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

 Location
 :
 AM1 (ICC)

 Calibrated by
 :
 K. T. Ho

 Date
 :
 20/01/2021

Sampler

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

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454

Service Date : 18 February 2020

 Slope (m)
 : 2.07134

 Intercept (b)
 : -0.04091

 Correlation Coefficient(r)
 : 0.99999

Standard Condition

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

Calibration Condition

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

Resi	Resistance Plate dH [green liquid]		Z	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	11.2	3.385	1.654	58	58.67
2	13 holes	8.2	2.896	1.418	50	50.57
3	10 holes	6.2	2.519	1.236	42	42.48
4	7 holes	4.4	2.122	1.044	32	32.37
5	5 holes	2.6	1.631	0.807	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 (Linear Regression)

Slope(m):45.943 Intercept(b):-15.729 Correlation Coefficient(r): 0.9960

Checked by: Magnum Fan Date: 25/01/2021

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

Location : AM2B(Gammon Office)

Calibrated by : K. T. Ho
Date : 20/01/2021

Sampler

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

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454

Service Date : 18 February 2020

 Slope (m)
 : 2.07134

 Intercept (b)
 : -0.04091

 Correlation Coefficient(r)
 : 0.99999

Standard Condition

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

Calibration Condition

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

Resi	Resistance Plate dH [green liquid]		Z	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)	(chart)	(corrected)
1	18 holes	12.4	3.562	1.739	60	60.69
2	13 holes	9.0	3.034	1.485	54	54.62
3	10 holes	6.4	2.559	1.255	45	45.52
4	7 holes	4.2	2.073	1.021	32	32.37
5	5 holes	2.2	1.500	0.744	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 (Linear Regression)

Slope(m):40.342 Intercept(b):-7.287 Correlation Coefficient(r): 0.9919

Checked by: Magnum Fan Date: 25/01/2021



RECALIBRATION DUE DATE:

February 18, 2021

Cal. Date: February 18, 2020

Calibration Model #: TE-5025A

Rootsmeter S/N: 438320

Ta: 294 Pa: 753.1

Operator: Jim Tisch

Calibrator S/N: 2454

mm Hg

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.4190	3.2	2.00
7	3	4	-1	1.0100	6.4	4.00
2	7	6	1	0.9020	7.9	5.00
A	2	8	1	0.8600	8.8	5.50
	7	10	1	0.7110	12.7	8.00

		Data Tabulat	ion			
Vstd (m3)	Qstd (x-axis)	Vanis)	Va	Qa (x-anis)	√∆H(Ta/Pa) (y-axis)	
1.0001	0.7048	1.4173	0.9958	0.7017	0.8836	
0.9959	0.9860	2.0044	0.9915	0.9817	1.2496	
0.9939	1.1019	2.2410	0.9895	1.0970	1.3971	
0.9927	1.1543	2.3504	0.9883	1.1497	1.4553	
0.9875	1.3889		0.9831	1.3828	1.7672	
9/20/2	mi	2 2 2 2 2 2 2		m=	1.29704	
QSTD	ba	- Control of the Cont	QA	b≪	-0.02551	
COID	F=	2 2 5 5 5 5 D		f#	0.99999	

Calculation			
Vstd+ &Vol((Pa-AP)/Pstd)(Tstd/Ta)	Va= AVoIIIPa-API/Pa)		
Qstid= Vstd/ATime	Qa= Va/STime		
For subsequent flow ra	te calculations:		
Qstd= $1/m\left(\left(\sqrt{\Delta H\left(\frac{Pa}{Pstd}\left(\frac{Tstd}{Ta}\right)\right)} \cdot b\right)$	Qa= 1/m((\sqrt{\DH(Ta/Pa}))-b		

	Standard Conditions
Tste	298.15 °K
Patel	760 mm Hg
diameter Control	Key
	manometer reading (in H2O)
AP rootsmet	er manometer reading (mm Hg)
fac actual abo	plute temperature ("K)
Paractual had	ometric pressure (mm Hg)
ic intercept	
m slape	

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 Vitage of Cleves, OH 45002

www.tiach-env.com TOLL FREE: (877)263-7610 FAX: (513)467-9009





RECALIBRATION **DUE DATE:**

January 28, 2022

Pertificate o

Calibration Certification Information

Cal. Date: January 28, 2021

Rootsmeter S/N: 438320

Ta: 294

°K

Operator: Jim Tisch Calibration Model #:

TE-5025A

Calibrator S/N: 2454

Pa: 763.5

mm Hg

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.4540	3.2	2.00
2	3	4	1	1.0210	6.4	4.00
3	5	6	1	0.9110	8.0	5.00
4	7	8	1	0.8730	8.8	5.50
5	9	10	1	0.7200	12.9	8.00

	Data Tabulation							
Vstd	Qstd	$\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right) \left(\frac{Tstd}{Ta}\right)}$		Qa	√∆H(Ta/Pa)			
(m3)	(x-axis) (y-axis)		Va	(x-axis)	(y-axis)			
1.0140	0.6974	1.4271	0.9958	0.6849	0.8776			
1.0098	0.9890	2.0182	0.9916	0.9712	1.2411			
1.0076	1.1061	2.2564	0.9895	1.0862	1.3875			
1.0066	1.1530	2.3666	0.9885	1.1323	1.4553			
1.0011	1.3904	2.8542	0.9831	1.3654	1.7551			
	m=	2.06072		m=	1.29039			
QSTD	b=	-0.01465	QA	b=	-0.00901			
	r=	0.99993		r=	0.99993			

	Calculation	ons				
Vstd=	ΔVol((Pa-ΔP)/Pstd)(Tstd/Ta)	Va=	ΔVol((Pa-ΔP)/Pa)			
Qstd=	Vstd/∆Time	Qa=	Qa= Va/ΔTime			
	For subsequent flow ra	ate calculatio	ns:			
Qstd= $1/m \left(\sqrt{\Delta H \left(\frac{Pa}{Pstd} \right) \left(\frac{Tstd}{Ta} \right)} \right) - b $ Qa= $1/m \left(\sqrt{\Delta H \left(Ta/Pa \right)} \right) - b $						

Standard Conditions						
Tstd:	298.15 °K					
Pstd:	760 mm Hg					
	Key					
	or manometer reading (in H2O)					
	ter 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

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

CONTACT : MR K.W. FAN WORK ORDER : HK2045301

CLIENT : ENVIROTECH SERVICES CO.

ADDRESS : RM113, 1/F, MY LOFT, 9 HOI WING ROAD, SUB-BATCH : 1

TUEN MUN, N.T. HONG KONG

DATE RECEIVED : 24-NOV-2020

DATE OF ISSUE : 30-NOV-2020

PROJECT : --- NO. OF SAMPLES : 1

CLIENT ORDER :---

General Comments

 Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in ambient condition. The result(s) related only to the item(s) tested.

- Sample information (Project name, Sample ID, Sampling date/time, etc., if any) is provided by client.
- 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

Managing Director

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

All pages of this report have been checked and approved for release.

: HK2045301 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		
HK2045301-001	S/N: 245833	Equipments	24-Nov-2020	S/N: 245833

Equipment Verification Report (TSP)

Equipment Calibrated:

Type: Laser Dust monitor

Manufacturer: Sibata LD-3B

Serial No. 245833

Equipment Ref: Nil

Job Order HK2045301

Standard Equipment:

Standard Equipment: Higher Volume Sampler (TSP)

Location & Location ID: AUES office (calibration room)

Equipment Ref: HVS 018

Last Calibration Date: 8 October 2020

Equipment Verification Results:

Verification Date: 26 November 2020

Hour	Time	Mean Temp °C	Mean Pressure (hPa)	Concentration in mg/m³ (Standard Equipment)	Total Count (Calibrated Equipment)	Count/Minute (Total Count/min)
2hr01min	09:18 ~ 11:19	24.0	1019.3	0.041	4525	37.3
2hr	11:22 ~ 13:22	24.0	1019.3	0.034	3430	28.6
2hr01min	13:25 ~ 15:26	24.0	1019.3	0.044	5196	42.9

0.05 0.045

0.04

0.035

0.025

0.015

0.01 0.005 y = 0.0011x + 0.0011

 $R^2 = 0.9865$

20

Linear Regression of Y or X

Slope (K-factor): 0.0011

Correlation Coefficient 0.9932

Date of Issue 30 November 2020

Remarks:

- 1. **Strong** Correlation (R>0.8)
- 2. Factor 0.0011 should be applied for TSP monitoring

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

Operator : _____ Fai So Signature : _____ Date : ____ 30 November 2020

QC Reviewer : Ben Tam Signature : Date : 30 November 2020

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group





SUB-CONTRACTING REPORT

CONTACT : MR K.W. FAN WORK ORDER : HK2045304

CLIENT : ENVIROTECH SERVICES CO.

ADDRESS : RM113, 1/F, MY LOFT, 9 HOI WING ROAD, SUB-BATCH : 1

TUEN MUN, N.T. HONG KONG

DATE RECEIVED : 24-NOV-2020

DATE OF ISSUE : 30-NOV-2020

PROJECT : --- NO. OF SAMPLES : 1

CLIENT ORDER :---

General Comments

 Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in ambient condition. The result(s) related only to the item(s) tested.

- Sample information (Project name, Sample ID, Sampling date/time, etc., if any) is provided by client.
- 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

Managing Director

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

All pages of this report have been checked and approved for release.

: HK2045304 WORK ORDER

SUB-BATCH

: 1 : ENVIROTECH SERVICES CO. CLIENT

PROJECT



ALS Lab	Client's Sample ID	_	Sample Date	External Lab Report No.
ID		Туре		
HK2045304-001	S/N: 276015	Equipments	24-Nov-2020	S/N: 276015

Equipment Verification Report (TSP)

Equipment Calibrated:

Type: Laser Dust monitor

Manufacturer: Sibata LD-3B

Serial No. 276015

Equipment Ref: Nil

Job Order HK2045304

Standard Equipment:

Standard Equipment: Higher Volume Sampler (TSP)

Location & Location ID: AUES office (calibration room)

Equipment Ref: HVS 018

Last Calibration Date: 8 October 2020

Equipment Verification Results:

Verification Date: 26 November 2020

Hour	Time	Mean Temp °C	Mean Pressure (hPa)	Concentration in mg/m³ (Standard Equipment)	Total Count (Calibrated Equipment)	Count/Minute (Total Count/min)
2hr01min	09:18 ~ 11:19	24.0	1019.3	0.041	4541	37.5
2hr	11:22 ~ 13:22	24.0	1019.3	0.034	3443	28.7
2hr01min	13:25 ~ 15:26	24.0	1019.3	0.044	5211	43.0

Linear Regression of Y or X

Slope (K-factor): 0.0011

Correlation Coefficient 0.9933

Date of Issue 30 November 2020

0.05 0.045 0.04 0.035 0.03 0.025 0.02 y = 0.0011x + 0.0011 0.015 $R^2 = 0.9867$ 0.01 0.005 0 10 20 40 50

Remarks:

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

2. Factor 0.0011 should be applied for TSP monitoring

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

Operator : _____ Fai So Signature : _____ Date : ____ Date : ____ 30 November 2020

QC Reviewer : Ben Tam Signature : Date : 30 November 2020



Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No.:

C203822

證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號: IC20-1389)

Date of Receipt / 收件日期: 30 June 2020

Description / 儀器名稱

Sound Level Meter

Manufacturer / 製造商

Rion

Model No. / 型號 Serial No./編號

NL-52 01010406

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

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

9 July 2020

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
- Agilent Technologies / Keysight Technologies
- Fluke Everett Service Center, USA
- The Bruel & Kjaer Calibration Laboratory, Denmark

Tested By

測試

K P Cheuk

Assistant Engineer

Certified By 核證

Lee

Date of Issue 簽發日期

10 July 2020

The test equipment used for calibration is traceable to the National 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。

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 - 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@suncreation.com Website/網址: www.suncreation.com



Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No.:

C203822

證書編號

1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours, and switched on to warm up for over 10 minutes before the commencement of the test.

- 2. Self-calibration was performed before the test.
- 3. The results presented are the mean of 3 measurements at each calibration point.
- 4. Test equipment:

Equipment ID

Description

Certificate No.

CL280

40 MHz Arbitrary Waveform Generator

C200258

CL281

Multifunction Acoustic Calibrator

CDK1806821

- 5. Test procedure: MA101N.
- 6. Results:
- 6.1 Sound Pressure Level
- 6.1.1 Reference Sound Pressure Level

20.00	UUT	Setting		Applie	d Value	UUT	IEC 61672
Range (dB)	Function	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	Reading (dB)	Class 1 Spec. (dB)
30 - 130	L _A	A	Fast	94.00	1	93.8	± 1.1

6.1.2 Linearity

	UU'	T Setting		Applied	d Value	UUT
Range (dB)	Function	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	Reading (dB)
30 - 130	L_A	A	Fast	94.00	1	93.8 (Ref.)
				104.00		103.9
				114.00		113.8

IEC 61672 Class 1 Spec. : \pm 0.6 dB per 10 dB step and \pm 1.1 dB for overall different.

6.2 Time Weighting

UUT Setting			Applied Value		UUT	IEC 61672	
Range (dB)	Function	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	Reading (dB)	Class 1 Spec. (dB)
30 - 130	L_A	A	Fast	94.00	1	. 93.8	Ref.
			Slow			93.8	± 0.3

The test equipment used for calibration is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

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Tel/電話: (852) 2927 2606



Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No.: C203822

證書編號

6.3 Frequency Weighting

6.3.1 A-Weighting

	UUT Setting			Applied Value		UUT	IEC 61672
Range (dB)	Function	Frequency Weighting	Time Weighting	Level (dB)	Freq.	Reading (dB)	Class 1 Spec. (dB)
30 - 130	L _A	A	Fast	94.00	63 Hz	67.5	-26.2 ± 1.5
					125 Hz	77.6	-16.1 ± 1.5
					250 Hz	85.1	-8.6 ± 1.4
					500 Hz	90.6	-3.2 ± 1.4
					1 kHz	93.8	Ref.
					2 kHz	95.1	$+1.2 \pm 1.6$
					4 kHz	94.9	$+1.0 \pm 1.6$
					8 kHz	92.8	-1.1 (+2.1; -3.1)
					12.5 kHz	89.4	-4.3 (+3.0; -6.0)

6.3.2 C-Weighting

	UUT Setting				ied Value	UUT	IEC 61672
Range (dB)	Function	Frequency Weighting	Time Weighting	Level (dB)	Freq.	Reading (dB)	Class 1 Spec. (dB)
30 - 130	L _C	C	Fast	94.00	63 Hz	92.9	-0.8 ± 1.5
					125 Hz	93.6	-0.2 ± 1.5
					250 Hz	93.8	0.0 ± 1.4
					500 Hz	93.8	0.0 ± 1.4
					1 kHz	93.8	Ref.
					2 kHz	93.7	-0.2 ± 1.6
					4 kHz	93.0	-0.8 ± 1.6
					8 kHz	90.9	-3.0 (+2.1; -3.1)
					12.5 kHz	87.5	-6.2 (+3.0; -6.0)

The test equipment used for calibration is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

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Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No.:

C203822

證書編號

Remarks: - UUT Microphone Model No.: UC-59 & S/N: 04871

- Mfr's Spec. : IEC 61672 Class 1

- Uncertainties of Applied Value : 94 dB : 63 Hz - 125 Hz : \pm 0.35 dB

 $\begin{array}{lll} 250 \ Hz - 500 \ Hz & : \pm 0.30 \ dB \\ 1 \ kHz & : \pm 0.20 \ dB \\ 2 \ kHz - 4 \ kHz & : \pm 0.35 \ dB \\ 8 \ kHz & : \pm 0.45 \ dB \\ 12.5 \ kHz & : \pm 0.70 \ dB \end{array}$

104 dB : 1 kHz : \pm 0.10 dB (Ref. 94 dB) 114 dB : 1 kHz : \pm 0.10 dB (Ref. 94 dB)

- 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 is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

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Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校下證書

:

Certificate No.:

C202843

證書編號

' ITEM TESTED / 送檢項目 (Job No. / 序引編號: IC20-1013)

Date of Receipt / 收件日期: 12 May 2020

Description / 儀器名稱

Precision Acoustic Calibrator

Manufacturer / 製造商

LARSON DAVIS

Model No. / 型號

CAL200

Serial No. / 編號

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 / 測試規節

Calibration check

DATE OF TEST / 測試日期

23 May 2020

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

Assistant Engineer

Certified By

核證

KC Lee Engineer

Date of Issue

25 May 2020

簽發日期

The test equipment used for calibration is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory

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Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration

Certificate No.: C202843

證書編號

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 Description

Universal Counter

Multifunction Acoustic Calibrator

Measuring Amplifier

Certificate No.

C193756 CDK1806821 C201309

4. Test procedure: MA100N.

5. Results:

5.1 Sound Level Accuracy

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

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.

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