

Annex D5

Certificates of the Qualified Odour Panelist



Certificate for a Qualified Odour Panellist

This is to certify that

LAU MEI TUNG

has participated in Ten (10) sets of individual N-Butanol Screening Test
during 25 October 2021 - 03 November 2021

with Individual Threshold: 41 ppb/v

and

fulfill the Requirement of the European Standard Method of Air Quality -
Determination of Odour Concentration by Dynamic Olfactometry (EN13725:2003) -

The Requirement of the Odour Threshold of n-Butanol in Nitrogen Gas in the Range of 20 - 80 ppb/v
with at least 10 sets of individual threshold estimates and standard deviation less than 2.3

03 November 2021

Issue Date

03 November 2022

Valid Until


Fung Lim Chee, Richard



Certificate for a Qualified Odour Panellist

This is to certify that

WONG KA HEI

has participated in Ten (10) sets of individual N-Butanol Screening Test
during 25 October 2021 - 03 November 2021

with Individual Threshold: 40 ppb/v

and

fulfill the Requirement of the European Standard Method of Air Quality –
Determination of Odour Concentration by Dynamic Olfactometry (EN13725:2003) –

The Requirement of the Odour Threshold of n-Butanol in Nitrogen Gas in the Range of 20 – 80 ppb/v
with at least 10 sets of individual threshold estimates and standard deviation less than 2.3

03 November 2021

Issue Date

03 November 2022

Valid Until

Fung Lim Chee, Richard



Certificate for a Qualified Odour Panellist

This is to certify that

WONG HO YU

has participated in Ten (10) sets of individual N-Butanol Screening Test
during 25 October 2021 - 03 November 2021

with Individual Threshold: 56 ppb/v

and

fulfill the Requirement of the European Standard Method of Air Quality -
Determination of Odour Concentration by Dynamic Olfactometry (EN13725:2003) -

The Requirement of the Odour Threshold of n-Butanol in Nitrogen Gas in the Range of 20 - 80 ppb/v
with at least 10 sets of individual threshold estimates and standard deviation less than 2.3

03 November 2021

Issue Date

03 November 2022

Valid Until


Fung Lim Chee, Richard



TESTING

Certificate for a Qualified Odour Panel Member

Serial No. : P-044

Odour Panel Member : Wong Wan Ning

Date of Screening Test : 12 Nov 2021
15 Nov 2021
17 Nov 2021

Valid Until : 16 May 2022

This is to certify that Miss Wong Wan Ning participated in a set of n-butanol screening tests in our laboratory between 12 Nov 2021 and 17 Nov 2021.

The odour threshold test results of n-butanol in nitrogen gas was found to be in the range of 20 – 80 ppb/v and a standard deviation of $R < 2.3$, which comply with the requirement of the European Standard Method of Air Quality – Determination of Odour Concentration by Dynamic Olfactometry (EN 13725).

The participant is Approved and Authorized as Qualified Odour Panel Member for odour patrol and olfactometry analysis.

Signed for and on behalf of
CMA Industrial Development Foundation Limited

Wu Chun Fai
Assistant Manager – Environmental Division

Date: 17 Nov 2021

Certificate for a Qualified Odour Panel Member

Serial No. : P-043

Odour Panel Member : Chan Kam Hon

Date of Screening Test : 12 Nov 2021
15 Nov 2021
17 Nov 2021

Valid Until : 16 May 2022

This is to certify that Mr. Chan Kam Hon participated in a set of n-butanol screening tests in our laboratory between 12 Nov 2021 and 17 Nov 2021.

The odour threshold test results of n-butanol in nitrogen gas was found to be in the range of 20 – 80 ppb/v and a standard deviation of $R < 2.3$, which comply with the requirement of the European Standard Method of Air Quality – Determination of Odour Concentration by Dynamic Olfactometry (EN 13725).

The participant is Approved and Authorized as Qualified Odour Panel Member for odour patrol and olfactometry analysis.

Signed for and on behalf of
CMA Industrial Development Foundation Limited



Wu Chun Fai
Assistant Manager – Environmental Division

Date: 17 Nov 2021

Certificate for a Qualified Odour Panel Member

Serial No. : P-042

Odour Panel Member : Ng Tung Ching

Date of Screening Test : 12 Nov 2021
15 Nov 2021
17 Nov 2021

Valid Until : 16 May 2022

This is to certify that Mr. Ng Tung Ching participated in a set of n-butanol screening tests in our laboratory between 12 Nov 2021 and 17 Nov 2021.

The odour threshold test results of n-butanol in nitrogen gas was found to be in the range of 20 – 80 ppb/v and a standard deviation of $R < 2.3$, which comply with the requirement of the European Standard Method of Air Quality – Determination of Odour Concentration by Dynamic Olfactometry (EN 13725).

The participant is Approved and Authorized as Qualified Odour Panel Member for odour patrol and olfactometry analysis.

Signed for and on behalf of
CMA Industrial Development Foundation Limited



Wu Chun Fai
Assistant Manager – Environmental Division

Date: 17 Nov 2021

Certificate for a Qualified Odour Panel Member

Serial No. : P-045

Odour Panel Member : **Cheung Ma Alfonso Gerardo**

Date of Screening Test : **10 Dec 2021**
13 Dec 2021
16 Dec 2021

Valid Until : **15 Jun 2022**

This is to certify that Mr Cheung participated in a set of n-butanol screening tests in our laboratory between 10 Dec 2021 and 16 Dec 2021.

The odour threshold test results of n-butnaol in nitrogen gas was found to be in the range of 20 – 80 ppb/v and a standard deviation of $R < 2.3$, which comply with the requirement of the European Standard Method of Air Quality – Determination of Odour Concentration by Dynamic Olfactometry (EN 13725).

The participant is Approved and Authorized as Qualified Odour Panel Member for odour patrol and olfactometry analysis.

Signed for and on behalf of
CMA Industrial Development Foundation Limited



Wu Chun Fai
Assistant Manager – Environmental Division

Date: 16 Dec 2021

Certificate for a Qualified Odour Panel Member

Serial No. : P-037

Odour Panel Member : Chan Po

Date of Screening Test : 10 Dec 2021
13 Dec 2021
16 Dec 2021

Valid Until : 15 Jun 2022

This is to certify that Mr. Chan participated in a set of n-butanol screening tests in our laboratory between 10 Dec 2021 and 16 Dec 2021.

The odour threshold test results of n-butanol in nitrogen gas was found to be in the range of 20 – 80 ppb/v and a standard deviation of $R < 2.3$, which comply with the requirement of the European Standard Method of Air Quality – Determination of Odour Concentration by Dynamic Olfactometry (EN 13725).

The participant is Approved and Authorized as Qualified Odour Panel Member for odour patrol and olfactometry analysis.

Signed for and on behalf of
CMA Industrial Development Foundation Limited



Wu Chun Fai
Assistant Manager – Environmental Division

Date: 16 Dec 2021



Certificate for a Qualified Odour Panellist

This is to certify that

Poon Kwong Lun

has participated in Ten (10) sets of individual n-Butanol Screening Tests

during 12 June 2020 to 26 July 2021

with Individual Threshold: 36 ppb/v; Standard Deviation: 1.14

and

fulfil the Requirement of the European Standard Method of Air Quality –
Determination of Odour Concentration by Dynamic Olfactometry (EN13725)

The Requirement of the Odour Threshold of n-Butanol in Nitrogen Gas in the Range of 20 – 80 ppb/v
with at least 10 sets of Individual threshold estimates and standard deviation less than 2.3

26 July 2021

Issue Date

26 July 2022

Valid Until

Fung Lim Chee, Richard



Certificate for a Qualified Odour Panellist

This is to certify that

Anthony Kwan

has participated in Ten (10) sets of individual n-Butanol Screening Tests

during 30 April 2021 to 23 July 2021

with Individual Threshold: 44 ppb/v; Standard Deviation: 1.49

and

fulfil the Requirement of the European Standard Method of Air Quality –
Determination of Odour Concentration by Dynamic Olfactometry (EN13725)

The Requirement of the Odour Threshold of n-Butanol in Nitrogen Gas in the Range of 20 – 80 ppb/v
with at least 10 sets of Individual threshold estimates and standard deviation less than 2.3

23 July 2021

Issue Date

23 July 2022

Valid Until

Fung Lim Chee, Richard



Certificate for a Qualified Odour Panellist

This is to certify that

Wong Hei Wang

has participated in Ten (10) sets of individual n-Butanol Screening Tests

during 3 November 2020 to 23 July 2021

with Individual Threshold: 50 ppb/v; Standard Deviation: 1.32

and

fulfil the Requirement of the European Standard Method of Air Quality –
Determination of Odour Concentration by Dynamic Olfactometry (EN13725)

The Requirement of the Odour Threshold of n-Butanol in Nitrogen Gas in the Range of 20 – 80 ppb/v
with at least 10 sets of Individual threshold estimates and standard deviation less than 2.3

23 July 2021

Issue Date

23 July 2022

Valid Until

Fung Lim Chee, Richard



Certificate for a Qualified Odour Panellist

This is to certify that
Ho Tsz Kin
has participated in Ten (10) sets of individual n-Butanol Screening Tests
during 30 April 2021 to 23 July 2021
with Individual Threshold: 40 ppb/v; Standard Deviation: 1.29

and

fulfil the Requirement of the European Standard Method of Air Quality –
Determination of Odour Concentration by Dynamic Olfactometry (EN13725)

The Requirement of the Odour Threshold of n-Butanol in Nitrogen Gas in the Range of 20 – 80 ppb/v
with at least 10 sets of Individual threshold estimates and standard deviation less than 2.3

23 July 2021
Issue Date

23 July 2022
Valid Until

Fung Lim Chee, Richard



Certificate for a Qualified Odour Panellist

This is to certify that

Choi Wai Yiu

has participated in Ten (10) sets of individual n-Butanol Screening Tests

during 08 April 2021 to 14 April 2021

with Individual Threshold: 46 ppb/v; Standard Deviation: 1.36

and

fulfil the Requirement of the European Standard Method of Air Quality –
Determination of Odour Concentration by Dynamic Olfactometry (EN13725)

The Requirement of the Odour Threshold of n-Butanol in Nitrogen Gas in the Range of 20 – 80 ppb/v
with at least 10 sets of Individual threshold estimates and standard deviation less than 2.3

14 April 2021

Issue Date

14 April 2022

Valid Until

Fung Lim Chee, Richard



Certificate for a Qualified Odour Panellist

This is to certify that

Chan Wai Hung

has participated in Ten (10) sets of individual n-Butanol Screening Tests

during 19 June 2020 to 17 July 2021

with Individual Threshold: 47 ppb/v; Standard Deviation: 1.22

and

fulfil the Requirement of the European Standard Method of Air Quality –
Determination of Odour Concentration by Dynamic Olfactometry (EN13725)

The Requirement of the Odour Threshold of n-Butanol in Nitrogen Gas in the Range of 20 – 80 ppb/v
with at least 10 sets of Individual threshold estimates and standard deviation less than 2.3

17 July 2021

Issue Date

17 July 2022

Valid Until

Fung Lim Chee, Richard



Certificate for a Qualified Odour Panellist

This is to certify that

Cheung Wai Hung

has participated in Ten (10) sets of individual n-Butanol Screening Tests

during 23 September 2020 to 17 July 2021

with Individual Threshold: 43 ppb/v; Standard Deviation: 1.29

and

fulfil the Requirement of the European Standard Method of Air Quality –
Determination of Odour Concentration by Dynamic Olfactometry (EN13725)

The Requirement of the Odour Threshold of n-Butanol in Nitrogen Gas in the Range of 20 – 80 ppb/v
with at least 10 sets of Individual threshold estimates and standard deviation less than 2.3

17 July 2021

Issue Date

17 July 2022

Valid Until

Fung Lim Chee, Richard