Vapor Shark

4969 SW 74th Court
Miami, FL 33155

Fiber Transfer Study
Samples Received 12/29/2015

Analysis Report
(1215-592)

Subcontracted to MVA

Particulate on Filter

Enthalpy Analytical, Inc.
Phone: (919) 850 - 4392 / Fax: (919) 850 - 9012 / www.enthalpy.com
800-1 Capitola Drive Durham, NC 27713-4385

Enthalpy Analytical Narrative Summary

Company	Vapor Shark
Analysts	KMP
Parameters	Subcontracted to MVA

Client Proj	Fiber Transfer Study
Job #	1215-592
# Samples	1 Device

Sample Custody

The device ***Target 75 VTC Vaporesso Tank*** was received on 12/29/15 at ambient temperature and in good condition. Prior to, during, and after analysis, the device was kept under lock with access only to authorized personnel by Enthalpy Analytical, Inc.

Sample Handling

To generate the sample for the fiber transfer study, the submitted device was filled with the e-Liquid ***Lion Head – Dry Season*** and smoked on the KC Automation 5-port smoking machine, "Otto" for 25 puffs using a 55mL/3 second square-wave puff profile once every 30 seconds. The sample was collected on an MCE (mixed cellulose ester) filter. Before and after the 25 puffs, the filters were weighed and sample recovered.

Pre Weight Filter (g)	Post Weight Filter (g)	Filter Mass Gain (g)	Puff Count
27.0650	27.2584	0.1934	1-25

Analysis

The filter was sent to MVA Scientific Consultants for analysis. Refer to the provided MVA report for more details.

Reporting Notes

The results presented in this report are representative of the samples as provided to the laboratory.

MVA SCIENTIFIC CONSULTANTS
Full Service Analytical Microscopy Laboratory

3300 Breckinridge Blvd
Suite 400
Duluth, GA 30096

770.662.8509
FAX 770.662.8532
www.mvainc.com

Analytical Laboratory Support

Particle Characterization

Material Characterization

Product Failure Analysis

Coating Analysis

Corrosion Analysis

Surface Profile Characterization

Polymer Characterization

Nanomaterial Characterization

Microscopy Imaging

Contamination Analysis

High Resolution SEM & TEM Imaging

Techniques

Light Microscopy

Scanning Electron Microscopy

Transmission Electron Microscopy

Fourier Transform Infrared Spectroscopy

Confocal Raman Microscopy

White Light Interference Microscopy

Energy Dispersive X-ray Spectrometry

Fluorescence Microscopy

Ion Milling & Ultramicrotomy

Accreditations

cGMP Compliant

ISO/IEC 17025
A2LA Certificate #2096.01

FDA Registered

Report of Results: MVA11333

Analysis for Particulate on Filter

Prepared for:

Enthalpy Analytical, Inc.
800-1 Capitola Drive
Durham, NC 27713

Respectfully Submitted by: EXECUTED BY ELECTRONIC SIGNATURE

Tim B. Vander Wood, Ph.D.
Executive Director

14 January 2016

Report of Results: MVA11333

Analysis for Particulate on Filter

Introduction

On 30 December 2015, we received a single mixed cellulose ester filter bearing the label “1215-592” with the request that we determine the nature of any particulate found on the filter. The sample was assigned MVA Scientific Consultants laboratory identification number AA2595 and was analyzed in our laboratory on 11 January 2016.

Methods

The entire filter was examined with an Olympus SZ40 stereomicroscope at magnifications up to 40x.

Results and Discussion

No particulate was observed on the filter.

11333

Chain of Custody Record

ENTHALPY analytical, inc

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Special Handling:
- ☑ Standard Turn Around Time (10 business days)
- ☐ Rush Turn Around Time -- Date Needed_____
- All TATs Subject to Approval by Enthalpy Analytical, Inc.
- All Bag/Can Samples Disposed of 1 Month from Receipt.
- All Other Samples Disposed of 4 Months from Receipt.

Client Name: Enthalpy
Project Manager: Bryan + Gene
Report To:

Project Number: 1215-592
Site Name:
Location:

PO#: BDT - 1215-592
Telephone#:
Email:

For spiked or duplicate samples: please provide sample volumes for recovery calculations. For Particulates: please provide tare weights and/or condensed water volumes.

Special Instructions:

A=Air 1=H2SO4 2=NaOH W=Water O=Other
X=XAD C=Charcoal SG=Silica Gel
G=Grab C=Composite Q=Quality Control O=Other

Sample ID	Date	Time	Sample Volume	Type	Matrix	# of VOA Vials	# of Glass	# of Plastic	# of Bags	# of Canisters	# of Tubes	# Other	Sample Containers	Analyses:	Notes:
													Particulate on Filter		
.1934	12/29											1	X		

Relinquished By:	Date:	Received By:	Date:	Time:	Sample Condition Upon Receipt:
BDJ	12/29/15		12/30/15	1000	☐ Iced ☑ Ambient ☐ °C_____
					☐ Iced ☐ Ambient ☐ °C_____
					☐ Iced ☐ Ambient ☐ °C_____

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