

Certificate of Calibration

It is certified that the item under calibration has been calibrated by corresponding calibrated High Volume Sampler

Description:	Digital Dust Indicator		Date	of Calibration	30-Nov-23
Manufacturer:	Sibata Scientific Technology LTD.	_	Validity of Calibr	ation Record	30-Jan-24
Model No.:	LD-5R				
Serial No.:	8Y2374				
Equipment No.:	SA-01-04	Sensitivity	0.001 mg/m3	_	
High Volume Sa	ampler No.: A-01-03	Before Sensiti	vity Adjustment	652	
Tisch Calibratio	on Orifice No.: 3864	After Sensitivi	ity Adjustment	652	
	Ca	libration of 1 h	r TSP		
Calibration	Laser Dust Monitor			HVS	
Point	Mass Concentration (µg/: X-axis	'm3)	Mas	ss concentration (µ Y-axis	ιg/m ³)
1	74.0			135.0	
2	66.0			122.0	
3	54.0			100.0	
Average	64.7			119.0	
By Linear Regr Slope , mw =	ression of Y on X 1.7566	Inter	cept, bw =	5.4079	
Correlation co	oefficient* =0.9995	1			
		~			
		t Correlation F	actor		
	ncentration by High Volume Sampler ((µg/m ³)	119.0		
	ncentration by Dust Meter ($\mu g/m^3$)			64.7	
Measureing time				60.0	
Set Correlation I SCF = [K=Hig	Factor , SCF h Volume Sampler / Dust Meter, (µş	g/m3)]	1.8		

In-house method in according to the instruction manual:

The Dust Monitor was compared with a calibrated High Volume Sampler and The result was used to generate the Correlation Factor (CF) between the Dust Monitor and High Volume Sampler.

Those filter papers are weighted by HOKLAS laboratory (HPCT Litimed)

Calibrated by:

Approved by: _____ Chang that

Project Manager (Henry Leung)



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Description:	Digital Dust Indicator		Date	of Calibration	30-Jan-24
Manufacturer:	Sibata Scientific Technology LTD.	_	Validity of Caliba	ration Record	30-Mar-24
Model No.:	LD-5R				
Serial No.:	8Y2374				
Equipment No.:	SA-01-04	Sensitivity	0.001 mg/m3	-	
High Volume Sa	ampler No.: A-01-03	Before Sensitiv	vity Adjustment	652	
Tisch Calibratio	on Orifice No.: <u>3864</u>	After Sensitivit	ty Adjustment	652	
	Ca	alibration of 1 h	r TSP		
Calibration	Laser Dust Monitor	r		HVS	
Point	Mass Concentration (μg/m3) X-axis		Mass concentration (µg/m ³) Y-axis		g/m ³)
1	75.0		137.0		
2	67.0			124.0	
3	55.0			102.0	
Average	65.7			121.0	
By Linear Regr Slope , mw = Correlation co			cept, bw =	5.6513	
	Se	et Correlation Fa	actor		
	ncentration by High Volume Sampler	$(\mu g/m^3)$		121.0	
Particaulate Cor	ncentration by Dust Meter ($\mu g/m^3$)			65.7	
Measureing time	e, (min)			60.0	
Set Correlation I	Factor, SCF				
SCF = [K=Hig	h Volume Sampler / Dust Meter, (μ	.g/m3)]	1.8		

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Calibrated by:

L

len dag Approved by: Project Manager (Henry Leung)



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Manufacturer:	Sibata Scientific Technology LTD.	_	Validity of Calibr	ation Record	30-Jan-24
Model No.:	LD-5R				
Serial No.:	8Y2373				
Equipment No.:	SA-01-05	Sensitivity	0.001 mg/m3		
High Volume Sa	ampler No.: <u>A-01-03</u>	Before Sensitiv	vity Adjustment	657	
Tisch Calibratio	on Orifice No.: <u>3864</u>	After Sensitivi	y Adjustment	657	
	Ca	libration of 1 h	: TSP		
Calibration	Laser Dust Monitor			HVS	
Point	Mass Concentration (µg/m3) X-axis		Mass concentration (µg/m ³) Y-axis		g/m ³)
1	74.0			135.0	
2	64.0			116.0	
3	54.0			98.0	
Average	64.0			116.3	
By Linear Regi Slope , mw = Correlation co			ept, bw =	-2.0667	
	Se	et Correlation Fa	actor		
Particaulate Cor	ncentration by High Volume Sampler ($(\mu g/m^3)$		116.3	
Particaulate Cor	ncentration by Dust Meter ($\mu g/m^3$)			64.0	
Measureing time	e, (min)			60.0	
Set Correlation	Factor, SCF				
SCF = [K=Hig	h Volume Sampler / Dust Meter, (μ	.g/m3)]	1.8		

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Description:	Digital Dust Indicator		Date	of Calibration	30-Jan-24
Manufacturer:	Sibata Scientific Technology LTD.	_	Validity of Calibi	ration Record	30-Mar-24
Model No.:	LD-5R				
Serial No.:	8Y2373				
Equipment No.:	SA-01-05	Sensitivity	0.001 mg/m3	_	
High Volume Sa	ampler No.: A-01-03	Before Sensitiv	vity Adjustment	657	
Tisch Calibratio	on Orifice No.: <u>3864</u>	After Sensitivit	y Adjustment	657	
	Ca	libration of 1 hr	TSP		
Calibration	Laser Dust Monitor	r		HVS	
Point	Mass Concentration (μg/m3) X-axis		Mass concentration (µg/m ³) Y-axis		g/m ³)
1	75.0			137.0	
2	65.0			118.0	
3	55.0			100.0	
Average	65.0			118.3	
By Linear Reg Slope , mw = Correlation c	ression of Y on X oefficient* =0.9999		ept, bw =	-1.9167	
	Se	et Correlation Fa	ictor		
Particaulate Concentration by High Volume Sampler ($\mu g/m^3$)		$(\mu g/m^3)$	118.3		
Particaulate Concentration by Dust Meter ($\mu g/m^3$)			65.0		
Measureing time	e, (min)			60.0	
Set Correlation	Factor, SCF				
SCF = [K=Hig	h Volume Sampler / Dust Meter, (μ	.g/m3)]	1.8		

In-house method in according to the instruction manual:

The Dust Monitor was compared with a calibrated High Volume Sampler and The result was used to generate the Correlation Factor (CF) between the Dust Monitor and High Volume Sampler.

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Approved by: len thay

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Description:	Digital Dust Indicator		Date of	of Calibration	30-Nov-23
Manufacturer:	Sibata Scientific Technology LTD.	_	Validity of Calibra	ation Record	30-Jan-24
Model No.:	LD-5R				
Serial No.:	972777				
Equipment No.:	SA-01-06	Sensitivity	0.001 mg/m3		
High Volume Sa	ampler No.: <u>A-01-03</u>	Before Sensiti	vity Adjustment	645	
Tisch Calibratio	on Orifice No.: <u>3864</u>	After Sensitivi	ity Adjustment	645	
	Ca	libration of 1 h	r TSP		
Calibration	Laser Dust Monitor	r		HVS	
Point	Mass Concentration (µg/m3) X-axis		Mass concentration (µg/m ³) Y-axis		ıg/m ³)
1	75.0			139.0	
2	65.0		120.0		
3	53.0			100.0	
Average	64.3			119.7	
By Linear Regi Slope , mw = Correlation co			cept, bw =	5.8462	
	Se	et Correlation F	actor		
Particaulate Cor	ncentration by High Volume Sampler ($(\mu g/m^3)$		119.7	
Particaulate Cor	ncentration by Dust Meter ($\mu g/m^3$)			64.3	
Measureing time	e, (min)			60.0	
Set Correlation	Factor, SCF				
SCF = [K=Hig	gh Volume Sampler / Dust Meter, (μ	g/m3)]	1.9		

In-house method in according to the instruction manual:

The Dust Monitor was compared with a calibrated High Volume Sampler and The result was used to generate the Correlation Factor (CF) between the Dust Monitor and High Volume Sampler.

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Manufacturer:	Sibata Scientific Technology LTD.	_	Validity of Calibi	ration Record	30-Mar-24
Model No.:	LD-5R				
Serial No.:	972777				
Equipment No.:	SA-01-06	Sensitivity	0.001 mg/m3	_	
High Volume Sa	ampler No.: A-01-03	Before Sensiti	vity Adjustment	645	
Tisch Calibratio	on Orifice No.: 3864	After Sensitivi	ity Adjustment	645	
	Са	alibration of 1 h	r TSP		
Calibration	Laser Dust Monitor	r		HVS	
Point	Mass Concentration (µg/ X-axis	′m3)	Mas	ss concentration (µ Y-axis	ιg/m ³)
1	76.0			140.0	
2	66.0		121.0		
3	55.0		101.0		
Average	65.7			120.7	
•	ression of Y on X				
Slope, mw =	1.8565	Intero	cept, bw =	-1.2432	
Correlation co	coefficient* = 0.9999)			
	C.	t Comolotion E			
D. diamlata Car		et Correlation F	actor	120.7	
	ncentration by High Volume Sampler ((µg/m)	120.7		
	ncentration by Dust Meter ($\mu g/m^3$)			65.7	
Measureing time				60.0	
Set Correlation		-/	10		
SCF = [K=Hig]	gh Volume Sampler / Dust Meter, (μ	g/mɔ) j	1.8	,	

In-house method in according to the instruction manual:

The Dust Monitor was compared with a calibrated High Volume Sampler and The result was used to generate the Correlation Factor (CF) between the Dust Monitor and High Volume Sampler.

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Manufacturer:	Sibata Scientific Technology LTD.	_	Validity of Calibr	ation Record	30-Jan-24
Model No.:	LD-5R				
Serial No.:	972778				
Equipment No.:	SA-01-07	Sensitivity	0.001 mg/m3		
High Volume Sa	ampler No.: <u>A-01-03</u>	Before Sensitiv	vity Adjustment	735 CPM	
Tisch Calibratio	n Orifice No.: <u>3864</u>	After Sensitivit	y Adjustment	735 CPM	
	Ca	libration of 1 hr	TSP		
Calibration	Laser Dust Monitor			HVS	
Point	Mass Concentration (µg/m3) X-axis		Mass concentration (µg/m ³) Y-axis		ug/m ³)
1	72.0		139.0		
2	62.0		121.0		
3	52.0		100.0		
Average	62.0		120.0		
	ression of Y on X <u>1.9500</u> oefficient* = 0.9990		ept, bw =	-0.9000	
	encent – <u>0.7770</u>				
	Se	et Correlation Fa	actor		
Particaulate Con	centration by High Volume Sampler ($(\mu g/m^3)$		120.0	
Particaulate Concentration by Dust Meter (µg/m ³)			62.0		
Measureing time	e, (min)			60.0	
Set Correlation I	Factor, SCF				

In-house method in according to the instruction manual:

SCF = [K=High Volume Sampler / Dust Meter, (µg/m3)]

The Dust Monitor was compared with a calibrated High Volume Sampler and The result was used to generate the Correlation Factor (CF) between the Dust Monitor and High Volume Sampler.

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Calibrated by:

Approved by: 1 an

Technical Officer (Wong Shing Kwai)

Project Manager (Henry Leung)



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Description:	Digital Dust Indicator		Date	of Calibration	30-Jan-24
Manufacturer:	Sibata Scientific Technology LTD.	_	Validity of Calibr	ation Record	30-Mar-24
Model No.:	LD-5R				
Serial No.:	972778				
Equipment No.:	SA-01-07	Sensitivity	0.001 mg/m3		
High Volume Sa	mpler No.: <u>A-01-03</u>	Before Sensitiv	vity Adjustment	735 CPM	
Tisch Calibration	n Orifice No.: <u>3864</u>	After Sensitivi	ty Adjustment	735 CPM	
	Cal	libration of 1 h	r TSP		
Calibration	Laser Dust Monitor			HVS	2
Point	Mass Concentration (µg/n X-axis	m3)	Mas	ss concentration (µ Y-axis	ıg/m ³)
1	73.0			140.0	
2	63.0			122.0	
3	53.0			101.0	
Average	63.0		121.0		
By Linear Regression of Y on X Slope , mw = <u>1.9500</u> Intercept, bw = <u>-1.8500</u> Correlation coefficient* = <u>0.9990</u>					
	Set	t Correlation F	actor		
Particaulate Concentration by High Volume Sampler (μ g/m ³)				121.0	
Particaulate Con	centration by Dust Meter ($\mu g/m^3$)		63.0		
Measureing time	, (min)		60.0		

Set Correlation Factor, SCF

SCF = [K=High Volume Sampler / Dust Meter, (µg/m3)]

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Technical Officer (Wong Shing Kwai)



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Description:	Digital Dust Indicator	Date	of Calibration	30-Nov-23	
Manufacturer:	Sibata Scientific Technology LTD.	Validity of Calib	oration Record	30-Jan-24	
Model No.:	LD-5R				
Serial No.:	972780				
Equipment No.:	SA-01-09	Sensitivity 0.001 mg/m3	_		
High Volume Sa	mpler No.: A-01-03	Before Sensitivity Adjustment	739 CPM		
Tisch Calibratio	n Orifice No.: <u>3864</u>	After Sensitivity Adjustment	739 CPM		
	Ca	libration of 1 hr TSP			
Calibration	Laser Dust Monitor	r	HVS		
Point	Mass Concentration (µg/ X-axis	/m3) Ma	Mass concentration (µg/m ³) Y-axis		
1	73.0		139.0		
2	63.0		119.0		
3	52.0		99.0		
Average	62.7		119.0		
	ression of Y on X 	Intercept, bw =	-0.2749		
	Se	t Correlation Factor			
Particaulate Con	centration by High Volume Sampler	(µg/m ³)	119.0		
Particaulate Con	centration by Dust Meter (µg/m ³)		62.7		
Measureing time	e, (min)		60.0		
Set Correlation I	Factor, SCF				

SCF = [K=High Volume Sampler / Dust Meter, (µg/m3)]

In-house method in according to the instruction manual:

The Dust Monitor was compared with a calibrated High Volume Sampler and The result was used to generate the Correlation Factor (CF) between the Dust Monitor and High Volume Sampler.

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Approved by: _____ Kan

Technical Officer (Wong Shing Kwai)

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Description:	Digital Dust Indicator		Date	of Calibration	30-Jan-24	
Manufacturer:	Sibata Scientific Technology LTD.	_	Validity of Calibr	ration Record	30-Mar-24	
Model No.:	LD-5R					
Serial No.:	972780					
Equipment No.:	SA-01-09	Sensitivity	0.001 mg/m3	-		
High Volume Sa	mpler No.: <u>A-01-03</u>	Before Sensitiv	vity Adjustment	739 CPM		
Tisch Calibration	n Orifice No.: <u>3864</u>	After Sensitivi	ty Adjustment	739 CPM		
	Cal	libration of 1 h	r TSP			
Calibration	Laser Dust Monitor			HVS		
Point	Mass Concentration (µg/1 X-axis	m3)	Mass concentration (µg/m ³) Y-axis		(g/m^3)	
1	75.0			141.0		
2	65.0			121.0		
3	54.0			100.0		
Average	64.7		120.7			
By Linear Regression of Y on X Slope , mw = <u>1.9517</u> Intercept, bw = <u>-5.5408</u> Correlation coefficient* = <u>0.9999</u>						
	Set	t Correlation F	actor			
	centration by High Volume Sampler ($\mu g/m^3$)	120.7			
	centration by Dust Meter ($\mu g/m^3$)			64.7		
Measureing time	2, (min)		60.0			

Set Correlation Factor, SCF

SCF = [K=High Volume Sampler / Dust Meter, (µg/m3)]

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Technical Officer (Wong Shing Kwai)

Approved by: Project Manager (Henry Leung



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Description:	Digital Dust Indicator		Date of Calibration	30-Nov-23			
Manufacturer:	Sibata Scientific Technology LTD.	_	Validity of Calibration Record	30-Jan-24			
Model No.:	LD-5R						
Serial No.:	972781						
Equipment No.:	SA-01-10	Sensitivity	0.001 mg/m3				
High Volume Sa	ampler No.: A-01-03	Before Sensitiv	vity Adjustment 734 CPM				
Tisch Calibratio	on Orifice No.: <u>3864</u>	After Sensitivi	ty Adjustment 734 CPM				
	Ca	libration of 1 h	r TSP				
Calibration	Laser Dust Monitor		HVS				
Point	Mass Concentration (µg/m3)		Mass concentration ($\mu g/m^3$)				
	X-axis		Y-axis				
1	80.0		132.0				
2	70.0		114.0				
3	60.0		98.0				
Average	70.0		114.7				
Slope , mw =	By Linear Regression of Y on X Slope , mw = <u>1.7000</u> Intercept, bw = <u>-4.3333</u> Correlation coefficient* = <u>0.9994</u>						
	Se	t Correlation F	actor				
Particaulate Cor	ncentration by High Volume Sampler ($(\mu g/m^3)$	114.7				
Particaulate Cor	ncentration by Dust Meter ($\mu g/m^3$)		70.0				
Measureing time	e, (min)		60.0				
Set Correlation	Factor, SCF						
SCF = [K=Hig	h Volume Sampler / Dust Meter, (μ	g/m3)]	1.6				

In-house method in according to the instruction manual:

The Dust Monitor was compared with a calibrated High Volume Sampler and The result was used to generate the Correlation Factor (CF) between the Dust Monitor and High Volume Sampler.

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Calibrated by:

Approved by: _____

Project Manager (Henry Leung)



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Description:	Digital Dust Indicator		Date of Calibration	30-Jan-24	
Manufacturer:	Sibata Scientific Technology LTD.	Validity of	Calibration Record	30-Mar-24	
Model No.:	LD-5R				
Serial No.:	972781				
Equipment No.:	SA-01-10	Sensitivity 0.001 mg/	m3		
High Volume Sa	ampler No.: <u>A-01-03</u>	Before Sensitivity Adjustme	ent 734 CPM		
Tisch Calibration	n Orifice No.: <u>3864</u>	After Sensitivity Adjustmer	t 734 CPM		
	Ca	libration of 1 hr TSP			
Calibration	Laser Dust Monitor		HVS		
Point Mass Concentration (µg/n X-axis		m3)	Mass concentration (µg/m ³) Y-axis		
1	82.0		134.0		
2	72.0		116.0		
3	62.0		100.0		
Average	72.0		116.7		
By Linear Regression of Y on X Slope , mw = <u>1.7000</u> Intercept, bw = <u>-5.7333</u> Correlation coefficient* = <u>0.9994</u>					
	Se	t Correlation Factor			
Particaulate Con	centration by High Volume Sampler ($(\mu g/m^3)$	116.7		
Particaulate Con	centration by Dust Meter (µg/m ³)		72.0		
Measureing time	e, (min)		60.0		
Set Correlation I	Factor . SCF				

SCF = [K=High Volume Sampler / Dust Meter, (µg/m3)]

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Approved by: leng thay Project Manager (Henry Leung)

Technical Officer (Wong Shing Kwai)

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File No. MA16034/05/0045

Project No.	AM1 - Tin Hau	ı Temple	1			
Date:	12-I	Dec-23	Next Due Date:	12-Feb-24	Operator:	SK
Equipment No.:	A-	01-05	Model No.:	GS2310	Serial No.	10599
			Ambient Cond	ition		
Temperatu	ıre, Ta (K)	297.7	Pressure, Pa (mn	nHg)	762.2	

Orifice Transfer Standard Information						
Serial No.	3864	Slope, mc	0.05928	Intercept, bc	-0.03491	
Last Calibration Date:	16-Jan-23	1	mc x Qstd + bo	$c = [\Delta H \ x \ (Pa/760) \ x \ (298/Ta)]$] ^{1/2}	
Next Calibration Date:	16-Jan-24		$\mathbf{Qstd} = \{ [\Delta \mathbf{H} \mathbf{x}] \}$	$\left(Pa/760\right) x \left(298/Ta\right)]^{1/2} \ \text{-bc} \} / $	mc	

Calibration of TSP Sampler								
Calibration		Orfice			HVS			
Point	ΔH (orifice), in. of water	$[\Delta H \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	ΔW (HVS), in. of water	$[\Delta W \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}$ Y-axis			
1	13.0	3.61	61.53	9.0	3.01			
2	10.3	3.22	54.83	6.7	2.59			
3	7.3	2.71	46.26	4.8	2.20			
4	5.3	2.31	39.50	2.8	1.68			
5	2.9	1.71	29.37	1.5	1.23			
Slope, mw =	By Linear Regression of Y on X Slope , mw = 0.0559 Intercept, bw : -0.4498 Correlation coefficient* = 0.9970							
*If Correlation C	Coefficient < 0.990), check and recalibrate.						
		Set Point C	alculation					
From the TSP Fi	eld Calibration Cu	urve, take Qstd = 43 CFM						
From the Regres	sion Equation, the	"Y" value according to						
Therefore, Se	et Point; W = (mv	$\mathbf{mw} \mathbf{x} \mathbf{Qstd} + \mathbf{bw} = [\Delta \mathbf{W} \mathbf{x}]$ w x Qstd + bw) ² x (760 / Pa) x (
Remarks:								
Conducted by:	Wong Shi	ng Kwai Signature:	k	火.	Date: 12-Dec-23			
Checked by:	Henry I	Leung Signature:	-lem	N. Janj	Date: 12-Dec-23			



File No. MA16034/08/0045

Project No.	AM2 - Sai Tso Wan Recreation Ground					
Date:	12-1	Dec-23	Next Due Date:	12-Feb-24	Operator:	SK
Equipment No.:	A-	01-08	Model No.:	GS2310	Serial No.	1287
			Ambient Condit		5 40 0	
Temperatu	ire, Ta (K)	297.7	Pressure, Pa (mml	Hg)	762.2	

Orifice Transfer Standard Information								
Serial No.	3864	Slope, mc	0.05928	Intercept, bc	-0.03491			
Last Calibration Date:	16-Jan-23	1	mc x Qstd + bc = $[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$					
Next Calibration Date:	16-Jan-24	Qstd = { $[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$ -bc} / mc						

Calibration of TSP Sampler							
Calibration		Orfice			HVS		
Point	ΔH (orifice), in. of water	$[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	ΔW (HVS), in. of water	$[\Delta W \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}$ Y-axis		
1	13.1	3.63	61.76	8.7	2.96		
2	10.2	3.20	54.57	6.4	2.53		
3	7.4	2.73	46.57	4.5	2.13		
4	5.1	2.26	38.76	3.0	1.74		
5	2.9	1.71	29.37	1.5	1.23		
Slope , mw = Correlation	coefficient* =	0.9997), check and recalibrate.	Intercept, bw = 	-0.323	34		
From the Regres	Set Point Calculation From the TSP Field Calibration Curve, take Qstd = 43 CFM From the Regression Equation, the "Y" value according to mw x Qstd + bw = $[\Delta W x (Pa/760) x (298/Ta)]^{1/2}$ Therefore, Set Point; W = (mw x Qstd + bw)^2 x (760 / Pa) x (Ta / 298) =						
Remarks:							
	Wong Shi	ng Kwai Signature Leung Signature	: :lem	N. Janj	Date: 12-Dec-23 Date: 12-Dec-23		

.



File No. MA16034/03/0045

Project No.	AM3 - Yau Lai	i Estate, Bik Lai				
Date:	12-I	Dec-23	Next Due Date:	12-Feb-24	Operator:	SK
Equipment No.:	A-(01-03	Model No.:	G\$2310	Serial No.	10379
Temperatu	re Ta (K)	297.7	Ambient Conditi Pressure, Pa (mmH		762.2	
Temperatu	iie, 1a (K)	231.1	Tressure, T a (mm)	ig)	702.2	

	Orifice Transfer Standard Information						
Serial No.	3864	Slope, mc	0.05928	Intercept, bc	-0.03491		
Last Calibration Date:	16-Jan-23	1	mc x Qstd + bo	$c = [\Delta H \ x \ (Pa/760) \ x \ (298/Ta)]$	$]^{1/2}$		
Next Calibration Date:	16-Jan-24		$\mathbf{Qstd} = \{ [\Delta \mathbf{H} \mathbf{x}] \}$	$\left(\text{Pa/760} \right) x \left(298/\text{Ta} \right) \right]^{1/2} \text{-bc} \} / $	mc		

Calibration of TSP Sampler								
Calibration		Orfice		HVS				
Point	ΔH (orifice), in. of water	$[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	ΔW (HVS), in. of water		0) x (298/Ta)] ^{1/2} -axis		
1	12.9	3.60	61.30	8.5	~	2.92		
2	10.6	3.26	55.62	6.5		2.55		
3	7.8	2.80	47.79	4.6		2.15		
4	5.0	2.24	38.38	2.9	1	1.71		
5	3.0	1.74	29.86	1.7	1	1.31		
Slope , mw = Correlation	By Linear Regression of Y on X Slope , mw = <u>0.0507</u> Intercept, bw : <u>-0.2329</u> Correlation coefficient* = <u>0.9983</u>							
*If Correlation C	Coefficient < 0.990), check and recalibrate.						
		Set Point C	alculation					
From the TSP Fi	eld Calibration Cu	urve, take Qstd = 43 CFM						
From the Regres	sion Equation, the	e "Y" value according to						
Therefore, Se	et Point; W = (mv	$\mathbf{mw} \mathbf{x} \mathbf{Qstd} + \mathbf{bw} = [\Delta \mathbf{W} \mathbf{x}]$ v x Qstd + bw) ² x (760 / Pa) x (
Remarks:								
Conducted by:	Wong Shi	ng Kwai Signature:	k	<u>у</u>	Date:	12-Dec-23		
Checked by:	Henry I	Leung Signature:	-lem	7 ^x ~7	Date:	12-Dec-23		



File No. MA20003/55/023

Project No.	CKL 2 - Flat 103 Cha Kwo Ling Village					
Date:	4-N	Jov-23	Next Due Date:	4-Jan-24	Operator:	SK
Equipment No.:	A-	01-55	Model No.:	TE 5170	Serial No.	1956
			Ambient Conditi	on		
Temperatu	ıre, Ta (K)	299.3	Pressure, Pa (mmH	Ig)	760.5	

	Orifice Transfer Standard Information						
Serial No.	3864	Slope, mc	0.05928	Intercept, bc	-0.03491		
Last Calibration Date:	16-Jan-23	1	mc x Qstd + bo	$c = [\Delta H \ x \ (Pa/760) \ x \ (298/Ta)]$	$]^{1/2}$		
Next Calibration Date:	16-Jan-24		$\mathbf{Qstd} = \{ [\Delta \mathbf{H} \mathbf{x}] \}$	$\left(\text{Pa/760} \right) x \left(298/\text{Ta} \right) \right]^{1/2} \text{-bc} \} / $	mc		

Calibration of TSP Sampler							
Calibration		Orfice			HVS		
Point	ΔH (orifice), in. of water	[ΔH x (Pa/760) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of water	$[\Delta W \times (Pa/760) \times \mathbf{Y}$ -axis		
1	13.3	3.64	62.00	9.8	3.12		
2	11.0	3.31	56.43	7.8	2.79		
3	9.1	3.01	51.38	6.0	2.44		
4	5.4	2.32	39.72	2.8	1.67		
5	3.4	1.84	31.64	1.7	1.30		
Slope , mw = Correlation	coefficient* =	0.9981), check and recalibrate.	Intercept, bw = -	-0.696	4		
From the Regres	Set Point Calculation Set Point Calculation From the TSP Field Calibration Curve, take Qstd = 43 CFM From the Regression Equation, the "Y" value according to mw x Qstd + bw = $[\Delta W x (Pa/760) x (298/Ta)]^{1/2}$ Therefore, Set Point; W = (mw x Qstd + bw) ² x (760 / Pa) x (Ta / 298) = 3.79						
Remarks:							
·	Wong Shi		<u> </u>	<u>N-</u> 1 X-7	Date:4-	-Nov-23	
Checked by:	Henry I	Leung Signature:	- tem	1 X27	Date: 4-	-Nov-23	

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File No. MA20003/55/024

Project No.	CKL 2 - Flat 103	CKL 2 - Flat 103 Cha Kwo Ling Village				
Date:	4-Jai	n-24	Next Due Date:	4-Mar-24	Operator:	SK
Equipment No.:	A-0.	1-55	Model No.:	TE 5170	Serial No.	1956
			Ambient Condit	ion		
Temperatu	re, Ta (K)	290	Pressure, Pa (mml	Hg)	765.7	

Orifice Transfer Standard Information							
Serial No. 3864 Slope, mc 0.05928 Intercept, bc -0.03491							
Last Calibration Date:	16-Jan-23	mc x Qstd + bc = $[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$					
Next Calibration Date:	16-Jan-24	Qstd = { $[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$ -bc} / mc					

Calibration of TSP Sampler								
Calibration	Calibration Orfice			HVS				
Point	ΔH (orifice), in. of water	$[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	ΔW (HVS), in. of water	$[\Delta W \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}$ Y-axis			
1	13.6	3.75	63.89	9.9	3.20			
2	11.3	3.42	58.29	7.9	2.86			
3	9.4	3.12	53.21	6.2	2.53			
4	5.6	2.41	41.21	3.0	1.76			
5	3.5	1.90	32.70	2.0	1.44			
By Linear Regression of Y on X Slope , mw =0.0580 Intercept, bw :0.5302 Correlation coefficient* =0.9963 *If Correlation Coefficient < 0.990, check and recalibrate.								
	Set Point Calculation From the TSP Field Calibration Curve, take Qstd = 43 CFM From the Regression Equation, the "Y" value according to							
Therefore, Se	$mw x Qstd + bw = [\Delta W x (Pa/760) x (298/Ta)]^{1/2}$ Therefore, Set Point; W = (mw x Qstd + bw) ² x (760 / Pa) x (Ta / 298) =3.72							
Remarks:								
Conducted by:	Wong Shi	ng Kwai Signature:	X	<u>h</u> .	Date: 4-Jan-24			
Checked by:	Henry I	Leung Signature:	lem	1 X27-	Date: 4-Jan-24			



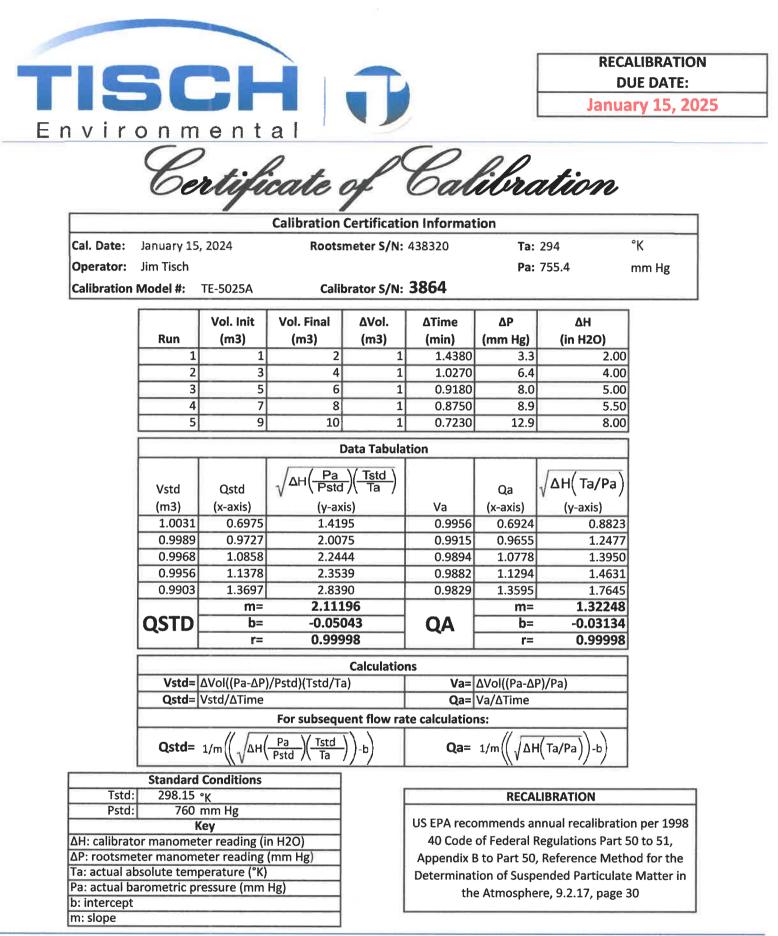
RECALIBRATION

DUE DATE:

January 16, 2024

Certificate of Calibration

			Calibration					°K
Cal. Date:	January 16, 2023 Rootsn		meter S/N:	eter S/N: 438320		Ta: 293		
Operator:	Jim Tisch					Pa:	749.0	mm Hg
Calibration	Model #:	TE-5025A	Calib	prator S/N:	3864			
		Vol. Init	Vol. Final	ΔVol.	ΔTime	ΔΡ	ΔΗ	1
	Run	(m3)	(m3)	(m3)	(min)	(mm Hg)	(in H2O)	
	1	1	2	1	1.4440	3.2	2.00	1
	2	3	4	1	1.0220	6.4	4.00	
	3	5	6	1	0.9100	8.0	5.00	
	4	7	8	1	0.8710	8.8	5.50	
	5	9	10	1	0.7210	12.8	8.00	
			[Data Tabula	tion]
	Vstd	Qstd	√∆H(<u>Pa</u> Pstd)(<u>Tstd</u>) Ta)		Qa	$\sqrt{\Delta H(Ta/Pa)}$	
	(m3)	(x-axis)	(y-ax	is)	Va	(x-axis)	(y-axis)	
	0.9981	0.6912	1.41	59	0.9957	0.6896	0.8845	
	0.9938	0.9724	2.00	24	0.9915	0.9701	1.2509	
	0.9917	1.0898	2.23	88	0.9893	1.0872	1.3985	
	0.9906	1.1373	2.34	80	0.9883	1.1346	1.4668	
	0.9853	1.3665	2.83		0.9829	1.3633	1.7690	
		m=	2.094			m=	1.31155	
	QSTD	b=	-0.034		QA	b=	-0.02182	
		r=	0.999	995		ľ=	0.99995	
				Calculatio				
)/Pstd)(Tstd/Ta	a)	Va= ΔVol((Pa-ΔP)/Pa)			
	Qstd=	Vstd/∆Time		Qa= Va/∆Time				
			For subsequ	ient flow ra	te calculatio	ns:		
	Qstd=	1/m((√∆H(Pa <u>Tstd</u> Pstd Ta	-))-ь)	Qa=	1/m ((√∆H	l(Ta/Pa))-b)	
		Conditions						
Tstd						RECA	LIBRATION	
Pstd		mm Hg			US FPA rec	ommends a	nnual recalibratio	on ner 1999
AH: calibrat		Key ter reading (i	n H2O)				Regulations Part !	
		eter reading					, Reference Meth	
		perature (°K)					ended Particulat	
		ressure (mm				•	ere, 9.2.17, page	
b: intercept						c Autospite	, J.z.z/, page	
m: slope								



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Certificate of Calibration - Wind Monitoring Station

Description:	Yau Lai Estate, Bik Lai House
Manufacturer:	Davis Instruments
Model No.:	<u>Davis7440</u>
Serial No.:	<u>MC01010A44</u>
Equipment No.:	<u>SA-03-04</u>
Date of Calibration	<u>18-Aug-2023</u>
Next Due Date	<u>18-Feb-2024</u>

1. Performance check of Wind Speed

Wind Sp	beed, m/s	Difference D (m/s)
Wind Speed Reading (V1)	Anemometer Value (V2)	D = V1 - V2
0.0	0.0	0.0
1.5	1.5	0.0
2.5	2.4	0.1
4.0	3.9	0.1

2. Performance check of Wind Direction

Wind Di	rection (°)	Difference D (°)
Wind Direction Reading (W1)	Marine Compass Value (W2)	$\mathbf{D} = \mathbf{W1} - \mathbf{W2}$
0	0	0.0
90	90	0.0
180	180	0.0
270	270	0.0

Test Specification:

1. Performance Wind Speed Test - The wind meter was on-site calibrated against the anemometer

2. Performance Wind Direction Test - The wind meter was on-site calibrated against the marine compass at four direction

Report No.

Rm 1904, Technology Park 18 On Lai Street, Shatin NT, Hong Kong Tel: +852 3841 4388 Website: https://www.hpct.com.hk

: 00396



: 02 Aug 2023

Issue Date

Application No. : HP00278 **Certificate of Calibration** Applicant : Cinotech Consultants Limited RM 1710, Technology Park, 18 On Lai Street, Shatin, N.T., Hong Kong Sample Description : Submitted equipment stated to be Sound Level Calibrator. Equipment No.: : N-13-02 Manufacturer: : SOUNDTEK Other information : Model No. ST-120 Serial No. 181001636 : 01 Aug 2023 Date Received Test Period : 01 Aug 2023 to 01 Aug 2023 : Performance checking for Sound Level Calibrator **Test Requested** Test Method : The Sound Level Meter and Calibrator has been calibrated in accordance with the documented procedures and using standard and instrument which are recommended by the manufacturer, or equivalent. **Test conditions** : Room Temperature: 22-25 degree Celsius Relative Humidity: 35-70%

Test Result : Refer to the test result(s) on page 2.

Remark : 1. Information of the sample description provided by the Applicant.

2. The result(s) relate only to the items tested or calibrated.

For and on behalf of HIGH PRECISION CHEMICAL TESTING LIMITED

Lee Wai Kit

Lee Wal Kit Laboratory Manager

Rm 1904, Technology Park 18 On Lai Street, Shatin NT, Hong Kong Tel: +852 3841 4388 Website: https://www.hpct.com.hk

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Report No.:00396Application No.:HP00278

<u>Certificate of Calibration</u>

Measuring equipment

Description	Sound Calibrator
Manufacturer	Brüel & Kjær
Model No.	TYPE 4231
Serial No.	2326353
Equipment No.	N-02-01
Description	Sound Meter
Manufacturer	SVANTEK
Model No.	SVAN 977
Serial No.	92677
Microphone No.	10352
Equipment No.	N-14-01

Test Result

Reference value, dB	Indication value, dB	Deviation, dB	Allowed deviation, dB
94.0	94.1	+ 0.1	± 0.3
114.0	114.3	+ 0.3	± 0.5

- Note : 1. "Instrument Readings" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.
 - 2. The indication value was obtained from the average of ten replicated measurement.

- End of report -

Issue Date : 02 Aug 2023

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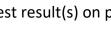


: 00389 Issue Date : 20 Jul 2023 Report No. Application No. : HP00262 **Certificate of Calibration** Applicant : Cinotech Consultants Limited RM 1710, Technology Park, 18 On Lai Street, Shatin, N.T., Hong Kong Sample Description : Submitted equipment stated to be Sound Level Calibrator. Equipment No.: : N-16-01 Manufacturer: : Hangzhou Aihua Instruments Co., Ltd. Other information : Model No. AWA6021A Serial No. 1023253 : 18 Jul 2023 Date Received Test Period : 19 Jul 2023 to 19 Jul 2023 : Performance checking for Sound Level Calibrator **Test Requested** Test Method : The Sound Level Meter and Calibrator has been calibrated in accordance with the documented procedures and using standard and instrument which are recommended by the manufacturer, or equivalent. **Test conditions** : Room Temperature: 22-25 degree Celsius Relative Humidity: 35-70% Test Result : Refer to the test result(s) on page 2.

Remark : 1. Information of the sample description provided by the Applicant. 2. The result(s) relate only to the items tested or calibrated.

> For and on behalf of HIGH PRECISION CHEMICAL TESTING LIMITED

Lee Wai Kit Laboratory Manager



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Issue Date : 20 Jul 2023

Report No.:00389Application No.:HP00262

<u>Certificate of Calibration</u>

Measuring equipment

Description	Sound Calibrator
Manufacturer	Brüel & Kjær
Model No.	TYPE 4231
Serial No.	2326353
Equipment No.	N-02-01
Description	Sound Meter
Manufacturer	BSWA Technology
Model No.	BSWA 308
Serial No.	570183
Microphone No.	570605
	N 40.04
Equipment No.	N-12-01

Test Result

Reference value, dB	Indication value, dB	Deviation, dB	Allowed deviation, dB
94.0	94.2	+ 0.2	± 0.3
114.0	114.2	+ 0.2	± 0.5

- Note : 1. "Instrument Readings" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.
 - 2. The indication value was obtained from the average of ten replicated measurement.

- End of report -

Rm 1904, Technology Park 18 On Lai Street, Shatin NT, Hong Kong Tel: +852 3841 4388 Website: https://www.hpct.com.hk



Issue Date : 02 May 2023

Report No.:00370Application No.:HP00242

Certificate of Calibration

Applicant

 Cinotech Consultants Limited RM 1710, Technology Park, 18 On Lai Street,

Shatin, N.T., Hong Kong

Sample Description : Submitted equipment stated to be Integrating Sound Level Meter.

Equipment No.: : SN-01-01

Manufacturer: : SVANTEK

Other information	:	Model No.	SVAN 979
		Serial No.	27189
		Microphone No.	25202

Date Received	:	02 May 2023
Test Period	:	02 May 2023 to 02 May 2023
Test Requested	:	Performance checking for Sound Level Meter
Test Method	:	The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard and instrument which are recommended by the manufacturer, or equivalent.
Test conditions	:	Room Temperature: 22-25 degree Celsius Relative Humidity: 35-70%
Test Result	:	Refer to the test result(s) on page 2.

Remark : 1. Information of the sample description provided by the Applicant.

2. The result(s) relate only to the items tested or calibrated.

For and on behalf of HIGH PRECISION CHEMICAL TESTING LIMITED

Lee Wai Kit Laboratory Manager

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Issue Date : 02 May 2023

Report No.:00370Application No.:HP00242

Certificate of Calibration

Measuring

equipment

Description	Sound Calibrator
Manufacturer	Brüel & Kjær
Model No.	TYPE 4231
Serial No.	2326353
Equipment No.	N-02-01

Test Result

Reference value, dB	Indication value, dB	Deviation, dB	Allowed deviation, dB
94.0	93.9	- 0.1	± 1.5
114.0	114.0	± 0.0	± 1.5

Note : 1. "Instrument Readings" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

2. The indication value was obtained from the average of ten replicated measurement.

- End of report -

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Report No. : 00430 Issue Date : 08 Sep 2023 : HP00304 Application No. **Certificate of Calibration** Applicant : Cinotech Consultants Limited RM 1710, Technology Park, 18 On Lai Street, Shatin, N.T., Hong Kong Sample Description : Submitted equipment stated to be Integrating Sound Level Meter. Equipment No.: : N-12-02 Manufacturer: : BSWA Technology Other information : Model No. **BSWA 308** Serial No. 570187 Microphone No. 590079

Date Received	: 06 Sep 2023	
Test Period	: 07 Sep 2023 to 07 Sep 2023	
Test Requested	: Performance checking for Sound Level Meter	
Test Method	: The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard and instrument which are recommended by the manufacturer, or equivalent.	
Test conditions	: Room Temperature: 22-25 degree Celsius Relative Humidity: 35-70%	
Test Result	: Refer to the test result(s) on page 2.	

: 1. Information of the sample description provided by the Applicant. Remark

2. The result(s) relate only to the items tested or calibrated.

For and on behalf of HIGH PRECISION CHEMICAL TESTING LIMITED

Lee Wai Kit Laboratory Manager

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Issue Date : 08 Sep 2023

Report No.:00430Application No.:HP00304

Certificate of Calibration

Measuring

equipment

Description	Sound Calibrator
Manufacturer	Brüel & Kjær
Model No.	TYPE 4231
Serial No.	2326353
Equipment No.	N-02-01

Test Result

Reference value, dB	Indication value, dB	Deviation, dB	Allowed deviation, dB
94.0	94.2	+ 0.2	± 1.5
114.0	114.2	+ 0.2	± 1.5

Note : 1. "Instrument Readings" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

2. The indication value was obtained from the average of ten replicated measurement.

- End of report -

Report No.

Rm 1904, Technology Park 18 On Lai Street, Shatin NT, Hong Kong Tel: +852 3841 4388 Website: https://www.hpct.com.hk

: 00361



Issue Date : 30 Mar 2023

: HP00236 Application No. **Certificate of Calibration** Applicant : Cinotech Consultants Limited RM 1710, Technology Park, 18 On Lai Street, Shatin, N.T., Hong Kong Sample Description : Submitted equipment stated to be Integrating Sound Level Meter. Equipment No.: : N-12-04 Manufacturer: : BSWA Technology Other information : Model No. **BSWA 308** Serial No. 580238 Microphone No. 570605 · 27 Mar 2023 Data Pacaivad

Date Received	27 Wal 2025	
Test Period	28 Mar 2023 to 28 Mar 2023	
Test Requested	Performance checking for Sound Level Meter	
Test Method	The Sound Level Calibrator has been calibrated in accordance with th documented procedures and using standard and instrument which ar recommended by the manufacturer, or equivalent.	-
Test conditions	Room Temperature: 22-25 degree Celsius Relative Humidity: 35-70%	
Test Result	Refer to the test result(s) on page 2.	

: 1. Information of the sample description provided by the Applicant. Remark

2. The result(s) relate only to the items tested or calibrated.

For and on behalf of HIGH PRECISION CHEMICAL TESTING LIMITED

Lee Wai Kit Laboratory Manager

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Issue Date : 30 Mar 2023

Report No.:00361Application No.:HP00236

Certificate of Calibration

Measuring

equipment

Description	Sound Calibrator	
Manufacturer	Brüel & Kjær	
Model No.	TYPE 4231	
Serial No.	2326353	
Equipment No.	N-02-01	

Test Result

Reference value, dB	Indication value, dB	Deviation, dB	Allowed deviation, dB
94.0	94.2	+ 0.2	± 1.5
114.0	114.3	+ 0.3	± 1.5

Note : 1. "Instrument Readings" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

2. The indication value was obtained from the average of ten replicated measurement.

- End of report -

Report No.

Rm 1904, Technology Park 18 On Lai Street, Shatin NT, Hong Kong Tel: +852 3841 4388 Website: https://www.hpct.com.hk

: 00364



Issue Date : 03 Apr 2023

: HP00240 Application No. **Certificate of Calibration** Applicant : Cinotech Consultants Limited RM 1710, Technology Park, 18 On Lai Street, Shatin, N.T., Hong Kong Sample Description : Submitted equipment stated to be Integrating Sound Level Meter. Equipment No.: : N-12-05 Manufacturer: : BSWA Technology Other information : Model No. **BSWA 308** Serial No. 580287 Microphone No. 570610 ~~~~

Date Received	:	03 Apr 2023
Test Period	:	03 Apr 2023 to 03 Apr 2023
Test Requested	:	Performance checking for Sound Level Meter
Test Method	:	The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard and instrument which are recommended by the manufacturer, or equivalent.
Test conditions	:	Room Temperature: 22-25 degree Celsius Relative Humidity: 35-70%
Test Result	:	Refer to the test result(s) on page 2.

Remark : 1. Information of the sample description provided by the Applicant.2. The result(s) relate only to the items tested or calibrated.

The result(s) relate only to the items tested or calibrated.

For and on behalf of HIGH PRECISION CHEMICAL TESTING LIMITED

Lee Wai Kit Laboratory Manager

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Issue Date : 03 Apr 2023

Report No.:00364Application No.:HP00240

Certificate of Calibration

Measuring

equipment

Description	Sound Calibrator
Manufacturer	Brüel & Kjær
Model No.	TYPE 4231
Serial No.	2326353
Equipment No.	N-02-01

Test Result

Reference value, dB	Indication value, dB	Deviation, dB	Allowed deviation, dB
94.0	94.2	+ 0.2	± 1.5
114.0	114.2	+ 0.2	± 1.5

Note : 1. "Instrument Readings" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

2. The indication value was obtained from the average of ten replicated measurement.

- End of report -

Report No.

Test Result

Rm 1904, Technology Park 18 On Lai Street, Shatin NT, Hong Kong Tel: +852 3841 4388 Website: https://www.hpct.com.hk

: 00393



: 02 Aug 2023

Issue Date

Application No. : HP00275 **Certificate of Calibration** Applicant : Cinotech Consultants Limited RM 1710, Technology Park, 18 On Lai Street, Shatin, N.T., Hong Kong Sample Description : Submitted equipment stated to be Sound Level Calibrator. Equipment No.: : N-13-01 Manufacturer: : SOUNDTEK Other information : Model No. ST-120 Serial No. 181001608 : 28 Jul 2023 Date Received Test Period : 31 Jul 2023 to 31 Jul 2023 : Performance checking for Sound Level Calibrator **Test Requested** Test Method : The Sound Level Meter and Calibrator has been calibrated in accordance with the documented procedures and using standard and instrument which are recommended by the manufacturer, or equivalent. **Test conditions** : Room Temperature: 22-25 degree Celsius Relative Humidity: 35-70%

Remark : 1. Information of the sample description provided by the Applicant.

: Refer to the test result(s) on page 2.

2. The result(s) relate only to the items tested or calibrated.

For and on behalf of HIGH PRECISION CHEMICAL TESTING LIMITED

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Lee Wai Kit Laboratory Manager

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Issue Date : 02 Aug 2023

Report No.:00393Application No.:HP00275

Certificate of Calibration

Measuring equipment

Sound Calibrator	
Brüel & Kjær	
TYPE 4231	
2326353	
N-02-01	
Sound Meter	
SVANTEK	
SVAN 977	
92677	
10352	
N-14-01	

Test Result

Reference value, dB	Indication value, dB	Deviation, dB	Allowed deviation, dB
94.0	94.1	+ 0.1	± 0.3
114.0	114.2	+ 0.2	± 0.5

- Note : 1. "Instrument Readings" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.
 - 2. The indication value was obtained from the average of ten replicated measurement.

- End of report -