

Requisition No. = RDKL/WW/2324/SR00102 & 103

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Job card No = RDKL/2324/WW/300595 & 300603

Parameter = $\text{NH}_3\text{-N}$

No. of Sample = 07

Date of collection = 24/01/2024

Date of analysis = 05/02/2024

Name of supervisor = Md. A. Rafique

S.No	Sample code	Vol. of Sample	I.R (mL)	F.R (mL)	Difference A-B (mL)		$\text{NH}_3\text{-N}$ (mg/L)
01	L00349	100 ml	0.0	4.3	4.3	4.3	12.4 \approx 12
02	L00350	"	4.3	8.5	4.2	4.2	12.1 \approx 12
03	L00351	"	8.5	13.4	4.9	4.9	14.2 \approx 14
04	L00352	"	13.4	18.2	4.8	4.8	13.9 \approx 14
05	L00353	"	18.2	21.9	3.7	3.7	10.7 \approx 11
06	L00354	"	22.0	23.7	1.7	1.7	4.9 \approx 5
07	L00355	"	23.7	29.8	6.1	6.1	17.6 \approx 18
08	Blank	200 ml	0	0	0	0	-
09	std (20 mg/L)	100 ml	0	6.8	6.8	6.8	19.7

Repeat analysis

S.No	Sample code	Vol. of Sample	I.R (mL)	F.R (mL)	Difference A-B (mL)		$\text{NH}_3\text{-N}$ (mg/L)
01	L00355	100 ml	0	6.2	6.2	6.2	17.9 \approx 18

Calculation

$$\text{NH}_3\text{-N (mg/L)} = \frac{(A-B) \times 14 \times 1000 \times N}{\text{Vol. of Sample}}$$

A = Volume of H_2SO_4 titrated for sample

24.1 mL of H_2SO_4 consumed by 10 mL of 0.05 N Na_2CO_3

$$\text{Strength} = \frac{0.05 \times 10}{24.1} = 0.0207 \text{ N}$$

Abhin

Quiss

05.02.24