

# AV-Trend Sample Reports

March, 2011

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# Real-Time Displays

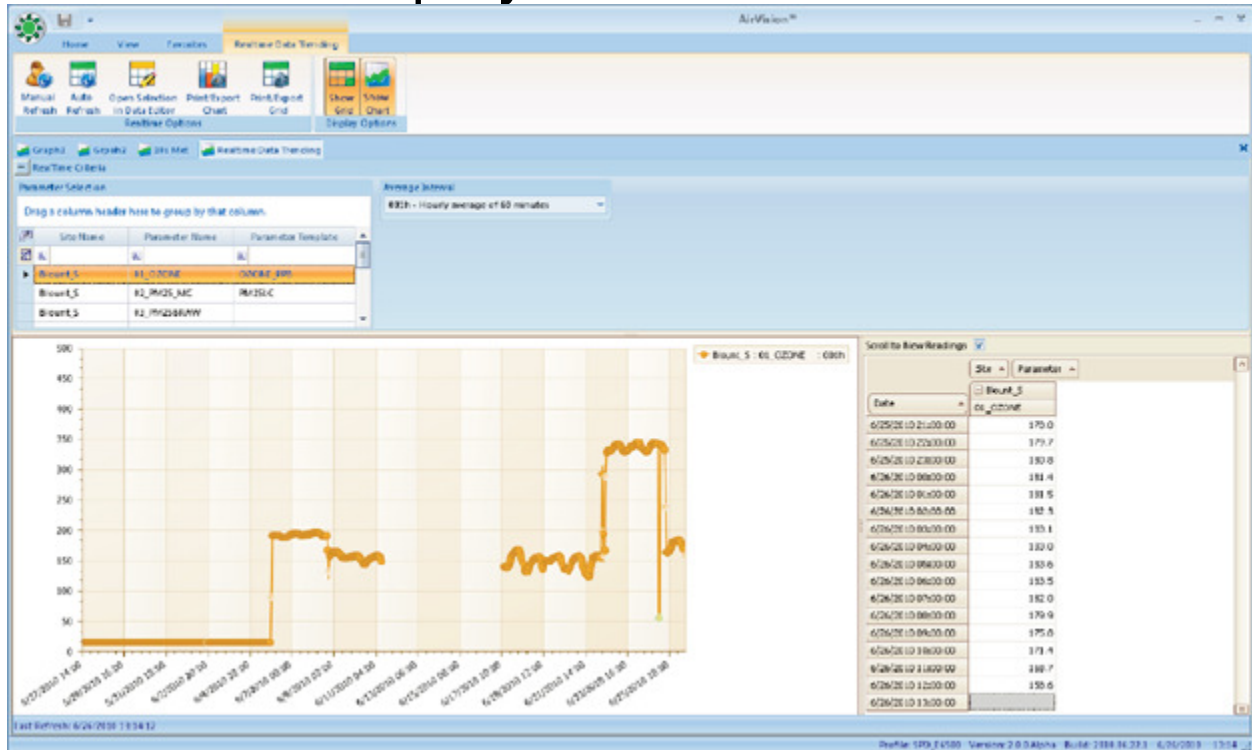
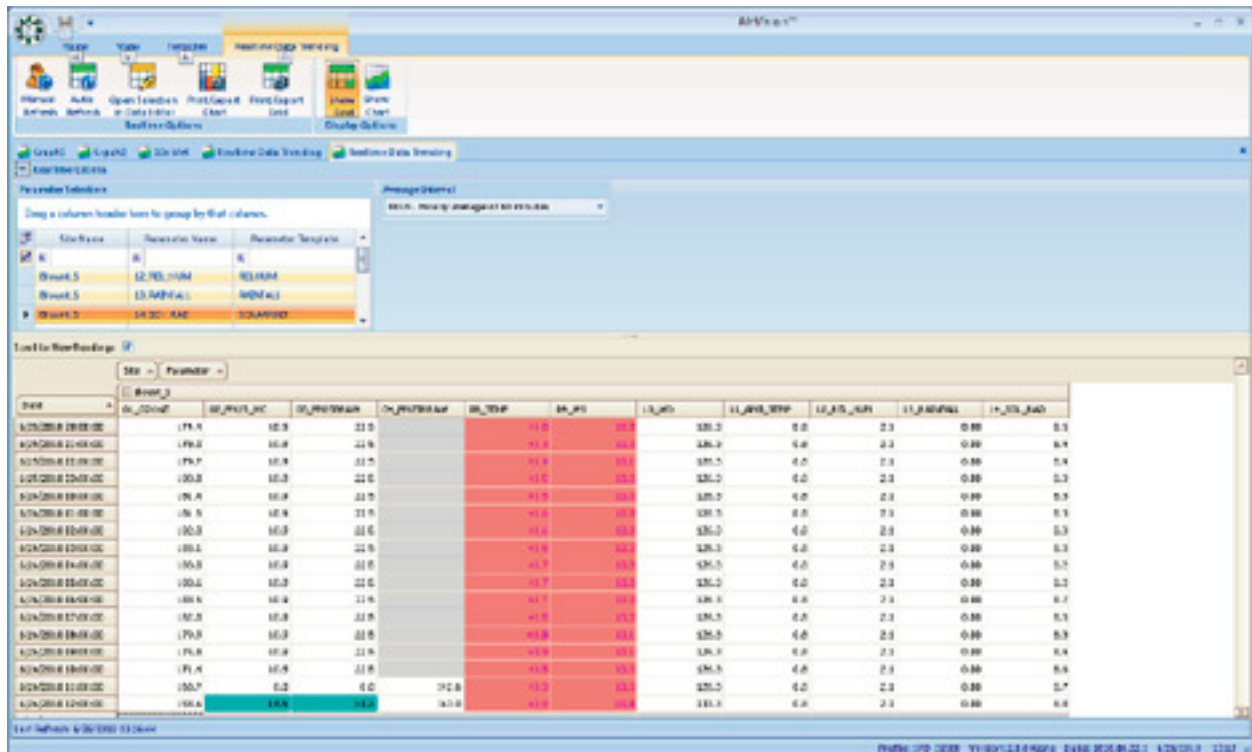


Chart + Tabular Display



Tabular Display Only

# Routine Reports

## Daily Summary Report

This report is usually used for the daily summary of hourly data for all parameters at a site (or a range of selected sites), but can be used to report any time range or average interval. Statistics are provided at the bottom of each column.

Report Output

Current Time: 7/8/2009 1:24:12 PM

Daily Summary Report

Site: COVEMTN 1/7/2009 Interval: 001h

Hour	OZONE PPB	SO2 PPM	VWDR DEG	VWSP MPH
00:00	87.8	66.92	150	14.4
01:00	87.6	66.584	168.8	14.3
02:00	87	64.864	187.1	14.2
03:00	86	62.181	204.2	13.9
04:00	84.6	59.076	219.5	13.6
05:00	82.9	56.046	232.7	13.3
06:00	80.8	53.468	243.3	12.8
07:00	78.4	51.543	251.1	12.3
08:00	75.7	50.425	255.9	11.8
09:00	72.7	50.133	257.7	11.2
10:00	69.4	50.585	256.7	10.6
11:00	65.9	51.572	253	10
12:00	62.3	52.772	246.9	9.4
13:00	58.5	53.826	238.9	8.8
14:00	54.6	54.456	229.3	8.3
15:00	50.6	54.54	218.8	7.8
16:00	46.6	54.123	207.7	7.3
17:00	42.6	53.359	196.6	6.9
18:00	38.7	52.438	186	6.6
19:00	34.9	51.54	176.3	6.3
20:00	31.2	50.816	167.8	6.1
21:00	27.6	50.381	160.9	6
22:00	24.3	50.298	155.6	5.9
23:00	21.2	50.565	152	5.9
Average	60.496	54.688	209.033	9.904
Max	87.8	66.92	257.7	14.4
Min	21.2	50.133	160	5.9
Count	24	24	24	24

Zoom Factor: 100%

This report is also available as a "Basic Data Export" report that removes all summary information at the bottom, and all page breaks, so vast periods of data of any average interval (hour, minute, N-minute) and any number of site/parameters can be exported as columns. This is the best output format for import into spreadsheets or other programs.

# Monthly Report

This report provides a matrix view of a single parameter, showing values for the entire month. Invalid or flagged data is shown with a color background or font change defining the data condition. Statistics are provided for each row (day) and column (hour).

Current Date: 3/1/2010 10:47 AM  
 Site Name: Blount\_S  
 Parameter: 01\_OZONE

Monthly Report  
 January 2006

Avg Interval: 1 hour  
 Units: PPB

Day	Hours																							Summary				
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Avg	Max	RDS	
01	34.0 E	18.4	17.2	18.7	18.2	16.5	14.4	13.8	13.9	14	15.7	15.5	16.2	15.8	15.3	13.5	10.4	7.7	6.4	5.4	3.9	1.2	1.6	8 E	114.2	429.6	49	
02	8 E	.9	1.6	.6	.6	8 E	.7	1.6	3.6	8.1	9.7	11.4	11.7	9.9	8.8	8.6	4.7	4.1	6.6	7.8	9.1	9.7	10.5	7.7	6	11.7	23	
03	8 E	7.2	5.8	6.8	10.6	14.6	16.8	19.1	24.1	24.4	26	27.4	30.4	30.9	32.3	32.2	32.1	30.8	29.8	29	27.2	20.4	16.6	19.8	22.4	32.3	23	
04	8 E	22	23.1	24.3	16.2	17.8	14.2	11.3	16.2	26	26.6	30.5	29.9	30.9	29.3	28.4	27.1	22.6	24.9	40.9	38.9	37.1	35.2	33.8	26.4	40.9	23	
05	8 E	21.3	24.2	23	21.7	22.1	19.2	16.7	15.3	14.8	13.7	11.9	10	9.4	5.9	4.4	1.6	8 E	8 E	8 E	8 E	8 E	8 E	4.1	9.3	10.9	24.2	23
06	8 E	17	18.5	19.5	20.1	19.4	18.6	18.1	17.6	16.8	17.9	19.8	22.4	22.2	22.8	22.5	26.8	31.2	27.3	22.8	27.7	28.5	27.9	27.7	22.3	31.2	23	
07	8 E	26.7	25.3	24	22.9	30.2	31.9	32.3	33.4	35.5	36.1	36.8	38.2	38.7	38.9	38.5	33.2	26.1	26.6	25.7	29.5	28.9	27.2	30.4	31.2	38.9	23	
08	8 E	29.1	27.3	24.6	22.2	19.6	17.4	15.3	13.9	14.4	15	14.4	15.2	18.7	19	16	11.4	10.2	9	10.7	11.9	15.4	16.5	15.1	16.6	29.1	23	
09	8 E	13.8	13.3	13.7	16.4	17.1	16.9	17	19.3	20	20.1	19.5	21.3	26.1	21.3	13	8 E	8 E	12.5 P	8 E	15.7	17.8	20.4	20.8	16.9	26.1	21	
10	8 E	19	21.5	24.1	26.9	28.6	28.4	28.6	29.2	31.7	31	28.4	28.1	28.1	30.4	31.2	27.7	13.9	16.2	18.4	20	17	19	20.7	24.7	31.7	23	
11	8 E	14.3	13.7	14.8	11.5	9.4	8.9	12	20.7	24.9	30.3	35.3	36.1	35.4	34	32.3	31.5	28.3	25.6	28.1	26.5	28.9	23.8	15.2	23.5	36.1	23	
12	8 E	23.8	22.7	19.9	15.8	13.7	13.6	14.5	14.9	16.2	17.5	8 E	8 E	24.5	23.6	13.2	5	5.7	10.4	9.3	8.8	8.9	4	14.3	24.5	21		
13	8 E	4.1	4.7	5.6	4.5	4.6	3.5	2.6	6.9	10.1	12.2	18.3	33.7	36.9	34.7	32.2	31.9	33.1	28.1	32.1	33.6	30.7	30.1	32.1	20.3	36.9	23	
14	8 E	34.3	34.2	33	32.3	32.6	34.2	35.4	34	33.9	38.2	35.2	34.9	33	29.6	25.3	17.1	12.3	14.7	20.9	25.4	26.6	30.5	34.4	29.7	38.2	23	
15	8 E	33.7	33.3	32.7	33.3	34.4	35	35.7	37.2	38.4	39.1	39.2	39.2	39.1	39.5	39.7	39.6	38.7	38	38	37.1	37	36.4	35.8	37	39.7	23	
16	8 E	34.6	34	32.2	30	29.7	27.9	25.9	29.1	32.4	33.3	34	34.8	35.4	34.8	33.6	30.3	26.8	21.5	20.3	17.4	16.5	18.1	18.4	28.3	35.4	23	
17	8 E	18.8	19.6	16	15.9	9.6	7	5.6	12.2	23.6	23.5	26.1	29.1	29.4	31	28.6	32.6 P	8 E	8 E	8 E	32.6	30	30.8	33.6	22.8	33.6	20	
18	8 E	38.6	38.6	37.7	38.2	38.4	38.4	37.4	36.1	35.3	35.5	39.5	41.4	40	19.2	1.6	3.7	9.4	11.4	10.6	13.2	16.1	20.3	25.2	27.2	41.4	23	
19	8 E	29.2	29.2	29.1	28.7	27.8	27.2	26.1	27	27.4	27.7	27.3	27.8	29.3	29.5	28	21.9	9.3	14	23.8	21.2	20	18.5	18.9	24.7	29.5	23	
20	8 E	20.6	18.5	13.9	12	12	10.1	8.6	8.6	16.9	12.6	14.9	10	12.4	9.5	5.9	6.1	4.1	4.4	4.7	6	8	10	8.5	10.4	20.6	23	
21	8 E	14.9	16	17	23.2	30.2	28.9	29.8	31.1	28.4	28.1	31.5	29.6	29.8	8 E	8 E	8 E	8 E	8 E	8 E	8 E	8 E	8 E	33.4	33.5	27	33.5	15
22	8 E	33.4	33.2	34.2	36.7	36.7	34.9	32.7	32	34.1	34.7	36.3	37.4	38.6	39.1	38.1	32.9	22.7	17	23.9	18.9	17.8	19.1	20.7	30.7	39.1	23	
23	8 E	26	32.4	33	33	31.7	33.8	34.9	36	35.2	35.5	32.4	28.7	28	28.5	28.3	24.1	21.5	19.6	20.9	19.9	19.8	22.6	22.2	28.2	36	23	
24	8 E	17.9	16.6	15.9	14.5	9.6	5.2	8.8	10.6	20.7	27.6	30.3	31.8	33	33	32.5	27.8	30.9	32.2	29.3	28.5	28.5	26.7	21.2	23.2	33	23	
25	8 E	14.9	12.6	9.2	7.3	6.1	10.7	12.8	10	16.7	23	21.3	18.4	20.1	20.9	20.2	18.6	16.6	15.1	17.1	24.1	26.6	26	25.7	17.1	26.6	23	
26	8 E	24.3	25.3	26.3	26.6	26.6	26.8	26	25.7	26.6	27.5	28.6	8 E	8 E	26.5	27.8	27.6	27.6	27.5	27.6	27.8	27.7	28.1	27.6	27	28.6	21	
27	8 E	25.6	24.5	22.4	19.7	15.8	15.5	11.4	14.9	20	25.1	28.3	29.4	31.6	34.2	33.6	26.5	16.9	16.1	22.4	19.1	13.5	13.5	13.8	21.5	34.2	23	
28	8 E	12.3	14.3	14.5	14.4	15.2	13.6	12.5	13.2	16.6	24.8	28.5	26.7	26.4	25.5	23.5	21.5	20.8	21	19.7	15.3	15.3	12.8	10.2	18.2	28.5	23	
29	8 E	5.8	6.6	4.9	4.9	3.4	3.7	2.4	7.4	9.6	12.7	15.4	21.1	28.7	28.5	25.3	25.3	24.2	20.3	18.2	20.2	21.5	14.9	12.6	14.7	28.7	23	
30	8 E	12.5	13.6	13.3	13.7	11.2	7.9	8.3	10.3	14.8	15.5	24.2	26.6	28	26.1	23	21.6	21.5	21.6	22	22.2	23.2	23.8	25.3	18.7	28	23	
31	8 E	25.2	27.2	27.3	27	27	26.4	26.7	26.9	26.8	27.4	24.5	24	24.7	23.8	22.7	22.9	22.4	21.3	19	16.2	15.2	21.9	24.1	23.9	27.4	23	
Max	429.6	38.6	38.6	37.7	38.2	38.4	38.4	37.4	37.2	38.4	39.1	39.5	41.4	40	39.5	39.7	39.6	38.7	38	40.9	38.9	37.1	36.4	35.8	429.6	429.6	429.6	
Average	204.6	20.7	20.9	20.4	20	19.7	19.1	18.8	20.4	23	24.6	25.9	27	27.9	26.5	24.5	22.5	19.3	18.4	19.7	20.6	20.3	20.9	20.9	28.4	28.4	28.4	
Count	26	31	31	31	31	31	31	31	31	31	31	31	29	29	30	30	29	28	29	29	30	30	31	31	722	722	722	

# Quality Assurance / Analysis Reports

## Concentration Distribution Report

This report shows the number of readings that fall into user-defined concentration ranges. The user defines the concentration ranges for each parameter type in the Frequency/Concentration Report Editor.

Report Output

Current Date : 7/8/2009  
Current Time : 1:06 PM

Concentration Distribution Report

Parameter: OZONE Avg Interval: 001h Maximum Samples: 1374

Site	Samples	Min.	10	20	30	50	100	150	200	300	>500	Max.	Arith. Mean	Geo. Mean	Geo. Dev.
EastKnoxville	1374	0.0	655	0	15	229	475	0	0	0	0	89.0	28.8	1.3	50.1

## Frequency Distribution Report

A companion to the Concentration Distribution report, this reports shows the concentration values that correspond to user-defined percentiles (e.g., 95<sup>th</sup> percentile, etc). The user can define frequency breakpoints for each parameter type.

Report Criteria

Report Output

Current Date : 3/1/2010  
Current Time : 10:41 AM

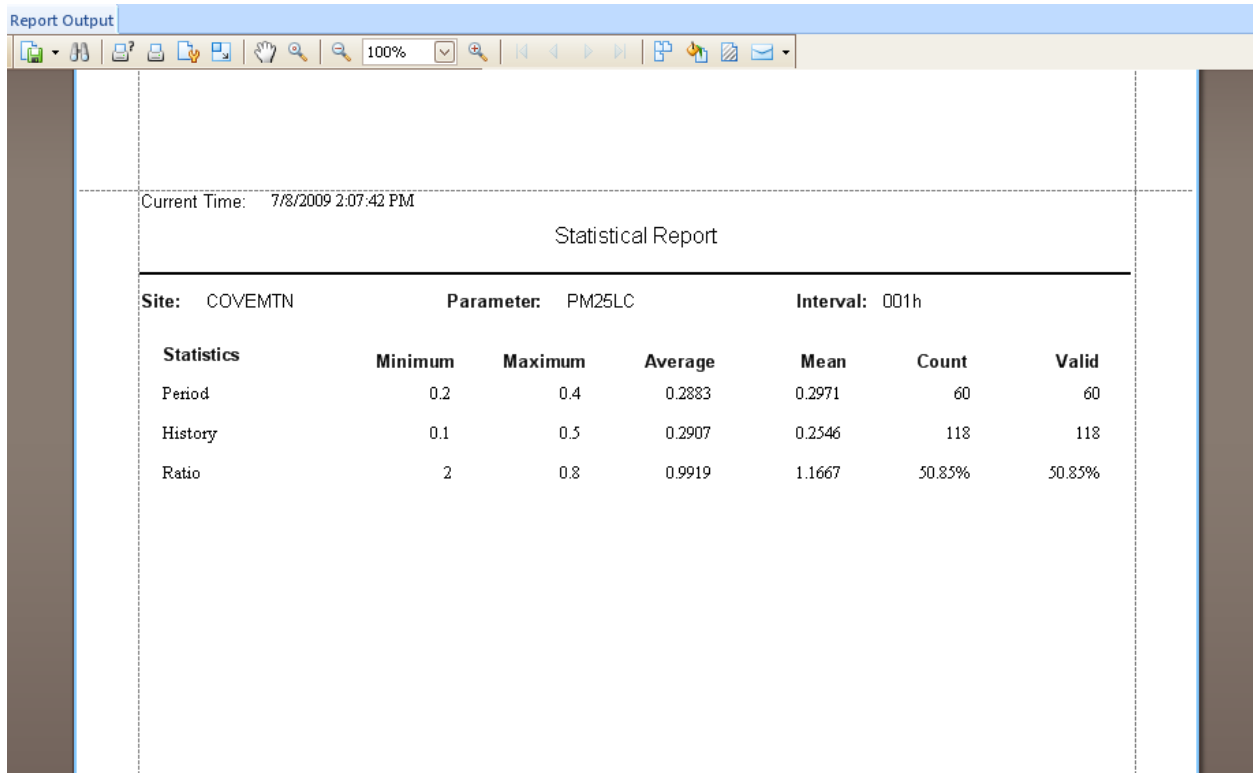
Frequency Distribution Report

Avg Interval: 001h Maximum Samples: 757

Site - Parameter	Samples	Min.	10	20	30	40	50	75	90	95	99	Max.	Arith. Mean	Geo. Mean	Geo. Dev.
Blount_S-01_OZONE	722	0.0	7.7	12.6	15.8	19.1	22.4	29.6	35.2	38.4	403	429.6	28.3	18.9	2.4
Union-01_OZONE	705	0.0	18	23	25	28	30	35	38	40	44	47.0	29.0	27.0	1.0

## Statistical Report

This report provides statistics for any defined time range, as well as a comparison against previous years of the same parameter and date/time range, with calculated ratios. This report is similar to the Statistical functions in the Data Editor and used to identify outliers.



Report Output

Current Time: 7/8/2009 2:07:42 PM

Statistical Report

Site: COVEMTN      Parameter: PM25LC      Interval: 001h

Statistics	Minimum	Maximum	Average	Mean	Count	Valid
Period	0.2	0.4	0.2883	0.2971	60	60
History	0.1	0.5	0.2907	0.2546	118	118
Ratio	2	0.8	0.9919	1.1667	50.85%	50.85%

## Logbook Report

This report provides a summary of logbook entries made by the users and operators.

The screenshot shows a software window titled "LogBook Report". It is divided into two main sections: "Report Criteria" and "Report Output".

**Report Criteria:**

- Date Range:** Start Date: 06/02/2010 00:00, End Date: 06/02/2010 23:59.
- Site Selection:** A table with columns "Site Name" and "Site Description". The "Agilaire" site is selected and highlighted in orange.

**Report Output:**

Current Date : 6/2/2010  
Current Time : 1:24 PM

Logbook Report  
Agilaire  
02-Jun-2010 00:00 to 03-Jun-2010 00:00

<u>Category</u>	<u>User Name</u>	<u>Entry Time</u>	<u>Entry</u>
Repair	AirVision	6/2/2010 10:59:00 AM	testing
Other	AirVision	6/2/2010 11:06:03 AM	test2
RoutineCheck	AirVision	6/2/2010 12:21:17 PM	test3

Page 1 of 1 | Zoom Factor: 100%

# Data Logger Reports

## Power Failure Report

This report shows the starting and ending time of a power failure detected by the logger.

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### *Logger Power Failure Report*

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*Site Name* Blount\_S

*Site Description*

*Logger Name* 12\_30

*Logger Identifier* 30

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*Failure Time*

*Restored Time*

1/25/2010 11:36:32 AM	1/25/2010 11:36:45 AM
1/25/2010 11:38:05 AM	1/25/2010 11:38:27 AM
1/25/2010 11:52:06 AM	1/25/2010 11:52:17 AM
1/25/2010 12:33:51 PM	1/25/2010 12:34:07 PM
1/28/2010 10:09:03 AM	1/28/2010 10:09:19 AM
1/28/2010 10:27:25 AM	1/28/2010 10:27:35 AM

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Monday, March 01, 2010

Page 1 of 1

## Input Status Line Change Report

This report shows the time and state of a status input line change detected by the logger.

### Input Line Report

Site Name Blount\_S

Logger Name 12\_30

Logger Identifier 30

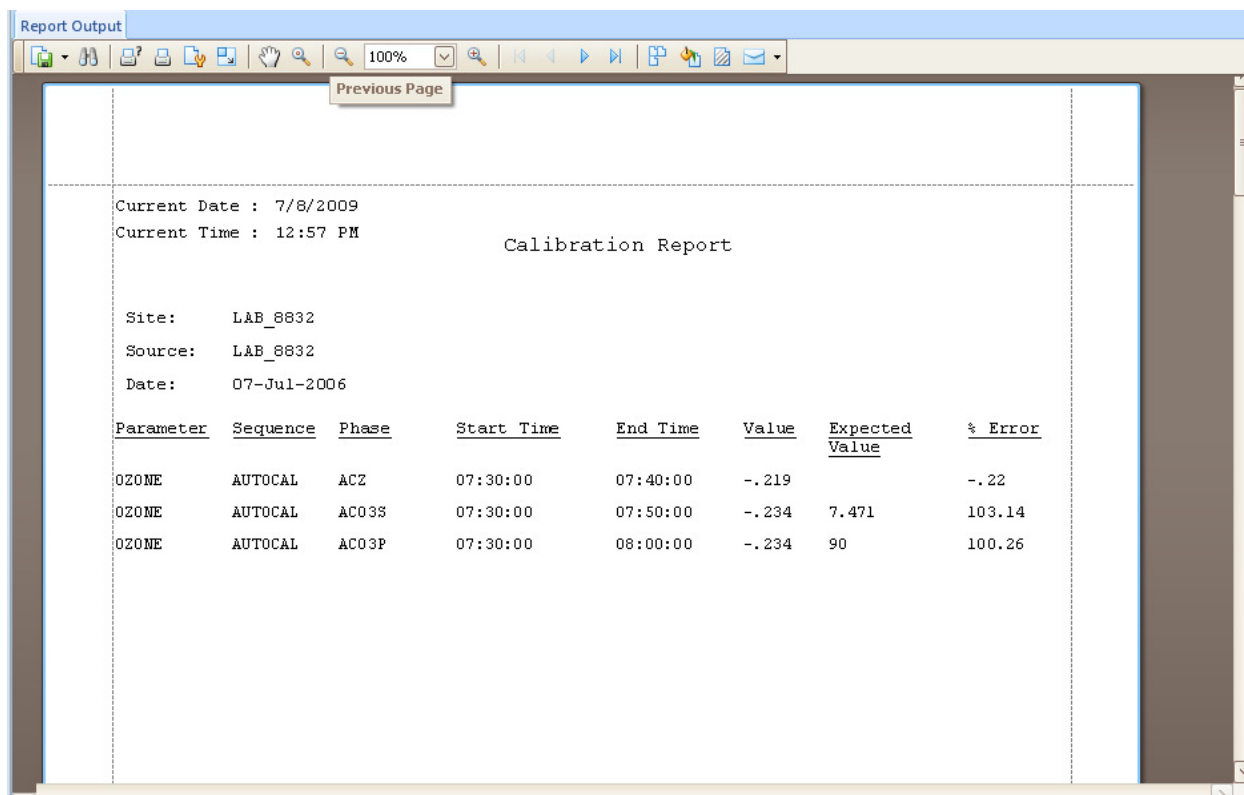
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Line Number	Line Name	Line State	Time Of Change	Line Description
33	NOX FAULT	<input checked="" type="checkbox"/>	2/1/2010 11:06:10 AM	
33	NOX FAULT	<input type="checkbox"/>	2/1/2010 11:06:11 AM	
34	INTRUSION	<input checked="" type="checkbox"/>	3/1/2010 11:06:12 AM	
36	SO2 FAULT	<input checked="" type="checkbox"/>	3/1/2010 11:06:12 AM	
36	SO2 FAULT	<input type="checkbox"/>	3/1/2010 11:06:13 AM	
37	SO2 IN MAINT	<input checked="" type="checkbox"/>	3/1/2010 11:06:13 AM	
34	INTRUSION	<input type="checkbox"/>	3/1/2010 11:06:14 AM	



## Calibration Report

This report shows the calibration event and results for any zero/span or precision check.



Report Output

100%

Previous Page

Current Date : 7/8/2009  
Current Time : 12:57 PM

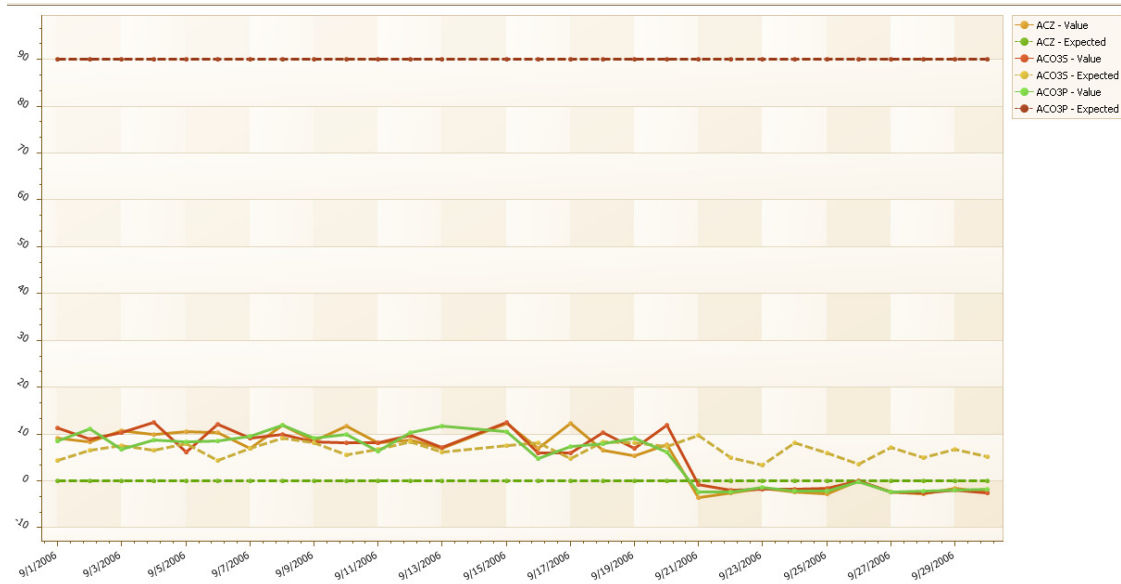
Calibration Report

Site: LAB\_8832  
Source: LAB\_8832  
Date: 07-Jul-2006

<u>Parameter</u>	<u>Sequence</u>	<u>Phase</u>	<u>Start Time</u>	<u>End Time</u>	<u>Value</u>	<u>Expected Value</u>	<u>% Error</u>
OZONE	AUTOCAL	ACZ	07:30:00	07:40:00	-.219		-.22
OZONE	AUTOCAL	AC03S	07:30:00	07:50:00	-.234	7.471	103.14
OZONE	AUTOCAL	AC03P	07:30:00	08:00:00	-.234	90	100.26

## Cal Trend Graph

This graph provides a long-term view of calibration zero/span results over a user-defined period of time (month, quarter, etc).



## Calibration Response Graph

This graph combines calibration records with 1-minute data records to create a graph of the analyzer response over a single calibration. The back/next button can be used to quickly cycle through several days in a single query.

