

Job Card No = RDKL/2324/WW/J00027 & J00041

sample requisition No = RDKL/WW/2324/SR00017 & SR00019 67

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

No. of Sample = 06

Date of collection = 10/10/2023 & 11/10/2023

Date of analysis = 13/10/2023

Name of Supervisor = Md. A. Rafique

S.No	Sample code	Vol of Sample	I.R (ML)	F.R (ML)	Difference (ML)	A-B (ML)	$\text{NH}_3\text{-N}$ (mg/L)
01	L00016	100 mL	0	2.5	2.5	2.5	$7.4 \approx 7$
02	L00019	"	2.5	4.1	1.6	1.6	$4.7 \approx 5$
03	L00020	"	4.1	5.1	1.0	1.0	$2.9 \approx 3$
04	L00021	"	5.1	5.3	0.2	0.2	$0.6 \approx \text{BLQ}$
05	L00022	"	5.5	9.4	3.9	3.9	$11.5 \approx 11$
06	L00024	"	9.5	12.7	3.2	3.2	$9.4 \approx 9$
07	Blank	200 mL	0	0	0	0	✓
08	Std (20 mg/L)	100 mL	0	6.7	6.7	6.7	19.7

Repeat analysis

S.No	Sample code	Vol of Sample	I.R (ML)	F.R (ML)	Difference (ML)	A-B (ML)	$\text{NH}_3\text{-N}$ (mg/L)
01	L00021	100 mL	0	0.1	0.1	0.1	0.3

Calculation

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

A = Volume of H_2SO_4 titrated for Sample

B = " " " " " Blank

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

$$\text{strength} = \frac{0.05 \times 10}{23.3} = 0.021 \text{ N}$$

A. Rafique
18.10.23