

Certificate No.	311868		Page	1 of 3	Pages
Customer :	Enovative Environmental Servi	ce Limited			
Address :	Room 23, 6/F, Block C, Goldfie	eld Industrial Centre	, 1 Siu Wo Road, S	Shatin, N.T.	
Order No. :	Q34412		Date of receipt		14-Dec-23
Item Tested					
Description :	Sound Level Meter				
Manufacturer :			I.D.	:	
Model :	NL-52		Serial No.	: 01143	484
Test Conditi	ons				
Date of Test :	9-Jan-24		Supply Voltage	e :	
Ambient Temp	erature : $(23 \pm 3)^{\circ}C$		Relative Humi	dity: (50 ± 2	25) %
Test Specifi					
Calibration chee	∩k				
	n indication that it conforms to I	EC 61672-1:2002 (Class 1		
	/Procedure: Z01, IEC 61672-1:2				
Test Result					
		for the second	ification or Toloro	200	
	within the IEC 61672 Class 1, i			ice.	
The results are	shown in the attached page(s).				
Main Test equi	nment used:				
Equipment No.		Cert. No.		Traceable	to
S240	Sound Level Calibrator	303941			& SCL-HKSAR
S017	Multi-Function Generator	C211339		SCL-HKS/	٩R
3017		0211000			
		•			
The values given i	n this Calibration Certificate only relate owance for the equipment long term dri	to the values measured	l at the time of the test nmental changes, vibra	and any uncerta tion and shock	ainties quoted during transportation,
overloading, mis-h	handling, or the capability of any other la	aboratory to repeat the r	neasurement. Hong Ko	ong Calibration	Ltd. shall not be liable
for any loss or dar	nage resulting from the use of the equi	pment.			
The test equipment	nt used for calibration are traceable to I	nternational System of I	Jnits (SI), or by referen	ce to a natural	constant.
The test results ap	oply to the above Unit-Under-Test only			19	
	1 200				
Calibrated by	. 'Y	A	pproved by :	AM	
Cambrated by	Elva Chong			Kin Wong	
This Certificate is issue	d by:	D	ate: 9-Jan-24		
Hong Kong Calibration Unit 8B, 24/F, Well Fur	Ltd. ng Industrial Centre, No. 58-76, Ta Chuen Ping Stre	et,Kwai Chung, NT,Hong Kong.			
Tel: 2425 8801 Fax: 24					



Certificate No. 311868

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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.*
А	F	94.0	94.0
	S		94.0
С	F		94.0
Z			94.0

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

Tolerance : $\pm 1.0 \text{ dB}$ Uncertainty : $\pm 0.1 \text{ dB}$

2. Self-generated noise (Microphone Installed, most sensitive range): 16.5 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	-39.7	- 39.4 dB, ± 1.5 dB
63	Hz	-26.2	- 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)	$0 \text{ dB}, \pm 0.7 \text{ dB}$
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 : $\pm 0.1 \text{ dB}$



Certificate No. 311868

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4. Frequency & Time weightings

4.1 Frequency Weighting (1kHz)

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

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

4.2 Time Weighting (1kHz)

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

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

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 : $\pm 0.1 \text{ dB}$

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: 1 008 hPa.
- 4. Microphone model: UC-59, S/N: 07032.
- 5. Preamplifier model: NH-25, S/N: 43399.



Certificate No.	311870		Page	1 of 2 Pa	ages
Customer :	Enovative Environmental Service	e Limited			
Address :	Room 23, 6/F, Block C, Goldfield	Industrial Centre,	1 Siu Wo Road, S	shatin, N.T.	
Order No. :			Date of receipt		4-Dec-23
Item Tested	•				
Description :	Sound Calibrator				
Manufacturer :	RION		I.D.	:	
Model :	NC-74		Serial No.	: 34678506	
Test Conditi	ions				
Date of Test :	9-Jan-24		Supply Voltage		
Ambient Temp	erature : $(23 \pm 3)^{\circ}C$		Relative Humic	lity: (50 ± 25)	%
Test Specifi	cations				
Calibration chee	ck.				
The UUT has a	n indication that it conforms to IE	C 60942:2003 Clas	s 1.		
Ref. Document	/Procedure : F21, Z02, IEC 60942	2:2003.			
Test Result	S				
All results were	within the IEC 60942 Class 1 spe	ecification.			
	shown in the attached page(s).				
Main Test equi	pment used:				
Equipment No.	Description	Cert. No.		Traceable to	
S014	Spectrum Analyzer	303639		NIM-PRC & SO	
S240	Sound Level Calibrator	303941		NIM-PRC & S	CL-HKSAR
S041	Universal Counter	300591		SCL-HKSAR	
S206	Sound Level Meter	303634		SCL-HKSAR	
will not include allo overloading, mis-h	n this Calibration Certificate only relate to owance for the equipment long term drift, nandling, or the capability of any other lab nage resulting from the use of the equipm	variations with environm oratory to repeat the me	hental changes, vibrat	ion and shock durir	ig transportation,
The test equipmen The test results ap	nt used for calibration are traceable to Inte oply to the above Unit-Under-Test only	ernational System of Un	its (SI), or by reference	e to a natural const	ant.
	A	_	a second large	CAN	
Calibrated by	Elva Chong	Ар	proved by :	Kin Wong	
This Carlificate is inc.	0	Dat	e: 9-Jan-24	The second	
This Certificate is issued Hong Kong Calibration	Ltd.				
Unit 8B, 24/F., Well Fur Tel: 2425 8801 Fax 24	ng Industrial Centre, No. 58-76, Ta Chuen Ping Street,H 425 8646	kwai Chung, NT,Hong Kong.			
	tificate is a word by Users Kapa Calibratics Ltd., It may	, not be reproduced except in fu	11		E



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	± 0.4 dB

Uncertainty : $\pm 0.2 \text{ dB}$

 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	1.001	± 1 %

Uncertainty : \pm 3.6 x 10 ⁻⁶

4. Total Distortion + Noise : < 1.2 % 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 : 1 008 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	:	22/08/2024
<u>Sampler</u> Model Serial Number	:	TE-5170 S/N3640

Calibration Orifice and Stand	lard Calibration	Relationship
Serial Number	:	2454
Next Calibration Date	:	15 December 2024
Slope (m)	:	2.07544
Intercept (b)	:	-0.03205
Correlation Coefficient(r)	:	0.99999
<u>Standard Condition</u> Pstd (hpa) Tstd (K)	:	1013 298.18
Calibration Condition		
Pa (hpa)	:	1010
Ta(K)	:	303

Resi	stance Plate	dH [green liquid]	Ζ	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)		
1	18 holes	11.4	3.344	1.627	54	53.48
2	13 holes	9.0	2.971	1.447	49	48.53
3	10 holes	6.8	2.583	1.260	43	42.59
4	7 holes	4.5	2.101	1.028	35	34.66
5	5 holes	2.8	1.657	0.814	28	27.73

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):32.023

Intercept(b):1.849

Correlation Coefficient(r): 0.9994

Checked by: Magnum Fan

Date: 23/08/2024

ENVIROTECH SERVICES CO.

High-Volume TSP Sampler 5-Point Calibration Record

Location	:	AMS6(Dragonair Building)
Calibrated by	:	P.F.Yeung
Date	:	06/08/2024
<u>Sampler</u> Model Serial Number	:	TE-5170 S/N3641

Calibration Orifice and Standar	rd Calibratio	on 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)	:	1006
Ta(K)	:	307

Resi	stance Plate	dH [green liquid]	Ζ	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)		
1	18 holes	11.0	3.257	1.585	54	53.03
2	13 holes	8.3	2.829	1.379	48	47.13
3	10 holes	6.4	2.484	1.212	42	41.24
4	7 holes	3.8	1.914	0.938	34	33.39
5	5 holes	2.3	1.489	0.733	25	24.55

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

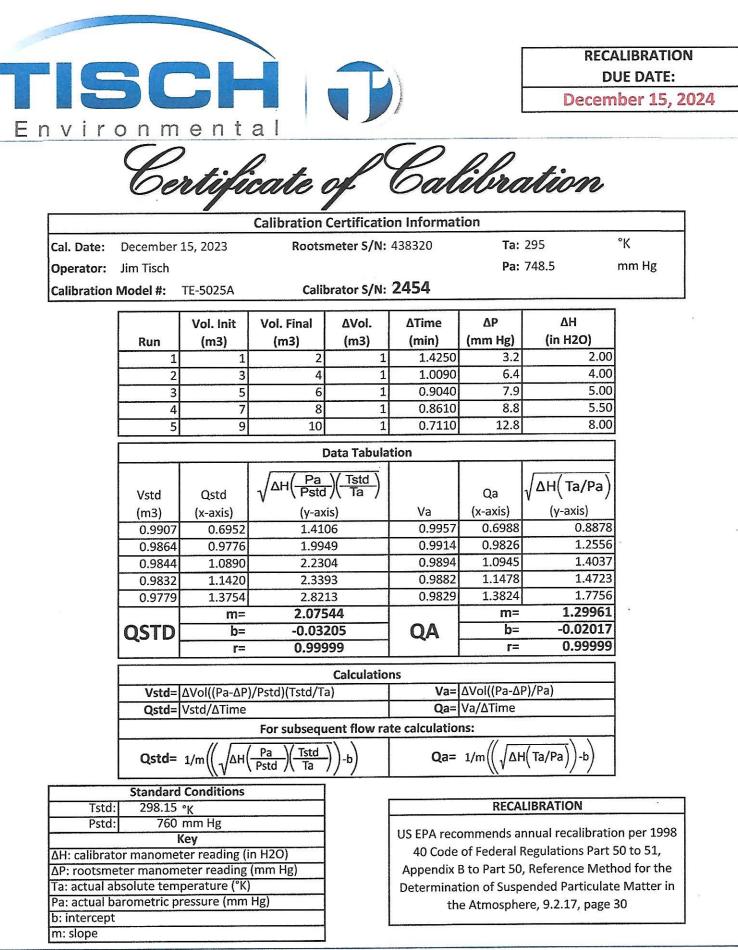
Sampler Calibration Relationship

Slope(m):32.954 Intercept(b):1.336

Correlation Coefficient(r): 0.9974

Checked by: <u>Magnum Fan</u>

Date: 07/08/2024



Tisch Environmental, Inc.

145 South Miami Avenue

Village of Cleves, OH 45002

<u>www.tisch-env.com</u> TOLL FREE: (877)263-7610 FAX: (513)467-9009



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 meterBrand Name:TSIModel No.:AM520Serial No.:5201735004Date of Calibration:20 October, 2023Date of Next Calibration :20 October, 2024

ISSUING ORGANISATION

Address

Enovative Environmental Service LimitedPhone:852-2242 1020Flat 23, 6/F, Block C, Goldfield Industrial CentreFax:852-3691 92401 Sui Wo RoadEmail:info@eno.com.hkShatin, N.T.Hong KongInfo@eno.com.hk

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Mr Wong Siu Ho, Thomas Manager

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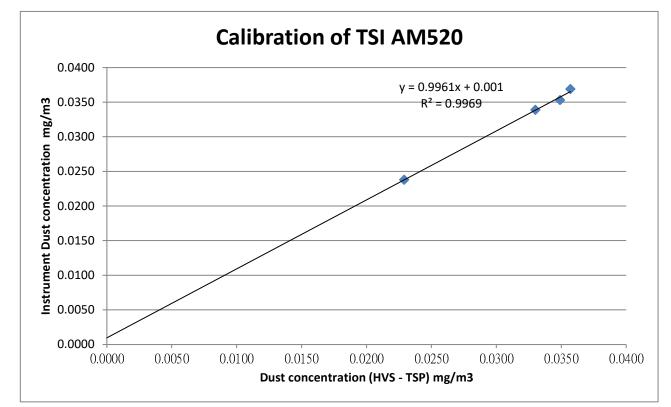


Brand Name:	TSI
Model No.:	AM520
Serial No.:	5201735004
HVS No.:	A12-TSP-102
Date of Calibration:	20 October, 2023
Date of next Calibration:	20 October, 2024

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

K Factor :	0.9961
Correlation Coefficient :	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.)

homas

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 meterBrand Name:TSIModel No.:AM520Serial No.:5202345003Date of Calibration:21 January, 2024Date of Next Calibration :21 January, 2025

ISSUING ORGANISATION

Address

Enovative Environmental Service LimitedPhone:852-2242 1020Flat 23, 6/F, Block C, Goldfield Industrial CentreFax:852-3691 92401 Sui Wo RoadEmail:info@eno.com.hkShatin, N.T.Hong KongImage: Shatin Sh

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Mr Wong Siu Ho, Thomas Manager

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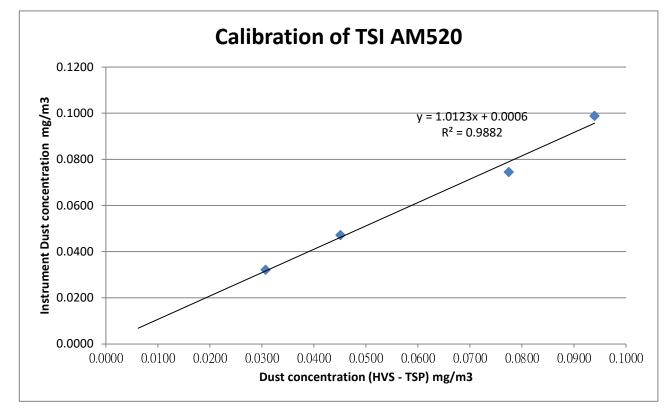


Brand Name:	TSI
Model No.:	AM520
Serial No.:	5202345003
HVS No.:	A12-TSP-102
Date of Calibration:	21 January, 2024
Date of next Calibration:	21 January, 2025

Calibration Record

HVS - TSP (mg/m3)	0.0940	0.0451	0.0775	0.0307
TSI AM520 (mg/m3)	0.0988	0.0472	0.0745	0.0321

K Factor :	1.0123
Correlation Coefficient :	0.9882



*** Filter paper being used in the calibration : 209603, 209604, 209605, 209606 Those filter papers are weighted by HOKLAS laboratory (ALS Technichem (HK) Pty Ltd.)

homas

Mr Wong Siu Ho, Thomas Manager



ALS Technichem (HK) Pty Ltd 11/F., Chung Shun Knitting Centre, 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: CLIENT:	W S CHAN AECOM ASIA COMPANY LIMITED	WORK ORDER:	HK2428528
ADDRESS:	1501-10, 15/F, TOWER 1,	SUB-BATCH:	0
	GRAND CENTRAL PLAZA,	LABORATORY:	HONG KONG
	138 SHATIN RURAL COMMITTEE ROAD,	DATE RECEIVED:	16-Jul-2024
	SHATIN, NEW TERRITORIES, HONG KONG	DATE OF ISSUE:	22-Jul-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 (Brant name, Model No., Serial No. and Equipment No.) is provided by client.Equipment Type:Multifunctional MeterService Nature:Performance CheckScope:Conductivity, Dissolved Oxygen, pH Value, Turbidity, Salinity and TemperatureBrand Name/ Model No.:[YSI]/ [6820 V2]Serial No./ Equipment No.:[00H1019]/ [W.026.09]Date of Calibration:16-July-2024

Ms. Lin Wai Yu, Iris Assistant Manager - Inorganics

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WORK ORDER:	HK2428528		4
SUB-BATCH: DATE OF ISSUE: CLIENT:	0 22-Jul-2024 AECOM ASIA COMPANY LIMITE	ED	
Equipment Type: Brand Name/ Model No.: Serial No./ Equipment No.: Date of Calibration:	Multifunctional Meter [YSI]/ [6820 V2] [00H1019]/ [W.026.09] 16-July-2024	Date of Next Calibration:	16-October-2024

PARAMETERS:

Conductivity Method Ref: APHA (23rd edition), 25108

Expected Reading (µS/cm)	Displayed Reading (µS/cm)	Tolerance (%)
146.9	151	+2.8
6667	7073	+6.1
12890	13057	+1.3
58670	60981	+3.9
	Tolerance Limit (%)	±10.0

Dissolved Oxygen

Method Ref: APHA (23rd edition), 45000: G

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)	
2.57	2.45	-0.12	
4.81	4.83	+0.02	
7.61	7.54	-0.07	
	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	4.04	+0.04	
7.0	6.94	-0.06	
10.0	9.95	-0.05	
	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 Assistant Manager - Inorganics



SUB-BATCH:0DATE OF ISSUE:22-Jul-2024CLIENT:AECOM ASIA COMPANY LIMITED

Brand Name/ Model No.: Serial No./ Equipment No.:	Multifunctional Meter [YSI]/ [6820 V2] [00H1019]/ [W.026.09] 16 July 2024	Date of Next Calibration:	16-October-2024
Date of Calibration:	16-July-2024	Date of Next Calibration:	16-October-2024

PARAMETERS:

Turbidity

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

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0	0.0	
4	4.2	+5.0
10	9.7	-3.0
20	18.9	-5.5
50	51.0	+2.0
100	100.8	+0.8
	Tolerance Limit (%)	±10.0

Salinity

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

Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)
0	0.01	
10	10.20	+2.0
20	20.09	+0.4
30	30.78	+2.6
	Tolerance Limit (%)	±10.0

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

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Ms. Lin Wai Yu, Iris Assistant Manager - Inorganics



WORK ORDER:	HK2428528		
SUB-BATCH: DATE OF ISSUE: CLIENT:	0 22-Jul-2024 AECOM ASIA COMPANY LIMITE	D	
Equipment Type: Brand Name/ Model No.: Serial No./ Equipment No.: Date of Calibration:	Multifunctional Meter [YSI]/ [6820 V2] [00H1019]/ [W.026.09] 16-July-2024	Date of Next Calibration:	16-October-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	10.33	+0.3
19.5	19.47	-0.0
37.5	37.18	-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.

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Ms. Lin Wai Yu, Iris Assistant Manager - Inorganics



ALS Technichem (HK) Pty Ltd 11/F., Chung Shun Knitting Centre, 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: CLIENT:	WS CHAN AECOM ASIA COMPANY LIMITED	WORK ORDER:	HK2421924
ADDRESS:	1501-10, 15/F, TOWER 1,	SUB-BATCH:	0
	GRAND CENTRAL PLAZA,	LABORATORY:	HONG KONG
	138 SHATIN RURAL COMMITTEE ROAD,	DATE RECEIVED:	04-Jun-2024
	SHATIN, NEW TERRITORIES, HONG KONG	DATE OF ISSUE:	12-Jun-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 (Bran	d 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:	04-June-2024

1:5

Ms. Lin Wai Yu, Iris Assistant Manager - Inorganics

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WORK ORDER:	HK2421924		
SUB-BATCH: DATE OF ISSUE: CLIENT:	0 12-Jun-2024 AECOM ASIA COMPANY LIMIT	ED	
Equipment Type: Brand Name/ Model No.:	Multifunctional Meter [YSI]/ [ProDSS]		
Serial No./ Equipment No.:	[22J104777/22H104506]/ [W.02	26.37]	
Date of Calibration:	04-June-2024	Date of Next Calibration:	04-September-2024

PARAMETERS:

Conductivity

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

Expected Reading (µS/cm)	Displayed Reading (µS/cm)	Tolerance (%)
146.9	144.6	-1.6
6667	6295	-5.6
12890	12187	-5.5
58670	53558	-8.7
	Tolerance Limit (%)	±10.0

Dissolved Oxygen

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

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
2.11	2.14	+0.03
4.54	4.58	+0.04
6.75	6.72	-0.03
	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	7.07	+0.07		
10.0	9.88	-0.12		
	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 Assistant Manager - Inorganics



WORK ORDER:	HK2421924		
SUB-BATCH: DATE OF ISSUE: CLIENT:	0 12-Jun-2024 AECOM ASIA COMPANY LIMIT	ED	
Equipment Type: Brand Name/ Model No.:	Multifunctional Meter [YSI]/ [ProDSS]		
Serial No./ Equipment No.:	[22J104777/22H104506]/ [W.02	26.37]	
Date of Calibration:	04-June-2024	Date of Next Calibration:	04-September-2024

PARAMETERS:

Turbidity

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

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0	0.00	
4	3.99	-0.2
10	9.98	-0.2
20	19.03	-4.8
50	47.38	-5.2
100	97.16	-2.8
	Tolerance Limit (%)	±10.0

Salinity

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

Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)
0	0.01	
10	9.96	-0.4
20	19.07	-4.7
30	29.02	-3.3
	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



WORK ORDER:	HK2421924		
SUB-BATCH: DATE OF ISSUE: CLIENT:	0 12-Jun-2024 AECOM ASIA COMPANY LIMIT	ED	
Equipment Type:	Multifunctional Meter		
Brand Name/ Model No.:	[YSI]/ [ProDSS]		
Serial No./ Equipment No.:	[22J104777/22H104506]/ [W.02	26.37]	
Date of Calibration:	04-June-2024	Date of Next Calibration:	04-September-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)			
10.5	10.3	-0.2		
21.0	21.6	+0.6		
37.5	37.0	-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.

Ms. Lin Wai Yu, Iris Assistant Manager - Inorganics



ALS Technichem (HK) Pty Ltd 11/F., Chung Shun Knitting Centre, 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: CLIENT:	MR WS CHAN AECOM ASIA COMPANY LIMITED	WORK ORDER:	HK2434907
ADDRESS:	1501-10, 15/F, TOWER 1,	SUB-BATCH:	0
	GRAND CENTRAL PLAZA,	LABORATORY:	HONG KONG
	138 SHATIN RURAL COMMITTEE ROAD,	DATE RECEIVED:	30-Aug-2024
	SHATIN, NEW TERRITORIES, HONG KONG	DATE OF ISSUE:	05-Sep-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:	30-August-2024

Man

Ms. Cheng Sin Ying, May Senior Chemist - Inorganics

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WORK ORDER:	HK2434907		
SUB-BATCH: DATE OF ISSUE: CLIENT:	0 05-Sep-2024 AECOM ASIA COMPANY LIMIT	ED	
Equipment Type: Brand Name/ Model No.:	Multifunctional Meter [YSI]/ [ProDSS]		
Serial No./ Equipment No.:	[22J104777/22H104506]/[W.02	26.37]	
Date of Calibration:	30-August-2024	Date of Next Calibration:	30-November-2024

PARAMETERS:

Conductivity

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

Expected Reading (µS/cm)	Displayed Reading (µS/cm)	Tolerance (%)
146.9	144.0	-2.0
6667	6410	-3.9
12890	12564	-2.5
58670	56626	-3.5
	Tolerance Limit (%)	±10.0

Dissolved Oxygen

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

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
1.72	1.75	+0.03
4.52	4.60	+0.08
7.18	7.32	+0.14
	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	4.12	+0.12	
7.0	6.99	-0.01	
10.0	9.95	-0.05	
	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:	HK2434907		
SUB-BATCH: DATE OF ISSUE: CLIENT:	0 05-Sep-2024 AECOM ASIA COMPANY LIMITE	ED	
Equipment Type: Brand Name/ Model No.:	Multifunctional Meter [YSI]/ [ProDSS]		
Serial No./ Equipment No.:	[22J104777/22H104506]/[W.02	26.37]	
Date of Calibration:	30-August-2024	Date of Next Calibration:	30-November-2024

PARAMETERS:

Turbidity

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

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0	0.05	
4	4.09	+2.3
10	10.51	+5.1
20	21.24	+6.2
50	51.64	+3.3
100	106.20	+6.2
	Tolerance Limit (%)	±10.0

Salinity

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

Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)
0	0.06	
10	10.03	+0.3
20	19.98	-0.1
30	30.50	+1.7
	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:	HK2434907			
SUB-BATCH: DATE OF ISSUE: CLIENT:	0 05-Sep-2024 AECOM ASIA COMPANY LIMITE	ED		
Equipment Type: Brand Name/ Model No.:	Multifunctional Meter [YSI]/ [ProDSS]			
Serial No./ Equipment No.:	[22J104777/22H104506]/[W.02	26.37]		
Date of Calibration:	30-August-2024	Date of Next Calibration:	30-November-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)
10.5	10.0	-0.5
19.5	19.0	-0.5
41.0	41.2	+0.2
	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