

Rijkswaterstaat

Rijksinstituut voor Integraal Zoetwaterbeheer en
Afvalwaterbehandeling RIZA



Laboratoriumevaluerend onderzoek;

Project 172 - Sediment, Totaal Pakket
1 november 1999

Bijlage 1, monsters 99090 en 99094

Auteur	S.T. van der Velde
Datum	21 januari 2000
Afdeling	IMLK
Werkdocumentnr:	99.068X

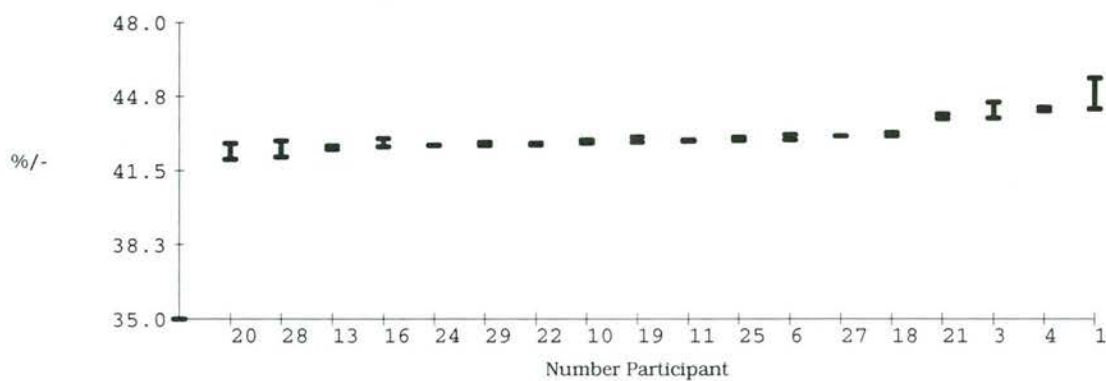


Job 1 : 99090, 99094

percentage drooggewicht (bij 105 graden celcius)., %DW in %/- Sediment (Lake)

Lab *	X1 *	X2 *	Average *	%Variance *	
1 *	43.20000	45.14000	44.17000	3.1 %	*
2 *			.00000	0 %	* - N.V.
3 *	43.28000	44.27000	43.77500	1.6 %	*
4 *	44.20000	44.00000	44.10000	.3 %	*
5 *			.00000	0 %	* - N.V.
6 *	42.70000	43.00000	42.85000	.5 %	*
7 *			.00000	0 %	* - N.V.
8 *			.00000	0 %	* - N.V.
9 *	43.00000	56.00000	49.50000	18.6 %	*
10 *	42.80000	42.60000	42.70000	.3 %	*
11 *	42.74000	42.82000	42.78000	.1 %	*
12 *			.00000	0 %	* - N.V.
13 *	42.54000	42.34000	42.44000	.3 %	*
14 *			.00000	0 %	* - N.V.
15 *			.00000	0 %	* - N.V.
16 *	42.80000	42.30000	42.55000	.8 %	*
17 *			.00000	0 %	* - N.V.
18 *	43.10000	42.90000	43.00000	.3 %	*
19 *	42.90000	42.60000	42.75000	.5 %	*
20 *	41.50000	42.49000	41.99500	1.7 %	*
21 *	43.90000	43.60000	43.75000	.5 %	*
22 *	42.56000	42.67000	42.61500	.2 %	*
23 *			.00000	0 %	* - N.V.
24 *	42.57000	42.61000	42.59000	.1 %	*
25 *	42.90000	42.71000	42.80500	.3 %	*
26 *			.00000	0 %	* - N.V.
27 *	43.00000	43.00000	43.00000	.0 %	*
28 *	42.60000	41.60000	42.10000	1.7 %	*
29 *	42.50000	42.70000	42.60000	.3 %	*

Job 1: percentage drooggewicht (bij 105 graden celcius).



Analysis

Kolmogorov-Smirnov test on assuming a Normal distribution. 1 % unreliability;

19 laboratory observations

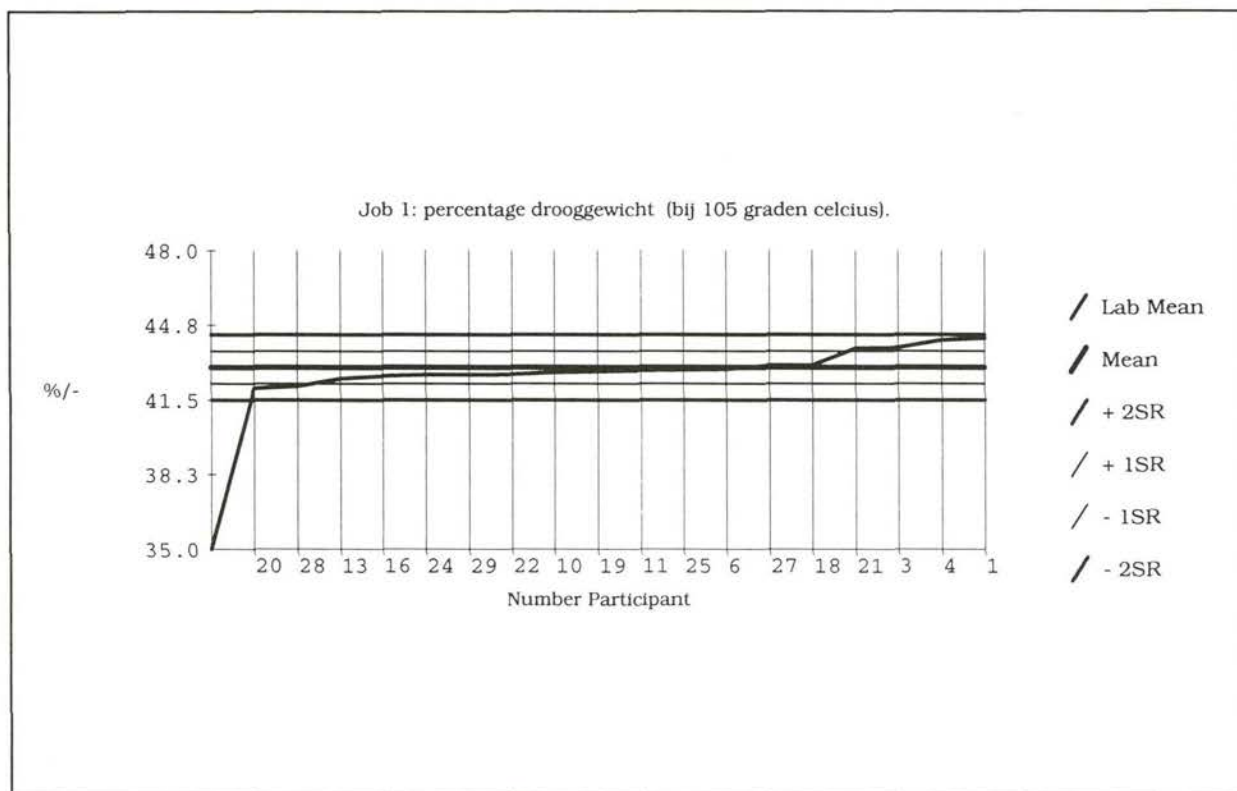
Maximum absolute difference from Normal distribution: 0.30040. Critical value: 0.36100. KS-test passed

COCHRAN; 1 % ; replicas: 2

Cyc *	Lab *	Average *	Variance *	Result *	Value
1 *	9 *	49.50000 *	9.19239 *	.95751 *	.49614

Summary

1. Eliminations due to
 - 1.1 Repeatability = 1
 - 1.2 Reproducibility = 0
 - 1.3 Manual rejected = 0
2. General Mean = 42.92056
3. Repeatability
 - 3.1 Standard deviation $S_r = .45644$
 - 3.2 Coefficient of variation = 1 %
4. Reproducibility
 - 4.1 Standard deviation $S_R = .70599$
 - 4.2 Coefficient of variation = 2 %



Job Classification

Lab *	Mean *	Clas *	Ext *	Clean *	Det *	Procedure *	
7 *	.00000 *	G *	? *	? *	? *	NEN 6620	*
8 *	.00000 *	G *	? *	? *	? *	?	*
14 *	.00000 *	G *	- *	- *	- *	-	*
2 *	.00000 *	G *	- *	- *	- *	-	*
15 *	.00000 *	G *	? *	? *	? *	?	*
26 *	.00000 *	G *	- *	- *	- *	G-NEN 6620	*
17 *	.00000 *	G *	- *	- *	- *	HUIS	*
5 *	.00000 *	G *	- *	- *	- *	-	*
12 *	.00000 *	G *	- *	- *	- *	-	*
23 *	.00000 *	G *	- *	- *	- *	-	*
20 *	41.99500 *	B *	- *	- *	- *	NEN 6620	*
28 *	42.10000 *	B *	- *	- *	- *	NEN 5747	*
13 *	42.44000 *	A *	- *	- *	- *	G-NEN 6620	*
16 *	42.55000 *	A *	- *	- *	- *	C-NEN 6620	*
24 *	42.59000 *	A *	- *	- *	Z *	NEN 6620	*
29 *	42.60000 *	A *	- *	- *	Z *	HUIS	*
22 *	42.61500 *	A *	- *	- *	- *	-	*
10 *	42.70000 *	A *	- *	- *	- *	C-NEN 6620	*
19 *	42.75000 *	A *	- *	- *	Z *	G-NEN 6620	*
11 *	42.78000 *	A *	- *	- *	- *	C-NEN 6620	*
25 *	42.80500 *	A *	Z *	- *	Z *	NEN 6620	*
6 *	42.85000 *	A *	? *	? *	? *	HUIS	*
27 *	43.00000 *	A *	- *	- *	- *	NEN 6620	*
18 *	43.00000 *	A *	- *	- *	- *	C-NEN 6620	*
21 *	43.75000 *	B *	- *	- *	- *	NEN 6620	*
3 *	43.77500 *	B *	- *	- *	- *	NEN 5748	*
4 *	44.10000 *	B *	- *	- *	- *	-	*
1 *	44.17000 *	B *	- *	- *	- *	G-NEN 5747	*
9 *	49.50000 *	W *	- *	- *	- *	-	*

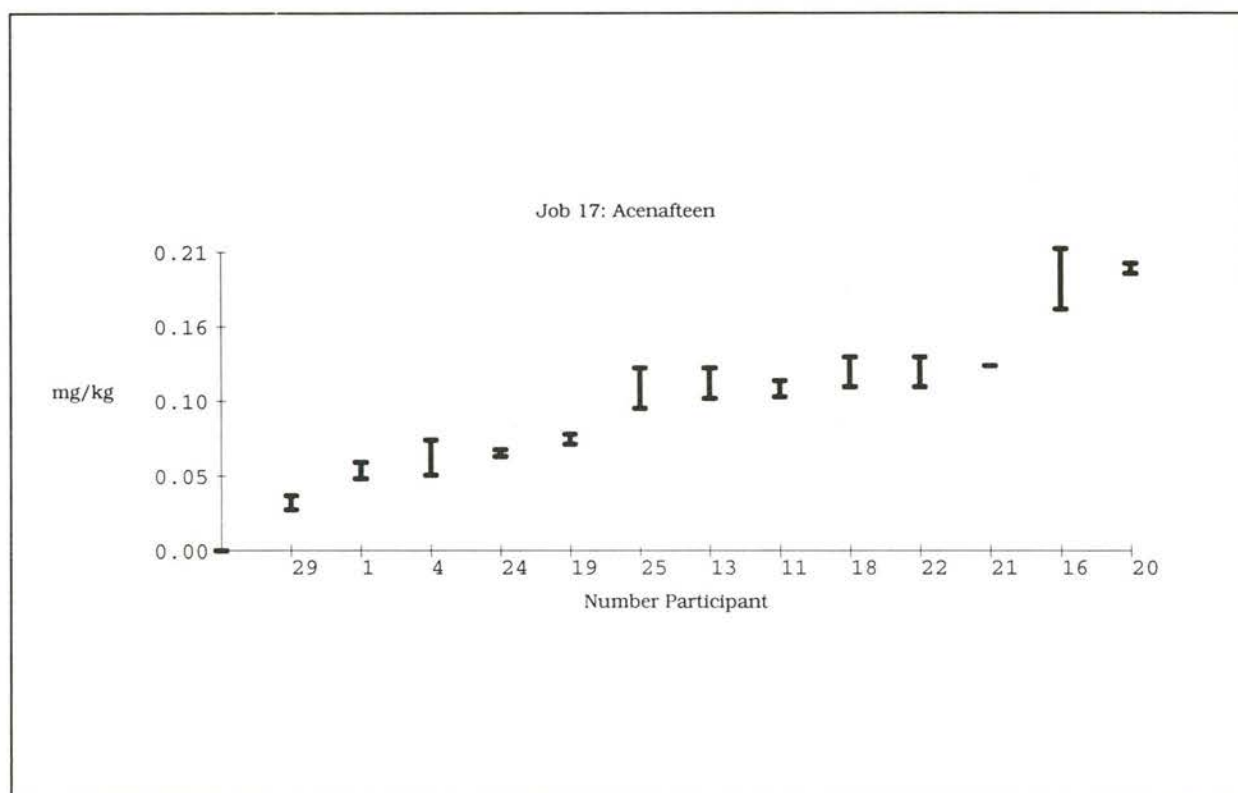
General Mean = 42.92056
Between lab standard deviation SL = .53860
Coefficient of variation = 1 %
Number of laboratories = 18

A: Number of laboratories with	Z	-scores between 0 and 1	; 12
B: Number of laboratories with	Z	-scores between 1 and 2	; 6
C: Number of laboratories with	Z	-scores between 2 and 3	; 0
D: Number of laboratories with	Z	-scores larger than 3	; 0

Job 17 : 99090, 99094

Acenafteen, Ace in mg/kg Sediment (Lake)

Lab *	X1 *	X2 *	Average *	%Variance *	
1 *	.05898 *	.04248 *	.05073 *	23.0 % *	
2 *			.00000 *	0 % *	- N.V.
3 *	1.00000 *	1.00000 *	.00000 *	0 % *	- N.V. Manueel verwijderd
4 *	.07070 *	.03620 *	.05345 *	45.6 % *	
5 *			.00000 *	0 % *	- N.V.
6 *			.00000 *	0 % *	- N.V.
7 *			.00000 *	0 % *	- N.V.
8 *			.00000 *	0 % *	- N.V.
9 *			.00000 *	0 % *	- N.V.
10 *			.00000 *	0 % *	- N.V.
11 *	.11600 *	.10000 *	.10800 *	10.5 % *	
12 *			.00000 *	0 % *	- N.V.
13 *	.12200 *	.09200 *	.10700 *	19.8 % *	
14 *			.00000 *	0 % *	- N.V.
15 *			.00000 *	0 % *	- N.V.
16 *	.20000 *	.14000 *	.17000 *	25.0 % *	
17 *	.05000 *	.05000 *	.00000 *	0 % *	< N.V.
18 *	.10000 *	.13000 *	.11500 *	18.4 % *	
19 *	.07000 *	.08000 *	.07500 *	9.4 % *	
20 *	.19000 *	.20000 *	.19500 *	3.6 % *	
21 *	.13000 *	.13000 *	.13000 *	.0 % *	
22 *	.10000 *	.13000 *	.11500 *	18.4 % *	
23 *			.00000 *	0 % *	- N.V.
24 *	.06980 *	.06310 *	.06645 *	7.1 % *	
25 *	.12000 *	.08000 *	.10000 *	28.3 % *	
26 *			.00000 *	0 % *	- N.V.
27 *			.00000 *	0 % *	- N.V.
28 *	.10000 *	.10200 *	.00000 *	0 % *	< N.V.
29 *	.03600 *	.02200 *	.02900 *	34.1 % *	



Analysis

Kolmogorov-Smirnov test on assuming a Normal distribution. 1 % unreliability;

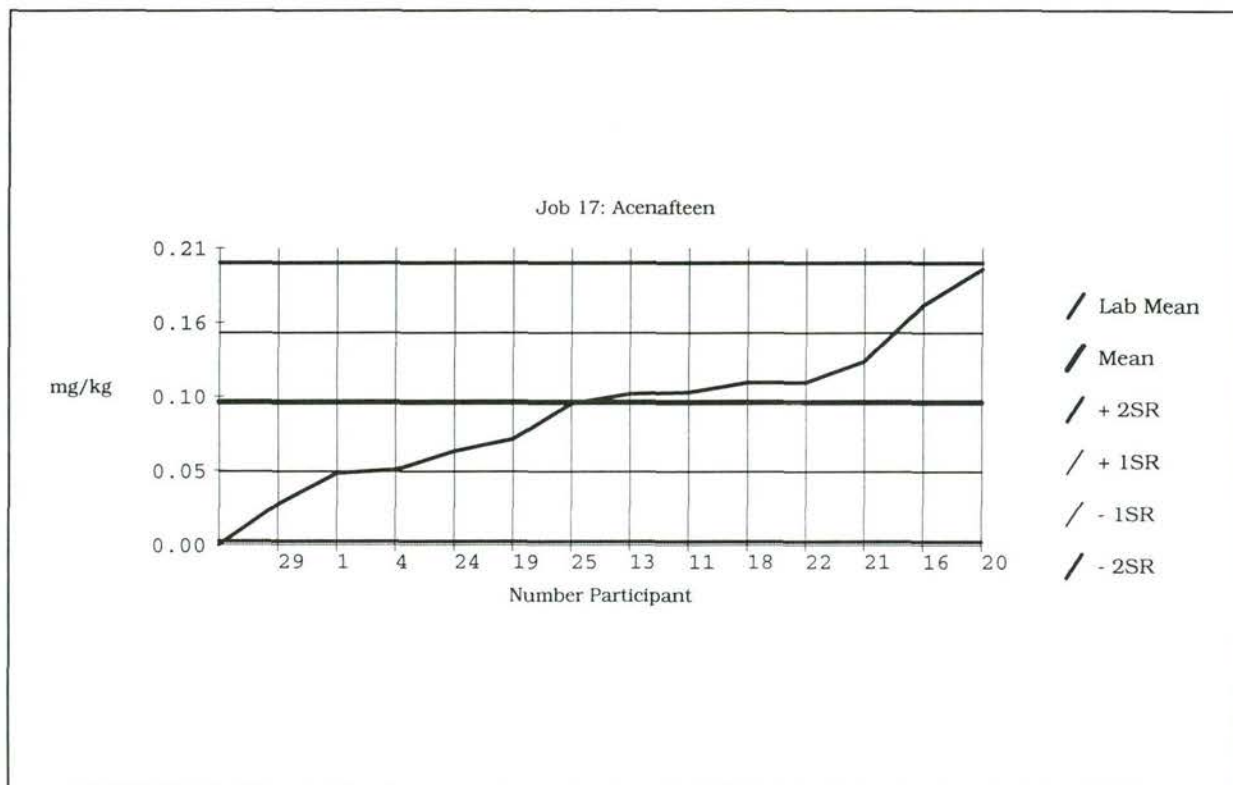
13 laboratory observations

Maximum absolute difference from Normal distribution: 0.15513. Critical value: 0.43200. KS-test passed

No outliers found

Summary

1. Eliminations due to
 - 1.1 Repeatability = 0
 - 1.2 Reproducibility = 0
 - 1.3 Manual rejected = 1
2. General Mean = .10113
3. Repeatability
 - 3.1 Standard deviation $S_r = .01967$
 - 3.2 Coefficient of variation = 19 %
4. Reproducibility
 - 4.1 Standard deviation $S_R = .04923$
 - 4.2 Coefficient of variation = 49 %



Job Classification

Lab *	Mean *	Clas *	Ext *	Clean *	Det *	Procedure *	
7 *	.00000	G	?	?	?	?	*
8 *	.00000	G	?	?	?	?	*
14 *	.00000	G	-	-	-	-	*
2 *	.00000	G	-	-	-	-	*
9 *	.00000	G	-	-	-	-	*
15 *	.00000	G	?	?	?	?	*
26 *	.00000	G	-	-	-	-	*
3 *	.00000	G	-	-	LMC	NEN 5731	*
10 *	.00000	G	-	-	-	-	*
27 *	.00000	G	-	-	-	-	*
17 *	.00000	G	LE	SC	LMC	HUIS	*
28 *	.00000	G	-	-	-	-	*
5 *	.00000	G	-	-	-	-	*
12 *	.00000	G	-	-	-	-	*
23 *	.00000	G	-	-	-	-	*
6 *	.00000	G	-	-	-	-	*
29 *	.02900	B	LD	-	LMC	HUIS	*
1 *	.05073	B	S	-	LUF	G-20-NEN 5771	*
4 *	.05345	B	-	-	-	-	*
24 *	.06645	A	LE	Z	LMC	A-O-NEN 5771	*
19 *	.07500	A	LE	C	LMC	VPR C85-11	*
25 *	.10000	A	LH	-	LMC	G-NEN 5771	*
13 *	.10700	A	LA	-	LUF	HUIS	*
11 *	.10800	A	LE	-	LMC	A-NEN 5771	*
22 *	.11500	A	-	-	-	-	*
18 *	.11500	A	LA	C	LMC	HUIS	*
21 *	.13000	A	-	-	LMC	NEN 5771	*
16 *	.17000	B	LE	C	LMC	C-O-NEN 5771	*
20 *	.19500	B	LE	-	LMC	2e O-NEN 5771	*

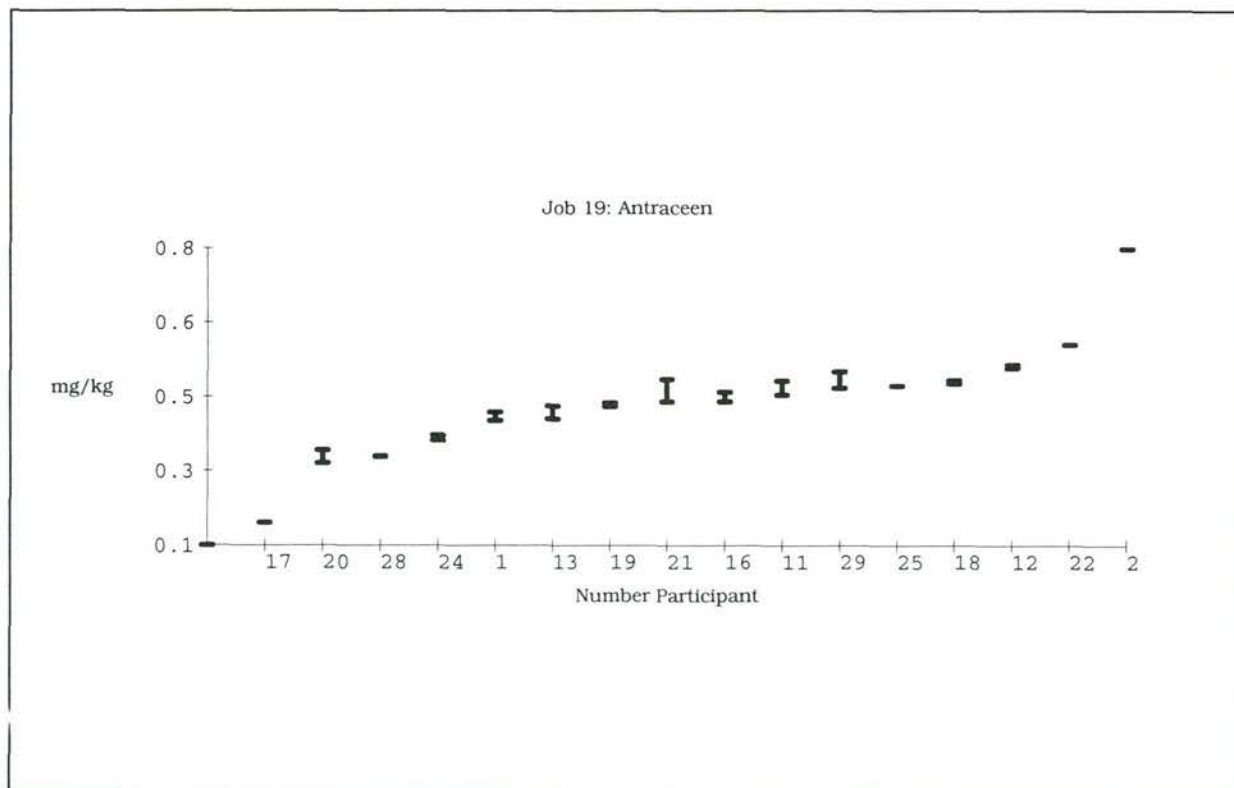
General Mean = .10113
Between lab standard deviation SL = .04513
Coefficient of variation = 45 %
Number of laboratories = 13

A: Number of laboratories with	Z	-scores between 0 and 1	; 8
B: Number of laboratories with	Z	-scores between 1 and 2	; 5
C: Number of laboratories with	Z	-scores between 2 and 3	; 0
D: Number of laboratories with	Z	-scores larger than 3	; 0

Job 19 : 99090, 99094

Antraceen, Ant in mg/kg Sediment (Lake)

Lab *	X1 *	X2 *	Average *	%Variance *	
1 *	.43680 *	.40950 *	.42315 *	4.6 % *	
2 *	.80000 *	.80000 *	.80000 *	.0 % *	
3 *	.90000 *	.88000 *	.00000 *	0 % *	- N.V.Manueel verwijderd
4 *	.34610 *	1.48400 *	.91505 *	87.9 % *	
5 *			.00000 *	0 % *	- N.V.
6 *			.00000 *	0 % *	- N.V.
7 *			.00000 *	0 % *	- N.V.
8 *			.00000 *	0 % *	- N.V.
9 *			.00000 *	0 % *	- N.V.
10 *			.00000 *	0 % *	- N.V.
11 *	.50200 *	.45800 *	.48000 *	6.5 % *	
12 *	.53400 *	.54400 *	.53900 *	1.3 % *	
13 *	.44700 *	.40600 *	.42650 *	6.8 % *	
14 *			.00000 *	0 % *	- N.V.
15 *			.00000 *	0 % *	- N.V.
16 *	.48000 *	.45000 *	.46500 *	4.6 % *	
17 *	.20000 *	.20000 *	.20000 *	.0 % *	
18 *	.51000 *	.50000 *	.50500 *	1.4 % *	
19 *	.45000 *	.46000 *	.45500 *	1.6 % *	
20 *	.35000 *	.31000 *	.33000 *	8.6 % *	
21 *	.50000 *	.43000 *	.46500 *	10.6 % *	
22 *	.59000 *	.59000 *	.59000 *	.0 % *	
23 *			.00000 *	0 % *	- N.V.
24 *	.38760 *	.37260 *	.38010 *	2.8 % *	
25 *	.50000 *	.50000 *	.50000 *	.0 % *	
26 *			.00000 *	0 % *	- N.V.
27 *			.00000 *	0 % *	- N.V.
28 *	.34500 *	.34300 *	.34400 *	.4 % *	
29 *	.52000 *	.47000 *	.49500 *	7.1 % *	



Analysis

Kolmogorov-Smirnov test on assuming a Normal distribution. 1 % unreliability;

17 laboratory observations

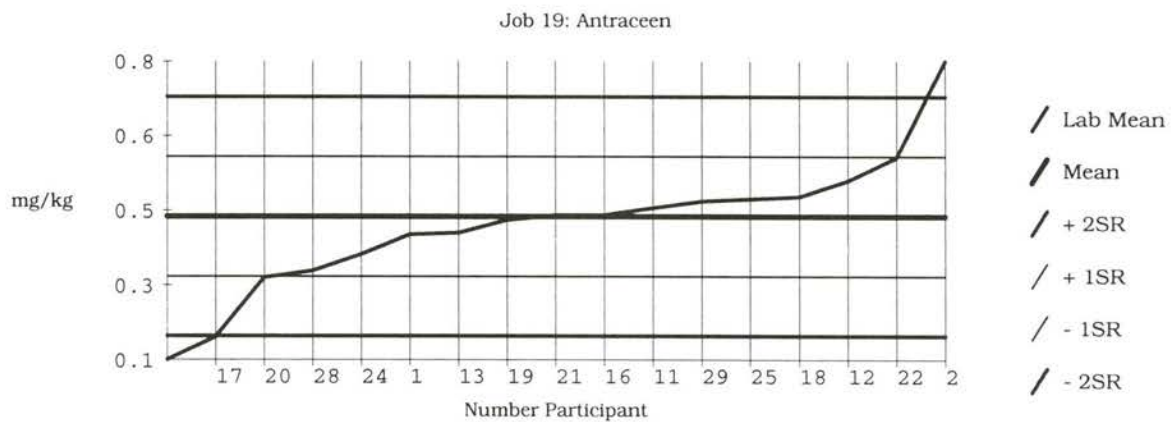
Maximum absolute difference from Normal distribution: 0.22488. Critical value: 0.38100. KS-test passed

COCHRAN; 1 % ; replicas: 2

Cyc	Lab	Average	Variance	Result	Value
1	4	.91505	.80462	.98871	.53233

Summary

1. Eliminations due to
 - 1.1 Repeatability = 1
 - 1.2 Reproducibility = 0
 - 1.3 Manual rejected = 1
2. General Mean = .46236
3. Repeatability
 - 3.1 Standard deviation $S_r = .02150$
 - 3.2 Coefficient of variation = 5 %
4. Reproducibility
 - 4.1 Standard deviation $S_R = .13020$
 - 4.2 Coefficient of variation = 28 %



Job Classification

Lab *	Mean *	Clas *	Ext *	Clean *	Det *	Procedure *	
7 *	.00000 *	G *	? *	? *	? *	? *	*
8 *	.00000 *	G *	? *	? *	? *	? *	*
14 *	.00000 *	G *	- *	- *	- *	- *	*
9 *	.00000 *	G *	- *	- *	- *	- *	*
15 *	.00000 *	G *	? *	? *	? *	? *	*
26 *	.00000 *	G *	- *	- *	- *	- *	*
3 *	.00000 *	G *	- *	- *	LMC *	NEN 5731	*
10 *	.00000 *	G *	- *	- *	- *	- *	*
27 *	.00000 *	G *	- *	- *	- *	- *	*
5 *	.00000 *	G *	- *	- *	- *	- *	*
23 *	.00000 *	G *	- *	- *	- *	- *	*
6 *	.00000 *	G *	- *	- *	- *	- *	*
17 *	.20000 *	C *	LE *	SC *	LMC *	HUIS	*
20 *	.33000 *	B *	LE *	- *	LMC *	2e O-NEN 5771	*
28 *	.34400 *	A *	- *	- *	- *	- *	*
24 *	.38010 *	A *	LE *	Z *	LMC *	A-O-NEN 5771	*
1 *	.42315 *	A *	- *	- *	- *	- *	*
13 *	.42650 *	A *	LA *	- *	LUF *	HUIS	*
19 *	.45500 *	A *	LE *	C *	LMC *	VPR C85-11	*
21 *	.46500 *	A *	- *	- *	LMC *	NEN 5771	*
16 *	.46500 *	A *	LE *	C *	LMC *	C-O-NEN 5771	*
11 *	.48000 *	A *	LE *	- *	LMC *	A-NEN 5771	*
29 *	.49500 *	A *	LD *	- *	LMC *	HUIS	*
25 *	.50000 *	A *	LH *	- *	LMC *	G-NEN 5771	*
18 *	.50500 *	A *	LA *	C *	LMC *	HUIS	*
12 *	.53900 *	A *	Z *	- *	LUF *	HUIS	*
22 *	.59000 *	A *	- *	- *	- *	- *	*
2 *	.80000 *	C *	- *	- *	- *	- *	*
4 *	.91505 *	W *	- *	- *	- *	- *	*

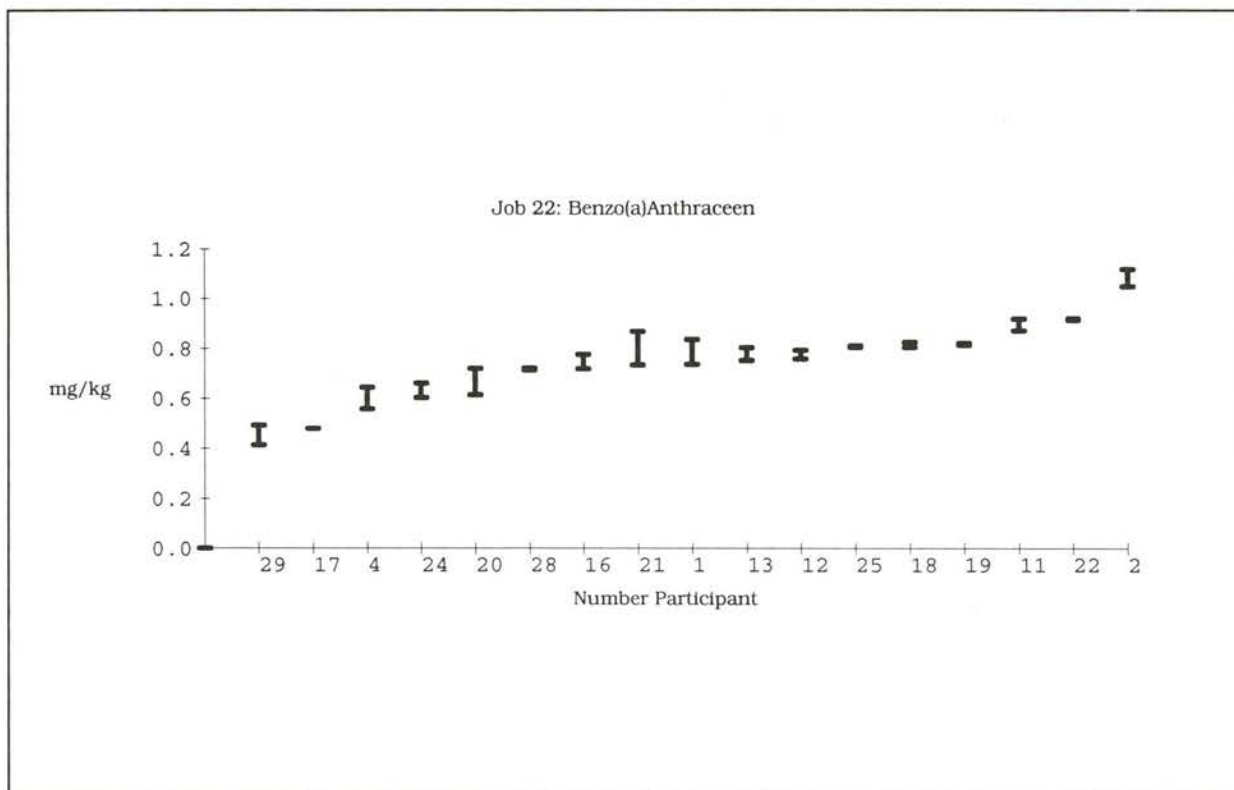
General Mean = .46236
Between lab standard deviation SL = .12841
Coefficient of variation = 28 %
Number of laboratories = 16

A: Number of laboratories with	Z	-scores between 0 and 1	; 13
B: Number of laboratories with	Z	-scores between 1 and 2	; 1
C: Number of laboratories with	Z	-scores between 2 and 3	; 2
D: Number of laboratories with	Z	-scores larger than 3	; 0

Job 22 : 99090, 99094

Benzo(a)Anthraceen, BaA in mg/kg Sediment (Lake)

Lab *	X1 *	X2 *	Average *	%Variance *	
1 *	.80720 *	.66840 *	.73780 *	13.3 % *	
2 *	1.00000 *	1.10000 *	1.05000 *	6.7 % *	
3 *	1.28000 *	1.25000 *	.00000 *	0 % *	- N.V.Manueel verwijderd
4 *	.49680 *	.61930 *	.55805 *	15.5 % *	
5 *			.00000 *	0 % *	- N.V.
6 *			.00000 *	0 % *	- N.V.
7 *			.00000 *	0 % *	- N.V.
8 *			.00000 *	0 % *	- N.V.
9 *			.00000 *	0 % *	- N.V.
10 *			.00000 *	0 % *	- N.V.
11 *	.90700 *	.83800 *	.87250 *	5.6 % *	
12 *	.73400 *	.78400 *	.75900 *	4.7 % *	
13 *	.78900 *	.71600 *	.75250 *	6.9 % *	
14 *			.00000 *	0 % *	- N.V.
15 *			.00000 *	0 % *	- N.V.
16 *	.76000 *	.68000 *	.72000 *	7.9 % *	
17 *	.48000 *	.48000 *	.48000 *	.0 % *	
18 *	.79000 *	.82000 *	.80500 *	2.6 % *	
19 *	.82000 *	.81000 *	.81500 *	.9 % *	
20 *	.69000 *	.54000 *	.61500 *	17.2 % *	
21 *	.83000 *	.64000 *	.73500 *	18.3 % *	
22 *	.91000 *	.92000 *	.91500 *	.8 % *	
23 *			.00000 *	0 % *	- N.V.
24 *	.56310 *	.64480 *	.60395 *	9.6 % *	
25 *	.80000 *	.81000 *	.80500 *	.9 % *	
26 *			.00000 *	0 % *	- N.V.
27 *			.00000 *	0 % *	- N.V.
28 *	.71000 *	.72000 *	.71500 *	1.0 % *	
29 *	.47000 *	.36000 *	.41500 *	18.7 % *	



Analysis

Kolmogorov-Smirnov test on assuming a Normal distribution. 1 % unreliability;

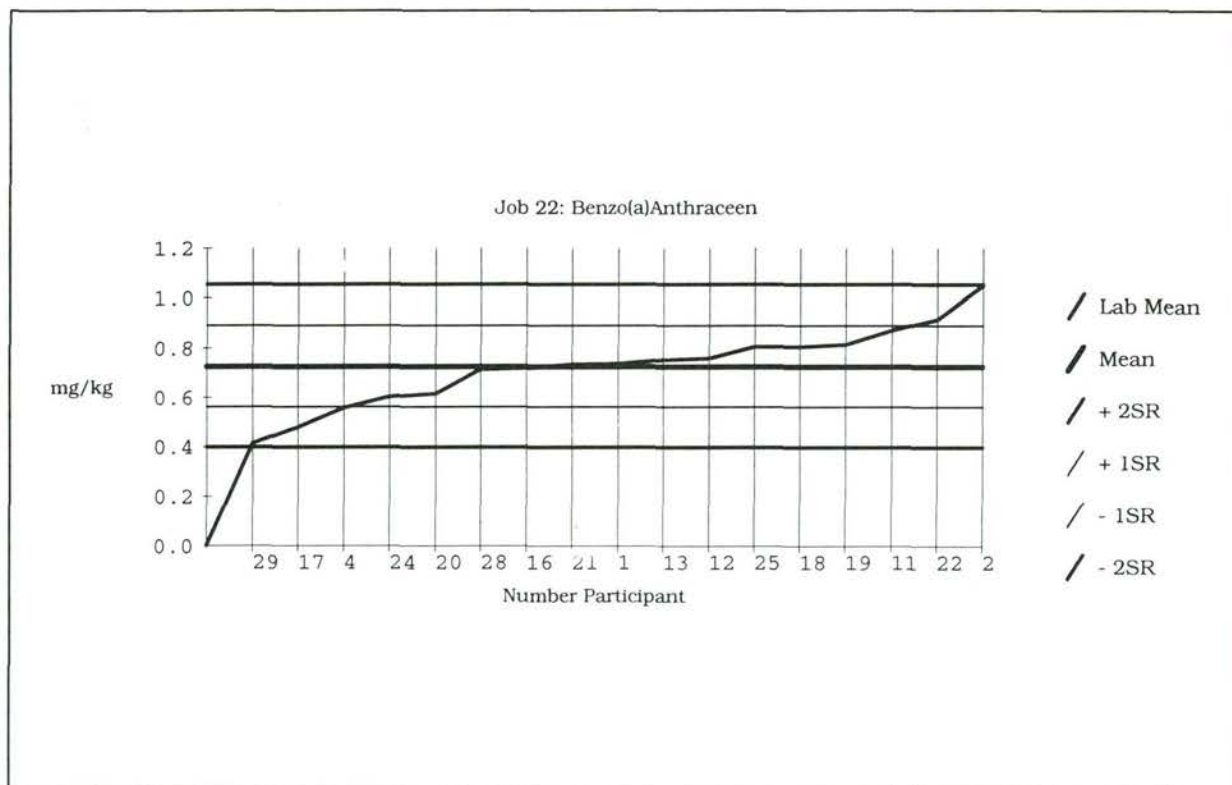
17 laboratory observations

Maximum absolute difference from Normal distribution: 0.11915. Critical value: 0.38100. KS-test passed

No outliers found

Summary

1. Eliminations due to
 - 1.1 Repeatability = 0
 - 1.2 Reproducibility = 0
 - 1.3 Manual rejected = 1
2. General Mean = .72669
3. Repeatability
 - 3.1 Standard deviation $S_r = .05461$
 - 3.2 Coefficient of variation = 9 %
4. Reproducibility
 - 4.1 Standard deviation $S_R = .16408$
 - 4.2 Coefficient of variation = 23 %



Job Classification

Lab *	Mean *	Clas *	Ext *	Clean *	Det *	Procedure *	
7 *	.00000	G	?	?	?	?	*
8 *	.00000	G	?	?	?	?	*
14 *	.00000	G	-	-	-	-	*
9 *	.00000	G	-	-	-	-	*
15 *	.00000	G	?	?	?	?	*
26 *	.00000	G	-	-	-	-	*
3 *	.00000	G	-	-	LMC	NEN 5731	*
10 *	.00000	G	-	-	-	-	*
27 *	.00000	G	-	-	-	-	*
5 *	.00000	G	-	-	-	-	*
23 *	.00000	G	-	-	-	-	*
6 *	.00000	G	-	-	-	-	*
29 *	.41500	B	LD	-	LMC	HUIS	*
17 *	.48000	B	LE	SC	LMC	HUIS	*
4 *	.55805	B	-	-	-	-	*
24 *	.60395	A	LE	Z	LMC	A-O-NEN 5771	*
20 *	.61500	A	LE	-	LMC	2e O-NEN 5771	*
28 *	.71500	A	-	-	-	-	*
16 *	.72000	A	LE	C	LMC	C-O-NEN 5771	*
21 *	.73500	A	-	-	LMC	NEN 5771	*
1 *	.73780	A	-	-	-	-	*
13 *	.75250	A	LA	-	LUF	HUIS	*
12 *	.75900	A	Z	-	LUF	HUIS	*
25 *	.80500	A	LH	-	LMC	G-NEN 5771	*
18 *	.80500	A	LA	C	LMC	HUIS	*
19 *	.81500	A	LE	C	LMC	VPR C85-11	*
11 *	.87250	A	LE	-	LMC	A-NEN 5771	*
22 *	.91500	B	-	-	-	-	*
2 *	1.05000	C	-	-	-	-	*

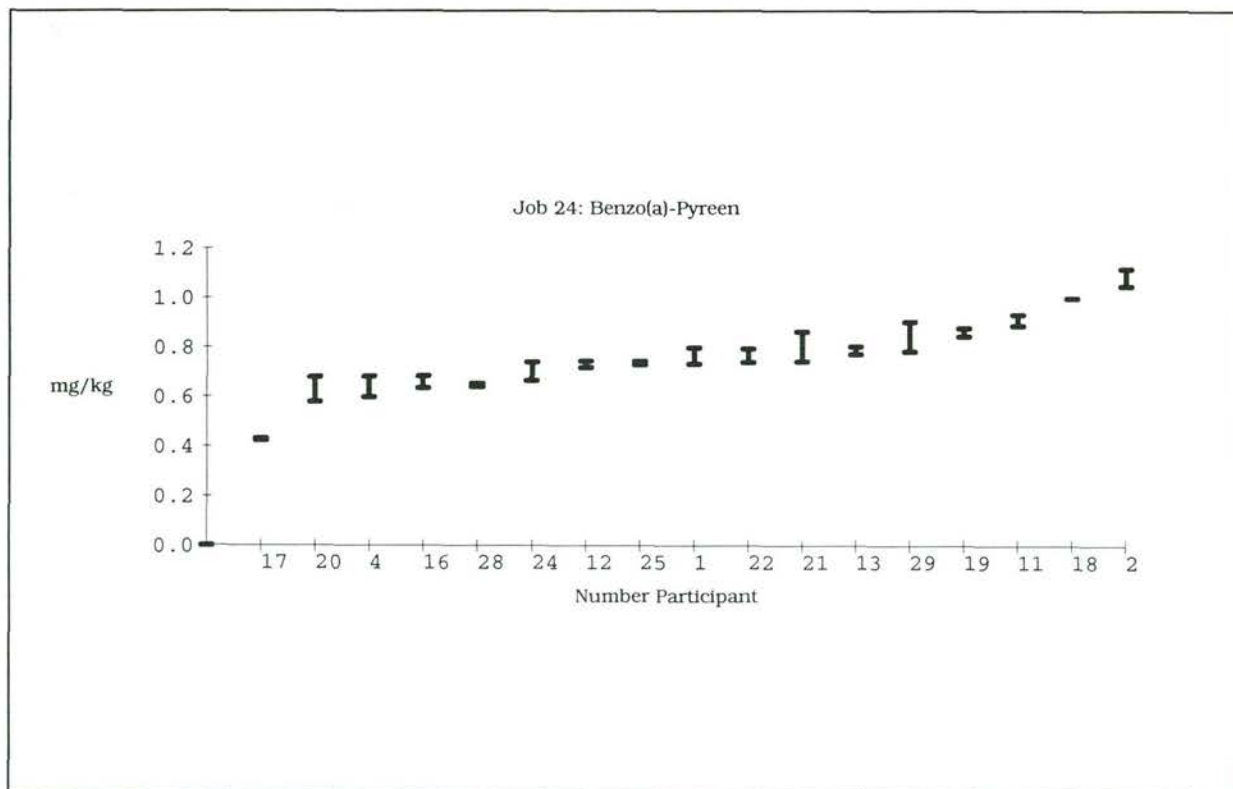
General Mean = .72669
Between lab standard deviation SL = .15083
Coefficient of variation = 21 %
Number of laboratories = 17

A: Number of laboratories with	Z	-scores between 0 and 1	; 12
B: Number of laboratories with	Z	-scores between 1 and 2	; 4
C: Number of laboratories with	Z	-scores between 2 and 3	; 1
D: Number of laboratories with	Z	-scores larger than 3	; 0

Job 24 : 99090, 99094

Benzo(a)-Pyreen, BaP in mg/kg Sediment (Lake)

Lab *	X1 *	X2 *	Average *	%Variance *	
1 *	.78040 *	.68570 *	.73305 *	9.1 % *	
2 *	1.00000 *	1.10000 *	1.05000 *	6.7 % *	
3 *	1.13000 *	1.16000 *	.00000 *	0 % *	- N.V.Manueel verwijderd
4 *	.53920 *	.65790 *	.59855 *	14.0 % *	
5 *			.00000 *	0 % *	- N.V.
6 *			.00000 *	0 % *	- N.V.
7 *			.00000 *	0 % *	- N.V.
8 *			.00000 *	0 % *	- N.V.
9 *			.00000 *	0 % *	- N.V.
10 *			.00000 *	0 % *	- N.V.
11 *	.92200 *	.85900 *	.89050 *	5.0 % *	
12 *	.69800 *	.73800 *	.71800 *	3.9 % *	
13 *	.79500 *	.75200 *	.77350 *	3.9 % *	
14 *			.00000 *	0 % *	- N.V.
15 *			.00000 *	0 % *	- N.V.
16 *	.67000 *	.60000 *	.63500 *	7.8 % *	
17 *	.42000 *	.43000 *	.42500 *	1.7 % *	
18 *	1.00000 *	1.00000 *	1.00000 *	.0 % *	
19 *	.87000 *	.82000 *	.84500 *	4.2 % *	
20 *	.65000 *	.51000 *	.58000 *	17.1 % *	
21 *	.83000 *	.66000 *	.74500 *	16.1 % *	
22 *	.70000 *	.78000 *	.74000 *	7.6 % *	
23 *			.00000 *	0 % *	- N.V.
24 *	.61370 *	.71800 *	.66585 *	11.1 % *	
25 *	.74000 *	.72000 *	.73000 *	1.9 % *	
26 *			.00000 *	0 % *	- N.V.
27 *			.00000 *	0 % *	- N.V.
28 *	.63300 *	.65100 *	.64200 *	2.0 % *	
29 *	.87000 *	.70000 *	.78500 *	15.3 % *	



Analysis

Kolmogorov-Smirnov test on assuming a Normal distribution. 1 % unreliability;

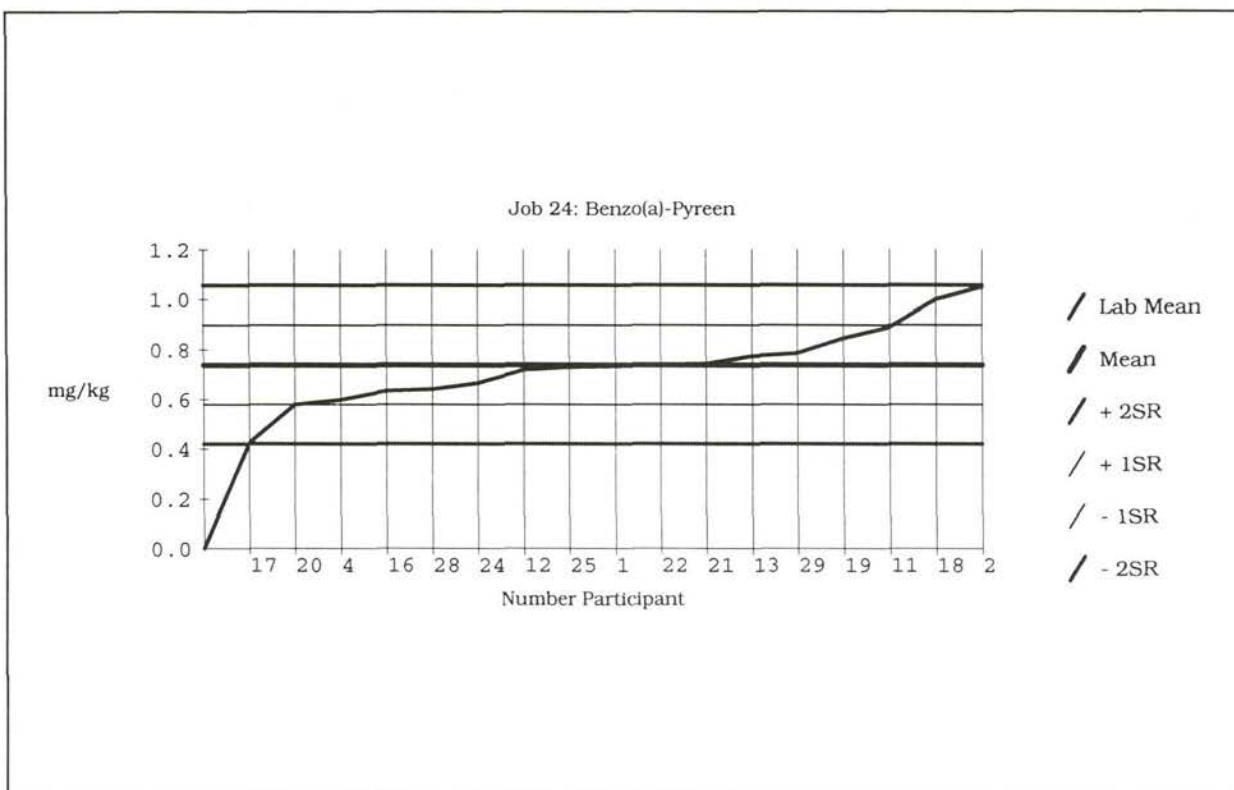
17 laboratory observations

Maximum absolute difference from Normal distribution: 0.14679. Critical value: 0.38100. KS-test passed

No outliers found

Summary

1. Eliminations due to
 - 1.1 Repeatability = 0
 - 1.2 Reproducibility = 0
 - 1.3 Manual rejected = 1
2. General Mean = .73861
3. Repeatability
 - 3.1 Standard deviation S_r = .06494
 - 3.2 Coefficient of variation = 9 %
4. Reproducibility
 - 4.1 Standard deviation S_R = .15926
 - 4.2 Coefficient of variation = 22 %



Job Classification

Lab *	Mean *	Clas *	Ext *	Clean *	Det *	Procedure *	
7 *	.00000	G	?	?	?	?	*
8 *	.00000	G	?	?	?	?	*
14 *	.00000	G	-	-	-	-	*
9 *	.00000	G	-	-	-	-	*
15 *	.00000	G	?	?	?	?	*
26 *	.00000	G	-	-	-	-	*
3 *	.00000	G	-	-	LMC	NEN 5731	*
10 *	.00000	G	-	-	-	-	*
27 *	.00000	G	-	-	-	-	*
5 *	.00000	G	-	-	-	-	*
23 *	.00000	G	-	-	-	-	*
6 *	.00000	G	-	-	-	-	*
17 *	.42500	C	LE	SC	LMC	HUIS	*
20 *	.58000	B	LE	-	LMC	2e O-NEN 5771	*
4 *	.59855	A	-	-	-	-	*
16 *	.63500	A	LE	C	LMC	C-O-NEN 5771	*
28 *	.64200	A	-	-	-	-	*
24 *	.66585	A	LE	Z	LMC	A-O-NEN 5771	*
12 *	.71800	A	Z	-	LUF	HUIS	*
25 *	.73000	A	LH	-	LMC	G-NEN 5771	*
1 *	.73305	A	-	-	-	-	*
22 *	.74000	A	-	-	-	-	*
21 *	.74500	A	-	-	LMC	NEN 5771	*
13 *	.77350	A	LA	-	LUF	HUIS	*
29 *	.78500	A	LD	-	LMC	HUIS	*
19 *	.84500	A	LE	C	LMC	VPR C85-11	*
11 *	.89050	A	LE	-	LMC	A-NEN 5771	*
18 *	1.00000	B	LA	C	LMC	HUIS	*
2 *	1.05000	C	-	-	-	-	*

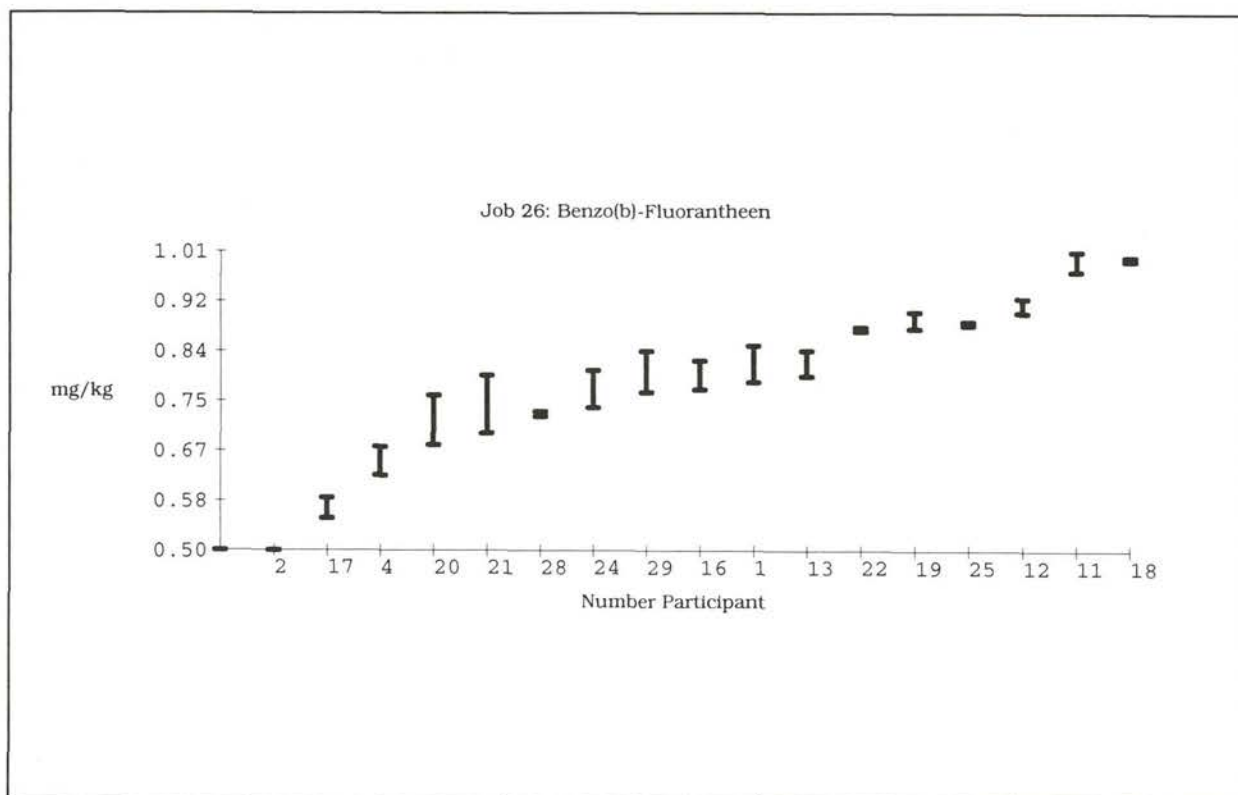
General Mean = .73861
Between lab standard deviation SL = .14542
Coefficient of variation = 20 %
Number of laboratories = 17

A: Number of laboratories with	Z	-scores between 0 and 1	; 13
B: Number of laboratories with	Z	-scores between 1 and 2	; 2
C: Number of laboratories with	Z	-scores between 2 and 3	; 2
D: Number of laboratories with	Z	-scores larger than 3	; 0

Job 26 : 99090, 99094

Benzo(b)-Fluorantheen, BbF in mg/kg Sediment (Lake)

Lab *	X1 *	X2 *	Average *	%Variance *	
1 *	.83190 *	.74340 *	.78765 *	7.9 % *	
2 *	.50000 *	.50000 *	.50000 *	.0 % *	
3 *	1.14000 *	1.15000 *	.00000 *	0 % *	- N.V.Manueel verwijderd
4 *	.59400 *	.66280 *	.62840 *	7.7 % *	
5 *			.00000 *	0 % *	- N.V.
6 *			.00000 *	0 % *	- N.V.
7 *			.00000 *	0 % *	- N.V.
8 *			.00000 *	0 % *	- N.V.
9 *			.00000 *	0 % *	- N.V.
10 *			.00000 *	0 % *	- N.V.
11 *	1.00100 *	.95300 *	.97700 *	3.5 % *	
12 *	.88900 *	.92400 *	.90650 *	2.7 % *	
13 *	.82900 *	.76700 *	.79800 *	5.5 % *	
14 *			.00000 *	0 % *	- N.V.
15 *			.00000 *	0 % *	- N.V.
16 *	.81000 *	.74000 *	.77500 *	6.4 % *	
17 *	.53000 *	.58000 *	.55500 *	6.4 % *	
18 *	.99000 *	1.00000 *	.99500 *	.7 % *	
19 *	.90000 *	.86000 *	.88000 *	3.2 % *	
20 *	.74000 *	.62000 *	.68000 *	12.5 % *	
21 *	.77000 *	.63000 *	.70000 *	14.1 % *	
22 *	.88000 *	.87000 *	.87500 *	.8 % *	
23 *			.00000 *	0 % *	- N.V.
24 *	.69900 *	.78870 *	.74385 *	8.5 % *	
25 *	.89000 *	.88000 *	.88500 *	.8 % *	
26 *			.00000 *	0 % *	- N.V.
27 *			.00000 *	0 % *	- N.V.
28 *	.72400 *	.73500 *	.72950 *	1.1 % *	
29 *	.82000 *	.72000 *	.77000 *	9.2 % *	



Analysis

Kolmogorov-Smirnov test on assuming a Normal distribution. 1 % unreliability;

17 laboratory observations

Maximum absolute difference from Normal distribution: 0.08350. Critical value: 0.38100. KS-test passed

No outliers found

Summary

1. Eliminations due to
 - 1.1 Repeatability = 0
 - 1.2 Reproducibility = 0
 - 1.3 Manual rejected = 1
2. General Mean = .77564
3. Repeatability
 - 3.1 Standard deviation $S_r = .04893$
 - 3.2 Coefficient of variation = 6 %
4. Reproducibility
 - 4.1 Standard deviation $S_R = .14201$
 - 4.2 Coefficient of variation = 18 %



Job Classification

Lab *	Mean *	Clas *	Ext *	Clean *	Det *	Procedure *	
7 *	.00000 *	G *	? *	? *	? *	? *	*
8 *	.00000 *	G *	? *	? *	? *	? *	*
14 *	.00000 *	G *	- *	- *	- *	- *	*
9 *	.00000 *	G *	- *	- *	- *	- *	*
15 *	.00000 *	G *	? *	? *	? *	? *	*
26 *	.00000 *	G *	- *	- *	- *	- *	*
3 *	.00000 *	G *	- *	- *	LMC *	NEN 5731	*
10 *	.00000 *	G *	- *	- *	- *	- *	*
27 *	.00000 *	G *	- *	- *	- *	- *	*
5 *	.00000 *	G *	- *	- *	- *	- *	*
23 *	.00000 *	G *	- *	- *	- *	- *	*
6 *	.00000 *	G *	- *	- *	- *	- *	*
2 *	.50000 *	C *	- *	- *	- *	- *	*
17 *	.55500 *	B *	LE *	SC *	LMC *	HUIS	*
4 *	.62840 *	B *	- *	- *	- *	- *	*
20 *	.68000 *	A *	LE *	- *	LMC *	2e O-NEN 5771	*
21 *	.70000 *	A *	- *	- *	LMC *	NEN 5771	*
28 *	.72950 *	A *	- *	- *	- *	- *	*
24 *	.74385 *	A *	LE *	Z *	LMC *	A-O-NEN 5771	*
29 *	.77000 *	A *	LD *	- *	LMC *	HUIS	*
16 *	.77500 *	A *	LE *	C *	LMC *	C-O-NEN 5771	*
1 *	.78765 *	A *	- *	- *	- *	- *	*
13 *	.79800 *	A *	LA *	- *	LUF *	HUIS	*
22 *	.87500 *	A *	- *	- *	- *	- *	*
19 *	.88000 *	A *	LE *	C *	LMC *	VPR C85-11	*
25 *	.88500 *	A *	LH *	- *	LMC *	G-NEN 5771	*
12 *	.90650 *	A *	Z *	- *	LUF *	HUIS	*
11 *	.97700 *	B *	LE *	- *	LMC *	A-NEN 5771	*
18 *	.99500 *	B *	LA *	C *	LMC *	HUIS	*

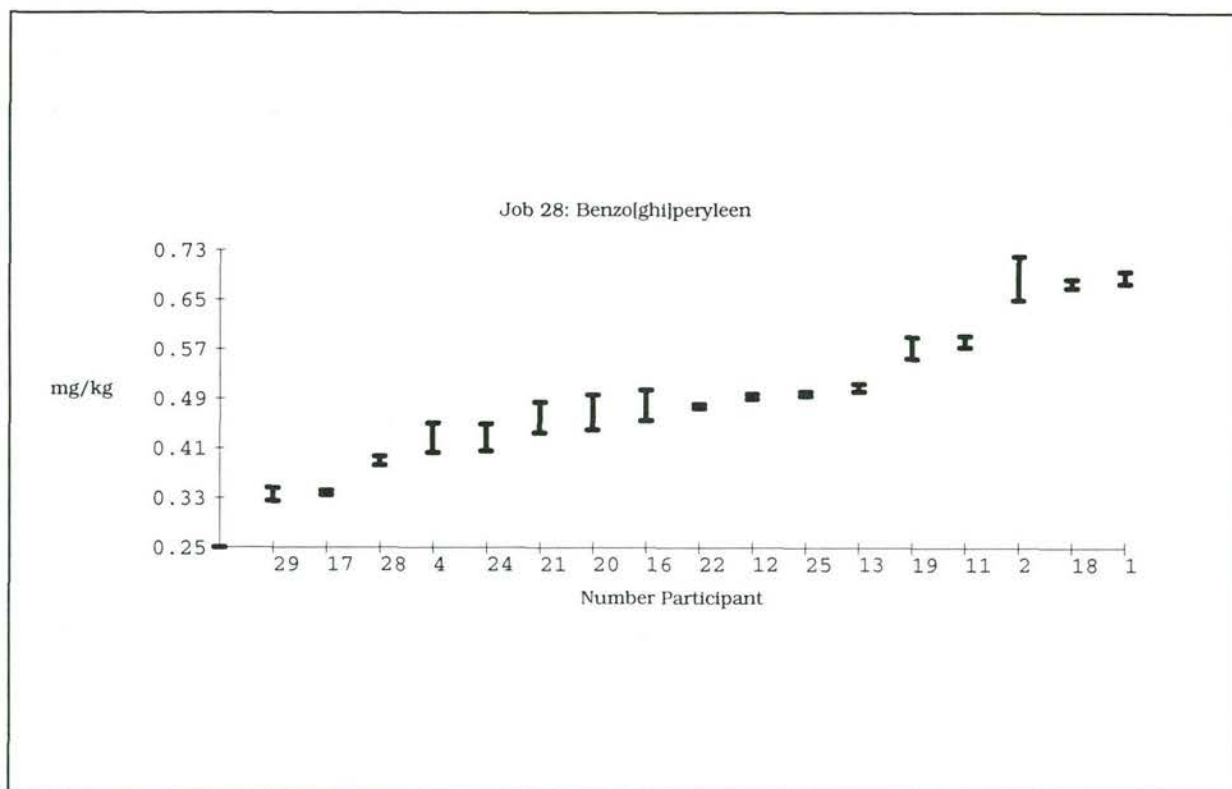
General Mean = .77564
Between lab standard deviation SL = .13332
Coefficient of variation = 17 %
Number of laboratories = 17

A: Number of laboratories with	Z	-scores between 0 and 1	; 12
B: Number of laboratories with	Z	-scores between 1 and 2	; 4
C: Number of laboratories with	Z	-scores between 2 and 3	; 1
D: Number of laboratories with	Z	-scores larger than 3	; 0

Job 28 : 99090, 99094

Benzo[ghi]perylene, BghiP in mg/kg Sediment (Lake)

Lab *	X1 *	X2 *	Average *	%Variance *	
1 *	.69060 *	.66380 *	.67720 *	2.8 % *	
2 *	.60000 *	.70000 *	.65000 *	10.9 % *	
3 *	.75000 *	.76000 *	.00000 *	0 % *	- N.V.Manueel verwijderd
4 *	.36920 *	.43690 *	.40305 *	11.9 % *	
5 *			.00000 *	0 % *	- N.V.
6 *			.00000 *	0 % *	- N.V.
7 *			.00000 *	0 % *	- N.V.
8 *			.00000 *	0 % *	- N.V.
9 *			.00000 *	0 % *	- N.V.
10 *			.00000 *	0 % *	- N.V.
11 *	.58700 *	.56100 *	.57400 *	3.2 % *	
12 *	.48400 *	.49600 *	.49000 *	1.7 % *	
13 *	.51100 *	.49400 *	.50250 *	2.4 % *	
14 *			.00000 *	0 % *	- N.V.
15 *			.00000 *	0 % *	- N.V.
16 *	.49000 *	.42000 *	.45500 *	10.9 % *	
17 *	.33000 *	.34000 *	.33500 *	2.1 % *	
18 *	.68000 *	.66000 *	.67000 *	2.1 % *	
19 *	.58000 *	.53000 *	.55500 *	6.4 % *	
20 *	.48000 *	.40000 *	.44000 *	12.9 % *	
21 *	.47000 *	.40000 *	.43500 *	11.4 % *	
22 *	.47000 *	.48000 *	.47500 *	1.5 % *	
23 *			.00000 *	0 % *	- N.V.
24 *	.37520 *	.43650 *	.40585 *	10.7 % *	
25 *	.50000 *	.49000 *	.49500 *	1.4 % *	
26 *			.00000 *	0 % *	- N.V.
27 *			.00000 *	0 % *	- N.V.
28 *	.37300 *	.39300 *	.38300 *	3.7 % *	
29 *	.34000 *	.31000 *	.32500 *	6.5 % *	



Analysis

Kolmogorov-Smirnov test on assuming a Normal distribution. 1 % unreliability;

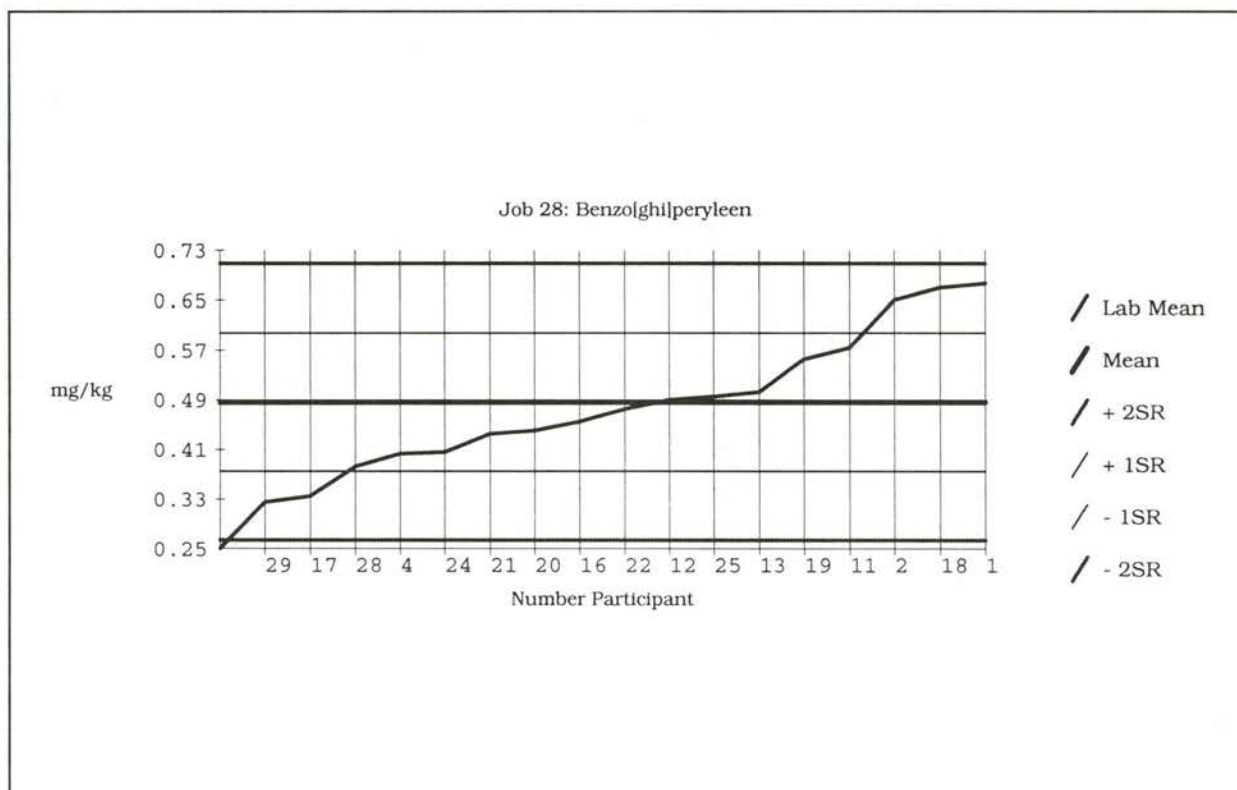
17 laboratory observations

Maximum absolute difference from Normal distribution: 0.14626. Critical value: 0.38100. KS-test passed

No outliers found

Summary

1. Eliminations due to
 - 1.1 Repeatability = 0
 - 1.2 Reproducibility = 0
 - 1.3 Manual rejected = 1
2. General Mean = .48651
3. Repeatability
 - 3.1 Standard deviation $S_r = .03467$
 - 3.2 Coefficient of variation = 7 %
4. Reproducibility
 - 4.1 Standard deviation $S_R = .11131$
 - 4.2 Coefficient of variation = 23 %



Job Classification

Lab *	Mean *	Clas *	Ext *	Clean *	Det *	Procedure *	
7 *	.00000 *	G *	? *	? *	? *	? *	*
8 *	.00000 *	G *	? *	? *	? *	? *	*
14 *	.00000 *	G *	- *	- *	- *	- *	*
9 *	.00000 *	G *	- *	- *	- *	- *	*
15 *	.00000 *	G *	? *	? *	? *	? *	*
26 *	.00000 *	G *	- *	- *	- *	- *	*
3 *	.00000 *	G *	- *	- *	LMC *	NEN 5731	*
10 *	.00000 *	G *	- *	- *	- *	- *	*
27 *	.00000 *	G *	- *	- *	- *	- *	*
5 *	.00000 *	G *	- *	- *	- *	- *	*
23 *	.00000 *	G *	- *	- *	- *	- *	*
6 *	.00000 *	G *	- *	- *	- *	- *	*
29 *	.32500 *	B *	LD *	- *	LMC *	HUIS	*
17 *	.33500 *	B *	LE *	SC *	LMC *	HUIS	*
28 *	.38300 *	A *	- *	- *	- *	- *	*
4 *	.40305 *	A *	- *	- *	- *	- *	*
24 *	.40585 *	A *	LE *	Z *	LMC *	A-O-NEN 5771	*
21 *	.43500 *	A *	- *	- *	LMC *	NEN 5771	*
20 *	.44000 *	A *	LE *	- *	LMC *	2e O-NEN 5771	*
16 *	.45500 *	A *	LE *	C *	LMC *	C-O-NEN 5771	*
22 *	.47500 *	A *	- *	- *	- *	- *	*
12 *	.49000 *	A *	Z *	- *	LUF *	HUIS	*
25 *	.49500 *	A *	LH *	- *	LMC *	G-NEN 5771	*
13 *	.50250 *	A *	LA *	- *	LUF *	HUIS	*
19 *	.55500 *	A *	LE *	C *	LMC *	VPR C85-11	*
11 *	.57400 *	A *	LE *	- *	LMC *	A-NEN 5771	*
2 *	.65000 *	B *	- *	- *	- *	- *	*
18 *	.67000 *	B *	LA *	C *	LMC *	HUIS	*
1 *	.67720 *	B *	- *	- *	- *	- *	*

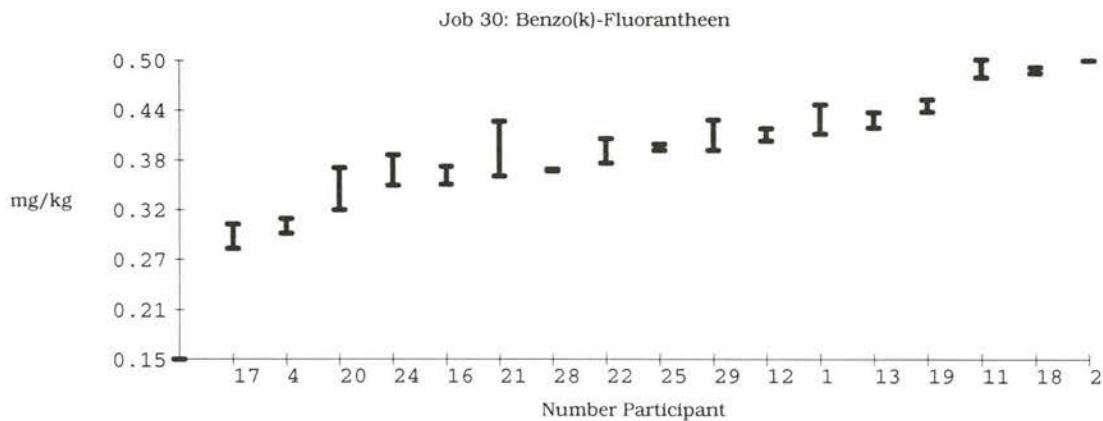
General Mean = .48651
Between lab standard deviation SL = .10577
Coefficient of variation = 22 %
Number of laboratories = 17

A: Number of laboratories with	Z	-scores between 0 and 1	; 12
B: Number of laboratories with	Z	-scores between 1 and 2	; 5
C: Number of laboratories with	Z	-scores between 2 and 3	; 0
D: Number of laboratories with	Z	-scores larger than 3	; 0

Job 30 : 99090, 99094

Benzo(k)-Fluorantheen, BkF in mg/kg Sediment (Lake)

Lab *	X1 *	X2 *	Average *	%Variance *	
1 *	.43820 *	.38960 *	.41390 *	8.3 % *	
2 *	.50000 *	.50000 *	.50000 *	.0 % *	
3 *	.57000 *	.57000 *	.00000 *	0 % *	- N.V.Manueel verwijderd
4 *	.28500 *	.30970 *	.29735 *	5.9 % *	
5 *			.00000 *	0 % *	- N.V.
6 *			.00000 *	0 % *	- N.V.
7 *			.00000 *	0 % *	- N.V.
8 *			.00000 *	0 % *	- N.V.
9 *			.00000 *	0 % *	- N.V.
10 *			.00000 *	0 % *	- N.V.
11 *	.49500 *	.46500 *	.48000 *	4.4 % *	
12 *	.39500 *	.41600 *	.40550 *	3.7 % *	
13 *	.43400 *	.40800 *	.42100 *	4.4 % *	
14 *			.00000 *	0 % *	- N.V.
15 *			.00000 *	0 % *	- N.V.
16 *	.37000 *	.34000 *	.35500 *	6.0 % *	
17 *	.26000 *	.30000 *	.28000 *	10.1 % *	
18 *	.48000 *	.49000 *	.48500 *	1.5 % *	
19 *	.45000 *	.43000 *	.44000 *	3.2 % *	
20 *	.36000 *	.29000 *	.32500 *	15.2 % *	
21 *	.41000 *	.32000 *	.36500 *	17.4 % *	
22 *	.36000 *	.40000 *	.38000 *	7.4 % *	
23 *			.00000 *	0 % *	- N.V.
24 *	.32870 *	.37920 *	.35395 *	10.1 % *	
25 *	.40000 *	.39000 *	.39500 *	1.8 % *	
26 *			.00000 *	0 % *	- N.V.
27 *			.00000 *	0 % *	- N.V.
28 *	.37000 *	.37200 *	.37100 *	.4 % *	
29 *	.42000 *	.37000 *	.39500 *	9.0 % *	



Analysis

Kolmogorov-Smirnov test on assuming a Normal distribution. 1 % unreliability;

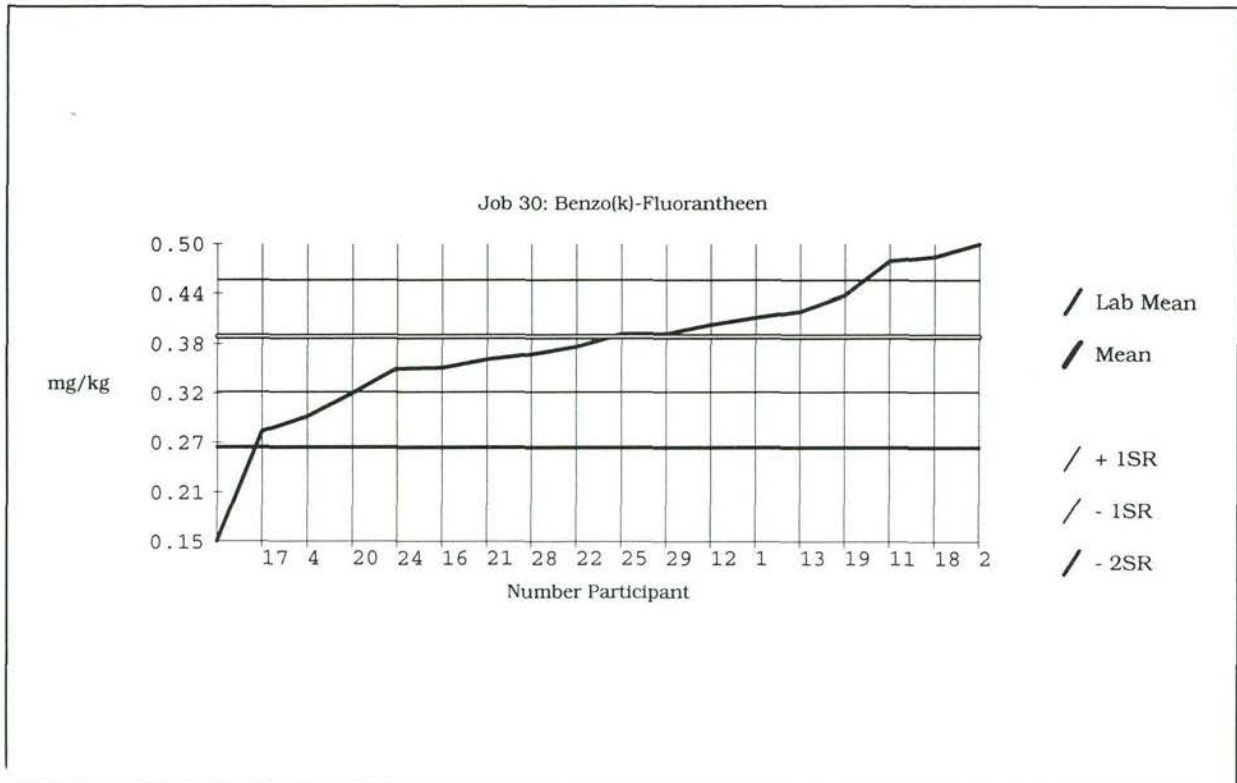
17 laboratory observations

Maximum absolute difference from Normal distribution: 0.08388. Critical value: 0.38100. KS-test passed

No outliers found

Summary

1. Eliminations due to
 - 1.1 Repeatability = 0
 - 1.2 Reproducibility = 0
 - 1.3 Manual rejected = 1
2. General Mean = .39192
3. Repeatability
 - 3.1 Standard deviation $S_r = .02857$
 - 3.2 Coefficient of variation = 7 %
4. Reproducibility
 - 4.1 Standard deviation $S_R = .06545$
 - 4.2 Coefficient of variation = 17 %



Job Classification

Lab *	Mean *	Clas *	Ext *	Clean *	Det *	Procedure *	
7 *	.00000 *	G *	? *	? *	? *	? *	*
8 *	.00000 *	G *	? *	? *	? *	? *	*
14 *	.00000 *	G *	- *	- *	- *	- *	*
9 *	.00000 *	G *	- *	- *	- *	- *	*
15 *	.00000 *	G *	? *	? *	? *	? *	*
26 *	.00000 *	G *	- *	- *	- *	- *	*
3 *	.00000 *	G *	- *	- *	LMC *	NEN 5731	*
10 *	.00000 *	G *	- *	- *	- *	- *	*
27 *	.00000 *	G *	- *	- *	- *	- *	*
5 *	.00000 *	G *	- *	- *	- *	- *	*
23 *	.00000 *	G *	- *	- *	- *	- *	*
6 *	.00000 *	G *	- *	- *	- *	- *	*
17 *	.28000 *	B *	LE *	SC *	LMC *	HUIS	*
4 *	.29735 *	B *	- *	- *	- *	- *	*
20 *	.32500 *	B *	LE *	- *	LMC *	2e O-NEN 5771	*
24 *	.35395 *	A *	LE *	Z *	LMC *	A-O-NEN 5771	*
16 *	.35500 *	A *	LE *	C *	LMC *	C-O-NEN 5771	*
21 *	.36500 *	A *	- *	- *	LMC *	NEN 5771	*
28 *	.37100 *	A *	- *	- *	- *	- *	*
22 *	.38000 *	A *	- *	- *	- *	- *	*
25 *	.39500 *	A *	LH *	- *	LMC *	G-NEN 5771	*
29 *	.39500 *	A *	LD *	- *	LMC *	HUIS	*
12 *	.40550 *	A *	Z *	- *	LUF *	HUIS	*
1 *	.41390 *	A *	- *	- *	- *	- *	*
13 *	.42100 *	A *	LA *	- *	LUF *	HUIS	*
19 *	.44000 *	A *	LE *	C *	LMC *	VPR C85-11	*
11 *	.48000 *	B *	LE *	- *	LMC *	A-NEN 5771	*
18 *	.48500 *	B *	LA *	C *	LMC *	HUIS	*
2 *	.50000 *	B *	- *	- *	- *	- *	*

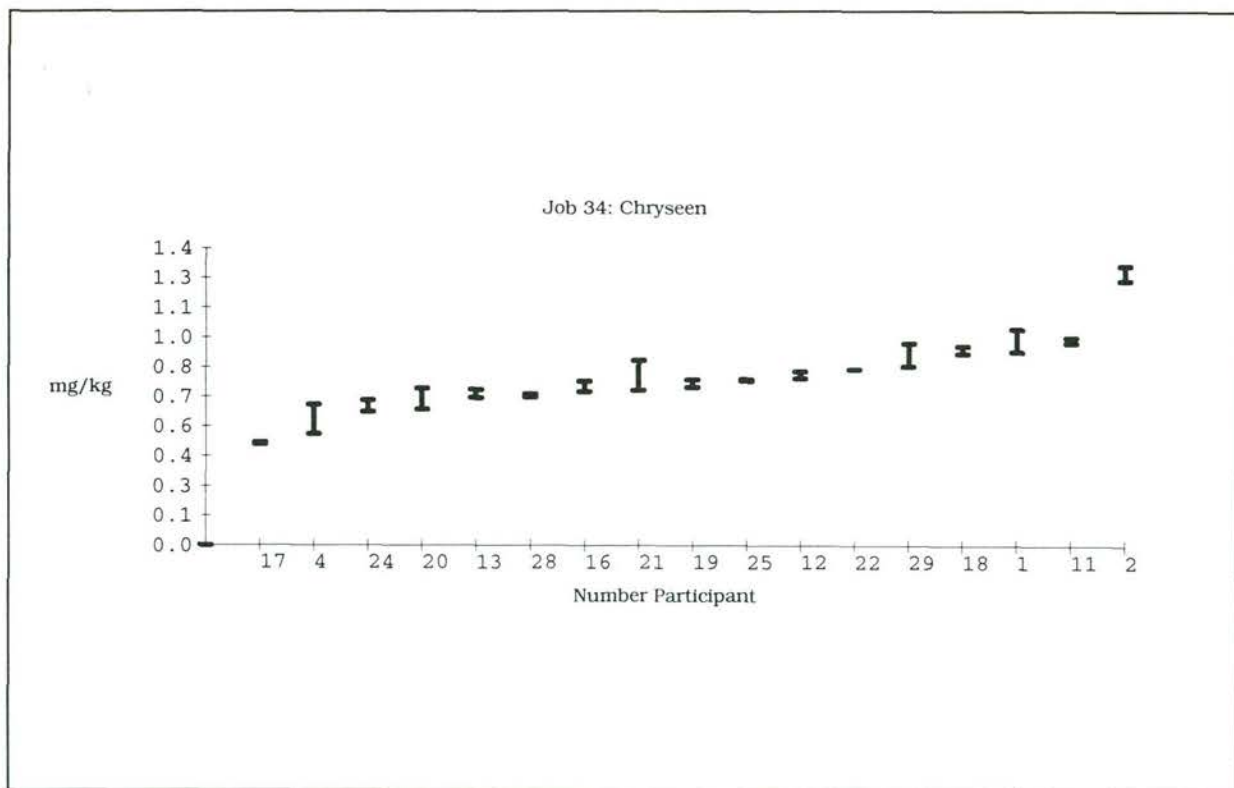
General Mean = .39192
Between lab standard deviation SL = .05888
Coefficient of variation = 15 %
Number of laboratories = 17

A: Number of laboratories with	Z	-scores between 0 and 1	; 11
B: Number of laboratories with	Z	-scores between 1 and 2	; 6
C: Number of laboratories with	Z	-scores between 2 and 3	; 0
D: Number of laboratories with	Z	-scores larger than 3	; 0

Job 34 : 99090, 99094

Chryseen, Chr in mg/kg Sediment (Lake)

Lab *	X1 *	X2 *	Average *	%Variance *	
1 *	.98820 *	.83830 *	.91325 *	11.6 % *	
2 *	1.20000 *	1.30000 *	1.25000 *	5.7 % *	
3 *	1.45000 *	1.43000 *	.00000 *	0 % *	- N.V.Manueel verwijderd
4 *	.42620 *	.62120 *	.52370 *	26.3 % *	
5 *			.00000 *	0 % *	- N.V.
6 *			.00000 *	0 % *	- N.V.
7 *			.00000 *	0 % *	- N.V.
8 *			.00000 *	0 % *	- N.V.
9 *			.00000 *	0 % *	- N.V.
10 *			.00000 *	0 % *	- N.V.
11 *	.97400 *	.93800 *	.95600 *	2.7 % *	
12 *	.76400 *	.81000 *	.78700 *	4.1 % *	
13 *	.72100 *	.66600 *	.69350 *	5.6 % *	
14 *			.00000 *	0 % *	- N.V.
15 *			.00000 *	0 % *	- N.V.
16 *	.76000 *	.69000 *	.72500 *	6.8 % *	
17 *	.47000 *	.48000 *	.47500 *	1.5 % *	
18 *	.88000 *	.93000 *	.90500 *	3.9 % *	
19 *	.77000 *	.72000 *	.74500 *	4.7 % *	
20 *	.71000 *	.57000 *	.64000 *	15.5 % *	
21 *	.83000 *	.63000 *	.73000 *	19.4 % *	
22 *	.83000 *	.83000 *	.83000 *	.0 % *	
23 *			.00000 *	0 % *	- N.V.
24 *	.58980 *	.66560 *	.62770 *	8.5 % *	
25 *	.77000 *	.78000 *	.77500 *	.9 % *	
26 *			.00000 *	0 % *	- N.V.
27 *			.00000 *	0 % *	- N.V.
28 *	.68600 *	.70700 *	.69650 *	2.1 % *	
29 *	.92000 *	.77000 *	.84500 *	12.6 % *	



Analysis

Kolmogorov-Smirnov test on assuming a Normal distribution. 1 % unreliability;

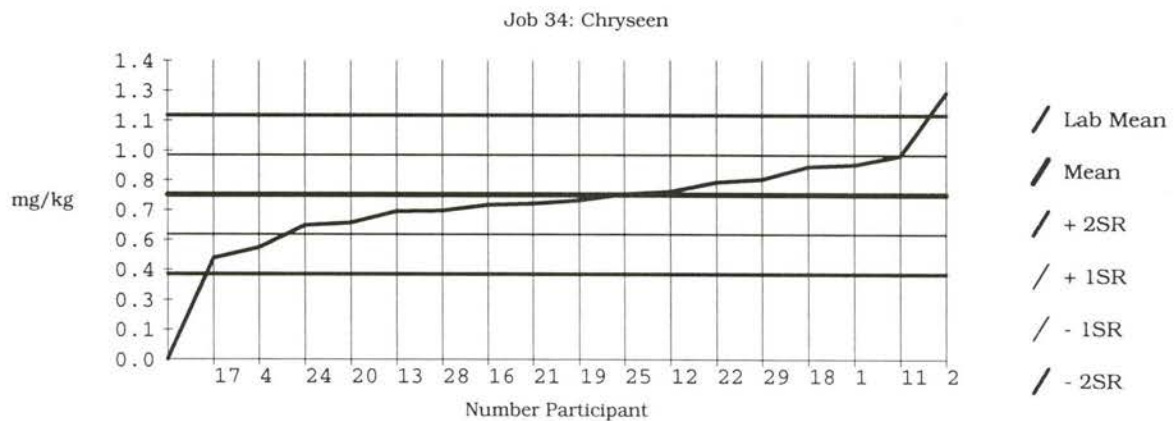
17 laboratory observations

Maximum absolute difference from Normal distribution: 0.11120. Critical value: 0.08100. KS-test passed

No outliers found

Summary

1. Eliminations due to
 - 1.1 Repeatability = 0
 - 1.2 Reproducibility = 0
 - 1.3 Manual rejected = 1
2. General Mean = .77163
3. Repeatability
 - 3.1 Standard deviation $S_r = .07181$
 - 3.2 Coefficient of variation = 9 %
4. Reproducibility
 - 4.1 Standard deviation $S_R = .18622$
 - 4.2 Coefficient of variation = 24 %



Job Classification

Lab	Mean	Clas	Ext	Clean	Det	Procedure
7	.00000	G	?	?	?	?
8	.00000	G	?	?	?	?
14	.00000	G	-	-	-	-
9	.00000	G	-	-	-	-
15	.00000	G	?	?	?	?
26	.00000	G	-	-	-	-
3	.00000	G	-	-	LMC	NEN 5731
10	.00000	G	-	-	-	-
27	.00000	G	-	-	-	-
5	.00000	G	-	-	-	-
23	.00000	G	-	-	-	-
6	.00000	G	-	-	-	-
17	.47500	B	LE	SC	LMC	HUIS
4	.52370	B	-	-	-	-
24	.62770	A	LE	Z	LMC	A-O-NEN 5771
20	.64000	A	LE	-	LMC	2e O-NEN 5771
13	.69350	A	LA	-	LUF	HUIS
28	.69650	A	-	-	-	-
16	.72500	A	LE	C	LMC	C-O-NEN 5771
21	.73000	A	-	-	LMC	NEN 5771
19	.74500	A	LE	C	LMC	VPR C85-11
25	.77500	A	LH	-	LMC	G-NEN 5771
12	.78700	A	Z	-	LUF	HUIS
22	.83000	A	-	-	-	-
29	.84500	A	LD	-	LMC	HUIS
18	.90500	A	LA	C	LMC	HUIS
1	.91325	A	-	-	-	-
11	.95600	B	LE	-	LMC	A-NEN 5771
2	1.25000	C	-	-	-	-

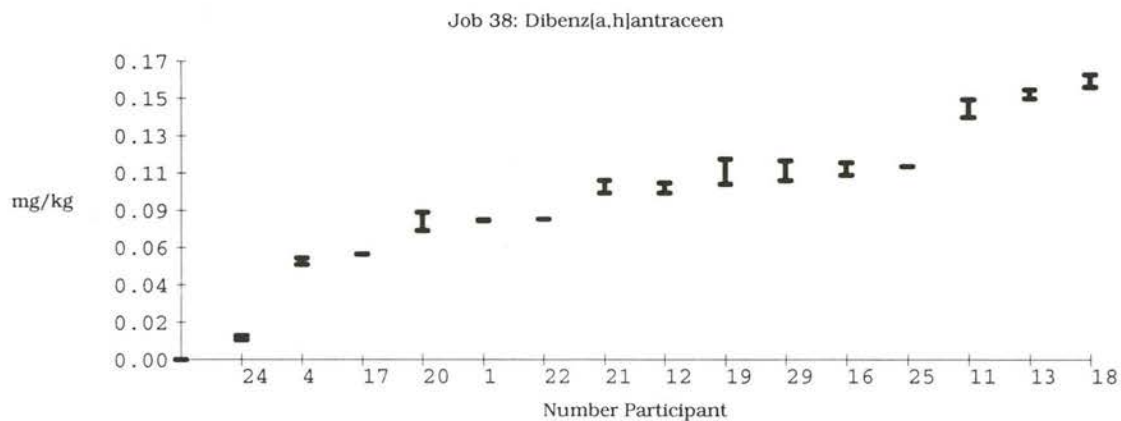
General Mean = .77163
Between lab standard deviation SL = .17182
Coefficient of variation = 22 %
Number of laboratories = 17

A: Number of laboratories with Z-scores between 0 and 1 ; 13
B: Number of laboratories with Z-scores between 1 and 2 ; 3
C: Number of laboratories with Z-scores between 2 and 3 ; 1
D: Number of laboratories with Z-scores larger than 3 ; 0

Job 38 : 99090, 99094

Dibenz[a,h]antraceen, DBahA in mg/kg Sediment (Lake)

Lab *	X1 *	X2 *	Average *	%Variance *	
1 *	.07955 *	.07899 *	.07927 *	.5 % *	
2 *			.00000 *	0 % *	- N.V.
3 *	.17000 *	.18000 *	.00000 *	0 % *	- N.V. Manueel verwijderd
4 *	.05200 *	.05690 *	.05445 *	6.4 % *	
5 *			.00000 *	0 % *	- N.V.
6 *			.00000 *	0 % *	- N.V.
7 *			.00000 *	0 % *	- N.V.
8 *			.00000 *	0 % *	- N.V.
9 *			.00000 *	0 % *	- N.V.
10 *			.00000 *	0 % *	- N.V.
11 *	.14500 *	.13100 *	.13800 *	7.2 % *	
12 *	.09100 *	.09900 *	.09500 *	6.0 % *	
13 *	.15200 *	.14500 *	.14850 *	3.3 % *	
14 *			.00000 *	0 % *	- N.V.
15 *			.00000 *	0 % *	- N.V.
16 *	.11000 *	.10000 *	.10500 *	6.7 % *	
17 *	.06000 *	.06000 *	.06000 *	.0 % *	
18 *	.15000 *	.16000 *	.15500 *	4.6 % *	
19 *	.11000 *	.09000 *	.10000 *	14.1 % *	
20 *	.08100 *	.06600 *	.07350 *	14.4 % *	
21 *	.10000 *	.09000 *	.09500 *	7.4 % *	
22 *	.08000 *	.08000 *	.08000 *	.0 % *	
23 *			.00000 *	0 % *	- N.V.
24 *	.00960 *	.01310 *	.01135 *	21.8 % *	
25 *	.11000 *	.11000 *	.11000 *	.0 % *	
26 *			.00000 *	0 % *	- N.V.
27 *			.00000 *	0 % *	- N.V.
28 *	.10000 *	.10000 *	.10000 *	0 % *	< N.V.
29 *	.09400 *	.11000 *	.10200 *	11.1 % *	



Analysis

Kolmogorov-Smirnov test on assuming a Normal distribution. 1 % unreliability;

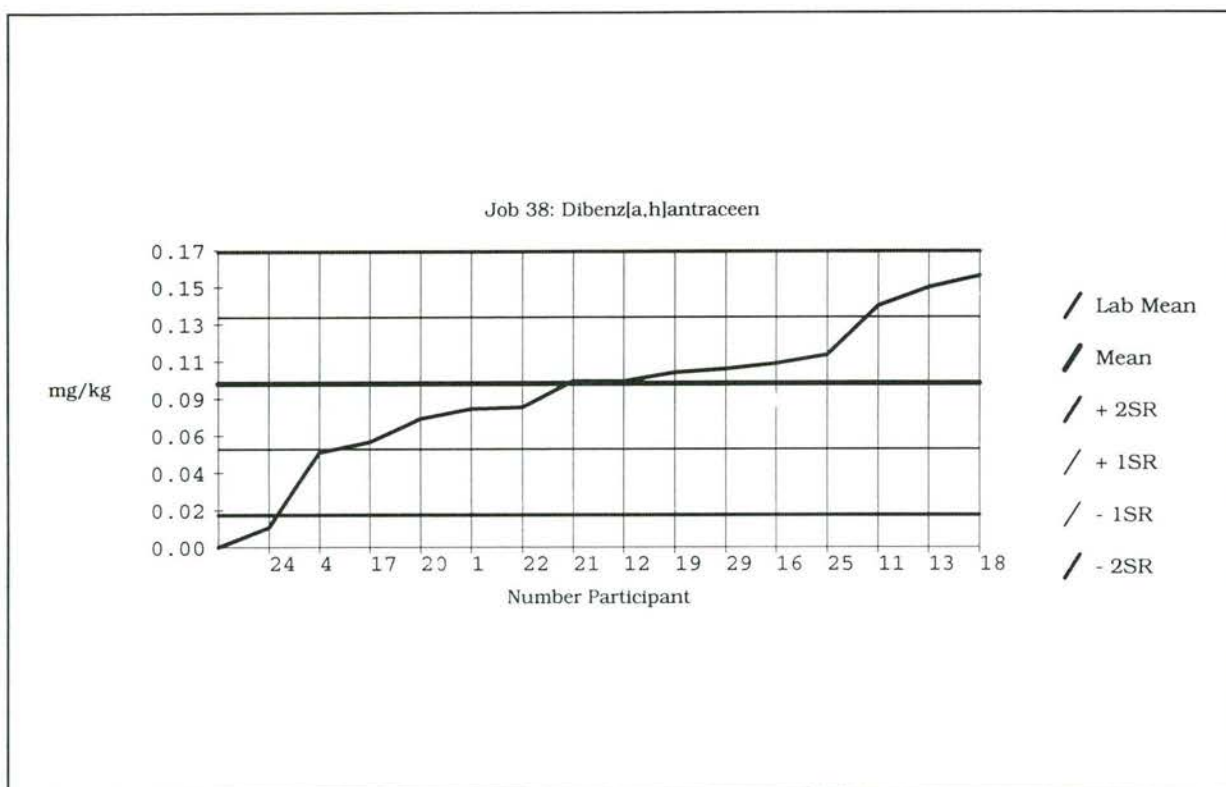
15 laboratory observations

Maximum absolute difference from Normal distribution: 0.13359. Critical value: 0.40400. KS-test passed

No outliers found

Summary

1. Eliminations due to
 - 1.1 Repeatability = 0
 - 1.2 Reproducibility = 0
 - 1.3 Manual rejected = 1
2. General Mean = .09380
3. Repeatability
 - 3.1 Standard deviation $S_r = .00713$
 - 3.2 Coefficient of variation = 8 %
4. Reproducibility
 - 4.1 Standard deviation $S_R = .03765$
 - 4.2 Coefficient of variation = 40 %



Job Classification

Lab *	Mean *	Clas *	Ext *	Clean *	Det *	Procedure *	
7 *	.00000	G	* ?	* ?	* ?	* ?	*
8 *	.00000	G	* ?	* ?	* ?	* ?	*
14 *	.00000	G	* -	* -	* -	* -	*
2 *	.00000	G	* -	* -	* -	* -	*
9 *	.00000	G	* -	* -	* -	* -	*
15 *	.00000	G	* ?	* ?	* ?	* ?	*
26 *	.00000	G	* -	* -	* -	* -	*
3 *	.00000	G	* -	* -	* LMC	* NEN 5731	*
10 *	.00000	G	* -	* -	* -	* -	*
27 *	.00000	G	* -	* -	* -	* -	*
28 *	.00000	G	* -	* -	* -	* -	*
5 *	.00000	G	* -	* -	* -	* -	*
23 *	.00000	G	* -	* -	* -	* -	*
6 *	.00000	G	* -	* -	* -	* -	*
24 *	.01135	C	* LE	* Z	* LMC	* A-O-NEN 5771	*
4 *	.05445	B	* -	* -	* -	* -	*
17 *	.06000	A	* LE	* SC	* LMC	* HUIS	*
20 *	.07350	A	* LE	* -	* LMC	* 2e O-NEN 5771	*
1 *	.07927	A	* -	* -	* -	* -	*
22 *	.08000	A	* -	* -	* -	* -	*
21 *	.09500	A	* -	* -	* LMC	* NEN 5771	*
12 *	.09500	A	* Z	* -	* LUF	* HUIS	*
19 *	.10000	A	* LE	* C	* LMC	* VPR C85-11	*
29 *	.10200	A	* LD	* -	* LMC	* HUIS	*
16 *	.10500	A	* LE	* C	* LMC	* C-O-NEN 5771	*
25 *	.11000	A	* LH	* -	* LMC	* G-NEN 5771	*
11 *	.13800	B	* LE	* -	* LMC	* A-NEN 5771	*
13 *	.14850	B	* LA	* -	* LUF	* HUIS	*
18 *	.15500	B	* LA	* C	* LMC	* HUIS	*

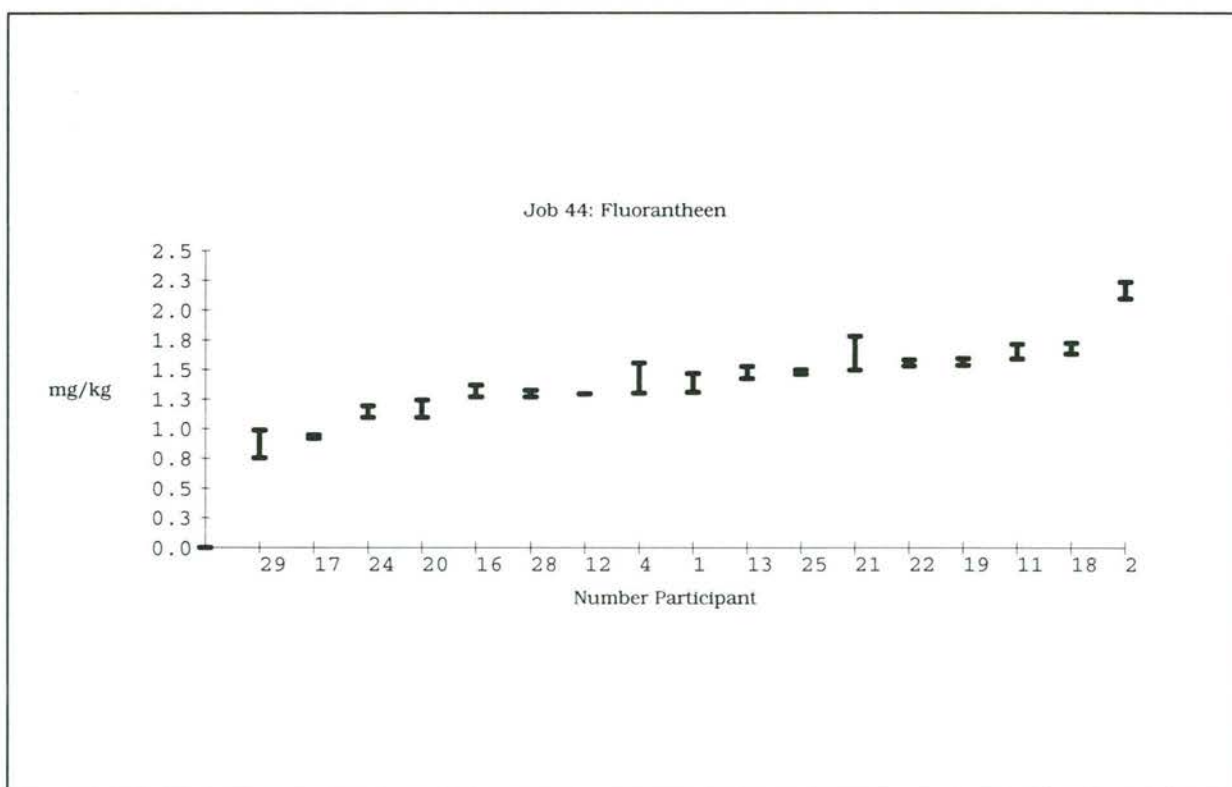
General Mean = .09380
Between lab standard deviation SL = .03697
Coefficient of variation = 39 %
Number of laboratories = 15

A: Number of laboratories with	Z	-scores between 0 and 1	; 10
B: Number of laboratories with	Z	-scores between 1 and 2	; 4
C: Number of laboratories with	Z	-scores between 2 and 3	; 1
D: Number of laboratories with	Z	-scores larger than 3	; 0

Job 44 : 99090, 99094

Fluorantheen, Flu in mg/kg Sediment (Lake)

Lab *	X1 *	X2 *	Average *	%Variance *	
1 *	1.42400	1.19600	1.31000	12.3 %	*
2 *	2.00000	2.20000	2.10000	6.7 %	*
3 *	3.15000	3.10000	.00000	0 %	* - N.V.Manueel verwijderd
4 *	1.12200	1.48400	1.30300	19.6 %	*
5 *			.00000	0 %	* - N.V.
6 *			.00000	0 %	* - N.V.
7 *			.00000	0 %	* - N.V.
8 *			.00000	0 %	* - N.V.
9 *			.00000	0 %	* - N.V.
10 *			.00000	0 %	* - N.V.
11 *	1.68000	1.50900	1.59450	7.6 %	*
12 *	1.29200	1.29800	1.29500	.3 %	*
13 *	1.50100	1.35600	1.42850	7.2 %	*
14 *			.00000	0 %	* - N.V.
15 *			.00000	0 %	* - N.V.
16 *	1.34000	1.20000	1.27000	7.8 %	*
17 *	.90000	.94000	.92000	3.1 %	*
18 *	1.57000	1.70000	1.63500	5.6 %	*
19 *	1.50000	1.58000	1.54000	3.7 %	*
20 *	1.20000	.99000	1.09500	13.6 %	*
21 *	1.70000	1.30000	1.50000	18.9 %	*
22 *	1.50000	1.57000	1.53500	3.2 %	*
23 *			.00000	0 %	* - N.V.
24 *	1.02500	1.16400	1.09450	9.0 %	*
25 *	1.44000	1.49000	1.46500	2.4 %	*
26 *			.00000	0 %	* - N.V.
27 *			.00000	0 %	* - N.V.
28 *	1.23000	1.31000	1.27000	4.5 %	*
29 *	.92000	.59000	.75500	30.9 %	*



Analysis

Kolmogorov-Smirnov test on assuming a Normal distribution. 1 % unreliability;

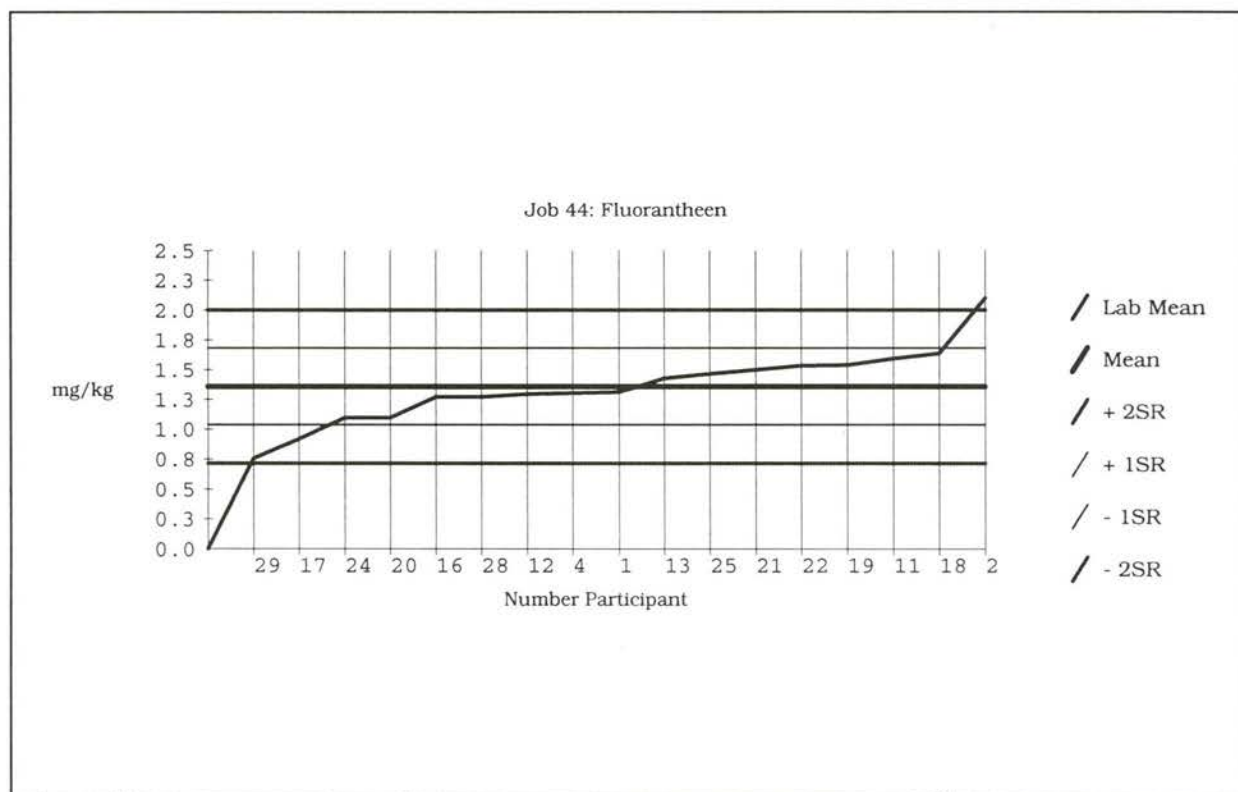
17 laboratory observations

Maximum absolute difference from Normal distribution: 0.12524. Critical value: 0.38100. KS-test passed

No outliers found

Summary

1. Eliminations due to
 - 1.1 Repeatability = 0
 - 1.2 Reproducibility = 0
 - 1.3 Manual rejected = 1
2. General Mean = 1.35944
3. Repeatability
 - 3.1 Standard deviation $S_r = .13974$
 - 3.2 Coefficient of variation = 10 %
4. Reproducibility
 - 4.1 Standard deviation $S_R = .32203$
 - 4.2 Coefficient of variation = 24 %



Job Classification

Lab	Mean	Clas	Ext	Clean	Det	Procedure	
7	.00000	G	?	?	?	?	*
8	.00000	G	?	?	?	?	*
14	.00000	G	-	-	-	-	*
9	.00000	G	-	-	-	-	*
15	.00000	G	?	?	?	?	*
26	.00000	G	-	-	-	-	*
3	.00000	G	-	-	LMC	NEN 5731	*
10	.00000	G	-	-	-	-	*
27	.00000	G	-	-	-	-	*
5	.00000	G	-	-	-	-	*
23	.00000	G	-	-	-	-	*
6	.00000	G	-	-	-	-	*
29	.75500	B	LD	-	LMC	HUIS	*
17	.92000	B	LE	SC	LMC	HUIS	*
24	1.09450	A	LE	Z	LMC	A-O-NEN 5771	*
20	1.09500	A	LE	-	LMC	2e O-NEN 5771	*
16	1.27000	A	LE	C	LMC	C-O-NEN 5771	*
28	1.27000	A	-	-	-	-	*
12	1.29500	A	Z	-	LUF	HUIS	*
4	1.30300	A	-	-	-	-	*
1	1.31000	A	-	-	-	-	*
13	1.42850	A	LA	-	LUF	HUIS	*
25	1.46500	A	LH	-	LMC	G-NEN 5771	*
21	1.50000	A	-	-	LMC	NEN 5771	*
22	1.53500	A	-	-	-	-	*
19	1.54000	A	LE	C	LMC	VPR C85-11	*
11	1.59450	A	LE	-	LMC	A-NEN 5771	*
18	1.63500	A	LA	C	LMC	HUIS	*
2	2.10000	C	-	-	-	-	*

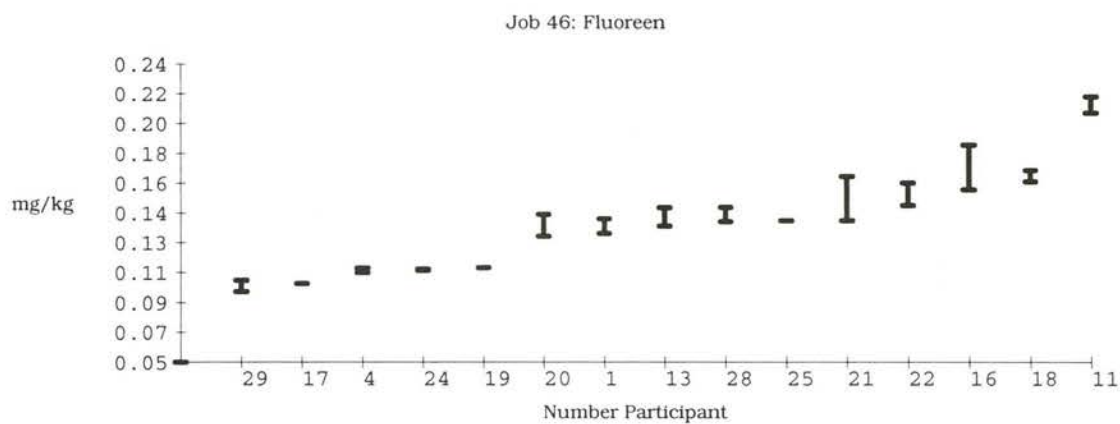
General Mean = 1.35944
Between lab standard deviation SL = .29013
Coefficient of variation = 21 %
Number of laboratories = 17

A: Number of laboratories with Z-scores between 0 and 1 ; 14
B: Number of laboratories with Z-scores between 1 and 2 ; 2
C: Number of laboratories with Z-scores between 2 and 3 ; 1
D: Number of laboratories with Z-scores larger than 3 ; 0

Job 46 : 99090, 99094

Fluoreen, Flur in mg/kg Sediment (Lake)

Lab *	X1 *	X2 *	Average *	%Variance *	
1 *	.13850 *	.12550 *	.13200 *	7.0 % *	
2 *			.00000 *	0 % *	- N.V.
3 *	.75000 *	.90000 *	.00000 *	0 % *	- N.V. Manueel verwijderd
4 *	.10910 *	.10500 *	.10705 *	2.7 % *	
5 *			.00000 *	0 % *	- N.V.
6 *			.00000 *	0 % *	- N.V.
7 *			.00000 *	0 % *	- N.V.
8 *			.00000 *	0 % *	- N.V.
9 *			.00000 *	0 % *	- N.V.
10 *			.00000 *	0 % *	- N.V.
11 *	.21600 *	.20100 *	.20850 *	5.1 % *	
12 *			.00000 *	0 % *	- N.V.
13 *	.14500 *	.12800 *	.13650 *	8.8 % *	
14 *			.00000 *	0 % *	- N.V.
15 *			.00000 *	0 % *	- N.V.
16 *	.18000 *	.14000 *	.16000 *	17.7 % *	
17 *	.10000 *	.10000 *	.10000 *	.0 % *	
18 *	.16000 *	.17000 *	.16500 *	4.3 % *	
19 *	.11000 *	.11000 *	.11000 *	.0 % *	
20 *	.14000 *	.12000 *	.13000 *	10.9 % *	
21 *	.16000 *	.12000 *	.14000 *	20.2 % *	
22 *	.14000 *	.16000 *	.15000 *	9.4 % *	
23 *			.00000 *	0 % *	- N.V.
24 *	.10910 *	.10770 *	.10840 *	.9 % *	
25 *	.14000 *	.14000 *	.14000 *	.0 % *	
26 *			.00000 *	0 % *	- N.V.
27 *			.00000 *	0 % *	- N.V.
28 *	.13300 *	.14600 *	.13950 *	6.6 % *	
29 *	.09000 *	.10000 *	.09500 *	7.4 % *	



Analysis

Kolmogorov-Smirnov test on assuming a Normal distribution. 1 % unreliability;

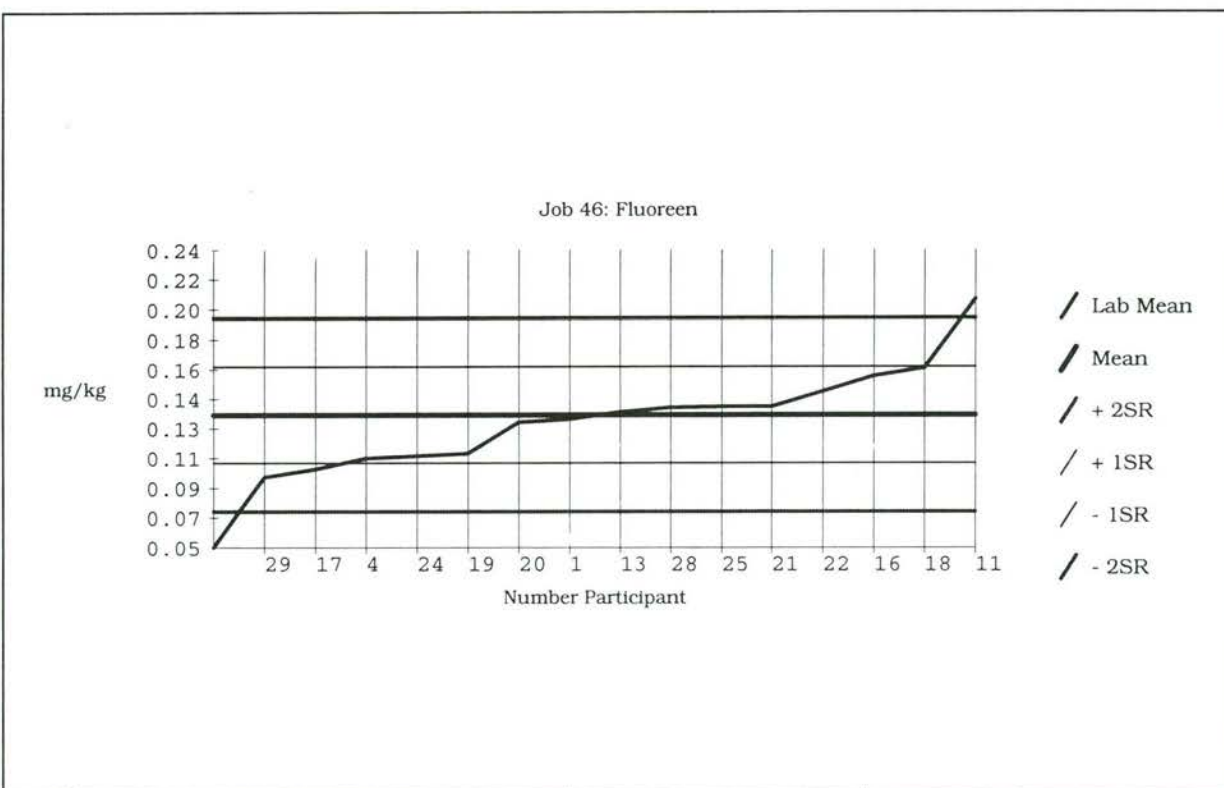
15 laboratory observations

Maximum absolute difference from Normal distribution: 0.16190. Critical value: 0.40400. KS-test passed

No outliers found

Summary

1. Eliminations due to
 - 1.1 Repeatability = 0
 - 1.2 Reproducibility = 0
 - 1.3 Manual rejected = 1
2. General Mean = .13480
3. Repeatability
 - 3.1 Standard deviation $S_r = .01300$
 - 3.2 Coefficient of variation = 10 %
4. Reproducibility
 - 4.1 Standard deviation $S_R = .03091$
 - 4.2 Coefficient of variation = 23 %



Job Classification

Lab *	Mean *	Clas *	Ext *	Clean *	Det *	Procedure *	
7 *	.00000 *	G *	? *	? *	? *	? *	*
8 *	.00000 *	G *	? *	? *	? *	? *	*
14 *	.00000 *	G *	- *	- *	- *	- *	*
2 *	.00000 *	G *	- *	- *	- *	- *	*
9 *	.00000 *	G *	- *	- *	- *	- *	*
15 *	.00000 *	G *	? *	? *	? *	? *	*
26 *	.00000 *	G *	- *	- *	- *	- *	*
3 *	.00000 *	G *	- *	- *	LMC *	NEN 5731	*
10 *	.00000 *	G *	- *	- *	- *	- *	*
27 *	.00000 *	G *	- *	- *	- *	- *	*
5 *	.00000 *	G *	- *	- *	- *	- *	*
12 *	.00000 *	G *	- *	- *	- *	- *	*
23 *	.00000 *	G *	- *	- *	- *	- *	*
6 *	.00000 *	G *	- *	- *	- *	- *	*
29 *	.09500 *	B *	LD *	- *	LMC *	HUIS	*
17 *	.10000 *	B *	LE *	SC *	LMC *	HUIS	*
4 *	.10705 *	A *	- *	- *	- *	- *	*
24 *	.10840 *	A *	LE *	Z *	LMC *	A-O-NEN 5771	*
19 *	.11000 *	A *	LE *	C *	LMC *	VPR C85-11	*
20 *	.13000 *	A *	LE *	- *	LMC *	2e O-NEN 5771	*
1 *	.13200 *	A *	- *	- *	- *	- *	*
13 *	.13650 *	A *	LA *	- *	LUF *	HUIS	*
28 *	.13950 *	A *	- *	- *	- *	- *	*
25 *	.14000 *	A *	LH *	- *	LMC *	G-NEN 5771	*
21 *	.14000 *	A *	- *	- *	LMC *	NEN 5771	*
22 *	.15000 *	A *	- *	- *	- *	- *	*
16 *	.16000 *	A *	LE *	C *	LMC *	C-O-NEN 5771	*
18 *	.16500 *	B *	LA *	C *	LMC *	HUIS	*
11 *	.20850 *	C *	LE *	- *	LMC *	A-NEN 5771	*

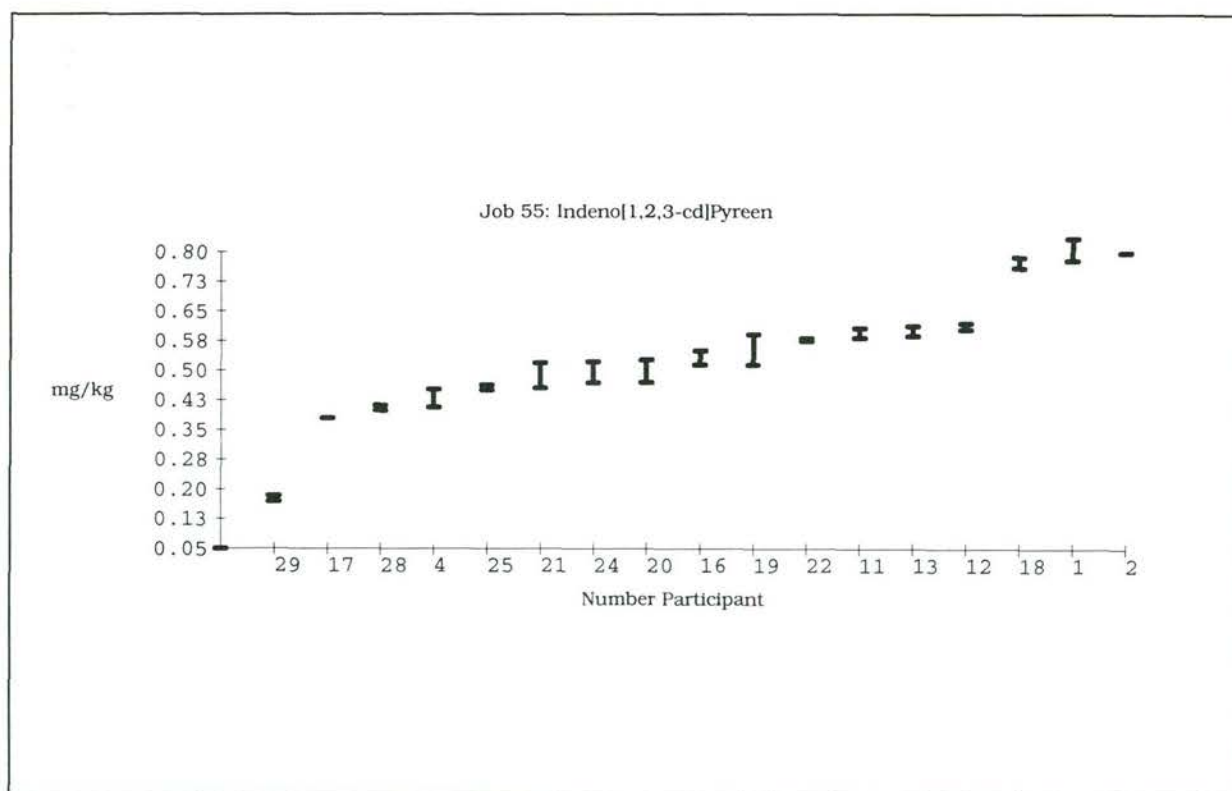
General Mean = .13480
Between lab standard deviation SL = .02805
Coefficient of variation = 21 %
Number of laboratories = 15

A: Number of laboratories with	Z	-scores between 0 and 1	; 11
B: Number of laboratories with	Z	-scores between 1 and 2	; 3
C: Number of laboratories with	Z	-scores between 2 and 3	; 1
D: Number of laboratories with	Z	-scores larger than 3	; 0

Job 55 : 99090, 99094

Indeno[1,2,3-cd]Pyreen, InP in mg/kg Sediment (Lake)

Lab *	X1 *	X2 *	Average *	%Variance *	
1 *	.81880 *	.74010 *	.77945 *	7.1 % *	
2 *	.80000 *	.80000 *	.80000 *	.0 % *	
3 *	.82000 *	.90000 *	.00000 *	0 % *	- N.V. Manueel verwijderd
4 *	.37500 *	.43910 *	.40705 *	11.1 % *	
5 *			.00000 *	0 % *	- N.V.
6 *			.00000 *	0 % *	- N.V.
7 *			.00000 *	0 % *	- N.V.
8 *			.00000 *	0 % *	- N.V.
9 *			.00000 *	0 % *	- N.V.
10 *			.00000 *	0 % *	- N.V.
11 *	.60100 *	.56600 *	.58350 *	4.2 % *	
12 *	.59300 *	.61600 *	.60450 *	2.7 % *	
13 *	.60600 *	.56900 *	.58750 *	4.5 % *	
14 *			.00000 *	0 % *	- N.V.
15 *			.00000 *	0 % *	- N.V.
16 *	.54000 *	.49000 *	.51500 *	6.9 % *	
17 *	.38000 *	.38000 *	.38000 *	.0 % *	
18 *	.74000 *	.78000 *	.76000 *	3.7 % *	
19 *	.57000 *	.46000 *	.51500 *	15.1 % *	
20 *	.51000 *	.43000 *	.47000 *	12.0 % *	
21 *	.50000 *	.41000 *	.45500 *	14.0 % *	
22 *	.57000 *	.58000 *	.57500 *	1.2 % *	
23 *			.00000 *	0 % *	- N.V.
24 *	.43110 *	.50660 *	.46885 *	11.4 % *	
25 *	.44000 *	.46000 *	.45000 *	3.1 % *	
26 *			.00000 *	0 % *	- N.V.
27 *			.00000 *	0 % *	- N.V.
28 *	.39000 *	.40800 *	.39900 *	3.2 % *	
29 *	.16000 *	.18000 *	.17000 *	8.3 % *	



Analysis

Kolmogorov-Smirnov test on assuming a Normal distribution. 1 % unreliability;

17 laboratory observations

Maximum absolute difference from Normal distribution: 0.13206. Critical value: 0.38100. KS-test passed

No outliers found

Summary

1. Eliminations due to
 - 1.1 Repeatability = 0
 - 1.2 Reproducibility = 0
 - 1.3 Manual rejected = 1
2. General Mean = .52470
3. Repeatability
 - 3.1 Standard deviation $S_r = .03875$
 - 3.2 Coefficient of variation = 7 %
4. Reproducibility
 - 4.1 Standard deviation $S_R = .16153$
 - 4.2 Coefficient of variation = 31 %



Job Classification

Lab *	Mean *	Clas *	Ext *	Clean *	Det *	Procedure *	
7 *	.00000	G	?	?	?	?	*
8 *	.00000	G	?	?	?	?	*
14 *	.00000	G	-	-	-	-	*
9 *	.00000	G	-	-	-	-	*
15 *	.00000	G	?	?	?	?	*
26 *	.00000	G	-	-	-	-	*
3 *	.00000	G	-	-	LMC	NEN 5731	*
10 *	.00000	G	-	-	-	-	*
27 *	.00000	G	-	-	-	-	*
5 *	.00000	G	-	-	-	-	*
23 *	.00000	G	-	-	-	-	*
6 *	.00000	G	-	-	-	-	*
29 *	.17000	C	LD	-	LMC	HUIS	*
17 *	.38000	A	LE	SC	LMC	HUIS	*
28 *	.39900	A	-	-	-	-	*
4 *	.40705	A	-	-	-	-	*
25 *	.45000	A	LH	-	LMC	G-NEN 5771	*
21 *	.45500	A	-	-	LMC	NEN 5771	*
24 *	.46885	A	LE	Z	LMC	A-O-NEN 5771	*
20 *	.47000	A	LE	-	LMC	2e O-NEN 5771	*
16 *	.51500	A	LE	C	LMC	C-O-NEN 5771	*
19 *	.51500	A	LE	C	LMC	VPR C85-11	*
22 *	.57500	A	-	-	-	-	*
11 *	.58350	A	LE	-	LMC	A-NEN 5771	*
13 *	.58750	A	LA	-	LUF	HUIS	*
12 *	.60450	A	Z	-	LUF	HUIS	*
18 *	.76000	B	LA	C	LMC	HUIS	*
1 *	.77945	B	-	-	-	-	*
2 *	.80000	B	-	-	-	-	*

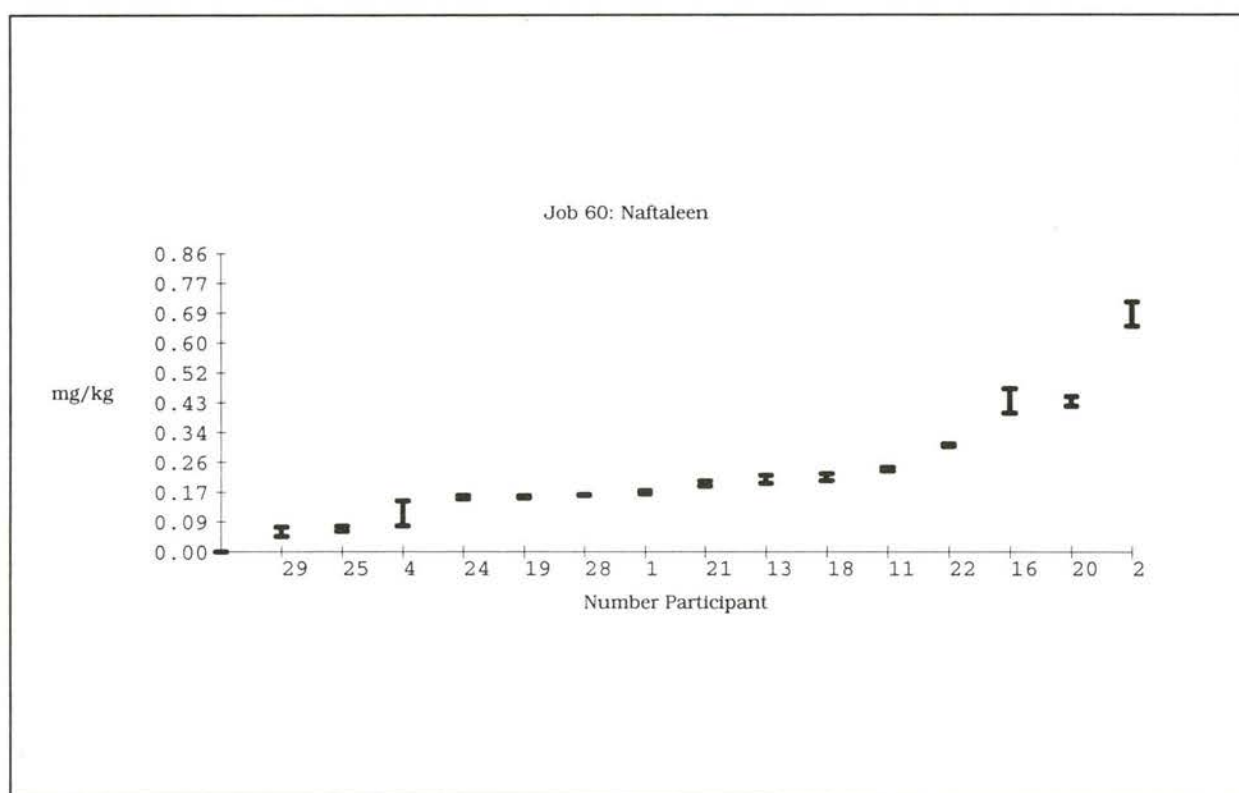
General Mean = .52470
Between lab standard deviation SL = .15682
Coefficient of variation = 30 %
Number of laboratories = 17

A: Number of laboratories with	Z	-scores between 0 and 1	; 13
B: Number of laboratories with	Z	-scores between 1 and 2	; 3
C: Number of laboratories with	Z	-scores between 2 and 3	; 1
D: Number of laboratories with	Z	-scores larger than 3	; 0

Job 60 : 99090, 99094

Naftaleen, Naf in mg/kg Sediment (Lake)

Lab *	X1 *	X2 *	Average *	%Variance *	
1 *	.16180 *	.17390 *	.16785 *	5.1 % *	
2 *	.70000 *	.60000 *	.65000 *	10.9 % *	
3 *	1.10000 *	1.28000 *	.00000 *	0 % *	- N.V.Manueel verwijderd
4 *	.12640 *	.02520 *	.07580 *	94.4 % *	
5 *			.00000 *	0 % *	- N.V.
6 *			.00000 *	0 % *	- N.V.
7 *			.00000 *	0 % *	- N.V.
8 *			.00000 *	0 % *	- N.V.
9 *			.00000 *	0 % *	- N.V.
10 *			.00000 *	0 % *	- N.V.
11 *	.22800 *	.24100 *	.23450 *	3.9 % *	
12 *			.00000 *	0 % *	- N.V.
13 *	.21400 *	.18200 *	.19800 *	11.4 % *	
14 *			.00000 *	0 % *	- N.V.
15 *			.00000 *	0 % *	- N.V.
16 *	.45000 *	.35000 *	.40000 *	17.7 % *	
17 *	.05000 *	.10000 *	.00000 *	0 % *	< N.V.
18 *	.19000 *	.22000 *	.20500 *	10.3 % *	
19 *	.15000 *	.16000 *	.15500 *	4.6 % *	
20 *	.44000 *	.40000 *	.42000 *	6.7 % *	
21 *	.20000 *	.18000 *	.19000 *	7.4 % *	
22 *	.30000 *	.31000 *	.30500 *	2.3 % *	
23 *			.00000 *	0 % *	- N.V.
24 *	.15960 *	.14630 *	.15295 *	6.1 % *	
25 *	.05000 *	.07000 *	.06000 *	23.6 % *	
26 *			.00000 *	0 % *	- N.V.
27 *			.00000 *	0 % *	- N.V.
28 *	.16500 *	.16100 *	.16300 *	1.7 % *	
29 *	.02700 *	.06400 *	.04550 *	57.5 % *	



Analysis

Kolmogorov-Smirnov test on assuming a Normal distribution. 1 % unreliability;

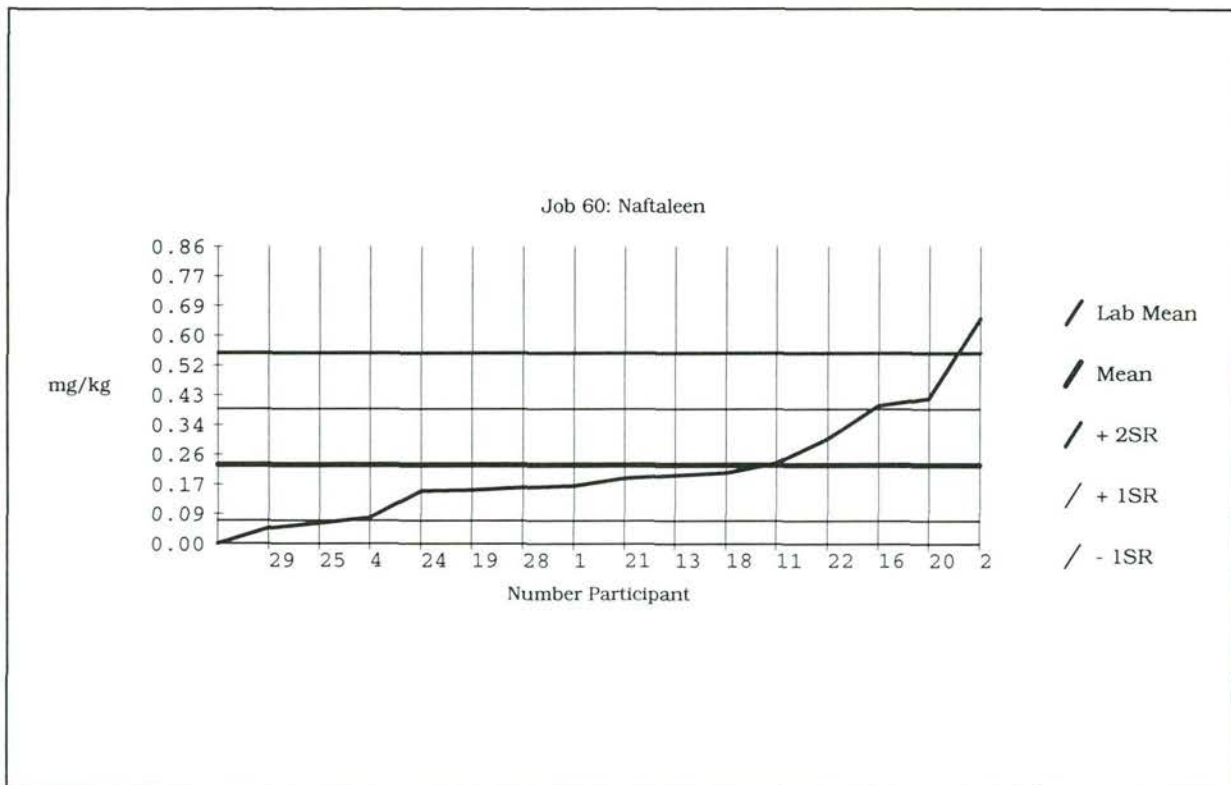
15 laboratory observations

Maximum absolute difference from Normal distribution: 0.22629. Critical value: 0.40400. KS-test passed

No outliers found

Summary

1. Eliminations due to
 - 1.1 Repeatability = 0
 - 1.2 Reproducibility = 0
 - 1.3 Manual rejected = 1
2. General Mean = .22817
3. Repeatability
 - 3.1 Standard deviation $S_r = .03495$
 - 3.2 Coefficient of variation = 15 %
4. Reproducibility
 - 4.1 Standard deviation $S_R = .16156$
 - 4.2 Coefficient of variation = 71 %



Job Classification

Lab *	Mean *	Clas *	Ext *	Clean *	Det *	Procedure *	
7 *	.00000	G	?	?	?	?	*
8 *	.00000	G	?	?	?	?	*
14 *	.00000	G	-	-	-	-	*
9 *	.00000	G	-	-	-	-	*
15 *	.00000	G	?	?	?	?	*
26 *	.00000	G	-	-	-	-	*
3 *	.00000	G	-	-	LMC	NEN 5731	*
10 *	.00000	G	-	-	-	-	*
27 *	.00000	G	-	-	-	-	*
17 *	.00000	G	LE	SC	LMC	HUIS	*
5 *	.00000	G	-	-	-	-	*
12 *	.00000	G	-	-	-	-	*
23 *	.00000	G	-	-	-	-	*
6 *	.00000	G	-	-	-	-	*
29 *	.04550	B	LD	-	LMC	HUIS	*
25 *	.06000	B	LH	-	LMC	G-NEN 5771	*
4 *	.07580	A	-	-	-	-	*
24 *	.15295	A	LE	Z	LMC	A-O-NEN 5771	*
19 *	.15500	A	LE	C	LMC	VPR C85-11	*
28 *	.16300	A	-	-	-	-	*
1 *	.16785	A	-	-	-	-	*
21 *	.19000	A	-	-	LMC	NEN 5771	*
13 *	.19800	A	LA	-	LUF	HUIS	*
18 *	.20500	A	LA	C	LMC	HUIS	*
11 *	.23450	A	LE	-	LMC	A-NEN 5771	*
22 *	.30500	A	-	-	-	-	*
16 *	.40000	B	LE	C	LMC	C-O-NEN 5771	*
20 *	.42000	B	LE	-	LMC	2e O-NEN 5771	*
2 *	.65000	C	-	-	-	-	*

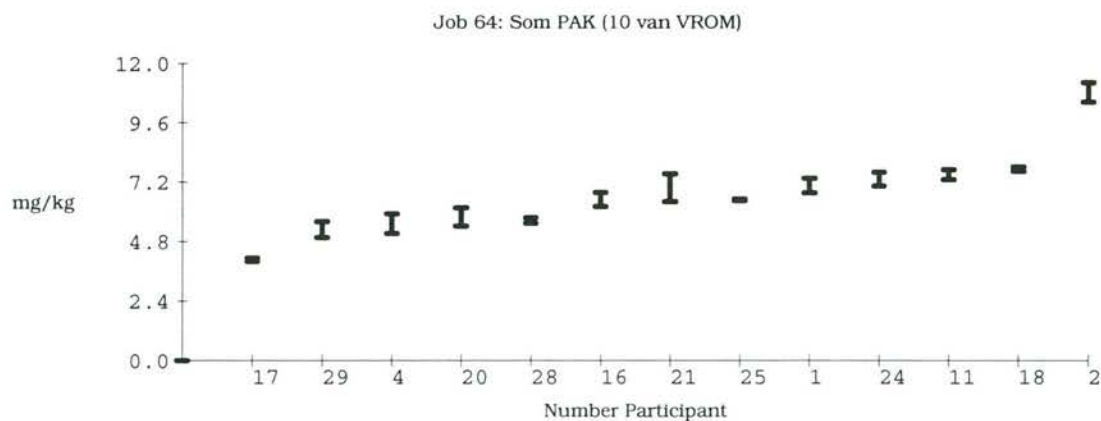
General Mean = .22817
Between lab standard deviation SL = .15774
Coefficient of variation = 69 %
Number of laboratories = 15

A: Number of laboratories with Z-scores between 0 and 1 ; 10
B: Number of laboratories with Z-scores between 1 and 2 ; 4
C: Number of laboratories with Z-scores between 2 and 3 ; 1
D: Number of laboratories with Z-scores larger than 3 ; 0

Job 64 : 99090, 99094

Som PAK (10 van VROM), PAK10 in mg/kg Sediment (Lake)

Lab *	X1 *	X2 *	Average *	%Variance *	
1 *	7.18200 *	6.34900 *	6.76550 *	8.7 % *	
2 *	9.90000 *	11.00000 *	10.45000 *	7.4 % *	
3 *	14.17000 *	14.62000 *	.00000 *	0 % *	- N.V.Manueel verwijderd
4 *	4.57200 *	5.68800 *	5.13000 *	15.4 % *	
5 *			.00000 *	0 % *	- N.V.
6 *			.00000 *	0 % *	- N.V.
7 *			.00000 *	0 % *	- N.V.
8 *			.00000 *	0 % *	- N.V.
9 *			.00000 *	0 % *	- N.V.
10 *			.00000 *	0 % *	- N.V.
11 *	7.58000 *	7.02000 *	7.30000 *	5.4 % *	
12 *			.00000 *	0 % *	- N.V.
13 *			.00000 *	0 % *	- N.V.
14 *			.00000 *	0 % *	- N.V.
15 *			.00000 *	0 % *	- N.V.
16 *	6.62000 *	5.83000 *	6.22500 *	9.0 % *	
17 *	3.90000 *	4.10000 *	4.00000 *	3.5 % *	
18 *	7.51000 *	7.76000 *	7.63500 *	2.3 % *	
19 *			.00000 *	0 % *	- N.V.
20 *	5.95000 *	4.91000 *	5.43000 *	13.5 % *	
21 *	7.20000 *	5.60000 *	6.40000 *	17.7 % *	
22 *			.00000 *	0 % *	- N.V.
23 *			.00000 *	0 % *	- N.V.
24 *	6.66500 *	7.43700 *	7.05100 *	7.7 % *	
25 *	6.40000 *	6.50000 *	6.45000 *	1.1 % *	
26 *			.00000 *	0 % *	- N.V.
27 *			.00000 *	0 % *	- N.V.
28 *	5.40000 *	5.70000 *	5.55000 *	3.8 % *	
29 *	5.42700 *	4.51400 *	4.97050 *	13.0 % *	



Analysis

Kolmogorov-Smirnov test on assuming a Normal distribution. 1 % unreliability;

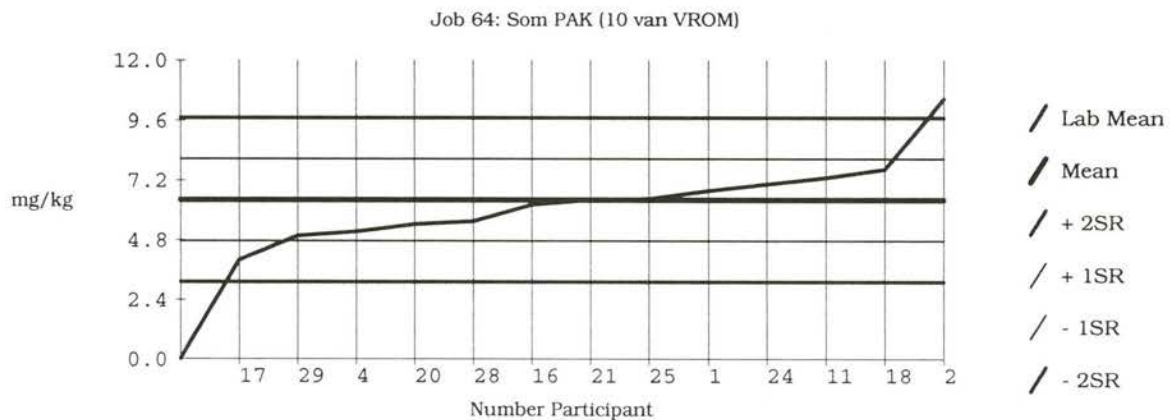
13 laboratory observations

Maximum absolute difference from Normal distribution: 0.14373. Critical value: 0.43200. KS-test passed

No outliers found

Summary

1. Eliminations due to
 - 1.1 Repeatability = 0
 - 1.2 Reproducibility = 0
 - 1.3 Manual rejected = 1
2. General Mean = 6.41208
3. Repeatability
 - 3.1 Standard deviation $S_r = .60002$
 - 3.2 Coefficient of variation = 9 %
4. Reproducibility
 - 4.1 Standard deviation $S_R = 1.64738$
 - 4.2 Coefficient of variation = 26 %



Job Classification

Lab *	Mean *	Clas *	Ext *	Clean *	Det *	Procedure *	
7 *	.00000	G	* ?	* ?	* ?	* ?	*
13 *	.00000	G	* -	* -	* -	* -	*
19 *	.00000	G	* -	* -	* -	* -	*
8 *	.00000	G	* ?	* ?	* ?	* ?	*
14 *	.00000	G	* -	* -	* -	* -	*
9 *	.00000	G	* -	* -	* -	* -	*
15 *	.00000	G	* ?	* ?	* ?	* ?	*
26 *	.00000	G	* -	* -	* -	* -	*
3 *	.00000	G	* -	* -	* LMC	* NEN 5731	*
10 *	.00000	G	* -	* -	* -	* -	*
27 *	.00000	G	* -	* -	* -	* -	*
22 *	.00000	G	* -	* -	* -	* -	*
5 *	.00000	G	* -	* -	* -	* -	*
12 *	.00000	G	* -	* -	* -	* -	*
23 *	.00000	G	* -	* -	* -	* -	*
6 *	.00000	G	* -	* -	* -	* -	*
17 *	4.00000	B	* LE	* SC	* LMC	* HUIS	*
29 *	4.97050	A	* LD	* -	* LMC	* HUIS	*
4 *	5.13000	A	* -	* -	* -	* -	*
20 *	5.43000	A	* LE	* -	* LMC	* 2e O-NEN 5771	*
28 *	5.55000	A	* -	* -	* -	* -	*
16 *	6.22500	A	* LE	* C	* LMC	* C-O-NEN 5771	*
21 *	6.40000	A	* -	* -	* LMC	* NEN 5771	*
25 *	6.45000	A	* LH	* -	* LMC	* G-NEN 5771	*
1 *	6.76550	A	* -	* -	* -	* -	*
24 *	7.05100	A	* LE	* Z	* LMC	* A-O-NEN 5771	*
11 *	7.30000	A	* LE	* -	* LMC	* A-NEN 5771	*
18 *	7.63500	A	* LA	* C	* LMC	* HUIS	*
2 *	10.45000	C	* -	* -	* -	* -	*

General Mean = 6.41208
Between lab standard deviation SL = 1.53422
Coefficient of variation = 24 %
Number of laboratories = 13

A: Number of laboratories with Z|-scores between 0 and 1 ; 11
B: Number of laboratories with Z|-scores between 1 and 2 ; 1
C: Number of laboratories with Z|-scores between 2 and 3 ; 1
D: Number of laboratories with Z|-scores larger than 3 ; 0

Job 81 : 99090, 99094

Phenantreen, Phen in mg/kg Sediment (Lake)

Lab *	X1 *	X2 *	Average *	%Variance *
1 *	.63500	.58350	.60925	6.0 %
2 *	1.30000	1.30000	1.30000	.0 %
3 *	3.02000	3.29000	.00000	0 %
4 *	.48600	.68570	.58585	24.1 %
5 *			.00000	0 %
6 *			.00000	0 %
7 *			.00000	0 %
8 *			.00000	0 %
9 *			.00000	0 %
10 *			.00000	0 %
11 *	.68400	.58500	.63450	11.0 %
12 *	.75800	.71300	.73550	4.3 %
13 *	.69200	.60800	.65000	9.1 %
14 *			.00000	0 %
15 *			.00000	0 %
16 *	.76000	.61000	.68500	15.5 %
17 *	.45000	.47000	.46000	3.1 %
18 *	.67000	.66000	.66500	1.1 %
19 *	.61000	.63000	.62000	2.3 %
20 *	.56000	.47000	.51500	12.4 %
21 *	.92000	.61000	.76500	28.7 %
22 *	.73000	.78000	.75500	4.7 %
23 *			.00000	0 %
24 *	.57890	.61430	.59660	4.2 %
25 *	.83000	.79000	.81000	3.5 %
26 *			.00000	0 %
27 *			.00000	0 %
28 *	.52500	.61700	.57100	11.4 %
29 *	.78000	.70000	.74000	7.6 %

- N.V.Manueel verwijderd

- N.V.

- N.V.

- N.V.

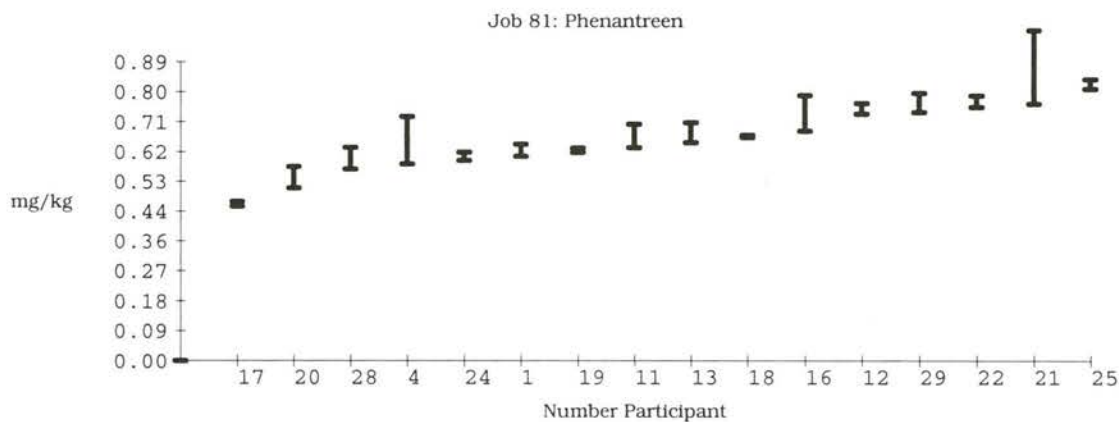
- N.V.

- N.V.

- N.V.

- N.V.

- N.V.



Analysis

Kolmogorov-Smirnov test on assuming a Normal distribution. 1 % unreliability;

17 laboratory observations

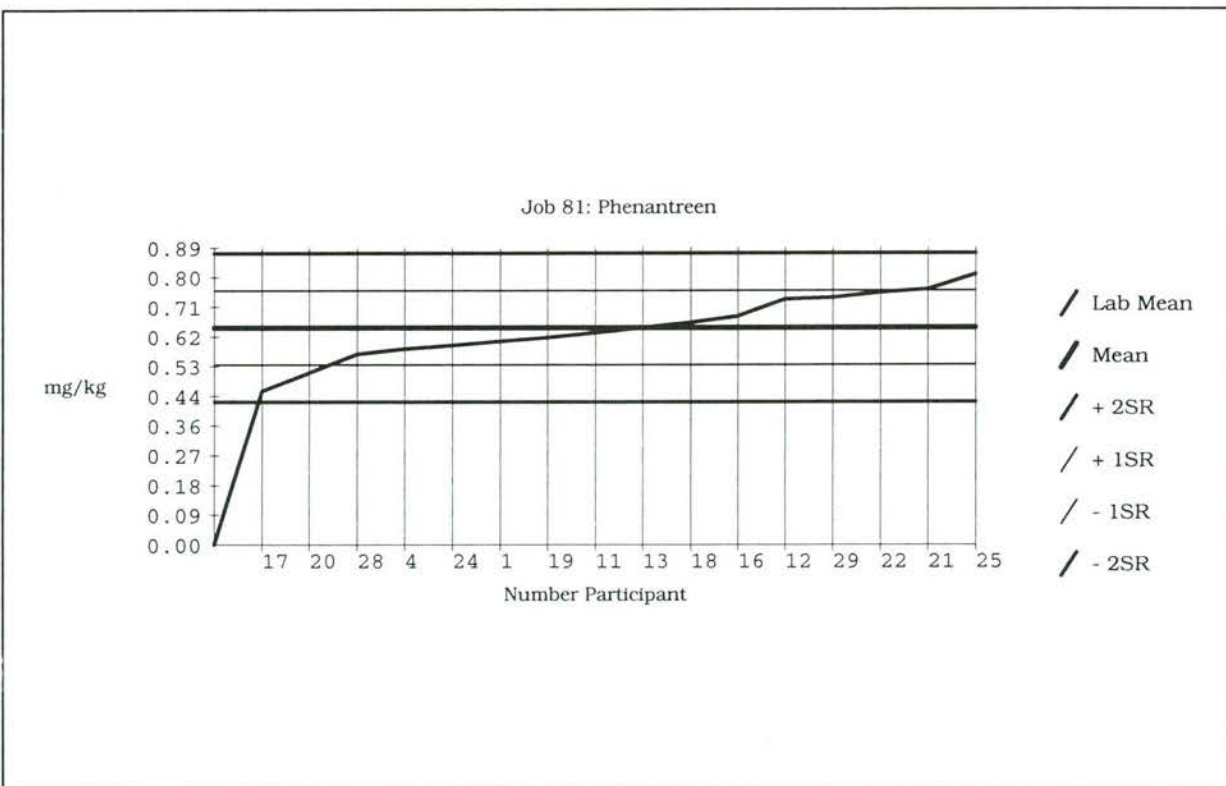
Maximum absolute difference from Normal distribution: 0.21959. Critical value: 0.38100. KS-test passed

GRUBBS; 1 % ; replicas: 2

Cyc	Lab	D/S	Average	Variance	Result	Value
1	2	S	1.30000	.00000	3.34671	2.89400

Summary

1. Eliminations due to
 - 1.1 Repeatability = 0
 - 1.2 Reproducibility = 1
 - 1.3 Manual rejected = 1
2. General Mean = .64986
3. Repeatability
 - 3.1 Standard deviation $S_r = .08086$
 - 3.2 Coefficient of variation = 12 %
4. Reproducibility
 - 4.1 Standard deviation $S_R = .11138$
 - 4.2 Coefficient of variation = 17 %



Job Classification

Lab *	Mean *	Clas *	Ext *	Clean *	Det *	Procedure *	
7 *	.00000 *	G *	? *	? *	? *	? *	*
8 *	.00000 *	G *	? *	? *	? *	? *	*
14 *	.00000 *	G *	- *	- *	- *	- *	*
9 *	.00000 *	G *	- *	- *	- *	- *	*
15 *	.00000 *	G *	? *	? *	? *	? *	*
26 *	.00000 *	G *	- *	- *	- *	- *	*
3 *	.00000 *	G *	- *	- *	LMC *	NEN 5731	*
10 *	.00000 *	G *	- *	- *	- *	- *	*
27 *	.00000 *	G *	- *	- *	- *	- *	*
5 *	.00000 *	G *	- *	- *	- *	- *	*
23 *	.00000 *	G *	- *	- *	- *	- *	*
6 *	.00000 *	G *	? *	? *	? *	? *	*
17 *	.46000 *	B *	LE *	SC *	LMC *	HUIS	*
20 *	.51500 *	B *	LE *	- *	LMC *	2e O-NEN 5771	*
28 *	.57100 *	A *	- *	- *	- *	- *	*
4 *	.58585 *	A *	- *	- *	- *	- *	*
24 *	.59660 *	A *	LE *	Z *	LMC *	A-O-NEN 5771	*
1 *	.60925 *	A *	- *	- *	- *	- *	*
19 *	.62000 *	A *	LE *	C *	LMC *	VPR C85-11	*
11 *	.63450 *	A *	LE *	- *	LMC *	A-NEN 5771	*
13 *	.65000 *	A *	LA *	- *	LUF *	HUIS	*
18 *	.66500 *	A *	LA *	C *	LMC *	HUIS	*
16 *	.68500 *	A *	LE *	C *	LMC *	C-O-NEN 5771	*
12 *	.73550 *	A *	Z *	- *	LUF *	HUIS	*
29 *	.74000 *	A *	LD *	- *	LMC *	HUIS	*
22 *	.75500 *	B *	- *	- *	- *	- *	*
21 *	.76500 *	B *	- *	- *	LMC *	NEN 5771	*
25 *	.81000 *	B *	LH *	- *	LMC *	G-NEN 5771	*
2 *	1.30000 *	R *	- *	- *	- *	- *	*

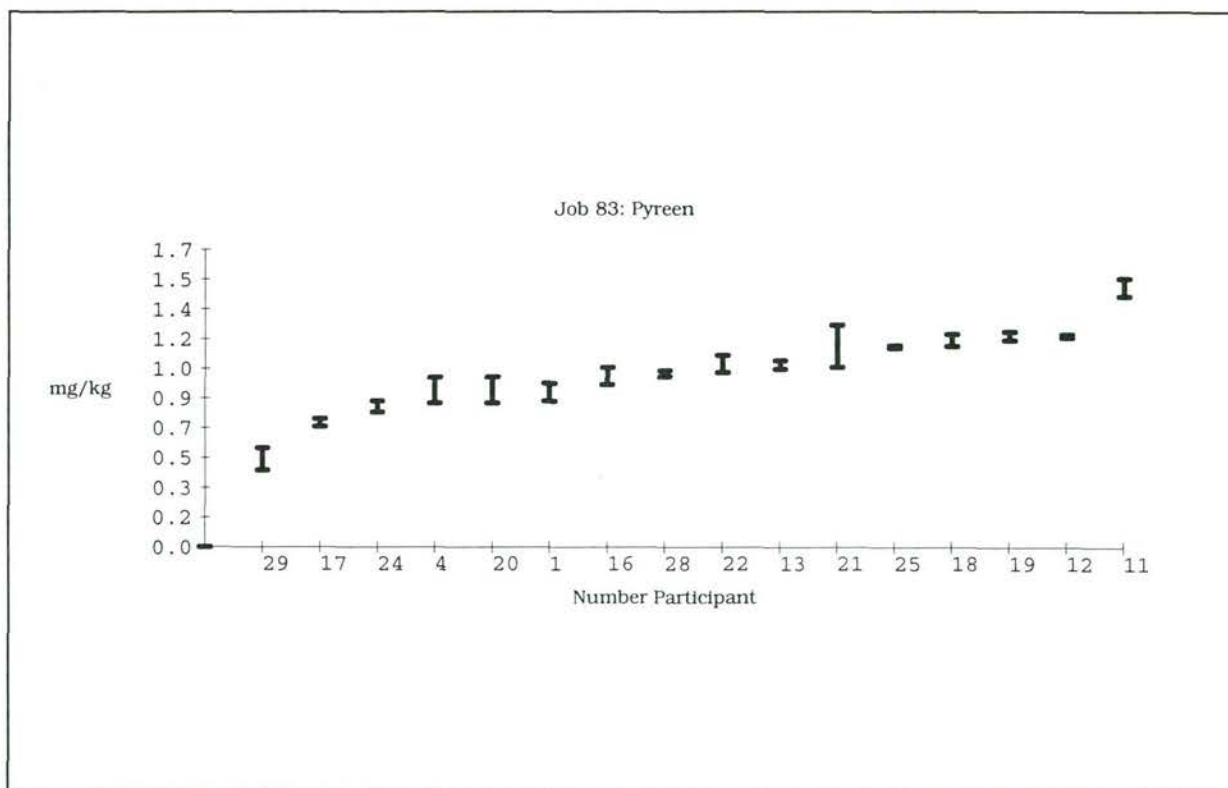
General Mean = .64986
Between lab standard deviation SL = .07660
Coefficient of variation = 12 %
Number of laboratories = 16

A: Number of laboratories with	Z	-scores between 0 and 1	; 11
B: Number of laboratories with	Z	-scores between 1 and 2	; 5
C: Number of laboratories with	Z	-scores between 2 and 3	; 0
D: Number of laboratories with	Z	-scores larger than 3	; 0

Job 83 : 99090, 99094

Pyreen, Pyr in mg/kg Sediment (Lake)

Lab *	X1 *	X2 *	Average *	%Variance *	
1 *	.90730	.76200	.83465	12.3 %	*
2 *			.00000	0 %	* - N.V.
3 *	2.15000	2.06000	.00000	0 %	* - N.V. Manueel verwijderd
4 *	.71890	.92730	.82310	17.9 %	*
5 *			.00000	0 %	* - N.V.
6 *			.00000	0 %	* - N.V.
7 *			.00000	0 %	* - N.V.
8 *			.00000	0 %	* - N.V.
9 *			.00000	0 %	* - N.V.
10 *			.00000	0 %	* - N.V.
11 *	1.51000	1.36700	1.43850	7.0 %	*
12 *	1.18900	1.21400	1.20150	1.5 %	*
13 *	1.05500	.98200	1.01850	5.1 %	*
14 *			.00000	0 %	* - N.V.
15 *			.00000	0 %	* - N.V.
16 *	1.00000	.86000	.93000	10.6 %	*
17 *	.66000	.72000	.69000	6.1 %	*
18 *	1.10000	1.20000	1.15000	6.1 %	*
19 *	1.15000	1.22000	1.18500	4.2 %	*
20 *	.93000	.72000	.82500	18.0 %	*
21 *	1.20000	.86000	1.03000	23.3 %	*
22 *	.93000	1.07000	1.00000	9.9 %	*
23 *			.00000	0 %	* - N.V.
24 *	.72470	.81700	.77085	8.5 %	*
25 *	1.13000	1.15000	1.14000	1.2 %	*
26 *			.00000	0 %	* - N.V.
27 *			.00000	0 %	* - N.V.
28 *	.95100	1.00000	.97550	3.6 %	*
29 *	.53000	.35000	.44000	28.9 %	*



Analysis

Kolmogorov-Smirnov test on assuming a Normal distribution. 1 % unreliability;

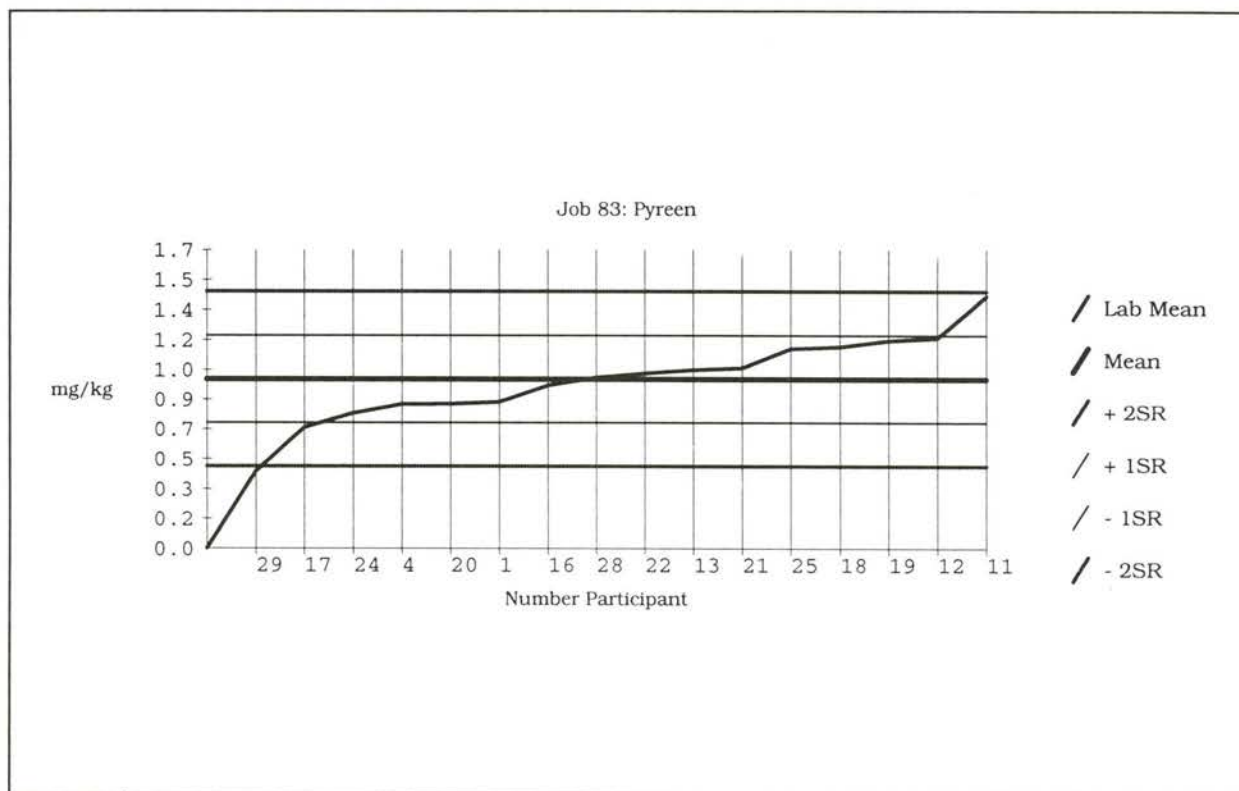
16 laboratory observations

Maximum absolute difference from Normal distribution: 0.09858. Critical value: 0.39200. KS-test passed

No outliers found

Summary

1. Eliminations due to
 - 1.1 Repeatability = 0
 - 1.2 Reproducibility = 0
 - 1.3 Manual rejected = 1
2. General Mean = .96579
3. Repeatability
 - 3.1 Standard deviation $S_r = .10489$
 - 3.2 Coefficient of variation = 11 %
4. Reproducibility
 - 4.1 Standard deviation $S_R = .24916$
 - 4.2 Coefficient of variation = 26 %



Job Classification

Lab *	Mean *	Clas *	Ext *	Clean *	Det *	Procedure *	
7 *	.00000 *	G *	? *	? *	? *	? *	*
8 *	.00000 *	G *	? *	? *	? *	? *	*
14 *	.00000 *	G *	- *	- *	- *	- *	*
2 *	.00000 *	G *	- *	- *	- *	- *	*
9 *	.00000 *	G *	- *	- *	- *	- *	*
15 *	.00000 *	G *	? *	? *	? *	? *	*
26 *	.00000 *	G *	- *	- *	- *	- *	*
3 *	.00000 *	G *	- *	- *	LMC *	NEN 5731	*
10 *	.00000 *	G *	- *	- *	- *	- *	*
27 *	.00000 *	G *	- *	- *	- *	- *	*
5 *	.00000 *	G *	- *	- *	- *	- *	*
23 *	.00000 *	G *	- *	- *	- *	- *	*
6 *	.00000 *	G *	? *	? *	? *	? *	*
29 *	.44000 *	C *	LD *	- *	LMC *	HUIS	*
17 *	.69000 *	B *	LE *	SC *	LMC *	HUIS	*
24 *	.77085 *	A *	LE *	Z *	LMC *	A-O-NEN 5771	*
4 *	.82310 *	A *	- *	- *	- *	- *	*
20 *	.82500 *	A *	LE *	- *	LMC *	2e O-NEN 5771	*
1 *	.83465 *	A *	- *	- *	- *	- *	*
16 *	.93000 *	A *	LE *	C *	LMC *	C-O-NEN 5771	*
28 *	.97550 *	A *	- *	- *	- *	- *	*
22 *	1.00000 *	A *	- *	- *	- *	- *	*
13 *	1.01850 *	A *	LA *	- *	LUF *	HUIS	*
21 *	1.03000 *	A *	- *	- *	LMC *	NEN 5771	*
25 *	1.14000 *	A *	LH *	- *	LMC *	G-NEN 5771	*
18 *	1.15000 *	A *	LA *	C *	LMC *	HUIS	*
19 *	1.18500 *	A *	LE *	C *	LMC *	VPR C85-11	*
12 *	1.20150 *	A *	Z *	- *	LUF *	HUIS	*
11 *	1.43850 *	B *	LE *	- *	LMC *	A-NEN 5771	*

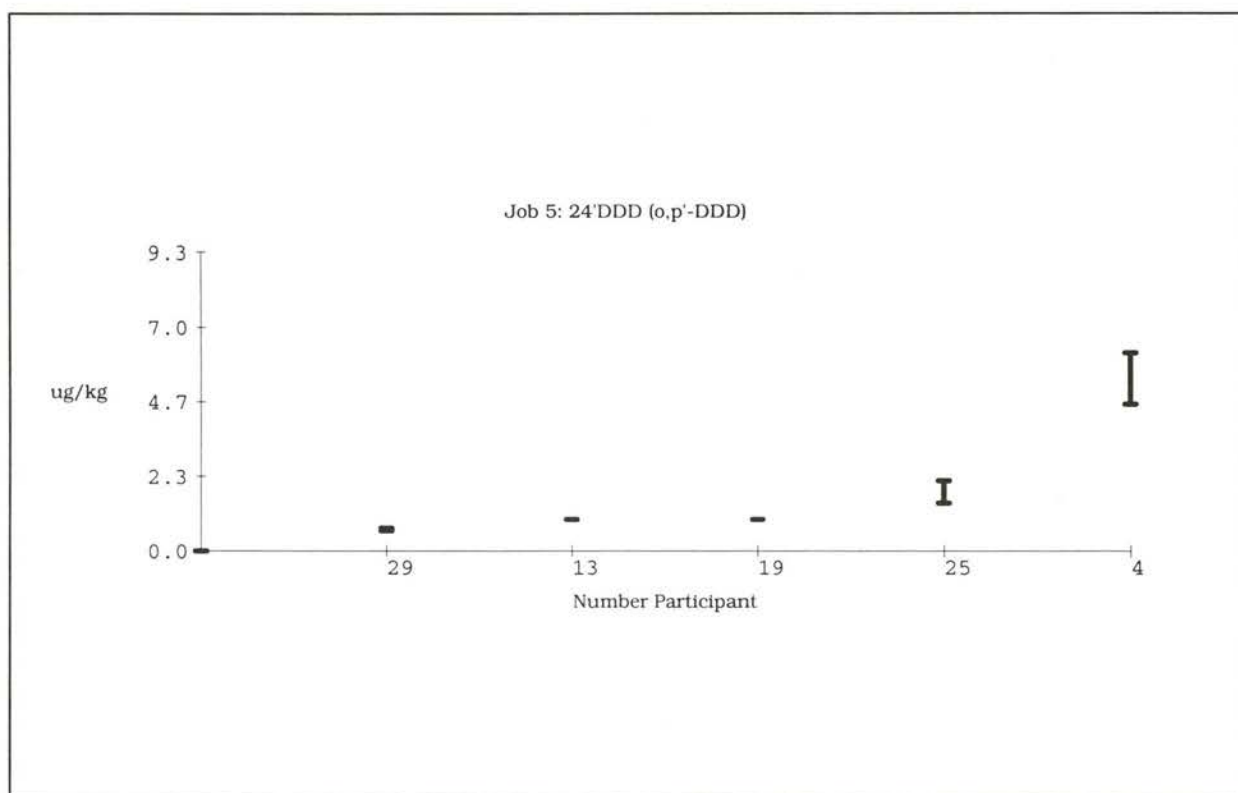
General Mean = .96579
Between lab standard deviation SL = .22601
Coefficient of variation = 23 %
Number of laboratories = 16

A: Number of laboratories with |Z|-scores between 0 and 1 ; 13
B: Number of laboratories with |Z|-scores between 1 and 2 ; 2
C: Number of laboratories with |Z|-scores between 2 and 3 ; 1
D: Number of laboratories with |Z|-scores larger than 3 ; 0

Job 5 : 99090, 99094

24'DDD (o,p'-DDD), 24DDD in ug/kg Sediment (Lake)

Lab *	X1 *	X2 *	Average *	%Variance *	
1 *	1.00000 *	1.00000 *	.00000 *	0 % *	< N.V.
2 *	4.00000 *	4.00000 *	.00000 *	0 % *	< N.V.
3 *	20.00000 *	20.00000 *	.00000 *	0 % *	< N.V.
4 *	5.71000 *	3.46000 *	4.58500 *	34.7 % *	
5 *			.00000 *	0 % *	- N.V.
6 *			.00000 *	0 % *	- N.V.
7 *			.00000 *	0 % *	- N.V.
8 *			.00000 *	0 % *	- N.V.
9 *			.00000 *	0 % *	- N.V.
10 *			.00000 *	0 % *	- N.V.
11 *			.00000 *	0 % *	- N.V.
12 *	.50000 *	.50000 *	.00000 *	0 % *	< N.V.
13 *	1.00000 *	1.00000 *	1.00000 *	.0 % *	
14 *			.00000 *	0 % *	- N.V.
15 *			.00000 *	0 % *	- N.V.
16 *	5.00000 *	5.00000 *	.00000 *	0 % *	< N.V.
17 *			.00000 *	0 % *	- N.V.
18 *	.30000 *	.30000 *	.00000 *	0 % *	< N.V.
19 *	1.00000 *	1.00000 *	1.00000 *	.0 % *	
20 *	.40000 *	.40000 *	.00000 *	0 % *	< N.V.
21 *	1.00000 *	1.00000 *	.00000 *	0 % *	< N.V.
22 *	5.00000 *	5.00000 *	.00000 *	0 % *	< N.V.
23 *			.00000 *	0 % *	- N.V.
24 *			.00000 *	0 % *	- N.V.
25 *	1.00000 *	2.00000 *	1.50000 *	47.1 % *	
26 *			.00000 *	0 % *	- N.V.
27 *	2.50000 *	2.50000 *	.00000 *	0 % *	< N.V.
28 *	10.00000 *	10.00000 *	.00000 *	0 % *	< N.V.
29 *	.70000 *	.60000 *	.65000 *	10.9 % *	



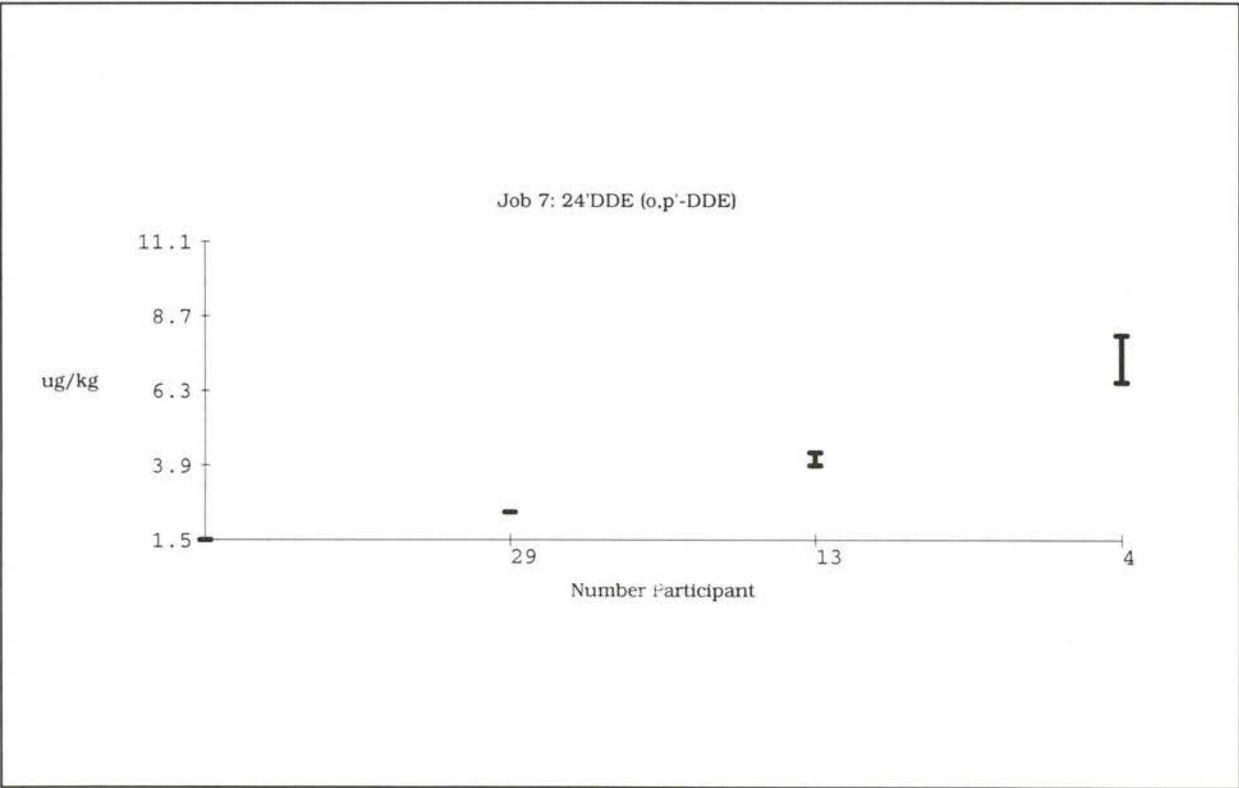
Job Classification

Lab *	Mean *	Clas *	Ext *	Clean *	Det *	Procedure *	
7 *	.00000 *	N *	? *	? *	? *	? *	*
24 *	.00000 *	N *	- *	- *	- *	- *	*
1 *	.00000 *	N *	S *	- *	GSM *	HUIS *	*
8 *	.00000 *	N *	? *	? *	? *	? *	*
14 *	.00000 *	N *	- *	- *	- *	- *	*
2 *	.00000 *	N *	- *	- *	- *	- *	*
9 *	.00000 *	N *	- *	- *	- *	- *	*
15 *	.00000 *	N *	? *	? *	? *	? *	*
20 *	.00000 *	N *	LE *	SC *	GDE *	A-O-NEN 5718 *	*
26 *	.00000 *	N *	- *	- *	- *	- *	*
3 *	.00000 *	N *	- *	- *	GDE *	NEN 5734 *	*
10 *	.00000 *	N *	- *	- *	- *	- *	*
16 *	.00000 *	N *	LE *	SC *	GDE *	HUIS *	*
21 *	.00000 *	N *	LP *	- *	GSM *	HUIS *	*
27 *	.00000 *	N *	- *	- *	- *	HUIS *	*
11 *	.00000 *	N *	- *	- *	- *	- *	*
17 *	.00000 *	N *	- *	- *	- *	- *	*
22 *	.00000 *	N *	- *	- *	- *	- *	*
28 *	.00000 *	N *	- *	- *	- *	NEN 5734 *	*
5 *	.00000 *	N *	- *	- *	- *	- *	*
12 *	.00000 *	N *	Z *	Z *	GDE *	HUIS *	*
18 *	.00000 *	N *	LA *	C *	GDE *	HUIS *	*
23 *	.00000 *	N *	- *	- *	- *	- *	*
6 *	.00000 *	N *	- *	- *	- *	- *	*
29 *	.65000 *	N *	LE *	LLSC *	GDE *	HUIS *	*
13 *	1.00000 *	N *	LA *	S *	GDE *	NEN 5718/6406 *	*
19 *	1.00000 *	N *	LE *	C *	GDE *	G-NEN 5734 *	*
25 *	1.50000 *	N *	LH *	- *	GDE *	NEN 5734 *	*
4 *	4.58500 *	N *	- *	- *	- *	- *	*

Job 7 : 99090, 99094

24'DDE (o,p'-DDE), 24DDE in ug/kg Sediment (Lake)

Lab *	X1 *	X2 *	Average *	%Variance *	
1 *	1.00000 *	1.00000 *	.00000 *	0 % *	< N.V.
2 *	6.00000 *	6.00000 *	.00000 *	0 % *	< N.V.
3 *	10.00000 *	10.00000 *	.00000 *	0 % *	< N.V.
4 *	7.64000 *	5.50000 *	6.57000 *	23.0 % *	
5 *			.00000 *	0 % *	- N.V.
6 *			.00000 *	0 % *	- N.V.
7 *			.00000 *	0 % *	- N.V.
8 *			.00000 *	0 % *	- N.V.
9 *			.00000 *	0 % *	- N.V.
10 *			.00000 *	0 % *	- N.V.
11 *			.00000 *	0 % *	- N.V.
12 *	.50000 *	.50000 *	.00000 *	0 % *	< N.V.
13 *	4.20000 *	3.60000 *	3.90000 *	10.9 % *	
14 *			.00000 *	0 % *	- N.V.
15 *			.00000 *	0 % *	- N.V.
16 *	5.00000 *	5.00000 *	.00000 *	0 % *	< N.V.
17 *			.00000 *	0 % *	- N.V.
18 *	.30000 *	.30000 *	.00000 *	0 % *	< N.V.
19 *	1.00000 *	1.00000 *	.00000 *	0 % *	< N.V.
20 *	.70000 *	.70000 *	.00000 *	0 % *	< N.V.
21 *	2.10000 *	1.00000 *	.00000 *	0 % *	
22 *	1.00000 *	1.00000 *	.00000 *	0 % *	< N.V.
23 *			.00000 *	0 % *	- N.V.
24 *			.00000 *	0 % *	- N.V.
25 *	1.00000 *	1.00000 *	.00000 *	0 % *	< N.V.
26 *			.00000 *	0 % *	- N.V.
27 *	2.50000 *	2.50000 *	.00000 *	0 % *	< N.V.
28 *	10.00000 *	10.00000 *	.00000 *	0 % *	< N.V.
29 *	2.40000 *	2.40000 *	2.40000 *	.0 % *	



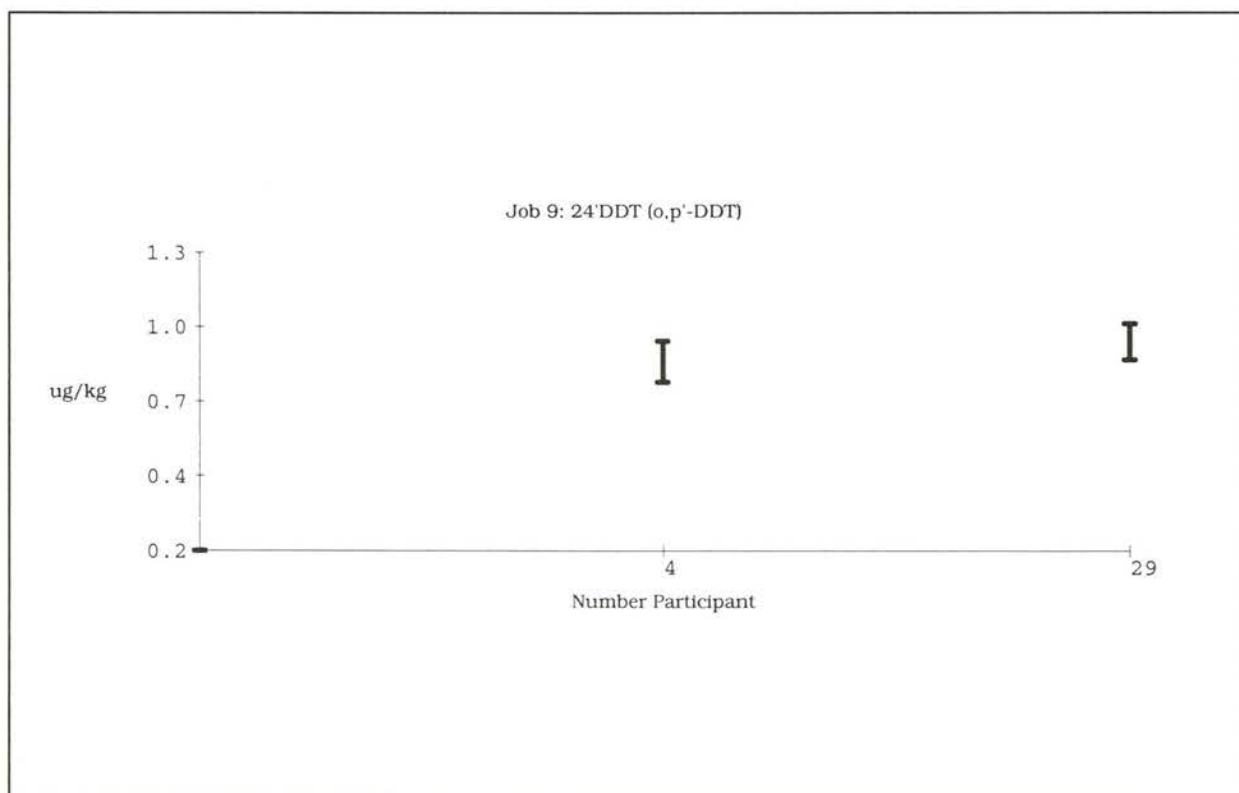
Job Classification

Lab *	Mean *	Clas *	Ext *	Clean *	Det *	Procedure *	*
7 *	.00000 *	N *	? *	? *	? *	? *	*
19 *	.00000 *	N *	LE *	C *	GDE *	G-NEN 5734	*
24 *	.00000 *	N *	- *	- *	- *	- *	*
1 *	.00000 *	N *	- *	- *	- *	- *	*
8 *	.00000 *	N *	? *	? *	? *	? *	*
14 *	.00000 *	N *	- *	- *	- *	- *	*
25 *	.00000 *	N *	LH *	- *	GDE *	NEN 5734	*
2 *	.00000 *	N *	- *	- *	- *	- *	*
9 *	.00000 *	N *	- *	- *	- *	- *	*
15 *	.00000 *	N *	? *	? *	? *	? *	*
20 *	.00000 *	N *	LE *	SC *	GDE *	A-O-NEN 5718	*
26 *	.00000 *	N *	- *	- *	- *	- *	*
3 *	.00000 *	N *	- *	- *	GDE *	NEN 5734	*
10 *	.00000 *	N *	- *	- *	- *	- *	*
16 *	.00000 *	N *	LE *	SC *	GDE *	HUIS	*
21 *	.00000 *	N *	LP *	- *	GSM *	HUIS	*
27 *	.00000 *	N *	- *	- *	- *	HUIS	*
11 *	.00000 *	N *	- *	- *	- *	- *	*
17 *	.00000 *	N *	- *	- *	- *	- *	*
22 *	.00000 *	N *	- *	- *	- *	- *	*
28 *	.00000 *	N *	- *	- *	- *	NEN 5734	*
5 *	.00000 *	N *	- *	- *	- *	- *	*
12 *	.00000 *	N *	Z *	Z *	GDE *	HUIS	*
18 *	.00000 *	N *	LA *	C *	GDE *	HUIS	*
23 *	.00000 *	N *	- *	- *	- *	- *	*
6 *	.00000 *	N *	- *	- *	- *	- *	*
29 *	2.40000 *	N *	LE *	LLSC *	GDE *	HUIS	*
13 *	3.90000 *	N *	LA *	S *	GDE *	NEN 5718/6406	*
4 *	6.57000 *	N *	- *	- *	- *	- *	*

Job 9 : 99090, 99094

24' DDT (o,p'-DDT), 24DDT in ug/kg Sediment (Lake)

Lab *	X1 *	X2 *	Average *	%Variance *	
1 *	1.00000 *	1.00000 *	.00000 *	0 % *	< N.V.
2 *	8.00000 *	6.00000 *	.00000 *	0 % *	< N.V.
3 *	10.00000 *	1.00000 *	.00000 *	0 % *	< N.V.
4 *	.69700 *	.92500 *	.81100 *	19.9 % *	
5 *			.00000 *	0 % *	- N.V.
6 *			.00000 *	0 % *	- N.V.
7 *			.00000 *	0 % *	- N.V.
8 *			.00000 *	0 % *	- N.V.
9 *			.00000 *	0 % *	- N.V.
10 *			.00000 *	0 % *	- N.V.
11 *			.00000 *	0 % *	- N.V.
12 *	.50000 *	.50000 *	.00000 *	0 % *	< N.V.
13 *	1.00000 *	1.00000 *	.00000 *	0 % *	< N.V.
14 *			.00000 *	0 % *	- N.V.
15 *			.00000 *	0 % *	- N.V.
16 *	5.00000 *	5.00000 *	.00000 *	0 % *	< N.V.
17 *	5.00000 *	5.00000 *	.00000 *	0 % *	< N.V.
18 *	.30000 *	.30000 *	.00000 *	0 % *	< N.V.
19 *	1.00000 *	1.00000 *	.00000 *	0 % *	< N.V.
20 *	.50000 *	.50000 *	.00000 *	0 % *	< N.V.
21 *	1.00000 *	1.00000 *	.00000 *	0 % *	< N.V.
22 *	.50000 *	.50000 *	.00000 *	0 % *	< N.V.
23 *			.00000 *	0 % *	- N.V.
24 *			.00000 *	0 % *	- N.V.
25 *	1.00000 *	1.00000 *	.00000 *	0 % *	< N.V.
26 *			.00000 *	0 % *	- N.V.
27 *	2.50000 *	2.50000 *	.00000 *	0 % *	< N.V.
28 *	10.00000 *	10.00000 *	.00000 *	0 % *	< N.V.
29 *	.80000 *	1.00000 *	.90000 *	15.7 % *	



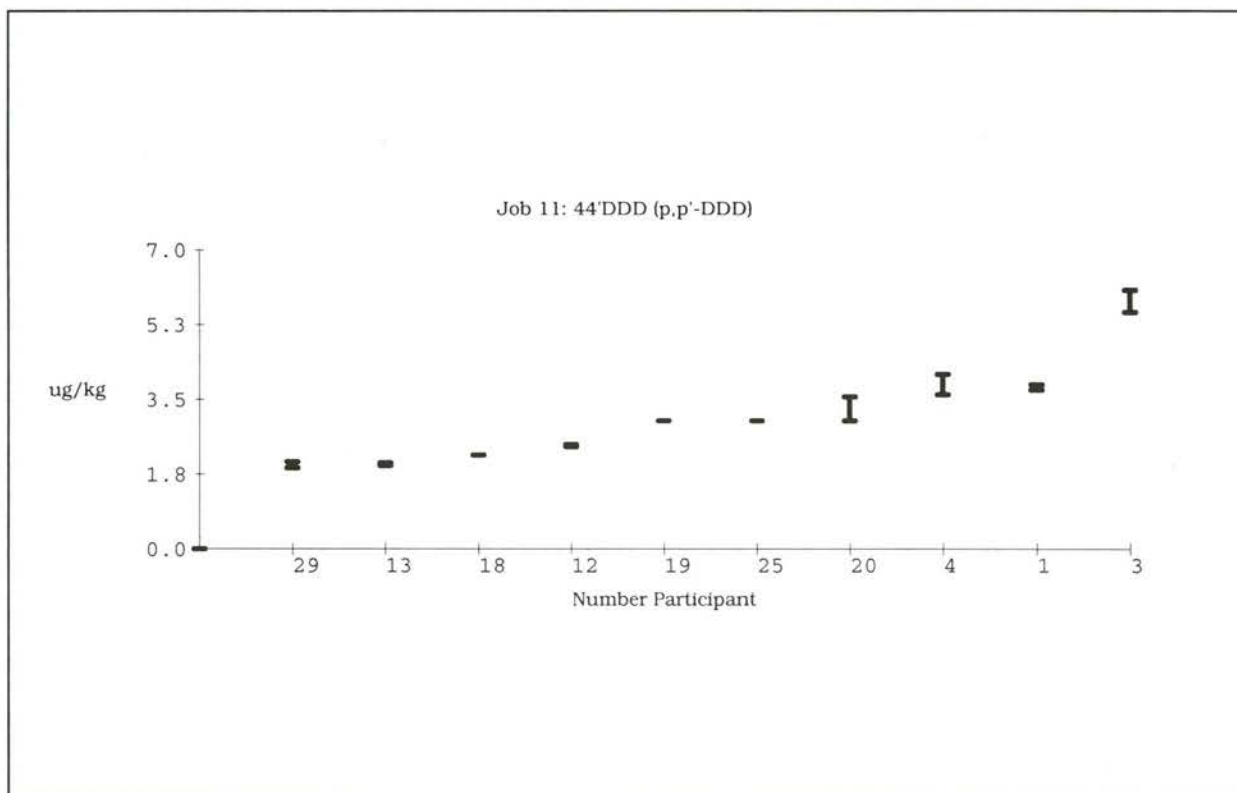
Job Classification

Lab *	Mean *	Clas *	Ext *	Clean *	Det *	Procedure *	
7 *	.00000 *	N *	? *	? *	? *	? *	*
13 *	.00000 *	N *	LA *	S *	GDE *	NEN 5718/6406	*
19 *	.00000 *	N *	LE *	C *	GDE *	G-NEN 5734	*
24 *	.00000 *	N *	- *	- *	- *	- *	*
1 *	.00000 *	N *	- *	- *	- *	- *	*
8 *	.00000 *	N *	? *	? *	? *	? *	*
14 *	.00000 *	N *	- *	- *	- *	- *	*
25 *	.00000 *	N *	LH *	- *	GDE *	NEN 5734	*
2 *	.00000 *	N *	- *	- *	- *	- *	*
9 *	.00000 *	N *	- *	- *	- *	- *	*
15 *	.00000 *	N *	? *	? *	? *	? *	*
20 *	.00000 *	N *	LE *	SC *	GDE *	A-O-NEN 5718	*
26 *	.00000 *	N *	- *	- *	- *	- *	*
3 *	.00000 *	N *	- *	- *	GDE *	NEN 5734	*
10 *	.00000 *	N *	- *	- *	- *	- *	*
16 *	.00000 *	N *	LE *	SC *	GDE *	HUIS	*
21 *	.00000 *	N *	LP *	- *	GSM *	HUIS	*
27 *	.00000 *	N *	- *	- *	- *	HUIS	*
11 *	.00000 *	N *	- *	- *	- *	- *	*
17 *	.00000 *	N *	LE *	SC *	GDE *	HUIS	*
22 *	.00000 *	N *	- *	- *	- *	- *	*
28 *	.00000 *	N *	- *	- *	- *	NEN 5734	*
5 *	.00000 *	N *	- *	- *	- *	- *	*
12 *	.00000 *	N *	Z *	Z *	GDE *	HUIS	*
18 *	.00000 *	N *	LA *	C *	GDE *	HUIS	*
23 *	.00000 *	N *	- *	- *	- *	- *	*
6 *	.00000 *	N *	- *	- *	- *	- *	*
4 *	.81100 *	N *	- *	- *	- *	- *	*
29 *	.90000 *	N *	LE *	LLSC *	GDE *	HUIS	*

Job 11 : 99090, 99094

44'DDD (p,p'-DDD), 44DDD in ug/kg Sediment (Lake)

Lab *	X1 *	X2 *	Average *	%Variance *	
1 *	3.81600 *	3.64600 *	3.73100 *	3.2 % *	
2 *	4.00000 *	6.00000 *	.00000 *	0 % *	< N.V.
3 *	5.91000 *	5.18000 *	5.54500 *	9.3 % *	
4 *	3.95000 *	3.28000 *	3.61500 *	13.1 % *	
5 *			.00000 *	0 % *	- N.V.
6 *			.00000 *	0 % *	- N.V.
7 *			.00000 *	0 % *	- N.V.
8 *			.00000 *	0 % *	- N.V.
9 *			.00000 *	0 % *	- N.V.
10 *			.00000 *	0 % *	- N.V.
11 *			.00000 *	0 % *	- N.V.
12 *	2.43000 *	2.35000 *	2.39000 *	2.4 % *	
13 *	1.90000 *	2.00000 *	1.95000 *	3.6 % *	
14 *			.00000 *	0 % *	- N.V.
15 *			.00000 *	0 % *	- N.V.
16 *	5.00000 *	5.00000 *	.00000 *	0 % *	< N.V.
17 *	5.00000 *	5.00000 *	.00000 *	0 % *	< N.V.
18 *	2.20000 *	2.20000 *	2.20000 *	.0 % *	
19 *	3.00000 *	3.00000 *	3.00000 *	.0 % *	
20 *	3.40000 *	2.60000 *	3.00000 *	18.9 % *	
21 *	1.00000 *	1.00000 *	.00000 *	0 % *	< N.V.
22 *	3.00000 *	5.00000 *	.00000 *	0 % *	
23 *			.00000 *	0 % *	- N.V.
24 *			.00000 *	0 % *	- N.V.
25 *	3.00000 *	3.00000 *	3.00000 *	.0 % *	
26 *			.00000 *	0 % *	- N.V.
27 *	2.50000 *	2.50000 *	.00000 *	0 % *	< N.V.
28 *	10.00000 *	10.00000 *	.00000 *	0 % *	< N.V.
29 *	1.80000 *	2.00000 *	1.90000 *	7.4 % *	



Analysis

Kolmogorov-Smirnov test on assuming a Normal distribution. 1 % unreliability;

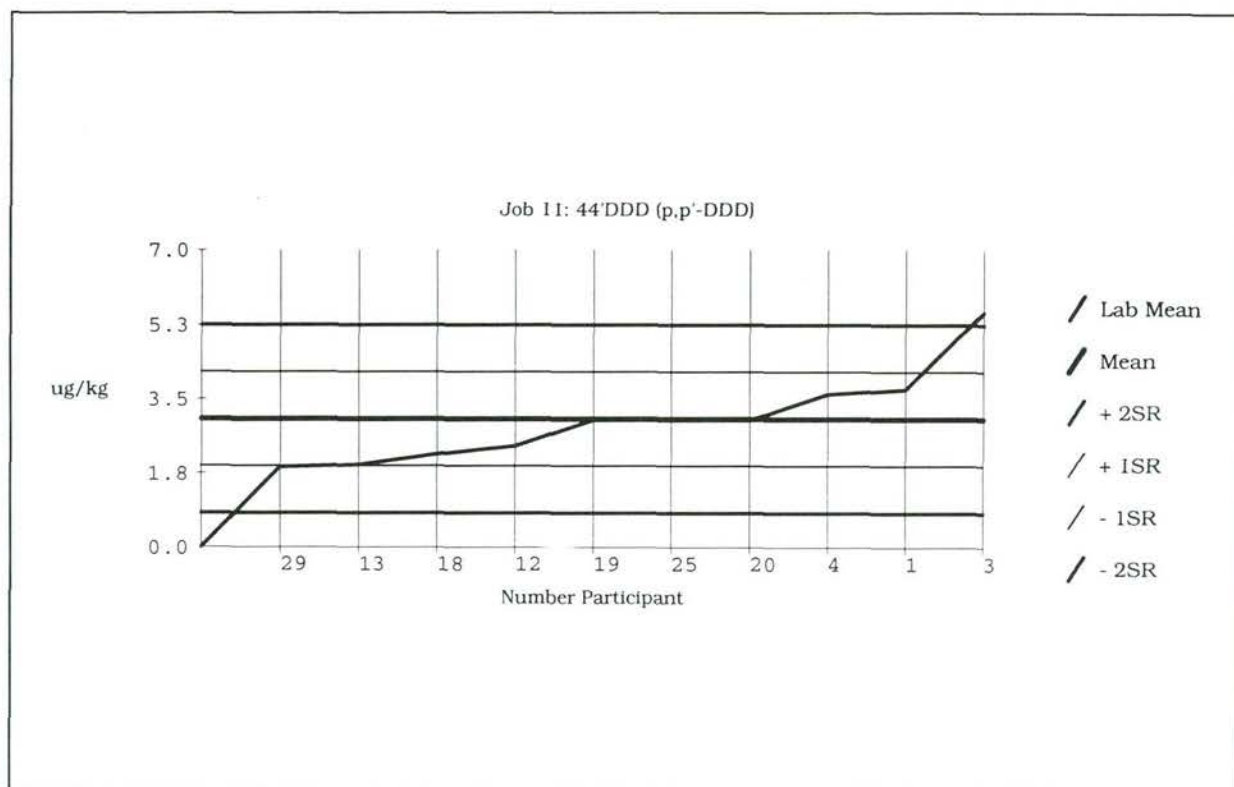
10 laboratory observations

Maximum absolute difference from Normal distribution: 0.21197. Critical value: 0.48900. KS-test passed

No outliers found

Summary

1. Eliminations due to
 - 1.1 Repeatability = 0
 - 1.2 Reproducibility = 0
 - 1.3 Manual rejected = 0
2. General Mean = 3.03310
3. Repeatability
 - 3.1 Standard deviation $S_r = .29216$
 - 3.2 Coefficient of variation = 10 %
4. Reproducibility
 - 4.1 Standard deviation $S_R = 1.10992$
 - 4.2 Coefficient of variation = 37 %



Job Classification

Lab	Mean	Clas	Ext	Clean	Det	Procedure
7	.00000	G	*	*	*	*
24	.00000	G	*	*	*	*
8	.00000	G	*	*	*	*
14	.00000	G	*	*	*	*
2	.00000	G	*	*	*	*
9	.00000	G	*	*	*	*
15	.00000	G	*	*	*	*
26	.00000	G	*	*	*	*
10	.00000	G	*	*	*	*
16	.00000	G	LE	SC	GDE	HUIS
21	.00000	G	LP	*	GSM	HUIS
27	.00000	G	*	*	*	HUIS
11	.00000	G	*	*	*	*
17	.00000	G	LE	SC	GDE	HUIS
22	.00000	G	*	*	*	*
28	.00000	G	*	*	*	NEN 5734
5	.00000	G	*	*	*	*
23	.00000	G	*	*	*	*
6	.00000	G	*	*	*	*
29	1.90000	B	LE	LLSC	GDE	HUIS
13	1.95000	A	LA	S	GDE	NEN 5718/6406
18	2.20000	A	LA	C	GDE	HUIS
12	2.39000	A	Z	Z	GDE	HUIS
19	3.00000	A	LE	C	GDE	G-NEN 5734
25	3.00000	A	LH	*	GDE	NEN 5734
20	3.00000	A	LE	SC	GDE	A-O-NEN 5718
4	3.61500	A	*	*	*	*
1	3.73100	A	*	*	*	*
3	5.54500	C	*	*	GDE	NEN 5734

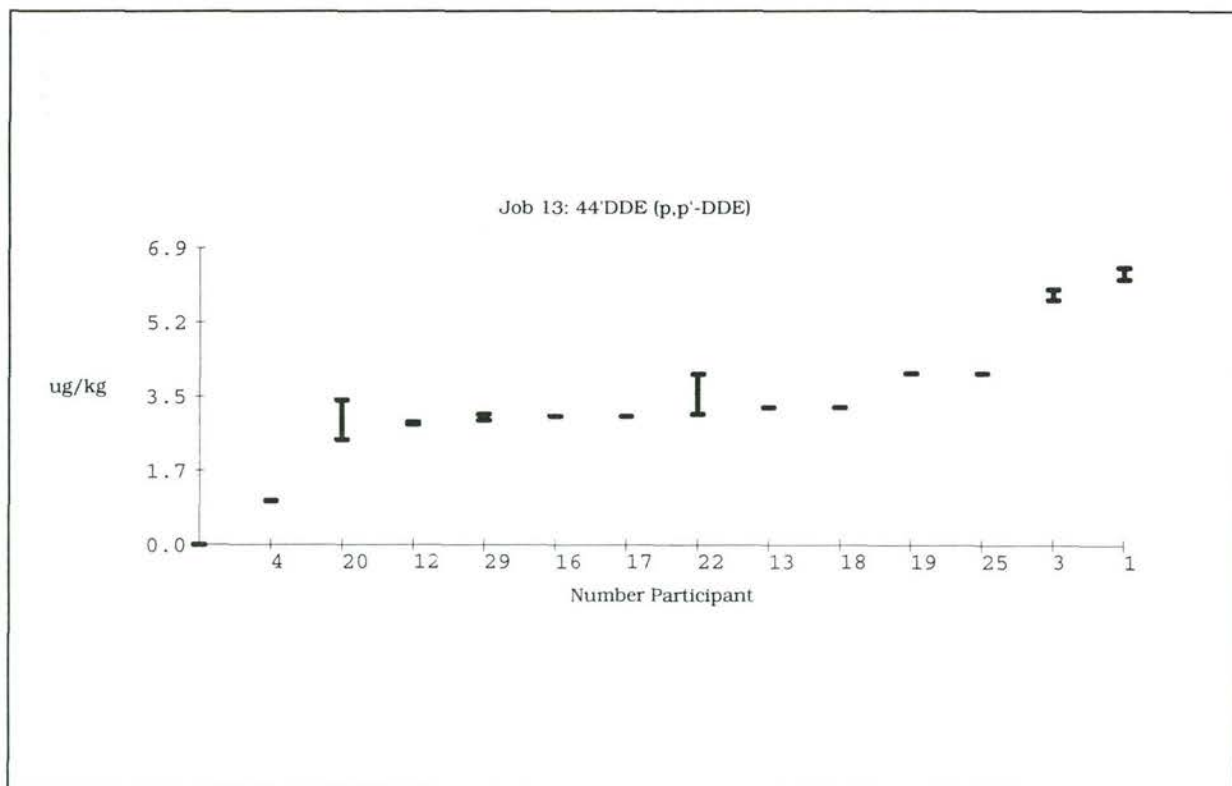
General Mean = 3.03310
Between lab standard deviation SL = 1.07078
Coefficient of variation = 35 %
Number of laboratories = 10

A: Number of laboratories with Z-scores between 0 and 1 ; 8
B: Number of laboratories with Z-scores between 1 and 2 ; 1
C: Number of laboratories with Z-scores between 2 and 3 ; 1
D: Number of laboratories with Z-scores larger than 3 ; 0

Job 13 : 99090, 99094

44'DDE (p,p'-DDE), 44DDE in ug/kg Sediment (Lake)

Lab *	X1 *	X2 *	Average *	%Variance *	
1 *	5.98600 *	6.37200 *	6.17900 *	4.4 % *	
2 *	6.00000 *	6.00000 *	.00000 *	0 % *	< N.V.
3 *	5.53000 *	5.87000 *	5.70000 *	4.2 % *	
4 *	1.01000 *	1.03000 *	1.02000 *	1.4 % *	
5 *			.00000 *	0 % *	- N.V.
6 *			.00000 *	0 % *	- N.V.
7 *			.00000 *	0 % *	- N.V.
8 *			.00000 *	0 % *	- N.V.
9 *			.00000 *	0 % *	- N.V.
10 *			.00000 *	0 % *	- N.V.
11 *			.00000 *	0 % *	- N.V.
12 *	2.84000 *	2.77000 *	2.80500 *	1.8 % *	
13 *	3.20000 *	3.20000 *	3.20000 *	.0 % *	
14 *			.00000 *	0 % *	- N.V.
15 *			.00000 *	0 % *	- N.V.
16 *	3.00000 *	3.00000 *	3.00000 *	.0 % *	
17 *	3.00000 *	3.00000 *	3.00000 *	.0 % *	
18 *	3.20000 *	3.20000 *	3.20000 *	.0 % *	
19 *	4.00000 *	4.00000 *	4.00000 *	.0 % *	
20 *	3.10000 *	1.80000 *	2.45000 *	37.5 % *	
21 *	4.50000 *	1.00000 *	.00000 *	0 % *	
22 *	3.70000 *	2.40000 *	3.05000 *	30.1 % *	
23 *			.00000 *	0 % *	- N.V.
24 *			.00000 *	0 % *	- N.V.
25 *	4.00000 *	4.00000 *	4.00000 *	.0 % *	
26 *			.00000 *	0 % *	- N.V.
27 *	2.50000 *	2.50000 *	.00000 *	0 % *	< N.V.
28 *	10.00000 *	10.00000 *	.00000 *	0 % *	< N.V.
29 *	2.80000 *	3.00000 *	2.90000 *	4.9 % *	



Analysis

Kolmogorov-Smirnov test on assuming a Normal distribution. 1 % unreliability;

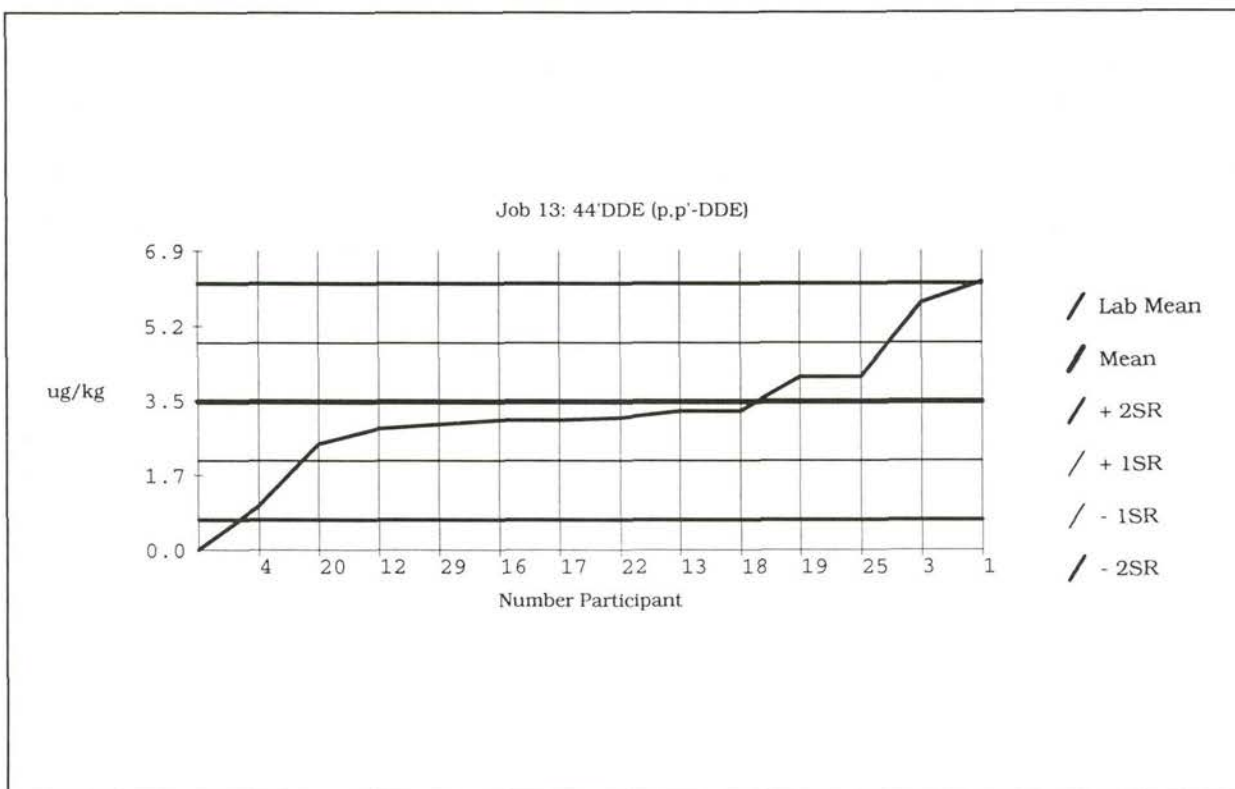
13 laboratory observations

Maximum absolute difference from Normal distribution: 0.25981. Critical value: 0.43200. KS-test passed

No outliers found

Summary

1. Eliminations due to
 - 1.1 Repeatability = 0
 - 1.2 Reproducibility = 0
 - 1.3 Manual rejected = 0
2. General Mean = 3.42338
3. Repeatability
 - 3.1 Standard deviation $S_r = .37672$
 - 3.2 Coefficient of variation = 11 %
4. Reproducibility
 - 4.1 Standard deviation $S_R = 1.36231$
 - 4.2 Coefficient of variation = 40 %



Job Classification

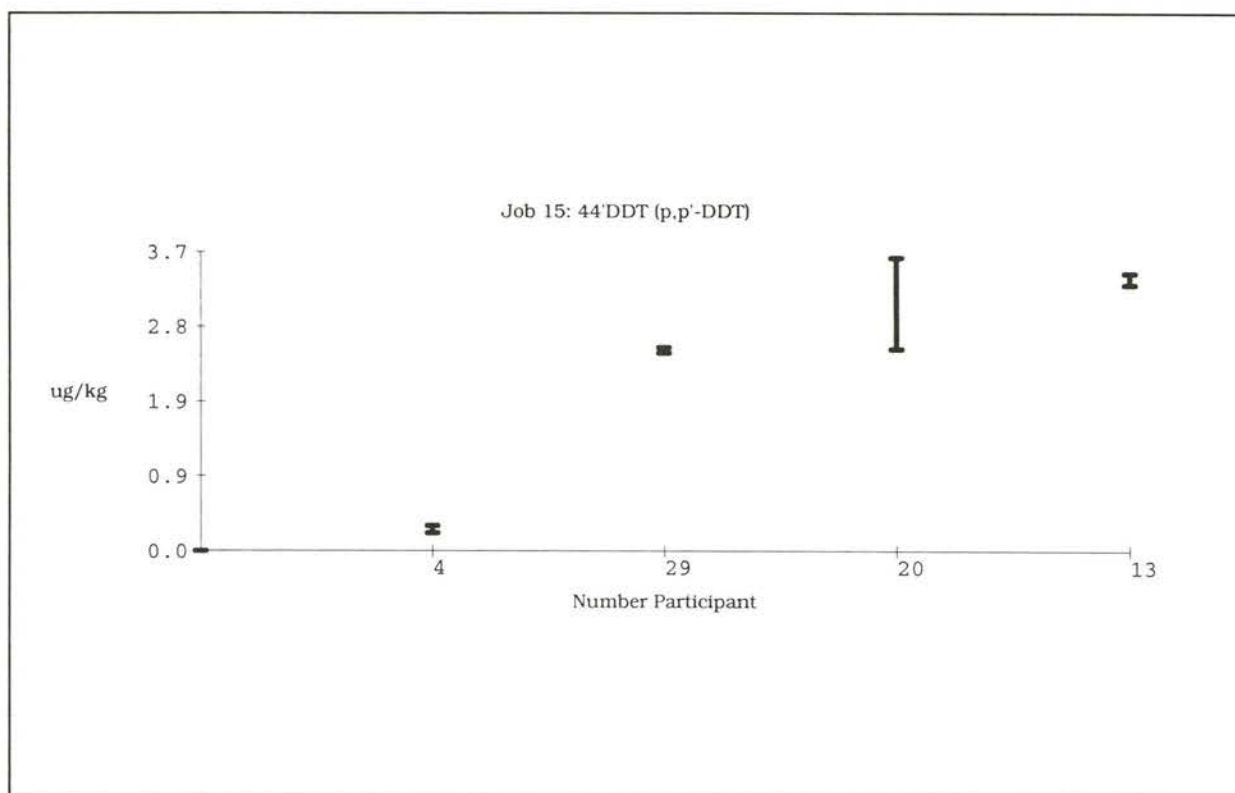
Lab *	Mean *	Clas *	Ext *	Clean *	Det *	Procedure *	
7 *	.000000	G	* ?	* ?	* ?	* ?	*
24 *	.000000	G	* -	* -	* -	* -	*
8 *	.000000	G	* ?	* ?	* ?	* ?	*
14 *	.000000	G	* -	* -	* -	* -	*
2 *	.000000	G	* -	* -	* -	* -	*
9 *	.000000	G	* -	* -	* -	* -	*
15 *	.000000	G	* ?	* ?	* ?	* ?	*
26 *	.000000	G	* -	* -	* -	* -	*
10 *	.000000	G	* -	* -	* -	* -	*
21 *	.000000	G	* LP	* -	* GSM	* HUIS	*
27 *	.000000	G	* -	* -	* -	* HUIS	*
11 *	.000000	G	* -	* -	* -	* -	*
28 *	.000000	G	* -	* -	* -	* NEN 5734	*
5 *	.000000	G	* -	* -	* -	* -	*
23 *	.000000	G	* -	* -	* -	* -	*
6 *	.000000	G	* -	* -	* -	* -	*
4 *	1.020000	B	* -	* -	* -	* -	*
20 *	2.450000	A	* LE	* SC	* GDE	* A-O-NEN 5718	*
12 *	2.805000	A	* Z	* Z	* GDE	* HUIS	*
29 *	2.900000	A	* LE	* LLSC	* GDE	* HUIS	*
16 *	3.000000	A	* LE	* SC	* GDE	* HUIS	*
17 *	3.000000	A	* LE	* SC	* GDE	* HUIS	*
22 *	3.050000	A	* -	* -	* -	* -	*
13 *	3.200000	A	* LA	* S	* GDE	* NEN 5718/6406	*
18 *	3.200000	A	* LA	* C	* GDE	* HUIS	*
19 *	4.000000	A	* LE	* C	* GDE	* G-NEN 5734	*
25 *	4.000000	A	* LH	* -	* GDE	* NEN 5734	*
3 *	5.700000	B	* -	* -	* GDE	* NEN 5734	*
1 *	6.179000	C	* -	* -	* -	* -	*

General Mean = 3.42338
Between lab standard deviation SL = 1.30919
Coefficient of variation = 38 %
Number of laboratories = 13

A: Number of laboratories with	Z	-scores between 0 and 1	; 10
B: Number of laboratories with	Z	-scores between 1 and 2	; 2
C: Number of laboratories with	Z	-scores between 2 and 3	; 1
D: Number of laboratories with	Z	-scores larger than 3	; 0

Job 15 : 99090, 99094
 44'DDT (p,p'-DDT), 44DDT in ug/kg Sediment (Lake)
 Lab * X1 * X2 * Average * %Variance *

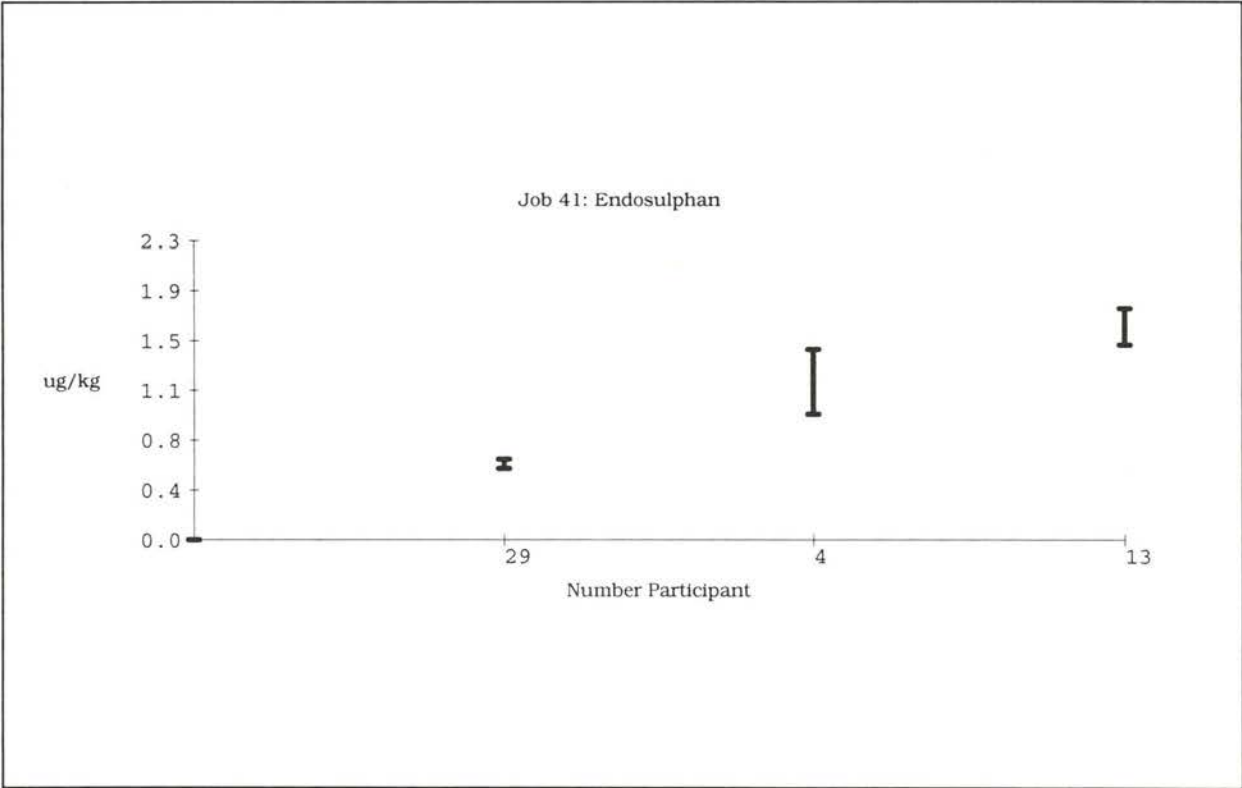
1 *	1.00000 *	1.00000 *	.00000 *	0 % *	< N.V.
2 *	30.00000 *	25.00000 *	27.50000 *	12.9 % *	
3 *	15.00000 *	10.00000 *	.00000 *	0 % *	< N.V.
4 *	.15900 *	.28900 *	.22400 *	41.0 % *	
5 *			.00000 *	0 % *	- N.V.
6 *			.00000 *	0 % *	- N.V.
7 *			.00000 *	0 % *	- N.V.
8 *			.00000 *	0 % *	- N.V.
9 *			.00000 *	0 % *	- N.V.
10 *			.00000 *	0 % *	- N.V.
11 *			.00000 *	0 % *	- N.V.
12 *	1.00000 *	1.00000 *	.00000 *	0 % *	< N.V.
13 *	3.20000 *	3.40000 *	3.30000 *	4.3 % *	
14 *			.00000 *	0 % *	- N.V.
15 *			.00000 *	0 % *	- N.V.
16 *	5.00000 *	5.00000 *	.00000 *	0 % *	< N.V.
17 *	5.00000 *	5.00000 *	.00000 *	0 % *	< N.V.
18 *	.30000 *	.30000 *	.00000 *	0 % *	< N.V.
19 *	1.00000 *	1.00000 *	.00000 *	0 % *	< N.V.
20 *	3.30000 *	1.70000 *	2.50000 *	45.3 % *	
21 *	1.00000 *	1.00000 *	.00000 *	0 % *	< N.V.
22 *	5.00000 *	5.00000 *	.00000 *	0 % *	< N.V.
23 *			.00000 *	0 % *	- N.V.
24 *			.00000 *	0 % *	- N.V.
25 *	20.00000 *	12.00000 *	.00000 *	0 % *	< N.V.
26 *			.00000 *	0 % *	- N.V.
27 *	2.50000 *	2.50000 *	.00000 *	0 % *	< N.V.
28 *	10.00000 *	10.00000 *	.00000 *	0 % *	< N.V.
29 *	2.40000 *	2.50000 *	2.45000 *	2.9 % *	



Job Classification

Lab *	Mean *	Clas *	Ext *	Clean *	Det *	Procedure *	
7 *	.00000	N	?	?	?	?	*
19 *	.00000	N	LE	C	GDE	G-NEN 5734	*
24 *	.00000	N	-	-	-	-	*
1 *	.00000	N	-	-	-	-	*
8 *	.00000	N	?	?	?	?	*
14 *	.00000	N	-	-	-	-	*
25 *	.00000	N	LH	-	GDE	NEN 5734	*
9 *	.00000	N	-	-	-	-	*
15 *	.00000	N	?	?	?	?	*
26 *	.00000	N	-	-	-	-	*
3 *	.00000	N	-	-	GDE	NEN 5734	*
10 *	.00000	N	-	-	-	-	*
16 *	.00000	N	LE	SC	GDE	HUIS	*
21 *	.00000	N	LP	-	GSM	HUIS	*
27 *	.00000	N	-	-	-	HUIS	*
11 *	.00000	N	-	-	-	-	*
17 *	.00000	N	LE	SC	GDE	HUIS	*
22 *	.00000	N	-	-	-	-	*
28 *	.00000	N	-	-	-	NEN 5734	*
5 *	.00000	N	-	-	-	-	*
12 *	.00000	N	Z	Z	GDE	HUIS	*
18 *	.00000	N	LA	C	GDE	HUIS	*
23 *	.00000	N	-	-	-	-	*
6 *	.00000	N	-	-	-	-	*
4 *	.22400	N	-	-	-	-	*
29 *	2.45000	N	LE	LLSC	GDE	HUIS	*
20 *	2.50000	N	LE	SC	GDE	A-O-NEN 5718	*
13 *	3.30000	N	LA	S	GDE	NEN 5718/6406	*
2 *	27.50000	N	-	-	-	-	*

Job 41 : 99090, 99094						
Endosulphan, Endosulphan in ug/kg Sediment (Lake)						
Lab *	X1 *	X2 *	Average *	%Variance *		
1 *	1.00000 *	1.00000 *	.00000 *	0 % *	< N.V.	
2 *	49.00000 *	46.00000 *	.00000 *	0 % *	< N.V.	
3 *	1.00000 *	5.00000 *	.00000 *	0 % *	< N.V.	
4 *	.61400 *	1.32000 *	.96700 *	51.6 % *		
5 *			.00000 *	0 % *	- N.V.	
6 *			.00000 *	0 % *	- N.V.	
7 *			.00000 *	0 % *	- N.V.	
8 *			.00000 *	0 % *	- N.V.	
9 *			.00000 *	0 % *	- N.V.	
10 *			.00000 *	0 % *	- N.V.	
11 *			.00000 *	0 % *	- N.V.	
12 *			.00000 *	0 % *	- N.V.	
13 *	1.30000 *	1.70000 *	1.50000 *	18.9 % *		
14 *			.00000 *	0 % *	- N.V.	
15 *			.00000 *	0 % *	- N.V.	
16 *	5.00000 *	5.00000 *	.00000 *	0 % *	< N.V.	
17 *	2.00000 *	2.00000 *	.00000 *	0 % *	< N.V.	
18 *	.30000 *	.30000 *	.00000 *	0 % *	< N.V.	
19 *	1.00000 *	1.00000 *	.00000 *	0 % *	< N.V.	
20 *	.60000 *	.60000 *	.00000 *	0 % *	< N.V.	
21 *	1.00000 *	1.00000 *	.00000 *	0 % *	< N.V.	
22 *	1.00000 *	1.00000 *	.00000 *	0 % *	< N.V.	
23 *			.00000 *	0 % *	- N.V.	
24 *			.00000 *	0 % *	- N.V.	
25 *	1.00000 *	1.00000 *	.00000 *	0 % *	< N.V.	
26 *			.00000 *	0 % *	- N.V.	
27 *	5.00000 *	5.00000 *	.00000 *	0 % *	< N.V.	
28 *	10.00000 *	10.00000 *	.00000 *	0 % *	< N.V.	
29 *	.50000 *	.60000 *	.55000 *	12.9 % *		



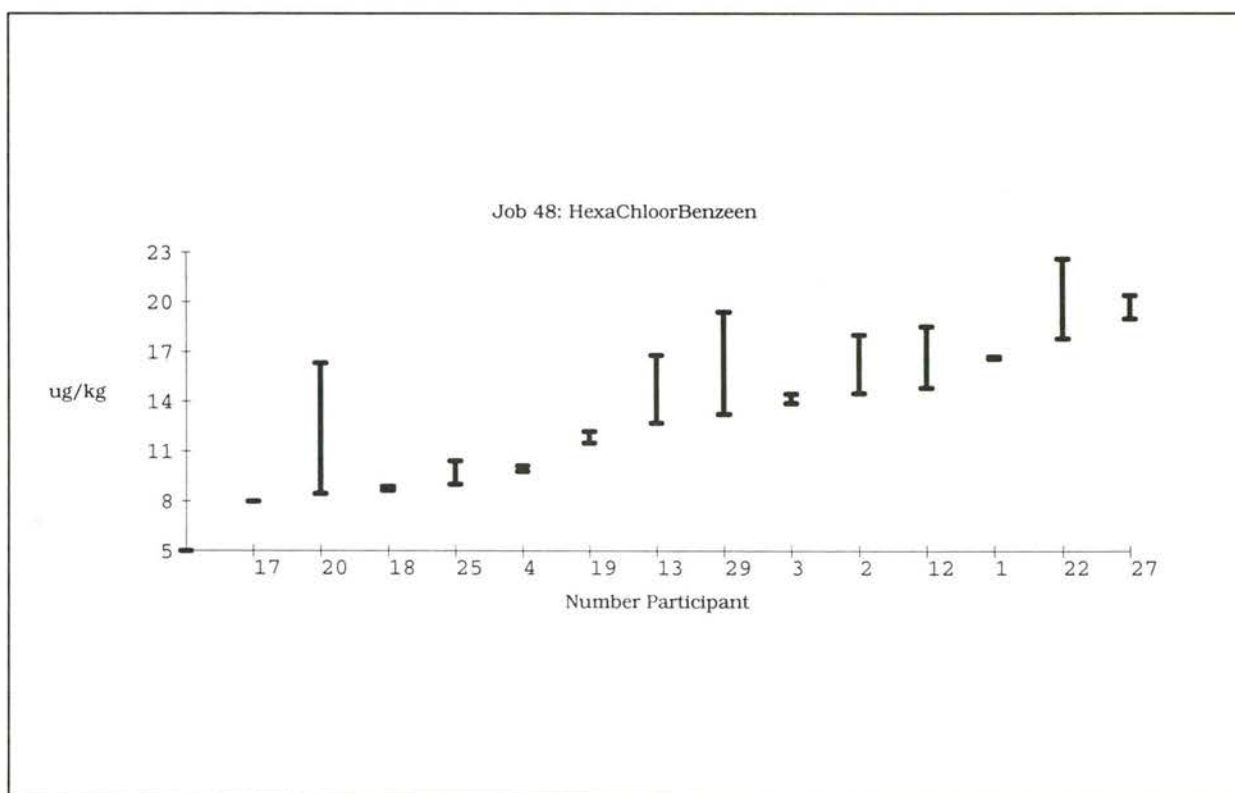
Job Classification

Lab *	Mean *	Clas *	Ext *	Clean *	Det *	Procedure *	*
7 *	.00000	N	?	?	?	?	*
19 *	.00000	N	LE	C	GDE	G-NEN 5734	*
24 *	.00000	N	-	-	-	-	*
1 *	.00000	N	S	-	GSM	HUIS	*
8 *	.00000	N	?	?	?	?	*
14 *	.00000	N	-	-	-	-	*
25 *	.00000	N	LH	-	GDE	NEN 5734	*
2 *	.00000	N	-	-	-	-	*
9 *	.00000	N	-	-	-	-	*
15 *	.00000	N	?	?	?	?	*
20 *	.00000	N	LE	SC	GDE	A-O-NEN 5718	*
26 *	.00000	N	-	-	-	-	*
3 *	.00000	N	-	-	GDE	NEN 5734	*
10 *	.00000	N	-	-	-	-	*
16 *	.00000	N	LE	SC	GDE	HUIS	*
21 *	.00000	N	LP	-	GSM	HUIS	*
27 *	.00000	N	-	-	-	HUIS	*
11 *	.00000	N	-	-	-	-	*
17 *	.00000	N	LE	SC	GDE	HUIS	*
22 *	.00000	N	-	-	-	-	*
28 *	.00000	N	-	-	-	NEN 5734	*
5 *	.00000	N	-	-	-	-	*
12 *	.00000	N	-	-	-	-	*
18 *	.00000	N	LA	C	GDE	HUIS	*
23 *	.00000	N	-	-	-	-	*
6 *	.00000	N	-	-	-	-	*
29 *	.55000	N	LE	LLSC	GDE	HUIS	*
4 *	.96700	N	-	-	-	-	*
13 *	1.50000	N	LA	S	GDE	NEN 5718/6406	*

Job 48 : 99090, 99094

HexaChloorBenzeen, HCB in ug/kg Sediment (Lake)

Lab *	X1 *	X2 *	Average *	%Variance *	
1 *	16.68000	16.48000	16.58000	.9 %	*
2 *	17.00000	12.00000	14.50000	24.4 %	*
3 *	14.30000	13.50000	13.90000	4.1 %	*
4 *	10.03000	9.57000	9.80000	3.3 %	*
5 *			.00000	0 %	* - N.V.
6 *			.00000	0 %	* - N.V.
7 *			.00000	0 %	* - N.V.
8 *			.00000	0 %	* - N.V.
9 *			.00000	0 %	* - N.V.
10 *			.00000	0 %	* - N.V.
11 *			.00000	0 %	* - N.V.
12 *	17.46000	12.21000	14.83500	25.0 %	*
13 *	15.60000	9.80000	12.70000	32.3 %	*
14 *			.00000	0 %	* - N.V.
15 *			.00000	0 %	* - N.V.
16 *	34.00000	33.00000	33.50000	2.1 %	*
17 *	8.00000	8.00000	8.00000	.0 %	*
18 *	8.50000	8.80000	8.65000	2.5 %	*
19 *	11.00000	12.00000	11.50000	6.1 %	*
20 *	14.00000	2.90000	8.45000	92.9 %	*
21 *			.00000	0 %	* - N.V.
22 *	21.20000	14.40000	17.80000	27.0 %	*
23 *			.00000	0 %	* - N.V.
24 *			.00000	0 %	* - N.V.
25 *	8.00000	10.00000	9.00000	15.7 %	*
26 *			.00000	0 %	* - N.V.
27 *	20.00000	18.00000	19.00000	7.4 %	*
28 *	17.00000	55.00000	36.00000	74.6 %	*
29 *	8.90000	17.60000	13.25000	46.4 %	*



Analysis

Kolmogorov-Smirnov test on assuming a Normal distribution. 1 % unreliability;

16 laboratory observations

Maximum absolute difference from Normal distribution: 0.21939. Critical value: 0.39200. KS-test passed

COCHRAN; 1 % ; replicas: 2

Cyc	Lab	Average	Variance	Result	Value
1	28	36.00000	26.87006	.80836	.55260

GRUBBS; 1 % ; replicas: 2

Cyc	Lab	D/S	Average	Variance	Result	Value
1	16	S	33.50000	.70711	3.03085	2.80600

Summary

1. Eliminations due to
 - 1.1 Repeatability = 1
 - 1.2 Reproducibility = 1
 - 1.3 Manual rejected = 0
2. General Mean = 12.71179
3. Repeatability
 - 3.1 Standard deviation $S_r = 3.49144$
 - 3.2 Coefficient of variation = 27 %
4. Reproducibility
 - 4.1 Standard deviation $S_R = 4.38199$
 - 4.2 Coefficient of variation = 34 %



Job Classification

Lab	*	Mean	*	Clas	*	Ext	*	Clean	*	Det	*	Procedure	*	
7	*	.00000	*	G	*	?	*	?	*	?	*	?	*	*
24	*	.00000	*	G	*	-	*	-	*	-	*	-	*	*
8	*	.00000	*	G	*	?	*	?	*	?	*	?	*	*
14	*	.00000	*	G	*	-	*	-	*	-	*	-	*	*
9	*	.00000	*	G	*	-	*	-	*	-	*	-	*	*
15	*	.00000	*	G	*	?	*	?	*	?	*	?	*	*
26	*	.00000	*	G	*	-	*	-	*	-	*	-	*	*
10	*	.00000	*	G	*	-	*	-	*	-	*	-	*	*
21	*	.00000	*	G	*	-	*	-	*	-	*	-	*	*
11	*	.00000	*	G	*	-	*	-	*	-	*	-	*	*
5	*	.00000	*	G	*	-	*	-	*	-	*	-	*	*
23	*	.00000	*	G	*	-	*	-	*	-	*	-	*	*
6	*	.00000	*	G	*	-	*	-	*	-	*	-	*	*
17	*	8.00000	*	B	*	LE	*	SC	*	GDE	*	HUIS	*	*
20	*	8.45000	*	B	*	LE	*	SC	*	GDE	*	A-O-NEN 5718	*	*
18	*	8.65000	*	B	*	LA	*	C	*	GDE	*	HUIS	*	*
25	*	9.00000	*	B	*	LH	*	-	*	GDE	*	NEN 5734	*	*
4	*	9.80000	*	A	*	-	*	-	*	-	*	-	*	*
19	*	11.50000	*	A	*	LE	*	C	*	GDE	*	G-NEN 5734	*	*
13	*	12.70000	*	A	*	LA	*	S	*	GDE	*	NEN 5718/6406	*	*
29	*	13.25000	*	A	*	LE	*	LLSC	*	GDE	*	HUIS	*	*
3	*	13.90000	*	A	*	-	*	-	*	GDE	*	NEN 5734	*	*
2	*	14.50000	*	A	*	-	*	-	*	-	*	-	*	*
12	*	14.83500	*	A	*	Z	*	Z	*	GDE	*	HUIS	*	*
1	*	16.58000	*	B	*	-	*	-	*	-	*	-	*	*
22	*	17.80000	*	B	*	-	*	-	*	-	*	-	*	*
27	*	19.00000	*	B	*	-	*	-	*	-	*	HUIS	*	*
16	*	33.50000	*	R	*	LE	*	SC	*	GDE	*	HUIS	*	*
28	*	36.00000	*	W	*	-	*	-	*	-	*	NEN 5734	*	*

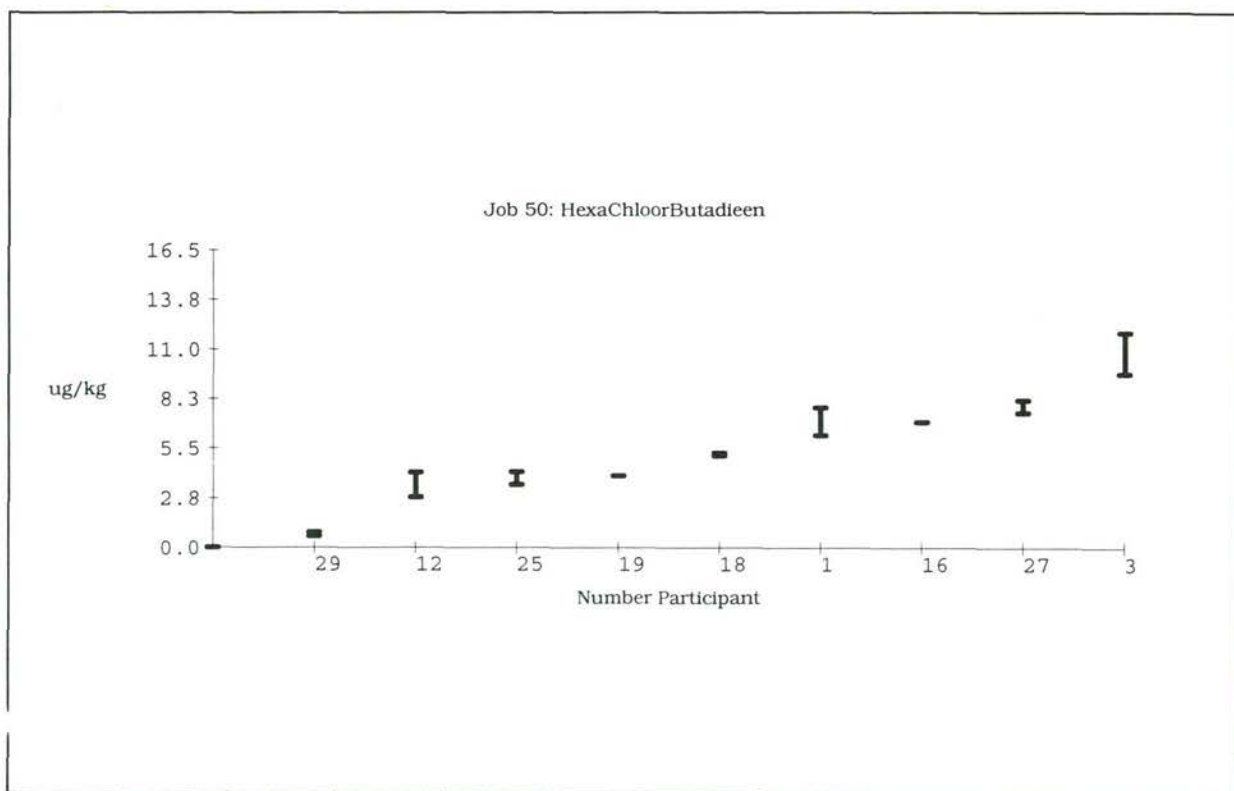
General Mean = 12.71179
Between lab standard deviation SL = 2.64796
Coefficient of variation = 21 %
Number of laboratories = 14

A: Number of laboratories with |Z| -scores between 0 and 1 ; 7
B: Number of laboratories with |Z| -scores between 1 and 2 ; 7
C: Number of laboratories with |Z| -scores between 2 and 3 ; 0
D: Number of laboratories with |Z| -scores larger than 3 ; 0

Job 50 : 99090, 99094

HexaChloorButadien, HCBd in ug/kg Sediment (Lake)

Lab *	X1 *	X2 *	Average *	%Variance *	
1 *	5.14300	7.33500	6.23900	24.8 %	*
2 *			.00000	0 %	* - N.V.
3 *	11.30000	8.07000	9.68500	23.6 %	*
4 *			.00000	0 %	* - N.V.
5 *			.00000	0 %	* - N.V.
6 *			.00000	0 %	* - N.V.
7 *			.00000	0 %	* - N.V.
8 *			.00000	0 %	* - N.V.
9 *			.00000	0 %	* - N.V.
10 *			.00000	0 %	* - N.V.
11 *			.00000	0 %	* - N.V.
12 *	3.77000	1.83000	2.80000	49.0 %	*
13 *			.00000	0 %	* - N.V.
14 *			.00000	0 %	* - N.V.
15 *			.00000	0 %	* - N.V.
16 *	7.00000	7.00000	7.00000	.0 %	*
17 *			.00000	0 %	* - N.V.
18 *	5.00000	5.20000	5.10000	2.8 %	*
19 *	4.00000	4.00000	4.00000	.0 %	*
20 *			.00000	0 %	* - N.V.
21 *	1.00000	1.00000	.00000	0 %	* < N.V.
22 *			.00000	0 %	* - N.V.
23 *			.00000	0 %	* - N.V.
24 *			.00000	0 %	* - N.V.
25 *	3.00000	4.00000	3.50000	20.2 %	*
26 *			.00000	0 %	* - N.V.
27 *	7.00000	8.00000	7.50000	9.4 %	*
28 *			.00000	0 %	* - N.V.
29 *	.50000	.80000	.65000	32.6 %	*



Analysis

Kolmogorov-Smirnov test on assuming a Normal distribution. 1 % unreliability;

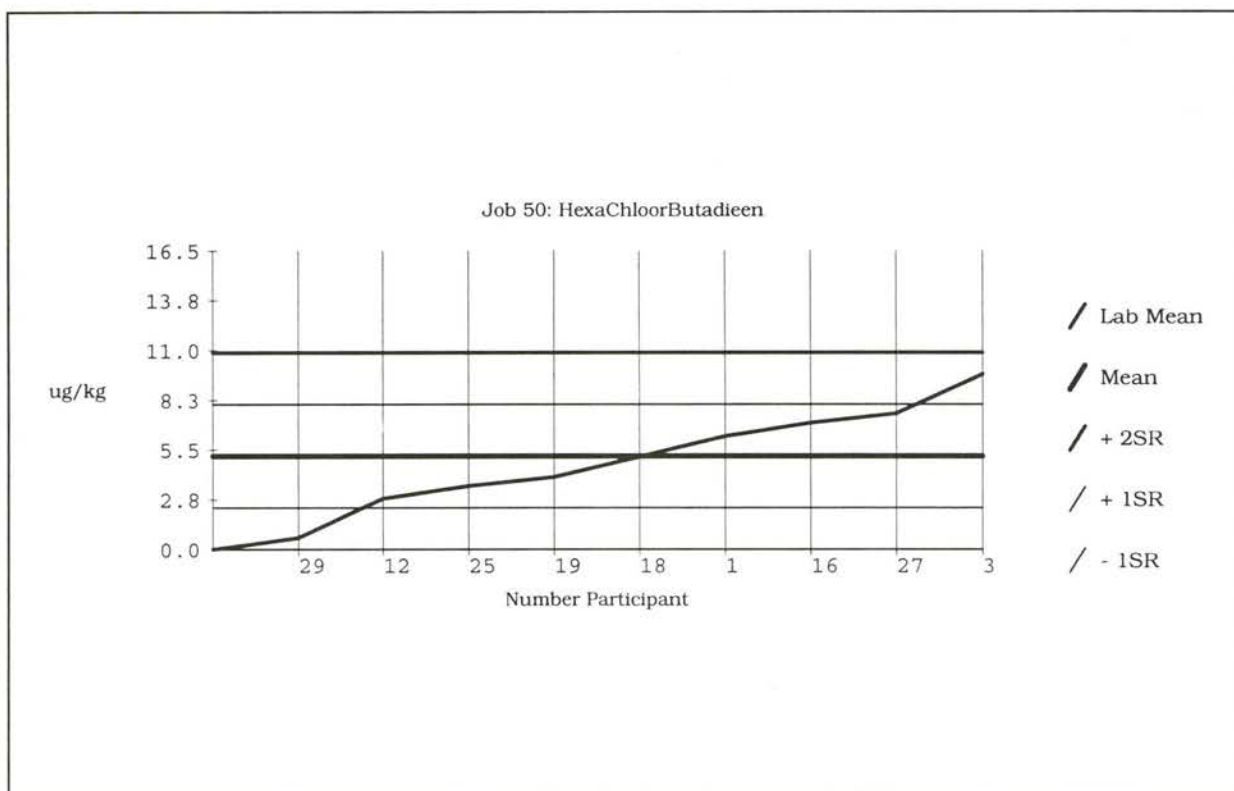
9 laboratory observations

Maximum absolute difference from Normal distribution: 0.10720. Critical value: 0.51300. KS-test passed

No outliers found

Summary

1. Eliminations due to
 - 1.1 Repeatability = 0
 - 1.2 Reproducibility = 0
 - 1.3 Manual rejected = 0
2. General Mean = 5.16378
3. Repeatability
 - 3.1 Standard deviation $S_r = 1.08350$
 - 3.2 Coefficient of variation = 21 %
4. Reproducibility
 - 4.1 Standard deviation $S_R = 2.85507$
 - 4.2 Coefficient of variation = 55 %



Job Classification

Lab *	Mean *	Clas *	Ext *	Clean *	Det *	Procedure *	
7 *	.00000 *	G *	? *	? *	? *	? *	*
13 *	.00000 *	G *	- *	- *	- *	- *	*
24 *	.00000 *	G *	- *	- *	- *	- *	*
8 *	.00000 *	G *	? *	? *	? *	? *	*
14 *	.00000 *	G *	- *	- *	- *	- *	*
2 *	.00000 *	G *	- *	- *	- *	- *	*
9 *	.00000 *	G *	- *	- *	- *	- *	*
15 *	.00000 *	G *	? *	? *	? *	? *	*
20 *	.00000 *	G *	- *	- *	- *	- *	*
26 *	.00000 *	G *	- *	- *	- *	- *	*
10 *	.00000 *	G *	- *	- *	- *	- *	*
21 *	.00000 *	G *	LP *	- *	GSM *	HUIS *	*
4 *	.00000 *	G *	- *	- *	- *	- *	*
11 *	.00000 *	G *	- *	- *	- *	- *	*
17 *	.00000 *	G *	LE *	SC *	GDE *	HUIS *	*
22 *	.00000 *	G *	- *	- *	- *	- *	*
28 *	.00000 *	G *	- *	- *	- *	- *	*
5 *	.00000 *	G *	- *	- *	- *	- *	*
23 *	.00000 *	G *	- *	- *	- *	- *	*
6 *	.00000 *	G *	- *	- *	- *	- *	*
29 *	.65000 *	B *	LE *	LLSC *	GDE *	HUIS *	*
12 *	2.80000 *	A *	Z *	Z *	GDE *	HUIS *	*
25 *	3.50000 *	A *	LH *	- *	GDE *	NEN 5734 *	*
19 *	4.00000 *	A *	LE *	C *	GDE *	G-NEN 5734 *	*
18 *	5.10000 *	A *	LA *	C *	GDE *	HUIS *	*
1 *	6.23900 *	A *	- *	- *	- *	- *	*
16 *	7.00000 *	A *	LE *	SC *	GDE *	HUIS *	*
27 *	7.50000 *	A *	- *	- *	- *	HUIS *	*
3 *	9.68500 *	B *	- *	- *	GDE *	NEN 5734 *	*

General Mean = 5.16378
Between lab standard deviation SL = 2.64149
Coefficient of variation = 51 %
Number of laboratories = 9

A: Number of laboratories with	Z	-scores between 0 and 1	;	7
B: Number of laboratories with	Z	-scores between 1 and 2	;	2
C: Number of laboratories with	Z	-scores between 2 and 3	;	0
D: Number of laboratories with	Z	-scores larger than 3	;	0

Job 52 : 99090, 99094

HexaChloorEthaan, HCEa in ug/kg Sediment (Lake)

Lab *	X1 *	X2 *	Average *	%Variance *	
1 *			.00000 *	0 % *	- N.V.
2 *			.00000 *	0 % *	- N.V.
3 *	100.00000 *	100.00000 *	.00000 *	0 % *	< N.V.
4 *			.00000 *	0 % *	- N.V.
5 *			.00000 *	0 % *	- N.V.
6 *			.00000 *	0 % *	- N.V.
7 *			.00000 *	0 % *	- N.V.
8 *			.00000 *	0 % *	- N.V.
9 *			.00000 *	0 % *	- N.V.
10 *			.00000 *	0 % *	- N.V.
11 *			.00000 *	0 % *	- N.V.
12 *			.00000 *	0 % *	- N.V.
13 *			.00000 *	0 % *	- N.V.
14 *			.00000 *	0 % *	- N.V.
15 *			.00000 *	0 % *	- N.V.
16 *			.00000 *	0 % *	- N.V.
17 *			.00000 *	0 % *	- N.V.
18 *			.00000 *	0 % *	- N.V.
19 *			.00000 *	0 % *	- N.V.
20 *			.00000 *	0 % *	- N.V.
21 *	1.00000 *	1.00000 *	.00000 *	0 % *	< N.V.
22 *			.00000 *	0 % *	- N.V.
23 *			.00000 *	0 % *	- N.V.
24 *			.00000 *	0 % *	- N.V.
25 *	1.00000 *	1.00000 *	.00000 *	0 % *	< N.V.
26 *			.00000 *	0 % *	- N.V.
27 *			.00000 *	0 % *	- N.V.
28 *	20.00000 *	20.00000 *	.00000 *	0 % *	< N.V.
29 *			.00000 *	0 % *	

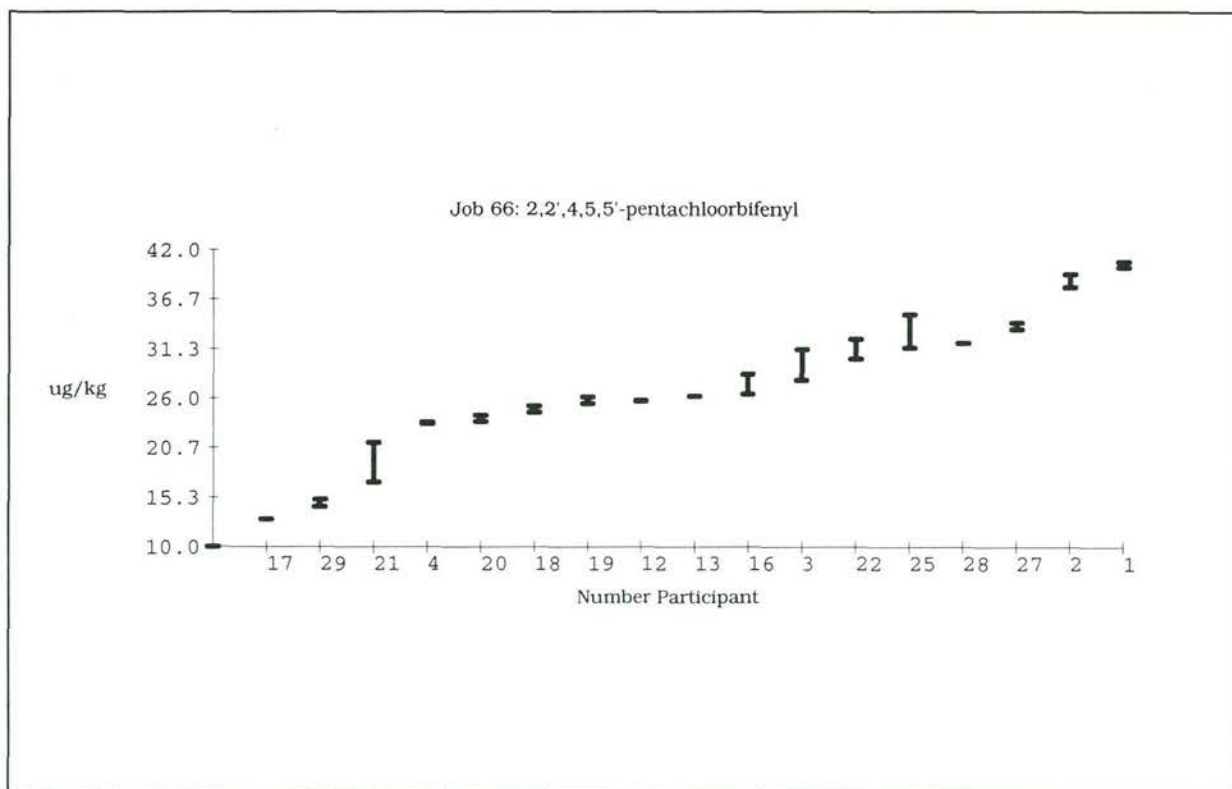
Job Classification

Lab *	Mean *	Clas *	Ext *	Clean *	Det *	Procedure *	
7 *	.00000 *	N *	? *	? *	? *	? *	*
13 *	.00000 *	N *	- *	- *	- *	- *	*
19 *	.00000 *	N *	- *	- *	- *	- *	*
24 *	.00000 *	N *	- *	- *	- *	- *	*
1 *	.00000 *	N *	- *	- *	- *	- *	*
8 *	.00000 *	N *	? *	? *	? *	? *	*
14 *	.00000 *	N *	- *	- *	- *	- *	*
25 *	.00000 *	N *	LH *	- *	GDE *	NEN 5734	*
2 *	.00000 *	N *	- *	- *	- *	- *	*
9 *	.00000 *	N *	- *	- *	- *	- *	*
15 *	.00000 *	N *	? *	? *	? *	? *	*
20 *	.00000 *	N *	- *	- *	- *	- *	*
26 *	.00000 *	N *	- *	- *	- *	- *	*
3 *	.00000 *	N *	- *	- *	GDE *	NEN 5734	*
10 *	.00000 *	N *	- *	- *	- *	- *	*
16 *	.00000 *	N *	- *	- *	- *	- *	*
21 *	.00000 *	N *	LP *	- *	GSM *	HUIS	*
27 *	.00000 *	N *	- *	- *	- *	- *	*
4 *	.00000 *	N *	- *	- *	- *	- *	*
11 *	.00000 *	N *	- *	- *	- *	- *	*
17 *	.00000 *	N *	- *	- *	- *	- *	*
22 *	.00000 *	N *	- *	- *	- *	- *	*
28 *	.00000 *	N *	- *	- *	- *	NEN 5734	*
5 *	.00000 *	N *	- *	- *	- *	- *	*
12 *	.00000 *	N *	- *	- *	- *	- *	*
18 *	.00000 *	N *	- *	- *	- *	- *	*
23 *	.00000 *	N *	- *	- *	- *	- *	*
29 *	.00000 *	N *	- *	- *	- *	- *	*
6 *	.00000 *	N *	- *	- *	- *	- *	*

Job 66 : 99090, 99094

2,2',4,5,5'-pentachloorbifenyl, PCB101 in ug/kg Sediment (Lake)

Lab *	X1 *	X2 *	Average *	%Variance *
1 *	39.75000	40.61000	40.18000	1.5 %
2 *	39.00000	37.00000	38.00000	3.7 %
3 *	30.35000	25.70000	28.02500	11.7 %
4 *	23.40000	23.20000	23.30000	.6 %
5 *			.00000	0 %
6 *			.00000	0 %
7 *			.00000	0 %
8 *			.00000	0 %
9 *			.00000	0 %
10 *			.00000	0 %
11 *			.00000	0 %
12 *	25.81000	25.68000	25.74500	.4 %
13 *	26.30000	26.20000	26.25000	.3 %
14 *			.00000	0 %
15 *			.00000	0 %
16 *	28.00000	25.00000	26.50000	8.0 %
17 *	13.00000	13.00000	13.00000	.0 %
18 *	24.00000	25.00000	24.50000	2.9 %
19 *	25.00000	26.00000	25.50000	2.8 %
20 *	23.00000	24.00000	23.50000	3.0 %
21 *	20.00000	14.00000	17.00000	25.0 %
22 *	31.80000	28.80000	30.30000	7.0 %
23 *			.00000	0 %
24 *			.00000	0 %
25 *	29.00000	34.00000	31.50000	11.2 %
26 *			.00000	0 %
27 *	34.00000	33.00000	33.50000	2.1 %
28 *	32.00000	32.00000	32.00000	.0 %
29 *	13.80000	14.90000	14.35000	5.4 %



Analysis

Kolmogorov-Smirnov test on assuming a Normal distribution. 1 % unreliability;

17 laboratory observations

Maximum absolute difference from Normal distribution: 0.09622. Critical value: 0.38100. KS-test passed

No outliers found

Summary

1. Eliminations due to

1.1 Repeatability = 0

1.2 Reproducibility = 0

1.3 Manual rejected = 0

2. General Mean = 26.65588

3. Repeatability

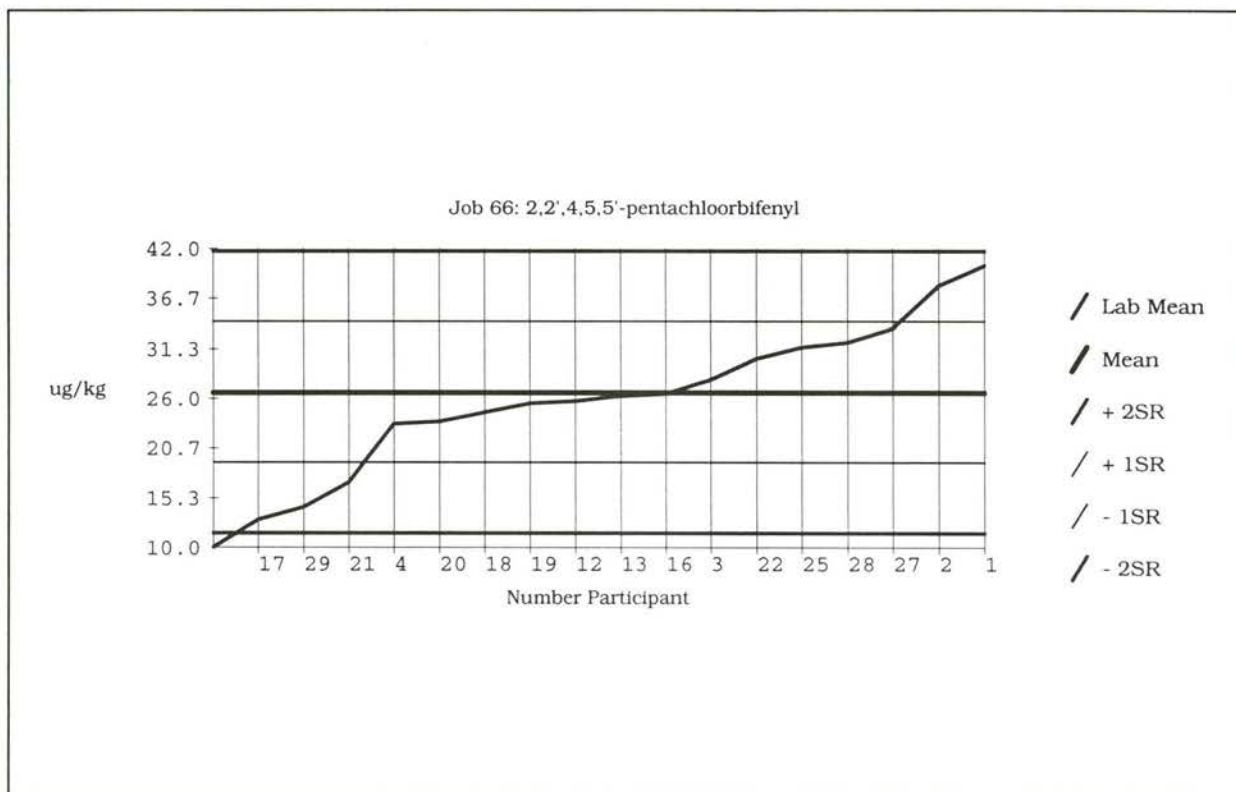
3.1 Standard deviation $S_r = 1.80391$

3.2 Coefficient of variation = 7 %

4. Reproducibility

4.1 Standard deviation $S_R = 7.54579$

4.2 Coefficient of variation = 28 %



Job Classification

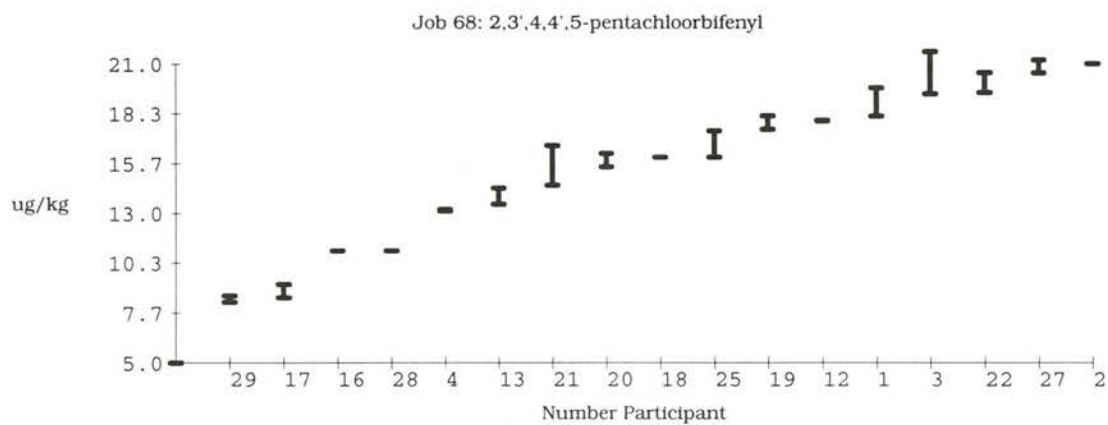
Lab *	Mean *	Clas *	Ext *	Clean *	Det *	Procedure *	
7 *	.00000 *	G *	? *	? *	? *	? *	*
24 *	.00000 *	G *	- *	- *	- *	- *	*
8 *	.00000 *	G *	? *	? *	? *	? *	*
14 *	.00000 *	G *	- *	- *	- *	- *	*
9 *	.00000 *	G *	- *	- *	- *	- *	*
15 *	.00000 *	G *	? *	? *	? *	? *	*
26 *	.00000 *	G *	- *	- *	- *	- *	*
10 *	.00000 *	G *	- *	- *	- *	- *	*
11 *	.00000 *	G *	- *	- *	- *	- *	*
5 *	.00000 *	G *	- *	- *	- *	- *	*
23 *	.00000 *	G *	- *	- *	- *	- *	*
6 *	.00000 *	G *	? *	? *	? *	? *	*
17 *	13.00000 *	B *	LE *	SC *	GDE *	HUIS *	*
29 *	14.35000 *	B *	LE *	LLSC *	GDE *	HUIS *	*
21 *	17.00000 *	B *	LP *	- *	GSM *	HUIS *	*
4 *	23.30000 *	A *	- *	- *	- *	- *	*
20 *	23.50000 *	A *	LE *	SC *	GDE *	A-O-NEN 5718 *	*
18 *	24.50000 *	A *	LA *	C *	GDE *	HUIS *	*
19 *	25.50000 *	A *	LE *	C *	GDE *	G-NEN 5734 *	*
12 *	25.74500 *	A *	Z *	Z *	GDE *	HUIS *	*
13 *	26.25000 *	A *	LA *	- *	GDE *	NEN 5718/6406 *	*
16 *	26.50000 *	A *	LE *	SC *	GDE *	HUIS *	*
3 *	28.02500 *	A *	- *	- *	GDE *	NEN 5734 *	*
22 *	30.30000 *	A *	- *	- *	- *	- *	*
25 *	31.50000 *	A *	LH *	- *	GDE *	NEN 5734 *	*
28 *	32.00000 *	A *	- *	- *	- *	- *	*
27 *	33.50000 *	A *	- *	- *	- *	HUIS *	*
2 *	38.00000 *	B *	- *	- *	- *	- *	*
1 *	40.18000 *	B *	S *	- *	GSM *	HUIS *	*

General Mean = 26.65588
Between lab standard deviation SL = 7.32699
Coefficient of variation = 27 %
Number of laboratories = 17

A: Number of laboratories with	Z	-scores between 0 and 1	; 12
B: Number of laboratories with	Z	-scores between 1 and 2	; 5
C: Number of laboratories with	Z	-scores between 2 and 3	; 0
D: Number of laboratories with	Z	-scores larger than 3	; 0

Job 68 : 99090, 99094
 2,3',4,4',5-pentachloorbifenyl, PCB118 in ug/kg Sediment (Lake)

Lab *	X1 *	X2 *	Average *	%Variance *	
1 *	17.13000	19.27000	18.20000	8.3 %	*
2 *	21.00000	21.00000	21.00000	.0 %	*
3 *	20.98000	17.79000	19.38500	11.6 %	*
4 *	13.19000	13.05000	13.12000	.8 %	*
5 *	*	*	.00000	0 %	* - N.V.
6 *	*	*	.00000	0 %	* - N.V.
7 *	*	*	.00000	0 %	* - N.V.
8 *	*	*	.00000	0 %	* - N.V.
9 *	*	*	.00000	0 %	* - N.V.
10 *	*	*	.00000	0 %	* - N.V.
11 *	*	*	.00000	0 %	* - N.V.
12 *	17.97000	17.94000	17.95500	.1 %	*
13 *	12.90000	14.10000	13.50000	6.3 %	*
14 *	*	*	.00000	0 %	* - N.V.
15 *	*	*	.00000	0 %	* - N.V.
16 *	11.00000	11.00000	11.00000	.0 %	*
17 *	8.00000	9.00000	8.50000	8.3 %	*
18 *	16.00000	16.00000	16.00000	.0 %	*
19 *	17.00000	18.00000	17.50000	4.0 %	*
20 *	15.00000	16.00000	15.50000	4.6 %	*
21 *	16.00000	13.00000	14.50000	14.6 %	*
22 *	20.20000	18.70000	19.45000	5.5 %	*
23 *	*	*	.00000	0 %	* - N.V.
24 *	*	*	.00000	0 %	* - N.V.
25 *	15.00000	17.00000	16.00000	8.8 %	*
26 *	*	*	.00000	0 %	* - N.V.
27 *	21.00000	20.00000	20.50000	3.4 %	*
28 *	11.00000	11.00000	11.00000	.0 %	*
29 *	8.00000	8.50000	8.25000	4.3 %	*



Analysis

Kolmogorov-Smirnov test on assuming a Normal distribution. 1 % unreliability;

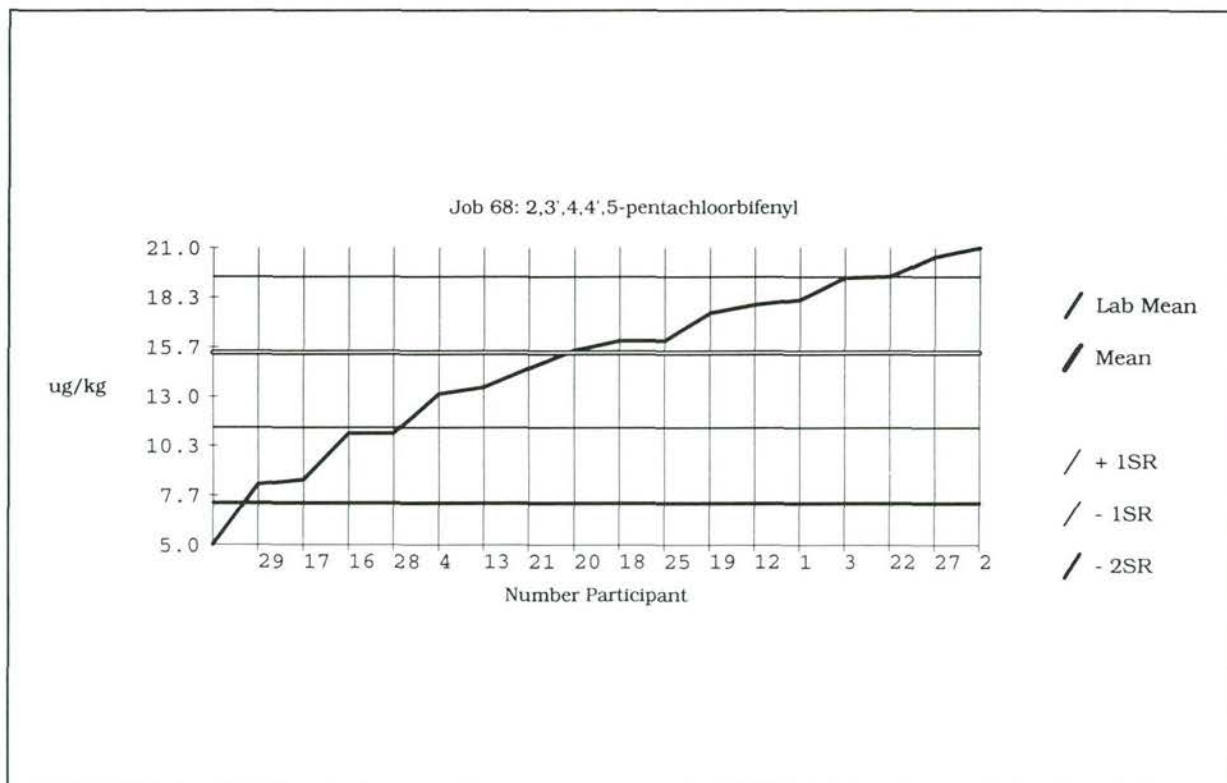
17 laboratory observations

Maximum absolute difference from Normal distribution: 0.09744. Critical value: 0.38100. KS-test passed

No outliers found

Summary

1. Eliminations due to
 - 1.1 Repeatability = 0
 - 1.2 Reproducibility = 0
 - 1.3 Manual rejected = 0
2. General Mean = 15.37412
3. Repeatability
 - 3.1 Standard deviation $S_r = 1.02493$
 - 3.2 Coefficient of variation = 7 %
4. Reproducibility
 - 4.1 Standard deviation $S_R = 4.06682$
 - 4.2 Coefficient of variation = 26 %



Job Classification

Lab *	Mean *	Clas *	Ext *	Clean *	Det *	Procedure *	
7 *	.00000	G	* ?	* ?	* ?	* ?	*
24 *	.00000	G	* -	* -	* -	* -	*
8 *	.00000	G	* ?	* ?	* ?	* ?	*
14 *	.00000	G	* -	* -	* -	* -	*
9 *	.00000	G	* -	* -	* -	* -	*
15 *	.00000	G	* ?	* ?	* ?	* ?	*
26 *	.00000	G	* -	* -	* -	* -	*
10 *	.00000	G	* -	* -	* -	* -	*
11 *	.00000	G	* -	* -	* -	* -	*
5 *	.00000	G	* -	* -	* -	* -	*
23 *	.00000	G	* -	* -	* -	* -	*
6 *	.00000	G	* ?	* ?	* ?	* ?	*
29 *	8.25000	B	* LE	* LLSC	* GDE	* HUIS	*
17 *	8.50000	B	* LE	* SC	* GDE	* HUIS	*
16 *	11.00000	B	* LE	* SC	* GDE	* HUIS	*
28 *	11.00000	B	* -	* -	* -	* -	*
4 *	13.12000	A	* -	* -	* -	* -	*
13 *	13.50000	A	* LA	* -	* GDE	* NEN 5718/6406	*
21 *	14.50000	A	* LP	* -	* GSM	* HUIS	*
20 *	15.50000	A	* LE	* SC	* GDE	* A-O-NEN 5718	*
25 *	16.00000	A	* LH	* -	* GDE	* NEN 5734	*
18 *	16.00000	A	* LA	* C	* GDE	* HUIS	*
19 *	17.50000	A	* LE	* C	* GDE	* G-NEN 5734	*
12 *	17.95500	A	* Z	* Z	* GDE	* HUIS	*
1 *	18.20000	A	* -	* -	* -	* -	*
3 *	19.38500	B	* -	* -	* GDE	* NEN 5734	*
22 *	19.45000	B	* -	* -	* -	* -	*
27 *	20.50000	B	* -	* -	* -	* HUIS	*
2 *	21.00000	B	* -	* -	* -	* -	*

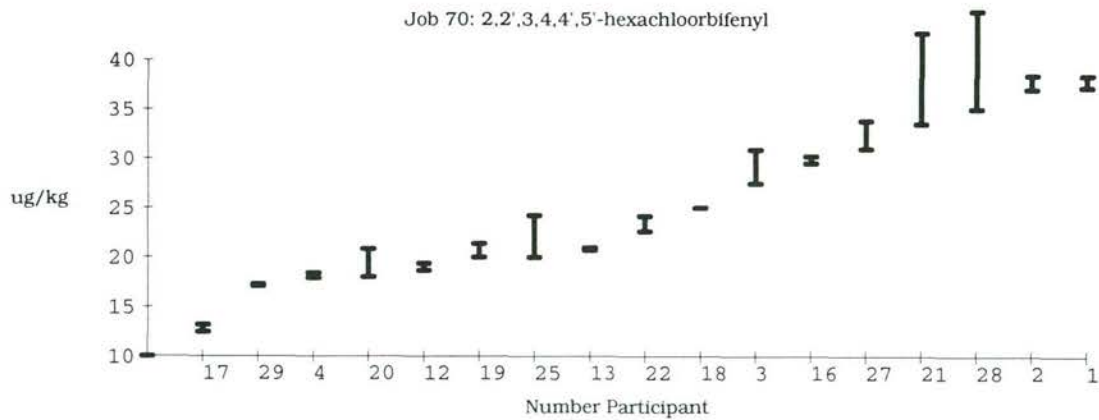
General Mean = 15.37412
Between lab standard deviation SL = 3.93555
Coefficient of variation = 26 %
Number of laboratories = 17

A: Number of laboratories with	Z	-scores between 0 and 1	; 9
B: Number of laboratories with	Z	-scores between 1 and 2	; 8
C: Number of laboratories with	Z	-scores between 2 and 3	; 0
D: Number of laboratories with	Z	-scores larger than 3	; 0

Job 70 : 99090, 99094

2,2',3,4,4',5'-hexachloorbifenyl, PCB138 in ug/kg Sediment (Lake)

Lab *	X1 *	X2 *	Average *	%Variance *	
1 *	38.09000	36.39000	37.24000	3.2 %	*
2 *	38.00000	36.00000	37.00000	3.8 %	*
3 *	29.88000	25.05000	27.46500	12.4 %	*
4 *	17.52000	18.27000	17.89500	3.0 %	*
5 *			.00000	0 %	* - N.V.
6 *			.00000	0 %	* - N.V.
7 *			.00000	0 %	* - N.V.
8 *			.00000	0 %	* - N.V.
9 *			.00000	0 %	* - N.V.
10 *			.00000	0 %	* - N.V.
11 *			.00000	0 %	* - N.V.
12 *	19.19000	18.16000	18.67500	3.9 %	*
13 *	20.50000	20.90000	20.70000	1.4 %	*
14 *			.00000	0 %	* - N.V.
15 *			.00000	0 %	* - N.V.
16 *	30.00000	29.00000	29.50000	2.4 %	*
17 *	12.00000	13.00000	12.50000	5.7 %	*
18 *	25.00000	25.00000	25.00000	.0 %	*
19 *	19.00000	21.00000	20.00000	7.1 %	*
20 *	20.00000	16.00000	18.00000	15.7 %	*
21 *	40.00000	27.00000	33.50000	27.4 %	*
22 *	23.70000	21.50000	22.60000	6.9 %	*
23 *			.00000	0 %	* - N.V.
24 *			.00000	0 %	* - N.V.
25 *	17.00000	23.00000	20.00000	21.2 %	*
26 *			.00000	0 %	* - N.V.
27 *	33.00000	29.00000	31.00000	9.1 %	*
28 *	28.00000	42.00000	35.00000	28.3 %	*
29 *	17.20000	17.00000	17.10000	.8 %	*



Analysis

Kolmogorov-Smirnov test on assuming a Normal distribution. 1 % unreliability;

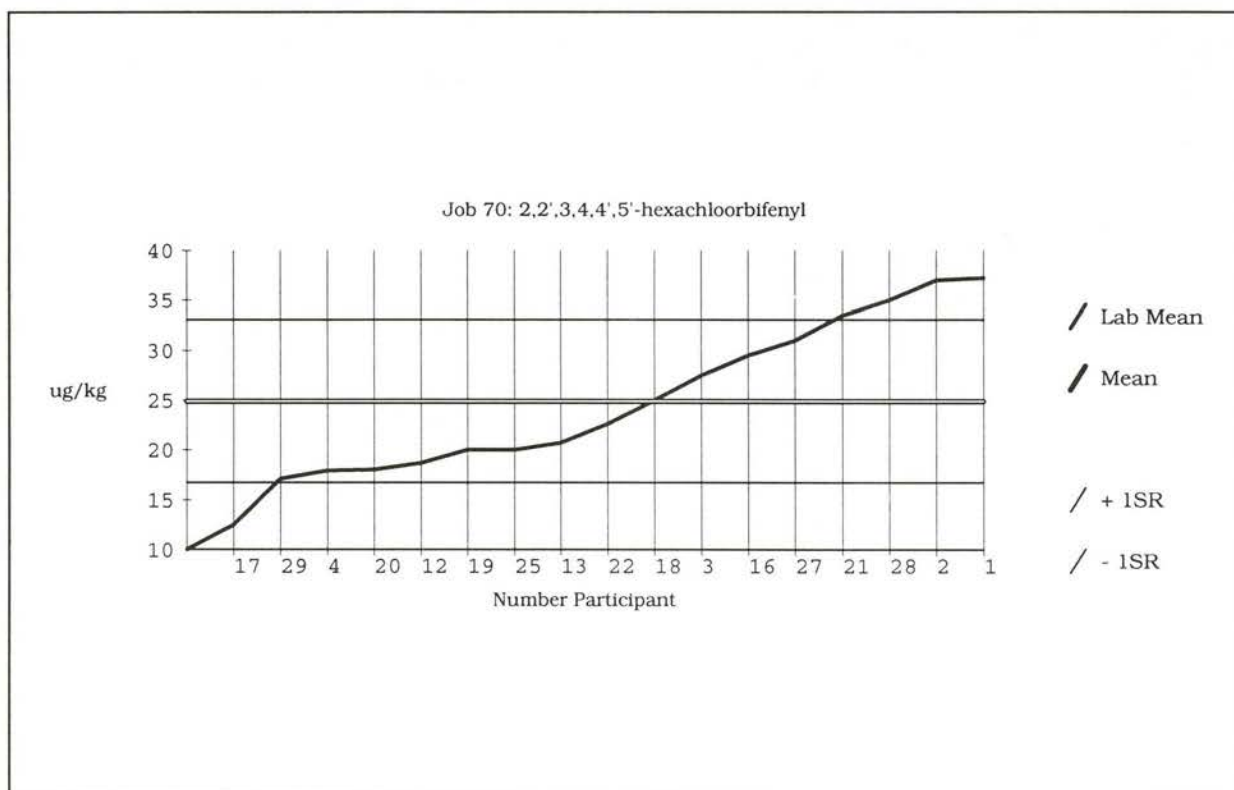
17 laboratory observations

Maximum absolute difference from Normal distribution: 0.17600. Critical value: 0.38100. KS-test passed

No outliers found

Summary

1. Eliminations due to
 - 1.1 Repeatability = 0
 - 1.2 Reproducibility = 0
 - 1.3 Manual rejected = 0
2. General Mean = 24.89265
3. Repeatability
 - 3.1 Standard deviation $S_r = 3.74119$
 - 3.2 Coefficient of variation = 15 %
4. Reproducibility
 - 4.1 Standard deviation $S_R = 8.18752$
 - 4.2 Coefficient of variation = 33 %



Job Classification

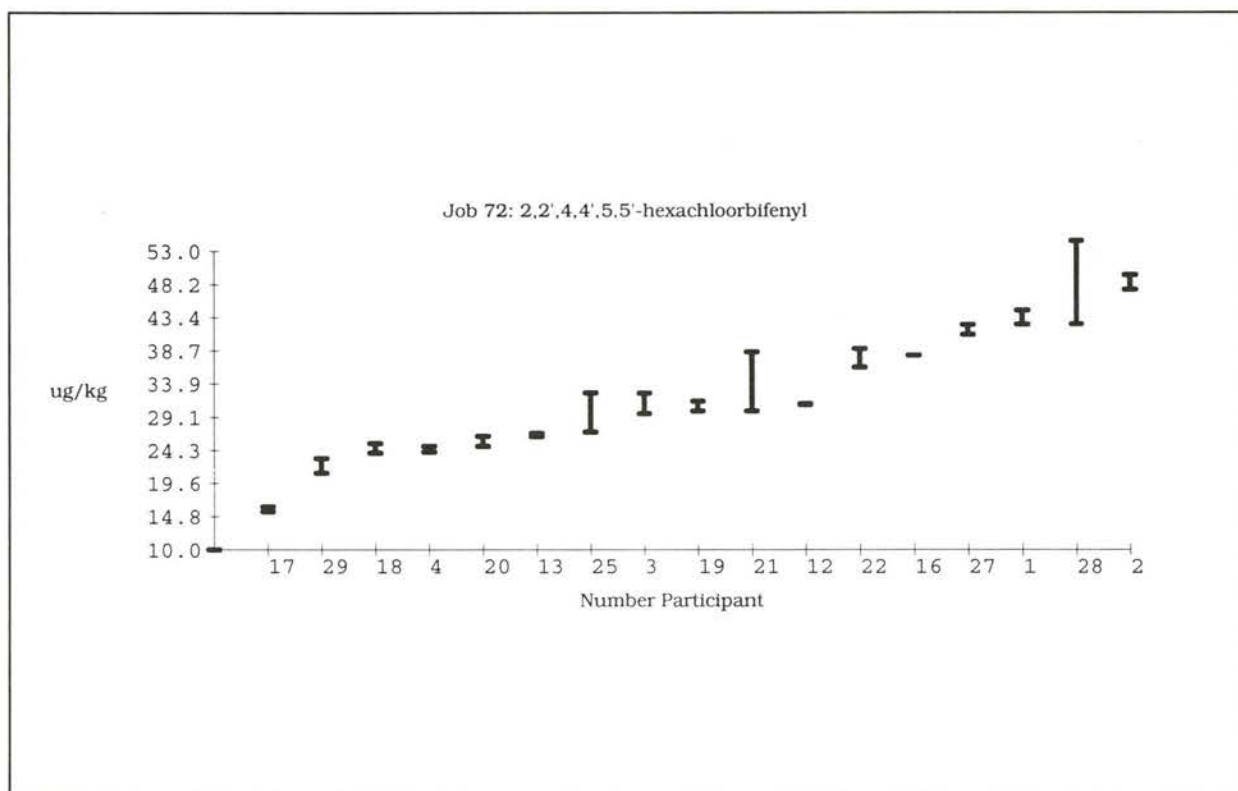
Lab *	Mean *	Clas *	Ext *	Clean *	Det *	Procedure *	
7 *	.000000	G	* ?	* ?	* ?	* ?	*
24 *	.000000	G	* -	* -	* -	* -	*
8 *	.000000	G	* ?	* ?	* ?	* ?	*
14 *	.000000	G	* -	* -	* -	* -	*
9 *	.000000	G	* -	* -	* -	* -	*
15 *	.000000	G	* ?	* ?	* ?	* ?	*
26 *	.000000	G	* -	* -	* -	* -	*
10 *	.000000	G	* -	* -	* -	* -	*
11 *	.000000	G	* -	* -	* -	* -	*
5 *	.000000	G	* -	* -	* -	* -	*
23 *	.000000	G	* -	* -	* -	* -	*
6 *	.000000	G	* .	* .	* .	* .	*
17 *	12.500000	B	* LE	* SC	* GDE	* HUIS	*
29 *	17.100000	B	* LE	* LLSC	* GDE	* HUIS	*
4 *	17.895000	A	* -	* -	* -	* -	*
20 *	18.000000	A	* LE	* SC	* GDE	* A-O-NEN 5718	*
12 *	18.675000	A	* Z	* Z	* GDE	* HUIS	*
19 *	20.000000	A	* LE	* C	* GDE	* G-NEN 5734	*
25 *	20.000000	A	* LH	* -	* GDE	* NEN 5734	*
13 *	20.700000	A	* LA	* -	* GDE	* NEN 5718/6406	*
22 *	22.600000	A	* -	* -	* -	* -	*
18 *	25.000000	A	* LA	* C	* GDE	* HUIS	*
3 *	27.465000	A	* -	* -	* GDE	* NEN 5734	*
16 *	29.500000	A	* LE	* SC	* GDE	* HUIS	*
27 *	31.000000	A	* -	* -	* -	* HUIS	*
21 *	33.500000	B	* LP	* -	* GSM	* HUIS	*
28 *	35.000000	B	* -	* -	* -	* NEN 5734	*
2 *	37.000000	B	* -	* -	* -	* -	*
1 *	37.240000	B	* -	* -	* -	* -	*

General Mean = 24.89265
Between lab standard deviation SL = 7.28278
Coefficient of variation = 29 %
Number of laboratories = 17

A: Number of laboratories with	Z	-scores between 0 and 1	; 11
B: Number of laboratories with	Z	-scores between 1 and 2	; 6
C: Number of laboratories with	Z	-scores between 2 and 3	; 0
D: Number of laboratories with	Z	-scores larger than 3	; 0

Job 72 : 99090, 99094
 2,2',4,4',5,5'-hexachloorbifenyl, PCB153 in ug/kg Sediment (Lake)

Lab *	X1 *	X2 *	Average *	%Variance *	
1 *	41.02000	43.92000	42.47000	4.8 %	*
2 *	49.00000	46.00000	47.50000	4.5 %	*
3 *	31.76000	27.51000	29.63500	10.1 %	*
4 *	24.75000	23.59000	24.17000	3.4 %	*
5 *			.00000	0 %	* - N.V.
6 *			.00000	0 %	* - N.V.
7 *			.00000	0 %	* - N.V.
8 *			.00000	0 %	* - N.V.
9 *			.00000	0 %	* - N.V.
10 *			.00000	0 %	* - N.V.
11 *			.00000	0 %	* - N.V.
12 *	30.86000	31.01000	30.93500	.3 %	*
13 *	26.10000	26.70000	26.40000	1.6 %	*
14 *			.00000	0 %	* - N.V.
15 *			.00000	0 %	* - N.V.
16 *	38.00000	38.00000	38.00000	.0 %	*
17 *	15.00000	16.00000	15.50000	4.6 %	*
18 *	25.00000	23.00000	24.00000	5.9 %	*
19 *	29.00000	31.00000	30.00000	4.7 %	*
20 *	24.00000	26.00000	25.00000	5.7 %	*
21 *	36.00000	24.00000	30.00000	28.3 %	*
22 *	38.20000	34.40000	36.30000	7.4 %	*
23 *			.00000	0 %	* - N.V.
24 *			.00000	0 %	* - N.V.
25 *	23.00000	31.00000	27.00000	21.0 %	*
26 *			.00000	0 %	* - N.V.
27 *	42.00000	40.00000	41.00000	3.4 %	*
28 *	34.00000	51.00000	42.50000	28.3 %	*
29 *	22.60000	19.60000	21.10000	10.1 %	*



Analysis

Kolmogorov-Smirnov test on assuming a Normal distribution. 1 % unreliability;

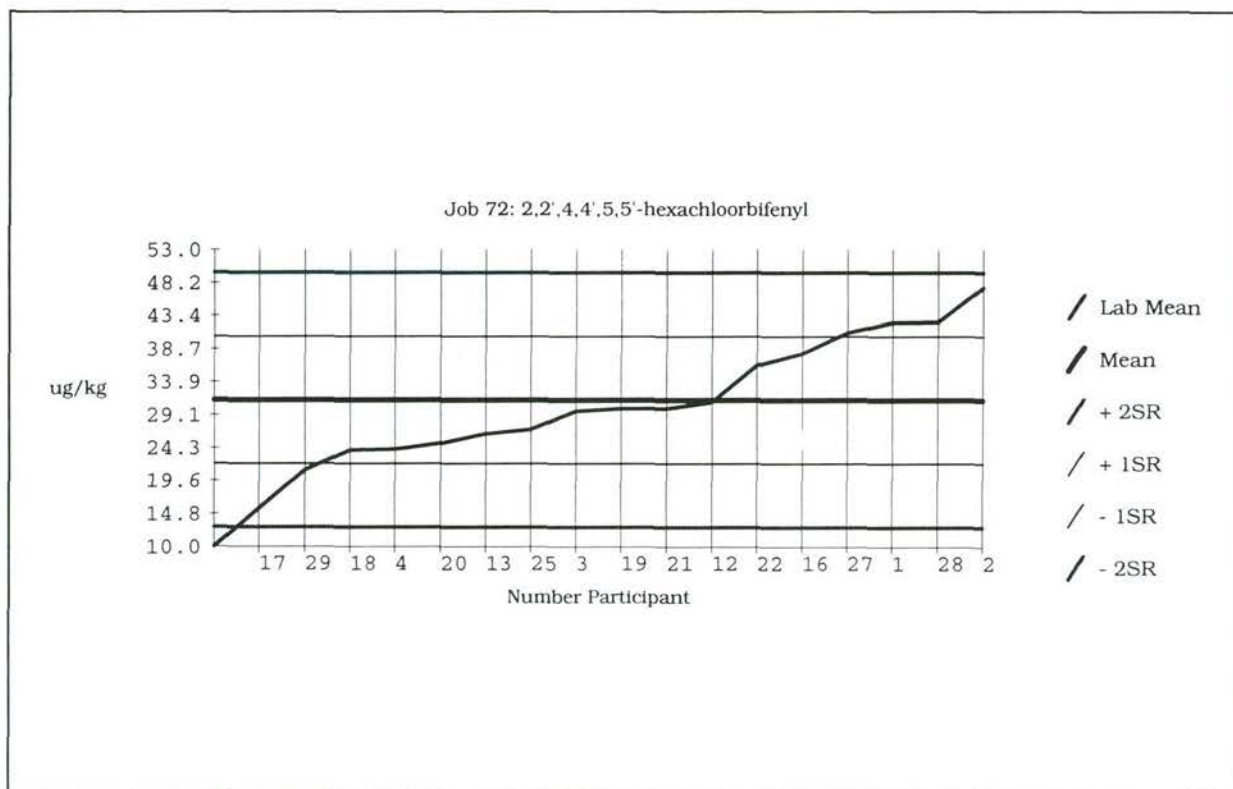
17 laboratory observations

Maximum absolute difference from Normal distribution: 0.16302. Critical value: 0.38100. KS-test passed

No outliers found

Summary

1. Eliminations due to
 - 1.1 Repeatability = 0
 - 1.2 Reproducibility = 0
 - 1.3 Manual rejected = 0
2. General Mean = 31.26529
3. Repeatability
 - 3.1 Standard deviation $S_r = 4.11111$
 - 3.2 Coefficient of variation = 13 %
4. Reproducibility
 - 4.1 Standard deviation $S_R = 9.21310$
 - 4.2 Coefficient of variation = 29 %



Job Classification

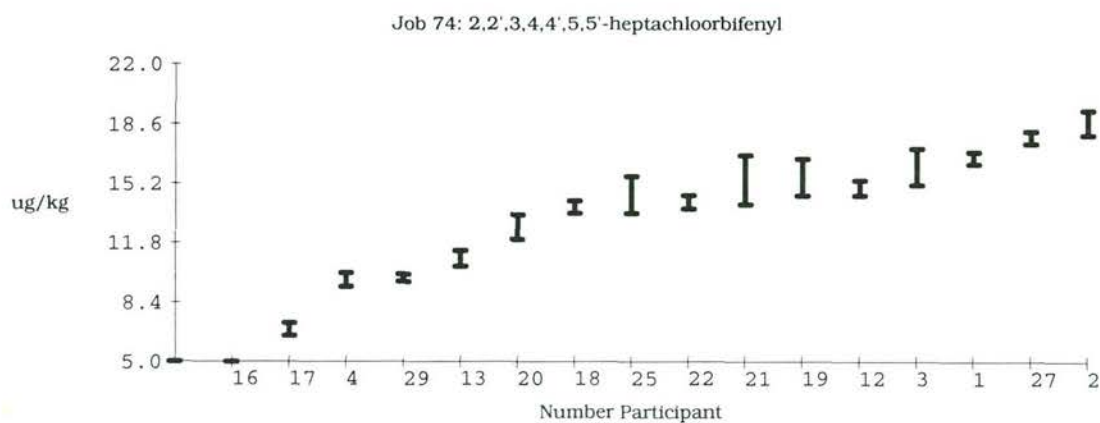
Lab *	Mean *	Clas *	Ext *	Clean *	Det *	Procedure *	
7 *	.00000	G	?	?	?	?	*
24 *	.00000	G	-	-	-	-	*
8 *	.00000	G	?	?	?	?	*
14 *	.00000	G	-	-	-	-	*
9 *	.00000	G	-	-	-	-	*
15 *	.00000	G	?	?	?	?	*
26 *	.00000	G	-	-	-	-	*
10 *	.00000	G	-	-	-	-	*
11 *	.00000	G	-	-	-	-	*
5 *	.00000	G	-	-	-	-	*
23 *	.00000	G	-	-	-	-	*
6 *	.00000	G	*
17 *	15.50000	B	LE	SC	GDE	HUIS	*
29 *	21.10000	B	LE	LLSC	GDE	HUIS	*
18 *	24.00000	A	LA	C	GDE	HUIS	*
4 *	24.17000	A	-	-	-	-	*
20 *	25.00000	A	LE	SC	GDE	A-O-NEN 5718	*
13 *	26.40000	A	LA	-	GDE	NEN 5718/6406	*
25 *	27.00000	A	LH	-	GDE	NEN 5734	*
3 *	29.63500	A	-	-	GDE	NEN 5734	*
19 *	30.00000	A	LE	C	GDE	G-NEN 5734	*
21 *	30.00000	A	LP	-	GSM	HUIS	*
12 *	30.93500	A	Z	Z	GDE	HUIS	*
22 *	36.30000	A	-	-	-	-	*
16 *	38.00000	A	LE	SC	GDE	HUIS	*
27 *	41.00000	B	-	-	-	HUIS	*
1 *	42.47000	B	-	-	-	-	*
28 *	42.50000	B	-	-	-	NEN 5734	*
2 *	47.50000	B	-	-	-	-	*

General Mean = 31.26529
Between lab standard deviation SL = 8.24500
Coefficient of variation = 26 %
Number of laboratories = 17

A: Number of laboratories with	Z	-scores between 0 and 1	; 11
B: Number of laboratories with	Z	-scores between 1 and 2	; 6
C: Number of laboratories with	Z	-scores between 2 and 3	; 0
D: Number of laboratories with	Z	-scores larger than 3	; 0

Job 74 : 99090, 99094
 2,2',3,4,4',5,5'-heptachloorbifenyl, PCB180 in ug/kg Sediment (Lake)

Lab *	X1 *	X2 *	Average *	%Variance *	
1 *	15.83000	16.82000	16.32500	4.3 %	*
2 *	19.00000	17.00000	18.00000	7.9 %	*
3 *	16.60000	13.67000	15.13500	13.7 %	*
4 *	8.77000	9.85000	9.31000	8.2 %	*
5 *	*	*	.00000	0 %	- N.V.
6 *	*	*	.00000	0 %	- N.V.
7 *	*	*	.00000	0 %	- N.V.
8 *	*	*	.00000	0 %	- N.V.
9 *	*	*	.00000	0 %	- N.V.
10 *	*	*	.00000	0 %	- N.V.
11 *	*	*	.00000	0 %	- N.V.
12 *	15.14000	13.90000	14.52000	6.0 %	*
13 *	9.80000	11.10000	10.45000	8.8 %	*
14 *	*	*	.00000	0 %	- N.V.
15 *	*	*	.00000	0 %	- N.V.
16 *	5.00000	5.00000	5.00000	.0 %	*
17 *	6.00000	7.00000	6.50000	10.9 %	*
18 *	14.00000	13.00000	13.50000	5.2 %	*
19 *	13.00000	16.00000	14.50000	14.6 %	*
20 *	11.00000	13.00000	12.00000	11.8 %	*
21 *	16.00000	12.00000	14.00000	20.2 %	*
22 *	13.20000	14.30000	13.75000	5.7 %	*
23 *	*	*	.00000	0 %	- N.V.
24 *	*	*	.00000	0 %	- N.V.
25 *	12.00000	15.00000	13.50000	15.7 %	*
26 *	*	*	.00000	0 %	- N.V.
27 *	17.00000	18.00000	17.50000	4.0 %	*
28 *	16.00000	40.00000	28.00000	60.6 %	*
29 *	9.30000	9.90000	9.60000	4.4 %	*



Analysis

Kolmogorov-Smirnov test on assuming a Normal distribution. 1 % unreliability;

17 laboratory observations

Maximum absolute difference from Normal distribution: 0.15061. Critical value: 0.38100. KS-test passed

COCHRAN; 1 % ; replicas: 2

Cyc	Lab	Average	Variance	Result	Value
1	28	28.00000	16.97056	.90491	.53233

Summary

1. Eliminations due to

1.1 Repeatability = 1

1.2 Reproducibility = 0

1.3 Manual rejected = 0

2. General Mean = 12.72438

3. Repeatability

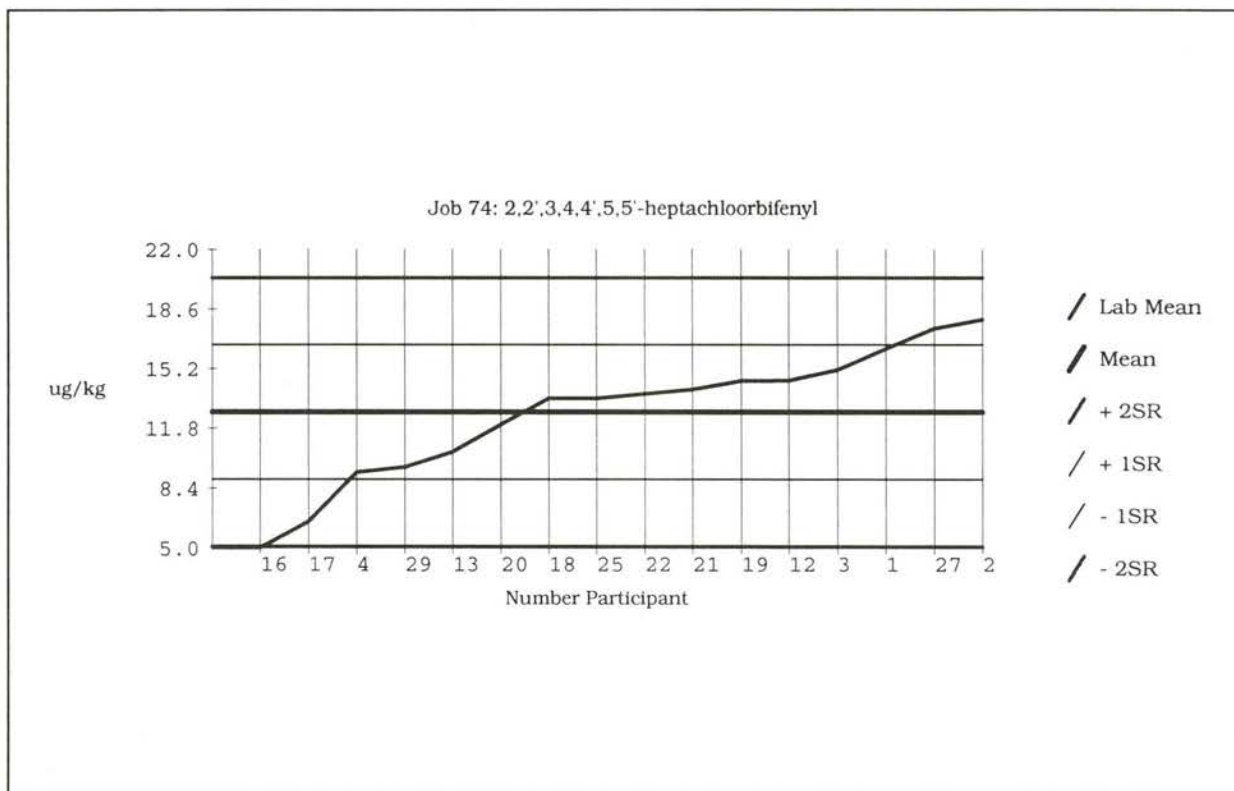
3.1 Standard deviation $S_r = 1.37533$

3.2 Coefficient of variation = 11 %

4. Reproducibility

4.1 Standard deviation $S_R = 3.82436$

4.2 Coefficient of variation = 30 %



Job Classification

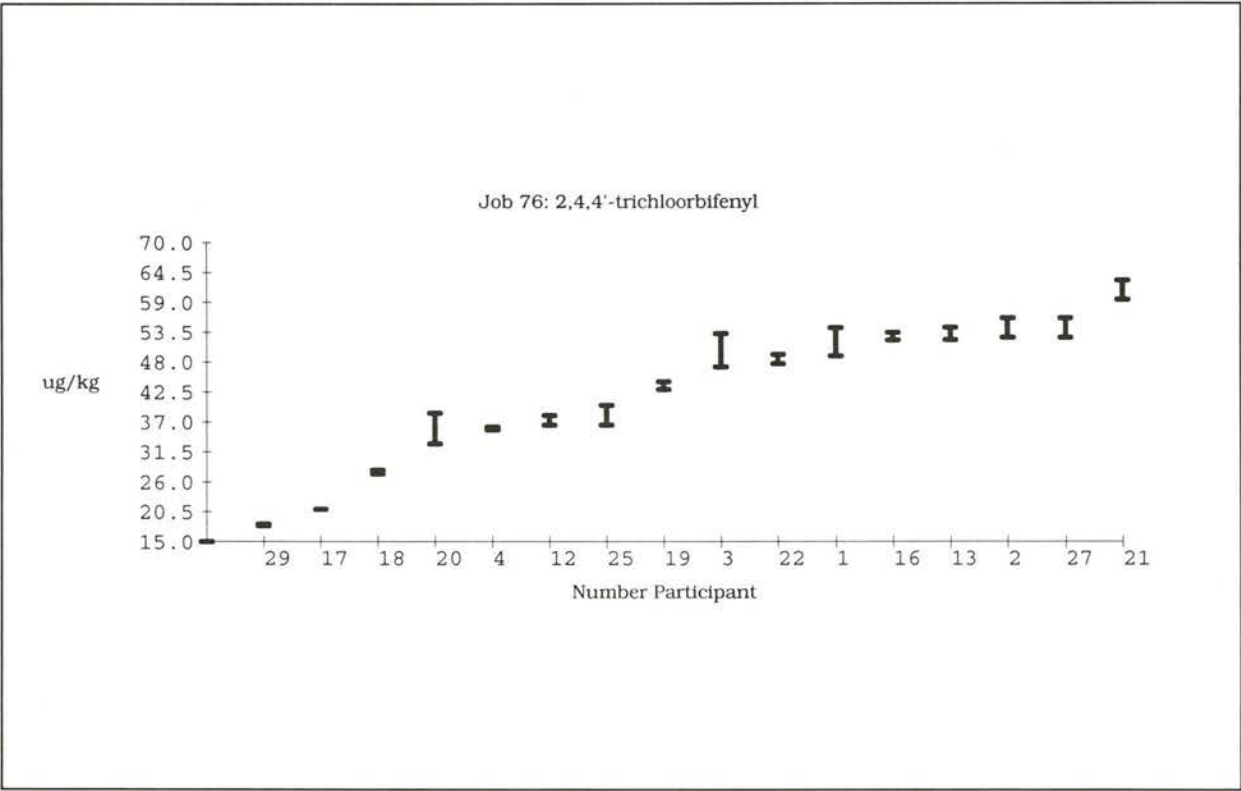
Lab *	Mean *	Clas *	Ext *	Clean *	Det *	Procedure *	
7 *	.00000 *	G *	? *	? *	? *	? *	*
24 *	.00000 *	G *	- *	- *	- *	- *	*
8 *	.00000 *	G *	? *	? *	? *	? *	*
14 *	.00000 *	G *	- *	- *	- *	- *	*
9 *	.00000 *	G *	- *	- *	- *	- *	*
15 *	.00000 *	G *	? *	? *	? *	? *	*
26 *	.00000 *	G *	- *	- *	- *	- *	*
10 *	.00000 *	G *	- *	- *	- *	- *	*
11 *	.00000 *	G *	- *	- *	- *	- *	*
5 *	.00000 *	G *	- *	- *	- *	- *	*
23 *	.00000 *	G *	- *	- *	- *	- *	*
6 *	.00000 *	G *	- *	- *	- *	- *	*
16 *	5.00000 *	C *	LE *	SC *	GDE *	HUIS	*
17 *	6.50000 *	B *	LE *	SC *	GDE *	HUIS	*
4 *	9.31000 *	A *	- *	- *	- *	- *	*
29 *	9.60000 *	A *	LE *	LLSC *	GDE *	HUIS	*
13 *	10.45000 *	A *	LA *	- *	GDE *	NEN 5718/6406	*
20 *	12.00000 *	A *	LE *	SC *	GDE *	A-O-NEN 5718	*
25 *	13.50000 *	A *	LH *	- *	GDE *	NEN 5734	*
18 *	13.50000 *	A *	LA *	C *	GDE *	HUIS	*
22 *	13.75000 *	A *	- *	- *	- *	- *	*
21 *	14.00000 *	A *	LP *	- *	GSM *	HUIS	*
19 *	14.50000 *	A *	LE *	C *	GDE *	G-NEN 5734	*
12 *	14.52000 *	A *	Z *	Z *	GDE *	HUIS	*
3 *	15.13500 *	A *	- *	- *	GDE *	NEN 5734	*
1 *	16.32500 *	A *	- *	- *	- *	- *	*
27 *	17.50000 *	B *	- *	- *	- *	HUIS	*
2 *	18.00000 *	B *	- *	- *	- *	- *	*
28 *	28.00000 *	W *	- *	- *	- *	NEN 5734	*

General Mean = 12.72438
Between lab standard deviation SL = 3.56850
Coefficient of variation = 28 %
Number of laboratories = 16

A: Number of laboratories with Z-scores between 0 and 1 ; 12
B: Number of laboratories with Z-scores between 1 and 2 ; 3
C: Number of laboratories with Z-scores between 2 and 3 ; 1
D: Number of laboratories with Z-scores larger than 3 ; 0

Job 76 : 99090, 99094
 2,4,4'-trichloorbifenyyl, PCB28 in ug/kg Sediment (Lake)

Lab *	X1 *	X2 *	Average *	%Variance *	
1 *	45.52000 *	52.76000 *	49.14000 *	10.4 % *	
2 *	55.00000 *	50.00000 *	52.50000 *	6.7 % *	
3 *	51.42000 *	42.77000 *	47.09500 *	13.0 % *	
4 *	35.95000 *	35.26000 *	35.60500 *	1.4 % *	
5 *			.00000 *	0 % *	- N.V.
6 *			.00000 *	0 % *	- N.V.
7 *			.00000 *	0 % *	- N.V.
8 *			.00000 *	0 % *	- N.V.
9 *			.00000 *	0 % *	- N.V.
10 *			.00000 *	0 % *	- N.V.
11 *			.00000 *	0 % *	- N.V.
12 *	37.69000 *	35.28000 *	36.48500 *	4.7 % *	
13 *	53.70000 *	50.40000 *	52.05000 *	4.5 % *	
14 *			.00000 *	0 % *	- N.V.
15 *			.00000 *	0 % *	- N.V.
16 *	53.00000 *	51.00000 *	52.00000 *	2.7 % *	
17 *	21.00000 *	21.00000 *	21.00000 *	.0 % *	
18 *	28.00000 *	27.00000 *	27.50000 *	2.6 % *	
19 *	42.00000 *	44.00000 *	43.00000 *	3.3 % *	
20 *	37.00000 *	29.00000 *	33.00000 *	17.1 % *	
21 *	62.00000 *	57.00000 *	59.50000 *	5.9 % *	
22 *	48.90000 *	46.40000 *	47.65000 *	3.7 % *	
23 *			.00000 *	0 % *	- N.V.
24 *			.00000 *	0 % *	- N.V.
25 *	34.00000 *	39.00000 *	36.50000 *	9.7 % *	
26 *			.00000 *	0 % *	- N.V.
27 *	55.00000 *	50.00000 *	52.50000 *	6.7 % *	
28 *	40.00000 *	40.00000 *	.00000 *	0 % *	< N.V.
29 *	17.80000 *	18.20000 *	18.00000 *	1.6 % *	



Analysis

Kolmogorov-Smirnov test on assuming a Normal distribution. 1 % unreliability;

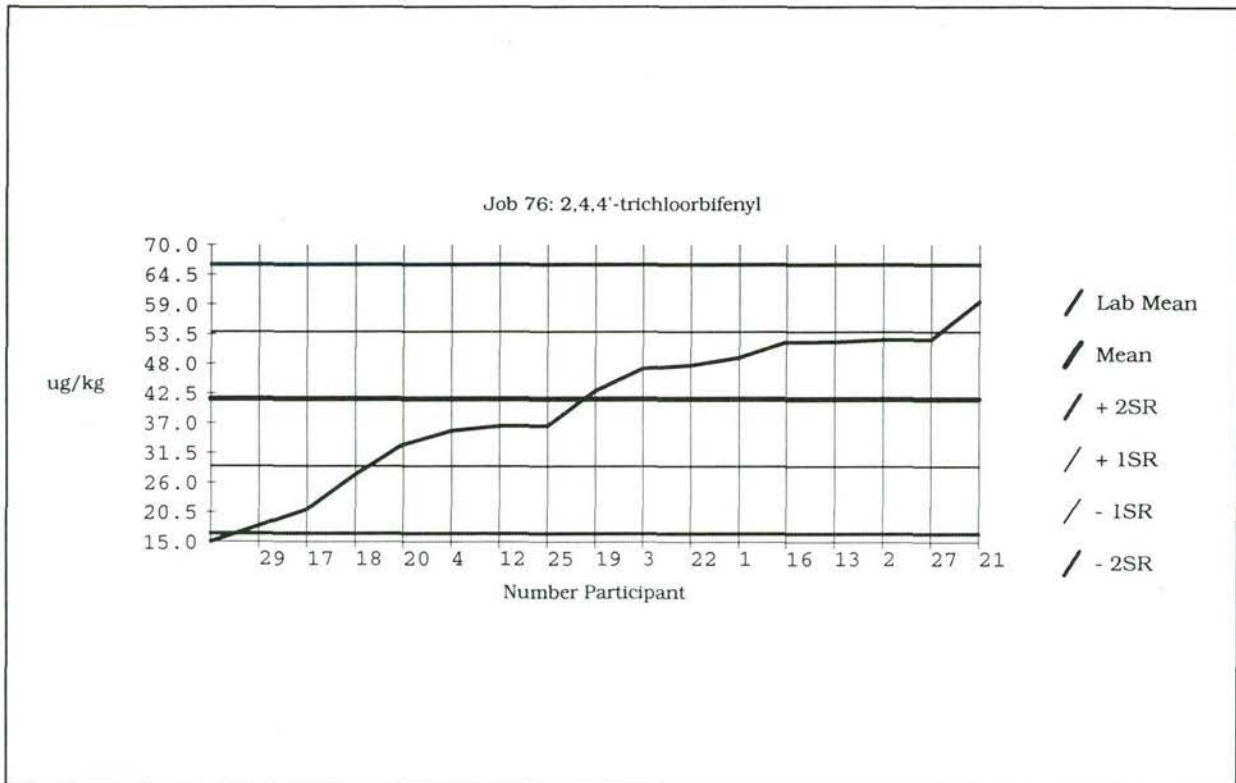
16 laboratory observations

Maximum absolute difference from Normal distribution: 0.12156. Critical value: 0.39200. KS-test passed

No outliers found

Summary

1. Eliminations due to
 - 1.1 Repeatability = 0
 - 1.2 Reproducibility = 0
 - 1.3 Manual rejected = 0
2. General Mean = 41.47031
3. Repeatability
 - 3.1 Standard deviation $S_r = 3.18112$
 - 3.2 Coefficient of variation = 8 %
4. Reproducibility
 - 4.1 Standard deviation $S_R = 12.43337$
 - 4.2 Coefficient of variation = 30 %



Job Classification

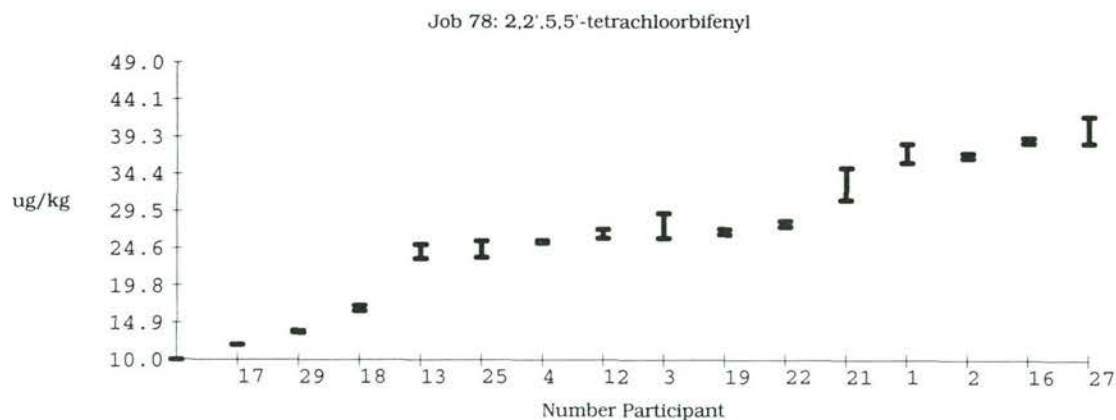
Lab *	Mean	* Clas	* Ext	* Clean	* Det	* Procedure	*
7 *	.00000	* G	* ?	* ?	* ?	* ?	*
24 *	.00000	* G	* -	* -	* -	* -	*
8 *	.00000	* G	* ?	* ?	* ?	* ?	*
14 *	.00000	* G	* -	* -	* -	* -	*
9 *	.00000	* G	* -	* -	* -	* -	*
15 *	.00000	* G	* ?	* ?	* ?	* ?	*
26 *	.00000	* G	* -	* -	* -	* -	*
10 *	.00000	* G	* -	* -	* -	* -	*
11 *	.00000	* G	* -	* -	* -	* -	*
28 *	.00000	* G	* -	* -	* -	* NEN 5734	*
5 *	.00000	* G	* -	* -	* -	* -	*
23 *	.00000	* G	* -	* -	* -	* -	*
6 *	.00000	* G	* .	* .	* .	* .	*
29 *	18.00000	* B	* LE	* LLSC	* GDE	* HUIS	*
17 *	21.00000	* B	* LE	* SC	* GDE	* HUIS	*
18 *	27.50000	* B	* LA	* C	* GDE	* HUIS	*
20 *	33.00000	* A	* LE	* SC	* GDE	* A-O-NEN 5718	*
4 *	35.60500	* A	* -	* -	* -	* -	*
12 *	36.48500	* A	* Z	* Z	* GDE	* HUIS	*
25 *	36.50000	* A	* LH	* -	* GDE	* NEN 5734	*
19 *	43.00000	* A	* LE	* C	* GDE	* G-NEN 5734	*
3 *	47.09500	* A	* -	* -	* GDE	* NEN 5734	*
22 *	47.65000	* A	* -	* -	* -	* -	*
1 *	49.14000	* A	* -	* -	* -	* -	*
16 *	52.00000	* A	* LE	* SC	* GDE	* HUIS	*
13 *	52.05000	* A	* LA	* -	* GDE	* NEN 5718/6406	*
2 *	52.50000	* A	* -	* -	* -	* -	*
27 *	52.50000	* A	* -	* -	* -	* HUIS	*
21 *	59.50000	* B	* LP	* -	* GSM	* HUIS	*

General Mean = 41.47031
Between lab standard deviation SL = 12.01954
Coefficient of variation = 29 %
Number of laboratories = 16

A: Number of laboratories with Z-scores between 0 and 1 ; 12
B: Number of laboratories with Z-scores between 1 and 2 ; 4
C: Number of laboratories with Z-scores between 2 and 3 ; 0
D: Number of laboratories with Z-scores larger than 3 ; 0

Job 78 : 99090, 99094
 2,2',5,5'-tetrachloorbifeny1, PCB52 in ug/kg Sediment (Lake)

Lab *	X1 *	X2 *	Average *	%Variance *	
1 *	34.16000	37.66000	35.91000	6.9 %	*
2 *	37.00000	36.00000	36.50000	1.9 %	*
3 *	28.29000	23.69000	25.99000	12.5 %	*
4 *	25.59000	25.10000	25.34500	1.4 %	*
5 *			.00000	0 %	- N.V.
6 *			.00000	0 %	- N.V.
7 *			.00000	0 %	- N.V.
8 *			.00000	0 %	- N.V.
9 *			.00000	0 %	- N.V.
10 *			.00000	0 %	- N.V.
11 *			.00000	0 %	- N.V.
12 *	26.79000	25.18000	25.98500	4.4 %	*
13 *	22.00000	24.60000	23.30000	7.9 %	*
14 *			.00000	0 %	- N.V.
15 *			.00000	0 %	- N.V.
16 *	39.00000	38.00000	38.50000	1.8 %	*
17 *	12.00000	12.00000	12.00000	.0 %	*
18 *	16.00000	17.00000	16.50000	4.3 %	*
19 *	26.00000	27.00000	26.50000	2.7 %	*
20 *	23.00000	52.00000	37.50000	54.7 %	*
21 *	34.00000	28.00000	31.00000	13.7 %	*
22 *	26.90000	28.00000	27.45000	2.8 %	*
23 *			.00000	0 %	- N.V.
24 *			.00000	0 %	- N.V.
25 *	22.00000	25.00000	23.50000	9.0 %	*
26 *			.00000	0 %	- N.V.
27 *	41.00000	36.00000	38.50000	9.2 %	*
28 *	40.00000	40.00000	.00000	0 %	< N.V.
29 *	13.40000	13.80000	13.60000	2.1 %	*



Analysis

Kolmogorov-Smirnov test on assuming a Normal distribution. 1 % unreliability;

16 laboratory observations

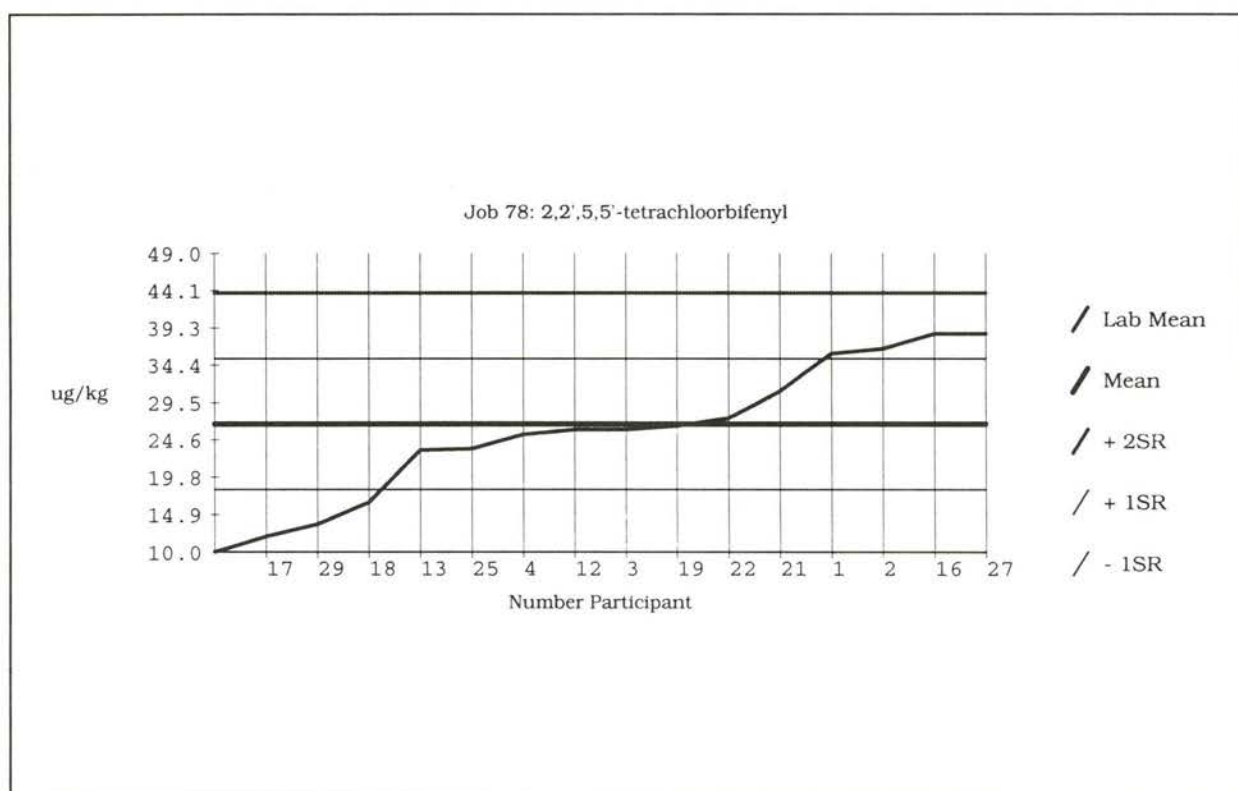
Maximum absolute difference from Normal distribution: 0.12101. Critical value: 0.39200. KS-test passed

COCHRAN; 1 % ; replicas: 2

Cyc *	Lab *	Average *	Variance *	Result *	Value
1 *	20 *	37.50000 *	20.50610 *	.87661 *	.55260

Summary

1. Eliminations due to
 - 1.1 Repeatability = 1
 - 1.2 Reproducibility = 0
 - 1.3 Manual rejected = 0
2. General Mean = 26.70533
3. Repeatability
 - 3.1 Standard deviation $S_r = 1.98639$
 - 3.2 Coefficient of variation = 7 %
4. Reproducibility
 - 4.1 Standard deviation $S_R = 8.54587$
 - 4.2 Coefficient of variation = 32 %



Job Classification

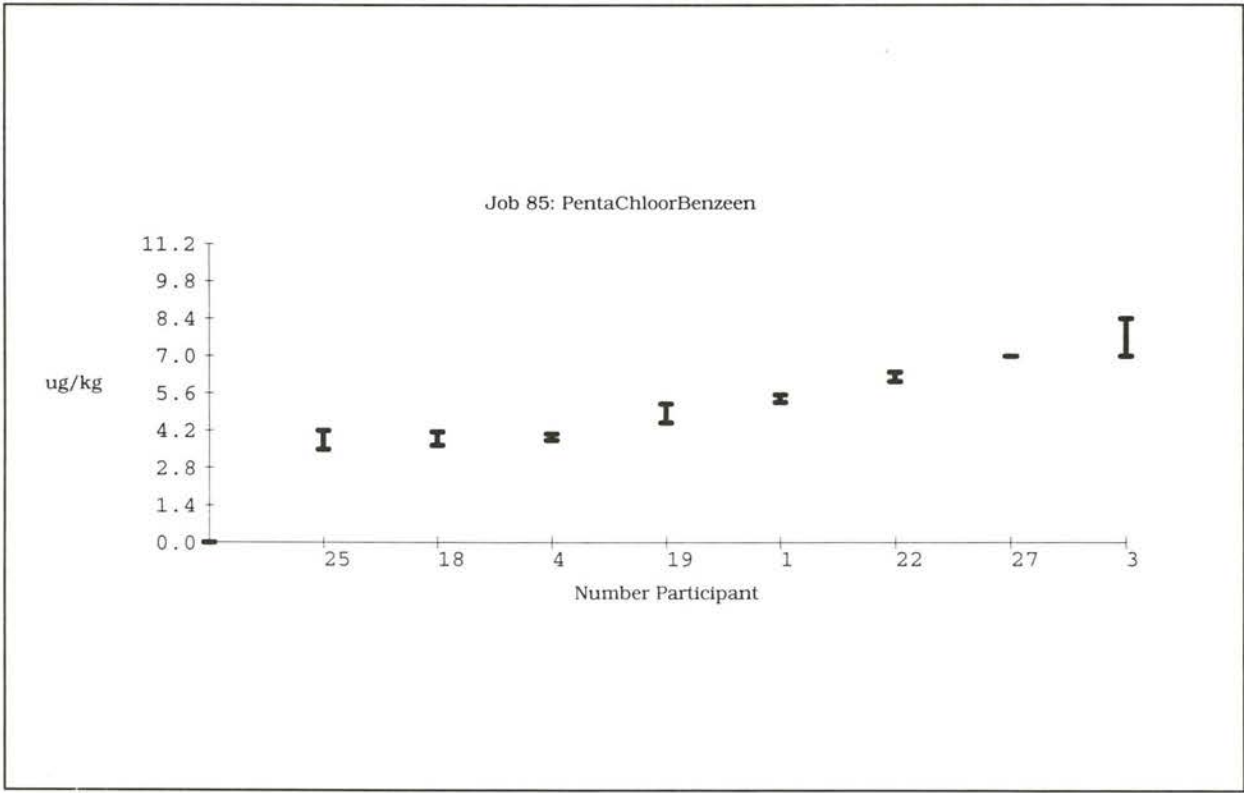
Lab *	Mean *	Clas *	Ext *	Clean *	Det *	Procedure *	
7 *	.00000	G	* ?	* ?	* ?	* ?	*
24 *	.00000	G	* -	* -	* -	* -	*
8 *	.00000	G	* ?	* ?	* ?	* ?	*
14 *	.00000	G	* -	* -	* -	* -	*
9 *	.00000	G	* -	* -	* -	* -	*
15 *	.00000	G	* ?	* ?	* ?	* ?	*
26 *	.00000	G	* -	* -	* -	* -	*
10 *	.00000	G	* -	* -	* -	* -	*
11 *	.00000	G	* -	* -	* -	* -	*
28 *	.00000	G	* -	* -	* -	* NEN 5734	*
5 *	.00000	G	* -	* -	* -	* -	*
23 *	.00000	G	* -	* -	* -	* -	*
6 *	.00000	G	* ?	* ?	* ?	* ?	*
17 *	12.00000	B	* LE	* SC	* GDE	* HUIS	*
29 *	13.60000	B	* LE	* LLSC	* GDE	* HUIS	*
18 *	16.50000	B	* LA	* C	* GDE	* HUIS	*
13 *	23.30000	A	* LA	* -	* GDE	* NEN 5718/6406	*
25 *	23.50000	A	* LH	* -	* GDE	* NEN 5734	*
4 *	25.34500	A	* -	* -	* -	* -	*
12 *	25.98500	A	* Z	* Z	* GDE	* HUIS	*
3 *	25.99000	A	* -	* -	* GDE	* NEN 5734	*
19 *	26.50000	A	* LE	* C	* GDE	* G-NEN 5734	*
22 *	27.45000	A	* -	* -	* -	* -	*
21 *	31.00000	A	* LP	* -	* GSM	* HUIS	*
1 *	35.91000	B	* -	* -	* -	* -	*
2 *	36.50000	B	* -	* -	* -	* -	*
20 *	37.50000	W	* LE	* SC	* GDE	* A-O-NEN 5718	*
16 *	38.50000	B	* LE	* SC	* GDE	* HUIS	*
27 *	38.50000	B	* -	* -	* -	* HUIS	*

General Mean = 26.70533
Between lab standard deviation SL = 8.31181
Coefficient of variation = 31 %
Number of laboratories = 15

A: Number of laboratories with	Z	-scores between 0 and 1	; 8
B: Number of laboratories with	Z	-scores between 1 and 2	; 7
C: Number of laboratories with	Z	-scores between 2 and 3	; 0
D: Number of laboratories with	Z	-scores larger than 3	; 0

Job 85 : 99090, 99094
PentaChloorBenzeen, QCB in ug/kg Sediment (Lake)

Lab *	X1 *	X2 *	Average *	%Variance *	
1 *	5.06500 *	5.47100 *	5.26800 *	5.4 % *	
2 *			.00000 *	0 % *	- N.V.
3 *	8.00000 *	6.00000 *	7.00000 *	20.2 % *	
4 *	4.01000 *	3.66000 *	3.83500 *	6.5 % *	
5 *			.00000 *	0 % *	- N.V.
6 *			.00000 *	0 % *	- N.V.
7 *			.00000 *	0 % *	- N.V.
8 *			.00000 *	0 % *	- N.V.
9 *			.00000 *	0 % *	- N.V.
10 *			.00000 *	0 % *	- N.V.
11 *			.00000 *	0 % *	- N.V.
12 *	37.38000 *	5.71000 *	21.54500 *	103.9 % *	
13 *			.00000 *	0 % *	- N.V.
14 *			.00000 *	0 % *	- N.V.
15 *			.00000 *	0 % *	- N.V.
16 *	5.00000 *	14.00000 *	9.50000 *	67.0 % *	
17 *			.00000 *	0 % *	- N.V.
18 *	3.30000 *	4.00000 *	3.65000 *	13.6 % *	
19 *	4.00000 *	5.00000 *	4.50000 *	15.7 % *	
20 *			.00000 *	0 % *	- N.V.
21 *	1.00000 *	1.00000 *	.00000 *	0 % *	< N.V.
22 *	6.30000 *	5.80000 *	6.05000 *	5.8 % *	
23 *			.00000 *	0 % *	- N.V.
24 *			.00000 *	0 % *	- N.V.
25 *	3.00000 *	4.00000 *	3.50000 *	20.2 % *	
26 *			.00000 *	0 % *	- N.V.
27 *	7.00000 *	7.00000 *	7.00000 *	.0 % *	
28 *			.00000 *	0 % *	- N.V.
29 *			.00000 *	0 % *	



Analysis

Kolmogorov-Smirnov test on assuming a Normal distribution. 1 % unreliability;
10 laboratory observations

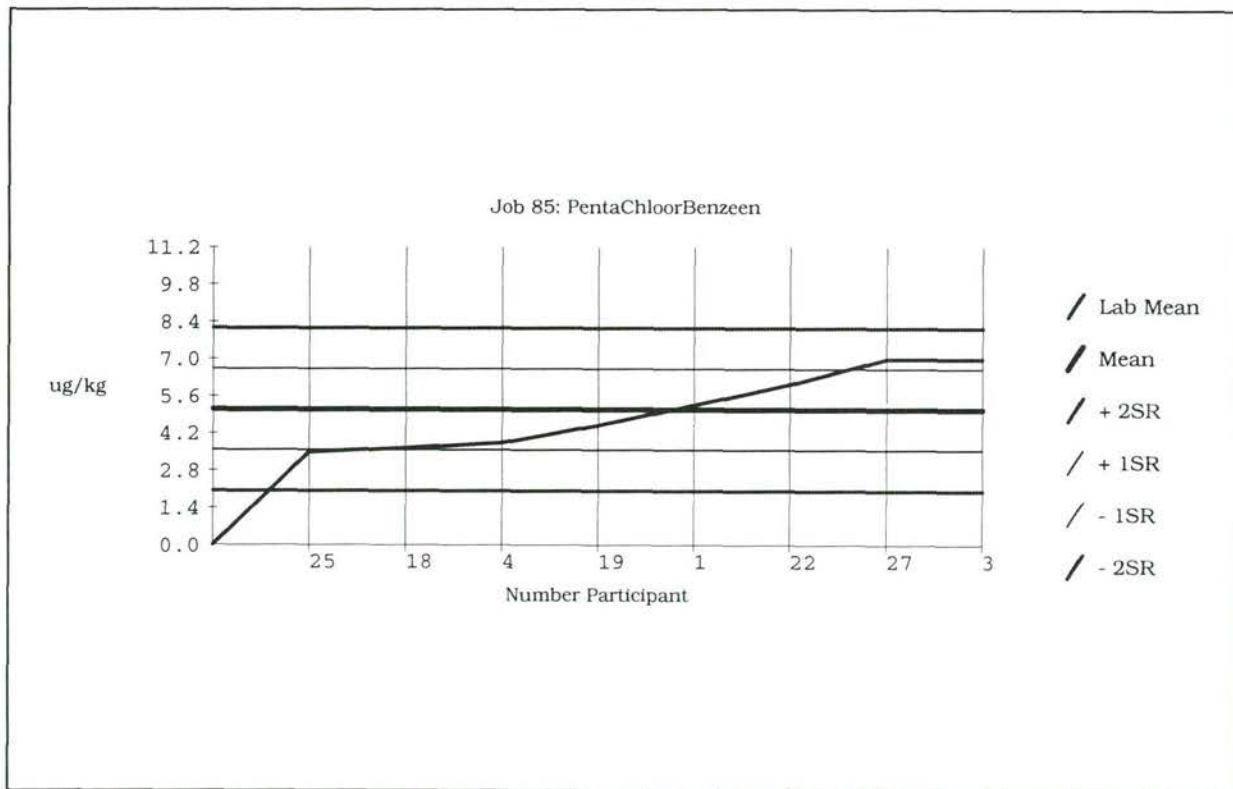
Maximum absolute difference from Normal distribution: 0.31197. Critical value: 0.48900. KS-test passed

COCHRAN; 1 % ; replicas: 2

Cyc *	Lab *	Average *	Variance *	Result *	Value
1 *	12 *	21.54500 *	22.39407 *	.91932 *	.71757
2 *	16 *	9.50000 *	6.36396 *	.92017 *	.75452

Summary

1. Eliminations due to
 - 1.1 Repeatability = 2
 - 1.2 Reproducibility = 0
 - 1.3 Manual rejected = 0
2. General Mean = 5.10038
3. Repeatability
 - 3.1 Standard deviation $S_r = .66273$
 - 3.2 Coefficient of variation = 13 %
4. Reproducibility
 - 4.1 Standard deviation $S_R = 1.52647$
 - 4.2 Coefficient of variation = 30 %



Job Classification

Lab *	Mean *	Clas *	Ext *	Clean *	Det *	Procedure *	
7 *	.00000 *	G *	? *	? *	? *	? *	*
13 *	.00000 *	G *	- *	- *	- *	- *	*
24 *	.00000 *	G *	- *	- *	- *	- *	*
8 *	.00000 *	G *	? *	? *	? *	? *	*
14 *	.00000 *	G *	- *	- *	- *	- *	*
2 *	.00000 *	G *	- *	- *	- *	- *	*
9 *	.00000 *	G *	- *	- *	- *	- *	*
15 *	.00000 *	G *	? *	? *	? *	? *	*
20 *	.00000 *	G *	- *	- *	- *	- *	*
26 *	.00000 *	G *	- *	- *	- *	- *	*
10 *	.00000 *	G *	- *	- *	- *	- *	*
21 *	.00000 *	G *	LP *	- *	GSM *	HUIS *	*
11 *	.00000 *	G *	- *	- *	- *	- *	*
17 *	.00000 *	G *	- *	- *	- *	- *	*
28 *	.00000 *	G *	- *	- *	- *	- *	*
5 *	.00000 *	G *	- *	- *	- *	- *	*
23 *	.00000 *	G *	- *	- *	- *	- *	*
29 *	.00000 *	G *	- *	- *	- *	- *	*
6 *	.00000 *	G *	- *	- *	- *	- *	*
25 *	3.50000 *	B *	LH *	- *	GDE *	NEN 5734 *	*
18 *	3.65000 *	A *	LA *	C *	GDE *	HUIS *	*
4 *	3.83500 *	A *	- *	- *	- *	- *	*
19 *	4.50000 *	A *	LE *	C *	GDE *	G-NEN 5734 *	*
1 *	5.26800 *	A *	- *	- *	- *	- *	*
22 *	6.05000 *	A *	- *	- *	- *	- *	*
3 *	7.00000 *	B *	- *	- *	GDE *	NEN 5734 *	*
27 *	7.00000 *	B *	- *	- *	- *	HUIS *	*
16 *	9.50000 *	W *	LE *	SC *	GDE *	HUIS *	*
12 *	21.54500 *	W *	Z *	Z *	GDE *	HUIS *	*

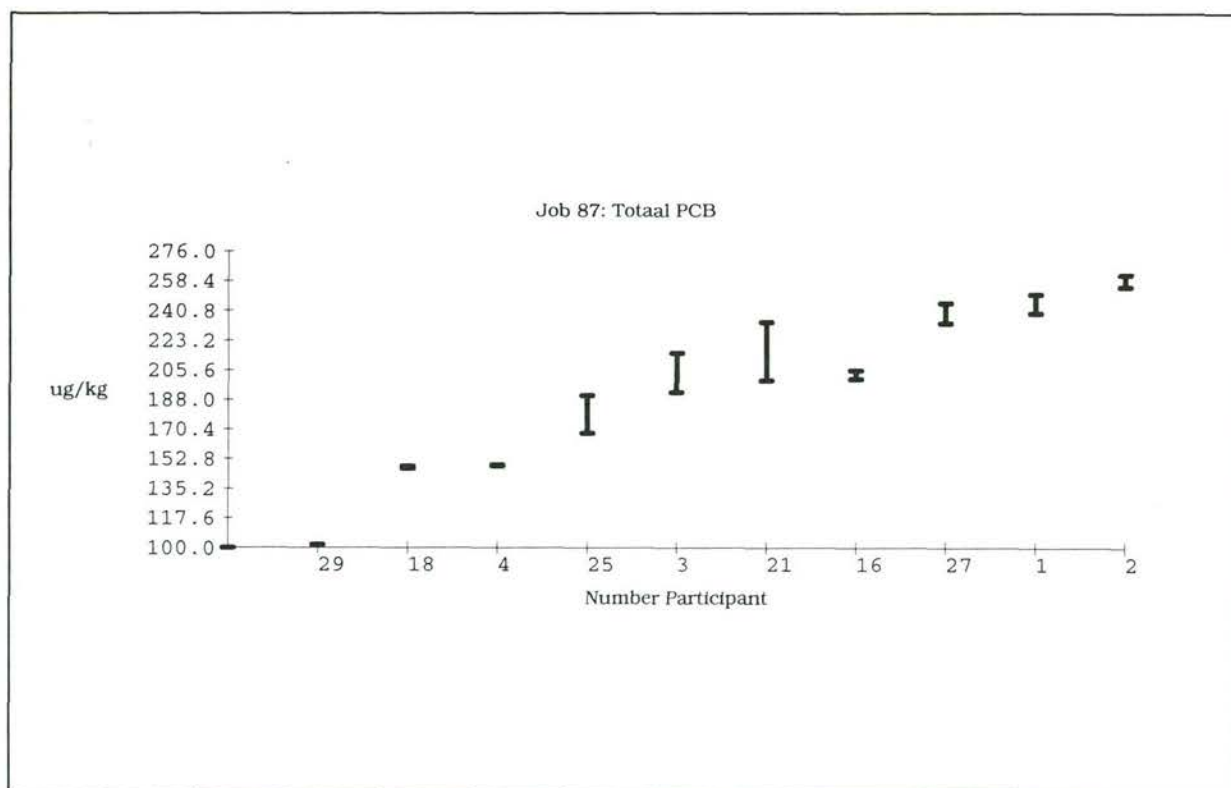
General Mean = 5.10038
Between lab standard deviation SL = 1.37510
Coefficient of variation = 27 %
Number of laboratories = 8

A: Number of laboratories with	Z	-scores between 0 and 1	; 5
B: Number of laboratories with	Z	-scores between 1 and 2	; 3
C: Number of laboratories with	Z	-scores between 2 and 3	; 0
D: Number of laboratories with	Z	-scores larger than 3	; 0

Job 87 : 99090, 99094

Totaal PCB, Tot PCB in ug/kg Sediment (Lake)

Lab *	X1 *	X2 *	Average *	%Variance *	
1 *	231.50000	247.40000	239.45000	4.7 %	*
2 *	260.00000	250.00000	255.00000	2.8 %	*
3 *	209.00000	176.00000	192.50000	12.1 %	*
4 *	149.10000	148.30000	148.70000	.4 %	*
5 *			.00000	0 %	* - N.V.
6 *			.00000	0 %	* - N.V.
7 *			.00000	0 %	* - N.V.
8 *			.00000	0 %	* - N.V.
9 *			.00000	0 %	* - N.V.
10 *			.00000	0 %	* - N.V.
11 *			.00000	0 %	* - N.V.
12 *			.00000	0 %	* - N.V.
13 *			.00000	0 %	* - N.V.
14 *			.00000	0 %	* - N.V.
15 *			.00000	0 %	* - N.V.
16 *	204.00000	197.00000	200.50000	2.5 %	*
17 *			.00000	0 %	* - N.V.
18 *	148.00000	146.00000	147.00000	1.0 %	*
19 *			.00000	0 %	* - N.V.
20 *			.00000	0 %	* - N.V.
21 *	224.00000	175.00000	199.50000	17.4 %	*
22 *			.00000	0 %	* - N.V.
23 *			.00000	0 %	* - N.V.
24 *			.00000	0 %	* - N.V.
25 *	152.00000	184.00000	168.00000	13.5 %	*
26 *			.00000	0 %	* - N.V.
27 *	242.00000	225.00000	233.50000	5.1 %	*
28 *			.00000	0 %	* - N.V.
29 *	102.10000	102.00000	102.05000	.1 %	*



Analysis

Kolmogorov-Smirnov test on assuming a Normal distribution. 1 % unreliability;

10 laboratory observations

Maximum absolute difference from Normal distribution: 0.10129. Critical value: 0.48900. KS-test passed

No outliers found

Summary

1. Eliminations due to

1.1 Repeatability = 0

1.2 Reproducibility = 0

1.3 Manual rejected = 0

2. General Mean = 188.62000

3. Repeatability

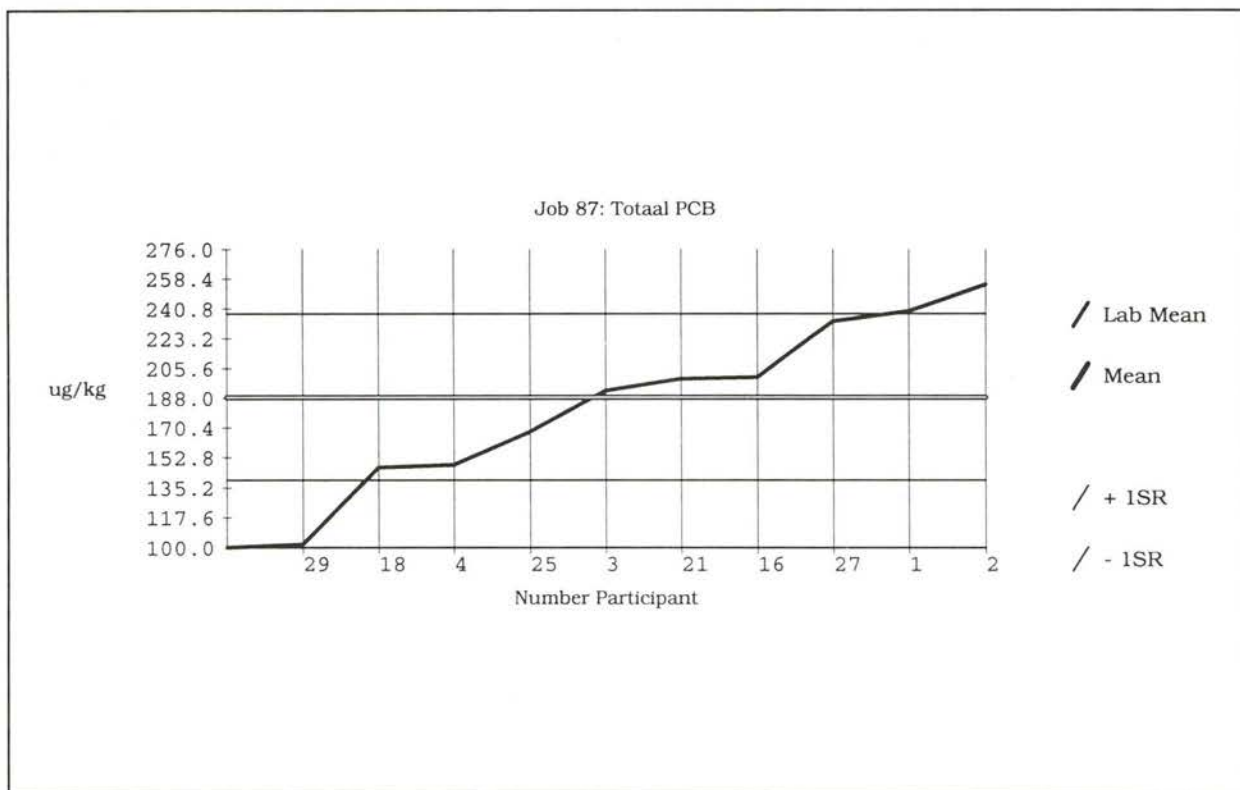
3.1 Standard deviation $S_r = 16.13918$

3.2 Coefficient of variation = 9 %

4. Reproducibility

4.1 Standard deviation $S_R = 49.09886$

4.2 Coefficient of variation = 26 %



Job Classification

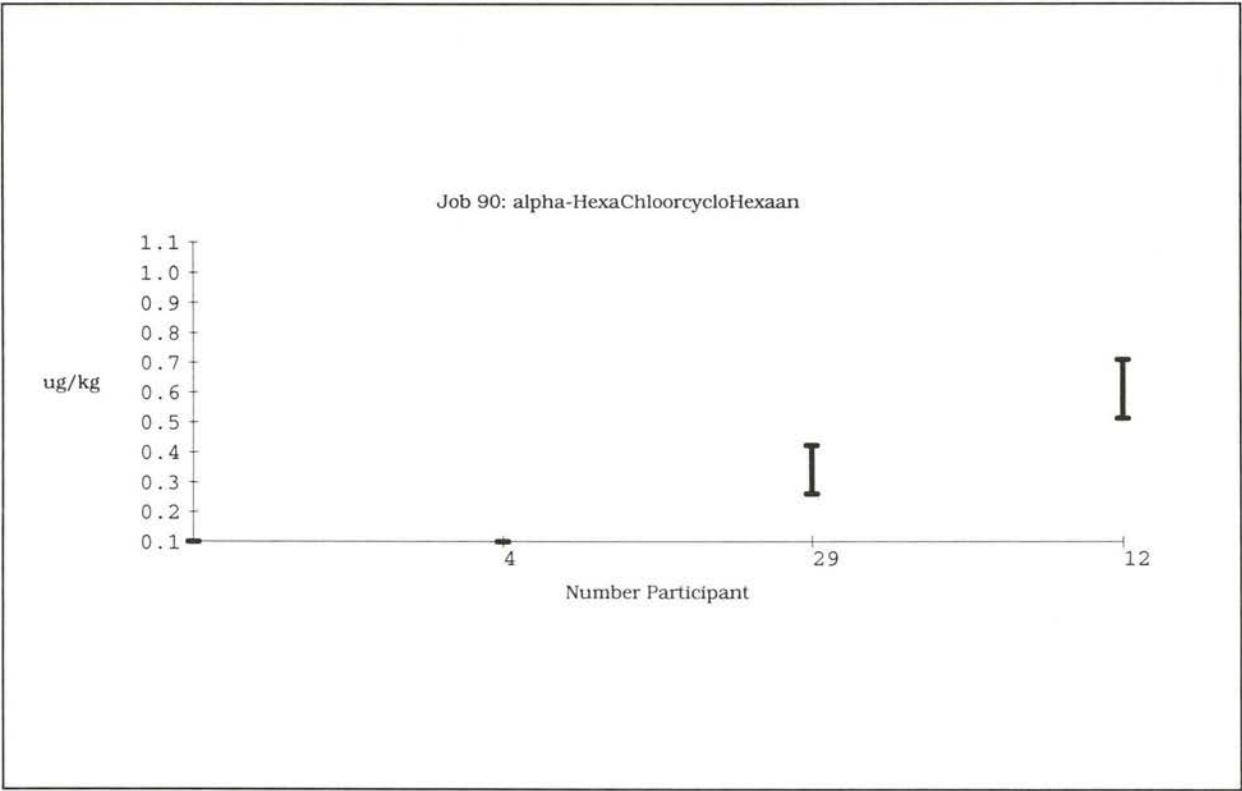
Lab *	Mean *	Clas *	Ext *	Clean *	Det *	Procedure *	
7 *	.00000 *	G *	? *	? *	? *	? *	*
13 *	.00000 *	G *	- *	- *	- *	- *	*
19 *	.00000 *	G *	- *	- *	- *	- *	*
24 *	.00000 *	G *	- *	- *	- *	- *	*
8 *	.00000 *	G *	? *	? *	? *	? *	*
14 *	.00000 *	G *	- *	- *	- *	- *	*
9 *	.00000 *	G *	- *	- *	- *	- *	*
15 *	.00000 *	G *	? *	? *	? *	? *	*
20 *	.00000 *	G *	- *	- *	- *	- *	*
26 *	.00000 *	G *	- *	- *	- *	- *	*
10 *	.00000 *	G *	- *	- *	- *	- *	*
11 *	.00000 *	G *	- *	- *	- *	- *	*
17 *	.00000 *	G *	- *	- *	- *	- *	*
22 *	.00000 *	G *	- *	- *	- *	- *	*
28 *	.00000 *	G *	- *	- *	- *	- *	*
5 *	.00000 *	G *	- *	- *	- *	- *	*
12 *	.00000 *	G *	- *	- *	- *	- *	*
23 *	.00000 *	G *	- *	- *	- *	- *	*
6 *	.00000 *	G *	? *	? *	? *	? *	*
29 *	102.05000 *	B *	- *	- *	- *	- *	*
18 *	147.00000 *	A *	LA *	C *	GDE *	HUIS *	*
4 *	148.70000 *	A *	- *	- *	- *	- *	*
25 *	168.00000 *	A *	LH *	- *	GDE *	NEN 5734 *	*
3 *	192.50000 *	A *	- *	- *	GDE *	NEN 5734 *	*
21 *	199.50000 *	A *	LP *	- *	GSM *	HUIS *	*
16 *	200.50000 *	A *	LE *	SC *	GDE *	HUIS *	*
27 *	233.50000 *	A *	- *	- *	- *	HUIS *	*
1 *	239.45000 *	B *	- *	- *	- *	- *	*
2 *	255.00000 *	B *	- *	- *	- *	- *	*

General Mean = 188.62000
Between lab standard deviation SL = 46.37052
Coefficient of variation = 25 %
Number of laboratories = 10

A: Number of laboratories with	Z	-scores between 0 and 1	; 7
B: Number of laboratories with	Z	-scores between 1 and 2	; 3
C: Number of laboratories with	Z	-scores between 2 and 3	; 0
D: Number of laboratories with	Z	-scores larger than 3	; 0

Job 90 : 99090, 99094
alpha-HexaChloorcycloHexaan, aHCH in ug/kg Sediment (Lake)

Lab *	X1 *	X2 *	Average *	%Variance *	
1 *	1.00000 *	1.00000 *	.00000 *	0 % *	< N.V.
2 *	4.00000 *	4.00000 *	.00000 *	0 % *	< N.V.
3 *	1.00000 *	1.00000 *	.00000 *	0 % *	< N.V.
4 *	.05000 *	.05000 *	.05000 *	.0 % *	
5 *			.00000 *	0 % *	- N.V.
6 *			.00000 *	0 % *	- N.V.
7 *			.00000 *	0 % *	- N.V.
8 *			.00000 *	0 % *	- N.V.
9 *			.00000 *	0 % *	- N.V.
10 *			.00000 *	0 % *	- N.V.
11 *			.00000 *	0 % *	- N.V.
12 *	.63000 *	.34000 *	.48500 *	42.3 % *	
13 *	1.00000 *	1.00000 *	.00000 *	0 % *	< N.V.
14 *			.00000 *	0 % *	- N.V.
15 *			.00000 *	0 % *	- N.V.
16 *	5.00000 *	5.00000 *	.00000 *	0 % *	< N.V.
17 *	2.00000 *	2.00000 *	.00000 *	0 % *	< N.V.
18 *	.40000 *	.40000 *	.00000 *	0 % *	< N.V.
19 *	1.00000 *	1.00000 *	.00000 *	0 % *	< N.V.
20 *	.30000 *	.30000 *	.00000 *	0 % *	< N.V.
21 *	1.00000 *	1.00000 *	.00000 *	0 % *	< N.V.
22 *	1.00000 *	1.00000 *	.00000 *	0 % *	< N.V.
23 *			.00000 *	0 % *	- N.V.
24 *			.00000 *	0 % *	- N.V.
25 *	1.00000 *	1.00000 *	.00000 *	0 % *	< N.V.
26 *			.00000 *	0 % *	- N.V.
27 *	2.50000 *	2.50000 *	.00000 *	0 % *	< N.V.
28 *	40.00000 *	40.00000 *	.00000 *	0 % *	< N.V.
29 *	.10000 *	.34000 *	.22000 *	77.1 % *	



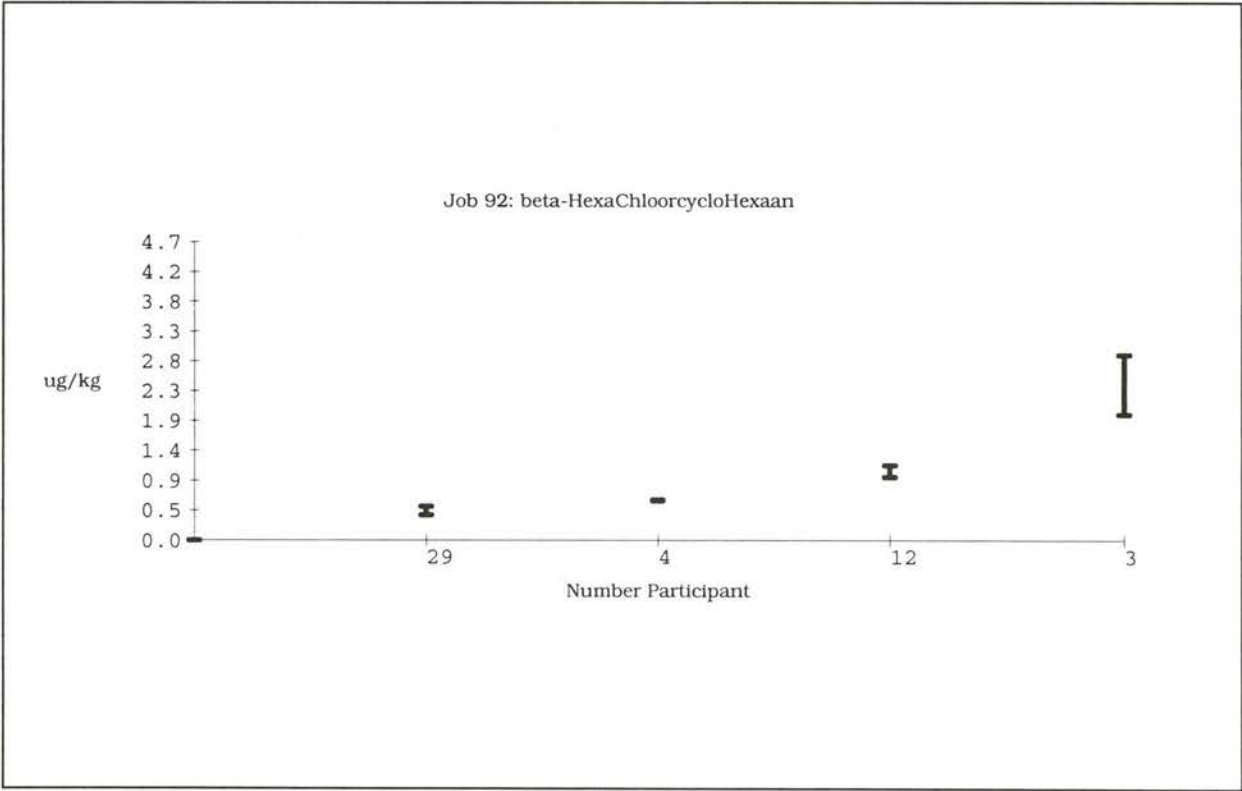
Job Classification

Lab *	Mean *	Clas *	Ext *	Clean *	Det *	Procedure *	
7 *	.00000 *	N *	? *	? *	? *	? *	*
13 *	.00000 *	N *	LA *	S *	GDE *	NEN 5718/6406	*
19 *	.00000 *	N *	LE *	C *	GDE *	G-NEN 5734	*
24 *	.00000 *	N *	- *	- *	- *	- *	*
1 *	.00000 *	N *	- *	- *	- *	- *	*
8 *	.00000 *	N *	? *	? *	? *	? *	*
14 *	.00000 *	N *	- *	- *	- *	- *	*
25 *	.00000 *	N *	LH *	- *	GDE *	NEN 5734	*
2 *	.00000 *	N *	- *	- *	- *	- *	*
9 *	.00000 *	N *	- *	- *	- *	- *	*
15 *	.00000 *	N *	? *	? *	? *	? *	*
20 *	.00000 *	N *	LE *	SC *	GDE *	A-O-NEN 5718	*
26 *	.00000 *	N *	- *	- *	- *	- *	*
3 *	.00000 *	N *	- *	- *	GDE *	NEN 5734	*
10 *	.00000 *	N *	- *	- *	- *	- *	*
16 *	.00000 *	N *	LE *	SC *	GDE *	HUIS	*
21 *	.00000 *	N *	LP *	- *	GSM *	HUIS	*
27 *	.00000 *	N *	- *	- *	- *	HUIS	*
11 *	.00000 *	N *	- *	- *	- *	- *	*
17 *	.00000 *	N *	LE *	SC *	GDE *	HUIS	*
22 *	.00000 *	N *	- *	- *	- *	- *	*
28 *	.00000 *	N *	- *	- *	- *	NEN 5734	*
5 *	.00000 *	N *	- *	- *	- *	- *	*
18 *	.00000 *	N *	LA *	C *	GDE *	HUIS	*
23 *	.00000 *	N *	- *	- *	- *	- *	*
6 *	.00000 *	N *	- *	- *	- *	- *	*
4 *	.05000 *	N *	- *	- *	- *	- *	*
29 *	.22000 *	N *	LE *	LLSC *	GDE *	HUIS	*
12 *	.48500 *	N *	Z *	Z *	GDE *	HUIS	*

```

Job 92 : 99090, 99094
beta-HexaChloorcycloHexaan, bHCH in ug/kg Sediment (Lake)
Lab *      X1 *      X2 * Average * %Variance *
1 * 1.00000 * 1.00000 * .00000 * 0 % * < N.V.
2 * 8.00000 * 10.00000 * .00000 * 0 % * < N.V.
3 * 2.65000 * 1.33000 * 1.99000 * 46.9 % *
4 * .63500 * .61200 * .62350 * 2.6 % *
5 * * * * .00000 * 0 % * - N.V.
6 * * * * .00000 * 0 % * - N.V.
7 * * * * .00000 * 0 % * - N.V.
8 * * * * .00000 * 0 % * - N.V.
9 * * * * .00000 * 0 % * - N.V.
10 * * * * .00000 * 0 % * - N.V.
11 * * * * .00000 * 0 % * - N.V.
12 * .86000 * 1.13000 * .99500 * 19.2 % *
13 * 16.40000 * 17.10000 * 16.75000 * 3.0 % *
14 * * * * .00000 * 0 % * - N.V.
15 * * * * .00000 * 0 % * - N.V.
16 * 5.00000 * 5.00000 * .00000 * 0 % * < N.V.
17 * 2.00000 * 2.00000 * .00000 * 0 % * < N.V.
18 * .50000 * .50000 * .00000 * 0 % * < N.V.
19 * 1.00000 * 1.00000 * .00000 * 0 % * < N.V.
20 * 5.00000 * 5.00000 * .00000 * 0 % * < N.V.
21 * 1.00000 * 1.00000 * .00000 * 0 % * < N.V.
22 * .80000 * 1.00000 * .00000 * 0 % *
23 * * * * .00000 * 0 % * - N.V.
24 * * * * .00000 * 0 % * - N.V.
25 * 1.00000 * 1.00000 * .00000 * 0 % * < N.V.
26 * * * * .00000 * 0 % * - N.V.
27 * 2.50000 * 2.50000 * .00000 * 0 % * < N.V.
28 * 40.00000 * 40.00000 * .00000 * 0 % * < N.V.
29 * .50000 * .30000 * .40000 * 35.4 % *

```

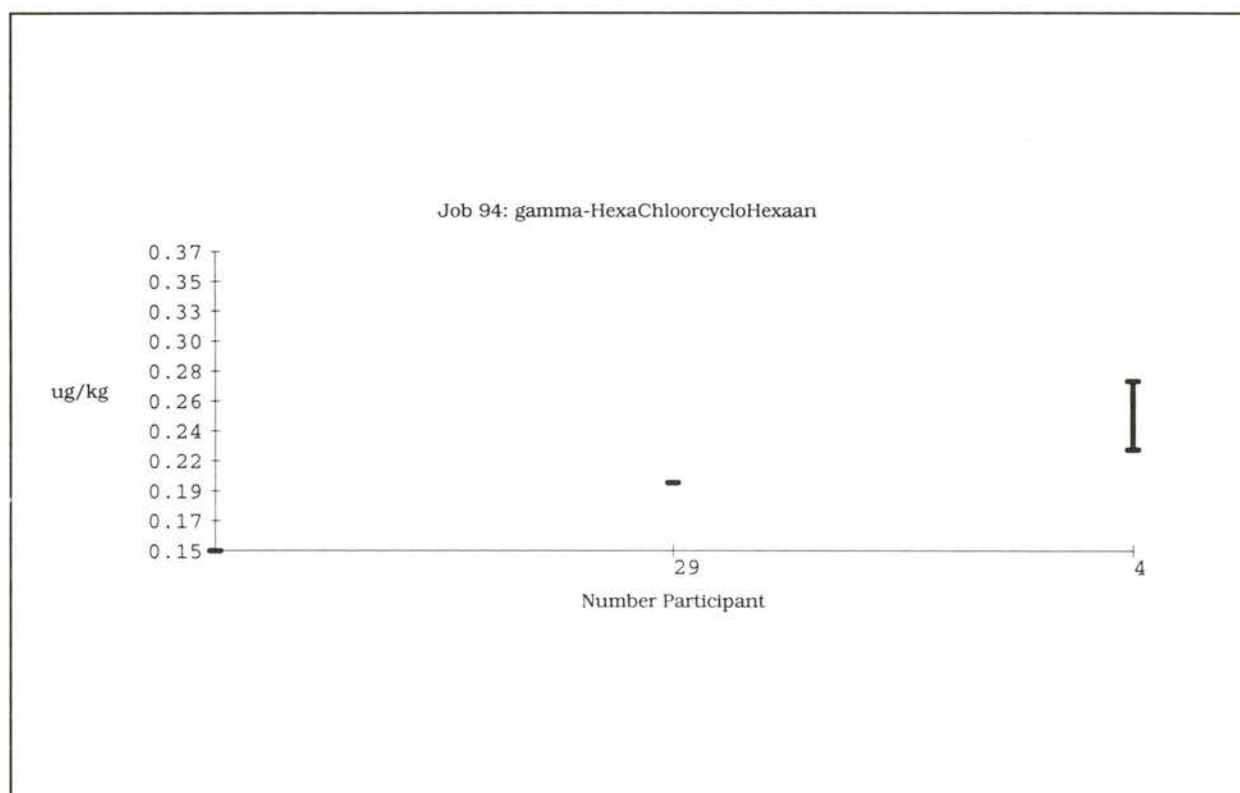


Job Classification

Lab *	Mean *	Clas *	Ext *	Clean *	Det *	Procedure *	
7 *	.00000 *	N *	? *	? *	? *	? *	*
19 *	.00000 *	N *	LE *	C *	GDE *	G-NEN 5734	*
24 *	.00000 *	N *	- *	- *	- *	- *	*
1 *	.00000 *	N *	- *	- *	- *	- *	*
8 *	.00000 *	N *	? *	? *	? *	? *	*
14 *	.00000 *	N *	- *	- *	- *	- *	*
25 *	.00000 *	N *	LH *	- *	GDE *	NEN 5734	*
2 *	.00000 *	N *	- *	- *	- *	- *	*
9 *	.00000 *	N *	- *	- *	- *	- *	*
15 *	.00000 *	N *	? *	? *	? *	? *	*
20 *	.00000 *	N *	LE *	SC *	GDE *	A-O-NEN 5718	*
26 *	.00000 *	N *	- *	- *	- *	- *	*
10 *	.00000 *	N *	- *	- *	- *	- *	*
16 *	.00000 *	N *	LE *	SC *	GDE *	HUIS	*
21 *	.00000 *	N *	LP *	- *	GSM *	HUIS	*
27 *	.00000 *	N *	- *	- *	- *	HUIS	*
11 *	.00000 *	N *	- *	- *	- *	- *	*
17 *	.00000 *	N *	LE *	SC *	GDE *	HUIS	*
22 *	.00000 *	N *	- *	- *	- *	- *	*
28 *	.00000 *	N *	- *	- *	- *	NEN 5734	*
5 *	.00000 *	N *	- *	- *	- *	- *	*
18 *	.00000 *	N *	LA *	C *	GDE *	HUIS	*
23 *	.00000 *	N *	- *	- *	- *	- *	*
6 *	.00000 *	N *	- *	- *	- *	- *	*
29 *	.40000 *	N *	LE *	LLSC *	GDE *	HUIS	*
4 *	.62350 *	N *	- *	- *	- *	- *	*
12 *	.99500 *	N *	Z *	Z *	GDE *	HUIS	*
3 *	1.99000 *	N *	- *	- *	GDE *	NEN 5734	*
13 *	16.75000 *	N *	LA *	S *	GDE *	NEN 5718/6406	*

Job 94 : 99090, 99094
 gamma-HexachloorcycloHexaan, cHCH in ug/kg Sediment (Lake)

Lab *	X1 *	X2 *	Average *	%Variance *	
1 *	1.00000	1.00000	.00000	0 %	* < N.V.
2 *	28.00000	29.00000	.00000	0 %	* < N.V.
3 *	1.00000	1.00000	.00000	0 %	* < N.V.
4 *	.18900	.26000	.22450	22.4 %	* < N.V.
5 *			.00000	0 %	* - N.V.
6 *			.00000	0 %	* - N.V.
7 *			.00000	0 %	* - N.V.
8 *			.00000	0 %	* - N.V.
9 *			.00000	0 %	* - N.V.
10 *			.00000	0 %	* - N.V.
11 *			.00000	0 %	* - N.V.
12 *	1.00000	1.00000	.00000	0 %	* < N.V.
13 *	1.00000	1.00000	.00000	0 %	* < N.V.
14 *			.00000	0 %	* - N.V.
15 *			.00000	0 %	* - N.V.
16 *	5.00000	5.00000	.00000	0 %	* < N.V.
17 *	2.00000	2.00000	.00000	0 %	* < N.V.
18 *	.30000	.30000	.00000	0 %	* < N.V.
19 *	1.00000	1.00000	.00000	0 %	* < N.V.
20 *	.50000	.50000	.00000	0 %	* < N.V.
21 *	1.00000	1.00000	.00000	0 %	* < N.V.
22 *	.50000	.50000	.00000	0 %	* < N.V.
23 *			.00000	0 %	* - N.V.
24 *			.00000	0 %	* - N.V.
25 *	1.00000	1.00000	.00000	0 %	* < N.V.
26 *			.00000	0 %	* - N.V.
27 *	2.50000	2.50000	.00000	0 %	* < N.V.
28 *	40.00000	40.00000	.00000	0 %	* < N.V.
29 *	.20000	.20000	.20000	.0 %	* < N.V.



Job Classification

Lab *	Mean *	Clas *	Ext *	Clean *	Det *	Procedure *	
7 *	.00000 *	N *	? *	? *	? *	? *	*
13 *	.00000 *	N *	LA *	S *	GDE *	NEN 5718/6406	*
19 *	.00000 *	N *	LE *	C *	GDE *	G-NEN 5734	*
24 *	.00000 *	N *	- *	- *	- *	- *	*
1 *	.00000 *	N *	- *	- *	- *	- *	*
8 *	.00000 *	N *	? *	? *	? *	? *	*
14 *	.00000 *	N *	- *	- *	- *	- *	*
25 *	.00000 *	N *	LH *	- *	GDE *	NEN 5734	*
2 *	.00000 *	N *	- *	- *	- *	- *	*
9 *	.00000 *	N *	- *	- *	- *	- *	*
15 *	.00000 *	N *	? *	? *	? *	? *	*
20 *	.00000 *	N *	LE *	SC *	GDE *	A-O-NEN 5718	*
26 *	.00000 *	N *	- *	- *	- *	- *	*
3 *	.00000 *	N *	- *	- *	GDE *	NEN 5734	*
10 *	.00000 *	N *	- *	- *	- *	- *	*
16 *	.00000 *	N *	LE *	SC *	GDE *	HUIS	*
21 *	.00000 *	N *	LP *	- *	GSM *	HUIS	*
27 *	.00000 *	N *	- *	- *	- *	HUIS	*
11 *	.00000 *	N *	- *	- *	- *	- *	*
17 *	.00000 *	N *	LE *	SC *	GDE *	HUIS	*
22 *	.00000 *	N *	- *	- *	- *	- *	*
28 *	.00000 *	N *	- *	- *	- *	NEN 5734	*
5 *	.00000 *	N *	- *	- *	- *	- *	*
12 *	.00000 *	N *	Z *	Z *	GDE *	HUIS	*
18 *	.00000 *	N *	LA *	C *	GDE *	HUIS	*
23 *	.00000 *	N *	- *	- *	- *	- *	*
6 *	.00000 *	N *	- *	- *	- *	- *	*
29 *	.20000 *	N *	LE *	LLSC *	GDE *	HUIS	*
4 *	.22450 *	N *	- *	- *	- *	- *	*

Job 96 : 99090, 99094
 delta-HexaChloorCycloHexaan, dHCH in ug/kg Sediment (Lake)

Lab *	X1 *	X2 *	Average *	%Variance *
1 *	1.00000	1.00000	.00000	0 %
2 *	4.00000	4.00000	.00000	0 %
3 *	1.00000	1.00000	.00000	0 %
4 *			.00000	0 %
5 *			.00000	0 %
6 *			.00000	0 %
7 *			.00000	0 %
8 *			.00000	0 %
9 *			.00000	0 %
10 *			.00000	0 %
11 *			.00000	0 %
12 *			.00000	0 %
13 *			.00000	0 %
14 *			.00000	0 %
15 *			.00000	0 %
16 *			.00000	0 %
17 *			.00000	0 %
18 *			.00000	0 %
19 *			.00000	0 %
20 *			.00000	0 %
21 *	1.00000	1.00000	.00000	0 %
22 *			.00000	0 %
23 *			.00000	0 %
24 *			.00000	0 %
25 *			.00000	0 %
26 *			.00000	0 %
27 *	2.50000	2.50000	.00000	0 %
28 *			.00000	0 %
29 *			.00000	0 %

Job Classification

Lab *	Mean *	Clas *	Ext *	Clean *	Det *	Procedure *
7 *	.00000	N	*	?	*	?
13 *	.00000	N	*	-	*	-
19 *	.00000	N	*	-	*	-
24 *	.00000	N	*	-	*	-
1 *	.00000	N	*	-	*	-
8 *	.00000	N	*	?	*	?
14 *	.00000	N	*	-	*	-
25 *	.00000	N	*	-	*	-
2 *	.00000	N	*	-	*	-
9 *	.00000	N	*	-	*	-
15 *	.00000	N	*	?	*	?
20 *	.00000	N	*	-	*	-
26 *	.00000	N	*	-	*	-
3 *	.00000	N	*	-	GDE	NEN 5734
10 *	.00000	N	*	-	*	-
16 *	.00000	N	*	-	*	-
21 *	.00000	N	*	LP	GSM	HUIS
27 *	.00000	N	*	-	*	HUIS
4 *	.00000	N	*	-	*	-
11 *	.00000	N	*	-	*	-
17 *	.00000	N	*	-	*	-
22 *	.00000	N	*	-	*	-
28 *	.00000	N	*	-	*	-
5 *	.00000	N	*	-	*	-
12 *	.00000	N	*	-	*	-
18 *	.00000	N	*	-	*	-
23 *	.00000	N	*	-	*	-
29 *	.00000	N	*	-	*	-
6 *	.00000	N	*	-	*	-

AN ORIGINAL BINDOMATIC DFS COVER
Classic 6 mm for 31-60 sheets