

# E-Cigarette Aerosol Analysis Report

Report No. : TCT190729C037

Date : Aug. 06, 2019

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**Applicant:** Shenzhen nevoks technology co.,ltd**Address:** 6010 West No 3 Block, LaoBing Build XingYe Rd#3012, Xixiang,  
BaoanDistrict Shenzhen, China**The following sample was submitted and identified by/on behalf of the client as:**

Sample Name: Nevoks Lusty 0.6ohm Coil  
Model No.: Lusty coil 0.6  
Coil: 0.6Ω kanthal  
Power level in testing: Voltage/Wattage of tested sample is un-adjustable  
Adjustable air inlet or not: Yes  
Trade Mark: Nevoks  
Sample Received Date: 2019.07.29  
Testing Period: 2019.07.29—2019.08.06  
Test Method: Please refer to the following page(s).  
Test Result(s): Please refer to the following page(s).  
Remark: Test data of this report was extracted from report No.TC190729C036.

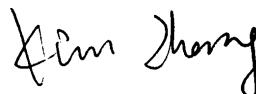
| Test Items |   | Test Requested   |
|------------|---|--|
| 1          | Carbonyl Compounds: Formaldehyde, Acetaldehyde, Acrolein, Crotonaldehyde        | Emission testing according to Article 20 of Tobacco Product Directive (2014/40/EU) |
| 2          | Metals: Aluminum, Chromium, Iron, Nickel, Tin, Lead, Cadmium, Arsenic, Antimony |  |
| 3          | Nicotine consistency  |  |

Checked by



Noel Yin

Signed for and on behalf of TCT

Kim Zhang  
Technical Manager

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### Test Results:

Test Condition for test items except Nicotine consistency test:

With reference to the CORESTA RECOMMENDED METHOD N° 81 method parameter, Afnor standardization XP D90-300-3, International Standard ISO 20768:2018 and PD CEN/TR 17236:2018, a smoke machine was used to collect the vapor.

|                                |                  |
|--------------------------------|------------------|
| Puff Duration                  | 3.0s±0.1s        |
| Puff Volume                    | 55mL±0.3mL       |
| Puff Frequency                 | 30s±0.5s         |
| Puff of Each Group             | 20               |
| Group Interval Time            | 300s±120s        |
| Maximum Flow                   | 18.5mL/s±1.0mL/s |
| Pressure Drop                  | < 50hPa          |
| Group                          | 5                |
| Total Number of Puff           | 100              |
| Total Duration of Vaporization | 300s             |

The temperature and relative humidity of the test atmosphere during machine preparation and testing were kept within the following limits: temperature  $\pm 2^{\circ}\text{C}$ , relative humidity  $\pm 5\%$

### Sample Description:

No.1 Nevoks Lusty 0.6ohm Coil

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### 1. Carbonyl Compounds Content(s)

Method: The volatile aldehydes are extracted from the aerosol by bubbling each puff through an impactor containing an acidified aqueous solution of 2,4-DNPH. The samples are analyzed by reverse phase high-performance liquid chromatography and determined using a UV detector.

| Test Item      | CAS No.   | Unit        | MDL   | LOQ | Content(s) |
|----------------|-----------|-------------|-------|-----|------------|
|                |           |             |       |     | No.1       |
| Formaldehyde   | 50-00-0   | ug/100puffs | 0.667 | 2   | 5.05       |
| Acetaldehyde   | 75-07-0   | ug/100puffs | 0.667 | 2   | 2.90       |
| Acrolein       | 107-02-8  | ug/100puffs | 0.667 | 2   | ND         |
| Crotonaldehyde | 4170-30-3 | ug/100puffs | 0.667 | 2   | ND         |

- Note:
- ug = Microgram
  - ND = Not Detected (lower than MDL)
  - MDL = Method Detection Limit
  - LOQ = Limit of Quantitation
  - E-Liquid Used: E-liquid B (AFNOR XP D90-300-3)

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### 2. Metals Content(s)

Method: The vapor was passed through a dry-ice cooled impinger containing glass packing beads and quartz wool. After smoking the impinger was extracted with 5% nitric acid and filtered through quartz wool. An aliquot of the resulting solution was submitted for analysis by ICP-OES.

| Test Item    | CAS No.   | Unit        | MDL   | LOQ  | Content(s) |
|--------------|-----------|-------------|-------|------|------------|
|              |           |             |       |      | No.1       |
| Aluminum(Al) | 7429-90-5 | ug/100puffs | 0.025 | 0.25 | ND         |
| Chromium(Cr) | 7440-47-3 | ug/100puffs | 0.005 | 0.05 | ND         |
| Iron(Fe)     | 7439-89-6 | ug/100puffs | 0.005 | 0.05 | ND         |
| Nickel(Ni)   | 7440-02-0 | ug/100puffs | 0.025 | 0.25 | ND         |
| Tin(Sn)      | 7440-31-5 | ug/100puffs | 0.25  | 2.5  | ND         |
| Lead(Pb)     | 7439-92-1 | ug/100puffs | 0.025 | 0.25 | ND         |
| Cadmium(Cd)  | 7440-43-9 | ug/100puffs | 0.005 | 0.05 | ND         |
| Arsenic(As)  | 7440-38-2 | ug/100puffs | 0.025 | 0.25 | ND         |
| Antimony(Sb) | 7440-36-0 | ug/100puffs | 0.025 | 0.25 | ND         |

- Note:
- ug = Microgram
  - ND = Not Detected (lower than MDL)
  - MDL = Method Detection Limit
  - LOQ = Limit of Quantitation
  - E-Liquid Used: E-liquid B (AFNOR XP D90-300-3)

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### 3. Nicotine Consistency Test

Test Condition: With reference to the CORESTA RECOMMENDED METHOD N° 81 method parameter and Afnor standardization XP D90-300-3, a smoke machine was used to collect the vapor.

|                    |                  |
|--------------------|------------------|
| Puff Duration      | 3.0s±0.1s        |
| Puff Volume        | 55mL±0.3mL       |
| Puff of Each Group | 20               |
| Maximum Flow       | 18.5mL/s±1.0mL/s |
| Pressure Drop      | < 50hPa          |

The temperature and relative humidity of the test atmosphere during machine preparation and testing were kept within the following limits: temperature  $\pm 2^{\circ}\text{C}$ , relative humidity  $\pm 5\%$

Method: A reference liquid was prepared. A pharmaceutical nicotine inhaler was used as a comparator. Products were attached to a smoke machine, and the aerosol was collected in Cambridge filter pads. After trapping and solvent extraction, solution was analyzed by GC-MS and nicotine was dosed by comparing the areas obtained on the MS detector with those of standard solutions prepared in the laboratory under concentration conditions surrounding those of the samples.

| Sample No.   | Nicotine(CAS No.:54-11-5) Contents(mg/20Puffs) |         |          |         |          |      | Total<br>(mg/100puffs) |
|--------------|--|---------|----------|---------|----------|------|------------------------|
|              | Group 1*                                       | Group 2 | Group 3* | Group 4 | Group 5* | AVG  |                        |
| No.1         | 2.38   | 2.34    | 2.29     | 2.35    | 2.37     | 2.35 | 11.7                   |
| Deviation(%) | 1.4  | -       | 2.2      | -       | 0.9      | -    | -                      |

- Note:
- mg = milligram
  - ND = Not Detected (lower than MDL)
  - MDL = Method Detection Limit = 0.01mg/20Puffs
  - LOQ = Limit of Quantitation = 0.1mg/20Puffs
  - 1group = 20puffs
  - \* Values used for determination of consistency of nicotine emission
  - E-Liquid Used: E-liquid A (AFNOR XP D90-300-3)
  - Under the conditions of the test and with reference to AFNOR XP D90-300-3, the electronic cigarette delivers a dose of nicotine at consistent levels.

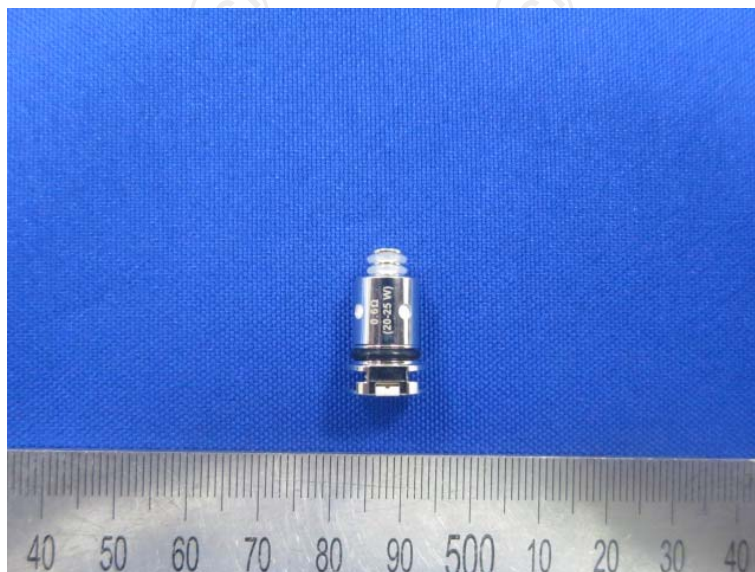
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### Photo(s) of the sample(s)



Nevoks Lusty 0.6ohm Coil

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

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