

LABORATORY ANALYSIS REPORT

Report Number N05840R
Customer SIA Estonian, Latvian & Lithuanian Environment
Vilandes Street 3-6
Riga
LV-1010
Latvia
Booking In Reference T1036
Despatch Note Number 73023
Date Samples Received 09/08/2019
Diffusion Tube Type 2BSUL

Identification and estimation of ng on tube in accordance with ISO16000-6

Index to UKAS Accreditation Status

U	Analysis is UKAS accredited under our Fixed Scope
F	Analysis is UKAS accredited under our Flexible Scope
N	Analysis is not UKAS accredited

Tube Number MI068611
Gradko Lab Reference 05N0770
Sample Volume (l) 1.50
Sample Location Banoluziy 4
Sample ID 1

	Accreditation	Estimated ng on tube	μgm^{-3*}
Top 20 VOC	Status		
m/p-Xylene	U	100	66.7
Toluene	U	28	18.4
Ethylbenzene	U	27	18.2
o-Xylene	U	27	17.8
Diethyltoluamide	N	12	7.8
Nonanal**	N	<5	<3.3
Benzene	U	<5	<3.3

7 Compounds Detected

Tube Number 003514
Gradko Lab Reference 05N0771
Sample Volume (l) 1.50
Sample Location Silutes pl. 84
Sample ID 2

	Accreditation	Estimated ng on tube	μgm^{-3*}
Top 20 VOC	Status		
m/p-Xylene	U	122	81.2
Ethylbenzene	U	33	22.3
o-Xylene	U	33	21.8

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LABORATORY ANALYSIS REPORT

	Accreditation Status	Estimated ng on tube	μgm^{-3} *
Toluene	U	30	20.3
Benzene	U	<5	<3.3

5 Compounds Detected

Tube Number	GRA08709
Gradko Lab Reference	05N0772
Sample Volume (l)	1.50
Sample Location	Silutes pl. 95
Sample ID	3

	Accreditation Status	Estimated ng on tube	μgm^{-3} *
Top 20 VOC			
m/p-Xylene	U	116	77.4
Ethylbenzene	U	33	21.9
o-Xylene	U	32	21.4
Toluene	U	31	20.8
Decanal**	N	12	8.2
Benzene	U	6	4.2

6 Compounds Detected

Tube Number	GRA11282
Gradko Lab Reference	05N0769
Sample Location	Control Southern d
Sample ID	0

	Accreditation Status	Estimated ng on tube
Top 20 VOC		
m/p-Xylene	U	107
Decanal**	N	56
Ethylbenzene	U	30
o-Xylene	U	29
Toluene	U	28
Nonanal**	N	18
Butane, 2-methyl-	N	11
Benzene	U	<5

8 Compounds detected

Tube Number	GRA0551
Gradko Lab Reference	19_190819_Blank6_TC1
Sample ID	Laboratory Blank

	Accreditation Status	Estimated ng on tube
Top 20 VOC		
Benzene	U	<5

1 Compound detected

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Report Number	N06100R
Customer	SIA Estonian, Latvian & Lithuanian Environment
	Vilandes Iela 3
	DZ.6
	Riga
	LV-1010
	Latvia
Booking In Reference	T1060
Despatch Note Number	73023
Date Samples Received	19/08/2019
Diffusion Tube Type	2BSUL
Sampling Date	14/08/2019

Identification and estimation of ng on tube in accordance with ISO16000-6

Index to UKAS Accreditation Status

U	Analysis is UKAS accredited under our Fixed Scope
F	Analysis is UKAS accredited under our Flexible Scope
N	Analysis is not UKAS accredited

Tube Number	260835
Gradko Lab Reference	05N0773
Sample Volume (l)	1.50
Sample Location	Virsutine 43
Sample ID	1

	Accreditation	Estimated ng on tube	μgm^{-3}*
Top 20 VOC	Status		
m/p-Xylene	U	105	69.7
Butane, 2-methyl-	N	75	50
o-Xylene	U	29	19
Ethylbenzene	U	28	19
Toluene	U	28	19
Pentane	U	12	8.1
Butane, 2,2-dimethyl-	N	9	6
Benzene	U	5	4
8 Compounds detected			

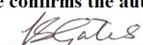
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Tube Number GRA02926
Gradko Lab Reference 05N0774
Sample Volume (l) 1.50
Sample Location Stadiono 17
Sample ID 2

Accreditation	Status	Estimated ng on tube	μgm^{-3*}
Top 20 VOC	Status		
Butane, 2-methyl-	N	206	137
m/p-Xylene	U	99	66
Pentane	U	31	21
Toluene	U	30	20
Ethylbenzene	U	27	18
o-Xylene	U	26	18
Butane, 2,2-dimethyl-	N	20	14
Pentane, 2-methyl-	N	17	11
Benzene	U	13	8.5
Pentane, 3-methyl-	N	8	5
Hexane	U	6	4
11 Compounds detected			

Tube Number GRA11913
Gradko Lab Reference 05N0775
Sample Volume (l) 1.50
Sample Location Svyturio 22
Sample ID 3

Accreditation	Status	Estimated ng on tube	μgm^{-3*}
Top 20 VOC	Status		
Butane, 2-methyl-	N	287	192
m/p-Xylene	U	98	65
Pentane	U	48	32
Butane, 2,2-dimethyl-	N	33	22
Toluene	U	33	22
Ethylbenzene	U	27	18
Pentane, 2-methyl-	N	27	18
o-Xylene	U	26	17
Benzene	U	18	12
Pentane, 3-methyl-	N	10	6.8
Hexane	U	9	6
11 Compounds detected			

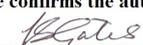
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Tube Number	003933	
Gradko Lab Reference	05N0776	
Sample Location	Control Northern d	
Sample ID	0	
	Accreditation	Estimated
	Status	ng on tube
Top 20 VOC		
m/p-Xylene	U	114
Ethylbenzene	U	31
o-Xylene	U	31
Toluene	U	27
Decanal**	N	11
Benzene	U	6
6 Compounds detected		

Tube Number	GRA0551	
Gradko Lab Reference	19_190819_Blank6_TC1	
Sample ID	Laboratory Blank	
	Accreditation	Estimated
	Status	ng on tube
Top 20 VOC		
Benzene	U	<5
1 Compound detected		

Estimated results as ng on tube are calculated by reference to toluene in accordance with ISO 16000-6

Results are not Blank corrected.

Results reported as <5ng on tube are below the reporting limit.

Reporting limit for non BTEX compounds are derived from the non-specific standard Toluene.

**Compounds may be an artifact due to reaction of ozone with the Tenax sorbent.

Analysts Name	Gavin Aikman	Date of Analysis	20/08/2019
Report Checked By	Mariella Angelova	Date of Report	06/09/2019

Analysis has been carried out in accordance with in-house method GLM 13

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LABORATORY ANALYSIS REPORT

Report Number N06191R
Customer SIA Estonian, Latvian & Lithuanian Environment
Vilandes Iela 3
Riga
DZ.6
LV-1010
Latvia

Booking In Reference T1078
Despatch Note Number 73526
Date Samples Received 22/08/2019
Diffusion Tube Type 2BSUL
Sampling Date 20.08.2019

Identification and estimation of ng on tube in accordance with ISO16000-6

Index to UKAS Accreditation Status

U	Analysis is UKAS accredited under our Fixed Scope
F	Analysis is UKAS accredited under our Flexible Scope
N	Analysis is not UKAS accredited

Northern d.

Tube Number 003929
Gradko Lab Reference 05N0992
Sample Volume (l) 1.50
Sample Location Sportiiviuky 35
Sample ID 1

Top 20 VOC	Accreditation Status	Estimated ng on tube	μgm^{-3} *
Butane, 2-methyl-	N	236	157
m/p-Xylene	U	85	56
Toluene	U	42	28
Pentane	U	36	24
Pentane, 2-methyl-	N	27	18
Nonanal**	N	18	12
Ethylbenzene	U	17	11
o-Xylene	U	17	11
Decanal**	N	14	9
Pentane, 3-methyl-	N	14	9
Benzene	U	13	9
Butane, 2,2-dimethyl-	N	11	7.7
Cyclopentane, methyl-	N	7	4.6
Hexane, 3-methyl-	N	7	4.5

14 Compounds Detected

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Tube Number 003932
Gradko Lab Reference 05N0993
Sample Volume (l) 1.50
Sample Location Svyturie 22
Sample ID 2

Top 20 VOC	Accreditation Status	Estimated ng on tube	μgm^{-3*}
Butane, 2-methyl-	N	159	106
m/p-Xylene	U	42	28
Butane, 2,2-dimethyl-	N	25	17
Toluene	U	24	16
Pentane	U	18	12
Nonanal**	N	17	12
Decanal**	N	13	8.6
o-Xylene	U	12	7.8
Ethylbenzene	U	12	7.8
Benzene	U	11	7.2

10 Compounds Detected

Tube Number 003924
Gradko Lab Reference 05N0994
Sample Volume (l) 1.50
Sample Location Garage Conimunity of Svyturys
Sample ID 3

Top 20 VOC	Accreditation Status	Estimated ng on tube	μgm^{-3*}
m/p-Xylene	U	43	28
Nonanal**	N	17	11
Toluene	U	15	10
o-Xylene	U	13	8.7
Ethylbenzene	U	12	8.1
Decanal**	N	12	7.7
Butane, 2-methyl-	N	9	5.9
Benzene	U	8	5.1

8 Compounds Detected

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LABORATORY ANALYSIS REPORT

Southern d.

Tube Number 003936
Gradko Lab Reference 05N0996
Sample Volume (l) 1.50
Sample Location Laukininky 35
Sample ID 4

Top 20 VOC	Accreditation Status	Estimated ng on tube	μgm^{-3*}
m/p-Xylene	U	66	44
Toluene	U	14	9.6
Ethylbenzene	U	11	7.2
Decanal**	N	10	6.9
o-Xylene	U	10	6.8
Benzene	U	<5	<3

6 Compounds Detected

Tube Number 003925
Gradko Lab Reference 05N0997
Sample Volume (l) 1.50
Sample Location Laukininky and Juriuiuky Crossroads
Sample ID 5

Top 20 VOC	Accreditation Status	Estimated ng on tube	μgm^{-3*}
m/p-Xylene	U	38	25
Toluene	U	14	9.2
Ethylbenzene	U	11	7.2
o-Xylene	U	10	6.7
Benzene	U	<5	<3

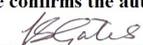
5 Compounds Detected

Tube Number 003938
Gradko Lab Reference 05N0998
Sample Volume (l) 1.50
Sample Location Mogiliovo 16
Sample ID 6

Top 20 VOC	Accreditation Status	Estimated ng on tube	μgm^{-3*}
m/p-Xylene	U	41	27
Toluene	U	16	10.3
Ethylbenzene	U	11	7.6
o-Xylene	U	11	7.5
Decanal**	N	9	6.0
Benzene	U	<5	<3

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6 Compounds Detected

Tube Number	003934	
Gradko Lab Reference	05N0995	
Sample Location	Control Northern d	
Sample ID	0	
	Accreditation	Estimated
	Status	ng on tube
Top 20 VOC	U	<5
Benzene		
1 Compound detected		

Estimated results as ng on tube are calculated by reference to toluene in accordance with ISO 16000-6

Results are not Blank corrected.

Results reported as <5ng on tube are below the reporting limit.

Reporting limit for non BTEX compounds are derived from the non-specific standard Toluene.

**Compounds may be an artifact due to reaction of ozone with the Tenax sorbent.

Analysts Name	Gavin Aikman	Date of Analysis	05/09/2019
Report Checked By	Mariella Angelova	Date of Report	06/09/2019

Analysis has been carried out in accordance with in-house method GLM 13

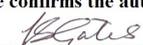
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LABORATORY ANALYSIS REPORT

Report Number N06278R
Customer SIA Estonian, Latvian & Lithuanian Environment
 Vilandes iela 3
 DZ.6
 Riga
 LV-1010
 Latvia
Booking In Reference T1102
Despatch Note Number 73526
Date Samples Received 30/08/2019
Diffusion Tube Type 2BSUL
Sampling Date 28/08/2018

Identification and estimation of ng on tube in accordance with ISO16000-6

Index to UKAS Accreditation Status

U	Analysis is UKAS accredited under our Fixed Scope
F	Analysis is UKAS accredited under our Flexible Scope
N	Analysis is not UKAS accredited

Southern d

Tube Number 003937
Gradko Lab Reference 05N0999
Sample Volume (l) 1.50
Sample Location L point
Sample ID 1

	Accreditation Status	Estimated ng on tube	μgm^{-3} *
Top 20 VOC			
m/p-Xylene	U	33	22
Toluene	U	12	8.2
Nonanal**	N	12	8.1
o-Xylene	U	10	6.9
Decanal**	N	9	6
Ethylbenzene	U	9	6
Benzene	U	6	4

7 Compounds Detected

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LABORATORY ANALYSIS REPORT

Tube Number	003926		
Gradko Lab Reference	05N1000		
Sample Volume (l)	1.50		
Sample Location	Jaikos pr.141		
Sample ID	2		
	Accreditation	Estimated	
	Status	ng on tube	µgm^{-3*}
Top 20 VOC			
m/p-Xylene	U	33	22
Decanal**	N	26	17
Nonanal**	N	16	11
Toluene	U	11	7.4
o-Xylene	U	9	6
Ethylbenzene	U	9	6
Benzene	U	6	4
1-Hexanol, 2-ethyl-	N	<5	<3
8 Compounds Detected			

Tube Number	003928		
Gradko Lab Reference	05N1001		
Sample Volume (l)	1.50		
Sample Location	Laukininky g.41		
Sample ID	3		
	Accreditation	Estimated	
	Status	ng on tube	µgm^{-3*}
Top 20 VOC			
m/p-Xylene	U	31	21
Toluene	U	10	7.0
o-Xylene	U	9	6
Ethylbenzene	U	8	6
Nonanal**	N	<5	<3
Decanal**	N	<5	<3
Benzene	U	<5	<3
7 Compounds Detected			

Tube Number	003927		
Gradko Lab Reference	05N1002		
Sample Location	Control Southern d		
Sample ID	0		
	Accreditation	Estimated	
	Status	ng on tube	
Top 20 VOC			
Benzene	U	8	
1 Compound detected			

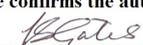
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LABORATORY ANALYSIS REPORT

Report Number	N06397R
Customer	SIA Estonian, Latvian & Lithuanian Environment
	Vilandes Iela 3
	DZ.6
	Riga
	LV-1010
	Latvia
Booking In Reference	T1114
Despatch Note Number	73526
Date Samples Received	04/09/2019
Diffusion Tube Type	2BSUL
Sampling Date	02/09/2019

Identification and estimation of ng on tube in accordance with ISO16000-6

Index to UKAS Accreditation Status

U	Analysis is UKAS accredited under our Fixed Scope
F	Analysis is UKAS accredited under our Flexible Scope
N	Analysis is not UKAS accredited

Southern d.

Tube Number	003930		
Gradko Lab Reference	05N1205		
Sample Volume (l)	1.50		
Sample Location	Near Swiltelis 2.2		
Sample ID	1		
	Accreditation	Estimated	
Top 20 VOC	Status	ng on tube	µgm^{-3*}
Hexanoic acid, 3,5,5-trimethyl-	N	127	84.6
m/p-Xylene	U	56	37
Toluene	U	21	14
Decanal**	N	21	14
5,9-Undecadien-2-one, 6,10-dimethyl-, (E)-	N	17	11
Limonene	N	16	11
Ethylbenzene	U	15	10
o-Xylene	U	14	10
Benzene	U	7	4
9 Compounds detected			

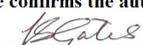
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LABORATORY ANALYSIS REPORT

Tube Number 003922
Gradko Lab Reference 05N1206
Sample Volume (l) 1.50
Sample Location Near Miuijos Juriuinliy crossroads
Sample ID 2

Accreditation Status	Estimated ng on tube	μgm^{-3*}
U	58	39
N	25	17
U	21	14
U	17	11
N	16	11
U	16	11
N	12	8.0
U	<5	<3

Top 20 VOC

m/p-Xylene
 Decanal**
 Toluene
 o-Xylene
 Nonanal**
 Ethylbenzene
 5,9-Undecadien-2-one, 6,10-dimethyl-, (E)-
 Benzene

8 Compounds detected

Tube Number 003919
Gradko Lab Reference 05N1207
Sample Volume (l) 1.50
Sample Location Jaikos pr.144
Sample ID 3

Accreditation Status	Estimated ng on tube	μgm^{-3*}
U	316	211
N	107	71.6
N	53	35
U	36	24
U	36	24
U	29	20
U	29	19

Top 20 VOC

m/p-Xylene
 Decanal**
 Hexanoic acid, 3,5,5-trimethyl-
 Toluene
 o-Xylene
 Ethylbenzene
 Benzene

7 Compounds detected

Tube Number 003920
Gradko Lab Reference 05N1208
Sample Location Control
Sample ID 0

Accreditation Status	Estimated ng on tube
U	6

Top 20 VOC

Benzene

1 Compounds detected

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LABORATORY ANALYSIS REPORT

Report Number	N06648R
Customer	SIA Estonian, Latvian & Lithuanian Environment Vilandes Iela 3 DZ.6 Riga LV-1010 Latvia
Booking In Reference	T1127
Despatch Note Number	73526
Date Samples Received	06/09/2019
Diffusion Tube Type	2BSUL
Sampling Date	04/09-05/09

Identification and estimation of ng on tube in accordance with ISO16000-6

Index to UKAS Accreditation Status

U	Analysis is UKAS accredited under our Fixed Scope
F	Analysis is UKAS accredited under our Flexible Scope
N	Analysis is not UKAS accredited

Southern d.

Tube Number	003935
Gradko Lab Reference	05N1209
Sample Volume (l)	1.50
Sample Location	Lubiny 2.2
Sample ID	1

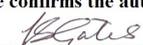
Top 20 VOC

	Accreditation Status	Estimated ng on tube	µgm⁻³*
m/p-Xylene	U	21	14
Decanal**	N	13	8.4
5,9-Undecadien-2-one, 6,10-dimethyl-, (E)-	N	11	7.4
Toluene	U	7	5
Ethylbenzene	U	6	4
o-Xylene	U	5	4
Benzene	U	<5	<3

7 Compounds detected

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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Signed.....
L. Gates, Laboratory Manager

LABORATORY ANALYSIS REPORT

Tube Number 003518
Gradko Lab Reference 05N1210
Sample Volume (l) 1.50
Sample Location Riuiky 31
Sample ID 2

	Accreditation Status	Estimated ng on tube	µgm ^{-3*}
Top 20 VOC	Status		
Decanal**	N	55	36
Nonanal**	N	23	15
m/p-Xylene	U	22	15
5,9-Undecadien-2-one, 6,10-dimethyl-, (E)-	N	12	7.8
Toluene	U	9	6
Ethylbenzene	U	6	4
o-Xylene	U	6	4
Benzene	U	<5	<3
8 Compounds detected			

Tube Number 003923
Gradko Lab Reference 05N1211
Sample Volume (l) 1.50
Sample Location Jiesioji 7
Sample ID 3

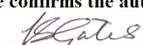
	Accreditation Status	Estimated ng on tube	µgm ^{-3*}
Top 20 VOC	Status		
m/p-Xylene	U	20	13
Hexanoic acid, 3,5,5-trimethyl-	N	15	10
Toluene	U	9	6
Ethylbenzene	U	6	4
o-Xylene	U	5	4
Decanal**	N	5	4
Benzene	U	<5	<3
7 Compounds detected			

Tube Number GRA07596
Gradko Lab Reference 05N1208
Sample Location Control
Sample ID 0

	Accreditation Status	Estimated ng on tube
Top 20 VOC	Status	
Decanal**	N	8
Benzene	U	<5
2 Compounds detected		

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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