



Information of Calibrated Equipement

Verification Test Date:	1-Mar-23	to	2-Mar-23	Next Verification Test Date:	1-Mar-24
Unit-under-Test- Model No.:		Sibata LD-5R		_	
Unit-under-Test Serial No.:		0Z4545		_	
Our Report Refrence No.:	F	PT-23-HVS-000)2	_	
Calibration Location:	Er			Emax	
-					•

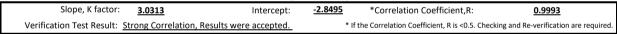
Standard Equipment Information

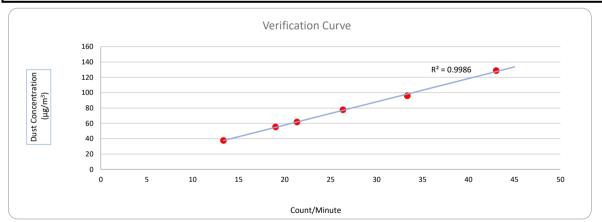
Verification Equipment Type:	Tisch TSP HVS	Tisch HVS Calibrator
Standard Equipment Model No.:	TE-5170X	TE-5025A
Equipment serial no.:	1086	3465
Last Calibration Date:	1-Mar-23	28-Jun-22
Next Calibration Date:	30-Apr-23	27-Jun-23

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	1/3/2023	5013.27	5016.34	184.20	4851	26	78
2	1/3/2023	5016.34	5019.34	180.00	6000	33	96
3	1/3/2023	5019.34	5022.34	180.00	7740	43	129
4	2/3/2023	5022.34	5025.34	180.00	3840	21	62
5	2/3/2023	5025.34	5028.34	180.00	2400	13	38
6	2/3/2023	5028.34	5031.34	180.00	3420	19	55

Linear Regression of y on x





Operated By: Andy Li Date: 05-03-2023

Project Technician, Environmental

Checked By: Tandy Tse Date: 05-03-2023

Senior Consultant, Environmental





Information of Calibrated Equipement

Verification Test Date:	1-Mar-23	to	2-Mar-23	Next Verification Test Date:	1-Mar-24
Unit-under-Test- Model No.:		Sibata LD-5R		_	
Unit-under-Test Serial No.:		882106		_	
Our Report Refrence No.:	F	PT-23-HVS-000	08	_	
Calibration Location:	E			 Emax	
_					-

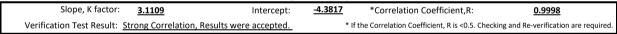
Standard Equipment Information

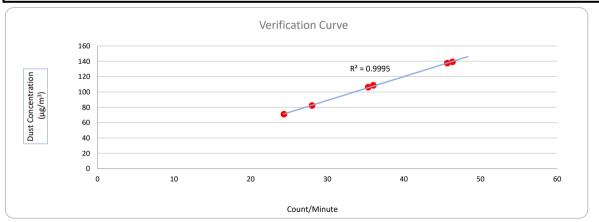
Verification Equipment Type:	Tisch TSP HVS	Tisch HVS Calibrator
Standard Equipment Model No.:	TE-5170X	TE-5025A
Equipment Serial no.:	1087	3465
Last Calibration Date:	1-Mar-23	28-Jun-22
Next Calibration Date:	30-Apr-23	27-Jun-23

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	1/3/2023	5013.27	5016.34	184.20	8535	46	139
2	1/3/2023	5016.34	5019.34	180.00	6480	36	109
3	1/3/2023	5019.34	5022.34	180.00	8220	46	137
4	2/3/2023	5022.34	5025.34	180.00	5040	28	82
5	2/3/2023	5025.34	5028.34	180.00	4380	24	71
6	2/3/2023	5028.34	5031.34	180.00	6360	35	106

Linear Regression of y on x





Operated By: Andy Li Date: 05-03-2023

Project Technician, Environmental

Checked By: Tandy Tse Date: 05-03-2023

Senior Consultant, Environmental





Information of Calibrated Equipement

Verification Test Date:	1-Mar-23	to	2-Mar-23	Next Verification Test Date:	1-Mar-24
Unit-under-Test- Model No.:		Sibata LD-5R		_	
Unit-under-Test Serial No.:		942532		_	
Our Report Refrence No.:	F	PT-23-HVS-000	05	_	
Calibration Location:	E			 Emax	
_					-

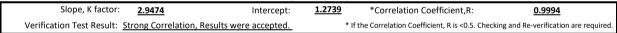
Standard Equipment Information

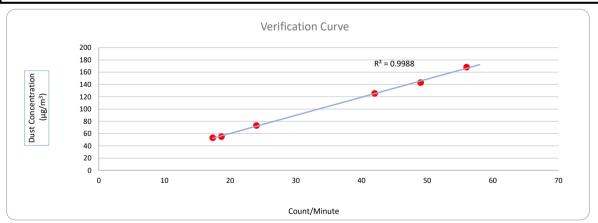
Verification Equipment Type:	Tisch TSP HVS	Tisch HVS Calibrator
Standard Equipment Model No.:	TE-5170X	TE-5025A
Equipment Serial no.:	1855	3465
Last Calibration Date:	1-Mar-23	28-Jun-22
Next Calibration Date:	30-Apr-23	27-Jun-23

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	1/3/2023	5013.27	5016.34	184.20	7736	42	125
2	1/3/2023	5016.34	5019.34	180.00	8820	49	143
3	1/3/2023	5019.34	5022.34	180.00	10080	56	168
4	2/3/2023	5022.34	5025.34	180.00	3120	17	53
5	2/3/2023	5025.34	5028.34	180.00	3360	19	55
6	2/3/2023	5028.34	5031.34	180.00	4320	24	73

Linear Regression of y on x





Operated By: Andy Li Date: 05-03-2023

Project Technician, Environmental

Checked By: Tandy Tse Date: 05-03-2023

Senior Consultant, Environmental



Information of Calibrated Equipement

Verification Test Date:	28-Nov-23	to	30-Nov-23	Next Verification Test Date:	28-Nov-24
Unit-under-Test- Model No.:		Sibata LD-5R		-	
Unit-under-Test Serial No.:		851816		-	
Our Report Refrence No.:	F	RPT-23-HVS-00	67	-	
Calibration Location:	AM2, location near the Leachate Tre			eatment Works within the NENTX Landfill	
-					=

Standard Equipment Information

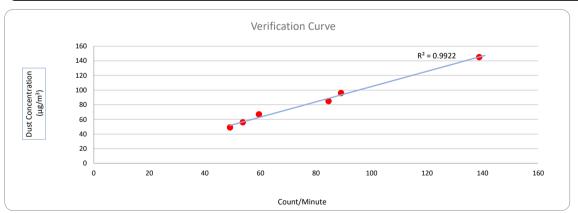
-			
	Verification Equipment Type:	Tisch TSP HVS	Tisch HVS Calibrator
	Standard Equipment Model No.:	TE-5170X	TE-5025A
	Equipment serial no.:	1106	4166
	Last Calibration Date:	4-Nov-23	19-Jun-23
	Next Calibration Date:	3-Jan-24	19-Jun-24

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	28/11/2023	8789.68	8792.68	180.00	16023	89	96
2	28/11/2023	8792.68	8795.68	180.00	15213	85	85
3	28/11/2023	8795.68	8798.68	180.00	8823	49	49
4	30/11/2023	8798.68	8801.68	180.00	10698	59	67
5	30/11/2023	8801.68	8804.68	180.00	24980	139	145
6	30/11/2023	8804.68	8807.68	180.00	9653	54	56

Linear Regression of y on x





Operated By:

Andy Li

Project Technician, Environmental

Date: 30-11-2023

Checked By: Tandy Tse Date: 30-11-2023

Senior Consultant, Environmental



Information of Calibrated Equipement

28-Nov-23	to	30-Nov-24	Next Verification Test Date:	28-Nov-24
	Sibata LD-5R			
	882150			
RP	T-23-HVS-00	70		
AM2, lo	ocation near	the Leachate Tre	atment Works within the NENTX Landfill	
2	RP	Sibata LD-5R 882150 RPT-23-HVS-00	Sibata LD-5R 882150 RPT-23-HVS-0070	Sibata LD-5R 882150

Standard Equipment Information

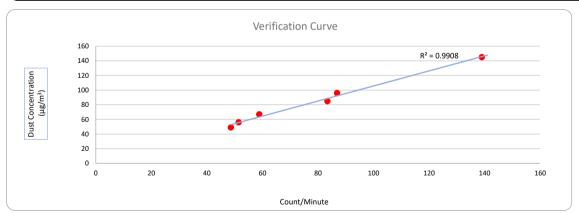
Verification Equipment Type:	Tisch TSP HVS	Tisch HVS Calibrator
Standard Equipment Model No.:	TE-5170X	TE-5025A
Equipment serial no.:	1106	4166
Last Calibration Date:	4-Nov-23	19-Jun-23
Next Calibration Date:	3-Jan-24	19-Jun-24

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	28/11/2023	8789.68	8792.68	180.00	15634	87	96	
2	28/11/2023	8792.68	8795.68	180.00	15012	83	85	
3	28/11/2023	8795.68	8798.68	180.00	8753	49	49	
4	30/11/2023	8798.68	8801.68	180.00	10587	59	67	
5	30/11/2023	8801.68	8804.68	180.00	25017	139	145	
6	30/11/2023	8804.68	8807.68	180.00	9256	51	56	

Linear Regression of y on x





Operated By:

Andy Li

Project Technician, Environmental

Date: 30-11-2023

Checked By: Tandy Tse Date: 30-11-2023

Senior Consultant, Environmental

Certificate of Calibration

for

Description:

Sound Level Calibrator

Manufacturer:

RION

Type No.:

NC-75

Serial No.:

34724245

Submitted by:

Customer:

Acuity Sustainability Consulting Limited

Address:

Unit E, 12/F, Ford Glory Plaza,

Nos. 37-39 Wing Hong Street,

Cheung Sha Wan, 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: 27 July 2023

Date of calibration: 3 August 2023

Date of NEXT calibration: 2 August 2024

Calibrated by:____

Calibration Technician

Certified by:

Mr. Ng Yan Wa Laboratory Manager

Date of issue: 3 August 2023

Certificate No.: APJ23-049-CC003

(**A+A) *L**) Page 1 of 2



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:	22.6°C
Air Pressure:	1006 hP a
Relative Humidity:	52.9 %

4. Calibration Equipment:

Test Equipment	Type	Serial No.	Calibration Report Number	Traceable to
Multifunction Calibrator	B&K 4226	2288467	AV220061	HOKLAS
Sound Level Meter	RION NA-28	30721812	AV220120	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	94.0

Note:

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

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Certificate No.: APJ23-049-CC003

Page 2 of 2

Certificate of Calibration

Description:

Sound Level Meter

Manufacturer:

NTi Audio

Type No.:

XL2 (Serial No.: A2A-09696-E0)

Microphone:

ACO 7052 (Serial No.:68914)

Preamplifier:

NTi Audio MA220 (Serial No.:10390)

Submitted by:

Customer:

Acuity Sustainability Consulting Limited

Address:

Unit E, 12/F, Ford Glory Plaza,

Nos. 37-39 Wing Hong Street,

Cheung Sha Wan, 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: 30 March 2023

Date of calibration: 04 April 2023

Date of NEXT calibration: 03 April 2024

Calibration Technician

Certified by:

Mr. Ng Yan Wa Laboratory Manager

Date of issue: 04 April 2023

Certificate No.: APJ22-164-CC002

E-mail: inquiry@aa-lab.com

Page 1 of 4

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:

21.5 °C

Air Pressure:

1005 hPa

Relative Humidity:

71.4 %

3. Calibration Equipment:

Type

Serial No.

Calibration Report Number

Traceable to

Multifunction Calibrator

B&K 4226

2288467

AV220061

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. V	Veighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
30-130	dBA	SPL	Fast	94	1000	94.1	±0.4

Linearity

Setting of Unit-under-test (UUT)			Appl	lied value	UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
				94		94.1	Ref
30-130	dBA	SPL	Fast	104	1000	104.1	±0.3
				114		114.1	±0.3

Time Weighting

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	
30-130	dBA	SPL	Fast	94	1000	94.1	Ref
30-130	dBA SPL Slow		94	1000	94.1	±0.3	

Certificate No.: APJ22-164-CC002

(A+A) *L Page 2 of 4



Frequency Response

Linear Response

Setting of Unit-under-test (UUT)				Appl	ied value	UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. We	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	94.3	±2.0
					63	94.3	±1.5
					125	94.3	±1.5
30-130	dB	SPL	Fast	94	250	94.2	±1.4
30-130	db	SFL	Tast	94	500	94.2	±1.4
					1000	94.1	Ref
					2000	93.8	±1.6
					4000	93.1	±1.6

A-weighting

Sett	ing of Uni	it-under-t	est (UUT)	Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	55.0	-39.4 ±2.0
			63	68.2	-26.2 ±1.5		
			Fast	94	125	78.2	-16.1 ±1.5
30-130	dBA SPL	SPL			250	85.6	-8.6 ±1.4
30-130	UDA	SIL			500	91.0	-3.2 ±1.4
					1000	94.1	Ref
					2000	95.0	+1.2 ±1.6
					4000	94.1	$+1.0\pm1.6$

C-weighting

Setting of Unit-under-test (UUT)				Appl	Applied value		IEC 61672 Class 1
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	91.3	-3.0 ±2.0
					63	93.5	-0.8 ± 1.5
					125	94.1	-0.2 ± 1.5
30-130	dBC	SPL	Fast	94	250	94.2	-0.0 ± 1.4
30-130	ubc	51 L	Tast	34	500	94.2	-0.0 ± 1.4
					1000	94.1	Ref
					2000	93.6	-0.2 ±1.6
					4000	92.3	-0.8 ± 1.6

Certificate No.: APJ22-164-CC002



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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	± 0.15
	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.



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