

Proficiency Testing Scheme for Water Analysis

**Round C60
Volatile Halogenated Hydrocarbons**

Sample Dispatch: 1 April 2019





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and Life Sciences, Vienna**

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Round: 60	Date / Signature:	7.5.2018 W. Kandler

This report has 89 pages.

This report summarises the results of round C60 "Volatile Halogenated Hydrocarbons" within the IFA-Test Systems Proficiency-Testing Scheme for water analysis. The samples C60A and C60B were distributed to the participants on Monday, 1 April 2019. Closing date for reporting results to the IFA-Tulln was Friday, 2 May 2019.

23 laboratories participated in this interlaboratory comparison. 22 laboratories submitted results.

Samples

For sample preparation, ultrapure water was spiked with concentrated solutions of inorganic salts in order to simulate the ionic composition of natural ground water. The following salts were added to the samples: Mg(NO₃)₂, MgSO₄, Na₂SO₄, NaHCO₃, KHCO₃, CaCl₂ and Ca(NO₃)₂. Prior to sample preparation, blank samples of ultrapure water and artificial water matrix were analysed by Purge&Trap-GC-MS to exclude contamination with halogenated hydrocarbons and other interfering substances.

The samples were spiked with traces of trichloroethene, trichloromethane, 1,1,1-trichloroethane, tetrachloromethane, tribromomethane, tetrachloroethene, bromodichloromethane, 1,2-dichloroethane, dibromochloromethane, 1,1-dichloroethene, dichloromethane, cis-1,2-dichloroethene and trans-1,2-dichloroethene.

The calculation of the mass concentrations of the compounds was based on the weights of standards added to the samples.

Homogeneity, accuracy and stability tests at the IFA-Tulln

For verification of homogeneity samples were analysed for the compounds of interest by Purge&Trap-GC-MS measurements prior to shipment to the participants. The results of the measurements are listed in the result tables and the parameter oriented part of the report ("IFA result").

Stability tests for the water samples of the present round were carried out four weeks after sample dispatch. The results of the measurements are listed in the result tables and the parameter oriented part of the report ("Stability test").

Results

Data evaluation was based on target concentrations that were calculated from the weights of the standards used to prepare the samples. Their uncertainty intervals correspond to the expanded uncertainty (coverage factor k = 2) as described in the EURACHEM/CITAC Guide "Quantifying Uncertainty in Analytical Measurement, 3rd Edition (2012)".

Recoveries for individual laboratory results and overall mean values were calculated from these target concentrations. The results were tested for outliers using the Hampel outlier test (level of significance 99 %). A minimum number of four results was required for the outlier test.

The target concentrations of tribromomethane, tetrachloroethene and 1,2-dichloroethane, which were not added to the sample C60A or C60B, were set to <0.04 µg/l tribromomethane, <0.06 µg/l tetrachloroethene and <0.4 µg/l 1,2-dichloroethane, which meets the minimum quantifiable values defined by the Austrian ground and river water monitoring program and the quantification limits of the analytical methods applied at the IFA-Tulln.

Standard deviations and coefficients of variation (CVs) were only calculated when at least three results were available. The recoveries of the target concentrations, calculated from outlier-corrected data mean values ranged between 87.8 % (tetrachloroethene in sample C60A) and 110.9 % (1,1-dichloroethene in sample C60A). The between-laboratory coefficients of variation were between 7.0 % (1,1-dichloroethene in sample C60B) and 19.9 % (dichloromethane in sample C60A). The between laboratory CVs covered the range between 7.0 % (1,1-dichloroethene in sample C60B) and 19.9 % (dichloromethane in sample C60A).

All confidence intervals of the outlier-corrected laboratory mean values encompass the corresponding target values with their uncertainties. Thus, statistically, no difference could be detected between theoretical target concentrations and outlier corrected laboratory means.

z-Scores

The most common approach is to form the z-score given by

$$z = \frac{x_i - \bar{x}}{\sigma}$$

z z-score
 x_i result of laboratory
 \bar{x} target value or mean value („consensus value“)
 σ standard deviation

Thus, the z-score is the ratio of the estimated bias (difference between result and target value) and a standard deviation. The z-score criteria were determined from relative standard deviations from all interlaboratory comparisons that were organised by the IFA-Tulln in the period from 2008 to 2018. They represent long-term performance data of all former participating laboratories. The z-scores are listed together with the recoveries in the tables of the parameter oriented part.

Additionally, each laboratory obtained for every sample a single sheet that summarises the z-scores of the laboratory in graphical and tabular form.

The following table lists the z-score criteria as relative standard deviation and their limits of applicability. Z-scores were only calculated, if the target values were higher than these limits.

Parameter	z-Score-criteria (%)	Lower limit [µg/L]
1,1,1-Trichloroethane	15	0.15
1,1-Dichloroethene	19	0.4
1,2-Dichloroethane	13	0.5
cis-1,2-Dichloroethene	14	0.15
trans-1,2-Dichloroethene	13	0.15
Bromodichloromethane	14	0.15
Dibromochloromethane	15	0.2
Dichloromethane	13	1
Tetrachloroethene	16	0.15
Tetrachloromethane	18	0.15
Tribromomethane	16	0.2
Trichloroethene	15	0.15
Trichloromethane	15	0.25

Normally, a classification based on z-scores is made this way:

z-Score	Classification
<2	satisfactory
2< z <3	questionable
>3	unsatisfactory

Please note that this evaluation is made on the background of the average performance of all participants of the IFA-Test-Systems proficiency testing scheme during the period from 2008 to 2018.

Illustration of results

An explanation to the illustration of the results is given on the following page.

The **laboratory oriented part** contains the measurement results and reported uncertainties of each individual laboratory for all parameters together with the achieved recoveries in graphical and tabular form. This part of the report also lists tables with the results originally reported by the laboratories.

In the **parameter oriented part** the reported results and corresponding uncertainties are illustrated together with recoveries of the target values and the z-scores for each parameter and all laboratories. This information is presented in graphical and tabular form. Results, which were identified as outliers by the Hampel test are marked with an asterisk in the column "out". These values were not considered for the calculation of statistical parameters (mean values, standard deviations and confidence intervals). Moreover, the parameter oriented part contains the uncertainties of the target value. The uncertainty intervals correspond to the expanded uncertainty (coverage factor $k = 2$) as described in the EURACHEM / CITAC Guide "Quantifying Uncertainty in Analytical Measurement 3rd Edition (2012)". The uncertainty interval of the reference concentration is illustrated in the graphs as a grey band around the 100 % recovery line.

Results, for which no recoveries could be calculated, are illustrated by one of the following symbols: **FN** (false negative), **FP** (false positive) or • - symbol.

- "FN": a result is considered false negative when the "< result" reported is lower than the corresponding target value
- "FP": False positive results can be obtained for compounds not added to the samples: a result is termed FP if it is higher than the corresponding limit of quantification of the analytical procedure employed at the IFA-Tulln.
- "•": All other results for which no recovery can be calculated are illustrated by this symbol

Tulln, 07 May 2019

EXPLANATION

Sample C10B

Parameter Dichloromethane

Target value $\pm U (k=2)$ $10,4 \mu\text{g/l} \pm 0,5 \mu\text{g/l}$ **Obtained from mass weighed out, $U = \text{uncertainty}$**

IFA result $\pm U (k=2)$ $10,2 \mu\text{g/l} \pm 1,0 \mu\text{g/l}$ **Determined at IFA prior to shipment of samples**

Stability test $\pm U (k=2)$ $10,2 \mu\text{g/l} \pm 1,0 \mu\text{g/l}$ **Determined at IFA 5 weeks after sample dispatch**

Lab code	Result	Out	$+/ -$	Unit	Recovery	z-Score
A	11,0		1,28	$\mu\text{g/l}$	106 %	0,30
B	9,0		1,8	$\mu\text{g/l}$	87 %	-0,71
C	10		2	$\mu\text{g/l}$	96 %	-0,20
D				$\mu\text{g/l}$		
E	13,7		0,40	$\mu\text{g/l}$	132 %	1,67
F	6,8		0,7	$\mu\text{g/l}$	65 %	-1,82
G	< 20			$\mu\text{g/l}$		
H				$\mu\text{g/l}$		
I	11,0			$\mu\text{g/l}$	106 %	0,30
J	24,1	*	1,51	$\mu\text{g/l}$	232 %	6,93
K	10,09		1,22	$\mu\text{g/l}$	97 %	-0,16
L	2,76	*		$\mu\text{g/l}$	27 %	-3,87
M	6,38		1,87	$\mu\text{g/l}$	61 %	-2,03
N	< 5		0,5	$\mu\text{g/l}$	FN	
O	15,6	*	4	$\mu\text{g/l}$	150 %	2,63
P	10,3		1,0	$\mu\text{g/l}$	99 %	-0,05
Q	10		1,14	$\mu\text{g/l}$	96 %	-0,20
R	8,88		0,46	$\mu\text{g/l}$	85 %	-0,77
S				$\mu\text{g/l}$		
T	9,03		0,08	$\mu\text{g/l}$	87 %	-0,69
U	22,5	*	0,5	$\mu\text{g/l}$	216 %	6,12
V	10,33		0,25	$\mu\text{g/l}$	99 %	-0,04

An asterisk indicates a result detected as outlier by Hampel test

Interval expected to encompass target value as stated by participant

	All results	Outliers excl.	Unit
Mean $+/ -$ CI (99%)	$11,3 \pm 3,8$	$9,7 \pm 1,6$	$\mu\text{g/l}$
Recov. $+/ -$ CI (99%)	$108,3 \pm 36,3$	$93,6 \pm 15,1$	%
SD between labs	5,3		$\mu\text{g/l}$
RSD between labs	47,3		%
n for calculation	17	13	

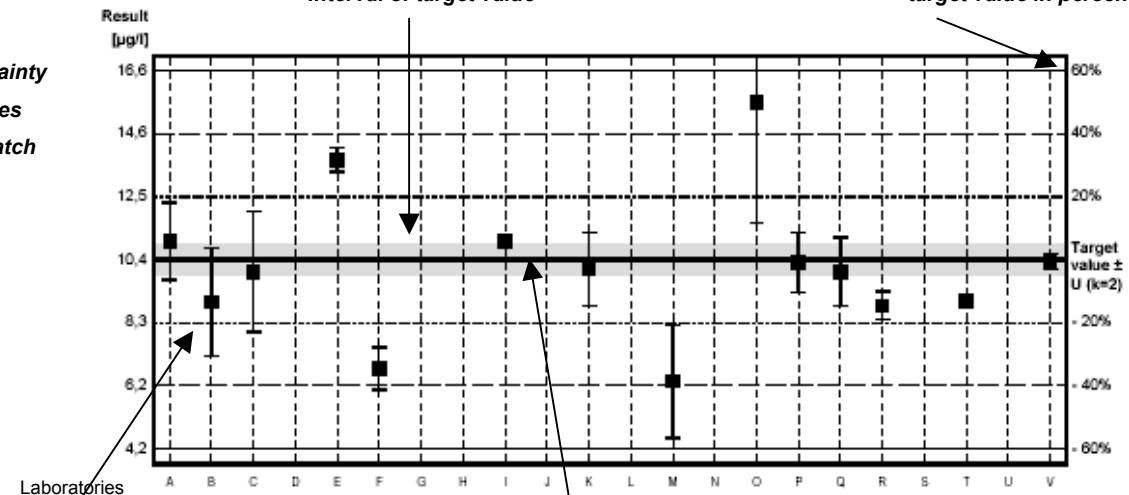
Between laboratory standard deviation

Number of data used for calculation of statistic parameters

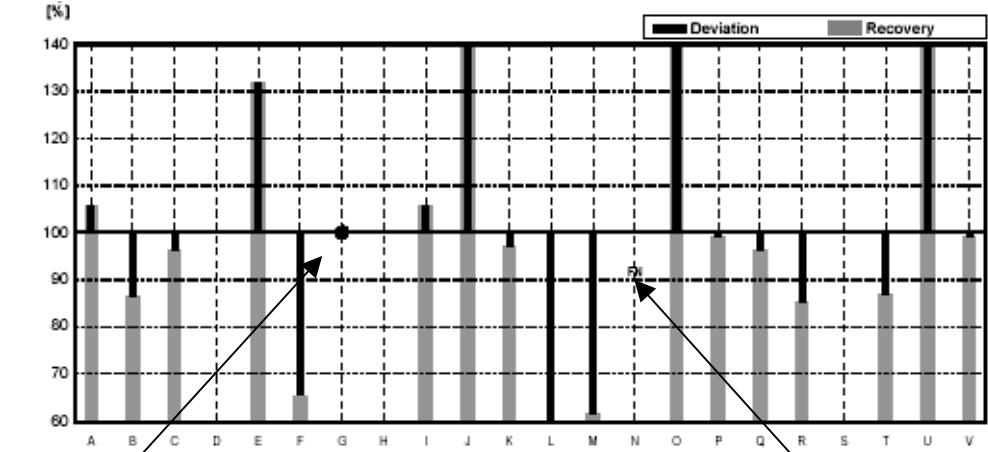
Overall laboratory mean and recovery with corresponding confidence intervals ($p=99\%$)

grey band illustrates uncertainty interval of target value

Relative deviation from target value in percent



Recovery [%]



Result neither false positive, false negative nor possible to calculate recovery

False negative: reported " $<$ -result" is lower than target value

Diagram 2. Recoveries and deviations from target values

Illustration of Results Tables and Parameter Oriented Part

Round C60
Volatile Halogenated Hydrocarbons

Sample Dispatch: 1 April 2019



Results Sample C60A

	Trichloro-ethene	Tetrachloro-ethene	1,1,1-Tri-chloroethane	Trichloro-methane	Tetrachloro-methane	1,1-Dichloro-ethene	Tribromo-methane
Target value	2.14	1.35	0.25	0.28	0.73	1.77	<0.04
IFA Result	2.16	1.35	0.26	0.28	0.73	1.77	<0.02
Stability test	2.25	1.39	0.27	0.28	0.76	1.86	<0.02
A	1.273	0.840		0.940	0.500		<0.131
B	2.30	1.33	0.275	0.284	0.743	2.06	<0.10
C	2.06	1.24	0.245	0.261	0.689	1.830	<0.020
D							
E	2.71	2.09	0.26	0.34	0.71	2.39	<0.1
F	2.22	1.39	0.25	0.23	0.75	1.68	<0.05
G	2.01	0.90	0.15	0.12	0.74	3.89	<0.1
H	2.9	2.5	0.3	0.4	1.3		<0.2
I	1.81	1.10	0.24	0.25	0.66	2.43	<ng
J	1.41	0.84	0.14	0.20	0.38		<0.10
K	2.10	1.08	0.23	<1.3	0.65	2.49	<1.8
L	2.09	1.43	0.275	0.258	0.830	2.03	<0.1
M	2.07	1.24	0.25	0.26	0.77	n.a.	<0.10
N	2.05	1.32	0.20	0.33	0.83	1.84	<0.2
O	9.22	5.02	0.27	0.35	2.93	n.a	<0.1
P	2.21	1.43	0.27	0.29	0.74	2.02	<0.1
Q	2.06	1.25	0.24	0.27	0.71	1.61	<0.03
R	1.43	0.78	0.17	<0.2	0.53		<0.2
S	2.150	1.279	0.255	0.269	0.800	1.928	<0.14
T	2.3	1.4	<1.0	<1.0	<1.0	1.9	<1.0
U	1.84	1.29	0.25	0.28	0.76	1.73	<0.1
V	2.02	1.18	0.24	0.28	0.59	1.75	<0.1
W	1.96	1.19	0.260	0.285	0.699	1.76	<0.10

All data in µg/L

Uncertainties Sample C60A

	Trichloro-ethene ±	Tetrachloro-ethene ±	1,1,1-Tri-chloroethane ±	Trichloro-methane ±	Tetrachloro-methane ±	1,1-Dichloro-ethene ±	Tribromo-methane ±
Target value	0.11	0.07	0.01	0.01	0.04	0.09	
IFA Result	0.32	0.20	0.04	0.04	0.11	0.27	
Stability test	0.34	0.21	0.04	0.04	0.11	0.28	
A							
B	0.17	0.11	0.05	0.06	0.19	0.40	
C	0.33	0.35	0.049	0.063	0.138	0.458	
D							
E	0.41	0.31	0.04	0.05	0.11	0.48	
F	0.10	0.08	0.01	0.01	0.10	0.07	
G	0.19	0.07	0.02	0.02	0.07	0.32	
H							
I	0.49	0.22	0.05	0.05	0.13	0.49	
J	0.32	0.24	0.03	0.05	0.10		
K	0.32	0.16	0.03		0.10	0.37	
L	0.42	0.29	0.055	0.052	0.166	0.41	
M	0.30	0.20	0.10	0.10	0.10		
N	0.44	0.30	0.10	0.10	0.10	0.10	
O	2.3	1.3	0.07	0.09	0.73		0.05
P	0.57	0.37	0.07	0.08	0.19	0.52	0.03
Q	0.41	0.25	0.05	0.05	0.14	0.32	
R	0.36	0.20	0.04	0.05	0.13		0.05
S	0.323	0.281	0.051	0.062	0.136	0.482	
T	0.1	0.1				0.1	
U	0.2	0.15	0.025	0.03	0.08	0.18	
V	0.30	0.18	0.04	0.04	0.09	0.26	
W	0.00832	0.00384	0.00182	0.00121	0.00507	0.01375	

All data in µg/L

Results Sample C60A

	Bromodichloro-methane	Dibromochloro-methane	Dichloro-methane	1,2-Dichloro-ethane	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene
Target value	0.41	0.39	4.60	0.78	0.54	3.08
IFA Result	0.41	0.40	4.66	0.80	0.55	3.03
Stability test	0.41	0.41	4.77	0.80	0.56	3.17
A	0.346	0.168	6.267	0.951		
B	0.476	0.452	5.25	0.780	0.660	3.58
C	0.380	0.356	4.77	0.779	0.412	3.08
D						
E	0.44	0.43	6.15	1.36	0.55	3.97
F	0.43	0.42	4.38	0.72	0.52	3.20
G	0.30	0.29	5.93	0.70	0.53	8.91
H	0.3	0.3				
I	0.40	0.40	3.33	0.71	0.73	3.39
J	0.22	0.22	3.3	1.2		
K	0.36	0.29	3.90	1.15		
L	0.426	0.408	4.73	<1.00	<1.00	3.38
M	0.43	0.36	4.4	0.71	n.a.	n.a.
N	0.44	0.38	5.35	0.88		3.58
O	0.45	0.42	20.41	<0.1	<0.1	<0.1
P	0.42	0.50	5.26	0.80	0.44	3.38
Q	0.39	0.41	4.32	0.74	0.59	3.06
R	0.31	0.27	2.70	<1.0		
S	0.405	0.364	5.241	0.776	0.546	3.193
T	<1.0	<1.0	4.4	0.7	<1.0	3.5
U	0.42	0.38	4.94	0.79	0.61	3.73
V	0.39	0.38	4.81	0.92	0.56	3.07
W	0.393	0.396	4.30	0.765	0.527	2.88

All data in µg/L

Uncertainties Sample C60A

	Bromodichloro-methane ±	Dibromochloro-methane ±	Dichloro-methane ±	1,2-Dichloro-ethane ±	cis-1,2-Dichloroethene ±	trans-1,2-Dichloroethene ±
Target value	0.02	0.02	0.23	0.04	0.03	0.15
IFA Result	0.06	0.06	0.70	0.12	0.08	0.45
Stability test	0.06	0.06	0.72	0.12	0.08	0.48
A						
B	0.12	0.11	1.31	0.19	0.12	0.72
C	0.091	0.093	1.38	0.210	0.087	0.62
D						
E	0.07	0.07	1.23	0.20	0.08	0.60
F	0.02	0.12	0.25	0.04	0.13	0.12
G	0.01	0.02	0.17	0.04	0.02	0.64
H						
I	0.08	0.08	0.67	0.14	0.15	0.67
J	0.05	0.06	0.90	0.43		
K	0.05	0.04	0.59	0.17		
L	0.085	0.082	0.95			0.68
M	0.10	0.10	0.3	0.10		
N	0.10	0.10	0.73	0.16		0.90
O	0.11	0.11	5.1	0.05	0.05	0.05
P	0.11	0.13	1.37	0.21	0.11	0.88
Q	0.08	0.08	0.86	0.15	0.12	0.61
R	0.08	0.07	0.68	0.25		
S	0.085	0.106	1.310	0.241	0.137	0.798
T			0.1	0.1		0.1
U	0.04	0.04	0.5	0.08	0.06	0.37
V	0.06	0.06	0.72	0.14	0.08	0.46
W	0.00011	0.00323	0.03516	0.00542	0.00223	0.01380

All data in µg/L

Results Sample C60B

	Trichloro-ethene	Tetrachloro-ethene	1,1,1-Tri-chloroethane	Trichloro-methane	Tetrachloro-methane	1,1-Dichloro-ethene	Tribromo-methane
Target value	0.37	<0.06	0.55	1.20	1.80	1.17	2.56
IFA Result	0.36	<0.03	0.57	1.17	1.74	1.13	2.54
Stability test	0.36	<0.03	0.59	1.20	1.81	1.19	2.53
A	0.301	<0.091		1.895	1.764		3.016
B	0.373	<0.10	0.558	1.20	1.76	1.28	2.97
C	0.328	<0.020	0.528	1.16	1.80	1.19	2.23
D							
E	0.46	<0.1	0.65	1.70	2.22	1.74	3.04
F	0.35	<0.05	0.52	1.07	1.84	1.08	2.61
G	0.22	<0.1	0.38	0.87	1.67	2.26	1.34
H	0.4	<0.1	0.6	1.2	2.8		2.3
I	0.32	<ng	0.52	1.12	1.63	1.65	2.07
J	0.19	<0.10	0.26	0.71	0.85		1.65
K	0.27	<0.9	0.42	<1.3	1.41	1.30	2.50
L	0.344	<0.1	0.582	1.03	1.99	1.35	2.23
M	0.32	<0.10	0.54	1.20	2.02	n.a.	2.89
N	0.37	<0.2	0.56	1.45	2.16	1.21	2.59
O	1.62	<0.1	0.58	1.4	4.12	n.a	3.02
P	0.35	<0.1	0.57	1.23	1.78	1.32	2.98
Q	0.34	<0.04	0.54	1.22	1.78	1.09	2.32
R	0.19	<0.1	0.36	0.93	1.27		2.38
S	0.367	<0.10	0.560	1.259	1.841	1.288	2.719
T	<1.0	<0.5	0.5	1.2	1.8	1.2	2.2
U	0.32	<0.1	0.53	1.17	1.82	1.18	2.14
V	0.34	<0.1	0.48	1.15	1.40	1.14	2.43
W	0.381	<0.10	0.545	1.13	1.65	1.19	2.39

All data in µg/L

Uncertainties Sample C60B

	Trichloro-ethene ±	Tetrachloro-ethene ±	1,1,1-Tri-chloroethane ±	Trichloro-methane ±	Tetrachloro-methane ±	1,1-Dichloro-ethene ±	Tribromo-methane ±
Target value	0.02		0.03	0.06	0.09	0.06	0.13
IFA Result	0.05		0.09	0.18	0.26	0.17	0.38
Stability test	0.05		0.09	0.18	0.27	0.18	0.38
A							
B	0.04		0.11	0.24	0.44	0.25	0.74
C	0.052		0.106	0.28	0.36	0.30	0.6
D							
E	0.07		0.1	0.26	0.33	0.26	0.46
F	0.01		0.01	0.12	0.09	0.06	0.09
G	0.01		0.01	0.05	0.06	0.09	0.06
H							
I	0.06		0.10	0.22	0.33	0.33	0.41
J	0.04		0.06	0.18	0.22		0.44
K	0.04		0.06		0.21	0.20	0.38
L	0.069		0.116	0.21	0.40	0.27	0.45
M	0.10		0.10	0.20	0.30		0.30
N	0.10		0.10	0.15	0.24	0.10	0.11
O	0.41	0.05	0.15	0.35	1.03		0.76
P	0.09	0.03	0.15	0.32	0.46	0.34	0.78
Q	0.07		0.11	0.24	0.36	0.22	0.46
R	0.05	0.025	0.09	0.23	0.32		0.60
S	0.055		0.112	0.290	0.313	0.322	1.142
T			0.1	0.1	0.2	0.1	0.1
U	0.03		0.05	0.1	0.18	0.12	0.2
V	0.05		0.07	0.17	0.21	0.17	0.36
W	0.00704		0.00596	0.01847	0.01737	0.01183	0.05922

All data in µg/L

Results Sample C60B

	Bromodichloro-methane	Dibromochloro-methane	Dichloro-methane	1,2-Dichloro-ethane	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene
Target value	0.66	1.81	0.86	<0.4	1.08	0.42
IFA Result	0.66	1.85	0.84	<0.2	1.09	0.41
Stability test	0.66	1.83	0.82	<0.2	1.11	0.43
A	0.843	1.597	1.074	<0.2		
B	0.759	2.04	1.03	<0.10	1.25	0.474
C	0.600	1.66	0.821	<0.020	0.842	0.378
D						
E	0.77	2.25	1.26	<0.1	1.32	0.47
F	0.65	1.88	0.81	<0.05	0.97	0.41
G	0.46	1.27	0.83	<0.1	1.05	1.05
H	0.5	1.5				
I	0.62	1.45	<ng	<ng	1.42	0.48
J	0.33	1.04	<2.0	<2.0		
K	0.53	1.50	<1.4	1.94		
L	0.655	1.82	<1.00	<1.00	1.13	<1.00
M	0.67	1.81	0.84	<0.30	n.a.	n.a.
N	0.72	1.82	1.03	<0.4		<1.0
O	0.67	1.97	29.76	<0.1	<0.1	<0.1
P	0.68	2.35	0.98	<0.1	0.94	0.45
Q	0.64	1.81	0.85	<0.13	1.01	0.41
R	0.52	1.58	<1.0	<1.0		
S	0.716	1.929	1.044	<0.10	1.176	0.449
T	0.6	1.5	<1.5	<1.0	1.1	0.7
U	0.60	1.71	0.91	<0.2	1.05	0.51
V	0.61	1.70	0.72	<0.5	1.11	<0.5
W	0.630	1.75	0.864	<0.10	1.04	0.435

All data in µg/L

Uncertainties Sample C60B

	Bromodichloro-methane ±	Dibromochloro-methane ±	Dichloro-methane ±	1,2-Dichloro-ethane ±	cis-1,2-Dichloroethene ±	trans-1,2-Dichloroethene ±
Target value	0.03	0.09	0.04		0.05	0.02
IFA Result	0.10	0.28	0.13		0.16	0.06
Stability test	0.10	0.27	0.12		0.17	0.06
A						
B	0.19	0.51	0.26		0.23	0.09
C	0.144	0.43	0.238		0.177	0.076
D						
E	0.12	0.34	0.19		0.20	0.07
F	0.03	0.11	0.11		0.12	0.03
G	0.02	0.08	0.04		0.05	0.02
H						
I	0.12	0.29			0.28	0.10
J	0.08	0.27				
K	0.08	0.23		0.29		
L	0.131	0.36			0.23	
M	0.10	0.20	0.10			
N	0.10	0.13	0.10			
O	0.17	0.49	7.44	0.05	0.05	0.05
P	0.18	0.61	0.25	0.03	0.24	0.12
Q	0.13	0.36	0.17		0.20	0.08
R	0.13	0.40	0.25	0.25		
S	0.150	0.559	0.261		0.294	0.112
T	0.1	0.1			0.1	0.1
U	0.06	0.17	0.09		0.1	0.05
V	0.09	0.26	0.11		0.17	
W	0.01225	0.02966	0.01513		0.01251	0.00508

All data in µg/L

Sample C60A

Parameter Trichloroethene

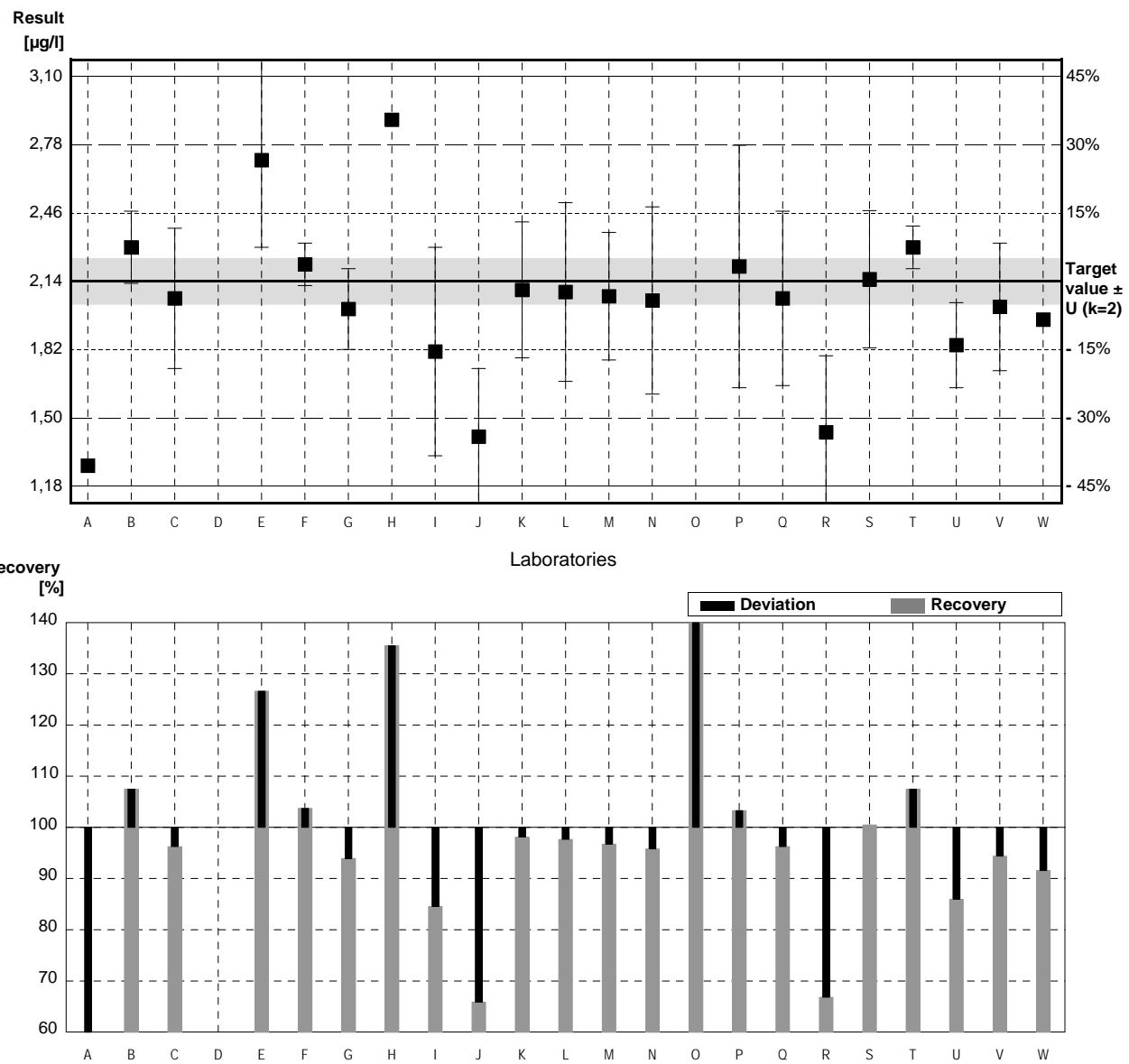
Target value $\pm U$ ($k=2$) 2,14 µg/l \pm 0,11 µg/l

IFA result $\pm U$ ($k=2$) 2,16 µg/l \pm 0,32 µg/l

Stability test $\pm U$ ($k=2$) 2,25 µg/l \pm 0,34 µg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A	1,273 *		µg/l	59%	-2,70
B	2,30	0,17	µg/l	107%	0,50
C	2,06	0,33	µg/l	96%	-0,25
D			µg/l		
E	2,71	0,41	µg/l	127%	1,78
F	2,22	0,10	µg/l	104%	0,25
G	2,01	0,19	µg/l	94%	-0,40
H	2,9 *		µg/l	136%	2,37
I	1,81	0,49	µg/l	85%	-1,03
J	1,41	0,32	µg/l	66%	-2,27
K	2,10	0,32	µg/l	98%	-0,12
L	2,09	0,42	µg/l	98%	-0,16
M	2,07	0,30	µg/l	97%	-0,22
N	2,05	0,44	µg/l	96%	-0,28
O	9,22 *	2,3	µg/l	431%	22,06
P	2,21	0,57	µg/l	103%	0,22
Q	2,06	0,41	µg/l	96%	-0,25
R	1,43	0,36	µg/l	67%	-2,21
S	2,150	0,323	µg/l	100%	0,03
T	2,3	0,1	µg/l	107%	0,50
U	1,84	0,2	µg/l	86%	-0,93
V	2,02	0,30	µg/l	94%	-0,37
W	1,96	0,00832	µg/l	92%	-0,56

	All results	Outliers excl.	Unit
Mean \pm CI(99%)	2,37 \pm 0,95	2,04 \pm 0,19	µg/l
Recov. \pm CI(99%)	110,9 \pm 44,4	95,4 \pm 9,0	%
SD between labs	1,57	0,29	µg/l
RSD between labs	66,3	14,3	%
n for calculation	22	19	



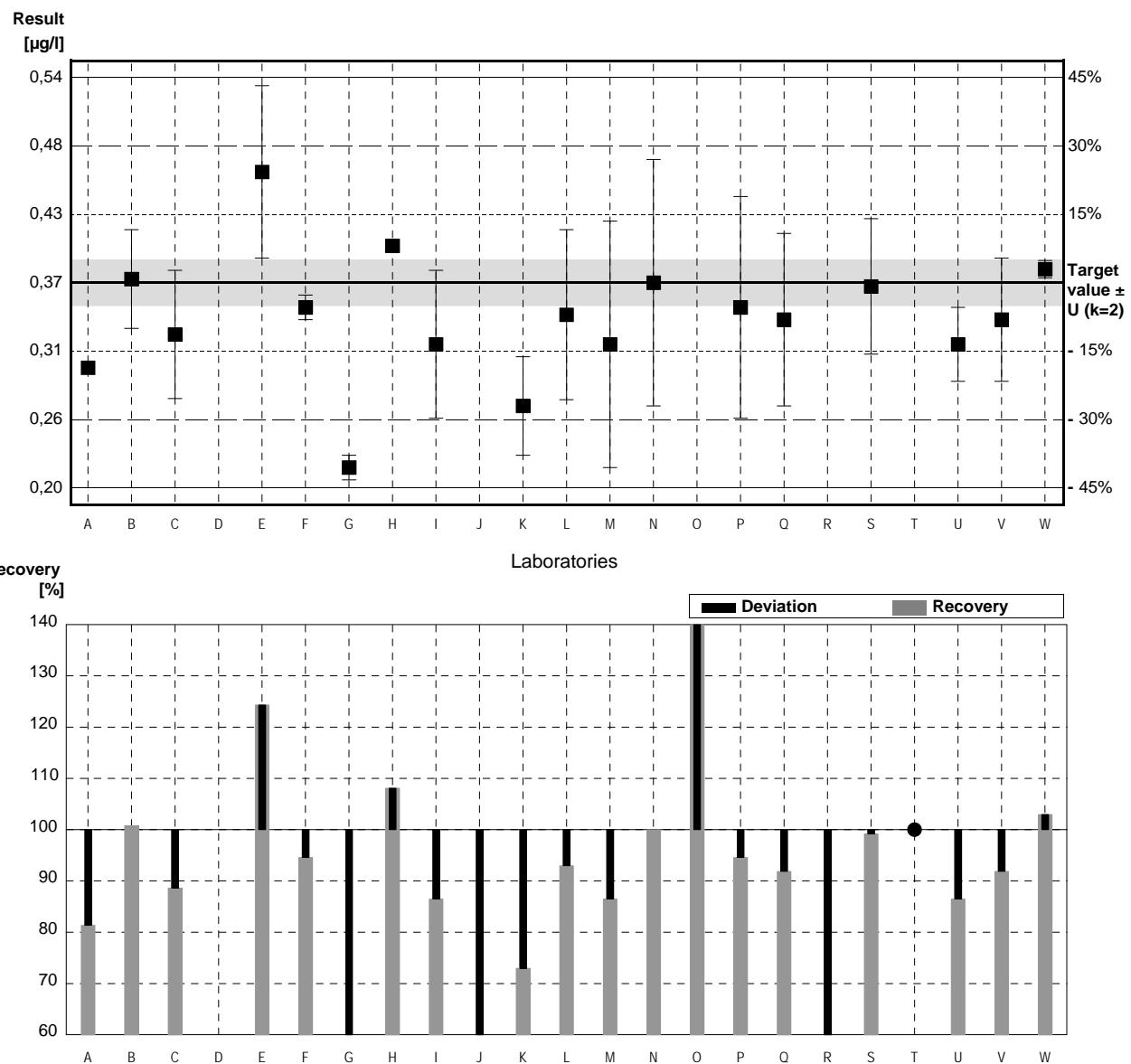
Sample C60B

Parameter Trichloroethene

Target value $\pm U$ ($k=2$) 0,37 µg/l \pm 0,02 µg/l
 IFA result $\pm U$ ($k=2$) 0,36 µg/l \pm 0,05 µg/l
 Stability test $\pm U$ ($k=2$) 0,36 µg/l \pm 0,05 µg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A	0,301		µg/l	81%	-1,24
B	0,373	0,04	µg/l	101%	0,05
C	0,328	0,052	µg/l	89%	-0,76
D			µg/l		
E	0,46	0,07	µg/l	124%	1,62
F	0,35	0,01	µg/l	95%	-0,36
G	0,22	0,01	µg/l	59%	-2,70
H	0,4		µg/l	108%	0,54
I	0,32	0,06	µg/l	86%	-0,90
J	0,19 *	0,04	µg/l	51%	-3,24
K	0,27	0,04	µg/l	73%	-1,80
L	0,344	0,069	µg/l	93%	-0,47
M	0,32	0,10	µg/l	86%	-0,90
N	0,37	0,10	µg/l	100%	0,00
O	1,62 *	0,41	µg/l	438%	22,52
P	0,35	0,09	µg/l	95%	-0,36
Q	0,34	0,07	µg/l	92%	-0,54
R	0,19 *	0,05	µg/l	51%	-3,24
S	0,367	0,055	µg/l	99%	-0,05
T	<1,0		µg/l	*	
U	0,32	0,03	µg/l	86%	-0,90
V	0,34	0,05	µg/l	92%	-0,54
W	0,381	0,00704	µg/l	103%	0,20

	All results	Outliers excl.	Unit
Mean \pm CI(99%)	0,39 \pm 0,18	0,34 \pm 0,04	µg/l
Recov. \pm CI(99%)	104,9 \pm 48,7	92,4 \pm 9,5	%
SD between labs	0,29	0,05	µg/l
RSD between labs	74,6	15,0	%
n for calculation	21	18	



Sample C60A

Parameter Tetrachloroethene

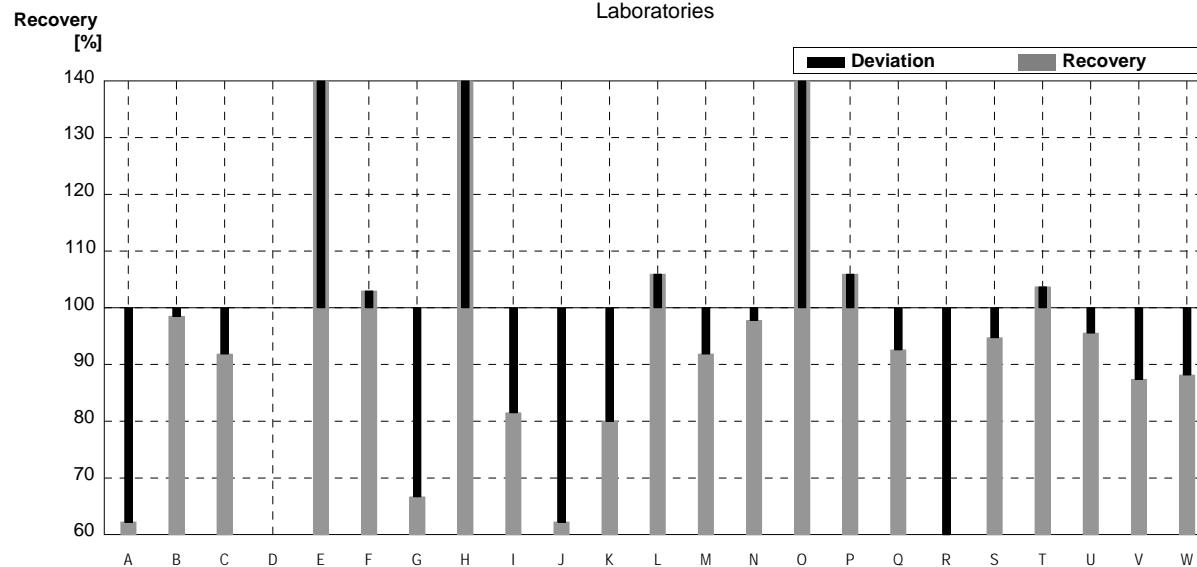
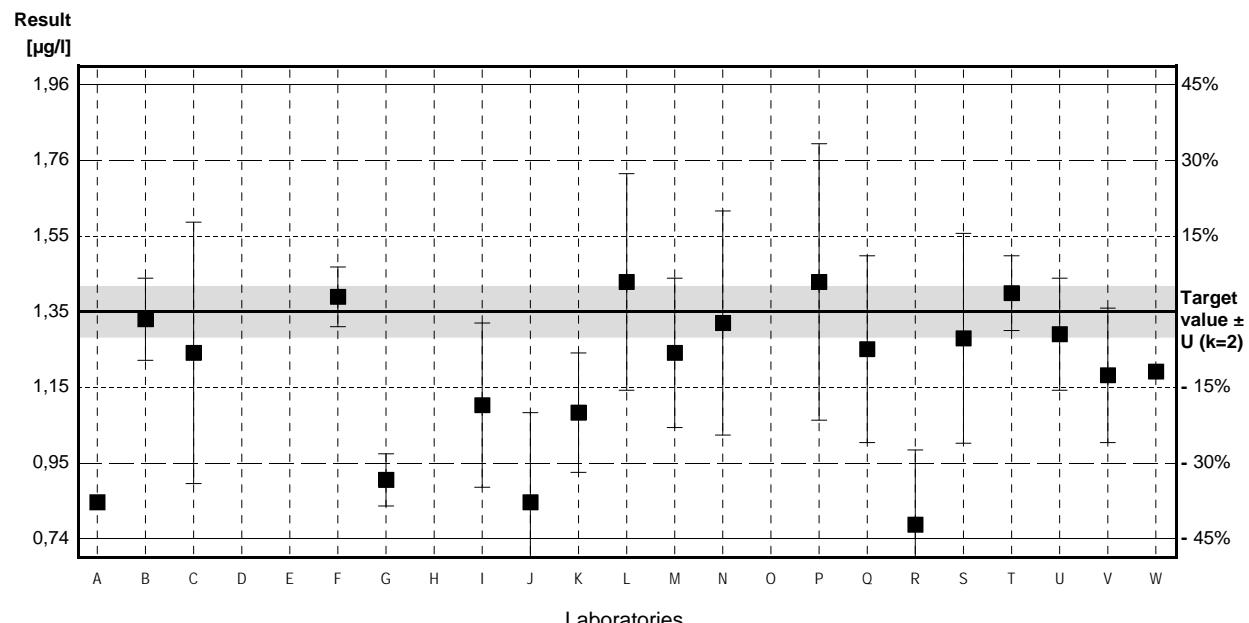
Target value $\pm U$ ($k=2$) 1,35 µg/l \pm 0,07 µg/l

IFA result $\pm U$ ($k=2$) 1,35 µg/l \pm 0,20 µg/l

Stability test $\pm U$ ($k=2$) 1,39 µg/l \pm 0,21 µg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A	0,840		µg/l	62%	-2,36
B	1,33	0,11	µg/l	99%	-0,09
C	1,24	0,35	µg/l	92%	-0,51
D			µg/l		
E	2,09 *	0,31	µg/l	155%	3,43
F	1,39	0,08	µg/l	103%	0,19
G	0,90	0,07	µg/l	67%	-2,08
H	2,5 *		µg/l	185%	5,32
I	1,10	0,22	µg/l	81%	-1,16
J	0,84	0,24	µg/l	62%	-2,36
K	1,08	0,16	µg/l	80%	-1,25
L	1,43	0,29	µg/l	106%	0,37
M	1,24	0,20	µg/l	92%	-0,51
N	1,32	0,30	µg/l	98%	-0,14
O	5,02 *	1,3	µg/l	372%	16,99
P	1,43	0,37	µg/l	106%	0,37
Q	1,25	0,25	µg/l	93%	-0,46
R	0,78	0,20	µg/l	58%	-2,64
S	1,279	0,281	µg/l	95%	-0,33
T	1,4	0,1	µg/l	104%	0,23
U	1,29	0,15	µg/l	96%	-0,28
V	1,18	0,18	µg/l	87%	-0,79
W	1,19	0,00384	µg/l	88%	-0,74

	All results	Outliers excl.	Unit
Mean \pm CI(99%)	1,46 \pm 0,53	1,18 \pm 0,14	µg/l
Recov. \pm CI(99%)	108,1 \pm 39,5	87,8 \pm 10,2	%
SD between labs	0,88	0,21	µg/l
RSD between labs	60,5	17,6	%
n for calculation	22	19	



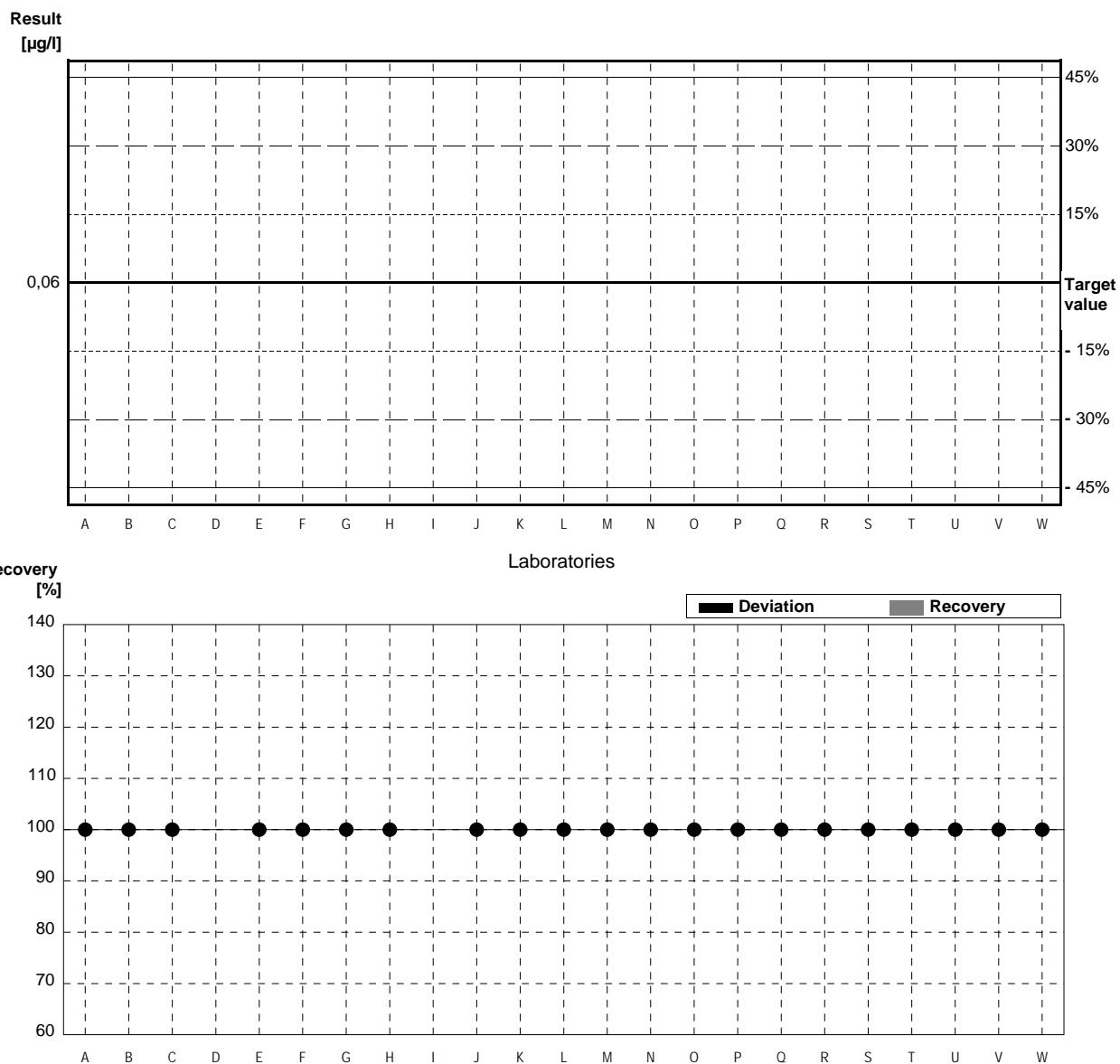
Sample C60B

Parameter Tetrachloroethene

Target value <0,06 µg/l
 IFA result <0,03 µg/l
 Stability test <0,03 µg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A	<0,091		µg/l	•	
B	<0,10		µg/l	•	
C	<0,020		µg/l	•	
D			µg/l		
E	<0,1		µg/l	•	
F	<0,05		µg/l	•	
G	<0,1		µg/l	•	
H	<0,1		µg/l	•	
I	<ng		µg/l		
J	<0,10		µg/l	•	
K	<0,9		µg/l	•	
L	<0,1		µg/l	•	
M	<0,10		µg/l	•	
N	<0,2		µg/l	•	
O	<0,1	0,05	µg/l	•	
P	<0,1	0,03	µg/l	•	
Q	<0,04		µg/l	•	
R	<0,1	0,025	µg/l	•	
S	<0,10		µg/l	•	
T	<0,5		µg/l	•	
U	<0,1		µg/l	•	
V	<0,1		µg/l	•	
W	<0,10		µg/l	•	

	All results	Outliers excl.	Unit
Mean ± CI(99%)			µg/l
Recov. ± CI(99%)			%
SD between labs			µg/l
RSD between labs			%
n for calculation			



Sample C60A

Parameter 1,1,1-Trichloroethane

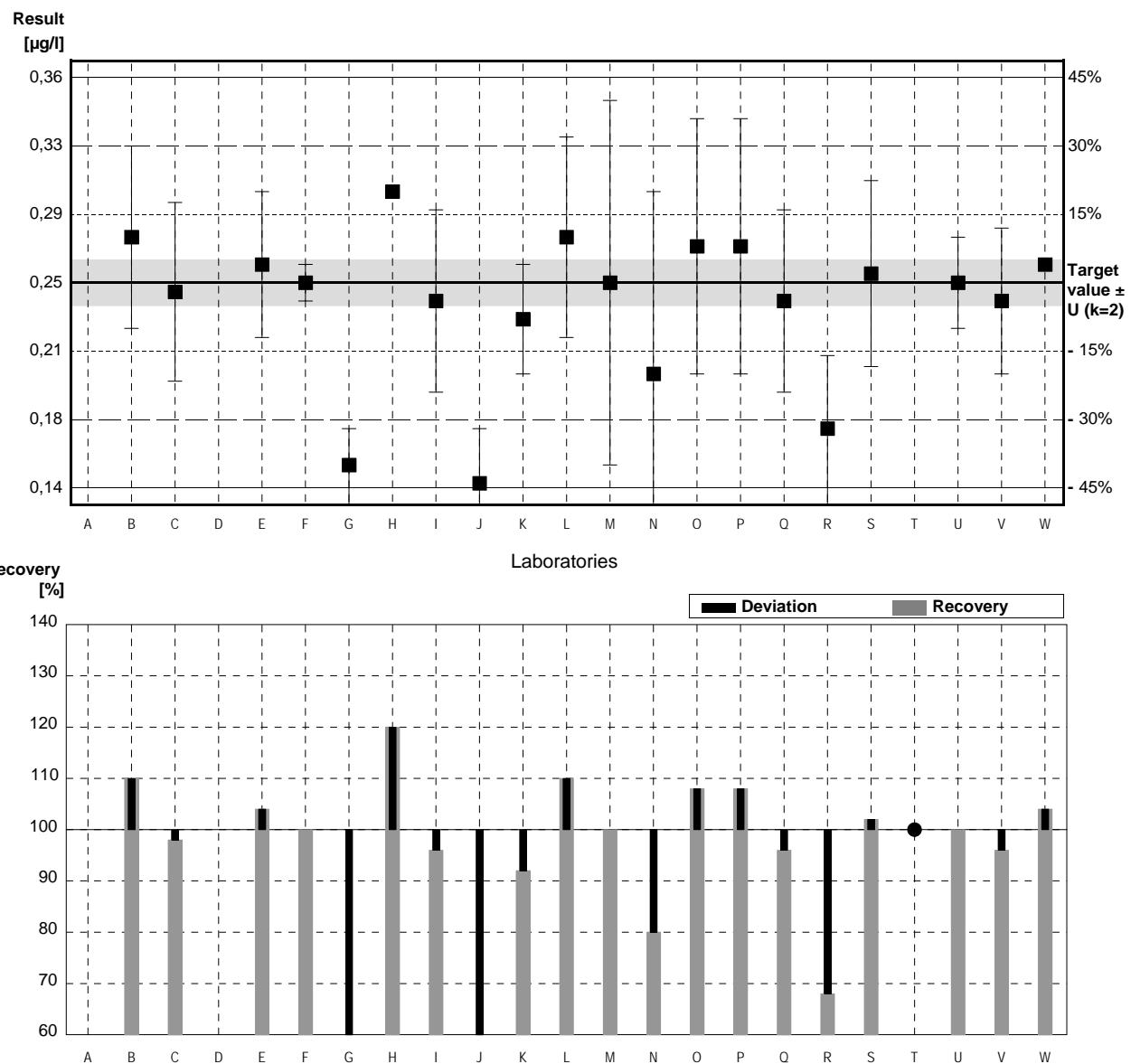
Target value $\pm U$ ($k=2$) 0,25 µg/l \pm 0,01 µg/l

IFA result $\pm U$ ($k=2$) 0,26 µg/l \pm 0,04 µg/l

Stability test $\pm U$ ($k=2$) 0,27 µg/l \pm 0,04 µg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A			µg/l		
B	0,275	0,05	µg/l	110%	0,67
C	0,245	0,049	µg/l	98%	-0,13
D			µg/l		
E	0,26	0,04	µg/l	104%	0,27
F	0,25	0,01	µg/l	100%	0,00
G	0,15 *	0,02	µg/l	60%	-2,67
H	0,3		µg/l	120%	1,33
I	0,24	0,05	µg/l	96%	-0,27
J	0,14 *	0,03	µg/l	56%	-2,93
K	0,23	0,03	µg/l	92%	-0,53
L	0,275	0,055	µg/l	110%	0,67
M	0,25	0,10	µg/l	100%	0,00
N	0,20	0,10	µg/l	80%	-1,33
O	0,27	0,07	µg/l	108%	0,53
P	0,27	0,07	µg/l	108%	0,53
Q	0,24	0,05	µg/l	96%	-0,27
R	0,17 *	0,04	µg/l	68%	-2,13
S	0,255	0,051	µg/l	102%	0,13
T	<1,0		µg/l	*	
U	0,25	0,025	µg/l	100%	0,00
V	0,24	0,04	µg/l	96%	-0,27
W	0,260	0,00182	µg/l	104%	0,27

	All results	Outliers excl.	Unit
Mean \pm CI(99%)	0,24 \pm 0,03	0,25 \pm 0,02	µg/l
Recov. \pm CI(99%)	95,4 \pm 10,8	101,4 \pm 6,2	%
SD between labs	0,04	0,02	µg/l
RSD between labs	17,7	8,7	%
n for calculation	20	17	



Sample C60B

Parameter 1,1,1-Trichloroethane

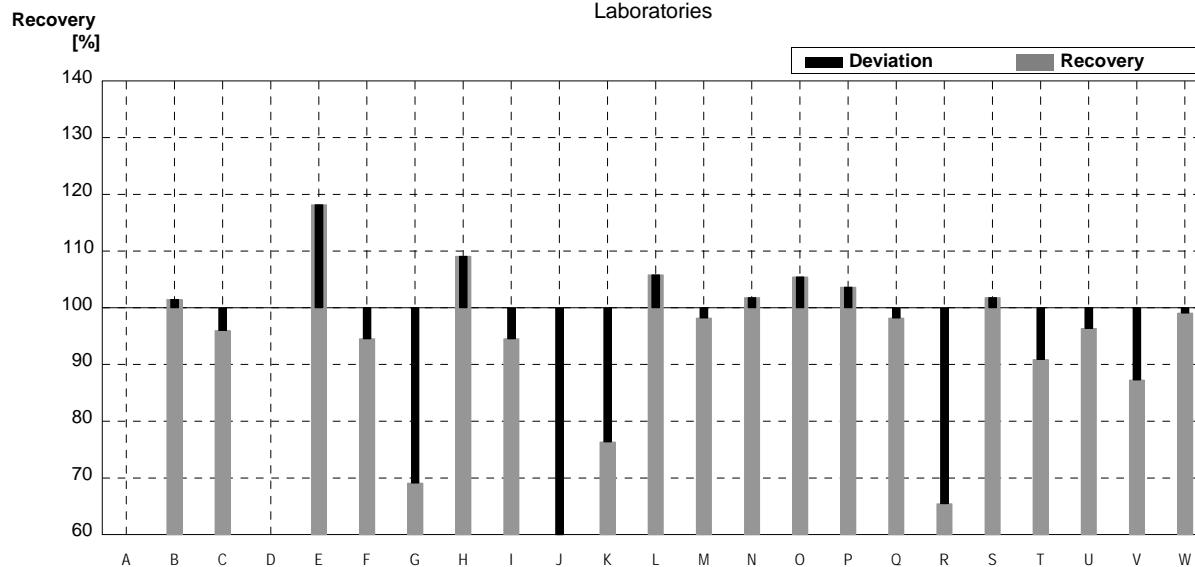
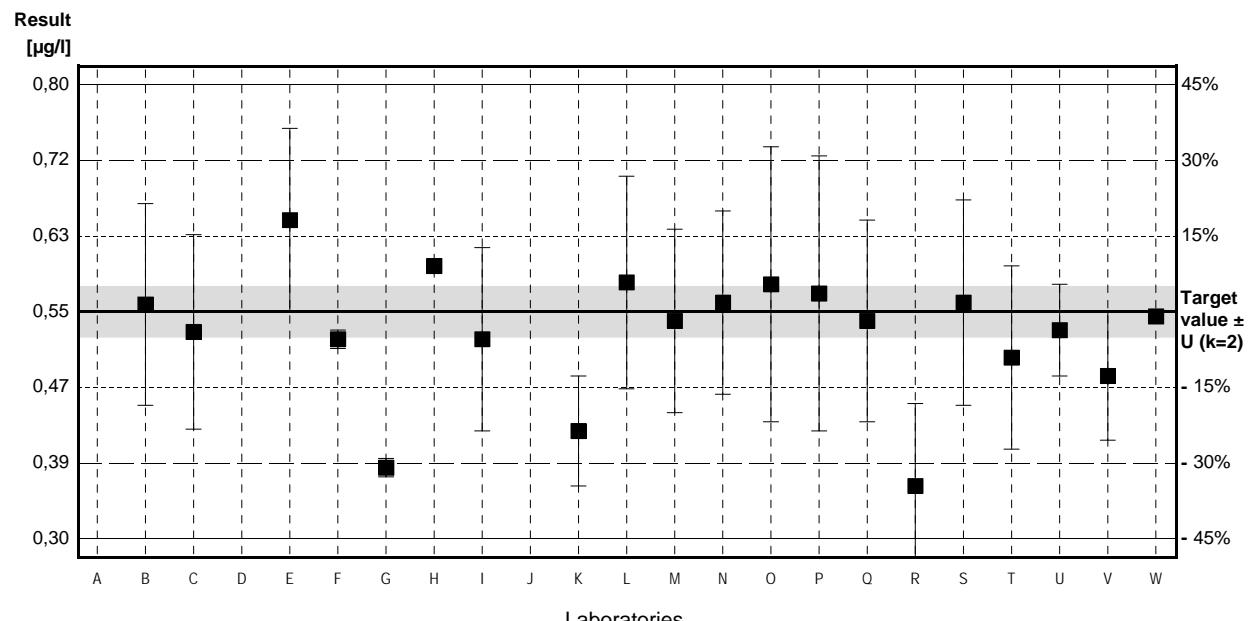
Target value $\pm U$ ($k=2$) 0,55 µg/l \pm 0,03 µg/l

IFA result $\pm U$ ($k=2$) 0,57 µg/l \pm 0,09 µg/l

Stability test $\pm U$ ($k=2$) 0,59 µg/l \pm 0,09 µg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A			µg/l		
B	0,558	0,11	µg/l	101%	0,10
C	0,528	0,106	µg/l	96%	-0,27
D			µg/l		
E	0,65	0,1	µg/l	118%	1,21
F	0,52	0,01	µg/l	95%	-0,36
G	0,38 *	0,01	µg/l	69%	-2,06
H	0,6		µg/l	109%	0,61
I	0,52	0,10	µg/l	95%	-0,36
J	0,26 *	0,06	µg/l	47%	-3,52
K	0,42	0,06	µg/l	76%	-1,58
L	0,582	0,116	µg/l	106%	0,39
M	0,54	0,10	µg/l	98%	-0,12
N	0,56	0,10	µg/l	102%	0,12
O	0,58	0,15	µg/l	105%	0,36
P	0,57	0,15	µg/l	104%	0,24
Q	0,54	0,11	µg/l	98%	-0,12
R	0,36 *	0,09	µg/l	65%	-2,30
S	0,560	0,112	µg/l	102%	0,12
T	0,5	0,1	µg/l	91%	-0,61
U	0,53	0,05	µg/l	96%	-0,24
V	0,48	0,07	µg/l	87%	-0,85
W	0,545	0,00596	µg/l	99%	-0,06

	All results	Outliers excl.	Unit
Mean \pm CI(99%)	0,51 \pm 0,06	0,54 \pm 0,03	µg/l
Recov. \pm CI(99%)	93,4 \pm 10,2	98,8 \pm 6,1	%
SD between labs	0,09	0,05	µg/l
RSD between labs	17,6	9,1	%
n for calculation	21	18	



Sample C60A

Parameter Trichloromethane

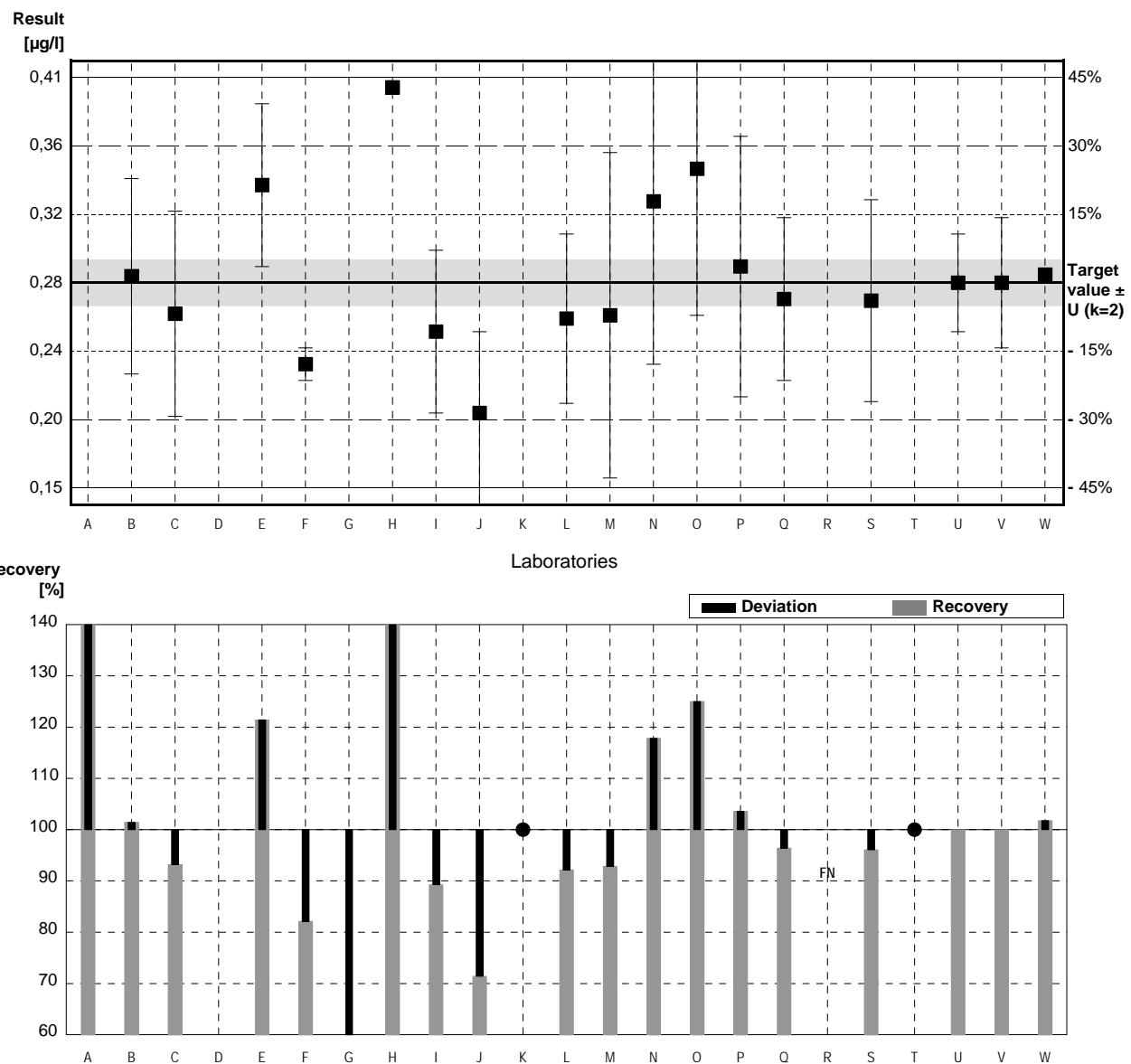
Target value \pm U (k=2) 0,28 µg/l \pm 0,01 µg/l

IFA result \pm U (k=2) 0,28 µg/l \pm 0,04 µg/l

Stability test \pm U (k=2) 0,28 µg/l \pm 0,04 µg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A	0,940 *		µg/l	336%	15,71
B	0,284	0,06	µg/l	101%	0,10
C	0,261	0,063	µg/l	93%	-0,45
D			µg/l		
E	0,34	0,05	µg/l	121%	1,43
F	0,23	0,01	µg/l	82%	-1,19
G	0,12 *	0,02	µg/l	43%	-3,81
H	0,4 *		µg/l	143%	2,86
I	0,25	0,05	µg/l	89%	-0,71
J	0,20	0,05	µg/l	71%	-1,90
K	<1,3		µg/l	*	
L	0,258	0,052	µg/l	92%	-0,52
M	0,26	0,10	µg/l	93%	-0,48
N	0,33	0,10	µg/l	118%	1,19
O	0,35	0,09	µg/l	125%	1,67
P	0,29	0,08	µg/l	104%	0,24
Q	0,27	0,05	µg/l	96%	-0,24
R	<0,2	0,05	µg/l	FN	
S	0,269	0,062	µg/l	96%	-0,26
T	<1,0		µg/l	*	
U	0,28	0,03	µg/l	100%	0,00
V	0,28	0,04	µg/l	100%	0,00
W	0,285	0,00121	µg/l	102%	0,12

	All results	Outliers excl.	Unit
Mean \pm CI(99%)	0,31 \pm 0,11	0,28 \pm 0,03	µg/l
Recov. \pm CI(99%)	110,8 \pm 38,6	99,0 \pm 10,2	%
SD between labs	0,16	0,04	µg/l
RSD between labs	52,6	13,9	%
n for calculation	19	16	



Sample C60B

Parameter Trichloromethane

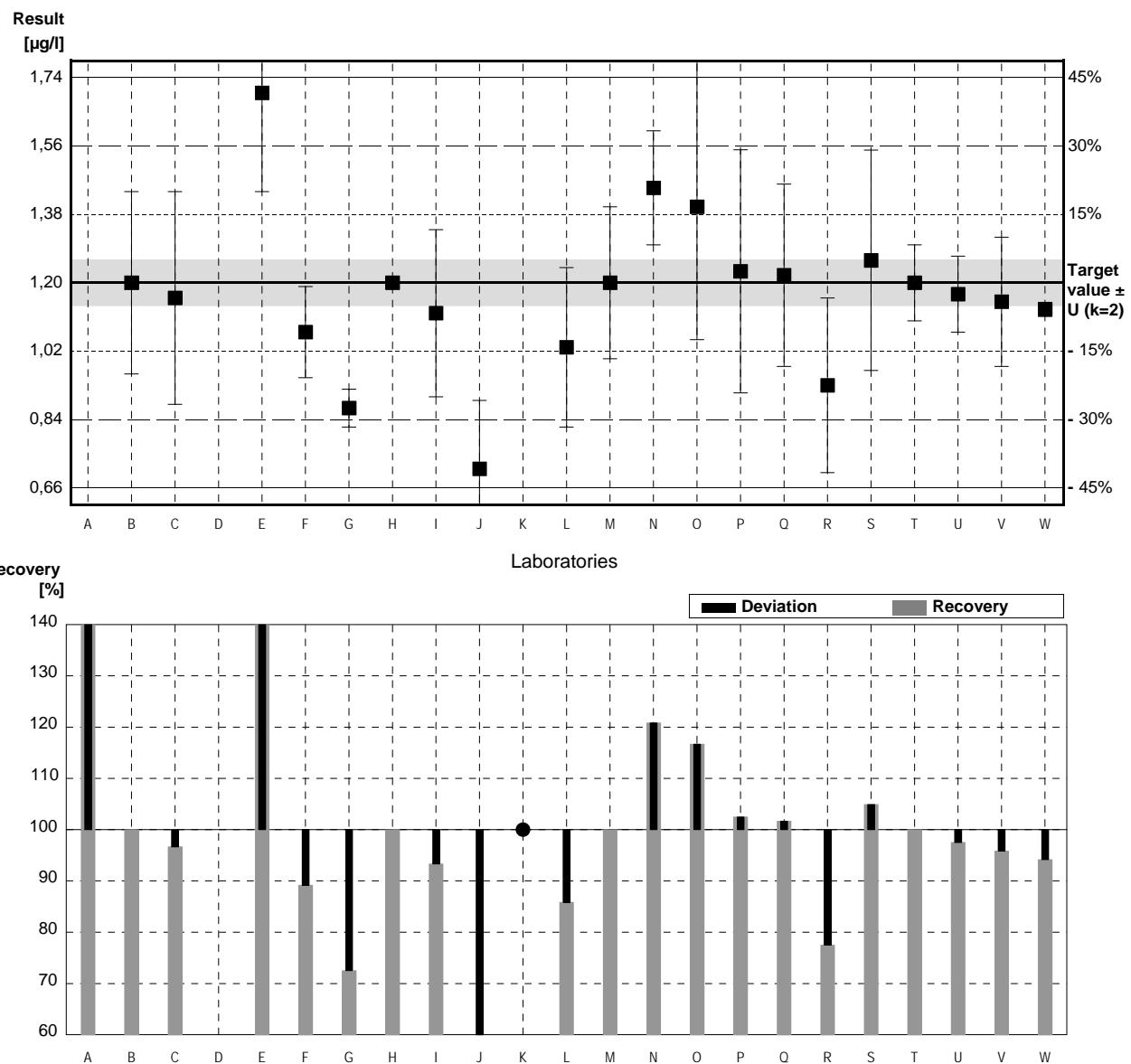
Target value \pm U (k=2) 1,20 µg/l \pm 0,06 µg/l

IFA result \pm U (k=2) 1,17 µg/l \pm 0,18 µg/l

Stability test \pm U (k=2) 1,20 µg/l \pm 0,18 µg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A	1,895 *		µg/l	158%	3,86
B	1,20	0,24	µg/l	100%	0,00
C	1,16	0,28	µg/l	97%	-0,22
D			µg/l		
E	1,70 *	0,26	µg/l	142%	2,78
F	1,07	0,12	µg/l	89%	-0,72
G	0,87 *	0,05	µg/l	73%	-1,83
H	1,2		µg/l	100%	0,00
I	1,12	0,22	µg/l	93%	-0,44
J	0,71 *	0,18	µg/l	59%	-2,72
K	<1,3		µg/l	*	
L	1,03	0,21	µg/l	86%	-0,94
M	1,20	0,20	µg/l	100%	0,00
N	1,45	0,15	µg/l	121%	1,39
O	1,4	0,35	µg/l	117%	1,11
P	1,23	0,32	µg/l	103%	0,17
Q	1,22	0,24	µg/l	102%	0,11
R	0,93	0,23	µg/l	78%	-1,50
S	1,259	0,290	µg/l	105%	0,33
T	1,2	0,1	µg/l	100%	0,00
U	1,17	0,1	µg/l	98%	-0,17
V	1,15	0,17	µg/l	96%	-0,28
W	1,13	0,01847	µg/l	94%	-0,39

	All results	Outliers excl.	Unit
Mean \pm CI(99%)	1,20 \pm 0,16	1,18 \pm 0,09	µg/l
Recov. \pm CI(99%)	100,4 \pm 13,3	98,6 \pm 7,2	%
SD between labs	0,26	0,12	µg/l
RSD between labs	21,4	10,3	%
n for calculation	21	17	



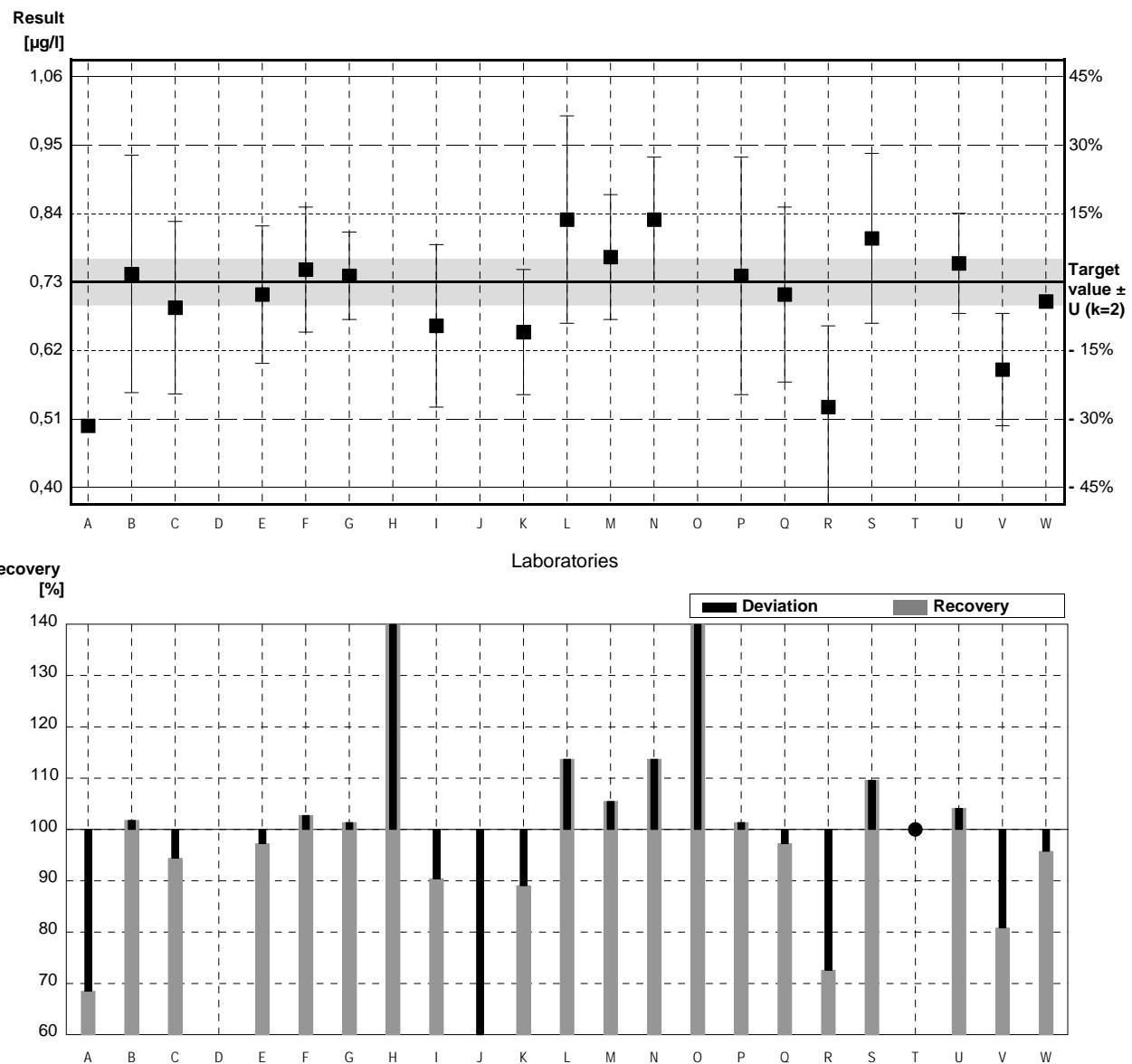
Sample C60A

Parameter Tetrachloromethane

Target value $\pm U$ ($k=2$) 0,73 µg/l \pm 0,04 µg/l
 IFA result $\pm U$ ($k=2$) 0,73 µg/l \pm 0,11 µg/l
 Stability test $\pm U$ ($k=2$) 0,76 µg/l \pm 0,11 µg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A	0,500		µg/l	68%	-1,75
B	0,743	0,19	µg/l	102%	0,10
C	0,689	0,138	µg/l	94%	-0,31
D			µg/l		
E	0,71	0,11	µg/l	97%	-0,15
F	0,75	0,10	µg/l	103%	0,15
G	0,74	0,07	µg/l	101%	0,08
H	1,3 *		µg/l	178%	4,34
I	0,66	0,13	µg/l	90%	-0,53
J	0,38 *	0,10	µg/l	52%	-2,66
K	0,65	0,10	µg/l	89%	-0,61
L	0,830	0,166	µg/l	114%	0,76
M	0,77	0,10	µg/l	105%	0,30
N	0,83	0,10	µg/l	114%	0,76
O	2,93 *	0,73	µg/l	401%	16,74
P	0,74	0,19	µg/l	101%	0,08
Q	0,71	0,14	µg/l	97%	-0,15
R	0,53	0,13	µg/l	73%	-1,52
S	0,800	0,136	µg/l	110%	0,53
T	<1,0		µg/l	*	
U	0,76	0,08	µg/l	104%	0,23
V	0,59	0,09	µg/l	81%	-1,07
W	0,699	0,00507	µg/l	96%	-0,24

	All results	Outliers excl.	Unit
Mean \pm CI(99%)	0,82 \pm 0,32	0,71 \pm 0,06	µg/l
Recov. \pm CI(99%)	112,9 \pm 43,7	96,7 \pm 8,6	%
SD between labs	0,51	0,09	µg/l
RSD between labs	62,2	13,1	%
n for calculation	21	18	



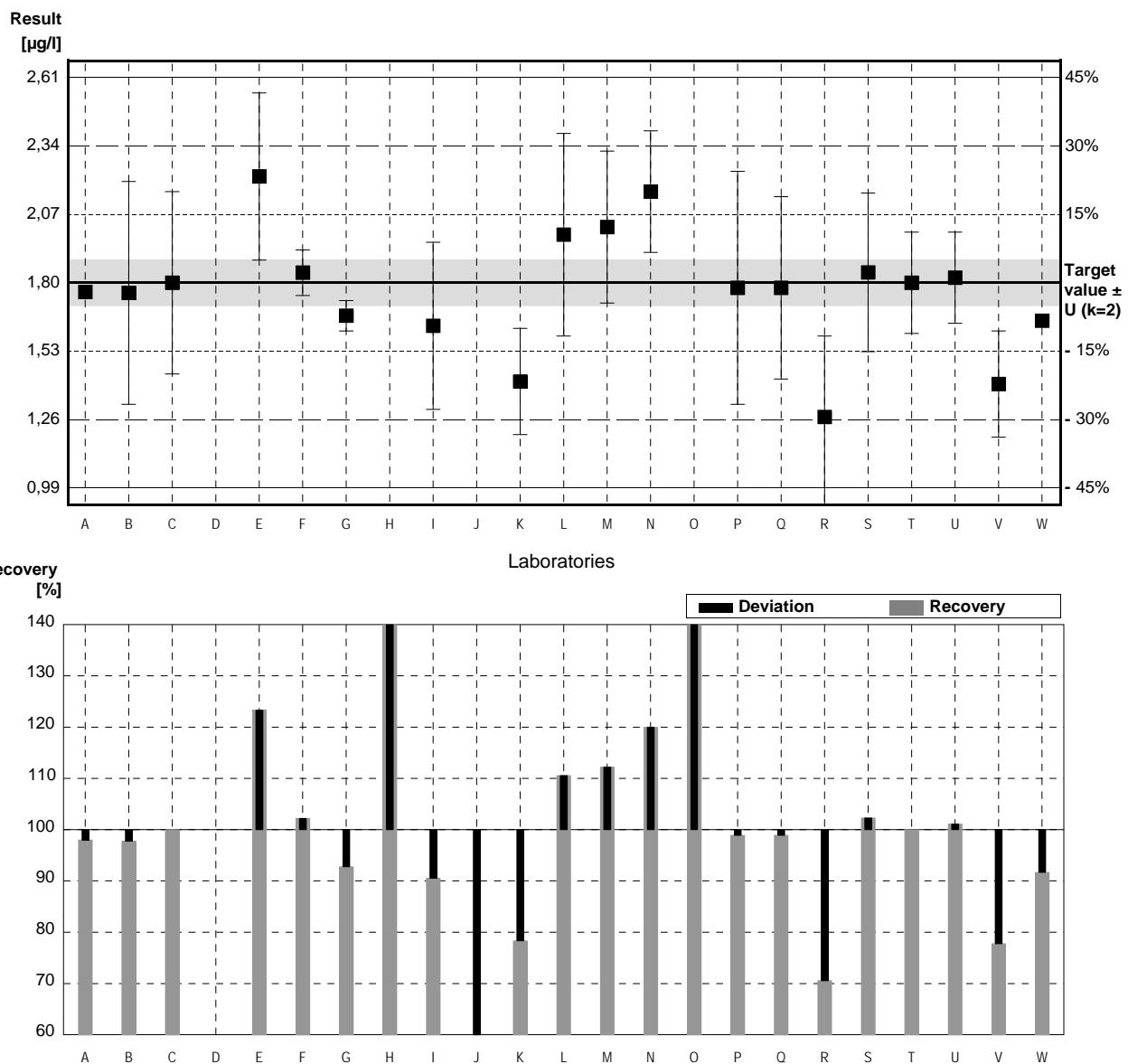
Sample C60B

Parameter Tetrachloromethane

Target value \pm U (k=2) 1,80 µg/l \pm 0,09 µg/l
 IFA result \pm U (k=2) 1,74 µg/l \pm 0,26 µg/l
 Stability test \pm U (k=2) 1,81 µg/l \pm 0,27 µg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A	1,764		µg/l	98%	-0,11
B	1,76	0,44	µg/l	98%	-0,12
C	1,80	0,36	µg/l	100%	0,00
D			µg/l		
E	2,22	0,33	µg/l	123%	1,30
F	1,84	0,09	µg/l	102%	0,12
G	1,67	0,06	µg/l	93%	-0,40
H	2,8 *		µg/l	156%	3,09
I	1,63	0,33	µg/l	91%	-0,52
J	0,85 *	0,22	µg/l	47%	-2,93
K	1,41	0,21	µg/l	78%	-1,20
L	1,99	0,40	µg/l	111%	0,59
M	2,02	0,30	µg/l	112%	0,68
N	2,16	0,24	µg/l	120%	1,11
O	4,12 *	1,03	µg/l	229%	7,16
P	1,78	0,46	µg/l	99%	-0,06
Q	1,78	0,36	µg/l	99%	-0,06
R	1,27	0,32	µg/l	71%	-1,64
S	1,841	0,313	µg/l	102%	0,13
T	1,8	0,2	µg/l	100%	0,00
U	1,82	0,18	µg/l	101%	0,06
V	1,40	0,21	µg/l	78%	-1,23
W	1,65	0,01737	µg/l	92%	-0,46

	All results	Outliers excl.	Unit
Mean \pm CI(99%)	1,88 \pm 0,38	1,77 \pm 0,16	µg/l
Recov. \pm CI(99%)	104,5 \pm 20,9	98,3 \pm 8,8	%
SD between labs	0,62	0,24	µg/l
RSD between labs	33,2	13,6	%
n for calculation	22	19	



Sample C60A

Parameter 1,1-Dichloroethene

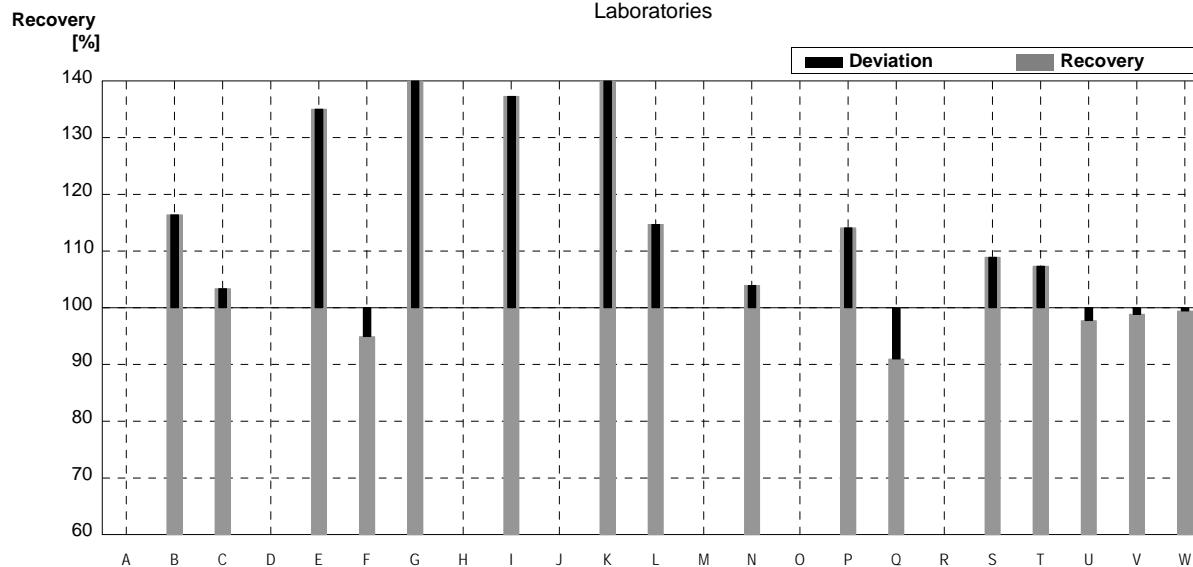
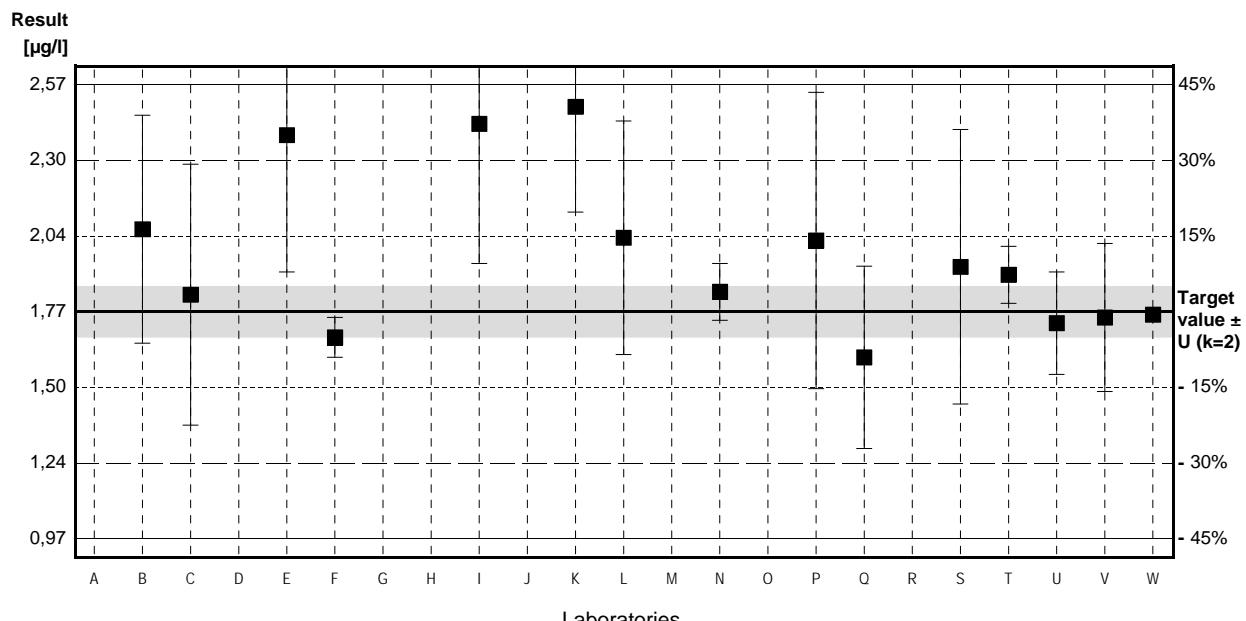
Target value \pm U (k=2) 1,77 µg/l \pm 0,09 µg/l

IFA result \pm U (k=2) 1,77 µg/l \pm 0,27 µg/l

Stability test \pm U (k=2) 1,86 µg/l \pm 0,28 µg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A			µg/l		
B	2,06	0,40	µg/l	116%	0,86
C	1,830	0,458	µg/l	103%	0,18
D			µg/l		
E	2,39	0,48	µg/l	135%	1,84
F	1,68	0,07	µg/l	95%	-0,27
G	3,89 *	0,32	µg/l	220%	6,30
H			µg/l		
I	2,43	0,49	µg/l	137%	1,96
J			µg/l		
K	2,49	0,37	µg/l	141%	2,14
L	2,03	0,41	µg/l	115%	0,77
M	n.a.		µg/l		
N	1,84	0,10	µg/l	104%	0,21
O	n.a		µg/l		
P	2,02	0,52	µg/l	114%	0,74
Q	1,61	0,32	µg/l	91%	-0,48
R			µg/l		
S	1,928	0,482	µg/l	109%	0,47
T	1,9	0,1	µg/l	107%	0,39
U	1,73	0,18	µg/l	98%	-0,12
V	1,75	0,26	µg/l	99%	-0,06
W	1,76	0,01375	µg/l	99%	-0,03

	All results	Outliers excl.	Unit
Mean \pm CI(99%)	2,08 \pm 0,41	1,96 \pm 0,21	µg/l
Recov. \pm CI(99%)	117,7 \pm 23,0	110,9 \pm 12,1	%
SD between labs	0,55	0,28	µg/l
RSD between labs	26,5	14,1	%
n for calculation	16	15	



Sample C60B

Parameter 1,1-Dichloroethene

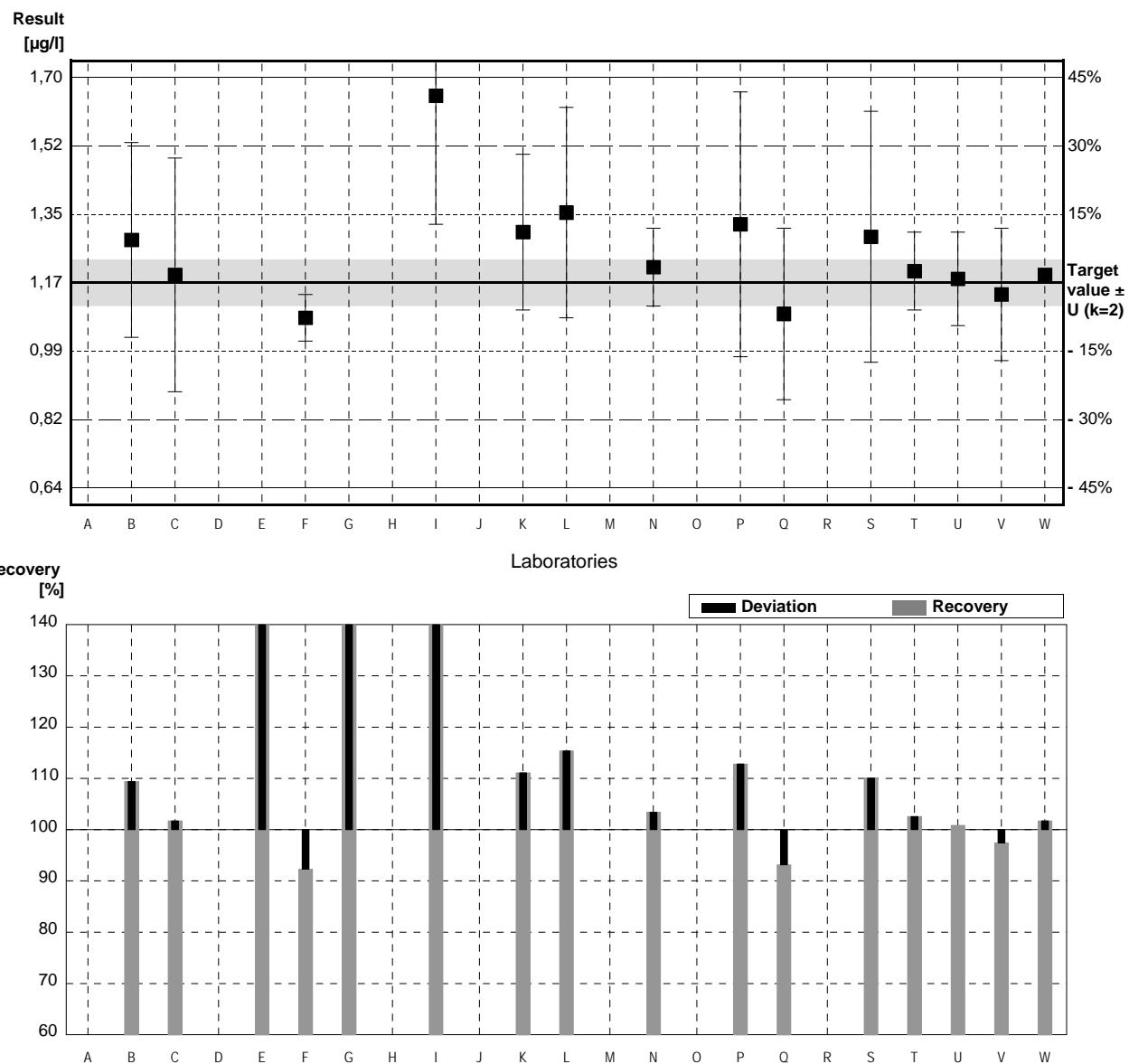
Target value \pm U (k=2) 1,17 µg/l \pm 0,06 µg/l

IFA result \pm U (k=2) 1,13 µg/l \pm 0,17 µg/l

Stability test \pm U (k=2) 1,19 µg/l \pm 0,18 µg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A			µg/l		
B	1,28	0,25	µg/l	109%	0,49
C	1,19	0,30	µg/l	102%	0,09
D			µg/l		
E	1,74 *	0,26	µg/l	149%	2,56
F	1,08	0,06	µg/l	92%	-0,40
G	2,26 *	0,09	µg/l	193%	4,90
H			µg/l		
I	1,65 *	0,33	µg/l	141%	2,16
J			µg/l		
K	1,30	0,20	µg/l	111%	0,58
L	1,35	0,27	µg/l	115%	0,81
M	n.a.		µg/l		
N	1,21	0,10	µg/l	103%	0,18
O	n.a		µg/l		
P	1,32	0,34	µg/l	113%	0,67
Q	1,09	0,22	µg/l	93%	-0,36
R			µg/l		
S	1,288	0,322	µg/l	110%	0,53
T	1,2	0,1	µg/l	103%	0,13
U	1,18	0,12	µg/l	101%	0,04
V	1,14	0,17	µg/l	97%	-0,13
W	1,19	0,01183	µg/l	102%	0,09

	All results	Outliers excl.	Unit
Mean \pm CI(99%)	1,34 \pm 0,22	1,22 \pm 0,07	µg/l
Recov. \pm CI(99%)	114,7 \pm 19,2	104,0 \pm 6,2	%
SD between labs	0,30	0,09	µg/l
RSD between labs	22,7	7,0	%
n for calculation	16	13	



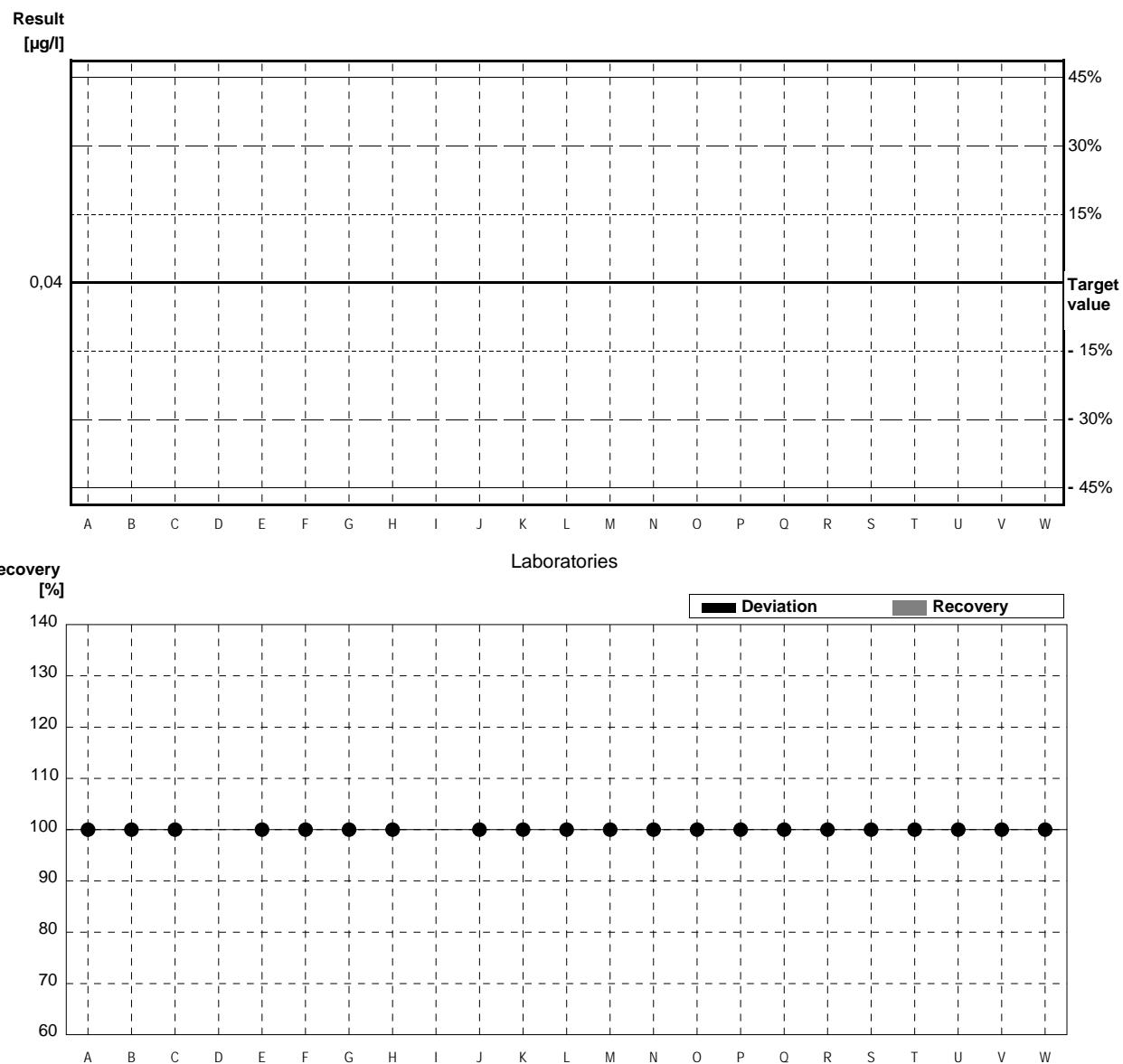
Sample C60A

Parameter Tribromomethane

Target value <0,04 µg/l
 IFA result <0,02 µg/l
 Stability test <0,02 µg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A	<0,131		µg/l	•	
B	<0,10		µg/l	•	
C	<0,020		µg/l	•	
D			µg/l		
E	<0,1		µg/l	•	
F	<0,05		µg/l	•	
G	<0,1		µg/l	•	
H	<0,2		µg/l	•	
I	<ng		µg/l		
J	<0,10		µg/l	•	
K	<1,8		µg/l	•	
L	<0,1		µg/l	•	
M	<0,10		µg/l	•	
N	<0,2		µg/l	•	
O	<0,1	0,05	µg/l	•	
P	<0,1	0,03	µg/l	•	
Q	<0,03		µg/l	•	
R	<0,2	0,05	µg/l	•	
S	<0,14		µg/l	•	
T	<1,0		µg/l	•	
U	<0,1		µg/l	•	
V	<0,1		µg/l	•	
W	<0,10		µg/l	•	

	All results	Outliers excl.	Unit
Mean ± CI(99%)			µg/l
Recov. ± CI(99%)			%
SD between labs			µg/l
RSD between labs			%
n for calculation			



Sample C60B

Parameter Tribromomethane

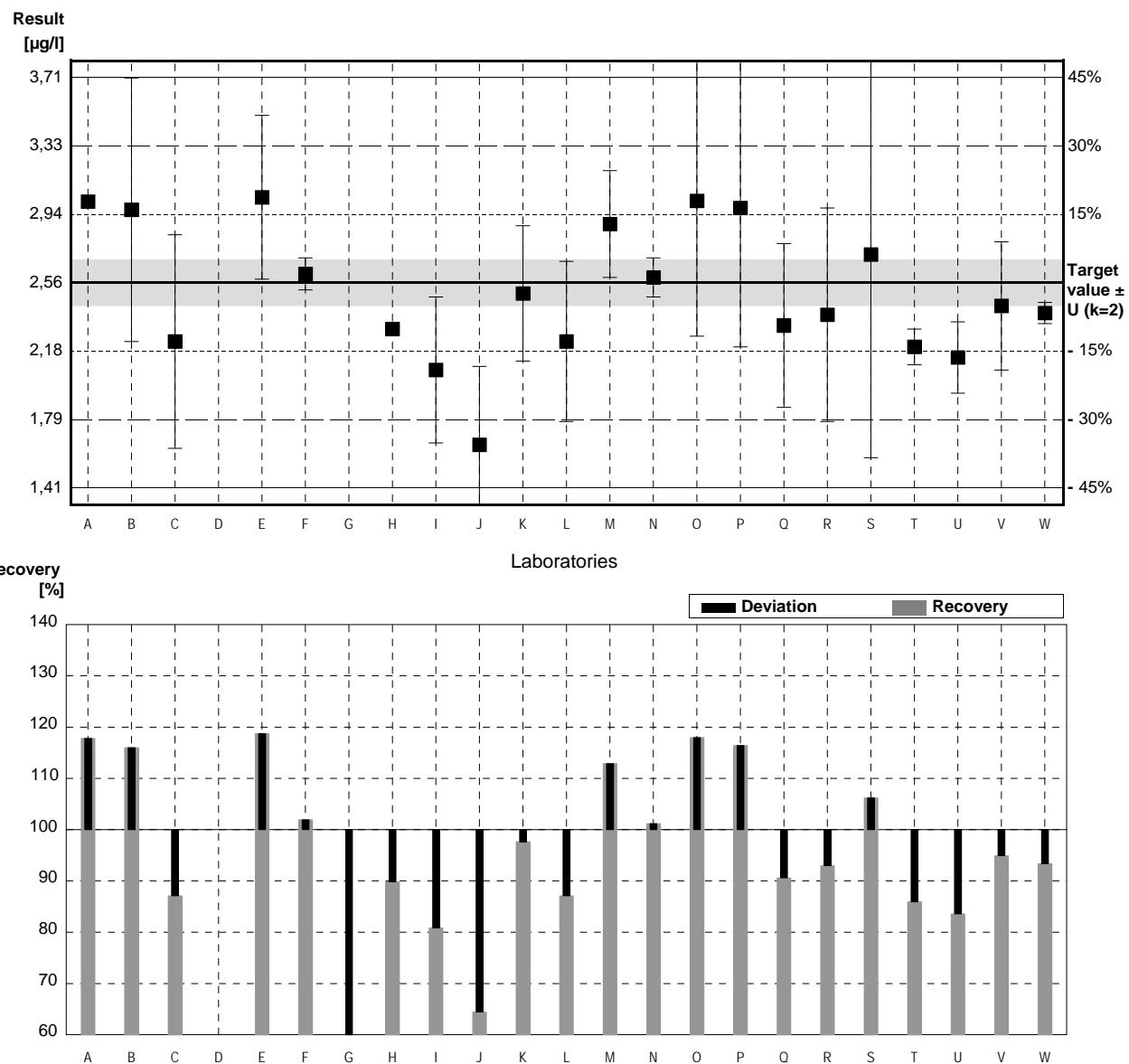
Target value \pm U (k=2) 2,56 µg/l \pm 0,13 µg/l

IFA result \pm U (k=2) 2,54 µg/l \pm 0,38 µg/l

Stability test \pm U (k=2) 2,53 µg/l \pm 0,38 µg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A	3,016		µg/l	118%	1,11
B	2,97	0,74	µg/l	116%	1,00
C	2,23	0,6	µg/l	87%	-0,81
D			µg/l		
E	3,04	0,46	µg/l	119%	1,17
F	2,61	0,09	µg/l	102%	0,12
G	1,34	0,06	µg/l	52%	-2,98
H	2,3		µg/l	90%	-0,63
I	2,07	0,41	µg/l	81%	-1,20
J	1,65	0,44	µg/l	64%	-2,22
K	2,50	0,38	µg/l	98%	-0,15
L	2,23	0,45	µg/l	87%	-0,81
M	2,89	0,30	µg/l	113%	0,81
N	2,59	0,11	µg/l	101%	0,07
O	3,02	0,76	µg/l	118%	1,12
P	2,98	0,78	µg/l	116%	1,03
Q	2,32	0,46	µg/l	91%	-0,59
R	2,38	0,60	µg/l	93%	-0,44
S	2,719	1,142	µg/l	106%	0,39
T	2,2	0,1	µg/l	86%	-0,88
U	2,14	0,2	µg/l	84%	-1,03
V	2,43	0,36	µg/l	95%	-0,32
W	2,39	0,05922	µg/l	93%	-0,42

	All results	Outliers excl.	Unit
Mean \pm CI(99%)	2,46 \pm 0,27	2,46 \pm 0,27	µg/l
Recov. \pm CI(99%)	95,9 \pm 10,5	95,9 \pm 10,5	%
SD between labs	0,45	0,45	µg/l
RSD between labs	18,2	18,2	%
n for calculation	22	22	



Sample C60A

Parameter Bromodichloromethane

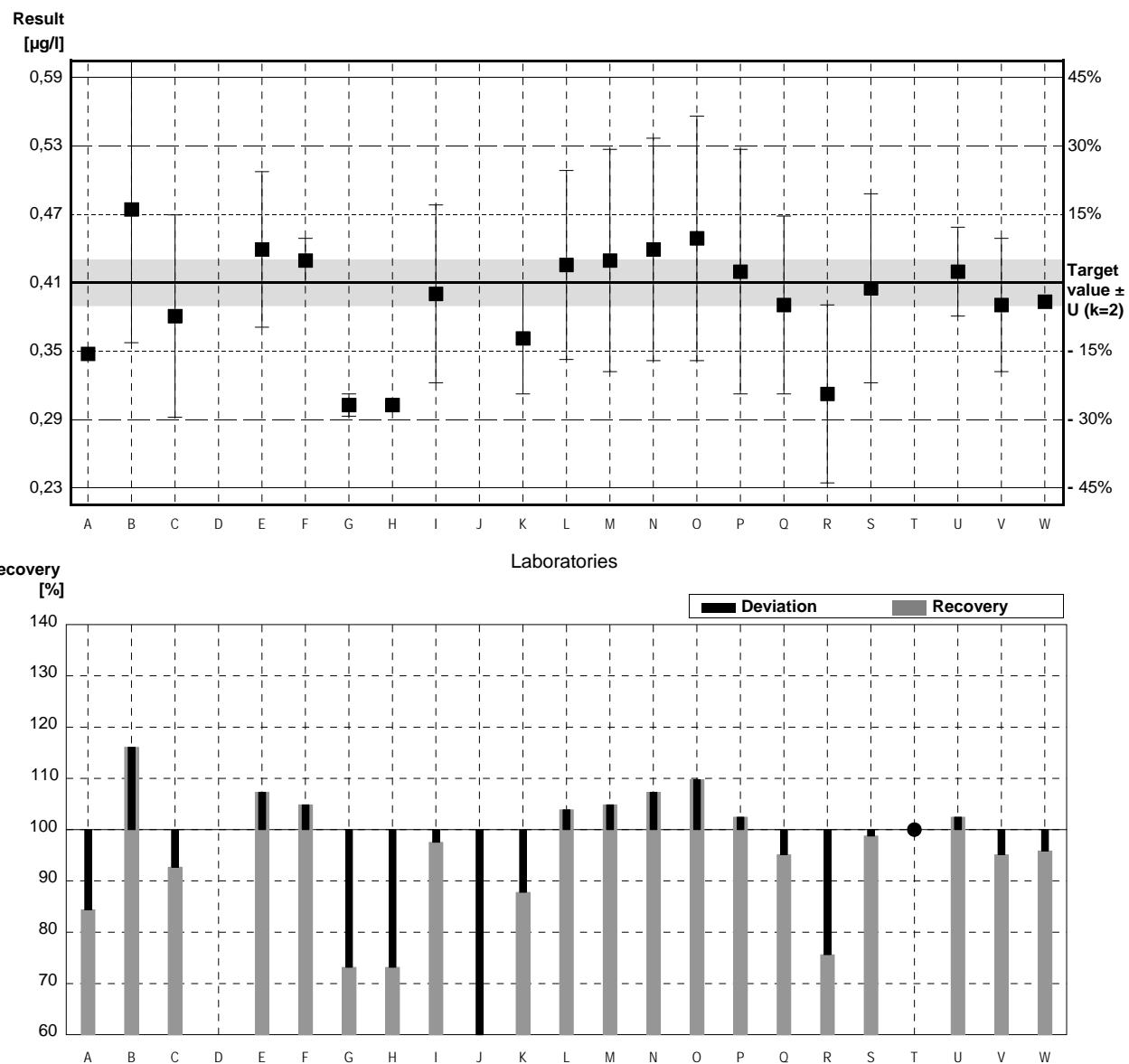
Target value \pm U (k=2) 0,41 µg/l \pm 0,02 µg/l

IFA result \pm U (k=2) 0,41 µg/l \pm 0,06 µg/l

Stability test \pm U (k=2) 0,41 µg/l \pm 0,06 µg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A	0,346		µg/l	84%	-1,11
B	0,476	0,12	µg/l	116%	1,15
C	0,380	0,091	µg/l	93%	-0,52
D			µg/l		
E	0,44	0,07	µg/l	107%	0,52
F	0,43	0,02	µg/l	105%	0,35
G	0,30	0,01	µg/l	73%	-1,92
H	0,3		µg/l	73%	-1,92
I	0,40	0,08	µg/l	98%	-0,17
J	0,22 *	0,05	µg/l	54%	-3,31
K	0,36	0,05	µg/l	88%	-0,87
L	0,426	0,085	µg/l	104%	0,28
M	0,43	0,10	µg/l	105%	0,35
N	0,44	0,10	µg/l	107%	0,52
O	0,45	0,11	µg/l	110%	0,70
P	0,42	0,11	µg/l	102%	0,17
Q	0,39	0,08	µg/l	95%	-0,35
R	0,31	0,08	µg/l	76%	-1,74
S	0,405	0,085	µg/l	99%	-0,09
T	<1,0		µg/l	*	
U	0,42	0,04	µg/l	102%	0,17
V	0,39	0,06	µg/l	95%	-0,35
W	0,393	0,00011	µg/l	96%	-0,30

	All results	Outliers excl.	Unit
Mean \pm CI(99%)	0,39 \pm 0,04	0,40 \pm 0,03	µg/l
Recov. \pm CI(99%)	94,4 \pm 9,4	96,4 \pm 7,8	%
SD between labs	0,06	0,05	µg/l
RSD between labs	16,0	12,7	%
n for calculation	21	20	



Sample C60B

Parameter Bromodichloromethane

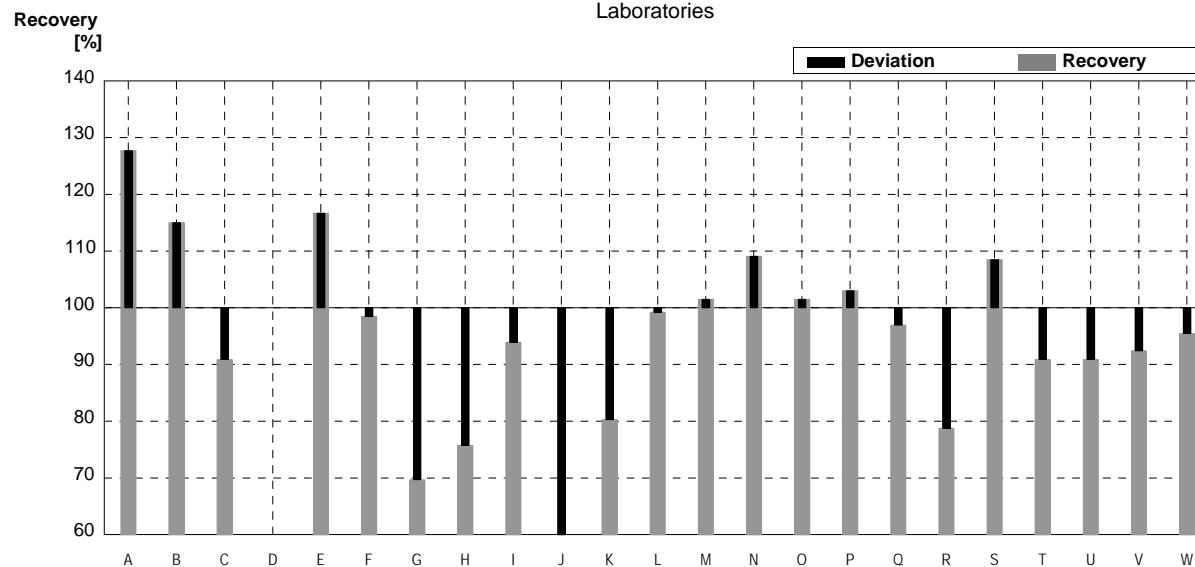
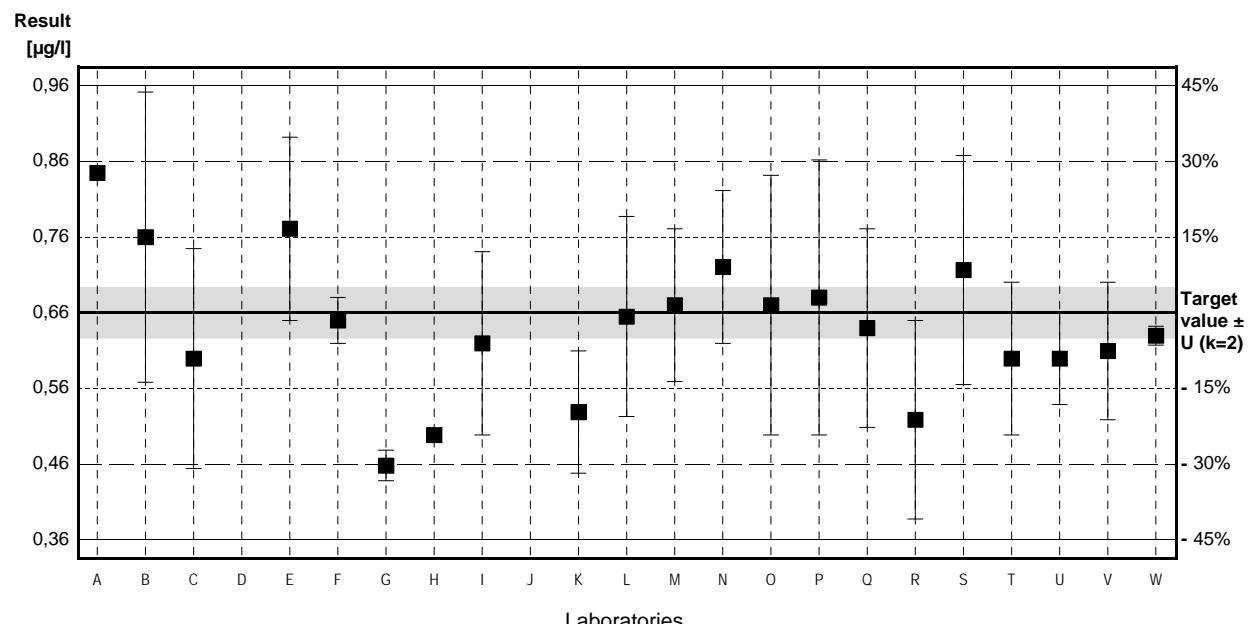
Target value $\pm U$ ($k=2$) 0,66 µg/l \pm 0,03 µg/l

IFA result $\pm U$ ($k=2$) 0,66 µg/l \pm 0,10 µg/l

Stability test $\pm U$ ($k=2$) 0,66 µg/l \pm 0,10 µg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A	0,843 *		µg/l	128%	1,98
B	0,759	0,19	µg/l	115%	1,07
C	0,600	0,144	µg/l	91%	-0,65
D			µg/l		
E	0,77	0,12	µg/l	117%	1,19
F	0,65	0,03	µg/l	98%	-0,11
G	0,46	0,02	µg/l	70%	-2,16
H	0,5		µg/l	76%	-1,73
I	0,62	0,12	µg/l	94%	-0,43
J	0,33 *	0,08	µg/l	50%	-3,57
K	0,53	0,08	µg/l	80%	-1,41
L	0,655	0,131	µg/l	99%	-0,05
M	0,67	0,10	µg/l	102%	0,11
N	0,72	0,10	µg/l	109%	0,65
O	0,67	0,17	µg/l	102%	0,11
P	0,68	0,18	µg/l	103%	0,22
Q	0,64	0,13	µg/l	97%	-0,22
R	0,52	0,13	µg/l	79%	-1,52
S	0,716	0,150	µg/l	108%	0,61
T	0,6	0,1	µg/l	91%	-0,65
U	0,60	0,06	µg/l	91%	-0,65
V	0,61	0,09	µg/l	92%	-0,54
W	0,630	0,01225	µg/l	95%	-0,32

	All results	Outliers excl.	Unit
Mean \pm CI(99%)	0,63 \pm 0,07	0,63 \pm 0,05	µg/l
Recov. \pm CI(99%)	94,9 \pm 10,3	95,5 \pm 8,0	%
SD between labs	0,11	0,08	µg/l
RSD between labs	17,9	13,1	%
n for calculation	22	20	



Sample C60A

Parameter Dibromochloromethane

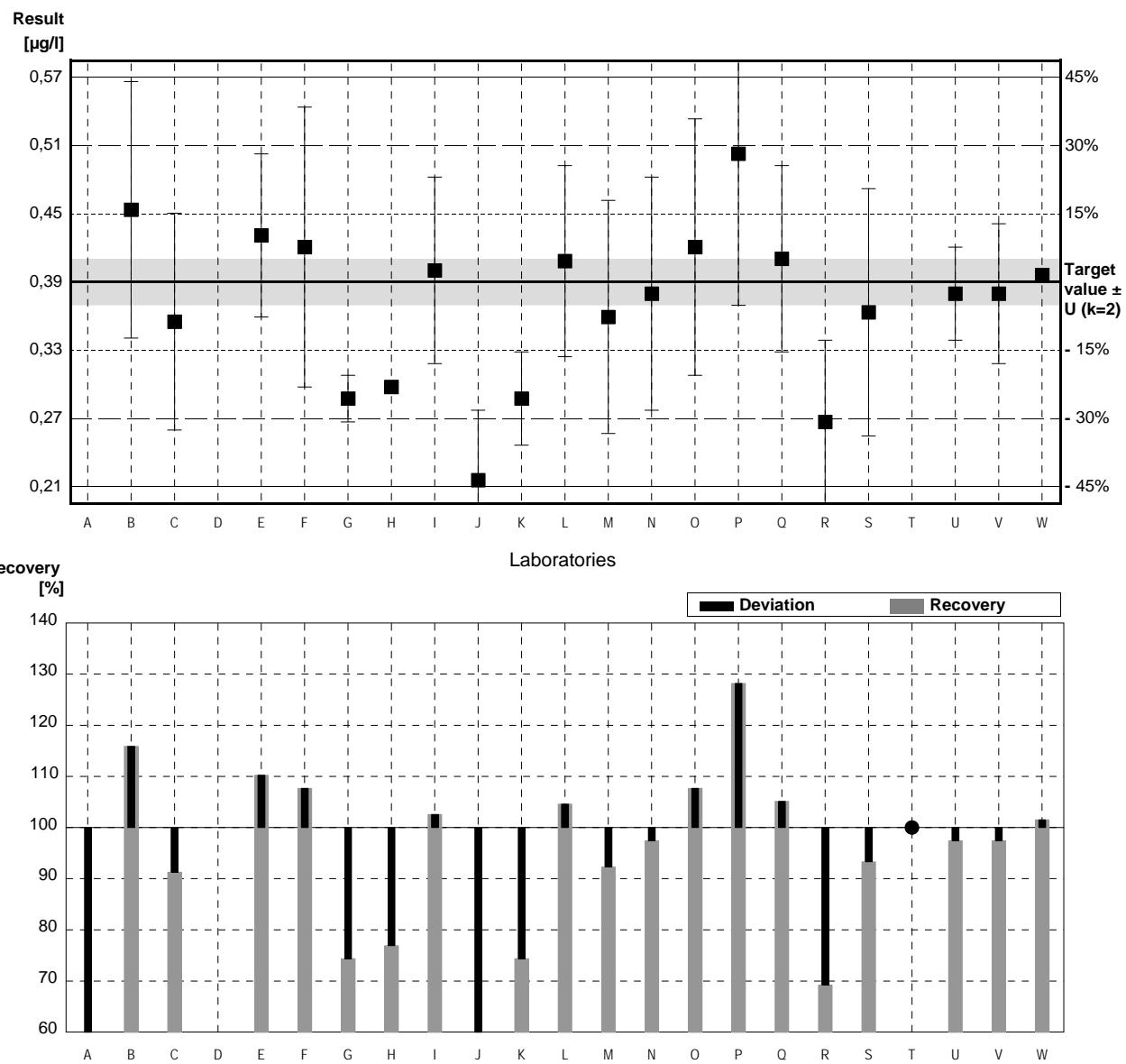
Target value $\pm U$ ($k=2$) 0,39 µg/l \pm 0,02 µg/l

IFA result $\pm U$ ($k=2$) 0,40 µg/l \pm 0,06 µg/l

Stability test $\pm U$ ($k=2$) 0,41 µg/l \pm 0,06 µg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A	0,168 *		µg/l	43%	-3,79
B	0,452	0,11	µg/l	116%	1,06
C	0,356	0,093	µg/l	91%	-0,58
D			µg/l		
E	0,43	0,07	µg/l	110%	0,68
F	0,42	0,12	µg/l	108%	0,51
G	0,29	0,02	µg/l	74%	-1,71
H	0,3		µg/l	77%	-1,54
I	0,40	0,08	µg/l	103%	0,17
J	0,22	0,06	µg/l	56%	-2,91
K	0,29	0,04	µg/l	74%	-1,71
L	0,408	0,082	µg/l	105%	0,31
M	0,36	0,10	µg/l	92%	-0,51
N	0,38	0,10	µg/l	97%	-0,17
O	0,42	0,11	µg/l	108%	0,51
P	0,50	0,13	µg/l	128%	1,88
Q	0,41	0,08	µg/l	105%	0,34
R	0,27	0,07	µg/l	69%	-2,05
S	0,364	0,106	µg/l	93%	-0,44
T	<1,0		µg/l	*	
U	0,38	0,04	µg/l	97%	-0,17
V	0,38	0,06	µg/l	97%	-0,17
W	0,396	0,00323	µg/l	102%	0,10

	All results	Outliers excl.	Unit
Mean \pm CI(99%)	0,36 \pm 0,05	0,37 \pm 0,04	µg/l
Recov. \pm CI(99%)	92,7 \pm 12,7	95,2 \pm 11,1	%
SD between labs	0,08	0,07	µg/l
RSD between labs	22,0	18,3	%
n for calculation	21	20	



Sample C60B

Parameter Dibromochloromethane

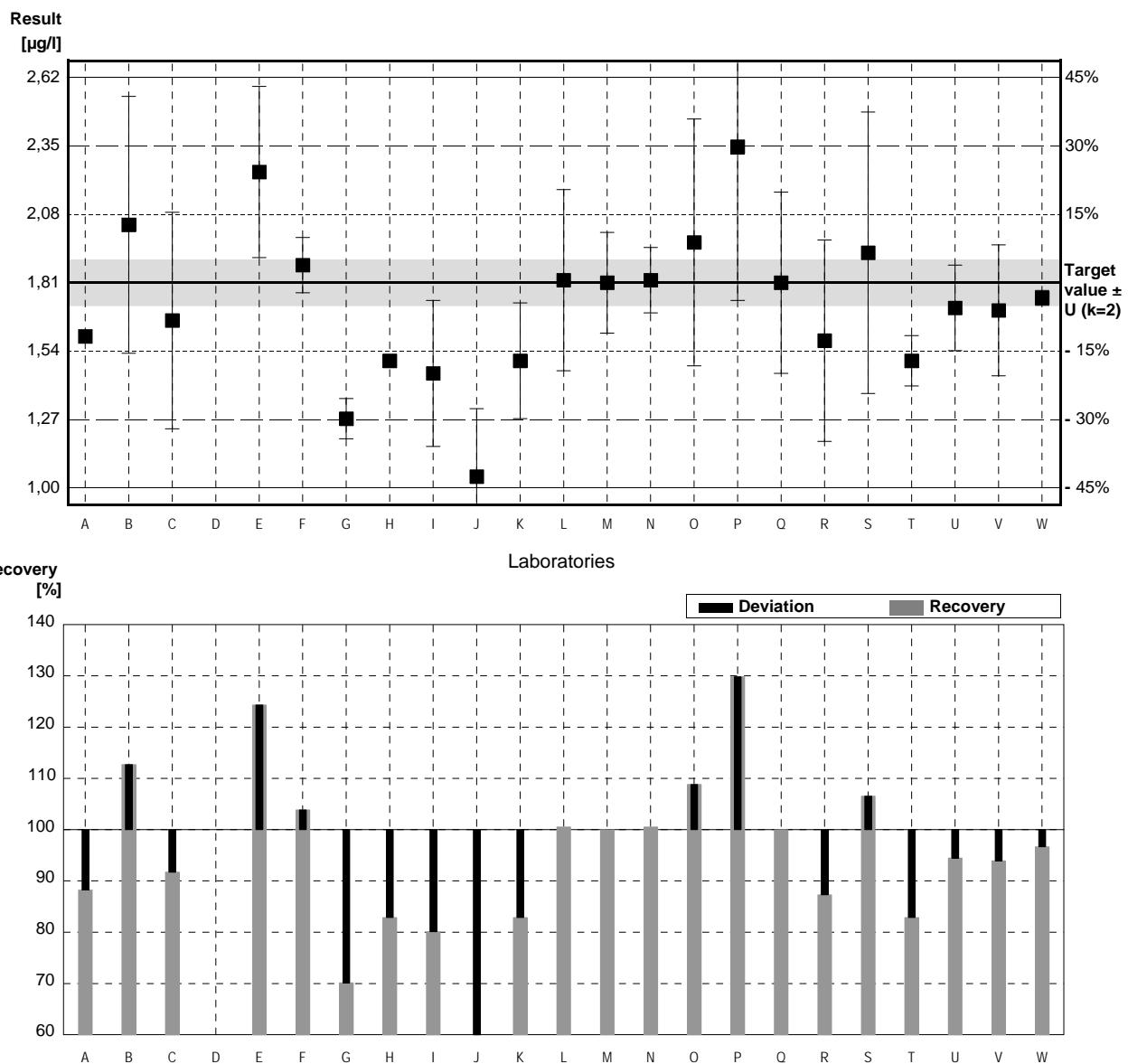
Target value $\pm U$ ($k=2$) 1,81 µg/l \pm 0,09 µg/l

IFA result $\pm U$ ($k=2$) 1,85 µg/l \pm 0,28 µg/l

Stability test $\pm U$ ($k=2$) 1,83 µg/l \pm 0,27 µg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A	1,597		µg/l	88%	-0,78
B	2,04	0,51	µg/l	113%	0,85
C	1,66	0,43	µg/l	92%	-0,55
D			µg/l		
E	2,25	0,34	µg/l	124%	1,62
F	1,88	0,11	µg/l	104%	0,26
G	1,27	0,08	µg/l	70%	-1,99
H	1,5		µg/l	83%	-1,14
I	1,45	0,29	µg/l	80%	-1,33
J	1,04	0,27	µg/l	57%	-2,84
K	1,50	0,23	µg/l	83%	-1,14
L	1,82	0,36	µg/l	101%	0,04
M	1,81	0,20	µg/l	100%	0,00
N	1,82	0,13	µg/l	101%	0,04
O	1,97	0,49	µg/l	109%	0,59
P	2,35	0,61	µg/l	130%	1,99
Q	1,81	0,36	µg/l	100%	0,00
R	1,58	0,40	µg/l	87%	-0,85
S	1,929	0,559	µg/l	107%	0,44
T	1,5	0,1	µg/l	83%	-1,14
U	1,71	0,17	µg/l	94%	-0,37
V	1,70	0,26	µg/l	94%	-0,41
W	1,75	0,02966	µg/l	97%	-0,22

	All results	Outliers excl.	Unit
Mean \pm CI(99%)	1,72 \pm 0,18	1,72 \pm 0,18	µg/l
Recov. \pm CI(99%)	95,3 \pm 9,9	95,3 \pm 9,9	%
SD between labs	0,30	0,30	µg/l
RSD between labs	17,3	17,3	%
n for calculation	22	22	



Sample C60A

Parameter Dichloromethane

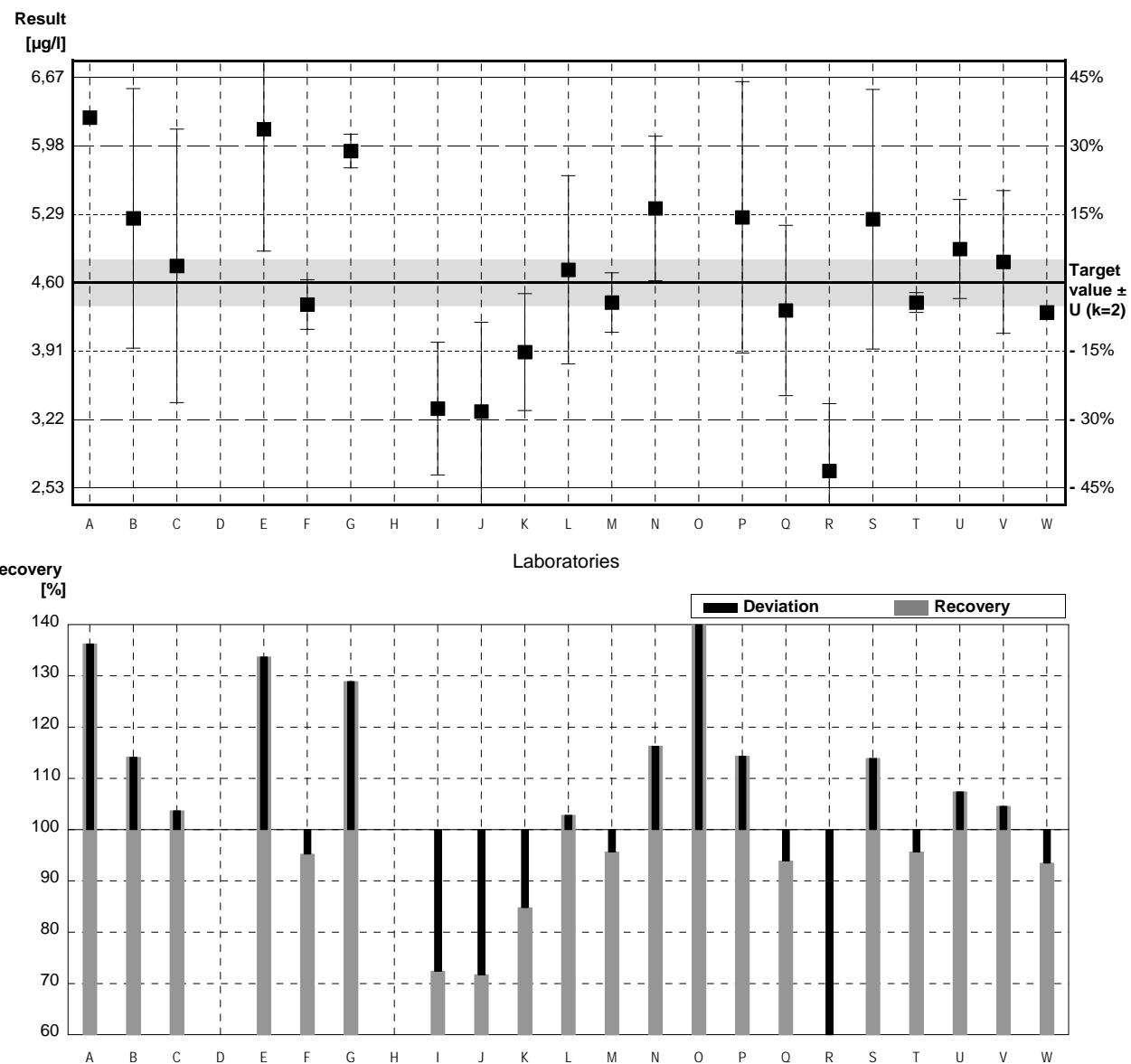
Target value $\pm U$ ($k=2$) 4,60 µg/l \pm 0,23 µg/l

IFA result $\pm U$ ($k=2$) 4,66 µg/l \pm 0,70 µg/l

Stability test $\pm U$ ($k=2$) 4,77 µg/l \pm 0,72 µg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A	6,267		µg/l	136%	2,79
B	5,25	1,31	µg/l	114%	1,09
C	4,77	1,38	µg/l	104%	0,28
D			µg/l		
E	6,15	1,23	µg/l	134%	2,59
F	4,38	0,25	µg/l	95%	-0,37
G	5,93	0,17	µg/l	129%	2,22
H			µg/l		
I	3,33	0,67	µg/l	72%	-2,12
J	3,3	0,90	µg/l	72%	-2,17
K	3,90	0,59	µg/l	85%	-1,17
L	4,73	0,95	µg/l	103%	0,22
M	4,4	0,3	µg/l	96%	-0,33
N	5,35	0,73	µg/l	116%	1,25
O	20,41 *	5,1	µg/l	444%	26,44
P	5,26	1,37	µg/l	114%	1,10
Q	4,32	0,86	µg/l	94%	-0,47
R	2,70	0,68	µg/l	59%	-3,18
S	5,241	1,310	µg/l	114%	1,07
T	4,4	0,1	µg/l	96%	-0,33
U	4,94	0,5	µg/l	107%	0,57
V	4,81	0,72	µg/l	105%	0,35
W	4,30	0,03516	µg/l	93%	-0,50

	All results	Outliers excl.	Unit
Mean \pm CI(99%)	5,44 \pm 2,21	4,69 \pm 0,60	µg/l
Recov. \pm CI(99%)	118,2 \pm 48,0	101,9 \pm 13,0	%
SD between labs	3,55	0,93	µg/l
RSD between labs	65,3	19,9	%
n for calculation	21	20	



Sample C60B

Parameter Dichloromethane

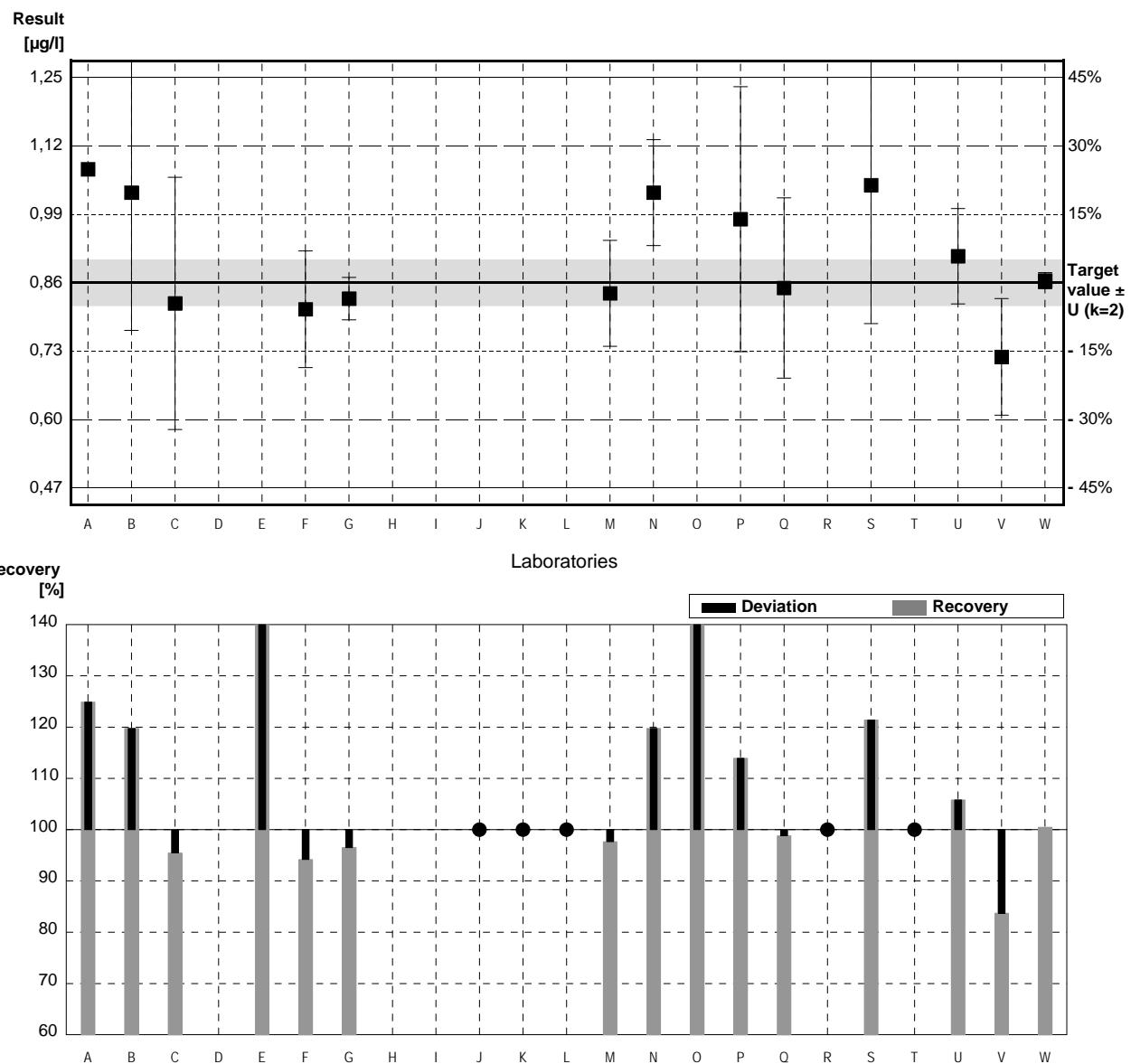
Target value \pm U (k=2) 0,86 µg/l \pm 0,04 µg/l

IFA result \pm U (k=2) 0,84 µg/l \pm 0,13 µg/l

Stability test \pm U (k=2) 0,82 µg/l \pm 0,12 µg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A	1,074		µg/l	125%	
B	1,03	0,26	µg/l	120%	
C	0,821	0,238	µg/l	95%	
D			µg/l		
E	1,26	0,19	µg/l	147%	
F	0,81	0,11	µg/l	94%	
G	0,83	0,04	µg/l	97%	
H			µg/l		
I	<ng		µg/l		
J	<2,0		µg/l	•	
K	<1,4		µg/l	•	
L	<1,00		µg/l	•	
M	0,84	0,10	µg/l	98%	
N	1,03	0,10	µg/l	120%	
O	29,76 *	7,44	µg/l	3460%	
P	0,98	0,25	µg/l	114%	
Q	0,85	0,17	µg/l	99%	
R	<1,0	0,25	µg/l	•	
S	1,044	0,261	µg/l	121%	
T	<1,5		µg/l	•	
U	0,91	0,09	µg/l	106%	
V	0,72	0,11	µg/l	84%	
W	0,864	0,01513	µg/l	100%	

	All results	Outliers excl.	Unit
Mean \pm CI(99%)	2,85 \pm 5,73	0,93 \pm 0,11	µg/l
Recov. \pm CI(99%)	332,0 \pm 666,0	108,5 \pm 13,3	%
SD between labs	7,44	0,14	µg/l
RSD between labs	260,8	15,3	%
n for calculation	15	14	



Sample C60A

Parameter 1,2-Dichloroethane

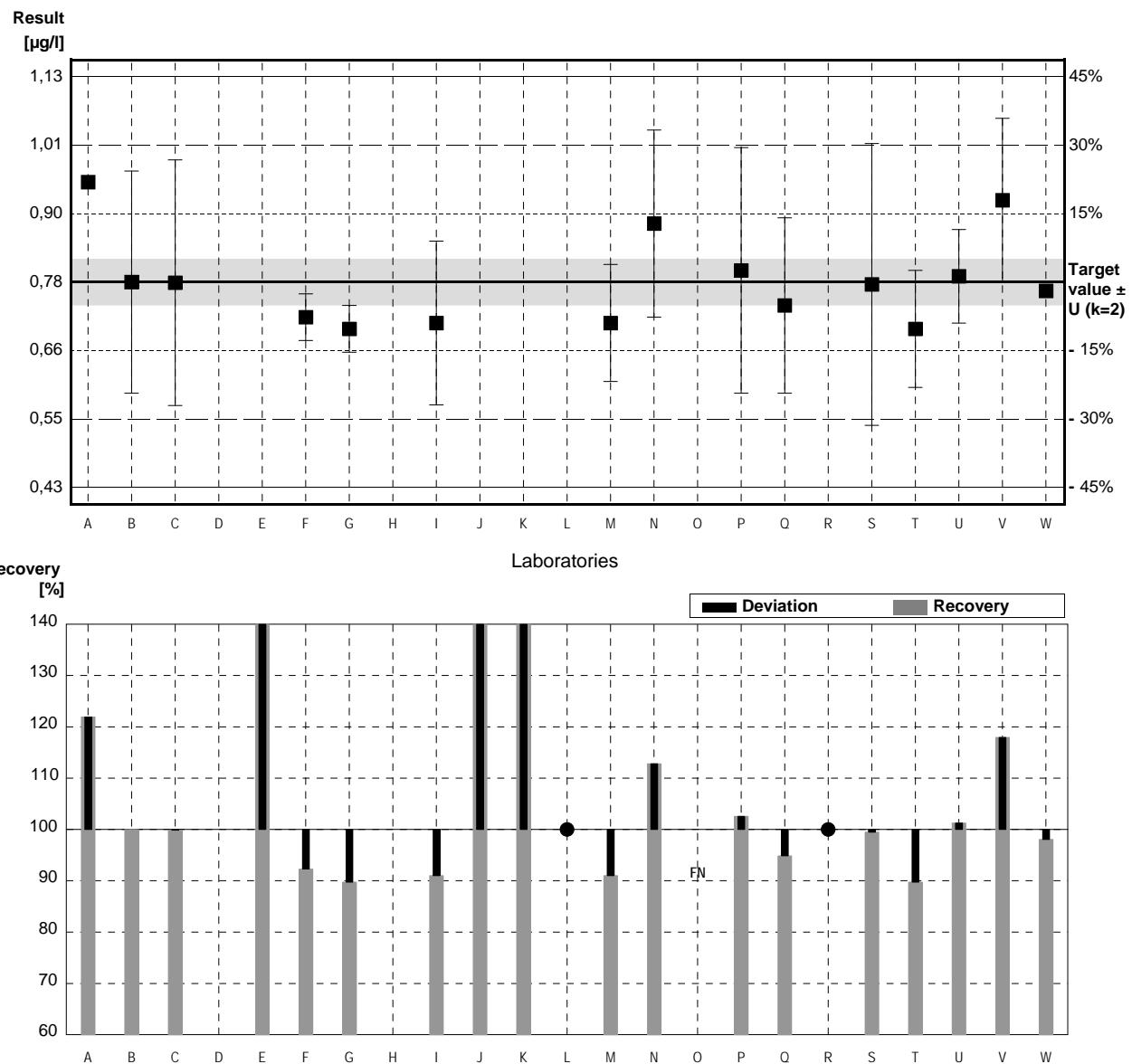
Target value \pm U (k=2) 0,78 µg/l \pm 0,04 µg/l

IFA result \pm U (k=2) 0,80 µg/l \pm 0,12 µg/l

Stability test \pm U (k=2) 0,80 µg/l \pm 0,12 µg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A	0,951		µg/l	122%	1,69
B	0,780	0,19	µg/l	100%	0,00
C	0,779	0,210	µg/l	100%	-0,01
D			µg/l		
E	1,36 *	0,20	µg/l	174%	5,72
F	0,72	0,04	µg/l	92%	-0,59
G	0,70	0,04	µg/l	90%	-0,79
H			µg/l		
I	0,71	0,14	µg/l	91%	-0,69
J	1,2 *	0,43	µg/l	154%	4,14
K	1,15 *	0,17	µg/l	147%	3,65
L	<1,00		µg/l	*	
M	0,71	0,10	µg/l	91%	-0,69
N	0,88	0,16	µg/l	113%	0,99
O	<0,1	0,05	µg/l	FN	
P	0,80	0,21	µg/l	103%	0,20
Q	0,74	0,15	µg/l	95%	-0,39
R	<1,0	0,25	µg/l	*	
S	0,776	0,241	µg/l	99%	-0,04
T	0,7	0,1	µg/l	90%	-0,79
U	0,79	0,08	µg/l	101%	0,10
V	0,92	0,14	µg/l	118%	1,38
W	0,765	0,00542	µg/l	98%	-0,15

	All results	Outliers excl.	Unit
Mean \pm CI(99%)	0,86 \pm 0,13	0,78 \pm 0,06	µg/l
Recov. \pm CI(99%)	109,9 \pm 16,9	100,2 \pm 7,8	%
SD between labs	0,19	0,08	µg/l
RSD between labs	22,4	10,1	%
n for calculation	18	15	



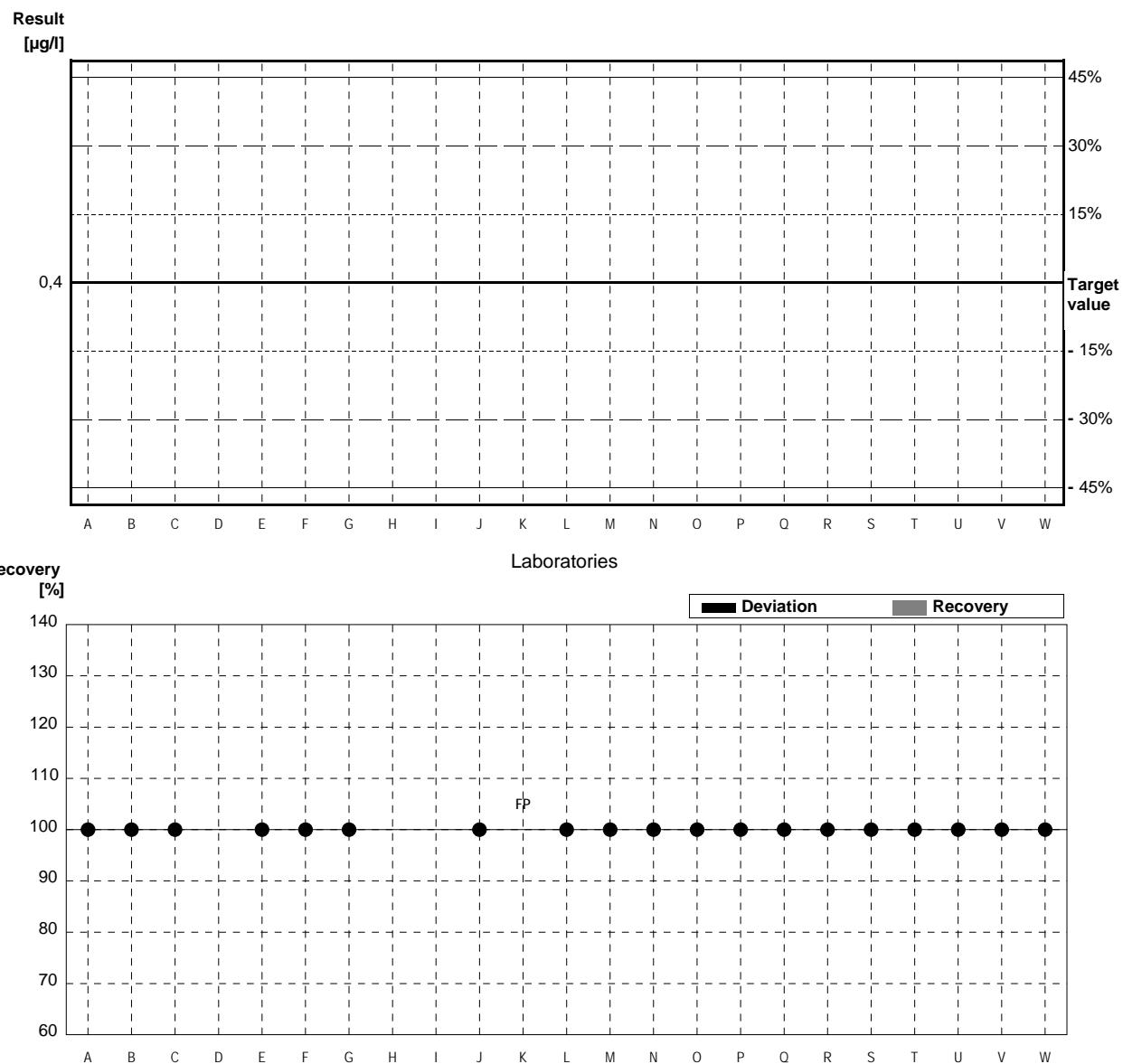
Sample C60B

Parameter 1,2-Dichloroethane

Target value <0,4 µg/l
 IFA result <0,2 µg/l
 Stability test <0,2 µg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A	<0,2		µg/l	•	
B	<0,10		µg/l	•	
C	<0,020		µg/l	•	
D			µg/l		
E	<0,1		µg/l	•	
F	<0,05		µg/l	•	
G	<0,1		µg/l	•	
H			µg/l		
I	<ng		µg/l		
J	<2,0		µg/l	•	
K	1,94	0,29	µg/l	FP	
L	<1,00		µg/l	•	
M	<0,30		µg/l	•	
N	<0,4		µg/l	•	
O	<0,1	0,05	µg/l	•	
P	<0,1	0,03	µg/l	•	
Q	<0,13		µg/l	•	
R	<1,0	0,25	µg/l	•	
S	<0,10		µg/l	•	
T	<1,0		µg/l	•	
U	<0,2		µg/l	•	
V	<0,5		µg/l	•	
W	<0,10		µg/l	•	

	All results	Outliers excl.	Unit
Mean ± CI(99%)			µg/l
Recov. ± CI(99%)			%
SD between labs			µg/l
RSD between labs			%
n for calculation			



Sample C60A

Parameter cis-1,2-Dichloroethene

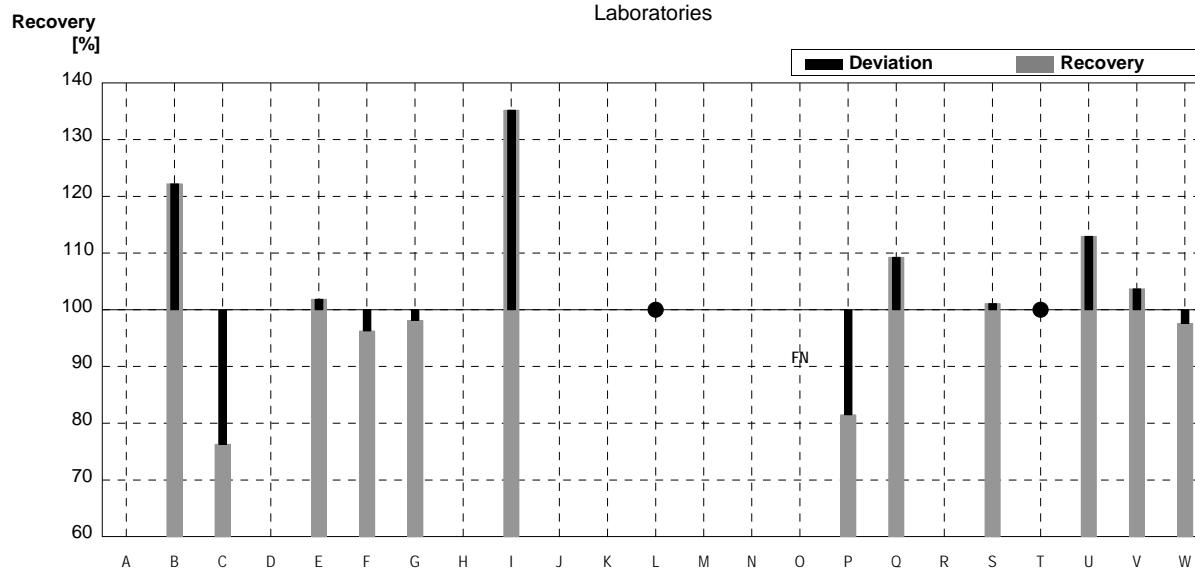
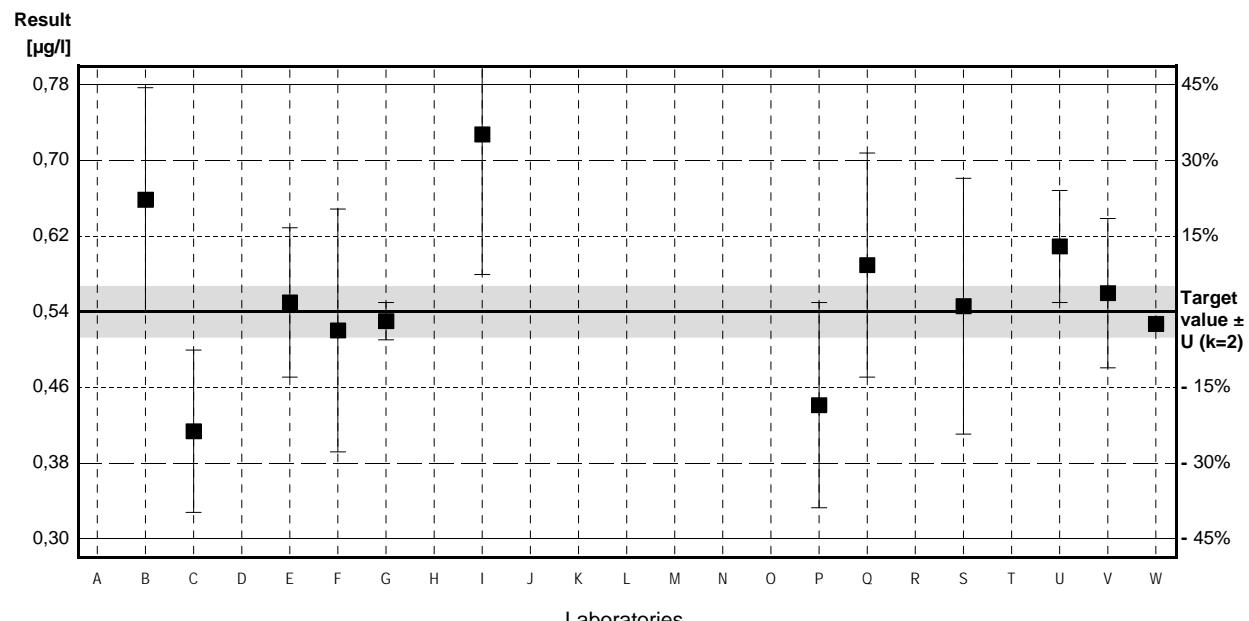
Target value $\pm U$ ($k=2$) 0,54 µg/l \pm 0,03 µg/l

IFA result $\pm U$ ($k=2$) 0,55 µg/l \pm 0,08 µg/l

Stability test $\pm U$ ($k=2$) 0,56 µg/l \pm 0,08 µg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A			µg/l		
B	0,660	0,12	µg/l	122%	1,59
C	0,412	0,087	µg/l	76%	-1,69
D			µg/l		
E	0,55	0,08	µg/l	102%	0,13
F	0,52	0,13	µg/l	96%	-0,26
G	0,53	0,02	µg/l	98%	-0,13
H			µg/l		
I	0,73 *	0,15	µg/l	135%	2,51
J			µg/l		
K			µg/l		
L	<1,00		µg/l	*	
M	n.a.		µg/l		
N			µg/l		
O	<0,1	0,05	µg/l	FN	
P	0,44	0,11	µg/l	81%	-1,32
Q	0,59	0,12	µg/l	109%	0,66
R			µg/l		
S	0,546	0,137	µg/l	101%	0,08
T	<1,0		µg/l	*	
U	0,61	0,06	µg/l	113%	0,93
V	0,56	0,08	µg/l	104%	0,26
W	0,527	0,00223	µg/l	98%	-0,17

	All results	Outliers excl.	Unit
Mean \pm CI(99%)	0,56 \pm 0,08	0,54 \pm 0,07	µg/l
Recov. \pm CI(99%)	103,0 \pm 14,4	100,1 \pm 12,4	%
SD between labs	0,09	0,07	µg/l
RSD between labs	15,6	13,0	%
n for calculation	12	11	



Sample C60B

Parameter cis-1,2-Dichloroethene

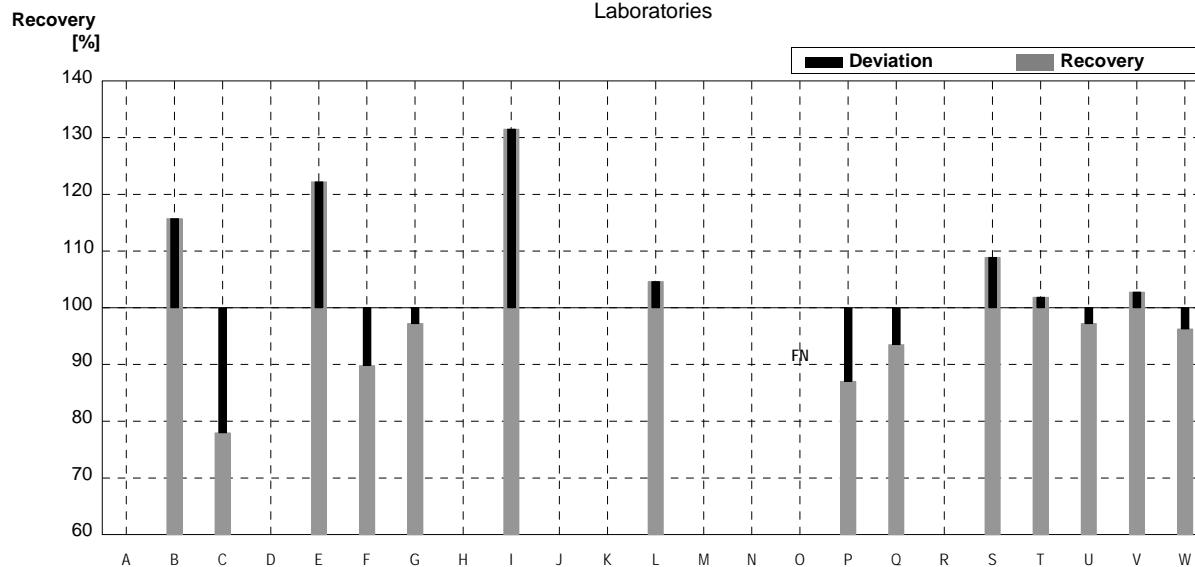
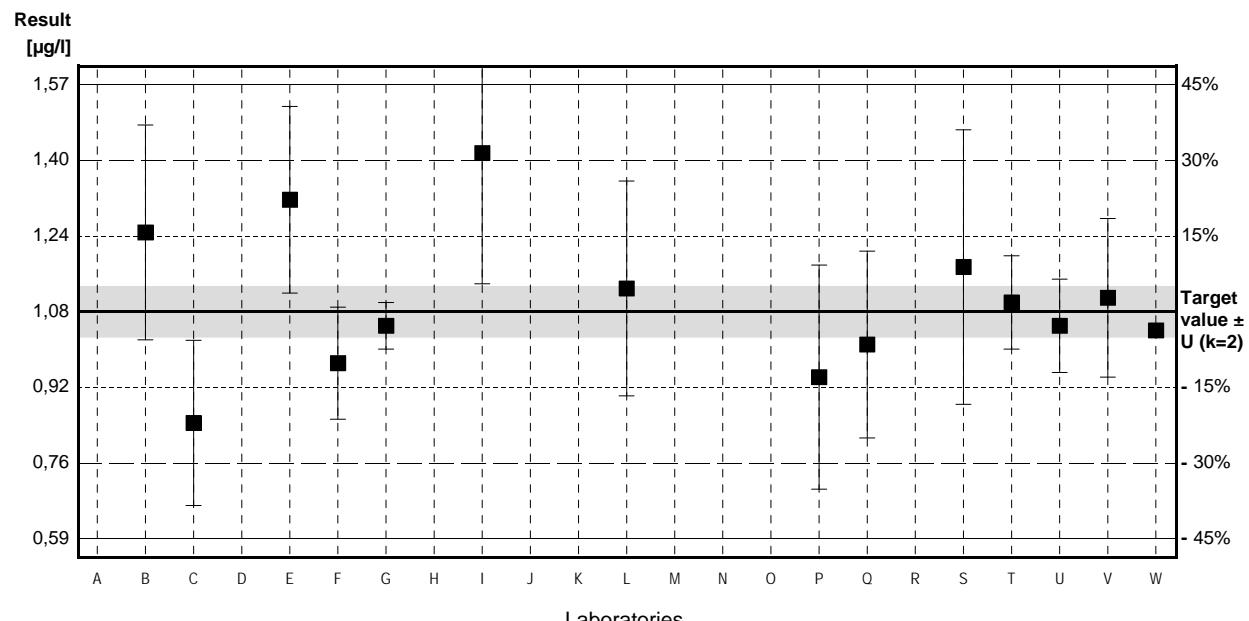
Target value $\pm U$ ($k=2$) 1,08 µg/l \pm 0,05 µg/l

IFA result $\pm U$ ($k=2$) 1,09 µg/l \pm 0,16 µg/l

Stability test $\pm U$ ($k=2$) 1,11 µg/l \pm 0,17 µg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A			µg/l		
B	1,25	0,23	µg/l	116%	1,12
C	0,842	0,177	µg/l	78%	-1,57
D			µg/l		
E	1,32	0,20	µg/l	122%	1,59
F	0,97	0,12	µg/l	90%	-0,73
G	1,05	0,05	µg/l	97%	-0,20
H			µg/l		
I	1,42	0,28	µg/l	131%	2,25
J			µg/l		
K			µg/l		
L	1,13	0,23	µg/l	105%	0,33
M	n.a.		µg/l		
N			µg/l		
O	<0,1	0,05	µg/l	FN	
P	0,94	0,24	µg/l	87%	-0,93
Q	1,01	0,20	µg/l	94%	-0,46
R			µg/l		
S	1,176	0,294	µg/l	109%	0,63
T	1,1	0,1	µg/l	102%	0,13
U	1,05	0,1	µg/l	97%	-0,20
V	1,11	0,17	µg/l	103%	0,20
W	1,04	0,01251	µg/l	96%	-0,26

	All results	Outliers excl.	Unit
Mean \pm CI(99%)	1,10 \pm 0,12	1,10 \pm 0,12	µg/l
Recov. \pm CI(99%)	101,9 \pm 11,4	101,9 \pm 11,4	%
SD between labs	0,15	0,15	µg/l
RSD between labs	13,9	13,9	%
n for calculation	14	14	



Sample C60A

Parameter trans-1,2-Dichloroethene

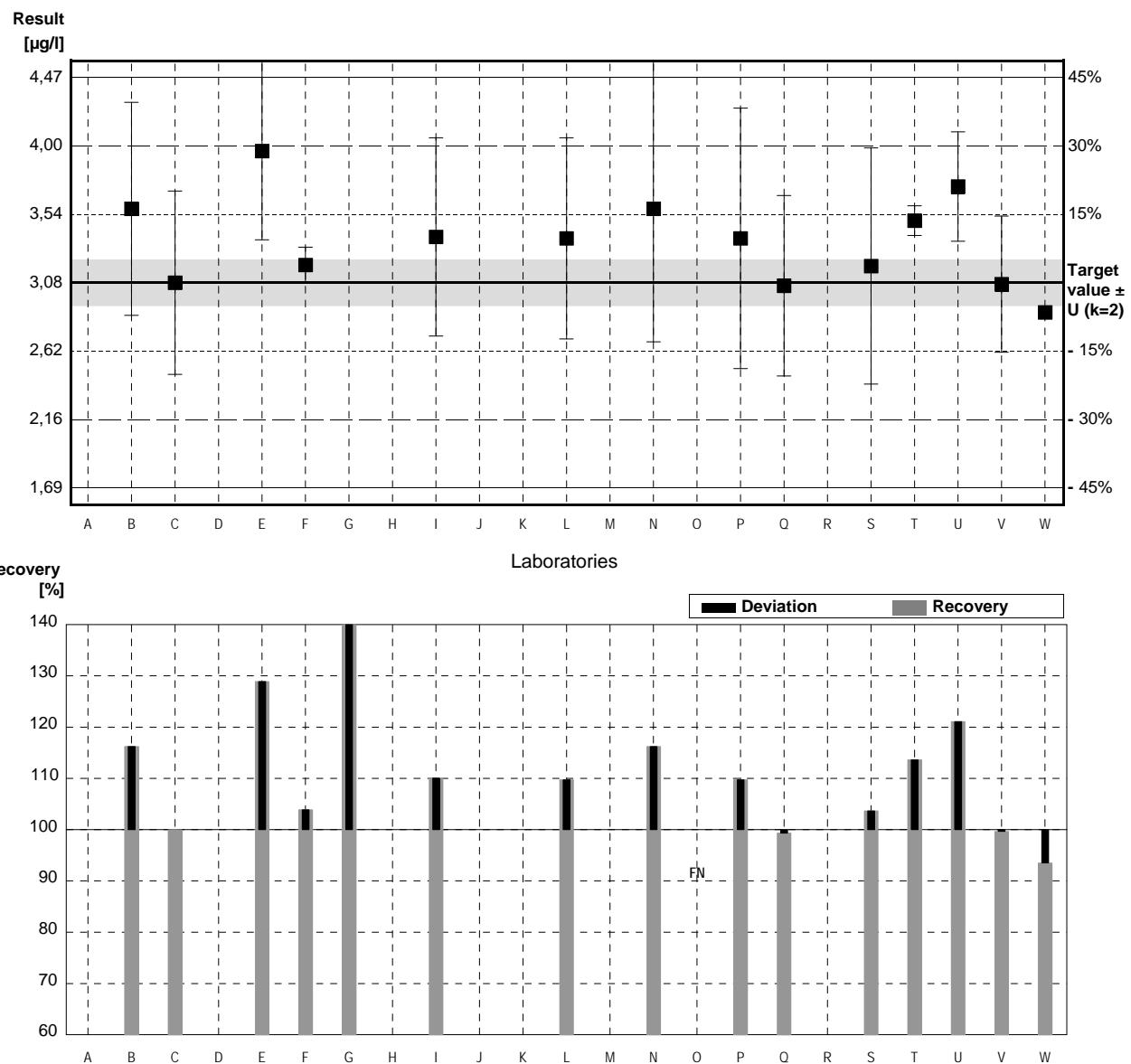
Target value \pm U (k=2) 3,08 µg/l \pm 0,15 µg/l

IFA result \pm U (k=2) 3,03 µg/l \pm 0,45 µg/l

Stability test \pm U (k=2) 3,17 µg/l \pm 0,48 µg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A			µg/l		
B	3,58	0,72	µg/l	116%	1,25
C	3,08	0,62	µg/l	100%	0,00
D			µg/l		
E	3,97	0,60	µg/l	129%	2,22
F	3,20	0,12	µg/l	104%	0,30
G	8,91 *	0,64	µg/l	289%	14,56
H			µg/l		
I	3,39	0,67	µg/l	110%	0,77
J			µg/l		
K			µg/l		
L	3,38	0,68	µg/l	110%	0,75
M	n.a.		µg/l		
N	3,58	0,90	µg/l	116%	1,25
O	<0,1	0,05	µg/l	FN	
P	3,38	0,88	µg/l	110%	0,75
Q	3,06	0,61	µg/l	99%	-0,05
R			µg/l		
S	3,193	0,798	µg/l	104%	0,28
T	3,5	0,1	µg/l	114%	1,05
U	3,73	0,37	µg/l	121%	1,62
V	3,07	0,46	µg/l	100%	-0,02
W	2,88	0,01380	µg/l	94%	-0,50

	All results	Outliers excl.	Unit
Mean \pm CI(99%)	3,73 \pm 1,13	3,36 \pm 0,24	µg/l
Recov. \pm CI(99%)	121,0 \pm 36,5	109,0 \pm 7,8	%
SD between labs	1,46	0,30	µg/l
RSD between labs	39,2	8,9	%
n for calculation	15	14	



Sample C60B

Parameter trans-1,2-Dichloroethene

Target value \pm U (k=2) 0,42 µg/l \pm 0,02 µg/l

IFA result \pm U (k=2) 0,41 µg/l \pm 0,06 µg/l

Stability test \pm U (k=2) 0,43 µg/l \pm 0,06 µg/l

Lab Code	Result	\pm	Unit	Recovery	z-Score
A			µg/l		
B	0,474	0,09	µg/l	113%	0,99
C	0,378	0,076	µg/l	90%	-0,77
D			µg/l		
E	0,47	0,07	µg/l	112%	0,92
F	0,41	0,03	µg/l	98%	-0,18
G	1,05 *	0,02	µg/l	250%	11,54
H			µg/l		
I	0,48	0,10	µg/l	114%	1,10
J			µg/l		
K			µg/l		
L	<1,00		µg/l	*	
M	n.a.		µg/l		
N	<1,0		µg/l	*	
O	<0,1	0,05	µg/l	FN	
P	0,45	0,12	µg/l	107%	0,55
Q	0,41	0,08	µg/l	98%	-0,18
R			µg/l		
S	0,449	0,112	µg/l	107%	0,53
T	0,7 *	0,1	µg/l	167%	5,13
U	0,51	0,05	µg/l	121%	1,65
V	<0,5		µg/l	*	
W	0,435	0,00508	µg/l	104%	0,27

	All results	Outliers excl.	Unit
Mean \pm CI(99%)	0,52 \pm 0,17	0,45 \pm 0,04	µg/l
Recov. \pm CI(99%)	123,3 \pm 39,8	106,3 \pm 9,7	%
SD between labs	0,19	0,04	µg/l
RSD between labs	35,9	8,8	%
n for calculation	12	10	

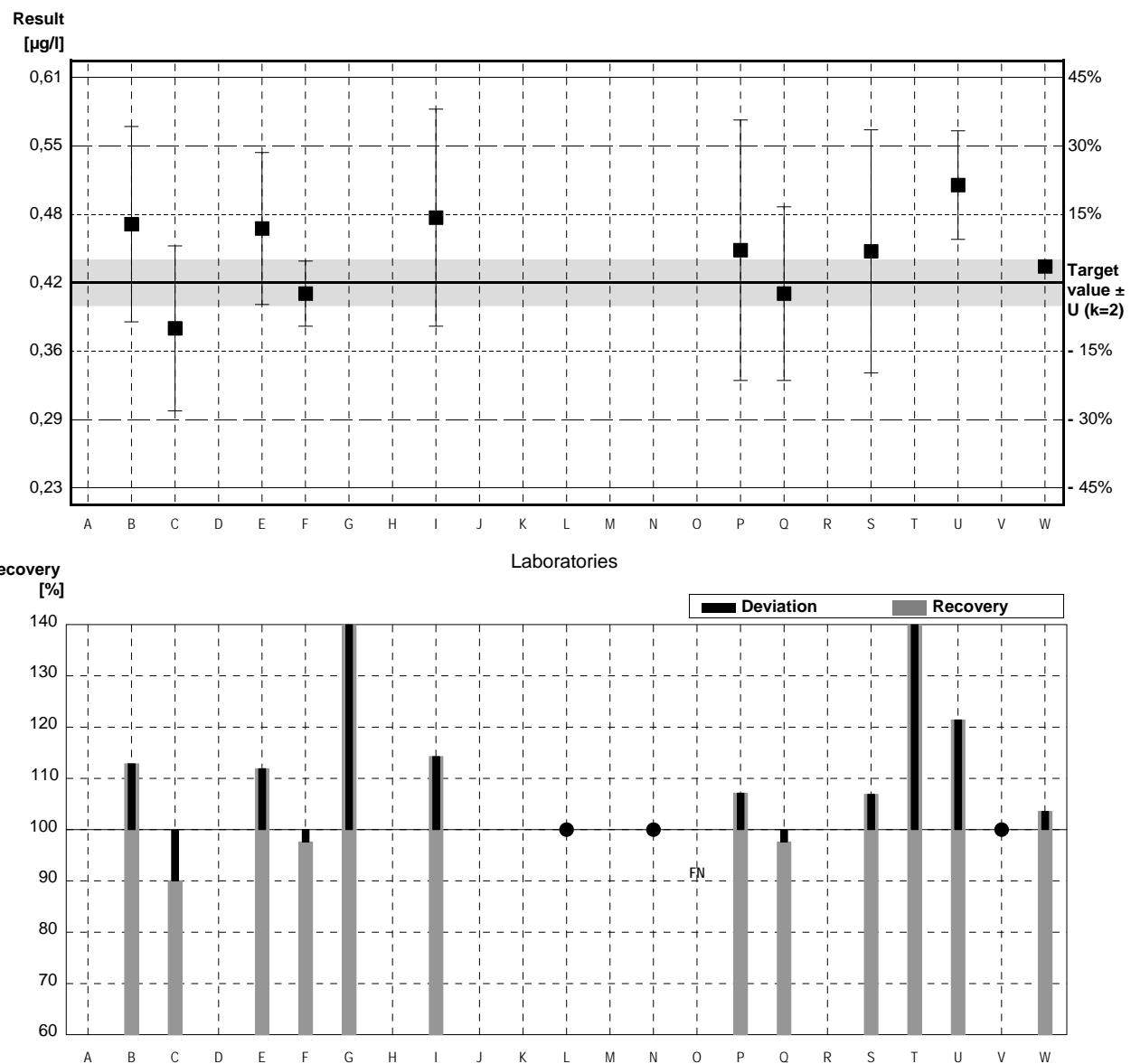


Illustration of Results Laboratory Oriented Part

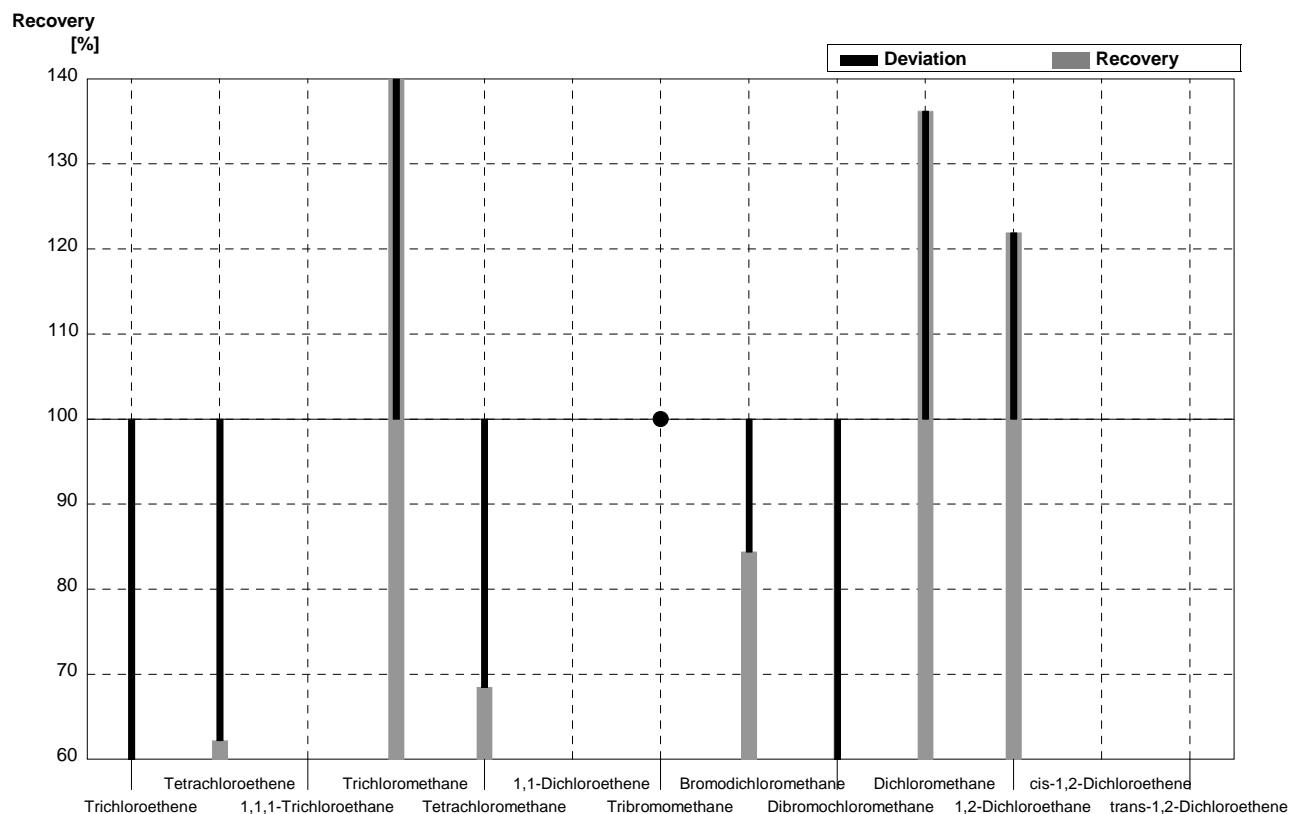
**Round C60
Volatile Halogenated Hydrocarbons**

Sample Dispatch: 1 April 2019



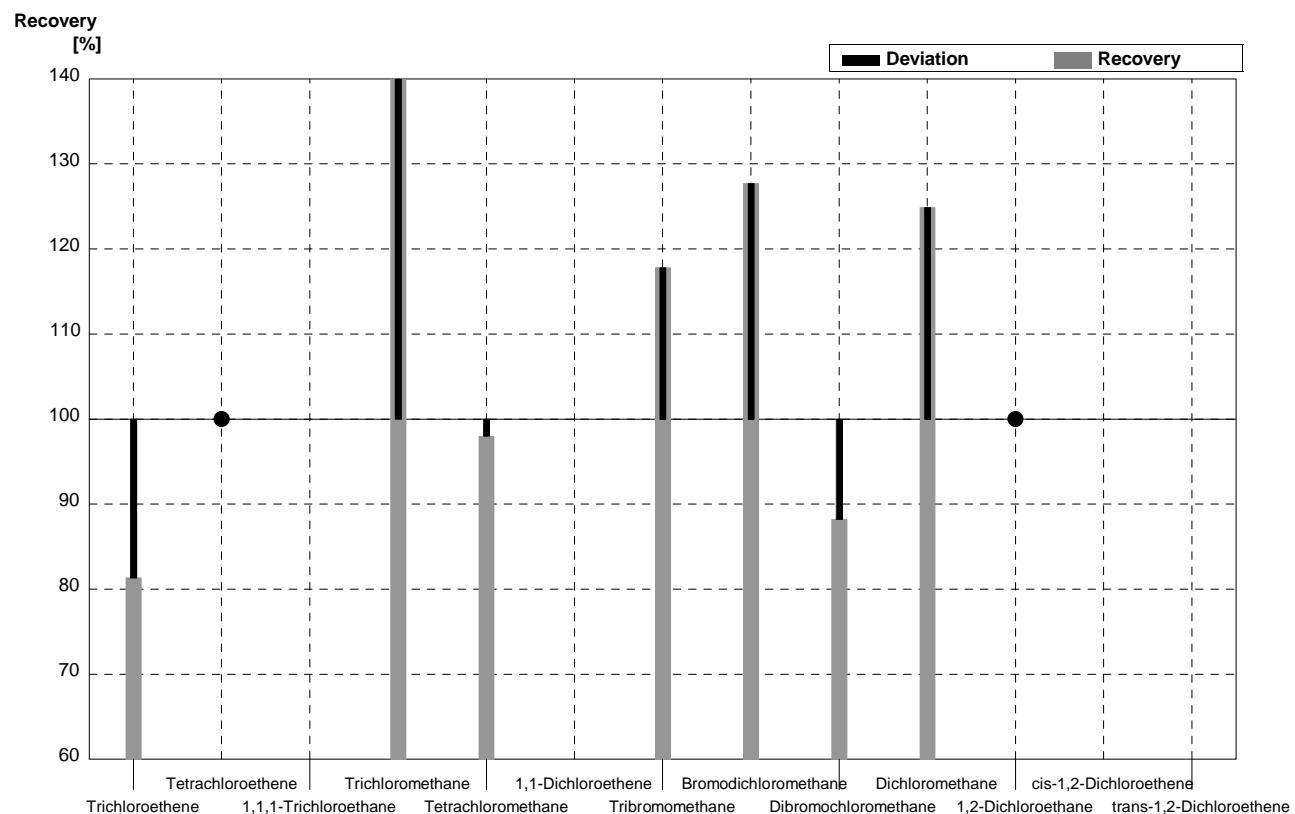
Sample C60A
Laboratory A

Parameter	Target value	$\pm U$ ($k=2$)	Result	\pm	Unit	Recovery
Trichloroethene	2,14	0,11	1,273		$\mu\text{g/l}$	59%
Tetrachloroethene	1,35	0,07	0,840		$\mu\text{g/l}$	62%
1,1,1-Trichloroethane	0,25	0,01			$\mu\text{g/l}$	
Trichloromethane	0,28	0,01	0,940		$\mu\text{g/l}$	336%
Tetrachloromethane	0,73	0,04	0,500		$\mu\text{g/l}$	68%
1,1-Dichloroethene	1,77	0,09			$\mu\text{g/l}$	
Tribromomethane	<0,04		<0,131		$\mu\text{g/l}$	•
Bromodichloromethane	0,41	0,02	0,346		$\mu\text{g/l}$	84%
Dibromochloromethane	0,39	0,02	0,168		$\mu\text{g/l}$	43%
Dichloromethane	4,60	0,23	6,267		$\mu\text{g/l}$	136%
1,2-Dichloroethane	0,78	0,04	0,951		$\mu\text{g/l}$	122%
cis-1,2-Dichloroethene	0,54	0,03			$\mu\text{g/l}$	
trans-1,2-Dichloroethene	3,08	0,15			$\mu\text{g/l}$	



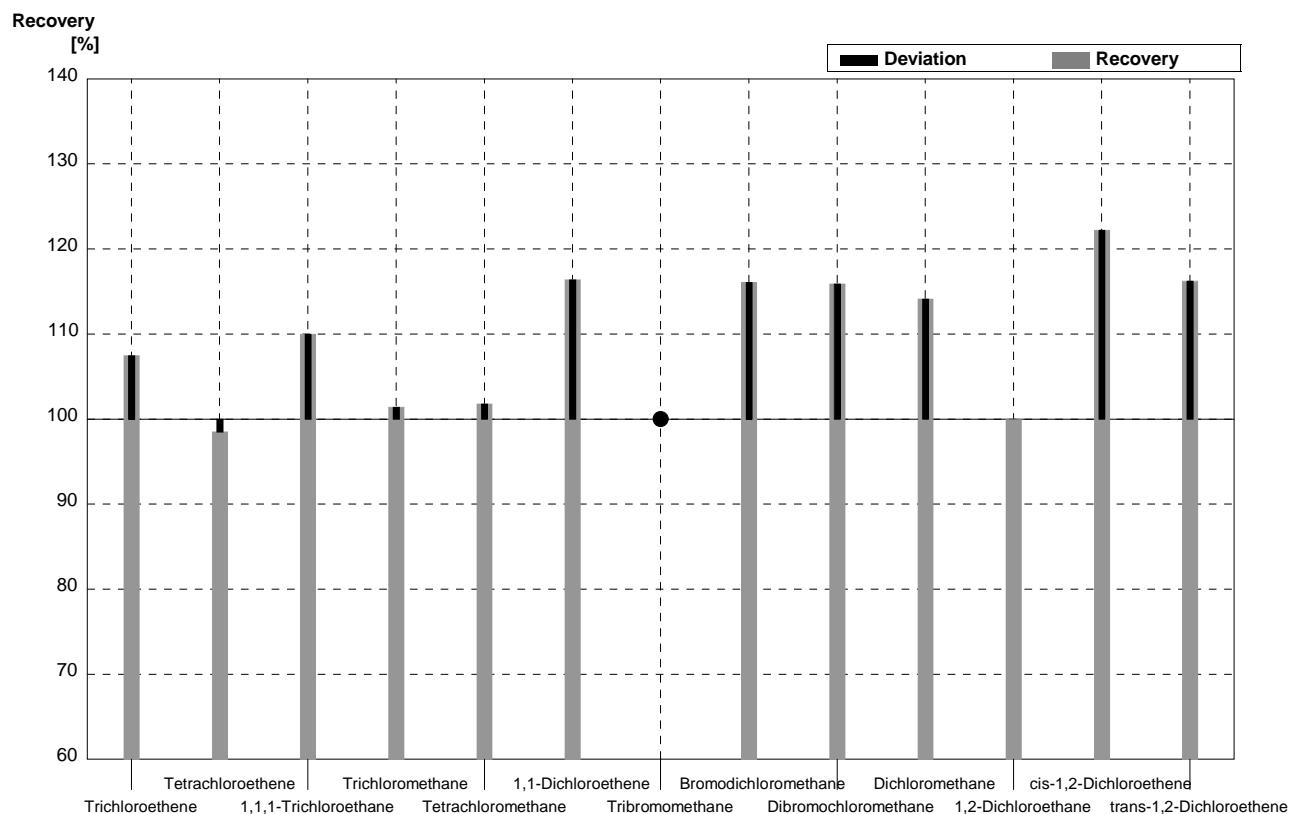
Sample C60B**Laboratory A**

Parameter	Target value	$\pm U$ ($k=2$)	Result	\pm	Unit	Recovery
Trichloroethene	0,37	0,02	0,301		$\mu\text{g/l}$	81%
Tetrachloroethene	<0,06		<0,091		$\mu\text{g/l}$	•
1,1,1-Trichloroethane	0,55	0,03			$\mu\text{g/l}$	
Trichloromethane	1,20	0,06	1,895		$\mu\text{g/l}$	158%
Tetrachloromethane	1,80	0,09	1,764		$\mu\text{g/l}$	98%
1,1-Dichloroethene	1,17	0,06			$\mu\text{g/l}$	
Tribromomethane	2,56	0,13	3,016		$\mu\text{g/l}$	118%
Bromodichloromethane	0,66	0,03	0,843		$\mu\text{g/l}$	128%
Dibromochloromethane	1,81	0,09	1,597		$\mu\text{g/l}$	88%
Dichloromethane	0,86	0,04	1,074		$\mu\text{g/l}$	125%
1,2-Dichloroethane	<0,4		<0,2		$\mu\text{g/l}$	•
cis-1,2-Dichloroethene	1,08	0,05			$\mu\text{g/l}$	
trans-1,2-Dichloroethene	0,42	0,02			$\mu\text{g/l}$	



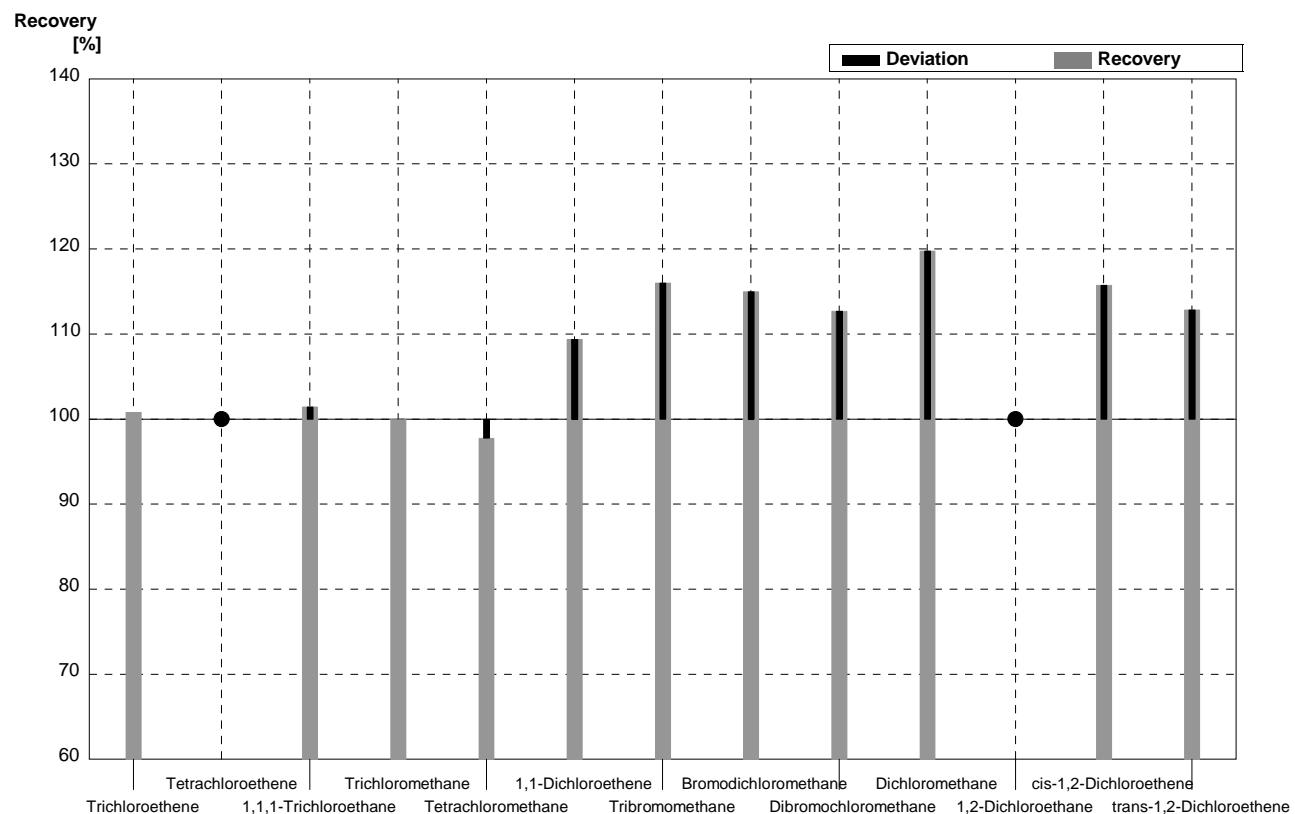
Sample C60A
Laboratory B

Parameter	Target value	$\pm U$ ($k=2$)	Result	\pm	Unit	Recovery
Trichloroethene	2,14	0,11	2,30	0,17	$\mu\text{g/l}$	107%
Tetrachloroethene	1,35	0,07	1,33	0,11	$\mu\text{g/l}$	99%
1,1,1-Trichloroethane	0,25	0,01	0,275	0,05	$\mu\text{g/l}$	110%
Trichloromethane	0,28	0,01	0,284	0,06	$\mu\text{g/l}$	101%
Tetrachloromethane	0,73	0,04	0,743	0,19	$\mu\text{g/l}$	102%
1,1-Dichloroethene	1,77	0,09	2,06	0,40	$\mu\text{g/l}$	116%
Tribromomethane	<0,04		<0,10		$\mu\text{g/l}$	•
Bromodichloromethane	0,41	0,02	0,476	0,12	$\mu\text{g/l}$	116%
Dibromochloromethane	0,39	0,02	0,452	0,11	$\mu\text{g/l}$	116%
Dichloromethane	4,60	0,23	5,25	1,31	$\mu\text{g/l}$	114%
1,2-Dichloroethane	0,78	0,04	0,780	0,19	$\mu\text{g/l}$	100%
cis-1,2-Dichloroethene	0,54	0,03	0,660	0,12	$\mu\text{g/l}$	122%
trans-1,2-Dichloroethene	3,08	0,15	3,58	0,72	$\mu\text{g/l}$	116%



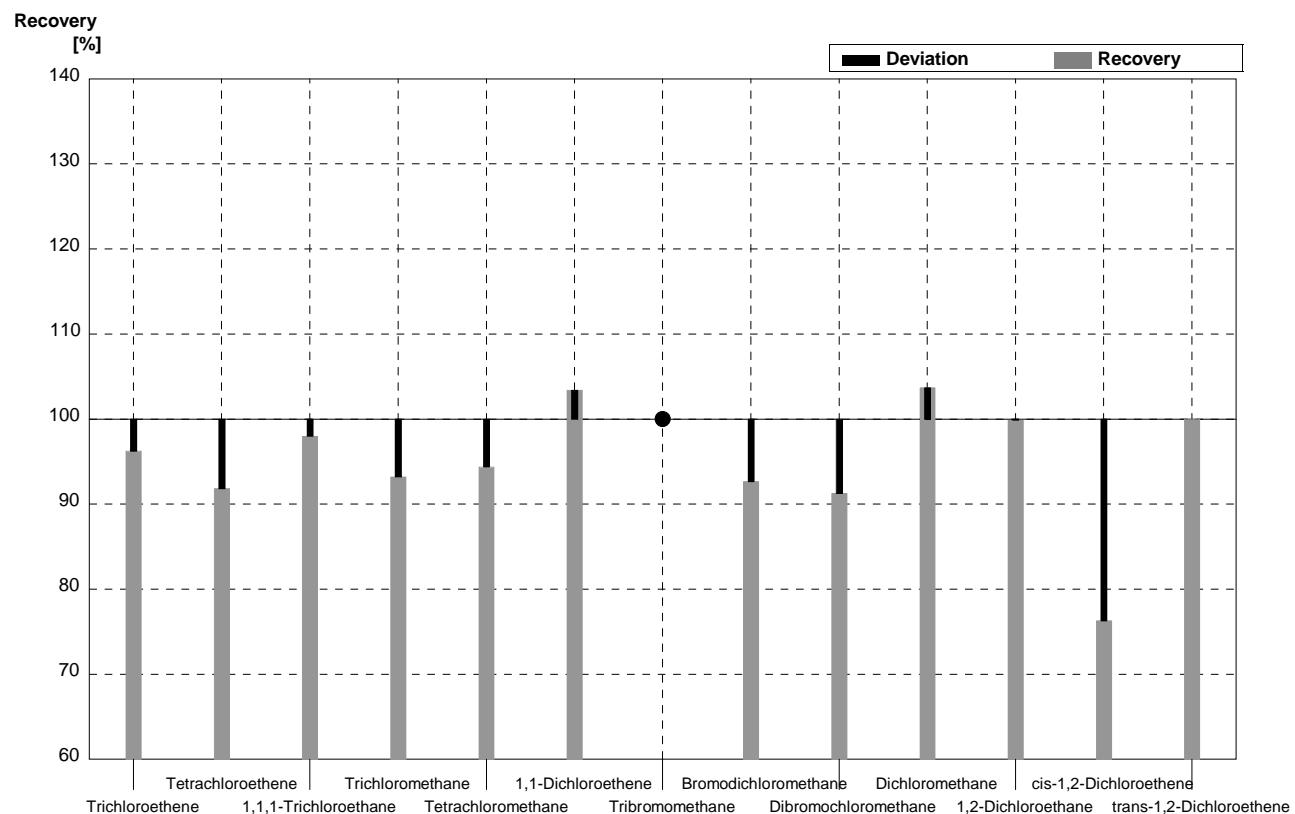
Sample C60B
Laboratory B

Parameter	Target value	$\pm U$ ($k=2$)	Result	\pm	Unit	Recovery
Trichloroethene	0,37	0,02	0,373	0,04	$\mu\text{g/l}$	101%
Tetrachloroethene	<0,06		<0,10		$\mu\text{g/l}$	•
1,1,1-Trichloroethane	0,55	0,03	0,558	0,11	$\mu\text{g/l}$	101%
Trichloromethane	1,20	0,06	1,20	0,24	$\mu\text{g/l}$	100%
Tetrachloromethane	1,80	0,09	1,76	0,44	$\mu\text{g/l}$	98%
1,1-Dichloroethene	1,17	0,06	1,28	0,25	$\mu\text{g/l}$	109%
Tribromomethane	2,56	0,13	2,97	0,74	$\mu\text{g/l}$	116%
Bromodichloromethane	0,66	0,03	0,759	0,19	$\mu\text{g/l}$	115%
Dibromochloromethane	1,81	0,09	2,04	0,51	$\mu\text{g/l}$	113%
Dichloromethane	0,86	0,04	1,03	0,26	$\mu\text{g/l}$	120%
1,2-Dichloroethane	<0,4		<0,10		$\mu\text{g/l}$	•
cis-1,2-Dichloroethene	1,08	0,05	1,25	0,23	$\mu\text{g/l}$	116%
trans-1,2-Dichloroethene	0,42	0,02	0,474	0,09	$\mu\text{g/l}$	113%



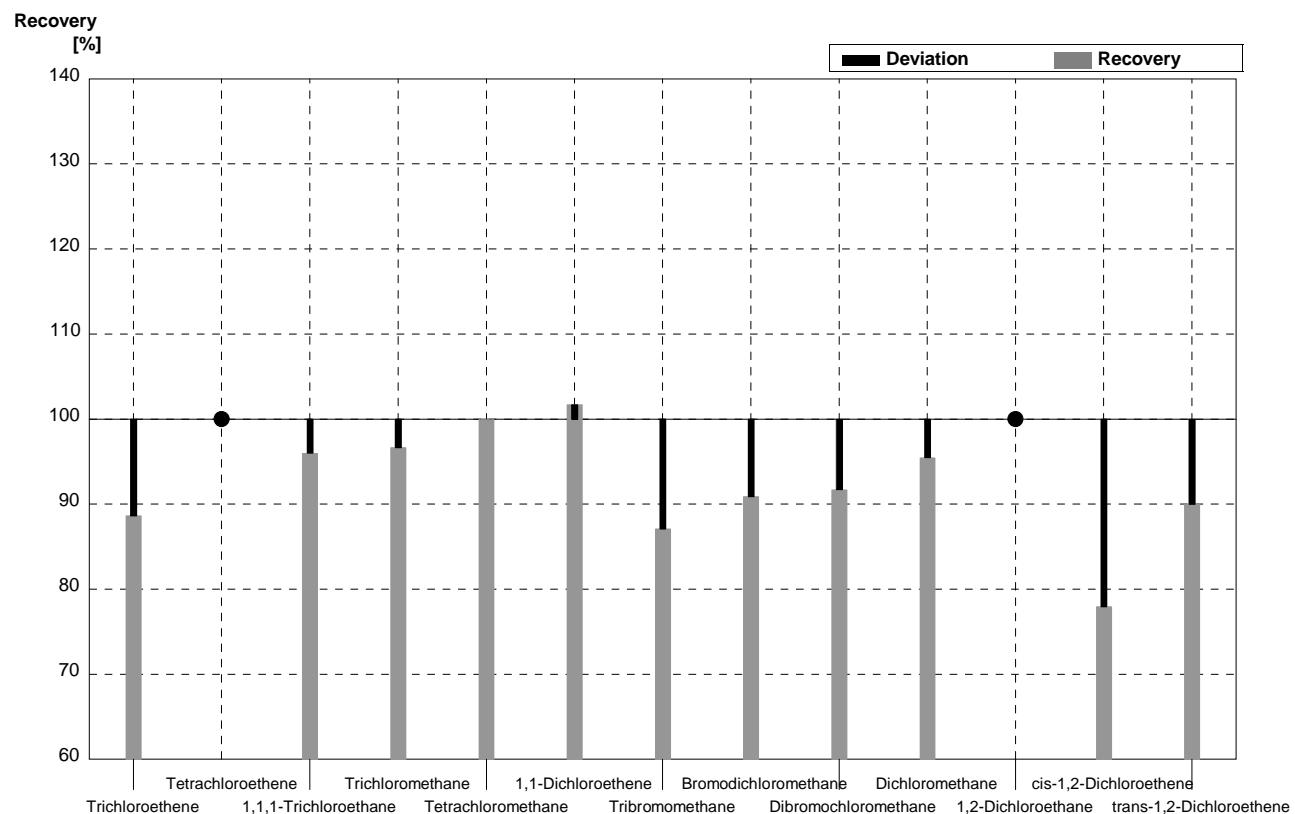
Sample C60A
Laboratory C

Parameter	Target value	$\pm U (k=2)$	Result	\pm	Unit	Recovery
Trichloroethene	2,14	0,11	2,06	0,33	$\mu\text{g/l}$	96%
Tetrachloroethene	1,35	0,07	1,24	0,35	$\mu\text{g/l}$	92%
1,1,1-Trichloroethane	0,25	0,01	0,245	0,049	$\mu\text{g/l}$	98%
Trichloromethane	0,28	0,01	0,261	0,063	$\mu\text{g/l}$	93%
Tetrachloromethane	0,73	0,04	0,689	0,138	$\mu\text{g/l}$	94%
1,1-Dichloroethene	1,77	0,09	1,830	0,458	$\mu\text{g/l}$	103%
Tribromomethane	<0,04		<0,020		$\mu\text{g/l}$	•
Bromodichloromethane	0,41	0,02	0,380	0,091	$\mu\text{g/l}$	93%
Dibromochloromethane	0,39	0,02	0,356	0,093	$\mu\text{g/l}$	91%
Dichloromethane	4,60	0,23	4,77	1,38	$\mu\text{g/l}$	104%
1,2-Dichloroethane	0,78	0,04	0,779	0,210	$\mu\text{g/l}$	100%
cis-1,2-Dichloroethene	0,54	0,03	0,412	0,087	$\mu\text{g/l}$	76%
trans-1,2-Dichloroethene	3,08	0,15	3,08	0,62	$\mu\text{g/l}$	100%



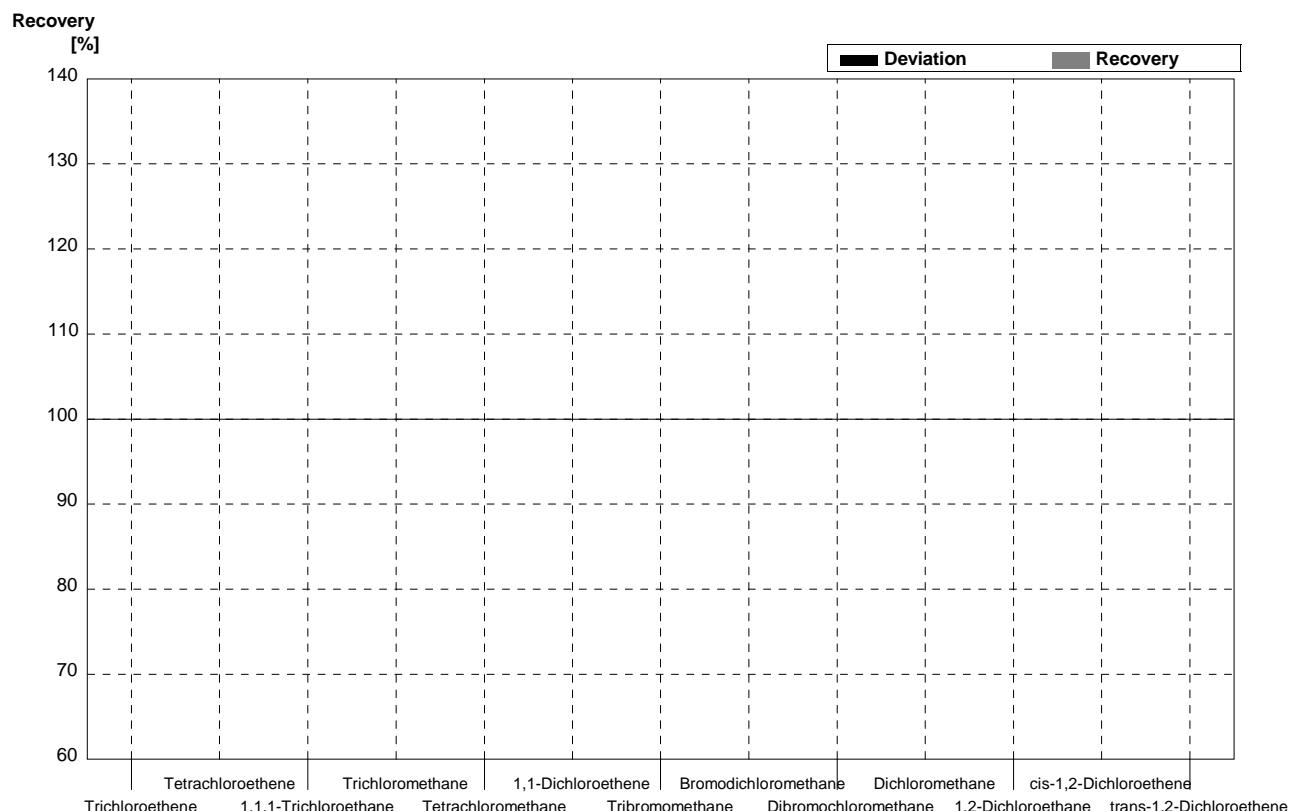
Sample C60B
Laboratory C

Parameter	Target value	$\pm U$ ($k=2$)	Result	\pm	Unit	Recovery
Trichloroethene	0,37	0,02	0,328	0,052	$\mu\text{g/l}$	89%
Tetrachloroethene	<0,06		<0,020		$\mu\text{g/l}$	•
1,1,1-Trichloroethane	0,55	0,03	0,528	0,106	$\mu\text{g/l}$	96%
Trichloromethane	1,20	0,06	1,16	0,28	$\mu\text{g/l}$	97%
Tetrachloromethane	1,80	0,09	1,80	0,36	$\mu\text{g/l}$	100%
1,1-Dichloroethene	1,17	0,06	1,19	0,30	$\mu\text{g/l}$	102%
Tribromomethane	2,56	0,13	2,23	0,6	$\mu\text{g/l}$	87%
Bromodichloromethane	0,66	0,03	0,600	0,144	$\mu\text{g/l}$	91%
Dibromochloromethane	1,81	0,09	1,66	0,43	$\mu\text{g/l}$	92%
Dichloromethane	0,86	0,04	0,821	0,238	$\mu\text{g/l}$	95%
1,2-Dichloroethane	<0,4		<0,020		$\mu\text{g/l}$	•
cis-1,2-Dichloroethene	1,08	0,05	0,842	0,177	$\mu\text{g/l}$	78%
trans-1,2-Dichloroethene	0,42	0,02	0,378	0,076	$\mu\text{g/l}$	90%



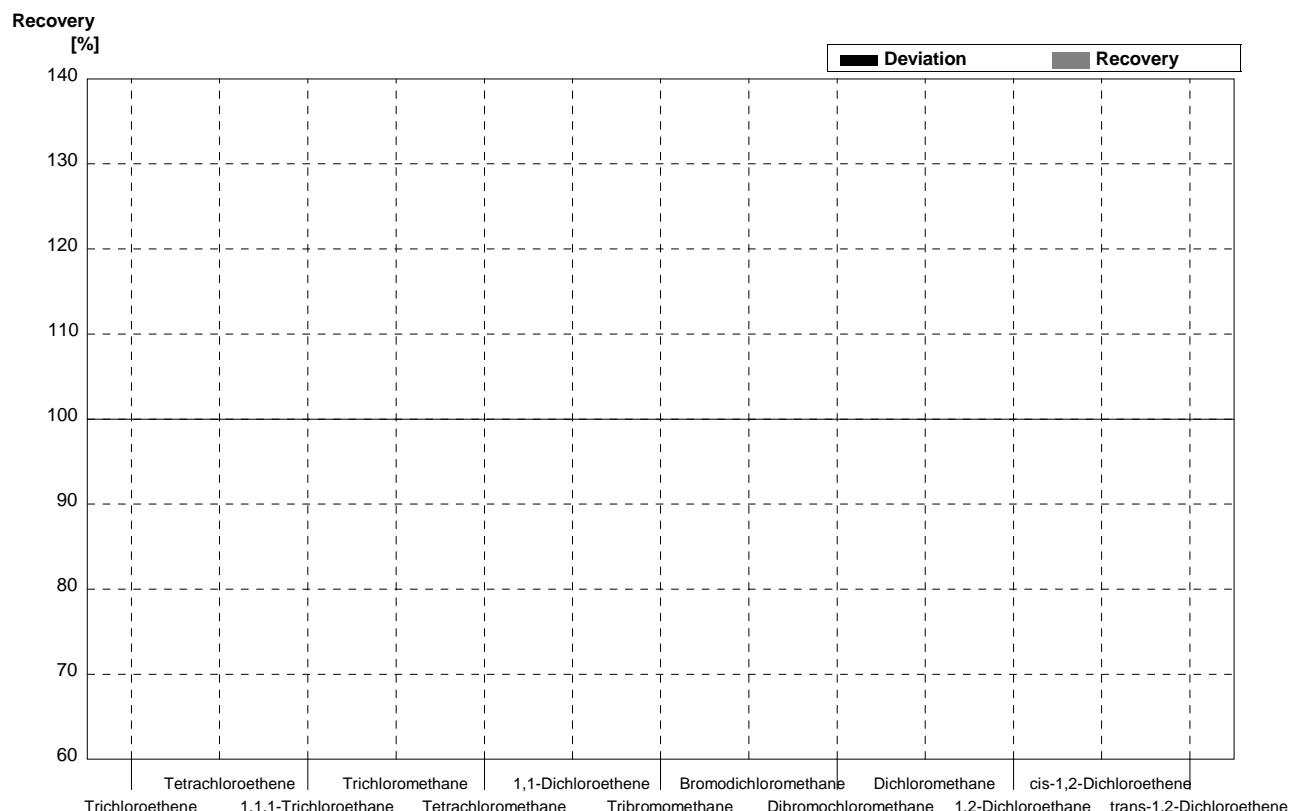
Sample C60A
Laboratory D

Parameter	Target value	$\pm U (k=2)$	Result	\pm	Unit	Recovery
Trichloroethene	2,14	0,11			$\mu\text{g/l}$	
Tetrachloroethene	1,35	0,07			$\mu\text{g/l}$	
1,1,1-Trichloroethane	0,25	0,01			$\mu\text{g/l}$	
Trichloromethane	0,28	0,01			$\mu\text{g/l}$	
Tetrachloromethane	0,73	0,04			$\mu\text{g/l}$	
1,1-Dichloroethene	1,77	0,09			$\mu\text{g/l}$	
Tribromomethane	<0,04				$\mu\text{g/l}$	
Bromodichloromethane	0,41	0,02			$\mu\text{g/l}$	
Dibromochloromethane	0,39	0,02			$\mu\text{g/l}$	
Dichloromethane	4,60	0,23			$\mu\text{g/l}$	
1,2-Dichloroethane	0,78	0,04			$\mu\text{g/l}$	
cis-1,2-Dichloroethene	0,54	0,03			$\mu\text{g/l}$	
trans-1,2-Dichloroethene	3,08	0,15			$\mu\text{g/l}$	



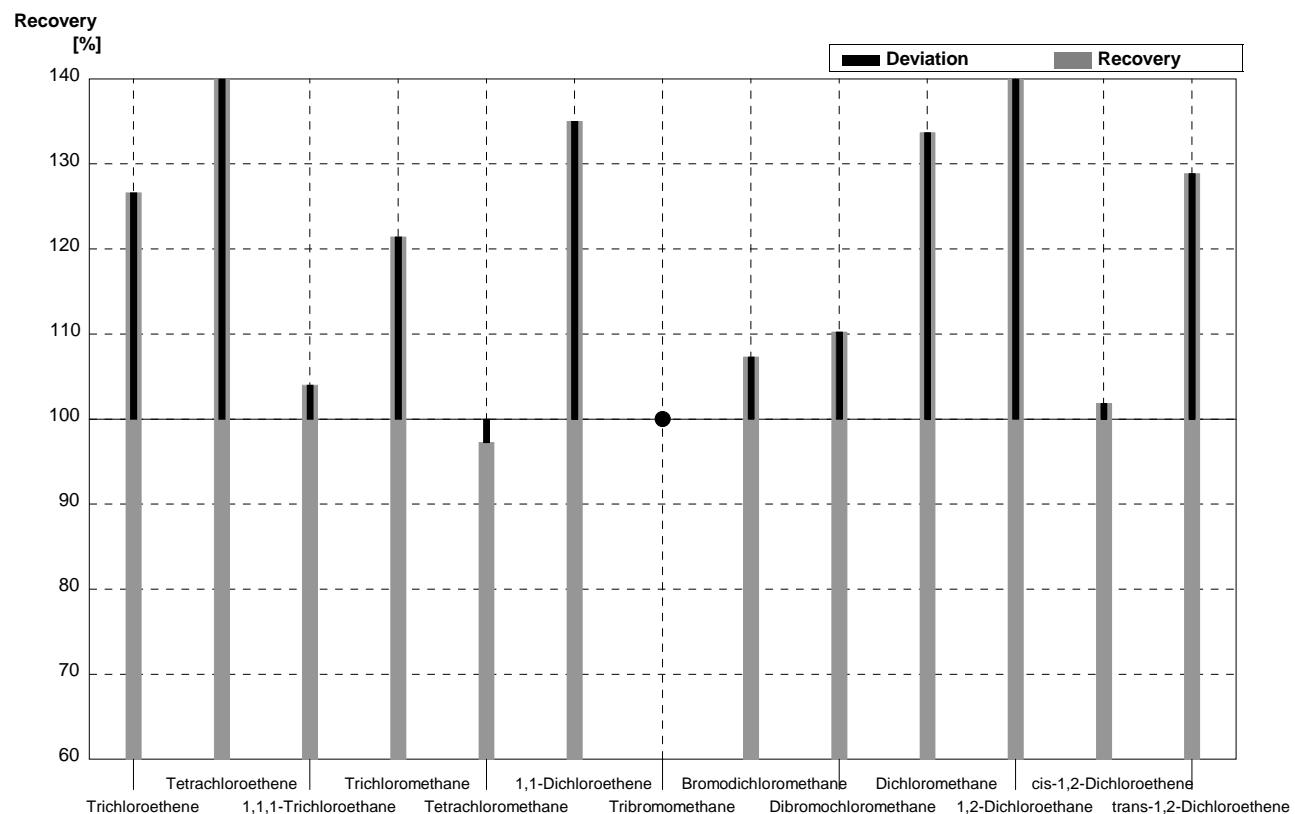
Sample C60B
Laboratory D

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Trichloroethene	0,37	0,02			µg/l	
Tetrachloroethene	<0,06				µg/l	
1,1,1-Trichloroethane	0,55	0,03			µg/l	
Trichloromethane	1,20	0,06			µg/l	
Tetrachloromethane	1,80	0,09			µg/l	
1,1-Dichloroethene	1,17	0,06			µg/l	
Tribromomethane	2,56	0,13			µg/l	
Bromodichloromethane	0,66	0,03			µg/l	
Dibromochloromethane	1,81	0,09			µg/l	
Dichloromethane	0,86	0,04			µg/l	
1,2-Dichloroethane	<0,4				µg/l	
cis-1,2-Dichloroethene	1,08	0,05			µg/l	
trans-1,2-Dichloroethene	0,42	0,02			µg/l	



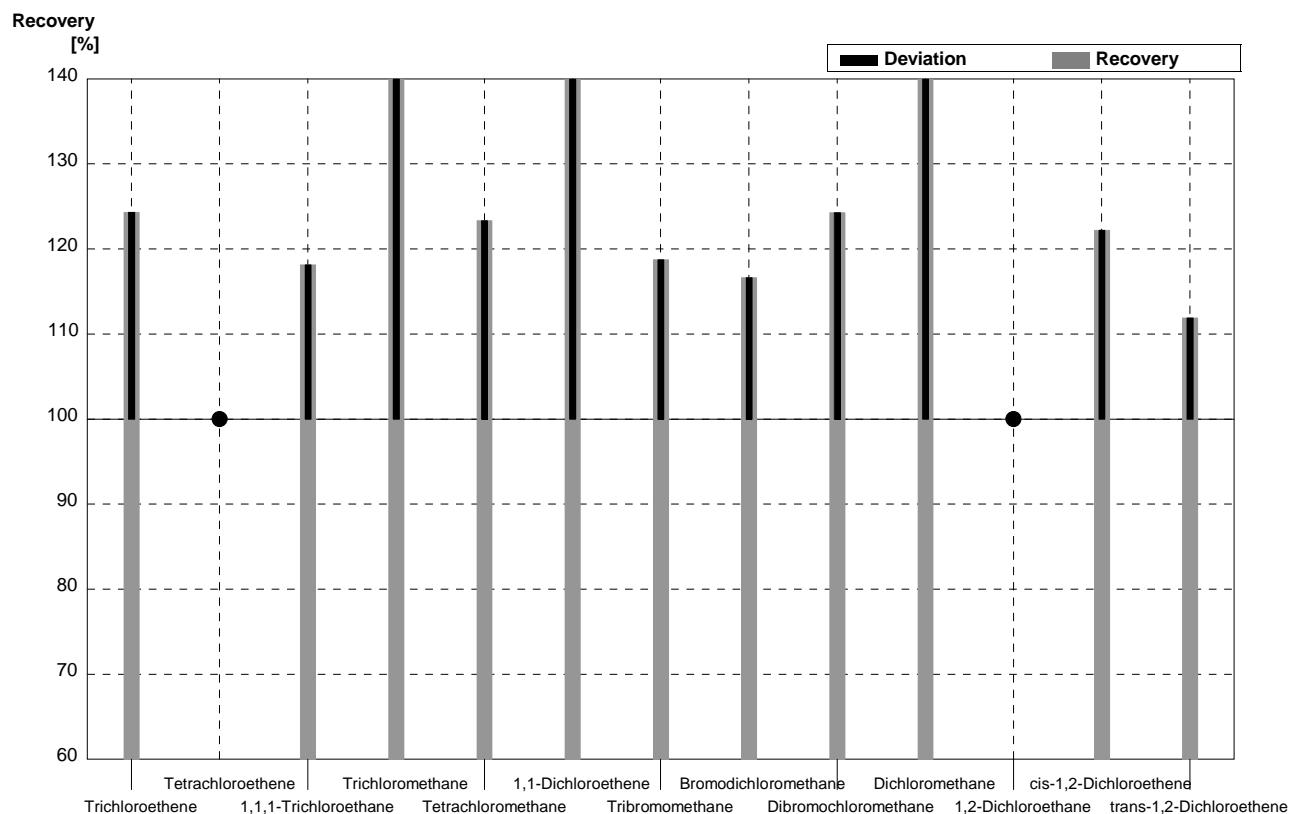
Sample C60A
Laboratory E

Parameter	Target value	$\pm U (k=2)$	Result	\pm	Unit	Recovery
Trichloroethene	2,14	0,11	2,71	0,41	$\mu\text{g/l}$	127%
Tetrachloroethene	1,35	0,07	2,09	0,31	$\mu\text{g/l}$	155%
1,1,1-Trichloroethane	0,25	0,01	0,26	0,04	$\mu\text{g/l}$	104%
Trichloromethane	0,28	0,01	0,34	0,05	$\mu\text{g/l}$	121%
Tetrachloromethane	0,73	0,04	0,71	0,11	$\mu\text{g/l}$	97%
1,1-Dichloroethene	1,77	0,09	2,39	0,48	$\mu\text{g/l}$	135%
Tribromomethane	<0,04		<0,1		$\mu\text{g/l}$	•
Bromodichloromethane	0,41	0,02	0,44	0,07	$\mu\text{g/l}$	107%
Dibromochloromethane	0,39	0,02	0,43	0,07	$\mu\text{g/l}$	110%
Dichloromethane	4,60	0,23	6,15	1,23	$\mu\text{g/l}$	134%
1,2-Dichloroethane	0,78	0,04	1,36	0,20	$\mu\text{g/l}$	174%
cis-1,2-Dichloroethene	0,54	0,03	0,55	0,08	$\mu\text{g/l}$	102%
trans-1,2-Dichloroethene	3,08	0,15	3,97	0,60	$\mu\text{g/l}$	129%



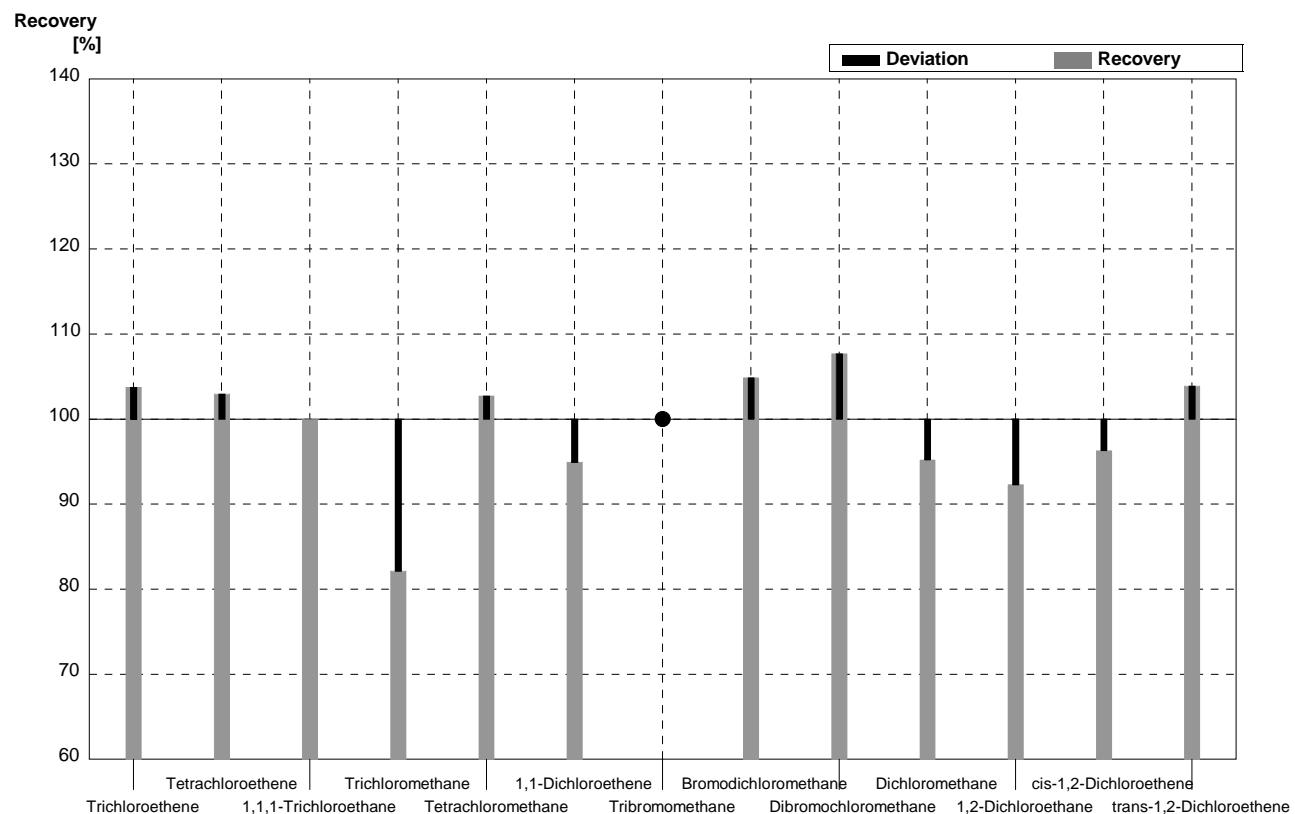
Sample C60B
Laboratory E

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Trichloroethene	0,37	0,02	0,46	0,07	µg/l	124%
Tetrachloroethene	<0,06		<0,1		µg/l	•
1,1,1-Trichloroethane	0,55	0,03	0,65	0,1	µg/l	118%
Trichloromethane	1,20	0,06	1,70	0,26	µg/l	142%
Tetrachloromethane	1,80	0,09	2,22	0,33	µg/l	123%
1,1-Dichloroethene	1,17	0,06	1,74	0,26	µg/l	149%
Tribromomethane	2,56	0,13	3,04	0,46	µg/l	119%
Bromodichloromethane	0,66	0,03	0,77	0,12	µg/l	117%
Dibromochloromethane	1,81	0,09	2,25	0,34	µg/l	124%
Dichloromethane	0,86	0,04	1,26	0,19	µg/l	147%
1,2-Dichloroethane	<0,4		<0,1		µg/l	•
cis-1,2-Dichloroethene	1,08	0,05	1,32	0,20	µg/l	122%
trans-1,2-Dichloroethene	0,42	0,02	0,47	0,07	µg/l	112%



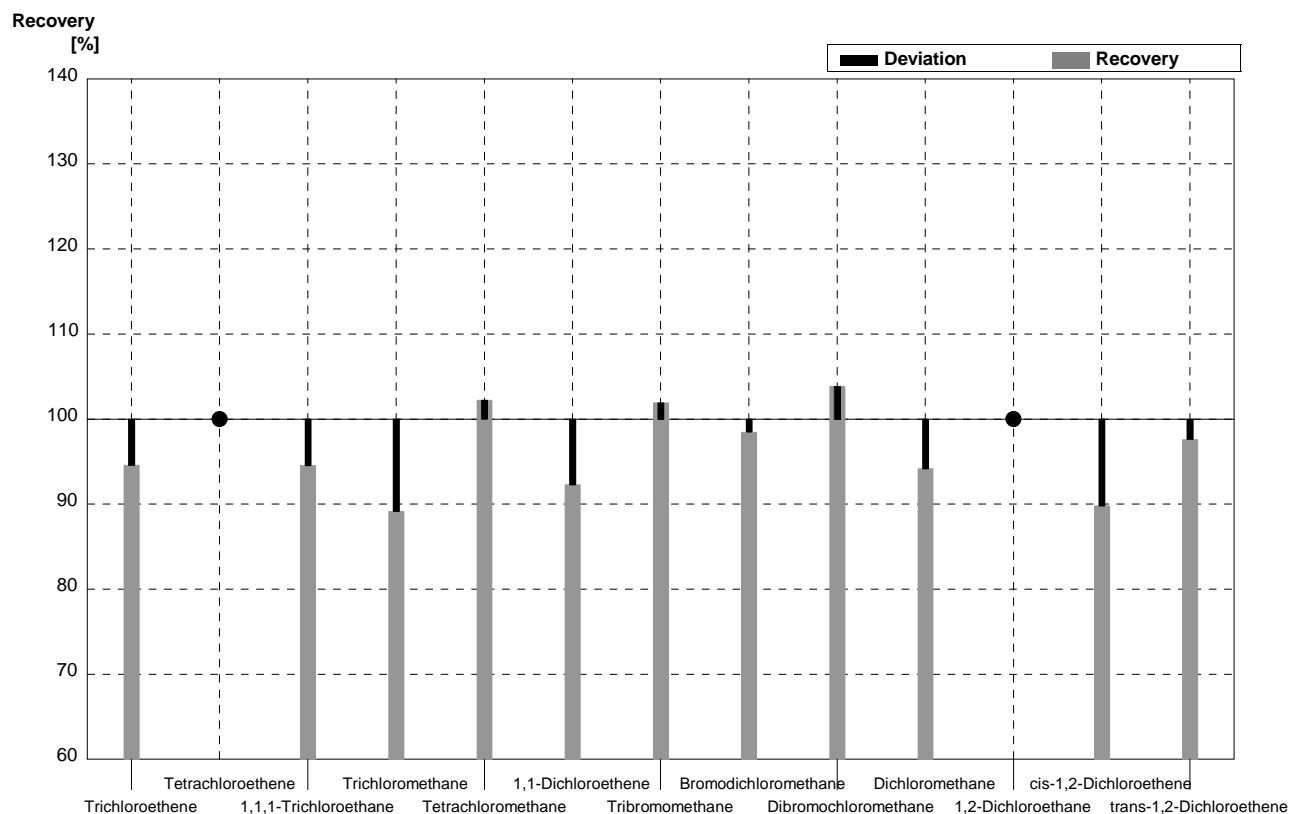
Sample C60A
Laboratory F

Parameter	Target value	$\pm U (k=2)$	Result	\pm	Unit	Recovery
Trichloroethene	2,14	0,11	2,22	0,10	$\mu\text{g/l}$	104%
Tetrachloroethene	1,35	0,07	1,39	0,08	$\mu\text{g/l}$	103%
1,1,1-Trichloroethane	0,25	0,01	0,25	0,01	$\mu\text{g/l}$	100%
Trichloromethane	0,28	0,01	0,23	0,01	$\mu\text{g/l}$	82%
Tetrachloromethane	0,73	0,04	0,75	0,10	$\mu\text{g/l}$	103%
1,1-Dichloroethene	1,77	0,09	1,68	0,07	$\mu\text{g/l}$	95%
Tribromomethane	<0,04		<0,05		$\mu\text{g/l}$	•
Bromodichloromethane	0,41	0,02	0,43	0,02	$\mu\text{g/l}$	105%
Dibromochloromethane	0,39	0,02	0,42	0,12	$\mu\text{g/l}$	108%
Dichloromethane	4,60	0,23	4,38	0,25	$\mu\text{g/l}$	95%
1,2-Dichloroethane	0,78	0,04	0,72	0,04	$\mu\text{g/l}$	92%
cis-1,2-Dichloroethene	0,54	0,03	0,52	0,13	$\mu\text{g/l}$	96%
trans-1,2-Dichloroethene	3,08	0,15	3,20	0,12	$\mu\text{g/l}$	104%



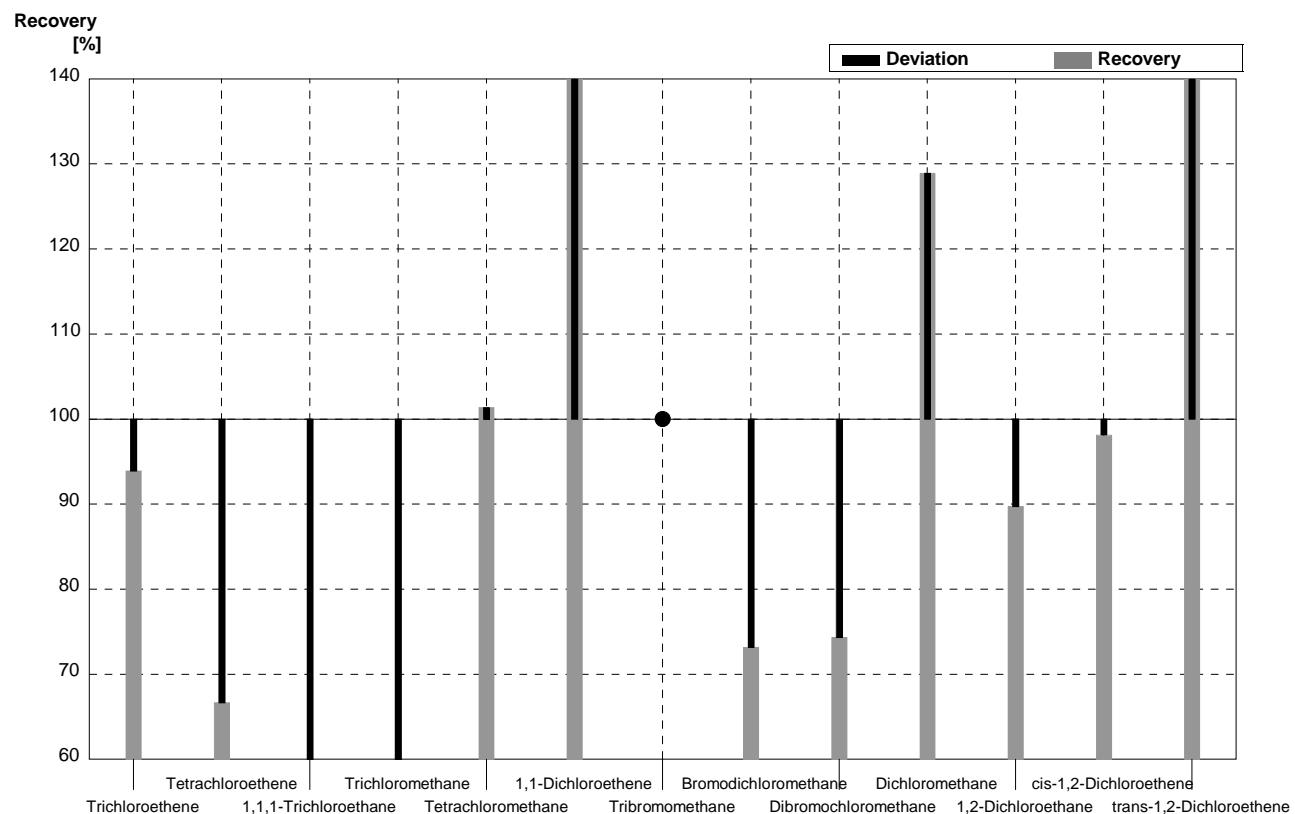
Sample C60B
Laboratory F

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Trichloroethene	0,37	0,02	0,35	0,01	µg/l	95%
Tetrachloroethene	<0,06		<0,05		µg/l	•
1,1,1-Trichloroethane	0,55	0,03	0,52	0,01	µg/l	95%
Trichloromethane	1,20	0,06	1,07	0,12	µg/l	89%
Tetrachloromethane	1,80	0,09	1,84	0,09	µg/l	102%
1,1-Dichloroethene	1,17	0,06	1,08	0,06	µg/l	92%
Tribromomethane	2,56	0,13	2,61	0,09	µg/l	102%
Bromodichloromethane	0,66	0,03	0,65	0,03	µg/l	98%
Dibromochloromethane	1,81	0,09	1,88	0,11	µg/l	104%
Dichloromethane	0,86	0,04	0,81	0,11	µg/l	94%
1,2-Dichloroethane	<0,4		<0,05		µg/l	•
cis-1,2-Dichloroethene	1,08	0,05	0,97	0,12	µg/l	90%
trans-1,2-Dichloroethene	0,42	0,02	0,41	0,03	µg/l	98%



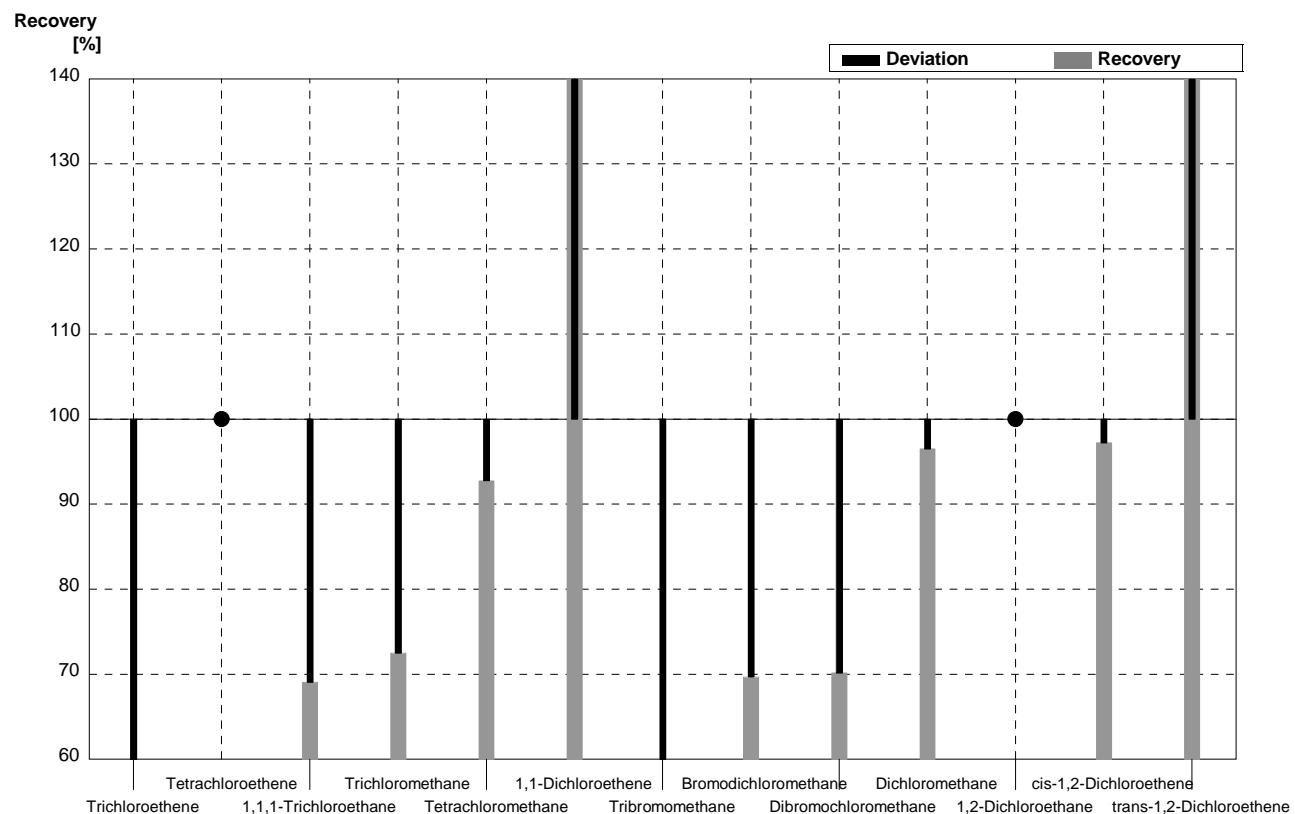
Sample C60A
Laboratory G

Parameter	Target value	$\pm U (k=2)$	Result	\pm	Unit	Recovery
Trichloroethene	2,14	0,11	2,01	0,19	$\mu\text{g/l}$	94%
Tetrachloroethene	1,35	0,07	0,90	0,07	$\mu\text{g/l}$	67%
1,1,1-Trichloroethane	0,25	0,01	0,15	0,02	$\mu\text{g/l}$	60%
Trichloromethane	0,28	0,01	0,12	0,02	$\mu\text{g/l}$	43%
Tetrachloromethane	0,73	0,04	0,74	0,07	$\mu\text{g/l}$	101%
1,1-Dichloroethene	1,77	0,09	3,89	0,32	$\mu\text{g/l}$	220%
Tribromomethane	<0,04		<0,1		$\mu\text{g/l}$	•
Bromodichloromethane	0,41	0,02	0,30	0,01	$\mu\text{g/l}$	73%
Dibromochloromethane	0,39	0,02	0,29	0,02	$\mu\text{g/l}$	74%
Dichloromethane	4,60	0,23	5,93	0,17	$\mu\text{g/l}$	129%
1,2-Dichloroethane	0,78	0,04	0,70	0,04	$\mu\text{g/l}$	90%
cis-1,2-Dichloroethene	0,54	0,03	0,53	0,02	$\mu\text{g/l}$	98%
trans-1,2-Dichloroethene	3,08	0,15	8,91	0,64	$\mu\text{g/l}$	289%



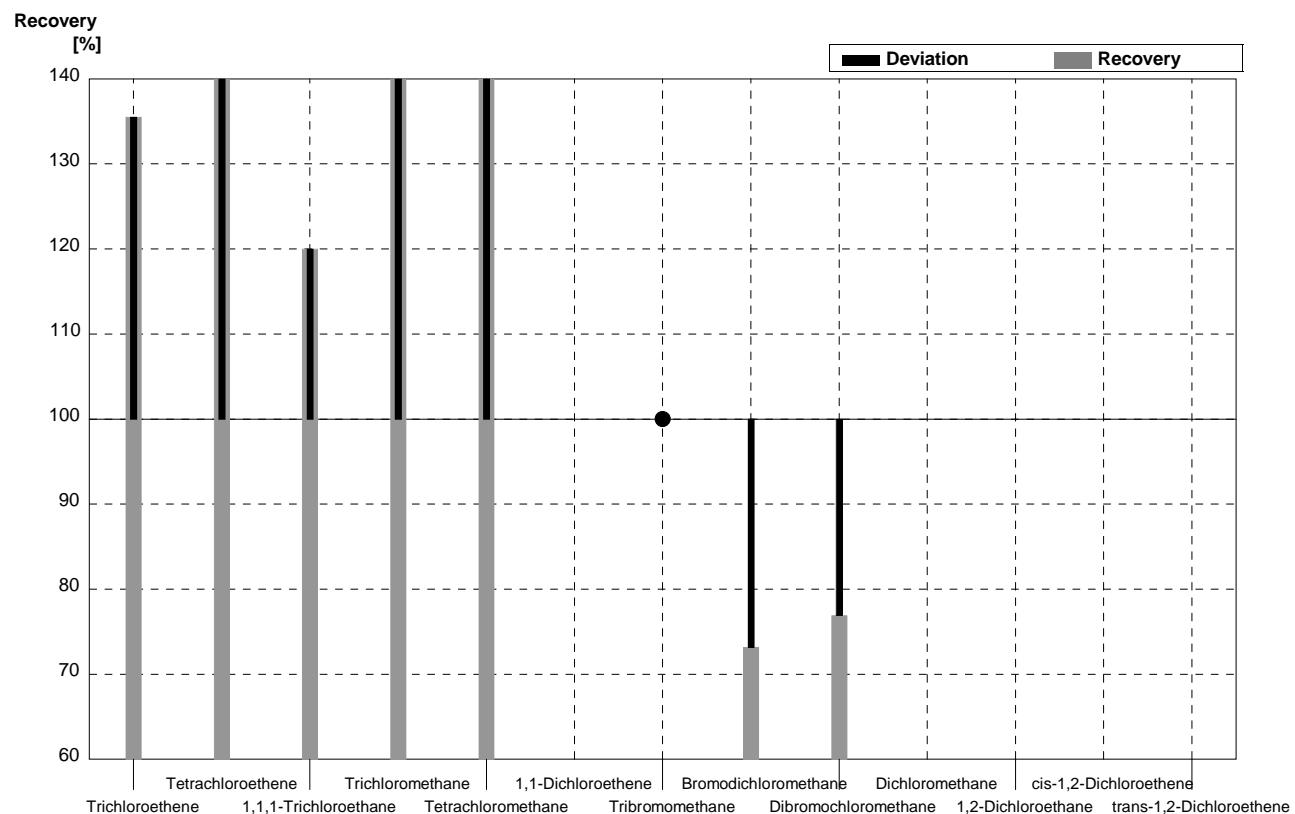
Sample C60B
Laboratory G

Parameter	Target value	$\pm U$ ($k=2$)	Result	\pm	Unit	Recovery
Trichloroethene	0,37	0,02	0,22	0,01	$\mu\text{g/l}$	59%
Tetrachloroethene	<0,06		<0,1		$\mu\text{g/l}$	•
1,1,1-Trichloroethane	0,55	0,03	0,38	0,01	$\mu\text{g/l}$	69%
Trichloromethane	1,20	0,06	0,87	0,05	$\mu\text{g/l}$	73%
Tetrachloromethane	1,80	0,09	1,67	0,06	$\mu\text{g/l}$	93%
1,1-Dichloroethene	1,17	0,06	2,26	0,09	$\mu\text{g/l}$	193%
Tribromomethane	2,56	0,13	1,34	0,06	$\mu\text{g/l}$	52%
Bromodichloromethane	0,66	0,03	0,46	0,02	$\mu\text{g/l}$	70%
Dibromochloromethane	1,81	0,09	1,27	0,08	$\mu\text{g/l}$	70%
Dichloromethane	0,86	0,04	0,83	0,04	$\mu\text{g/l}$	97%
1,2-Dichloroethane	<0,4		<0,1		$\mu\text{g/l}$	•
cis-1,2-Dichloroethene	1,08	0,05	1,05	0,05	$\mu\text{g/l}$	97%
trans-1,2-Dichloroethene	0,42	0,02	1,05	0,02	$\mu\text{g/l}$	250%



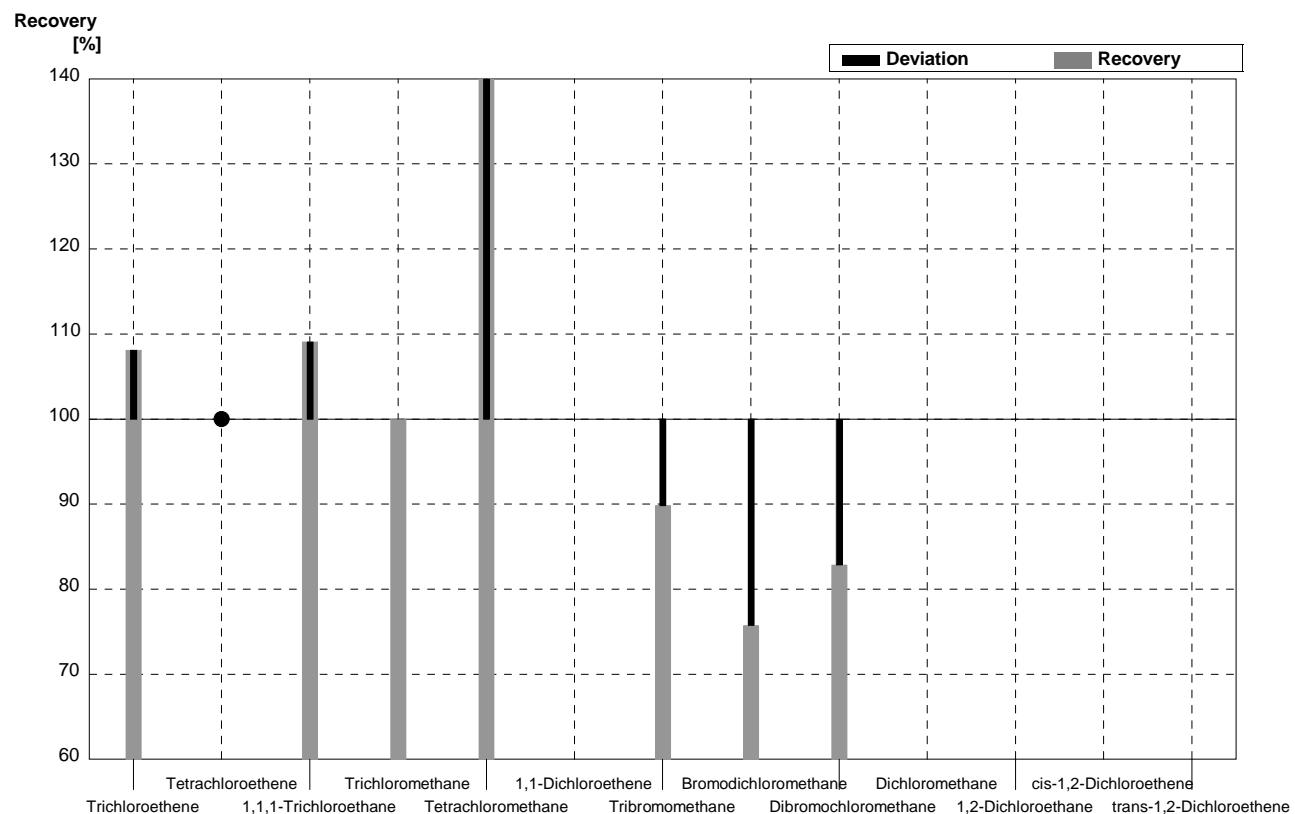
Sample C60A
Laboratory H

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Trichloroethene	2,14	0,11	2,9		µg/l	136%
Tetrachloroethene	1,35	0,07	2,5		µg/l	185%
1,1,1-Trichloroethane	0,25	0,01	0,3		µg/l	120%
Trichloromethane	0,28	0,01	0,4		µg/l	143%
Tetrachloromethane	0,73	0,04	1,3		µg/l	178%
1,1-Dichloroethene	1,77	0,09			µg/l	
Tribromomethane	<0,04		<0,2		µg/l	•
Bromodichloromethane	0,41	0,02	0,3		µg/l	73%
Dibromochloromethane	0,39	0,02	0,3		µg/l	77%
Dichloromethane	4,60	0,23			µg/l	
1,2-Dichloroethane	0,78	0,04			µg/l	
cis-1,2-Dichloroethene	0,54	0,03			µg/l	
trans-1,2-Dichloroethene	3,08	0,15			µg/l	



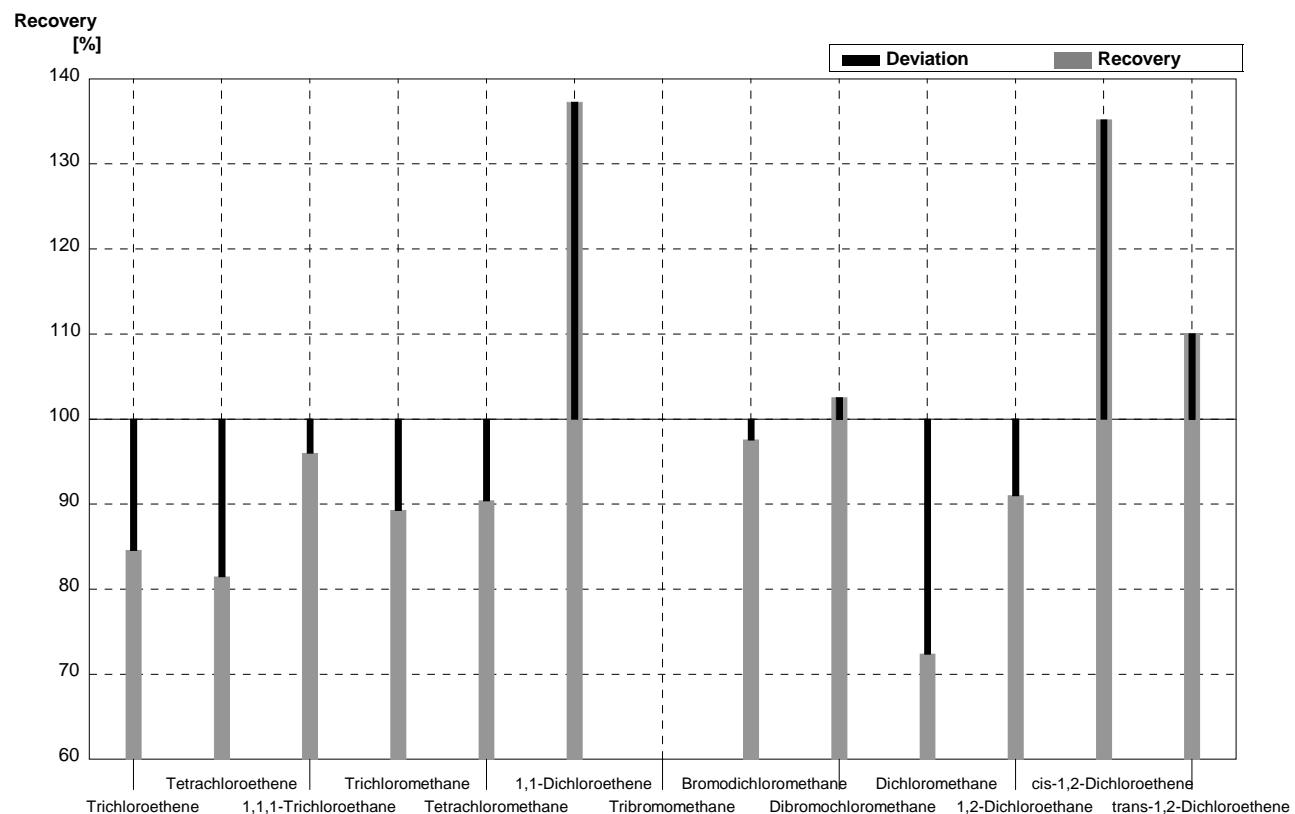
Sample C60B
Laboratory H

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Trichloroethene	0,37	0,02	0,4		µg/l	108%
Tetrachloroethene	<0,06		<0,1		µg/l	•
1,1,1-Trichloroethane	0,55	0,03	0,6		µg/l	109%
Trichloromethane	1,20	0,06	1,2		µg/l	100%
Tetrachloromethane	1,80	0,09	2,8		µg/l	156%
1,1-Dichloroethene	1,17	0,06			µg/l	
Tribromomethane	2,56	0,13	2,3		µg/l	90%
Bromodichloromethane	0,66	0,03	0,5		µg/l	76%
Dibromochloromethane	1,81	0,09	1,5		µg/l	83%
Dichloromethane	0,86	0,04			µg/l	
1,2-Dichloroethane	<0,4				µg/l	
cis-1,2-Dichloroethene	1,08	0,05			µg/l	
trans-1,2-Dichloroethene	0,42	0,02			µg/l	



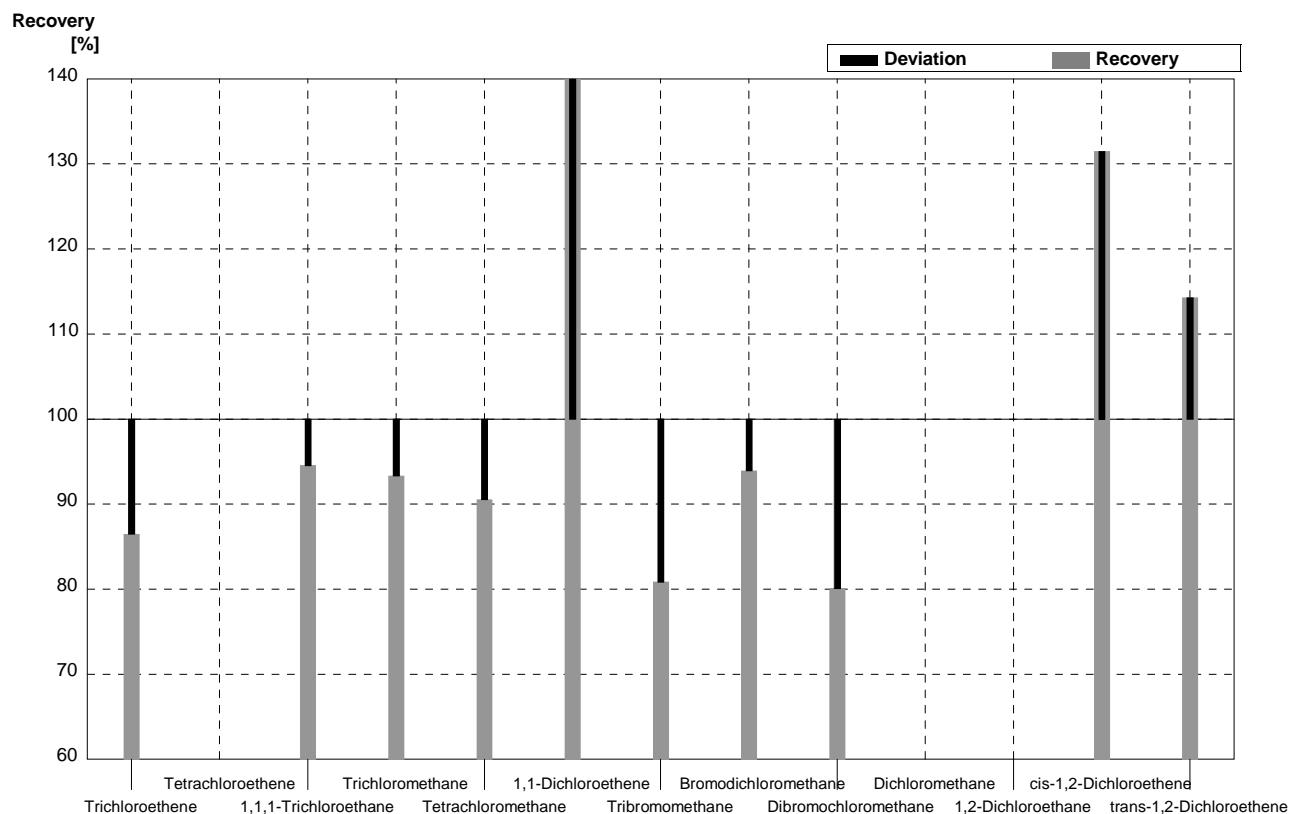
Sample C60A
Laboratory I

Parameter	Target value	$\pm U (k=2)$	Result	\pm	Unit	Recovery
Trichloroethene	2,14	0,11	1,81	0,49	$\mu\text{g/l}$	85%
Tetrachloroethene	1,35	0,07	1,10	0,22	$\mu\text{g/l}$	81%
1,1,1-Trichloroethane	0,25	0,01	0,24	0,05	$\mu\text{g/l}$	96%
Trichloromethane	0,28	0,01	0,25	0,05	$\mu\text{g/l}$	89%
Tetrachloromethane	0,73	0,04	0,66	0,13	$\mu\text{g/l}$	90%
1,1-Dichloroethene	1,77	0,09	2,43	0,49	$\mu\text{g/l}$	137%
Tribromomethane	<0,04		<ng		$\mu\text{g/l}$	
Bromodichloromethane	0,41	0,02	0,40	0,08	$\mu\text{g/l}$	98%
Dibromochloromethane	0,39	0,02	0,40	0,08	$\mu\text{g/l}$	103%
Dichloromethane	4,60	0,23	3,33	0,67	$\mu\text{g/l}$	72%
1,2-Dichloroethane	0,78	0,04	0,71	0,14	$\mu\text{g/l}$	91%
cis-1,2-Dichloroethene	0,54	0,03	0,73	0,15	$\mu\text{g/l}$	135%
trans-1,2-Dichloroethene	3,08	0,15	3,39	0,67	$\mu\text{g/l}$	110%



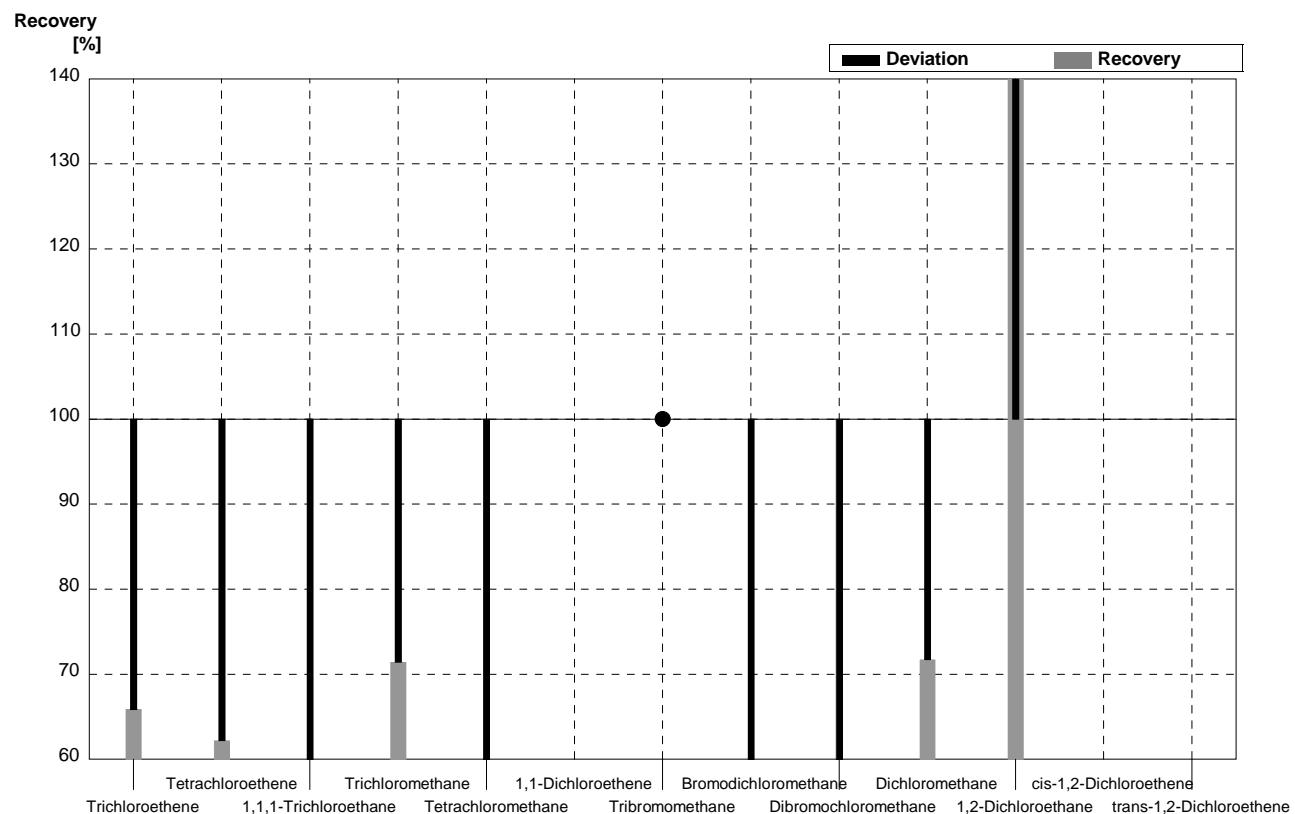
Sample C60B
Laboratory I

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Trichloroethene	0,37	0,02	0,32	0,06	µg/l	86%
Tetrachloroethene	<0,06		<ng		µg/l	
1,1,1-Trichloroethane	0,55	0,03	0,52	0,10	µg/l	95%
Trichloromethane	1,20	0,06	1,12	0,22	µg/l	93%
Tetrachloromethane	1,80	0,09	1,63	0,33	µg/l	91%
1,1-Dichloroethene	1,17	0,06	1,65	0,33	µg/l	141%
Tribromomethane	2,56	0,13	2,07	0,41	µg/l	81%
Bromodichloromethane	0,66	0,03	0,62	0,12	µg/l	94%
Dibromochloromethane	1,81	0,09	1,45	0,29	µg/l	80%
Dichloromethane	0,86	0,04	<ng		µg/l	
1,2-Dichloroethane	<0,4		<ng		µg/l	
cis-1,2-Dichloroethene	1,08	0,05	1,42	0,28	µg/l	131%
trans-1,2-Dichloroethene	0,42	0,02	0,48	0,10	µg/l	114%



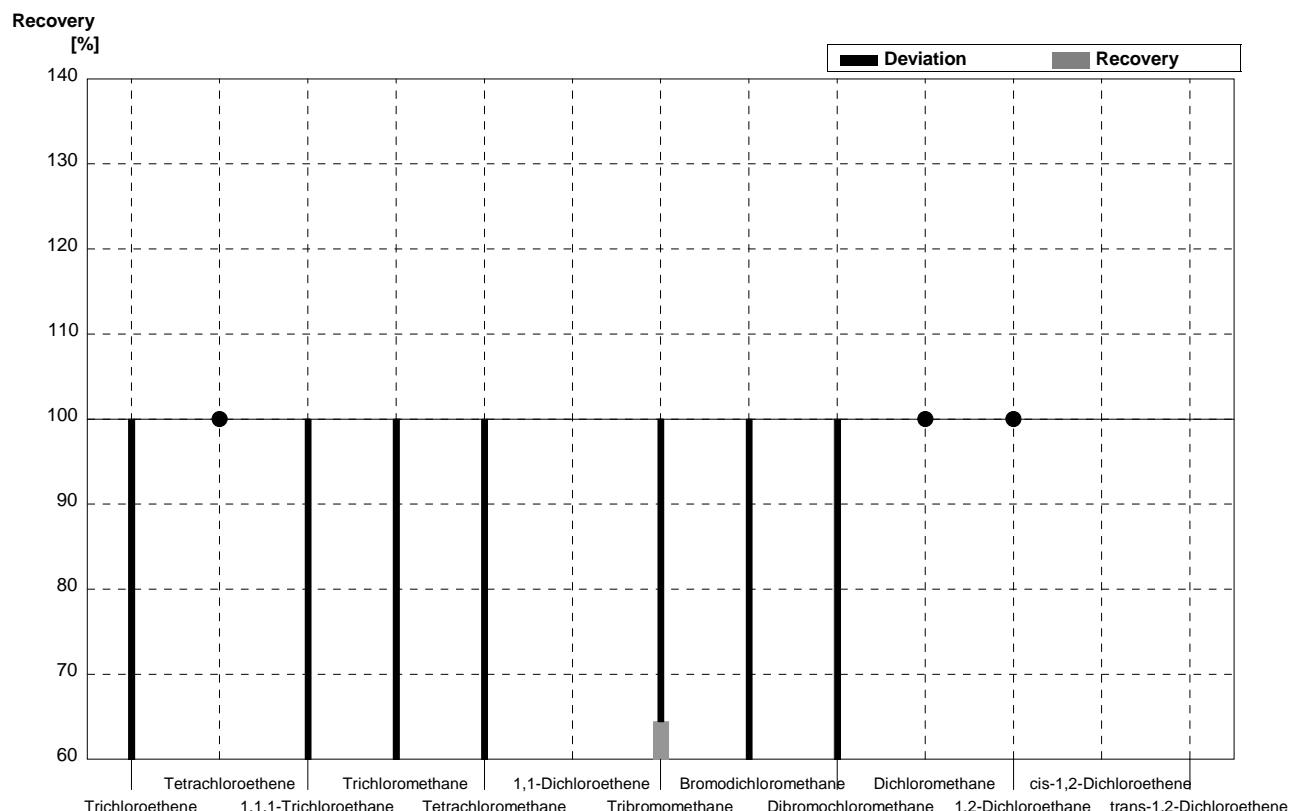
Sample C60A
Laboratory J

Parameter	Target value	$\pm U$ ($k=2$)	Result	\pm	Unit	Recovery
Trichloroethene	2,14	0,11	1,41	0,32	$\mu\text{g/l}$	66%
Tetrachloroethene	1,35	0,07	0,84	0,24	$\mu\text{g/l}$	62%
1,1,1-Trichloroethane	0,25	0,01	0,14	0,03	$\mu\text{g/l}$	56%
Trichloromethane	0,28	0,01	0,20	0,05	$\mu\text{g/l}$	71%
Tetrachloromethane	0,73	0,04	0,38	0,10	$\mu\text{g/l}$	52%
1,1-Dichloroethene	1,77	0,09			$\mu\text{g/l}$	
Tribromomethane	<0,04		<0,10		$\mu\text{g/l}$	•
Bromodichloromethane	0,41	0,02	0,22	0,05	$\mu\text{g/l}$	54%
Dibromochloromethane	0,39	0,02	0,22	0,06	$\mu\text{g/l}$	56%
Dichloromethane	4,60	0,23	3,3	0,90	$\mu\text{g/l}$	72%
1,2-Dichloroethane	0,78	0,04	1,2	0,43	$\mu\text{g/l}$	154%
cis-1,2-Dichloroethene	0,54	0,03			$\mu\text{g/l}$	
trans-1,2-Dichloroethene	3,08	0,15			$\mu\text{g/l}$	



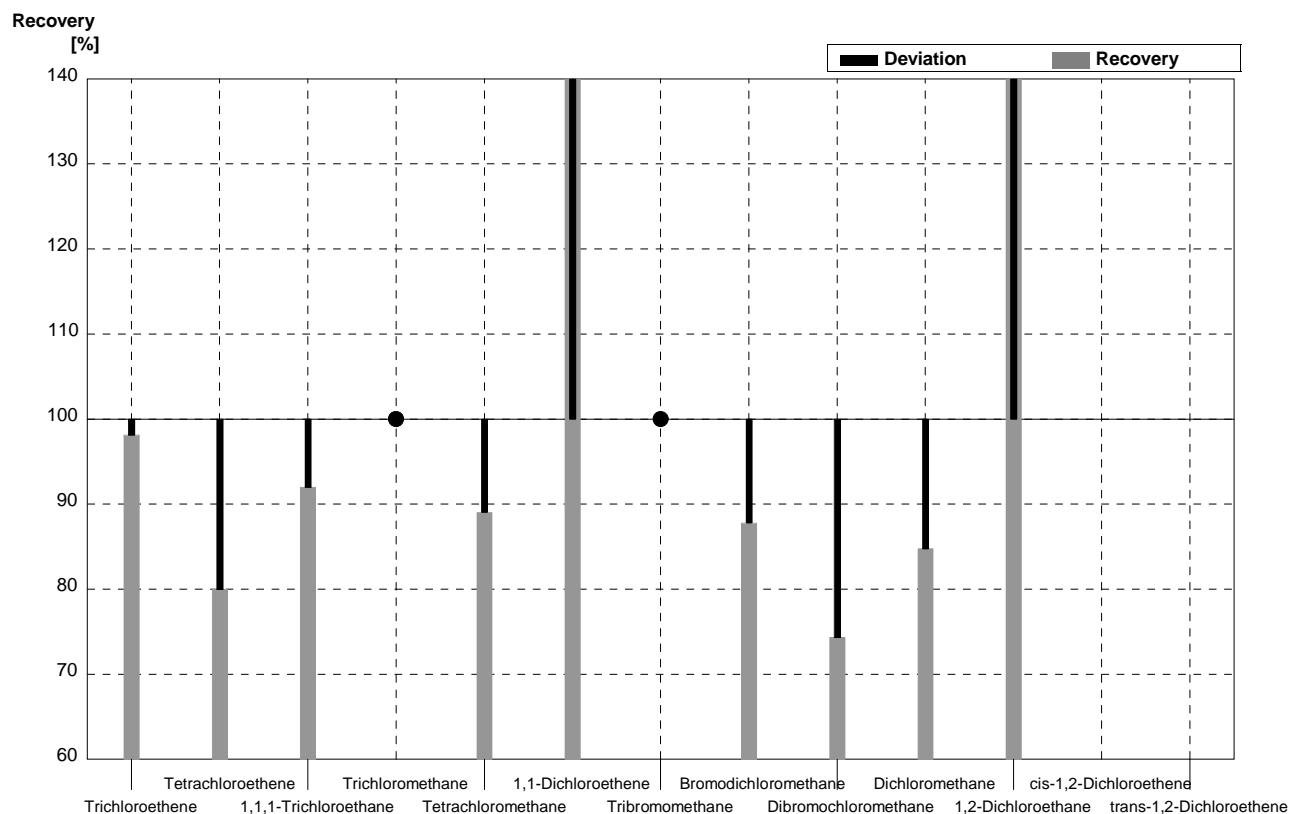
Sample C60B
Laboratory J

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Trichloroethene	0,37	0,02	0,19	0,04	µg/l	51%
Tetrachloroethene	<0,06		<0,10		µg/l	•
1,1,1-Trichloroethane	0,55	0,03	0,26	0,06	µg/l	47%
Trichloromethane	1,20	0,06	0,71	0,18	µg/l	59%
Tetrachloromethane	1,80	0,09	0,85	0,22	µg/l	47%
1,1-Dichloroethene	1,17	0,06			µg/l	
Tribromomethane	2,56	0,13	1,65	0,44	µg/l	64%
Bromodichloromethane	0,66	0,03	0,33	0,08	µg/l	50%
Dibromochloromethane	1,81	0,09	1,04	0,27	µg/l	57%
Dichloromethane	0,86	0,04	<2,0		µg/l	•
1,2-Dichloroethane	<0,4		<2,0		µg/l	•
cis-1,2-Dichloroethene	1,08	0,05			µg/l	
trans-1,2-Dichloroethene	0,42	0,02			µg/l	



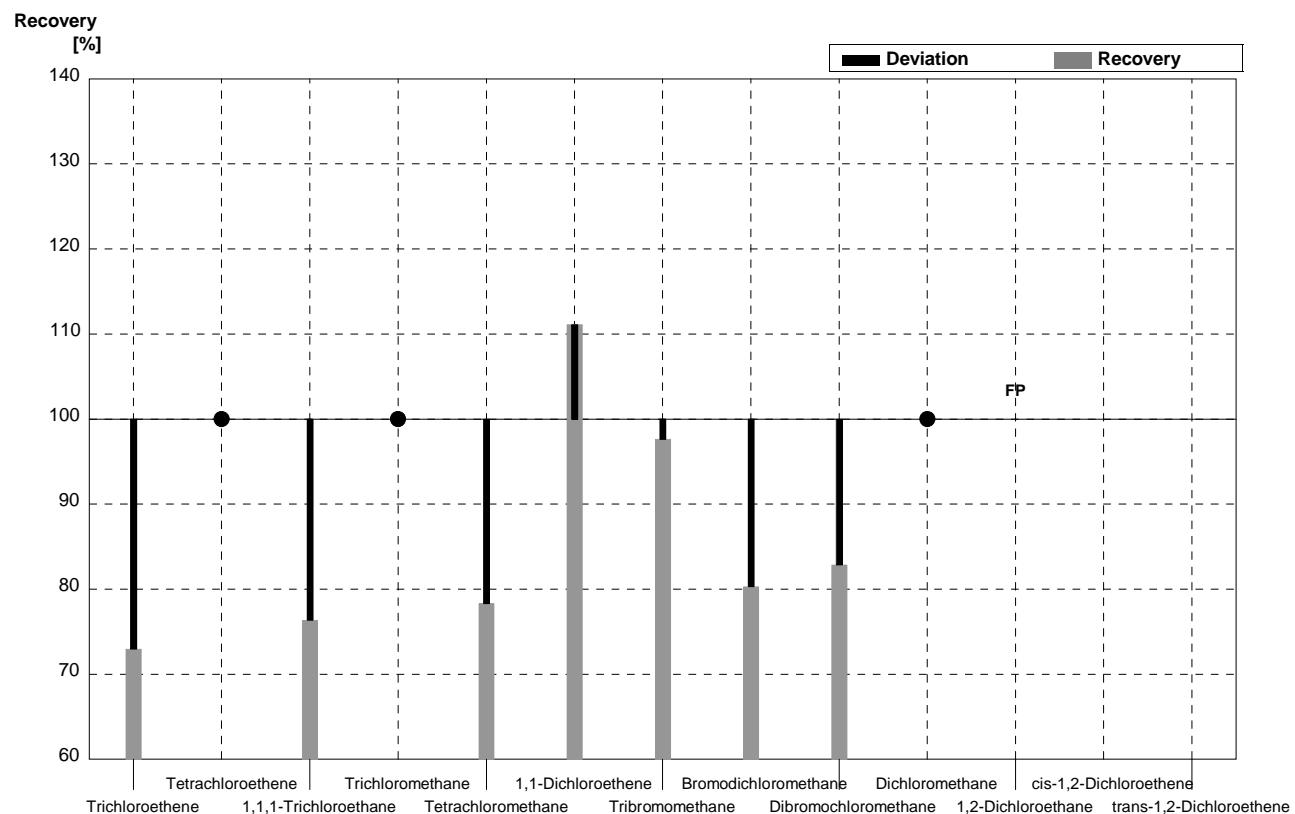
Sample C60A
Laboratory K

Parameter	Target value	$\pm U$ ($k=2$)	Result	\pm	Unit	Recovery
Trichloroethene	2,14	0,11	2,10	0,32	$\mu\text{g/l}$	98%
Tetrachloroethene	1,35	0,07	1,08	0,16	$\mu\text{g/l}$	80%
1,1,1-Trichloroethane	0,25	0,01	0,23	0,03	$\mu\text{g/l}$	92%
Trichloromethane	0,28	0,01	<1,3		$\mu\text{g/l}$	•
Tetrachloromethane	0,73	0,04	0,65	0,10	$\mu\text{g/l}$	89%
1,1-Dichloroethene	1,77	0,09	2,49	0,37	$\mu\text{g/l}$	141%
Tribromomethane	<0,04		<1,8		$\mu\text{g/l}$	•
Bromodichloromethane	0,41	0,02	0,36	0,05	$\mu\text{g/l}$	88%
Dibromochloromethane	0,39	0,02	0,29	0,04	$\mu\text{g/l}$	74%
Dichloromethane	4,60	0,23	3,90	0,59	$\mu\text{g/l}$	85%
1,2-Dichloroethane	0,78	0,04	1,15	0,17	$\mu\text{g/l}$	147%
cis-1,2-Dichloroethene	0,54	0,03			$\mu\text{g/l}$	
trans-1,2-Dichloroethene	3,08	0,15			$\mu\text{g/l}$	



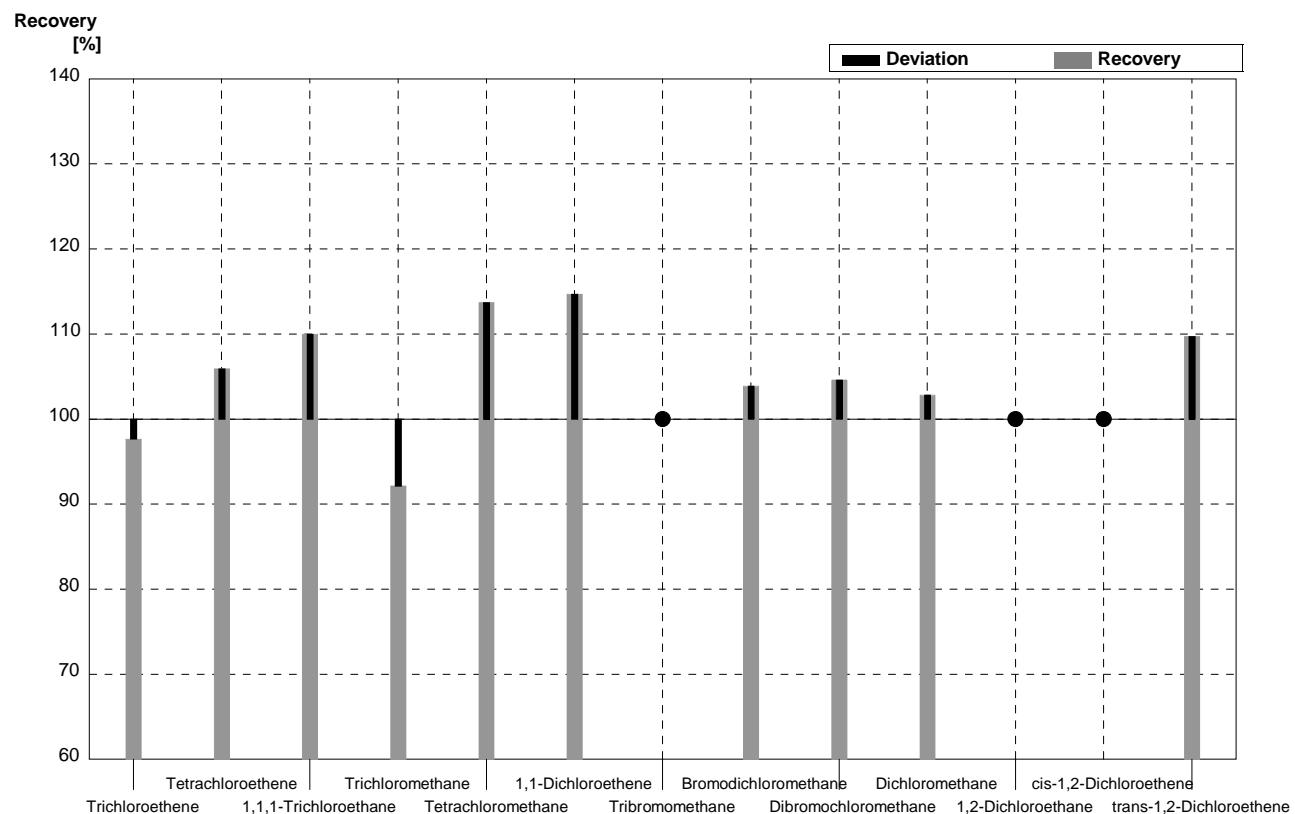
Sample C60B
Laboratory K

Parameter	Target value	$\pm U$ ($k=2$)	Result	\pm	Unit	Recovery
Trichloroethene	0,37	0,02	0,27	0,04	$\mu\text{g/l}$	73%
Tetrachloroethene	<0,06		<0,9		$\mu\text{g/l}$	•
1,1,1-Trichloroethane	0,55	0,03	0,42	0,06	$\mu\text{g/l}$	76%
Trichloromethane	1,20	0,06	<1,3		$\mu\text{g/l}$	•
Tetrachloromethane	1,80	0,09	1,41	0,21	$\mu\text{g/l}$	78%
1,1-Dichloroethene	1,17	0,06	1,30	0,20	$\mu\text{g/l}$	111%
Tribromomethane	2,56	0,13	2,50	0,38	$\mu\text{g/l}$	98%
Bromodichloromethane	0,66	0,03	0,53	0,08	$\mu\text{g/l}$	80%
Dibromochloromethane	1,81	0,09	1,50	0,23	$\mu\text{g/l}$	83%
Dichloromethane	0,86	0,04	<1,4		$\mu\text{g/l}$	•
1,2-Dichloroethane	<0,4		1,94	0,29	$\mu\text{g/l}$	FP
cis-1,2-Dichloroethene	1,08	0,05			$\mu\text{g/l}$	
trans-1,2-Dichloroethene	0,42	0,02			$\mu\text{g/l}$	



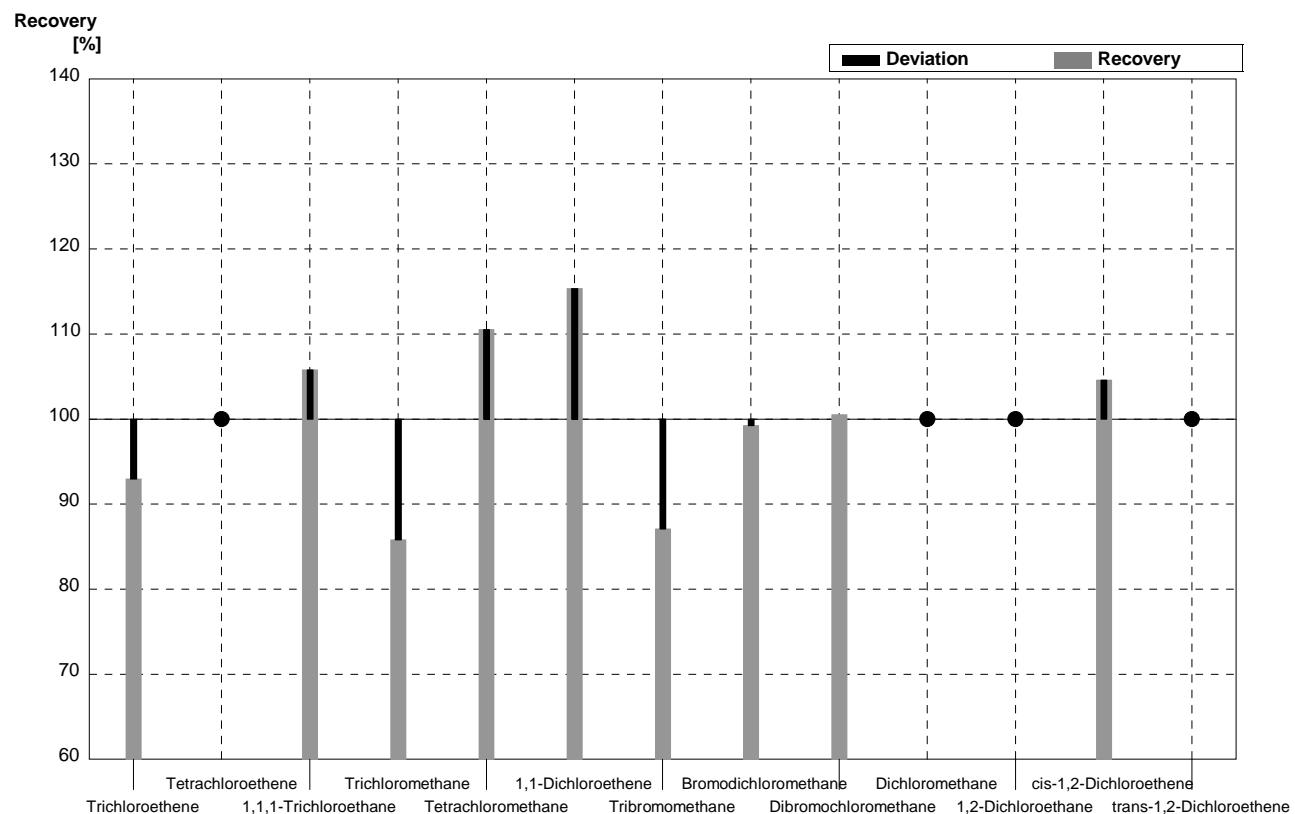
Sample C60A
Laboratory L

Parameter	Target value	$\pm U$ ($k=2$)	Result	\pm	Unit	Recovery
Trichloroethene	2,14	0,11	2,09	0,42	$\mu\text{g/l}$	98%
Tetrachloroethene	1,35	0,07	1,43	0,29	$\mu\text{g/l}$	106%
1,1,1-Trichloroethane	0,25	0,01	0,275	0,055	$\mu\text{g/l}$	110%
Trichloromethane	0,28	0,01	0,258	0,052	$\mu\text{g/l}$	92%
Tetrachloromethane	0,73	0,04	0,830	0,166	$\mu\text{g/l}$	114%
1,1-Dichloroethene	1,77	0,09	2,03	0,41	$\mu\text{g/l}$	115%
Tribromomethane	<0,04		<0,1		$\mu\text{g/l}$	•
Bromodichloromethane	0,41	0,02	0,426	0,085	$\mu\text{g/l}$	104%
Dibromochloromethane	0,39	0,02	0,408	0,082	$\mu\text{g/l}$	105%
Dichloromethane	4,60	0,23	4,73	0,95	$\mu\text{g/l}$	103%
1,2-Dichloroethane	0,78	0,04	<1,00		$\mu\text{g/l}$	•
cis-1,2-Dichloroethene	0,54	0,03	<1,00		$\mu\text{g/l}$	•
trans-1,2-Dichloroethene	3,08	0,15	3,38	0,68	$\mu\text{g/l}$	110%



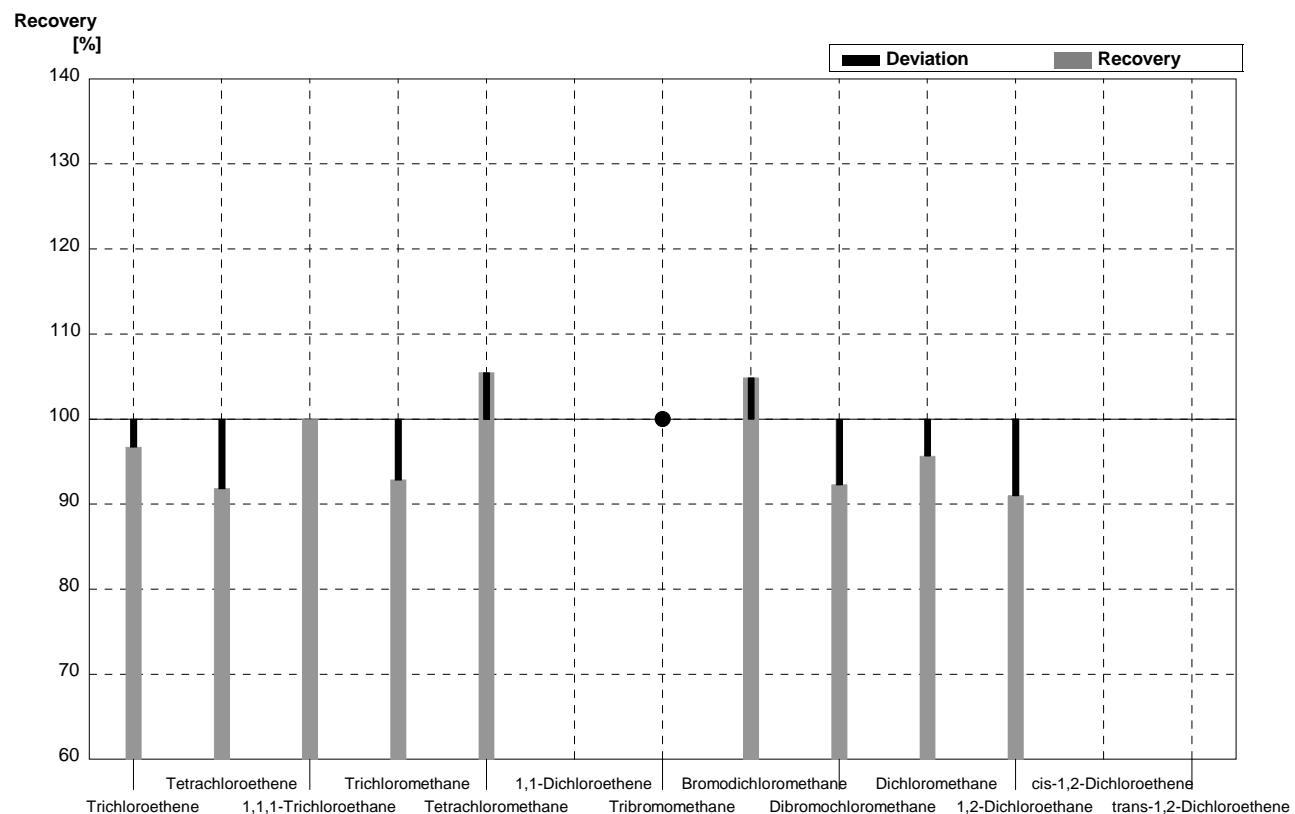
Sample C60B
Laboratory L

Parameter	Target value	$\pm U$ ($k=2$)	Result	\pm	Unit	Recovery
Trichloroethene	0,37	0,02	0,344	0,069	$\mu\text{g/l}$	93%
Tetrachloroethene	<0,06		<0,1		$\mu\text{g/l}$	•
1,1,1-Trichloroethane	0,55	0,03	0,582	0,116	$\mu\text{g/l}$	106%
Trichloromethane	1,20	0,06	1,03	0,21	$\mu\text{g/l}$	86%
Tetrachloromethane	1,80	0,09	1,99	0,40	$\mu\text{g/l}$	111%
1,1-Dichloroethene	1,17	0,06	1,35	0,27	$\mu\text{g/l}$	115%
Tribromomethane	2,56	0,13	2,23	0,45	$\mu\text{g/l}$	87%
Bromodichloromethane	0,66	0,03	0,655	0,131	$\mu\text{g/l}$	99%
Dibromochloromethane	1,81	0,09	1,82	0,36	$\mu\text{g/l}$	101%
Dichloromethane	0,86	0,04	<1,00		$\mu\text{g/l}$	•
1,2-Dichloroethane	<0,4		<1,00		$\mu\text{g/l}$	•
cis-1,2-Dichloroethene	1,08	0,05	1,13	0,23	$\mu\text{g/l}$	105%
trans-1,2-Dichloroethene	0,42	0,02	<1,00		$\mu\text{g/l}$	•



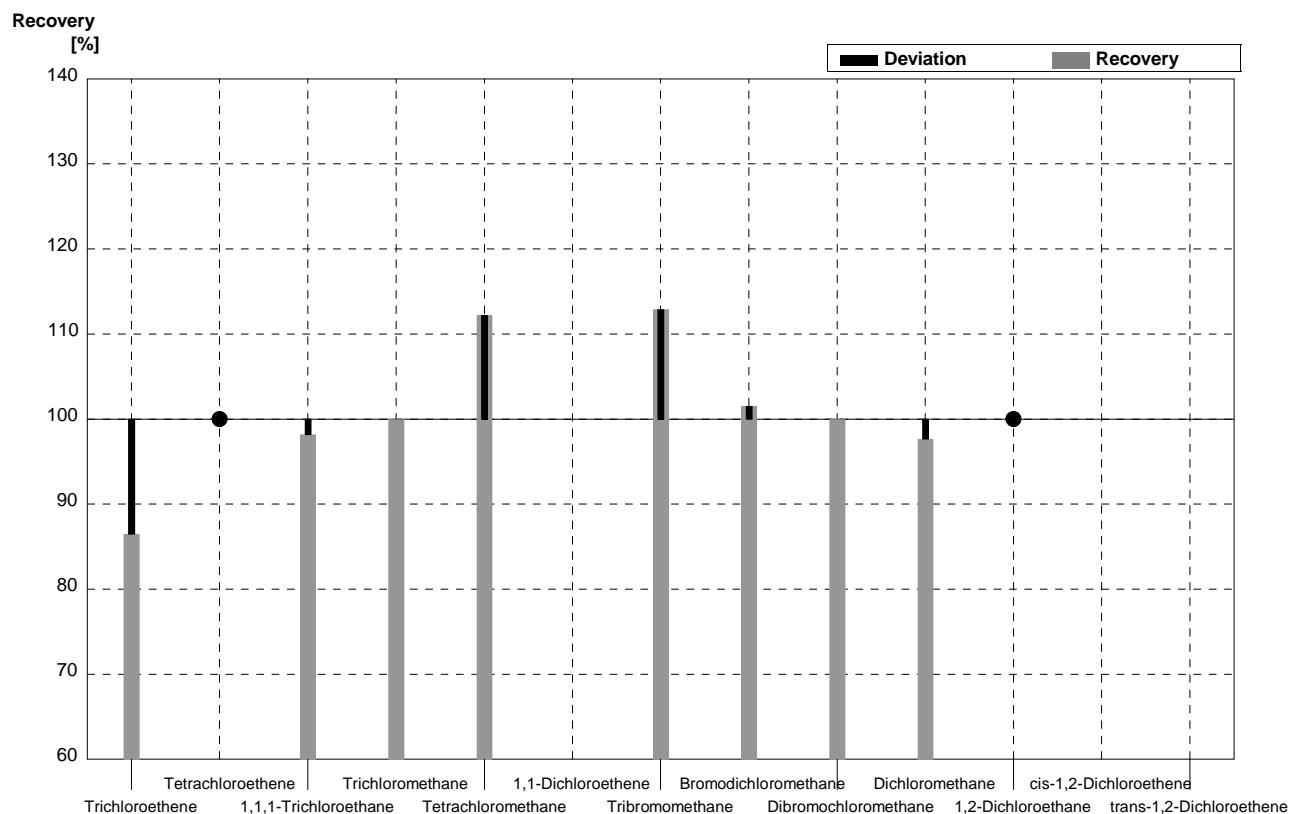
Sample C60A
Laboratory M

Parameter	Target value	$\pm U$ ($k=2$)	Result	\pm	Unit	Recovery
Trichloroethene	2,14	0,11	2,07	0,30	$\mu\text{g/l}$	97%
Tetrachloroethene	1,35	0,07	1,24	0,20	$\mu\text{g/l}$	92%
1,1,1-Trichloroethane	0,25	0,01	0,25	0,10	$\mu\text{g/l}$	100%
Trichloromethane	0,28	0,01	0,26	0,10	$\mu\text{g/l}$	93%
Tetrachloromethane	0,73	0,04	0,77	0,10	$\mu\text{g/l}$	105%
1,1-Dichloroethene	1,77	0,09	n.a.		$\mu\text{g/l}$	
Tribromomethane	<0,04		<0,10		$\mu\text{g/l}$	•
Bromodichloromethane	0,41	0,02	0,43	0,10	$\mu\text{g/l}$	105%
Dibromochloromethane	0,39	0,02	0,36	0,10	$\mu\text{g/l}$	92%
Dichloromethane	4,60	0,23	4,4	0,3	$\mu\text{g/l}$	96%
1,2-Dichloroethane	0,78	0,04	0,71	0,10	$\mu\text{g/l}$	91%
cis-1,2-Dichloroethene	0,54	0,03	n.a.		$\mu\text{g/l}$	
trans-1,2-Dichloroethene	3,08	0,15	n.a.		$\mu\text{g/l}$	



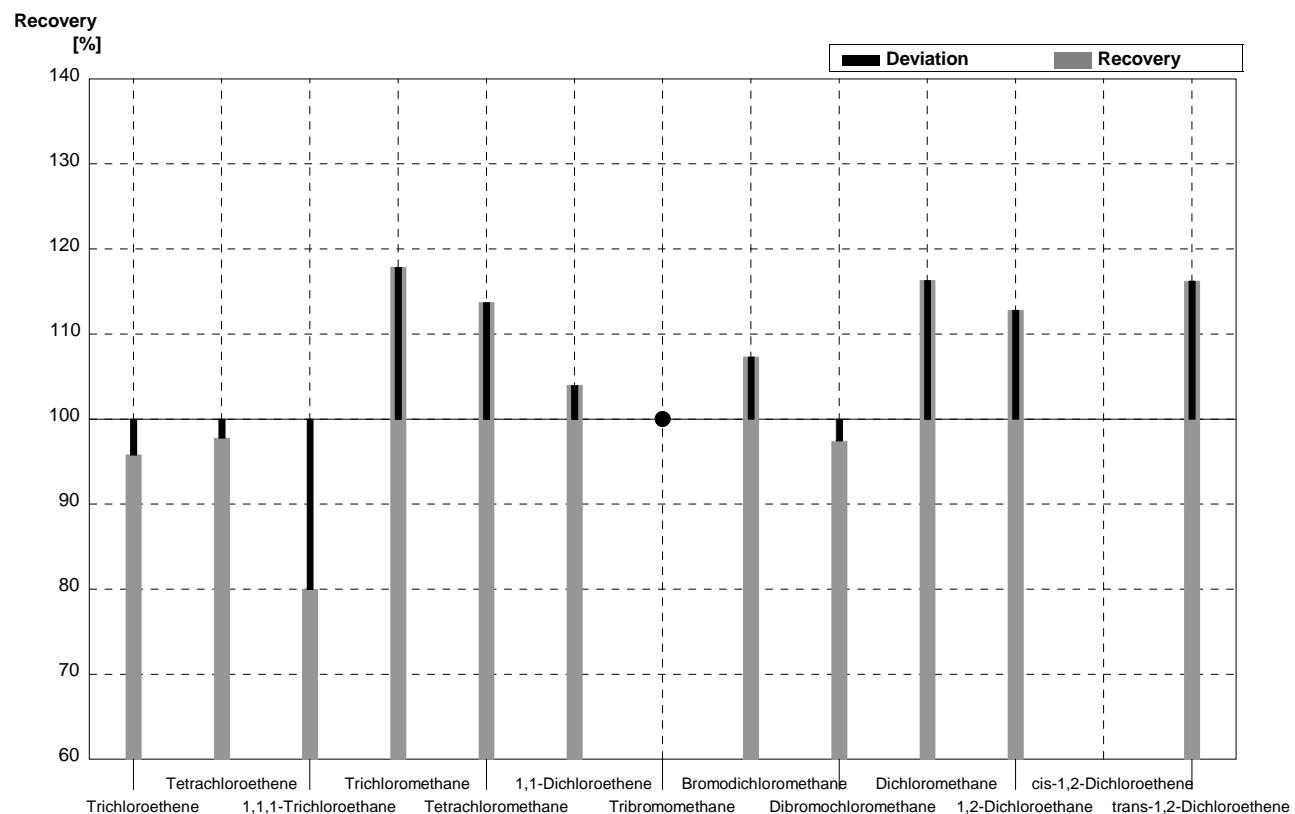
Sample C60B
Laboratory M

Parameter	Target value	$\pm U$ ($k=2$)	Result	\pm	Unit	Recovery
Trichloroethene	0,37	0,02	0,32	0,10	$\mu\text{g/l}$	86%
Tetrachloroethene	<0,06		<0,10		$\mu\text{g/l}$	•
1,1,1-Trichloroethane	0,55	0,03	0,54	0,10	$\mu\text{g/l}$	98%
Trichloromethane	1,20	0,06	1,20	0,20	$\mu\text{g/l}$	100%
Tetrachloromethane	1,80	0,09	2,02	0,30	$\mu\text{g/l}$	112%
1,1-Dichloroethene	1,17	0,06	n.a.		$\mu\text{g/l}$	
Tribromomethane	2,56	0,13	2,89	0,30	$\mu\text{g/l}$	113%
Bromodichloromethane	0,66	0,03	0,67	0,10	$\mu\text{g/l}$	102%
Dibromochloromethane	1,81	0,09	1,81	0,20	$\mu\text{g/l}$	100%
Dichloromethane	0,86	0,04	0,84	0,10	$\mu\text{g/l}$	98%
1,2-Dichloroethane	<0,4		<0,30		$\mu\text{g/l}$	•
cis-1,2-Dichloroethene	1,08	0,05	n.a.		$\mu\text{g/l}$	
trans-1,2-Dichloroethene	0,42	0,02	n.a.		$\mu\text{g/l}$	



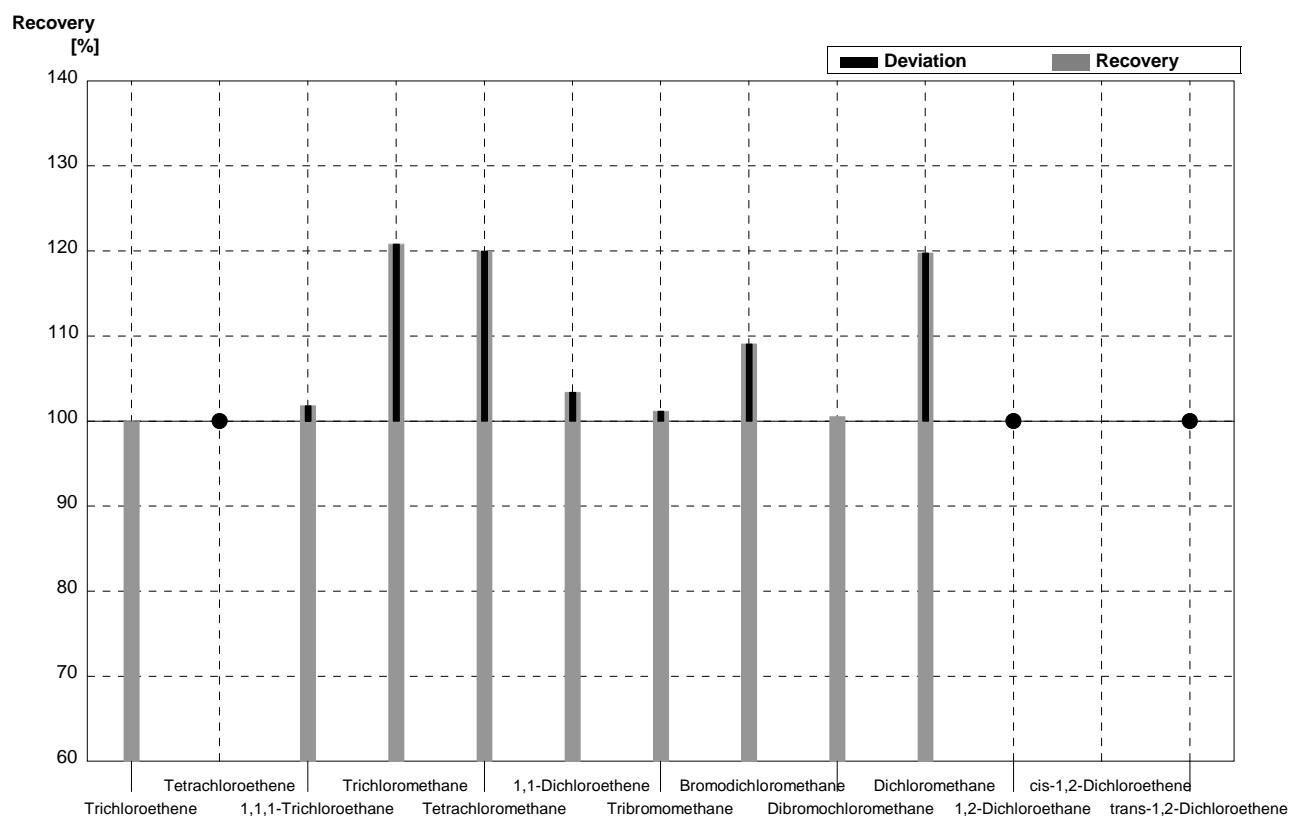
Sample C60A
Laboratory N

Parameter	Target value	$\pm U (k=2)$	Result	\pm	Unit	Recovery
Trichloroethene	2,14	0,11	2,05	0,44	$\mu\text{g/l}$	96%
Tetrachloroethene	1,35	0,07	1,32	0,30	$\mu\text{g/l}$	98%
1,1,1-Trichloroethane	0,25	0,01	0,20	0,10	$\mu\text{g/l}$	80%
Trichloromethane	0,28	0,01	0,33	0,10	$\mu\text{g/l}$	118%
Tetrachloromethane	0,73	0,04	0,83	0,10	$\mu\text{g/l}$	114%
1,1-Dichloroethene	1,77	0,09	1,84	0,10	$\mu\text{g/l}$	104%
Tribromomethane	<0,04		<0,2		$\mu\text{g/l}$	•
Bromodichloromethane	0,41	0,02	0,44	0,10	$\mu\text{g/l}$	107%
Dibromochloromethane	0,39	0,02	0,38	0,10	$\mu\text{g/l}$	97%
Dichloromethane	4,60	0,23	5,35	0,73	$\mu\text{g/l}$	116%
1,2-Dichloroethane	0,78	0,04	0,88	0,16	$\mu\text{g/l}$	113%
cis-1,2-Dichloroethene	0,54	0,03			$\mu\text{g/l}$	
trans-1,2-Dichloroethene	3,08	0,15	3,58	0,90	$\mu\text{g/l}$	116%



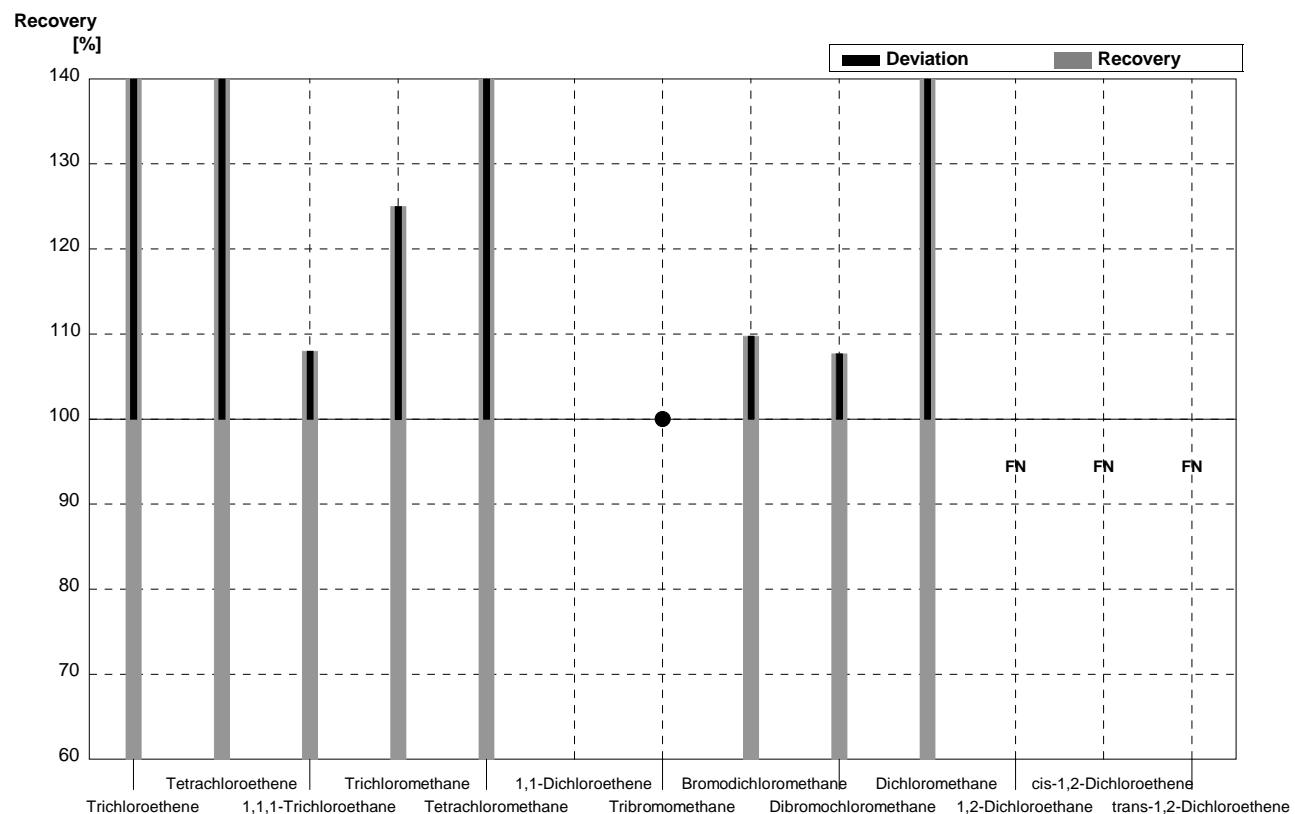
Sample C60B
Laboratory N

Parameter	Target value	$\pm U (k=2)$	Result	\pm	Unit	Recovery
Trichloroethene	0,37	0,02	0,37	0,10	$\mu\text{g/l}$	100%
Tetrachloroethene	<0,06		<0,2		$\mu\text{g/l}$	•
1,1,1-Trichloroethane	0,55	0,03	0,56	0,10	$\mu\text{g/l}$	102%
Trichloromethane	1,20	0,06	1,45	0,15	$\mu\text{g/l}$	121%
Tetrachloromethane	1,80	0,09	2,16	0,24	$\mu\text{g/l}$	120%
1,1-Dichloroethene	1,17	0,06	1,21	0,10	$\mu\text{g/l}$	103%
Tribromomethane	2,56	0,13	2,59	0,11	$\mu\text{g/l}$	101%
Bromodichloromethane	0,66	0,03	0,72	0,10	$\mu\text{g/l}$	109%
Dibromochloromethane	1,81	0,09	1,82	0,13	$\mu\text{g/l}$	101%
Dichloromethane	0,86	0,04	1,03	0,10	$\mu\text{g/l}$	120%
1,2-Dichloroethane	<0,4		<0,4		$\mu\text{g/l}$	•
cis-1,2-Dichloroethene	1,08	0,05			$\mu\text{g/l}$	
trans-1,2-Dichloroethene	0,42	0,02	<1,0		$\mu\text{g/l}$	•



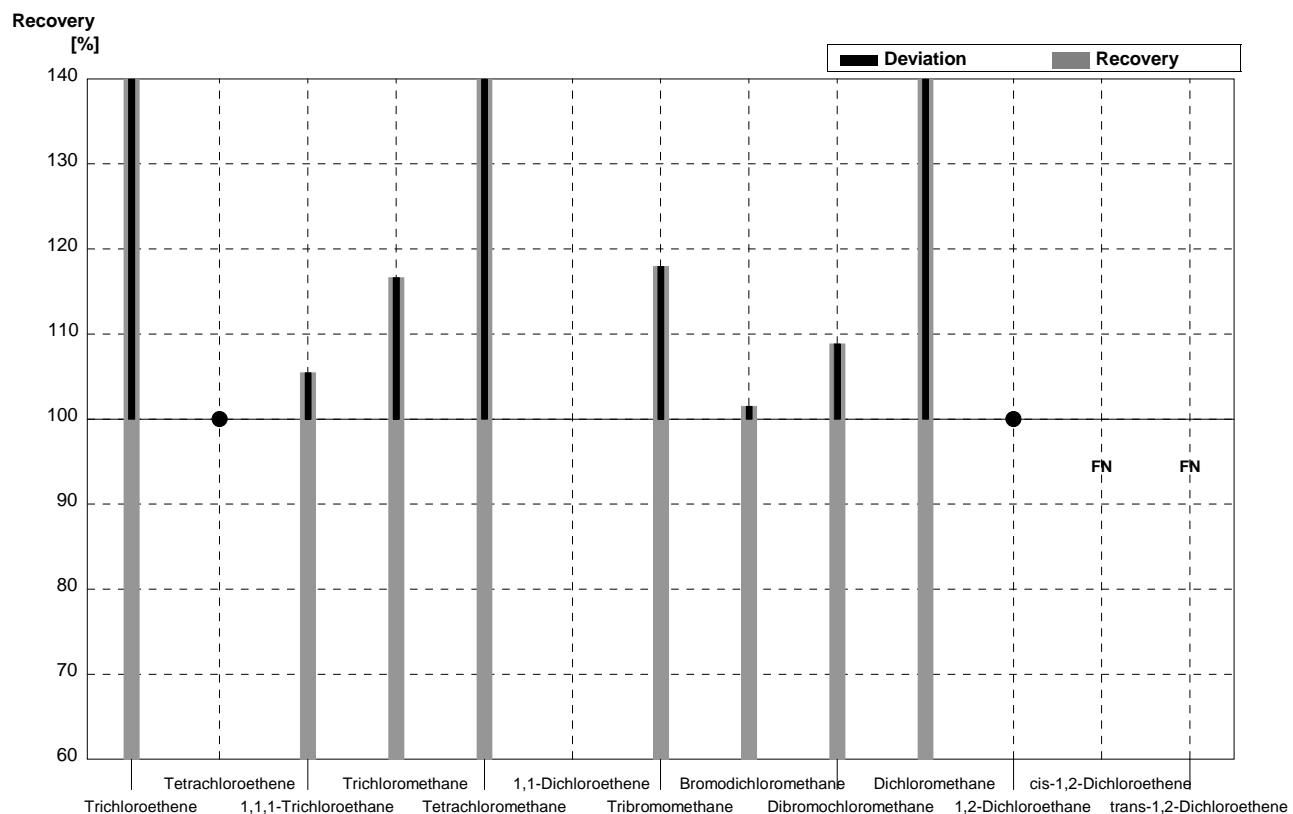
Sample C60A
Laboratory O

Parameter	Target value	$\pm U$ ($k=2$)	Result	\pm	Unit	Recovery
Trichloroethene	2,14	0,11	9,22	2,3	$\mu\text{g/l}$	431%
Tetrachloroethene	1,35	0,07	5,02	1,3	$\mu\text{g/l}$	372%
1,1,1-Trichloroethane	0,25	0,01	0,27	0,07	$\mu\text{g/l}$	108%
Trichloromethane	0,28	0,01	0,35	0,09	$\mu\text{g/l}$	125%
Tetrachloromethane	0,73	0,04	2,93	0,73	$\mu\text{g/l}$	401%
1,1-Dichloroethene	1,77	0,09	n,a		$\mu\text{g/l}$	
Tribromomethane	<0,04		<0,1	0,05	$\mu\text{g/l}$	•
Bromodichloromethane	0,41	0,02	0,45	0,11	$\mu\text{g/l}$	110%
Dibromochloromethane	0,39	0,02	0,42	0,11	$\mu\text{g/l}$	108%
Dichloromethane	4,60	0,23	20,41	5,1	$\mu\text{g/l}$	444%
1,2-Dichloroethane	0,78	0,04	<0,1	0,05	$\mu\text{g/l}$	FN
cis-1,2-Dichloroethene	0,54	0,03	<0,1	0,05	$\mu\text{g/l}$	FN
trans-1,2-Dichloroethene	3,08	0,15	<0,1	0,05	$\mu\text{g/l}$	FN



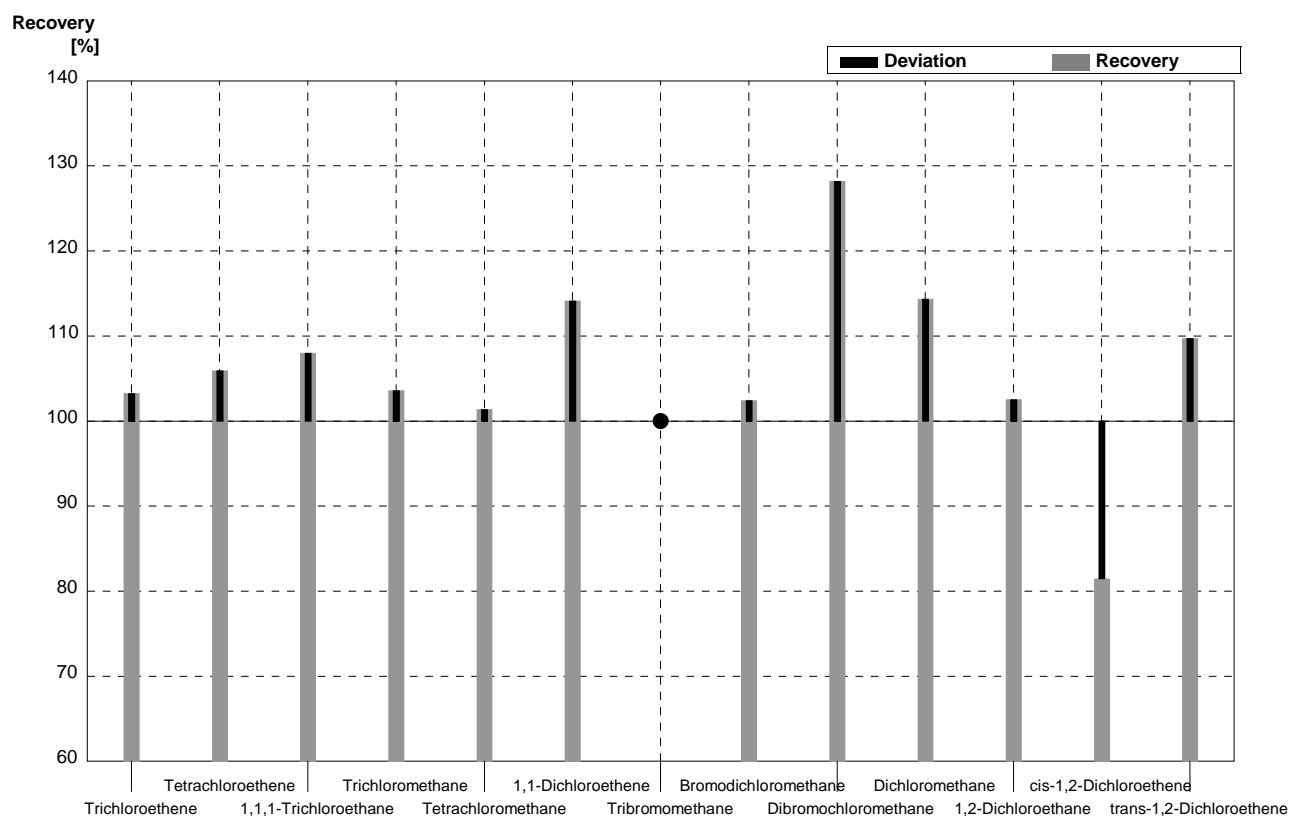
Sample C60B
Laboratory O

Parameter	Target value	$\pm U$ ($k=2$)	Result	\pm	Unit	Recovery
Trichloroethene	0,37	0,02	1,62	0,41	$\mu\text{g/l}$	438%
Tetrachloroethene	<0,06		<0,1	0,05	$\mu\text{g/l}$	•
1,1,1-Trichloroethane	0,55	0,03	0,58	0,15	$\mu\text{g/l}$	105%
Trichloromethane	1,20	0,06	1,4	0,35	$\mu\text{g/l}$	117%
Tetrachloromethane	1,80	0,09	4,12	1,03	$\mu\text{g/l}$	229%
1,1-Dichloroethene	1,17	0,06	n,a		$\mu\text{g/l}$	
Tribromomethane	2,56	0,13	3,02	0,76	$\mu\text{g/l}$	118%
Bromodichloromethane	0,66	0,03	0,67	0,17	$\mu\text{g/l}$	102%
Dibromochloromethane	1,81	0,09	1,97	0,49	$\mu\text{g/l}$	109%
Dichloromethane	0,86	0,04	29,76	7,44	$\mu\text{g/l}$	3460%
1,2-Dichloroethane	<0,4		<0,1	0,05	$\mu\text{g/l}$	•
cis-1,2-Dichloroethene	1,08	0,05	<0,1	0,05	$\mu\text{g/l}$	FN
trans-1,2-Dichloroethene	0,42	0,02	<0,1	0,05	$\mu\text{g/l}$	FN



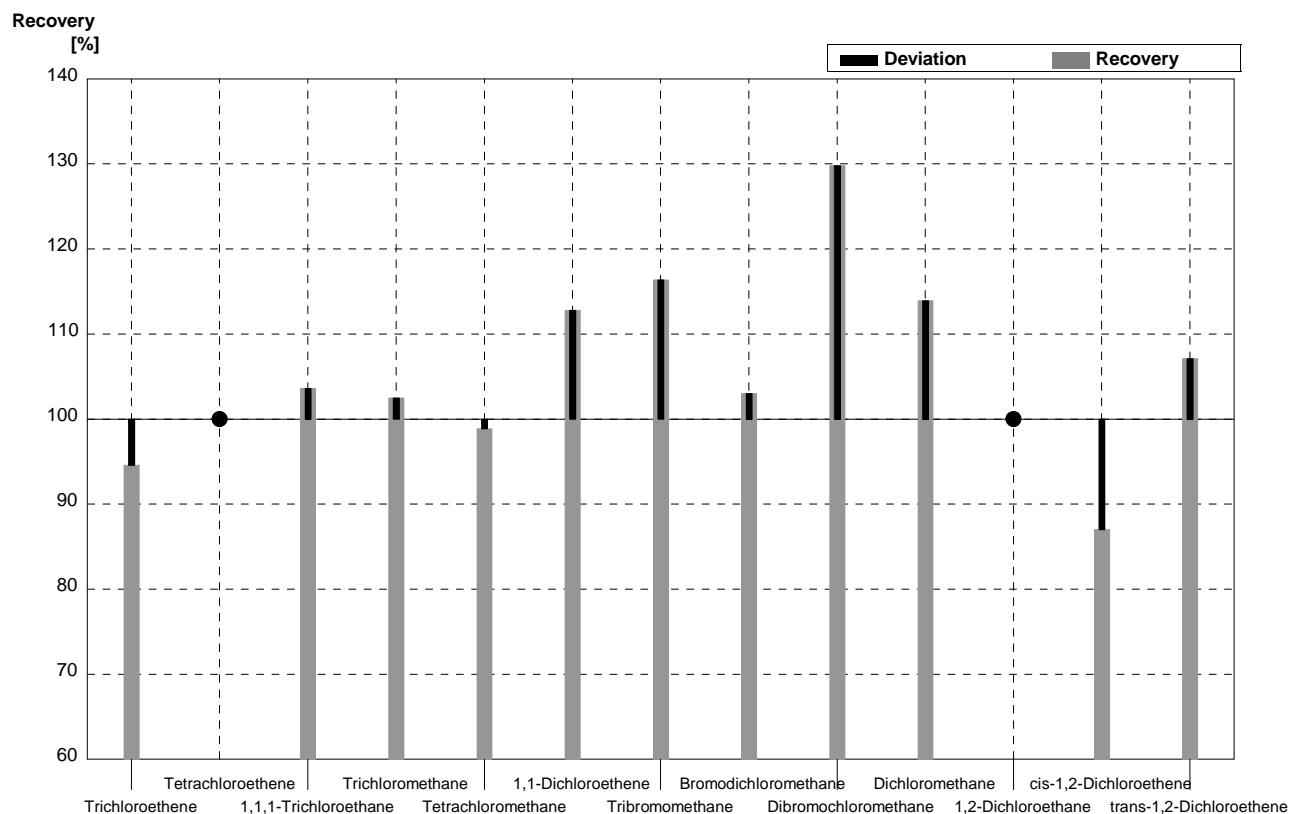
Sample C60A
Laboratory P

Parameter	Target value	$\pm U$ ($k=2$)	Result	\pm	Unit	Recovery
Trichloroethene	2,14	0,11	2,21	0,57	$\mu\text{g/l}$	103%
Tetrachloroethene	1,35	0,07	1,43	0,37	$\mu\text{g/l}$	106%
1,1,1-Trichloroethane	0,25	0,01	0,27	0,07	$\mu\text{g/l}$	108%
Trichloromethane	0,28	0,01	0,29	0,08	$\mu\text{g/l}$	104%
Tetrachloromethane	0,73	0,04	0,74	0,19	$\mu\text{g/l}$	101%
1,1-Dichloroethene	1,77	0,09	2,02	0,52	$\mu\text{g/l}$	114%
Tribromomethane	<0,04		<0,1	0,03	$\mu\text{g/l}$	•
Bromodichloromethane	0,41	0,02	0,42	0,11	$\mu\text{g/l}$	102%
Dibromochloromethane	0,39	0,02	0,50	0,13	$\mu\text{g/l}$	128%
Dichloromethane	4,60	0,23	5,26	1,37	$\mu\text{g/l}$	114%
1,2-Dichloroethane	0,78	0,04	0,80	0,21	$\mu\text{g/l}$	103%
cis-1,2-Dichloroethene	0,54	0,03	0,44	0,11	$\mu\text{g/l}$	81%
trans-1,2-Dichloroethene	3,08	0,15	3,38	0,88	$\mu\text{g/l}$	110%



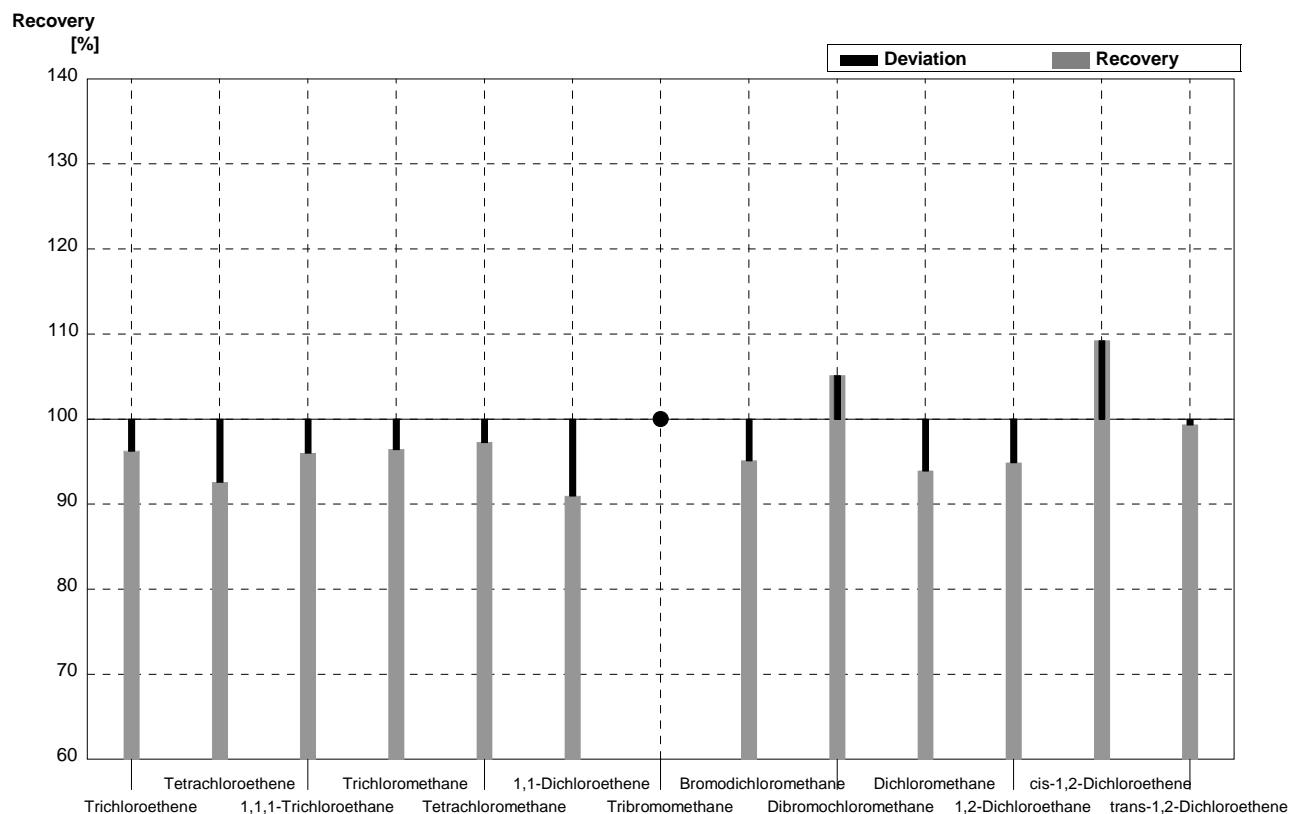
Sample C60B
Laboratory P

Parameter	Target value	$\pm U$ ($k=2$)	Result	\pm	Unit	Recovery
Trichloroethene	0,37	0,02	0,35	0,09	$\mu\text{g/l}$	95%
Tetrachloroethene	<0,06		<0,1	0,03	$\mu\text{g/l}$	•
1,1,1-Trichloroethane	0,55	0,03	0,57	0,15	$\mu\text{g/l}$	104%
Trichloromethane	1,20	0,06	1,23	0,32	$\mu\text{g/l}$	103%
Tetrachloromethane	1,80	0,09	1,78	0,46	$\mu\text{g/l}$	99%
1,1-Dichloroethene	1,17	0,06	1,32	0,34	$\mu\text{g/l}$	113%
Tribromomethane	2,56	0,13	2,98	0,78	$\mu\text{g/l}$	116%
Bromodichloromethane	0,66	0,03	0,68	0,18	$\mu\text{g/l}$	103%
Dibromochloromethane	1,81	0,09	2,35	0,61	$\mu\text{g/l}$	130%
Dichloromethane	0,86	0,04	0,98	0,25	$\mu\text{g/l}$	114%
1,2-Dichloroethane	<0,4		<0,1	0,03	$\mu\text{g/l}$	•
cis-1,2-Dichloroethene	1,08	0,05	0,94	0,24	$\mu\text{g/l}$	87%
trans-1,2-Dichloroethene	0,42	0,02	0,45	0,12	$\mu\text{g/l}$	107%



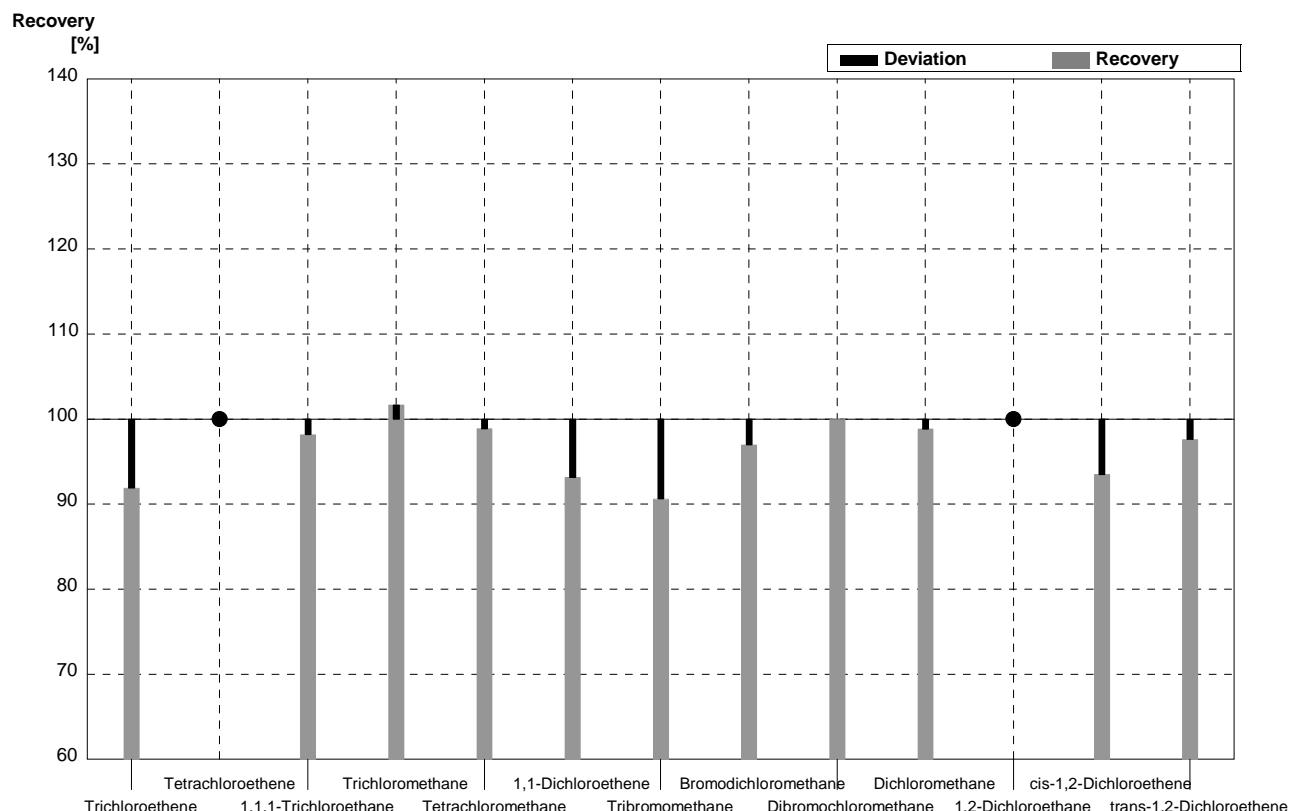
Sample C60A
Laboratory Q

Parameter	Target value	$\pm U (k=2)$	Result	\pm	Unit	Recovery
Trichloroethene	2,14	0,11	2,06	0,41	$\mu\text{g/l}$	96%
Tetrachloroethene	1,35	0,07	1,25	0,25	$\mu\text{g/l}$	93%
1,1,1-Trichloroethane	0,25	0,01	0,24	0,05	$\mu\text{g/l}$	96%
Trichloromethane	0,28	0,01	0,27	0,05	$\mu\text{g/l}$	96%
Tetrachloromethane	0,73	0,04	0,71	0,14	$\mu\text{g/l}$	97%
1,1-Dichloroethene	1,77	0,09	1,61	0,32	$\mu\text{g/l}$	91%
Tribromomethane	<0,04		<0,03		$\mu\text{g/l}$	•
Bromodichloromethane	0,41	0,02	0,39	0,08	$\mu\text{g/l}$	95%
Dibromochloromethane	0,39	0,02	0,41	0,08	$\mu\text{g/l}$	105%
Dichloromethane	4,60	0,23	4,32	0,86	$\mu\text{g/l}$	94%
1,2-Dichloroethane	0,78	0,04	0,74	0,15	$\mu\text{g/l}$	95%
cis-1,2-Dichloroethene	0,54	0,03	0,59	0,12	$\mu\text{g/l}$	109%
trans-1,2-Dichloroethene	3,08	0,15	3,06	0,61	$\mu\text{g/l}$	99%



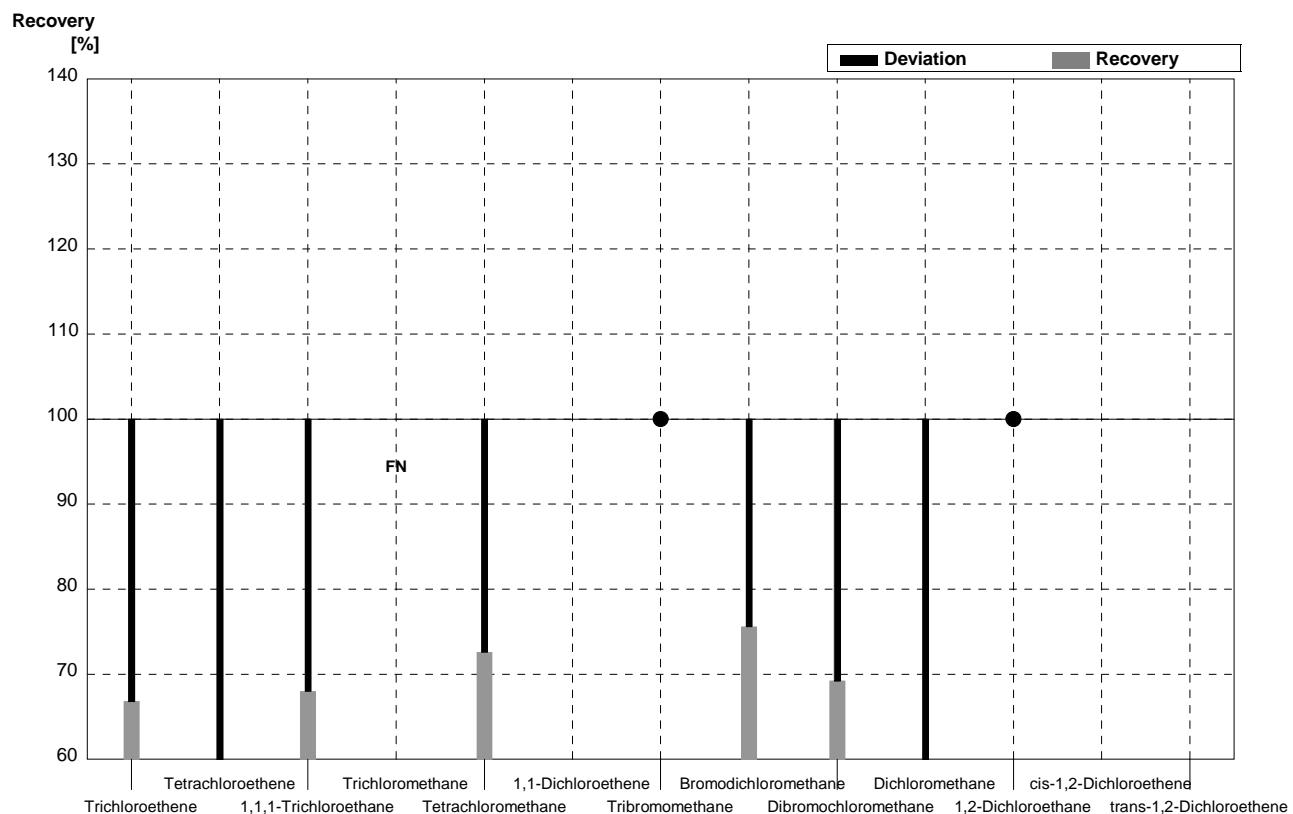
Sample C60B
Laboratory Q

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Trichloroethene	0,37	0,02	0,34	0,07	µg/l	92%
Tetrachloroethene	<0,06		<0,04		µg/l	•
1,1,1-Trichloroethane	0,55	0,03	0,54	0,11	µg/l	98%
Trichloromethane	1,20	0,06	1,22	0,24	µg/l	102%
Tetrachloromethane	1,80	0,09	1,78	0,36	µg/l	99%
1,1-Dichloroethene	1,17	0,06	1,09	0,22	µg/l	93%
Tribromomethane	2,56	0,13	2,32	0,46	µg/l	91%
Bromodichloromethane	0,66	0,03	0,64	0,13	µg/l	97%
Dibromochloromethane	1,81	0,09	1,81	0,36	µg/l	100%
Dichloromethane	0,86	0,04	0,85	0,17	µg/l	99%
1,2-Dichloroethane	<0,4		<0,13		µg/l	•
cis-1,2-Dichloroethene	1,08	0,05	1,01	0,20	µg/l	94%
trans-1,2-Dichloroethene	0,42	0,02	0,41	0,08	µg/l	98%



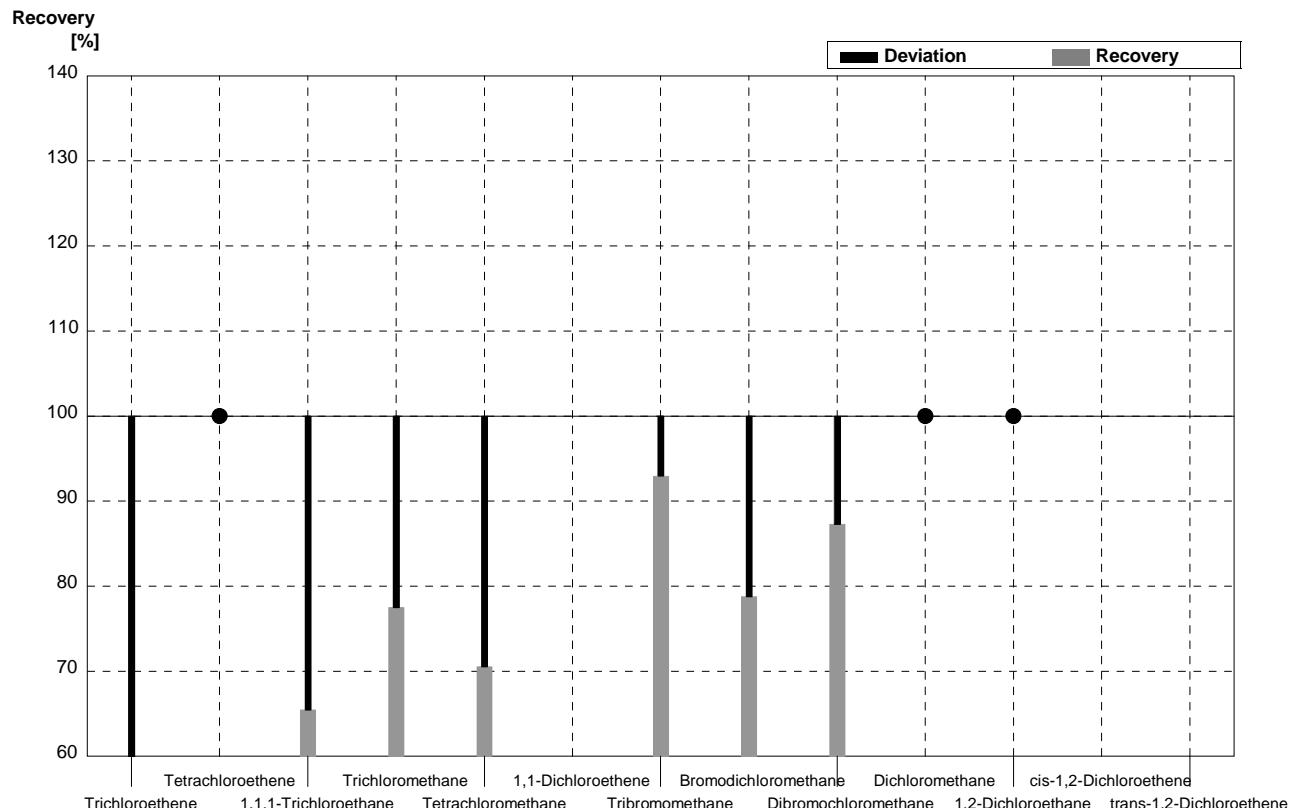
Sample C60A
Laboratory R

Parameter	Target value	$\pm U (k=2)$	Result	\pm	Unit	Recovery
Trichloroethene	2,14	0,11	1,43	0,36	$\mu\text{g/l}$	67%
Tetrachloroethene	1,35	0,07	0,78	0,20	$\mu\text{g/l}$	58%
1,1,1-Trichloroethane	0,25	0,01	0,17	0,04	$\mu\text{g/l}$	68%
Trichloromethane	0,28	0,01	<0,2	0,05	$\mu\text{g/l}$	FN
Tetrachloromethane	0,73	0,04	0,53	0,13	$\mu\text{g/l}$	73%
1,1-Dichloroethene	1,77	0,09			$\mu\text{g/l}$	
Tribromomethane	<0,04		<0,2	0,05	$\mu\text{g/l}$	•
Bromodichloromethane	0,41	0,02	0,31	0,08	$\mu\text{g/l}$	76%
Dibromochloromethane	0,39	0,02	0,27	0,07	$\mu\text{g/l}$	69%
Dichloromethane	4,60	0,23	2,70	0,68	$\mu\text{g/l}$	59%
1,2-Dichloroethane	0,78	0,04	<1,0	0,25	$\mu\text{g/l}$	•
cis-1,2-Dichloroethene	0,54	0,03			$\mu\text{g/l}$	
trans-1,2-Dichloroethene	3,08	0,15			$\mu\text{g/l}$	



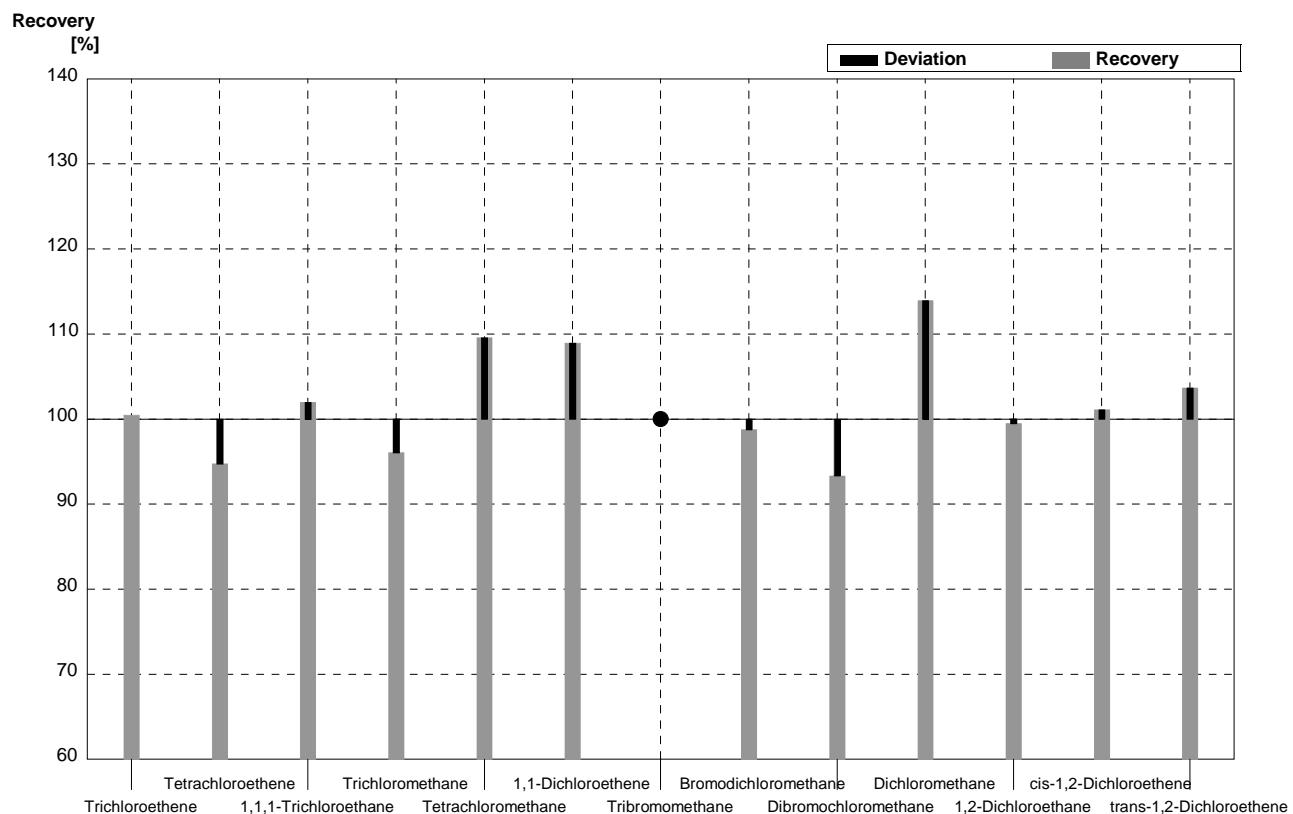
Sample C60B
Laboratory R

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Trichloroethene	0,37	0,02	0,19	0,05	µg/l	51%
Tetrachloroethene	<0,06		<0,1	0,025	µg/l	•
1,1,1-Trichloroethane	0,55	0,03	0,36	0,09	µg/l	65%
Trichloromethane	1,20	0,06	0,93	0,23	µg/l	78%
Tetrachloromethane	1,80	0,09	1,27	0,32	µg/l	71%
1,1-Dichloroethene	1,17	0,06			µg/l	
Tribromomethane	2,56	0,13	2,38	0,60	µg/l	93%
Bromodichloromethane	0,66	0,03	0,52	0,13	µg/l	79%
Dibromochloromethane	1,81	0,09	1,58	0,40	µg/l	87%
Dichloromethane	0,86	0,04	<1,0	0,25	µg/l	•
1,2-Dichloroethane	<0,4		<1,0	0,25	µg/l	•
cis-1,2-Dichloroethene	1,08	0,05			µg/l	
trans-1,2-Dichloroethene	0,42	0,02			µg/l	



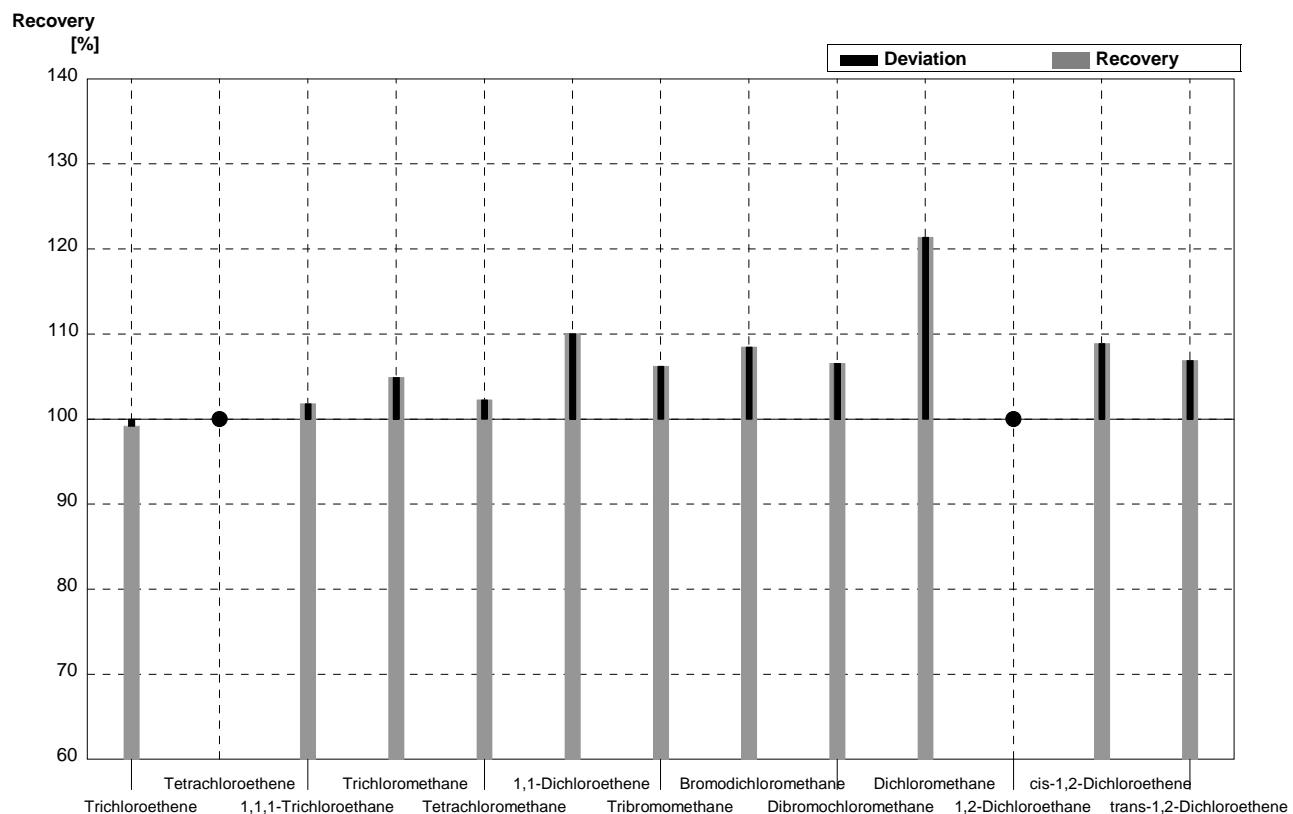
Sample C60A
Laboratory S

Parameter	Target value	$\pm U (k=2)$	Result	\pm	Unit	Recovery
Trichloroethene	2,14	0,11	2,150	0,323	$\mu\text{g/l}$	100%
Tetrachloroethene	1,35	0,07	1,279	0,281	$\mu\text{g/l}$	95%
1,1,1-Trichloroethane	0,25	0,01	0,255	0,051	$\mu\text{g/l}$	102%
Trichloromethane	0,28	0,01	0,269	0,062	$\mu\text{g/l}$	96%
Tetrachloromethane	0,73	0,04	0,800	0,136	$\mu\text{g/l}$	110%
1,1-Dichloroethene	1,77	0,09	1,928	0,482	$\mu\text{g/l}$	109%
Tribromomethane	<0,04		<0,14		$\mu\text{g/l}$	•
Bromodichloromethane	0,41	0,02	0,405	0,085	$\mu\text{g/l}$	99%
Dibromochloromethane	0,39	0,02	0,364	0,106	$\mu\text{g/l}$	93%
Dichloromethane	4,60	0,23	5,241	1,310	$\mu\text{g/l}$	114%
1,2-Dichloroethane	0,78	0,04	0,776	0,241	$\mu\text{g/l}$	99%
cis-1,2-Dichloroethene	0,54	0,03	0,546	0,137	$\mu\text{g/l}$	101%
trans-1,2-Dichloroethene	3,08	0,15	3,193	0,798	$\mu\text{g/l}$	104%



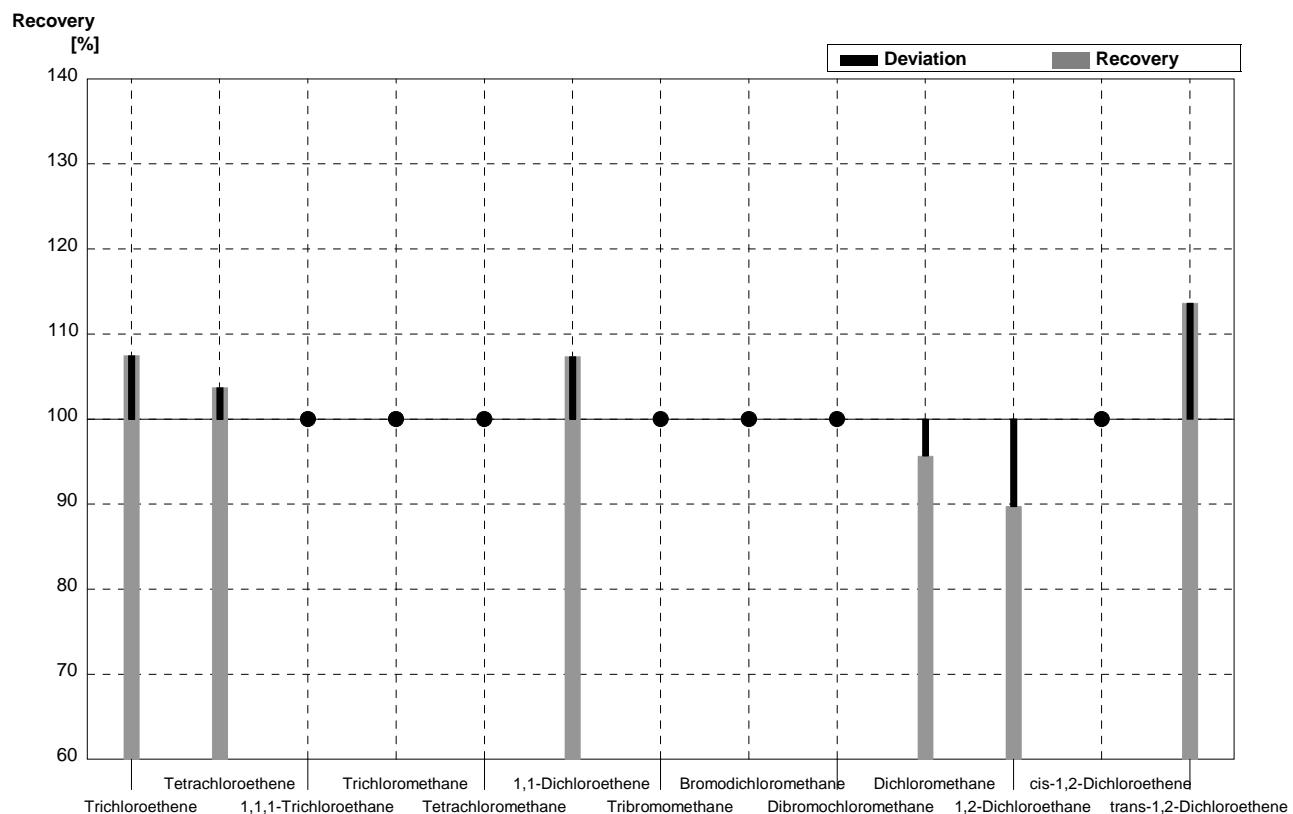
Sample C60B
Laboratory S

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Trichloroethene	0,37	0,02	0,367	0,055	µg/l	99%
Tetrachloroethene	<0,06		<0,10		µg/l	•
1,1,1-Trichloroethane	0,55	0,03	0,560	0,112	µg/l	102%
Trichloromethane	1,20	0,06	1,259	0,290	µg/l	105%
Tetrachloromethane	1,80	0,09	1,841	0,313	µg/l	102%
1,1-Dichloroethene	1,17	0,06	1,288	0,322	µg/l	110%
Tribromomethane	2,56	0,13	2,719	1,142	µg/l	106%
Bromodichloromethane	0,66	0,03	0,716	0,150	µg/l	108%
Dibromochloromethane	1,81	0,09	1,929	0,559	µg/l	107%
Dichloromethane	0,86	0,04	1,044	0,261	µg/l	121%
1,2-Dichloroethane	<0,4		<0,10		µg/l	•
cis-1,2-Dichloroethene	1,08	0,05	1,176	0,294	µg/l	109%
trans-1,2-Dichloroethene	0,42	0,02	0,449	0,112	µg/l	107%



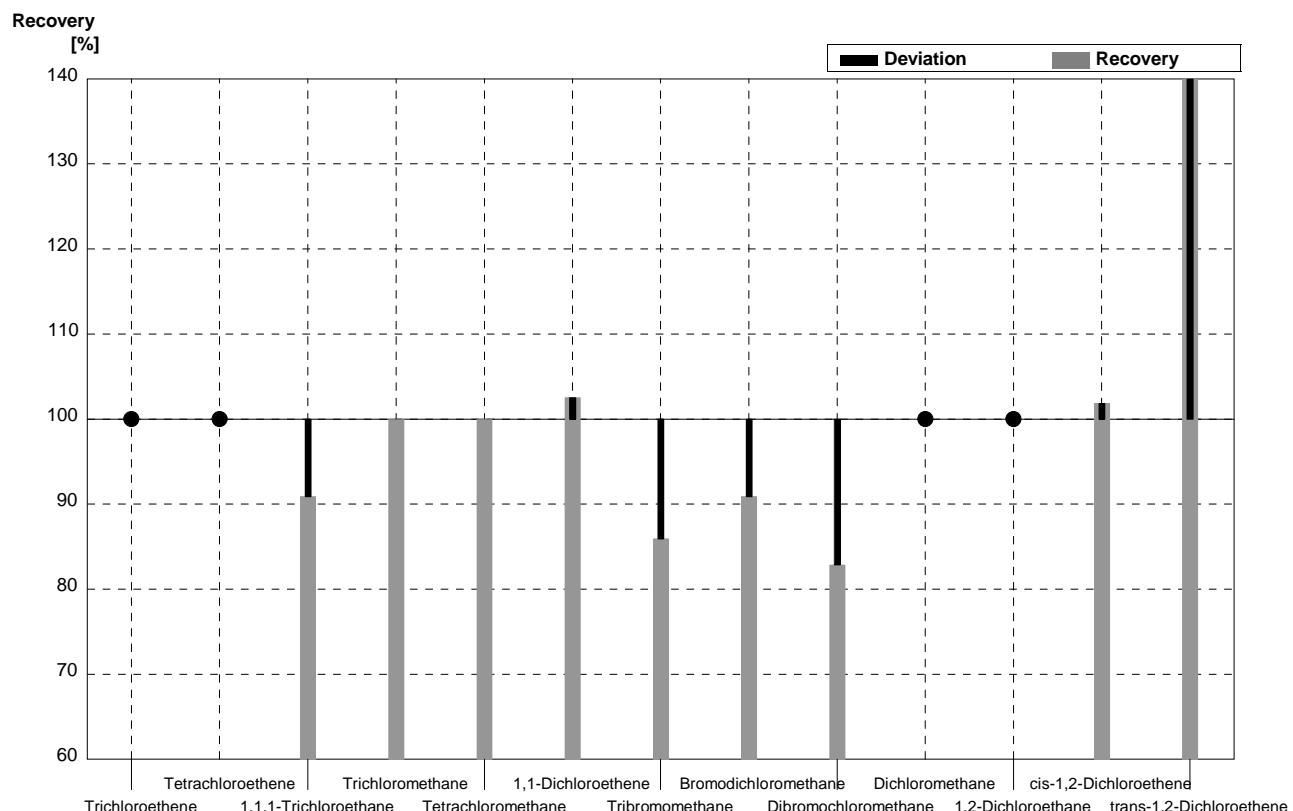
Sample C60A
Laboratory T

Parameter	Target value	$\pm U (k=2)$	Result	\pm	Unit	Recovery
Trichloroethene	2,14	0,11	2,3	0,1	$\mu\text{g/l}$	107%
Tetrachloroethene	1,35	0,07	1,4	0,1	$\mu\text{g/l}$	104%
1,1,1-Trichloroethane	0,25	0,01	<1,0		$\mu\text{g/l}$	•
Trichloromethane	0,28	0,01	<1,0		$\mu\text{g/l}$	•
Tetrachloromethane	0,73	0,04	<1,0		$\mu\text{g/l}$	•
1,1-Dichloroethene	1,77	0,09	1,9	0,1	$\mu\text{g/l}$	107%
Tribromomethane	<0,04		<1,0		$\mu\text{g/l}$	•
Bromodichloromethane	0,41	0,02	<1,0		$\mu\text{g/l}$	•
Dibromochloromethane	0,39	0,02	<1,0		$\mu\text{g/l}$	•
Dichloromethane	4,60	0,23	4,4	0,1	$\mu\text{g/l}$	96%
1,2-Dichloroethane	0,78	0,04	0,7	0,1	$\mu\text{g/l}$	90%
cis-1,2-Dichloroethene	0,54	0,03	<1,0		$\mu\text{g/l}$	•
trans-1,2-Dichloroethene	3,08	0,15	3,5	0,1	$\mu\text{g/l}$	114%



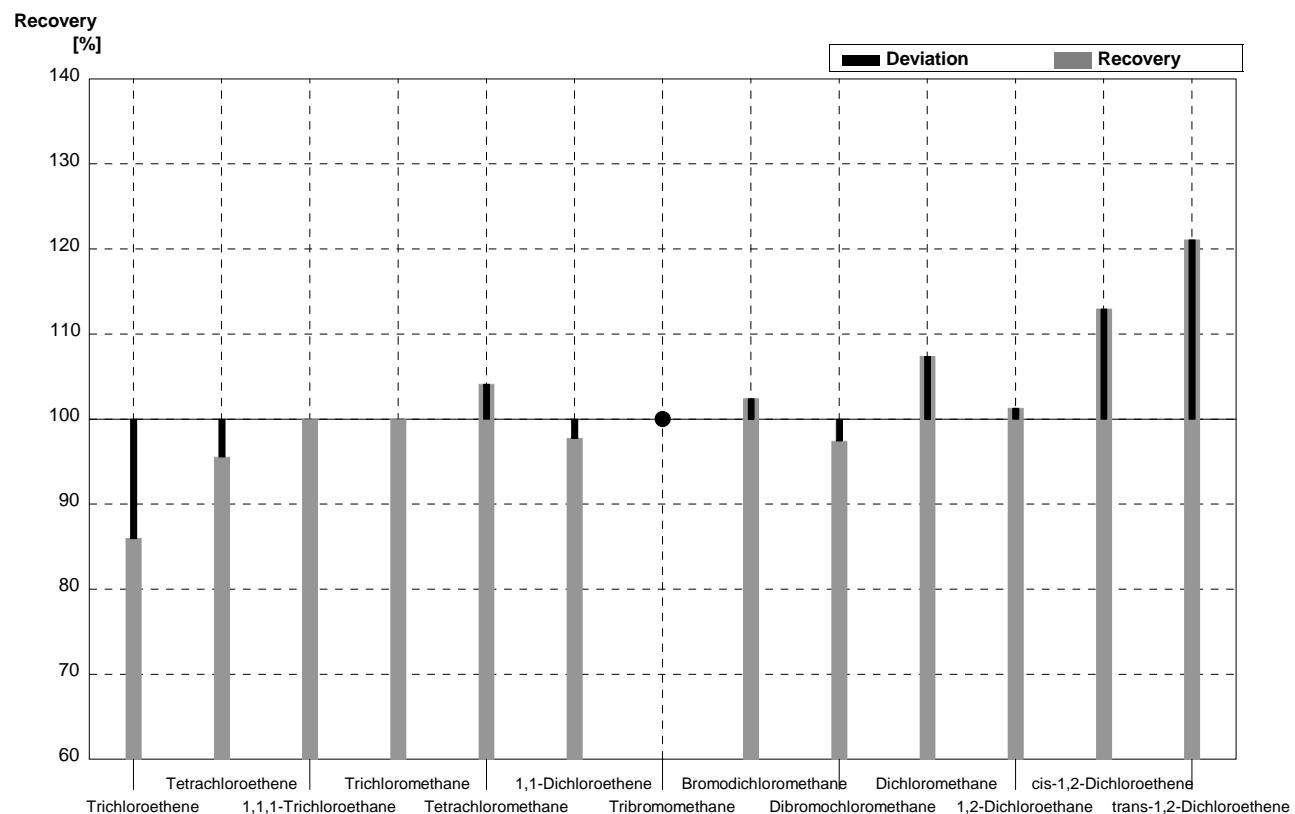
Sample C60B
Laboratory T

Parameter	Target value	$\pm U (k=2)$	Result	\pm	Unit	Recovery
Trichloroethene	0,37	0,02	<1,0		$\mu\text{g/l}$	•
Tetrachloroethene	<0,06		<0,5		$\mu\text{g/l}$	•
1,1,1-Trichloroethane	0,55	0,03	0,5	0,1	$\mu\text{g/l}$	91%
Trichloromethane	1,20	0,06	1,2	0,1	$\mu\text{g/l}$	100%
Tetrachloromethane	1,80	0,09	1,8	0,2	$\mu\text{g/l}$	100%
1,1-Dichloroethene	1,17	0,06	1,2	0,1	$\mu\text{g/l}$	103%
Tribromomethane	2,56	0,13	2,2	0,1	$\mu\text{g/l}$	86%
Bromodichloromethane	0,66	0,03	0,6	0,1	$\mu\text{g/l}$	91%
Dibromochloromethane	1,81	0,09	1,5	0,1	$\mu\text{g/l}$	83%
Dichloromethane	0,86	0,04	<1,5		$\mu\text{g/l}$	•
1,2-Dichloroethane	<0,4		<1,0		$\mu\text{g/l}$	•
cis-1,2-Dichloroethene	1,08	0,05	1,1	0,1	$\mu\text{g/l}$	102%
trans-1,2-Dichloroethene	0,42	0,02	0,7	0,1	$\mu\text{g/l}$	167%



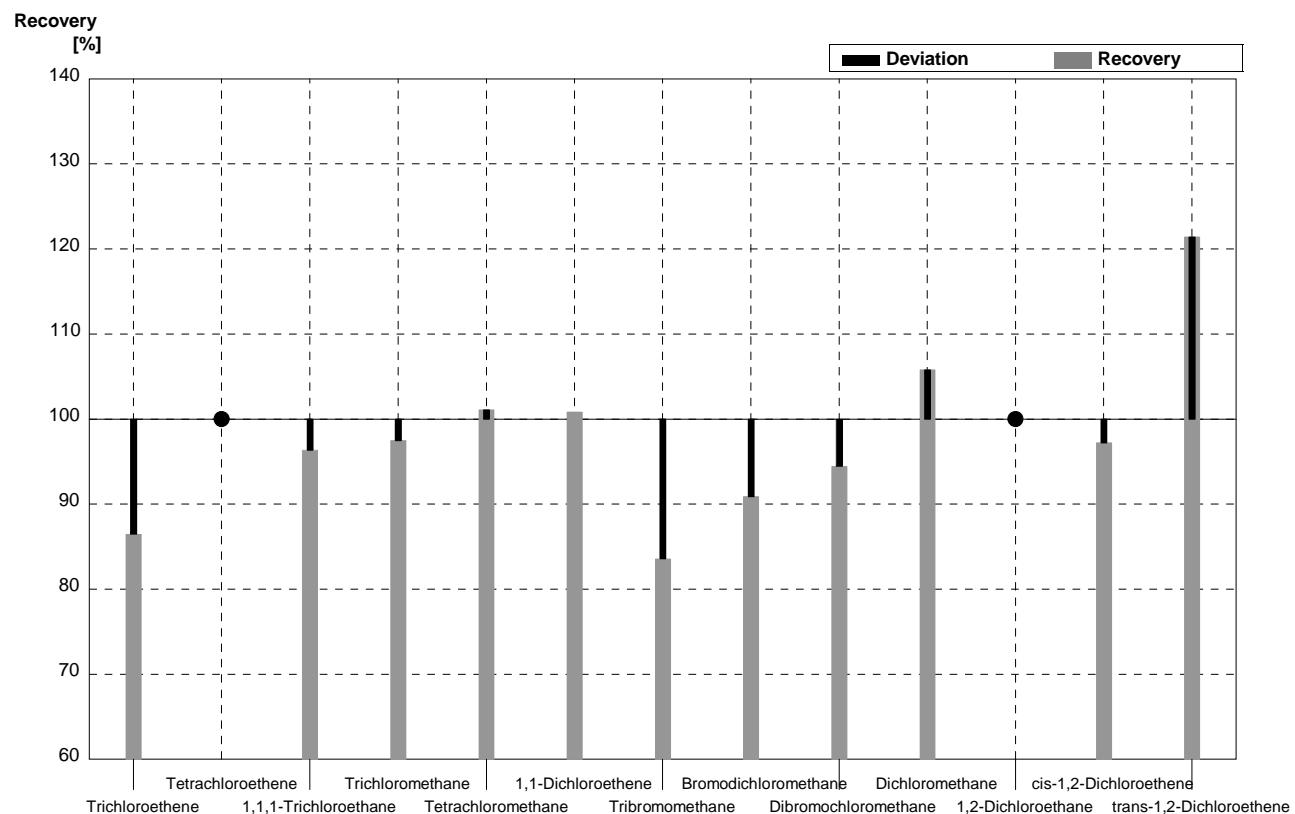
Sample C60A
Laboratory U

Parameter	Target value	\pm U ($k=2$)	Result	\pm	Unit	Recovery
Trichloroethene	2,14	0,11	1,84	0,2	$\mu\text{g/l}$	86%
Tetrachloroethene	1,35	0,07	1,29	0,15	$\mu\text{g/l}$	96%
1,1,1-Trichloroethane	0,25	0,01	0,25	0,025	$\mu\text{g/l}$	100%
Trichloromethane	0,28	0,01	0,28	0,03	$\mu\text{g/l}$	100%
Tetrachloromethane	0,73	0,04	0,76	0,08	$\mu\text{g/l}$	104%
1,1-Dichloroethene	1,77	0,09	1,73	0,18	$\mu\text{g/l}$	98%
Tribromomethane	<0,04		<0,1		$\mu\text{g/l}$	•
Bromodichloromethane	0,41	0,02	0,42	0,04	$\mu\text{g/l}$	102%
Dibromochloromethane	0,39	0,02	0,38	0,04	$\mu\text{g/l}$	97%
Dichloromethane	4,60	0,23	4,94	0,5	$\mu\text{g/l}$	107%
1,2-Dichloroethane	0,78	0,04	0,79	0,08	$\mu\text{g/l}$	101%
cis-1,2-Dichloroethene	0,54	0,03	0,61	0,06	$\mu\text{g/l}$	113%
trans-1,2-Dichloroethene	3,08	0,15	3,73	0,37	$\mu\text{g/l}$	121%



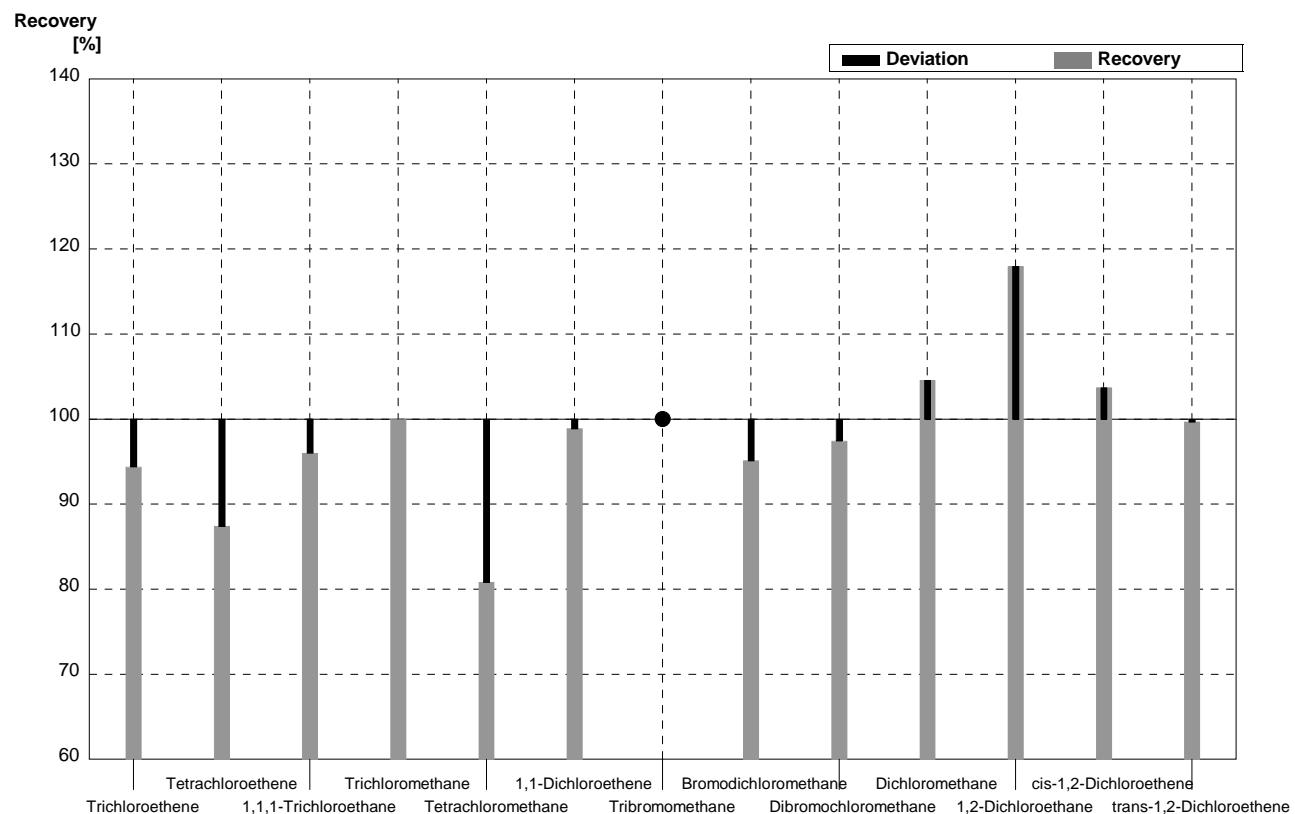
Sample C60B
Laboratory U

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Trichloroethene	0,37	0,02	0,32	0,03	µg/l	86%
Tetrachloroethene	<0,06		<0,1		µg/l	•
1,1,1-Trichloroethane	0,55	0,03	0,53	0,05	µg/l	96%
Trichloromethane	1,20	0,06	1,17	0,1	µg/l	98%
Tetrachloromethane	1,80	0,09	1,82	0,18	µg/l	101%
1,1-Dichloroethene	1,17	0,06	1,18	0,12	µg/l	101%
Tribromomethane	2,56	0,13	2,14	0,2	µg/l	84%
Bromodichloromethane	0,66	0,03	0,60	0,06	µg/l	91%
Dibromochloromethane	1,81	0,09	1,71	0,17	µg/l	94%
Dichloromethane	0,86	0,04	0,91	0,09	µg/l	106%
1,2-Dichloroethane	<0,4		<0,2		µg/l	•
cis-1,2-Dichloroethene	1,08	0,05	1,05	0,1	µg/l	97%
trans-1,2-Dichloroethene	0,42	0,02	0,51	0,05	µg/l	121%



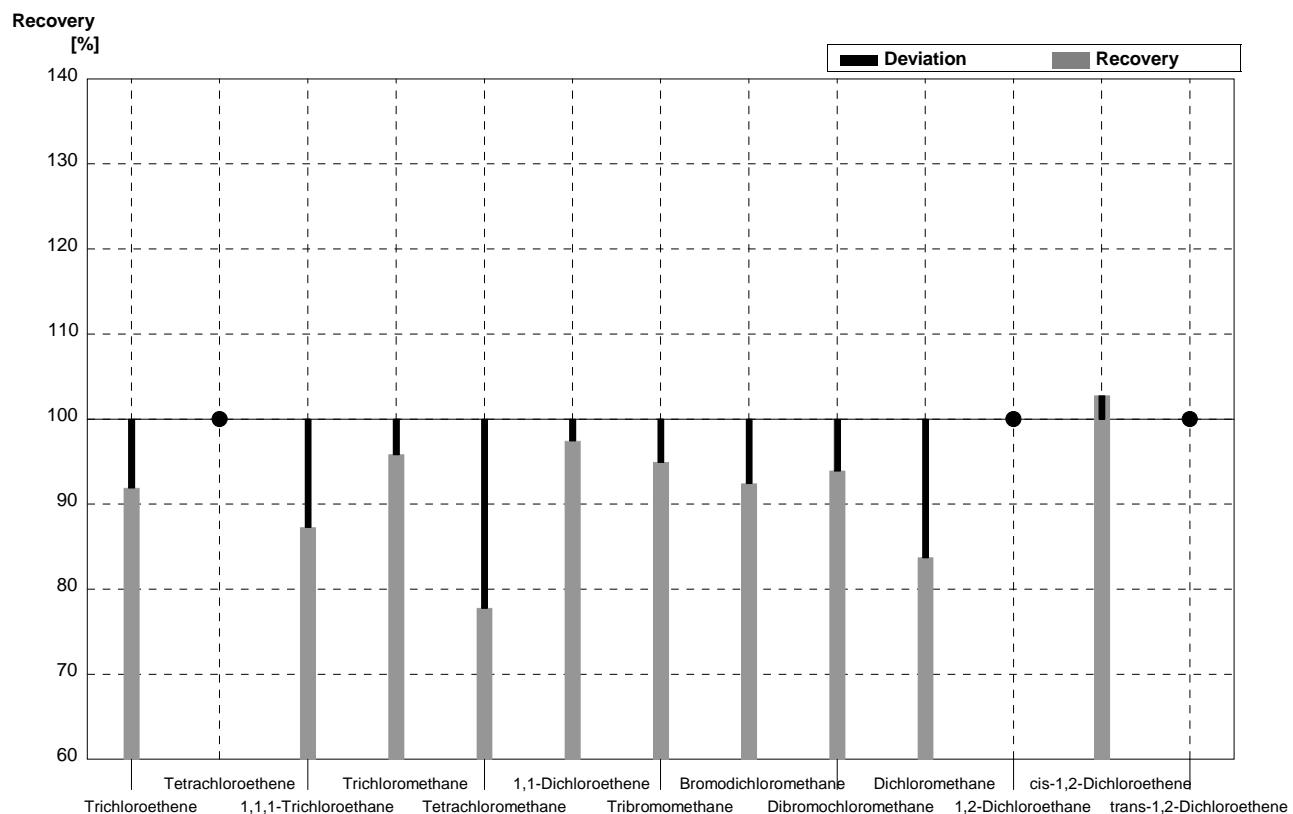
Sample C60A
Laboratory V

Parameter	Target value	$\pm U (k=2)$	Result	\pm	Unit	Recovery
Trichloroethene	2,14	0,11	2,02	0,30	$\mu\text{g/l}$	94%
Tetrachloroethene	1,35	0,07	1,18	0,18	$\mu\text{g/l}$	87%
1,1,1-Trichloroethane	0,25	0,01	0,24	0,04	$\mu\text{g/l}$	96%
Trichloromethane	0,28	0,01	0,28	0,04	$\mu\text{g/l}$	100%
Tetrachloromethane	0,73	0,04	0,59	0,09	$\mu\text{g/l}$	81%
1,1-Dichloroethene	1,77	0,09	1,75	0,26	$\mu\text{g/l}$	99%
Tribromomethane	<0,04		<0,1		$\mu\text{g/l}$	•
Bromodichloromethane	0,41	0,02	0,39	0,06	$\mu\text{g/l}$	95%
Dibromochloromethane	0,39	0,02	0,38	0,06	$\mu\text{g/l}$	97%
Dichloromethane	4,60	0,23	4,81	0,72	$\mu\text{g/l}$	105%
1,2-Dichloroethane	0,78	0,04	0,92	0,14	$\mu\text{g/l}$	118%
cis-1,2-Dichloroethene	0,54	0,03	0,56	0,08	$\mu\text{g/l}$	104%
trans-1,2-Dichloroethene	3,08	0,15	3,07	0,46	$\mu\text{g/l}$	100%



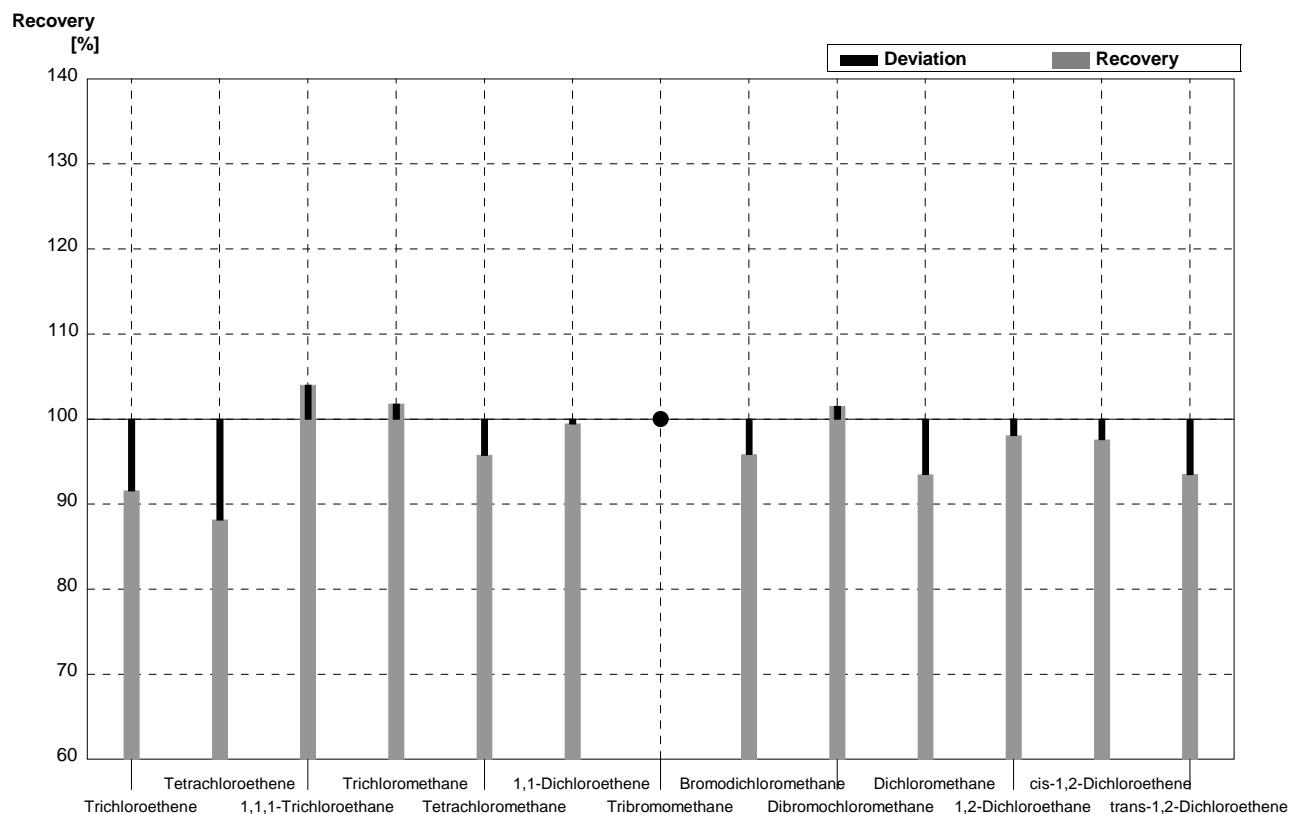
Sample C60B
Laboratory V

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
Trichloroethene	0,37	0,02	0,34	0,05	µg/l	92%
Tetrachloroethene	<0,06		<0,1		µg/l	•
1,1,1-Trichloroethane	0,55	0,03	0,48	0,07	µg/l	87%
Trichloromethane	1,20	0,06	1,15	0,17	µg/l	96%
Tetrachloromethane	1,80	0,09	1,40	0,21	µg/l	78%
1,1-Dichloroethene	1,17	0,06	1,14	0,17	µg/l	97%
Tribromomethane	2,56	0,13	2,43	0,36	µg/l	95%
Bromodichloromethane	0,66	0,03	0,61	0,09	µg/l	92%
Dibromochloromethane	1,81	0,09	1,70	0,26	µg/l	94%
Dichloromethane	0,86	0,04	0,72	0,11	µg/l	84%
1,2-Dichloroethane	<0,4		<0,5		µg/l	•
cis-1,2-Dichloroethene	1,08	0,05	1,11	0,17	µg/l	103%
trans-1,2-Dichloroethene	0,42	0,02	<0,5		µg/l	•



Sample C60A
Laboratory W

Parameter	Target value	$\pm U (k=2)$	Result	\pm	Unit	Recovery
Trichloroethene	2,14	0,11	1,96	0,00832	$\mu\text{g/l}$	92%
Tetrachloroethene	1,35	0,07	1,19	0,00384	$\mu\text{g/l}$	88%
1,1,1-Trichloroethane	0,25	0,01	0,260	0,00182	$\mu\text{g/l}$	104%
Trichloromethane	0,28	0,01	0,285	0,00121	$\mu\text{g/l}$	102%
Tetrachloromethane	0,73	0,04	0,699	0,00507	$\mu\text{g/l}$	96%
1,1-Dichloroethene	1,77	0,09	1,76	0,01375	$\mu\text{g/l}$	99%
Tribromomethane	<0,04		<0,10		$\mu\text{g/l}$	•
Bromodichloromethane	0,41	0,02	0,393	0,00011	$\mu\text{g/l}$	96%
Dibromochloromethane	0,39	0,02	0,396	0,00323	$\mu\text{g/l}$	102%
Dichloromethane	4,60	0,23	4,30	0,03516	$\mu\text{g/l}$	93%
1,2-Dichloroethane	0,78	0,04	0,765	0,00542	$\mu\text{g/l}$	98%
cis-1,2-Dichloroethene	0,54	0,03	0,527	0,00223	$\mu\text{g/l}$	98%
trans-1,2-Dichloroethene	3,08	0,15	2,88	0,01380	$\mu\text{g/l}$	94%



Sample C60B
Laboratory W

Parameter	Target value	$\pm U$ ($k=2$)	Result	\pm	Unit	Recovery
Trichloroethene	0,37	0,02	0,381	0,00704	$\mu\text{g/l}$	103%
Tetrachloroethene	<0,06		<0,10		$\mu\text{g/l}$	•
1,1,1-Trichloroethane	0,55	0,03	0,545	0,00596	$\mu\text{g/l}$	99%
Trichloromethane	1,20	0,06	1,13	0,01847	$\mu\text{g/l}$	94%
Tetrachloromethane	1,80	0,09	1,65	0,01737	$\mu\text{g/l}$	92%
1,1-Dichloroethene	1,17	0,06	1,19	0,01183	$\mu\text{g/l}$	102%
Tribromomethane	2,56	0,13	2,39	0,05922	$\mu\text{g/l}$	93%
Bromodichloromethane	0,66	0,03	0,630	0,01225	$\mu\text{g/l}$	95%
Dibromochloromethane	1,81	0,09	1,75	0,02966	$\mu\text{g/l}$	97%
Dichloromethane	0,86	0,04	0,864	0,01513	$\mu\text{g/l}$	100%
1,2-Dichloroethane	<0,4		<0,10		$\mu\text{g/l}$	•
cis-1,2-Dichloroethene	1,08	0,05	1,04	0,01251	$\mu\text{g/l}$	96%
trans-1,2-Dichloroethene	0,42	0,02	0,435	0,00508	$\mu\text{g/l}$	104%

