<u>High-Volume TSP Sampler</u> 5-Point Calibration Record

Location : AM1(ICC)
Calibrated by : K.T.Ho
Date : 04/12/2019

Sampler

Model : TE-5170 Serial Number : S/N 0767

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454

Service Date : 25 February 2019

 Slope (m)
 : 2.07076

 Intercept (b)
 : -0.02917

 Correlation Coefficient(r)
 : 1.00000

Standard Condition

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

Calibration Condition

Pa (hpa) : 1023 Ta(K) : 292

Resistance Plate		dH [green liquid]	Z	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	11.4	3.428	1.669	58	58.88
2	13 holes	8.5	2.960	1.443	46	46.70
3	10 holes	6.6	2.608	1.274	42	42.64
4	7 holes	4.6	2.177	1.066	30	30.46
5	5 holes	2.8	1.699	0.834	18	18.27

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

Sampler Calibration Relationship

Checked by: _____ Date: <u>07/12/2019</u>

Magnum Fan

<u>High-Volume TSP Sampler</u> <u>5-Point Calibration Record</u>

Location : AM1(ICC)
Calibrated by : K.T.Ho
Date : 20/01/2020

Sampler

 Model
 :
 TE-5170

 Serial Number
 :
 S/N 0767

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454

Service Date : 25 February 2019

 Slope (m)
 : 2.07076

 Intercept (b)
 : -0.02917

 Correlation Coefficient(r)
 : 1.00000

Standard Condition

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

Calibration Condition

Pa (hpa) : 1019 Ta(K) : 293

Resistance Plate		dH [green liquid]	Z	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	11.2	3.385	1.649	58	58.67
2	13 holes	8.2	2.896	1.413	50	50.57
3	10 holes	6.2	2.519	1.230	42	42.48
4	7 holes	4.4	2.122	1.039	32	32.37
5	5 holes	2.6	1.631	0.802	20	20.23

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):45.930 Intercept(b): -15.468 Correlation Coefficient(r): 0.9960

Checked by: _____ Date: <u>21/01/2020</u>

Magnum Fan

<u>High-Volume TSP Sampler</u> <u>5-Point Calibration Record</u>

Location : AM2B (Gammon Office)

 Calibrated by
 :
 K.T.Ho

 Date
 :
 20/11/2019

<u>Sampler</u>

Model : TE-5170 Serial Number : S/N 8919

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454

Service Date : 25 February 2019

 Slope (m)
 : 2.07076

 Intercept (b)
 : -0.02917

 Correlation Coefficient(r)
 : 1.00000

Standard Condition

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

Calibration Condition

Pa (hpa) : 1023 Ta(K) : 292

Resistance Plate		dH [green liquid]	Z	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	12.6	3.604	1.754	62	62.94
2	13 holes	9.4	3.113	1.517	50	50.76
3	10 holes	7.2	2.724	1.330	40	40.61
4	7 holes	4.6	2.177	1.066	34	34.52
5	5 holes	3.0	1.758	0.863	22	22.33

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):47.432 Intercept(b):-18.850 Correlation Coefficient(r): 0.9950

Checked by: Date: 23/11/2019

Magnum Fan

<u>High-Volume TSP Sampler</u> <u>5-Point Calibration Record</u>

Location : AM2B (Gammon Office)

Calibrated by : K.T.Ho
Date : 20/01/2020

<u>Sampler</u>

Model : TE-5170 Serial Number : S/N 8919

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454

Service Date : 25 February 2019

 Slope (m)
 : 2.07076

 Intercept (b)
 : -0.02917

 Correlation Coefficient(r)
 : 1.00000

Standard Condition

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

Calibration Condition

Pa (hpa) : 1019 Ta(K) : 293

Resistance Plate		dH [green liquid]	Z	X=Qstd	IC	Y
ļ.		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	12.4	3.562	1.734	62	62.71
2	13 holes	9.0	3.034	1.479	56	56.64
3	10 holes	6.4	2.559	1.250	46	46.53
4	7 holes	4.2	2.073	1.015	32	32.37
5	5 holes	2.2	1.500	0.739	22	22.25

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

Sampler Calibration Relationship

Slope(m):42.777 Intercept(b):-9.089 Correlation Coefficient(r): 0.9910

Checked by: Date: 21/01/2020

Magnum Fan



RECALIBRATION
DUE DATE:

February 25, 2020

Certificate of Calibration

Calibration Certification Information

Cal. Date: February 25, 2019

Rootsmeter S/N: 438320

Ta: 294

°K

Operator: Jim Tisch

Pa: 762.0

mm Hg

Calibration Model #: TE-5025A

Calibrator S/N: 2454

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.4400	3.2	2.00
2	3	4	1	1.0200	6.4	4.00
3	5	6	1	0.9120	7.9	5.00
4	7	8	1	0.8700	8.8	5.50
5	9	10	1	0.7180	12.8	8.00

Data Tabulation									
Vstd Qstd (m3) (x-axis)		$\sqrt{\Delta H\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)}$ (y-axis)	Va	Qa (x-axis)	$\sqrt{\Delta H \left(\text{Ta/Pa} \right)}$ (y-axis)				
1.0120	0.7028	1.4257	0.9958	0.6915	0.8784				
1.0077	0.9880	2.0162	0.9916	0.9722	1.2423				
1.0057	1.1028	2.2542	0.9896	1.0851	1.3889				
1.0045	1.1546	2.3642	0.9885	1.1362	1.4567				
0.9992	1.3916	2.8513	0.9832	1.3694	1.7569				
	m= 2.07076			m=	1.29667				
QSTD	b=	-0.02917	QA	b=	-0.01797				
40.0	r=	1.00000		r=	1.00000				

	Calculation		
Vstd=	ΔVol((Pa-ΔP)/Pstd)(Tstd/Ta)	Va= ΔVol((Pa-ΔP)/P	a)
Qstd=	Vstd/∆Time	Qa= Va/ΔTime	
	For subsequent flow rat	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((√ΔH(Ta	n/Pa))-b)

	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	
m: clone	

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

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



SUB-CONTRACTING REPORT

HK1907876 WORK ORDER CONTACT : MR K.W. FAN

: ENVIROTECH SERVICES CO. **CLIENT**

ADDRESS : RM113, 1/F, MY LOFT, 9 HOI WING ROAD, TUEN MUN, N.T. HONG SUB-BATCH : 1

> : 22-FEB-2019 DATE RECEIVED **KONG**

DATE OF ISSUE : 7-MAR-2019

PROJECT NO. OF SAMPLES : 1

> CLIENT ORDER : ----

General Comments

Sample(s) were received in ambient condition.

Sample(s) analysed and reported on as received basis.

Calibration was subcontracted to and analysed by Action United Enviro Services.

Signatories

This document has been signed by those names that appear on this report and are the authorised signatories

Signatories **Position**

Richard Fung General Manager

This is the Final Report and supersedes any preliminary report with this batch number.

Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

: HK1907876 WORK ORDER

SUB-BATCH

: 1 : ENVIROTECH SERVICES CO. CLIENT

PROJECT



ALS Lab Client's Sample ID		Sample	Sample Date	External Lab Report No.
ID		Туре		
HK1907876-001	S/N: 456668	Equipments	22-Feb-2019	S/N: 456668

Equipment Verification Report (TSP)

Equipment Calibrated:

Type: Laser Dust monitor

Manufacturer: Sibata LD-3B

Serial No. 456668

Equipment Ref: Nil

Job Order HK1907876

Standard Equipment:

Standard Equipment: Higher Volume Sampler

Location & Location ID: AUES office (calibration room)

Equipment Ref: HVS 018

Last Calibration Date: 12 February 2019

Equipment Verification Results:

Testing Date: 4 March 2019

Hour	Time	Mean Temp °C	Mean Pressure (hPa)	Concentration in mg/m³ (Standard Equipment)	Total Count (Calibrated Equipment)	Count/Minute (Total Count/min)
2hr13min	09:10 ~ 11:23	20.9	1013.7	0.035	2659	20.0
2hr01min	11:30 ~ 13:31	20.9	1013.7	0.026	2241	18.5
2hr01min	13:40 ~ 15:41	20.9	1013.7	0.041	2688	22.3

Linear Regression of Y or X

Slope (K-factor): 0.0017

Correlation Coefficient 0.9826

Date of Issue 7 March 2019

0.04 0.035 0.03 0.03 0.025 0.02 0.015 0.01 0.01 0.01 0.005 0.01 0.005 0.01 0.005 0.01 0.005 0.01 0.005 0.01 0.005 0.01 0.005 0.01 0.005 0.01 0.005 0.01 0.005 0.01 0.005 0.01

Remarks:

- 1. **Strong** Correlation (R>0.8)
- 2. Factor 0.0017 should be applied for TSP monitoring

*If R<0.5, repair or re-verification is required for the equipment

Operator : Fai So Signature : Date : 7 March 2019

QC Reviewer : Ben Tam Signature : Date : 7 March 2019

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



SUB-CONTRACTING REPORT

HK1907875 WORK ORDER CONTACT : MR K.W. FAN

: ENVIROTECH SERVICES CO. **CLIENT**

ADDRESS : RM113, 1/F, MY LOFT, 9 HOI WING ROAD, TUEN MUN, N.T. HONG SUB-BATCH : 1

> : 22-FEB-2019 DATE RECEIVED **KONG**

DATE OF ISSUE : 7-MAR-2019

PROJECT NO. OF SAMPLES : 1

> CLIENT ORDER : ----

General Comments

Sample(s) were received in ambient condition.

Sample(s) analysed and reported on as received basis.

Calibration was subcontracted to and analysed by Action United Enviro Services.

Signatories

This document has been signed by those names that appear on this report and are the authorised signatories

Signatories **Position**

Richard Fung

General Manager

This is the Final Report and supersedes any preliminary report with this batch number.

Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

: HK1907875 WORK ORDER

SUB-BATCH

: 1 : ENVIROTECH SERVICES CO. CLIENT

PROJECT



ALS Lab Client's Sample ID		Sample	Sample Date	External Lab Report No.
ID		Туре		
HK1907875-001	S/N: 276019	Equipments	22-Feb-2019	S/N: 276019

Equipment Verification Report (TSP)

Equipment Calibrated:

Type: Laser Dust monitor

Manufacturer: Sibata LD-3B

Serial No. 276019

Equipment Ref: Nil

Job Order HK1907875

Standard Equipment:

Standard Equipment: Higher Volume Sampler

Location & Location ID: AUES office (calibration room)

Equipment Ref: HVS 018

Last Calibration Date: 12 February 2019

Equipment Verification Results:

Testing Date: 4 March 2019

Hour	Time	Mean Temp °C	Mean Pressure (hPa)	Concentration in mg/m³ (Standard Equipment)	Total Count (Calibrated Equipment)	Count/Minute (Total Count/min)
2hr13min	09:10 ~ 11:23	20.9	1013.7	0.035	2699	20.3
2hr01min	11:30 ~ 13:31	20.9	1013.7	0.026	2235	18.4
2hr01min	13:40 ~ 15:41	20.9	1013.7	0.041	2723	22.6

Linear Regression of Y or X

Slope (K-factor): 0.0017

Correlation Coefficient 0.9851

Date of Issue 7 March 2019

0.045 0.04 0.035 0.03 0.025 0.02 0.015 0.01 0.005 0 5 10 15 20 25

Remarks:

1. **Strong** Correlation (R>0.8)

2. Factor 0.0017 should be applied for TSP monitoring

*If R<0.5, repair or re-verification is required for the equipment

Operator : ______ Fai So ____ Signature : ______ Date : ____7 March 2019

QC Reviewer : Ben Tam Signature : Date : 7 March 2019

Certificate of Calibration

for

Description:

Sound Level Meter

Manufacturer:

RION

Type No.:

NL-52 (Serial No.: 00175561)

Microphone:

UC-53A (Serial No.: 99995)

Preamplifier:

NH-25 (Serial No.:65663)

Submitted by:

Customer:

Envirotech Services Co.

Address:

Rm.113, 1/F., My Loft, 9 Hoi Wing Road,

Tuen Mun, N.T., Hong Kong.

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

Within

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: 24 September 2019

Date of calibration: 26 September 2019

Calibrated by:

Certified by:

Mr. Ng Yan Wa Laboratory Manager

Date of issue: 26 September 2019

Page 1 of 4



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:

24.1 °**C**

Air Pressure:

1006 hPa

Relative Humidity:

54.2 %

3. Calibration Equipment:

Type

Serial No.

Calibration Report Number

Traceable to

Multifunction Calibrator

B&K 4226

2288467

AV180064

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	Freq. V	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. V	Veighting	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		114.1	±0.3

Time Weighting

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

Certificate No.: APJ19-095-CC001

Page 2 of 4

Room 422,Leader Industrial Centre,57-59 Au Pui Wan Street ,Fo Tan, Shatin,N.T.,Hong Kong
Tel: (852) 2668 3423 Fax:(852) 2668 6946
Homepage: http://www.aa-lab.com E-mail: inquiry@aa-lab.com



Frequency Response

Linear Response

Setting of Unit-under-test (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	94.3	±2.0
					63	94.2	±1.5
					125	94.1	±1.5
					250	94.0	±1.4
30-130	dB	SPL	Fast	94	500	94.0	±1.4
	11 12 1 1				1000	94.0	Ref
					2000	93.9	±1.6
				- 10 10 c	4000	93.7	±1.6
					8000	91.9	+2.1; -3.1

A-weighting

Setting of Unit-under-test (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	55.2	-39.4 ±2.0
					63	68.0	-26.2 ±1.5
					125	78.0	-16.1±1.5
					250	85.4	-8.6±1.4
30-130	dBA	SPL	Fast	94	500	90.8	-3.2±1.4
					1000	94.0	Ref
					2000	95.1	+1.2±1.6
					4000	94.7	+1.0±1.6
					8000	90.9	-1.1+2.1; -3.1

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	91.3	-3.0±2.0
					63	93.4	-0.8 ±1.5
			N 11 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		125	93.9	-0.2 ±1.5
					250	94.0	-0.0±1.4
30-130	dBC	SPL	Fast	94	500	94.0	-0.0±1.4
					1000	94.0	Ref
					2000	93.8	-0.2±1.6
					4000	92.9	-0.8±1.6
					8000	89.0	-3.0 +2.1: -3.1

Certificate No.: APJ19-095-CC001



Page 3 of 4

Homepage: http://www.aa-lab.com

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	± 0.10
	250 Hz	± 0.05
	500 Hz	± 0.10
	1000 Hz	± 0.05
	2000 Hz	± 0.05
	4000 Hz	± 0.10
	8000 Hz	± 0.10
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.

(A+A) *L

Page 4 of 4



輝創工程有限公司

Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration

校正證書

Certificate No.:

Date of Receipt / 收件日期: 17 May 2019

C192695

證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號: IC19-0995)

Precision Acoustic Calibrator

Description / 儀器名稱 Manufacturer / 製造商

LARSON DAVIS

Model No./型號

Serial No. / 編號

CAL200 11333

Supplied By / 委託者

Envirotech Services Co.

Room 113, 1/F, My Loft, 9 Hoi Wing Road, Tuen Mun,

New Territories, Hong Kong

TEST CONDITIONS/測試條件

Temperature / 溫度

 $(23 \pm 2)^{\circ}$ C

Relative Humidity / 相對濕度 :

 $(50 \pm 25)\%$

Line Voltage / 電壓:

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期

26 May 2019

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only.

The results do not exceed manufacturer's specification.

The results are detailed in the subsequent page(s).

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

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- The Bruel & Kjaer Calibration Laboratory, Denmark
- Agilent Technologies / Keysight Technologies
- Fluke Everett Service Center, USA

Tested By 測試

HT Wong

Technical Officer

Certified By

Lee Engineer Date of Issue 簽發日期

29 May 2019

核證

written approval of this laboratory 本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗所書面批准。

Sun Creation Engineering Limited - Calibration & Testing Laboratory c/o 4/F, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong

輝創工程有限公司一校正及檢測實驗所

c/o 香港新界屯門興安里一號四樓 Tel/電話: (852) 2927 2606

Fax/傳真: (852) 2744 8986

E-mail/電郵: callab(a suncreation.com

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior

Page 1 of 2 Website/網址: www.suncreation.com



輝創工程有限公司

Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration

校正證書

Certificate No.:

C192695

證書編號

1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours before the commencement of the test.

2. The results presented are the mean of 3 measurements at each calibration point.

3. Test equipment:

Equipment ID CL130 CL281

TST150A

<u>Description</u>

Universal Counter
Multifunction Acoustic Calibrator

Measuring Amplifier

Certificate No.

C183775 CDK1806821 C181288

4. Test procedure: MA100N.

5. Results:

5.1 Sound Level Accuracy

UUT Naminal Valua	Measured Value	Mfr's Spec.	Uncertainty of Measured Value (dB)
Nominal Value 94 dB, 1 kHz	(dB) 93.8	± 0.2	± 0.2
114 dB, 1 kHz	113.8	2 0.2	- 0.2

5.2 Frequency Accuracy

UUT Nominal Value (kHz)	Measured Value (kHz)	Mfr's Spec.	Uncertainty of Measured Value (Hz)
1	1.000	1 kHz ± 1 %	± 1

Remark: The uncertainties are for a confidence probability of not less than 95 %.

Note:

Only the original copy or the laboratory's certified true copy is valid.

The values given in this 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 environment changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Sun Creation Engineering Limited 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 the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗所書面批准。