

Appendix B
Laboratory Data

**AirNova, Inc.**

3485 Haddonfield Road, Pennsauken, New Jersey 08109
Phone (856) 486-1500 • Fax (856) 486-9896 • www.airnova.com

Primary NELAC & NJ Lab Cert. No. 04011

Secondary NY NELAC No.12033

Reciprocated VA NELAC No.460234

PA Env. Lab Reg. No. 68-01676

Client: AirNova @ Fogo DeChao Restaurants, Queens
Location: Charcoal Broiler, Molitron Spray Mist Control

EPA Method 5 - Particulate Analysis Results Summary (Mass Data)

AirNova Project #: 4835
Lab Book #: 5-7-114
Sample Date: 9/30/2022
Date Rec'd: 9/30/2022

Sample Train Filter Analysis

<u>Run #</u>	<u>Mass (mg)</u>	<u>Tare(g)</u>	<u>Total(g)</u>	<u>Diff(g)</u>	<u>Qual. Eval.</u>
1	3.6	0.6190	0.6226	0.0036	brown

Uncontrolled

1	0.6	0.6133	0.6139	0.0006	light brown
---	-----	--------	--------	--------	-------------

Controlled

Acetone Rinse Analysis

<u>Run #</u>	<u>Mass (mg)</u>	<u>Tare(g)</u>	<u>Total(g)</u>	<u>Diff(g)</u>	<u>Samp. Vol(mL)</u>
1	1.5	5.5778	5.5793	0.0015	300

Uncontrolled

1	0.9	6.3354	6.3363	0.0009	300
---	-----	--------	--------	--------	-----

Controlled

Field Reagent Blank	6.8881	6.8881	< 0.00035	300
---------------------	--------	--------	-----------	-----

Final weights are recorded after reaching "constant weight" as defined in EPA5 Section 11.2.1.

*Gravimetric MDL= 0.35mg

The analytical results obtained relate only to the samples included within this report.

This report should not be reproduced except in full, without the written approval of AirNova, Inc.

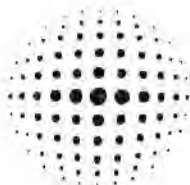
AirNova, Inc. certifies that the test results contained in this report meet all requirements of NELAC.

Joe Jackson, QEP
Laboratory Director

10/4/22
Date

[Signature]
Secondary Review

10/04/22
Date

**AirNova, Inc.**

3485 Haddonfield Road, Pennsauken, New Jersey 08109
Phone (856) 486-1500 • Fax (856) 486-9896 • www.airnova.com

Primary NELAC & NJ Lab Cert. No. 04011

Reciprocated VA NELAC No. 460234

Secondary NY NELAC No. 12033

PA Env. Lab Reg. No. 68-01676

Client: AirNova @ Fogo DeChao, Queens
AirNova Project #: 4835
Location: Charcoal Broiler, Spray Mist Control
Sample Date: 9/30/2022
Date Received: 9/30/2022

EPA Method 202 (Dry) - Condensable Particulate Matter Summary (Mass Data)

Lab Book #: 202-6-100

mo = Mass of organic CPM, mg
mi = Mass of inorganic CPM, mg
mr = Mass of dried sample from inorganic fraction, mg
mc = Mass of NH₄⁺ added to form ammonium sulfate, mg
mi = mr - mc

Total milligrams of CPM, $m_{cpm} = mo + mi - mfb$ (EPA 202 Equation 4)

where mfb = Org. Field Blank + Inorg. Field Blank, mg

<u>Run #</u>	<u>mo</u>	<u>mi</u>	<u>mr</u>	<u>mc</u>		<u>mfb</u>	<u>mofb</u>	<u>mifb</u>
1 Uncontrol	2.0	1.6	1.6	0.0	*	0.4	0.0	0.4
1 Controlled	0.7	1.3	1.3	0.0	*	0.4	0.0	0.4

<u>mcpm (blank corr)</u>			
<u>Run #</u>	<u>Total CPM mg</u>	<u>mo</u>	<u>mi</u>
1 Uncontrol	3.2	2.0	1.2
1 Controlled	1.6	0.7	0.9

* maximum blank correction allowed is 2.0mg

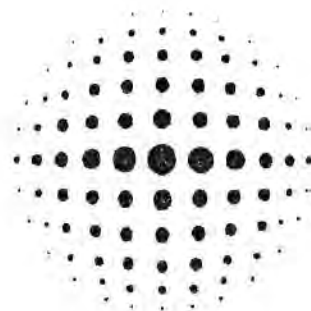
Final weights are recorded after reaching "constant weight" as defined in EPA202 Section 3.2.

Gravimetric MDL (mg)= 0.35 (use zero for calculations if blank quantity is <= MDL per NJDEP)

The analytical results obtained relate only to the samples included within this report.

This report should not be reproduced except in full, without the written approval of AirNova, Inc.

AirNova, Inc. certifies that the test results contained in this report meet all requirements of NELAC.



AirNova, Inc. Laboratory
EPA Method 202 - Fraction Information and Calculations

Client: AirNova @ Fogo DeChao, Queens
 AirNova Project #: 4835
 Location: Charcoal Broiler, Spray Mist Control
 Sample Date: 9/30/2022
 Date Received: 9/30/2022

EPA Method 202 (Dry) - Condensable Particulate Analysis (Mass Data)

Lab Book #: 202-6-100

Back Half Organic Fraction - (Acetone/Hexane)

Mass of organic CPM (mo)				
<u>Run #</u>	<u>(mg)</u>	<u>Tare(g)</u>	<u>Total(g)</u>	<u>Diff (mg)</u>
1 Uncontrol	2.0	6.0720	6.0740	2.0
1 Controlled	0.7	6.1310	6.1317	0.7
				<u>applied</u>
Organic Field Train Recovery Blank (mob)	6.2088	6.2088	0.0	0.0
Organic Field Train Proof Blank	6.6976	6.6981	0.5	
Acetone Field Reagent Blank 300mL	6.8881	6.8881	0.0	*
Hexane Field Reagent Blank 300mL	5.8364	5.8366	0.2	*

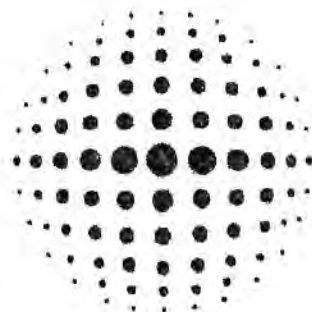
Back Half Inorganic Fraction - Aqueous post-extraction

Mass of Inorganic CPM (mi)				mc = 17.03 x Vt x N			
<u>Run #</u>	Mass (mi) (mg)	NH3 correction (mc) (mg)	Tare(g)	Dried inorganic mass (mr) <u>Total(g)</u> <u>Net Diff(g)</u> (mg)			Vol.(Vt)** (mL)
1 Uncontrol	1.6		6.3343	6.3359	0.0016	1.6	NA
1 Controlled	1.3		5.4765	5.4778	0.0013	1.3	NA
Recovery Blank	0.4	0.0				0.0 <u>applied</u>	NA
Inorganic Field Train Recovery Blank (mib)			5.6320	5.6324	0.0004	0.4	NA
Inorganic Field Train Proof Blank			6.1509	6.1512	0.0003	0.3 *	
Water Field Reagent Blank 300mL			5.5818	5.5824	0.0006	0.6	
Water Lab Reagent Blank 300mL			5.9882	5.9883	0.0001	0.1 *	
** Volume of NH4OH titrant			0.100 Normal	100mL sample			

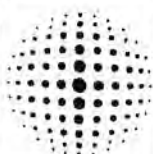
* Gravimetric MDL= 0.35mg



AirNova, Inc.



AirNova, Inc. Laboratory
Chain-of-custody



AirNova, Inc.
3485 Haddonfield Road
Pennsauken, New Jersey 08109
Phone: 856-486-1500
Fax: 856-486-9896
www.airnova.com

Chain Of Custody Documentation Form

COC Doc #

Page

1 of 1

Project Number: 4835

Sample Date: 9-30-22

Report Results To: AIRNOVA

Plant: Fogo De Chao Restaurants

Recovery Date: 9-30-22

Sample Location: Commercial Charcoal Broiler

Moltron Spray Mist control device

Sample Fractions

(Indicate # of each and Container Type)

Fraction Type Legend

W = Wash C = Catch Q = Quartz
F = Front B = Back T = Fluoropolymer

Container Type Legend

P = Polybottle (HDPE)
G = Glass w/fluorolid

V = Vial

D = Petri Dish

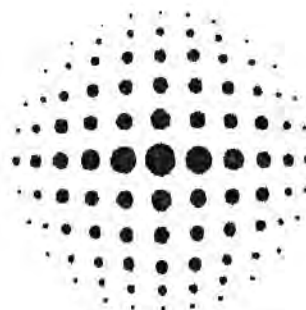
T = Trap

Test Set	Collection / Analysis Method (include additional requirements)	Run #	Silica Gel #	Filter (# if applicable)	Gas Sample (Bag #)	Acetone	Water	Hexane Acetone Mix	Hexane	IPA	H ₂ O ₂	H ₂ SO ₄	HNO ₃	HNO ₃ /H ₂ O ₂	KMnO ₄ /H ₂ SO ₄	HCl	Lead Cooler	Preservation	Safety Seal Intact (Y/N)	Any Sample Loss Noted?	Priority Results (✓ for yes)
Control	EPAS/202 Single Point Isokinetic	1	X9858 W1824	B P F Q D	FW	Acetone	CFM 5.1 liter Tych PTFE Acetone	16-16	16-16									85F upright	Y	Y	Y
Uncert		1	X9858 W1824					16-16	16-16										Y	Y	Y
	202 Field Train Recovery BL							16-16											Y	Y	Y
	202 Field Train Proof BL							16-16											Y	Y	Y
	202 Field Reagent Blanks (300ml)							16-16	16-16										Y	Y	Y

4835 A B B

Notes:

Relinquished By: (Print) (Sign) (Date) (Time)
Tim McNamee [Signature] 9-30-22 1330
Received By: (Print) (Sign) (Date) (Time)
JOC Jackson [Signature] 9/30/22 1:30 PM



AirNova, Inc. Laboratory
Calibration Documents and Analytical Certificates

I.W. TremontTechnical and Specialty Papers
ISO 9001:2008 Registered18 Utter Avenue
Hawthorne, New Jersey 07506 USA
T. 973-427-3800 F. 973-427-3778
www.iwtremont.com

Have a high temperature air sampling application?

Grade:	Quartz - A and Quartz-A-HT
Material Attributes:	High purity, binder free Quartz (SiO ₂) glass microfiber filter media
Particle retention:	2.0 - 2.2µm (Minimum retention tested 99.998% DOP (0.3µm) ASTM D2986)
Basis weight:	85 g/m ²
Thickness:	0.45 - 0.47mm
Maximum Temp:	Quartz-A = 950° C Quartz-A-HT = 1150° C
Flow rate:	1.1 - 1.35 m ³ /min (Resistance 95mm H ₂ O @ 10.5 ft/min)
Loss on Ignition:	Quartz-A = <6% Quartz-A-HT = <2%
Tensile strength:	Quartz-A = 215g / 15mm (ASTM D828), MD tensile is 7.3 lbs/in (TAPPI T494) Quartz-A-HT = 285g / 15mm (ASTM D828), MD tensile is 11.3 lbs/in (TAPPI T494)



**Quartz-A-HT
demonstrates
<1% loss on ignition
as a result of
Tremont's proprietary
processing
methods.**

- Ideal for use in acidic gases and aerosols, stacks and flue gas monitoring.
- This media meets or exceeds the physical, performance and elemental requirements for EPA PM₁₀, Ambient Air Monitoring methods.
- Ideal for use in acidic gases (*except Hydrofluoric*) and aerosols, stacks and flue gas monitoring.
- Uniform screen & felt sides with uniform density MD/CD.
- Manufacturing performed with RO water filtration system.
- This media demonstrates excellent lot-to-lot reproducibility.
- Material chemistries are verified against a standard using GC techniques prior to paper making process.
- CofC and CofA provided upon request with order.
- Most cost effective material of its kind offered in the analytical market today.



Certification

Product Information:

(1) P/N: SPEC20105

Descriptions:

(1) PTFE Hydrophobic Membrane Filters, 1.0 um, 8 inch x 10 inch, Nonsterile, 25 per pack

Through the verification of our laboratory, it is concluded that the above filter membrane has more than 99.95% collection efficiency for 0.3 micron particles.

Regards,

Mike

Technical support



Tisch Environmental Inc (Scientific Div.)
 145 South Miami Ave.
 Cleves, Ohio 45002
 Ph: 513-467-0222

CERTIFICATE OF CONFORMANCE

Basic Information

Products: PTFE membrane Filter with Pore size : 0.1um, 0.22um, 0.45um, 1.0um, 3.0um, 5.0um

Comment(s)

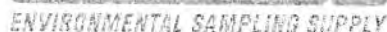
These filters have been produced in accordance with manufacturing instructions and meets the specification detailed below.

PTFE Membrane filters, Hydrophobic , exhibiting at least 99.95percent efficiency (<0.05 percent penetration)on 0.3 micron dioctyl phthalate smoke particles. The filter efficiency test shall be conducted in accordance with ASTM Standard Method D2986-71(Reapproved 1978) (Incorporated by reference-see 60.17). Test data From the supplier's quality control program are sufficient for this purpose. In sources containing SO₂ or SO₃, the filter material must be of a type that is nonreactive to SO₂ or SO₃. Citation 10 in Bibliography may be used to select the appropriate filter.

PC Class — Certificate of Compliance

Analyte	Detection Limit (ug/l)	Barium	Cadmium	Cobalt	Copper	Iron	Lead	Nickel	Potassium	Selenium	Silver	Sodium	Strontium	Tin	Vanadium	Zinc	Fluoride	Nitrate + Nitrite
Aluminum	<0.5					<0.3	<0.05	<0.05	<30					<0.09				
Antimony	<0.03													<0.01				
Arsenic	<0.03													<0.01				
Boron	<0.03													<0.03				
Beryllium	<0.01													<1				

ON-TIME PRODUCTS FOR ENVIRONMENTAL SAMPLING & ANALYSIS



1-800-233-8425

www.essvial.com

6/30/21

Report ID:
020213-028-102821-CTR

Mettler Toledo, LLC
1900 Polaris Parkway
Columbus, OH 43240
1.800.METTLER

METTLER TOLEDO

Comprehensive Test Report

Customer

Company:	AirNova Inc		
Address:	3485 Haddonfield Rd		
City:	Pennsauken	Contact:	Joe Jackson
Zip / Postal:	08109-3805	Order Number:	0332270300
State / Province:	New Jersey		

Weighing Device

Manufacturer:	Mettler Toledo	Instrument Type:	Weighing Instrument
Model:	XSR105DU	Asset Number:	N/A
Serial No.:	b937256455	Terminal Model:	N/A
Building:	N/A	Terminal Serial No.:	N/A
Floor:	1st	Terminal Asset No.:	N/A
Room:	Lab	Alternate Asset No.:	N/A

Range	Max. Capacity	Readability (d)
1	41 g	0.00001 g
2	120 g	0.0001 g

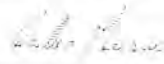
Procedure

Guideline:	EURAMET cg-18 v. 4.0 (11/2015)
METTLER TOLEDO Work Instruction:	30260953

This report contains measurements for As Found and As Left testing.

The sensitivity/span of the weighing instrument was adjusted before As Left testing with a built-in weight.

In accordance with EURAMET cg-18 (11/2015), the test loads were selected to reflect the specific use of the weighing device or to accommodate specific test conditions.

As Found Testing Date:	28-Oct-2021	Service Technician:	
As Left Testing Date:	28-Oct-2021		
Issue Date:	28-Oct-2021		
Next Testing Date:	31-Oct-2022		Carlos Toscano

Report ID:
020213-028-102821-CTR

METTLER TOLEDO Service

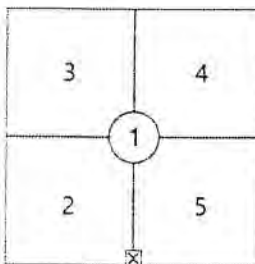
Measurement Results

Eccentricity

Eccentricity Test Load: 50 g

Position	As Found	As Left
1	0.0000 g	0.0000 g
2	-0.0001 g	-0.0001 g
3	0.0001 g	0.0000 g
4	0.0002 g	0.0001 g
5	0.0000 g	-0.0001 g

Maximum Deviation	0.0002 g	0.0001 g
-------------------	----------	----------



Error of Indication

	Tare Load	Reference Value	As Found		As Left	
			Indication	Error of Indication	Indication	Error of Indication
1	N/A	0.00000 g	0.00000 g	0.00000 g	0.00000 g	0.00000 g
2	N/A	20.00000 g	20.00000 g	0.00000 g	20.00000 g	0.00000 g
3	20 g	20.00000 g	20.00000 g	0.00000 g	19.99999 g	-0.00001 g
4	40 g	20.00000 g	19.9999 g	-0.0001 g	20.0000 g	0.0000 g
5	60 g	20.00000 g	20.0000 g	0.0000 g	20.0000 g	0.0000 g
6	80 g	20.00000 g	19.9999 g	-0.0001 g	20.0000 g	0.0000 g
7	N/A	60.0000 g	59.9999 g	-0.0001 g	60.0000 g	0.0000 g
8	N/A	100.0000 g	99.9999 g	-0.0001 g	100.0000 g	0.0000 g
9	N/A	120.0000 g	119.9999 g	-0.0001 g	120.0000 g	0.0000 g

Test Equipment

All weights used for metrological testing are traceable to national or international standards. The weights were calibrated and certified by an accredited calibration laboratory.

Weight Set 1: OIML E2

Weight Set No.: 511 Date of Issue: 07-Jul-2021
Certificate Number: 01209220-1 Calibration Due Date: 31-Jul-2022

Remarks

This document is issued to record completion of the work performed by METTLER TOLEDO on the subject device in accordance with agreed standards. It does not guarantee the continued performance of the subject device. Any measurements recorded are based on the subject device's performance at a given time as tested by METTLER TOLEDO and, except where explicitly stated otherwise, do not express an opinion as to the sufficiency of any customer designed procedures used to test the device. This document is not a warranty, either implied or express. METTLER TOLEDO expressly disclaims any liability arising from the use of the information in this document for any purpose other than as specified herein.

Attachment to Calibration Certificate:

020213-028-102821-CTR

Manufacturer Tolerance Assessment

METTLER TOLEDO Service

Manufacturer Tolerance Assessment

Assessment done without considering measurement uncertainty.

The measurements from the attached test report were assessed against METTLER TOLEDO tolerances defined in the SOP 'Test and Measurement Procedures for METTLER TOLEDO balances', Document: 10000018502.

	As Found	As Left
Overall	✓	✓
Repeatability	N/A	N/A
Eccentricity	✓	✓
Linearity	✓	✓
Sensitivity	N/A	✓

Measurement Results

Repeatability

Eccentricity

Test Load: 50 g

Position	As Found	As Left
1	0.0000 g	0.0000 g
2	-0.0001 g	-0.0001 g
3	0.0001 g	0.0000 g
4	0.0002 g	0.0001 g
5	0.0000 g	-0.0001 g

Maximum Deviation	0.0002 g	0.0001 g
Tolerance	0.00030 g ✓	0.00030 g ✓

The maximum deviation is determined as the absolute value of the largest deviation from the center.

Attachment to Calibration Certificate:

020213-028-102821-CTR

Manufacturer Tolerance Assessment

METTLER TOLEDO Service**Linearity - Differential Method****As Found**

	Preload	Reference Value	Indication	Deviation
2	N/A	20.00000 g	20.00000 g	0.000040 g
3	20 g	20.00000 g	20.00000 g	0.000080 g
4	40 g	20.00000 g	19.9999 g	0.000020 g
5	60 g	20.00000 g	20.0000 g	0.000060 g
6	80 g	20.00000 g	19.9999 g	0.000000 g
8	N/A	100.0000 g	99.9999 g	N/A

Linearity Deviation	0.000080 g
Linearity Tolerance	0.0002 g ✓

Sensitivity Deviation	0.0001 g
Sensitivity Tolerance	N/A

The As Found Sensitivity Tolerance is only valid if the device has been adjusted before the test.

As Left

	Preload	Reference Value	Indication	Deviation
2	N/A	20.00000 g	20.00000 g	0.000002 g
3	20 g	20.00000 g	19.99999 g	-0.000006 g
4	40 g	20.00000 g	20.0000 g	-0.000004 g
5	60 g	20.00000 g	20.0000 g	-0.000002 g
6	80 g	20.00000 g	20.0000 g	0.000000 g
8*	N/A	100.0000 g	100.0000 g	N/A

Linearity Deviation	0.000006 g
Linearity Tolerance	0.0002 g ✓

Sensitivity Deviation	0.0000 g
Sensitivity Tolerance	0.0008 g ✓

The values in column "Deviation" and the "Linearity Deviation" are zero point offset and sensitivity error compensated.

* This point was used to satisfy the sensitivity requirement.

Traceable Certificate

201 Wolf Drive • Thorofare, NJ 08086-0087 • Phone: 856-686-1600 • Fax: 856-686-1601 • www.troemner.com • e-mail: troemner@troemner.com

Page 1 of 2 Pages
Weight

AIRNOVA
3485 Haddonfield Road
Pennsauken, NJ 08109

Serial Number 4879
Order Number AN-6725
Certificate Number 01099197
Date Of Calibration 30-SEP-2019
Calibration Due Date
As Found Out of Tolerance
As Left In Tolerance, Adjusted

Description of Weights: Analytical Weight Set

Material	Assumed Density at 20 °C	Range
Aluminum	2.7 g/cm ³	5mg-20mg
Stainless Steel	7.85 to 7.95 g/cm ³	50mg-100g

Tested with Reference Standards Traceable to the National Institute of Standards & Technology through NIST Test Number 684/289871-17.

We certify that the weights listed are calibrated to ASTM E617-13 Class 1 tolerances.

The calibration of these weights is based on apparent mass vs material of density 8.0 g/cm³.

Nominal Mass Value Notes	Serial Number	Correction before Calibration *	Correction after Calibration *	Tolerance (+ or -)	Uncertainty (+ or -)
100 g F		-0.493 mg	0.109 mg	0.250 mg	0.080 mg
50 g		-0.050 mg	-0.050 mg	0.120 mg	0.040 mg
20 g F		-0.193 mg	0.030 mg	0.074 mg	0.020 mg
20 g *F		-0.084 mg	0.037 mg	0.074 mg	0.020 mg
10 g F		-0.066 mg	0.022 mg	0.050 mg	0.015 mg
5 g F		-0.036 mg	0.009 mg	0.034 mg	0.011 mg
2 g F		0.030 mg	0.016 mg	0.034 mg	0.011 mg
2 g *F		0.025 mg	0.012 mg	0.034 mg	0.011 mg
500 mg N		mg	0.0016 mg	0.010 mg	0.0032 mg
500 mg N		mg	0.0021 mg	0.010 mg	0.0032 mg
200 mg N		mg	0.0005 mg	0.010 mg	0.0032 mg
200 mg *N		mg	-0.0020 mg	0.010 mg	0.0032 mg
100 mg		-0.0033 mg	-0.0033 mg	0.010 mg	0.0032 mg
100 mg *N		mg	-0.0016 mg	0.010 mg	0.0032 mg
50 mg N		mg	-0.0022 mg	0.010 mg	0.0030 mg
20 mg N		mg	0.0010 mg	0.010 mg	0.0030 mg
20 mg *N		mg	0.0005 mg	0.010 mg	0.0030 mg
5 mg		-0.0043 mg	-0.0043 mg	0.010 mg	0.0030 mg



Since 1903

ISO 9001 Registered

Thermometer Calibration Report

Traceable to NIST

The Instrument described below has been examined and tested in H-B Instrument Company's Calibration Laboratory using controlled constant temperature equipment and NIST Traceable Reference Thermometers, in accordance with H-B's ISO 9001 Calibration procedures, and NBS Monograph 174, ASTM Method E77, NIST Special Publication 819, and the International Temperature Scale ITS-90. Calibration is traceable to NIST and is in compliance with MIL-STD 45662A and ANSI/ASQC Q9002-1994. For a discussion of accuracy obtainable with such thermometers, see NIST SP 250-23.

14-Sep-04

VWR International

1451 North Raddant Road
Batavia IL 60510

Tel: Fax:

Reference No: 6447997

Report No. 307695
Serial No 3V0393
Part No 61099-139
Distributor VWR International
Manufacturer H-B Instrument Company/MW
Item Thermometer, Partial Immersion
Range 95/155°C, 0.2°Div., 108mm Imm.

N.I.S.T. Standard	Instrument Tested	Correction (ITS-90)*	N.I.S.T. Serial No.	N.I.S.T. Test No.	Test Liquid	Emer. Stem** Temperature
0.000 °C	0.060 °C	-0.060	710015	53394	Ice	°T
100.000 °C	99.940 °C	0.060	710015	53394	Oil	55.0 °C
110.000 °C	109.980 °C	0.020	710015	53394	Oil	55.0 °C
130.000 °C	129.920 °C	0.080	710015	53394	Oil	45.0 °C
150.000 °C	149.960 °C	0.040	710015	53394	Oil	40.0 °C
Ambient Air Temperature: 23 °C					Relative Humidity:	31 %

T - Total Immersion

This Report of Test may not be reproduced
without the express written permission
of H-B Instrument Company.

* Observed instrument readings should be increased by positive numbers or reduced by negative numbers indicated by a minus (-) sign.
** Emergent Stem Temperature relates to PARTIAL IMMERSION thermometers ONLY (see reverse).

The Platinum Resistance Thermometer (PRT) serial number above, was calibrated with an AC Bridge at a frequency of 90Hz and a constant current of 1.0 mA. This procedure is based on the technical information contained in NIST Technical Note 1265. Comparison points used to calibrate the thermometer range from a temperature of -196.000°C to 420.000°C. The calibration uncertainty of the AC Bridge and PRT is estimated not to exceed 0.026°C.

The Instrument is in good working order and is suitable for calibration. The capillary of the thermometer has been examined under magnification and no discernable capillary irregularities were noted. Strains in the glass revealed by examination under a polarized lens, if any, were judged to be minimal and of no detriment to the function of the instrument.

As a general guideline, certification/calibration of instruments once yearly is considered acceptable in most manufacturing and laboratory practices, but each organization must set its own policies.

David Yurgiewicz
Calibration Specialist

Richard Jackson
Vice President, Calibration Services



H-B Instrument Company

102 West Seventh Avenue, Trappe, PA 19426-0770 USA

Telephone 1-800-4-TEST-LAB Fax (610) 489-9100

e-mail Address: cal@hbinstrument.com

Website Address: www.hbinstrument.com

JB JB

Design Copyright ©HBI 2004

4835 APP B

BRANSON**SolutionsForToday. TechnologyForTomorrow.**

Branson Home • About Branson • Contact Us • Site Map

Search

Go

Advanced Search



BRANSONIC®

Tabletop Ultrasonic Cleaners

Home

 Branson® Support,
 Product Information,

Chemistry

Order Info

B200 ULTRASONIC CLEANER

Branson's Model B200 cleaner is compact and stylish, with the convenience of plug-in-anywhere operation. This model has the ultrasonic cleaning ability to handle a wide variety of applications; it is specifically designed to clean jewelry and optical pieces quickly and effectively.



• Premier Login

The Model B200 contains a stainless steel tank with a 15-ounce capacity. The tank is well sealed within an impact-resistant plastic housing. A cover and parts basket are included. This versatile unit features a 5 minute timer that shuts off automatically. All you need to do is add the appropriate solution for your application, followed by a thorough rinse.

The cleaner uses ultrasonic energy (40 kHz) in the form of sound waves to create millions of tiny microscopic bubbles in the solution that even works its way into holes and hidden cavities, loosening dirt on all surfaces that the solution touches. This action, called cavitation, occurs thousands of times per second to gently yet thoroughly scrub contamination off the article being cleaned. When you lift the item out of the cleaner, it's microscopically clean.

JEWELRY

The model B200 ultrasonic cleaner used with Branson's jewelry solution is all you need to clean your jewelry items such as gold, gemstones, platinum, rings, and watch bands.

Branson's Jewelry Cleaner Concentrate is a specialized biodegradable phosphate-free alkaline cleaner for jewelry and precious metals. A unique blend of nonionic surfactants, detergent bases, and wetting agents provides a safe cleaning medium for valuable jewelry. Gemstones and precious metals are quickly restored to their original brilliance with this free-rinsing solution.

OPTICS

The cleaner also is designed for optical cleaning of contact lenses, eye glasses, and optical components. Effective removal of cutting residue, polishing compounds, and handling soils such as fingerprints and dust, can be achieved with the use of Branson's Optical Solution followed by a thorough rinse.

OTHER CLEANING APPLICATIONS

- Instrument & clock parts
- Small geological samples
- Coins & hobby items
- Small electrical/electronic components
- Metal & plastic machine parts
- Recorders & drafting pens

Specifications

Overall Size 8.7" x 4.5" x 5"
 Tank Size 6.5" x 3.5" x 2.2"
 Weight 3 lbs





Joe Jackson
AirNova, Inc.
3485 Haddonfield Road
Pennsauken, NJ 08109
USA



Air and Emissions Study

Open Date: 01/31/2022

Close Date: 03/17/2022

Report Issued Date: 03/21/2022



A Waters Company

Joe Jackson
Laboratory Director
AirNova, Inc.
3485 Haddonfield Road
Pennsauken, NJ 08109
(856) 486-1500

EPA ID:
ERA Customer Number:
Report Issued:
Study Dates:

NA
A046358
03/21/2022
01/31/2022 - 03/17/2022

Ver. 1
Page 8 of 12

AE-59 Final Evaluation Report

TNI Analyte Code	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description	Analysis Date	Z Score	Study Mean	Study Standard Deviation	Analyst Name
AE Sulfur Dioxide in Impinger Solution (cat# 1043, lot# E059-1143)												
4010	Sulfur dioxide	mg/dscm	643	641	577 - 705	Acceptable	EPA 6 2000	2/10/2022	0.315	638	14.3	
AE Sulfur Dioxide in Impinger Solution (cat# 1043, lot# E059-1143)												
4010	Sulfur dioxide	mg/dscm	643	641	577 - 705	Acceptable	EPA 8 (Titration) 2000	2/10/2022	0.315	638	14.3	
AE Sulfur Dioxide in Impinger Solution (cat# 1043, lot# E059-1143)												
4010	Sulfur dioxide	mg/dscm	643	641	577 - 705	Acceptable	EPA 15A 2000	2/10/2022	0.315	638	14.3	
AE Sulfur Dioxide in Impinger Solution (cat# 1043, lot# E059-1143)												
4010	Sulfur dioxide	mg/dscm	643	641	577 - 705	Acceptable	EPA 16A 2000	2/10/2022	0.315	638	14.3	
AE Sulfuric Acid/Sulfur Dioxide in Impinger Solution (cat# 1044, lot# E059-1144)												
4020	H2SO4	mg/dscm	56.3	55.3	49.8 - 60.8	Acceptable	EPA 8 (Titration) 2000	2/10/2022	0.217	55.8	2.25	
AE Sulfuric Acid/Sulfur Dioxide in Impinger Solution (cat# 1044, lot# E059-1144)												
4020	H2SO4	mg/dscm	56.3	55.3	49.8 - 60.8	Acceptable	EPA 15A 2000	2/10/2022	0.217	55.8	2.25	
AE Sulfuric Acid/Sulfur Dioxide in Impinger Solution (cat# 1044, lot# E059-1144)												
4020	H2SO4	mg/dscm	56.3	55.3	49.8 - 60.8	Acceptable	EPA 16A 2000	2/10/2022	0.217	55.8	2.25	
AE Ammonia in Impinger Solution (cat# 1045, lot# E059-1145)												
1515	Ammonium	mg/L	7.67	7.58	6.61 - 8.41	Acceptable	EPA CTM-027 1998	2/7/2022	0.328	7.50	0.532	
AE Particulate Matter on Filter Paper (cat# 1050, lot# E059-1150)												
3915	Particulate matter	mg/filter	111.3	110	94.0 - 125	Acceptable	NJATM 1	2/8/2022	-0.506	112	0.574	
AE Particulate Matter on Filter Paper (cat# 1050, lot# E059-1150)												
3915	Particulate matter	mg/filter	111.3	110	94.0 - 125	Acceptable	EPA 5 2000	2/8/2022	-0.506	112	0.574	

835 APP B



All analytes are included in ERA's A2LA accreditation. Lab Code: 1539-01

16341 Table Mountain Pkwy • Golden, CO 80403 • 800.372.0122 • 303.431.8454 • fax 303.421.0159 • www.eraqc.com

Study #: AE-59





A Waters Company

Joe Jackson
Laboratory Director
AirNova, Inc.
3485 Haddonfield Road
Pennsauken, NJ 08109
(856) 486-1500

AE-59 Final Evaluation Report

EPA ID:
ERA Customer Number:
Report Issued:
Study Dates:

NA
A046358
03/21/2022
01/31/2022 - 03/17/2022

TNI Analyte Code	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description	Analysis Date	Z Score	Study Mean	Study Standard Deviation	Analyst Name
AE Particulate Matter on Filter Paper (cat# 1050, lot# E059-1150)												
3915	Particulate matter	mg/filter	111.3	110	94.0 - 125	Acceptable	EPA 5B 2000	2/8/2022	-0.506	112	0.574	
AE Particulate Matter on Filter Paper (cat# 1050, lot# E059-1150)												
3915	Particulate matter	mg/filter	111.3	110	94.0 - 125	Acceptable	EPA 5D 2000	2/8/2022	-0.506	112	0.574	
AE Particulate Matter on Filter Paper (cat# 1050, lot# E059-1150)												
3915	Particulate matter	mg/filter	111.3	110	94.0 - 125	Acceptable	EPA 5F 2000	2/8/2022	-0.506	112	0.574	
AE Particulate Matter on Filter Paper (cat# 1050, lot# E059-1150)												
3915	Particulate matter	mg/filter	111.3	110	94.0 - 125	Acceptable	EPA 17 2000	2/8/2022	-0.506	112	0.574	
AE Particulate Matter on Filter Paper (cat# 1050, lot# E059-1150)												
3915	Particulate matter	mg/filter	111.3	110	94.0 - 125	Acceptable	EPA 201 1996	2/8/2022	-0.506	112	0.574	
AE Particulate Matter on Filter Paper (cat# 1050, lot# E059-1150)												
3915	Particulate matter	mg/filter	111.3	110	94.0 - 125	Acceptable	EPA 201A 1997	2/8/2022	-0.506	112	0.574	
AE Particulate Matter on Filter Paper (cat# 1050, lot# E059-1150)												
3915	Particulate matter	mg/filter	111.3	110	94.0 - 125	Acceptable	EPA 202 1996	2/8/2022	-0.506	112	0.574	
AE Particulate Matter in Impinger Solution (cat# 1051, lot# E059-1151)												
3915	Particulate matter	mg/L	478.4	477	408 - 544	Acceptable	NJATM 1	2/8/2022	-0.298	480	3.86	
AE Particulate Matter in Impinger Solution (cat# 1051, lot# E059-1151)												
3915	Particulate matter	mg/L	478.4	477	408 - 544	Acceptable	EPA 5 2000	2/8/2022	-0.298	480	3.86	
AE Particulate Matter in Impinger Solution (cat# 1051, lot# E059-1151)												
3915	Particulate matter	mg/L	478.4	477	408 - 544	Acceptable	EPA 5B 2000	2/8/2022	-0.298	480	3.86	

835 APP B



All analytes are included in ERA's A2LA accreditation. Lab Code: 1539-01

16341 Table Mountain Pkwy • Golden, CO 80403 • 800.372.0122 • 303.431.8454 • fax 303.421.0159 • www.eraqc.com



Study #: AE-59



AE-59 Final Evaluation Report

A Waters Company

Joe Jackson
Laboratory Director
AirNova, Inc.
3485 Haddonfield Road
Pennsauken, NJ 08109
(856) 486-1500EPA ID:
ERA Customer Number:
Report Issued:
Study Dates:NA
A046358
03/21/2022
01/31/2022 - 03/17/2022

TNI Analyte Code	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description	Analysis Date	Z Score	Study Mean	Study Standard Deviation	Analyst Name
AE Particulate Matter in Impinger Solution (cat# 1051, lot# E059-1151)												
3915	Particulate matter	mg/L	478.4	477	408 - 544	Acceptable	EPA 5D 2000	2/8/2022	-0.298	480	3.86	
AE Particulate Matter in Impinger Solution (cat# 1051, lot# E059-1151)												
3915	Particulate matter	mg/L	478.4	477	408 - 544	Acceptable	EPA 5F 2000	2/8/2022	-0.298	480	3.86	
AE Particulate Matter in Impinger Solution (cat# 1051, lot# E059-1151)												
3915	Particulate matter	mg/L	478.4	477	408 - 544	Acceptable	EPA 17 2000	2/8/2022	-0.298	480	3.86	
AE Particulate Matter in Impinger Solution (cat# 1051, lot# E059-1151)												
3915	Particulate matter	mg/L	478.4	477	408 - 544	Acceptable	EPA 201 1996	2/8/2022	-0.298	480	3.86	
AE Particulate Matter in Impinger Solution (cat# 1051, lot# E059-1151)												
3915	Particulate matter	mg/L	478.4	477	408 - 544	Acceptable	EPA 201A 1997	2/8/2022	-0.298	480	3.86	
AE Particulate Matter in Impinger Solution (cat# 1051, lot# E059-1151)												
3915	Particulate matter	mg/L	478.4	477	408 - 544	Acceptable	EPA 202 1996	2/8/2022	-0.298	480	3.86	



State of New Jersey
Department of Environmental Protection
Certifies That

AIRNOVA INC

Laboratory Certification ID # 04011

is hereby approved as a

Nationally Accredited Environmental Laboratory
to perform the analyses as indicated on the Annual Certified Parameter List
which must accompany this certificate to be valid

having duly met the requirements of the

Regulations Governing the Certification of

Laboratories and Environmental Measurements N.J.A.C. 7:18 et. seq.
and

having been found compliant with the 2016 TNI Standard approved by the

The NELAC Institute

Expires June 30, 2023



NJDEP is a NELAP Recognized Accreditation Body



Michele M. Potter
Michele M. Potter
Manager

This certificate is to be conspicuously displayed at the laboratory with the annual certified parameter list in a location on the premises visible to the public. Consumers are urged to verify the laboratory's current accreditation status with the State of NJ, NELAP.

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTERExpires 12:01 AM April 01, 2023
Issued April 01, 2022

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

*Issued in accordance with and pursuant to section 502 Public Health Law of New York State*MR. MARK DALY
AIRNOVA, INC.
3485 HADDONFIELD ROAD
PENNSAUKEN, NJ 08109

NY Lab Id No: 12033

*is hereby APPROVED as an Environmental Laboratory in conformance with the
National Environmental Laboratory Accreditation Conference Standards (2016) for the category
ENVIRONMENTAL ANALYSES AIR AND EMISSIONS
All approved analytes are listed below:*

Miscellaneous

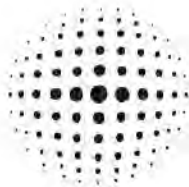
Particulate Matter	40 CFR 60 APP A Method 5 EPA 201 EPA 201A EPA 17
Sulfur Dioxide	40 CFR 60 Method 8 40 CFR 60 Method 6
Sulfuric Acid	40 CFR 60 Method 8

Serial No.: 64936

Property of the New York State Department of Health. Certificates are valid only at the address shown, must be conspicuously posted, and are printed on secure paper. Continued accreditation depends on successful ongoing participation in the Program. Consumers are urged to call (518) 485-5244 to verify the laboratory's accreditation status.



4835 APP B

**AirNova, Inc.**

3485 Haddonfield Road, Pennsauken, New Jersey 08109
Phone (856) 486-1500 • Fax (856) 486-9896 • www.airnova.com

Primary NELAC & NJ Lab Cert. No. 04011

Secondary NY NELAC No.12033

Reciprocated VA NELAC No.460234

PA Env. Lab Reg. No. 68-01676

Client: AirNova @ Fogo DeChao Restraunts, Queens
Location: Charcoal Broiler, Molitron Spray Mist Control

EPA Method 5 - Particulate Analysis Results Summary (Mass Data)

AirNova Project #: 4835
Lab Book #: 5-7-122
Sample Date: 10/18/2022
Date Rec'd: 10/18/2022

Sample Train Filter Analysis

Run #	Mass (mg)	Tare(g)	Total(g)	Diff(g)	Qual. Eval.
1	37.2	0.6165	0.6537	0.0372	black
Uncontrolled					
2	12.4	0.6226	0.6350	0.0124	light brown
Controlled					

Acetone Rinse Analysis

Run #	Mass (mg)	Tare(g)	Total(g)	Diff(g)	Samp.Vol(mL)
1	7.3	6.2794	6.2867	0.0073	300
Uncontrolled					
2	4.5	4.9017	4.9062	0.0045	300
Controlled					
Field Reagent Blank		6.0152	6.0155	< 0.00035	300

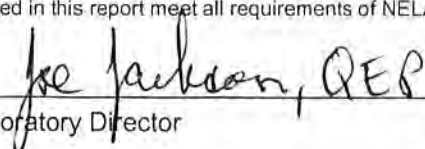
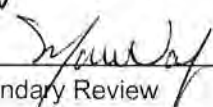
Final weights are recorded after reaching "constant weight" as defined in EPA5 Section 11.2.1.

*Gravimetric MDL= 0.35mg

The analytical results obtained relate only to the samples included within this report.

This report should not be reproduced except in full, without the written approval of AirNova, Inc.

AirNova, Inc. certifies that the test results contained in this report meet all requirements of NELAC.


Laboratory Director10/24/22
Date
Secondary Review10/24/22
Date

**AirNova, Inc.**

3485 Haddonfield Road, Pennsauken, New Jersey 08109
Phone (856) 486-1500 • Fax (856) 486-9896 • www.airnova.com

Primary NELAC & NJ Lab Cert. No. 04011

Reciprocated VA NELAC No.460234

Secondary NY NELAC No.12033

PA Env. Lab Reg. No. 68-01676

Client: AirNova @ Fogo DeChao, Queens
AirNova Project #: 4835
Location: Charcoal Broiler, Spray Mist Control
Sample Date: 10/18/2022
Date Received: 10/18/2022

EPA Method 202 (Dry) - Condensable Particulate Matter Summary (Mass Data)

Lab Book #: 202-6-104

mo = Mass of organic CPM, mg
mi = Mass of inorganic CPM, mg
mr = Mass of dried sample from inorganic fraction, mg
mc = Mass of NH₄⁺ added to form ammonium sulfate, mg
mi = mr - mc

Total milligrams of CPM, $m_{cpm} = mo + mi - mfb$ (EPA 202 Equation 4)
where mfb = Org. Field Blank + Inorg. Field Blank, mg

Run #	mo	mi	mr	mc		mfb	mofb	mifb
1 Uncontrol	2.5	3.5	3.5	0.0	*	1.8	1.1	0.7
1 Controlled	1.3	1.2	1.2	0.0	*	1.8	1.1	0.7

mcpm (blank corr)			
Run #	Total CPM mg	mo	mi
1 Uncontrol	4.2	1.4	2.8
1 Controlled	0.7	0.2	0.5

* maximum blank correction allowed is 2.0mg

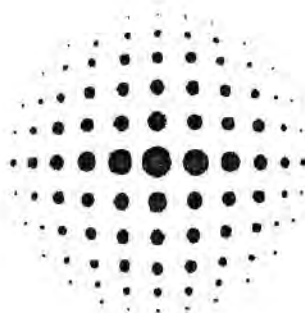
Final weights are recorded after reaching "constant weight" as defined in EPA202 Section 3.2.

Gravimetric MDL (mg)= 0.35 (use zero for calculations if blank quantity is <= MDL per NJDEP)

The analytical results obtained relate only to the samples included within this report.

This report should not be reproduced except in full, without the written approval of AirNova, Inc.

AirNova, Inc. certifies that the test results contained in this report meet all requirements of NELAC.



AirNova, Inc. Laboratory
EPA Method 202 - Fraction Information and Calculations

Client: AirNova @ Fogo DeChao, Queens
 AirNova Project #: 4835
 Location: Charcoal Broiler, Spray Mist Control
 Sample Date: 10/18/2022
 Date Received: 10/18/2022

EPA Method 202 (Dry) - Condensable Particulate Analysis (Mass Data)

Lab Book #: 202-6-104

Back Half Organic Fraction - (Acetone/Hexane)

Mass of organic CPM (mo)				
Run #	(mg)	Tare(g)	Total(g)	Diff (mg)
1 Uncontrol	2.5	5.4850	5.4875	2.5
1 Controlled	1.3	6.2500	6.2513	1.3
Organic Field Train Recovery Blank (mob)	5.8941	5.8952	1.1	1.1
Organic Field Train Proof Blank	6.3113	6.3115	0.2	*
Acetone Field Reagent Blank 300mL	6.0152	6.0155	0.3	*
Hexane Field Reagent Blank 300mL	5.8450	5.8450	0.0	*

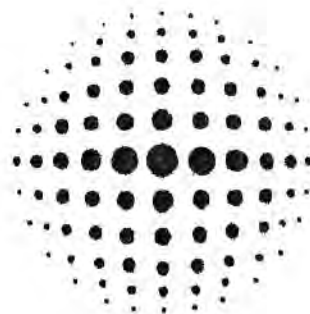
Back Half Inorganic Fraction - Aqueous post-extraction

Mass of Inorganic CPM (mi)				mc = 17.03 x Vt x N			
Run #	Mass (mi) (mg)	NH3 correction (mc) (mg)	Tare(g)	Total(g)	Net Diff(g)	Dried inorganic mass (mr) (mg)	Vol.(Vt)** (mL)
1 Uncontrol	3.5		5.9610	5.9645	0.0035	3.5	NA
1 Controlled	1.2		5.9103	5.9115	0.0012	1.2	NA
Recovery Blank	0.7	0.0				0.0	NA
Inorganic Field Train Recovery Blank (mib)	5.6129	5.6136	0.0007	0.7	NA		
Inorganic Field Train Proof Blank	5.8706	5.8713	0.0007	0.7			
Water Field Reagent Blank 300mL	6.1035	6.1041	0.0006	0.6			
Water Lab Reagent Blank 300mL	5.7662	5.7662	0.0000	0.0 *			
** Volume of NH4OH titrant				0.100 Normal	100mL sample		

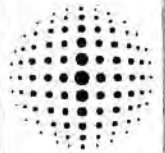
* Gravimetric MDL= 0.35mg



AirNova, Inc.



AirNova, Inc. Laboratory
Chain-of-custody



AirNova, Inc.
3485 Haddonfield Road
Pennsauken, New Jersey 08109
Phone: 856-486-1500
Fax: 856-486-9896
www.airnova.com

Chain Of Custody Documentation Form

COC Doc #

Page 1 of 1

Report Results To: AIRNOVA

Sample Date: 10-18-22

Recovery Date: 10-18-22

Sample Location: Commercial Charcoal Broiler

Sample Fractions

(Indicate # of each and Container Type)

Fraction Type Legend

W = Wash C = Catch Q = Quartz
F = Front B = Back T = Fluoropolymer

Container Type Legend

P = Polybottle (HDPE) V = Vial
G = Glass w/fluorolid D = Petri Dish

T = Trap

Preservation

Safety Seal Intact (Y/N)

Any Sample Loss Noted?

Priority Results (✓ for yes)

Iced Cooler

HCl

KMnO₄/H₂SO₄HNO₃/H₂O₂HNO₃H₂SO₄H₂O₂

IPA

Hexane

Hexane Acetone

Water

Acetone

Filter (# if applicable)

Gas Sample (Bag #)

Run #

Collection / Analysis Method (include additional requirements)

Test Set

EPA5/202

Single Point

Kinetic

Control

Uncollected

202 Field Train Recovery BL

202 Field Train Pre-Test BL

202 Field Reagent Blanks (300mL)

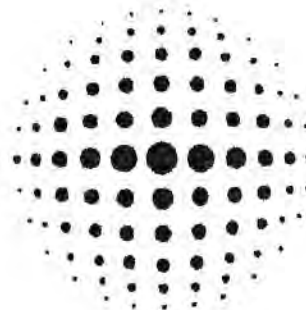
4835 APP B

Notes:

Relinquished By: (Print) (Sign) (Date) (Time)

Received By: (Print) (Sign) (Date) (Time)

Chain of Custody Revision 5 (April 2019)

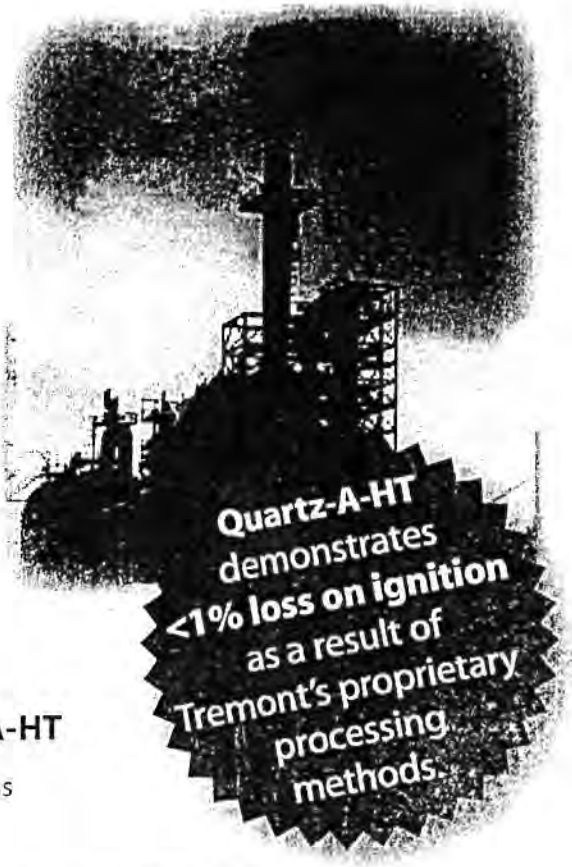


AirNova, Inc. Laboratory
Calibration Documents and Analytical Certificates

I.W. TremontTechnical and Specialty Papers
ISO 9001:2008 Registered18 Utter Avenue
Hawthorne, New Jersey 07506 USA
T. 973-427-3800 F. 973-427-3778
www.iwtremont.com

Have a high temperature air sampling application?

Grade:	Quartz - A and Quartz-A-HT
Material Attributes:	High purity, binder free Quartz (SiO ₂) glass microfiber filter media
Particle retention:	2.0 - 2.2µm (Minimum retention tested 99.998% DOP (0.3µm) ASTM D2986)
Basis weight:	85 g/m ²
Thickness:	0.45 - 0.47mm
Maximum Temp:	Quartz-A = 950° C Quartz-A-HT = 1150° C
Flow rate:	1.1 – 1.35 m ³ /min (Resistance 95mm H ₂ O @ 10.5 ft/min)
Loss on Ignition:	Quartz-A = <6% Quartz-A-HT = <2%
Tensile strength:	Quartz-A = 215g / 15mm (ASTM D828), MD tensile is 7.3 lbs/in (TAPPI T494) Quartz-A-HT = 285g / 15mm (ASTM D828), MD tensile is 11.3 lbs/in (TAPPI T494)



**Quartz-A-HT
demonstrates
<1% loss on ignition
as a result of
Tremont's proprietary
processing
methods.**

- Ideal for use in acidic gases and aerosols, stacks and flue gas monitoring.
- This media meets or exceeds the physical, performance and elemental requirements for EPA PM₁₀, Ambient Air Monitoring methods.
- Ideal for use in acidic gases (*except Hydrofluoric*) and aerosols, stacks and flue gas monitoring.
- Uniform screen & felt sides with uniform density MD/CD.
- Manufacturing performed with RO water filtration system.
- This media demonstrates excellent lot-to-lot reproducibility.
- Material chemistries are verified against a standard using GC techniques prior to paper making process.
- CofC and CofA provided upon request with order.
- Most cost effective material of its kind offered in the analytical market today.



Certification

Product Information:

(1) P/N: SPEC20105

Descriptions:

(1) PTFE Hydrophobic Membrane Filters, 1.0 um, 8 inch x 10 inch, Nonsterile, 25 per pack

Through the verification of our laboratory, it is concluded that the above filter membrane has more than 99.95% collection efficiency for 0.3 micron particles.

Regards,

Mike

Technical support



Tisch Environmental Inc (Scientific Div.)
 145 South Miami Ave.
 Cleves, Ohio 45002
 Ph: 513-467-0222

CERTIFICATE OF CONFORMANCE

Basic Information

Products: PTFE membrane Filter with Pore size : 0.1um, 0.22um, 0.45um, 1.0um, 3.0um, 5.0um

Comment(s)

These filters have been produced in accordance with manufacturing instructions and meets the specification detailed below.

PTFE Membrane filters, Hydrophobic , exhibiting at least 99.95percent efficiency (<0.05 percent penetration)on 0.3 micron dioctyl phthalate smoke particles. The filter efficiency test shall be conducted in accordance with ASTM Standard Method D2986-71(Reapproved 1978) (Incorporated by reference-see 60.17). Test data From the supplier's quality control program are sufficient for this purpose. In sources containing SO₂ or SO₃, the filter material must be of a type that is nonreactive to SO₂ or SO₃. Citation 10 in Bibliography may be used to select the appropriate filter.

CERTIFIED CLEANED CONTAINERS

PC Class — Certificate of Compliance

The enclosed containers have been processed to meet USEPA directives for low level chemical analysis. Representative containers have been tested by independent certified laboratories for their appropriate use. ESS containers meet and exceed the required detection limits established by the USEPA in SPECIFICATIONS AND GUIDANCE FOR CONTAMINANT-FREE SAMPLE CONTAINERS (OSWER Directive #240.0-05A).

EXTRACTABLE ORGANIC COMPOUNDS (PROCEDURE 1)

Analyte	Quantitation Limit (ug/L)	Aradon-1016	<0.2	bis-(2-Chloroethoxy) methane	<1	Diethylphthalate	<1	Benzo[b]fluoranthene	<0.2
		Aradon-1221	<0.2	2,4-Dichlorophenol	<1	4-Chlorophenyl-Phenylether	<1	Benzo[k]fluoranthene	<0.15
PESTICIDES/PCB'S		Aradon-1232	<0.2	1,2,4-Trichlorobenzene	<1	Fluorene	<0.15	Benzo[a]pyrene	<0.15
Alpha-BHC	<0.005	Aradon-1242	<0.2	Naphthalene	<0.2	4-Nitroaniline	<1.5	Indeno[1,2,3-cd]pyrene	<0.2
Beta-BHC	<0.005	Aradon-1248	<0.2	4-Chloroaniline	<1	4,6-Dinitro-2-Methylphenol	<1	Dibenz[a,h]anthracene	<0.15
Delta-BHC	<0.005	Aradon-1254	<0.2	Hexachlorobutadiene	<1	N-Nitrosodiphenylamine	<1	Benzo[g,h,i]perylene	<0.15
Gamma-BHC (Lindane)	<0.005	Aradon-1260	<0.2	4-Chloro-3-Methylphenol	<1	N-Nitrosodimethylamine	<1	Benzoic Acid	<5
Heptachlor	<0.005	Aradon-1262	<0.2	2-Methylnaphthalene	<0.2	4-Bromophenyl-Phenylether	<1	Benzyl Alcohol	<1
Aldrin	<0.005	Aradon-1268	<0.2	Hexachlorocyclopentadiene	<1	Hexachlorobenzene	<1	1,1'-Biphenyl	<1
Heptachlor Epoxide	<0.005			2,4,6-Trichlorophenol	<1	Pentachlorophenol	<1	1,2,4,5-Tetrachlorobenzene	<1
Endosulfan I	<0.005			2,4,5-Trichlorophenol	<1	Phenanthrene	<0.2	1,4-Dinitrobenzene	<1
Dieldrin	<0.005			1,2-Diphenylhydrazine	<1	Anthracene	<0.1	1-Methylnaphthalene	<1
4,4'-DDE	<0.005			Carbazole	<1	Di-n-Butylphthalate	<0.2	2,3,4,6-Tetrachlorophenol	<1
Endrin	<0.005			bis-(2-Chloroisopropyl) ether	<1	Fluoranthene	<0.1	2,6-Dichlorophenol	<1
Endosulfan II	<0.005			2-Chlorophenol	<1	Pyrene	<0.15	3-Methylphenol	<1
4,4'-DDD	<0.005			2-Methylphenol	<1	Butylbenzylphthalate	<1	Aniline	<1
Endosulfan Sulfate	<0.005			2,2'-Oxybis-(1-Chloropropane)	<1	1,2-Dichlorobenzene	<1	Azobenzene	<1
4,4'-DDT	<0.005			4-Methylphenol	<1	1,3'-Dichlorobenzene	<1	1-Methylhydrazide	<1
Methoxychlor	<0.005			N-Nitroso-d-n-propylamine	<1	1,4'-Dichlorobenzene	<1	Benzo[d]furan	<1
Endrin Ketone	<0.005			Hexachlorocyclopentadiene	<1	3,3'-Dichlorobenzidine	<1	Benzoaldehyde	<1
Endrin Aldehyde	<0.005			Nitrobenzene	<1	Benzo[a]anthracene	<0.15	Caprolactam	<1
Alpha-Chlordane	<0.005			Isophorone	<1	Chrysene	<0.1	Diphenylamine	<1
Gamma-Chlordane	<0.005			2-Nitrophenol	<1	bis-(2-Ethylhexyl) Phthalate	<1	Pyridine	<1
Toxaphene	<0.005			2,4-Dimethylphenol	<1	Di-n-Octylphthalate	<1	TPH Diesel	<50.00

EXTRACTABLE ORGANIC COMPOUNDS (PROCEDURE 2)

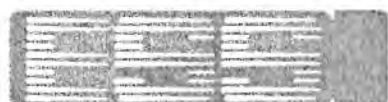
Analyte	Quantitation Limit (ug/L)	Chloromethane	<0.1	trans-1,2-Dichloroethane	<0.1	1,1,2,2-Tetrachloroethane	<0.1	4-Methyl-2-pentanone	<0.5
		2-Chlorotoluene	<0.1	1,2-Dichloropropane	<0.1	Tetrachloroethane	<0.1	Ethyl-tert-butyl ether	<0.1
Acetone	<2.0	4-Chlorotoluene	<0.1	1,3-Dichloropropane	<0.1	Toluene	<0.1	tert-amylmethyl ether	<0.1
Benzene	<0.1	2,4-Chlorotoluene	<0.2	2,2-Dichloropropane	<0.1	1,2,3-Trichlorobenzene	<0.1	diisopropyl ether	<0.1
Bromofarm	<0.1	Chloroform	<0.1	1,1-Dichloropropane	<0.1	1,2,4-Trichlorobenzene	<0.1	tert-butanol	<0.1
Bromobenzene	<0.1	Dibromomethane	<0.1	cis-1,3-Dichloropropane	<0.1	1,1,1-Trichloroethane	<0.1	o-xylene	<0.1
Bromochloromethane	<0.1	1,2-Dibromo-3-Chloropropane	<0.1	trans-1,3-Dichloropropane	<0.1	1,1,2-Trichloroethane	<0.1	m-xylene(1)	<0.2
Bromodichloromethane	<0.1	Dibromochloromethane	<0.1	Ethylbenzene	<0.1	Trichloroethene	<0.1	p-xylene(1)	<0.2
Bromomethane	<0.1	1,2-Dibromomethane (ED6)	<0.1	2-Hexanone	<0.5	Trichlorofluoromethane	<0.1	p-xylene(1)	<0.2
n-Butylbenzene	<0.1	1,2-Dichlorobenzene	<0.1	Hexachlorobutadiene	<0.1	Trichlorotrifluoroethane	<0.1	1,1-Dichloroethane	<1
n-Butylbenzene	<0.1	1,3-Dichlorobenzene	<0.1	Isopropylbenzene	<0.1	1,2,3-Trichloropropane	<0.005	1,3-Dichloropropane, Total	<1
sec-Butylbenzene	<0.1	1,4-Dichlorobenzene	<0.1	4-Isopropyltoluene	<0.1	1,2,3-Trimethylbenzene	<0.1	2-Butanone (MEK)	<1
tert-Butylbenzene	<0.1	Dichlorodifluoromethane	<0.1	Methylene Chloride	<0.5	1,2,4-Trimethylbenzene	<0.1	Acrylonitrile	<1
Carbon Tetrachloride	<0.1	1,1-Dichloroethane	<0.1	Naphthalene	<0.5	1,3,5-Trimethylbenzene	<0.1	Dichlorodifluoromethane	<1
Carbon Disulfide	<0.1	1,2-Dichloroethane	<0.1	Propylbenzene	<0.1	Vinyl Acetate	<0.5	Ethanol	<1
Chlorobenzene	<0.1	1,1-Dichloroethene	<0.1	Styrene	<0.1	Vinyl Chloride	<0.1	Tetrahydrofuran	<1
Chloroethane	<3	cis-1,2-Dichloroethene	<0.1	1,1,1,2-Tetrachloroethane	<0.1	Methyl-Tert-Butyl Ether	<0.1	TPH as Gasoline	<50.00

HEAVY METALS, FLUORIDE, NITRATE & NITRITE COMPOUNDS (PROCEDURE 3)

Analyte	Detection Limit (ug/L)	Barium	<0.03	Iron	<3	Nickel	<0.05	Thallium	<0.09
		Cadmium	<0.03	Lead	<0.05	Potassium	<50	Tin	<0.01
Aluminum	<0.5	Calcium	<3	Lithium	<0.1	Selenium	<0.5	Vanadium	<0.1
Antimony	<0.03	Chloride	<1	Magnesium	<4	Silver	<0.02	Zinc	<0.3
Arsenic	<0.01	Chromium	<0.06	Manganese	<0.1	Sodium	<6	Fluoride	<1
Barium	<0.03	Cobalt	<0.01	Mercury	<0.2	Strontium	<0.07	Nitrate + Nitrite	<1
Beryllium	<0.01	Copper	<0.08	Molybdenum	<0.5	Sulfate	<1		

This certificate only applies to the enclosed containers and does not add preservative (except HCl vials). ESS uses only Analytical Grade chemicals. All ESS PrePreserved containers include a case label with the reagent manufacturer and their lot number. Chemical Catalog can be found online using their lot number. For additional assistance or questions, call 800-233-8424 or email at: accord@essvial.com.

ON-TIME PRODUCTS FOR ENVIRONMENTAL SAMPLING & ANALYSIS



ENVIRONMENTAL SAMPLING SUPPLY

For more information on our cleaning
& monitoring procedures, please call

1-800-233-8425

www.essvial.com

6/30/21

Report ID:
020213-028-102821-CTR

Mettler Toledo, LLC

1900 Polaris Parkway
Columbus, OH 43240
1.800.METTLER

4835oct18 EPA5/202 12

METTLER TOLEDO

Comprehensive Test Report

Customer

Company:	AirNova Inc		
Address:	3485 Haddonfield Rd		
City:	Pennsauken	Contact:	Joe Jackson
Zip / Postal:	08109-3805	Order Number:	0332270300
State / Province:	New Jersey		

Weighing Device

Manufacturer:	Mettler Toledo	Instrument Type:	Weighing Instrument
Model:	XSR105DU	Asset Number:	N/A
Serial No.:	b937256455	Terminal Model:	N/A
Building:	N/A	Terminal Serial No.:	N/A
Floor:	1st	Terminal Asset No.:	N/A
Room:	Lab	Alternate Asset No.:	N/A

Range	Max. Capacity	Readability (d)
1	41 g	0.00001 g
2	120 g	0.0001 g

Procedure

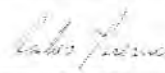
Guideline:	EURAMET cg-18 v. 4.0 (11/2015)
METTLER TOLEDO Work Instruction:	30260953

This report contains measurements for As Found and As Left testing.

The sensitivity/span of the weighing instrument was adjusted before As Left testing with a built-in weight.

In accordance with EURAMET cg-18 (11/2015), the test loads were selected to reflect the specific use of the weighing device or to accommodate specific test conditions.

As Found Testing Date:	28-Oct-2021	Service Technician:
As Left Testing Date:	28-Oct-2021	
Issue Date:	28-Oct-2021	
Next Testing Date:	31-Oct-2022	


Carlos Toscano

Report ID:
020213-028-102821-CTR

METTLER TOLEDO Service

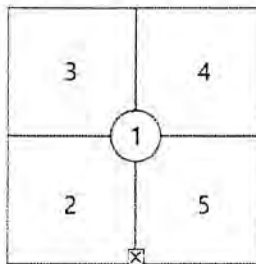
Measurement Results

Eccentricity

Eccentricity Test Load: 50 g

Position	As Found	As Left
1	0.0000 g	0.0000 g
2	-0.0001 g	-0.0001 g
3	0.0001 g	0.0000 g
4	0.0002 g	0.0001 g
5	0.0000 g	-0.0001 g

Maximum Deviation	0.0002 g	0.0001 g
-------------------	----------	----------



Error of Indication

	Tare Load	Reference Value	As Found		As Left	
			Indication	Error of Indication	Indication	Error of Indication
1	N/A	0.00000 g	0.00000 g	0.00000 g	0.00000 g	0.00000 g
2	N/A	20.00000 g	20.00000 g	0.00000 g	20.00000 g	0.00000 g
3	20 g	20.00000 g	20.00000 g	0.00000 g	19.99999 g	-0.00001 g
4	40 g	20.00000 g	19.9999 g	-0.0001 g	20.0000 g	0.0000 g
5	60 g	20.00000 g	20.0000 g	0.0000 g	20.0000 g	0.0000 g
6	80 g	20.00000 g	19.9999 g	-0.0001 g	20.0000 g	0.0000 g
7	N/A	60.0000 g	59.9999 g	-0.0001 g	60.0000 g	0.0000 g
8	N/A	100.0000 g	99.9999 g	-0.0001 g	100.0000 g	0.0000 g
9	N/A	120.0000 g	119.9999 g	-0.0001 g	120.0000 g	0.0000 g

Test Equipment

All weights used for metrological testing are traceable to national or international standards. The weights were calibrated and certified by an accredited calibration laboratory.

Weight Set 1: OIML E2

Weight Set No.: 511 Date of Issue: 07-Jul-2021
Certificate Number: 01209220-1 Calibration Due Date: 31-Jul-2022

Remarks

This document is issued to record completion of the work performed by METTLER TOLEDO on the subject device in accordance with agreed standards. It does not guarantee the continued performance of the subject device. Any measurements recorded are based on the subject device's performance at a given time as tested by METTLER TOLEDO and, except where explicitly stated otherwise, do not express an opinion as to the sufficiency of any customer designed procedures used to test the device. This document is not a warranty, either implied or express. METTLER TOLEDO expressly disclaims any liability arising from the use of the information in this document for any purpose other than as specified herein.

Attachment to Calibration Certificate:

020213-028-102821-CTR

Manufacturer Tolerance Assessment

METTLER TOLEDO Service

Manufacturer Tolerance Assessment

Assessment done without considering measurement uncertainty.

The measurements from the attached test report were assessed against METTLER TOLEDO tolerances defined in the SOP 'Test and Measurement Procedures for METTLER TOLEDO balances', Document: 10000018502.

	As Found	As Left
Overall	✓	✓
Repeatability	N/A	N/A
Eccentricity	✓	✓
Linearity	✓	✓
Sensitivity	N/A	✓

Measurement Results

Repeatability

Eccentricity

Test Load: 50 g

Position	As Found	As Left
1	0.0000 g	0.0000 g
2	-0.0001 g	-0.0001 g
3	0.0001 g	0.0000 g
4	0.0002 g	0.0001 g
5	0.0000 g	-0.0001 g

Maximum Deviation	0.0002 g	0.0001 g
Tolerance	0.00030 g ✓	0.00030 g ✓

The maximum deviation is determined as the absolute value of the largest deviation from the center.

Attachment to Calibration Certificate:

020213-028-102821-CTR

Manufacturer Tolerance Assessment

METTLER TOLEDO Service**Linearity - Differential Method****As Found**

	Preload	Reference Value	Indication	Deviation
2	N/A	20.00000 g	20.00000 g	0.000040 g
3	20 g	20.00000 g	20.00000 g	0.000080 g
4	40 g	20.0000 g	19.9999 g	0.000020 g
5	60 g	20.0000 g	20.0000 g	0.000060 g
6	80 g	20.0000 g	19.9999 g	0.000000 g
8	N/A	100.0000 g	99.9999 g	N/A

Linearity Deviation	0.000080 g
Linearity Tolerance	0.0002 g ✓

Sensitivity Deviation	0.0001 g
Sensitivity Tolerance	N/A

The As Found Sensitivity Tolerance is only valid if the device has been adjusted before the test.

As Left

	Preload	Reference Value	Indication	Deviation
2	N/A	20.00000 g	20.00000 g	0.000002 g
3	20 g	20.00000 g	19.99999 g	-0.000006 g
4	40 g	20.0000 g	20.0000 g	-0.000004 g
5	60 g	20.0000 g	20.0000 g	-0.000002 g
6	80 g	20.0000 g	20.0000 g	0.000000 g
8*	N/A	100.0000 g	100.0000 g	N/A

Linearity Deviation	0.000006 g
Linearity Tolerance	0.0002 g ✓

Sensitivity Deviation	0.0000 g
Sensitivity Tolerance	0.0008 g ✓

The values in column "Deviation" and the "Linearity Deviation" are zero point offset and sensitivity error compensated.

* This point was used to satisfy the sensitivity requirement.

Traceable Certificate

201 Wolf Drive • Thorofare, NJ 08086-0087 • Phone: 856-686-1600 • Fax: 856-686-1601 • www.troemner.com • e-mail: troemner@troemner.com

Page 1 of 2 Pages
Weight

AIRNOVA
3485 Haddonfield Road
Pennsauken, NJ 08109

Serial Number 4879
Order Number AN-6725
Certificate Number 01099197
Date Of Calibration 30-SEP-2019
Calibration Due Date
As Found Out of Tolerance
As Left In Tolerance, Adjusted

Description of Weights: Analytical Weight Set

Material	Assumed Density at 20 °C	Range
Aluminum	2.7 g/cm ³	5mg-20mg
Stainless Steel	7.85 to 7.95 g/cm ³	50mg-100g

Tested with Reference Standards Traceable to the National Institute of Standards & Technology through NIST Test Number 684/289871-17.

We certify that the weights listed are calibrated to ASTM E617-13 Class 1 tolerances.

The calibration of these weights is based on apparent mass vs material of density 8.0 g/cm³.

Nominal Mass Value Notes	Serial Number	Correction before Calibration *	Correction after Calibration *	Tolerance (+ or -)	Uncertainty (+ or -)
100 g F		-0.493 mg	0.109 mg	0.250 mg	0.080 mg
50 g		-0.050 mg	-0.050 mg	0.120 mg	0.040 mg
20 g F		-0.193 mg	0.030 mg	0.074 mg	0.020 mg
20 g *F		-0.084 mg	0.037 mg	0.074 mg	0.020 mg
10 g F		-0.066 mg	0.022 mg	0.050 mg	0.015 mg
5 g F		-0.036 mg	0.009 mg	0.034 mg	0.011 mg
2 g F		0.030 mg	0.016 mg	0.034 mg	0.011 mg
2 g *F		0.025 mg	0.012 mg	0.034 mg	0.011 mg
500 mg N		mg	0.0016 mg	0.010 mg	0.0032 mg
500 mg N		mg	0.0021 mg	0.010 mg	0.0032 mg
200 mg N		mg	0.0005 mg	0.010 mg	0.0032 mg
200 mg *N		mg	-0.0020 mg	0.010 mg	0.0032 mg
100 mg		-0.0033 mg	-0.0033 mg	0.010 mg	0.0032 mg
100 mg *N		mg	-0.0016 mg	0.010 mg	0.0032 mg
50 mg N		mg	-0.0022 mg	0.010 mg	0.0030 mg
20 mg N		mg	0.0010 mg	0.010 mg	0.0030 mg
20 mg *N		mg	0.0005 mg	0.010 mg	0.0030 mg
5 mg		-0.0043 mg	-0.0043 mg	0.010 mg	0.0030 mg

* Denotes weight is marked with a dot. N Denotes new weight. F Denotes failed As Found tolerance test.

10 As Found / 18 Total



Since 1903

ISO 9001 Registered

Thermometer Calibration Report

Traceable to NIST

The instrument described below has been examined and tested in H-B Instrument Company's Calibration Laboratory using controlled constant temperature equipment and NIST Traceable Reference Thermometers, in accordance with H-B's ISO 9001 Calibration procedures, and NBS Monograph 174, ASTM Method E77, NIST Special Publication 819, and the International Temperature Scale ITS-90. Calibration is traceable to NIST and is in compliance with MIL-STD 45662A and ANSI/ASQC Q9002-1994. For a discussion of accuracy obtainable with such thermometers, see NIST SP 250-23.

14-Sep-04

VWR International

1451 North Raddant Road
Batavia IL 60510

Tel: Fax:

Reference No: 6447997

Report No. 307695
Serial No 3V0393
Part No 61099-139
Distributor VWR International
Manufacturer H-B Instrument Company/MW
Item Thermometer, Partial Immersion
Range 95/155°C, 0.2°Div., 108mm Imm.

N.I.S.T. Standard	Instrument Tested	Correction (ITS-90)*	N.I.S.T. Serial No.	N.I.S.T. Test No.	Test Liquid	Emer. Stem** Temperature
0.000 °C	0.060 °C	-0.060	710015	53394	Ice	° T
100.000 °C	99.940 °C	0.060	710015	53394	Oil	55.0 °C
110.000 °C	109.980 °C	0.020	710015	53394	Oil	55.0 °C
130.000 °C	129.920 °C	0.080	710015	53394	Oil	45.0 °C
150.000 °C	149.960 °C	0.040	710015	53394	Oil	40.0 °C
Ambient Air Temperature: 23 °C					Relative Humidity:	31 %

T - Total Immersion

This Report of Test may not be reproduced
without the express written permission
of H-B Instrument Company.

* Observed instrument readings should be increased by positive numbers or reduced by negative numbers indicated by a minus (-) sign.
** Emergent Stem Temperature relates to PARTIAL IMMERSION thermometers ONLY (see reverse).

The Platinum Resistance Thermometer (PRT) serial number above, was calibrated with an AC Bridge at a frequency of 90Hz and a constant current of 1.0 mA. This procedure is based on the technical information contained in NIST Technical Note 1265. Comparison points used to calibrate the thermometer range from a temperature of -196.000°C to 420.000°C. The calibration uncertainty of the AC Bridge and PRT is estimated not to exceed 0.026°C.

The instrument is in good working order and is suitable for calibration. The capillary of the thermometer has been examined under magnification and no discernable capillary irregularities were noted. Strains in the glass revealed by examination under a polarized lens, if any, were judged to be minimal and of no detriment to the function of the instrument.

As a general guideline, certification/calibration of instruments once yearly is considered acceptable in most manufacturing and laboratory practices, but each organization must set its own policies.

David Yurgiewicz
Calibration Specialist

Richard J. Jock
Vice President, Calibration Services



H-B Instrument Company

102 West Seventh Avenue, Trappe, PA 19426-0770 USA

Telephone 1-800-4-TEST-LAB Fax (610) 489-9100

e-mail Address: cal@hbinstrument.com

Website Address: www.hbinstrument.com

JB JB

Design Copyright ©HBI 2004

4835 APP B

BRANSON**SolutionsForToday. TechnologyForTomorrow.**

Branson Home • About Branson • Contact Us • Site Map

Search

Go

Advanced Search



BRANSONIC®

Tabletop Ultrasonic Cleaners

Home

Branson® Support

Product Information

Chemistry

Order Info

B200 ULTRASONIC CLEANER

Branson's Model B200 cleaner is compact and stylish, with the convenience of plug-in-anywhere operation. This model has the ultrasonic cleaning ability to handle a wide variety of applications; it is specifically designed to clean jewelry and optical pieces quickly and effectively.



Premier Login

The Model B200 contains a stainless steel tank with a 15-ounce capacity. The tank is well sealed within an impact-resistant plastic housing. A cover and parts basket are included. This versatile unit features a 5 minute timer that shuts off automatically. All you need to do is add the appropriate solution for your application, followed by a thorough rinse.



The cleaner uses ultrasonic energy (40 kHz) in the form of sound waves to create millions of tiny microscopic bubbles in the solution that even works its way into holes and hidden cavities, loosening dirt on all surfaces that the solution touches. This action, called cavitation, occurs thousands of times per second to gently yet thoroughly scrub contamination off the article being cleaned. When you lift the item out of the cleaner, it's microscopically clean.

JEWELRY

The model B200 ultrasonic cleaner used with Branson's jewelry solution is all you need to clean your jewelry items such as gold, gemstones, platinum, rings, and watch bands.

Branson's Jewelry Cleaner Concentrate is a specialized biodegradable phosphate-free alkaline cleaner for jewelry and precious metals. A unique blend of nonionic surfactants, detergent bases, and wetting agents provides a safe cleaning medium for valuable jewelry. Gemstones and precious metals are quickly restored to their original brilliance with this free-rinsing solution.

OPTICS

The cleaner also is designed for optical cleaning of contact lenses, eye glasses, and optical components. Effective removal of cutting residue, polishing compounds, and handling soils such as fingerprints and dust, can be achieved with the use of Branson's Optical Solution followed by a thorough rinse.

OTHER CLEANING APPLICATIONS

- Instrument & clock parts
- Small geological samples
- Coins & hobby items
- Small electrical/electronic components
- Metal & plastic machine parts
- Recorders & drafting pens

Specifications

Overall Size 8.7" x 4.5" x 5"
Tank Size 6.5" x 3.5" x 2.2"
Weight 3 lbs





Joe Jackson
AirNova, Inc.
3485 Haddonfield Road
Pennsauken, NJ 08109
USA



Air and Emissions Proficiency Testing

Air and Emissions Study

Open Date: 01/31/2022

Close Date: 03/17/2022

Report Issued Date: 03/21/2022



AE-59 Final Evaluation Report

A Waters Company

Joe Jackson
Laboratory Director
AirNova, Inc.
3485 Haddonfield Road
Pennsauken, NJ 08109
(856) 486-1500

EPA ID:
ERA Customer Number:
Report Issued:
Study Dates:

NA
A046358
03/21/2022
01/31/2022 - 03/17/2022

TNI Analyte Code	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description	Analysis Date	Z Score	Study Mean	Study Standard Deviation	Analyst Name
AE Sulfur Dioxide in Impinger Solution (cat# 1043, lot# E059-1143)												
4010	Sulfur dioxide	mg/dscm	643	641	577 - 705	Acceptable	EPA 6 2000	2/10/2022	0.315	638	14.3	
AE Sulfur Dioxide in Impinger Solution (cat# 1043, lot# E059-1143)												
4010	Sulfur dioxide	mg/dscm	643	641	577 - 705	Acceptable	EPA 8 (Titration) 2000	2/10/2022	0.315	638	14.3	
AE Sulfur Dioxide in Impinger Solution (cat# 1043, lot# E059-1143)												
4010	Sulfur dioxide	mg/dscm	643	641	577 - 705	Acceptable	EPA 15A 2000	2/10/2022	0.315	638	14.3	
AE Sulfur Dioxide in Impinger Solution (cat# 1043, lot# E059-1143)												
4010	Sulfur dioxide	mg/dscm	643	641	577 - 705	Acceptable	EPA 16A 2000	2/10/2022	0.315	638	14.3	
AE Sulfuric Acid/Sulfur Dioxide in Impinger Solution (cat# 1044, lot# E059-1144)												
4020	H2SO4	mg/dscm	56.3	55.3	49.8 - 60.8	Acceptable	EPA 8 (Titration) 2000	2/10/2022	0.217	55.8	2.25	
AE Sulfuric Acid/Sulfur Dioxide in Impinger Solution (cat# 1044, lot# E059-1144)												
4020	H2SO4	mg/dscm	56.3	55.3	49.8 - 60.8	Acceptable	EPA 15A 2000	2/10/2022	0.217	55.8	2.25	
AE Sulfuric Acid/Sulfur Dioxide in Impinger Solution (cat# 1044, lot# E059-1144)												
4020	H2SO4	mg/dscm	56.3	55.3	49.8 - 60.8	Acceptable	EPA 16A 2000	2/10/2022	0.217	55.8	2.25	
AE Ammonia in Impinger Solution (cat# 1045, lot# E059-1145)												
1515	Ammonium	mg/L	7.67	7.58	6.61 - 8.41	Acceptable	EPA CTM-027 1998	2/7/2022	0.328	7.50	0.532	
AE Particulate Matter on Filter Paper (cat# 1050, lot# E059-1150)												
3915	Particulate matter	mg/filter	111.3	110	94.0 - 125	Acceptable	NJATM 1	2/8/2022	-0.506	112	0.574	
AE Particulate Matter on Filter Paper (cat# 1050, lot# E059-1150)												
3915	Particulate matter	mg/filter	111.3	110	94.0 - 125	Acceptable	EPA 5 2000	2/8/2022	-0.506	112	0.574	

35 APP B



All analytes are included in ERA's A2LA accreditation. Lab Code: 1539-01

16341 Table Mountain Pkwy • Golden, CO 80403 • 800.372.0122 • 303.431.8454 • fax 303.421.0159 • www.eraqc.com

Study #: AE-59





AE-59 Final Evaluation Report

A Waters Company

Joe Jackson
Laboratory Director
AirNova, Inc.
3485 Haddonfield Road
Pennsauken, NJ 08109
(856) 486-1500

EPA ID: NA
ERA Customer Number: A046358
Report Issued: 03/21/2022
Study Dates: 01/31/2022 - 03/17/2022

TNI Analyte Code	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description	Analysis Date	Z Score	Study Mean	Study Standard Deviation	Analyst Name
AE Particulate Matter on Filter Paper (cat# 1050, lot# E059-1150)												
3915	Particulate matter	mg/filter	111.3	110	94.0 - 125	Acceptable	EPA SB 2000	2/8/2022	-0.506	112	0.574	
AE Particulate Matter on Filter Paper (cat# 1050, lot# E059-1150)												
3915	Particulate matter	mg/filter	111.3	110	94.0 - 125	Acceptable	EPA SD 2000	2/8/2022	-0.506	112	0.574	
AE Particulate Matter on Filter Paper (cat# 1050, lot# E059-1150)												
3915	Particulate matter	mg/filter	111.3	110	94.0 - 125	Acceptable	EPA SF 2000	2/8/2022	-0.506	112	0.574	
AE Particulate Matter on Filter Paper (cat# 1050, lot# E059-1150)												
3915	Particulate matter	mg/filter	111.3	110	94.0 - 125	Acceptable	EPA 17 2000	2/8/2022	-0.506	112	0.574	
AE Particulate Matter on Filter Paper (cat# 1050, lot# E059-1150)												
3915	Particulate matter	mg/filter	111.3	110	94.0 - 125	Acceptable	EPA 201 1996	2/8/2022	-0.506	112	0.574	
AE Particulate Matter on Filter Paper (cat# 1050, lot# E059-1150)												
3915	Particulate matter	mg/filter	111.3	110	94.0 - 125	Acceptable	EPA 201A 1997	2/8/2022	-0.506	112	0.574	
AE Particulate Matter on Filter Paper (cat# 1050, lot# E059-1150)												
3915	Particulate matter	mg/filter	111.3	110	94.0 - 125	Acceptable	EPA 202 1996	2/8/2022	-0.506	112	0.574	
AE Particulate Matter in Impinger Solution (cat# 1051, lot# E059-1151)												
3915	Particulate matter	mg/L	478.4	477	408 - 544	Acceptable	NJATM 1	2/8/2022	-0.298	480	3.86	
AE Particulate Matter in Impinger Solution (cat# 1051, lot# E059-1151)												
3915	Particulate matter	mg/L	478.4	477	408 - 544	Acceptable	EPA 5 2000	2/8/2022	-0.298	480	3.86	
AE Particulate Matter in Impinger Solution (cat# 1051, lot# E059-1151)												
3915	Particulate matter	mg/L	478.4	477	408 - 544	Acceptable	EPA 5B 2000	2/8/2022	-0.298	480	3.86	

35 APP B



All analytes are included in ERA's A2LA accreditation. Lab Code: 1539-01

16341 Table Mountain Pkwy • Golden, CO 80403 • 800.372.0122 • 303.431.8454 • fax 303.421.0159 • www.eraqc.com

Study # : AE-59





A Waters Company

Joe Jackson
Laboratory Director
AirNova, Inc.
3485 Haddonfield Road
Pennsauken, NJ 08109
(856) 486-1500

EPA ID:
ERA Customer Number:
Report Issued:
Study Dates:

NA
A046358
03/21/2022
01/31/2022 - 03/17/2022

AE-59 Final Evaluation Report

Ver. 1
Page 10 of 12

TNI Analyte Code	Analyte	Units	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation	Method Description	Analysis Date	Z Score	Study Mean	Study Standard Deviation	Analyst Name
AE Particulate Matter in Impinger Solution (cat# 1051, lot# E059-1151)												
3915	Particulate matter	mg/L	478.4	477	408 - 544	Acceptable	EPA 5D 2000	2/8/2022	-0.298	480	3.86	
AE Particulate Matter in Impinger Solution (cat# 1051, lot# E059-1151)												
3915	Particulate matter	mg/L	478.4	477	408 - 544	Acceptable	EPA 5F 2000	2/8/2022	-0.298	480	3.86	
AE Particulate Matter in Impinger Solution (cat# 1051, lot# E059-1151)												
3915	Particulate matter	mg/L	478.4	477	408 - 544	Acceptable	EPA 17 2000	2/8/2022	-0.298	480	3.86	
AE Particulate Matter in Impinger Solution (cat# 1051, lot# E059-1151)												
3915	Particulate matter	mg/L	478.4	477	408 - 544	Acceptable	EPA 201 1996	2/8/2022	-0.298	480	3.86	
AE Particulate Matter in Impinger Solution (cat# 1051, lot# E059-1151)												
3915	Particulate matter	mg/L	478.4	477	408 - 544	Acceptable	EPA 201A 1997	2/8/2022	-0.298	480	3.86	
AE Particulate Matter in Impinger Solution (cat# 1051, lot# E059-1151)												
3915	Particulate matter	mg/L	478.4	477	408 - 544	Acceptable	EPA 202 1996	2/8/2022	-0.298	480	3.86	

4835 APP B



All analytes are included in ERA's A2LA accreditation. Lab Code: 1539-01

16341 Table Mountain Pkwy • Golden, CO 80403 • 800.372.0122 • 303.431.8454 • fax 303.421.0159 • www.eraqc.com



Study # : AE-59

State of New Jersey
Department of Environmental Protection
Certifies That

AIRNOVA INC
Laboratory Certification ID # 04011

is hereby approved as a
Nationally Accredited Environmental Laboratory
to perform the analyses as indicated on the Annual Certified Parameter List
which must accompany this certificate to be valid

having duly met the requirements of the
Regulations Governing the Certification of
Laboratories and Environmental Measurements N.J.A.C. 7:18 et. seq.
and
having been found compliant with the 2016 TNI Standard approved by the
The NELAC Institute

Expires June 30, 2023



NJDEP is a NELAP Recognized Accreditation Body




Michele M. Potter
Manager

This certificate is to be conspicuously displayed at the laboratory with the annual certified parameter list in a location on the premises visible to the public. Consumers are urged to verify the laboratory's current accreditation status with the State of NJ, NELAP.

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



Expires 12:01 AM April 01, 2023
Issued April 01, 2022

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MR. MARK DALY
AIRNOVA, INC.
3485 HADDONFIELD ROAD
PENNSAUKEN, NJ 08109

NY Lab Id No: 12033

*is hereby APPROVED as an Environmental Laboratory in conformance with the
National Environmental Laboratory Accreditation Conference Standards (2016) for the category
ENVIRONMENTAL ANALYSES AIR AND EMISSIONS
All approved analytes are listed below:*

Miscellaneous

Particulate Matter	40 CFR 60 APP A Method 5 EPA 201 EPA 201A EPA 17
Sulfur Dioxide	40 CFR 60 Method 8 40 CFR 60 Method 6
Sulfuric Acid	40 CFR 60 Method 8

Serial No.: 64936

Property of the New York State Department of Health. Certificates are valid only at the address shown, must be conspicuously posted, and are printed on secure paper. Continued accreditation depends on successful ongoing participation in the Program. Consumers are urged to call (516) 485-5570 to verify the laboratory's accreditation status.

