

Certificate of Analysis No. : 1630545

Customer

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

Attn.: Mr GOROGIAS

Date of issue: 9/11/2016

Sample information

Sample kind :	Parts of Electronic cigarette
Sample identification :	JUST ONE KIT / JUST ONE Coil Cylinder 0,5 Ohm, prod/imp.: JFT Co, Ltd.1209, Seoulsoop SK-V1 Tower,5,Seongsuilro 8-gil, Seongdong-gu,Seoul, KOREA 04793
Received on :	31/10/2016 10:35:00 a.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 : 4/11/2016 – 8/11/2016

PARAMETER	METHOD	UNITS	RESULT	LIMITS
E-cigarette emission testing			.	
Emission protocol			.	
E-liquid			Reference A (AFNOR XP D 90-300-3)	
MOD			JUST ONE KIT	
Atomizer			JUST ONE KIT	
Atomizer head/coil			JUST ONE Coil Cylinder 0,5 Ohm	
Coil Composition			Ni-Cr	
Battery type			Li-ion polymer	
Battery capacity		mAh	1500	
Wattage		W	24	
Voltage		V	3,4	
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	18	
Nicotine 3rd set	* GC/FID	mg / 100 puffs	23	
Nicotine 5th set	* GC/FID	mg / 100 puffs	23	
Nicotine average		mg / 100 puffs	21,3	

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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APPENDIX B

CHROMATOGRAMS

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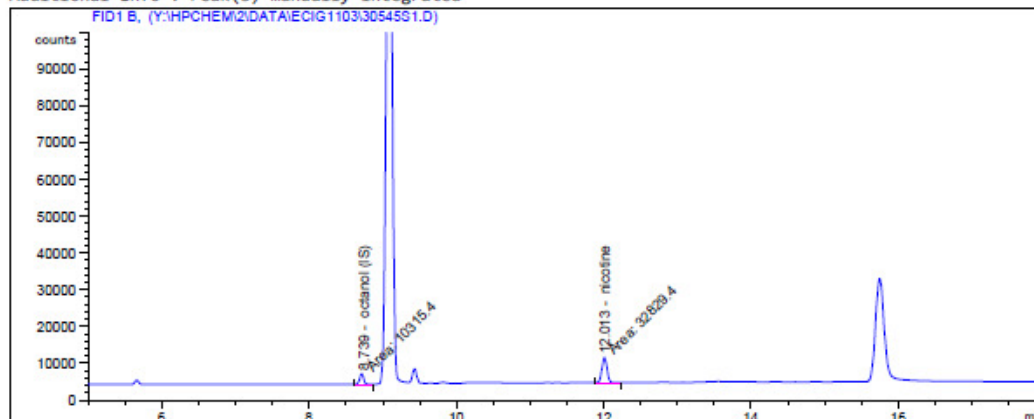
1. Nicotine in the first set

Data File Y:\HPCHEM\2\DATA\ECIG1103\30545S1.D
 Sample Name: 30545s1

```
=====
Acq. Operator   : Arkouli                      Seq. Line : 22
Acq. Instrument : Instrument 2                  Location  : Vial 22
Injection Date  : 5/11/2016 1:19:05 µm         Inj       : 1
                                           Inj Volume: 1 µl

Acq. Method     : C:\HPCHEM\2\METHODS\ECIGAR.M
Last changed    : 28/10/2016 4:50:39 µm by drillia
Analysis Method : C:\METHODS (PROS) FID\ECIGAR2.M
Last changed    : 10/11/2016 2:09:29 µm
Method Info     : GCS HP wax
=====
```

Additional Info : Peak(s) manually integrated



Area Percent Report

```
=====
Sorted By      : Signal
Calib. Data Modified : 10/11/2016 2:09:14 µm
Multiplier     : 1.0000
Dilution       : 1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

Signal 1: FID1 B,

Peak #	RetTime [min]	Type	Width [min]	Area counts*s	Area %	Name
1	8.739	MF +	0.0594	1.03154e4	23.90872	octanol (IS)
2	12.013	MM +	0.0787	3.28294e4	76.09128	nicotine
3	12.557	+	0.0000	0.00000	0.00000	diethylen
Totals :				4.31448e4	100.0000	

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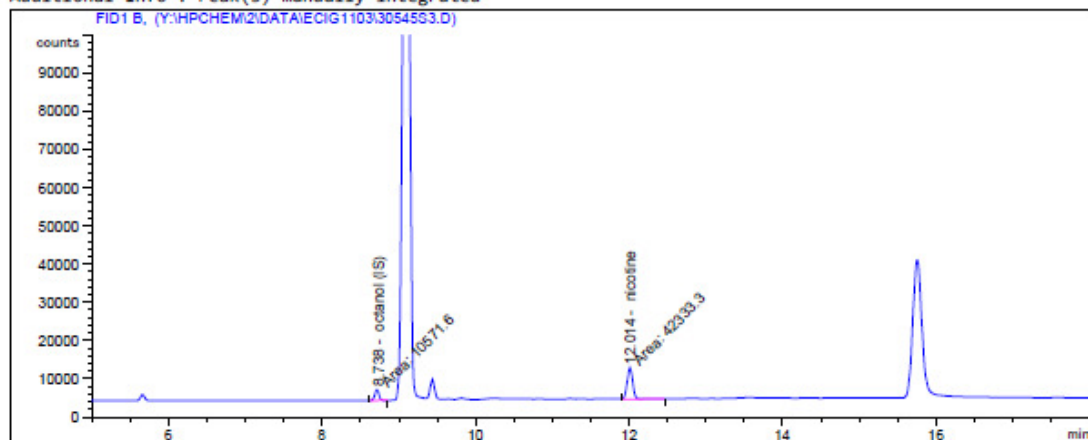
2. Nicotine in the third set

Data File Y:\HPCHEM\2\DATA\ECIG1103\30545S3.D
 Sample Name: 30545s3

```
=====
Acq. Operator   : Arkouli                      Seq. Line : 23
Acq. Instrument : Instrument 2                  Location  : Vial 23
Injection Date  : 5/11/2016 1:46:32 μm         Inj       : 1
                                           Inj Volume: 1 μl

Acq. Method     : C:\HPCHEM\2\METHODS\ECIGAR.M
Last changed    : 28/10/2016 4:50:39 μm by drillia
Analysis Method : C:\METHODS (PROS) FID\ECIGAR2.M
Last changed    : 10/11/2016 2:09:29 μm
Method Info     : GC5 HP wax
=====
```

Additional Info : Peak(s) manually integrated



Area Percent Report

```
=====
Sorted By      : Signal
Calib. Data Modified : 10/11/2016 2:09:14 μm
Multiplier     : 1.0000
Dilution       : 1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

Signal 1: FID1 B,

Peak #	RetTime [min]	Type	Width [min]	Area counts*s	Area %	Name
1	8.738	MF +	0.0604	1.05716e4	19.98227	octanol (IS)
2	12.014	FM +	0.0850	4.23333e4	80.01773	nicotine
3	12.557	+	0.0000	0.00000	0.00000	diethylen
Totals :				5.29049e4	100.0000	

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3. Nicotine in the fifth set

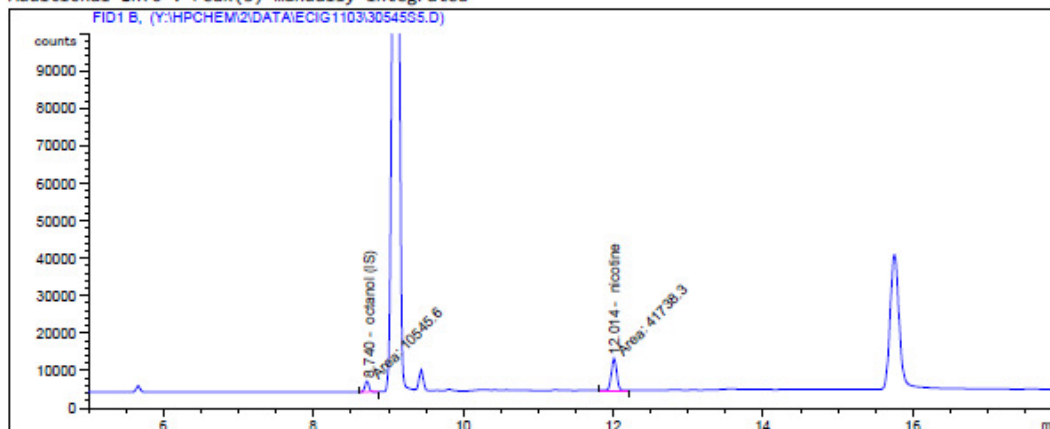
Data File Y:\HPCHEM\2\DATA\ECIG1103\3054555.D

Sample Name: 30545s5

```
=====
Acq. Operator   : Arkouli                      Seq. Line :   24
Acq. Instrument : Instrument 2                  Location  : Vial 24
Injection Date  : 5/11/2016 2:14:04 μm         Inj       :    1
                                           Inj Volume: 1 μl

Acq. Method     : C:\HPCHEM\2\METHODS\ECIGAR.M
Last changed    : 28/10/2016 4:50:39 μm by drillia
Analysis Method : C:\METHODS (PROS) FID\ECIGAR2.M
Last changed    : 10/11/2016 2:09:29 μm
Method Info     : GC5 HP wax
=====
```

Additional Info : Peak(s) manually integrated



Area Percent Report

```
=====
Sorted By      : Signal
Calib. Data Modified : 10/11/2016 2:09:14 μm
Multiplier     : 1.0000
Dilution       : 1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

Signal 1: FID1 B,

Peak #	RetTime [min]	Type	Width [min]	Area counts*s	Area %	Name
1	8.740	MF +	0.0602	1.05456e4	20.16982	octanol (IS)
2	12.014	MM +	0.0796	4.17383e4	79.83018	nicotine
3	12.557	+	0.0000	0.00000	0.00000	diethylen
Totals :				5.22839e4	100.0000	

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APPENDIX C

ANALYTICAL METHODS DESCRIPTION

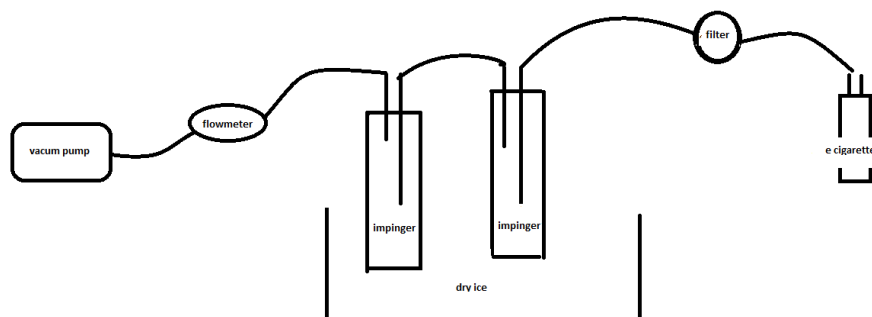
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TESTING OF CONSTANT EMISSION OF NICOTINE FROM ELECTRONIC CIGARETTE DEVICE

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.