



中国认可
国际互认
检测
TESTING
CNAS L4549

Test Report

Report No.: JC-CPC240493-5

For *Tobacco Product Directive (2014/40/EU) Article 20 &
Part 6 of the Tobacco and Related Products Regulations 2016 (TRPR)*
Emission Test

Applicant: FUUMY TECHNOLOGY (DONGGUAN) CO., LTD

Manufacturer: FUUMY TECHNOLOGY (DONGGUAN) CO., LTD

Name of Sample: Disposable e-cigarette

Flavor: GRAPE

Brand: TUGBOAT

Model: T12000

Date of Issuance: Jun. 06, 2024



Skyte Testing Services Guangdong Co., Ltd.



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Applicant Name: FUUMY TECHNOLOGY (DONGGUAN) CO., LTD
Applicant Add.: Building 7, 224 Taian Road, Changan, Dongguan, Guangdong, China
Manufacturer: FUUMY TECHNOLOGY (DONGGUAN) CO., LTD
Manufacturer Add.: Building 7, 224 Taian Road, Changan, Dongguan, Guangdong, China

Test sample was submitted by the applicant, report on the submitted sample said to be:

Sample Name: Disposable e-cigarette
Nicotine Conc.: 20 mg/mL
Density: 1.1118 g/mL
Flavor: GRAPE
Brand: TUGBOAT
Model: T12000
Output Power: 13 W
Resistance: 0.95 Ω

Sample Received Date: May 31, 2024
Testing Period: May 31, 2024 to Jun. 06, 2024

Tests Conducted: As requested by the applicant. See the following pages for details.



Signed for and on behalf of
Skyte Testing Services Guangdong Co., Ltd.

Vanessa Huang / Technical Director
Approved Signatory

Remark: Please note that every statement made in this report is only valid for the samples tested and reported herein. This report shall not be reproduced except in full, without the written approval of SKYTE. The samples's information was provided by the applicant, SKYTE has no responsibility for the truth of such information.

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Test Requirement and Conclusion:

| Test Items | Test Requirement and Conclusion |
|--|---|
| Nicotine and Nicotine Consistence, Alcohols, Ketones, Carbonyls, Volatile Organic Compounds (VOC), Metal and Nonmetal Elements, Specific Nitrosamine | Test conducted as per <i>Tobacco Product Directive (2014/40/EU) Article 20 & UK Statutory Instruments on The Tobacco and Related Products Regulations 2016, PART 6– Electronic cigarettes</i> . The test results meet the target values of AFNOR XP D90-300-3:2021 Annex B. |

Smoking Condition

Number of series: 5
 Number of puffs per series: 20
 Total number of puffs: 100
 Puffing duration: (3.0±0.1) s
 Total vaporization duration: 300 s
 Time between 2 puffs: (30.0±0.5) s
 Time between 2 series: (300±120) s
 Puff volume: (55.0±0.3) mL
 Maximum flow rate: (18.3±1.8) mL/s
 Inhalation profile: Square wave
 Device power setting: Fixed
 Smoking basis: AFNOR XP D90-300-3:2021

Test Results

1. Nicotine and Nicotine Consistence

| Test Item | Test Results (mg/mL) | | | AVG (mg/mL) | Target Value * |
|----------------------|------------------------|-------------------------|--------------------------|----------------|----------------|
| | Serie1 (1~20 puffs) | Serie3 (41~60 puffs) | Serie5 (81~100 puffs) | | |
| Nicotine Consistence | 15.84 | 14.96 | 15.35 | 15.38 | — |
| Deviation | 2.99% | -2.73% | -0.20% | — | 30% |

| Test Item | CAS No. | Test Result (mg/100 puffs) | MDL (mg/100 puffs) |
|-----------|---------|----------------------------|--------------------|
| Nicotine | 54-11-5 | 12.25 | 0.05 |

2. Alcohols

| Test Items | CAS No. | Test Results (µg/200 puffs) | MDL (µg/200 puffs) |
|-------------------|----------|-----------------------------|--------------------|
| Ethylene glycol | 107-21-1 | N.D. | 20 |
| Diethylene glycol | 111-46-6 | N.D. | 20 |

3. Ketones

| Test Items | CAS No. | Test Results (µg/200 puffs) | MDL (µg/200 puffs) | Target Value * (µg/200 puffs) |
|------------------|----------|-----------------------------|-----------------------|----------------------------------|
| Diacetyl | 431-03-8 | N.D. | 0.6 | 490 |
| 2,3-Pentanedione | 600-14-6 | N.D. | 8.0 | — |

4. Carbonyls

| Test Items | CAS No. | Test Results (µg/200 puffs) | MDL (µg/200 puffs) | Target Values* (µg/200 puffs) |
|----------------|----------|-----------------------------|--------------------|-------------------------------|
| Formaldehyde | 50-00-0 | 74.0 | 0.4 | 200 |
| Acetaldehyde | 75-07-0 | 4.3 | 0.8 | 3200 |
| Acrolein | 107-02-8 | N.D. | 0.6 | 16 |
| Crotonaldehyde | 123-73-9 | N.D. | 4.0 | — |

5. Volatile Organic Compounds (VOC)

| Test Items | CAS No. | Test Results (µg/200 puffs) | MDL (µg/200 puffs) |
|---------------|----------|-----------------------------|--------------------|
| Benzene | 71-43-2 | N.D. | 4.0 |
| Toluene | 108-88-3 | N.D. | 4.0 |
| 1,3-Butadiene | 106-99-0 | N.D. | 40 |
| Isoprene | 78-79-5 | N.D. | 4.0 |

6. Metal and Nonmetal Elements

| Test Items | CAS No. | Test Results (µg/200 puffs) | MDL (µg/200 puffs) | Target Values* (µg/200 puffs) |
|---------------|-----------|-----------------------------|--------------------|-------------------------------|
| Chromium (Cr) | 7440-47-3 | N.D. | 0.03 | 3 |
| Nickel (Ni) | 7440-02-0 | N.D. | 0.03 | 5 |
| Cadmium (Cd) | 7440-43-9 | N.D. | 0.03 | 3 |
| Lead (Pb) | 7439-92-1 | N.D. | 0.03 | 5 |
| Arsenic (As) | 7440-38-2 | N.D. | 0.03 | 2 |
| Antimony (Sb) | 7440-36-0 | N.D. | 0.03 | 20 |
| Tin (Sn) | 7440-31-5 | N.D. | 0.1 | — |
| Mercury (Hg) | 7439-97-6 | N.D. | 0.03 | 1 |
| Copper (Cu) | 7440-50-8 | N.D. | 0.5 | — |
| Aluminum (Al) | 7429-90-5 | N.D. | 0.5 | — |
| Iron (Fe) | 7439-89-6 | N.D. | 0.1 | — |

7. Specific Nitrosamine

| Test Items | CAS No. | Test Results (ng/200 puffs) | MDL(ng/200 puffs) |
|------------|-------------|-----------------------------|-------------------|
| NNN | 16543-55-8 | N.D. | 25 |
| NNK | 64091-91-4 | N.D. | 25 |
| NAB | 1133-64-8 | N.D. | 25 |
| NAT | 887407-16-1 | N.D. | 25 |

Tested by: Qin Caiyue, Yin Yuanyue, Zhang Mengting, Chen Junlong, Wang Benyang

Checked by: Huang Xiangwei, Zheng Caiju

Remarks:

- (1) mg/mL = milligram per milliliter
- (2) mg/100 puffs = milligram per one hundred puffs
- (3) µg/200 puffs = microgram per two hundred puffs
- (4) ng/200 puffs = nanogram per two hundred puffs
- (5) MDL = method detection limit
- (6) N.D. = not detected, less than MDL
- (7) * = The target values are quoted from AFNOR XP D90-300-3:2021 Annex B.
- (8) The test item of Specific Nitrosamine was not accredited by CNAS.

Test Methods

| Test Items | Test Methods | Test Instruments |
|-----------------------------------|--|------------------|
| Nicotine and Nicotine Consistence | AFNOR XP D90-300-3:2021 Annex A.3 | GC-FID |
| Ethylene glycol | C-QT-1800-TP (In-house test method) | GC-FID |
| Diethylene glycol | | |
| Diacetyl | AFNOR XP D90-300-3:2021 Annex A.4 | GC-MS |
| 2,3-Pentanedione | | |
| Formaldehyde | AFNOR XP D90-300-3:2021 Annex A.5 | UPLC-PDA |
| Acetaldehyde | | |
| Acrolein | | |
| Crotonaldehyde | | |

| Test Items | Test Methods | Test Instruments |
|---------------|---|------------------|
| Benzene | CORESTA RECOMMENDED METHOD No.70 (2019) | GC-MS |
| Toluene | | |
| 1,3-Butadiene | | |
| Isoprene | | |
| Chromium (Cr) | AFNOR XP D90-300-3:2021 Annex A.6 | ICP-MS |
| Nickel (Ni) | | |
| Cadmium (Cd) | | |
| Lead (Pb) | | |
| Arsenic (As) | | |
| Antimony (Sb) | | |
| Tin (Sn) | | |
| Mercury (Hg) | | |
| Copper (Cu) | | |
| Aluminum (Al) | | |
| Iron (Fe) | | |
| NNN | | |
| NNK | | |
| NAB | | |
| NAT | | |

Sample Photo



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(End of report)