

RECALIBRATION DUE DATE:

October 21, 2020

Certificate of Calibration

Calibration Certification Information

Cal. Date: October 21, 2019

Rootsmeter S/N: 438320

Ta: 295

°K

Operator: Jim Tisch

Pa: 744.2

mm Hg

Calibration Model #:

TE-5025A

Calibrator S/N: 2456

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.4200	3.2	2.00
2	3	4	1	1.0180	6.3	4.00
3	5	6	1	0.9030	7.9	5.00
4	7	8	1	0.8620	8.8	5.50
5	9	10	1	0.7120	12.6	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)			
0.9849	0.6936	1.4066	0.9957	0.7012	0.8904			
0.9808	0.9635	1.9892	0.9915	0.9740	1.2592			
0.9787	1.0838	2.2240	0.9894	1.0957	1.4078			
0.9775	1.1340	2.3325	0.9882	1.1464	1.4765			
0.9724	1.3658	2.8131	0.9831	1.3807	1.7808			
	m=	2.08799		m=	1.30746			
QSTD	b=	-0.03545	45 QA		-0.02244			
	r=	0.99989		r=	0.99989			

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

	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· slone	

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

FAX: (513)467-9009



Room 723 & 725, 7/F, Block B, Profit Industrial Building, 1-15 Kwai Fung Crescent, Kwai Fong, Hong Kong.

TSP SAMPLER CALIBRATION CALCULATION SPREADSHEET

Project : Contract No. HY/2019/01 - Hong Kong-Zhuhai-Macao Bridge Date of Calibration: 27-Jul-20

Location : AMS2

Next Calibration Date: 26-Oct-20

Brand: Tisch Technician: Sam Fong

Model: TE-5170 S/N: HVS-01

CONDITIONS

Sea Level Pressure (hPa): 1006.4 Corrected Pressure (mm Hg): 755

Temperature (°C): 30.5 Temperature (K): 304

CALIBRATION ORIFICE

Make: Tisch Qstd Slope: 2.08799

Model: TE-5025A Qstd Intercept: -0.03545

Calibration Date: 21-Oct-19 Expiry Date: 21-Oct-20

S/N: 2456

CALIBRATION

Plate No.	H2O (L)	H2O (R)	H2O	Qstd	I	IC		LINEAR	
Flate No.	(in)	(in)	(in)	(m³/min)	(chart)	(corrected)	F	REGRESSION	
18	6.80	-6.40	13.200	1.735	56.00	55.30	Slope =	29.3988	
13	4.50	-5.20	9.700	1.490	50.00	49.38	Intercept =	4.7982	
10	3.40	-4.00	7.400	1.304	44.00	43.45	Corr. coeff.=	0.9980	
7	1.20	-3.80	5.000	1.075	36.00	35.55			
5	0.80	-2.20	3.000	0.836	30.00	29.63			

Calculations:

Qstd = 1/m[Sqrt(H2O(Pa/Pstd)(Tstd/Ta))-b]

IC = I[Sqrt(Pa/Pstd)(Tstd/Ta)]

Qstd = standard flow rate

IC = corrected chart response

I = actual chart response

m = calibrator Qstd slope

b = calibrator Qstd intercept

Ta = actual temperature during calibration (deg K)

Pa = actual pressure during calibration (mm Hg)

Tstd = 298 deg K

Pstd = 760 mm Hg

For subsequent calculation of sampler flow:

1/m((I)[Sqrt(298/Tav)(Pav/760)]-b)

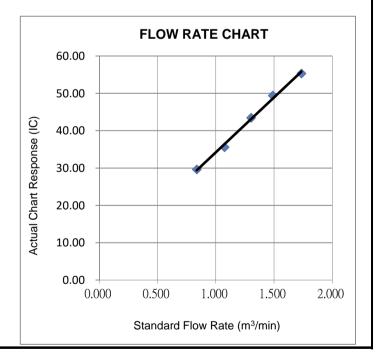
m = sampler slope

b = sampler intercept

I = chart response

Tav = daily average temperature

Pav = daily average pressure



- Tory

Wan Ka Ho

Project Consultant

Report Date: 28/7/2020



Room 723 & 725, 7/F, Block B, Profit Industrial Building, 1-15 Kwai Fung Crescent, Kwai Fong, Hong Kong.

Next Calibration Date: 26-Oct-20

TSP SAMPLER CALIBRATION CALCULATION SPREADSHEET

Project : Contract No. HY/2019/01 - Hong Kong-Zhuhai-Macao Bridge Date of Calibration: 27-Jul-20

Location : AMS3C

Brand: Tisch Technician: Sam Fong

Model: TE-5170 S/N: HVS-02

CONDITIONS

Sea Level Pressure (hPa): 1006.4 Corrected Pressure (mm Hg): 755

Temperature (°C): 30.5 Temperature (K): 304

CALIBRATION ORIFICE

Make: Tisch Qstd Slope: 2.08799

Model: TE-5025A Qstd Intercept: -0.03545

Calibration Date: 21-Oct-19 Expiry Date: 21-Oct-20

S/N: 2456

CALIBRATION

	O/LIDIO (110)								
Plate No.	H2O (L)	H2O (R)	H2O	Qstd	I	IC		LINEAR	
Flate No.	(in)	(in)	(in)	(m³/min)	(chart)	(corrected)	F	REGRESSION	
18	7.20	-5.80	13.000	1.722	58.00	57.28	Slope =	34.4066	
13	6.20	-4.80	11.000	1.586	52.00	51.35	Intercept =	-2.7672	
10	5.60	-3.20	8.800	1.420	46.00	45.43	Corr. coeff.=	0.9982	
7	4.40	-2.20	6.600	1.232	40.00	39.50			
5	3.00	-1.20	4.200	0.986	32.00	31.60			

Calculations:

Qstd = 1/m[Sqrt(H2O(Pa/Pstd)(Tstd/Ta))-b]

IC = I[Sqrt(Pa/Pstd)(Tstd/Ta)]

Qstd = standard flow rate

IC = corrected chart response

I = actual chart response

m = calibrator Qstd slope

b = calibrator Qstd intercept

Ta = actual temperature during calibration (deg K)

Pa = actual pressure during calibration (mm Hg)

Tstd = 298 deg K

Pstd = 760 mm Hg

For subsequent calculation of sampler flow:

1/m((I)[Sqrt(298/Tav)(Pav/760)]-b)

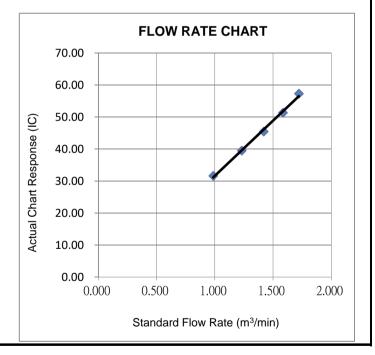
m = sampler slope

b = sampler intercept

I = chart response

Tav = daily average temperature

Pav = daily average pressure



- Tory

Wan Ka Ho

Project Consultant

Report Date: 28/7/2020



Room 723 & 725, 7/F, Block B, Profit Industrial Building, 1-15 Kwai Fung Crescent, Kwai Fong, Hong Kong.

TSP SAMPLER CALIBRATION CALCULATION SPREADSHEET

Project: Contract No. HY/2019/01 - Hong Kong-Zhuhai-Macao Bridge Date of Calibration: 27-Jul-20

Location: AMS7B

Next Calibration Date: 26-Oct-20

Brand: Tisch Technician: Sam Fong

Model: TE-5170 S/N: HVS-03

CONDITIONS

Sea Level Pressure (hPa): 1006.4 Corrected Pressure (mm Hg): 755

Temperature (°C): 30.5 Temperature (K): 304

CALIBRATION ORIFICE

CALIBRATION

Tisch **Qstd Slope:** 2.08799 Make: Model: TE-5025A **Qstd Intercept:** -0.03545

Calibration Date: 21-Oct-19 **Expiry Date:** 21-Oct-20

S/N: 2456

H2O (R) H2O Qstd IC LINEAR

	(in)	(in)	(in)	(m³/min)	(chart)	(corrected)	F	REGRESSION	
18	7.00	-6.20	13.200	1.735	56.00	55.30	Slope =	34.0396	
13	6.20	-5.20	11.400	1.614	52.00	51.35	Intercept =	-3.6848	
10	5.40	-3.40	8.800	1.420	46.00	45.43	Corr. coeff.=	0.9964	
7	4.20	-2.60	6.800	1.250	38.00	37.53			
5	2.70	-1.80	4.500	1.020	32.00	31.60			

Calculations:

Plate No.

Qstd = 1/m[Sqrt(H2O(Pa/Pstd)(Tstd/Ta))-b]

H2O (L)

IC = I[Sqrt(Pa/Pstd)(Tstd/Ta)]

Qstd = standard flow rate

IC = corrected chart response

I = actual chart response

m = calibrator Qstd slope

b = calibrator Qstd intercept

Ta = actual temperature during calibration (deg K)

Pa = actual pressure during calibration (mm Hg)

Tstd = 298 deg K

Pstd = 760 mm Hg

For subsequent calculation of sampler flow:

1/m((I)[Sqrt(298/Tav)(Pav/760)]-b)

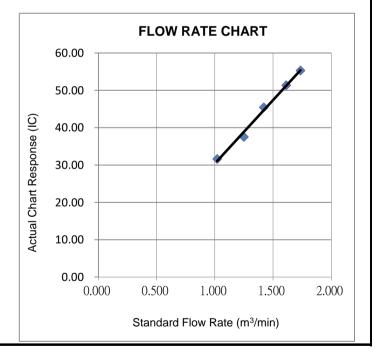
m = sampler slope

b = sampler intercept

I = chart response

Tav = daily average temperature

Pav = daily average pressure



TORY

Wan Ka Ho

Project Consultant

Report Date: 28/7/2020



Room 723 & 725, 7/F, Block B, Profit Industrial Building, 1-15 Kwai Fung Crescent, Kwai Fong, Hong Kong.

CALIBRATION REPORT OF WIND METER

Project: Co Location:	Contract No. HY/2019/01 - Hong Kong-Zhuhai-Macao Bridge n: AMS3C			Date of Calibration: Next Calibration Date: Technician:	2-Jul-2020 1-Jan-2021 Ting Chan	
Brand:	Global Water	0/11	4047000400		J	
Model:	GL500-7-2	S/N:	1847003409			
Brand:	Benetech		Anemometer			
Model:	GM816	Equipment ID:	08			
			Dragaduras			
			Procedures:			
1.	Wind Still Test:	The wind speed s	sensor was held by hand until	stabilized.		
2.	Wind Speed Test:	The wind meter was calibrated in-situ and compared with the Anemometer.				
3.	Wind Direction Test:	The wind meter was calibrated in-situ and compared with a marine compass from four directions.				

Wind Still Test:

Wind Speed (m/s)
0.00

Wind Speed Test:

Global Water (m/s)	Anemometer (m/s)
0.9	0.5
2.4	2.6
3.4	3.8

Wind Direction Test:

Global Water (o)	Marine Compass (o)
0	358
247	244
173	172
80	79

- Toky	Report Date:	3/7/2020
Wan Ka Ho Project Consultant	•	



Fugro Development Centre 5 Lok Yi Street, Tai Lam Tuen Mun, NT Hong Kong

Report No.: 183057CA200894(3)

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CALIBRATION CERTIFICATE OF ANEMOMETER

Client Supplied Information

Client: Fugro Technical Services Ltd.

Project: Calibration Services

Details of Unit Under Test, UUT

Description

Anemometer

Manufacturer:

Benetech

Model No.

GM816

Serial No.

N/A

Equipment ID.:

WS-08

Next Calibration Date :

14-Jun-2021

Laboratory Information

Details of Reference Equipment -

Description

Reference Anemometer

Equipment ID.:

R-101-4

Date of Calibration

15-Jun-2020

Ambient Temperature :

22 °C

Calibration Location :

Calibration Laboratory of FTS

Method Used: R-C-279

Calibration Results:

Reference Reading	UUT Reading	Error
(m/s)	(m/s)	(m/s)
2.02	2.0	0.0
4.15	4.1	-0.1
6.27	6.0	-0.3
8.43	8.0	-0.4
10.75	10.1	-0.7

Remark:

- 1. The equipment being used in this calibration is traceable to recognized National Standards.
- 2. The reported readings in this calibration are an average from 10 trials.

Checked by:	Date: 20-6-2016	Certified by :	& Th Toung	_ Date :	20-6-2020
CA-R-297 (22/07/2009)		Le	ung Kwok Tai (Ass	istant Mar	nager)



Fugro Development Centre 5 Lok Yi Street, Tai Lam Tuen Mun, NT Hong Kong

Report no.: 940891CA200109(14)

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CALIBRATION CERTIFICATE OF DUST METER

Client : Fugro Technical Services Limited

Project : Calibration Services

Client Supplied Information

Details of Unit Under Test, UUT

Description

: Laser dust monitor

Manufacturer

: SIBATA

Model No.

: LD-5R

Serial No.

: 761105

Specification Limit

: NA

Next Calibration Date : 05-Dec-2020

Laboratory Information

Description

: TSP high volume air sampler

Serial No.

: 4350

Date of Calibration

: 06-Dec-2019

Ambient Temperature : 26 °C

Calibration Location : Ma Wan A1 Site Boundary

Method Used

: By direct comparison the weight of dust particle trapped in a filter paper using high

volume sampler (TSP method) for a certain period, with the reading of the UUT. They should be placed at the same location and powered on and off at the same time.

Calibration Results:

Reference concentration (mg/m³)	Total count for 1 hour	CPM (Count per minute)
0.0393	1260	21.00
0.0681	1519	25.32
0.0504	1327	22.12

Remarks:

1. The equipment being used in this calibration is traceable to recognized National Standards.

2. The interpolation equation: Concentration $(mg/m^3) = K \times [UUT reading (CPM)], where K = 0.002306$

3. Correlation coefficient (r):

0.9906

Date: 10-2-2020 Certified by: (L. Jourg Date: 10-2-2020 Checked by: CA-R-297 (22/07/2009) Leung Kwok Tai (Assistant Manager)



Fugro Development Centre 5 Lok Yi Street, Tai Lam Tuen Mun, NT Hong Kong

Report no.: 940891CA200109(12)

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CALIBRATION CERTIFICATE OF DUST METER

Client : Fugro Technical Services Limited

Project : Calibration Services

Client Supplied Information

Details of Unit Under Test, UUT

Description

: Laser dust monitor

Manufacturer

: SIBATA

Model No.

· 1D-5R

Serial No.

: 882149

Specification Limit

: NA

Next Calibration Date : 05-Dec-2020

Laboratory Information

Description

: TSP high volume air sampler

Serial No.

: 4350

Date of Calibration

: 06-Dec-2019

Ambient Temperature : 26 °C

Calibration Location : Ma Wan A1 Site Boundary

Method Used

: By direct comparison the weight of dust particle trapped in a filter paper using high

volume sampler (TSP method) for a certain period, with the reading of the UUT. They should be placed at the same location and powered on and off at the same time.

Calibration Results:

oundration (toodito)		
Reference concentration (mg/m³)	Total count for 1 hour	CPM (Count per minute)
0.0393	1511	25.18
0.0681	1799	29.98
0.0504	1590	26.50

Remarks:

1. The equipment being used in this calibration is traceable to recognized National Standards.

2. The interpolation equation: Concentration $(mg/m^3) = K \times [UUT reading (CPM)]$, where K = 0.001932

3. Correlation coefficient (r):

0.9927

Checked by:

Date: 10-2-2020 Certified by: [T. Joung Date: 10-2-2020

CA-R-297 (22/07/2009)

Leung Kwok Tai (Assistant Manager)



Fugro Development Centre 5 Lok Yi Street, Tai Lam Tuen Mun, NT Hong Kong

Report no.: 940891CA201915

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CALIBRATION CERTIFICATE OF DUST METER

Client : Fugro Technical Services Limited

Project : Calibration Services

Client Supplied Information

Details of Unit Under Test, UUT

Description

: Laser dust monitor

Manufacturer

: SIBATA

Model No.

: LD-5R

Serial No.

: 892187

Specification Limit

: NA

Next Calibration Date : 13-Aug-2021

Laboratory Information

Description

: TSP high volume air sampler

Serial no.

: 4350

Date of Calibration

: 14-Aug-2020

Ambient Temperature : 33 °C

Calibration Location : Ma Wan A1 Site Boundary

Method Used

: By direct comparison the weight of dust particle trapped in a filter paper using high volume sampler (TSP method) for a certain period, with the reading of the UUT. They

should be placed at the same location and powered on and off at the same time.

Calibration Results:

Reference concentration (mg/m³)	Total count for 1 hour	CPM (Count per minute)
0.0632	1573	26.22
0.0687	1608	26.80
0.0543	1473	24.55

Remarks:

1. The equipment being used in this calibration is traceable to recognized National Standards.

2. The interpolation equation: Concentration (mg/m³) = K x [UUT reading (CPM)], where K = 0.002401

3. Correlation coefficient (r):

0.9908

Chang Date: 16-9-2020 Certified by: 17 Jung Date: 21-9-2020 Checked by: CA-R-297 (22/07/2009) Leung Kwok Tai (Assistant Manager)





Fugro Development Centre 5 Lok Yi Street, Tai Lam Tuen Mun, NT Hong Kong

Report no.: 203258CA201700(1) Page 1 of 1

CALIBRATION CERTIFICATE OF SOUND LEVEL METER

Client Supplied Information

Client: Fugro Technical Services Ltd.

Project: Calibration Services **Details of Unit Under Test, UUT**

Description

Sound Level Meter

Manufacturer

Casella

Model No.

Serial No.

Meter Microphone Preamplifier CEL-63X CE-251 CEL-495 1488270 04228 004030

Equipment ID

N/A

Next Calibration Date

26-Aug-2021

Specification Limit

EN 61672-1: 2003 Class 1

Laboratory Information

Details of Reference Equipment -

Description

B & K Acoustic Multifunction Calibrator 4226 (Traditional free field setting)

Equipment ID. :

R-108-1

Date of Calibration : 27-Aug-2020

Calibration Location: Calibration Laboratory of FTS

Ambient Temperature

20±2 °C

Method Used

By direct comparison

Relative Humidity

: <80% R.H.

Calibration Results:

Parame	ters	Mean Value (dB)	Specification Limit(d		Limit(dB)
	4000Hz	1.1	2.6	to	-0.6
	2000Hz	1.2	2.8	to	-0.4
	1000Hz	-0.1	1.1	to	-1.1
A-weigthing frequency	500Hz	-3.4	-1.8	to	-4.6
response	250Hz	-8.8	-7.2	to	-10.0
	125Hz	-16.2	-14.6	to	-17.6
	63Hz	-26.2	-24.7	to	-27.7
	31.5Hz	-39.1	-37.4	to	-41.4
Differential level	94dB-104dB	0.1		± 0.6	3
linearity	104dB-114dB	0.0		± 0.6	3

Remarks:

- 1. The equipment used in this calibration is traceable to recognized National Standards.
- 2. The mean value is the average of four measurements.
- 3. For calibration: Reference SPL are 94, 104 & 114dB, range setting is 20-140dB & time weighting is fast
- 4. The UUT complies with EN 61672-1: 2003 Class 1 sound level meter for the above measurement.
- 5 The values given in this Calibration Certificate only relate to the values at the time of the test and any uncertainties will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during tranportation, overloading, mis-handling or the capability of any other laboratory to repeat the measurement.

Checked by:_ CA-R-297 (22/07/2009)

9) Date: 3-9-2020 Certified by: KT Joung Date: 3-9-2020 Leung Kwok Tai (Assistant Manager)

** End of Report **

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Fugro Development Centre 5 Lok Yi Street, Tai Lam Tuen Mun, NT Hong Kong

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Report no.: 183057CA196458

CALIBRATION CERTIFICATE OF SOUND LEVEL METER

Client Supplied Information

Client: Fugro Technical Services Ltd.

Project: Calibration Services Details of Unit Under Test, UUT

Description

Sound Level Meter

Manufacturer

Casella

Model No.

Serial No.

:

Equipment ID

N/A

Next Calibration Date

21-Nov-2020

Specification Limit

EN 61672: 2003 Type 1

Meter

CEL-63X

2451048

Laboratory Information

Details of Reference Equipment -

Description

B & K Acoustic Multifunction Calibrator 4226 (Traditional free field setting)

Microphone

CE-251

02789

Equipment ID. :

R-108-1

Date of Calibration:

22-Nov-2019

Ambient Temperature: 22 °C

Preamplifier

CEL-495

004065

Calibration Location: Calibration Laboratory of FTS

Method Used

By direct comparison

Calibration Results:

Parame	ters	Mean Value (dB)	Specification Limit(d		Limit(dB)
	4000Hz	1.9	2.6	to	-0.6
	2000Hz	1.5	2.8	to	-0.4
	1000Hz	0.0	1.1	to	-1.1
A-weigthing	500Hz	-3.4	-1.8	to	-4.6
frequency response	250Hz	-8.8	-7.2	to	-10.0
ТСОРОПОС	125Hz	-16.2	-14.6	to	-17.6
	63Hz	-26.2	-24.7	to	-27.7
	31.5Hz	-38.9	-37.4	to	-41.4
Differential level	94dB-104dB	0.0		± 0.6	3
linearity	104dB-114dB	0.0		± 0.6	3

Remarks:

- 1. The equipment used in this calibration is traceable to recognized National Standards.
- 2. The mean value is the average of four measurements.
- 3. For calibration: Reference SPL are 94, 104 & 114dB, range setting is 20-140dB & time weighting is fast
- 4. The equipment does comply with EN 61672: 2003 Type 1 sound level meter for the above measurement.

Millian Date: 37-1(-2019 Certified by: CA-R-297 (22/07/2009)



Fugro Development Centre 5 Lok Yi Street, Tai Lam Tuen Mun, NT Hong Kong

Report no.: 183057CA200018(1)

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CALIBRATION CERTIFICATE OF SOUND CALIBRATOR

Client Supplied Information

Client: Fugro Technical Services Ltd.

Project: Calibration Services Details of Unit Under Test, UUT

Description

Sound Calibrator

Manufacturer

Casella (Model CEL-120/1)

Serial No.

2383886

Equipment ID

N/A

Next Calibration Date :

12-Jan-2021 EN 60942: 2003 Type 1

Laboratory Information

Specification Limit

Description

Reference Sound level meter

Equipment ID.

R-119-1

Date of Calibration:

13-Jan-2020

Ambient Temperature: 22

°C

Calibration Location: Calibration Laboratory of FTS

Method Used

By direct comparison

Calibration Results:

Parameters (Setting of UUT)	Mean Value (error of measurement)	Specification Limit(dB)
94dB	-0.2 dB	10.4dD
114dB	-0.1 dB	±0.4dB

Remarks:

- 1. The equipment used in this calibration is traceable to recognized National Standards.
- 2. The mean value is the average of four measurements.
- 3. The equipment does comply with the specification limit.
- 4. The values given in this Calibration Certificate only relate to the values at the time of the test and any uncertainties will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during tranportation, overloading, mis-handling or the capability of any other laboratory to repeat the measurement.

Checked by :	William	Date :	20-1-2020	Certified by :_	KITOUNG	Date :	21-1	-202
CA-R-297 (22/07/2009	9)			Leung	g Kwok Tai (Assist	ant Mana	iger)	



Fugro Development Centre 5 Lok Yi Street, Tai Lam Tuen Mun, NT Hong Kong

Report no.: 183057CA200894(1)

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CALIBRATION CERTIFICATE OF SOUND CALIBRATOR

Client Supplied Information

Client: Fugro Technical Services Ltd.

Project: Calibration Services Details of Unit Under Test, UUT

Description

Sound Calibrator

Manufacturer

Casella (Model CEL-120/1)

Serial No.

3321858

Equipment ID

N/A

Next Calibration Date :

14-Jun-2021

Specification Limit

EN 60942: 2003 Type 1

Laboratory Information

Description

Reference Sound level meter

Equipment ID.

R-119-1

Date of Calibration:

15-Jun-2020

Ambient Temperature: 22

°C

Calibration Location: Calibration Laboratory of FTS

Method Used :

By direct comparison

Calibration Results:

Odlibidion itoodito.		
Parameters (Setting of UUT)	Mean Value (error of measurement)	Specification Limit(dB)
94dB	-0.1 dB	±0.4dB
114dB	-0.1 dB	10.400

Remarks:

- 1. The equipment used in this calibration is traceable to recognized National Standards.
- 2. The mean value is the average of four measurements.
- 3. The equipment does comply with the specification limit.
- 4. The values given in this Calibration Certificate only relate to the values at the time of the test and any uncertainties will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during tranportation, overloading, mis-handling or the capability of any other laboratory to repeat the measurement.

Checked by: Nolliam Date: 20-6-2020 Certified by: Filleung Date: 20-6-2020 CA-R-297 (22/07/2009) Leung Kwok Tai (Assistant Manager)