

Report No. : 221149WA230319



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**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. : LuAVCDWu  
Equipment No. : FXMONLLF

**Laboratory Information**

Lab. sample ID : WA230319/1  
Date sample received : 15/02/2023  
Date of calibration : 27/02/2023  
Next calibration date : 26/05/2023  
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.*

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**Results :**
**A. pH calibration**

pH value at 25°C			
Theoretical	Measured	Deviation (pH value)	Maximum acceptable Deviation (pH value)
4.0	3.98	-0.02	±0.20
7.0	6.97	-0.03	
10.0	9.97	-0.03	

**B. Salinity calibration**

Salinity, ppt			
Theoretical	Measured	Deviation (%)	Maximum acceptable Deviation (%)
1	1.03	+3	±10.0
10	10.37	+3.7	
20	20.02	+0.1	
30	29.19	-2.7	
40	39.25	-1.9	

**C. Dissolved Oxygen calibration**

Dissolved oxygen content, mg/L			
Theoretical	Measured	Deviation (mg/L)	Maximum acceptable Deviation (mg/L)
8.45	8.50	-0.05	±0.20
5.17	5.33	+0.16	
3.25	3.38	+0.13	

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

 Date : 14-3-2023
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**Results :**

**D. Temperature calibration**

Temperature, °C			
Thermometer reading	Measured	Deviation (°C)	Maximum acceptable Deviation (°C)
25.0	25.13	+0.13	±2.0

**E. Turbidity calibration**

Turbidity, N.T.U.			
Theoretical	Measured	Deviation (%)	Maximum acceptable Deviation (%)
4	4.01	+0.25	±10.0
8	7.77	-2.9	
40	43.1	+7.8	
80	86.6	+8.3	

**F. Conductivity calibration**

Conductivity, µS/cm			
Theoretical	Measured	Deviation (%)	Maximum acceptable Deviation (%)
147	143	-2.7	±10.0
1408	1430	+1.6	
6668	6580	-1.3	
12860	13000	+1.1	
24820	24700	-0.49	

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

Date : 14-3-2023

**\*\* End of Report \*\***

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**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. : FXMONLLF**Laboratory Information**

Lab. sample ID : WA231108/1

Date sample received : 10/05/2023

Date of calibration : 13/05/2023

Next calibration date : 12/08/2023

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.*

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**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	7.00	0	
10.0	10.00	0	

**B. Salinity calibration**

Salinity, ppt			
Theoretical	Measured	Deviation (%)	Maximum acceptable Deviation (%)
1	1.04	+4.0	±10.0
10	10.35	+3.5	
20	20.81	+4.0	
30	30.85	+2.8	
40	41.93	+4.8	

**C. Dissolved Oxygen calibration**

Dissolved oxygen content, mg/L			
Theoretical	Measured	Deviation (mg/L)	Maximum acceptable Deviation (mg/L)
8.44	8.60	+0.16	±0.20
7.52	7.58	+0.06	
4.54	4.53	-0.01	

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

 Date : 25-5-2023
*Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.*

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**Results :**

**D. Temperature calibration**

Temperature, °C			
Thermometer reading	Measured	Deviation (°C)	Maximum acceptable Deviation (°C)
25.1	25.0	-0.1	±2.0

**E. Turbidity calibration**

Turbidity, N.T.U.			
Theoretical	Measured	Deviation (%)	Maximum acceptable Deviation (%)
0	0.01	-	±10.0
40	38	-5.0	
80	81	+1.3	
400	433	+8.3	
800	796	-0.5	

**F. Conductivity calibration**

Conductivity, µS/cm			
Theoretical	Measured	Deviation (%)	Maximum acceptable Deviation (%)
147	150	+2.0	±10.0
1408	1450	+3.0	
6668	6710	+0.6	
12860	13200	+2.6	
24820	25900	+4.4	

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

Date : 25/5/2013  
 \*\* End of Report \*\*

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