KUMXGD	*	360.00	-52.64	-2.83	387.62	-53.68	-2.59
KUZC2F	X	416.40	3.76	0.20	408.80	-32.50	-1.57
L2FTRG		407.20	-5.44	-0.29	437.00	-4.30	-0.21
LVBV6A	X	424.40	11.76	0.63	403.00	-38.30	-1.85
MC9DPY	X	428.15	15.51	0.83	420.07	-21.23	-1.02
MLFD47	*	366.00	-46.64	-2.51	384.40	-56.90	-2.75
MLZUJA		418.20	5.56	0.30	454.00	12.70	0.61
MYL9FG		416.60	3.96	0.21	450.00	8.70	0.42
MYQGTB		416.22	3.58	0.19	445.30	4.00	0.19
N7JH4L		421.20	8.56	0.46	448.00	6.70	0.32
ND72QA		420.20	7.56	0.41	448.40	7.10	0.34
NEW9PC		408.60	-4.04	-0.22	454.80	13.50	0.65
NXLM7M		424.20	11.56	0.62	453.20	11.90	0.57
P7W9QB	X	417.80	5.16	0.28	405.60	-35.70	-1.72
P7ZW8N		395.80	-16.84	-0.91	418.60	-22.70	-1.10

		Sample S69			Sample S70		
WebCode	Data Flag	Lab Mean	Diff. from Grand Mean	CPV	Lab Mean	Diff. from Grand Mean	CPV
P93RQR		410.08	-2.56	-0.14	442.58	1.28	0.06
PBUNLD		442.40	29.76	1.60	484.80	43.50	2.10
PDVY9Z		435.48	22.84	1.23	466.70	25.40	1.23
PLV9N6		387.00	-25.64	-1.38	397.60	-43.70	-2.11
PVZ7N3		410.18	-2.46	-0.13	425.82	-15.48	-0.75
QM2Z6K		435.00	22.36	1.20	469.20	27.90	1.35
QM6DY9	X	434.80	22.16	1.19	374.60	-66.70	-3.22
QMY9FP		426.24	13.60	0.73	456.82	15.52	0.75
QPNHN7	X	40.68	-371.96	-20.00	45.18	-396.12	-19.12
QT3ET8	X	352.60	-60.04	-3.23	439.20	-2.10	-0.10
QXFXBN	*	369.48	-43.16	-2.32	409.46	-31.84	-1.54
R6APU3		429.80	17.16	0.92	451.20	9.90	0.48
R82JXX		403.40	-9.24	-0.50	432.80	-8.50	-0.41
R8F3HV		418.60	5.96	0.32	441.18	-0.12	-0.01
REZ3YT		416.40	3.76	0.20	436.20	-5.10	-0.25
RHZET9		406.96	-5.68	-0.31	443.96	2.66	0.13
RKTX68		422.40	9.76	0.53	431.00	-10.30	-0.50
T3693Q		437.20	24.56	1.32	479.60	38.30	1.85
T6VDY4		401.38	-11.26	-0.61	429.90	-11.40	-0.55
T8Z3ZR		395.66	-16.98	-0.91	417.20	-24.10	-1.16
TN6AET		408.80	-3.84	-0.21	429.60	-11.70	-0.56
TZJHYZ		441.60	28.96	1.56	460.40	19.10	0.92
U9N2PA		421.26	8.62	0.46	441.08	-0.22	-0.01
UPDZ23		434.60	21.96	1.18	470.20	28.90	1.39
V28HAG		397.40	-15.24	-0.82	431.40	-9.90	-0.48
VDCZHV		421.00	8.36	0.45	450.00	8.70	0.42
VKXX6X		424.60	11.96	0.64	452.60	11.30	0.55
VM2NDX	X	386.00	-26.64	-1.43	455.40	14.10	0.68
VU3W4Y		422.60	9.96	0.54	455.60	14.30	0.69
VWT8R7		438.62	25.98	1.40	472.11	30.81	1.49
VWVTQ8		418.68	6.04	0.33	438.96	-2.34	-0.11
W48D44		423.39	10.75	0.58	436.60	-4.71	-0.23
W6WJKU		410.80	-1.84	-0.10	426.80	-14.50	-0.70
WPNU8T		390.00	-22.64	-1.22	429.80	-11.50	-0.56
WRDR4Z		433.91	21.27	1.14	466.99	25.69	1.24
WRQLHE		417.46	4.82	0.26	443.06	1.76	0.08
WVCB2R	X	403.14	-9.50	-0.51	479.78	38.48	1.86
WWPVU3		411.80	-0.84	-0.04	437.80	-3.50	-0.17
X2H7J7		418.98	6.34	0.34	440.46	-0.84	-0.04
XP3GGV		425.00	12.37	0.67	458.01	16.70	0.81
XXUUK2		411.70	-0.94	-0.05	424.54	-16.76	-0.81
YAK3HU		434.80	22.16	1.19	468.60	27.30	1.32
YXALUX		412.40	-0.24	-0.01	436.00	-5.30	-0.26
YZFTDP		420.80	8.16	0.44	452.80	11.50	0.55
ZC78RC		422.32	9.68	0.52	449.94	8.64	0.42
ZGY9UR		418.40	5.76	0.31	445.60	4.30	0.21
ZM9KVX		409.00	-3.64	-0.20	446.80	5.50	0.27

Summary Statistics

	Sample S69		Sample S70	
Grand Means	412.64	HV 500 gf	441.30	HV 500 gf
Stnd Dev Btwn Labs	18.59	HV 500 gf	20.72	HV 500 gf

Samples S69, S70 : Steel, Steel

Statistics based on 126 of 141 reporting participants

Comments on Assigned Data Flags for Test #1323

3FHP7Y (X) - Inconsistent in testing between samples.

AB4GLM (X) - Inconsistent in testing between samples.

BEFWKD (X) - Inconsistent in testing between samples.

GTGE2E (X) - Extreme data.

H4U36B (X) - Inconsistent in testing between samples.

J8BMTC (X) - Inconsistent in testing between samples.

KUZC2F (X) - Inconsistent in testing between samples.

LVBV6A (X) - Inconsistent in testing between samples.

MC9DPY (X) - Inconsistent in testing between samples.

P7W9QB (X) - Inconsistent in testing between samples.

QM6DY9 (X) - Data for sample S70 are low.

QPNHN7 (X) - Extreme data.

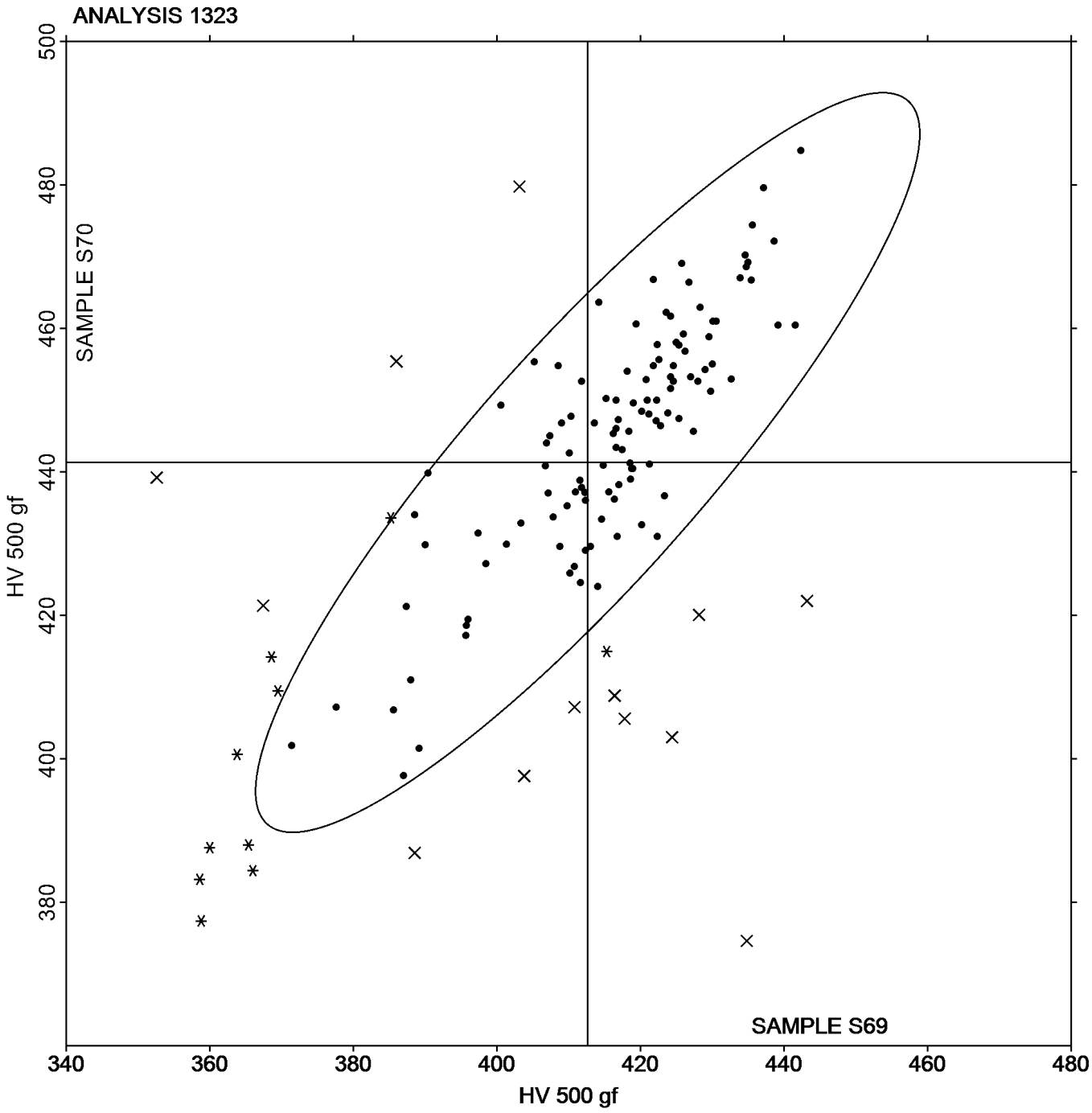
QT3ET8 (X) - Data for sample S69 are low.

VM2NDX (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample S69.

WVCB2R (X) - Inconsistent in testing between samples.

SAMPLE S69
412.64 HV 500 gf

SAMPLE S70
441.30 HV 500 gf



		Sample D69			Sample D70		
WebCode	Data Flag	Lab Mean	Diff. from Grand Mean	CPV	Lab Mean	Diff. from Grand Mean	CPV
27VDBL		321.56	2.44	0.46	368.78	0.08	0.01
2KJ9VT		320.00	0.88	0.16	363.00	-5.70	-0.75
3DC9RG		321.00	1.88	0.35	380.20	11.50	1.52
42FKDT		318.00	-1.12	-0.21	367.60	-1.10	-0.14
4434EQ		318.20	-0.92	-0.17	371.20	2.50	0.33
482FAQ	X	316.64	-2.48	-0.46	346.99	-21.71	-2.87
4RRTNE		316.20	-2.92	-0.55	365.40	-3.30	-0.44
627CFP		315.00	-4.12	-0.77	359.00	-9.70	-1.28
629VJF		320.73	1.60	0.30	370.51	1.81	0.24
6T2ZPM	X	197.02	-122.10	-22.85	228.74	-139.96	-18.49
9AVUQ3		316.40	-2.72	-0.51	361.80	-6.90	-0.91
9DV7L3		318.80	-0.32	-0.06	359.20	-9.50	-1.25
9E6BX7		321.00	1.88	0.35	363.00	-5.70	-0.75
9JKHL6		321.00	1.88	0.35	375.00	6.30	0.83
A9UGFF		308.00	-11.12	-2.08	361.60	-7.10	-0.94
AKPP24		319.00	-0.12	-0.02	369.60	0.90	0.12
AT2PVE		323.00	3.88	0.73	378.40	9.70	1.28
BFCA6K	*	335.00	15.88	2.97	385.40	16.70	2.21
BP4HXN		311.00	-8.12	-1.52	363.00	-5.70	-0.75
CJMKXE		319.40	0.28	0.05	362.40	-6.30	-0.83
CMBYLN	X	290.00	-29.12	-5.45	337.20	-31.50	-4.16
D482FX		313.00	-6.12	-1.15	365.40	-3.30	-0.44
D8QVG6		309.20	-9.92	-1.86	363.00	-5.70	-0.75
DGHB7A		320.80	1.68	0.31	368.00	-0.70	-0.09
DKGRGH		314.20	-4.92	-0.92	362.00	-6.70	-0.88
EEQPWH	*	332.86	13.74	2.57	379.94	11.24	1.49
F862TZ		317.20	-1.92	-0.36	372.40	3.70	0.49
F8JJUK		315.80	-3.32	-0.62	365.80	-2.90	-0.38
F8KKDX		315.80	-3.32	-0.62	367.60	-1.10	-0.14
FCCRW7		329.00	9.88	1.85	380.00	11.30	1.49
FDP6YH	*	306.00	-13.12	-2.46	346.00	-22.70	-3.00
FHMLDW		321.00	1.88	0.35	363.00	-5.70	-0.75
G36CPX		320.40	1.28	0.24	367.00	-1.70	-0.22
G6BQFC		321.00	1.88	0.35	367.00	-1.70	-0.22
GMFXUE		323.40	4.28	0.80	378.00	9.30	1.23
H7YQN8		316.20	-2.92	-0.55	364.20	-4.50	-0.59
HAL97T		321.00	1.88	0.35	375.00	6.30	0.83
HJ86DK		321.00	1.88	0.35	363.00	-5.70	-0.75
HWUJ98		318.60	-0.52	-0.10	373.80	5.10	0.67
J4BEN3		326.00	6.88	1.29	377.00	8.30	1.10
JZ8J4D		320.14	1.02	0.19	368.62	-0.08	-0.01
KJJRGJ		321.00	1.88	0.35	376.60	7.90	1.04
KMWRFW		317.40	-1.72	-0.32	367.40	-1.30	-0.17
KXYQN7		321.00	1.88	0.35	382.80	14.10	1.86
LYWBYC		311.00	-8.12	-1.52	363.00	-5.70	-0.75
MLG3CA		320.40	1.28	0.24	364.40	-4.30	-0.57
MVPJYA		323.36	4.24	0.79	379.62	10.92	1.44

		Sample D69			Sample D70		
WebCode	Data Flag	Lab Mean	Diff. from Grand Mean	CPV	Lab Mean	Diff. from Grand Mean	CPV
MYL9FG		315.80	-3.32	-0.62	359.60	-9.10	-1.20
NEBXTP		321.00	1.88	0.35	376.80	8.10	1.07
NEQYT7		318.20	-0.92	-0.17	362.20	-6.50	-0.86
NJ6RQQ		321.00	1.88	0.35	366.60	-2.10	-0.28
PRG2Z6		316.60	-2.52	-0.47	372.00	3.30	0.44
Q3QBQ2		321.00	1.88	0.35	363.00	-5.70	-0.75
QRWPTJ		313.40	-5.72	-1.07	366.00	-2.70	-0.36
QT3ET8		322.86	3.74	0.70	382.52	13.82	1.83
QXFXBN		315.00	-4.12	-0.77	372.20	3.50	0.46
QYTP6Q		321.00	1.88	0.35	365.40	-3.30	-0.44
R2Z4AB	*	333.60	14.48	2.71	380.52	11.82	1.56
R6APU3		317.80	-1.32	-0.25	365.60	-3.10	-0.41
RZKV83		321.00	1.88	0.35	373.00	4.30	0.57
T7QXM3		327.20	8.08	1.51	382.40	13.70	1.81
T8Z3ZR		317.92	-1.20	-0.23	371.06	2.36	0.31
UXRLB7		317.00	-2.12	-0.40	363.00	-5.70	-0.75
V2L4JH		321.00	1.88	0.35	363.00	-5.70	-0.75
VU3W4Y		321.00	1.88	0.35	365.00	-3.70	-0.49
VWVTQ8		321.00	1.88	0.35	367.80	-0.90	-0.12
W48D44		314.80	-4.32	-0.81	364.00	-4.70	-0.62
W4Q2LX		318.60	-0.52	-0.10	364.00	-4.70	-0.62
WJKL9D	X	340.20	21.08	3.94	384.80	16.10	2.13
WPNM8M		326.80	7.68	1.44	381.00	12.30	1.63
WPNU8T		307.40	-11.72	-2.19	354.00	-14.70	-1.94
WRDR4Z		319.80	0.68	0.13	366.40	-2.30	-0.30
X2H7J7		325.00	5.88	1.10	365.00	-3.70	-0.49
YXALUX		319.00	-0.12	-0.02	363.60	-5.10	-0.67
YYQMXY	*	306.20	-12.92	-2.42	360.60	-8.10	-1.07
Z98QFH		318.40	-0.72	-0.14	372.40	3.70	0.49
ZC78RC		321.00	1.88	0.35	363.00	-5.70	-0.75
ZF7FWM		316.80	-2.32	-0.43	367.00	-1.70	-0.22
ZFPY4F	*	321.80	2.68	0.50	387.00	18.30	2.42
ZGY9UR		322.20	3.08	0.58	370.00	1.30	0.17
ZLVTZW		318.40	-0.72	-0.14	363.60	-5.10	-0.67
ZM9KVX		312.40	-6.72	-1.26	368.80	0.10	0.01
ZNMREU		318.80	-0.32	-0.06	373.20	4.50	0.60

Summary Statistics

	Sample D69		Sample D70	
Grand Means	319.12	HBW	368.70	HBW
Stnd Dev Btwn Labs	5.34	HBW	7.57	HBW

Samples D69, D70 : Steel, Steel

Statistics based on 79 of 83 reporting participants

Samples D69, D70 are hardness test blocks made from steel. The blocks are heat treated to hardness levels specified by CTS.

Comments on Assigned Data Flags for Test #1341

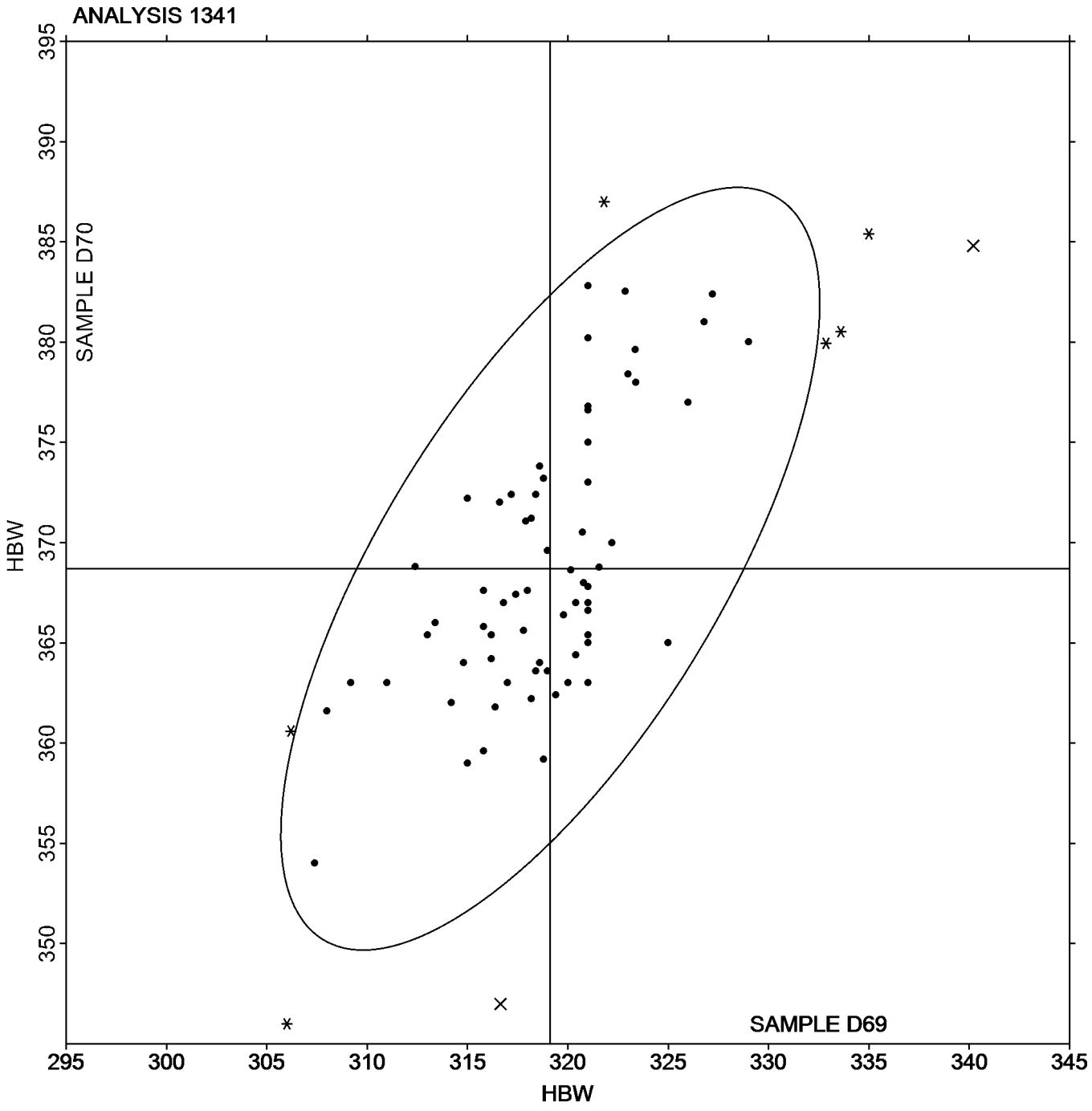
482FAQ (X) - Data for sample D70 are low. Inconsistent within the determinations of both samples.

6T2ZPM (X) - Data for both samples are extremely low.

CMBYLN (X) - Data for both samples are low. Inconsistent within the determinations of sample D70.

WJKL9D (X) - Data for sample D69 are high.

SAMPLE D69	SAMPLE D70
319.12 HBW	368.70 HBW



Analysis 1521

Titanium-based Alloy, HYDROGEN (H)
HYDROGEN (H)

Note: Analyses 1520 (Ti), 1522 (O), and 1523 (N) have been excluded from the report as too few participants reported data to form consensus statistics.

		Sample T69			Sample T70			
WebCode	Data Flag	Lab Mean	Diff. from Grand Mean	CPV	Lab Mean	Diff. from Grand Mean	CPV	Method
49ECDA		0.000800	-0.00065	-0.51	0.00590	-0.00134	-1.14	CO
JTA42D		0.000933	-0.00052	-0.41	0.00700	-0.00024	-0.20	IR
VU3W4Y		0.00337	0.00191	1.50	0.00730	0.00006	0.05	CI
WRDR4Z		0.000710	-0.00074	-0.58	0.00877	0.00152	1.29	CO

Summary Statistics

	Sample T69		Sample T70	
Grand Means	0.00145	Percent	0.00724	Percent
Stnd Dev Btwn Labs	0.00128	Percent	0.00118	Percent

Samples T69, T70 : Ti 6-4 (Gr. 5), Ti 6-4 (Gr. 5)

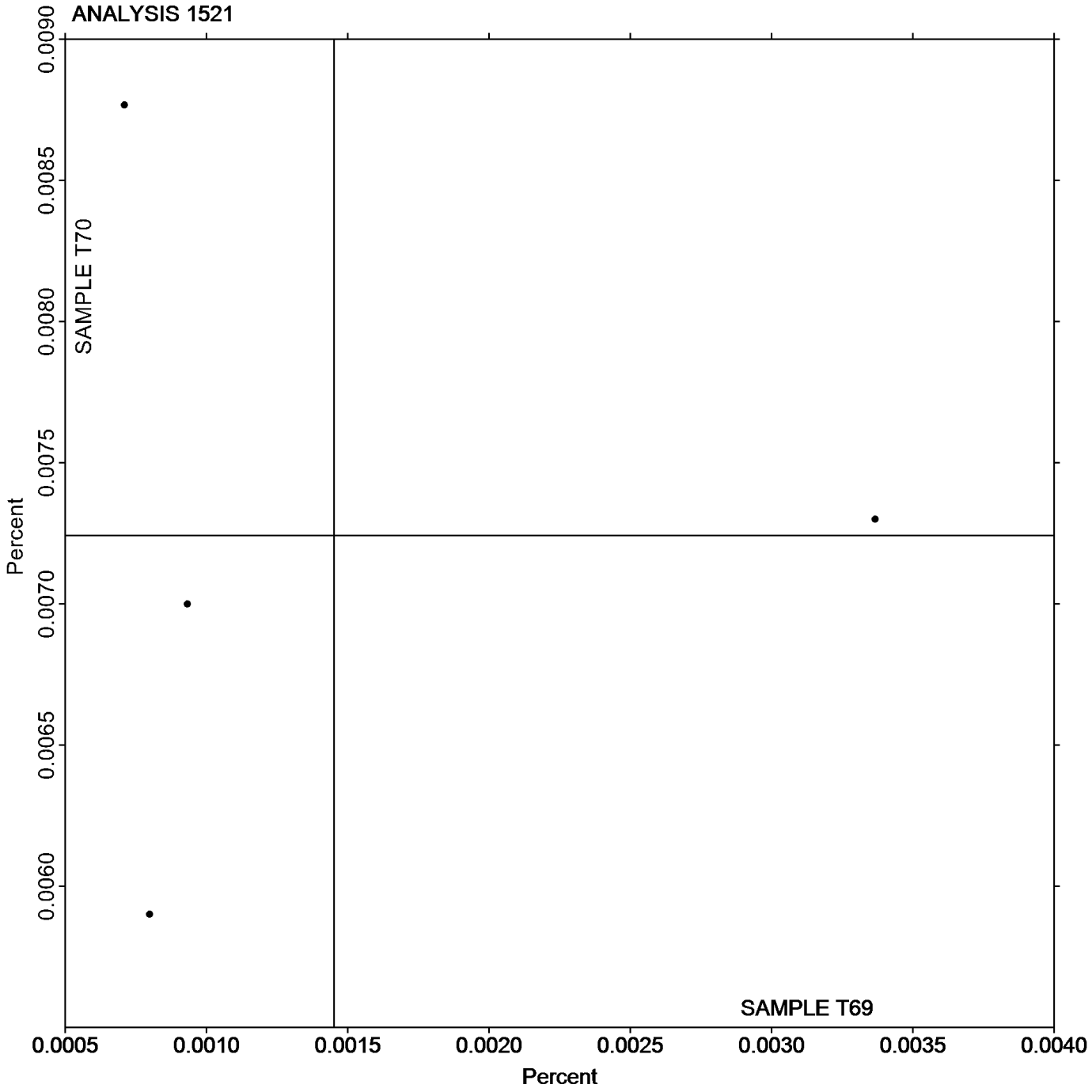
Statistics based on 4 of 4 reporting participants

Key to Method Codes Reported by Participants

CI Combustion / IR
CO Combustion
IR IR (Absorption / Detection)

SAMPLE T69
0.00145 Percent

SAMPLE T70
0.00724 Percent



Analysis 1524

Titanium-based Alloy, ALUMINUM (Al)
ALUMINUM (Al)

Note: Analyses 1520 (Ti), 1522 (O), and 1523 (N) have been excluded from the report as too few participants reported data to form consensus statistics.

		Sample T69			Sample T70			
WebCode	Data Flag	Lab Mean	Diff. from Grand Mean	CPV	Lab Mean	Diff. from Grand Mean	CPV	Method
TTKV8Z		6.517	0.018	0.47	6.214	-0.005	-0.19	OE
VU3W4Y		6.445	-0.055	-1.47	6.190	-0.029	-1.15	IC
WRDR4Z		6.510	0.010	0.27	6.220	0.002	0.06	XR
YZHQKE		6.527	0.027	0.73	6.250	0.032	1.28	OE

Summary Statistics

	Sample T69		Sample T70	
Grand Means	6.500	Percent	6.218	Percent
Stnd Dev Btwn Labs	0.037	Percent	0.025	Percent

Samples T69, T70 : Ti 6-4 (Gr. 5), Ti 6-4 (Gr. 5)

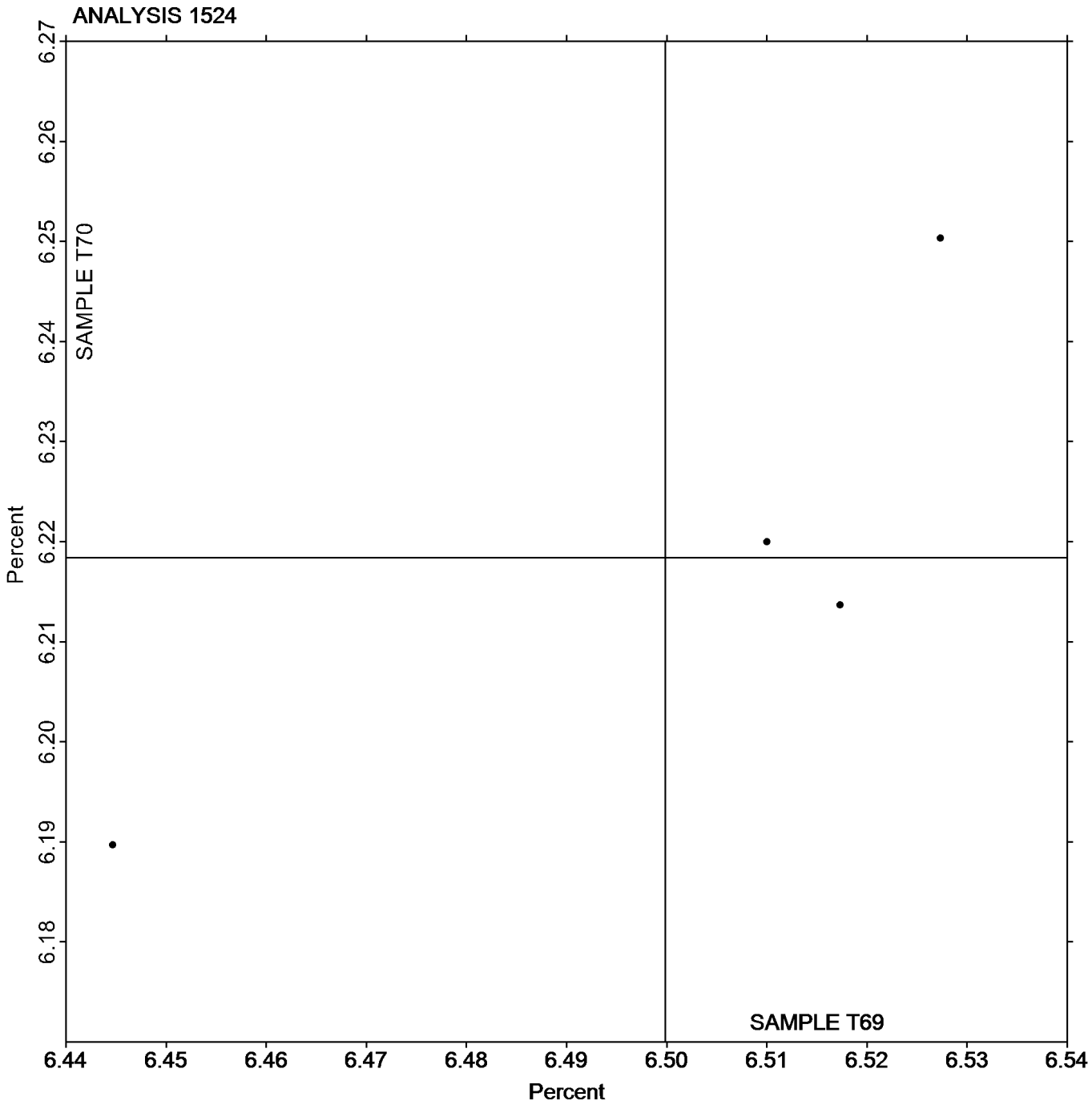
Statistics based on 4 of 4 reporting participants

Key to Method Codes Reported by Participants

IC Spectrometry - Inductively Coupled Plasma (ICP)
OE Spectrometry - Optical Emission (OES)
XR X-Ray Fluorescence - ED or WD not specified

SAMPLE T69
6.500 Percent

SAMPLE T70
6.218 Percent



Analysis 1525

Titanium-based Alloy, VANADIUM (V)
VANADIUM (V)

Note: Analyses 1520 (Ti), 1522 (O), and 1523 (N) have been excluded from the report as too few participants reported data to form consensus statistics.

		Sample T69			Sample T70			
WebCode	Data Flag	Lab Mean	Diff. from Grand Mean	CPV	Lab Mean	Diff. from Grand Mean	CPV	Method
TTKV8Z		4.203	0.005	0.07	4.008	-0.018	-0.32	OE
VU3W4Y		4.292	0.094	1.26	4.009	-0.018	-0.32	IC
WRDR4Z		4.110	-0.088	-1.18	3.980	-0.047	-0.82	XR
YZHQKE		4.186	-0.012	-0.15	4.109	0.083	1.46	OE

Summary Statistics

	Sample T69		Sample T70	
Grand Means	4.198	Percent	4.027	Percent
Stnd Dev Btwn Labs	0.075	Percent	0.057	Percent

Samples T69, T70 : Ti 6-4 (Gr. 5), Ti 6-4 (Gr. 5)

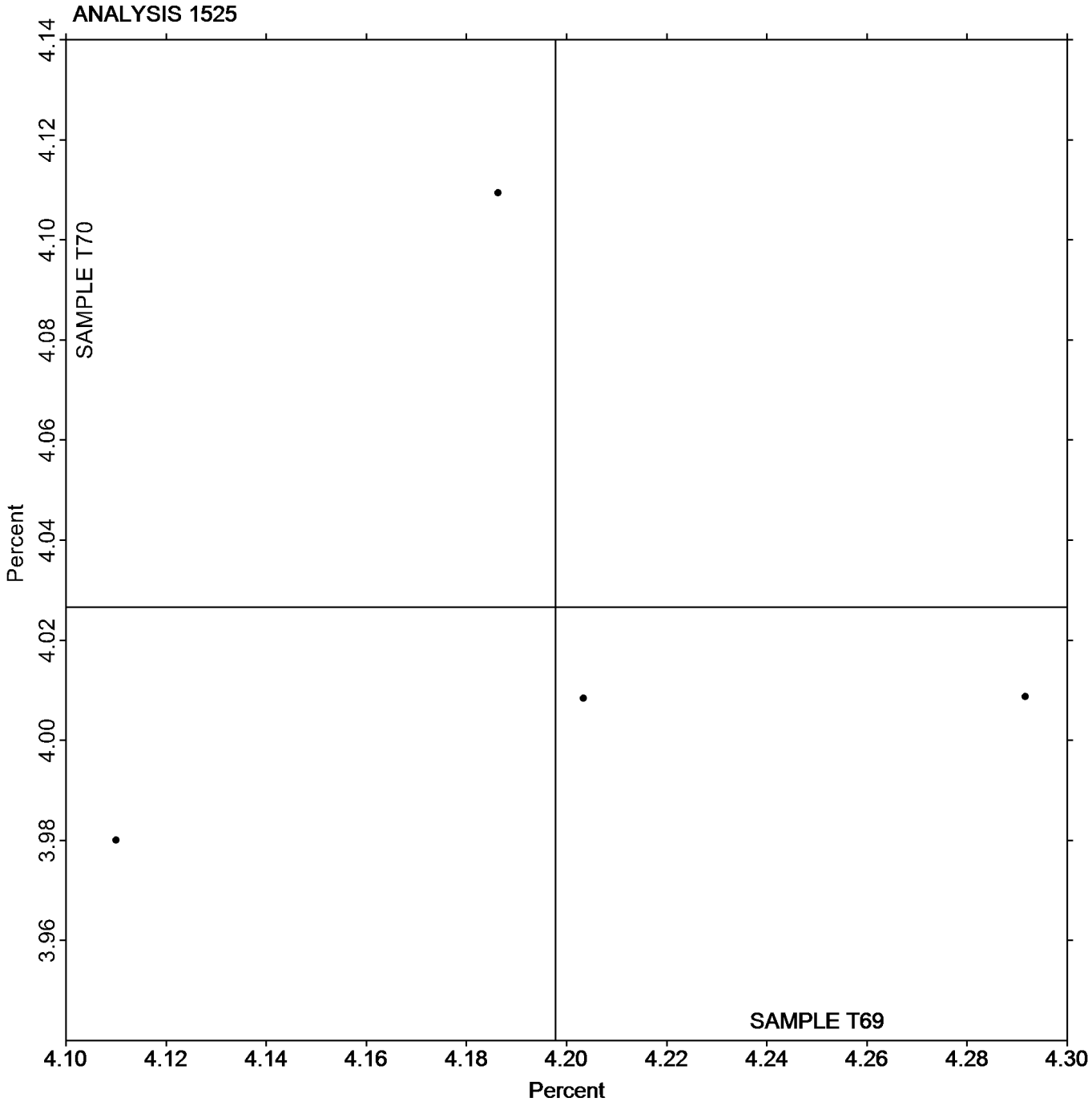
Statistics based on 4 of 4 reporting participants

Key to Method Codes Reported by Participants

IC Spectrometry - Inductively Coupled Plasma (ICP)
OE Spectrometry - Optical Emission (OES)
XR X-Ray Fluorescence - ED or WD not specified

SAMPLE T69
4.198 Percent

SAMPLE T70
4.027 Percent



Analysis 1526

Titanium-based Alloy, IRON (Fe)
IRON (Fe)

Note: Analyses 1520 (Ti), 1522 (O), and 1523 (N) have been excluded from the report as too few participants reported data to form consensus statistics.

		Sample T69			Sample T70			
WebCode	Data Flag	Lab Mean	Diff. from Grand Mean	CPV	Lab Mean	Diff. from Grand Mean	CPV	Method
TTKV8Z		0.2077	0.0086	1.15	0.1473	-0.0028	-0.13	OE
VU3W4Y		0.1927	-0.0064	-0.86	0.1350	-0.0152	-0.71	IC
WRDR4Z		0.1930	-0.0061	-0.81	0.1810	0.0308	1.45	XR
YZHQKE		0.2030	0.0039	0.52	0.1373	-0.0128	-0.60	OE

Summary Statistics

	Sample T69		Sample T70	
Grand Means	0.1991	Percent	0.1502	Percent
Stnd Dev Btwn Labs	0.0075	Percent	0.0212	Percent

Samples T69, T70 : Ti 6-4 (Gr. 5), Ti 6-4 (Gr. 5)

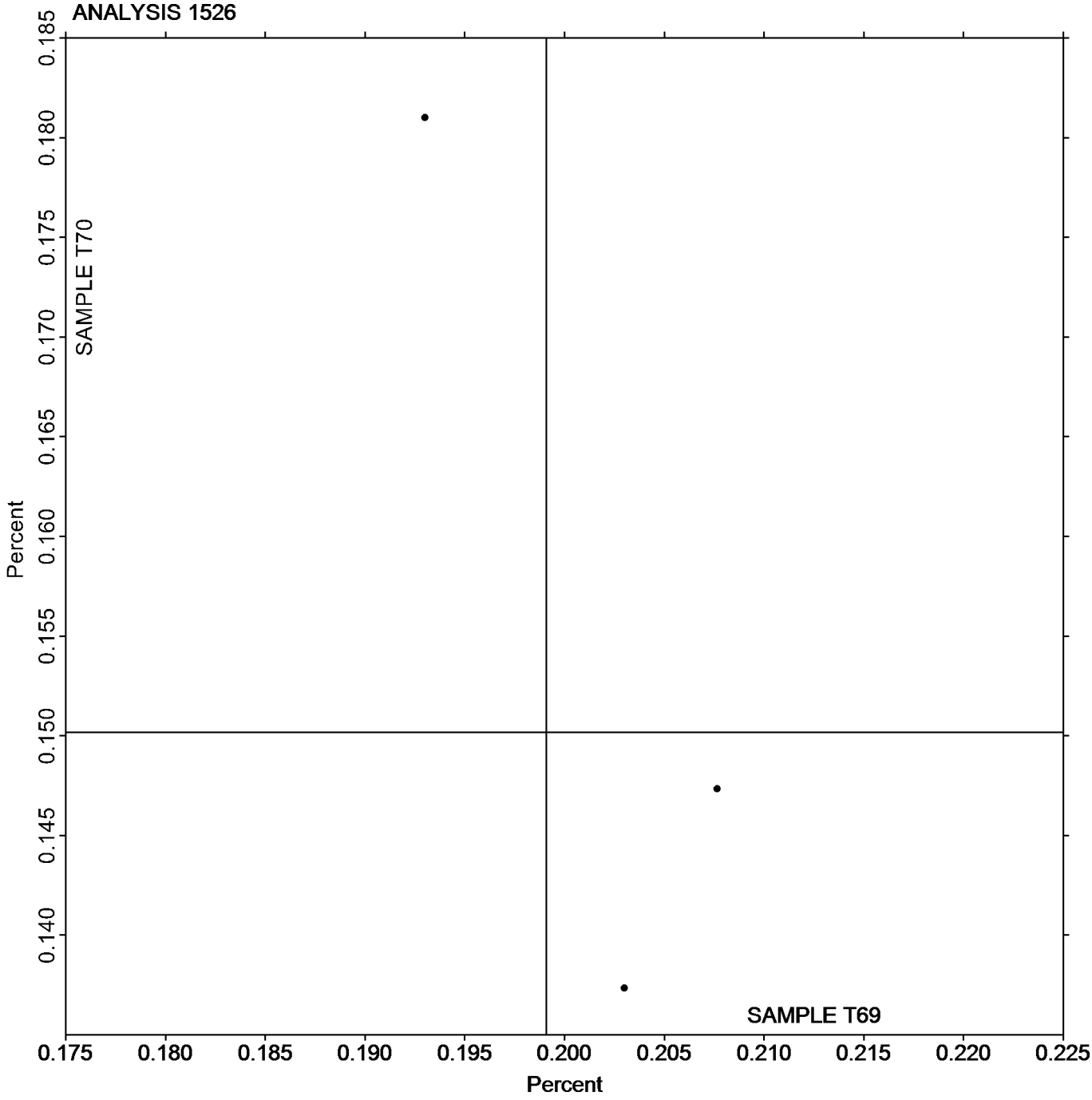
Statistics based on 4 of 4 reporting participants

Key to Method Codes Reported by Participants

IC Spectrometry - Inductively Coupled Plasma (ICP)
OE Spectrometry - Optical Emission (OES)
XR X-Ray Fluorescence - ED or WD not specified

SAMPLE T69
0.1991 Percent

SAMPLE T70
0.1502 Percent



Analysis 1527

Titanium-based Alloy, CARBON (C)
CARBON (C)

Note: Analyses 1520 (Ti), 1522 (O), and 1523 (N) have been excluded from the report as too few participants reported data to form consensus statistics.

		Sample T69			Sample T70			
WebCode	Data Flag	Lab Mean	Diff. from Grand Mean	CPV	Lab Mean	Diff. from Grand Mean	CPV	Method
TTKV8Z		0.0172	-0.0141	-0.83	0.0165	0.0029	0.92	OE
VU3W4Y		0.0500	0.0187	1.11	0.0140	0.0005	0.15	CI
WRDR4Z		0.0266	-0.0047	-0.28	0.0101	-0.0034	-1.07	CO

Summary Statistics

	Sample T69		Sample T70	
Grand Means	0.0313	Percent	0.0135	Percent
Stnd Dev Btwn Labs	0.0169	Percent	0.0032	Percent

Samples T69, T70 : Ti 6-4 (Gr. 5), Ti 6-4 (Gr. 5)

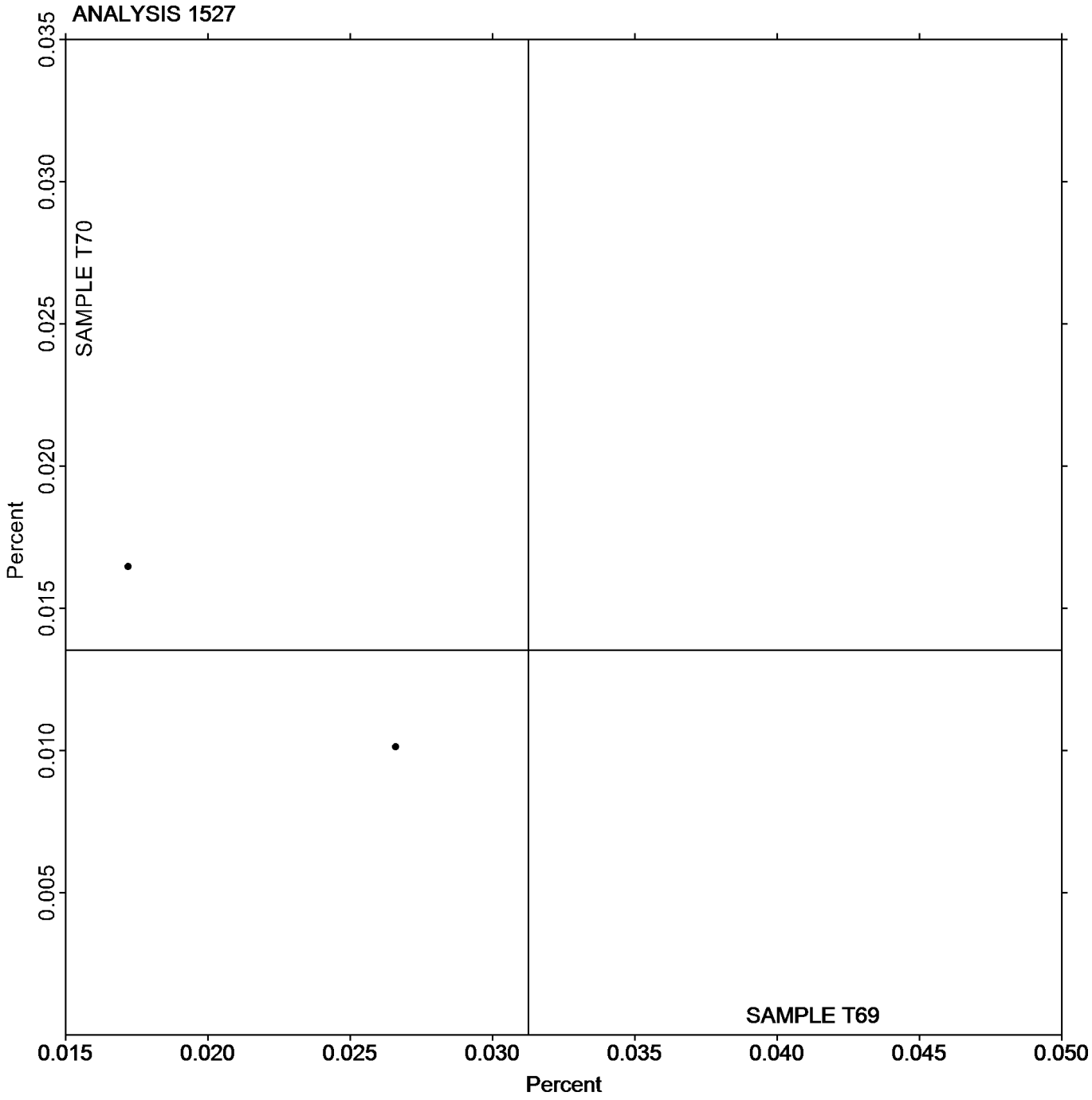
Statistics based on 3 of 3 reporting participants

Key to Method Codes Reported by Participants

CI Combustion / IR
CO Combustion
OE Spectrometry - Optical Emission (OES)

SAMPLE T69
0.0313 Percent

SAMPLE T70
0.0135 Percent



		Sample L69			Sample L70			
WebCode	Data Flag	Lab Mean	Diff. from Grand Mean	CPV	Lab Mean	Diff. from Grand Mean	CPV	Method
2AWLDB	X	0.4267	-0.0385	-4.85	0.4503	-0.0392	-4.51	OE
2GKXZT	*	0.4773	0.0121	1.52	0.4883	-0.0012	-0.13	OE
2HRC8Y	X	0.4913	0.0261	3.28	0.4987	0.0092	1.05	GD
2J6V3P		0.4600	-0.0052	-0.66	0.4877	-0.0018	-0.21	OE
2KE2HY	X	0.4300	-0.0352	-4.43	0.4500	-0.0395	-4.54	OE
2KJ9VT		0.4787	0.0134	1.69	0.5090	0.0195	2.24	OE
2M68YP		0.4602	-0.0051	-0.64	0.4800	-0.0095	-1.09	OE
3JHXDV		0.4674	0.0021	0.27	0.4875	-0.0020	-0.23	OE
3KDPZ2		0.4667	0.0015	0.18	0.4923	0.0028	0.32	CI
3RC47W	X	0.4733	0.0081	1.02	0.5113	0.0218	2.51	OE
4434EQ		0.4600	-0.0052	-0.66	0.4830	-0.0065	-0.75	OE
46C9RE		0.4650	-0.0002	-0.03	0.4903	0.0008	0.10	OE
4CDPZY		0.4627	-0.0026	-0.32	0.4808	-0.0087	-1.00	OE
4XEJBA	X	0.4923	0.0271	3.41	0.5113	0.0218	2.51	OE
4YBU7D		0.4847	0.0194	2.45	0.5100	0.0205	2.36	OE
629VJF		0.4777	0.0124	1.56	0.5073	0.0178	2.05	OE
6MPCPQ		0.4555	-0.0097	-1.23	0.4762	-0.0133	-1.53	XX
73XQG8	X	0.4482	-0.0170	-2.14	0.5169	0.0274	3.15	CI
7LFM28	X	0.4562	-0.0090	-1.13	0.4692	-0.0203	-2.34	AE
7Q4AR7		0.4683	0.0031	0.39	0.4980	0.0085	0.98	OE
7WUJ36		0.4727	0.0075	0.94	0.4960	0.0065	0.75	OE
86HURQ		0.4653	0.0001	0.01	0.4831	-0.0064	-0.74	CI
8G3ZAN	X	0.4383	-0.0269	-3.39	0.4733	-0.0162	-1.86	OE
962X2C	X	0.4887	0.0234	2.95	0.5050	0.0155	1.78	OE
99VYYK		0.4773	0.0120	1.51	0.4951	0.0056	0.64	CI
9DV7L3		0.4564	-0.0088	-1.11	0.4827	-0.0068	-0.78	XX
9GUGFH		0.4669	0.0017	0.21	0.4902	0.0007	0.08	OE
9JKHL6		0.4647	-0.0006	-0.07	0.4900	0.0005	0.06	CO
9L4TGN		0.4703	0.0051	0.64	0.4973	0.0078	0.90	CO
9NU2FR		0.4820	0.0168	2.11	0.5093	0.0198	2.28	CI
9RB4R4		0.4677	0.0024	0.31	0.4890	-0.0005	-0.06	CI
9UL26L		0.4600	-0.0052	-0.66	0.4830	-0.0065	-0.75	AE
A2XP8L		0.4623	-0.0029	-0.37	0.4830	-0.0065	-0.75	AE
C3YA9Q		0.4693	0.0041	0.52	0.4957	0.0062	0.71	CI
C3YELE	X	0.4343	-0.0309	-3.89	0.4820	-0.0075	-0.86	CI
CBD7YJ		0.4600	-0.0052	-0.66	0.4887	-0.0008	-0.10	CI
CEA2FX		0.4613	-0.0040	-0.50	0.4893	-0.0002	-0.02	CO
CEYZUY		0.4667	0.0014	0.18	0.5000	0.0105	1.21	OE
CGY9X9		0.4699	0.0047	0.59	0.4942	0.0047	0.54	OE
CHXDE3		0.4667	0.0014	0.18	0.4890	-0.0005	-0.06	OE
CTVAJP		0.4583	-0.0069	-0.87	0.4803	-0.0092	-1.05	OE
CU8QW4		0.4600	-0.0052	-0.66	0.4787	-0.0108	-1.25	GD
D7E2XY	X	0.4510	-0.0142	-1.79	0.4493	-0.0402	-4.62	OE
D7YZUW		0.4610	-0.0042	-0.53	0.4857	-0.0038	-0.44	OE
D9N7C9	X	0.4356	-0.0297	-3.73	0.4691	-0.0204	-2.35	OE
DGHB7A		0.4547	-0.0106	-1.33	0.4873	-0.0022	-0.25	CO
DH7RFG		0.4473	-0.0179	-2.25	0.4750	-0.0145	-1.67	IR

		Sample L69			Sample L70			
WebCode	Data Flag	Lab Mean	Diff. from Grand Mean	CPV	Lab Mean	Diff. from Grand Mean	CPV	Method
DJJEVB		0.4488	-0.0164	-2.07	0.4679	-0.0216	-2.49	OE
DKGRGH		0.4643	-0.0009	-0.11	0.4920	0.0025	0.29	CO
DLALF8		0.4680	0.0028	0.35	0.4940	0.0045	0.52	OE
DNF4E3		0.4743	0.0091	1.14	0.4947	0.0052	0.59	OE
DT9842	X	0.4737	0.0084	1.06	0.4457	-0.0438	-5.04	OE
DWVPLL		0.4640	-0.0012	-0.16	0.4960	0.0065	0.75	CI
EK984Y		0.4597	-0.0056	-0.70	0.4813	-0.0082	-0.94	OE
EYTPYN		0.4705	0.0053	0.66	0.4916	0.0021	0.24	OE
F6GPUU		0.4698	0.0045	0.57	0.4894	-0.0001	-0.02	OE
F7QPWG		0.4567	-0.0086	-1.08	0.4800	-0.0095	-1.09	GD
F8HXWJ		0.4729	0.0077	0.96	0.4977	0.0082	0.94	OE
FA84EV		0.4667	0.0014	0.18	0.4957	0.0062	0.71	OE
FCCRW7		0.4673	0.0021	0.26	0.4938	0.0043	0.49	OE
FEZ4VC		0.4720	0.0068	0.85	0.4970	0.0075	0.86	OE
FFVMWD		0.4660	0.0008	0.10	0.4880	-0.0015	-0.17	OE
FPMXBE		0.4622	-0.0030	-0.38	0.4802	-0.0093	-1.07	OE
FRALME	*	0.4432	-0.0221	-2.78	0.4704	-0.0191	-2.20	CI
FTHWGX	X	0.5021	0.0369	4.64	0.5295	0.0400	4.60	OE
G4JUQJ		0.4783	0.0131	1.65	0.5003	0.0108	1.25	AE
GY7VD4		0.4667	0.0014	0.18	0.4933	0.0038	0.44	CI
H7K4CK		0.4660	0.0008	0.10	0.4890	-0.0005	-0.06	OE
HBFPNG		0.4600	-0.0052	-0.66	0.4867	-0.0028	-0.33	OE
HHEK2L		0.4657	0.0004	0.05	0.4870	-0.0025	-0.29	CI
HJ4QGC		0.4659	0.0007	0.08	0.4948	0.0053	0.61	OE
HRF2TC	*	0.4423	-0.0229	-2.88	0.4627	-0.0268	-3.09	OE
J3FQAD		0.4543	-0.0109	-1.37	0.4783	-0.0112	-1.28	OE
J4BEN3		0.4453	-0.0199	-2.50	0.4737	-0.0158	-1.82	OE
J94HFK		0.4617	-0.0036	-0.45	0.4870	-0.0025	-0.29	OE
JVFECV		0.4836	0.0183	2.31	0.5096	0.0201	2.31	OE
K3TPYU		0.4684	0.0032	0.40	0.4872	-0.0023	-0.26	OE
K4P697		0.4773	0.0121	1.52	0.5000	0.0105	1.21	OE
KJMALA		0.4743	0.0091	1.14	0.4990	0.0095	1.09	OE
KNT624		0.4560	-0.0092	-1.16	0.4793	-0.0102	-1.17	OE
LCKF89		0.4720	0.0068	0.85	0.4980	0.0085	0.98	XX
LHLYY7		0.4623	-0.0029	-0.37	0.4887	-0.0008	-0.10	OE
LYWBYC		0.4653	0.0001	0.01	0.4877	-0.0018	-0.21	OE
MTXLKC		0.4672	0.0019	0.24	0.4941	0.0046	0.53	IR
MYL9FG		0.4547	-0.0106	-1.33	0.4797	-0.0098	-1.13	OE
NDG3C9		0.4680	0.0028	0.35	0.4917	0.0022	0.25	CI
NEBXTP		0.4696	0.0044	0.55	0.4933	0.0038	0.44	XX
NGYARV		0.4598	-0.0054	-0.68	0.4820	-0.0075	-0.87	DR
NJ6RQQ		0.4657	0.0004	0.05	0.4823	-0.0072	-0.82	OE
NNKXVD	X	0.4953	0.0301	3.79	0.5265	0.0370	4.25	OE
NPC426		0.4643	-0.0009	-0.11	0.4910	0.0015	0.17	OE
NRJAQD		0.4650	-0.0002	-0.03	0.4907	0.0012	0.13	OE
P2PLEU		0.4653	0.0000	0.00	0.4874	-0.0021	-0.24	OE
P4QQRE		0.4653	0.0001	0.01	0.4950	0.0055	0.63	CI

		Sample L69			Sample L70			
WebCode	Data Flag	Lab Mean	Diff. from Grand Mean	CPV	Lab Mean	Diff. from Grand Mean	CPV	Method
P7ZW8N	X	0.4642	-0.0010	-0.13	0.4715	-0.0180	-2.07	OE
PBUNLD		0.4590	-0.0062	-0.78	0.4810	-0.0085	-0.98	OE
PDLKB8		0.4657	0.0004	0.05	0.4880	-0.0015	-0.17	OE
PQ4G6A		0.4676	0.0024	0.30	0.4913	0.0018	0.21	OE
PQJZP8		0.4657	0.0004	0.05	0.4903	0.0008	0.10	CI
PRX8BN		0.4698	0.0046	0.57	0.4965	0.0070	0.80	OE
Q9GFPX		0.4720	0.0068	0.85	0.4983	0.0088	1.02	CI
QRWPTJ		0.4650	-0.0002	-0.03	0.4873	-0.0022	-0.25	GD
QT3ET8		0.4710	0.0058	0.73	0.4960	0.0065	0.75	GD
R8F3HV		0.4650	-0.0002	-0.03	0.4963	0.0068	0.79	CI
RA9VEZ		0.4670	0.0018	0.22	0.4920	0.0025	0.29	OE
RHNHN4		0.4744	0.0091	1.15	0.4983	0.0088	1.01	OE
RZJ8HC	X	0.4904	0.0251	3.16	0.4678	-0.0217	-2.50	CI
T7QXM3		0.4720	0.0068	0.86	0.4999	0.0104	1.20	OE
T8Z3ZR		0.4637	-0.0015	-0.19	0.4857	-0.0038	-0.44	CI
TZJHYZ		0.4587	-0.0066	-0.83	0.4833	-0.0062	-0.71	OE
U3LRHG		0.4580	-0.0072	-0.91	0.4790	-0.0105	-1.21	OE
UN4W8R		0.4674	0.0021	0.27	0.4962	0.0067	0.77	CI
UPDZ23	*	0.4747	0.0094	1.19	0.4867	-0.0028	-0.32	OE
V4BFHN		0.4503	-0.0149	-1.88	0.4757	-0.0138	-1.59	XX
VDCZHV		0.4563	-0.0089	-1.12	0.4810	-0.0085	-0.98	CI
VM2NDX	X	0.4930	0.0278	3.49	0.5210	0.0315	3.62	OE
VU3W4Y		0.4710	0.0058	0.73	0.4877	-0.0018	-0.21	OE
VU6QHX		0.4669	0.0017	0.21	0.4892	-0.0003	-0.04	OE
VWVTQ8		0.4700	0.0048	0.60	0.4913	0.0018	0.21	CI
VYXQ2Z		0.4603	-0.0049	-0.62	0.4867	-0.0028	-0.33	CO
W9XMCG		0.4663	0.0011	0.14	0.4927	0.0032	0.36	CI
WB4822		0.4744	0.0091	1.15	0.4983	0.0088	1.02	CI
WPNM8M		0.4713	0.0061	0.77	0.4977	0.0082	0.94	XX
WRDR4Z		0.4770	0.0118	1.48	0.5017	0.0122	1.40	OE
WVEXGK		0.4619	-0.0033	-0.42	0.4873	-0.0022	-0.25	IR
X366CV		0.4645	-0.0007	-0.09	0.4862	-0.0033	-0.38	OE
XL29E7		0.4573	-0.0079	-0.99	0.4767	-0.0128	-1.48	OE
YDNUV2	X	0.4390	-0.0262	-3.30	0.4773	-0.0122	-1.40	CI
YHF7LQ		0.4717	0.0064	0.81	0.4927	0.0032	0.36	DR
YPJTYZ		0.4600	-0.0052	-0.66	0.4827	-0.0068	-0.79	OE
YQURVU		0.4617	-0.0036	-0.45	0.4900	0.0005	0.06	CO
YZFTDP		0.4557	-0.0096	-1.20	0.4803	-0.0092	-1.05	IC
ZC78RC	X	0.4853	0.0201	2.53	0.5193	0.0298	3.43	GD
ZD2N8V		0.4848	0.0196	2.46	0.5056	0.0161	1.85	OE
ZM9KVX		0.4640	-0.0012	-0.16	0.4870	-0.0025	-0.29	OE
ZRKBCL	X	0.4255	-0.0398	-5.00	0.4382	-0.0513	-5.90	OE
ZYLHZ3	X	0.4413	-0.0239	-3.01	0.5017	0.0122	1.40	OE

Summary Statistics

	Sample L69		Sample L70	
Grand Means	0.4652	Percent	0.4895	Percent
Stnd Dev Btwn Labs	0.0079	Percent	0.0087	Percent

Samples L69, L70 : AISI 1045, AISI 1045

Statistics based on 113 of 137 reporting participants

Key to Method Codes Reported by Participants

AE	Spectrometry - Atomic Emission (AES)	CI	Combustion / IR
CO	Combustion	DR	Spectrometry - Direct Reading OE (DROES)
GD	Spectrometry - Glow Discharge (GDS)	IC	Spectrometry - Inductively Coupled Plasma (ICP)
IR	IR (Absorption / Detection)	OE	Spectrometry - Optical Emission (OES)
XX	Please Indicate Method Used for Current Element		

Comments on Assigned Data Flags for Test #1600

2AWLDB (X) - Data for both samples are low. Possible Systematic Error. Inconsistent within the determinations of sample L69.

2HRC8Y (X) - Data for sample L69 are high.

2KE2HY (X) - Data for both samples are low. Possible Systematic Error.

3RC47W (X) - Inconsistent in testing between samples. Inconsistent within the determinations of both samples.

4XEJBA (X) - Data for sample L69 are high.

73XQG8 (X) - Data for sample L70 are high.

7LFM28 (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample L70.

8G3ZAN (X) - Data for sample L69 are low. Inconsistent within the determinations of sample L70.

962X2C (X) - Data for sample L69 are high. Inconsistent within the determinations of sample L70.

C3YELE (X) - Data for sample L69 are low. Inconsistent within the determinations of sample L70.

D7E2XY (X) - Data for sample L70 are low.

D9N7C9 (X) - Data for sample L69 are low.

DT9842 (X) - Data for sample L70 are low.

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

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

P7ZW8N (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample L69.

RZJ8HC (X) - Data for sample L69 are high.

VM2NDX (X) - Data for both samples are high. Possible Systematic Error. Inconsistent within the determinations of sample L70.

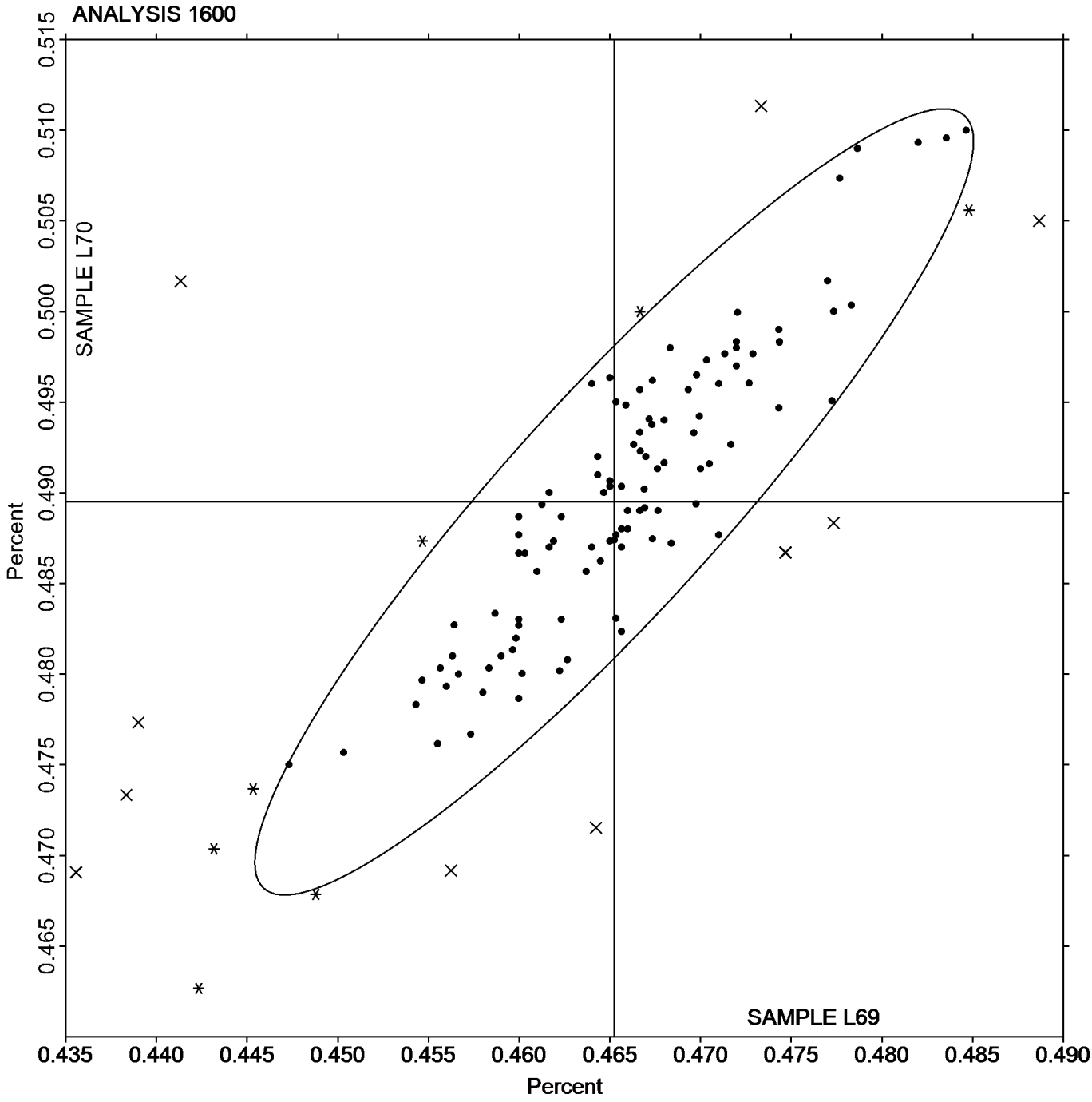
YDNUV2 (X) - Data for sample L69 are low. Inconsistent within the determinations of both samples.

ZC78RC (X) - Data for sample L70 are high.

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

ZYLHZ3 (X) - Data for sample L69 are low.

SAMPLE L69	SAMPLE L70
0.4652 Percent	0.4895 Percent



		Sample L69			Sample L70			
WebCode	Data Flag	Lab Mean	Diff. from Grand Mean	CPV	Lab Mean	Diff. from Grand Mean	CPV	Method
2AWLDB	X	0.6613	-0.0485	-6.48	0.7238	-0.0587	-7.17	OE
2GKXZT		0.7267	0.0168	2.25	0.7997	0.0172	2.10	OE
2HRC8Y	*	0.7103	0.0005	0.07	0.7973	0.0149	1.82	GD
2J6V3P	*	0.7297	0.0198	2.65	0.7887	0.0062	0.76	OE
2KE2HY		0.7100	0.0002	0.02	0.7800	-0.0025	-0.30	OE
2KJ9VT		0.7173	0.0075	1.00	0.7933	0.0109	1.33	OE
2M68YP	*	0.7184	0.0086	1.15	0.7651	-0.0174	-2.12	OE
3JHXDV		0.7053	-0.0045	-0.60	0.7754	-0.0071	-0.87	OE
3KDPZ2		0.7123	0.0025	0.33	0.7840	0.0015	0.19	WD
3RC47W		0.7093	-0.0005	-0.07	0.7827	0.0002	0.03	OE
4434EQ		0.7100	0.0002	0.02	0.7807	-0.0018	-0.22	OE
46C9RE		0.7127	0.0028	0.38	0.7793	-0.0031	-0.38	OE
4CDPZY		0.7124	0.0026	0.34	0.7814	-0.0010	-0.13	XX
4XEJBA		0.7177	0.0078	1.05	0.7883	0.0059	0.72	OE
4YBU7D	X	0.6877	-0.0222	-2.96	0.7720	-0.0105	-1.28	OE
629VJF		0.6990	-0.0108	-1.45	0.7653	-0.0171	-2.09	OE
6MPCPQ	*	0.7157	0.0058	0.78	0.8027	0.0202	2.47	XX
73XQG8	*	0.7236	0.0138	1.84	0.7897	0.0072	0.88	IC
7LFM28		0.7080	-0.0018	-0.24	0.7750	-0.0075	-0.91	AE
7Q4AR7		0.7123	0.0025	0.33	0.7847	0.0022	0.27	OE
7WUJ36		0.7111	0.0013	0.17	0.7823	-0.0002	-0.02	OE
86HURQ		0.7036	-0.0062	-0.83	0.7771	-0.0054	-0.65	IC
8G3ZAN		0.7047	-0.0052	-0.69	0.7787	-0.0038	-0.46	OE
962X2C		0.7170	0.0072	0.96	0.7940	0.0115	1.41	OE
99VYYK	*	0.7043	-0.0055	-0.73	0.7863	0.0038	0.47	IC
9DV7L3		0.7286	0.0188	2.51	0.7983	0.0158	1.93	XX
9GUGFH		0.7125	0.0026	0.35	0.7807	-0.0018	-0.22	OE
9JKHL6		0.7050	-0.0048	-0.64	0.7800	-0.0025	-0.30	OE
9L4TGN		0.7067	-0.0032	-0.42	0.7790	-0.0035	-0.42	OE
9NU2FR		0.7047	-0.0052	-0.69	0.7803	-0.0021	-0.26	OE
9RB4R4		0.7147	0.0048	0.65	0.7843	0.0019	0.23	OE
9UL26L		0.7033	-0.0065	-0.87	0.7763	-0.0061	-0.75	AE
A2XP8L		0.7213	0.0115	1.54	0.7937	0.0112	1.37	AE
AMFWLZ		0.7100	0.0002	0.02	0.7800	-0.0025	-0.30	AA
C3YA9Q		0.7170	0.0072	0.96	0.7903	0.0079	0.96	IC
C3YELE	X	0.7347	0.0248	3.32	0.8153	0.0329	4.01	OE
CBD7YJ		0.7167	0.0068	0.91	0.7870	0.0045	0.55	IC
CEA2FX		0.7165	0.0067	0.90	0.7871	0.0046	0.57	OE
CEYZUY		0.7047	-0.0052	-0.69	0.7783	-0.0041	-0.50	OE
CGY9X9		0.7029	-0.0069	-0.92	0.7787	-0.0038	-0.46	OE
CHXDE3		0.6977	-0.0122	-1.62	0.7693	-0.0131	-1.60	OE
CTVAJP		0.7100	0.0002	0.02	0.7800	-0.0025	-0.30	OE
CU8QW4		0.7077	-0.0022	-0.29	0.7767	-0.0058	-0.71	GD
D7E2XY	X	0.7050	-0.0048	-0.64	0.8080	0.0255	3.12	OE
D7YZUW		0.7063	-0.0035	-0.47	0.7837	0.0012	0.15	OE
D9N7C9		0.7061	-0.0037	-0.50	0.7677	-0.0148	-1.81	OE
DH7RFG		0.7000	-0.0098	-1.31	0.7733	-0.0091	-1.11	IC

		Sample L69			Sample L70			
WebCode	Data Flag	Lab Mean	Diff. from Grand Mean	CPV	Lab Mean	Diff. from Grand Mean	CPV	Method
DJJEVB		0.6984	-0.0114	-1.52	0.7791	-0.0033	-0.41	XX
DKGRGH		0.7200	0.0102	1.36	0.7933	0.0109	1.33	OE
DLALF8		0.6950	-0.0148	-1.98	0.7633	-0.0191	-2.34	OE
DNF4E3		0.7070	-0.0028	-0.38	0.7780	-0.0045	-0.54	OE
DT9842		0.7067	-0.0032	-0.42	0.7900	0.0075	0.92	OE
DWVPLL		0.7037	-0.0062	-0.82	0.7773	-0.0051	-0.63	OE
EK984Y		0.7053	-0.0045	-0.60	0.7780	-0.0045	-0.54	OE
EXW8Y8		0.7127	0.0028	0.38	0.7757	-0.0068	-0.83	OE
EYTPYN		0.7121	0.0023	0.31	0.7837	0.0012	0.15	OE
F6GPUU		0.7042	-0.0056	-0.75	0.7800	-0.0025	-0.30	OE
F7QPWG		0.7100	0.0002	0.02	0.7833	0.0009	0.11	GD
F8HXWJ		0.7183	0.0085	1.13	0.7924	0.0100	1.22	OE
FA84EV		0.7007	-0.0092	-1.22	0.7730	-0.0095	-1.16	OE
FCCRW7		0.7064	-0.0035	-0.46	0.7808	-0.0017	-0.20	OE
FEZ4VC		0.6953	-0.0145	-1.94	0.7677	-0.0148	-1.81	OE
FFVMWD		0.7130	0.0032	0.42	0.7840	0.0015	0.19	OE
FPMXBE		0.7119	0.0020	0.27	0.7870	0.0045	0.55	OE
FTHWGX		0.6974	-0.0124	-1.66	0.7669	-0.0156	-1.90	OE
G4JUQJ		0.7153	0.0055	0.74	0.7863	0.0039	0.47	AE
GY7VD4		0.7200	0.0102	1.36	0.7933	0.0109	1.33	OE
H7K4CK		0.7130	0.0032	0.42	0.7840	0.0015	0.19	OE
HBFPNG		0.7100	0.0002	0.02	0.7800	-0.0025	-0.30	OE
HHEK2L	*	0.6973	-0.0125	-1.67	0.7813	-0.0011	-0.14	IC
HJ4QGC		0.7195	0.0097	1.30	0.7946	0.0121	1.48	OE
HRF2TC		0.7067	-0.0032	-0.42	0.7843	0.0019	0.23	OE
J3FQAD		0.7073	-0.0025	-0.33	0.7827	0.0002	0.03	OE
J4BEN3		0.7047	-0.0052	-0.69	0.7733	-0.0091	-1.11	OE
J94HFK		0.7033	-0.0065	-0.87	0.7770	-0.0055	-0.67	OE
JVFECV		0.7160	0.0061	0.82	0.7884	0.0059	0.73	OE
K3TPYU		0.7135	0.0037	0.49	0.7878	0.0053	0.65	OE
K4P697		0.6937	-0.0162	-2.16	0.7697	-0.0128	-1.56	OE
KJMALA		0.7223	0.0125	1.67	0.7923	0.0099	1.21	OE
KNT624		0.7150	0.0052	0.69	0.7897	0.0072	0.88	OE
KU4YHU		0.7117	0.0018	0.25	0.7867	0.0042	0.51	XX
LCKF89		0.7117	0.0018	0.25	0.7803	-0.0021	-0.26	XX
LHLYY7		0.7127	0.0028	0.38	0.7837	0.0012	0.15	OE
LYWBYC		0.7050	-0.0048	-0.64	0.7803	-0.0021	-0.26	OE
MTXLKC		0.6984	-0.0114	-1.52	0.7756	-0.0069	-0.84	OE
MYL9FG		0.7063	-0.0035	-0.47	0.7780	-0.0045	-0.54	OE
NDG3C9		0.7090	-0.0008	-0.11	0.7833	0.0009	0.11	OE
NEBXTP		0.7187	0.0089	1.19	0.7997	0.0172	2.10	XX
NGYARV		0.6993	-0.0105	-1.40	0.7710	-0.0115	-1.40	DR
NJ6RQQ		0.7033	-0.0065	-0.87	0.7733	-0.0091	-1.11	XX
NNKXVD		0.7223	0.0125	1.67	0.7957	0.0132	1.61	OE
NPC426		0.7100	0.0002	0.02	0.7857	0.0032	0.39	OE
NRJAQD		0.7103	0.0005	0.07	0.7873	0.0049	0.60	OE
P2PLEU		0.7090	-0.0008	-0.11	0.7810	-0.0014	-0.17	OE

		Sample L69			Sample L70			
WebCode	Data Flag	Lab Mean	Diff. from Grand Mean	CPV	Lab Mean	Diff. from Grand Mean	CPV	Method
P4QQRE		0.7027	-0.0072	-0.96	0.7743	-0.0081	-0.99	IC
P7ZW8N		0.6980	-0.0118	-1.58	0.7709	-0.0116	-1.41	OE
PBUNLD		0.7183	0.0085	1.14	0.7973	0.0149	1.82	OE
PDLKB8		0.7133	0.0035	0.47	0.7877	0.0052	0.64	OE
PQ4G6A		0.7096	-0.0003	-0.03	0.7818	-0.0007	-0.08	OE
PQJZP8		0.7030	-0.0069	-0.92	0.7833	0.0008	0.10	IC
PRX8BN		0.7075	-0.0023	-0.31	0.7842	0.0017	0.21	OE
Q9GFPX		0.7077	-0.0022	-0.29	0.7750	-0.0075	-0.91	OE
QRWPTJ		0.7290	0.0192	2.56	0.8033	0.0209	2.55	GD
QT3ET8		0.7260	0.0162	2.16	0.7970	0.0145	1.78	GD
R8F3HV		0.7187	0.0088	1.18	0.7980	0.0155	1.90	IC
RA9VEZ		0.7133	0.0035	0.47	0.7870	0.0045	0.55	OE
RHNHN4		0.7168	0.0070	0.93	0.7894	0.0069	0.85	OE
RZJ8HC		0.7116	0.0017	0.23	0.7863	0.0038	0.46	OE
T68AZ3	X	0.7510	0.0412	5.50	0.8170	0.0345	4.22	IC
T7QXM3		0.7116	0.0018	0.24	0.7861	0.0036	0.44	OE
T8HUAC		0.7044	-0.0054	-0.72	0.7782	-0.0043	-0.52	IC
T8Z3ZR		0.7113	0.0015	0.20	0.7850	0.0025	0.31	IC
TZJHYZ		0.6967	-0.0132	-1.76	0.7633	-0.0191	-2.34	OE
U3LRHG	*	0.7100	0.0002	0.02	0.7700	-0.0125	-1.52	OE
UJ96YU		0.7220	0.0122	1.63	0.7920	0.0095	1.17	XX
UN4W8R	*	0.7167	0.0068	0.91	0.7767	-0.0058	-0.71	IC
UPDZ23		0.7129	0.0031	0.42	0.7918	0.0093	1.14	OE
V4BFHN		0.6977	-0.0122	-1.62	0.7693	-0.0131	-1.60	XX
VDCZHV		0.7033	-0.0065	-0.87	0.7783	-0.0041	-0.50	IC
VM2NDX		0.7180	0.0082	1.09	0.7980	0.0155	1.90	OE
VU3W4Y		0.7020	-0.0078	-1.05	0.7763	-0.0061	-0.75	OE
VU6QHX		0.7028	-0.0071	-0.94	0.7703	-0.0122	-1.49	OE
VWVTQ8		0.7170	0.0072	0.96	0.7870	0.0045	0.55	IC
VYXQ2Z		0.7090	-0.0008	-0.11	0.7767	-0.0058	-0.71	OE
W9XMCG		0.7137	0.0038	0.51	0.7853	0.0029	0.35	IC
WB4822		0.7145	0.0047	0.62	0.7853	0.0028	0.35	IC
WPNM8M	X	0.6067	-0.1032	-13.78	0.7763	-0.0061	-0.75	AE
WRDR4Z		0.6997	-0.0102	-1.36	0.7750	-0.0075	-0.91	OE
WVEXGK		0.7096	-0.0002	-0.03	0.7822	-0.0003	-0.04	OE
X366CV		0.7064	-0.0034	-0.46	0.7797	-0.0028	-0.34	OE
XD7BMW		0.7117	0.0018	0.25	0.7793	-0.0031	-0.38	XX
XL29E7		0.7127	0.0028	0.38	0.7833	0.0009	0.11	OE
YDNUV2		0.7127	0.0028	0.38	0.7877	0.0052	0.64	OE
YHF7LQ		0.7063	-0.0035	-0.47	0.7833	0.0009	0.11	DR
YPJTYZ	X	0.7073	-0.0025	-0.33	0.7413	-0.0411	-5.02	OE
YQURVU		0.7083	-0.0015	-0.20	0.7780	-0.0045	-0.54	IC
YWGHHP		0.7200	0.0102	1.36	0.7933	0.0109	1.33	XX
YZFTDP		0.7033	-0.0065	-0.87	0.7803	-0.0021	-0.26	IC
ZC78RC		0.7090	-0.0008	-0.11	0.7753	-0.0071	-0.87	GD
ZD2N8V		0.6998	-0.0100	-1.34	0.7686	-0.0139	-1.69	OE
ZHURVT	X	0.7593	0.0495	6.61	0.8387	0.0562	6.86	XR

WebCode	Data Flag	Sample L69 Lab Mean	Sample L69 Diff. from Grand Mean	Sample L69 CPV	Sample L70 Lab Mean	Sample L70 Diff. from Grand Mean	Sample L70 CPV	Method
ZM9KVX		0.7117	0.0018	0.25	0.7807	-0.0018	-0.22	OE
ZRKBCL		0.7022	-0.0076	-1.02	0.7767	-0.0058	-0.71	OE
ZYLHZ3		0.7260	0.0162	2.16	0.7943	0.0119	1.45	OE

Summary Statistics

	Sample L69		Sample L70	
Grand Means	0.7098	Percent	0.7825	Percent
Stnd Dev Btwn Labs	0.0075	Percent	0.0082	Percent

Samples L69, L70 : AISI 1045, AISI 1045

Statistics based on 129 of 144 reporting participants

Key to Method Codes Reported by Participants

AA	Spectrometry - Atomic Absorption (AAS)	AE	Spectrometry - Atomic Emission (AES)
DR	Spectrometry - Direct Reading OE (DROES)	GD	Spectrometry - Glow Discharge (GDS)
IC	Spectrometry - Inductively Coupled Plasma (ICP)	OE	Spectrometry - Optical Emission (OES)
WD	X-Ray Fluorescence - Wavelength Dispersive (WDX)	XR	X-Ray Fluorescence - ED or WD not specified
XX	Please Indicate Method Used for Current Element		

Comments on Assigned Data Flags for Test #1601

2AWLDB (X) - Data for both samples are low. Possible Systematic Error.

4YBU7D (X) - Data for sample L69 are low.

C3YELE (X) - Data for both samples are high. Possible Systematic Error. Inconsistent within the determinations of sample L69.

D7E2XY (X) - Data for sample L70 are high. Inconsistent within the determinations of sample L69.

T68AZ3 (X) - Data for both samples are high. Possible Systematic Error.

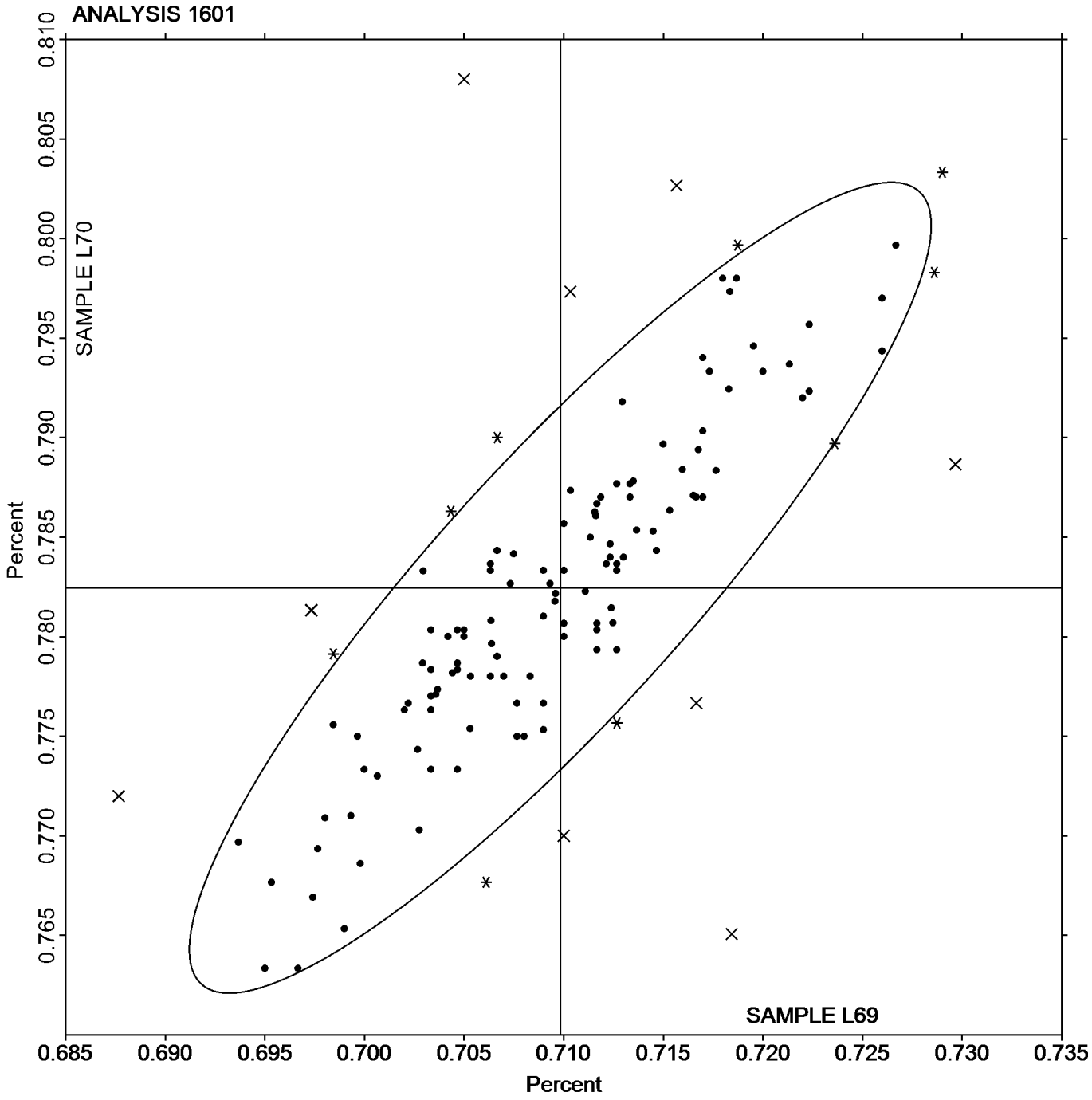
WPNM8M (X) - Data for sample L69 are low. Inconsistent within the determinations of sample L69.

YPJTYZ (X) - Data for sample L70 are low.

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

SAMPLE L69
0.7098 Percent

SAMPLE L70
0.7825 Percent



		Sample L69			Sample L70			
WebCode	Data Flag	Lab Mean	Diff. from Grand Mean	CPV	Lab Mean	Diff. from Grand Mean	CPV	Method
2AWLDB		0.00574	-0.00101	-0.91	0.0105	-0.0009	-0.80	OE
2GKXZT		0.00907	0.00232	2.10	0.0139	0.0025	2.22	OE
2HRC8Y		0.00923	0.00249	2.25	0.0130	0.0016	1.44	GD
2J6V3P		0.00813	0.00139	1.26	0.0121	0.0007	0.67	OE
2KE2HY	*	0.00567	-0.00108	-0.97	0.00900	-0.0024	-2.14	OE
2KJ9VT		0.00650	-0.00024	-0.22	0.0113	-0.0001	-0.05	OE
2M68YP		0.00913	0.00239	2.16	0.0130	0.0016	1.44	OE
3JHXDV		0.00668	-0.00007	-0.06	0.0114	0.0000	0.03	OE
3KDPZ2		0.00620	-0.00054	-0.49	0.0109	-0.0005	-0.41	OE
3RC47W	*	0.00967	0.00292	2.64	0.0143	0.0029	2.64	OE
4434EQ		0.00657	-0.00018	-0.16	0.0105	-0.0009	-0.83	OE
46C9RE		0.00550	-0.00124	-1.12	0.0109	-0.0005	-0.41	OE
4CDPZY	M	No Data Reported			0.0121	0.0007	0.61	XX
4XEJBA		0.00900	0.00226	2.04	0.0140	0.0026	2.34	OE
4YBU7D		0.00910	0.00236	2.13	0.0132	0.0018	1.59	OE
629VJF		0.00600	-0.00074	-0.67	0.0107	-0.0007	-0.65	OE
6MPCPQ	X	0.00300	-0.00374	-3.38	0.00767	-0.0037	-3.34	XX
73XQG8		0.00823	0.00149	1.35	0.0135	0.0021	1.86	IC
7LFM28		0.00747	0.00072	0.65	0.0126	0.0012	1.06	AE
7Q4AR7		0.00587	-0.00088	-0.79	0.0111	-0.0003	-0.29	OE
7WUJ36		0.00620	-0.00054	-0.49	0.0112	-0.0002	-0.17	OE
86HURQ		0.00530	-0.00144	-1.30	0.00990	-0.0015	-1.34	IC
8G3ZAN		0.00700	0.00026	0.23	0.0120	0.0006	0.55	OE
962X2C	X	0.00837	0.00162	1.47	0.0167	0.0053	4.73	OE
99VYYK		0.00670	-0.00004	-0.04	0.0112	-0.0002	-0.17	IC
9DV7L3		0.00573	-0.00101	-0.91	0.0107	-0.0007	-0.62	XX
9GUGFH		0.00697	0.00022	0.20	0.0118	0.0004	0.40	OE
9JKHL6		0.00660	-0.00014	-0.13	0.0120	0.0006	0.55	OE
9L4TGN		0.00600	-0.00074	-0.67	0.0110	-0.0004	-0.35	OE
9NU2FR		0.00900	0.00226	2.04	0.0133	0.0019	1.74	OE
9RB4R4		0.00647	-0.00028	-0.25	0.0119	0.0005	0.46	OE
9UL26L		0.00807	0.00132	1.20	0.0128	0.0014	1.26	AE
A2XP8L		0.00730	0.00056	0.50	0.0125	0.0011	1.03	AE
C3YA9Q		0.00600	-0.00074	-0.67	0.0107	-0.0007	-0.65	IC
C3YELE	X	0.0121	0.00539	4.86	0.0148	0.0034	3.03	OE
CBD7YJ		0.00687	0.00012	0.11	0.0107	-0.0007	-0.65	IC
CEA2FX		0.00710	0.00036	0.32	0.0117	0.0003	0.31	OE
CEYZUY		0.00667	-0.00008	-0.07	0.0120	0.0006	0.55	OE
CGY9X9		0.00627	-0.00048	-0.43	0.0108	-0.0006	-0.56	OE
CHXDE3		0.00687	0.00012	0.11	0.0113	-0.0001	-0.05	OE
CTVAJP		0.00567	-0.00108	-0.97	0.0110	-0.0004	-0.35	OE
CU8QW4	X	0.00467	-0.00208	-1.87	0.00733	-0.0041	-3.64	GD
D7E2XY	X	0.0100	0.00326	2.94	0.0113	-0.0001	-0.05	OE
D7YZUW		0.00600	-0.00074	-0.67	0.0113	-0.0001	-0.05	OE
D9N7C9	*	0.00340	-0.00334	-3.02	0.00813	-0.0033	-2.92	OE
DH7RFG		0.00567	-0.00108	-0.97	0.00967	-0.0017	-1.55	IC
DJJEVB		0.00737	0.00063	0.57	0.0108	-0.0006	-0.56	XX

		Sample L69			Sample L70			
WebCode	Data Flag	Lab Mean	Diff. from Grand Mean	CPV	Lab Mean	Diff. from Grand Mean	CPV	Method
DKGRGH	X	0.0107	0.00392	3.54	0.0120	0.0006	0.55	OE
DLALF8		0.00600	-0.00074	-0.67	0.0110	-0.0004	-0.35	OE
DNF4E3		0.00847	0.00172	1.56	0.0117	0.0003	0.28	OE
DT9842	X	0.00567	-0.00108	-0.97	0.00667	-0.0047	-4.24	OE
DWVPLL		0.00613	-0.00061	-0.55	0.0110	-0.0004	-0.38	OE
EK984Y		0.00670	-0.00004	-0.04	0.0109	-0.0005	-0.41	OE
EXW8Y8		0.00500	-0.00174	-1.57	0.00913	-0.0023	-2.02	OE
EYTPYN		0.00623	-0.00051	-0.46	0.0114	0.0000	-0.02	OE
F6GPUU		0.00600	-0.00074	-0.67	0.0107	-0.0007	-0.62	OE
F7QPWG		0.00600	-0.00074	-0.67	0.0100	-0.0014	-1.25	GD
F8HXWJ		0.00597	-0.00078	-0.70	0.0109	-0.0005	-0.47	OE
FA84EV		0.00600	-0.00074	-0.67	0.0107	-0.0007	-0.65	OE
FCCRW7		0.00623	-0.00051	-0.46	0.0109	-0.0005	-0.41	OE
FEZ4VC		0.00577	-0.00098	-0.88	0.0107	-0.0007	-0.62	OE
FFVMWD		0.00640	-0.00034	-0.31	0.0113	-0.0001	-0.08	XX
FPMXBE		0.00663	-0.00011	-0.10	0.0118	0.0004	0.37	OE
FTHWGX		0.00812	0.00138	1.24	0.0130	0.0016	1.43	OE
G4JUQJ		0.00647	-0.00028	-0.25	0.0111	-0.0003	-0.23	AE
GY7VD4		0.00633	-0.00041	-0.37	0.0113	-0.0001	-0.08	OE
H7K4CK		0.00600	-0.00074	-0.67	0.0110	-0.0004	-0.35	OE
HBFPNG		0.00667	-0.00008	-0.07	0.0122	0.0008	0.76	OE
HHEK2L		0.00570	-0.00104	-0.94	0.0104	-0.0010	-0.92	CL
HJ4QGC		0.00837	0.00162	1.47	0.0116	0.0002	0.22	OE
HRF2TC		0.00737	0.00062	0.56	0.0135	0.0021	1.89	OE
J3FQAD	*	0.00633	-0.00041	-0.37	0.00900	-0.0024	-2.14	OE
J4BEN3	M	No Data Reported			0.00963	-0.0018	-1.58	OE
J94HFK		0.00510	-0.00164	-1.48	0.0105	-0.0009	-0.83	OE
JVFECV		0.00553	-0.00122	-1.10	0.00971	-0.0017	-1.51	OE
K3TPYU		0.00673	-0.00001	-0.01	0.0112	-0.0002	-0.20	OE
K4P697		0.00787	0.00112	1.01	0.0124	0.0010	0.88	XX
KJMALA		0.00693	0.00019	0.17	0.0126	0.0012	1.06	OE
KNT624		0.00657	-0.00018	-0.16	0.0118	0.0004	0.34	OE
KU4YHU		0.00933	0.00259	2.34	0.0137	0.0023	2.04	XX
LCKF89	X	0.00240	-0.00434	-3.92	0.00720	-0.0042	-3.76	XX
LHLYY7		0.00620	-0.00054	-0.49	0.0110	-0.0004	-0.38	OE
LYWBYC		0.00553	-0.00121	-1.09	0.0114	0.0000	0.01	XX
MTXLKC		0.00627	-0.00048	-0.43	0.0105	-0.0009	-0.77	OE
MYL9FG		0.00567	-0.00108	-0.97	0.0100	-0.0014	-1.25	OE
NDG3C9		0.00750	0.00076	0.68	0.0112	-0.0002	-0.17	OE
NEBXTP		0.00637	-0.00038	-0.34	0.0118	0.0004	0.34	XX
NGYARV		0.00707	0.00032	0.29	0.0118	0.0004	0.34	DR
NJ6RQQ		0.00633	-0.00041	-0.37	0.0127	0.0013	1.15	XX
NNKXVD		0.00700	0.00026	0.23	0.0122	0.0008	0.70	OE
NPC426		0.00603	-0.00071	-0.64	0.00967	-0.0017	-1.55	OE
NRJAQD		0.00607	-0.00068	-0.61	0.0113	-0.0001	-0.05	OE
P2PLEU		0.00703	0.00029	0.26	0.0115	0.0001	0.10	OE
P4QQRE		0.00567	-0.00108	-0.97	0.00993	-0.0015	-1.31	IC

		Sample L69			Sample L70			
WebCode	Data Flag	Lab Mean	Diff. from Grand Mean	CPV	Lab Mean	Diff. from Grand Mean	CPV	Method
P7ZW8N		0.00643	-0.00031	-0.28	0.0106	-0.0008	-0.74	OE
PBUNLD		0.00800	0.00126	1.13	0.0128	0.0014	1.29	OE
PDLKB8		0.00653	-0.00021	-0.19	0.0109	-0.0005	-0.41	OE
PQ4G6A		0.00580	-0.00094	-0.85	0.0101	-0.0013	-1.13	OE
PQJZP8		0.00537	-0.00138	-1.24	0.00997	-0.0014	-1.28	IC
PRX8BN		0.00637	-0.00038	-0.34	0.0117	0.0003	0.25	OE
Q9GFPX		0.00833	0.00159	1.44	0.0127	0.0013	1.15	OE
QRWPTJ		0.00900	0.00226	2.04	0.0133	0.0019	1.74	GD
QT3ET8		0.00648	-0.00026	-0.24	0.0107	-0.0007	-0.62	GD
R8F3HV		0.00733	0.00059	0.53	0.0113	-0.0001	-0.11	IC
RA9VEZ		0.00667	-0.00008	-0.07	0.0112	-0.0002	-0.17	OE
RHNHN4		0.00546	-0.00128	-1.16	0.0105	-0.0009	-0.84	OE
RZJ8HC		0.00600	-0.00074	-0.67	0.0113	-0.0001	-0.11	OE
T68AZ3	X	0.0100	0.00326	2.94	0.0110	-0.0004	-0.35	IC
T7QXM3		0.00673	-0.00001	-0.01	0.0112	-0.0002	-0.14	OE
T8HUAC		0.00633	-0.00041	-0.37	0.0107	-0.0007	-0.59	IC
T8Z3ZR		0.00650	-0.00024	-0.22	0.0119	0.0005	0.46	IC
TZJHYZ		0.00810	0.00136	1.23	0.0127	0.0013	1.15	OE
U3LRHG		0.00950	0.00276	2.49	0.0130	0.0016	1.44	OE
UJ96YU		0.00600	-0.00074	-0.67	0.0103	-0.0011	-0.95	XX
UN4W8R		0.00597	-0.00078	-0.70	0.0102	-0.0012	-1.10	IC
UPDZ23		0.00683	0.00009	0.08	0.0115	0.0001	0.13	OE
V4BFHN		0.00700	0.00026	0.23	0.0113	-0.0001	-0.05	XX
VDCZHV		0.00703	0.00029	0.26	0.0119	0.0005	0.46	IC
VM2NDX		0.00583	-0.00091	-0.82	0.0102	-0.0012	-1.07	OE
VU3W4Y		0.00730	0.00056	0.50	0.0120	0.0006	0.52	OE
VU6QHX		0.00670	-0.00005	-0.04	0.0115	0.0001	0.05	OE
VWVTQ8	*	0.00967	0.00292	2.64	0.0143	0.0029	2.64	IC
VYXQ2Z		0.00560	-0.00114	-1.03	0.0102	-0.0012	-1.10	OE
W9XMCG		0.00563	-0.00111	-1.00	0.0108	-0.0006	-0.53	IC
WB4822		0.00600	-0.00074	-0.67	0.0104	-0.0010	-0.92	IC
WPNM8M		0.00693	0.00019	0.17	0.0118	0.0004	0.37	AE
WRDR4Z	X	0.0113	0.00456	4.11	0.0165	0.0051	4.55	OE
WVEXGK		0.00577	-0.00098	-0.88	0.0104	-0.0010	-0.86	OE
X366CV		0.00665	-0.00010	-0.09	0.0116	0.0002	0.15	OE
XD7BMW		0.00700	0.00026	0.23	0.0100	-0.0014	-1.25	XX
XL29E7	*	0.00700	0.00026	0.23	0.00900	-0.0024	-2.14	OE
YDNUV2		0.00757	0.00082	0.74	0.0113	-0.0001	-0.11	OE
YPJTYZ		0.00643	-0.00031	-0.28	0.0121	0.0007	0.64	OE
YQURVU		0.00617	-0.00058	-0.52	0.0104	-0.0010	-0.86	XX
YWGHHP	X	0.00233	-0.00441	-3.98	0.00700	-0.0044	-3.94	XX
YZFTDP		0.00727	0.00052	0.47	0.0114	0.0000	0.04	IC
ZC78RC		0.00833	0.00159	1.44	0.0130	0.0016	1.44	GD
ZD2N8V		0.00681	0.00007	0.06	0.0119	0.0005	0.44	OE
ZM9KVX		0.00650	-0.00024	-0.22	0.0115	0.0001	0.07	OE
ZRKBCL		0.00630	-0.00044	-0.40	0.0105	-0.0009	-0.77	OE
ZYLHZ3		0.00700	0.00026	0.23	0.0110	-0.0004	-0.35	OE

Summary Statistics

	Sample L69		Sample L70	
Grand Means	0.00674	Percent	0.0114	Percent
Stnd Dev Btwn Labs	0.00111	Percent	0.0011	Percent

Samples L69, L70 : AISI 1045, AISI 1045

Statistics based on 126 of 141 reporting participants

Key to Method Codes Reported by Participants

AE	Spectrometry - Atomic Emission (AES)	CL	Colorimetry
DR	Spectrometry - Direct Reading OE (DROES)	GD	Spectrometry - Glow Discharge (GDS)
IC	Spectrometry - Inductively Coupled Plasma (ICP)	OE	Spectrometry - Optical Emission (OES)
XX	Please Indicate Method Used for Current Element		

Comments on Assigned Data Flags for Test #1602

4CDPZY (M) - Participant did not submit data for sample L69.

6MPCPQ (X) - Data for both samples are low. Possible Systematic Error.

962X2C (X) - Data for sample L70 are high.

C3YELE (X) - Data for both samples are high. Possible Systematic Error.

CU8QW4 (X) - Data for sample L70 are low.

D7E2XY (X) - Data for sample L69 are high. Inconsistent within the determinations of both samples.

DKGRGH (X) - Data for sample L69 are high.

DT9842 (X) - Data for sample L70 are low. Inconsistent within the determinations of sample L69.

J4BEN3 (M) - Participant did not submit data for sample L69.

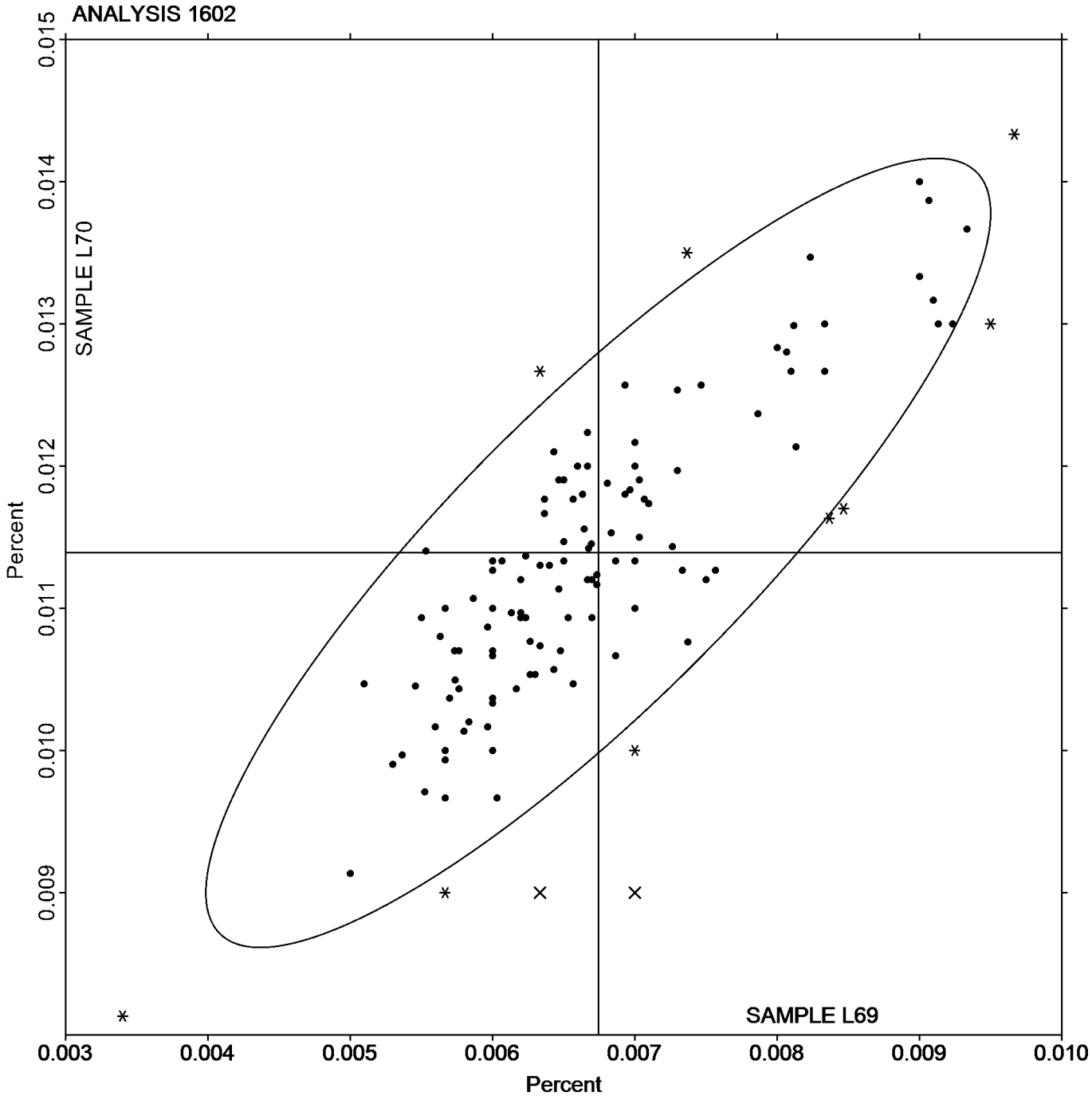
LCKF89 (X) - Data for both samples are low. Possible Systematic Error.

T68AZ3 (X) - Data for sample L69 are high.

WRDR4Z (X) - Data for both samples are high. Possible Systematic Error.

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

SAMPLE L69	SAMPLE L70
0.00674 Percent	0.0114 Percent



		Sample L69			Sample L70			
WebCode	Data Flag	Lab Mean	Diff. from Grand Mean	CPV	Lab Mean	Diff. from Grand Mean	CPV	Method
2AWLDB		0.0185	-0.0018	-1.28	0.0178	-0.0017	-1.10	OE
2GKXZT		0.0210	0.0007	0.49	0.0194	0.0000	0.00	OE
2HRC8Y		0.0217	0.0014	0.96	0.0207	0.0013	0.86	GD
2J6V3P		0.0216	0.0013	0.91	0.0216	0.0022	1.46	OE
2KE2HY		0.0183	-0.0020	-1.40	0.0163	-0.0031	-2.05	OE
2KJ9VT		0.0230	0.0027	1.90	0.0227	0.0032	2.14	OE
3JHXDV		0.0215	0.0012	0.82	0.0212	0.0017	1.14	OE
3KDPZ2		0.0201	-0.0002	-0.12	0.0190	-0.0005	-0.31	CI
3RC47W	X	0.0190	-0.0013	-0.93	0.0207	0.0012	0.82	OE
4434EQ		0.0202	-0.0001	-0.08	0.0192	-0.0002	-0.13	OE
46C9RE		0.0198	-0.0005	-0.38	0.0186	-0.0008	-0.55	OE
4CDPZY		0.0202	-0.0001	-0.10	0.0194	-0.0001	-0.04	XX
4XEJBA		0.0237	0.0034	2.38	0.0227	0.0032	2.14	OE
4YBU7D	X	0.0244	0.0041	2.87	0.0215	0.0021	1.37	OE
629VJF		0.0207	0.0004	0.25	0.0200	0.0006	0.37	OE
6MPCPQ		0.0210	0.0007	0.49	0.0201	0.0007	0.46	XX
73XQG8		0.0186	-0.0017	-1.21	0.0172	-0.0022	-1.46	CI
7LFM28		0.0204	0.0001	0.07	0.0194	-0.0001	-0.04	AE
7Q4AR7		0.0204	0.0001	0.07	0.0192	-0.0002	-0.13	OE
7WUJ36		0.0223	0.0020	1.43	0.0200	0.0005	0.35	OE
86HURQ		0.0203	0.0000	0.02	0.0192	-0.0002	-0.13	CI
8G3ZAN		0.0197	-0.0006	-0.45	0.0203	0.0009	0.59	OE
962X2C	X	0.0264	0.0061	4.31	0.0281	0.0087	5.76	OE
99VYYK		0.0189	-0.0014	-1.02	0.0175	-0.0019	-1.26	CI
9DV7L3		0.0223	0.0020	1.43	0.0204	0.0009	0.62	XX
9GUGFH		0.0215	0.0012	0.84	0.0195	0.0001	0.04	OE
9JKHL6		0.0187	-0.0016	-1.16	0.0188	-0.0007	-0.44	CO
9L4TGN		0.0230	0.0027	1.90	0.0220	0.0026	1.70	CO
9NU2FR		0.0213	0.0010	0.73	0.0201	0.0007	0.46	CI
9RB4R4		0.0193	-0.0010	-0.69	0.0179	-0.0015	-0.99	CI
9UL26L		0.0191	-0.0012	-0.88	0.0178	-0.0017	-1.10	AE
A2XP8L		0.0196	-0.0007	-0.48	0.0187	-0.0007	-0.49	AE
C3YA9Q		0.0193	-0.0010	-0.69	0.0183	-0.0011	-0.73	CI
C3YELE	X	0.0120	-0.0083	-5.88	0.0116	-0.0079	-5.21	OE
CBD7YJ		0.0192	-0.0011	-0.76	0.0183	-0.0011	-0.75	CI
CEA2FX		0.0206	0.0003	0.21	0.0193	-0.0001	-0.09	CO
CEYZUY		0.0207	0.0004	0.25	0.0193	-0.0001	-0.07	OE
CGY9X9		0.0196	-0.0007	-0.50	0.0185	-0.0010	-0.64	OE
CHXDE3		0.0193	-0.0010	-0.69	0.0183	-0.0011	-0.73	OE
CTVAJP		0.0197	-0.0006	-0.45	0.0193	-0.0001	-0.07	OE
CU8QW4	X	0.0163	-0.0040	-2.81	0.0140	-0.0054	-3.60	GD
D7E2XY		0.0217	0.0014	0.96	0.0203	0.0009	0.59	OE
D7YZUW		0.0200	-0.0003	-0.22	0.0200	0.0006	0.37	OE
D9N7C9	X	0.0162	-0.0041	-2.93	0.0166	-0.0028	-1.88	OE
DH7RFG		0.0173	-0.0030	-2.10	0.0173	-0.0021	-1.39	IR
DJJEVB		0.0197	-0.0006	-0.40	0.0200	0.0005	0.35	XX
DKGRGH		0.0197	-0.0006	-0.43	0.0177	-0.0017	-1.13	CO

		Sample L69			Sample L70			
WebCode	Data Flag	Lab Mean	Diff. from Grand Mean	CPV	Lab Mean	Diff. from Grand Mean	CPV	Method
DLALF8		0.0213	0.0010	0.73	0.0197	0.0002	0.15	OE
DNF4E3		0.0209	0.0006	0.40	0.0191	-0.0003	-0.20	OE
DT9842	*	0.0170	-0.0033	-2.34	0.0193	-0.0001	-0.07	OE
DWVPLL		0.0206	0.0003	0.18	0.0194	0.0000	-0.02	CI
EK984Y		0.0212	0.0009	0.63	0.0194	-0.0001	-0.04	OE
EYTPYN		0.0198	-0.0005	-0.36	0.0198	0.0004	0.24	OE
F6GPUU		0.0196	-0.0007	-0.52	0.0188	-0.0007	-0.44	OE
F7QPWG		0.0190	-0.0013	-0.93	0.0180	-0.0014	-0.95	GD
F8HXWJ		0.0207	0.0004	0.25	0.0200	0.0006	0.37	OE
FA84EV		0.0207	0.0004	0.25	0.0207	0.0012	0.82	OE
FCCRW7		0.0200	-0.0003	-0.24	0.0209	0.0014	0.95	OE
FEZ4VC		0.0202	-0.0001	-0.10	0.0190	-0.0004	-0.29	OE
FFVMWD		0.0190	-0.0013	-0.93	0.0180	-0.0015	-0.97	XX
FPMXBE		0.0193	-0.0010	-0.74	0.0191	-0.0003	-0.22	OE
FTHWGX	X	0.0307	0.0104	7.37	0.0286	0.0092	6.06	OE
G4JUQJ		0.0201	-0.0002	-0.17	0.0184	-0.0010	-0.68	AE
GY7VD4		0.0189	-0.0014	-1.02	0.0182	-0.0013	-0.84	CI
H7K4CK		0.0200	-0.0003	-0.22	0.0190	-0.0004	-0.29	OE
HBFPNG		0.0187	-0.0016	-1.16	0.0190	-0.0004	-0.29	OE
HHEK2L		0.0209	0.0006	0.40	0.0197	0.0003	0.18	CI
HJ4QGC		0.0229	0.0026	1.86	0.0226	0.0032	2.12	OE
HRF2TC	X	0.0121	-0.0082	-5.83	0.0139	-0.0055	-3.66	OE
J3FQAD		0.0193	-0.0010	-0.69	0.0193	-0.0001	-0.07	OE
J4BEN3		0.0182	-0.0021	-1.47	0.0175	-0.0019	-1.28	OE
J94HFK		0.0191	-0.0012	-0.88	0.0189	-0.0006	-0.38	OE
JVFECV		0.0187	-0.0016	-1.17	0.0177	-0.0017	-1.13	OE
K3TPYU		0.0217	0.0014	1.01	0.0189	-0.0006	-0.38	OE
K4P697		0.0221	0.0018	1.24	0.0203	0.0008	0.55	OE
KJMALA	X	0.0218	0.0015	1.03	0.0126	-0.0069	-4.55	OE
KNT624		0.0183	-0.0020	-1.40	0.0174	-0.0020	-1.35	OE
KU4YHU	X	0.0233	0.0030	2.14	0.0250	0.0056	3.68	XX
LCKF89	X	0.0104	-0.0099	-7.01	0.0102	-0.0092	-6.09	XX
LHLYY7		0.0216	0.0013	0.89	0.0196	0.0002	0.11	OE
LYWBYC	*	0.0209	0.0006	0.40	0.0221	0.0026	1.74	OE
MTXLKC		0.0196	-0.0007	-0.50	0.0189	-0.0006	-0.38	CI
MYL9FG		0.0203	0.0000	0.02	0.0200	0.0006	0.37	OE
NDG3C9		0.0207	0.0004	0.30	0.0196	0.0001	0.09	CI
NEBXTP		0.0205	0.0002	0.14	0.0187	-0.0007	-0.49	XX
NGYARV		0.0225	0.0022	1.55	0.0224	0.0029	1.94	DR
NJ6RQQ		0.0217	0.0014	0.96	0.0210	0.0016	1.04	XX
NNKXVD		0.0176	-0.0027	-1.94	0.0171	-0.0024	-1.57	OE
NPC426		0.0198	-0.0005	-0.36	0.0202	0.0007	0.48	OE
NRJAQD		0.0216	0.0013	0.91	0.0203	0.0008	0.55	OE
P2PLEU		0.0201	-0.0002	-0.17	0.0204	0.0009	0.62	OE
P4QQRE		0.0196	-0.0007	-0.52	0.0182	-0.0012	-0.82	CI
P7ZW8N		0.0219	0.0016	1.15	0.0223	0.0029	1.92	OE
PBUNLD	X	0.0245	0.0042	2.99	0.0254	0.0060	3.95	OE

		Sample L69			Sample L70			
WebCode	Data Flag	Lab Mean	Diff. from Grand Mean	CPV	Lab Mean	Diff. from Grand Mean	CPV	Method
PDLKB8		0.0176	-0.0027	-1.92	0.0168	-0.0027	-1.77	OE
PQ4G6A		0.0200	-0.0003	-0.22	0.0183	-0.0011	-0.73	OE
PQJZP8		0.0201	-0.0002	-0.15	0.0183	-0.0011	-0.73	CI
PRX8BN		0.0223	0.0020	1.43	0.0216	0.0022	1.43	OE
Q9GFPX		0.0210	0.0007	0.49	0.0193	-0.0001	-0.07	CI
QRWPTJ		0.0200	-0.0003	-0.22	0.0190	-0.0004	-0.29	GD
QT3ET8		0.0206	0.0003	0.21	0.0199	0.0005	0.31	GD
R8F3HV		0.0180	-0.0023	-1.63	0.0163	-0.0031	-2.05	CI
RA9VEZ		0.0206	0.0003	0.21	0.0203	0.0009	0.57	OE
RHNHN4		0.0204	0.0001	0.06	0.0194	-0.0001	-0.04	OE
RZJ8HC	*	0.0177	-0.0026	-1.82	0.0191	-0.0003	-0.20	IR
T68AZ3		0.0210	0.0007	0.49	0.0200	0.0006	0.37	IC
T7QXM3		0.0182	-0.0021	-1.47	0.0184	-0.0011	-0.71	OE
T8Z3ZR		0.0202	-0.0001	-0.10	0.0198	0.0003	0.22	CI
TZJHYZ		0.0227	0.0024	1.67	0.0217	0.0022	1.48	OE
U3LRHG		0.0210	0.0007	0.49	0.0210	0.0016	1.04	OE
UJ96YU		0.0233	0.0030	2.14	0.0220	0.0026	1.70	XX
UN4W8R		0.0195	-0.0008	-0.59	0.0188	-0.0006	-0.42	CI
UPDZ23	*	0.0239	0.0036	2.54	0.0202	0.0008	0.51	OE
V4BFHN		0.0230	0.0027	1.90	0.0207	0.0012	0.82	XX
VDCZHV		0.0184	-0.0019	-1.35	0.0172	-0.0022	-1.48	CI
VM2NDX		0.0219	0.0016	1.13	0.0222	0.0028	1.83	OE
VU3W4Y		0.0207	0.0004	0.25	0.0197	0.0003	0.20	OE
VU6QHX		0.0209	0.0006	0.40	0.0194	0.0000	-0.01	OE
VWVTQ8		0.0177	-0.0026	-1.87	0.0170	-0.0024	-1.61	CI
VYXQ2Z		0.0217	0.0014	0.96	0.0207	0.0012	0.82	CO
W9XMCG		0.0202	-0.0001	-0.10	0.0190	-0.0004	-0.27	CI
WB4822		0.0199	-0.0004	-0.31	0.0187	-0.0007	-0.46	CI
WPNM8M		0.0213	0.0010	0.73	0.0200	0.0005	0.35	XX
WRDR4Z		0.0207	0.0004	0.30	0.0199	0.0004	0.29	XX
WVEXGK		0.0191	-0.0012	-0.83	0.0180	-0.0014	-0.93	CI
X366CV		0.0213	0.0010	0.73	0.0221	0.0027	1.77	OE
XD7BMW	*	0.0223	0.0020	1.43	0.0187	-0.0008	-0.51	XX
XL29E7		0.0190	-0.0013	-0.93	0.0167	-0.0028	-1.83	OE
YDNUV2	X	0.0154	-0.0049	-3.45	0.0146	-0.0048	-3.18	CI
YHF7LQ		0.0190	-0.0013	-0.93	0.0190	-0.0004	-0.29	DR
YPJTYZ		0.0203	0.0000	0.02	0.0198	0.0004	0.26	OE
YQURVU		0.0192	-0.0011	-0.81	0.0183	-0.0011	-0.75	CO
YWGHHP		0.0193	-0.0010	-0.69	0.0193	-0.0001	-0.07	XX
YZFTDP		0.0180	-0.0023	-1.63	0.0171	-0.0024	-1.57	IC
ZC78RC		0.0233	0.0030	2.14	0.0230	0.0036	2.36	GD
ZD2N8V		0.0224	0.0021	1.49	0.0213	0.0018	1.21	OE
ZM9KVX		0.0234	0.0031	2.16	0.0230	0.0035	2.34	OE
ZRKBCL		0.0180	-0.0023	-1.63	0.0171	-0.0024	-1.57	OE
ZYLHZ3		0.0197	-0.0006	-0.45	0.0183	-0.0011	-0.73	OE

Summary Statistics

	Sample L69		Sample L70	
Grand Means	0.0203	Percent	0.0194	Percent
Stnd Dev Btwn Labs	0.0014	Percent	0.0015	Percent

Samples L69, L70 : AISI 1045, AISI 1045

Statistics based on 122 of 139 reporting participants

Key to Method Codes Reported by Participants

AE	Spectrometry - Atomic Emission (AES)	CI	Combustion / IR
CO	Combustion	DR	Spectrometry - Direct Reading OE (DROES)
GD	Spectrometry - Glow Discharge (GDS)	IC	Spectrometry - Inductively Coupled Plasma (ICP)
IR	IR (Absorption / Detection)	OE	Spectrometry - Optical Emission (OES)
XX	Please Indicate Method Used for Current Element		

Comments on Assigned Data Flags for Test #1603

3RC47W (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample L70.

4YBU7D (X) - Data for sample L69 are high.

962X2C (X) - Data for both samples are high. Possible Systematic Error.

C3YELE (X) - Data for both samples are low. Possible Systematic Error.

CU8QW4 (X) - Data for both samples are low. Possible Systematic Error.

D9N7C9 (X) - Data for sample L69 are low.

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

HRF2TC (X) - Data for both samples are low. Possible Systematic Error.

KJMALA (X) - Data for sample L70 are low. Inconsistent within the determinations of sample L69.

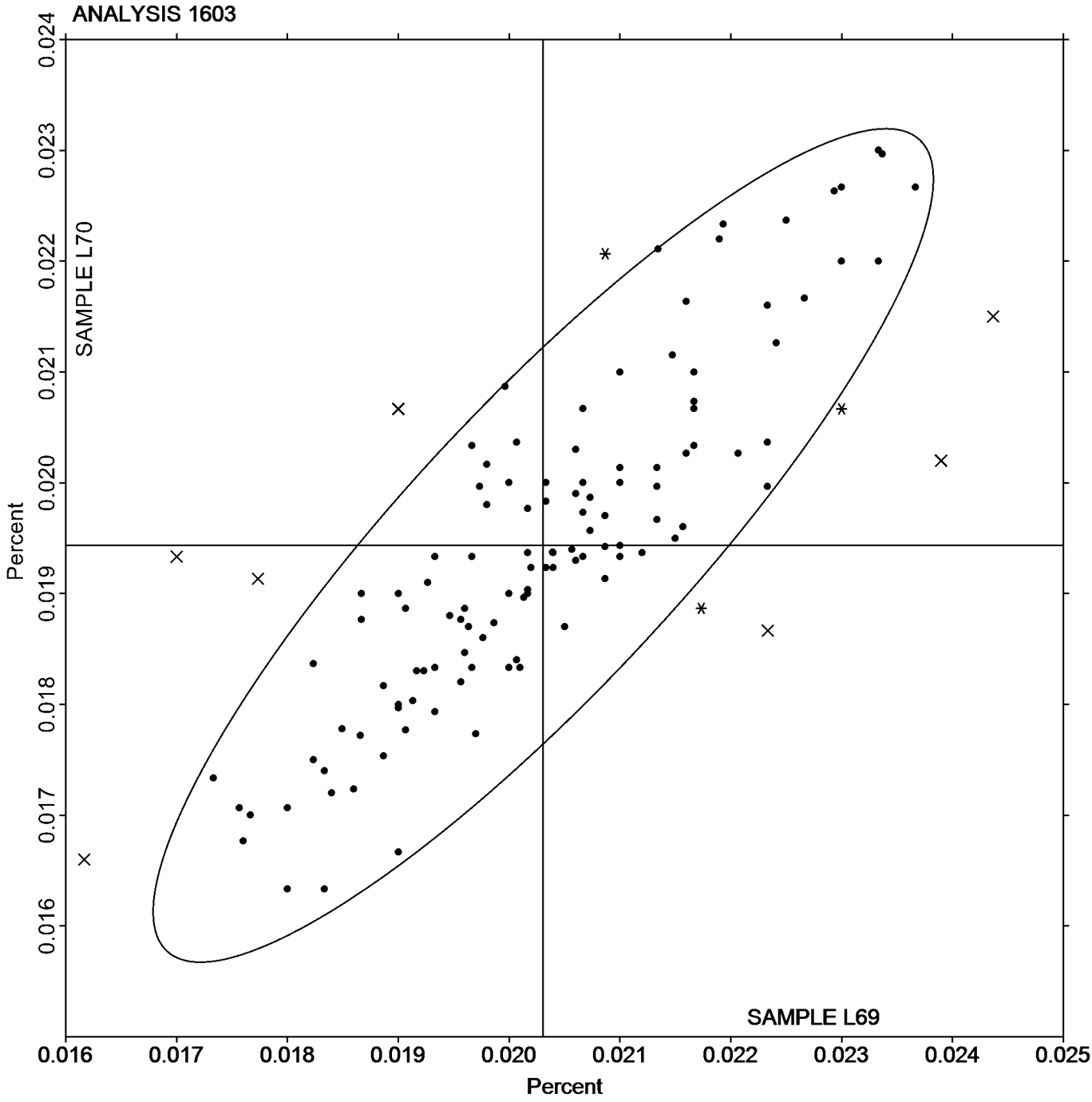
KU4YHU (X) - Data for sample L70 are high. Inconsistent within the determinations of sample L70.

LCKF89 (X) - Data for both samples are low. Possible Systematic Error.

PBUNLD (X) - Data for both samples are high. Possible Systematic Error. Inconsistent within the determinations of sample L69.

YDNUV2 (X) - Data for both samples are low. Possible Systematic Error.

SAMPLE L69	SAMPLE L70
0.0203 Percent	0.0194 Percent



		Sample L69			Sample L70			
WebCode	Data Flag	Lab Mean	Diff. from Grand Mean	CPV	Lab Mean	Diff. from Grand Mean	CPV	Method
2AWLDB		0.2519	-0.0166	-2.46	0.2691	-0.0157	-2.28	OE
2GKXZT		0.2770	0.0085	1.27	0.2913	0.0065	0.95	OE
2HRC8Y		0.2680	-0.0005	-0.07	0.2893	0.0045	0.66	GD
2J6V3P	*	0.2620	-0.0065	-0.96	0.2967	0.0119	1.73	OE
2KE2HY		0.2700	0.0015	0.23	0.2900	0.0052	0.76	OE
2KJ9VT	X	0.2343	-0.0341	-5.06	0.2497	-0.0351	-5.11	OE
2M68YP	*	0.2659	-0.0025	-0.38	0.2907	0.0059	0.86	OE
3JHXDV		0.2651	-0.0033	-0.50	0.2793	-0.0055	-0.80	OE
3KDPZ2		0.2673	-0.0011	-0.17	0.2843	-0.0005	-0.07	WD
3RC47W	*	0.2530	-0.0155	-2.29	0.2763	-0.0085	-1.23	OE
4434EQ		0.2640	-0.0045	-0.66	0.2810	-0.0038	-0.55	OE
46C9RE		0.2650	-0.0035	-0.51	0.2800	-0.0048	-0.70	OE
4XEJBA		0.2730	0.0045	0.67	0.2880	0.0032	0.46	OE
4YBU7D		0.2757	0.0072	1.07	0.2927	0.0079	1.14	OE
629VJF		0.2713	0.0029	0.43	0.2827	-0.0021	-0.31	OE
6MPCPQ	X	0.2503	-0.0181	-2.69	0.2627	-0.0221	-3.22	XX
73XQG8	X	0.2915	0.0230	3.42	0.3049	0.0201	2.92	IC
7LFM28		0.2779	0.0095	1.40	0.2953	0.0105	1.53	AE
7Q4AR7		0.2697	0.0012	0.18	0.2863	0.0015	0.22	OE
7WUJ36		0.2691	0.0007	0.10	0.2834	-0.0014	-0.21	OE
86HURQ		0.2700	0.0016	0.23	0.2869	0.0021	0.30	IC
8G3ZAN		0.2810	0.0125	1.86	0.3013	0.0165	2.41	OE
962X2C		0.2830	0.0145	2.16	0.2983	0.0135	1.97	OE
99VYYK		0.2715	0.0031	0.46	0.2930	0.0082	1.19	IC
9DV7L3		0.2590	-0.0095	-1.40	0.2740	-0.0108	-1.58	XX
9GUGFH		0.2752	0.0067	0.99	0.2923	0.0075	1.09	OE
9JKHL6		0.2710	0.0025	0.38	0.2900	0.0052	0.76	OE
9L4TGN		0.2663	-0.0021	-0.32	0.2837	-0.0011	-0.17	OE
9NU2FR		0.2663	-0.0021	-0.32	0.2827	-0.0021	-0.31	OE
9RB4R4		0.2680	-0.0005	-0.07	0.2833	-0.0015	-0.21	OE
9UL26L		0.2680	-0.0005	-0.07	0.2833	-0.0015	-0.21	AE
A2XP8L		0.2733	0.0049	0.72	0.2890	0.0042	0.61	AE
C3YA9Q		0.2663	-0.0021	-0.32	0.2843	-0.0005	-0.07	IC
C3YELE		0.2563	-0.0121	-1.80	0.2733	-0.0115	-1.67	OE
CBD7YJ		0.2637	-0.0048	-0.71	0.2800	-0.0048	-0.70	IC
CEA2FX		0.2658	-0.0027	-0.39	0.2838	-0.0010	-0.15	OE
CEYZUY		0.2577	-0.0108	-1.60	0.2733	-0.0115	-1.67	XX
CGY9X9		0.2566	-0.0119	-1.76	0.2751	-0.0097	-1.42	OE
CHXDE3		0.2740	0.0055	0.82	0.2913	0.0065	0.95	OE
CTVAJP		0.2713	0.0029	0.43	0.2827	-0.0021	-0.31	OE
CU8QW4		0.2647	-0.0038	-0.56	0.2813	-0.0035	-0.51	GD
D7E2XY		0.2703	0.0019	0.28	0.2797	-0.0051	-0.75	OE
D7YZUW		0.2670	-0.0015	-0.22	0.2830	-0.0018	-0.26	OE
D9N7C9	X	0.2447	-0.0238	-3.52	0.2543	-0.0305	-4.44	OE
DH7RFG		0.2673	-0.0011	-0.17	0.2857	0.0009	0.13	IC
DJJEVB		0.2731	0.0047	0.69	0.2874	0.0026	0.38	XX
DKGRGH		0.2613	-0.0071	-1.06	0.2760	-0.0088	-1.28	OE

		Sample L69			Sample L70			
WebCode	Data Flag	Lab Mean	Diff. from Grand Mean	CPV	Lab Mean	Diff. from Grand Mean	CPV	Method
DLALF8		0.2570	-0.0115	-1.70	0.2703	-0.0145	-2.11	OE
DNF4E3		0.2698	0.0013	0.19	0.2818	-0.0030	-0.44	OE
DT9842	*	0.2823	0.0139	2.06	0.2920	0.0072	1.05	OE
DWVPLL		0.2663	-0.0021	-0.32	0.2817	-0.0031	-0.46	OE
EK984Y		0.2717	0.0032	0.48	0.2907	0.0059	0.85	OE
EXW8Y8	X	0.2643	-0.0041	-0.61	0.2633	-0.0215	-3.13	OE
EYTPYN		0.2701	0.0016	0.24	0.2865	0.0017	0.25	OE
F6GPUU		0.2693	0.0008	0.12	0.2838	-0.0010	-0.15	OE
F7QPWG	X	0.2900	0.0215	3.19	0.3100	0.0252	3.67	GD
F8HXWJ		0.2779	0.0095	1.40	0.2947	0.0099	1.44	OE
FA84EV		0.2613	-0.0071	-1.06	0.2770	-0.0078	-1.14	OE
FCCRW7		0.2796	0.0112	1.66	0.2968	0.0120	1.74	OE
FEZ4VC		0.2657	-0.0028	-0.41	0.2807	-0.0041	-0.60	OE
FFVMWD		0.2650	-0.0035	-0.51	0.2840	-0.0008	-0.12	OE
FPMXBE		0.2832	0.0147	2.19	0.3015	0.0167	2.43	OE
FTHWGX		0.2574	-0.0111	-1.64	0.2738	-0.0111	-1.61	OE
G4JUQJ		0.2593	-0.0091	-1.35	0.2743	-0.0105	-1.52	AE
GY7VD4		0.2727	0.0042	0.62	0.2877	0.0029	0.42	OE
H7K4CK		0.2640	-0.0045	-0.66	0.2830	-0.0018	-0.26	OE
HBFPNG		0.2700	0.0015	0.23	0.2900	0.0052	0.76	OE
HHEK2L		0.2607	-0.0078	-1.16	0.2740	-0.0108	-1.57	CL
HJ4QGC		0.2756	0.0072	1.06	0.2856	0.0008	0.12	OE
HRF2TC	X	0.2887	0.0202	3.00	0.3087	0.0239	3.47	OE
J3FQAD		0.2580	-0.0105	-1.55	0.2753	-0.0095	-1.38	OE
J4BEN3		0.2670	-0.0015	-0.22	0.2837	-0.0011	-0.17	OE
J94HFK		0.2697	0.0012	0.18	0.2863	0.0015	0.22	OE
JVFECV		0.2542	-0.0142	-2.11	0.2738	-0.0110	-1.61	OE
K3TPYU		0.2655	-0.0030	-0.44	0.2831	-0.0017	-0.25	OE
K4P697		0.2680	-0.0005	-0.07	0.2837	-0.0011	-0.17	OE
KJMALA		0.2697	0.0012	0.18	0.2863	0.0015	0.22	OE
KNT624		0.2755	0.0070	1.04	0.2930	0.0082	1.19	OE
KU4YHU		0.2763	0.0079	1.17	0.2953	0.0105	1.53	XX
LCKF89		0.2637	-0.0048	-0.71	0.2800	-0.0048	-0.70	XX
LHLYY7		0.2750	0.0065	0.97	0.2903	0.0055	0.80	OE
LYWBYC		0.2683	-0.0001	-0.02	0.2870	0.0022	0.32	OE
MTXLKC		0.2622	-0.0063	-0.93	0.2789	-0.0059	-0.85	OE
MYL9FG		0.2687	0.0002	0.03	0.2840	-0.0008	-0.12	OE
NDG3C9		0.2673	-0.0011	-0.17	0.2867	0.0019	0.27	OE
NEBXTP		0.2621	-0.0063	-0.94	0.2820	-0.0028	-0.41	XX
NGYARV	X	0.2914	0.0229	3.40	0.3068	0.0220	3.20	DR
NJ6RQQ	*	0.2877	0.0192	2.85	0.3047	0.0199	2.89	XX
NNKXVD		0.2796	0.0111	1.65	0.2955	0.0107	1.56	OE
NPC426		0.2657	-0.0028	-0.41	0.2823	-0.0025	-0.36	OE
NRJAQD		0.2630	-0.0055	-0.81	0.2797	-0.0051	-0.75	OE
P2PLEU		0.2664	-0.0021	-0.31	0.2810	-0.0038	-0.55	OE
P4QQRE		0.2587	-0.0098	-1.45	0.2720	-0.0128	-1.86	IC
P7ZW8N	*	0.2671	-0.0013	-0.20	0.2713	-0.0135	-1.97	OE

		Sample L69			Sample L70			
WebCode	Data Flag	Lab Mean	Diff. from Grand Mean	CPV	Lab Mean	Diff. from Grand Mean	CPV	Method
PBUNLD	X	0.2863	0.0179	2.65	0.3083	0.0235	3.42	OE
PDLKB8		0.2660	-0.0025	-0.37	0.2813	-0.0035	-0.51	OE
PQ4G6A		0.2654	-0.0031	-0.46	0.2817	-0.0031	-0.45	OE
PQJZP8	X	0.2567	-0.0118	-1.75	0.2830	-0.0018	-0.26	GR
PRX8BN		0.2738	0.0054	0.80	0.2916	0.0068	0.99	OE
Q9GFPX		0.2667	-0.0018	-0.27	0.2830	-0.0018	-0.26	OE
QRWPTJ		0.2797	0.0112	1.66	0.2990	0.0142	2.07	GD
QT3ET8		0.2720	0.0035	0.52	0.2870	0.0022	0.32	GD
R8F3HV	X	0.2590	-0.0095	-1.40	0.2657	-0.0191	-2.79	IC
RA9VEZ		0.2657	-0.0028	-0.41	0.2833	-0.0015	-0.21	OE
RHNHN4		0.2549	-0.0136	-2.01	0.2758	-0.0090	-1.31	OE
RZJ8HC		0.2691	0.0006	0.09	0.2858	0.0010	0.15	OE
T68AZ3	X	0.2370	-0.0315	-4.67	0.2630	-0.0218	-3.17	IC
T7QXM3		0.2651	-0.0033	-0.49	0.2821	-0.0027	-0.39	OE
T8HUAC		0.2667	-0.0018	-0.27	0.2831	-0.0017	-0.24	IC
T8Z3ZR		0.2677	-0.0008	-0.12	0.2850	0.0002	0.03	IC
TZJHYZ	*	0.2700	0.0015	0.23	0.2730	-0.0118	-1.72	OE
U3LRHG		0.2750	0.0065	0.97	0.2900	0.0052	0.76	OE
UJ96YU		0.2620	-0.0065	-0.96	0.2753	-0.0095	-1.38	XX
UN4W8R		0.2737	0.0052	0.77	0.2877	0.0029	0.42	XX
UPDZ23		0.2631	-0.0054	-0.80	0.2837	-0.0011	-0.16	OE
V4BFHN		0.2720	0.0035	0.52	0.2887	0.0039	0.56	XX
VDCZHV		0.2680	-0.0005	-0.07	0.2876	0.0028	0.41	GR
VM2NDX	*	0.2743	0.0059	0.87	0.2823	-0.0025	-0.36	OE
VU3W4Y		0.2713	0.0029	0.43	0.2857	0.0009	0.13	OE
VU6QHX		0.2711	0.0026	0.38	0.2831	-0.0017	-0.25	OE
VWVTQ8		0.2783	0.0099	1.46	0.2910	0.0062	0.90	IC
VYXQ2Z		0.2783	0.0099	1.46	0.2937	0.0089	1.29	OE
W9XMCG		0.2657	-0.0028	-0.41	0.2850	0.0002	0.03	IC
WB4822		0.2641	-0.0044	-0.65	0.2776	-0.0072	-1.05	IC
WPNM8M		0.2660	-0.0025	-0.37	0.2857	0.0009	0.13	AE
WRDR4Z		0.2597	-0.0088	-1.30	0.2753	-0.0095	-1.38	OE
WVEXGK		0.2724	0.0039	0.58	0.2876	0.0028	0.40	OE
X366CV		0.2714	0.0029	0.43	0.2888	0.0040	0.58	OE
XD7BMW		0.2687	0.0002	0.03	0.2843	-0.0005	-0.07	XX
XL29E7		0.2657	-0.0028	-0.41	0.2820	-0.0028	-0.41	OE
YDNUV2		0.2637	-0.0048	-0.71	0.2803	-0.0045	-0.65	OE
YHF7LQ		0.2707	0.0022	0.33	0.2863	0.0015	0.22	DR
YPJTYZ		0.2577	-0.0108	-1.60	0.2777	-0.0071	-1.04	OE
YQURVU		0.2643	-0.0041	-0.61	0.2787	-0.0061	-0.89	IC
YWGHHP		0.2870	0.0185	2.75	0.3017	0.0169	2.45	XX
YZFTDP		0.2767	0.0082	1.22	0.2890	0.0042	0.61	IC
ZC78RC		0.2700	0.0015	0.23	0.2883	0.0035	0.51	GD
ZD2N8V		0.2696	0.0011	0.16	0.2840	-0.0008	-0.12	OE
ZM9KVX		0.2760	0.0075	1.12	0.2930	0.0082	1.19	OE
ZRKBCL		0.2728	0.0043	0.64	0.2852	0.0004	0.05	OE
ZYLHZ3		0.2630	-0.0055	-0.81	0.2807	-0.0041	-0.60	OE

Summary Statistics

	Sample L69		Sample L70	
Grand Means	0.2685	Percent	0.2848	Percent
Stnd Dev Btwn Labs	0.0067	Percent	0.0069	Percent

Samples L69, L70 : AISI 1045, AISI 1045

Statistics based on 122 of 141 reporting participants

Key to Method Codes Reported by Participants

AE	Spectrometry - Atomic Emission (AES)	CL	Colorimetry
DR	Spectrometry - Direct Reading OE (DROES)	GD	Spectrometry - Glow Discharge (GDS)
GR	Gravimetry	IC	Spectrometry - Inductively Coupled Plasma (ICP)
OE	Spectrometry - Optical Emission (OES)	WD	X-Ray Fluorescence - Wavelength Dispersive (WDX)
XX	Please Indicate Method Used for Current Element		

Comments on Assigned Data Flags for Test #1604

2KJ9VT (X) - Data for both samples are low. Possible Systematic Error.

6MPCPQ (X) - Data for sample L70 are low.

73XQG8 (X) - Data for both samples are high. Possible Systematic Error.

D9N7C9 (X) - Data for both samples are low. Possible Systematic Error.

EXW8Y8 (X) - Data for sample L70 are low.

F7QPWG (X) - Data for both samples are high. Possible Systematic Error.

HRF2TC (X) - Data for both samples are high. Possible Systematic Error. Inconsistent within the determinations of both samples.

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

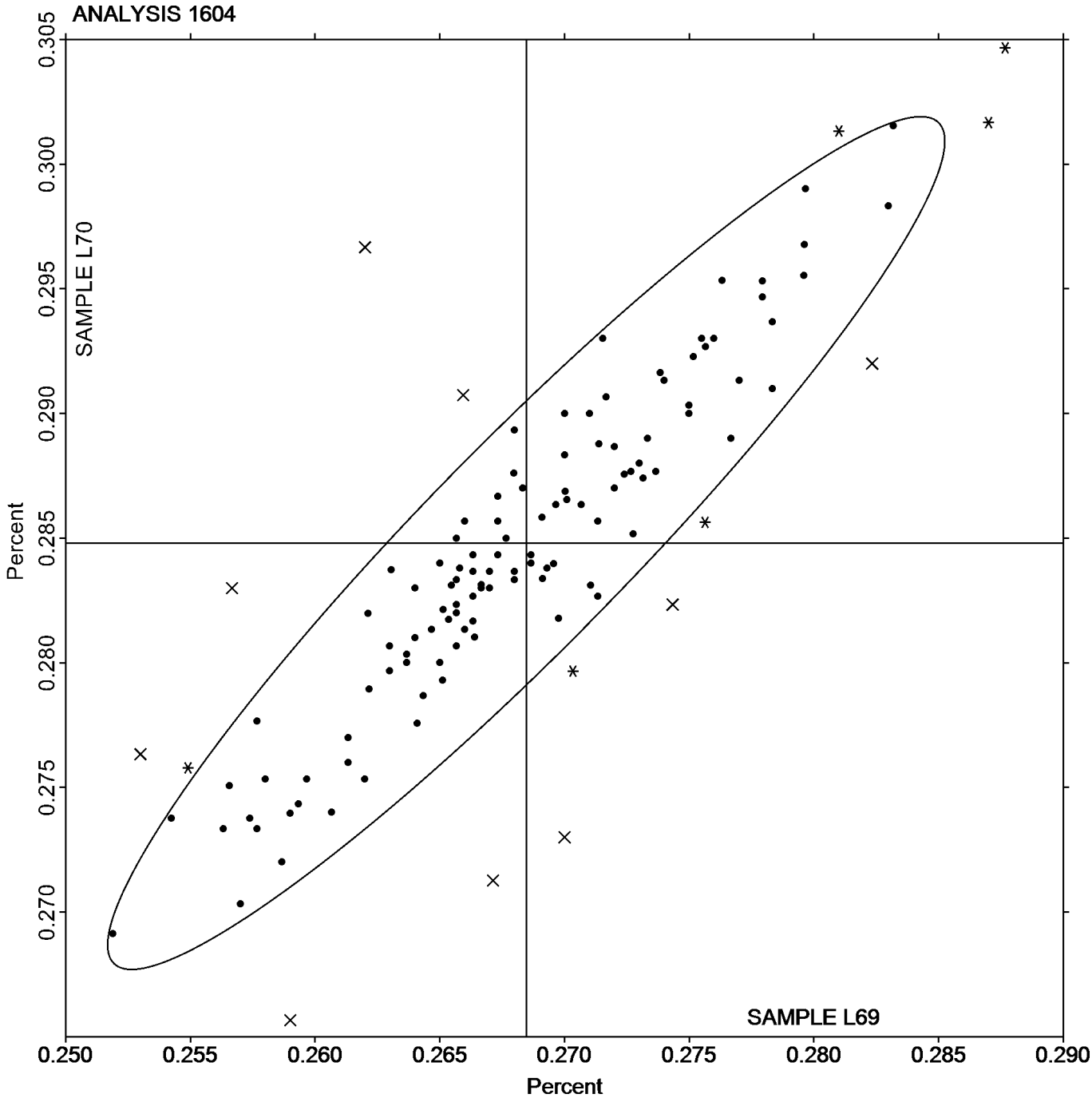
PBUNLD (X) - Data for sample L70 are high.

PQJZP8 (X) - Inconsistent in testing between samples. Inconsistent within the determinations of both samples.

R8F3HV (X) - Data for sample L70 are low.

T68AZ3 (X) - Data for both samples are low. Possible Systematic Error.

SAMPLE L69	SAMPLE L70
0.2685 Percent	0.2848 Percent



		Sample L69			Sample L70			
WebCode	Data Flag	Lab Mean	Diff. from Grand Mean	CPV	Lab Mean	Diff. from Grand Mean	CPV	Method
2AWLDB		0.0279	-0.0022	-1.59	0.0307	-0.0017	-1.17	OE
2GKXZT		0.0311	0.0010	0.76	0.0332	0.0008	0.54	OE
2HRC8Y		0.0304	0.0003	0.25	0.0329	0.0005	0.35	GD
2J6V3P	X	0.0347	0.0047	3.42	0.0363	0.0039	2.74	OE
2KE2HY		0.0320	0.0019	1.42	0.0340	0.0016	1.12	OE
2KJ9VT		0.0310	0.0009	0.69	0.0337	0.0013	0.89	OE
2M68YP		0.0301	0.0000	0.01	0.0327	0.0003	0.19	OE
3JHXDV		0.0295	-0.0006	-0.40	0.0321	-0.0003	-0.24	OE
3KDPZ2		0.0305	0.0004	0.30	0.0329	0.0005	0.33	WD
3RC47W	X	0.0333	0.0033	2.39	0.0370	0.0046	3.23	OE
4434EQ		0.0304	0.0003	0.23	0.0331	0.0007	0.49	OE
46C9RE		0.0294	-0.0007	-0.48	0.0321	-0.0003	-0.19	OE
4CDPZY		0.0306	0.0005	0.38	0.0325	0.0001	0.09	XX
4XEJBA		0.0297	-0.0004	-0.28	0.0320	-0.0004	-0.28	OE
4YBU7D	X	0.0423	0.0122	8.91	0.0430	0.0106	7.44	OE
629VJF		0.0307	0.0006	0.45	0.0327	0.0003	0.19	OE
6MPCPQ	*	0.0260	-0.0041	-2.96	0.0283	-0.0041	-2.85	XX
73XQG8		0.0285	-0.0016	-1.16	0.0306	-0.0018	-1.26	IC
7LFM28		0.0309	0.0008	0.59	0.0334	0.0010	0.73	AE
7Q4AR7		0.0305	0.0004	0.30	0.0328	0.0004	0.28	OE
7WUJ36		0.0291	-0.0010	-0.69	0.0312	-0.0012	-0.84	OE
86HURQ		0.0300	-0.0001	-0.06	0.0321	-0.0003	-0.19	IC
8G3ZAN		0.0297	-0.0004	-0.28	0.0320	-0.0004	-0.28	OE
962X2C		0.0332	0.0031	2.27	0.0351	0.0027	1.92	OE
99VYYK	*	0.0330	0.0029	2.15	0.0349	0.0025	1.76	IC
9DV7L3		0.0305	0.0004	0.33	0.0327	0.0003	0.21	XX
9GUGFH		0.0321	0.0020	1.47	0.0344	0.0020	1.40	OE
9JKHL6		0.0321	0.0020	1.49	0.0347	0.0023	1.61	OE
9L4TGN		0.0307	0.0006	0.45	0.0330	0.0006	0.42	OE
9NU2FR		0.0310	0.0009	0.69	0.0330	0.0006	0.42	OE
9RB4R4		0.0306	0.0005	0.40	0.0327	0.0003	0.21	OE
9UL26L		0.0294	-0.0007	-0.48	0.0316	-0.0008	-0.58	AE
A2XP8L		0.0299	-0.0001	-0.09	0.0320	-0.0004	-0.28	AE
AMFWLZ	X	0.0250	-0.0051	-3.68	0.0300	-0.0024	-1.68	AA
C3YA9Q		0.0307	0.0006	0.45	0.0330	0.0006	0.42	IC
C3YELE	X	0.0377	0.0076	5.58	0.0437	0.0113	7.91	OE
CBD7YJ		0.0317	0.0017	1.23	0.0338	0.0014	1.01	IC
CEA2FX		0.0304	0.0004	0.28	0.0328	0.0004	0.26	OE
CEYZUY		0.0277	-0.0024	-1.74	0.0297	-0.0027	-1.92	XX
CGY9X9		0.0288	-0.0012	-0.89	0.0309	-0.0015	-1.05	OE
CHXDE3	*	0.0307	0.0006	0.45	0.0353	0.0029	2.06	OE
CTVAJP		0.0303	0.0003	0.21	0.0323	-0.0001	-0.05	OE
CU8QW4		0.0300	-0.0001	-0.04	0.0333	0.0009	0.66	GD
D7E2XY	X	0.0250	-0.0051	-3.68	0.0297	-0.0027	-1.92	OE
D7YZUW		0.0290	-0.0011	-0.77	0.0320	-0.0004	-0.28	OE
D9N7C9	X	0.0226	-0.0074	-5.41	0.0253	-0.0071	-5.00	OE
DH7RFG	X	0.0233	-0.0067	-4.90	0.0283	-0.0041	-2.85	IC

		Sample L69			Sample L70			
WebCode	Data Flag	Lab Mean	Diff. from Grand Mean	CPV	Lab Mean	Diff. from Grand Mean	CPV	Method
DJJEVB		0.0312	0.0012	0.85	0.0334	0.0010	0.70	XX
DKGRGH	X	0.0260	-0.0041	-2.96	0.0277	-0.0047	-3.32	OE
DLALF8		0.0297	-0.0004	-0.28	0.0320	-0.0004	-0.28	OE
DNF4E3		0.0295	-0.0006	-0.43	0.0314	-0.0010	-0.70	OE
DWVPLL		0.0298	-0.0002	-0.16	0.0318	-0.0006	-0.40	OE
EK984Y		0.0293	-0.0008	-0.55	0.0314	-0.0010	-0.68	OE
EXW8Y8	*	0.0327	0.0026	1.91	0.0318	-0.0006	-0.42	OE
EYTPYN		0.0303	0.0002	0.16	0.0325	0.0001	0.07	OE
F6GPUU		0.0309	0.0008	0.62	0.0332	0.0008	0.59	OE
F7QPWG		0.0300	-0.0001	-0.04	0.0327	0.0003	0.19	GD
F8HXWJ		0.0285	-0.0015	-1.11	0.0307	-0.0017	-1.19	OE
FA84EV		0.0307	0.0006	0.47	0.0330	0.0006	0.42	OE
FCCRW7		0.0297	-0.0004	-0.28	0.0320	-0.0004	-0.26	OE
FEZ4VC		0.0304	0.0004	0.28	0.0323	-0.0001	-0.09	OE
FFVMWD		0.0297	-0.0004	-0.28	0.0317	-0.0007	-0.51	OE
FPMXBE		0.0307	0.0006	0.47	0.0327	0.0003	0.19	OE
FTHWGX		0.0293	-0.0007	-0.53	0.0316	-0.0008	-0.57	OE
G4JUQJ		0.0306	0.0005	0.38	0.0327	0.0003	0.21	AE
GY7VD4		0.0334	0.0033	2.42	0.0359	0.0035	2.43	OE
HBFPNG	*	0.0300	-0.0001	-0.04	0.0300	-0.0024	-1.68	OE
HHEK2L		0.0289	-0.0012	-0.86	0.0317	-0.0007	-0.51	IC
HJ4QGC		0.0302	0.0002	0.13	0.0321	-0.0003	-0.21	OE
HRF2TC		0.0317	0.0017	1.23	0.0346	0.0022	1.57	OE
J3FQAD		0.0273	-0.0027	-1.98	0.0300	-0.0024	-1.68	OE
J4BEN3		0.0312	0.0011	0.84	0.0338	0.0014	0.96	OE
J94HFK		0.0288	-0.0012	-0.89	0.0314	-0.0010	-0.68	OE
JVFECV		0.0266	-0.0035	-2.54	0.0293	-0.0031	-2.20	OE
K3TPYU		0.0313	0.0012	0.91	0.0335	0.0011	0.75	OE
K4P697		0.0331	0.0030	2.22	0.0353	0.0029	2.01	OE
KJMALA		0.0309	0.0009	0.64	0.0336	0.0012	0.82	OE
KNT624		0.0304	0.0004	0.28	0.0319	-0.0005	-0.33	OE
KU4YHU		0.0303	0.0003	0.21	0.0330	0.0006	0.42	XX
LCKF89		0.0270	-0.0031	-2.25	0.0288	-0.0036	-2.50	XX
LHLYY7		0.0299	-0.0001	-0.09	0.0323	-0.0001	-0.09	OE
LYWBYC	*	0.0313	0.0012	0.89	0.0345	0.0021	1.47	OE
MTXLKC		0.0317	0.0016	1.18	0.0349	0.0025	1.73	WD
MYL9FG	X	0.0287	-0.0014	-1.01	0.0323	-0.0001	-0.05	OE
NDG3C9	*	0.0317	0.0016	1.18	0.0320	-0.0004	-0.28	OE
NEBXTP		0.0301	0.0001	0.06	0.0324	0.0000	-0.02	XX
NGYARV		0.0295	-0.0006	-0.43	0.0324	0.0000	0.00	DR
NJ6RQQ		0.0303	0.0003	0.21	0.0330	0.0006	0.42	XX
NNKXVD		0.0303	0.0002	0.16	0.0327	0.0003	0.23	OE
NPC426		0.0300	-0.0001	-0.04	0.0330	0.0006	0.40	OE
NRJAQD		0.0289	-0.0012	-0.86	0.0313	-0.0011	-0.79	OE
P2PLEU		0.0299	-0.0002	-0.13	0.0327	0.0003	0.23	OE
P4QQRE		0.0291	-0.0009	-0.67	0.0313	-0.0011	-0.77	IC
P7ZW8N		0.0321	0.0020	1.49	0.0343	0.0019	1.33	OE

		Sample L69			Sample L70			
WebCode	Data Flag	Lab Mean	Diff. from Grand Mean	CPV	Lab Mean	Diff. from Grand Mean	CPV	Method
PBUNLD		0.0312	0.0011	0.84	0.0339	0.0015	1.08	OE
PDLKB8		0.0270	-0.0031	-2.23	0.0290	-0.0034	-2.38	OE
PQ4G6A		0.0309	0.0008	0.62	0.0333	0.0009	0.66	OE
PQJZP8		0.0293	-0.0008	-0.55	0.0320	-0.0004	-0.28	IC
PRX8BN		0.0305	0.0005	0.35	0.0326	0.0002	0.12	OE
Q9GFPX		0.0287	-0.0014	-1.01	0.0313	-0.0011	-0.75	OE
QRWPTJ		0.0310	0.0009	0.69	0.0343	0.0019	1.36	GD
QT3ET8		0.0286	-0.0015	-1.06	0.0307	-0.0017	-1.19	GD
R8F3HV		0.0304	0.0003	0.23	0.0324	0.0000	-0.02	IC
RA9VEZ		0.0300	0.0000	-0.01	0.0325	0.0001	0.09	OE
RHNHN4		0.0279	-0.0022	-1.58	0.0302	-0.0022	-1.54	OE
RZJ8HC		0.0302	0.0001	0.11	0.0323	-0.0001	-0.09	OE
T68AZ3		0.0290	-0.0011	-0.77	0.0310	-0.0014	-0.98	IC
T7QXM3		0.0297	-0.0004	-0.26	0.0317	-0.0007	-0.51	OE
T8HUAC		0.0308	0.0007	0.55	0.0330	0.0006	0.42	IC
T8Z3ZR	X	0.0287	-0.0014	-1.01	0.0323	-0.0001	-0.05	IC
TZJHYZ	*	0.0260	-0.0041	-2.96	0.0280	-0.0044	-3.09	OE
U3LRHG		0.0320	0.0019	1.42	0.0340	0.0016	1.12	OE
UJ96YU		0.0290	-0.0011	-0.77	0.0310	-0.0014	-0.98	XX
UN4W8R		0.0277	-0.0023	-1.69	0.0295	-0.0029	-2.06	IC
UPDZ23		0.0292	-0.0009	-0.65	0.0318	-0.0006	-0.42	OE
V4BFHN	X	0.0350	0.0049	3.61	0.0393	0.0069	4.87	XX
VDCZHV		0.0302	0.0001	0.08	0.0322	-0.0002	-0.16	IC
VM2NDX	*	0.0302	0.0001	0.08	0.0307	-0.0017	-1.17	OE
VU3W4Y		0.0310	0.0009	0.69	0.0330	0.0006	0.42	OE
VWVTQ8		0.0303	0.0003	0.21	0.0327	0.0003	0.19	XX
VYXQ2Z		0.0311	0.0011	0.79	0.0337	0.0013	0.89	OE
W9XMCG		0.0300	-0.0001	-0.04	0.0323	-0.0001	-0.09	IC
WB4822		0.0301	0.0000	0.01	0.0322	-0.0002	-0.12	IC
WPNM8M		0.0307	0.0006	0.45	0.0329	0.0005	0.38	AE
WRDR4Z		0.0305	0.0005	0.35	0.0330	0.0006	0.42	OE
WVEXGK		0.0294	-0.0007	-0.50	0.0324	0.0000	0.02	OE
X366CV		0.0305	0.0005	0.35	0.0326	0.0002	0.16	OE
XD7BMW		0.0300	-0.0001	-0.04	0.0323	-0.0001	-0.05	XX
XL29E7		0.0290	-0.0011	-0.77	0.0320	-0.0004	-0.28	OE
YDNUV2		0.0312	0.0011	0.84	0.0338	0.0014	0.96	OE
YPJTYZ	*	0.0307	0.0006	0.45	0.0310	-0.0014	-0.98	OE
YQURVU		0.0305	0.0005	0.35	0.0328	0.0004	0.28	IC
YWGHHP		0.0317	0.0016	1.18	0.0343	0.0019	1.36	XX
YZFTDP		0.0298	-0.0003	-0.18	0.0321	-0.0003	-0.23	IC
ZC78RC		0.0323	0.0023	1.66	0.0350	0.0026	1.83	GD
ZD2N8V		0.0304	0.0003	0.23	0.0326	0.0002	0.13	OE
ZHURVT	X	0.0350	0.0049	3.61	0.0343	0.0019	1.36	XR
ZM9KVX		0.0289	-0.0012	-0.84	0.0308	-0.0016	-1.10	OE
ZRKBCL		0.0277	-0.0024	-1.72	0.0302	-0.0022	-1.57	OE
ZYLHZ3		0.0287	-0.0014	-1.01	0.0313	-0.0011	-0.75	OE

Summary Statistics

	Sample L69		Sample L70	
Grand Means	0.0301	Percent	0.0324	Percent
Stnd Dev Btwn Labs	0.0014	Percent	0.0014	Percent

Samples L69, L70 : AISI 1045, AISI 1045

Statistics based on 121 of 140 reporting participants

Key to Method Codes Reported by Participants

AA	Spectrometry - Atomic Absorption (AAS)	AE	Spectrometry - Atomic Emission (AES)
DR	Spectrometry - Direct Reading OE (DROES)	GD	Spectrometry - Glow Discharge (GDS)
IC	Spectrometry - Inductively Coupled Plasma (ICP)	OE	Spectrometry - Optical Emission (OES)
WD	X-Ray Fluorescence - Wavelength Dispersive (WDX)	XR	X-Ray Fluorescence - ED or WD not specified
XX	Please Indicate Method Used for Current Element		

Comments on Assigned Data Flags for Test #1605

2J6V3P (X) - Data for sample L69 are high.

3RC47W (X) - Data for sample L70 are high. Inconsistent within the determinations of both samples.

4YBU7D (X) - Data for both samples are high. Possible Systematic Error.

AMFWLZ (X) - Data for sample L69 are low. Inconsistent within the determinations of sample L69.

C3YELE (X) - Data for both samples are high. Possible Systematic Error. Inconsistent within the determinations of sample L69.

D7E2XY (X) - Data for sample L69 are low. Inconsistent within the determinations of both samples.

D9N7C9 (X) - Data for both samples are low. Possible Systematic Error.

DH7RFG (X) - Data for both samples are low. Possible Systematic Error. Inconsistent within the determinations of both samples.

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

MYL9FG (X) - Inconsistent in testing between samples. Inconsistent within the determinations of both samples.

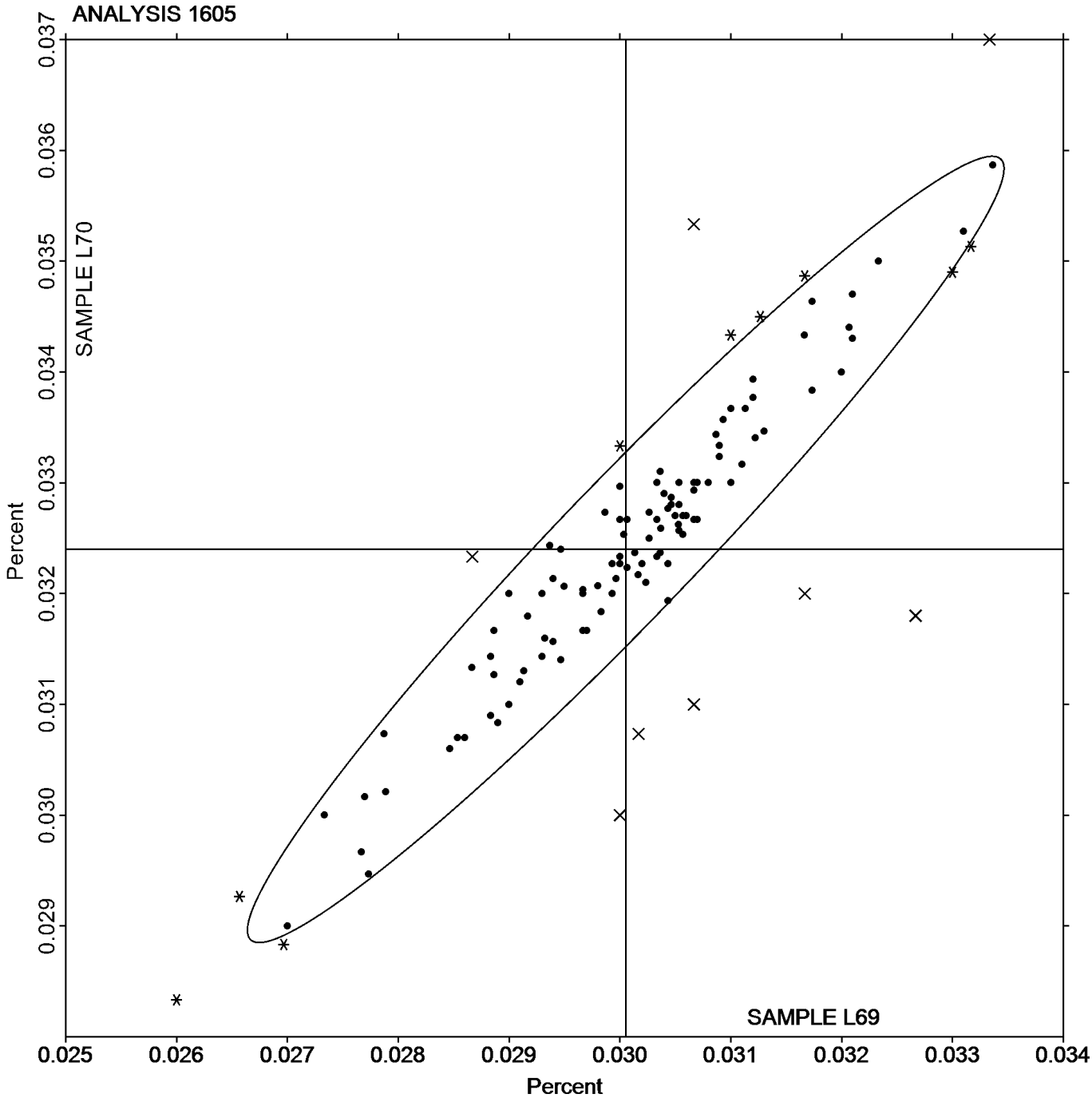
T8Z3ZR (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample L69.

V4BFHN (X) - Data for both samples are high. Possible Systematic Error.

ZHURVT (X) - Data for sample L69 are high. Inconsistent within the determinations of both samples.

SAMPLE L69
0.0301 Percent

SAMPLE L70
0.0324 Percent



		Sample L69			Sample L70			
WebCode	Data Flag	Lab Mean	Diff. from Grand Mean	CPV	Lab Mean	Diff. from Grand Mean	CPV	Method
2AWLDB	X	0.0893	-0.0114	-3.72	0.0780	-0.0097	-3.45	OE
2GKXZT		0.0981	-0.0026	-0.86	0.0849	-0.0028	-0.99	OE
2HRC8Y	X	0.1003	-0.0004	-0.12	0.0903	0.0026	0.94	GD
2J6V3P		0.1013	0.0006	0.21	0.0897	0.0020	0.70	OE
2KE2HY		0.1000	-0.0007	-0.22	0.0883	0.0006	0.23	OE
2KJ9VT		0.0983	-0.0024	-0.77	0.0863	-0.0014	-0.48	XX
2M68YP		0.0990	-0.0017	-0.56	0.0852	-0.0025	-0.87	OE
3JHXDV		0.1012	0.0005	0.17	0.0893	0.0016	0.56	OE
3KDPZ2		0.0987	-0.0020	-0.66	0.0870	-0.0007	-0.24	WD
3RC47W		0.1060	0.0053	1.74	0.0927	0.0050	1.77	OE
4434EQ	X	0.0913	-0.0094	-3.06	0.0830	-0.0047	-1.66	OE
46C9RE		0.1000	-0.0007	-0.22	0.0870	-0.0007	-0.24	OE
4CDPZY		0.1000	-0.0007	-0.24	0.0875	-0.0002	-0.07	XX
4XEJBA		0.1023	0.0016	0.54	0.0893	0.0016	0.59	OE
4YBU7D		0.0974	-0.0033	-1.09	0.0847	-0.0030	-1.05	OE
629VJF		0.1050	0.0043	1.41	0.0927	0.0050	1.77	OE
6MPCPQ		0.1053	0.0046	1.52	0.0937	0.0060	2.12	XX
73XQG8		0.0958	-0.0049	-1.61	0.0812	-0.0065	-2.31	IC
7LFM28		0.1003	-0.0004	-0.14	0.0869	-0.0008	-0.29	AE
7Q4AR7		0.1003	-0.0004	-0.12	0.0870	-0.0007	-0.24	OE
7WUJ36		0.1011	0.0004	0.13	0.0877	0.0000	-0.01	OE
86HURQ		0.1011	0.0004	0.15	0.0884	0.0007	0.25	IC
8G3ZAN		0.1000	-0.0007	-0.22	0.0860	-0.0017	-0.60	OE
962X2C		0.1007	0.0000	-0.01	0.0882	0.0005	0.17	OE
99VYYK		0.1050	0.0043	1.41	0.0912	0.0035	1.26	IC
9DV7L3		0.1083	0.0076	2.48	0.0949	0.0072	2.55	XX
9GUGFH		0.1021	0.0014	0.46	0.0893	0.0016	0.56	OE
9JKHL6		0.1050	0.0043	1.41	0.0910	0.0033	1.18	OE
9L4TGN		0.1010	0.0003	0.10	0.0860	-0.0017	-0.60	OE
9NU2FR	X	0.1177	0.0170	5.55	0.1057	0.0180	6.38	OE
9RB4R4		0.1002	-0.0005	-0.15	0.0870	-0.0007	-0.23	OE
9UL26L		0.0997	-0.0010	-0.33	0.0870	-0.0007	-0.24	AE
A2XP8L		0.1020	0.0013	0.43	0.0880	0.0003	0.11	AE
AMFWLZ	X	0.0900	-0.0107	-3.49	0.0800	-0.0077	-2.73	AA
C3YA9Q		0.0987	-0.0020	-0.66	0.0877	0.0000	-0.01	IC
C3YELE	X	0.0910	-0.0097	-3.17	0.0843	-0.0034	-1.19	OE
CBD7YJ		0.1023	0.0016	0.54	0.0887	0.0010	0.35	IC
CEA2FX		0.1001	-0.0006	-0.18	0.0872	-0.0005	-0.18	OE
CEYZUY		0.1043	0.0036	1.19	0.0920	0.0043	1.53	XX
CGY9X9		0.1023	0.0016	0.52	0.0888	0.0011	0.41	OE
CHXDE3		0.1000	-0.0007	-0.22	0.0863	-0.0014	-0.48	OE
CTVAJP		0.1007	0.0000	-0.01	0.0883	0.0006	0.23	OE
CU8QW4		0.1037	0.0030	0.97	0.0893	0.0016	0.59	GD
D7E2XY	X	0.1173	0.0166	5.44	0.1230	0.0353	12.54	OE
D7YZUW		0.0987	-0.0020	-0.66	0.0873	-0.0004	-0.12	OE
D9N7C9		0.0990	-0.0017	-0.55	0.0871	-0.0006	-0.22	OE
DH7RFG		0.0980	-0.0027	-0.88	0.0857	-0.0020	-0.72	IC

		Sample L69			Sample L70			
WebCode	Data Flag	Lab Mean	Diff. from Grand Mean	CPV	Lab Mean	Diff. from Grand Mean	CPV	Method
DJJEVB	*	0.0967	-0.0040	-1.31	0.0878	0.0001	0.04	XX
DKGRGH		0.0947	-0.0060	-1.97	0.0840	-0.0037	-1.31	OE
DLALF8		0.1027	0.0020	0.65	0.0893	0.0016	0.59	OE
DNF4E3		0.1001	-0.0006	-0.18	0.0877	0.0000	0.01	OE
DT9842	X	0.0907	-0.0100	-3.27	0.0710	-0.0167	-5.92	OE
DWVPLL		0.1032	0.0025	0.83	0.0897	0.0020	0.72	OE
EK984Y		0.1014	0.0007	0.24	0.0882	0.0005	0.17	OE
EXW8Y8	*	0.1003	-0.0004	-0.12	0.0835	-0.0042	-1.47	OE
EYTPYN		0.1011	0.0004	0.12	0.0884	0.0007	0.25	OE
F6GPUU		0.0970	-0.0037	-1.20	0.0848	-0.0029	-1.01	OE
F7QPWG		0.0993	-0.0014	-0.44	0.0863	-0.0014	-0.48	GD
F8HXWJ		0.1007	0.0000	0.00	0.0881	0.0004	0.14	OE
FA84EV		0.1007	0.0000	-0.01	0.0867	-0.0010	-0.36	IC
FCCRW7		0.1012	0.0005	0.18	0.0881	0.0004	0.14	OE
FEZ4VC		0.1053	0.0046	1.52	0.0917	0.0040	1.41	OE
FFVMWD		0.1007	0.0000	-0.01	0.0870	-0.0007	-0.24	OE
FPMXBE		0.1052	0.0045	1.46	0.0922	0.0045	1.62	OE
FTHWGX		0.1081	0.0074	2.43	0.0948	0.0072	2.54	OE
G4JUQJ		0.1013	0.0006	0.21	0.0867	-0.0010	-0.36	AA
GY7VD4		0.1010	0.0003	0.10	0.0880	0.0003	0.11	OE
HBFPNG		0.1007	0.0000	-0.01	0.0880	0.0003	0.11	OE
HHEK2L		0.0983	-0.0024	-0.78	0.0849	-0.0028	-0.98	IC
HJ4QGC		0.0977	-0.0030	-0.98	0.0855	-0.0022	-0.78	OE
HRF2TC		0.1057	0.0050	1.63	0.0930	0.0053	1.90	OE
J3FQAD		0.0990	-0.0017	-0.55	0.0863	-0.0014	-0.48	OE
J4BEN3	X	0.1087	0.0080	2.61	0.0977	0.0100	3.54	OE
J94HFK		0.0965	-0.0042	-1.36	0.0848	-0.0029	-1.01	OE
JVFECV		0.1083	0.0076	2.50	0.0954	0.0077	2.75	OE
K3TPYU		0.0992	-0.0015	-0.48	0.0867	-0.0010	-0.35	OE
K4P697		0.1014	0.0007	0.22	0.0872	-0.0005	-0.18	OE
KJMALA		0.1033	0.0026	0.86	0.0896	0.0019	0.68	OE
KNT624		0.1016	0.0009	0.29	0.0867	-0.0010	-0.34	OE
KU4YHU		0.0967	-0.0040	-1.31	0.0850	-0.0027	-0.95	XX
LCKF89		0.1090	0.0083	2.72	0.0952	0.0075	2.66	XX
LHLYY7		0.1030	0.0023	0.76	0.0902	0.0025	0.88	OE
LYWBYC		0.0992	-0.0015	-0.50	0.0867	-0.0010	-0.34	OE
MTXLKC		0.0993	-0.0014	-0.46	0.0882	0.0005	0.17	WD
MYL9FG		0.0987	-0.0020	-0.66	0.0843	-0.0034	-1.19	OE
NDG3C9		0.0990	-0.0017	-0.55	0.0863	-0.0014	-0.48	OE
NEBXTP		0.1018	0.0011	0.36	0.0887	0.0010	0.36	XX
NGYARV		0.1079	0.0072	2.35	0.0936	0.0059	2.11	DR
NNKXVD		0.1023	0.0016	0.54	0.0892	0.0015	0.53	OE
NPC426		0.0993	-0.0014	-0.44	0.0890	0.0013	0.47	OE
NRJAQD		0.0940	-0.0067	-2.19	0.0817	-0.0060	-2.14	OE
P2PLEU		0.1002	-0.0005	-0.16	0.0871	-0.0006	-0.21	OE
P4QQRE		0.0951	-0.0056	-1.84	0.0824	-0.0053	-1.86	IC
P7ZW8N	*	0.0993	-0.0014	-0.46	0.0805	-0.0072	-2.55	OE

		Sample L69			Sample L70			
WebCode	Data Flag	Lab Mean	Diff. from Grand Mean	CPV	Lab Mean	Diff. from Grand Mean	CPV	Method
PBUNLD		0.1027	0.0020	0.65	0.0898	0.0021	0.74	OE
PDLKB8		0.0963	-0.0044	-1.42	0.0840	-0.0037	-1.31	OE
PQ4G6A		0.0993	-0.0014	-0.44	0.0870	-0.0007	-0.24	OE
PQJZP8		0.0972	-0.0035	-1.14	0.0859	-0.0018	-0.64	IC
PRX8BN		0.0997	-0.0010	-0.33	0.0866	-0.0011	-0.40	OE
Q9GFPX		0.1010	0.0003	0.10	0.0870	-0.0007	-0.24	OE
QRWPTJ		0.1007	0.0000	-0.01	0.0880	0.0003	0.11	GD
QT3ET8	*	0.0959	-0.0048	-1.56	0.0807	-0.0070	-2.48	GD
R8F3HV		0.1013	0.0006	0.21	0.0887	0.0010	0.35	IC
RA9VEZ		0.1000	-0.0007	-0.22	0.0873	-0.0004	-0.12	OE
RHNHN4		0.0984	-0.0023	-0.76	0.0858	-0.0019	-0.66	OE
RZJ8HC		0.1030	0.0023	0.77	0.0896	0.0019	0.67	OE
T68AZ3		0.1040	0.0033	1.08	0.0900	0.0023	0.82	IC
T7QXM3		0.1011	0.0004	0.12	0.0872	-0.0005	-0.16	OE
T8HUAC		0.0972	-0.0035	-1.15	0.0854	-0.0023	-0.82	IC
T8Z3ZR	X	0.1023	0.0016	0.54	0.0863	-0.0014	-0.48	IC
TZJHYZ	X	0.1153	0.0146	4.79	0.0967	0.0090	3.19	OE
U3LRHG		0.0930	-0.0077	-2.51	0.0800	-0.0077	-2.73	OE
UJ96YU		0.1040	0.0033	1.08	0.0897	0.0020	0.70	XX
UN4W8R		0.1007	0.0000	-0.01	0.0867	-0.0010	-0.36	IC
UPDZ23		0.0980	-0.0027	-0.89	0.0843	-0.0034	-1.21	OE
V4BFHN	*	0.1047	0.0040	1.30	0.0890	0.0013	0.47	XX
VDCZHV		0.0994	-0.0013	-0.41	0.0851	-0.0026	-0.93	IC
VM2NDX	*	0.1063	0.0056	1.85	0.0860	-0.0017	-0.60	OE
VU3W4Y		0.1010	0.0003	0.10	0.0877	0.0000	-0.01	OE
VWVTQ8		0.0947	-0.0060	-1.97	0.0820	-0.0057	-2.02	IC
VYXQ2Z		0.0958	-0.0049	-1.60	0.0837	-0.0040	-1.43	OE
W9XMCG		0.1007	0.0000	-0.01	0.0870	-0.0007	-0.24	IC
WB4822		0.0999	-0.0008	-0.25	0.0862	-0.0015	-0.53	XX
WPNM8M		0.1010	0.0003	0.10	0.0877	0.0000	-0.01	AE
WRDR4Z		0.1043	0.0036	1.19	0.0909	0.0032	1.14	OE
WVEXGK		0.0987	-0.0020	-0.66	0.0860	-0.0017	-0.59	OE
X366CV		0.1017	0.0010	0.33	0.0886	0.0010	0.34	OE
XD7BMW		0.1007	0.0000	-0.01	0.0883	0.0006	0.23	XX
XL29E7		0.1020	0.0013	0.43	0.0880	0.0003	0.11	OE
YDNUV2		0.1063	0.0056	1.85	0.0923	0.0046	1.65	OE
YHF7LQ		0.0970	-0.0037	-1.20	0.0850	-0.0027	-0.95	DR
YPJTYZ		0.1020	0.0013	0.43	0.0883	0.0006	0.23	OE
YQURVU	*	0.0923	-0.0084	-2.73	0.0843	-0.0034	-1.19	IC
YWGHHP		0.0983	-0.0024	-0.77	0.0867	-0.0010	-0.36	XX
YZFTDP		0.0993	-0.0014	-0.44	0.0855	-0.0022	-0.78	IC
ZC78RC		0.0960	-0.0047	-1.53	0.0827	-0.0050	-1.78	GD
ZD2N8V		0.1022	0.0015	0.50	0.0879	0.0002	0.09	OE
ZM9KVX		0.1003	-0.0004	-0.12	0.0870	-0.0007	-0.24	OE
ZRKBCL		0.0970	-0.0037	-1.20	0.0848	-0.0029	-1.04	OE
ZYLHZ3		0.1003	-0.0004	-0.12	0.0880	0.0003	0.11	OE

Summary Statistics

	Sample L69		Sample L70	
Grand Means	0.1007	Percent	0.0877	Percent
Stnd Dev Btwn Labs	0.0031	Percent	0.0028	Percent

Samples L69, L70 : AISI 1045, AISI 1045

Statistics based on 123 of 140 reporting participants

Key to Method Codes Reported by Participants

AA	Spectrometry - Atomic Absorption (AAS)	AE	Spectrometry - Atomic Emission (AES)
DR	Spectrometry - Direct Reading OE (DROES)	GD	Spectrometry - Glow Discharge (GDS)
IC	Spectrometry - Inductively Coupled Plasma (ICP)	OE	Spectrometry - Optical Emission (OES)
WD	X-Ray Fluorescence - Wavelength Dispersive (WDX)	XX	Please Indicate Method Used for Current Element

Comments on Assigned Data Flags for Test #1606

2AWLDB (X) - Data for both samples are low. Possible Systematic Error.

2HRC8Y (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample L69.

4434EQ (X) - Data for sample L69 are low.

9NU2FR (X) - Data for both samples are high. Possible Systematic Error.

AMFWLZ (X) - Data for sample L69 are low.

C3YELE (X) - Data for sample L69 are low. Inconsistent within the determinations of both samples.

D7E2XY (X) - Data for both samples are high. Possible Systematic Error.

DT9842 (X) - Data for both samples are low. Possible Systematic Error.

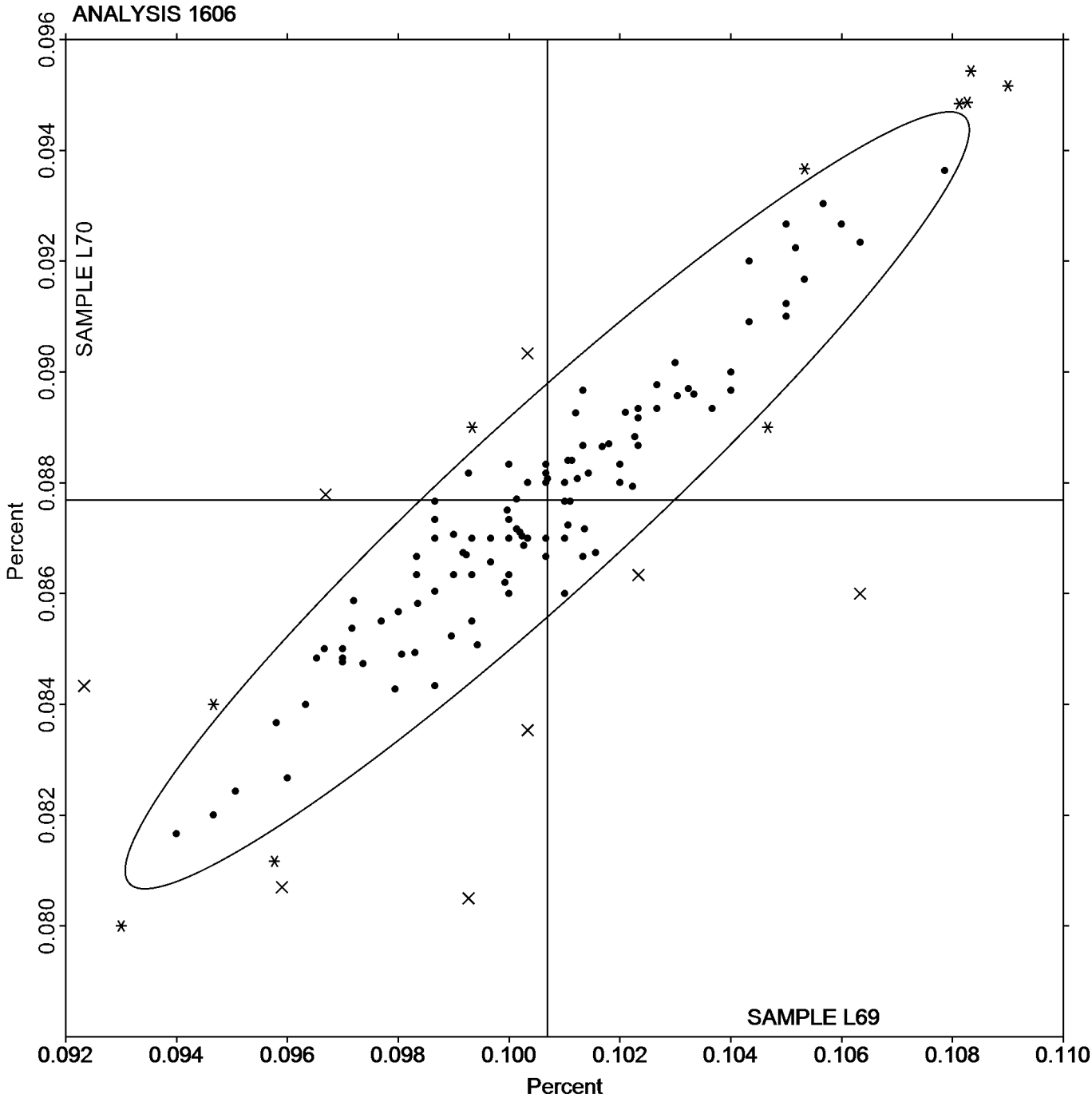
J4BEN3 (X) - Data for sample L70 are high. Inconsistent within the determinations of both samples.

T8Z3ZR (X) - Inconsistent in testing between samples. Inconsistent within the determinations of both samples.

TZJHYZ (X) - Data for both samples are high. Possible Systematic Error. Inconsistent within the determinations of sample L70.

SAMPLE L69
0.1007 Percent

SAMPLE L70
0.0877 Percent



		Sample L69			Sample L70			
WebCode	Data Flag	Lab Mean	Diff. from Grand Mean	CPV	Lab Mean	Diff. from Grand Mean	CPV	Method
2AWLDB	X	0.0658	-0.0056	-2.63	0.1153	-0.0122	-3.92	OE
2GKXZT		0.0710	-0.0003	-0.16	0.1280	0.0005	0.16	OE
2HRC8Y		0.0740	0.0027	1.26	0.1343	0.0068	2.19	GD
2J6V3P		0.0750	0.0037	1.73	0.1333	0.0058	1.87	OE
2KE2HY	X	0.0703	-0.0010	-0.48	0.1400	0.0125	4.00	OE
2KJ9VT		0.0697	-0.0017	-0.79	0.1237	-0.0038	-1.23	OE
2M68YP		0.0713	0.0000	-0.02	0.1285	0.0010	0.33	XX
3JHXDV		0.0720	0.0007	0.32	0.1283	0.0008	0.25	OE
3KDPZ2		0.0760	0.0047	2.20	0.1283	0.0008	0.27	OE
3RC47W		0.0693	-0.0020	-0.95	0.1237	-0.0038	-1.23	OE
4434EQ		0.0713	0.0000	-0.01	0.1273	-0.0002	-0.05	OE
46C9RE		0.0713	0.0000	-0.01	0.1260	-0.0015	-0.48	OE
4CDPZY		0.0710	-0.0003	-0.16	0.1268	-0.0007	-0.21	XX
4XEJBA		0.0730	0.0017	0.78	0.1243	-0.0032	-1.02	OE
4YBU7D		0.0756	0.0042	2.00	0.1333	0.0058	1.87	OE
629VJF		0.0710	-0.0003	-0.16	0.1263	-0.0012	-0.37	OE
6MPCPQ	X	0.0387	-0.0327	-15.46	0.1020	-0.0255	-8.17	XX
73XQG8		0.0681	-0.0032	-1.54	0.1249	-0.0026	-0.83	IC
7LFM28		0.0736	0.0023	1.08	0.1313	0.0038	1.21	AE
7Q4AR7		0.0720	0.0007	0.31	0.1267	-0.0008	-0.27	OE
7WUJ36		0.0713	0.0000	-0.02	0.1264	-0.0011	-0.36	OE
86HURQ		0.0708	-0.0006	-0.27	0.1271	-0.0004	-0.12	IC
8G3ZAN		0.0720	0.0007	0.31	0.1317	0.0042	1.33	OE
962X2C		0.0728	0.0015	0.70	0.1297	0.0022	0.69	OE
99VYYK		0.0730	0.0017	0.80	0.1326	0.0051	1.63	IC
9DV7L3		0.0710	-0.0003	-0.15	0.1260	-0.0015	-0.49	XX
9GUGFH		0.0747	0.0033	1.57	0.1293	0.0018	0.57	OE
9JKHL6	X	0.0780	0.0067	3.15	0.1370	0.0095	3.04	OE
9L4TGN	X	0.0603	-0.0110	-5.21	0.1107	-0.0168	-5.40	OE
9NU2FR		0.0703	-0.0010	-0.48	0.1263	-0.0012	-0.37	OE
9RB4R4		0.0710	-0.0003	-0.16	0.1270	-0.0005	-0.16	OE
9UL26L		0.0713	0.0000	-0.01	0.1283	0.0008	0.27	AE
A2XP8L		0.0711	-0.0002	-0.12	0.1270	-0.0005	-0.16	AE
AMFWLZ	X	0.0800	0.0087	4.09	0.1200	-0.0075	-2.40	AA
C3YA9Q		0.0740	0.0027	1.26	0.1273	-0.0002	-0.05	IC
C3YELE	X	0.0629	-0.0085	-4.01	0.1127	-0.0148	-4.75	OE
CBD7YJ		0.0703	-0.0010	-0.48	0.1280	0.0005	0.16	IC
CEA2FX		0.0723	0.0010	0.47	0.1279	0.0004	0.13	OE
CEYZUY		0.0677	-0.0037	-1.74	0.1217	-0.0058	-1.87	XX
CGY9X9	*	0.0653	-0.0061	-2.88	0.1203	-0.0072	-2.31	OE
CHXDE3		0.0727	0.0013	0.63	0.1307	0.0032	1.01	OE
CTVAJP		0.0690	-0.0023	-1.11	0.1273	-0.0002	-0.05	OE
CU8QW4		0.0730	0.0017	0.78	0.1297	0.0022	0.69	GD
D7E2XY	X	0.0993	0.0280	13.24	0.1550	0.0275	8.81	OE
D7YZUW		0.0720	0.0007	0.31	0.1243	-0.0032	-1.02	OE
D9N7C9	X	0.0822	0.0109	5.15	0.1343	0.0068	2.18	OE
DH7RFG		0.0770	0.0057	2.68	0.1347	0.0072	2.30	IC

		Sample L69			Sample L70			
WebCode	Data Flag	Lab Mean	Diff. from Grand Mean	CPV	Lab Mean	Diff. from Grand Mean	CPV	Method
DJJEVB	*	0.0715	0.0001	0.07	0.1205	-0.0070	-2.24	XX
DKGRGH	*	0.0770	0.0057	2.68	0.1253	-0.0022	-0.70	OE
DLALF8		0.0720	0.0007	0.31	0.1260	-0.0015	-0.48	OE
DNF4E3	X	0.0815	0.0102	4.82	0.1284	0.0009	0.30	OE
DT9842	X	0.0497	-0.0217	-10.26	0.1167	-0.0108	-3.47	OE
DWVPLL		0.0702	-0.0011	-0.54	0.1265	-0.0010	-0.32	OE
EK984Y		0.0720	0.0007	0.31	0.1287	0.0012	0.37	OE
EXW8Y8		0.0730	0.0017	0.78	0.1267	-0.0008	-0.27	OE
EYTPYN		0.0714	0.0000	0.01	0.1268	-0.0007	-0.23	OE
F6GPUU		0.0704	-0.0010	-0.46	0.1254	-0.0021	-0.67	OE
F7QPWG	X	0.0757	0.0043	2.04	0.1400	0.0125	4.00	GD
F8HXWJ		0.0717	0.0004	0.17	0.1274	-0.0001	-0.02	OE
FA84EV		0.0700	-0.0013	-0.64	0.1300	0.0025	0.80	OE
FCCRW7		0.0735	0.0021	1.00	0.1304	0.0029	0.94	OE
FEZ4VC		0.0737	0.0023	1.10	0.1357	0.0082	2.62	OE
FFVMWD		0.0710	-0.0003	-0.16	0.1280	0.0005	0.16	OE
FPMXBE		0.0702	-0.0012	-0.56	0.1246	-0.0029	-0.94	OE
FTHWGX		0.0682	-0.0032	-1.50	0.1216	-0.0059	-1.88	OE
G4JUQJ		0.0710	-0.0003	-0.16	0.1263	-0.0012	-0.37	AE
GY7VD4	X	0.0790	0.0077	3.62	0.1270	-0.0005	-0.16	OE
HBFPNG		0.0700	-0.0013	-0.64	0.1300	0.0025	0.80	OE
HHEK2L		0.0709	-0.0004	-0.21	0.1290	0.0015	0.48	IC
HJ4QGC		0.0696	-0.0017	-0.83	0.1211	-0.0064	-2.05	OE
HRF2TC		0.0696	-0.0018	-0.84	0.1260	-0.0015	-0.48	OE
J3FQAD		0.0720	0.0007	0.31	0.1290	0.0015	0.48	OE
J4BEN3		0.0707	-0.0007	-0.32	0.1270	-0.0005	-0.16	OE
J94HFK		0.0710	-0.0003	-0.15	0.1330	0.0055	1.76	OE
JVFECV		0.0711	-0.0002	-0.12	0.1265	-0.0010	-0.31	OE
K3TPYU		0.0714	0.0001	0.04	0.1264	-0.0011	-0.36	OE
K4P697		0.0719	0.0006	0.28	0.1270	-0.0005	-0.16	OE
KJMALA		0.0735	0.0022	1.04	0.1287	0.0012	0.37	OE
KNT624		0.0746	0.0033	1.54	0.1270	-0.0005	-0.16	OE
KU4YHU		0.0707	-0.0007	-0.32	0.1247	-0.0028	-0.91	XX
LCKF89		0.0703	-0.0010	-0.48	0.1257	-0.0018	-0.59	XX
LHLYY7		0.0730	0.0017	0.78	0.1287	0.0012	0.37	OE
LYWBYC		0.0696	-0.0018	-0.84	0.1253	-0.0022	-0.70	OE
MTXLKC		0.0769	0.0055	2.61	0.1316	0.0041	1.31	OE
MYL9FG		0.0683	-0.0030	-1.42	0.1273	-0.0002	-0.05	OE
NDG3C9		0.0710	-0.0003	-0.16	0.1287	0.0012	0.37	OE
NEBXTP		0.0690	-0.0024	-1.13	0.1301	0.0026	0.83	XX
NGYARV		0.0695	-0.0018	-0.86	0.1237	-0.0038	-1.23	DR
NNKXVD		0.0715	0.0002	0.09	0.1282	0.0007	0.22	OE
NPC426		0.0710	-0.0003	-0.16	0.1280	0.0005	0.16	OE
NRJAQD		0.0710	-0.0003	-0.16	0.1267	-0.0008	-0.27	OE
P2PLEU		0.0707	-0.0006	-0.29	0.1257	-0.0018	-0.59	OE
P4QQRE		0.0692	-0.0021	-1.00	0.1250	-0.0025	-0.80	IC
P7ZW8N		0.0706	-0.0007	-0.35	0.1282	0.0007	0.22	OE

		Sample L69			Sample L70			
WebCode	Data Flag	Lab Mean	Diff. from Grand Mean	CPV	Lab Mean	Diff. from Grand Mean	CPV	Method
PBUNLD	X	0.0714	0.0001	0.04	0.1423	0.0148	4.75	OE
PDLKB8		0.0700	-0.0013	-0.64	0.1243	-0.0032	-1.02	OE
PQ4G6A		0.0727	0.0013	0.63	0.1297	0.0022	0.70	OE
PQJZP8		0.0745	0.0032	1.49	0.1290	0.0015	0.48	IC
PRX8BN		0.0681	-0.0032	-1.54	0.1287	0.0012	0.38	OE
Q9GFPX		0.0700	-0.0013	-0.64	0.1237	-0.0038	-1.23	OE
QRWPTJ	X	0.0640	-0.0073	-3.47	0.1190	-0.0085	-2.72	GD
QT3ET8		0.0727	0.0014	0.64	0.1310	0.0035	1.12	GD
R8F3HV		0.0743	0.0030	1.41	0.1353	0.0078	2.51	IC
RA9VEZ		0.0683	-0.0030	-1.42	0.1227	-0.0048	-1.55	OE
RHNHN4		0.0687	-0.0026	-1.25	0.1256	-0.0019	-0.62	OE
RZJ8HC		0.0718	0.0004	0.20	0.1284	0.0009	0.28	OE
T68AZ3		0.0700	-0.0013	-0.64	0.1250	-0.0025	-0.80	IC
T7QXM3	X	0.0787	0.0074	3.48	0.1365	0.0090	2.88	OE
T8HUAC		0.0733	0.0020	0.92	0.1305	0.0030	0.95	IC
T8Z3ZR	X	0.0643	-0.0070	-3.32	0.1433	0.0158	5.07	IC
TZJHYZ		0.0670	-0.0043	-2.06	0.1223	-0.0052	-1.66	OE
U3LRHG		0.0740	0.0027	1.26	0.1340	0.0065	2.08	OE
UJ96YU	X	0.0653	-0.0060	-2.84	0.1163	-0.0112	-3.58	XX
UN4W8R		0.0723	0.0010	0.47	0.1283	0.0008	0.27	IC
UPDZ23	X	0.0825	0.0111	5.26	0.1225	-0.0050	-1.61	OE
V4BFHN		0.0677	-0.0037	-1.74	0.1200	-0.0075	-2.40	XX
VDCZHV		0.0713	0.0000	-0.02	0.1270	-0.0005	-0.16	IC
VM2NDX	X	0.0803	0.0090	4.25	0.1353	0.0078	2.51	OE
VU3W4Y		0.0707	-0.0007	-0.32	0.1250	-0.0025	-0.80	OE
VWVTQ8		0.0700	-0.0013	-0.64	0.1257	-0.0018	-0.59	IC
VYXQ2Z		0.0732	0.0018	0.86	0.1271	-0.0004	-0.12	OE
W9XMCG		0.0710	-0.0003	-0.16	0.1290	0.0015	0.48	IC
WB4822		0.0721	0.0008	0.36	0.1292	0.0017	0.55	IC
WPNM8M		0.0720	0.0007	0.31	0.1270	-0.0005	-0.16	AE
WRDR4Z		0.0727	0.0014	0.64	0.1290	0.0015	0.48	OE
WVEXGK		0.0709	-0.0005	-0.23	0.1249	-0.0026	-0.84	OE
X366CV		0.0707	-0.0006	-0.29	0.1255	-0.0020	-0.63	OE
XD7BMW		0.0677	-0.0037	-1.74	0.1277	0.0002	0.05	XX
XL29E7		0.0677	-0.0037	-1.74	0.1230	-0.0045	-1.44	OE
YDNUV2		0.0707	-0.0007	-0.32	0.1287	0.0012	0.37	OE
YPJTYZ	X	0.0693	-0.0020	-0.95	0.1120	-0.0155	-4.97	OE
YQURVU		0.0720	0.0007	0.31	0.1280	0.0005	0.16	IC
YWGHHP		0.0693	-0.0020	-0.95	0.1247	-0.0028	-0.91	XX
YZFTDP		0.0703	-0.0010	-0.48	0.1283	0.0008	0.27	IC
ZC78RC		0.0740	0.0027	1.26	0.1310	0.0035	1.12	GD
ZD2N8V		0.0681	-0.0032	-1.51	0.1211	-0.0065	-2.07	OE
ZHURVT	X	0.0627	-0.0087	-4.11	0.1277	0.0002	0.05	XR
ZM9KVX		0.0745	0.0032	1.49	0.1303	0.0028	0.91	OE
ZRKBCL		0.0756	0.0043	2.03	0.1317	0.0042	1.33	OE
ZYLHZ3	X	0.0677	-0.0037	-1.74	0.1160	-0.0115	-3.69	OE

Summary Statistics

	Sample L69		Sample L70	
Grand Means	0.0713	Percent	0.1275	Percent
Stnd Dev Btwn Labs	0.0021	Percent	0.0031	Percent

Samples L69, L70 : AISI 1045, AISI 1045

Statistics based on 115 of 140 reporting participants

Key to Method Codes Reported by Participants

AA	Spectrometry - Atomic Absorption (AAS)	AE	Spectrometry - Atomic Emission (AES)
DR	Spectrometry - Direct Reading OE (DROES)	GD	Spectrometry - Glow Discharge (GDS)
IC	Spectrometry - Inductively Coupled Plasma (ICP)	OE	Spectrometry - Optical Emission (OES)
XR	X-Ray Fluorescence - ED or WD not specified	XX	Please Indicate Method Used for Current Element

Comments on Assigned Data Flags for Test #1607

2AWLDB (X) - Data for sample L70 are low.

2KE2HY (X) - Data for sample L70 are high.

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

9JKHL6 (X) - Data for both samples are high.

9L4TGN (X) - Data for both samples are low.

AMFWLZ (X) - Data for sample L69 are high. Inconsistent within the determinations of both samples.

C3YELE (X) - Data for both samples are low.

D7E2XY (X) - Data for both samples are high. Inconsistent within the determinations of sample L69.

D9N7C9 (X) - Data for sample L69 are high.

DNF4E3 (X) - Data for sample L69 are high.

DT9842 (X) - Data for both samples are low. Inconsistent within the determinations of sample L70.

F7QPWG (X) - Data for sample L70 are high.

GY7VD4 (X) - Data for sample L69 are high.

PBUNLD (X) - Data for sample L70 are high. Inconsistent within the determinations of both samples.

QRWPTJ (X) - Data for sample L69 are low.

T7QXM3 (X) - Data for both samples are high.

T8Z3ZR (X) - Data for sample L69 are low and data for sample L70 are high. Inconsistent within the determinations of both samples.

UJ96YU (X) - Data for both samples are low.

UPDZ23 (X) - Data for sample L69 are high.

VM2NDX (X) - Data for sample L69 are high.

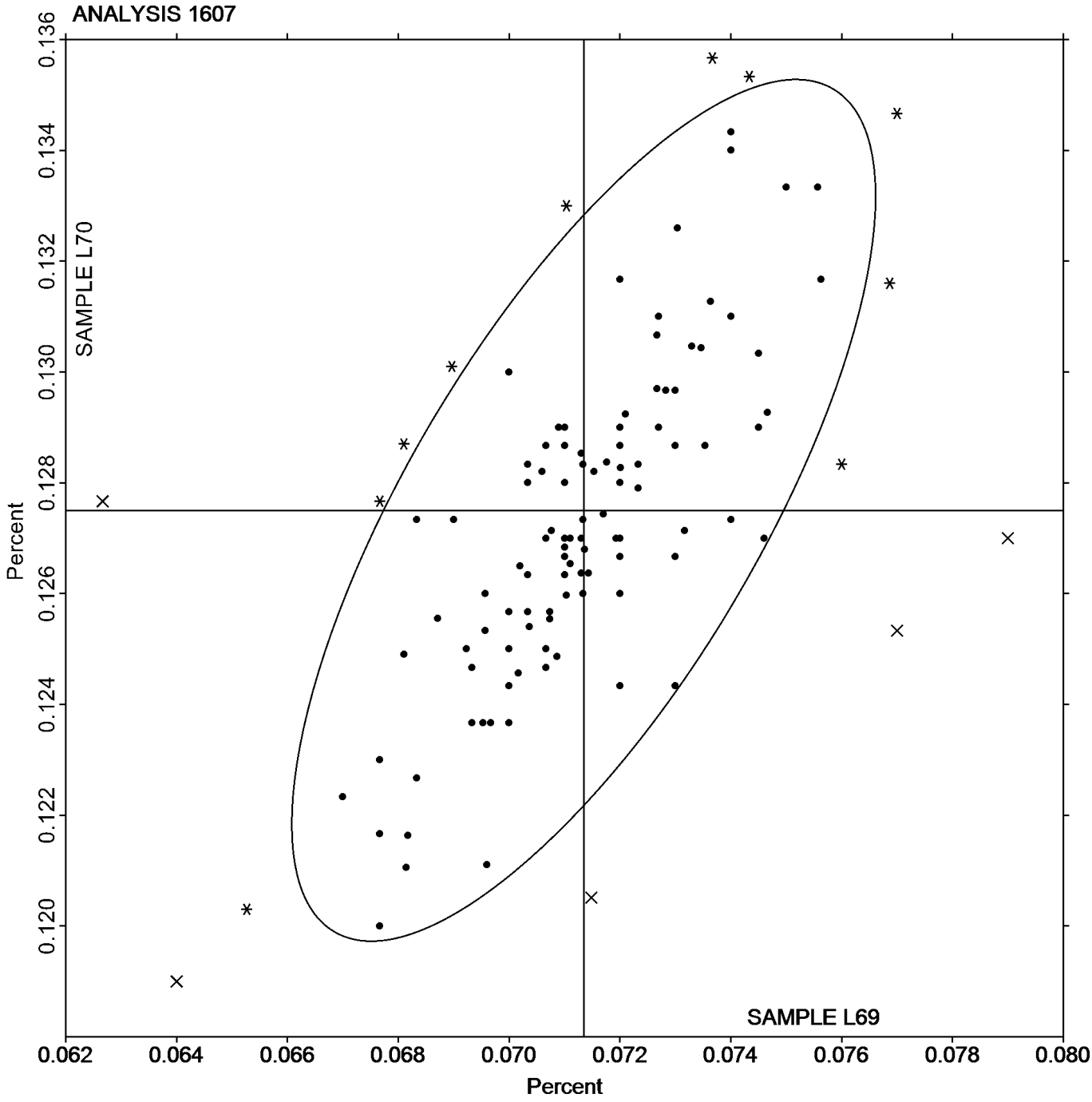
YPJTYZ (X) - Data for sample L70 are low.

ZHURVT (X) - Data for sample L69 are low. Inconsistent within the determinations of sample L69.

ZYLHZ3 (X) - Data for sample L70 are low.

SAMPLE L69
0.0713 Percent

SAMPLE L70
0.1275 Percent



		Sample L69			Sample L70			
WebCode	Data Flag	Lab Mean	Diff. from Grand Mean	CPV	Lab Mean	Diff. from Grand Mean	CPV	Method
2AWLDB		0.2314	-0.0088	-1.87	0.1791	-0.0060	-1.65	OE
2GKXZT		0.2360	-0.0042	-0.90	0.1823	-0.0028	-0.77	OE
2HRC8Y		0.2400	-0.0002	-0.05	0.1870	0.0019	0.51	GD
2J6V3P	X	0.2617	0.0214	4.56	0.1817	-0.0035	-0.96	OE
2KE2HY		0.2400	-0.0002	-0.05	0.1900	0.0049	1.33	OE
2KJ9VT		0.2393	-0.0009	-0.19	0.1853	0.0002	0.05	OE
2M68YP		0.2394	-0.0008	-0.17	0.1821	-0.0030	-0.83	XX
3JHXDV		0.2425	0.0023	0.48	0.1850	-0.0001	-0.04	OE
3KDPZ2		0.2390	-0.0012	-0.26	0.1847	-0.0005	-0.13	WD
3RC47W	X	0.2373	-0.0029	-0.62	0.1953	0.0102	2.80	OE
4434EQ		0.2367	-0.0036	-0.76	0.1800	-0.0051	-1.41	OE
46C9RE		0.2450	0.0048	1.02	0.1853	0.0002	0.05	OE
4CDPZY		0.2420	0.0018	0.38	0.1811	-0.0040	-1.10	XX
4XEJBA		0.2407	0.0004	0.09	0.1880	0.0029	0.78	OE
4YBU7D		0.2443	0.0041	0.87	0.1927	0.0075	2.06	OE
629VJF		0.2410	0.0008	0.16	0.1877	0.0025	0.69	OE
6MPCPQ	*	0.2360	-0.0042	-0.90	0.1907	0.0055	1.52	XX
73XQG8		0.2370	-0.0032	-0.68	0.1803	-0.0049	-1.34	IC
7LFM28	X	0.2245	-0.0158	-3.35	0.1800	-0.0051	-1.41	AE
7Q4AR7		0.2430	0.0028	0.59	0.1877	0.0025	0.69	OE
7WUJ36		0.2353	-0.0050	-1.06	0.1842	-0.0009	-0.25	OE
86HURQ		0.2456	0.0054	1.15	0.1901	0.0049	1.35	IC
8G3ZAN		0.2380	-0.0022	-0.47	0.1830	-0.0021	-0.59	OE
962X2C	X	0.2410	0.0008	0.16	0.1963	0.0112	3.07	OE
99VYYK		0.2461	0.0058	1.24	0.1926	0.0074	2.04	IC
9DV7L3		0.2387	-0.0016	-0.33	0.1851	0.0000	0.00	XX
9GUGFH		0.2492	0.0090	1.92	0.1908	0.0057	1.55	OE
9JKHL6		0.2470	0.0068	1.44	0.1900	0.0049	1.33	OE
9L4TGN		0.2440	0.0038	0.80	0.1880	0.0029	0.78	OE
9NU2FR	*	0.2270	-0.0132	-2.82	0.1780	-0.0071	-1.96	OE
9RB4R4		0.2417	0.0014	0.31	0.1857	0.0005	0.14	OE
9UL26L		0.2413	0.0011	0.24	0.1877	0.0025	0.69	AE
A2XP8L		0.2420	0.0018	0.38	0.1850	-0.0001	-0.04	AE
AMFWLZ	*	0.2400	-0.0002	-0.05	0.1800	-0.0051	-1.41	AA
C3YA9Q		0.2353	-0.0049	-1.04	0.1823	-0.0028	-0.77	IC
C3YELE		0.2387	-0.0016	-0.33	0.1847	-0.0005	-0.13	OE
CBD7YJ		0.2387	-0.0016	-0.33	0.1840	-0.0011	-0.31	IC
CEA2FX		0.2411	0.0009	0.19	0.1874	0.0022	0.61	XR
CEYZUY		0.2450	0.0048	1.02	0.1890	0.0039	1.06	XX
CGY9X9		0.2405	0.0003	0.06	0.1839	-0.0013	-0.35	OE
CHXDE3		0.2293	-0.0109	-2.32	0.1787	-0.0065	-1.78	OE
CTVAJP		0.2323	-0.0079	-1.68	0.1807	-0.0045	-1.23	OE
CU8QW4		0.2423	0.0021	0.45	0.1867	0.0015	0.42	GD
D7E2XY	X	0.2480	0.0078	1.65	0.2003	0.0152	4.17	OE
D7YZUW		0.2383	-0.0019	-0.40	0.1860	0.0009	0.23	OE
D9N7C9	X	0.2159	-0.0243	-5.18	0.1635	-0.0217	-5.95	OE
DH7RFG		0.2393	-0.0009	-0.19	0.1857	0.0005	0.14	IC

		Sample L69			Sample L70			
WebCode	Data Flag	Lab Mean	Diff. from Grand Mean	CPV	Lab Mean	Diff. from Grand Mean	CPV	Method
DJJEVB		0.2407	0.0004	0.10	0.1864	0.0013	0.36	XX
DKGRGH		0.2323	-0.0079	-1.68	0.1810	-0.0041	-1.14	OE
DLALF8		0.2437	0.0034	0.73	0.1877	0.0025	0.69	OE
DNF4E3		0.2391	-0.0012	-0.25	0.1826	-0.0025	-0.70	OE
DT9842	X	0.1837	-0.0566	-12.04	0.1267	-0.0585	-16.05	OE
DWVPLL	X	0.2164	-0.0238	-5.06	0.1695	-0.0156	-4.29	OE
EK984Y		0.2497	0.0094	2.01	0.1893	0.0042	1.15	OE
EXW8Y8		0.2377	-0.0026	-0.55	0.1837	-0.0015	-0.41	OE
EYTPYN		0.2392	-0.0010	-0.21	0.1869	0.0018	0.49	OE
F6GPUU		0.2410	0.0008	0.17	0.1856	0.0004	0.12	OE
F7QPWG		0.2500	0.0098	2.08	0.1900	0.0049	1.33	GD
F8HXWJ		0.2331	-0.0071	-1.51	0.1796	-0.0056	-1.53	OE
FA84EV		0.2403	0.0001	0.02	0.1840	-0.0011	-0.31	OE
FCCRW7		0.2447	0.0045	0.95	0.1841	-0.0011	-0.30	OE
FEZ4VC		0.2430	0.0028	0.59	0.1870	0.0019	0.51	OE
FFVMWD		0.2370	-0.0032	-0.69	0.1840	-0.0011	-0.31	OE
FPMXBE	X	0.2507	0.0105	2.23	0.1982	0.0130	3.57	OE
FTHWGX		0.2303	-0.0099	-2.11	0.1765	-0.0086	-2.37	OE
G4JUQJ		0.2393	-0.0009	-0.19	0.1820	-0.0031	-0.86	AA
GY7VD4		0.2343	-0.0059	-1.25	0.1807	-0.0045	-1.23	OE
HBFPNG		0.2400	-0.0002	-0.05	0.1800	-0.0051	-1.41	OE
HHEK2L		0.2477	0.0074	1.58	0.1917	0.0065	1.79	IC
HJ4QGC		0.2358	-0.0044	-0.94	0.1801	-0.0050	-1.39	OE
HRF2TC		0.2310	-0.0092	-1.96	0.1797	-0.0055	-1.50	OE
J3FQAD		0.2417	0.0014	0.31	0.1860	0.0009	0.23	OE
J4BEN3		0.2393	-0.0009	-0.19	0.1807	-0.0045	-1.23	OE
J94HFK		0.2417	0.0014	0.31	0.1880	0.0029	0.78	OE
JVFECV	X	0.2220	-0.0183	-3.89	0.1726	-0.0125	-3.44	OE
K3TPYU		0.2442	0.0040	0.85	0.1866	0.0014	0.39	OE
K4P697	*	0.2303	-0.0099	-2.11	0.1937	0.0085	2.34	OE
KJMALA		0.2417	0.0014	0.31	0.1880	0.0029	0.78	OE
KNT624		0.2420	0.0018	0.38	0.1830	-0.0021	-0.59	OE
KU4YHU		0.2333	-0.0069	-1.47	0.1810	-0.0041	-1.14	XX
LCKF89		0.2387	-0.0016	-0.33	0.1847	-0.0005	-0.13	XX
LHLYY7		0.2340	-0.0062	-1.33	0.1813	-0.0038	-1.05	OE
LYWBYC		0.2397	-0.0006	-0.12	0.1857	0.0005	0.14	OE
MTXLKC		0.2420	0.0018	0.38	0.1886	0.0035	0.95	XX
MYL9FG		0.2390	-0.0012	-0.26	0.1840	-0.0011	-0.31	OE
NDG3C9		0.2400	-0.0002	-0.05	0.1840	-0.0011	-0.31	OE
NEBXTP		0.2457	0.0055	1.16	0.1886	0.0035	0.95	XX
NGYARV		0.2348	-0.0055	-1.16	0.1807	-0.0044	-1.21	DR
NNKXVD		0.2458	0.0056	1.19	0.1903	0.0052	1.42	OE
NPC426		0.2337	-0.0066	-1.40	0.1833	-0.0018	-0.50	OE
NRJAQD		0.2457	0.0054	1.16	0.1880	0.0029	0.78	OE
P2PLEU		0.2416	0.0013	0.28	0.1863	0.0012	0.32	OE
P4QQRE		0.2403	0.0001	0.02	0.1853	0.0002	0.05	IC
P7ZW8N	*	0.2374	-0.0028	-0.60	0.1764	-0.0088	-2.41	OE

		Sample L69			Sample L70			
WebCode	Data Flag	Lab Mean	Diff. from Grand Mean	CPV	Lab Mean	Diff. from Grand Mean	CPV	Method
PBUNLD		0.2410	0.0008	0.16	0.1857	0.0005	0.14	OE
PDLKB8		0.2397	-0.0006	-0.12	0.1847	-0.0005	-0.13	OE
PQ4G6A		0.2386	-0.0016	-0.35	0.1845	-0.0006	-0.17	OE
PQJZP8		0.2402	0.0000	-0.01	0.1860	0.0009	0.24	IC
PRX8BN		0.2353	-0.0049	-1.05	0.1843	-0.0008	-0.22	OE
Q9GFPX	*	0.2540	0.0138	2.93	0.1960	0.0109	2.98	OE
QRWPTJ	X	0.2597	0.0194	4.14	0.1980	0.0129	3.53	GD
QT3ET8		0.2430	0.0028	0.59	0.1880	0.0029	0.78	GD
R8F3HV		0.2347	-0.0056	-1.18	0.1810	-0.0041	-1.14	IC
RA9VEZ	X	0.2347	-0.0056	-1.18	0.1570	-0.0281	-7.73	OE
RHNHN4	X	0.2585	0.0183	3.89	0.1977	0.0125	3.44	OE
RZJ8HC	X	0.2563	0.0161	3.43	0.1985	0.0134	3.67	OE
T68AZ3		0.2470	0.0068	1.44	0.1920	0.0069	1.88	XX
T7QXM3		0.2370	-0.0033	-0.69	0.1839	-0.0012	-0.33	OE
T8HUAC		0.2351	-0.0052	-1.10	0.1819	-0.0032	-0.88	IC
T8Z3ZR		0.2390	-0.0012	-0.26	0.1840	-0.0011	-0.31	IC
TZJHYZ		0.2317	-0.0086	-1.82	0.1807	-0.0045	-1.23	OE
U3LRHG		0.2370	-0.0032	-0.69	0.1810	-0.0041	-1.14	OE
UJ96YU		0.2527	0.0124	2.65	0.1940	0.0089	2.43	XX
UN4W8R		0.2423	0.0021	0.45	0.1853	0.0002	0.05	IC
UPDZ23		0.2386	-0.0017	-0.35	0.1856	0.0005	0.13	OE
V4BFHN		0.2363	-0.0039	-0.83	0.1803	-0.0048	-1.32	XX
VDCZHV		0.2426	0.0023	0.50	0.1856	0.0004	0.12	IC
VM2NDX	X	0.1187	-0.1216	-25.87	0.0920	-0.0931	-25.57	OE
VU3W4Y		0.2440	0.0038	0.80	0.1840	-0.0011	-0.31	OE
VWVTQ8		0.2437	0.0034	0.73	0.1880	0.0029	0.78	IC
VYXQ2Z		0.2431	0.0028	0.60	0.1868	0.0017	0.45	OE
W9XMCG		0.2403	0.0001	0.02	0.1867	0.0015	0.42	IC
WB4822		0.2423	0.0021	0.44	0.1869	0.0018	0.49	IC
WPNM8M		0.2387	-0.0016	-0.33	0.1850	-0.0001	-0.04	AE
WRDR4Z		0.2450	0.0048	1.02	0.1900	0.0049	1.33	OE
WVEXGK		0.2394	-0.0008	-0.18	0.1852	0.0000	0.01	OE
X366CV		0.2440	0.0038	0.80	0.1883	0.0032	0.87	OE
XD7BMW		0.2343	-0.0059	-1.25	0.1817	-0.0035	-0.96	XX
XL29E7		0.2393	-0.0009	-0.19	0.1887	0.0035	0.97	OE
YDNUV2		0.2397	-0.0006	-0.12	0.1857	0.0005	0.14	OE
YHF7LQ		0.2390	-0.0012	-0.26	0.1870	0.0019	0.51	DR
YPJTYZ		0.2477	0.0074	1.58	0.1857	0.0005	0.14	OE
YQURVU		0.2403	0.0001	0.02	0.1803	-0.0048	-1.32	IC
YWGHHP		0.2417	0.0014	0.31	0.1823	-0.0028	-0.77	XX
YZFTDP		0.2397	-0.0006	-0.12	0.1860	0.0009	0.23	IC
ZC78RC		0.2353	-0.0049	-1.04	0.1790	-0.0061	-1.69	GD
ZD2N8V		0.2470	0.0068	1.44	0.1914	0.0063	1.72	OE
ZHURVT	X	0.2547	0.0144	3.07	0.2137	0.0285	7.83	XR
ZM9KVX		0.2390	-0.0012	-0.26	0.1870	0.0019	0.51	OE
ZRKBCL		0.2446	0.0044	0.93	0.1856	0.0005	0.13	OE
ZYLHZ3		0.2453	0.0051	1.09	0.1880	0.0029	0.78	OE

Summary Statistics

	Sample L69		Sample L70	
Grand Means	0.2402	Percent	0.1851	Percent
Stnd Dev Btwn Labs	0.0047	Percent	0.0036	Percent

Samples L69, L70 : AISI 1045, AISI 1045

Statistics based on 122 of 141 reporting participants

Key to Method Codes Reported by Participants

AA	Spectrometry - Atomic Absorption (AAS)	AE	Spectrometry - Atomic Emission (AES)
DR	Spectrometry - Direct Reading OE (DROES)	GD	Spectrometry - Glow Discharge (GDS)
IC	Spectrometry - Inductively Coupled Plasma (ICP)	OE	Spectrometry - Optical Emission (OES)
WD	X-Ray Fluorescence - Wavelength Dispersive (WDX)	XR	X-Ray Fluorescence - ED or WD not specified
XX	Please Indicate Method Used for Current Element		

Comments on Assigned Data Flags for Test #1608

2J6V3P (X) - Data for sample L69 are high.

3RC47W (X) - Data for sample L70 are high.

7LFM28 (X) - Data for sample L69 are low.

962X2C (X) - Data for sample L70 are high.

D7E2XY (X) - Data for sample L70 are high.

D9N7C9 (X) - Data for both samples are low.

DT9842 (X) - Data for both samples are low.

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

FPMXBE (X) - Data for sample L70 are high.

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

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

RA9VEZ (X) - Data for sample L70 are low. Inconsistent within the determinations of sample L70.

RHNHN4 (X) - Data for both samples are high.

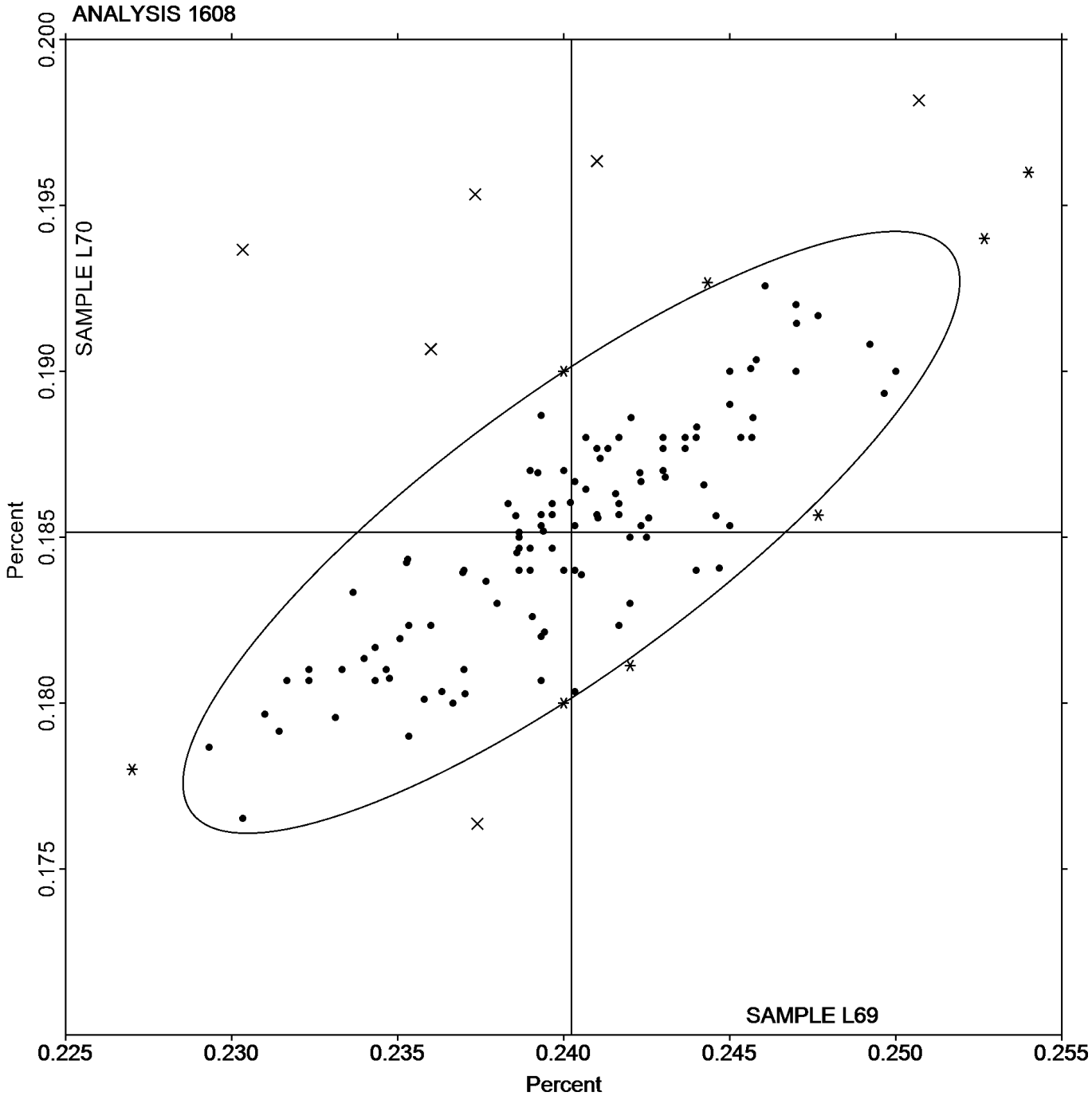
RZJ8HC (X) - Data for both samples are high.

VM2NDX (X) - Data for both samples are extremely low.

ZHURVT (X) - Data for both samples are high. Inconsistent within the determinations of sample L70.

SAMPLE L69
0.2402 Percent

SAMPLE L70
0.1851 Percent



		Sample L69			Sample L70			
WebCode	Data Flag	Lab Mean	Diff. from Grand Mean	CPV	Lab Mean	Diff. from Grand Mean	CPV	Method
2AWLDB	X	0.00580	-0.00342	-4.53	0.00450	-0.00278	-4.18	OE
2GKXZT	X	0.0181	0.00891	11.79	0.00993	0.00266	4.01	OE
2KE2HY		0.00900	-0.00022	-0.29	0.00767	0.00039	0.59	OE
2KJ9VT	X	0.0123	0.00311	4.12	0.0100	0.00273	4.11	OE
3KDPZ2		0.00950	0.00028	0.37	0.00757	0.00029	0.44	CO
4434EQ		0.00943	0.00021	0.28	0.00743	0.00016	0.24	OE
46C9RE	*	0.00717	-0.00205	-2.72	0.00680	-0.00047	-0.71	OE
4CDPZY		0.00840	-0.00082	-1.09	0.00740	0.00013	0.19	XX
73XQG8		0.00997	0.00075	0.99	0.00827	0.00099	1.49	XX
7LFM28		0.00913	-0.00009	-0.12	0.00773	0.00046	0.69	XX
7WUJ36		0.00920	-0.00002	-0.03	0.00723	-0.00004	-0.06	OE
86HURQ		0.00933	0.00011	0.15	0.00733	0.00006	0.09	CL
99VYYK		0.00883	-0.00039	-0.51	0.00727	-0.00001	-0.01	XX
9GUGFH		0.00840	-0.00082	-1.09	0.00673	-0.00054	-0.82	OE
9JKHL6		0.00913	-0.00009	-0.12	0.00683	-0.00044	-0.66	CO
9L4TGN		0.00977	0.00055	0.72	0.00760	0.00033	0.49	CO
9RB4R4		0.00973	0.00051	0.68	0.00730	0.00003	0.04	CO
A2XP8L		0.00833	-0.00089	-1.17	0.00693	-0.00034	-0.51	AE
C3YA9Q		0.00990	0.00068	0.90	0.00787	0.00059	0.89	CI
CBD7YJ		0.00937	0.00015	0.19	0.00730	0.00003	0.04	XX
CEA2FX		0.00860	-0.00062	-0.82	0.00670	-0.00057	-0.87	XX
CEYZUY		0.00993	0.00071	0.94	0.00790	0.00063	0.94	OE
CGY9X9		0.00790	-0.00132	-1.75	0.00623	-0.00104	-1.57	OE
D7YZUW		0.00807	-0.00115	-1.53	0.00693	-0.00034	-0.51	OE
D9N7C9		0.00790	-0.00132	-1.75	0.00623	-0.00104	-1.57	OE
DJJEVB	M	0.0119	0.00265	3.50	No Data Reported			XX
DNF4E3		0.00864	-0.00058	-0.77	0.00637	-0.00090	-1.36	XX
F8HXWJ		0.00857	-0.00065	-0.87	0.00643	-0.00084	-1.27	OE
FA84EV		0.00927	0.00005	0.06	0.00717	-0.00011	-0.16	XX
FCCRW7		0.00857	-0.00065	-0.87	0.00693	-0.00034	-0.51	OE
FEZ4VC		0.00980	0.00058	0.77	0.00787	0.00059	0.89	OE
FFVMWD		0.00873	-0.00049	-0.65	0.00687	-0.00041	-0.61	CI
FTHWGX	X	0.0358	0.02658	35.16	0.0360	0.02870	43.23	OE
G4JUQJ		0.0110	0.00181	2.40	0.00903	0.00176	2.65	AA
GY7VD4		0.00923	0.00001	0.02	0.00743	0.00016	0.24	CI
HHEK2L		0.00950	0.00028	0.37	0.00737	0.00009	0.14	XX
J4BEN3		0.00890	-0.00032	-0.43	0.00703	-0.00024	-0.36	CO
K4P697		0.00837	-0.00085	-1.13	0.00670	-0.00057	-0.87	OE
KJMALA		0.00987	0.00065	0.85	0.00830	0.00103	1.54	OE
KNT624		0.00910	-0.00012	-0.16	0.00720	-0.00007	-0.11	OE
LHLYY7		0.00910	-0.00012	-0.16	0.00697	-0.00031	-0.46	OE
LYWBYC		0.0110	0.00178	2.35	0.00833	0.00106	1.60	XX
MTXLKC		0.00917	-0.00005	-0.07	0.00737	0.00009	0.14	XX
MYL9FG	X	0.00767	-0.00155	-2.06	0.00700	-0.00027	-0.41	OE
NDG3C9		0.00910	-0.00012	-0.17	0.00746	0.00018	0.27	CI
NGYARV	X	0.00317	-0.00605	-8.01	0.00200	-0.00527	-7.95	DR
NPC426	X	0.1010	0.09178	121.39	0.0697	0.06239	93.98	OE

		Sample L69			Sample L70			
WebCode	Data Flag	Lab Mean	Diff. from Grand Mean	CPV	Lab Mean	Diff. from Grand Mean	CPV	Method
P4QQRE		0.00987	0.00065	0.85	0.00790	0.00063	0.94	XX
PBUNLD		0.0104	0.00121	1.60	0.00867	0.00139	2.10	OE
PQ4G6A		0.00973	0.00051	0.68	0.00757	0.00029	0.44	OE
PQJZP8		0.00971	0.00049	0.64	0.00725	-0.00003	-0.04	IR
Q9GFPX		0.00883	-0.00039	-0.51	0.00680	-0.00047	-0.71	XX
RA9VEZ		0.00870	-0.00052	-0.69	0.00677	-0.00051	-0.76	OE
RZJ8HC	X	0.00713	-0.00209	-2.76	0.00917	0.00189	2.85	IR
T7QXM3	*	0.0111	0.00185	2.44	0.00840	0.00113	1.70	OE
T8Z3ZR	X	0.00653	-0.00269	-3.56	0.00543	-0.00184	-2.77	CI
UN4W8R		0.00853	-0.00069	-0.91	0.00590	-0.00137	-2.07	CO
VDCZHV		0.00890	-0.00032	-0.43	0.00690	-0.00037	-0.56	CI
VM2NDX	X	0.0349	0.02568	33.96	0.0325	0.02526	38.05	OE
VU3W4Y		0.00800	-0.00122	-1.62	0.00600	-0.00127	-1.92	CI
VYXQ2Z		0.00960	0.00038	0.50	0.00767	0.00039	0.59	XX
W9XMCG		0.00930	0.00008	0.10	0.00727	-0.00001	-0.01	CO
WB4822		0.00947	0.00025	0.32	0.00753	0.00026	0.39	XX
WPNM8M		0.00953	0.00031	0.41	0.00717	-0.00011	-0.16	XX
WRDR4Z	X	0.00203	-0.00719	-9.51	0.000833	-0.00644	-9.70	XX
WVEXGK		0.00967	0.00045	0.59	0.00720	-0.00007	-0.11	XX
X366CV		0.00970	0.00048	0.63	0.00748	0.00020	0.30	CO
YQURVU		0.00940	0.00018	0.24	0.00757	0.00029	0.44	CO
YZFTDP		0.00840	-0.00082	-1.09	0.00653	-0.00074	-1.12	IC
ZD2N8V	X	0.0134	0.00423	5.59	0.0125	0.00525	7.91	OE
ZM9KVX		0.00781	-0.00141	-1.87	0.00587	-0.00141	-2.12	OE
ZYLHZ3		0.0104	0.00121	1.60	0.00820	0.00093	1.39	OE

Summary Statistics

	Sample L69		Sample L70	
Grand Means	0.00922	Percent	0.00727	Percent
Stnd Dev Btwn Labs	0.00076	Percent	0.00066	Percent

Samples L69, L70 : AISI 1045, AISI 1045

Statistics based on 58 of 72 reporting participants

Key to Method Codes Reported by Participants

AA	Spectrometry - Atomic Absorption (AAS)	AE	Spectrometry - Atomic Emission (AES)
CI	Combustion / IR	CL	Colorimetry
CO	Combustion	DR	Spectrometry - Direct Reading OE (DROES)
IC	Spectrometry - Inductively Coupled Plasma (ICP)	IR	IR (Absorption / Detection)
OE	Spectrometry - Optical Emission (OES)	XX	Please Indicate Method Used for Current Element

Comments on Assigned Data Flags for Test #1612

2AWLDB (X) - Data for both samples are low. Possible Systematic Error.

2GKXZT (X) - Data for both samples are high. Possible Systematic Error. Inconsistent within the determinations of both samples.

2KJ9VT (X) - Data for both samples are high. Possible Systematic Error.

DJJEVB (M) - Participant did not submit data for sample L70.

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

MYL9FG (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample L70.

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

NPC426 (X) - Extreme data.

RZJ8HC (X) - Data for sample L69 are low and data for sample L70 are high. Inconsistent in testing between samples.

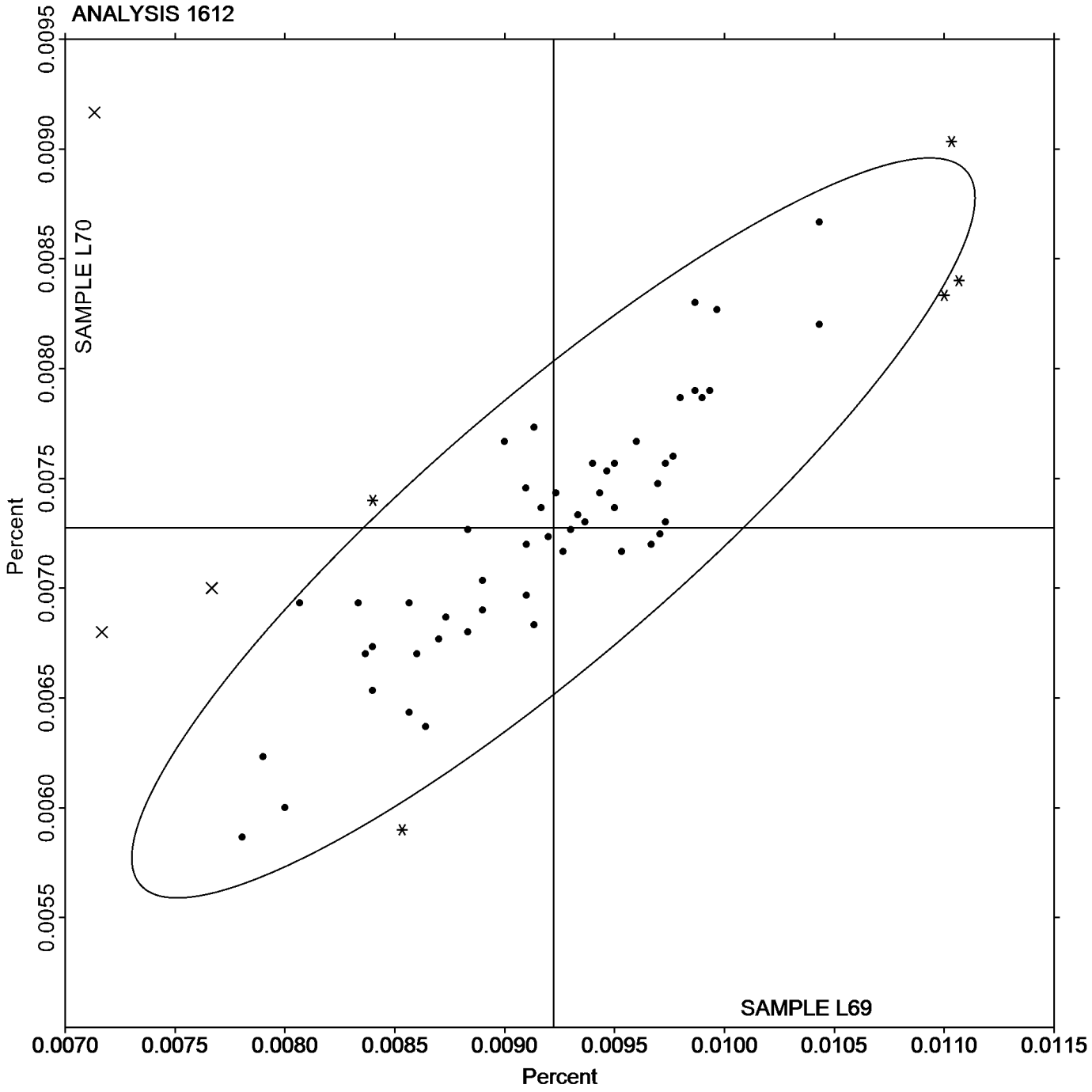
T8Z3ZR (X) - Data for both samples are low. Possible Systematic Error.

VM2NDX (X) - Data for both samples are extremely high. Possible Systematic Error. Inconsistent within the determinations of both samples.

WRDR4Z (X) - Data for both samples are low. Possible Systematic Error.

ZD2N8V (X) - Data for both samples are high. Possible Systematic Error. Inconsistent within the determinations of sample L70.

SAMPLE L69	SAMPLE L70
0.00922 Percent	0.00727 Percent



-End of Report-

