

Certificate of Analysis No. : 1629466

Customer

BRAIMIOTIS - P. SCARLATOS Ltd
144, 3rd SEPTEMVRIOU
11251 ATHENS

Attn.: Mr GOROGIAS

Date of issue: 8/11/2016

Sample information

Sample kind :	Parts of Electronic cigarette
Sample identification :	J-Easy 9 Battery (D-MEAS-161018-006) / Q16 Clearomizer (D-ATQ16-161018-006) / OCC Coil Cylinder 1,6 Ohm (D-COCC-161018-006), prod/imp.: JFT Co, Ltd.1209, Seoulsoop SK-V1 Tower,5,Seongsuilro 8-gil, Seongdong-gu,Seoul, KOREA 04793
Received on :	20/10/2016 2:10:00 p.m.
Packaging :	---
Seals :	None
Temperature :	Ambient
Condition on receipt :	Normal

Sampling information

Sampling responsible :	Customer
Date :	---
Location :	---
Point :	---
Method :	---

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Analysis result

Date of analysis : 26/10/2016 – 2/11/2016

PARAMETER	METHOD	UNITS	RESULT	LIMITS
E-cigarette emission testing			.	
Emission protocol			.	
E-liquid			Reference A (AFNOR XP D 90-300-3)	
MOD			J-Easy 9 Battery	
Atomizer			Q16 Clearomizer	
Atomizer head/coil			OCC Coil Cylinder 1,6 Ohm	
Coil Composition			Cr20Ni80	
Battery type			li-ion	
Battery capacity		mAh	900	
Wattage		W	12,1	
Voltage		V	4,4	
Device Airflow		on/off	full ON	
Puff duration		sec	3	
Puff interval (frequency)		sec	30	
Puffs per set		unit	20	
Set number		unit	5	
Puff number		unit	100	
Aspiration Airflow		l/min	1.1	
Puff volume		ml	55	
Vapor temperature at mouthpiece outlet		°C	<60	
Inclination angle of e-cigarette tank		°	45	
Emissions			.	
Nicotine 1st set	* GC/FID	mg / 100 puffs	10,4	
Nicotine 3rd set	* GC/FID	mg / 100 puffs	9,9	
Nicotine 5th set	* GC/FID	mg / 100 puffs	9,7	
Nicotine average		mg / 100 puffs	10,0	

The analysis results refer only to the items tested

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(*)Method out of the scope of accreditation

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Conclusion

The mass variability of the emitted nicotine is less than 25% for each measurement relative to the average value of the 3 measurements.

For
A. TSAKALIDIS Inc.

A. TSAKALIDIS
Managing Director

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APPENDIX A

SAMPLE'S PHOTOGRAPH

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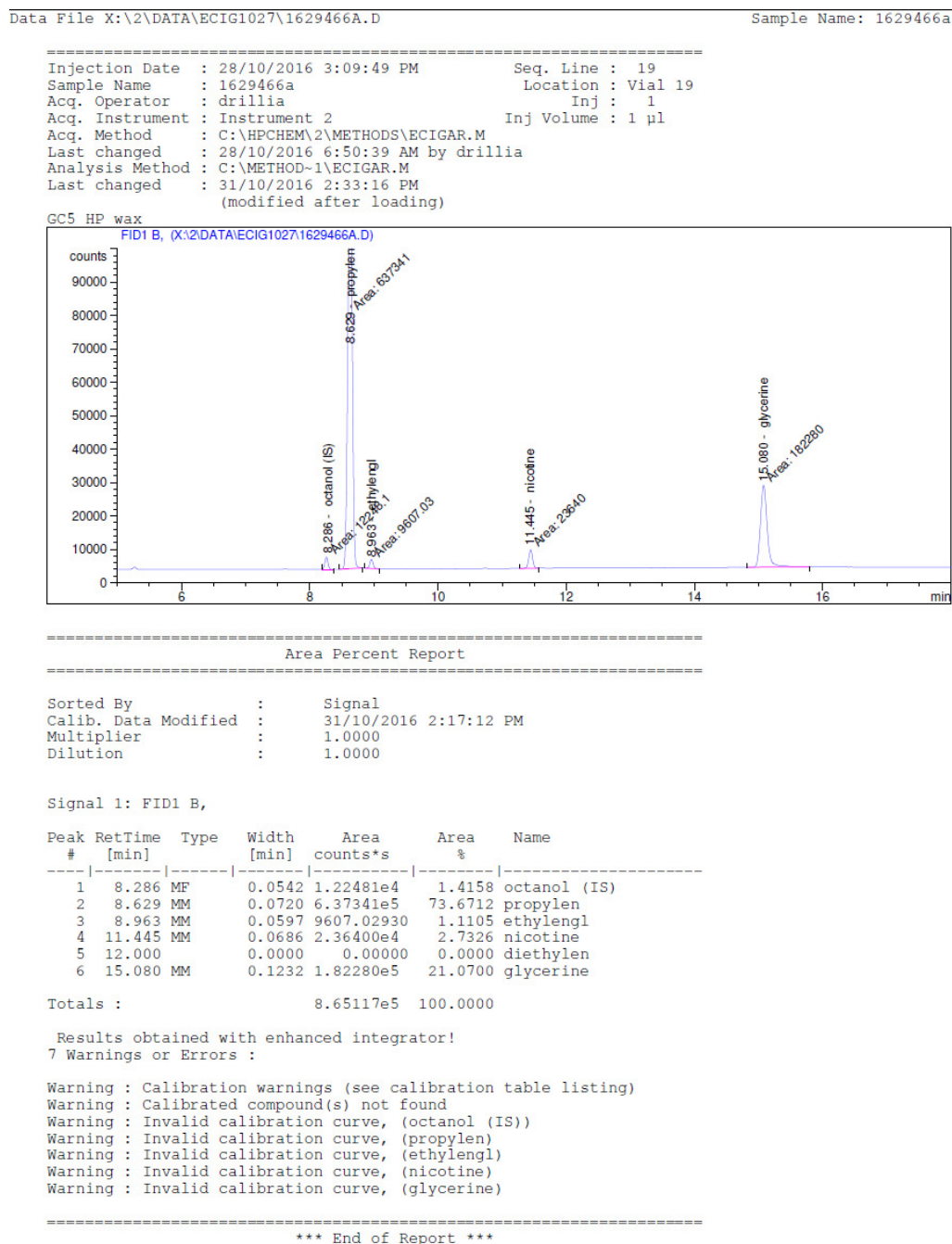
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APPENDIX B

CHROMATOGRAMS

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1. Nicotine in the first set



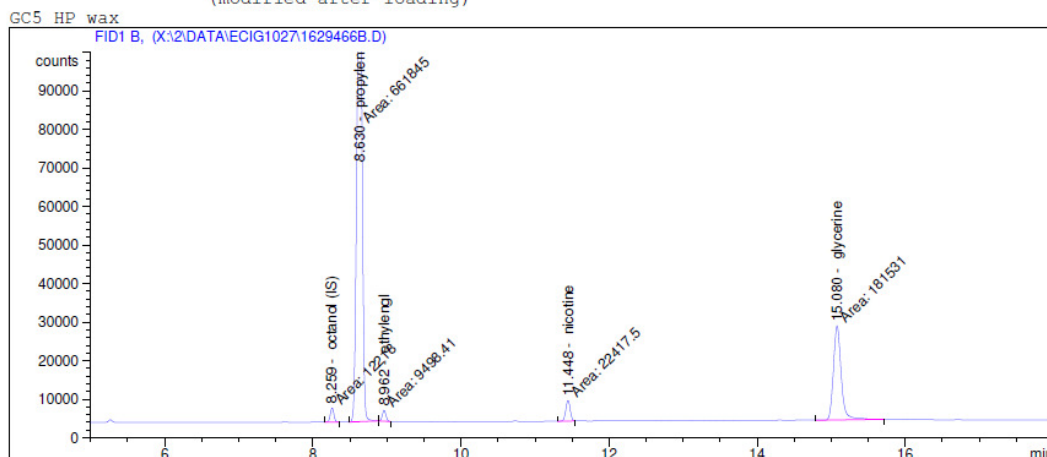
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2. Nicotine in the third set

Data File X:\2\DATA\ECIG1027\1629466B.D

Sample Name: 1629466b

```
=====
Injection Date : 28/10/2016 3:37:21 PM      Seq. Line : 20
Sample Name   : 1629466b                  Location  : Vial 20
Acq. Operator : drillia                    Inj       : 1
Acq. Instrument : Instrument 2              Inj Volume: 1 µl
Acq. Method   : C:\HPCHEM\2\METHODS\ECIGAR.M
Last changed  : 28/10/2016 6:50:39 AM by drillia
Analysis Method : C:\METHOD-1\ECIGAR.M
Last changed  : 31/10/2016 2:33:16 PM
                  (modified after loading)
=====
```



Area Percent Report

```
=====
Sorted By      : Signal
Calib. Data Modified : 31/10/2016 2:17:12 PM
Multiplier     : 1.0000
Dilution       : 1.0000
=====
```

Signal 1: FID1 B,

Peak #	RetTime [min]	Type	Width [min]	Area counts*s	Area %	Name
1	8.259	MM	0.0538	1.22180e4	1.3767	octanol (IS)
2	8.630	MM	0.0729	6.61845e5	74.5732	propylen
3	8.962	MM	0.0537	9498.40820	1.0702	ethylengl
4	11.448	MM	0.0676	2.24175e4	2.5259	nicotine
5	12.000		0.0000	0.00000	0.0000	diethylen
6	15.080	MM	0.1229	1.81531e5	20.4540	glycerine

Totals : 8.87510e5 100.0000

Results obtained with enhanced integrator!

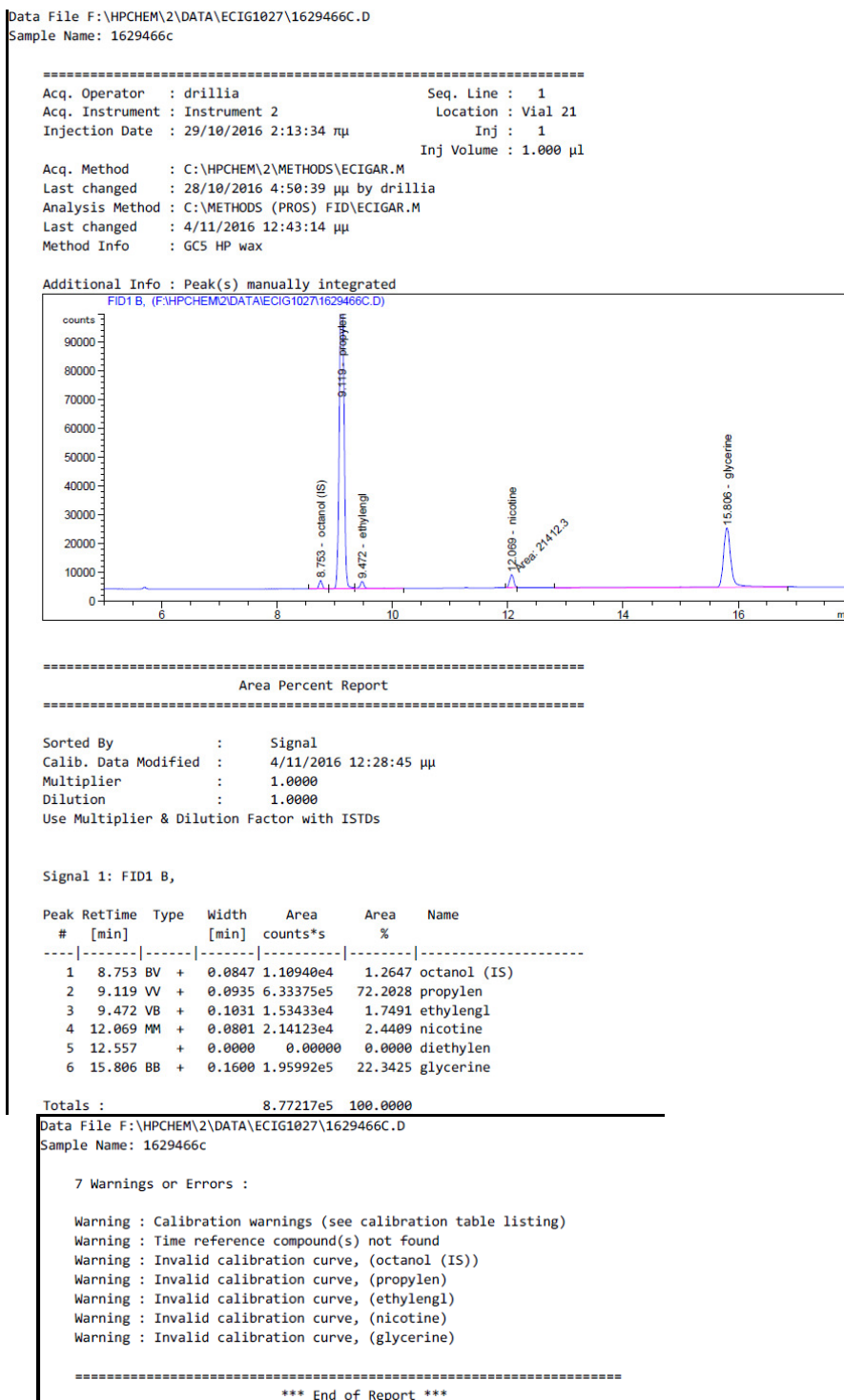
7 Warnings or Errors :

```
Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found
Warning : Invalid calibration curve, (octanol (IS))
Warning : Invalid calibration curve, (propylen)
Warning : Invalid calibration curve, (ethylengl)
Warning : Invalid calibration curve, (nicotine)
Warning : Invalid calibration curve, (glycerine)
```

*** End of Report ***

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3. Nicotine in the fifth set



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APPENDIX C

ANALYTICAL METHODS DESCRIPTION

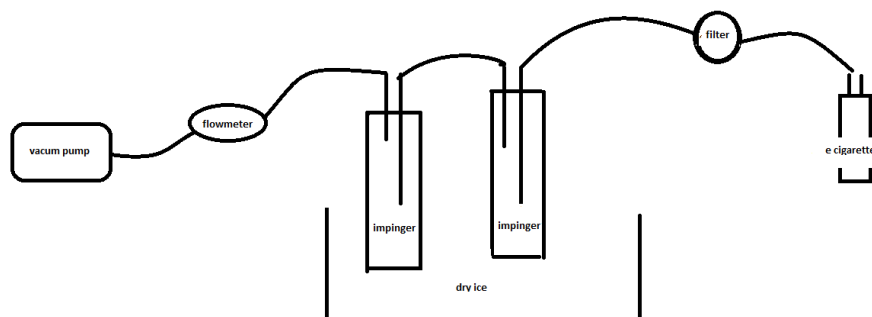
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TESTING OF CONSTANT EMISSION OF NICOTINE FROM ELECTRONIC CIGARETTE DEVICE

1. Vapor sampling

For the testing of constant emission of nicotine from electronic cigarette devices, a vaporization test using the reference liquid A is carried out (&5.2.4, AFNOR XP D90-300-3) according to the parameters defined in paragraphs 5.4.2 , 5.4.7 & 5.9 of AFNOR XP D90-300-3 (July 2016), and the concentration of nicotine which is emitted during the first, third and fifth period of puffs is determined.

For the collection of vapor, filters of 37 mm diameter and traps under cooling are used by the use of the following device.



The vapor is collected on filter which is followed by the traps that contain methanol and are cooled by dry ice.

- Each filter is extracted by methanol and nicotine is determined by gas chromatography and flame ionization detector.

2. Description of analytical methods

Determination of nicotine

Instrumentation

- Gas Chromatograph (GC) Hewlett Packard 5890
- Capillary column HP-INNOWAX with dimensions: length 30m x diameter 0.32mm x film thickness 0.25μ
- Injector split/splitless
- Detector FID
- Carrier gas helium

Experimental procedure

The filter is extracted by methanol using ultrasounds, followed by filtration of the extract. Using an appropriate aliquot of the extract, the internal standard 1-octanol is added. Then, analysis by GC/FID is followed and quantification of nicotine is done by the use of calibration curve, which is constructed by the analysis of four standards.