

## EMEP – 34<sup>th</sup> intercomparison of analytical methods

Laboratory 8, Umweltbundesamt, Langen (Germany)

### Nitrogen dioxide in absorbing solution (C-samples)

Sample name	Determinand	Reported value	Expected value	Mean value	Standard deviation	Z score	EMEP quality norm <sup>⌘</sup>
C1	NO <sub>2</sub>	0.144	0.146	0.138	0.02	0.294	S
C2	NO <sub>2</sub>	0.134	0.132	0.126	0.015	0.537	S
C3	NO <sub>2</sub>	0.059	0.059	0.062	0.015	-0.188	S
C4	NO <sub>2</sub>	0.073	0.073	0.077	0.02	-0.194	S

⌘ EMEP quality norm; the letters in the column indicates:

S – Satisfactory: Your result deviates less than  $\pm 10\%$  of the expected value

Q – Questionable: Your result deviates between  $\pm 10\text{-}20\%$  of the expected value

U – Unsatisfactory: Your result deviates more than  $\pm 20\%$  of the expected value

B – Blank: You reported either no value or the detection limit

Please check the EMEP intercalibration website for more statistics, Youden plots, updated expected values ect: <http://www.nilu.no/projects/ccc/intercomparison.html>

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Framsenteret / The Fram Centre  
NO-9296 TROMSØ, Norway  
Phone: +47 77 75 03 75/Fax: +47 77 75 03 76  
Besøk/visit: Hjalmar Johansens gt. 14, 9007 Tromsø

**e-mail:** nilu@nilu.no  
nilu-tromso@nilu.no  
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## EMEP – 34<sup>th</sup> intercomparison of analytical methods

Laboratory 10, Institute for Atmospheric Physics (Hungary)

### Nitrogen dioxide in absorbing solution (C-samples)

Sample name	Determinand	Reported value	Expected value	Mean value	Standard deviation	Z score	EMEP quality norm <sup>⌘</sup>
C1	NO <sub>2</sub>	0.142	0.146	0.138	0.02	0.194	S
C2	NO <sub>2</sub>	0.125	0.132	0.126	0.015	-0.075	S
C3	NO <sub>2</sub>	0.055	0.059	0.062	0.015	-0.456	S
C4	NO <sub>2</sub>	0.068	0.073	0.077	0.02	-0.449	S

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NO-9296 TROMSØ, Norway  
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## EMEP – 34<sup>th</sup> intercomparison of analytical methods

Laboratory 12, Met Eireann, Dublin (Ireland)

### Nitrogen dioxide in absorbing solution (C-samples)

Sample name	Determinand	Reported value	Expected value	Mean value	Standard deviation	Z score	EMEP quality norm <sup>⌘</sup>
C1	NO <sub>2</sub>	0.149	0.146	0.138	0.02	0.544	S
C2	NO <sub>2</sub>	0.133	0.132	0.126	0.015	0.469	S
C3	NO <sub>2</sub>	0.065	0.059	0.062	0.015	0.213	Q
C4	NO <sub>2</sub>	0.081	0.073	0.077	0.02	0.214	Q

⌘ EMEP quality norm; the letters in the column indicates:

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## EMEP – 34<sup>th</sup> intercomparison of analytical methods

Laboratory 15, Norwegian Institute for Air Research NILU (Norway)

### Nitrogen dioxide in absorbing solution (C-samples)

Sample name	Determinand	Reported value	Expected value	Mean value	Standard deviation	Z score	EMEP quality norm <sup>⌘</sup>
C1	NO <sub>2</sub>	0.125	0.146	0.138	0.02	-0.655	Q
C2	NO <sub>2</sub>	0.113	0.132	0.126	0.015	-0.891	Q
C3	NO <sub>2</sub>	0.059	0.059	0.062	0.015	-0.188	S
C4	NO <sub>2</sub>	0.069	0.073	0.077	0.02	-0.398	S

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Framsenteret / The Fram Centre  
NO-9296 TROMSØ, Norway  
Phone: +47 77 75 03 75/Fax: +47 77 75 03 76  
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## EMEP – 34<sup>th</sup> intercomparison of analytical methods

Laboratory 16, Institute of Meteorology and Water Management, Warsaw (Poland)

### Nitrogen dioxide in absorbing solution (C-samples)

Sample name	Determinand	Reported value	Expected value	Mean value	Standard deviation	Z score	EMEP quality norm <sup>⌘</sup>
C1	NO <sub>2</sub>	0.14	0.146	0.138	0.02	0.094	S
C2	NO <sub>2</sub>	0.125	0.132	0.126	0.015	-0.075	S
C3	NO <sub>2</sub>	0.059	0.059	0.062	0.015	-0.188	S
C4	NO <sub>2</sub>	0.072	0.073	0.077	0.02	-0.245	S

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NO-9296 TROMSØ, Norway  
Phone: +47 77 75 03 75/Fax: +47 77 75 03 76  
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## EMEP – 34<sup>th</sup> intercomparison of analytical methods

Laboratory 19, Centro Nacional de Sanidad Ambiental (Spain)

### Nitrogen dioxide in absorbing solution (C-samples)

Sample name	Determinand	Reported value	Expected value	Mean value	Standard deviation	Z score	EMEP quality norm <sup>⌘</sup>
C1	NO <sub>2</sub>	0.143	0.146	0.138	0.02	0.244	S
C2	NO <sub>2</sub>	0.129	0.132	0.126	0.015	0.197	S
C3	NO <sub>2</sub>	0.058	0.059	0.062	0.015	-0.255	S
C4	NO <sub>2</sub>	0.071	0.073	0.077	0.02	-0.296	S

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## EMEP – 34<sup>th</sup> intercomparison of analytical methods

Laboratory 20, Swedish Environmental Research Institute IVL, Gothenburg (Sweden)

### Nitrogen dioxide in absorbing solution (C-samples)

Sample name	Determinand	Reported value	Expected value	Mean value	Standard deviation	Z score	EMEP quality norm <sup>⌘</sup>
C1	NO <sub>2</sub>	0.136	0.146	0.138	0.02	-0.106	S
C2	NO <sub>2</sub>	0.125	0.132	0.126	0.015	-0.075	S
C3	NO <sub>2</sub>	0.055	0.059	0.062	0.015	-0.456	S
C4	NO <sub>2</sub>	0.069	0.073	0.077	0.02	-0.398	S

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Framsenteret / The Fram Centre  
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Besøk/visit: Hjalmar Johansens gt. 14, 9007 Tromsø

**e-mail:** nilu@nilu.no  
nilu-tromso@nilu.no  
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## EMEP – 34<sup>th</sup> intercomparison of analytical methods

Laboratory 23, Ricardo-AEA Limited (United Kingdom)

### Nitrogen dioxide in absorbing solution (C-samples)

Sample name	Determinand	Reported value	Expected value	Mean value	Standard deviation	Z score	EMEP quality norm <sup>⌘</sup>
C1	NO <sub>2</sub>	0.139	0.146	0.138	0.02	0.039	S
C2	NO <sub>2</sub>	0.125	0.132	0.126	0.015	-0.087	S
C3	NO <sub>2</sub>	0.055	0.059	0.062	0.015	-0.455	S
C4	NO <sub>2</sub>	0.067	0.073	0.077	0.02	-0.515	S

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Framsenteret / The Fram Centre  
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## EMEP – 34<sup>th</sup> intercomparison of analytical methods

Laboratory 31, Slovak Hydrometeorological Institute (Slovakia)

### Nitrogen dioxide in absorbing solution (C-samples)

Sample name	Determinand	Reported value	Expected value	Mean value	Standard deviation	Z score	EMEP quality norm <sup>⌘</sup>
C1	NO <sub>2</sub>	0.147	0.146	0.138	0.02	0.444	S
C2	NO <sub>2</sub>	0.132	0.132	0.126	0.015	0.401	S
C3	NO <sub>2</sub>	0.057	0.059	0.062	0.015	-0.322	S
C4	NO <sub>2</sub>	0.072	0.073	0.077	0.02	-0.245	S

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NO-2027 KJELLER, Norway  
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Framsenteret / The Fram Centre  
NO-9296 TROMSØ, Norway  
Phone: +47 77 75 03 75/Fax: +47 77 75 03 76  
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## EMEP – 34<sup>th</sup> intercomparison of analytical methods

Laboratory 32, Atmospheric Pollution Research Laboratory, Institute of Physics, Vilnius (Lithuania)

### Nitrogen dioxide in absorbing solution (C-samples)

Sample name	Determinand	Reported value	Expected value	Mean value	Standard deviation	Z score	EMEP quality norm <sup>⌘</sup>
C1	NO <sub>2</sub>	0.146	0.146	0.138	0.02	0.394	S
C2	NO <sub>2</sub>	0.136	0.132	0.126	0.015	0.673	S
C3	NO <sub>2</sub>	0.057	0.059	0.062	0.015	-0.322	S
C4	NO <sub>2</sub>	0.073	0.073	0.077	0.02	-0.194	S

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## EMEP – 34<sup>th</sup> intercomparison of analytical methods

Laboratory 33, Environmental Pollution Observ. Centre (Latvia)

### Nitrogen dioxide in absorbing solution (C-samples)

Sample name	Determinand	Reported value	Expected value	Mean value	Standard deviation	Z score	EMEP quality norm <sup>⌘</sup>
C1	NO <sub>2</sub>	< 0.204	0.146	0.138	0.02		B
C2	NO <sub>2</sub>	< 0.204	0.132	0.126	0.015		B
C3	NO <sub>2</sub>	< 0.204	0.059	0.062	0.015		B
C4	NO <sub>2</sub>	< 0.204	0.073	0.077	0.02		B

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U – Unsatisfactory: Your result deviates more than  $\pm 20\%$  of the expected value

B – Blank: You reported either no value or the detection limit

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NO-9296 TROMSØ, Norway  
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**e-mail:** nilu@nilu.no  
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## EMEP – 34<sup>th</sup> intercomparison of analytical methods

Laboratory 39, Environmental Monitoring Laboratory, Institute of Environmental Protection (Poland)

### Nitrogen dioxide in absorbing solution (C-samples)

Sample name	Determinand	Reported value	Expected value	Mean value	Standard deviation	Z score	EMEP quality norm <sup>⌘</sup>
C1	NO <sub>2</sub>	0.146	0.146	0.138	0.02	0.394	S
C2	NO <sub>2</sub>	0.132	0.132	0.126	0.015	0.401	S
C3	NO <sub>2</sub>	0.061	0.059	0.062	0.015	-0.054	S
C4	NO <sub>2</sub>	0.07	0.073	0.077	0.02	-0.347	S

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U – Unsatisfactory: Your result deviates more than  $\pm 20\%$  of the expected value

B – Blank: You reported either no value or the detection limit

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NO-9296 TROMSØ, Norway  
Phone: +47 77 75 03 75/Fax: +47 77 75 03 76  
Besøk/visit: Hjalmar Johansens gt. 14, 9007 Tromsø

**e-mail:** nilu@nilu.no  
nilu-tromso@nilu.no  
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## EMEP – 34<sup>th</sup> intercomparison of analytical methods

Laboratory 42, State Hydrometeorological Service, Chisnau (Moldova)

### Nitrogen dioxide in absorbing solution (C-samples)

Sample name	Determinand	Reported value	Expected value	Mean value	Standard deviation	Z score	EMEP quality norm <sup>⌘</sup>
C1	NO <sub>2</sub>	0.043	0.146	0.138	0.02	-4.755	U
C2	NO <sub>2</sub>	0.058	0.132	0.126	0.015	-4.631	U
C3	NO <sub>2</sub>	0.11	0.059	0.062	0.015	3.222	U
C4	NO <sub>2</sub>	0.139	0.073	0.077	0.02	3.173	U

⌘ EMEP quality norm; the letters in the column indicates:

S – Satisfactory: Your result deviates less than  $\pm 10\%$  of the expected value

Q – Questionable: Your result deviates between  $\pm 10\text{-}20\%$  of the expected value

U – Unsatisfactory: Your result deviates more than  $\pm 20\%$  of the expected value

B – Blank: You reported either no value or the detection limit

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Framsenteret / The Fram Centre  
NO-9296 TROMSØ, Norway  
Phone: +47 77 75 03 75/Fax: +47 77 75 03 76  
Besøk/visit: Hjalmar Johansens gt. 14, 9007 Tromsø

**e-mail:** nilu@nilu.no  
nilu-tromso@nilu.no  
**Internet:** [www.nilu.no](http://www.nilu.no)  
Bank: 5102.05.19030  
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## EMEP – 34<sup>th</sup> intercomparison of analytical methods

Laboratory 182, Research Institute for Analytical Instrumentation, ICIA (Romania)

### Nitrogen dioxide in absorbing solution (C-samples)

Sample name	Determinand	Reported value	Expected value	Mean value	Standard deviation	Z score	EMEP quality norm <sup>⌘</sup>
C1	NO <sub>2</sub>	0.301	0.146	0.138	0.02	8.143	U
C2	NO <sub>2</sub>	0.265	0.132	0.126	0.015	9.444	U
C3	NO <sub>2</sub>	0.116	0.059	0.062	0.015	3.623	U
C4	NO <sub>2</sub>	0.149	0.073	0.077	0.02	3.683	U

⌘ EMEP quality norm; the letters in the column indicates:

S – Satisfactory: Your result deviates less than  $\pm 10\%$  of the expected value

Q – Questionable: Your result deviates between  $\pm 10\text{-}20\%$  of the expected value

U – Unsatisfactory: Your result deviates more than  $\pm 20\%$  of the expected value

B – Blank: You reported either no value or the detection limit

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Framsenteret / The Fram Centre  
NO-9296 TROMSØ, Norway  
Phone: +47 77 75 03 75/Fax: +47 77 75 03 76  
Besøk/visit: Hjalmar Johansens gt. 14, 9007 Tromsø

**e-mail:** nilu@nilu.no  
nilu-tromso@nilu.no  
**Internet:** [www.nilu.no](http://www.nilu.no)  
Bank: 5102.05.19030  
Foretaksnr./Enterprise no. 941705561

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## EMEP – 34<sup>th</sup> intercomparison of analytical methods

Laboratory 183, Public health institute Uzice (Republic of Serbia)

### Nitrogen dioxide in absorbing solution (C-samples)

Sample name	Determinand	Reported value	Expected value	Mean value	Standard deviation	Z score	EMEP quality norm <sup>⌘</sup>
C1	NO <sub>2</sub>	0.147	0.146	0.138	0.02	0.444	S
C2	NO <sub>2</sub>	0.132	0.132	0.126	0.015	0.401	S
C3	NO <sub>2</sub>	0.059	0.059	0.062	0.015	-0.188	S
C4	NO <sub>2</sub>	0.073	0.073	0.077	0.02	-0.194	S

⌘ EMEP quality norm; the letters in the column indicates:

S – Satisfactory: Your result deviates less than  $\pm 10\%$  of the expected value

Q – Questionable: Your result deviates between  $\pm 10\text{-}20\%$  of the expected value

U – Unsatisfactory: Your result deviates more than  $\pm 20\%$  of the expected value

B – Blank: You reported either no value or the detection limit

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Framsenteret / The Fram Centre  
NO-9296 TROMSØ, Norway  
Phone: +47 77 75 03 75/Fax: +47 77 75 03 76  
Besøk/visit: Hjalmar Johansens gt. 14, 9007 Tromsø

**e-mail:** nilu@nilu.no  
nilu-tromso@nilu.no  
**Internet:** [www.nilu.no](http://www.nilu.no)  
Bank: 5102.05.19030  
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## EMEP – 34<sup>th</sup> intercomparison of analytical methods

Laboratory 184, Institute for Public Health Pozarevac (Republic of Serbia)

### Nitrogen dioxide in absorbing solution (C-samples)

Sample name	Determinand	Reported value	Expected value	Mean value	Standard deviation	Z score	EMEP quality norm <sup>⌘</sup>
C1	NO <sub>2</sub>	0.14	0.146	0.138	0.02	0.094	S
C2	NO <sub>2</sub>	0.129	0.132	0.126	0.015	0.197	S
C3	NO <sub>2</sub>	0.056	0.059	0.062	0.015	-0.389	S
C4	NO <sub>2</sub>	0.07	0.073	0.077	0.02	-0.347	S

⌘ EMEP quality norm; the letters in the column indicates:

S – Satisfactory: Your result deviates less than  $\pm 10\%$  of the expected value

Q – Questionable: Your result deviates between  $\pm 10\text{-}20\%$  of the expected value

U – Unsatisfactory: Your result deviates more than  $\pm 20\%$  of the expected value

B – Blank: You reported either no value or the detection limit

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Framsenteret / The Fram Centre  
NO-9296 TROMSØ, Norway  
Phone: +47 77 75 03 75/Fax: +47 77 75 03 76  
Besøk/visit: Hjalmar Johansens gt. 14, 9007 Tromsø

**e-mail:** nilu@nilu.no  
nilu-tromso@nilu.no  
**Internet:** [www.nilu.no](http://www.nilu.no)  
Bank: 5102.05.19030  
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## EMEP – 34<sup>th</sup> intercomparison of analytical methods

Laboratory 185, Public Health Centre - Cacak, Department for Sanitary Chemistry and Ecotoxicology  
(Republic of Serbia)

### Nitrogen dioxide in absorbing solution (C-samples)

Sample name	Determinand	Reported value	Expected value	Mean value	Standard deviation	Z score	EMEP quality norm <sup>⌘</sup>
C1	NO <sub>2</sub>	0.142	0.146	0.138	0.02	0.194	S
C2	NO <sub>2</sub>	0.128	0.132	0.126	0.015	0.129	S
C3	NO <sub>2</sub>	0.057	0.059	0.062	0.015	-0.322	S
C4	NO <sub>2</sub>	0.07	0.073	0.077	0.02	-0.347	S

⌘ EMEP quality norm; the letters in the column indicates:

S – Satisfactory: Your result deviates less than  $\pm 10\%$  of the expected value

Q – Questionable: Your result deviates between  $\pm 10\text{-}20\%$  of the expected value

U – Unsatisfactory: Your result deviates more than  $\pm 20\%$  of the expected value

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NO-9296 TROMSØ, Norway  
Phone: +47 77 75 03 75/Fax: +47 77 75 03 76  
Besøk/visit: Hjalmar Johansens gt. 14, 9007 Tromsø

**e-mail:** nilu@nilu.no  
nilu-tromso@nilu.no  
**Internet:** [www.nilu.no](http://www.nilu.no)  
Bank: 5102.05.19030  
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## EMEP – 34<sup>th</sup> intercomparison of analytical methods

Laboratory 186, Public Health Institute - Kralevo (Republic of Serbia)

### Nitrogen dioxide in absorbing solution (C-samples)

Sample name	Determinand	Reported value	Expected value	Mean value	Standard deviation	Z score	EMEP quality norm <sup>⌘</sup>
C1	NO <sub>2</sub>	0.142	0.146	0.138	0.02	0.194	S
C2	NO <sub>2</sub>	0.129	0.132	0.126	0.015	0.197	S
C3	NO <sub>2</sub>	0.057	0.059	0.062	0.015	-0.322	S
C4	NO <sub>2</sub>	0.071	0.073	0.077	0.02	-0.296	S

⌘ EMEP quality norm; the letters in the column indicates:

S – Satisfactory: Your result deviates less than  $\pm 10\%$  of the expected value

Q – Questionable: Your result deviates between  $\pm 10\text{-}20\%$  of the expected value

U – Unsatisfactory: Your result deviates more than  $\pm 20\%$  of the expected value

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Framsenteret / The Fram Centre  
NO-9296 TROMSØ, Norway  
Phone: +47 77 75 03 75/Fax: +47 77 75 03 76  
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nilu-tromso@nilu.no  
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## EMEP – 34<sup>th</sup> intercomparison of analytical methods

Laboratory 187, Public Health Institute - Nis, Department for Sanitary Chemistry (Republic of Serbia)

### Nitrogen dioxide in absorbing solution (C-samples)

Sample name	Determinand	Reported value	Expected value	Mean value	Standard deviation	Z score	EMEP quality norm <sup>⌘</sup>
C1	NO <sub>2</sub>	0.139	0.146	0.138	0.02	0.044	S
C2	NO <sub>2</sub>	0.128	0.132	0.126	0.015	0.129	S
C3	NO <sub>2</sub>	0.054	0.059	0.062	0.015	-0.523	S
C4	NO <sub>2</sub>	0.071	0.073	0.077	0.02	-0.296	S

⌘ EMEP quality norm; the letters in the column indicates:

S – Satisfactory: Your result deviates less than  $\pm 10\%$  of the expected value

Q – Questionable: Your result deviates between  $\pm 10\text{-}20\%$  of the expected value

U – Unsatisfactory: Your result deviates more than  $\pm 20\%$  of the expected value

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Framsenteret / The Fram Centre  
NO-9296 TROMSØ, Norway  
Phone: +47 77 75 03 75/Fax: +47 77 75 03 76  
Besøk/visit: Hjalmar Johansens gt. 14, 9007 Tromsø

**e-mail:** nilu@nilu.no  
nilu-tromso@nilu.no  
**Internet:** [www.nilu.no](http://www.nilu.no)  
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## EMEP – 34<sup>th</sup> intercomparison of analytical methods

Laboratory 188, Institute of Public Health - Krusevac (Republic of Serbia)

### Nitrogen dioxide in absorbing solution (C-samples)

Sample name	Determinand	Reported value	Expected value	Mean value	Standard deviation	Z score	EMEP quality norm <sup>⌘</sup>
C1	NO <sub>2</sub>	0.141	0.146	0.138	0.02	0.144	S
C2	NO <sub>2</sub>	0.128	0.132	0.126	0.015	0.129	S
C3	NO <sub>2</sub>	0.057	0.059	0.062	0.015	-0.322	S
C4	NO <sub>2</sub>	0.07	0.073	0.077	0.02	-0.347	S

⌘ EMEP quality norm; the letters in the column indicates:

S – Satisfactory: Your result deviates less than  $\pm 10\%$  of the expected value

Q – Questionable: Your result deviates between  $\pm 10\text{-}20\%$  of the expected value

U – Unsatisfactory: Your result deviates more than  $\pm 20\%$  of the expected value

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Besøk/visit: Instituttveien 18, 2007 Kjeller

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Framsenteret / The Fram Centre  
NO-9296 TROMSØ, Norway  
Phone: +47 77 75 03 75/Fax: +47 77 75 03 76  
Besøk/visit: Hjalmar Johansens gt. 14, 9007 Tromsø

**e-mail:** nilu@nilu.no  
nilu-tromso@nilu.no  
**Internet:** [www.nilu.no](http://www.nilu.no)  
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## EMEP – 34<sup>th</sup> intercomparison of analytical methods

Laboratory 189, Institute of Public Health - Kikinda (Republic of Serbia)

### Nitrogen dioxide in absorbing solution (C-samples)

Sample name	Determinand	Reported value	Expected value	Mean value	Standard deviation	Z score	EMEP quality norm <sup>⌘</sup>
C1	NO <sub>2</sub>	0.14	0.146	0.138	0.02	0.094	S
C2	NO <sub>2</sub>	0.126	0.132	0.126	0.015	-0.007	S
C3	NO <sub>2</sub>	0.057	0.059	0.062	0.015	-0.322	S
C4	NO <sub>2</sub>	0.072	0.073	0.077	0.02	-0.245	S

⌘ EMEP quality norm; the letters in the column indicates:

S – Satisfactory: Your result deviates less than  $\pm 10\%$  of the expected value

Q – Questionable: Your result deviates between  $\pm 10\text{-}20\%$  of the expected value

U – Unsatisfactory: Your result deviates more than  $\pm 20\%$  of the expected value

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NILU – Norsk institutt for luftforskning  
PO Box 100  
NO-2027 KJELLER, Norway  
Phone: +47 63 89 80 00/Fax: +47 63 89 80 50  
Besøk/visit: Instituttveien 18, 2007 Kjeller

NILU – Norsk institutt for luftforskning  
Framsenteret / The Fram Centre  
NO-9296 TROMSØ, Norway  
Phone: +47 77 75 03 75/Fax: +47 77 75 03 76  
Besøk/visit: Hjalmar Johansens gt. 14, 9007 Tromsø

**e-mail:** nilu@nilu.no  
nilu-tromso@nilu.no  
**Internet:** [www.nilu.no](http://www.nilu.no)  
Bank: 5102.05.19030  
Foretaksnr./Enterprise no. 941705561

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## EMEP – 34<sup>th</sup> intercomparison of analytical methods

Laboratory 192, The Public Health Institute Sabac (Republic of Serbia)

### Nitrogen dioxide in absorbing solution (C-samples)

Sample name	Determinand	Reported value	Expected value	Mean value	Standard deviation	Z score	EMEP quality norm <sup>⌘</sup>
C1	NO <sub>2</sub>	0.14	0.146	0.138	0.02	0.094	S
C2	NO <sub>2</sub>	0.128	0.132	0.126	0.015	0.129	S
C3	NO <sub>2</sub>	0.058	0.059	0.062	0.015	-0.255	S
C4	NO <sub>2</sub>	0.07	0.073	0.077	0.02	-0.347	S

⌘ EMEP quality norm; the letters in the column indicates:

S – Satisfactory: Your result deviates less than  $\pm 10\%$  of the expected value

Q – Questionable: Your result deviates between  $\pm 10\text{-}20\%$  of the expected value

U – Unsatisfactory: Your result deviates more than  $\pm 20\%$  of the expected value

B – Blank: You reported either no value or the detection limit

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NILU – Norsk institutt for luftforskning  
PO Box 100  
NO-2027 KJELLER, Norway  
Phone: +47 63 89 80 00/Fax: +47 63 89 80 50  
Besøk/visit: Instituttveien 18, 2007 Kjeller

NILU – Norsk institutt for luftforskning  
Framsenteret / The Fram Centre  
NO-9296 TROMSØ, Norway  
Phone: +47 77 75 03 75/Fax: +47 77 75 03 76  
Besøk/visit: Hjalmar Johansens gt. 14, 9007 Tromsø

**e-mail:** nilu@nilu.no  
nilu-tromso@nilu.no  
**Internet:** [www.nilu.no](http://www.nilu.no)  
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Foretaksnr./Enterprise no. 941705561

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## EMEP – 34<sup>th</sup> intercomparison of analytical methods

Laboratory 193, Institute of Public Health of Vojvodina (Republic of Serbia)

### Nitrogen dioxide in absorbing solution (C-samples)

Sample name	Determinand	Reported value	Expected value	Mean value	Standard deviation	Z score	EMEP quality norm <sup>⌘</sup>
C1	NO <sub>2</sub>	0.146	0.146	0.138	0.02	0.394	S
C2	NO <sub>2</sub>	0.135	0.132	0.126	0.015	0.605	S
C3	NO <sub>2</sub>	0.061	0.059	0.062	0.015	-0.054	S
C4	NO <sub>2</sub>	0.076	0.073	0.077	0.02	-0.041	S

⌘ EMEP quality norm; the letters in the column indicates:

S – Satisfactory: Your result deviates less than  $\pm 10\%$  of the expected value

Q – Questionable: Your result deviates between  $\pm 10\text{-}20\%$  of the expected value

U – Unsatisfactory: Your result deviates more than  $\pm 20\%$  of the expected value

B – Blank: You reported either no value or the detection limit

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NILU – Norsk institutt for luftforskning  
PO Box 100  
NO-2027 KJELLER, Norway  
Phone: +47 63 89 80 00/Fax: +47 63 89 80 50  
Besøk/visit: Instituttveien 18, 2007 Kjeller

NILU – Norsk institutt for luftforskning  
Framsenteret / The Fram Centre  
NO-9296 TROMSØ, Norway  
Phone: +47 77 75 03 75/Fax: +47 77 75 03 76  
Besøk/visit: Hjalmar Johansens gt. 14, 9007 Tromsø

**e-mail:** nilu@nilu.no  
nilu-tromso@nilu.no  
**Internet:** [www.nilu.no](http://www.nilu.no)  
Bank: 5102.05.19030  
Foretaksnr./Enterprise no. 941705561

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## EMEP – 34<sup>th</sup> intercomparison of analytical methods

Laboratory 194, Institute of Public Health - Zrenjanin (Republic of Serbia)

### Nitrogen dioxide in absorbing solution (C-samples)

Sample name	Determinand	Reported value	Expected value	Mean value	Standard deviation	Z score	EMEP quality norm <sup>⌘</sup>
C1	NO <sub>2</sub>	0.143	0.146	0.138	0.02	0.244	S
C2	NO <sub>2</sub>	0.126	0.132	0.126	0.015	-0.007	S
C3	NO <sub>2</sub>	0.056	0.059	0.062	0.015	-0.389	S
C4	NO <sub>2</sub>	0.071	0.073	0.077	0.02	-0.296	S

⌘ EMEP quality norm; the letters in the column indicates:

S – Satisfactory: Your result deviates less than  $\pm 10\%$  of the expected value

Q – Questionable: Your result deviates between  $\pm 10\text{-}20\%$  of the expected value

U – Unsatisfactory: Your result deviates more than  $\pm 20\%$  of the expected value

B – Blank: You reported either no value or the detection limit

Please check the EMEP intercalibration website for more statistics, Youden plots, updated expected values ect: <http://www.nilu.no/projects/ccc/intercomparison.html>

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NILU – Norsk institutt for luftforskning  
PO Box 100  
NO-2027 KJELLER, Norway  
Phone: +47 63 89 80 00/Fax: +47 63 89 80 50  
Besøk/visit: Instituttveien 18, 2007 Kjeller

NILU – Norsk institutt for luftforskning  
Framsenteret / The Fram Centre  
NO-9296 TROMSØ, Norway  
Phone: +47 77 75 03 75/Fax: +47 77 75 03 76  
Besøk/visit: Hjalmar Johansens gt. 14, 9007 Tromsø

**e-mail:** nilu@nilu.no  
nilu-tromso@nilu.no  
**Internet:** [www.nilu.no](http://www.nilu.no)  
Bank: 5102.05.19030  
Foretaksnr./Enterprise no. 941705561

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## EMEP – 34<sup>th</sup> intercomparison of analytical methods

Laboratory 197, Institute of Occupational Health - Novi Sad (Republic of Serbia)

### Nitrogen dioxide in absorbing solution (C-samples)

Sample name	Determinand	Reported value	Expected value	Mean value	Standard deviation	Z score	EMEP quality norm <sup>⌘</sup>
C1	NO <sub>2</sub>	0.142	0.146	0.138	0.02	0.194	S
C2	NO <sub>2</sub>	0.13	0.132	0.126	0.015	0.265	S
C3	NO <sub>2</sub>	0.059	0.059	0.062	0.015	-0.188	S
C4	NO <sub>2</sub>	0.07	0.073	0.077	0.02	-0.347	S

⌘ EMEP quality norm; the letters in the column indicates:

S – Satisfactory: Your result deviates less than  $\pm 10\%$  of the expected value

Q – Questionable: Your result deviates between  $\pm 10\text{-}20\%$  of the expected value

U – Unsatisfactory: Your result deviates more than  $\pm 20\%$  of the expected value

B – Blank: You reported either no value or the detection limit

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NILU – Norsk institutt for luftforskning  
PO Box 100  
NO-2027 KJELLER, Norway  
Phone: +47 63 89 80 00/Fax: +47 63 89 80 50  
Besøk/visit: Instituttveien 18, 2007 Kjeller

NILU – Norsk institutt for luftforskning  
Framsenteret / The Fram Centre  
NO-9296 TROMSØ, Norway  
Phone: +47 77 75 03 75/Fax: +47 77 75 03 76  
Besøk/visit: Hjalmar Johansens gt. 14, 9007 Tromsø

**e-mail:** nilu@nilu.no  
nilu-tromso@nilu.no  
**Internet:** [www.nilu.no](http://www.nilu.no)  
Bank: 5102.05.19030  
Foretaksnr./Enterprise no. 941705561

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## EMEP – 34<sup>th</sup> intercomparison of analytical methods

Laboratory 198, Institute for public health - Sremska Mitrovica (Republic of Serbia)

### Nitrogen dioxide in absorbing solution (C-samples)

Sample name	Determinand	Reported value	Expected value	Mean value	Standard deviation	Z score	EMEP quality norm <sup>⌘</sup>
C1	NO <sub>2</sub>	0.136	0.146	0.138	0.02	-0.106	S
C2	NO <sub>2</sub>	0.124	0.132	0.126	0.015	-0.143	S
C3	NO <sub>2</sub>	0.056	0.059	0.062	0.015	-0.389	S
C4	NO <sub>2</sub>	0.071	0.073	0.077	0.02	-0.296	S

⌘ EMEP quality norm; the letters in the column indicates:

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Q – Questionable: Your result deviates between  $\pm 10\text{-}20\%$  of the expected value

U – Unsatisfactory: Your result deviates more than  $\pm 20\%$  of the expected value

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NILU – Norsk institutt for luftforskning  
PO Box 100  
NO-2027 KJELLER, Norway  
Phone: +47 63 89 80 00/Fax: +47 63 89 80 50  
Besøk/visit: Instituttveien 18, 2007 Kjeller

NILU – Norsk institutt for luftforskning  
Framsenteret / The Fram Centre  
NO-9296 TROMSØ, Norway  
Phone: +47 77 75 03 75/Fax: +47 77 75 03 76  
Besøk/visit: Hjalmar Johansens gt. 14, 9007 Tromsø

**e-mail:** nilu@nilu.no  
nilu-tromso@nilu.no  
**Internet:** [www.nilu.no](http://www.nilu.no)  
Bank: 5102.05.19030  
Foretaksnr./Enterprise no. 941705561

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## EMEP – 34<sup>th</sup> intercomparison of analytical methods

Laboratory 200, FUB AG (Switzerland)

### Nitrogen dioxide in absorbing solution (C-samples)

Sample name	Determinand	Reported value	Expected value	Mean value	Standard deviation	Z score	EMEP quality norm <sup>⌘</sup>
C1	NO <sub>2</sub>	0.148	0.146	0.138	0.02	0.494	S
C2	NO <sub>2</sub>	0.134	0.132	0.126	0.015	0.537	S
C3	NO <sub>2</sub>	0.06	0.059	0.062	0.015	-0.121	S
C4	NO <sub>2</sub>	0.074	0.073	0.077	0.02	-0.143	S

⌘ EMEP quality norm; the letters in the column indicates:

S – Satisfactory: Your result deviates less than ±10% of the expected value

Q – Questionable: Your result deviates between ±10-20% of the expected value

U – Unsatisfactory: Your result deviates more than ±20% of the expected value

B – Blank: You reported either no value or the detection limit

Please check the EMEP intercalibration website for more statistics, Youden plots, updated expected values ect: <http://www.nilu.no/projects/ccc/intercomparison.html>

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ISO-sertifisert etter / ISO certified according to NS-EN ISO 9001/ISO 14001**

NILU – Norsk institutt for luftforskning  
PO Box 100  
NO-2027 KJELLER, Norway  
Phone: +47 63 89 80 00/Fax: +47 63 89 80 50  
Besøk/visit: Instituttveien 18, 2007 Kjeller

NILU – Norsk institutt for luftforskning  
Framsenteret / The Fram Centre  
NO-9296 TROMSØ, Norway  
Phone: +47 77 75 03 75/Fax: +47 77 75 03 76  
Besøk/visit: Hjalmar Johansens gt. 14, 9007 Tromsø

**e-mail:** nilu@nilu.no  
nilu-tromso@nilu.no  
**Internet:** [www.nilu.no](http://www.nilu.no)  
Bank: 5102.05.19030  
Foretaksnr./Enterprise no. 941705561

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## EMEP – 34<sup>th</sup> intercomparison of analytical methods

Laboratory 203, The Public Health Institute Vranje (Republic of Serbia)

### Nitrogen dioxide in absorbing solution (C-samples)

Sample name	Determinand	Reported value	Expected value	Mean value	Standard deviation	Z score	EMEP quality norm <sup>⌘</sup>
C1	NO <sub>2</sub>	0.145	0.146	0.138	0.02	0.344	S
C2	NO <sub>2</sub>	0.135	0.132	0.126	0.015	0.605	S
C3	NO <sub>2</sub>	0.056	0.059	0.062	0.015	-0.389	S
C4	NO <sub>2</sub>	0.072	0.073	0.077	0.02	-0.245	S

⌘ EMEP quality norm; the letters in the column indicates:

S – Satisfactory: Your result deviates less than  $\pm 10\%$  of the expected value

Q – Questionable: Your result deviates between  $\pm 10\text{-}20\%$  of the expected value

U – Unsatisfactory: Your result deviates more than  $\pm 20\%$  of the expected value

B – Blank: You reported either no value or the detection limit

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NILU – Norsk institutt for luftforskning  
PO Box 100  
NO-2027 KJELLER, Norway  
Phone: +47 63 89 80 00/Fax: +47 63 89 80 50  
Besøk/visit: Instituttveien 18, 2007 Kjeller

NILU – Norsk institutt for luftforskning  
Framsenteret / The Fram Centre  
NO-9296 TROMSØ, Norway  
Phone: +47 77 75 03 75/Fax: +47 77 75 03 76  
Besøk/visit: Hjalmar Johansens gt. 14, 9007 Tromsø

**e-mail:** nilu@nilu.no  
nilu-tromso@nilu.no  
**Internet:** [www.nilu.no](http://www.nilu.no)  
Bank: 5102.05.19030  
Foretaksnr./Enterprise no. 941705561

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## EMEP – 34<sup>th</sup> intercomparison of analytical methods

Laboratory 204, Institute for Public Health "Pomoravlje" Cuprija (Republic of Serbia)

### Nitrogen dioxide in absorbing solution (C-samples)

Sample name	Determinand	Reported value	Expected value	Mean value	Standard deviation	Z score	EMEP quality norm <sup>⌘</sup>
C1	NO <sub>2</sub>	0.414	0.146	0.138	0.02	13.793	U
C2	NO <sub>2</sub>	0.409	0.132	0.126	0.015	19.236	U
C3	NO <sub>2</sub>	0.356	0.059	0.062	0.015	19.67	U
C4	NO <sub>2</sub>	0.367	0.073	0.077	0.02	14.805	U

⌘ EMEP quality norm; the letters in the column indicates:

S – Satisfactory: Your result deviates less than  $\pm 10\%$  of the expected value

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NILU – Norsk institutt for luftforskning  
PO Box 100  
NO-2027 KJELLER, Norway  
Phone: +47 63 89 80 00/Fax: +47 63 89 80 50  
Besøk/visit: Instituttveien 18, 2007 Kjeller

NILU – Norsk institutt for luftforskning  
Framsenteret / The Fram Centre  
NO-9296 TROMSØ, Norway  
Phone: +47 77 75 03 75/Fax: +47 77 75 03 76  
Besøk/visit: Hjalmar Johansens gt. 14, 9007 Tromsø

**e-mail:** nilu@nilu.no  
nilu-tromso@nilu.no  
**Internet:** [www.nilu.no](http://www.nilu.no)  
Bank: 5102.05.19030  
Foretaksnr./Enterprise no. 941705561

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