

Report No. : 221149WA231732



Page 1 of 3

Report on Calibration of HORIBA Multifunction Meter**Information Supplied by Client**

Client : ENVIROTECH SERVICE COMPANY

Client's address : RM721, 7/F, MY LOFT, 9 HOI WING ROAD, TUEN MUN, N.T.,
HONG KONG**Calibration Item**Description : Multifunctional Meter
Manufacturer : HORIBA
Model : U-53
Serial No. : -
Equipment No. : KP23RRSM**Laboratory Information**

Lab. sample ID : WA231732/1

Date sample received : 28/07/2023

Date of calibration : 07/08/2023

Next calibration date : 06/11/2023

Test method used : In-house comparison method

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

Report No. : 221149WA231732

Page 2 of 3

Results :
A. pH calibration

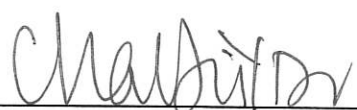
pH value at 25°C			
Theoretical	Measured	Deviation (pH value)	Maximum acceptable Deviation (pH value)
4.0	4.01	+0.01	±0.20
7.0	7.02	+0.02	
10.0	9.92	-0.08	

B. Salinity calibration

Salinity, ppt			
Theoretical	Measured	Deviation (%)	Maximum acceptable Deviation (%)
1	1.03	+3.0	±10.0
10	10.35	+3.5	
20	20.25	+1.3	
30	30.28	+0.93	
40	41.15	+2.9	

C. Dissolved Oxygen calibration

Dissolved oxygen content, mg/L			
Theoretical	Measured	Deviation (mg/L)	Maximum acceptable Deviation (mg/L)
7.77	7.88	+0.11	±0.20
6.18	6.02	-0.16	
4.55	4.36	-0.19	

Certified by : 
 Approved Signatory : CHAN Hoi Yan, Winnie
 Assistant Manager

Date : 23.8.2023

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

Report No. : 221149WA231732

Results :

D. Temperature calibration

Temperature, °C			
Thermometer reading	Measured	Deviation (°C)	Maximum acceptable Deviation (°C)
22.5	22.55	+0.05	±2.0

E. Turbidity calibration

Turbidity, N.T.U.			
Theoretical	Measured	Deviation (%)	Maximum acceptable Deviation (%)
0	0	-	±10.0
40	43.8	+9.5	
80	83.1	+3.9	
400	406	+1.5	
800	818	+2.3	

F. Conductivity calibration

Conductivity, µS/cm			
Theoretical	Measured	Deviation (%)	Maximum acceptable Deviation (%)
147	149	+1.3	±10.0
1408	1490	+5.8	
6668	6650	-0.27	
12860	13000	+1.1	
24820	24800	-0.08	

Certified by : *Chan Hoi Yan*
 Approved Signatory : CHAN Hoi Yan, Winnie
 Assistant Manager

Date : 23-8-2013
 ** End of Report **

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

Report No. : 221149WA232370A



Page 1 of 3

Report on Calibration of HORIBA Multifunction Meter**Information Supplied by Client**

Client : ENVIROTECH SERVICE COMPANY
Client's address : RM712, 7/F, MY LOFT, 9 HOI WING ROAD, TUEN MUN, N.T.,
HONG KONG

Calibration Item

Description : Multifunctional Meter
Manufacturer : HORIBA
Model : U-53
Serial No. : -
Equipment No. : FXMONLLF

Laboratory Information

Lab. sample ID : WA232370/1
Date sample received : 19/10/2023
Date of calibration : 01/11/2023
Next calibration date : 31/01/2024
Test method used : In-house comparison method

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

Report No. : 221149WA232370A

Page 2 of 3

Results :**A. pH calibration**

pH value at 25°C			
Theoretical	Measured	Deviation (pH value)	Maximum acceptable Deviation (pH value)
4.0	3.99	-0.01	±0.20
7.0	7.02	+0.02	
10.0	9.98	-0.02	

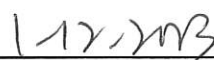
B. Salinity calibration

Salinity, ppt			
Theoretical	Measured	Deviation (%)	Maximum acceptable Deviation (%)
1	1.02	+0.02	±10.0
10	10.31	+3.0	
20	20.42	+2.1	
30	30.23	+0.77	
40	40.95	+4.0	

C. Dissolved Oxygen calibration

Dissolved oxygen content, mg/L			
Theoretical	Measured	Deviation (mg/L)	Maximum acceptable Deviation (mg/L)
7.78	7.96	+0.18	±0.20
4.76	4.89	+0.13	
2.25	2.14	-0.11	

Remarks: This report is to supersede our former report 221149WA232370.

Certified by : 
Approved Signatory : CHAN Hoi Yan, Winnie
Assistant ManagerDate : *Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.*

Report No. : 221149WA232370A

Page 3 of 3

Results :
D. Temperature calibration

Temperature, °C			
Thermometer reading	Measured	Deviation (°C)	Maximum acceptable Deviation (°C)
20.0	20.14	+0.14	±2.0

E. Turbidity calibration

Turbidity, N.T.U.			
Theoretical	Measured	Deviation (%)	Maximum acceptable Deviation (%)
4	4.09	+2.3	±10.0
40	40.6	+1.5	
80	80.3	+0.38	
400	404	+1.0	
800	801	+0.13	

F. Conductivity calibration

Conductivity, µS/cm			
Theoretical	Measured	Deviation (%)	Maximum acceptable Deviation (%)
147	151	+2.7	±10.0
1408	1420	+0.52	
6668	6450	-3.3	
12860	12920	+0.47	
24820	25200	+1.5	

Remarks: This report is to supersede our former report 221149WA232370.

 Certified by : 
 Approved Signatory : CHAN Hoi Yan, Winnie
 Assistant Manager

 Date : 1-12-2013
**** End of Report ****
Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.