Requisition No: RDKL/WW/2324/SR00122, 123, 124 & SR00127

Parameter = NH_3-N
No. of Sample = 12
Date of collection = 19/02/2024, 21/02/2024, 23/02/2024
Date of analysis = 21/02/2024, 26/02/2024
Name of Supervisor = Md. A. Hafique

S.No	Sample code	Vol of Sample	I.R. (mL)	F.R (mL)	Difference (mL)	A-B (mL)	NH_3-N (mg/L)
01	L00412	100 mL	0	4.5	4.5	4.5	13.3 ≈ 13
02	L00413	"	4.5	7.9	3.4	3.4	10
03	L00408	"	8.0	12.0	4.0	4.0	11.8 ≈ 12
04	L00409	"	12.0	16.9	4.9	4.9	14.5 ≈ 14
05	L00410	"	17.0	20.5	3.5	3.5	10.3 ≈ 10
06	L00414	"	0	5.0	5.0	5.0	14.8 ≈ 15
07	L00415	"	5.0	9.9	4.9	4.9	14.5 ≈ 14
08	L00416	"	10.0	14.9	4.9	4.9	14.5 ≈ 14
09	L00421	"	15.0	16.9	1.9	1.9	5.6 ≈ 6
10	L00423	"	17.0	18.2	1.2	1.2	3.5 ≈ 3
11	L00424	"	18.5	20.6	2.1	2.1	6.2 ≈ 6
12	L00425	"	20.6	21.8	1.2	1.2	3.5 ≈ 3
13	Blank	200 mL	0	0	0	0	—
14	Std (20 mg/L)	100 mL	0	6.7	6.7	6.7	19.8

Calculation

$$NH_3\text{-N (mg/L)} = \frac{(A-B) \times 14 \times 1000 \times N}{\text{volume of sample}}$$

A = Volume of H_2SO_4 titrated for sample
B = " " " " " Blank
23.5 mL of H_2SO_4 consumed by 10 mL of 0.05 N Na_2CO_3

$$\text{strength} = \frac{0.05 \times 10}{23.5} = 0.0212 \text{ N}$$