

LABORATORY ANALYSIS REPORT

NITROGEN DIOXIDE IN DIFFUSION TUBES BY U.V.SPECTROPHOTOMETRY

REPORT NUMBER Q03121R
BOOKING IN REFERENCE Q03121
DESPATCH NOTE 70211
CUSTOMER Tewkesbury Borough Council Attn: Philip Grist
Environmental Health Dept.
Gloucester Road
Tewkesbury 'A'
Gloucestershire
GL20 5TT

DATE SAMPLES RECEIVED 06/04/2022

Location	Sample Number	Exposure Data			$\mu\text{g}/\text{m}^3$ *	ppb *	$\mu\text{g NO}_2$ on tube
		Date On*	Date Off*	Time* (hr.)			
22/03/(3)1N	1942211	02/03/2022	05/04/2022	815.75	28.84	15.05	1.71
22/03/(3)2N	1942212	02/03/2022	05/04/2022	815.75	17.22	8.99	1.02
22/03/5N	1942213	02/03/2022	05/04/2022	815.75	26.48	13.82	1.57
22/03/6N	1942214	02/03/2022	05/04/2022	811.75	26.95	14.07	1.59
22/03/14N	1942215	03/03/2022	04/04/2022	768.00	24.63	12.86	1.38
22/03/15N	1942216	03/03/2022	04/04/2022	768.00	16.05	8.38	0.90
22/03/16N	1942195	03/03/2022	04/04/2022	768.00	24.31	12.69	1.36
22/03/20N	1942196	02/03/2022	05/04/2022	815.50	6.82	3.56	0.40
22/03/35N	1942197	02/03/2022	05/04/2022	816.00	27.47	14.34	1.63
22/03/37N	1942198	02/03/2022	05/04/2022	816.00	23.96	12.51	1.42
22/03/38N	1942199	02/03/2022	05/04/2022	816.00	22.75	11.87	1.35
22/03/41N	1942200	02/03/2022	05/04/2022	816.00	33.72	17.60	2.00
22/03/47N	1942201	02/03/2022	05/04/2022	816.00	25.01	13.05	1.48
22/03/50N	1942202	02/03/2022	05/04/2022	815.75	12.33	6.44	0.73
22/03/52N	1942203	03/03/2022	04/04/2022	768.00	20.53	10.72	1.15
22/03/53N	1942204	02/03/2022	05/04/2022	815.75	21.08	11.00	1.25
22/03/55N	1942205	02/03/2022	05/04/2022	815.75	17.00	8.87	1.01
22/03/56N	1942206	02/03/2022	05/04/2022	815.75	12.89	6.73	0.76
22/03/57N	1942207	02/03/2022	05/04/2022	815.75	13.53	7.06	0.80
22/03/blank	1942208			816.00	0.40	0.21	0.02
Laboratory Blank				816.00	0.27	0.14	0.016

Comment: Results are not blank subtracted

Results have been corrected to a temperature of 293 K (20°)

Overall M.U. $\pm 9.7\%$

The reported expanded uncertainty is based on a standard uncertainty multiplied by a factor of $k=2$, providing a level of confidence of approximately 95%. Uncertainty of measurement has not been applied to the reported results.

Limit of Detection 0.043 μgNO_2

Tube Preparation: 50% TEA /Acetone

Analyst Name Isra Otman

Analysed on UV CARY1

Report Checked By Vanessa Kellie

Date of Analysis 20/04/2022

Date of Report 20/04/2022

Samples have been tested within the scope of Gradko International Ltd. Laboratory Quality Procedures. Results within this report relate only to samples as received. Data provided by the client and any subsequent calculations shall be indicated by an asterisk (*), these calculations and results are not within the scope of our UKAS accreditation. Any queries concerning data in this report should be directed to the Laboratory Manager Gradko International Ltd. This report is not to be reproduced, except in full, without the written permission of Gradko International Ltd.

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This signature confirms the authenticity of these results
Signed.....
L. Gates, Laboratory Manager

LABORATORY ANALYSIS REPORT

Analysis carried out in accordance with documented in-house Laboratory Method GLM7

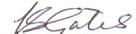
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