AV-Trend Sample Reports

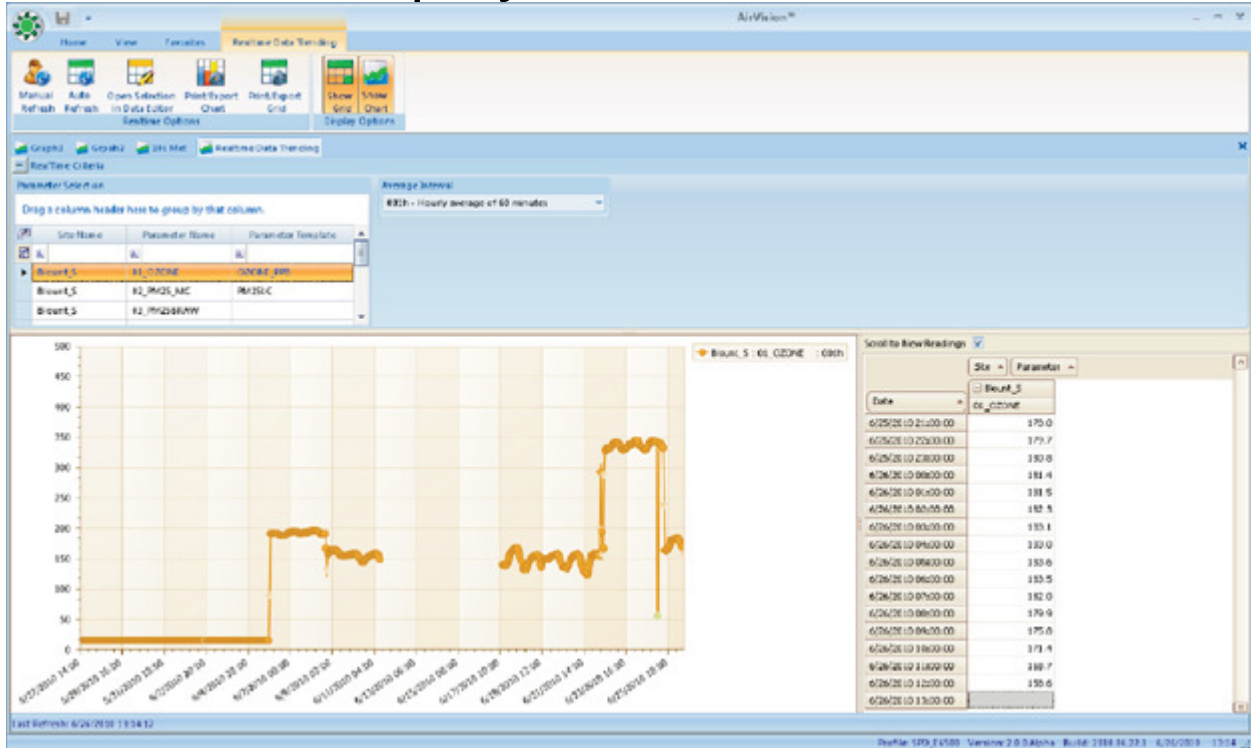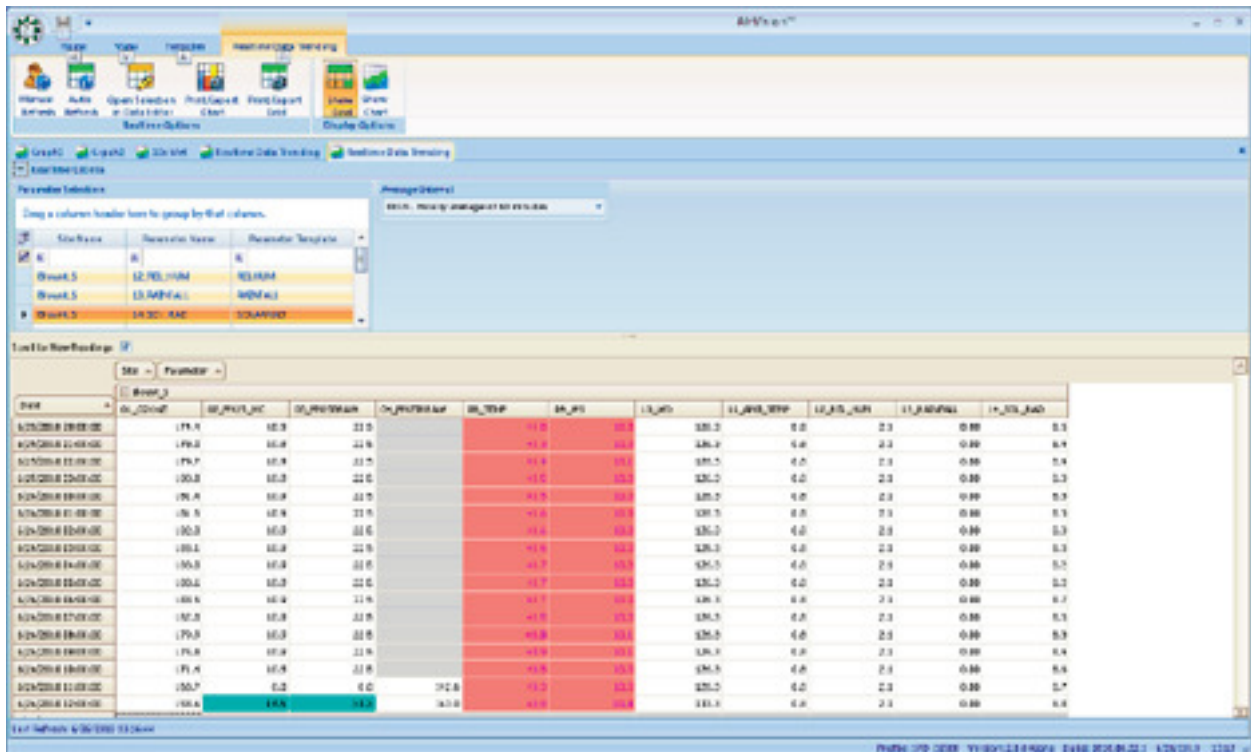**March, 2011**

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	53.458	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	150	5.9
Count	24	24	24	24

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		Monthly Report		Avg Interval:	1 hour
Site Name:	Blount_S			January 2006		Units:	PPB
Parameter:	01_OZONE						

Hours

Day	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	04.615	18.4	17.2	18.7	18.2	16.5	14.4	13.6	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	.6 E	114.2	429.6	49
02	<	.9	1.6	.6	.6	.6 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	<	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	<	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	<	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	.6 E	.6 E	.6 E	.6 E	.6 E	4.1	9.3	10.9	24.2	23
06	<	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	<	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	<	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	<	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	<	<	12.3 P	0 E	15.7	17.8	20.4	20.8	16.9	26.1	21
10	<	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	<	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	<	23.8	22.7	19.9	15.8	13.7	13.7	13.6	14.5	14.9	16.2	17.5	<	<	24.5	23.6	13.2	5	5.7	10.4	9.3	8.8	8.9	4	14.3	24.5	21
13	<	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	<	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	<	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	<	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	<	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	<	<	<	32.6	30	30.8	33.6	22.8	33.6	20
18	<	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	<	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	<	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	<	14.9	16	17	23.2	30.2	28.9	29.8	31.1	28.4	28.1	31.5	29.6	29.8	<	<	<	<	<	<	<	<	33.4	33.5	27	33.5	15
22	<	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	<	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	<	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	<	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	<	24.3	25.3	26.3	26.6	26.6	26.8	26	25.7	26.6	27.5	28.6	<	<	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	<	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	<	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	<	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	<	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	<	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., 95th 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
```
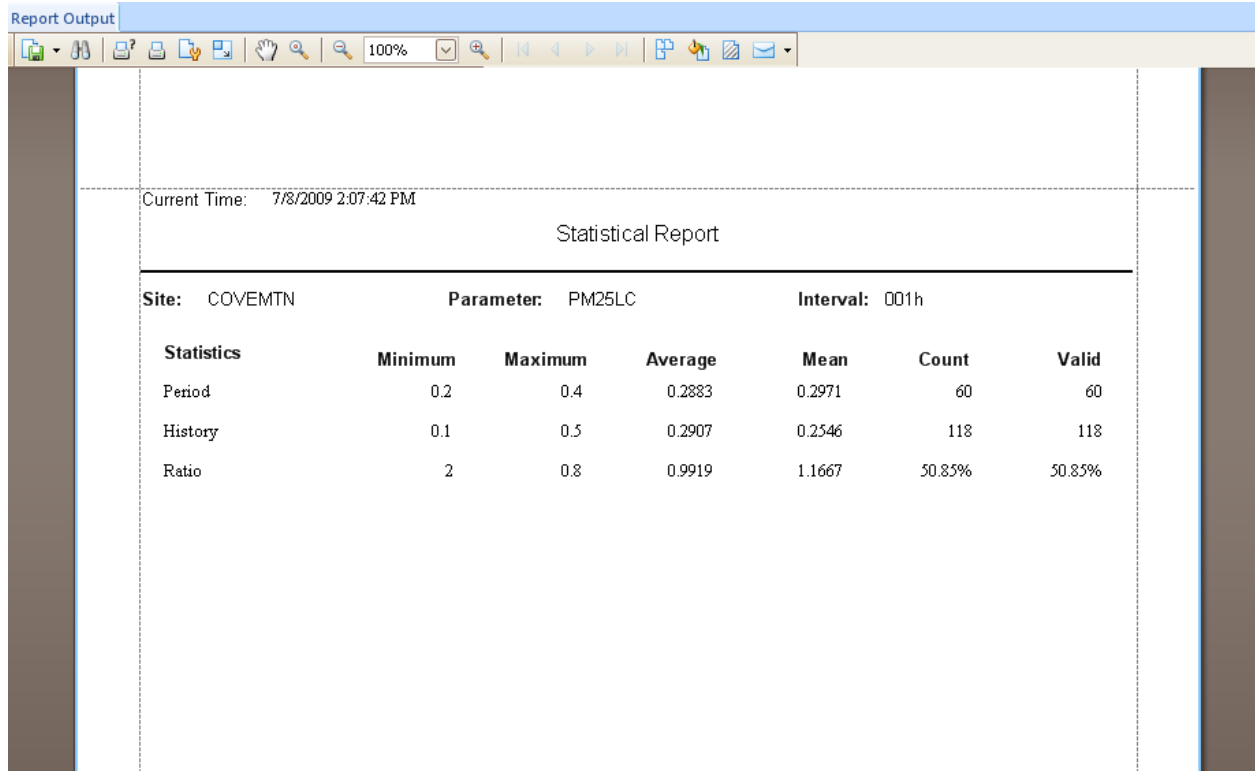
Site - Parameter	Samples	Min.	10	20	30	40	50	75	90	95	99	Max.	Arith. Mean	Geo. Mean	Geo. Dev.
Blount_S-01_OZONE	722	0.0	7.7	12.6	15.8	19.1	22.4	29.6	35.2	38.4	403	429.6	28.3	18.9	2.4
Union-01_OZONE	705	0.0	18	23	25	28	30	35	38	40	44	47.0	29.0	27.0	1.0

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.

Data Logger Reports

Power Failure Report

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

Logger Power Failure Report

Site Name Blount_S   Site Description

Logger Name 12_30   Logger Identifier 30

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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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
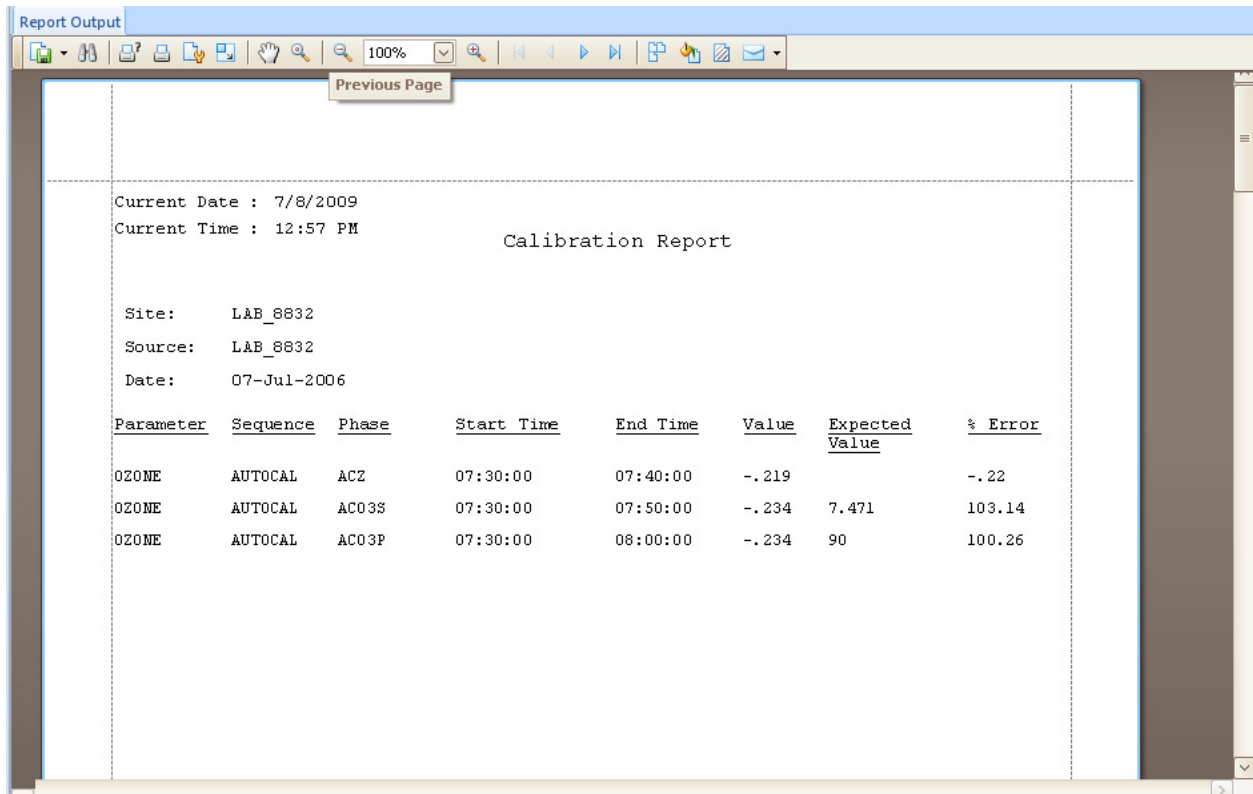
Logger Name 12_30   Logger Identifier 30

Line Number	Line Name	Line State	Time Of Change	Line Description
33	NOX FAULT	☑	2/1/2010 11:06:10 AM	
33	NOX FAULT	☐	2/1/2010 11:06:11 AM	
34	INTRUSION	☑	3/1/2010 11:06:12 AM	
36	SO2 FAULT	☑	3/1/2010 11:06:12 AM	
36	SO2 FAULT	☐	3/1/2010 11:06:13 AM	
37	SO2 IN MAINT	☑	3/1/2010 11:06:13 AM	
34	INTRUSION	☐	3/1/2010 11:06:14 AM	

Calibration Report

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

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).
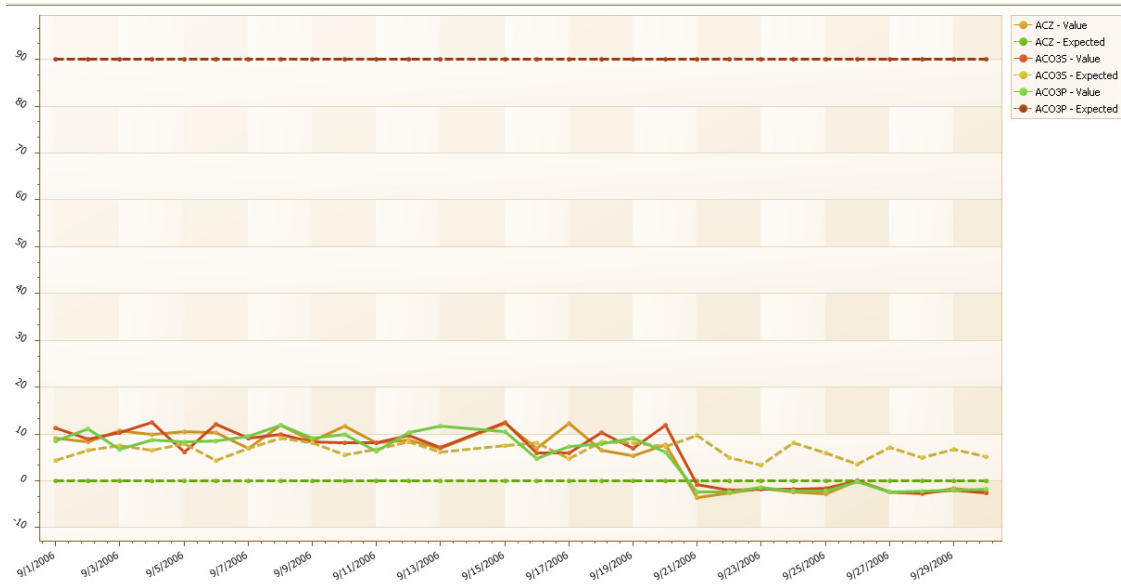
Calibration Response Graph

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.