

Proficiency Testing Scheme for Water Analysis

Round HA85
Herbicides

Sample Dispatch: 11 March 2013





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This report summarises the results of round HA85 (herbicides) within the IFA-Test Proficiency Testing Scheme for water analysis. The samples HA85A and HA85B were distributed to the participants on Monday, 11 March 2013. Closing date for reporting results to the IFA-Tulln was Friday, 5 April 2013.

18 laboratories participated in this interlaboratory comparison. All laboratories submitted results.

Samples

The samples consisted of simulated ground water, which was spiked with solutions of the herbicides. 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: $Mg(NO_3)_2$, $MgSO_4$, Na_2SO_4 , $NaHCO_3$, $KHCO_3$, $CaCl_2$ and $Ca(NO_3)_2$. The calculation of the target concentrations of the compounds was based on the mass of standard added to the samples.

Desisopropylatrazine, propazine and simazine were not added to sample HA85A. Bromacil, diuron and metolachlor were not added to sample HA85B in order to check the analytical blank values.

Homogeneity, accuracy and stability tests at the IFA-Tulln

The samples HA85A and HA85B were prepared in one batch. For verification of homogeneity, 43 samples were taken from each batch and analysed for dissolved organic carbon (DOC). The DOC in the samples is defined by the volume of organic solvent added with the pesticide stock solution. The results of these DOC measurements showed a relative standard deviation of max. 1.12 %. Thus, sufficient sample homogeneity could be demonstrated.

Accuracy of the assigned pesticide concentrations was confirmed by measurements of three bottles of HA85A and HA85B, which were analysed prior to sample dispatch. The results 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 proficiency testing round were carried out four weeks after dispatch. Two bottles of HA85A and HA85B that had been stored at 5°C in the dark were analysed for their herbicide concentrations. The results (mean values) are listed in the result tables and in the parameter-oriented part of this report ("Stability test").

Results

Data evaluation was based on target concentrations that were calculated from the weights of the standards used to produce 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" (Second Edition).

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 concentration of desisopropylatrazine, propazine and simazine in sample HA85A and bromacil, diuron and metolachlor in sample HA85B, which were not added to the samples, were set to $< 0.05 \mu\text{g/L}$ bromacil, $< 0.05 \mu\text{g/L}$ desisopropylatrazine, $< 0.05 \mu\text{g/L}$ diuron, $< 0.05 \mu\text{g/L}$ metolachlor, $< 0.05 \mu\text{g/L}$ propazine and $< 0.05 \mu\text{g/L}$ simazine, 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 in the IFA.

Standard deviations and coefficients of variation (CVs) were only calculated when at least three results were available. The between laboratory CVs covered the range between 6.7 % (propazine in sample HA85B) and 31.2 % (2,6-dichlorobenzamide in sample HA85B).

The recoveries of the target concentrations, calculated from outlier-corrected data mean values ranged between 95.5 % (simazine in sample HA85B) and 112.1 % (prometryn in sample HA85A).

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 2002 to 2012. 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 [$\mu\text{g/L}$]
2,6-Dichlorobenzamide	14	0.05
Alachlor	13	0.05
Atrazine	14	0.05
Bromacil	14	0.05
Cyanazine	14	0.05
Desethylatrazine	16	0.05
Desethylterbuthylazine	14	0.05
Desisopropylatrazine	17	0.05
Diuron	13	0.05
Hexazinone	17	0.05
Metazachlor	15	0.05
Metolachlor	15	0.05
Prometryn	14	0.05
Propazine	13	0.05
Sebuthylazine	10	0.05
Simazine	14	0.05
Terbuthylazine	14	0.05
Terbutryn	14	0.05

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 2002 to 2012.

Illustration of results

An explanation to the illustration of the results is given on the following page. Graphical and tabular illustration of results can be divided into a parameter oriented and a laboratory-oriented part.

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 calculating statistical parameters (mean values, standard deviations and confidence intervals). Moreover, the parameter oriented part contains the uncertainties of the target value. The reported uncertainty is an expanded uncertainty calculated using a coverage factor (k) of 2 which gives a level of confidence of approximately 95% (as described in the EURACHEM / CITAC Guide "Quantifying Uncertainty in Analytical Measurement" (Second Edition)). The uncertainty interval of the reference concentration is illustrated in the graph as a grey band around the 100% recovery line.

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

- **FN**: A result is false negative when the "< result" reported is lower than the corresponding target value (under consideration of the uncertainty of the target value)
- **FP**: False positive results can be obtained for compounds not added to the samples: a result is termed FP when it is higher than the corresponding method quantification limit of the procedure employed at the IFA-Tulln.
- •: all other results for which no recovery rate can be calculated are illustrated by this symbol

Tulln, 12 April 2013

Sample C10B
Parameter Dichloromethane

Target value ± U (k=2) 10,4 µg/l ± 0,5 µg/l **Obtained from mass weighed out, U = uncertainty**

IFA result ± U (k=2) 10,2 µg/l ± 1,0 µg/l **Determined at IFA prior to shipment of samples**

Stability test ± U (k=2) 10,2 µg/l ± 1,0 µg/l **Determined at IFA 5 weeks after sample dispatch**

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

Recovery of target value in percent

z-Score of the laboratory

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 ± 3,8	9,7 ± 1,6	µg/l
Recov. +/- CI (99%)	108,3 ± 36,3	93,6 ± 15,1	%
SD between labs	5,3	1,9	µg/l
RSD between labs	47,3	19,1	%
n for calculation	17	13	

Between laboratory standard deviation

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

Number of data used for calculation of statistic parameters

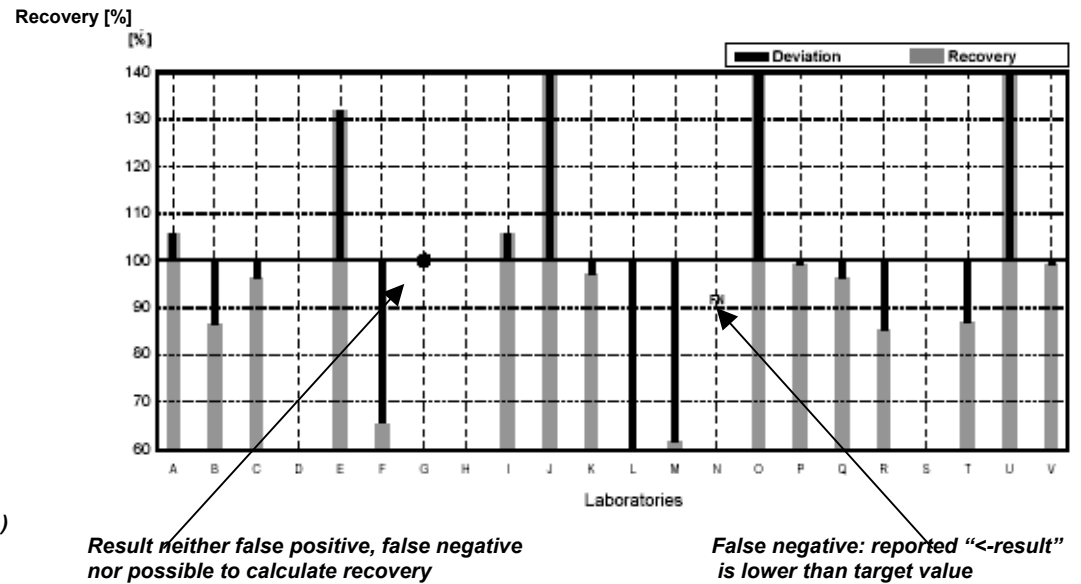
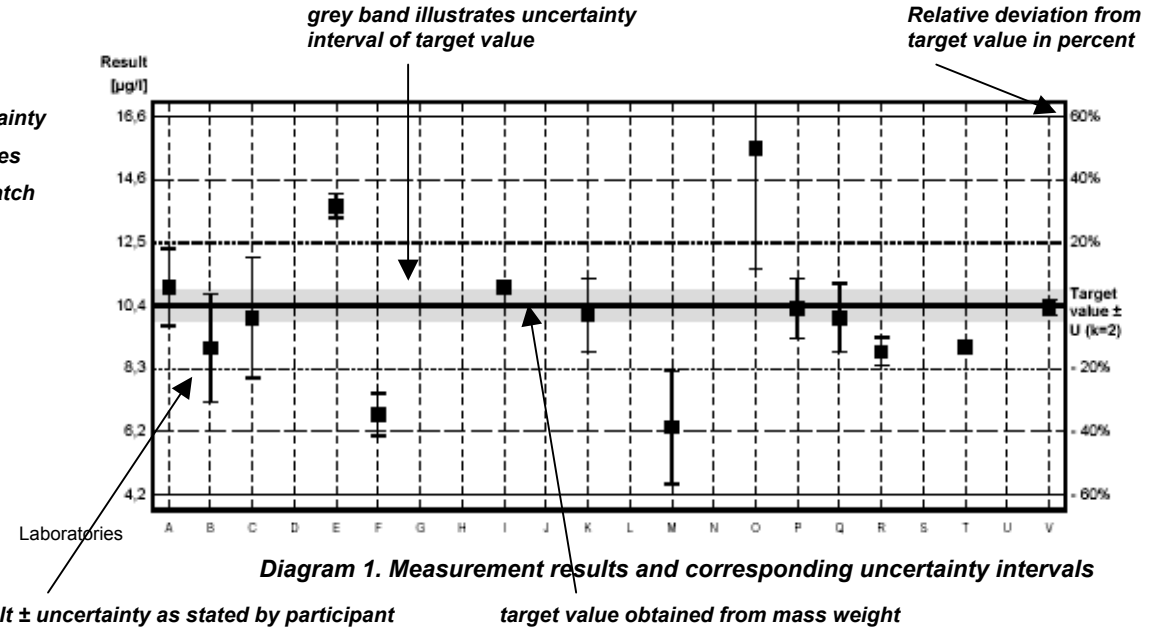


Diagram 2. Recoveries and deviations from target values

EXPLANATION

Illustration of Results Tables and Parameter Oriented Part

Round HA85
Herbicides

Sample Dispatch: 11 March 2013



Results Sample HA85A

	2,6-Dichloro- benzamide	Alachlor	Atrazine	Bromacil	Cyanazine	Desethyl- atrazine
Unit	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Target value	0.256	0.061	0.199	0.168	0.232	0.056
IFA result	0.247	0.058	0.199	0.166	0.234	0.046
Stability test	0.257	0.061	0.189	0.145	0.229	0.048
A			0.216			0.057
B		0.062	0.192		0.265	0.053
C	0.261	0.074	0.205	0.176	0.233	0.070
D	0.242	0.053	0.207		0.215	0.059
E			0.222	0.186	0.248	0.065
F	0.49		0.19	0.16	0.22	
G	0.305	0.056	0.198	0.165	0.242	0.059
H	0.275	n.b.	0.186	n.b.	n.b.	0.049
I		0.242	0.120			0.233
J	0.2414		0.1868	0.2730	0.2764	0.0731
K	0.280	0.048	0.204	0.144	0.311	0.059
L	0.255	0.063	0.200	0.169	0.237	0.068
M	0.078		0.165	0.174	0.148	0.041
N	0.403	0.077	0.227	0.227	0.321	0.110
O	NA	0.066	0.215	NA	0.252	0.053
P		0.059	0.207		0.258	0.065
Q	0.297		0.245			0.058
R	0.24	0.06	0.21	0.18	0.25	0.06

Uncertainties Sample HA85A

	2,6-Dichloro- benzamide	Alachlor	Atrazine	Bromacil	Cyanazine	Desethyl- atrazine
Unit	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Target value	0.013	0.003	0.010	0.008	0.012	0.003
IFA result	0.049	0.010	0.034	0.033	0.044	0.005
Stability test	0.051	0.010	0.032	0.029	0.044	0.005
A			0.030			0.010
B		0.0103	0.025		0.034	0.009
C	0.03	0.01	0.02	0.02	0.025	0.01
D	0.0093	0.0173	0.0067		0.0107	0.0101
E			0.007	0.007	0.002	0.003
F	0.107		0.042	0.035	0.048	
G	0.076	0.011	0.030	0.050	0.073	0.012
H	0.041		0.028			0.07
I		0.097	0.049			0.093
J	0.0362		0.0280	0.0410	0.0415	0.0110
K	0.056	0.010	0.041	0.029	0.062	0.012
L	0.038	0.009	0.030	0.025	0.024	0.007
M	0.016		0.033	0.035	0.030	0.008
N	0.161	0.031	0.091	0.091	0.128	0.044
O		0.017	0.054		0.063	0.013
P		0.02	0.05		0.06	0.02
Q	0.03		0.025			0.006
R	0.05	0.01	0.04	0.04	0.05	0.01

Results Sample HA85A

	Desethyl- terbuthylazine	Desisopropyl- atrazine	Diuron	Hexazinone	Metazachlor	Metolachlor
Unit	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Target value	0.124	<0.05	0.220	0.080	0.109	0.151
IFA result	0.132	<0.01	0.215	0.094	0.098	0.151
Stability test	0.124	<0.01	0.207	0.089	0.096	0.136
A		<0.020				
B	0.12				0.103	0.172
C	0.124	<0.05	0.240	0.095	0.110	0.162
D	0.130	<0.03				0.173
E	0.162	<0.011	0.222	0.090	0.128	0.201
F			0.21			0.12
G	0.116	<0.030	0.233	0.079	0.102	0.160
H	0.117	<0.03	0.202	0.083	0.088	0.202
I	0.291	0.150	<0.002			<0.001
J	0.1394		0.2102		0.1089	0.2021
K		0.025	0.212	0.118	0.123	0.135
L	0.131	<0.030	0.225	0.077	0.105	0.146
M	0.096	<0.010	0.256		0.191	0.168
N	0.152	<0.010	0.356	0.074	0.112	0.194
O	0.124	<0.02	NA	NA	NA	0.145
P	0.149	<0.005	0.249	0.089	0.136	0.190
Q		<0.01	0.276		0.105	0.160
R	0.12	<0.02	0.23		0.11	0.17

Uncertainties Sample HA85A

	Desethyl- terbuthylazine	Desisopropyl- atrazine	Diuron	Hexazinone	Metazachlor	Metolachlor
	±	±	±	±	±	±
Unit	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Target value	0.006		0.011	0.004	0.005	0.008
IFA result	0.020		0.043	0.013	0.016	0.026
Stability test	0.019		0.041	0.012	0.015	0.023
A						
B	0.017				0.0147	0.023
C	0.015		0.025	0.01	0.015	0.02
D	0.0099					0.0145
E	0.017		0.006	0.003	0.011	0.014
F			0.047			0.026
G	0.023		0.035	0.024	0.020	0.024
H	0.018		0.03	0.012	0.013	0.03
I	0.113	0.063				
J	0.0209		0.0315		0.0163	0.0303
K		0.005	0.042	0.024	0.025	0.027
L	0.020		0.034	0.012	0.016	0.022
M	0.019		0.051		0.038	0.034
N	0.061	0.004	0.142	0.030	0.045	0.078
O	0.031					0.036
P	0.05	0.002	0.06	0.03	0.05	0.05
Q			0.03		0.02	0.024
R	0.02		0.05		0.02	0.03

Results Sample HA85A

	Prometryn	Propazine	Sebuthyl- azine	Simazine	Terbuthyl- azine	Terbutryn
Unit	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Target value	0.071	<0.05	0.170	<0.05	0.100	0.141
IFA result	0.062	<0.01	0.168	<0.01	0.096	0.130
Stability test	0.065	<0.01	0.161	<0.01	0.105	0.123
A		<0.020		<0.020		
B	0.074	<0.01		<0.01	0.103	0.151
C	0.080	<0.05	0.165	<0.05	0.098	0.145
D	0.084	<0.03	0.172	<0.03	0.103	0.161
E		<0.010	0.191	<0.022	0.109	
F			0.18			
G	0.072	<0.010	0.156	<0.010	0.097	0.142
H	n.b.	<0.03	0.168	<0.03	0.090	n.b.
I	0.180	0.239		0.283	0.319	0.284
J			0.1683	0.0227	0.1018	0.1215
K		<0.01		<0.01	0.094	0.136
L	0.079	<0.030	0.174	<0.030	0.083	0.155
M		<0.010	0.152	<0.010	0.092	0.153
N	0.088	0.056	0.209	<0.010	0.127	0.177
O	NA	<0.02	0.175	<0.02	0.098	0.129
P	0.090	<0.005	0.156	0.005	0.102	0.148
Q		<0.03		<0.025	0.094	0.117
R	0.07	<0.02		<0.02	0.13	0.15

Uncertainties Sample HA85A

	Prometryn	Propazine	Sebuthyl- azine	Simazine	Terbuthyl- azine	Terbutryn
Unit	± µg/L	± µg/L	± µg/L	± µg/L	± µg/L	± µg/L
Target value	0.004		0.009		0.005	0.007
IFA result	0.007		0.013		0.012	0.018
Stability test	0.008		0.013		0.014	0.017
A						
B	0.0115				0.015	0.02
C	0.01		0.02		0.01	0.015
D	0.0222		0.0067		0.0075	0.0269
E			0.007		0.001	
F			0.040			
G	0.014		0.023		0.015	0.028
H			0.025		0.014	
I	0.068	0.098		0.113	0.131	0.108
J			0.0253	0.0034	0.0153	0.0182
K		0.002		0.002	0.019	0.027
L	0.012		0.026		0.012	0.023
M			0.030		0.018	0.031
N	0.035	0.022	0.084	0.004	0.051	0.071
O			0.044		0.025	0.032
P	0.02	0.002	0.04	0.002	0.02	0.04
Q					0.014	0.023
R	0.01				0.03	0.03

Results Sample HA85B

	2,6-Dichloro- benzamide	Alachlor	Atrazine	Bromacil	Cyanazine	Desethyl- atrazine
Unit	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Target value	0.070	0.200	0.079	<0.05	0.151	0.168
IFA result	0.072	0.201	0.079	<0.01	0.146	0.161
Stability test	0.064	0.194	0.073	<0.01	0.142	0.145
A			<0.020			0.024
B		0.188	0.079		0.16	0.176
C	0.080	0.194	0.083	<0.05	0.149	0.174
D	0.064	0.196	0.079		0.139	0.165
E			0.087	<0.010	0.160	0.197
F	0.11		0.05	<0.05	0.08	
G	0.081	0.206	0.076	<0.030	0.143	0.167
H	<0.03	n.b.	0.070	n.b.	n.b.	0.153
I		0.054	0.247			0.087
J	0.0795		0.0930		0.1837	0.1902
K	0.077	0.158	0.079	<0.01	0.166	0.184
L	0.069	0.210	0.077	<0.030	0.154	0.203
M	0.025		0.062	<0.010	0.080	0.126
N	0.106	0.240	0.122	<0.010	0.231	0.278
O	NA	0.202	0.081	NA	0.156	0.153
P		0.213	0.087		0.159	0.187
Q	0.062		0.077			0.186
R	0.06	0.20	0.08	<0.02	0.16	0.17

Uncertainties Sample HA85B

	2,6-Dichloro- benzamide	Alachlor	Atrazine	Bromacil	Cyanazine	Desethyl- atrazine
Unit	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Target value	0.004	0.010	0.004		0.008	0.008
IFA result	0.014	0.034	0.013		0.028	0.016
Stability test	0.013	0.033	0.012		0.027	0.014
A						0.004
B		0.025	0.012		0.021	0.023
C	0.01	0.02	0.01		0.015	0.02
D	0.0095	0.0168	0.0069		0.0108	0.0098
E			0.001		0.004	0.005
F	0.024		0.011		0.017	
G	0.020	0.041	0.011		0.043	0.033
H			0.011			0.023
I		0.024	0.099			0.036
J	0.0119		0.0140		0.0276	0.0285
K	0.015	0.032	0.016	0.002	0.033	0.037
L	0.010	0.031	0.012		0.016	0.020
M	0.005		0.012		0.016	0.025
N	0.042	0.096	0.049	0.004	0.092	0.111
O		0.051	0.020		0.039	0.038
P		0.07	0.02		0.04	0.04
Q	0.006		0.008			0.02
R	0.01	0.04	0.02		0.03	0.03

Results Sample HA85B

	Desethyl- terbuthylazine	Desisopropyl- atrazine	Diuron	Hexazinone	Metazachlor	Metolachlor
Unit	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Target value	0.216	0.293	<0.05	0.199	0.201	<0.05
IFA result	0.217	0.279	<0.01	0.174	0.197	<0.01
Stability test	0.208	0.262	<0.01	0.167	0.173	<0.01
A		0.048				
B	0.209				0.203	<0.01
C	0.212	0.327	<0.05	0.213	0.200	<0.05
D	0.223	0.303				<0.03
E	0.245	0.371	<0.009	0.207	0.218	<0.010
F					0.12	
G	0.194	0.346	<0.020	0.187	0.178	<0.010
H	0.201	0.340	<0.03	0.187	0.254	0.194
I	0.235	0.145	0.244			0.167
J	0.2187	0.2545		0.2546	0.1789	0.1833
K		0.267	<0.01	0.267	0.213	<0.01
L	0.222	0.283	<0.030	0.195	0.198	<0.030
M	0.164	0.280	<0.010		0.325	<0.010
N	0.261	0.284	<0.010	0.186	0.195	<0.010
O	0.210	0.149	NA	NA	NA	<0.02
P	0.250	0.314	<0.010	0.216	0.233	<0.005
Q		0.316	<0.02		0.200	<0.03
R	0.21	0.28	<0.02		0.20	<0.02

Uncertainties Sample HA85B

	Desethyl- terbuthylazine	Desisopropyl- atrazine	Diuron	Hexazinone	Metazachlor	Metolachlor
	±	±	±	±	±	±
Unit	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Target value	0.011	0.015		0.010	0.010	
IFA result	0.033	0.022		0.024	0.032	
Stability test	0.031	0.021		0.023	0.028	
A		0.010				
B	0.027				0.0267	
C	0.025	0.035		0.025	0.02	
D	0.0099	0.0086				
E	0.002	0.023		0.003	0.005	
F					0.026	
G	0.039	0.104		0.056	0.036	
H	0.03	0.051		0.028	0.038	0.029
I	0.099	0.058	0.102			0.068
J	0.0328	0.0382		0.0382	0.0268	0.0275
K		0.053	0.002	0.053	0.043	0.002
L	0.033	0.028		0.029	0.030	
M	0.033	0.056			0.065	
N	0.104	0.114	0.004	0.074	0.078	0.004
O	0.053	0.037				
P	0.08	0.08	0.003	0.04	0.08	0.003
Q		0.03			0.04	
R	0.04	0.06			0.02	

Results Sample HA85B

	Prometryn	Propazine	Sebuthyl- azine	Simazine	Terbuthyl- azine	Terbutryn
Unit	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Target value	0.136	0.171	0.081	0.202	0.217	0.201
IFA result	0.124	0.159	0.074	0.193	0.215	0.203
Stability test	0.120	0.151	0.070	0.190	0.198	0.175
A		0.024		0.028		
B	0.13	0.168		0.202	0.214	0.205
C	0.148	0.181	0.080	0.198	0.217	0.210
D	0.154	0.166	0.079	0.204	0.221	0.223
E		0.189	0.083	0.213	0.234	
F		0.15	0.09			
G	0.143	0.160	0.069	0.174	0.209	0.208
H	n.b.	0.172	0.068	0.157	0.192	n.b.
I	0.094	<0.001		<0.001	0.137	0.180
J		0.1532	0.0851	0.2038	0.2086	0.1727
K		<0.01		0.207	0.203	0.191
L	0.171	0.164	0.075	0.189	0.213	0.211
M		0.160	0.071	0.154	0.196	0.192
N	0.158	0.179	0.090	0.211	0.270	0.240
O	NA	0.156	0.085	0.186	0.214	0.172
P	0.157	0.163	0.077	0.210	0.228	0.195
Q		0.156		0.184	0.236	0.164
R	0.14	0.16		0.20	0.25	0.20

Uncertainties Sample HA85B

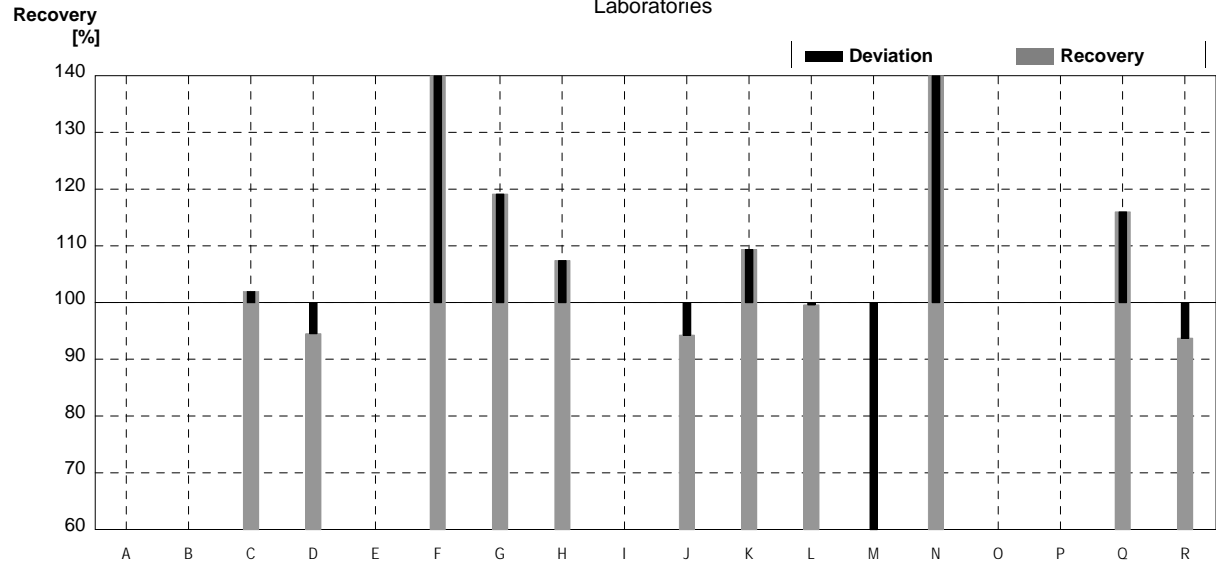
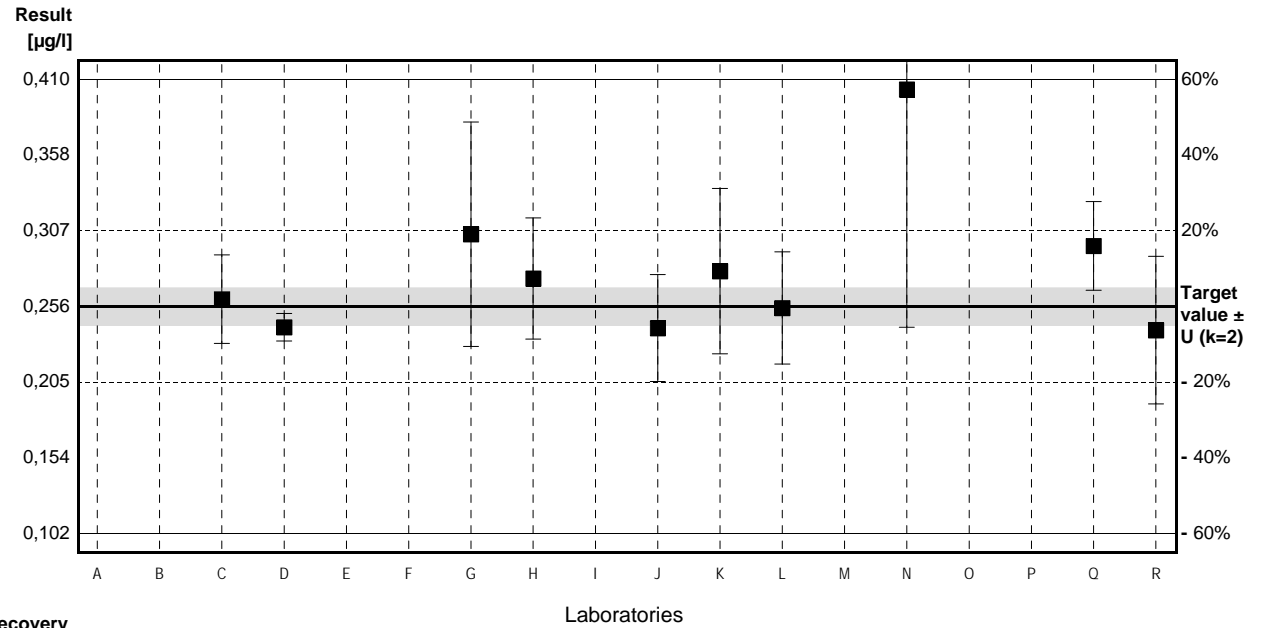
	Prometryn	Propazine	Sebuthyl- azine	Simazine	Terbuthyl- azine	Terbutryn
Unit	± µg/L	± µg/L	± µg/L	± µg/L	± µg/L	± µg/L
Target value	0.007	0.009	0.004	0.010	0.011	0.010
IFA result	0.015	0.025	0.006	0.033	0.028	0.028
Stability test	0.014	0.024	0.006	0.032	0.026	0.024
A		0.004		0.006		
B	0.018	0.022		0.027	0.028	0.027
C	0.02	0.02	0.01	0.02	0.025	0.025
D	0.0219	0.0054	0.0068	0.0088	0.0073	0.0268
E		0.004	0.008	0.002	0.006	
F		0.034	0.019			
G	0.029	0.024	0.010	0.035	0.031	0.042
H		0.026	0.01	0.024	0.029	
I	0.038				0.056	0.072
J		0.0230	0.0128	0.0306	0.0313	0.0259
K		0.002		0.041	0.041	0.038
L	0.026	0.025	0.011	0.028	0.032	0.032
M		0.032	0.014	0.031	0.039	0.038
N	0.063	0.072	0.036	0.084	0.108	0.096
O		0.039	0.021	0.047	0.054	0.043
P	0.04	0.04	0.02	0.05	0.05	0.05
Q		0.023		0.02	0.035	0.033
R	0.03	0.03		0.04	0.05	0.04

Sample HA85A

Parameter 2,6-Dichlorobenzamide

Target value ± U (k=2) 0,256 µg/l ± 0,013 µg/l
 IFA result ± U (k=2) 0,247 µg/l ± 0,049 µg/l
 Stability test ± U (k=2) 0,257 µg/l ± 0,051 µg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A			µg/l		
B			µg/l		
C	0,261	0,03	µg/l	102%	0,14
D	0,242	0,0093	µg/l	95%	-0,39
E			µg/l		
F	0,49 *	0,107	µg/l	191%	6,53
G	0,305	0,076	µg/l	119%	1,37
H	0,275	0,041	µg/l	107%	0,53
I			µg/l		
J	0,2414	0,0362	µg/l	94%	-0,41
K	0,280	0,056	µg/l	109%	0,67
L	0,255	0,038	µg/l	100%	-0,03
M	0,078 *	0,016	µg/l	30%	-4,97
N	0,403 *	0,161	µg/l	157%	4,10
O	NA		µg/l		
P			µg/l		
Q	0,297	0,03	µg/l	116%	1,14
R	0,24	0,05	µg/l	94%	-0,45



	All results	Outliers excl.	Unit
Mean ± CI(99%)	0,281 ± 0,088	0,266 ± 0,027	µg/l
Recov. ± CI(99%)	109,6 ± 34,5	104,0 ± 10,7	%
SD between labs	0,098	0,024	µg/l
RSD between labs	35,1	9,2	%
n for calculation	12	9	

Sample HA85B

Parameter 2,6-Dichlorobenzamide

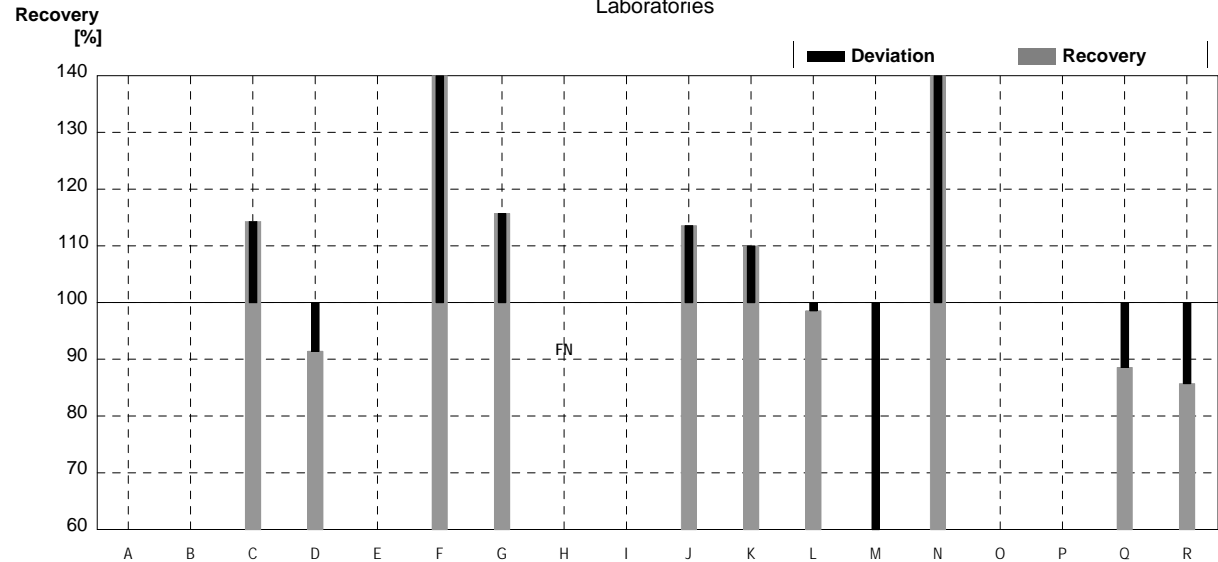
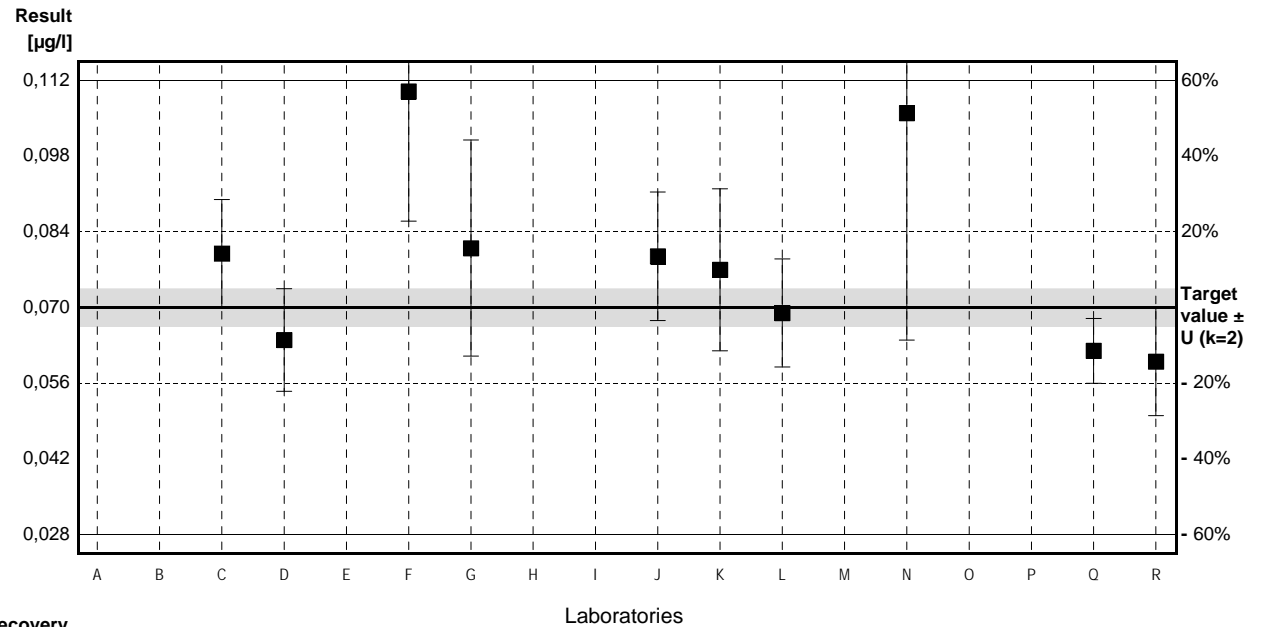
Target value ± U (k=2) 0,070 µg/l ± 0,004 µg/l

IFA result ± U (k=2) 0,072 µg/l ± 0,014 µg/l

Stability test ± U (k=2) 0,064 µg/l ± 0,013 µg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A			µg/l		
B			µg/l		
C	0,080	0,01	µg/l	114%	1,02
D	0,064	0,0095	µg/l	91%	-0,61
E			µg/l		
F	0,11	0,024	µg/l	157%	4,08
G	0,081	0,020	µg/l	116%	1,12
H	<0,03		µg/l	FN	
I			µg/l		
J	0,0795	0,0119	µg/l	114%	0,97
K	0,077	0,015	µg/l	110%	0,71
L	0,069	0,010	µg/l	99%	-0,10
M	0,025	0,005	µg/l	36%	-4,59
N	0,106	0,042	µg/l	151%	3,67
O	NA		µg/l		
P			µg/l		
Q	0,062	0,006	µg/l	89%	-0,82
R	0,06	0,01	µg/l	86%	-1,02

	All results	Outliers excl.	Unit
Mean ± CI(99%)	0,074 ± 0,022	0,074 ± 0,022	µg/l
Recov. ± CI(99%)	105,6 ± 31,5	105,6 ± 31,5	%
SD between labs	0,023	0,023	µg/l
RSD between labs	31,2	31,2	%
n for calculation	11	11	

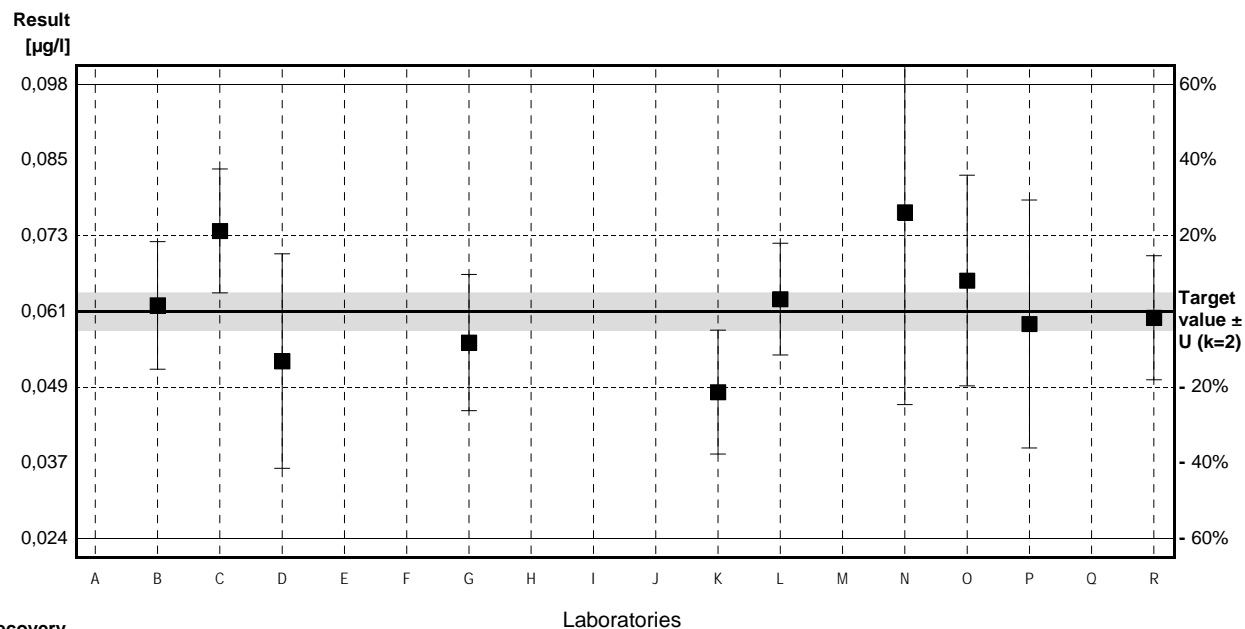


Sample HA85A

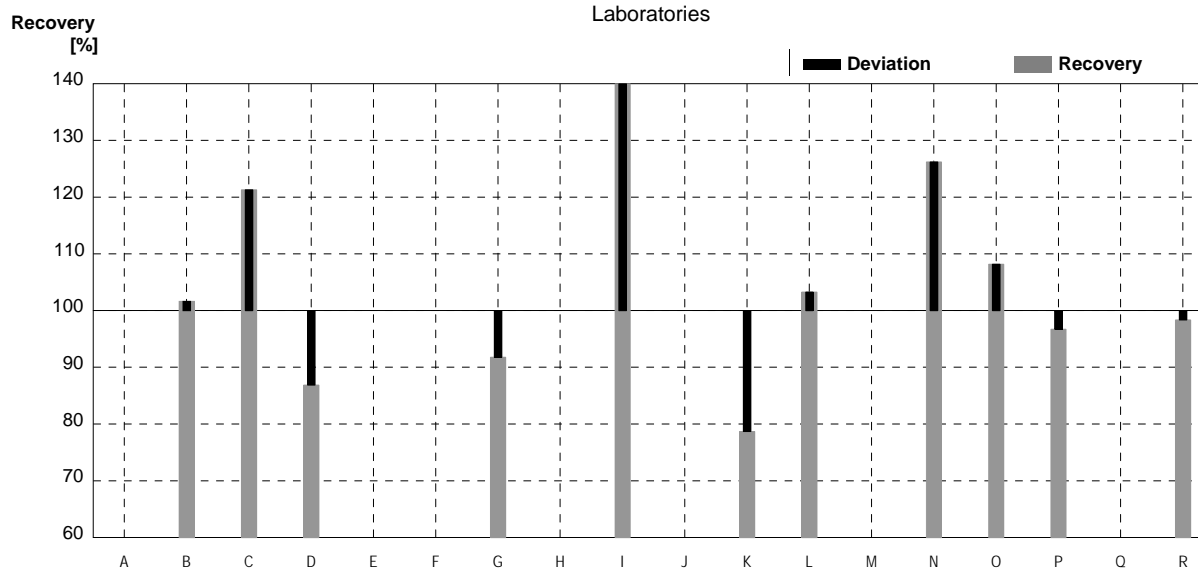
Parameter Alachlor

Target value $\pm U$ (k=2) 0,061 $\mu\text{g/l}$ \pm 0,003 $\mu\text{g/l}$
 IFA result $\pm U$ (k=2) 0,058 $\mu\text{g/l}$ \pm 0,010 $\mu\text{g/l}$
 Stability test $\pm U$ (k=2) 0,061 $\mu\text{g/l}$ \pm 0,010 $\mu\text{g/l}$

Lab Code	Result	\pm	Unit	Recovery	z-Score
A			$\mu\text{g/l}$		
B	0,062	0,0103	$\mu\text{g/l}$	102%	0,13
C	0,074	0,01	$\mu\text{g/l}$	121%	1,64
D	0,053	0,0173	$\mu\text{g/l}$	87%	-1,01
E			$\mu\text{g/l}$		
F			$\mu\text{g/l}$		
G	0,056	0,011	$\mu\text{g/l}$	92%	-0,63
H	n.b.		$\mu\text{g/l}$		
I	0,242 *	0,097	$\mu\text{g/l}$	397%	22,82
J			$\mu\text{g/l}$		
K	0,048	0,010	$\mu\text{g/l}$	79%	-1,64
L	0,063	0,009	$\mu\text{g/l}$	103%	0,25
M			$\mu\text{g/l}$		
N	0,077	0,031	$\mu\text{g/l}$	126%	2,02
O	0,066	0,017	$\mu\text{g/l}$	108%	0,63
P	0,059	0,02	$\mu\text{g/l}$	97%	-0,25
Q			$\mu\text{g/l}$		
R	0,06	0,01	$\mu\text{g/l}$	98%	-0,13



	All results	Outliers excl.	Unit
Mean \pm CI(99%)	0,078 \pm 0,053	0,062 \pm 0,009	$\mu\text{g/l}$
Recov. \pm CI(99%)	128,2 \pm 86,2	101,3 \pm 15,1	%
SD between labs	0,055	0,009	$\mu\text{g/l}$
RSD between labs	70,3	14,4	%
n for calculation	11	10	



Sample HA85B

Parameter Alachlor

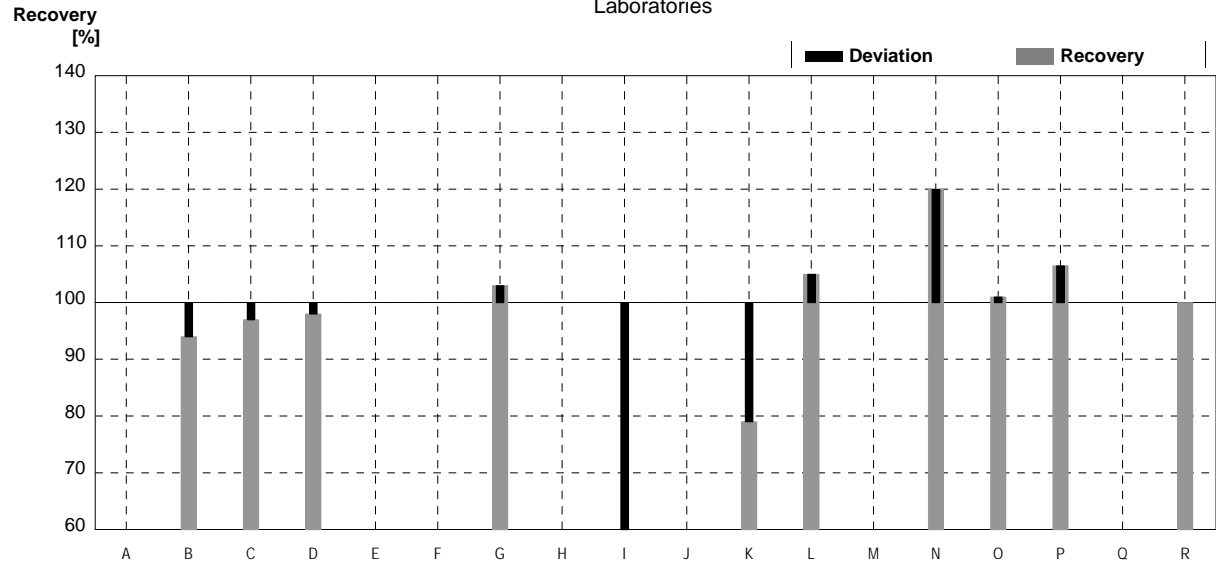
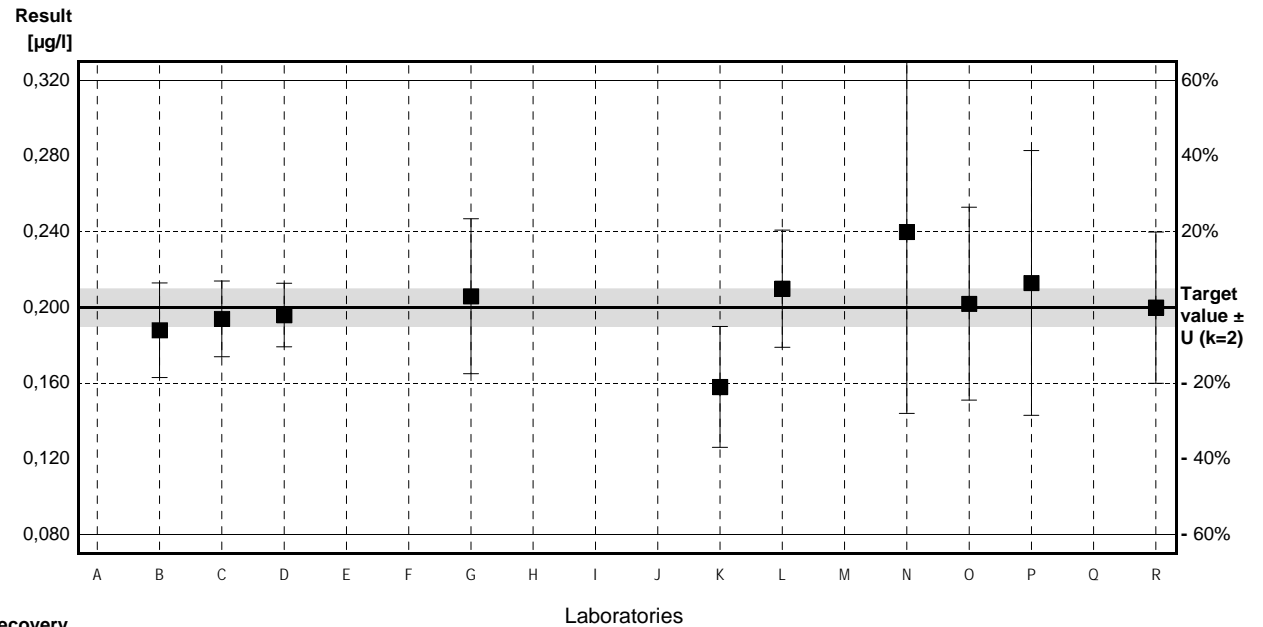
Target value ± U (k=2) 0,200 µg/l ± 0,010 µg/l

IFA result ± U (k=2) 0,201 µg/l ± 0,034 µg/l

Stability test ± U (k=2) 0,194 µg/l ± 0,033 µg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A			µg/l		
B	0,188	0,025	µg/l	94%	-0,46
C	0,194	0,02	µg/l	97%	-0,23
D	0,196	0,0168	µg/l	98%	-0,15
E			µg/l		
F			µg/l		
G	0,206	0,041	µg/l	103%	0,23
H	n.b.		µg/l		
I	0,054 *	0,024	µg/l	27%	-5,62
J			µg/l		
K	0,158	0,032	µg/l	79%	-1,62
L	0,210	0,031	µg/l	105%	0,38
M			µg/l		
N	0,240	0,096	µg/l	120%	1,54
O	0,202	0,051	µg/l	101%	0,08
P	0,213	0,07	µg/l	107%	0,50
Q			µg/l		
R	0,20	0,04	µg/l	100%	0,00

	All results	Outliers excl.	Unit
Mean ± CI(99%)	0,187 ± 0,046	0,201 ± 0,021	µg/l
Recov. ± CI(99%)	93,7 ± 23,1	100,4 ± 10,7	%
SD between labs	0,048	0,021	µg/l
RSD between labs	25,8	10,3	%
n for calculation	11	10	



Sample HA85A

Parameter Atrazine

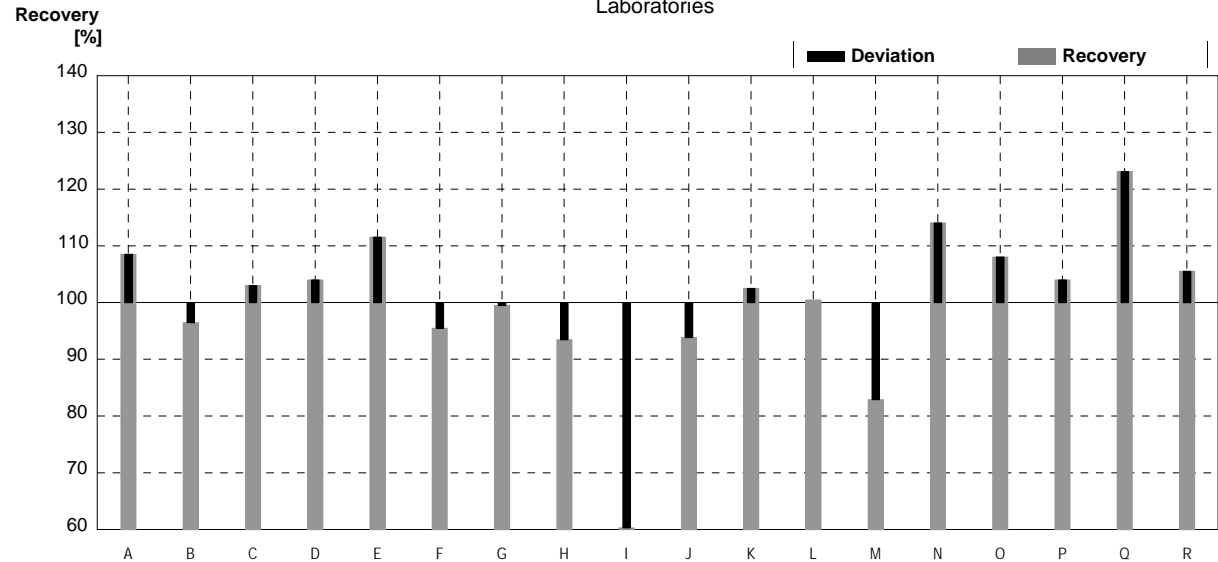
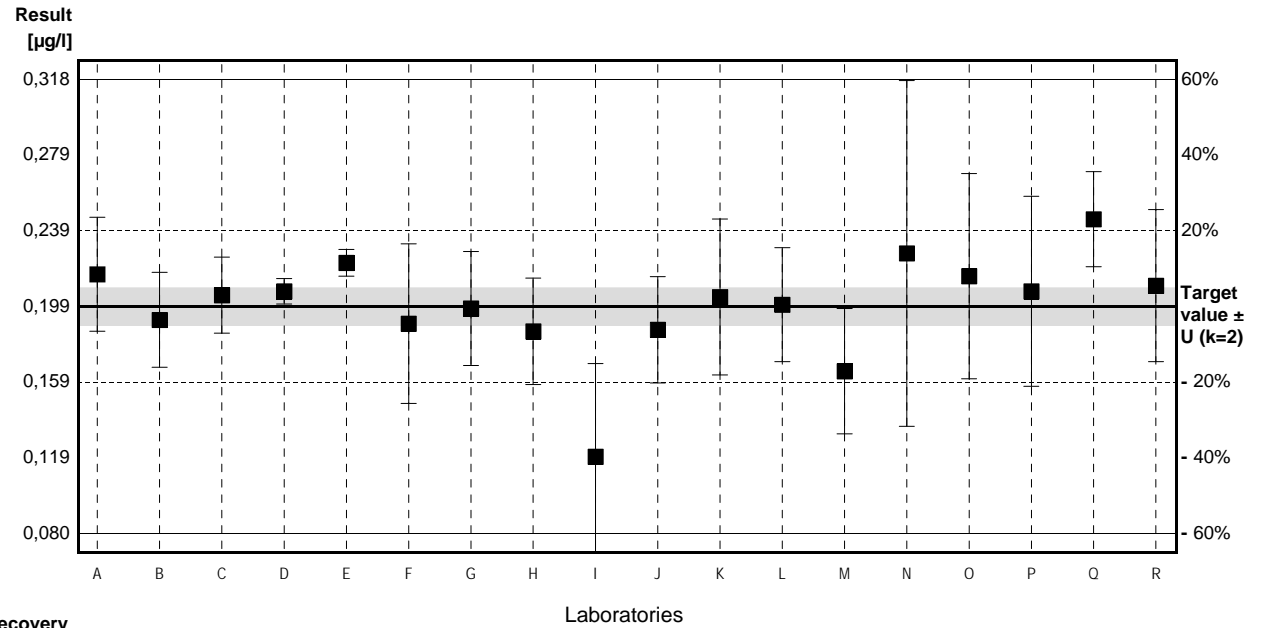
Target value ± U (k=2) 0,199 µg/l ± 0,010 µg/l

IFA result ± U (k=2) 0,199 µg/l ± 0,034 µg/l

Stability test ± U (k=2) 0,189 µg/l ± 0,032 µg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A	0,216	0,030	µg/l	109%	0,61
B	0,192	0,025	µg/l	96%	-0,25
C	0,205	0,02	µg/l	103%	0,22
D	0,207	0,0067	µg/l	104%	0,29
E	0,222	0,007	µg/l	112%	0,83
F	0,19	0,042	µg/l	95%	-0,32
G	0,198	0,030	µg/l	99%	-0,04
H	0,186	0,028	µg/l	93%	-0,47
I	0,120 *	0,049	µg/l	60%	-2,84
J	0,1868	0,0280	µg/l	94%	-0,44
K	0,204	0,041	µg/l	103%	0,18
L	0,200	0,030	µg/l	101%	0,04
M	0,165	0,033	µg/l	83%	-1,22
N	0,227	0,091	µg/l	114%	1,01
O	0,215	0,054	µg/l	108%	0,57
P	0,207	0,05	µg/l	104%	0,29
Q	0,245	0,025	µg/l	123%	1,65
R	0,21	0,04	µg/l	106%	0,39

	All results	Outliers excl.	Unit
Mean ± CI(99%)	0,200 ± 0,018	0,204 ± 0,013	µg/l
Recov. ± CI(99%)	100,4 ± 9,2	102,7 ± 6,5	%
SD between labs	0,027	0,018	µg/l
RSD between labs	13,4	9,0	%
n for calculation	18	17	



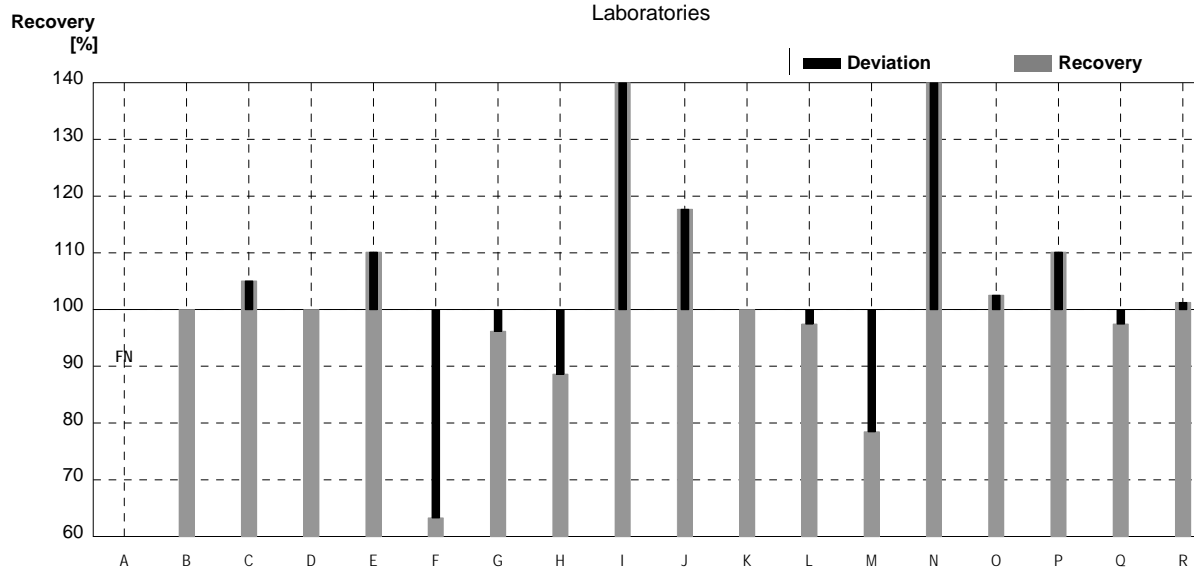
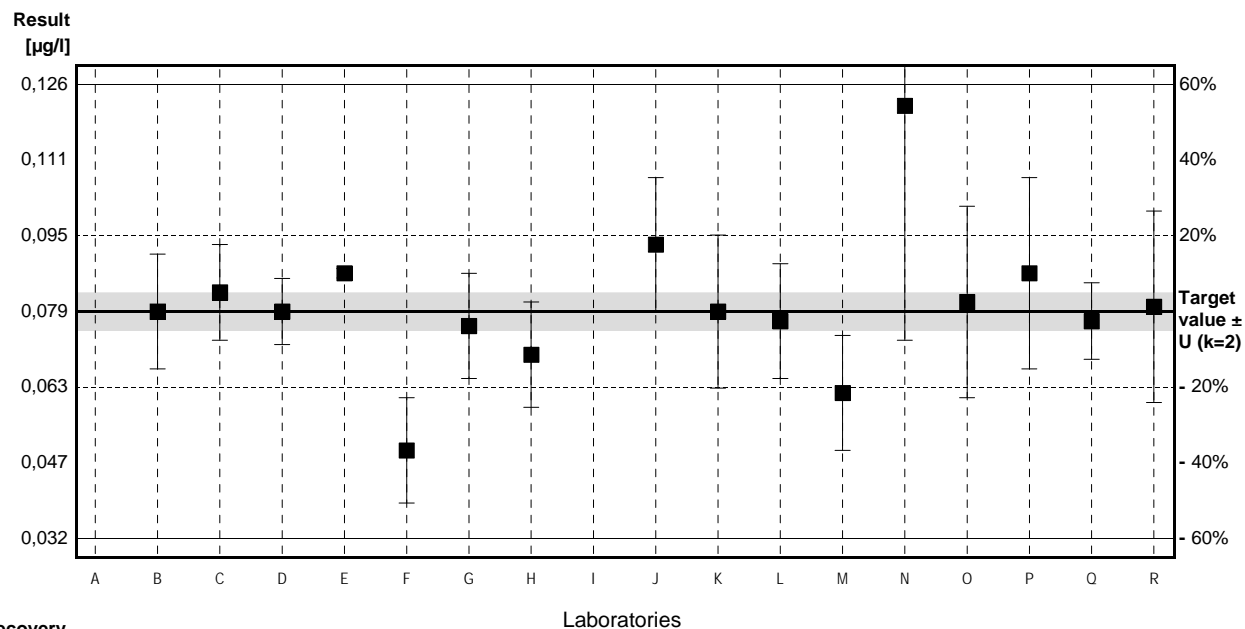
Sample HA85B

Parameter Atrazine

Target value $\pm U$ (k=2) 0,079 $\mu\text{g/l}$ \pm 0,004 $\mu\text{g/l}$
 IFA result $\pm U$ (k=2) 0,079 $\mu\text{g/l}$ \pm 0,013 $\mu\text{g/l}$
 Stability test $\pm U$ (k=2) 0,073 $\mu\text{g/l}$ \pm 0,012 $\mu\text{g/l}$

Lab Code	Result	\pm	Unit	Recovery	z-Score
A	<0,020		$\mu\text{g/l}$	FN	
B	0,079	0,012	$\mu\text{g/l}$	100%	0,00
C	0,083	0,01	$\mu\text{g/l}$	105%	0,36
D	0,079	0,0069	$\mu\text{g/l}$	100%	0,00
E	0,087	0,001	$\mu\text{g/l}$	110%	0,72
F	0,05 *	0,011	$\mu\text{g/l}$	63%	-2,62
G	0,076	0,011	$\mu\text{g/l}$	96%	-0,27
H	0,070	0,011	$\mu\text{g/l}$	89%	-0,81
I	0,247 *	0,099	$\mu\text{g/l}$	313%	15,19
J	0,0930	0,0140	$\mu\text{g/l}$	118%	1,27
K	0,079	0,016	$\mu\text{g/l}$	100%	0,00
L	0,077	0,012	$\mu\text{g/l}$	97%	-0,18
M	0,062	0,012	$\mu\text{g/l}$	78%	-1,54
N	0,122 *	0,049	$\mu\text{g/l}$	154%	3,89
O	0,081	0,020	$\mu\text{g/l}$	103%	0,18
P	0,087	0,02	$\mu\text{g/l}$	110%	0,72
Q	0,077	0,008	$\mu\text{g/l}$	97%	-0,18
R	0,08	0,02	$\mu\text{g/l}$	101%	0,09

	All results	Outliers excl.	Unit
Mean \pm CI(99%)	0,090 \pm 0,030	0,079 \pm 0,006	$\mu\text{g/l}$
Recov. \pm CI(99%)	113,8 \pm 38,6	100,4 \pm 7,6	%
SD between labs	0,043	0,007	$\mu\text{g/l}$
RSD between labs	47,8	9,5	%
n for calculation	17	14	

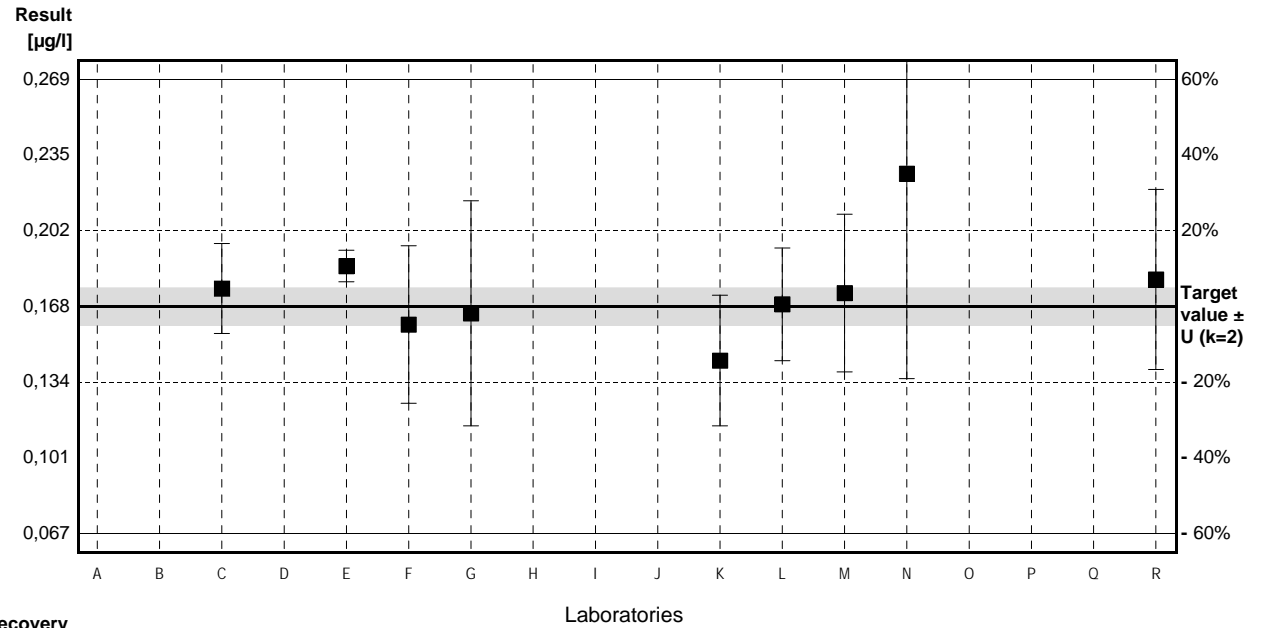


Sample HA85A

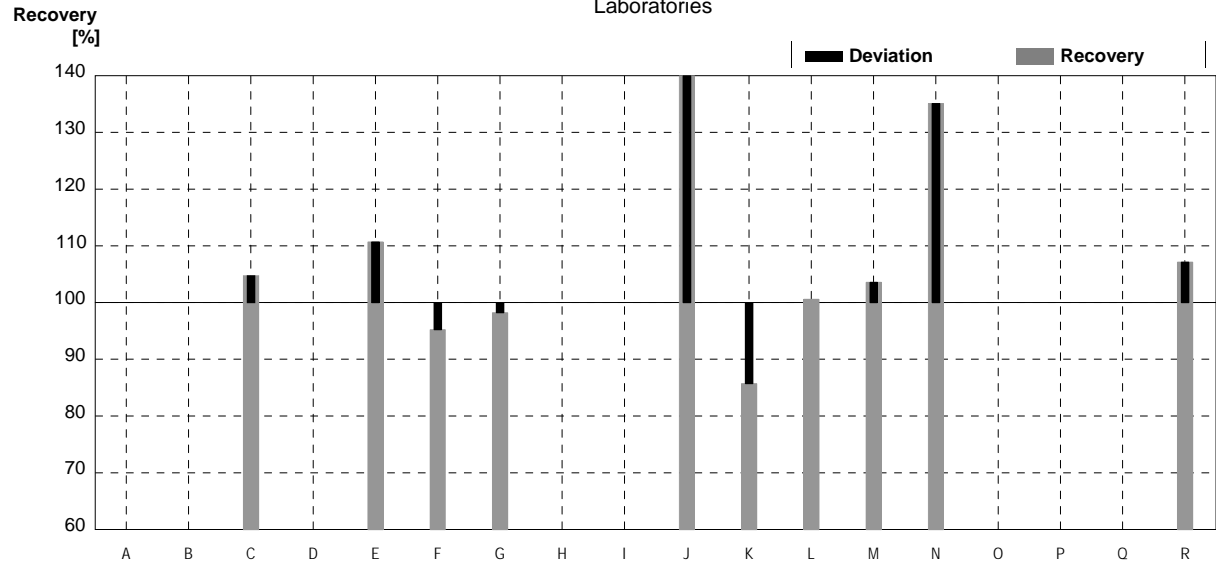
Parameter Bromacil

Target value $\pm U$ (k=2) 0,168 $\mu\text{g/l}$ \pm 0,008 $\mu\text{g/l}$
 IFA result $\pm U$ (k=2) 0,166 $\mu\text{g/l}$ \pm 0,033 $\mu\text{g/l}$
 Stability test $\pm U$ (k=2) 0,145 $\mu\text{g/l}$ \pm 0,029 $\mu\text{g/l}$

Lab Code	Result	\pm	Unit	Recovery	z-Score
A			$\mu\text{g/l}$		
B			$\mu\text{g/l}$		
C	0,176	0,02	$\mu\text{g/l}$	105%	0,34
D			$\mu\text{g/l}$		
E	0,186	0,007	$\mu\text{g/l}$	111%	0,77
F	0,16	0,035	$\mu\text{g/l}$	95%	-0,34
G	0,165	0,050	$\mu\text{g/l}$	98%	-0,13
H	n.b.		$\mu\text{g/l}$		
I			$\mu\text{g/l}$		
J	0,2730 *	0,0410	$\mu\text{g/l}$	163%	4,46
K	0,144	0,029	$\mu\text{g/l}$	86%	-1,02
L	0,169	0,025	$\mu\text{g/l}$	101%	0,04
M	0,174	0,035	$\mu\text{g/l}$	104%	0,26
N	0,227	0,091	$\mu\text{g/l}$	135%	2,51
O	NA		$\mu\text{g/l}$		
P			$\mu\text{g/l}$		
Q			$\mu\text{g/l}$		
R	0,18	0,04	$\mu\text{g/l}$	107%	0,51



	All results	Outliers excl.	Unit
Mean \pm CI(99%)	0,185 \pm 0,039	0,176 \pm 0,026	$\mu\text{g/l}$
Recov. \pm CI(99%)	110,4 \pm 23,2	104,6 \pm 15,2	%
SD between labs	0,038	0,023	$\mu\text{g/l}$
RSD between labs	20,3	13,0	%
n for calculation	10	9	

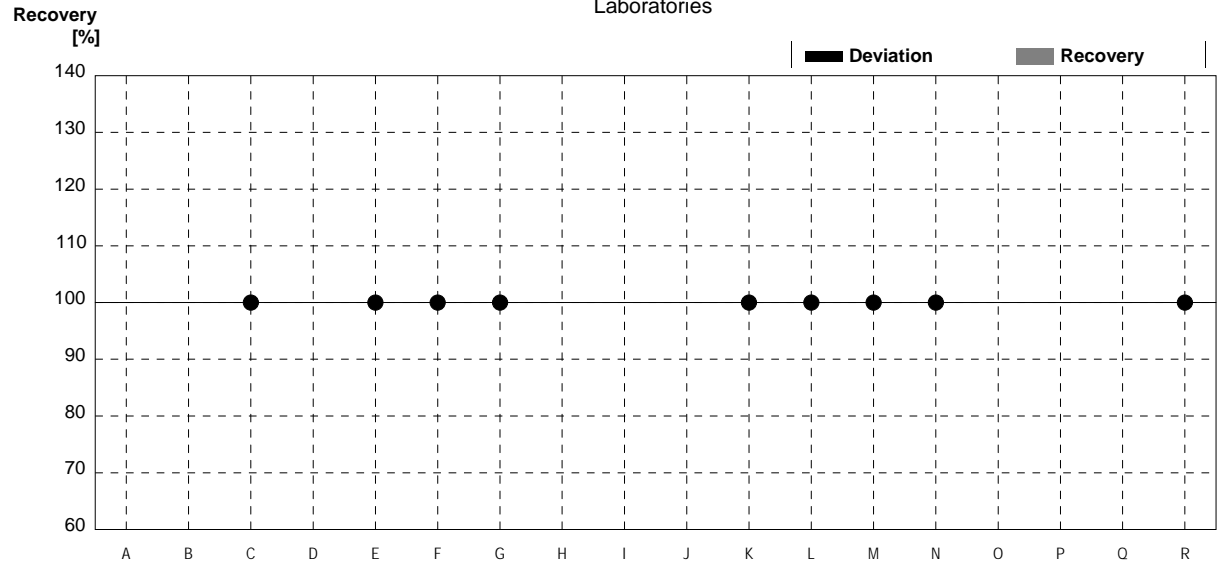
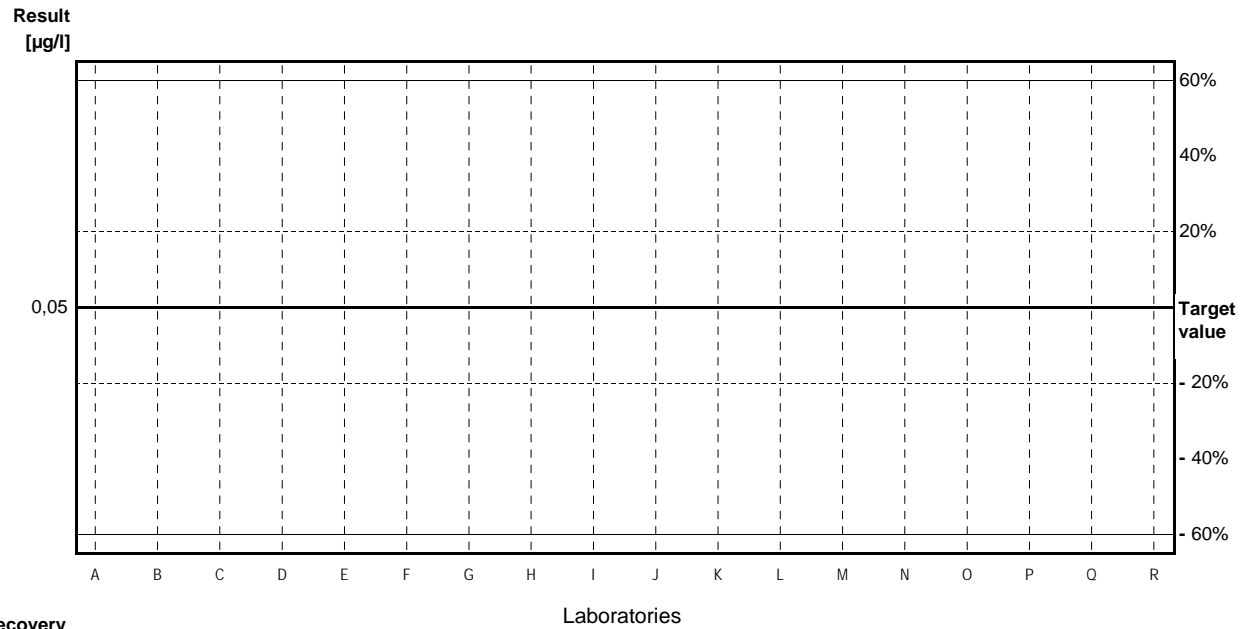


Sample HA85B

Parameter Bromacil

Target value <0,05 µg/l
 IFA result <0,01 µg/l
 Stability test <0,01 µg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A			µg/l		
B			µg/l		
C	<0,05		µg/l	•	
D			µg/l		
E	<0,010		µg/l	•	
F	<0,05		µg/l	•	
G	<0,030		µg/l	•	
H	n.b.		µg/l		
I			µg/l		
J			µg/l		
K	<0,01	0,002	µg/l	•	
L	<0,030		µg/l	•	
M	<0,010		µg/l	•	
N	<0,010	0,004	µg/l	•	
O	NA		µg/l		
P			µg/l		
Q			µg/l		
R	<0,02		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 HA85A

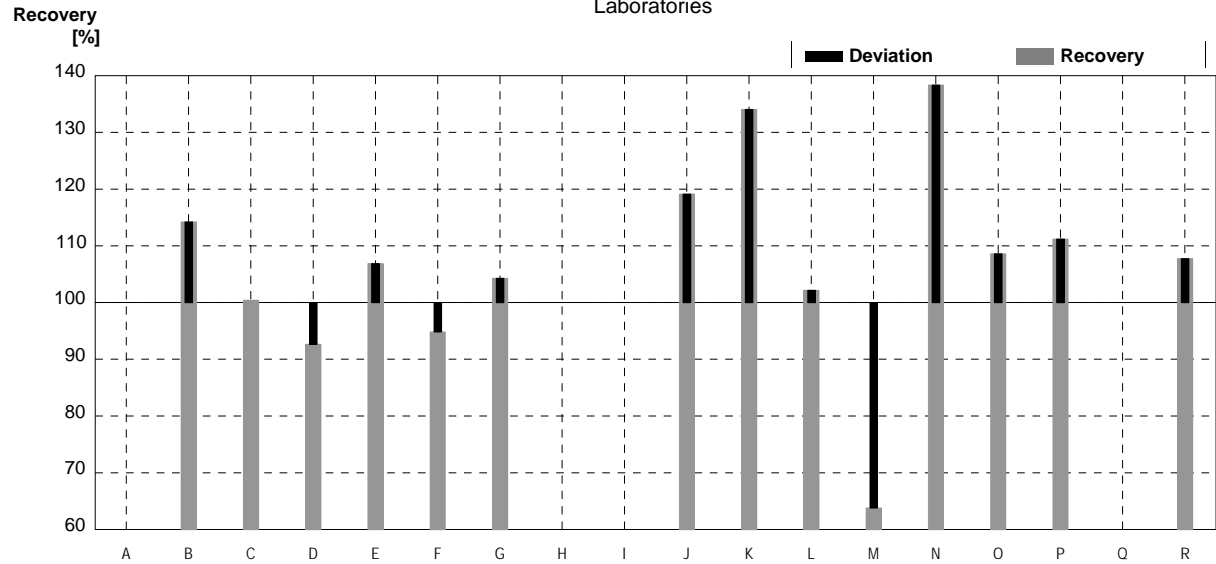
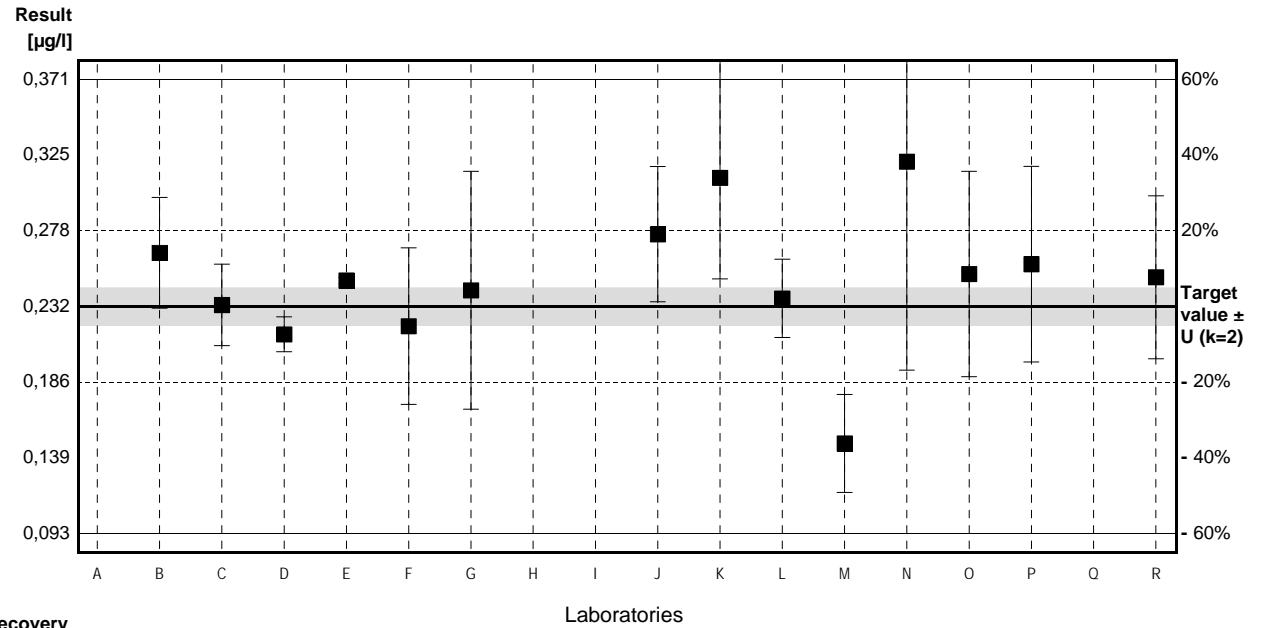
Parameter Cyanazine

Target value ± U (k=2) 0,232 µg/l ± 0,012 µg/l

IFA result ± U (k=2) 0,234 µg/l ± 0,044 µg/l

Stability test ± U (k=2) 0,229 µg/l ± 0,044 µg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A			µg/l		
B	0,265	0,034	µg/l	114%	1,02
C	0,233	0,025	µg/l	100%	0,03
D	0,215	0,0107	µg/l	93%	-0,52
E	0,248	0,002	µg/l	107%	0,49
F	0,22	0,048	µg/l	95%	-0,37
G	0,242	0,073	µg/l	104%	0,31
H	n.b.		µg/l		
I			µg/l		
J	0,2764	0,0415	µg/l	119%	1,37
K	0,311	0,062	µg/l	134%	2,43
L	0,237	0,024	µg/l	102%	0,15
M	0,148 *	0,030	µg/l	64%	-2,59
N	0,321	0,128	µg/l	138%	2,74
O	0,252	0,063	µg/l	109%	0,62
P	0,258	0,06	µg/l	111%	0,80
Q			µg/l		
R	0,25	0,05	µg/l	108%	0,55



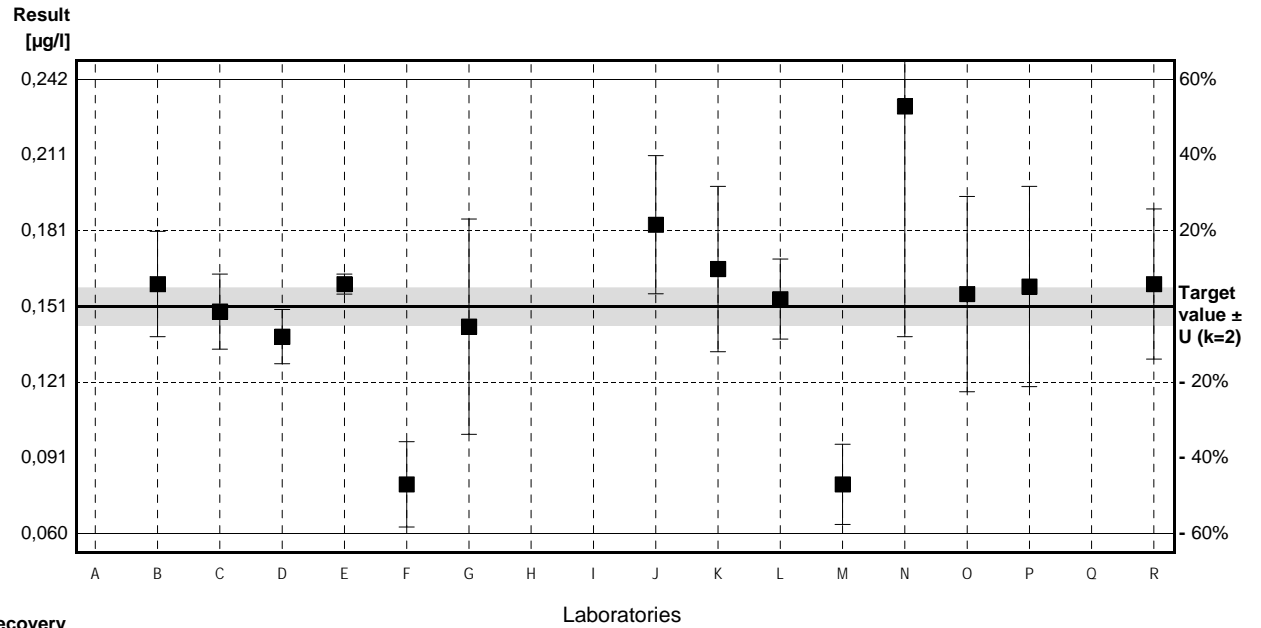
	All results	Outliers excl.	Unit
Mean ± CI(99%)	0,248 ± 0,034	0,256 ± 0,027	µg/l
Recov. ± CI(99%)	107,0 ± 14,5	110,4 ± 11,5	%
SD between labs	0,042	0,032	µg/l
RSD between labs	16,9	12,3	%
n for calculation	14	13	

Sample HA85B

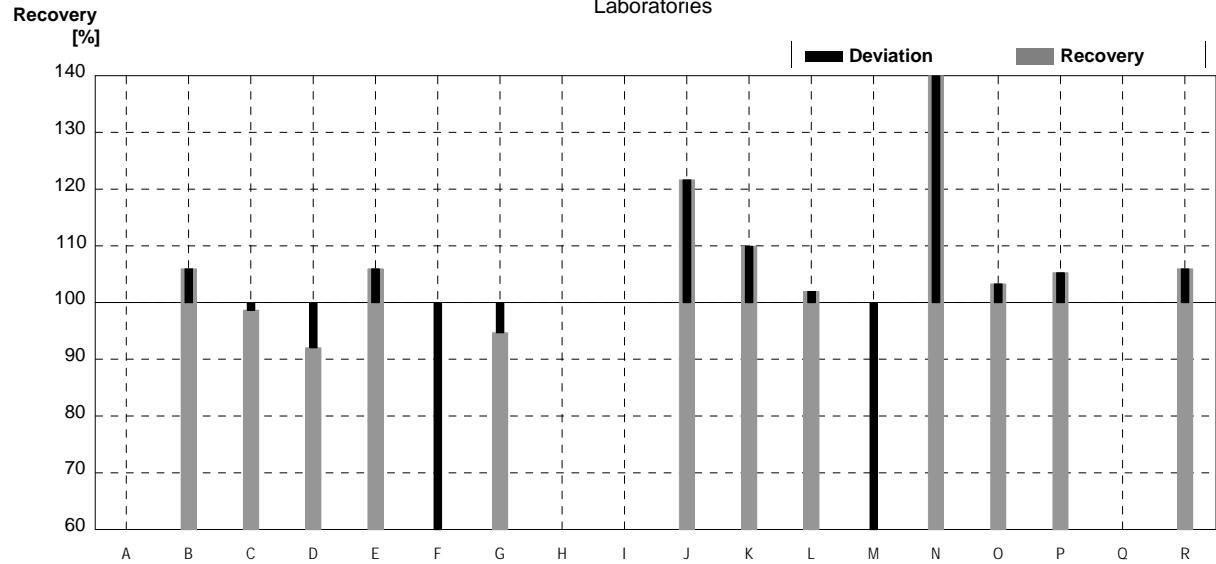
Parameter Cyanazine

Target value $\pm U$ (k=2) 0,151 $\mu\text{g/l}$ \pm 0,008 $\mu\text{g/l}$
 IFA result $\pm U$ (k=2) 0,146 $\mu\text{g/l}$ \pm 0,028 $\mu\text{g/l}$
 Stability test $\pm U$ (k=2) 0,142 $\mu\text{g/l}$ \pm 0,027 $\mu\text{g/l}$

Lab Code	Result	\pm	Unit	Recovery	z-Score
A			$\mu\text{g/l}$		
B	0,16	0,021	$\mu\text{g/l}$	106%	0,43
C	0,149	0,015	$\mu\text{g/l}$	99%	-0,09
D	0,139	0,0108	$\mu\text{g/l}$	92%	-0,57
E	0,160	0,004	$\mu\text{g/l}$	106%	0,43
F	0,08 *	0,017	$\mu\text{g/l}$	53%	-3,36
G	0,143	0,043	$\mu\text{g/l}$	95%	-0,38
H	n.b.		$\mu\text{g/l}$		
I			$\mu\text{g/l}$		
J	0,1837	0,0276	$\mu\text{g/l}$	122%	1,55
K	0,166	0,033	$\mu\text{g/l}$	110%	0,71
L	0,154	0,016	$\mu\text{g/l}$	102%	0,14
M	0,080 *	0,016	$\mu\text{g/l}$	53%	-3,36
N	0,231 *	0,092	$\mu\text{g/l}$	153%	3,78
O	0,156	0,039	$\mu\text{g/l}$	103%	0,24
P	0,159	0,04	$\mu\text{g/l}$	105%	0,38
Q			$\mu\text{g/l}$		
R	0,16	0,03	$\mu\text{g/l}$	106%	0,43



	All results	Outliers excl.	Unit
Mean \pm CI(99%)	0,151 \pm 0,030	0,157 \pm 0,011	$\mu\text{g/l}$
Recov. \pm CI(99%)	100,3 \pm 20,0	104,1 \pm 7,5	%
SD between labs	0,038	0,012	$\mu\text{g/l}$
RSD between labs	24,8	7,6	%
n for calculation	14	11	



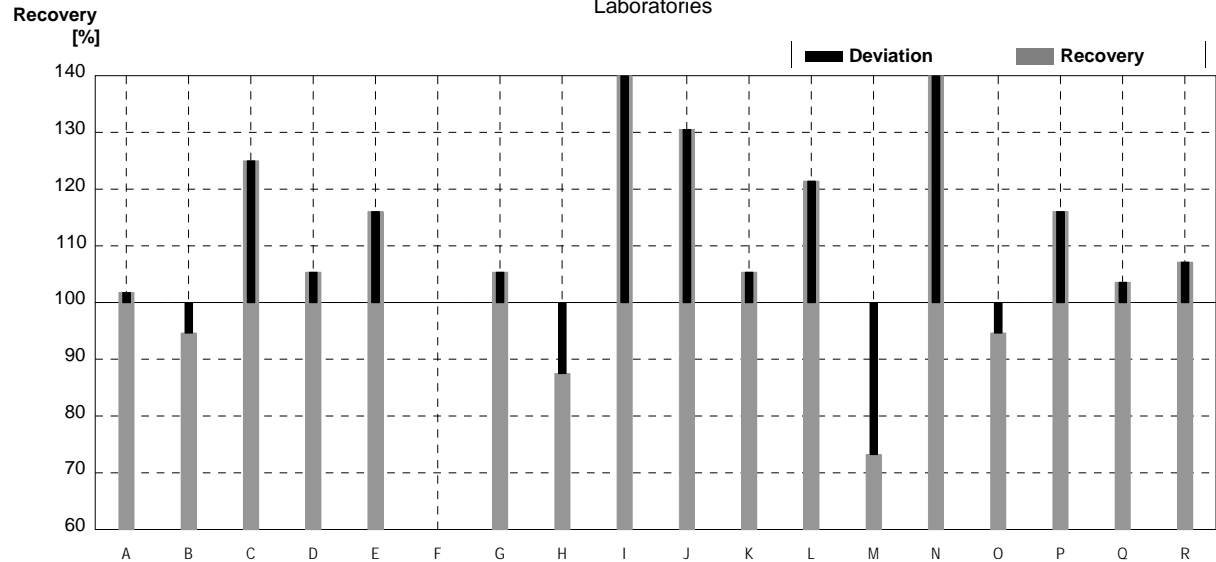
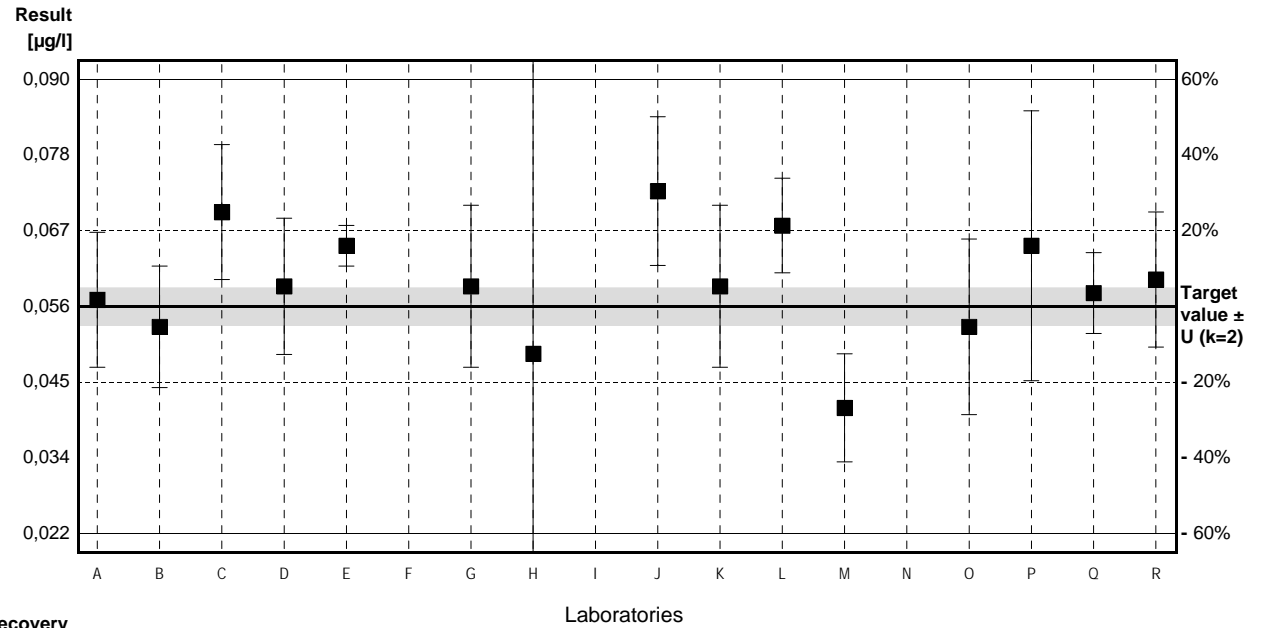
Sample HA85A

Parameter DEAtrazine

Target value ± U (k=2) 0,056 µg/l ± 0,003 µg/l
 IFA result ± U (k=2) 0,046 µg/l ± 0,005 µg/l
 Stability test ± U (k=2) 0,048 µg/l ± 0,005 µg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A	0,057	0,010	µg/l	102%	0,11
B	0,053	0,009	µg/l	95%	-0,33
C	0,070	0,01	µg/l	125%	1,56
D	0,059	0,0101	µg/l	105%	0,33
E	0,065	0,003	µg/l	116%	1,00
F			µg/l		
G	0,059	0,012	µg/l	105%	0,33
H	0,049	0,07	µg/l	88%	-0,78
I	0,233 *	0,093	µg/l	416%	19,75
J	0,0731	0,0110	µg/l	131%	1,91
K	0,059	0,012	µg/l	105%	0,33
L	0,068	0,007	µg/l	121%	1,34
M	0,041	0,008	µg/l	73%	-1,67
N	0,110 *	0,044	µg/l	196%	6,03
O	0,053	0,013	µg/l	95%	-0,33
P	0,065	0,02	µg/l	116%	1,00
Q	0,058	0,006	µg/l	104%	0,22
R	0,06	0,01	µg/l	107%	0,45

	All results	Outliers excl.	Unit
Mean ± CI(99%)	0,072 ± 0,031	0,059 ± 0,006	µg/l
Recov. ± CI(99%)	129,4 ± 55,5	105,8 ± 11,5	%
SD between labs	0,044	0,008	µg/l
RSD between labs	60,5	14,1	%
n for calculation	17	15	



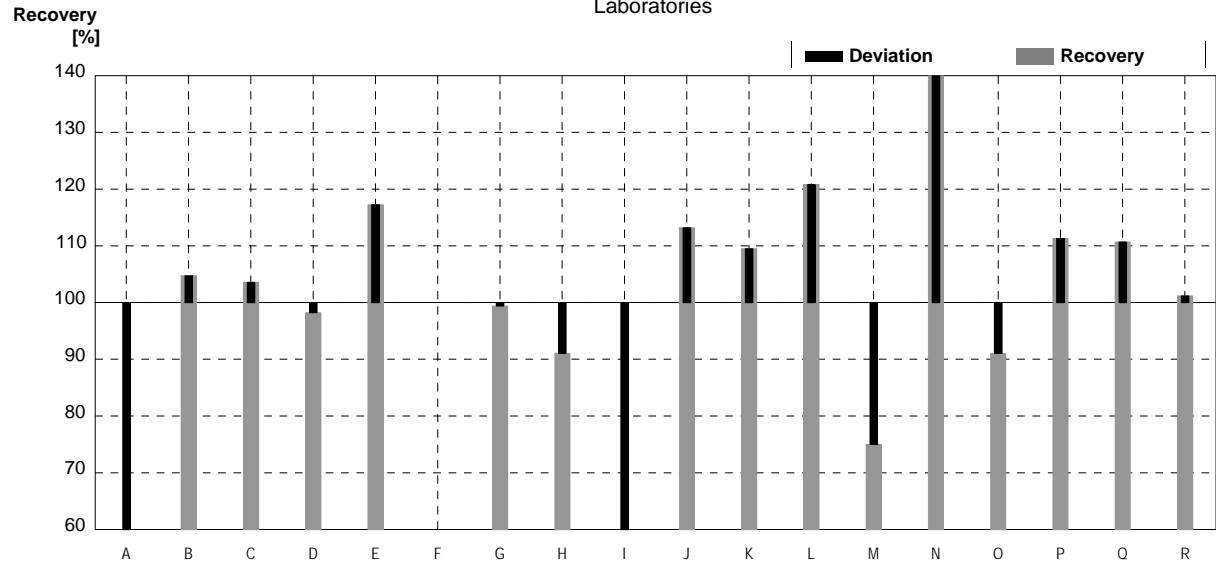
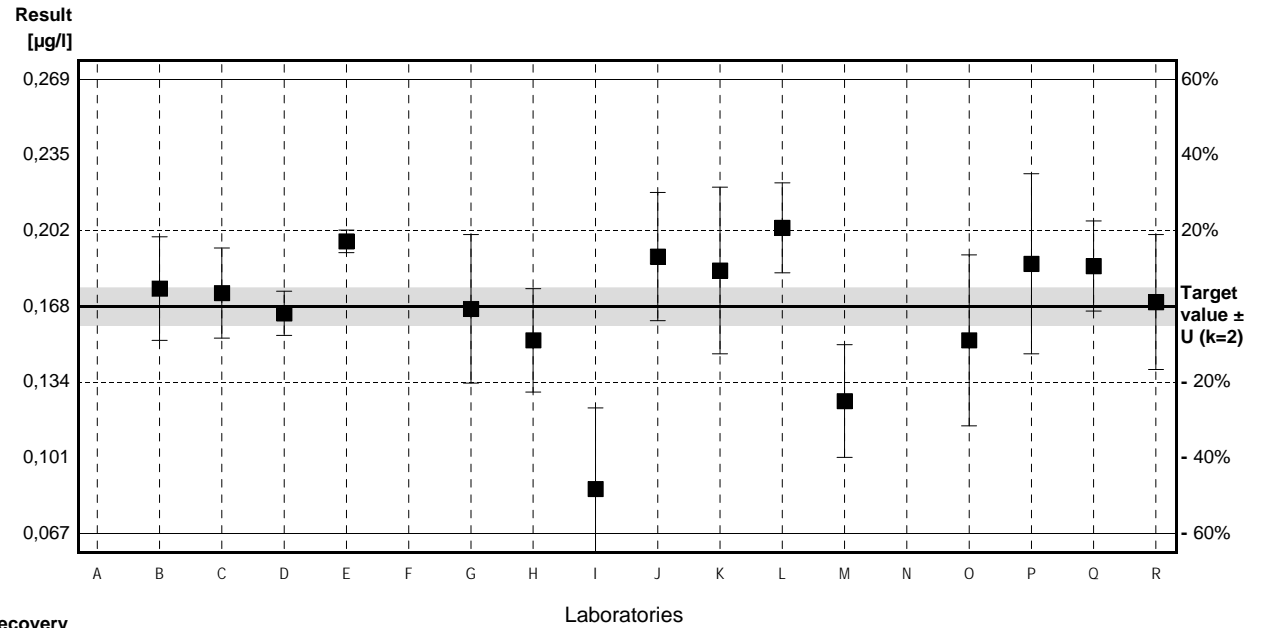
Sample HA85B

Parameter DEAtrazine

Target value $\pm U$ (k=2) 0,168 $\mu\text{g/l}$ \pm 0,008 $\mu\text{g/l}$
 IFA result $\pm U$ (k=2) 0,161 $\mu\text{g/l}$ \pm 0,016 $\mu\text{g/l}$
 Stability test $\pm U$ (k=2) 0,145 $\mu\text{g/l}$ \pm 0,015 $\mu\text{g/l}$

Lab Code	Result	\pm	Unit	Recovery	z-Score
A	0,024 *	0,004	$\mu\text{g/l}$	14%	-5,36
B	0,176	0,023	$\mu\text{g/l}$	105%	0,30
C	0,174	0,02	$\mu\text{g/l}$	104%	0,22
D	0,165	0,0098	$\mu\text{g/l}$	98%	-0,11
E	0,197	0,005	$\mu\text{g/l}$	117%	1,08
F			$\mu\text{g/l}$		
G	0,167	0,033	$\mu\text{g/l}$	99%	-0,04
H	0,153	0,023	$\mu\text{g/l}$	91%	-0,56
I	0,087 *	0,036	$\mu\text{g/l}$	52%	-3,01
J	0,1902	0,0285	$\mu\text{g/l}$	113%	0,83
K	0,184	0,037	$\mu\text{g/l}$	110%	0,60
L	0,203	0,020	$\mu\text{g/l}$	121%	1,30
M	0,126	0,025	$\mu\text{g/l}$	75%	-1,56
N	0,278 *	0,111	$\mu\text{g/l}$	165%	4,09
O	0,153	0,038	$\mu\text{g/l}$	91%	-0,56
P	0,187	0,04	$\mu\text{g/l}$	111%	0,71
Q	0,186	0,02	$\mu\text{g/l}$	111%	0,67
R	0,17	0,03	$\mu\text{g/l}$	101%	0,07

	All results	Outliers excl.	Unit
Mean \pm CI(99%)	0,166 \pm 0,038	0,174 \pm 0,016	$\mu\text{g/l}$
Recov. \pm CI(99%)	98,7 \pm 22,4	103,4 \pm 9,7	%
SD between labs	0,053	0,020	$\mu\text{g/l}$
RSD between labs	32,0	11,7	%
n for calculation	17	14	

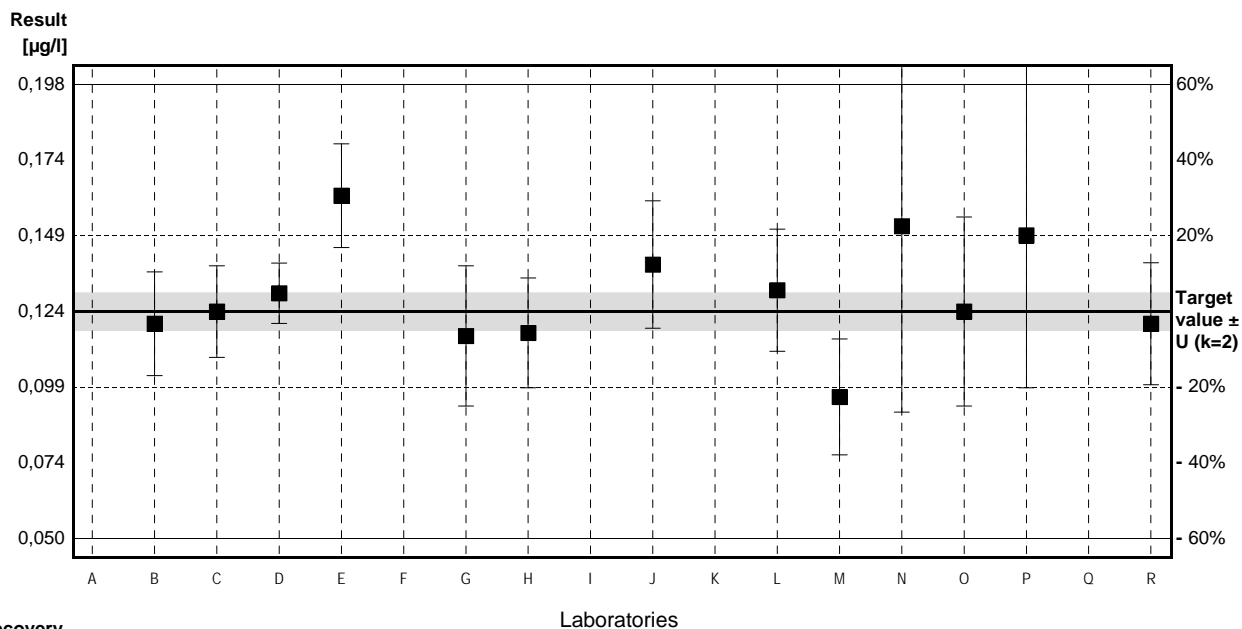


Sample HA85A

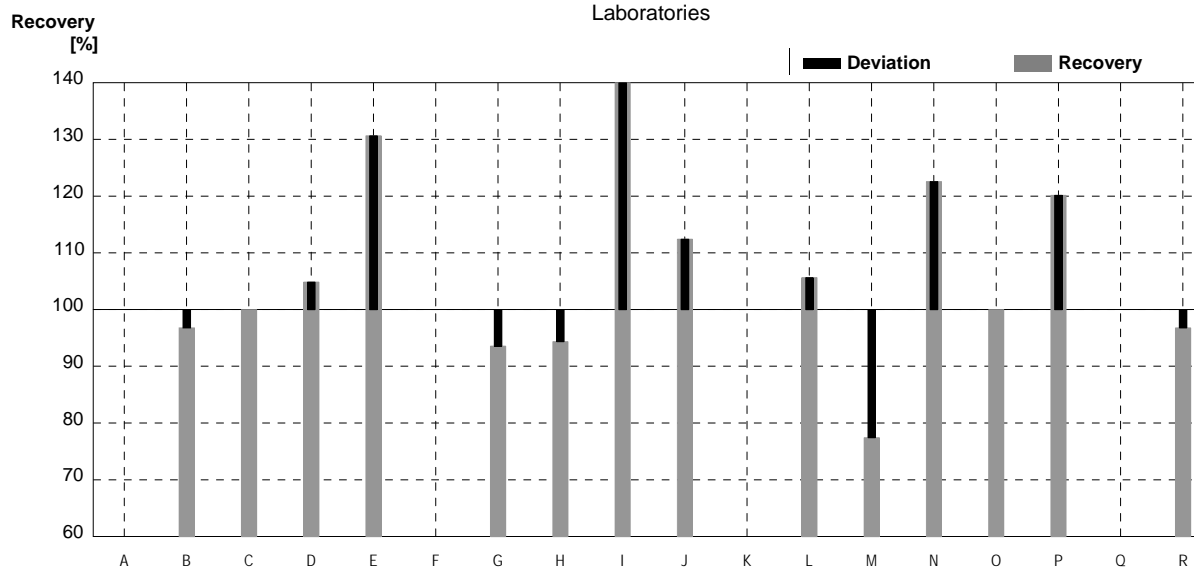
Parameter DETerbuthylazine

Target value ± U (k=2) 0,124 µg/l ± 0,006 µg/l
 IFA result ± U (k=2) 0,132 µg/l ± 0,020 µg/l
 Stability test ± U (k=2) 0,124 µg/l ± 0,019 µg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A			µg/l		
B	0,12	0,017	µg/l	97%	-0,23
C	0,124	0,015	µg/l	100%	0,00
D	0,130	0,0099	µg/l	105%	0,35
E	0,162	0,017	µg/l	131%	2,19
F			µg/l		
G	0,116	0,023	µg/l	94%	-0,46
H	0,117	0,018	µg/l	94%	-0,40
I	0,291 *	0,113	µg/l	235%	9,62
J	0,1394	0,0209	µg/l	112%	0,89
K			µg/l		
L	0,131	0,020	µg/l	106%	0,40
M	0,096	0,019	µg/l	77%	-1,61
N	0,152	0,061	µg/l	123%	1,61
O	0,124	0,031	µg/l	100%	0,00
P	0,149	0,05	µg/l	120%	1,44
Q			µg/l		
R	0,12	0,02	µg/l	97%	-0,23



	All results	Outliers excl.	Unit
Mean ± CI(99%)	0,141 ± 0,037	0,129 ± 0,015	µg/l
Recov. ± CI(99%)	113,6 ± 30,1	104,2 ± 12,1	%
SD between labs	0,046	0,018	µg/l
RSD between labs	33,0	13,7	%
n for calculation	14	13	

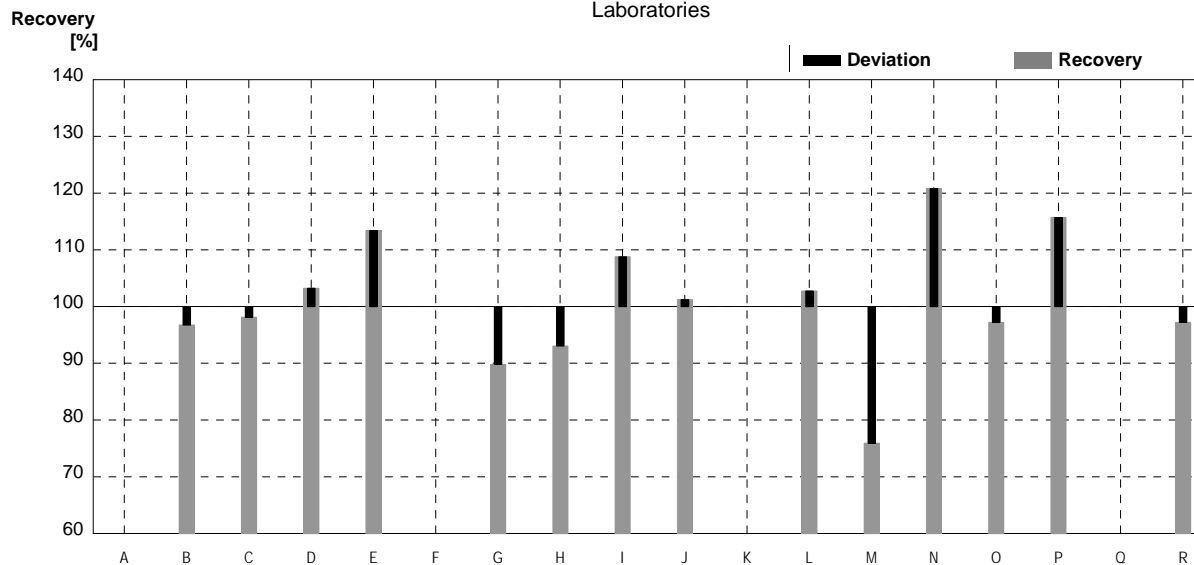
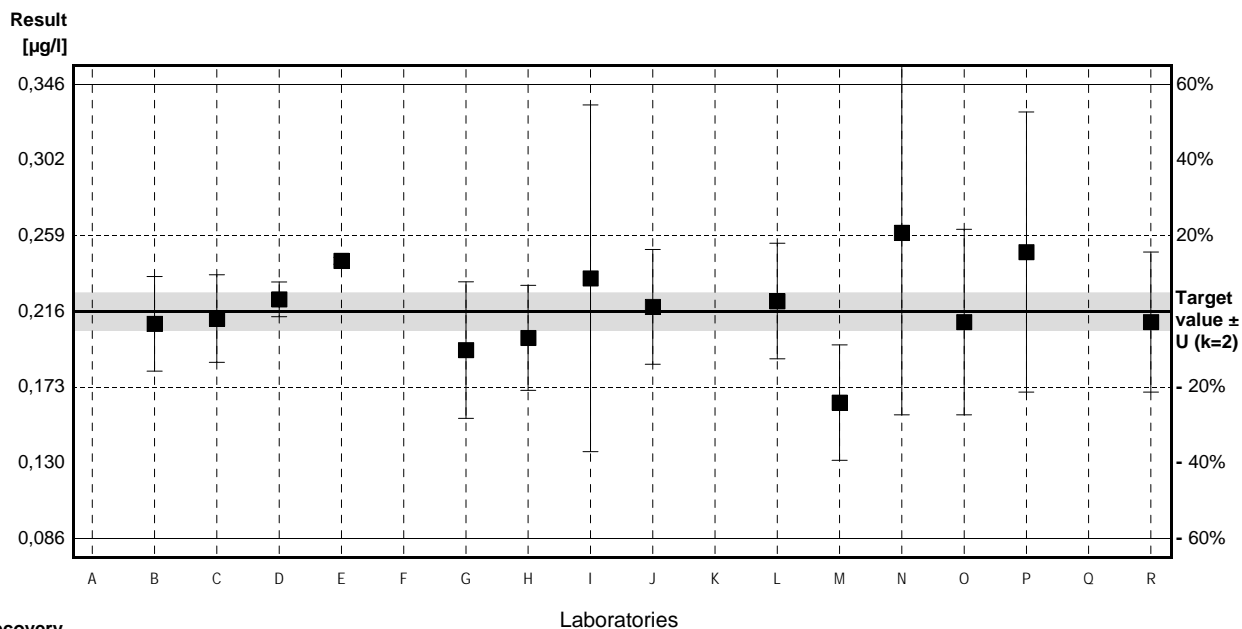


Sample HA85B

Parameter DETerbuthylazine

Target value ± U (k=2) 0,216 µg/l ± 0,011 µg/l
 IFA result ± U (k=2) 0,217 µg/l ± 0,033 µg/l
 Stability test ± U (k=2) 0,208 µg/l ± 0,031 µg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A			µg/l		
B	0,209	0,027	µg/l	97%	-0,23
C	0,212	0,025	µg/l	98%	-0,13
D	0,223	0,0099	µg/l	103%	0,23
E	0,245	0,002	µg/l	113%	0,96
F			µg/l		
G	0,194	0,039	µg/l	90%	-0,73
H	0,201	0,03	µg/l	93%	-0,50
I	0,235	0,099	µg/l	109%	0,63
J	0,2187	0,0328	µg/l	101%	0,09
K			µg/l		
L	0,222	0,033	µg/l	103%	0,20
M	0,164	0,033	µg/l	76%	-1,72
N	0,261	0,104	µg/l	121%	1,49
O	0,210	0,053	µg/l	97%	-0,20
P	0,250	0,08	µg/l	116%	1,12
Q			µg/l		
R	0,21	0,04	µg/l	97%	-0,20

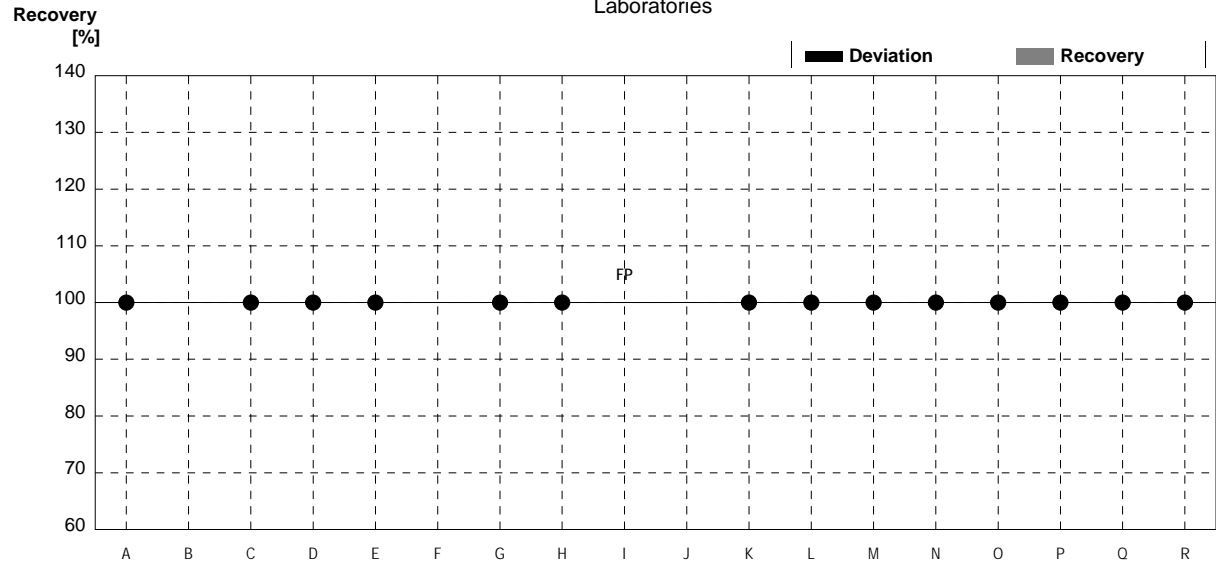
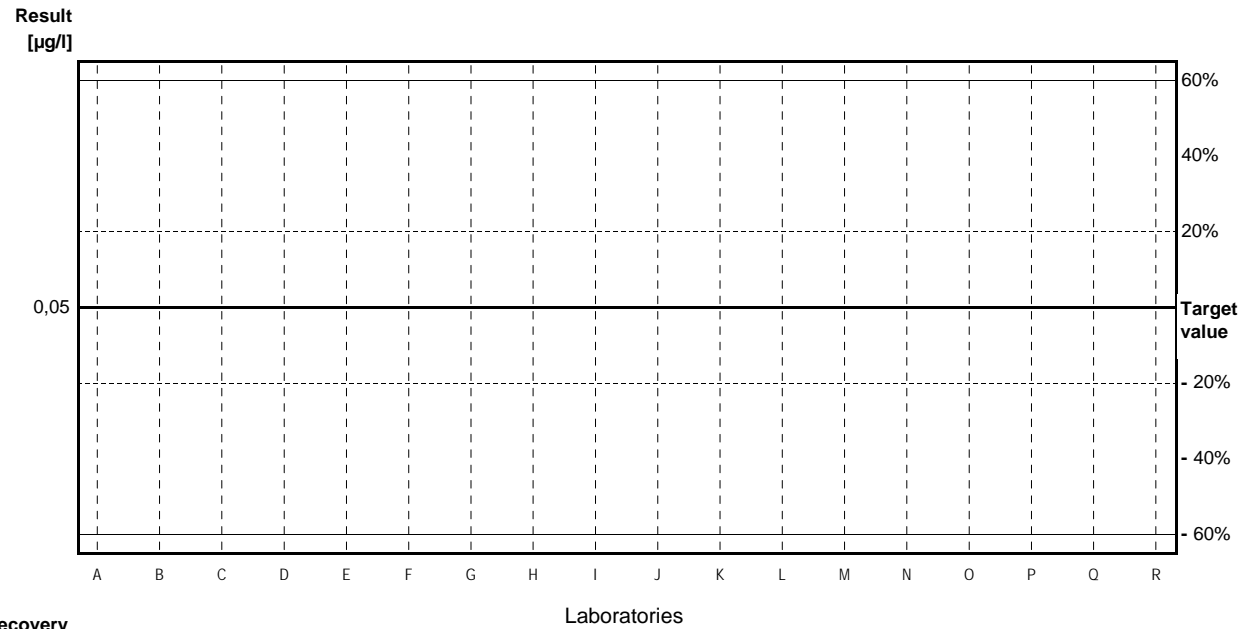


	All results	Outliers excl.	Unit
Mean ± CI(99%)	0,218 ± 0,020	0,218 ± 0,020	µg/l
Recov. ± CI(99%)	101,0 ± 9,2	101,0 ± 9,2	%
SD between labs	0,025	0,025	µg/l
RSD between labs	11,3	11,3	%
n for calculation	14	14	

Sample HA85A
Parameter DIAtrazine

Target value <0,05 µg/l
 IFA result <0,01 µg/l
 Stability test <0,01 µg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A	<0,020		µg/l	•	
B			µg/l		
C	<0,05		µg/l	•	
D	<0,03		µg/l	•	
E	<0,011		µg/l	•	
F			µg/l		
G	<0,030		µg/l	•	
H	<0,03		µg/l	•	
I	0,150	0,063	µg/l	FP	
J			µg/l		
K	0,025	0,005	µg/l	•	
L	<0,030		µg/l	•	
M	<0,010		µg/l	•	
N	<0,010	0,004	µg/l	•	
O	<0,02		µg/l	•	
P	<0,005	0,002	µg/l	•	
Q	<0,01		µg/l	•	
R	<0,02		µg/l	•	



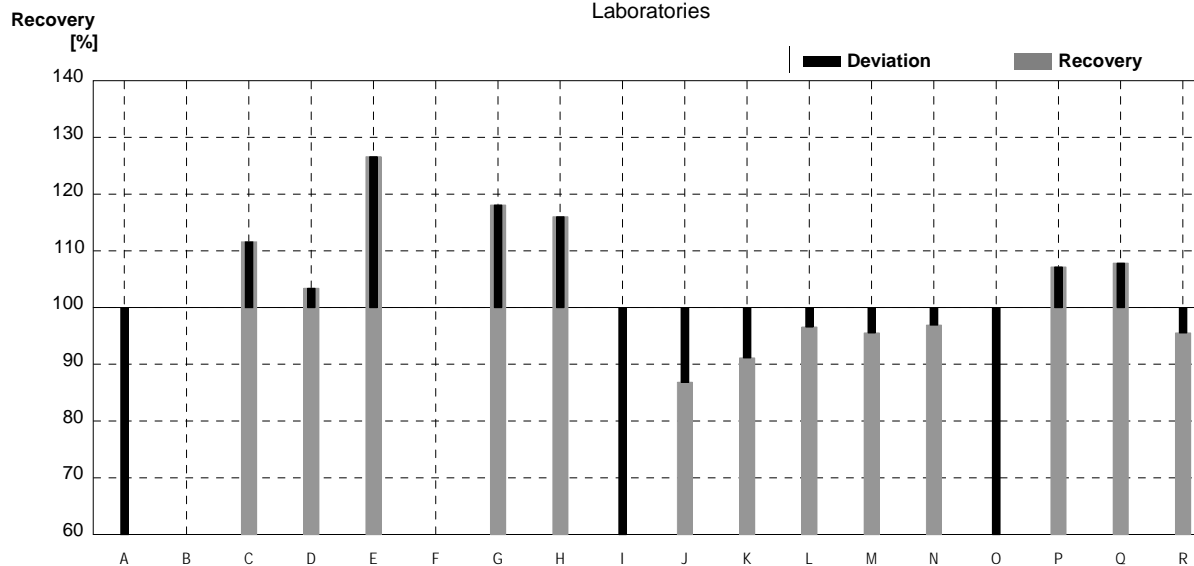
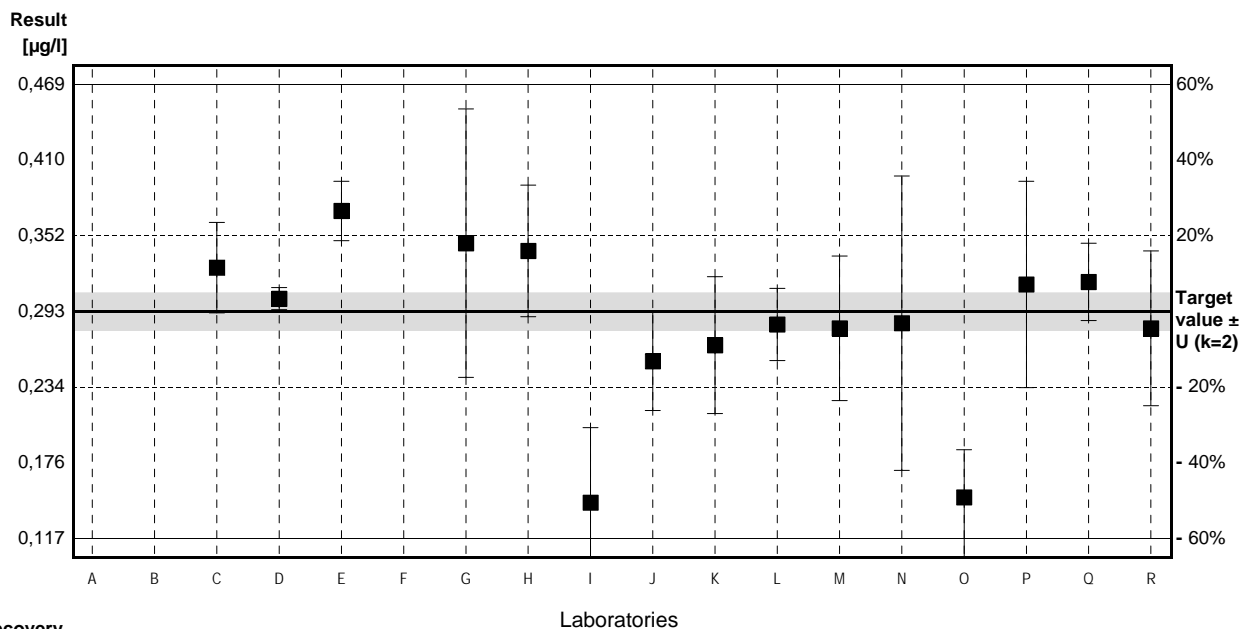
	All results	Outliers excl.	Unit
Mean ± CI(99%)			µg/l
Recov. ± CI(99%)			%
SD between labs			µg/l
RSD between labs			%
n for calculation			

Sample HA85B

Parameter DIAtrazine

Target value $\pm U$ (k=2) 0,293 $\mu\text{g/l}$ \pm 0,015 $\mu\text{g/l}$
 IFA result $\pm U$ (k=2) 0,279 $\mu\text{g/l}$ \pm 0,022 $\mu\text{g/l}$
 Stability test $\pm U$ (k=2) 0,262 $\mu\text{g/l}$ \pm 0,021 $\mu\text{g/l}$

Lab Code	Result	\pm	Unit	Recovery	z-Score
A	0,048 *	0,010	$\mu\text{g/l}$	16%	-4,92
B			$\mu\text{g/l}$		
C	0,327	0,035	$\mu\text{g/l}$	112%	0,68
D	0,303	0,0086	$\mu\text{g/l}$	103%	0,20
E	0,371	0,023	$\mu\text{g/l}$	127%	1,57
F			$\mu\text{g/l}$		
G	0,346	0,104	$\mu\text{g/l}$	118%	1,06
H	0,340	0,051	$\mu\text{g/l}$	116%	0,94
I	0,145	0,058	$\mu\text{g/l}$	49%	-2,97
J	0,2545	0,0382	$\mu\text{g/l}$	87%	-0,77
K	0,267	0,053	$\mu\text{g/l}$	91%	-0,52
L	0,283	0,028	$\mu\text{g/l}$	97%	-0,20
M	0,280	0,056	$\mu\text{g/l}$	96%	-0,26
N	0,284	0,114	$\mu\text{g/l}$	97%	-0,18
O	0,149	0,037	$\mu\text{g/l}$	51%	-2,89
P	0,314	0,08	$\mu\text{g/l}$	107%	0,42
Q	0,316	0,03	$\mu\text{g/l}$	108%	0,46
R	0,28	0,06	$\mu\text{g/l}$	96%	-0,26



	All results	Outliers excl.	Unit
Mean \pm CI(99%)	0,269 \pm 0,063	0,284 \pm 0,049	$\mu\text{g/l}$
Recov. \pm CI(99%)	91,9 \pm 21,5	96,9 \pm 16,8	%
SD between labs	0,085	0,064	$\mu\text{g/l}$
RSD between labs	31,8	22,6	%
n for calculation	16	15	

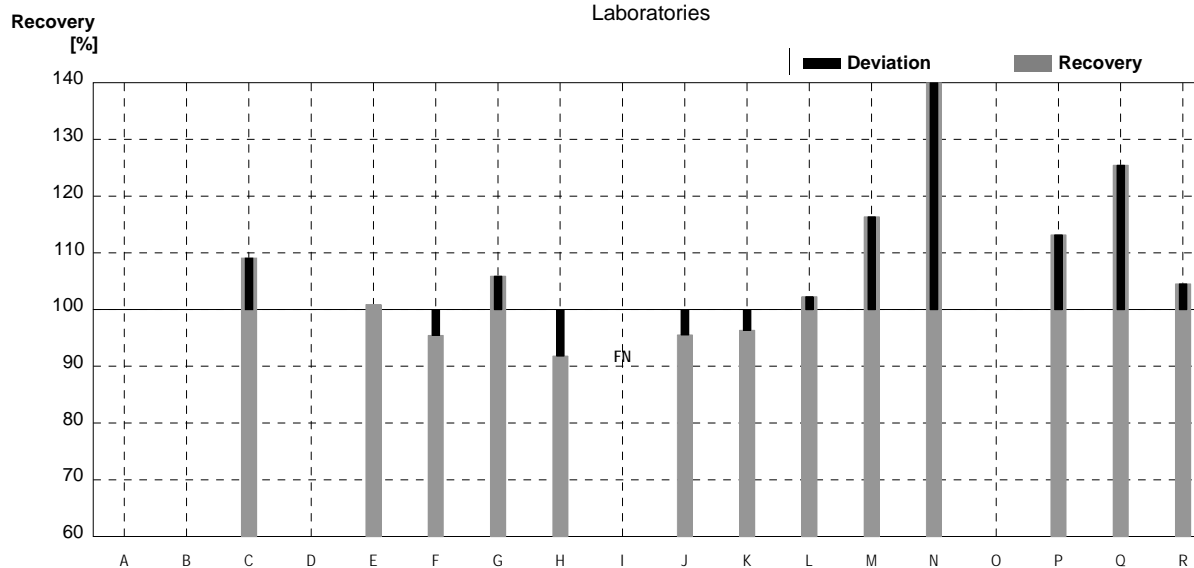
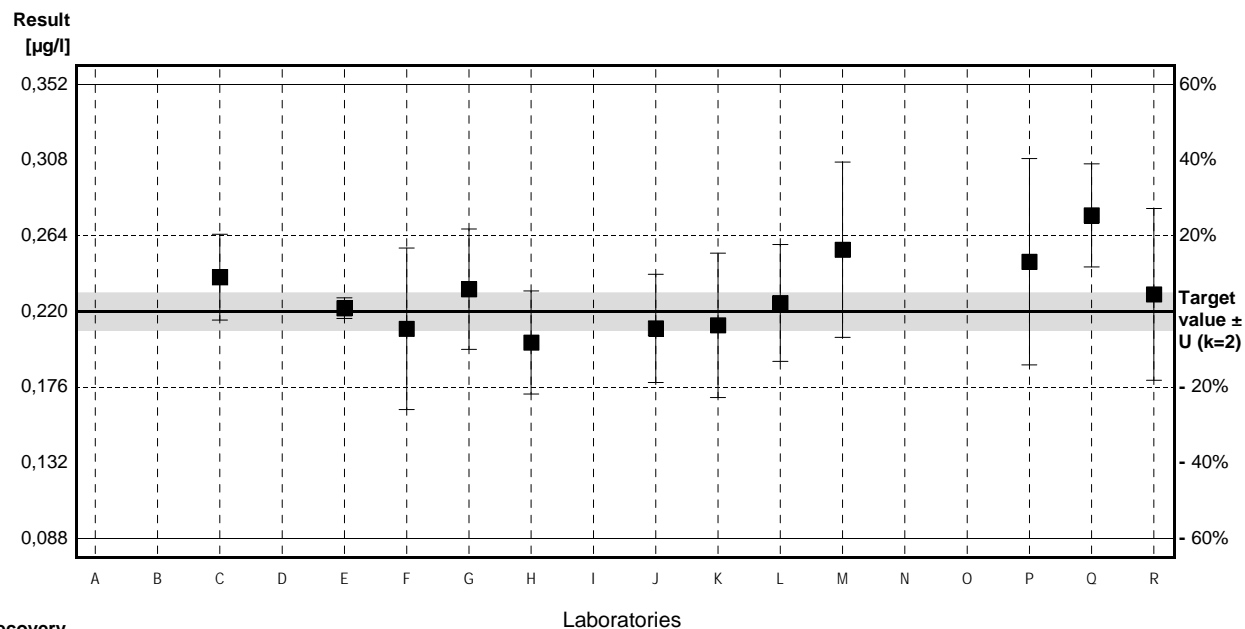
Sample HA85A

Parameter Diuron

Target value $\pm U$ (k=2) 0,220 $\mu\text{g/l}$ \pm 0,011 $\mu\text{g/l}$
 IFA result $\pm U$ (k=2) 0,215 $\mu\text{g/l}$ \pm 0,043 $\mu\text{g/l}$
 Stability test $\pm U$ (k=2) 0,207 $\mu\text{g/l}$ \pm 0,041 $\mu\text{g/l}$

Lab Code	Result	\pm	Unit	Recovery	z-Score
A			$\mu\text{g/l}$		
B			$\mu\text{g/l}$		
C	0,240	0,025	$\mu\text{g/l}$	109%	0,70
D			$\mu\text{g/l}$		
E	0,222	0,006	$\mu\text{g/l}$	101%	0,07
F	0,21	0,047	$\mu\text{g/l}$	95%	-0,35
G	0,233	0,035	$\mu\text{g/l}$	106%	0,45
H	0,202	0,03	$\mu\text{g/l}$	92%	-0,63
I	<0,002		$\mu\text{g/l}$	FN	
J	0,2102	0,0315	$\mu\text{g/l}$	96%	-0,34
K	0,212	0,042	$\mu\text{g/l}$	96%	-0,28
L	0,225	0,034	$\mu\text{g/l}$	102%	0,17
M	0,256	0,051	$\mu\text{g/l}$	116%	1,26
N	0,356 *	0,142	$\mu\text{g/l}$	162%	4,76
O	NA		$\mu\text{g/l}$		
P	0,249	0,06	$\mu\text{g/l}$	113%	1,01
Q	0,276	0,03	$\mu\text{g/l}$	125%	1,96
R	0,23	0,05	$\mu\text{g/l}$	105%	0,35

	All results	Outliers excl.	Unit
Mean \pm CI(99%)	0,240 \pm 0,034	0,230 \pm 0,020	$\mu\text{g/l}$
Recov. \pm CI(99%)	109,1 \pm 15,6	104,7 \pm 8,9	%
SD between labs	0,041	0,022	$\mu\text{g/l}$
RSD between labs	16,9	9,5	%
n for calculation	13	12	



Sample HA85B

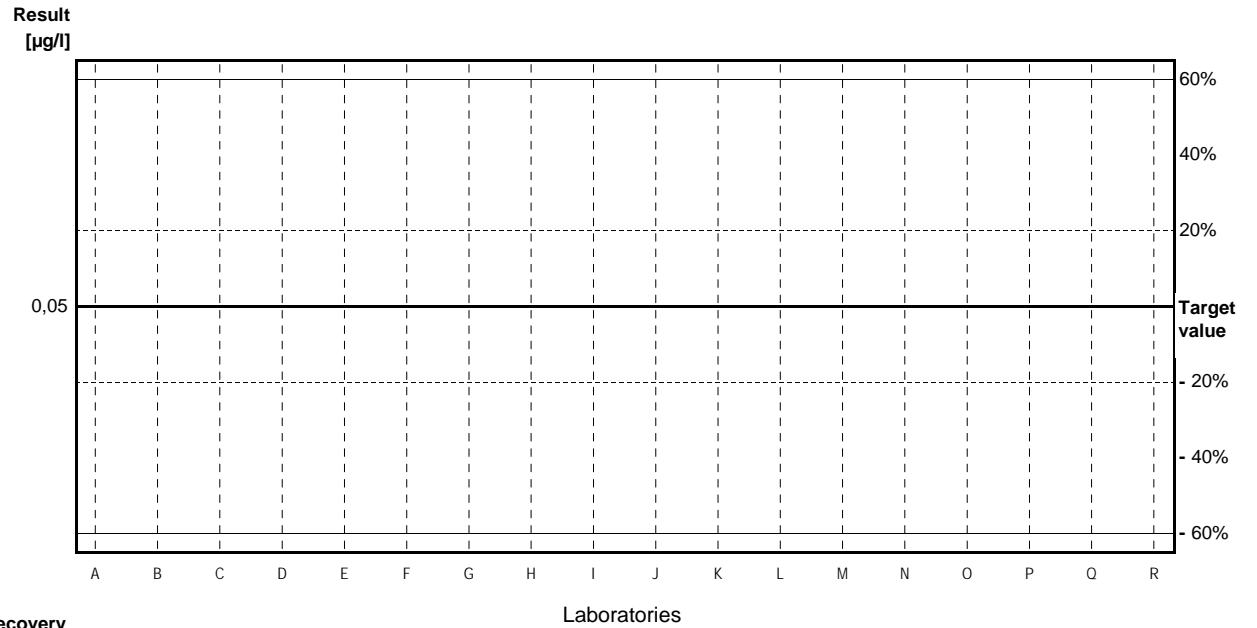
Parameter Diuron

Target value <0,05 µg/l

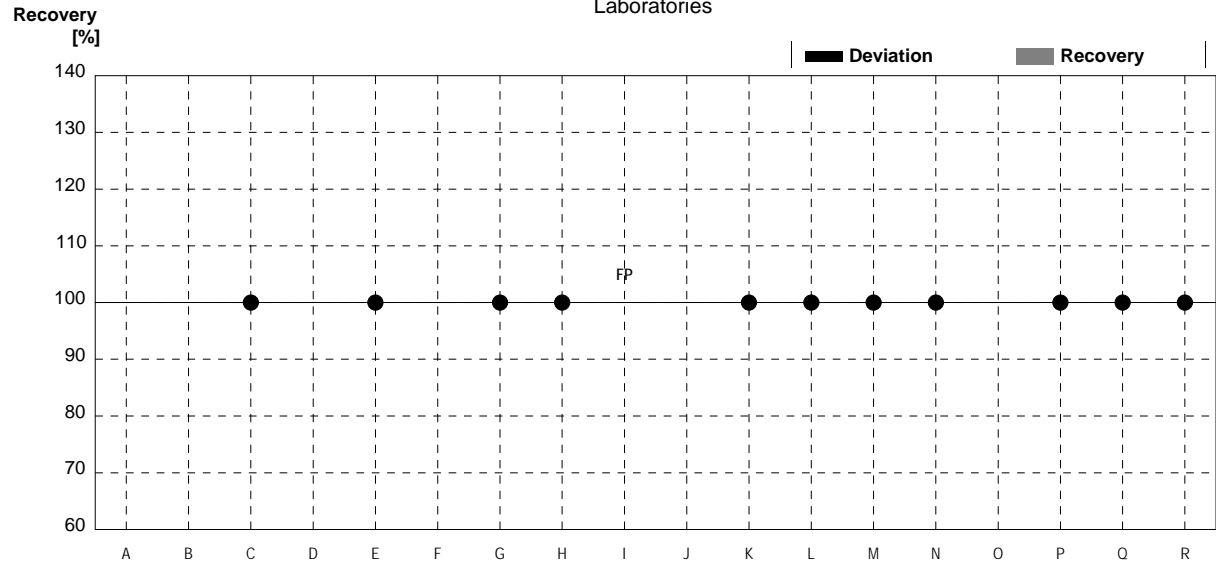
IFA result <0,01 µg/l

Stability test <0,01 µg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A			µg/l		
B			µg/l		
C	<0,05		µg/l	•	
D			µg/l		
E	<0,009		µg/l	•	
F			µg/l		
G	<0,020		µg/l	•	
H	<0,03		µg/l	•	
I	0,244	0,102	µg/l	FP	
J			µg/l		
K	<0,01	0,002	µg/l	•	
L	<0,030		µg/l	•	
M	<0,010		µg/l	•	
N	<0,010	0,004	µg/l	•	
O	NA		µg/l		
P	<0,010	0,003	µg/l	•	
Q	<0,02		µg/l	•	
R	<0,02		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			

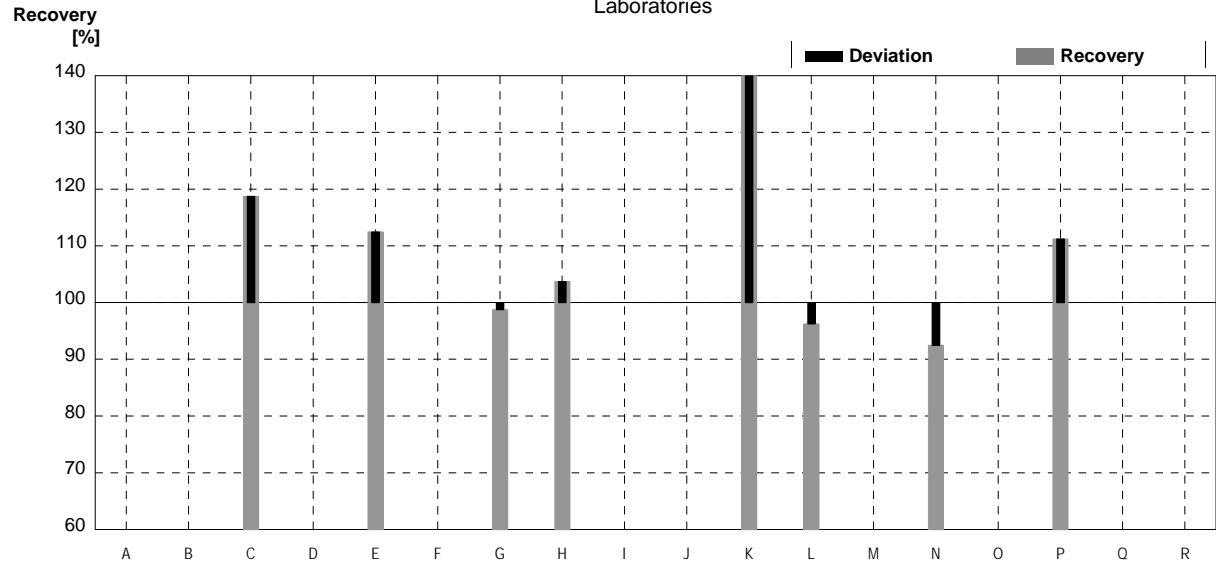
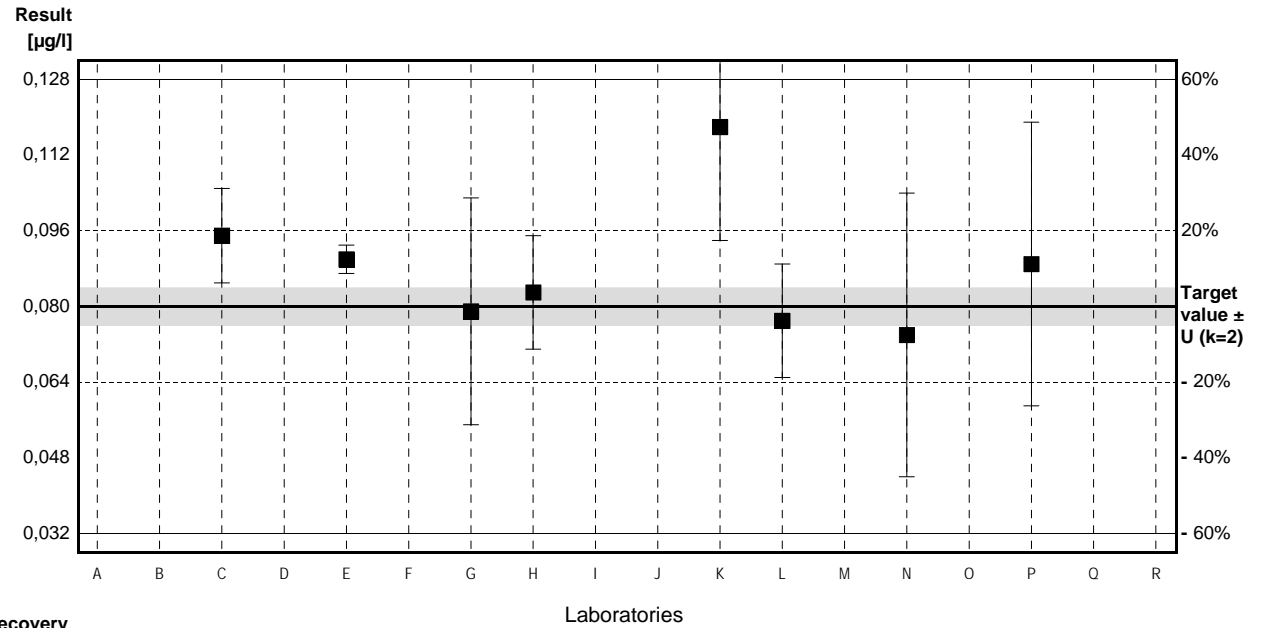


Sample HA85A

Parameter Hexazinone

Target value $\pm U$ (k=2) 0,080 $\mu\text{g/l}$ \pm 0,004 $\mu\text{g/l}$
 IFA result $\pm U$ (k=2) 0,094 $\mu\text{g/l}$ \pm 0,013 $\mu\text{g/l}$
 Stability test $\pm U$ (k=2) 0,089 $\mu\text{g/l}$ \pm 0,012 $\mu\text{g/l}$

Lab Code	Result	\pm	Unit	Recovery	z-Score
A			$\mu\text{g/l}$		
B			$\mu\text{g/l}$		
C	0,095	0,01	$\mu\text{g/l}$	119%	1,10
D			$\mu\text{g/l}$		
E	0,090	0,003	$\mu\text{g/l}$	113%	0,74
F			$\mu\text{g/l}$		
G	0,079	0,024	$\mu\text{g/l}$	99%	-0,07
H	0,083	0,012	$\mu\text{g/l}$	104%	0,22
I			$\mu\text{g/l}$		
J			$\mu\text{g/l}$		
K	0,118	0,024	$\mu\text{g/l}$	148%	2,79
L	0,077	0,012	$\mu\text{g/l}$	96%	-0,22
M			$\mu\text{g/l}$		
N	0,074	0,030	$\mu\text{g/l}$	93%	-0,44
O	NA		$\mu\text{g/l}$		
P	0,089	0,03	$\mu\text{g/l}$	111%	0,66
Q			$\mu\text{g/l}$		
R			$\mu\text{g/l}$		



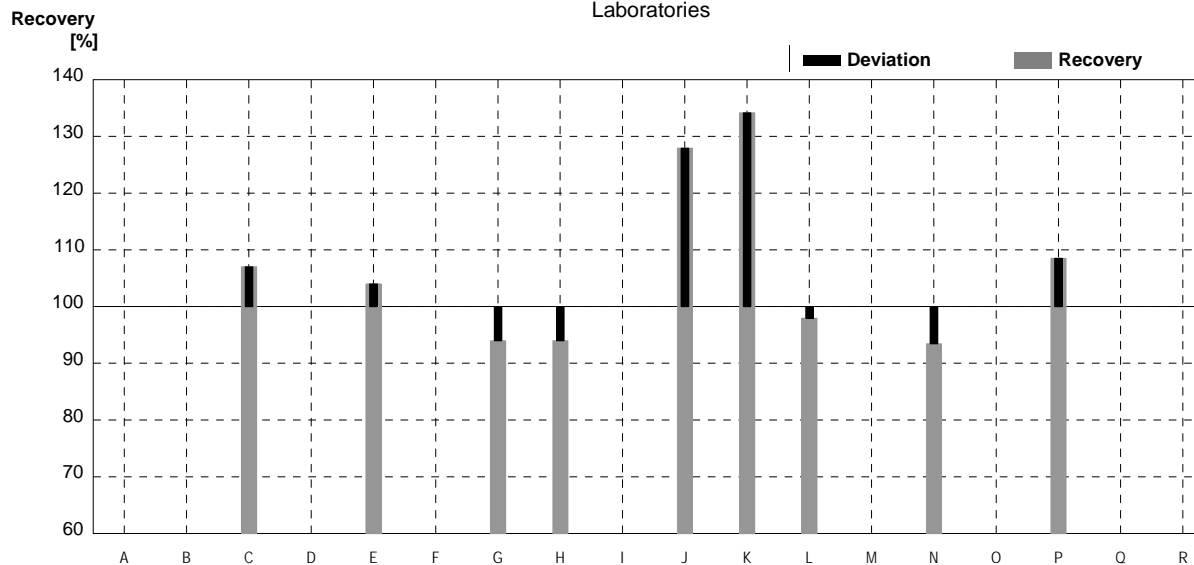
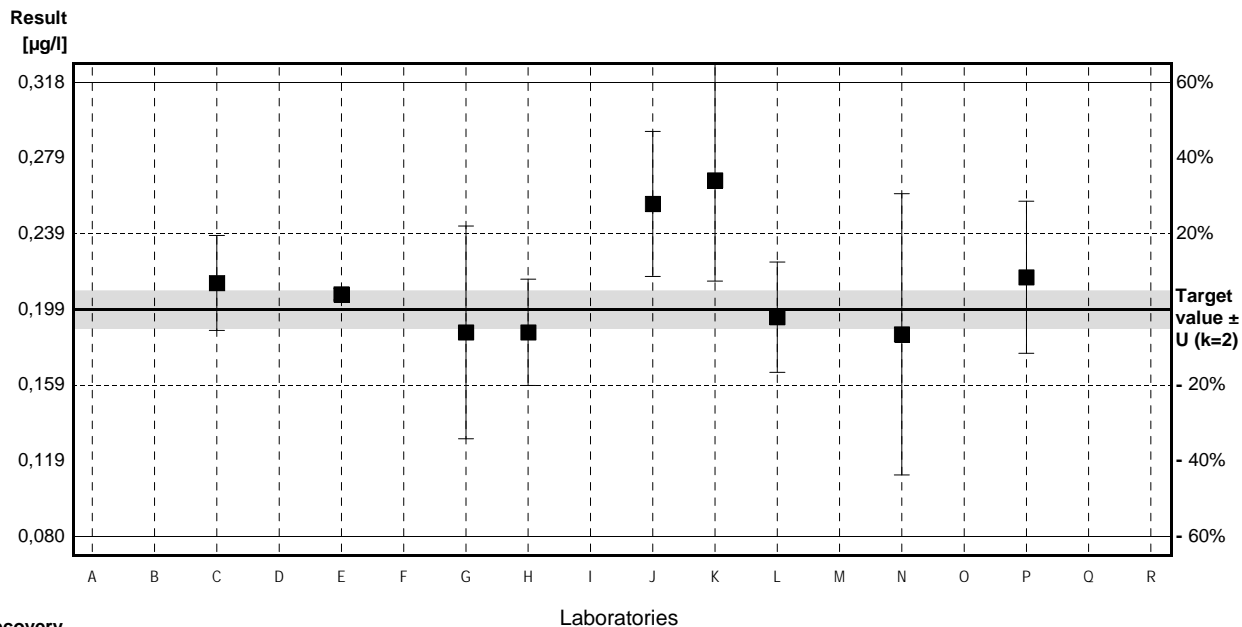
	All results	Outliers excl.	Unit
Mean \pm CI(99%)	0,088 \pm 0,017	0,088 \pm 0,017	$\mu\text{g/l}$
Recov. \pm CI(99%)	110,2 \pm 21,7	110,2 \pm 21,7	%
SD between labs	0,014	0,014	$\mu\text{g/l}$
RSD between labs	15,9	15,9	%
n for calculation	8	8	

Sample HA85B

Parameter Hexazinone

Target value $\pm U$ (k=2) 0,199 $\mu\text{g/l}$ \pm 0,010 $\mu\text{g/l}$
 IFA result $\pm U$ (k=2) 0,174 $\mu\text{g/l}$ \pm 0,024 $\mu\text{g/l}$
 Stability test $\pm U$ (k=2) 0,167 $\mu\text{g/l}$ \pm 0,023 $\mu\text{g/l}$

Lab Code	Result	\pm	Unit	Recovery	z-Score
A			$\mu\text{g/l}$		
B			$\mu\text{g/l}$		
C	0,213	0,025	$\mu\text{g/l}$	107%	0,41
D			$\mu\text{g/l}$		
E	0,207	0,003	$\mu\text{g/l}$	104%	0,24
F			$\mu\text{g/l}$		
G	0,187	0,056	$\mu\text{g/l}$	94%	-0,35
H	0,187	0,028	$\mu\text{g/l}$	94%	-0,35
I			$\mu\text{g/l}$		
J	0,2546	0,0382	$\mu\text{g/l}$	128%	1,64
K	0,267	0,053	$\mu\text{g/l}$	134%	2,01
L	0,195	0,029	$\mu\text{g/l}$	98%	-0,12
M			$\mu\text{g/l}$		
N	0,186	0,074	$\mu\text{g/l}$	93%	-0,38
O	NA		$\mu\text{g/l}$		
P	0,216	0,04	$\mu\text{g/l}$	109%	0,50
Q			$\mu\text{g/l}$		
R			$\mu\text{g/l}$		



	All results	Outliers excl.	Unit
Mean \pm CI(99%)	0,213 \pm 0,033	0,213 \pm 0,033	$\mu\text{g/l}$
Recov. \pm CI(99%)	106,8 \pm 16,8	106,8 \pm 16,8	%
SD between labs	0,030	0,030	$\mu\text{g/l}$
RSD between labs	14,0	14,0	%
n for calculation	9	9	

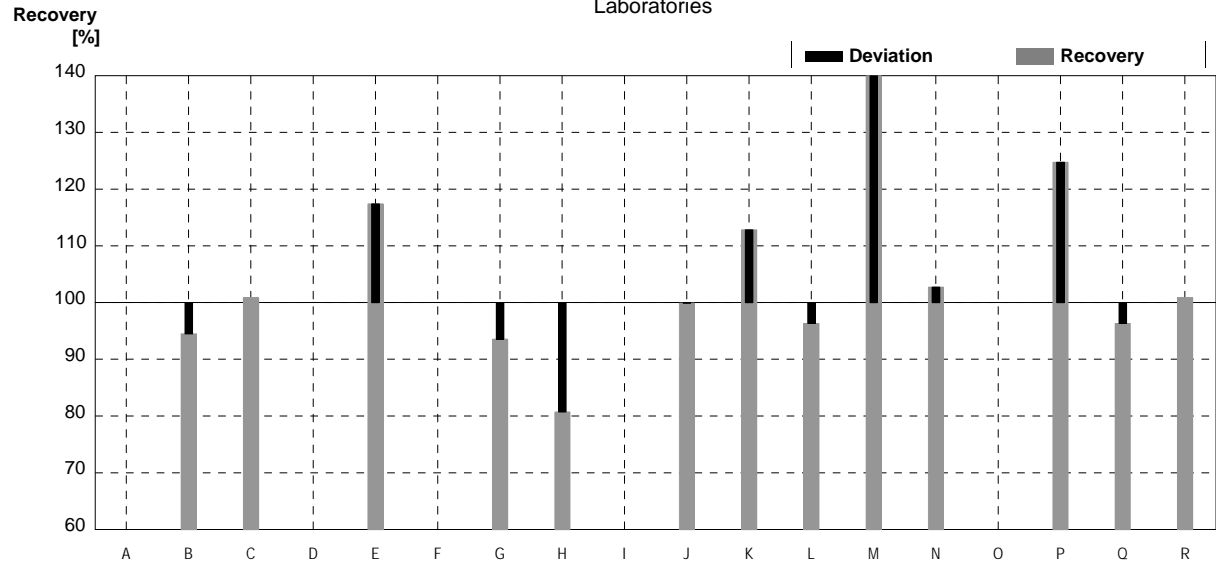
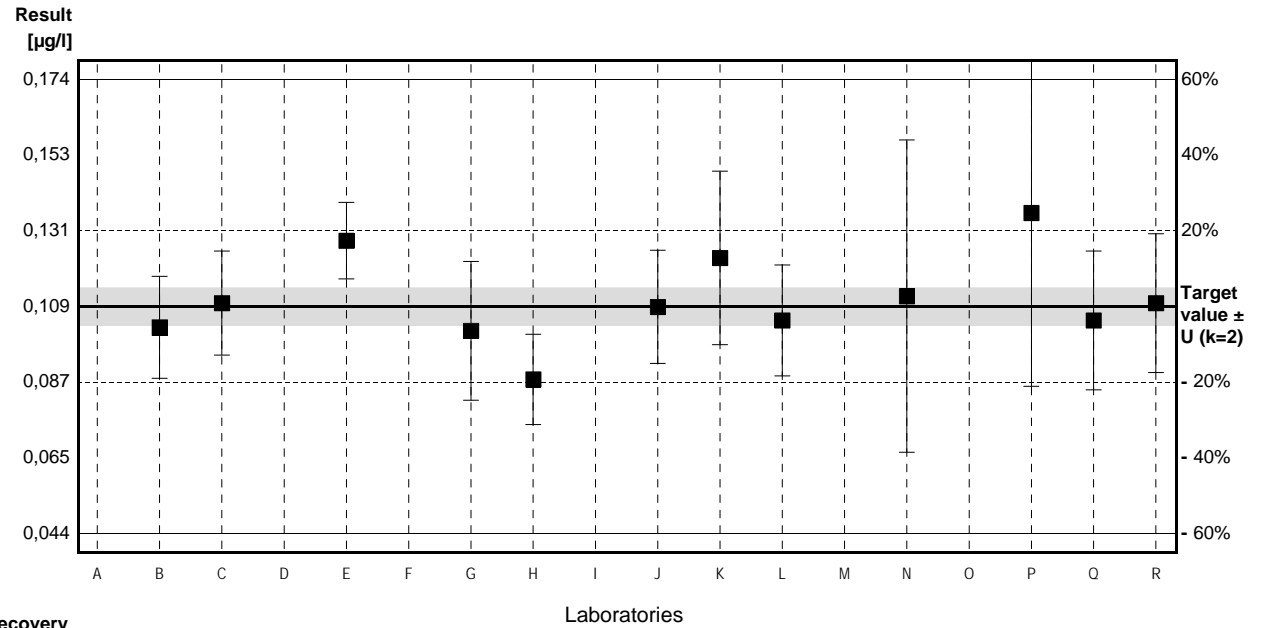
Sample HA85A

Parameter Metazachlor

Target value $\pm U$ (k=2) 0,109 $\mu\text{g/l}$ \pm 0,005 $\mu\text{g/l}$
 IFA result $\pm U$ (k=2) 0,098 $\mu\text{g/l}$ \pm 0,016 $\mu\text{g/l}$
 Stability test $\pm U$ (k=2) 0,096 $\mu\text{g/l}$ \pm 0,015 $\mu\text{g/l}$

Lab Code	Result	\pm	Unit	Recovery	z-Score
A			$\mu\text{g/l}$		
B	0,103	0,0147	$\mu\text{g/l}$	94%	-0,37
C	0,110	0,015	$\mu\text{g/l}$	101%	0,06
D			$\mu\text{g/l}$		
E	0,128	0,011	$\mu\text{g/l}$	117%	1,16
F			$\mu\text{g/l}$		
G	0,102	0,020	$\mu\text{g/l}$	94%	-0,43
H	0,088	0,013	$\mu\text{g/l}$	81%	-1,28
I			$\mu\text{g/l}$		
J	0,1089	0,0163	$\mu\text{g/l}$	100%	-0,01
K	0,123	0,025	$\mu\text{g/l}$	113%	0,86
L	0,105	0,016	$\mu\text{g/l}$	96%	-0,24
M	0,191 *	0,038	$\mu\text{g/l}$	175%	5,02
N	0,112	0,045	$\mu\text{g/l}$	103%	0,18
O	NA		$\mu\text{g/l}$		
P	0,136	0,05	$\mu\text{g/l}$	125%	1,65
Q	0,105	0,02	$\mu\text{g/l}$	96%	-0,24
R	0,11	0,02	$\mu\text{g/l}$	101%	0,06

	All results	Outliers excl.	Unit
Mean \pm CI(99%)	0,117 \pm 0,021	0,111 \pm 0,012	$\mu\text{g/l}$
Recov. \pm CI(99%)	107,4 \pm 19,7	101,8 \pm 10,6	%
SD between labs	0,025	0,013	$\mu\text{g/l}$
RSD between labs	21,7	11,6	%
n for calculation	13	12	

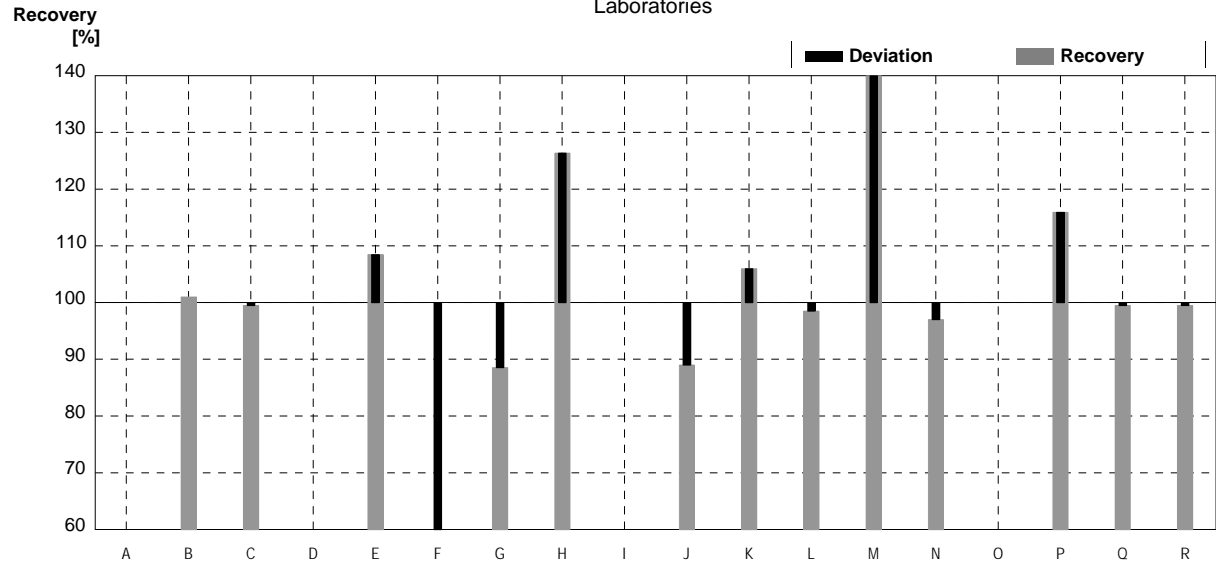
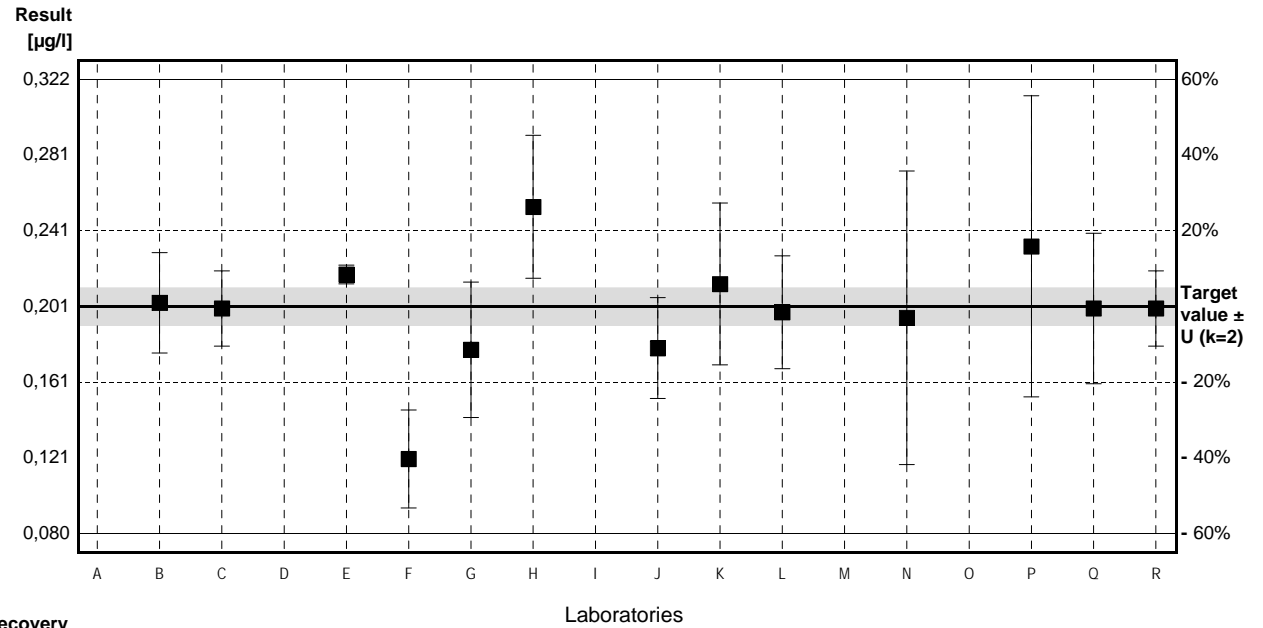


Sample HA85B

Parameter Metazachlor

Target value $\pm U$ (k=2) 0,201 $\mu\text{g/l}$ \pm 0,010 $\mu\text{g/l}$
 IFA result $\pm U$ (k=2) 0,197 $\mu\text{g/l}$ \pm 0,032 $\mu\text{g/l}$
 Stability test $\pm U$ (k=2) 0,173 $\mu\text{g/l}$ \pm 0,028 $\mu\text{g/l}$

Lab Code	Result	\pm	Unit	Recovery	z-Score
A			$\mu\text{g/l}$		
B	0,203	0,0267	$\mu\text{g/l}$	101%	0,07
C	0,200	0,02	$\mu\text{g/l}$	100%	-0,03
D			$\mu\text{g/l}$		
E	0,218	0,005	$\mu\text{g/l}$	108%	0,56
F	0,12 *	0,026	$\mu\text{g/l}$	60%	-2,69
G	0,178	0,036	$\mu\text{g/l}$	89%	-0,76
H	0,254	0,038	$\mu\text{g/l}$	126%	1,76
I			$\mu\text{g/l}$		
J	0,1789	0,0268	$\mu\text{g/l}$	89%	-0,73
K	0,213	0,043	$\mu\text{g/l}$	106%	0,40
L	0,198	0,030	$\mu\text{g/l}$	99%	-0,10
M	0,325 *	0,065	$\mu\text{g/l}$	162%	4,11
N	0,195	0,078	$\mu\text{g/l}$	97%	-0,20
O	NA		$\mu\text{g/l}$		
P	0,233	0,08	$\mu\text{g/l}$	116%	1,06
Q	0,200	0,04	$\mu\text{g/l}$	100%	-0,03
R	0,20	0,02	$\mu\text{g/l}$	100%	-0,03



	All results	Outliers excl.	Unit
Mean \pm CI(99%)	0,208 \pm 0,036	0,206 \pm 0,019	$\mu\text{g/l}$
Recov. \pm CI(99%)	103,6 \pm 18,1	102,4 \pm 9,6	%
SD between labs	0,045	0,021	$\mu\text{g/l}$
RSD between labs	21,7	10,4	%
n for calculation	14	12	

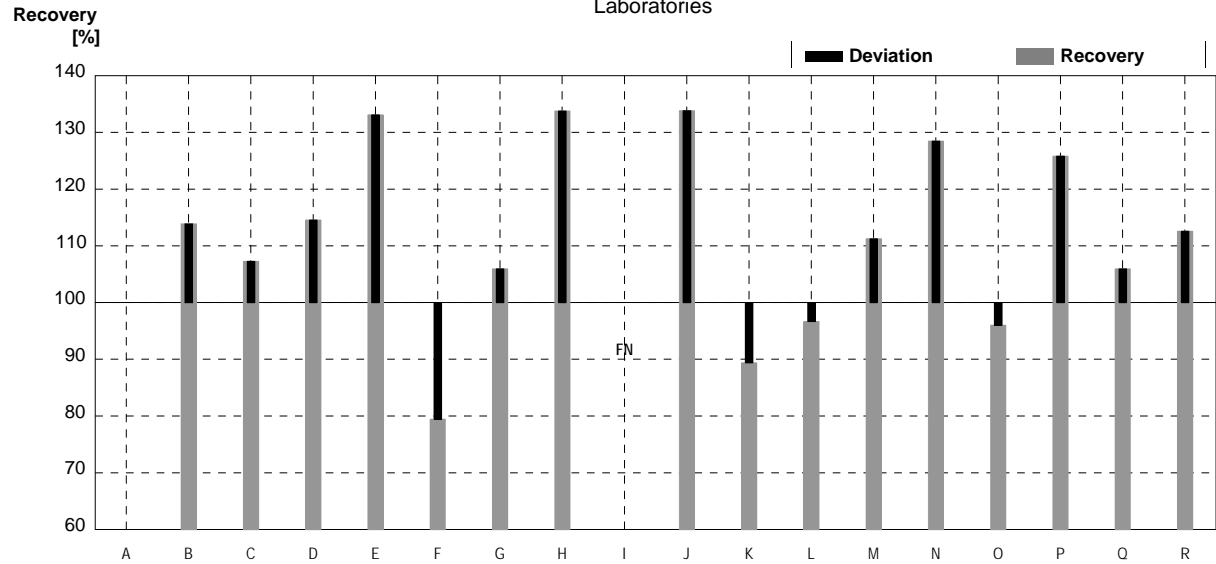
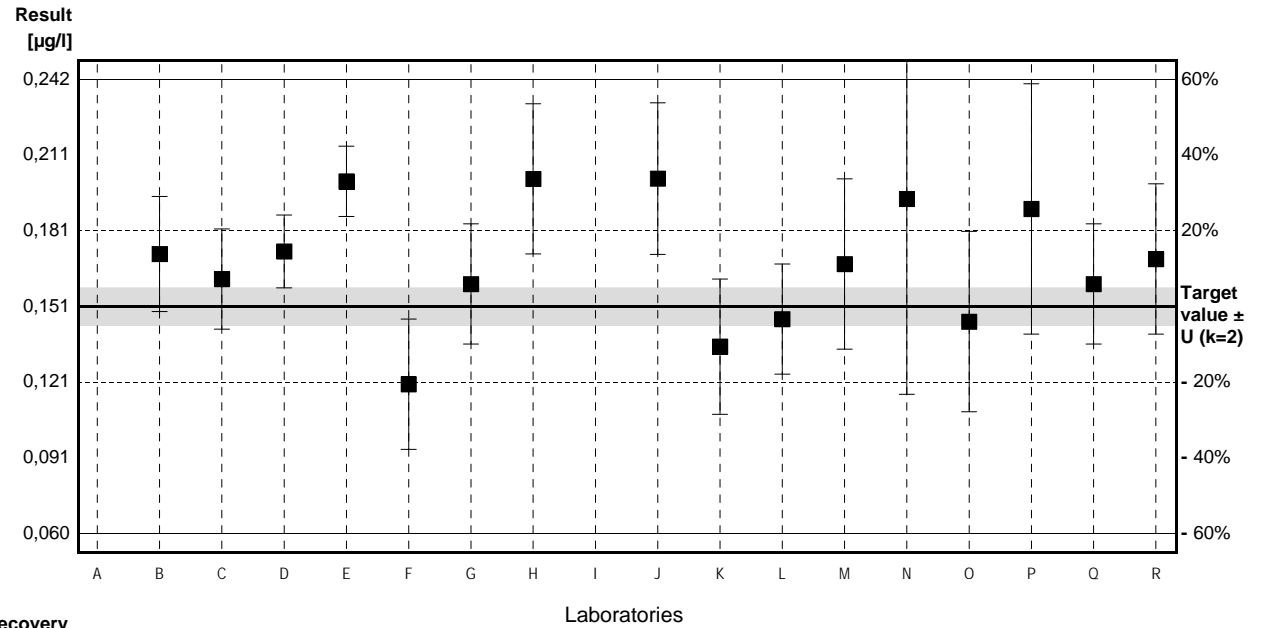
Sample HA85A

Parameter Metolachlor

Target value $\pm U$ (k=2) 0,151 $\mu\text{g/l}$ \pm 0,008 $\mu\text{g/l}$
 IFA result $\pm U$ (k=2) 0,151 $\mu\text{g/l}$ \pm 0,026 $\mu\text{g/l}$
 Stability test $\pm U$ (k=2) 0,136 $\mu\text{g/l}$ \pm 0,023 $\mu\text{g/l}$

Lab Code	Result	\pm	Unit	Recovery	z-Score
A			$\mu\text{g/l}$		
B	0,172	0,023	$\mu\text{g/l}$	114%	0,93
C	0,162	0,02	$\mu\text{g/l}$	107%	0,49
D	0,173	0,0145	$\mu\text{g/l}$	115%	0,97
E	0,201	0,014	$\mu\text{g/l}$	133%	2,21
F	0,12	0,026	$\mu\text{g/l}$	79%	-1,37
G	0,160	0,024	$\mu\text{g/l}$	106%	0,40
H	0,202	0,03	$\mu\text{g/l}$	134%	2,25
I	<0,001		$\mu\text{g/l}$	FN	
J	0,2021	0,0303	$\mu\text{g/l}$	134%	2,26
K	0,135	0,027	$\mu\text{g/l}$	89%	-0,71
L	0,146	0,022	$\mu\text{g/l}$	97%	-0,22
M	0,168	0,034	$\mu\text{g/l}$	111%	0,75
N	0,194	0,078	$\mu\text{g/l}$	128%	1,90
O	0,145	0,036	$\mu\text{g/l}$	96%	-0,26
P	0,190	0,05	$\mu\text{g/l}$	126%	1,72
Q	0,160	0,024	$\mu\text{g/l}$	106%	0,40
R	0,17	0,03	$\mu\text{g/l}$	113%	0,84

	All results	Outliers excl.	Unit
Mean \pm CI(99%)	0,169 \pm 0,018	0,169 \pm 0,018	$\mu\text{g/l}$
Recov. \pm CI(99%)	111,8 \pm 12,1	111,8 \pm 12,1	%
SD between labs	0,025	0,025	$\mu\text{g/l}$
RSD between labs	14,7	14,7	%
n for calculation	16	16	

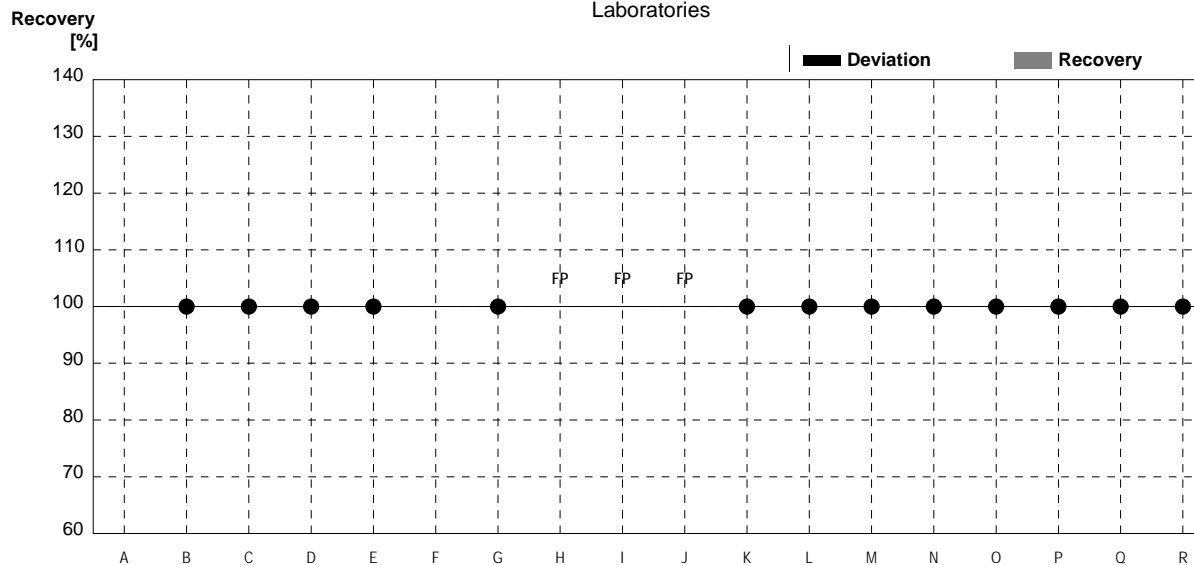
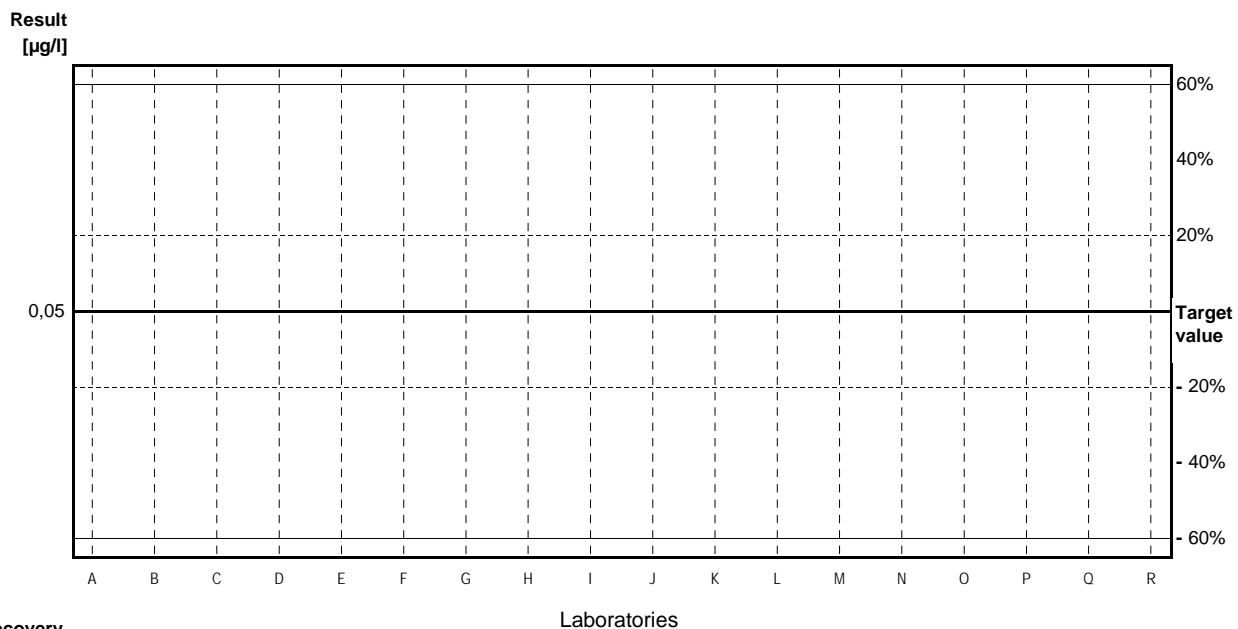


Sample HA85B

Parameter Metolachlor

Target value <0,05 µg/l
 IFA result <0,01 µg/l
 Stability test <0,01 µg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A			µg/l		
B	<0,01		µg/l	•	
C	<0,05		µg/l	•	
D	<0,03		µg/l	•	
E	<0,010		µg/l	•	
F			µg/l		
G	<0,010		µg/l	•	
H	0,194	0,029	µg/l	FP	
I	0,167	0,068	µg/l	FP	
J	0,1833	0,0275	µg/l	FP	
K	<0,01	0,002	µg/l	•	
L	<0,030		µg/l	•	
M	<0,010		µg/l	•	
N	<0,010	0,004	µg/l	•	
O	<0,02		µg/l	•	
P	<0,005	0,003	µg/l	•	
Q	<0,03		µg/l	•	
R	<0,02		µg/l	•	



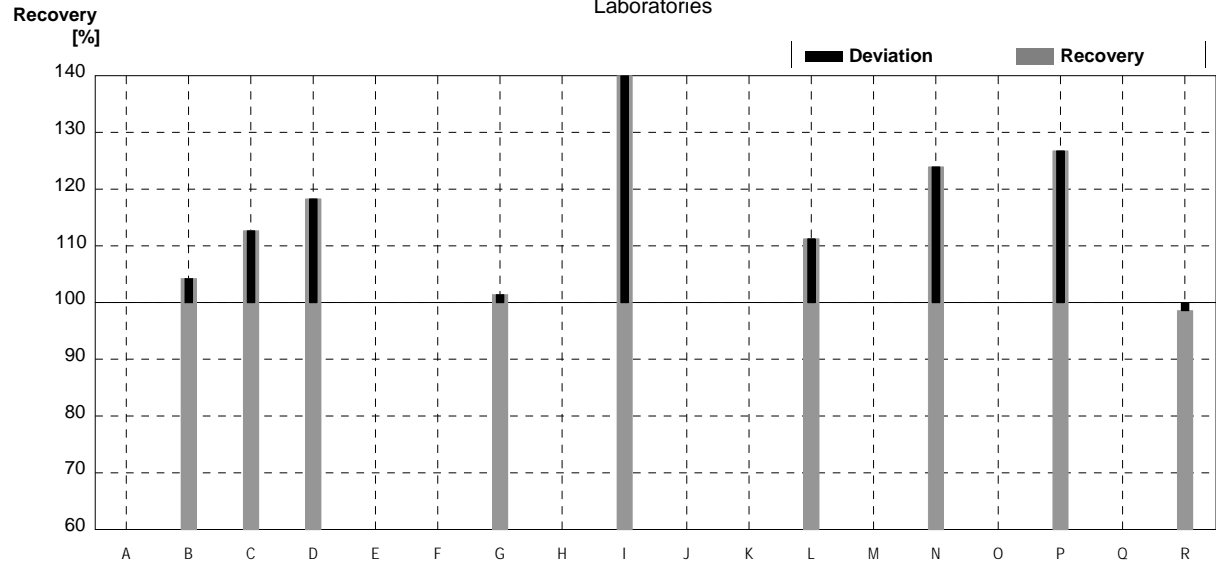
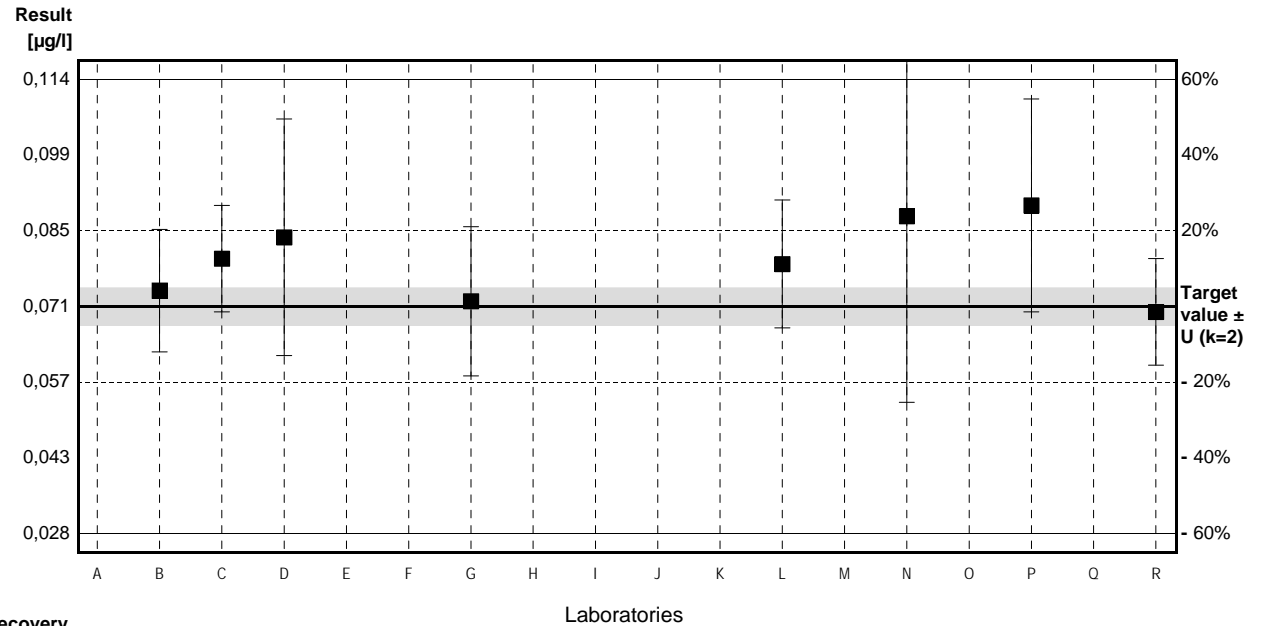
	All results	Outliers excl.	Unit
Mean ± CI(99%)			µg/l
Recov. ± CI(99%)			%
SD between labs			µg/l
RSD between labs			%
n for calculation			

Sample HA85A

Parameter Prometryn

Target value $\pm U$ (k=2) 0,071 $\mu\text{g/l}$ \pm 0,004 $\mu\text{g/l}$
 IFA result $\pm U$ (k=2) 0,062 $\mu\text{g/l}$ \pm 0,007 $\mu\text{g/l}$
 Stability test $\pm U$ (k=2) 0,065 $\mu\text{g/l}$ \pm 0,008 $\mu\text{g/l}$

Lab Code	Result	\pm	Unit	Recovery	z-Score
A			$\mu\text{g/l}$		
B	0,074	0,0115	$\mu\text{g/l}$	104%	0,30
C	0,080	0,01	$\mu\text{g/l}$	113%	0,91
D	0,084	0,0222	$\mu\text{g/l}$	118%	1,31
E			$\mu\text{g/l}$		
F			$\mu\text{g/l}$		
G	0,072	0,014	$\mu\text{g/l}$	101%	0,10
H	n.b.		$\mu\text{g/l}$		
I	0,180 *	0,068	$\mu\text{g/l}$	254%	10,97
J			$\mu\text{g/l}$		
K			$\mu\text{g/l}$		
L	0,079	0,012	$\mu\text{g/l}$	111%	0,80
M			$\mu\text{g/l}$		
N	0,088	0,035	$\mu\text{g/l}$	124%	1,71
O	NA		$\mu\text{g/l}$		
P	0,090	0,02	$\mu\text{g/l}$	127%	1,91
Q			$\mu\text{g/l}$		
R	0,07	0,01	$\mu\text{g/l}$	99%	-0,10



	All results	Outliers excl.	Unit
Mean \pm CI(99%)	0,091 \pm 0,038	0,080 \pm 0,009	$\mu\text{g/l}$
Recov. \pm CI(99%)	127,9 \pm 53,9	112,1 \pm 12,8	%
SD between labs	0,034	0,007	$\mu\text{g/l}$
RSD between labs	37,6	9,3	%
n for calculation	9	8	

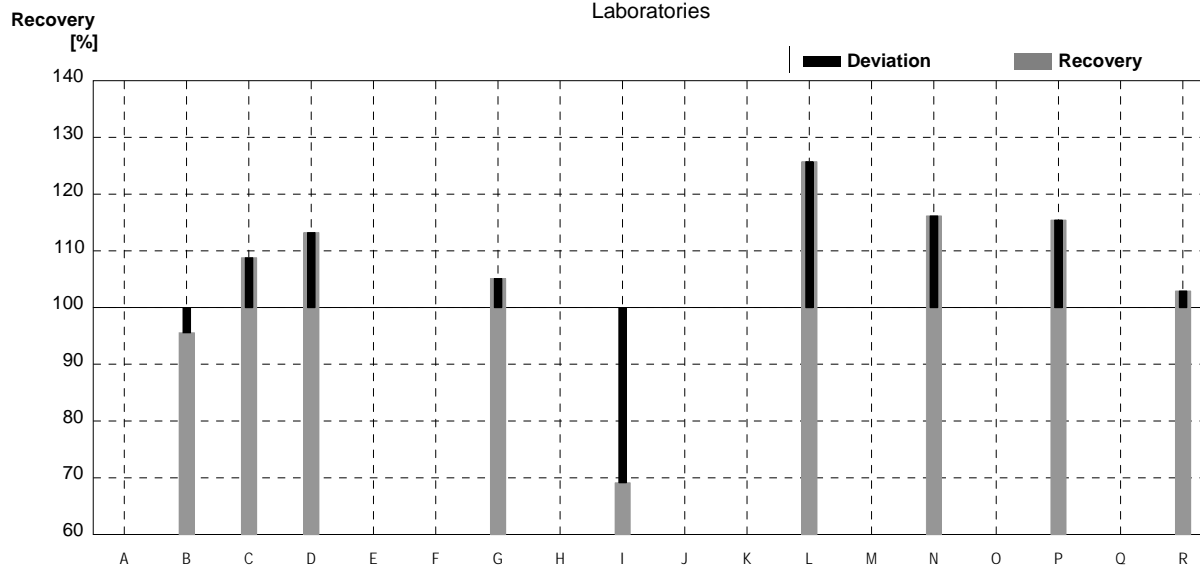
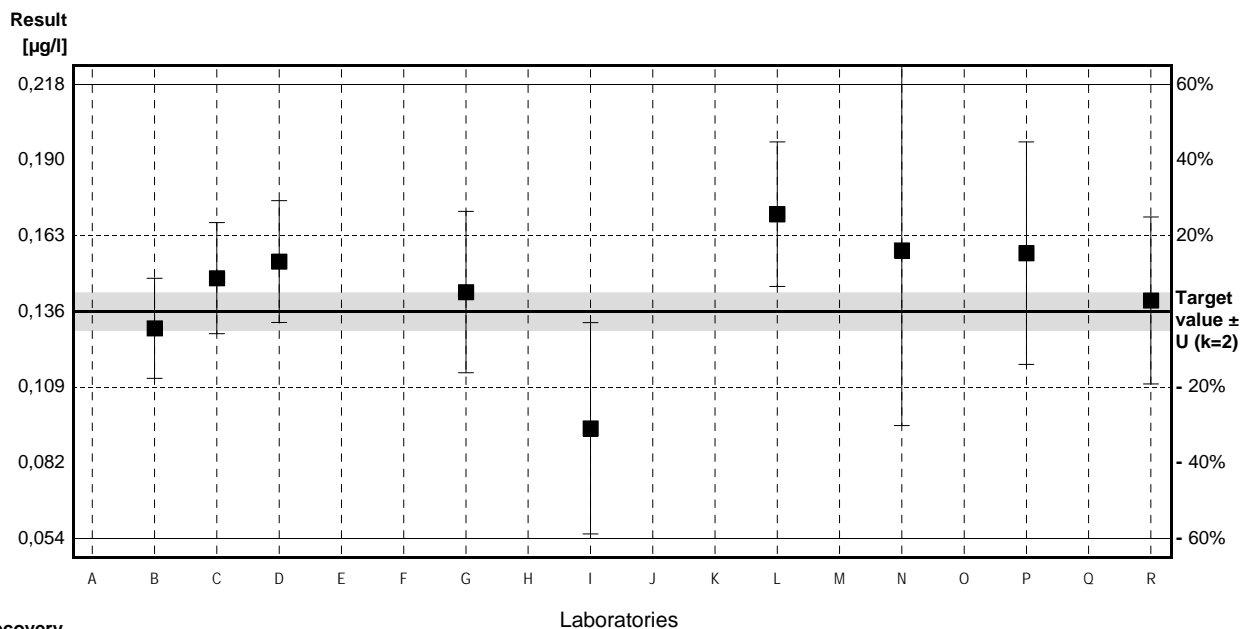
Sample HA85B

Parameter Prometryn

Target value $\pm U$ (k=2) 0,136 $\mu\text{g/l}$ \pm 0,007 $\mu\text{g/l}$
 IFA result $\pm U$ (k=2) 0,124 $\mu\text{g/l}$ \pm 0,015 $\mu\text{g/l}$
 Stability test $\pm U$ (k=2) 0,120 $\mu\text{g/l}$ \pm 0,014 $\mu\text{g/l}$

Lab Code	Result	\pm	Unit	Recovery	z-Score
A			$\mu\text{g/l}$		
B	0,13	0,018	$\mu\text{g/l}$	96%	-0,32
C	0,148	0,02	$\mu\text{g/l}$	109%	0,63
D	0,154	0,0219	$\mu\text{g/l}$	113%	0,95
E			$\mu\text{g/l}$		
F			$\mu\text{g/l}$		
G	0,143	0,029	$\mu\text{g/l}$	105%	0,37
H	n.b.		$\mu\text{g/l}$		
I	0,094 *	0,038	$\mu\text{g/l}$	69%	-2,21
J			$\mu\text{g/l}$		
K			$\mu\text{g/l}$		
L	0,171	0,026	$\mu\text{g/l}$	126%	1,84
M			$\mu\text{g/l}$		
N	0,158	0,063	$\mu\text{g/l}$	116%	1,16
O	NA		$\mu\text{g/l}$		
P	0,157	0,04	$\mu\text{g/l}$	115%	1,10
Q			$\mu\text{g/l}$		
R	0,14	0,03	$\mu\text{g/l}$	103%	0,21

	All results	Outliers excl.	Unit
Mean \pm CI(99%)	0,144 \pm 0,025	0,150 \pm 0,016	$\mu\text{g/l}$
Recov. \pm CI(99%)	105,8 \pm 18,2	110,4 \pm 11,5	%
SD between labs	0,022	0,013	$\mu\text{g/l}$
RSD between labs	15,4	8,4	%
n for calculation	9	8	



Sample HA85A

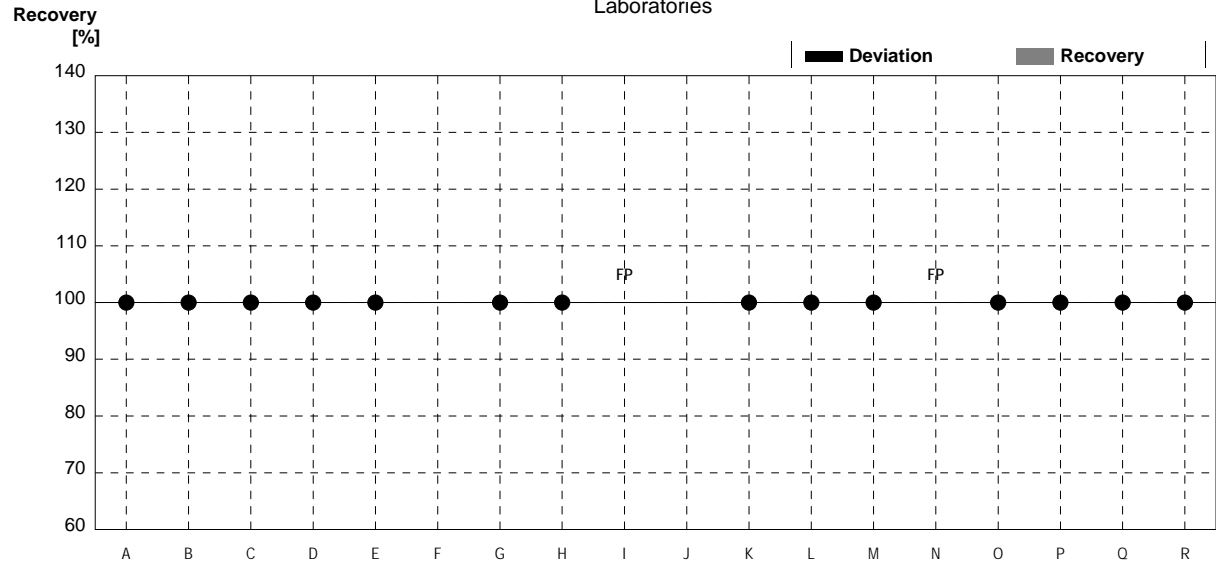
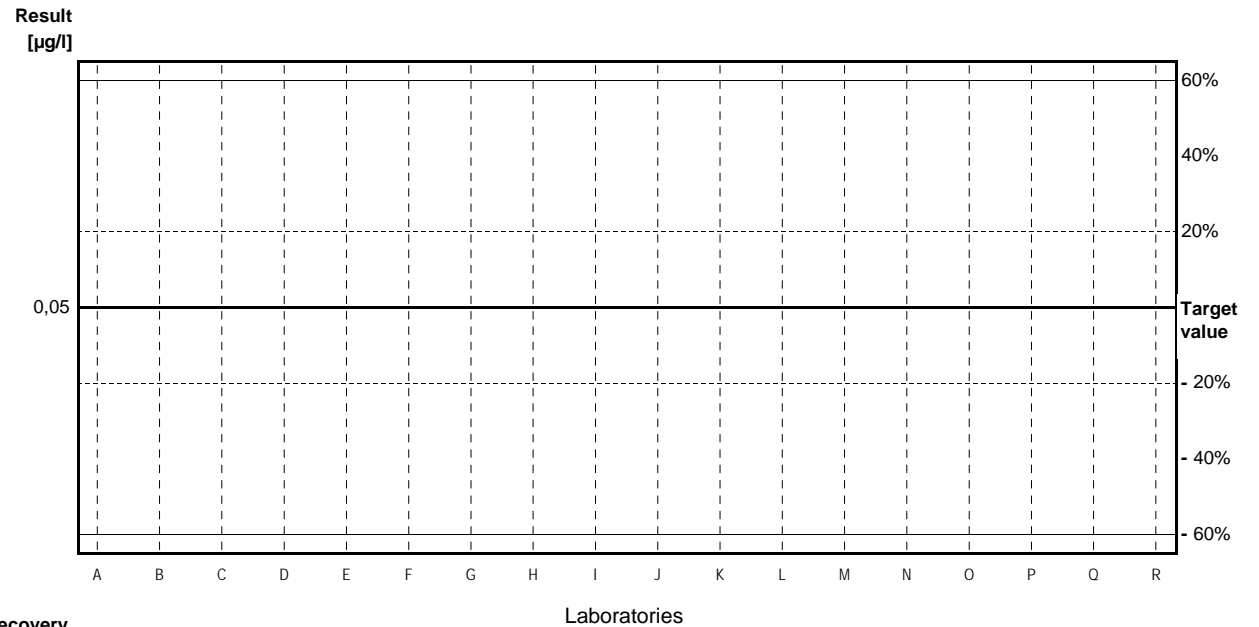
Parameter Propazine

Target value <0,05 µg/l

IFA result <0,01 µg/l

Stability test <0,01 µg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A	<0,020		µg/l	•	
B	<0,01		µg/l	•	
C	<0,05		µg/l	•	
D	<0,03		µg/l	•	
E	<0,010		µg/l	•	
F			µg/l		
G	<0,010		µg/l	•	
H	<0,03		µg/l	•	
I	0,239	0,098	µg/l	FP	
J			µg/l		
K	<0,01	0,002	µg/l	•	
L	<0,030		µg/l	•	
M	<0,010		µg/l	•	
N	0,056	0,022	µg/l	FP	
O	<0,02		µg/l	•	
P	<0,005	0,002	µg/l	•	
Q	<0,03		µg/l	•	
R	<0,02		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			

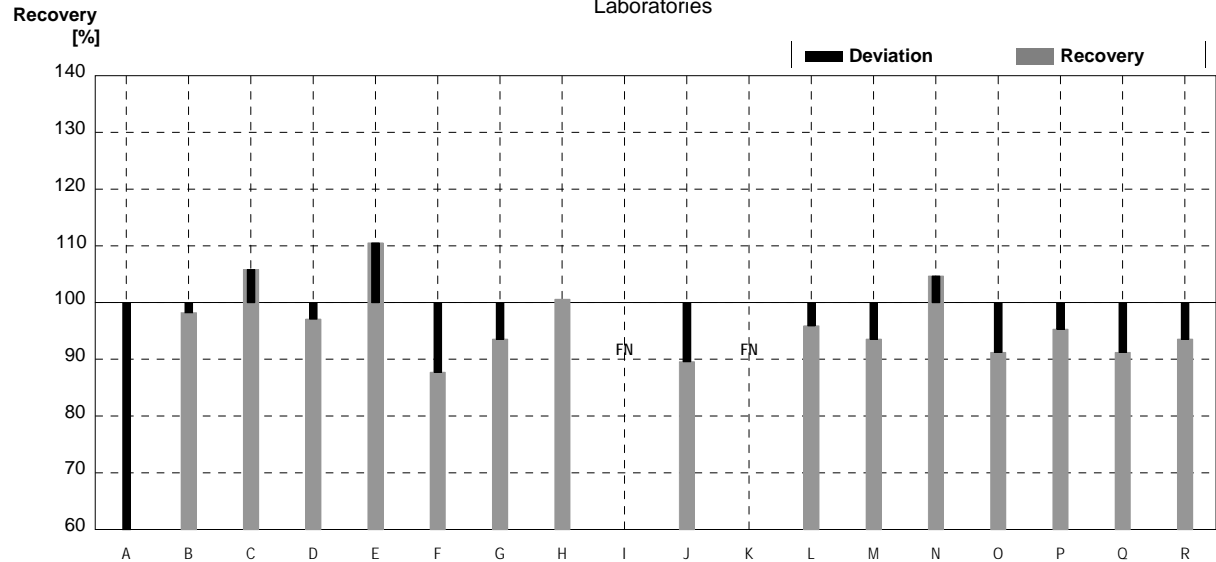
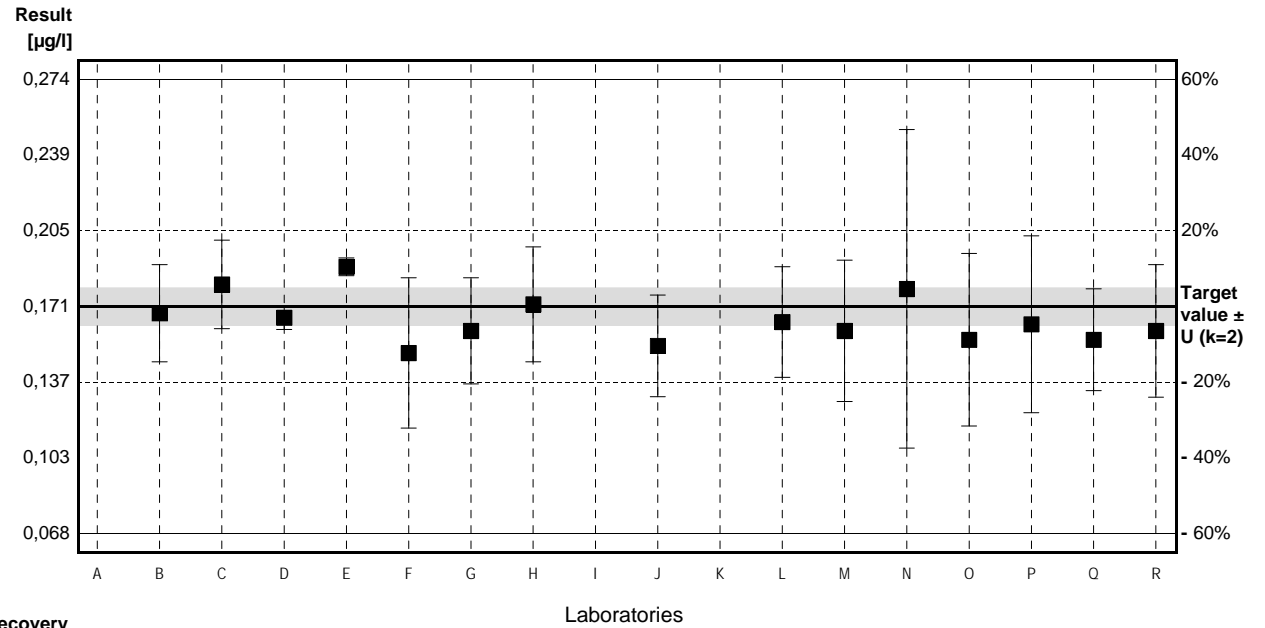
Sample HA85B

Parameter Propazine

Target value $\pm U$ (k=2) 0,171 $\mu\text{g/l}$ \pm 0,009 $\mu\text{g/l}$
 IFA result $\pm U$ (k=2) 0,159 $\mu\text{g/l}$ \pm 0,025 $\mu\text{g/l}$
 Stability test $\pm U$ (k=2) 0,151 $\mu\text{g/l}$ \pm 0,024 $\mu\text{g/l}$

Lab Code	Result	\pm	Unit	Recovery	z-Score
A	0,024 *	0,004	$\mu\text{g/l}$	14%	-6,61
B	0,168	0,022	$\mu\text{g/l}$	98%	-0,13
C	0,181	0,02	$\mu\text{g/l}$	106%	0,45
D	0,166	0,0054	$\mu\text{g/l}$	97%	-0,22
E	0,189	0,004	$\mu\text{g/l}$	111%	0,81
F	0,15	0,034	$\mu\text{g/l}$	88%	-0,94
G	0,160	0,024	$\mu\text{g/l}$	94%	-0,49
H	0,172	0,026	$\mu\text{g/l}$	101%	0,04
I	<0,001		$\mu\text{g/l}$	FN	
J	0,1532	0,0230	$\mu\text{g/l}$	90%	-0,80
K	<0,01	0,002	$\mu\text{g/l}$	FN	
L	0,164	0,025	$\mu\text{g/l}$	96%	-0,31
M	0,160	0,032	$\mu\text{g/l}$	94%	-0,49
N	0,179	0,072	$\mu\text{g/l}$	105%	0,36
O	0,156	0,039	$\mu\text{g/l}$	91%	-0,67
P	0,163	0,04	$\mu\text{g/l}$	95%	-0,36
Q	0,156	0,023	$\mu\text{g/l}$	91%	-0,67
R	0,16	0,03	$\mu\text{g/l}$	94%	-0,49

	All results	Outliers excl.	Unit
Mean \pm CI(99%)	0,156 \pm 0,027	0,165 \pm 0,008	$\mu\text{g/l}$
Recov. \pm CI(99%)	91,4 \pm 15,9	96,6 \pm 4,9	%
SD between labs	0,037	0,011	$\mu\text{g/l}$
RSD between labs	23,6	6,7	%
n for calculation	16	15	

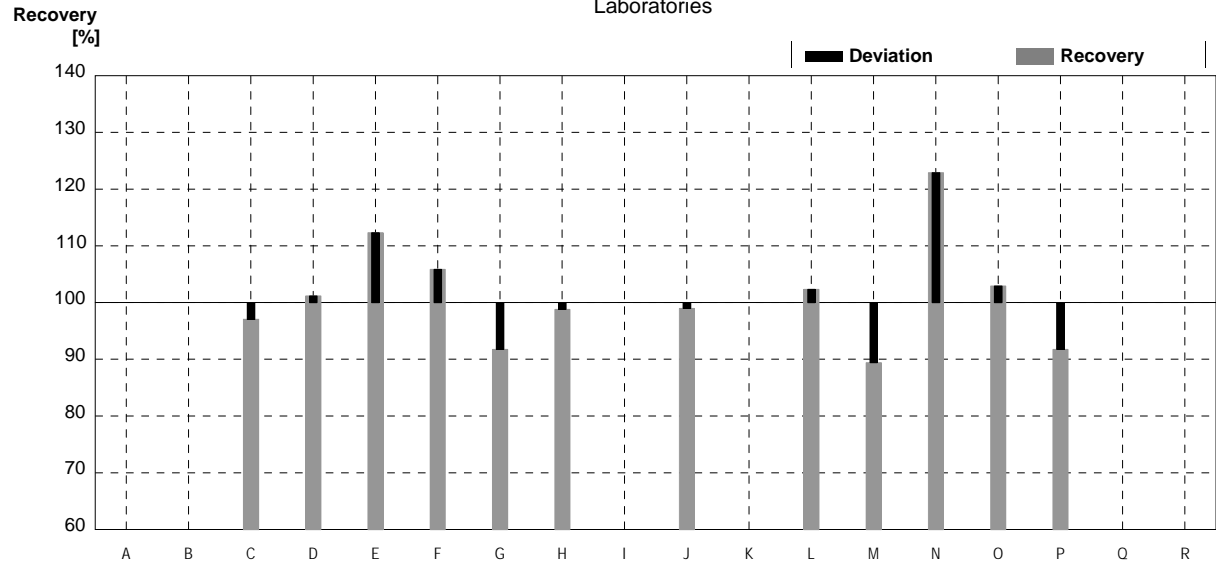
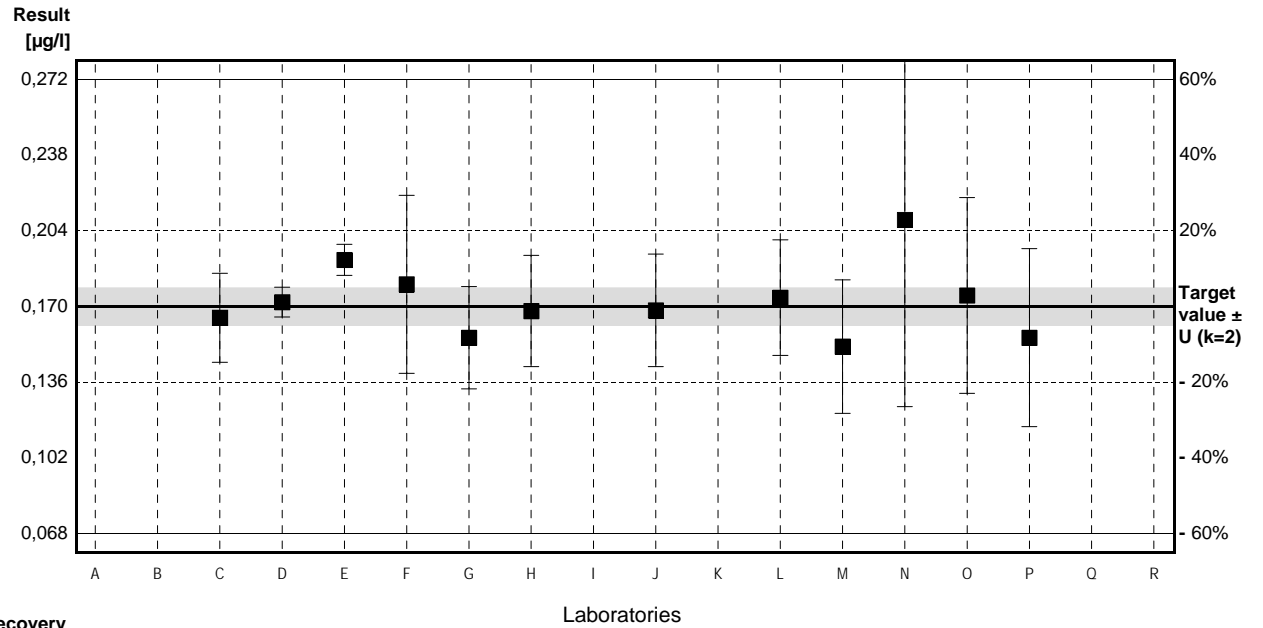


Sample HA85A

Parameter Sebuthylazine

Target value ± U (k=2) 0,170 µg/l ± 0,009 µg/l
 IFA result ± U (k=2) 0,168 µg/l ± 0,013 µg/l
 Stability test ± U (k=2) 0,161 µg/l ± 0,013 µg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A			µg/l		
B			µg/l		
C	0,165	0,02	µg/l	97%	-0,29
D	0,172	0,0067	µg/l	101%	0,12
E	0,191	0,007	µg/l	112%	1,24
F	0,18	0,040	µg/l	106%	0,59
G	0,156	0,023	µg/l	92%	-0,82
H	0,168	0,025	µg/l	99%	-0,12
I			µg/l		
J	0,1683	0,0253	µg/l	99%	-0,10
K			µg/l		
L	0,174	0,026	µg/l	102%	0,24
M	0,152	0,030	µg/l	89%	-1,06
N	0,209 *	0,084	µg/l	123%	2,29
O	0,175	0,044	µg/l	103%	0,29
P	0,156	0,04	µg/l	92%	-0,82
Q			µg/l		
R			µg/l		



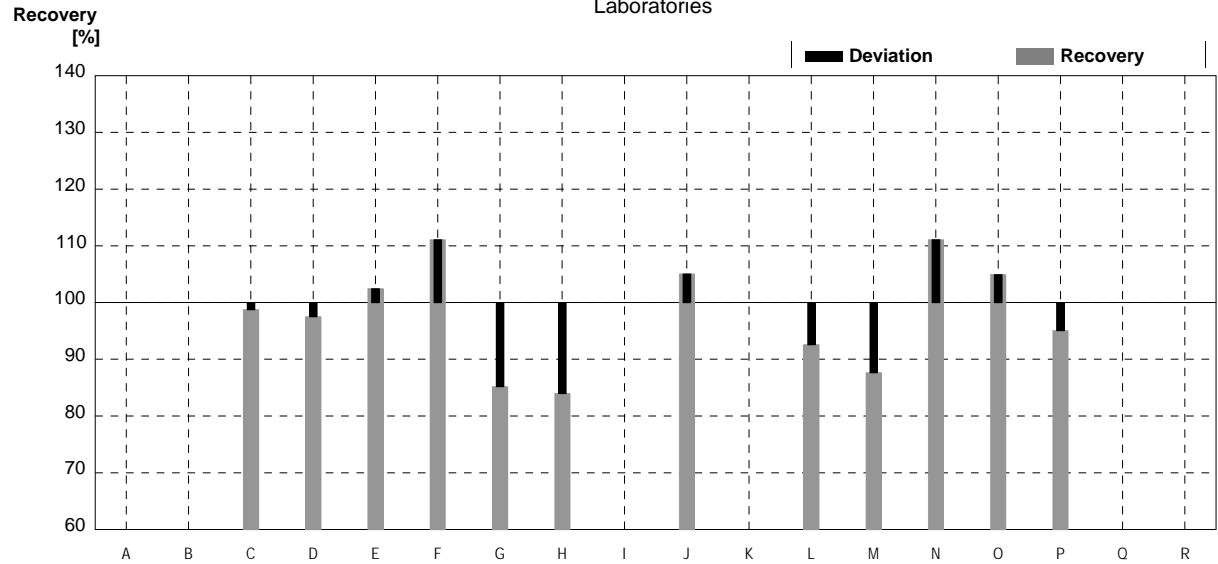
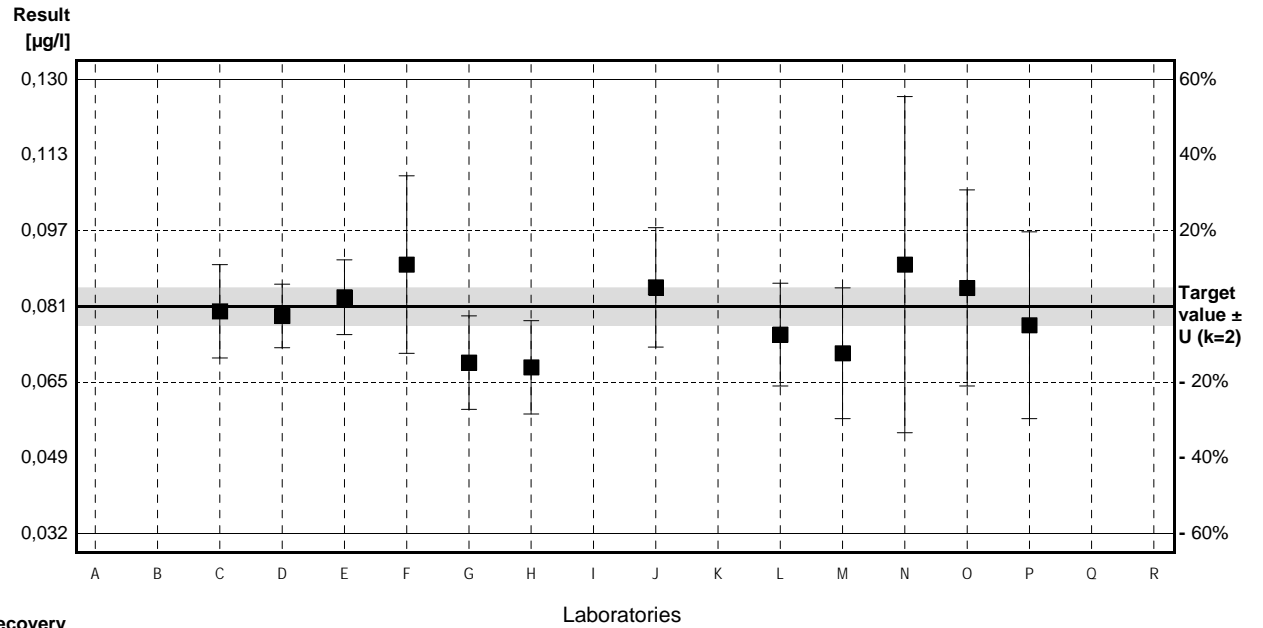
	All results	Outliers excl.	Unit
Mean ± CI(99%)	0,172 ± 0,014	0,169 ± 0,011	µg/l
Recov. ± CI(99%)	101,3 ± 8,4	99,3 ± 6,5	%
SD between labs	0,016	0,011	µg/l
RSD between labs	9,3	6,8	%
n for calculation	12	11	

Sample HA85B

Parameter Sebuthylazine

Target value ± U (k=2) 0,081 µg/l ± 0,004 µg/l
 IFA result ± U (k=2) 0,074 µg/l ± 0,006 µg/l
 Stability test ± U (k=2) 0,070 µg/l ± 0,006 µg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A			µg/l		
B			µg/l		
C	0,080	0,01	µg/l	99%	-0,12
D	0,079	0,0068	µg/l	98%	-0,25
E	0,083	0,008	µg/l	102%	0,25
F	0,09	0,019	µg/l	111%	1,11
G	0,069	0,010	µg/l	85%	-1,48
H	0,068	0,01	µg/l	84%	-1,60
I			µg/l		
J	0,0851	0,0128	µg/l	105%	0,51
K			µg/l		
L	0,075	0,011	µg/l	93%	-0,74
M	0,071	0,014	µg/l	88%	-1,23
N	0,090	0,036	µg/l	111%	1,11
O	0,085	0,021	µg/l	105%	0,49
P	0,077	0,02	µg/l	95%	-0,49
Q			µg/l		
R			µg/l		

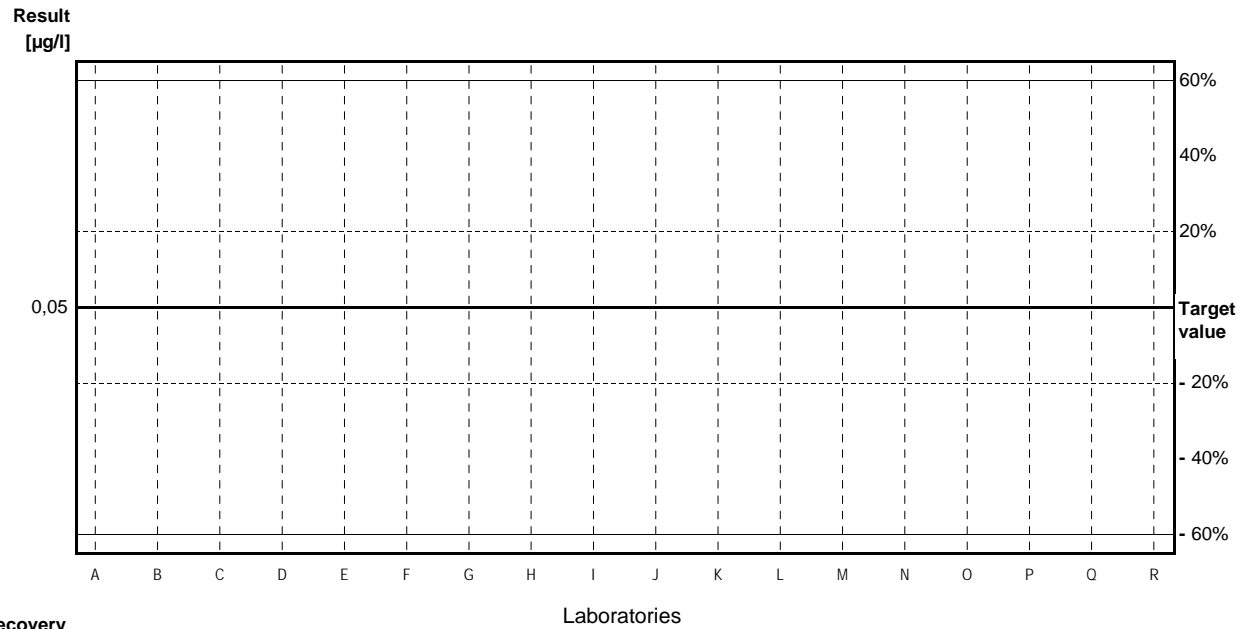


	All results	Outliers excl.	Unit
Mean ± CI(99%)	0,079 ± 0,007	0,079 ± 0,007	µg/l
Recov. ± CI(99%)	98,0 ± 8,4	98,0 ± 8,4	%
SD between labs	0,008	0,008	µg/l
RSD between labs	9,6	9,6	%
n for calculation	12	12	

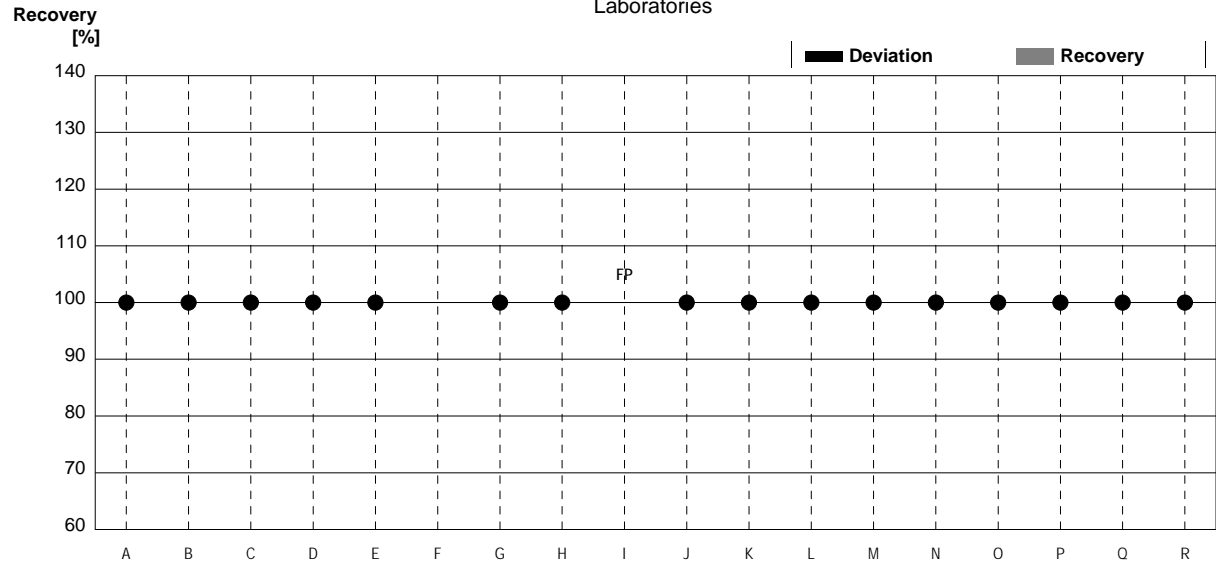
Sample HA85A
Parameter Simazine

Target value <0,05 µg/l
 IFA result <0,01 µg/l
 Stability test <0,01 µg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A	<0,020		µg/l	•	
B	<0,01		µg/l	•	
C	<0,05		µg/l	•	
D	<0,03		µg/l	•	
E	<0,022		µg/l	•	
F			µg/l		
G	<0,010		µg/l	•	
H	<0,03		µg/l	•	
I	0,283	0,113	µg/l	FP	
J	0,0227	0,0034	µg/l	•	
K	<0,01	0,002	µg/l	•	
L	<0,030		µg/l	•	
M	<0,010		µg/l	•	
N	<0,010	0,004	µg/l	•	
O	<0,02		µg/l	•	
P	0,005	0,002	µg/l	•	
Q	<0,025		µg/l	•	
R	<0,02		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 HA85B

Parameter Simazine

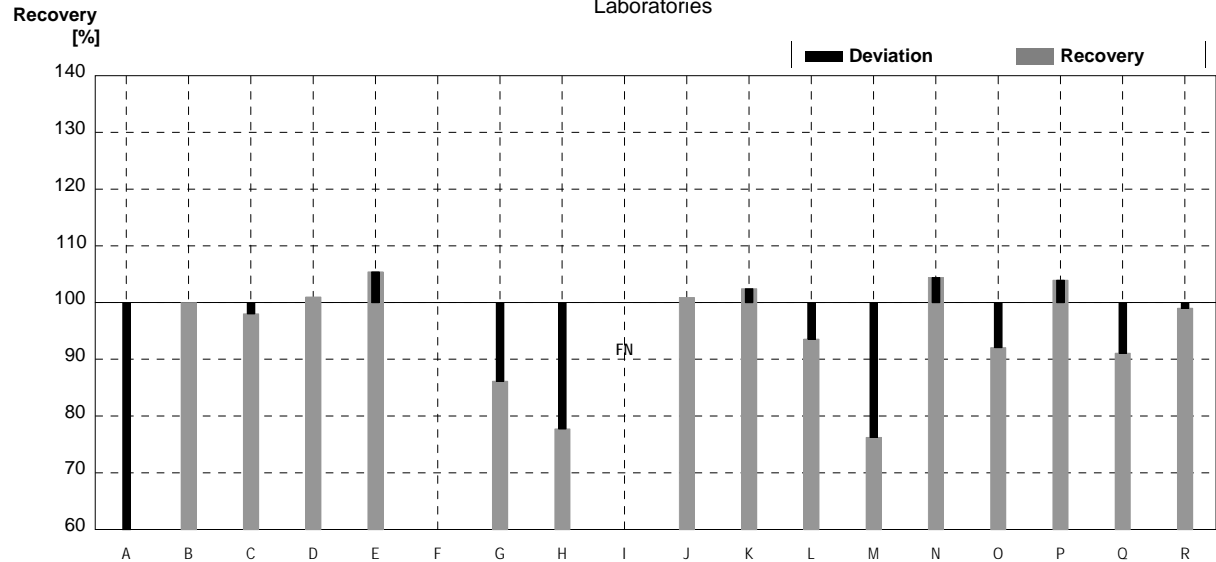
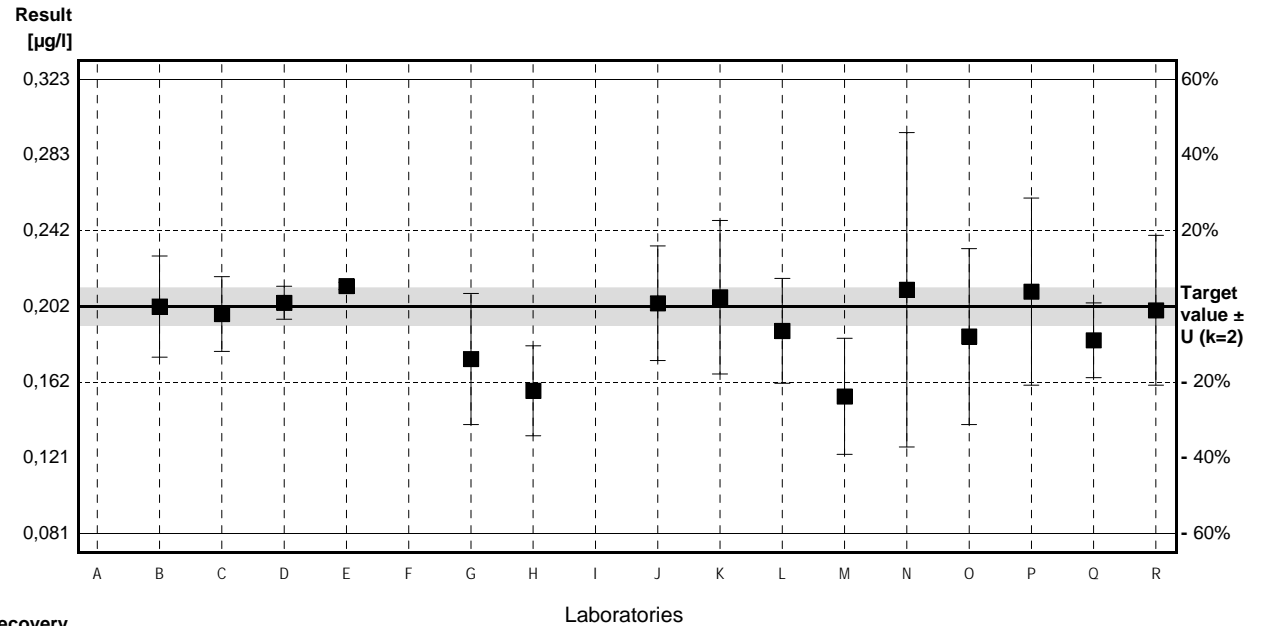
Target value ± U (k=2) 0,202 µg/l ± 0,010 µg/l

IFA result ± U (k=2) 0,193 µg/l ± 0,033 µg/l

Stability test ± U (k=2) 0,190 µg/l ± 0,032 µg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A	0,028 *	0,006	µg/l	14%	-6,15
B	0,202	0,027	µg/l	100%	0,00
C	0,198	0,02	µg/l	98%	-0,14
D	0,204	0,0088	µg/l	101%	0,07
E	0,213	0,002	µg/l	105%	0,39
F			µg/l		
G	0,174	0,035	µg/l	86%	-0,99
H	0,157	0,024	µg/l	78%	-1,59
I	<0,001		µg/l	FN	
J	0,2038	0,0306	µg/l	101%	0,06
K	0,207	0,041	µg/l	102%	0,18
L	0,189	0,028	µg/l	94%	-0,46
M	0,154	0,031	µg/l	76%	-1,70
N	0,211	0,084	µg/l	104%	0,32
O	0,186	0,047	µg/l	92%	-0,57
P	0,210	0,05	µg/l	104%	0,28
Q	0,184	0,02	µg/l	91%	-0,64
R	0,20	0,04	µg/l	99%	-0,07

	All results	Outliers excl.	Unit
Mean ± CI(99%)	0,183 ± 0,033	0,193 ± 0,014	µg/l
Recov. ± CI(99%)	90,4 ± 16,4	95,5 ± 7,1	%
SD between labs	0,045	0,019	µg/l
RSD between labs	24,7	9,7	%
n for calculation	16	15	



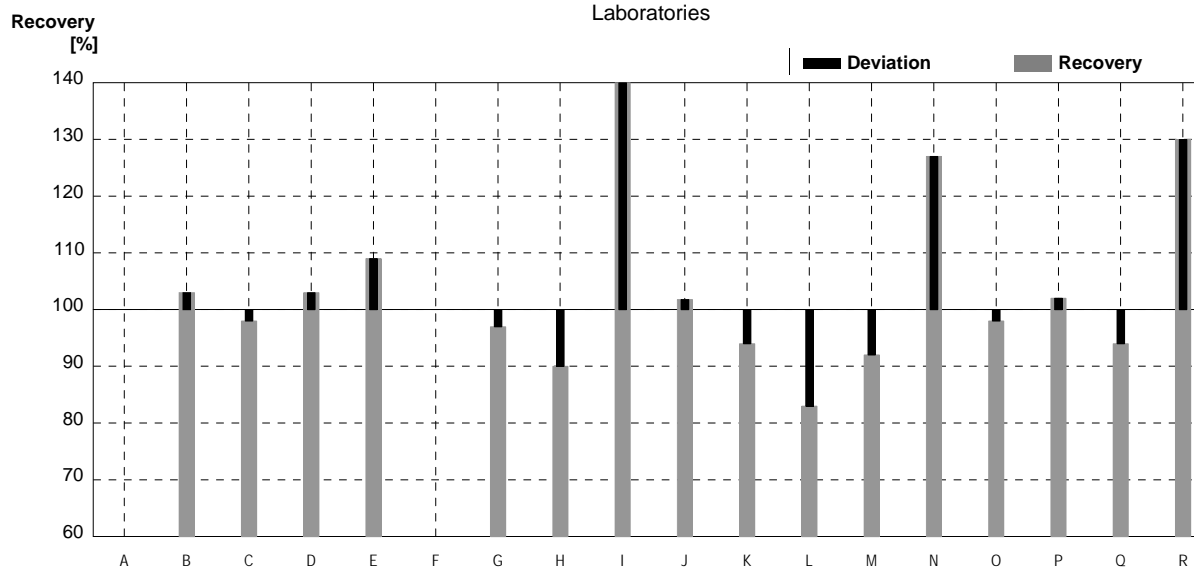
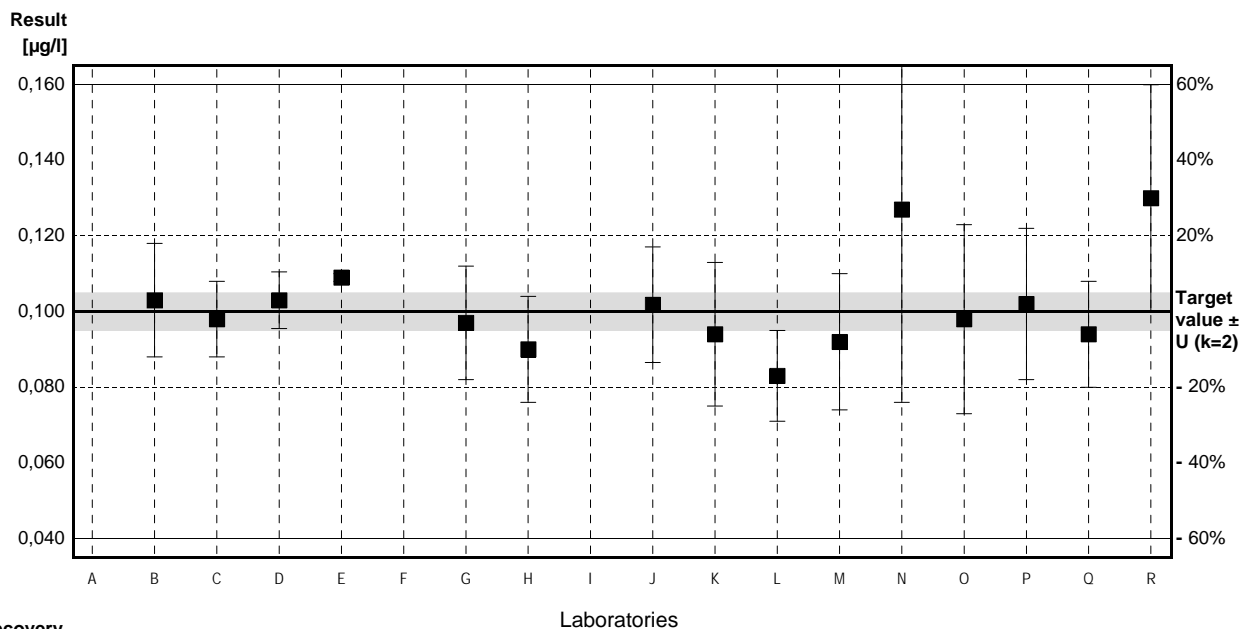
Sample HA85A

Parameter Terbutylazine

Target value $\pm U$ (k=2) 0,100 $\mu\text{g/l}$ \pm 0,005 $\mu\text{g/l}$
 IFA result $\pm U$ (k=2) 0,096 $\mu\text{g/l}$ \pm 0,012 $\mu\text{g/l}$
 Stability test $\pm U$ (k=2) 0,105 $\mu\text{g/l}$ \pm 0,014 $\mu\text{g/l}$

Lab Code	Result	\pm	Unit	Recovery	z-Score
A			$\mu\text{g/l}$		
B	0,103	0,015	$\mu\text{g/l}$	103%	0,21
C	0,098	0,01	$\mu\text{g/l}$	98%	-0,14
D	0,103	0,0075	$\mu\text{g/l}$	103%	0,21
E	0,109	0,001	$\mu\text{g/l}$	109%	0,64
F			$\mu\text{g/l}$		
G	0,097	0,015	$\mu\text{g/l}$	97%	-0,21
H	0,090	0,014	$\mu\text{g/l}$	90%	-0,71
I	0,319 *	0,131	$\mu\text{g/l}$	319%	15,64
J	0,1018	0,0153	$\mu\text{g/l}$	102%	0,13
K	0,094	0,019	$\mu\text{g/l}$	94%	-0,43
L	0,083	0,012	$\mu\text{g/l}$	83%	-1,21
M	0,092	0,018	$\mu\text{g/l}$	92%	-0,57
N	0,127	0,051	$\mu\text{g/l}$	127%	1,93
O	0,098	0,025	$\mu\text{g/l}$	98%	-0,14
P	0,102	0,02	$\mu\text{g/l}$	102%	0,14
Q	0,094	0,014	$\mu\text{g/l}$	94%	-0,43
R	0,13 *	0,03	$\mu\text{g/l}$	130%	2,14

	All results	Outliers excl.	Unit
Mean \pm CI(99%)	0,115 \pm 0,041	0,099 \pm 0,008	$\mu\text{g/l}$
Recov. \pm CI(99%)	115,1 \pm 41,1	99,4 \pm 8,3	%
SD between labs	0,056	0,010	$\mu\text{g/l}$
RSD between labs	48,5	10,3	%
n for calculation	16	14	



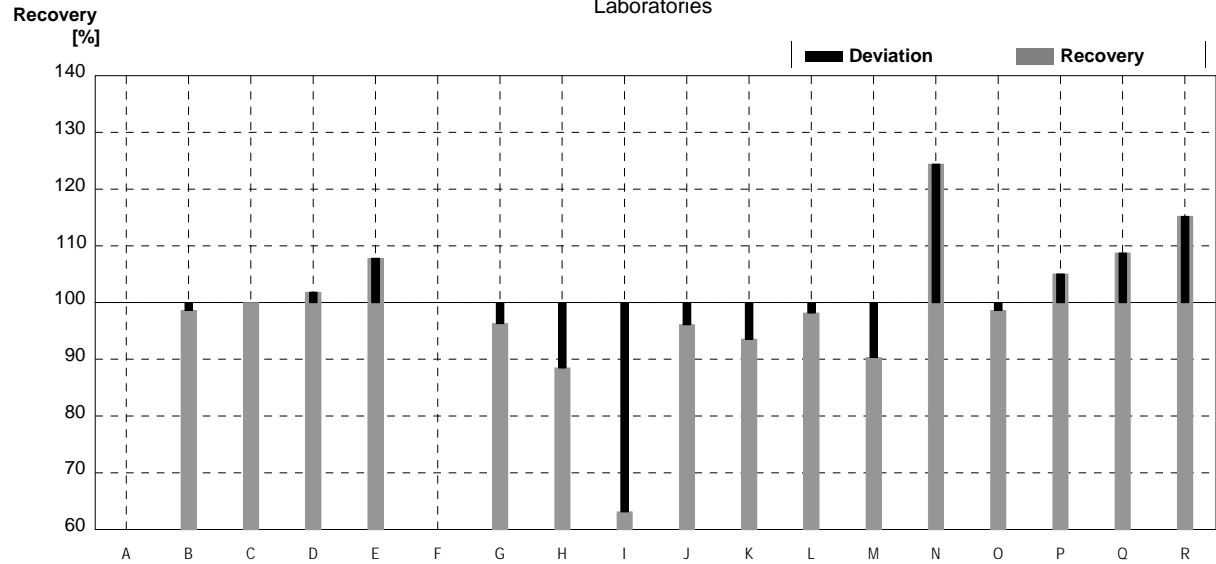
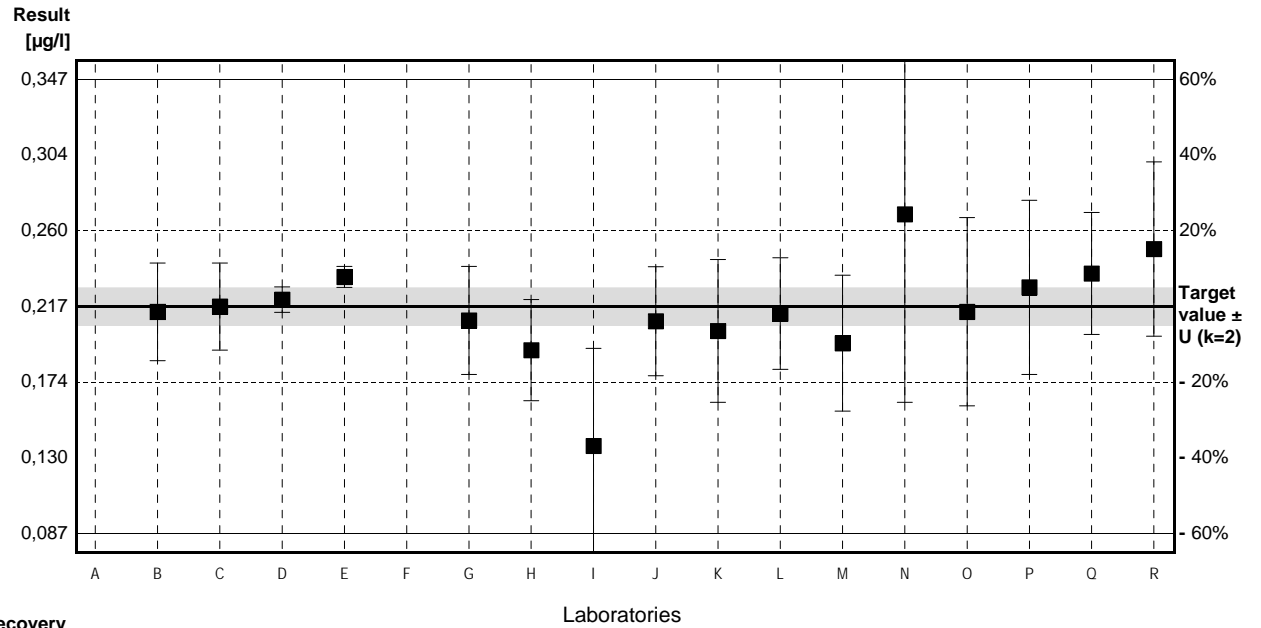
Sample HA85B

Parameter Terbutylazine

Target value ± U (k=2) 0,217 µg/l ± 0,011 µg/l
 IFA result ± U (k=2) 0,215 µg/l ± 0,028 µg/l
 Stability test ± U (k=2) 0,198 µg/l ± 0,026 µg/l

Lab Code	Result	±	Unit	Recovery	z-Score
A			µg/l		
B	0,214	0,028	µg/l	99%	-0,10
C	0,217	0,025	µg/l	100%	0,00
D	0,221	0,0073	µg/l	102%	0,13
E	0,234	0,006	µg/l	108%	0,56
F			µg/l		
G	0,209	0,031	µg/l	96%	-0,26
H	0,192	0,029	µg/l	88%	-0,82
I	0,137 *	0,056	µg/l	63%	-2,63
J	0,2086	0,0313	µg/l	96%	-0,28
K	0,203	0,041	µg/l	94%	-0,46
L	0,213	0,032	µg/l	98%	-0,13
M	0,196	0,039	µg/l	90%	-0,69
N	0,270	0,108	µg/l	124%	1,74
O	0,214	0,054	µg/l	99%	-0,10
P	0,228	0,05	µg/l	105%	0,36
Q	0,236	0,035	µg/l	109%	0,63
R	0,25	0,05	µg/l	115%	1,09

	All results	Outliers excl.	Unit
Mean ± CI(99%)	0,215 ± 0,021	0,220 ± 0,016	µg/l
Recov. ± CI(99%)	99,2 ± 9,8	101,6 ± 7,3	%
SD between labs	0,029	0,021	µg/l
RSD between labs	13,4	9,4	%
n for calculation	16	15	



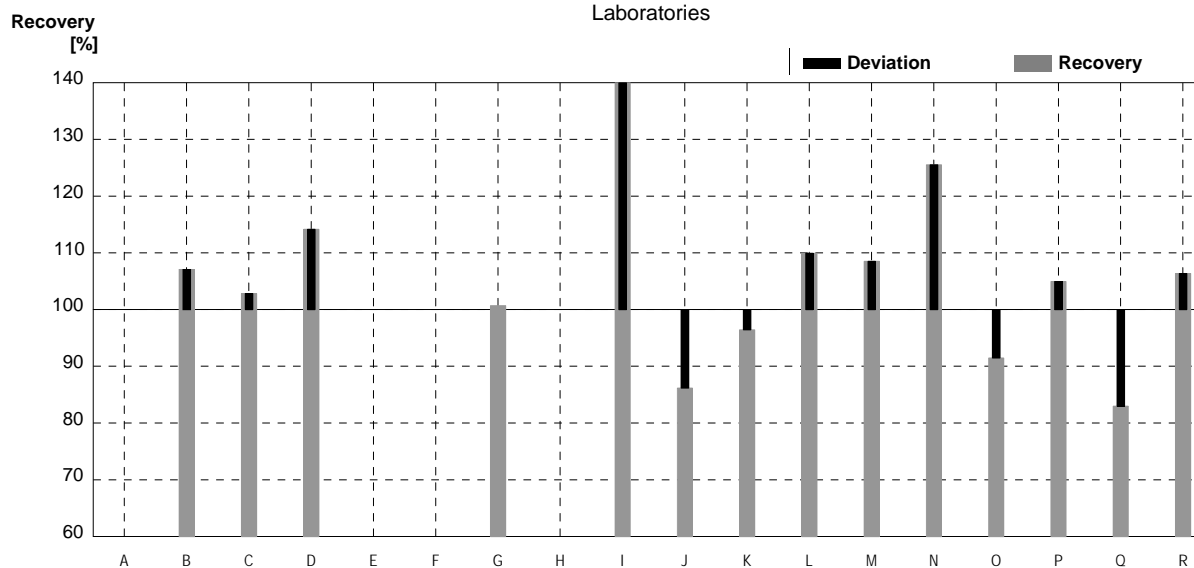
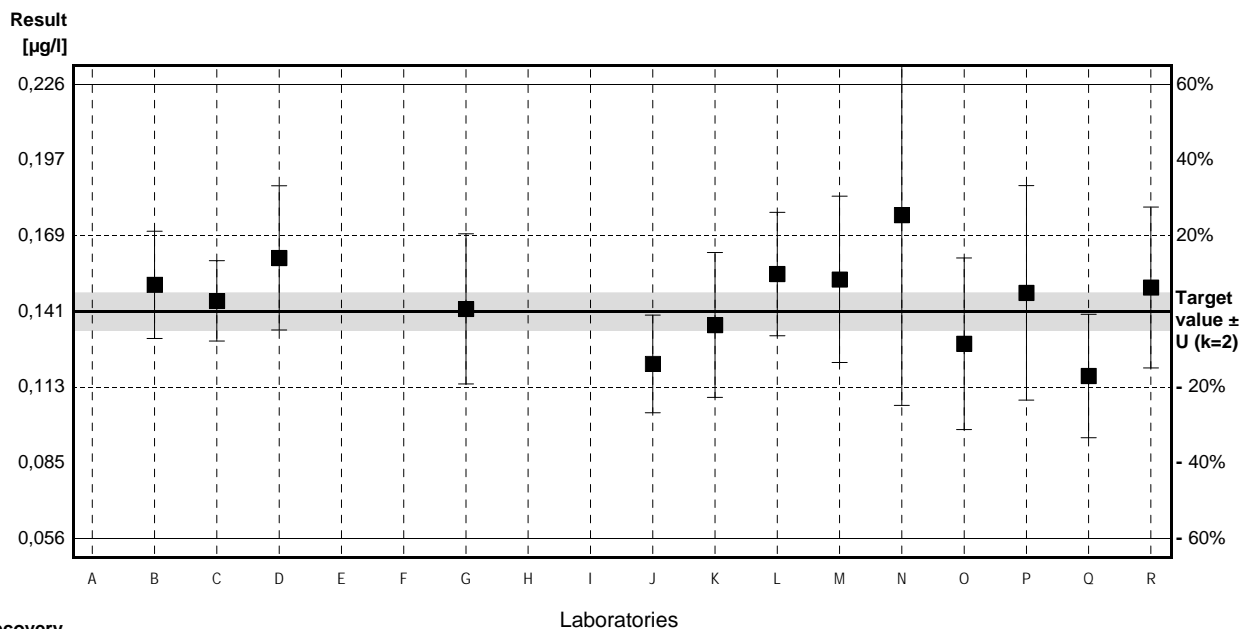
Sample HA85A

Parameter Terbutryn

Target value $\pm U$ (k=2) 0,141 $\mu\text{g/l}$ \pm 0,007 $\mu\text{g/l}$
 IFA result $\pm U$ (k=2) 0,130 $\mu\text{g/l}$ \pm 0,018 $\mu\text{g/l}$
 Stability test $\pm U$ (k=2) 0,123 $\mu\text{g/l}$ \pm 0,017 $\mu\text{g/l}$

Lab Code	Result	\pm	Unit	Recovery	z-Score
A			$\mu\text{g/l}$		
B	0,151	0,02	$\mu\text{g/l}$	107%	0,51
C	0,145	0,015	$\mu\text{g/l}$	103%	0,20
D	0,161	0,0269	$\mu\text{g/l}$	114%	1,01
E			$\mu\text{g/l}$		
F			$\mu\text{g/l}$		
G	0,142	0,028	$\mu\text{g/l}$	101%	0,05
H	n.b.		$\mu\text{g/l}$		
I	0,284 *	0,108	$\mu\text{g/l}$	201%	7,24
J	0,1215	0,0182	$\mu\text{g/l}$	86%	-0,99
K	0,136	0,027	$\mu\text{g/l}$	96%	-0,25
L	0,155	0,023	$\mu\text{g/l}$	110%	0,71
M	0,153	0,031	$\mu\text{g/l}$	109%	0,61
N	0,177	0,071	$\mu\text{g/l}$	126%	1,82
O	0,129	0,032	$\mu\text{g/l}$	91%	-0,61
P	0,148	0,04	$\mu\text{g/l}$	105%	0,35
Q	0,117	0,023	$\mu\text{g/l}$	83%	-1,22
R	0,15	0,03	$\mu\text{g/l}$	106%	0,46

	All results	Outliers excl.	Unit
Mean \pm CI(99%)	0,155 \pm 0,032	0,145 \pm 0,014	$\mu\text{g/l}$
Recov. \pm CI(99%)	109,9 \pm 23,0	102,9 \pm 9,8	%
SD between labs	0,040	0,016	$\mu\text{g/l}$
RSD between labs	26,0	11,3	%
n for calculation	14	13	



Sample HA85B

Parameter Terbutryn

Target value $\pm U$ (k=2) 0,201 $\mu\text{g/l}$ \pm 0,010 $\mu\text{g/l}$
 IFA result $\pm U$ (k=2) 0,203 $\mu\text{g/l}$ \pm 0,028 $\mu\text{g/l}$
 Stability test $\pm U$ (k=2) 0,175 $\mu\text{g/l}$ \pm 0,025 $\mu\text{g/l}$

Lab Code	Result	\pm	Unit	Recovery	z-Score
A			$\mu\text{g/l}$		
B	0,205	0,027	$\mu\text{g/l}$	102%	0,14
C	0,210	0,025	$\mu\text{g/l}$	104%	0,32
D	0,223	0,0268	$\mu\text{g/l}$	111%	0,78
E			$\mu\text{g/l}$		
F			$\mu\text{g/l}$		
G	0,208	0,042	$\mu\text{g/l}$	103%	0,25
H	n.b.		$\mu\text{g/l}$		
I	0,180	0,072	$\mu\text{g/l}$	90%	-0,75
J	0,1727	0,0259	$\mu\text{g/l}$	86%	-1,01
K	0,191	0,038	$\mu\text{g/l}$	95%	-0,36
L	0,211	0,032	$\mu\text{g/l}$	105%	0,36
M	0,192	0,038	$\mu\text{g/l}$	96%	-0,32
N	0,240	0,096	$\mu\text{g/l}$	119%	1,39
O	0,172	0,043	$\mu\text{g/l}$	86%	-1,03
P	0,195	0,05	$\mu\text{g/l}$	97%	-0,21
Q	0,164	0,033	$\mu\text{g/l}$	82%	-1,31
R	0,20	0,04	$\mu\text{g/l}$	100%	-0,04

	All results	Outliers excl.	Unit
Mean \pm CI(99%)	0,197 \pm 0,017	0,197 \pm 0,017	$\mu\text{g/l}$
Recov. \pm CI(99%)	98,2 \pm 8,4	98,2 \pm 8,4	%
SD between labs	0,021	0,021	$\mu\text{g/l}$
RSD between labs	10,6	10,6	%
n for calculation	14	14	

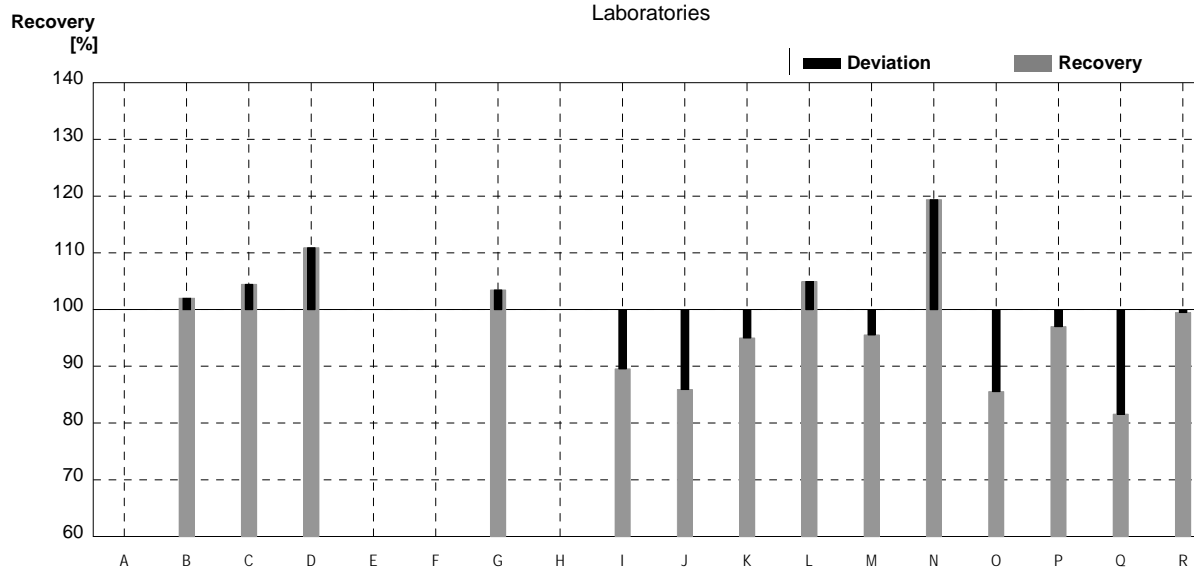
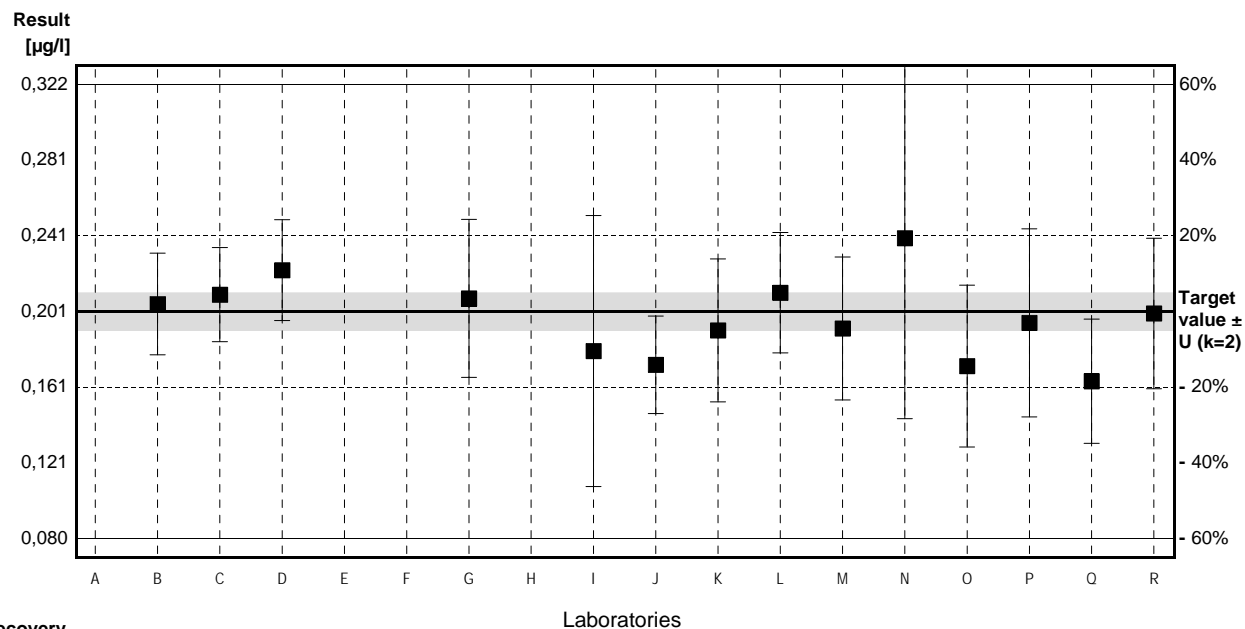


Illustration of Results Laboratory Oriented Part

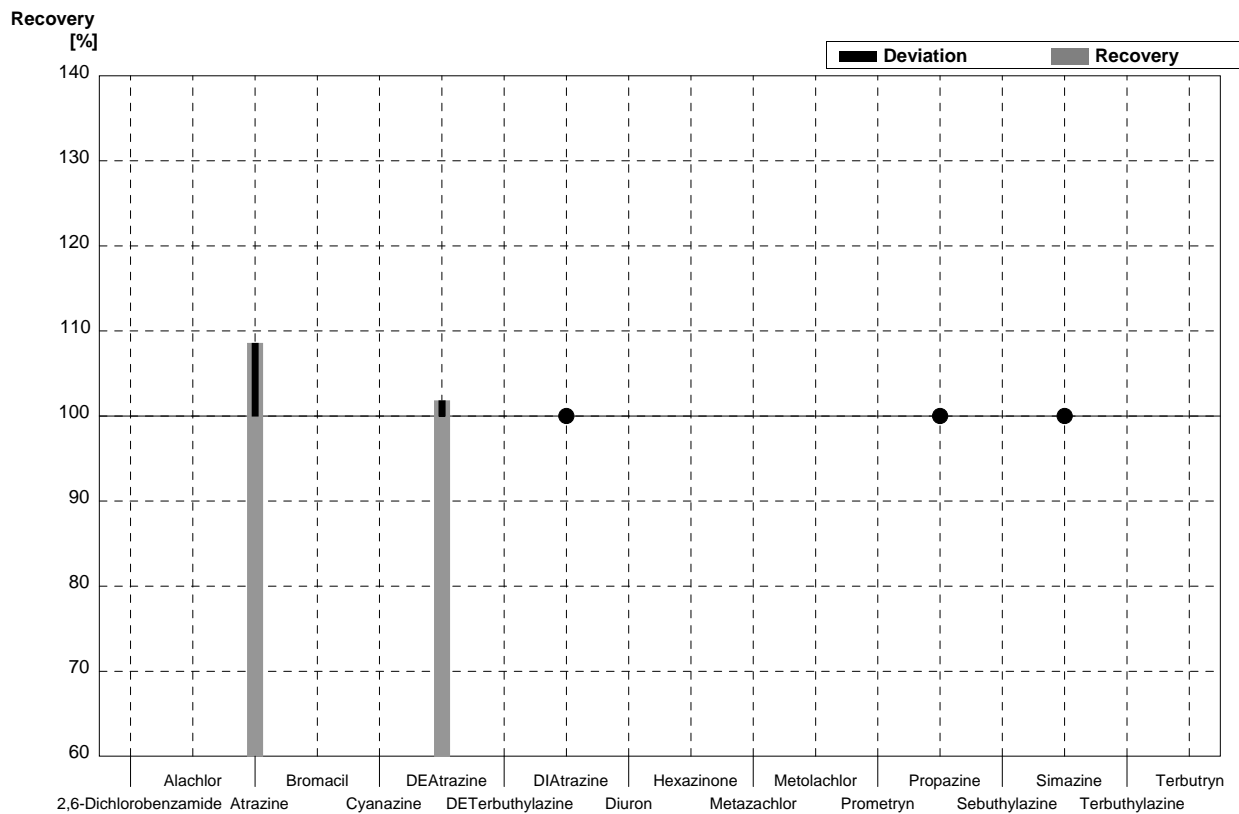
Round HA85
Herbicides

Sample Dispatch: 11 March 2013



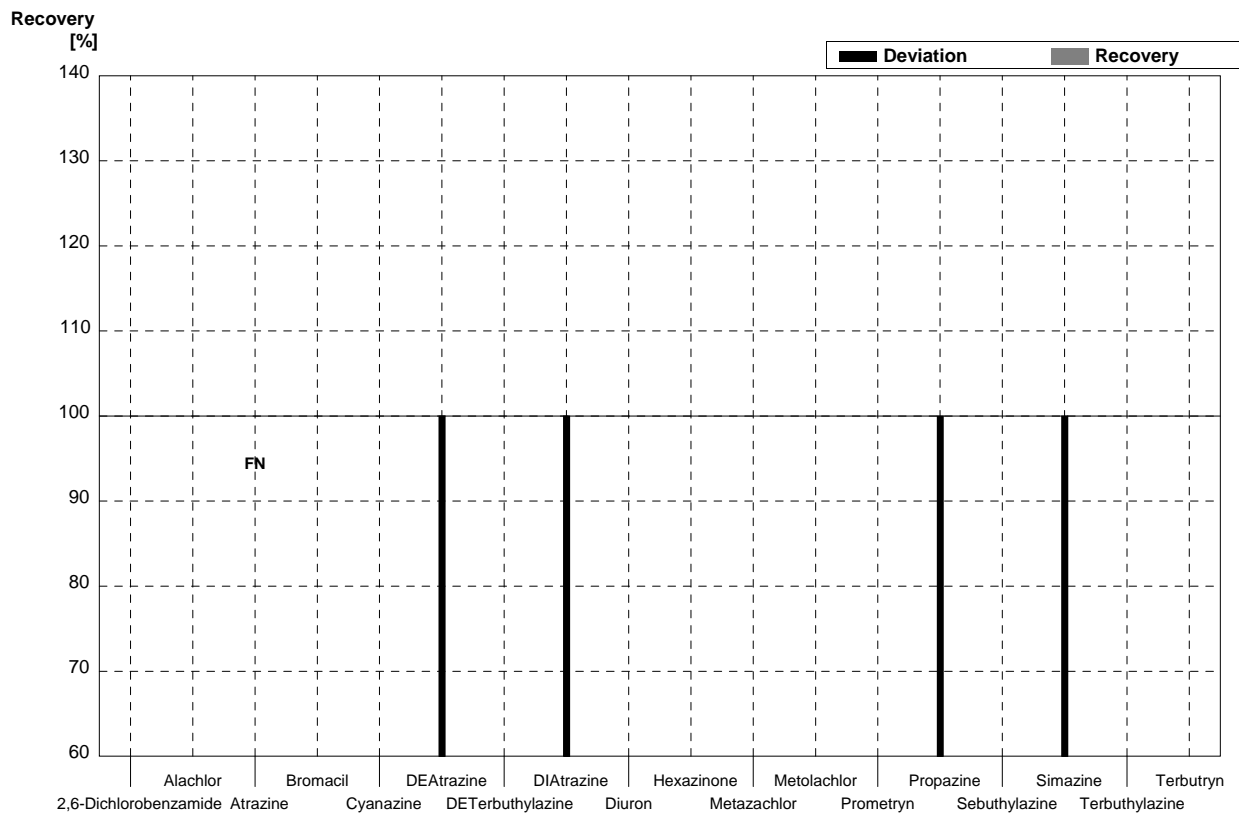
Sample HA85A
Laboratory A

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
2,6-Dichlorobenzamide	0,256	0,013			µg/l	
Alachlor	0,061	0,003			µg/l	
Atrazine	0,199	0,010	0,216	0,030	µg/l	109%
Bromacil	0,168	0,008			µg/l	
Cyanazine	0,232	0,012			µg/l	
DEAtrazine	0,056	0,003	0,057	0,010	µg/l	102%
DETerbutylazine	0,124	0,006			µg/l	
DIAtazine	<0,05		<0,020		µg/l	•
Diuron	0,220	0,011			µg/l	
Hexazinone	0,080	0,004			µg/l	
Metazachlor	0,109	0,005			µg/l	
Metolachlor	0,151	0,008			µg/l	
Prometryn	0,071	0,004			µg/l	
Propazine	<0,05		<0,020		µg/l	•
Sebuthylazine	0,170	0,009			µg/l	
Simazine	<0,05		<0,020		µg/l	•
Terbutylazine	0,100	0,005			µg/l	
Terbutryn	0,141	0,007			µg/l	



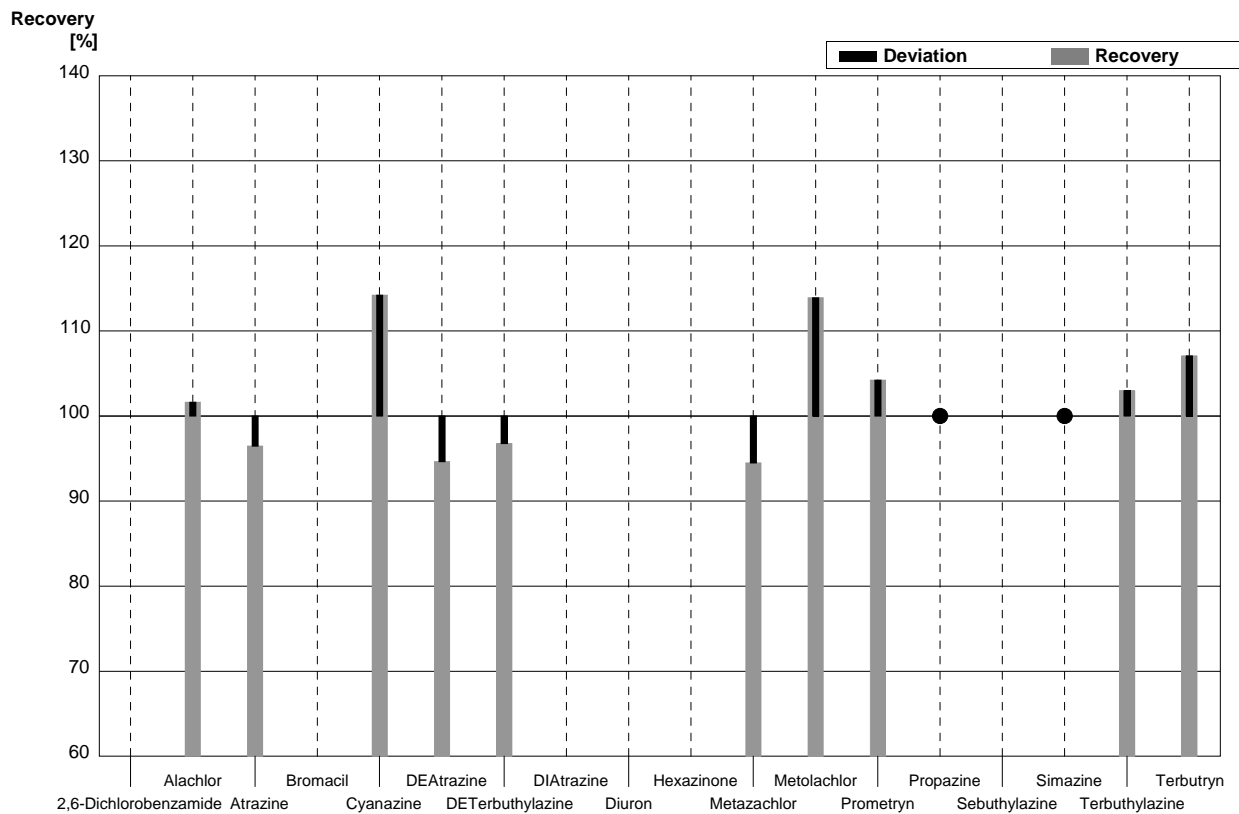
Sample HA85B
Laboratory A

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
2,6-Dichlorobenzamide	0,070	0,004			µg/l	
Alachlor	0,200	0,010			µg/l	
Atrazine	0,079	0,004	<0,020		µg/l	FN
Bromacil	<0,05				µg/l	
Cyanazine	0,151	0,008			µg/l	
DEAtrazine	0,168	0,008	0,024	0,004	µg/l	14%
DETerbutylazine	0,216	0,011			µg/l	
DIAtrazine	0,293	0,015	0,048	0,010	µg/l	16%
Diuron	<0,05				µg/l	
Hexazinone	0,199	0,010			µg/l	
Metazachlor	0,201	0,010			µg/l	
Metolachlor	<0,05				µg/l	
Prometryn	0,136	0,007			µg/l	
Propazine	0,171	0,009	0,024	0,004	µg/l	14%
Sebuthylazine	0,081	0,004			µg/l	
Simazine	0,202	0,010	0,028	0,006	µg/l	14%
Terbutylazine	0,217	0,011			µg/l	
Terbutryn	0,201	0,010			µg/l	



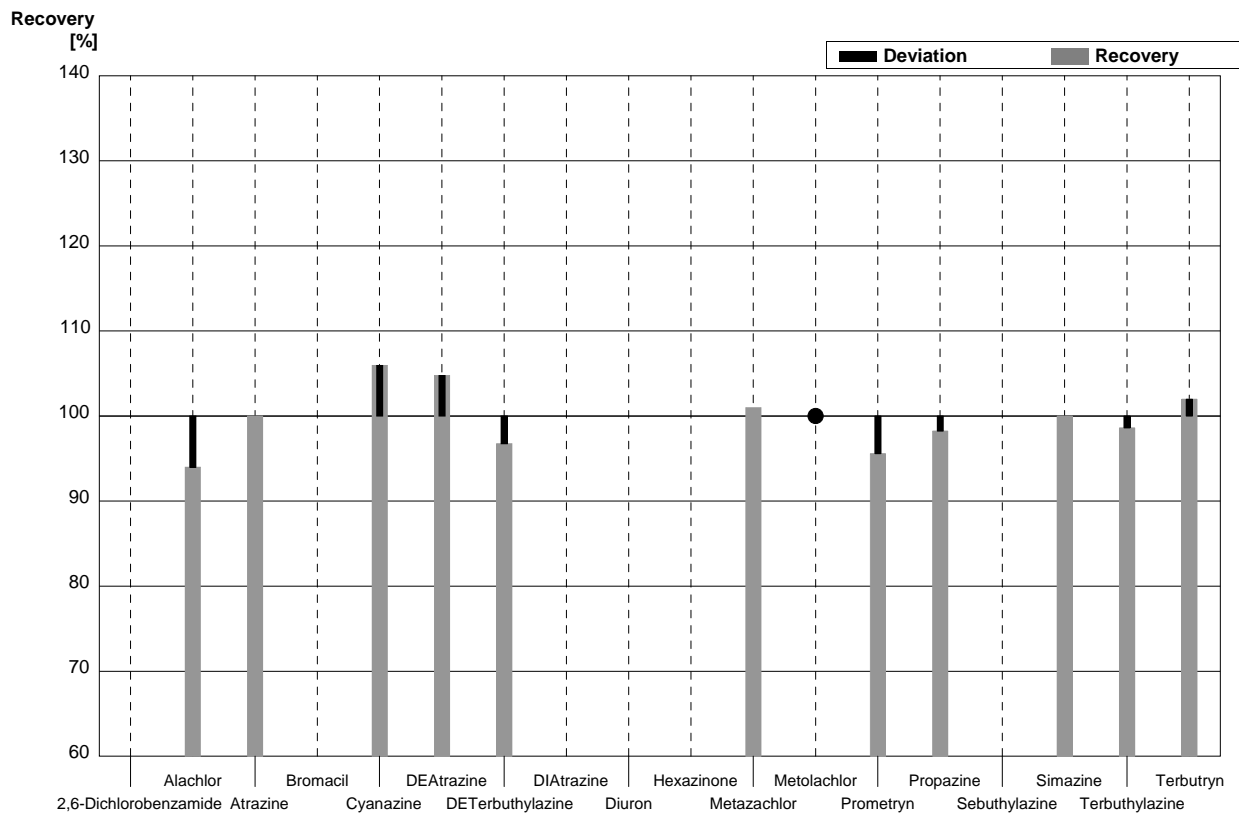
Sample HA85A
Laboratory B

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
2,6-Dichlorobenzamide	0,256	0,013			µg/l	
Alachlor	0,061	0,003	0,062	0,0103	µg/l	102%
Atrazine	0,199	0,010	0,192	0,025	µg/l	96%
Bromacil	0,168	0,008			µg/l	
Cyanazine	0,232	0,012	0,265	0,034	µg/l	114%
DEAtrazine	0,056	0,003	0,053	0,009	µg/l	95%
DETerbutylazine	0,124	0,006	0,12	0,017	µg/l	97%
DIAtrazine	<0,05				µg/l	
Diuron	0,220	0,011			µg/l	
Hexazinone	0,080	0,004			µg/l	
Metazachlor	0,109	0,005	0,103	0,0147	µg/l	94%
Metolachlor	0,151	0,008	0,172	0,023	µg/l	114%
Prometryn	0,071	0,004	0,074	0,0115	µg/l	104%
Propazine	<0,05		<0,01		µg/l	•
Sebuthylazine	0,170	0,009			µg/l	
Simazine	<0,05		<0,01		µg/l	•
Terbutylazine	0,100	0,005	0,103	0,015	µg/l	103%
Terbutryn	0,141	0,007	0,151	0,02	µg/l	107%



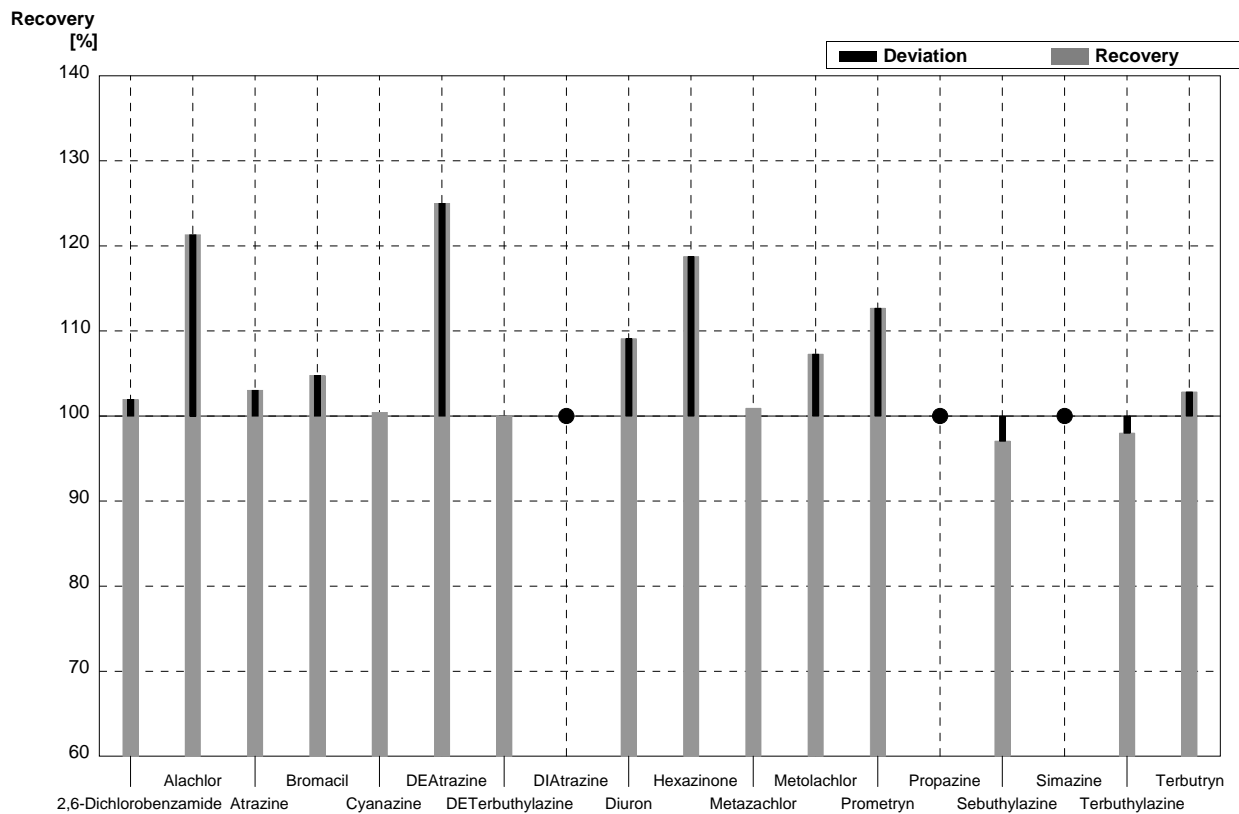
Sample HA85B
Laboratory B

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
2,6-Dichlorobenzamide	0,070	0,004			µg/l	
Alachlor	0,200	0,010	0,188	0,025	µg/l	94%
Atrazine	0,079	0,004	0,079	0,012	µg/l	100%
Bromacil	<0,05				µg/l	
Cyanazine	0,151	0,008	0,16	0,021	µg/l	106%
DEAtrazine	0,168	0,008	0,176	0,023	µg/l	105%
DETerbutylazine	0,216	0,011	0,209	0,027	µg/l	97%
DIAtrazine	0,293	0,015			µg/l	
Diuron	<0,05				µg/l	
Hexazinone	0,199	0,010			µg/l	
Metazachlor	0,201	0,010	0,203	0,0267	µg/l	101%
Metolachlor	<0,05		<0,01		µg/l	•
Prometryn	0,136	0,007	0,13	0,018	µg/l	96%
Propazine	0,171	0,009	0,168	0,022	µg/l	98%
Sebuthylazine	0,081	0,004			µg/l	
Simazine	0,202	0,010	0,202	0,027	µg/l	100%
Terbutylazine	0,217	0,011	0,214	0,028	µg/l	99%
Terbutryn	0,201	0,010	0,205	0,027	µg/l	102%



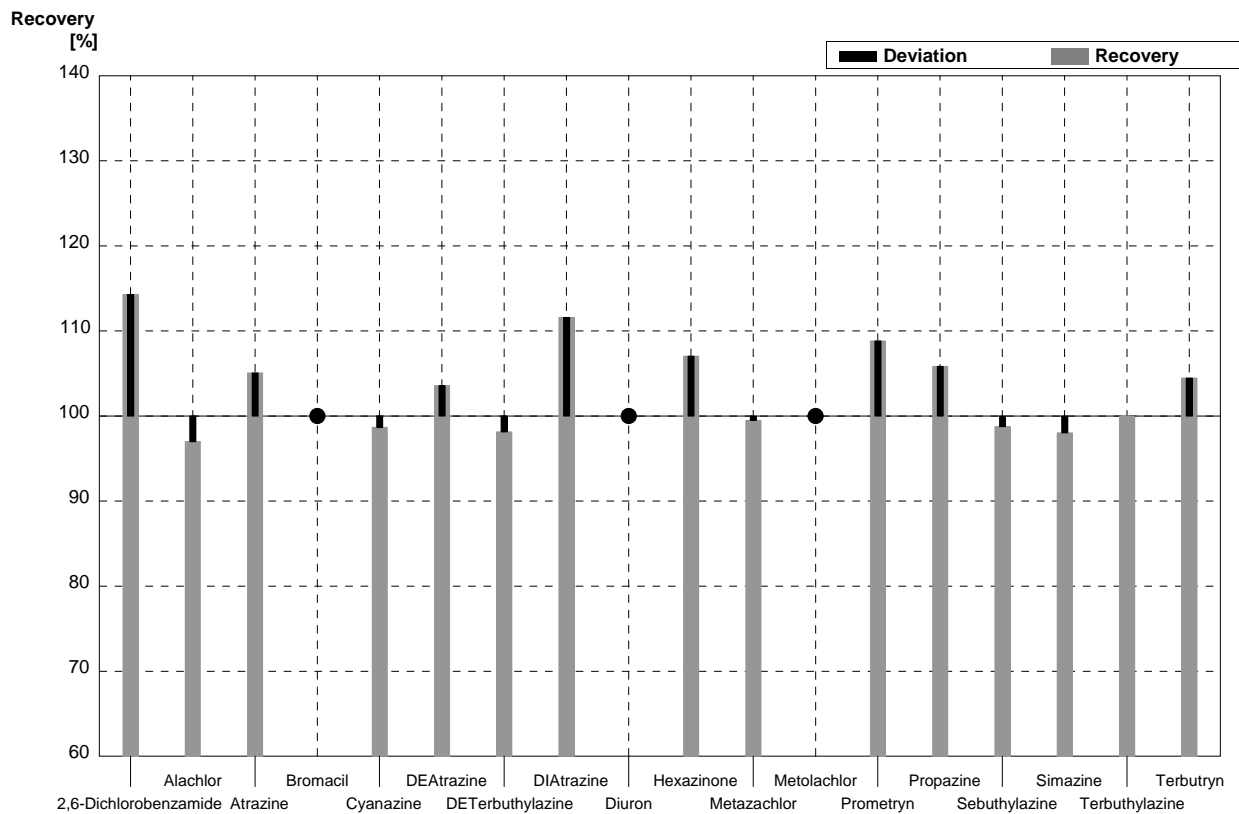
Sample HA85A
Laboratory C

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
2,6-Dichlorobenzamide	0,256	0,013	0,261	0,03	µg/l	102%
Alachlor	0,061	0,003	0,074	0,01	µg/l	121%
Atrazine	0,199	0,010	0,205	0,02	µg/l	103%
Bromacil	0,168	0,008	0,176	0,02	µg/l	105%
Cyanazine	0,232	0,012	0,233	0,025	µg/l	100%
DEAtrazine	0,056	0,003	0,070	0,01	µg/l	125%
DETerbutylazine	0,124	0,006	0,124	0,015	µg/l	100%
DIAtrazine	<0,05		<0,05		µg/l	•
Diuron	0,220	0,011	0,240	0,025	µg/l	109%
Hexazinone	0,080	0,004	0,095	0,01	µg/l	119%
Metazachlor	0,109	0,005	0,110	0,015	µg/l	101%
Metolachlor	0,151	0,008	0,162	0,02	µg/l	107%
Prometryn	0,071	0,004	0,080	0,01	µg/l	113%
Propazine	<0,05		<0,05		µg/l	•
Sebuthylazine	0,170	0,009	0,165	0,02	µg/l	97%
Simazine	<0,05		<0,05		µg/l	•
Terbutylazine	0,100	0,005	0,098	0,01	µg/l	98%
Terbutryn	0,141	0,007	0,145	0,015	µg/l	103%



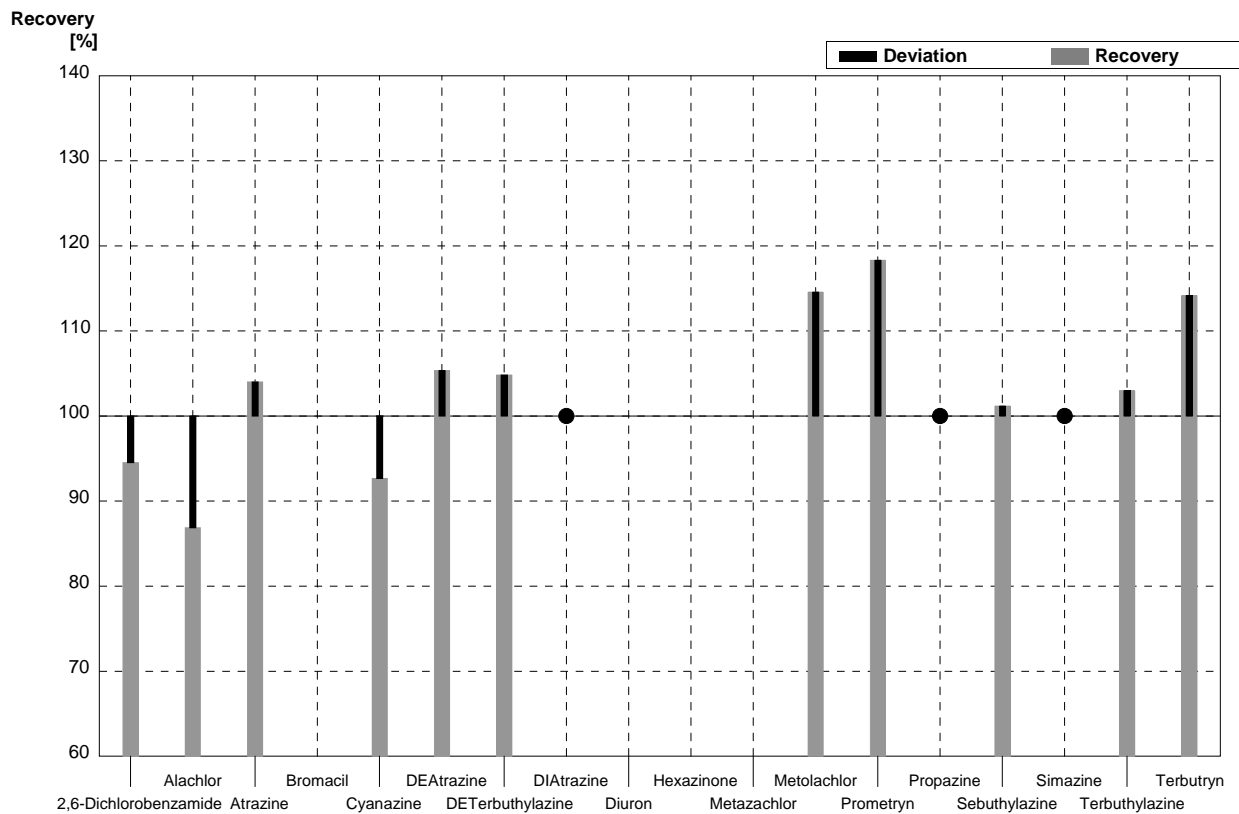
Sample HA85B
Laboratory C

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
2,6-Dichlorobenzamide	0,070	0,004	0,080	0,01	µg/l	114%
Alachlor	0,200	0,010	0,194	0,02	µg/l	97%
Atrazine	0,079	0,004	0,083	0,01	µg/l	105%
Bromacil	<0,05		<0,05		µg/l	•
Cyanazine	0,151	0,008	0,149	0,015	µg/l	99%
DEAtrazine	0,168	0,008	0,174	0,02	µg/l	104%
DETerbutylazine	0,216	0,011	0,212	0,025	µg/l	98%
DIAtrazine	0,293	0,015	0,327	0,035	µg/l	112%
Diuron	<0,05		<0,05		µg/l	•
Hexazinone	0,199	0,010	0,213	0,025	µg/l	107%
Metazachlor	0,201	0,010	0,200	0,02	µg/l	100%
Metolachlor	<0,05		<0,05		µg/l	•
Prometryn	0,136	0,007	0,148	0,02	µg/l	109%
Propazine	0,171	0,009	0,181	0,02	µg/l	106%
Sebuthylazine	0,081	0,004	0,080	0,01	µg/l	99%
Simazine	0,202	0,010	0,198	0,02	µg/l	98%
Terbutylazine	0,217	0,011	0,217	0,025	µg/l	100%
Terbutryn	0,201	0,010	0,210	0,025	µg/l	104%



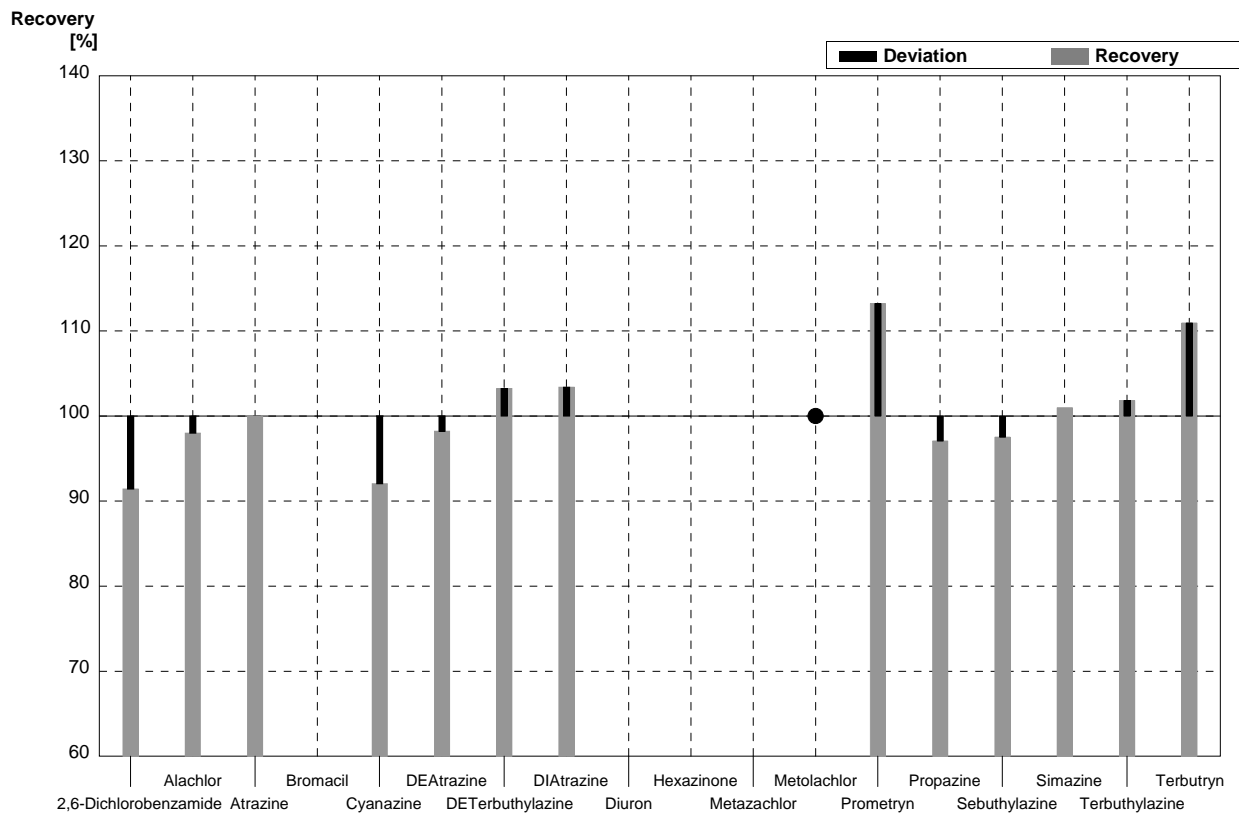
Sample HA85A
Laboratory D

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
2,6-Dichlorobenzamide	0,256	0,013	0,242	0,0093	µg/l	95%
Alachlor	0,061	0,003	0,053	0,0173	µg/l	87%
Atrazine	0,199	0,010	0,207	0,0067	µg/l	104%
Bromacil	0,168	0,008			µg/l	
Cyanazine	0,232	0,012	0,215	0,0107	µg/l	93%
DEAtrazine	0,056	0,003	0,059	0,0101	µg/l	105%
DETerbutylazine	0,124	0,006	0,130	0,0099	µg/l	105%
DIAtazine	<0,05		<0,03		µg/l	•
Diuron	0,220	0,011			µg/l	
Hexazinone	0,080	0,004			µg/l	
Metazachlor	0,109	0,005			µg/l	
Metolachlor	0,151	0,008	0,173	0,0145	µg/l	115%
Prometryn	0,071	0,004	0,084	0,0222	µg/l	118%
Propazine	<0,05		<0,03		µg/l	•
Sebuthylazine	0,170	0,009	0,172	0,0067	µg/l	101%
Simazine	<0,05		<0,03		µg/l	•
Terbutylazine	0,100	0,005	0,103	0,0075	µg/l	103%
Terbutryn	0,141	0,007	0,161	0,0269	µg/l	114%



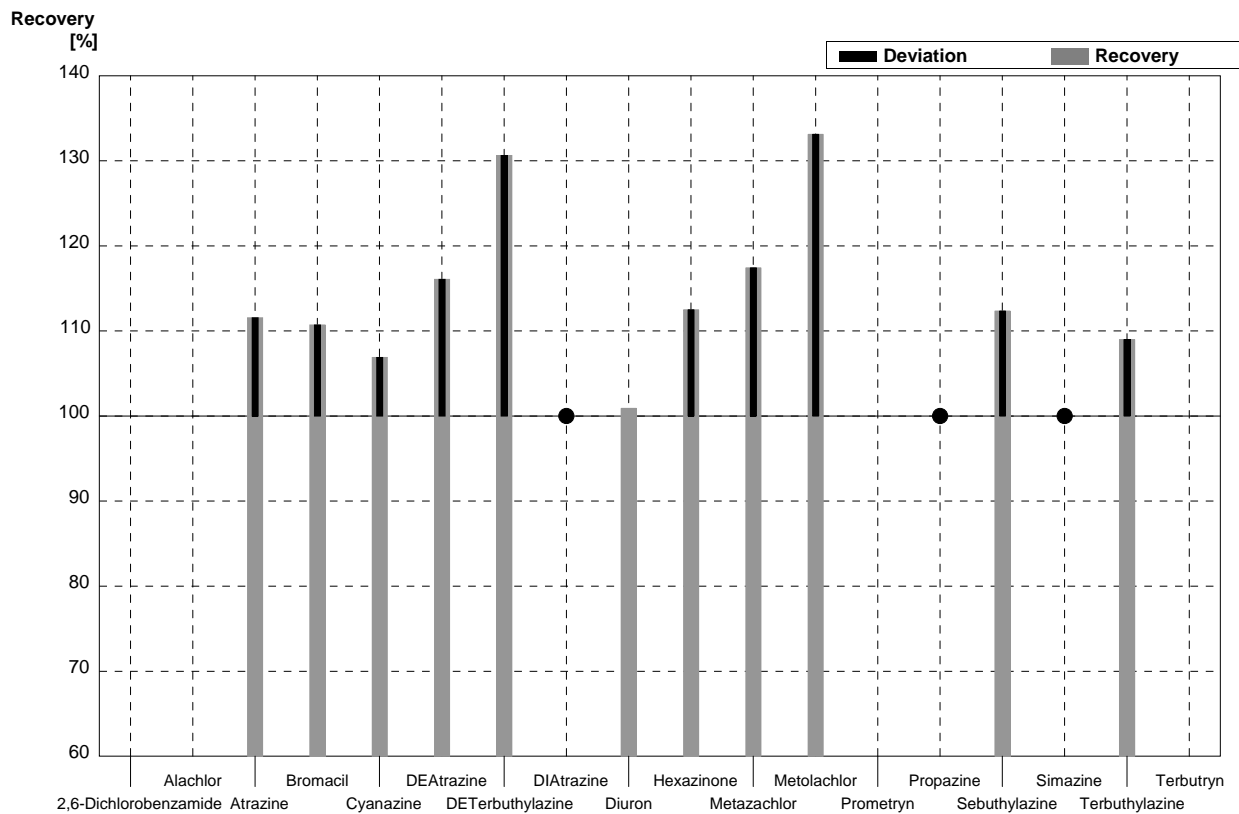
Sample HA85B
Laboratory D

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
2,6-Dichlorobenzamide	0,070	0,004	0,064	0,0095	µg/l	91%
Alachlor	0,200	0,010	0,196	0,0168	µg/l	98%
Atrazine	0,079	0,004	0,079	0,0069	µg/l	100%
Bromacil	<0,05				µg/l	
Cyanazine	0,151	0,008	0,139	0,0108	µg/l	92%
DEAtrazine	0,168	0,008	0,165	0,0098	µg/l	98%
DETerbutylazine	0,216	0,011	0,223	0,0099	µg/l	103%
DIAtrazine	0,293	0,015	0,303	0,0086	µg/l	103%
Diuron	<0,05				µg/l	
Hexazinone	0,199	0,010			µg/l	
Metazachlor	0,201	0,010			µg/l	
Metolachlor	<0,05		<0,03		µg/l	•
Prometryn	0,136	0,007	0,154	0,0219	µg/l	113%
Propazine	0,171	0,009	0,166	0,0054	µg/l	97%
Sebuthylazine	0,081	0,004	0,079	0,0068	µg/l	98%
Simazine	0,202	0,010	0,204	0,0088	µg/l	101%
Terbutylazine	0,217	0,011	0,221	0,0073	µg/l	102%
Terbutryn	0,201	0,010	0,223	0,0268	µg/l	111%



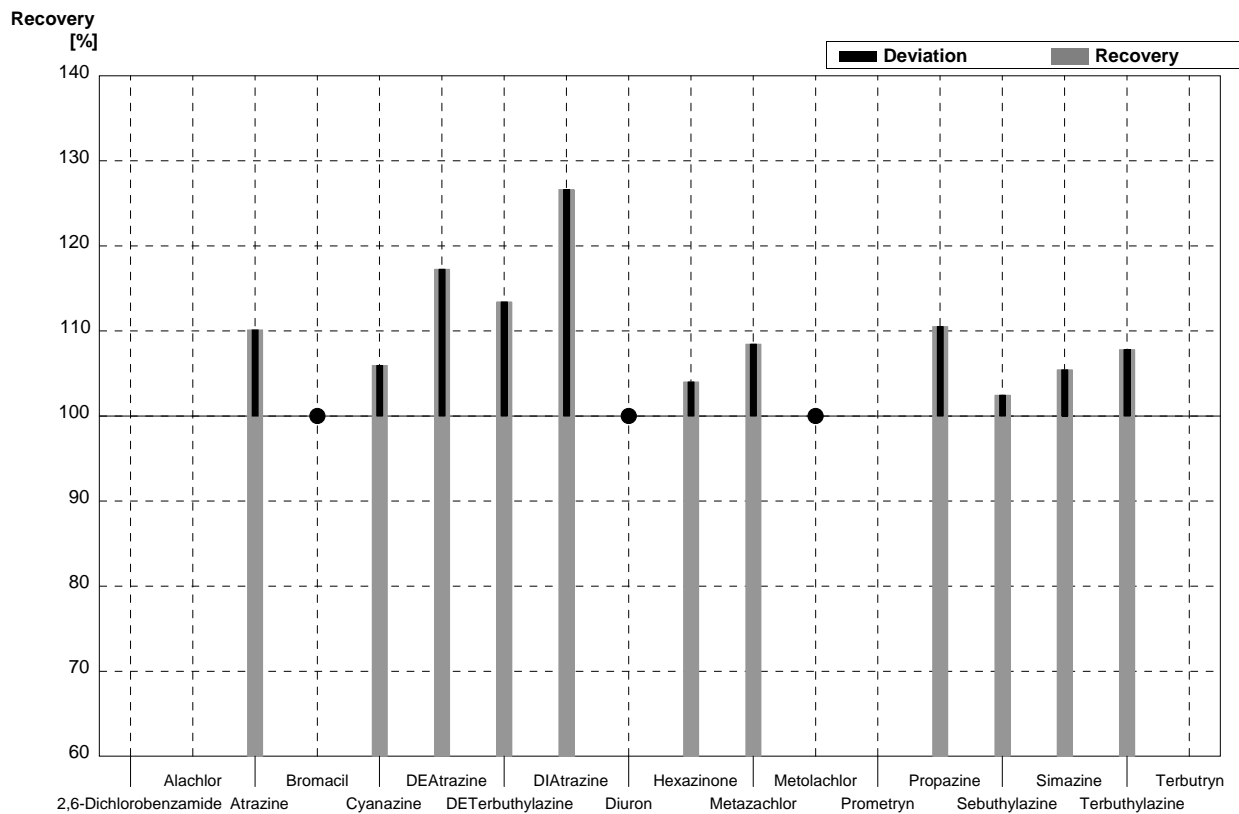
Sample HA85A
Laboratory E

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
2,6-Dichlorobenzamide	0,256	0,013			µg/l	
Alachlor	0,061	0,003			µg/l	
Atrazine	0,199	0,010	0,222	0,007	µg/l	112%
Bromacil	0,168	0,008	0,186	0,007	µg/l	111%
Cyanazine	0,232	0,012	0,248	0,002	µg/l	107%
DEAtrazine	0,056	0,003	0,065	0,003	µg/l	116%
DETerbutylazine	0,124	0,006	0,162	0,017	µg/l	131%
DIAtrazine	<0,05		<0,011		µg/l	•
Diuron	0,220	0,011	0,222	0,006	µg/l	101%
Hexazinone	0,080	0,004	0,090	0,003	µg/l	113%
Metazachlor	0,109	0,005	0,128	0,011	µg/l	117%
Metolachlor	0,151	0,008	0,201	0,014	µg/l	133%
Prometryn	0,071	0,004			µg/l	
Propazine	<0,05		<0,010		µg/l	•
Sebuthylazine	0,170	0,009	0,191	0,007	µg/l	112%
Simazine	<0,05		<0,022		µg/l	•
Terbutylazine	0,100	0,005	0,109	0,001	µg/l	109%
Terbutryn	0,141	0,007			µg/l	



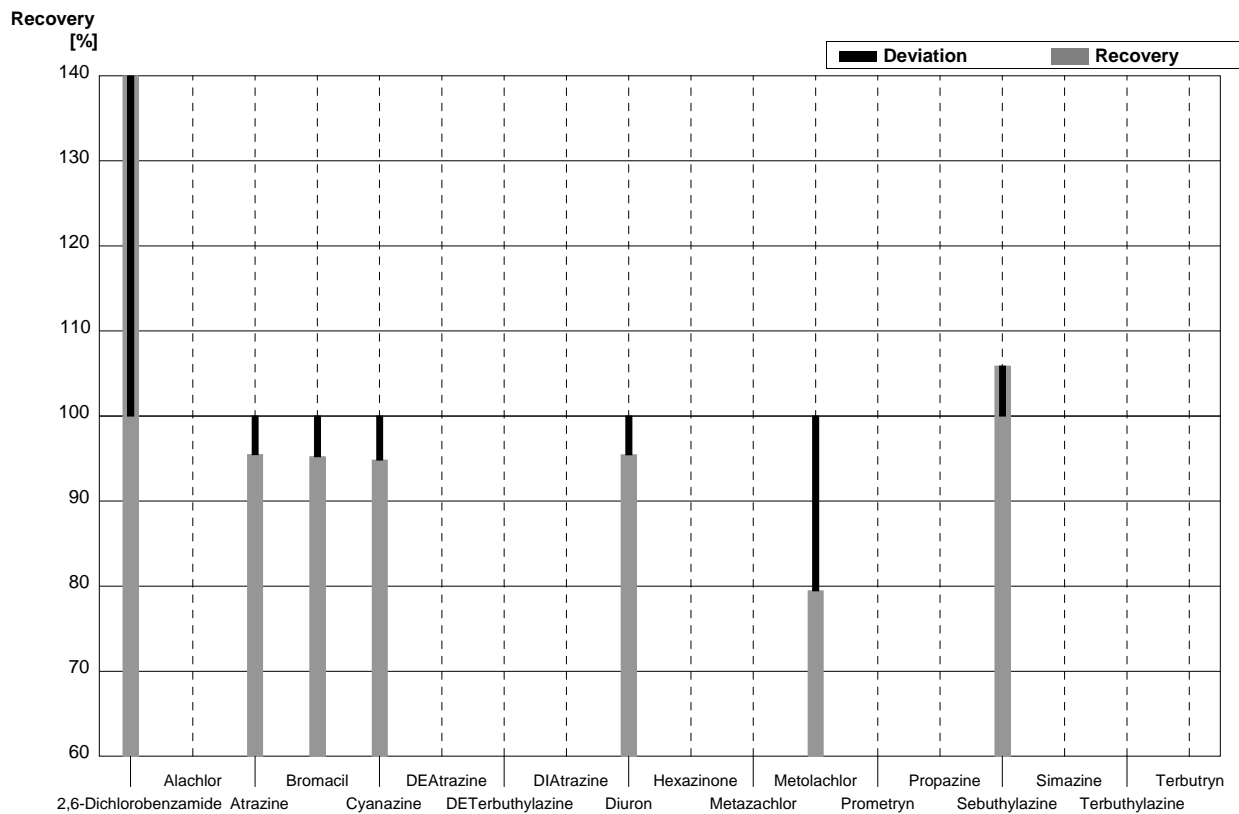
Sample HA85B
Laboratory E

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
2,6-Dichlorobenzamide	0,070	0,004			µg/l	
Alachlor	0,200	0,010			µg/l	
Atrazine	0,079	0,004	0,087	0,001	µg/l	110%
Bromacil	<0,05		<0,010		µg/l	•
Cyanazine	0,151	0,008	0,160	0,004	µg/l	106%
DEAtrazine	0,168	0,008	0,197	0,005	µg/l	117%
DETerbutylazine	0,216	0,011	0,245	0,002	µg/l	113%
DIAtrazine	0,293	0,015	0,371	0,023	µg/l	127%
Diuron	<0,05		<0,009		µg/l	•
Hexazinone	0,199	0,010	0,207	0,003	µg/l	104%
Metazachlor	0,201	0,010	0,218	0,005	µg/l	108%
Metolachlor	<0,05		<0,010		µg/l	•
Prometryn	0,136	0,007			µg/l	
Propazine	0,171	0,009	0,189	0,004	µg/l	111%
Sebuthylazine	0,081	0,004	0,083	0,008	µg/l	102%
Simazine	0,202	0,010	0,213	0,002	µg/l	105%
Terbutylazine	0,217	0,011	0,234	0,006	µg/l	108%
Terbutryn	0,201	0,010			µg/l	



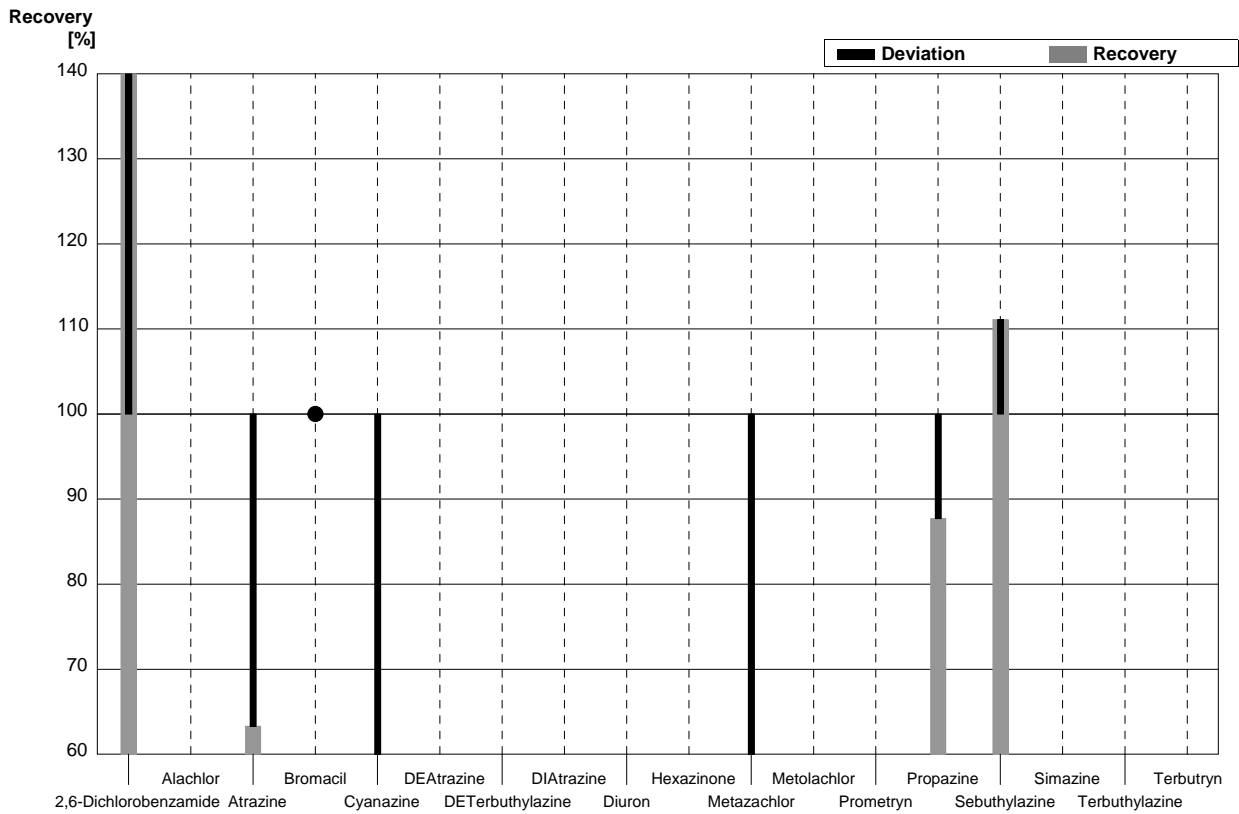
Sample HA85A
Laboratory F

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
2,6-Dichlorobenzamide	0,256	0,013	0,49	0,107	µg/l	191%
Alachlor	0,061	0,003			µg/l	
Atrazine	0,199	0,010	0,19	0,042	µg/l	95%
Bromacil	0,168	0,008	0,16	0,035	µg/l	95%
Cyanazine	0,232	0,012	0,22	0,048	µg/l	95%
DEAtrazine	0,056	0,003			µg/l	
DETerbutylazine	0,124	0,006			µg/l	
DIAtrazine	<0,05				µg/l	
Diuron	0,220	0,011	0,21	0,047	µg/l	95%
Hexazinone	0,080	0,004			µg/l	
Metazachlor	0,109	0,005			µg/l	
Metolachlor	0,151	0,008	0,12	0,026	µg/l	79%
Prometryn	0,071	0,004			µg/l	
Propazine	<0,05				µg/l	
Sebuthylazine	0,170	0,009	0,18	0,040	µg/l	106%
Simazine	<0,05				µg/l	
Terbutylazine	0,100	0,005			µg/l	
Terbutryn	0,141	0,007			µg/l	



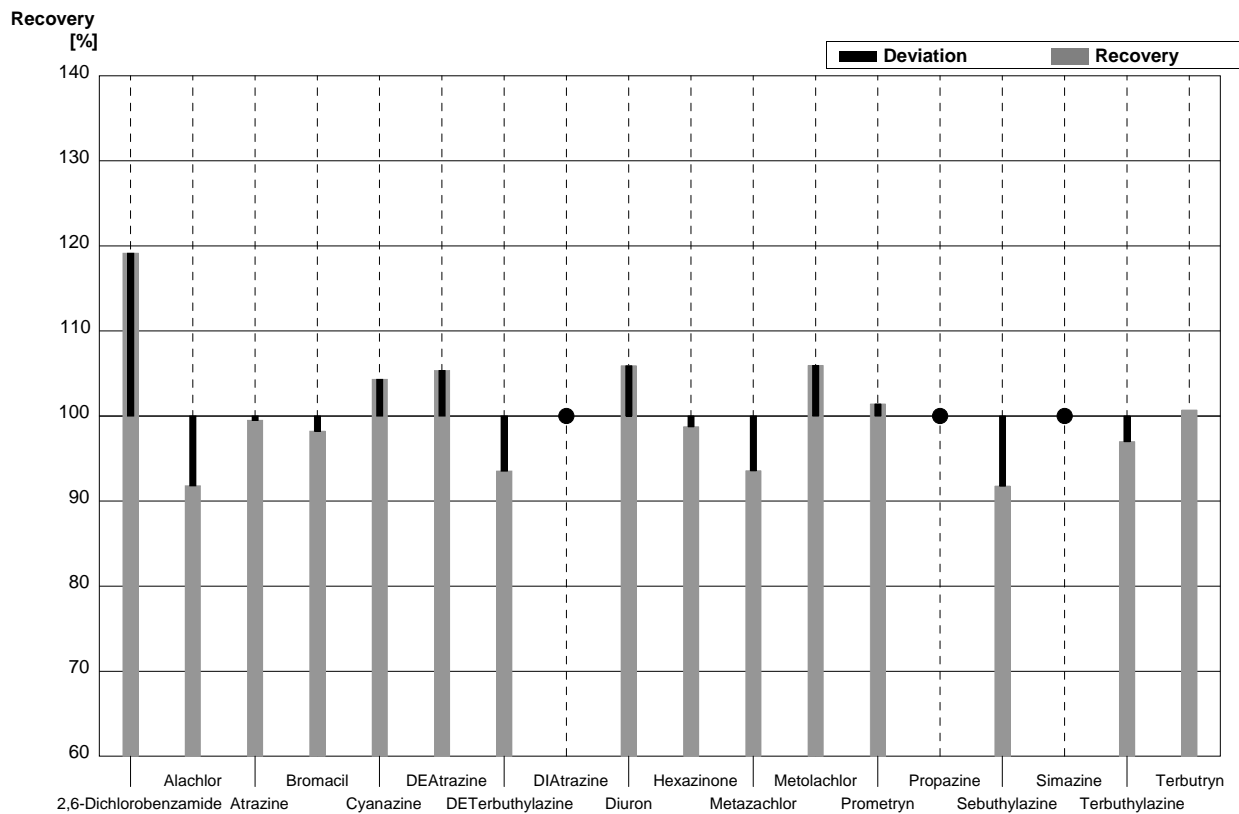
Sample HA85B
Laboratory F

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
2,6-Dichlorobenzamide	0,070	0,004	0,11	0,024	µg/l	157%
Alachlor	0,200	0,010			µg/l	
Atrazine	0,079	0,004	0,05	0,011	µg/l	63%
Bromacil	<0,05		<0,05		µg/l	•
Cyanazine	0,151	0,008	0,08	0,017	µg/l	53%
DEAtrazine	0,168	0,008			µg/l	
DETerbutylazine	0,216	0,011			µg/l	
DIAtrazine	0,293	0,015			µg/l	
Diuron	<0,05				µg/l	
Hexazinone	0,199	0,010			µg/l	
Metazachlor	0,201	0,010	0,12	0,026	µg/l	60%
Metolachlor	<0,05				µg/l	
Prometryn	0,136	0,007			µg/l	
Propazine	0,171	0,009	0,15	0,034	µg/l	88%
Sebuthylazine	0,081	0,004	0,09	0,019	µg/l	111%
Simazine	0,202	0,010			µg/l	
Terbutylazine	0,217	0,011			µg/l	
Terbutryn	0,201	0,010			µg/l	



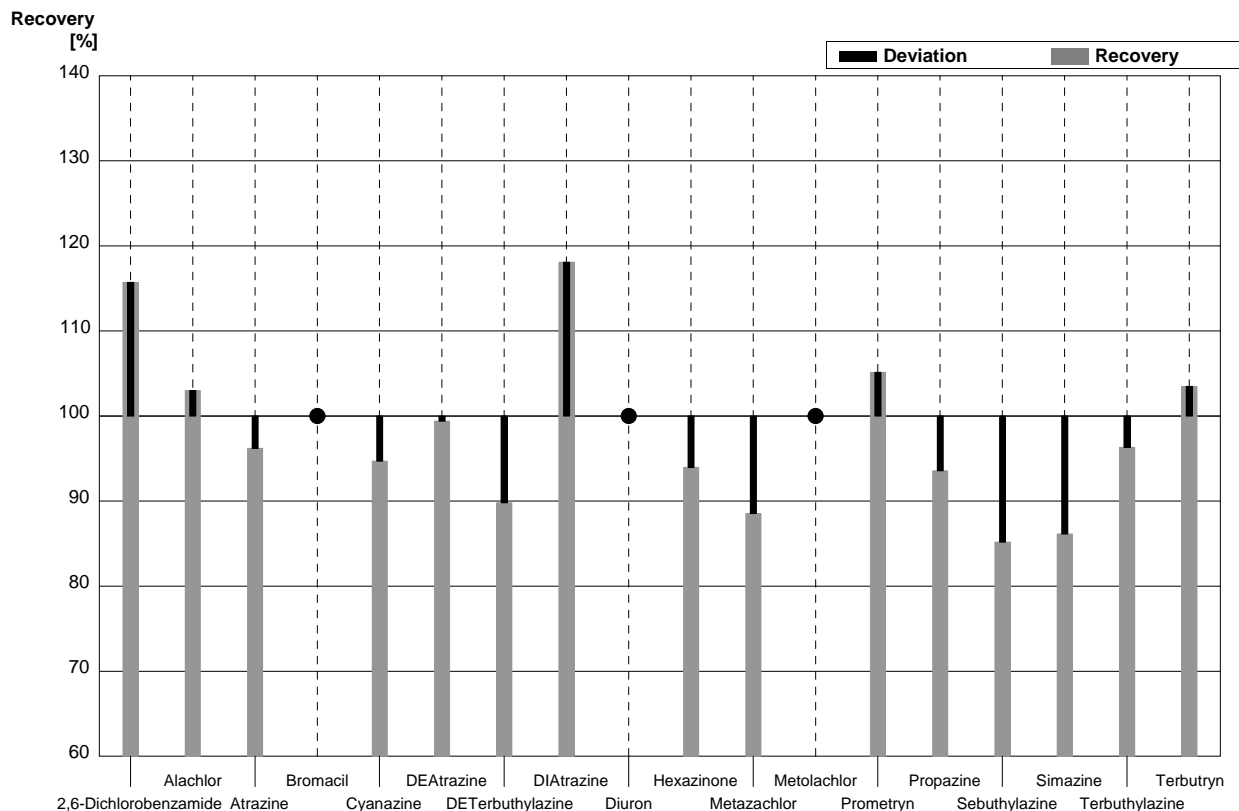
Sample HA85A
Laboratory G

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
2,6-Dichlorobenzamide	0,256	0,013	0,305	0,076	µg/l	119%
Alachlor	0,061	0,003	0,056	0,011	µg/l	92%
Atrazine	0,199	0,010	0,198	0,030	µg/l	99%
Bromacil	0,168	0,008	0,165	0,050	µg/l	98%
Cyanazine	0,232	0,012	0,242	0,073	µg/l	104%
DEAtrazine	0,056	0,003	0,059	0,012	µg/l	105%
DETerbutylazine	0,124	0,006	0,116	0,023	µg/l	94%
DIAtrazine	<0,05		<0,030		µg/l	•
Diuron	0,220	0,011	0,233	0,035	µg/l	106%
Hexazinone	0,080	0,004	0,079	0,024	µg/l	99%
Metazachlor	0,109	0,005	0,102	0,020	µg/l	94%
Metolachlor	0,151	0,008	0,160	0,024	µg/l	106%
Prometryn	0,071	0,004	0,072	0,014	µg/l	101%
Propazine	<0,05		<0,010		µg/l	•
Sebuthylazine	0,170	0,009	0,156	0,023	µg/l	92%
Simazine	<0,05		<0,010		µg/l	•
Terbutylazine	0,100	0,005	0,097	0,015	µg/l	97%
Terbutryn	0,141	0,007	0,142	0,028	µg/l	101%



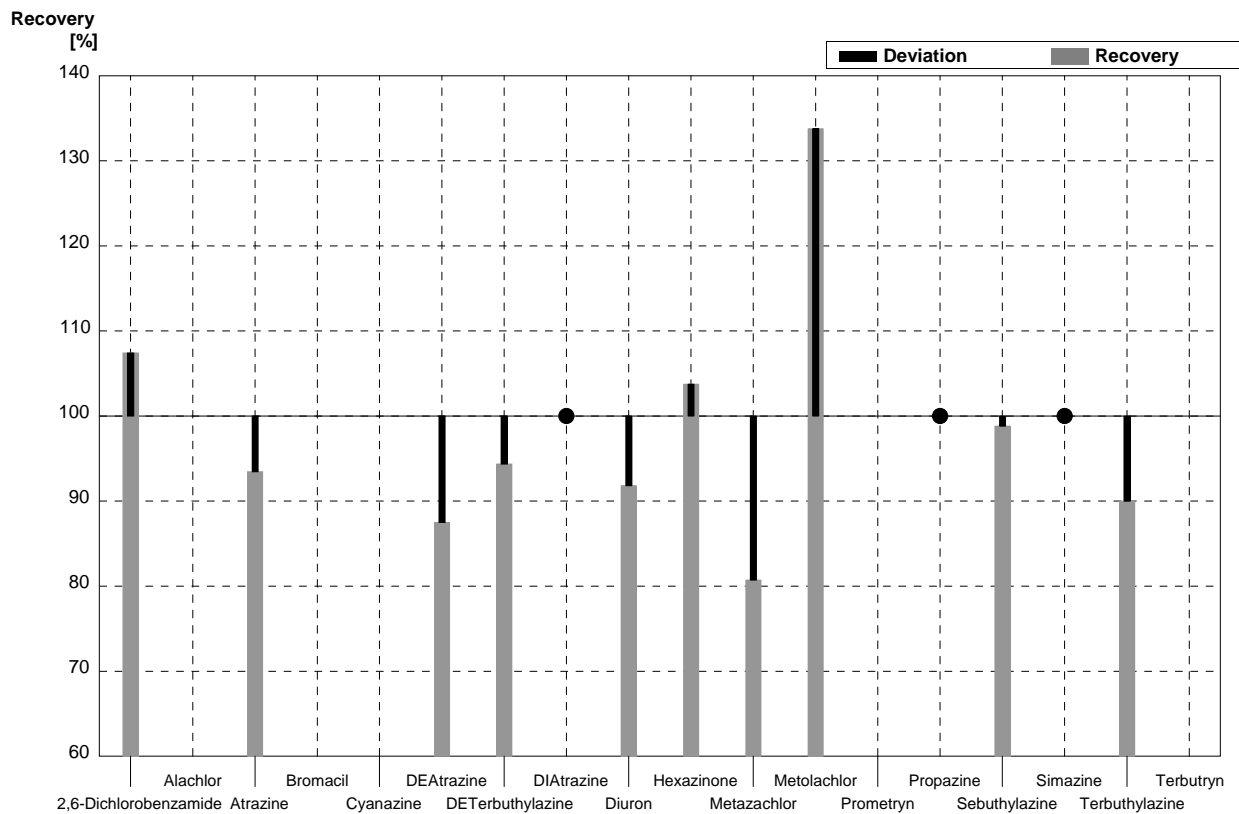
Sample HA85B
Laboratory G

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
2,6-Dichlorobenzamide	0,070	0,004	0,081	0,020	µg/l	116%
Alachlor	0,200	0,010	0,206	0,041	µg/l	103%
Atrazine	0,079	0,004	0,076	0,011	µg/l	96%
Bromacil	<0,05		<0,030		µg/l	•
Cyanazine	0,151	0,008	0,143	0,043	µg/l	95%
DEAtrazine	0,168	0,008	0,167	0,033	µg/l	99%
DETerbutylazine	0,216	0,011	0,194	0,039	µg/l	90%
DIAtrazine	0,293	0,015	0,346	0,104	µg/l	118%
Diuron	<0,05		<0,020		µg/l	•
Hexazinone	0,199	0,010	0,187	0,056	µg/l	94%
Metazachlor	0,201	0,010	0,178	0,036	µg/l	89%
Metolachlor	<0,05		<0,010		µg/l	•
Prometryn	0,136	0,007	0,143	0,029	µg/l	105%
Propazine	0,171	0,009	0,160	0,024	µg/l	94%
Sebuthylazine	0,081	0,004	0,069	0,010	µg/l	85%
Simazine	0,202	0,010	0,174	0,035	µg/l	86%
Terbutylazine	0,217	0,011	0,209	0,031	µg/l	96%
Terbutryn	0,201	0,010	0,208	0,042	µg/l	103%



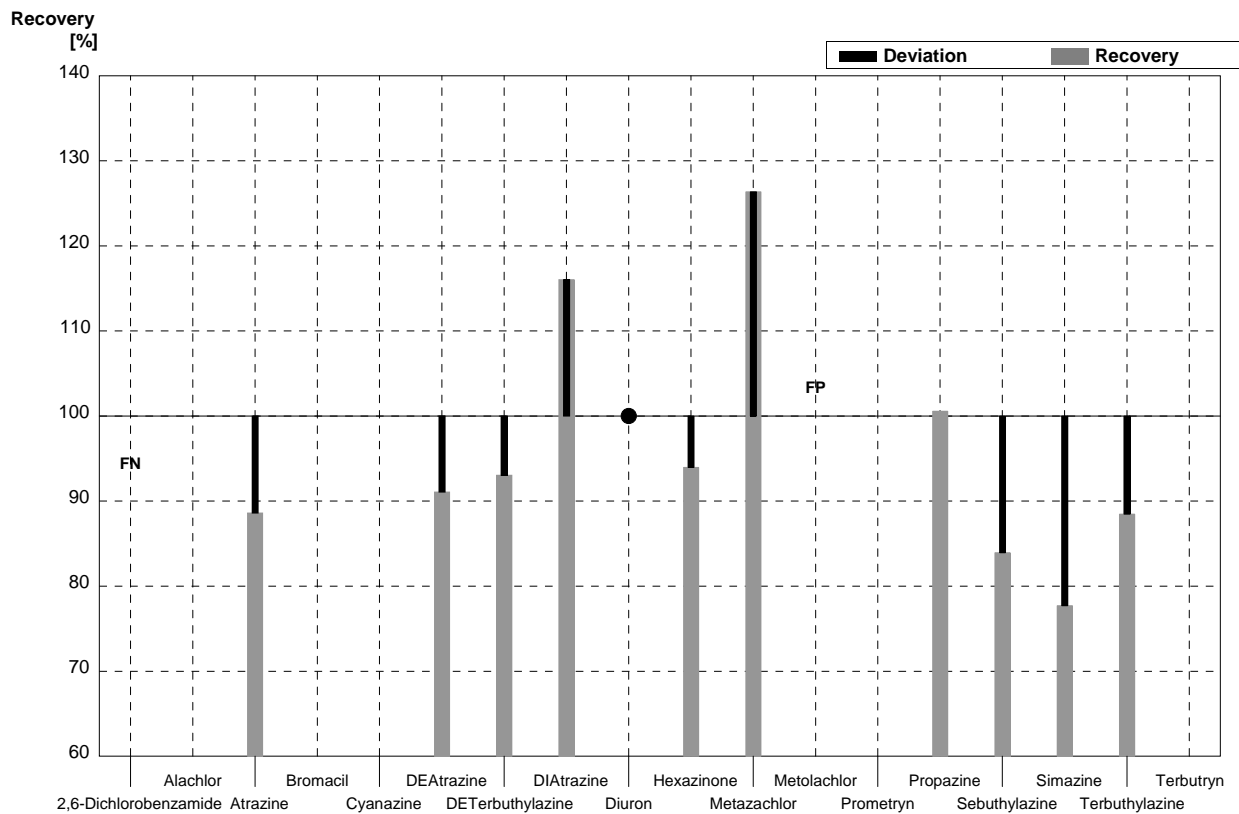
Sample HA85A
Laboratory H

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
2,6-Dichlorobenzamide	0,256	0,013	0,275	0,041	µg/l	107%
Alachlor	0,061	0,003	n,b.		µg/l	
Atrazine	0,199	0,010	0,186	0,028	µg/l	93%
Bromacil	0,168	0,008	n,b.		µg/l	
Cyanazine	0,232	0,012	n,b.		µg/l	
DEAtrazine	0,056	0,003	0,049	0,07	µg/l	88%
DETerbutylazine	0,124	0,006	0,117	0,018	µg/l	94%
DIAtrazine	<0,05		<0,03		µg/l	•
Diuron	0,220	0,011	0,202	0,03	µg/l	92%
Hexazinone	0,080	0,004	0,083	0,012	µg/l	104%
Metazachlor	0,109	0,005	0,088	0,013	µg/l	81%
Metolachlor	0,151	0,008	0,202	0,03	µg/l	134%
Prometryn	0,071	0,004	n,b.		µg/l	
Propazine	<0,05		<0,03		µg/l	•
Sebuthylazine	0,170	0,009	0,168	0,025	µg/l	99%
Simazine	<0,05		<0,03		µg/l	•
Terbutylazine	0,100	0,005	0,090	0,014	µg/l	90%
Terbutryn	0,141	0,007	n,b.		µg/l	



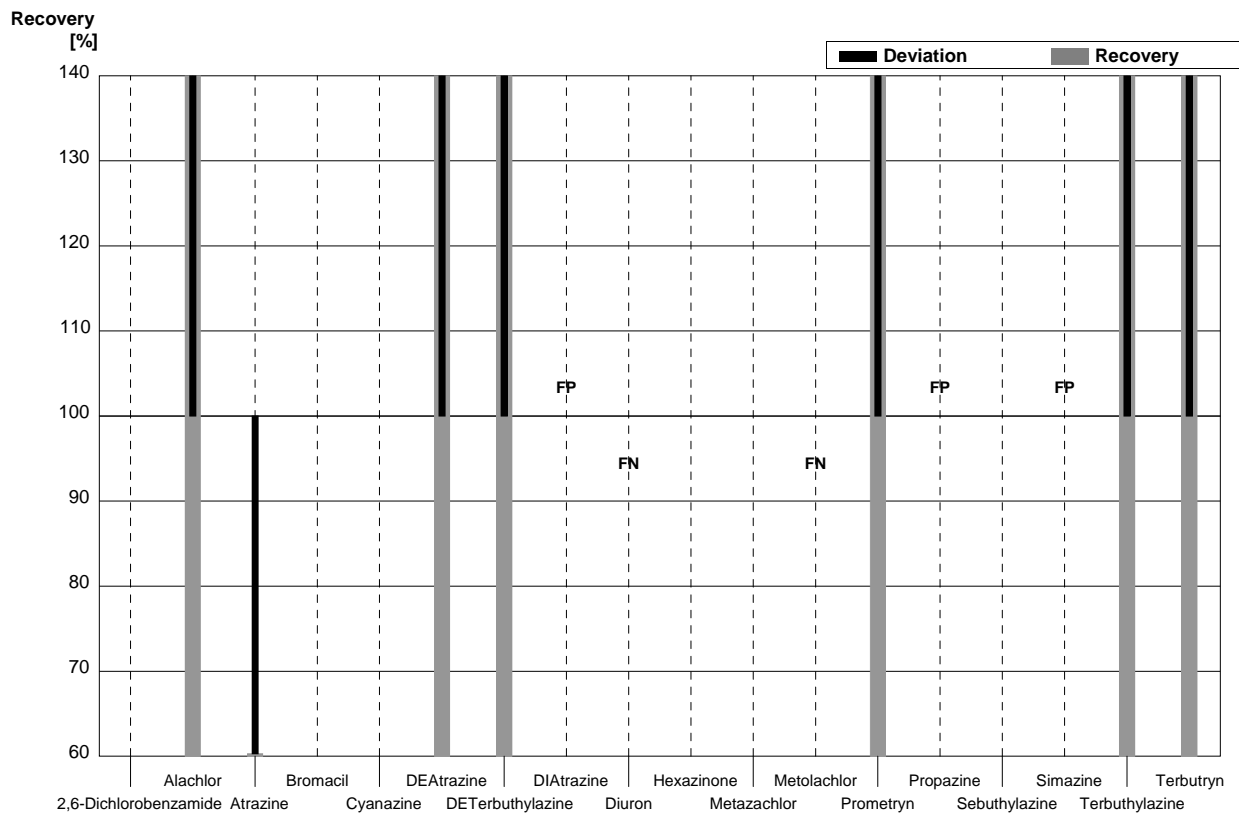
Sample HA85B
Laboratory H

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
2,6-Dichlorobenzamide	0,070	0,004	<0,03		µg/l	FN
Alachlor	0,200	0,010	n,b.		µg/l	
Atrazine	0,079	0,004	0,070	0,011	µg/l	89%
Bromacil	<0,05		n,b.		µg/l	
Cyanazine	0,151	0,008	n,b.		µg/l	
DEAtrazine	0,168	0,008	0,153	0,023	µg/l	91%
DETerbutylazine	0,216	0,011	0,201	0,03	µg/l	93%
DIAtrazine	0,293	0,015	0,340	0,051	µg/l	116%
Diuron	<0,05		<0,03		µg/l	•
Hexazinone	0,199	0,010	0,187	0,028	µg/l	94%
Metazachlor	0,201	0,010	0,254	0,038	µg/l	126%
Metolachlor	<0,05		0,194	0,029	µg/l	FP
Prometryn	0,136	0,007	n,b.		µg/l	
Propazine	0,171	0,009	0,172	0,026	µg/l	101%
Sebuthylazine	0,081	0,004	0,068	0,01	µg/l	84%
Simazine	0,202	0,010	0,157	0,024	µg/l	78%
Terbutylazine	0,217	0,011	0,192	0,029	µg/l	88%
Terbutryn	0,201	0,010	n,b.		µg/l	



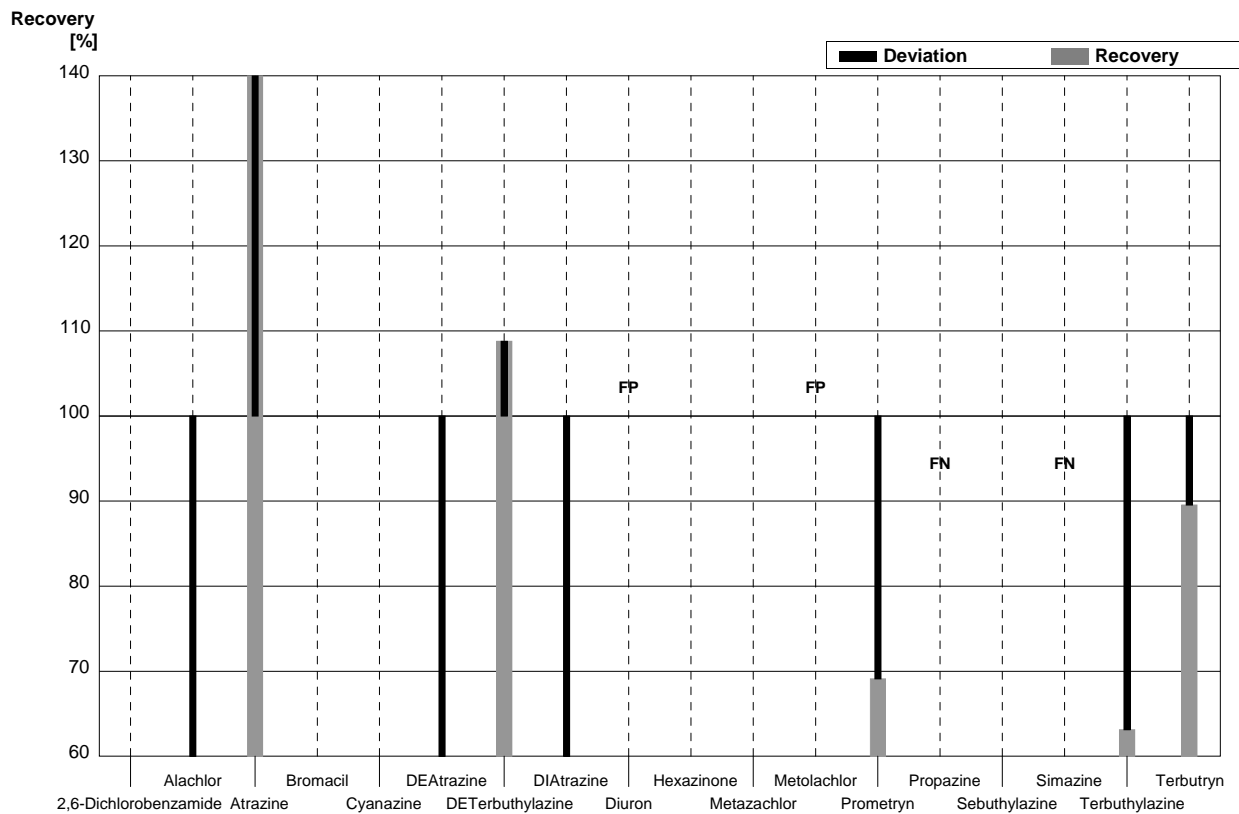
Sample HA85A
Laboratory I

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
2,6-Dichlorobenzamide	0,256	0,013			µg/l	
Alachlor	0,061	0,003	0,242	0,097	µg/l	397%
Atrazine	0,199	0,010	0,120	0,049	µg/l	60%
Bromacil	0,168	0,008			µg/l	
Cyanazine	0,232	0,012			µg/l	
DEAtrazine	0,056	0,003	0,233	0,093	µg/l	416%
DETerbutylazine	0,124	0,006	0,291	0,113	µg/l	235%
DIAtrazine	<0,05		0,150	0,063	µg/l	FP
Diuron	0,220	0,011	<0,002		µg/l	FN
Hexazinone	0,080	0,004			µg/l	
Metazachlor	0,109	0,005			µg/l	
Metolachlor	0,151	0,008	<0,001		µg/l	FN
Prometryn	0,071	0,004	0,180	0,068	µg/l	254%
Propazine	<0,05		0,239	0,098	µg/l	FP
Sebuthylazine	0,170	0,009			µg/l	
Simazine	<0,05		0,283	0,113	µg/l	FP
Terbutylazine	0,100	0,005	0,319	0,131	µg/l	319%
Terbutryn	0,141	0,007	0,284	0,108	µg/l	201%



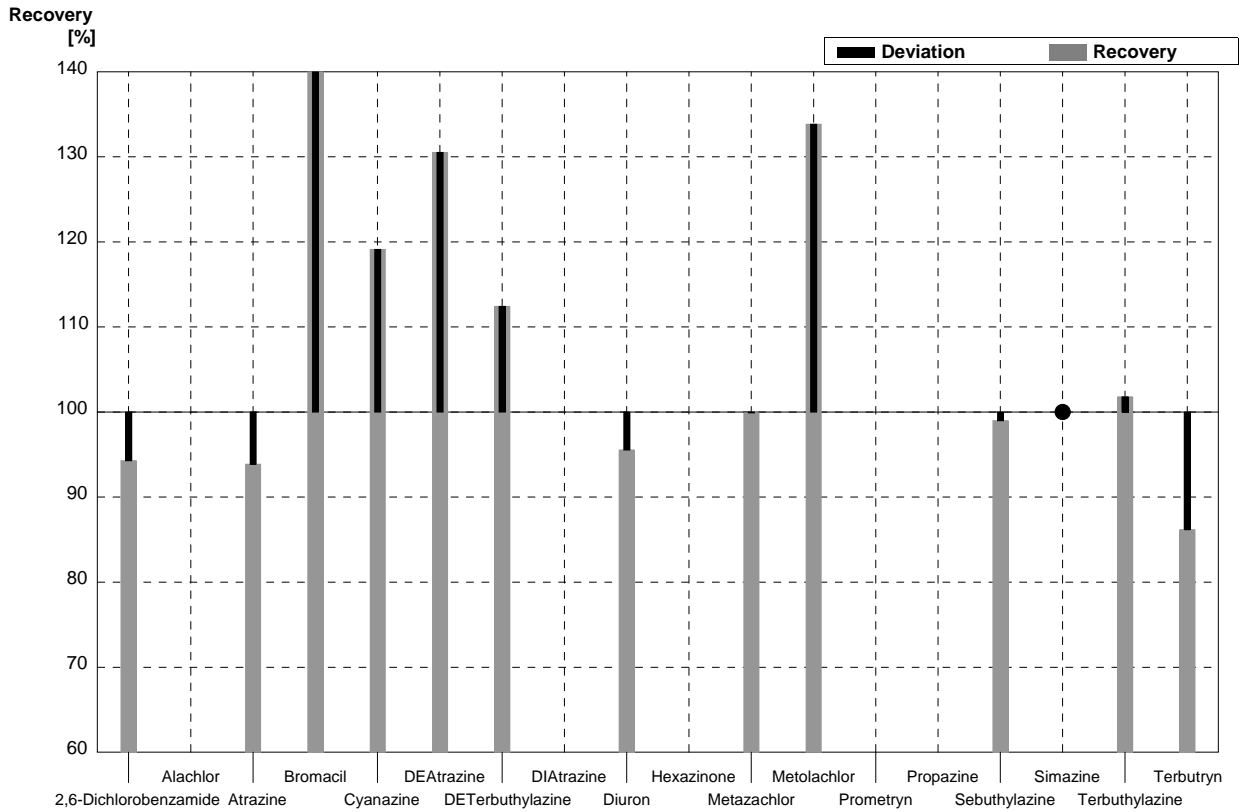
Sample HA85B
Laboratory I

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
2,6-Dichlorobenzamide	0,070	0,004			µg/l	
Alachlor	0,200	0,010	0,054	0,024	µg/l	27%
Atrazine	0,079	0,004	0,247	0,099	µg/l	313%
Bromacil	<0,05				µg/l	
Cyanazine	0,151	0,008			µg/l	
DEAtrazine	0,168	0,008	0,087	0,036	µg/l	52%
DETerbutylazine	0,216	0,011	0,235	0,099	µg/l	109%
DIAtrazine	0,293	0,015	0,145	0,058	µg/l	49%
Diuron	<0,05		0,244	0,102	µg/l	FP
Hexazinone	0,199	0,010			µg/l	
Metazachlor	0,201	0,010			µg/l	
Metolachlor	<0,05		0,167	0,068	µg/l	FP
Prometryn	0,136	0,007	0,094	0,038	µg/l	69%
Propazine	0,171	0,009	<0,001		µg/l	FN
Sebuthylazine	0,081	0,004			µg/l	
Simazine	0,202	0,010	<0,001		µg/l	FN
Terbutylazine	0,217	0,011	0,137	0,056	µg/l	63%
Terbutryn	0,201	0,010	0,180	0,072	µg/l	90%



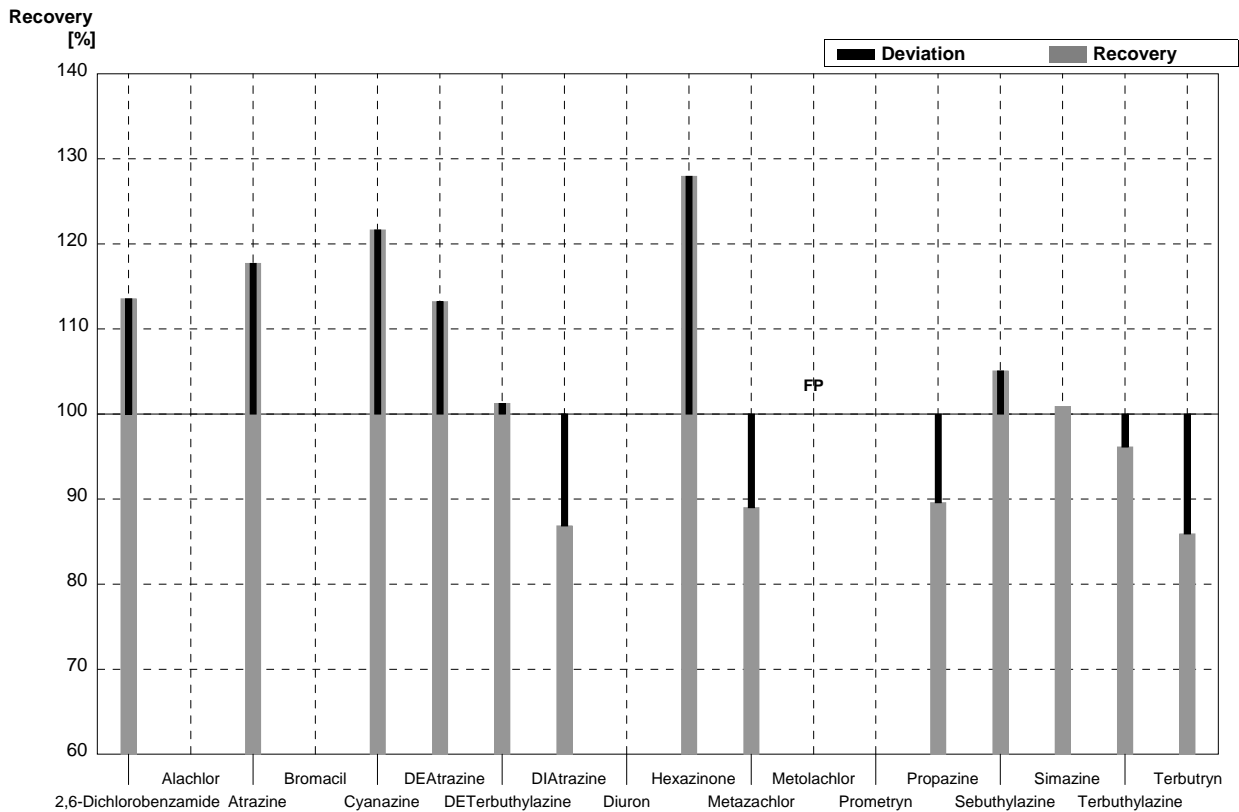
Sample HA85A
Laboratory J

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
2,6-Dichlorobenzamide	0,256	0,013	0,2414	0,0362	µg/l	94%
Alachlor	0,061	0,003			µg/l	
Atrazine	0,199	0,010	0,1868	0,0280	µg/l	94%
Bromacil	0,168	0,008	0,2730	0,0410	µg/l	163%
Cyanazine	0,232	0,012	0,2764	0,0415	µg/l	119%
DEAtrazine	0,056	0,003	0,0731	0,0110	µg/l	131%
DETerbutylazine	0,124	0,006	0,1394	0,0209	µg/l	112%
DIAtazine	<0,05				µg/l	
Diuron	0,220	0,011	0,2102	0,0315	µg/l	96%
Hexazinone	0,080	0,004			µg/l	
Metazachlor	0,109	0,005	0,1089	0,0163	µg/l	100%
Metolachlor	0,151	0,008	0,2021	0,0303	µg/l	134%
Prometryn	0,071	0,004			µg/l	
Propazine	<0,05				µg/l	
Sebutylazine	0,170	0,009	0,1683	0,0253	µg/l	99%
Simazine	<0,05		0,0227	0,0034	µg/l	•
Terbutylazine	0,100	0,005	0,1018	0,0153	µg/l	102%
Terbutryn	0,141	0,007	0,1215	0,0182	µg/l	86%



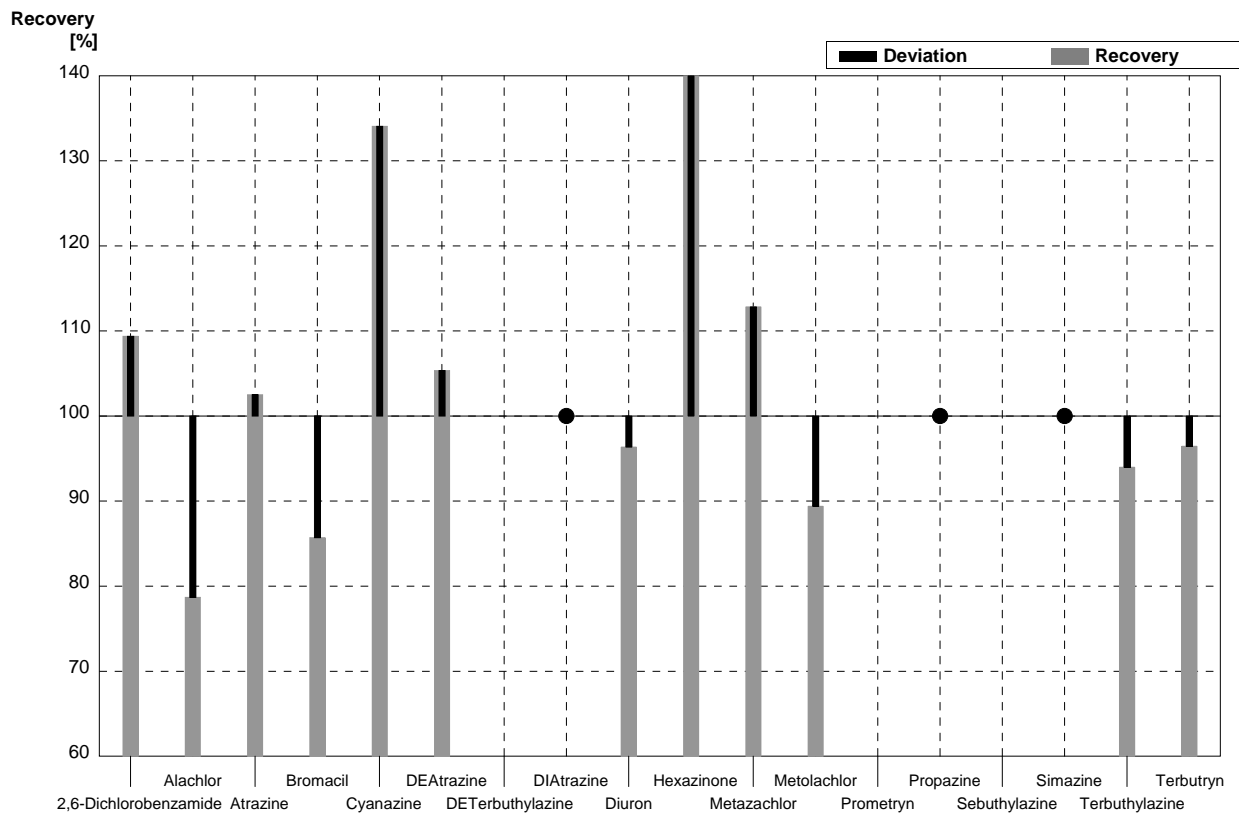
Sample HA85B
Laboratory J

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
2,6-Dichlorobenzamide	0,070	0,004	0,0795	0,0119	µg/l	114%
Alachlor	0,200	0,010			µg/l	
Atrazine	0,079	0,004	0,0930	0,0140	µg/l	118%
Bromacil	<0,05				µg/l	
Cyanazine	0,151	0,008	0,1837	0,0276	µg/l	122%
DEAtrazine	0,168	0,008	0,1902	0,0285	µg/l	113%
DETerbutylazine	0,216	0,011	0,2187	0,0328	µg/l	101%
DIAtrazine	0,293	0,015	0,2545	0,0382	µg/l	87%
Diuron	<0,05				µg/l	
Hexazinone	0,199	0,010	0,2546	0,0382	µg/l	128%
Metazachlor	0,201	0,010	0,1789	0,0268	µg/l	89%
Metolachlor	<0,05		0,1833	0,0275	µg/l	FP
Prometryn	0,136	0,007			µg/l	
Propazine	0,171	0,009	0,1532	0,0230	µg/l	90%
Sebuthylazine	0,081	0,004	0,0851	0,0128	µg/l	105%
Simazine	0,202	0,010	0,2038	0,0306	µg/l	101%
Terbutylazine	0,217	0,011	0,2086	0,0313	µg/l	96%
Terbutryn	0,201	0,010	0,1727	0,0259	µg/l	86%



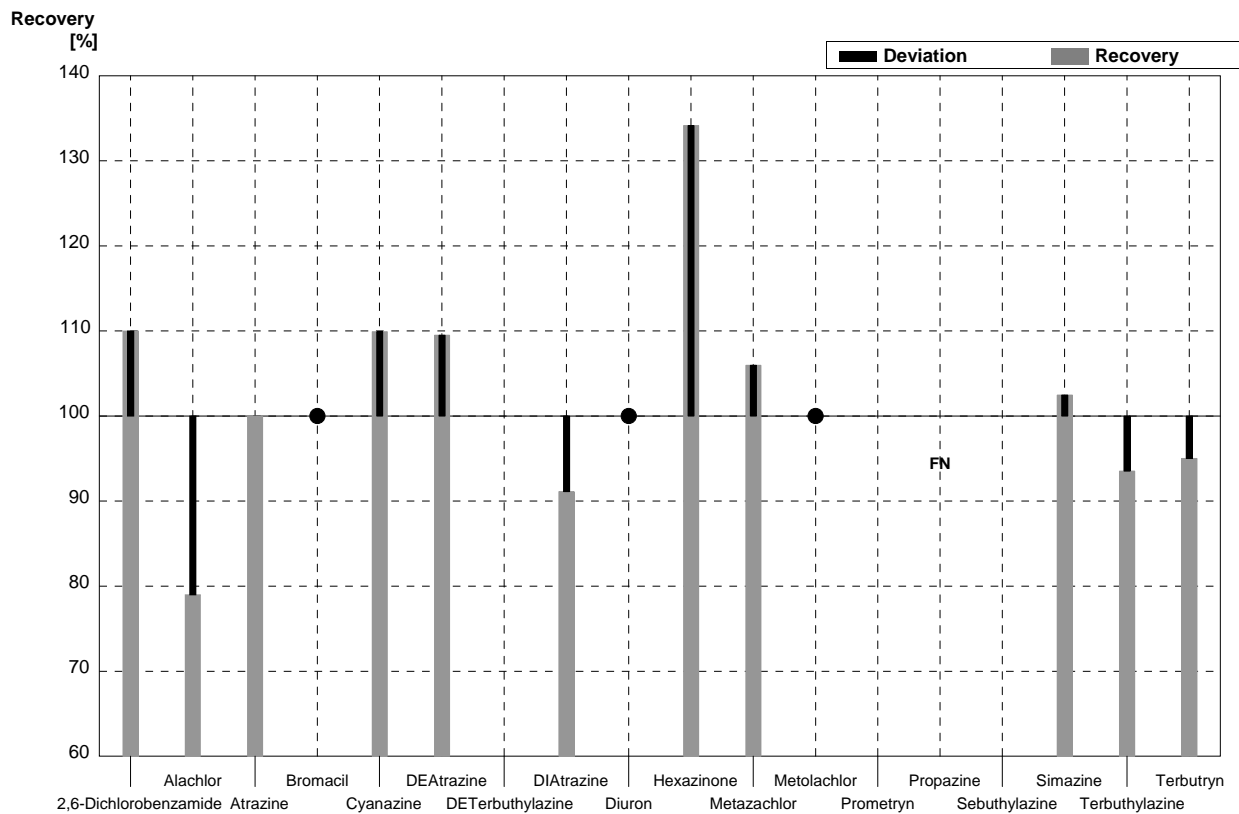
Sample HA85A
Laboratory K

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
2,6-Dichlorobenzamide	0,256	0,013	0,280	0,056	µg/l	109%
Alachlor	0,061	0,003	0,048	0,010	µg/l	79%
Atrazine	0,199	0,010	0,204	0,041	µg/l	103%
Bromacil	0,168	0,008	0,144	0,029	µg/l	86%
Cyanazine	0,232	0,012	0,311	0,062	µg/l	134%
DEAtrazine	0,056	0,003	0,059	0,012	µg/l	105%
DETerbutylazine	0,124	0,006			µg/l	
DIAtrazine	<0,05		0,025	0,005	µg/l	•
Diuron	0,220	0,011	0,212	0,042	µg/l	96%
Hexazinone	0,080	0,004	0,118	0,024	µg/l	148%
Metazachlor	0,109	0,005	0,123	0,025	µg/l	113%
Metolachlor	0,151	0,008	0,135	0,027	µg/l	89%
Prometryn	0,071	0,004			µg/l	
Propazine	<0,05		<0,01	0,002	µg/l	•
Sebuthylazine	0,170	0,009			µg/l	
Simazine	<0,05		<0,01	0,002	µg/l	•
Terbutylazine	0,100	0,005	0,094	0,019	µg/l	94%
Terbutryn	0,141	0,007	0,136	0,027	µg/l	96%



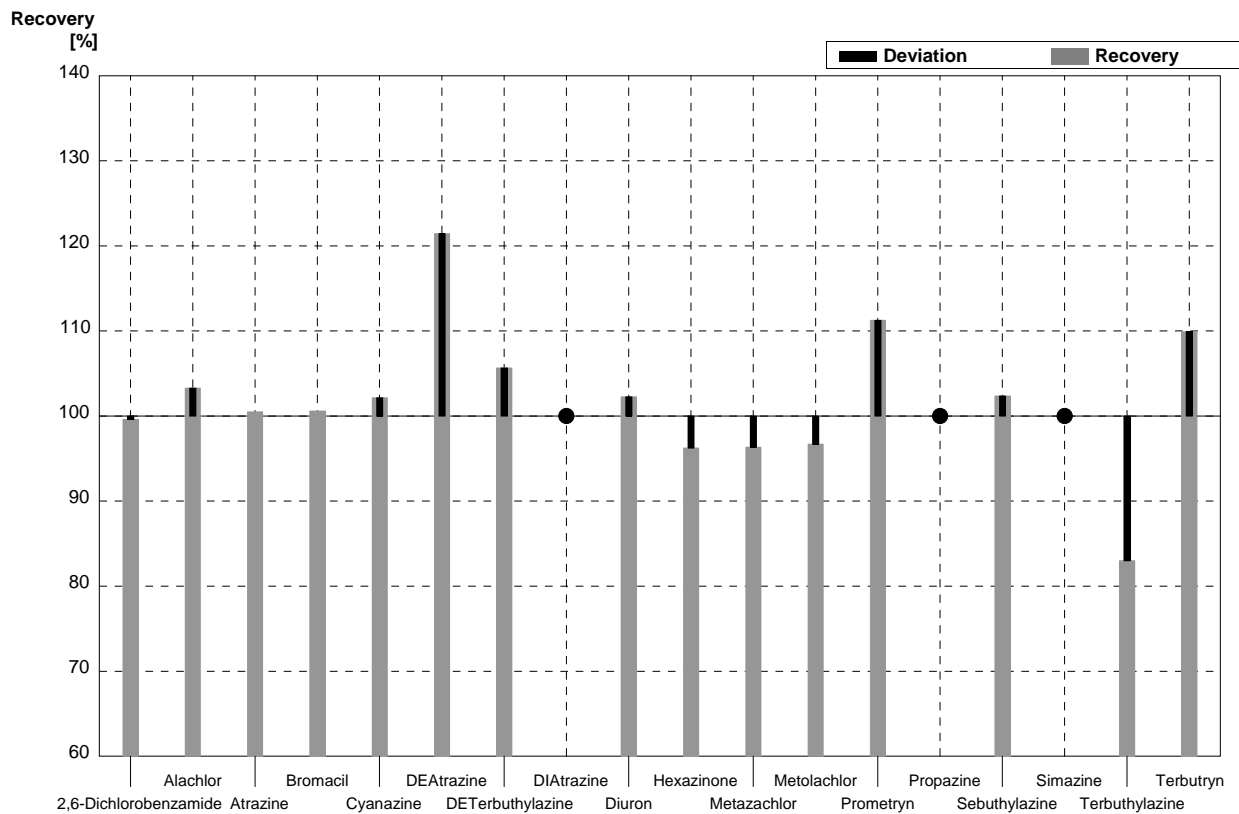
Sample HA85B
Laboratory K

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
2,6-Dichlorobenzamide	0,070	0,004	0,077	0,015	µg/l	110%
Alachlor	0,200	0,010	0,158	0,032	µg/l	79%
Atrazine	0,079	0,004	0,079	0,016	µg/l	100%
Bromacil	<0,05		<0,01	0,002	µg/l	•
Cyanazine	0,151	0,008	0,166	0,033	µg/l	110%
DEAtrazine	0,168	0,008	0,184	0,037	µg/l	110%
DETerbutylazine	0,216	0,011			µg/l	
DIAtrazine	0,293	0,015	0,267	0,053	µg/l	91%
Diuron	<0,05		<0,01	0,002	µg/l	•
Hexazinone	0,199	0,010	0,267	0,053	µg/l	134%
Metazachlor	0,201	0,010	0,213	0,043	µg/l	106%
Metolachlor	<0,05		<0,01	0,002	µg/l	•
Prometryn	0,136	0,007			µg/l	
Propazine	0,171	0,009	<0,01	0,002	µg/l	FN
Sebutylazine	0,081	0,004			µg/l	
Simazine	0,202	0,010	0,207	0,041	µg/l	102%
Terbutylazine	0,217	0,011	0,203	0,041	µg/l	94%
Terbutryn	0,201	0,010	0,191	0,038	µg/l	95%



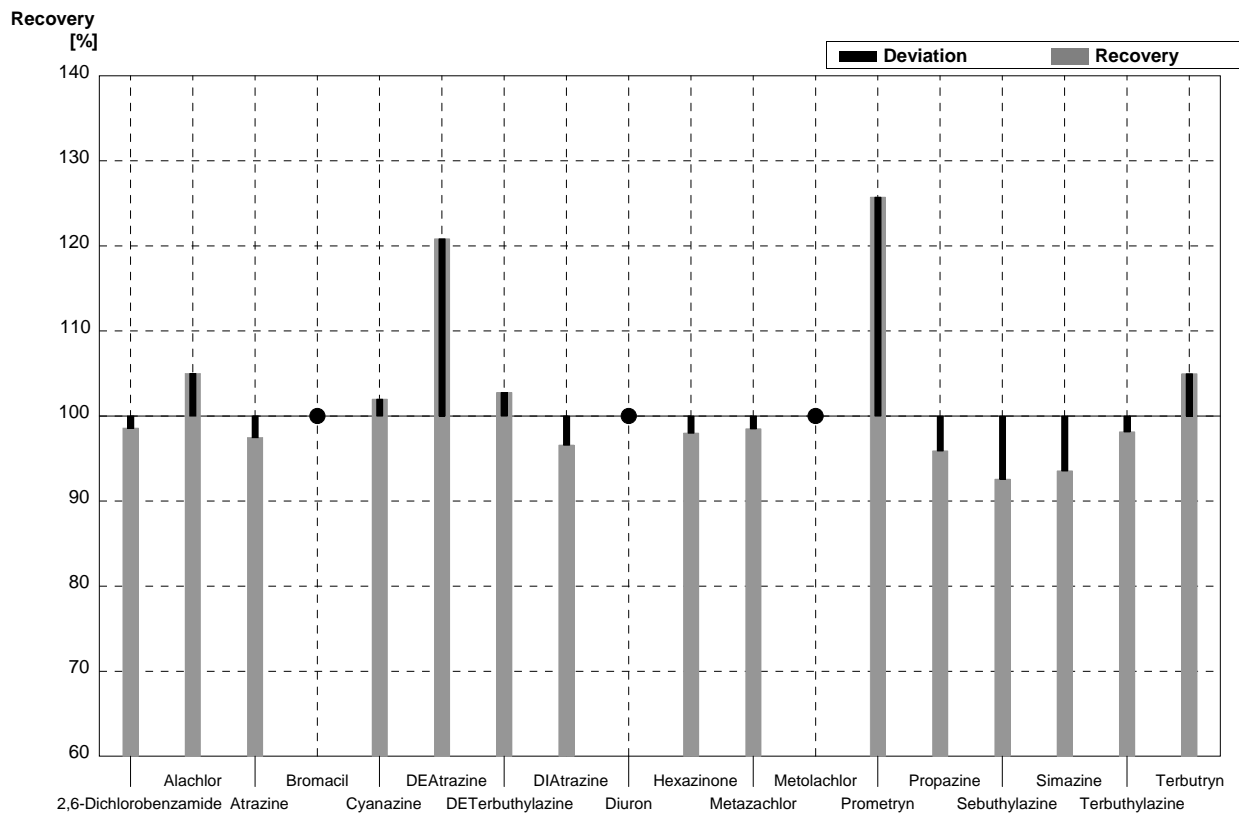
Sample HA85A
Laboratory L

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
2,6-Dichlorobenzamide	0,256	0,013	0,255	0,038	µg/l	100%
Alachlor	0,061	0,003	0,063	0,009	µg/l	103%
Atrazine	0,199	0,010	0,200	0,030	µg/l	101%
Bromacil	0,168	0,008	0,169	0,025	µg/l	101%
Cyanazine	0,232	0,012	0,237	0,024	µg/l	102%
DEAtrazine	0,056	0,003	0,068	0,007	µg/l	121%
DETerbutylazine	0,124	0,006	0,131	0,020	µg/l	106%
DIAtrazine	<0,05		<0,030		µg/l	•
Diuron	0,220	0,011	0,225	0,034	µg/l	102%
Hexazinone	0,080	0,004	0,077	0,012	µg/l	96%
Metazachlor	0,109	0,005	0,105	0,016	µg/l	96%
Metolachlor	0,151	0,008	0,146	0,022	µg/l	97%
Prometryn	0,071	0,004	0,079	0,012	µg/l	111%
Propazine	<0,05		<0,030		µg/l	•
Sebuthylazine	0,170	0,009	0,174	0,026	µg/l	102%
Simazine	<0,05		<0,030		µg/l	•
Terbutylazine	0,100	0,005	0,083	0,012	µg/l	83%
Terbutryn	0,141	0,007	0,155	0,023	µg/l	110%



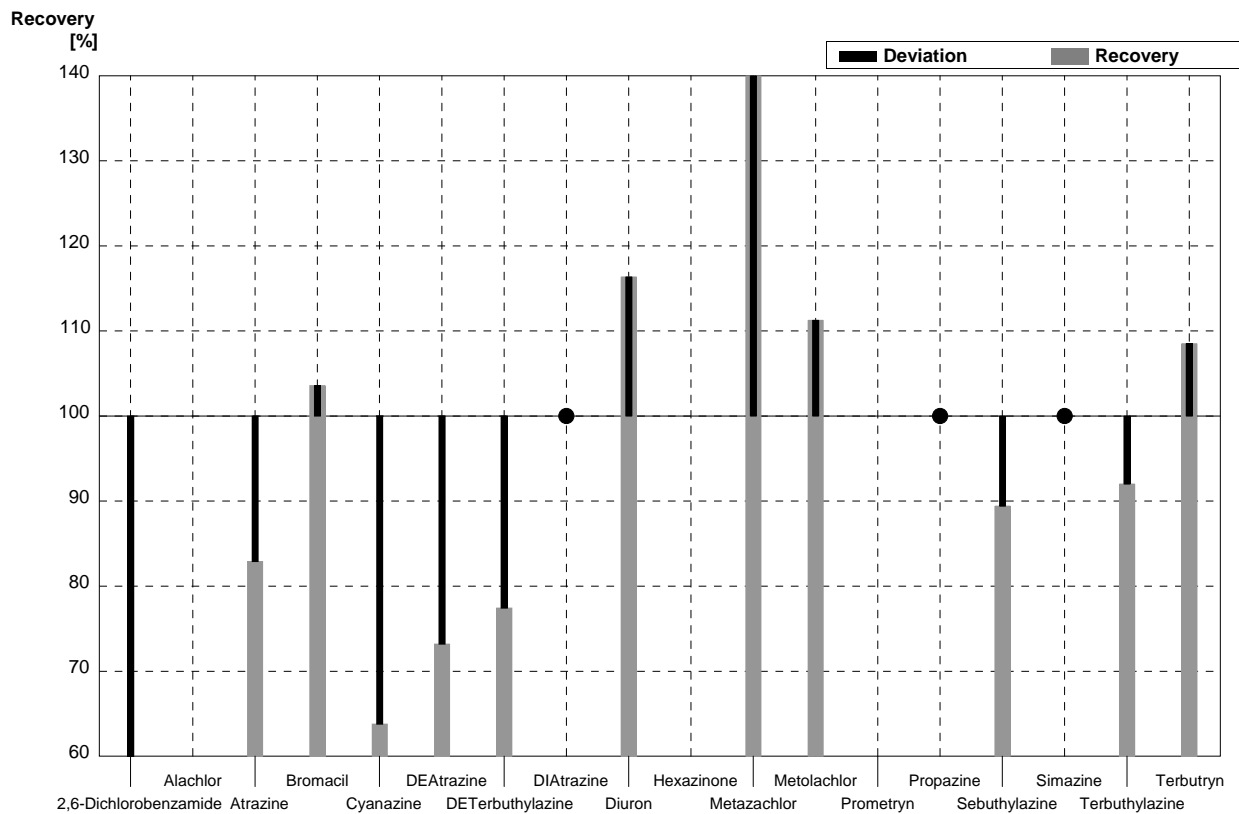
Sample HA85B
Laboratory L

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
2,6-Dichlorobenzamide	0,070	0,004	0,069	0,010	µg/l	99%
Alachlor	0,200	0,010	0,210	0,031	µg/l	105%
Atrazine	0,079	0,004	0,077	0,012	µg/l	97%
Bromacil	<0,05		<0,030		µg/l	•
Cyanazine	0,151	0,008	0,154	0,016	µg/l	102%
DEAtrazine	0,168	0,008	0,203	0,020	µg/l	121%
DETerbutylazine	0,216	0,011	0,222	0,033	µg/l	103%
DIAtrazine	0,293	0,015	0,283	0,028	µg/l	97%
Diuron	<0,05		<0,030		µg/l	•
Hexazinone	0,199	0,010	0,195	0,029	µg/l	98%
Metazachlor	0,201	0,010	0,198	0,030	µg/l	99%
Metolachlor	<0,05		<0,030		µg/l	•
Prometryn	0,136	0,007	0,171	0,026	µg/l	126%
Propazine	0,171	0,009	0,164	0,025	µg/l	96%
Sebuthylazine	0,081	0,004	0,075	0,011	µg/l	93%
Simazine	0,202	0,010	0,189	0,028	µg/l	94%
Terbutylazine	0,217	0,011	0,213	0,032	µg/l	98%
Terbutryn	0,201	0,010	0,211	0,032	µg/l	105%



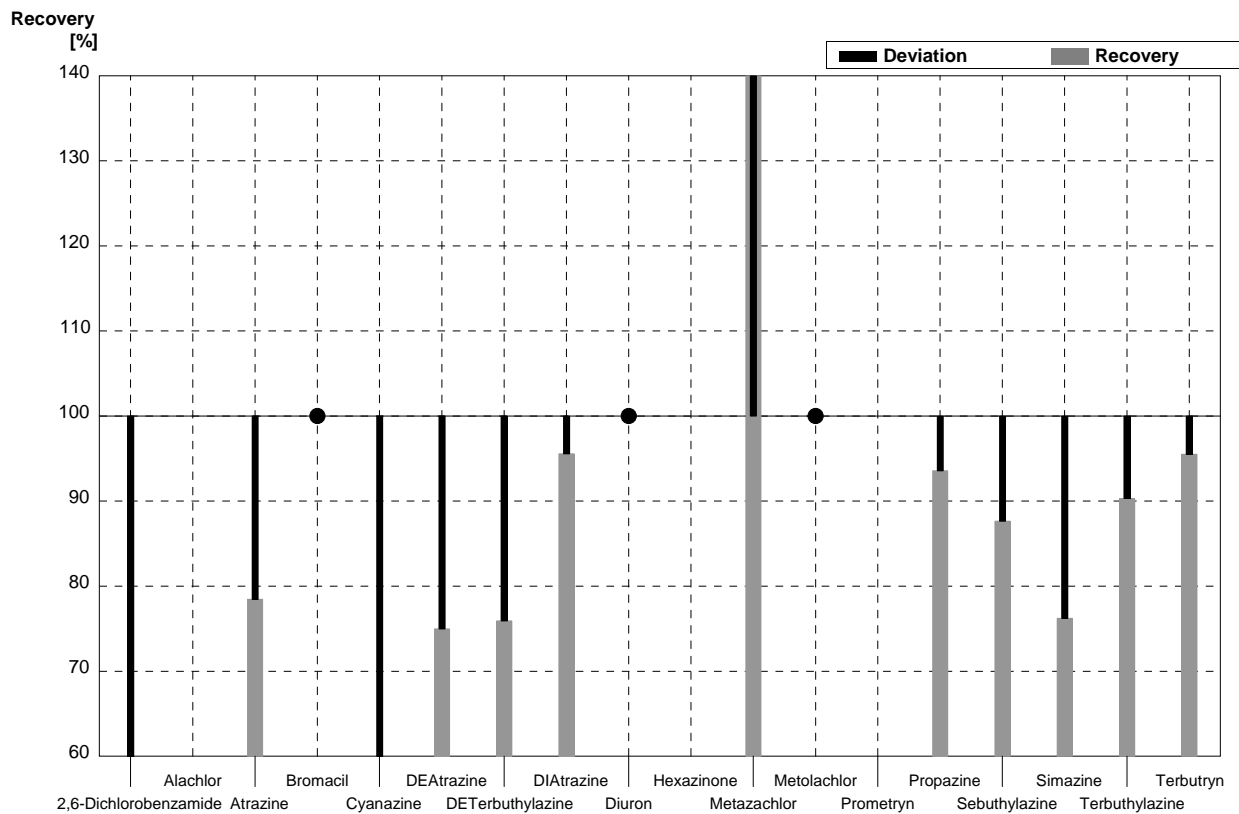
Sample HA85A
Laboratory M

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
2,6-Dichlorobenzamide	0,256	0,013	0,078	0,016	µg/l	30%
Alachlor	0,061	0,003			µg/l	
Atrazine	0,199	0,010	0,165	0,033	µg/l	83%
Bromacil	0,168	0,008	0,174	0,035	µg/l	104%
Cyanazine	0,232	0,012	0,148	0,030	µg/l	64%
DEAtrazine	0,056	0,003	0,041	0,008	µg/l	73%
DETerbutylazine	0,124	0,006	0,096	0,019	µg/l	77%
DIAtazine	<0,05		<0,010		µg/l	•
Diuron	0,220	0,011	0,256	0,051	µg/l	116%
Hexazinone	0,080	0,004			µg/l	
Metazachlor	0,109	0,005	0,191	0,038	µg/l	175%
Metolachlor	0,151	0,008	0,168	0,034	µg/l	111%
Prometryn	0,071	0,004			µg/l	
Propazine	<0,05		<0,010		µg/l	•
Sebuthylazine	0,170	0,009	0,152	0,030	µg/l	89%
Simazine	<0,05		<0,010		µg/l	•
Terbutylazine	0,100	0,005	0,092	0,018	µg/l	92%
Terbutryn	0,141	0,007	0,153	0,031	µg/l	109%



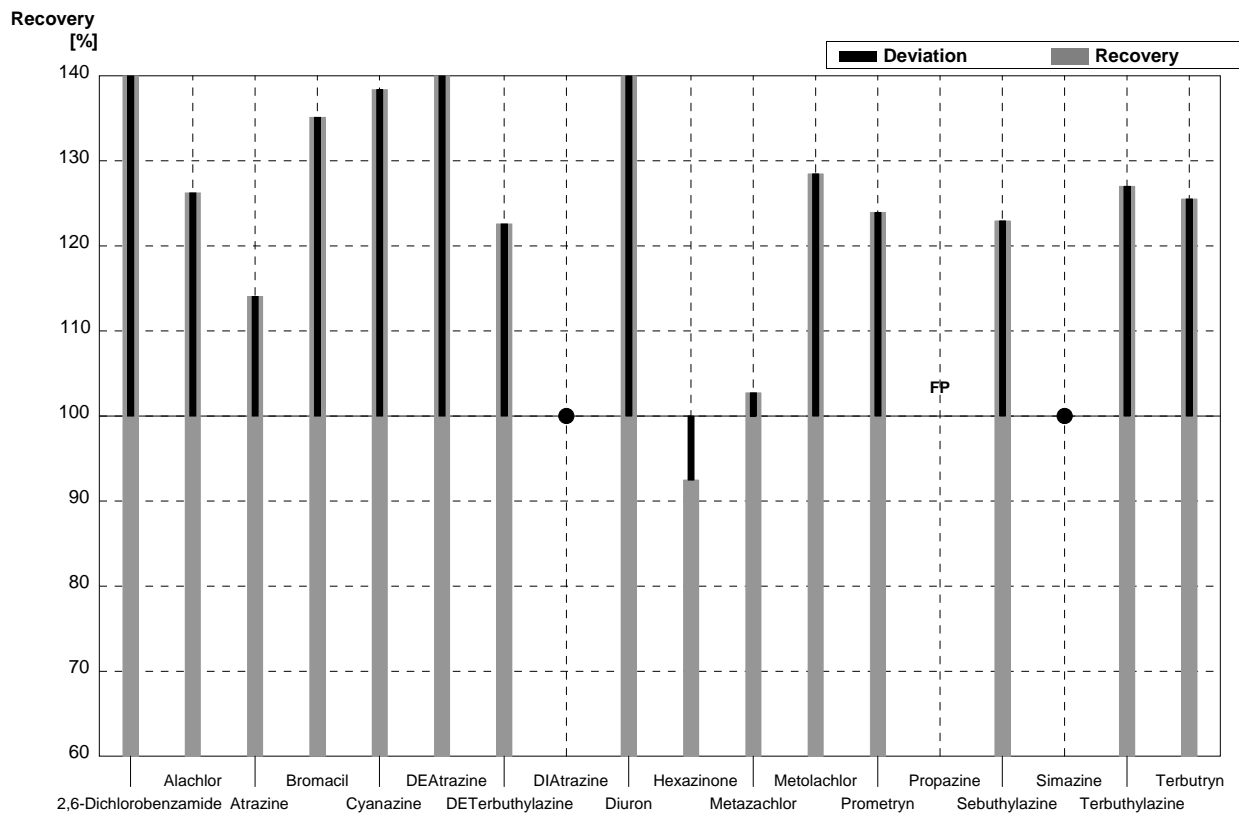
Sample HA85B
Laboratory M

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
2,6-Dichlorobenzamide	0,070	0,004	0,025	0,005	µg/l	36%
Alachlor	0,200	0,010			µg/l	
Atrazine	0,079	0,004	0,062	0,012	µg/l	78%
Bromacil	<0,05		<0,010		µg/l	•
Cyanazine	0,151	0,008	0,080	0,016	µg/l	53%
DEAtrazine	0,168	0,008	0,126	0,025	µg/l	75%
DETerbutylazine	0,216	0,011	0,164	0,033	µg/l	76%
DIAtrazine	0,293	0,015	0,280	0,056	µg/l	96%
Diuron	<0,05		<0,010		µg/l	•
Hexazinone	0,199	0,010			µg/l	
Metazachlor	0,201	0,010	0,325	0,065	µg/l	162%
Metolachlor	<0,05		<0,010		µg/l	•
Prometryn	0,136	0,007			µg/l	
Propazine	0,171	0,009	0,160	0,032	µg/l	94%
Sebuthylazine	0,081	0,004	0,071	0,014	µg/l	88%
Simazine	0,202	0,010	0,154	0,031	µg/l	76%
Terbutylazine	0,217	0,011	0,196	0,039	µg/l	90%
Terbutryn	0,201	0,010	0,192	0,038	µg/l	96%



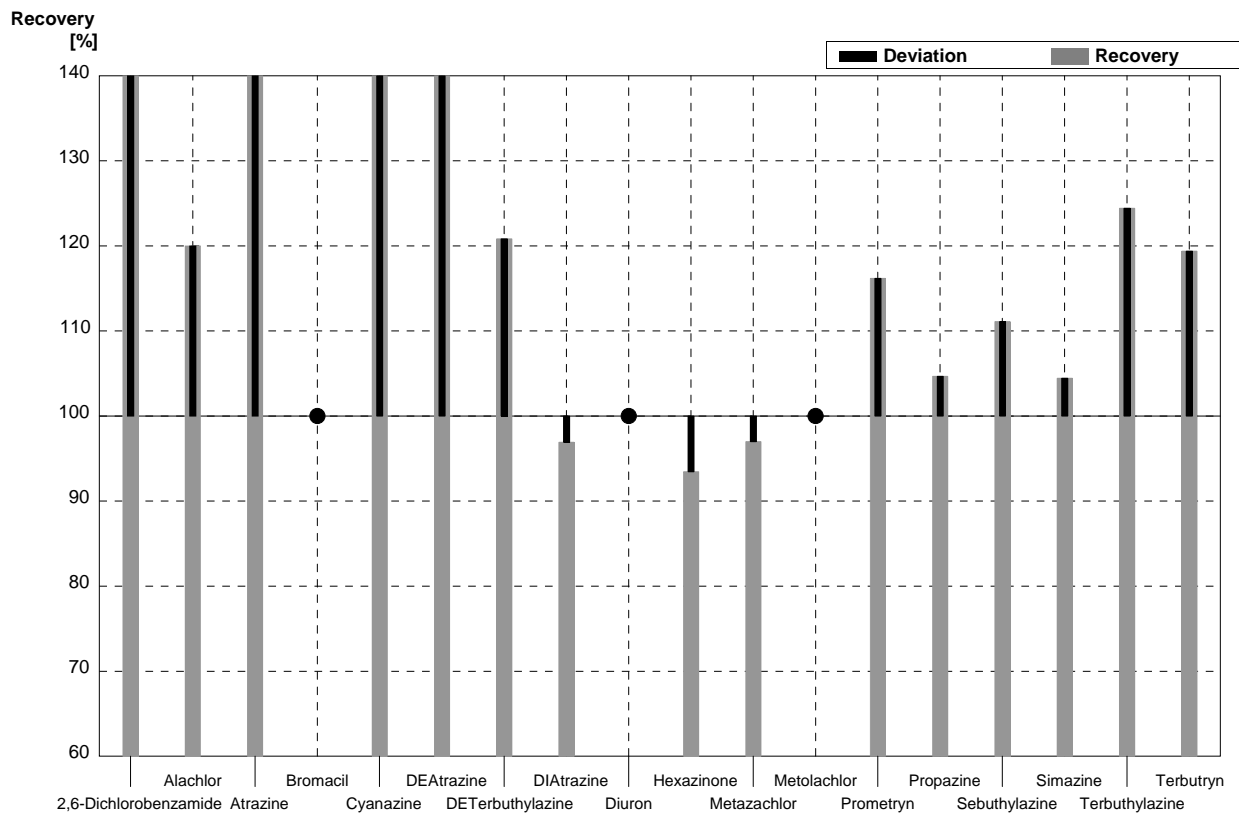
Sample HA85A
Laboratory N

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
2,6-Dichlorobenzamide	0,256	0,013	0,403	0,161	µg/l	157%
Alachlor	0,061	0,003	0,077	0,031	µg/l	126%
Atrazine	0,199	0,010	0,227	0,091	µg/l	114%
Bromacil	0,168	0,008	0,227	0,091	µg/l	135%
Cyanazine	0,232	0,012	0,321	0,128	µg/l	138%
DEAtrazine	0,056	0,003	0,110	0,044	µg/l	196%
DETerbutylazine	0,124	0,006	0,152	0,061	µg/l	123%
DIAtrazine	<0,05		<0,010	0,004	µg/l	•
Diuron	0,220	0,011	0,356	0,142	µg/l	162%
Hexazinone	0,080	0,004	0,074	0,030	µg/l	93%
Metazachlor	0,109	0,005	0,112	0,045	µg/l	103%
Metolachlor	0,151	0,008	0,194	0,078	µg/l	128%
Prometryn	0,071	0,004	0,088	0,035	µg/l	124%
Propazine	<0,05		0,056	0,022	µg/l	FP
Sebuthylazine	0,170	0,009	0,209	0,084	µg/l	123%
Simazine	<0,05		<0,010	0,004	µg/l	•
Terbutylazine	0,100	0,005	0,127	0,051	µg/l	127%
Terbutryn	0,141	0,007	0,177	0,071	µg/l	126%



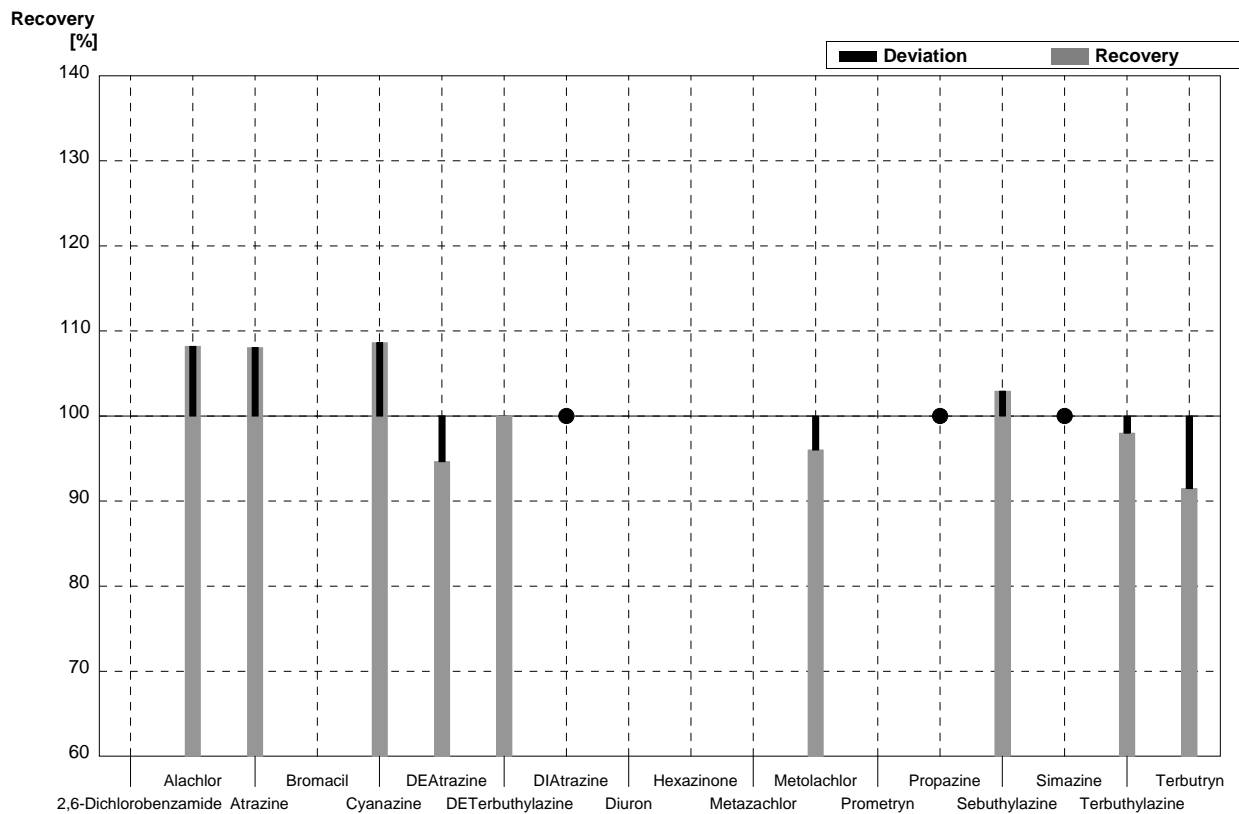
Sample HA85B
Laboratory N

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
2,6-Dichlorobenzamide	0,070	0,004	0,106	0,042	µg/l	151%
Alachlor	0,200	0,010	0,240	0,096	µg/l	120%
Atrazine	0,079	0,004	0,122	0,049	µg/l	154%
Bromacil	<0,05		<0,010	0,004	µg/l	•
Cyanazine	0,151	0,008	0,231	0,092	µg/l	153%
DEAtrazine	0,168	0,008	0,278	0,111	µg/l	165%
DETerbutylazine	0,216	0,011	0,261	0,104	µg/l	121%
DIAtrazine	0,293	0,015	0,284	0,114	µg/l	97%
Diuron	<0,05		<0,010	0,004	µg/l	•
Hexazinone	0,199	0,010	0,186	0,074	µg/l	93%
Metazachlor	0,201	0,010	0,195	0,078	µg/l	97%
Metolachlor	<0,05		<0,010	0,004	µg/l	•
Prometryn	0,136	0,007	0,158	0,063	µg/l	116%
Propazine	0,171	0,009	0,179	0,072	µg/l	105%
Sebuthylazine	0,081	0,004	0,090	0,036	µg/l	111%
Simazine	0,202	0,010	0,211	0,084	µg/l	104%
Terbutylazine	0,217	0,011	0,270	0,108	µg/l	124%
Terbutryn	0,201	0,010	0,240	0,096	µg/l	119%



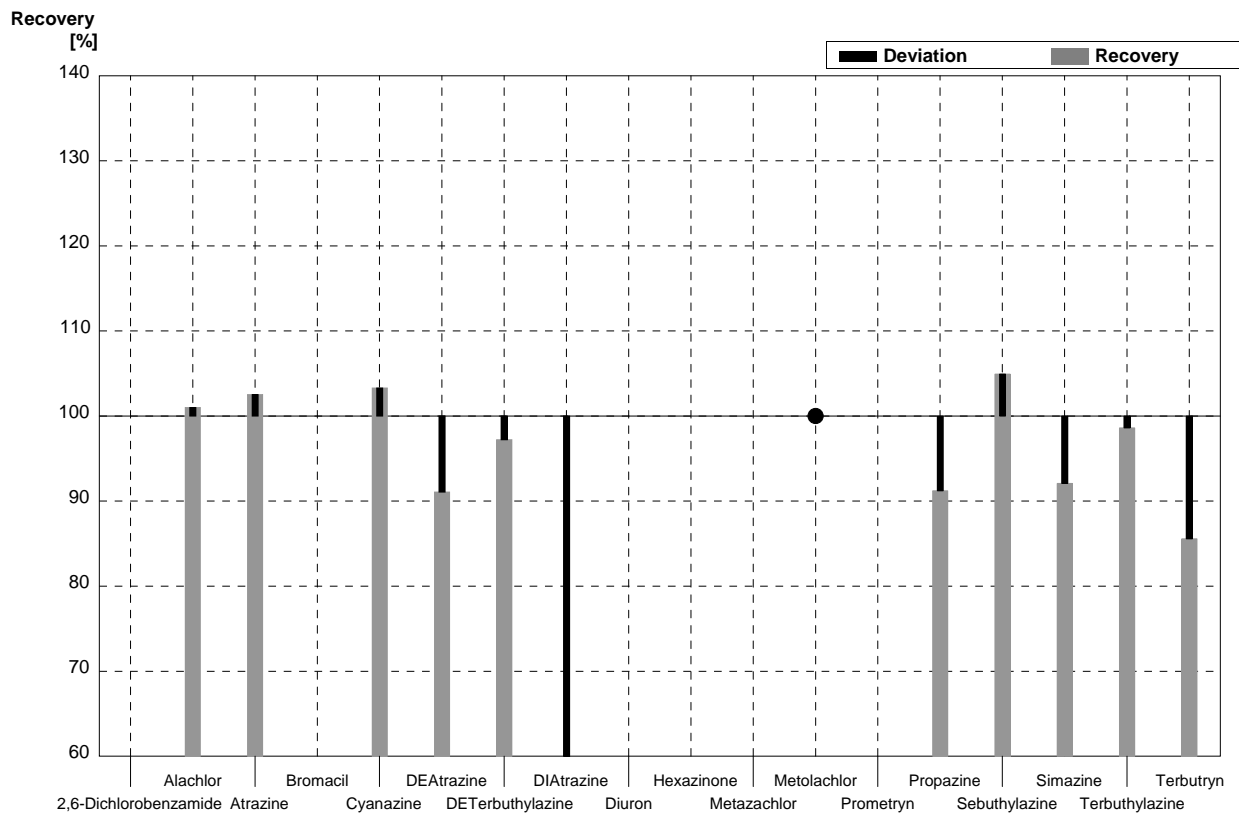
Sample **HA85A**
 Laboratory **O**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
2,6-Dichlorobenzamide	0,256	0,013	NA		µg/l	
Alachlor	0,061	0,003	0,066	0,017	µg/l	108%
Atrazine	0,199	0,010	0,215	0,054	µg/l	108%
Bromacil	0,168	0,008	NA		µg/l	
Cyanazine	0,232	0,012	0,252	0,063	µg/l	109%
DEAtrazine	0,056	0,003	0,053	0,013	µg/l	95%
DETerbutylazine	0,124	0,006	0,124	0,031	µg/l	100%
DIAtrazine	<0,05		<0,02		µg/l	•
Diuron	0,220	0,011	NA		µg/l	
Hexazinone	0,080	0,004	NA		µg/l	
Metazachlor	0,109	0,005	NA		µg/l	
Metolachlor	0,151	0,008	0,145	0,036	µg/l	96%
Prometryn	0,071	0,004	NA		µg/l	
Propazine	<0,05		<0,02		µg/l	•
Sebuthylazine	0,170	0,009	0,175	0,044	µg/l	103%
Simazine	<0,05		<0,02		µg/l	•
Terbutylazine	0,100	0,005	0,098	0,025	µg/l	98%
Terbutryn	0,141	0,007	0,129	0,032	µg/l	91%



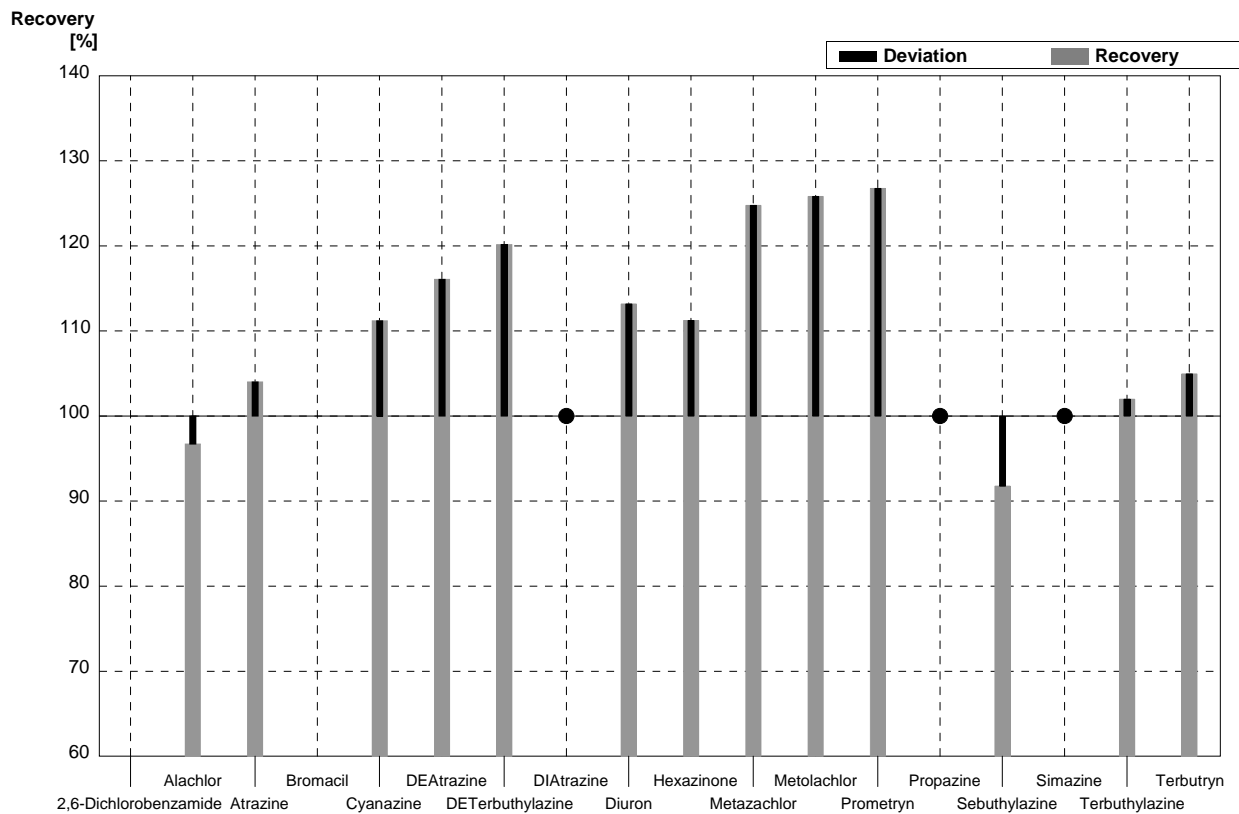
Sample **HA85B**
 Laboratory **O**

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
2,6-Dichlorobenzamide	0,070	0,004	NA		µg/l	
Alachlor	0,200	0,010	0,202	0,051	µg/l	101%
Atrazine	0,079	0,004	0,081	0,020	µg/l	103%
Bromacil	<0,05		NA		µg/l	
Cyanazine	0,151	0,008	0,156	0,039	µg/l	103%
DEAtrazine	0,168	0,008	0,153	0,038	µg/l	91%
DETerbutylazine	0,216	0,011	0,210	0,053	µg/l	97%
DIAtrazine	0,293	0,015	0,149	0,037	µg/l	51%
Diuron	<0,05		NA		µg/l	
Hexazinone	0,199	0,010	NA		µg/l	
Metazachlor	0,201	0,010	NA		µg/l	
Metolachlor	<0,05		<0,02		µg/l	•
Prometryn	0,136	0,007	NA		µg/l	
Propazine	0,171	0,009	0,156	0,039	µg/l	91%
Sebuthylazine	0,081	0,004	0,085	0,021	µg/l	105%
Simazine	0,202	0,010	0,186	0,047	µg/l	92%
Terbutylazine	0,217	0,011	0,214	0,054	µg/l	99%
Terbutryn	0,201	0,010	0,172	0,043	µg/l	86%



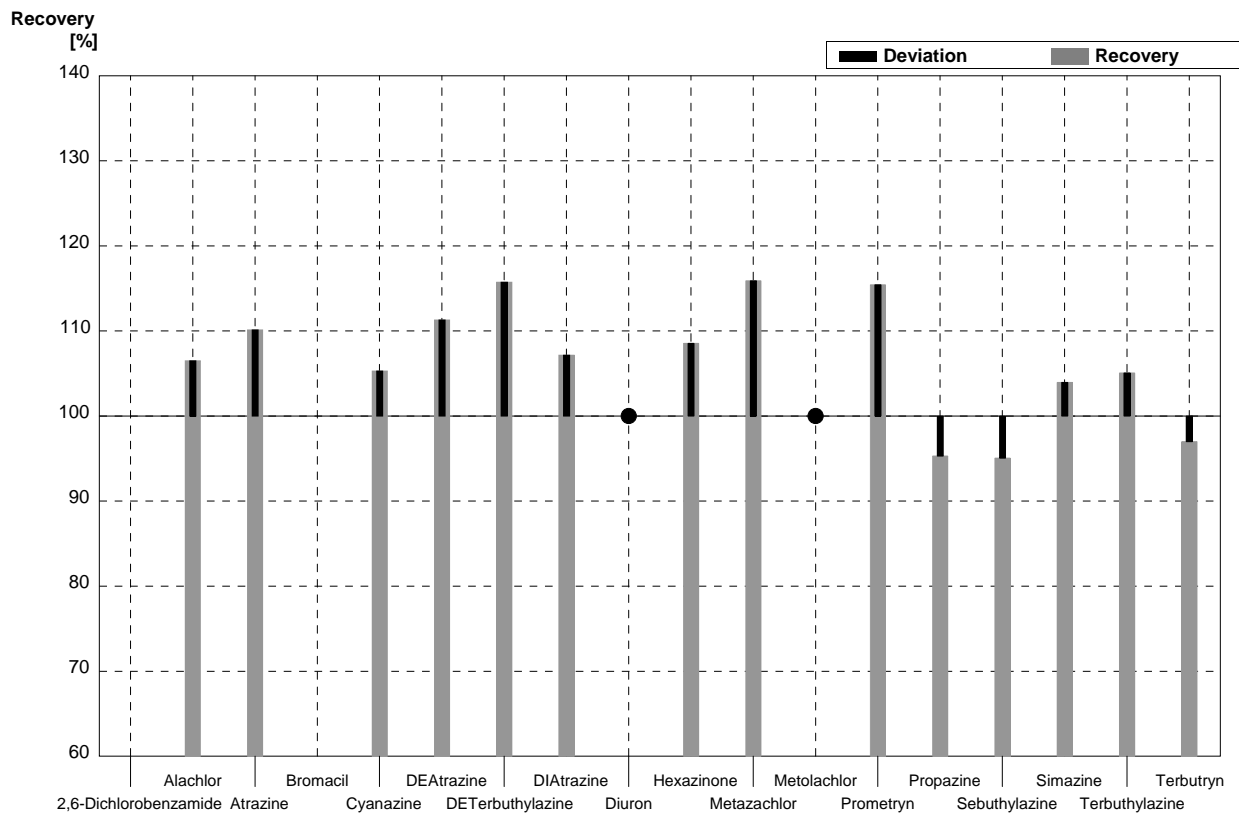
Sample HA85A
Laboratory P

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
2,6-Dichlorobenzamide	0,256	0,013			µg/l	
Alachlor	0,061	0,003	0,059	0,02	µg/l	97%
Atrazine	0,199	0,010	0,207	0,05	µg/l	104%
Bromacil	0,168	0,008			µg/l	
Cyanazine	0,232	0,012	0,258	0,06	µg/l	111%
DEAtrazine	0,056	0,003	0,065	0,02	µg/l	116%
DETerbutylazine	0,124	0,006	0,149	0,05	µg/l	120%
DIAtrazine	<0,05		<0,005	0,002	µg/l	•
Diuron	0,220	0,011	0,249	0,06	µg/l	113%
Hexazinone	0,080	0,004	0,089	0,03	µg/l	111%
Metazachlor	0,109	0,005	0,136	0,05	µg/l	125%
Metolachlor	0,151	0,008	0,190	0,05	µg/l	126%
Prometryn	0,071	0,004	0,090	0,02	µg/l	127%
Propazine	<0,05		<0,005	0,002	µg/l	•
Sebuthylazine	0,170	0,009	0,156	0,04	µg/l	92%
Simazine	<0,05		0,005	0,002	µg/l	•
Terbutylazine	0,100	0,005	0,102	0,02	µg/l	102%
Terbutryn	0,141	0,007	0,148	0,04	µg/l	105%



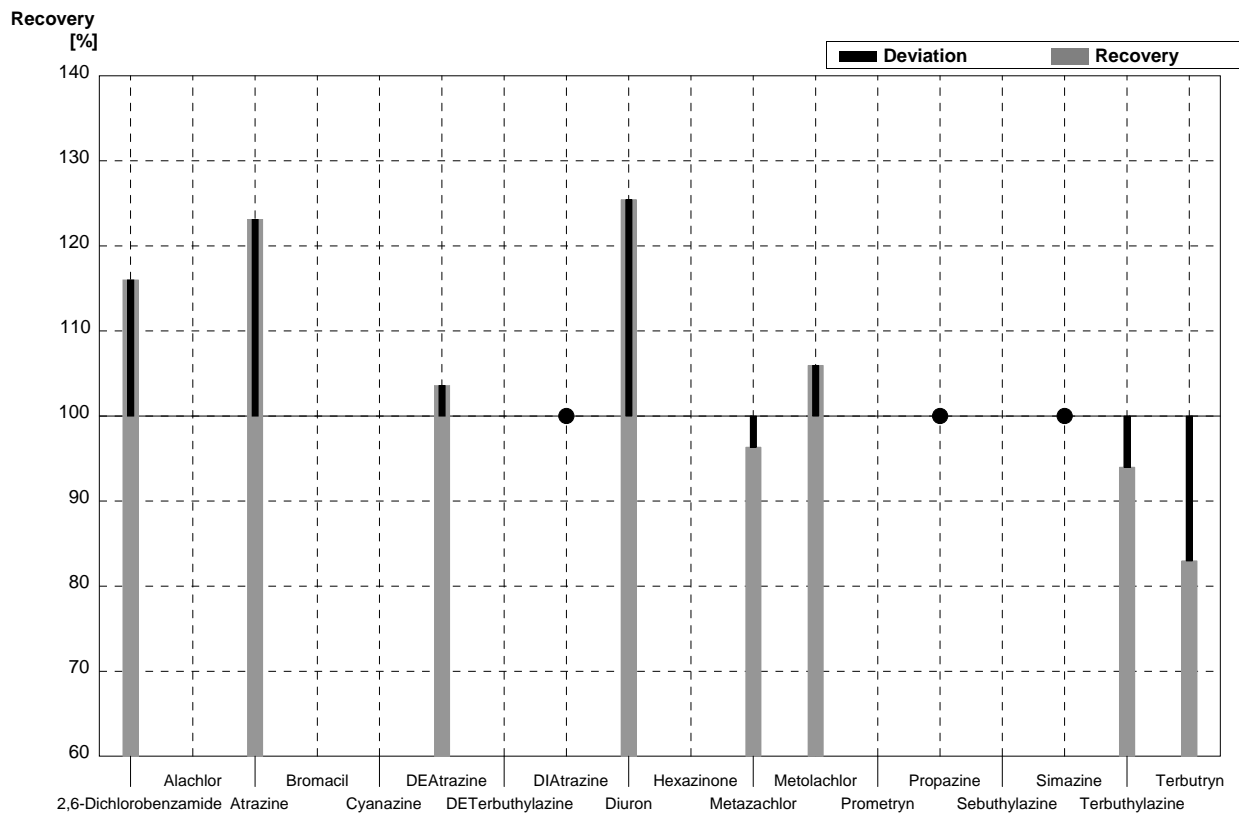
Sample HA85B
Laboratory P

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
2,6-Dichlorobenzamide	0,070	0,004			µg/l	
Alachlor	0,200	0,010	0,213	0,07	µg/l	107%
Atrazine	0,079	0,004	0,087	0,02	µg/l	110%
Bromacil	<0,05				µg/l	
Cyanazine	0,151	0,008	0,159	0,04	µg/l	105%
DEAtrazine	0,168	0,008	0,187	0,04	µg/l	111%
DETerbutylazine	0,216	0,011	0,250	0,08	µg/l	116%
DIAtrazine	0,293	0,015	0,314	0,08	µg/l	107%
Diuron	<0,05		<0,010	0,003	µg/l	•
Hexazinone	0,199	0,010	0,216	0,04	µg/l	109%
Metazachlor	0,201	0,010	0,233	0,08	µg/l	116%
Metolachlor	<0,05		<0,005	0,003	µg/l	•
Prometryn	0,136	0,007	0,157	0,04	µg/l	115%
Propazine	0,171	0,009	0,163	0,04	µg/l	95%
Sebuthylazine	0,081	0,004	0,077	0,02	µg/l	95%
Simazine	0,202	0,010	0,210	0,05	µg/l	104%
Terbutylazine	0,217	0,011	0,228	0,05	µg/l	105%
Terbutryn	0,201	0,010	0,195	0,05	µg/l	97%



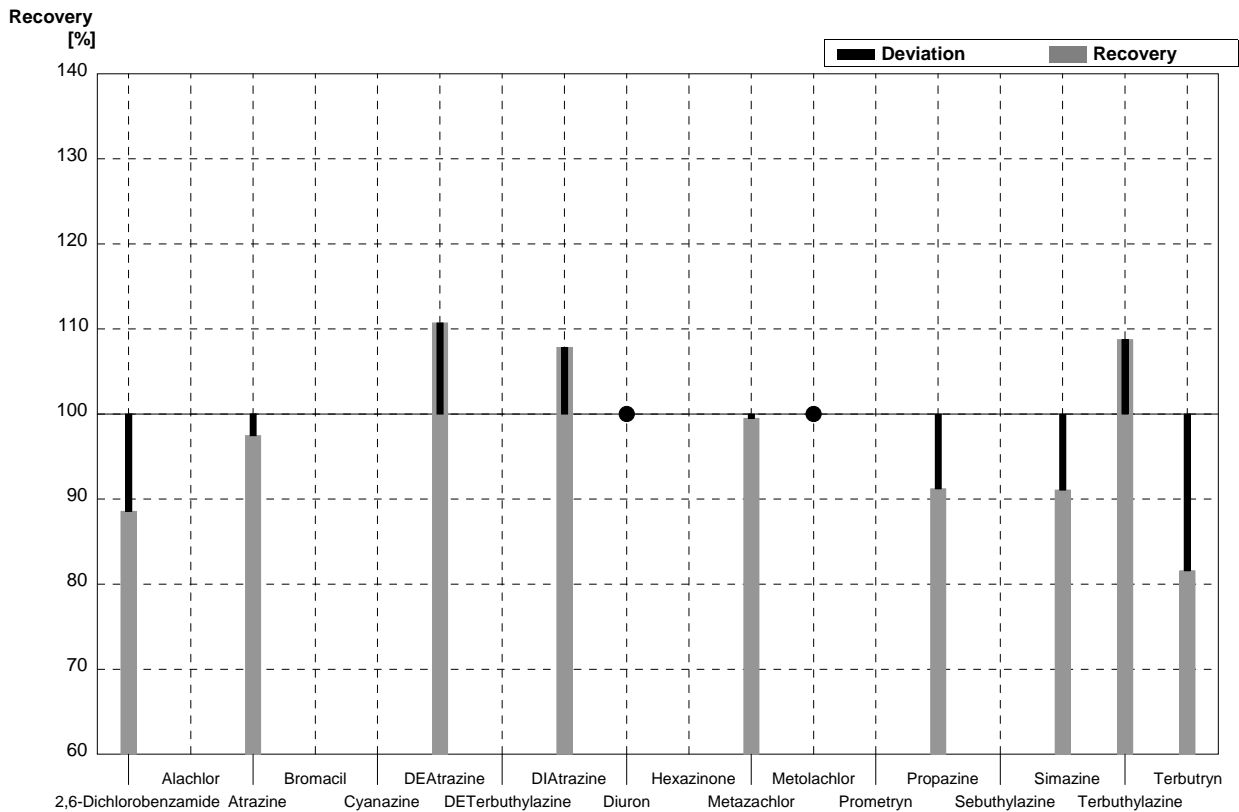
Sample HA85A
Laboratory Q

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
2,6-Dichlorobenzamide	0,256	0,013	0,297	0,03	µg/l	116%
Alachlor	0,061	0,003			µg/l	
Atrazine	0,199	0,010	0,245	0,025	µg/l	123%
Bromacil	0,168	0,008			µg/l	
Cyanazine	0,232	0,012			µg/l	
DEAtrazine	0,056	0,003	0,058	0,006	µg/l	104%
DETerbutylazine	0,124	0,006			µg/l	
DIAtrazine	<0,05		<0,01		µg/l	•
Diuron	0,220	0,011	0,276	0,03	µg/l	125%
Hexazinone	0,080	0,004			µg/l	
Metazachlor	0,109	0,005	0,105	0,02	µg/l	96%
Metolachlor	0,151	0,008	0,160	0,024	µg/l	106%
Prometryn	0,071	0,004			µg/l	
Propazine	<0,05		<0,03		µg/l	•
Sebuthylazine	0,170	0,009			µg/l	
Simazine	<0,05		<0,025		µg/l	•
Terbutylazine	0,100	0,005	0,094	0,014	µg/l	94%
Terbutryn	0,141	0,007	0,117	0,023	µg/l	83%



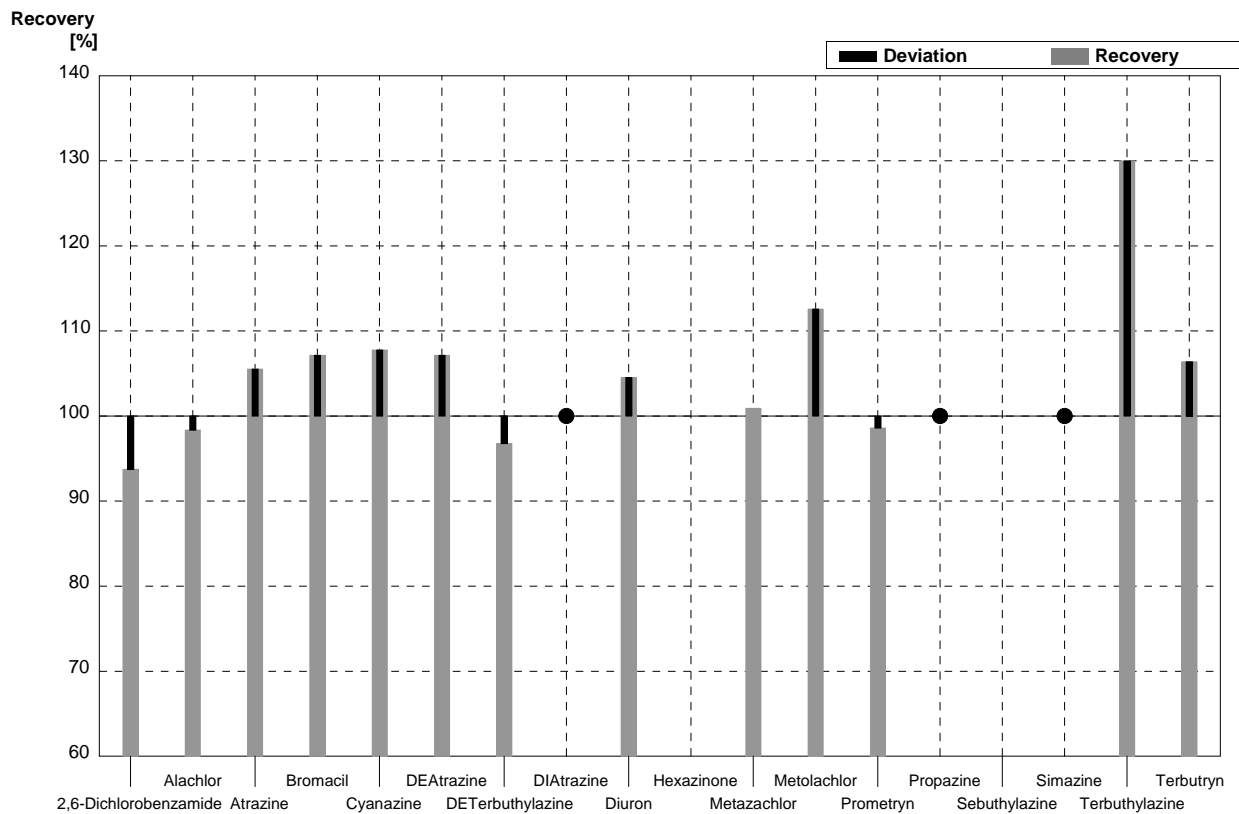
Sample HA85B
Laboratory Q

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
2,6-Dichlorobenzamide	0,070	0,004	0,062	0,006	µg/l	89%
Alachlor	0,200	0,010			µg/l	
Atrazine	0,079	0,004	0,077	0,008	µg/l	97%
Bromacil	<0,05				µg/l	
Cyanazine	0,151	0,008			µg/l	
DEAtrazine	0,168	0,008	0,186	0,02	µg/l	111%
DETerbutylazine	0,216	0,011			µg/l	
DIAtrazine	0,293	0,015	0,316	0,03	µg/l	108%
Diuron	<0,05		<0,02		µg/l	•
Hexazinone	0,199	0,010			µg/l	
Metazachlor	0,201	0,010	0,200	0,04	µg/l	100%
Metolachlor	<0,05		<0,03		µg/l	•
Prometryn	0,136	0,007			µg/l	
Propazine	0,171	0,009	0,156	0,023	µg/l	91%
Sebuthylazine	0,081	0,004			µg/l	
Simazine	0,202	0,010	0,184	0,02	µg/l	91%
Terbutylazine	0,217	0,011	0,236	0,035	µg/l	109%
Terbutryn	0,201	0,010	0,164	0,033	µg/l	82%



Sample HA85A
Laboratory R

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
2,6-Dichlorobenzamide	0,256	0,013	0,24	0,05	µg/l	94%
Alachlor	0,061	0,003	0,06	0,01	µg/l	98%
Atrazine	0,199	0,010	0,21	0,04	µg/l	106%
Bromacil	0,168	0,008	0,18	0,04	µg/l	107%
Cyanazine	0,232	0,012	0,25	0,05	µg/l	108%
DEAtrazine	0,056	0,003	0,06	0,01	µg/l	107%
DETerbutylazine	0,124	0,006	0,12	0,02	µg/l	97%
DIAtrazine	<0,05		<0,02		µg/l	•
Diuron	0,220	0,011	0,23	0,05	µg/l	105%
Hexazinone	0,080	0,004			µg/l	
Metazachlor	0,109	0,005	0,11	0,02	µg/l	101%
Metolachlor	0,151	0,008	0,17	0,03	µg/l	113%
Prometryn	0,071	0,004	0,07	0,01	µg/l	99%
Propazine	<0,05		<0,02		µg/l	•
Sebuthylazine	0,170	0,009			µg/l	
Simazine	<0,05		<0,02		µg/l	•
Terbutylazine	0,100	0,005	0,13	0,03	µg/l	130%
Terbutryn	0,141	0,007	0,15	0,03	µg/l	106%



Sample HA85B
Laboratory R

Parameter	Target value	± U (k=2)	Result	±	Unit	Recovery
2,6-Dichlorobenzamide	0,070	0,004	0,06	0,01	µg/l	86%
Alachlor	0,200	0,010	0,20	0,04	µg/l	100%
Atrazine	0,079	0,004	0,08	0,02	µg/l	101%
Bromacil	<0,05		<0,02		µg/l	•
Cyanazine	0,151	0,008	0,16	0,03	µg/l	106%
DEAtrazine	0,168	0,008	0,17	0,03	µg/l	101%
DETerbutylazine	0,216	0,011	0,21	0,04	µg/l	97%
DIAtrazine	0,293	0,015	0,28	0,06	µg/l	96%
Diuron	<0,05		<0,02		µg/l	•
Hexazinone	0,199	0,010			µg/l	
Metazachlor	0,201	0,010	0,20	0,02	µg/l	100%
Metolachlor	<0,05		<0,02		µg/l	•
Prometryn	0,136	0,007	0,14	0,03	µg/l	103%
Propazine	0,171	0,009	0,16	0,03	µg/l	94%
Sebuthylazine	0,081	0,004			µg/l	
Simazine	0,202	0,010	0,20	0,04	µg/l	99%
Terbutylazine	0,217	0,011	0,25	0,05	µg/l	115%
Terbutryn	0,201	0,010	0,20	0,04	µg/l	100%

