

EMEP – 36th 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 [‡]
C1	NO ₂ µg N/ml	0.118	0.127	0.122	0.01	-0.379	S
C2		0.154	0.166	0.162	0.011	-0.671	S
C3		0.36	0.372	0.368	0.017	-0.452	S
C4		0.286	0.297	0.295	0.013	-0.734	S

* Z score is unitless

[‡] EMEP quality norm; the letters in the column indicates:

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

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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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EMEP – 36th 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 [‡]
C1	NO ₂ µg N/ml	0.129	0.127	0.122	0.01	0.673	S
C2		0.169	0.166	0.162	0.011	0.634	S
C3		0.373	0.372	0.368	0.017	0.33	S
C4		0.308	0.297	0.295	0.013	0.97	S

* Z score is unitless

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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 µg N/ml	0.109	0.127	0.122	0.01	-1.239	Q
C2		0.14	0.166	0.162	0.011	-1.89	Q
C3		0.305	0.372	0.368	0.017	-3.761	Q
C4		0.249	0.297	0.295	0.013	-3.6	Q

* Z score is unitless

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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 µg N/ml	0.122	0.127	0.122	0.01	0.003	S
C2		0.162	0.166	0.162	0.011	0.025	S
C3		0.354	0.372	0.368	0.017	-0.813	S
C4		0.284	0.297	0.295	0.013	-0.889	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 µg N/ml	0.122	0.127	0.122	0.01	0.003	S
C2		0.161	0.166	0.162	0.011	-0.062	S
C3		0.357	0.372	0.368	0.017	-0.633	S
C4		0.291	0.297	0.295	0.013	-0.347	S

* Z score is unitless

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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 µg N/ml	0.124	0.127	0.122	0.01	0.195	S
C2		0.162	0.166	0.162	0.011	0.025	S
C3		0.377	0.372	0.368	0.017	0.57	S
C4		0.287	0.297	0.295	0.013	-0.657	S

* Z score is unitless

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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 µg N/ml	0.124	0.127	0.122	0.01	0.195	S
C2		0.163	0.166	0.162	0.011	0.112	S
C3		0.367	0.372	0.368	0.017	-0.031	S
C4		0.294	0.297	0.295	0.013	-0.115	S

* Z score is unitless

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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 µg N/ml	0.12	0.127	0.122	0.01	-0.188	S
C2		0.16	0.166	0.162	0.011	-0.149	S
C3		0.368	0.372	0.368	0.017	0.029	S
C4		0.292	0.297	0.295	0.013	-0.27	S

* Z score is unitless

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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 µg N/ml	0.128	0.127	0.122	0.01	0.577	S
C2		0.166	0.166	0.162	0.011	0.373	S
C3		0.383	0.372	0.368	0.017	0.931	S
C4		0.308	0.297	0.295	0.013	0.97	S

* Z score is unitless

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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 µg N/ml	0.126	0.127	0.122	0.01	0.386	S
C2		0.166	0.166	0.162	0.011	0.373	S
C3		0.366	0.372	0.368	0.017	-0.091	S
C4		0.294	0.297	0.295	0.013	-0.115	S

* Z score is unitless

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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 µg N/ml	0.03	0.127	0.122	0.01	-8.791	U
C2		0.04	0.166	0.162	0.011	-10.591	U
C3		0.11	0.372	0.368	0.017	-15.494	U
C4		0.08	0.297	0.295	0.013	-16.688	U

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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 µg N/ml	0.122	0.127	0.122	0.01	0.003	S
C2		0.164	0.166	0.162	0.011	0.199	S
C3		0.362	0.372	0.368	0.017	-0.332	S
C4		0.294	0.297	0.295	0.013	-0.115	S

* Z score is unitless

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Laboratory 42, State Hydrometeorological Service, Chisnau (Moldova)

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Sample name	Determinand	Reported value	Expected value	Mean value	Standard deviation	Z score *	EMEP quality norm [‡]
C1	NO ₂ µg N/ml	0.095	0.127	0.122	0.01	-2.577	U
C2		0.153	0.166	0.162	0.011	-0.758	S
C3		0.343	0.372	0.368	0.017	-1.475	S
C4		0.318	0.297	0.295	0.013	1.744	S

* Z score is unitless

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EMEP – 36th 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 µg N/ml	0.085	0.127	0.122	0.01	-3.533	U
C2		0.113	0.166	0.162	0.011	-4.239	U
C3		0.223	0.372	0.368	0.017	-8.695	U
C4		0.156	0.297	0.295	0.013	-10.802	U

* Z score is unitless

[‡] 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

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EMEP – 36th 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 µg N/ml	0.126	0.127	0.122	0.01	0.386	S
C2		0.165	0.166	0.162	0.011	0.286	S
C3		0.363	0.372	0.368	0.017	-0.272	S
C4		0.295	0.297	0.295	0.013	-0.037	S

* Z score is unitless

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EMEP – 36th 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 µg N/ml	0.125	0.127	0.122	0.01	0.29	S
C2		0.162	0.166	0.162	0.011	0.025	S
C3		0.364	0.372	0.368	0.017	-0.212	S
C4		0.288	0.297	0.295	0.013	-0.579	S

* Z score is unitless

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EMEP – 36th 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 µg N/ml	0.125	0.127	0.122	0.01	0.29	S
C2		0.163	0.166	0.162	0.011	0.112	S
C3		0.37	0.372	0.368	0.017	0.149	S
C4		0.296	0.297	0.295	0.013	0.04	S

* Z score is unitless

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EMEP – 36th 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 µg N/ml	0.129	0.127	0.122	0.01	0.673	S
C2		0.168	0.166	0.162	0.011	0.547	S
C3		0.379	0.372	0.368	0.017	0.691	S
C4		0.305	0.297	0.295	0.013	0.737	S

* Z score is unitless

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EMEP – 36th 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 µg N/ml	0.123	0.127	0.122	0.01	0.099	S
C2		0.164	0.166	0.162	0.011	0.199	S
C3		0.37	0.372	0.368	0.017	0.149	S
C4		0.294	0.297	0.295	0.013	-0.115	S

* Z score is unitless

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EMEP – 36th 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 [‡]
C1	NO ₂ µg N/ml	0.126	0.127	0.122	0.01	0.386	S
C2		0.165	0.166	0.162	0.011	0.286	S
C3		0.37	0.372	0.368	0.017	0.149	S
C4		0.298	0.297	0.295	0.013	0.195	S

* Z score is unitless

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EMEP – 36th 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 µg N/ml	0.123	0.127	0.122	0.01	0.099	S
C2		0.163	0.166	0.162	0.011	0.112	S
C3		0.371	0.372	0.368	0.017	0.209	S
C4		0.293	0.297	0.295	0.013	-0.192	S

* Z score is unitless

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EMEP – 36th 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 µg N/ml	0.126	0.127	0.122	0.01	0.386	S
C2		0.164	0.166	0.162	0.011	0.199	S
C3		0.366	0.372	0.368	0.017	-0.091	S
C4		0.29	0.297	0.295	0.013	-0.425	S

* Z score is unitless

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EMEP – 36th 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 µg N/ml	0.125	0.127	0.122	0.01	0.29	S
C2		0.167	0.166	0.162	0.011	0.46	S
C3		0.378	0.372	0.368	0.017	0.631	S
C4		0.298	0.297	0.295	0.013	0.195	S

* Z score is unitless

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EMEP – 36th 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 µg N/ml	0.12	0.127	0.122	0.01	-0.188	S
C2		0.17	0.166	0.162	0.011	0.721	S
C3		0.368	0.372	0.368	0.017	0.029	S
C4		0.307	0.297	0.295	0.013	0.892	S

* Z score is unitless

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EMEP – 36th 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 µg N/ml	0.121	0.127	0.122	0.01	-0.092	S
C2		0.165	0.166	0.162	0.011	0.286	S
C3		0.375	0.372	0.368	0.017	0.45	S
C4		0.296	0.297	0.295	0.013	0.04	S

* Z score is unitless

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EMEP – 36th 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 µg N/ml	0.124	0.127	0.122	0.01	0.195	S
C2		0.166	0.166	0.162	0.011	0.373	S
C3		0.373	0.372	0.368	0.017	0.33	S
C4		0.291	0.297	0.295	0.013	-0.347	S

* Z score is unitless

[‡] EMEP quality norm; the letters in the column indicates:

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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 – 36th 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 [‡]
C1	NO ₂ µg N/ml	0.128	0.127	0.122	0.01	0.577	S
C2		0.168	0.166	0.162	0.011	0.547	S
C3		0.372	0.372	0.368	0.017	0.27	S
C4		0.299	0.297	0.295	0.013	0.272	S

* Z score is unitless

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EMEP – 36th 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 [‡]
C1	NO ₂ µg N/ml	0.14	0.127	0.122	0.01	1.724	Q
C2		0.175	0.166	0.162	0.011	1.156	S
C3		0.4	0.372	0.368	0.017	1.954	S
C4		0.32	0.297	0.295	0.013	1.899	S

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EMEP – 36th intercomparison of analytical methods

Laboratory 206, Public Health Institute Valjevo (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 µg N/ml	0.13	0.127	0.122	0.01	0.768	S
C2		0.17	0.166	0.162	0.011	0.721	S
C3		0.389	0.372	0.368	0.017	1.292	S
C4		0.303	0.297	0.295	0.013	0.582	S

* Z score is unitless

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