

REPORT OF EQUIPMENT CALIBRATION

INSTRUMENT DESCRIPTION

It is certified that the item under calibration has been calibrated by corresponding calibrated High Volume Sampler and the filter paper is weighted by HOKLAS laboratory.

Instrument: Handheld TSP meter

Brand Name: TSI
Model No.: AM520
Serial No.: 5201735004
Date of Calibration: 04 October, 2024
Date of Next Calibration: 04 October, 2025

ISSUING ORGANISATION

Address

Enovative Environmental Service Limited

Flat 23, 6/F, Block C, Goldfield Industrial Centre

1 Sui Wo Road Shatin, N.T. Hong Kong **Phone:** 852-2242 1020

Fax: 852-3691 9240 Email: info@eno.com.hk

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Mr Wong Siu Ho, Thomas

Manager

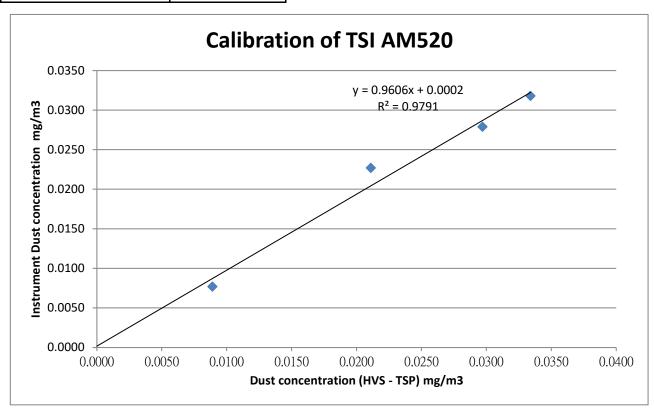


Brand Name: TSI
Model No.: AM520
Serial No.: 5201735004
HVS No.: A12-TSP-102
Date of Calibration: 04 October, 2024
Date of next Calibration: 04 October, 2025

Calibration Record

| HVS - TSP (mg/m3) | 0.0334 | 0.0297 | 0.0089 | 0.0211 |
|-------------------|--------|--------|--------|--------|
| TSI AM520 (mg/m3) | 0.0318 | 0.0279 | 0.0077 | 0.0227 |

| K Factor : | 0.9606 |
|---------------------------|--------|
| Correlation Coefficient : | 0.9791 |



*** Filter paper being used in the calibration : 209681, 209682, 209683, 209684 Those filter papers are weighted by HOKLAS laboratory (ALS Technichem (HK) Pty Ltd.)

Mr Wong Siu Ho, Thomas Manager

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REPORT OF EQUIPMENT CALIBRATION

INSTRUMENT DESCRIPTION

It is certified that the item under calibration has been calibrated by corresponding calibrated High Volume Sampler and the filter paper is weighted by HOKLAS laboratory.

Handheld TSP meter Instrument:

Brand Name: AM520 Model No.: Serial No.: 5201735006 Date of Calibration: 04 October, 2024 Date of Next Calibration: 04 October, 2025

ISSUING ORGANISATION

Address

Enovative Environmental Service Limited

Flat 23, 6/F, Block C, Goldfield Industrial Centre

1 Sui Wo Road Shatin, N.T. Hong Kong

Phone: 852-2242 1020 Fax: 852-3691 9240

Email:

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Manager

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homas

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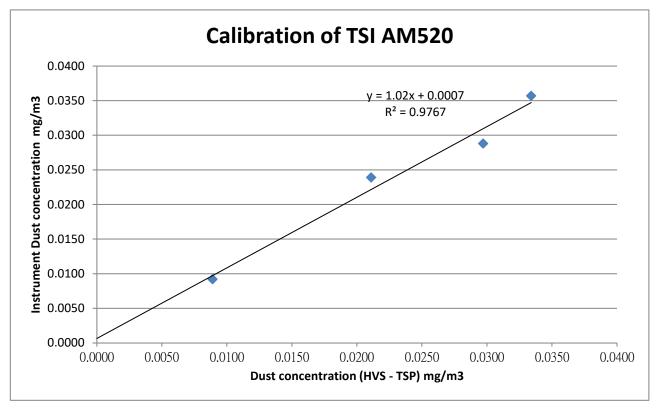


Brand Name: TSI
Model No.: AM520
Serial No.: 5201735006
HVS No.: A12-TSP-102
Date of Calibration: 04 October, 2024
Date of next Calibration: 04 October, 2025

Calibration Record

| HVS - TSP (mg/m3) | 0.0334 | 0.0297 | 0.0089 | 0.0211 |
|-------------------|--------|--------|--------|--------|
| TSI AM520 (mg/m3) | 0.0357 | 0.0288 | 0.0092 | 0.0239 |

| K Factor : | 1.02 | |
|---------------------------|--------|--|
| Correlation Coefficient : | 0.9767 | |



*** Filter paper being used in the calibration : 209681, 209682, 209683, 209684 Those filter papers are weighted by HOKLAS laboratory (ALS Technichem (HK) Pty Ltd.)

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Mr Wong Siu Ho, Thomas Manager



REPORT OF EQUIPMENT CALIBRATION

INSTRUMENT DESCRIPTION

It is certified that the item under calibration has been calibrated by corresponding calibrated High Volume Sampler and the filter paper is weighted by HOKLAS laboratory.

Instrument: Handheld TSP meter

Brand Name: TSI
Model No.: AM520
Serial No.: 5202345003
Date of Calibration: 04 October, 2024
Date of Next Calibration: 04 October, 2025

ISSUING ORGANISATION

Address

Enovative Environmental Service Limited

Phone: 852-2242 1020

Flat 23, 6/F, Block C, Goldfield Industrial Centre
1 Sui Wo Road
Shatin, N.T.
Hong Kong

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Mr Wong Siu Ho, Thomas

homas

Mr Wong Siu Ho, Thomas Manager

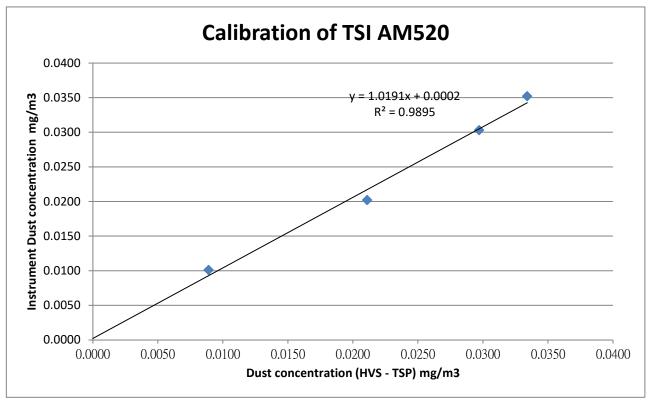


Brand Name: TSI
Model No.: AM520
Serial No.: 5202345003
HVS No.: A12-TSP-102
Date of Calibration: 04 October, 2024
Date of next Calibration: 04 October, 2025

Calibration Record

| HVS - TSP (mg/m3) | 0.0334 | 0.0297 | 0.0089 | 0.0211 |
|-------------------|--------|--------|--------|--------|
| TSI AM520 (mg/m3) | 0.0352 | 0.0303 | 0.0101 | 0.0202 |

| K Factor : | 1.0191 |
|---------------------------|--------|
| Correlation Coefficient : | 0.9895 |



*** Filter paper being used in the calibration : 209681, 209682, 209683, 209684 Those filter papers are weighted by HOKLAS laboratory (ALS Technichem (HK) Pty Ltd.)

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Mr Wong Siu Ho, Thomas Manager

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ENVIROTECH SERVICES CO.

High-Volume TSP Sampler 5-Point Calibration Record

Location : AMS5(Ma Wan Chung Village)

Calibrated by : P.F.Yeung
Date : 30/04/2025

Sampler

Model : TE-5170 Serial Number : S/N3640

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454

Next Calibration Date : 02 December 2025

 Slope (m)
 : 2.08315

 Intercept (b)
 : -0.04938

 Correlation Coefficient(r)
 : 0.99985

Standard Condition

Pstd (hpa) : 1013 Tstd (K) : 298.18

Calibration Condition

Pa (hpa) : 1013.3 Ta(K) : 301.2

| Resi | istance Plate | dH [green liquid] | Z | X=Qstd | IC | Y |
|------|---------------|-------------------|-------|-------------------|----|-------|
| | | (inch water) | | (cubic meter/min) | | |
| 1 | 18 holes | 10.1 | 3.162 | 1.542 | 58 | 57.71 |
| 2 | 13 holes | 8.2 | 2.849 | 1.391 | 53 | 52.73 |
| 3 | 10 holes | 5.9 | 2.417 | 1.184 | 48 | 47.76 |
| 4 | 7 holes | 3.8 | 1.940 | 0.955 | 42 | 41.79 |
| 5 | 5 holes | 2.3 | 1.509 | 0.748 | 38 | 37.81 |

Notes:Z=SQRT{dH(Pa/Pstd)(Tstd/Ta)}, X=Z/m-b, Y(Corrected Flow)=IC*{SQRT(Pa/Pstd)(Tstd/Ta)}

Sampler Calibration Relationship

Slope(m):24.972 Intercept(b):18.492 Correlation Coefficient(r): 0.9970

Checked by: Magnum Fan Date: 05/05/2025

TSP High Volume Sampler Calibration

SITE

Location: AMS6 Dragon Air Building Date: February 24, 2025

Sampler: TE-5170 Tech: Sam Wong

CONDITIONS 40.35 Corrected Pressure (mm Hg): 1025 Barometric Pressure (in Hg): Temperature (deg F): Temperature (deg K): 66 292 Average Press. (in Hg): 40.35 Corrected Average (mm Hg): 1025 Average Temp. (deg F): Average Temp. (deg K): 292 66

CALIBRATION ORIFICE

Make: Tisch Environmental, Inc Slope: 2.12695

Model: TE-5025A Intercept: -0.05604

Serial # 4285 Date Certified: August 19, 2025

| | CALIBRATION | | | | | | |
|----------|-------------|----------|---------|-------------|--------------------|-------|--|
| Plate or | H20 | Qstd | I | IC | LINEAR | | |
| Test # | (in) | (m3/min) | (chart) | (corrected) | REGRESSION | | |
| 1 | 12.20 | 1.953 | 52.0 | 61.01 | Slope: 29 | .6488 | |
| 2 | 10.00 | 1.771 | 48.0 | 56.32 | Intercept: 3. | 3412 | |
| 3 | 6.80 | 1.465 | 40.0 | 46.93 | Corr. Coeff: 0. | 9979 | |
| 4 | 5.00 | 1.260 | 34.0 | 39.89 | | | |
| 5 | 3.00 | 0.982 | 28.0 | 32.85 | | | |
| | | | | | # of Observations: | 5 | |

CALCULATIONS

Qstd = 1/m[Sqrt(H2O(Pa/Pstd)(Tstd/Ta))-b]

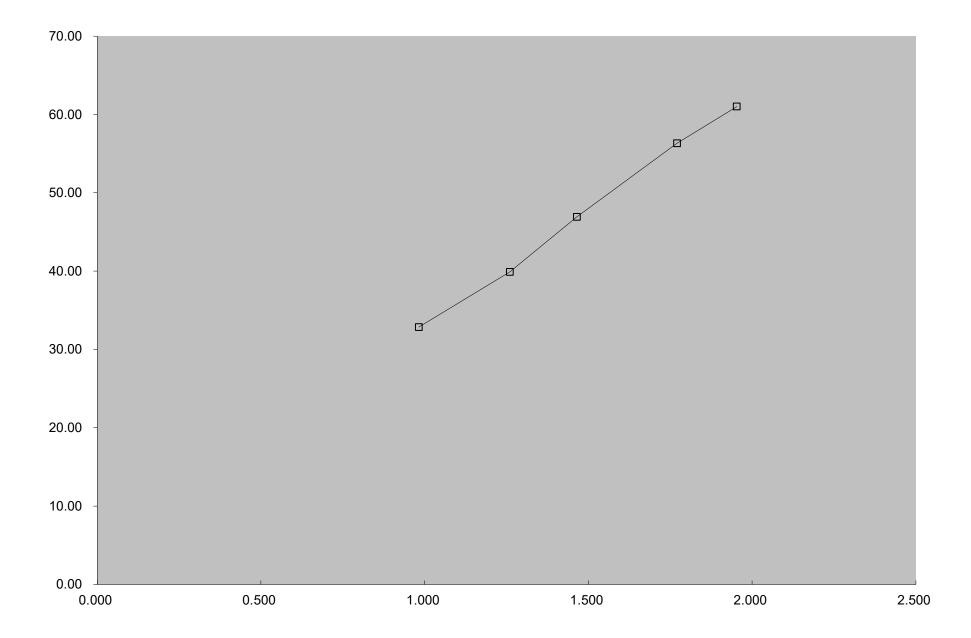
IC = I[Sqrt(Pa/Pstd)(Tstd/Ta)]

Pa = actual pressure (mm Hg) Tstd = 298 deg K

Pstd = 760 mm Hg

For subsequent calculation of sampler flow:

1/m((I) [Sqrt(298/Tav)(Pav/760)]-b)



TSP High Volume Sampler Calibration

SITE

Location: AMS6 Dragon Air Building

Date: May 20, 2025

Sampler: TE-5170

Tech: Sam Wong

CONDITIONS 39.75 1010 Barometric Pressure (in Hg): Corrected Pressure (mm Hg): Temperature (deg F): 85 Temperature (deg K): 302 Average Press. (in Hg): 39.75 Corrected Average (mm Hg): 1010 85 302 Average Temp. (deg F): Average Temp. (deg K):

CALIBRATION ORIFICE Make: Tisch Environmental, Inc Slope: 2.12695 Model: TE-5025A Intercept: -0.05604 Serial # 4285 Date Certified: August 19, 2025

| | CALIBRATION | | | | | |
|----------|-------------|----------|---------|-------------|--------------------|-------|
| Plate or | H20 | Qstd | I | IC | LINEAR | |
| Test # | (in) | (m3/min) | (chart) | (corrected) | REGRESSION | |
| 1 | 12.20 | 1.905 | 52.0 | 59.49 | Slope: 29 | .6488 |
| 2 | 10.00 | 1.727 | 48.0 | 54.92 | Intercept: 3. | 2384 |
| 3 | 6.80 | 1.429 | 40.0 | 45.76 | Corr. Coeff: 0. | 9979 |
| 4 | 5.00 | 1.229 | 34.0 | 38.90 | | |
| 5 | 3.00 | 0.958 | 28.0 | 32.03 | | |
| | | | | | # of Observations: | 5 |

CALCULATIONS

```
Qstd = 1/m[Sqrt(H2O(Pa/Pstd)(Tstd/Ta))-b]
```

IC = I[Sqrt(Pa/Pstd)(Tstd/Ta)]

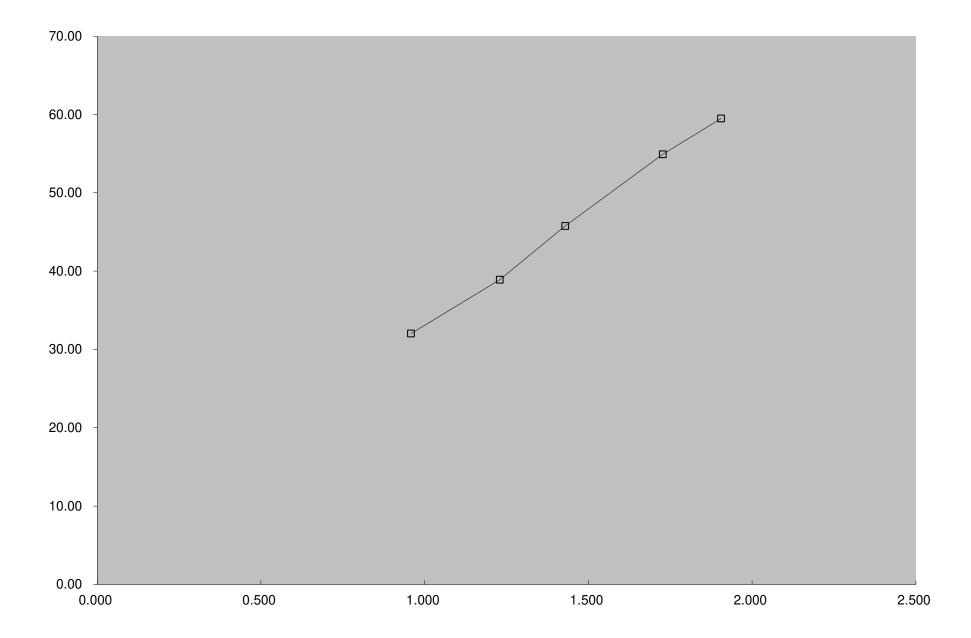
 $\begin{array}{lll} b & = \mbox{ calibrator intercept} & & \mbox{ Tav = daily average temperature} \\ \mbox{ Ta = actual temperature (deg K)} & & \mbox{ Pav = daily average pressure} \end{array}$

Pa = actual pressure (mm Hg)

Tstd = 298 deg KPstd = 760 mm Hg

For subsequent calculation of sampler flow:

1/m((I)[Sqrt(298/Tav)(Pav/760)]-b)





Certificate No. 411654

1 of 3 Pages Page

Customer: Enovative Environmental Service Limited

Address: Room 23, 6/F, Block C, Goldfield Industrial Centre, 1 Siu Wo Road, Shatin, N.T.

Order No.: Q44338

Date of receipt

8-Nov-24

Item Tested

Description: Sound Level Meter

Manufacturer: RION

I.D.

: N15-RION-008

Model

: NL-52

Serial No.

: 01143485

Test Conditions

Date of Test: 18-Nov-24

Supply Voltage : --

Ambient Temperature:

 $(23 \pm 3)^{\circ}C$

Relative Humidity: (50 ± 25) %

Test Specifications

Calibration check.

The UUT has an indication that it conforms to IEC 61672-1:2013 Class 1

Ref. Document/Procedure: Z01, IEC 61672-1:2013.

Test Results

The results are shown in the attached page(s).

Main Test equipment used:

Equipment No. Description

Cert. No.

Traceable to

S240

Sound Level Calibrator

405380

NIM-PRC & SCL-HKSAR

S017

Multi-Function Generator

C211339

SCL-HKSAR

The values given in this Calibration Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Hong Kong Calibration Ltd. shall not be liable for any loss or damage resulting from the use of the equipment.

The test equipment used for calibration are traceable to International System of Units (SI), or by reference to a natural constant. The test results apply to the above Unit-Under-Test only

Calibrated by :

Approved by:

18-Nov-24

Date:

This Certificate is issued by:

Hong Kong Calibration Ltd.

Unit 8B, 24/F., Well Fung Industrial Centre, No. 58-76, Ta Chuen Ping Street, Kwai Chung, NT, Hong Kong

Tel: 2425 8801 Fax: 2425 8646



Certificate No. 411654

Page 2 of 3 Pages

Results:

Acoustical signal test

1. Indication at the Calibration Check Frequency (1kHz)

| UUT | Setting | Applied Value (dB) | UUT Reading (dB) |
|---|----------|--------------------|------------------|
| Weight. | Response | | After Adjust.* |
| A | F | 94.0 | 93.8 |
| 1 | S | | 93.8 |
| С | F | | 93.8 |
| Z | | | 93.8 |

^{*}Adjustment using the customer's sound calibrator was performed immediately before test.

Tolerance : \pm 1.0 dB Uncertainty : \pm 0.1 dB

2. Self-generated noise (Microphone Installed, most sensitive range): 16.6 dBA (Mfr's Spec. ≤ 17 dBA)

Electrical signal tests

3. Frequency weightings (A,F)

| Freq | uency | Attenuation (dB) | IEC 61672-1 Class 1 Spec. |
|------|-------|------------------|---|
| 31.5 | Hz | -39.5 | - 39.4 dB, ± 1.5 dB |
| 63 | Hz | -26.1 | - 26.2 dB, ± 1.0 dB |
| 125 | Hz | -16.1 | - 16.1 dB, ± 1.0 dB |
| 250 | Hz | -8.6 | - 8.6 dB, ± 1.0 dB |
| 500 | Hz | -3.2 | - 3.2 dB, ± 1.0 dB |
| 1 | kHz | 0.0 (Ref) | 0 dB, ± 0.7 dB |
| 2 | kHz | +1.2 | + 1.2 dB, ± 1.0 dB |
| 4 | kHz | +1.3 | + 1.0 dB, ± 1.0 dB |
| 8 | kHz | -1.0 | - 1.1 dB , + $1.5 \text{ dB} \sim -2.5 \text{ dB}$ |
| 16 | kHz | -2.5 | - 6.6 dB , + $2.5 \text{ dB} \sim -16.0 \text{ dB}$ |

Uncertainty: $\pm 0.1 \text{ dB}$



Certificate No. 411654

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4. Frequency & Time weightings

4.1 Frequency Weighting (1kHz)

| UUT | Setting | | | |
|--------------|---------------|-------------------|--------------|---------------|
| Time Weight. | Freq. Weight. | Anticipated Value | UUT | IEC 61672-1 |
| | | (dB) | Reading (dB) | Class 1 Spec. |
| F | A | 94.0 | 94.0 (Ref.) | |
| | C | | 94.0 | ± 0.2 dB |
| | Z | | 94.0 | |

Uncertainty: ± 0.1 dB

4.2 Time Weighting (1kHz)

| 1.2 111110 110 | agitting (TRITZ) | | | |
|----------------|------------------|-------------------|--------------|---------------|
| UUT Setting | | * | | |
| Time Weight. | Freq. Weight. | Anticipated Value | UUT | IEC 61672-1 |
| | | (dB) | Reading (dB) | Class 1 Spec. |
| F | A | 94.0 | 94.0 (Ref.) | |
| S | | | 94.0 | ± 0.1 dB |
| eq | | | 94.0 | |

Uncertainty: $\pm 0.1 dB$

5. Level Linearity on the Reference Level Range (8 kHz, A, F)

| Anticipated | UUT Reading | IEC 61672-1 |
|-------------|-------------|---------------|
| Value (dB) | (dB) | Class 1 Spec. |
| 124.0 | 123.9 | ± 0.8 dB |
| 114.0 | 113.9 | |
| 104.0 | 104.0 | |
| 94.0 | 94.0 (Ref.) | |
| 84.0 | 84.0 | |
| 74.0 | 74.0 | |
| 64.0 | 64.0 | |
| 54.0 | 54.0 | 1 <u>=</u> |
| 44.0 | 44.1 | |

Uncertainty: $\pm 0.1 \text{ dB}$

6. Level Linearity including the level range control (1 kHz, A, F)

N.A. (UUT is single range)

Remarks: 1. UUT: Unit-Under-Test

- 2. The uncertainty claimed is for a confidence probability of not less than 95%.
- 3. Atmospheric Pressure: 1 007 hPa.
- 4. Microphone model: UC-59, S/N: 04030.
- 5. Preamplifier model: NH-25, S/N: 21113.



Certificate No. 411655

4 Pages Page

Customer: Enovative Environmental Service Limited

Address: Room 23, 6/F, Block C, Goldfield Industrial Centre, 1 Siu Wo Road, Shatin, N.T.

Order No.: Q44338

Date of receipt

8-Nov-24

Item Tested

Description: Sound Level Meter

Manufacturer: RION

I.D.

Model

: NL-52

Serial No.

: 00175560

Test Conditions

Date of Test: 18-Nov-24

Supply Voltage : --

Ambient Temperature:

 $(23 \pm 3)^{\circ}C$

Relative Humidity: (50 ± 25) %

Test Specifications

Calibration check.

The UUT has an indication that it conforms to IEC 61672-1:2013/2002 Class 1

Ref. Document/Procedure: Z01, IEC 61672-1:2013, IEC 61260-1:2014.

Test Results

The results are shown in the attached page(s).

Main Test equipment used:

Equipment No. Description

Cert. No.

Traceable to

S240

Sound Level Calibrator

405380

NIM-PRC & SCL-HKSAR

S017

Multi-Function Generator

C211339

SCL-HKSAR

The values given in this Calibration Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Hong Kong Calibration Ltd. shall not be liable for any loss or damage resulting from the use of the equipment.

The test equipment used for calibration are traceable to International System of Units (SI), or by reference to a natural constant. The test results apply to the above Unit-Under-Test only

Calibrated by :

Elva Chong

Approved by:

Date:

Kin Wong

This Certificate is issued by Hong Kong Calibration Ltd.

18-Nov-24

Unit 8B, 24/F., Well Fung Industrial Centre, No. 58-76, Ta Chuen Ping Street, Kwai Chung, NT, Hong Kong. Tel: 2425 8801 Fax: 2425 8646



Certificate No. 411655

Page 2 of 4 Pages

Results:

Acoustical signal test

1. Indication at the Calibration Check Frequency (1kHz)

| UUT Setting | | Applied Value (dB) | UUT Reading (dB) | |
|-------------|----------|--------------------|------------------|--|
| Weight. | Response | | After Adjust.* | |
| A | F | 94.0 | 94.0 | |
| . B | S | | 94.0 | |
| C | F | | 94.0 | |
| Z | | | 94.0 | |

^{*}Adjustment using the customer's sound calibrator was performed immediately before test.

Tolerance : \pm 1.0 dB Uncertainty : \pm 0.1 dB

2. Self-generated noise (Microphone Installed, most sensitive range): 23.1 dBA (Mfr's Spec. ≤ 17 dBA)

Electrical signal tests

3. Frequency weightings (A,F)

| Freq | uency | Attenuation (dB) | IEC 61672-1 Class 1 Spec. |
|------|-------|------------------|--|
| 31.5 | Hz | -39.5 | - 39.4 dB, ± 1.5 dB |
| 63 | Hz | -26.2 | $-26.2 \text{ dB}, \pm 1.0 \text{ dB}$ |
| 125. | Hz | -16.2 | - 16.1 dB, ± 1.0 dB |
| 250 | Hz | -8.7 | - 8.6 dB, ± 1.0 dB |
| 500 | Hz | -3.2 | - $3.2 dB, \pm 1.0 dB$ |
| 1 | kHz | 0.0 (Ref) | $0 \text{ dB}, \pm 0.7 \text{ dB}$ |
| 2 | kHz | +1.2 | + 1.2 dB, ± 1.0 dB |
| 4 | kHz | +1.3 | + 1.0 dB, ± 1.0 dB |
| 8 | kHz | -1.0 | - 1.1 dB , + $1.5 \text{ dB} \sim -2.5 \text{ dB}$ |
| 16 | kHz | -2.5 | - 6.6 dB , $+2.5 \text{ dB} \sim -16.0 \text{ dB}$ |

Uncertainty: $\pm 0.1 \text{ dB}$



Certificate No. 411655

Page 3 of 4 Pages

4. Frequency & Time weightings

4.1 Frequency Weighting (1kHz)

| UUT Setting | | | | |
|--------------|---------------|-------------------|--------------|---------------|
| Time Weight. | Freq. Weight. | Anticipated Value | UUT | IEC 61672-1 |
| | . 3 | (dB) | Reading (dB) | Class 1 Spec. |
| F | A A | 94.0 | 94.0 (Ref.) | |
| | С | | 94.0 | ± 0.2 dB |
| | Z | | 94.0 | 8 |

Uncertainty: ± 0.1 dB

4.2 Time Weighting (1kHz)

| UUT Setting | | | | |
|--------------|---------------|-------------------|--------------|---------------|
| Time Weight. | Freq. Weight. | Anticipated Value | UUT | IEC 61672-1 |
| | | (dB) | Reading (dB) | Class 1 Spec. |
| F | A | 94.0 | 94.0 (Ref.) | |
| S | | 4 | 94.0 | ± 0.1 dB |
| eq | | | 94.0 | × × |

Uncertainty: ± 0.1 dB

5. Level Linearity on the Reference Level Range (8 kHz, A, F)

| | Devel Italige (O KIIZ, | 11,1 |
|-------------|-------------------------|---------------|
| Anticipated | UUT Reading | IEC 61672-1 |
| Value (dB) | (dB) | Class 1 Spec. |
| 124.0 | 123.9 | ± 0.8 dB |
| 114.0 | 114.0 | |
| 104.0 | 104.0 | |
| 94.0 | 94.0 (Ref.) | 8 |
| 84.0 | 84.0 | |
| 74.0 | 74.0 | 4 |
| 64.0 | 64.0 | |
| 54.0 | 54.0 | |
| 44.0 | 44.1 | |

Uncertainty: $\pm 0.1 \text{ dB}$

6. Level Linearity including the level range control ($1\ kHz,\ A,\ F$)

N.A. (UUT is single range)



Certificate No. 411655 Page 4 of 4 Pages

7. Filter Characteristics

7.1 1/1 – Octave Filter

| Frequency | Attenuation (dB) | Tolerance (dB) (Ref.: IEC 61260-1 Class 1 Spec.) |
|-------------|------------------|--|
| 125 Hz | -76.7 | < - 60 |
| 250 Hz | -71.4 | < - 40.5 |
| 500 Hz | -39.9 | < - 16.6 |
| 707 Hz | -3.3 | + 0.4 ~ - 5.3 |
| 1 kHz (Ref) | | |
| 1.414 kHz | -3.3 | + 0.4 ~ - 5.3 |
| 2 kHz | -40.9 | < - 16.6 |
| 4 kHz | -85.7 | < - 40.5 |
| 8 kHz | -86.3 | <- 60 |

Uncertainty: $\pm 0.25 \text{ dB}$

7.2 1/3 - Octave Filter

| Frequency | Attenuation (dB) | Tolerance (dB) (Ref.: IEC 61260-1 Class 1 Spec.) |
|-------------|------------------|--|
| 326 Hz | -65.3 | < - 60 |
| 530 Hz | -47.3 | < - 40.5 |
| 772 Hz | -22.5 | < - 16.6 |
| 891 Hz | -3.6 | + 0.4 ~ - 5.3 |
| 1 kHz (Ref) | | |
| 1.122 kHz | -3.8 | + 0.4 ~ - 5.3 |
| 1.296 kHz | -22.8 | < - 16.6 |
| 1.887 kHz | -47.7 | < - 40.5 |
| 3.070 kHz | -92.6 | < - 60 |

Uncertainty: $\pm 0.25 \text{ dB}$

Remarks: 1. UUT: Unit-Under-Test

2. The uncertainty claimed is for a confidence probability of not less than 95%.

3. Atmospheric Pressure: 1 007 hPa.

4. Microphone model: UC-59, S/N: 10989.

5. Preamplifier model: NH-25, S/N: 65662.

----- END -----



Certificate No. 411656

1 of 2 Pages Page

Customer: Enovative Environmental Service Limited

Address: Room 23, 6/F, Block C, Goldfield Industrial Centre, 1 Siu Wo Road, Shatin, N.T.

Order No.: Q44338

Date of receipt

8-Nov-24

Item Tested

Description: Sound Calibrator

Manufacturer: RION

I.D.

Model

: NC-74

Serial No.

: 34857296

Test Conditions

Date of Test: 18-Nov-24

Supply Voltage : --

Ambient Temperature :

(23 ± 3)°C

Relative Humidity: (50 ± 25) %

Test Specifications

Calibration check.

The UUT has an indication that it conforms to IEC 60942:2003 Class 1.

Ref. Document/Procedure: F21, Z02, IEC 60942:2003.

Test Results

All results were within the IEC 60942 Class 1 specification.

The results are shown in the attached page(s).

Main Test equipment used:

| Equipment No. | Description | Cert. No. | Traceable to |
|---------------|------------------------|-----------|---------------------|
| S014 | Spectrum Analyzer | 405219 | NIM-PRC & SCL-HKSAR |
| S240 | Sound Level Calibrator | 405380 | NIM-PRC & SCL-HKSAR |
| S041 | Universal Counter | 402289 | SCL-HKSAR |
| S206 | Sound Level Meter | 405379 | SCL-HKSAR |
| | | | |

The values given in this Calibration Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Hong Kong Calibration Ltd. shall not be liable for any loss or damage resulting from the use of the equipment.

The test equipment used for calibration are traceable to International System of Units (SI), or by reference to a natural constant. The test results apply to the above Unit-Under-Test only

Calibrated by :

Approved by:

18-Nov-24

This Certificate is issued by Hong Kong Calibration Ltd.

Unit 8B, 24/F., Well Fung Industrial Centre, No. 58-76, Ta Chuen Ping Street, Kwai Chung, NT, Hong Kong. Tel: 2425 8801 Fax: 2425 8646



Certificate No. 411656

Page 2 of 2 Pages

Results:

1. Generated Sound Pressure Level

| UUT Nominal Value (dB) | Measured Value (dB) | IEC 60942 Class 1 Spec. | |
|------------------------|---------------------|-------------------------|--|
| 94.0 | 94.0 | ± 0.4 dB | |

Uncertainty: ± 0.2 dB

2. Short-term Level Fluctuation: 0.0 dB

IEC 60942 Class 1 Spec. : ± 0.1 dB

Uncertainty: ± 0.05 dB

3. Frequency

| UUT Nominal Value (kHz) | Measured Value (kHz) | IEC 60942 Class 1 Spec. |
|-------------------------|----------------------|-------------------------|
| 1 | 1.002 | ± 1 % |

Uncertainty: $\pm 3.6 \times 10^{-6}$

4. Total Distortion + Noise: < 1.4 % IEC 60942 Class 1 Spec.: < 3.0 % Uncertainty: ± 2.3 % of reading

Remark: 1. UUT: Unit-Under-Test

2. The uncertainty claimed is for a confidence probability of not less than 95%.

3. Atmospheric Pressure: 1 007 hPa.

----- END -----



RECALIBRATION DUE DATE:

August 19, 2025

Certificate of Calibration

Calibration Certification Information

Cal. Date: August 19, 2024

Rootsmeter S/N: 438320

Ta: 296

°K

Operator: Jim Tisch

Pa: 754.9

mm Hg

Calibration Model #: TE-5025A

Calibrator S/N: 4285

| Run | Vol. Init (m3) | Vol. Final (m3) | ΔVol. (m3) | ΔTime (min) | ΔP (mm Hg) | ΔH (in H2O) |
|-----|-------------------|--------------------|---------------|----------------|---------------|----------------|
| 1 | 1 | 2 | 1 | 1.4390 | 3.2 | 2.00 |
| 2 | 3 | 4 | 1 | 1.0260 | 6.4 | 4.00 |
| 3 | 5 | 6 | 1 | 0.9160 | 8.0 | 5.00 |
| 4 | 7 | 8 | 1 | 0.8790 | .8.8 | 5.50 |
| 5 | 9 | 10 | 1 | 0.7240 | 12.8 | 8.00 |

| | Data Tabulation | | | | | |
|--------|-----------------|---|--------|----------|------------|--|
| Vstd | Qstd | $\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right) \left(\frac{Tstd}{Ta}\right)}$ | | Qa | √∆H(Ta/Pa) | |
| (m3) | (x-axis) | (y-axis) | Va | (x-axis) | (y-axis) | |
| 0.9957 | 0.6920 | 1.4142 | 0.9958 | 0.6920 | 0.8856 | |
| 0.9915 | 0.9664 | 2.0000 | 0.9915 | 0.9664 | 1.2524 | |
| 0.9894 | 1.0801 | 2.2361 | 0.9894 | 1.0801 | 1.4002 | |
| 0.9883 | 1.1244 | 2.3452 | 0.9883 | 1.1244 | 1.4685 | |
| 0.9830 | 1.3578 | 2.8284 | 0.9830 | 1.3578 | 1.7711 | |
| | m= | 2.12695 | | m= | 1.33186 | |
| QSTD[| b= | -0.05604 | QA | b= | -0.03509 | |
| | r= | 0.99994 | - | r= | 0.99994 | |

| Calculations | | | | |
|---|------------|-----|----------|--|
| Vstd= ΔVol((Pa-ΔP)/Pstd)(Tstd/Ta) Va= ΔVol((Pa-ΔP)/Pa) | | | | |
| Qstd= | Vstd/ΔTime | Qa= | Va/ΔTime | |
| For subsequent flow rate calculations: | | | | |
| Qstd= $1/m\left(\left(\sqrt{\Delta H\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)}\right)-b\right)$ Qa= $1/m\left(\left(\sqrt{\Delta H\left(Ta/Pa\right)}\right)-b\right)$ | | | | |

| | Standard Conditions | | | | |
|--|---|--|--|--|--|
| Tstd: | 298.15 °K | | | | |
| Pstd: | 760 mm Hg | | | | |
| | Key | | | | |
| ΔH: calibrator | ΔH: calibrator manometer reading (in H2O) | | | | |
| ΔP: rootsmeter manometer reading (mm Hg) | | | | | |
| Ta: actual absolute temperature (°K) | | | | | |
| Pa: actual barometric pressure (mm Hg) | | | | | |
| b: intercept | | | | | |
| m: slope | | | | | |

RECALIBRATION

US EPA recommends annual recalibration per 1998 40 Code of Federal Regulations Part 50 to 51, Appendix B to Part 50, Reference Method for the Determination of Suspended Particulate Matter in the Atmosphere, 9.2.17, page 30

Tisch Environmental, Inc. 145 South Miami Avenue Village of Cleves, OH 45002

www.tisch-env.com

TOLL FREE: (877)263-7610

FAX: (513)467-9009



RECALIBRATION DUE DATE:

December 2, 2025

Certificate of Calibration

Calibration Certification Information

Cal. Date: December 2, 2024

Calibration Model #: TE-5025A

Rootsmeter S/N: 438320

Ta: 293
Pa: 757.4

°K

Operator: Jim Tisch

Calibrator S/N: 2454

mm Hg

| Run | Vol. Init (m3) | Vol. Final (m3) | ΔVol. (m3) | ΔTime (min) | ΔP (mm Hg) | ΔH (in H2O) |
|-----|-------------------|--------------------|---------------|----------------|---------------|----------------|
| 1 | 1 | 2 | 1 | 1.4200 | 3.2 | 2.00 |
| 2 | 3 | 4 | 1 | 1.0170 | 6.4 | 4.00 |
| 3 | 5 | 6 | 1 | 0.9090 | 7.9 | 5.00 |
| 4 | 7 | 8 | 1 | 0.8700 | 8.8 | 5.50 |
| 5 | 9 | 10 | 1 | 0.7140 | 12.8 | 8.00 |

| | Data Tabulation | | | | | |
|--------|-----------------|---|--------|----------|------------|--|
| Vstd | Qstd | $\sqrt{\Delta H(\frac{Pa}{Pstd})(\frac{Tstd}{Ta})}$ | | Qa | √∆H(Ta/Pa) | |
| (m3) | (x-axis) | (y-axis) | Va | (x-axis) | (y-axis) | |
| 1.0093 | 0.7108 | 1.4238 | 0.9958 | 0.7013 | 0.8796 | |
| 1.0051 | 0.9883 | 2.0136 | 0.9916 | 0.9750 | 1.2439 | |
| 1.0031 | 1.1035 | 2.2512 | 0.9896 | 1.0886 | 1.3907 | |
| 1.0018 | 1.1515 | 2.3611 | 0.9884 | 1.1361 | 1.4586 | |
| 0.9965 | 1.3956 | 2.8476 | 0.9831 | 1.3769 | 1.7592 | |
| | m= | 2.08315 | | m= | 1.30443 | |
| QSTD | b= | -0.04938 | QA | b= | -0.03050 | |
| | r= | 0.99985 | | r= | 0.99985 | |

| | Calculation | ons | |
|-------|--|----------------|---|
| Vstd= | ΔVol((Pa-ΔP)/Pstd)(Tstd/Ta) | Va= | ΔVol((Pa-ΔP)/Pa) |
| Qstd= | Vstd/ΔTime | Qa= | Va/ΔTime |
| | For subsequent flow ra | ate calculatio | ns: |
| Qstd= | $1/m\left(\left(\sqrt{\Delta H\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)}\right)-b\right)$ | Qa= | $1/m\left(\left(\sqrt{\Delta H(Ta/Pa)}\right)-b\right)$ |

| | Standard Conditions | |
|----------------|------------------------------|----------|
| Tstd: | 298.15 °K | |
| Pstd: | 760 mm Hg | |
| | Key | |
| ΔH: calibrator | manometer reading (in H2O) | |
| ΔP: rootsmete | er manometer reading (mm Hg) | |
| Ta: actual abs | olute temperature (°K) | |
| Pa: actual bar | ometric pressure (mm Hg) | |
| b: intercept | | 2011/251 |
| m: slope | | |

RECALIBRATION

US EPA recommends annual recalibration per 1998
40 Code of Federal Regulations Part 50 to 51,
Appendix B to Part 50, Reference Method for the
Determination of Suspended Particulate Matter in
the Atmosphere, 9.2.17, page 30

Tisch Environmental, Inc. 145 South Miami Avenue Village of Cleves, OH 45002 www.tisch-env.com

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ALS Technichem (HK) Pty Ltd

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1 - 3 Wing Yip Street,

Kwai Chung, N.T., Hong Kong

T: +852 2610 1044 F: +852 2610 2021 www.alsglobal.com

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT: MR WS CHAN WORK ORDER: HK2513664

CLIENT: AECOM ASIA COMPANY LIMITED

ADDRESS: 13/F, TOWER 2, GRAND CENTRAL PLAZA, **SUB-BATCH:** (

138 SHATIN RURAL COMMITTEE ROAD, LABORATORY:

SHATIN, HONG KONG

LABORATORY: HONG KONG **DATE RECEIVED:** 08-Apr-2025 **DATE OF ISSUE:** 15-Apr-2025

GENERAL COMMENTS

The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.

The "Tolerance Limit" quoted is the acceptance criteria applicable for similar equipment used by the laboratory or quoted from relevant international standards.

The "Next Calibration Date" is recommended according to best practice principle as practised by the laboratory or quoted from relevant international standards.

The validity of equipment/ meter performance only applies to the result(s) stated in the report.

This report superseded any previous report(s) with same work order number.

EQUIPMENT INFORMATION

Equipment information (Brand name, Model No., Serial No. and Equipment No.) is provided by client.

Equipment Type: Multifunctional Meter Service Nature: Performance Check

Scope: Conductivity, Dissolved Oxygen, pH Value, Turbidity, Salinity and Temperature

Brand Name/ Model No.: [YSI]/ [6820 V2]

Serial No./ Equipment No.: [00H1019]/ [W.026.09]

Date of Calibration: 08-April-2025

M

Ms. Cheng Sin Ying, May Senior Chemist - Inorganics

This report shall not be reproduced except in full without the written approval of the laboratory.

WORK ORDER: HK2513664

SUB-BATCH:

DATE OF ISSUE: 15-Apr-2025

CLIENT: AECOM ASIA COMPANY LIMITED

Equipment Type:

Multifunctional Meter

Brand Name/ Model No.:

[YSI]/[6820 V2]

Serial No./

Equipment No.:

[00H1019]/[W.026.09]

Date of Calibration:

08-April-2025 Date of Next Calibration:

08-July-2025

PARAMETERS:

Conductivity

Method Ref: APHA (23rd edition), 2510B

| Expected Reading (µS/cm) | Displayed Reading (μS/cm) | Tolerance (%) |
|--------------------------|---------------------------|---------------|
| 146.9 | 150 | +2.1 |
| 6667 | 6965 | +4.5 |
| 12890 | 13014 | +1.0 |
| 58670 | 59481 | +1.4 |
| | Tolerance Limit (%) | ±10.0 |

Dissolved Oxygen

Method Ref: APHA (23rd edition), 4500O: G

| Expected Reading (mg/L) | Displayed Reading (mg/L) | Tolerance (mg/L) |
|-------------------------|--------------------------|------------------|
| 2.95 | 2.95 | +0.00 |
| 4.50 | 4.49 | -0.01 |
| 6.45 | 6.39 | -0.06 |
| | Tolerance Limit (mg/L) | ±0.20 |

pH Value

Method Ref: APHA (23rd edition), 4500H: B

| Expected Reading (pH unit) | Displayed Reading (pH unit) | Tolerance (pH unit) |
|----------------------------|-----------------------------|---------------------|
| 4.0 | 3.91 | -0.09 |
| 7.0 | 6.91 | -0.09 |
| 10.0 | 9.98 | -0.02 |
| | Tolerance Limit (pH unit) | ±0.20 |

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

Man

Ms. Cheng Sin Ying, May Senior Chemist - Inorganics

WORK ORDER: HK2513664

SUB-BATCH: 0

DATE OF ISSUE: 15-Apr-2025

CLIENT: AECOM ASIA COMPANY LIMITED

Equipment Type:

Multifunctional Meter

Brand Name/ Model No.:

[YSI]/[6820 V2]

Serial No./

[00H1019]/[W.026.09]

Equipment No.: Date of Calibration:

08-April-2025

Date of Next Calibration: 08-

08-July-2025

PARAMETERS:

Turbidity

Method Ref: APHA (23rd edition), 2130B

| Expected Reading (NTU) | Displayed Reading (NTU) | Tolerance (%) |
|------------------------|-------------------------|---------------|
| 0 | 0.2 | |
| 4 | 4.1 | +2.5 |
| 10 | 9.8 | -2.0 |
| 20 | 18.4 | -8.0 |
| 50 | 54.3 | +8.6 |
| 100 | 98.1 | -1.9 |
| | Tolerance Limit (%) | ±10.0 |

Salinity

Method Ref: APHA (23rd edition), 2520B

| Expected Reading (ppt) | Displayed Reading (ppt) | Tolerance (%) |
|------------------------|-------------------------|---------------|
| 0 | 0.00 | |
| 10 | 10.69 | +6.9 |
| 20 | 20.12 | +0.6 |
| 30 | 30.20 | +0.7 |
| | Tolerance Limit (%) | ±10.0 |

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

Man

Ms. Cheng Sin Ying, May Senior Chemist - Inorganics

WORK ORDER: HK2513664

SUB-BATCH: 0

15-Apr-2025

DATE OF ISSUE: CLIENT: AECOM ASIA COMPANY LIMITED

Equipment Type:

Multifunctional Meter

Brand Name/

[YSI]/[6820 V2]

Model No.: Serial No./

Equipment No.:

[00H1019]/[W.026.09]

Date of Calibration:

08-April-2025

08-July-2025

PARAMETERS:

Temperature Method Ref: Section 6 of International Accreditation New Zealand Technical

Guide No. 3 Second edition March 2008: Working Thermometer Calibration Procedure.

Date of Next Calibration:

| Expected Reading (°C) | Displayed Reading (°C) | Tolerance (°C) |
|-----------------------|------------------------|----------------|
| 10.3 | 10.55 | +0.3 |
| 20.3 | 20.12 | -0.2 |
| 38.3 | 38.66 | +0.4 |
| | Tolerance Limit (°C) | ±2.0 |

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.



Ms. Cheng Sin Ying, May Senior Chemist - Inorganics



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1 - 3 Wing Yip Street,

Kwai Chung, N.T., Hong Kong

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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT: MR WS CHAN WORK ORDER: HK2507719

CLIENT: AECOM ASIA COMPANY LIMITED

ADDRESS: 1501-10, 15/F, TOWER 1, **SUB-BATCH:** 0

GRAND CENTRAL PLAZA, LABORATORY: HONG KONG

138 SHATIN RURAL COMMITTEE ROAD, DATE RECEIVED: 25-Feb-2025 SHATIN, NEW TERRITORIES, HONG KONG DATE OF ISSUE: 04-Mar-2025

GENERAL COMMENTS

The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.

The "Tolerance Limit" quoted is the acceptance criteria applicable for similar equipment used by the laboratory or quoted from relevant international standards.

The "Next Calibration Date" is recommended according to best practice principle as practised by the laboratory or quoted from relevant international standards.

The validity of equipment/ meter performance only applies to the result(s) stated in the report.

This report superseded any previous report(s) with same work order number.

EQUIPMENT INFORMATION

Equipment information (Brand name, Model No., Serial No. and Equipment No.) is provided by client.

Equipment Type: Multifunctional Meter Service Nature: Performance Check

Scope: Conductivity, Dissolved Oxygen, pH Value, Turbidity, Salinity and Temperature

Brand Name/ Model No.: [YSI]/ [ProDSS]

Serial No./ Equipment No.: [22J104777/22H104506]/ [W.026.37]

Date of Calibration: 25-February-2025

16:5

Ms. Lin Wai Yu, Iris

Assistant Manager - Inorganics

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WORK ORDER: HK2507719

SUB-BATCH:

04-Mar-2025

CLIENT: AECOM ASIA COMPANY LIMITED

Equipment Type:

DATE OF ISSUE:

Multifunctional Meter

Brand Name/ Model No.:

[YSI]/[ProDSS]

Serial No./

[22J104777/22H104506]/[W.026.37]

Equipment No.:

[2231047777221104300]/[00.020.37]

Date of Calibration:

25-February-2025

Date of Next Calibration: 25-May-2025

PARAMETERS:

Conductivity

Method Ref: APHA (23rd edition), 2510B

| Expected Reading (µS/cm) | Displayed Reading (μS/cm) | Tolerance (%) |
|--------------------------|---------------------------|---------------|
| 146.9 | 148.9 | +1.4 |
| 6667 | 6401 | -4.0 |
| 12890 | 12349 | -4.2 |
| 58670 | 56860 | -3.1 |
| | Tolerance Limit (%) | ±10.0 |

Dissolved Oxygen

Method Ref: APHA (23rd edition), 4500O: G

| Expected Reading (mg/L) | Displayed Reading (mg/L) | Tolerance (mg/L) |
|-------------------------|--------------------------|------------------|
| 1.84 | 1.87 | +0.03 |
| 5.81 | 5.91 | +0.10 |
| 7.62 | 7.73 | +0.11 |
| | Tolerance Limit (mg/L) | ±0.20 |

pH Value

Method Ref: APHA (23rd edition), 4500H: B

| Expected Reading (pH unit) | Displayed Reading (pH unit) | Tolerance (pH unit) |
|----------------------------|-----------------------------|---------------------|
| 4.0 | 4.11 | +0.11 |
| 7.0 | 7.14 | +0.14 |
| 10.0 | 9.97 | -0.03 |
| | Tolerance Limit (pH unit) | ±0.20 |

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

Ms. Lin Wai Yu, Iris

WORK ORDER: HK2507719

SUB-BATCH: 0

DATE OF ISSUE: 04-Mar-2025

CLIENT: AECOM ASIA COMPANY LIMITED

Equipment Type:

Multifunctional Meter

Brand Name/ Model No.:

[YSI]/[ProDSS]

Serial No./

Equipment No.:

[22J104777/22H104506]/ [W.026.37]

Date of Calibration:

25-February-2025

Date of Next Calibration:

25-May-2025

PARAMETERS:

Turbidity

Method Ref: APHA (23rd edition), 2130B

| Expected Reading (NTU) | Displayed Reading (NTU) | Tolerance (%) |
|------------------------|-------------------------|---------------|
| 0 | -0.09 | |
| 4 | 3.80 | -5.0 |
| 10 | 10.27 | +2.7 |
| 20 | 19.77 | -1.2 |
| 50 | 50.38 | +0.8 |
| 100 | 97.56 | -2.4 |
| | Tolerance Limit (%) | ±10.0 |

Salinity

Method Ref: APHA (23rd edition), 2520B

| Expected Reading (ppt) | Displayed Reading (ppt) | Tolerance (%) |
|------------------------|-------------------------|---------------|
| 0 | 0.08 | |
| 10 | 10.22 | +2.2 |
| 20 | 20.70 | +3.5 |
| 30 | 30.49 | +1.6 |
| | Tolerance Limit (%) | ±10.0 |

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

Ms. Lin Wai Yu, Iris

WORK ORDER: HK2507719

SUB-BATCH: 0

DATE OF ISSUE: 04-Mar-2025

CLIENT: AECOM ASIA COMPANY LIMITED

Equipment Type:

Multifunctional Meter

Brand Name/

[YSI]/[ProDSS]

Model No.: Serial No./

[22J104777/22H104506]/ [W.026.37]

Equipment No.:

[22310477772211104300]/ [44.020.37]

Date of Calibration:

25-February-2025

Date of Next Calibration:

25-May-2025

PARAMETERS:

Temperature Method Ref: Section 6 of International Accreditation New Zealand Technical

Guide No. 3 Second edition March 2008: Working Thermometer Calibration Procedure.

| Expected Reading (°C) | Displayed Reading (°C) | Tolerance (°C) |
|-----------------------|------------------------|----------------|
| 8.8 | 8.9 | +0.1 |
| 19.3 | 18.7 | -0.6 |
| 39.0 | 38.7 | -0.3 |
| | Tolerance Limit (°C) | ±2.0 |

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

Ms. Lin Wai Yu, Iris



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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT: MR WS CHAN WORK ORDER: HK2520682

CLIENT: AECOM ASIA COMPANY LIMITED

ADDRESS: 13/F, TOWER 2, GRAND CENTRAL PLAZA, SUB-BATCH: (

138 SHATIN RURAL COMMITTEE ROAD, LABORATORY: HONG KONG

SHATIN, HONG KONG

DATE RECEIVED: 23-May-2025

DATE OF ISSUE: 28-May-2025

GENERAL COMMENTS

The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.

The "Tolerance Limit" quoted is the acceptance criteria applicable for similar equipment used by the laboratory or quoted from relevant international standards.

The "Next Calibration Date" is recommended according to best practice principle as practised by the laboratory or quoted from relevant international standards.

The validity of equipment/ meter performance only applies to the result(s) stated in the report.

This report superseded any previous report(s) with same work order number.

EQUIPMENT INFORMATION

Equipment information (Brand name, Model No., Serial No. and Equipment No.) is provided by client.

Equipment Type: Multifunctional Meter Service Nature: Performance Check

Scope: Conductivity, Dissolved Oxygen, pH Value, Turbidity, Salinity and Temperature

Brand Name/ Model No.: [YSI]/ [ProDSS]

Serial No./ Equipment No.: [22J104777/22H104506]/ [W.026.37]

Date of Calibration: 23-May-2025

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Ms. Lin Wai Yu, Iris

Assistant Manager - Inorganics

This report shall not be reproduced except in full without the written approval of the laboratory.

WORK ORDER: HK2520682

SUB-BATCH: 0

DATE OF ISSUE: 28-May-2025

CLIENT: AECOM ASIA COMPANY LIMITED

Equipment Type:

Multifunctional Meter

Brand Name/ Model No.:

[YSI]/[ProDSS]

Serial No./

[22J104777/22H104506]/[W.026.37]

Equipment No.:

[22310477772211104300]/[44.020.37]

Date of Calibration:

23-May-2025

Date of Next Calibration:

23-August-2025

PARAMETERS:

Conductivity

Method Ref: APHA (23rd edition), 2510B

| Expected Reading (µS/cm) | Displayed Reading (μS/cm) | Tolerance (%) |
|--------------------------|---------------------------|---------------|
| 146.9 | 140.4 | -4.4 |
| 6667 | 6328 | -5.1 |
| 12890 | 12603 | -2.2 |
| 58670 | 56971 | -2.9 |
| | Tolerance Limit (%) | ±10.0 |

Dissolved Oxygen

Method Ref: APHA (23rd edition), 4500O: G

| Expected Reading (mg/L) | Displayed Reading (mg/L) | Tolerance (mg/L) |
|-------------------------|--------------------------|------------------|
| 1.92 | 1.99 | +0.07 |
| 4.44 | 4.48 | +0.04 |
| 6.82 | 6.78 | -0.04 |
| | Tolerance Limit (mg/L) | ±0.20 |

pH Value

Method Ref: APHA (23rd edition), 4500H: B

| Expected Reading (pH unit) | Displayed Reading (pH unit) | Tolerance (pH unit) |
|----------------------------|-----------------------------|---------------------|
| 4.0 | 4.00 | +0.00 |
| 7.0 | 6.91 | -0.09 |
| 10.0 | 10.01 | +0.01 |
| | Tolerance Limit (pH unit) | ±0.20 |

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

Ms. Lin Wai Yu, Iris

WORK ORDER: HK2520682

SUB-BATCH: 0

DATE OF ISSUE: 28-May-2025

CLIENT: AECOM ASIA COMPANY LIMITED

Equipment Type:

Multifunctional Meter

Brand Name/

[YSI]/[ProDSS]

Model No.: Serial No./

Equipment No.:

[22J104777/22H104506]/[W.026.37]

Date of Calibration:

23-May-2025

Date of Next Calibration:

23-August-2025

PARAMETERS:

Turbidity

Method Ref: APHA (23rd edition), 2130B

| Expected Reading (NTU) | Displayed Reading (NTU) | Tolerance (%) |
|------------------------|-------------------------|---------------|
| 0 | 0.07 | |
| 4 | 4.04 | +1.0 |
| 10 | 10.29 | +2.9 |
| 20 | 20.30 | +1.5 |
| 50 | 49.71 | -0.6 |
| 100 | 99.60 | -0.4 |
| | Tolerance Limit (%) | ±10.0 |

Salinity

Method Ref: APHA (23rd edition), 2520B

| Expected Reading (ppt) | Displayed Reading (ppt) | Tolerance (%) |
|------------------------|-------------------------|---------------|
| 0 | 0.01 | |
| 10 | 9.98 | -0.2 |
| 20 | 20.39 | +2.0 |
| 30 | 29.76 | -0.8 |
| | Tolerance Limit (%) | ±10.0 |

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

Ms. Lin Wai Yu, Iris

WORK ORDER: HK2520682

SUB-BATCH: 0

DATE OF ISSUE: 28-May-2025

CLIENT: AECOM ASIA COMPANY LIMITED

Equipment Type:

Multifunctional Meter

Brand Name/

[YSI]/[ProDSS]

Model No.: Serial No./

Equipment No.:

[22J104777/22H104506]/ [W.026.37]

Date of Calibration:

23-May-2025

Date of Next Calibration:

23-August-2025

PARAMETERS:

Temperature

Method Ref: Section 6 of International Accreditation New Zealand Technical

Guide No. 3 Second edition March 2008: Working Thermometer Calibration Procedure.

| Expected Reading (°C) | Displayed Reading (°C) | Tolerance (°C) |
|-----------------------|------------------------|----------------|
| 10.3 | 10.2 | -0.1 |
| 19.8 | 20.3 | +0.5 |
| 37.8 | 38.1 | +0.3 |
| | Tolerance Limit (°C) | ±2.0 |

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

Ms. Lin Wai Yu, Iris