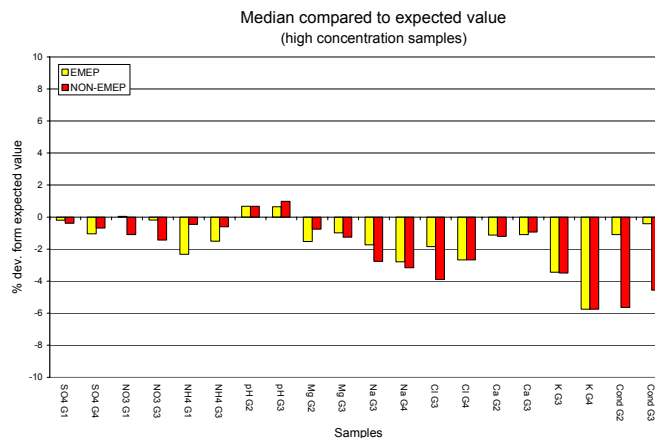
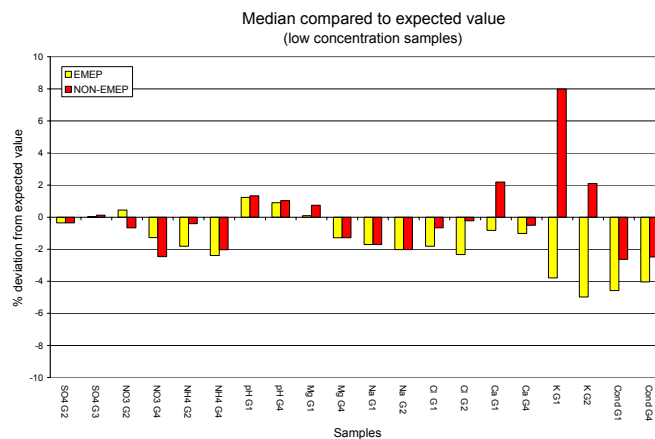


The nineteenth intercomparison of analytical methods within EMEP

Hilde Th. Uggerud, Jan Erik Hanssen,
Jan Schaug and Jan Erik Skjelmoen



NILU : EMEP/CCC-Report 1/2002
REFERENCE : O-7729
DATE : AUGUST 2002

**EMEP Co-operative Programme for Monitoring and Evaluation
of the Long-range Transmission of Air Pollutants
in Europe**

**The nineteenth intercomparison of
analytical methods within EMEP**

**Hilde Th. Uggerud, Jan Erik Hanssen,
Jan Schaug and Jan Erik Skjelmoen**



Norwegian Institute for Air Research
P.O. Box 100, N-2027 Kjeller, Norway

Contents

	Page
1. Introduction.....	5
2. Organisation of the intercomparison	5
3. Data handling	6
3.1 Estimating random errors from laboratory comparisons.....	6
3.2 Estimating systematic errors from laboratory comparisons	8
4. Results	8
4.1 Sulphur dioxide in absorbing solution.....	8
4.2 Sulphur dioxide and nitric acid on impregnated filter.....	9
4.3 Nitrogen dioxide in absorbing solution	9
4.4 Ammonia on impregnated filters.....	10
4.5 Precipitation.....	10
4.5.1 Sulphate	10
4.5.2 Nitrate	11
4.5.3 Ammonium	11
4.5.4 pH and strong acid	11
4.5.5 Chloride	12
4.5.6 Sodium.....	12
4.5.7 Magnesium	12
4.5.8 Calcium.....	12
4.5.9 Potassium.....	12
4.5.10 Conductivity and ion balance	13
5. Conclusions.....	13
6. References.....	14
Appendix 1 Tables	17
Appendix 2 Figures	51

The nineteenth intercomparison of analytical methods within EMEP

1. Introduction

32 different laboratories in European countries are performing chemical analysis of air and precipitation samples within EMEP (Co-operative Programme for Monitoring and Evaluation of Long-range Transmission of Air Pollutants in Europe). Since the measurement programme is based on individual national networks, the participating laboratories apply different sampling and analytical methods. Most of the methods used are described in the manual for sampling and chemical analysis (EMEP, 1977; EMEP, 1996).

In order to improve the data comparability and to get a picture of the different laboratories' performance, interlaboratory comparisons are organised by the Chemical Co-ordinating Centre (CCC) at the Norwegian Institute for Air Research (NILU). So far eighteen intercomparisons have been arranged (Hanssen, 1988, 1990; Hanssen et al., 1983; Hanssen and Ladegård, 1984, 1985, 1987; Hanssen and Skjelmoen, 1992, 1994, 1995, 1996, 1997, 2001; Thrane, 1978, 1980a, 1980b, 1981, Uggerud et al., 2001).

This report gives the results of the nineteenth interlaboratory test.

2. Organisation of the intercomparison

The samples for the nineteenth intercomparison (see Table 1) were prepared and distributed to 65 laboratories in July 2001. In addition to the European participants, two laboratories in North America received samples as a part of the co-operation between EMEP and the North American networks for acid deposition. Also nineteen laboratories within the measurement programme ICP-Forest and nine laboratories participating in various other measurement programmes were invited to participate in the eighteenth intercomparison.

Most of the laboratories had returned their results to the CCC within one month after the deadline given as 15 October 2001. A total of 56 laboratories have returned their results. This includes 31 EMEP-laboratories, 14 ICP-Forest laboratories and 11 other laboratories.

The participating laboratories received the theoretical (expected) values shortly after CCC had received the results. The laboratories were then asked to compare their results with the expected ones, and give corrected values if obvious mistakes e.g. misprints had occurred. A few corrections were reported. In those cases the corrected values are used in this report. In accordance with the decision of the Steering Body of EMEP, the results are presented in such a way that the different laboratories are identified. Tables 2a and 2b give the names of the participating laboratories together with the numbers used when presenting the results in tables and figures.

Information received on the analytical methods used is given in Table 3–Table 7.

3. Data handling

The data reported from the participants are presented in Tables 8, 10, 12, 14, 16 and 18-29.

The methods of data analysis are the same as in earlier intercomparisons. The results for the samples are presented in the tables in decreasing order together with the number of the laboratory. The expected (theoretical) value, the number of results, the arithmetic mean value, the median, the standard deviation and the relative standard deviation in percent are also given. After the first statistical run with all results included, the calculation was repeated with the outliers excluded. The outliers (unused) are defined as the results more than two standard deviations from the mean value in the first run.

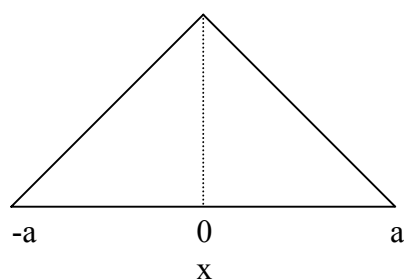
Bar-plots are used for the graphical presentation of the data. Figure 1–Figure 15 are showing the relative deviation from expected value for the different laboratories. There is one plot for each single sample.

Figure 16 gives medians compared to expected value for the results reported by EMEP-laboratories and the other participating laboratories, respectively.

Table 34 presents relative random and relative systematic errors obtained by the different laboratories in the analysis of each parameter in the precipitation samples. The calculation method and assumptions used are given in chapter 3.1 and chapter 3.

3.1 Estimating random errors from laboratory comparisons

Systematic errors or bias in the laboratory analyses give a constant shift in the results from the expected ones at a particular concentration level. It is assumed that laboratories taking part in comparisons will obtain results near the expected ones when this bias is removed, and that the differences between expected and obtained results more often will be close to zero than not. A triangular distribution, based upon this assumption, can be used to quantify the random errors in the laboratory results (Eurachem, 2000).



The triangle distribution is symmetric with a baseline $2a$. The height in the triangle will be $1/a$ when the triangle area equals 1. The standard uncertainty is given by

$$u(x) = \frac{a}{\sqrt{6}} \quad (1)$$

and more than 95 % of the data will be within $\pm 2 \cdot u(x)$. The distance from $-a$ to a (i.e. $2a$) is called the range. When applied on the laboratory comparison results, the range equals the distance between the largest and smallest of the four differences between expected and found concentrations. As long as the bias can be assumed to be constant for the samples in the comparison of a specific component, it cannot have an effect on the distance corresponding to $2a$. The bias may be dependent upon the concentrations, but can be considered approximate constant for the concentrations used here in the comparison of the main components in precipitation, since the differences between the concentrations are small.

L and T represent the laboratories' and the expected concentrations respectively, and D is the difference. The difference for the lowest concentration is

$$D_1 = L_1 - T_1 \quad (2)$$

and the differences are D_1, D_2, D_3, D_4 in increasing order.

The range is $D_4 - D_1$ and the standard uncertainty for the differences $u(D)$ becomes

$$u(D) = \frac{(D_4 - D_1)}{(2 \cdot \sqrt{6})}. \quad (3)$$

The average expected concentration T for the four samples is given by

$$T = \frac{(T_1 + T_2 + T_3 + T_4)}{4} \quad (4)$$

The relative standard uncertainty, RSD, for 4 samples is given by $\frac{u(D)}{T}$, or

$$\text{RSD} = \frac{2 \cdot (D_4 - D_1 \cdot 100)}{\sqrt{6} \cdot (T_1 + T_2 + T_3 + T_4)} \% \quad (5)$$

and 95 per cent of the laboratory results in this comparison are expected to be within $\pm 2 \cdot \text{RSD}$.

If the data quality objectives (DQO) likewise are looked upon as 95 percentiles, then 95 per cent of the laboratory analytical results should not be more than 10 or

15 per cent from the correct values (10 per cent for S and N containing components and 15 per cent for other components).

Correspondingly, the values 2·RSD should therefore be less than 10 or 15 per cent in order to comply with the DQO.

3.2 Estimating systematic errors from laboratory comparisons

An estimation of bias in single measurements requires a long data series, and four samples as we normally have in laboratory comparison, are merely able to give an indication of the bias or a very coarse estimate.

Coarse estimates have been performed here in the cases where the four samples had similar concentrations and where all four laboratory results were either higher or lower than the expected concentrations. The median of the differences D_i , as defined above, was taken as a measure of the bias, B , in these cases.

$$B = \text{median}[D_i] \quad (6)$$

A relative bias, RB , was also calculated based upon the average expected concentration T , as defined in (4).

$$RB = \frac{4 \cdot \text{median}[D_i] \cdot 100}{(T_1 + T_2 + T_3 + T_4)} \% \quad (7)$$

4. Results

4.1 Sulphur dioxide in absorbing solution

Four samples and one blank solution were distributed to the laboratories that use the hydrogen peroxide absorption solution method. The results are given in Table 8 and Figure 1. For those laboratories that report a blank value this has been subtracted from the reported results. The ratios of measured value to expected value are presented in Table 9.

If 70 ml absorbing solution and 3.6 m³ sampling volume is used, the concentration of SO₂ in the samples correspond to an air concentration in the range 2.49–6.94 µg S m⁻³.

Six laboratories use hydrogen peroxide absorption solution method for determination of SO₂ in air. Five of these laboratories report intercomparison results. In addition, laboratory 15 analysed the absorption solution samples. Laboratory 17 reports one outlying result for sample A2. Two laboratories report values that deviate between 10-20% from expected value, and two laboratories report values that deviate more than 20%. The relative standard deviation is 5.3-12.8 % when the outlying result is excluded. This is better than last year's results, but the concentrations this year is higher than in the samples distributed last year. The average ratio is presented in Table 9. 4 of 6 laboratories have a ratio between 0.90 and 1.10.

4.2 Sulphur dioxide and nitric acid on impregnated filter

Five impregnated filter samples (including one blank) for determination of sulphur dioxide were analysed by 21 laboratories. The amount of sulphur in these samples corresponds to air concentrations between 0.72-2.24 $\mu\text{g S m}^{-3}$ if 25 m^3 is sampled. The value reported for the blank filter was subtracted from the other values before using the data. The results are presented in Table 10 and Figure 2.

Laboratories 33 and 38 report three and four outlying results, respectively. The relative standard deviation is 4.6-8.2% when outlying results are excluded. Three laboratories report values that deviate 10-20% away from expected value, while two laboratories report values that deviate more than 20%.

70 values (83%) out of a total of 84 have an error less than 10% when compared to expected value. 8 of the reported values (9.5%) have an error more than 20%. Figure 2 shows that low values occur more often than high values, indicating insufficient extraction of sulphate from the filter or negative matrix effect on the analytical method from the impregnation solution.

The average ratios are presented in Table 11. 17 of 21 laboratories have a ratio between 0.90 and 1.10, which is a quite satisfactory result.

In addition to sulphur dioxide, nitric acid were added to the same impregnated filters for determination of $\text{HNO}_3\text{-N}$. The amount of nitrogen in these samples corresponds to air concentrations between 0.46-1.57 $\mu\text{g N m}^{-3}$ if 25 m^3 sampling volume is used. The reported value for the blank sample was subtracted from the other reported values before the data were used. 21 laboratories received impregnated filters for determination of $\text{HNO}_3\text{-N}$, 16 laboratories reported results.

The results are presented in Table 12 and Figure 3. Laboratory 33 reports outlying results for three samples. The relative standard deviation is between 4.6-10.8% when outliers are excluded. Three laboratories report values that deviate between 10-20% from expected value and three laboratories report values that deviate more than 20%.

51 values (79.7%) out of a total of 64 deviate less than 10% from expected value. 7 values (10.9%) have an error more than 20% when compared to expected value. Figure 3 shows that also in determination of $\text{HNO}_3\text{-N}$, low values occur more often than high values. This may be due to insufficient extraction or negative matrix effect on the analytical method from the impregnation solution.

The average ratios are presented in Table 13. 11 of a total of 16 laboratories have average ratio between 0.90-1.10.

4.3 Nitrogen dioxide in absorbing solution

The four samples distributed are made to represent both absorption solutions and extracts from iodide-impregnated glass filters. The samples contained known amount of sodium nitrite diluted in water. In order to assure sample stability and to give the laboratories the opportunity to use the matrix they use in their daily routine, the distributed samples were to be diluted 1:10. The results should be

reported as the diluted concentrations. The 10 times diluted samples correspond to air concentrations between 3.55-7.8 $\mu\text{g NO}_2\text{-N m}^{-3}$, when 70 ml absorbing solution and 1.4 m^3 is sampled. When 4 ml extraction solution and 0.7 m^3 sampling volume is used, the samples correspond to air concentrations between 0.41-0.89 $\mu\text{g NO}_2\text{-N m}^{-3}$.

The results are presented in Table 14 and Figure 4. Laboratory 19 reports outlying results for all four samples. Three laboratories report results that deviate between 10-20% from expected value, while one laboratory reports values that deviate more than 20%. The relative standard deviation is 5.2-6.1% when outliers are excluded. These results are near the results obtained the last time samples of this kind were distributed (EMEP XVII).

The average ratio is presented in Table 15. 18 of 20 laboratories have an average ratio between 0.90 and 1.10, which is a quite satisfactory result.

4.4 Ammonia on impregnated filters

For the first time impregnated filters for determination of ammonia were distributed. 6 impregnated filters inclusive 2 unidentified blank filters were sent to 22 laboratories. 16 laboratories have reported their analytical results. The amount of nitrogen on the filters correspond to air concentrations between 0.24-1.44 $\mu\text{g N m}^{-3}$, if 25 m^3 sampling volume is used. The two blank values reported by each laboratory were averaged and subtracted from the other values reported before using the data. The results are shown in Table 16 and Figure 5.

Laboratory 135 report 2 outlying results, while laboratory 33 and 19 report 1 outlier each. Seven laboratories report results that deviate between 10-20% from expected value, while five laboratories report values that deviate more than 20%.

36 reported values (56.3%) have an error less than 10% when compared to expected value.

Figure 5 shows that most of the reported data are lower than expected value. Average ratios are presented in Table 17. The ratios are in the range 0.6-1.04. 11 of 16 laboratories have a ratio between 0.90 and 1.10.

4.5 Precipitation

Four precipitation samples were distributed and 2044 single results from 56 laboratories were reported. 31 of the reporting laboratories are within EMEP. Most of these laboratories now perform the full precipitation programme in EMEP.

4.5.1 Sulphate

The results from the determination of sulphate are given in Table 18 and in Figure 6. Outliers are reported only from laboratory 130, which reports outlying results for all four samples. The relative standard deviation is in the region of (5.2-7.6)% when outliers are excluded. This is similar to results obtained in earlier intercomparisons.

Out of 52 reporting laboratories, 11 laboratories report values deviating between 10-20% from expected value and 4 laboratories report values that deviate more than 20%. All 4 laboratories that report values more than 20% away from expected value use ion chromatography as analytical technique. Among the laboratories that report results between 10-20% away from expected value, 2 laboratories use ICP-OES, 1 laboratory use the Thorin method and the rest use ion chromatography.

4.5.2 Nitrate

The results from the determination of nitrate are presented in Table 19 and Figure 7. A total of 54 laboratories reported values of nitrate. Laboratory 117 reports one, laboratory 40 reports three and laboratory 24 reports four outlying results. The relative standard deviation is in the range 5.6-7.3% when outliers are excluded.

5 laboratories report values that deviates 10-20% from expected value and 5 laboratories report values that deviate more than 20%. All laboratories that report outlying results use photometric detection.

4.5.3 Ammonium

The results from the determination of ammonium are presented in Table 20 and Figure 8. A total of 56 laboratories reported results for ammonium. Laboratories 116 and 18 report outlying results for all four samples. Laboratories 118 and 12 report outlying results for three and two samples, respectively. The relative standard deviation is in the range 5.3-8.8%, when outliers are excluded.

18 laboratories report values between 10-20% from expected value and 6 laboratories report values that deviate more than 20%.

4.5.4 pH and strong acid

Table 21 and Figure 9 present the results from pH measurements and determination of strong acid. 54 laboratories have reported results from pH measurements.

Laboratory 40 reports outlying results for all four samples. Laboratory 121 reports two outlying results, while laboratories 113, 115 and 131 report one outlier each. Eight laboratories report values that deviate more than 0.2 pH-units from the expected values. This is better than the results obtained in the last inter-comparison.

In order to obtain realistic standard deviation values, the pH-data are recalculated to $[H^+]$. The results are presented in Table 22. The relative standard deviation varies between 15.3-50.1 %.

6 laboratories have determined strong acid by titration. The results are presented in Table 23. No outlying results were reported.

4.5.5 Chloride

Table 24 and Figure 10 present the results from the determination of chloride. 54 laboratories report values from the determination of chloride. Laboratory 33 reports outlying results for all 4 samples. Laboratories 24, 130, 133 and 22, 38, 177 report 2 and 1 outlying results, respectively. The relative standard deviation is 8.8-29.1% when outlying values are excluded.

22 laboratories report values between 10 and 20% away from the expected value. 19 laboratories report values that deviate more than 20% from the expected value.

4.5.6 Sodium

The results from the determination of sodium are presented in Table 25 and Figure 11. 52 laboratories reported results for sodium. Laboratories 13, 10 and 40 report outlying results for all four solutions. Laboratories 136 and 116 report three and one outlying result, respectively. The relative standard deviation is 5.7-8.1% when outliers are excluded.

12 laboratories report with 10-20% deviation from expected value. 7 laboratories report values that deviate more than 20% from expected value.

4.5.7 Magnesium

Table 26 and Figure 12 show the results for magnesium. A total of 52 laboratories reported magnesium results. Laboratories 136 and 105 are reporting three values that are too high. Laboratories 20 and 115 are reporting two outlying values, while laboratories 34, 111, 121, 124 and 135 report one outlying result each. The relative standard deviation is 6.3-8.8% when outliers are excluded.

Results that deviate 10–20% from expected value, were reported by 13 laboratories. 10 laboratories reported values that deviate more than 20%.

4.5.8 Calcium

The results from determination of calcium are presented in Table 27 and Figure 13. 53 laboratories report results from analysis of calcium. Laboratory 105 reports values that are too high for three of the samples. Laboratories 130 and 34 report two outliers, while laboratories 22, 115, 116 and 136 report one outlying result each. The relative standard deviation is 8.4–14.7 %, when outliers are excluded.

16 laboratories report values that deviate between 10–20 % from expected value. 15 laboratories report values more than 20% away from expected value.

4.5.9 Potassium

Table 28 and Figure 14 presents the results for potassium. Out of a total of 52 laboratories, two laboratories report outlying results. Laboratories 116 and 133 report 4 and 3 outliers respectively. 26 laboratories report results that deviate 10-20% from expected value, while 16 laboratories report values that deviate more than 20%. The relative standard deviation is in the region 11-26% when outliers are excluded.

4.5.10 Conductivity and ion balance

The results from the conductivity measurements are given in Table 29 and Figure 15. Laboratories 133 and 136 report too low results for 3 and 2 samples respectively, while laboratories 105, 113 and 117 report one outlier each.

The standard deviation is in the range 4.8–6.9%, which is about the same as in earlier intercomparisons. Twenty-one values (10.1%) are reported between 10–20% away from expected value. This is similar to results in earlier intercomparisons. Fourteen values (6.8%) that deviate more than 20% from expected value are reported. This is slightly worse than results in earlier intercomparisons.

Conductivity measurements are mainly used in EMEP for quality control reasons by comparing measured with calculated values when all main ions in the precipitation have been measured. In Table 30 the ratios of the measured to the calculated (from the reported results) are given. As can be seen from inspecting these values, the laboratories 10, 19, 22, 105, 115, 117, 130, 133 and 136 report one or more values that are far from 1.

Low concentration ions do not contribute much to the sum of ionic conductivities. By looking at the ratio of measured to calculated conductivity, errors in determination of low concentration ions may not be revealed. To include low concentration ions in the quality control, ion balance control must be used. This ratio should be used as a tool in the quality control system for those laboratories that measure all the main components. The ratios of equivalent concentrations of anions versus equivalent concentrations cations are shown in Table 31. Laboratories 10, 115, 130 and 133 have ratios far from 1 for at least two samples.

5. Conclusions

A total of 56 laboratories participated in the nineteenth intercomparison. 32 of these laboratories are within the EMEP network.

For all the samples analysed the deviations from the theoretical values have been calculated. Figure 16 shows the median values compared to the theoretical values for all the parameters. The median deviations for EMEP laboratories are below 5% for low concentration samples. This is slightly better than last year's results. The median deviations for high concentration samples are below 6%, which is not as good as last year. The median deviations for the other participating laboratories are below 8%, which is an improvement compared to last year's results. The median deviations for high concentration samples are below 6%, which is about the same as last year's results.

Corresponding to earlier intercomparisons outliers are defined as values that deviate more than two standard deviations from the mean value. Outliers occur for almost all samples and parameters. Out of a total of 2044 single results, 104 are defined as outliers. This is 5.1% of the reported data, which is about the same per cent as in earlier intercomparisons. A total of twenty-four laboratories report outlying results, but five laboratories only are responsible for 48% of the outliers.

These are laboratories 130, 116, 133, 136 and 40, which have nine or more outlying results.

The ratio of the median value to expected value for all parameters are presented in Table 32. As can be seen from this table all parameters except pH and K have median values that are in good agreement with the expected value.

6. References

- Eurachem (2000) Quantifying uncertainty in analytical measurements. 2nd ed.
URL: <http://www.eurachem.bam.de/guides/quam2.pdf>
- EMEP (1977) Manual for sampling and chemical analysis. Lillestrøm, Norwegian Institute for Air Research (EMEP/CHEM 3/77).
- EMEP (1996) Manual for sampling and chemical analysis. Kjeller, Norwegian Institute for Air Research (EMEP/CCC-Report 1/95).
- Hanssen, J.E. (1988) The tenth intercomparison of analytical methods within EMEP. Lillestrøm, Norwegian Institute for Air Research (EMEP/CCC-Report 3/88).
- Hanssen, J.E. (1990) The eleventh intercomparison of analytical methods within EMEP. Lillestrøm, Norwegian Institute for Air Research (EMEP/CCC-Report 1/90).
- Hanssen, J.E., Ladegård, N.E. (1984) The seventh intercomparison of analytical methods within the EMEP. Lillestrøm, Norwegian Institute for Air Research (EMEP/CCC-Report 1/84).
- Hanssen, J.E., Ladegård, N.E. (1985) The eighth intercomparison of analytical methods within EMEP. Lillestrøm, Norwegian Institute for Air Research (EMEP/CCC-Report 4/85).
- Hanssen, J.E., Ladegård, N.E. (1987) The ninth intercomparison of analytical methods within EMEP. Lillestrøm, Norwegian Institute for Air Research (EMEP/CCC-Report 4/87).
- Hanssen, J.E., Ladegård, N.E., Thrane, K.E. (1983) The sixth intercomparison of analytical methods within the EMEP. Lillestrøm, Norwegian Institute for Air Research (EMEP/CCC-Report 2/83).
- Hanssen, J.E., Skjelmoen, J.E. (1992) The twelfth intercomparison of analytical methods within EMEP. Lillestrøm, Norwegian Institute for Air Research (EMEP/CCC-Report 7/92).
- Hanssen, J.E., Skjelmoen, J.E. (1994) The thirteenth intercomparison of analytical methods within EMEP. Lillestrøm, Norwegian Institute for Air Research (EMEP/CCC-Report 1/94).

- Hanssen, J.E., Skjelmoen, J.E. (1995) The fourteenth intercomparison of analytical methods within EMEP. Kjeller, Norwegian Institute for Air Research (EMEP/CCC-Report 3/95).
- Hanssen, J.E., Skjelmoen, J.E. (1996) The fifteenth intercomparison of analytical methods within EMEP. Kjeller, Norwegian Institute for Air Research (EMEP/CCC-Report 2/96).
- Hanssen, J.E., Skjelmoen, J.E. (1997) The sixteenth intercomparison of analytical methods within EMEP. Kjeller, Norwegian Institute for Air Research (EMEP/CCC-Report 2/97).
- Hanssen, J.E., Skjelmoen, J.E. (2001) The seventeenth intercomparison of analytical methods within EMEP. Kjeller, Norwegian Institute for Air Research (EMEP/CCC-Report 10/2001).
- Thrane, K.E. (1978) Report on the first intercomparison of analytical methods within the EMEP. Lillestrøm, Norwegian Institute for Air Research (EMEP/CCC-Report 2/78).
- Thrane, K.E. (1980a) Report on the second and third intercomparison of analytical methods within the EMEP. Lillestrøm, Norwegian Institute for Air Research (EMEP/CCC-Report 1/80).
- Thrane, K.E. (1980b) Report on the fourth intercomparison of analytical methods within the EMEP. Lillestrøm, Norwegian Institute for Air Research (EMEP/CCC-Report 5/80).
- Thrane, K.E. (1981) The fifth intercomparison of analytical methods within the EMEP. Lillestrøm, Norwegian Institute for Air Research (EMEP/CCC-Report 2/81).
- Uggerud, H.Th., Hanssen, J.E. and Skjelmoen, J.E. (2001) The eighteenth intercomparison of analytical methods within EMEP. Kjeller, Norwegian Institute for Air Research (EMEP/CCC-Report 11/2001).

Appendix 1

Tables

Table 1: Samples distributed for the nineteenth interlaboratory test.

A.	6 synthetic samples for determination of SO ₂ , consisting of 0.3% H ₂ O ₂ absorbing solution and containing different concentrations of sulphuric acid. One of the samples was an unidentified blank.
B.	9 KOH-impregnated Whatman 40 filters, comprising 1 blank and 8 filters to which different amounts of sulphuric acid have been added.
C.	4 synthetic samples for determination of NO ₂ consisting of sodium nitrite diluted in water.
J.	6 Whatman 40 filters impregnated with 3% oxalic acid, comprising 2 blank and 4 filters to which different amounts of ammonium salt solution have been added.
G.	4 synthetic precipitation samples, containing SO ₄ ²⁻ , NO ₃ ⁻ , NH ₄ ⁺ , H ⁺ , Na ⁺ , Mg ²⁺ and Cl ⁻ , and Ca ²⁺ and K ⁺ .

Table 2a: EMEP laboratories participating in the nineteenth laboratory intercomparison. The numbers in front of the names are used in tables and figures.

Austria	(1)	Umweltbundesamt Zweigstelle Sud, Klagenfurt
Canada	(26)	Meteorological Service of Canada, Toronto
Croatia	(35)	Meteorological and Hydrological Service of Croatia
Czech Republic	(3)	Czech Hydrometeorological Institute, Praha
Denmark	(4)	National Environmental Research Institute. Air Pollution Laboratory
Estonia	(38)	Estonian Environmental Research Centre, Tallinn
European Commission	(30)	Joint Research Centre, Ispra, Environment Institute
Finland	(5)	Finnish Meteorological Institute. Air Quality Department
France	(6)	Laboratories Wolff
Germany	(7)	IfE Leipzig GmbH, Umweltlabor
Germany	(8)	Umweltbundesamt, Messtelle Schauinsland
Hungary	(10)	Institute for Atmospheric Physics
Iceland	(11)	Íðntæknistofnun Íslands (Technological Inst. of Iceland)
Ireland	(12)	Meteorological Service, Dublin
Italy	(13)	C.N.R. Istituto Inquinamento Atmosferico
Latvia	(33)	Air Pollution Observation Laboratory
Netherlands	(14)	National Institute of Public Health and Environmental Protection (RIVM)
Norway	(15)	Norwegian Institute for Air Research (NILU)
Macedonia	(40)	Hydrometeorological Institute, Skopje
Poland	(16)	Institute of Meteorology and Water Management, Warsaw
Poland	(39)	Environmental Monitoring Laboratory, Institute of Environmental Protection
Portugal	(17)	Direcção Regional do Ambiente e Recursos Naturais do Alentejo, Sines
Romania	(18)	Research and Engineering Institute for Environment
Russian Federation	(22)	Institute of Global Climate and Ecology
Slovakia	(31)	Slovak Hydrometeorological Institute
Slovenia	(36)	Hydrometeorological Institute of Slovenia
Spain	(19)	Centro Nacional de Sanidad Ambiental
Sweden	(20)	Swedish Environmental Research Institute (IVL), Gothenburg
Switzerland	(21)	Swiss Federal Laboratories for Materials Testing (EMPA)
Turkey	(34)	Refik Saydam Institute, Ankara
United Kingdom	(23)	AEA Technology, National Environmental Technology Centre
United States of America	(27)	Illinois State Water Survey
Yugoslavia	(24)	Federal Hydrometeorological Institute, Belgrade

Table 2b: Participating laboratories outside the EMEP network.

Germany	(104)	Hessige Landwirtschaftliche
Germany	(105)	Universität des Saarlandes
Sweden	(106)	IVL Svenska Miljöinstitutet AB, Aneboda
Finland	(107)	The Finnish Forest Institute
Germany	(109)	Institut für Bondenkunde und Waldernährung der Universität, Göttingen
Finland	(111)	Finnish Forest Research Institute, Vantaa Research Centre
Germany	(112)	Niedersächsische Forstliche Versuchsanstalt (NVF)
Germany	(113)	Landesforstanstalt Eberswalde, abt. Waldökologie
Italy	(114)	C.N.R. Istituto Italiano di Idrobiologia
Germany	(115)	Bayerische Landesanstalt f. Wald- und Forstwirtschaft
Switzerland	(116)	Institute for Applied Plant Biology
Germany	(117)	Sächsische Landesanstalt für Forsten
Germany	(118)	Forstliche Versuchs-und Forschungsanstalt
Germany	(119)	Landesumweltamt (LUA)
Germany	(121)	Landesamt für Natur und Umwelt
Belgium	(124)	Laboratory of Soil Science
Italy	(126)	APPA Laboratorio Biologico Provinciale
Italy	(130)	Università degli Studi Siena
China	(131)	Chongqing Institute of Environmental Science and Monitoring
Belarus	(133)	Institute for Problems of Natural Resources Use and Ecology
Germany	(134)	Wissenschaftszentrum für Waldernährung und Wasserhaushalt
China	(135)	Hunan Research Institute of Environmental Protection Science
China	(136)	Guangzhou Research Institute of Environmental Protection

Table 3: Analytical methods used at the participating laboratories for the determination of sulphur dioxide in absorbing solution.

Method	Laboratory
1. Ion chromatography	6, 15, 17, 19, 21, 23

Table 4: Analytical methods used at the participating laboratories for the determination of sulphur dioxide on impregnated filters.

Method	Laboratory
1. Thorin method	33, 16
2. Ion chromatography	3, 4, 5, 8, 11, 12, 13, 15, 19, 20, 22, 23, 31, 34, 36, 38, 131, 135
3. Capillary Ion Analysis	39

Table 5: Analytical methods used at the participating laboratories for determination of nitrate on impregnated filters

Method	Laboratory
1. Reduction to nitrite	16, 33
2. Ion chromatography	3, 4, 5, 8, 11, 13, 15, 19, 20, 22, 31, 34, 36
3. Capillary Ion Analysis	39

Table 6: Analytical method for determination of ammonia on impregnated filters.

Method	Laboratory
1. Spectroscopy	4
2. Chloramine T	16
3. Indophenole	10, 19, 30, 31, 33
4 Ion chromatography	5, 131, 135

Table 7: Analytical method used for NO₂ in absorbing solution.

Method	Laboratory
1. NEDA/Sulphanilamide	3, 4, 10, 15, 16, 19, 20, 22, 23, 31, 33, 34, 35, 39
2. NEDA/Sulphanilic acid	
3. Ion chromatography	36

Table 8: Analytical results for sulphur dioxide in absorbing solution.

<p>SULPHUR DIOXIDE IN ABSORBING SOL. SAMPLE NO.: A1 THEORETICAL VALUE 0.357 UNIT: µg S/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 6 ARITHMETIC MEAN VALUE: 0.339 MEDIAN: 0.350 STANDARD DEVIATION: 0.044 REL. ST. DEVIATION (%): 12.836</p> <p>RUN 2: NUMBER OF LABORATORIES: 6 ARITHMETIC MEAN VALUE: 0.339 MEDIAN: 0.350 STANDARD DEVIATION: 0.044 REL. ST. DEVIATION (%): 12.836</p> <p>RESULTS IN DECREASING ORDER: 23 0.382 6 0.343 17 0.370 15 0.320 21 0.358 19 0.262 "UNUSED": DATA UNUSED IN RUN 2</p>	<p>SULPHUR DIOXIDE IN ABSORBING SOL. SAMPLE NO.: A2 THEORETICAL VALUE 0.128 UNIT: µg S/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 6 ARITHMETIC MEAN VALUE: 0.140 MEDIAN: 0.127 STANDARD DEVIATION: 0.034 REL. ST. DEVIATION (%): 24.097</p> <p>RUN 2: NUMBER OF LABORATORIES: 5 ARITHMETIC MEAN VALUE: 0.126 MEDIAN: 0.125 STANDARD DEVIATION: 0.007 REL. ST. DEVIATION (%): 5.914</p> <p>RESULTS IN DECREASING ORDER: 17 0.207 UNUSED 21 0.125 23 0.137 15 0.120 19 0.130 6 0.119 "UNUSED": DATA UNUSED IN RUN 2</p>
<p>SULPHUR DIOXIDE IN ABSORBING SOL. SAMPLE NO.: A3 THEORETICAL VALUE 0.172 UNIT: µg S/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 6 ARITHMETIC MEAN VALUE: 0.167 MEDIAN: 0.162 STANDARD DEVIATION: 0.009 REL. ST. DEVIATION (%): 5.637</p> <p>RUN 2: NUMBER OF LABORATORIES: 6 ARITHMETIC MEAN VALUE: 0.167 MEDIAN: 0.162 STANDARD DEVIATION: 0.009 REL. ST. DEVIATION (%): 5.637</p> <p>RESULTS IN DECREASING ORDER: 23 0.183 6 0.161 21 0.173 15 0.160 17 0.163 19 0.160 "UNUSED": DATA UNUSED IN RUN 2</p>	<p>SULPHUR DIOXIDE IN ABSORBING SOL. SAMPLE NO.: A4 THEORETICAL VALUE 0.289 UNIT: µg S/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 6 ARITHMETIC MEAN VALUE: 0.290 MEDIAN: 0.285 STANDARD DEVIATION: 0.024 REL. ST. DEVIATION (%): 8.103</p> <p>RUN 2: NUMBER OF LABORATORIES: 6 ARITHMETIC MEAN VALUE: 0.290 MEDIAN: 0.285 STANDARD DEVIATION: 0.024 REL. ST. DEVIATION (%): 8.103</p> <p>RESULTS IN DECREASING ORDER: 17 0.327 15 0.280 23 0.309 6 0.271 21 0.289 19 0.266 "UNUSED": DATA UNUSED IN RUN 2</p>

Table 9: The ratios of the theoretical values and the results found by the laboratories in the determination of sulphur dioxide in absorbing solutions.

Lab. no.	Measured value / expected value				Average
	Sample No.				
	A1	A2	A3	A4	
6	0.96	0.93	0.93	0.94	0.94
15	0.90	0.94	0.93	0.97	0.93
17	1.04	1.61	0.95	1.13	1.18
19	0.95	2.65	1.21	0.82	1.41
21	1.01	0.99	1.02	1.01	1.01
23	1.07	1.07	1.06	1.07	1.07

Table 10: Analytical results for sulphur dioxide in impregnated filter.

<p>SULPHUR DIOXIDE ON IMPREGNATED FILTER SAMPLE NO.: B2 THEORETICAL VALUE 18.036 UNIT: µg S/FILTER</p> <p>RUN 1: NUMBER OF LABORATORIES: 21 ARITHMETIC MEAN VALUE: 17.086 MEDIAN: 17.670 STANDARD DEVIATION: 2.261 REL. ST. DEVIATION (%): 13.232</p> <p>RUN 2: NUMBER OF LABORATORIES: 20 ARITHMETIC MEAN VALUE: 17.475 MEDIAN: 17.685 STANDARD DEVIATION: 1.425 REL. ST. DEVIATION (%): 8.154</p> <p>RESULTS IN DECREASING ORDER: 36 20.000 39 17.300 131 19.510 22 17.100 31 18.556 34 16.947 5 18.400 8 16.900 20 18.374 4 16.782 13 18.320 19 16.736 23 18.150 15 16.700 12 17.930 11 14.940 135 17.860 33 13.630 16 17.700 38 9.300 UNUSED 3 17.670</p> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	<p>SULPHUR DIOXIDE ON IMPREGNATED FILTER SAMPLE NO.: B3 THEORETICAL VALUE 42.084 UNIT: µg S/FILTER</p> <p>RUN 1: NUMBER OF LABORATORIES: 21 ARITHMETIC MEAN VALUE: 40.007 MEDIAN: 40.700 STANDARD DEVIATION: 3.570 REL. ST. DEVIATION (%): 8.923</p> <p>RUN 2: NUMBER OF LABORATORIES: 19 ARITHMETIC MEAN VALUE: 40.971 MEDIAN: 41.020 STANDARD DEVIATION: 1.930 REL. ST. DEVIATION (%): 4.710</p> <p>RESULTS IN DECREASING ORDER: 31 43.706 39 40.700 19 43.414 20 40.254 23 42.850 34 40.004 36 42.500 4 40.002 5 42.400 15 40.000 135 42.260 16 39.950 13 42.160 11 36.940 12 41.880 22 36.400 131 41.300 33 32.010 UNUSED 3 41.020 38 29.700 UNUSED 8 40.700</p> <p>"UNUSED": DATA UNUSED IN RUN 2</p>
<p>SULPHUR DIOXIDE ON IMPREGNATED FILTER SAMPLE NO.: B4 THEORETICAL VALUE 56.112 UNIT: µg S/FILTER</p> <p>RUN 1: NUMBER OF LABORATORIES: 21 ARITHMETIC MEAN VALUE: 54.552 MEDIAN: 55.600 STANDARD DEVIATION: 5.150 REL. ST. DEVIATION (%): 9.440</p> <p>RUN 2: NUMBER OF LABORATORIES: 19 ARITHMETIC MEAN VALUE: 55.952 MEDIAN: 55.665 STANDARD DEVIATION: 2.781 REL. ST. DEVIATION (%): 4.970</p> <p>RESULTS IN DECREASING ORDER: 19 60.878 39 55.100 23 59.850 13 54.950 75 59.660 15 54.500 31 59.049 4 54.322 36 57.300 20 54.154 71 57.160 16 53.160 3 56.960 11 51.330 12 56.950 22 50.300 5 56.200 38 41.700 UNUSED 34 55.665 33 40.810 UNUSED 8 55.600</p> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	<p>SULPHUR DIOXIDE ON IMPREGNATED FILTER SAMPLE NO.: B5 THEORETICAL VALUE 24.048 UNIT: µg S/FILTER</p> <p>RUN 1: NUMBER OF LABORATORIES: 21 ARITHMETIC MEAN VALUE: 23.003 MEDIAN: 23.534 STANDARD DEVIATION: 2.169 REL. ST. DEVIATION (%): 9.428</p> <p>RUN 2: NUMBER OF LABORATORIES: 19 ARITHMETIC MEAN VALUE: 23.552 MEDIAN: 23.690 STANDARD DEVIATION: 1.369 REL. ST. DEVIATION (%): 5.811</p> <p>RESULTS IN DECREASING ORDER: 23 25.350 12 23.320 36 25.300 75 23.260 71 25.170 34 23.133 31 25.169 16 22.920 15 24.400 8 22.700 19 24.135 4 22.642 5 23.800 11 22.030 13 23.730 22 19.500 39 23.700 33 18.070 UNUSED 3 23.690 38 17.500 UNUSED 20 23.534</p> <p>"UNUSED": DATA UNUSED IN RUN 2</p>

Table 11: The ratios of the theoretical values and the results found by the laboratories in the determination of sulphur dioxide on impregnated filters. The reported results are corrected for blank value (B1).

Lab.No.	Measured value / expected value				Average
	Sample No.				
	B 2	B 3	B 4	B 5	
3	0.98	0.97	1.02	0.99	0.99
4	0.93	0.95	0.97	0.94	0.95
5	1.02	1.01	1.00	0.99	1.00
8	0.94	0.97	0.99	0.94	0.96
11	0.83	0.88	0.91	0.92	0.88
12	0.99	1.00	1.01	0.97	0.99
13	1.02	1.00	0.98	0.99	1.00
15	0.93	0.95	0.97	1.01	0.97
16	0.98	0.95	0.95	0.95	0.96
19	0.93	1.03	1.08	1.00	1.01
20	1.02	0.96	0.97	0.98	0.98
22	0.95	0.86	0.90	0.81	0.88
23	1.01	1.02	1.07	1.05	1.04
31	1.03	1.04	1.05	1.05	1.04
33	0.76	0.76	0.73	0.75	0.75
34	0.94	0.95	0.99	0.96	0.96
36	1.11	1.01	1.02	1.05	1.05
38	0.52	0.71	0.74	0.73	0.67
39	0.96	0.97	0.98	0.99	0.97
131	1.08	0.98	1.02	1.05	1.03
135	0.99	1.00	1.06	0.97	1.01

Table 12: Analytical results for nitric acid on impregnated filter.

<p>NITRIC ACID ON IMPREGNATED FILTER SAMPLE NO.: B2 THEORETICAL VALUE 39.264 UNIT: µg N/FILTER</p> <p>RUN 1: NUMBER OF LABORATORIES: 16 ARITHMETIC MEAN VALUE: 37.917 MEDIAN: 38.146 STANDARD DEVIATION: 3.611 REL. ST. DEVIATION (%): 9.524</p> <p>RUN 2: NUMBER OF LABORATORIES: 15 ARITHMETIC MEAN VALUE: 38.710 MEDIAN: 38.300 STANDARD DEVIATION: 1.786 REL. ST. DEVIATION (%): 4.613</p> <p>RESULTS IN DECREASING ORDER: 19 43.503 34 37.992 5 40.500 15 37.900 31 40.134 22 37.730 3 39.770 16 37.510 8 39.200 36 37.200 39 39.000 20 37.080 13 38.630 11 36.200 4 38.300 33 26.020 UNUSED</p> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	<p>NITRIC ACID ON IMPREGNATED FILTER SAMPLE NO.: B3 THEORETICAL VALUE 13.088 UNIT: µg N/FILTER</p> <p>RUN 1: NUMBER OF LABORATORIES: 16 ARITHMETIC MEAN VALUE: 12.328 MEDIAN: 12.583 STANDARD DEVIATION: 1.418 REL. ST. DEVIATION (%): 11.500</p> <p>RUN 2: NUMBER OF LABORATORIES: 14 ARITHMETIC MEAN VALUE: 12.315 MEDIAN: 12.583 STANDARD DEVIATION: 0.922 REL. ST. DEVIATION (%): 7.490</p> <p>RESULTS IN DECREASING ORDER: 19 15.506 UNUSED 4 12.540 13 13.330 15 12.500 8 13.200 16 12.280 5 13.000 36 12.000 3 12.900 34 11.788 20 12.720 22 10.830 39 12.700 11 10.000 31 12.627 33 9.330 UNUSED</p> <p>"UNUSED": DATA UNUSED IN RUN 2</p>
<p>NITRIC ACID ON IMPREGNATED FILTER SAMPLE NO.: B4 THEORETICAL VALUE 11.452 UNIT: µg N/FILTER</p> <p>RUN 1: NUMBER OF LABORATORIES: 16 ARITHMETIC MEAN VALUE: 10.522 MEDIAN: 10.764 STANDARD DEVIATION: 1.133 REL. ST. DEVIATION (%): 10.764</p> <p>RUN 2: NUMBER OF LABORATORIES: 16 ARITHMETIC MEAN VALUE: 10.522 MEDIAN: 10.764 STANDARD DEVIATION: 1.133 REL. ST. DEVIATION (%): 10.764</p> <p>RESULTS IN DECREASING ORDER: 19 12.140 31 10.727 13 11.720 15 10.700 8 11.600 4 10.660 5 11.400 36 10.500 3 11.070 22 9.330 20 11.040 34 8.844 16 10.800 11 8.740 39 10.800 33 8.280</p> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	<p>NITRIC ACID ON IMPREGNATED FILTER SAMPLE NO.: B5 THEORETICAL VALUE 42.536 UNIT: µg N/FILTER</p> <p>RUN 1: NUMBER OF LABORATORIES: 16 ARITHMETIC MEAN VALUE: 41.355 MEDIAN: 42.030 STANDARD DEVIATION: 4.022 REL. ST. DEVIATION (%): 9.725</p> <p>RUN 2: NUMBER OF LABORATORIES: 15 ARITHMETIC MEAN VALUE: 42.158 MEDIAN: 42.060 STANDARD DEVIATION: 2.506 REL. ST. DEVIATION (%): 5.943</p> <p>RESULTS IN DECREASING ORDER: 19 49.001 16 42.000 31 43.894 39 42.000 5 43.000 36 41.200 13 42.970 22 40.930 3 42.950 20 40.160 8 42.800 34 39.346 15 42.500 11 37.560 4 42.060 33 29.310 UNUSED</p> <p>"UNUSED": DATA UNUSED IN RUN 2</p>

Table 13: The ratios of the theoretical values and the results found by the laboratories in the determination of nitric acid on impregnated filters. The reported results are corrected for blank value (B1).

Lab. No.	Measured / Expected				Average
	Sample No.				
	B 2	B 3	B 4	B 5	
3	1.01	0.99	0.97	1.01	0.99
4	0.98	0.96	0.93	0.99	0.96
5	1.03	0.99	1.00	1.01	1.01
8	1.00	1.01	1.01	1.01	1.01
11	0.92	0.76	0.76	0.88	0.83
12	0.00	0.00	0.00	0.00	0.00
13	0.98	1.02	1.02	1.01	1.01
15	0.97	0.96	0.93	1.00	0.96
16	0.96	0.94	0.94	0.99	0.96
19	1.11	1.18	1.06	1.15	1.13
20	0.94	0.97	0.96	0.94	0.96
22	0.96	0.83	0.81	0.96	0.89
31	1.02	0.96	0.94	1.03	0.99
33	0.66	0.71	0.72	0.69	0.70
34	0.97	0.90	0.77	0.93	0.89
36	0.95	0.92	0.92	0.97	0.94
39	0.99	0.97	0.94	0.99	0.97

Table 14: Analytical results for nitrogen dioxide in absorbing solution.

<p>NITROGEN DIOXIDE IN ABSORBING SOL. SAMPLE NO.: C1 THEORETICAL VALUE 0.088 UNIT: µg N/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 20 ARITHMETIC MEAN VALUE: 0.151 MEDIAN: 0.087 STANDARD DEVIATION: 0.287 REL. ST. DEVIATION (%): 189.434</p> <p>RUN 2: NUMBER OF LABORATORIES: 19 ARITHMETIC MEAN VALUE: 0.087 MEDIAN: 0.087 STANDARD DEVIATION: 0.005 REL. ST. DEVIATION (%): 5.551</p> <p>RESULTS IN DECREASING ORDER: 19 1.370 UNUSED 22 0.087 39 0.097 34 0.086 23 0.096 35 0.086 3 0.093 38 0.086 12 0.091 10 0.085 15 0.090 36 0.085 131 0.089 24 0.084 135 0.089 4 0.082 16 0.088 33 0.080 20 0.087 31 0.078 "UNUSED": DATA UNUSED IN RUN 2</p>	<p>NITROGEN DIOXIDE IN ABSORBING SOL. SAMPLE NO.: C2 THEORETICAL VALUE 0.156 UNIT: µg N/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 20 ARITHMETIC MEAN VALUE: 0.255 MEDIAN: 0.155 STANDARD DEVIATION: 0.453 REL. ST. DEVIATION (%): 177.961</p> <p>RUN 2: NUMBER OF LABORATORIES: 19 ARITHMETIC MEAN VALUE: 0.153 MEDIAN: 0.154 STANDARD DEVIATION: 0.008 REL. ST. DEVIATION (%): 5.248</p> <p>RESULTS IN DECREASING ORDER: 19 2.180 UNUSED 15 0.154 23 0.169 16 0.153 12 0.161 20 0.152 24 0.161 38 0.152 34 0.159 10 0.151 22 0.158 36 0.151 131 0.158 4 0.150 39 0.157 31 0.140 135 0.157 33 0.140 35 0.155 3 0.135 "UNUSED": DATA UNUSED IN RUN 2</p>
<p>NITROGEN DIOXIDE IN ABSORBING SOL. SAMPLE NO.: C3 THEORETICAL VALUE 0.139 UNIT: µg N/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 20 ARITHMETIC MEAN VALUE: 0.221 MEDIAN: 0.136 STANDARD DEVIATION: 0.383 REL. ST. DEVIATION (%): 173.419</p> <p>RUN 2: NUMBER OF LABORATORIES: 19 ARITHMETIC MEAN VALUE: 0.135 MEDIAN: 0.136 STANDARD DEVIATION: 0.008 REL. ST. DEVIATION (%): 6.108</p> <p>RESULTS IN DECREASING ORDER: 19 1.850 UNUSED 20 0.136 12 0.146 38 0.136 22 0.143 4 0.135 39 0.143 16 0.134 135 0.142 36 0.134 23 0.141 131 0.134 35 0.141 34 0.133 24 0.140 33 0.130 10 0.136 31 0.123 15 0.136 3 0.109 "UNUSED": DATA UNUSED IN RUN 2</p>	<p>NITROGEN DIOXIDE IN ABSORBING SOL. SAMPLE NO.: C4 THEORETICAL VALUE 0.071 UNIT: µg N/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 20 ARITHMETIC MEAN VALUE: 0.124 MEDIAN: 0.071 STANDARD DEVIATION: 0.237 REL. ST. DEVIATION (%): 191.243</p> <p>RUN 2: NUMBER OF LABORATORIES: 19 ARITHMETIC MEAN VALUE: 0.071 MEDIAN: 0.071 STANDARD DEVIATION: 0.004 REL. ST. DEVIATION (%): 5.620</p> <p>RESULTS IN DECREASING ORDER: 19 1.130 UNUSED 35 0.071 3 0.080 33 0.070 131 0.077 38 0.070 12 0.075 10 0.069 39 0.074 4 0.068 22 0.073 24 0.068 23 0.073 36 0.068 15 0.072 16 0.067 135 0.072 34 0.065 20 0.071 31 0.064 "UNUSED": DATA UNUSED IN RUN 2</p>

Table 15: The ratios of the theoretical values and the results found by the laboratories in the determination of nitrogen dioxide in absorbing solutions.

Lab.No.	Measured / Expected				Average
	Sample No.				
	C1	C2	C3	C4	
3	1.05	0.87	0.79	1.13	0.96
4	0.93	0.96	0.97	0.96	0.96
10	0.97	0.97	0.98	0.97	0.97
12	1.03	1.03	1.05	1.06	1.04
15	1.02	0.99	0.98	1.01	1.00
16	1.00	0.98	0.97	0.94	0.97
19	15.57	14.00	13.33	15.90	14.70
20	0.99	0.98	0.98	1.00	0.99
22	0.99	1.01	1.03	1.03	1.02
23	1.09	1.09	1.02	1.03	1.05
24	0.95	1.03	1.01	0.96	0.99
31	0.89	0.90	0.89	0.90	0.89
33	0.91	0.90	0.94	0.98	0.93
34	0.98	1.02	0.96	0.91	0.97
35	0.98	1.00	1.02	1.00	1.00
36	0.97	0.97	0.97	0.96	0.96
38	0.98	0.98	0.98	0.98	0.98
39	1.10	1.01	1.03	1.04	1.05
131	1.01	1.01	0.97	1.08	1.02
135	1.01	1.01	1.02	1.01	1.01

Table 16: Analytical results for ammonia on impregnated filter.

<p>AMMONIA ON IMPREGNATED FILTER SAMPLE NO.: J2 THEORETICAL VALUE 8.020 UNIT: µg N/FILTER</p> <p>RUN 1: NUMBER OF LABORATORIES: 16 ARITHMETIC MEAN VALUE: 6.747 MEDIAN: 7.724 STANDARD DEVIATION: 2.533 REL. ST. DEVIATION (%): 37.537</p> <p>RUN 2: NUMBER OF LABORATORIES: 14 ARITHMETIC MEAN VALUE: 7.573 MEDIAN: 7.895 STANDARD DEVIATION: 1.230 REL. ST. DEVIATION (%): 16.236</p> <p>RESULTS IN DECREASING ORDER: 131 9.080 22 7.593 13 8.850 15 7.470 30 8.510 16 7.165 11 8.415 10 6.764 39 8.160 31 5.165 20 8.080 33 4.980 4 7.935 19 1.246 UNUSED 5 7.855 135 0.685 UNUSED</p> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	<p>AMMONIA ON IMPREGNATED FILTER SAMPLE NO.: J3 THEORETICAL VALUE 6.015 UNIT: µg N/FILTER</p> <p>RUN 1: NUMBER OF LABORATORIES: 16 ARITHMETIC MEAN VALUE: 5.810 MEDIAN: 5.535 STANDARD DEVIATION: 2.002 REL. ST. DEVIATION (%): 34.458</p> <p>RUN 2: NUMBER OF LABORATORIES: 15 ARITHMETIC MEAN VALUE: 5.394 MEDIAN: 5.465 STANDARD DEVIATION: 1.150 REL. ST. DEVIATION (%): 21.323</p> <p>RESULTS IN DECREASING ORDER: 135 12.055 UNUSED 11 5.465 19 7.438 15 5.430 13 6.630 4 5.405 30 6.310 16 5.315 131 6.010 22 4.972 39 5.820 10 4.574 20 5.700 31 3.215 5 5.605 33 3.014</p> <p>"UNUSED": DATA UNUSED IN RUN 2</p>
<p>AMMONIA ON IMPREGNATED FILTER SAMPLE NO.: J4 THEORETICAL VALUE 36.090 UNIT: µg N/FILTER</p> <p>RUN 1: NUMBER OF LABORATORIES: 16 ARITHMETIC MEAN VALUE: 31.793 MEDIAN: 33.943 STANDARD DEVIATION: 6.034 REL. ST. DEVIATION (%): 18.979</p> <p>RUN 2: NUMBER OF LABORATORIES: 15 ARITHMETIC MEAN VALUE: 32.666 MEDIAN: 34.210 STANDARD DEVIATION: 5.094 REL. ST. DEVIATION (%): 15.593</p> <p>RESULTS IN DECREASING ORDER: 19 40.093 4 33.675 11 36.745 22 32.842 30 36.370 135 31.545 15 35.480 131 31.380 5 35.455 16 29.045 20 34.760 10 22.138 13 34.690 31 21.565 39 34.210 33 18.699 UNUSED</p> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	<p>AMMONIA ON IMPREGNATED FILTER SAMPLE NO.: J5 THEORETICAL VALUE 32.080 UNIT: µg N/FILTER</p> <p>RUN 1: NUMBER OF LABORATORIES: 16 ARITHMETIC MEAN VALUE: 29.110 MEDIAN: 30.703 STANDARD DEVIATION: 4.864 REL. ST. DEVIATION (%): 16.709</p> <p>RUN 2: NUMBER OF LABORATORIES: 16 ARITHMETIC MEAN VALUE: 29.110 MEDIAN: 30.703 STANDARD DEVIATION: 4.864 REL. ST. DEVIATION (%): 16.709</p> <p>RESULTS IN DECREASING ORDER: 19 35.705 39 30.611 131 33.190 15 30.590 30 32.720 4 29.565 11 32.645 22 28.728 5 31.555 16 26.675 20 31.260 10 20.361 13 31.250 31 20.215 135 30.795 33 19.902</p> <p>"UNUSED": DATA UNUSED IN RUN 2</p>

Table 17: The ratios of the theoretical values and the results found by the laboratories in the determination of ammonia on impregnated filters. The reported results are corrected for an average blank value (J1 and J6).

Lab.No.	Measured / Expected				Average
	Sample No.				
	J2	J3	J4	J5	
4	0.99	0.90	0.93	0.92	0.94
5	0.98	0.93	0.98	0.98	0.97
10	0.84	0.76	0.61	0.63	0.71
11	1.05	0.91	1.02	1.02	1.00
13	1.10	1.10	0.96	0.97	1.04
15	0.93	0.90	0.98	0.95	0.94
16	0.89	0.88	0.80	0.83	0.85
19	0.16	1.24	1.11	1.11	0.90
20	1.01	0.95	0.96	0.97	0.97
22	0.95	0.83	0.91	0.90	0.89
30	1.06	1.05	1.01	1.02	1.03
31	0.64	0.53	0.60	0.63	0.60
33	0.62	0.50	0.52	0.62	0.57
39	1.02	0.97	0.95	0.95	0.97
131	1.13	1.00	0.87	1.03	1.01
135	0.09	2.00	0.87	0.96	0.98

Table 18: Analytical results for sulphate in precipitations samples.

<p>SULPHATE SAMPLE NO.: G1 THEORETICAL VALUE 1.509 UNIT: µg S/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 52 ARITHMETIC MEAN VALUE: 1.563 MEDIAN: 1.503 STANDARD DEVIATION: 0.371 REL. ST. DEVIATION (%): 23.712</p> <p>RUN 2: NUMBER OF LABORATORIES: 51 ARITHMETIC MEAN VALUE: 1.514 MEDIAN: 1.501 STANDARD DEVIATION: 0.105 REL. ST. DEVIATION (%): 6.925</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tr><td>130</td><td>4.080</td><td>UNUSED</td><td>27</td><td>1.501</td></tr> <tr><td>119</td><td>1.850</td><td></td><td>12</td><td>1.500</td></tr> <tr><td>133</td><td>1.812</td><td></td><td>121</td><td>1.500</td></tr> <tr><td>116</td><td>1.809</td><td></td><td>136</td><td>1.500</td></tr> <tr><td>18</td><td>1.724</td><td></td><td>4</td><td>1.499</td></tr> <tr><td>39</td><td>1.617</td><td></td><td>36</td><td>1.497</td></tr> <tr><td>17</td><td>1.610</td><td></td><td>134</td><td>1.494</td></tr> <tr><td>22</td><td>1.582</td><td></td><td>6</td><td>1.493</td></tr> <tr><td>13</td><td>1.580</td><td></td><td>3</td><td>1.492</td></tr> <tr><td>118</td><td>1.550</td><td></td><td>112</td><td>1.490</td></tr> <tr><td>107</td><td>1.540</td><td></td><td>16</td><td>1.483</td></tr> <tr><td>35</td><td>1.539</td><td></td><td>19</td><td>1.481</td></tr> <tr><td>1</td><td>1.530</td><td></td><td>104</td><td>1.480</td></tr> <tr><td>11</td><td>1.524</td><td></td><td>26</td><td>1.470</td></tr> <tr><td>14</td><td>1.523</td><td></td><td>10</td><td>1.468</td></tr> <tr><td>21</td><td>1.523</td><td></td><td>131</td><td>1.463</td></tr> <tr><td>115</td><td>1.520</td><td></td><td>105</td><td>1.457</td></tr> <tr><td>135</td><td>1.520</td><td></td><td>15</td><td>1.450</td></tr> <tr><td>30</td><td>1.518</td><td></td><td>7</td><td>1.430</td></tr> <tr><td>8</td><td>1.517</td><td></td><td>126</td><td>1.430</td></tr> <tr><td>33</td><td>1.513</td><td></td><td>111</td><td>1.420</td></tr> <tr><td>23</td><td>1.511</td><td></td><td>124</td><td>1.400</td></tr> <tr><td>114</td><td>1.510</td><td></td><td>38</td><td>1.380</td></tr> <tr><td>34</td><td>1.509</td><td></td><td>109</td><td>1.380</td></tr> <tr><td>5</td><td>1.506</td><td></td><td>117</td><td>1.357</td></tr> <tr><td>31</td><td>1.504</td><td></td><td>20</td><td>1.254</td></tr> </table> <p>UNUSED: DATA UNUSED IN RUN 2</p>	130	4.080	UNUSED	27	1.501	119	1.850		12	1.500	133	1.812		121	1.500	116	1.809		136	1.500	18	1.724		4	1.499	39	1.617		36	1.497	17	1.610		134	1.494	22	1.582		6	1.493	13	1.580		3	1.492	118	1.550		112	1.490	107	1.540		16	1.483	35	1.539		19	1.481	1	1.530		104	1.480	11	1.524		26	1.470	14	1.523		10	1.468	21	1.523		131	1.463	115	1.520		105	1.457	135	1.520		15	1.450	30	1.518		7	1.430	8	1.517		126	1.430	33	1.513		111	1.420	23	1.511		124	1.400	114	1.510		38	1.380	34	1.509		109	1.380	5	1.506		117	1.357	31	1.504		20	1.254	<p>SULPHATE SAMPLE NO.: G2 THEORETICAL VALUE 0.953 UNIT: µg S/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 52 ARITHMETIC MEAN VALUE: 0.982 MEDIAN: 0.950 STANDARD DEVIATION: 0.227 REL. ST. DEVIATION (%): 23.132</p> <p>RUN 2: NUMBER OF LABORATORIES: 51 ARITHMETIC MEAN VALUE: 0.951 MEDIAN: 0.950 STANDARD DEVIATION: 0.050 REL. ST. DEVIATION (%): 5.223</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tr><td>130</td><td>2.550</td><td>UNUSED</td><td>112</td><td>0.950</td></tr> <tr><td>116</td><td>1.173</td><td></td><td>114</td><td>0.950</td></tr> <tr><td>133</td><td>1.048</td><td></td><td>135</td><td>0.950</td></tr> <tr><td>39</td><td>1.014</td><td></td><td>4</td><td>0.948</td></tr> <tr><td>13</td><td>1.010</td><td></td><td>33</td><td>0.948</td></tr> <tr><td>17</td><td>1.010</td><td></td><td>6</td><td>0.943</td></tr> <tr><td>115</td><td>1.000</td><td></td><td>134</td><td>0.943</td></tr> <tr><td>121</td><td>0.990</td><td></td><td>3</td><td>0.940</td></tr> <tr><td>21</td><td>0.974</td><td></td><td>31</td><td>0.936</td></tr> <tr><td>107</td><td>0.974</td><td></td><td>131</td><td>0.936</td></tr> <tr><td>5</td><td>0.973</td><td></td><td>26</td><td>0.933</td></tr> <tr><td>19</td><td>0.973</td><td></td><td>15</td><td>0.930</td></tr> <tr><td>136</td><td>0.973</td><td></td><td>36</td><td>0.928</td></tr> <tr><td>11</td><td>0.972</td><td></td><td>16</td><td>0.927</td></tr> <tr><td>118</td><td>0.970</td><td></td><td>7</td><td>0.924</td></tr> <tr><td>10</td><td>0.969</td><td></td><td>104</td><td>0.920</td></tr> <tr><td>35</td><td>0.967</td><td></td><td>22</td><td>0.902</td></tr> <tr><td>8</td><td>0.965</td><td></td><td>124</td><td>0.900</td></tr> <tr><td>23</td><td>0.965</td><td></td><td>126</td><td>0.900</td></tr> <tr><td>1</td><td>0.960</td><td></td><td>18</td><td>0.899</td></tr> <tr><td>119</td><td>0.960</td><td></td><td>105</td><td>0.899</td></tr> <tr><td>14</td><td>0.959</td><td></td><td>111</td><td>0.899</td></tr> <tr><td>34</td><td>0.955</td><td></td><td>38</td><td>0.890</td></tr> <tr><td>30</td><td>0.951</td><td></td><td>109</td><td>0.890</td></tr> <tr><td>12</td><td>0.950</td><td></td><td>117</td><td>0.875</td></tr> <tr><td>27</td><td>0.950</td><td></td><td>20</td><td>0.841</td></tr> </table> <p>UNUSED: DATA UNUSED IN RUN 2</p>	130	2.550	UNUSED	112	0.950	116	1.173		114	0.950	133	1.048		135	0.950	39	1.014		4	0.948	13	1.010		33	0.948	17	1.010		6	0.943	115	1.000		134	0.943	121	0.990		3	0.940	21	0.974		31	0.936	107	0.974		131	0.936	5	0.973		26	0.933	19	0.973		15	0.930	136	0.973		36	0.928	11	0.972		16	0.927	118	0.970		7	0.924	10	0.969		104	0.920	35	0.967		22	0.902	8	0.965		124	0.900	23	0.965		126	0.900	1	0.960		18	0.899	119	0.960		105	0.899	14	0.959		111	0.899	34	0.955		38	0.890	30	0.951		109	0.890	12	0.950		117	0.875	27	0.950		20	0.841
130	4.080	UNUSED	27	1.501																																																																																																																																																																																																																																																																	
119	1.850		12	1.500																																																																																																																																																																																																																																																																	
133	1.812		121	1.500																																																																																																																																																																																																																																																																	
116	1.809		136	1.500																																																																																																																																																																																																																																																																	
18	1.724		4	1.499																																																																																																																																																																																																																																																																	
39	1.617		36	1.497																																																																																																																																																																																																																																																																	
17	1.610		134	1.494																																																																																																																																																																																																																																																																	
22	1.582		6	1.493																																																																																																																																																																																																																																																																	
13	1.580		3	1.492																																																																																																																																																																																																																																																																	
118	1.550		112	1.490																																																																																																																																																																																																																																																																	
107	1.540		16	1.483																																																																																																																																																																																																																																																																	
35	1.539		19	1.481																																																																																																																																																																																																																																																																	
1	1.530		104	1.480																																																																																																																																																																																																																																																																	
11	1.524		26	1.470																																																																																																																																																																																																																																																																	
14	1.523		10	1.468																																																																																																																																																																																																																																																																	
21	1.523		131	1.463																																																																																																																																																																																																																																																																	
115	1.520		105	1.457																																																																																																																																																																																																																																																																	
135	1.520		15	1.450																																																																																																																																																																																																																																																																	
30	1.518		7	1.430																																																																																																																																																																																																																																																																	
8	1.517		126	1.430																																																																																																																																																																																																																																																																	
33	1.513		111	1.420																																																																																																																																																																																																																																																																	
23	1.511		124	1.400																																																																																																																																																																																																																																																																	
114	1.510		38	1.380																																																																																																																																																																																																																																																																	
34	1.509		109	1.380																																																																																																																																																																																																																																																																	
5	1.506		117	1.357																																																																																																																																																																																																																																																																	
31	1.504		20	1.254																																																																																																																																																																																																																																																																	
130	2.550	UNUSED	112	0.950																																																																																																																																																																																																																																																																	
116	1.173		114	0.950																																																																																																																																																																																																																																																																	
133	1.048		135	0.950																																																																																																																																																																																																																																																																	
39	1.014		4	0.948																																																																																																																																																																																																																																																																	
13	1.010		33	0.948																																																																																																																																																																																																																																																																	
17	1.010		6	0.943																																																																																																																																																																																																																																																																	
115	1.000		134	0.943																																																																																																																																																																																																																																																																	
121	0.990		3	0.940																																																																																																																																																																																																																																																																	
21	0.974		31	0.936																																																																																																																																																																																																																																																																	
107	0.974		131	0.936																																																																																																																																																																																																																																																																	
5	0.973		26	0.933																																																																																																																																																																																																																																																																	
19	0.973		15	0.930																																																																																																																																																																																																																																																																	
136	0.973		36	0.928																																																																																																																																																																																																																																																																	
11	0.972		16	0.927																																																																																																																																																																																																																																																																	
118	0.970		7	0.924																																																																																																																																																																																																																																																																	
10	0.969		104	0.920																																																																																																																																																																																																																																																																	
35	0.967		22	0.902																																																																																																																																																																																																																																																																	
8	0.965		124	0.900																																																																																																																																																																																																																																																																	
23	0.965		126	0.900																																																																																																																																																																																																																																																																	
1	0.960		18	0.899																																																																																																																																																																																																																																																																	
119	0.960		105	0.899																																																																																																																																																																																																																																																																	
14	0.959		111	0.899																																																																																																																																																																																																																																																																	
34	0.955		38	0.890																																																																																																																																																																																																																																																																	
30	0.951		109	0.890																																																																																																																																																																																																																																																																	
12	0.950		117	0.875																																																																																																																																																																																																																																																																	
27	0.950		20	0.841																																																																																																																																																																																																																																																																	
<p>SULPHATE SAMPLE NO.: G3 THEORETICAL VALUE 1.113 UNIT: µg S/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 52 ARITHMETIC MEAN VALUE: 1.160 MEDIAN: 1.117 STANDARD DEVIATION: 0.274 REL. ST. DEVIATION (%): 23.605</p> <p>RUN 2: NUMBER OF LABORATORIES: 51 ARITHMETIC MEAN VALUE: 1.123 MEDIAN: 1.113 STANDARD DEVIATION: 0.077 REL. ST. DEVIATION (%): 6.830</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tr><td>130</td><td>3.020</td><td>UNUSED</td><td>14</td><td>1.113</td></tr> <tr><td>116</td><td>1.420</td><td></td><td>136</td><td>1.112</td></tr> <tr><td>119</td><td>1.380</td><td></td><td>12</td><td>1.110</td></tr> <tr><td>133</td><td>1.249</td><td></td><td>104</td><td>1.110</td></tr> <tr><td>18</td><td>1.206</td><td></td><td>27</td><td>1.108</td></tr> <tr><td>11</td><td>1.196</td><td></td><td>30</td><td>1.108</td></tr> <tr><td>17</td><td>1.193</td><td></td><td>6</td><td>1.104</td></tr> <tr><td>13</td><td>1.190</td><td></td><td>23</td><td>1.101</td></tr> <tr><td>121</td><td>1.180</td><td></td><td>36</td><td>1.101</td></tr> <tr><td>39</td><td>1.165</td><td></td><td>31</td><td>1.100</td></tr> <tr><td>118</td><td>1.160</td><td></td><td>126</td><td>1.100</td></tr> <tr><td>115</td><td>1.150</td><td></td><td>134</td><td>1.098</td></tr> <tr><td>4</td><td>1.148</td><td></td><td>3</td><td>1.093</td></tr> <tr><td>35</td><td>1.136</td><td></td><td>26</td><td>1.090</td></tr> <tr><td>21</td><td>1.134</td><td></td><td>16</td><td>1.088</td></tr> <tr><td>19</td><td>1.133</td><td></td><td>131</td><td>1.083</td></tr> <tr><td>1</td><td>1.130</td><td></td><td>7</td><td>1.078</td></tr> <tr><td>33</td><td>1.130</td><td></td><td>22</td><td>1.072</td></tr> <tr><td>107</td><td>1.130</td><td></td><td>15</td><td>1.070</td></tr> <tr><td>112</td><td>1.130</td><td></td><td>105</td><td>1.056</td></tr> <tr><td>34</td><td>1.128</td><td></td><td>111</td><td>1.050</td></tr> <tr><td>8</td><td>1.127</td><td></td><td>109</td><td>1.040</td></tr> <tr><td>5</td><td>1.126</td><td></td><td>117</td><td>1.029</td></tr> <tr><td>10</td><td>1.122</td><td></td><td>124</td><td>1.000</td></tr> <tr><td>114</td><td>1.120</td><td></td><td>38</td><td>0.990</td></tr> <tr><td>135</td><td>1.120</td><td></td><td>20</td><td>0.983</td></tr> </table> <p>UNUSED: DATA UNUSED IN RUN 2</p>	130	3.020	UNUSED	14	1.113	116	1.420		136	1.112	119	1.380		12	1.110	133	1.249		104	1.110	18	1.206		27	1.108	11	1.196		30	1.108	17	1.193		6	1.104	13	1.190		23	1.101	121	1.180		36	1.101	39	1.165		31	1.100	118	1.160		126	1.100	115	1.150		134	1.098	4	1.148		3	1.093	35	1.136		26	1.090	21	1.134		16	1.088	19	1.133		131	1.083	1	1.130		7	1.078	33	1.130		22	1.072	107	1.130		15	1.070	112	1.130		105	1.056	34	1.128		111	1.050	8	1.127		109	1.040	5	1.126		117	1.029	10	1.122		124	1.000	114	1.120		38	0.990	135	1.120		20	0.983	<p>SULPHATE SAMPLE NO.: G4 THEORETICAL VALUE 1.400 UNIT: µg S/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 52 ARITHMETIC MEAN VALUE: 1.448 MEDIAN: 1.388 STANDARD DEVIATION: 0.355 REL. ST. DEVIATION (%): 24.548</p> <p>RUN 2: NUMBER OF LABORATORIES: 51 ARITHMETIC MEAN VALUE: 1.401 MEDIAN: 1.385 STANDARD DEVIATION: 0.106 REL. ST. DEVIATION (%): 7.574</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tr><td>130</td><td>3.850</td><td>UNUSED</td><td>34</td><td>1.385</td></tr> <tr><td>116</td><td>1.836</td><td></td><td>27</td><td>1.384</td></tr> <tr><td>13</td><td>1.670</td><td></td><td>23</td><td>1.381</td></tr> <tr><td>133</td><td>1.664</td><td></td><td>12</td><td>1.380</td></tr> <tr><td>119</td><td>1.550</td><td></td><td>112</td><td>1.380</td></tr> <tr><td>18</td><td>1.502</td><td></td><td>6</td><td>1.379</td></tr> <tr><td>39</td><td>1.498</td><td></td><td>31</td><td>1.376</td></tr> <tr><td>17</td><td>1.489</td><td></td><td>3</td><td>1.373</td></tr> <tr><td>118</td><td>1.460</td><td></td><td>10</td><td>1.372</td></tr> <tr><td>22</td><td>1.459</td><td></td><td>16</td><td>1.371</td></tr> <tr><td>121</td><td>1.440</td><td></td><td>136</td><td>1.371</td></tr> <tr><td>33</td><td>1.423</td><td></td><td>126</td><td>1.370</td></tr> <tr><td>35</td><td>1.423</td><td></td><td>115</td><td>1.360</td></tr> <tr><td>5</td><td>1.415</td><td></td><td>134</td><td>1.357</td></tr> <tr><td>1</td><td>1.410</td><td></td><td>26</td><td>1.352</td></tr> <tr><td>19</td><td>1.407</td><td></td><td>36</td><td>1.348</td></tr> <tr><td>4</td><td>1.404</td><td></td><td>15</td><td>1.340</td></tr> <tr><td>21</td><td>1.404</td><td></td><td>111</td><td>1.330</td></tr> <tr><td>104</td><td>1.400</td><td></td><td>7</td><td>1.328</td></tr> <tr><td>107</td><td>1.400</td><td></td><td>14</td><td>1.325</td></tr> <tr><td>135</td><td>1.400</td><td></td><td>105</td><td>1.318</td></tr> <tr><td>8</td><td>1.399</td><td></td><td>124</td><td>1.300</td></tr> <tr><td>30</td><td>1.398</td><td></td><td>38</td><td>1.290</td></tr> <tr><td>11</td><td>1.391</td><td></td><td>109</td><td>1.270</td></tr> <tr><td>114</td><td>1.390</td><td></td><td>117</td><td>1.249</td></tr> <tr><td>131</td><td>1.390</td><td></td><td>20</td><td>1.142</td></tr> </table> <p>UNUSED: DATA UNUSED IN RUN 2</p>	130	3.850	UNUSED	34	1.385	116	1.836		27	1.384	13	1.670		23	1.381	133	1.664		12	1.380	119	1.550		112	1.380	18	1.502		6	1.379	39	1.498		31	1.376	17	1.489		3	1.373	118	1.460		10	1.372	22	1.459		16	1.371	121	1.440		136	1.371	33	1.423		126	1.370	35	1.423		115	1.360	5	1.415		134	1.357	1	1.410		26	1.352	19	1.407		36	1.348	4	1.404		15	1.340	21	1.404		111	1.330	104	1.400		7	1.328	107	1.400		14	1.325	135	1.400		105	1.318	8	1.399		124	1.300	30	1.398		38	1.290	11	1.391		109	1.270	114	1.390		117	1.249	131	1.390		20	1.142
130	3.020	UNUSED	14	1.113																																																																																																																																																																																																																																																																	
116	1.420		136	1.112																																																																																																																																																																																																																																																																	
119	1.380		12	1.110																																																																																																																																																																																																																																																																	
133	1.249		104	1.110																																																																																																																																																																																																																																																																	
18	1.206		27	1.108																																																																																																																																																																																																																																																																	
11	1.196		30	1.108																																																																																																																																																																																																																																																																	
17	1.193		6	1.104																																																																																																																																																																																																																																																																	
13	1.190		23	1.101																																																																																																																																																																																																																																																																	
121	1.180		36	1.101																																																																																																																																																																																																																																																																	
39	1.165		31	1.100																																																																																																																																																																																																																																																																	
118	1.160		126	1.100																																																																																																																																																																																																																																																																	
115	1.150		134	1.098																																																																																																																																																																																																																																																																	
4	1.148		3	1.093																																																																																																																																																																																																																																																																	
35	1.136		26	1.090																																																																																																																																																																																																																																																																	
21	1.134		16	1.088																																																																																																																																																																																																																																																																	
19	1.133		131	1.083																																																																																																																																																																																																																																																																	
1	1.130		7	1.078																																																																																																																																																																																																																																																																	
33	1.130		22	1.072																																																																																																																																																																																																																																																																	
107	1.130		15	1.070																																																																																																																																																																																																																																																																	
112	1.130		105	1.056																																																																																																																																																																																																																																																																	
34	1.128		111	1.050																																																																																																																																																																																																																																																																	
8	1.127		109	1.040																																																																																																																																																																																																																																																																	
5	1.126		117	1.029																																																																																																																																																																																																																																																																	
10	1.122		124	1.000																																																																																																																																																																																																																																																																	
114	1.120		38	0.990																																																																																																																																																																																																																																																																	
135	1.120		20	0.983																																																																																																																																																																																																																																																																	
130	3.850	UNUSED	34	1.385																																																																																																																																																																																																																																																																	
116	1.836		27	1.384																																																																																																																																																																																																																																																																	
13	1.670		23	1.381																																																																																																																																																																																																																																																																	
133	1.664		12	1.380																																																																																																																																																																																																																																																																	
119	1.550		112	1.380																																																																																																																																																																																																																																																																	
18	1.502		6	1.379																																																																																																																																																																																																																																																																	
39	1.498		31	1.376																																																																																																																																																																																																																																																																	
17	1.489		3	1.373																																																																																																																																																																																																																																																																	
118	1.460		10	1.372																																																																																																																																																																																																																																																																	
22	1.459		16	1.371																																																																																																																																																																																																																																																																	
121	1.440		136	1.371																																																																																																																																																																																																																																																																	
33	1.423		126	1.370																																																																																																																																																																																																																																																																	
35	1.423		115	1.360																																																																																																																																																																																																																																																																	
5	1.415		134	1.357																																																																																																																																																																																																																																																																	
1	1.410		26	1.352																																																																																																																																																																																																																																																																	
19	1.407		36	1.348																																																																																																																																																																																																																																																																	
4	1.404		15	1.340																																																																																																																																																																																																																																																																	
21	1.404		111	1.330																																																																																																																																																																																																																																																																	
104	1.400		7	1.328																																																																																																																																																																																																																																																																	
107	1.400		14	1.325																																																																																																																																																																																																																																																																	
135	1.400		105	1.318																																																																																																																																																																																																																																																																	
8	1.399		124	1.300																																																																																																																																																																																																																																																																	
30	1.398		38	1.290																																																																																																																																																																																																																																																																	
11	1.391		109	1.270																																																																																																																																																																																																																																																																	
114	1.390		117	1.249																																																																																																																																																																																																																																																																	
131	1.390		20	1.142																																																																																																																																																																																																																																																																	

Table 19: Analytical results for nitrate in precipitations samples.

<p>NITRATE SAMPLE NO.: G1 THEORETICAL VALUE 0.698 UNIT: µg N/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 54 ARITHMETIC MEAN VALUE: 0.714 MEDIAN: 0.694 STANDARD DEVIATION: 0.152 REL. ST. DEVIATION (%): 21.328</p> <p>RUN 2: NUMBER OF LABORATORIES: 53 ARITHMETIC MEAN VALUE: 0.694 MEDIAN: 0.693 STANDARD DEVIATION: 0.051 REL. ST. DEVIATION (%): 7.345</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>24</td><td>1.750</td><td>UNUSED</td><td>14</td><td>0.693</td></tr> <tr><td>40</td><td>0.963</td><td></td><td>36</td><td>0.691</td></tr> <tr><td>11</td><td>0.762</td><td></td><td>22</td><td>0.690</td></tr> <tr><td>39</td><td>0.753</td><td></td><td>34</td><td>0.690</td></tr> <tr><td>19</td><td>0.732</td><td></td><td>114</td><td>0.690</td></tr> <tr><td>115</td><td>0.730</td><td></td><td>118</td><td>0.690</td></tr> <tr><td>17</td><td>0.726</td><td></td><td>135</td><td>0.690</td></tr> <tr><td>113</td><td>0.720</td><td></td><td>13</td><td>0.688</td></tr> <tr><td>107</td><td>0.713</td><td></td><td>6</td><td>0.686</td></tr> <tr><td>1</td><td>0.710</td><td></td><td>10</td><td>0.686</td></tr> <tr><td>112</td><td>0.710</td><td></td><td>26</td><td>0.686</td></tr> <tr><td>5</td><td>0.707</td><td></td><td>7</td><td>0.683</td></tr> <tr><td>20</td><td>0.707</td><td></td><td>134</td><td>0.682</td></tr> <tr><td>23</td><td>0.703</td><td></td><td>119</td><td>0.680</td></tr> <tr><td>27</td><td>0.702</td><td></td><td>111</td><td>0.677</td></tr> <tr><td>12</td><td>0.700</td><td></td><td>16</td><td>0.674</td></tr> <tr><td>30</td><td>0.700</td><td></td><td>15</td><td>0.670</td></tr> <tr><td>104</td><td>0.700</td><td></td><td>109</td><td>0.670</td></tr> <tr><td>124</td><td>0.700</td><td></td><td>126</td><td>0.670</td></tr> <tr><td>130</td><td>0.700</td><td></td><td>121</td><td>0.669</td></tr> <tr><td>4</td><td>0.698</td><td></td><td>3</td><td>0.667</td></tr> <tr><td>8</td><td>0.698</td><td></td><td>117</td><td>0.664</td></tr> <tr><td>31</td><td>0.698</td><td></td><td>38</td><td>0.660</td></tr> <tr><td>33</td><td>0.698</td><td></td><td>136</td><td>0.655</td></tr> <tr><td>133</td><td>0.698</td><td></td><td>131</td><td>0.641</td></tr> <tr><td>35</td><td>0.697</td><td></td><td>105</td><td>0.631</td></tr> <tr><td>21</td><td>0.696</td><td></td><td>116</td><td>0.510</td></tr> </tbody> </table> <p>UNUSED: DATA UNUSED IN RUN 2</p>	24	1.750	UNUSED	14	0.693	40	0.963		36	0.691	11	0.762		22	0.690	39	0.753		34	0.690	19	0.732		114	0.690	115	0.730		118	0.690	17	0.726		135	0.690	113	0.720		13	0.688	107	0.713		6	0.686	1	0.710		10	0.686	112	0.710		26	0.686	5	0.707		7	0.683	20	0.707		134	0.682	23	0.703		119	0.680	27	0.702		111	0.677	12	0.700		16	0.674	30	0.700		15	0.670	104	0.700		109	0.670	124	0.700		126	0.670	130	0.700		121	0.669	4	0.698		3	0.667	8	0.698		117	0.664	31	0.698		38	0.660	33	0.698		136	0.655	133	0.698		131	0.641	35	0.697		105	0.631	21	0.696		116	0.510	<p>NITRATE SAMPLE NO.: G2 THEORETICAL VALUE 0.497 UNIT: µg N/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 54 ARITHMETIC MEAN VALUE: 0.511 MEDIAN: 0.496 STANDARD DEVIATION: 0.091 REL. ST. DEVIATION (%): 17.846</p> <p>RUN 2: NUMBER OF LABORATORIES: 51 ARITHMETIC MEAN VALUE: 0.490 MEDIAN: 0.494 STANDARD DEVIATION: 0.030 REL. ST. DEVIATION (%): 6.069</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>24</td><td>0.950</td><td>UNUSED</td><td>21</td><td>0.495</td></tr> <tr><td>117</td><td>0.843</td><td>UNUSED</td><td>26</td><td>0.494</td></tr> <tr><td>40</td><td>0.779</td><td>UNUSED</td><td>104</td><td>0.494</td></tr> <tr><td>11</td><td>0.564</td><td></td><td>31</td><td>0.493</td></tr> <tr><td>112</td><td>0.560</td><td></td><td>23</td><td>0.492</td></tr> <tr><td>130</td><td>0.520</td><td></td><td>33</td><td>0.491</td></tr> <tr><td>13</td><td>0.519</td><td></td><td>38</td><td>0.490</td></tr> <tr><td>39</td><td>0.517</td><td></td><td>114</td><td>0.490</td></tr> <tr><td>17</td><td>0.516</td><td></td><td>115</td><td>0.490</td></tr> <tr><td>35</td><td>0.515</td><td></td><td>6</td><td>0.487</td></tr> <tr><td>19</td><td>0.513</td><td></td><td>111</td><td>0.487</td></tr> <tr><td>113</td><td>0.510</td><td></td><td>15</td><td>0.480</td></tr> <tr><td>5</td><td>0.505</td><td></td><td>119</td><td>0.480</td></tr> <tr><td>107</td><td>0.505</td><td></td><td>14</td><td>0.479</td></tr> <tr><td>30</td><td>0.504</td><td></td><td>134</td><td>0.479</td></tr> <tr><td>10</td><td>0.502</td><td></td><td>136</td><td>0.478</td></tr> <tr><td>20</td><td>0.502</td><td></td><td>3</td><td>0.477</td></tr> <tr><td>8</td><td>0.501</td><td></td><td>7</td><td>0.477</td></tr> <tr><td>1</td><td>0.500</td><td></td><td>36</td><td>0.475</td></tr> <tr><td>4</td><td>0.500</td><td></td><td>16</td><td>0.473</td></tr> <tr><td>12</td><td>0.500</td><td></td><td>22</td><td>0.461</td></tr> <tr><td>118</td><td>0.500</td><td></td><td>109</td><td>0.460</td></tr> <tr><td>124</td><td>0.500</td><td></td><td>126</td><td>0.460</td></tr> <tr><td>135</td><td>0.500</td><td></td><td>131</td><td>0.460</td></tr> <tr><td>34</td><td>0.499</td><td></td><td>105</td><td>0.436</td></tr> <tr><td>27</td><td>0.498</td><td></td><td>133</td><td>0.421</td></tr> <tr><td>121</td><td>0.497</td><td></td><td>116</td><td>0.369</td></tr> </tbody> </table> <p>UNUSED: DATA UNUSED IN RUN 2</p>	24	0.950	UNUSED	21	0.495	117	0.843	UNUSED	26	0.494	40	0.779	UNUSED	104	0.494	11	0.564		31	0.493	112	0.560		23	0.492	130	0.520		33	0.491	13	0.519		38	0.490	39	0.517		114	0.490	17	0.516		115	0.490	35	0.515		6	0.487	19	0.513		111	0.487	113	0.510		15	0.480	5	0.505		119	0.480	107	0.505		14	0.479	30	0.504		134	0.479	10	0.502		136	0.478	20	0.502		3	0.477	8	0.501		7	0.477	1	0.500		36	0.475	4	0.500		16	0.473	12	0.500		22	0.461	118	0.500		109	0.460	124	0.500		126	0.460	135	0.500		131	0.460	34	0.499		105	0.436	27	0.498		133	0.421	121	0.497		116	0.369
24	1.750	UNUSED	14	0.693																																																																																																																																																																																																																																																																											
40	0.963		36	0.691																																																																																																																																																																																																																																																																											
11	0.762		22	0.690																																																																																																																																																																																																																																																																											
39	0.753		34	0.690																																																																																																																																																																																																																																																																											
19	0.732		114	0.690																																																																																																																																																																																																																																																																											
115	0.730		118	0.690																																																																																																																																																																																																																																																																											
17	0.726		135	0.690																																																																																																																																																																																																																																																																											
113	0.720		13	0.688																																																																																																																																																																																																																																																																											
107	0.713		6	0.686																																																																																																																																																																																																																																																																											
1	0.710		10	0.686																																																																																																																																																																																																																																																																											
112	0.710		26	0.686																																																																																																																																																																																																																																																																											
5	0.707		7	0.683																																																																																																																																																																																																																																																																											
20	0.707		134	0.682																																																																																																																																																																																																																																																																											
23	0.703		119	0.680																																																																																																																																																																																																																																																																											
27	0.702		111	0.677																																																																																																																																																																																																																																																																											
12	0.700		16	0.674																																																																																																																																																																																																																																																																											
30	0.700		15	0.670																																																																																																																																																																																																																																																																											
104	0.700		109	0.670																																																																																																																																																																																																																																																																											
124	0.700		126	0.670																																																																																																																																																																																																																																																																											
130	0.700		121	0.669																																																																																																																																																																																																																																																																											
4	0.698		3	0.667																																																																																																																																																																																																																																																																											
8	0.698		117	0.664																																																																																																																																																																																																																																																																											
31	0.698		38	0.660																																																																																																																																																																																																																																																																											
33	0.698		136	0.655																																																																																																																																																																																																																																																																											
133	0.698		131	0.641																																																																																																																																																																																																																																																																											
35	0.697		105	0.631																																																																																																																																																																																																																																																																											
21	0.696		116	0.510																																																																																																																																																																																																																																																																											
24	0.950	UNUSED	21	0.495																																																																																																																																																																																																																																																																											
117	0.843	UNUSED	26	0.494																																																																																																																																																																																																																																																																											
40	0.779	UNUSED	104	0.494																																																																																																																																																																																																																																																																											
11	0.564		31	0.493																																																																																																																																																																																																																																																																											
112	0.560		23	0.492																																																																																																																																																																																																																																																																											
130	0.520		33	0.491																																																																																																																																																																																																																																																																											
13	0.519		38	0.490																																																																																																																																																																																																																																																																											
39	0.517		114	0.490																																																																																																																																																																																																																																																																											
17	0.516		115	0.490																																																																																																																																																																																																																																																																											
35	0.515		6	0.487																																																																																																																																																																																																																																																																											
19	0.513		111	0.487																																																																																																																																																																																																																																																																											
113	0.510		15	0.480																																																																																																																																																																																																																																																																											
5	0.505		119	0.480																																																																																																																																																																																																																																																																											
107	0.505		14	0.479																																																																																																																																																																																																																																																																											
30	0.504		134	0.479																																																																																																																																																																																																																																																																											
10	0.502		136	0.478																																																																																																																																																																																																																																																																											
20	0.502		3	0.477																																																																																																																																																																																																																																																																											
8	0.501		7	0.477																																																																																																																																																																																																																																																																											
1	0.500		36	0.475																																																																																																																																																																																																																																																																											
4	0.500		16	0.473																																																																																																																																																																																																																																																																											
12	0.500		22	0.461																																																																																																																																																																																																																																																																											
118	0.500		109	0.460																																																																																																																																																																																																																																																																											
124	0.500		126	0.460																																																																																																																																																																																																																																																																											
135	0.500		131	0.460																																																																																																																																																																																																																																																																											
34	0.499		105	0.436																																																																																																																																																																																																																																																																											
27	0.498		133	0.421																																																																																																																																																																																																																																																																											
121	0.497		116	0.369																																																																																																																																																																																																																																																																											
<p>NITRATE SAMPLE NO.: G3 THEORETICAL VALUE 0.760 UNIT: µg N/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 54 ARITHMETIC MEAN VALUE: 0.772 MEDIAN: 0.757 STANDARD DEVIATION: 0.152 REL. ST. DEVIATION (%): 19.687</p> <p>RUN 2: NUMBER OF LABORATORIES: 52 ARITHMETIC MEAN VALUE: 0.746 MEDIAN: 0.755 STANDARD DEVIATION: 0.042 REL. ST. DEVIATION (%): 5.624</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>24</td><td>1.750</td><td>UNUSED</td><td>21</td><td>0.756</td></tr> <tr><td>40</td><td>1.150</td><td>UNUSED</td><td>10</td><td>0.754</td></tr> <tr><td>11</td><td>0.841</td><td></td><td>126</td><td>0.750</td></tr> <tr><td>112</td><td>0.820</td><td></td><td>36</td><td>0.749</td></tr> <tr><td>118</td><td>0.800</td><td></td><td>134</td><td>0.749</td></tr> <tr><td>19</td><td>0.793</td><td></td><td>22</td><td>0.748</td></tr> <tr><td>17</td><td>0.786</td><td></td><td>6</td><td>0.747</td></tr> <tr><td>39</td><td>0.782</td><td></td><td>31</td><td>0.747</td></tr> <tr><td>113</td><td>0.780</td><td></td><td>26</td><td>0.746</td></tr> <tr><td>5</td><td>0.772</td><td></td><td>13</td><td>0.743</td></tr> <tr><td>1</td><td>0.770</td><td></td><td>135</td><td>0.740</td></tr> <tr><td>133</td><td>0.769</td><td></td><td>111</td><td>0.736</td></tr> <tr><td>20</td><td>0.768</td><td></td><td>16</td><td>0.735</td></tr> <tr><td>107</td><td>0.768</td><td></td><td>3</td><td>0.734</td></tr> <tr><td>4</td><td>0.764</td><td></td><td>7</td><td>0.734</td></tr> <tr><td>8</td><td>0.762</td><td></td><td>119</td><td>0.730</td></tr> <tr><td>35</td><td>0.762</td><td></td><td>117</td><td>0.725</td></tr> <tr><td>27</td><td>0.761</td><td></td><td>121</td><td>0.721</td></tr> <tr><td>34</td><td>0.761</td><td></td><td>131</td><td>0.721</td></tr> <tr><td>12</td><td>0.760</td><td></td><td>15</td><td>0.720</td></tr> <tr><td>104</td><td>0.760</td><td></td><td>109</td><td>0.710</td></tr> <tr><td>114</td><td>0.760</td><td></td><td>115</td><td>0.700</td></tr> <tr><td>130</td><td>0.760</td><td></td><td>124</td><td>0.700</td></tr> <tr><td>23</td><td>0.759</td><td></td><td>136</td><td>0.693</td></tr> <tr><td>14</td><td>0.758</td><td></td><td>105</td><td>0.675</td></tr> <tr><td>33</td><td>0.758</td><td></td><td>116</td><td>0.606</td></tr> <tr><td>30</td><td>0.757</td><td></td><td>38</td><td>0.590</td></tr> </tbody> </table> <p>UNUSED: DATA UNUSED IN RUN 2</p>	24	1.750	UNUSED	21	0.756	40	1.150	UNUSED	10	0.754	11	0.841		126	0.750	112	0.820		36	0.749	118	0.800		134	0.749	19	0.793		22	0.748	17	0.786		6	0.747	39	0.782		31	0.747	113	0.780		26	0.746	5	0.772		13	0.743	1	0.770		135	0.740	133	0.769		111	0.736	20	0.768		16	0.735	107	0.768		3	0.734	4	0.764		7	0.734	8	0.762		119	0.730	35	0.762		117	0.725	27	0.761		121	0.721	34	0.761		131	0.721	12	0.760		15	0.720	104	0.760		109	0.710	114	0.760		115	0.700	130	0.760		124	0.700	23	0.759		136	0.693	14	0.758		105	0.675	33	0.758		116	0.606	30	0.757		38	0.590	<p>NITRATE SAMPLE NO.: G4 THEORETICAL VALUE 0.563 UNIT: µg N/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 54 ARITHMETIC MEAN VALUE: 0.566 MEDIAN: 0.551 STANDARD DEVIATION: 0.112 REL. ST. DEVIATION (%): 19.729</p> <p>RUN 2: NUMBER OF LABORATORIES: 52 ARITHMETIC MEAN VALUE: 0.547 MEDIAN: 0.550 STANDARD DEVIATION: 0.036 REL. ST. DEVIATION (%): 6.627</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>24</td><td>1.260</td><td>UNUSED</td><td>114</td><td>0.550</td></tr> <tr><td>40</td><td>0.870</td><td>UNUSED</td><td>118</td><td>0.550</td></tr> <tr><td>112</td><td>0.610</td><td></td><td>135</td><td>0.550</td></tr> <tr><td>22</td><td>0.600</td><td></td><td>121</td><td>0.549</td></tr> <tr><td>11</td><td>0.588</td><td></td><td>26</td><td>0.548</td></tr> <tr><td>13</td><td>0.588</td><td></td><td>10</td><td>0.547</td></tr> <tr><td>133</td><td>0.588</td><td></td><td>30</td><td>0.547</td></tr> <tr><td>39</td><td>0.585</td><td></td><td>6</td><td>0.546</td></tr> <tr><td>4</td><td>0.580</td><td></td><td>111</td><td>0.544</td></tr> <tr><td>113</td><td>0.580</td><td></td><td>36</td><td>0.542</td></tr> <tr><td>17</td><td>0.576</td><td></td><td>15</td><td>0.540</td></tr> <tr><td>19</td><td>0.574</td><td></td><td>126</td><td>0.540</td></tr> <tr><td>35</td><td>0.571</td><td></td><td>134</td><td>0.540</td></tr> <tr><td>130</td><td>0.570</td><td></td><td>31</td><td>0.537</td></tr> <tr><td>1</td><td>0.560</td><td></td><td>7</td><td>0.534</td></tr> <tr><td>5</td><td>0.560</td><td></td><td>16</td><td>0.534</td></tr> <tr><td>12</td><td>0.560</td><td></td><td>3</td><td>0.531</td></tr> <tr><td>20</td><td>0.560</td><td></td><td>117</td><td>0.531</td></tr> <tr><td>27</td><td>0.557</td><td></td><td>115</td><td>0.530</td></tr> <tr><td>104</td><td>0.557</td><td></td><td>119</td><td>0.530</td></tr> <tr><td>14</td><td>0.556</td><td></td><td>136</td><td>0.526</td></tr> <tr><td>8</td><td>0.555</td><td></td><td>131</td><td>0.512</td></tr> <tr><td>34</td><td>0.555</td><td></td><td>109</td><td>0.510</td></tr> <tr><td>23</td><td>0.554</td><td></td><td>124</td><td>0.500</td></tr> <tr><td>33</td><td>0.554</td><td></td><td>105</td><td>0.496</td></tr> <tr><td>21</td><td>0.552</td><td></td><td>116</td><td>0.419</td></tr> <tr><td>107</td><td>0.552</td><td></td><td>38</td><td>0.400</td></tr> </tbody> </table> <p>UNUSED: DATA UNUSED IN RUN 2</p>	24	1.260	UNUSED	114	0.550	40	0.870	UNUSED	118	0.550	112	0.610		135	0.550	22	0.600		121	0.549	11	0.588		26	0.548	13	0.588		10	0.547	133	0.588		30	0.547	39	0.585		6	0.546	4	0.580		111	0.544	113	0.580		36	0.542	17	0.576		15	0.540	19	0.574		126	0.540	35	0.571		134	0.540	130	0.570		31	0.537	1	0.560		7	0.534	5	0.560		16	0.534	12	0.560		3	0.531	20	0.560		117	0.531	27	0.557		115	0.530	104	0.557		119	0.530	14	0.556		136	0.526	8	0.555		131	0.512	34	0.555		109	0.510	23	0.554		124	0.500	33	0.554		105	0.496	21	0.552		116	0.419	107	0.552		38	0.400
24	1.750	UNUSED	21	0.756																																																																																																																																																																																																																																																																											
40	1.150	UNUSED	10	0.754																																																																																																																																																																																																																																																																											
11	0.841		126	0.750																																																																																																																																																																																																																																																																											
112	0.820		36	0.749																																																																																																																																																																																																																																																																											
118	0.800		134	0.749																																																																																																																																																																																																																																																																											
19	0.793		22	0.748																																																																																																																																																																																																																																																																											
17	0.786		6	0.747																																																																																																																																																																																																																																																																											
39	0.782		31	0.747																																																																																																																																																																																																																																																																											
113	0.780		26	0.746																																																																																																																																																																																																																																																																											
5	0.772		13	0.743																																																																																																																																																																																																																																																																											
1	0.770		135	0.740																																																																																																																																																																																																																																																																											
133	0.769		111	0.736																																																																																																																																																																																																																																																																											
20	0.768		16	0.735																																																																																																																																																																																																																																																																											
107	0.768		3	0.734																																																																																																																																																																																																																																																																											
4	0.764		7	0.734																																																																																																																																																																																																																																																																											
8	0.762		119	0.730																																																																																																																																																																																																																																																																											
35	0.762		117	0.725																																																																																																																																																																																																																																																																											
27	0.761		121	0.721																																																																																																																																																																																																																																																																											
34	0.761		131	0.721																																																																																																																																																																																																																																																																											
12	0.760		15	0.720																																																																																																																																																																																																																																																																											
104	0.760		109	0.710																																																																																																																																																																																																																																																																											
114	0.760		115	0.700																																																																																																																																																																																																																																																																											
130	0.760		124	0.700																																																																																																																																																																																																																																																																											
23	0.759		136	0.693																																																																																																																																																																																																																																																																											
14	0.758		105	0.675																																																																																																																																																																																																																																																																											
33	0.758		116	0.606																																																																																																																																																																																																																																																																											
30	0.757		38	0.590																																																																																																																																																																																																																																																																											
24	1.260	UNUSED	114	0.550																																																																																																																																																																																																																																																																											
40	0.870	UNUSED	118	0.550																																																																																																																																																																																																																																																																											
112	0.610		135	0.550																																																																																																																																																																																																																																																																											
22	0.600		121	0.549																																																																																																																																																																																																																																																																											
11	0.588		26	0.548																																																																																																																																																																																																																																																																											
13	0.588		10	0.547																																																																																																																																																																																																																																																																											
133	0.588		30	0.547																																																																																																																																																																																																																																																																											
39	0.585		6	0.546																																																																																																																																																																																																																																																																											
4	0.580		111	0.544																																																																																																																																																																																																																																																																											
113	0.580		36	0.542																																																																																																																																																																																																																																																																											
17	0.576		15	0.540																																																																																																																																																																																																																																																																											
19	0.574		126	0.540																																																																																																																																																																																																																																																																											
35	0.571		134	0.540																																																																																																																																																																																																																																																																											
130	0.570		31	0.537																																																																																																																																																																																																																																																																											
1	0.560		7	0.534																																																																																																																																																																																																																																																																											
5	0.560		16	0.534																																																																																																																																																																																																																																																																											
12	0.560		3	0.531																																																																																																																																																																																																																																																																											
20	0.560		117	0.531																																																																																																																																																																																																																																																																											
27	0.557		115	0.530																																																																																																																																																																																																																																																																											
104	0.557		119	0.530																																																																																																																																																																																																																																																																											
14	0.556		136	0.526																																																																																																																																																																																																																																																																											
8	0.555		131	0.512																																																																																																																																																																																																																																																																											
34	0.555		109	0.510																																																																																																																																																																																																																																																																											
23	0.554		124	0.500																																																																																																																																																																																																																																																																											
33	0.554		105	0.496																																																																																																																																																																																																																																																																											
21	0.552		116	0.419																																																																																																																																																																																																																																																																											
107	0.552		38	0.400																																																																																																																																																																																																																																																																											

Table 20: Analytical results for ammonium in precipitations sample.

<p>AMMONIUM SAMPLE NO.: G1 THEORETICAL VALUE 0.481 UNIT: µg N/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 56 ARITHMETIC MEAN VALUE: 0.466 MEDIAN: 0.473 STANDARD DEVIATION: 0.065 REL. ST. DEVIATION (%): 14.044</p> <p>RUN 2: NUMBER OF LABORATORIES: 52 ARITHMETIC MEAN VALUE: 0.469 MEDIAN: 0.473 STANDARD DEVIATION: 0.031 REL. ST. DEVIATION (%): 6.526</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>116</td><td>0.635</td><td>UNUSED</td><td>16</td><td>0.471</td></tr> <tr><td>118</td><td>0.622</td><td>UNUSED</td><td>5</td><td>0.470</td></tr> <tr><td>6</td><td>0.540</td><td></td><td>15</td><td>0.470</td></tr> <tr><td>130</td><td>0.530</td><td></td><td>135</td><td>0.470</td></tr> <tr><td>39</td><td>0.521</td><td></td><td>23</td><td>0.469</td></tr> <tr><td>112</td><td>0.510</td><td></td><td>22</td><td>0.468</td></tr> <tr><td>136</td><td>0.506</td><td></td><td>133</td><td>0.467</td></tr> <tr><td>105</td><td>0.501</td><td></td><td>10</td><td>0.466</td></tr> <tr><td>113</td><td>0.500</td><td></td><td>7</td><td>0.464</td></tr> <tr><td>33</td><td>0.493</td><td></td><td>14</td><td>0.464</td></tr> <tr><td>104</td><td>0.491</td><td></td><td>13</td><td>0.462</td></tr> <tr><td>34</td><td>0.490</td><td></td><td>38</td><td>0.460</td></tr> <tr><td>21</td><td>0.489</td><td></td><td>8</td><td>0.459</td></tr> <tr><td>106</td><td>0.483</td><td></td><td>31</td><td>0.458</td></tr> <tr><td>30</td><td>0.481</td><td></td><td>121</td><td>0.451</td></tr> <tr><td>117</td><td>0.481</td><td></td><td>126</td><td>0.451</td></tr> <tr><td>20</td><td>0.480</td><td></td><td>27</td><td>0.450</td></tr> <tr><td>109</td><td>0.480</td><td></td><td>19</td><td>0.442</td></tr> <tr><td>114</td><td>0.480</td><td></td><td>115</td><td>0.440</td></tr> <tr><td>26</td><td>0.479</td><td></td><td>107</td><td>0.436</td></tr> <tr><td>4</td><td>0.478</td><td></td><td>3</td><td>0.431</td></tr> <tr><td>131</td><td>0.478</td><td></td><td>134</td><td>0.430</td></tr> <tr><td>111</td><td>0.477</td><td></td><td>17</td><td>0.422</td></tr> <tr><td>1</td><td>0.476</td><td></td><td>119</td><td>0.400</td></tr> <tr><td>36</td><td>0.476</td><td></td><td>124</td><td>0.400</td></tr> <tr><td>11</td><td>0.475</td><td></td><td>24</td><td>0.373</td></tr> <tr><td>35</td><td>0.475</td><td></td><td>12</td><td>0.320</td></tr> <tr><td>40</td><td>0.475</td><td></td><td>18</td><td>0.130</td></tr> </tbody> </table> <p>UNUSED: DATA UNUSED IN RUN 2</p>	116	0.635	UNUSED	16	0.471	118	0.622	UNUSED	5	0.470	6	0.540		15	0.470	130	0.530		135	0.470	39	0.521		23	0.469	112	0.510		22	0.468	136	0.506		133	0.467	105	0.501		10	0.466	113	0.500		7	0.464	33	0.493		14	0.464	104	0.491		13	0.462	34	0.490		38	0.460	21	0.489		8	0.459	106	0.483		31	0.458	30	0.481		121	0.451	117	0.481		126	0.451	20	0.480		27	0.450	109	0.480		19	0.442	114	0.480		115	0.440	26	0.479		107	0.436	4	0.478		3	0.431	131	0.478		134	0.430	111	0.477		17	0.422	1	0.476		119	0.400	36	0.476		124	0.400	11	0.475		24	0.373	35	0.475		12	0.320	40	0.475		18	0.130	<p>AMMONIUM SAMPLE NO.: G2 THEORETICAL VALUE 0.321 UNIT: µg N/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 56 ARITHMETIC MEAN VALUE: 0.316 MEDIAN: 0.317 STANDARD DEVIATION: 0.042 REL. ST. DEVIATION (%): 13.320</p> <p>RUN 2: NUMBER OF LABORATORIES: 55 ARITHMETIC MEAN VALUE: 0.316 MEDIAN: 0.317 STANDARD DEVIATION: 0.043 REL. ST. DEVIATION (%): 13.446</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>116</td><td>0.422</td><td>UNUSED</td><td>26</td><td>0.317</td></tr> <tr><td>118</td><td>0.414</td><td>UNUSED</td><td>36</td><td>0.317</td></tr> <tr><td>124</td><td>0.400</td><td></td><td>1</td><td>0.316</td></tr> <tr><td>39</td><td>0.368</td><td></td><td>5</td><td>0.315</td></tr> <tr><td>6</td><td>0.360</td><td></td><td>7</td><td>0.313</td></tr> <tr><td>130</td><td>0.360</td><td></td><td>11</td><td>0.313</td></tr> <tr><td>112</td><td>0.350</td><td></td><td>22</td><td>0.313</td></tr> <tr><td>35</td><td>0.349</td><td></td><td>23</td><td>0.313</td></tr> <tr><td>34</td><td>0.340</td><td></td><td>15</td><td>0.310</td></tr> <tr><td>21</td><td>0.335</td><td></td><td>117</td><td>0.310</td></tr> <tr><td>40</td><td>0.335</td><td></td><td>31</td><td>0.307</td></tr> <tr><td>131</td><td>0.332</td><td></td><td>136</td><td>0.307</td></tr> <tr><td>113</td><td>0.330</td><td></td><td>10</td><td>0.306</td></tr> <tr><td>104</td><td>0.328</td><td></td><td>8</td><td>0.305</td></tr> <tr><td>16</td><td>0.326</td><td></td><td>14</td><td>0.304</td></tr> <tr><td>30</td><td>0.326</td><td></td><td>27</td><td>0.300</td></tr> <tr><td>33</td><td>0.325</td><td></td><td>126</td><td>0.300</td></tr> <tr><td>4</td><td>0.322</td><td></td><td>107</td><td>0.298</td></tr> <tr><td>105</td><td>0.322</td><td></td><td>121</td><td>0.295</td></tr> <tr><td>20</td><td>0.320</td><td></td><td>12</td><td>0.290</td></tr> <tr><td>38</td><td>0.320</td><td></td><td>17</td><td>0.290</td></tr> <tr><td>109</td><td>0.320</td><td></td><td>3</td><td>0.287</td></tr> <tr><td>114</td><td>0.320</td><td></td><td>19</td><td>0.284</td></tr> <tr><td>135</td><td>0.320</td><td></td><td>134</td><td>0.284</td></tr> <tr><td>133</td><td>0.319</td><td></td><td>115</td><td>0.280</td></tr> <tr><td>111</td><td>0.318</td><td></td><td>119</td><td>0.260</td></tr> <tr><td>106</td><td>0.317</td><td></td><td>24</td><td>0.250</td></tr> <tr><td>13</td><td>0.317</td><td></td><td>18</td><td>0.107</td></tr> </tbody> </table> <p>UNUSED: DATA UNUSED IN RUN 2</p>	116	0.422	UNUSED	26	0.317	118	0.414	UNUSED	36	0.317	124	0.400		1	0.316	39	0.368		5	0.315	6	0.360		7	0.313	130	0.360		11	0.313	112	0.350		22	0.313	35	0.349		23	0.313	34	0.340		15	0.310	21	0.335		117	0.310	40	0.335		31	0.307	131	0.332		136	0.307	113	0.330		10	0.306	104	0.328		8	0.305	16	0.326		14	0.304	30	0.326		27	0.300	33	0.325		126	0.300	4	0.322		107	0.298	105	0.322		121	0.295	20	0.320		12	0.290	38	0.320		17	0.290	109	0.320		3	0.287	114	0.320		19	0.284	135	0.320		134	0.284	133	0.319		115	0.280	111	0.318		119	0.260	106	0.317		24	0.250	13	0.317		18	0.107
116	0.635	UNUSED	16	0.471																																																																																																																																																																																																																																																																																					
118	0.622	UNUSED	5	0.470																																																																																																																																																																																																																																																																																					
6	0.540		15	0.470																																																																																																																																																																																																																																																																																					
130	0.530		135	0.470																																																																																																																																																																																																																																																																																					
39	0.521		23	0.469																																																																																																																																																																																																																																																																																					
112	0.510		22	0.468																																																																																																																																																																																																																																																																																					
136	0.506		133	0.467																																																																																																																																																																																																																																																																																					
105	0.501		10	0.466																																																																																																																																																																																																																																																																																					
113	0.500		7	0.464																																																																																																																																																																																																																																																																																					
33	0.493		14	0.464																																																																																																																																																																																																																																																																																					
104	0.491		13	0.462																																																																																																																																																																																																																																																																																					
34	0.490		38	0.460																																																																																																																																																																																																																																																																																					
21	0.489		8	0.459																																																																																																																																																																																																																																																																																					
106	0.483		31	0.458																																																																																																																																																																																																																																																																																					
30	0.481		121	0.451																																																																																																																																																																																																																																																																																					
117	0.481		126	0.451																																																																																																																																																																																																																																																																																					
20	0.480		27	0.450																																																																																																																																																																																																																																																																																					
109	0.480		19	0.442																																																																																																																																																																																																																																																																																					
114	0.480		115	0.440																																																																																																																																																																																																																																																																																					
26	0.479		107	0.436																																																																																																																																																																																																																																																																																					
4	0.478		3	0.431																																																																																																																																																																																																																																																																																					
131	0.478		134	0.430																																																																																																																																																																																																																																																																																					
111	0.477		17	0.422																																																																																																																																																																																																																																																																																					
1	0.476		119	0.400																																																																																																																																																																																																																																																																																					
36	0.476		124	0.400																																																																																																																																																																																																																																																																																					
11	0.475		24	0.373																																																																																																																																																																																																																																																																																					
35	0.475		12	0.320																																																																																																																																																																																																																																																																																					
40	0.475		18	0.130																																																																																																																																																																																																																																																																																					
116	0.422	UNUSED	26	0.317																																																																																																																																																																																																																																																																																					
118	0.414	UNUSED	36	0.317																																																																																																																																																																																																																																																																																					
124	0.400		1	0.316																																																																																																																																																																																																																																																																																					
39	0.368		5	0.315																																																																																																																																																																																																																																																																																					
6	0.360		7	0.313																																																																																																																																																																																																																																																																																					
130	0.360		11	0.313																																																																																																																																																																																																																																																																																					
112	0.350		22	0.313																																																																																																																																																																																																																																																																																					
35	0.349		23	0.313																																																																																																																																																																																																																																																																																					
34	0.340		15	0.310																																																																																																																																																																																																																																																																																					
21	0.335		117	0.310																																																																																																																																																																																																																																																																																					
40	0.335		31	0.307																																																																																																																																																																																																																																																																																					
131	0.332		136	0.307																																																																																																																																																																																																																																																																																					
113	0.330		10	0.306																																																																																																																																																																																																																																																																																					
104	0.328		8	0.305																																																																																																																																																																																																																																																																																					
16	0.326		14	0.304																																																																																																																																																																																																																																																																																					
30	0.326		27	0.300																																																																																																																																																																																																																																																																																					
33	0.325		126	0.300																																																																																																																																																																																																																																																																																					
4	0.322		107	0.298																																																																																																																																																																																																																																																																																					
105	0.322		121	0.295																																																																																																																																																																																																																																																																																					
20	0.320		12	0.290																																																																																																																																																																																																																																																																																					
38	0.320		17	0.290																																																																																																																																																																																																																																																																																					
109	0.320		3	0.287																																																																																																																																																																																																																																																																																					
114	0.320		19	0.284																																																																																																																																																																																																																																																																																					
135	0.320		134	0.284																																																																																																																																																																																																																																																																																					
133	0.319		115	0.280																																																																																																																																																																																																																																																																																					
111	0.318		119	0.260																																																																																																																																																																																																																																																																																					
106	0.317		24	0.250																																																																																																																																																																																																																																																																																					
13	0.317		18	0.107																																																																																																																																																																																																																																																																																					
<p>AMMONIUM SAMPLE NO.: G3 THEORETICAL VALUE 0.561 UNIT: µg N/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 56 ARITHMETIC MEAN VALUE: 0.550 MEDIAN: 0.556 STANDARD DEVIATION: 0.065 REL. ST. DEVIATION (%): 11.742</p> <p>RUN 2: NUMBER OF LABORATORIES: 53 ARITHMETIC MEAN VALUE: 0.550 MEDIAN: 0.555 STANDARD DEVIATION: 0.029 REL. ST. DEVIATION (%): 5.302</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>116</td><td>0.726</td><td>UNUSED</td><td>1</td><td>0.555</td></tr> <tr><td>118</td><td>0.723</td><td>UNUSED</td><td>35</td><td>0.555</td></tr> <tr><td>130</td><td>0.620</td><td></td><td>5</td><td>0.553</td></tr> <tr><td>3</td><td>0.598</td><td></td><td>15</td><td>0.550</td></tr> <tr><td>6</td><td>0.590</td><td></td><td>38</td><td>0.550</td></tr> <tr><td>112</td><td>0.590</td><td></td><td>109</td><td>0.550</td></tr> <tr><td>33</td><td>0.588</td><td></td><td>22</td><td>0.549</td></tr> <tr><td>13</td><td>0.583</td><td></td><td>117</td><td>0.547</td></tr> <tr><td>105</td><td>0.582</td><td></td><td>7</td><td>0.546</td></tr> <tr><td>104</td><td>0.578</td><td></td><td>10</td><td>0.546</td></tr> <tr><td>16</td><td>0.577</td><td></td><td>14</td><td>0.545</td></tr> <tr><td>34</td><td>0.573</td><td></td><td>31</td><td>0.544</td></tr> <tr><td>11</td><td>0.571</td><td></td><td>8</td><td>0.540</td></tr> <tr><td>21</td><td>0.570</td><td></td><td>40</td><td>0.538</td></tr> <tr><td>113</td><td>0.570</td><td></td><td>121</td><td>0.532</td></tr> <tr><td>30</td><td>0.567</td><td></td><td>19</td><td>0.526</td></tr> <tr><td>20</td><td>0.566</td><td></td><td>3</td><td>0.523</td></tr> <tr><td>136</td><td>0.566</td><td></td><td>126</td><td>0.521</td></tr> <tr><td>36</td><td>0.565</td><td></td><td>27</td><td>0.520</td></tr> <tr><td>106</td><td>0.565</td><td></td><td>107</td><td>0.517</td></tr> <tr><td>4</td><td>0.560</td><td></td><td>134</td><td>0.510</td></tr> <tr><td>114</td><td>0.560</td><td></td><td>17</td><td>0.505</td></tr> <tr><td>135</td><td>0.560</td><td></td><td>12</td><td>0.500</td></tr> <tr><td>131</td><td>0.559</td><td></td><td>115</td><td>0.500</td></tr> <tr><td>26</td><td>0.558</td><td></td><td>124</td><td>0.500</td></tr> <tr><td>23</td><td>0.557</td><td></td><td>119</td><td>0.490</td></tr> <tr><td>111</td><td>0.557</td><td></td><td>24</td><td>0.475</td></tr> <tr><td>133</td><td>0.556</td><td></td><td>18</td><td>0.197</td></tr> </tbody> </table> <p>UNUSED: DATA UNUSED IN RUN 2</p>	116	0.726	UNUSED	1	0.555	118	0.723	UNUSED	35	0.555	130	0.620		5	0.553	3	0.598		15	0.550	6	0.590		38	0.550	112	0.590		109	0.550	33	0.588		22	0.549	13	0.583		117	0.547	105	0.582		7	0.546	104	0.578		10	0.546	16	0.577		14	0.545	34	0.573		31	0.544	11	0.571		8	0.540	21	0.570		40	0.538	113	0.570		121	0.532	30	0.567		19	0.526	20	0.566		3	0.523	136	0.566		126	0.521	36	0.565		27	0.520	106	0.565		107	0.517	4	0.560		134	0.510	114	0.560		17	0.505	135	0.560		12	0.500	131	0.559		115	0.500	26	0.558		124	0.500	23	0.557		119	0.490	111	0.557		24	0.475	133	0.556		18	0.197	<p>AMMONIUM SAMPLE NO.: G4 THEORETICAL VALUE 0.281 UNIT: µg N/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 56 ARITHMETIC MEAN VALUE: 0.278 MEDIAN: 0.274 STANDARD DEVIATION: 0.052 REL. ST. DEVIATION (%): 18.608</p> <p>RUN 2: NUMBER OF LABORATORIES: 53 ARITHMETIC MEAN VALUE: 0.274 MEDIAN: 0.274 STANDARD DEVIATION: 0.024 REL. ST. DEVIATION (%): 8.893</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>12</td><td>0.520</td><td>UNUSED</td><td>111</td><td>0.274</td></tr> <tr><td>116</td><td>0.425</td><td>UNUSED</td><td>1</td><td>0.273</td></tr> <tr><td>118</td><td>0.359</td><td></td><td>26</td><td>0.272</td></tr> <tr><td>40</td><td>0.311</td><td></td><td>7</td><td>0.271</td></tr> <tr><td>16</td><td>0.310</td><td></td><td>22</td><td>0.271</td></tr> <tr><td>112</td><td>0.310</td><td></td><td>30</td><td>0.271</td></tr> <tr><td>39</td><td>0.303</td><td></td><td>15</td><td>0.270</td></tr> <tr><td>109</td><td>0.300</td><td></td><td>135</td><td>0.270</td></tr> <tr><td>124</td><td>0.300</td><td></td><td>136</td><td>0.270</td></tr> <tr><td>31</td><td>0.292</td><td></td><td>8</td><td>0.268</td></tr> <tr><td>131</td><td>0.292</td><td></td><td>14</td><td>0.268</td></tr> <tr><td>6</td><td>0.290</td><td></td><td>117</td><td>0.268</td></tr> <tr><td>104</td><td>0.289</td><td></td><td>10</td><td>0.267</td></tr> <tr><td>21</td><td>0.288</td><td></td><td>126</td><td>0.266</td></tr> <tr><td>34</td><td>0.287</td><td></td><td>27</td><td>0.260</td></tr> <tr><td>13</td><td>0.286</td><td></td><td>38</td><td>0.260</td></tr> <tr><td>35</td><td>0.286</td><td></td><td>107</td><td>0.256</td></tr> <tr><td>36</td><td>0.284</td><td></td><td>17</td><td>0.252</td></tr> <tr><td>11</td><td>0.283</td><td></td><td>121</td><td>0.248</td></tr> <tr><td>105</td><td>0.283</td><td></td><td>19</td><td>0.247</td></tr> <tr><td>33</td><td>0.282</td><td></td><td>133</td><td>0.245</td></tr> <tr><td>5</td><td>0.281</td><td></td><td>3</td><td>0.241</td></tr> <tr><td>20</td><td>0.281</td><td></td><td>115</td><td>0.240</td></tr> <tr><td>113</td><td>0.280</td><td></td><td>119</td><td>0.230</td></tr> <tr><td>114</td><td>0.280</td><td></td><td>130</td><td>0.230</td></tr> <tr><td>23</td><td>0.276</td><td></td><td>134</td><td>0.225</td></tr> <tr><td>106</td><td>0.276</td><td></td><td>24</td><td>0.220</td></tr> <tr><td>4</td><td>0.274</td><td></td><td>18</td><td>0.091</td></tr> </tbody> </table> <p>UNUSED: DATA UNUSED IN RUN 2</p>	12	0.520	UNUSED	111	0.274	116	0.425	UNUSED	1	0.273	118	0.359		26	0.272	40	0.311		7	0.271	16	0.310		22	0.271	112	0.310		30	0.271	39	0.303		15	0.270	109	0.300		135	0.270	124	0.300		136	0.270	31	0.292		8	0.268	131	0.292		14	0.268	6	0.290		117	0.268	104	0.289		10	0.267	21	0.288		126	0.266	34	0.287		27	0.260	13	0.286		38	0.260	35	0.286		107	0.256	36	0.284		17	0.252	11	0.283		121	0.248	105	0.283		19	0.247	33	0.282		133	0.245	5	0.281		3	0.241	20	0.281		115	0.240	113	0.280		119	0.230	114	0.280		130	0.230	23	0.276		134	0.225	106	0.276		24	0.220	4	0.274		18	0.091
116	0.726	UNUSED	1	0.555																																																																																																																																																																																																																																																																																					
118	0.723	UNUSED	35	0.555																																																																																																																																																																																																																																																																																					
130	0.620		5	0.553																																																																																																																																																																																																																																																																																					
3	0.598		15	0.550																																																																																																																																																																																																																																																																																					
6	0.590		38	0.550																																																																																																																																																																																																																																																																																					
112	0.590		109	0.550																																																																																																																																																																																																																																																																																					
33	0.588		22	0.549																																																																																																																																																																																																																																																																																					
13	0.583		117	0.547																																																																																																																																																																																																																																																																																					
105	0.582		7	0.546																																																																																																																																																																																																																																																																																					
104	0.578		10	0.546																																																																																																																																																																																																																																																																																					
16	0.577		14	0.545																																																																																																																																																																																																																																																																																					
34	0.573		31	0.544																																																																																																																																																																																																																																																																																					
11	0.571		8	0.540																																																																																																																																																																																																																																																																																					
21	0.570		40	0.538																																																																																																																																																																																																																																																																																					
113	0.570		121	0.532																																																																																																																																																																																																																																																																																					
30	0.567		19	0.526																																																																																																																																																																																																																																																																																					
20	0.566		3	0.523																																																																																																																																																																																																																																																																																					
136	0.566		126	0.521																																																																																																																																																																																																																																																																																					
36	0.565		27	0.520																																																																																																																																																																																																																																																																																					
106	0.565		107	0.517																																																																																																																																																																																																																																																																																					
4	0.560		134	0.510																																																																																																																																																																																																																																																																																					
114	0.560		17	0.505																																																																																																																																																																																																																																																																																					
135	0.560		12	0.500																																																																																																																																																																																																																																																																																					
131	0.559		115	0.500																																																																																																																																																																																																																																																																																					
26	0.558		124	0.500																																																																																																																																																																																																																																																																																					
23	0.557		119	0.490																																																																																																																																																																																																																																																																																					
111	0.557		24	0.475																																																																																																																																																																																																																																																																																					
133	0.556		18	0.197																																																																																																																																																																																																																																																																																					
12	0.520	UNUSED	111	0.274																																																																																																																																																																																																																																																																																					
116	0.425	UNUSED	1	0.273																																																																																																																																																																																																																																																																																					
118	0.359		26	0.272																																																																																																																																																																																																																																																																																					
40	0.311		7	0.271																																																																																																																																																																																																																																																																																					
16	0.310		22	0.271																																																																																																																																																																																																																																																																																					
112	0.310		30	0.271																																																																																																																																																																																																																																																																																					
39	0.303		15	0.270																																																																																																																																																																																																																																																																																					
109	0.300		135	0.270																																																																																																																																																																																																																																																																																					
124	0.300		136	0.270																																																																																																																																																																																																																																																																																					
31	0.292		8	0.268																																																																																																																																																																																																																																																																																					
131	0.292		14	0.268																																																																																																																																																																																																																																																																																					
6	0.290		117	0.268																																																																																																																																																																																																																																																																																					
104	0.289		10	0.267																																																																																																																																																																																																																																																																																					
21	0.288		126	0.266																																																																																																																																																																																																																																																																																					
34	0.287		27	0.260																																																																																																																																																																																																																																																																																					
13	0.286		38	0.260																																																																																																																																																																																																																																																																																					
35	0.286		107	0.256																																																																																																																																																																																																																																																																																					
36	0.284		17	0.252																																																																																																																																																																																																																																																																																					
11	0.283		121	0.248																																																																																																																																																																																																																																																																																					
105	0.283		19	0.247																																																																																																																																																																																																																																																																																					
33	0.282		133	0.245																																																																																																																																																																																																																																																																																					
5	0.281		3	0.241																																																																																																																																																																																																																																																																																					
20	0.281		115	0.240																																																																																																																																																																																																																																																																																					
113	0.280		119	0.230																																																																																																																																																																																																																																																																																					
114	0.280		130	0.230																																																																																																																																																																																																																																																																																					
23	0.276		134	0.225																																																																																																																																																																																																																																																																																					
106	0.276		24	0.220																																																																																																																																																																																																																																																																																					
4	0.274		18	0.091																																																																																																																																																																																																																																																																																					

Table 21: Analytical results for pH in precipitations samples.

<p>PH SAMPLE NO.: G1 THEORETICAL VALUE 4.125 UNIT: PH UNITS</p> <p>RUN 1: NUMBER OF LABORATORIES: 54 ARITHMETIC MEAN VALUE: 4.175 MEDIAN: 4.180 STANDARD DEVIATION: 0.096 REL. ST. DEVIATION (%): 2.289</p> <p>RUN 2: NUMBER OF LABORATORIES: 52 ARITHMETIC MEAN VALUE: 4.179 MEDIAN: 4.180 STANDARD DEVIATION: 0.066 REL. ST. DEVIATION (%): 1.591</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>115</td><td>4.420</td><td>UNUSED</td><td>33</td><td>4.180</td></tr> <tr><td>117</td><td>4.350</td><td></td><td>106</td><td>4.180</td></tr> <tr><td>113</td><td>4.340</td><td></td><td>133</td><td>4.180</td></tr> <tr><td>19</td><td>4.320</td><td></td><td>31</td><td>4.172</td></tr> <tr><td>10</td><td>4.310</td><td></td><td>135</td><td>4.170</td></tr> <tr><td>116</td><td>4.270</td><td></td><td>1</td><td>4.160</td></tr> <tr><td>109</td><td>4.260</td><td></td><td>6</td><td>4.160</td></tr> <tr><td>17</td><td>4.240</td><td></td><td>26</td><td>4.160</td></tr> <tr><td>14</td><td>4.230</td><td></td><td>39</td><td>4.160</td></tr> <tr><td>111</td><td>4.230</td><td></td><td>131</td><td>4.160</td></tr> <tr><td>22</td><td>4.210</td><td></td><td>11</td><td>4.150</td></tr> <tr><td>36</td><td>4.210</td><td></td><td>16</td><td>4.150</td></tr> <tr><td>126</td><td>4.210</td><td></td><td>38</td><td>4.150</td></tr> <tr><td>3</td><td>4.201</td><td></td><td>105</td><td>4.150</td></tr> <tr><td>35</td><td>4.200</td><td></td><td>136</td><td>4.150</td></tr> <tr><td>124</td><td>4.200</td><td></td><td>5</td><td>4.140</td></tr> <tr><td>7</td><td>4.190</td><td></td><td>12</td><td>4.140</td></tr> <tr><td>13</td><td>4.190</td><td></td><td>30</td><td>4.140</td></tr> <tr><td>15</td><td>4.190</td><td></td><td>119</td><td>4.120</td></tr> <tr><td>104</td><td>4.190</td><td></td><td>130</td><td>4.120</td></tr> <tr><td>112</td><td>4.190</td><td></td><td>20</td><td>4.110</td></tr> <tr><td>114</td><td>4.190</td><td></td><td>23</td><td>4.090</td></tr> <tr><td>118</td><td>4.190</td><td></td><td>107</td><td>4.070</td></tr> <tr><td>34</td><td>4.182</td><td></td><td>24</td><td>4.050</td></tr> <tr><td>4</td><td>4.180</td><td></td><td>121</td><td>4.050</td></tr> <tr><td>21</td><td>4.180</td><td></td><td>18</td><td>4.010</td></tr> <tr><td>27</td><td>4.180</td><td></td><td>40</td><td>3.730</td><td>UNUSED</td></tr> </tbody> </table> <p>UNUSED: DATA UNUSED IN RUN 2</p>	115	4.420	UNUSED	33	4.180	117	4.350		106	4.180	113	4.340		133	4.180	19	4.320		31	4.172	10	4.310		135	4.170	116	4.270		1	4.160	109	4.260		6	4.160	17	4.240		26	4.160	14	4.230		39	4.160	111	4.230		131	4.160	22	4.210		11	4.150	36	4.210		16	4.150	126	4.210		38	4.150	3	4.201		105	4.150	35	4.200		136	4.150	124	4.200		5	4.140	7	4.190		12	4.140	13	4.190		30	4.140	15	4.190		119	4.120	104	4.190		130	4.120	112	4.190		20	4.110	114	4.190		23	4.090	118	4.190		107	4.070	34	4.182		24	4.050	4	4.180		121	4.050	21	4.180		18	4.010	27	4.180		40	3.730	UNUSED	<p>PH SAMPLE NO.: G2 THEORETICAL VALUE 4.523 UNIT: PH UNITS</p> <p>RUN 1: NUMBER OF LABORATORIES: 54 ARITHMETIC MEAN VALUE: 4.558 MEDIAN: 4.559 STANDARD DEVIATION: 0.298 REL. ST. DEVIATION (%): 6.531</p> <p>RUN 2: NUMBER OF LABORATORIES: 51 ARITHMETIC MEAN VALUE: 4.570 MEDIAN: 4.560 STANDARD DEVIATION: 0.097 REL. ST. DEVIATION (%): 2.128</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>113</td><td>5.960</td><td>UNUSED</td><td>3</td><td>4.557</td></tr> <tr><td>36</td><td>4.950</td><td></td><td>1</td><td>4.550</td></tr> <tr><td>19</td><td>4.760</td><td></td><td>104</td><td>4.550</td></tr> <tr><td>115</td><td>4.750</td><td></td><td>131</td><td>4.550</td></tr> <tr><td>133</td><td>4.730</td><td></td><td>136</td><td>4.550</td></tr> <tr><td>116</td><td>4.690</td><td></td><td>5</td><td>4.540</td></tr> <tr><td>112</td><td>4.670</td><td></td><td>11</td><td>4.540</td></tr> <tr><td>10</td><td>4.660</td><td></td><td>26</td><td>4.540</td></tr> <tr><td>14</td><td>4.650</td><td></td><td>39</td><td>4.540</td></tr> <tr><td>35</td><td>4.640</td><td></td><td>105</td><td>4.540</td></tr> <tr><td>17</td><td>4.630</td><td></td><td>12</td><td>4.530</td></tr> <tr><td>111</td><td>4.630</td><td></td><td>30</td><td>4.530</td></tr> <tr><td>22</td><td>4.610</td><td></td><td>114</td><td>4.520</td></tr> <tr><td>106</td><td>4.600</td><td></td><td>6</td><td>4.510</td></tr> <tr><td>124</td><td>4.600</td><td></td><td>16</td><td>4.510</td></tr> <tr><td>13</td><td>4.590</td><td></td><td>135</td><td>4.510</td></tr> <tr><td>15</td><td>4.590</td><td></td><td>20</td><td>4.500</td></tr> <tr><td>34</td><td>4.582</td><td></td><td>38</td><td>4.490</td></tr> <tr><td>7</td><td>4.580</td><td></td><td>119</td><td>4.490</td></tr> <tr><td>118</td><td>4.580</td><td></td><td>33</td><td>4.480</td></tr> <tr><td>126</td><td>4.580</td><td></td><td>24</td><td>4.460</td></tr> <tr><td>4</td><td>4.570</td><td></td><td>23</td><td>4.440</td></tr> <tr><td>21</td><td>4.570</td><td></td><td>107</td><td>4.430</td></tr> <tr><td>130</td><td>4.570</td><td></td><td>18</td><td>4.400</td></tr> <tr><td>27</td><td>4.560</td><td></td><td>117</td><td>4.340</td></tr> <tr><td>31</td><td>4.560</td><td></td><td>40</td><td>3.920</td><td>UNUSED</td></tr> <tr><td>109</td><td>4.560</td><td></td><td>121</td><td>3.200</td><td>UNUSED</td></tr> </tbody> </table> <p>UNUSED: DATA UNUSED IN RUN 2</p>	113	5.960	UNUSED	3	4.557	36	4.950		1	4.550	19	4.760		104	4.550	115	4.750		131	4.550	133	4.730		136	4.550	116	4.690		5	4.540	112	4.670		11	4.540	10	4.660		26	4.540	14	4.650		39	4.540	35	4.640		105	4.540	17	4.630		12	4.530	111	4.630		30	4.530	22	4.610		114	4.520	106	4.600		6	4.510	124	4.600		16	4.510	13	4.590		135	4.510	15	4.590		20	4.500	34	4.582		38	4.490	7	4.580		119	4.490	118	4.580		33	4.480	126	4.580		24	4.460	4	4.570		23	4.440	21	4.570		107	4.430	130	4.570		18	4.400	27	4.560		117	4.340	31	4.560		40	3.920	UNUSED	109	4.560		121	3.200	UNUSED	
115	4.420	UNUSED	33	4.180																																																																																																																																																																																																																																																																															
117	4.350		106	4.180																																																																																																																																																																																																																																																																															
113	4.340		133	4.180																																																																																																																																																																																																																																																																															
19	4.320		31	4.172																																																																																																																																																																																																																																																																															
10	4.310		135	4.170																																																																																																																																																																																																																																																																															
116	4.270		1	4.160																																																																																																																																																																																																																																																																															
109	4.260		6	4.160																																																																																																																																																																																																																																																																															
17	4.240		26	4.160																																																																																																																																																																																																																																																																															
14	4.230		39	4.160																																																																																																																																																																																																																																																																															
111	4.230		131	4.160																																																																																																																																																																																																																																																																															
22	4.210		11	4.150																																																																																																																																																																																																																																																																															
36	4.210		16	4.150																																																																																																																																																																																																																																																																															
126	4.210		38	4.150																																																																																																																																																																																																																																																																															
3	4.201		105	4.150																																																																																																																																																																																																																																																																															
35	4.200		136	4.150																																																																																																																																																																																																																																																																															
124	4.200		5	4.140																																																																																																																																																																																																																																																																															
7	4.190		12	4.140																																																																																																																																																																																																																																																																															
13	4.190		30	4.140																																																																																																																																																																																																																																																																															
15	4.190		119	4.120																																																																																																																																																																																																																																																																															
104	4.190		130	4.120																																																																																																																																																																																																																																																																															
112	4.190		20	4.110																																																																																																																																																																																																																																																																															
114	4.190		23	4.090																																																																																																																																																																																																																																																																															
118	4.190		107	4.070																																																																																																																																																																																																																																																																															
34	4.182		24	4.050																																																																																																																																																																																																																																																																															
4	4.180		121	4.050																																																																																																																																																																																																																																																																															
21	4.180		18	4.010																																																																																																																																																																																																																																																																															
27	4.180		40	3.730	UNUSED																																																																																																																																																																																																																																																																														
113	5.960	UNUSED	3	4.557																																																																																																																																																																																																																																																																															
36	4.950		1	4.550																																																																																																																																																																																																																																																																															
19	4.760		104	4.550																																																																																																																																																																																																																																																																															
115	4.750		131	4.550																																																																																																																																																																																																																																																																															
133	4.730		136	4.550																																																																																																																																																																																																																																																																															
116	4.690		5	4.540																																																																																																																																																																																																																																																																															
112	4.670		11	4.540																																																																																																																																																																																																																																																																															
10	4.660		26	4.540																																																																																																																																																																																																																																																																															
14	4.650		39	4.540																																																																																																																																																																																																																																																																															
35	4.640		105	4.540																																																																																																																																																																																																																																																																															
17	4.630		12	4.530																																																																																																																																																																																																																																																																															
111	4.630		30	4.530																																																																																																																																																																																																																																																																															
22	4.610		114	4.520																																																																																																																																																																																																																																																																															
106	4.600		6	4.510																																																																																																																																																																																																																																																																															
124	4.600		16	4.510																																																																																																																																																																																																																																																																															
13	4.590		135	4.510																																																																																																																																																																																																																																																																															
15	4.590		20	4.500																																																																																																																																																																																																																																																																															
34	4.582		38	4.490																																																																																																																																																																																																																																																																															
7	4.580		119	4.490																																																																																																																																																																																																																																																																															
118	4.580		33	4.480																																																																																																																																																																																																																																																																															
126	4.580		24	4.460																																																																																																																																																																																																																																																																															
4	4.570		23	4.440																																																																																																																																																																																																																																																																															
21	4.570		107	4.430																																																																																																																																																																																																																																																																															
130	4.570		18	4.400																																																																																																																																																																																																																																																																															
27	4.560		117	4.340																																																																																																																																																																																																																																																																															
31	4.560		40	3.920	UNUSED																																																																																																																																																																																																																																																																														
109	4.560		121	3.200	UNUSED																																																																																																																																																																																																																																																																														
<p>PH SAMPLE NO.: G3 THEORETICAL VALUE 4.456 UNIT: PH UNITS</p> <p>RUN 1: NUMBER OF LABORATORIES: 54 ARITHMETIC MEAN VALUE: 4.462 MEDIAN: 4.495 STANDARD DEVIATION: 0.261 REL. ST. DEVIATION (%): 5.844</p> <p>RUN 2: NUMBER OF LABORATORIES: 52 ARITHMETIC MEAN VALUE: 4.504 MEDIAN: 4.500 STANDARD DEVIATION: 0.101 REL. ST. DEVIATION (%): 2.241</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>113</td><td>4.880</td><td></td><td>1</td><td>4.490</td></tr> <tr><td>36</td><td>4.870</td><td></td><td>27</td><td>4.490</td></tr> <tr><td>19</td><td>4.700</td><td></td><td>34</td><td>4.489</td></tr> <tr><td>115</td><td>4.680</td><td></td><td>5</td><td>4.480</td></tr> <tr><td>10</td><td>4.610</td><td></td><td>11</td><td>4.480</td></tr> <tr><td>14</td><td>4.580</td><td></td><td>16</td><td>4.480</td></tr> <tr><td>17</td><td>4.570</td><td></td><td>26</td><td>4.480</td></tr> <tr><td>117</td><td>4.560</td><td></td><td>131</td><td>4.480</td></tr> <tr><td>22</td><td>4.530</td><td></td><td>12</td><td>4.470</td></tr> <tr><td>35</td><td>4.530</td><td></td><td>114</td><td>4.470</td></tr> <tr><td>112</td><td>4.530</td><td></td><td>30</td><td>4.460</td></tr> <tr><td>133</td><td>4.530</td><td></td><td>130</td><td>4.460</td></tr> <tr><td>111</td><td>4.520</td><td></td><td>6</td><td>4.450</td></tr> <tr><td>116</td><td>4.520</td><td></td><td>31</td><td>4.450</td></tr> <tr><td>4</td><td>4.510</td><td></td><td>105</td><td>4.450</td></tr> <tr><td>13</td><td>4.510</td><td></td><td>135</td><td>4.450</td></tr> <tr><td>15</td><td>4.510</td><td></td><td>33</td><td>4.440</td></tr> <tr><td>106</td><td>4.510</td><td></td><td>38</td><td>4.440</td></tr> <tr><td>118</td><td>4.510</td><td></td><td>20</td><td>4.430</td></tr> <tr><td>136</td><td>4.510</td><td></td><td>23</td><td>4.390</td></tr> <tr><td>3</td><td>4.504</td><td></td><td>39</td><td>4.390</td></tr> <tr><td>7</td><td>4.500</td><td></td><td>119</td><td>4.390</td></tr> <tr><td>21</td><td>4.500</td><td></td><td>107</td><td>4.380</td></tr> <tr><td>104</td><td>4.500</td><td></td><td>18</td><td>4.350</td></tr> <tr><td>109</td><td>4.500</td><td></td><td>24</td><td>4.320</td></tr> <tr><td>124</td><td>4.500</td><td></td><td>40</td><td>3.890</td><td>UNUSED</td></tr> <tr><td>126</td><td>4.500</td><td></td><td>121</td><td>2.830</td><td>UNUSED</td></tr> </tbody> </table> <p>UNUSED: DATA UNUSED IN RUN 2</p>	113	4.880		1	4.490	36	4.870		27	4.490	19	4.700		34	4.489	115	4.680		5	4.480	10	4.610		11	4.480	14	4.580		16	4.480	17	4.570		26	4.480	117	4.560		131	4.480	22	4.530		12	4.470	35	4.530		114	4.470	112	4.530		30	4.460	133	4.530		130	4.460	111	4.520		6	4.450	116	4.520		31	4.450	4	4.510		105	4.450	13	4.510		135	4.450	15	4.510		33	4.440	106	4.510		38	4.440	118	4.510		20	4.430	136	4.510		23	4.390	3	4.504		39	4.390	7	4.500		119	4.390	21	4.500		107	4.380	104	4.500		18	4.350	109	4.500		24	4.320	124	4.500		40	3.890	UNUSED	126	4.500		121	2.830	UNUSED	<p>PH SAMPLE NO.: G4 THEORETICAL VALUE 4.187 UNIT: PH UNITS</p> <p>RUN 1: NUMBER OF LABORATORIES: 54 ARITHMETIC MEAN VALUE: 4.208 MEDIAN: 4.230 STANDARD DEVIATION: 0.149 REL. ST. DEVIATION (%): 3.534</p> <p>RUN 2: NUMBER OF LABORATORIES: 52 ARITHMETIC MEAN VALUE: 4.234 MEDIAN: 4.230 STANDARD DEVIATION: 0.066 REL. ST. DEVIATION (%): 1.557</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>113</td><td>4.420</td><td></td><td>16</td><td>4.230</td></tr> <tr><td>115</td><td>4.390</td><td></td><td>111</td><td>4.230</td></tr> <tr><td>10</td><td>4.360</td><td></td><td>1</td><td>4.220</td></tr> <tr><td>19</td><td>4.350</td><td></td><td>11</td><td>4.220</td></tr> <tr><td>133</td><td>4.330</td><td></td><td>22</td><td>4.220</td></tr> <tr><td>17</td><td>4.300</td><td></td><td>26</td><td>4.220</td></tr> <tr><td>14</td><td>4.290</td><td></td><td>38</td><td>4.220</td></tr> <tr><td>36</td><td>4.280</td><td></td><td>116</td><td>4.220</td></tr> <tr><td>31</td><td>4.270</td><td></td><td>136</td><td>4.220</td></tr> <tr><td>35</td><td>4.270</td><td></td><td>5</td><td>4.210</td></tr> <tr><td>112</td><td>4.270</td><td></td><td>6</td><td>4.210</td></tr> <tr><td>117</td><td>4.270</td><td></td><td>114</td><td>4.210</td></tr> <tr><td>13</td><td>4.260</td><td></td><td>131</td><td>4.210</td></tr> <tr><td>104</td><td>4.260</td><td></td><td>12</td><td>4.200</td></tr> <tr><td>105</td><td>4.260</td><td></td><td>30</td><td>4.200</td></tr> <tr><td>118</td><td>4.260</td><td></td><td>124</td><td>4.200</td></tr> <tr><td>3</td><td>4.253</td><td></td><td>33</td><td>4.190</td></tr> <tr><td>15</td><td>4.240</td><td></td><td>39</td><td>4.180</td></tr> <tr><td>21</td><td>4.240</td><td></td><td>135</td><td>4.180</td></tr> <tr><td>27</td><td>4.240</td><td></td><td>20</td><td>4.160</td></tr> <tr><td>106</td><td>4.240</td><td></td><td>23</td><td>4.150</td></tr> <tr><td>109</td><td>4.240</td><td></td><td>107</td><td>4.130</td></tr> <tr><td>126</td><td>4.240</td><td></td><td>119</td><td>4.130</td></tr> <tr><td>130</td><td>4.240</td><td></td><td>18</td><td>4.110</td></tr> <tr><td>34</td><td>4.233</td><td></td><td>24</td><td>4.030</td></tr> <tr><td>4</td><td>4.230</td><td></td><td>40</td><td>3.680</td><td>UNUSED</td></tr> <tr><td>7</td><td>4.230</td><td></td><td>121</td><td>3.410</td><td>UNUSED</td></tr> </tbody> </table> <p>UNUSED: DATA UNUSED IN RUN 2</p>	113	4.420		16	4.230	115	4.390		111	4.230	10	4.360		1	4.220	19	4.350		11	4.220	133	4.330		22	4.220	17	4.300		26	4.220	14	4.290		38	4.220	36	4.280		116	4.220	31	4.270		136	4.220	35	4.270		5	4.210	112	4.270		6	4.210	117	4.270		114	4.210	13	4.260		131	4.210	104	4.260		12	4.200	105	4.260		30	4.200	118	4.260		124	4.200	3	4.253		33	4.190	15	4.240		39	4.180	21	4.240		135	4.180	27	4.240		20	4.160	106	4.240		23	4.150	109	4.240		107	4.130	126	4.240		119	4.130	130	4.240		18	4.110	34	4.233		24	4.030	4	4.230		40	3.680	UNUSED	7	4.230		121	3.410	UNUSED
113	4.880		1	4.490																																																																																																																																																																																																																																																																															
36	4.870		27	4.490																																																																																																																																																																																																																																																																															
19	4.700		34	4.489																																																																																																																																																																																																																																																																															
115	4.680		5	4.480																																																																																																																																																																																																																																																																															
10	4.610		11	4.480																																																																																																																																																																																																																																																																															
14	4.580		16	4.480																																																																																																																																																																																																																																																																															
17	4.570		26	4.480																																																																																																																																																																																																																																																																															
117	4.560		131	4.480																																																																																																																																																																																																																																																																															
22	4.530		12	4.470																																																																																																																																																																																																																																																																															
35	4.530		114	4.470																																																																																																																																																																																																																																																																															
112	4.530		30	4.460																																																																																																																																																																																																																																																																															
133	4.530		130	4.460																																																																																																																																																																																																																																																																															
111	4.520		6	4.450																																																																																																																																																																																																																																																																															
116	4.520		31	4.450																																																																																																																																																																																																																																																																															
4	4.510		105	4.450																																																																																																																																																																																																																																																																															
13	4.510		135	4.450																																																																																																																																																																																																																																																																															
15	4.510		33	4.440																																																																																																																																																																																																																																																																															
106	4.510		38	4.440																																																																																																																																																																																																																																																																															
118	4.510		20	4.430																																																																																																																																																																																																																																																																															
136	4.510		23	4.390																																																																																																																																																																																																																																																																															
3	4.504		39	4.390																																																																																																																																																																																																																																																																															
7	4.500		119	4.390																																																																																																																																																																																																																																																																															
21	4.500		107	4.380																																																																																																																																																																																																																																																																															
104	4.500		18	4.350																																																																																																																																																																																																																																																																															
109	4.500		24	4.320																																																																																																																																																																																																																																																																															
124	4.500		40	3.890	UNUSED																																																																																																																																																																																																																																																																														
126	4.500		121	2.830	UNUSED																																																																																																																																																																																																																																																																														
113	4.420		16	4.230																																																																																																																																																																																																																																																																															
115	4.390		111	4.230																																																																																																																																																																																																																																																																															
10	4.360		1	4.220																																																																																																																																																																																																																																																																															
19	4.350		11	4.220																																																																																																																																																																																																																																																																															
133	4.330		22	4.220																																																																																																																																																																																																																																																																															
17	4.300		26	4.220																																																																																																																																																																																																																																																																															
14	4.290		38	4.220																																																																																																																																																																																																																																																																															
36	4.280		116	4.220																																																																																																																																																																																																																																																																															
31	4.270		136	4.220																																																																																																																																																																																																																																																																															
35	4.270		5	4.210																																																																																																																																																																																																																																																																															
112	4.270		6	4.210																																																																																																																																																																																																																																																																															
117	4.270		114	4.210																																																																																																																																																																																																																																																																															
13	4.260		131	4.210																																																																																																																																																																																																																																																																															
104	4.260		12	4.200																																																																																																																																																																																																																																																																															
105	4.260		30	4.200																																																																																																																																																																																																																																																																															
118	4.260		124	4.200																																																																																																																																																																																																																																																																															
3	4.253		33	4.190																																																																																																																																																																																																																																																																															
15	4.240		39	4.180																																																																																																																																																																																																																																																																															
21	4.240		135	4.180																																																																																																																																																																																																																																																																															
27	4.240		20	4.160																																																																																																																																																																																																																																																																															
106	4.240		23	4.150																																																																																																																																																																																																																																																																															
109	4.240		107	4.130																																																																																																																																																																																																																																																																															
126	4.240		119	4.130																																																																																																																																																																																																																																																																															
130	4.240		18	4.110																																																																																																																																																																																																																																																																															
34	4.233		24	4.030																																																																																																																																																																																																																																																																															
4	4.230		40	3.680	UNUSED																																																																																																																																																																																																																																																																														
7	4.230		121	3.410	UNUSED																																																																																																																																																																																																																																																																														

Table 22: Analytical results for strong acid calculated from pH.

<p>STRONG ACID CALCULATED FROM PH SAMPLE NO.: G1 THEORETICAL VALUE 75.000 UNIT: µeq/l</p> <p>RUN 1: NUMBER OF LABORATORIES: 54 ARITHMETIC MEAN VALUE: 68.658 MEDIAN: 66.069 STANDARD DEVIATION: 19.513 REL. ST. DEVIATION (%): 28.420</p> <p>RUN 2: NUMBER OF LABORATORIES: 53 ARITHMETIC MEAN VALUE: 66.440 MEDIAN: 66.069 STANDARD DEVIATION: 10.831 REL. ST. DEVIATION (%): 16.302</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tr><td>40</td><td>186.209</td><td>UNUSED</td><td>33</td><td>66.069</td></tr> <tr><td>18</td><td>97.724</td><td></td><td>106</td><td>66.069</td></tr> <tr><td>24</td><td>89.125</td><td></td><td>133</td><td>66.069</td></tr> <tr><td>121</td><td>89.125</td><td></td><td>34</td><td>65.766</td></tr> <tr><td>107</td><td>85.114</td><td></td><td>7</td><td>64.565</td></tr> <tr><td>23</td><td>81.283</td><td></td><td>13</td><td>64.565</td></tr> <tr><td>20</td><td>77.625</td><td></td><td>15</td><td>64.565</td></tr> <tr><td>119</td><td>75.858</td><td></td><td>104</td><td>64.565</td></tr> <tr><td>130</td><td>75.858</td><td></td><td>112</td><td>64.565</td></tr> <tr><td>5</td><td>72.444</td><td></td><td>114</td><td>64.565</td></tr> <tr><td>12</td><td>72.444</td><td></td><td>118</td><td>64.565</td></tr> <tr><td>30</td><td>72.444</td><td></td><td>35</td><td>63.096</td></tr> <tr><td>11</td><td>70.795</td><td></td><td>124</td><td>63.096</td></tr> <tr><td>16</td><td>70.795</td><td></td><td>3</td><td>62.951</td></tr> <tr><td>38</td><td>70.795</td><td></td><td>22</td><td>61.660</td></tr> <tr><td>105</td><td>70.795</td><td></td><td>36</td><td>61.660</td></tr> <tr><td>136</td><td>70.795</td><td></td><td>126</td><td>61.660</td></tr> <tr><td>1</td><td>69.183</td><td></td><td>14</td><td>58.884</td></tr> <tr><td>6</td><td>69.183</td><td></td><td>111</td><td>58.884</td></tr> <tr><td>26</td><td>69.183</td><td></td><td>17</td><td>57.544</td></tr> <tr><td>39</td><td>69.183</td><td></td><td>109</td><td>54.954</td></tr> <tr><td>131</td><td>69.183</td><td></td><td>116</td><td>53.703</td></tr> <tr><td>135</td><td>67.608</td><td></td><td>10</td><td>48.978</td></tr> <tr><td>31</td><td>67.298</td><td></td><td>19</td><td>47.863</td></tr> <tr><td>4</td><td>66.069</td><td></td><td>113</td><td>45.709</td></tr> <tr><td>21</td><td>66.069</td><td></td><td>117</td><td>44.668</td></tr> <tr><td>27</td><td>66.069</td><td></td><td>115</td><td>38.019</td></tr> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	40	186.209	UNUSED	33	66.069	18	97.724		106	66.069	24	89.125		133	66.069	121	89.125		34	65.766	107	85.114		7	64.565	23	81.283		13	64.565	20	77.625		15	64.565	119	75.858		104	64.565	130	75.858		112	64.565	5	72.444		114	64.565	12	72.444		118	64.565	30	72.444		35	63.096	11	70.795		124	63.096	16	70.795		3	62.951	38	70.795		22	61.660	105	70.795		36	61.660	136	70.795		126	61.660	1	69.183		14	58.884	6	69.183		111	58.884	26	69.183		17	57.544	39	69.183		109	54.954	131	69.183		116	53.703	135	67.608		10	48.978	31	67.298		19	47.863	4	66.069		113	45.709	21	66.069		117	44.668	27	66.069		115	38.019	<p>STRONG ACID CALCULATED FROM PH SAMPLE NO.: G2 THEORETICAL VALUE 30.000 UNIT: µeq/l</p> <p>RUN 1: NUMBER OF LABORATORIES: 54 ARITHMETIC MEAN VALUE: 39.954 MEDIAN: 27.638 STANDARD DEVIATION: 83.182 REL. ST. DEVIATION (%): 208.195</p> <p>RUN 2: NUMBER OF LABORATORIES: 53 ARITHMETIC MEAN VALUE: 28.803 MEDIAN: 27.542 STANDARD DEVIATION: 14.439 REL. ST. DEVIATION (%): 50.131</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tr><td>121</td><td>630.957</td><td>UNUSED</td><td>27</td><td>27.542</td></tr> <tr><td>40</td><td>120.226</td><td></td><td>31</td><td>27.542</td></tr> <tr><td>117</td><td>45.709</td><td></td><td>109</td><td>27.542</td></tr> <tr><td>18</td><td>39.811</td><td></td><td>4</td><td>26.915</td></tr> <tr><td>107</td><td>37.154</td><td></td><td>21</td><td>26.915</td></tr> <tr><td>23</td><td>36.308</td><td></td><td>130</td><td>26.915</td></tr> <tr><td>24</td><td>34.674</td><td></td><td>7</td><td>26.303</td></tr> <tr><td>33</td><td>33.113</td><td></td><td>118</td><td>26.303</td></tr> <tr><td>38</td><td>32.359</td><td></td><td>126</td><td>26.303</td></tr> <tr><td>119</td><td>32.359</td><td></td><td>34</td><td>26.182</td></tr> <tr><td>20</td><td>31.623</td><td></td><td>13</td><td>25.704</td></tr> <tr><td>6</td><td>30.903</td><td></td><td>15</td><td>25.704</td></tr> <tr><td>16</td><td>30.903</td><td></td><td>106</td><td>25.119</td></tr> <tr><td>135</td><td>30.903</td><td></td><td>124</td><td>25.119</td></tr> <tr><td>114</td><td>30.200</td><td></td><td>22</td><td>24.547</td></tr> <tr><td>12</td><td>29.512</td><td></td><td>17</td><td>23.442</td></tr> <tr><td>30</td><td>29.512</td><td></td><td>111</td><td>23.442</td></tr> <tr><td>5</td><td>28.840</td><td></td><td>35</td><td>22.909</td></tr> <tr><td>11</td><td>28.840</td><td></td><td>14</td><td>22.387</td></tr> <tr><td>26</td><td>28.840</td><td></td><td>10</td><td>21.878</td></tr> <tr><td>39</td><td>28.840</td><td></td><td>112</td><td>21.380</td></tr> <tr><td>105</td><td>28.840</td><td></td><td>116</td><td>20.417</td></tr> <tr><td>1</td><td>28.184</td><td></td><td>133</td><td>18.621</td></tr> <tr><td>104</td><td>28.184</td><td></td><td>115</td><td>17.783</td></tr> <tr><td>131</td><td>28.184</td><td></td><td>19</td><td>17.378</td></tr> <tr><td>136</td><td>28.184</td><td></td><td>36</td><td>11.220</td></tr> <tr><td>3</td><td>27.733</td><td></td><td>113</td><td>1.096</td></tr> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	121	630.957	UNUSED	27	27.542	40	120.226		31	27.542	117	45.709		109	27.542	18	39.811		4	26.915	107	37.154		21	26.915	23	36.308		130	26.915	24	34.674		7	26.303	33	33.113		118	26.303	38	32.359		126	26.303	119	32.359		34	26.182	20	31.623		13	25.704	6	30.903		15	25.704	16	30.903		106	25.119	135	30.903		124	25.119	114	30.200		22	24.547	12	29.512		17	23.442	30	29.512		111	23.442	5	28.840		35	22.909	11	28.840		14	22.387	26	28.840		10	21.878	39	28.840		112	21.380	105	28.840		116	20.417	1	28.184		133	18.621	104	28.184		115	17.783	131	28.184		19	17.378	136	28.184		36	11.220	3	27.733		113	1.096
40	186.209	UNUSED	33	66.069																																																																																																																																																																																																																																																																											
18	97.724		106	66.069																																																																																																																																																																																																																																																																											
24	89.125		133	66.069																																																																																																																																																																																																																																																																											
121	89.125		34	65.766																																																																																																																																																																																																																																																																											
107	85.114		7	64.565																																																																																																																																																																																																																																																																											
23	81.283		13	64.565																																																																																																																																																																																																																																																																											
20	77.625		15	64.565																																																																																																																																																																																																																																																																											
119	75.858		104	64.565																																																																																																																																																																																																																																																																											
130	75.858		112	64.565																																																																																																																																																																																																																																																																											
5	72.444		114	64.565																																																																																																																																																																																																																																																																											
12	72.444		118	64.565																																																																																																																																																																																																																																																																											
30	72.444		35	63.096																																																																																																																																																																																																																																																																											
11	70.795		124	63.096																																																																																																																																																																																																																																																																											
16	70.795		3	62.951																																																																																																																																																																																																																																																																											
38	70.795		22	61.660																																																																																																																																																																																																																																																																											
105	70.795		36	61.660																																																																																																																																																																																																																																																																											
136	70.795		126	61.660																																																																																																																																																																																																																																																																											
1	69.183		14	58.884																																																																																																																																																																																																																																																																											
6	69.183		111	58.884																																																																																																																																																																																																																																																																											
26	69.183		17	57.544																																																																																																																																																																																																																																																																											
39	69.183		109	54.954																																																																																																																																																																																																																																																																											
131	69.183		116	53.703																																																																																																																																																																																																																																																																											
135	67.608		10	48.978																																																																																																																																																																																																																																																																											
31	67.298		19	47.863																																																																																																																																																																																																																																																																											
4	66.069		113	45.709																																																																																																																																																																																																																																																																											
21	66.069		117	44.668																																																																																																																																																																																																																																																																											
27	66.069		115	38.019																																																																																																																																																																																																																																																																											
121	630.957	UNUSED	27	27.542																																																																																																																																																																																																																																																																											
40	120.226		31	27.542																																																																																																																																																																																																																																																																											
117	45.709		109	27.542																																																																																																																																																																																																																																																																											
18	39.811		4	26.915																																																																																																																																																																																																																																																																											
107	37.154		21	26.915																																																																																																																																																																																																																																																																											
23	36.308		130	26.915																																																																																																																																																																																																																																																																											
24	34.674		7	26.303																																																																																																																																																																																																																																																																											
33	33.113		118	26.303																																																																																																																																																																																																																																																																											
38	32.359		126	26.303																																																																																																																																																																																																																																																																											
119	32.359		34	26.182																																																																																																																																																																																																																																																																											
20	31.623		13	25.704																																																																																																																																																																																																																																																																											
6	30.903		15	25.704																																																																																																																																																																																																																																																																											
16	30.903		106	25.119																																																																																																																																																																																																																																																																											
135	30.903		124	25.119																																																																																																																																																																																																																																																																											
114	30.200		22	24.547																																																																																																																																																																																																																																																																											
12	29.512		17	23.442																																																																																																																																																																																																																																																																											
30	29.512		111	23.442																																																																																																																																																																																																																																																																											
5	28.840		35	22.909																																																																																																																																																																																																																																																																											
11	28.840		14	22.387																																																																																																																																																																																																																																																																											
26	28.840		10	21.878																																																																																																																																																																																																																																																																											
39	28.840		112	21.380																																																																																																																																																																																																																																																																											
105	28.840		116	20.417																																																																																																																																																																																																																																																																											
1	28.184		133	18.621																																																																																																																																																																																																																																																																											
104	28.184		115	17.783																																																																																																																																																																																																																																																																											
131	28.184		19	17.378																																																																																																																																																																																																																																																																											
136	28.184		36	11.220																																																																																																																																																																																																																																																																											
3	27.733		113	1.096																																																																																																																																																																																																																																																																											
<p>STRONG ACID CALCULATED FROM PH SAMPLE NO.: G3 THEORETICAL VALUE 35.000 UNIT: µeq/l</p> <p>RUN 1: NUMBER OF LABORATORIES: 54 ARITHMETIC MEAN VALUE: 60.623 MEDIAN: 31.991 STANDARD DEVIATION: 197.210 REL. ST. DEVIATION (%): 325.305</p> <p>RUN 2: NUMBER OF LABORATORIES: 53 ARITHMETIC MEAN VALUE: 33.859 MEDIAN: 31.623 STANDARD DEVIATION: 14.680 REL. ST. DEVIATION (%): 43.355</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tr><td>121</td><td>1479.108</td><td>UNUSED</td><td>7</td><td>31.623</td></tr> <tr><td>40</td><td>128.825</td><td></td><td>21</td><td>31.623</td></tr> <tr><td>24</td><td>47.863</td><td></td><td>104</td><td>31.623</td></tr> <tr><td>18</td><td>44.668</td><td></td><td>109</td><td>31.623</td></tr> <tr><td>107</td><td>41.687</td><td></td><td>124</td><td>31.623</td></tr> <tr><td>23</td><td>40.738</td><td></td><td>126</td><td>31.623</td></tr> <tr><td>39</td><td>40.738</td><td></td><td>3</td><td>31.333</td></tr> <tr><td>119</td><td>40.738</td><td></td><td>4</td><td>30.903</td></tr> <tr><td>20</td><td>37.154</td><td></td><td>13</td><td>30.903</td></tr> <tr><td>33</td><td>36.308</td><td></td><td>15</td><td>30.903</td></tr> <tr><td>38</td><td>36.308</td><td></td><td>106</td><td>30.903</td></tr> <tr><td>6</td><td>35.481</td><td></td><td>118</td><td>30.903</td></tr> <tr><td>31</td><td>35.481</td><td></td><td>136</td><td>30.903</td></tr> <tr><td>105</td><td>35.481</td><td></td><td>111</td><td>30.200</td></tr> <tr><td>135</td><td>35.481</td><td></td><td>116</td><td>30.200</td></tr> <tr><td>30</td><td>34.674</td><td></td><td>22</td><td>29.512</td></tr> <tr><td>130</td><td>34.674</td><td></td><td>35</td><td>29.512</td></tr> <tr><td>12</td><td>33.884</td><td></td><td>112</td><td>29.512</td></tr> <tr><td>114</td><td>33.884</td><td></td><td>133</td><td>29.512</td></tr> <tr><td>5</td><td>33.113</td><td></td><td>117</td><td>27.542</td></tr> <tr><td>11</td><td>33.113</td><td></td><td>17</td><td>26.915</td></tr> <tr><td>16</td><td>33.113</td><td></td><td>14</td><td>26.303</td></tr> <tr><td>26</td><td>33.113</td><td></td><td>10</td><td>24.547</td></tr> <tr><td>131</td><td>33.113</td><td></td><td>115</td><td>20.893</td></tr> <tr><td>34</td><td>32.434</td><td></td><td>19</td><td>19.953</td></tr> <tr><td>1</td><td>32.359</td><td></td><td>36</td><td>13.490</td></tr> <tr><td>27</td><td>32.359</td><td></td><td>113</td><td>13.183</td></tr> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	121	1479.108	UNUSED	7	31.623	40	128.825		21	31.623	24	47.863		104	31.623	18	44.668		109	31.623	107	41.687		124	31.623	23	40.738		126	31.623	39	40.738		3	31.333	119	40.738		4	30.903	20	37.154		13	30.903	33	36.308		15	30.903	38	36.308		106	30.903	6	35.481		118	30.903	31	35.481		136	30.903	105	35.481		111	30.200	135	35.481		116	30.200	30	34.674		22	29.512	130	34.674		35	29.512	12	33.884		112	29.512	114	33.884		133	29.512	5	33.113		117	27.542	11	33.113		17	26.915	16	33.113		14	26.303	26	33.113		10	24.547	131	33.113		115	20.893	34	32.434		19	19.953	1	32.359		36	13.490	27	32.359		113	13.183	<p>STRONG ACID CALCULATED FROM PH SAMPLE NO.: G4 THEORETICAL VALUE 65.000 UNIT: µeq/l</p> <p>RUN 1: NUMBER OF LABORATORIES: 54 ARITHMETIC MEAN VALUE: 67.900 MEDIAN: 58.884 STANDARD DEVIATION: 49.778 REL. ST. DEVIATION (%): 73.310</p> <p>RUN 2: NUMBER OF LABORATORIES: 52 ARITHMETIC MEAN VALUE: 59.012 MEDIAN: 58.884 STANDARD DEVIATION: 9.069 REL. ST. DEVIATION (%): 15.367</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tr><td>121</td><td>389.045</td><td>UNUSED</td><td>16</td><td>58.884</td></tr> <tr><td>40</td><td>208.930</td><td>UNUSED</td><td>111</td><td>58.884</td></tr> <tr><td>24</td><td>93.325</td><td></td><td>34</td><td>58.479</td></tr> <tr><td>18</td><td>77.625</td><td></td><td>15</td><td>57.544</td></tr> <tr><td>107</td><td>74.131</td><td></td><td>21</td><td>57.544</td></tr> <tr><td>119</td><td>74.131</td><td></td><td>27</td><td>57.544</td></tr> <tr><td>23</td><td>70.795</td><td></td><td>106</td><td>57.544</td></tr> <tr><td>20</td><td>69.183</td><td></td><td>109</td><td>57.544</td></tr> <tr><td>39</td><td>66.069</td><td></td><td>126</td><td>57.544</td></tr> <tr><td>135</td><td>66.069</td><td></td><td>130</td><td>57.544</td></tr> <tr><td>33</td><td>64.565</td><td></td><td>3</td><td>55.847</td></tr> <tr><td>12</td><td>63.096</td><td></td><td>13</td><td>54.954</td></tr> <tr><td>30</td><td>63.096</td><td></td><td>104</td><td>54.954</td></tr> <tr><td>124</td><td>63.096</td><td></td><td>105</td><td>54.954</td></tr> <tr><td>5</td><td>61.660</td><td></td><td>118</td><td>54.954</td></tr> <tr><td>6</td><td>61.660</td><td></td><td>31</td><td>53.703</td></tr> <tr><td>114</td><td>61.660</td><td></td><td>35</td><td>53.703</td></tr> <tr><td>131</td><td>61.660</td><td></td><td>112</td><td>53.703</td></tr> <tr><td>1</td><td>60.256</td><td></td><td>117</td><td>53.703</td></tr> <tr><td>11</td><td>60.256</td><td></td><td>36</td><td>52.481</td></tr> <tr><td>22</td><td>60.256</td><td></td><td>14</td><td>51.286</td></tr> <tr><td>26</td><td>60.256</td><td></td><td>17</td><td>50.119</td></tr> <tr><td>38</td><td>60.256</td><td></td><td>133</td><td>46.774</td></tr> <tr><td>116</td><td>60.256</td><td></td><td>19</td><td>44.668</td></tr> <tr><td>136</td><td>60.256</td><td></td><td>10</td><td>43.652</td></tr> <tr><td>4</td><td>58.884</td><td></td><td>115</td><td>40.738</td></tr> <tr><td>7</td><td>58.884</td><td></td><td>113</td><td>38.019</td></tr> </table> <p>"UNUSED": DATA UNUSED IN RUN 2</p>	121	389.045	UNUSED	16	58.884	40	208.930	UNUSED	111	58.884	24	93.325		34	58.479	18	77.625		15	57.544	107	74.131		21	57.544	119	74.131		27	57.544	23	70.795		106	57.544	20	69.183		109	57.544	39	66.069		126	57.544	135	66.069		130	57.544	33	64.565		3	55.847	12	63.096		13	54.954	30	63.096		104	54.954	124	63.096		105	54.954	5	61.660		118	54.954	6	61.660		31	53.703	114	61.660		35	53.703	131	61.660		112	53.703	1	60.256		117	53.703	11	60.256		36	52.481	22	60.256		14	51.286	26	60.256		17	50.119	38	60.256		133	46.774	116	60.256		19	44.668	136	60.256		10	43.652	4	58.884		115	40.738	7	58.884		113	38.019
121	1479.108	UNUSED	7	31.623																																																																																																																																																																																																																																																																											
40	128.825		21	31.623																																																																																																																																																																																																																																																																											
24	47.863		104	31.623																																																																																																																																																																																																																																																																											
18	44.668		109	31.623																																																																																																																																																																																																																																																																											
107	41.687		124	31.623																																																																																																																																																																																																																																																																											
23	40.738		126	31.623																																																																																																																																																																																																																																																																											
39	40.738		3	31.333																																																																																																																																																																																																																																																																											
119	40.738		4	30.903																																																																																																																																																																																																																																																																											
20	37.154		13	30.903																																																																																																																																																																																																																																																																											
33	36.308		15	30.903																																																																																																																																																																																																																																																																											
38	36.308		106	30.903																																																																																																																																																																																																																																																																											
6	35.481		118	30.903																																																																																																																																																																																																																																																																											
31	35.481		136	30.903																																																																																																																																																																																																																																																																											
105	35.481		111	30.200																																																																																																																																																																																																																																																																											
135	35.481		116	30.200																																																																																																																																																																																																																																																																											
30	34.674		22	29.512																																																																																																																																																																																																																																																																											
130	34.674		35	29.512																																																																																																																																																																																																																																																																											
12	33.884		112	29.512																																																																																																																																																																																																																																																																											
114	33.884		133	29.512																																																																																																																																																																																																																																																																											
5	33.113		117	27.542																																																																																																																																																																																																																																																																											
11	33.113		17	26.915																																																																																																																																																																																																																																																																											
16	33.113		14	26.303																																																																																																																																																																																																																																																																											
26	33.113		10	24.547																																																																																																																																																																																																																																																																											
131	33.113		115	20.893																																																																																																																																																																																																																																																																											
34	32.434		19	19.953																																																																																																																																																																																																																																																																											
1	32.359		36	13.490																																																																																																																																																																																																																																																																											
27	32.359		113	13.183																																																																																																																																																																																																																																																																											
121	389.045	UNUSED	16	58.884																																																																																																																																																																																																																																																																											
40	208.930	UNUSED	111	58.884																																																																																																																																																																																																																																																																											
24	93.325		34	58.479																																																																																																																																																																																																																																																																											
18	77.625		15	57.544																																																																																																																																																																																																																																																																											
107	74.131		21	57.544																																																																																																																																																																																																																																																																											
119	74.131		27	57.544																																																																																																																																																																																																																																																																											
23	70.795		106	57.544																																																																																																																																																																																																																																																																											
20	69.183		109	57.544																																																																																																																																																																																																																																																																											
39	66.069		126	57.544																																																																																																																																																																																																																																																																											
135	66.069		130	57.544																																																																																																																																																																																																																																																																											
33	64.565		3	55.847																																																																																																																																																																																																																																																																											
12	63.096		13	54.954																																																																																																																																																																																																																																																																											
30	63.096		104	54.954																																																																																																																																																																																																																																																																											
124	63.096		105	54.954																																																																																																																																																																																																																																																																											
5	61.660		118	54.954																																																																																																																																																																																																																																																																											
6	61.660		31	53.703																																																																																																																																																																																																																																																																											
114	61.660		35	53.703																																																																																																																																																																																																																																																																											
131	61.660		112	53.703																																																																																																																																																																																																																																																																											
1	60.256		117	53.703																																																																																																																																																																																																																																																																											
11	60.256		36	52.481																																																																																																																																																																																																																																																																											
22	60.256		14	51.286																																																																																																																																																																																																																																																																											
26	60.256		17	50.119																																																																																																																																																																																																																																																																											
38	60.256		133	46.774																																																																																																																																																																																																																																																																											
116	60.256		19	44.668																																																																																																																																																																																																																																																																											
136	60.256		10	43.652																																																																																																																																																																																																																																																																											
4	58.884		115	40.738																																																																																																																																																																																																																																																																											
7	58.884		113	38.019																																																																																																																																																																																																																																																																											

Table 23: Analytical results for strong acid in precipitations samples.

<p>STRONG ACIDS SAMPLE NO.: G1 THEORETICAL VALUE 75. UNIT: $\mu\text{eq/l}$</p> <p>RUN 1: NUMBER OF LABORATORIES: 6 ARITHMETIC MEAN VALUE: 93.533 MEDIAN: 77.600 STANDARD DEVIATION: 40.316 REL. ST. DEVIATION (%): 43.103</p> <p>RUN 2: NUMBER OF LABORATORIES: 6 ARITHMETIC MEAN VALUE: 93.533 MEDIAN: 77.600 STANDARD DEVIATION: 40.316 REL. ST. DEVIATION (%): 43.103</p> <p>RESULTS IN DECREASING ORDER: 126 165.000 14 72.200 124 115.000 105 71.000 6 83.000 109 55.000 UNUSED: DATA UNUSED IN RUN 2</p>	<p>STRONG ACIDS SAMPLE NO.: G2 THEORETICAL VALUE 30. UNIT: $\mu\text{eq/l}$</p> <p>RUN 1: NUMBER OF LABORATORIES: 6 ARITHMETIC MEAN VALUE: 34.350 MEDIAN: 28.550 STANDARD DEVIATION: 25.251 REL. ST. DEVIATION (%): 73.511</p> <p>RUN 2: NUMBER OF LABORATORIES: 6 ARITHMETIC MEAN VALUE: 34.350 MEDIAN: 28.550 STANDARD DEVIATION: 25.251 REL. ST. DEVIATION (%): 73.511</p> <p>RESULTS IN DECREASING ORDER: 124 80.000 14 28.100 6 38.000 109 28.000 105 29.000 126 3.000 UNUSED: DATA UNUSED IN RUN 2</p>
<p>STRONG ACIDS SAMPLE NO.: G3 THEORETICAL VALUE 35. UNIT: $\mu\text{eq/l}$</p> <p>RUN 1: NUMBER OF LABORATORIES: 6 ARITHMETIC MEAN VALUE: 39.750 MEDIAN: 33.750 STANDARD DEVIATION: 15.811 REL. ST. DEVIATION (%): 39.775</p> <p>RUN 2: NUMBER OF LABORATORIES: 6 ARITHMETIC MEAN VALUE: 39.750 MEDIAN: 33.750 STANDARD DEVIATION: 15.811 REL. ST. DEVIATION (%): 39.775</p> <p>RESULTS IN DECREASING ORDER: 124 70.000 14 32.500 6 43.000 109 32.000 105 35.000 126 26.000 UNUSED: DATA UNUSED IN RUN 2</p>	<p>STRONG ACIDS SAMPLE NO.: G4 THEORETICAL VALUE 65. UNIT: $\mu\text{eq/l}$</p> <p>RUN 1: NUMBER OF LABORATORIES: 6 ARITHMETIC MEAN VALUE: 69.750 MEDIAN: 64.750 STANDARD DEVIATION: 18.220 REL. ST. DEVIATION (%): 26.122</p> <p>RUN 2: NUMBER OF LABORATORIES: 6 ARITHMETIC MEAN VALUE: 69.750 MEDIAN: 64.750 STANDARD DEVIATION: 18.220 REL. ST. DEVIATION (%): 26.122</p> <p>RESULTS IN DECREASING ORDER: 124 105.000 14 62.500 6 71.000 109 58.000 126 67.000 105 55.000 UNUSED: DATA UNUSED IN RUN 2</p>

Table 24: Analytical results for chloride in precipitations samples.

<p>CHLORIDE SAMPLE NO.: G1 THEORETICAL VALUE 0.203 UNIT: µg Cl/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 51 ARITHMETIC MEAN VALUE: 0.214 MEDIAN: 0.200 STANDARD DEVIATION: 0.083 REL. ST. DEVIATION (%): 38.790</p> <p>RUN 2: NUMBER OF LABORATORIES: 48 ARITHMETIC MEAN VALUE: 0.207 MEDIAN: 0.200 STANDARD DEVIATION: 0.060 REL. ST. DEVIATION (%): 29.153</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>33</td><td>0.483</td><td>UNUSED</td><td>124</td><td>0.200</td></tr> <tr><td>130</td><td>0.480</td><td>UNUSED</td><td>31</td><td>0.199</td></tr> <tr><td>38</td><td>0.380</td><td></td><td>36</td><td>0.199</td></tr> <tr><td>115</td><td>0.380</td><td></td><td>14</td><td>0.198</td></tr> <tr><td>112</td><td>< 0.370</td><td></td><td></td><td></td></tr> <tr><td>133</td><td>0.354</td><td></td><td></td><td></td></tr> <tr><td>19</td><td>< 0.310</td><td></td><td>27</td><td>0.198</td></tr> <tr><td>119</td><td>0.300</td><td></td><td>8</td><td>0.197</td></tr> <tr><td>121</td><td>0.282</td><td></td><td>13</td><td>0.197</td></tr> <tr><td>40</td><td>0.274</td><td></td><td>134</td><td>0.195</td></tr> <tr><td>109</td><td>< 0.250</td><td></td><td></td><td></td></tr> <tr><td>131</td><td>0.244</td><td></td><td>34</td><td>0.193</td></tr> <tr><td>10</td><td>0.240</td><td></td><td>6</td><td>0.192</td></tr> <tr><td>11</td><td>0.233</td><td></td><td>35</td><td>0.185</td></tr> <tr><td>105</td><td>0.233</td><td></td><td>7</td><td>0.182</td></tr> <tr><td>111</td><td>0.223</td><td></td><td>39</td><td>0.181</td></tr> <tr><td>12</td><td>0.220</td><td></td><td>30</td><td>0.180</td></tr> <tr><td>135</td><td>0.220</td><td></td><td>3</td><td>0.176</td></tr> <tr><td>4</td><td>0.217</td><td></td><td>136</td><td>0.175</td></tr> <tr><td>16</td><td>0.217</td><td></td><td>1</td><td>0.170</td></tr> <tr><td>23</td><td>0.209</td><td></td><td>18</td><td>0.154</td></tr> <tr><td>20</td><td>0.208</td><td></td><td>117</td><td>0.150</td></tr> <tr><td>17</td><td>0.207</td><td></td><td>116</td><td>0.140</td></tr> <tr><td>21</td><td>0.206</td><td></td><td>118</td><td>0.140</td></tr> <tr><td>5</td><td>0.204</td><td></td><td>126</td><td>0.130</td></tr> <tr><td>26</td><td>0.202</td><td></td><td>107</td><td>0.092</td></tr> <tr><td>15</td><td>0.200</td><td></td><td>24</td><td>0.050</td></tr> <tr><td>104</td><td>0.200</td><td></td><td>22</td><td>0.043</td></tr> <tr><td>114</td><td>0.200</td><td></td><td></td><td></td></tr> </tbody> </table> <p>UNUSED: DATA UNUSED IN RUN 2</p>	33	0.483	UNUSED	124	0.200	130	0.480	UNUSED	31	0.199	38	0.380		36	0.199	115	0.380		14	0.198	112	< 0.370				133	0.354				19	< 0.310		27	0.198	119	0.300		8	0.197	121	0.282		13	0.197	40	0.274		134	0.195	109	< 0.250				131	0.244		34	0.193	10	0.240		6	0.192	11	0.233		35	0.185	105	0.233		7	0.182	111	0.223		39	0.181	12	0.220		30	0.180	135	0.220		3	0.176	4	0.217		136	0.175	16	0.217		1	0.170	23	0.209		18	0.154	20	0.208		117	0.150	17	0.207		116	0.140	21	0.206		118	0.140	5	0.204		126	0.130	26	0.202		107	0.092	15	0.200		24	0.050	104	0.200		22	0.043	114	0.200				<p>CHLORIDE SAMPLE NO.: G2 THEORETICAL VALUE 0.261 UNIT: µg Cl/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 52 ARITHMETIC MEAN VALUE: 0.261 MEDIAN: 0.255 STANDARD DEVIATION: 0.084 REL. ST. DEVIATION (%): 32.047</p> <p>RUN 2: NUMBER OF LABORATORIES: 49 ARITHMETIC MEAN VALUE: 0.246 MEDIAN: 0.252 STANDARD DEVIATION: 0.054 REL. ST. DEVIATION (%): 22.091</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>33</td><td>0.578</td><td>UNUSED</td><td>20</td><td>0.254</td></tr> <tr><td>130</td><td>0.530</td><td>UNUSED</td><td>14</td><td>0.252</td></tr> <tr><td>38</td><td>0.440</td><td>UNUSED</td><td>13</td><td>0.250</td></tr> <tr><td>115</td><td>0.420</td><td></td><td>15</td><td>0.250</td></tr> <tr><td>112</td><td>< 0.370</td><td></td><td></td><td></td></tr> <tr><td>119</td><td>0.330</td><td></td><td>133</td><td>0.249</td></tr> <tr><td>121</td><td>0.320</td><td></td><td>6</td><td>0.247</td></tr> <tr><td>131</td><td>0.316</td><td></td><td>36</td><td>0.247</td></tr> <tr><td>19</td><td>< 0.310</td><td></td><td></td><td></td></tr> <tr><td>10</td><td>0.303</td><td></td><td>34</td><td>0.242</td></tr> <tr><td>104</td><td>0.293</td><td></td><td>30</td><td>0.240</td></tr> <tr><td>40</td><td>0.286</td><td></td><td>114</td><td>0.240</td></tr> <tr><td>12</td><td>0.280</td><td></td><td>35</td><td>0.239</td></tr> <tr><td>111</td><td>0.278</td><td></td><td>18</td><td>0.231</td></tr> <tr><td>31</td><td>0.276</td><td></td><td>7</td><td>0.230</td></tr> <tr><td>105</td><td>0.275</td><td></td><td>39</td><td>0.230</td></tr> <tr><td>11</td><td>0.273</td><td></td><td>136</td><td>0.226</td></tr> <tr><td>135</td><td>0.270</td><td></td><td>3</td><td>0.223</td></tr> <tr><td>4</td><td>0.267</td><td></td><td>1</td><td>0.220</td></tr> <tr><td>21</td><td>0.267</td><td></td><td>118</td><td>0.200</td></tr> <tr><td>5</td><td>0.264</td><td></td><td>117</td><td>0.195</td></tr> <tr><td>17</td><td>0.263</td><td></td><td>116</td><td>0.193</td></tr> <tr><td>16</td><td>0.261</td><td></td><td>22</td><td>0.177</td></tr> <tr><td>134</td><td>0.260</td><td></td><td>126</td><td>0.170</td></tr> <tr><td>23</td><td>0.258</td><td></td><td>24</td><td>0.150</td></tr> <tr><td>26</td><td>0.258</td><td></td><td>107</td><td>0.149</td></tr> <tr><td>8</td><td>0.255</td><td></td><td>109</td><td>0.110</td></tr> <tr><td>27</td><td>0.255</td><td></td><td>124</td><td>0.100</td></tr> </tbody> </table> <p>UNUSED: DATA UNUSED IN RUN 2</p>	33	0.578	UNUSED	20	0.254	130	0.530	UNUSED	14	0.252	38	0.440	UNUSED	13	0.250	115	0.420		15	0.250	112	< 0.370				119	0.330		133	0.249	121	0.320		6	0.247	131	0.316		36	0.247	19	< 0.310				10	0.303		34	0.242	104	0.293		30	0.240	40	0.286		114	0.240	12	0.280		35	0.239	111	0.278		18	0.231	31	0.276		7	0.230	105	0.275		39	0.230	11	0.273		136	0.226	135	0.270		3	0.223	4	0.267		1	0.220	21	0.267		118	0.200	5	0.264		117	0.195	17	0.263		116	0.193	16	0.261		22	0.177	134	0.260		126	0.170	23	0.258		24	0.150	26	0.258		107	0.149	8	0.255		109	0.110	27	0.255		124	0.100
33	0.483	UNUSED	124	0.200																																																																																																																																																																																																																																																																																										
130	0.480	UNUSED	31	0.199																																																																																																																																																																																																																																																																																										
38	0.380		36	0.199																																																																																																																																																																																																																																																																																										
115	0.380		14	0.198																																																																																																																																																																																																																																																																																										
112	< 0.370																																																																																																																																																																																																																																																																																													
133	0.354																																																																																																																																																																																																																																																																																													
19	< 0.310		27	0.198																																																																																																																																																																																																																																																																																										
119	0.300		8	0.197																																																																																																																																																																																																																																																																																										
121	0.282		13	0.197																																																																																																																																																																																																																																																																																										
40	0.274		134	0.195																																																																																																																																																																																																																																																																																										
109	< 0.250																																																																																																																																																																																																																																																																																													
131	0.244		34	0.193																																																																																																																																																																																																																																																																																										
10	0.240		6	0.192																																																																																																																																																																																																																																																																																										
11	0.233		35	0.185																																																																																																																																																																																																																																																																																										
105	0.233		7	0.182																																																																																																																																																																																																																																																																																										
111	0.223		39	0.181																																																																																																																																																																																																																																																																																										
12	0.220		30	0.180																																																																																																																																																																																																																																																																																										
135	0.220		3	0.176																																																																																																																																																																																																																																																																																										
4	0.217		136	0.175																																																																																																																																																																																																																																																																																										
16	0.217		1	0.170																																																																																																																																																																																																																																																																																										
23	0.209		18	0.154																																																																																																																																																																																																																																																																																										
20	0.208		117	0.150																																																																																																																																																																																																																																																																																										
17	0.207		116	0.140																																																																																																																																																																																																																																																																																										
21	0.206		118	0.140																																																																																																																																																																																																																																																																																										
5	0.204		126	0.130																																																																																																																																																																																																																																																																																										
26	0.202		107	0.092																																																																																																																																																																																																																																																																																										
15	0.200		24	0.050																																																																																																																																																																																																																																																																																										
104	0.200		22	0.043																																																																																																																																																																																																																																																																																										
114	0.200																																																																																																																																																																																																																																																																																													
33	0.578	UNUSED	20	0.254																																																																																																																																																																																																																																																																																										
130	0.530	UNUSED	14	0.252																																																																																																																																																																																																																																																																																										
38	0.440	UNUSED	13	0.250																																																																																																																																																																																																																																																																																										
115	0.420		15	0.250																																																																																																																																																																																																																																																																																										
112	< 0.370																																																																																																																																																																																																																																																																																													
119	0.330		133	0.249																																																																																																																																																																																																																																																																																										
121	0.320		6	0.247																																																																																																																																																																																																																																																																																										
131	0.316		36	0.247																																																																																																																																																																																																																																																																																										
19	< 0.310																																																																																																																																																																																																																																																																																													
10	0.303		34	0.242																																																																																																																																																																																																																																																																																										
104	0.293		30	0.240																																																																																																																																																																																																																																																																																										
40	0.286		114	0.240																																																																																																																																																																																																																																																																																										
12	0.280		35	0.239																																																																																																																																																																																																																																																																																										
111	0.278		18	0.231																																																																																																																																																																																																																																																																																										
31	0.276		7	0.230																																																																																																																																																																																																																																																																																										
105	0.275		39	0.230																																																																																																																																																																																																																																																																																										
11	0.273		136	0.226																																																																																																																																																																																																																																																																																										
135	0.270		3	0.223																																																																																																																																																																																																																																																																																										
4	0.267		1	0.220																																																																																																																																																																																																																																																																																										
21	0.267		118	0.200																																																																																																																																																																																																																																																																																										
5	0.264		117	0.195																																																																																																																																																																																																																																																																																										
17	0.263		116	0.193																																																																																																																																																																																																																																																																																										
16	0.261		22	0.177																																																																																																																																																																																																																																																																																										
134	0.260		126	0.170																																																																																																																																																																																																																																																																																										
23	0.258		24	0.150																																																																																																																																																																																																																																																																																										
26	0.258		107	0.149																																																																																																																																																																																																																																																																																										
8	0.255		109	0.110																																																																																																																																																																																																																																																																																										
27	0.255		124	0.100																																																																																																																																																																																																																																																																																										
<p>CHLORIDE SAMPLE NO.: G3 THEORETICAL VALUE 0.753 UNIT: µg Cl/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 54 ARITHMETIC MEAN VALUE: 0.725 MEDIAN: 0.731 STANDARD DEVIATION: 0.093 REL. ST. DEVIATION (%): 12.803</p> <p>RUN 2: NUMBER OF LABORATORIES: 51 ARITHMETIC MEAN VALUE: 0.720 MEDIAN: 0.731 STANDARD DEVIATION: 0.063 REL. ST. DEVIATION (%): 8.803</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>33</td><td>1.040</td><td>UNUSED</td><td>39</td><td>0.731</td></tr> <tr><td>133</td><td>0.987</td><td>UNUSED</td><td>112</td><td>0.730</td></tr> <tr><td>130</td><td>0.890</td><td></td><td>135</td><td>0.730</td></tr> <tr><td>115</td><td>0.840</td><td></td><td>8</td><td>0.724</td></tr> <tr><td>18</td><td>0.799</td><td></td><td>6</td><td>0.718</td></tr> <tr><td>38</td><td>0.790</td><td></td><td>105</td><td>0.718</td></tr> <tr><td>134</td><td>0.790</td><td></td><td>7</td><td>0.717</td></tr> <tr><td>4</td><td>0.789</td><td></td><td>34</td><td>0.716</td></tr> <tr><td>11</td><td>0.786</td><td></td><td>104</td><td>0.715</td></tr> <tr><td>12</td><td>0.770</td><td></td><td>121</td><td>0.708</td></tr> <tr><td>119</td><td>0.770</td><td></td><td>3</td><td>0.702</td></tr> <tr><td>17</td><td>0.766</td><td></td><td>20</td><td>0.691</td></tr> <tr><td>23</td><td>0.758</td><td></td><td>111</td><td>0.691</td></tr> <tr><td>131</td><td>0.758</td><td></td><td>136</td><td>0.688</td></tr> <tr><td>14</td><td>0.752</td><td></td><td>16</td><td>0.687</td></tr> <tr><td>27</td><td>0.752</td><td></td><td>19</td><td>0.686</td></tr> <tr><td>30</td><td>0.750</td><td></td><td>109</td><td>0.670</td></tr> <tr><td>26</td><td>0.747</td><td></td><td>1</td><td>0.660</td></tr> <tr><td>21</td><td>0.745</td><td></td><td>118</td><td>0.640</td></tr> <tr><td>5</td><td>0.743</td><td></td><td>117</td><td>0.635</td></tr> <tr><td>10</td><td>0.743</td><td></td><td>22</td><td>0.629</td></tr> <tr><td>15</td><td>0.740</td><td></td><td>107</td><td>0.615</td></tr> <tr><td>114</td><td>0.740</td><td></td><td>124</td><td>0.600</td></tr> <tr><td>31</td><td>0.739</td><td></td><td>126</td><td>0.600</td></tr> <tr><td>35</td><td>0.735</td><td></td><td>116</td><td>0.591</td></tr> <tr><td>36</td><td>0.732</td><td></td><td>40</td><td>0.562</td></tr> <tr><td>13</td><td>0.731</td><td></td><td>24</td><td>0.430</td></tr> </tbody> </table> <p>UNUSED: DATA UNUSED IN RUN 2</p>	33	1.040	UNUSED	39	0.731	133	0.987	UNUSED	112	0.730	130	0.890		135	0.730	115	0.840		8	0.724	18	0.799		6	0.718	38	0.790		105	0.718	134	0.790		7	0.717	4	0.789		34	0.716	11	0.786		104	0.715	12	0.770		121	0.708	119	0.770		3	0.702	17	0.766		20	0.691	23	0.758		111	0.691	131	0.758		136	0.688	14	0.752		16	0.687	27	0.752		19	0.686	30	0.750		109	0.670	26	0.747		1	0.660	21	0.745		118	0.640	5	0.743		117	0.635	10	0.743		22	0.629	15	0.740		107	0.615	114	0.740		124	0.600	31	0.739		126	0.600	35	0.735		116	0.591	36	0.732		40	0.562	13	0.731		24	0.430	<p>CHLORIDE SAMPLE NO.: G4 THEORETICAL VALUE 0.637 UNIT: µg Cl/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 54 ARITHMETIC MEAN VALUE: 0.611 MEDIAN: 0.620 STANDARD DEVIATION: 0.089 REL. ST. DEVIATION (%): 14.546</p> <p>RUN 2: NUMBER OF LABORATORIES: 50 ARITHMETIC MEAN VALUE: 0.611 MEDIAN: 0.620 STANDARD DEVIATION: 0.055 REL. ST. DEVIATION (%): 8.997</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>33</td><td>0.890</td><td>UNUSED</td><td>30</td><td>0.620</td></tr> <tr><td>133</td><td>0.842</td><td>UNUSED</td><td>35</td><td>0.620</td></tr> <tr><td>130</td><td>0.750</td><td></td><td>114</td><td>0.620</td></tr> <tr><td>115</td><td>0.710</td><td></td><td>5</td><td>0.617</td></tr> <tr><td>38</td><td>0.700</td><td></td><td>13</td><td>0.617</td></tr> <tr><td>14</td><td>0.674</td><td></td><td>36</td><td>0.613</td></tr> <tr><td>11</td><td>0.672</td><td></td><td>8</td><td>0.608</td></tr> <tr><td>18</td><td>0.667</td><td></td><td>6</td><td>0.600</td></tr> <tr><td>119</td><td>0.660</td><td></td><td>104</td><td>0.597</td></tr> <tr><td>12</td><td>0.650</td><td></td><td>7</td><td>0.594</td></tr> <tr><td>17</td><td>0.650</td><td></td><td>34</td><td>0.592</td></tr> <tr><td>121</td><td>0.647</td><td></td><td>111</td><td>0.590</td></tr> <tr><td>105</td><td>0.642</td><td></td><td>16</td><td>0.589</td></tr> <tr><td>39</td><td>0.641</td><td></td><td>3</td><td>0.587</td></tr> <tr><td>112</td><td>0.640</td><td></td><td>20</td><td>0.576</td></tr> <tr><td>23</td><td>0.634</td><td></td><td>19</td><td>0.571</td></tr> <tr><td>26</td><td>0.634</td><td></td><td>136</td><td>0.559</td></tr> <tr><td>31</td><td>0.632</td><td></td><td>1</td><td>0.550</td></tr> <tr><td>27</td><td>0.630</td><td></td><td>40</td><td>0.550</td></tr> <tr><td>134</td><td>0.630</td><td></td><td>109</td><td>0.550</td></tr> <tr><td>135</td><td>0.630</td><td></td><td>118</td><td>0.540</td></tr> <tr><td>10</td><td>0.630</td><td></td><td>124</td><td>0.500</td></tr> <tr><td>4</td><td>0.628</td><td></td><td>126</td><td>0.490</td></tr> <tr><td>21</td><td>0.623</td><td></td><td>107</td><td>0.486</td></tr> <tr><td>131</td><td>0.623</td><td></td><td>116</td><td>0.470</td></tr> <tr><td>22</td><td>0.621</td><td></td><td>24</td><td>0.350</td></tr> <tr><td>15</td><td>0.620</td><td></td><td>117</td><td>0.345</td></tr> </tbody> </table> <p>UNUSED: DATA UNUSED IN RUN 2</p>	33	0.890	UNUSED	30	0.620	133	0.842	UNUSED	35	0.620	130	0.750		114	0.620	115	0.710		5	0.617	38	0.700		13	0.617	14	0.674		36	0.613	11	0.672		8	0.608	18	0.667		6	0.600	119	0.660		104	0.597	12	0.650		7	0.594	17	0.650		34	0.592	121	0.647		111	0.590	105	0.642		16	0.589	39	0.641		3	0.587	112	0.640		20	0.576	23	0.634		19	0.571	26	0.634		136	0.559	31	0.632		1	0.550	27	0.630		40	0.550	134	0.630		109	0.550	135	0.630		118	0.540	10	0.630		124	0.500	4	0.628		126	0.490	21	0.623		107	0.486	131	0.623		116	0.470	22	0.621		24	0.350	15	0.620		117	0.345															
33	1.040	UNUSED	39	0.731																																																																																																																																																																																																																																																																																										
133	0.987	UNUSED	112	0.730																																																																																																																																																																																																																																																																																										
130	0.890		135	0.730																																																																																																																																																																																																																																																																																										
115	0.840		8	0.724																																																																																																																																																																																																																																																																																										
18	0.799		6	0.718																																																																																																																																																																																																																																																																																										
38	0.790		105	0.718																																																																																																																																																																																																																																																																																										
134	0.790		7	0.717																																																																																																																																																																																																																																																																																										
4	0.789		34	0.716																																																																																																																																																																																																																																																																																										
11	0.786		104	0.715																																																																																																																																																																																																																																																																																										
12	0.770		121	0.708																																																																																																																																																																																																																																																																																										
119	0.770		3	0.702																																																																																																																																																																																																																																																																																										
17	0.766		20	0.691																																																																																																																																																																																																																																																																																										
23	0.758		111	0.691																																																																																																																																																																																																																																																																																										
131	0.758		136	0.688																																																																																																																																																																																																																																																																																										
14	0.752		16	0.687																																																																																																																																																																																																																																																																																										
27	0.752		19	0.686																																																																																																																																																																																																																																																																																										
30	0.750		109	0.670																																																																																																																																																																																																																																																																																										
26	0.747		1	0.660																																																																																																																																																																																																																																																																																										
21	0.745		118	0.640																																																																																																																																																																																																																																																																																										
5	0.743		117	0.635																																																																																																																																																																																																																																																																																										
10	0.743		22	0.629																																																																																																																																																																																																																																																																																										
15	0.740		107	0.615																																																																																																																																																																																																																																																																																										
114	0.740		124	0.600																																																																																																																																																																																																																																																																																										
31	0.739		126	0.600																																																																																																																																																																																																																																																																																										
35	0.735		116	0.591																																																																																																																																																																																																																																																																																										
36	0.732		40	0.562																																																																																																																																																																																																																																																																																										
13	0.731		24	0.430																																																																																																																																																																																																																																																																																										
33	0.890	UNUSED	30	0.620																																																																																																																																																																																																																																																																																										
133	0.842	UNUSED	35	0.620																																																																																																																																																																																																																																																																																										
130	0.750		114	0.620																																																																																																																																																																																																																																																																																										
115	0.710		5	0.617																																																																																																																																																																																																																																																																																										
38	0.700		13	0.617																																																																																																																																																																																																																																																																																										
14	0.674		36	0.613																																																																																																																																																																																																																																																																																										
11	0.672		8	0.608																																																																																																																																																																																																																																																																																										
18	0.667		6	0.600																																																																																																																																																																																																																																																																																										
119	0.660		104	0.597																																																																																																																																																																																																																																																																																										
12	0.650		7	0.594																																																																																																																																																																																																																																																																																										
17	0.650		34	0.592																																																																																																																																																																																																																																																																																										
121	0.647		111	0.590																																																																																																																																																																																																																																																																																										
105	0.642		16	0.589																																																																																																																																																																																																																																																																																										
39	0.641		3	0.587																																																																																																																																																																																																																																																																																										
112	0.640		20	0.576																																																																																																																																																																																																																																																																																										
23	0.634		19	0.571																																																																																																																																																																																																																																																																																										
26	0.634		136	0.559																																																																																																																																																																																																																																																																																										
31	0.632		1	0.550																																																																																																																																																																																																																																																																																										
27	0.630		40	0.550																																																																																																																																																																																																																																																																																										
134	0.630		109	0.550																																																																																																																																																																																																																																																																																										
135	0.630		118	0.540																																																																																																																																																																																																																																																																																										
10	0.630		124	0.500																																																																																																																																																																																																																																																																																										
4	0.628		126	0.490																																																																																																																																																																																																																																																																																										
21	0.623		107	0.486																																																																																																																																																																																																																																																																																										
131	0.623		116	0.470																																																																																																																																																																																																																																																																																										
22	0.621		24	0.350																																																																																																																																																																																																																																																																																										
15	0.620		117	0.345																																																																																																																																																																																																																																																																																										

Table 25: Analytical results for sodium in precipitations samples.

<p>SODIUM SAMPLE NO.: G1 THEORETICAL VALUE 0.427 UNIT: µg Na/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 52 ARITHMETIC MEAN VALUE: 0.426 MEDIAN: 0.419 STANDARD DEVIATION: 0.053 REL. ST. DEVIATION (%): 12.321</p> <p>RUN 2: NUMBER OF LABORATORIES: 48 ARITHMETIC MEAN VALUE: 0.426 MEDIAN: 0.419 STANDARD DEVIATION: 0.034 REL. ST. DEVIATION (%): 8.083</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tr><td>130</td><td>0.600</td><td>UNUSED</td><td>8</td><td>0.419</td></tr> <tr><td>136</td><td>0.550</td><td>UNUSED</td><td>31</td><td>0.417</td></tr> <tr><td>105</td><td>0.520</td><td></td><td>16</td><td>0.416</td></tr> <tr><td>116</td><td>0.519</td><td></td><td>13</td><td>0.415</td></tr> <tr><td>124</td><td>0.500</td><td></td><td>14</td><td>0.415</td></tr> <tr><td>107</td><td>0.493</td><td></td><td>104</td><td>0.414</td></tr> <tr><td>4</td><td>0.491</td><td></td><td>6</td><td>0.410</td></tr> <tr><td>115</td><td>0.480</td><td></td><td>15</td><td>0.410</td></tr> <tr><td>17</td><td>0.453</td><td></td><td>38</td><td>0.410</td></tr> <tr><td>118</td><td>0.450</td><td></td><td>112</td><td>0.410</td></tr> <tr><td>19</td><td>0.449</td><td></td><td>119</td><td>0.410</td></tr> <tr><td>20</td><td>0.444</td><td></td><td>131</td><td>0.410</td></tr> <tr><td>114</td><td>0.440</td><td></td><td>23</td><td>0.408</td></tr> <tr><td>121</td><td>0.440</td><td></td><td>24</td><td>0.408</td></tr> <tr><td>21</td><td>0.430</td><td></td><td>35</td><td>0.405</td></tr> <tr><td>5</td><td>0.427</td><td></td><td>1</td><td>0.400</td></tr> <tr><td>26</td><td>0.427</td><td></td><td>11</td><td>0.400</td></tr> <tr><td>7</td><td>0.426</td><td></td><td>117</td><td>0.400</td></tr> <tr><td>36</td><td>0.426</td><td></td><td>133</td><td>0.400</td></tr> <tr><td>3</td><td>0.424</td><td></td><td>135</td><td>0.400</td></tr> <tr><td>39</td><td>0.424</td><td></td><td>22</td><td>0.397</td></tr> <tr><td>34</td><td>0.423</td><td></td><td>109</td><td>0.380</td></tr> <tr><td>27</td><td>0.422</td><td></td><td>126</td><td>0.380</td></tr> <tr><td>12</td><td>0.420</td><td></td><td>111</td><td>0.344</td></tr> <tr><td>30</td><td>0.420</td><td></td><td>10</td><td>0.310 UNUSED</td></tr> <tr><td>33</td><td>0.420</td><td></td><td>40</td><td>0.265 UNUSED</td></tr> </table> <p>UNUSED: DATA UNUSED IN RUN 2</p>	130	0.600	UNUSED	8	0.419	136	0.550	UNUSED	31	0.417	105	0.520		16	0.416	116	0.519		13	0.415	124	0.500		14	0.415	107	0.493		104	0.414	4	0.491		6	0.410	115	0.480		15	0.410	17	0.453		38	0.410	118	0.450		112	0.410	19	0.449		119	0.410	20	0.444		131	0.410	114	0.440		23	0.408	121	0.440		24	0.408	21	0.430		35	0.405	5	0.427		1	0.400	26	0.427		11	0.400	7	0.426		117	0.400	36	0.426		133	0.400	3	0.424		135	0.400	39	0.424		22	0.397	34	0.423		109	0.380	27	0.422		126	0.380	12	0.420		111	0.344	30	0.420		10	0.310 UNUSED	33	0.420		40	0.265 UNUSED	<p>SODIUM SAMPLE NO.: G2 THEORETICAL VALUE 0.384 UNIT: µg Na/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 52 ARITHMETIC MEAN VALUE: 0.377 MEDIAN: 0.376 STANDARD DEVIATION: 0.045 REL. ST. DEVIATION (%): 12.079</p> <p>RUN 2: NUMBER OF LABORATORIES: 48 ARITHMETIC MEAN VALUE: 0.377 MEDIAN: 0.376 STANDARD DEVIATION: 0.029 REL. ST. DEVIATION (%): 7.799</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tr><td>130</td><td>0.520</td><td>UNUSED</td><td>27</td><td>0.376</td></tr> <tr><td>116</td><td>0.487</td><td>UNUSED</td><td>24</td><td>0.371</td></tr> <tr><td>107</td><td>0.459</td><td></td><td>12</td><td>0.370</td></tr> <tr><td>136</td><td>0.456</td><td></td><td>15</td><td>0.370</td></tr> <tr><td>115</td><td>0.420</td><td></td><td>16</td><td>0.370</td></tr> <tr><td>4</td><td>0.413</td><td></td><td>105</td><td>0.370</td></tr> <tr><td>17</td><td>0.410</td><td></td><td>13</td><td>0.368</td></tr> <tr><td>20</td><td>0.408</td><td></td><td>23</td><td>0.368</td></tr> <tr><td>19</td><td>0.403</td><td></td><td>35</td><td>0.366</td></tr> <tr><td>131</td><td>0.403</td><td></td><td>6</td><td>0.365</td></tr> <tr><td>121</td><td>0.400</td><td></td><td>104</td><td>0.365</td></tr> <tr><td>124</td><td>0.400</td><td></td><td>1</td><td>0.360</td></tr> <tr><td>21</td><td>0.395</td><td></td><td>38</td><td>0.360</td></tr> <tr><td>34</td><td>0.392</td><td></td><td>112</td><td>0.360</td></tr> <tr><td>118</td><td>0.390</td><td></td><td>117</td><td>0.360</td></tr> <tr><td>8</td><td>0.386</td><td></td><td>119</td><td>0.360</td></tr> <tr><td>5</td><td>0.385</td><td></td><td>22</td><td>0.357</td></tr> <tr><td>7</td><td>0.385</td><td></td><td>33</td><td>0.350</td></tr> <tr><td>39</td><td>0.384</td><td></td><td>109</td><td>0.350</td></tr> <tr><td>26</td><td>0.382</td><td></td><td>135</td><td>0.340</td></tr> <tr><td>36</td><td>0.382</td><td></td><td>126</td><td>0.330</td></tr> <tr><td>30</td><td>0.380</td><td></td><td>11</td><td>0.320</td></tr> <tr><td>114</td><td>0.380</td><td></td><td>133</td><td>0.320</td></tr> <tr><td>3</td><td>0.379</td><td></td><td>111</td><td>0.308</td></tr> <tr><td>31</td><td>0.377</td><td></td><td>10</td><td>0.260 UNUSED</td></tr> <tr><td>14</td><td>0.376</td><td></td><td>40</td><td>0.240 UNUSED</td></tr> </table> <p>UNUSED: DATA UNUSED IN RUN 2</p>	130	0.520	UNUSED	27	0.376	116	0.487	UNUSED	24	0.371	107	0.459		12	0.370	136	0.456		15	0.370	115	0.420		16	0.370	4	0.413		105	0.370	17	0.410		13	0.368	20	0.408		23	0.368	19	0.403		35	0.366	131	0.403		6	0.365	121	0.400		104	0.365	124	0.400		1	0.360	21	0.395		38	0.360	34	0.392		112	0.360	118	0.390		117	0.360	8	0.386		119	0.360	5	0.385		22	0.357	7	0.385		33	0.350	39	0.384		109	0.350	26	0.382		135	0.340	36	0.382		126	0.330	30	0.380		11	0.320	114	0.380		133	0.320	3	0.379		111	0.308	31	0.377		10	0.260 UNUSED	14	0.376		40	0.240 UNUSED
130	0.600	UNUSED	8	0.419																																																																																																																																																																																																																																																																	
136	0.550	UNUSED	31	0.417																																																																																																																																																																																																																																																																	
105	0.520		16	0.416																																																																																																																																																																																																																																																																	
116	0.519		13	0.415																																																																																																																																																																																																																																																																	
124	0.500		14	0.415																																																																																																																																																																																																																																																																	
107	0.493		104	0.414																																																																																																																																																																																																																																																																	
4	0.491		6	0.410																																																																																																																																																																																																																																																																	
115	0.480		15	0.410																																																																																																																																																																																																																																																																	
17	0.453		38	0.410																																																																																																																																																																																																																																																																	
118	0.450		112	0.410																																																																																																																																																																																																																																																																	
19	0.449		119	0.410																																																																																																																																																																																																																																																																	
20	0.444		131	0.410																																																																																																																																																																																																																																																																	
114	0.440		23	0.408																																																																																																																																																																																																																																																																	
121	0.440		24	0.408																																																																																																																																																																																																																																																																	
21	0.430		35	0.405																																																																																																																																																																																																																																																																	
5	0.427		1	0.400																																																																																																																																																																																																																																																																	
26	0.427		11	0.400																																																																																																																																																																																																																																																																	
7	0.426		117	0.400																																																																																																																																																																																																																																																																	
36	0.426		133	0.400																																																																																																																																																																																																																																																																	
3	0.424		135	0.400																																																																																																																																																																																																																																																																	
39	0.424		22	0.397																																																																																																																																																																																																																																																																	
34	0.423		109	0.380																																																																																																																																																																																																																																																																	
27	0.422		126	0.380																																																																																																																																																																																																																																																																	
12	0.420		111	0.344																																																																																																																																																																																																																																																																	
30	0.420		10	0.310 UNUSED																																																																																																																																																																																																																																																																	
33	0.420		40	0.265 UNUSED																																																																																																																																																																																																																																																																	
130	0.520	UNUSED	27	0.376																																																																																																																																																																																																																																																																	
116	0.487	UNUSED	24	0.371																																																																																																																																																																																																																																																																	
107	0.459		12	0.370																																																																																																																																																																																																																																																																	
136	0.456		15	0.370																																																																																																																																																																																																																																																																	
115	0.420		16	0.370																																																																																																																																																																																																																																																																	
4	0.413		105	0.370																																																																																																																																																																																																																																																																	
17	0.410		13	0.368																																																																																																																																																																																																																																																																	
20	0.408		23	0.368																																																																																																																																																																																																																																																																	
19	0.403		35	0.366																																																																																																																																																																																																																																																																	
131	0.403		6	0.365																																																																																																																																																																																																																																																																	
121	0.400		104	0.365																																																																																																																																																																																																																																																																	
124	0.400		1	0.360																																																																																																																																																																																																																																																																	
21	0.395		38	0.360																																																																																																																																																																																																																																																																	
34	0.392		112	0.360																																																																																																																																																																																																																																																																	
118	0.390		117	0.360																																																																																																																																																																																																																																																																	
8	0.386		119	0.360																																																																																																																																																																																																																																																																	
5	0.385		22	0.357																																																																																																																																																																																																																																																																	
7	0.385		33	0.350																																																																																																																																																																																																																																																																	
39	0.384		109	0.350																																																																																																																																																																																																																																																																	
26	0.382		135	0.340																																																																																																																																																																																																																																																																	
36	0.382		126	0.330																																																																																																																																																																																																																																																																	
30	0.380		11	0.320																																																																																																																																																																																																																																																																	
114	0.380		133	0.320																																																																																																																																																																																																																																																																	
3	0.379		111	0.308																																																																																																																																																																																																																																																																	
31	0.377		10	0.260 UNUSED																																																																																																																																																																																																																																																																	
14	0.376		40	0.240 UNUSED																																																																																																																																																																																																																																																																	
<p>SODIUM SAMPLE NO.: G3 THEORETICAL VALUE 0.649 UNIT: µg Na/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 52 ARITHMETIC MEAN VALUE: 0.637 MEDIAN: 0.636 STANDARD DEVIATION: 0.071 REL. ST. DEVIATION (%): 11.204</p> <p>RUN 2: NUMBER OF LABORATORIES: 48 ARITHMETIC MEAN VALUE: 0.637 MEDIAN: 0.636 STANDARD DEVIATION: 0.043 REL. ST. DEVIATION (%): 6.700</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tr><td>136</td><td>0.877</td><td>UNUSED</td><td>27</td><td>0.636</td></tr> <tr><td>130</td><td>0.820</td><td>UNUSED</td><td>16</td><td>0.632</td></tr> <tr><td>20</td><td>0.747</td><td></td><td>23</td><td>0.632</td></tr> <tr><td>115</td><td>0.720</td><td></td><td>15</td><td>0.630</td></tr> <tr><td>107</td><td>0.717</td><td></td><td>119</td><td>0.630</td></tr> <tr><td>124</td><td>0.700</td><td></td><td>6</td><td>0.628</td></tr> <tr><td>4</td><td>0.697</td><td></td><td>35</td><td>0.628</td></tr> <tr><td>34</td><td>0.681</td><td></td><td>22</td><td>0.626</td></tr> <tr><td>17</td><td>0.670</td><td></td><td>31</td><td>0.624</td></tr> <tr><td>118</td><td>0.670</td><td></td><td>1</td><td>0.620</td></tr> <tr><td>19</td><td>0.667</td><td></td><td>33</td><td>0.620</td></tr> <tr><td>13</td><td>0.665</td><td></td><td>112</td><td>0.620</td></tr> <tr><td>7</td><td>0.651</td><td></td><td>116</td><td>0.620</td></tr> <tr><td>26</td><td>0.651</td><td></td><td>24</td><td>0.619</td></tr> <tr><td>5</td><td>0.650</td><td></td><td>104</td><td>0.619</td></tr> <tr><td>30</td><td>0.650</td><td></td><td>117</td><td>0.605</td></tr> <tr><td>105</td><td>0.650</td><td></td><td>11</td><td>0.600</td></tr> <tr><td>121</td><td>0.650</td><td></td><td>38</td><td>0.600</td></tr> <tr><td>36</td><td>0.649</td><td></td><td>135</td><td>0.600</td></tr> <tr><td>21</td><td>0.647</td><td></td><td>131</td><td>0.596</td></tr> <tr><td>3</td><td>0.645</td><td></td><td>109</td><td>0.580</td></tr> <tr><td>39</td><td>0.645</td><td></td><td>126</td><td>0.580</td></tr> <tr><td>14</td><td>0.641</td><td></td><td>133</td><td>0.520</td></tr> <tr><td>12</td><td>0.640</td><td></td><td>111</td><td>0.511</td></tr> <tr><td>114</td><td>0.640</td><td></td><td>10</td><td>0.480 UNUSED</td></tr> <tr><td>8</td><td>0.636</td><td></td><td>40</td><td>0.395 UNUSED</td></tr> </table> <p>UNUSED: DATA UNUSED IN RUN 2</p>	136	0.877	UNUSED	27	0.636	130	0.820	UNUSED	16	0.632	20	0.747		23	0.632	115	0.720		15	0.630	107	0.717		119	0.630	124	0.700		6	0.628	4	0.697		35	0.628	34	0.681		22	0.626	17	0.670		31	0.624	118	0.670		1	0.620	19	0.667		33	0.620	13	0.665		112	0.620	7	0.651		116	0.620	26	0.651		24	0.619	5	0.650		104	0.619	30	0.650		117	0.605	105	0.650		11	0.600	121	0.650		38	0.600	36	0.649		135	0.600	21	0.647		131	0.596	3	0.645		109	0.580	39	0.645		126	0.580	14	0.641		133	0.520	12	0.640		111	0.511	114	0.640		10	0.480 UNUSED	8	0.636		40	0.395 UNUSED	<p>SODIUM SAMPLE NO.: G4 THEORETICAL VALUE 0.682 UNIT: µg Na/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 52 ARITHMETIC MEAN VALUE: 0.662 MEDIAN: 0.660 STANDARD DEVIATION: 0.068 REL. ST. DEVIATION (%): 10.343</p> <p>RUN 2: NUMBER OF LABORATORIES: 48 ARITHMETIC MEAN VALUE: 0.661 MEDIAN: 0.660 STANDARD DEVIATION: 0.038 REL. ST. DEVIATION (%): 5.782</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tr><td>136</td><td>0.896</td><td>UNUSED</td><td>15</td><td>0.660</td></tr> <tr><td>130</td><td>0.850</td><td>UNUSED</td><td>121</td><td>0.660</td></tr> <tr><td>115</td><td>0.770</td><td></td><td>23</td><td>0.659</td></tr> <tr><td>20</td><td>0.761</td><td></td><td>27</td><td>0.657</td></tr> <tr><td>107</td><td>0.745</td><td></td><td>35</td><td>0.657</td></tr> <tr><td>17</td><td>0.705</td><td></td><td>8</td><td>0.656</td></tr> <tr><td>124</td><td>0.700</td><td></td><td>16</td><td>0.655</td></tr> <tr><td>4</td><td>0.690</td><td></td><td>104</td><td>0.652</td></tr> <tr><td>13</td><td>0.681</td><td></td><td>112</td><td>0.650</td></tr> <tr><td>105</td><td>0.680</td><td></td><td>114</td><td>0.650</td></tr> <tr><td>26</td><td>0.679</td><td></td><td>119</td><td>0.650</td></tr> <tr><td>19</td><td>0.678</td><td></td><td>31</td><td>0.647</td></tr> <tr><td>36</td><td>0.678</td><td></td><td>22</td><td>0.643</td></tr> <tr><td>5</td><td>0.677</td><td></td><td>24</td><td>0.641</td></tr> <tr><td>34</td><td>0.676</td><td></td><td>1</td><td>0.640</td></tr> <tr><td>7</td><td>0.674</td><td></td><td>117</td><td>0.635</td></tr> <tr><td>14</td><td>0.673</td><td></td><td>33</td><td>0.630</td></tr> <tr><td>21</td><td>0.672</td><td></td><td>11</td><td>0.620</td></tr> <tr><td>39</td><td>0.671</td><td></td><td>38</td><td>0.620</td></tr> <tr><td>30</td><td>0.670</td><td></td><td>109</td><td>0.620</td></tr> <tr><td>118</td><td>0.670</td><td></td><td>133</td><td>0.620</td></tr> <tr><td>6</td><td>0.667</td><td></td><td>135</td><td>0.620</td></tr> <tr><td>3</td><td>0.665</td><td></td><td>126</td><td>0.600</td></tr> <tr><td>116</td><td>0.663</td><td></td><td>111</td><td>0.531</td></tr> <tr><td>131</td><td>0.663</td><td></td><td>10</td><td>0.510 UNUSED</td></tr> <tr><td>12</td><td>0.660</td><td></td><td>40</td><td>0.423 UNUSED</td></tr> </table> <p>UNUSED: DATA UNUSED IN RUN 2</p>	136	0.896	UNUSED	15	0.660	130	0.850	UNUSED	121	0.660	115	0.770		23	0.659	20	0.761		27	0.657	107	0.745		35	0.657	17	0.705		8	0.656	124	0.700		16	0.655	4	0.690		104	0.652	13	0.681		112	0.650	105	0.680		114	0.650	26	0.679		119	0.650	19	0.678		31	0.647	36	0.678		22	0.643	5	0.677		24	0.641	34	0.676		1	0.640	7	0.674		117	0.635	14	0.673		33	0.630	21	0.672		11	0.620	39	0.671		38	0.620	30	0.670		109	0.620	118	0.670		133	0.620	6	0.667		135	0.620	3	0.665		126	0.600	116	0.663		111	0.531	131	0.663		10	0.510 UNUSED	12	0.660		40	0.423 UNUSED
136	0.877	UNUSED	27	0.636																																																																																																																																																																																																																																																																	
130	0.820	UNUSED	16	0.632																																																																																																																																																																																																																																																																	
20	0.747		23	0.632																																																																																																																																																																																																																																																																	
115	0.720		15	0.630																																																																																																																																																																																																																																																																	
107	0.717		119	0.630																																																																																																																																																																																																																																																																	
124	0.700		6	0.628																																																																																																																																																																																																																																																																	
4	0.697		35	0.628																																																																																																																																																																																																																																																																	
34	0.681		22	0.626																																																																																																																																																																																																																																																																	
17	0.670		31	0.624																																																																																																																																																																																																																																																																	
118	0.670		1	0.620																																																																																																																																																																																																																																																																	
19	0.667		33	0.620																																																																																																																																																																																																																																																																	
13	0.665		112	0.620																																																																																																																																																																																																																																																																	
7	0.651		116	0.620																																																																																																																																																																																																																																																																	
26	0.651		24	0.619																																																																																																																																																																																																																																																																	
5	0.650		104	0.619																																																																																																																																																																																																																																																																	
30	0.650		117	0.605																																																																																																																																																																																																																																																																	
105	0.650		11	0.600																																																																																																																																																																																																																																																																	
121	0.650		38	0.600																																																																																																																																																																																																																																																																	
36	0.649		135	0.600																																																																																																																																																																																																																																																																	
21	0.647		131	0.596																																																																																																																																																																																																																																																																	
3	0.645		109	0.580																																																																																																																																																																																																																																																																	
39	0.645		126	0.580																																																																																																																																																																																																																																																																	
14	0.641		133	0.520																																																																																																																																																																																																																																																																	
12	0.640		111	0.511																																																																																																																																																																																																																																																																	
114	0.640		10	0.480 UNUSED																																																																																																																																																																																																																																																																	
8	0.636		40	0.395 UNUSED																																																																																																																																																																																																																																																																	
136	0.896	UNUSED	15	0.660																																																																																																																																																																																																																																																																	
130	0.850	UNUSED	121	0.660																																																																																																																																																																																																																																																																	
115	0.770		23	0.659																																																																																																																																																																																																																																																																	
20	0.761		27	0.657																																																																																																																																																																																																																																																																	
107	0.745		35	0.657																																																																																																																																																																																																																																																																	
17	0.705		8	0.656																																																																																																																																																																																																																																																																	
124	0.700		16	0.655																																																																																																																																																																																																																																																																	
4	0.690		104	0.652																																																																																																																																																																																																																																																																	
13	0.681		112	0.650																																																																																																																																																																																																																																																																	
105	0.680		114	0.650																																																																																																																																																																																																																																																																	
26	0.679		119	0.650																																																																																																																																																																																																																																																																	
19	0.678		31	0.647																																																																																																																																																																																																																																																																	
36	0.678		22	0.643																																																																																																																																																																																																																																																																	
5	0.677		24	0.641																																																																																																																																																																																																																																																																	
34	0.676		1	0.640																																																																																																																																																																																																																																																																	
7	0.674		117	0.635																																																																																																																																																																																																																																																																	
14	0.673		33	0.630																																																																																																																																																																																																																																																																	
21	0.672		11	0.620																																																																																																																																																																																																																																																																	
39	0.671		38	0.620																																																																																																																																																																																																																																																																	
30	0.670		109	0.620																																																																																																																																																																																																																																																																	
118	0.670		133	0.620																																																																																																																																																																																																																																																																	
6	0.667		135	0.620																																																																																																																																																																																																																																																																	
3	0.665		126	0.600																																																																																																																																																																																																																																																																	
116	0.663		111	0.531																																																																																																																																																																																																																																																																	
131	0.663		10	0.510 UNUSED																																																																																																																																																																																																																																																																	
12	0.660		40	0.423 UNUSED																																																																																																																																																																																																																																																																	

Table 26: Analytical results for magnesium in precipitations samples.

<p>MAGNESIUM SAMPLE NO.: G1 THEORETICAL VALUE 0.093 UNIT: µg Mg/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 53 ARITHMETIC MEAN VALUE: 0.095 MEDIAN: 0.093 STANDARD DEVIATION: 0.014 REL. ST. DEVIATION (%): 14.860</p> <p>RUN 2: NUMBER OF LABORATORIES: 49 ARITHMETIC MEAN VALUE: 0.094 MEDIAN: 0.093 STANDARD DEVIATION: 0.008 REL. ST. DEVIATION (%): 8.675</p> <p>RESULTS IN DECREASING ORDER: 119 < 0.150</p> <table> <tbody> <tr><td>136</td><td>0.141</td><td>UNUSED</td><td>19</td><td>0.093</td></tr> <tr><td>105</td><td>0.130</td><td>UNUSED</td><td>21</td><td>0.093</td></tr> <tr><td>20</td><td>0.124</td><td>UNUSED</td><td>35</td><td>0.093</td></tr> <tr><td>135</td><td>0.120</td><td></td><td>111</td><td>0.093</td></tr> <tr><td>34</td><td>0.110</td><td></td><td>23</td><td>0.092</td></tr> <tr><td>130</td><td>0.110</td><td></td><td>24</td><td>0.092</td></tr> <tr><td>116</td><td>0.105</td><td></td><td>36</td><td>0.092</td></tr> <tr><td>40</td><td>0.104</td><td></td><td>104</td><td>0.092</td></tr> <tr><td>131</td><td>0.102</td><td></td><td>113</td><td>0.092</td></tr> <tr><td>133</td><td>0.101</td><td></td><td>39</td><td>0.091</td></tr> <tr><td>11</td><td>0.100</td><td></td><td>1</td><td>0.090</td></tr> <tr><td>17</td><td>0.100</td><td></td><td>12</td><td>0.090</td></tr> <tr><td>107</td><td>0.100</td><td></td><td>15</td><td>0.090</td></tr> <tr><td>114</td><td>0.100</td><td></td><td>30</td><td>0.090</td></tr> <tr><td>124</td><td>0.100</td><td></td><td>38</td><td>0.090</td></tr> <tr><td></td><td></td><td></td><td>109</td><td>0.090</td></tr> <tr><td>118</td><td>0.099</td><td></td><td>112</td><td>0.090</td></tr> <tr><td>26</td><td>0.097</td><td></td><td>13</td><td>0.089</td></tr> <tr><td>31</td><td>0.097</td><td></td><td>27</td><td>0.088</td></tr> <tr><td>3</td><td>0.096</td><td></td><td>117</td><td>0.088</td></tr> <tr><td>14</td><td>0.096</td><td></td><td>22</td><td>0.085</td></tr> <tr><td>7</td><td>0.095</td><td></td><td>121</td><td>0.085</td></tr> <tr><td>5</td><td>0.094</td><td></td><td>10</td><td>0.080</td></tr> <tr><td>8</td><td>0.094</td><td></td><td>126</td><td>0.080</td></tr> <tr><td>16</td><td>0.094</td><td></td><td>6</td><td>0.069</td></tr> <tr><td>33</td><td>0.094</td><td></td><td>115</td><td>0.040</td></tr> <tr><td>4</td><td>0.093</td><td></td><td></td><td></td></tr> </tbody> </table> <p>UNUSED: DATA UNUSED IN RUN 2</p>	136	0.141	UNUSED	19	0.093	105	0.130	UNUSED	21	0.093	20	0.124	UNUSED	35	0.093	135	0.120		111	0.093	34	0.110		23	0.092	130	0.110		24	0.092	116	0.105		36	0.092	40	0.104		104	0.092	131	0.102		113	0.092	133	0.101		39	0.091	11	0.100		1	0.090	17	0.100		12	0.090	107	0.100		15	0.090	114	0.100		30	0.090	124	0.100		38	0.090				109	0.090	118	0.099		112	0.090	26	0.097		13	0.089	31	0.097		27	0.088	3	0.096		117	0.088	14	0.096		22	0.085	7	0.095		121	0.085	5	0.094		10	0.080	8	0.094		126	0.080	16	0.094		6	0.069	33	0.094		115	0.040	4	0.093				<p>MAGNESIUM SAMPLE NO.: G2 THEORETICAL VALUE 0.155 UNIT: µg Mg/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 53 ARITHMETIC MEAN VALUE: 0.156 MEDIAN: 0.153 STANDARD DEVIATION: 0.015 REL. ST. DEVIATION (%): 9.680</p> <p>RUN 2: NUMBER OF LABORATORIES: 48 ARITHMETIC MEAN VALUE: 0.153 MEDIAN: 0.152 STANDARD DEVIATION: 0.010 REL. ST. DEVIATION (%): 6.271</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>124</td><td>0.200</td><td>UNUSED</td><td>16</td><td>0.152</td></tr> <tr><td>136</td><td>0.195</td><td>UNUSED</td><td>22</td><td>0.152</td></tr> <tr><td>105</td><td>0.190</td><td>UNUSED</td><td>24</td><td>0.152</td></tr> <tr><td>135</td><td>0.190</td><td>UNUSED</td><td>36</td><td>0.152</td></tr> <tr><td>130</td><td>0.180</td><td></td><td>39</td><td>0.152</td></tr> <tr><td>20</td><td>0.172</td><td></td><td>1</td><td>0.150</td></tr> <tr><td>133</td><td>0.168</td><td></td><td>11</td><td>0.150</td></tr> <tr><td>107</td><td>0.166</td><td></td><td>15</td><td>0.150</td></tr> <tr><td>131</td><td>0.166</td><td></td><td>30</td><td>0.150</td></tr> <tr><td>17</td><td>0.165</td><td></td><td>104</td><td>0.150</td></tr> <tr><td>116</td><td>0.165</td><td></td><td>109</td><td>0.150</td></tr> <tr><td>7</td><td>0.162</td><td></td><td>112</td><td>0.150</td></tr> <tr><td>31</td><td>0.160</td><td></td><td>119</td><td>0.150</td></tr> <tr><td>35</td><td>0.160</td><td></td><td>121</td><td>0.150</td></tr> <tr><td>114</td><td>0.160</td><td></td><td>27</td><td>0.148</td></tr> <tr><td>8</td><td>0.159</td><td></td><td>33</td><td>0.147</td></tr> <tr><td>26</td><td>0.159</td><td></td><td>113</td><td>0.144</td></tr> <tr><td>5</td><td>0.157</td><td></td><td>111</td><td>0.143</td></tr> <tr><td>3</td><td>0.156</td><td></td><td>117</td><td>0.143</td></tr> <tr><td>34</td><td>0.156</td><td></td><td>4</td><td>0.142</td></tr> <tr><td>12</td><td>0.155</td><td></td><td>38</td><td>0.140</td></tr> <tr><td>14</td><td>0.155</td><td></td><td>126</td><td>0.140</td></tr> <tr><td>21</td><td>0.155</td><td></td><td>6</td><td>0.138</td></tr> <tr><td>108</td><td>0.155</td><td></td><td>40</td><td>0.133</td></tr> <tr><td>19</td><td>0.154</td><td></td><td>10</td><td>0.130</td></tr> <tr><td>13</td><td>0.153</td><td></td><td>115</td><td>0.120</td></tr> <tr><td>23</td><td>0.153</td><td></td><td></td><td></td></tr> </tbody> </table> <p>UNUSED: DATA UNUSED IN RUN 2</p>	124	0.200	UNUSED	16	0.152	136	0.195	UNUSED	22	0.152	105	0.190	UNUSED	24	0.152	135	0.190	UNUSED	36	0.152	130	0.180		39	0.152	20	0.172		1	0.150	133	0.168		11	0.150	107	0.166		15	0.150	131	0.166		30	0.150	17	0.165		104	0.150	116	0.165		109	0.150	7	0.162		112	0.150	31	0.160		119	0.150	35	0.160		121	0.150	114	0.160		27	0.148	8	0.159		33	0.147	26	0.159		113	0.144	5	0.157		111	0.143	3	0.156		117	0.143	34	0.156		4	0.142	12	0.155		38	0.140	14	0.155		126	0.140	21	0.155		6	0.138	108	0.155		40	0.133	19	0.154		10	0.130	13	0.153		115	0.120	23	0.153			
136	0.141	UNUSED	19	0.093																																																																																																																																																																																																																																																																											
105	0.130	UNUSED	21	0.093																																																																																																																																																																																																																																																																											
20	0.124	UNUSED	35	0.093																																																																																																																																																																																																																																																																											
135	0.120		111	0.093																																																																																																																																																																																																																																																																											
34	0.110		23	0.092																																																																																																																																																																																																																																																																											
130	0.110		24	0.092																																																																																																																																																																																																																																																																											
116	0.105		36	0.092																																																																																																																																																																																																																																																																											
40	0.104		104	0.092																																																																																																																																																																																																																																																																											
131	0.102		113	0.092																																																																																																																																																																																																																																																																											
133	0.101		39	0.091																																																																																																																																																																																																																																																																											
11	0.100		1	0.090																																																																																																																																																																																																																																																																											
17	0.100		12	0.090																																																																																																																																																																																																																																																																											
107	0.100		15	0.090																																																																																																																																																																																																																																																																											
114	0.100		30	0.090																																																																																																																																																																																																																																																																											
124	0.100		38	0.090																																																																																																																																																																																																																																																																											
			109	0.090																																																																																																																																																																																																																																																																											
118	0.099		112	0.090																																																																																																																																																																																																																																																																											
26	0.097		13	0.089																																																																																																																																																																																																																																																																											
31	0.097		27	0.088																																																																																																																																																																																																																																																																											
3	0.096		117	0.088																																																																																																																																																																																																																																																																											
14	0.096		22	0.085																																																																																																																																																																																																																																																																											
7	0.095		121	0.085																																																																																																																																																																																																																																																																											
5	0.094		10	0.080																																																																																																																																																																																																																																																																											
8	0.094		126	0.080																																																																																																																																																																																																																																																																											
16	0.094		6	0.069																																																																																																																																																																																																																																																																											
33	0.094		115	0.040																																																																																																																																																																																																																																																																											
4	0.093																																																																																																																																																																																																																																																																														
124	0.200	UNUSED	16	0.152																																																																																																																																																																																																																																																																											
136	0.195	UNUSED	22	0.152																																																																																																																																																																																																																																																																											
105	0.190	UNUSED	24	0.152																																																																																																																																																																																																																																																																											
135	0.190	UNUSED	36	0.152																																																																																																																																																																																																																																																																											
130	0.180		39	0.152																																																																																																																																																																																																																																																																											
20	0.172		1	0.150																																																																																																																																																																																																																																																																											
133	0.168		11	0.150																																																																																																																																																																																																																																																																											
107	0.166		15	0.150																																																																																																																																																																																																																																																																											
131	0.166		30	0.150																																																																																																																																																																																																																																																																											
17	0.165		104	0.150																																																																																																																																																																																																																																																																											
116	0.165		109	0.150																																																																																																																																																																																																																																																																											
7	0.162		112	0.150																																																																																																																																																																																																																																																																											
31	0.160		119	0.150																																																																																																																																																																																																																																																																											
35	0.160		121	0.150																																																																																																																																																																																																																																																																											
114	0.160		27	0.148																																																																																																																																																																																																																																																																											
8	0.159		33	0.147																																																																																																																																																																																																																																																																											
26	0.159		113	0.144																																																																																																																																																																																																																																																																											
5	0.157		111	0.143																																																																																																																																																																																																																																																																											
3	0.156		117	0.143																																																																																																																																																																																																																																																																											
34	0.156		4	0.142																																																																																																																																																																																																																																																																											
12	0.155		38	0.140																																																																																																																																																																																																																																																																											
14	0.155		126	0.140																																																																																																																																																																																																																																																																											
21	0.155		6	0.138																																																																																																																																																																																																																																																																											
108	0.155		40	0.133																																																																																																																																																																																																																																																																											
19	0.154		10	0.130																																																																																																																																																																																																																																																																											
13	0.153		115	0.120																																																																																																																																																																																																																																																																											
23	0.153																																																																																																																																																																																																																																																																														
<p>MAGNESIUM SAMPLE NO.: G3 THEORETICAL VALUE 0.186 UNIT: µg Mg/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 53 ARITHMETIC MEAN VALUE: 0.184 MEDIAN: 0.184 STANDARD DEVIATION: 0.031 REL. ST. DEVIATION (%): 17.115</p> <p>RUN 2: NUMBER OF LABORATORIES: 51 ARITHMETIC MEAN VALUE: 0.185 MEDIAN: 0.184 STANDARD DEVIATION: 0.016 REL. ST. DEVIATION (%): 8.776</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>34</td><td>0.287</td><td>UNUSED</td><td>39</td><td>0.183</td></tr> <tr><td>135</td><td>0.230</td><td></td><td>116</td><td>0.183</td></tr> <tr><td>136</td><td>0.228</td><td></td><td>22</td><td>0.182</td></tr> <tr><td>105</td><td>0.220</td><td></td><td>33</td><td>0.182</td></tr> <tr><td>130</td><td>0.210</td><td></td><td>104</td><td>0.182</td></tr> <tr><td>17</td><td>0.200</td><td></td><td>1</td><td>0.180</td></tr> <tr><td>20</td><td>0.200</td><td></td><td>11</td><td>0.180</td></tr> <tr><td>124</td><td>0.200</td><td></td><td>15</td><td>0.180</td></tr> <tr><td>107</td><td>0.198</td><td></td><td>24</td><td>0.180</td></tr> <tr><td>133</td><td>0.198</td><td></td><td>30</td><td>0.180</td></tr> <tr><td>131</td><td>0.196</td><td></td><td>109</td><td>0.180</td></tr> <tr><td>31</td><td>0.194</td><td></td><td>112</td><td>0.180</td></tr> <tr><td>7</td><td>0.192</td><td></td><td>126</td><td>0.180</td></tr> <tr><td>35</td><td>0.192</td><td></td><td>27</td><td>0.176</td></tr> <tr><td>8</td><td>0.189</td><td></td><td>113</td><td>0.176</td></tr> <tr><td>26</td><td>0.189</td><td></td><td>6</td><td>0.171</td></tr> <tr><td>5</td><td>0.188</td><td></td><td>111</td><td>0.171</td></tr> <tr><td>14</td><td>0.188</td><td></td><td>38</td><td>0.170</td></tr> <tr><td>3</td><td>0.186</td><td></td><td>114</td><td>0.170</td></tr> <tr><td>12</td><td>0.186</td><td></td><td>117</td><td>0.170</td></tr> <tr><td>13</td><td>0.186</td><td></td><td>119</td><td>0.170</td></tr> <tr><td>21</td><td>0.186</td><td></td><td>4</td><td>0.167</td></tr> <tr><td>19</td><td>0.185</td><td></td><td>40</td><td>0.165</td></tr> <tr><td>118</td><td>0.185</td><td></td><td>10</td><td>0.160</td></tr> <tr><td>16</td><td>0.184</td><td></td><td>115</td><td>0.130</td></tr> <tr><td>23</td><td>0.184</td><td></td><td>121</td><td>0.018</td></tr> <tr><td>36</td><td>0.184</td><td></td><td></td><td></td></tr> </tbody> </table> <p>UNUSED: DATA UNUSED IN RUN 2</p>	34	0.287	UNUSED	39	0.183	135	0.230		116	0.183	136	0.228		22	0.182	105	0.220		33	0.182	130	0.210		104	0.182	17	0.200		1	0.180	20	0.200		11	0.180	124	0.200		15	0.180	107	0.198		24	0.180	133	0.198		30	0.180	131	0.196		109	0.180	31	0.194		112	0.180	7	0.192		126	0.180	35	0.192		27	0.176	8	0.189		113	0.176	26	0.189		6	0.171	5	0.188		111	0.171	14	0.188		38	0.170	3	0.186		114	0.170	12	0.186		117	0.170	13	0.186		119	0.170	21	0.186		4	0.167	19	0.185		40	0.165	118	0.185		10	0.160	16	0.184		115	0.130	23	0.184		121	0.018	36	0.184				<p>MAGNESIUM SAMPLE NO.: G4 THEORETICAL VALUE 0.108 UNIT: µg Mg/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 52 ARITHMETIC MEAN VALUE: 0.107 MEDIAN: 0.107 STANDARD DEVIATION: 0.014 REL. ST. DEVIATION (%): 12.739</p> <p>RUN 2: NUMBER OF LABORATORIES: 48 ARITHMETIC MEAN VALUE: 0.106 MEDIAN: 0.106 STANDARD DEVIATION: 0.008 REL. ST. DEVIATION (%): 7.685</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>119</td><td><</td><td>0.150</td><td></td><td></td></tr> <tr><td>105</td><td>0.150</td><td>UNUSED</td><td>118</td><td>0.107</td></tr> <tr><td>136</td><td>0.145</td><td>UNUSED</td><td>34</td><td>0.106</td></tr> <tr><td>20</td><td>0.137</td><td>UNUSED</td><td>39</td><td>0.106</td></tr> <tr><td>135</td><td>0.130</td><td></td><td>40</td><td>0.106</td></tr> <tr><td>131</td><td>0.124</td><td></td><td>104</td><td>0.106</td></tr> <tr><td>116</td><td>0.122</td><td></td><td>12</td><td>0.105</td></tr> <tr><td>130</td><td>0.120</td><td></td><td>36</td><td>0.105</td></tr> <tr><td>107</td><td>0.118</td><td></td><td>113</td><td>0.103</td></tr> <tr><td>17</td><td>0.113</td><td></td><td>14</td><td>0.102</td></tr> <tr><td>26</td><td>0.112</td><td></td><td>27</td><td>0.102</td></tr> <tr><td>31</td><td>0.112</td><td></td><td>4</td><td>0.101</td></tr> <tr><td>5</td><td>0.111</td><td></td><td>1</td><td>0.100</td></tr> <tr><td>11</td><td>0.110</td><td></td><td>30</td><td>0.100</td></tr> <tr><td>112</td><td>0.110</td><td></td><td>38</td><td>0.100</td></tr> <tr><td>133</td><td>0.110</td><td></td><td>109</td><td>0.100</td></tr> <tr><td>8</td><td>0.109</td><td></td><td>114</td><td>0.100</td></tr> <tr><td>13</td><td>0.109</td><td></td><td>117</td><td>0.100</td></tr> <tr><td>35</td><td>0.109</td><td></td><td>121</td><td>0.100</td></tr> <tr><td>3</td><td>0.108</td><td></td><td>124</td><td>0.100</td></tr> <tr><td>7</td><td>0.108</td><td></td><td>126</td><td>0.100</td></tr> <tr><td>16</td><td>0.108</td><td></td><td></td><td></td></tr> <tr><td>23</td><td>0.108</td><td></td><td>111</td><td>0.099</td></tr> <tr><td>33</td><td>0.108</td><td></td><td>22</td><td>0.093</td></tr> <tr><td>19</td><td>0.107</td><td></td><td>10</td><td>0.090</td></tr> <tr><td>21</td><td>0.107</td><td></td><td>6</td><td>0.084</td></tr> <tr><td>24</td><td>0.107</td><td></td><td>115</td><td>0.060</td></tr> </tbody> </table> <p>UNUSED: DATA UNUSED IN RUN 2</p>	119	<	0.150			105	0.150	UNUSED	118	0.107	136	0.145	UNUSED	34	0.106	20	0.137	UNUSED	39	0.106	135	0.130		40	0.106	131	0.124		104	0.106	116	0.122		12	0.105	130	0.120		36	0.105	107	0.118		113	0.103	17	0.113		14	0.102	26	0.112		27	0.102	31	0.112		4	0.101	5	0.111		1	0.100	11	0.110		30	0.100	112	0.110		38	0.100	133	0.110		109	0.100	8	0.109		114	0.100	13	0.109		117	0.100	35	0.109		121	0.100	3	0.108		124	0.100	7	0.108		126	0.100	16	0.108				23	0.108		111	0.099	33	0.108		22	0.093	19	0.107		10	0.090	21	0.107		6	0.084	24	0.107		115	0.060
34	0.287	UNUSED	39	0.183																																																																																																																																																																																																																																																																											
135	0.230		116	0.183																																																																																																																																																																																																																																																																											
136	0.228		22	0.182																																																																																																																																																																																																																																																																											
105	0.220		33	0.182																																																																																																																																																																																																																																																																											
130	0.210		104	0.182																																																																																																																																																																																																																																																																											
17	0.200		1	0.180																																																																																																																																																																																																																																																																											
20	0.200		11	0.180																																																																																																																																																																																																																																																																											
124	0.200		15	0.180																																																																																																																																																																																																																																																																											
107	0.198		24	0.180																																																																																																																																																																																																																																																																											
133	0.198		30	0.180																																																																																																																																																																																																																																																																											
131	0.196		109	0.180																																																																																																																																																																																																																																																																											
31	0.194		112	0.180																																																																																																																																																																																																																																																																											
7	0.192		126	0.180																																																																																																																																																																																																																																																																											
35	0.192		27	0.176																																																																																																																																																																																																																																																																											
8	0.189		113	0.176																																																																																																																																																																																																																																																																											
26	0.189		6	0.171																																																																																																																																																																																																																																																																											
5	0.188		111	0.171																																																																																																																																																																																																																																																																											
14	0.188		38	0.170																																																																																																																																																																																																																																																																											
3	0.186		114	0.170																																																																																																																																																																																																																																																																											
12	0.186		117	0.170																																																																																																																																																																																																																																																																											
13	0.186		119	0.170																																																																																																																																																																																																																																																																											
21	0.186		4	0.167																																																																																																																																																																																																																																																																											
19	0.185		40	0.165																																																																																																																																																																																																																																																																											
118	0.185		10	0.160																																																																																																																																																																																																																																																																											
16	0.184		115	0.130																																																																																																																																																																																																																																																																											
23	0.184		121	0.018																																																																																																																																																																																																																																																																											
36	0.184																																																																																																																																																																																																																																																																														
119	<	0.150																																																																																																																																																																																																																																																																													
105	0.150	UNUSED	118	0.107																																																																																																																																																																																																																																																																											
136	0.145	UNUSED	34	0.106																																																																																																																																																																																																																																																																											
20	0.137	UNUSED	39	0.106																																																																																																																																																																																																																																																																											
135	0.130		40	0.106																																																																																																																																																																																																																																																																											
131	0.124		104	0.106																																																																																																																																																																																																																																																																											
116	0.122		12	0.105																																																																																																																																																																																																																																																																											
130	0.120		36	0.105																																																																																																																																																																																																																																																																											
107	0.118		113	0.103																																																																																																																																																																																																																																																																											
17	0.113		14	0.102																																																																																																																																																																																																																																																																											
26	0.112		27	0.102																																																																																																																																																																																																																																																																											
31	0.112		4	0.101																																																																																																																																																																																																																																																																											
5	0.111		1	0.100																																																																																																																																																																																																																																																																											
11	0.110		30	0.100																																																																																																																																																																																																																																																																											
112	0.110		38	0.100																																																																																																																																																																																																																																																																											
133	0.110		109	0.100																																																																																																																																																																																																																																																																											
8	0.109		114	0.100																																																																																																																																																																																																																																																																											
13	0.109		117	0.100																																																																																																																																																																																																																																																																											
35	0.109		121	0.100																																																																																																																																																																																																																																																																											
3	0.108		124	0.100																																																																																																																																																																																																																																																																											
7	0.108		126	0.100																																																																																																																																																																																																																																																																											
16	0.108																																																																																																																																																																																																																																																																														
23	0.108		111	0.099																																																																																																																																																																																																																																																																											
33	0.108		22	0.093																																																																																																																																																																																																																																																																											
19	0.107		10	0.090																																																																																																																																																																																																																																																																											
21	0.107		6	0.084																																																																																																																																																																																																																																																																											
24	0.107		115	0.060																																																																																																																																																																																																																																																																											

Table 27: Analytical results for calcium in precipitations samples.

<p>CALCIUM SAMPLE NO.: G1 THEORETICAL VALUE 0.230 UNIT: µg Ca/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 53 ARITHMETIC MEAN VALUE: 0.245 MEDIAN: 0.230 STANDARD DEVIATION: 0.060 REL. ST. DEVIATION (%): 24.472</p> <p>RUN 2: NUMBER OF LABORATORIES: 50 ARITHMETIC MEAN VALUE: 0.234 MEDIAN: 0.228 STANDARD DEVIATION: 0.034 REL. ST. DEVIATION (%): 14.680</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>105</td><td>0.530</td><td>UNUSED</td><td>5</td><td>0.228</td></tr> <tr><td>130</td><td>0.400</td><td>UNUSED</td><td>31</td><td>0.228</td></tr> <tr><td>116</td><td>0.378</td><td>UNUSED</td><td>4</td><td>0.227</td></tr> <tr><td>114</td><td>0.340</td><td></td><td>23</td><td>0.227</td></tr> <tr><td>136</td><td>0.336</td><td></td><td>3</td><td>0.226</td></tr> <tr><td>118</td><td>0.310</td><td></td><td>16</td><td>0.226</td></tr> <tr><td>20</td><td>0.292</td><td></td><td>14</td><td>0.225</td></tr> <tr><td>131</td><td>0.272</td><td></td><td>24</td><td>0.223</td></tr> <tr><td>121</td><td>0.270</td><td></td><td>111</td><td>0.223</td></tr> <tr><td>17</td><td>0.260</td><td></td><td>13</td><td>0.222</td></tr> <tr><td>133</td><td>0.258</td><td></td><td>26</td><td>0.221</td></tr> <tr><td>6</td><td>0.256</td><td></td><td>15</td><td>0.220</td></tr> <tr><td>19</td><td>0.253</td><td></td><td>113</td><td>0.220</td></tr> <tr><td>30</td><td>0.250</td><td></td><td>119</td><td>0.220</td></tr> <tr><td>115</td><td>0.250</td><td></td><td>107</td><td>0.218</td></tr> <tr><td>21</td><td>0.240</td><td></td><td>1</td><td>0.210</td></tr> <tr><td>34</td><td>0.240</td><td></td><td>12</td><td>0.210</td></tr> <tr><td>109</td><td>0.240</td><td></td><td>135</td><td>0.210</td></tr> <tr><td>112</td><td>0.240</td><td></td><td>104</td><td>0.209</td></tr> <tr><td>8</td><td>0.239</td><td></td><td>33</td><td>0.207</td></tr> <tr><td>7</td><td>0.236</td><td></td><td>22</td><td>0.205</td></tr> <tr><td>35</td><td>0.236</td><td></td><td>124</td><td>0.200</td></tr> <tr><td>40</td><td>0.236</td><td></td><td>117</td><td>0.190</td></tr> <tr><td>36</td><td>0.231</td><td></td><td>10</td><td>0.180</td></tr> <tr><td>39</td><td>0.231</td><td></td><td>38</td><td>0.170</td></tr> <tr><td>11</td><td>0.230</td><td></td><td>126</td><td>0.160</td></tr> <tr><td>27</td><td>0.230</td><td></td><td></td><td></td></tr> </tbody> </table> <p>UNUSED: DATA UNUSED IN RUN 2</p>	105	0.530	UNUSED	5	0.228	130	0.400	UNUSED	31	0.228	116	0.378	UNUSED	4	0.227	114	0.340		23	0.227	136	0.336		3	0.226	118	0.310		16	0.226	20	0.292		14	0.225	131	0.272		24	0.223	121	0.270		111	0.223	17	0.260		13	0.222	133	0.258		26	0.221	6	0.256		15	0.220	19	0.253		113	0.220	30	0.250		119	0.220	115	0.250		107	0.218	21	0.240		1	0.210	34	0.240		12	0.210	109	0.240		135	0.210	112	0.240		104	0.209	8	0.239		33	0.207	7	0.236		22	0.205	35	0.236		124	0.200	40	0.236		117	0.190	36	0.231		10	0.180	39	0.231		38	0.170	11	0.230		126	0.160	27	0.230				<p>CALCIUM SAMPLE NO.: G2 THEORETICAL VALUE 0.335 UNIT: µg Ca/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 53 ARITHMETIC MEAN VALUE: 0.364 MEDIAN: 0.330 STANDARD DEVIATION: 0.169 REL. ST. DEVIATION (%): 46.520</p> <p>RUN 2: NUMBER OF LABORATORIES: 51 ARITHMETIC MEAN VALUE: 0.332 MEDIAN: 0.330 STANDARD DEVIATION: 0.047 REL. ST. DEVIATION (%): 14.266</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>34</td><td>1.310</td><td>UNUSED</td><td>105</td><td>0.330</td></tr> <tr><td>115</td><td>1.020</td><td>UNUSED</td><td>7</td><td>0.328</td></tr> <tr><td>130</td><td>0.470</td><td></td><td>16</td><td>0.328</td></tr> <tr><td>116</td><td>0.455</td><td></td><td>23</td><td>0.325</td></tr> <tr><td>22</td><td>0.452</td><td></td><td>3</td><td>0.323</td></tr> <tr><td>136</td><td>0.437</td><td></td><td>26</td><td>0.321</td></tr> <tr><td>6</td><td>0.402</td><td></td><td>4</td><td>0.320</td></tr> <tr><td>17</td><td>0.395</td><td></td><td>11</td><td>0.320</td></tr> <tr><td>13</td><td>0.361</td><td></td><td>119</td><td>0.320</td></tr> <tr><td>109</td><td>0.360</td><td></td><td>24</td><td>0.317</td></tr> <tr><td>112</td><td>0.350</td><td></td><td>1</td><td>0.310</td></tr> <tr><td>118</td><td>0.350</td><td></td><td>12</td><td>0.310</td></tr> <tr><td>121</td><td>0.350</td><td></td><td>133</td><td>0.306</td></tr> <tr><td>19</td><td>0.349</td><td></td><td>111</td><td>0.305</td></tr> <tr><td>35</td><td>0.348</td><td></td><td>15</td><td>0.300</td></tr> <tr><td>8</td><td>0.344</td><td></td><td>114</td><td>0.300</td></tr> <tr><td>39</td><td>0.341</td><td></td><td>124</td><td>0.300</td></tr> <tr><td>20</td><td>0.340</td><td></td><td>135</td><td>0.300</td></tr> <tr><td>21</td><td>0.339</td><td></td><td>104</td><td>0.299</td></tr> <tr><td>36</td><td>0.336</td><td></td><td>40</td><td>0.296</td></tr> <tr><td>5</td><td>0.334</td><td></td><td>117</td><td>0.294</td></tr> <tr><td>27</td><td>0.334</td><td></td><td>113</td><td>0.280</td></tr> <tr><td>14</td><td>0.333</td><td></td><td>33</td><td>0.279</td></tr> <tr><td>31</td><td>0.333</td><td></td><td>10</td><td>0.250</td></tr> <tr><td>107</td><td>0.333</td><td></td><td>38</td><td>0.240</td></tr> <tr><td>131</td><td>0.331</td><td></td><td>126</td><td>0.240</td></tr> <tr><td>30</td><td>0.330</td><td></td><td></td><td></td></tr> </tbody> </table> <p>UNUSED: DATA UNUSED IN RUN 2</p>	34	1.310	UNUSED	105	0.330	115	1.020	UNUSED	7	0.328	130	0.470		16	0.328	116	0.455		23	0.325	22	0.452		3	0.323	136	0.437		26	0.321	6	0.402		4	0.320	17	0.395		11	0.320	13	0.361		119	0.320	109	0.360		24	0.317	112	0.350		1	0.310	118	0.350		12	0.310	121	0.350		133	0.306	19	0.349		111	0.305	35	0.348		15	0.300	8	0.344		114	0.300	39	0.341		124	0.300	20	0.340		135	0.300	21	0.339		104	0.299	36	0.336		40	0.296	5	0.334		117	0.294	27	0.334		113	0.280	14	0.333		33	0.279	31	0.333		10	0.250	107	0.333		38	0.240	131	0.331		126	0.240	30	0.330			
105	0.530	UNUSED	5	0.228																																																																																																																																																																																																																																																																											
130	0.400	UNUSED	31	0.228																																																																																																																																																																																																																																																																											
116	0.378	UNUSED	4	0.227																																																																																																																																																																																																																																																																											
114	0.340		23	0.227																																																																																																																																																																																																																																																																											
136	0.336		3	0.226																																																																																																																																																																																																																																																																											
118	0.310		16	0.226																																																																																																																																																																																																																																																																											
20	0.292		14	0.225																																																																																																																																																																																																																																																																											
131	0.272		24	0.223																																																																																																																																																																																																																																																																											
121	0.270		111	0.223																																																																																																																																																																																																																																																																											
17	0.260		13	0.222																																																																																																																																																																																																																																																																											
133	0.258		26	0.221																																																																																																																																																																																																																																																																											
6	0.256		15	0.220																																																																																																																																																																																																																																																																											
19	0.253		113	0.220																																																																																																																																																																																																																																																																											
30	0.250		119	0.220																																																																																																																																																																																																																																																																											
115	0.250		107	0.218																																																																																																																																																																																																																																																																											
21	0.240		1	0.210																																																																																																																																																																																																																																																																											
34	0.240		12	0.210																																																																																																																																																																																																																																																																											
109	0.240		135	0.210																																																																																																																																																																																																																																																																											
112	0.240		104	0.209																																																																																																																																																																																																																																																																											
8	0.239		33	0.207																																																																																																																																																																																																																																																																											
7	0.236		22	0.205																																																																																																																																																																																																																																																																											
35	0.236		124	0.200																																																																																																																																																																																																																																																																											
40	0.236		117	0.190																																																																																																																																																																																																																																																																											
36	0.231		10	0.180																																																																																																																																																																																																																																																																											
39	0.231		38	0.170																																																																																																																																																																																																																																																																											
11	0.230		126	0.160																																																																																																																																																																																																																																																																											
27	0.230																																																																																																																																																																																																																																																																														
34	1.310	UNUSED	105	0.330																																																																																																																																																																																																																																																																											
115	1.020	UNUSED	7	0.328																																																																																																																																																																																																																																																																											
130	0.470		16	0.328																																																																																																																																																																																																																																																																											
116	0.455		23	0.325																																																																																																																																																																																																																																																																											
22	0.452		3	0.323																																																																																																																																																																																																																																																																											
136	0.437		26	0.321																																																																																																																																																																																																																																																																											
6	0.402		4	0.320																																																																																																																																																																																																																																																																											
17	0.395		11	0.320																																																																																																																																																																																																																																																																											
13	0.361		119	0.320																																																																																																																																																																																																																																																																											
109	0.360		24	0.317																																																																																																																																																																																																																																																																											
112	0.350		1	0.310																																																																																																																																																																																																																																																																											
118	0.350		12	0.310																																																																																																																																																																																																																																																																											
121	0.350		133	0.306																																																																																																																																																																																																																																																																											
19	0.349		111	0.305																																																																																																																																																																																																																																																																											
35	0.348		15	0.300																																																																																																																																																																																																																																																																											
8	0.344		114	0.300																																																																																																																																																																																																																																																																											
39	0.341		124	0.300																																																																																																																																																																																																																																																																											
20	0.340		135	0.300																																																																																																																																																																																																																																																																											
21	0.339		104	0.299																																																																																																																																																																																																																																																																											
36	0.336		40	0.296																																																																																																																																																																																																																																																																											
5	0.334		117	0.294																																																																																																																																																																																																																																																																											
27	0.334		113	0.280																																																																																																																																																																																																																																																																											
14	0.333		33	0.279																																																																																																																																																																																																																																																																											
31	0.333		10	0.250																																																																																																																																																																																																																																																																											
107	0.333		38	0.240																																																																																																																																																																																																																																																																											
131	0.331		126	0.240																																																																																																																																																																																																																																																																											
30	0.330																																																																																																																																																																																																																																																																														
<p>CALCIUM SAMPLE NO.: G3 THEORETICAL VALUE 0.383 UNIT: µg Ca/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 53 ARITHMETIC MEAN VALUE: 0.381 MEDIAN: 0.378 STANDARD DEVIATION: 0.046 REL. ST. DEVIATION (%): 12.030</p> <p>RUN 2: NUMBER OF LABORATORIES: 49 ARITHMETIC MEAN VALUE: 0.371 MEDIAN: 0.375 STANDARD DEVIATION: 0.031 REL. ST. DEVIATION (%): 8.411</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>105</td><td>0.510</td><td>UNUSED</td><td>21</td><td>0.376</td></tr> <tr><td>130</td><td>0.510</td><td>UNUSED</td><td>16</td><td>0.375</td></tr> <tr><td>22</td><td>0.503</td><td>UNUSED</td><td>7</td><td>0.371</td></tr> <tr><td>136</td><td>0.479</td><td>UNUSED</td><td>15</td><td>0.370</td></tr> <tr><td>17</td><td>0.455</td><td></td><td>30</td><td>0.370</td></tr> <tr><td>6</td><td>0.450</td><td></td><td>119</td><td>0.370</td></tr> <tr><td>34</td><td>0.427</td><td></td><td>24</td><td>0.368</td></tr> <tr><td>121</td><td>0.400</td><td></td><td>3</td><td>0.367</td></tr> <tr><td>124</td><td>0.400</td><td></td><td>26</td><td>0.365</td></tr> <tr><td>19</td><td>0.393</td><td></td><td>4</td><td>0.363</td></tr> <tr><td>35</td><td>0.393</td><td></td><td>1</td><td>0.360</td></tr> <tr><td>14</td><td>0.392</td><td></td><td>12</td><td>0.360</td></tr> <tr><td>8</td><td>0.391</td><td></td><td>114</td><td>0.360</td></tr> <tr><td>39</td><td>0.391</td><td></td><td>133</td><td>0.357</td></tr> <tr><td>109</td><td>0.390</td><td></td><td>40</td><td>0.356</td></tr> <tr><td>112</td><td>0.390</td><td></td><td>115</td><td>0.350</td></tr> <tr><td>118</td><td>0.390</td><td></td><td>131</td><td>0.350</td></tr> <tr><td>5</td><td>0.389</td><td></td><td>111</td><td>0.349</td></tr> <tr><td>13</td><td>0.384</td><td></td><td>104</td><td>0.346</td></tr> <tr><td>27</td><td>0.381</td><td></td><td>135</td><td>0.340</td></tr> <tr><td>36</td><td>0.381</td><td></td><td>117</td><td>0.334</td></tr> <tr><td>107</td><td>0.381</td><td></td><td>113</td><td>0.330</td></tr> <tr><td>116</td><td>0.381</td><td></td><td>33</td><td>0.327</td></tr> <tr><td>11</td><td>0.380</td><td></td><td>126</td><td>0.310</td></tr> <tr><td>20</td><td>0.380</td><td></td><td>38</td><td>0.300</td></tr> <tr><td>31</td><td>0.380</td><td></td><td>10</td><td>0.290</td></tr> <tr><td>23</td><td>0.378</td><td></td><td></td><td></td></tr> </tbody> </table> <p>UNUSED: DATA UNUSED IN RUN 2</p>	105	0.510	UNUSED	21	0.376	130	0.510	UNUSED	16	0.375	22	0.503	UNUSED	7	0.371	136	0.479	UNUSED	15	0.370	17	0.455		30	0.370	6	0.450		119	0.370	34	0.427		24	0.368	121	0.400		3	0.367	124	0.400		26	0.365	19	0.393		4	0.363	35	0.393		1	0.360	14	0.392		12	0.360	8	0.391		114	0.360	39	0.391		133	0.357	109	0.390		40	0.356	112	0.390		115	0.350	118	0.390		131	0.350	5	0.389		111	0.349	13	0.384		104	0.346	27	0.381		135	0.340	36	0.381		117	0.334	107	0.381		113	0.330	116	0.381		33	0.327	11	0.380		126	0.310	20	0.380		38	0.300	31	0.380		10	0.290	23	0.378				<p>CALCIUM SAMPLE NO.: G4 THEORETICAL VALUE 0.268 UNIT: µg Ca/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 53 ARITHMETIC MEAN VALUE: 0.278 MEDIAN: 0.265 STANDARD DEVIATION: 0.066 REL. ST. DEVIATION (%): 23.674</p> <p>RUN 2: NUMBER OF LABORATORIES: 51 ARITHMETIC MEAN VALUE: 0.268 MEDIAN: 0.265 STANDARD DEVIATION: 0.035 REL. ST. DEVIATION (%): 13.211</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>34</td><td>0.635</td><td>UNUSED</td><td>27</td><td>0.265</td></tr> <tr><td>105</td><td>0.450</td><td>UNUSED</td><td>31</td><td>0.263</td></tr> <tr><td>130</td><td>0.400</td><td></td><td>16</td><td>0.262</td></tr> <tr><td>136</td><td>0.357</td><td></td><td>21</td><td>0.262</td></tr> <tr><td>133</td><td>0.340</td><td></td><td>11</td><td>0.260</td></tr> <tr><td>6</td><td>0.317</td><td></td><td>30</td><td>0.260</td></tr> <tr><td>20</td><td>0.314</td><td></td><td>109</td><td>0.260</td></tr> <tr><td>17</td><td>0.305</td><td></td><td>114</td><td>0.260</td></tr> <tr><td>124</td><td>0.300</td><td></td><td>107</td><td>0.259</td></tr> <tr><td>22</td><td>0.294</td><td></td><td>3</td><td>0.256</td></tr> <tr><td>116</td><td>0.290</td><td></td><td>26</td><td>0.252</td></tr> <tr><td>118</td><td>0.290</td><td></td><td>4</td><td>0.250</td></tr> <tr><td>131</td><td>0.288</td><td></td><td>12</td><td>0.250</td></tr> <tr><td>19</td><td>0.284</td><td></td><td>111</td><td>0.244</td></tr> <tr><td>121</td><td>0.280</td><td></td><td>1</td><td>0.240</td></tr> <tr><td>8</td><td>0.273</td><td></td><td>104</td><td>0.240</td></tr> <tr><td>35</td><td>0.273</td><td></td><td>115</td><td>0.240</td></tr> <tr><td>39</td><td>0.272</td><td></td><td>119</td><td>0.240</td></tr> <tr><td>7</td><td>0.270</td><td></td><td>126</td><td>0.240</td></tr> <tr><td>15</td><td>0.270</td><td></td><td>135</td><td>0.240</td></tr> <tr><td>112</td><td>0.270</td><td></td><td>40</td><td>0.236</td></tr> <tr><td>13</td><td>0.268</td><td></td><td>117</td><td>0.232</td></tr> <tr><td>14</td><td>0.267</td><td></td><td>113</td><td>0.230</td></tr> <tr><td>5</td><td>0.266</td><td></td><td>33</td><td>0.218</td></tr> <tr><td>23</td><td>0.266</td><td></td><td>38</td><td>0.210</td></tr> <tr><td>36</td><td>0.266</td><td></td><td>10</td><td>0.190</td></tr> <tr><td>24</td><td>0.265</td><td></td><td></td><td></td></tr> </tbody> </table> <p>UNUSED: DATA UNUSED IN RUN 2</p>	34	0.635	UNUSED	27	0.265	105	0.450	UNUSED	31	0.263	130	0.400		16	0.262	136	0.357		21	0.262	133	0.340		11	0.260	6	0.317		30	0.260	20	0.314		109	0.260	17	0.305		114	0.260	124	0.300		107	0.259	22	0.294		3	0.256	116	0.290		26	0.252	118	0.290		4	0.250	131	0.288		12	0.250	19	0.284		111	0.244	121	0.280		1	0.240	8	0.273		104	0.240	35	0.273		115	0.240	39	0.272		119	0.240	7	0.270		126	0.240	15	0.270		135	0.240	112	0.270		40	0.236	13	0.268		117	0.232	14	0.267		113	0.230	5	0.266		33	0.218	23	0.266		38	0.210	36	0.266		10	0.190	24	0.265			
105	0.510	UNUSED	21	0.376																																																																																																																																																																																																																																																																											
130	0.510	UNUSED	16	0.375																																																																																																																																																																																																																																																																											
22	0.503	UNUSED	7	0.371																																																																																																																																																																																																																																																																											
136	0.479	UNUSED	15	0.370																																																																																																																																																																																																																																																																											
17	0.455		30	0.370																																																																																																																																																																																																																																																																											
6	0.450		119	0.370																																																																																																																																																																																																																																																																											
34	0.427		24	0.368																																																																																																																																																																																																																																																																											
121	0.400		3	0.367																																																																																																																																																																																																																																																																											
124	0.400		26	0.365																																																																																																																																																																																																																																																																											
19	0.393		4	0.363																																																																																																																																																																																																																																																																											
35	0.393		1	0.360																																																																																																																																																																																																																																																																											
14	0.392		12	0.360																																																																																																																																																																																																																																																																											
8	0.391		114	0.360																																																																																																																																																																																																																																																																											
39	0.391		133	0.357																																																																																																																																																																																																																																																																											
109	0.390		40	0.356																																																																																																																																																																																																																																																																											
112	0.390		115	0.350																																																																																																																																																																																																																																																																											
118	0.390		131	0.350																																																																																																																																																																																																																																																																											
5	0.389		111	0.349																																																																																																																																																																																																																																																																											
13	0.384		104	0.346																																																																																																																																																																																																																																																																											
27	0.381		135	0.340																																																																																																																																																																																																																																																																											
36	0.381		117	0.334																																																																																																																																																																																																																																																																											
107	0.381		113	0.330																																																																																																																																																																																																																																																																											
116	0.381		33	0.327																																																																																																																																																																																																																																																																											
11	0.380		126	0.310																																																																																																																																																																																																																																																																											
20	0.380		38	0.300																																																																																																																																																																																																																																																																											
31	0.380		10	0.290																																																																																																																																																																																																																																																																											
23	0.378																																																																																																																																																																																																																																																																														
34	0.635	UNUSED	27	0.265																																																																																																																																																																																																																																																																											
105	0.450	UNUSED	31	0.263																																																																																																																																																																																																																																																																											
130	0.400		16	0.262																																																																																																																																																																																																																																																																											
136	0.357		21	0.262																																																																																																																																																																																																																																																																											
133	0.340		11	0.260																																																																																																																																																																																																																																																																											
6	0.317		30	0.260																																																																																																																																																																																																																																																																											
20	0.314		109	0.260																																																																																																																																																																																																																																																																											
17	0.305		114	0.260																																																																																																																																																																																																																																																																											
124	0.300		107	0.259																																																																																																																																																																																																																																																																											
22	0.294		3	0.256																																																																																																																																																																																																																																																																											
116	0.290		26	0.252																																																																																																																																																																																																																																																																											
118	0.290		4	0.250																																																																																																																																																																																																																																																																											
131	0.288		12	0.250																																																																																																																																																																																																																																																																											
19	0.284		111	0.244																																																																																																																																																																																																																																																																											
121	0.280		1	0.240																																																																																																																																																																																																																																																																											
8	0.273		104	0.240																																																																																																																																																																																																																																																																											
35	0.273		115	0.240																																																																																																																																																																																																																																																																											
39	0.272		119	0.240																																																																																																																																																																																																																																																																											
7	0.270		126	0.240																																																																																																																																																																																																																																																																											
15	0.270		135	0.240																																																																																																																																																																																																																																																																											
112	0.270		40	0.236																																																																																																																																																																																																																																																																											
13	0.268		117	0.232																																																																																																																																																																																																																																																																											
14	0.267		113	0.230																																																																																																																																																																																																																																																																											
5	0.266		33	0.218																																																																																																																																																																																																																																																																											
23	0.266		38	0.210																																																																																																																																																																																																																																																																											
36	0.266		10	0.190																																																																																																																																																																																																																																																																											
24	0.265																																																																																																																																																																																																																																																																														

Table 28: Analytical results for potassium in precipitations samples.

<p>POTASSIUM SAMPLE NO.: G1 THEORETICAL VALUE 0.102 UNIT: µg K/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 52 ARITHMETIC MEAN VALUE: 0.119 MEDIAN: 0.100 STANDARD DEVIATION: 0.079 REL. ST. DEVIATION (%): 66.173</p> <p>RUN 2: NUMBER OF LABORATORIES: 50 ARITHMETIC MEAN VALUE: 0.106 MEDIAN: 0.100 STANDARD DEVIATION: 0.028 REL. ST. DEVIATION (%): 26.137</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>133</td><td>0.600</td><td>UNUSED</td><td>124</td><td>0.100</td></tr> <tr><td>116</td><td>0.318</td><td>UNUSED</td><td>135</td><td>0.100</td></tr> <tr><td>17</td><td>0.193</td><td></td><td>5</td><td>0.099</td></tr> <tr><td>115</td><td>0.190</td><td></td><td>31</td><td>0.099</td></tr> <tr><td>136</td><td>0.186</td><td></td><td>36</td><td>0.099</td></tr> <tr><td>119</td><td>< 0.150</td><td></td><td></td><td></td></tr> <tr><td>118</td><td>0.140</td><td></td><td>3</td><td>0.098</td></tr> <tr><td>121</td><td>0.140</td><td></td><td>7</td><td>0.098</td></tr> <tr><td>113</td><td>0.130</td><td></td><td>117</td><td>0.098</td></tr> <tr><td>34</td><td>0.125</td><td></td><td>27</td><td>0.097</td></tr> <tr><td>11</td><td>0.120</td><td></td><td>14</td><td>0.096</td></tr> <tr><td>114</td><td>0.120</td><td></td><td>21</td><td>0.095</td></tr> <tr><td>126</td><td>0.120</td><td></td><td>22</td><td>0.095</td></tr> <tr><td>130</td><td>0.120</td><td></td><td>24</td><td>0.095</td></tr> <tr><td>131</td><td>0.118</td><td></td><td>4</td><td>0.093</td></tr> <tr><td>26</td><td>0.111</td><td></td><td>13</td><td>0.092</td></tr> <tr><td>15</td><td>0.110</td><td></td><td>35</td><td>0.092</td></tr> <tr><td>33</td><td>0.110</td><td></td><td>6</td><td>0.090</td></tr> <tr><td>38</td><td>0.110</td><td></td><td>12</td><td>0.090</td></tr> <tr><td>109</td><td>0.110</td><td></td><td>30</td><td>0.090</td></tr> <tr><td>8</td><td>0.101</td><td></td><td>23</td><td>0.089</td></tr> <tr><td>39</td><td>0.101</td><td></td><td>111</td><td>0.088</td></tr> <tr><td>1</td><td>0.100</td><td></td><td>10</td><td>0.084</td></tr> <tr><td>16</td><td>0.100</td><td></td><td>20</td><td>0.084</td></tr> <tr><td>19</td><td>0.100</td><td></td><td>105</td><td>0.060</td></tr> <tr><td>104</td><td>0.100</td><td></td><td>40</td><td>0.053</td></tr> <tr><td>112</td><td>0.100</td><td></td><td>107</td><td>0.051</td></tr> </tbody> </table> <p>UNUSED: DATA UNUSED IN RUN 2</p>	133	0.600	UNUSED	124	0.100	116	0.318	UNUSED	135	0.100	17	0.193		5	0.099	115	0.190		31	0.099	136	0.186		36	0.099	119	< 0.150				118	0.140		3	0.098	121	0.140		7	0.098	113	0.130		117	0.098	34	0.125		27	0.097	11	0.120		14	0.096	114	0.120		21	0.095	126	0.120		22	0.095	130	0.120		24	0.095	131	0.118		4	0.093	26	0.111		13	0.092	15	0.110		35	0.092	33	0.110		6	0.090	38	0.110		12	0.090	109	0.110		30	0.090	8	0.101		23	0.089	39	0.101		111	0.088	1	0.100		10	0.084	16	0.100		20	0.084	19	0.100		105	0.060	104	0.100		40	0.053	112	0.100		107	0.051	<p>POTASSIUM SAMPLE NO.: G2 THEORETICAL VALUE 0.127 UNIT: µg K/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 52 ARITHMETIC MEAN VALUE: 0.135 MEDIAN: 0.122 STANDARD DEVIATION: 0.055 REL. ST. DEVIATION (%): 40.525</p> <p>RUN 2: NUMBER OF LABORATORIES: 51 ARITHMETIC MEAN VALUE: 0.128 MEDIAN: 0.122 STANDARD DEVIATION: 0.030 REL. ST. DEVIATION (%): 23.502</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>116</td><td>0.458</td><td>UNUSED</td><td>27</td><td>0.122</td></tr> <tr><td>17</td><td>0.215</td><td></td><td>35</td><td>0.122</td></tr> <tr><td>121</td><td>0.210</td><td></td><td>1</td><td>0.120</td></tr> <tr><td>133</td><td>0.200</td><td></td><td>12</td><td>0.120</td></tr> <tr><td>136</td><td>0.198</td><td></td><td>33</td><td>0.120</td></tr> <tr><td>126</td><td>0.180</td><td></td><td>113</td><td>0.120</td></tr> <tr><td>131</td><td>0.169</td><td></td><td>5</td><td>0.117</td></tr> <tr><td>119</td><td>< 0.150</td><td></td><td></td><td></td></tr> <tr><td>34</td><td>0.150</td><td></td><td>20</td><td>0.117</td></tr> <tr><td>115</td><td>0.150</td><td></td><td>24</td><td>0.117</td></tr> <tr><td>118</td><td>0.150</td><td></td><td>117</td><td>0.117</td></tr> <tr><td>22</td><td>0.140</td><td></td><td>13</td><td>0.116</td></tr> <tr><td>109</td><td>0.140</td><td></td><td>14</td><td>0.115</td></tr> <tr><td>114</td><td>0.140</td><td></td><td>16</td><td>0.115</td></tr> <tr><td>26</td><td>0.137</td><td></td><td>104</td><td>0.115</td></tr> <tr><td>31</td><td>0.131</td><td></td><td>4</td><td>0.113</td></tr> <tr><td>15</td><td>0.130</td><td></td><td>6</td><td>0.111</td></tr> <tr><td>38</td><td>0.130</td><td></td><td>23</td><td>0.111</td></tr> <tr><td>112</td><td>0.130</td><td></td><td>11</td><td>0.110</td></tr> <tr><td>130</td><td>0.130</td><td></td><td>30</td><td>0.110</td></tr> <tr><td>3</td><td>0.129</td><td></td><td>135</td><td>0.110</td></tr> <tr><td>36</td><td>0.128</td><td></td><td>111</td><td>0.105</td></tr> <tr><td>8</td><td>0.127</td><td></td><td>124</td><td>0.100</td></tr> <tr><td>39</td><td>0.126</td><td></td><td>10</td><td>0.098</td></tr> <tr><td>7</td><td>0.124</td><td></td><td>105</td><td>0.080</td></tr> <tr><td>19</td><td>0.123</td><td></td><td>107</td><td>0.077</td></tr> <tr><td>21</td><td>0.122</td><td></td><td>40</td><td>0.062</td></tr> </tbody> </table> <p>UNUSED: DATA UNUSED IN RUN 2</p>	116	0.458	UNUSED	27	0.122	17	0.215		35	0.122	121	0.210		1	0.120	133	0.200		12	0.120	136	0.198		33	0.120	126	0.180		113	0.120	131	0.169		5	0.117	119	< 0.150				34	0.150		20	0.117	115	0.150		24	0.117	118	0.150		117	0.117	22	0.140		13	0.116	109	0.140		14	0.115	114	0.140		16	0.115	26	0.137		104	0.115	31	0.131		4	0.113	15	0.130		6	0.111	38	0.130		23	0.111	112	0.130		11	0.110	130	0.130		30	0.110	3	0.129		135	0.110	36	0.128		111	0.105	8	0.127		124	0.100	39	0.126		10	0.098	7	0.124		105	0.080	19	0.123		107	0.077	21	0.122		40	0.062
133	0.600	UNUSED	124	0.100																																																																																																																																																																																																																																																																											
116	0.318	UNUSED	135	0.100																																																																																																																																																																																																																																																																											
17	0.193		5	0.099																																																																																																																																																																																																																																																																											
115	0.190		31	0.099																																																																																																																																																																																																																																																																											
136	0.186		36	0.099																																																																																																																																																																																																																																																																											
119	< 0.150																																																																																																																																																																																																																																																																														
118	0.140		3	0.098																																																																																																																																																																																																																																																																											
121	0.140		7	0.098																																																																																																																																																																																																																																																																											
113	0.130		117	0.098																																																																																																																																																																																																																																																																											
34	0.125		27	0.097																																																																																																																																																																																																																																																																											
11	0.120		14	0.096																																																																																																																																																																																																																																																																											
114	0.120		21	0.095																																																																																																																																																																																																																																																																											
126	0.120		22	0.095																																																																																																																																																																																																																																																																											
130	0.120		24	0.095																																																																																																																																																																																																																																																																											
131	0.118		4	0.093																																																																																																																																																																																																																																																																											
26	0.111		13	0.092																																																																																																																																																																																																																																																																											
15	0.110		35	0.092																																																																																																																																																																																																																																																																											
33	0.110		6	0.090																																																																																																																																																																																																																																																																											
38	0.110		12	0.090																																																																																																																																																																																																																																																																											
109	0.110		30	0.090																																																																																																																																																																																																																																																																											
8	0.101		23	0.089																																																																																																																																																																																																																																																																											
39	0.101		111	0.088																																																																																																																																																																																																																																																																											
1	0.100		10	0.084																																																																																																																																																																																																																																																																											
16	0.100		20	0.084																																																																																																																																																																																																																																																																											
19	0.100		105	0.060																																																																																																																																																																																																																																																																											
104	0.100		40	0.053																																																																																																																																																																																																																																																																											
112	0.100		107	0.051																																																																																																																																																																																																																																																																											
116	0.458	UNUSED	27	0.122																																																																																																																																																																																																																																																																											
17	0.215		35	0.122																																																																																																																																																																																																																																																																											
121	0.210		1	0.120																																																																																																																																																																																																																																																																											
133	0.200		12	0.120																																																																																																																																																																																																																																																																											
136	0.198		33	0.120																																																																																																																																																																																																																																																																											
126	0.180		113	0.120																																																																																																																																																																																																																																																																											
131	0.169		5	0.117																																																																																																																																																																																																																																																																											
119	< 0.150																																																																																																																																																																																																																																																																														
34	0.150		20	0.117																																																																																																																																																																																																																																																																											
115	0.150		24	0.117																																																																																																																																																																																																																																																																											
118	0.150		117	0.117																																																																																																																																																																																																																																																																											
22	0.140		13	0.116																																																																																																																																																																																																																																																																											
109	0.140		14	0.115																																																																																																																																																																																																																																																																											
114	0.140		16	0.115																																																																																																																																																																																																																																																																											
26	0.137		104	0.115																																																																																																																																																																																																																																																																											
31	0.131		4	0.113																																																																																																																																																																																																																																																																											
15	0.130		6	0.111																																																																																																																																																																																																																																																																											
38	0.130		23	0.111																																																																																																																																																																																																																																																																											
112	0.130		11	0.110																																																																																																																																																																																																																																																																											
130	0.130		30	0.110																																																																																																																																																																																																																																																																											
3	0.129		135	0.110																																																																																																																																																																																																																																																																											
36	0.128		111	0.105																																																																																																																																																																																																																																																																											
8	0.127		124	0.100																																																																																																																																																																																																																																																																											
39	0.126		10	0.098																																																																																																																																																																																																																																																																											
7	0.124		105	0.080																																																																																																																																																																																																																																																																											
19	0.123		107	0.077																																																																																																																																																																																																																																																																											
21	0.122		40	0.062																																																																																																																																																																																																																																																																											
<p>POTASSIUM SAMPLE NO.: G3 THEORETICAL VALUE 0.280 UNIT: µg K/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 53 ARITHMETIC MEAN VALUE: 0.288 MEDIAN: 0.270 STANDARD DEVIATION: 0.099 REL. ST. DEVIATION (%): 34.485</p> <p>RUN 2: NUMBER OF LABORATORIES: 51 ARITHMETIC MEAN VALUE: 0.272 MEDIAN: 0.270 STANDARD DEVIATION: 0.038 REL. ST. DEVIATION (%): 13.980</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>133</td><td>0.900</td><td>UNUSED</td><td>109</td><td>0.270</td></tr> <tr><td>116</td><td>0.520</td><td>UNUSED</td><td>130</td><td>0.270</td></tr> <tr><td>126</td><td>0.370</td><td></td><td>13</td><td>0.269</td></tr> <tr><td>17</td><td>0.360</td><td></td><td>27</td><td>0.268</td></tr> <tr><td>136</td><td>0.347</td><td></td><td>117</td><td>0.267</td></tr> <tr><td>34</td><td>0.346</td><td></td><td>6</td><td>0.265</td></tr> <tr><td>121</td><td>0.330</td><td></td><td>19</td><td>0.263</td></tr> <tr><td>22</td><td>0.316</td><td></td><td>12</td><td>0.260</td></tr> <tr><td>115</td><td>0.310</td><td></td><td>30</td><td>0.260</td></tr> <tr><td>11</td><td>0.300</td><td></td><td>104</td><td>0.260</td></tr> <tr><td>118</td><td>0.300</td><td></td><td>113</td><td>0.260</td></tr> <tr><td>26</td><td>0.291</td><td></td><td>24</td><td>0.258</td></tr> <tr><td>36</td><td>0.285</td><td></td><td>5</td><td>0.256</td></tr> <tr><td>1</td><td>0.280</td><td></td><td>16</td><td>0.255</td></tr> <tr><td>15</td><td>0.280</td><td></td><td>23</td><td>0.252</td></tr> <tr><td>38</td><td>0.280</td><td></td><td>20</td><td>0.251</td></tr> <tr><td>112</td><td>0.280</td><td></td><td>135</td><td>0.250</td></tr> <tr><td>114</td><td>0.280</td><td></td><td>4</td><td>0.247</td></tr> <tr><td>131</td><td>0.280</td><td></td><td>21</td><td>0.243</td></tr> <tr><td>8</td><td>0.278</td><td></td><td>105</td><td>0.240</td></tr> <tr><td>14</td><td>0.277</td><td></td><td>119</td><td>0.240</td></tr> <tr><td>39</td><td>0.275</td><td></td><td>111</td><td>0.239</td></tr> <tr><td>3</td><td>0.273</td><td></td><td>10</td><td>0.233</td></tr> <tr><td>35</td><td>0.273</td><td></td><td>107</td><td>0.221</td></tr> <tr><td>7</td><td>0.272</td><td></td><td>124</td><td>0.200</td></tr> <tr><td>31</td><td>0.271</td><td></td><td>40</td><td>0.139</td></tr> <tr><td>33</td><td>0.270</td><td></td><td></td><td></td></tr> </tbody> </table> <p>UNUSED: DATA UNUSED IN RUN 2</p>	133	0.900	UNUSED	109	0.270	116	0.520	UNUSED	130	0.270	126	0.370		13	0.269	17	0.360		27	0.268	136	0.347		117	0.267	34	0.346		6	0.265	121	0.330		19	0.263	22	0.316		12	0.260	115	0.310		30	0.260	11	0.300		104	0.260	118	0.300		113	0.260	26	0.291		24	0.258	36	0.285		5	0.256	1	0.280		16	0.255	15	0.280		23	0.252	38	0.280		20	0.251	112	0.280		135	0.250	114	0.280		4	0.247	131	0.280		21	0.243	8	0.278		105	0.240	14	0.277		119	0.240	39	0.275		111	0.239	3	0.273		10	0.233	35	0.273		107	0.221	7	0.272		124	0.200	31	0.271		40	0.139	33	0.270				<p>POTASSIUM SAMPLE NO.: G4 THEORETICAL VALUE 0.331 UNIT: µg K/ml</p> <p>RUN 1: NUMBER OF LABORATORIES: 53 ARITHMETIC MEAN VALUE: 0.328 MEDIAN: 0.312 STANDARD DEVIATION: 0.081 REL. ST. DEVIATION (%): 24.786</p> <p>RUN 2: NUMBER OF LABORATORIES: 51 ARITHMETIC MEAN VALUE: 0.314 MEDIAN: 0.311 STANDARD DEVIATION: 0.035 REL. ST. DEVIATION (%): 11.042</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>133</td><td>0.800</td><td>UNUSED</td><td>6</td><td>0.311</td></tr> <tr><td>116</td><td>0.555</td><td>UNUSED</td><td>35</td><td>0.311</td></tr> <tr><td>126</td><td>0.400</td><td></td><td>104</td><td>0.311</td></tr> <tr><td>136</td><td>0.399</td><td></td><td>12</td><td>0.310</td></tr> <tr><td>17</td><td>0.393</td><td></td><td>30</td><td>0.310</td></tr> <tr><td>131</td><td>0.364</td><td></td><td>113</td><td>0.310</td></tr> <tr><td>115</td><td>0.360</td><td></td><td>121</td><td>0.310</td></tr> <tr><td>22</td><td>0.346</td><td></td><td>19</td><td>0.307</td></tr> <tr><td>11</td><td>0.340</td><td></td><td>16</td><td>0.305</td></tr> <tr><td>118</td><td>0.340</td><td></td><td>24</td><td>0.305</td></tr> <tr><td>26</td><td>0.337</td><td></td><td>27</td><td>0.304</td></tr> <tr><td>36</td><td>0.334</td><td></td><td>109</td><td>0.300</td></tr> <tr><td>14</td><td>0.331</td><td></td><td>124</td><td>0.300</td></tr> <tr><td>112</td><td>0.330</td><td></td><td>135</td><td>0.300</td></tr> <tr><td>34</td><td>0.329</td><td></td><td>23</td><td>0.297</td></tr> <tr><td>39</td><td>0.327</td><td></td><td>20</td><td>0.292</td></tr> <tr><td>3</td><td>0.326</td><td></td><td>1</td><td>0.290</td></tr> <tr><td>13</td><td>0.325</td><td></td><td>105</td><td>0.290</td></tr> <tr><td>8</td><td>0.323</td><td></td><td>4</td><td>0.287</td></tr> <tr><td>31</td><td>0.322</td><td></td><td>111</td><td>0.284</td></tr> <tr><td>15</td><td>0.320</td><td></td><td>5</td><td>0.281</td></tr> <tr><td>33</td><td>0.320</td><td></td><td>21</td><td>0.276</td></tr> <tr><td>38</td><td>0.320</td><td></td><td>10</td><td>0.271</td></tr> <tr><td>114</td><td>0.320</td><td></td><td>107</td><td>0.270</td></tr> <tr><td>130</td><td>0.320</td><td></td><td>119</td><td>0.270</td></tr> <tr><td>7</td><td>0.313</td><td></td><td>40</td><td>0.183</td></tr> <tr><td>117</td><td>0.312</td><td></td><td></td><td></td></tr> </tbody> </table> <p>UNUSED: DATA UNUSED IN RUN 2</p>	133	0.800	UNUSED	6	0.311	116	0.555	UNUSED	35	0.311	126	0.400		104	0.311	136	0.399		12	0.310	17	0.393		30	0.310	131	0.364		113	0.310	115	0.360		121	0.310	22	0.346		19	0.307	11	0.340		16	0.305	118	0.340		24	0.305	26	0.337		27	0.304	36	0.334		109	0.300	14	0.331		124	0.300	112	0.330		135	0.300	34	0.329		23	0.297	39	0.327		20	0.292	3	0.326		1	0.290	13	0.325		105	0.290	8	0.323		4	0.287	31	0.322		111	0.284	15	0.320		5	0.281	33	0.320		21	0.276	38	0.320		10	0.271	114	0.320		107	0.270	130	0.320		119	0.270	7	0.313		40	0.183	117	0.312			
133	0.900	UNUSED	109	0.270																																																																																																																																																																																																																																																																											
116	0.520	UNUSED	130	0.270																																																																																																																																																																																																																																																																											
126	0.370		13	0.269																																																																																																																																																																																																																																																																											
17	0.360		27	0.268																																																																																																																																																																																																																																																																											
136	0.347		117	0.267																																																																																																																																																																																																																																																																											
34	0.346		6	0.265																																																																																																																																																																																																																																																																											
121	0.330		19	0.263																																																																																																																																																																																																																																																																											
22	0.316		12	0.260																																																																																																																																																																																																																																																																											
115	0.310		30	0.260																																																																																																																																																																																																																																																																											
11	0.300		104	0.260																																																																																																																																																																																																																																																																											
118	0.300		113	0.260																																																																																																																																																																																																																																																																											
26	0.291		24	0.258																																																																																																																																																																																																																																																																											
36	0.285		5	0.256																																																																																																																																																																																																																																																																											
1	0.280		16	0.255																																																																																																																																																																																																																																																																											
15	0.280		23	0.252																																																																																																																																																																																																																																																																											
38	0.280		20	0.251																																																																																																																																																																																																																																																																											
112	0.280		135	0.250																																																																																																																																																																																																																																																																											
114	0.280		4	0.247																																																																																																																																																																																																																																																																											
131	0.280		21	0.243																																																																																																																																																																																																																																																																											
8	0.278		105	0.240																																																																																																																																																																																																																																																																											
14	0.277		119	0.240																																																																																																																																																																																																																																																																											
39	0.275		111	0.239																																																																																																																																																																																																																																																																											
3	0.273		10	0.233																																																																																																																																																																																																																																																																											
35	0.273		107	0.221																																																																																																																																																																																																																																																																											
7	0.272		124	0.200																																																																																																																																																																																																																																																																											
31	0.271		40	0.139																																																																																																																																																																																																																																																																											
33	0.270																																																																																																																																																																																																																																																																														
133	0.800	UNUSED	6	0.311																																																																																																																																																																																																																																																																											
116	0.555	UNUSED	35	0.311																																																																																																																																																																																																																																																																											
126	0.400		104	0.311																																																																																																																																																																																																																																																																											
136	0.399		12	0.310																																																																																																																																																																																																																																																																											
17	0.393		30	0.310																																																																																																																																																																																																																																																																											
131	0.364		113	0.310																																																																																																																																																																																																																																																																											
115	0.360		121	0.310																																																																																																																																																																																																																																																																											
22	0.346		19	0.307																																																																																																																																																																																																																																																																											
11	0.340		16	0.305																																																																																																																																																																																																																																																																											
118	0.340		24	0.305																																																																																																																																																																																																																																																																											
26	0.337		27	0.304																																																																																																																																																																																																																																																																											
36	0.334		109	0.300																																																																																																																																																																																																																																																																											
14	0.331		124	0.300																																																																																																																																																																																																																																																																											
112	0.330		135	0.300																																																																																																																																																																																																																																																																											
34	0.329		23	0.297																																																																																																																																																																																																																																																																											
39	0.327		20	0.292																																																																																																																																																																																																																																																																											
3	0.326		1	0.290																																																																																																																																																																																																																																																																											
13	0.325		105	0.290																																																																																																																																																																																																																																																																											
8	0.323		4	0.287																																																																																																																																																																																																																																																																											
31	0.322		111	0.284																																																																																																																																																																																																																																																																											
15	0.320		5	0.281																																																																																																																																																																																																																																																																											
33	0.320		21	0.276																																																																																																																																																																																																																																																																											
38	0.320		10	0.271																																																																																																																																																																																																																																																																											
114	0.320		107	0.270																																																																																																																																																																																																																																																																											
130	0.320		119	0.270																																																																																																																																																																																																																																																																											
7	0.313		40	0.183																																																																																																																																																																																																																																																																											
117	0.312																																																																																																																																																																																																																																																																														

Table 29: Analytical results for conductivity in precipitations samples.

<p>CONDUCTIVITY SAMPLE NO.: G1 THEORETICAL VALUE 42.400 UNIT: $\mu\text{S}/\text{cm}$</p> <p>RUN 1: NUMBER OF LABORATORIES: 52 ARITHMETIC MEAN VALUE: 39.520 MEDIAN: 40.150 STANDARD DEVIATION: 4.825 REL. ST. DEVIATION (%): 12.210</p> <p>RUN 2: NUMBER OF LABORATORIES: 50 ARITHMETIC MEAN VALUE: 39.803 MEDIAN: 40.150 STANDARD DEVIATION: 2.758 REL. ST. DEVIATION (%): 6.930</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>105</td><td>51.300</td><td>UNUSED</td><td>4</td><td>40.100</td></tr> <tr><td>22</td><td>44.700</td><td></td><td>130</td><td>40.100</td></tr> <tr><td>1</td><td>44.300</td><td></td><td>19</td><td>40.000</td></tr> <tr><td>12</td><td>43.600</td><td></td><td>135</td><td>40.000</td></tr> <tr><td>23</td><td>43.000</td><td></td><td>13</td><td>39.700</td></tr> <tr><td>31</td><td>42.630</td><td></td><td>6</td><td>39.500</td></tr> <tr><td>27</td><td>42.600</td><td></td><td>33</td><td>39.500</td></tr> <tr><td>21</td><td>42.530</td><td></td><td>126</td><td>39.300</td></tr> <tr><td>10</td><td>42.250</td><td></td><td>111</td><td>39.100</td></tr> <tr><td>15</td><td>42.000</td><td></td><td>24</td><td>39.000</td></tr> <tr><td>104</td><td>42.000</td><td></td><td>35</td><td>39.000</td></tr> <tr><td>117</td><td>42.000</td><td></td><td>106</td><td>39.000</td></tr> <tr><td>5</td><td>41.800</td><td></td><td>112</td><td>39.000</td></tr> <tr><td>107</td><td>41.600</td><td></td><td>118</td><td>39.000</td></tr> <tr><td>3</td><td>41.500</td><td></td><td>124</td><td>39.000</td></tr> <tr><td>121</td><td>41.400</td><td></td><td>34</td><td>38.400</td></tr> <tr><td>16</td><td>41.000</td><td></td><td>116</td><td>38.380</td></tr> <tr><td>20</td><td>40.900</td><td></td><td>11</td><td>37.400</td></tr> <tr><td>14</td><td>40.800</td><td></td><td>40</td><td>37.000</td></tr> <tr><td>30</td><td>40.700</td><td></td><td>115</td><td>36.000</td></tr> <tr><td>7</td><td>40.500</td><td></td><td>119</td><td>35.400</td></tr> <tr><td>38</td><td>40.500</td><td></td><td>39</td><td>34.900</td></tr> <tr><td>131</td><td>40.500</td><td></td><td>18</td><td>33.700</td></tr> <tr><td>109</td><td>40.300</td><td></td><td>36</td><td>33.300</td></tr> <tr><td>17</td><td>40.250</td><td></td><td>136</td><td>30.800</td></tr> <tr><td>114</td><td>40.200</td><td></td><td>133</td><td>13.600</td></tr> <tr><td colspan="5">UNUSED: DATA UNUSED IN RUN 2</td></tr> </tbody> </table>	105	51.300	UNUSED	4	40.100	22	44.700		130	40.100	1	44.300		19	40.000	12	43.600		135	40.000	23	43.000		13	39.700	31	42.630		6	39.500	27	42.600		33	39.500	21	42.530		126	39.300	10	42.250		111	39.100	15	42.000		24	39.000	104	42.000		35	39.000	117	42.000		106	39.000	5	41.800		112	39.000	107	41.600		118	39.000	3	41.500		124	39.000	121	41.400		34	38.400	16	41.000		116	38.380	20	40.900		11	37.400	14	40.800		40	37.000	30	40.700		115	36.000	7	40.500		119	35.400	38	40.500		39	34.900	131	40.500		18	33.700	109	40.300		36	33.300	17	40.250		136	30.800	114	40.200		133	13.600	UNUSED: DATA UNUSED IN RUN 2					<p>CONDUCTIVITY SAMPLE NO.: G2 THEORETICAL VALUE 22.700 UNIT: $\mu\text{S}/\text{cm}$</p> <p>RUN 1: NUMBER OF LABORATORIES: 52 ARITHMETIC MEAN VALUE: 22.068 MEDIAN: 22.200 STANDARD DEVIATION: 2.761 REL. ST. DEVIATION (%): 12.510</p> <p>RUN 2: NUMBER OF LABORATORIES: 49 ARITHMETIC MEAN VALUE: 22.242 MEDIAN: 22.200 STANDARD DEVIATION: 1.384 REL. ST. DEVIATION (%): 6.224</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>117</td><td>32.000</td><td>UNUSED</td><td>135</td><td>22.200</td></tr> <tr><td>22</td><td>25.100</td><td></td><td>111</td><td>22.100</td></tr> <tr><td>38</td><td>25.100</td><td></td><td>17</td><td>22.000</td></tr> <tr><td>105</td><td>24.200</td><td></td><td>24</td><td>22.000</td></tr> <tr><td>1</td><td>24.000</td><td></td><td>106</td><td>22.000</td></tr> <tr><td>20</td><td>24.000</td><td></td><td>131</td><td>22.000</td></tr> <tr><td>23</td><td>24.000</td><td></td><td>6</td><td>21.900</td></tr> <tr><td>104</td><td>23.800</td><td></td><td>13</td><td>21.900</td></tr> <tr><td>12</td><td>23.600</td><td></td><td>31</td><td>21.900</td></tr> <tr><td>27</td><td>23.300</td><td></td><td>19</td><td>21.800</td></tr> <tr><td>33</td><td>23.300</td><td></td><td>130</td><td>21.800</td></tr> <tr><td>3</td><td>23.220</td><td></td><td>34</td><td>21.600</td></tr> <tr><td>10</td><td>23.130</td><td></td><td>115</td><td>21.400</td></tr> <tr><td>15</td><td>23.100</td><td></td><td>116</td><td>21.320</td></tr> <tr><td>16</td><td>23.000</td><td></td><td>35</td><td>21.090</td></tr> <tr><td>114</td><td>23.000</td><td></td><td>118</td><td>21.000</td></tr> <tr><td>121</td><td>22.900</td><td></td><td>124</td><td>21.000</td></tr> <tr><td>21</td><td>22.890</td><td></td><td>39</td><td>20.900</td></tr> <tr><td>5</td><td>22.800</td><td></td><td>11</td><td>20.800</td></tr> <tr><td>4</td><td>22.600</td><td></td><td>112</td><td>20.600</td></tr> <tr><td>14</td><td>22.500</td><td></td><td>18</td><td>20.330</td></tr> <tr><td>107</td><td>22.500</td><td></td><td>40</td><td>20.000</td></tr> <tr><td>109</td><td>22.300</td><td></td><td>119</td><td>19.470</td></tr> <tr><td>126</td><td>22.300</td><td></td><td>36</td><td>17.700</td></tr> <tr><td>7</td><td>22.200</td><td></td><td>136</td><td>16.500</td></tr> <tr><td>30</td><td>22.200</td><td></td><td>133</td><td>9.200</td></tr> <tr><td colspan="5">UNUSED: DATA UNUSED IN RUN 2</td></tr> </tbody> </table>	117	32.000	UNUSED	135	22.200	22	25.100		111	22.100	38	25.100		17	22.000	105	24.200		24	22.000	1	24.000		106	22.000	20	24.000		131	22.000	23	24.000		6	21.900	104	23.800		13	21.900	12	23.600		31	21.900	27	23.300		19	21.800	33	23.300		130	21.800	3	23.220		34	21.600	10	23.130		115	21.400	15	23.100		116	21.320	16	23.000		35	21.090	114	23.000		118	21.000	121	22.900		124	21.000	21	22.890		39	20.900	5	22.800		11	20.800	4	22.600		112	20.600	14	22.500		18	20.330	107	22.500		40	20.000	109	22.300		119	19.470	126	22.300		36	17.700	7	22.200		136	16.500	30	22.200		133	9.200	UNUSED: DATA UNUSED IN RUN 2				
105	51.300	UNUSED	4	40.100																																																																																																																																																																																																																																																																											
22	44.700		130	40.100																																																																																																																																																																																																																																																																											
1	44.300		19	40.000																																																																																																																																																																																																																																																																											
12	43.600		135	40.000																																																																																																																																																																																																																																																																											
23	43.000		13	39.700																																																																																																																																																																																																																																																																											
31	42.630		6	39.500																																																																																																																																																																																																																																																																											
27	42.600		33	39.500																																																																																																																																																																																																																																																																											
21	42.530		126	39.300																																																																																																																																																																																																																																																																											
10	42.250		111	39.100																																																																																																																																																																																																																																																																											
15	42.000		24	39.000																																																																																																																																																																																																																																																																											
104	42.000		35	39.000																																																																																																																																																																																																																																																																											
117	42.000		106	39.000																																																																																																																																																																																																																																																																											
5	41.800		112	39.000																																																																																																																																																																																																																																																																											
107	41.600		118	39.000																																																																																																																																																																																																																																																																											
3	41.500		124	39.000																																																																																																																																																																																																																																																																											
121	41.400		34	38.400																																																																																																																																																																																																																																																																											
16	41.000		116	38.380																																																																																																																																																																																																																																																																											
20	40.900		11	37.400																																																																																																																																																																																																																																																																											
14	40.800		40	37.000																																																																																																																																																																																																																																																																											
30	40.700		115	36.000																																																																																																																																																																																																																																																																											
7	40.500		119	35.400																																																																																																																																																																																																																																																																											
38	40.500		39	34.900																																																																																																																																																																																																																																																																											
131	40.500		18	33.700																																																																																																																																																																																																																																																																											
109	40.300		36	33.300																																																																																																																																																																																																																																																																											
17	40.250		136	30.800																																																																																																																																																																																																																																																																											
114	40.200		133	13.600																																																																																																																																																																																																																																																																											
UNUSED: DATA UNUSED IN RUN 2																																																																																																																																																																																																																																																																															
117	32.000	UNUSED	135	22.200																																																																																																																																																																																																																																																																											
22	25.100		111	22.100																																																																																																																																																																																																																																																																											
38	25.100		17	22.000																																																																																																																																																																																																																																																																											
105	24.200		24	22.000																																																																																																																																																																																																																																																																											
1	24.000		106	22.000																																																																																																																																																																																																																																																																											
20	24.000		131	22.000																																																																																																																																																																																																																																																																											
23	24.000		6	21.900																																																																																																																																																																																																																																																																											
104	23.800		13	21.900																																																																																																																																																																																																																																																																											
12	23.600		31	21.900																																																																																																																																																																																																																																																																											
27	23.300		19	21.800																																																																																																																																																																																																																																																																											
33	23.300		130	21.800																																																																																																																																																																																																																																																																											
3	23.220		34	21.600																																																																																																																																																																																																																																																																											
10	23.130		115	21.400																																																																																																																																																																																																																																																																											
15	23.100		116	21.320																																																																																																																																																																																																																																																																											
16	23.000		35	21.090																																																																																																																																																																																																																																																																											
114	23.000		118	21.000																																																																																																																																																																																																																																																																											
121	22.900		124	21.000																																																																																																																																																																																																																																																																											
21	22.890		39	20.900																																																																																																																																																																																																																																																																											
5	22.800		11	20.800																																																																																																																																																																																																																																																																											
4	22.600		112	20.600																																																																																																																																																																																																																																																																											
14	22.500		18	20.330																																																																																																																																																																																																																																																																											
107	22.500		40	20.000																																																																																																																																																																																																																																																																											
109	22.300		119	19.470																																																																																																																																																																																																																																																																											
126	22.300		36	17.700																																																																																																																																																																																																																																																																											
7	22.200		136	16.500																																																																																																																																																																																																																																																																											
30	22.200		133	9.200																																																																																																																																																																																																																																																																											
UNUSED: DATA UNUSED IN RUN 2																																																																																																																																																																																																																																																																															
<p>CONDUCTIVITY SAMPLE NO.: G3 THEORETICAL VALUE 30.100 UNIT: $\mu\text{S}/\text{cm}$</p> <p>RUN 1: NUMBER OF LABORATORIES: 52 ARITHMETIC MEAN VALUE: 29.146 MEDIAN: 29.350 STANDARD DEVIATION: 2.999 REL. ST. DEVIATION (%): 10.290</p> <p>RUN 2: NUMBER OF LABORATORIES: 50 ARITHMETIC MEAN VALUE: 29.204 MEDIAN: 29.350 STANDARD DEVIATION: 1.793 REL. ST. DEVIATION (%): 6.141</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>24</td><td>40.000</td><td>UNUSED</td><td>4</td><td>29.300</td></tr> <tr><td>22</td><td>33.300</td><td></td><td>135</td><td>29.300</td></tr> <tr><td>20</td><td>31.700</td><td></td><td>19</td><td>29.200</td></tr> <tr><td>1</td><td>31.400</td><td></td><td>7</td><td>29.050</td></tr> <tr><td>12</td><td>31.000</td><td></td><td>30</td><td>29.000</td></tr> <tr><td>23</td><td>31.000</td><td></td><td>106</td><td>29.000</td></tr> <tr><td>27</td><td>31.000</td><td></td><td>117</td><td>29.000</td></tr> <tr><td>33</td><td>31.000</td><td></td><td>118</td><td>29.000</td></tr> <tr><td>5</td><td>30.900</td><td></td><td>124</td><td>29.000</td></tr> <tr><td>38</td><td>30.600</td><td></td><td>130</td><td>28.900</td></tr> <tr><td>3</td><td>30.360</td><td></td><td>6</td><td>28.700</td></tr> <tr><td>104</td><td>30.300</td><td></td><td>34</td><td>28.700</td></tr> <tr><td>10</td><td>30.260</td><td></td><td>112</td><td>28.600</td></tr> <tr><td>131</td><td>30.200</td><td></td><td>115</td><td>28.500</td></tr> <tr><td>21</td><td>30.160</td><td></td><td>13</td><td>28.400</td></tr> <tr><td>15</td><td>30.100</td><td></td><td>17</td><td>28.250</td></tr> <tr><td>16</td><td>30.000</td><td></td><td>39</td><td>28.200</td></tr> <tr><td>114</td><td>30.000</td><td></td><td>35</td><td>27.950</td></tr> <tr><td>121</td><td>30.000</td><td></td><td>11</td><td>27.700</td></tr> <tr><td>31</td><td>29.970</td><td></td><td>40</td><td>27.000</td></tr> <tr><td>105</td><td>29.900</td><td></td><td>116</td><td>26.740</td></tr> <tr><td>14</td><td>29.800</td><td></td><td>18</td><td>26.250</td></tr> <tr><td>126</td><td>29.600</td><td></td><td>119</td><td>26.100</td></tr> <tr><td>109</td><td>29.500</td><td></td><td>36</td><td>25.600</td></tr> <tr><td>111</td><td>29.500</td><td></td><td>136</td><td>21.800</td></tr> <tr><td>107</td><td>29.400</td><td></td><td>133</td><td>15.400</td></tr> <tr><td colspan="5">UNUSED: DATA UNUSED IN RUN 2</td></tr> </tbody> </table>	24	40.000	UNUSED	4	29.300	22	33.300		135	29.300	20	31.700		19	29.200	1	31.400		7	29.050	12	31.000		30	29.000	23	31.000		106	29.000	27	31.000		117	29.000	33	31.000		118	29.000	5	30.900		124	29.000	38	30.600		130	28.900	3	30.360		6	28.700	104	30.300		34	28.700	10	30.260		112	28.600	131	30.200		115	28.500	21	30.160		13	28.400	15	30.100		17	28.250	16	30.000		39	28.200	114	30.000		35	27.950	121	30.000		11	27.700	31	29.970		40	27.000	105	29.900		116	26.740	14	29.800		18	26.250	126	29.600		119	26.100	109	29.500		36	25.600	111	29.500		136	21.800	107	29.400		133	15.400	UNUSED: DATA UNUSED IN RUN 2					<p>CONDUCTIVITY SAMPLE NO.: G4 THEORETICAL VALUE 38.800 UNIT: $\mu\text{S}/\text{cm}$</p> <p>RUN 1: NUMBER OF LABORATORIES: 51 ARITHMETIC MEAN VALUE: 36.435 MEDIAN: 37.000 STANDARD DEVIATION: 4.109 REL. ST. DEVIATION (%): 11.277</p> <p>RUN 2: NUMBER OF LABORATORIES: 49 ARITHMETIC MEAN VALUE: 37.112 MEDIAN: 37.050 STANDARD DEVIATION: 1.794 REL. ST. DEVIATION (%): 4.834</p> <p>RESULTS IN DECREASING ORDER:</p> <table> <tbody> <tr><td>105</td><td>43.200</td><td></td><td>24</td><td>37.000</td></tr> <tr><td>22</td><td>40.000</td><td></td><td>106</td><td>37.000</td></tr> <tr><td>12</td><td>39.500</td><td></td><td>20</td><td>36.900</td></tr> <tr><td>33</td><td>39.200</td><td></td><td>104</td><td>36.900</td></tr> <tr><td>1</td><td>39.000</td><td></td><td>130</td><td>36.800</td></tr> <tr><td>23</td><td>39.000</td><td></td><td>111</td><td>36.700</td></tr> <tr><td>3</td><td>38.800</td><td></td><td>13</td><td>36.600</td></tr> <tr><td>27</td><td>38.700</td><td></td><td>6</td><td>36.500</td></tr> <tr><td>10</td><td>38.650</td><td></td><td>34</td><td>36.500</td></tr> <tr><td>21</td><td>38.550</td><td></td><td>36</td><td>36.500</td></tr> <tr><td>38</td><td>38.300</td><td></td><td>112</td><td>36.200</td></tr> <tr><td>16</td><td>38.000</td><td></td><td>117</td><td>36.000</td></tr> <tr><td>5</td><td>37.900</td><td></td><td>118</td><td>36.000</td></tr> <tr><td>114</td><td>37.900</td><td></td><td>124</td><td>36.000</td></tr> <tr><td>131</td><td>37.900</td><td></td><td>17</td><td>35.900</td></tr> <tr><td>121</td><td>37.800</td><td></td><td>31</td><td>35.730</td></tr> <tr><td>14</td><td>37.700</td><td></td><td>35</td><td>35.700</td></tr> <tr><td>15</td><td>37.700</td><td></td><td>115</td><td>35.000</td></tr> <tr><td>107</td><td>37.500</td><td></td><td>11</td><td>34.900</td></tr> <tr><td>109</td><td>37.400</td><td></td><td>39</td><td>34.600</td></tr> <tr><td>30</td><td>37.300</td><td></td><td>119</td><td>33.300</td></tr> <tr><td>126</td><td>37.300</td><td></td><td>40</td><td>33.000</td></tr> <tr><td>135</td><td>37.300</td><td></td><td>18</td><td>32.900</td></tr> <tr><td>19</td><td>37.200</td><td></td><td>136</td><td>27.500</td></tr> <tr><td>7</td><td>37.050</td><td></td><td>133</td><td>12.200</td></tr> <tr><td>4</td><td>37.000</td><td></td><td></td><td></td></tr> <tr><td colspan="5">UNUSED: DATA UNUSED IN RUN 2</td></tr> </tbody> </table>	105	43.200		24	37.000	22	40.000		106	37.000	12	39.500		20	36.900	33	39.200		104	36.900	1	39.000		130	36.800	23	39.000		111	36.700	3	38.800		13	36.600	27	38.700		6	36.500	10	38.650		34	36.500	21	38.550		36	36.500	38	38.300		112	36.200	16	38.000		117	36.000	5	37.900		118	36.000	114	37.900		124	36.000	131	37.900		17	35.900	121	37.800		31	35.730	14	37.700		35	35.700	15	37.700		115	35.000	107	37.500		11	34.900	109	37.400		39	34.600	30	37.300		119	33.300	126	37.300		40	33.000	135	37.300		18	32.900	19	37.200		136	27.500	7	37.050		133	12.200	4	37.000				UNUSED: DATA UNUSED IN RUN 2				
24	40.000	UNUSED	4	29.300																																																																																																																																																																																																																																																																											
22	33.300		135	29.300																																																																																																																																																																																																																																																																											
20	31.700		19	29.200																																																																																																																																																																																																																																																																											
1	31.400		7	29.050																																																																																																																																																																																																																																																																											
12	31.000		30	29.000																																																																																																																																																																																																																																																																											
23	31.000		106	29.000																																																																																																																																																																																																																																																																											
27	31.000		117	29.000																																																																																																																																																																																																																																																																											
33	31.000		118	29.000																																																																																																																																																																																																																																																																											
5	30.900		124	29.000																																																																																																																																																																																																																																																																											
38	30.600		130	28.900																																																																																																																																																																																																																																																																											
3	30.360		6	28.700																																																																																																																																																																																																																																																																											
104	30.300		34	28.700																																																																																																																																																																																																																																																																											
10	30.260		112	28.600																																																																																																																																																																																																																																																																											
131	30.200		115	28.500																																																																																																																																																																																																																																																																											
21	30.160		13	28.400																																																																																																																																																																																																																																																																											
15	30.100		17	28.250																																																																																																																																																																																																																																																																											
16	30.000		39	28.200																																																																																																																																																																																																																																																																											
114	30.000		35	27.950																																																																																																																																																																																																																																																																											
121	30.000		11	27.700																																																																																																																																																																																																																																																																											
31	29.970		40	27.000																																																																																																																																																																																																																																																																											
105	29.900		116	26.740																																																																																																																																																																																																																																																																											
14	29.800		18	26.250																																																																																																																																																																																																																																																																											
126	29.600		119	26.100																																																																																																																																																																																																																																																																											
109	29.500		36	25.600																																																																																																																																																																																																																																																																											
111	29.500		136	21.800																																																																																																																																																																																																																																																																											
107	29.400		133	15.400																																																																																																																																																																																																																																																																											
UNUSED: DATA UNUSED IN RUN 2																																																																																																																																																																																																																																																																															
105	43.200		24	37.000																																																																																																																																																																																																																																																																											
22	40.000		106	37.000																																																																																																																																																																																																																																																																											
12	39.500		20	36.900																																																																																																																																																																																																																																																																											
33	39.200		104	36.900																																																																																																																																																																																																																																																																											
1	39.000		130	36.800																																																																																																																																																																																																																																																																											
23	39.000		111	36.700																																																																																																																																																																																																																																																																											
3	38.800		13	36.600																																																																																																																																																																																																																																																																											
27	38.700		6	36.500																																																																																																																																																																																																																																																																											
10	38.650		34	36.500																																																																																																																																																																																																																																																																											
21	38.550		36	36.500																																																																																																																																																																																																																																																																											
38	38.300		112	36.200																																																																																																																																																																																																																																																																											
16	38.000		117	36.000																																																																																																																																																																																																																																																																											
5	37.900		118	36.000																																																																																																																																																																																																																																																																											
114	37.900		124	36.000																																																																																																																																																																																																																																																																											
131	37.900		17	35.900																																																																																																																																																																																																																																																																											
121	37.800		31	35.730																																																																																																																																																																																																																																																																											
14	37.700		35	35.700																																																																																																																																																																																																																																																																											
15	37.700		115	35.000																																																																																																																																																																																																																																																																											
107	37.500		11	34.900																																																																																																																																																																																																																																																																											
109	37.400		39	34.600																																																																																																																																																																																																																																																																											
30	37.300		119	33.300																																																																																																																																																																																																																																																																											
126	37.300		40	33.000																																																																																																																																																																																																																																																																											
135	37.300		18	32.900																																																																																																																																																																																																																																																																											
19	37.200		136	27.500																																																																																																																																																																																																																																																																											
7	37.050		133	12.200																																																																																																																																																																																																																																																																											
4	37.000																																																																																																																																																																																																																																																																														
UNUSED: DATA UNUSED IN RUN 2																																																																																																																																																																																																																																																																															

Table 30: Ratio of the measured to the calculated conductivity in synthetic precipitation samples (G1-G4).

Lab. No.	Measured value / Calculated value				Remark
	Sample No.				
	G1	G2	G3	G4	
1	1.10	1.10	1.09	1.06	
3	1.10	1.08	1.08	1.11	
4	1.02	1.05	1.02	1.01	
5	1.01	1.02	1.05	1.01	
6	0.98	0.94	0.95	0.98	
7	1.06	1.05	1.02	1.03	
8					Conductivity missing
10	1.30	1.20	1.19	1.28	
11	0.90	0.92	0.92	0.94	
12	1.07	1.06	1.06	1.01	
13	1.01	1.01	0.98	1.00	
14	1.11	1.13	1.11	1.12	
15	1.10	1.11	1.07	1.07	
16	1.01	1.01	1.03	1.05	
17	1.09	1.04	1.01	1.05	
18					Report only SO ₄ ²⁻ , NH ₄ ⁺ and Cl ⁻ . Cl ⁻ values < LOD for G1 and G2
19	1.23	1.22	1.18	1.18	
20	0.96	1.05	1.04	0.94	
21	1.08	1.05	1.04	1.07	
22	1.19	1.23	1.19	1.07	
23	0.97	0.97	0.97	0.96	
24					SO ₄ ²⁻ missing
26					Conductivity missing
27	1.09	1.07	1.08	1.08	
30	0.98	0.99	0.97	0.99	
31	1.08	1.01	1.00	1.04	
33	0.99	0.96	1.00	1.01	
34	0.98	0.88	0.96	0.98	
35	1.02	1.03	0.99	1.02	
36	0.88	1.11	1.14	1.07	
38	1.01	1.08	1.07	1.08	
39	0.84	0.91	0.86	0.87	
40					SO ₄ ²⁻ missing
104	1.09	1.09	1.06	1.05	
105	1.23	1.11	1.00	1.23	
106					Report only NH ₄ ⁺
107	0.91	0.89	0.92	0.90	
109	1.18	1.06	1.06	1.07	Cl ⁻ < LOD for G1
111	1.08	1.12	1.08	1.03	Cl ⁻ < LOD for G1 and G2
112	1.01	1.05	1.00	1.03	
113					Missing cond., Na ⁺ , Cl ⁻ and SO ₄ ²⁻
114	1.03	1.02	1.02	1.02	
115	1.20	1.03	1.15	1.17	
116	1.03	0.99	0.89	0.00	Conductivity missing for G4
117	1.37	1.10	1.11	1.09	
118	0.98	0.95	0.97	1.01	
119	0.81	0.85	0.80	0.80	
121	0.87	0.10	0.06	0.25	
124	1.04	1.00	1.06	0.97	
126	1.07	1.10	1.06	1.06	
130	0.70	0.70	0.71	0.75	
131	1.01	0.99	1.04	1.01	
133	0.32	0.49	0.51	0.35	
134					Conductivity missing
135	1.00	0.97	0.98	0.96	
136	0.74	0.73	0.74	0.73	

Table 31: Ratio of equivalent concentration of anions to the equivalent concentration of cation measured in synthetic precipitation samples.

Lab. No.	Anions / Cations				Remarks
	G1	G2	G3	G4	
1	1.07	1.05	1.04	1.06	
3	1.09	1.02	1.02	1.06	
4	1.05	1.04	1.07	1.08	
5	1.03	1.04	1.03	1.04	
6	1.01	0.94	0.96	1.00	
7	1.04	1.00	1.00	1.00	
8					pH missing
10	1.30	1.30	1.23	1.31	
11	1.08	1.13	1.11	1.07	
12	1.12	1.06	1.06	0.92	
13	1.04	1.19	1.19	1.19	
14	1.14	1.09	1.07	1.09	
15	1.05	1.05	1.01	1.10	
16	1.02	0.97	0.98	1.01	
17	1.19	1.07	1.08	1.14	
18	1.05	1.32	1.67	1.34	Report only SO ₄ ²⁻ , NH ₄ ⁺ and Cl ⁻ . Cl ⁻ values < LOD for G1 and G2
19	1.19	1.10	1.15	1.18	
20	0.85	0.90	0.89	0.81	
21	1.06	1.03	1.04	1.06	
22	1.13	0.93	0.96	1.09	
23	0.98	0.97	0.97	0.97	
24					SO ₄ ²⁻ missing
26	1.02	1.00	1.00	1.01	
27	1.09	1.05	1.05	1.07	
30	1.02	1.01	1.01	1.02	
31	1.07	1.03	1.00	1.07	
33	1.13	1.10	1.07	1.10	
34	1.04	0.68	0.93	0.91	
35	1.11	1.07	1.05	1.10	
36	1.09	1.19	1.16	1.06	
38	1.03	1.05	0.92	0.97	
39	1.09	1.02	0.98	1.04	
40					SO ₂ ⁴⁻ missing
104	1.07	1.03	1.04	1.09	
105	0.85	0.93	0.87	0.92	
106					Report only NH ₄ ⁺
107	0.95	0.91	0.95	0.91	
109	1.05	0.92	0.98	0.97	Cl ⁻ < LOD for G1
111	1.11	1.11	1.06	1.07	Cl ⁻ < LOD for G1 and G2
112	1.02	1.04	1.07	1.09	
113					Missing cond., Na ⁺ , Cl ⁻ and SO ₄ ²⁻
114	1.02	1.00	1.03	1.03	
115	1.42	0.91	1.17	1.22	
116	0.98	0.88	0.95	1.00	
117	1.18	1.07	1.03	0.98	
118	0.96	0.95	0.96	1.03	
119	1.30	1.09	1.13	1.11	
121	0.91	0.15	0.09	0.32	
124	1.07	0.90	0.93	0.90	
126	1.10	1.04	1.04	1.04	
130	1.85	1.81	1.63	2.03	
131	0.99	0.96	1.01	0.97	
133	1.13	1.15	1.08	1.23	
134					Missing pH, Mg ⁺ , Na ⁺ , Ca ²⁺ , K ⁺
135	1.06	1.01	1.00	1.01	
136	0.89	0.90	0.86	0.88	

Table 32: The ratio of the median values to the theoretical values for all parameters and samples.

Parameter	Sample No.	Median / Expected
SO ₄ -S	G1	1.00
	G2	1.00
	G3	1.00
	G4	0.99
NO ₃ -N	G1	1.00
	G2	1.00
	G3	1.00
	G4	0.98
NH ₄ -N	G1	0.98
	G2	0.99
	G3	0.99
	G4	0.98
pH (calc. from H ⁺)	G1	0.88
	G2	0.93
	G3	0.92
	G4	0.91
H	G1	0.88
	G2	0.93
	G3	0.91
	G4	0.90
Mg	G1	1.00
	G2	0.99
	G3	0.99
	G4	0.99
Na	G1	0.98
	G2	0.98
	G3	0.98
	G4	0.97
Cl	G1	0.99
	G2	0.98
	G3	0.97
	G4	0.97
Ca	G1	1.00
	G2	0.98
	G3	0.99
	G4	0.99
K	G1	0.98
	G2	0.96
	G3	0.96
	G4	0.94
Cond.	G1	0.95
	G2	0.98
	G3	0.98
	G4	0.95

Table 33: Analytical methods used for the determination of chemical constituents in precipitation samples.

Constituents	Methods	Laboratory
SO ₄	1. Thorin	18
	2. Ion chromatography	1, 3, 4, 5, 6, 7, 8, 10, 11, 12, 13, 14, 15, 16, 17, 19, 20, 21, 22, 23, 26, 27, 30, 31, 33, 34, 35, 36, 38, 104, 105, 107, 111, 114, 115, 116, 118, 119, 121, 124, 130, 131, 133, 134
	3. Capillary electrophoresis	39
	4. ICP-AES	109, 112, 117
	5. FIA	
	6. Turbidimetry	24
NO ₃	1 Griess after Cd-red.	24, 112
	2 Ion chromatography	1, 3, 4, 5, 6, 7, 8, 10, 11, 12, 13, 14, 15, 16, 17, 19, 20, 21, 22, 23, 26, 27, 30, 31, 33, 34, 35, 36, 38, 105, 107, 114, 115, 116, 118, 119, 121, 124, 131, 133, 134
	3 UV-method/Photometric	40, 104, 117
	4 Capillary electrophoresis	39
	5 FIA	109, 111, 113,
NH ₄	1 Indophenol	10, 17, 18, 19, 20, 24, 34, 35, 39, 40, 112, 114
	2 Berthelot reaction, salicylate	26,
	3 Ion chromatography	1, 5, 7, 8, 12, 13, 15, 21, 22, 23, 30, 31, 36, 107, 115, 119, 121, 124, 131
	4 Flow injection analysis (FIA)	6, 11, 14, 27, 106, 109, 111, 113, 134
	5 Chloramin T	16
	6 Nessler method	105
	7 Kjeldahl	
	8 Photometry	3, 4, 33, 104, 114, 116, 117, 118, 133
H ⁺	1 Acidimetric titration	14, 124, 126
	2 Alkali titration to spec. pH	6,
Mg	1 Atomic absorption (AAS)	3, 4, 10, 16, 17, 19, 20, 22, 24, 26, 27, 33, 34, 35, 38, 40, 105, 116, 121, 124, 133
	2 Ion chromatography	1, 5, 6, 7, 8, 12, 13, 15, 21, 23, 30, 31, 36, 107, 114, 119, 131
	3 ICP-AES	11, 14, 39, 104, 109, 111, 112, 113, 115, 117, 118
Na	1 AES	33, 38, 112, 133
	2 AAS	3, 4, 10, 16, 17, 19, 20, 24, 26, 27, 34, 35, 40, 105, 116, 124
	3 ICP-AES	11, 14, 39, 104, 109, 111, 115, 117, 118,
	4 Ion chromatography	1, 5, 6, 7, 8, 12, 13, 15, 21, 22, 23, 30, 31, 36, 107, 114, 119, 121, 131
Cl	1 Mercury thiocyanate-iron	18, 24, 40
	2 Ion chromatography	1, 3, 4, 5, 6, 7, 8, 10, 11, 12, 13, 14, 15, 16, 17, 19, 20, 21, 22, 23, 26, 27, 30, 31, 33, 34, 35, 36, 38, 104, 105, 107, 111, 114, 115, 116, 118, 119, 121, 124, 131, 133, 134
	3 Capillary electrophoresis	39
	4 Potensiometric method	109, 112
	5 Photometric method	117,
Ca	1 AAS	3, 4, 8, 10, 16, 17, 19, 22, 24, 26, 27, 33, 34, 35, 38, 40, 105, 116, 124, 133
	2 ICP-AES	11, 14, 39, 104, 109, 111, 112, 113, 115, 117, 118
	3 Ion chromatography	1, 5, 6, 7, 8, 12, 15, 20, 23, 31, 36, 107, 114, 119, 121, 131
	4 AES	
K	1 AAS	3, 4, 10, 16, 17, 18, 19, 24, 26, 27, 34, 35, 40, 105, 112, 124
	2 Ion chromatography	1, 5, 6, 7, 8, 12, 13, 15, 20, 21, 22, 23, 30, 31, 36, 107, 114, 119, 121, 126, 131
	3 AES	33, 39, 116, 133?
	4 ICP-AES	11, 14, 104, 109, 111, 113, 115, 117, 118

Table 34: Relative random and systematic errors obtained by the different laboratories in the analysis of each parameter in the precipitation samples.

Lab. No.	SO ₄ -S		NO ₃ -N		NH ₄ -N		H ⁺ calc		Mg	
	Random error %	Systematic error %	Random error %	Systematic error %	Random error %	Systematic error %	Random error %	Systematic error %	Random error %	Systematic error %
1	0	-1	1	-1	0	1	3	7	2	4
3	0	1	1	5	2	9	8	13	1	0
4	1	0	1	-1	1	0	5	10	6	7
5	1	-1	1	-1	1	2	2	4	1	-1
6	0	1	1	2	5	-8	5	0	3	15
7	2	4	1	4	1	3	6	10	2	-3
8	0	-1	1	0	1	5			1	-1
10	2	1	1	-1	0	4	14	31	4	16
11	3	-1	4	-10	2	0	3	6	4	1
12	1	0	0	0	40	11	2	3	1	1
13	7	-6	3	-1	4	0	5	14	2	1
14	3	0	1	1	0	4	7	22	3	-1
15	1	4	2	4	0	3	5	11	1	4
16	0	2	0	4	4	-3	6	0	1	1
17	1	-7	1	-4	3	11	9	22	3	-6
18	9	-8			17	69	10	-22		
19	2	-1	2	-4	0	9	12	35	0	1
20	5	15	1	-1	1	0	2	-5	5	-17
21	1	-1	1	1	1	-2	5	11	0	0
22	4	-1	5	2	0	3	7	11	4	4
23	1	0	1	1	1	2	0	-12	1	1
24			39	-134	5	19	19	-26	2	1
26	1	2	1	2	1	1	4	6	0	-3
27	0	1	1	0	2	6	5	10	2	5
30	0	0	2	0	2	-1	2	2	2	4
31	1	1	2	1	3	4	9	0	1	-3
32										
33	1	-1	1	1	3	-2	10	-1	3	1
34	1	0	1	1	1	-3	5	10	31	-7
35	0	-2	1	-1	3	0	5	18	2	-2
36	1	1	1	3	1	0	7	31	1	2
37										
38	2	9	11	16	2	4	6	3	4	8
39	2	-6	2	-4	2	-9	64	0	0	2
40			8	-47	5	-1	43	-200	10	8
104	1	1	1	0	1	-2	7	13	1	2
105	1	4	2	11	2	-3	8	5	2	-27
106					1	0	4	12		
107	1	-2	2	-1	2	8	3	-16	2	-8
109	2	8	2	7	3	0	14	11	2	4
111	1	5	1	3	0	1	9	12	5	8
112	1	1	3	-9	0	-7	5	19	2	3
113			1	-3	2	-2	6	55	3	6
114	1	0	1	1	0	0	8	4	7	1
115	3	-2	6	3	2	10	20	37	6	37
116	7	-24	4	24	6	-36	13	14	5	-8
117	2	9	25	5	1	3	37	18	3	7
118	1	-4	3	0	8	-28	5	14	2	0
119	11	-17	1	4	3	16	7	-8	31	40
121	2	-3	3	3	1	7	1139	-902	49	6
124	2	8	4	5	16	5	8	8	16	-8
126	2	3	2	4	2	6	8	11	3	8
130	32	-175	2	-1	11	-11	7	3	4	-15
131	1	2	1	7	1	-1	3	5	2	-8
133	7	-16	7	-1	3	2	10	20	3	-7
134	1	1	1	3	2	12				
135	0	0	2	2	1	1	7	-1	7	-23
136	2	0	3	6	4	1	2	8	3	-30

Table 34, cont.

Lab. No.	Na		Cl		Ca		K		Cond.	
	Random error %	Systematic error %	Random error %	Systematic error %	Random error %	Systematic error %	Random error %	Systematic error %	Random error %	Systematic error %
1	1	5	5	14	1	8	8	2	2	-4
3	1	1	2	9	2	4	2	2	2	0
4	4	-7	4	-2	2	5	7	11	3	4
5	0	0	2	1	1	0	9	8	2	1
6	0	3	2	5	6	-19	2	7	3	6
7	1	0	2	7	2	1	3	3	2	4
8	2	2	2	4	1	-3	2	1		
10	4	27	5	-3	6	27	8	18	1	0
11	3	10	2	-7	2	2	7	0	4	9
12	1	2	1	-4	1	7	3	8	1	-3
13	2	1	1	3	5	0	1	5	2	6
14	0	2	4	1	2	0	2	2	2	2
15	1	3	1	3	5	4	4	-1	2	1
16	1	3	7	5	1	2	5	9	2	1
17	0	-5	1	-2	6	-16	6	40	3	6
18			8	0					8	15
19	2		10	8	2	-5	4	5	2	4
20	6	-10	6	7	9	-8	6	11	4	0
21	2	0	2	1	2	0	10	10	1	0
22	1	5	13	22	19	-24	8	-7	2	-7
23	1	3	1	0	1	1	4	11	1	-2
24	2	5	19	47	2	4	4	8	16	
26	0	0	0	1	1	5	1	-4		
27	2	2	1	1	0	0	4	4	1	-1
30	1	1	2	4	4	2	2	9	1	4
31	2	3	3	1	0	1	2	3	4	1
32										
33	3	6	6	-61	4	17	4	4	5	-1
34	3	0	3	6	130	-68	13	-11	4	6
35	1	4	0	4	1	-3	3	4	2	8
36	0	0	2	4	0	0	2	-1	8	14
37										
38	3	7	13	-26	5	24	4	-1	5	
39	1	1	3	5	1	-2	1	1	7	9
40	9	39	23	7	6	10	19	49	4	13
104	1	5	6	4	2	11	4	8	4	0
105	8	0	6	-2	41	-51	1	20	11	-9
106									3	4
107	1	-13	4	27	1	2	2	26	1	2
109	3	10	11	26	4	-3	9	0	2	3
111	6	21	7	3	4	9	6	15	3	4
112	1	5	23	24	2	-3	1	0	2	7
113					6	15	10	7	3	1
114	3	1	2	3	19	5	6	-3	6	8
115	4	-12	9	-27	96	1	13	-14	46	11
116	10	-7	9	25	20	-23	22	-110	15	2
117	2	7	21	20	2	13	3	6	3	7
118	3	-3	5	17	10	-6	6	-10	5	14
119	1	4	7	-10	2	5			1	2
121	3	-1	11	-7	4	-5	20	-21	3	7
124	4	-6	14	31	9	2	15	14	3	3
126	3	11	7	26	9	24	14	-29	2	5
130	3	-32	14	-44	6	-44	6	2	2	2
131	5	3	6	-5	10	-3	8	-12	19	62
133	8	12	22	-38	14	0	106	-230	2	3
134			4	1					7	29
135	3	9	4	0	3	10	6	11	2	-4
136	12	-31	4	11	2	-33	3	-33	2	0

Appendix 2

Figures

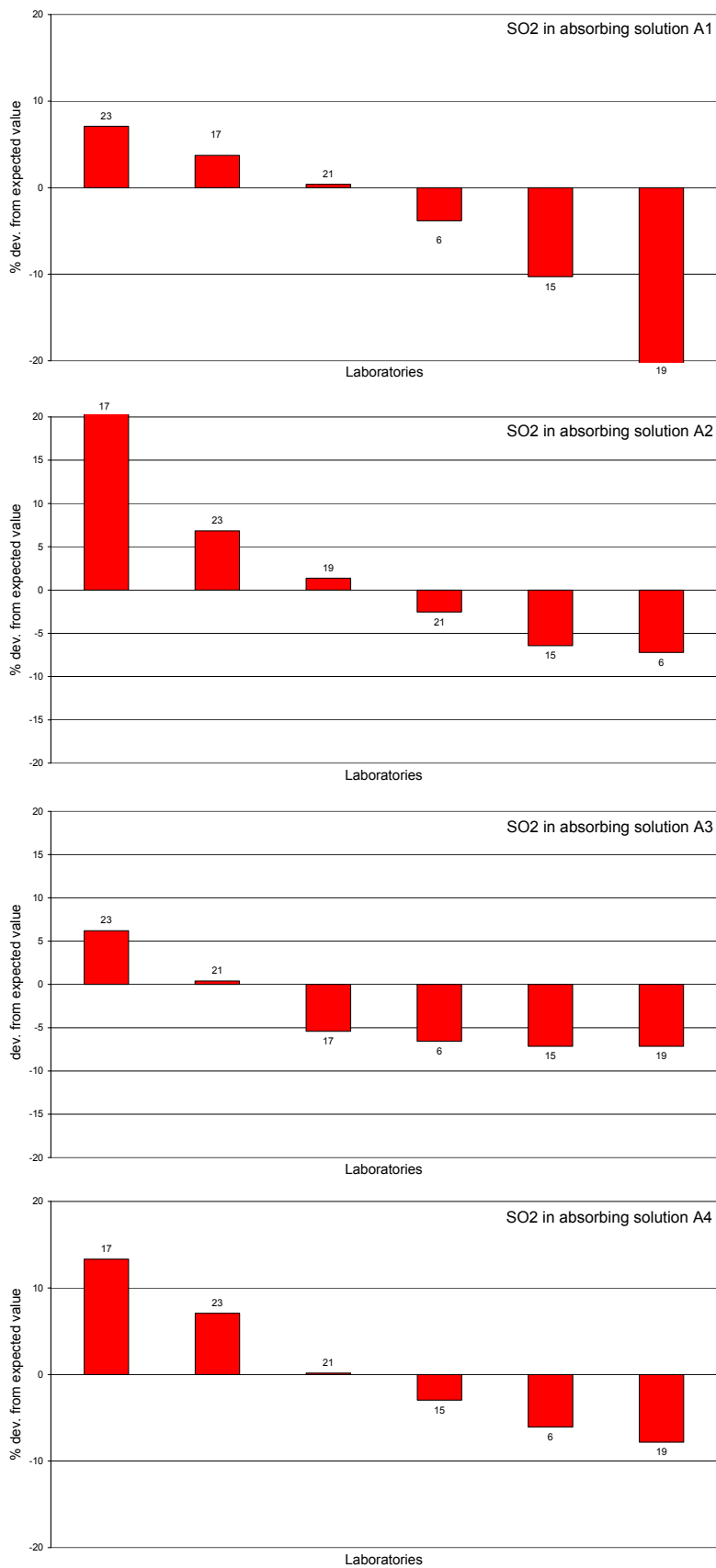


Figure 1: SO₂ in absorbing solution.

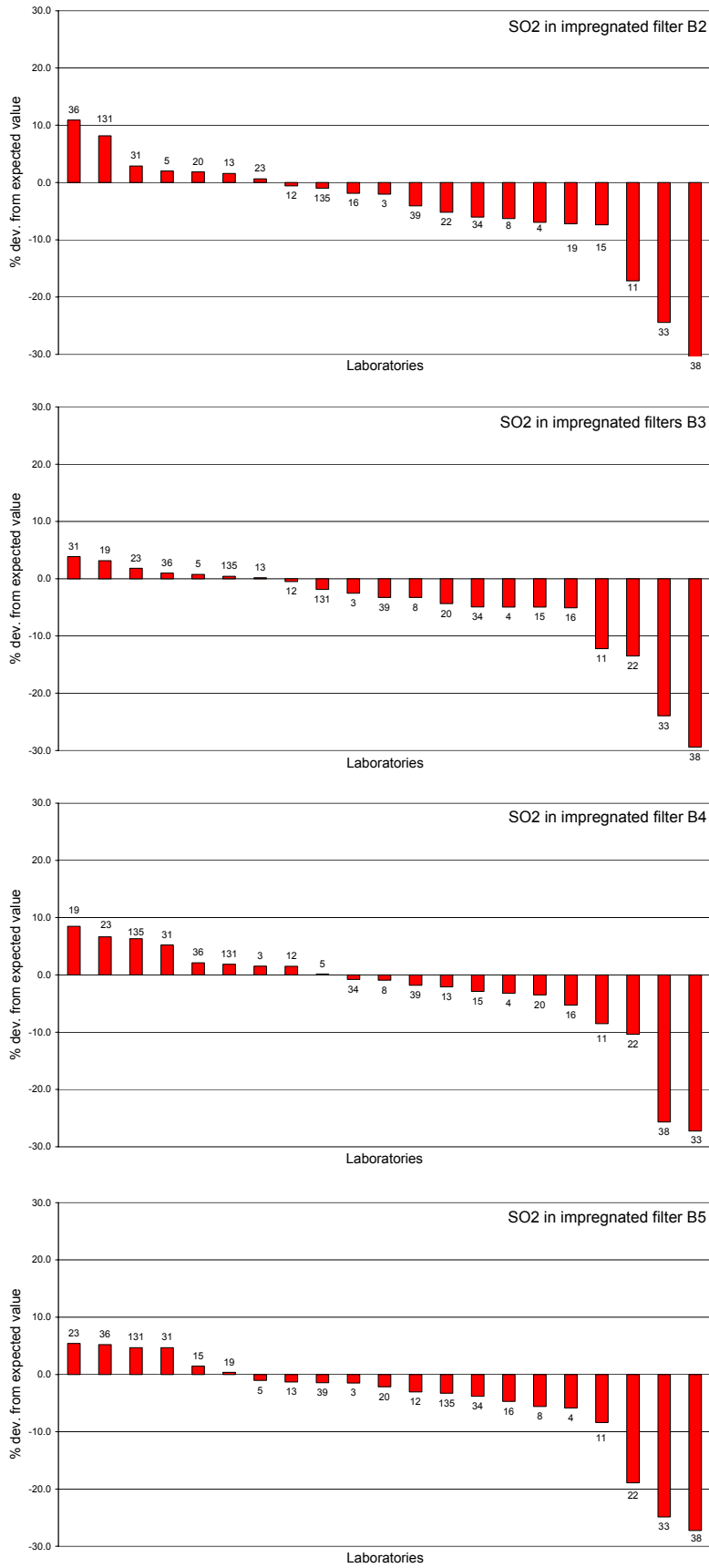


Figure 2: SO₂ in impregnated filter.

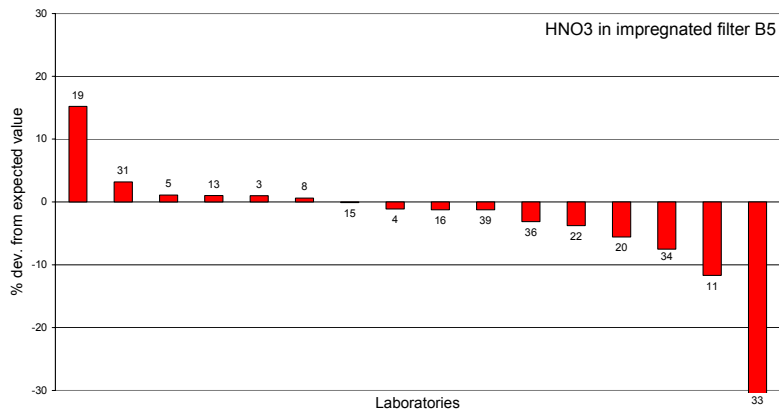
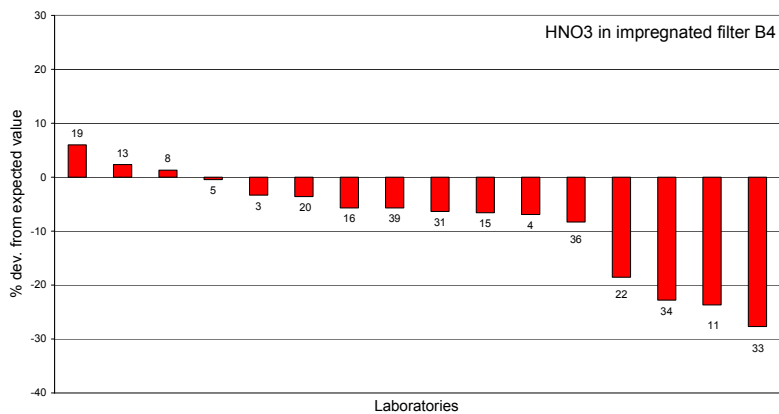
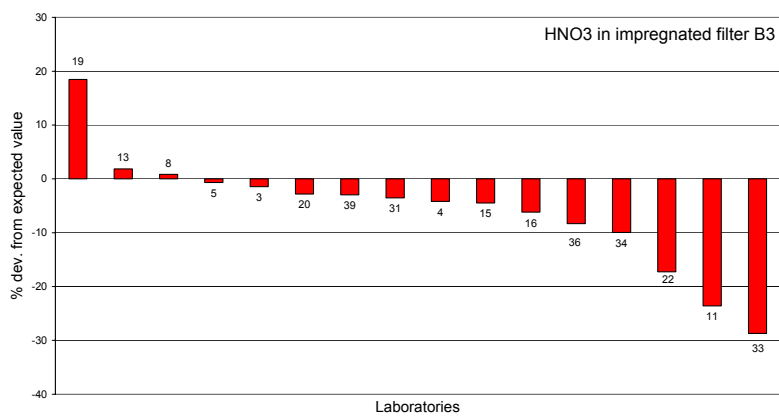
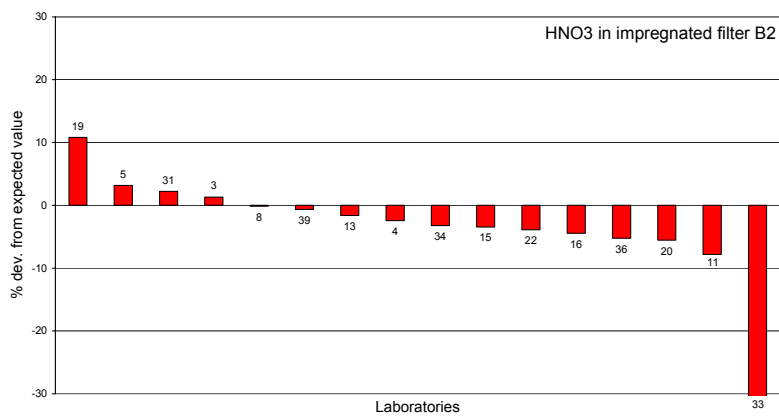


Figure 3: HNO₃ in impregnated filter.

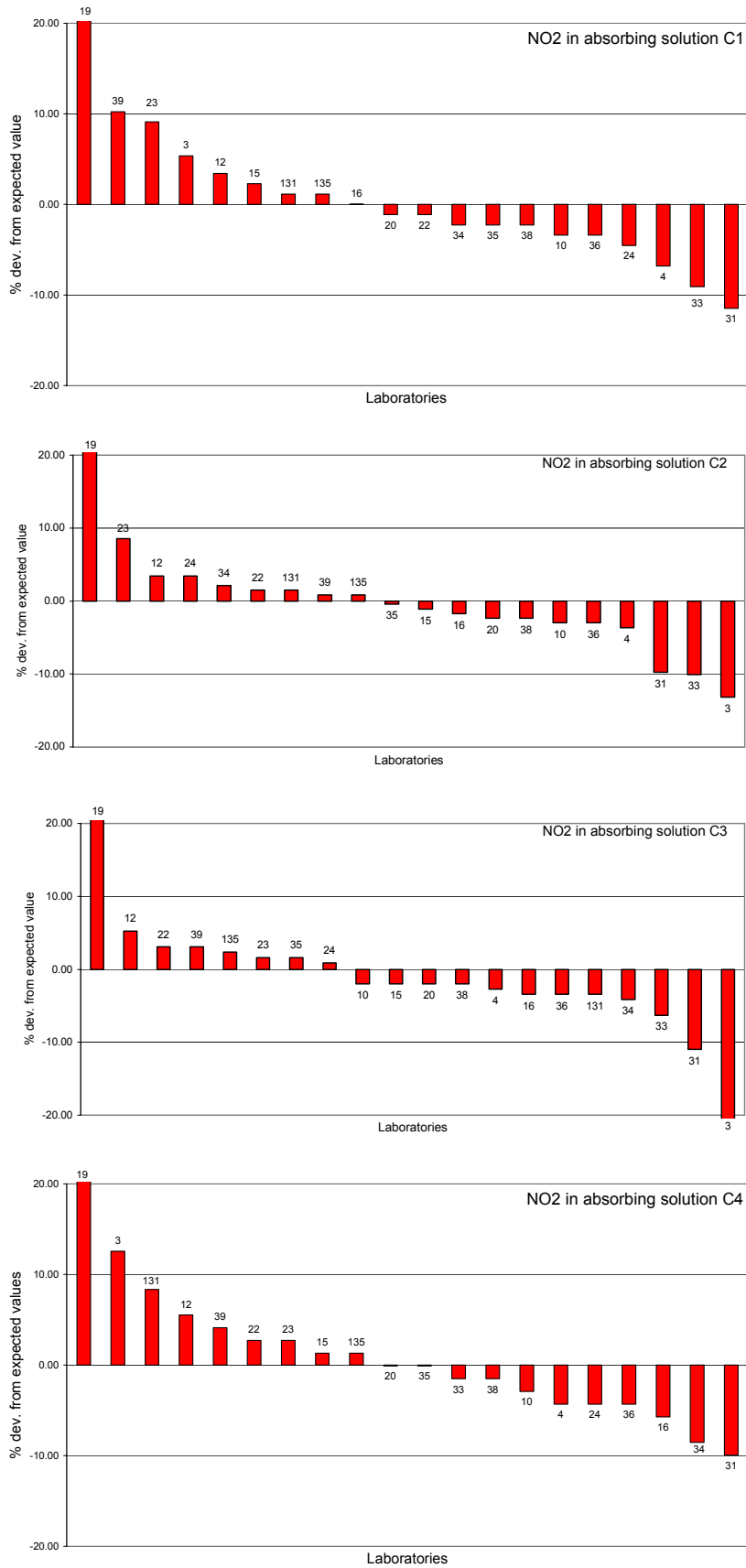


Figure 4: NO₂ in absorbing solution.

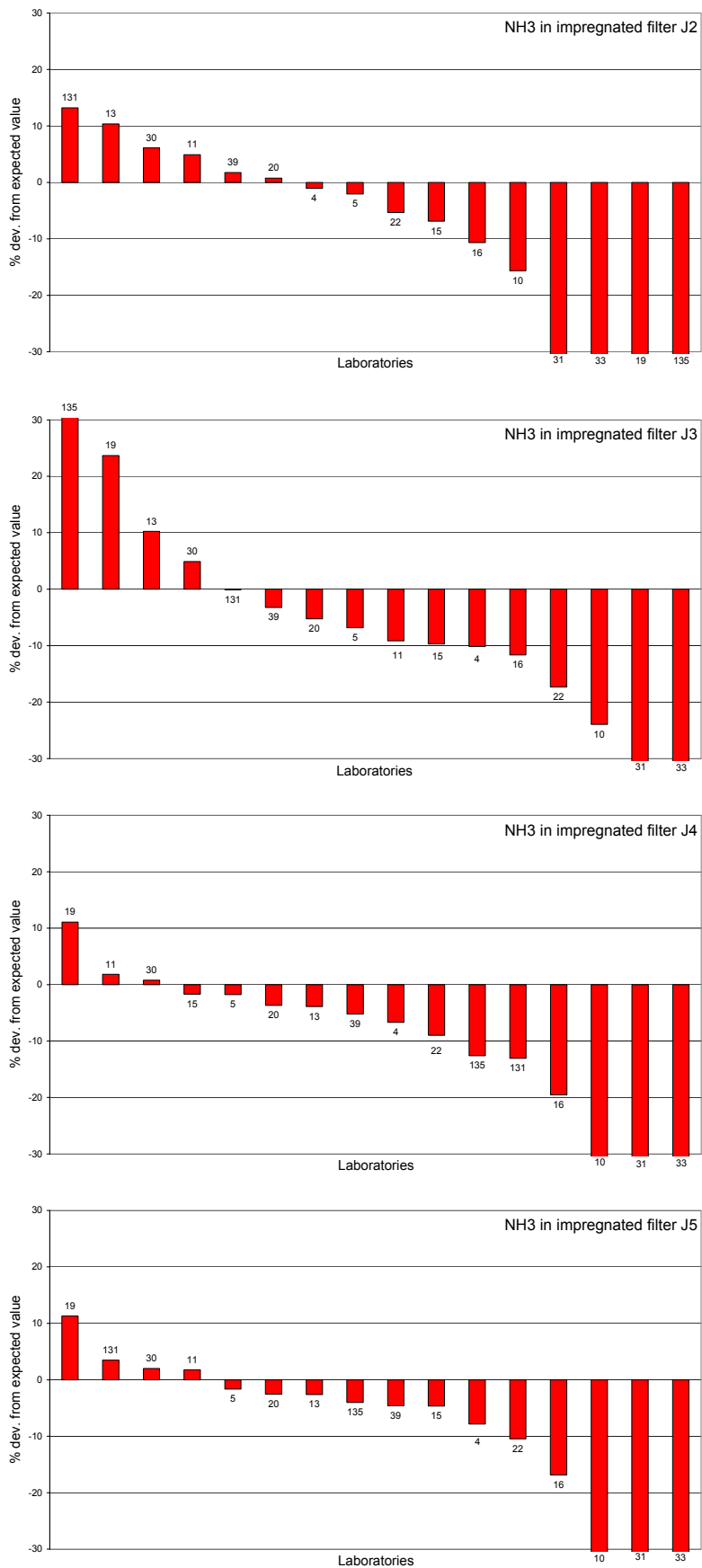


Figure 5: NH₃ in impregnated filter.

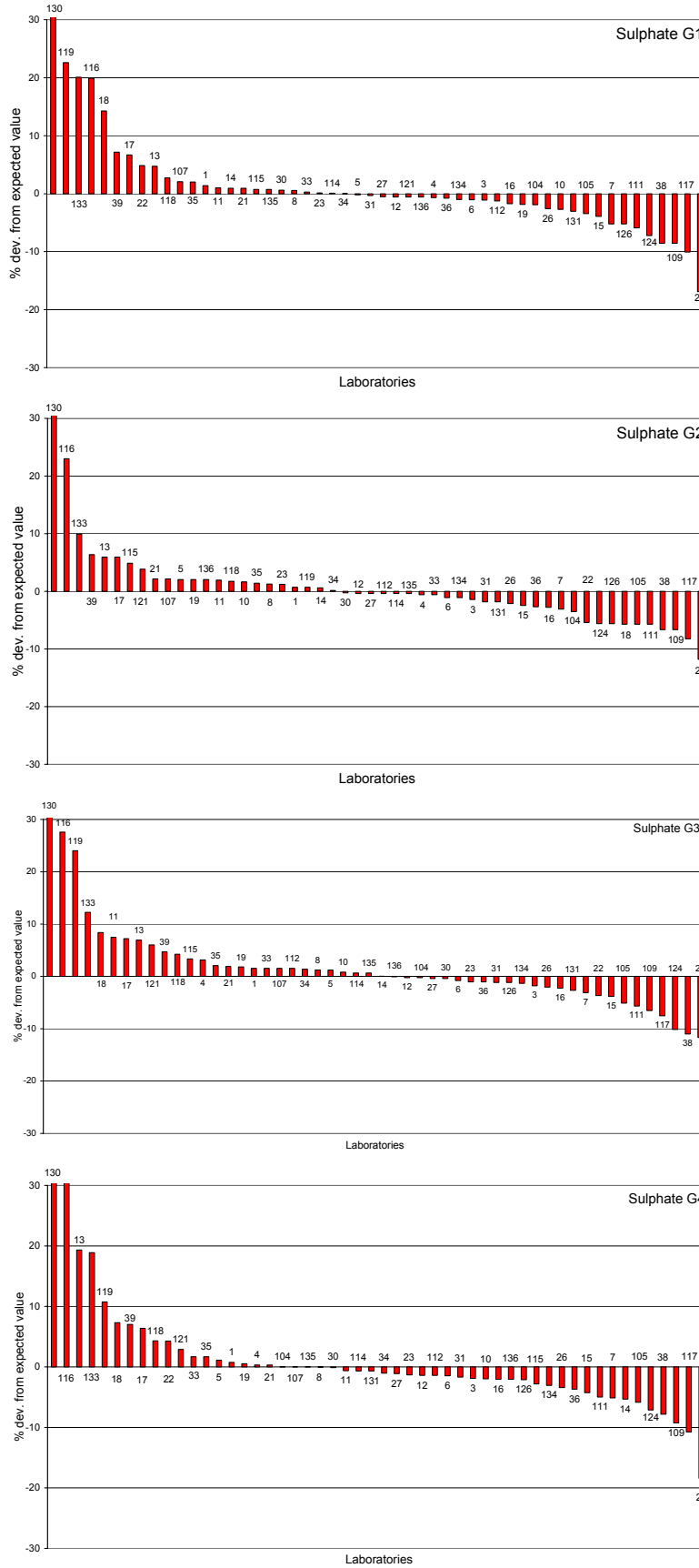


Figure 6: Percent deviation from theoretical value for sulphate.

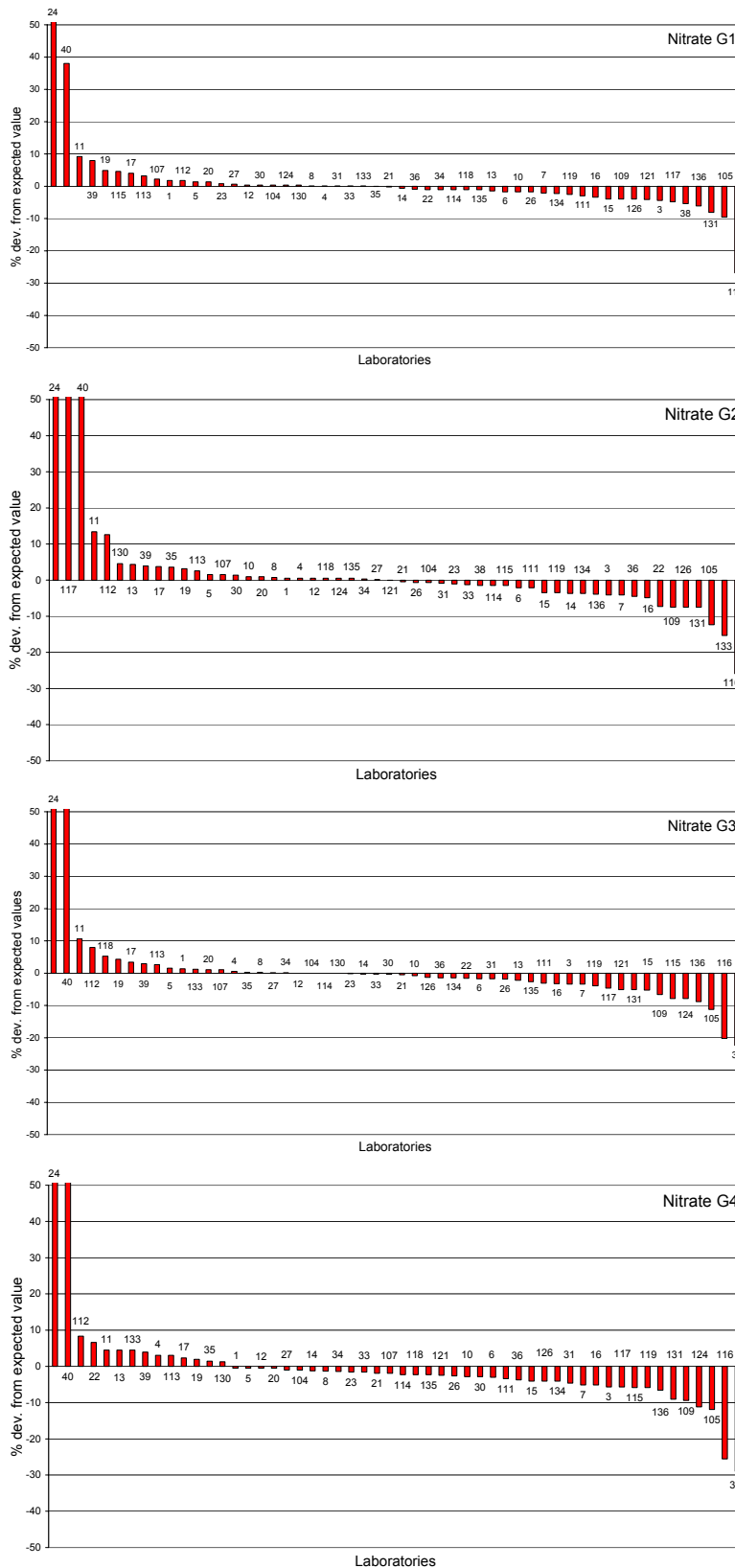


Figure 7: Percent deviation from theoretical value for nitrate.

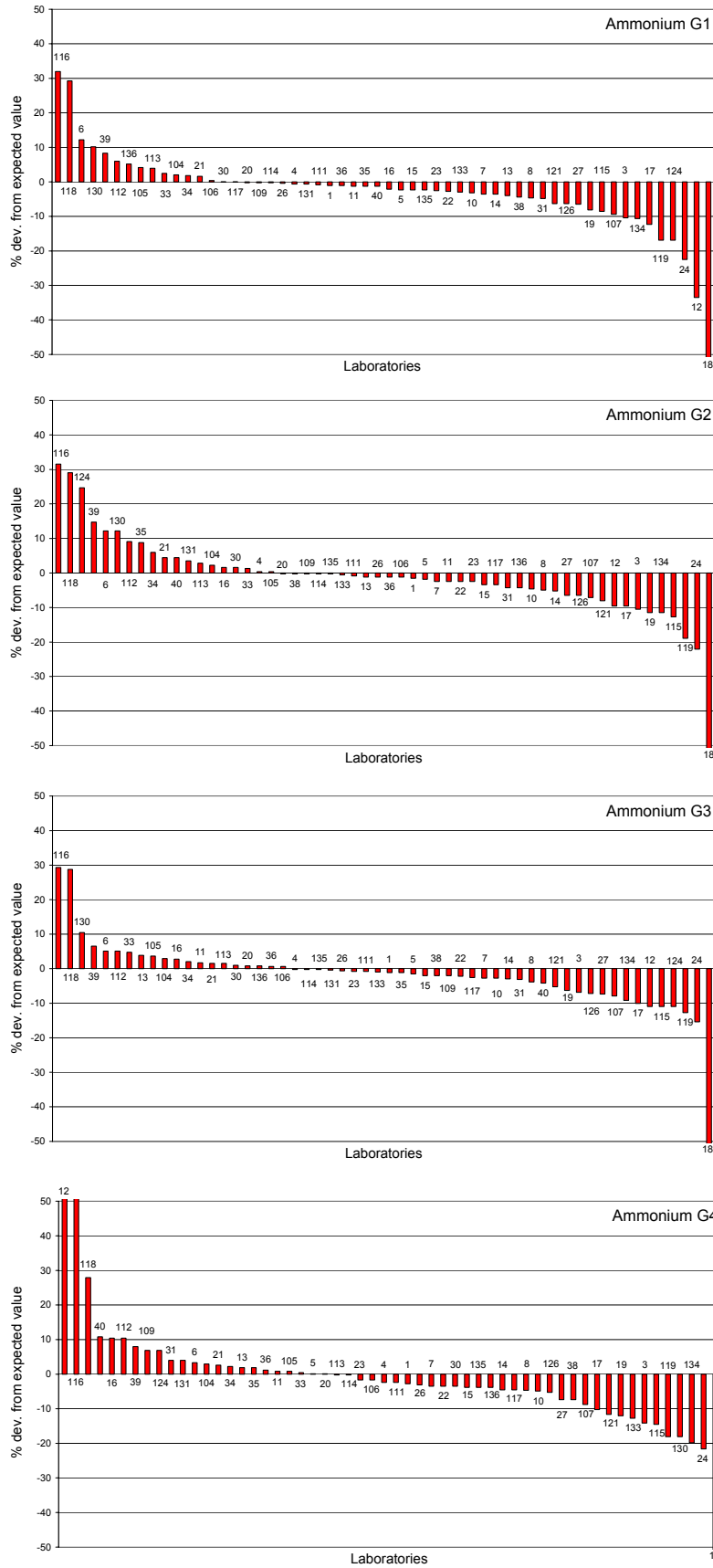


Figure 8: Percent deviation from theoretical value for ammonium.

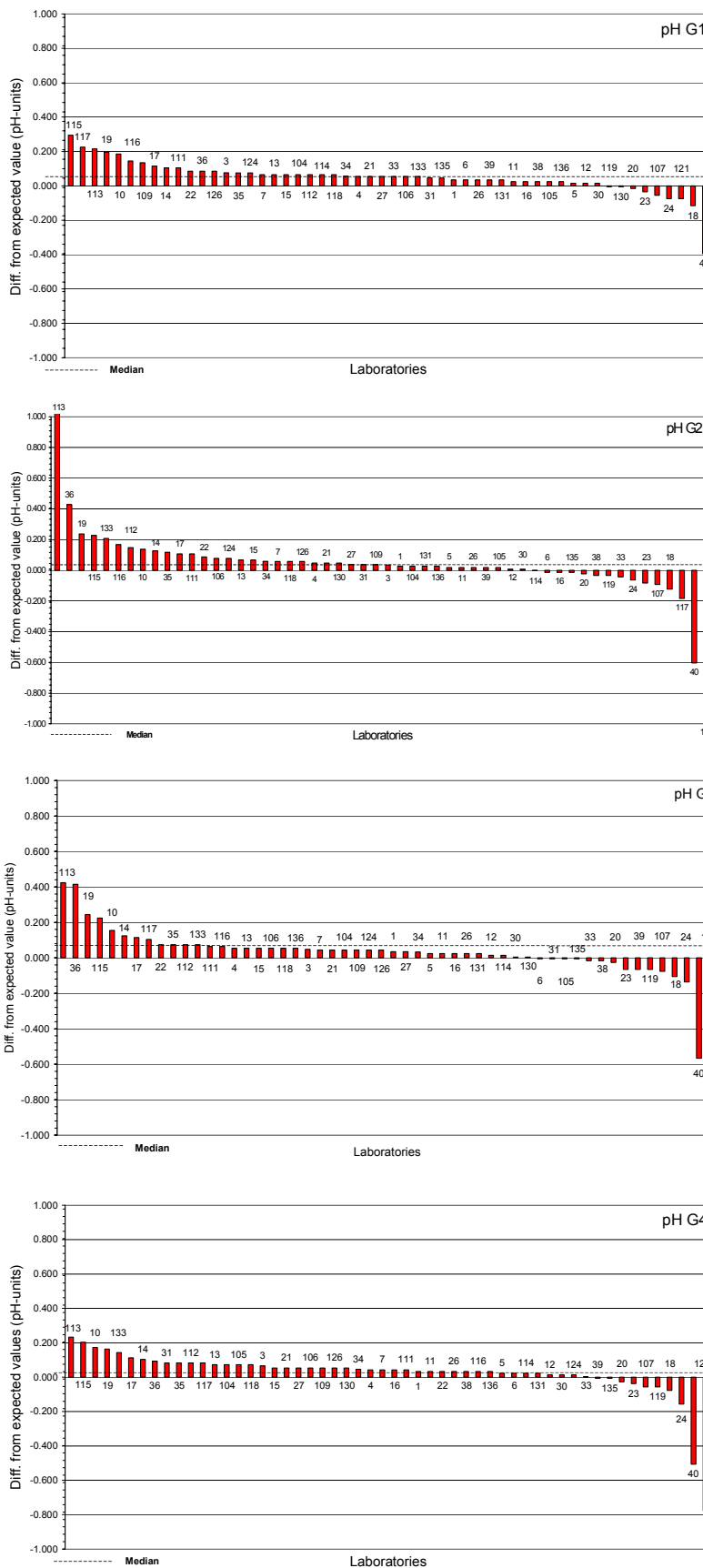


Figure 9: Percent deviation from theoretical value for pH.

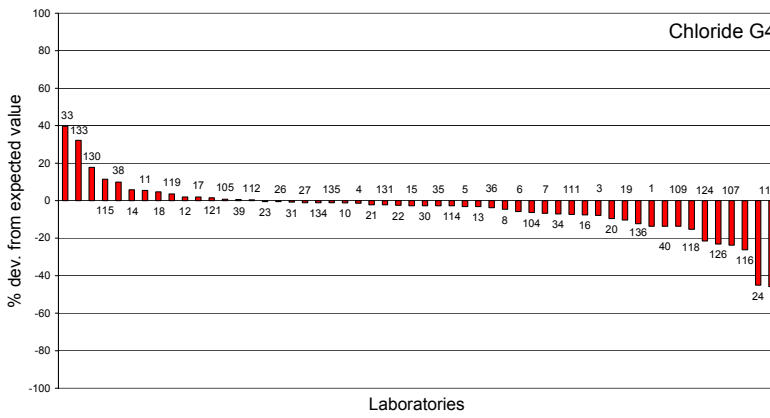
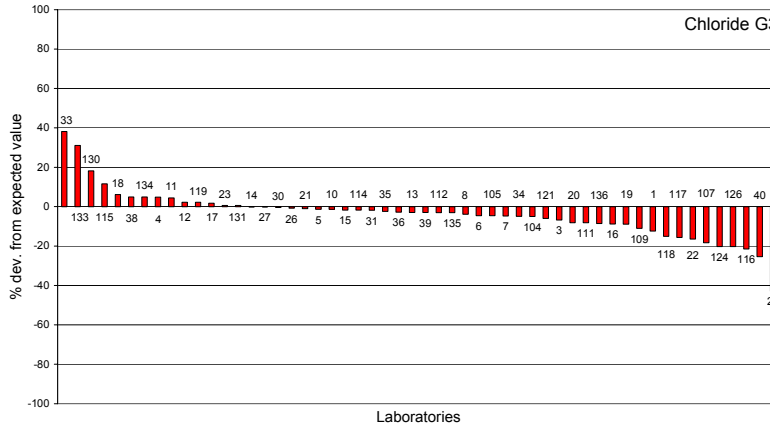
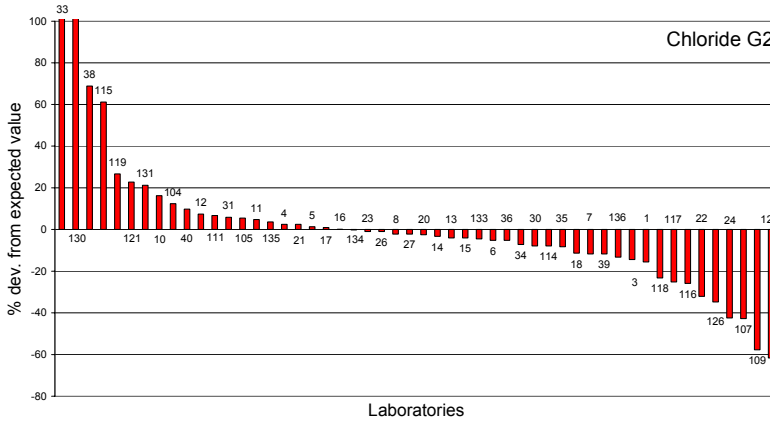
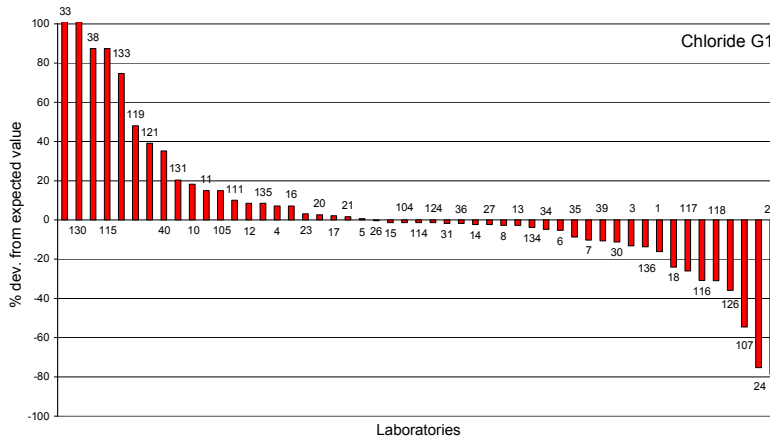


Figure 10: Percent deviation from theoretical value for chloride.

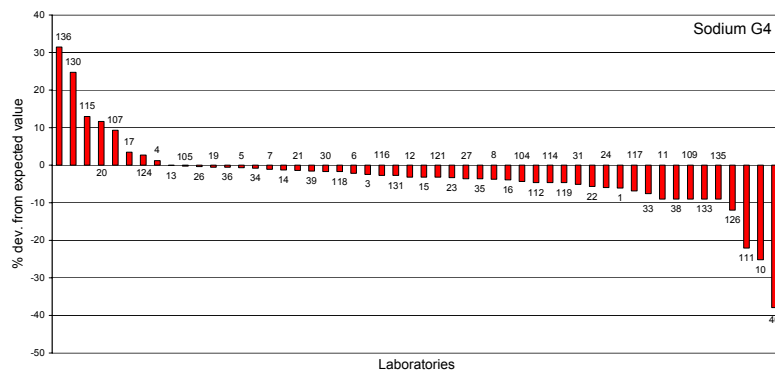
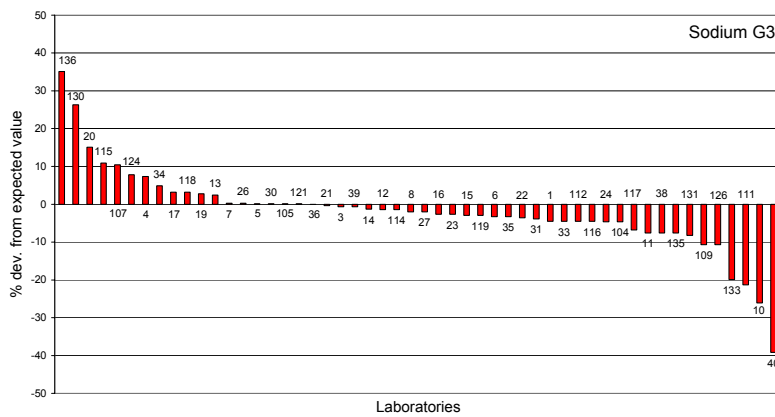
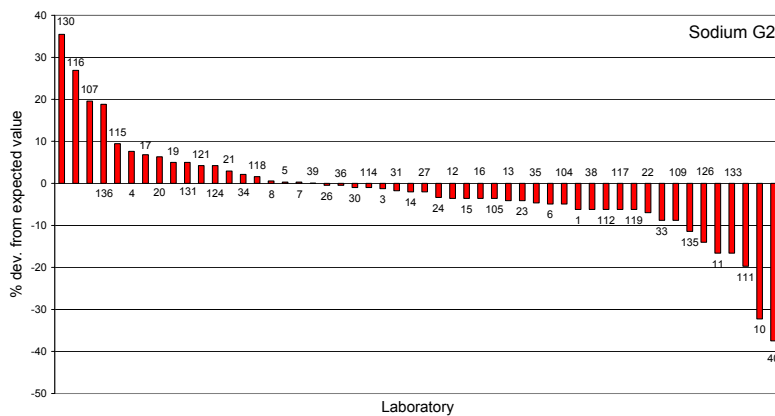
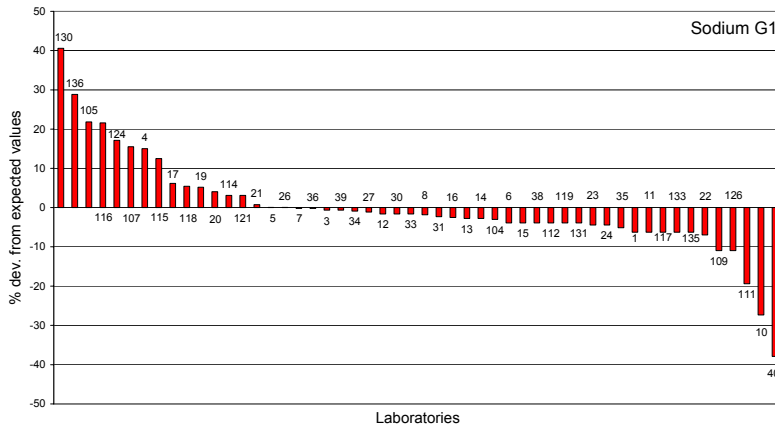


Figure 11: Percent deviation from theoretical value for sodium.

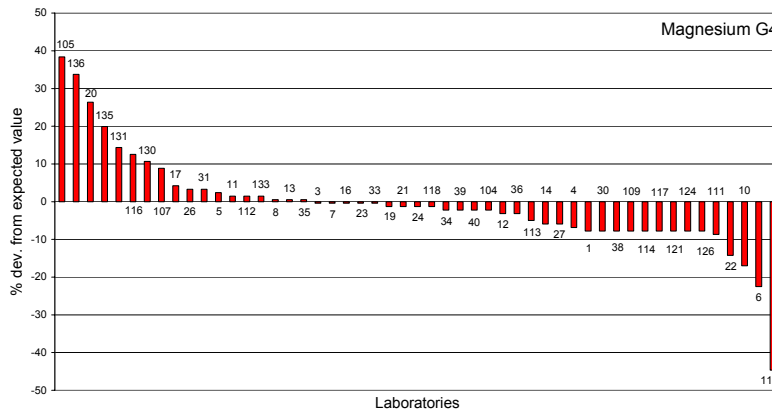
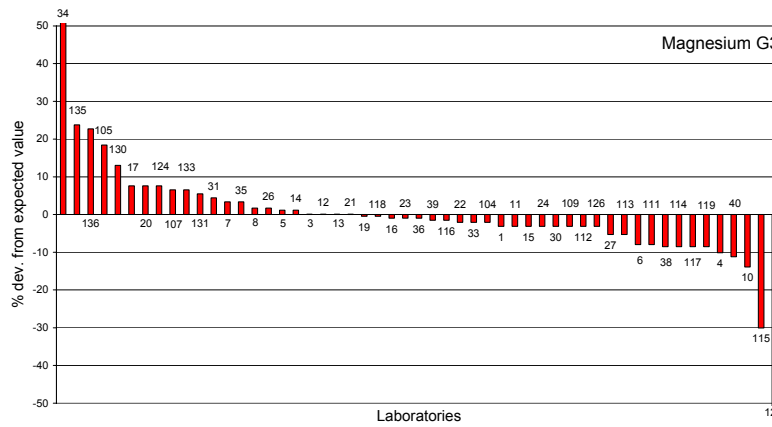
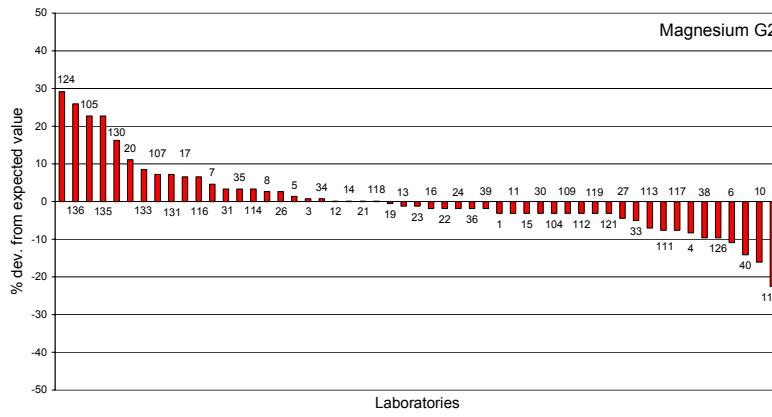
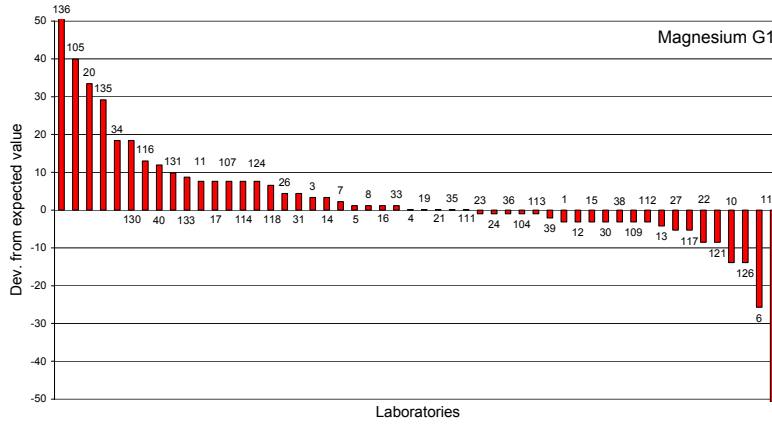


Figure 12: Percent deviation from theoretical value for magnesium.

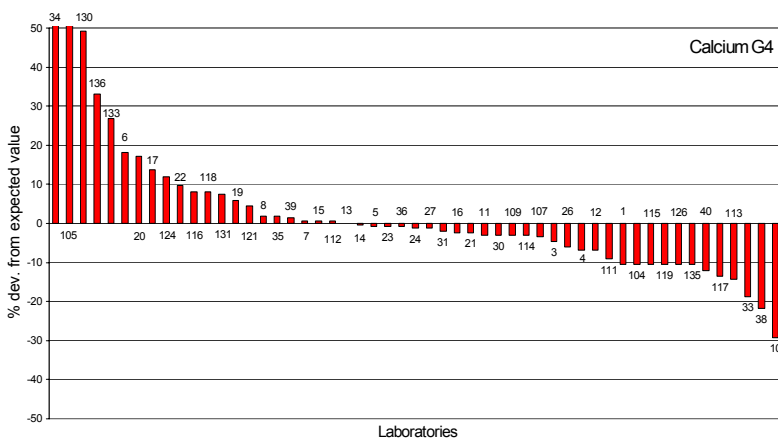
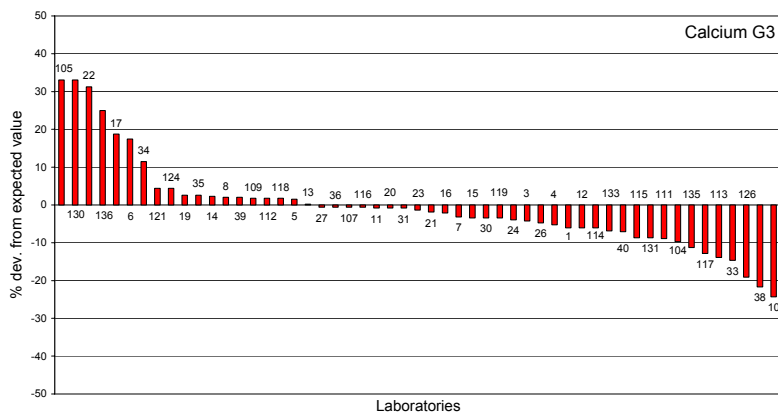
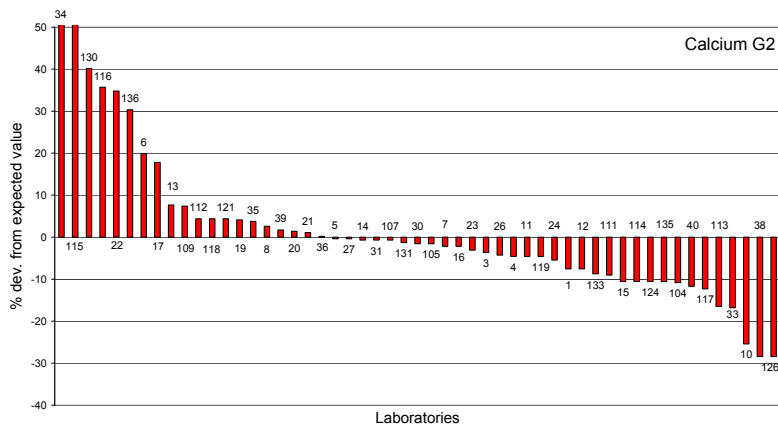
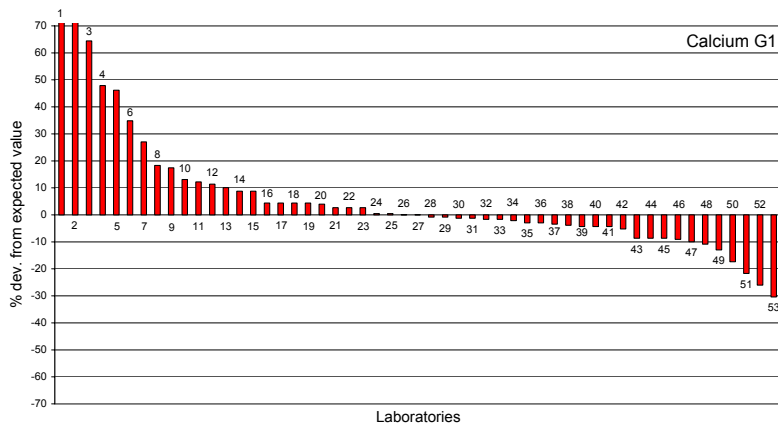


Figure 13: Percent deviation from theoretical value for calcium.

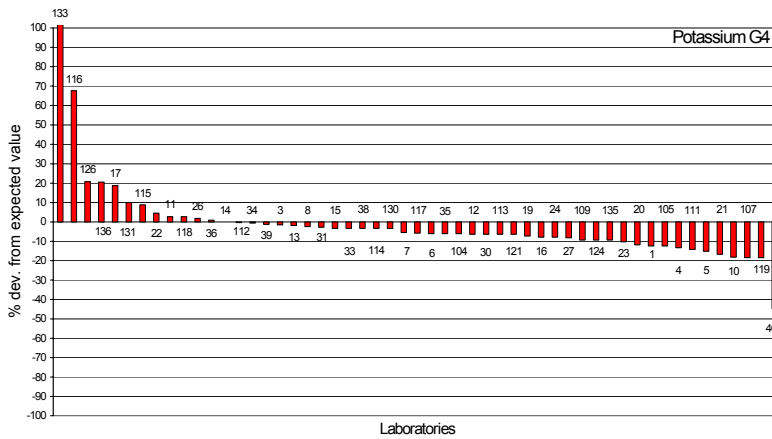
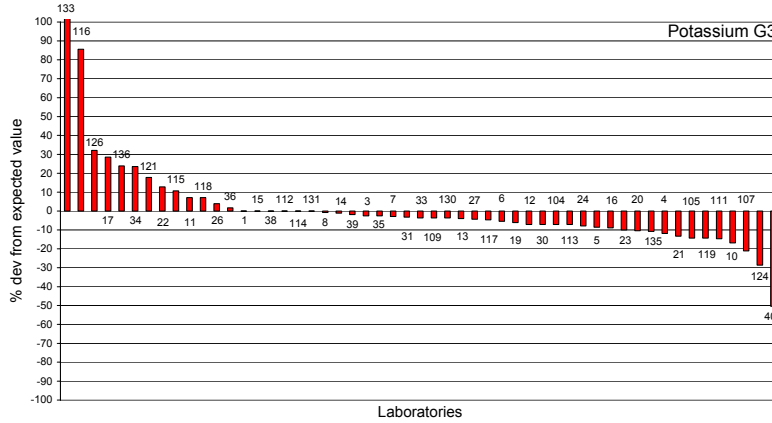
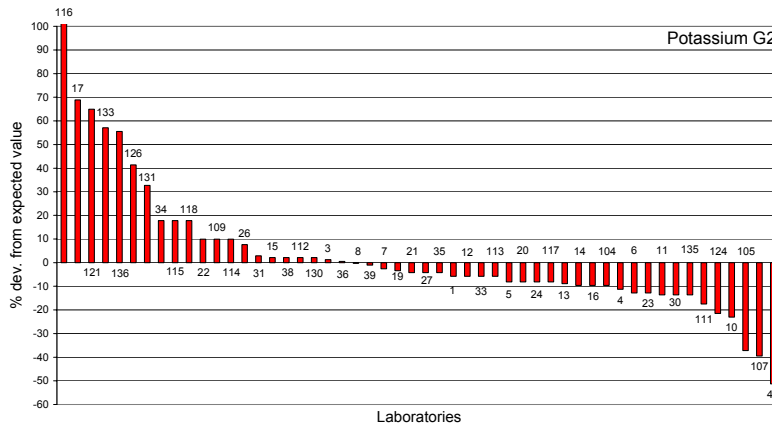
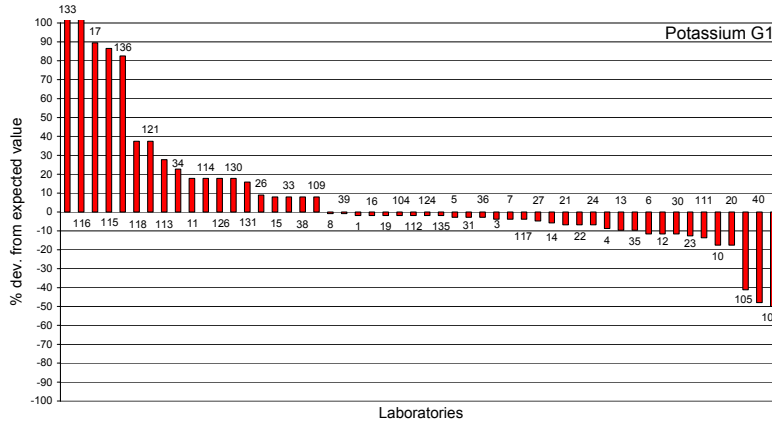


Figure 14: Percent deviation from theoretical value for potassium.

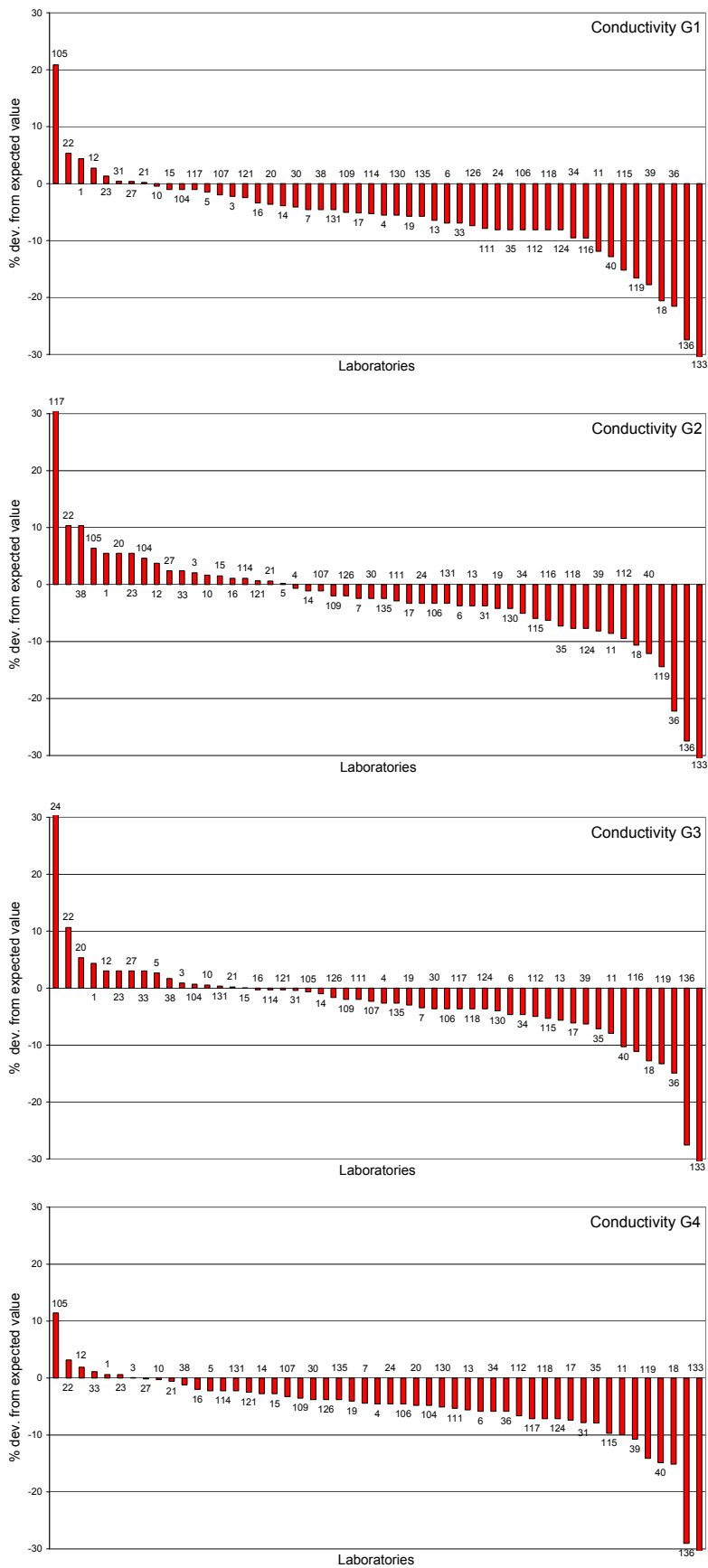


Figure 15: Percent deviation from theoretical value for conductivity.

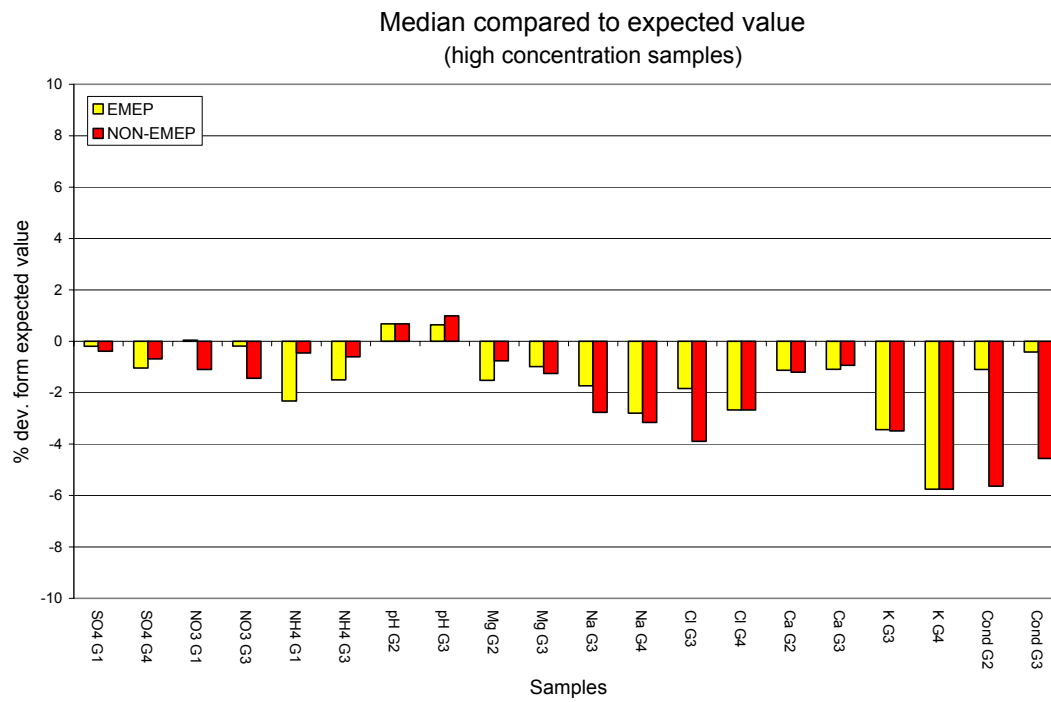
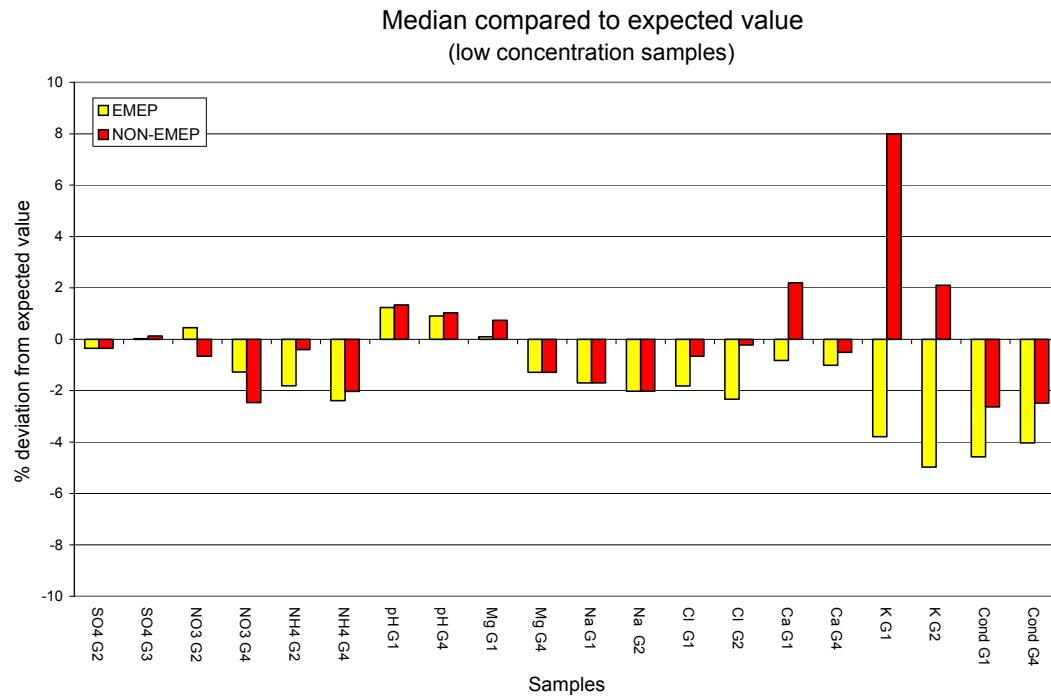


Figure 16: The median compared to theoretical value.