## Air Quality Monitoring Equipment



#### Sibata LD-5R K-Factor Verification Test by Total Suspended Particulates HVS Test Report

#### Information of Calibrated Equipement

Verification Test Date:	13-Sep-24	to	14-Sep-24	Next Verification Test Date:	12-Sep-25
Unit-under-Test- Model No.:		Sibata LD-5R		•	
Unit-under-Test Serial No.:		851816		•	
Our Report Refrence No.:	R	PT-23-HVS-00	67	•	
Calibration Location:	AM2, location near the Leachate Tre			eatment Works within the NENTX Landfill	

#### **Standard Equipment Information**

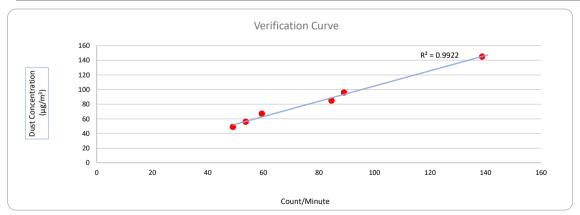
Verification Equipment Type:	Tisch TSP HVS	Tisch HVS Calibrator
Standard Equipment Model No.:	TE-5170X	TE-5025A
Equipment serial no.:	1106	3465
Last Calibration Date:	13-Sep-24	16-Jan-24
Next Calibration Date:	12-Sep-25	15-Jan-25

#### **Equipement Vertification Result**

Verification		Duration			Results from	Calibrated Equipement	Results from Standard Equipment	
Test No.	Date	Start-time	End-time	Elapsed Time (in min)	Total Counts	Counts/ Minute x-axis	Dust Concentration (μg/m³) y-axis	
1	28/11/23	8789.68	8792.68	180.00	16023	89	96	
2	28/11/23	8792.68	8795.68	180.00	15213	85	85	
3	28/11/23	8795.68	8798.68	180.00	8823	49	49	
4	30/11/23	8798.68	8801.68	180.00	10698	59	67	
5	30/11/23	8801.68	8804.68	180.00	24980	139	145	
6	30/11/23	8804.68	8807.68	180.00	9653	54	56	

#### Linear Regression of y on x





Operated By: Andy Li Date: 14-09-2024

Project Technician, Environmental

Checked By: Tandy Tse Date: 14-09-2024

Senior Consultant, Environmental



#### Sibata LD-5R K-Factor Verification Test by Total Suspended Particulates HVS Test Report

#### Information of Calibrated Equipement

Verification Test Date:	13-Sep-24	to	14-Sep-24	Next Verification Test Date:	12-Sep-25
Unit-under-Test- Model No.:		Sibata LD-5R			
Unit-under-Test Serial No.:		882106			
Our Report Refrence No.:	I	RPT-23-HVS-00	68	•	
Calibration Location:	AM2, location near the Leachate Tre			eatment Works within the NENTX Landfill	
-					_

#### **Standard Equipment Information**

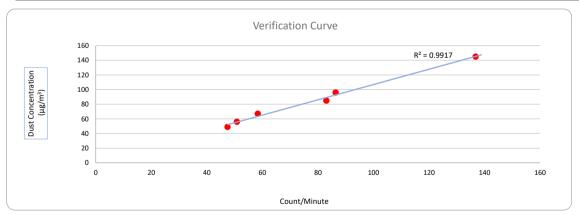
Verification Equipment Type:	Tisch TSP HVS	Tisch HVS Calibrator
Standard Equipment Model No.:	TE-5170X	TE-5025A
Equipment serial no.:	1106	3465
Last Calibration Date:	13-Sep-24	16-Jan-24
Next Calibration Date:	12-Sep-25	15-Jan-25

#### **Equipement Vertification Result**

Verification		Duration			Results from	Calibrated Equipement	Results from Standard Equipment	
Test No.	Date	Start-time	End-time	Elapsed Time (in min)	Total Counts	Counts/ Minute x-axis	Dust Concentration (μg/m³) y-axis	
1	28/11/23	8789.68	8792.68	180.00	15546	86	96	
2	28/11/23	8792.68	8795.68	180.00	14944	83	85	
3	28/11/23	8795.68	8798.68	180.00	8543	47	49	
4	30/11/23	8798.68	8801.68	180.00	10499	58	67	
5	30/11/23	8801.68	8804.68	180.00	24622	137	145	
6	30/11/23	8804.68	8807.68	180.00	9145	51	56	

#### Linear Regression of y on x





Operated By: Andy Li Date: 14-09-2024
Project Technician, Environmental

Checked By: Date: 14-09-2024

Senior Consultant, Environmental

## Noise Quality Monitoring Equipment

for

Description:

Sound Level Meter

Manufacturer:

**RION** 

Type No.:

NL-53 (Serial No.: 01130784)

Microphone:

UC-59 (Serial No.: 24908)

Preamplifier:

NH-25 (Serial No.:33675)

## Submitted by:

Customer:

Aurecon Hong Kong Limited

Address:

Unit 1608, 16/F, Tower B, Manulife Financial Centre,

223-231 Wai Yip Street, Kwun Tong,

Kowloon, Hong Kong

Upon receipt for calibration, the instrument was found to be:

Within (31.5Hz – 4kHz)

☐ Outside

the allowable tolerance.

The test equipment used for calibration are traceable to National Standards via:

The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory

Date of receipt: 26 February 2025

Date of calibration: 27 February 2025

Date of NEXT calibration: 26 February 2026

Calibrated by: 9

Calibration Technician

Certified by:

Mr. Ng Yan Wa Laboratory Manager

Date of issue: 27 February 2025

Certificate No.: APJ24-154-CC003



### 1. Calibration Precaution:

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 24 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- The results presented are the mean of 3 measurements at each calibration point.

## 2. Calibration Conditions:

Air Temperature:

25.8 °C

Air Pressure:

1006 hPa

Relative Humidity:

54.9 %

## 3. Calibration Equipment:

Type

Serial No.

Calibration Report Number

Traceable to

**Multifunction Calibrator** 

B&K 4226

2288467

AV240081

**HOKLAS** 

#### 4. Calibration Results

Sound Pressure Level

Reference Sound Pressure Level

Setting of Unit-under-test (UUT)			Appl	ied value	UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq. Weighting   Time Weighting		Level, dB	Frequency, Hz	dB	Specification, dB	
30-130	dBA	SPL	Fast	94	1000	94.0	±0.4

#### Linearity

Sett	ing of Un	it-under-t	est (UUT)	Appl	ied value	UUT Reading,	IEC 61672 Class 1
Range, dB	nge, dB Freq. Weighting		Time Weighting	Level, dB Frequency, Hz		dB	Specification, dB
				94		94.0	Ref
30-130	dBA	SPL	Fast	104	1000	104.0	±0.3
				114		114.0	±0.3

### Time Weighting

Setting of Unit-under-test (UUT)				Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. Weighting Time		Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
20.120	ID 4	CDI	Fast	94	1000	94.0	Ref
30-130	dBA	SPL	Slow	94	1000	94.0	±0.3

Certificate No.: APJ24-154-CC003

Page 2 of 4



#### Frequency Response

## Linear Response

Sett	ing of Unit	-under-t	est (UUT)	Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. Weighting		Time Weighting	Level, dB Frequency, Hz		dB	Specification, dB
					31.5	94.2	±2.0
				63	94.2	±1.5	
	ID ODI			125	94.2	±1.5	
20.120		CDI	Fast	94	250	94.1	±1.4
30-130	dB	B SPL		94	500	94.1	±1.4
					1000	94.0	Ref
					2000	93.7	±1.6
			·		4000	92.5	±1.6

## A-weighting

Sett	ing of Un	iit-under-t	est (UUT)	Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. Weighting		Time Weighting	Level, dB Frequency, Hz		dB	Specification, dB
					31.5	54.9	-39.4 ±2.0
			63	68.0	-26.2 ±1.5		
		з		125	78.0	-16.1 ±1.5	
20.120	175.4	A SPL	Fast	0.4	250	85.5	-8.6 ±1.4
30-130	dBA			94	500	90.8	-3.2 ±1.4
					1000	94.0	Ref
					2000	94.9	+1.2 ±1.6
					4000	93.5	+1.0 ±1.6

## C-weighting

Setti	ing of U	nit-under-t	est (UUT)	Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	Freq.	Weighting	Time Weighting	Level, dB Frequency, Hz		dB	Specification, dB
					31.5	91.2	$-3.0\pm2.0$
,				63	93.4	$-0.8 \pm 1.5$	
			Fast		125	94.0	-0.2 ±1.5
20.120	ID C	BC SPL		94	250	94.1	$-0.0\pm1.4$
30-130	aBC			94	500	94.1	$-0.0 \pm 1.4$
					1000	94.0	Ref
					2000	93.5	-0.2 ±1.6
			A.		4000	91.7	-0.8 ±1.6

Certificate No.: APJ24-154-CC003





## 5. Calibration Results Applied

The results apply to the particular unit-under-test only. All calibration points are within manufacture's specification as IEC 61672 Class 1.

Uncertainties of Applied Value:

94 dB	31.5 Hz	± 0.10
	63 Hz	± 0.05
	125 Hz	± 0.10
	250 Hz	± 0.05
	500 Hz	± 0.05
	1000 Hz	± 0.05
	2000 Hz	± 0.05
	4000 Hz	± 0.05
104 dB	1000 Hz	± 0.05
114 dB	1000 Hz	± 0.05

The uncertainties are evaluated for a 95% confidence level.

#### Note:

The values given in this certification only related to the values measured at the time of the calibration and any uncertainties quoted will not allow 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 calibration. (A+A)\*L shall not be liable for any loss or damage resulting from the use of the equipment.



for

Description:

Sound Level Meter

Manufacturer:

**RION** 

Type No.:

NL-53 (Serial No.: 01130783)

Microphone:

UC-59 (Serial No.: 25498)

Preamplifier:

NH-25 (Serial No.:33674)

## Submitted by:

Customer:

Aurecon Hong Kong Limited

Address:

Unit 1608, 16/F, Tower B, Manulife Financial Centre,

223-231 Wai Yip Street, Kwun Tong,

Kowloon, Hong Kong

Upon receipt for calibration, the instrument was found to be:

**☑** Within (31.5Hz – 4kHz)

☐ Outside

the allowable tolerance.

The test equipment used for calibration are traceable to National Standards via:

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory

Date of receipt: 26 February 2025

Date of calibration: 27 February 2025

Date of NEXT calibration: 26 February 2026

Calibrated by:

Calibration Technician

Certified by:

Mr. Ng Yan Wa Laboratory Manager

Date of issue: 27 February 2025

Certificate No.: APJ24-154-CC002

DAR TESTING LABORATOR

(A+A) \*L

SONOW # OIL

# Acoustics and Air Testing Laboratory Co. Ltd. 聲學及空氣測試實驗室有限公司

#### 1. Calibration Precaution:

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 24 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- The results presented are the mean of 3 measurements at each calibration point.

#### 2. Calibration Conditions:

Air Temperature:

25.8 °**C** 

Air Pressure:

1006 hPa

Relative Humidity:

54.9 %

## 3. Calibration Equipment:

Type

Serial No.

Calibration Report Number

Traceable to

**Multifunction Calibrator** 

B&K 4226

2288467

AV240081

**HOKLAS** 

### 4. Calibration Results

Sound Pressure Level

Reference Sound Pressure Level

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1	
Range, dB	Range, dB Freq. Weighting Time W		Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
30-130	dBA	SPL	Fast	94	1000	94.0	±0.4

#### Linearity

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq.	Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
				94		94.0	Ref
30-130	dBA SPL	SPL	Fast	104	1000	104.0	±0.3
			114		114.0	±0.3	

## Time Weighting

Sett	Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	nge, dB Freq. Weighting		Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
20, 120	ID.4	CDI	Fast	0.4	1000	94.0	Ref
30-130	dBA	SPL	Slow	94	1000	94.0	±0.3

Certificate No.: APJ24-154-CC002

(A+A) \*L Page 2 of 4



## Frequency Response

## Linear Response

Sett	Setting of Unit-under-test (UUT)				Applied value		IEC 61672 Class 1
Range, dB	Freq. Weighting		Time Weighting	Level, dB Frequency, Hz		dB	Specification, dB
					31.5	94.2	±2.0
				63	94.1	±1.5	
	dB SPL		T	0.4	125	94.1	±1.5
20.120		CDI			250	94.0	±1.4
30-130		Fast	94	500	94.0	±1.4	
					1000	94.0	Ref
				2000	93.6	±1.6	
					4000	92.5	±1.6

## A-weighting

Setti	Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. Weighting		Time Weighting	Level, dB Frequency, Hz		dB	Specification, dB
					31.5	54.7	-39.4 ±2.0
	*.		63	67.9	-26.2 ±1.5		
				125	78.0	-16.1 ±1.5	
20.120	ID A	CDI	Fast	94	250	85.4	-8.6 ±1.4
30-130	dBA	A SPL			500	90.8	-3.2 ±1.4
					1000	94.0	Ref
					2000	94.8	+1.2 ±1.6
					4000	93.5	$+1.0\pm1.6$

## C-weighting

Sett	Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. Weighting		Time Weighting	Level, dB Frequency, Hz		dB	Specification, dB
					31.5	91.2	-3.0 ±2.0
			63	93.3	-0.8 ±1.5		
			125	93.9	-0.2 ±1.5		
20.120	IDG		T .	94	250	94.1	$-0.0 \pm 1.4$
30-130	dBC	SPL	Fast		500	94.0	-0.0 ±1.4
					1000	94.0	Ref
					2000	93.4	-0.2 ±1.6
					4000	91.7	-0.8 ±1.6

Certificate No.: APJ24-154-CC002



Page 3 of 4



## 5. Calibration Results Applied

The results apply to the particular unit-under-test only. All calibration points are within manufacture's specification as IEC 61672 Class 1.

Uncertainties of Applied Value:

94 dB	31.5 Hz	± 0.10
2	63 Hz	± 0.10
	125 Hz	± 0.05
	250 Hz	± 0.05
	500 Hz	± 0.05
	1000 Hz	± 0.05
	2000 Hz	± 0.05
	4000 Hz	± 0.05
104 dB	1000 Hz	± 0.05
114 dB	1000 Hz	± 0.05

The uncertainties are evaluated for a 95% confidence level.

#### Note:

The values given in this certification only related to the values measured at the time of the calibration and any uncertainties quoted will not allow 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 calibration. (A+A)\*L shall not be liable for any loss or damage resulting from the use of the equipment.



Page 4 of 4

Description:

Sound Level Meter

Manufacturer:

RION

Type No.:

NL-53 (Serial No.: 01130785)

Microphone:

UC-59 (Serial No.: 25374)

Preamplifier:

NH-25 (Serial No.:33676)

## Submitted by:

Customer:

Aurecon Hong Kong Limited

Address:

Unit 1608, 16/F, Tower B, Manulife Financial Centre,

223-231 Wai Yip Street, Kwun Tong,

Kowloon, Hong Kong

Upon receipt for calibration, the instrument was found to be:

 $\checkmark$  Within (31.5Hz – 4kHz)

☐ Outside

the allowable tolerance.

The test equipment used for calibration are traceable to National Standards via:

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory

Date of receipt: 26 February 2025

Date of calibration: 27 February 2025

Date of NEXT calibration: 26 February 2026

Calibrated by:

Calibration Technician

Certified by:

Mr. Ng Yan Wa Laboratory Manager

Date of issue: 27 February 2025

Certificate No.: APJ24-154-CC001



#### 1. Calibration Precaution:

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 24 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- The results presented are the mean of 3 measurements at each calibration point.

### 2. Calibration Conditions:

Air Temperature:

25.8 °C

Air Pressure:

1006 **hPa** 

**Relative Humidity:** 

54.9 %

## 3. Calibration Equipment:

Type

Serial No.

Calibration Report Number

Traceable to

**Multifunction Calibrator** 

B&K 4226

2288467

AV240081

**HOKLAS** 

#### 4. Calibration Results

Sound Pressure Level

Reference Sound Pressure Level

Sett	Setting of Unit-under-test (UUT)			Appl	ied value	UUT Reading,	IEC 61672 Class 1
Range, dB	IB Freq. Weighting		Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
30-130	dBA	SPL	Fast	94	1000	94.0	±0.4

#### Linearity

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq.	Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
				94		94.0	Ref
30-130	dBA	SPL	Fast	104	1000	104.0	±0.3
				114		114.0	±0.3

### Time Weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1	
Range, dB	Range, dB Freq. Weighting		Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
20.120	10.4	CDI	Fast	0.4	1000	94.0	Ref
30-130 dBA S	SPL	Slow	94	1000	94.0	±0.3	

Certificate No.: APJ24-154-CC001

TESTING LABORATOR P

Page 2 of 4

## Frequency Response

## Linear Response

Sett	Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. Weighting		Time Weighting	Level, dB Frequency, Hz		dB	Specification, dB
			_ 10		31.5	94.3	±2.0
			63	94.1	±1.5		
		v		125	94.1	±1.5	
20.120	ID	CDI	Fast	94	250	94.1	±1.4
30-130	dB	dB SPL			500	94.0	±1.4
					1000	94.0	Ref
					2000	93.7	±1.6
					4000	92.6	±1.6

## A-weighting

Setting of Unit-under-test (UUT)		Applied value		UUT Reading,	IEC 61672 Class 1		
Range, dB	Freq. V	Veighting	Time Weighting	Level, dB	Level, dB Frequency, Hz		Specification, dB
					31.5	54.8	-39.4 ±2.0
	0-130 dBA SPL			63	68.0	-26.2 ±1.5	
30-130			Fast	94	125	78.0	-16.1 ±1.5
		CDI			250	85.4	-8.6 ±1.4
		SPL			500	90.8	-3.2 ±1.4
				1000	94.0	Ref	
				2000	94.9	$+1.2\pm1.6$	
					4000	93.6	+1.0 ±1.6

## C-weighting

Setting of Unit-under-test (UUT)		Applied value		UUT Reading,	IEC 61672 Class 1		
Range, dB	Freq. V	Veighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	91.2	$-3.0\pm2.0$
				63	93.3	$-0.8 \pm 1.5$	
30-130 dBC			F	0.4	125	93.9	-0.2 ±1.5
	dBC SPL	CDI			250	94.1	$-0.0\pm1.4$
		Fast	94	500	94.1	$-0.0\pm1.4$	
					1000	94.0	Ref
				2000	93.5	-0.2 ±1.6	
				N	4000	91.8	-0.8 ±1.6

Certificate No.: APJ24-154-CC001



## 5. Calibration Results Applied

The results apply to the particular unit-under-test only. All calibration points are within manufacture's specification as IEC 61672 Class 1.

Uncertainties of Applied Value:

94 dB	31.5 Hz	± 0.10
	63 Hz	± 0.10
	125 Hz	± 0.05
	250 Hz	± 0.05
	500 Hz	± 0.05
	1000 Hz	± 0.05
	2000 Hz	± 0.05
	4000 Hz	± 0.05
104 dB	1000 Hz	± 0.05
114 dB	1000 Hz	± 0.05

The uncertainties are evaluated for a 95% confidence level.

#### Note:

The values given in this certification only related to the values measured at the time of the calibration and any uncertainties quoted will not allow 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 calibration. (A+A)\*L shall not be liable for any loss or damage resulting from the use of the equipment.

Certificate No.: APJ24-154-CC001



for

Description:

Sound Level Calibrator

Manufacturer:

**RION** 

Type No.:

NC-75

Serial No.:

34724244

## Submitted by:

Customer:

Aurecon Hong Kong Limited

Address:

Unit 1608, 16/F, Tower B, Manulife Financial Centre,

223-231 Wai Yip Street, Kwun Tong,

Kowloon, Hong Kong

Upon receipt for calibration, the instrument was found to be:

**✓** Within

☐ Outside

the allowable tolerance.

The test equipments used for calibration are traceable to National Standards via:

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory

Date of receipt: 22 July 2024

Date of calibration: 24 July 2024

Date of NEXT calibration: 23 July 2025

Calibrated by:

Calibration Technician

Certified by:

Mr. Ng Yan Wa

Laboratory Manager

Date of issue: 24 July 2024

Certificate No.: APJ23-154-CC002



### 1. Calibration Precautions:

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 24 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- The results presented are the mean of 3 measurements at each calibration point.

## 2. Calibration Specifications:

Calibration check

#### 3. Calibration Conditions:

Air Temperature:	23.4 °C
Air Pressure:	1005 hPa
Relative Humidity:	56.7 %

## 4. Calibration Equipment:

Test Equipment	Type	Serial No.	Calibration Report Number	Traceable to
Multifunction Calibrator	B&K 4226	2288467	AV240081	HOKLAS
Sound Level Meter	RION NA-28	30721812	AV230128	HOKLAS

#### 5. Calibration Results

#### 5.1 Sound Pressure Level

Nominal value	Accept lower level	Accept upper level	Measured value
dB	dB	dB	dB
94.0	93.6	94.4	93.9

#### Note:

The values given in this certification only related to the values measured at the time of the calibration.



Certificate No.: APJ23-154-CC002

for

Description:

Sound Level Calibrator

Manufacturer:

RION

Type No.:

NC-75

Serial No.:

34724245

## Submitted by:

Customer:

Aurecon Hong Kong Limited

Address:

Unit 1608, 16/F, Tower B, Manulife Financial Centre,

223-231 Wai Yip Street, Kwun Tong,

Kowloon, Hong Kong

U	pon	receipt	for	calibration.	the	instrument	was	found	to	be:

Within

☐ Outside

#### the allowable tolerance.

The test equipments used for calibration are traceable to National Standards via:

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory

Date of receipt: 22 July 2024

Date of calibration: 24 July 2024

Date of NEXT calibration: 23 July 2025

Calibrated by:

Calibration Technician

Certified by:

Mr. Ng Yan Wa

Laboratory Manager

Date of issue: 24 July 2024

Certificate No.: APJ23-154-CC003



### 1. Calibration Precautions:

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 24 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- The results presented are the mean of 3 measurements at each calibration point.

## 2. Calibration Specifications:

Calibration check

#### 3. Calibration Conditions:

Air Temperature:	23.4°C
Air Pressure:	1005 <b>hPa</b>
Relative Humidity:	56.7 %

## 4. Calibration Equipment:

Test Equipment	Type	Serial No.	Calibration Report Number	Traceable to
Multifunction Calibrator	B&K 4226	2288467	AV240081	HOKLAS
Sound Level Meter	RION NA-28	30721812	AV230128	HOKLAS

#### 5. Calibration Results

#### 5.1 Sound Pressure Level

Nominal value	Accept lower level dB	Accept upper level	Measured value
dB		dB	dB
94.0	93.6	94.4	94.0

#### Note:

The values given in this certification only related to the values measured at the time of the calibration.



Certificate No.: APJ23-154-CC003

for

Description:

Sound Level Calibrator

Manufacturer:

RION

Type No.:

NC-75

Serial No.:

34524163

## Submitted by:

Customer:

Aurecon Hong Kong Limited

Address:

Unit 1608, 16/F, Tower B, Manulife Financial Centre,

223-231 Wai Yip Street, Kwun Tong,

Kowloon, Hong Kong

Upon receipt for calibration, the instrument was found to be:

**✓** Within

☐ Outside

the allowable tolerance.

The test equipments used for calibration are traceable to National Standards via:

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory

Date of receipt: 22 July 2024

Date of calibration: 24 July 2024

Date of NEXT calibration: 23 July 2025

Calibrated by:

Calibration Technician

Certified by:

Mr. Ng Yan Wa Laboratory Manager

Date of issue: 24 July 2024

Certificate No.: APJ24-010-CC001



### 1. Calibration Precautions:

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 24 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- The results presented are the mean of 3 measurements at each calibration point.

## 2. Calibration Specifications:

Calibration check

#### 3. Calibration Conditions:

Air Temperature:	23.4°C
Air Pressure:	1005 <b>hP</b> a
Relative Humidity:	56.7 %

## 4. Calibration Equipment:

Test Equipment	Type	Serial No.	Calibration Report Number	Traceable to
Multifunction Calibrator	B&K 4226	2288467	AV240081	HOKLAS
Sound Level Meter	RION NA-28	30721812	AV230128	HOKLAS

#### 5. Calibration Results

### 5.1 Sound Pressure Level

Nominal value	Accept lower level	Accept upper level	Measured value
dB	dB	dB	dB
94.0	93.6	94.4	93.9

#### Note:

The values given in this certification only related to the values measured at the time of the calibration.



Certificate No.: APJ24-010-CC001

## Water Quality Monitoring Equipment



## 專業化驗有限公司 OUALITY PRO TEST-CONSULT LIMITED

Unit 10, 5/F, Wah Wai Centre, 38-40 Au Pui Wan St., Fotan, Hong Kong Email:info@qualityprotest.com; Website: www.qualityprotest.com Tel: (852) 3956 8717; Fax: (852) 3956 3928

## REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No.

: R-BE030347

Date of Issue

: 03 April 2025

Page No.

: 1 of 2

#### PART A - CUSTOMER INFORMATION

Acuity Sustainability Consulting Limited

Unit 1608, 16/F, Tower B, Manulife Fin. Centre 223 - 231 Wai Yip Street, Kwun Tong,

Kowloon (HK) Hong Kong

#### PART B - SAMPLE INFORMATION

Name of Equipment:

YSI ProDSS (Multi Parameters)

Manufacturer:

YSI

Serial Number:

22D100436

Date of Received:

31 March 2025

Date of Calibration:

01 April 2025

Date of Next Calibration:

30 June 2025

Request No.:

D-BE030347

#### PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

**Test Parameter** 

Reference Method

pH value

APHA 21e 4500-H+ B

Temperature

Section 6 of international Accreditation New Zealand Technical Guide no. 3 Second edition March 2008: Working

Thermometer Calibration Procedure

Dissolved oxygen

APHA 23e 4500-O G (Membrane Electrode Method)

Salinity

APHA 21e 2520 B

Turbidity

APHA 21e 2130 B (Nephelometric Method)

#### PART D - CALIBRATION RESULT

#### (1) pH value

Target ( pH unit )	Display Reading ( pH unit )	Tolerance (pH unit)	Result
4.00	4.16	0.16	Satisfactory
7.42	7.50	0.08	Satisfactory
10.01	10.07	0.06	Satisfactory

Tolerance of pH value should be less than  $\pm 0.2$  (pH unit)

#### (2) Temperature

Reading of Ref. thermometer (°C)	Display Reading	Tolerance	Result
9.7	9.9	0.2	Satisfactory
19.5	19.4	-0.1	Satisfactory
32.3	31.7	-0.6	Satisfactory

Tolerance of Temperature should be less than ± 2.0 (°C)

#### (3) Dissolved oxygen

Expected Reading ( mg/L )	Display Reading ( mg/L )	Tolerance ( mg/L )	Result
9.28	9.36	0.08	Satisfactory
6.21	6.08	-0.13	Satisfactory
3.32	3.16	-0.16	Satisfactory
0.01	0.12	0.11	Satisfactory

Tolerance of Dissolved oxygen should be less than  $\pm 0.5$  ( mg/L )

--- CONTINUED ON NEXT PAGE ---

AUTHORIZED SIGNATORY:

FUNG Yuen-ching Laboratory Manager



## 專業化驗有限公司 QUALITY PRO TEST-CONSULT LIMITED

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: R-BE030347

**Date of Issue** 

: 03 April 2025

Page No.

: 2 of 2

#### PART D - CALIBRATION RESULT

#### (4) Salinity

Expected Reading (g/L)	Display Reading (g/L)	Tolerance (%)	Result
10	9.77	-2.3	Satisfactory
20	19.59	-2.05	Satisfactory
30	29.31	-2.3	Satisfactory

Tolerance of Salinity should be less than ± 10.0 (%)

#### (5) Turbidity

Expected Reading (NTU)	Display Reading (NTU)	Tolerance (a) (%)	Result
0	0.17		Satisfactory
10	10.76	7.6	Satisfactory
20	19.14	-4.3	Satisfactory
100	94.58	-5.42	Satisfactory
800	732.96	-8.38	Satisfactory

Tolerance of Turbidity should be less than  $\pm 10.0$  (%)

#### Remark(s): -

- The "Date of Next Calibration" is recommended according to best practice principles followed by QPT or relevant international standards.
- The results relate only to the calibrated equipment as received.
- The performance of the equipment stated in this report is checked using independent reference material, with results compared against a calibrated secondary source. "Displayed Reading" denotes the figure shown on the item under calibration/checking, regardless of equipment precision or significant figures.
- The "Tolerance Limit" mentioned is the acceptance criteria applicable to similar equipment used by Quality Pro Test-Consult Ltd. or quoted from relevant international standards.

--- END OF REPORT ---

<sup>(</sup>a) For O NTU, Display Reading should be less than 1 NTU