

2020 MARAMA air monitoring meeting



ATEC Canister Sampler -Model 2200 Single channel

Pro:

- ▶ □ Automatic leak checks prior to the start of sampling
- ▶ □ Canister pressure and flow monitored for out of tolerance conditions
- ▶ □ Auto zero of mass flow controllers

Pro:

- ▶ □ Software calibration of mass flow controllers and pressure transducers
- ▶ □ On screen Standard Operating Procedures provide step-by-step guidance for operators during instrument setup and post sample data retrieval
- ▶ □ Auto sense feature only uses canisters that have not been sampled

Pro:

- ▶ □ Sub-ambient or pressurized canister sampling options
- ▶ □ User selectable final canister pressure (14-20 psia)
- ▶ □ Optional label printer to provide QA labels for canisters (use one printer for both samplers cartridges and canister sampler)
- ▶ □ Data download to jump drive

Pro:

- ▶ □ Programmable purge for main units and expansion units flushes entire sample path prior to sampling. (Avoid contamination)
- ▶ □ Specially designed inlet to minimize condensation in sampling lines
- ▶ □ Manual mode operation to activate all components

PHILADELPHIA AIR MANAGEMENT SERVICES

AIR TOXICS TO-15: 24 HOUR CANISTER SAMPLE FIELD DATA

Canister Number: 6349 Sampling Date: 10/18/20

SITE SITE CODE

CHOOSE SITE	NEW	421010048
	NEW-Duplicate	421010048
	SWA	421010063
	ROX	421010014
	RIT	421010055

Sampler ID: 702

Weather: Cloudy

Unit time checked? Yes No

Setup Date: 10/13/20

Start Date: 10/17/20

Start Time (mil.): 23:00 00:00 (EST) or 23:00 (DST)

Stop Date: 10/18/20

Stop Time(mil.): 23:00 00:00 (EST) or 23:00 (DST)

Removal Date: 10/20/20

ETI Counter Reading Initial Reading = 0.00

Elapsed Time (min): 60 x 24 = 1440

Flow Set (SCCM): 9.0

Initial Pressure (in. Hg) -30.

Final Pressure (psig) 15.30

Indicate if Invalid

Comments:

Canister Ch. 1 ROX 6349
 Start: 10/17/2020 23:00:06 0.38 psi
 End: 10/18/2020 23:00:02 14.70 psi
 Avg. F: 4.13 Flags: 8

CANISTER SET UP BY: NS

REMOVED BY: NS

Canister return date: 10/20/2020

RECEIVED AT LAB BY: SA

RECEIVED DATE: 10/20/2020

Con:

- ▶ □ Calibration of canister flow is tricky. (As shown in spreadsheet, flow set at 4.13 sccm)

Flags:

- 0 No Errors
- 1 Used Can Pressure Limit Exceeded
- 2 Leak Check Flow Limit Exceeded
- 4 Temperature Tolerance Exceeded
- 8 Pressure Tolerance Exceeded
- 16 Flow Rate Tolerance Exceeded
- 32 Flow Rate Zero Exceeded
- 64 Power Failure
- 128 Aborted
- 256 Post Run Leak Check Flow Limit Exceeded
- 512 Inlet Purge Line Flow Limit



Manifold

1/8" OD tubing
Stainless Steel

Set Up at Site