

EMEP – 43rd intercomparison of analytical methods - 2025

Laboratory 10, Air Quality Reference Centre (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 <i>µg N/ml</i>	0.101	0.107	0.104	0.012	-0.221	S
C2		0.108	0.115	0.111	0.019	-0.145	S
C3		0.141	0.147	0.142	0.027	-0.025	S
C4		0.178	0.187	0.186	0.021	-0.368	S

* Z score is unitless

[‡] EMEP quality norm; letters indicate:

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: <https://emep-ccc.nilu.no/intercomparison>

EMEP – 43rd intercomparison of analytical methods - 2025

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 [‡]
C1	NO ₂ <i>µg N/ml</i>	0.107	0.107	0.104	0.012	0.282	S
C2		0.116	0.115	0.111	0.019	0.272	S
C3		0.144	0.147	0.142	0.027	0.085	S
C4		0.189	0.187	0.186	0.021	0.164	S

* Z score is unitless

[‡] EMEP quality norm; letters indicate:

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

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EMEP – 43rd intercomparison of analytical methods - 2025

Laboratory 15, 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 <i>µg N/ml</i>	0.098	0.107	0.104	0.012	-0.473	S
C2		0.106	0.115	0.111	0.019	-0.25	S
C3		0.137	0.147	0.142	0.027	-0.17	S
C4		0.175	0.187	0.186	0.021	-0.513	S

* Z score is unitless

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EMEP – 43rd intercomparison of analytical methods - 2025

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 <i>µg N/ml</i>	0.102	0.107	0.104	0.012	-0.137	S
C2		0.114	0.115	0.111	0.019	0.168	S
C3		0.146	0.147	0.142	0.027	0.157	S
C4		0.183	0.187	0.186	0.021	-0.126	S

* Z score is unitless

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EMEP – 43rd intercomparison of analytical methods - 2025

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 <i>µg N/ml</i>	0.111	0.107	0.104	0.012	0.618	S
C2		0.12	0.115	0.111	0.019	0.481	S
C3		0.153	0.147	0.142	0.027	0.412	S
C4		0.197	0.187	0.186	0.021	0.551	S

* Z score is unitless

[‡] EMEP quality norm; letters indicate:

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

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EMEP – 43rd intercomparison of analytical methods - 2025

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	0.107	0.107	0.104	0.012	0.282	S
C2		0.116	0.115	0.111	0.019	0.272	S
C3	µg N/ml	0.151	0.147	0.142	0.027	0.339	S
C4		0.189	0.187	0.186	0.021	0.164	S

* Z score is unitless

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

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EMEP – 43rd intercomparison of analytical methods - 2025

Laboratory 22, Institute of Global Climate and Ecology (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 <i>µg N/ml</i>	0.099	0.107	0.104	0.012	-0.389	S
C2		0.114	0.115	0.111	0.019	0.168	S
C3		0.159	0.147	0.142	0.027	0.63	S
C4		0.191	0.187	0.186	0.021	0.261	S

* Z score is unitless

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

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EMEP – 43rd intercomparison of analytical methods - 2025

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 <i>µg N/ml</i>	0.054	0.107	0.104	0.012	-4.163	U
C2		0.059	0.115	0.111	0.019	-2.703	U
C3		0.074	0.147	0.142	0.027	-2.462	U
C4		0.095	0.187	0.186	0.021	-4.383	U

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

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EMEP – 43rd intercomparison of analytical methods - 2025

Laboratory 33, Latvian Environment, Geology and Meteorology 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 <i>µg N/ml</i>	0.107	0.107	0.104	0.012	0.282	S
C2		0.116	0.115	0.111	0.019	0.272	S
C3		0.144	0.147	0.142	0.027	0.085	S
C4		0.182	0.187	0.186	0.021	-0.174	S

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EMEP – 43rd intercomparison of analytical methods - 2025

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 <i>µg N/ml</i>	0.356	0.107	0.104	0.012	21.168	U
C2		0.388	0.115	0.111	0.019	14.472	U
C3		0.51	0.147	0.142	0.027	13.397	U
C4		0.611	0.187	0.186	0.021	20.58	U

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EMEP – 43rd intercomparison of analytical methods - 2025

Laboratory 42, Environment Reference Laboratory, Environment Agency
(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 <i>µg N/ml</i>	0.105	0.107	0.104	0.012	0.089	S
C2		0.117	0.115	0.111	0.019	0.298	S
C3		0.158	0.147	0.142	0.027	0.608	S
C4		0.187	0.187	0.186	0.021	0.077	S

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EMEP – 43rd intercomparison of analytical methods - 2025

Laboratory 110, Thüringer Landesanstalt f. Landwirtschaft TTL, Jena (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 <i>µg N/ml</i>	0.108	0.107	0.104	0.012	0.366	S
C2		0.117	0.115	0.111	0.019	0.325	S
C3		0.15	0.147	0.142	0.027	0.303	S
C4		0.189	0.187	0.186	0.021	0.164	S

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EMEP – 43rd intercomparison of analytical methods - 2025

Laboratory 178, Limnological Institute Russian Academy of Sciences (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	0.092	0.107	0.104	0.012	-0.976	Q
C2		0.044	0.115	0.111	0.019	-3.486	U
C3	µg N/ml	0.041	0.147	0.142	0.027	-3.662	U
C4		0.203	0.187	0.186	0.021	0.842	S

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EMEP – 43rd intercomparison of analytical methods - 2025

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 <i>µg N/ml</i>	0.107	0.107	0.104	0.012	0.282	S
C2		0.117	0.115	0.111	0.019	0.325	S
C3		0.148	0.147	0.142	0.027	0.23	S
C4		0.192	0.187	0.186	0.021	0.31	S

* Z score is unitless

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EMEP – 43rd intercomparison of analytical methods - 2025

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 <i>µg N/ml</i>	0.107	0.107	0.104	0.012	0.282	S
C2		0.118	0.115	0.111	0.019	0.377	S
C3		0.151	0.147	0.142	0.027	0.339	S
C4		0.189	0.187	0.186	0.021	0.164	S

* Z score is unitless

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EMEP – 43rd intercomparison of analytical methods - 2025

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 <i>µg N/ml</i>	0.106	0.107	0.104	0.012	0.198	S
C2		0.118	0.115	0.111	0.019	0.377	S
C3		0.149	0.147	0.142	0.027	0.266	S
C4		0.195	0.187	0.186	0.021	0.455	S

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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 <i>µg N/ml</i>	0.111	0.107	0.104	0.012	0.618	S
C2		0.119	0.115	0.111	0.019	0.429	S
C3		0.151	0.147	0.142	0.027	0.339	S
C4		0.191	0.187	0.186	0.021	0.261	S

* Z score is unitless

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EMEP – 43rd intercomparison of analytical methods - 2025

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 <i>µg N/ml</i>	0.103	0.107	0.104	0.012	-0.053	S
C2		0.117	0.115	0.111	0.019	0.325	S
C3		0.149	0.147	0.142	0.027	0.266	S
C4		0.197	0.187	0.186	0.021	0.551	S

* Z score is unitless

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EMEP – 43rd intercomparison of analytical methods - 2025

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 <i>µg N/ml</i>	0.112	0.107	0.104	0.012	0.702	S
C2		0.12	0.115	0.111	0.019	0.481	S
C3		0.154	0.147	0.142	0.027	0.448	S
C4		0.192	0.187	0.186	0.021	0.31	S

* Z score is unitless

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EMEP – 43rd intercomparison of analytical methods - 2025

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 <i>µg N/ml</i>	0.114	0.107	0.104	0.012	0.869	S
C2		0.12	0.115	0.111	0.019	0.481	S
C3		0.155	0.147	0.142	0.027	0.485	S
C4		0.193	0.187	0.186	0.021	0.358	S

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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	0.111	0.107	0.104	0.012	0.609	S
C2		0.119	0.115	0.111	0.019	0.455	S
C3	µg N/ml	0.153	0.147	0.142	0.027	0.416	S
C4		0.193	0.187	0.186	0.021	0.339	S

* Z score is unitless

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EMEP – 43rd intercomparison of analytical methods - 2025

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 [‡]
C1	NO ₂ <i>µg N/ml</i>	0.106	0.107	0.104	0.012	0.198	S
C2		0.116	0.115	0.111	0.019	0.272	S
C3		0.148	0.147	0.142	0.027	0.23	S
C4		0.189	0.187	0.186	0.021	0.164	S

* Z score is unitless

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Laboratory 201, Public Health Institute "Timok" (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 <i>µg N/ml</i>	0.108	0.107	0.104	0.012	0.366	S
C2		0.119	0.115	0.111	0.019	0.429	S
C3		0.15	0.147	0.142	0.027	0.303	S
C4		0.188	0.187	0.186	0.021	0.116	S

* Z score is unitless

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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 [‡]
C1	NO ₂ <i>µg N/ml</i>	0.108	0.107	0.104	0.012	0.366	S
C2		0.118	0.115	0.111	0.019	0.377	S
C3		0.152	0.147	0.142	0.027	0.376	S
C4		0.192	0.187	0.186	0.021	0.31	S

* Z score is unitless

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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: <https://emep-ccc.nilu.no/intercomparison>