

EVALUATION OF THE INTERLABORATORY COMPARISON TEST

Metals M135

Sample dispatch on 7th February 2017

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1 Interlaboratory comparison test: Metals – M135

1.1 Participants and time schedule

- Number of registrations: 33
- Number of submitted data records: 31
- Dispatch of samples: 7th of February 2017
- Closing date for submission of data: 7th of March 2017

To anonymize results, each laboratory was given a laboratory code on a random basis.

1.2 Sampling, sample material and distribution

The sampling of ground water and surface water was carried out on 6th February 2017.

The following samples were made available

- Sample M135 A – surface water
- Sample M135 B – ground water

Both samples were filtered using 0,45 µm membrane disc filters and stored at < 4 °C until further processing.

The samples were partly spiked with specific substances and were filled into bottles under continuous stirring to achieve homogeneous samples.

The samples were stabilized with HNO₃ (pH < 2) and dispatched on 7th of February 2017.

Each participant received:

- 2 samples (each 250 ml), each filled in 250 ml PE-HD bottles.

1.3 Control testing

During filling the bottles, aliquots of each sample were collected randomly for control testing. Testing was performed close to the time of sample dispatch.

In the parameter-oriented evaluation, the results of the control testing are given in the form of arithmetic means of the detected concentrations as control test value ± U.

2 Evaluation

The analytical results had to be made available to the organiser not later than 7th of March 2017. Any values received at a later date were not considered. A statistical evaluation of interlaboratory comparison data was only carried out if at least 6 valid results per parameter were available.

To evaluate the data, outliers were detected first by using the outlier test method according to Hampel. Values identified as conspicuous by this test method are marked specifically in the parameter-oriented evaluation. Further evaluation was performed in accordance with DIN ISO 5725-2. Results < LOQ or < LOD are not taken into account for calculation.

The adjusted average value (after removal of outliers) for all submitted results was used as a basis for the calculation of recovery rates and z-scores.

z-Score

z-Scores were calculated on the basis of the following formula:

$$z - score = \frac{x_i - \bar{X}}{SD}$$

In this context,

x_i is the measurement value of the participating laboratory.

\bar{X} is the adjusted average value (i.e. after removal of outliers) of the participants' results.

SD is the reproducibility standard deviation, calculated from the participants' results (after removal of outliers) in the relevant test round.

Interpretation of z-Scores in the parameter-oriented evaluation:

- $|z| < 2$ result: good
- $2 < |z| < 3$ result: questionable
- $|z| > 3$ result: not satisfactory

3 Representation and interpretation of measurement results

The parameter-oriented evaluation shows the measurement values including uncertainty, recovery rate, calculated z-Score and the outliers in tabular form. The results listed in the table are also represented graphically (see 5 Explanatory notes on the parameter oriented report)

4 Explanatory notes

As explained in the paragraph evaluation (page 5), the z-Score is calculated using the reproducibility standard deviation, calculated from the participants' results (after removal of outliers) in the relevant test round. As a consequence it might occur that the z-Score between -2 and 2 covers an extraordinary range, due to a high variance of the results. On the other hand, a low variation of the participants' results leads to an extraordinary small recovery rate range when applying a z-Score of -2 to +2.

The recovery rate is calculated for the individual result based on the target value. Therefore, in the case of a high variance of the results, participants should also consider recovery rates as an indicator for the necessity of internal quality assurance measures.

- Cf. copper sample M135 A, nickel sample M135 A and M135 B, cadmium sample M135 B

Sample M135 A and M135 B: For the parameter mercury no target value was calculated because of the low analyte content and the small number of submitted results.

5 Annotations on tables and charts

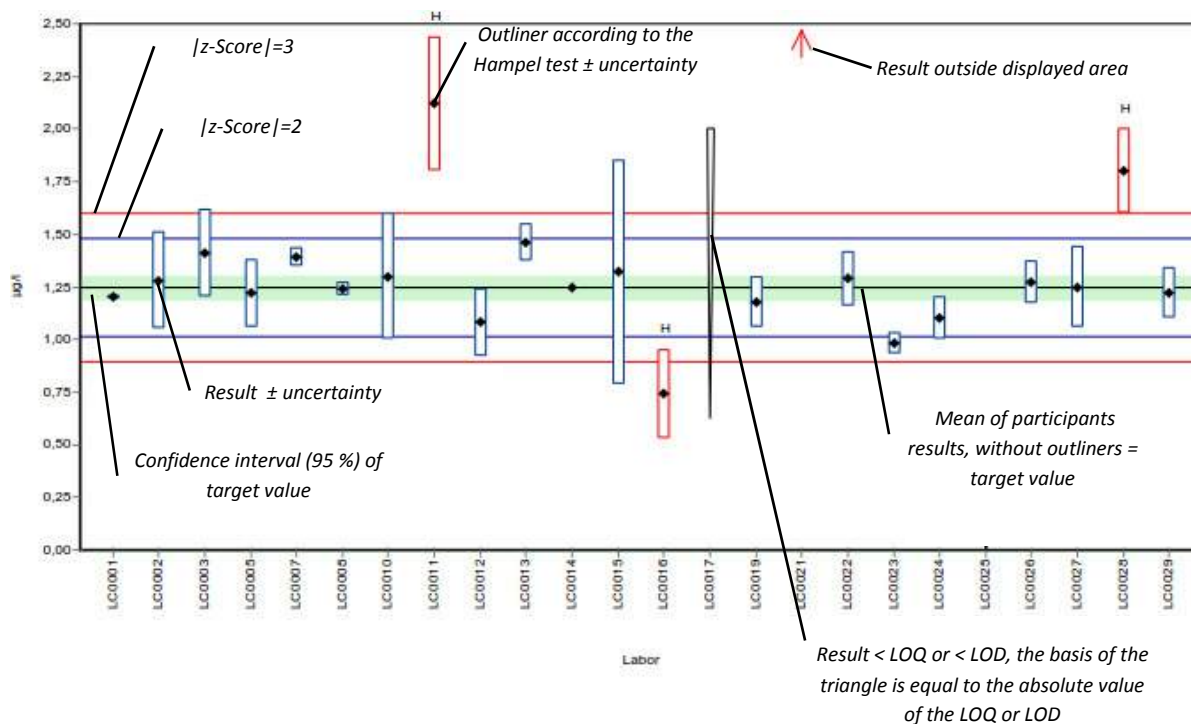
5.1 Information and abbreviations in tables

Parameter	Analyte identifier
Sample	Sample identifier
Unit	Given unit for result and uncertainty (e.g. µg/l)
Mean	Mean of the participants results, without outliers (3 significant digits)
CI (99 %)	99% confidence interval (3 significant digits)
Minimum	Minimum of all submitted results, after removal of outliers (3 significant digits)
Maximum	Maximum of all submitted results, after removal of outliers (3 significant digits)
SD	Reproducibility standard deviation, calculated from the participants results, after removal of outliers (3 significant digits)
RSD %	Reproducibility standard deviation, calculated from the participants results relative to the target value, given in %, after removal of outliers (2 significant digits)
Control test value ± U	Mean of control testing ± measurement uncertainty (3 significant digits)
Labcode	Laboratory identifier (anonymized)
Result	Result as indicated by participant (max. 5 decimal places)
± U	Results uncertainty as indicated by participant (max. 5 decimal places)
LOQ	Limit of quantification
LOD	Limit of detection
Recovery	Recovery rate in % based on target value (3 significant digits, max. one decimal place given)
z-Score	Deviation of result based on target value depicted as a multiple of the criteria (3 significant digits, max. 2 decimal places given)
-	<i>No data available</i>
Comments	Comment on the respective result (e.g. H, FN, FP)
H	Outlier according to Hampel-Test
FN	False negative – for a result < LOQ or result < LOD: The absolute value of the LOQ or LOD fulfils the condition of an outlier according to the Hampel test.
FP	False positive – for parameters where no target value is available because of a too low analyte content (n < 6):

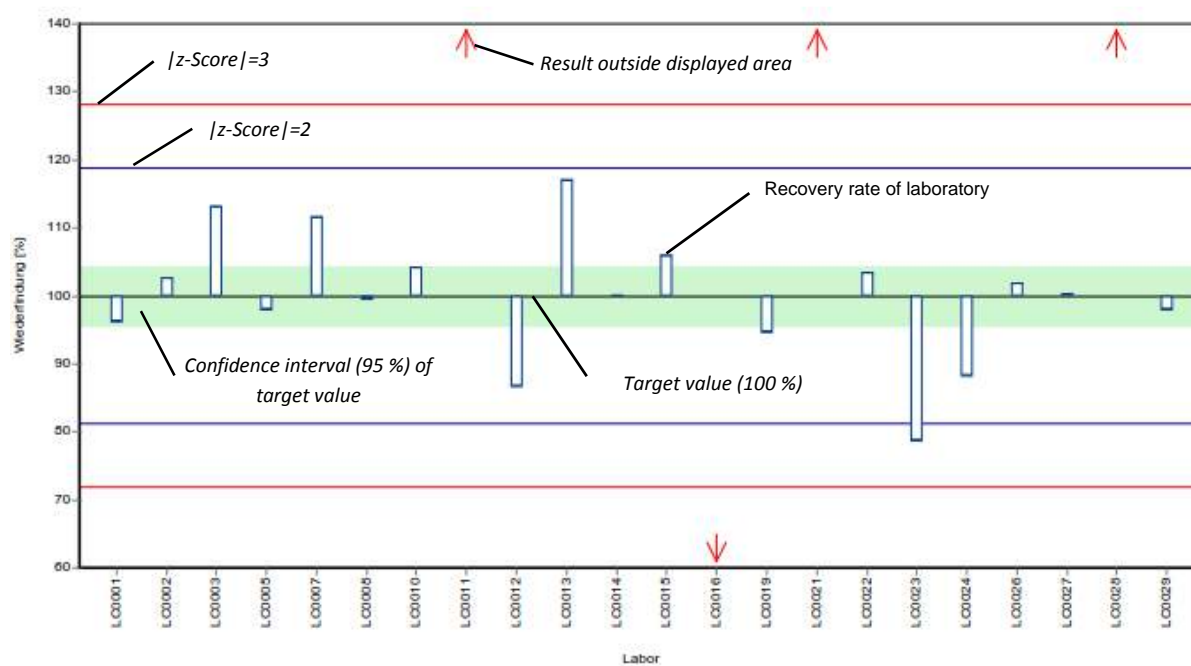
	Result that exceeds the median of the absolute values of the transmitted LOQs or LODs by more than 100 %.
Standard deviation	Reproducibility standard deviation, calculated from the participants results (3 significant digits)
Rel. standard deviation	Reproducibility standard deviation, calculated from the participants results relative to the target value, given in %, (3 significant digits)
n	Number of results
Target value	Mean of the participants results, without outliers (3 significant digits)
Criteria	Criteria for z-Score calculation. The given value matches the reproducibility standard deviation, calculated from the participants' results, after removal of outliers (3 significant digits).

5.2 Graphical presentation of results

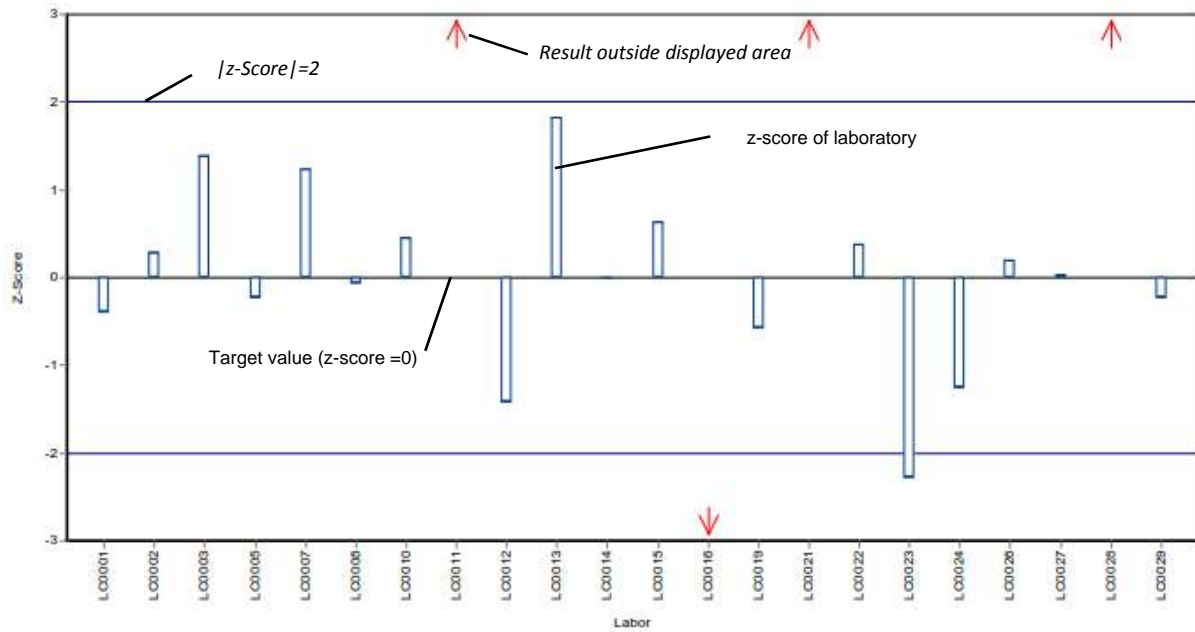
Example chart: Results



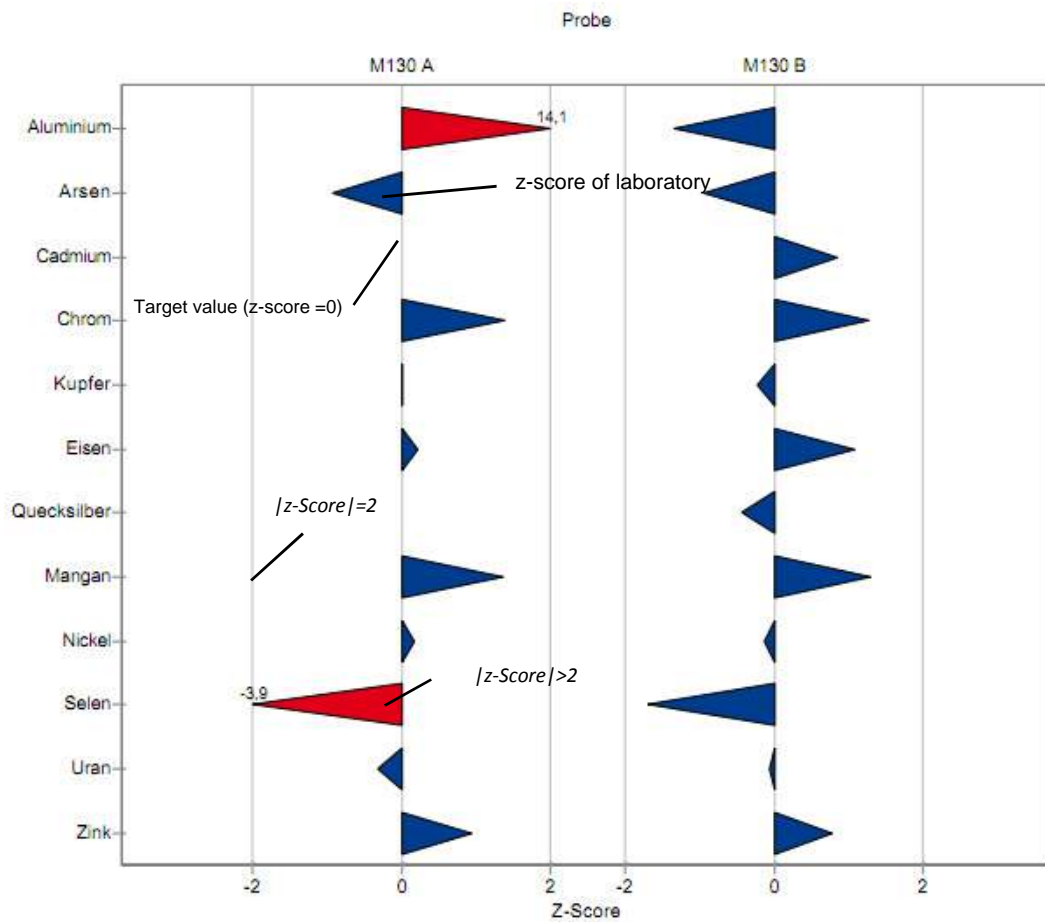
Example chart: Recovery



Example chart: z-score



Example chart: z-score - laboratory oriented report



Summary of results, after removal of outliers: Metals M135

6 Summary of results, after removal of outliers

Parameter	Sample	Unit	Number of results for calculation	Number of outliers	Mean	± CI (99%)	Minimum	Maximum	SD	RSD %
Aluminium	M135 A	µg/l	13	2	3,4	± 0,564	2,12	4,25	0,677	20
	M135 B	µg/l	6	1	0,633	± 0,265	0,351	0,88	0,216	34
Arsenic	M135 A	µg/l	14	1	0,608	± 0,0419	0,52	0,703	0,0523	8,6
	M135 B	µg/l	8	1	0,139	± 0,0173	0,11	0,161	0,0164	12
Cadmium	M135 A	µg/l	6	0	0,0234	± 0,00308	0,02	0,026	0,00252	11
	M135 B	µg/l	8	0	0,0463	± 0,00228	0,044	0,05	0,00215	4,7
Chromium	M135 A	µg/l	11	0	0,199	± 0,0147	0,18	0,23	0,0163	8,2
	M135 B	µg/l	22	2	2,08	± 0,0671	1,85	2,29	0,105	5,1
Copper	M135 A	µg/l	24	2	27,2	± 0,723	25,1	29,9	1,18	4,3
	M135 B	µg/l	23	3	4,74	± 0,195	4,3	5,7	0,312	6,6
Iron	M135 A	µg/l	24	2	26,5	± 0,924	23,9	29,8	1,51	5,7
	M135 B	µg/l	24	1	18,9	± 0,838	16,1	21	1,37	7,2
Mercury	M135 A	µg/l	2	0	-	± -	0,0286	0,59	-	-
	M135 B	µg/l	2	0	-	± -	0,0235	0,44	-	-
Manganese	M135 A	µg/l	23	0	5,6	± 0,176	5	6	0,282	5
	M135 B	µg/l	26	1	98,5	± 3,07	86,9	109	5,22	5,3
Nickel	M135 A	µg/l	9	5	0,685	± 0,0222	0,65	0,72	0,0222	3,2
	M135 B	µg/l	17	6	2,38	± 0,0848	2,1	2,67	0,117	4,9
Lead	M135 A	µg/l	13	2	0,436	± 0,0538	0,35	0,568	0,0647	15
	M135 B	µg/l	17	3	1,01	± 0,0455	0,84	1,11	0,0625	6,2
Selenium	M135 A	µg/l	6	2	0,139	± 0,0179	0,122	0,16	0,0146	11
	M135 B	µg/l	19	0	2,54	± 0,218	2	3,24	0,316	12
Uranium	M135 A	µg/l	20	1	1,08	± 0,0479	0,943	1,2	0,0714	6,6
	M135 B	µg/l	21	2	3,33	± 0,131	2,98	3,6	0,201	6
Zinc	M135 A	µg/l	25	1	60,3	± 2,32	53,7	70	3,87	6,4
	M135 B	µg/l	24	2	87,2	± 2,96	80	97	4,83	5,5

7 Parameter oriented report

Aluminum	13
Arsenic	23
Cadmium	33
Chromium	43
Copper	53
Iron	63
Mercury	73
Manganese	79
Nickel	89
Lead	99
Selenium	109
Uranium	119
Zinc	129

Parameter oriented report

M135 A

Aluminium

Unit	µg/l
Mean ± CI (99%)	3,4 ± 0,564
Minimum - Maximum	2,12 - 4,25
Control test value ± U	<5 (BG)

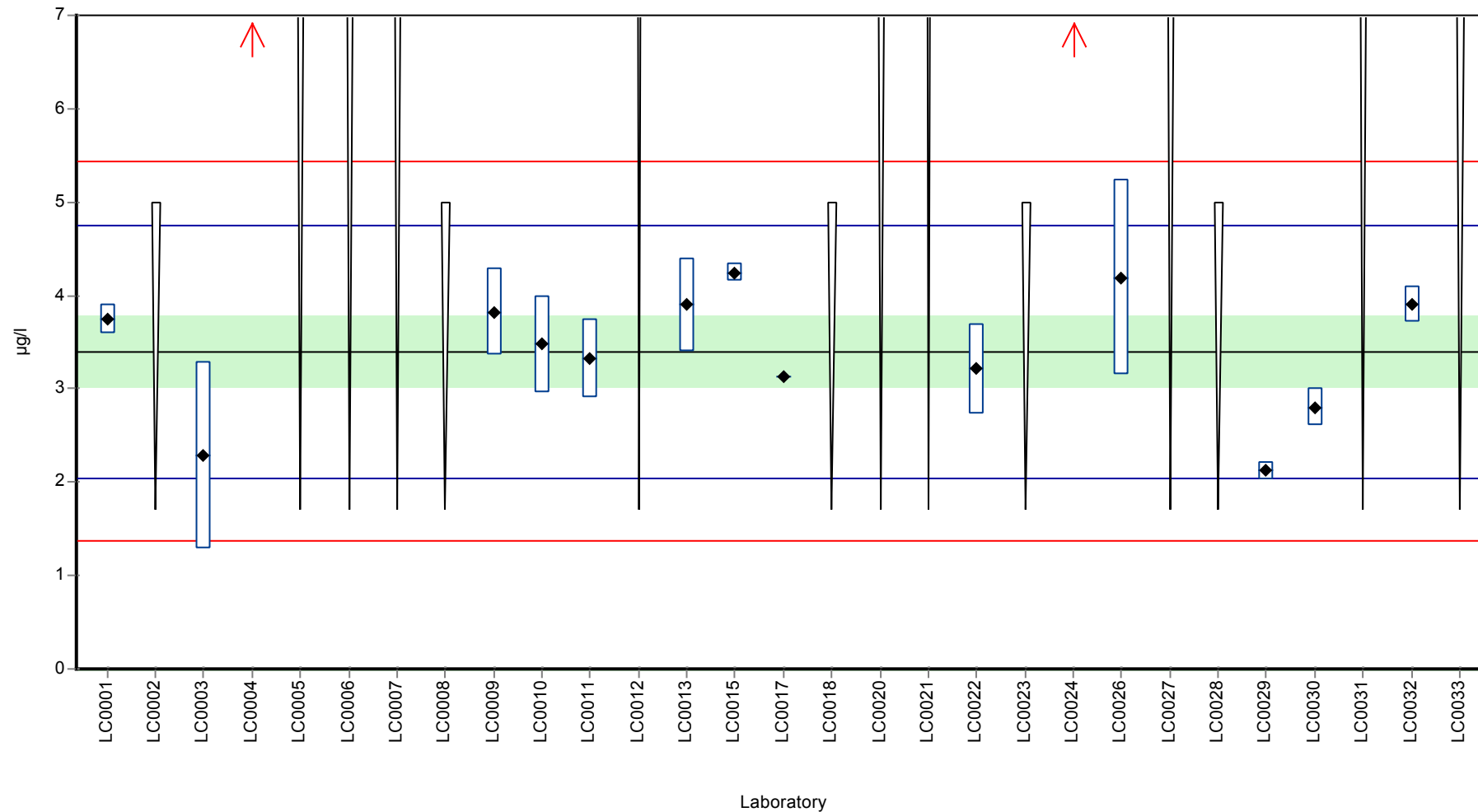
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	3,75	0,16	110	0,52	
LC0002	< 5 (LOQ)	-	-	-	
LC0003	2,29	1	67,4	-1,64	
LC0004	19,17	0,0426	564	23,3	H
LC0005	< 10 (LOQ)	-	-	-	
LC0006	< 10 (LOQ)	-	-	-	
LC0007	< 10 (LOQ)	-	-	-	
LC0008	< 5 (LOQ)	-	-	-	
LC0009	3,824	0,459	113	0,63	
LC0010	3,48	0,52	102	0,12	
LC0011	3,33	0,42	98	-0,1	
LC0012	< 20 (LOQ)	-	-	-	
LC0013	3,9	0,5	115	0,74	
LC0014	-	-	-	-	
LC0015	4,2471	0,0942	125	1,25	
LC0016	-	-	-	-	
LC0017	3,13	-	92,1	-0,4	
LC0018	< 5 (LOQ)	-	-	-	
LC0019	-	-	-	-	
LC0020	< 10 (LOQ)	-	-	-	
LC0021	< 20 (LOQ)	-	-	-	
LC0022	3,21	0,48	94,5	-0,28	
LC0023	< 5 (LOQ)	-	-	-	
LC0024	8	3	235	6,79	H
LC0025	-	-	-	-	
LC0026	4,19	1,05	123	1,17	
LC0027	< 10 (LOQ)	-	-	-	
LC0028	< 5 (LOQ)	-	-	-	
LC0029	2,12	0,103	62,4	-1,89	
LC0030	2,8	0,2	82,4	-0,88	
LC0031	< 10 (LOQ)	-	-	-	
LC0032	3,91	0,196	115	0,76	
LC0033	< 8 (LOQ)	-	-	-	

Characteristics of parameter

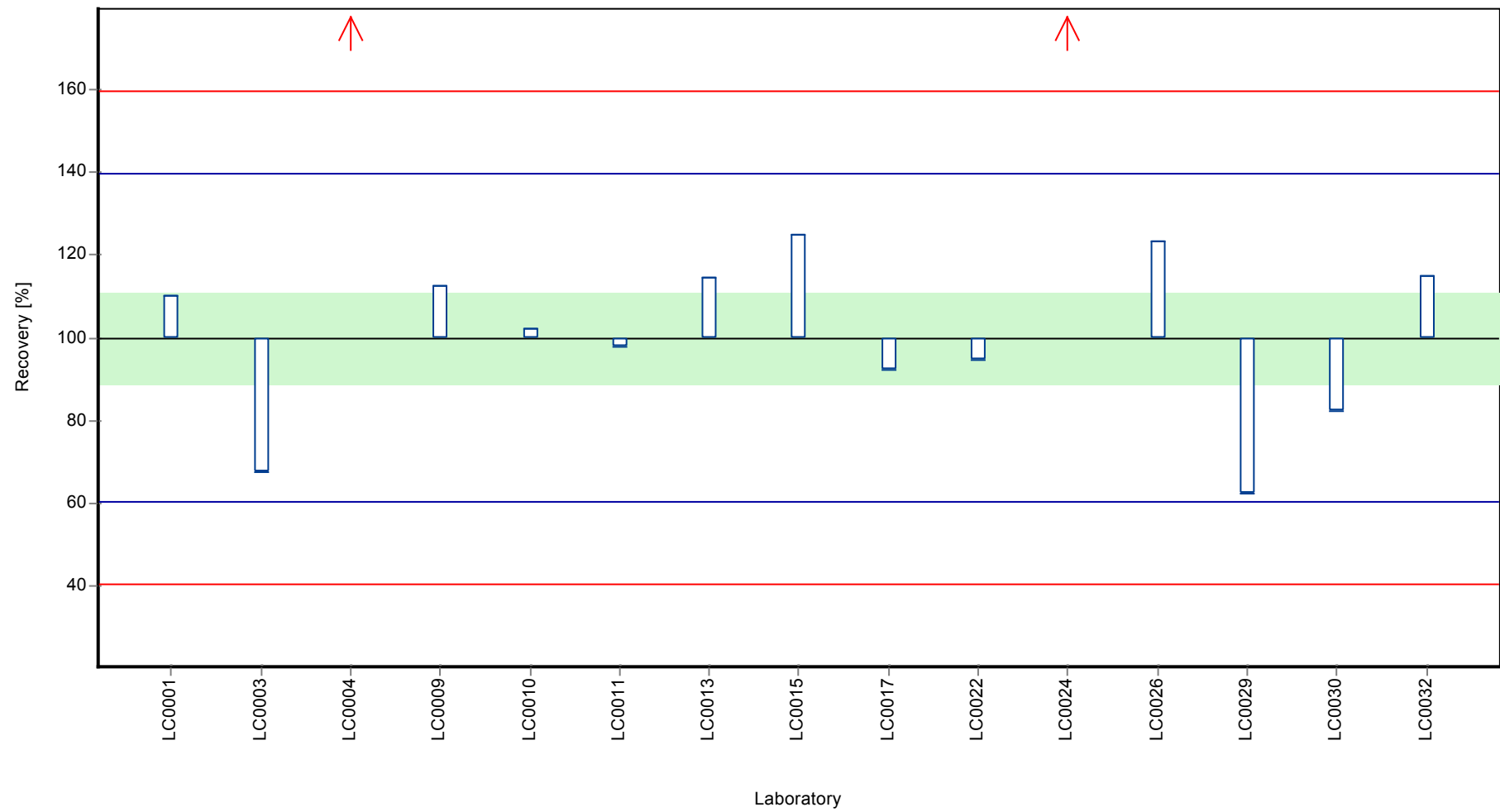
	all results	without outliers	Unit
Mean ± CI (99%)	4,76 ± 3,26	3,4 ± 0,564	µg/l
Minimum	2,12	2,12	µg/l
Maximum	19,2	4,25	µg/l
Standard deviation	4,21	0,677	µg/l
rel. Standard deviation	88,4	19,9	%
n	15	13	-

Graphical presentation of results

Results



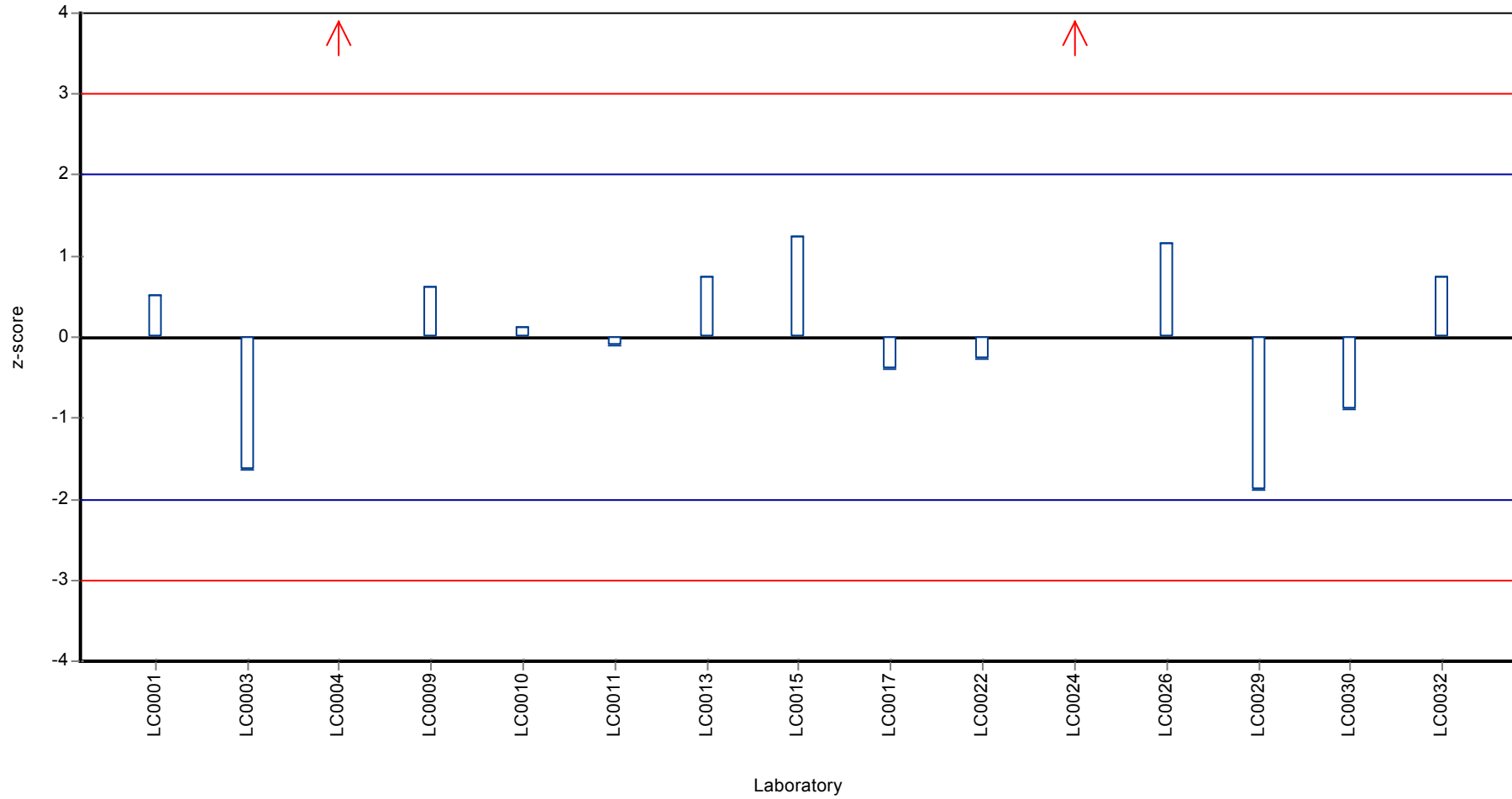
Recovery rate



Parameter oriented report Metalle M135

Sample: M135A, Parameter: Aluminium

Z-score



Parameter oriented report

M135 B

Aluminium

Unit	µg/l
Mean ± CI (99%)	0,633 ± 0,265
Minimum - Maximum	0,351 - 0,88
Control test value ± U	<5 (BG)

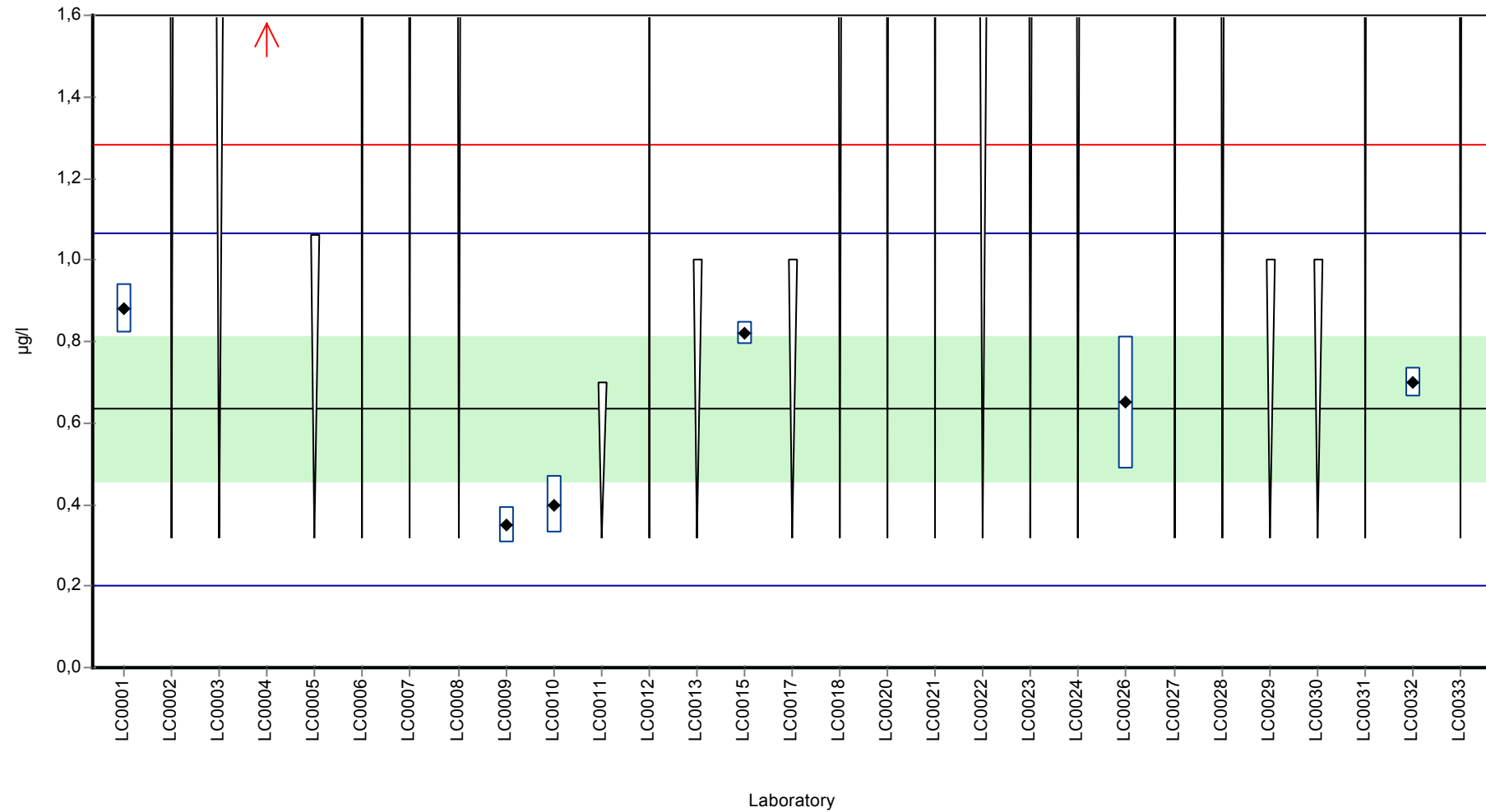
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0,88	0,06	139	1,14	
LC0002	< 5 (LOQ)	-	-	-	
LC0003	< 2 (LOQ)	-	-	-	
LC0004	22,33	0,0462	3530	100	H
LC0005	<1,06 (LOD)	-	-	-	
LC0006	< 10 (LOQ)	-	-	-	
LC0007	< 10 (LOQ)	-	-	-	
LC0008	< 5 (LOQ)	-	-	-	
LC0009	0,3508	0,0433	55,4	-1,3	
LC0010	0,4	0,07	63,2	-1,08	
LC0011	< 0,7 (LOQ)	-	-	-	
LC0012	< 20 (LOQ)	-	-	-	
LC0013	< 1 (LOQ)	-	-	-	
LC0014	-	-	-	-	
LC0015	0,8191	0,028	129	0,86	
LC0016	-	-	-	-	
LC0017	< 1 (LOQ)	-	-	-	
LC0018	< 5 (LOQ)	-	-	-	
LC0019	-	-	-	-	
LC0020	< 10 (LOQ)	-	-	-	
LC0021	< 20 (LOQ)	-	-	-	
LC0022	< 2 (LOQ)	-	-	-	
LC0023	< 5 (LOQ)	-	-	-	
LC0024	< 5 (LOQ)	-	-	-	
LC0025	-	-	-	-	
LC0026	0,65	0,163	103	0,08	
LC0027	< 10 (LOQ)	-	-	-	
LC0028	< 5 (LOQ)	-	-	-	
LC0029	< 1 (LOQ)	-	-	-	
LC0030	< 1 (LOQ)	-	-	-	
LC0031	< 10 (LOQ)	-	-	-	
LC0032	0,7	0,035	111	0,31	
LC0033	< 8 (LOQ)	-	-	-	

Characteristics of parameter

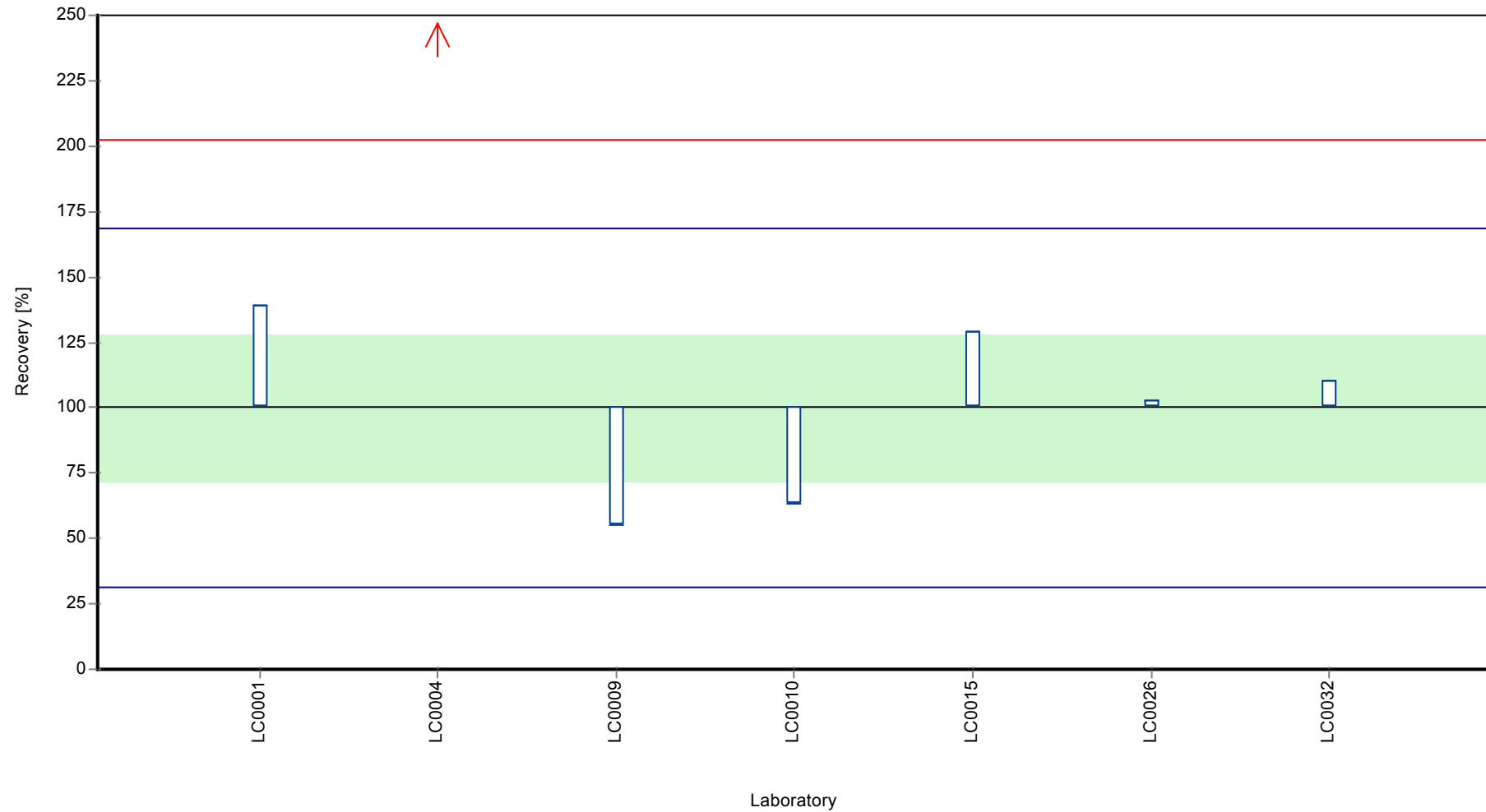
	all results	without outliers	Unit
Mean ± CI (99%)	3,73 ± 9,3	0,633 ± 0,265	µg/l
Minimum	0,351	0,351	µg/l
Maximum	22,3	0,88	µg/l
Standard deviation	8,2	0,216	µg/l
rel. Standard deviation	220	34,2	%
n	7	6	-

Graphical presentation of results

Results



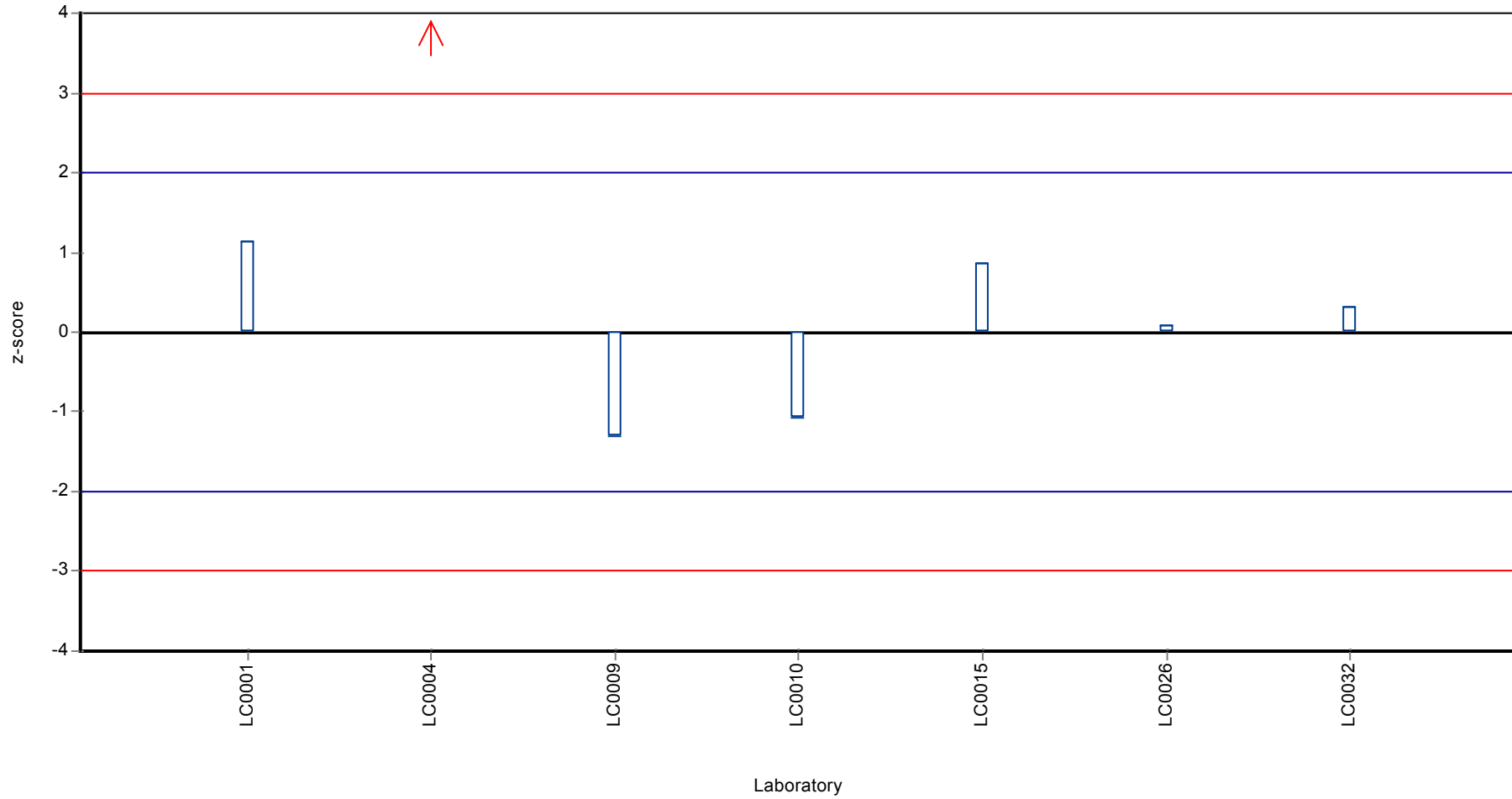
Recovery rate



Parameter oriented report Metalle M135

Sample: M135B, Parameter: Aluminium

Z-score



Parameter oriented report

M135 A

Arsen

Unit	µg/l
Mean ± CI (99%)	0,608 ± 0,0419
Minimum - Maximum	0,52 - 0,703
Control test value ± U	0,587 ± 0,0674

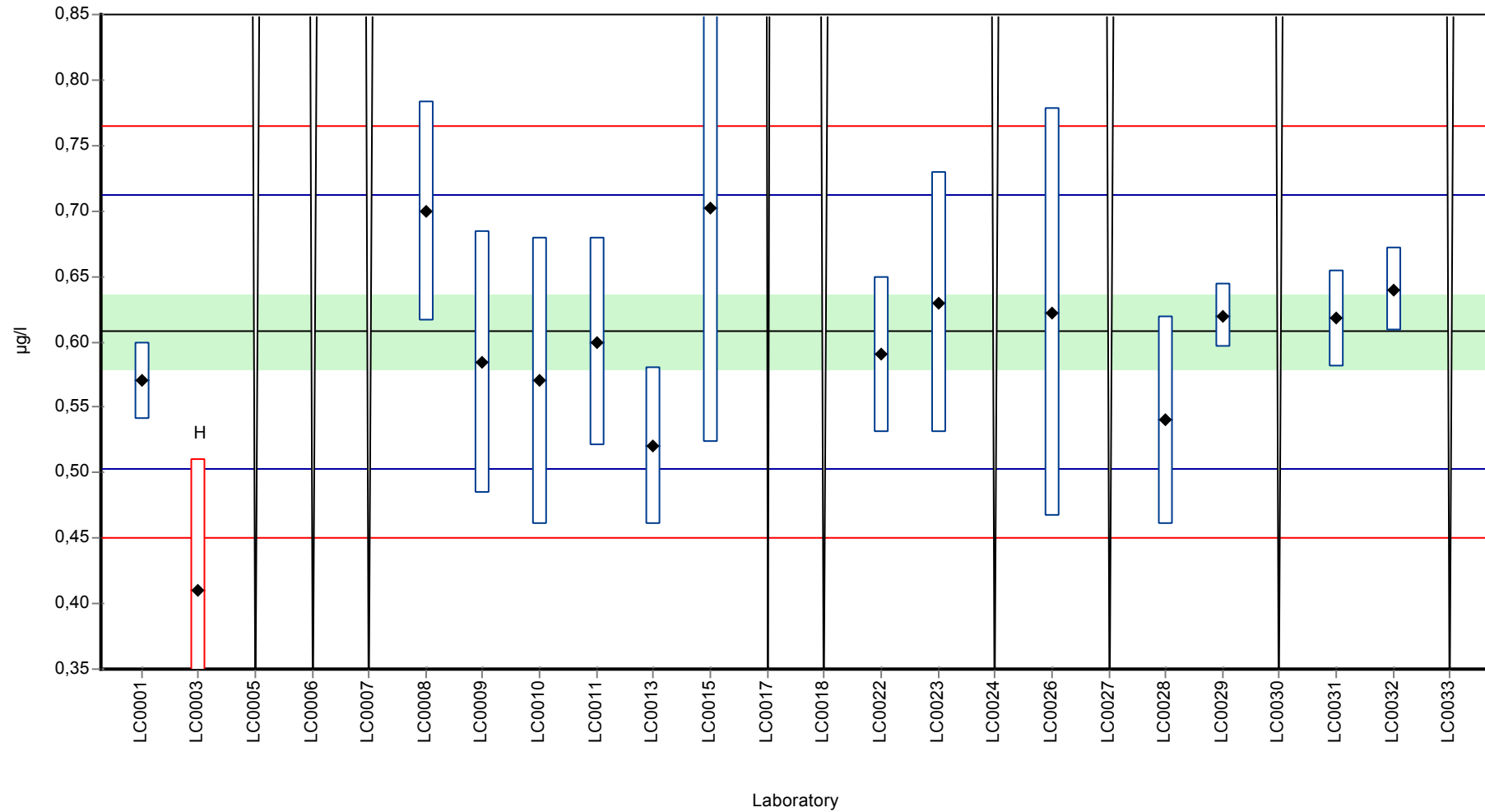
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0,57	0,03	93,8	-0,72	
LC0002	-	-	-	-	
LC0003	0,41	0,1	67,5	-3,78	H
LC0004	-	-	-	-	
LC0005	< 1 (LOQ)	-	-	-	
LC0006	< 1 (LOQ)	-	-	-	
LC0007	< 1 (LOQ)	-	-	-	
LC0008	0,7	0,084	115	1,77	
LC0009	0,5845	0,0999	96,2	-0,44	
LC0010	0,57	0,11	93,8	-0,72	
LC0011	0,6	0,08	98,7	-0,15	
LC0012	-	-	-	-	
LC0013	0,52	0,06	85,6	-1,68	
LC0014	-	-	-	-	
LC0015	0,7026	0,1798	116	1,82	
LC0016	-	-	-	-	
LC0017	< 2 (LOQ)	-	-	-	
LC0018	< 1 (LOQ)	-	-	-	
LC0019	-	-	-	-	
LC0020	-	-	-	-	
LC0021	-	-	-	-	
LC0022	0,59	0,06	97,1	-0,34	
LC0023	0,63	0,1	104	0,43	
LC0024	< 1 (LOQ)	-	-	-	
LC0025	-	-	-	-	
LC0026	0,622	0,156	102	0,27	
LC0027	< 1 (LOQ)	-	-	-	
LC0028	0,54	0,08	88,9	-1,29	
LC0029	0,62	0,025	102	0,24	
LC0030	< 1 (LOQ)	-	-	-	
LC0031	0,618	0,037	102	0,2	
LC0032	0,64	0,032	105	0,62	
LC0033	< 1 (LOQ)	-	-	-	

Characteristics of parameter

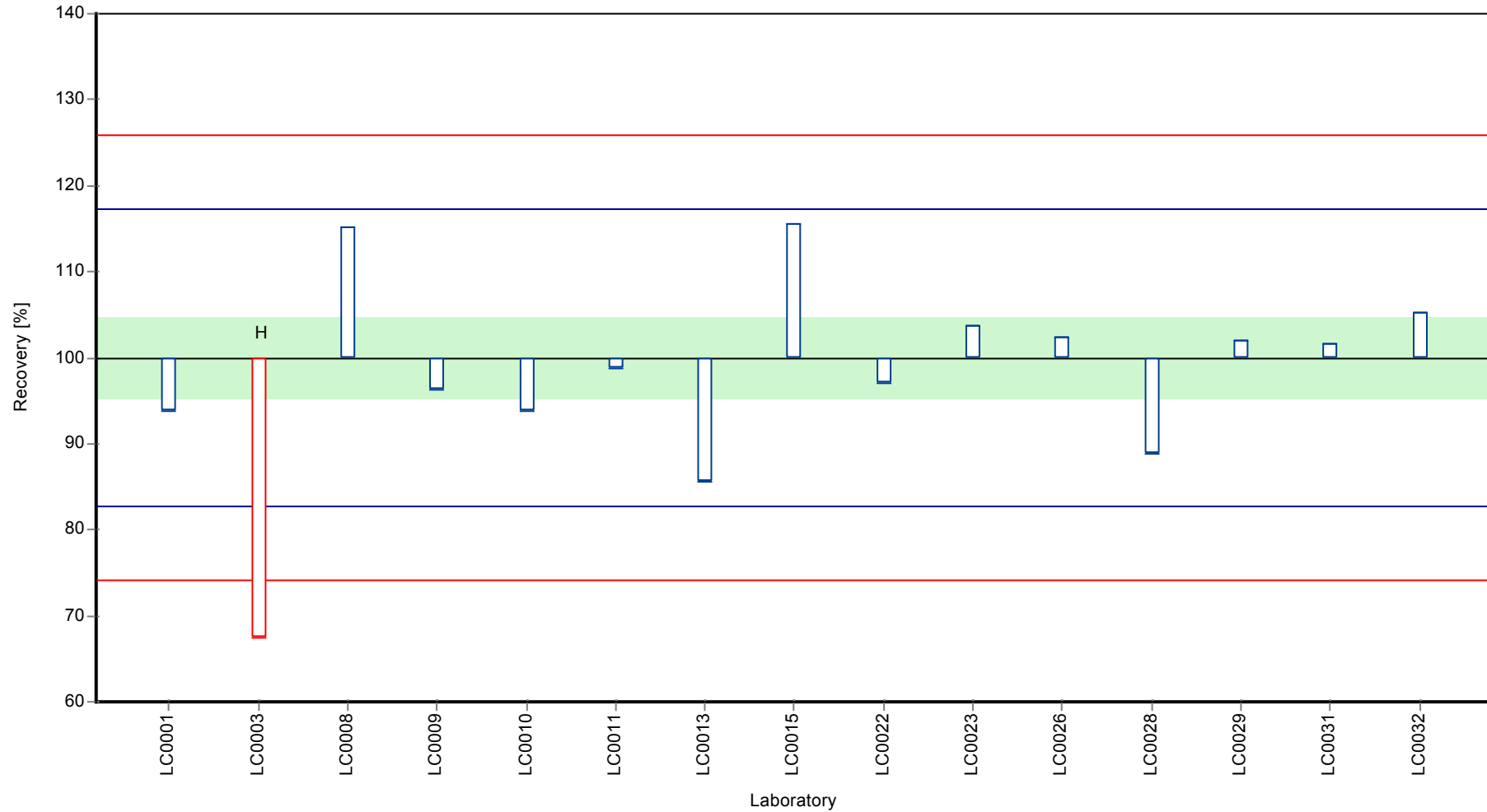
	all results	without outliers	Unit
Mean ± CI (99%)	0,594 ± 0,0556	0,608 ± 0,0419	µg/l
Minimum	0,41	0,52	µg/l
Maximum	0,703	0,703	µg/l
Standard deviation	0,0717	0,0523	µg/l
rel. Standard deviation	12,1	8,61	%
n	15	14	-

Graphical presentation of results

Results



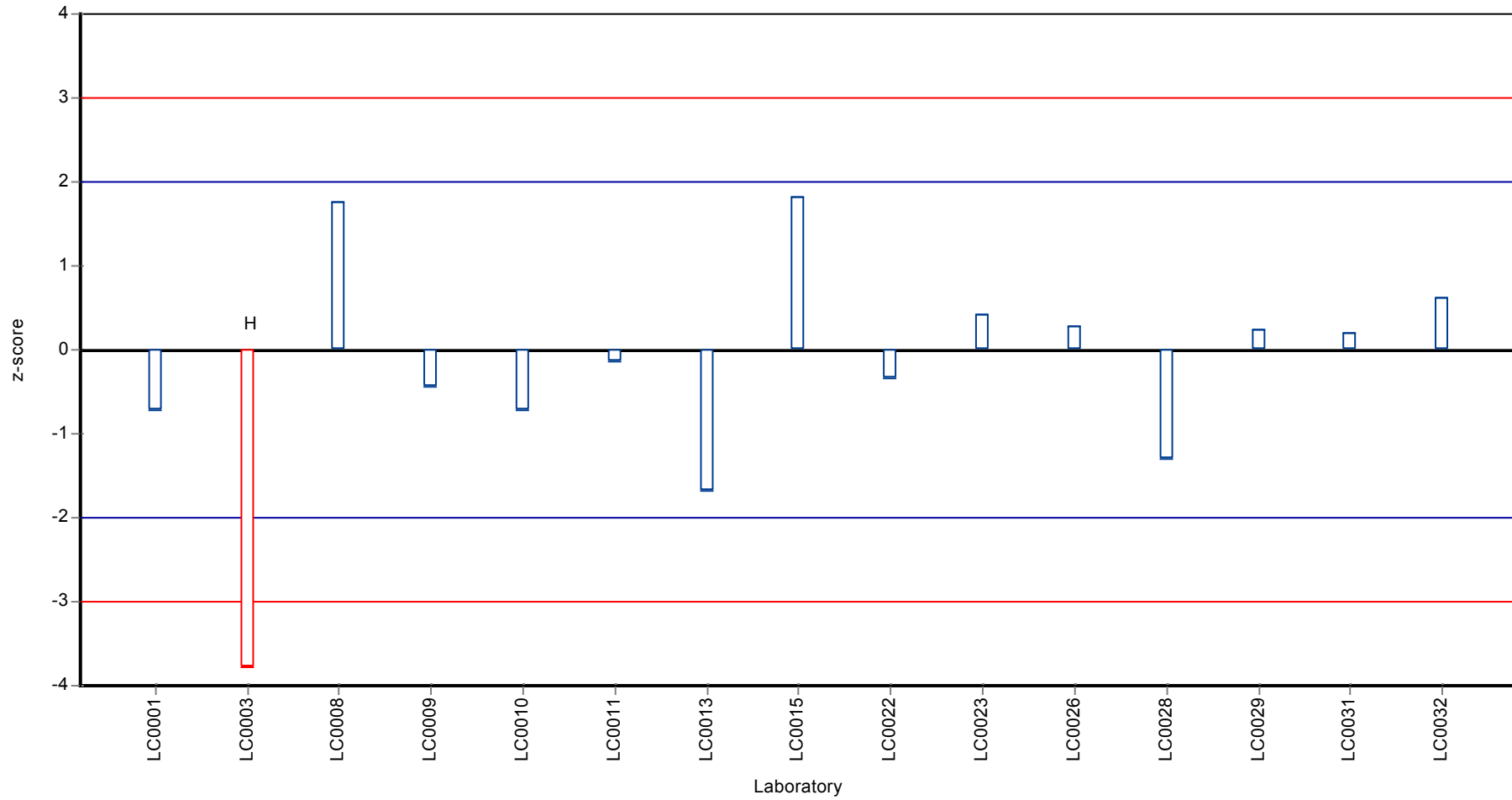
Recovery rate



Parameter oriented report Metalle M135

Sample: M135A, Parameter: Arsen

Z-score



Parameter oriented report

M135 B

Arsen

Unit	µg/l
Mean ± CI (99%)	0,139 ± 0,0173
Minimum - Maximum	0,11 - 0,161
Control test value ± U	0,144 ± 0,0262

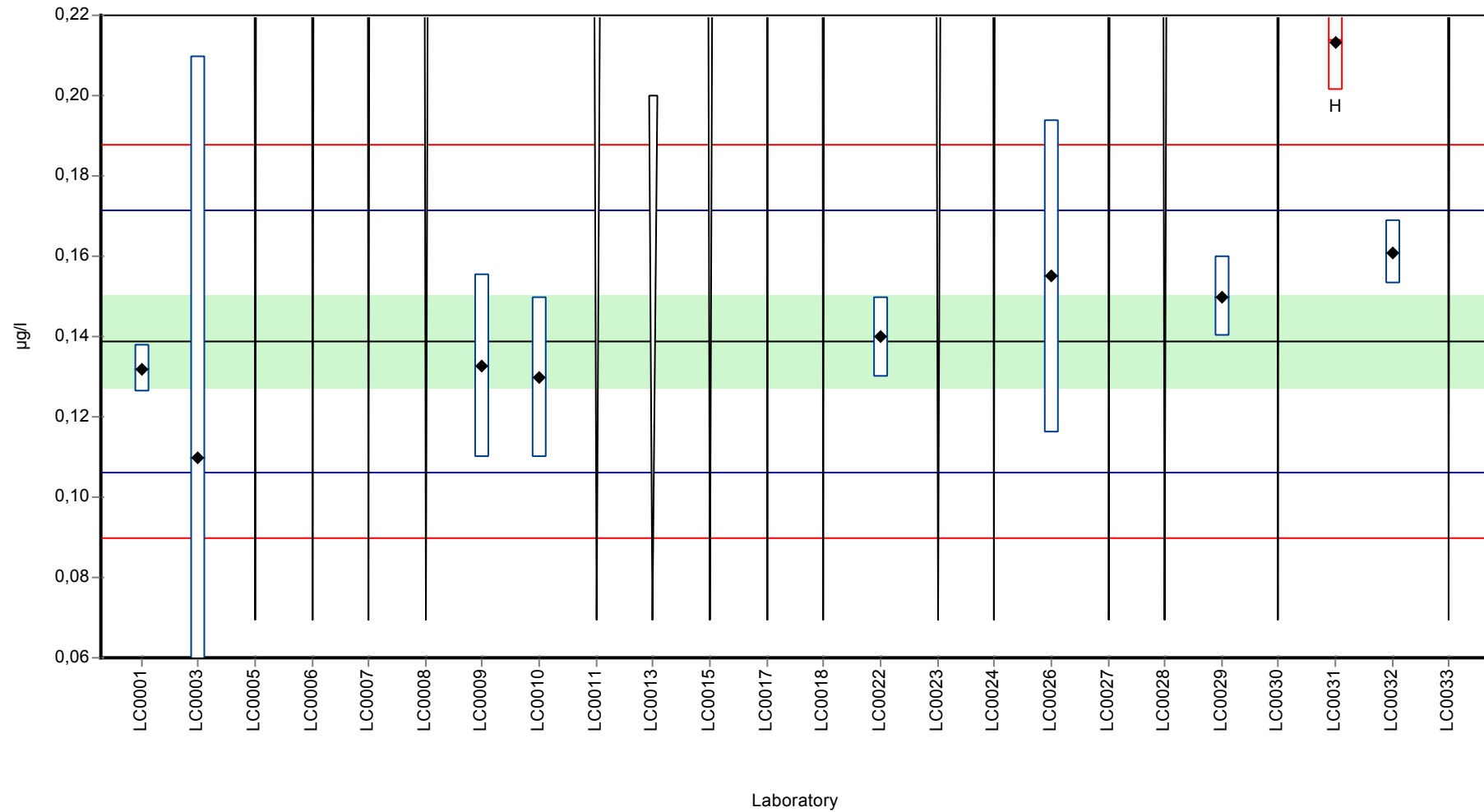
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0,132	0,006	95,1	-0,42	
LC0002	-	-	-	-	
LC0003	0,11	0,1	79,2	-1,76	
LC0004	-	-	-	-	
LC0005	< 1 (LOQ)	-	-	-	
LC0006	< 1 (LOQ)	-	-	-	
LC0007	< 1 (LOQ)	-	-	-	
LC0008	< 0,5 (LOQ)	-	-	-	
LC0009	0,1327	0,0227	95,6	-0,38	
LC0010	0,13	0,02	93,6	-0,54	
LC0011	< 0,3 (LOQ)	-	-	-	
LC0012	-	-	-	-	
LC0013	< 0,2 (LOQ)	-	-	-	
LC0014	-	-	-	-	
LC0015	< 0,4011 (LOQ)	-	-	-	
LC0016	-	-	-	-	
LC0017	< 2 (LOQ)	-	-	-	
LC0018	< 1 (LOQ)	-	-	-	
LC0019	-	-	-	-	
LC0020	-	-	-	-	
LC0021	-	-	-	-	
LC0022	0,14	0,01	101	0,07	
LC0023	< 0,4 (LOQ)	-	-	-	
LC0024	< 1 (LOQ)	-	-	-	
LC0025	-	-	-	-	
LC0026	0,155	0,039	112	0,99	
LC0027	< 1 (LOQ)	-	-	-	
LC0028	< 0,5 (LOQ)	-	-	-	
LC0029	0,15	0,01	108	0,68	
LC0030	< 1 (LOQ)	-	-	-	
LC0031	0,214	0,0128	154	4,6	H
LC0032	0,161	0,0081	116	1,36	
LC0033	< 1 (LOQ)	-	-	-	

Characteristics of parameter

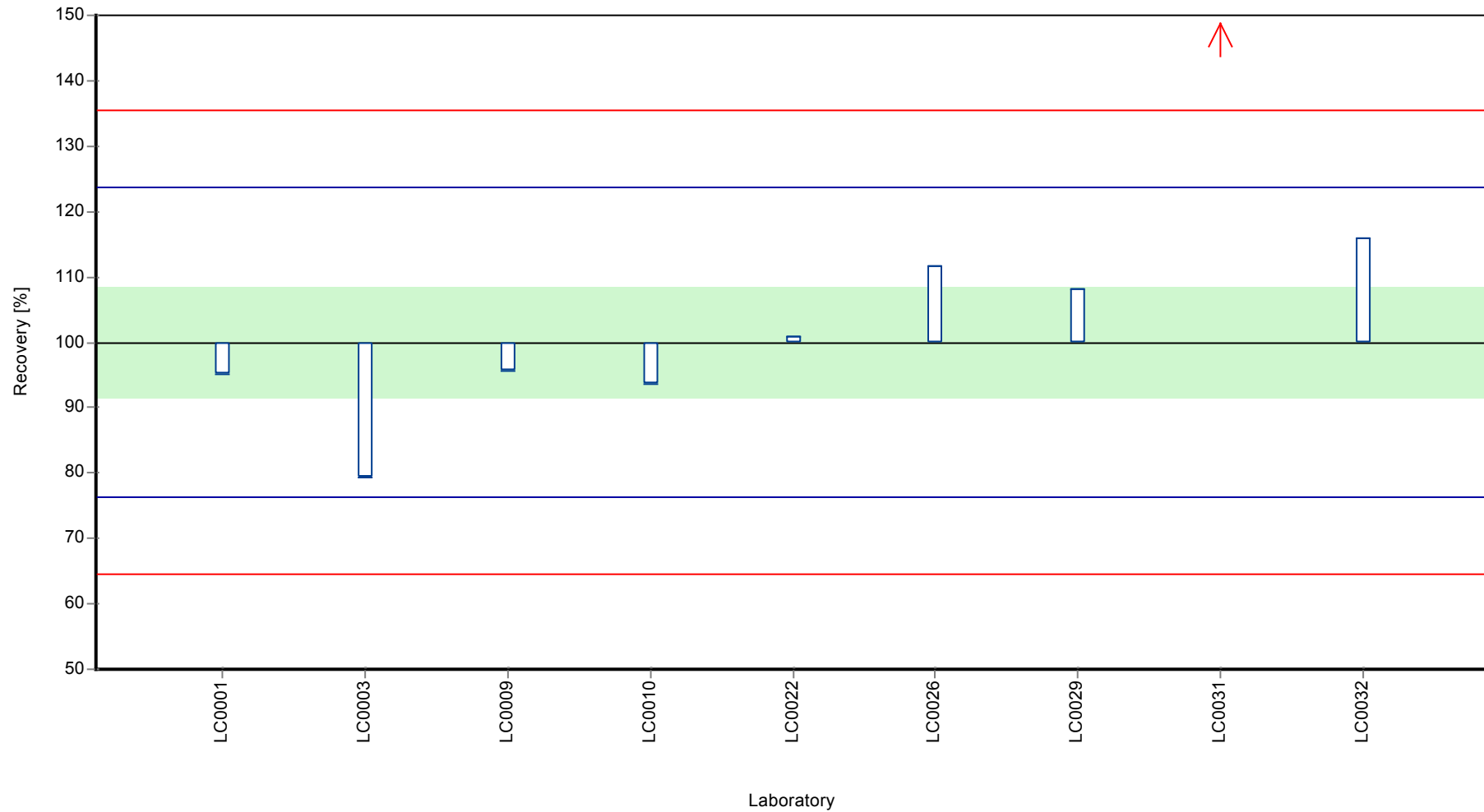
	all results	without outliers	Unit
Mean ± CI (99%)	0,147 ± 0,0294	0,139 ± 0,0173	µg/l
Minimum	0,11	0,11	µg/l
Maximum	0,214	0,161	µg/l
Standard deviation	0,0294	0,0164	µg/l
rel. Standard deviation	19,9	11,8	%
n	9	8	-

Graphical presentation of results

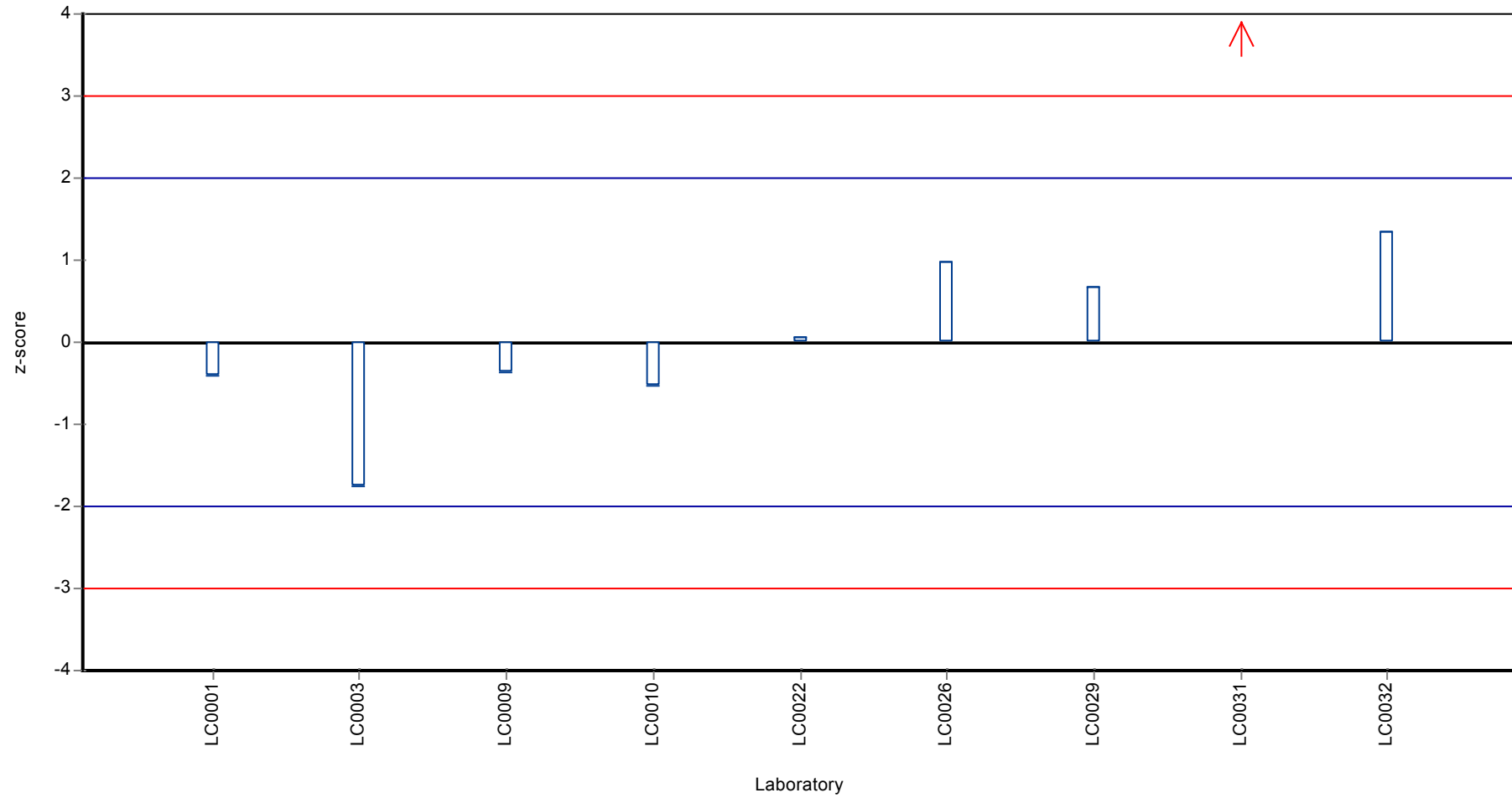
Results



Recovery rate



Z-score



Parameter oriented report

M135 A

Cadmium

Unit	µg/l
Mean ± CI (99%)	0,0234 ± 0,00308
Minimum - Maximum	0,02 - 0,026
Control test value ± U	<0,05 (BG)

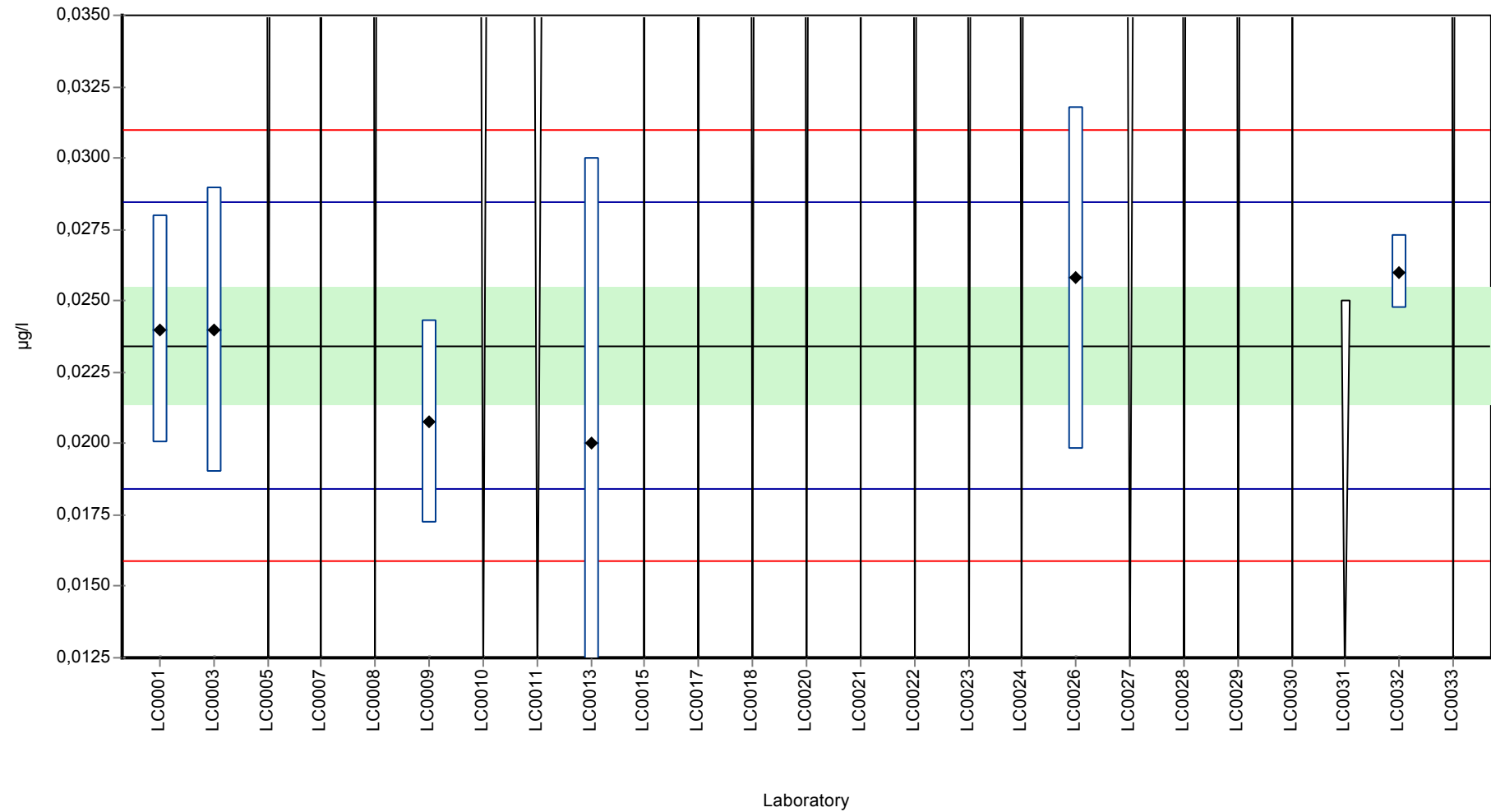
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0,024	0,004	102	0,23	
LC0002	-	-	-	-	
LC0003	0,024	0,005	102	0,23	
LC0004	-	-	-	-	
LC0005	< 0,1 (LOQ)	-	-	-	
LC0006	-	-	-	-	
LC0007	< 0,2 (LOQ)	-	-	-	
LC0008	< 0,1 (LOQ)	-	-	-	
LC0009	0,02078	0,00357	88,7	-1,05	
LC0010	< 0,05 (LOQ)	-	-	-	
LC0011	< 0,04 (LOQ)	-	-	-	
LC0012	-	-	-	-	
LC0013	0,02	0,01	85,4	-1,36	
LC0014	-	-	-	-	
LC0015	< 0,3125 (LOQ)	-	-	-	
LC0016	-	-	-	-	
LC0017	< 0,2 (LOQ)	-	-	-	
LC0018	< 0,1 (LOQ)	-	-	-	
LC0019	-	-	-	-	
LC0020	< 0,1 (LOQ)	-	-	-	
LC0021	< 0,5 (LOQ)	-	-	-	
LC0022	< 0,1 (LOQ)	-	-	-	
LC0023	< 0,1 (LOQ)	-	-	-	
LC0024	< 0,1 (LOQ)	-	-	-	
LC0025	-	-	-	-	
LC0026	0,0258	0,006	110	0,94	
LC0027	< 0,05 (LOQ)	-	-	-	
LC0028	< 0,1 (LOQ)	-	-	-	
LC0029	< 0,1 (LOQ)	-	-	-	
LC0030	< 1 (LOQ)	-	-	-	
LC0031	< 0,025 (LOQ)	-	-	-	
LC0032	0,026	0,0013	111	1,02	
LC0033	< 0,1 (LOQ)	-	-	-	

Characteristics of parameter

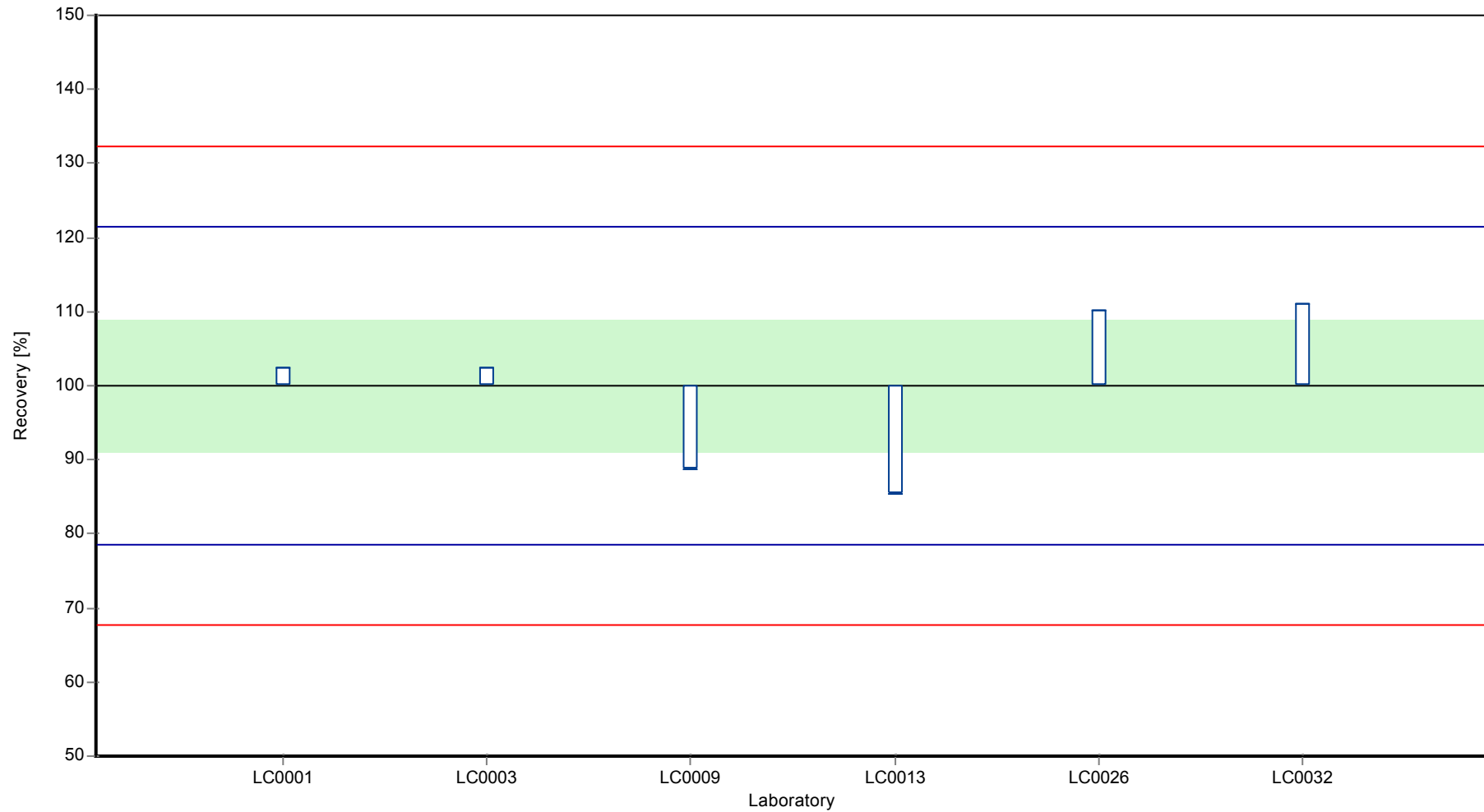
	all results	without outliers	Unit
Mean ± CI (99%)	0,0234 ± 0,00308	0,0234 ± 0,00308	µg/l
Minimum	0,02	0,02	µg/l
Maximum	0,026	0,026	µg/l
Standard deviation	0,00252	0,00252	µg/l
rel. Standard deviation	10,7	10,7	%
n	6	6	-

Graphical presentation of results

Results



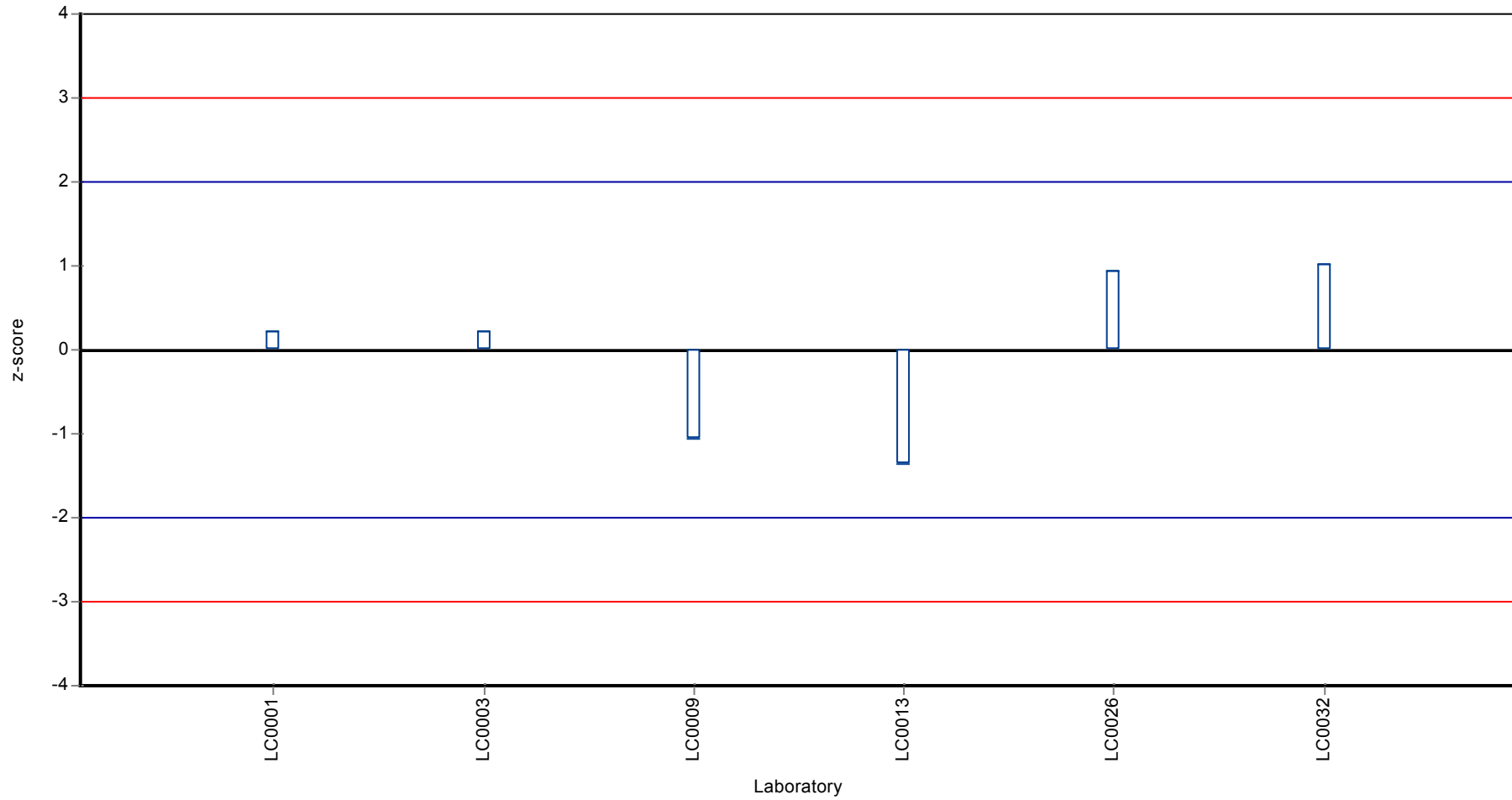
Recovery rate



Parameter oriented report Metalle M135

Sample: M135A, Parameter: Cadmium

Z-score



Parameter oriented report

M135 B

Cadmium

Unit	µg/l
Mean ± CI (99%)	0,0463 ± 0,00228
Minimum - Maximum	0,044 - 0,05
Control test value ± U	<0.05 (BG)

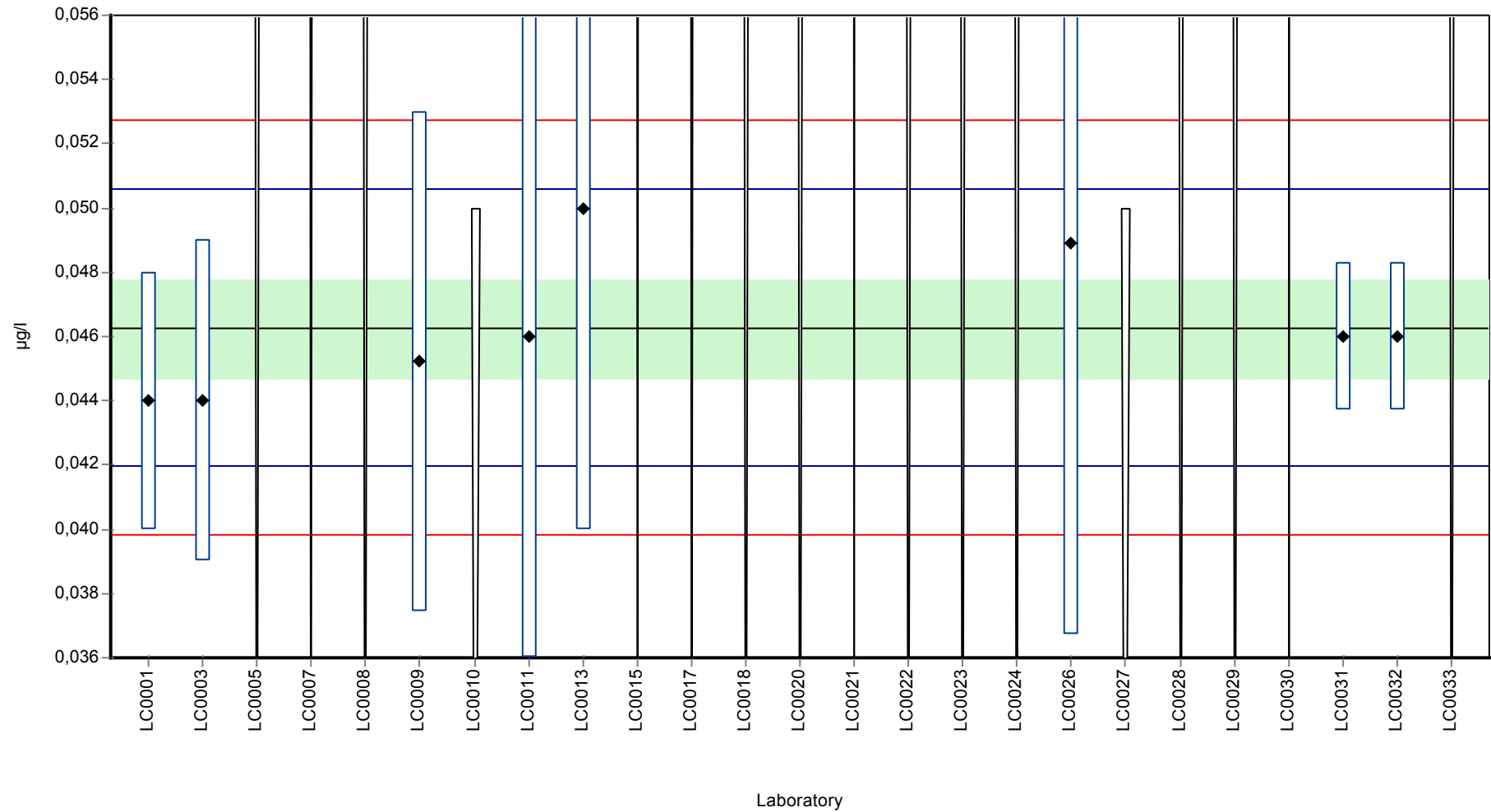
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0,044	0,004	95,1	-1,05	
LC0002	-	-	-	-	
LC0003	0,044	0,005	95,1	-1,05	
LC0004	-	-	-	-	
LC0005	< 0,1 (LOQ)	-	-	-	
LC0006	-	-	-	-	
LC0007	< 0,2 (LOQ)	-	-	-	
LC0008	< 0,1 (LOQ)	-	-	-	
LC0009	0,04522	0,00778	97,7	-0,48	
LC0010	< 0,05 (LOQ)	-	-	-	
LC0011	0,046	0,01	99,4	-0,12	
LC0012	-	-	-	-	
LC0013	0,05	0,01	108	1,73	
LC0014	-	-	-	-	
LC0015	< 0,3125 (LOQ)	-	-	-	
LC0016	-	-	-	-	
LC0017	< 0,2 (LOQ)	-	-	-	
LC0018	< 0,1 (LOQ)	-	-	-	
LC0019	-	-	-	-	
LC0020	< 0,1 (LOQ)	-	-	-	
LC0021	< 0,5 (LOQ)	-	-	-	
LC0022	< 0,1 (LOQ)	-	-	-	
LC0023	< 0,1 (LOQ)	-	-	-	
LC0024	< 0,1 (LOQ)	-	-	-	
LC0025	-	-	-	-	
LC0026	0,0489	0,0122	106	1,22	
LC0027	< 0,05 (LOQ)	-	-	-	
LC0028	< 0,1 (LOQ)	-	-	-	
LC0029	< 0,1 (LOQ)	-	-	-	
LC0030	< 1 (LOQ)	-	-	-	
LC0031	0,046	0,0023	99,4	-0,12	
LC0032	0,046	0,0023	99,4	-0,12	
LC0033	< 0,1 (LOQ)	-	-	-	

Characteristics of parameter

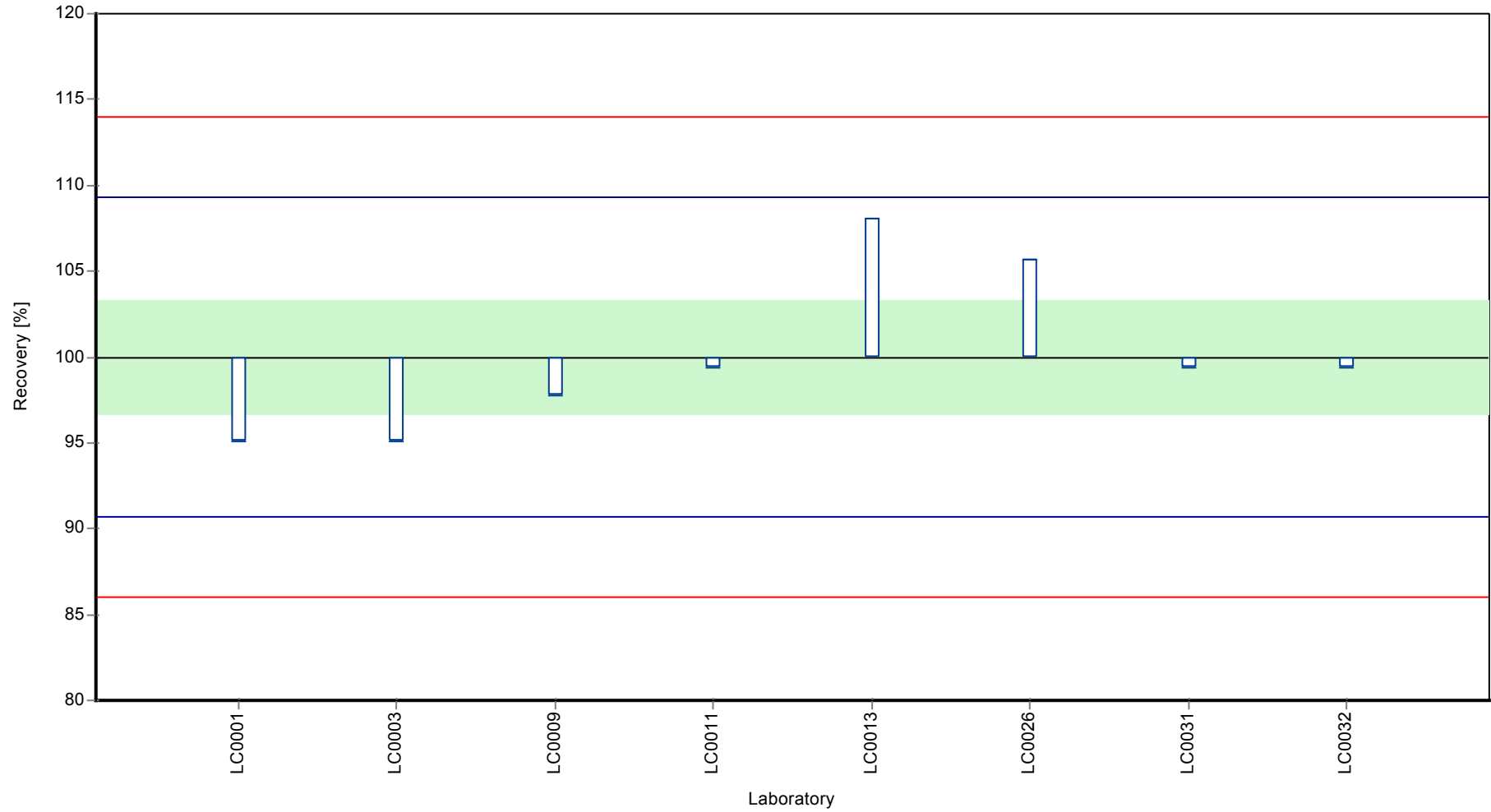
	all results	without outliers	Unit
Mean ± CI (99%)	0,0463 ± 0,00228	0,0463 ± 0,00228	µg/l
Minimum	0,044	0,044	µg/l
Maximum	0,05	0,05	µg/l
Standard deviation	0,00215	0,00215	µg/l
rel. Standard deviation	4,65	4,65	%
n	8	8	-

Graphical presentation of results

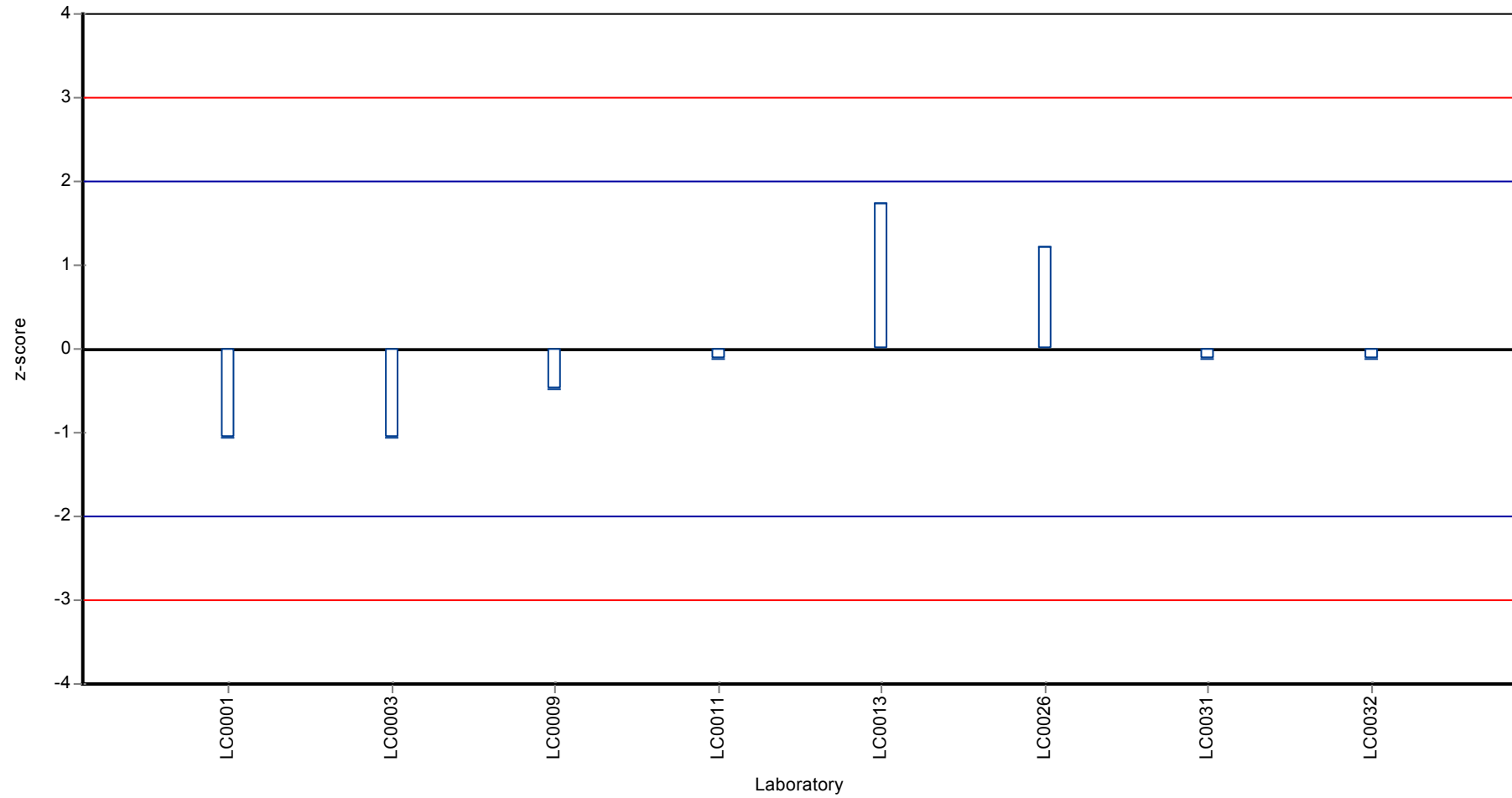
Results



Recovery rate



Z-score



Parameter oriented report

M135 A

Chrom

Unit	µg/l
Mean ± CI (99%)	0,199 ± 0,0147
Minimum - Maximum	0,18 - 0,23
Control test value ± U	<0,5 (BG)

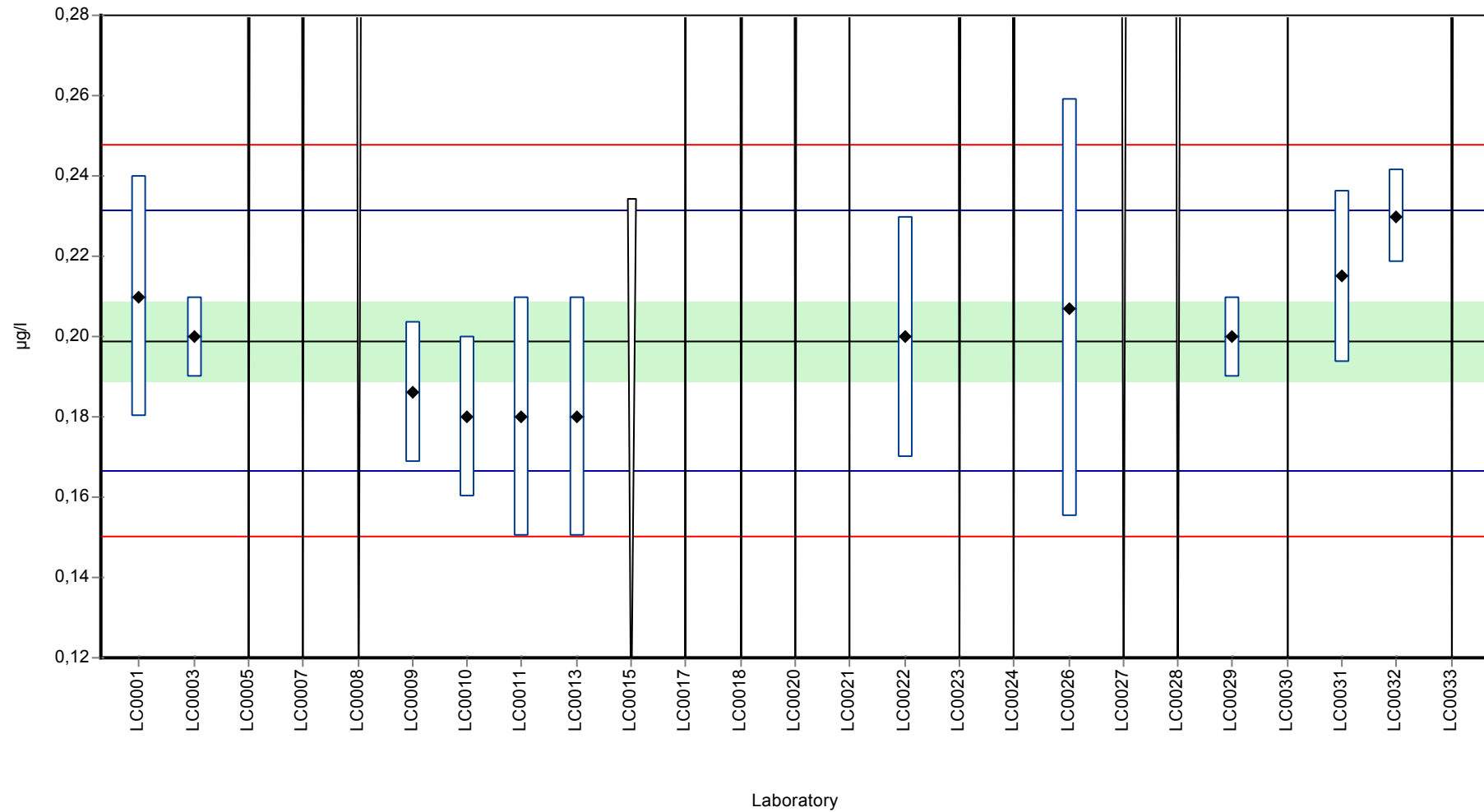
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0,21	0,03	106	0,68	
LC0002	-	-	-	-	
LC0003	0,2	0,01	101	0,07	
LC0004	-	-	-	-	
LC0005	< 1 (LOQ)	-	-	-	
LC0006	-	-	-	-	
LC0007	< 1 (LOQ)	-	-	-	
LC0008	< 0,5 (LOQ)	-	-	-	
LC0009	0,1861	0,0177	93,6	-0,79	
LC0010	0,18	0,02	90,5	-1,16	
LC0011	0,18	0,03	90,5	-1,16	
LC0012	-	-	-	-	
LC0013	0,18	0,03	90,5	-1,16	
LC0014	-	-	-	-	
LC0015	< 0,2341 (LOQ)	-	-	-	
LC0016	-	-	-	-	
LC0017	< 2 (LOQ)	-	-	-	
LC0018	< 1 (LOQ)	-	-	-	
LC0019	-	-	-	-	
LC0020	< 1 (LOQ)	-	-	-	
LC0021	< 5 (LOQ)	-	-	-	
LC0022	0,2	0,03	101	0,07	
LC0023	< 1 (LOQ)	-	-	-	
LC0024	< 1 (LOQ)	-	-	-	
LC0025	-	-	-	-	
LC0026	0,207	0,052	104	0,5	
LC0027	< 0,5 (LOQ)	-	-	-	
LC0028	< 0,5 (LOQ)	-	-	-	
LC0029	0,2	0,01	101	0,07	
LC0030	< 10 (LOQ)	-	-	-	
LC0031	0,215	0,0215	108	0,99	
LC0032	0,23	0,0115	116	1,91	
LC0033	< 1 (LOQ)	-	-	-	

Characteristics of parameter

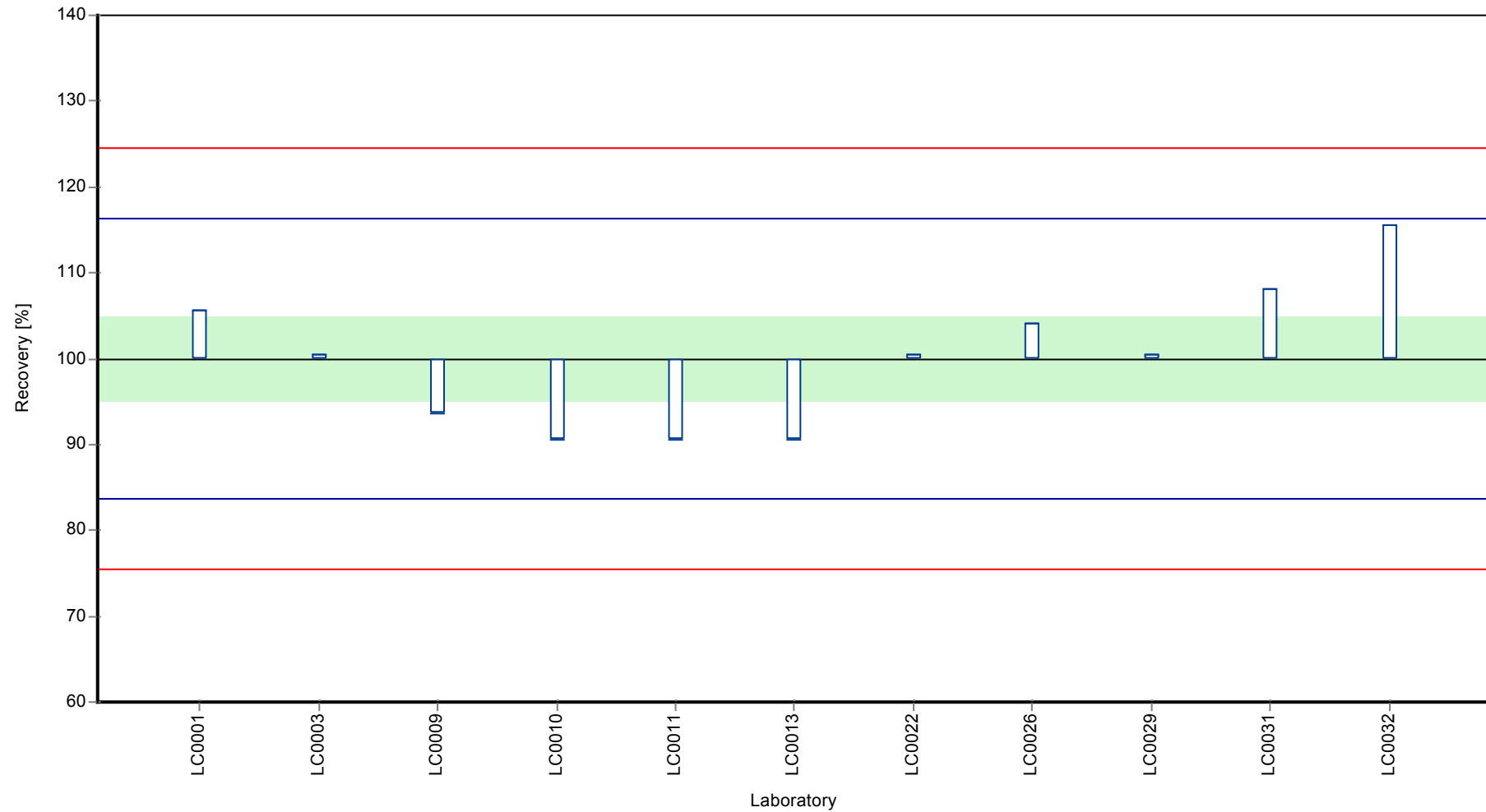
	all results	without outliers	Unit
Mean ± CI (99%)	0,199 ± 0,0147	0,199 ± 0,0147	µg/l
Minimum	0,18	0,18	µg/l
Maximum	0,23	0,23	µg/l
Standard deviation	0,0163	0,0163	µg/l
rel. Standard deviation	8,19	8,19	%
n	11	11	-

Graphical presentation of results

Results



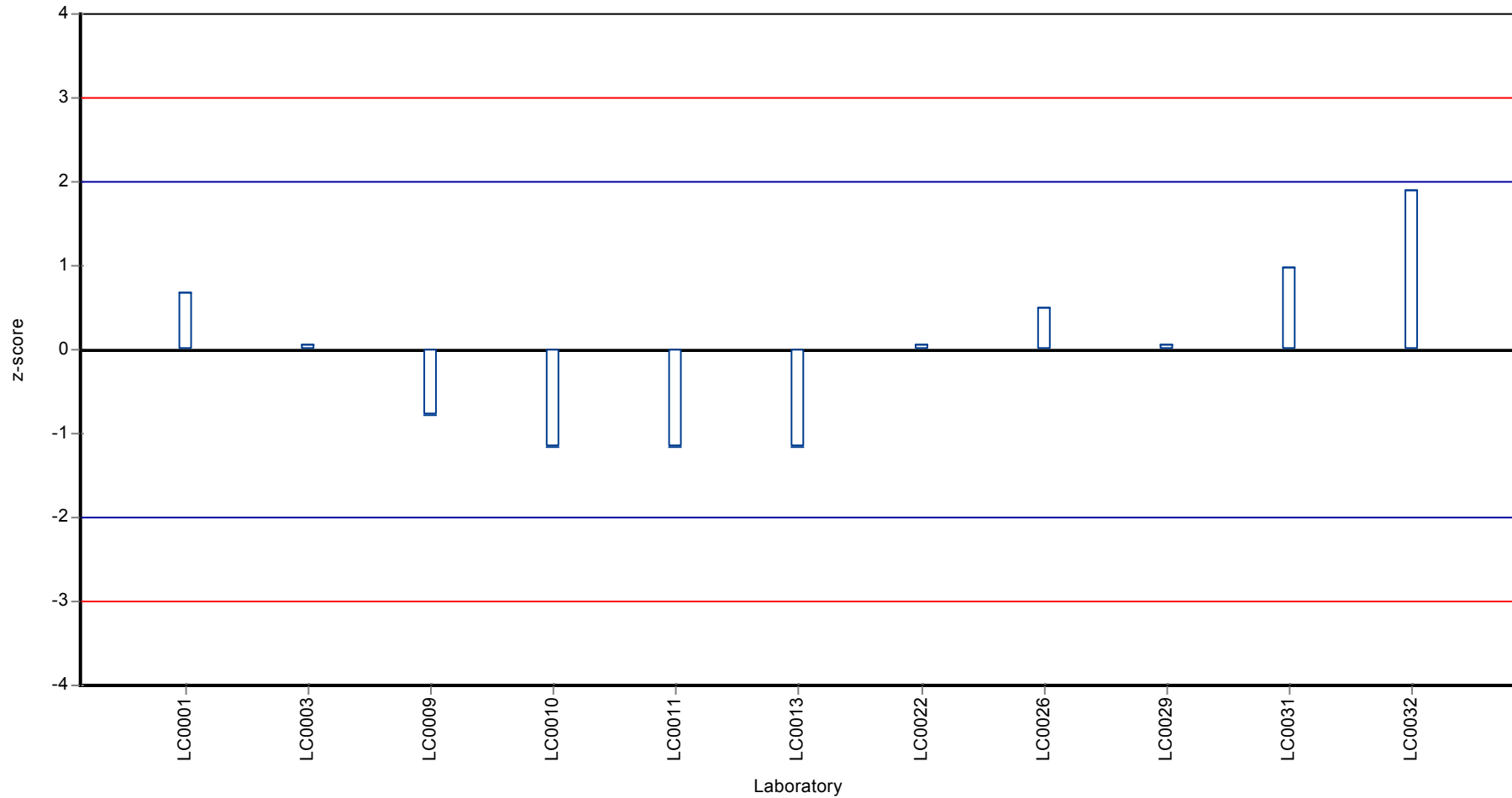
Recovery rate



Parameter oriented report Metalle M135

Sample: M135A, Parameter: Chrom

Z-score



Parameter oriented report

M135 B

Chrom

Unit	µg/l
Mean ± CI (99%)	2,08 ± 0,0671
Minimum - Maximum	1,85 - 2,29
Control test value ± U	2,13 ± 0,0738

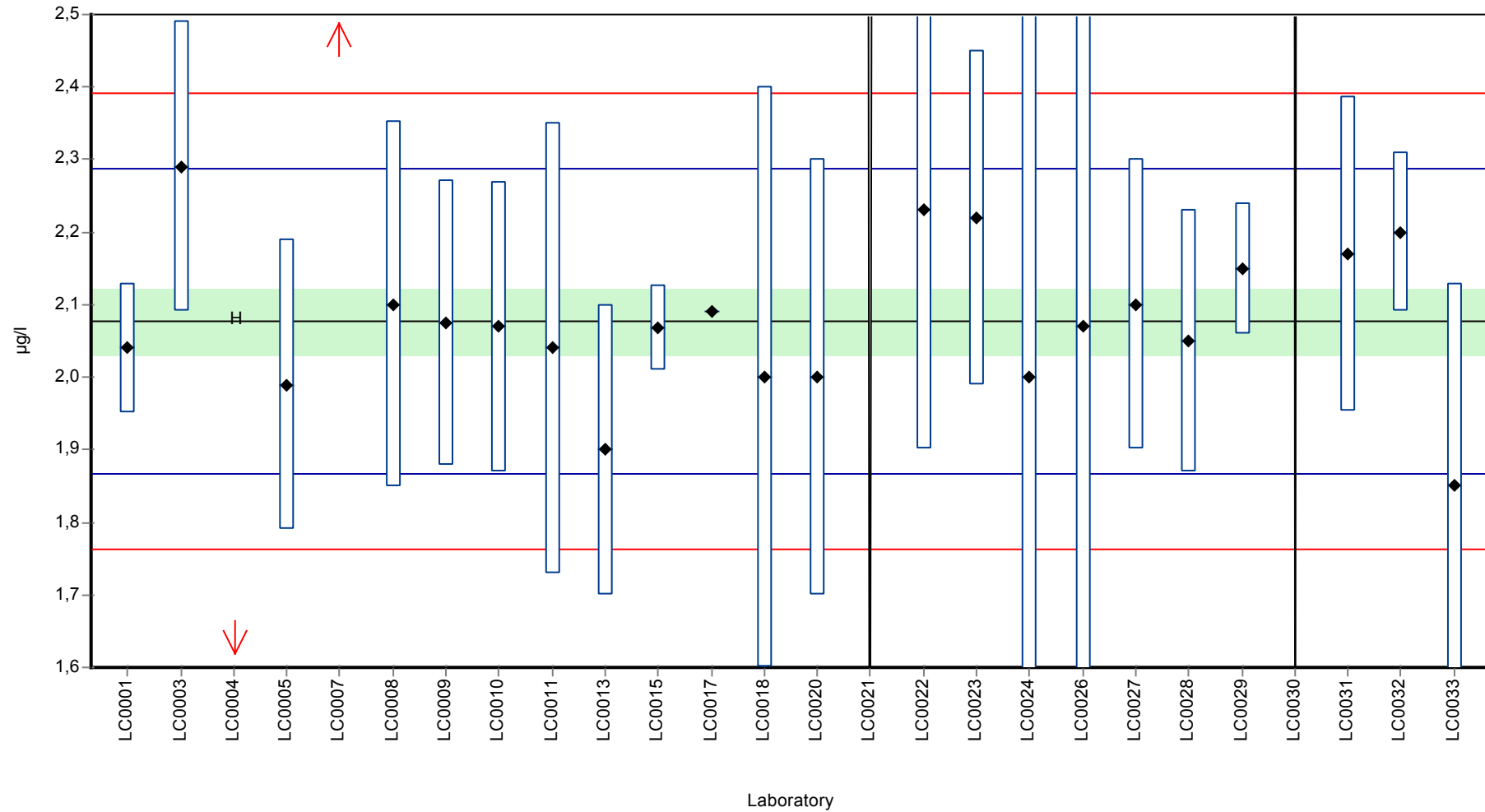
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	2,04	0,09	98,2	-0,36	
LC0002	-	-	-	-	
LC0003	2,29	0,2	110	2,03	
LC0004	1	1,0444	48,1	-10,3	H
LC0005	1,99	0,2	95,8	-0,83	
LC0006	-	-	-	-	
LC0007	2,8	0,42	135	6,88	H
LC0008	2,1	0,252	101	0,21	
LC0009	2,075	0,197	99,9	-0,02	
LC0010	2,07	0,2	99,6	-0,07	
LC0011	2,04	0,31	98,2	-0,36	
LC0012	-	-	-	-	
LC0013	1,9	0,2	91,5	-1,69	
LC0014	-	-	-	-	
LC0015	2,0685	0,0583	99,6	-0,09	
LC0016	-	-	-	-	
LC0017	2,09	-	101	0,12	
LC0018	2	0,4	96,3	-0,74	
LC0019	-	-	-	-	
LC0020	2	0,3	96,3	-0,74	
LC0021	< 5 (LOQ)	-	-	-	
LC0022	2,23	0,33	107	1,45	
LC0023	2,22	0,23	107	1,36	
LC0024	2	1	96,3	-0,74	
LC0025	-	-	-	-	
LC0026	2,07	0,52	99,6	-0,07	
LC0027	2,1	0,2	101	0,21	
LC0028	2,05	0,18	98,7	-0,26	
LC0029	2,15	0,09	103	0,69	
LC0030	< 10 (LOQ)	-	-	-	
LC0031	2,17	0,217	104	0,88	
LC0032	2,2	0,11	106	1,17	
LC0033	1,85	0,28	89,1	-2,17	

Characteristics of parameter

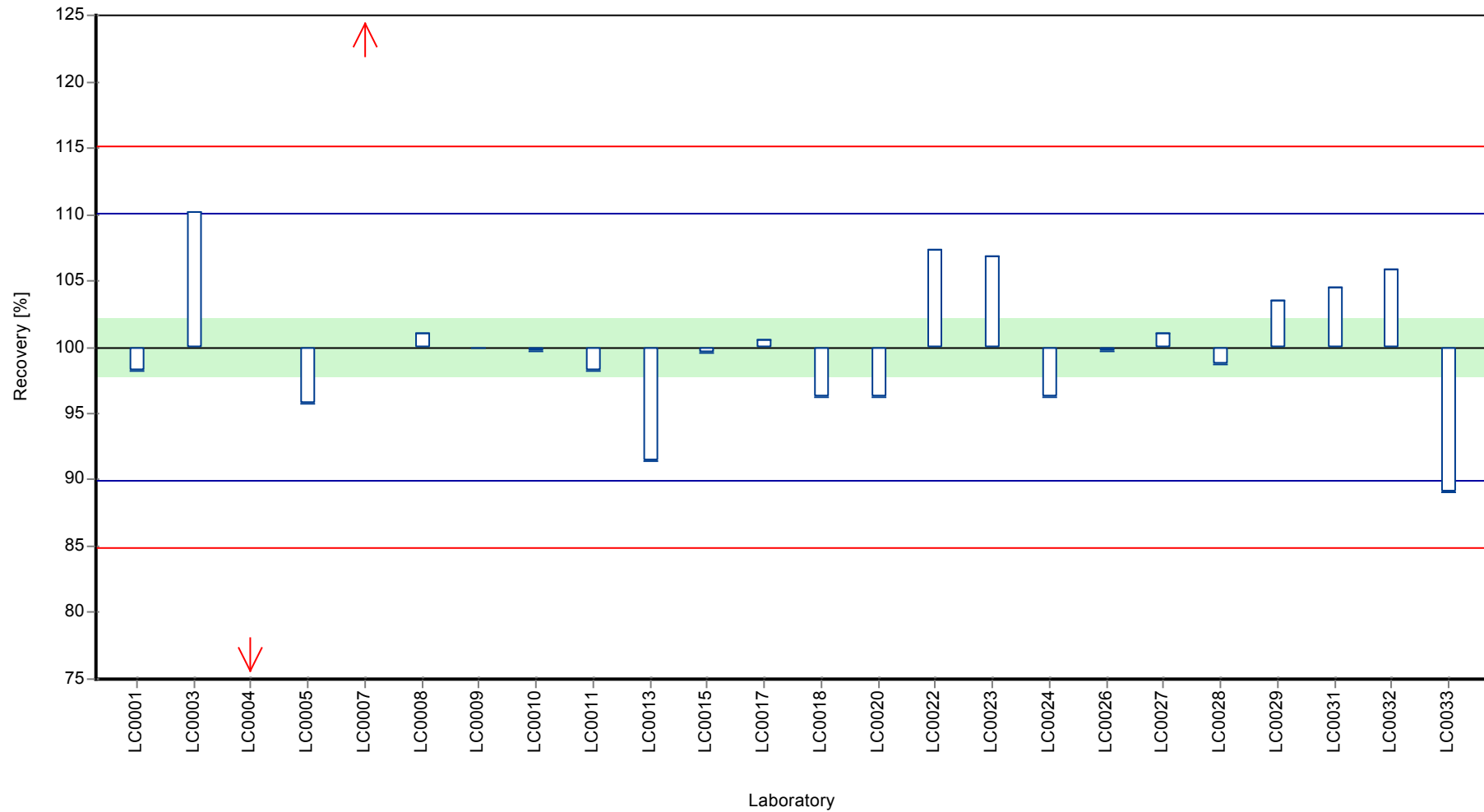
	all results	without outliers	Unit
Mean ± CI (99%)	2,06 ± 0,176	2,08 ± 0,0671	µg/l
Minimum	1	1,85	µg/l
Maximum	2,8	2,29	µg/l
Standard deviation	0,288	0,105	µg/l
rel. Standard deviation	14	5,05	%
n	24	22	-

Graphical presentation of results

Results



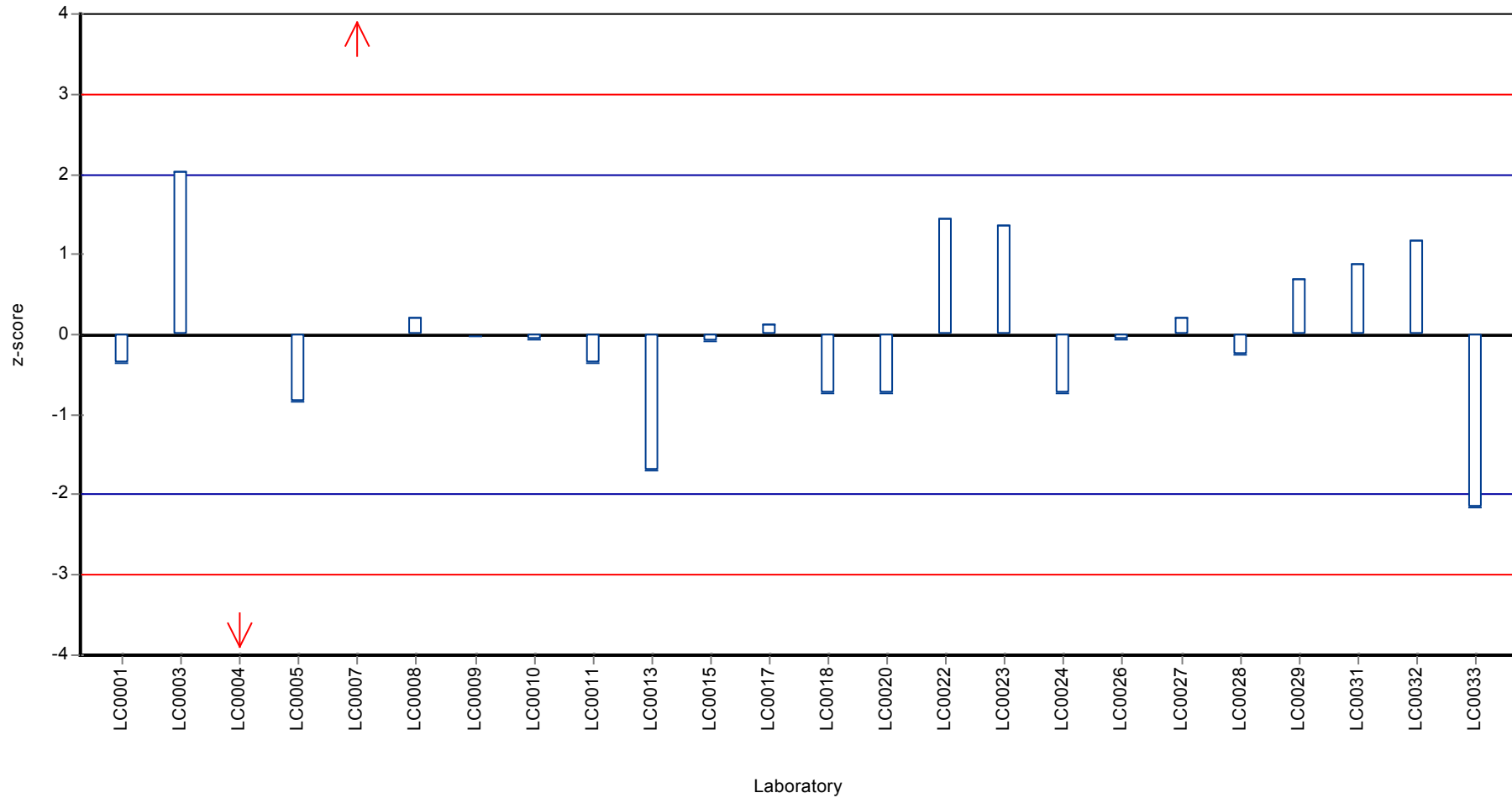
Recovery rate



Parameter oriented report Metalle M135

Sample: M135B, Parameter: Chrom

Z-score



Parameter oriented report

M135 A

Kupfer

Unit	µg/l
Mean ± CI (99%)	27,2 ± 0,723
Minimum - Maximum	25,1 - 29,9
Control test value ± U	26,0 ± 1,42

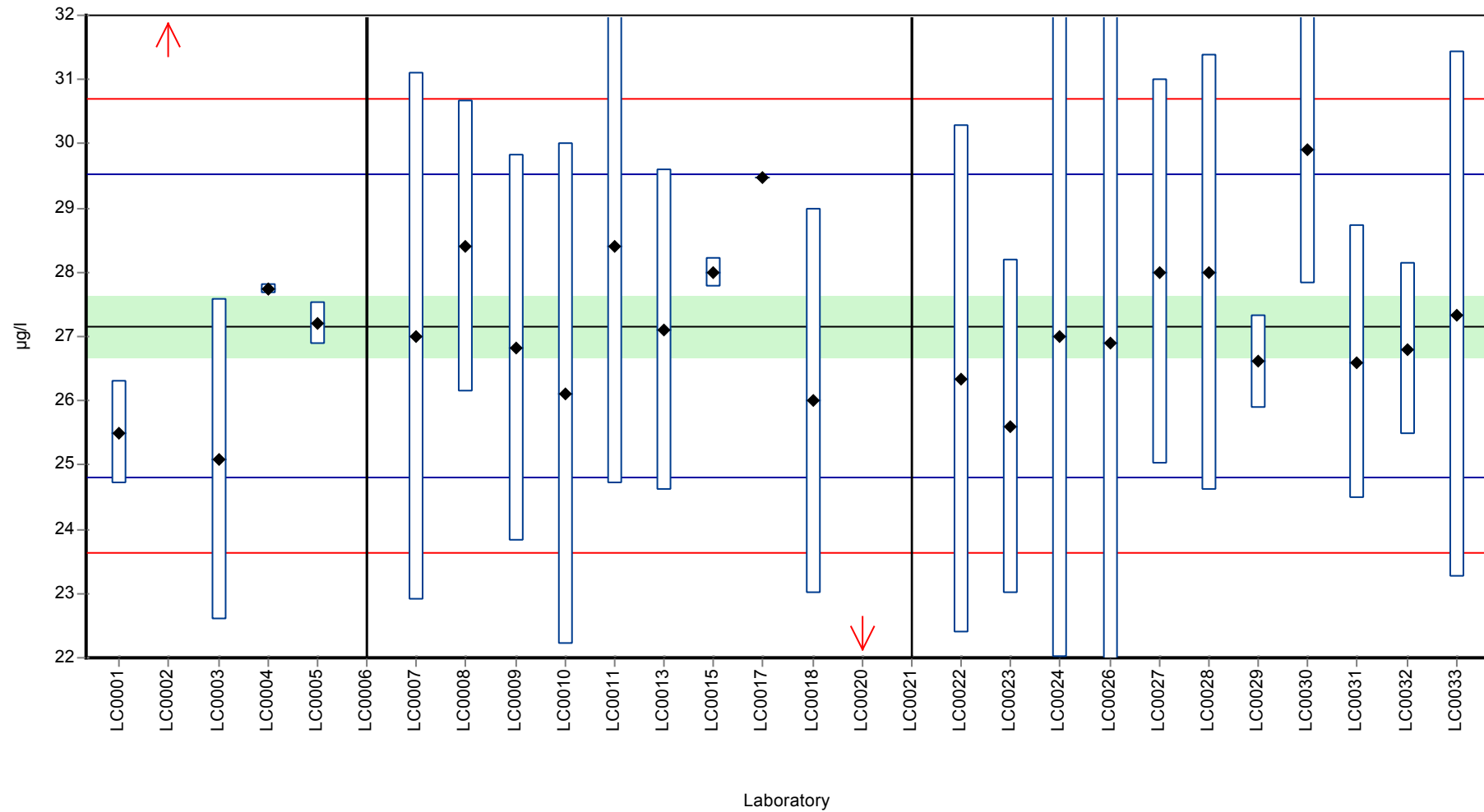
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	25,5	0,8	93,9	-1,41	
LC0002	32	-	118	4,1	H
LC0003	25,09	2,5	92,4	-1,76	
LC0004	27,75	0,0761	102	0,5	
LC0005	27,2	0,33	100	0,03	
LC0006	< 100 (LOQ)	-	-	-	
LC0007	27	4,1	99,4	-0,14	
LC0008	28,4	2,27	105	1,05	
LC0009	26,82	3,0038	98,7	-0,29	
LC0010	26,1	3,9	96,1	-0,9	
LC0011	28,4	3,7	105	1,05	
LC0012	-	-	-	-	
LC0013	27,1	2,5	99,8	-0,05	
LC0014	-	-	-	-	
LC0015	27,9942	0,2309	103	0,7	
LC0016	-	-	-	-	
LC0017	29,48	-	109	1,96	
LC0018	26	3	95,7	-0,99	
LC0019	-	-	-	-	
LC0020	10,8	1,6	39,8	-13,9	H
LC0021	< 150 (LOQ)	-	-	-	
LC0022	26,34	3,95	97	-0,7	
LC0023	25,6	2,6	94,2	-1,32	
LC0024	27	5	99,4	-0,14	
LC0025	-	-	-	-	
LC0026	26,9	6,7	99	-0,22	
LC0027	28	3	103	0,71	
LC0028	28	3,4	103	0,71	
LC0029	26,61	0,731	98	-0,47	
LC0030	29,9	2,09	110	2,32	
LC0031	26,6	2,13	97,9	-0,48	
LC0032	26,8	1,34	98,7	-0,31	
LC0033	27,34	4,1	101	0,15	

Characteristics of parameter

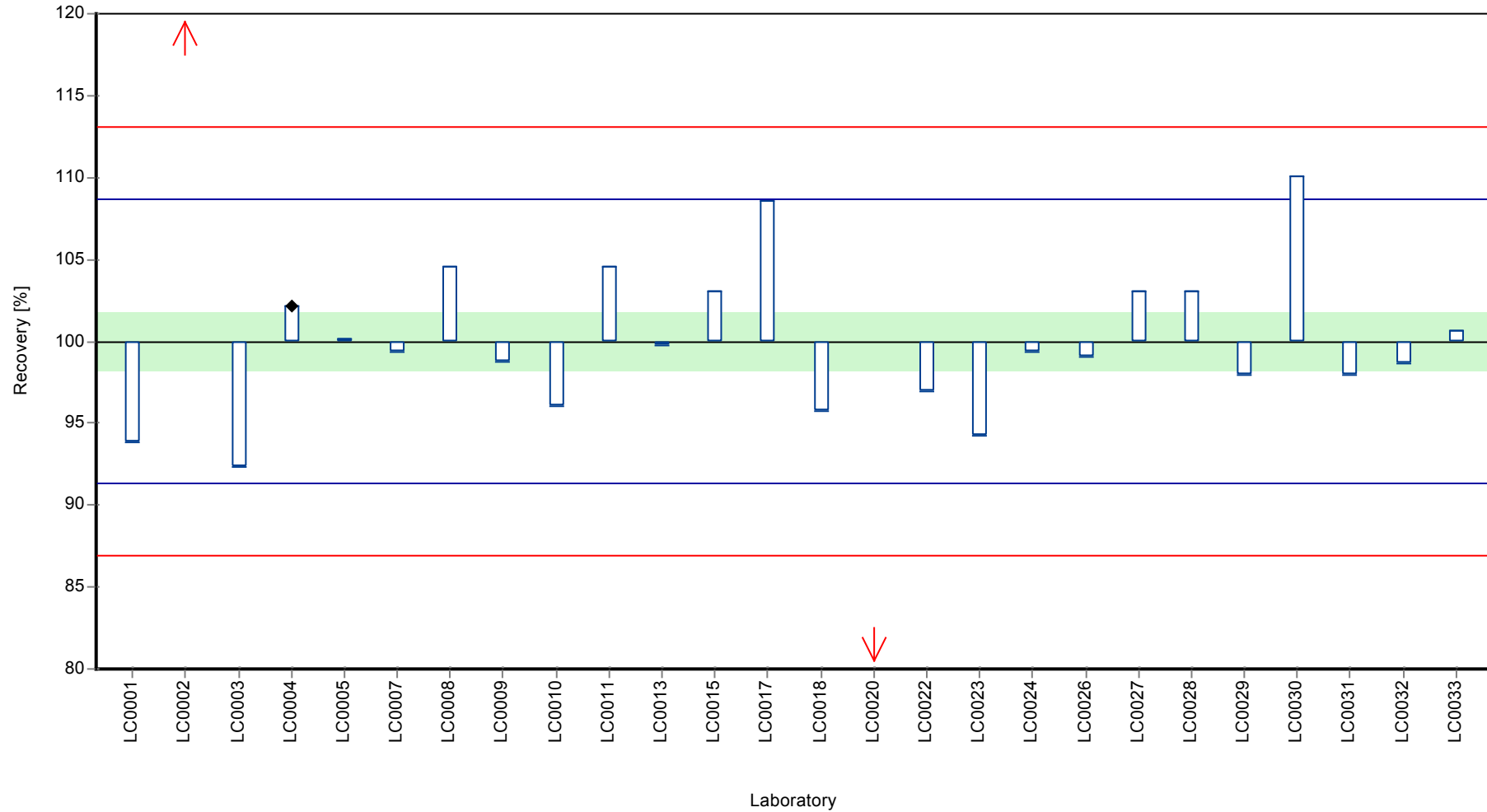
	all results	without outliers	Unit
Mean ± CI (99%)	26,7 ± 2,1	27,2 ± 0,723	µg/l
Minimum	10,8	25,1	µg/l
Maximum	32	29,9	µg/l
Standard deviation	3,57	1,18	µg/l
rel. Standard deviation	13,3	4,35	%
n	26	24	-

Graphical presentation of results

Results



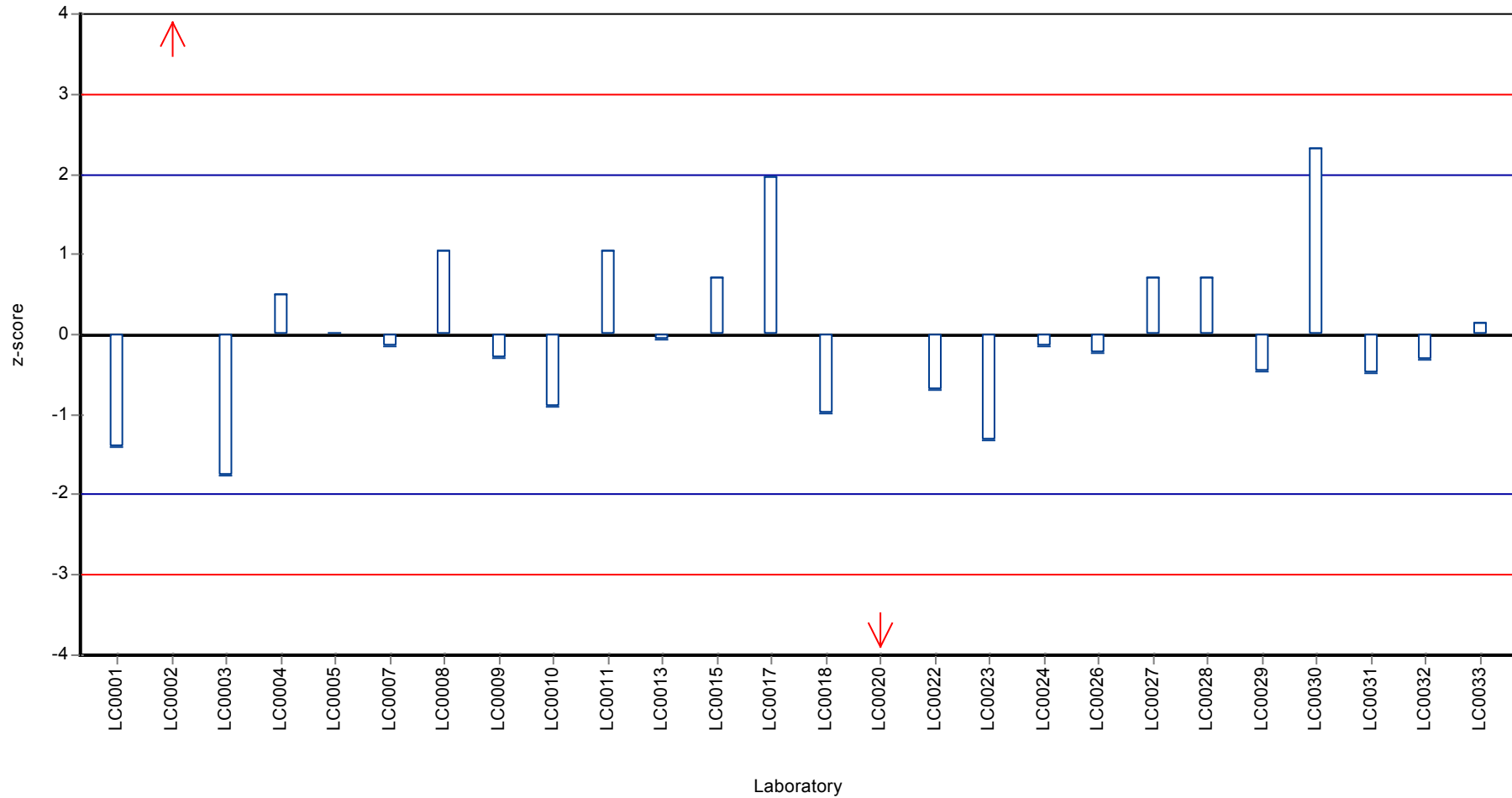
Recovery rate



Parameter oriented report Metalle M135

Sample: M135A, Parameter: Kupfer

Z-score



Parameter oriented report

M135 B

Kupfer

Unit	µg/l
Mean ± CI (99%)	4,74 ± 0,195
Minimum - Maximum	4,3 - 5,7
Control test value ± U	4,83 ± 0,215

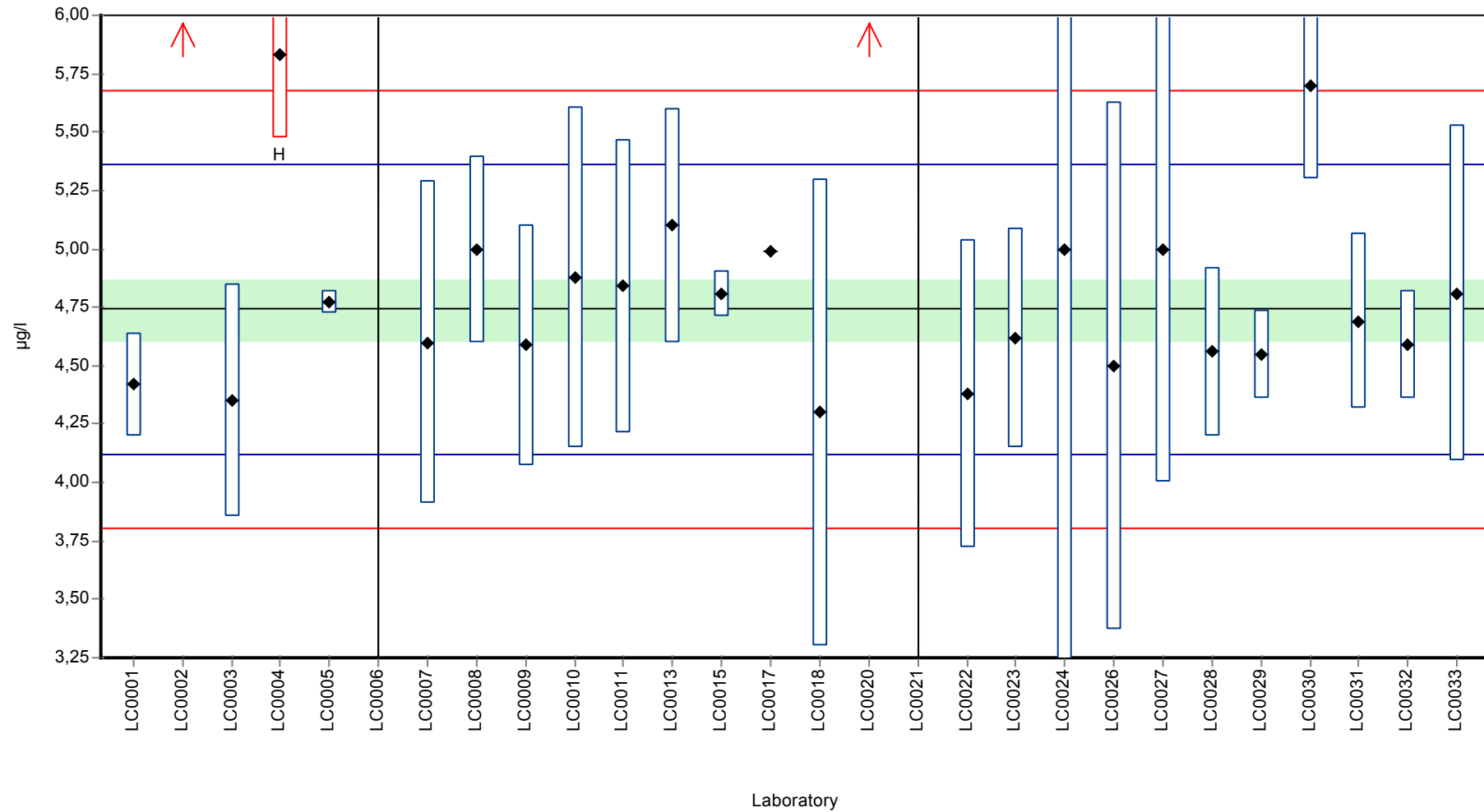
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	4,42	0,22	93,2	-1,03	
LC0002	10	-	211	16,9	H
LC0003	4,35	0,5	91,8	-1,25	
LC0004	5,83	0,3531	123	3,49	H
LC0005	4,77	0,05	101	0,09	
LC0006	< 100 (LOQ)	-	-	-	
LC0007	4,6	0,69	97	-0,45	
LC0008	5	0,4	105	0,83	
LC0009	4,588	0,514	96,8	-0,49	
LC0010	4,88	0,73	103	0,45	
LC0011	4,84	0,63	102	0,32	
LC0012	-	-	-	-	
LC0013	5,1	0,5	108	1,15	
LC0014	-	-	-	-	
LC0015	4,8056	0,0976	101	0,21	
LC0016	-	-	-	-	
LC0017	4,99	-	105	0,8	
LC0018	4,3	1	90,7	-1,41	
LC0019	-	-	-	-	
LC0020	6,2	0,9	131	4,68	H
LC0021	< 150 (LOQ)	-	-	-	
LC0022	4,38	0,66	92,4	-1,16	
LC0023	4,62	0,47	97,4	-0,39	
LC0024	5	2	105	0,83	
LC0025	-	-	-	-	
LC0026	4,5	1,13	94,9	-0,77	
LC0027	5	1	105	0,83	
LC0028	4,56	0,36	96,2	-0,58	
LC0029	4,55	0,19	96	-0,61	
LC0030	5,7	0,4	120	3,07	
LC0031	4,69	0,375	98,9	-0,16	
LC0032	4,59	0,23	96,8	-0,48	
LC0033	4,81	0,72	101	0,22	

Characteristics of parameter

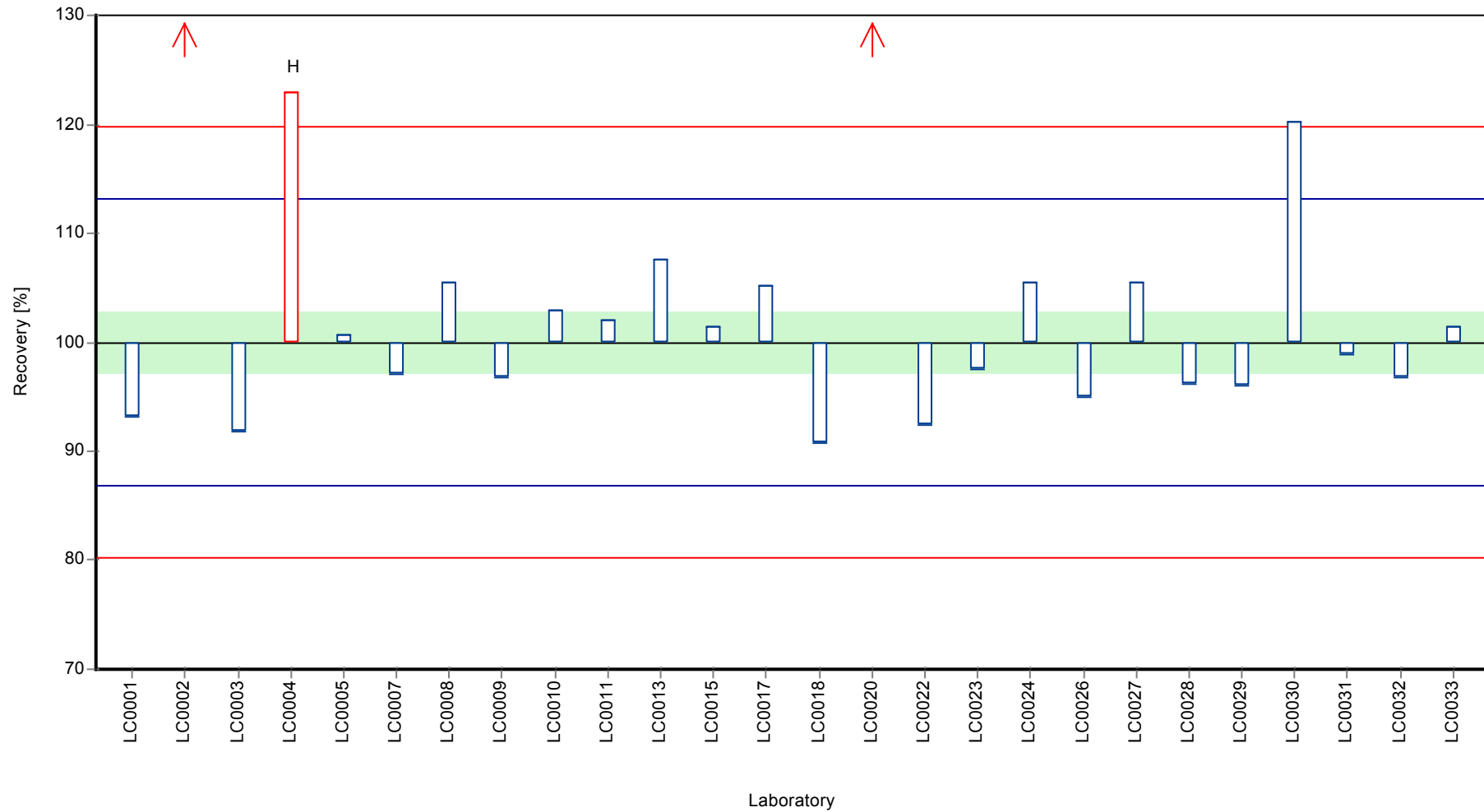
	all results	without outliers	Unit
Mean ± CI (99%)	5,04 ± 0,653	4,74 ± 0,195	µg/l
Minimum	4,3	4,3	µg/l
Maximum	10	5,7	µg/l
Standard deviation	1,11	0,312	µg/l
rel. Standard deviation	22	6,58	%
n	26	23	-

Graphical presentation of results

Results



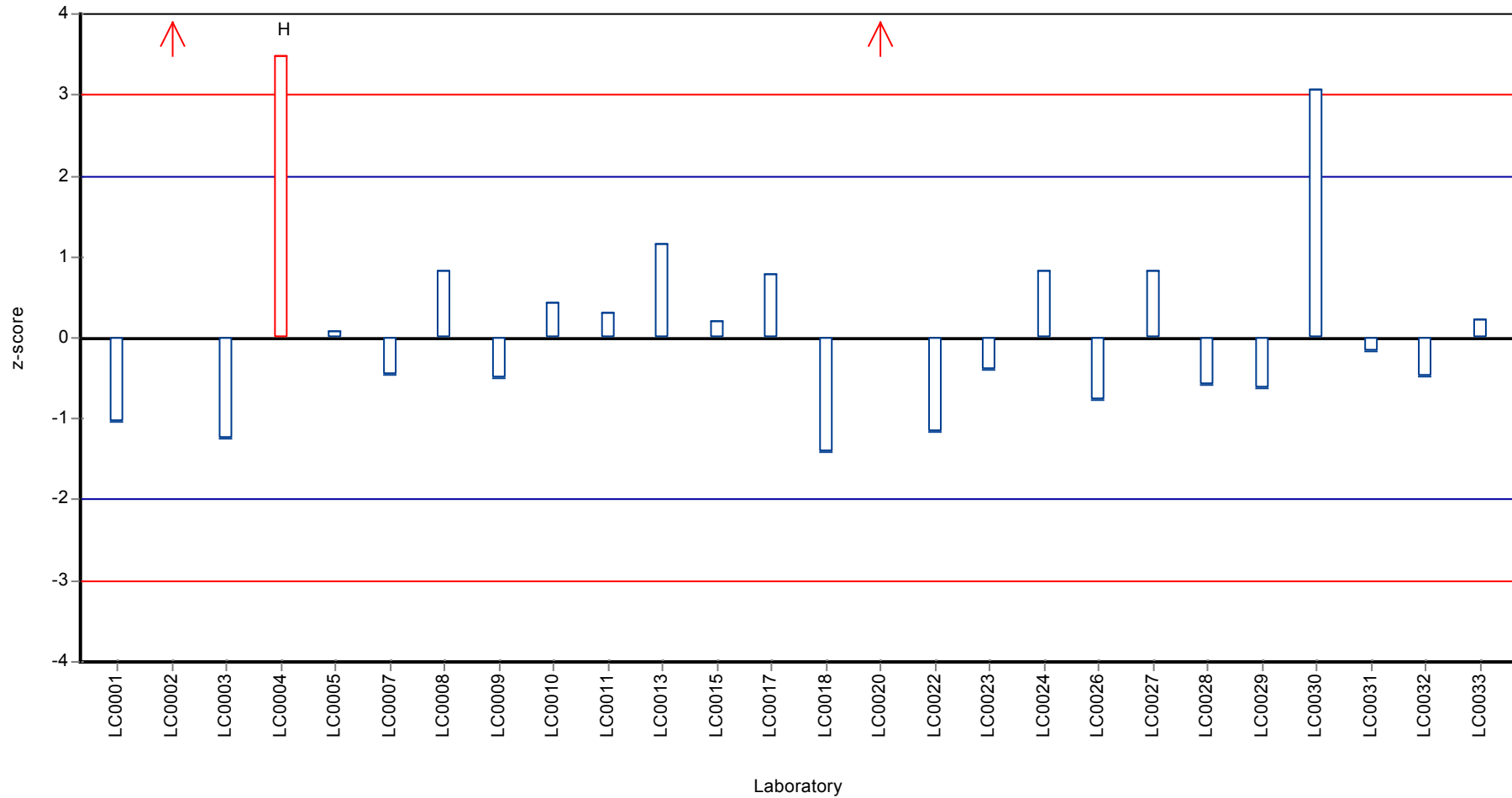
Recovery rate



Parameter oriented report Metalle M135

Sample: M135B, Parameter: Kupfer

Z-score



Parameter oriented report

M135 A

Eisen

Unit	µg/l
Mean ± CI (99%)	26,5 ± 0,924
Minimum - Maximum	23,9 - 29,8
Control test value ± U	25,2 ± 2,19

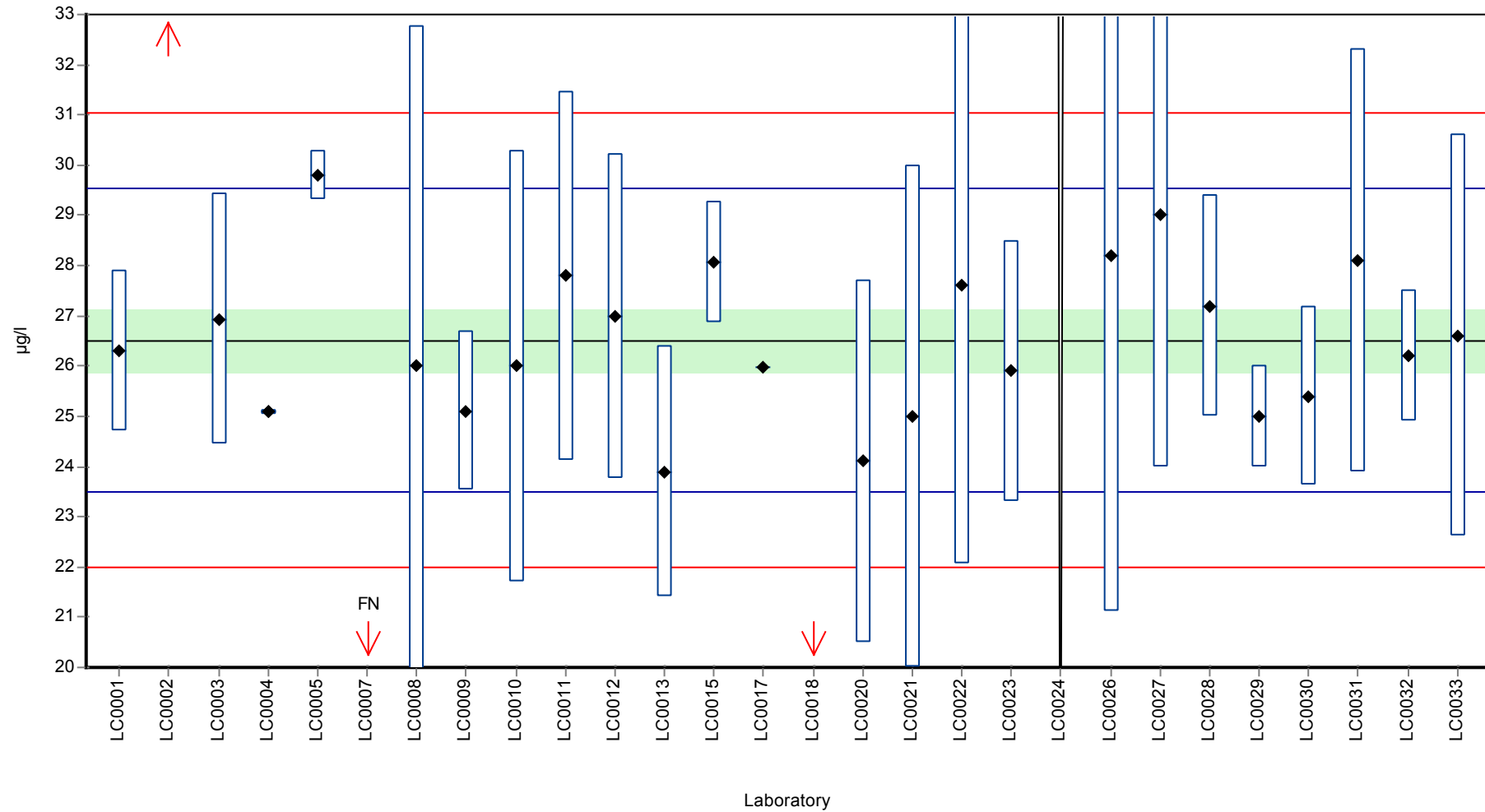
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	26,3	1,6	99,2	-0,14	
LC0002	35	-	132	5,63	H
LC0003	26,93	2,5	102	0,28	
LC0004	25,08	0,0411	94,6	-0,95	
LC0005	29,8	0,5	112	2,18	
LC0006	-	-	-	-	
LC0007	< 20 (LOQ)	-	-	-	FN
LC0008	26	6,76	98,1	-0,34	
LC0009	25,11	1,582	94,7	-0,93	
LC0010	26	4,3	98,1	-0,34	
LC0011	27,8	3,67	105	0,85	
LC0012	27	3,24	102	0,32	
LC0013	23,9	2,5	90,2	-1,73	
LC0014	-	-	-	-	
LC0015	28,0612	1,2106	106	1,03	
LC0016	-	-	-	-	
LC0017	25,97	-	98	-0,36	
LC0018	19	2	71,7	-4,98	H
LC0019	-	-	-	-	
LC0020	24,1	3,6	90,9	-1,6	
LC0021	25	5	94,3	-1	
LC0022	27,61	5,54	104	0,73	
LC0023	25,9	2,6	97,7	-0,41	
LC0024	< 50 (LOQ)	-	-	-	
LC0025	-	-	-	-	
LC0026	28,2	7,1	106	1,12	
LC0027	29	5	109	1,65	
LC0028	27,2	2,2	103	0,46	
LC0029	25	1	94,3	-1	
LC0030	25,4	1,78	95,8	-0,74	
LC0031	28,1	4,22	106	1,05	
LC0032	26,2	1,31	98,8	-0,21	
LC0033	26,6	4	100	0,06	

Characteristics of parameter

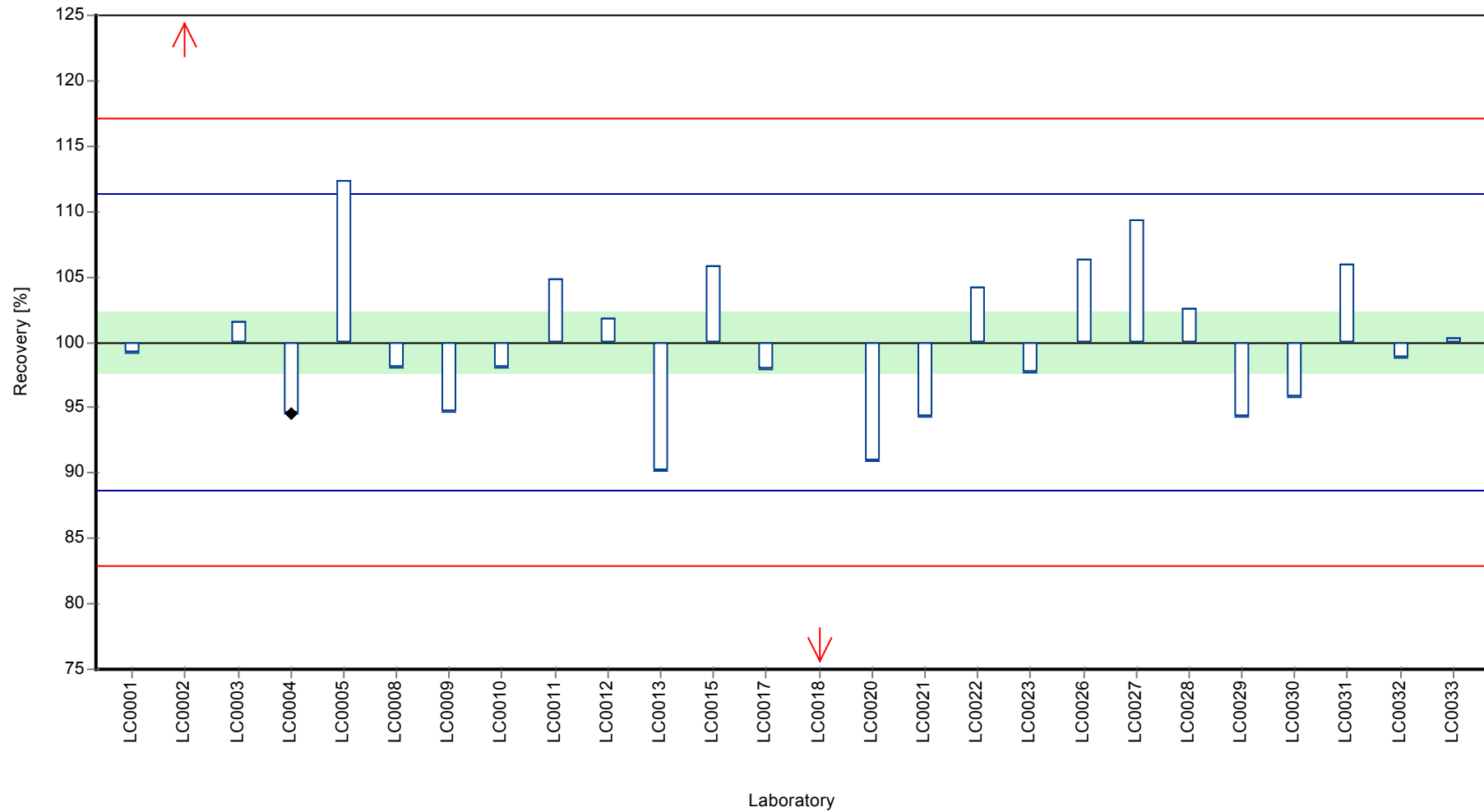
	all results	without outliers	Unit
Mean ± CI (99%)	26,5 ± 1,58	26,5 ± 0,924	µg/l
Minimum	19	23,9	µg/l
Maximum	35	29,8	µg/l
Standard deviation	2,69	1,51	µg/l
rel. Standard deviation	10,1	5,69	%
n	26	24	-

Graphical presentation of results

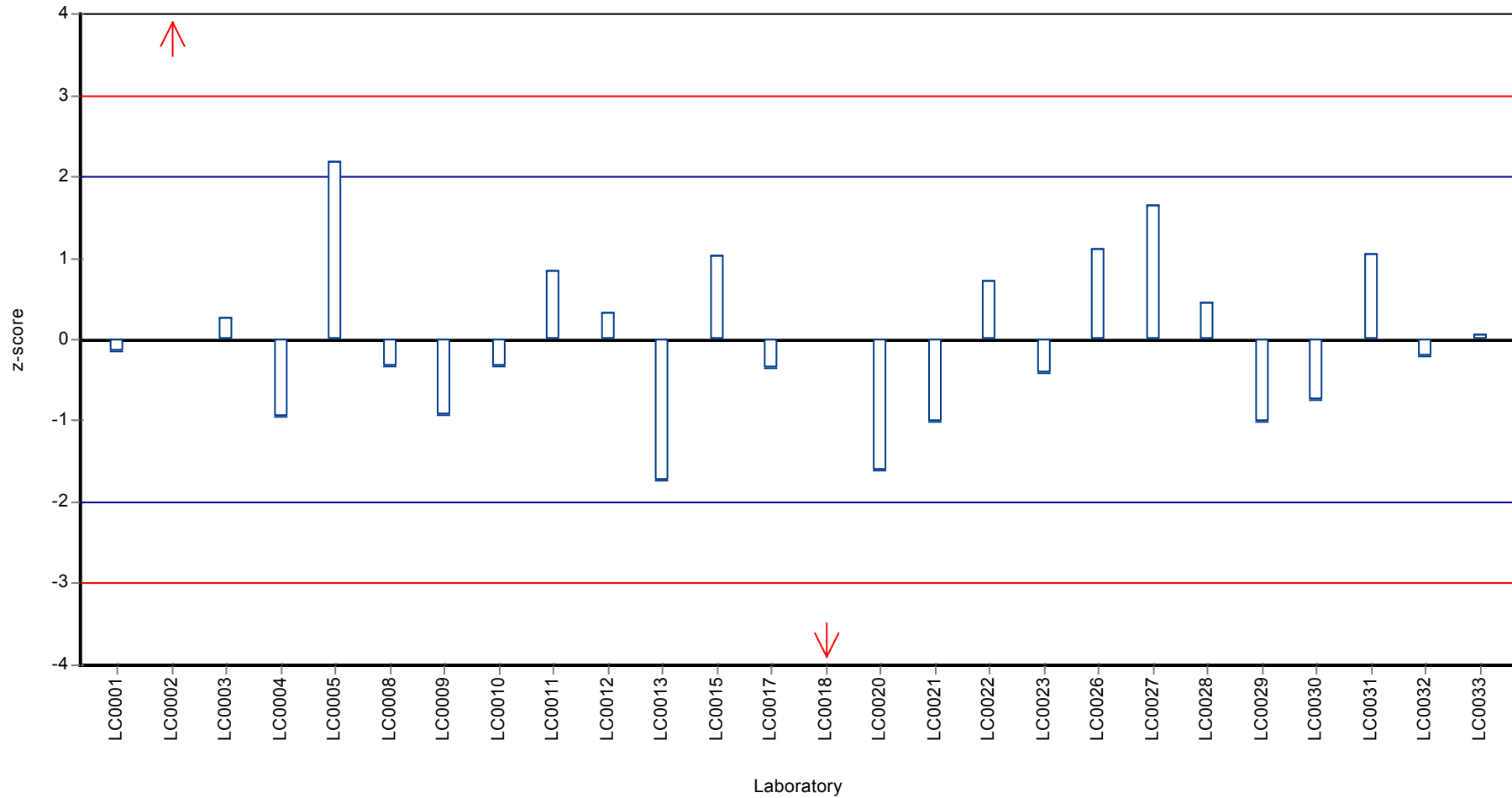
Results



Recovery rate



Z-score



Parameter oriented report

M135 B

Eisen

Unit	µg/l
Mean ± CI (99%)	18,9 ± 0,838
Minimum - Maximum	16,1 - 21
Control test value ± U	19,2 ± 1,61

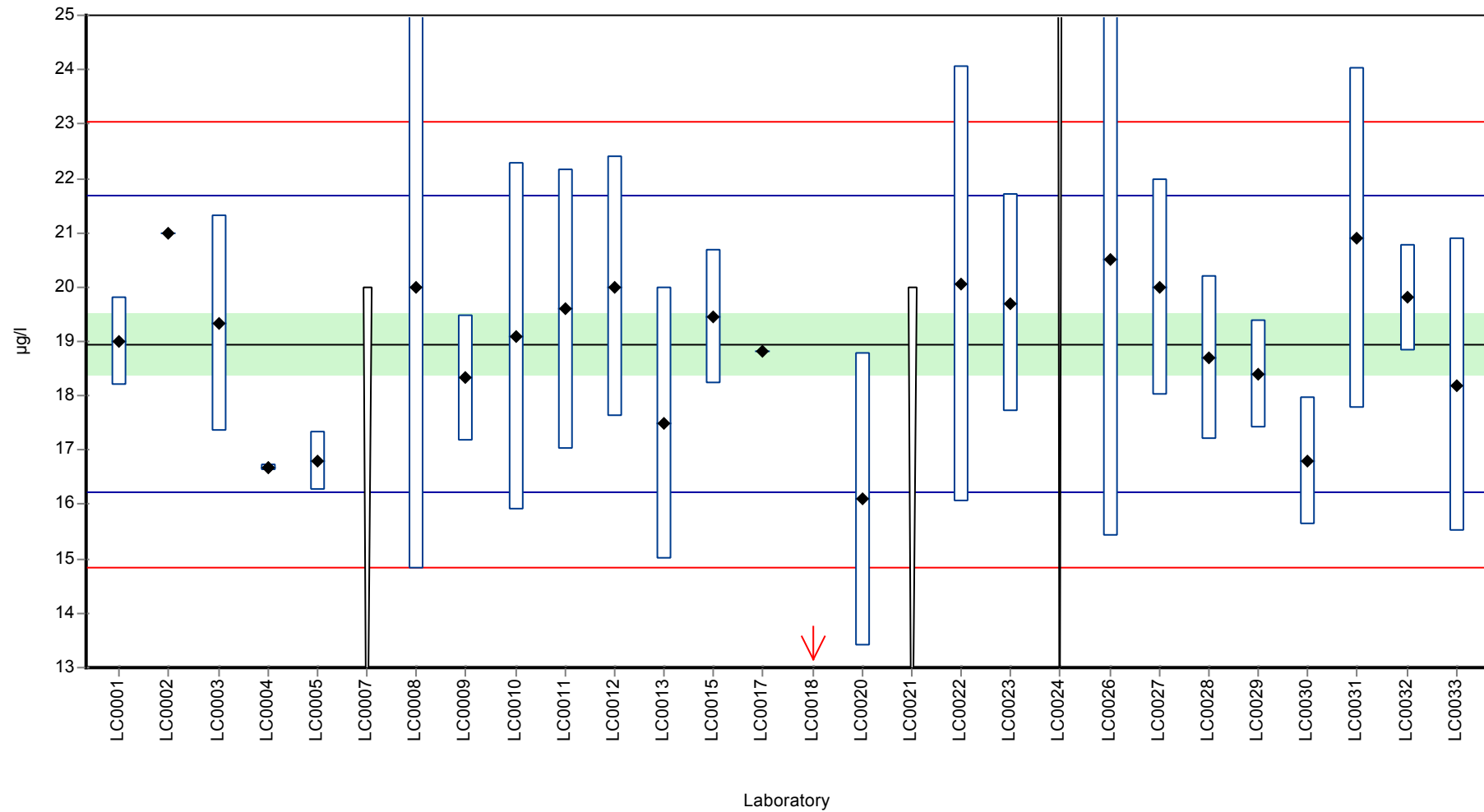
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	19	0,8	100	0,04	
LC0002	21	-	111	1,5	
LC0003	19,33	2	102	0,28	
LC0004	16,67	0,0591	88	-1,66	
LC0005	16,8	0,54	88,7	-1,57	
LC0006	-	-	-	-	
LC0007	< 20 (LOQ)	-	-	-	
LC0008	20	5,2	106	0,77	
LC0009	18,33	1,155	96,7	-0,45	
LC0010	19,1	3,2	101	0,11	
LC0011	19,6	2,58	103	0,48	
LC0012	20	2,4	106	0,77	
LC0013	17,5	2,5	92,4	-1,06	
LC0014	-	-	-	-	
LC0015	19,452	1,2388	103	0,37	
LC0016	-	-	-	-	
LC0017	18,82	-	99,3	-0,09	
LC0018	11	2	58,1	-5,81	H
LC0019	-	-	-	-	
LC0020	16,1	2,7	85	-2,08	
LC0021	< 20 (LOQ)	-	-	-	
LC0022	20,06	4,01	106	0,81	
LC0023	19,7	2	104	0,55	
LC0024	< 50 (LOQ)	-	-	-	
LC0025	-	-	-	-	
LC0026	20,5	5,1	108	1,13	
LC0027	20	2	106	0,77	
LC0028	18,7	1,5	98,7	-0,18	
LC0029	18,4	1	97,1	-0,4	
LC0030	16,8	1,18	88,7	-1,57	
LC0031	20,9	3,14	110	1,43	
LC0032	19,8	0,99	104	0,62	
LC0033	18,2	2,7	96,1	-0,55	

Characteristics of parameter

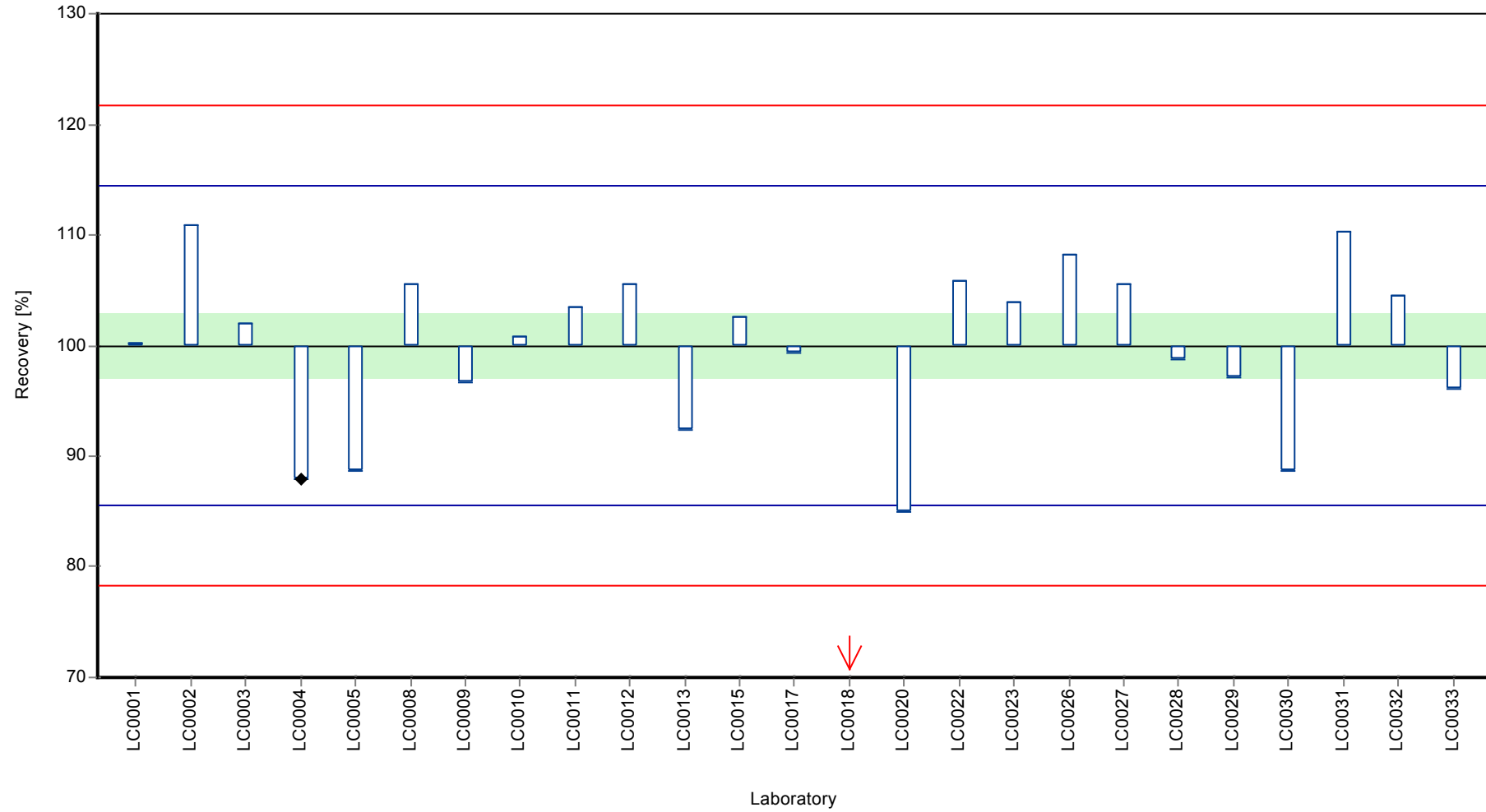
	all results	without outliers	Unit
Mean ± CI (99%)	18,6 ± 1,25	18,9 ± 0,838	µg/l
Minimum	11	16,1	µg/l
Maximum	21	21	µg/l
Standard deviation	2,08	1,37	µg/l
rel. Standard deviation	11,2	7,22	%
n	25	24	-

Graphical presentation of results

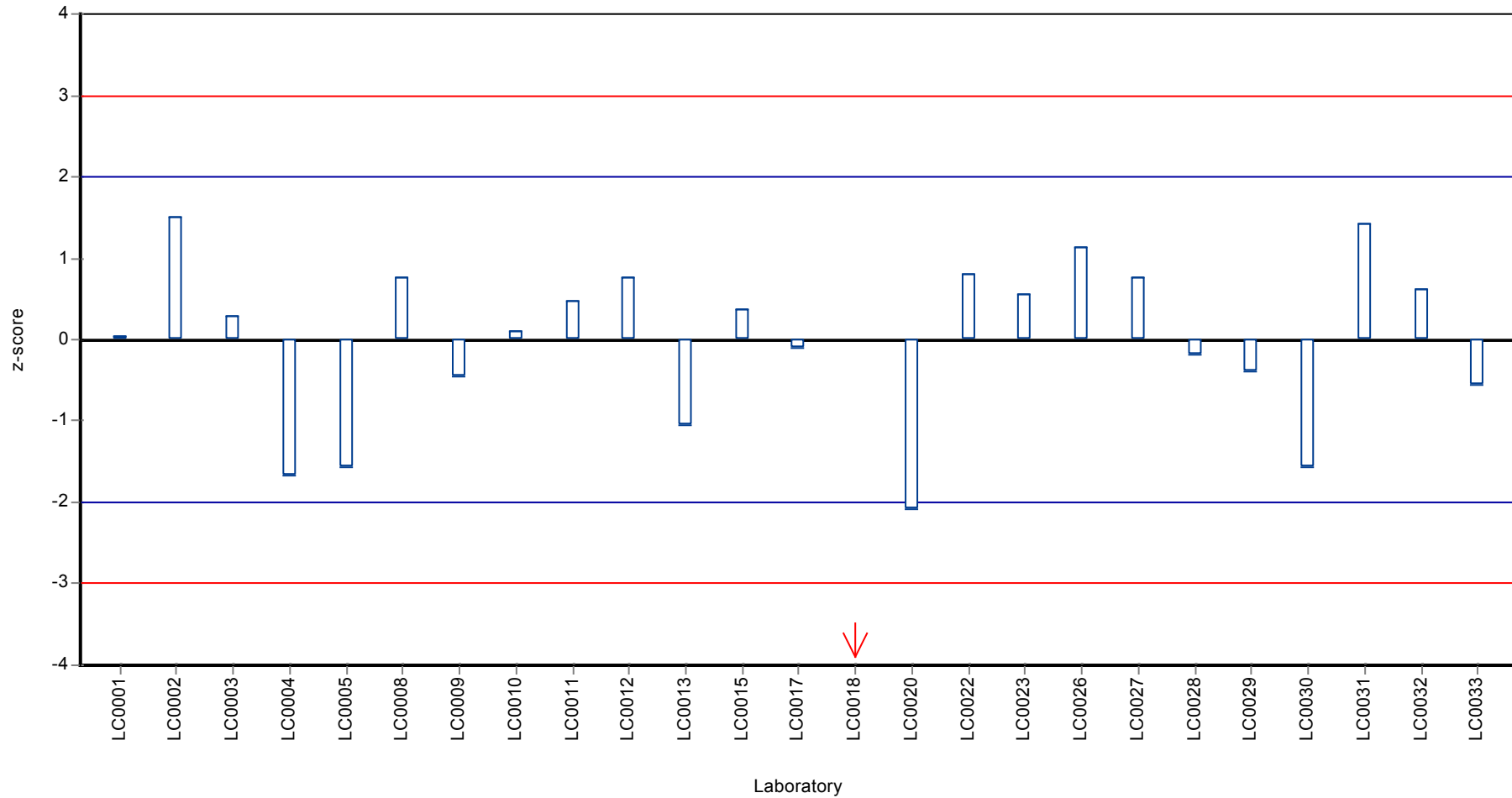
Results



Recovery rate



Z-score



Parameter oriented report

M135 A

Quecksilber

Unit	µg/l
Mean ± CI (99%)	-
Minimum - Maximum	0,0286 - 0,59
Control test value ± U	<0.025 (NG)

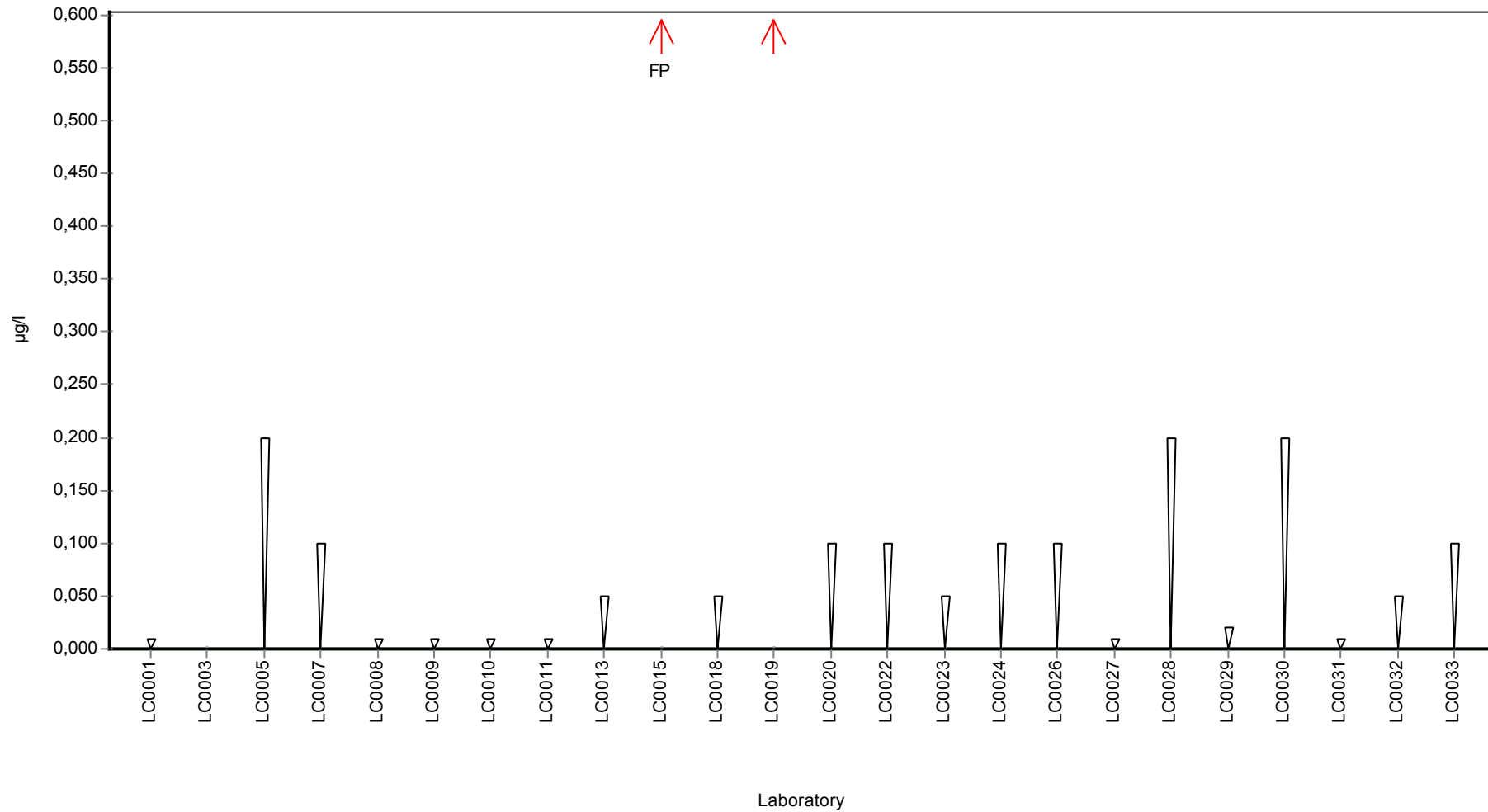
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	< 0,01 (LOQ)	-	-	-	
LC0002	-	-	-	-	
LC0003	<0,0005 (LOD)	-	-	-	
LC0004	-	-	-	-	
LC0005	< 0,2 (LOQ)	-	-	-	
LC0006	-	-	-	-	
LC0007	< 0,1 (LOQ)	-	-	-	
LC0008	<0,01 (LOD)	-	-	-	
LC0009	< 0,01 (LOQ)	-	-	-	
LC0010	< 0,01 (LOQ)	-	-	-	
LC0011	< 0,01 (LOQ)	-	-	-	
LC0012	-	-	-	-	
LC0013	< 0,05 (LOQ)	-	-	-	
LC0014	-	-	-	-	
LC0015	0,59	0,04	-	-	FP
LC0016	-	-	-	-	
LC0017	-	-	-	-	
LC0018	< 0,05 (LOQ)	-	-	-	
LC0019	0,0286	0,015	-	-	
LC0020	< 0,1 (LOQ)	-	-	-	
LC0021	-	-	-	-	
LC0022	< 0,1 (LOQ)	-	-	-	
LC0023	< 0,05 (LOQ)	-	-	-	
LC0024	< 0,1 (LOQ)	-	-	-	
LC0025	-	-	-	-	
LC0026	< 0,1 (LOQ)	-	-	-	
LC0027	< 0,01 (LOQ)	-	-	-	
LC0028	< 0,2 (LOQ)	-	-	-	
LC0029	< 0,02 (LOQ)	-	-	-	
LC0030	< 0,2 (LOQ)	-	-	-	
LC0031	< 0,01 (LOQ)	-	-	-	
LC0032	< 0,05 (LOQ)	-	-	-	
LC0033	< 0,1 (LOQ)	-	-	-	

Characteristics of parameter

	all results	without outliers	Unit
Mean ± CI (99%)	0,309 ± 0,842	-	µg/l
Minimum	0,0286	0,0286	µg/l
Maximum	0,59	0,59	µg/l
Standard deviation	0,397	-	µg/l
rel. Standard deviation	128	-	%
n	2	2	-

Graphical presentation of results

Results



Parameter oriented report

M135 B

Quecksilber

Unit	µg/l
Mean ± CI (99%)	-
Minimum - Maximum	0,0235 - 0,44
Control test value ± U	<0,025 (NG)

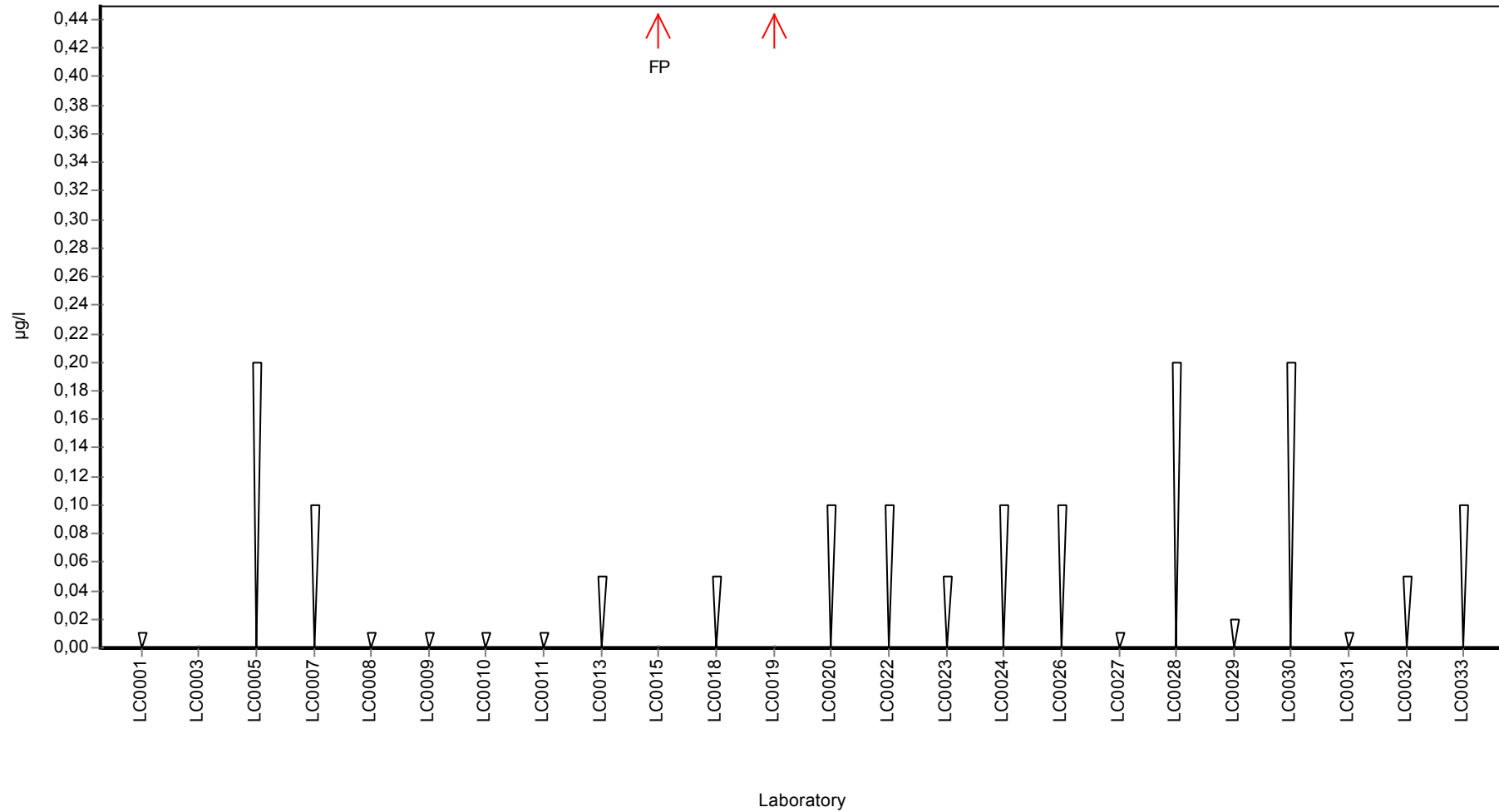
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	< 0,01 (LOQ)	-	-	-	
LC0002	-	-	-	-	
LC0003	<0,0005 (LOD)	-	-	-	
LC0004	-	-	-	-	
LC0005	< 0,2 (LOQ)	-	-	-	
LC0006	-	-	-	-	
LC0007	< 0,1 (LOQ)	-	-	-	
LC0008	<0,01 (LOD)	-	-	-	
LC0009	< 0,01 (LOQ)	-	-	-	
LC0010	< 0,01 (LOQ)	-	-	-	
LC0011	< 0,01 (LOQ)	-	-	-	
LC0012	-	-	-	-	
LC0013	< 0,05 (LOQ)	-	-	-	
LC0014	-	-	-	-	
LC0015	0,44	0,04	-	-	FP
LC0016	-	-	-	-	
LC0017	-	-	-	-	
LC0018	< 0,05 (LOQ)	-	-	-	
LC0019	0,0235	0,015	-	-	
LC0020	< 0,1 (LOQ)	-	-	-	
LC0021	-	-	-	-	
LC0022	< 0,1 (LOQ)	-	-	-	
LC0023	< 0,05 (LOQ)	-	-	-	
LC0024	< 0,1 (LOQ)	-	-	-	
LC0025	-	-	-	-	
LC0026	< 0,1 (LOQ)	-	-	-	
LC0027	< 0,01 (LOQ)	-	-	-	
LC0028	< 0,2 (LOQ)	-	-	-	
LC0029	< 0,02 (LOQ)	-	-	-	
LC0030	< 0,2 (LOQ)	-	-	-	
LC0031	< 0,01 (LOQ)	-	-	-	
LC0032	< 0,05 (LOQ)	-	-	-	
LC0033	< 0,1 (LOQ)	-	-	-	

Characteristics of parameter

	all results	without outliers	Unit
Mean ± CI (99%)	0,232 ± 0,625	-	µg/l
Minimum	0,0235	0,0235	µg/l
Maximum	0,44	0,44	µg/l
Standard deviation	0,295	-	µg/l
rel. Standard deviation	127	-	%
n	2	2	-

Graphical presentation of results

Results



Parameter oriented report

M135 A

Mangan

Unit	µg/l
Mean ± CI (99%)	5,6 ± 0,176
Minimum - Maximum	5 - 6
Control test value ± U	5,45 ± 0,376

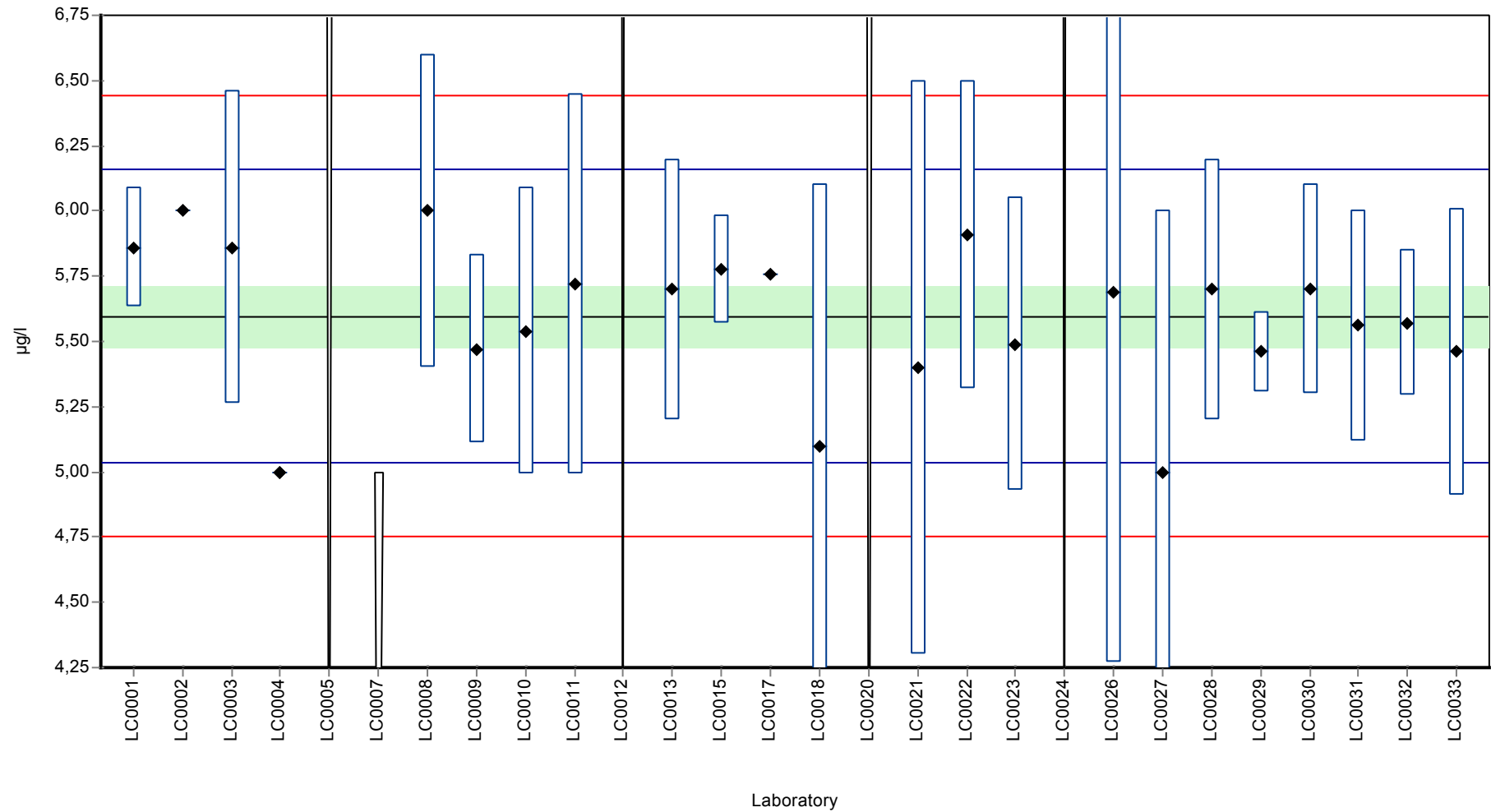
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	5,86	0,23	105	0,94	
LC0002	6	-	107	1,43	
LC0003	5,86	0,6	105	0,94	
LC0004	5	-	89,3	-2,12	
LC0005	< 10 (LOQ)	-	-	-	
LC0006	-	-	-	-	
LC0007	< 5 (LOQ)	-	-	-	
LC0008	6	0,6	107	1,43	
LC0009	5,471	0,361	97,8	-0,45	
LC0010	5,54	0,55	99	-0,2	
LC0011	5,72	0,73	102	0,44	
LC0012	< 20 (LOQ)	-	-	-	
LC0013	5,7	0,5	102	0,37	
LC0014	-	-	-	-	
LC0015	5,7743	0,2078	103	0,63	
LC0016	-	-	-	-	
LC0017	5,76	-	103	0,58	
LC0018	5,1	1	91,1	-1,76	
LC0019	-	-	-	-	
LC0020	< 10 (LOQ)	-	-	-	
LC0021	5,4	1,1	96,5	-0,7	
LC0022	5,91	0,59	106	1,11	
LC0023	5,49	0,56	98,1	-0,38	
LC0024	< 20 (LOQ)	-	-	-	
LC0025	-	-	-	-	
LC0026	5,69	1,42	102	0,33	
LC0027	5	1	89,3	-2,12	
LC0028	5,7	0,5	102	0,37	
LC0029	5,46	0,152	97,6	-0,49	
LC0030	5,7	0,4	102	0,37	
LC0031	5,56	0,445	99,3	-0,13	
LC0032	5,57	0,28	99,5	-0,1	
LC0033	5,46	0,55	97,6	-0,49	

Characteristics of parameter

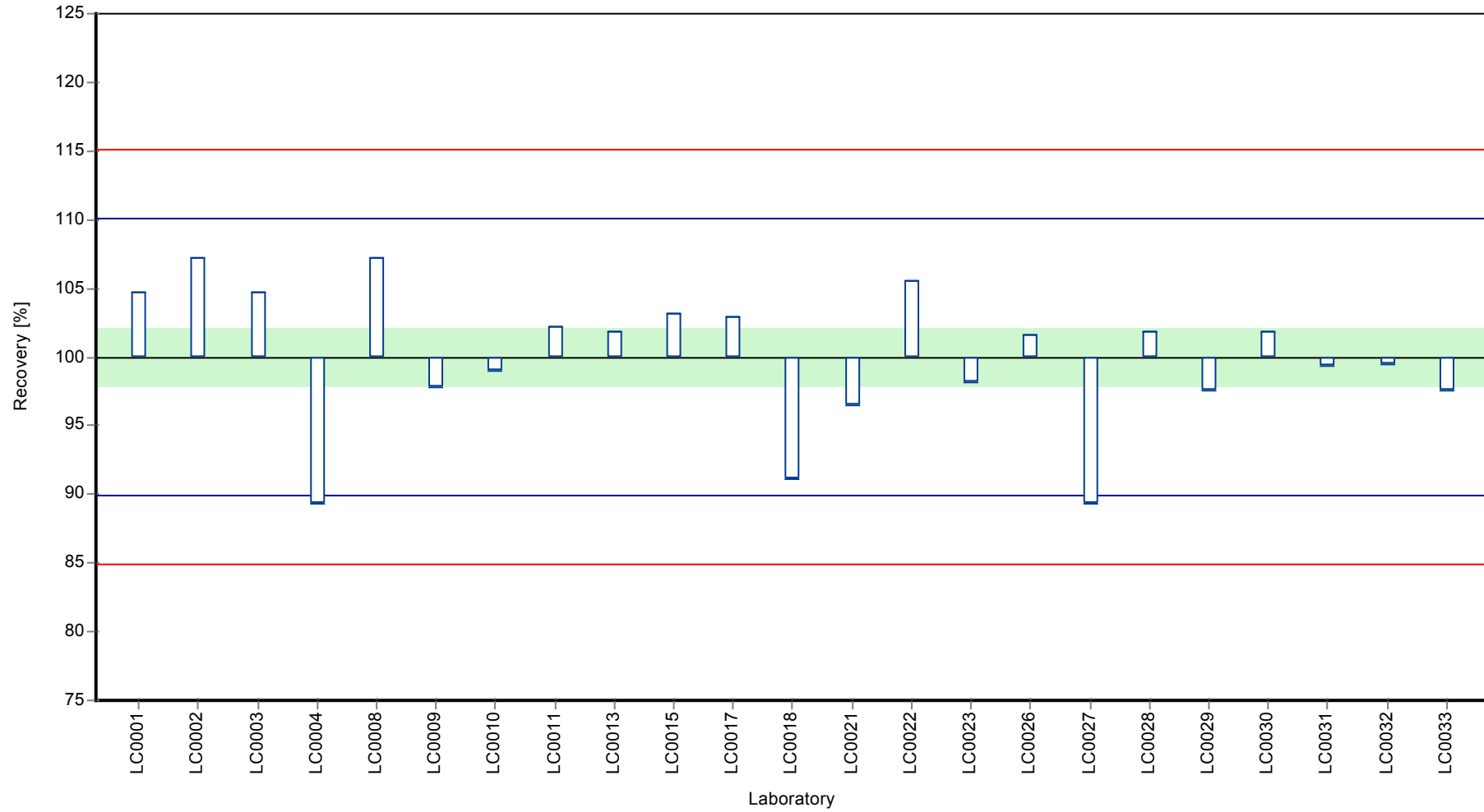
	all results	without outliers	Unit
Mean ± CI (99%)	5,6 ± 0,176	5,6 ± 0,176	µg/l
Minimum	5	5	µg/l
Maximum	6	6	µg/l
Standard deviation	0,282	0,282	µg/l
rel. Standard deviation	5,03	5,03	%
n	23	23	-

Graphical presentation of results

Results



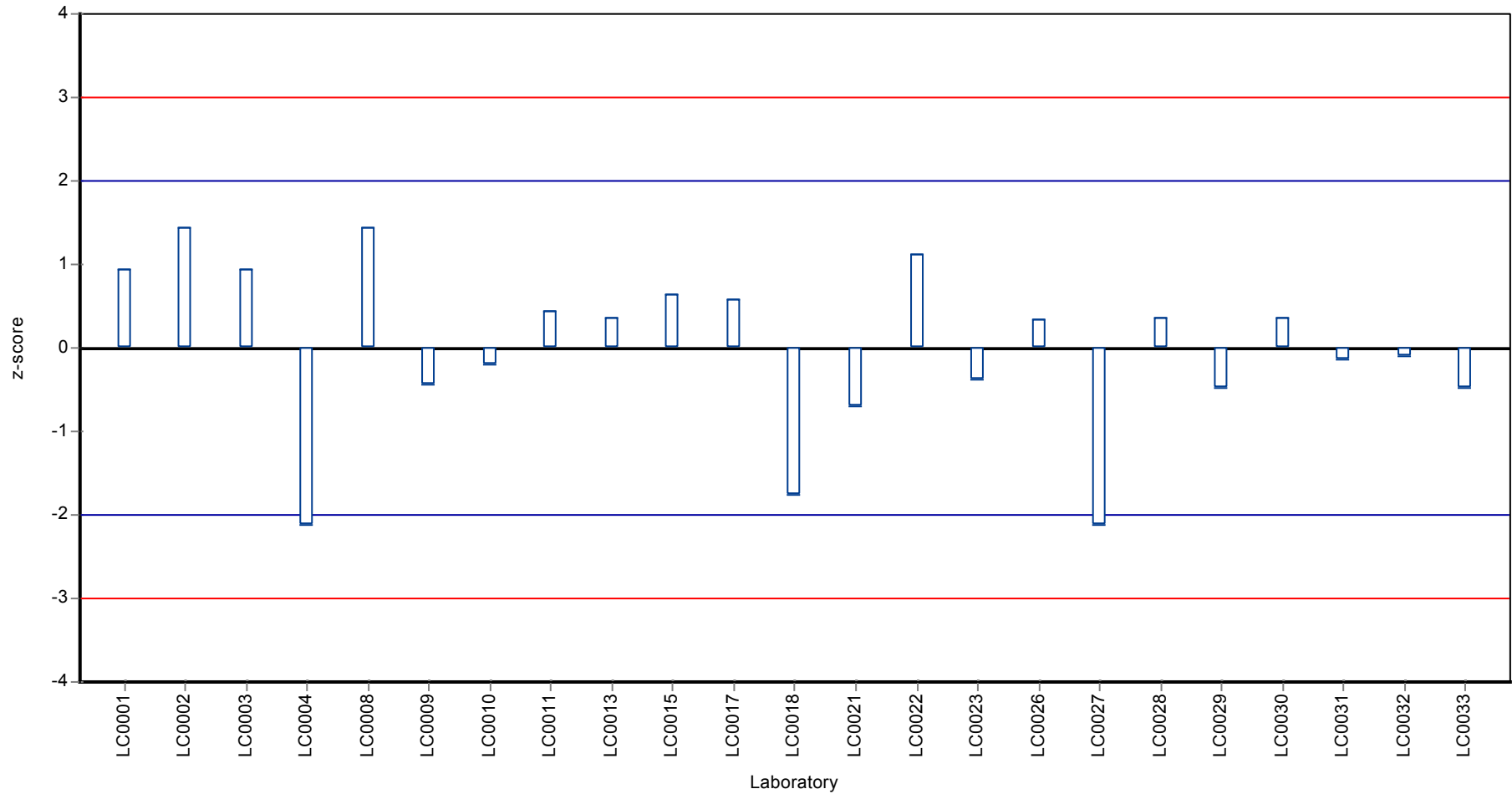
Recovery rate



Parameter oriented report Metalle M135

Sample: M135A, Parameter: Mangan

Z-score



Parameter oriented report

M135 B

Mangan

Unit	µg/l
Mean ± CI (99%)	98,5 ± 3,07
Minimum - Maximum	86,9 - 109
Control test value ± U	94,0 ± 2,64

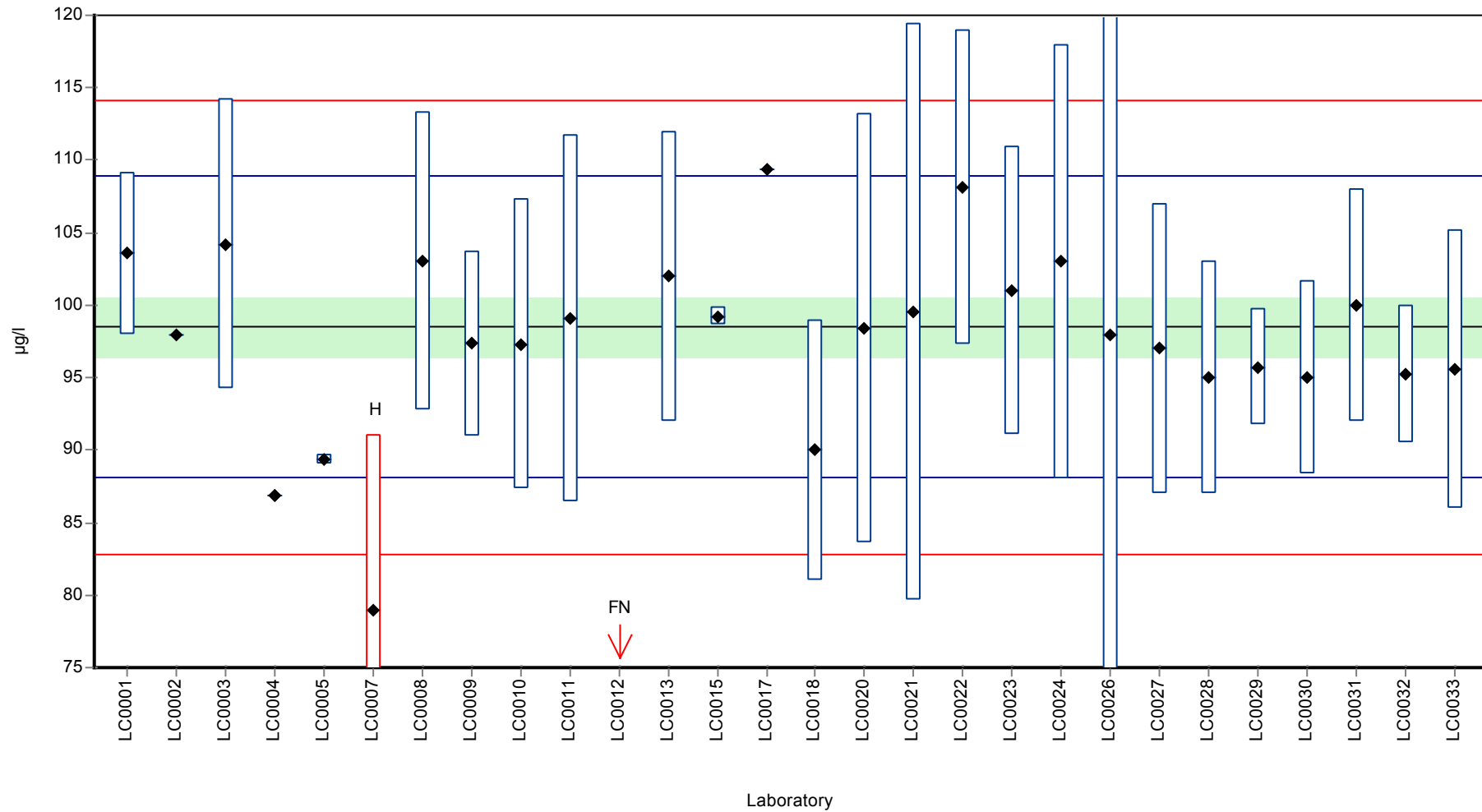
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	103,6	5,6	105	0,98	
LC0002	98	-	99,5	-0,1	
LC0003	104,22	10	106	1,1	
LC0004	86,92	0,0601	88,2	-2,22	
LC0005	89,4	0,35	90,8	-1,74	
LC0006	-	-	-	-	
LC0007	79	12	80,2	-3,74	H
LC0008	103	10,3	105	0,86	
LC0009	97,35	6,425	98,8	-0,22	
LC0010	97,3	10	98,8	-0,23	
LC0011	99,1	12,7	101	0,12	
LC0012	< 20 (LOQ)	-	-	-	FN
LC0013	102	10	104	0,67	
LC0014	-	-	-	-	
LC0015	99,2235	0,617	101	0,14	
LC0016	-	-	-	-	
LC0017	109,42	-	111	2,09	
LC0018	90	9	91,4	-1,63	
LC0019	-	-	-	-	
LC0020	98,4	14,8	99,9	-0,02	
LC0021	99,5	19,9	101	0,19	
LC0022	108,13	10,81	110	1,85	
LC0023	101	10	103	0,48	
LC0024	103	15	105	0,86	
LC0025	-	-	-	-	
LC0026	97,9	24,5	99,4	-0,12	
LC0027	97	10	98,5	-0,29	
LC0028	95	8	96,4	-0,67	
LC0029	95,7	4,02	97,2	-0,54	
LC0030	95	6,65	96,4	-0,67	
LC0031	100	8	102	0,29	
LC0032	95,2	4,76	96,7	-0,63	
LC0033	95,6	9,6	97,1	-0,56	

Characteristics of parameter

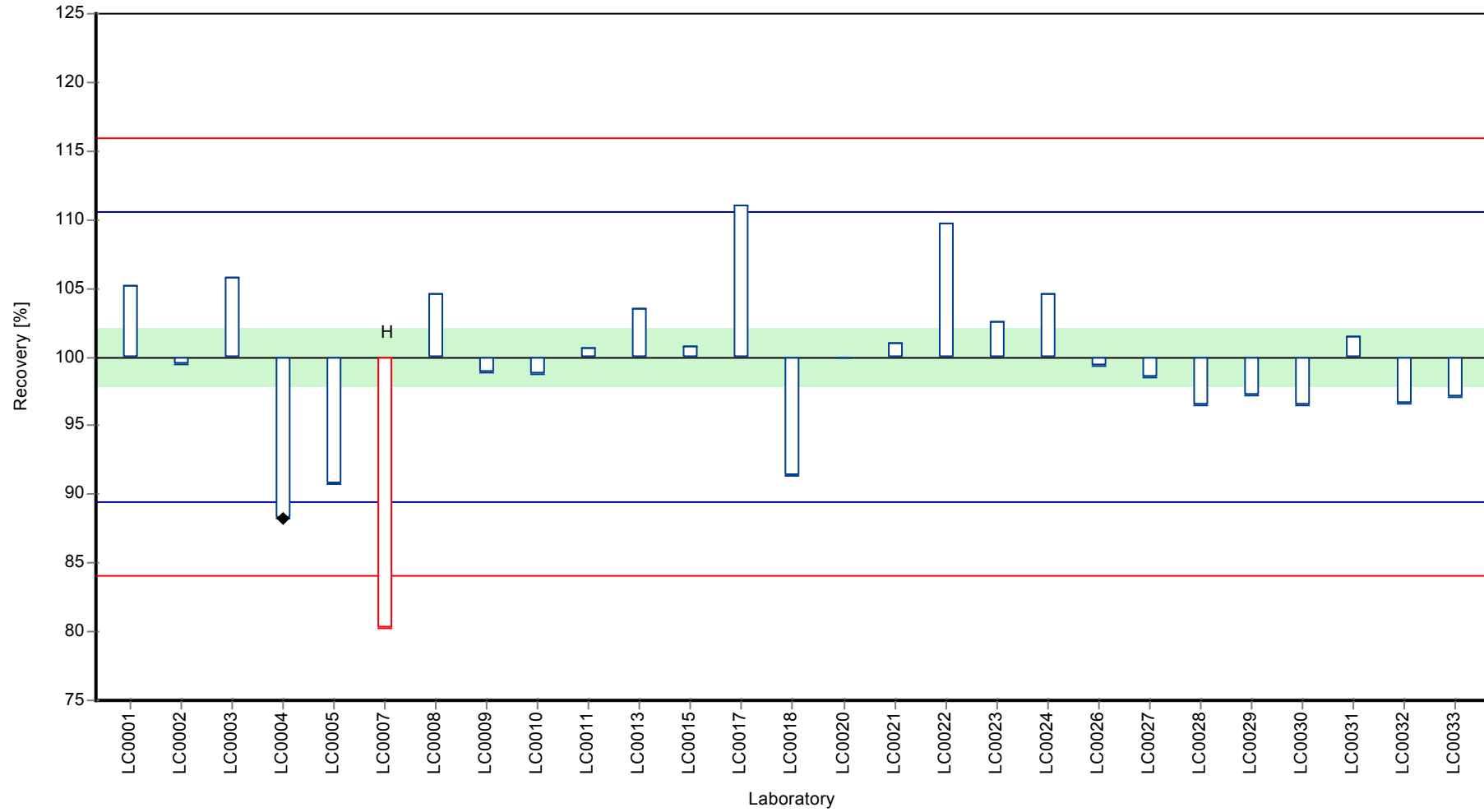
	all results	without outliers	Unit
Mean ± CI (99%)	97,8 ± 3,66	98,5 ± 3,07	µg/l
Minimum	79	86,9	µg/l
Maximum	109	109	µg/l
Standard deviation	6,34	5,22	µg/l
rel. Standard deviation	6,49	5,3	%
n	27	26	-

Graphical presentation of results

Results



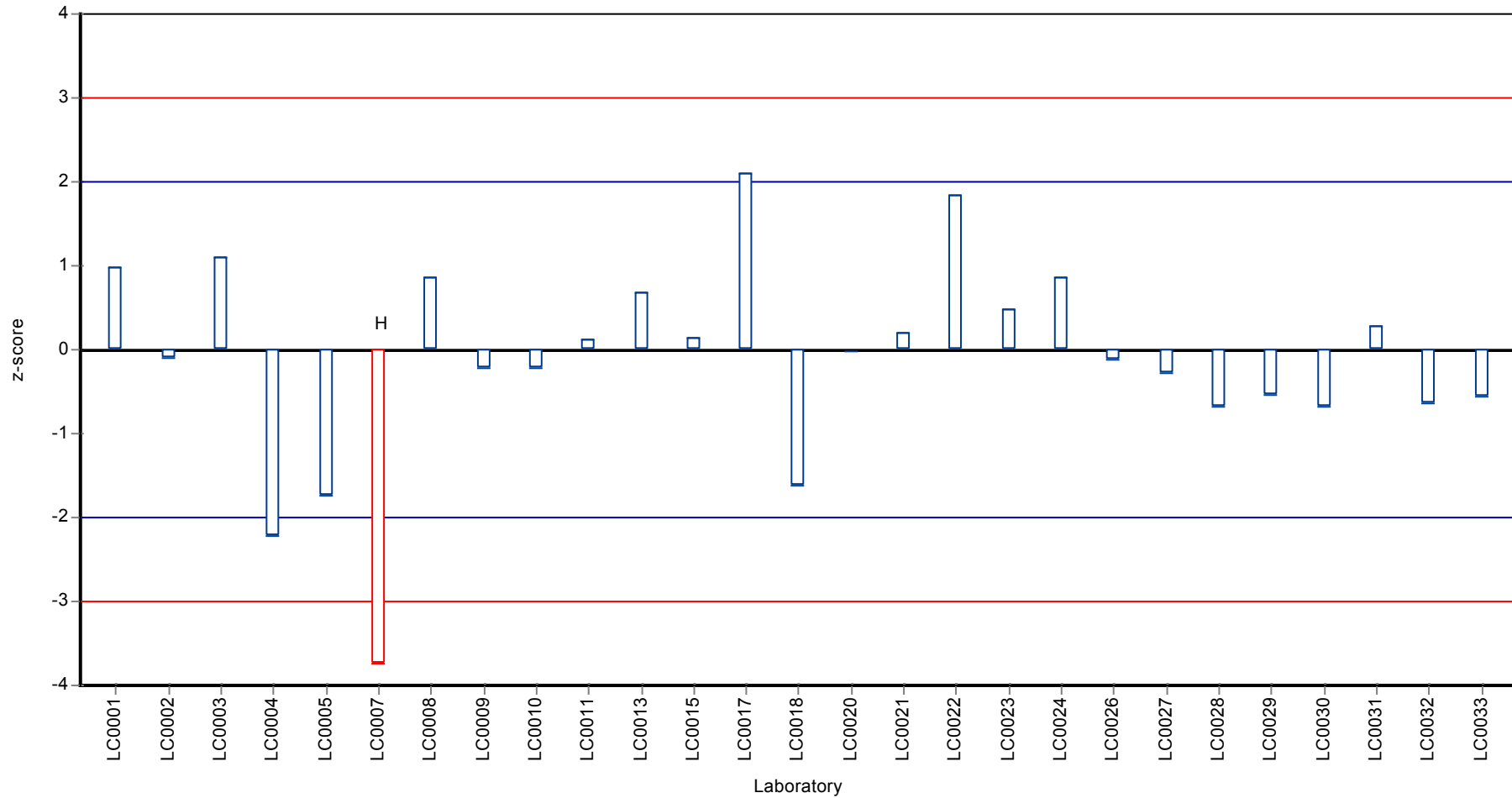
Recovery rate



Parameter oriented report Metalle M135

Sample: M135B, Parameter: Mangan

Z-score



Parameter oriented report

M135 A

Nickel

Unit	µg/l
Mean ± CI (99%)	0,685 ± 0,0222
Minimum - Maximum	0,65 - 0,72
Control test value ± U	0,676 ± 0,0768

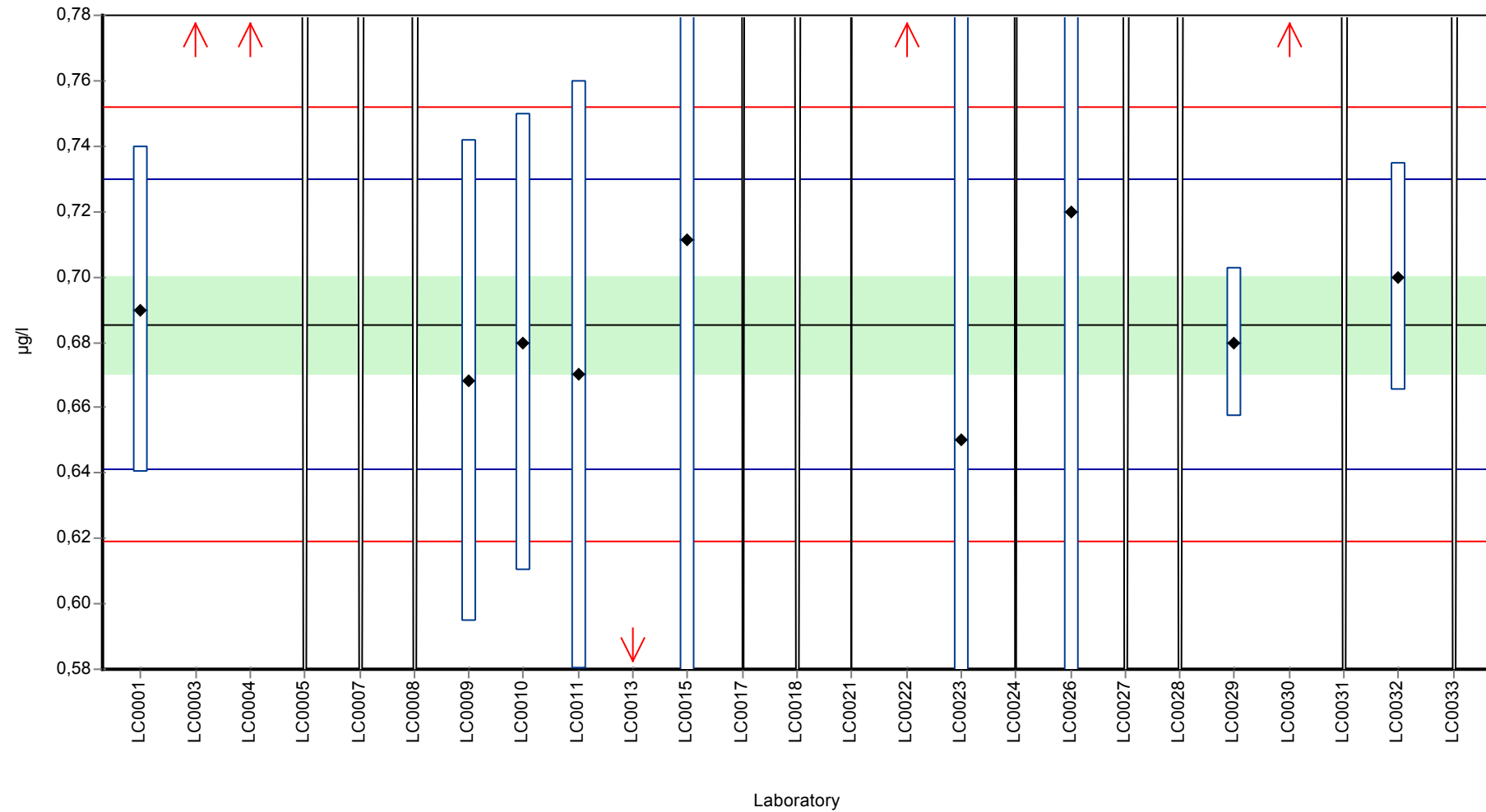
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0,69	0,05	101	0,2	
LC0002	-	-	-	-	
LC0003	0,86	0,2	125	7,86	H
LC0004	1	-	146	14,2	H
LC0005	< 1 (LOQ)	-	-	-	
LC0006	-	-	-	-	
LC0007	< 1 (LOQ)	-	-	-	
LC0008	< 1 (LOQ)	-	-	-	
LC0009	0,6682	0,0735	97,5	-0,78	
LC0010	0,68	0,07	99,2	-0,25	
LC0011	0,67	0,09	97,7	-0,7	
LC0012	-	-	-	-	
LC0013	0,37	0,05	54	-14,2	H
LC0014	-	-	-	-	
LC0015	0,7113	0,1414	104	1,16	
LC0016	-	-	-	-	
LC0017	< 2 (LOQ)	-	-	-	
LC0018	< 1 (LOQ)	-	-	-	
LC0019	-	-	-	-	
LC0020	-	-	-	-	
LC0021	< 5 (LOQ)	-	-	-	
LC0022	1,35	0,2	197	29,9	H
LC0023	0,65	0,13	94,8	-1,6	
LC0024	< 2 (LOQ)	-	-	-	
LC0025	-	-	-	-	
LC0026	0,72	0,18	105	1,55	
LC0027	< 1 (LOQ)	-	-	-	
LC0028	< 1 (LOQ)	-	-	-	
LC0029	0,68	0,023	99,2	-0,25	
LC0030	2,1	0,15	306	63,7	H
LC0031	< 1 (LOQ)	-	-	-	
LC0032	0,7	0,035	102	0,65	
LC0033	< 1 (LOQ)	-	-	-	

Characteristics of parameter

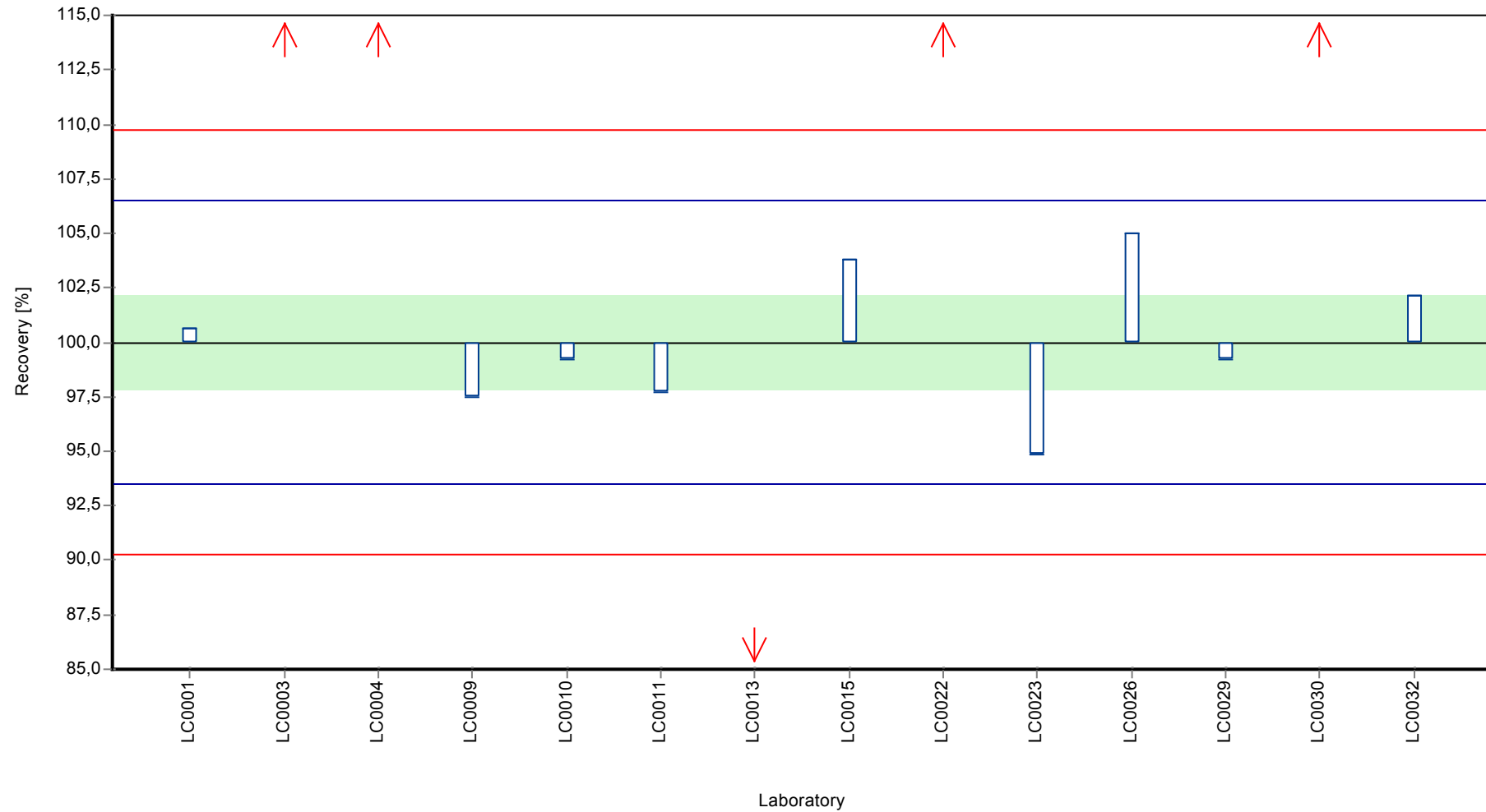
	all results	without outliers	Unit
Mean ± CI (99%)	0,846 ± 0,338	0,685 ± 0,0222	µg/l
Minimum	0,37	0,65	µg/l
Maximum	2,1	0,72	µg/l
Standard deviation	0,422	0,0222	µg/l
rel. Standard deviation	49,8	3,24	%
n	14	9	-

Graphical presentation of results

Results



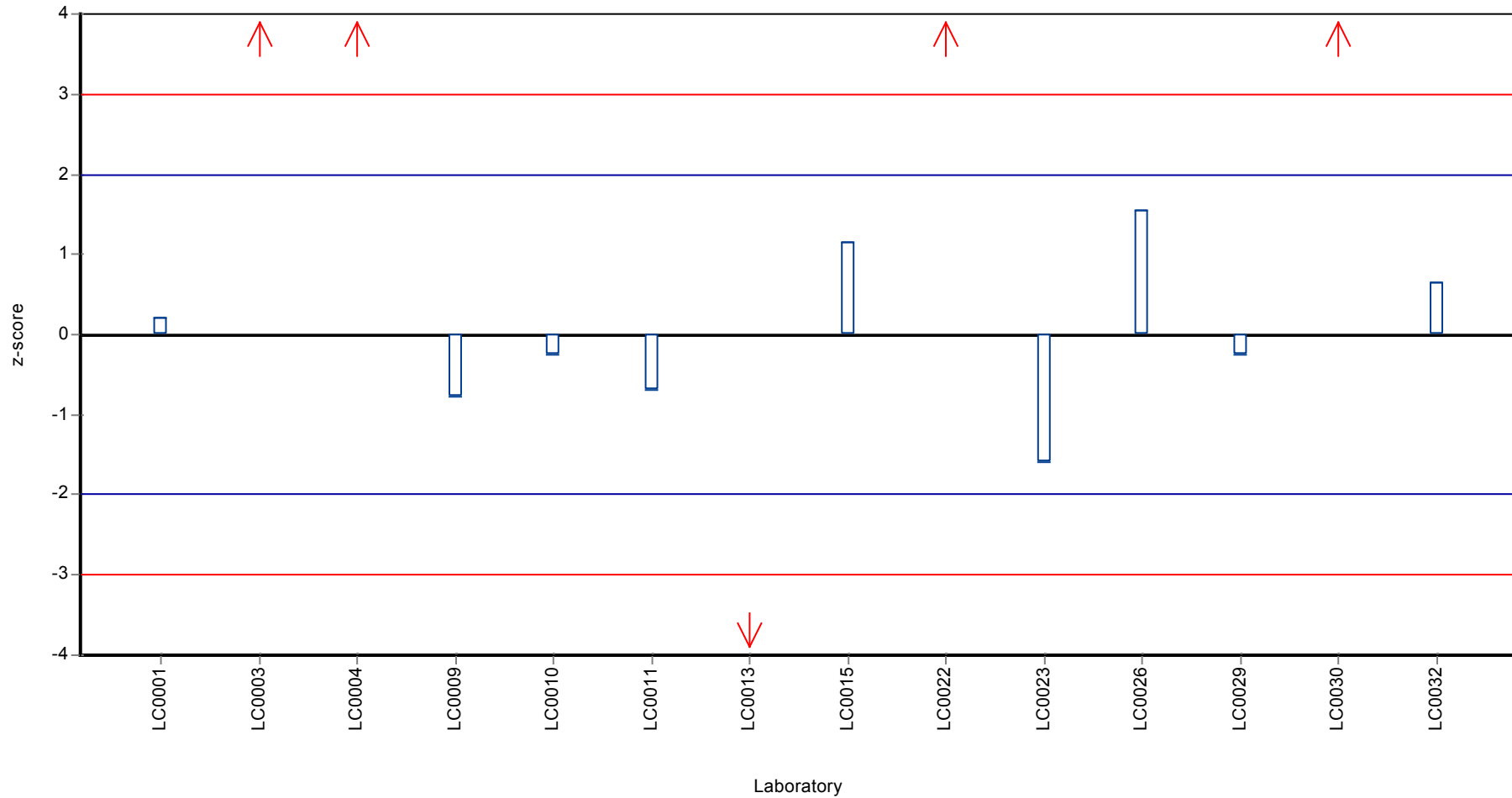
Recovery rate



Parameter oriented report Metalle M135

Sample: M135A, Parameter: Nickel

Z-score



Parameter oriented report

M135 B

Nickel

Unit	µg/l
Mean ± CI (99%)	2,38 ± 0,0848
Minimum - Maximum	2,1 - 2,67
Control test value ± U	2,20 ± 0,113

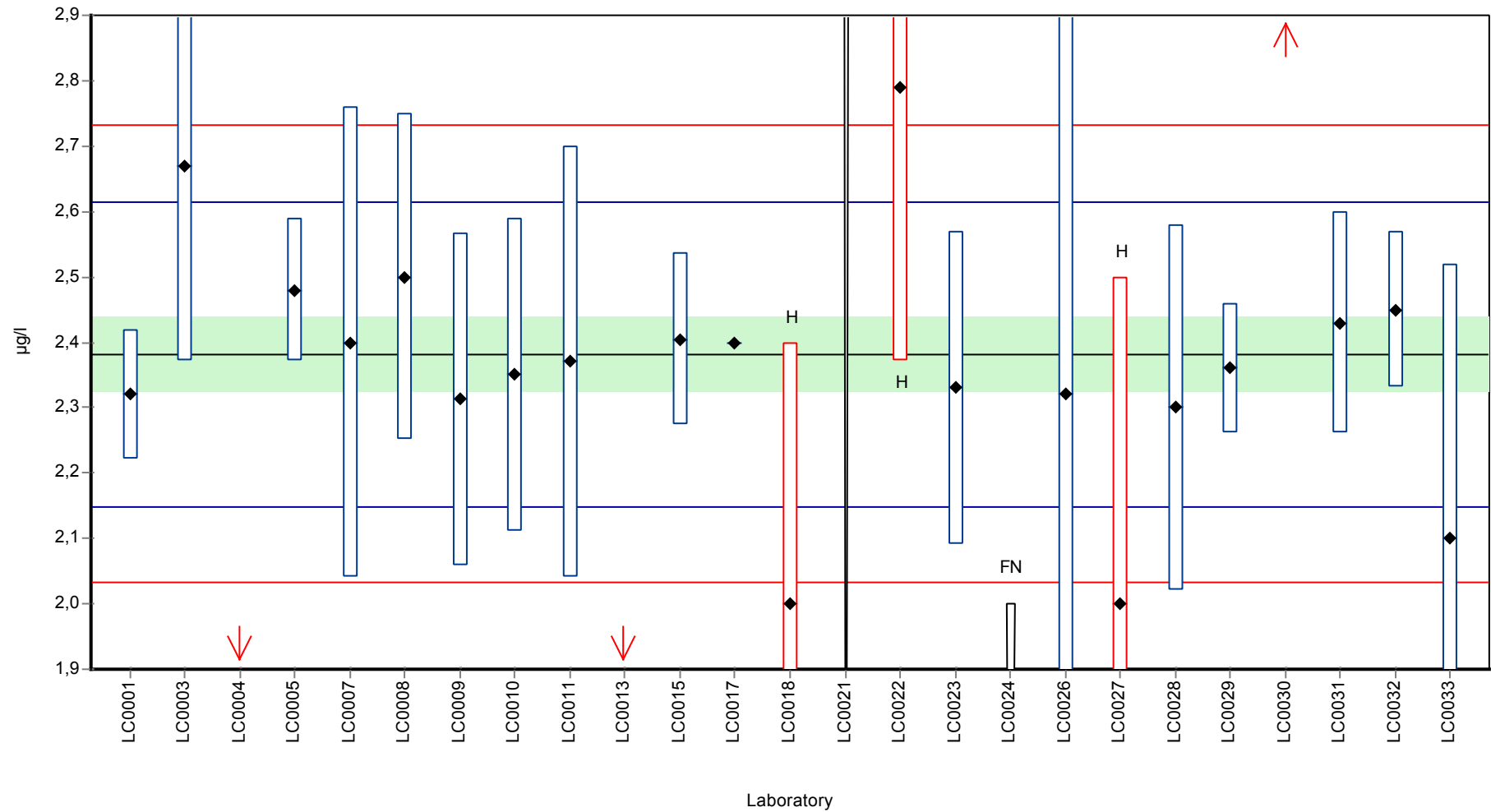
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	2,32	0,1	97,4	-0,53	
LC0002	-	-	-	-	
LC0003	2,67	0,3	112	2,47	
LC0004	1,58	0,6504	66,3	-6,88	H
LC0005	2,48	0,11	104	0,84	
LC0006	-	-	-	-	
LC0007	2,4	0,36	101	0,15	
LC0008	2,5	0,25	105	1,01	
LC0009	2,313	0,254	97,1	-0,59	
LC0010	2,35	0,24	98,6	-0,28	
LC0011	2,37	0,33	99,5	-0,1	
LC0012	-	-	-	-	
LC0013	1,8	0,2	75,6	-4,99	H
LC0014	-	-	-	-	
LC0015	2,4039	0,1317	101	0,19	
LC0016	-	-	-	-	
LC0017	2,4	-	101	0,15	
LC0018	2	0,4	84	-3,28	H
LC0019	-	-	-	-	
LC0020	-	-	-	-	
LC0021	< 5 (LOQ)	-	-	-	
LC0022	2,79	0,42	117	3,5	H
LC0023	2,33	0,24	97,8	-0,45	
LC0024	< 2 (LOQ)	-	-	-	FN
LC0025	-	-	-	-	
LC0026	2,32	0,58	97,4	-0,53	
LC0027	2	0,5	84	-3,28	H
LC0028	2,3	0,28	96,6	-0,7	
LC0029	2,36	0,1	99,1	-0,19	
LC0030	4,4	0,31	185	17,3	H
LC0031	2,43	0,17	102	0,41	
LC0032	2,45	0,12	103	0,58	
LC0033	2,1	0,42	88,2	-2,42	

Characteristics of parameter

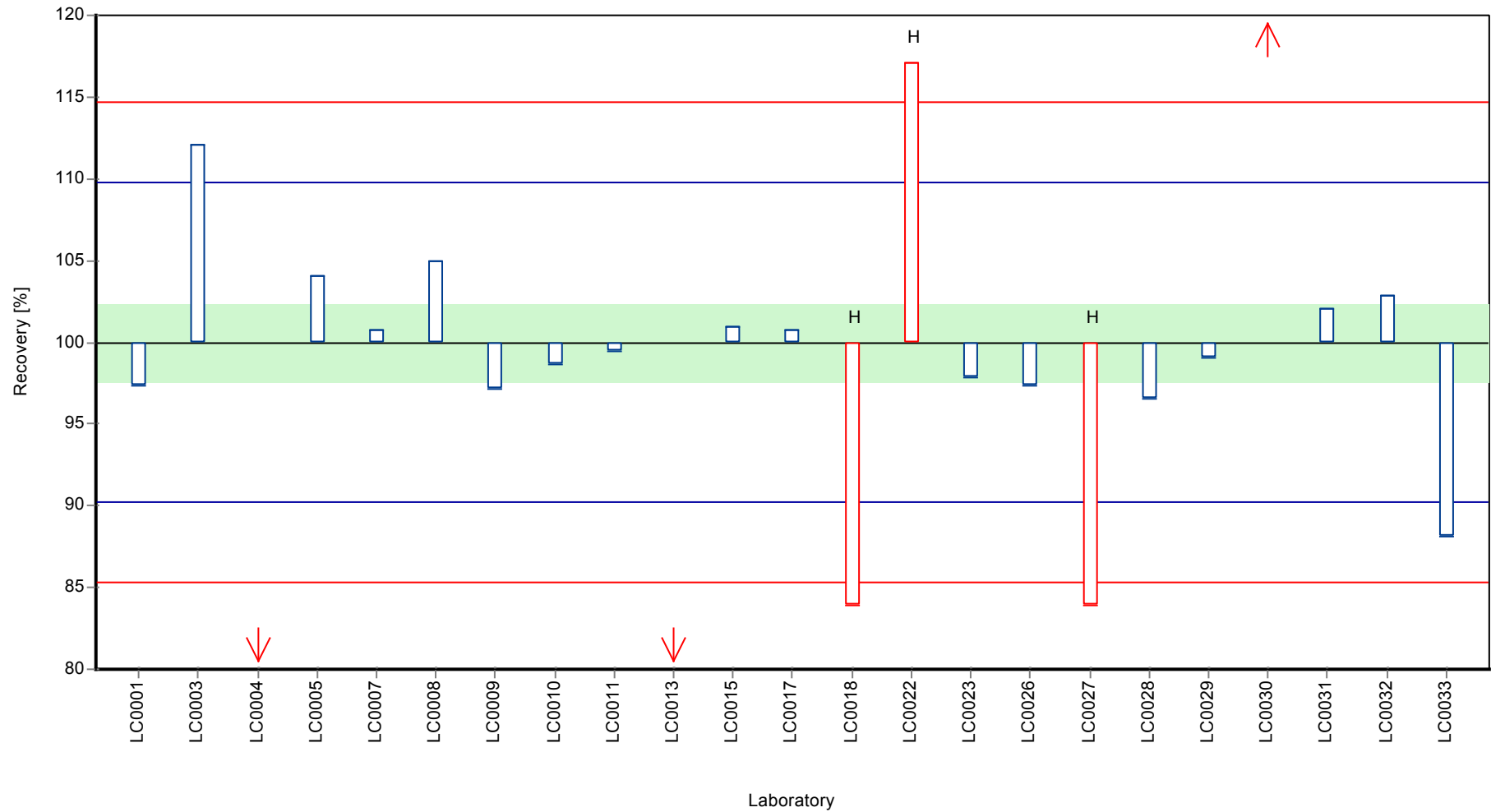
	all results	without outliers	Unit
Mean ± CI (99%)	2,39 ± 0,319	2,38 ± 0,0848	µg/l
Minimum	1,58	2,1	µg/l
Maximum	4,4	2,67	µg/l
Standard deviation	0,51	0,117	µg/l
rel. Standard deviation	21,3	4,9	%
n	23	17	-

Graphical presentation of results

Results



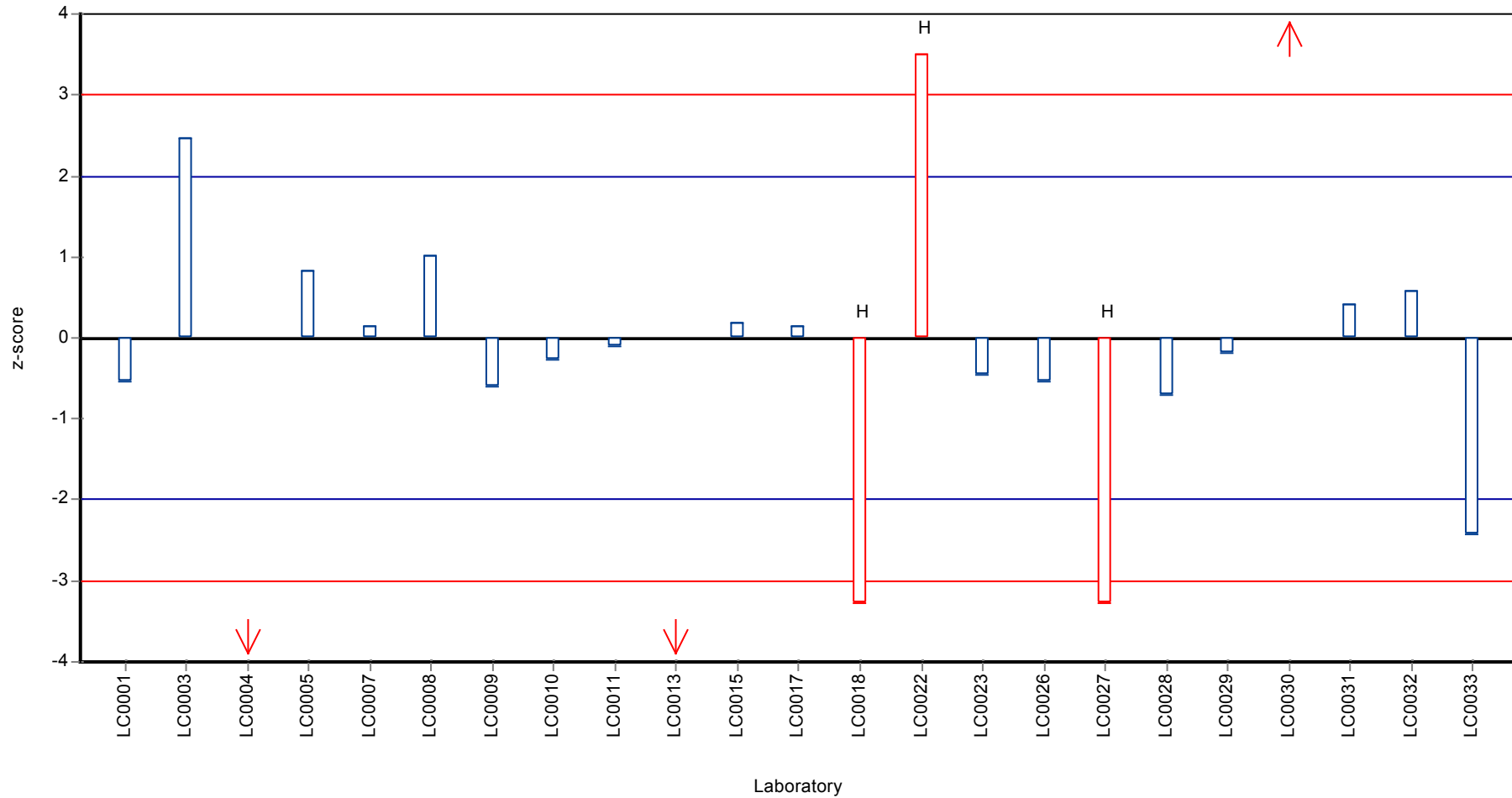
Recovery rate



Parameter oriented report Metalle M135

Sample: M135B, Parameter: Nickel

Z-score



Parameter oriented report

M135 A

Blei

Unit	µg/l
Mean ± CI (99%)	0,436 ± 0,0538
Minimum - Maximum	0,35 - 0,568
Control test value ± U	0,382 ± 0,0752

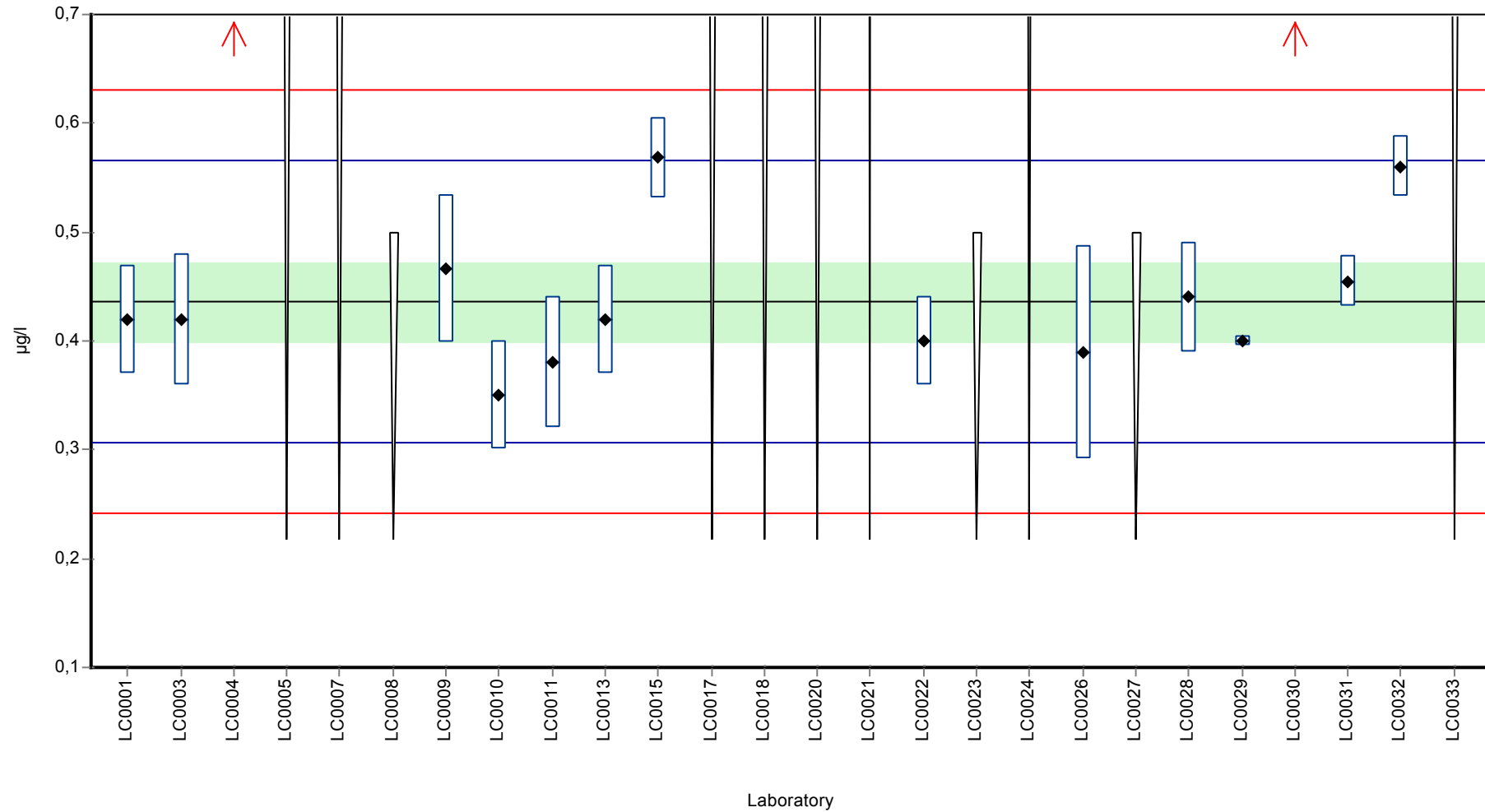
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0,42	0,05	96,3	-0,25	
LC0002	-	-	-	-	
LC0003	0,42	0,06	96,3	-0,25	
LC0004	0,71	-	163	4,24	H
LC0005	< 1 (LOQ)	-	-	-	
LC0006	-	-	-	-	
LC0007	< 1 (LOQ)	-	-	-	
LC0008	< 0,5 (LOQ)	-	-	-	
LC0009	0,4664	0,0681	107	0,47	
LC0010	0,35	0,05	80,3	-1,33	
LC0011	0,38	0,06	87,1	-0,87	
LC0012	-	-	-	-	
LC0013	0,42	0,05	96,3	-0,25	
LC0014	-	-	-	-	
LC0015	0,5682	0,0372	130	2,04	
LC0016	-	-	-	-	
LC0017	< 1 (LOQ)	-	-	-	
LC0018	< 1 (LOQ)	-	-	-	
LC0019	-	-	-	-	
LC0020	< 1 (LOQ)	-	-	-	
LC0021	< 6 (LOQ)	-	-	-	
LC0022	0,4	0,04	91,7	-0,56	
LC0023	< 0,5 (LOQ)	-	-	-	
LC0024	< 2 (LOQ)	-	-	-	
LC0025	-	-	-	-	
LC0026	0,39	0,098	89,4	-0,71	
LC0027	< 0,5 (LOQ)	-	-	-	
LC0028	0,44	0,05	101	0,06	
LC0029	0,4	0,004	91,7	-0,56	
LC0030	0,9	0,063	206	7,17	H
LC0031	0,455	0,0228	104	0,29	
LC0032	0,56	0,028	128	1,92	
LC0033	< 1 (LOQ)	-	-	-	

Characteristics of parameter

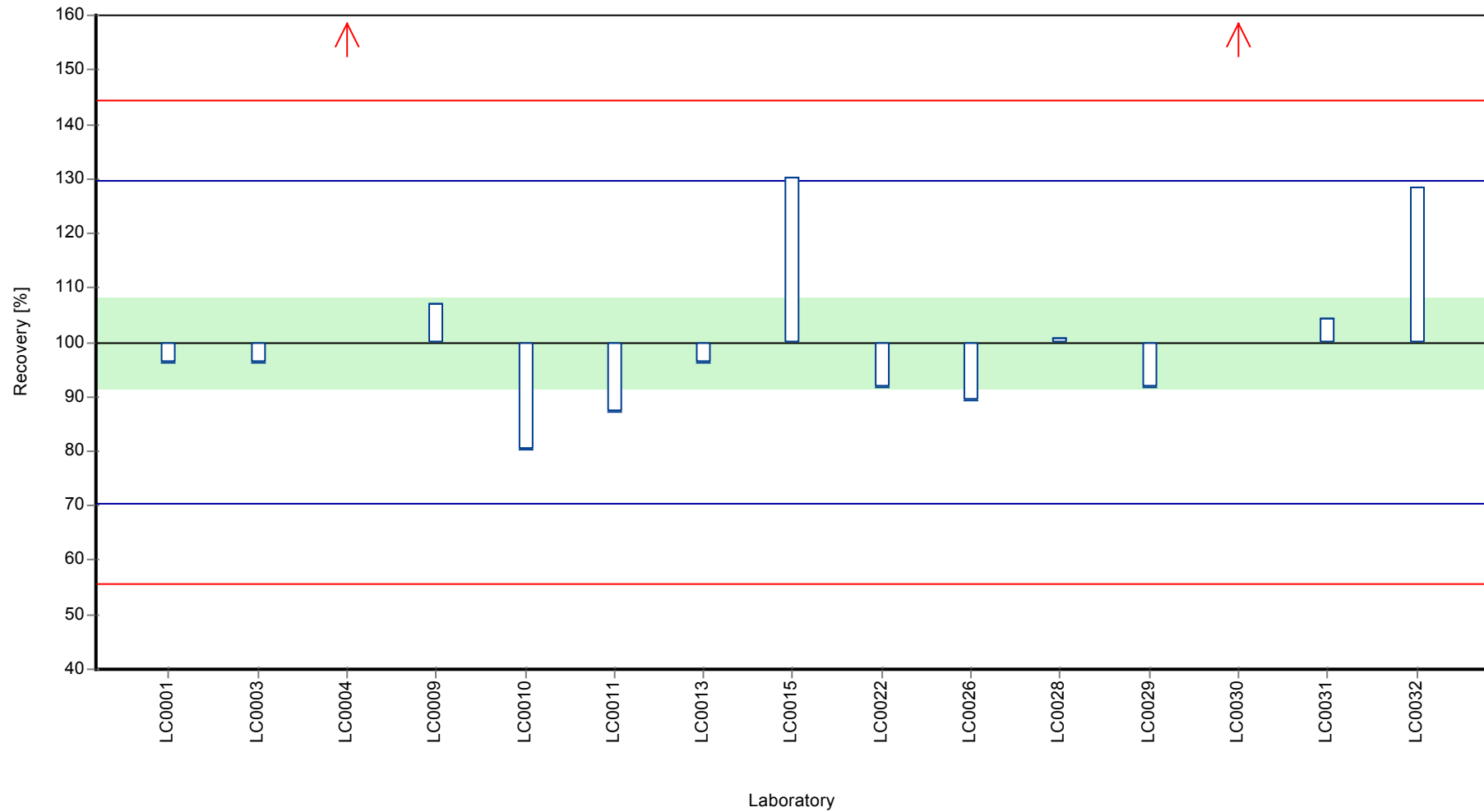
	all results	without outliers	Unit
Mean ± CI (99%)	0,485 ± 0,114	0,436 ± 0,0538	µg/l
Minimum	0,35	0,35	µg/l
Maximum	0,9	0,568	µg/l
Standard deviation	0,147	0,0647	µg/l
rel. Standard deviation	30,4	14,8	%
n	15	13	-

Graphical presentation of results

Results



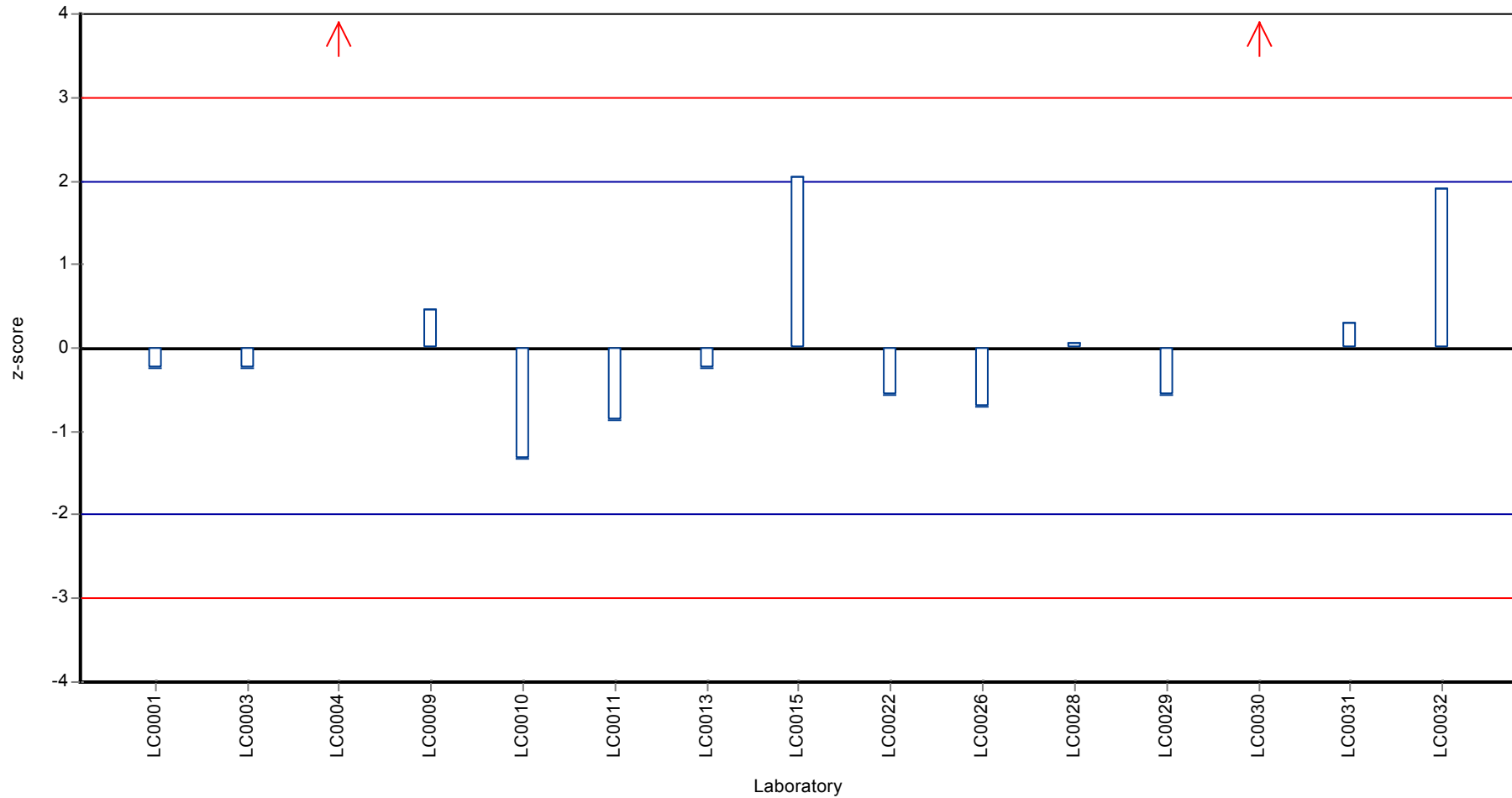
Recovery rate



Parameter oriented report Metalle M135

Sample: M135A, Parameter: Blei

Z-score



Parameter oriented report

M135 B

Blei

Unit	µg/l
Mean ± CI (99%)	1,01 ± 0,0455
Minimum - Maximum	0,84 - 1,11
Control test value ± U	0,931 ± 0,0426

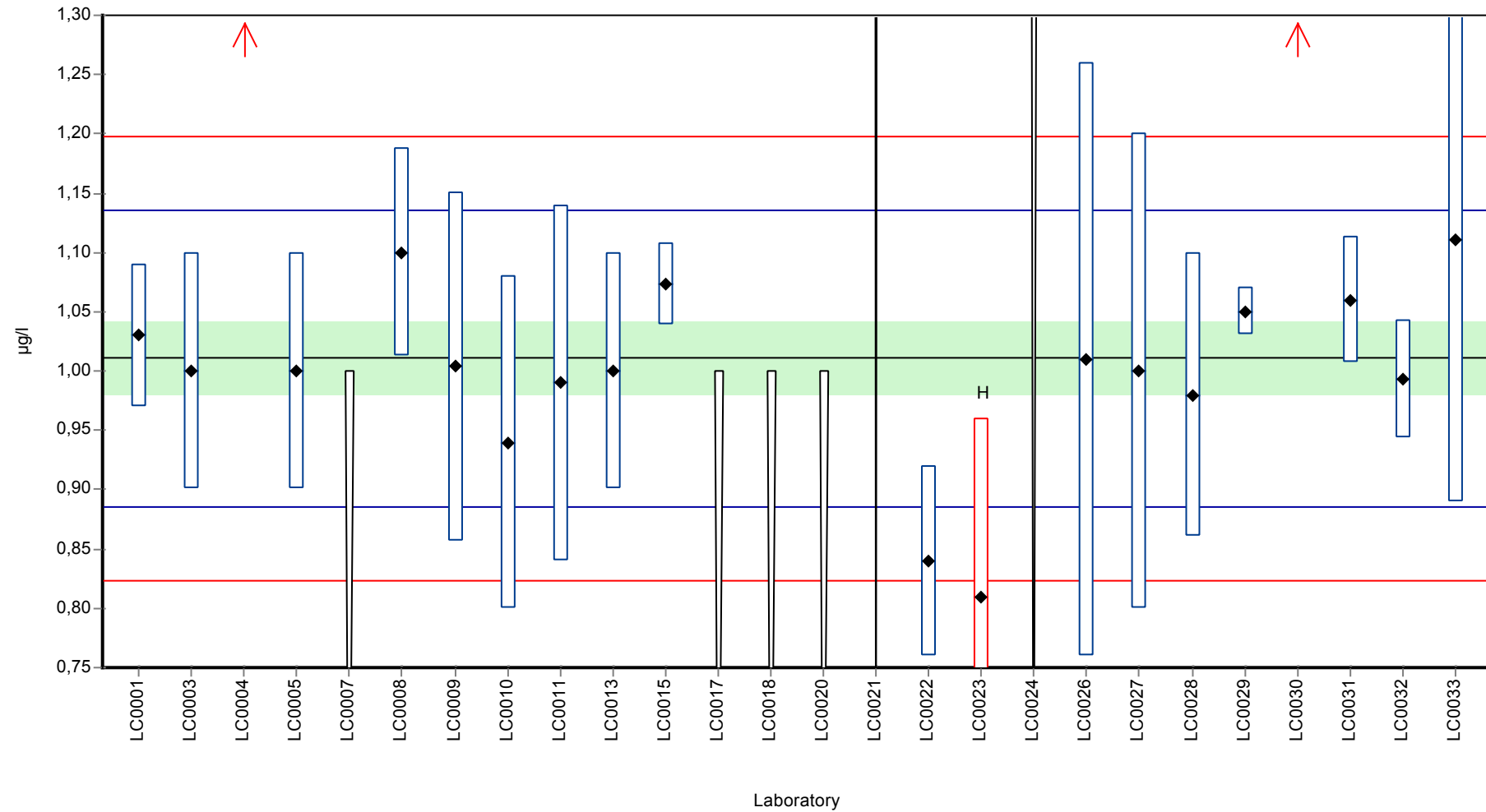
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	1,03	0,06	102	0,31	
LC0002	-	-	-	-	
LC0003	1	0,1	98,9	-0,17	
LC0004	1,5	0,7302	148	7,83	H
LC0005	1	0,1	98,9	-0,17	
LC0006	-	-	-	-	
LC0007	< 1 (LOQ)	-	-	-	
LC0008	1,1	0,088	109	1,43	
LC0009	1,004	0,147	99,3	-0,11	
LC0010	0,94	0,14	93	-1,13	
LC0011	0,99	0,15	98	-0,33	
LC0012	-	-	-	-	
LC0013	1	0,1	98,9	-0,17	
LC0014	-	-	-	-	
LC0015	1,0734	0,0343	106	1,01	
LC0016	-	-	-	-	
LC0017	< 1 (LOQ)	-	-	-	
LC0018	< 1 (LOQ)	-	-	-	
LC0019	-	-	-	-	
LC0020	< 1 (LOQ)	-	-	-	
LC0021	< 6 (LOQ)	-	-	-	
LC0022	0,84	0,08	83,1	-2,73	
LC0023	0,81	0,15	80,1	-3,21	H
LC0024	< 2 (LOQ)	-	-	-	
LC0025	-	-	-	-	
LC0026	1,01	0,25	99,9	-0,01	
LC0027	1	0,2	98,9	-0,17	
LC0028	0,98	0,12	97	-0,49	
LC0029	1,05	0,02	104	0,63	
LC0030	2,4	0,17	237	22,2	H
LC0031	1,06	0,053	105	0,79	
LC0032	0,993	0,05	98,3	-0,28	
LC0033	1,11	0,22	110	1,59	

Characteristics of parameter

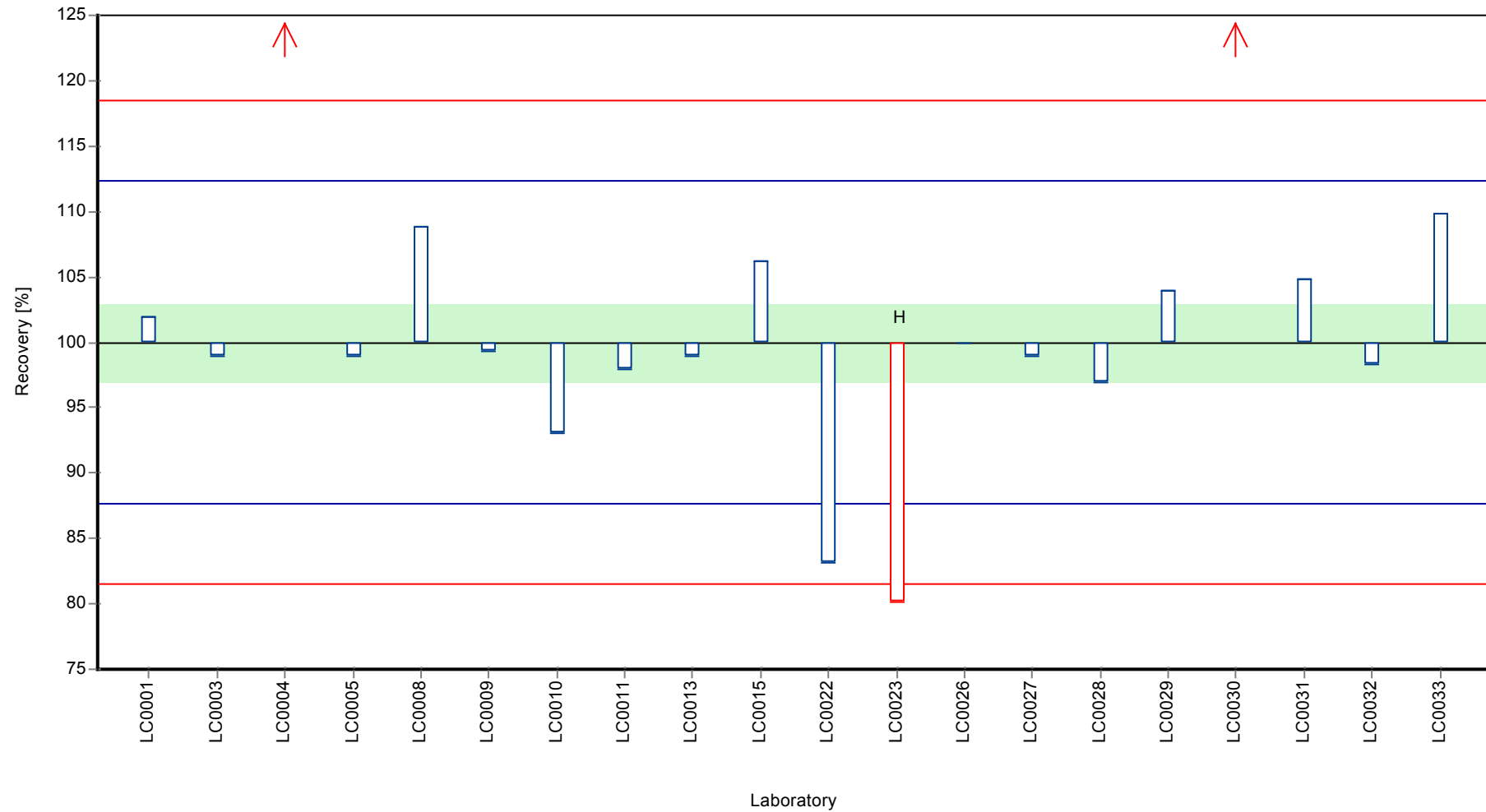
	all results	without outliers	Unit
Mean ± CI (99%)	1,09 ± 0,225	1,01 ± 0,0455	µg/l
Minimum	0,81	0,84	µg/l
Maximum	2,4	1,11	µg/l
Standard deviation	0,335	0,0625	µg/l
rel. Standard deviation	30,6	6,18	%
n	20	17	-

Graphical presentation of results

Results



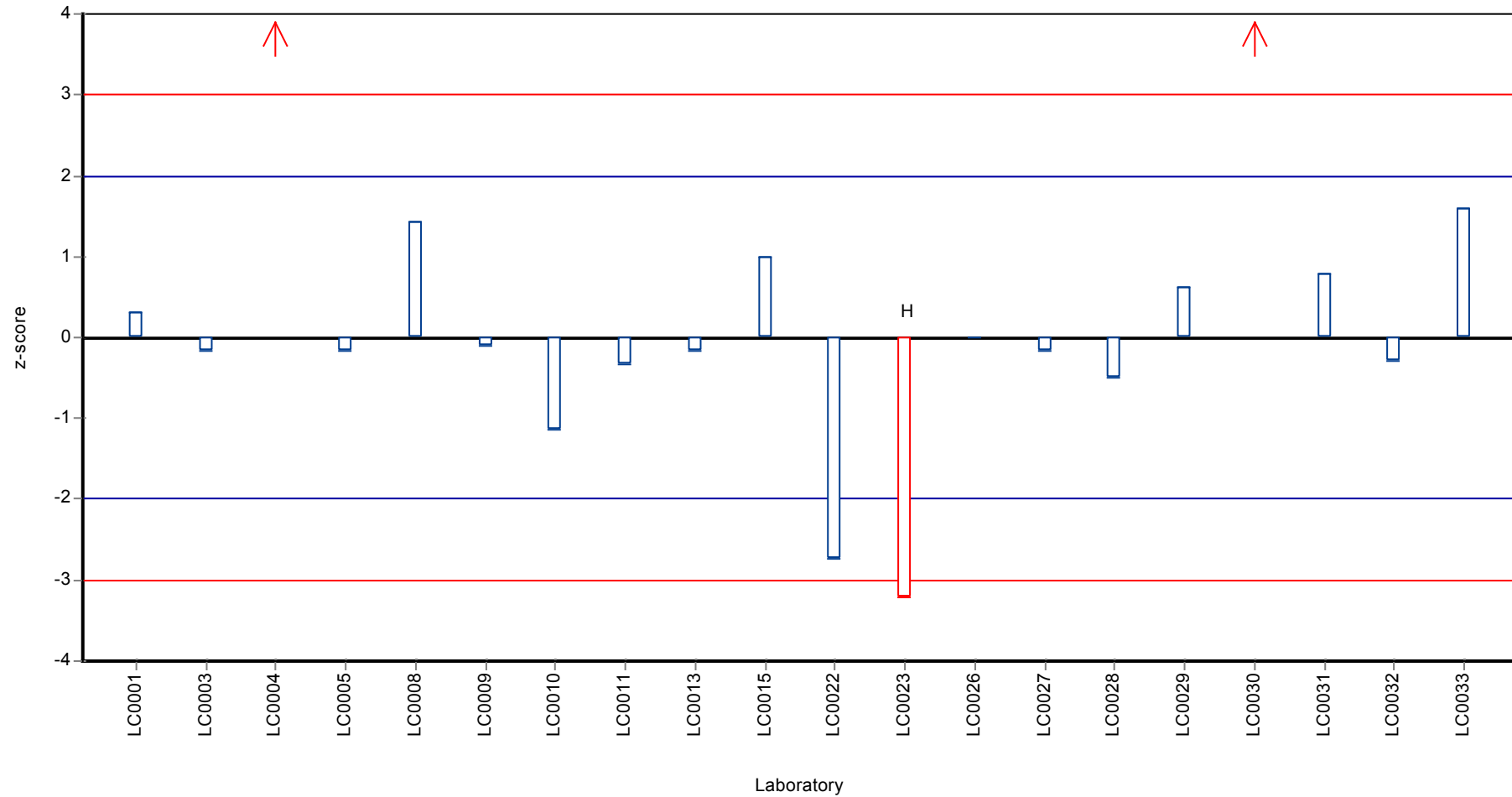
Recovery rate



Parameter oriented report Metalle M135

Sample: M135B, Parameter: Blei

Z-score



Parameter oriented report

M135 A

Selen

Unit	µg/l
Mean ± CI (99%)	0,139 ± 0,0179
Minimum - Maximum	0,122 - 0,16
Control test value ± U	<2 (BG)

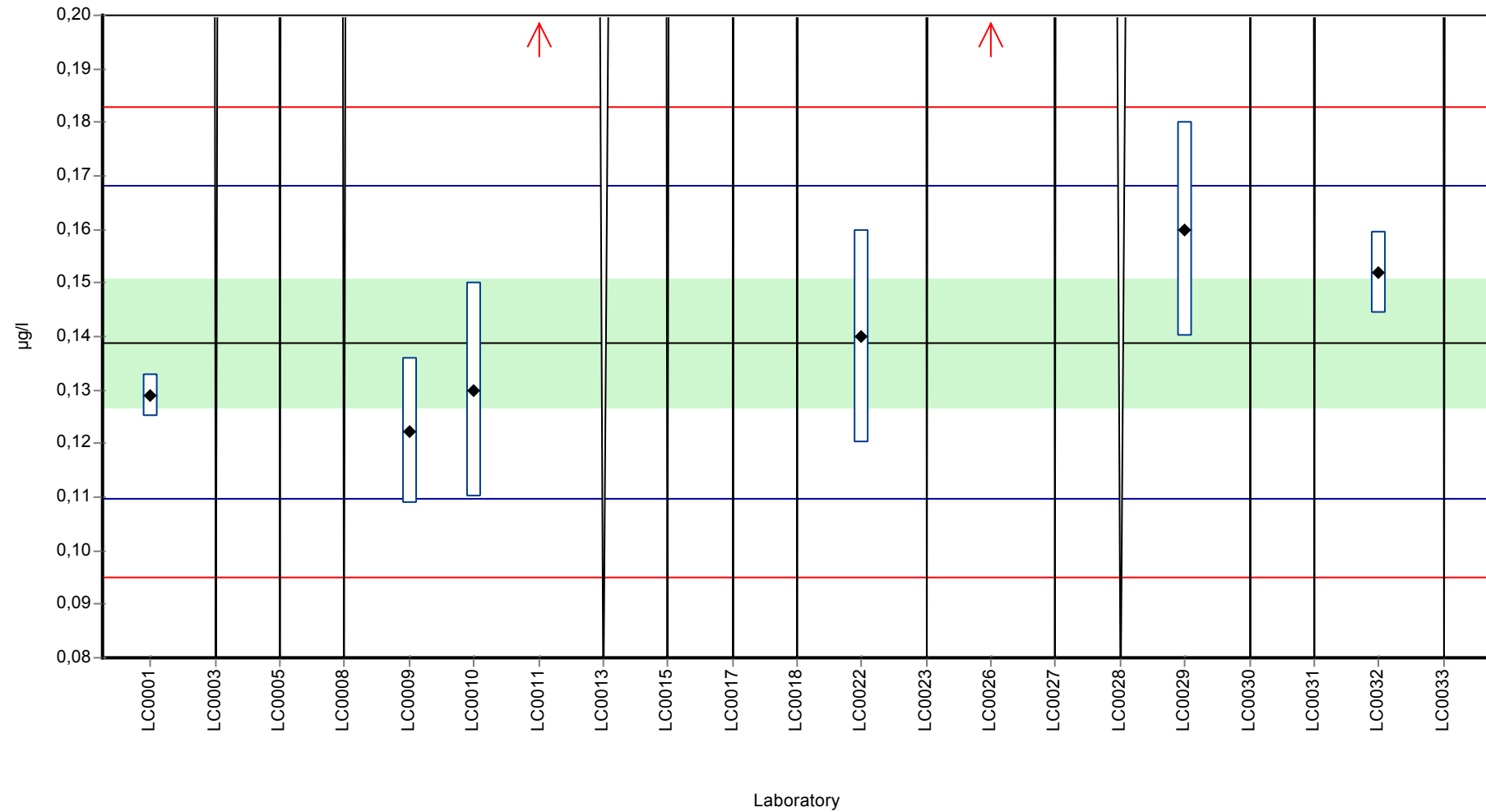
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	0,129	0,004	92,9	-0,68	
LC0002	-	-	-	-	
LC0003	< 0,5 (LOQ)	-	-	-	
LC0004	-	-	-	-	
LC0005	< 1 (LOQ)	-	-	-	
LC0006	-	-	-	-	
LC0007	-	-	-	-	
LC0008	< 0,5 (LOQ)	-	-	-	
LC0009	0,1223	0,0136	88,1	-1,13	
LC0010	0,13	0,02	93,6	-0,61	
LC0011	2,74	0,38	1970	178	H
LC0012	-	-	-	-	
LC0013	< 0,2 (LOQ)	-	-	-	
LC0014	-	-	-	-	
LC0015	< 0,5851 (LOQ)	-	-	-	
LC0016	-	-	-	-	
LC0017	< 2 (LOQ)	-	-	-	
LC0018	< 1 (LOQ)	-	-	-	
LC0019	-	-	-	-	
LC0020	-	-	-	-	
LC0021	-	-	-	-	
LC0022	0,14	0,02	101	0,08	
LC0023	< 1 (LOQ)	-	-	-	
LC0024	-	-	-	-	
LC0025	-	-	-	-	
LC0026	0,29	0,073	209	10,3	H
LC0027	< 1 (LOQ)	-	-	-	
LC0028	< 0,2 (LOQ)	-	-	-	
LC0029	0,16	0,02	115	1,44	
LC0030	< 5 (LOQ)	-	-	-	
LC0031	< 1 (LOQ)	-	-	-	
LC0032	0,152	0,0076	109	0,9	
LC0033	< 1 (LOQ)	-	-	-	

Characteristics of parameter

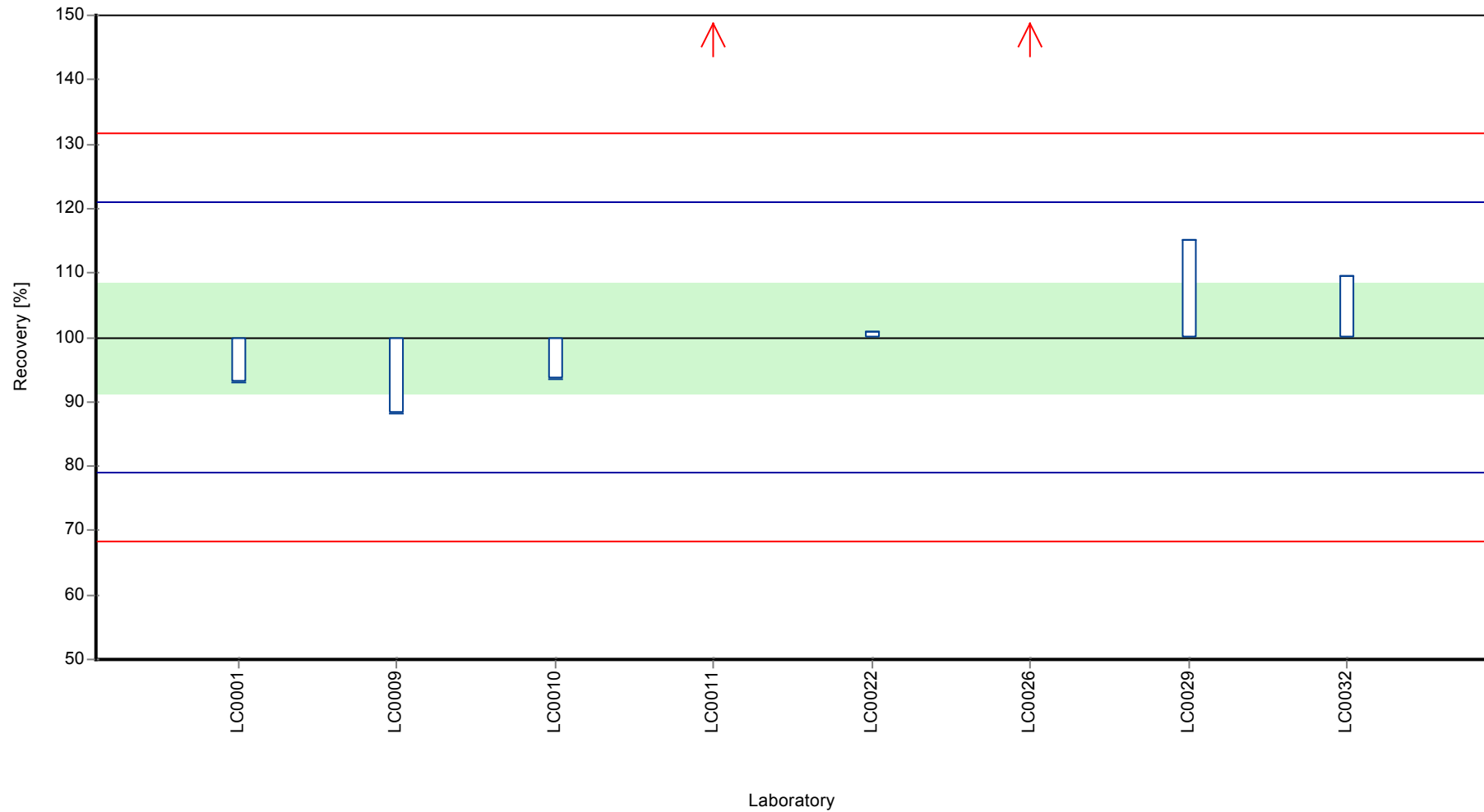
	all results	without outliers	Unit
Mean ± CI (99%)	0,483 ± 0,969	0,139 ± 0,0179	µg/l
Minimum	0,122	0,122	µg/l
Maximum	2,74	0,16	µg/l
Standard deviation	0,914	0,0146	µg/l
rel. Standard deviation	189	10,5	%
n	8	6	-

Graphical presentation of results

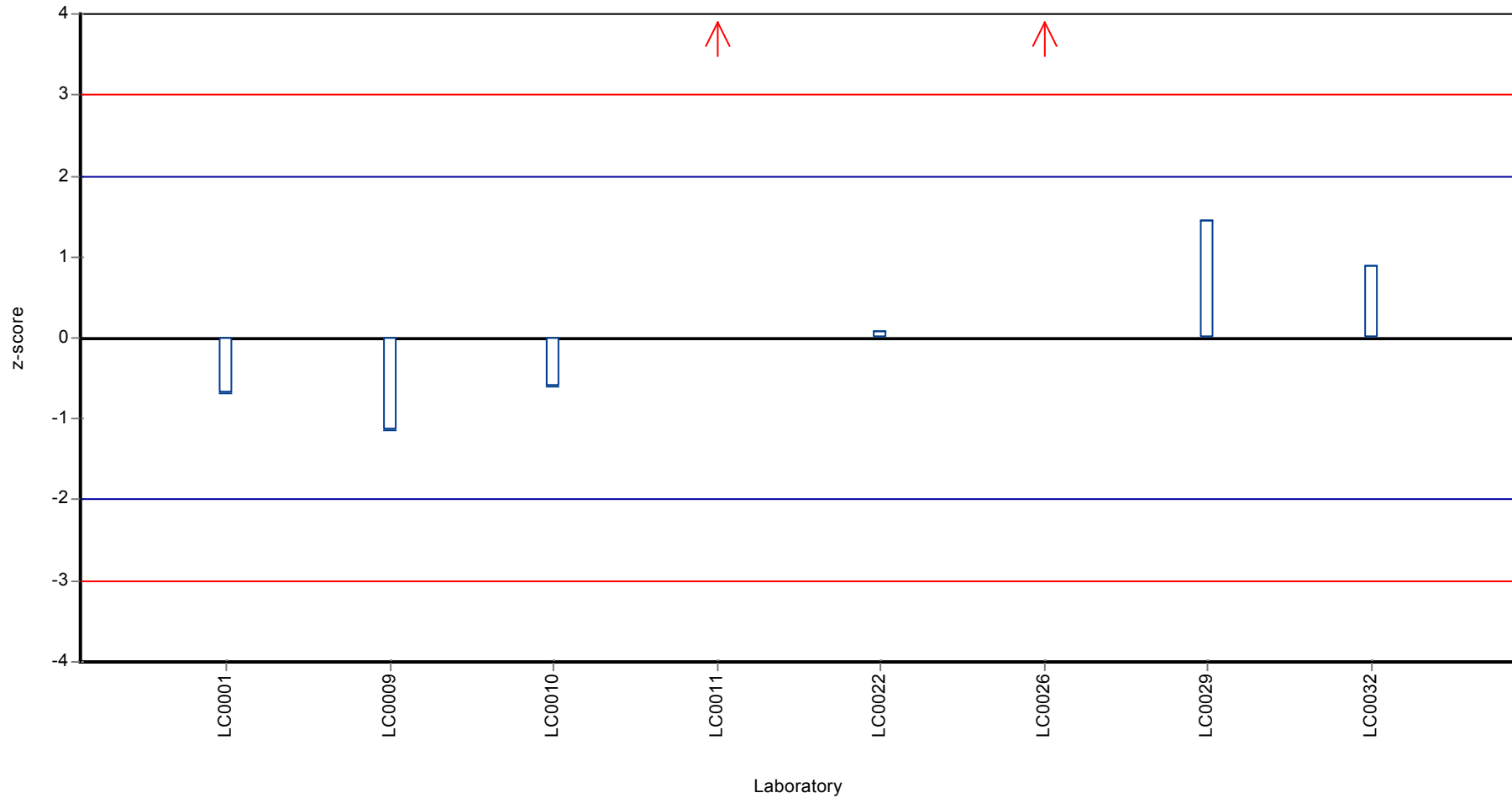
Results



Recovery rate



Z-score



Parameter oriented report

M135 B

Selen

Unit	µg/l
Mean ± CI (99%)	2,54 ± 0,218
Minimum - Maximum	2 - 3,24
Control test value ± U	2,00 ± 0,407

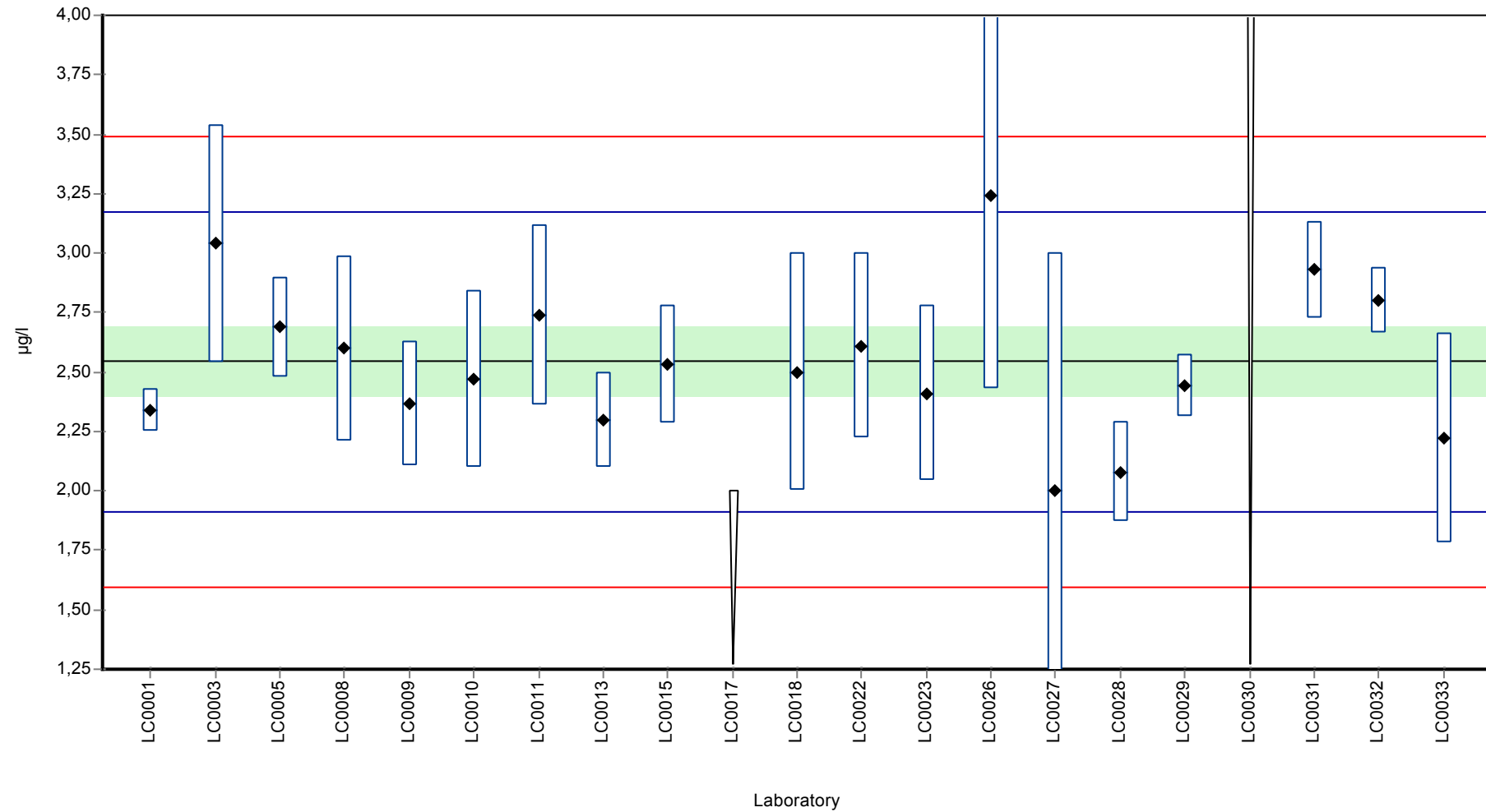
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	2,34	0,09	92	-0,64	
LC0002	-	-	-	-	
LC0003	3,04	0,5	120	1,57	
LC0004	-	-	-	-	
LC0005	2,69	0,21	106	0,47	
LC0006	-	-	-	-	
LC0007	-	-	-	-	
LC0008	2,6	0,39	102	0,18	
LC0009	2,365	0,2602	93	-0,56	
LC0010	2,47	0,37	97,1	-0,23	
LC0011	2,74	0,38	108	0,63	
LC0012	-	-	-	-	
LC0013	2,3	0,2	90,5	-0,77	
LC0014	-	-	-	-	
LC0015	2,5345	0,2478	99,7	-0,03	
LC0016	-	-	-	-	
LC0017	< 2 (LOQ)	-	-	-	
LC0018	2,5	0,5	98,3	-0,14	
LC0019	-	-	-	-	
LC0020	-	-	-	-	
LC0021	-	-	-	-	
LC0022	2,61	0,39	103	0,21	
LC0023	2,41	0,37	94,8	-0,42	
LC0024	-	-	-	-	
LC0025	-	-	-	-	
LC0026	3,24	0,81	127	2,21	
LC0027	2	1	78,7	-1,72	
LC0028	2,08	0,21	81,8	-1,46	
LC0029	2,44	0,13	96	-0,33	
LC0030	< 5 (LOQ)	-	-	-	
LC0031	2,93	0,205	115	1,23	
LC0032	2,8	0,14	110	0,81	
LC0033	2,22	0,44	87,3	-1,02	

Characteristics of parameter

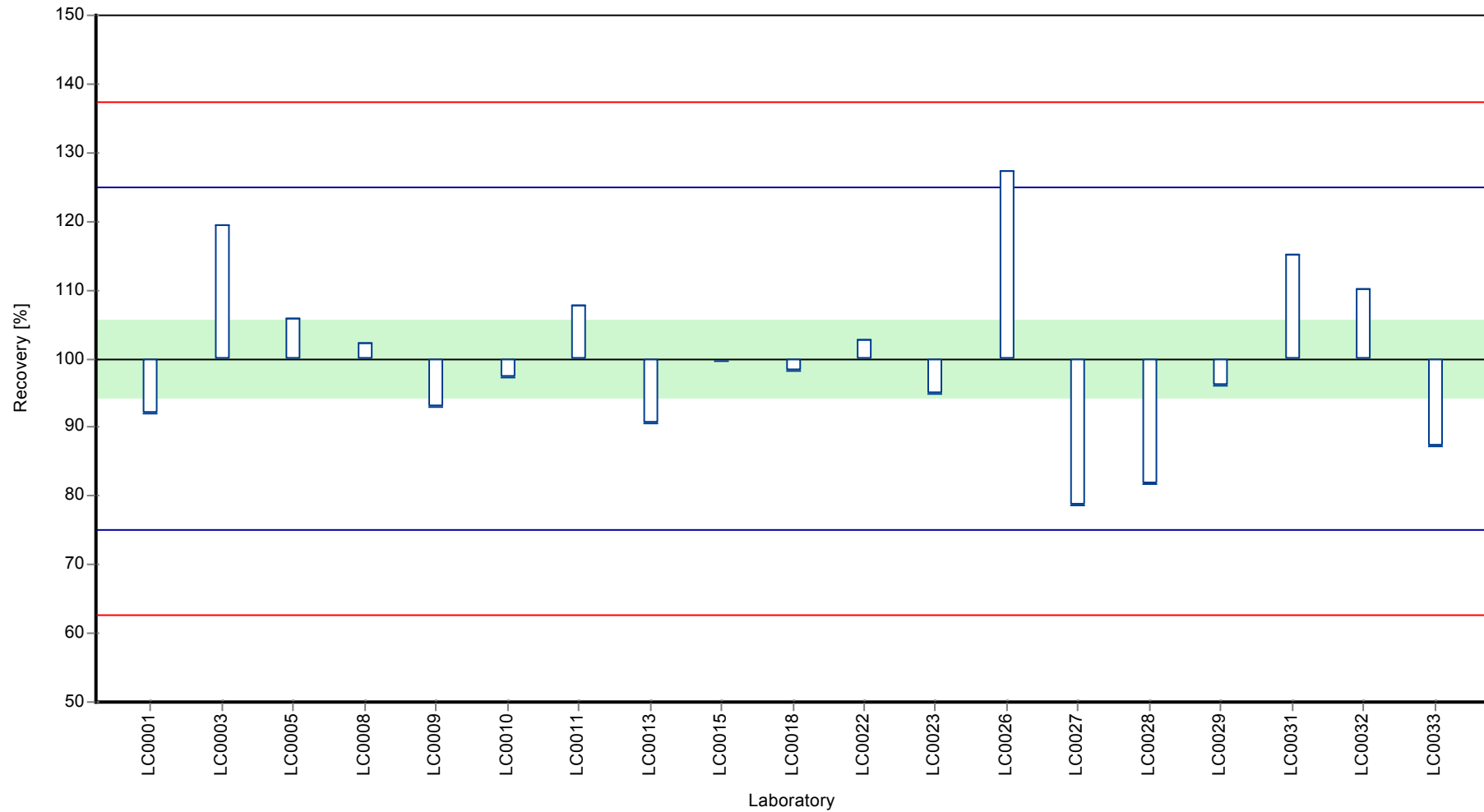
	all results	without outliers	Unit
Mean ± CI (99%)	2,54 ± 0,218	2,54 ± 0,218	µg/l
Minimum	2	2	µg/l
Maximum	3,24	3,24	µg/l
Standard deviation	0,316	0,316	µg/l
rel. Standard deviation	12,4	12,4	%
n	19	19	-

Graphical presentation of results

Results



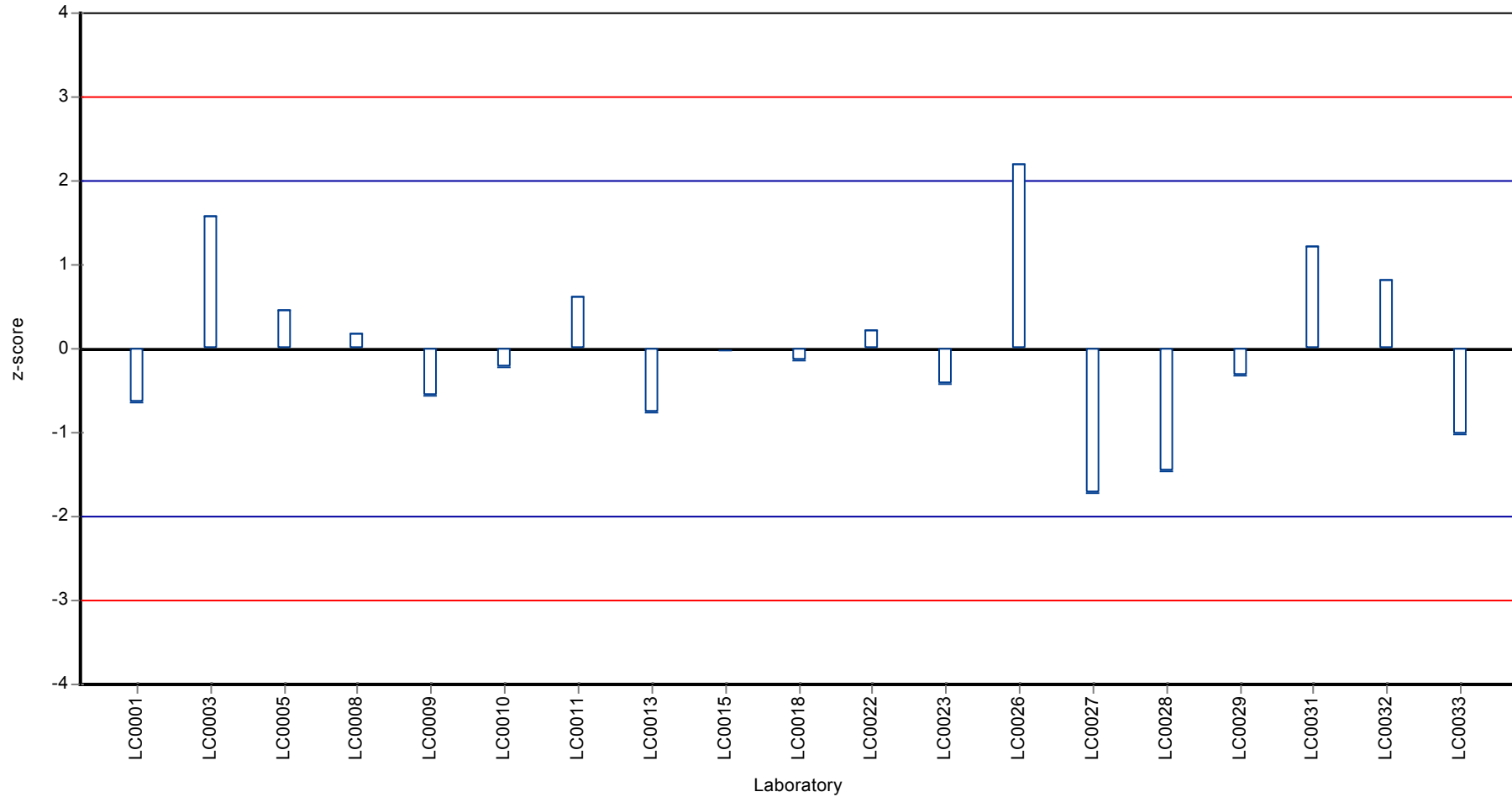
Recovery rate



Parameter oriented report Metalle M135

Sample: M135B, Parameter: Selen

Z-score



Parameter oriented report

M135 A

Uran

Unit	µg/l
Mean ± CI (99%)	1,08 ± 0,0479
Minimum - Maximum	0,943 - 1,2
Control test value ± U	1,04 ± 0,0262

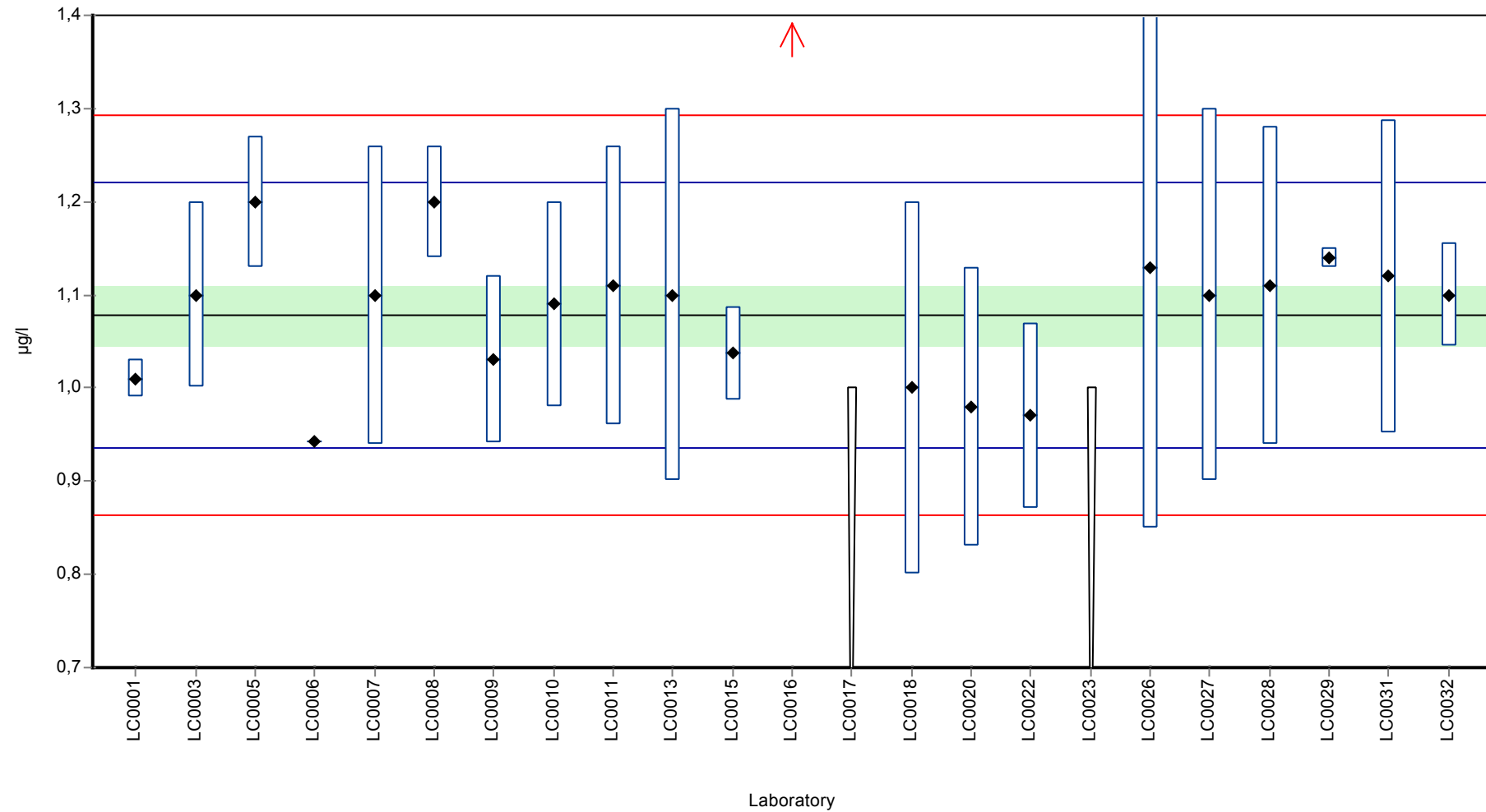
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	1,01	0,02	93,6	-0,96	
LC0002	-	-	-	-	
LC0003	1,1	0,1	102	0,3	
LC0004	-	-	-	-	
LC0005	1,2	0,07	111	1,7	
LC0006	0,943	-	87,4	-1,9	
LC0007	1,1	0,16	102	0,3	
LC0008	1,2	0,06	111	1,7	
LC0009	1,03	0,0896	95,5	-0,68	
LC0010	1,09	0,11	101	0,16	
LC0011	1,11	0,15	103	0,44	
LC0012	-	-	-	-	
LC0013	1,1	0,2	102	0,3	
LC0014	-	-	-	-	
LC0015	1,0372	0,0499	96,2	-0,58	
LC0016	1,46	0,05	135	5,34	H
LC0017	< 1 (LOQ)	-	-	-	
LC0018	1	0,2	92,7	-1,1	
LC0019	-	-	-	-	
LC0020	0,98	0,15	90,9	-1,38	
LC0021	-	-	-	-	
LC0022	0,97	0,1	89,9	-1,52	
LC0023	< 1 (LOQ)	-	-	-	
LC0024	-	-	-	-	
LC0025	-	-	-	-	
LC0026	1,13	0,28	105	0,72	
LC0027	1,1	0,2	102	0,3	
LC0028	1,11	0,17	103	0,44	
LC0029	1,14	0,011	106	0,86	
LC0030	-	-	-	-	
LC0031	1,12	0,168	104	0,58	
LC0032	1,1	0,055	102	0,3	
LC0033	-	-	-	-	

Characteristics of parameter

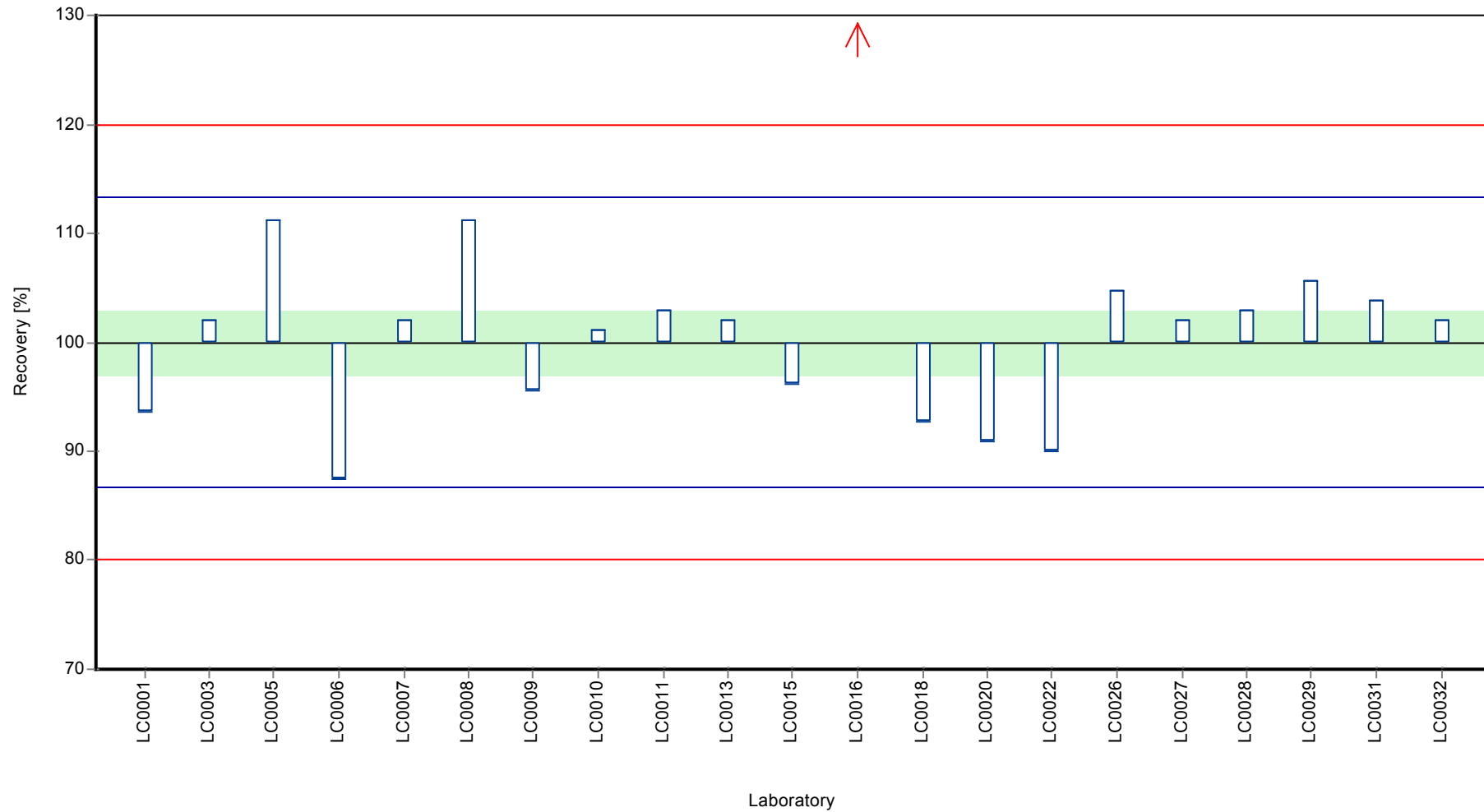
	all results	without outliers	Unit
Mean ± CI (99%)	1,1 ± 0,071	1,08 ± 0,0479	µg/l
Minimum	0,943	0,943	µg/l
Maximum	1,46	1,2	µg/l
Standard deviation	0,108	0,0714	µg/l
rel. Standard deviation	9,89	6,62	%
n	21	20	-

Graphical presentation of results

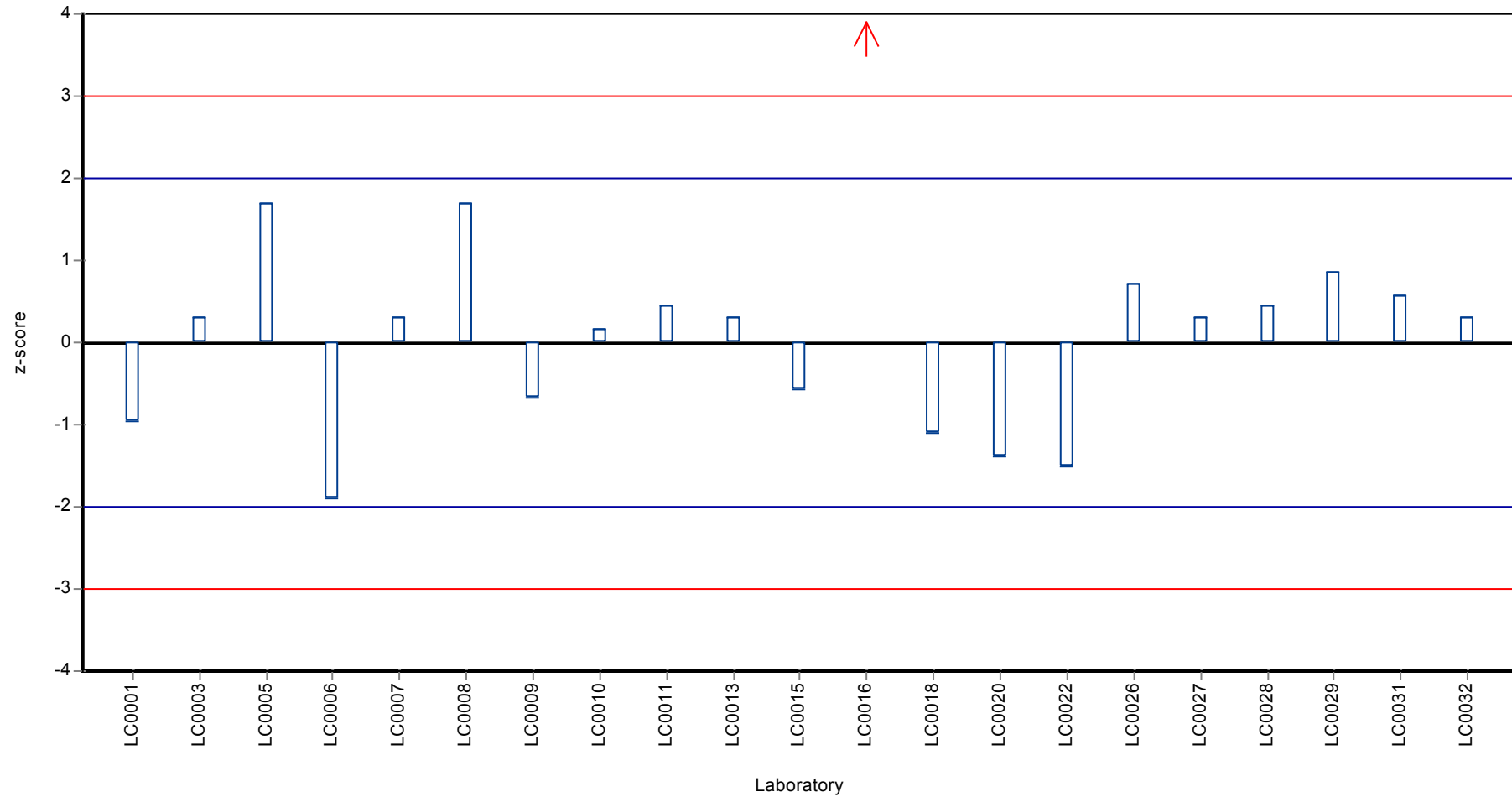
Results



Recovery rate



Z-score



Parameter oriented report

M135 B

Uran

Unit	µg/l
Mean ± CI (99%)	3,33 ± 0,131
Minimum - Maximum	2,98 - 3,6
Control test value ± U	3,13 ± 0,0796

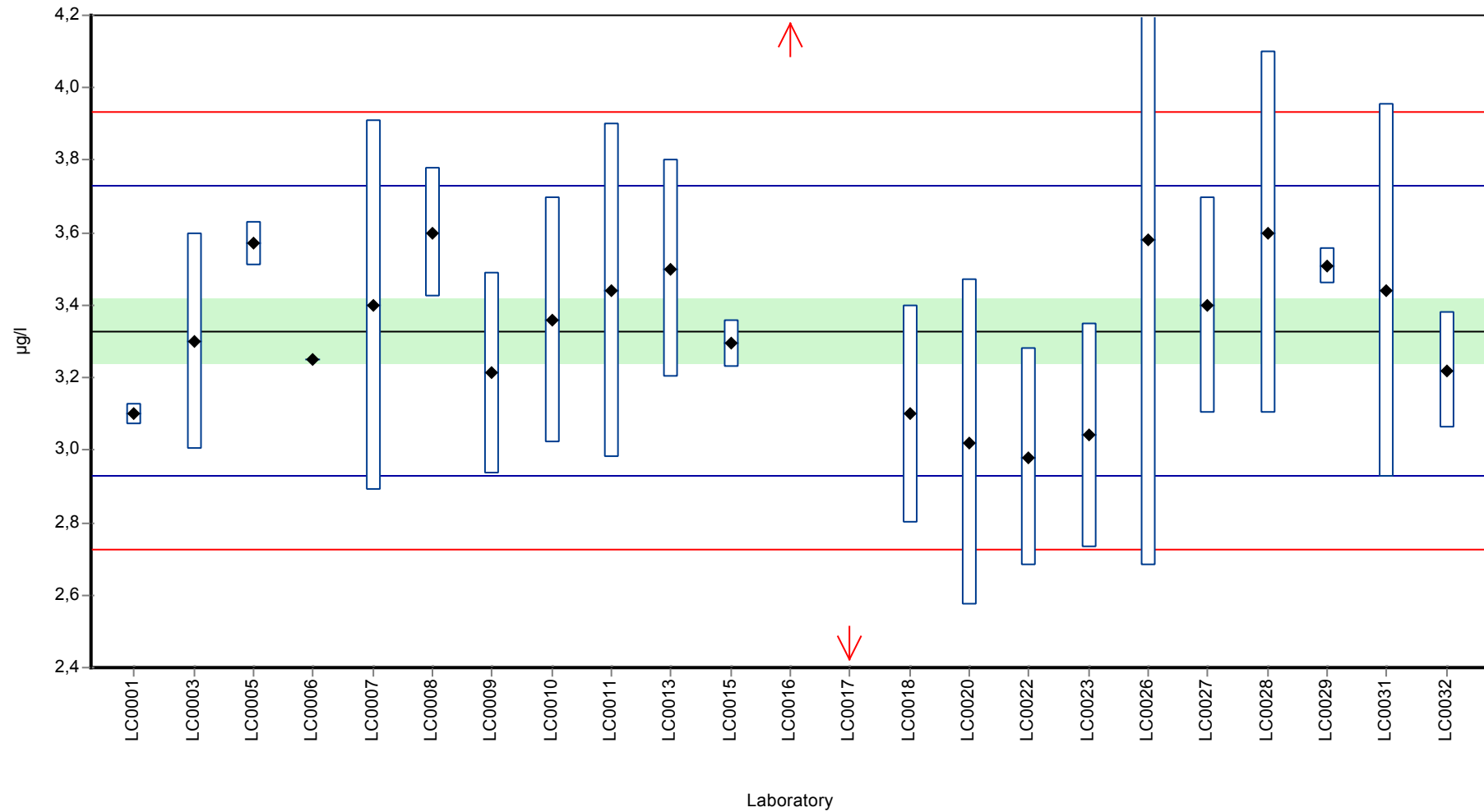
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	3,1	0,03	93,1	-1,14	
LC0002	-	-	-	-	
LC0003	3,3	0,3	99,1	-0,15	
LC0004	-	-	-	-	
LC0005	3,57	0,06	107	1,2	
LC0006	3,249	-	97,6	-0,4	
LC0007	3,4	0,51	102	0,35	
LC0008	3,6	0,18	108	1,35	
LC0009	3,212	0,279	96,5	-0,58	
LC0010	3,36	0,34	101	0,15	
LC0011	3,44	0,46	103	0,55	
LC0012	-	-	-	-	
LC0013	3,5	0,3	105	0,85	
LC0014	-	-	-	-	
LC0015	3,2935	0,0648	98,9	-0,18	
LC0016	5,23	0,21	157	9,47	H
LC0017	1,5	-	45,1	-9,12	H
LC0018	3,1	0,3	93,1	-1,14	
LC0019	-	-	-	-	
LC0020	3,02	0,45	90,7	-1,54	
LC0021	-	-	-	-	
LC0022	2,98	0,3	89,5	-1,74	
LC0023	3,04	0,31	91,3	-1,44	
LC0024	-	-	-	-	
LC0025	-	-	-	-	
LC0026	3,58	0,9	108	1,25	
LC0027	3,4	0,3	102	0,35	
LC0028	3,6	0,5	108	1,35	
LC0029	3,51	0,05	105	0,9	
LC0030	-	-	-	-	
LC0031	3,44	0,516	103	0,55	
LC0032	3,22	0,16	96,7	-0,54	
LC0033	-	-	-	-	

Characteristics of parameter

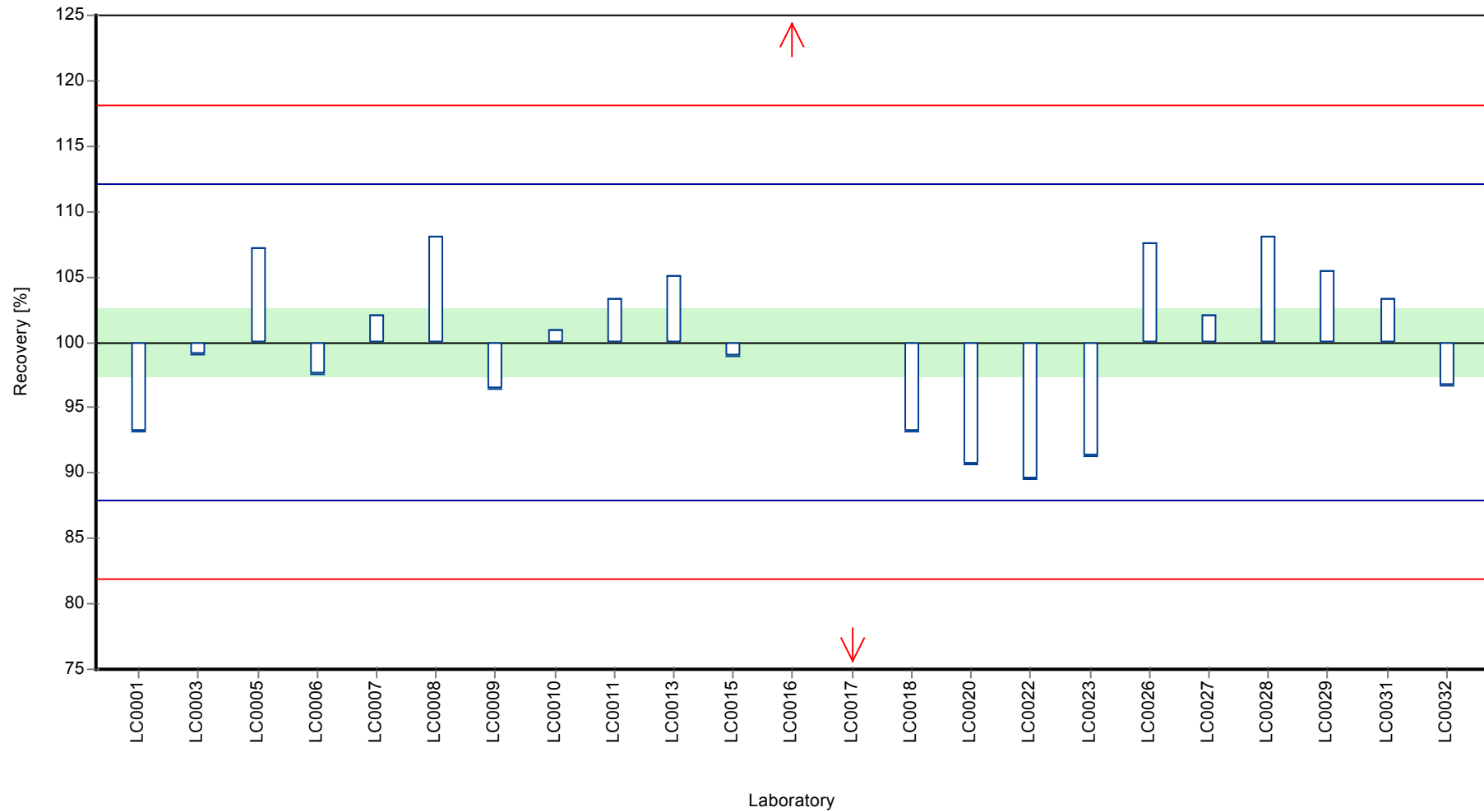
	all results	without outliers	Unit
Mean ± CI (99%)	3,33 ± 0,372	3,33 ± 0,131	µg/l
Minimum	1,5	2,98	µg/l
Maximum	5,23	3,6	µg/l
Standard deviation	0,594	0,201	µg/l
rel. Standard deviation	17,8	6,03	%
n	23	21	-

Graphical presentation of results

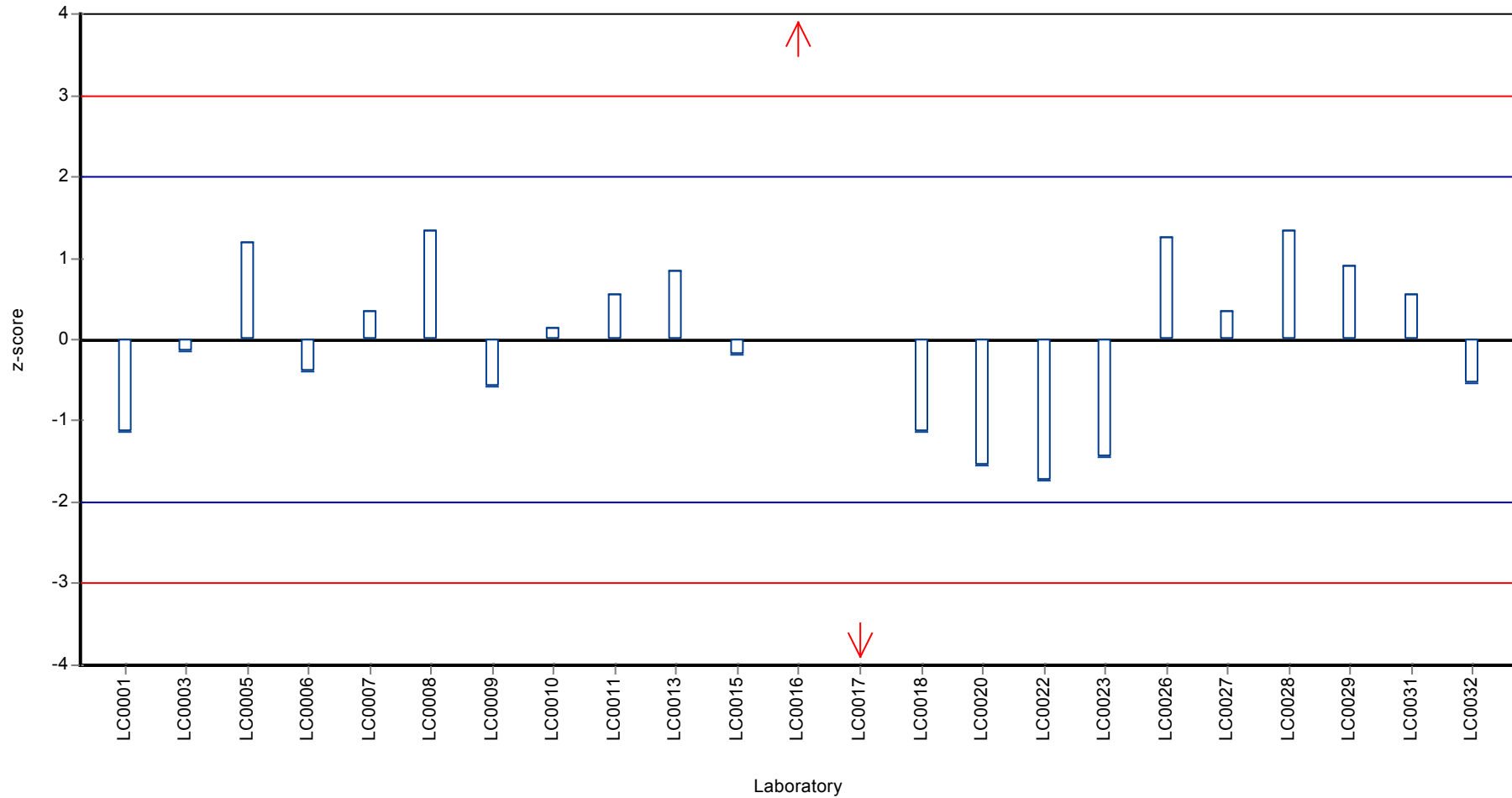
Results



Recovery rate



Z-score



Parameter oriented report

M135 A

Zink

Unit	µg/l
Mean ± CI (99%)	60,3 ± 2,32
Minimum - Maximum	53,7 - 70
Control test value ± U	58,8 ± 4,91

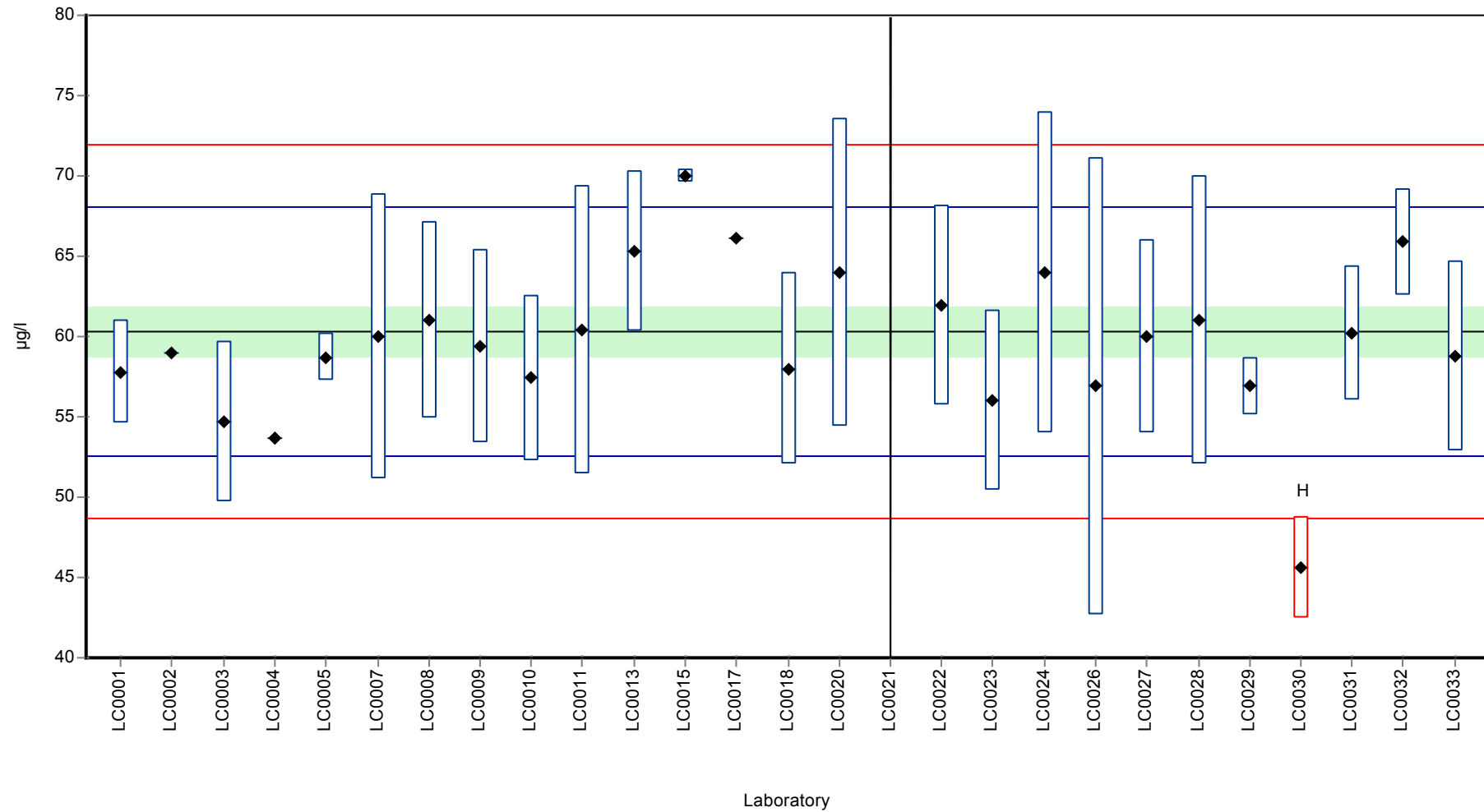
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	57,8	3,2	95,9	-0,64	
LC0002	59	-	97,9	-0,33	
LC0003	54,68	5	90,7	-1,45	
LC0004	53,67	0,0535	89	-1,71	
LC0005	58,7	1,5	97,4	-0,41	
LC0006	-	-	-	-	
LC0007	60	8,9	99,5	-0,07	
LC0008	61	6,1	101	0,18	
LC0009	59,39	6,058	98,5	-0,23	
LC0010	57,4	5,2	95,2	-0,74	
LC0011	60,4	9	100	0,03	
LC0012	-	-	-	-	
LC0013	65,3	5	108	1,3	
LC0014	-	-	-	-	
LC0015	69,9902	0,4111	116	2,51	
LC0016	-	-	-	-	
LC0017	66,13	-	110	1,51	
LC0018	58	6	96,2	-0,59	
LC0019	-	-	-	-	
LC0020	64	9,6	106	0,96	
LC0021	< 500 (LOQ)	-	-	-	
LC0022	61,93	6,2	103	0,42	
LC0023	56	5,6	92,9	-1,11	
LC0024	64	10	106	0,96	
LC0025	-	-	-	-	
LC0026	56,9	14,2	94,4	-0,87	
LC0027	60	6	99,5	-0,07	
LC0028	61	9	101	0,18	
LC0029	56,92	1,767	94,4	-0,87	
LC0030	45,6	3,19	75,6	-3,79	H
LC0031	60,2	4,21	99,9	-0,02	
LC0032	65,9	3,3	109	1,45	
LC0033	58,8	5,9	97,5	-0,38	

Characteristics of parameter

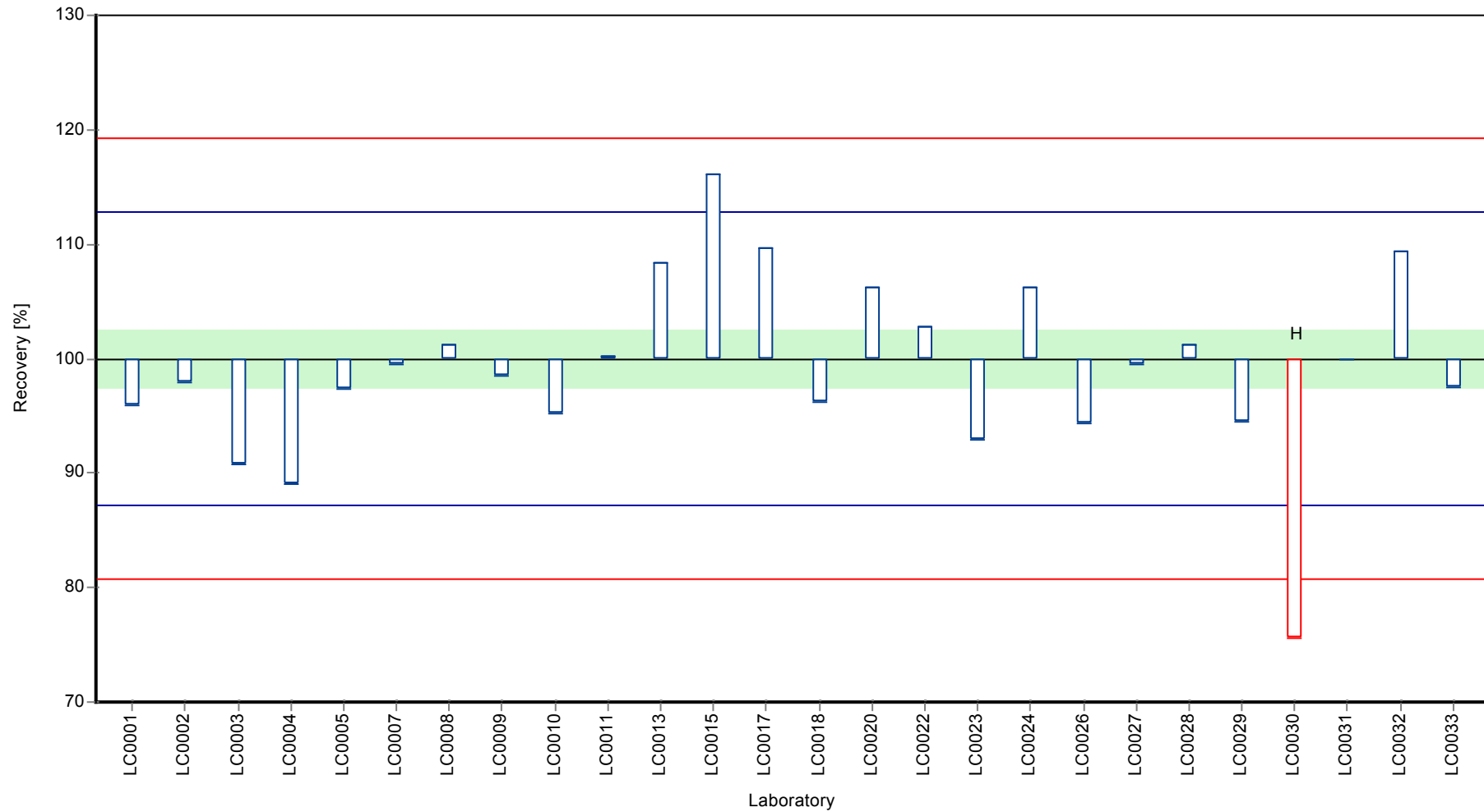
	all results	without outliers	Unit
Mean ± CI (99%)	59,7 ± 2,8	60,3 ± 2,32	µg/l
Minimum	45,6	53,7	µg/l
Maximum	70	70	µg/l
Standard deviation	4,76	3,87	µg/l
rel. Standard deviation	7,98	6,42	%
n	26	25	-

Graphical presentation of results

Results



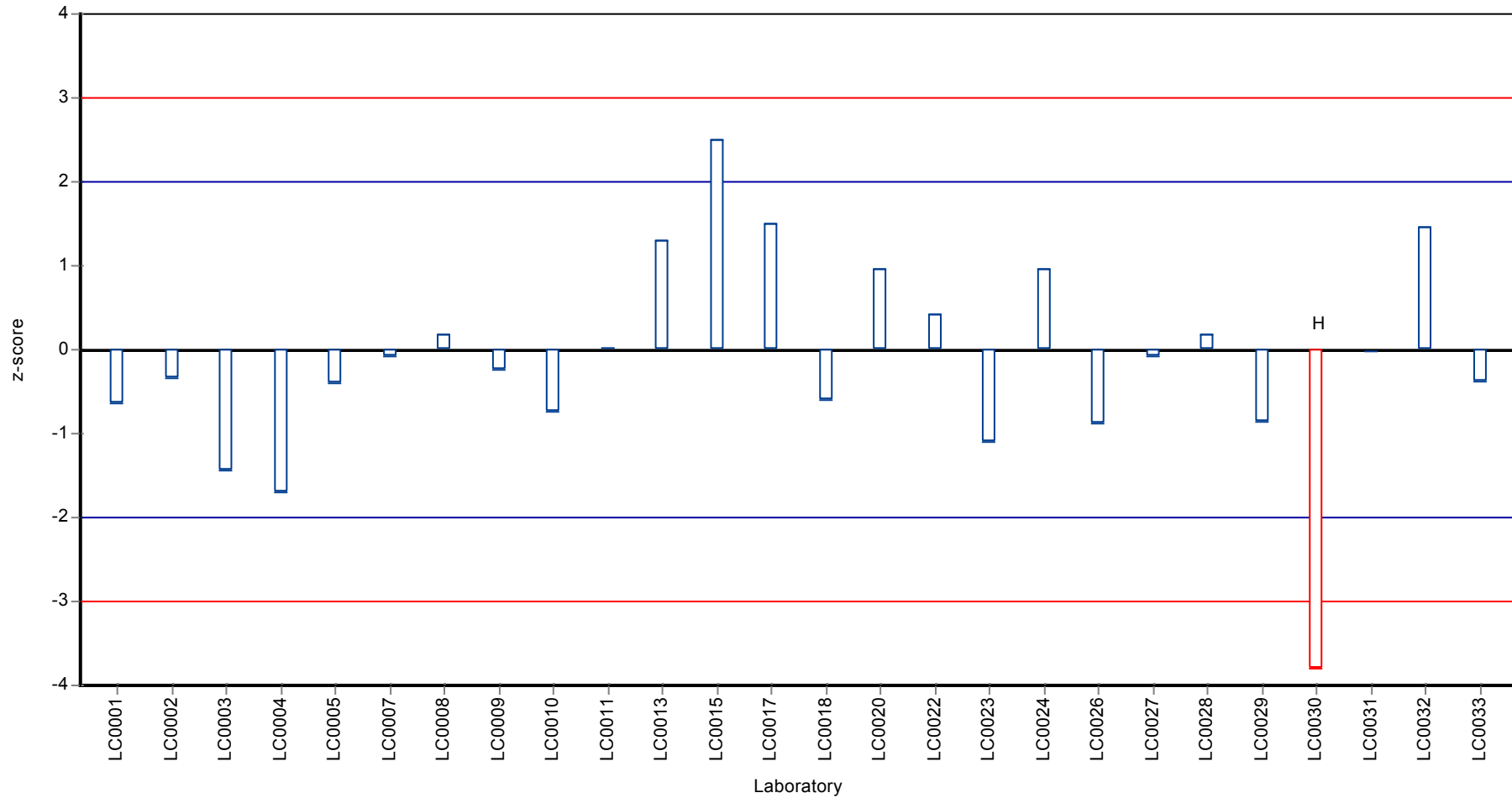
Recovery rate



Parameter oriented report Metalle M135

Sample: M135A, Parameter: Zink

Z-score



Parameter oriented report

M135 B

Zink

Unit	µg/l
Mean ± CI (99%)	87,2 ± 2,96
Minimum - Maximum	80 - 97
Control test value ± U	82,7 ± 2,23

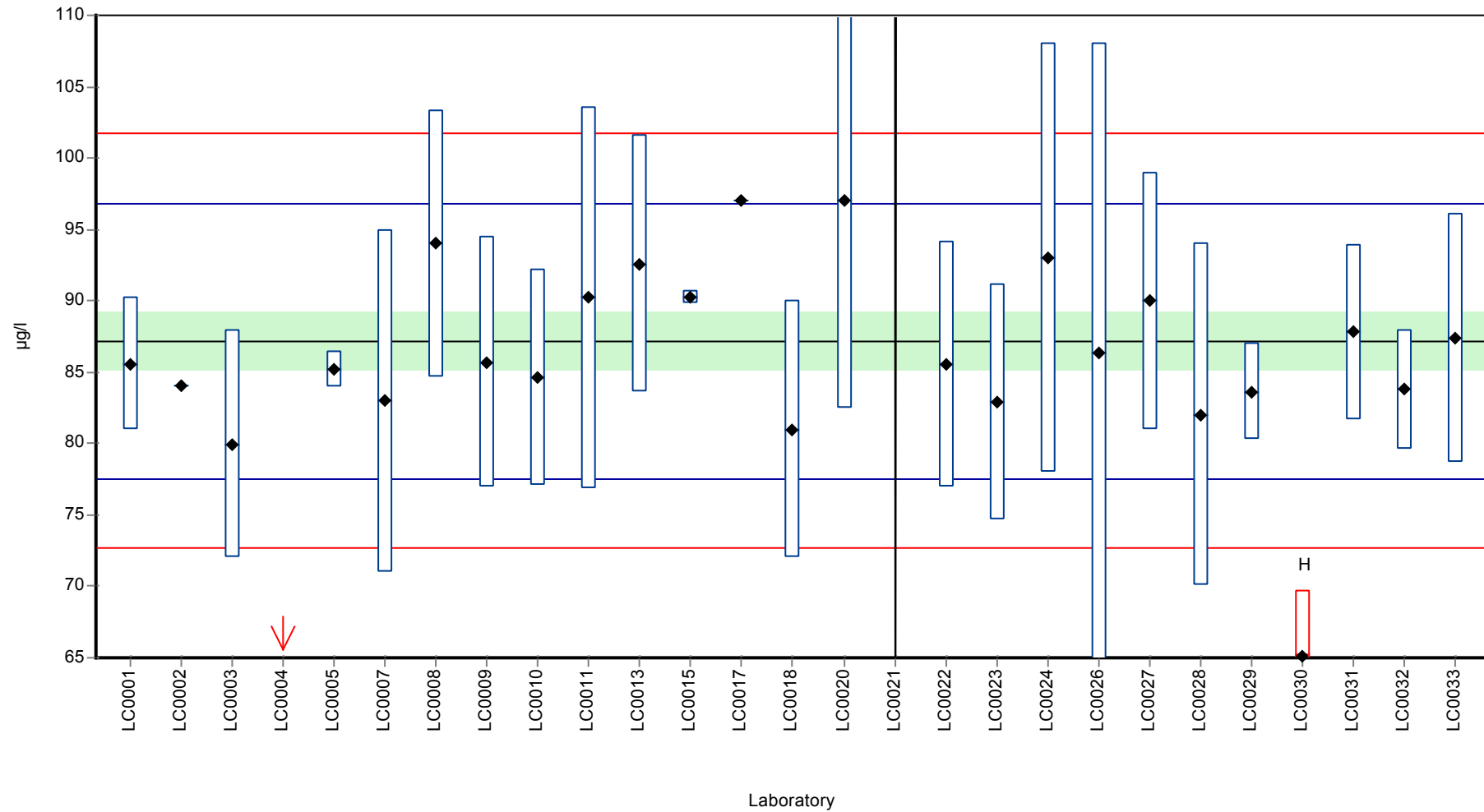
Labcode	Result	± U	Recovery [%]	z-score	Comments
LC0001	85,6	4,6	98,2	-0,33	
LC0002	84	-	96,3	-0,66	
LC0003	79,95	8	91,7	-1,5	
LC0004	65,83	0,3898	75,5	-4,42	H
LC0005	85,2	1,3	97,7	-0,41	
LC0006	-	-	-	-	
LC0007	83	12	95,2	-0,87	
LC0008	94	9,4	108	1,41	
LC0009	85,72	8,743	98,3	-0,31	
LC0010	84,6	7,6	97	-0,54	
LC0011	90,2	13,4	103	0,62	
LC0012	-	-	-	-	
LC0013	92,6	9	106	1,12	
LC0014	-	-	-	-	
LC0015	90,3021	0,4494	104	0,64	
LC0016	-	-	-	-	
LC0017	97,05	-	111	2,04	
LC0018	81	9	92,9	-1,28	
LC0019	-	-	-	-	
LC0020	97	14,6	111	2,03	
LC0021	< 500 (LOQ)	-	-	-	
LC0022	85,58	8,6	98,1	-0,34	
LC0023	82,9	8,3	95,1	-0,89	
LC0024	93	15	107	1,2	
LC0025	-	-	-	-	
LC0026	86,4	21,6	99,1	-0,17	
LC0027	90	9	103	0,58	
LC0028	82	12	94	-1,08	
LC0029	83,63	3,37	95,9	-0,74	
LC0030	65,2	4,56	74,8	-4,55	H
LC0031	87,8	6,15	101	0,13	
LC0032	83,8	4,19	96,1	-0,7	
LC0033	87,4	8,7	100	0,04	

Characteristics of parameter

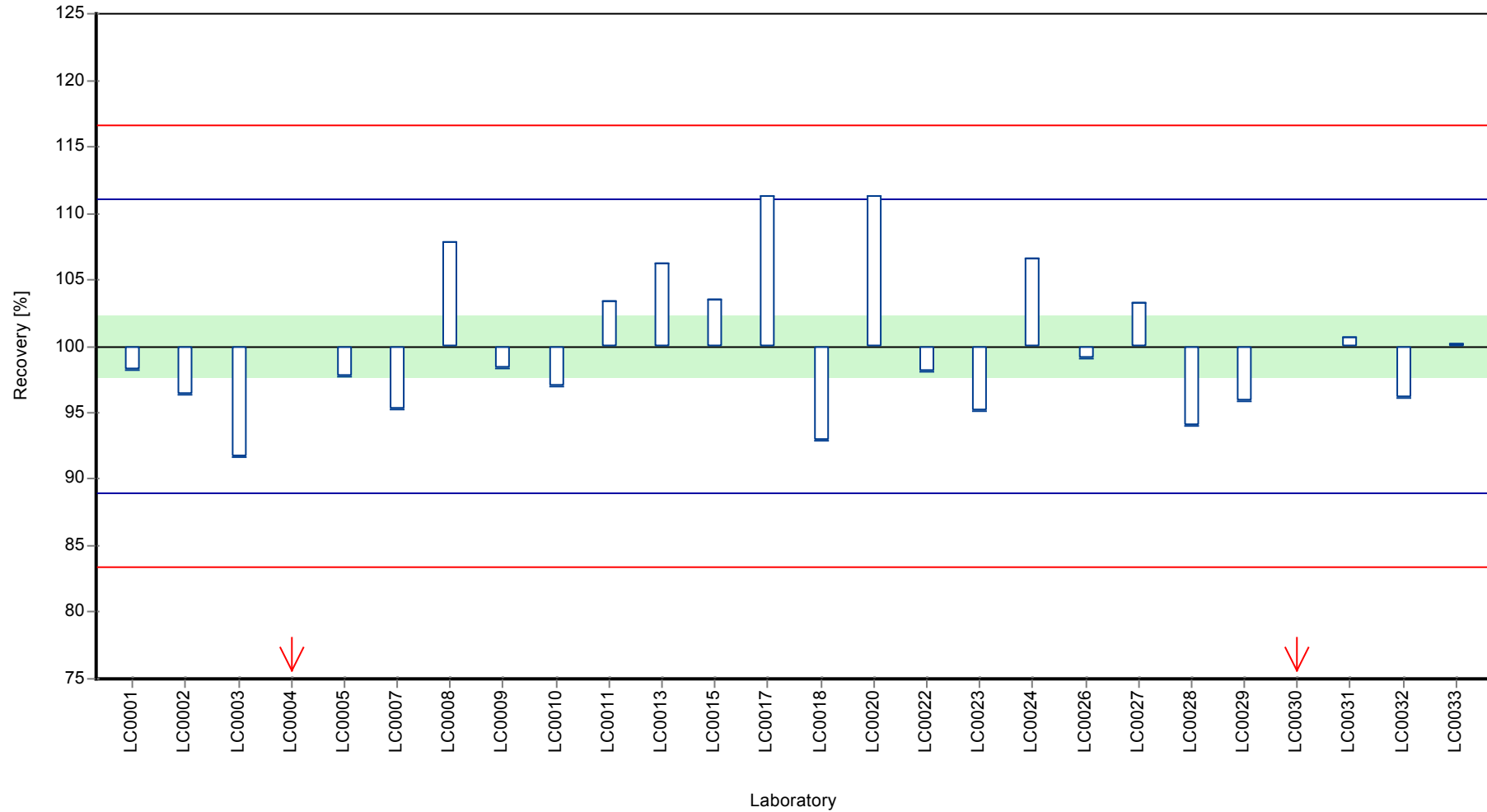
	all results	without outliers	Unit
Mean ± CI (99%)	85,5 ± 4,41	87,2 ± 2,96	µg/l
Minimum	65,2	80	µg/l
Maximum	97	97	µg/l
Standard deviation	7,5	4,83	µg/l
rel. Standard deviation	8,76	5,54	%
n	26	24	-

Graphical presentation of results

Results



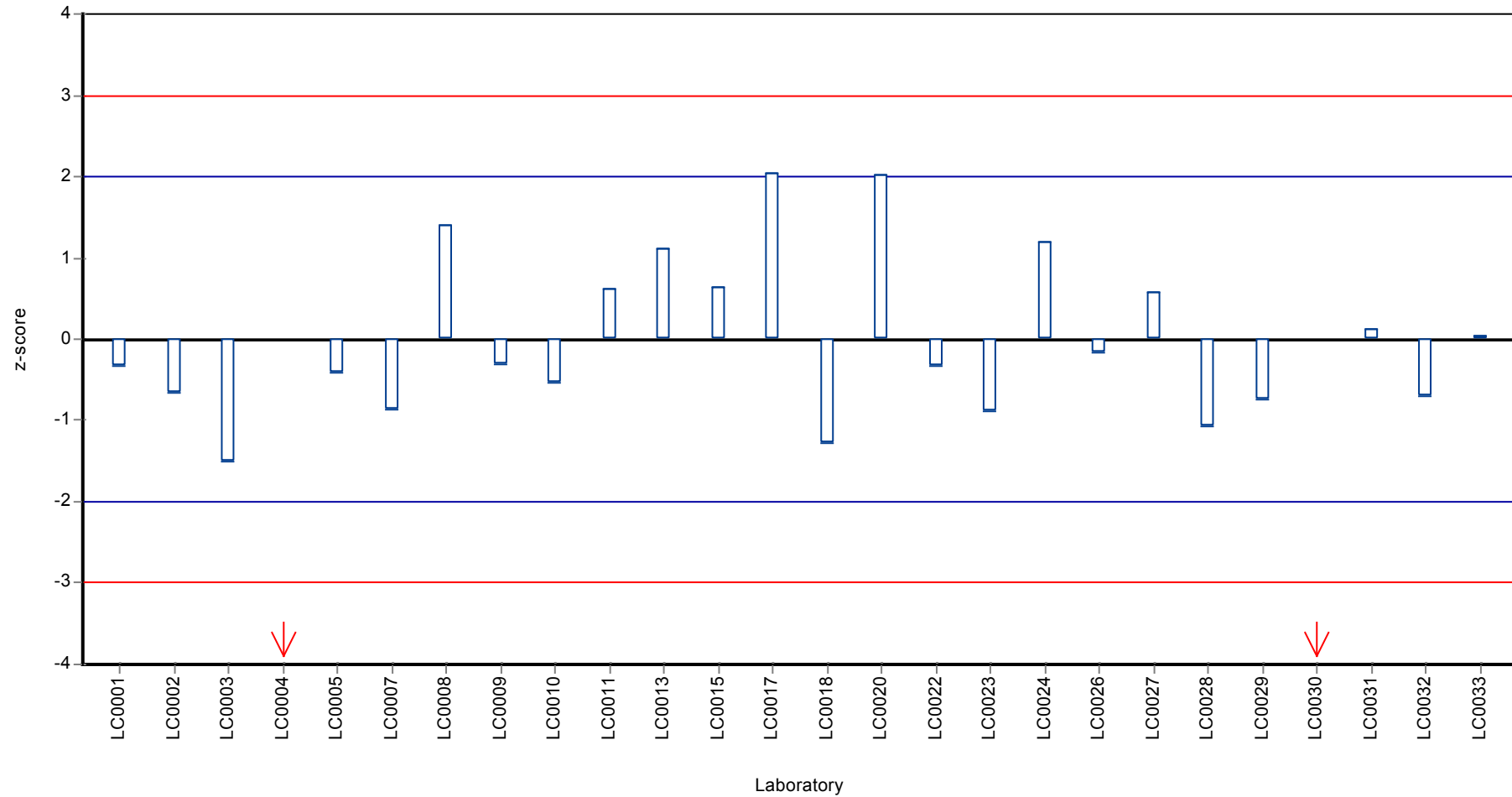
Recovery rate



Parameter oriented report Metalle M135

Sample: M135B, Parameter: Zink

Z-score



8 Laboratory oriented report

The laboratory oriented report is sorted by laboratory code.

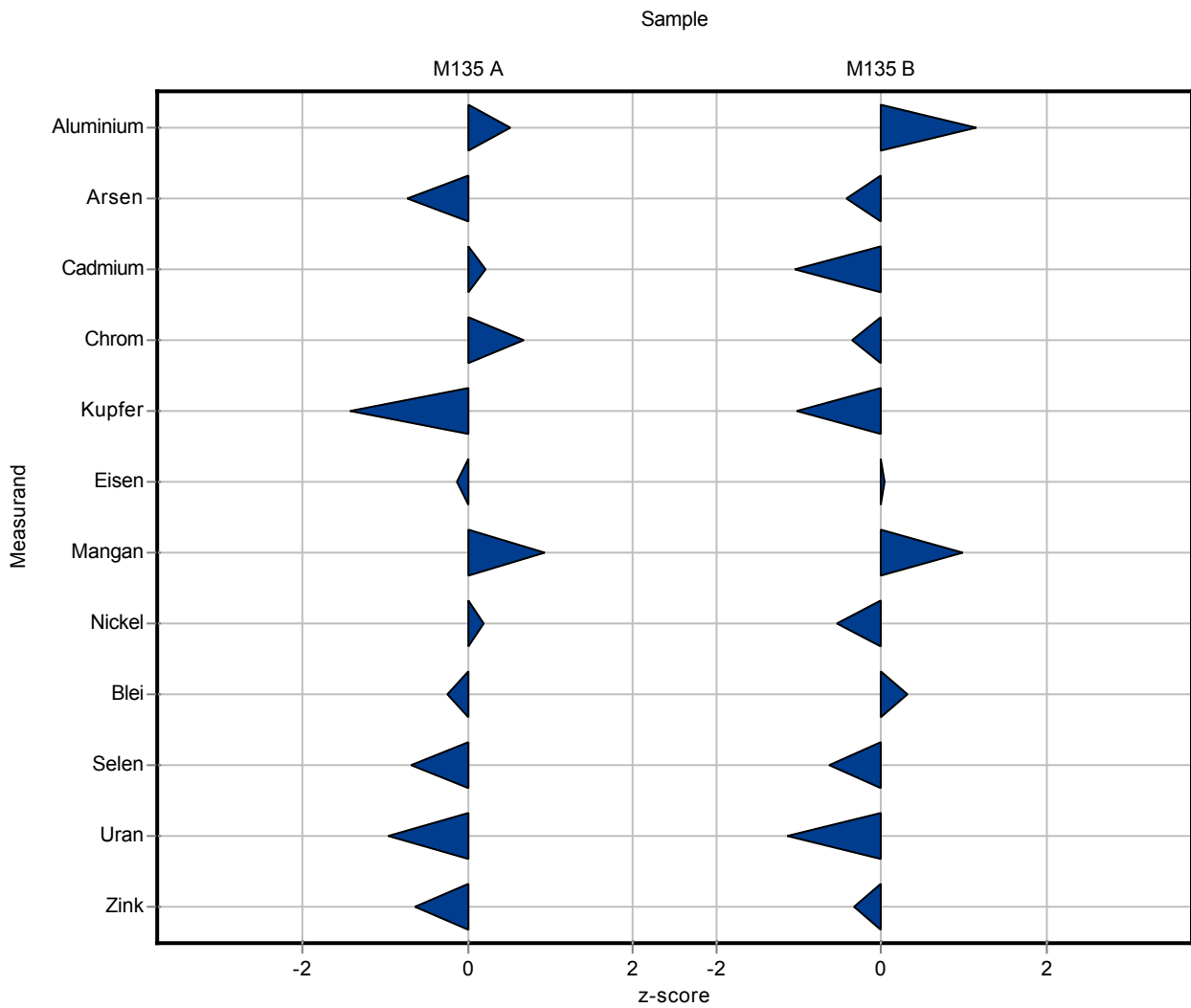
The following results were achieved:

Sample: M135A

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	3,4	± 0,564	3,75	0,16	0,677	110	0,52
Arsen	µg/l	0,608	± 0,0419	0,57	0,03	0,0523	93,8	-0,72
Cadmium	µg/l	0,0234	± 0,00308	0,024	0,004	0,00252	102	0,23
Chrom	µg/l	0,199	± 0,0147	0,21	0,03	0,0163	106	0,68
Kupfer	µg/l	27,2	± 0,723	25,5	0,8	1,18	93,9	-1,41
Eisen	µg/l	26,5	± 0,924	26,3	1,6	1,51	99,2	-0,14
Quecksilber	µg/l	-	± -	<0,01 (LOQ)	-	-	-	-
Mangan	µg/l	5,6	± 0,176	5,86	0,23	0,282	105	0,94
Nickel	µg/l	0,685	± 0,0222	0,69	0,05	0,0222	101	0,2
Blei	µg/l	0,436	± 0,0538	0,42	0,05	0,0647	96,3	-0,25
Selen	µg/l	0,139	± 0,0179	0,129	0,004	0,0146	92,9	-0,68
Uran	µg/l	1,08	± 0,0479	1,01	0,02	0,0714	93,6	-0,96
Zink	µg/l	60,3	± 2,32	57,8	3,2	3,87	95,9	-0,64

Sample: M135B

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	0,633	± 0,265	0,88	0,06	0,216	139	1,14
Arsen	µg/l	0,139	± 0,0173	0,132	0,006	0,0164	95,1	-0,42
Cadmium	µg/l	0,0463	± 0,00228	0,044	0,004	0,00215	95,1	-1,05
Chrom	µg/l	2,08	± 0,0671	2,04	0,09	0,105	98,2	-0,36
Kupfer	µg/l	4,74	± 0,195	4,42	0,22	0,312	93,2	-1,03
Eisen	µg/l	18,9	± 0,838	19	0,8	1,37	100	0,04
Quecksilber	µg/l	-	± -	<0,01 (LOQ)	-	-	-	-
Mangan	µg/l	98,5	± 3,07	103,6	5,6	5,22	105	0,98
Nickel	µg/l	2,38	± 0,0848	2,32	0,1	0,117	97,4	-0,53
Blei	µg/l	1,01	± 0,0455	1,03	0,06	0,0625	102	0,31
Selen	µg/l	2,54	± 0,218	2,34	0,09	0,316	92	-0,64
Uran	µg/l	3,33	± 0,131	3,1	0,03	0,201	93,1	-1,14
Zink	µg/l	87,2	± 2,96	85,6	4,6	4,83	98,2	-0,33



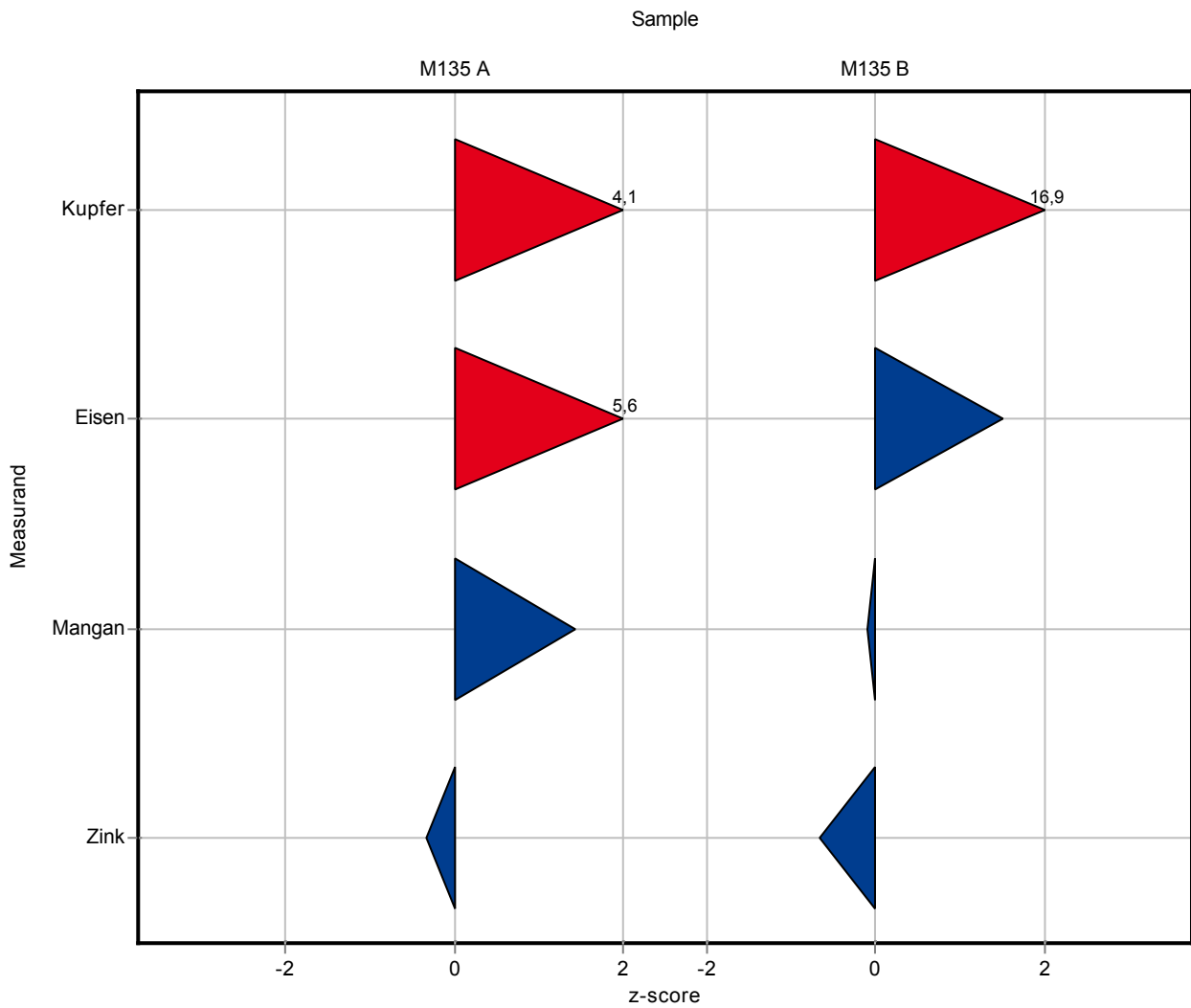
The following results were achieved:

Sample: M135A

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	3,4 ± 0,564	<5 (LOQ)	-	0,677	-	-
Arsen	µg/l	0,608 ± 0,0419	-	-	0,0523	-	-
Cadmium	µg/l	0,0234 ± 0,00308	-	-	0,00252	-	-
Chrom	µg/l	0,199 ± 0,0147	-	-	0,0163	-	-
Kupfer	µg/l	27,2 ± 0,723	32	-	1,18	118	4,1
Eisen	µg/l	26,5 ± 0,924	35	-	1,51	132	5,63
Quecksilber	µg/l	- ± -	-	-	-	-	-
Mangan	µg/l	5,6 ± 0,176	6	-	0,282	107	1,43
Nickel	µg/l	0,685 ± 0,0222	-	-	0,0222	-	-
Blei	µg/l	0,436 ± 0,0538	-	-	0,0647	-	-
Selen	µg/l	0,139 ± 0,0179	-	-	0,0146	-	-
Uran	µg/l	1,08 ± 0,0479	-	-	0,0714	-	-
Zink	µg/l	60,3 ± 2,32	59	-	3,87	97,9	-0,33

Sample: M135B

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	0,633 ± 0,265	<5 (LOQ)	-	0,216	-	-
Arsen	µg/l	0,139 ± 0,0173	-	-	0,0164	-	-
Cadmium	µg/l	0,0463 ± 0,00228	-	-	0,00215	-	-
Chrom	µg/l	2,08 ± 0,0671	-	-	0,105	-	-
Kupfer	µg/l	4,74 ± 0,195	10	-	0,312	211	16,9
Eisen	µg/l	18,9 ± 0,838	21	-	1,37	111	1,5
Quecksilber	µg/l	- ± -	-	-	-	-	-
Mangan	µg/l	98,5 ± 3,07	98	-	5,22	99,5	-0,1
Nickel	µg/l	2,38 ± 0,0848	-	-	0,117	-	-
Blei	µg/l	1,01 ± 0,0455	-	-	0,0625	-	-
Selen	µg/l	2,54 ± 0,218	-	-	0,316	-	-
Uran	µg/l	3,33 ± 0,131	-	-	0,201	-	-
Zink	µg/l	87,2 ± 2,96	84	-	4,83	96,3	-0,66



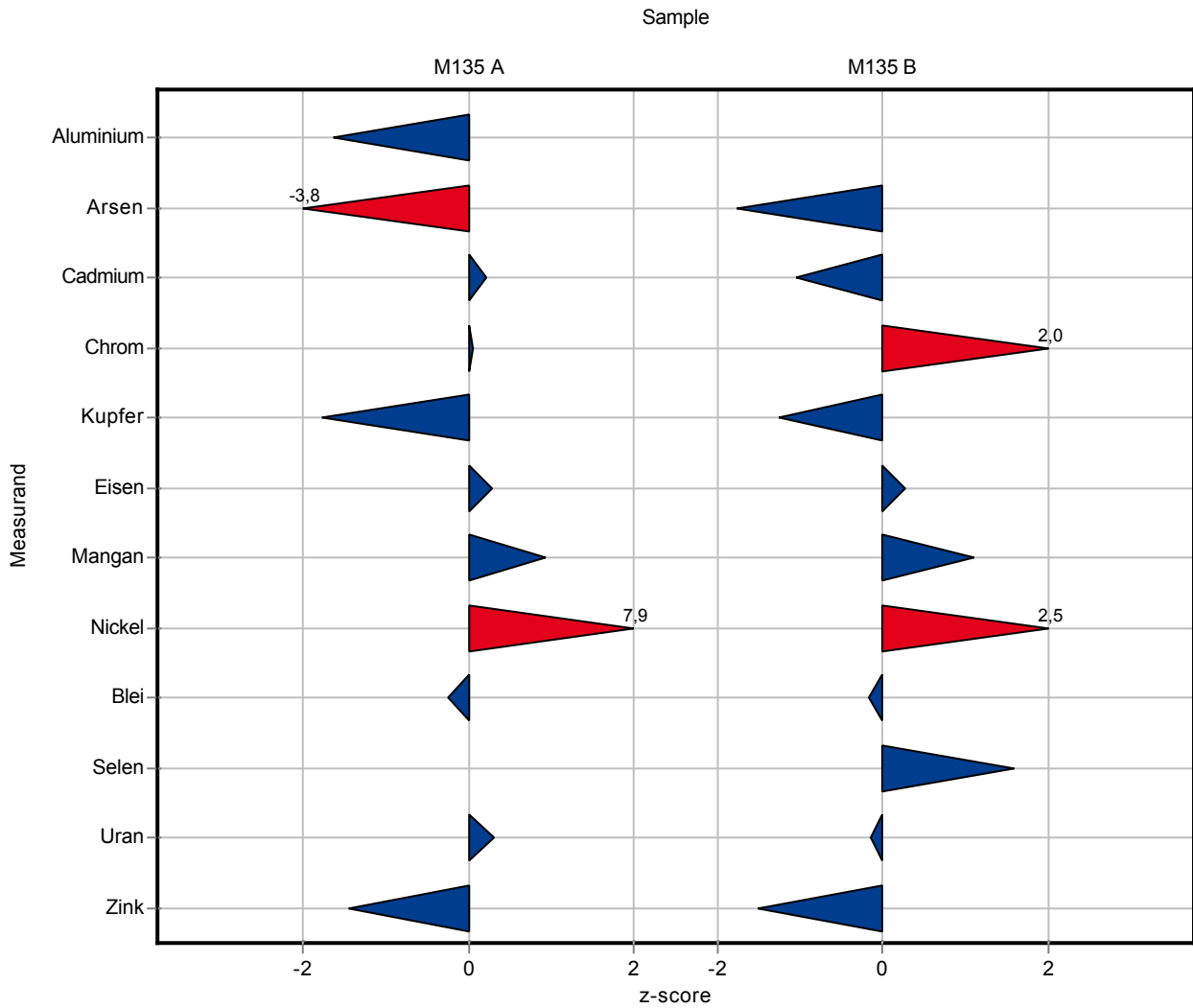
The following results were achieved:

Sample: M135A

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	3,4 ± 0,564	2,29	1	0,677	67,4	-1,64
Arsen	µg/l	0,608 ± 0,0419	0,41	0,1	0,0523	67,5	-3,78
Cadmium	µg/l	0,0234 ± 0,00308	0,024	0,005	0,00252	102	0,23
Chrom	µg/l	0,199 ± 0,0147	0,2	0,01	0,0163	101	0,07
Kupfer	µg/l	27,2 ± 0,723	25,09	2,5	1,18	92,4	-1,76
Eisen	µg/l	26,5 ± 0,924	26,93	2,5	1,51	102	0,28
Quecksilber	µg/l	- ± -	<0,0005	-	-	-	-
Mangan	µg/l	5,6 ± 0,176	5,86	0,6	0,282	105	0,94
Nickel	µg/l	0,685 ± 0,0222	0,86	0,2	0,0222	125	7,86
Blei	µg/l	0,436 ± 0,0538	0,42	0,06	0,0647	96,3	-0,25
Selen	µg/l	0,139 ± 0,0179	<0,5 (LOQ)	-	0,0146	-	-
Uran	µg/l	1,08 ± 0,0479	1,1	0,1	0,0714	102	0,3
Zink	µg/l	60,3 ± 2,32	54,68	5	3,87	90,7	-1,45

Sample: M135B

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	0,633 ± 0,265	<2 (LOQ)	-	0,216	-	-
Arsen	µg/l	0,139 ± 0,0173	0,11	0,1	0,0164	79,2	-1,76
Cadmium	µg/l	0,0463 ± 0,00228	0,044	0,005	0,00215	95,1	-1,05
Chrom	µg/l	2,08 ± 0,0671	2,29	0,2	0,105	110	2,03
Kupfer	µg/l	4,74 ± 0,195	4,35	0,5	0,312	91,8	-1,25
Eisen	µg/l	18,9 ± 0,838	19,33	2	1,37	102	0,28
Quecksilber	µg/l	- ± -	<0,0005	-	-	-	-
Mangan	µg/l	98,5 ± 3,07	104,22	10	5,22	106	1,1
Nickel	µg/l	2,38 ± 0,0848	2,67	0,3	0,117	112	2,47
Blei	µg/l	1,01 ± 0,0455	1	0,1	0,0625	98,9	-0,17
Selen	µg/l	2,54 ± 0,218	3,04	0,5	0,316	120	1,57
Uran	µg/l	3,33 ± 0,131	3,3	0,3	0,201	99,1	-0,15
Zink	µg/l	87,2 ± 2,96	79,95	8	4,83	91,7	-1,5



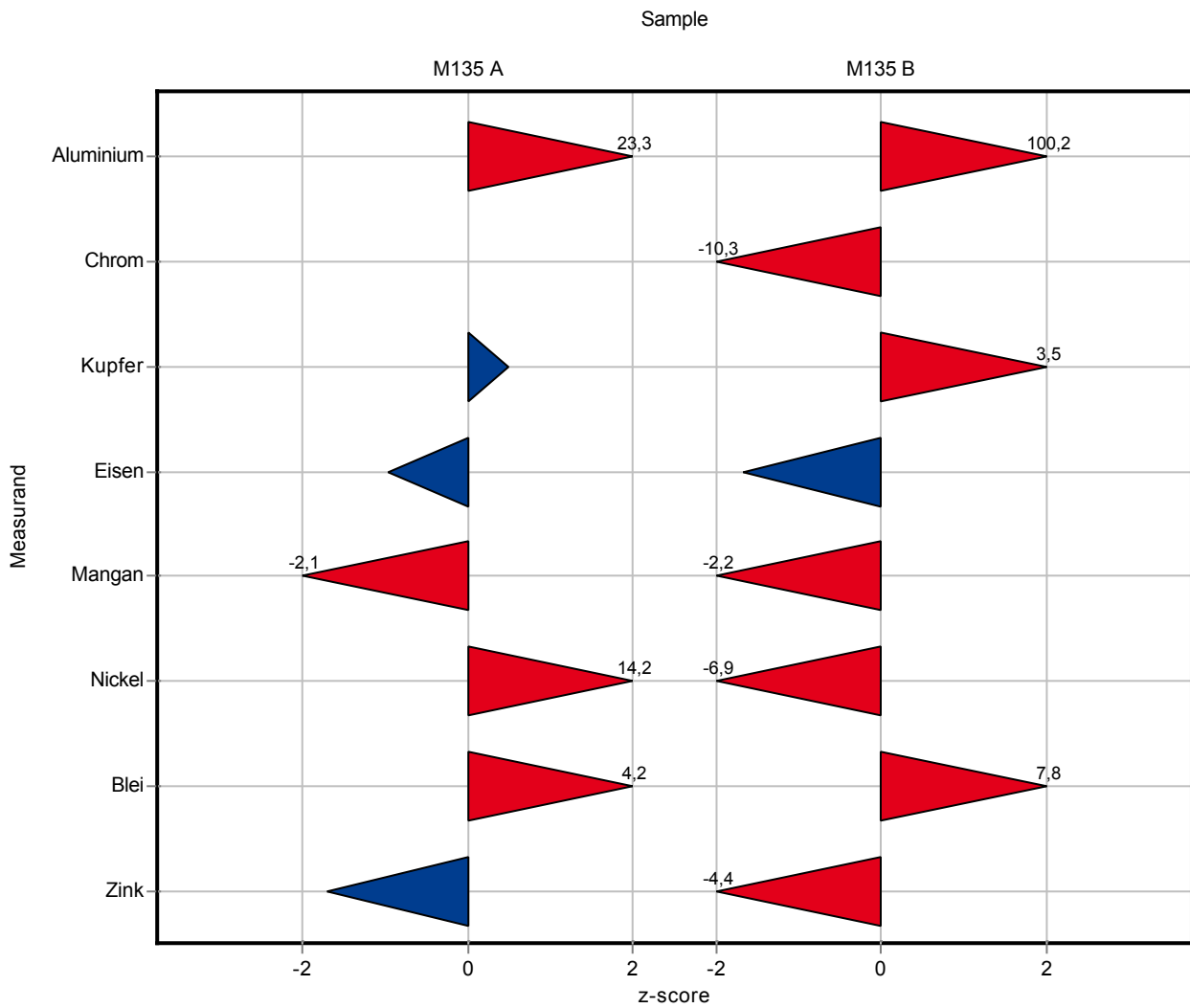
The following results were achieved:

Sample: M135A

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	3,4 ± 0,564	19,17	0,0426	0,677	564	23,3
Arsen	µg/l	0,608 ± 0,0419	-	-	0,0523	-	-
Cadmium	µg/l	0,0234 ± 0,00308	-	-	0,00252	-	-
Chrom	µg/l	0,199 ± 0,0147	-	-	0,0163	-	-
Kupfer	µg/l	27,2 ± 0,723	27,75	0,0761	1,18	102	0,5
Eisen	µg/l	26,5 ± 0,924	25,08	0,0411	1,51	94,6	-0,95
Quecksilber	µg/l	- ± -	-	-	-	-	-
Mangan	µg/l	5,6 ± 0,176	5	-	0,282	89,3	-2,12
Nickel	µg/l	0,685 ± 0,0222	1	-	0,0222	146	14,2
Blei	µg/l	0,436 ± 0,0538	0,71	-	0,0647	163	4,24
Selen	µg/l	0,139 ± 0,0179	-	-	0,0146	-	-
Uran	µg/l	1,08 ± 0,0479	-	-	0,0714	-	-
Zink	µg/l	60,3 ± 2,32	53,67	0,0535	3,87	89	-1,71

Sample: M135B

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	0,633 ± 0,265	22,33	0,0462	0,216	3530	100
Arsen	µg/l	0,139 ± 0,0173	-	-	0,0164	-	-
Cadmium	µg/l	0,0463 ± 0,00228	-	-	0,00215	-	-
Chrom	µg/l	2,08 ± 0,0671	1	1,0444	0,105	48,1	-10,3
Kupfer	µg/l	4,74 ± 0,195	5,83	0,3531	0,312	123	3,49
Eisen	µg/l	18,9 ± 0,838	16,67	0,0591	1,37	88	-1,66
Quecksilber	µg/l	- ± -	-	-	-	-	-
Mangan	µg/l	98,5 ± 3,07	86,92	0,0601	5,22	88,2	-2,22
Nickel	µg/l	2,38 ± 0,0848	1,58	0,6504	0,117	66,3	-6,88
Blei	µg/l	1,01 ± 0,0455	1,5	0,7302	0,0625	148	7,83
Selen	µg/l	2,54 ± 0,218	-	-	0,316	-	-
Uran	µg/l	3,33 ± 0,131	-	-	0,201	-	-
Zink	µg/l	87,2 ± 2,96	65,83	0,3898	4,83	75,5	-4,42



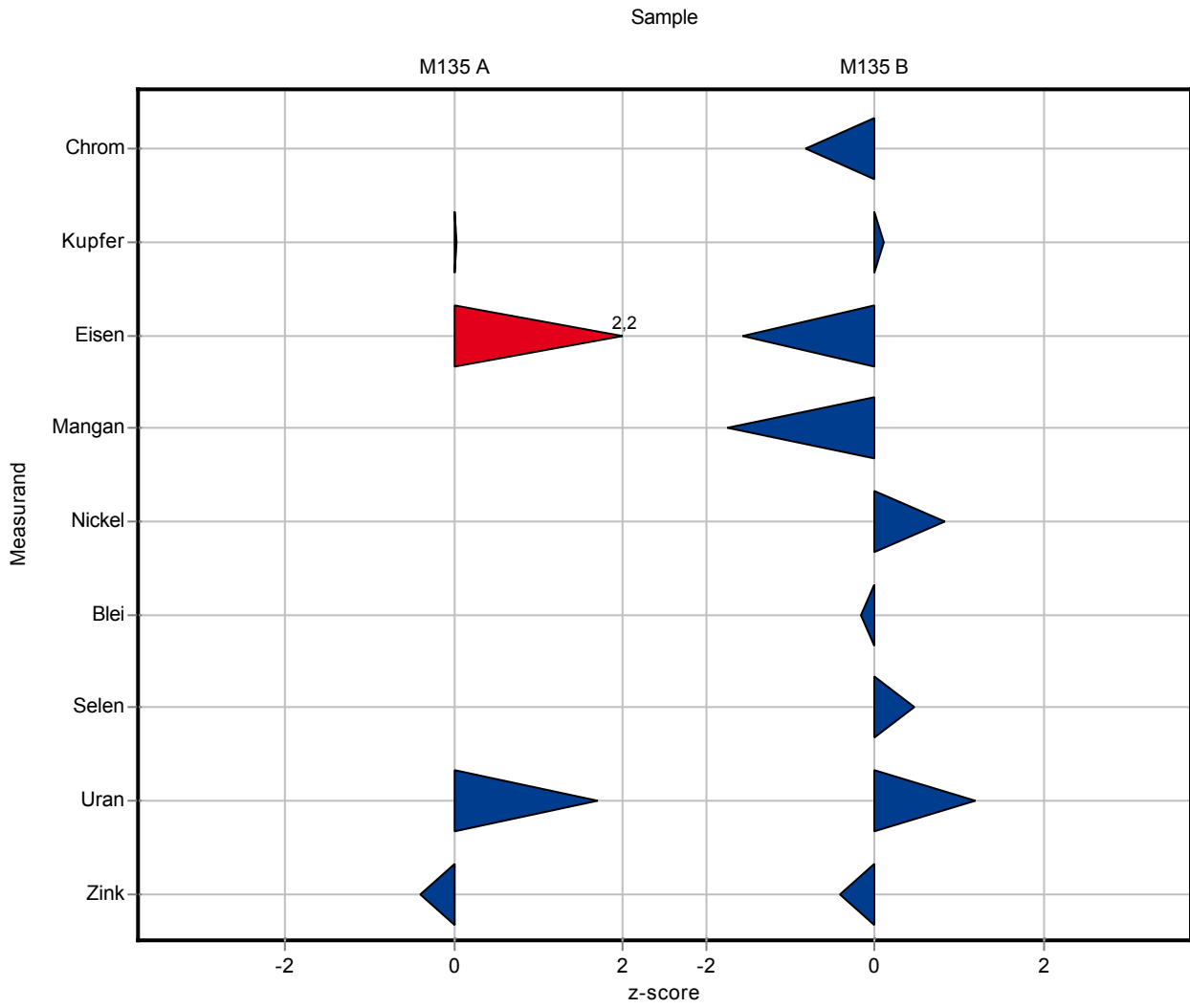
The following results were achieved:

Sample: M135A

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	3,4	± 0,564	<10 (LOQ)	-	0,677	-	-
Arsen	µg/l	0,608	± 0,0419	<1 (LOQ)	-	0,0523	-	-
Cadmium	µg/l	0,0234	± 0,00308	<0,1 (LOQ)	-	0,00252	-	-
Chrom	µg/l	0,199	± 0,0147	<1 (LOQ)	-	0,0163	-	-
Kupfer	µg/l	27,2	± 0,723	27,2	0,33	1,18	100	0,03
Eisen	µg/l	26,5	± 0,924	29,8	0,5	1,51	112	2,18
Quecksilber	µg/l	-	± -	<0,2 (LOQ)	-	-	-	-
Mangan	µg/l	5,6	± 0,176	<10 (LOQ)	-	0,282	-	-
Nickel	µg/l	0,685	± 0,0222	<1 (LOQ)	-	0,0222	-	-
Blei	µg/l	0,436	± 0,0538	<1 (LOQ)	-	0,0647	-	-
Selen	µg/l	0,139	± 0,0179	<1 (LOQ)	-	0,0146	-	-
Uran	µg/l	1,08	± 0,0479	1,2	0,07	0,0714	111	1,7
Zink	µg/l	60,3	± 2,32	58,7	1,5	3,87	97,4	-0,41

Sample: M135B

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	0,633	± 0,265	<1,06 (LOD)	-	0,216	-	-
Arsen	µg/l	0,139	± 0,0173	<1 (LOQ)	-	0,0164	-	-
Cadmium	µg/l	0,0463	± 0,00228	<0,1 (LOQ)	-	0,00215	-	-
Chrom	µg/l	2,08	± 0,0671	1,99	0,2	0,105	95,8	-0,83
Kupfer	µg/l	4,74	± 0,195	4,77	0,05	0,312	101	0,09
Eisen	µg/l	18,9	± 0,838	16,8	0,54	1,37	88,7	-1,57
Quecksilber	µg/l	-	± -	<0,2 (LOQ)	-	-	-	-
Mangan	µg/l	98,5	± 3,07	89,4	0,35	5,22	90,8	-1,74
Nickel	µg/l	2,38	± 0,0848	2,48	0,11	0,117	104	0,84
Blei	µg/l	1,01	± 0,0455	1	0,1	0,0625	98,9	-0,17
Selen	µg/l	2,54	± 0,218	2,69	0,21	0,316	106	0,47
Uran	µg/l	3,33	± 0,131	3,57	0,06	0,201	107	1,2
Zink	µg/l	87,2	± 2,96	85,2	1,3	4,83	97,7	-0,41



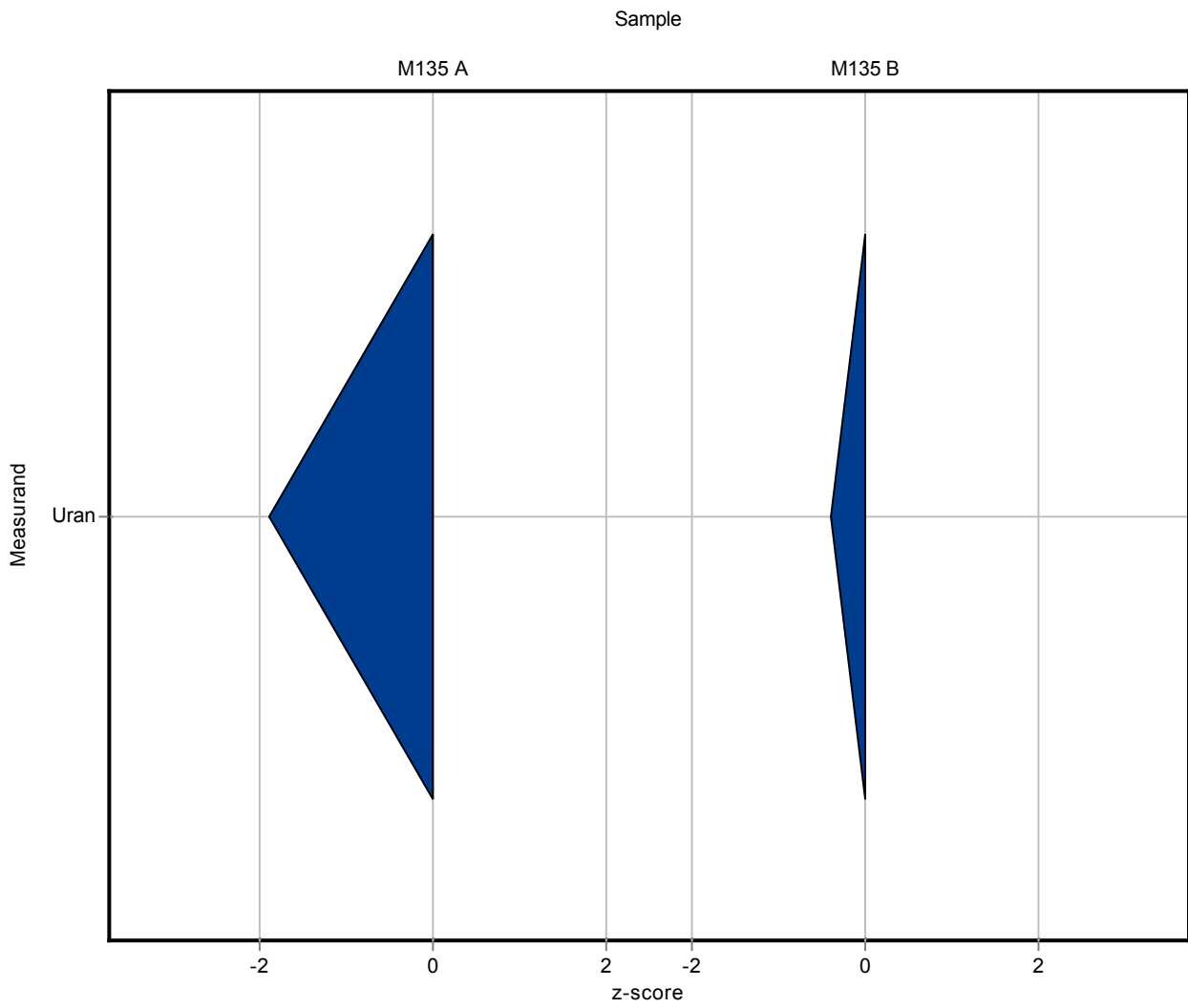
The following results were achieved:

Sample: M135A

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	3,4	± 0,564	<10 (LOQ)	-	0,677	-	-
Arsen	µg/l	0,608	± 0,0419	<1 (LOQ)	-	0,0523	-	-
Cadmium	µg/l	0,0234	± 0,00308	-	-	0,00252	-	-
Chrom	µg/l	0,199	± 0,0147	-	-	0,0163	-	-
Kupfer	µg/l	27,2	± 0,723	<100 (LOQ)	-	1,18	-	-
Eisen	µg/l	26,5	± 0,924	-	-	1,51	-	-
Quecksilber	µg/l	-	± -	-	-	-	-	-
Mangan	µg/l	5,6	± 0,176	-	-	0,282	-	-
Nickel	µg/l	0,685	± 0,0222	-	-	0,0222	-	-
Blei	µg/l	0,436	± 0,0538	-	-	0,0647	-	-
Selen	µg/l	0,139	± 0,0179	-	-	0,0146	-	-
Uran	µg/l	1,08	± 0,0479	0,943	-	0,0714	87,4	-1,9
Zink	µg/l	60,3	± 2,32	-	-	3,87	-	-

Sample: M135B

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	0,633	± 0,265	<10 (LOQ)	-	0,216	-	-
Arsen	µg/l	0,139	± 0,0173	<1 (LOQ)	-	0,0164	-	-
Cadmium	µg/l	0,0463	± 0,00228	-	-	0,00215	-	-
Chrom	µg/l	2,08	± 0,0671	-	-	0,105	-	-
Kupfer	µg/l	4,74	± 0,195	<100 (LOQ)	-	0,312	-	-
Eisen	µg/l	18,9	± 0,838	-	-	1,37	-	-
Quecksilber	µg/l	-	± -	-	-	-	-	-
Mangan	µg/l	98,5	± 3,07	-	-	5,22	-	-
Nickel	µg/l	2,38	± 0,0848	-	-	0,117	-	-
Blei	µg/l	1,01	± 0,0455	-	-	0,0625	-	-
Selen	µg/l	2,54	± 0,218	-	-	0,316	-	-
Uran	µg/l	3,33	± 0,131	3,249	-	0,201	97,6	-0,4
Zink	µg/l	87,2	± 2,96	-	-	4,83	-	-



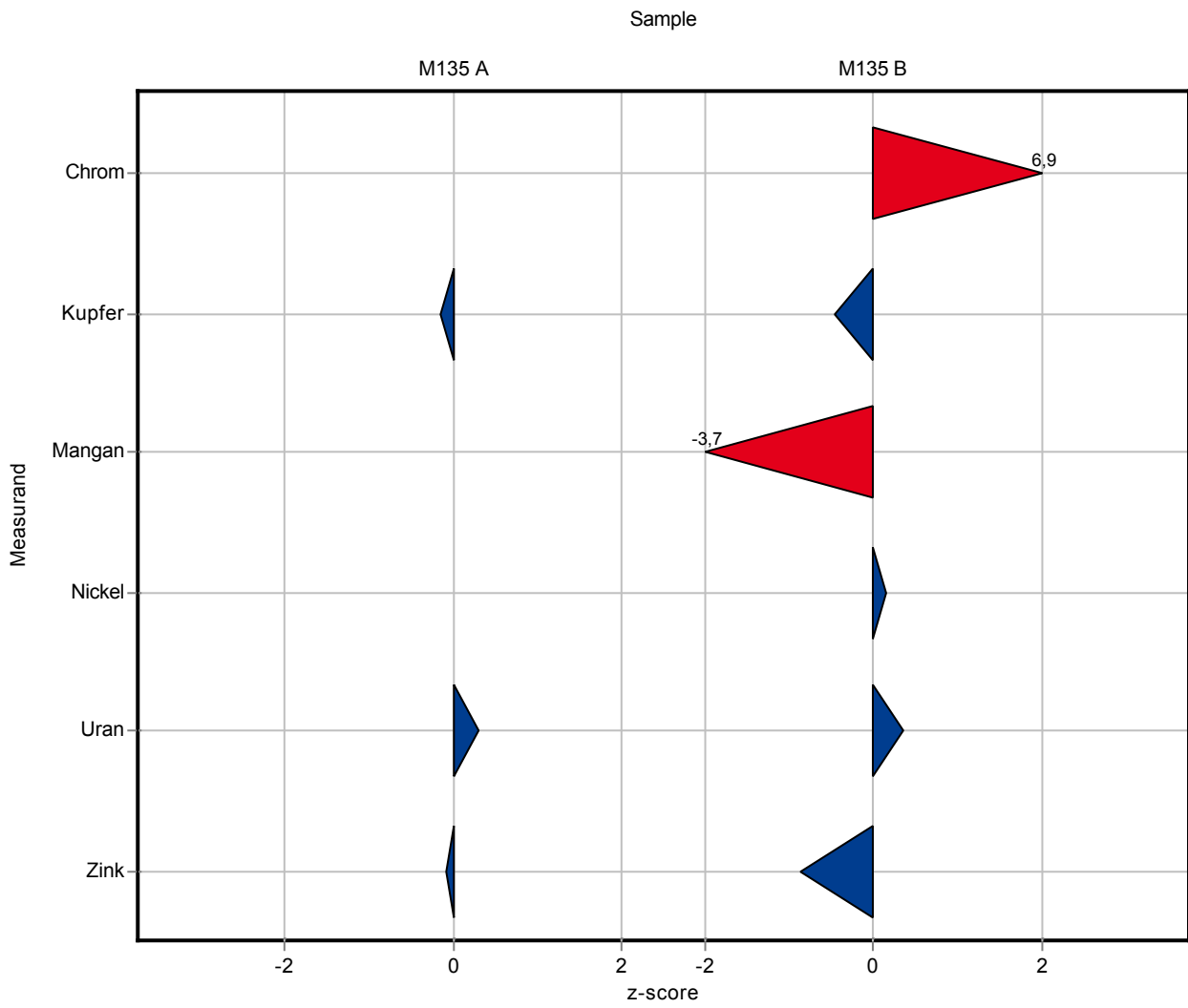
The following results were achieved:

Sample: M135A

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	3,4	± 0,564	<10 (LOQ)	-	0,677	-	-
Arsen	µg/l	0,608	± 0,0419	<1 (LOQ)	-	0,0523	-	-
Cadmium	µg/l	0,0234	± 0,00308	<0,2 (LOQ)	-	0,00252	-	-
Chrom	µg/l	0,199	± 0,0147	<1 (LOQ)	-	0,0163	-	-
Kupfer	µg/l	27,2	± 0,723	27	4,1	1,18	99,4	-0,14
Eisen	µg/l	26,5	± 0,924	<20 (LOQ)	-	1,51	-	-
Quecksilber	µg/l	-	± -	<0,1 (LOQ)	-	-	-	-
Mangan	µg/l	5,6	± 0,176	<5 (LOQ)	-	0,282	-	-
Nickel	µg/l	0,685	± 0,0222	<1 (LOQ)	-	0,0222	-	-
Blei	µg/l	0,436	± 0,0538	<1 (LOQ)	-	0,0647	-	-
Selen	µg/l	0,139	± 0,0179	-	-	0,0146	-	-
Uran	µg/l	1,08	± 0,0479	1,1	0,16	0,0714	102	0,3
Zink	µg/l	60,3	± 2,32	60	8,9	3,87	99,5	-0,07

Sample: M135B

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	0,633	± 0,265	<10 (LOQ)	-	0,216	-	-
Arsen	µg/l	0,139	± 0,0173	<1 (LOQ)	-	0,0164	-	-
Cadmium	µg/l	0,0463	± 0,00228	<0,2 (LOQ)	-	0,00215	-	-
Chrom	µg/l	2,08	± 0,0671	2,8	0,42	0,105	135	6,88
Kupfer	µg/l	4,74	± 0,195	4,6	0,69	0,312	97	-0,45
Eisen	µg/l	18,9	± 0,838	<20 (LOQ)	-	1,37	-	-
Quecksilber	µg/l	-	± -	<0,1 (LOQ)	-	-	-	-
Mangan	µg/l	98,5	± 3,07	79	12	5,22	80,2	-3,74
Nickel	µg/l	2,38	± 0,0848	2,4	0,36	0,117	101	0,15
Blei	µg/l	1,01	± 0,0455	<1 (LOQ)	-	0,0625	-	-
Selen	µg/l	2,54	± 0,218	-	-	0,316	-	-
Uran	µg/l	3,33	± 0,131	3,4	0,51	0,201	102	0,35
Zink	µg/l	87,2	± 2,96	83	12	4,83	95,2	-0,87



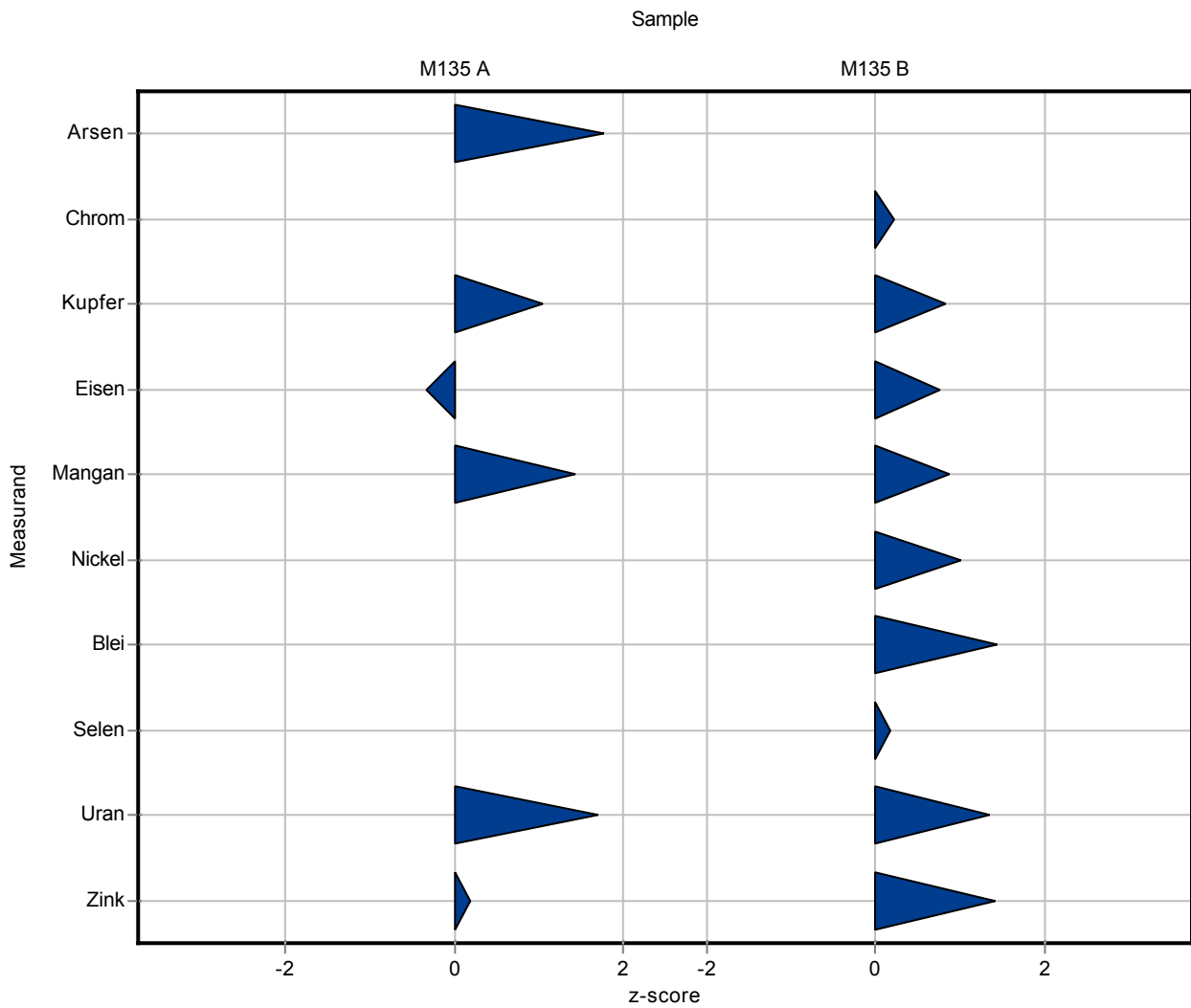
The following results were achieved:

Sample: M135A

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	3,4	± 0,564	<5 (LOQ)	-	0,677	-	-
Arsen	µg/l	0,608	± 0,0419	0,7	0,084	0,0523	115	1,77
Cadmium	µg/l	0,0234	± 0,00308	<0,1 (LOQ)	-	0,00252	-	-
Chrom	µg/l	0,199	± 0,0147	<0,5 (LOQ)	-	0,0163	-	-
Kupfer	µg/l	27,2	± 0,723	28,4	2,27	1,18	105	1,05
Eisen	µg/l	26,5	± 0,924	26	6,76	1,51	98,1	-0,34
Quecksilber	µg/l	-	± -	<0,01 (LOD)	-	-	-	-
Mangan	µg/l	5,6	± 0,176	6	0,6	0,282	107	1,43
Nickel	µg/l	0,685	± 0,0222	<1 (LOQ)	-	0,0222	-	-
Blei	µg/l	0,436	± 0,0538	<0,5 (LOQ)	-	0,0647	-	-
Selen	µg/l	0,139	± 0,0179	<0,5 (LOQ)	-	0,0146	-	-
Uran	µg/l	1,08	± 0,0479	1,2	0,06	0,0714	111	1,7
Zink	µg/l	60,3	± 2,32	61	6,1	3,87	101	0,18

Sample: M135B

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	0,633	± 0,265	<5 (LOQ)	-	0,216	-	-
Arsen	µg/l	0,139	± 0,0173	<0,5 (LOQ)	-	0,0164	-	-
Cadmium	µg/l	0,0463	± 0,00228	<0,1 (LOQ)	-	0,00215	-	-
Chrom	µg/l	2,08	± 0,0671	2,1	0,252	0,105	101	0,21
Kupfer	µg/l	4,74	± 0,195	5	0,4	0,312	105	0,83
Eisen	µg/l	18,9	± 0,838	20	5,2	1,37	106	0,77
Quecksilber	µg/l	-	± -	<0,01 (LOD)	-	-	-	-
Mangan	µg/l	98,5	± 3,07	103	10,3	5,22	105	0,86
Nickel	µg/l	2,38	± 0,0848	2,5	0,25	0,117	105	1,01
Blei	µg/l	1,01	± 0,0455	1,1	0,088	0,0625	109	1,43
Selen	µg/l	2,54	± 0,218	2,6	0,39	0,316	102	0,18
Uran	µg/l	3,33	± 0,131	3,6	0,18	0,201	108	1,35
Zink	µg/l	87,2	± 2,96	94	9,4	4,83	108	1,41



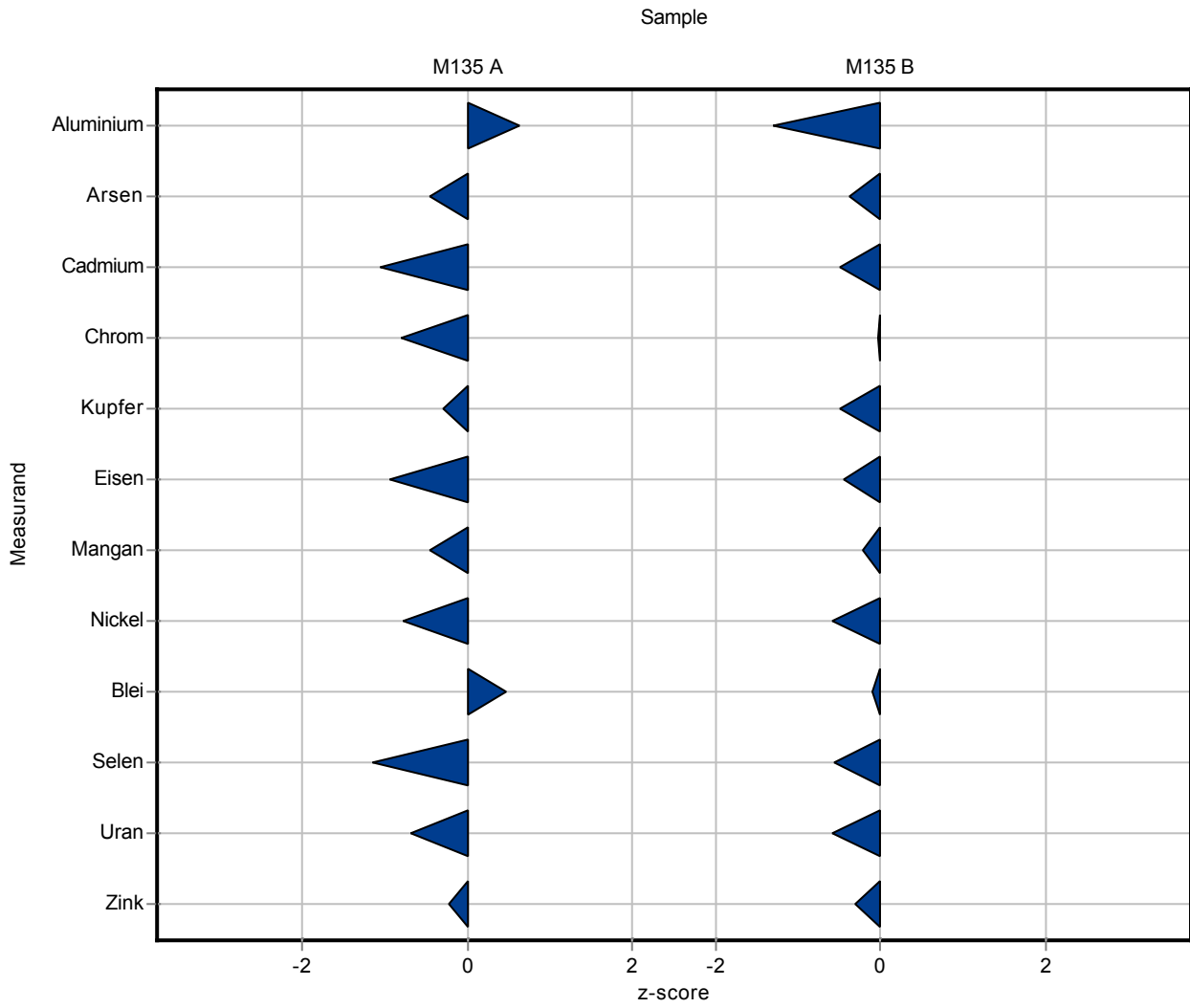
The following results were achieved:

Sample: M135A

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	3,4	± 0,564	3,824	0,459	0,677	113	0,63
Arsen	µg/l	0,608	± 0,0419	0,5845	0,0999	0,0523	96,2	-0,44
Cadmium	µg/l	0,0234	± 0,00308	0,02078	0,00357	0,00252	88,7	-1,05
Chrom	µg/l	0,199	± 0,0147	0,1861	0,0177	0,0163	93,6	-0,79
Kupfer	µg/l	27,2	± 0,723	26,82	3,0038	1,18	98,7	-0,29
Eisen	µg/l	26,5	± 0,924	25,11	1,582	1,51	94,7	-0,93
Quecksilber	µg/l	-	± -	<0,01 (LOQ)	-	-	-	-
Mangan	µg/l	5,6	± 0,176	5,471	0,361	0,282	97,8	-0,45
Nickel	µg/l	0,685	± 0,0222	0,6682	0,0735	0,0222	97,5	-0,78
Blei	µg/l	0,436	± 0,0538	0,4664	0,0681	0,0647	107	0,47
Selen	µg/l	0,139	± 0,0179	0,1223	0,0136	0,0146	88,1	-1,13
Uran	µg/l	1,08	± 0,0479	1,03	0,0896	0,0714	95,5	-0,68
Zink	µg/l	60,3	± 2,32	59,39	6,058	3,87	98,5	-0,23

Sample: M135B

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	0,633	± 0,265	0,3508	0,0433	0,216	55,4	-1,3
Arsen	µg/l	0,139	± 0,0173	0,1327	0,0227	0,0164	95,6	-0,38
Cadmium	µg/l	0,0463	± 0,00228	0,04522	0,00778	0,00215	97,7	-0,48
Chrom	µg/l	2,08	± 0,0671	2,075	0,197	0,105	99,9	-0,02
Kupfer	µg/l	4,74	± 0,195	4,588	0,514	0,312	96,8	-0,49
Eisen	µg/l	18,9	± 0,838	18,33	1,155	1,37	96,7	-0,45
Quecksilber	µg/l	-	± -	<0,01 (LOQ)	-	-	-	-
Mangan	µg/l	98,5	± 3,07	97,35	6,425	5,22	98,8	-0,22
Nickel	µg/l	2,38	± 0,0848	2,313	0,254	0,117	97,1	-0,59
Blei	µg/l	1,01	± 0,0455	1,004	0,147	0,0625	99,3	-0,11
Selen	µg/l	2,54	± 0,218	2,365	0,2602	0,316	93	-0,56
Uran	µg/l	3,33	± 0,131	3,212	0,279	0,201	96,5	-0,58
Zink	µg/l	87,2	± 2,96	85,72	8,743	4,83	98,3	-0,31



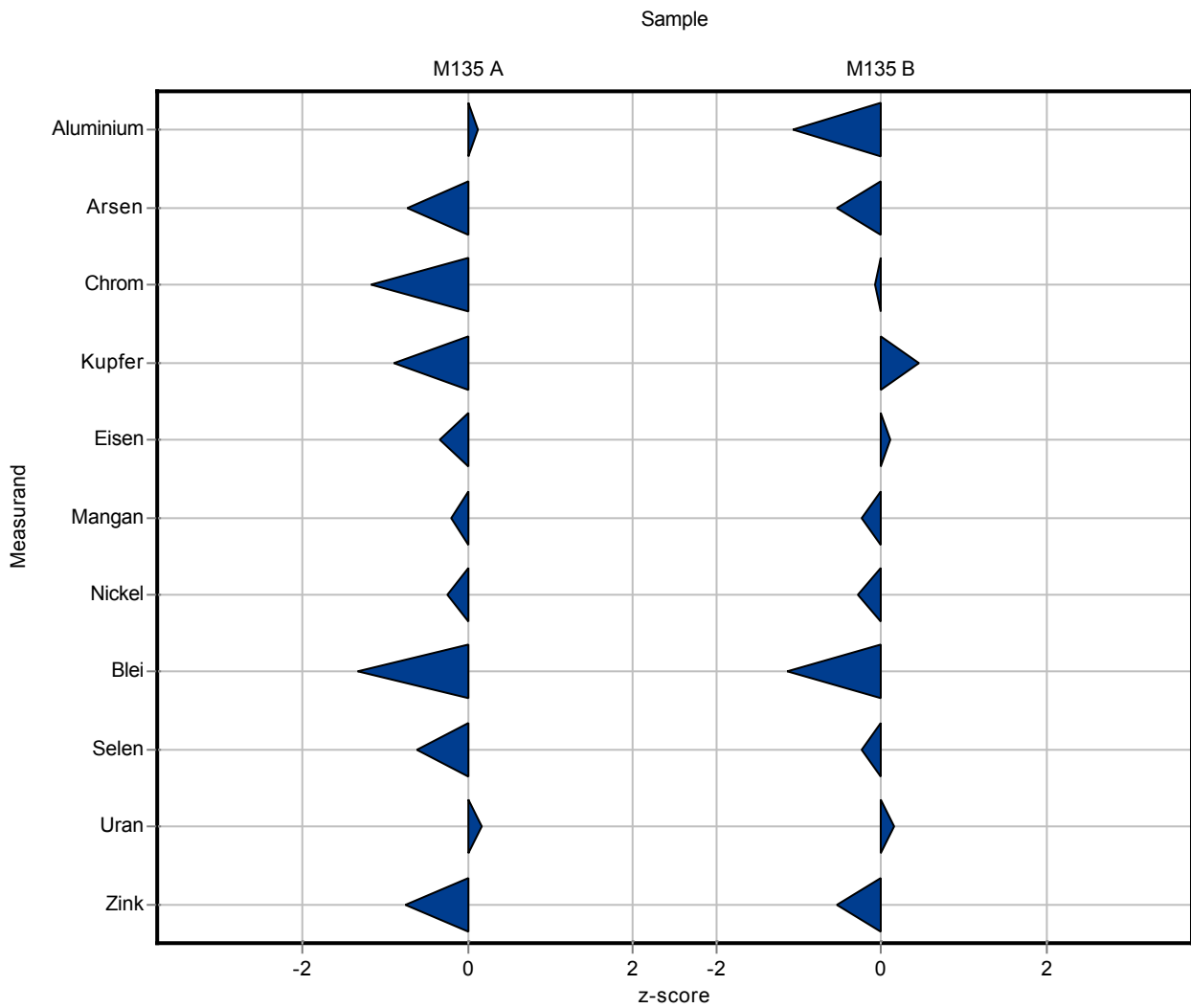
The following results were achieved:

Sample: M135A

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	3,4 ± 0,564	3,48	0,52	0,677	102	0,12
Arsen	µg/l	0,608 ± 0,0419	0,57	0,11	0,0523	93,8	-0,72
Cadmium	µg/l	0,0234 ± 0,00308	<0,05 (LOQ)	-	0,00252	-	-
Chrom	µg/l	0,199 ± 0,0147	0,18	0,02	0,0163	90,5	-1,16
Kupfer	µg/l	27,2 ± 0,723	26,1	3,9	1,18	96,1	-0,9
Eisen	µg/l	26,5 ± 0,924	26	4,3	1,51	98,1	-0,34
Quecksilber	µg/l	- ± -	<0,01 (LOQ)	-	-	-	-
Mangan	µg/l	5,6 ± 0,176	5,54	0,55	0,282	99	-0,2
Nickel	µg/l	0,685 ± 0,0222	0,68	0,07	0,0222	99,2	-0,25
Blei	µg/l	0,436 ± 0,0538	0,35	0,05	0,0647	80,3	-1,33
Selen	µg/l	0,139 ± 0,0179	0,13	0,02	0,0146	93,6	-0,61
Uran	µg/l	1,08 ± 0,0479	1,09	0,11	0,0714	101	0,16
Zink	µg/l	60,3 ± 2,32	57,4	5,2	3,87	95,2	-0,74

Sample: M135B

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	0,633 ± 0,265	0,4	0,07	0,216	63,2	-1,08
Arsen	µg/l	0,139 ± 0,0173	0,13	0,02	0,0164	93,6	-0,54
Cadmium	µg/l	0,0463 ± 0,00228	<0,05 (LOQ)	-	0,00215	-	-
Chrom	µg/l	2,08 ± 0,0671	2,07	0,2	0,105	99,6	-0,07
Kupfer	µg/l	4,74 ± 0,195	4,88	0,73	0,312	103	0,45
Eisen	µg/l	18,9 ± 0,838	19,1	3,2	1,37	101	0,11
Quecksilber	µg/l	- ± -	<0,01 (LOQ)	-	-	-	-
Mangan	µg/l	98,5 ± 3,07	97,3	10	5,22	98,8	-0,23
Nickel	µg/l	2,38 ± 0,0848	2,35	0,24	0,117	98,6	-0,28
Blei	µg/l	1,01 ± 0,0455	0,94	0,14	0,0625	93	-1,13
Selen	µg/l	2,54 ± 0,218	2,47	0,37	0,316	97,1	-0,23
Uran	µg/l	3,33 ± 0,131	3,36	0,34	0,201	101	0,15
Zink	µg/l	87,2 ± 2,96	84,6	7,6	4,83	97	-0,54



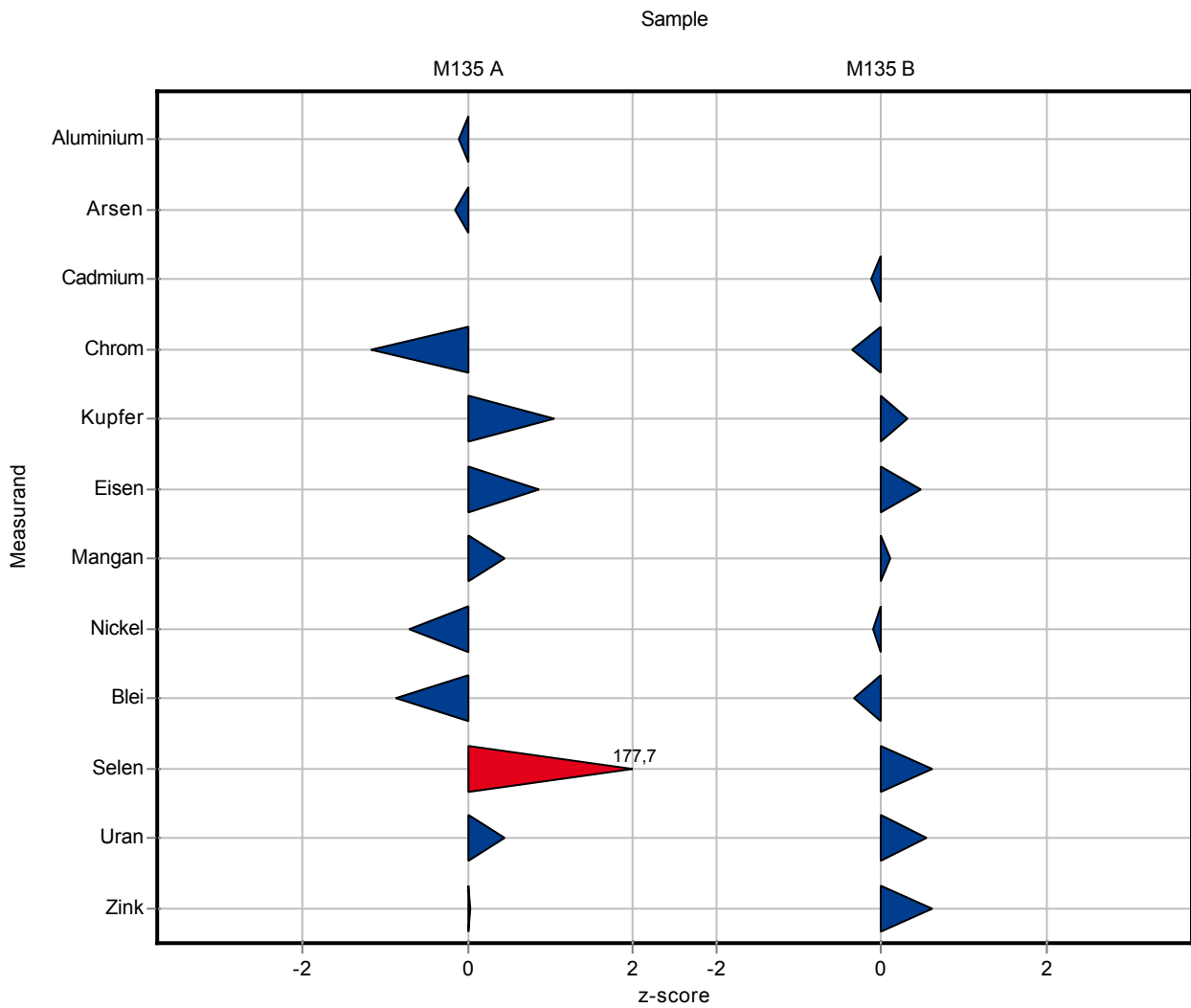
The following results were achieved:

Sample: M135A

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	3,4	± 0,564	3,33	0,42	0,677	98	-0,1
Arsen	µg/l	0,608	± 0,0419	0,6	0,08	0,0523	98,7	-0,15
Cadmium	µg/l	0,0234	± 0,00308	<0,04 (LOQ)	-	0,00252	-	-
Chrom	µg/l	0,199	± 0,0147	0,18	0,03	0,0163	90,5	-1,16
Kupfer	µg/l	27,2	± 0,723	28,4	3,7	1,18	105	1,05
Eisen	µg/l	26,5	± 0,924	27,8	3,67	1,51	105	0,85
Quecksilber	µg/l	-	± -	<0,01 (LOQ)	-	-	-	-
Mangan	µg/l	5,6	± 0,176	5,72	0,73	0,282	102	0,44
Nickel	µg/l	0,685	± 0,0222	0,67	0,09	0,0222	97,7	-0,7
Blei	µg/l	0,436	± 0,0538	0,38	0,06	0,0647	87,1	-0,87
Selen	µg/l	0,139	± 0,0179	2,74	0,38	0,0146	1970	178
Uran	µg/l	1,08	± 0,0479	1,11	0,15	0,0714	103	0,44
Zink	µg/l	60,3	± 2,32	60,4	9	3,87	100	0,03

Sample: M135B

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	0,633	± 0,265	<0,7 (LOQ)	-	0,216	-	-
Arsen	µg/l	0,139	± 0,0173	<0,3 (LOQ)	-	0,0164	-	-
Cadmium	µg/l	0,0463	± 0,00228	0,046	0,01	0,00215	99,4	-0,12
Chrom	µg/l	2,08	± 0,0671	2,04	0,31	0,105	98,2	-0,36
Kupfer	µg/l	4,74	± 0,195	4,84	0,63	0,312	102	0,32
Eisen	µg/l	18,9	± 0,838	19,6	2,58	1,37	103	0,48
Quecksilber	µg/l	-	± -	<0,01 (LOQ)	-	-	-	-
Mangan	µg/l	98,5	± 3,07	99,1	12,7	5,22	101	0,12
Nickel	µg/l	2,38	± 0,0848	2,37	0,33	0,117	99,5	-0,1
Blei	µg/l	1,01	± 0,0455	0,99	0,15	0,0625	98	-0,33
Selen	µg/l	2,54	± 0,218	2,74	0,38	0,316	108	0,63
Uran	µg/l	3,33	± 0,131	3,44	0,46	0,201	103	0,55
Zink	µg/l	87,2	± 2,96	90,2	13,4	4,83	103	0,62



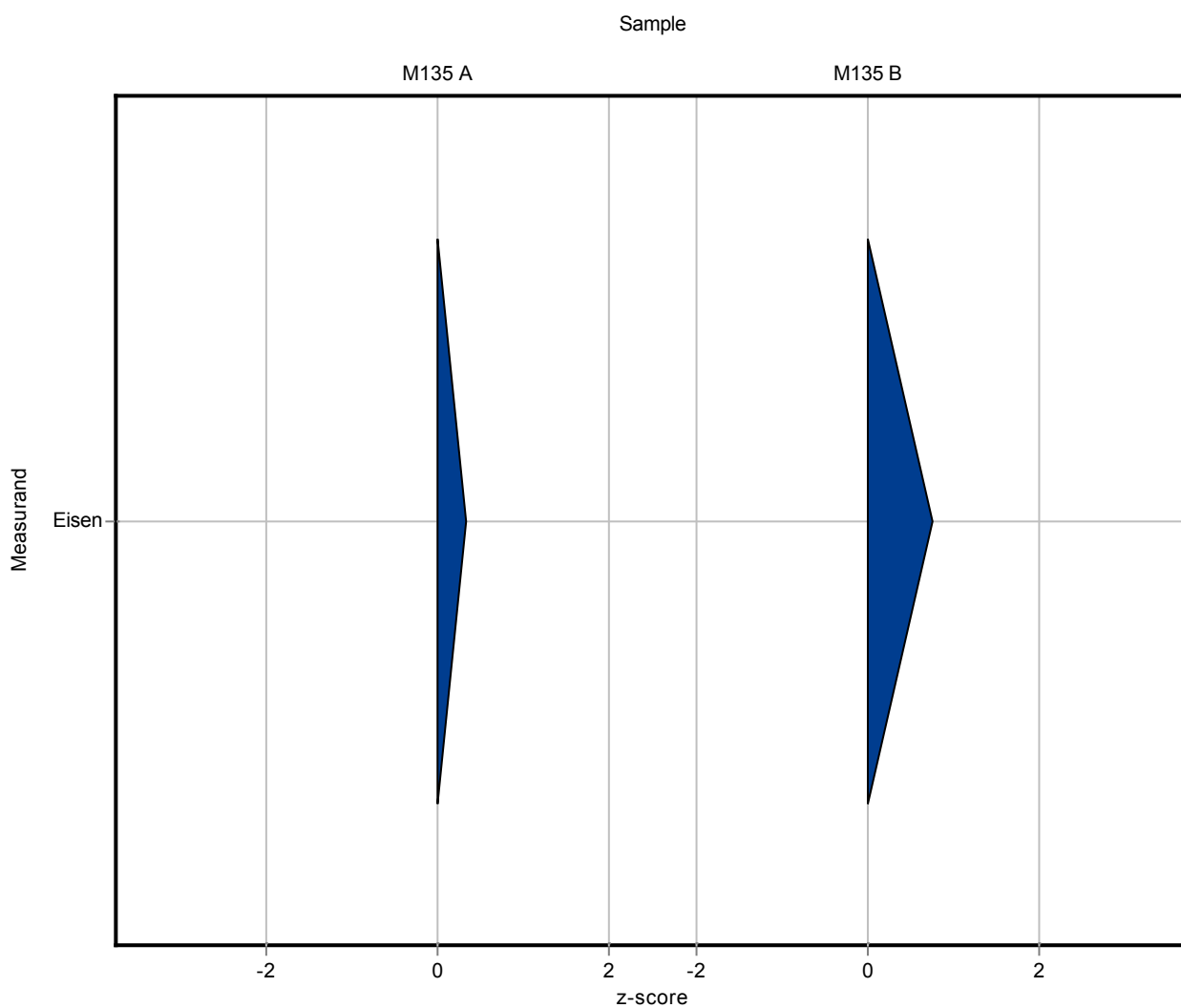
The following results were achieved:

Sample: M135A

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	3,4 ± 0,564	<20 (LOQ)	-	0,677	-	-
Arsen	µg/l	0,608 ± 0,0419	-	-	0,0523	-	-
Cadmium	µg/l	0,0234 ± 0,00308	-	-	0,00252	-	-
Chrom	µg/l	0,199 ± 0,0147	-	-	0,0163	-	-
Kupfer	µg/l	27,2 ± 0,723	-	-	1,18	-	-
Eisen	µg/l	26,5 ± 0,924	27	3,24	1,51	102	0,32
Quecksilber	µg/l	- ± -	-	-	-	-	-
Mangan	µg/l	5,6 ± 0,176	<20 (LOQ)	-	0,282	-	-
Nickel	µg/l	0,685 ± 0,0222	-	-	0,0222	-	-
Blei	µg/l	0,436 ± 0,0538	-	-	0,0647	-	-
Selen	µg/l	0,139 ± 0,0179	-	-	0,0146	-	-
Uran	µg/l	1,08 ± 0,0479	-	-	0,0714	-	-
Zink	µg/l	60,3 ± 2,32	-	-	3,87	-	-

Sample: M135B

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	0,633 ± 0,265	<20 (LOQ)	-	0,216	-	-
Arsen	µg/l	0,139 ± 0,0173	-	-	0,0164	-	-
Cadmium	µg/l	0,0463 ± 0,00228	-	-	0,00215	-	-
Chrom	µg/l	2,08 ± 0,0671	-	-	0,105	-	-
Kupfer	µg/l	4,74 ± 0,195	-	-	0,312	-	-
Eisen	µg/l	18,9 ± 0,838	20	2,4	1,37	106	0,77
Quecksilber	µg/l	- ± -	-	-	-	-	-
Mangan	µg/l	98,5 ± 3,07	<20 (LOQ)	-	5,22	-	-
Nickel	µg/l	2,38 ± 0,0848	-	-	0,117	-	-
Blei	µg/l	1,01 ± 0,0455	-	-	0,0625	-	-
Selen	µg/l	2,54 ± 0,218	-	-	0,316	-	-
Uran	µg/l	3,33 ± 0,131	-	-	0,201	-	-
Zink	µg/l	87,2 ± 2,96	-	-	4,83	-	-



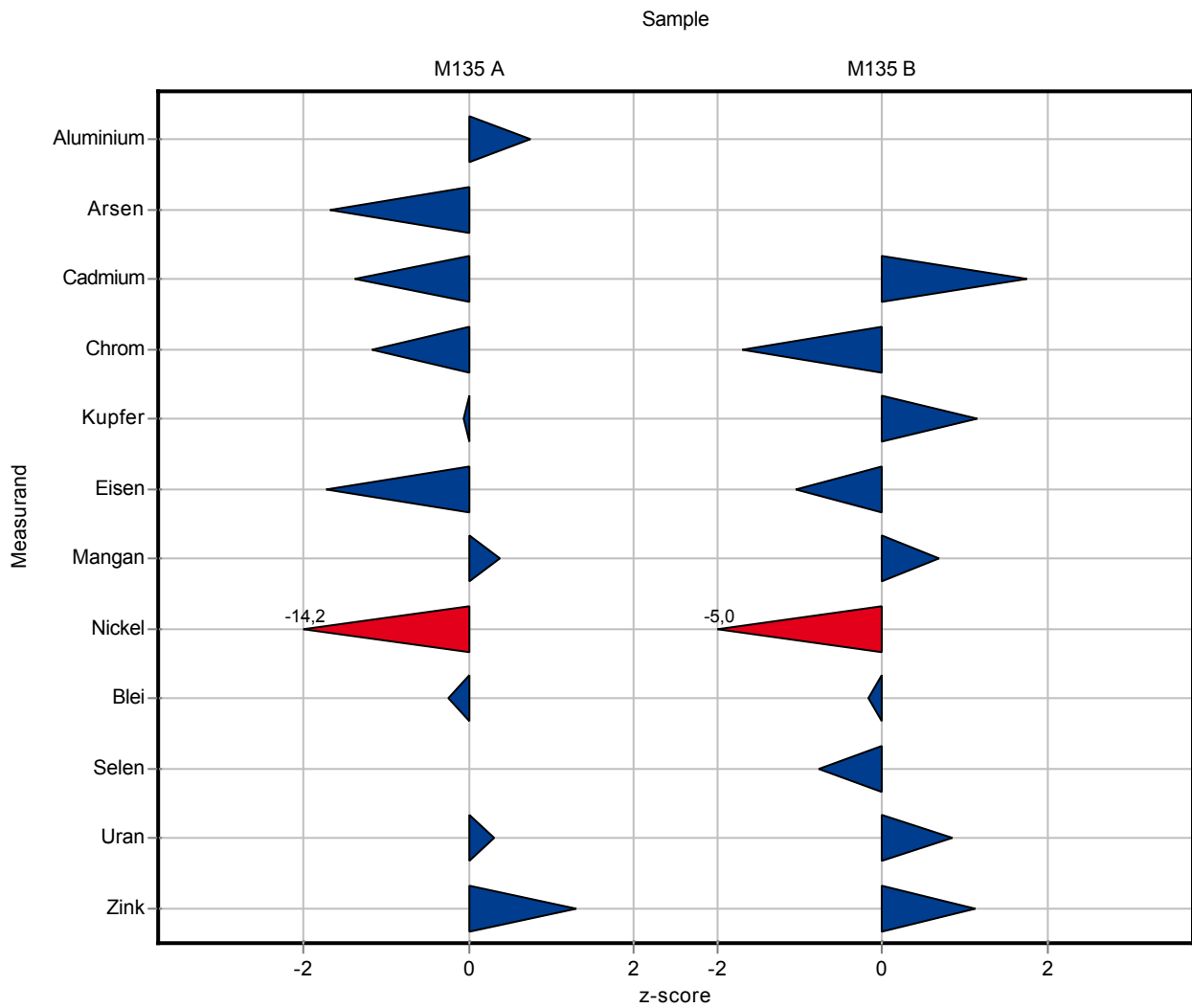
The following results were achieved:

Sample: M135A

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	3,4 ± 0,564	3,9	0,5	0,677	115	0,74
Arsen	µg/l	0,608 ± 0,0419	0,52	0,06	0,0523	85,6	-1,68
Cadmium	µg/l	0,0234 ± 0,00308	0,02	0,01	0,00252	85,4	-1,36
Chrom	µg/l	0,199 ± 0,0147	0,18	0,03	0,0163	90,5	-1,16
Kupfer	µg/l	27,2 ± 0,723	27,1	2,5	1,18	99,8	-0,05
Eisen	µg/l	26,5 ± 0,924	23,9	2,5	1,51	90,2	-1,73
Quecksilber	µg/l	- ± -	<0,05 (LOQ)	-	-	-	-
Mangan	µg/l	5,6 ± 0,176	5,7	0,5	0,282	102	0,37
Nickel	µg/l	0,685 ± 0,0222	0,37	0,05	0,0222	54	-14,2
Blei	µg/l	0,436 ± 0,0538	0,42	0,05	0,0647	96,3	-0,25
Selen	µg/l	0,139 ± 0,0179	<0,2 (LOQ)	-	0,0146	-	-
Uran	µg/l	1,08 ± 0,0479	1,1	0,2	0,0714	102	0,3
Zink	µg/l	60,3 ± 2,32	65,3	5	3,87	108	1,3

Sample: M135B

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	0,633 ± 0,265	<1 (LOQ)	-	0,216	-	-
Arsen	µg/l	0,139 ± 0,0173	<0,2 (LOQ)	-	0,0164	-	-
Cadmium	µg/l	0,0463 ± 0,00228	0,05	0,01	0,00215	108	1,73
Chrom	µg/l	2,08 ± 0,0671	1,9	0,2	0,105	91,5	-1,69
Kupfer	µg/l	4,74 ± 0,195	5,1	0,5	0,312	108	1,15
Eisen	µg/l	18,9 ± 0,838	17,5	2,5	1,37	92,4	-1,06
Quecksilber	µg/l	- ± -	<0,05 (LOQ)	-	-	-	-
Mangan	µg/l	98,5 ± 3,07	102	10	5,22	104	0,67
Nickel	µg/l	2,38 ± 0,0848	1,8	0,2	0,117	75,6	-4,99
Blei	µg/l	1,01 ± 0,0455	1	0,1	0,0625	98,9	-0,17
Selen	µg/l	2,54 ± 0,218	2,3	0,2	0,316	90,5	-0,77
Uran	µg/l	3,33 ± 0,131	3,5	0,3	0,201	105	0,85
Zink	µg/l	87,2 ± 2,96	92,6	9	4,83	106	1,12



The following results were achieved:

Sample: M135A

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	3,4 ± 0,564	-	-	0,677	-	-
Arsen	µg/l	0,608 ± 0,0419	-	-	0,0523	-	-
Cadmium	µg/l	0,0234 ± 0,00308	-	-	0,00252	-	-
Chrom	µg/l	0,199 ± 0,0147	-	-	0,0163	-	-
Kupfer	µg/l	27,2 ± 0,723	-	-	1,18	-	-
Eisen	µg/l	26,5 ± 0,924	-	-	1,51	-	-
Quecksilber	µg/l	- ± -	-	-	-	-	-
Mangan	µg/l	5,6 ± 0,176	-	-	0,282	-	-
Nickel	µg/l	0,685 ± 0,0222	-	-	0,0222	-	-
Blei	µg/l	0,436 ± 0,0538	-	-	0,0647	-	-
Selen	µg/l	0,139 ± 0,0179	-	-	0,0146	-	-
Uran	µg/l	1,08 ± 0,0479	-	-	0,0714	-	-
Zink	µg/l	60,3 ± 2,32	-	-	3,87	-	-

Sample: M135B

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	0,633 ± 0,265	-	-	0,216	-	-
Arsen	µg/l	0,139 ± 0,0173	-	-	0,0164	-	-
Cadmium	µg/l	0,0463 ± 0,00228	-	-	0,00215	-	-
Chrom	µg/l	2,08 ± 0,0671	-	-	0,105	-	-
Kupfer	µg/l	4,74 ± 0,195	-	-	0,312	-	-
Eisen	µg/l	18,9 ± 0,838	-	-	1,37	-	-
Quecksilber	µg/l	- ± -	-	-	-	-	-
Mangan	µg/l	98,5 ± 3,07	-	-	5,22	-	-
Nickel	µg/l	2,38 ± 0,0848	-	-	0,117	-	-
Blei	µg/l	1,01 ± 0,0455	-	-	0,0625	-	-
Selen	µg/l	2,54 ± 0,218	-	-	0,316	-	-
Uran	µg/l	3,33 ± 0,131	-	-	0,201	-	-
Zink	µg/l	87,2 ± 2,96	-	-	4,83	-	-

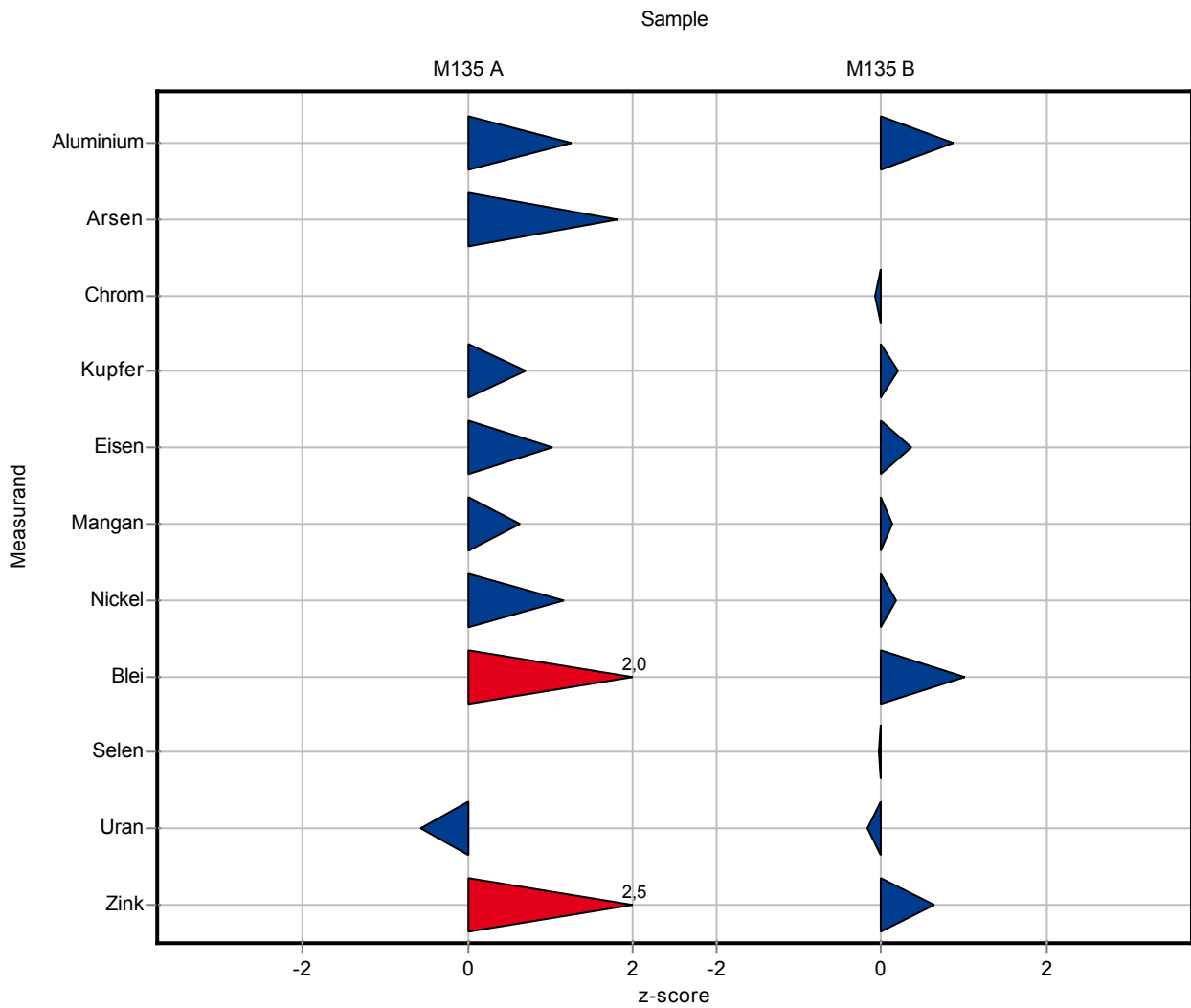
The following results were achieved:

Sample: M135A

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	3,4 ± 0,564	4,2471	0,0942	0,677	125	1,25
Arsen	µg/l	0,608 ± 0,0419	0,7026	0,1798	0,0523	116	1,82
Cadmium	µg/l	0,0234 ± 0,00308	<0,3125	-	0,00252	-	-
Chrom	µg/l	0,199 ± 0,0147	<0,2341	-	0,0163	-	-
Kupfer	µg/l	27,2 ± 0,723	27,9942	0,2309	1,18	103	0,7
Eisen	µg/l	26,5 ± 0,924	28,0612	1,2106	1,51	106	1,03
Quecksilber	µg/l	- ± -	0,59	0,04	-	-	-
Mangan	µg/l	5,6 ± 0,176	5,7743	0,2078	0,282	103	0,63
Nickel	µg/l	0,685 ± 0,0222	0,7113	0,1414	0,0222	104	1,16
Blei	µg/l	0,436 ± 0,0538	0,5682	0,0372	0,0647	130	2,04
Selen	µg/l	0,139 ± 0,0179	<0,5851	-	0,0146	-	-
Uran	µg/l	1,08 ± 0,0479	1,0372	0,0499	0,0714	96,2	-0,58
Zink	µg/l	60,3 ± 2,32	69,9902	0,4111	3,87	116	2,51

Sample: M135B

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	0,633 ± 0,265	0,8191	0,028	0,216	129	0,86
Arsen	µg/l	0,139 ± 0,0173	<0,4011	-	0,0164	-	-
Cadmium	µg/l	0,0463 ± 0,00228	<0,3125	-	0,00215	-	-
Chrom	µg/l	2,08 ± 0,0671	2,0685	0,0583	0,105	99,6	-0,09
Kupfer	µg/l	4,74 ± 0,195	4,8056	0,0976	0,312	101	0,21
Eisen	µg/l	18,9 ± 0,838	19,452	1,2388	1,37	103	0,37
Quecksilber	µg/l	- ± -	0,44	0,04	-	-	-
Mangan	µg/l	98,5 ± 3,07	99,2235	0,617	5,22	101	0,14
Nickel	µg/l	2,38 ± 0,0848	2,4039	0,1317	0,117	101	0,19
Blei	µg/l	1,01 ± 0,0455	1,0734	0,0343	0,0625	106	1,01
Selen	µg/l	2,54 ± 0,218	2,5345	0,2478	0,316	99,7	-0,03
Uran	µg/l	3,33 ± 0,131	3,2935	0,0648	0,201	98,9	-0,18
Zink	µg/l	87,2 ± 2,96	90,3021	0,4494	4,83	104	0,64



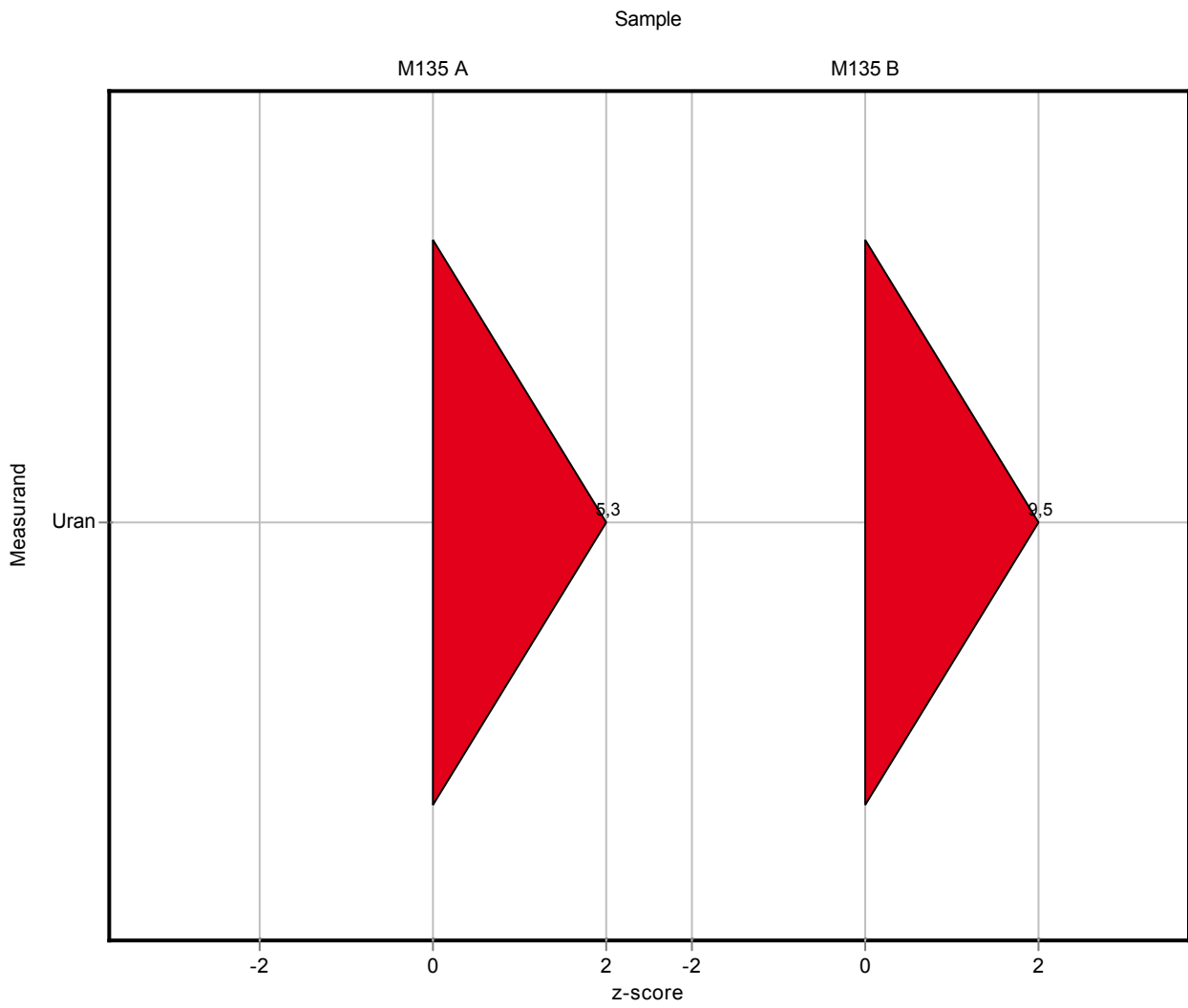
The following results were achieved:

Sample: M135A

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	3,4 ± 0,564	-	-	0,677	-	-
Arsen	µg/l	0,608 ± 0,0419	-	-	0,0523	-	-
Cadmium	µg/l	0,0234 ± 0,00308	-	-	0,00252	-	-
Chrom	µg/l	0,199 ± 0,0147	-	-	0,0163	-	-
Kupfer	µg/l	27,2 ± 0,723	-	-	1,18	-	-
Eisen	µg/l	26,5 ± 0,924	-	-	1,51	-	-
Quecksilber	µg/l	- ± -	-	-	-	-	-
Mangan	µg/l	5,6 ± 0,176	-	-	0,282	-	-
Nickel	µg/l	0,685 ± 0,0222	-	-	0,0222	-	-
Blei	µg/l	0,436 ± 0,0538	-	-	0,0647	-	-
Selen	µg/l	0,139 ± 0,0179	-	-	0,0146	-	-
Uran	µg/l	1,08 ± 0,0479	1,46	0,05	0,0714	135	5,34
Zink	µg/l	60,3 ± 2,32	-	-	3,87	-	-

Sample: M135B

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	0,633 ± 0,265	-	-	0,216	-	-
Arsen	µg/l	0,139 ± 0,0173	-	-	0,0164	-	-
Cadmium	µg/l	0,0463 ± 0,00228	-	-	0,00215	-	-
Chrom	µg/l	2,08 ± 0,0671	-	-	0,105	-	-
Kupfer	µg/l	4,74 ± 0,195	-	-	0,312	-	-
Eisen	µg/l	18,9 ± 0,838	-	-	1,37	-	-
Quecksilber	µg/l	- ± -	-	-	-	-	-
Mangan	µg/l	98,5 ± 3,07	-	-	5,22	-	-
Nickel	µg/l	2,38 ± 0,0848	-	-	0,117	-	-
Blei	µg/l	1,01 ± 0,0455	-	-	0,0625	-	-
Selen	µg/l	2,54 ± 0,218	-	-	0,316	-	-
Uran	µg/l	3,33 ± 0,131	5,23	0,21	0,201	157	9,47
Zink	µg/l	87,2 ± 2,96	-	-	4,83	-	-



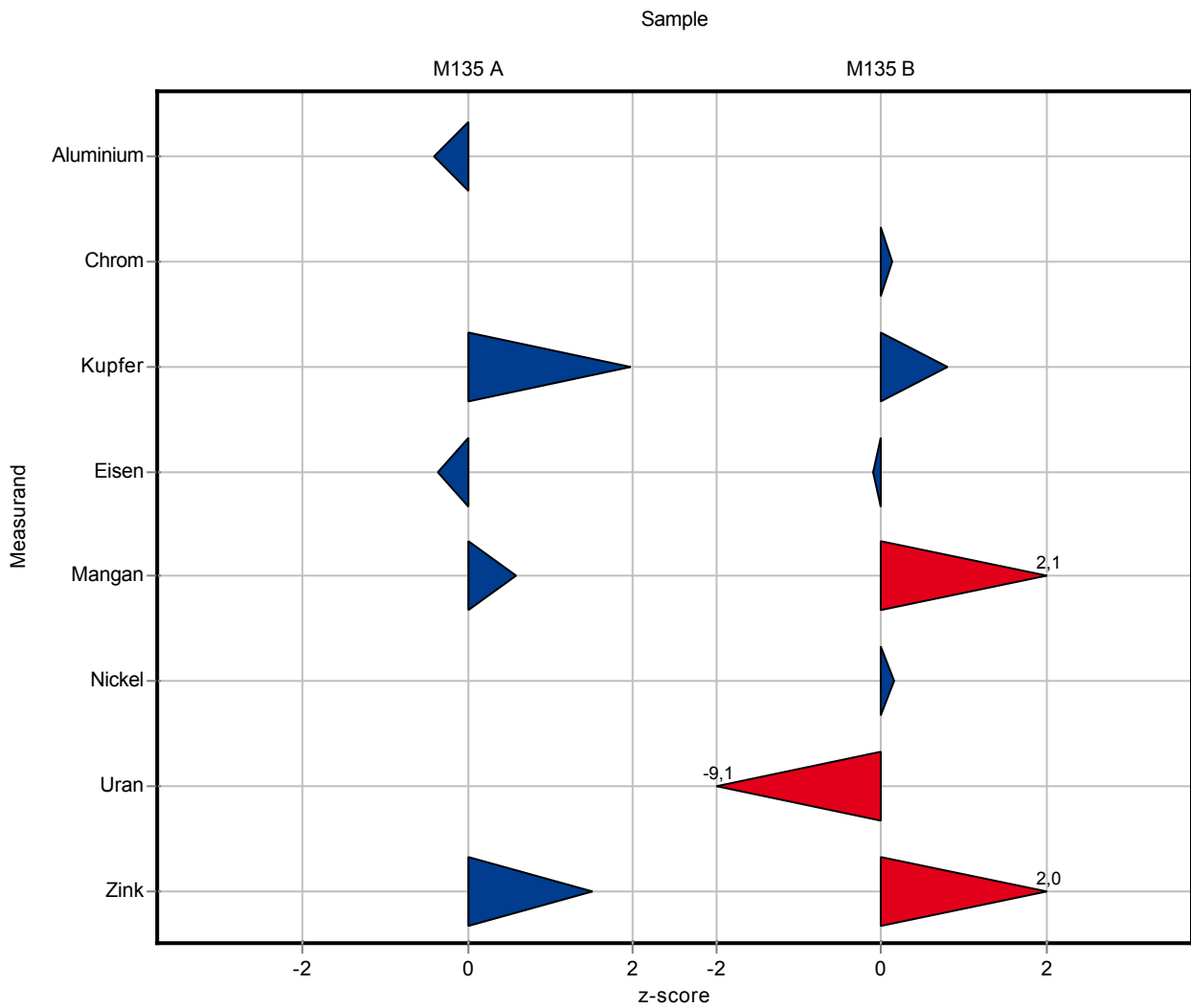
The following results were achieved:

Sample: M135A

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	3,4 ± 0,564	3,13	-	0,677	92,1	-0,4
Arsen	µg/l	0,608 ± 0,0419	<2 (LOQ)	-	0,0523	-	-
Cadmium	µg/l	0,0234 ± 0,00308	<0,2 (LOQ)	-	0,00252	-	-
Chrom	µg/l	0,199 ± 0,0147	<2 (LOQ)	-	0,0163	-	-
Kupfer	µg/l	27,2 ± 0,723	29,48	-	1,18	109	1,96
Eisen	µg/l	26,5 ± 0,924	25,97	-	1,51	98	-0,36
Quecksilber	µg/l	- ± -	-	-	-	-	-
Mangan	µg/l	5,6 ± 0,176	5,76	-	0,282	103	0,58
Nickel	µg/l	0,685 ± 0,0222	<2 (LOQ)	-	0,0222	-	-
Blei	µg/l	0,436 ± 0,0538	<1 (LOQ)	-	0,0647	-	-
Selen	µg/l	0,139 ± 0,0179	<2 (LOQ)	-	0,0146	-	-
Uran	µg/l	1,08 ± 0,0479	<1 (LOQ)	-	0,0714	-	-
Zink	µg/l	60,3 ± 2,32	66,13	-	3,87	110	1,51

Sample: M135B

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	0,633 ± 0,265	<1 (LOQ)	-	0,216	-	-
Arsen	µg/l	0,139 ± 0,0173	<2 (LOQ)	-	0,0164	-	-
Cadmium	µg/l	0,0463 ± 0,00228	<0,2 (LOQ)	-	0,00215	-	-
Chrom	µg/l	2,08 ± 0,0671	2,09	-	0,105	101	0,12
Kupfer	µg/l	4,74 ± 0,195	4,99	-	0,312	105	0,8
Eisen	µg/l	18,9 ± 0,838	18,82	-	1,37	99,3	-0,09
Quecksilber	µg/l	- ± -	-	-	-	-	-
Mangan	µg/l	98,5 ± 3,07	109,42	-	5,22	111	2,09
Nickel	µg/l	2,38 ± 0,0848	2,4	-	0,117	101	0,15
Blei	µg/l	1,01 ± 0,0455	<1 (LOQ)	-	0,0625	-	-
Selen	µg/l	2,54 ± 0,218	<2 (LOQ)	-	0,316	-	-
Uran	µg/l	3,33 ± 0,131	1,5	-	0,201	45,1	-9,12
Zink	µg/l	87,2 ± 2,96	97,05	-	4,83	111	2,04



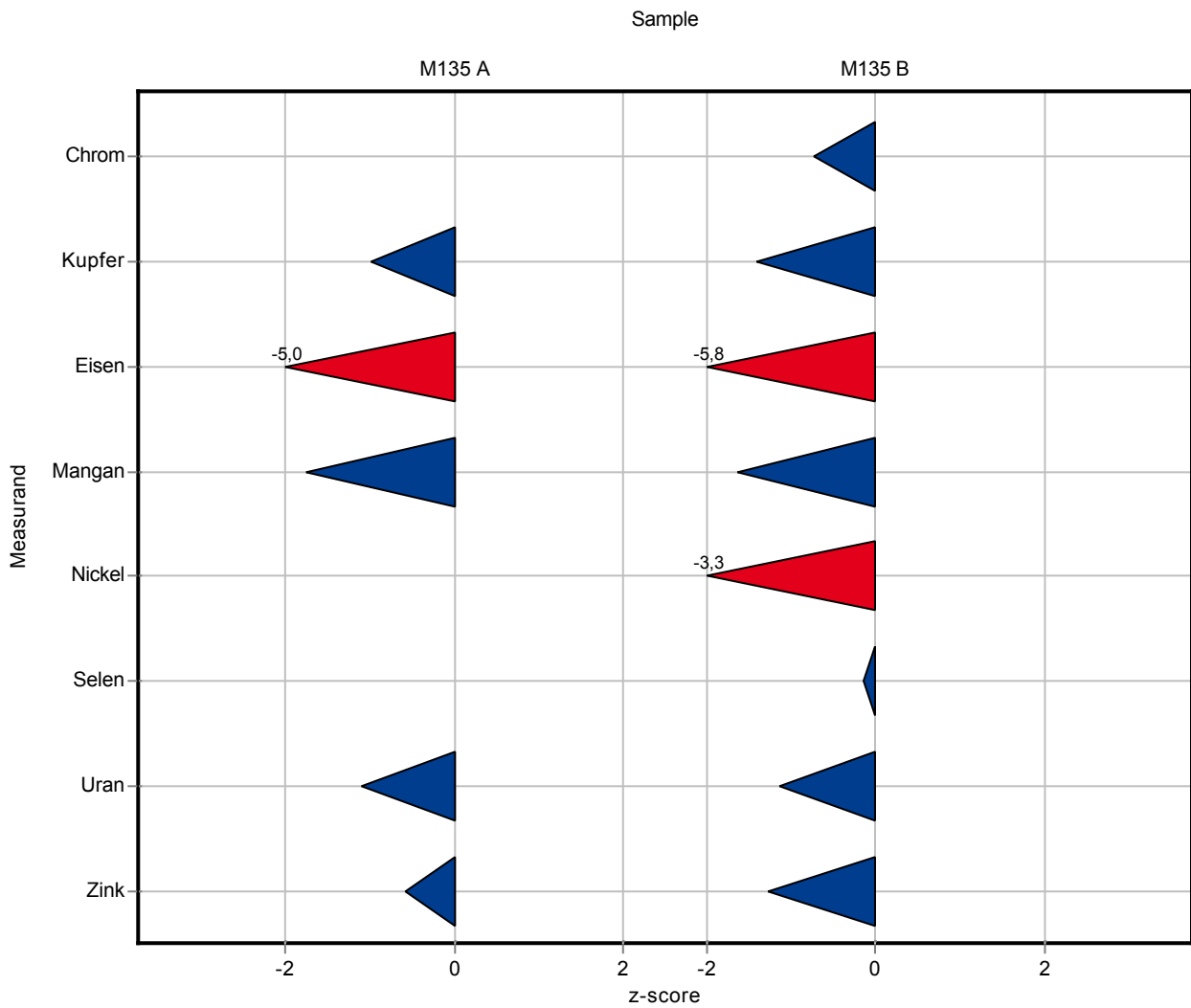
The following results were achieved:

Sample: M135A

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	3,4 ± 0,564	<5 (LOQ)	-	0,677	-	-
Arsen	µg/l	0,608 ± 0,0419	<1 (LOQ)	-	0,0523	-	-
Cadmium	µg/l	0,0234 ± 0,00308	<0,1 (LOQ)	-	0,00252	-	-
Chrom	µg/l	0,199 ± 0,0147	<1 (LOQ)	-	0,0163	-	-
Kupfer	µg/l	27,2 ± 0,723	26	3	1,18	95,7	-0,99
Eisen	µg/l	26,5 ± 0,924	19	2	1,51	71,7	-4,98
Quecksilber	µg/l	- ± -	<0,05 (LOQ)	-	-	-	-
Mangan	µg/l	5,6 ± 0,176	5,1	1	0,282	91,1	-1,76
Nickel	µg/l	0,685 ± 0,0222	<1 (LOQ)	-	0,0222	-	-
Blei	µg/l	0,436 ± 0,0538	<1 (LOQ)	-	0,0647	-	-
Selen	µg/l	0,139 ± 0,0179	<1 (LOQ)	-	0,0146	-	-
Uran	µg/l	1,08 ± 0,0479	1	0,2	0,0714	92,7	-1,1
Zink	µg/l	60,3 ± 2,32	58	6	3,87	96,2	-0,59

Sample: M135B

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	0,633 ± 0,265	<5 (LOQ)	-	0,216	-	-
Arsen	µg/l	0,139 ± 0,0173	<1 (LOQ)	-	0,0164	-	-
Cadmium	µg/l	0,0463 ± 0,00228	<0,1 (LOQ)	-	0,00215	-	-
Chrom	µg/l	2,08 ± 0,0671	2	0,4	0,105	96,3	-0,74
Kupfer	µg/l	4,74 ± 0,195	4,3	1	0,312	90,7	-1,41
Eisen	µg/l	18,9 ± 0,838	11	2	1,37	58,1	-5,81
Quecksilber	µg/l	- ± -	<0,05 (LOQ)	-	-	-	-
Mangan	µg/l	98,5 ± 3,07	90	9	5,22	91,4	-1,63
Nickel	µg/l	2,38 ± 0,0848	2	0,4	0,117	84	-3,28
Blei	µg/l	1,01 ± 0,0455	<1 (LOQ)	-	0,0625	-	-
Selen	µg/l	2,54 ± 0,218	2,5	0,5	0,316	98,3	-0,14
Uran	µg/l	3,33 ± 0,131	3,1	0,3	0,201	93,1	-1,14
Zink	µg/l	87,2 ± 2,96	81	9	4,83	92,9	-1,28



The following results were achieved:

Sample: M135A

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	3,4 ± 0,564	-	-	0,677	-	-
Arsen	µg/l	0,608 ± 0,0419	-	-	0,0523	-	-
Cadmium	µg/l	0,0234 ± 0,00308	-	-	0,00252	-	-
Chrom	µg/l	0,199 ± 0,0147	-	-	0,0163	-	-
Kupfer	µg/l	27,2 ± 0,723	-	-	1,18	-	-
Eisen	µg/l	26,5 ± 0,924	-	-	1,51	-	-
Quecksilber	µg/l	- ± -	0,0286	0,015	-	-	-
Mangan	µg/l	5,6 ± 0,176	-	-	0,282	-	-
Nickel	µg/l	0,685 ± 0,0222	-	-	0,0222	-	-
Blei	µg/l	0,436 ± 0,0538	-	-	0,0647	-	-
Selen	µg/l	0,139 ± 0,0179	-	-	0,0146	-	-
Uran	µg/l	1,08 ± 0,0479	-	-	0,0714	-	-
Zink	µg/l	60,3 ± 2,32	-	-	3,87	-	-

Sample: M135B

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	0,633 ± 0,265	-	-	0,216	-	-
Arsen	µg/l	0,139 ± 0,0173	-	-	0,0164	-	-
Cadmium	µg/l	0,0463 ± 0,00228	-	-	0,00215	-	-
Chrom	µg/l	2,08 ± 0,0671	-	-	0,105	-	-
Kupfer	µg/l	4,74 ± 0,195	-	-	0,312	-	-
Eisen	µg/l	18,9 ± 0,838	-	-	1,37	-	-
Quecksilber	µg/l	- ± -	0,0235	0,015	-	-	-
Mangan	µg/l	98,5 ± 3,07	-	-	5,22	-	-
Nickel	µg/l	2,38 ± 0,0848	-	-	0,117	-	-
Blei	µg/l	1,01 ± 0,0455	-	-	0,0625	-	-
Selen	µg/l	2,54 ± 0,218	-	-	0,316	-	-
Uran	µg/l	3,33 ± 0,131	-	-	0,201	-	-
Zink	µg/l	87,2 ± 2,96	-	-	4,83	-	-

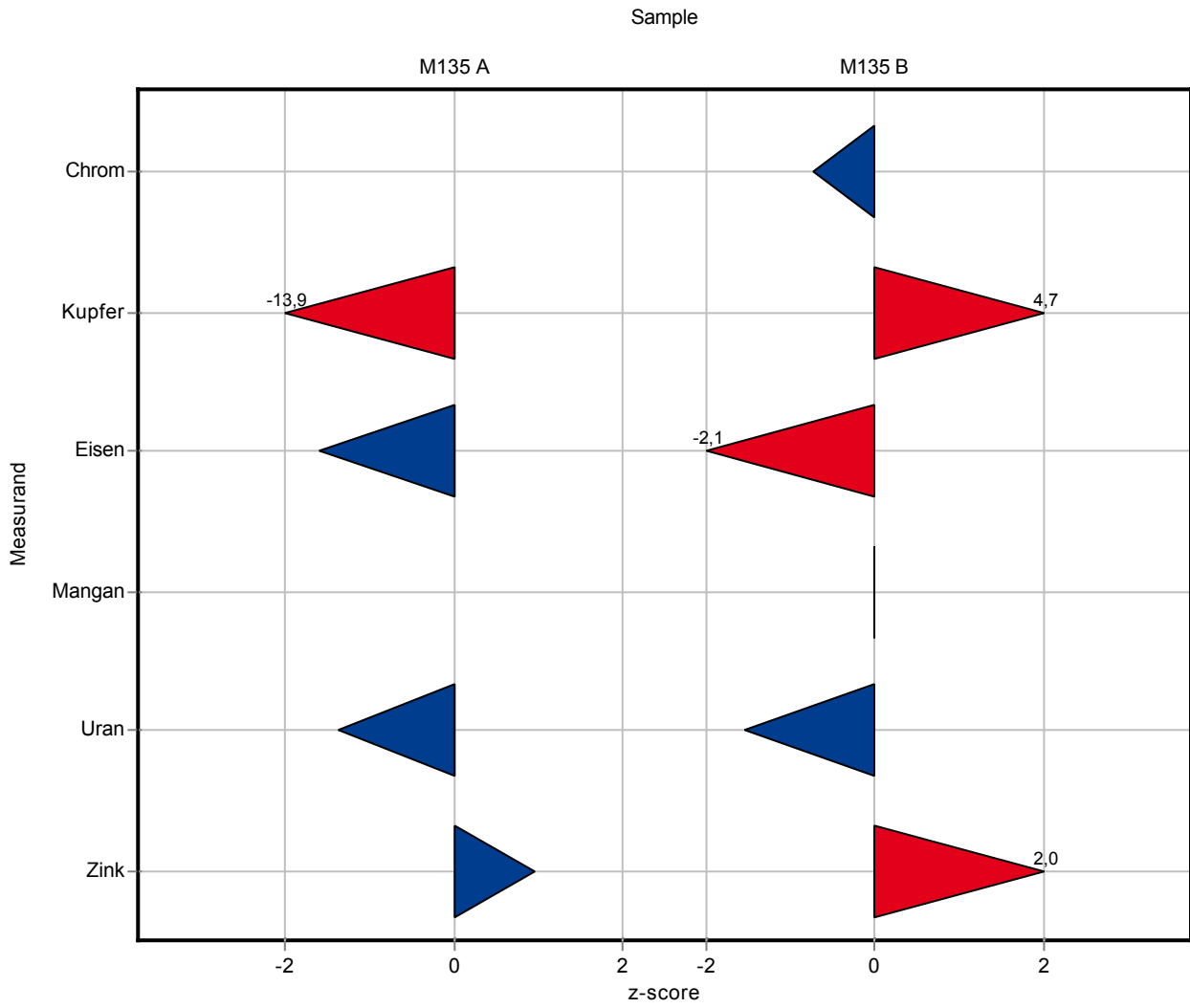
The following results were achieved:

Sample: M135A

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	3,4	± 0,564	<10 (LOQ)	-	0,677	-	-
Arsen	µg/l	0,608	± 0,0419	-	-	0,0523	-	-
Cadmium	µg/l	0,0234	± 0,00308	<0,1 (LOQ)	-	0,00252	-	-
Chrom	µg/l	0,199	± 0,0147	<1 (LOQ)	-	0,0163	-	-
Kupfer	µg/l	27,2	± 0,723	10,8	1,6	1,18	39,8	-13,9
Eisen	µg/l	26,5	± 0,924	24,1	3,6	1,51	90,9	-1,6
Quecksilber	µg/l	-	± -	<0,1 (LOQ)	-	-	-	-
Mangan	µg/l	5,6	± 0,176	<10 (LOQ)	-	0,282	-	-
Nickel	µg/l	0,685	± 0,0222	-	-	0,0222	-	-
Blei	µg/l	0,436	± 0,0538	<1 (LOQ)	-	0,0647	-	-
Selen	µg/l	0,139	± 0,0179	-	-	0,0146	-	-
Uran	µg/l	1,08	± 0,0479	0,98	0,15	0,0714	90,9	-1,38
Zink	µg/l	60,3	± 2,32	64	9,6	3,87	106	0,96

Sample: M135B

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	0,633	± 0,265	<10 (LOQ)	-	0,216	-	-
Arsen	µg/l	0,139	± 0,0173	-	-	0,0164	-	-
Cadmium	µg/l	0,0463	± 0,00228	<0,1 (LOQ)	-	0,00215	-	-
Chrom	µg/l	2,08	± 0,0671	2	0,3	0,105	96,3	-0,74
Kupfer	µg/l	4,74	± 0,195	6,2	0,9	0,312	131	4,68
Eisen	µg/l	18,9	± 0,838	16,1	2,7	1,37	85	-2,08
Quecksilber	µg/l	-	± -	<0,1 (LOQ)	-	-	-	-
Mangan	µg/l	98,5	± 3,07	98,4	14,8	5,22	99,9	-0,02
Nickel	µg/l	2,38	± 0,0848	-	-	0,117	-	-
Blei	µg/l	1,01	± 0,0455	<1 (LOQ)	-	0,0625	-	-
Selen	µg/l	2,54	± 0,218	-	-	0,316	-	-
Uran	µg/l	3,33	± 0,131	3,02	0,45	0,201	90,7	-1,54
Zink	µg/l	87,2	± 2,96	97	14,6	4,83	111	2,03



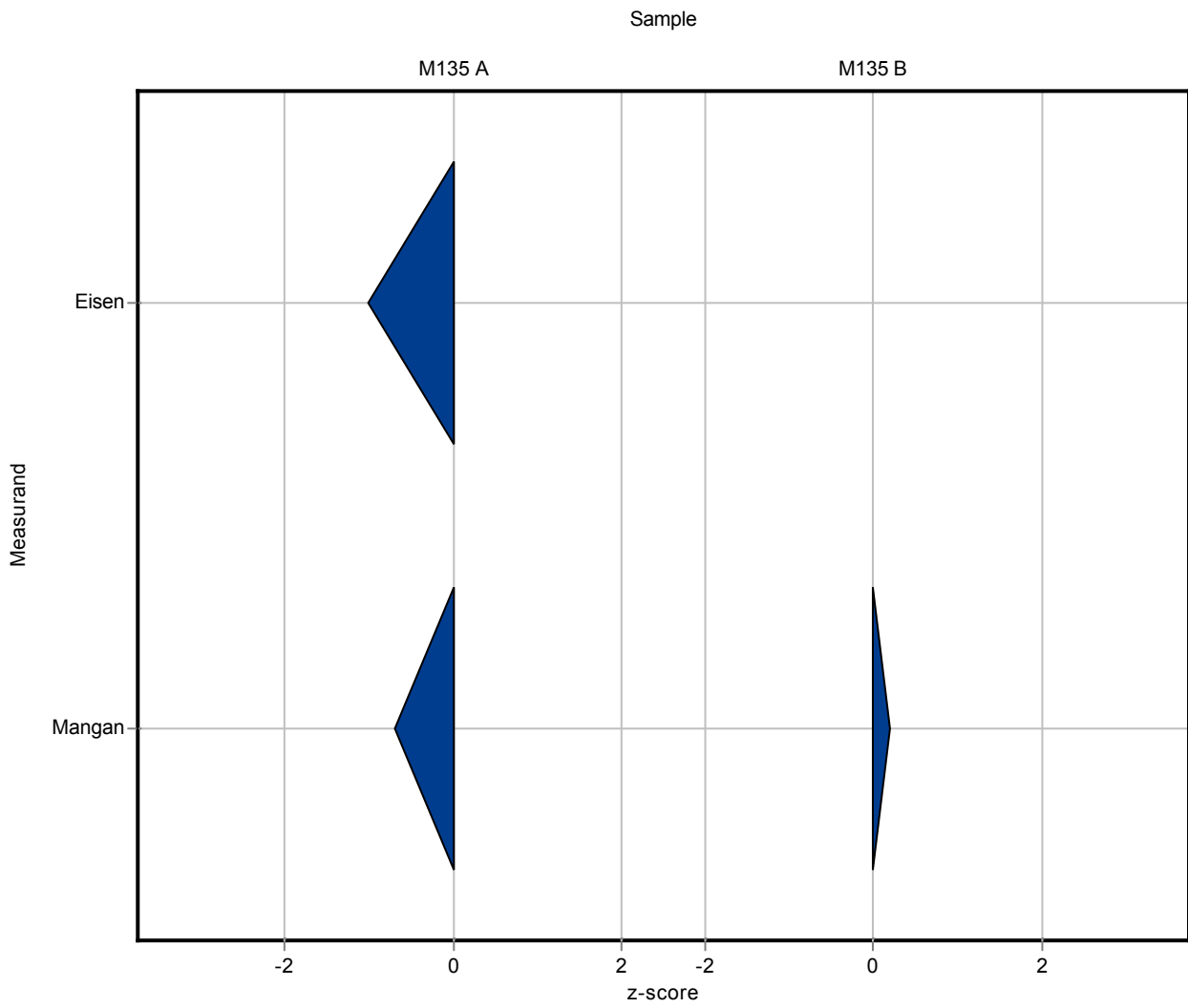
The following results were achieved:

Sample: M135A

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	3,4 ± 0,564	<20 (LOQ)	-	0,677	-	-
Arsen	µg/l	0,608 ± 0,0419	-	-	0,0523	-	-
Cadmium	µg/l	0,0234 ± 0,00308	<0,5 (LOQ)	-	0,00252	-	-
Chrom	µg/l	0,199 ± 0,0147	<5 (LOQ)	-	0,0163	-	-
Kupfer	µg/l	27,2 ± 0,723	<150 (LOQ)	-	1,18	-	-
Eisen	µg/l	26,5 ± 0,924	25	5	1,51	94,3	-1
Quecksilber	µg/l	- ± -	-	-	-	-	-
Mangan	µg/l	5,6 ± 0,176	5,4	1,1	0,282	96,5	-0,7
Nickel	µg/l	0,685 ± 0,0222	<5 (LOQ)	-	0,0222	-	-
Blei	µg/l	0,436 ± 0,0538	<6 (LOQ)	-	0,0647	-	-
Selen	µg/l	0,139 ± 0,0179	-	-	0,0146	-	-
Uran	µg/l	1,08 ± 0,0479	-	-	0,0714	-	-
Zink	µg/l	60,3 ± 2,32	<500 (LOQ)	-	3,87	-	-

Sample: M135B

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	0,633 ± 0,265	<20 (LOQ)	-	0,216	-	-
Arsen	µg/l	0,139 ± 0,0173	-	-	0,0164	-	-
Cadmium	µg/l	0,0463 ± 0,00228	<0,5 (LOQ)	-	0,00215	-	-
Chrom	µg/l	2,08 ± 0,0671	<5 (LOQ)	-	0,105	-	-
Kupfer	µg/l	4,74 ± 0,195	<150 (LOQ)	-	0,312	-	-
Eisen	µg/l	18,9 ± 0,838	<20 (LOQ)	-	1,37	-	-
Quecksilber	µg/l	- ± -	-	-	-	-	-
Mangan	µg/l	98,5 ± 3,07	99,5	19,9	5,22	101	0,19
Nickel	µg/l	2,38 ± 0,0848	<5 (LOQ)	-	0,117	-	-
Blei	µg/l	1,01 ± 0,0455	<6 (LOQ)	-	0,0625	-	-
Selen	µg/l	2,54 ± 0,218	-	-	0,316	-	-
Uran	µg/l	3,33 ± 0,131	-	-	0,201	-	-
Zink	µg/l	87,2 ± 2,96	<500 (LOQ)	-	4,83	-	-



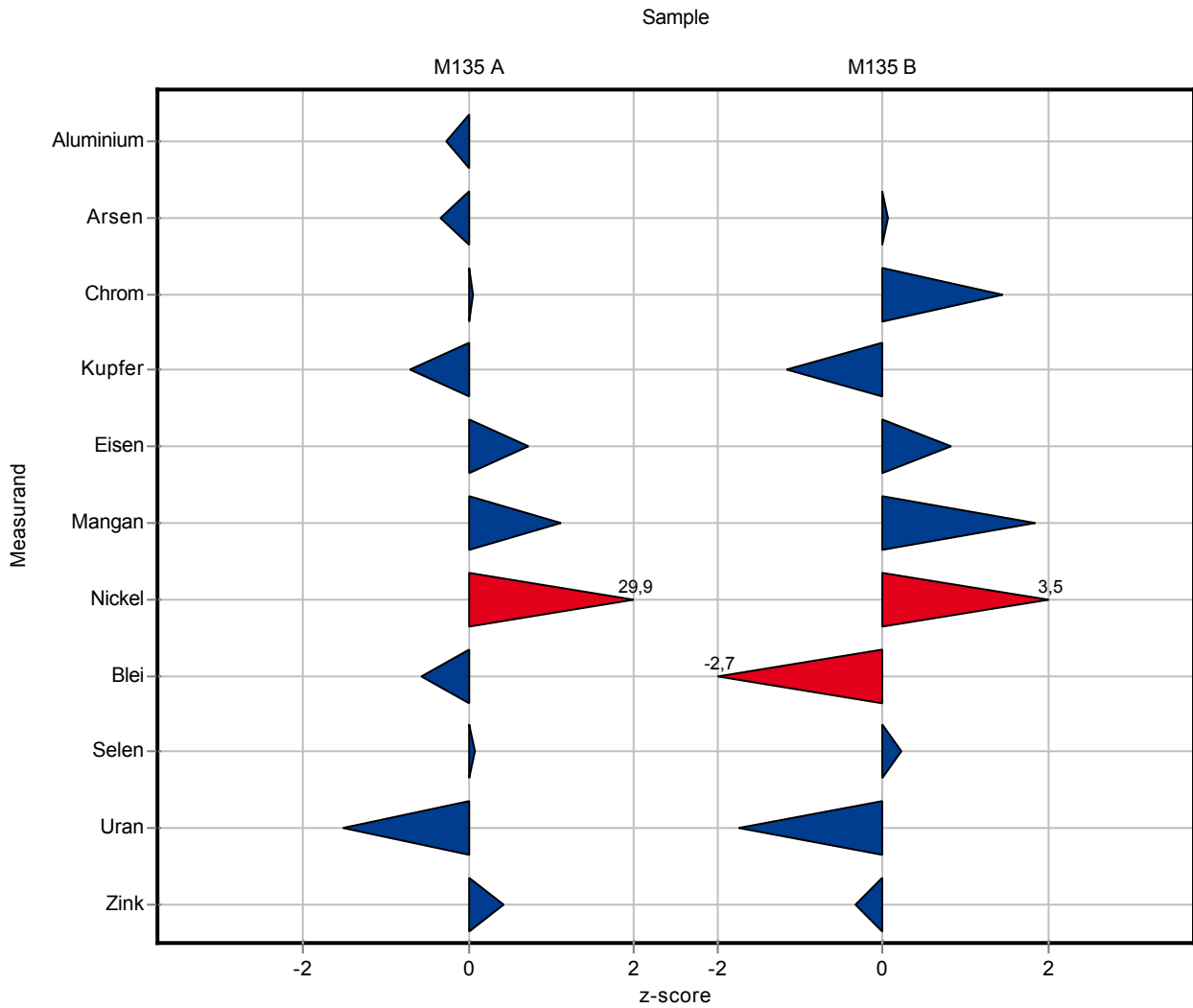
The following results were achieved:

Sample: M135A

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	3,4 ± 0,564	3,21	0,48	0,677	94,5	-0,28
Arsen	µg/l	0,608 ± 0,0419	0,59	0,06	0,0523	97,1	-0,34
Cadmium	µg/l	0,0234 ± 0,00308	<0,1 (LOQ)	-	0,00252	-	-
Chrom	µg/l	0,199 ± 0,0147	0,2	0,03	0,0163	101	0,07
Kupfer	µg/l	27,2 ± 0,723	26,34	3,95	1,18	97	-0,7
Eisen	µg/l	26,5 ± 0,924	27,61	5,54	1,51	104	0,73
Quecksilber	µg/l	- ± -	<0,1 (LOQ)	-	-	-	-
Mangan	µg/l	5,6 ± 0,176	5,91	0,59	0,282	106	1,11
Nickel	µg/l	0,685 ± 0,0222	1,35	0,2	0,0222	197	29,9
Blei	µg/l	0,436 ± 0,0538	0,4	0,04	0,0647	91,7	-0,56
Selen	µg/l	0,139 ± 0,0179	0,14	0,02	0,0146	101	0,08
Uran	µg/l	1,08 ± 0,0479	0,97	0,1	0,0714	89,9	-1,52
Zink	µg/l	60,3 ± 2,32	61,93	6,2	3,87	103	0,42

Sample: M135B

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	0,633 ± 0,265	<2 (LOQ)	-	0,216	-	-
Arsen	µg/l	0,139 ± 0,0173	0,14	0,01	0,0164	101	0,07
Cadmium	µg/l	0,0463 ± 0,00228	<0,1 (LOQ)	-	0,00215	-	-
Chrom	µg/l	2,08 ± 0,0671	2,23	0,33	0,105	107	1,45
Kupfer	µg/l	4,74 ± 0,195	4,38	0,66	0,312	92,4	-1,16
Eisen	µg/l	18,9 ± 0,838	20,06	4,01	1,37	106	0,81
Quecksilber	µg/l	- ± -	<0,1 (LOQ)	-	-	-	-
Mangan	µg/l	98,5 ± 3,07	108,13	10,81	5,22	110	1,85
Nickel	µg/l	2,38 ± 0,0848	2,79	0,42	0,117	117	3,5
Blei	µg/l	1,01 ± 0,0455	0,84	0,08	0,0625	83,1	-2,73
Selen	µg/l	2,54 ± 0,218	2,61	0,39	0,316	103	0,21
Uran	µg/l	3,33 ± 0,131	2,98	0,3	0,201	89,5	-1,74
Zink	µg/l	87,2 ± 2,96	85,58	8,6	4,83	98,1	-0,34



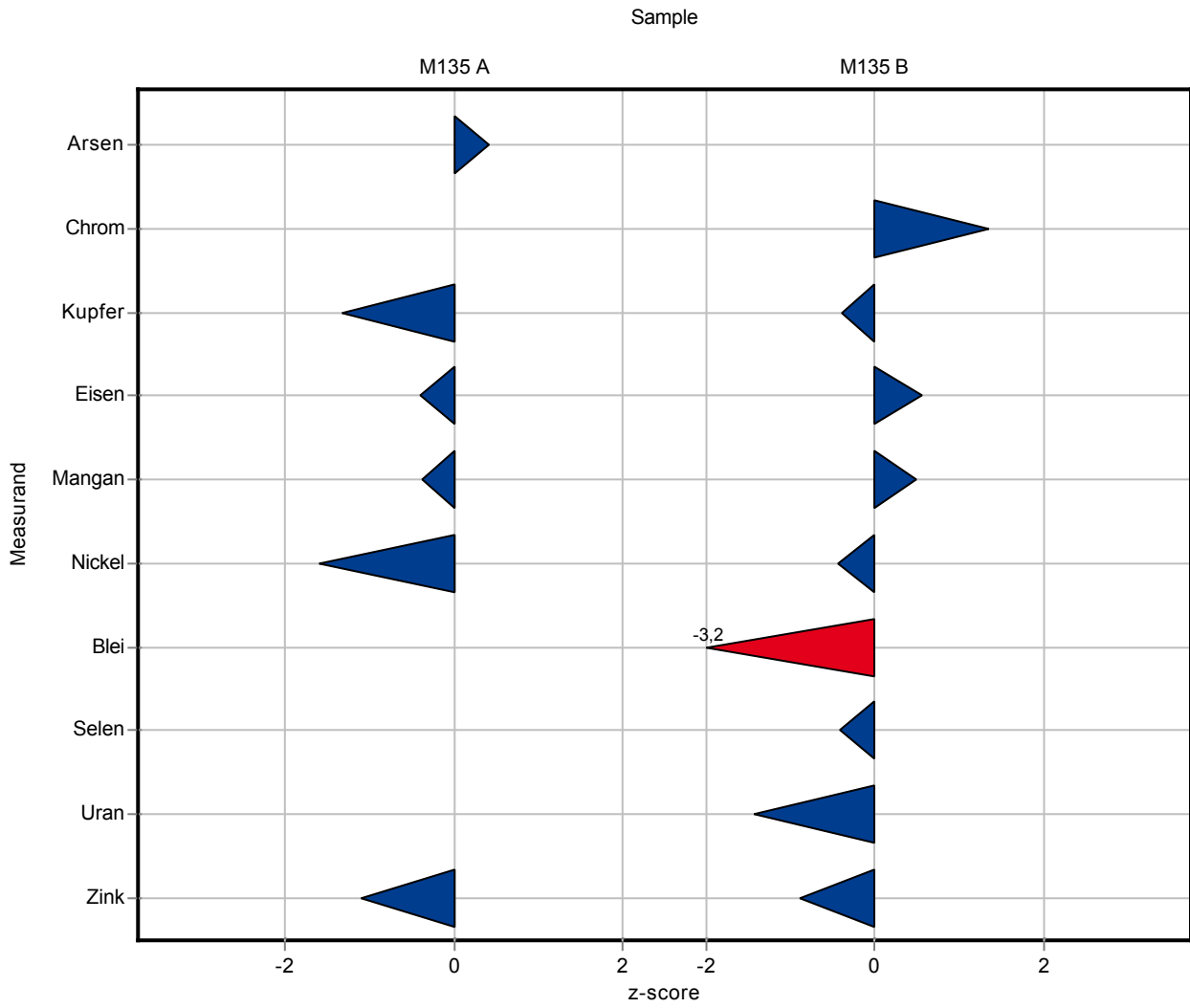
The following results were achieved:

Sample: M135A

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	3,4 ± 0,564	<5 (LOQ)	-	0,677	-	-
Arsen	µg/l	0,608 ± 0,0419	0,63	0,1	0,0523	104	0,43
Cadmium	µg/l	0,0234 ± 0,00308	<0,1 (LOQ)	-	0,00252	-	-
Chrom	µg/l	0,199 ± 0,0147	<1 (LOQ)	-	0,0163	-	-
Kupfer	µg/l	27,2 ± 0,723	25,6	2,6	1,18	94,2	-1,32
Eisen	µg/l	26,5 ± 0,924	25,9	2,6	1,51	97,7	-0,41
Quecksilber	µg/l	- ± -	<0,05 (LOQ)	-	-	-	-
Mangan	µg/l	5,6 ± 0,176	5,49	0,56	0,282	98,1	-0,38
Nickel	µg/l	0,685 ± 0,0222	0,65	0,13	0,0222	94,8	-1,6
Blei	µg/l	0,436 ± 0,0538	<0,5 (LOQ)	-	0,0647	-	-
Selen	µg/l	0,139 ± 0,0179	<1 (LOQ)	-	0,0146	-	-
Uran	µg/l	1,08 ± 0,0479	<1 (LOQ)	-	0,0714	-	-
Zink	µg/l	60,3 ± 2,32	56	5,6	3,87	92,9	-1,11

Sample: M135B

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	0,633 ± 0,265	<5 (LOQ)	-	0,216	-	-
Arsen	µg/l	0,139 ± 0,0173	<0,4 (LOQ)	-	0,0164	-	-
Cadmium	µg/l	0,0463 ± 0,00228	<0,1 (LOQ)	-	0,00215	-	-
Chrom	µg/l	2,08 ± 0,0671	2,22	0,23	0,105	107	1,36
Kupfer	µg/l	4,74 ± 0,195	4,62	0,47	0,312	97,4	-0,39
Eisen	µg/l	18,9 ± 0,838	19,7	2	1,37	104	0,55
Quecksilber	µg/l	- ± -	<0,05 (LOQ)	-	-	-	-
Mangan	µg/l	98,5 ± 3,07	101	10	5,22	103	0,48
Nickel	µg/l	2,38 ± 0,0848	2,33	0,24	0,117	97,8	-0,45
Blei	µg/l	1,01 ± 0,0455	0,81	0,15	0,0625	80,1	-3,21
Selen	µg/l	2,54 ± 0,218	2,41	0,37	0,316	94,8	-0,42
Uran	µg/l	3,33 ± 0,131	3,04	0,31	0,201	91,3	-1,44
Zink	µg/l	87,2 ± 2,96	82,9	8,3	4,83	95,1	-0,89



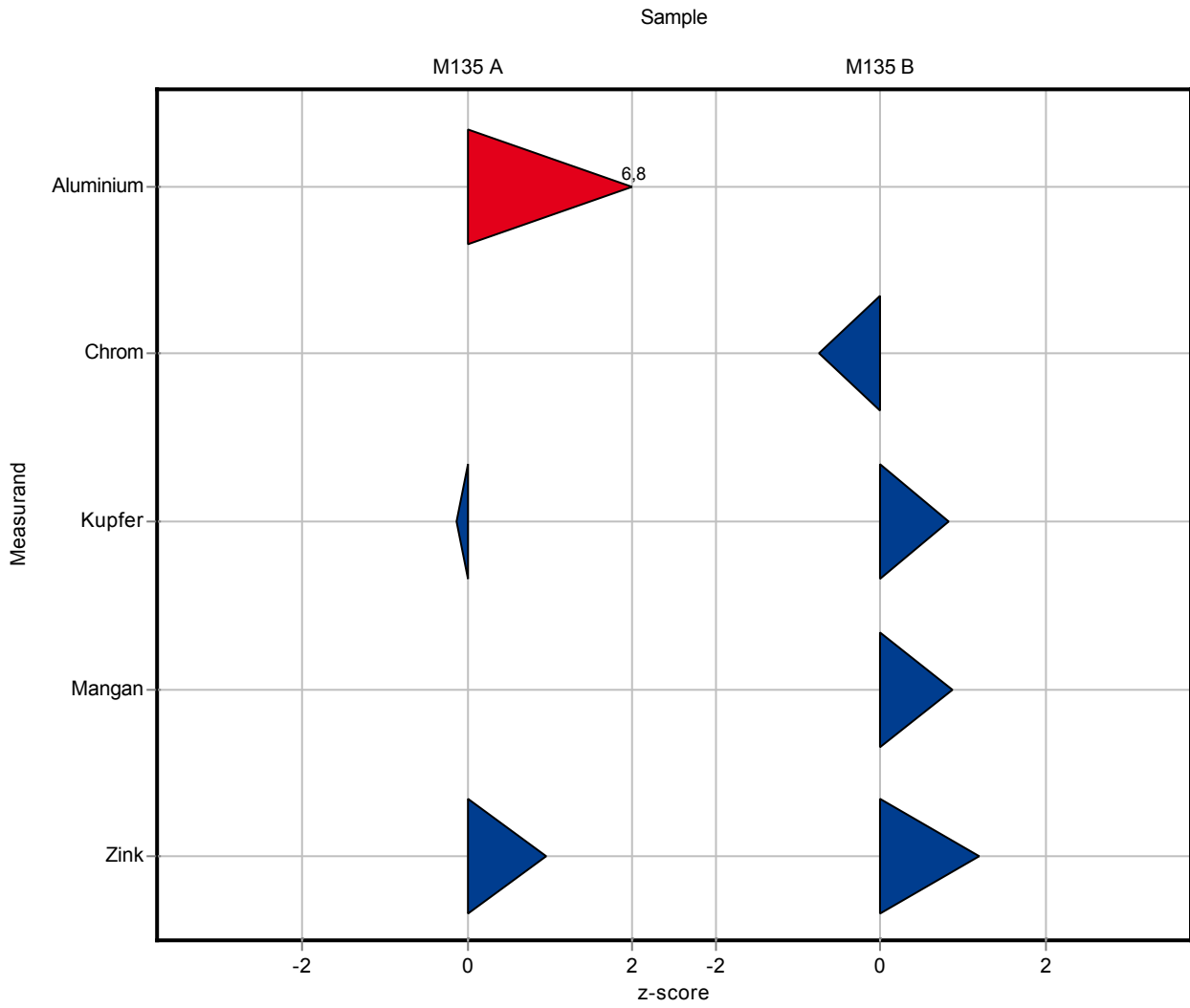
The following results were achieved:

Sample: M135A

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	3,4	± 0,564	8	3	0,677	235	6,79
Arsen	µg/l	0,608	± 0,0419	<1 (LOQ)	-	0,0523	-	-
Cadmium	µg/l	0,0234	± 0,00308	<0,1 (LOQ)	-	0,00252	-	-
Chrom	µg/l	0,199	± 0,0147	<1 (LOQ)	-	0,0163	-	-
Kupfer	µg/l	27,2	± 0,723	27	5	1,18	99,4	-0,14
Eisen	µg/l	26,5	± 0,924	<50 (LOQ)	-	1,51	-	-
Quecksilber	µg/l	-	± -	<0,1 (LOQ)	-	-	-	-
Mangan	µg/l	5,6	± 0,176	<20 (LOQ)	-	0,282	-	-
Nickel	µg/l	0,685	± 0,0222	<2 (LOQ)	-	0,0222	-	-
Blei	µg/l	0,436	± 0,0538	<2 (LOQ)	-	0,0647	-	-
Selen	µg/l	0,139	± 0,0179	-	-	0,0146	-	-
Uran	µg/l	1,08	± 0,0479	-	-	0,0714	-	-
Zink	µg/l	60,3	± 2,32	64	10	3,87	106	0,96

Sample: M135B

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	0,633	± 0,265	<5 (LOQ)	-	0,216	-	-
Arsen	µg/l	0,139	± 0,0173	<1 (LOQ)	-	0,0164	-	-
Cadmium	µg/l	0,0463	± 0,00228	<0,1 (LOQ)	-	0,00215	-	-
Chrom	µg/l	2,08	± 0,0671	2	1	0,105	96,3	-0,74
Kupfer	µg/l	4,74	± 0,195	5	2	0,312	105	0,83
Eisen	µg/l	18,9	± 0,838	<50 (LOQ)	-	1,37	-	-
Quecksilber	µg/l	-	± -	<0,1 (LOQ)	-	-	-	-
Mangan	µg/l	98,5	± 3,07	103	15	5,22	105	0,86
Nickel	µg/l	2,38	± 0,0848	<2 (LOQ)	-	0,117	-	-
Blei	µg/l	1,01	± 0,0455	<2 (LOQ)	-	0,0625	-	-
Selen	µg/l	2,54	± 0,218	-	-	0,316	-	-
Uran	µg/l	3,33	± 0,131	-	-	0,201	-	-
Zink	µg/l	87,2	± 2,96	93	15	4,83	107	1,2



The following results were achieved:

Sample: M135A

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	3,4 ± 0,564	-	-	0,677	-	-
Arsen	µg/l	0,608 ± 0,0419	-	-	0,0523	-	-
Cadmium	µg/l	0,0234 ± 0,00308	-	-	0,00252	-	-
Chrom	µg/l	0,199 ± 0,0147	-	-	0,0163	-	-
Kupfer	µg/l	27,2 ± 0,723	-	-	1,18	-	-
Eisen	µg/l	26,5 ± 0,924	-	-	1,51	-	-
Quecksilber	µg/l	- ± -	-	-	-	-	-
Mangan	µg/l	5,6 ± 0,176	-	-	0,282	-	-
Nickel	µg/l	0,685 ± 0,0222	-	-	0,0222	-	-
Blei	µg/l	0,436 ± 0,0538	-	-	0,0647	-	-
Selen	µg/l	0,139 ± 0,0179	-	-	0,0146	-	-
Uran	µg/l	1,08 ± 0,0479	-	-	0,0714	-	-
Zink	µg/l	60,3 ± 2,32	-	-	3,87	-	-

Sample: M135B

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	0,633 ± 0,265	-	-	0,216	-	-
Arsen	µg/l	0,139 ± 0,0173	-	-	0,0164	-	-
Cadmium	µg/l	0,0463 ± 0,00228	-	-	0,00215	-	-
Chrom	µg/l	2,08 ± 0,0671	-	-	0,105	-	-
Kupfer	µg/l	4,74 ± 0,195	-	-	0,312	-	-
Eisen	µg/l	18,9 ± 0,838	-	-	1,37	-	-
Quecksilber	µg/l	- ± -	-	-	-	-	-
Mangan	µg/l	98,5 ± 3,07	-	-	5,22	-	-
Nickel	µg/l	2,38 ± 0,0848	-	-	0,117	-	-
Blei	µg/l	1,01 ± 0,0455	-	-	0,0625	-	-
Selen	µg/l	2,54 ± 0,218	-	-	0,316	-	-
Uran	µg/l	3,33 ± 0,131	-	-	0,201	-	-
Zink	µg/l	87,2 ± 2,96	-	-	4,83	-	-

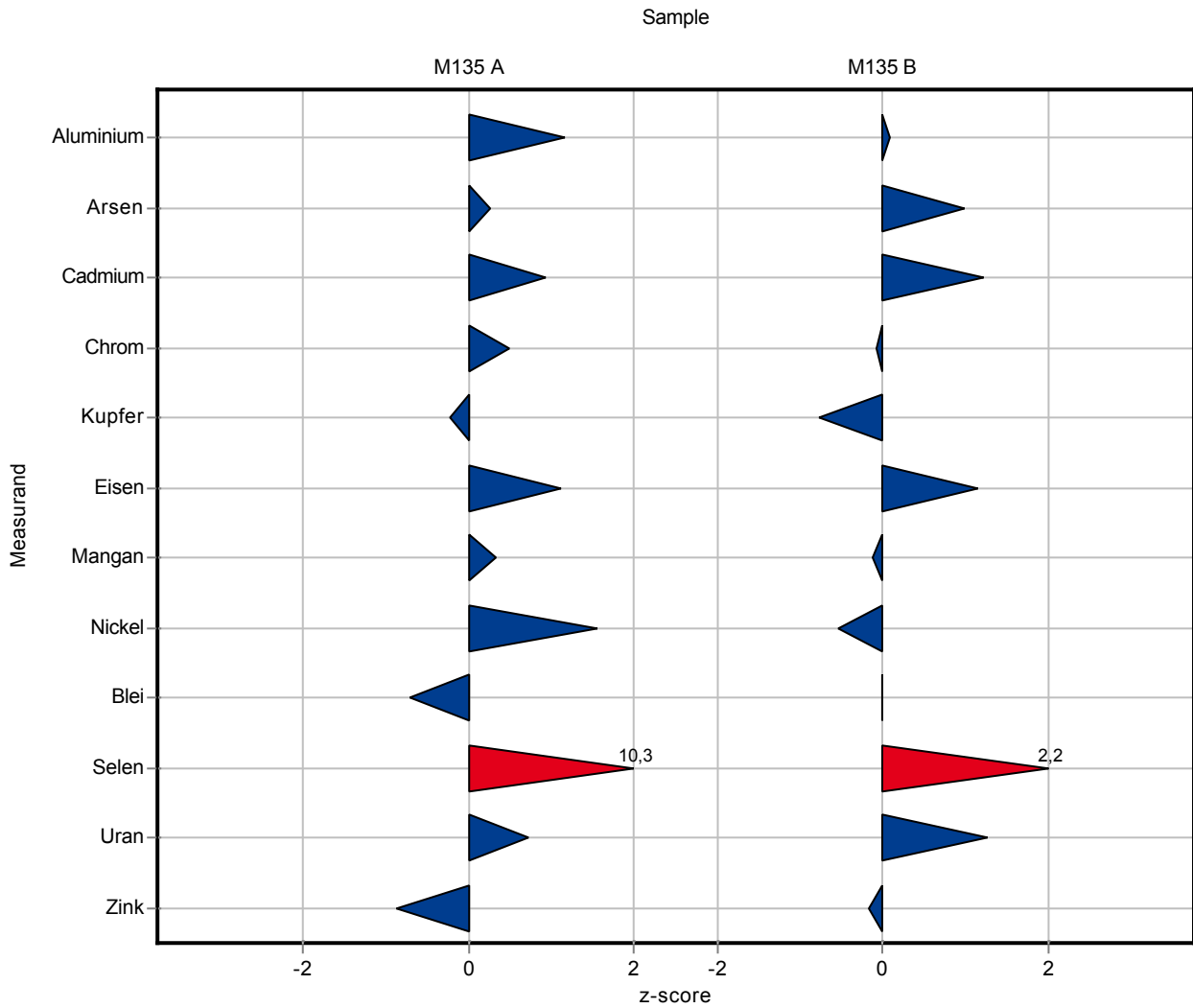
The following results were achieved:

Sample: M135A

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	3,4	± 0,564	4,19	1,05	0,677	123	1,17
Arsen	µg/l	0,608	± 0,0419	0,622	0,156	0,0523	102	0,27
Cadmium	µg/l	0,0234	± 0,00308	0,0258	0,006	0,00252	110	0,94
Chrom	µg/l	0,199	± 0,0147	0,207	0,052	0,0163	104	0,5
Kupfer	µg/l	27,2	± 0,723	26,9	6,7	1,18	99	-0,22
Eisen	µg/l	26,5	± 0,924	28,2	7,1	1,51	106	1,12
Quecksilber	µg/l	-	± -	<0,1 (LOQ)	-	-	-	-
Mangan	µg/l	5,6	± 0,176	5,69	1,42	0,282	102	0,33
Nickel	µg/l	0,685	± 0,0222	0,72	0,18	0,0222	105	1,55
Blei	µg/l	0,436	± 0,0538	0,39	0,098	0,0647	89,4	-0,71
Selen	µg/l	0,139	± 0,0179	0,29	0,073	0,0146	209	10,3
Uran	µg/l	1,08	± 0,0479	1,13	0,28	0,0714	105	0,72
Zink	µg/l	60,3	± 2,32	56,9	14,2	3,87	94,4	-0,87

Sample: M135B

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	0,633	± 0,265	0,65	0,163	0,216	103	0,08
Arsen	µg/l	0,139	± 0,0173	0,155	0,039	0,0164	112	0,99
Cadmium	µg/l	0,0463	± 0,00228	0,0489	0,0122	0,00215	106	1,22
Chrom	µg/l	2,08	± 0,0671	2,07	0,52	0,105	99,6	-0,07
Kupfer	µg/l	4,74	± 0,195	4,5	1,13	0,312	94,9	-0,77
Eisen	µg/l	18,9	± 0,838	20,5	5,1	1,37	108	1,13
Quecksilber	µg/l	-	± -	<0,1 (LOQ)	-	-	-	-
Mangan	µg/l	98,5	± 3,07	97,9	24,5	5,22	99,4	-0,12
Nickel	µg/l	2,38	± 0,0848	2,32	0,58	0,117	97,4	-0,53
Blei	µg/l	1,01	± 0,0455	1,01	0,25	0,0625	99,9	-0,01
Selen	µg/l	2,54	± 0,218	3,24	0,81	0,316	127	2,21
Uran	µg/l	3,33	± 0,131	3,58	0,9	0,201	108	1,25
Zink	µg/l	87,2	± 2,96	86,4	21,6	4,83	99,1	-0,17



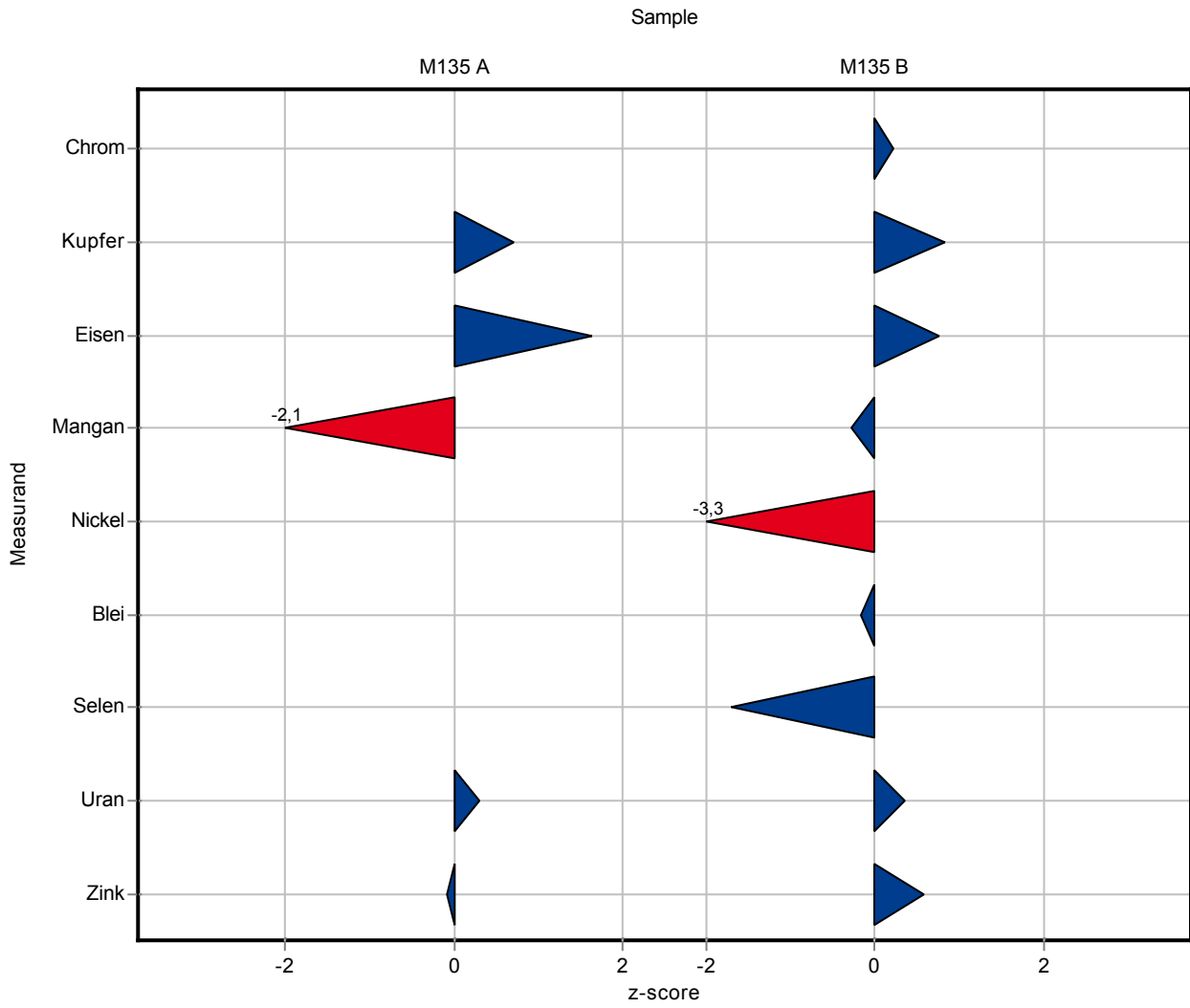
The following results were achieved:

Sample: M135A

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	3,4	± 0,564	<10 (LOQ)	-	0,677	-	-
Arsen	µg/l	0,608	± 0,0419	<1 (LOQ)	-	0,0523	-	-
Cadmium	µg/l	0,0234	± 0,00308	<0,05 (LOQ)	-	0,00252	-	-
Chrom	µg/l	0,199	± 0,0147	<0,5 (LOQ)	-	0,0163	-	-
Kupfer	µg/l	27,2	± 0,723	28	3	1,18	103	0,71
Eisen	µg/l	26,5	± 0,924	29	5	1,51	109	1,65
Quecksilber	µg/l	-	± -	<0,01 (LOQ)	-	-	-	-
Mangan	µg/l	5,6	± 0,176	5	1	0,282	89,3	-2,12
Nickel	µg/l	0,685	± 0,0222	<1 (LOQ)	-	0,0222	-	-
Blei	µg/l	0,436	± 0,0538	<0,5 (LOQ)	-	0,0647	-	-
Selen	µg/l	0,139	± 0,0179	<1 (LOQ)	-	0,0146	-	-
Uran	µg/l	1,08	± 0,0479	1,1	0,2	0,0714	102	0,3
Zink	µg/l	60,3	± 2,32	60	6	3,87	99,5	-0,07

Sample: M135B

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	0,633	± 0,265	<10 (LOQ)	-	0,216	-	-
Arsen	µg/l	0,139	± 0,0173	<1 (LOQ)	-	0,0164	-	-
Cadmium	µg/l	0,0463	± 0,00228	<0,05 (LOQ)	-	0,00215	-	-
Chrom	µg/l	2,08	± 0,0671	2,1	0,2	0,105	101	0,21
Kupfer	µg/l	4,74	± 0,195	5	1	0,312	105	0,83
Eisen	µg/l	18,9	± 0,838	20	2	1,37	106	0,77
Quecksilber	µg/l	-	± -	<0,01 (LOQ)	-	-	-	-
Mangan	µg/l	98,5	± 3,07	97	10	5,22	98,5	-0,29
Nickel	µg/l	2,38	± 0,0848	2	0,5	0,117	84	-3,28
Blei	µg/l	1,01	± 0,0455	1	0,2	0,0625	98,9	-0,17
Selen	µg/l	2,54	± 0,218	2	1	0,316	78,7	-1,72
Uran	µg/l	3,33	± 0,131	3,4	0,3	0,201	102	0,35
Zink	µg/l	87,2	± 2,96	90	9	4,83	103	0,58



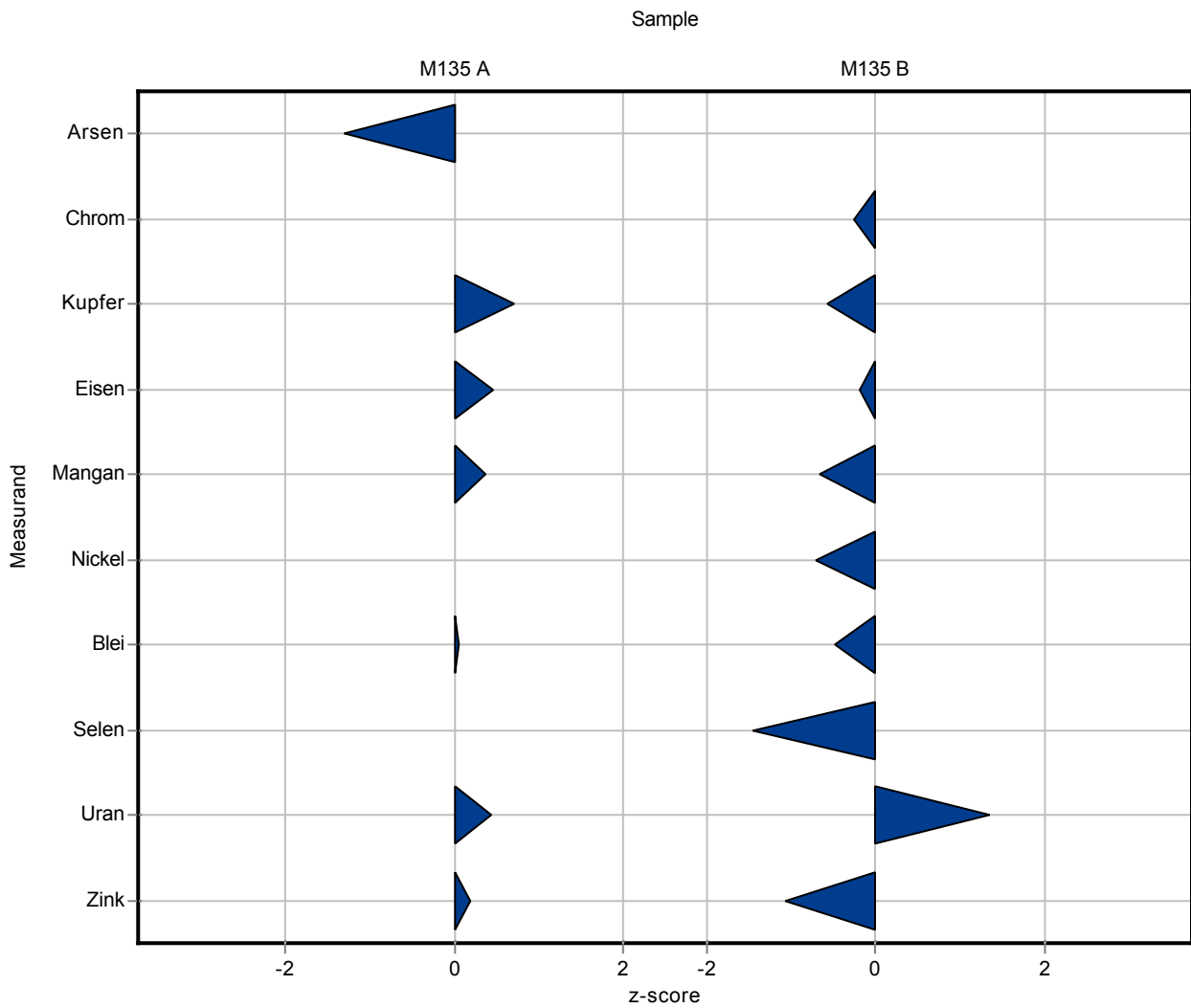
The following results were achieved:

Sample: M135A

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	3,4	± 0,564	<5 (LOQ)	-	0,677	-	-
Arsen	µg/l	0,608	± 0,0419	0,54	0,08	0,0523	88,9	-1,29
Cadmium	µg/l	0,0234	± 0,00308	<0,1 (LOQ)	-	0,00252	-	-
Chrom	µg/l	0,199	± 0,0147	<0,5 (LOQ)	-	0,0163	-	-
Kupfer	µg/l	27,2	± 0,723	28	3,4	1,18	103	0,71
Eisen	µg/l	26,5	± 0,924	27,2	2,2	1,51	103	0,46
Quecksilber	µg/l	-	± -	<0,2 (LOQ)	-	-	-	-
Mangan	µg/l	5,6	± 0,176	5,7	0,5	0,282	102	0,37
Nickel	µg/l	0,685	± 0,0222	<1 (LOQ)	-	0,0222	-	-
Blei	µg/l	0,436	± 0,0538	0,44	0,05	0,0647	101	0,06
Selen	µg/l	0,139	± 0,0179	<0,2 (LOQ)	-	0,0146	-	-
Uran	µg/l	1,08	± 0,0479	1,11	0,17	0,0714	103	0,44
Zink	µg/l	60,3	± 2,32	61	9	3,87	101	0,18

Sample: M135B

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	0,633	± 0,265	<5 (LOQ)	-	0,216	-	-
Arsen	µg/l	0,139	± 0,0173	<0,5 (LOQ)	-	0,0164	-	-
Cadmium	µg/l	0,0463	± 0,00228	<0,1 (LOQ)	-	0,00215	-	-
Chrom	µg/l	2,08	± 0,0671	2,05	0,18	0,105	98,7	-0,26
Kupfer	µg/l	4,74	± 0,195	4,56	0,36	0,312	96,2	-0,58
Eisen	µg/l	18,9	± 0,838	18,7	1,5	1,37	98,7	-0,18
Quecksilber	µg/l	-	± -	<0,2 (LOQ)	-	-	-	-
Mangan	µg/l	98,5	± 3,07	95	8	5,22	96,4	-0,67
Nickel	µg/l	2,38	± 0,0848	2,3	0,28	0,117	96,6	-0,7
Blei	µg/l	1,01	± 0,0455	0,98	0,12	0,0625	97	-0,49
Selen	µg/l	2,54	± 0,218	2,08	0,21	0,316	81,8	-1,46
Uran	µg/l	3,33	± 0,131	3,6	0,5	0,201	108	1,35
Zink	µg/l	87,2	± 2,96	82	12	4,83	94	-1,08



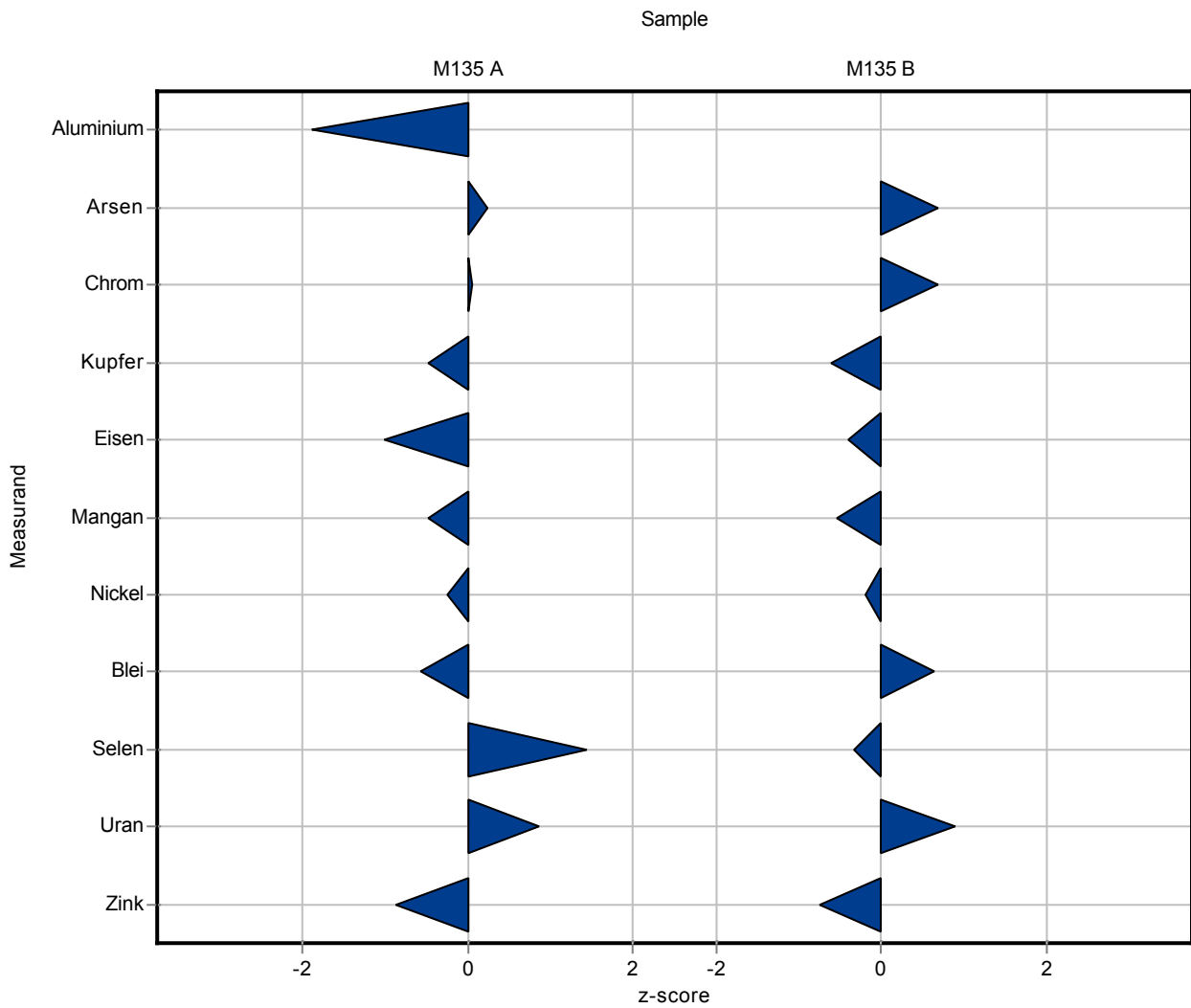
The following results were achieved:

Sample: M135A

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	3,4 ± 0,564	2,12	0,103	0,677	62,4	-1,89
Arsen	µg/l	0,608 ± 0,0419	0,62	0,025	0,0523	102	0,24
Cadmium	µg/l	0,0234 ± 0,00308	<0,1 (LOQ)	-	0,00252	-	-
Chrom	µg/l	0,199 ± 0,0147	0,2	0,01	0,0163	101	0,07
Kupfer	µg/l	27,2 ± 0,723	26,61	0,731	1,18	98	-0,47
Eisen	µg/l	26,5 ± 0,924	25	1	1,51	94,3	-1
Quecksilber	µg/l	- ± -	<0,02 (LOQ)	-	-	-	-
Mangan	µg/l	5,6 ± 0,176	5,46	0,152	0,282	97,6	-0,49
Nickel	µg/l	0,685 ± 0,0222	0,68	0,023	0,0222	99,2	-0,25
Blei	µg/l	0,436 ± 0,0538	0,4	0,004	0,0647	91,7	-0,56
Selen	µg/l	0,139 ± 0,0179	0,16	0,02	0,0146	115	1,44
Uran	µg/l	1,08 ± 0,0479	1,14	0,011	0,0714	106	0,86
Zink	µg/l	60,3 ± 2,32	56,92	1,767	3,87	94,4	-0,87

Sample: M135B

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	0,633 ± 0,265	<1 (LOQ)	-	0,216	-	-
Arsen	µg/l	0,139 ± 0,0173	0,15	0,01	0,0164	108	0,68
Cadmium	µg/l	0,0463 ± 0,00228	<0,1 (LOQ)	-	0,00215	-	-
Chrom	µg/l	2,08 ± 0,0671	2,15	0,09	0,105	103	0,69
Kupfer	µg/l	4,74 ± 0,195	4,55	0,19	0,312	96	-0,61
Eisen	µg/l	18,9 ± 0,838	18,4	1	1,37	97,1	-0,4
Quecksilber	µg/l	- ± -	<0,02 (LOQ)	-	-	-	-
Mangan	µg/l	98,5 ± 3,07	95,7	4,02	5,22	97,2	-0,54
Nickel	µg/l	2,38 ± 0,0848	2,36	0,1	0,117	99,1	-0,19
Blei	µg/l	1,01 ± 0,0455	1,05	0,02	0,0625	104	0,63
Selen	µg/l	2,54 ± 0,218	2,44	0,13	0,316	96	-0,33
Uran	µg/l	3,33 ± 0,131	3,51	0,05	0,201	105	0,9
Zink	µg/l	87,2 ± 2,96	83,63	3,37	4,83	95,9	-0,74



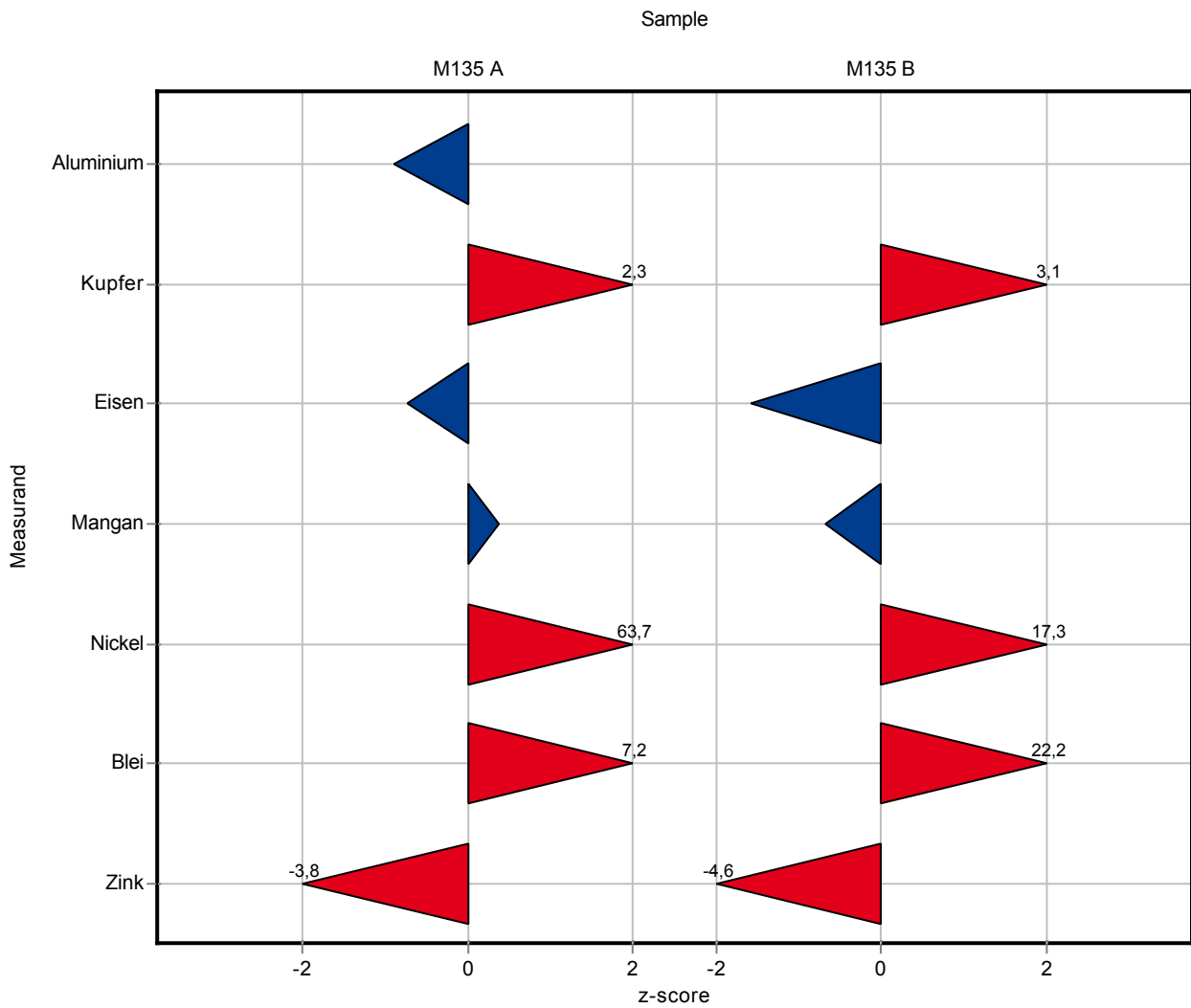
The following results were achieved:

Sample: M135A

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	3,4	± 0,564	2,8	0,2	0,677	82,4	-0,88
Arsen	µg/l	0,608	± 0,0419	<1 (LOQ)	-	0,0523	-	-
Cadmium	µg/l	0,0234	± 0,00308	<1 (LOQ)	-	0,00252	-	-
Chrom	µg/l	0,199	± 0,0147	<10 (LOQ)	-	0,0163	-	-
Kupfer	µg/l	27,2	± 0,723	29,9	2,09	1,18	110	2,32
Eisen	µg/l	26,5	± 0,924	25,4	1,78	1,51	95,8	-0,74
Quecksilber	µg/l	-	± -	<0,2 (LOQ)	-	-	-	-
Mangan	µg/l	5,6	± 0,176	5,7	0,4	0,282	102	0,37
Nickel	µg/l	0,685	± 0,0222	2,1	0,15	0,0222	306	63,7
Blei	µg/l	0,436	± 0,0538	0,9	0,063	0,0647	206	7,17
Selen	µg/l	0,139	± 0,0179	<5 (LOQ)	-	0,0146	-	-
Uran	µg/l	1,08	± 0,0479	-	-	0,0714	-	-
Zink	µg/l	60,3	± 2,32	45,6	3,19	3,87	75,6	-3,79

Sample: M135B

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	0,633	± 0,265	<1 (LOQ)	-	0,216	-	-
Arsen	µg/l	0,139	± 0,0173	<1 (LOQ)	-	0,0164	-	-
Cadmium	µg/l	0,0463	± 0,00228	<1 (LOQ)	-	0,00215	-	-
Chrom	µg/l	2,08	± 0,0671	<10 (LOQ)	-	0,105	-	-
Kupfer	µg/l	4,74	± 0,195	5,7	0,4	0,312	120	3,07
Eisen	µg/l	18,9	± 0,838	16,8	1,18	1,37	88,7	-1,57
Quecksilber	µg/l	-	± -	<0,2 (LOQ)	-	-	-	-
Mangan	µg/l	98,5	± 3,07	95	6,65	5,22	96,4	-0,67
Nickel	µg/l	2,38	± 0,0848	4,4	0,31	0,117	185	17,3
Blei	µg/l	1,01	± 0,0455	2,4	0,17	0,0625	237	22,2
Selen	µg/l	2,54	± 0,218	<5 (LOQ)	-	0,316	-	-
Uran	µg/l	3,33	± 0,131	-	-	0,201	-	-
Zink	µg/l	87,2	± 2,96	65,2	4,56	4,83	74,8	-4,55



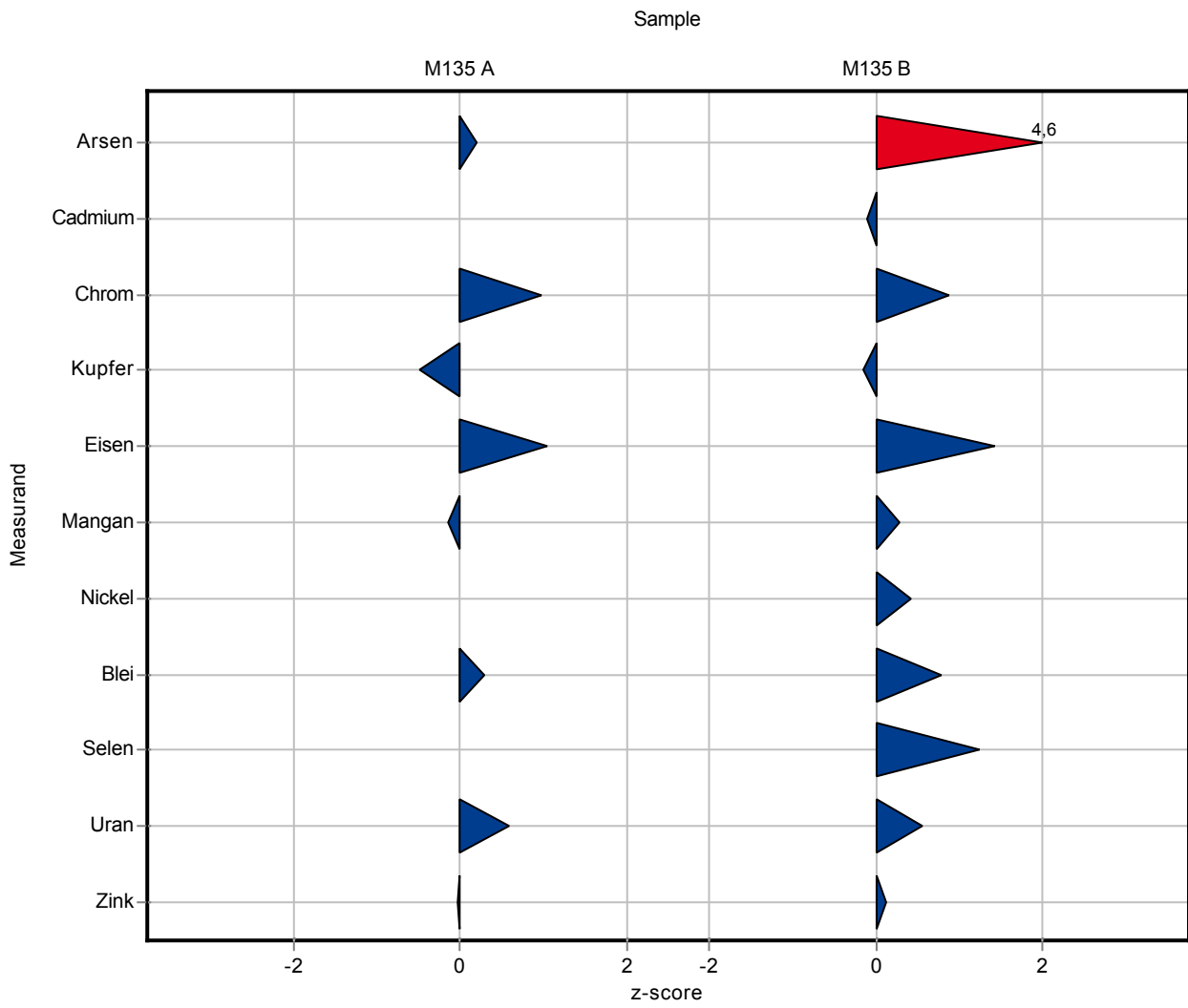
The following results were achieved:

Sample: M135A

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	3,4	± 0,564	<10 (LOQ)	-	0,677	-	-
Arsen	µg/l	0,608	± 0,0419	0,618	0,037	0,0523	102	0,2
Cadmium	µg/l	0,0234	± 0,00308	<0,025 (LOQ)	-	0,00252	-	-
Chrom	µg/l	0,199	± 0,0147	0,215	0,0215	0,0163	108	0,99
Kupfer	µg/l	27,2	± 0,723	26,6	2,13	1,18	97,9	-0,48
Eisen	µg/l	26,5	± 0,924	28,1	4,22	1,51	106	1,05
Quecksilber	µg/l	-	± -	<0,01 (LOQ)	-	-	-	-
Mangan	µg/l	5,6	± 0,176	5,56	0,445	0,282	99,3	-0,13
Nickel	µg/l	0,685	± 0,0222	<1 (LOQ)	-	0,0222	-	-
Blei	µg/l	0,436	± 0,0538	0,455	0,0228	0,0647	104	0,29
Selen	µg/l	0,139	± 0,0179	<1 (LOQ)	-	0,0146	-	-
Uran	µg/l	1,08	± 0,0479	1,12	0,168	0,0714	104	0,58
Zink	µg/l	60,3	± 2,32	60,2	4,21	3,87	99,9	-0,02

Sample: M135B

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	0,633	± 0,265	<10 (LOQ)	-	0,216	-	-
Arsen	µg/l	0,139	± 0,0173	0,214	0,0128	0,0164	154	4,6
Cadmium	µg/l	0,0463	± 0,00228	0,046	0,0023	0,00215	99,4	-0,12
Chrom	µg/l	2,08	± 0,0671	2,17	0,217	0,105	104	0,88
Kupfer	µg/l	4,74	± 0,195	4,69	0,375	0,312	98,9	-0,16
Eisen	µg/l	18,9	± 0,838	20,9	3,14	1,37	110	1,43
Quecksilber	µg/l	-	± -	<0,01 (LOQ)	-	-	-	-
Mangan	µg/l	98,5	± 3,07	100	8	5,22	102	0,29
Nickel	µg/l	2,38	± 0,0848	2,43	0,17	0,117	102	0,41
Blei	µg/l	1,01	± 0,0455	1,06	0,053	0,0625	105	0,79
Selen	µg/l	2,54	± 0,218	2,93	0,205	0,316	115	1,23
Uran	µg/l	3,33	± 0,131	3,44	0,516	0,201	103	0,55
Zink	µg/l	87,2	± 2,96	87,8	6,15	4,83	101	0,13



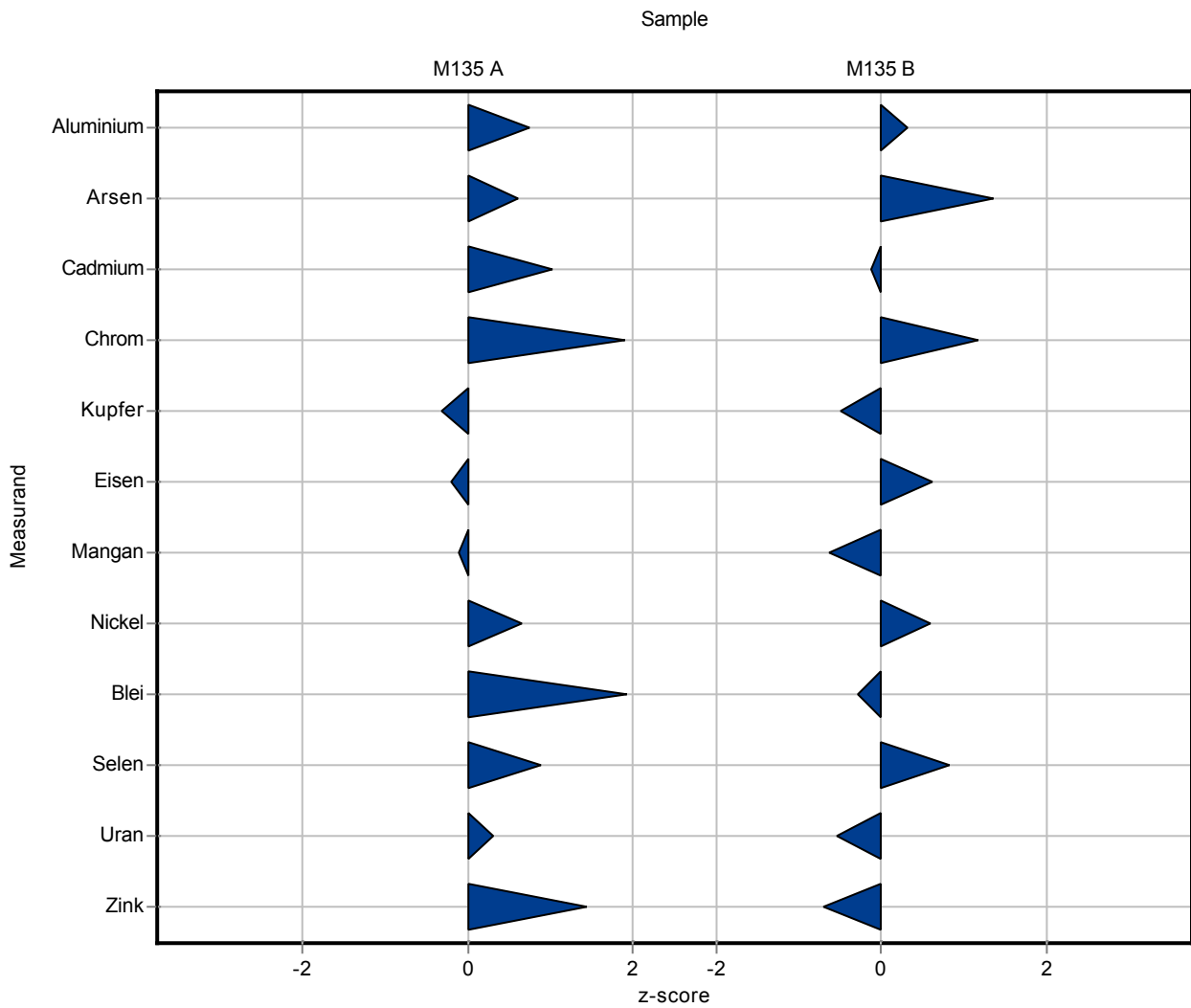
The following results were achieved:

Sample: M135A

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	3,4	± 0,564	3,91	0,196	0,677	115	0,76
Arsen	µg/l	0,608	± 0,0419	0,64	0,032	0,0523	105	0,62
Cadmium	µg/l	0,0234	± 0,00308	0,026	0,0013	0,00252	111	1,02
Chrom	µg/l	0,199	± 0,0147	0,23	0,0115	0,0163	116	1,91
Kupfer	µg/l	27,2	± 0,723	26,8	1,34	1,18	98,7	-0,31
Eisen	µg/l	26,5	± 0,924	26,2	1,31	1,51	98,8	-0,21
Quecksilber	µg/l	-	± -	<0,05 (LOQ)	-	-	-	-
Mangan	µg/l	5,6	± 0,176	5,57	0,28	0,282	99,5	-0,1
Nickel	µg/l	0,685	± 0,0222	0,7	0,035	0,0222	102	0,65
Blei	µg/l	0,436	± 0,0538	0,56	0,028	0,0647	128	1,92
Selen	µg/l	0,139	± 0,0179	0,152	0,0076	0,0146	109	0,9
Uran	µg/l	1,08	± 0,0479	1,1	0,055	0,0714	102	0,3
Zink	µg/l	60,3	± 2,32	65,9	3,3	3,87	109	1,45

Sample: M135B

Parameter	Unit	Target	± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	0,633	± 0,265	0,7	0,035	0,216	111	0,31
Arsen	µg/l	0,139	± 0,0173	0,161	0,0081	0,0164	116	1,36
Cadmium	µg/l	0,0463	± 0,00228	0,046	0,0023	0,00215	99,4	-0,12
Chrom	µg/l	2,08	± 0,0671	2,2	0,11	0,105	106	1,17
Kupfer	µg/l	4,74	± 0,195	4,59	0,23	0,312	96,8	-0,48
Eisen	µg/l	18,9	± 0,838	19,8	0,99	1,37	104	0,62
Quecksilber	µg/l	-	± -	<0,05 (LOQ)	-	-	-	-
Mangan	µg/l	98,5	± 3,07	95,2	4,76	5,22	96,7	-0,63
Nickel	µg/l	2,38	± 0,0848	2,45	0,12	0,117	103	0,58
Blei	µg/l	1,01	± 0,0455	0,993	0,05	0,0625	98,3	-0,28
Selen	µg/l	2,54	± 0,218	2,8	0,14	0,316	110	0,81
Uran	µg/l	3,33	± 0,131	3,22	0,16	0,201	96,7	-0,54
Zink	µg/l	87,2	± 2,96	83,8	4,19	4,83	96,1	-0,7



The following results were achieved:

Sample: M135A

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	3,4 ± 0,564	<8 (LOQ)	-	0,677	-	-
Arsen	µg/l	0,608 ± 0,0419	<1 (LOQ)	-	0,0523	-	-
Cadmium	µg/l	0,0234 ± 0,00308	<0,1 (LOQ)	-	0,00252	-	-
Chrom	µg/l	0,199 ± 0,0147	<1 (LOQ)	-	0,0163	-	-
Kupfer	µg/l	27,2 ± 0,723	27,34	4,1	1,18	101	0,15
Eisen	µg/l	26,5 ± 0,924	26,6	4	1,51	100	0,06
Quecksilber	µg/l	- ± -	<0,1 (LOQ)	-	-	-	-
Mangan	µg/l	5,6 ± 0,176	5,46	0,55	0,282	97,6	-0,49
Nickel	µg/l	0,685 ± 0,0222	<1 (LOQ)	-	0,0222	-	-
Blei	µg/l	0,436 ± 0,0538	<1 (LOQ)	-	0,0647	-	-
Selen	µg/l	0,139 ± 0,0179	<1 (LOQ)	-	0,0146	-	-
Uran	µg/l	1,08 ± 0,0479	-	-	0,0714	-	-
Zink	µg/l	60,3 ± 2,32	58,8	5,9	3,87	97,5	-0,38

Sample: M135B

Parameter	Unit	Target ± CI(99%)	Result	± U	Criteria	Recovery	z-score
Aluminium	µg/l	0,633 ± 0,265	<8 (LOQ)	-	0,216	-	-
Arsen	µg/l	0,139 ± 0,0173	<1 (LOQ)	-	0,0164	-	-
Cadmium	µg/l	0,0463 ± 0,00228	<0,1 (LOQ)	-	0,00215	-	-
Chrom	µg/l	2,08 ± 0,0671	1,85	0,28	0,105	89,1	-2,17
Kupfer	µg/l	4,74 ± 0,195	4,81	0,72	0,312	101	0,22
Eisen	µg/l	18,9 ± 0,838	18,2	2,7	1,37	96,1	-0,55
Quecksilber	µg/l	- ± -	<0,1 (LOQ)	-	-	-	-
Mangan	µg/l	98,5 ± 3,07	95,6	9,6	5,22	97,1	-0,56
Nickel	µg/l	2,38 ± 0,0848	2,1	0,42	0,117	88,2	-2,42
Blei	µg/l	1,01 ± 0,0455	1,11	0,22	0,0625	110	1,59
Selen	µg/l	2,54 ± 0,218	2,22	0,44	0,316	87,3	-1,02
Uran	µg/l	3,33 ± 0,131	-	-	0,201	-	-
Zink	µg/l	87,2 ± 2,96	87,4	8,7	4,83	100	0,04

