

EMEP – 32nd 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 [⌘]
C1	NO ₂	0.064	0.067	0.07	0.027	-0.213	S
C2	NO ₂	0.077	0.081	0.084	0.034	-0.192	S
C3	NO ₂	0.127	0.135	0.131	0.019	-0.233	S
C4	NO ₂	0.1	0.108	0.104	0.014	-0.323	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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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 [⌘]
C1	NO ₂	0.067	0.067	0.07	0.027	-0.102	S
C2	NO ₂	0.082	0.081	0.084	0.034	-0.047	S
C3	NO ₂	0.136	0.135	0.131	0.019	0.249	S
C4	NO ₂	0.108	0.108	0.104	0.014	0.267	S

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

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Laboratory 12, Met. Eirann, 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 [⌘]
C1	NO ₂	0.072	0.067	0.07	0.027	0.082	S
C2	NO ₂	0.087	0.081	0.084	0.034	0.099	S
C3	NO ₂	0.142	0.135	0.131	0.019	0.571	S
C4	NO ₂	0.102	0.108	0.104	0.014	-0.175	S

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

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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 [⌘]
C1	NO ₂	0.065	0.067	0.07	0.027	-0.176	S
C2	NO ₂	0.076	0.081	0.084	0.034	-0.221	S
C3	NO ₂	0.118	0.135	0.131	0.019	-0.716	Q
C4	NO ₂	0.097	0.108	0.104	0.014	-0.544	Q

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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 [⌘]
C1	NO ₂	0.065	0.067	0.07	0.027	-0.176	S
C2	NO ₂	0.08	0.081	0.084	0.034	-0.105	S
C3	NO ₂	0.127	0.135	0.131	0.019	-0.233	S
C4	NO ₂	0.104	0.108	0.104	0.014	-0.028	S

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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 [⌘]
C1	NO ₂	0.11	0.067	0.07	0.027	1.513	U
C2	NO ₂	0.14	0.081	0.083	0.034	1.667	U
C3	NO ₂	0.2	0.135	0.132	0.018	3.714	U
C4	NO ₂	0.1	0.108	0.105	0.013	-0.341	S

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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 [⌘]
C1	NO ₂	0.063	0.067	0.07	0.027	-0.245	S
C2	NO ₂	0.08	0.081	0.083	0.034	-0.103	S
C3	NO ₂	0.14	0.135	0.132	0.018	0.455	S
C4	NO ₂	0.11	0.108	0.105	0.013	0.407	S

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

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

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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 [⌘]
C1	NO ₂	0.68	0.067	0.07	0.027	22.484	U
C2	NO ₂	0.824	0.081	0.084	0.034	21.497	U
C3	NO ₂	0.137	0.135	0.131	0.019	0.303	S
C4	NO ₂	0.11	0.108	0.104	0.014	0.378	S

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

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Laboratory 24, Serbian Environmental Protection Agency (Serbia)

Nitrogen dioxide in absorbing solution (C-samples)

Sample name	Determinand	Reported value	Expected value	Mean value	Standard deviation	Z score	EMEP quality norm [⌘]
C1	NO ₂	0.071	0.067	0.07	0.027	0.045	S
C2	NO ₂	0.086	0.081	0.084	0.034	0.069	S
C3	NO ₂	0.144	0.135	0.131	0.019	0.678	S
C4	NO ₂	0.115	0.108	0.104	0.014	0.784	S

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

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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 [⌘]
C1	NO ₂	0.061	0.067	0.07	0.027	-0.323	S
C2	NO ₂	0.072	0.081	0.084	0.034	-0.337	Q
C3	NO ₂	0.126	0.135	0.131	0.019	-0.287	S
C4	NO ₂	0.098	0.108	0.104	0.014	-0.47	S

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

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EMEP – 32nd 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 [⌘]
C1	NO ₂	0.069	0.067	0.07	0.027	-0.028	S
C2	NO ₂	0.085	0.081	0.084	0.034	0.04	S
C3	NO ₂	0.14	0.135	0.131	0.019	0.463	S
C4	NO ₂	0.113	0.108	0.104	0.014	0.636	S

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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 [⌘]
C1	NO ₂	0.069	0.067	0.07	0.027	-0.036	S
C2	NO ₂	0.082	0.081	0.084	0.034	-0.052	S
C3	NO ₂	0.133	0.135	0.131	0.019	0.067	S
C4	NO ₂	0.108	0.108	0.104	0.014	0.253	S

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Laboratory 34, Ministry of Environment and Urbanisation (Turkey)

Nitrogen dioxide in absorbing solution (C-samples)

Sample name	Determinand	Reported value	Expected value	Mean value	Standard deviation	Z score	EMEP quality norm [⌘]
C1	NO ₂	0.049	0.067	0.07	0.027	-0.765	U
C2	NO ₂	0.048	0.081	0.084	0.034	-1.034	U
C3	NO ₂	0.073	0.135	0.131	0.019	-3.128	U
C4	NO ₂	0.043	0.108	0.104	0.014	-4.527	U

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EMEP – 32nd intercomparison of analytical methods

Laboratory 36, Hydrometeorological Institute of Slovenia (Slovenia)

Nitrogen dioxide in absorbing solution (C-samples)

Sample name	Determinand	Reported value	Expected value	Mean value	Standard deviation	Z score	EMEP quality norm [⌘]
C1	NO ₂	0.062	0.067	0.07	0.027	-0.286	S
C2	NO ₂	0.076	0.081	0.084	0.034	-0.221	S
C3	NO ₂	0.121	0.135	0.131	0.019	-0.555	Q
C4	NO ₂	0.102	0.108	0.104	0.014	-0.175	S

⌘ 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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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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EMEP – 32nd 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 [⌘]
C1	NO ₂	0.078	0.067	0.07	0.027	0.303	Q
C2	NO ₂	0.088	0.081	0.084	0.034	0.128	S
C3	NO ₂	0.14	0.135	0.131	0.019	0.463	S
C4	NO ₂	0.112	0.108	0.104	0.014	0.562	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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EMEP – 32nd 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 [⌘]
C1	NO ₂	0.076	0.067	0.07	0.027	0.23	Q
C2	NO ₂	0.088	0.081	0.084	0.034	0.128	S
C3	NO ₂	0.101	0.135	0.131	0.019	-1.627	U
C4	NO ₂	0.136	0.108	0.104	0.014	2.333	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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EMEP – 32nd intercomparison of analytical methods

Laboratory 173, Company Petrokemija d.d. (Croatia)

Nitrogen dioxide in absorbing solution (C-samples)

Sample name	Determinand	Reported value	Expected value	Mean value	Standard deviation	Z score	EMEP quality norm [⌘]
C1	NO ₂	0.067	0.067	0.07	0.027	-0.102	S
C2	NO ₂	0.081	0.081	0.084	0.034	-0.076	S
C3	NO ₂	0.137	0.135	0.131	0.019	0.303	S
C4	NO ₂	0.108	0.108	0.104	0.014	0.267	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

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EMEP – 32nd intercomparison of analytical methods

Laboratory 178, Environmental Chemistry and EANET Monitoring Laboratory, Limnological Institute RAS/SB, Irkutsk (Russian Federation)

Nitrogen dioxide in absorbing solution (C-samples)

Sample name	Determinand	Reported value	Expected value	Mean value	Standard deviation	Z score	EMEP quality norm [⌘]
C1	NO ₂	0.001	0.067	0.07	0.027	-2.545	U
C2	NO ₂	0.001	0.081	0.084	0.034	-2.398	U
C3	NO ₂	0.001	0.135	0.131	0.019	-7.008	U
C4	NO ₂	0.001	0.108	0.104	0.014	-7.625	U

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

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EMEP – 32nd 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 [⌘]
C1	NO ₂	0.191	0.067	0.07	0.027	4.467	U
C2	NO ₂	0.237	0.081	0.084	0.034	4.454	U
C3	NO ₂	0.419	0.135	0.131	0.019	15.418	U
C4	NO ₂	0.325	0.108	0.104	0.014	16.273	U

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

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EMEP – 32nd 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 [⌘]
C1	NO ₂	0.067	0.067	0.07	0.027	-0.087	S
C2	NO ₂	0.081	0.081	0.084	0.034	-0.076	S
C3	NO ₂	0.131	0.135	0.131	0.019	-0.019	S
C4	NO ₂	0.105	0.108	0.104	0.014	0.046	S

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EMEP – 32nd 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 [⌘]
C1	NO ₂	0.066	0.067	0.07	0.027	-0.139	S
C2	NO ₂	0.077	0.081	0.084	0.034	-0.192	S
C3	NO ₂	0.13	0.135	0.131	0.019	-0.073	S
C4	NO ₂	0.104	0.108	0.104	0.014	-0.028	S

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EMEP – 32nd 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 [⌘]
C1	NO ₂	0.067	0.067	0.07	0.027	-0.102	S
C2	NO ₂	0.079	0.081	0.084	0.034	-0.134	S
C3	NO ₂	0.134	0.135	0.131	0.019	0.142	S
C4	NO ₂	0.106	0.108	0.104	0.014	0.12	S

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EMEP – 32nd 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 [⌘]
C1	NO ₂	0.066	0.067	0.07	0.027	-0.139	S
C2	NO ₂	0.081	0.081	0.084	0.034	-0.076	S
C3	NO ₂	0.132	0.135	0.131	0.019	0.035	S
C4	NO ₂	0.105	0.108	0.104	0.014	0.046	S

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

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EMEP – 32nd 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 [⌘]
C1	NO ₂	0.065	0.067	0.07	0.027	-0.176	S
C2	NO ₂	0.077	0.081	0.084	0.034	-0.192	S
C3	NO ₂	0.123	0.135	0.131	0.019	-0.448	S
C4	NO ₂	0.103	0.108	0.104	0.014	-0.102	S

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

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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 [⌘]
C1	NO ₂	0.069	0.067	0.07	0.027	-0.028	S
C2	NO ₂	0.08	0.081	0.084	0.034	-0.105	S
C3	NO ₂	0.132	0.135	0.131	0.019	0.035	S
C4	NO ₂	0.106	0.108	0.104	0.014	0.12	S

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EMEP – 32nd 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 [⌘]
C1	NO ₂	0.065	0.067	0.07	0.027	-0.176	S
C2	NO ₂	0.076	0.081	0.084	0.034	-0.221	S
C3	NO ₂	0.131	0.135	0.131	0.019	-0.019	S
C4	NO ₂	0.104	0.108	0.104	0.014	-0.028	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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EMEP – 32nd intercomparison of analytical methods

Laboratory 191, Institute for Public Health - Pancevo (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 [⌘]
C1	NO ₂	0.061	0.067	0.07	0.027	-0.323	S
C2	NO ₂	0.074	0.081	0.084	0.034	-0.279	S
C3	NO ₂	0.129	0.135	0.131	0.019	-0.126	S
C4	NO ₂	0.101	0.108	0.104	0.014	-0.249	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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EMEP – 32nd 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 [⌘]
C1	NO ₂	0.067	0.067	0.07	0.027	-0.102	S
C2	NO ₂	0.082	0.081	0.084	0.034	-0.047	S
C3	NO ₂	0.134	0.135	0.131	0.019	0.142	S
C4	NO ₂	0.106	0.108	0.104	0.014	0.12	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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EMEP – 32nd 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 [⌘]
C1	NO ₂	0.069	0.067	0.07	0.027	-0.028	S
C2	NO ₂	0.083	0.081	0.084	0.034	-0.018	S
C3	NO ₂	0.136	0.135	0.131	0.019	0.249	S
C4	NO ₂	0.112	0.108	0.104	0.014	0.562	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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EMEP – 32nd 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 [⌘]
C1	NO ₂	0.067	0.067	0.07	0.027	-0.102	S
C2	NO ₂	0.083	0.081	0.084	0.034	-0.018	S
C3	NO ₂	0.137	0.135	0.131	0.019	0.303	S
C4	NO ₂	0.109	0.108	0.104	0.014	0.341	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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EMEP – 32nd intercomparison of analytical methods

Laboratory 195, Institute of Public Health - Suobtica (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 [⌘]
C1	NO ₂	0.064	0.067	0.07	0.027	-0.213	S
C2	NO ₂	0.078	0.081	0.084	0.034	-0.163	S
C3	NO ₂	0.129	0.135	0.131	0.019	-0.126	S
C4	NO ₂	0.103	0.108	0.104	0.014	-0.102	S

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

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EMEP – 32nd 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 [⌘]
C1	NO ₂	0.067	0.067	0.07	0.027	-0.102	S
C2	NO ₂	0.08	0.081	0.084	0.034	-0.105	S
C3	NO ₂	0.135	0.135	0.131	0.019	0.195	S
C4	NO ₂	0.106	0.108	0.104	0.014	0.12	S

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

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EMEP – 32nd 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 [⌘]
C1	NO ₂	0.066	0.067	0.07	0.027	-0.139	S
C2	NO ₂	0.075	0.081	0.084	0.034	-0.25	S
C3	NO ₂	0.126	0.135	0.131	0.019	-0.287	S
C4	NO ₂	0.106	0.108	0.104	0.014	0.12	S

⌘ 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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