

Job Card No. - RDKL/2324/APP/J00267, J00271, J00273, J00277

Requisition No. - RDKL/APP/2324/SR00105, SR00106, SR00107, SR00108

Parameters - SO<sub>2</sub> (Amb.)

Total No. of Samples - 24

Date of Allocation - 12.02.24

Date of Sample Analysis - 12.02.24

Due Date of Result Submission - 16.02.24

Name of the Supervisor - Md. A. Rafique

Test method - IS 5182 (Part 2) : 2001

Sr. No.	Requisition No.	Sample Code	Total Vol. of Sample (ml)	Vol. of Sample Analyzed (ml)	Vol. of Air (L)	Abs at 560 nm	Conc. (µg/m <sup>3</sup> )
1	-	Blank	-	10 ml absorbing	-	0.011	-
2	SR00105	2324/RDKL/APP/GS2/L00447	30	10	240	0.016	6
3	SR00105	2324/RDKL/APP/GS2/L00448	30	10	150	0.012	BDL
4	SR00105	2324/RDKL/APP/GS2/L00449	30	10	240	0.012	BDL
5	SR00105	2324/RDKL/APP/GS2/L00450	30	10	240	0.012	BDL
6	SR00105	2324/RDKL/APP/GS2/L00451	30	10	240	0.013	BDL
7	SR00105	2324/RDKL/APP/GS2/L00452	30	10	210	0.015	5
8	SR00106	2324/RDKL/APP/GS2/L00453	30	10	230	0.012	BDL
9	SR00106	2324/RDKL/APP/GS2/L00454	30	10	228	0.013	BDL
10	SR00106	2324/RDKL/APP/GS2/L00455	30	10	240	0.013	BDL
11	SR00106	2324/RDKL/APP/GS2/L00456	30	10	240	0.012	BDL
12	SR00106	2324/RDKL/APP/GS2/L00457	30	10	240	0.012	BDL
13	SR00106	2324/RDKL/APP/GS2/L00458	30	10	234	0.015	5
14	SR00107	2324/RDKL/APP/GS2/L00459	30	10	180	0.013	3
15	SR00107	2324/RDKL/APP/GS2/L00460	30	10	240	0.012	BDL
16	SR00107	2324/RDKL/APP/GS2/L00461	30	10	240	0.012	BDL
17	SR00107	2324/RDKL/APP/GS2/L00462	30	10	240	0.012	BDL
18	SR00107	2324/RDKL/APP/GS2/L00463	30	10	240	0.012	BDL
19	SR00107	2324/RDKL/APP/GS2/L00464	30	10	221	0.012	BDL
20	SR00108	2324/RDKL/APP/GS2/L00465	30	10	203	0.013	3
21	SR00108	2324/RDKL/APP/GS2/L00466	30	10	180	0.012	BDL
22	SR00108	2324/RDKL/APP/GS2/L00467	30	10	240	0.012	BDL
23	SR00108	2324/RDKL/APP/GS2/L00468	30	10	240	0.012	BDL
24	SR00108	2324/RDKL/APP/GS2/L00469	30	10	240	0.012	BDL
25	SR00108	2324/RDKL/APP/GS2/L00470	30	10	226	0.012	BDL
26	-	Std. SO <sub>2</sub> (1 µg)	-	10	211	0.013	BDL
					-	0.021	-

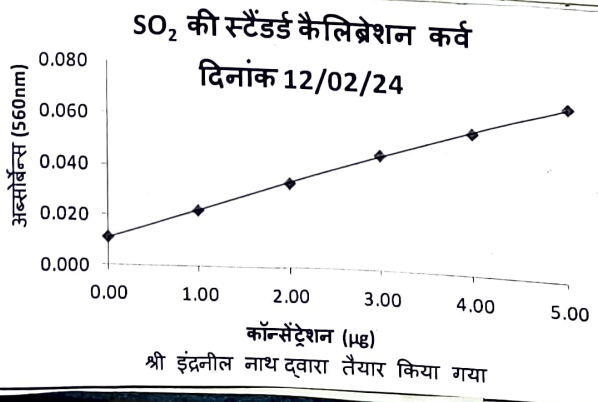
Calculation:  $SO_2 (\mu g/m^3) = \frac{Abs - Int}{Slope} \times \frac{Total Vol. of Sample (ml) \times 1000}{(Vol. of sample Analyzed (ml)) \times (Vol. of Air (L))}$

Slope = 0.0114

Intercept = 0.0107

Standard Calibration Curve:

कॉन्सेंट्रेशन (µg)	अब्सोर्बेंस (560nm)
0.00	0.011
1.00	0.022
2.00	0.033
3.00	0.045
4.00	0.056
5.00	0.068
स्लोप	0.0114
इंटरसेप्ट	0.0107
कोरिलेशन	0.9999



Indranil Nath  
12-02-24

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