

High-Volume TSP Sampler
5-Point Calibration Record

Location : AI(Kennedy Town)
Calibrated by : K.T.Ho
Date : 21/08/08

Sampler
Model : GMWS-2310 ACCU-VOL
Serial Number : S/N 9315

Calibration Office and Standard Calibration Relationship

Serial Number : CM-AIR-43
Service Date : 10 July 2008
Slope (m) : 0.056389
Intercept (b) : -0.025123
Correlation Coefficient(r) : 0.999909

Standard Condition

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

Calibration Condition

Pa (hpa) : 1012
Ta(K) : 302

Resistance Plate	dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC (indicated flow)	Y
1 18 holes	9.8	3.117	1.578	52	51.8
2 13 holes	7.0	2.634	1.336	43	42.8
3 10 holes	4.7	2.158	1.099	35	34.8
4 7 holes	3.7	1.915	0.977	30	29.9
5 5 holes	2.0	1.408	0.724	22	21.9

Sampler Calibration Relationship

Slope(m): 35.12 Intercept(b): -3.8481 Correlation Coefficient(r): 0.9994

Checked by: Magnum Fan

Date: 22/08/08

High-Volume TSP Sampler
5-Point Calibration Record

Location : AI (Kennedy Town)
Calibrated by : K.T.Ho
Date : 21/10/08

Sampler

Model : GMWS-2310 ACCU-VOL
Serial Number : S/N 9315

Calibration Office and Standard Calibration Relationship

Serial Number : CM-AIR-43
Service Date : 10 July 2008
Slope (m) : 0.056389
Intercept (b) : -0.025123
Correlation Coefficient(r) : 0.999909

Standard Condition

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

Calibration Condition

Pa (hpa) : 1011
Ta(K) : 299

IC (Indicated flow) : 38 cfm

Actual flow : 1.19 m³/min

Checked by: Magnum Fan

Date: 23/10/08

High-Volume TSP Sampler
5-Point Calibration Record

Location : A2a
 Calibrated by : K.T.Ho (Kennedy Town)
 Date : 21/08/08

Sampler
 Model : GMWS-2310 ACCU-VOL
 Serial Number : S/N 9048

Calibration Office and Standard Calibration Relationship

Serial Number : CM-AIR-43
 Service Date : 10 July 2008
 Slope (m) : 0.056389
 Intercept (b) : -0.025123
 Correlation Coefficient(r) : 0.999909

Standard Condition

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

Calibration Condition

Pa (hpa) : 1012
 Ta(K) : 302

Resistance Plate	dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC	Y
1 18 holes	10.3	3.178	1.608	57	56.4
2 13 holes	8.0	2.800	1.420	50	49.5
3 10 holes	6.0	2.426	1.232	43	42.3
4 7 holes	4.0	1.980	1.010	34	33.7
5 5 holes	2.2	1.469	0.754	25	24.8

Sampler Calibration Relationship

Slope(m): 37.396 Intercept(b): -3.668 Correlation Coefficient(r): 0.9998

Checked by: Magnum Fan

Date: 22/08/08

High-Volume TSP Sampler
5-Point Calibration Record

Location : A2a
Calibrated by : K.T.Ho (Kennedy Town)
Date : 21/10/08

Sampler

Model : GMWS-2310 ACCU-VOL
Serial Number : S/N 9048

Calibration Office and Standard Calibration Relationship

Serial Number : CM-AIR-43
Service Date : 10 July 2008
Slope (m) : 0.056389
Intercept (b) : -0.025123
Correlation Coefficient(r) : 0.999909

Standard Condition

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

Calibration Condition

Pa (hpa) : 1011
Ta(K) : 299

IC (Indicated flow) : 40 cfm

Actual flow : 1.17 m³/min

Checked by: Magnum Fan

Date: 23/10/08

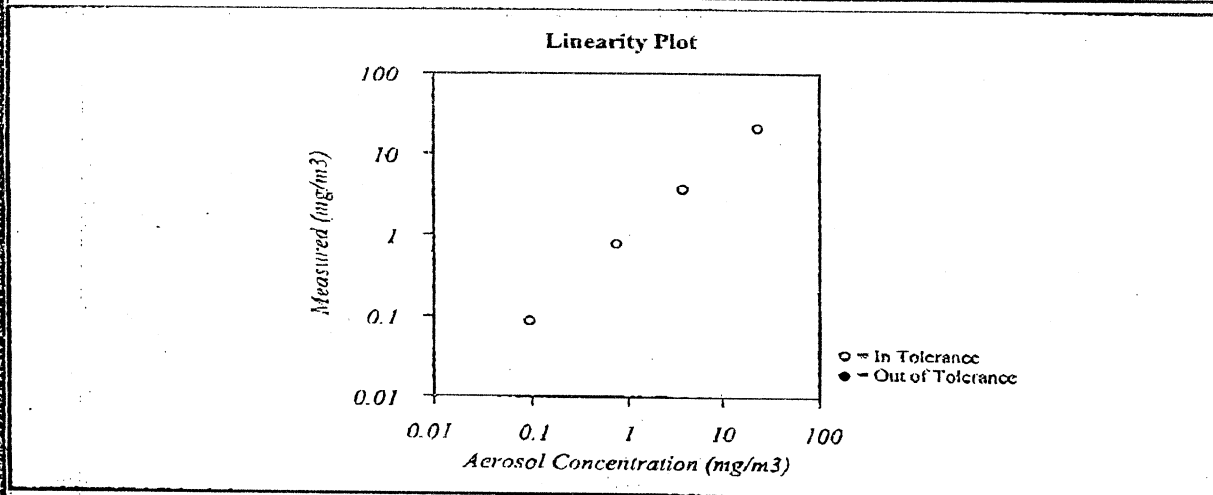


CERTIFICATE OF CALIBRATION AND TESTING

TSI Incorporated, 500 Cardigan Road, Shoreview, MN 55126 USA Tel: 1-800-424-7427 1-651-490-2811 Fax: 1-651-490-3824 <http://www.tsi.com>

Environment Condition			Model	8520
Temperature	75.2 (24.0)	°F (°C)	Serial Number	22605
Relative Humidity	11	%RH		
Barometric Pressure	29.08 (984.8)	inHg (hPa)		

- | | |
|---|--|
| <input checked="" type="checkbox"/> As Left | <input checked="" type="checkbox"/> In Tolerance |
| <input type="checkbox"/> As Found | <input type="checkbox"/> Out of Tolerance |



Zero Stability Results

Average:	Minimum:	Maximum:	Time:
:mg/m ³	:mg/m ³	:mg/m ³	:hrs.

TSI Incorporated does hereby certify that all materials, components, and workmanship used in the manufacture of this equipment are in strict accordance with the applicable specifications agreed upon by TSI and the customer and with all published specifications. All performance and acceptance tests required under this contract were successfully conducted according to required specifications. There is no NIST standard for optical mass measurements. Calibration of this instrument performed by TSI has been done using emery oil and has been nominally adjusted to respirable mass of standard ISO 12103-1, A1 test dust (Arizona dust). Our calibration ratio is greater than 1.2:1

Measurement Variable	System ID	Last Cal.	Cal. Due	Measurement Variable	System ID	Last Cal.	Cal. Due
Barometric Pressure	E001329	04-30-07	04-30-08	Temperature	E002873	02-25-08	02-25-09
Humidity	E002873	02-25-08	02-25-09	DC Voltage	E003322	10-11-07	12-11-08
DC Voltage	E003323	10-11-07	12-11-08				

[Signature]
Calibrated

Final Function Check

March 4, 2008

Date



輝創工程有限公司

Sun Creation Engineering Limited Calibration and Testing Laboratory

Certificate No. : C081909

Certificate of Calibration

This is to certify that the equipment

Description : Sound Level Meter

Manufacturer : Rion

Model No. : NL-31

Serial No. : 00410224

*has been calibrated for the specific items and ranges.
The results are shown in the Calibration Report No. C081909.*

The equipment is supplied by

Co. Name : Envirotech Services Co.

*Address : Shop 6, G/F., Casio Mansion, 209 Shaukeiwan Road,
Hong Kong*

Date of Issue : 14 April 2008

Certified by :

K C Lee

The test equipment used for testing are traceable to the National Standards as specified in this report.
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Calibration and Testing Laboratory of Sun Creation Engineering Limited

c/o 4/F, Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong
Tel: 2927 2606 Fax: 2714 8986 E-mail: callab@suncreation.com Website: www.suncreation.com



輝創工程有限公司

Sun Creation Engineering Limited Calibration and Testing Laboratory

Certificate No. : C083194

Certificate of Calibration

This is to certify that the equipment

Description : Sound Level Calibrator

Manufacturer : Rion

Model No. : NC-73

Serial No. : 10997142

*has been calibrated for the specific items and ranges.
The results are shown in the Calibration Report No. C083194.*

The equipment is supplied by

Co. Name : Envirotech Services Co.

*Address : Shop 6, G/F., Casio Mansion, 209 Shauketwan Road,
Hong Kong*

Date of Issue : 25 June 2008

Certified by:

K. C. Lee

The test equipment used for testing are traceable to the National Standards as specified in this report.
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