

**TEST REPORT**

Report No : AZ0043753(0)

Date: 29 Sep 2020

Application No : LZ024916(0)

Applicant : SYN-TECH FUEL MANAGEMENT & TECHNOLOGY CO. LTD.  
UNIT 10, 15/F MING FAT INDUSTRIAL CENTRE  
NO 1 KIN FAT STREET  
TUEN MUN, N.T.  
HONG KONG

Sample Description : One (1) sample received from client - WOODTONIC ® Air Detoxifier.

Test Period : 10 Sep 2020 to 25 Sep 2020.

Test Requested : Removal Performance Test.  
1. Formaldehyde  
2. Ammonia  
3. Hydrogen Sulfide  
4. Benzene

Test Result : Refer to the results on page 3.

*For and on behalf of*  
CMA Industrial Development Foundation Limited

Authorized Signature : \_\_\_\_\_  
Lau Yan Kin  
Senior Manager

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### **Method**

Testing chemical reagent was added into the bubbler. The reagent was vaporized gradually and purged into two testing chamber, one for purifier sample and one for control sample. Testing gas was generated for 10 mins for stable generation. The first gas sample was collected at control chamber immediately; it is the initial gas concentration of the test. The concentration was controlled within 0.75 to 1.0ppm.

The concentrations of chemical reagents were measured by the below methods:

Formaldehyde: PPM Technology Formaldemeter htV-M (5 minutes per sample)

Ammonia : NIOSH 6015, active pump sampling (30 minutes per sample)

Hydrogen Sulfide: Portable H<sub>2</sub>S Analyzer System - Jerome 605 (5 minutes per sample)

Benzene: ppbRAE 3000 Portable Handheld VOC Monitor (5 minutes per sample)

The final sample was collected at 60 minutes. Two results were recorded and removal efficiency was calculated as the following:

$$\% \text{ Removal efficiency} = \frac{\text{initial concentration} - \text{final concentration}}{\text{initial concentration}} \times 100\%$$

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### Results

| Parameter        | Unit | Run time (min) | Results | Removal % |
|------------------|------|----------------|---------|-----------|
| Formaldehyde     | ppm  | 0              | 1.13    | 81        |
|                  |      | 60             | 0.21    |           |
| 0                |      | 1.00           | 95      |           |
| 60               |      | 0.05           |         |           |
| Hydrogen Sulfide |      | 0              | 0.89    | 81        |
|                  |      | 60             | 0.17    |           |
| Benzene          |      | 0              | 0.79    | 14        |
|                  |      | 60             | 0.68    |           |

Note: 1. The initial concentration is controlled within 0.75 to 1.2 ppm.

2. Results only representative over the specified sampling area and periods.

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

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### Appendix

#### Detail Run Data

| Run Time<br>(min) | Concentration, ppm |         |                  |         |
|-------------------|--------------------|---------|------------------|---------|
|                   | Formaldehyde       | Ammonia | Hydrogen Sulfide | Benzene |
| 0                 | 1.13               | 1.00    | 0.89             | 0.79    |
| 5                 | 0.78               |         | 0.65             | 0.76    |
| 10                | 0.56               |         | 0.51             | 0.75    |
| 15                | 0.39               |         | 0.42             | 0.74    |
| 20                | 0.30               |         | 0.35             | 0.73    |
| 25                | 0.28               |         | 0.29             | 0.72    |
| 30                | 0.25               | 0.36    | 0.25             | 0.71    |
| 35                | 0.24               |         | 0.24             | 0.70    |
| 40                | 0.23               |         | 0.22             | 0.70    |
| 45                | 0.23               |         | 0.2              | 0.69    |
| 50                | 0.23               |         | 0.18             | 0.68    |
| 55                | 0.22               |         | 0.16             | 0.68    |
| 60                | 0.21               | 0.05    | 0.17             | 0.68    |

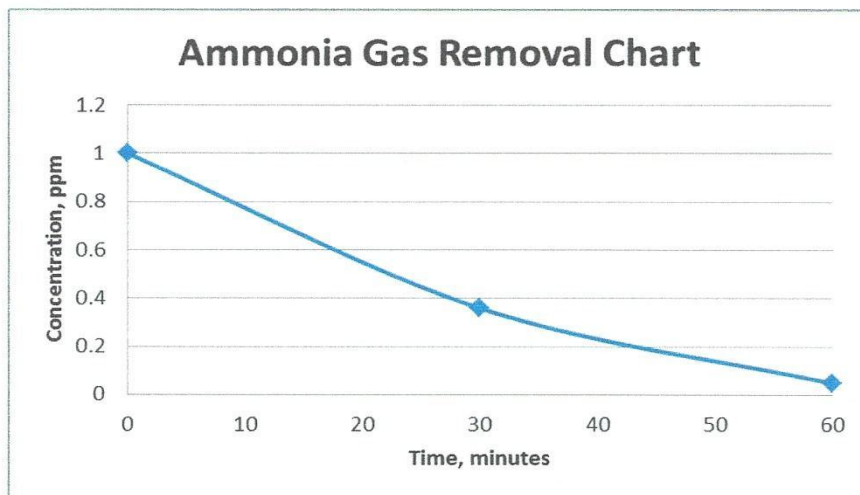
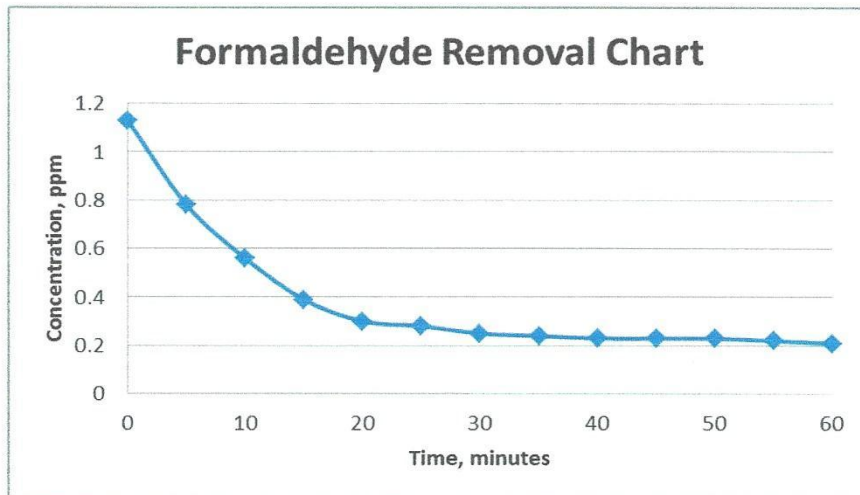
Note: All results were measured every 5 minutes. For Ammonia, samples were collected every 30 minutes.

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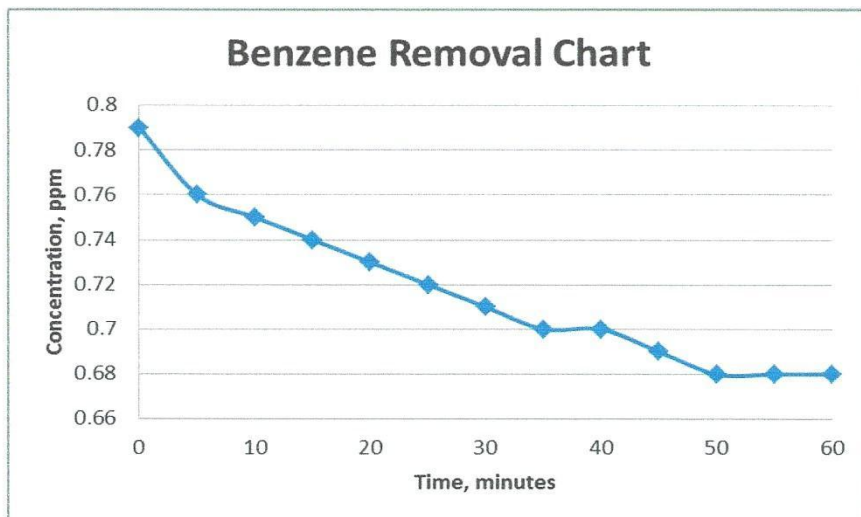
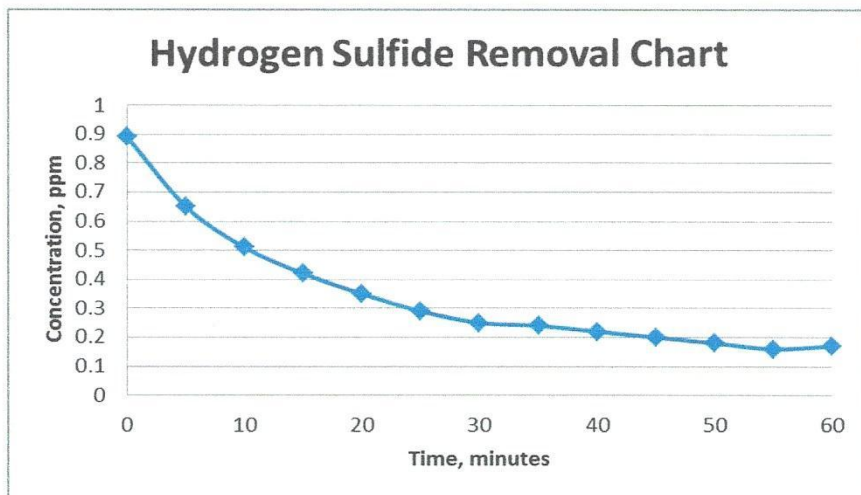


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## 測試報告

報告編號 : AZ0043800(4)

日期: 2020 年 09 月 29 日

申請編號 : LZ024916(0)

裝置圖片

