



Glasgow Scientific Services

64 Everard Drive, Springburn, Glasgow, G21 1XG

Test Report

Client Ref No: A MCPHERSON
Report Date: 23 March 2020

Test Report No: 70663632
Issue No: 1

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Contract: NLBLOCK

North Lanarkshire Council
Business Regulation Service
Fleming House
Tryst Road
Cumbernauld
G67 1DZ

Technical Enquiries : Mass Spec
Phone 0141 276 0628
[REDACTED]@Glasgow.Gov.uk
Fax 0141 276 0669

Sample Details :

Client's Description: Passive Air Monitoring
Date received: 10/03/2020
Sampled by: [REDACTED]
Sample Type: Passive Tenax air sample for VOCs
Site: St Ambrose High
Sample Point: SS5
Date/Time on: 17/01/2020 at 16:00
Date/Time off: 06/03/2020 at 15:25
Tenax I.D. MI056741

Test Note: Tenax adsorption tubes are used to absorb volatile and semi volatile organic compounds in the atmosphere and do not distinguish between the background odours in a room (e.g. cleaning and personal hygiene products) and the complaint odours.

TVOC - Total Volatile Organic Contamination, is the Total of VOC detected in the sample tube

Test Details :

| <u>Determination</u> | <u>Result</u> | <u>Units</u> |
|-------------------------------|----------------|-------------------|
| Sample collected by | Karen Macvicar | |
| Total VOC ng | 5720 | ng |
| Total VOC mg/m ³ | 0.081 | mg/m ³ |
| Benzene | 0.0003 | |
| Toluene | 0.0018 | |
| m- & p- xylene | 0.0004 | |
| n-heptane | 0.0030 | mg/m ³ |
| Butan-1-ol | 0.0019 | mg/m ³ |
| Arcosolv | 0.0061 | mg/m ³ |
| Limonene | 0.0013 | |
| 2-ethyl hexanol | 0.0038 | mg/m ³ |
| Decamethyl cyclopentasiloxane | 0.0127 | mg/m ³ |
| Nonanal | 0.0031 | |
| Menthol | 0.0028 | mg/m ³ |

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George Gillespie BEng (Hons) CEng MICE - Executive Director, Neighbourhoods & Sustainability

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Test Details Continued :

| <u>Determination</u> | <u>Result</u> | <u>Units</u> |
|----------------------|---------------|--------------|
|----------------------|---------------|--------------|

Opinions/Comments:

1. The total volatile organic contamination (TVOC) was 0.081 mg/m³. This TVOC was within the range we expect for indoor air.

2. The following comments are related to the total volatile organic contamination (TVOC). The statement below is from Molhave: "Volatile Organic Compounds, Indoor Air Quality and Health" states the health effects may be experienced at the following concentrations of VOCs in indoor air. Odour complaints, irritation and discomfort can occur between 0.2 - 3.0 mg/m³.

The TVOC level detected is below the lower range stated above and would not be expected to cause a complaint.

3. Compounds detected are not unusual for a school environment where there has been recent refurbishment and painting.

4. Benzene level of 0.0003 mg/m³ was considerably lower than The Expert Panel Air Quality Standards (EPAQS) in Table D4 of document IPPC H1 Horizontal Guidance Note, which states that the annual mean for benzene is 0.005 mg/m³. Benzene, for example is a combustion product of coal, wood fuels and car exhausts.

5. Toluene is a common solvent, found in paints, paint thinners, silicone sealants, rubber, adhesives (glues), lacquers and disinfectants.

6. Decamethyl cyclopentasiloxane DMPS, is an oily odourless solvent which is commonly used in paints, deodorants, hairsprays, polishes and many other cleaning materials.

7. Butanol, limonene and nonanal are common compounds found in cleaning products.

8. 2-ethyl hexanol is in the production of plasticisers, coatings, adhesives and other specialty chemicals. The largest market for 2-ethyl hexanol has been the plasticisers dioctyl phthalate which is used in the manufacture polyvinyl chloride products.

9. Xylene compounds can come from rubber and plastics, in solvents, and in paints and lacquers.

10. Arcosolv is used in adhesives and paints.

11. In summary, the compounds detected in the atmosphere and the concentration levels were not uncommon. The recent refurbishments that have occurred could have contributed to a number of the compounds detected.

Approved Signatory:

Chemist

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North Lanarkshire Council
Business Regulation Service
Fleming House
Tryst Road
Cumbernauld
G67 1DZ

Technical Enquiries : Mass Spec
Phone 0141 276 0628
[REDACTED]@Glasgow.Gov.uk
Fax 0141 276 0669

Sample Details :

Client's Description: Passive Air Monitoring
Date received: 10/03/2020
Sampled by: [REDACTED]
Sample Type: Passive Tenax air sample for VOCs
Site: St Ambrose High
Sample Point: Maths 6 1-080C
Date/Time on: 17/01/2020 at 15:50
Date/Time off: 06/03/2020 at 15:34
Tenax I.D. MI056732

Test Note: Tenax adsorption tubes are used to absorb volatile and semi volatile organic compounds in the atmosphere and do not distinguish between the background odours in a room (e.g. cleaning and personal hygiene products) and the complaint odours.

TVOC - Total Volatile Organic Contamination, is the Total of VOC detected in the sample tube

Test Details :

| <u>Determination</u> | <u>Result</u> | <u>Units</u> |
|-------------------------------|----------------|-------------------|
| Sample collected by | Karen Macvicar | |
| Total VOC ng | 7299 | ng |
| Total VOC mg/m ³ | 0.103 | mg/m ³ |
| Benzene | 0.0003 | |
| Toluene | 0.003 | |
| m- & p- xylene | 0.0004 | |
| n-heptane | 0.0030 | mg/m ³ |
| Butan-1-ol | 0.0023 | mg/m ³ |
| Arcosolv | 0.0055 | mg/m ³ |
| Limonene | 0.0013 | |
| 2-ethyl hexanol | 0.0044 | mg/m ³ |
| Decamethyl cyclopentasiloxane | 0.0217 | mg/m ³ |
| Nonanal | 0.0036 | |
| Menthol | 0.0028 | mg/m ³ |

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Test Details Continued :

| Determination | Result | Units |
|---------------|--------|-------|
|---------------|--------|-------|

Options/Comments:

1. The total volatile organic contamination (TVOC) was 0.10 mg/m³. This TVOC was within the range we expect for indoor air.

2. The following comments are related to the total volatile organic contamination (TVOC).
The statement below is from Molhave: "Volatile Organic Compounds, Indoor Air Quality and Health" states the health effects may be experienced at the following concentrations of VOCs in indoor air.
Odour complaints, irritation and discomfort can occur between 0.2 - 3.0 mg/m³.

The TVOC level detected is below the lower range stated above and would not be expected to cause a complaint.

3. Compounds detected are not unusual for a school environment where there has been recent refurbishment and painting.

4. Benzene level of 0.0003 mg/m³ was considerably lower than The Expert Panel Air Quality Standards (EPAQS) in Table D4 of document IPCC H1 Horizontal Guidance Note, which states that the annual mean for benzene is 0.005 mg/m³. Benzene, for example is a combustion product of coal, wood fuels and car exhausts.

5. Toluene is a common solvent, found in paints, paint thinners, silicone sealants, rubber, adhesives (glues), lacquers and disinfectants.

6. Decamethyl cyclopentasiloxane DMPS, is an oily odourless solvent which is commonly used in paints, deodorants, hairsprays, polishes and many other cleaning materials.

7. Butanol, limonene and nonanal are common compounds found in cleaning products.

8. 2-ethyl hexanol is in the production of plasticisers, coatings, adhesives and other specialty chemicals. The largest market for 2-ethyl hexanol has been the plasticisers dioctyl phthalate which is used in the manufacture polyvinyl chloride products.

9. Xylene compounds can come from rubber and plastics, in solvents, in paints and lacquers.

10. Arcosolv is used in adhesives and paints.

11. In summary, the compounds detected in the atmosphere and the concentration levels were not uncommon. The recent refurbishments that have occurred could have contributed to a number of the compounds detected.

Approved Signatory:

[Redacted Signature]

Chemist



Glasgow Scientific Services

64 Everard Drive, Springburn, Glasgow, G21 1XG

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North Lanarkshire Council
Business Regulation Service
Fleming House
Tryst Road
Cumbernauld
G67 1DZ

Technical Enquiries : Mass Spec
Phone 0141 276 0628
[REDACTED]@Glasgow.Gov.uk
Fax 0141 276 0669

Sample Details :

Client's Description: Passive Air Monitoring
Date received: 10/03/2020
Sampled by: [REDACTED]
Sample Type: Passive Tenax air sample for VOCs
Site: Buchanan High School
Sample Point: ICT G-031
Date/Time on: 17/01/2020 at 16:15
Date/Time off: 06/03/2020 at 15:40
Tenax I.D. MI056747

Test Note: Tenax adsorption tubes are used to absorb volatile and semi volatile organic compounds in the atmosphere and do not distinguish between the background odours in a room (e.g. cleaning and personal hygiene products) and the complaint odours.

TVOC - Total Volatile Organic Contamination, is the Total of VOC detected in the sample tube

Test Details :

| <u>Determination</u> | <u>Result</u> | <u>Units</u> |
|-------------------------------|----------------|-------------------|
| Sample collected by | Karen Macvicar | |
| Total VOC ng | 4919 | ng |
| Total VOC mg/m ³ | 0.070 | mg/m ³ |
| Benzene | 0.0003 | |
| Toluene | 0.020 | |
| m- & p- xylene | 0.001 | |
| Butan-1-ol | 0.0012 | mg/m ³ |
| Arcosolv | 0.0013 | mg/m ³ |
| Limonene | 0.0012 | |
| 2-ethyl hexanol | 0.0009 | mg/m ³ |
| Decamethyl cyclopentasiloxane | 0.0023 | mg/m ³ |
| Nonanal | 0.0015 | |
| Menthol | 0.0002 | mg/m ³ |
| Butanone | 0.0044 | mg/m ³ |

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Test Details Continued :

| <u>Determination</u> | <u>Result</u> | <u>Units</u> |
|----------------------|---------------|-------------------|
| Butyl acetate | 0.0086 | mg/m ³ |

Opinions/Comments:

1. The total volatile organic contamination (TVOC) was 0.070 mg/m³. This TVOC was within the range we expect for indoor air.
2. The following comments are related to the total volatile organic contamination (TVOC).
The statement below is from Molhave: "Volatile Organic Compounds, Indoor Air Quality and Health" states the health effects may be experienced at the following concentrations of VOCs in indoor air.
Odour complaints, irritation and discomfort can occur between 0.2 - 3.0 mg/m³.

The TVOC level detected is below the lower range stated above and would not be expected to cause a complaint.
3. Compounds detected are not unusual for a school environment where there has been recent refurbishment and painting.
4. Benzene level of 0.0003 mg/m³ was considerably lower than The Expert Panel Air Quality Standards (EPAQS) in Table D4 of document IPPC H1 Horizontal Guidance Note, which states that the annual mean for benzene is 0.005 mg/m³. Benzene, for example is a combustion product of coal, wood fuels and car exhausts.
5. Toluene is a common solvent, found in paints, paint thinners, silicone sealants, rubber, adhesives (glues), lacquers and disinfectants.
6. Decamethyl cyclopentasiloxane DMPS, is an oily odourless solvent which is commonly used in paints, deodorants, hairsprays, polishes and many other cleaning materials.
7. Butanol, limonene and nonanal are common compounds found in cleaning products.
8. 2-ethyl hexanol is in the production of plasticisers, coatings, adhesives and other specialty chemicals. The largest market for 2-ethyl hexanol has been the plasticisers dioctyl phthalate which is used in the manufacture polyvinyl chloride products.
9. Xylene compounds can come from rubber and plastics, in solvents, and in paints and lacquers.
10. Arcosolv is used in adhesives and paints.
11. The level of toluene was higher than other rooms and this sample and also had butan-2-one and butyl acetate, these could have come from the use of permanent ink pens.
12. In summary, the compounds detected in the atmosphere and the concentration levels were not uncommon. The recent refurbishments that have occurred could have contributed to a number of the compounds detected.



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Approved Signatory:

Chemist



Glasgow Scientific Services

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North Lanarkshire Council
Business Regulation Service
Fleming House
Tryst Road
Cumbernauld
G67 1DZ

Technical Enquiries : Mass Spec
Phone 0141 276 0628
[REDACTED] Glasgow.Gov.uk
Fax 0141 276 0669

Sample Details :

Client's Description: Passive Air Monitoring
Date received: 10/03/2020
Sampled by: [REDACTED]
Sample Type: Passive Tenax air sample for VOCs
Site: St Ambrose & Buchanan High
Sample Point: Outside on downpipe at entrance doors across from carpark
Date/Time on: 17/01/2020 at 16:40
Date/Time off: 06/03/2020 at 15:15
Tenax I.D. MI056748

Test Note: Tenax adsorption tubes are used to absorb volatile and semi volatile organic compounds in the atmosphere and do not distinguish between the background odours in a room (e.g. cleaning and personal hygiene products) and the complaint odours.

TVOC - Total Volatile Organic Contamination, is the Total of VOC detected in the sample tube

Test Details :

| <u>Determination</u> | <u>Result</u> | <u>Units</u> |
|-----------------------------|----------------|-------------------|
| Sample collected by | Karen Macvicar | |
| Total VOC ng | 533 | ng |
| Total VOC mg/m ³ | 0.008 | mg/m ³ |
| Benzene | 0.0006 | |
| Toluene | 0.0009 | |
| m- & p- xylene | 0.0005 | |

Opinions/Comments:

1. The total volatile organic contamination (TVOC) was 0.008 mg/m³. This TVOC was lower than the expected range 0.01 - 0.1 mg/m³ for rural outdoor atmospheres.
2. Benzene level of 0.0006 mg/m³ was considerably lower than The Expert Panel Air Quality Standards (EPAQS) in Table D4 of document IPPC H1 Horizontal Guidance Note, which states that the annual mean for benzene is 0.005 mg/m³. Benzene, for example is a combustion product of coal, wood fuels and car exhausts.
3. Toluene was detected at 0.0009 mg/m³ and xylene at 0.0005 mg/m³, traffic and industrial activities are primary

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Test Details Continued :

| <u>Determination</u> | <u>Result</u> | <u>Units</u> |
|----------------------|---------------|--------------|
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sources contributing to outdoor levels of these compounds.

Approved Signatory:

Chemist



Glasgow Scientific Services

64 Everard Drive, Springburn, Glasgow, G21 1XG

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North Lanarkshire Council
Business Regulation Service
Fleming House
Tryst Road
Cumbernauld
G67 1DZ

Technical Enquiries : Mass Spec
Phone 0141 276 0628
[REDACTED]@Glasgow.Gov.uk
Fax 0141 276 0669

Sample Details :

Client's Description: Passive Air Monitoring
Date received: 10/03/2020
Sampled by: [REDACTED]
Sample Type: Passive Tenax air sample for VOCs
Site: Buchanan High School
Sample Point: English Base G099A
Date/Time on: 17/01/2020 at 16:20
Date/Time off: 06/03/2020 at 15:45
Tenax I.D. A93361

Test Note: Tenax adsorption tubes are used to absorb volatile and semi volatile organic compounds in the atmosphere and do not distinguish between the background odours in a room (e.g. cleaning and personal hygiene products) and the complaint odours.

TVOC - Total Volatile Organic Contamination, is the Total of VOC detected in the sample tube

Test Details :

| <u>Determination</u> | <u>Result</u> | <u>Units</u> |
|-------------------------------|----------------|-------------------|
| Sample collected by | Karen Macvicar | |
| Total VOC ng | 2470 | ng |
| Total VOC mg/m ³ | 0.035 | mg/m ³ |
| Benzene | 0.0002 | |
| Toluene | 0.0036 | |
| m- & p- xylene | 0.0008 | |
| 2-butoxy ethanol | 0.0032 | mg/m ³ |
| Arcosolv | 0.0012 | mg/m ³ |
| Limonene | 0.001 | |
| 2-ethyl hexanol | 0.0009 | mg/m ³ |
| Decamethyl cyclopentasiloxane | 0.0018 | mg/m ³ |
| Nonanal | 0.0013 | |
| Menthol | 0.0002 | mg/m ³ |

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Test Details Continued :

| <u>Determination</u> | <u>Result</u> | <u>Units</u> |
|----------------------|---------------|--------------|
|----------------------|---------------|--------------|

Opinions/Comments:

1. The total volatile organic contamination (TVOC) was 0.035 mg/m³. This TVOC was within the range we expect for indoor air.
2. The following comments are related to the total volatile organic contamination (TVOC). The statement below is from Molhave: "Volatile Organic Compounds, Indoor Air Quality and Health" states the health effects may be experienced at the following concentrations of VOCs in indoor air. Odour complaints, irritation and discomfort can occur between 0.2 - 3.0 mg/m³.

The TVOC level detected is below the lower range stated above and would not be expected to cause a complaint.
3. Compounds detected are not unusual for a school environment where there has been recent refurbishment and painting.
4. Benzene level of 0.0002 mg/m³ was considerably lower than The Expert Panel Air Quality Standards (EPAQS) in Table D4 of document IPPC H1 Horizontal Guidance Note, which states that the annual mean for benzene is 0.005 mg/m³. Benzene, for example is a combustion product of coal, wood fuels and car exhausts.
5. Toluene is a common solvent, found in paints, paint thinners, silicone sealants, rubber, adhesives (glues), lacquers and disinfectants.
6. Decamethyl cyclopentasiloxane DMPS, is an oily odourless solvent which is commonly used in paints, deodorants, hairsprays, polishes and many other cleaning materials.
7. Limonene and nonanal are common compounds found in cleaning products.
8. 2-ethyl hexanol is in the production of plasticisers, coatings, adhesives and other specialty chemicals. The largest market for 2-ethyl hexanol has been the plasticisers dioctyl phthalate which is used in the manufacture polyvinyl chloride products.
9. Xylene compounds can come from rubber and plastics, in solvents, and in paints and lacquers.
10. Arcosolv is used in adhesives and paints.
11. In summary, the compounds detected in the atmosphere and the concentration levels were not uncommon. The recent refurbishments that have occurred could have contributed to a number of the compounds detected.

Approved Signatory:

Chemist

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Glasgow Scientific Services

64 Everard Drive, Springburn, Glasgow, G21 1XG

Test Report

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Report Date: 23 March 2020

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North Lanarkshire Council
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Fleming House
Tryst Road
Cumbernauld
G67 1DZ

Technical Enquiries : Mass Spec
Phone 0141 276 0628
[REDACTED]@Glasgow.Gov.uk
Fax 0141 276 0669

Sample Details :

Client's Description: Air Monitoring
Date received: 10/03/2020
Sampled by: [REDACTED]
Sample Type: Passive Tenax air sample for VOCs
Site: St Ambrose High
Sample Point: 1st floor outside Staff Room in Social Area
Date/Time on: 17/01/2020 at 15:45
Date/Time off: 06/03/2020 at 15:45
Tenax I.D. MI056735

Test Note: Tenax adsorption tubes are used to absorb volatile and semi volatile organic compounds in the atmosphere and do not distinguish between the background odours in a room (e.g. cleaning and personal hygiene products) and the complaint odours.

TVOC - Total Volatile Organic Contamination, is the Total of VOC detected in the sample tube

Test Details :

| <u>Determination</u> | <u>Result</u> | <u>Units</u> |
|-------------------------------|----------------|-------------------|
| Sample collected by | Karen Macvicar | |
| Total VOC ng | 5353 | ng |
| Total VOC mg/m ³ | 0.076 | mg/m ³ |
| Benzene | 0.0003 | |
| Toluene | 0.0028 | |
| m- & p- xylene | 0.0013 | |
| Arcosolv | 0.0049 | mg/m ³ |
| Limonene | 0.0025 | |
| 2-ethyl hexanol | 0.0024 | mg/m ³ |
| Decamethyl cyclopentasiloxane | 0.0057 | mg/m ³ |
| Nonanal | 0.0041 | |
| Menthol | 0.0009 | mg/m ³ |

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Test Details Continued :

| <u>Determination</u> | <u>Result</u> | <u>Units</u> |
|----------------------|---------------|--------------|
|----------------------|---------------|--------------|

Opinions/Comments:

1. The total volatile organic contamination (TVOC) was 0.076 mg/m³. This TVOC was within the range we expect for indoor air.

2. The following comments are related to the total volatile organic contamination (TVOC). The statement below is from Molhave: "Volatile Organic Compounds, Indoor Air Quality and Health" states the health effects may be experienced at the following concentrations of VOCs in indoor air. Odour complaints, irritation and discomfort can occur between 0.2 - 3.0 mg/m³.

The TVOC level detected is below the lower range stated above and would not be expected to cause a complaint.

3. Compounds detected are not unusual for a school environment where there has been recent refurbishment and painting.

4. Benzene level of 0.0003 mg/m³ was considerably lower than The Expert Panel Air Quality Standards (EPAQS) in Table D4 of document IPPC H1 Horizontal Guidance Note, which states that the annual mean for benzene is 0.005 mg/m³. Benzene, for example is a combustion product of coal, wood fuels and car exhausts.

5. Toluene is a common solvent, found in paints, paint thinners, silicone sealants, rubber, adhesives (glues), lacquers and disinfectants.

6. Decamethyl cyclopentasiloxane DMPS, is an oily odourless solvent which is commonly used in paints, deodorants, hairsprays, polishes and many other cleaning materials.

7. Limonene and nonanal are common compounds found in cleaning products.

8. 2-ethyl hexanol is in the production of plasticisers, coatings, adhesives and other specialty chemicals. The largest market for 2-ethyl hexanol has been the plasticisers dioctyl phthalate which is used in the manufacture polyvinyl chloride products.

9. Xylene compounds can come from rubber and plastics, in solvents, and in paints and lacquers.

10. Arcosolv is used in adhesives and paints.

11. In summary, the compounds detected in the atmosphere and the concentration levels were not uncommon. The recent refurbishments that have occurred could have contributed to a number of the compounds detected.

Approved Signatory:

Chemist