



# Calibration Certificate

Certificate No. **311868**

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**Customer :** Enovative Environmental Service Limited

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

**Order No. :** Q34412

**Date of receipt :** 14-Dec-23

## Item Tested

**Description :** Sound Level Meter

**Manufacturer :** RION

**Model :** NL-52

**I.D. :** --

**Serial No. :** 01143484

## Test Conditions

**Date of Test :** 9-Jan-24

**Ambient Temperature :** (23 ± 3)°C

**Supply Voltage :** --

**Relative Humidity :** (50 ± 25) %

## Test Specifications

Calibration check.

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

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

## Test Results

All results were within the IEC 61672 Class 1, manufacturer's specification or Tolerance.

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

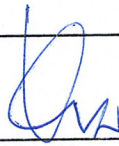
Main Test equipment used:

<u>Equipment No.</u>	<u>Description</u>	<u>Cert. No.</u>	<u>Traceable to</u>
S240	Sound Level Calibrator	303941	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 :**   
Kin Wong

**Date:** 9-Jan-24



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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
	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) : 16.5 dBA (Mfr's Spec. $\leq 17$ dBA)

## Electrical signal tests

### 3. Frequency weightings ( A ,F )

Frequency	Attenuation (dB)	IEC 61672-1 Class 1 Spec.
31.5 Hz	-39.7	- 39.4 dB, $\pm 1.5$ dB
63 Hz	-26.2	- 26.2 dB, $\pm 1.0$ dB
125 Hz	-16.1	- 16.1 dB, $\pm 1.0$ dB
250 Hz	-8.6	- 8.6 dB, $\pm 1.0$ dB
500 Hz	-3.2	- 3.2 dB, $\pm 1.0$ dB
1 kHz	0.0 (Ref)	0 dB, $\pm 0.7$ dB
2 kHz	+1.0	+ 1.2 dB, $\pm 1.0$ dB
4 kHz	+0.7	+ 1.0 dB, $\pm 1.0$ dB
8 kHz	-1.2	- 1.1 dB, + 1.5 dB ~ -2.5 dB
16 kHz	-8.6	- 6.6 dB, + 2.5 dB ~ - 16.0 dB

Uncertainty :  $\pm 0.1$  dB



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## 4. Frequency & Time weightings

### 4.1 Frequency Weighting ( 1kHz )

UUT Setting		Anticipated Value (dB)	UUT Reading (dB)	IEC 61672-1 Class 1 Spec.
Time Weight.	Freq. Weight.			
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 )

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

Uncertainty : ± 0.1 dB

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

Anticipated Value (dB)	UUT Reading (dB)	IEC 61672-1 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	
44.0	44.1	

Uncertainty : ± 0.1 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: 1 008 hPa.

4. Microphone model: UC-59, S/N: 07032.

5. Preamplifier model: NH-25, S/N: 43399.

----- END -----





# Calibration Certificate

Certificate No. 311870

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**Customer :** Enovative Environmental Service Limited

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

**Order No. :** Q34412

**Date of receipt :** 14-Dec-23

## Item Tested

**Description :** Sound Calibrator

**Manufacturer :** RION

**Model :** NC-74

**I.D. :** --

**Serial No. :** 34678506

## Test Conditions

**Date of Test :** 9-Jan-24

**Ambient Temperature :** (23 ± 3)°C

**Supply Voltage :** --

**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).

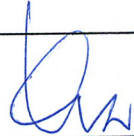
Main Test equipment used:

<u>Equipment No.</u>	<u>Description</u>	<u>Cert. No.</u>	<u>Traceable to</u>
S014	Spectrum Analyzer	303639	NIM-PRC & SCL-HKSAR
S240	Sound Level Calibrator	303941	NIM-PRC & SCL-HKSAR
S041	Universal Counter	300591	SCL-HKSAR
S206	Sound Level Meter	303634	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 :**   
Eiva Chong

**Approved by :**   
Kin Wong

**Date:** 9-Jan-24



# Calibration Certificate

Certificate No. 311870

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Results :

## 1. Generated Sound Pressure Level

UUT Nominal Value (dB)	Measured Value (dB)	IEC 60942 Class 1 Spec.
94.0	93.9	$\pm 0.4$ dB

Uncertainty :  $\pm 0.2$  dB

## 2. Short-term Level Fluctuation : 0.0 dB

IEC 60942 Class 1 Spec. :  $\pm 0.1$  dB

Uncertainty :  $\pm 0.05$  dB

## 3. Frequency

UUT Nominal Value (kHz)	Measured Value (kHz)	IEC 60942 Class 1 Spec.
1	1.001	$\pm 1$ %

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

## 4. Total Distortion + Noise : $< 1.2$ %

IEC 60942 Class 1 Spec. :  $< 3.0$  %

Uncertainty :  $\pm 2.3$  % 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 : 1 008 hPa.

----- END -----

ENVIROTECH SERVICES CO.

**High-Volume TSP Sampler**  
**5-Point Calibration Record**

Location : AMS5(Ma Wan Chung Village)  
Calibrated by : P.F.Yeung  
Date : 15/03/2024

**Sampler**

Model : TE-5170  
Serial Number : S/N3640

**Calibration Orifice and Standard Calibration Relationship**

Serial Number : 2454  
Next Calibration Date : 15 December 2024  
Slope (m) : 2.07544  
Intercept (b) : -0.03205  
Correlation Coefficient(r) : 0.99999

**Standard Condition**

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

**Calibration Condition**

Pa (hpa) : 1015  
Ta(K) : 297

Resistance Plate	dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC	Y
1   18 holes	11.6	3.422	1.664	54	54.26
2   13 holes	9.2	3.048	1.484	48	48.23
3   10 holes	6.8	2.620	1.278	42	42.20
4   7 holes	4.5	2.131	1.042	35	35.17
5   5 holes	3.0	1.740	0.854	25	25.12

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

**Sampler Calibration Relationship**

Slope(m): 35.548      Intercept(b): -2.690      Correlation Coefficient(r): 0.9930

Checked by: Magnum Fan

Date: 15/03/2023





# Certificate of Calibration

Calibration Certification Information			
Cal. Date: December 15, 2023	Rootsmeter S/N: 438320	Ta: 295	°K
Operator: Jim Tisch		Pa: 748.5	mm Hg
Calibration Model #: TE-5025A	Calibrator S/N: <b>2454</b>		

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.4250	3.2	2.00
2	3	4	1	1.0090	6.4	4.00
3	5	6	1	0.9040	7.9	5.00
4	7	8	1	0.8610	8.8	5.50
5	9	10	1	0.7110	12.8	8.00

Data Tabulation					
Vstd (m3)	Qstd (x-axis)	$\sqrt{\Delta H \left( \frac{Pa}{Pstd} \right) \left( \frac{Tstd}{Ta} \right)}$ (y-axis)	Va	Qa (x-axis)	$\sqrt{\Delta H (Ta/Pa)}$ (y-axis)
0.9907	0.6952	1.4106	0.9957	0.6988	0.8878
0.9864	0.9776	1.9949	0.9914	0.9826	1.2556
0.9844	1.0890	2.2304	0.9894	1.0945	1.4037
0.9832	1.1420	2.3393	0.9882	1.1478	1.4723
0.9779	1.3754	2.8213	0.9829	1.3824	1.7756
<b>QSTD</b>	m=	<b>2.07544</b>	<b>QA</b>	m=	<b>1.29961</b>
	b=	<b>-0.03205</b>		b=	<b>-0.02017</b>
	r=	<b>0.99999</b>		r=	<b>0.99999</b>

Calculations			
Vstd=	$\Delta Vol \left( \frac{Pa - \Delta P}{Pstd} \right) \left( \frac{Tstd}{Ta} \right)$	Va=	$\Delta Vol \left( \frac{Pa - \Delta P}{Pa} \right)$
Qstd=	Vstd/ΔTime	Qa=	Va/ΔTime
<b>For subsequent flow rate calculations:</b>			
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:	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

## EQUIPMENT CALIBRATION RECORD

**Type :** Laser Dust Monitor  
**Manufacturer / Brand :** SIBATA  
**Model No.:** LD-5R  
**Equipment No.:** LD-5R-002  
**Serial No.:** 861988  
**Sensitivity Adjustment Scale Setting :** 621 CPM

### Standard Equipment

**Equipment :** MFC High Volume Air Sampler  
**Venue :** Tung Chung Pier  
**Model No.:** TE-5170 Total Suspended Particulate  
**Serial No.:** S/N3641  
**Previous Calibration Date:** 24-Apr-2023

### Calibration Result

**Sensitivity Adjustment Scale Setting (Before Calibration) :** 621 CPM  
**Sensitivity Adjustment Scale Setting (After Calibration) :** 621 CPM

Date (dd-mmm-yy)	Time		Ambient Condition		Concentration (ug/m <sup>3</sup> ) Y-axis	Total Count	Count/Minute X-axis
			Temp (°C)	R.H. (%)			
10-May-23	9:25	11:25	31.4	68%	72.8	2427	40.5
16-May-23	9:00	11:00	25.2	87%	29.4	668	11.1
16-May-23	14:30	15:30	25.2	87%	30.1	469	7.8
16-May-23	15:35	16:35	25.2	87%	18.7	151	2.5

Be Linear Regression of Y or X

Slope (K-factor): 1.4003      Intercept,b: 16.0750

Correlation coefficient (R): 0.99550

Remark: Strong Correlation (R>0.8)

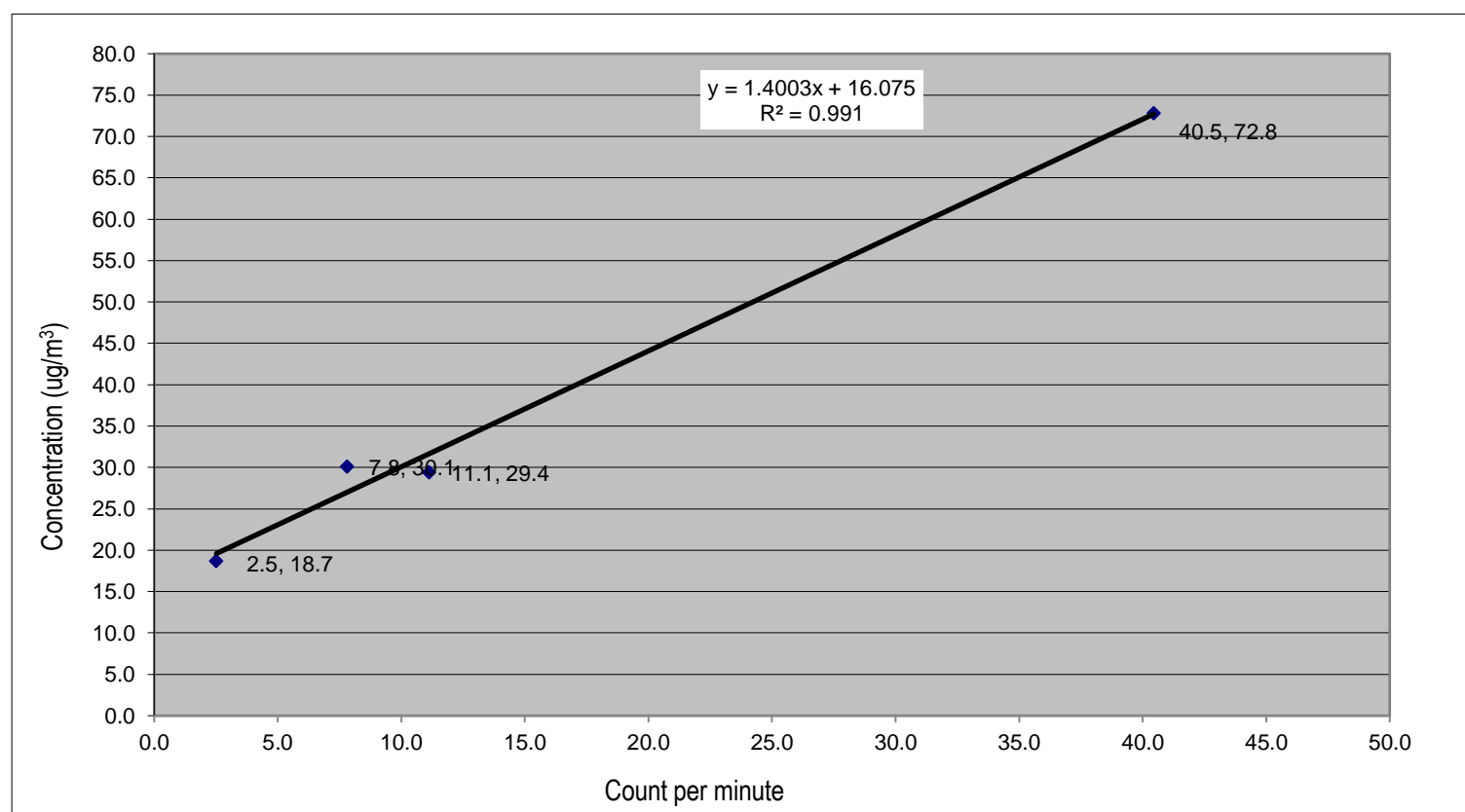
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Recorded by: Irene Tsang

Signature: *Irene Tsang*

Date: 01-Jun-23

Checked by: Ruby Law

Signature: *Ruby Law*

Date: 01-Jun-23





# Enovative Environmental Service Limited

## REPORT OF EQUIPMENT CALIBRATION

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### 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: 20 October, 2023  
Date of Next Calibration : 20 October, 2024

### 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](mailto:info@eno.com.hk)



*Thomas*

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Mr Wong Siu Ho, Thomas  
Manager



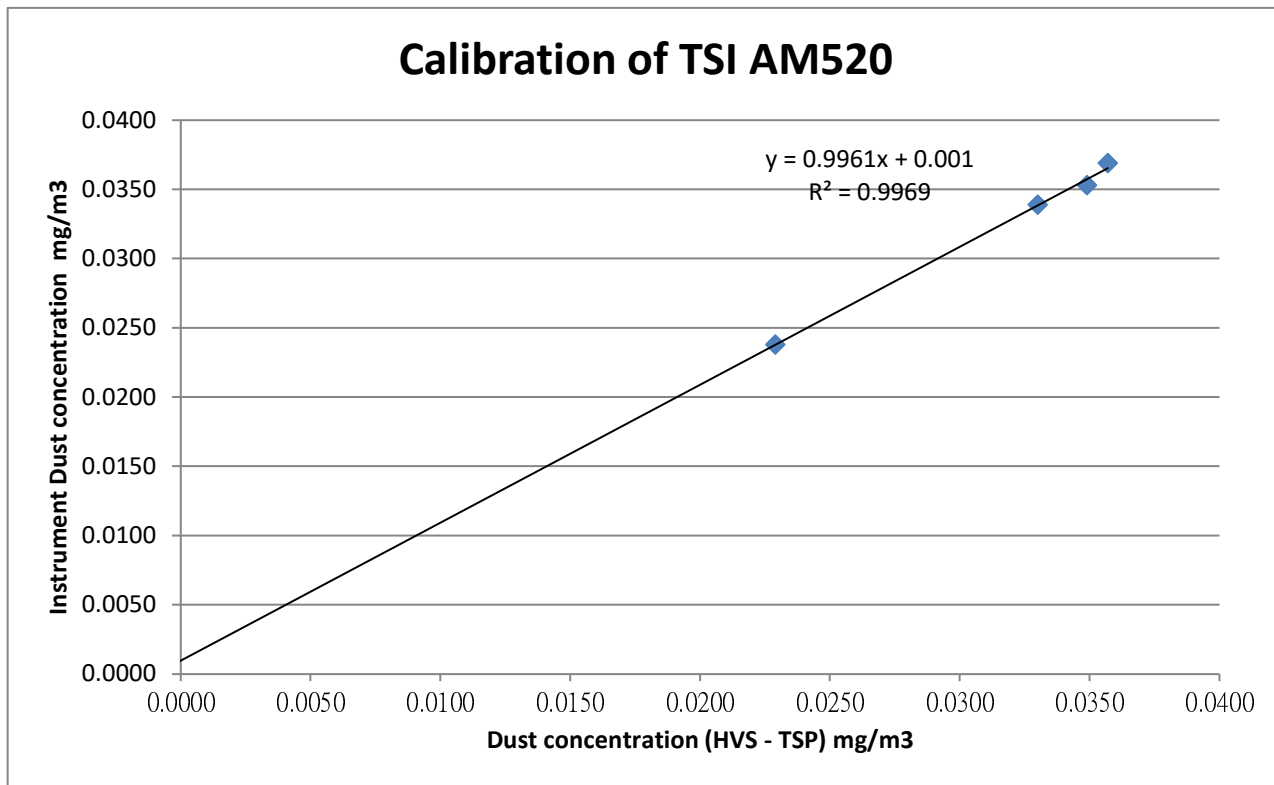
# Enovative Environmental Service Limited

Brand Name: TSI  
 Model No.: AM520  
 Serial No.: 5201735004  
 HVS No.: A12-TSP-102  
 Date of Calibration: 20 October, 2023  
 Date of next Calibration: 20 October, 2024

### Calibration Record

HVS - TSP (mg/m3)	0.0229	0.0330	0.0357	0.0349
TSI AM520 (mg/m3)	0.0238	0.0339	0.0369	0.0353

<b>K Factor :</b>	0.9961
<b>Correlation Coefficient :</b>	0.9969



\*\*\* Filter paper being used in the calibration : 209591, 209592, 209593, 209594  
 Those filter papers are weighted by HOKLAS laboratory (ALS Technichem (HK) Pty Ltd.)



Mr Wong Siu Ho, Thomas  
 Manager



## **REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION**

**CONTACT:** MR WS CHAN  
**CLIENT:** AECOM ASIA COMPANY LIMITED  
**ADDRESS:** 1501-10, 15/F, TOWER 1,  
GRAND CENTRAL PLAZA,  
138 SHATIN RURAL COMMITTEE ROAD,  
SHATIN, NEW TERRITORIES, HONG KONG

**WORK ORDER:** HK2404291  
**AMENDMENT NO.:** 1  
**SUB-BATCH:** 0  
**LABORATORY:** HONG KONG  
**DATE RECEIVED:** 30-Jan-2024  
**DATE OF ISSUE:** 09-Feb-2024

### 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 is an amendment of the Certificate of Analysis.

The Date of Calibration and Date of Next Calibration have been amended.

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: 30-January-2024

Mr Chan Siu Ming, Vico  
Assistant Laboratory Manager  
Environmental

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# REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION



**WORK ORDER:** HK2404291  
**AMENDMENT NO.:** 1  
**SUB-BATCH:** 0  
**DATE OF ISSUE:** 09-Feb-2024  
**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: 30-January-2024 Date of Next Calibration: 30-April-2024

## PARAMETERS:

### Conductivity

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

Expected Reading ( $\mu\text{S}/\text{cm}$ )	Displayed Reading ( $\mu\text{S}/\text{cm}$ )	Tolerance (%)
146.9	149	+1.4
6667	6907	+3.6
12890	13179	+2.2
58670	59950	+2.2
	Tolerance Limit (%)	$\pm 10.0$

### Dissolved Oxygen

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

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
2.79	2.84	+0.05
4.95	5.03	+0.08
7.52	7.57	+0.05
	Tolerance Limit (mg/L)	$\pm 0.20$

### pH Value

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

Expected Reading (pH unit)	Displayed Reading (pH unit)	Tolerance (pH unit)
4.0	4.02	+0.02
7.0	6.97	-0.03
10.0	9.99	-0.01
	Tolerance Limit (pH unit)	$\pm 0.20$

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

Mr Chan Siu Ming, Vico  
Assistant Laboratory Manager  
Environmental

# REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION



**WORK ORDER:** HK2404291  
**AMENDMENT NO.:** 1  
**SUB-BATCH:** 0  
**DATE OF ISSUE:** 09-Feb-2024  
**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: 30-January-2024 Date of Next Calibration: 30-April-2024

## PARAMETERS:

### Turbidity

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

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0	-0.2	--
4	3.9	-2.5
10	9.9	-1.0
20	19.6	-2.0
50	50.4	+0.8
100	94.6	-5.4
	Tolerance Limit (%)	±10.0

### Salinity

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

Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)
0	0.01	--
10	10.49	+4.9
20	20.58	+2.9
30	31.51	+5.0
	Tolerance Limit (%)	±10.0

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

Mr Chan Siu Ming, Vico  
Assistant Laboratory Manager  
Environmental

# REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION



**WORK ORDER:** HK2404291  
**AMENDMENT NO.:** 1  
**SUB-BATCH:** 0  
**DATE OF ISSUE:** 09-Feb-2024  
**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: 30-January-2024 Date of Next Calibration: 30-April-2024

## 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)
10.0	10.06	+0.1
21.0	21.62	+0.6
38.0	38.47	+0.5
	Tolerance Limit (°C)	±2.0

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

Mr Chan Siu Ming, Vico  
Assistant Laboratory Manager  
Environmental





## REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

**CONTACT:** WS CHAN  
**CLIENT:** AECOM ASIA COMPANY LIMITED  
**ADDRESS:** 1501-10, 15/F, TOWER 1,  
GRAND CENTRAL PLAZA,  
138 SHATIN RURAL COMMITTEE ROAD,  
SHATIN, NEW TERRITORIES, HONG KONG

**WORK ORDER:** HK2408657  
**SUB-BATCH:** 0  
**LABORATORY:** HONG KONG  
**DATE RECEIVED:** 05-Mar-2024  
**DATE OF ISSUE:** 11-Mar-2024

### 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: 05-March-2024

Ms. Lin Wai Yu, Iris  
Assistant Manager - Inorganics

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# REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION



**WORK ORDER:** HK2408657  
**SUB-BATCH:** 0  
**DATE OF ISSUE:** 11-Mar-2024  
**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: 05-March-2024 Date of Next Calibration: 05-June-2024

## PARAMETERS:

### Conductivity

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

Expected Reading ( $\mu\text{S}/\text{cm}$ )	Displayed Reading ( $\mu\text{S}/\text{cm}$ )	Tolerance (%)
146.9	158.6	+8.0
6667	6616	-0.8
12890	12929	+0.3
58670	57137	-2.6
	Tolerance Limit (%)	$\pm 10.0$

### Dissolved Oxygen

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

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
2.12	2.22	+0.10
4.25	4.34	+0.09
6.33	6.46	+0.13
	Tolerance Limit (mg/L)	$\pm 0.20$

### 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	6.99	-0.01
10.0	10.03	+0.03
	Tolerance Limit (pH unit)	$\pm 0.20$

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

Ms. Lin Wai Yu, Iris  
Assistant Manager - Inorganics

# REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION



**WORK ORDER:** HK2408657  
**SUB-BATCH:** 0  
**DATE OF ISSUE:** 11-Mar-2024  
**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: 05-March-2024 Date of Next Calibration: 05-June-2024

## PARAMETERS:

### Turbidity

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

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0	0.02	--
4	3.94	-1.5
10	9.80	-2.0
20	19.07	-4.7
50	48.66	-2.7
100	101.75	+1.8
	Tolerance Limit (%)	±10.0

### Salinity

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

Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)
0	0.00	--
10	10.21	+2.1
20	19.87	-0.6
30	30.04	+0.1
	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  
Assistant Manager - Inorganics



# REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION



**WORK ORDER:** HK2408657  
**SUB-BATCH:** 0  
**DATE OF ISSUE:** 11-Mar-2024  
**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: 05-March-2024 Date of Next Calibration: 05-June-2024

## 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)
10.0	9.8	-0.2
20.5	20.0	-0.5
38.0	37.6	-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.

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Assistant Manager - Inorganics