

Test Group Summary Report

C36 Volatile Organic Compounds in Soil

January 2021 PT Round (Shipped in March)

Issued: April 23, 2021

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1.0 The Proficiency Testing Report

The Proficiency Testing Report consists of two parts.

- *PTC Proficiency Testing Report*: This report contains participant-specific data and other confidential information. This report is emailed to participants at the end of the PT round.
- *Test Group Summary Report*: A Test Group Summary Report is created for each quantified test group at the end of the PT round. These reports contain more detailed information on the round than are found in the participant-specific PTC Proficiency Testing Report. These reports do not contain any confidential information and are made available on the PTC web site.

2.0 Definitions

The participant-specific PTC Proficiency Testing Report contains some terms that new participants may not be familiar with.

<i>Code:</i>	The registration code that is unique to each analyte that a participant is registered for.
<i>App:</i>	If a participant is accredited by CALA, this three-digit number is the appendix number that the accredited method is assigned to.
<i>N:</i>	The number of participants results that were used to calculate the summary statistics. This excludes qualified data (e.g., <) and any results that were flagged as outliers.
<i>Assigned:</i>	The Assigned Value is the robust mean of the reported results, outliers excluded. This is often referred to as the “target” value.
<i>±U:</i>	The uncertainty of the assigned value.
<i>Reported:</i>	The result reported by the participant.
<i>s:</i>	The Standard Deviation of Proficiency Assessment (SDPA). This value is used to determine the acceptance limits for the PT evaluation.
<i>z-Score:</i>	A value assigned to each reported result that is a measure of the degree to which it deviates from the Assigned Value.
<i>Score:</i>	The composite score of the four results reported for each analyte. It is normalized to a score out of 100.
<i>Bias:</i>	A flag assigned if bias is detected using the re-scaled z-score procedure.

3.0 Scoring System

Participant performance is evaluated for each proficiency testing sample by a quantitative method that is consistent with ISO/IEC 17043:2010 *Conformity assessment – General requirements for proficiency testing*, the *International Harmonized Protocol for Proficiency Testing of (Chemical) Analytical Laboratories* (2006), and ISO 13528:2015 *Statistical methods for use in proficiency testing by interlaboratory comparisons*.

The following is a brief description of the evaluation procedure used by PTC. The detailed evaluation procedure is described in PROC09 – PT Evaluation *Procedure*, which is available on the PTC website www.PTCCanada.org).

3.1 HOMOGENEITY AND STABILITY ASSESSMENT

Homogeneity and stability are assessed using participant data. Regression analysis is performed on reported result against order of sample production (Homogeneity) and reported result against date of analysis (Stability). If the slope is significantly different than zero for either then the Standard Deviation of Proficiency Assessment (s) is increased to minimize the impact.

3.2 THE Z SCORE

A "z-score" is calculated for each reported result as follows:

$$z - Score = \frac{(x - \bar{X})}{SDPA} \quad \text{where: } \begin{array}{l} x = \text{participant result;} \\ \bar{X} = \text{the Assigned Value;} \\ SDPA = \text{the Standard Deviation for Proficiency Assessment.} \end{array}$$

The assigned value \bar{X} is generally estimated from the inter-laboratory Robust mean after outliers due to obvious gross errors (e.g., reported in wrong units) have been removed.

The Standard Deviation for Proficiency Assessment, s, is determined as follows:

- The inter-laboratory Robust standard deviation ($Stdev_{rob}$) is calculated using reported results, obvious outliers removed;
- The regression equation standard deviation ($Stdev_{reg}$) is estimated from regression equations derived from previous studies (see PROC11- *PT Regression Equations* for details);
- The SDPA is the higher of $Stdev_{rob}$ and $Stdev_{reg}$;
- When a laboratory reports its detection limit, s will be estimated using a pooled variance procedure that uses both the inter-laboratory data and the reported detection limit.

3.2 COMPOSITE (PT) SCORE

Since each PT round involves four or two separate samples of distinct concentration for each test, it is necessary to calculate a composite PT score for each test to determine overall performance. The composite score is calculated by first averaging the absolute z-scores for the four results and then calculating a final score as $100 + (-15 \times \text{avg } |z|)$.

Acceptable PT Scores equal or exceed 70.

3.3 IDENTIFYING BIAS

The proficiency testing report provides flags for bias. These are determined using the re-scaled z-score procedure.

$$RSZ = \frac{\sum z}{\sqrt{N}}$$

where z= the z- score
N = the number of samples

Flags are assigned for each test group/parameter combination as follows:

$RSZ \geq -2$ and ≤ 2	no flag assigned
$RSZ > 2$	H (High)
$RSZ > 3$	VH (Very High)
$RSZ < -2$	L (LOW)
$RSZ < -3$	VL (Very Low)

3.4 DEVIATIONS FROM EVALUATION PROCEDURE

Other than changes to the Standard Deviation of Proficiency Assessment due to homogeneity or stability flags, any deviation from the published evaluation procedure is described on the cover page(s) of the final *PTC Proficiency Testing Report*.

4.0 PT Round Specific Data Summary

The following pages provide more detailed information about the PT round indicated in the cover page of this report than is found in the participant-specific PTC Proficiency Testing Report. The graphical representations and the statistical summaries are based upon the data after outliers have been removed.

4.1 SUMMARY STATISTICS

In addition to some of the statistics found in the customer reports, this table includes additional summary statistics such as Median, different measures of dispersion, the number of outliers removed, the number of results in the Questionable range ($|z|$ between 2 and 3) and the Unacceptable range ($z > 3$), and whether a data set was flagged for Homogeneity or Stability. This section also includes sorted scatter plots of the data for each sample.

4.2 z - SCORE PLOTS

The z-scores for each sample are ranked in increasing order and plotted. When the data is normally distributed, the plot should show a slight sigmoidal curve, with an equal number of points above zero as below. Each bar in these plots is colour-coded to indicate the analytical method used by the participant.

4.3 KERNEL DENSITY PLOTS

Kernel density plots are generated for each data set. These plots are a graphical way to represent the overall data distribution and are used to visualize possible deviations from normality and unimodality.

4.4 STABILITY AND HOMOGENEITY PLOTS

Plots of reported result against analysis date, and reported result against order of bottling are displayed, along with the regression line. These regression analyses are used to determine if the SDPA should be adjusted due to homogeneity or stability.

1,1,1-TRICHLOROETHANE

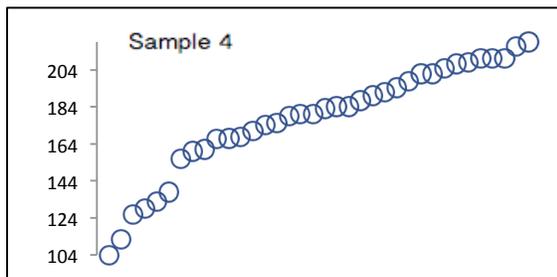
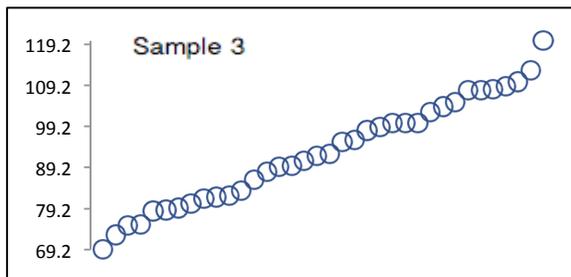
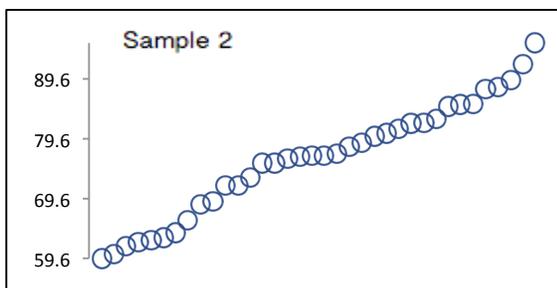
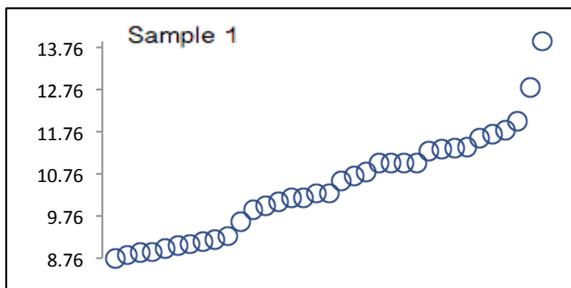
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	35	36	36	36
Median	10.3	76.7	92.3	182
Robust Mean	10.4	76.1	92.8	179
U	0.26	2.21	2.96	6.06
Robust Standard Deviation	1.23	10.6	14.2	29.1
Regression Standard Deviation	2.34	17.1	20.9	40.3
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA)	2.34	17.1	20.9	40.3
Outliers	1	0	0	0
z >3.0	0	0	0	0
2< z <3	0	0	0	0

Methods Used

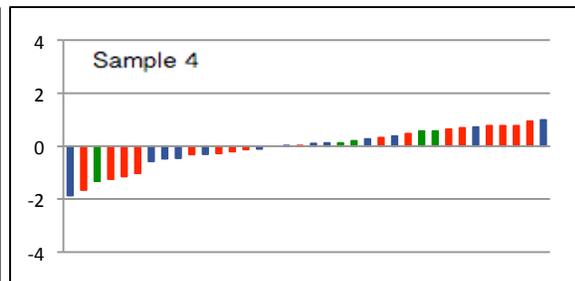
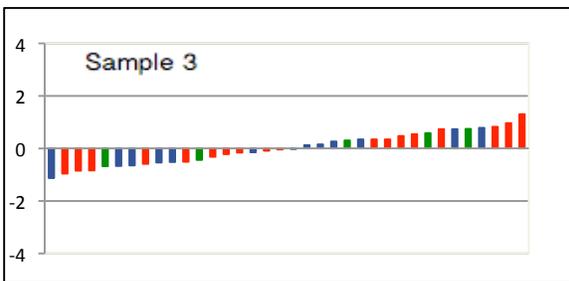
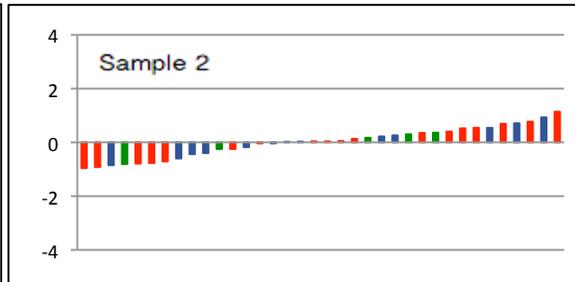
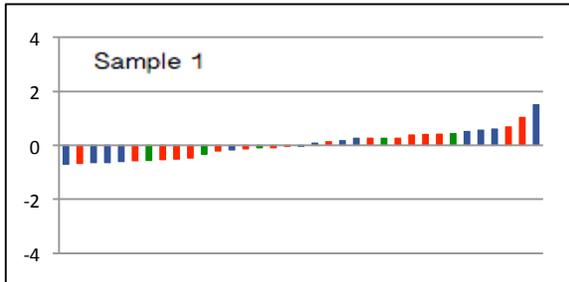
Method	C36-1	C36-2	C36-3	C36-4
HS-GCMS	13	13	13	13
P/T-GCMS	17	18	18	18
GC/MSE	5	5	5	5

All summary stats and the plots below are based on the data excluding any flagged outliers

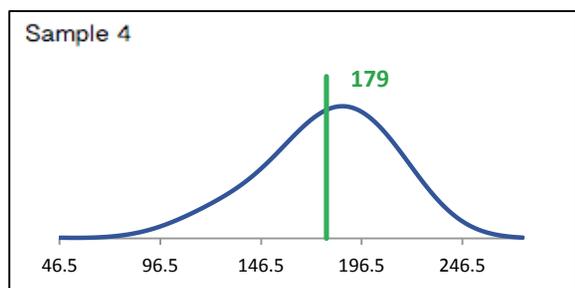
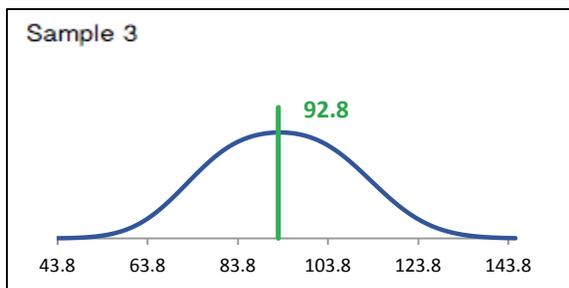
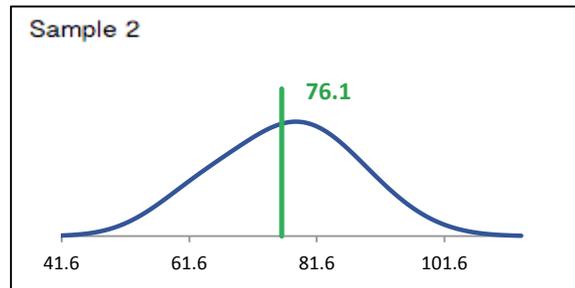
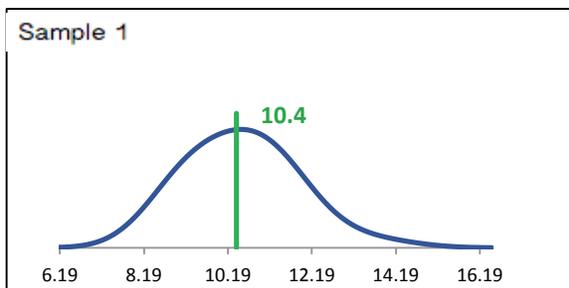


1,1,1-TRICHLOROETHANE

z-Score Plots

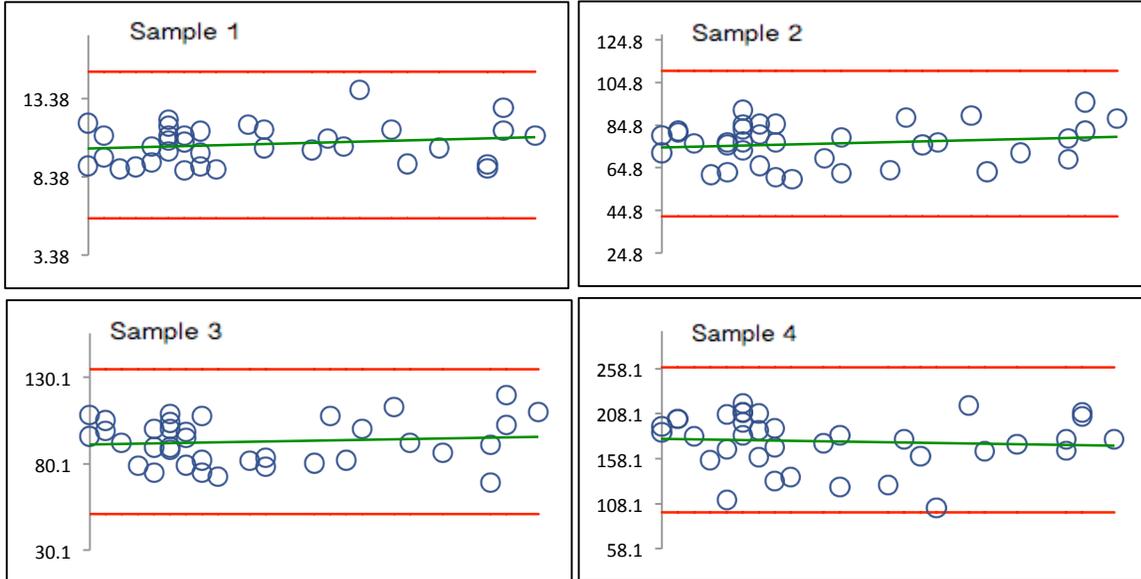


Kernel Density Plots



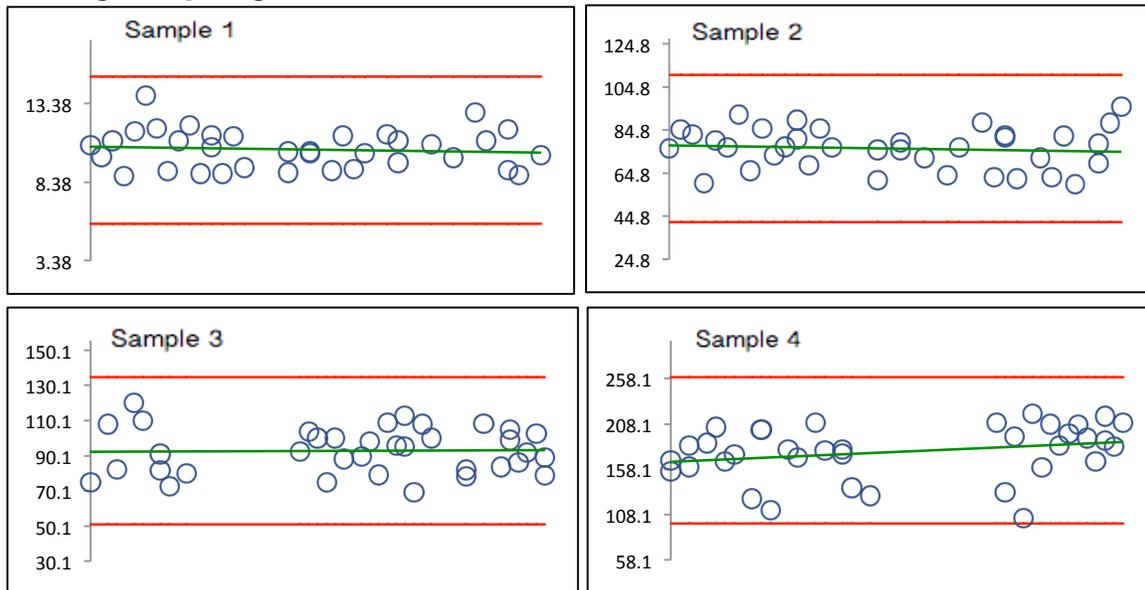
1,1,1-TRICHLOROETHANE

Stability Regression



Reported results (Y-axis) plotted against reported analysis date (X-axis)

Homogeneity Regression



Reported results (Y-axis) plotted against bottling order (X-axis).

1,1,2,2-TETRACHLOROETHANE

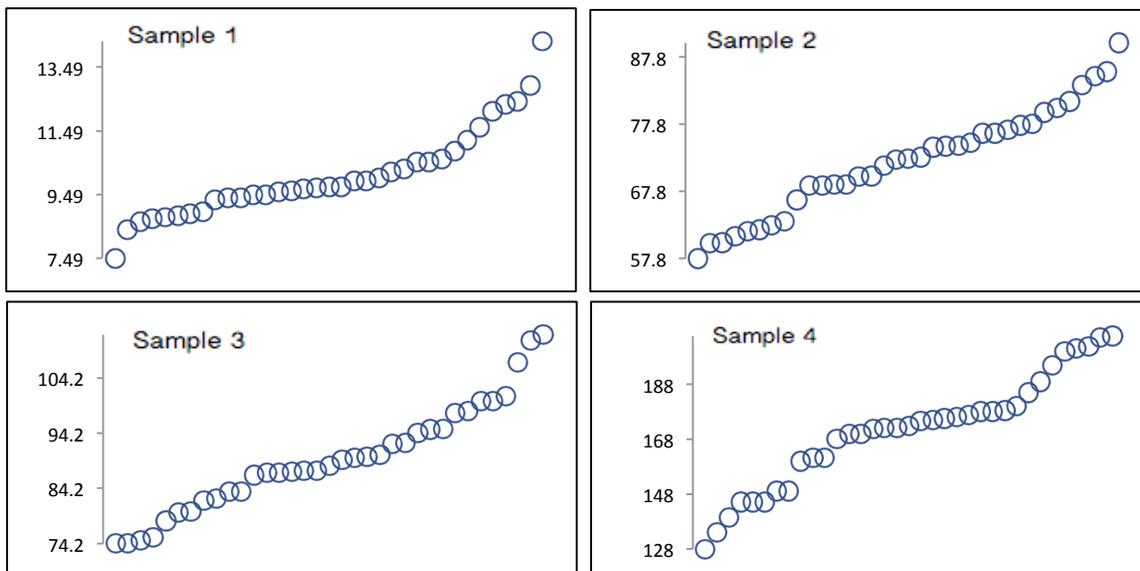
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	35	35	35	35
Median	9.71	72.7	88.2	173
Robust Mean	10.0	72.1	89.0	171
U	0.26	1.86	2.10	4.65
Robust Standard Deviation	1.21	8.8	10.0	22.0
Regression Standard Deviation	1.74	12.6	15.6	30.0
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA)	1.74	12.6	15.6	30.0
Outliers	0	0	0	0
z >3.0	0	0	0	0
2< z <3	1	0	0	0

Methods Used

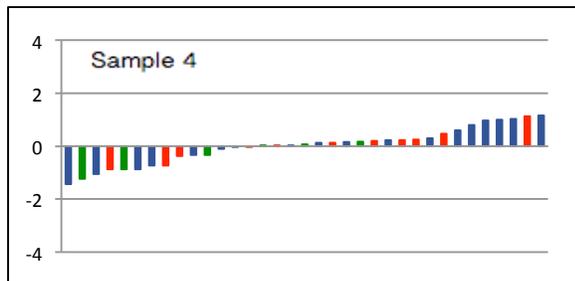
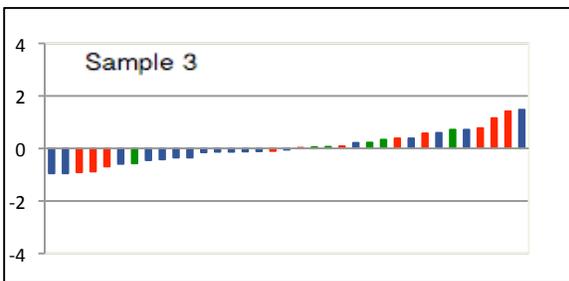
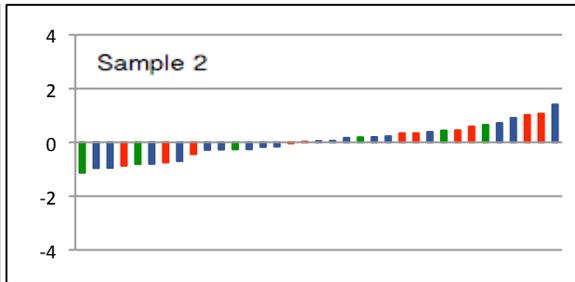
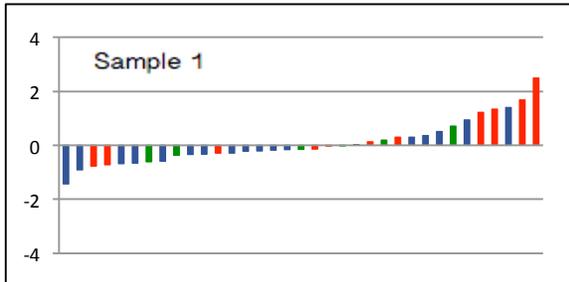
Method	C36-1	C36-2	C36-3	C36-4
P/T-GCMS	18	18	18	18
HS-GCMS	11	11	11	11
GC/MSE	6	6	6	6

All summary stats and the plots below are based on the data excluding any flagged outliers

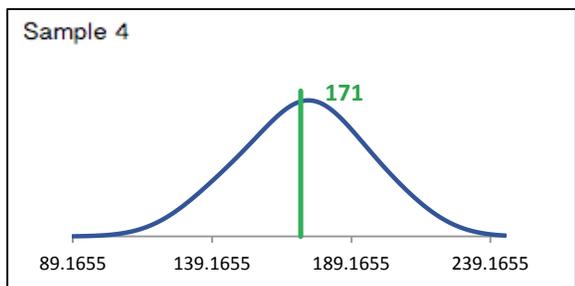
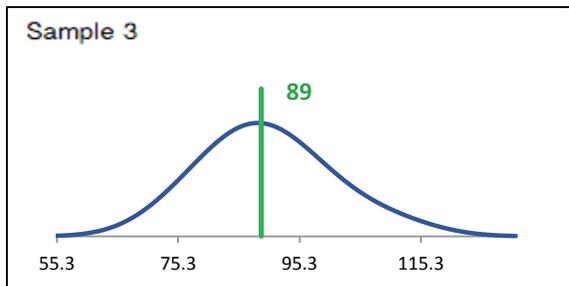
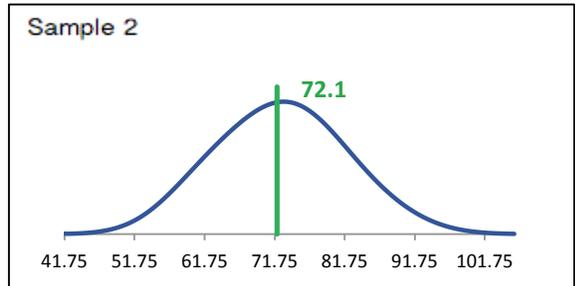
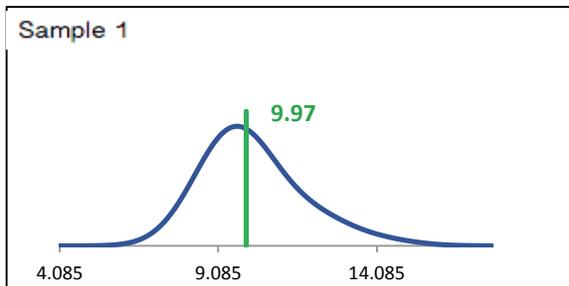


1,1,2,2-TETRACHLOROETHANE

z-Score Plots

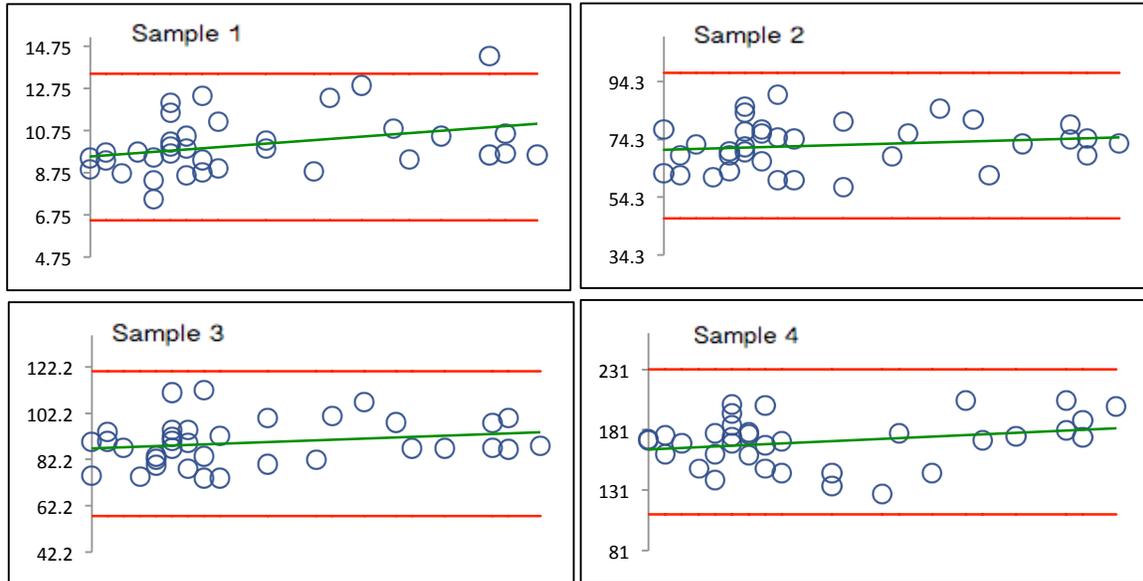


Kernel Density Plots



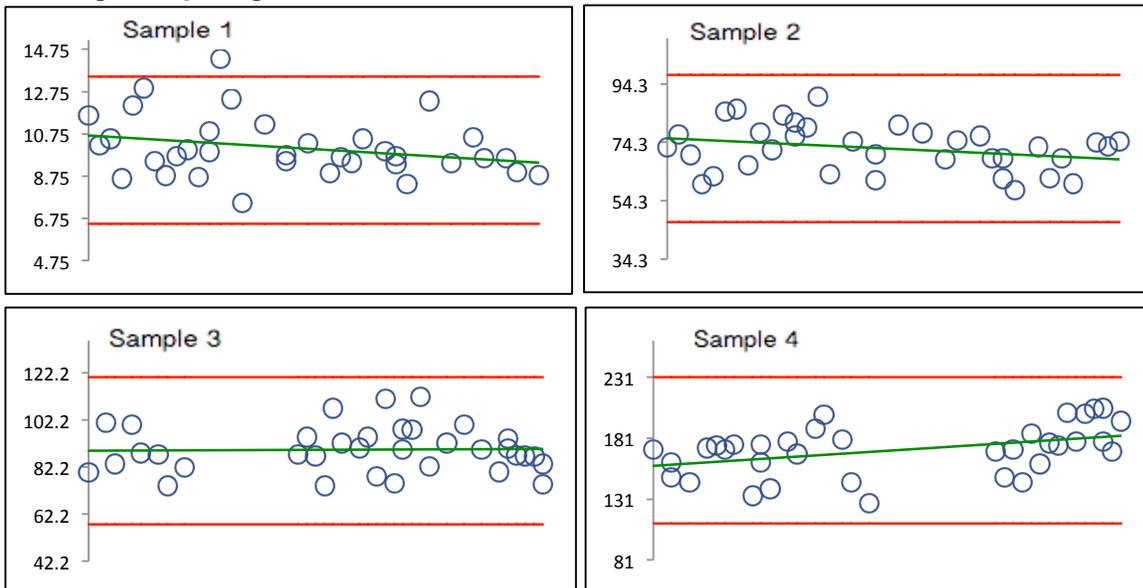
1,1,2,2-TETRACHLOROETHANE

Stability Regression



Reported results (Y-axis) plotted against reported analysis date (X-axis)

Homogeneity Regression



Reported results (Y-axis) plotted against bottling order (X-axis).

1,1,2-TRICHLOROETHANE

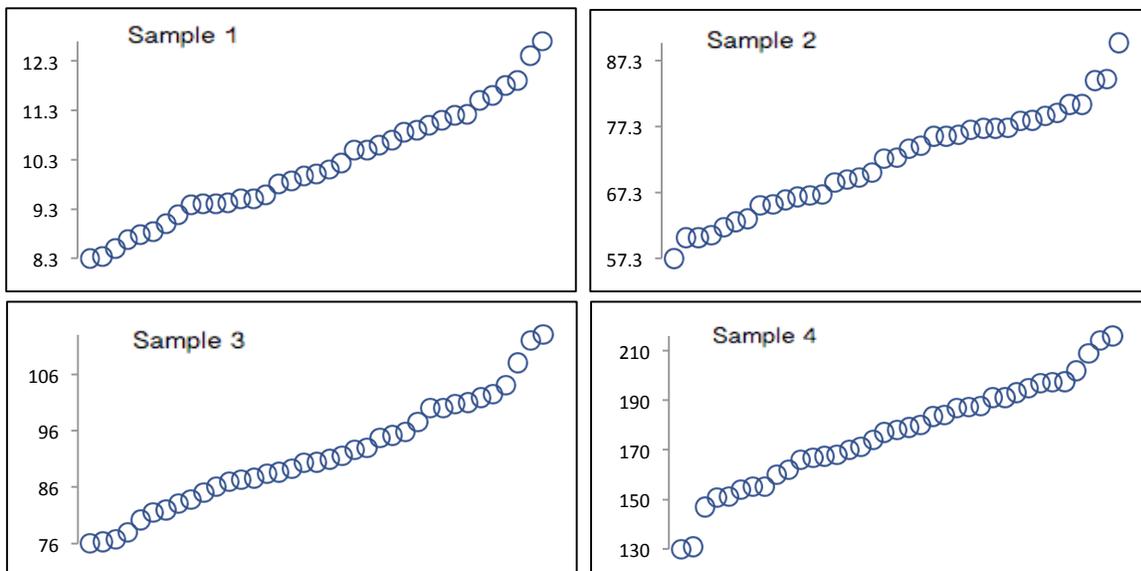
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	37	37	37	37
Median	10.0	72.6	90.4	178
Robust Mean	10.1	72.0	91.3	177
U	0.26	1.73	2.12	4.48
Robust Standard Deviation	1.24	8.4	10.3	21.8
Regression Standard Deviation	1.77	12.6	16.0	30.9
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA)	1.77	12.6	16.0	30.9
Outliers	0	0	0	0
z >3.0	0	0	0	0
2< z <3	0	0	0	0

Methods Used

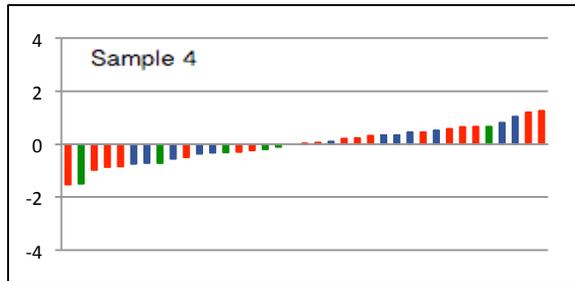
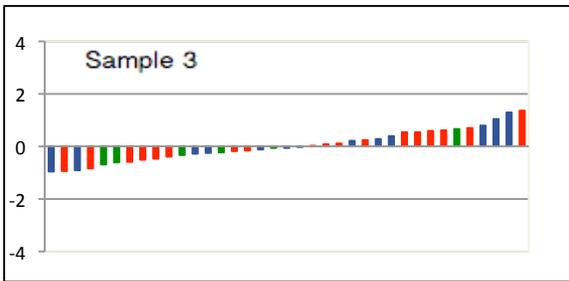
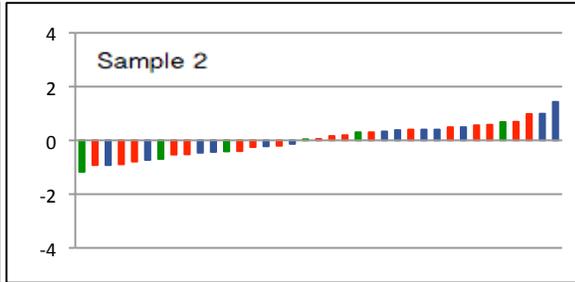
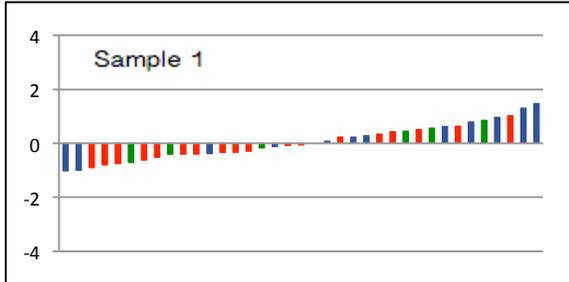
Method	C36-1	C36-2	C36-3	C36-4
HS-GCMS	13	13	13	13
P/T-GCMS	18	18	18	18
GC/MSE	6	6	6	6

All summary stats and the plots below are based on the data excluding any flagged outliers

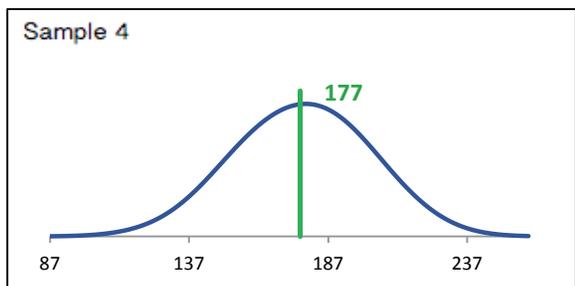
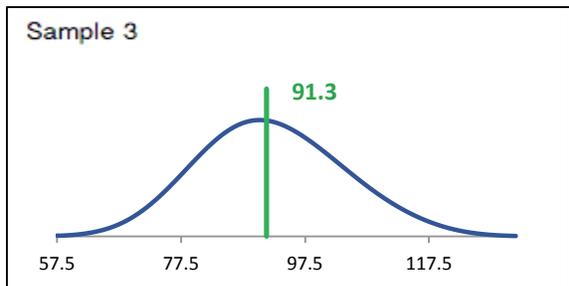
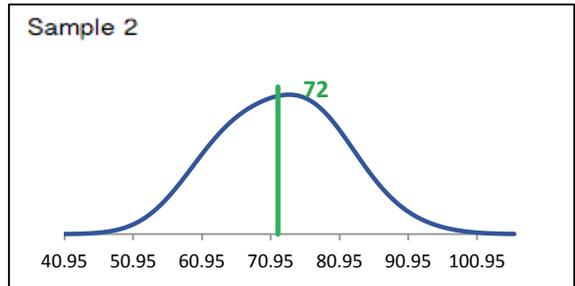
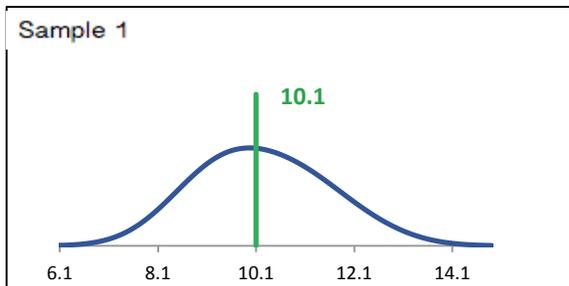


1,1,2-TRICHLOROETHANE

z-Score Plots

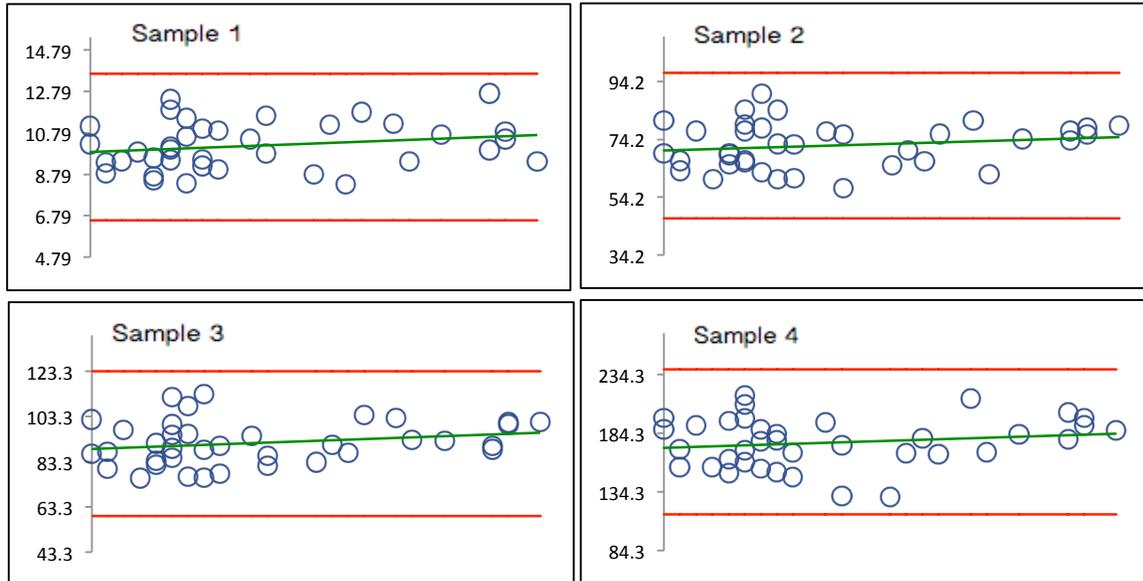


Kernel Density Plots



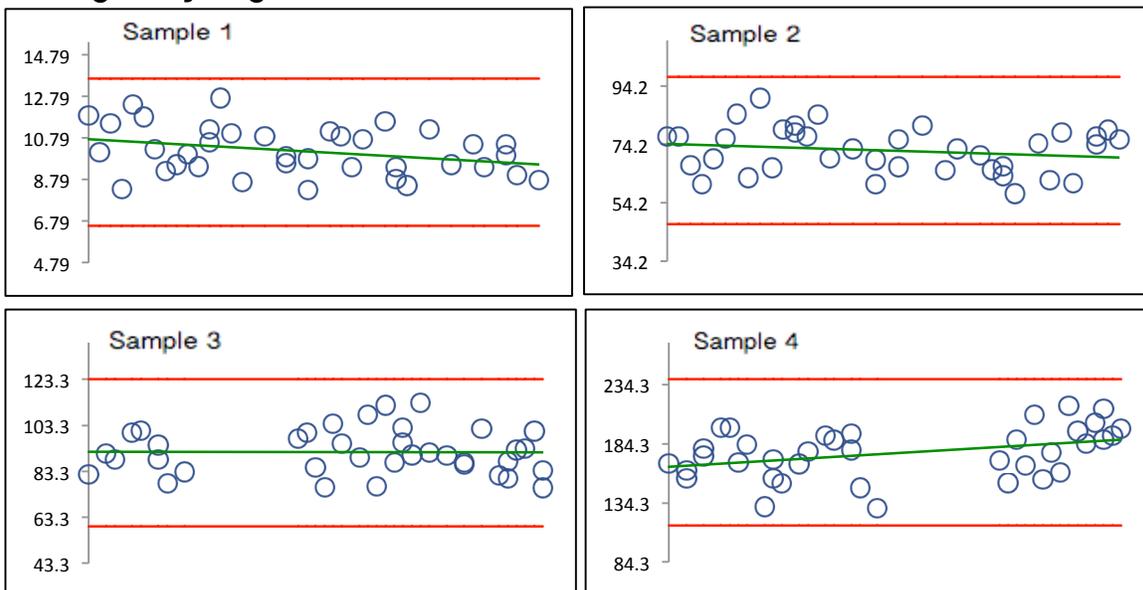
1,1,2-TRICHLOROETHANE

Stability Regression



Reported results (Y-axis) plotted against reported analysis date (X-axis)

Homogeneity Regression



Reported results (Y-axis) plotted against bottling order (X-axis).

1,1-DICHLOROETHANE

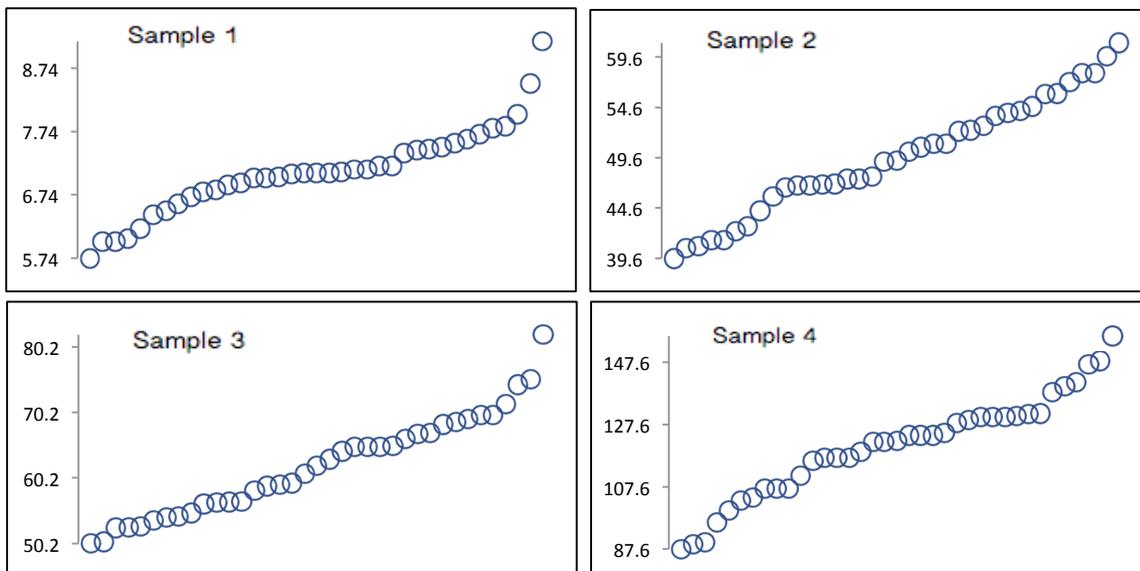
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	37	37	37	37
Median	7.09	49.3	62.0	122
Robust Mean	7.08	49.6	61.8	121
U	0.13	1.32	1.65	3.47
Robust Standard Deviation	0.618	6.43	8.04	16.9
Regression Standard Deviation	1.42	9.92	12.4	24.1
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA)	1.42	9.92	12.4	24.1
Outliers	0	0	0	0
z >3.0	0	0	0	0
2< z <3	0	0	0	0

Methods Used

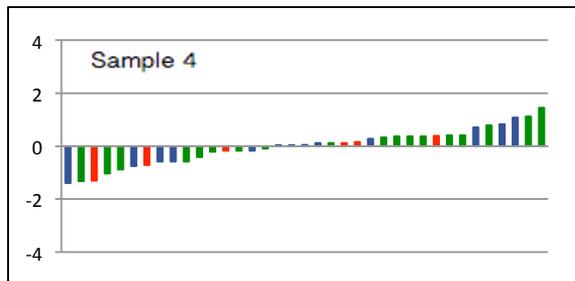
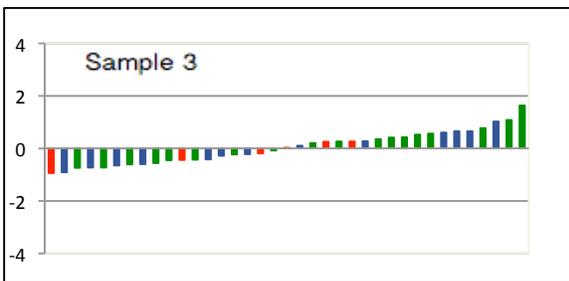
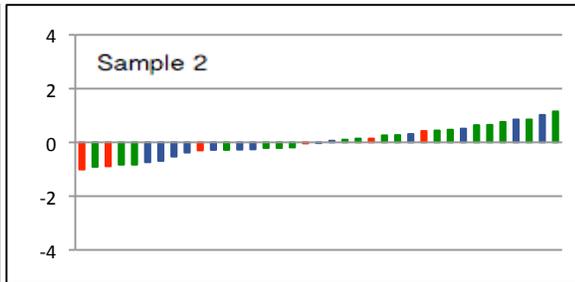
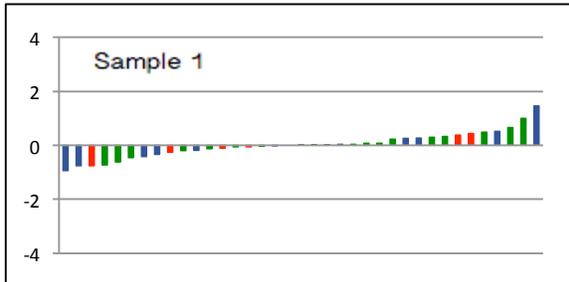
Method	C36-1	C36-2	C36-3	C36-4
HS-GCMS	13	13	13	13
GC/MSE	6	6	6	6
P/T-GCMS	18	18	18	18

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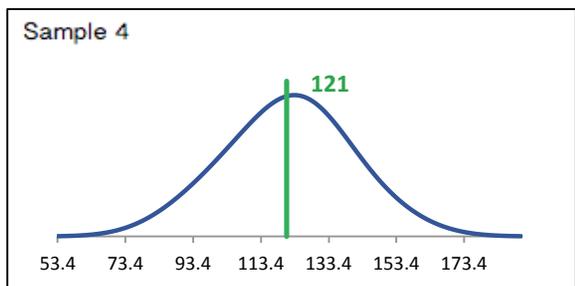
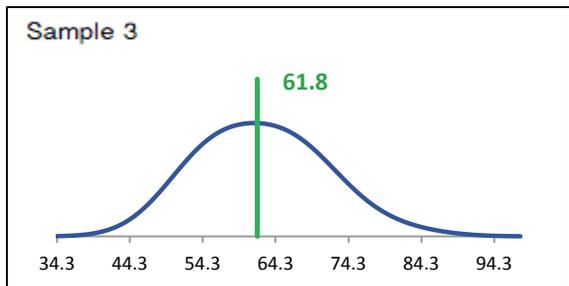
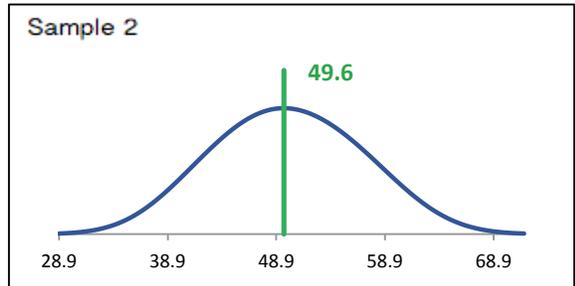
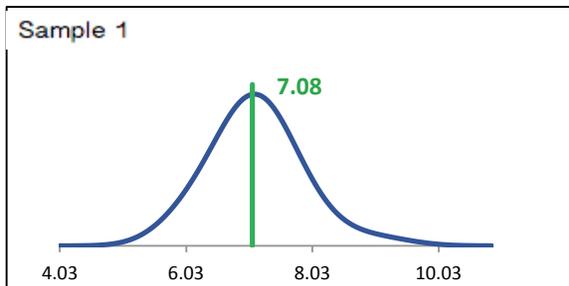


1,1-DICHLOROETHANE

z-Score Plots

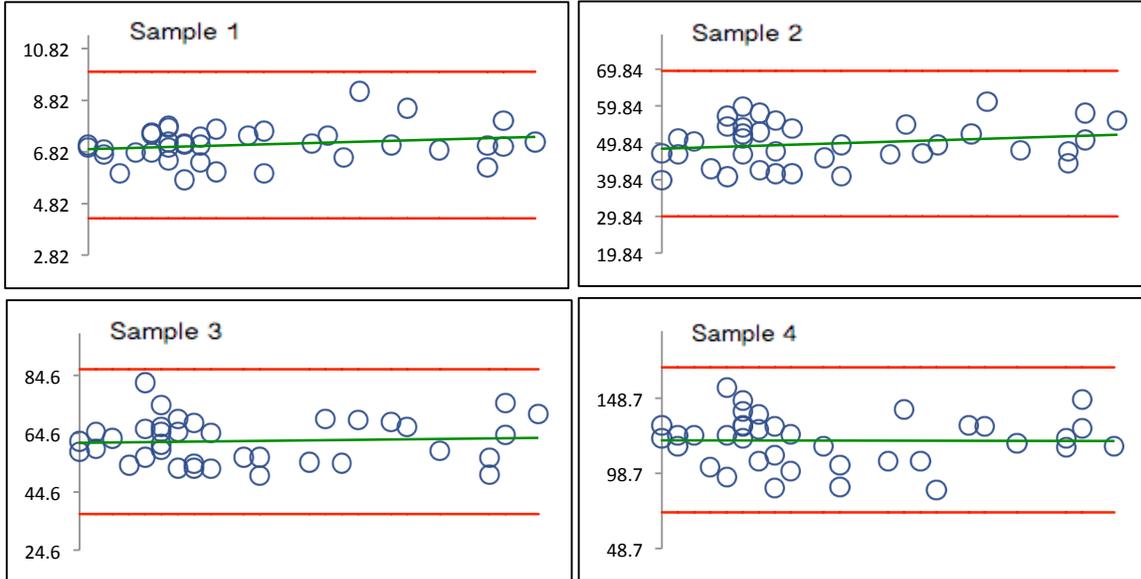


Kernel Density Plots



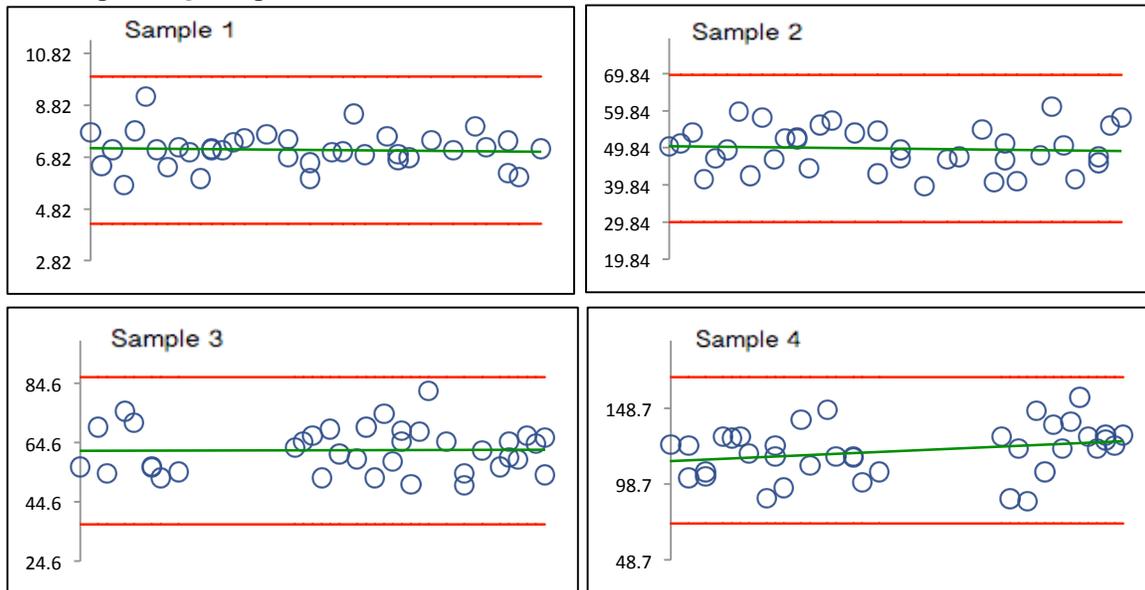
1,1-DICHLOROETHANE

Stability Regression



Reported results (Y-axis) plotted against reported analysis date (X-axis)

Homogeneity Regression



Reported results (Y-axis) plotted against bottling order (X-axis).

1,1-DICHLOROETHYLENE

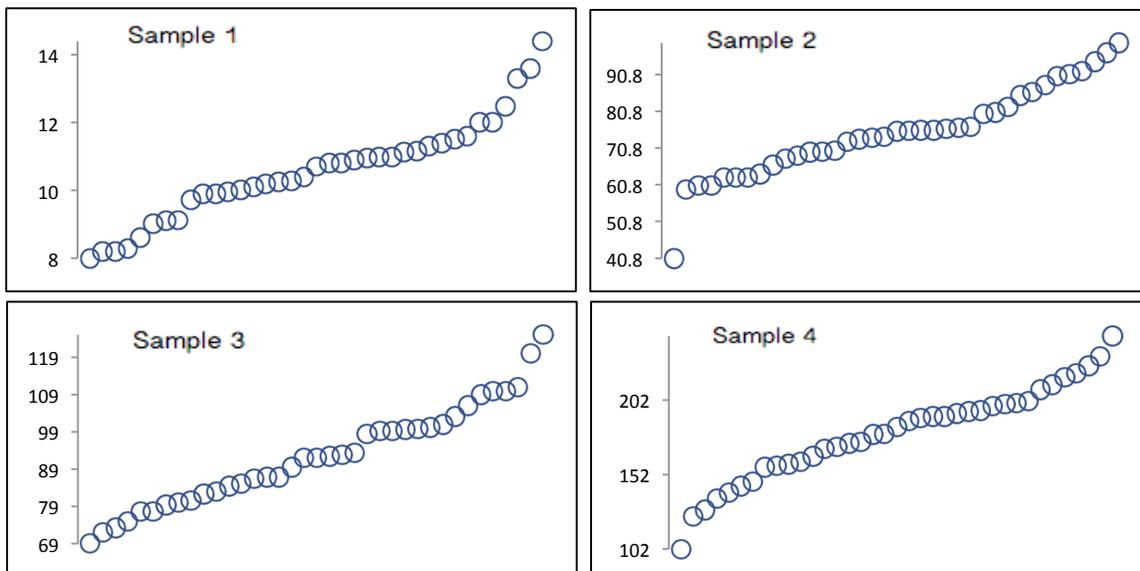
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	37	37	37	37
Median	10.7	75.3	92.0	184
Robust Mean	10.5	75.2	92.0	180
U	0.30	2.49	2.92	6.68
Robust Standard Deviation	1.46	12.1	14.2	32.5
Regression Standard Deviation	2.10	15.0	18.4	36.1
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA)	2.10	15.0	18.4	36.1
Outliers	0	0	0	0
z >3.0	0	0	0	0
2< z <3	0	1	0	1

Methods Used

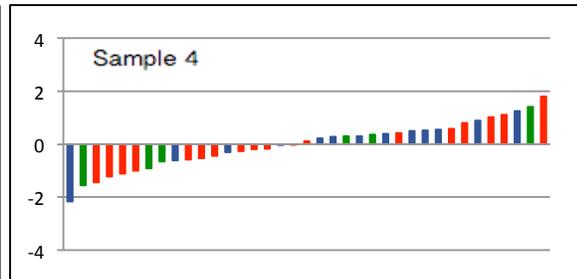
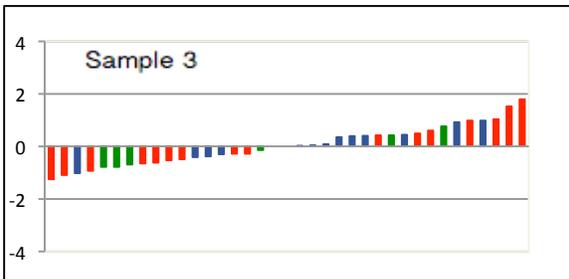
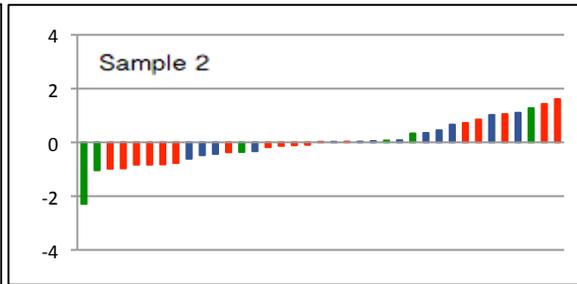
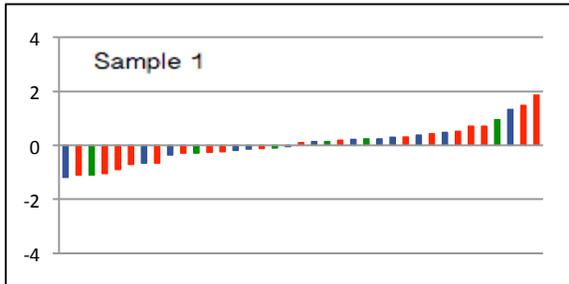
Method	C36-1	C36-2	C36-3	C36-4
HS-GCMS	13	13	13	13
P/T-GCMS	18	18	18	18
GC/MSE	6	6	6	6

All summary stats and the plots below are based on the data excluding any flagged outliers

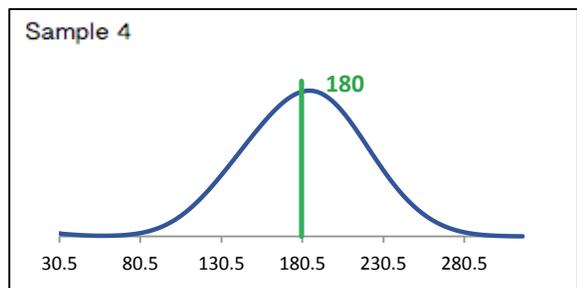
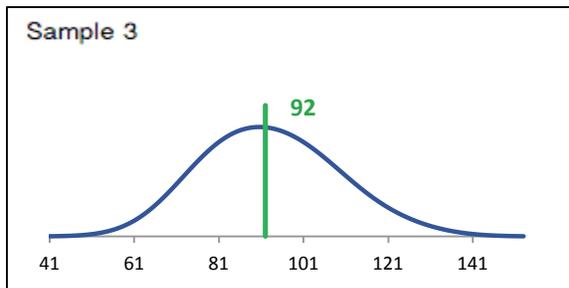
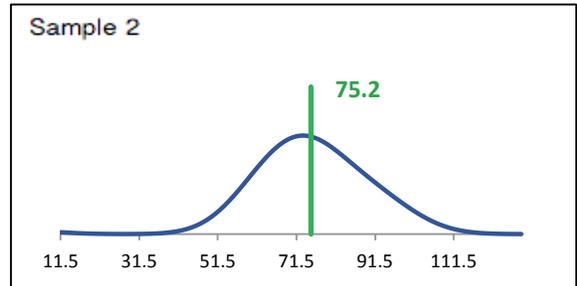
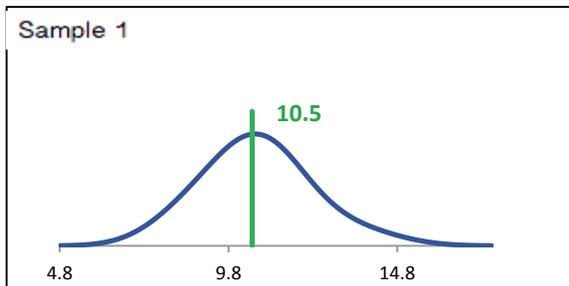


1,1-DICHLOROETHYLENE

z-Score Plots

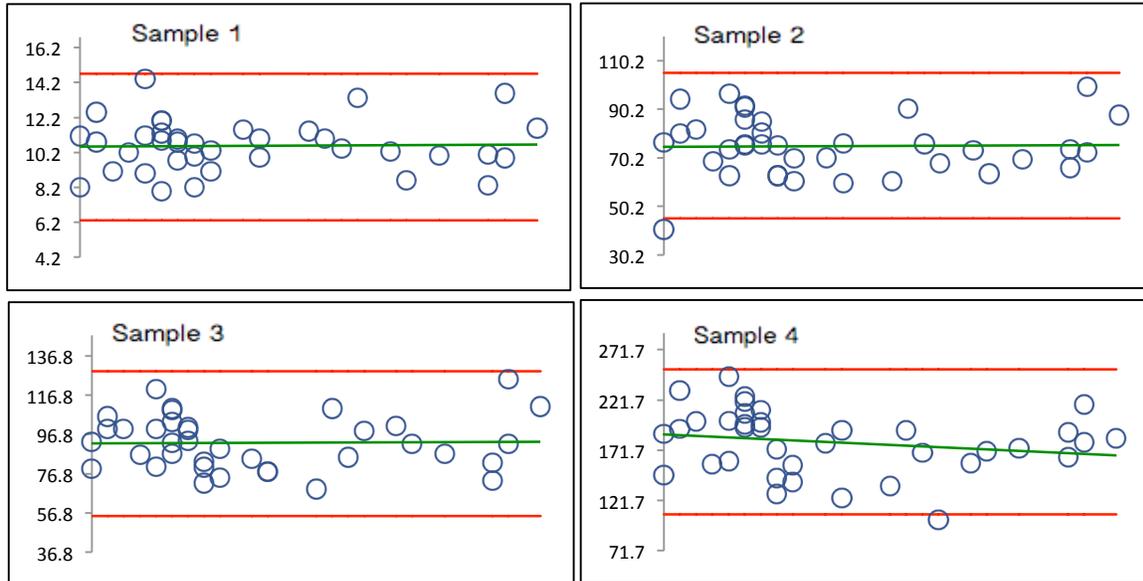


Kernel Density Plots



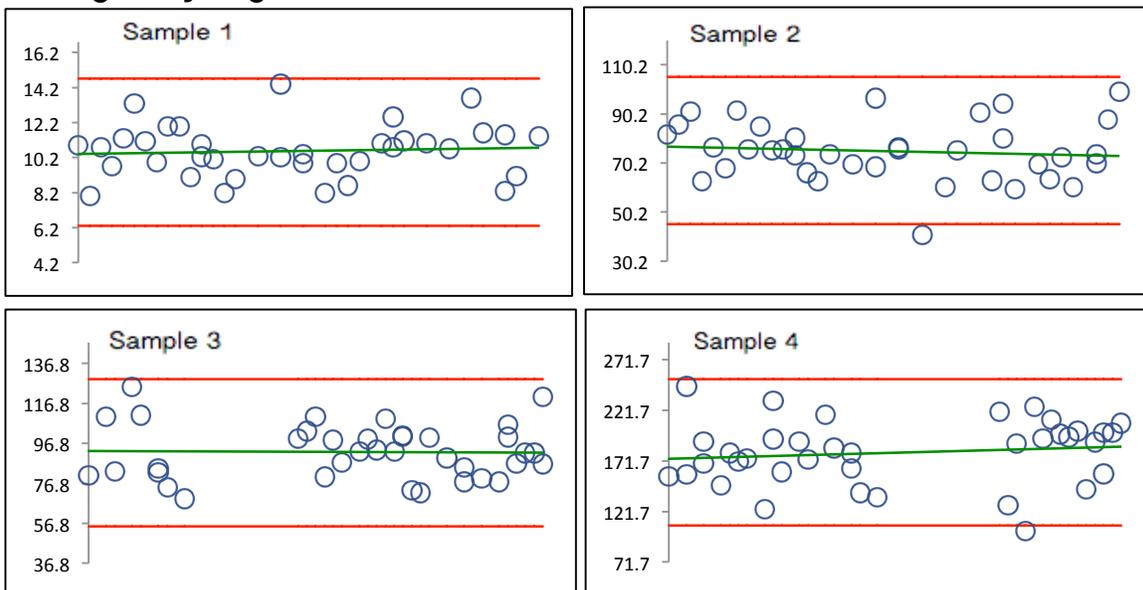
1,1-DICHLOROETHYLENE

Stability Regression



Reported results (Y-axis) plotted against reported analysis date (X-axis)

Homogeneity Regression



Reported results (Y-axis) plotted against bottling order (X-axis).

1,2-DICHLOROBENZENE

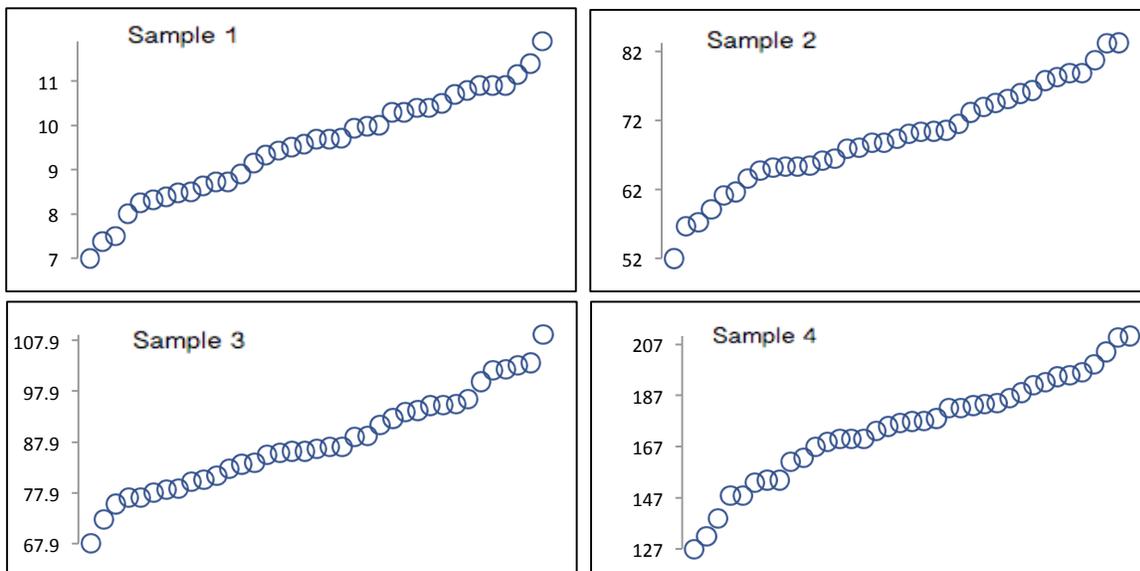
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	37	37	37	37
Median	9.69	69.3	86.5	177
Robust Mean	9.57	69.7	87.8	175
U	0.26	1.60	2.12	4.23
Robust Standard Deviation	1.26	7.80	10.3	20.6
Regression Standard Deviation	1.67	12.2	15.4	30.7
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA)	1.67	12.2	15.4	30.7
Outliers	0	0	0	0
z >3.0	0	0	0	0
2< z <3	0	0	0	0

Methods Used

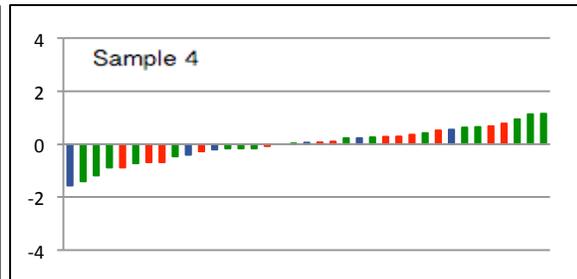
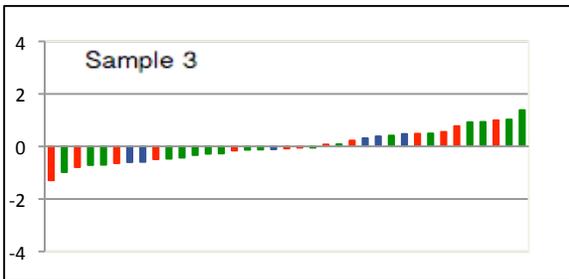
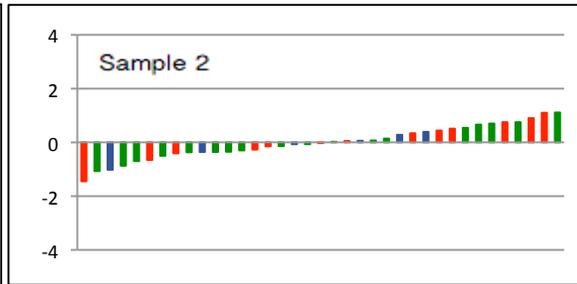
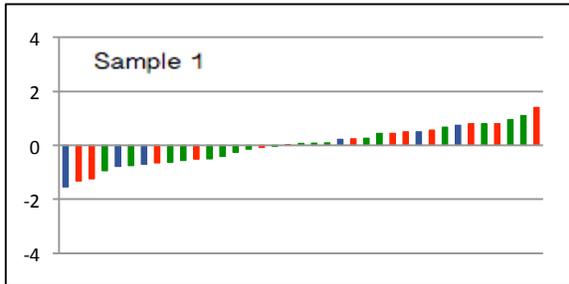
Method	C36-1	C36-2	C36-3	C36-4
GC/MSE	6	6	6	6
HS-GCMS	13	13	13	13
P/T-GCMS	18	18	18	18

All summary stats and the plots below are based on the data excluding any flagged outliers

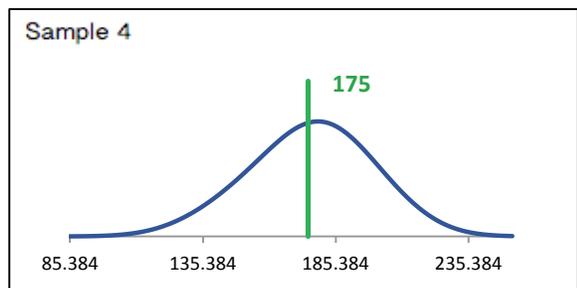
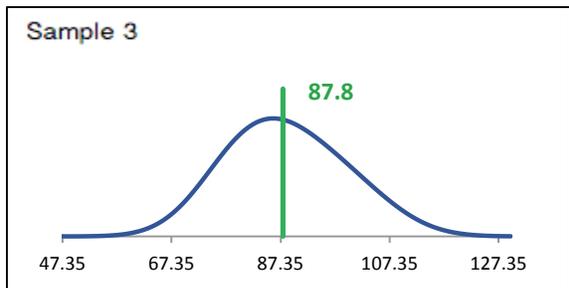
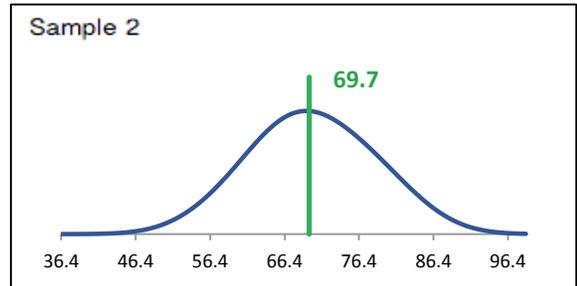
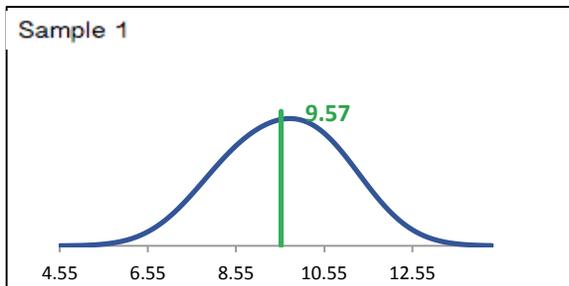


1,2-DICHLOROBENZENE

z-Score Plots

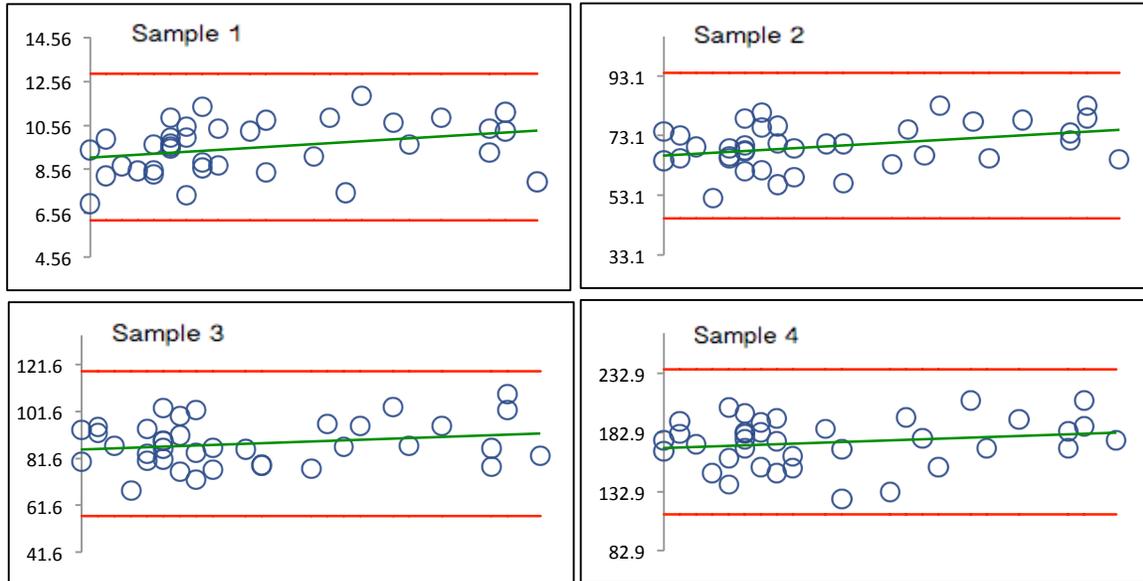


Kernel Density Plots



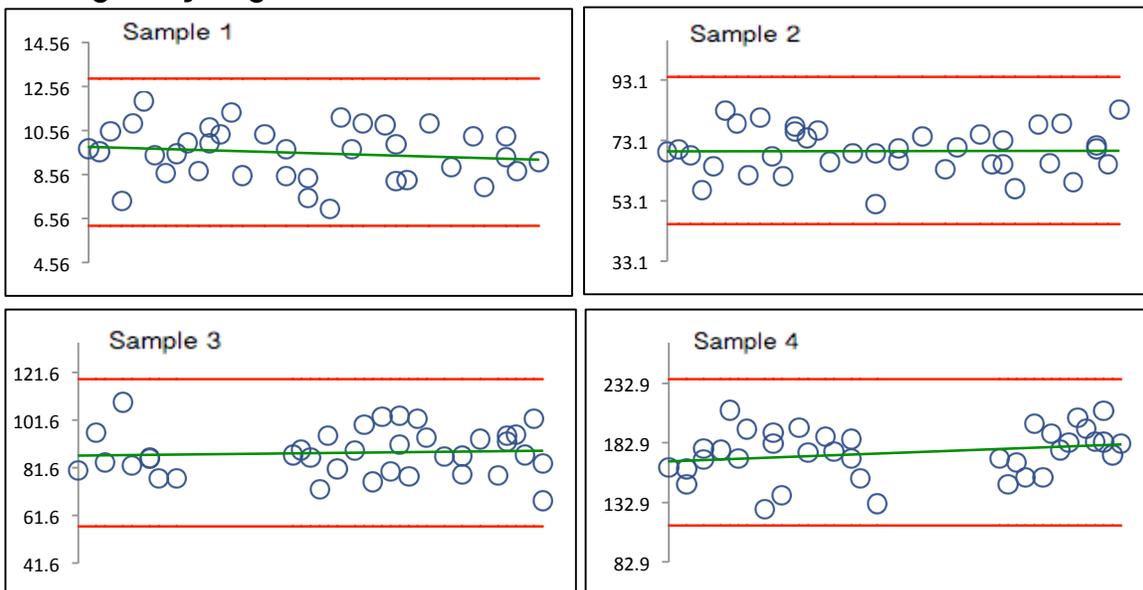
1,2-DICHLOROBENZENE

Stability Regression



Reported results (Y-axis) plotted against reported analysis date (X-axis)

Homogeneity Regression



Reported results (Y-axis) plotted against bottling order (X-axis).

1,2-DICHLOROETHANE

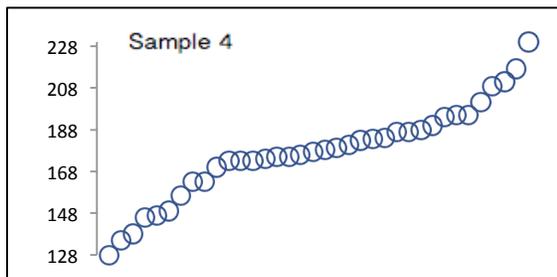
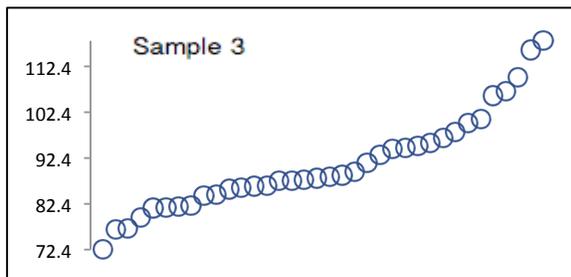
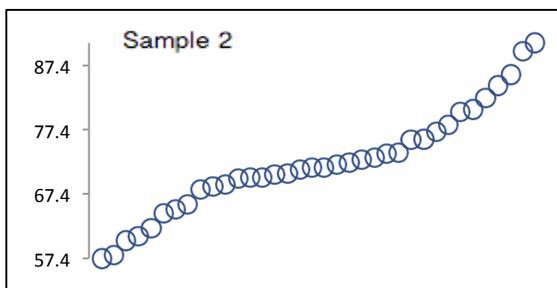
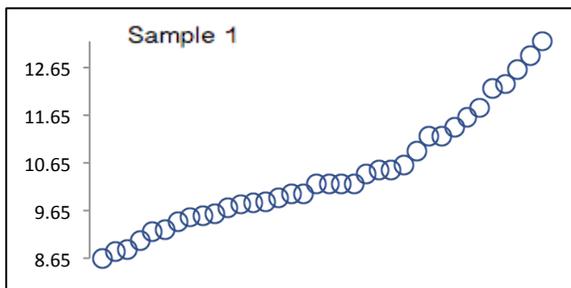
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	36	36	36	36
Median	10.2	71.5	88.1	178
Robust Mean	10.3	72.0	90.3	178
U	0.25	1.71	2.08	4.60
Robust Standard Deviation	1.21	8.19	10.0	22.1
Regression Standard Deviation	1.81	12.6	15.8	31.1
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA)	1.81	12.6	15.8	31.1
Outliers	0	0	0	0
z >3.0	0	0	0	0
2< z <3	0	0	0	0

Methods Used

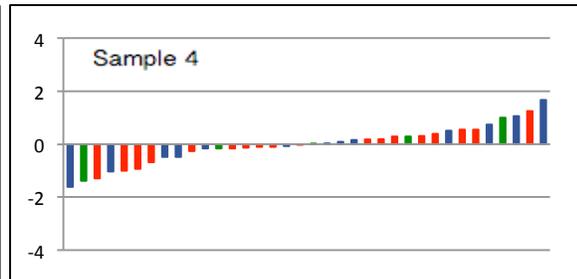
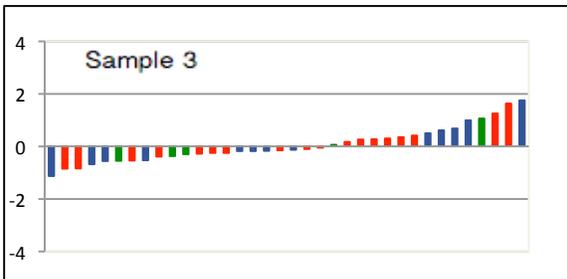
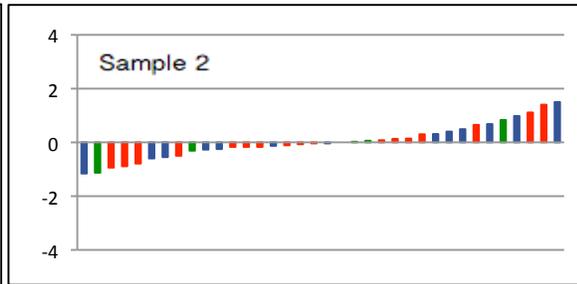
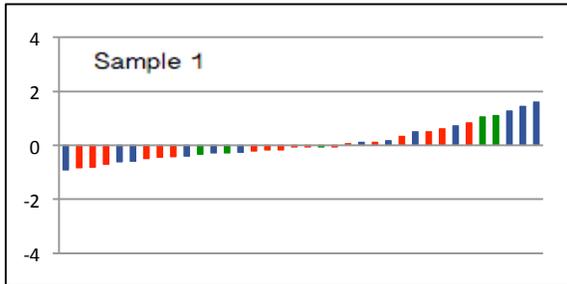
Method	C36-1	C36-2	C36-3	C36-4
HS-GCMS	13	13	13	13
P/T-GCMS	18	18	18	18
GC/MSE	5	5	5	5

All summary stats and the plots below are based on the data excluding any flagged outliers

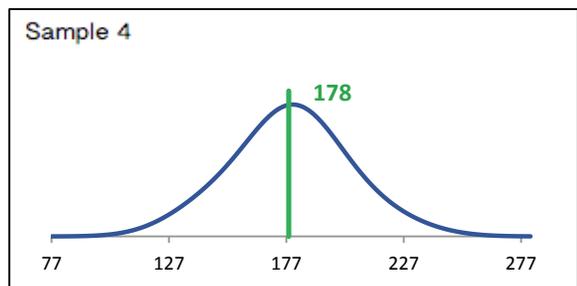
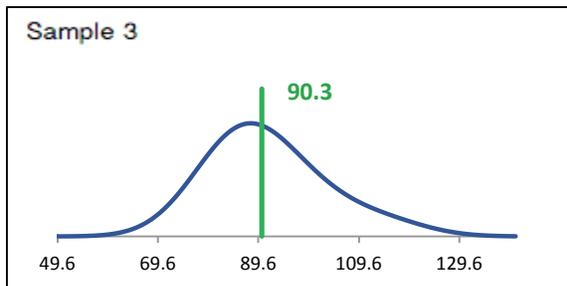
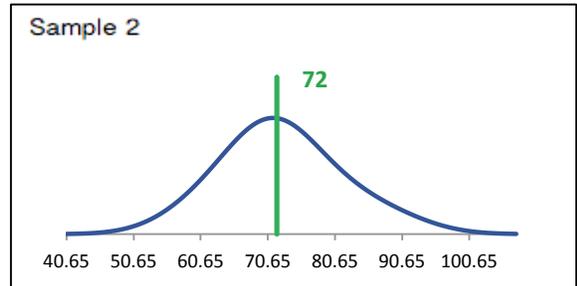
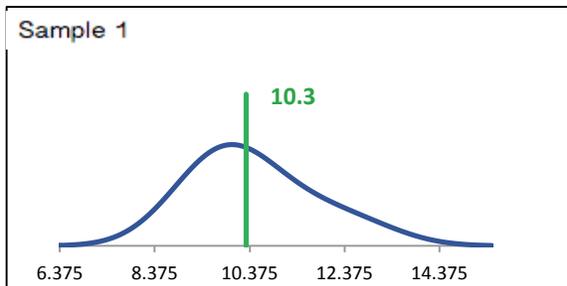


1,2-DICHLOROETHANE

z-Score Plots

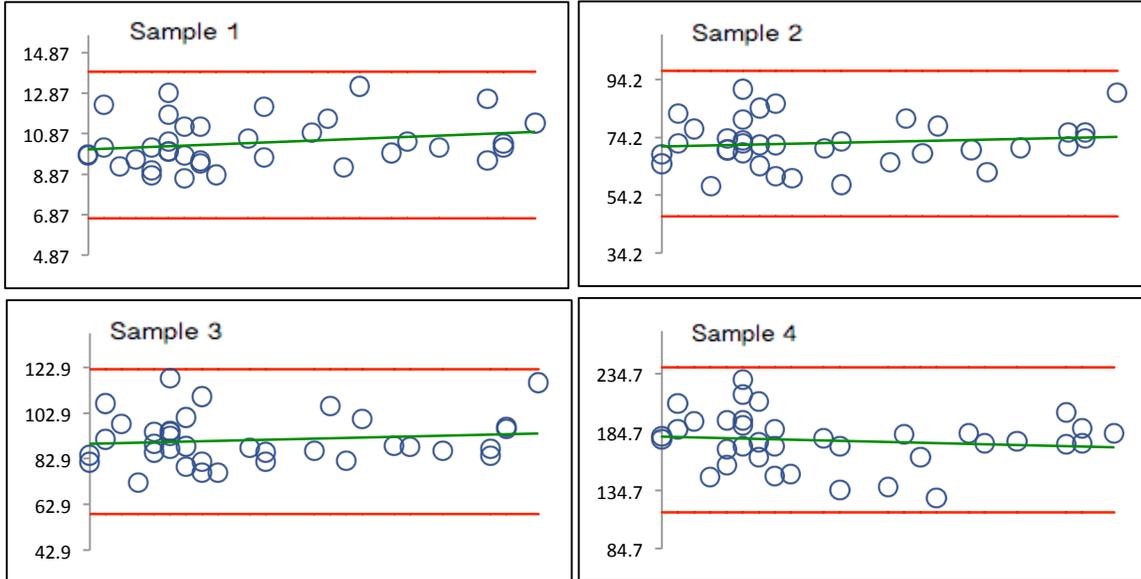


Kernel Density Plots



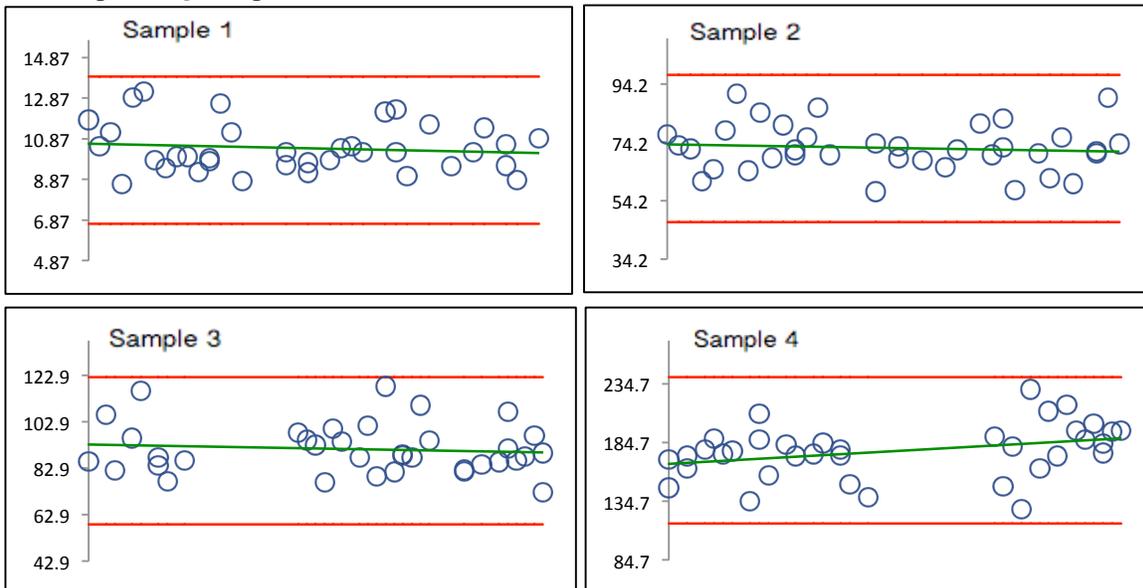
1,2-DICHLOROETHANE

Stability Regression



Reported results (Y-axis) plotted against reported analysis date (X-axis)

Homogeneity Regression



Reported results (Y-axis) plotted against bottling order (X-axis).

1,2-DICHLOROPROPANE

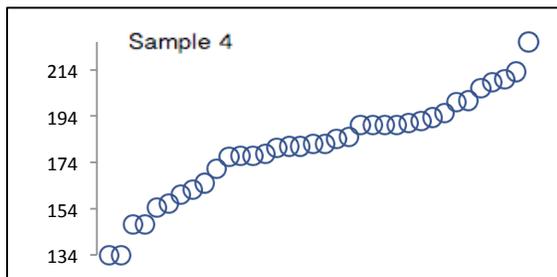
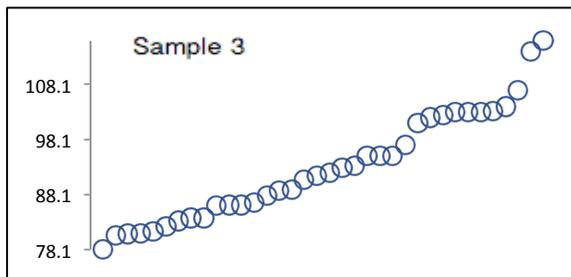
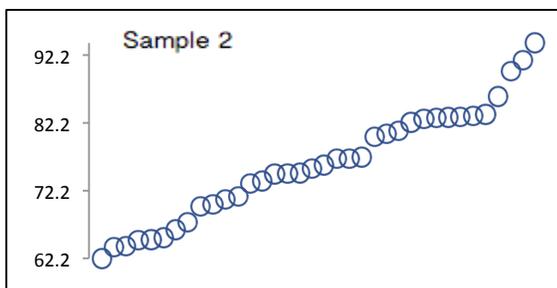
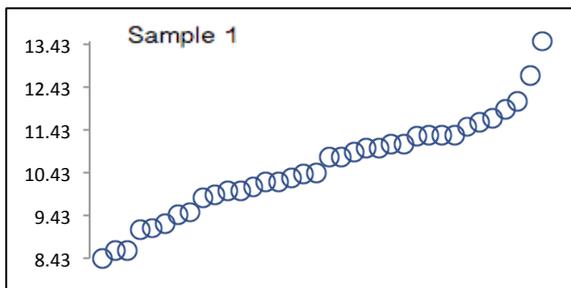
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	36	36	36	36
Median	10.6	75.7	91.8	182
Robust Mean	10.5	75.9	92.6	181
U	0.24	1.86	2.13	4.48
Robust Standard Deviation	1.16	8.95	10.2	21.5
Regression Standard Deviation	1.84	13.3	16.2	31.8
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA)	1.84	13.3	16.2	31.8
Outliers	0	0	0	0
z >3.0	0	0	0	0
2< z <3	0	0	0	0

Methods Used

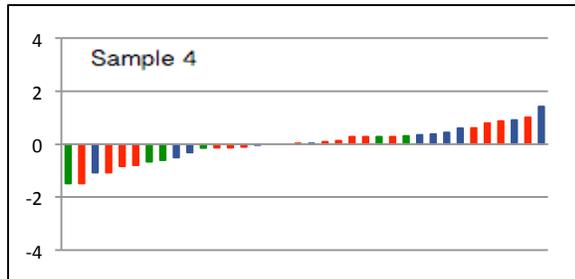
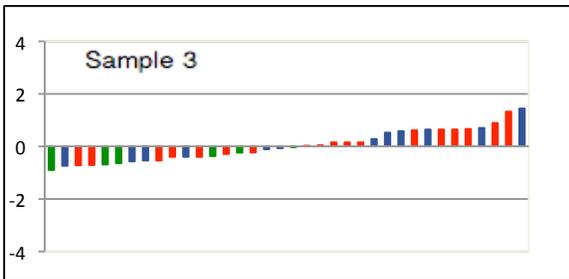
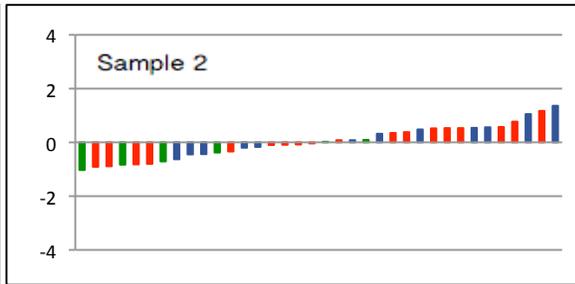
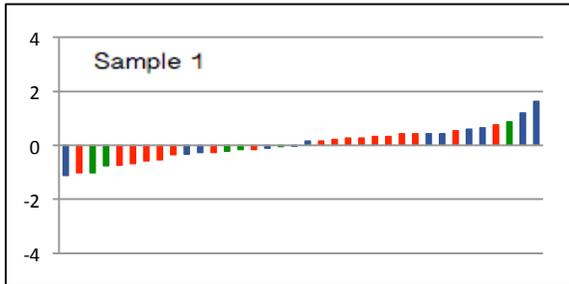
Method	C36-1	C36-2	C36-3	C36-4
HS-GCMS	12	12	12	12
P/T-GCMS	18	18	18	18
GC/MSE	6	6	6	6

All summary stats and the plots below are based on the data excluding any flagged outliers

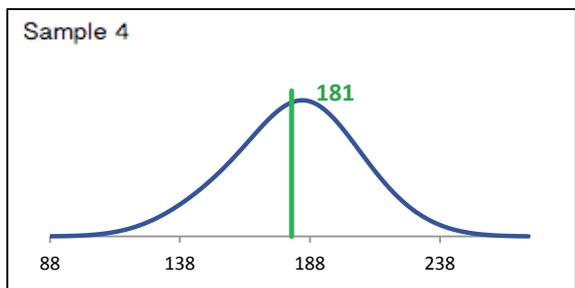
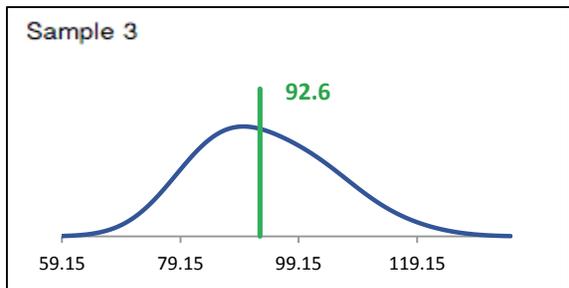
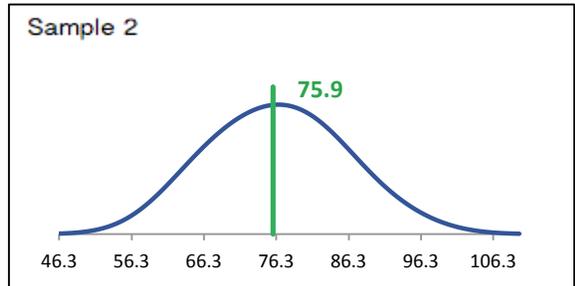
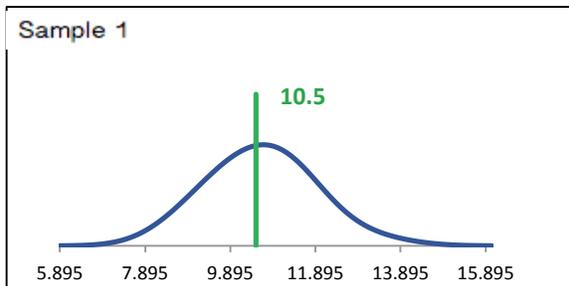


1,2-DICHLOROPROPANE

z-Score Plots

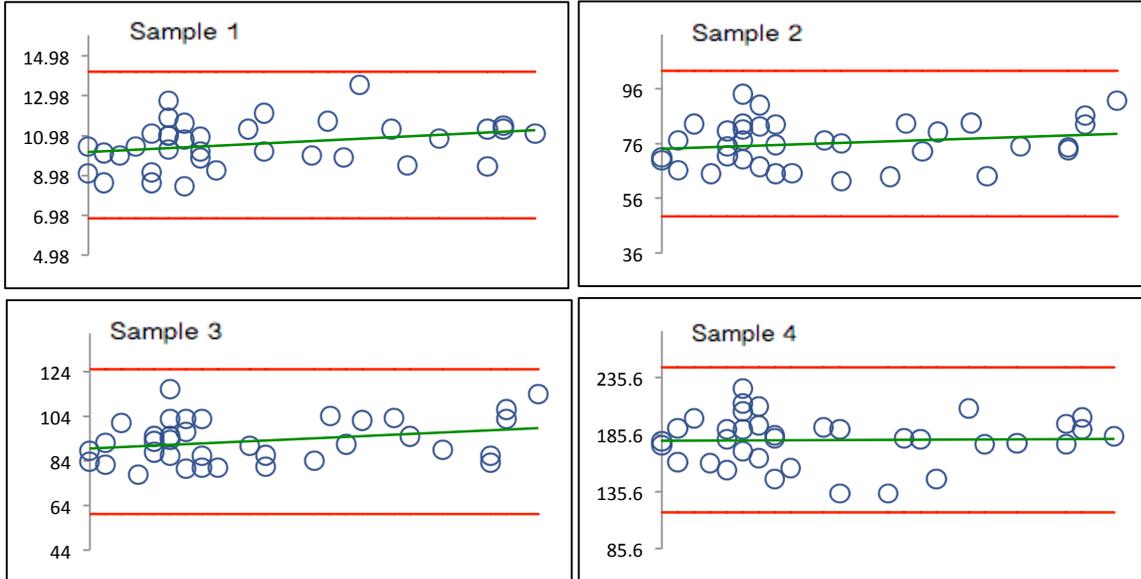


Kernel Density Plots



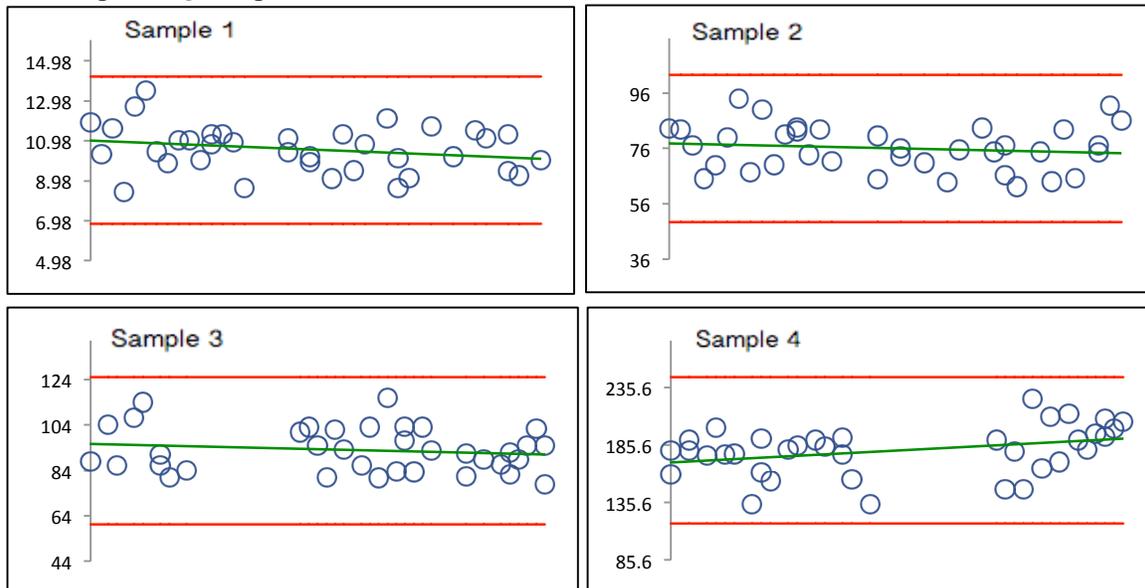
1,2-DICHLOROPROPANE

Stability Regression



Reported results (Y-axis) plotted against reported analysis date (X-axis)

Homogeneity Regression



Reported results (Y-axis) plotted against bottling order (X-axis).

1,3-DICHLOROBENZENE

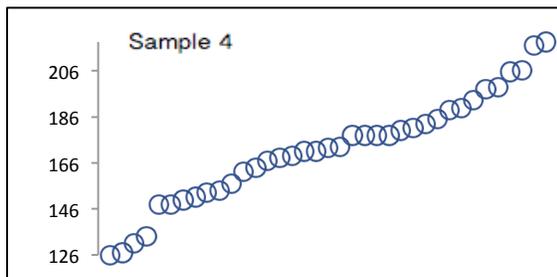
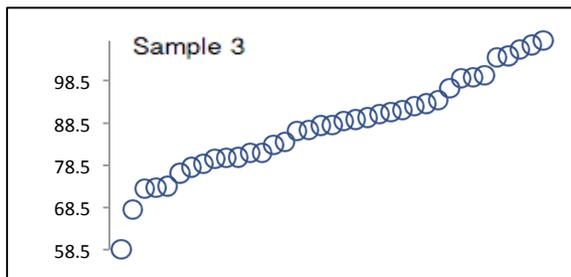
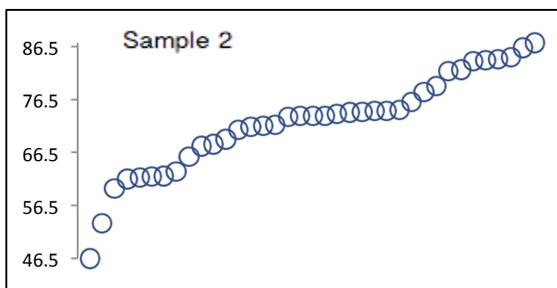
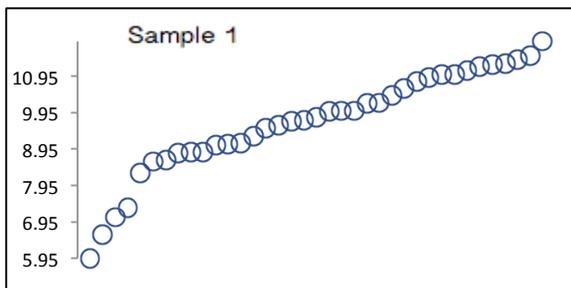
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	37	37	37	37
Median	9.81	73.4	88.0	172
Robust Mean	9.81	72.7	88.0	172
U	0.27	1.91	2.45	4.99
Robust Standard Deviation	1.33	9.29	11.9	24.3
Regression Standard Deviation	1.72	12.7	15.4	30.1
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA)	1.72	12.7	15.4	30.1
Outliers	0	0	0	0
z >3.0	0	0	0	0
2< z <3	1	1	0	0

Methods Used

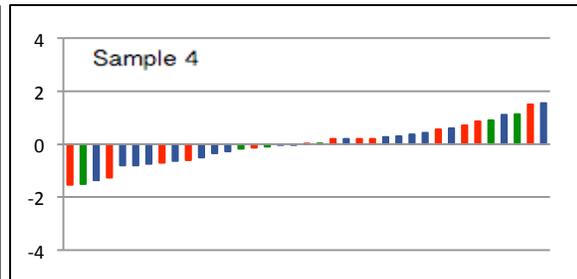
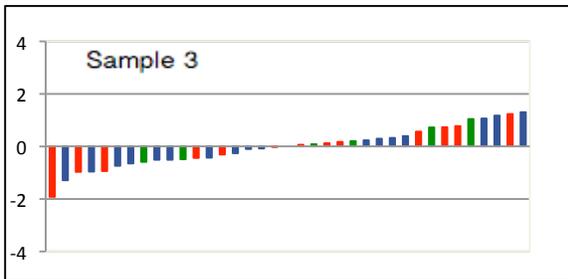
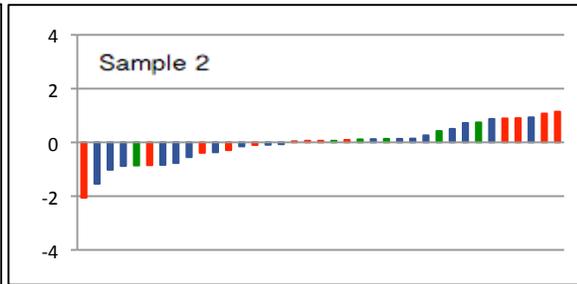
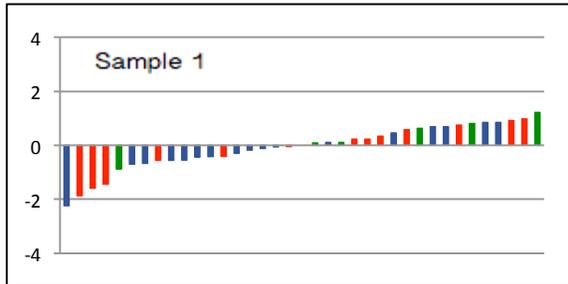
Method	C36-1	C36-2	C36-3	C36-4
P/T-GCMS	18	18	18	18
HS-GCMS	13	13	13	13
GC/MSE	6	6	6	6

All summary stats and the plots below are based on the data excluding any flagged outliers

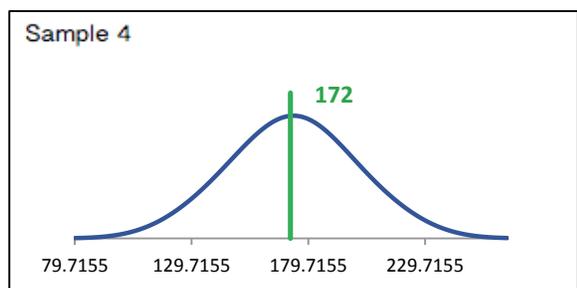
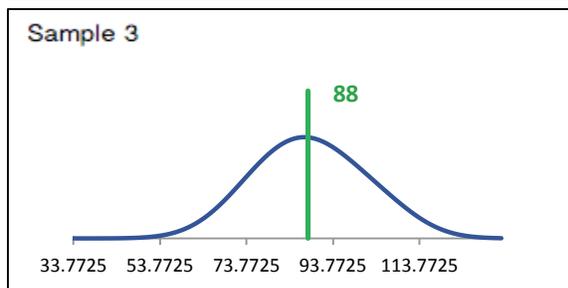
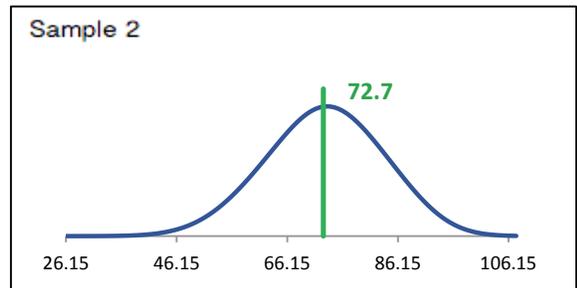
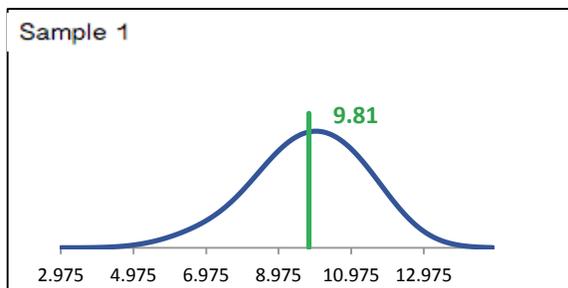


1,3-DICHLOROBENZENE

z-Score Plots

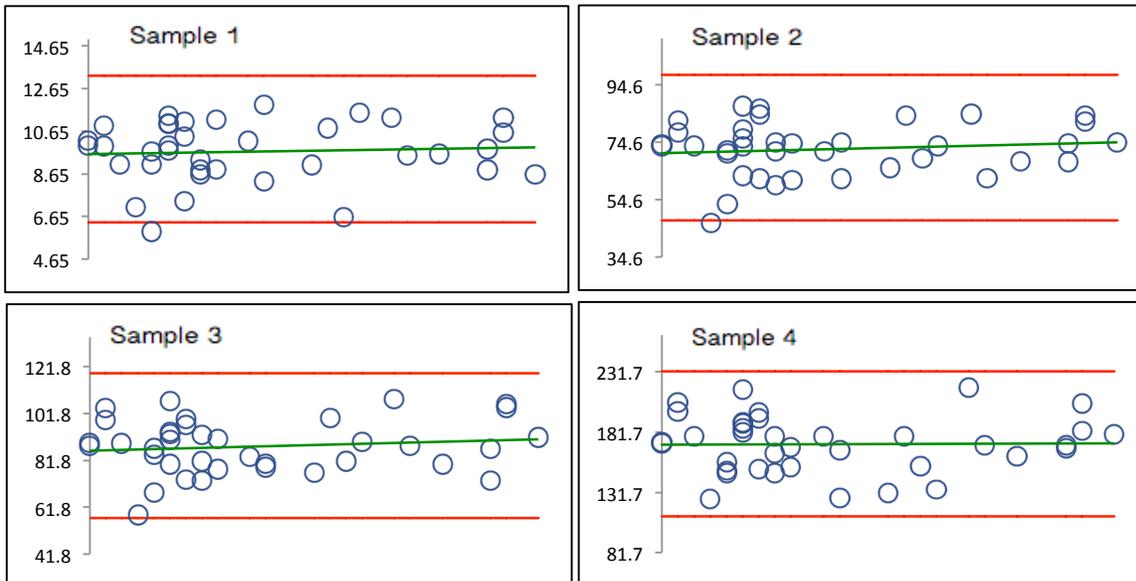


Kernel Density Plots



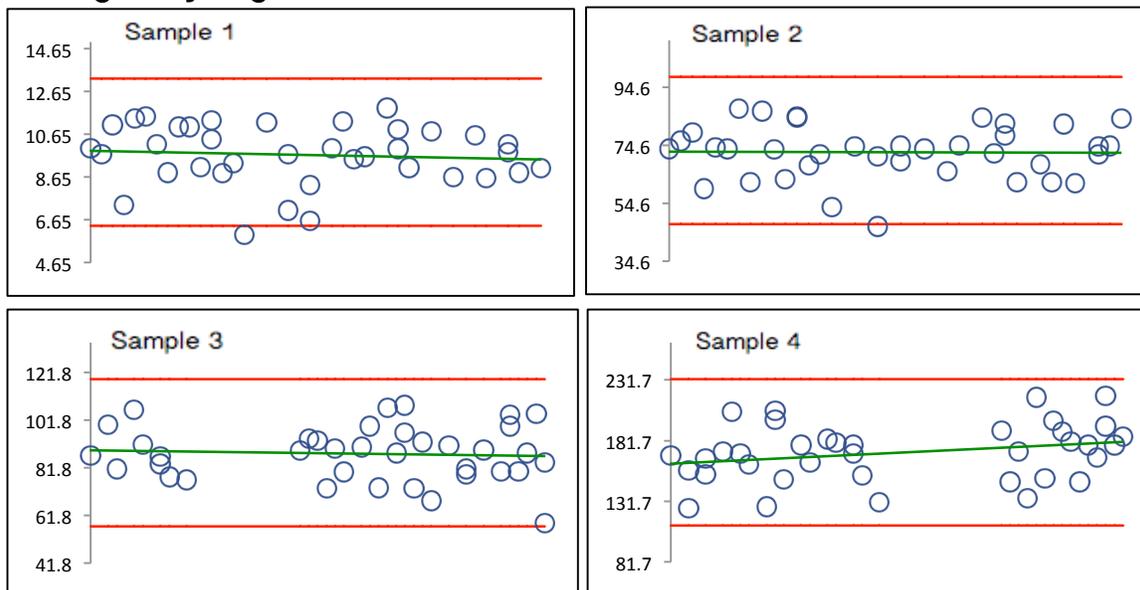
1,3-DICHLOROBENZENE

Stability Regression



Reported results (Y-axis) plotted against reported analysis date (X-axis)

Homogeneity Regression



Reported results (Y-axis) plotted against bottling order (X-axis).

1,4-DICHLOROBENZENE

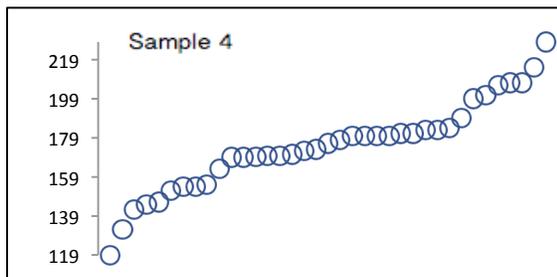
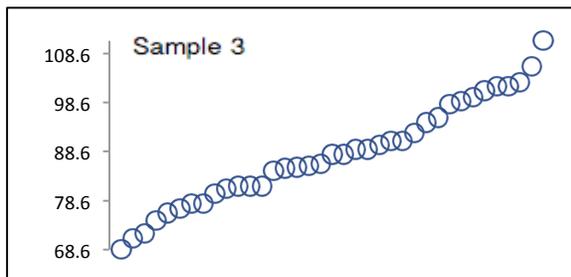
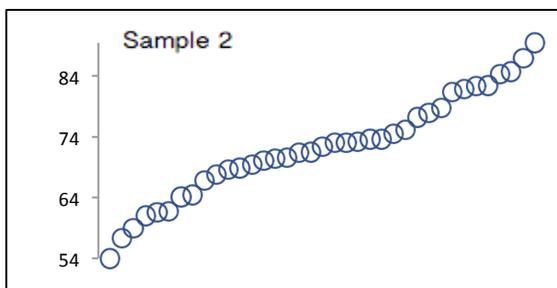
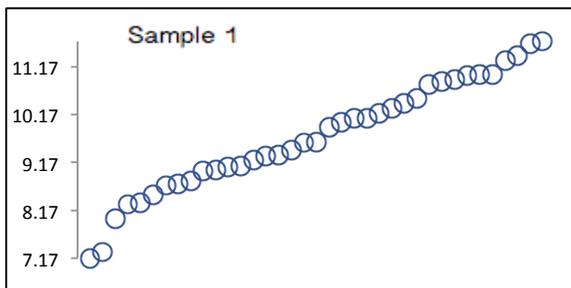
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	37	37	37	37
Median	9.60	72.4	88.0	176
Robust Mean	9.75	72.3	87.9	175
U	0.26	1.86	2.34	4.66
Robust Standard Deviation	1.26	9.03	11.4	22.7
Regression Standard Deviation	1.71	12.7	15.4	30.6
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA)	1.71	12.7	15.4	30.6
Outliers	0	0	0	0
z >3.0	0	0	0	0
2< z <3	0	0	0	0

Methods Used

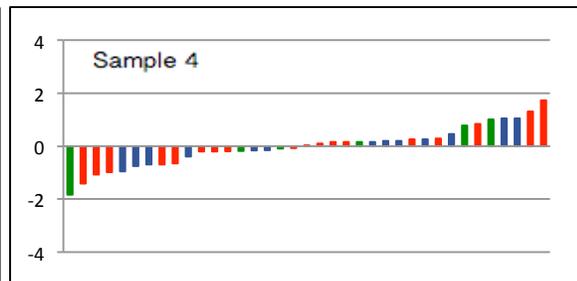
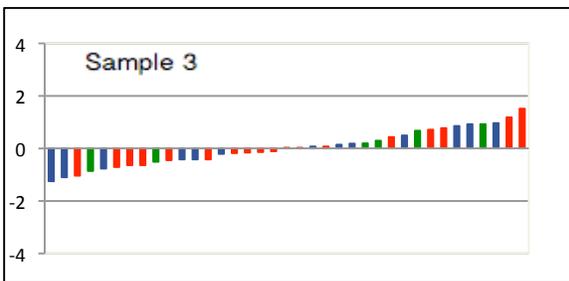
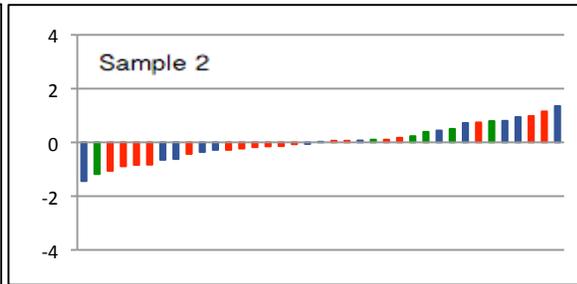
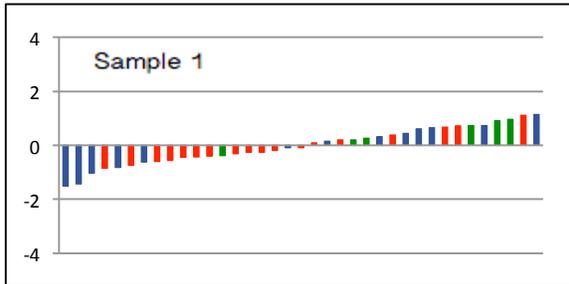
Method	C36-1	C36-2	C36-3	C36-4
HS-GCMS	13	13	13	13
P/T-GCMS	18	18	18	18
GC/MSE	6	6	6	6

All summary stats and the plots below are based on the data excluding any flagged outliers

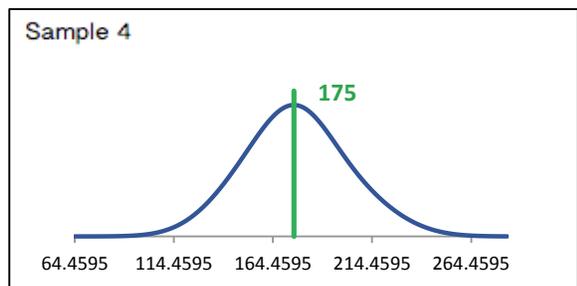
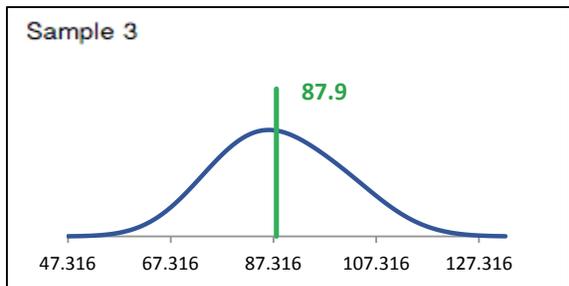
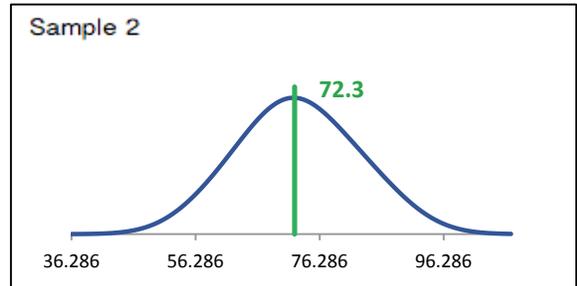
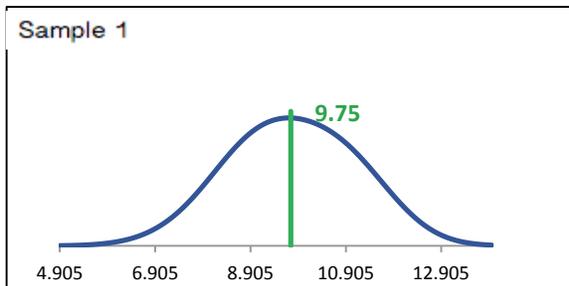


1,4-DICHLOROBENZENE

z-Score Plots

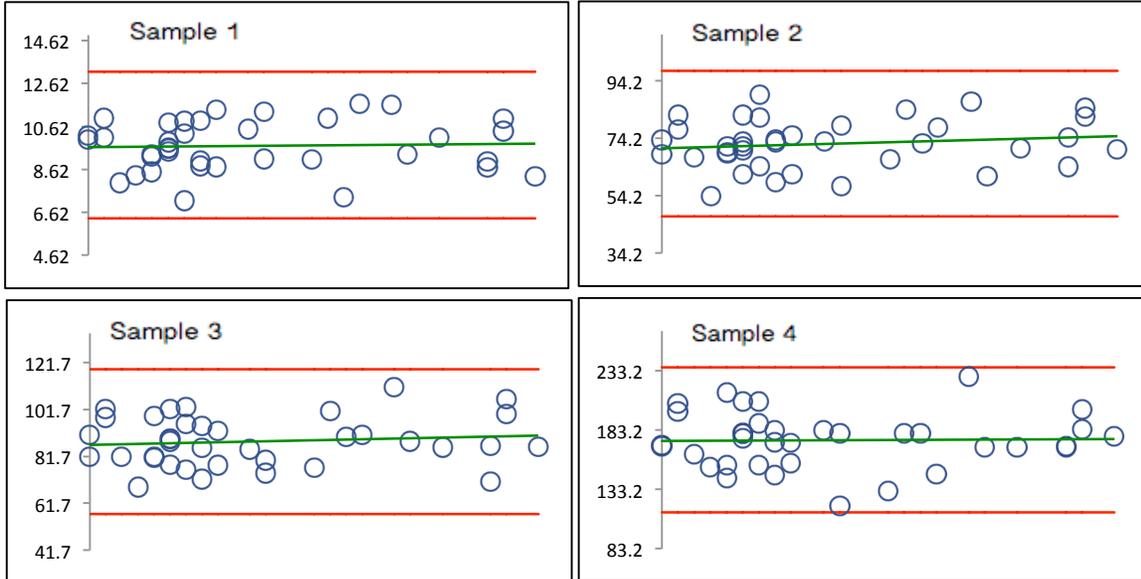


Kernel Density Plots



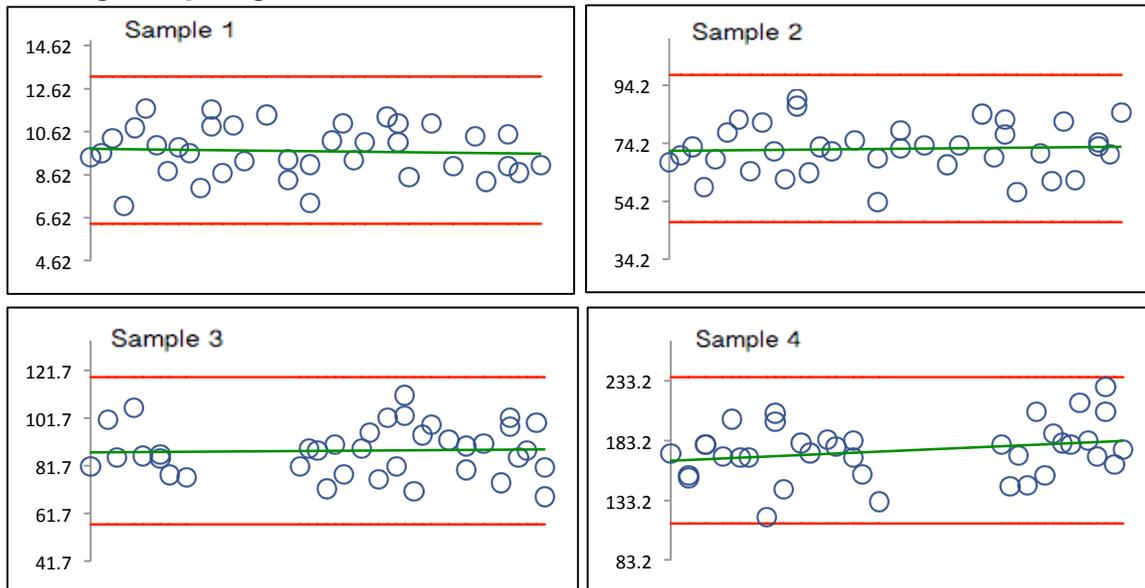
1,4-DICHLOROBENZENE

Stability Regression



Reported results (Y-axis) plotted against reported analysis date (X-axis)

Homogeneity Regression



Reported results (Y-axis) plotted against bottling order (X-axis).

ACETONE (2-PROPANONE)

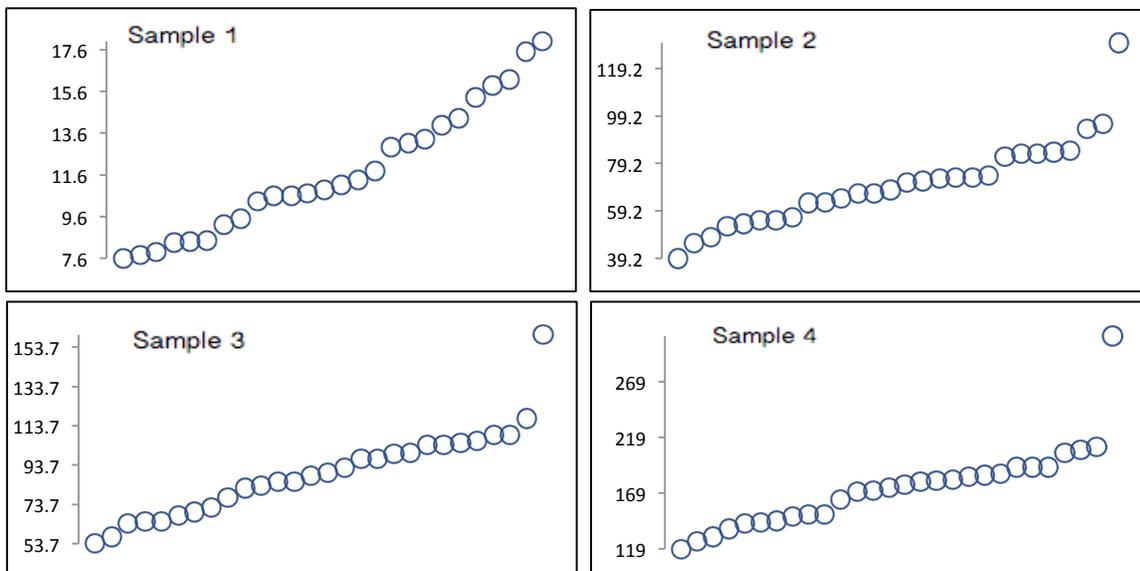
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	26	28	28	28
Median	11.0	69.5	88.9	175
Robust Mean	11.6	69.2	88.1	170
U	0.81	3.99	5.00	7.26
Robust Standard Deviation	3.32	16.6	20.8	30.2
Regression Standard Deviation	3.59	15.3	19.2	35.9
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA)	3.59	16.6	20.8	35.9
Outliers	0	0	0	0
z >3.0	0	1	1	1
2< z <3	0	0	0	0

Methods Used

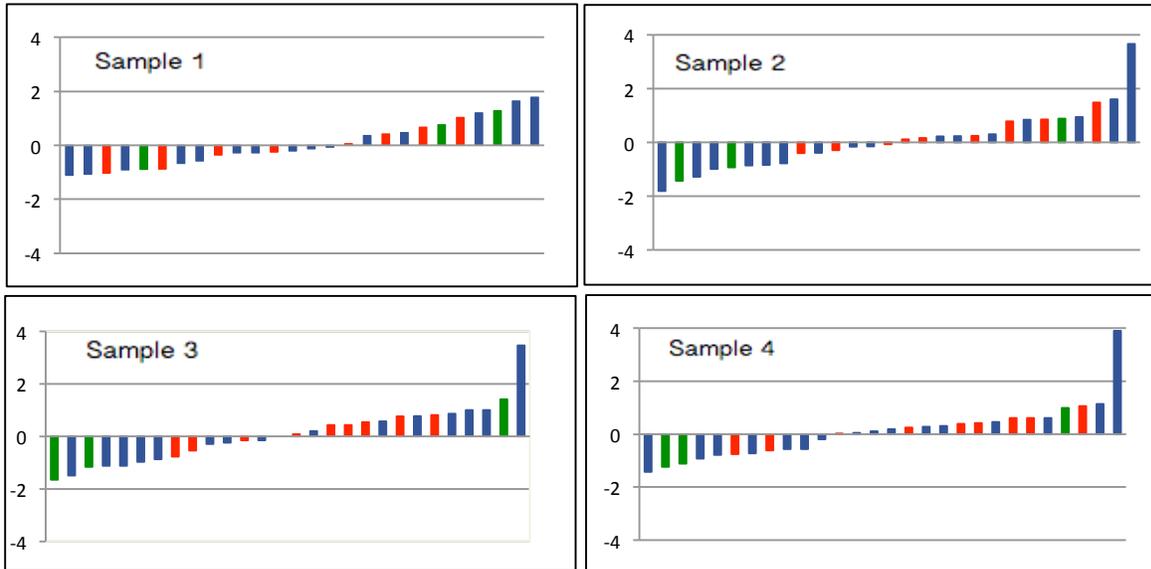
Method	C36-1	C36-2	C36-3	C36-4
P/T-GCMS	15	16	16	16
HS-GCMS	8	9	9	9
GC/MSE	3	3	3	3

All summary stats and the plots below are based on the data excluding any flagged outliers

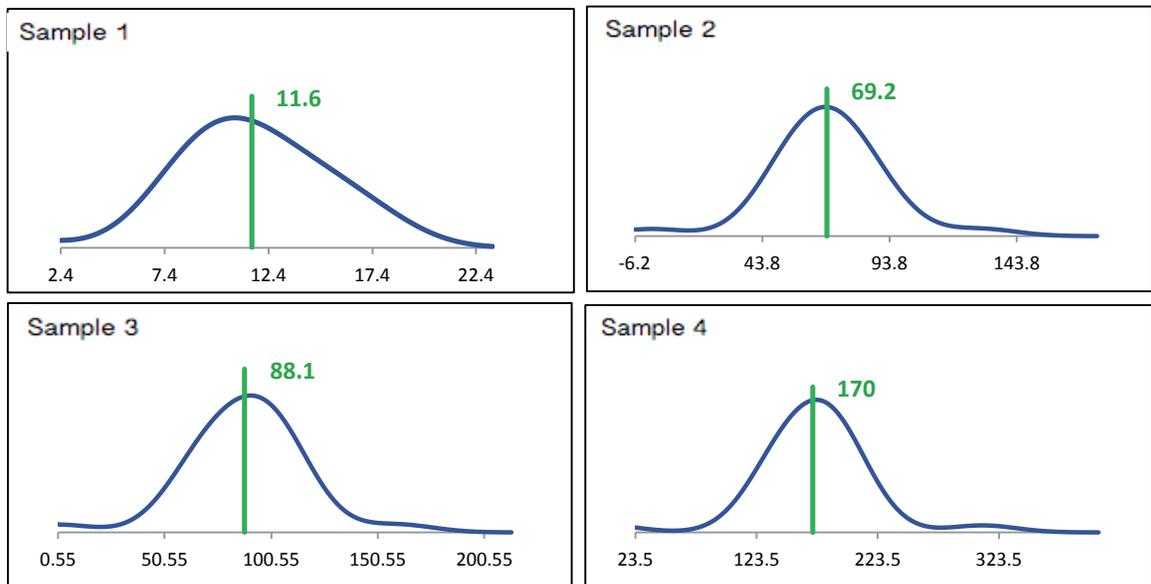


ACETONE (2-PROPANONE)

z-Score Plots

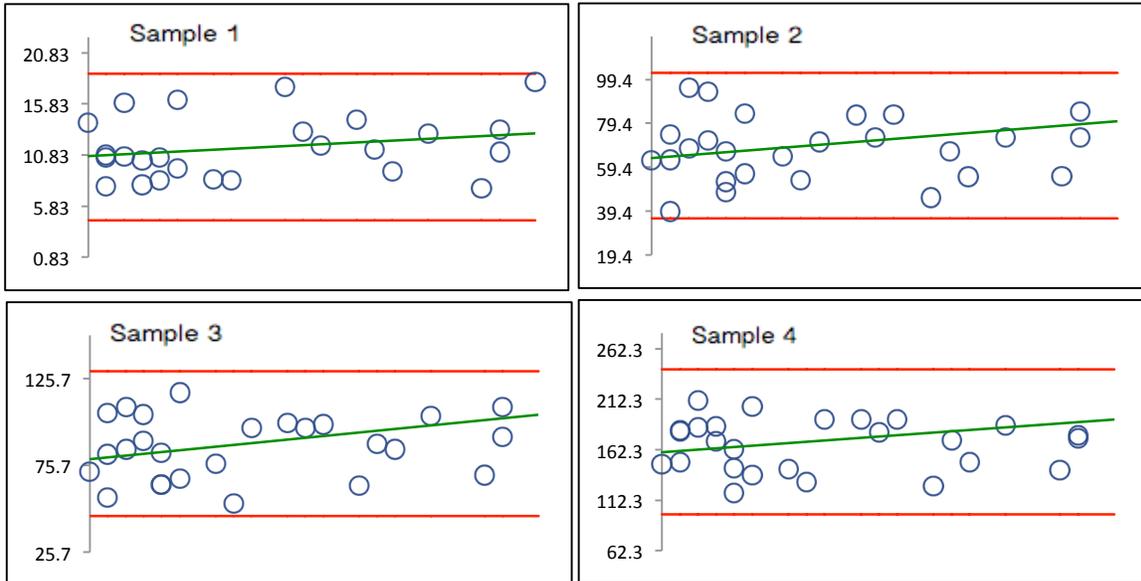


Kernel Density Plots



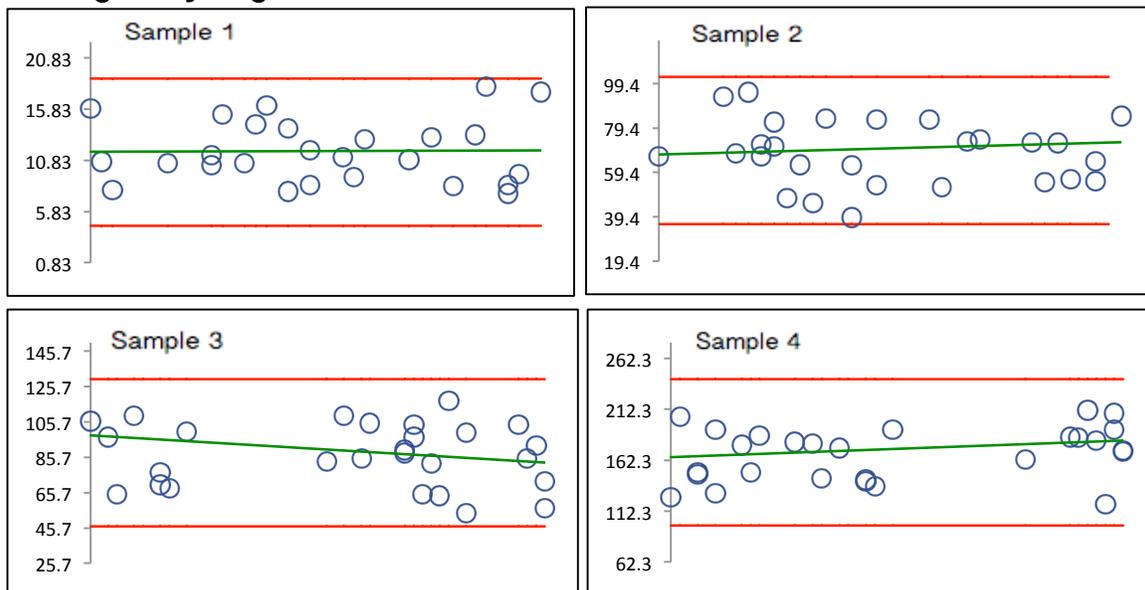
ACETONE (2-PROPANONE)

Stability Regression



Reported results (Y-axis) plotted against reported analysis date (X-axis)

Homogeneity Regression



Reported results (Y-axis) plotted against bottling order (X-axis).

BENZENE

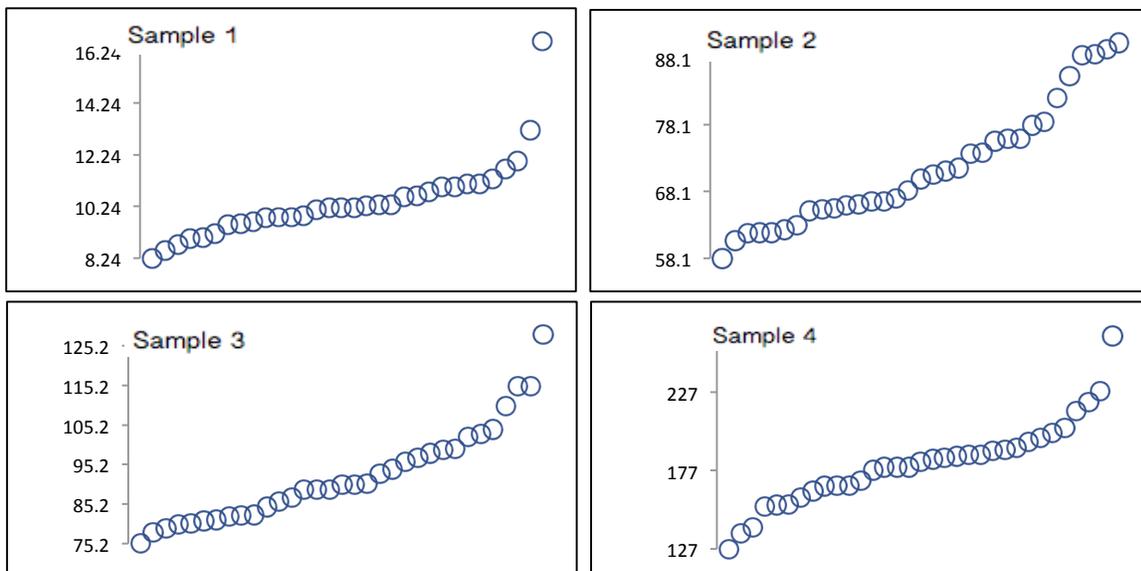
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	32	33	33	33
Median	10.2	70.0	90.0	182
Robust Mean	10.2	71.2	91.3	180
U	0.24	2.06	2.48	5.18
Robust Standard Deviation	1.07	9.46	11.4	23.8
Regression Standard Deviation	1.79	12.5	16.0	31.6
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA)	1.79	12.5	16.0	31.6
Outliers	0	0	0	0
z >3.0	1	0	0	0
2< z <3	0	0	1	1

Methods Used

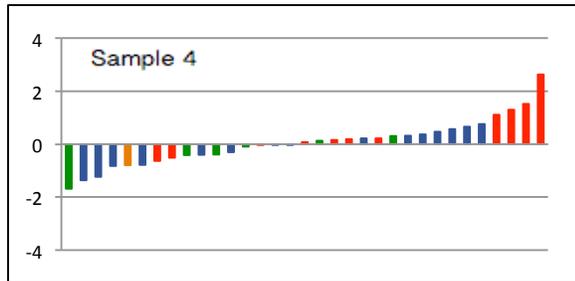
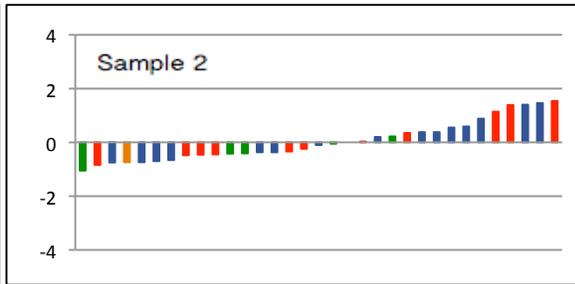
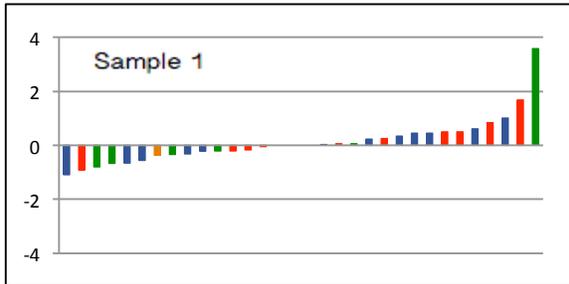
Method	C36-1	C36-2	C36-3	C36-4
P/T-GCMS	15	15	15	15
HS-GCMS	10	11	11	11
GC/MSE	6	6	6	6
GC/MSF/HS	1	1	1	1

All summary stats and the plots below are based on the data excluding any flagged outliers

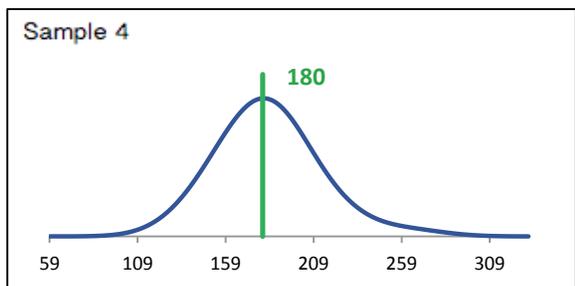
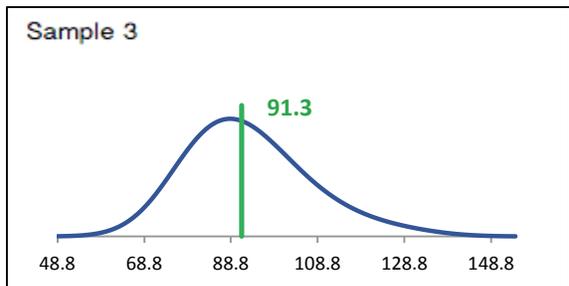
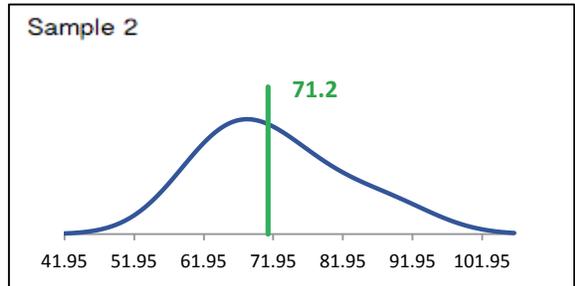
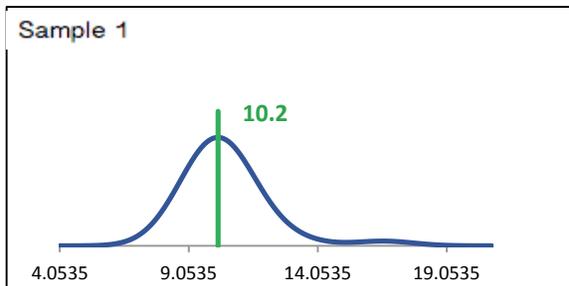


BENZENE

z-Score Plots

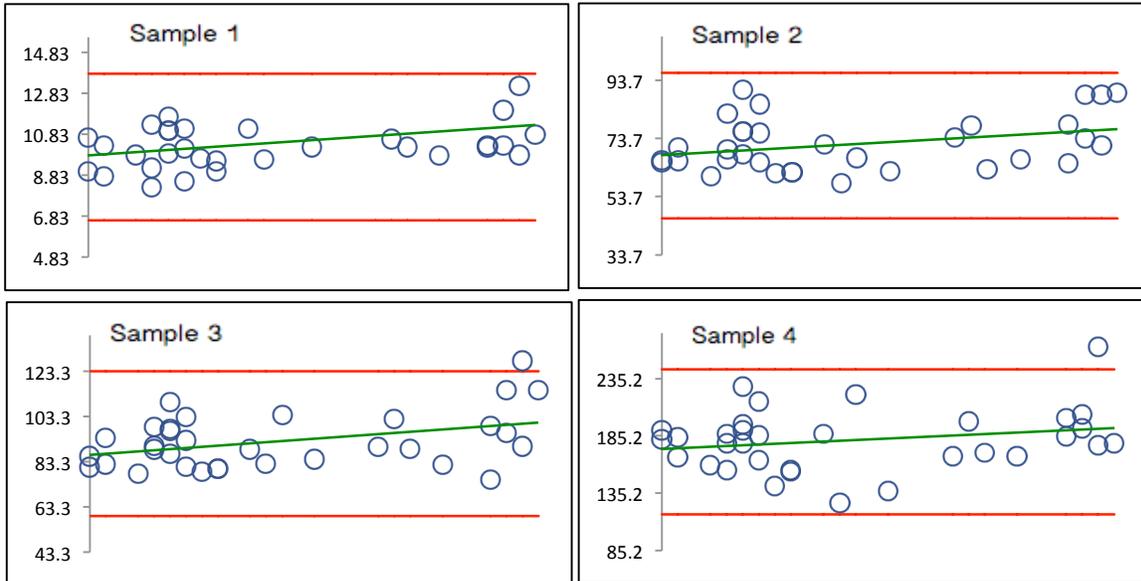


Kernel Density Plots



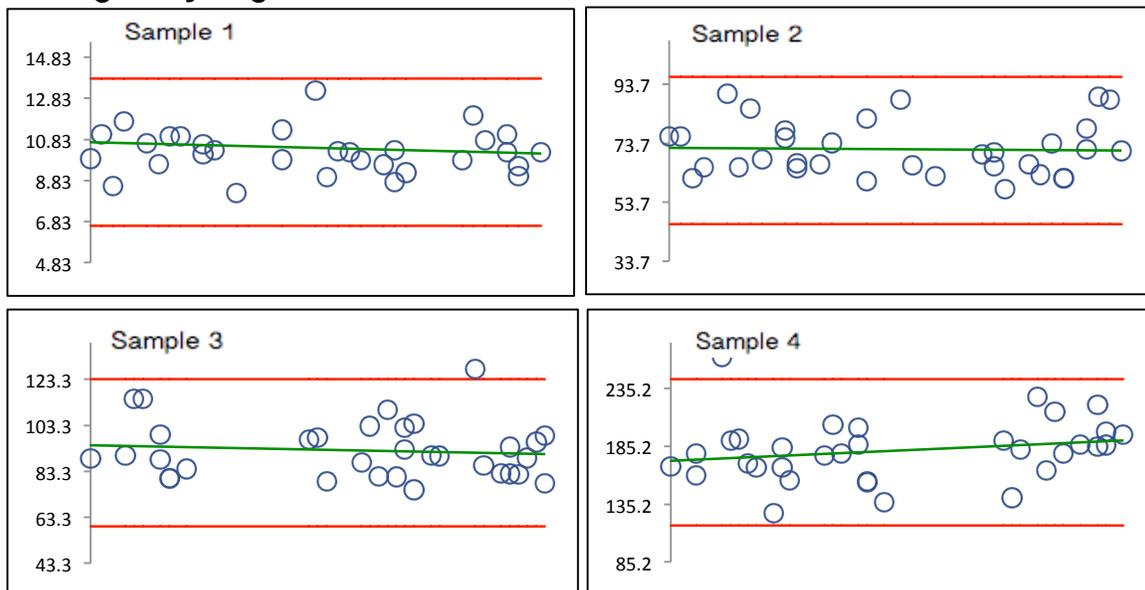
BENZENE

Stability Regression



Reported results (Y-axis) plotted against reported analysis date (X-axis)

Homogeneity Regression



Reported results (Y-axis) plotted against bottling order (X-axis).

BROMODICHLOROMETHANE

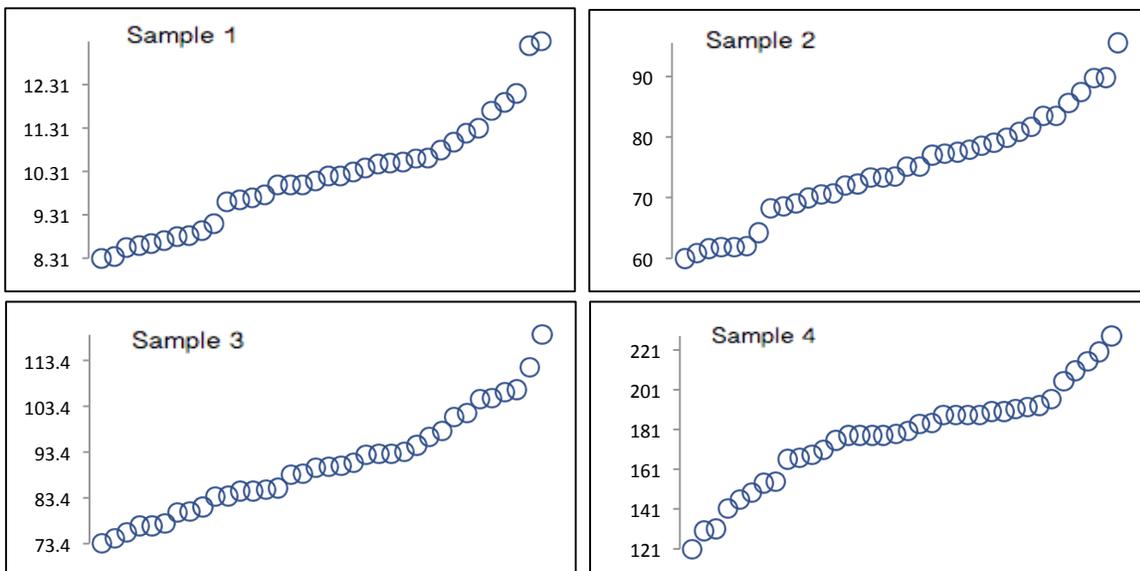
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	36	36	36	36
Median	10.2	74.4	90.1	180
Robust Mean	10.1	74.5	90.2	178
U	0.26	2.04	2.44	5.08
Robust Standard Deviation	1.25	9.78	11.7	24.4
Regression Standard Deviation	1.77	13.0	15.8	31.2
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA)	1.77	13.0	15.8	31.2
Outliers	0	0	0	0
z >3.0	0	0	0	0
2< z <3	0	0	0	0

Methods Used

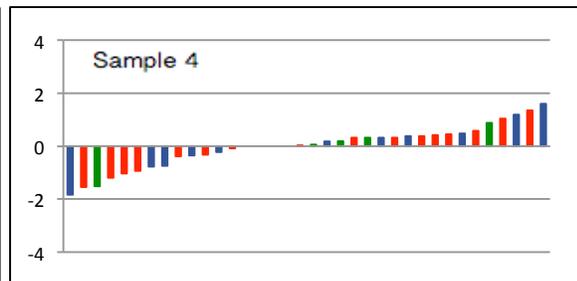
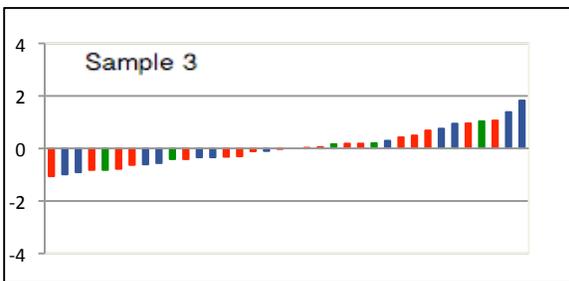
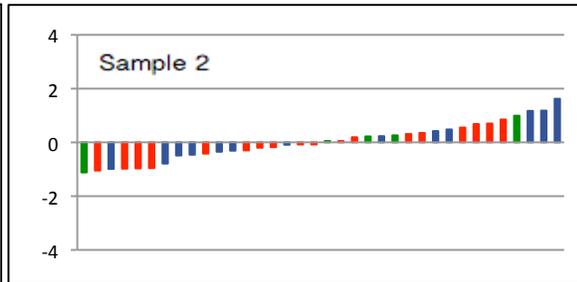
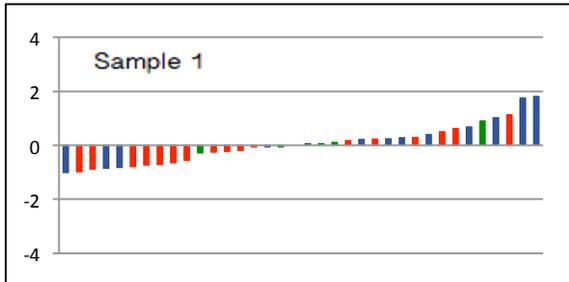
Method	C36-1	C36-2	C36-3	C36-4
HS-GCMS	13	13	13	13
P/T-GCMS	18	18	18	18
GC/MSE	5	5	5	5

All summary stats and the plots below are based on the data excluding any flagged outliers

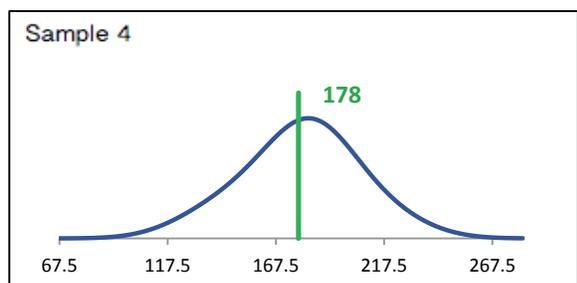
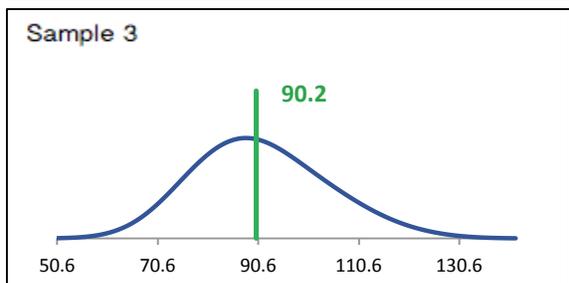
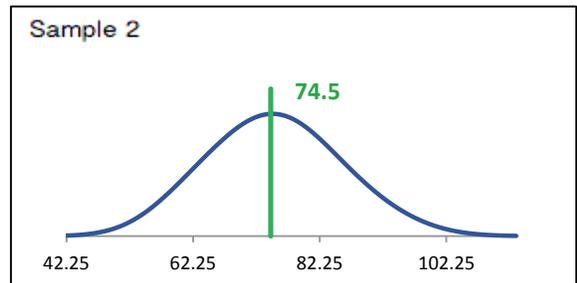
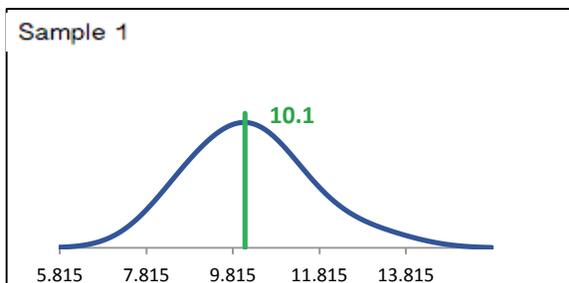


BROMODICHLOROMETHANE

z-Score Plots

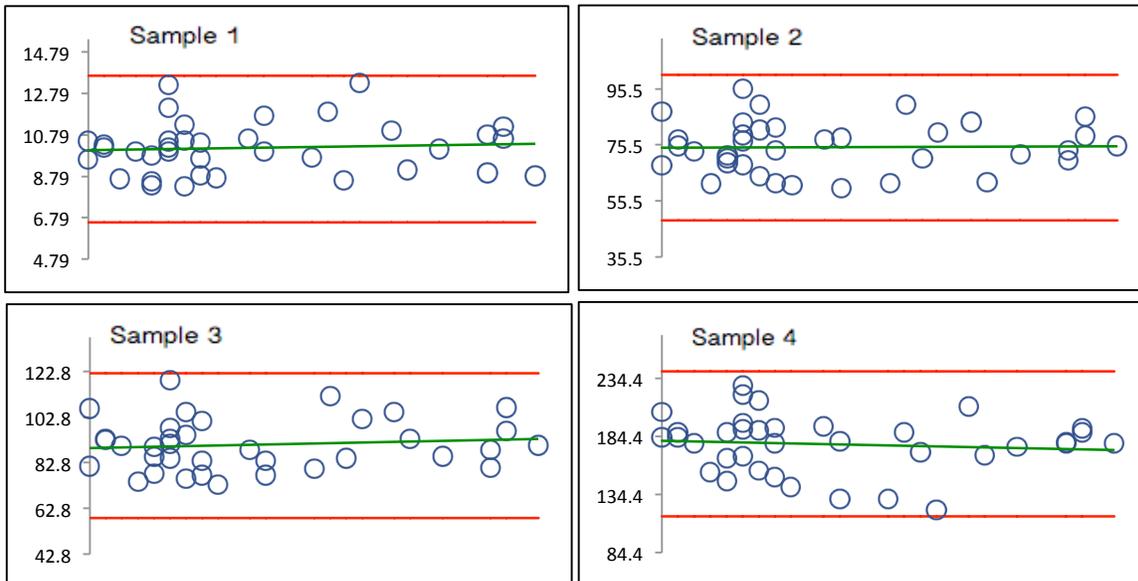


Kernel Density Plots



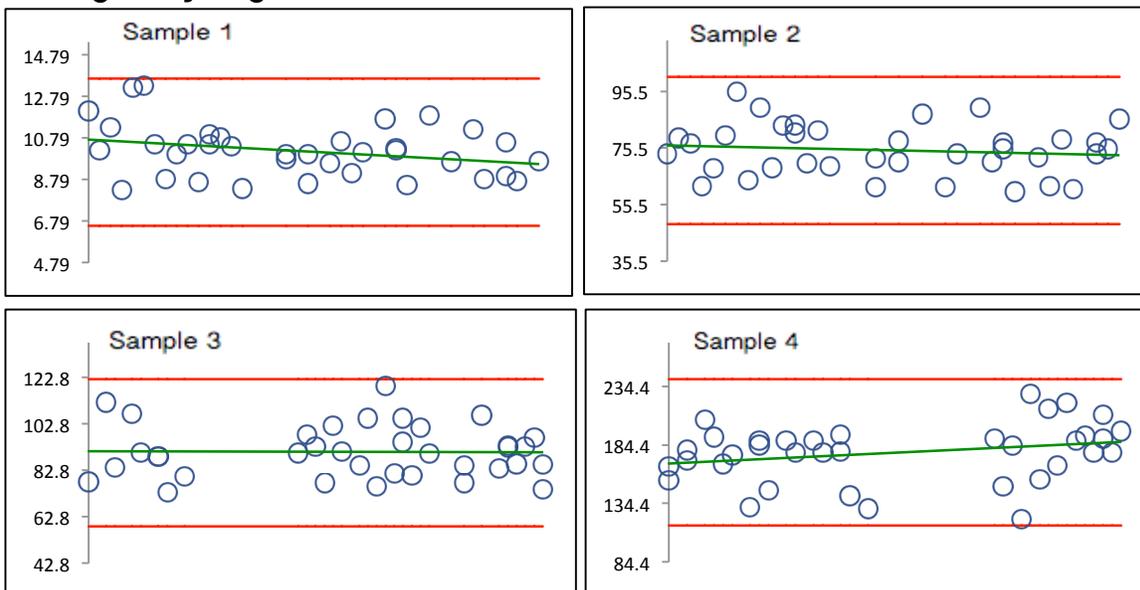
BROMODICHLOROMETHANE

Stability Regression



Reported results (Y-axis) plotted against reported analysis date (X-axis)

Homogeneity Regression



Reported results (Y-axis) plotted against bottling order (X-axis).

BROMOFORM

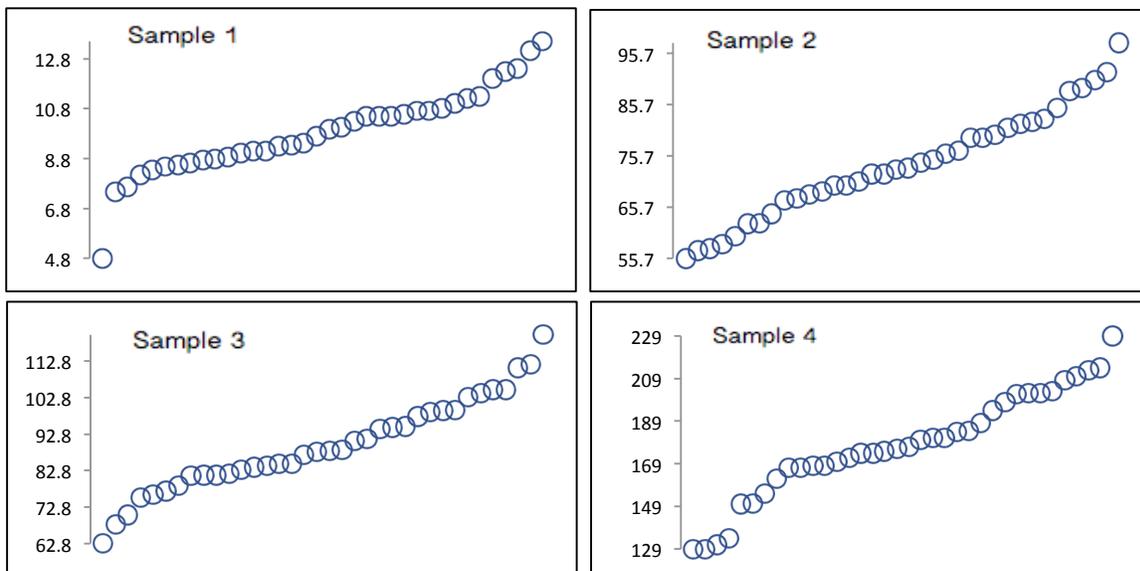
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	36	36	36	36
Median	9.84	73.2	88.1	177
Robust Mean	9.87	73.7	89.5	179
U	0.34	2.40	2.71	5.33
Robust Standard Deviation	1.61	11.5	13.0	25.6
Regression Standard Deviation	1.73	12.9	15.7	31.2
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA)	1.73	12.9	15.7	31.2
Outliers	0	0	0	0
z >3.0	0	0	0	0
2< z <3	2	0	0	0

Methods Used

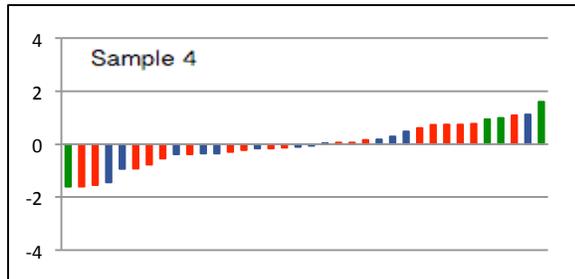
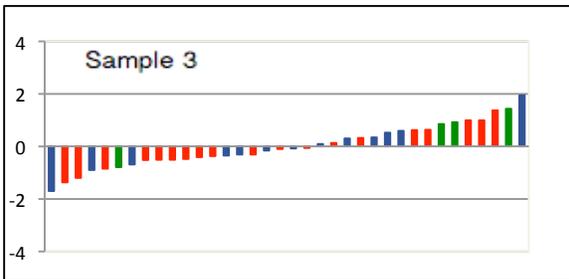
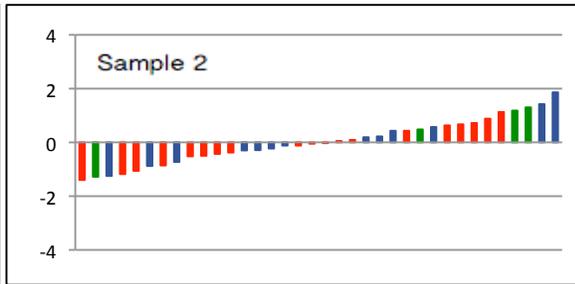
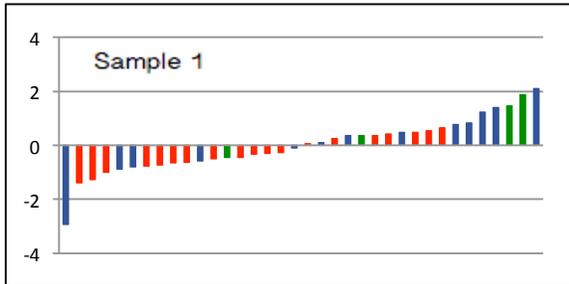
Method	C36-1	C36-2	C36-3	C36-4
HS-GCMS	13	13	13	13
P/T-GCMS	19	19	19	19
GC/MSE	4	4	4	4

All summary stats and the plots below are based on the data excluding any flagged outliers

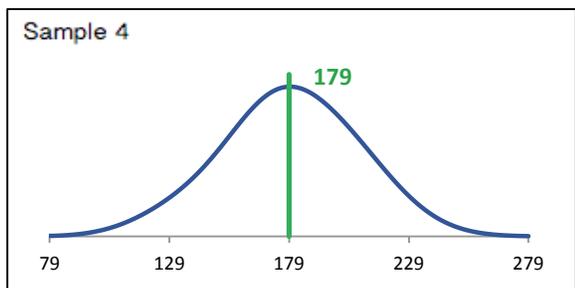
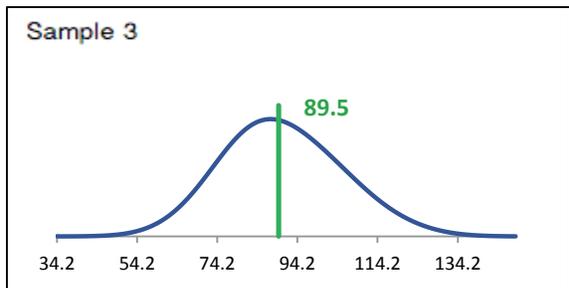
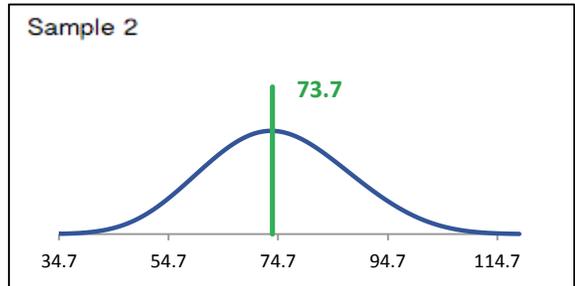
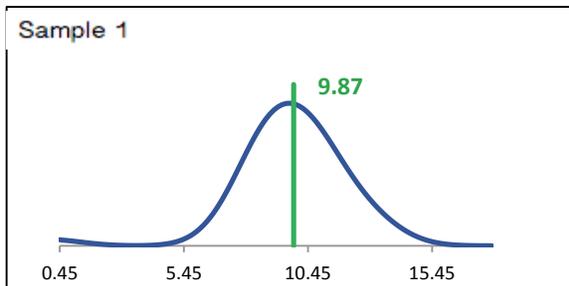


BROMOFORM

z-Score Plots

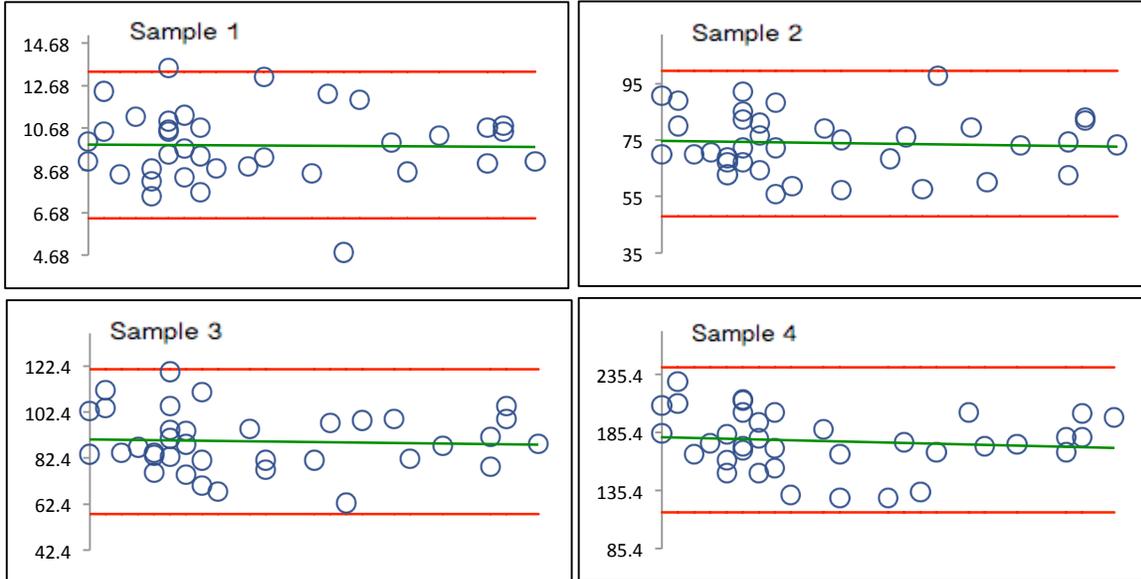


Kernel Density Plots



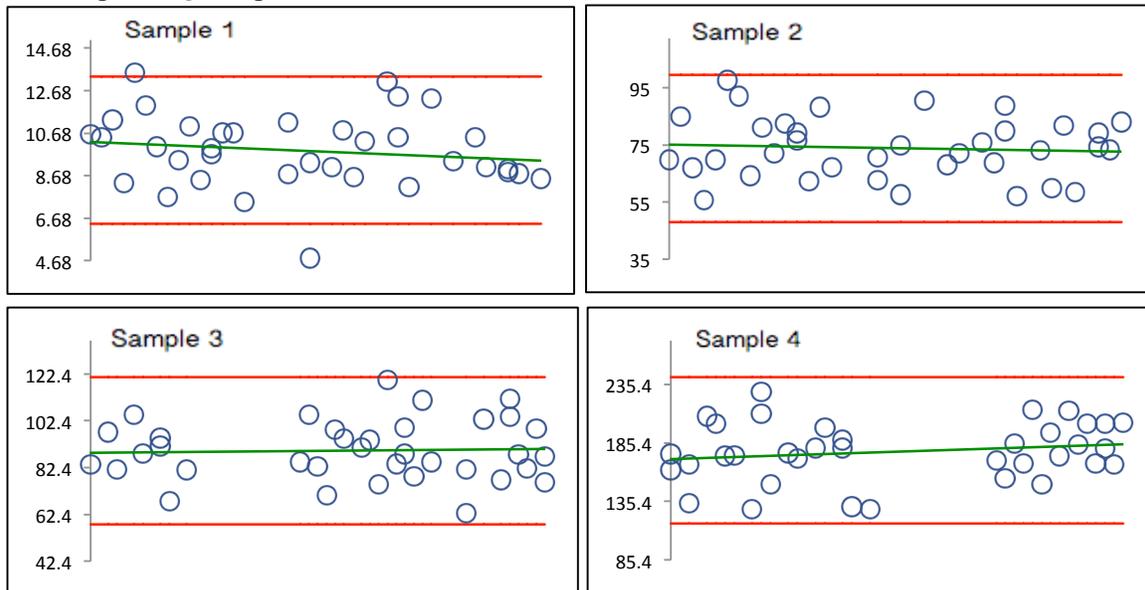
BROMOFORM

Stability Regression



Reported results (Y-axis) plotted against reported analysis date (X-axis)

Homogeneity Regression



Reported results (Y-axis) plotted against bottling order (X-axis).

CARBON TETRACHLORIDE

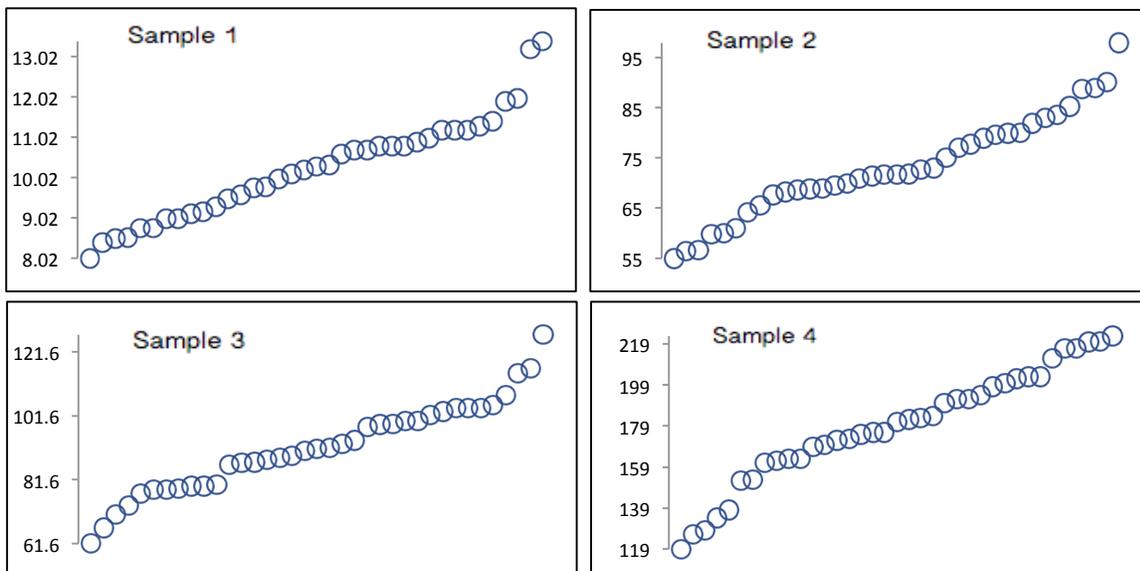
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	37	37	37	37
Median	10.3	71.6	91.2	181
Robust Mean	10.2	73.1	91.6	180
U	0.26	2.20	2.94	6.08
Robust Standard Deviation	1.28	10.7	14.3	29.6
Regression Standard Deviation	1.78	12.8	16.0	31.5
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA)	1.78	12.8	16.0	31.5
Outliers	0	0	0	0
z >3.0	0	0	0	0
2< z <3	0	0	1	0

Methods Used

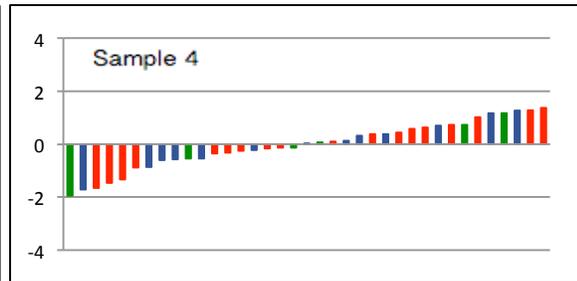
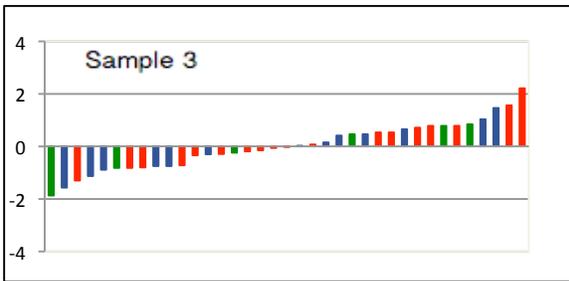
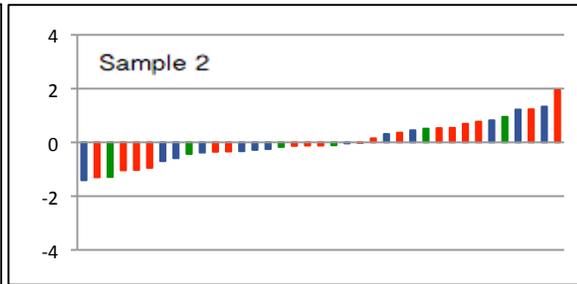
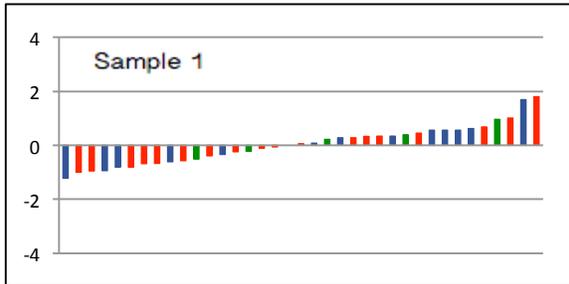
Method	C36-1	C36-2	C36-3	C36-4
HS-GCMS	13	13	13	13
P/T-GCMS	18	18	18	18
GC/MSE	6	6	6	6

All summary stats and the plots below are based on the data excluding any flagged outliers

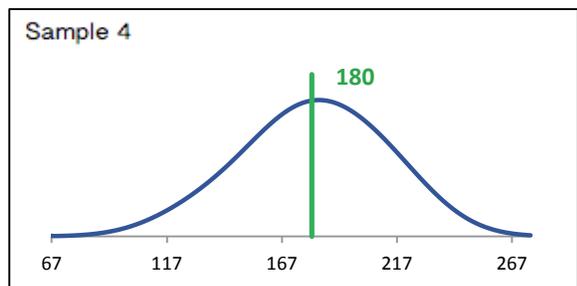
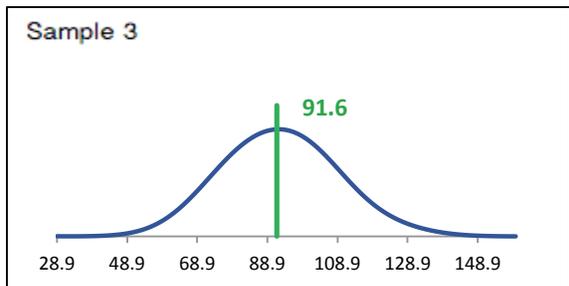
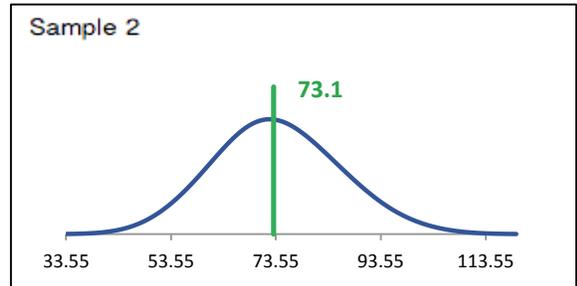
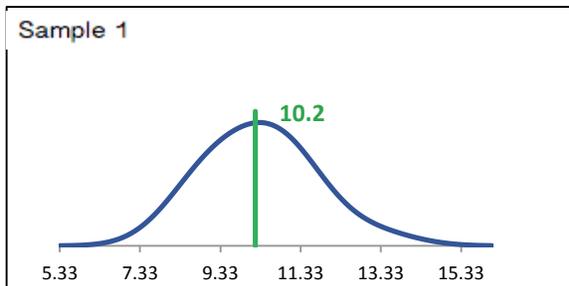


CARBON TETRACHLORIDE

z-Score Plots

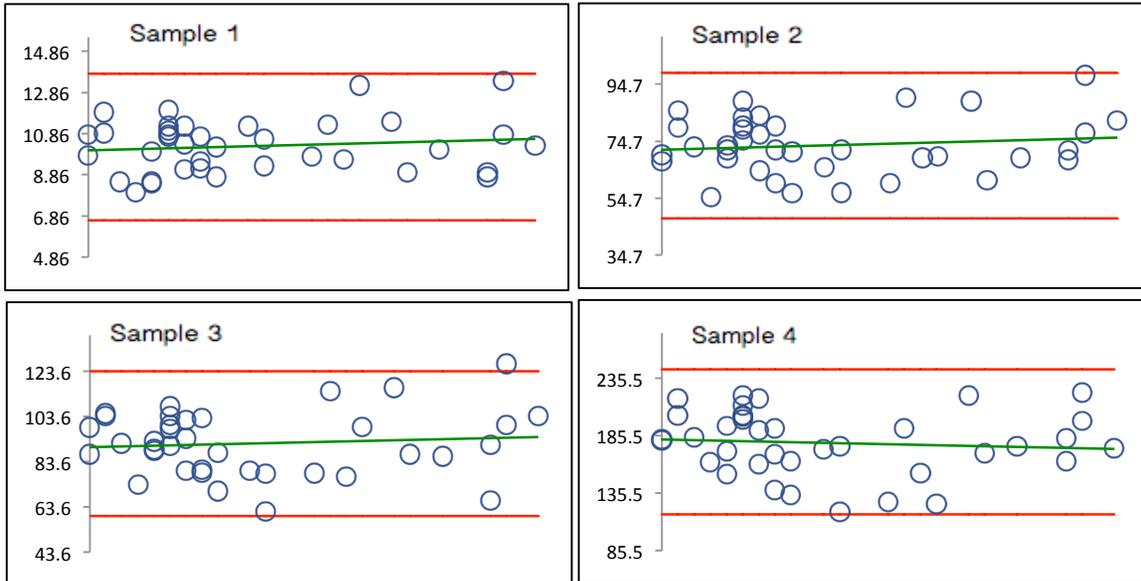


Kernel Density Plots



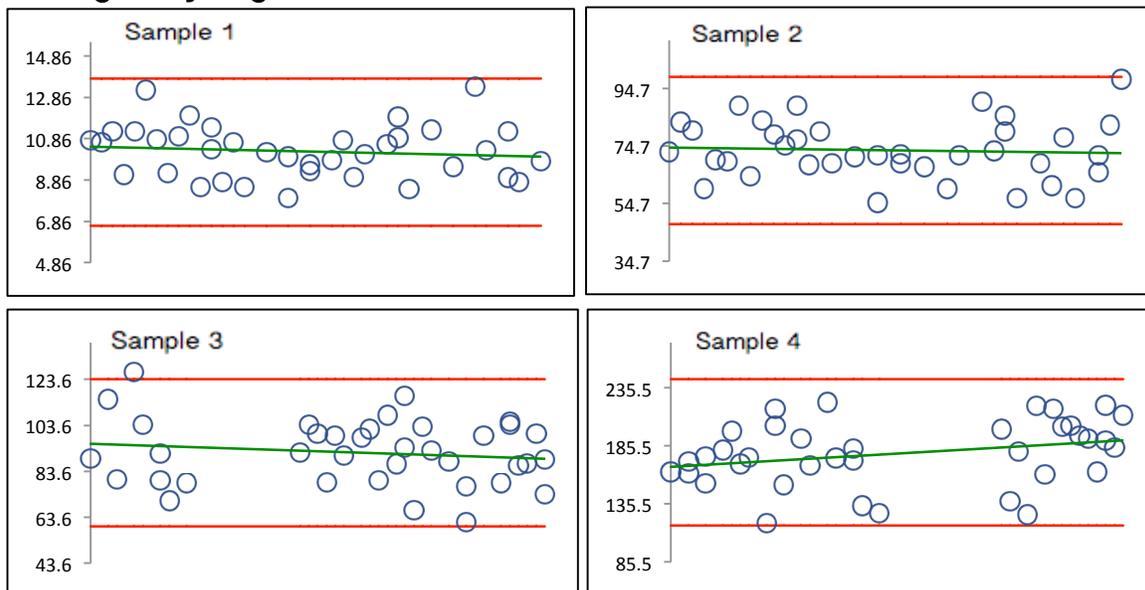
CARBON TETRACHLORIDE

Stability Regression



Reported results (Y-axis) plotted against reported analysis date (X-axis)

Homogeneity Regression



Reported results (Y-axis) plotted against bottling order (X-axis).

CHLOROBENZENE

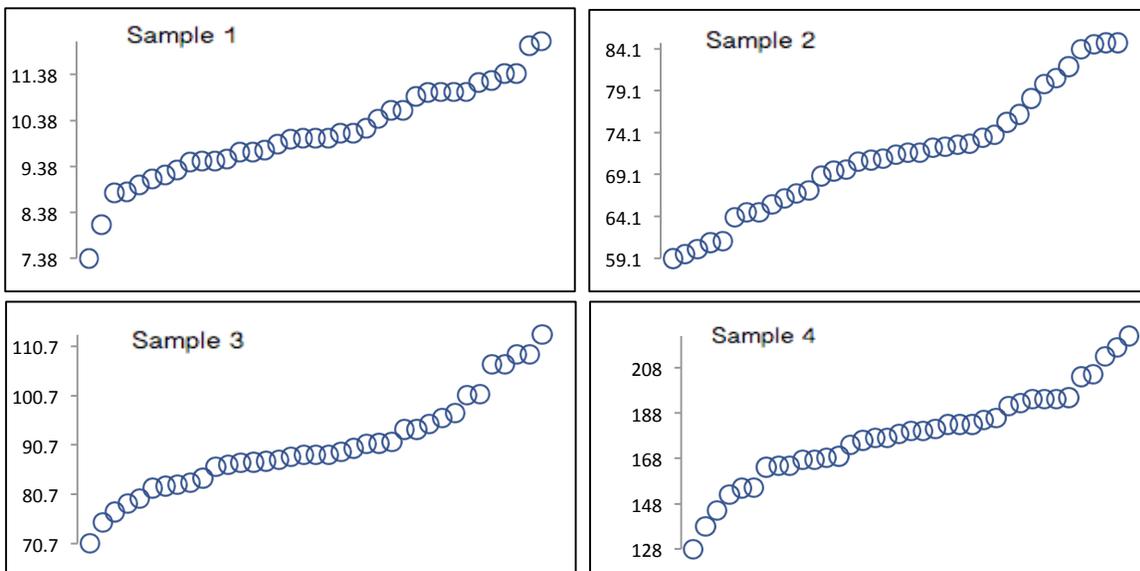
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	37	37	37	37
Median	10.0	71.5	88.7	180
Robust Mean	10.1	71.3	90.0	179
U	0.21	1.67	1.95	4.07
Robust Standard Deviation	1.01	8.1	9.5	19.8
Regression Standard Deviation	1.77	12.5	15.7	31.3
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA)	1.77	12.5	15.7	31.3
Outliers	0	0	0	0
z >3.0	0	0	0	0
2< z <3	0	0	0	0

Methods Used

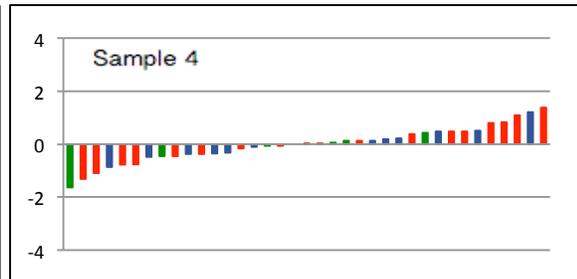
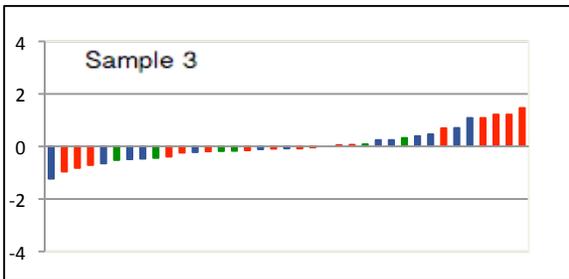
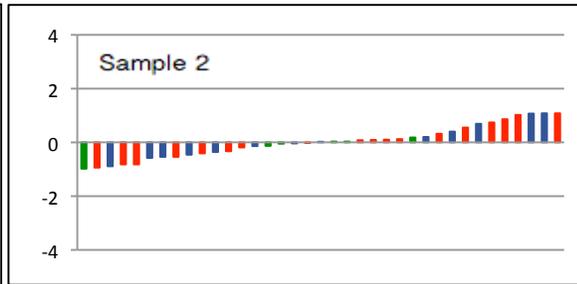
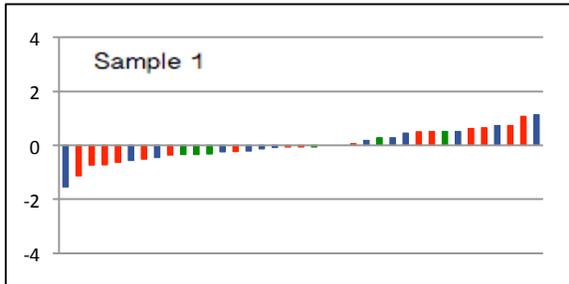
Method	C36-1	C36-2	C36-3	C36-4
HS-GCMS	13	13	13	13
P/T-GCMS	18	18	18	18
GC/MSE	6	6	6	6

All summary stats and the plots below are based on the data excluding any flagged outliers

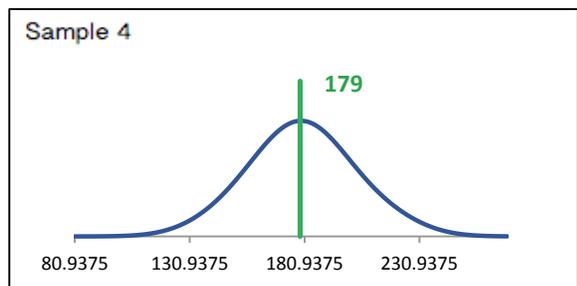
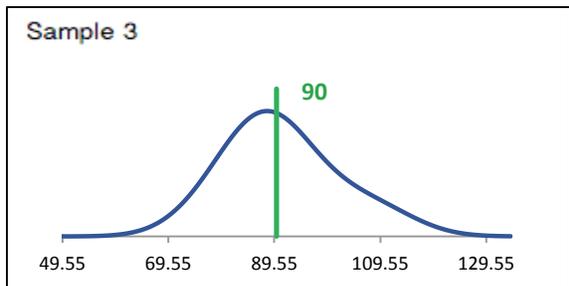
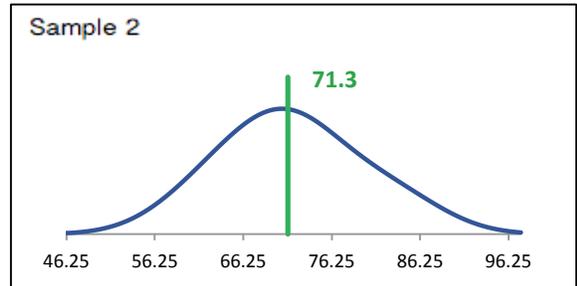
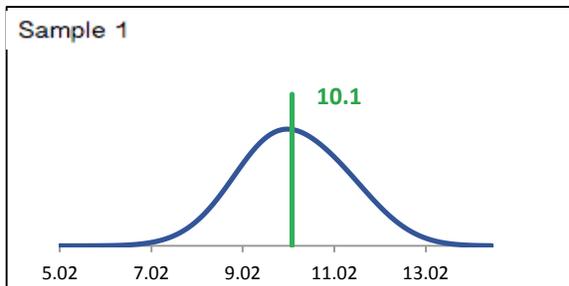


CHLOROBENZENE

z-Score Plots

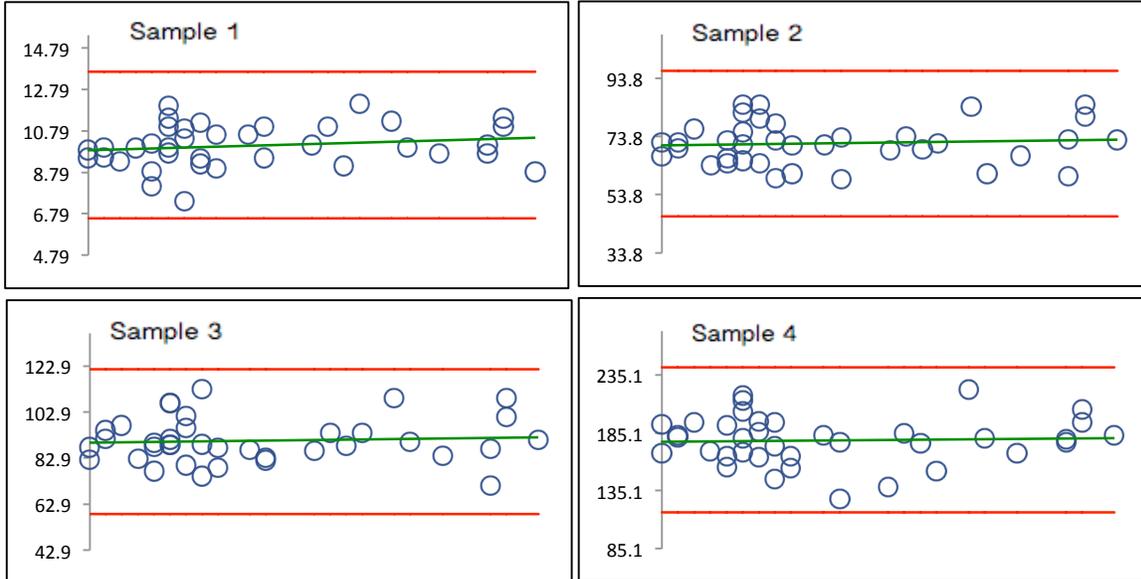


Kernel Density Plots



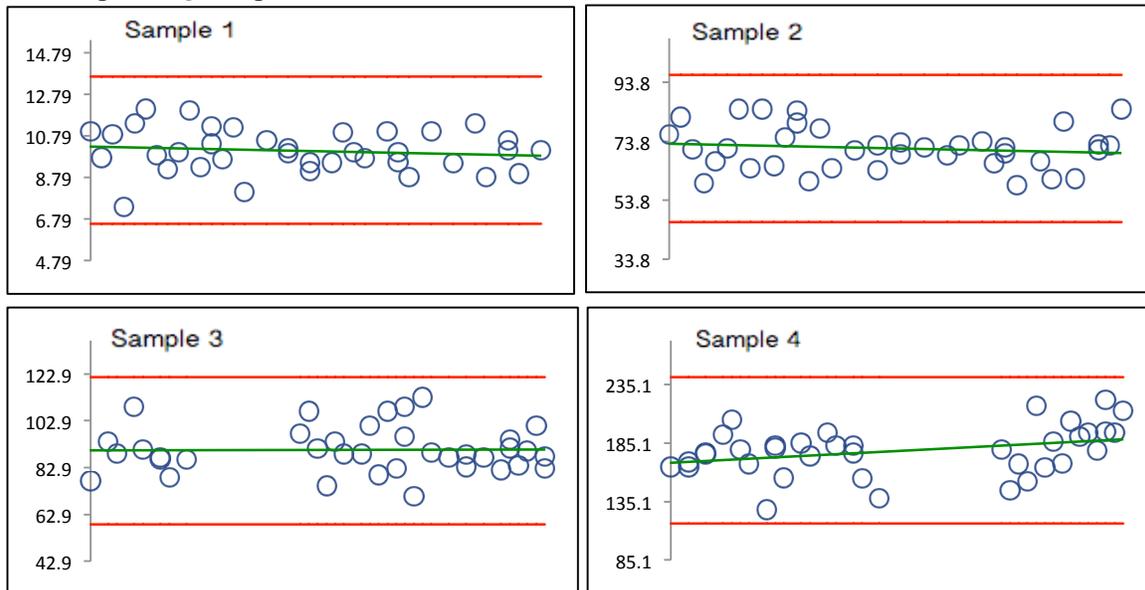
CHLOROBENZENE

Stability Regression



Reported results (Y-axis) plotted against reported analysis date (X-axis)

Homogeneity Regression



Reported results (Y-axis) plotted against bottling order (X-axis).

CHLORODIBROMOMETHANE

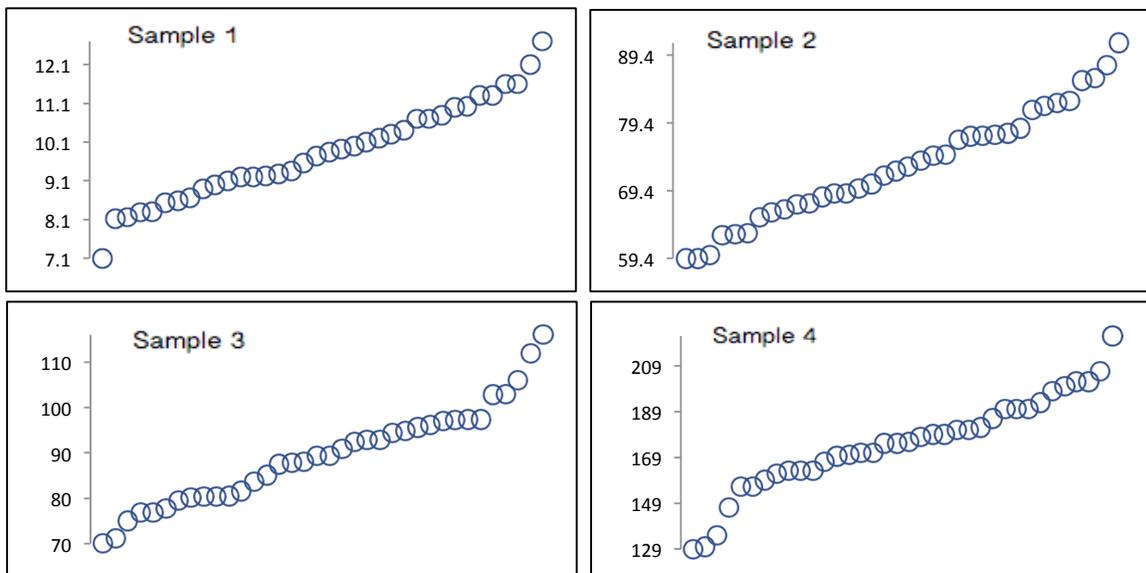
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	36	36	36	36
Median	9.79	72.6	89.3	175
Robust Mean	9.82	73.0	89.0	176
U	0.28	1.91	2.31	4.17
Robust Standard Deviation	1.32	9.2	11.1	20.0
Regression Standard Deviation	1.72	12.8	15.6	30.7
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA)	1.72	12.8	15.6	30.7
Outliers	0	0	0	0
z >3.0	0	0	0	0
2< z <3	0	0	0	0

Methods Used

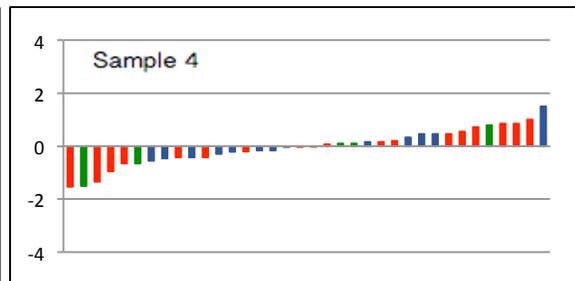
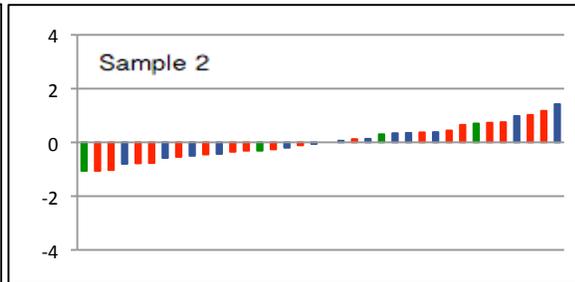
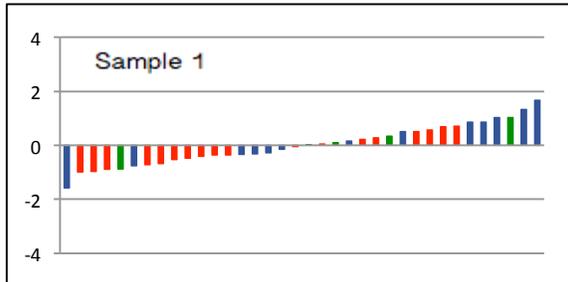
Method	C36-1	C36-2	C36-3	C36-4
HS-GCMS	13	13	13	13
P/T-GCMS	18	18	18	18
GC/MSE	5	5	5	5

All summary stats and the plots below are based on the data excluding any flagged outliers

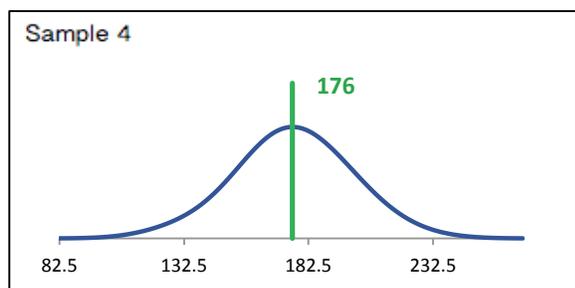
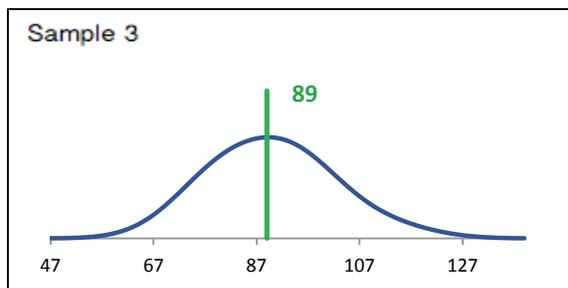
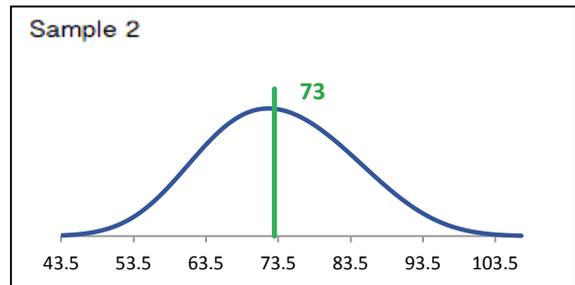
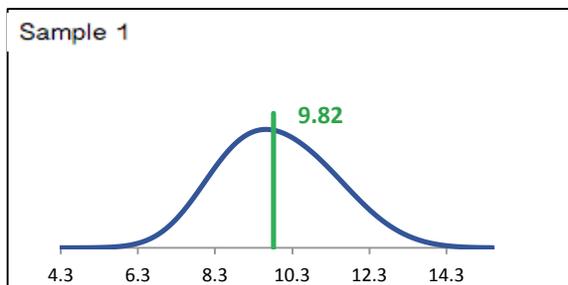


CHLORODIBROMOMETHANE

z-Score Plots

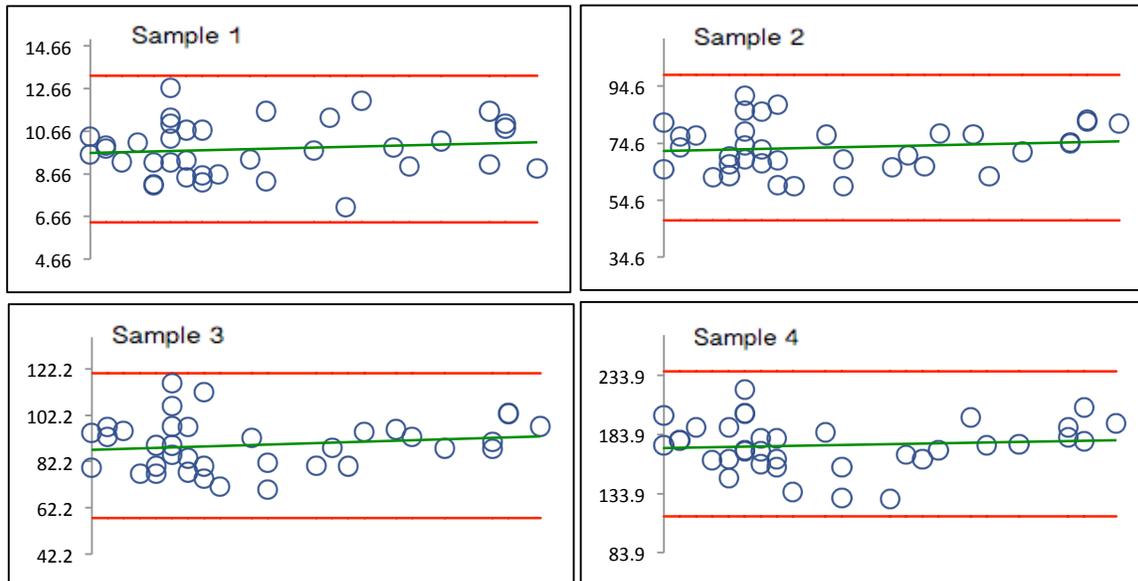


Kernel Density Plots



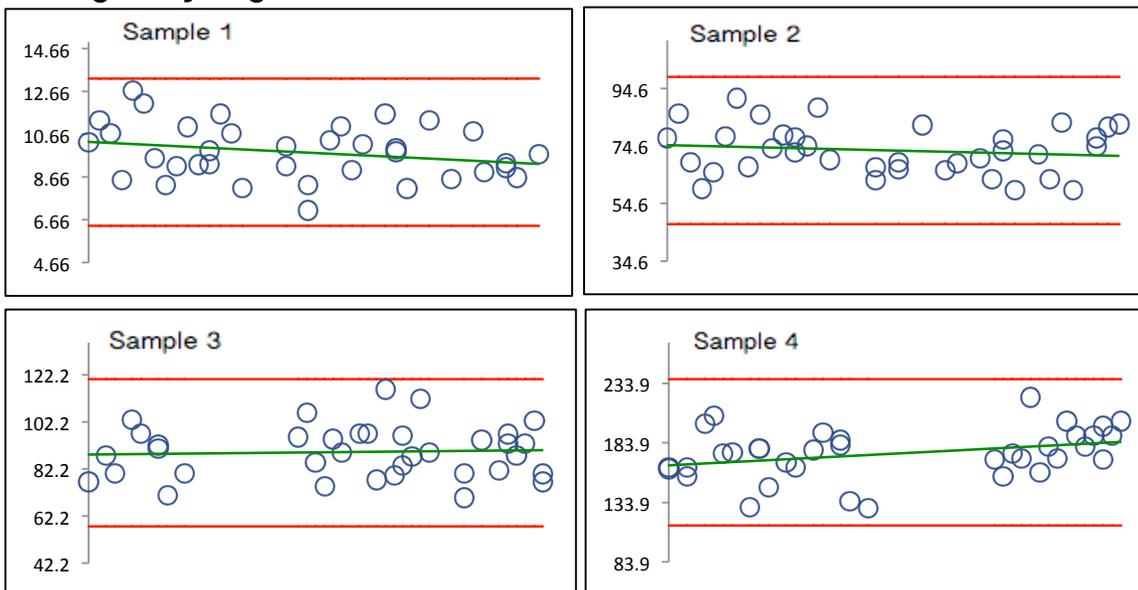
CHLORODIBROMOMETHANE

Stability Regression



Reported results (Y-axis) plotted against reported analysis date (X-axis)

Homogeneity Regression



Reported results (Y-axis) plotted against bottling order (X-axis).

CHLOROFORM

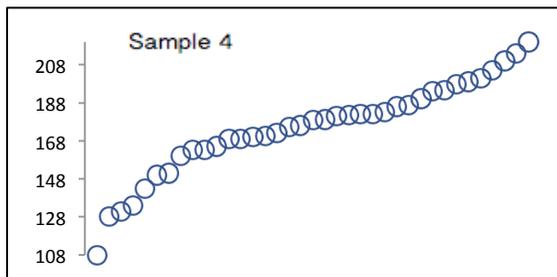
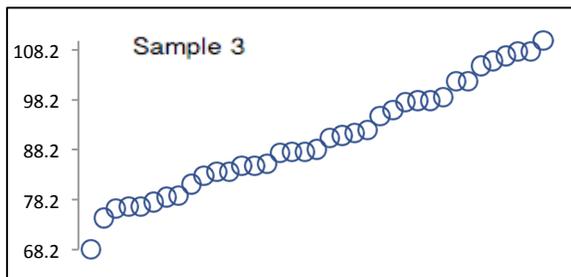
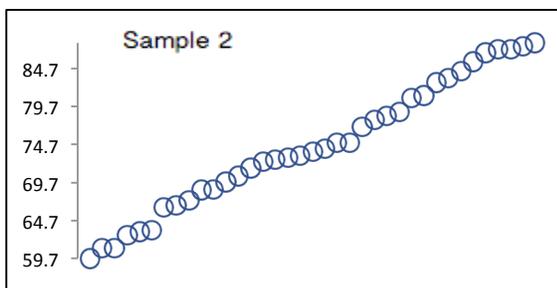
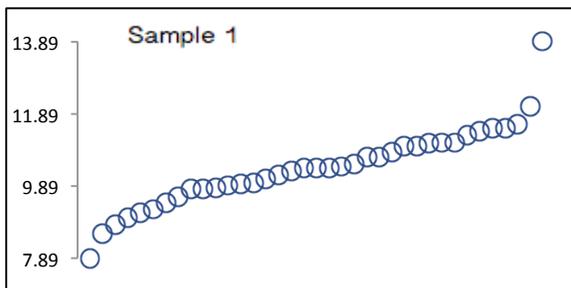
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	37	37	37	37
Median	10.4	73.8	88.3	179
Robust Mean	10.4	74.5	90.4	176
U	0.20	1.98	2.51	4.89
Robust Standard Deviation	1.00	9.65	12.2	23.8
Regression Standard Deviation	1.81	13.0	15.8	30.8
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA)	1.81	13.0	15.8	30.8
Outliers	0	0	0	0
z >3.0	0	0	0	0
2< z <3	0	0	0	1

Methods Used

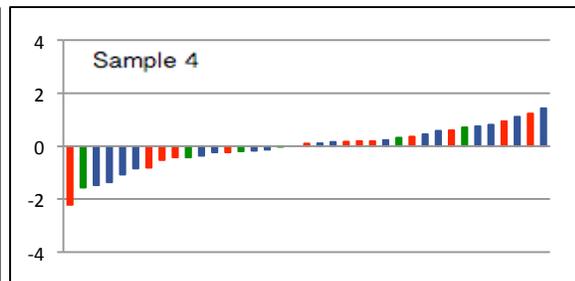
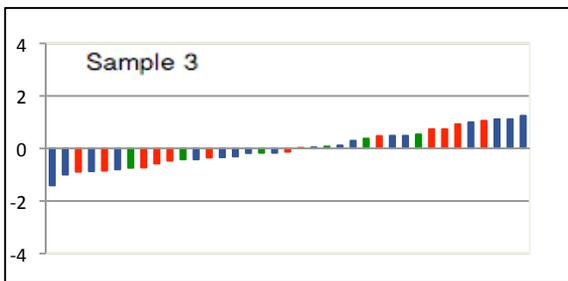
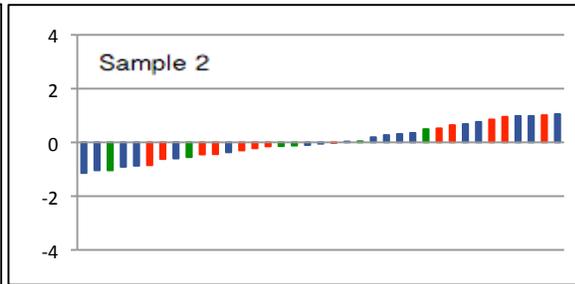
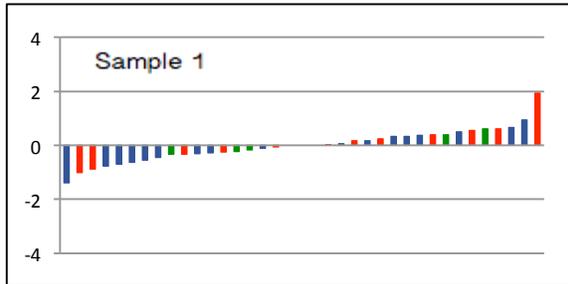
Method	C36-1	C36-2	C36-3	C36-4
P/T-GCMS	18	18	18	18
HS-GCMS	13	13	13	13
GC/MSE	6	6	6	6

All summary stats and the plots below are based on the data excluding any flagged outliers

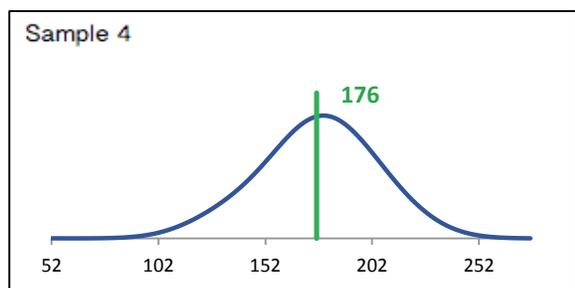
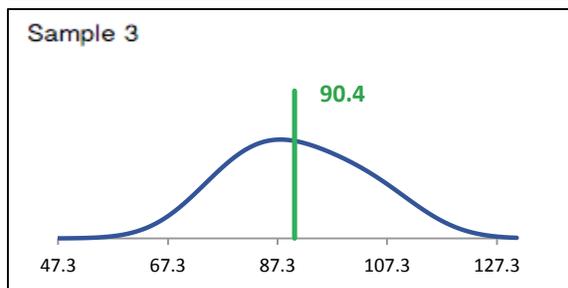
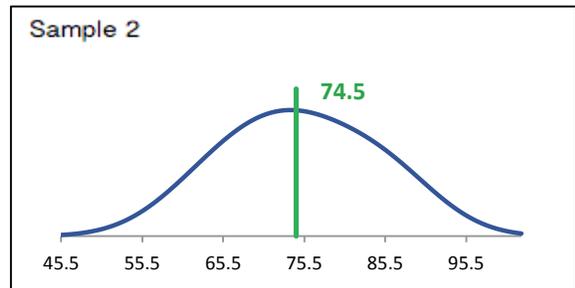
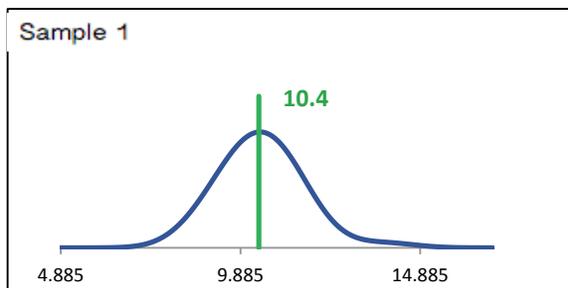


CHLOROFORM

z-Score Plots

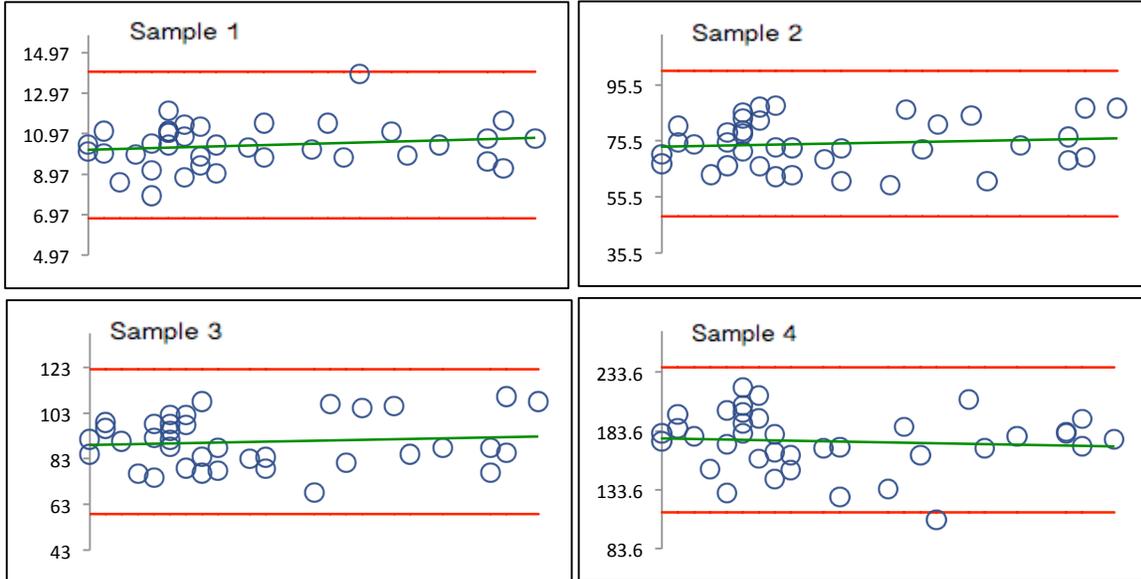


Kernel Density Plots



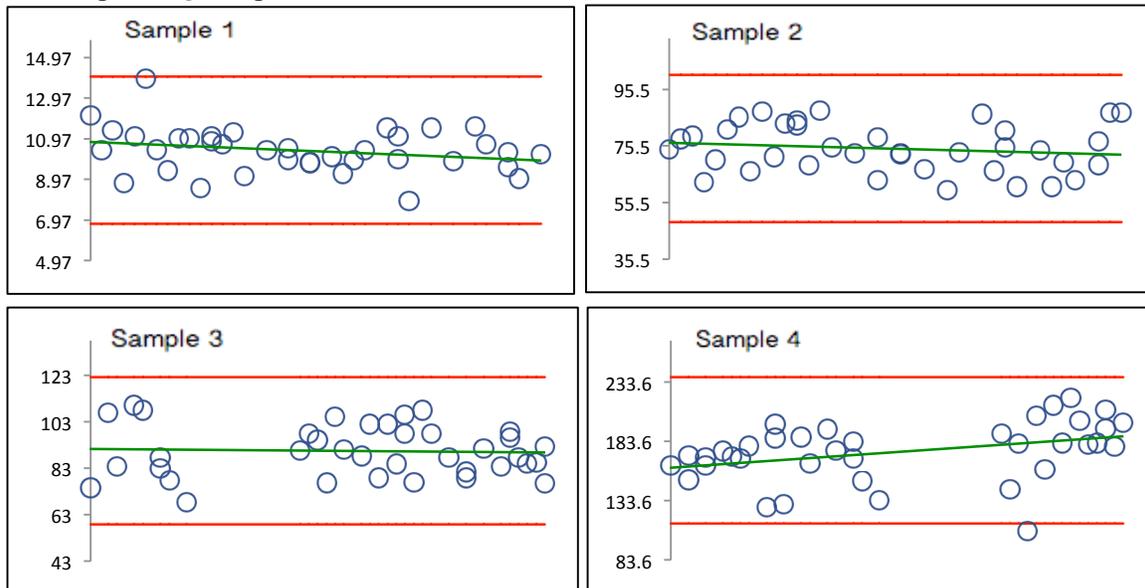
CHLOROFORM

Stability Regression



Reported results (Y-axis) plotted against reported analysis date (X-axis)

Homogeneity Regression



Reported results (Y-axis) plotted against bottling order (X-axis).

CIS-1,2-DICHLOROETHYLENE

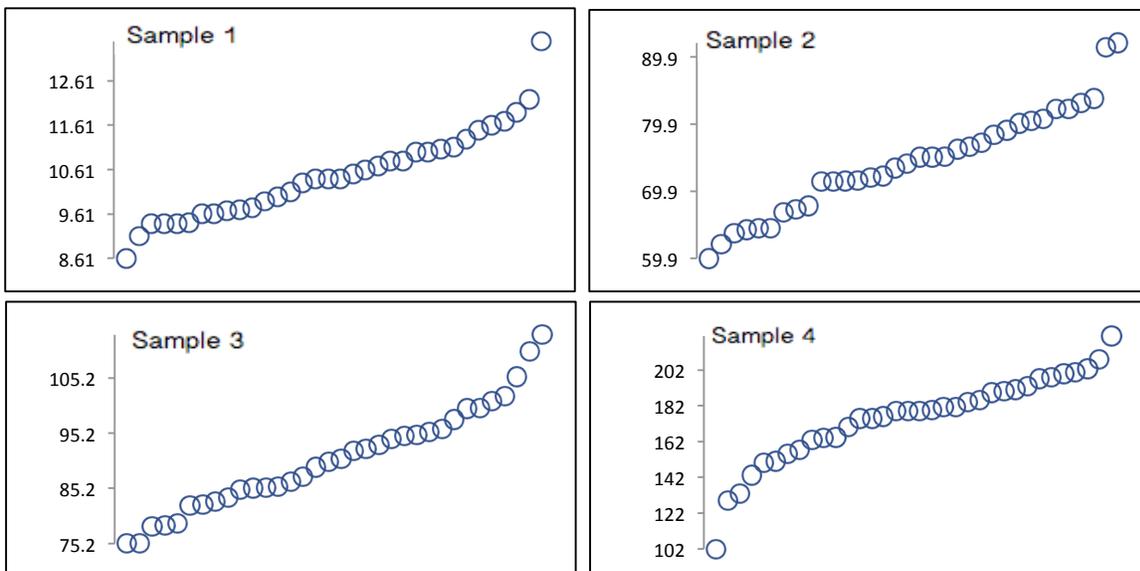
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	34	34	34	34
Median	10.4	74.5	90.3	179
Robust Mean	10.4	74.0	90.3	176
U	0.21	1.71	2.10	4.87
Robust Standard Deviation	0.99	7.99	9.8	22.7
Regression Standard Deviation	1.83	12.9	15.8	30.9
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA)	1.83	12.9	15.8	30.9
Outliers	0	0	0	0
z >3.0	0	0	0	0
2< z <3	0	0	0	1

Methods Used

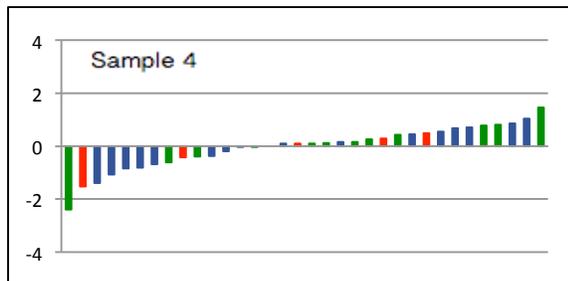
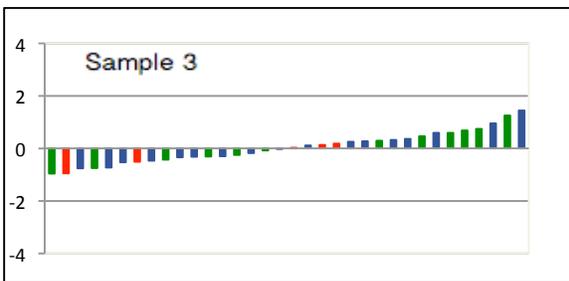
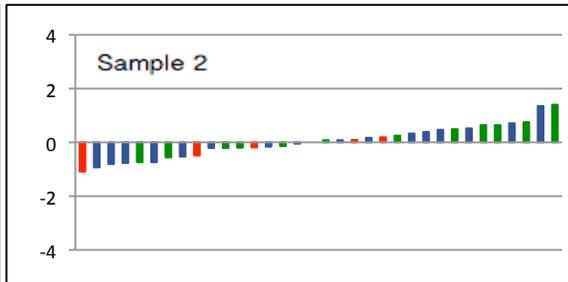
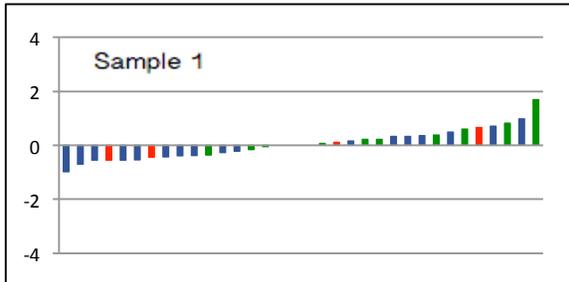
Method	C36-1	C36-2	C36-3	C36-4
P/T-GCMS	17	17	17	17
GC/MSE	5	5	5	5
HS-GCMS	12	12	12	12

All summary stats and the plots below are based on the data excluding any flagged outliers

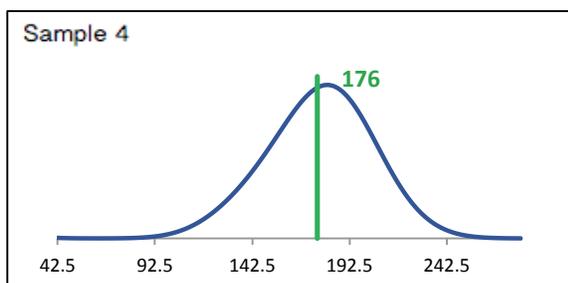
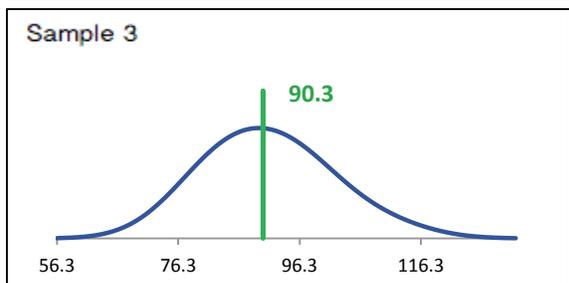
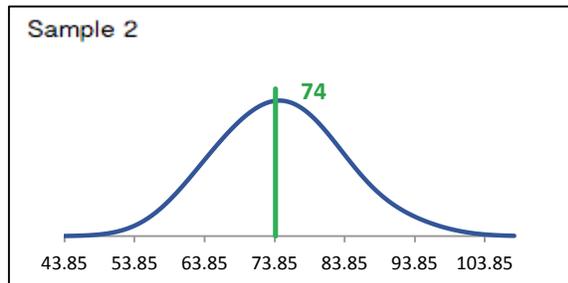
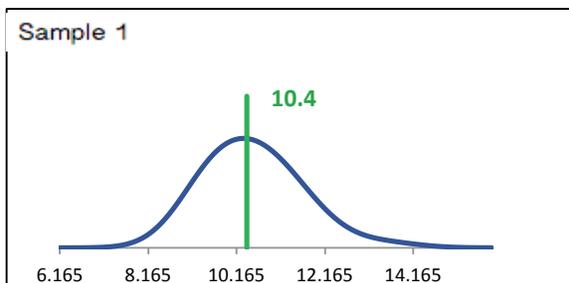


CIS-1,2-DICHLOROETHYLENE

z-Score Plots

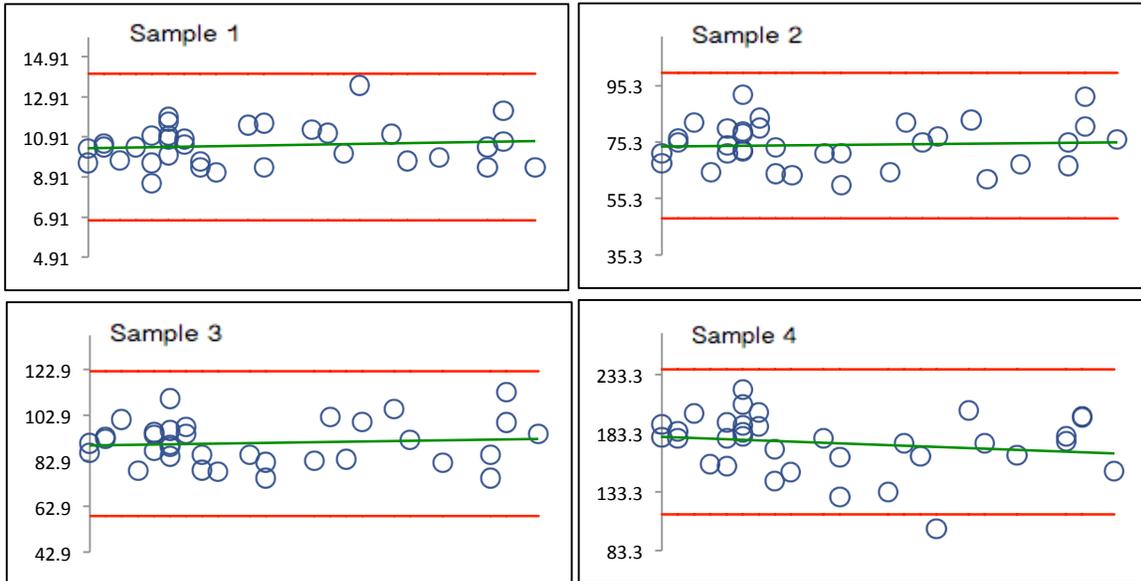


Kernel Density Plots



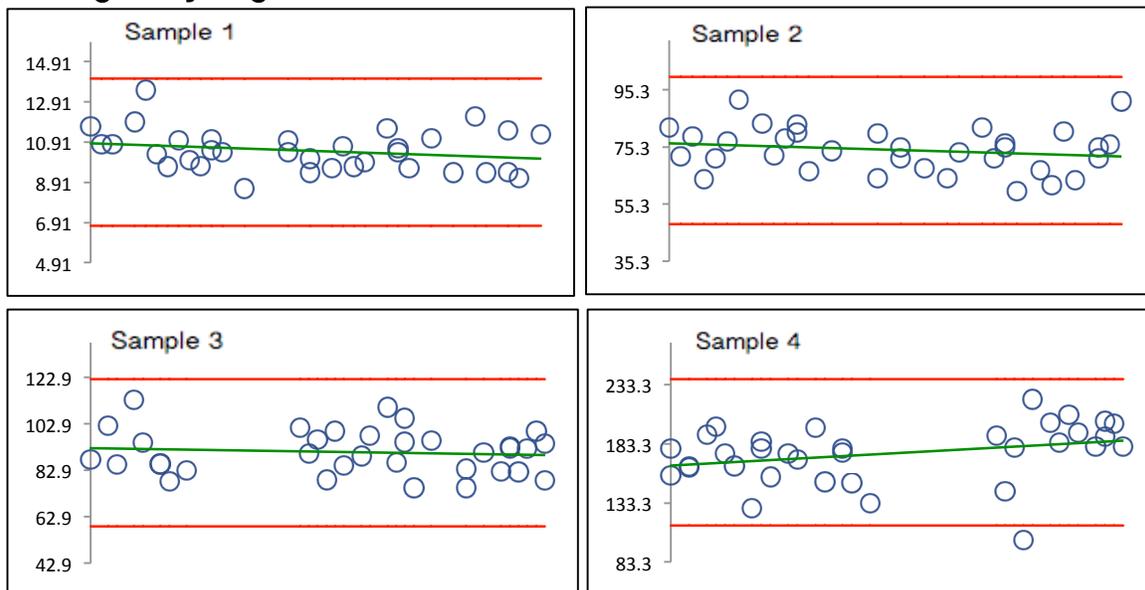
CIS-1,2-DICHLOROETHYLENE

Stability Regression



Reported results (Y-axis) plotted against reported analysis date (X-axis)

Homogeneity Regression



Reported results (Y-axis) plotted against bottling order (X-axis).

CIS-1,3-DICHLOROPROPENE

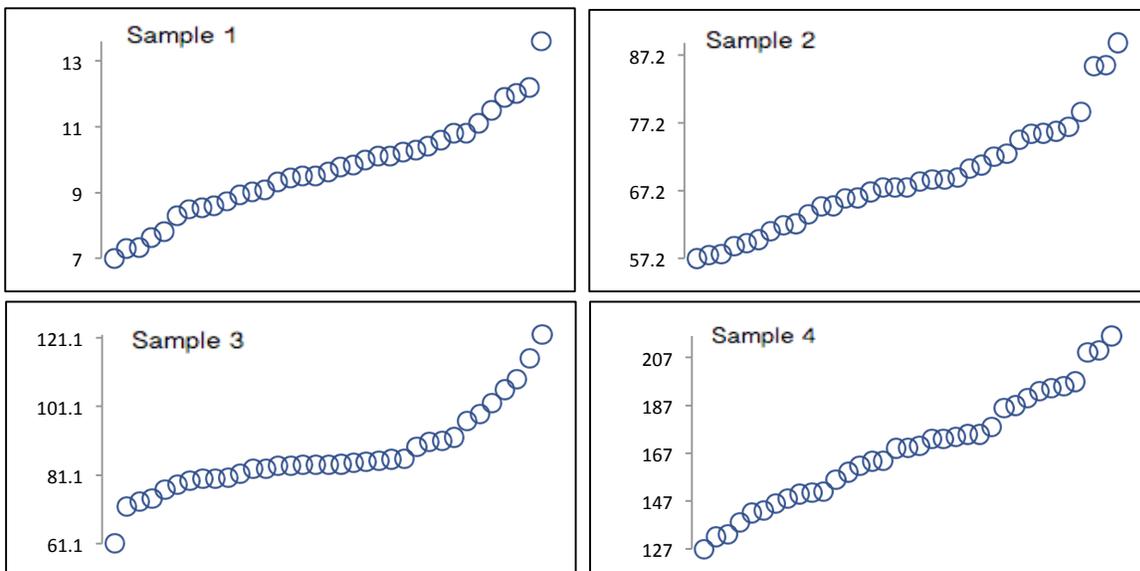
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	35	35	35	35
Median	9.62	67.6	84.1	169
Robust Mean	9.65	68.3	85.8	168
U	0.33	1.65	2.05	5.35
Robust Standard Deviation	1.55	7.81	9.7	25.3
Regression Standard Deviation	1.69	12.0	15.0	29.4
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA)	1.69	12.0	15.0	29.4
Outliers	0	0	0	0
z >3.0	0	0	0	0
2< z <3	1	0	1	0

Methods Used

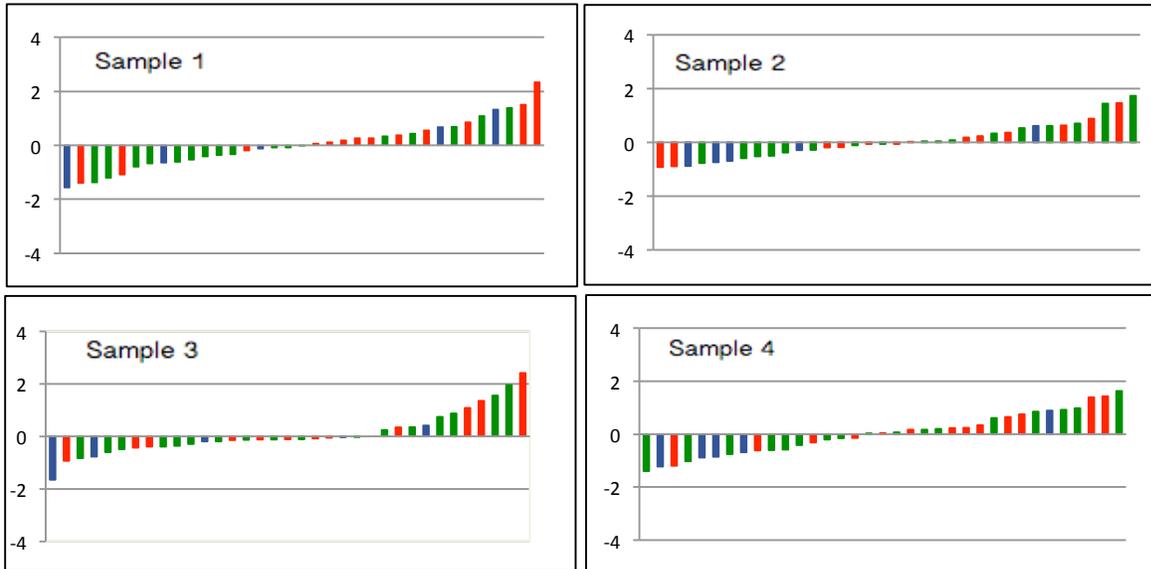
Method	C36-1	C36-2	C36-3	C36-4
GC/MSE	5	5	5	5
HS-GCMS	13	13	13	13
P/T-GCMS	17	17	17	17

All summary stats and the plots below are based on the data excluding any flagged outliers

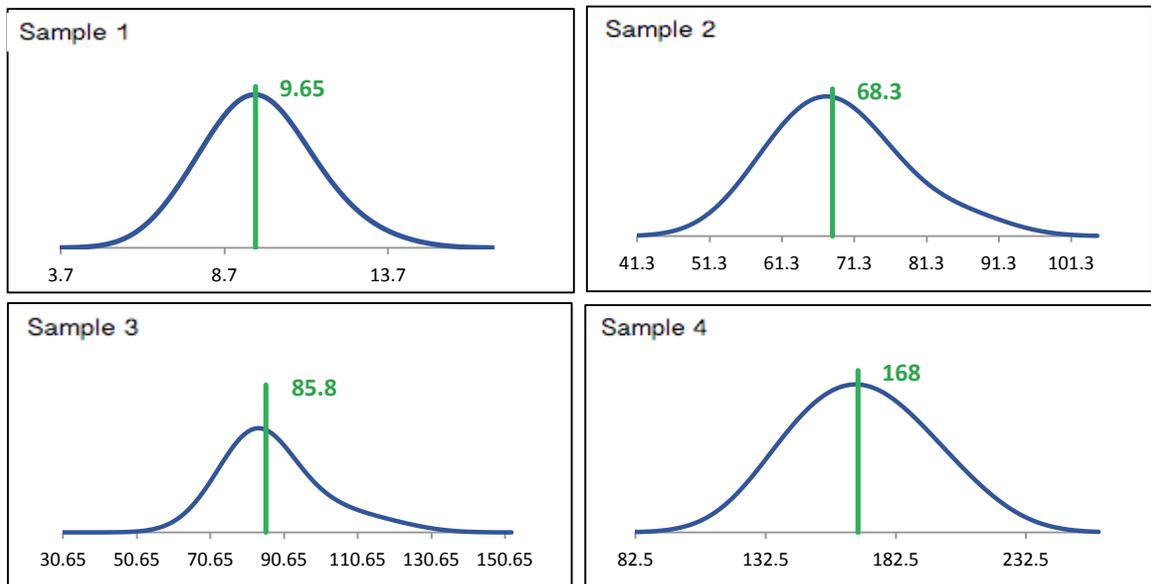


CIS-1,3-DICHLOROPROPENE

z-Score Plots

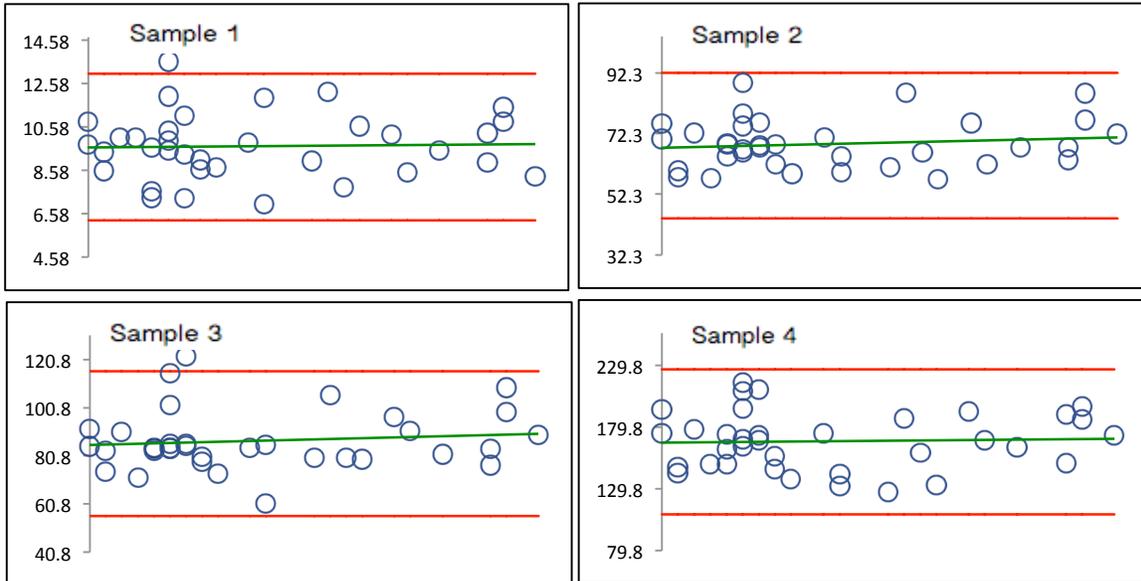


Kernel Density Plots



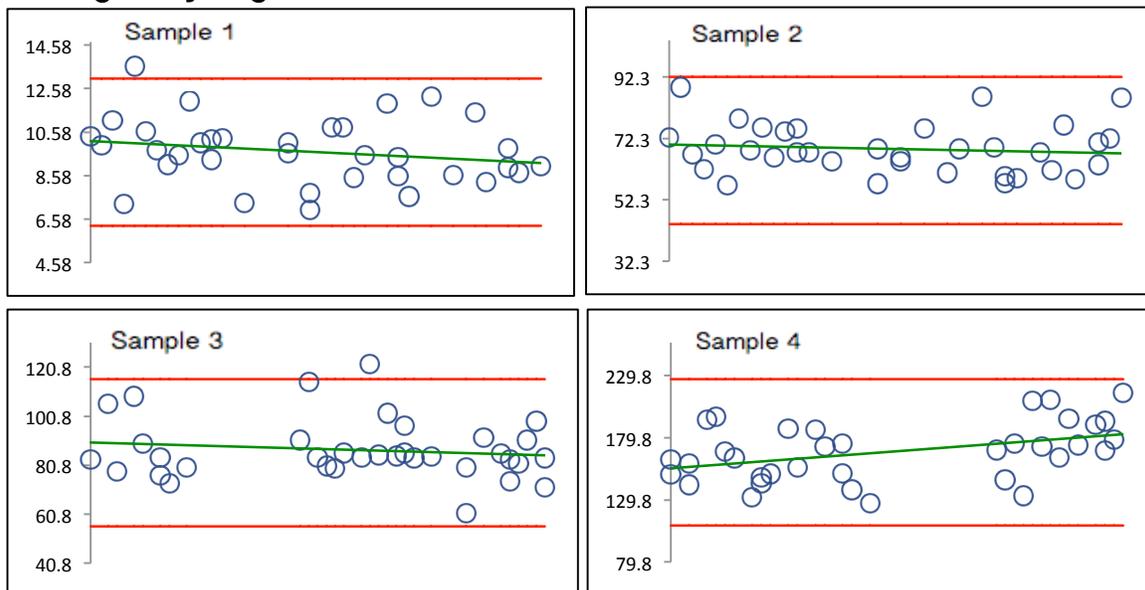
CIS-1,3-DICHLOROPROPENE

Stability Regression



Reported results (Y-axis) plotted against reported analysis date (X-axis)

Homogeneity Regression



Reported results (Y-axis) plotted against bottling order (X-axis).

DICHLOROMETHANE

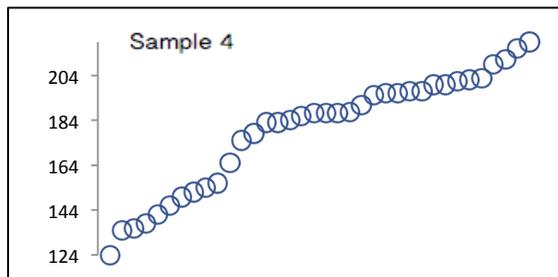
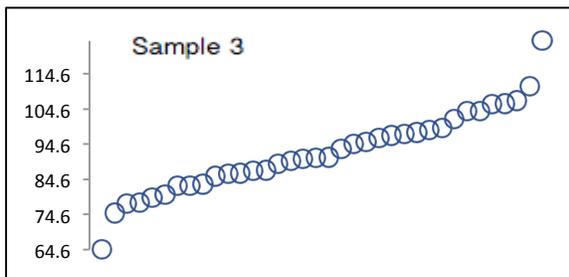
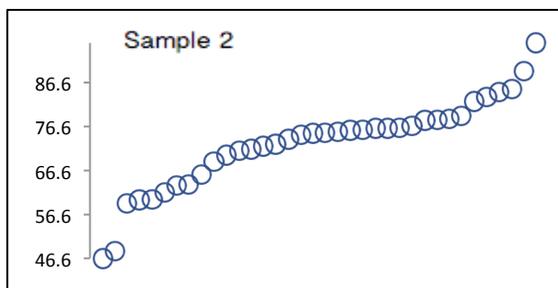
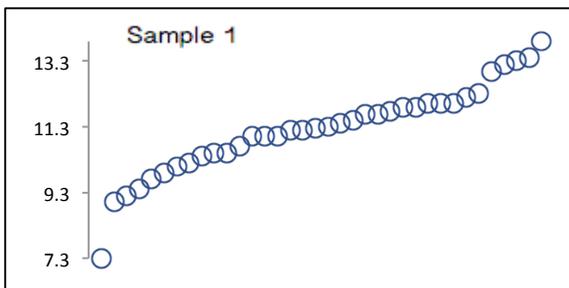
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	36	36	36	36
Median	11.3	75.1	90.7	187
Robust Mean	11.3	73.1	92.0	180
U	0.28	1.96	2.38	5.83
Robust Standard Deviation	1.34	9.40	11.4	28.0
Regression Standard Deviation	2.25	14.6	18.4	36.1
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA)	2.25	14.6	18.4	36.1
Outliers	0	0	0	0
z >3.0	0	0	0	0
2< z <3	0	0	0	0

Methods Used

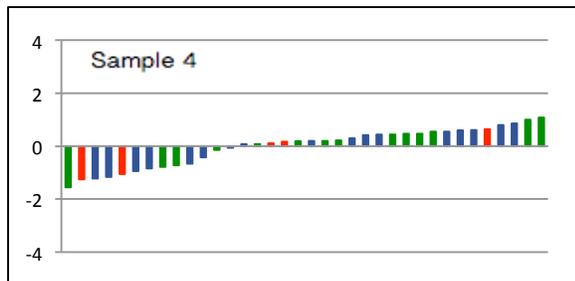
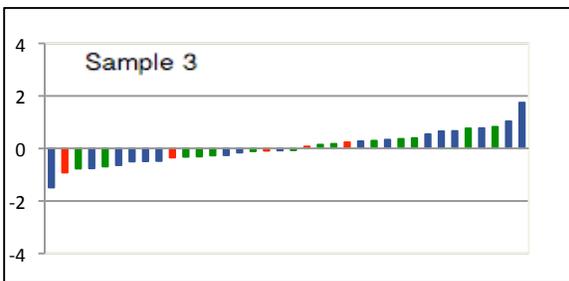
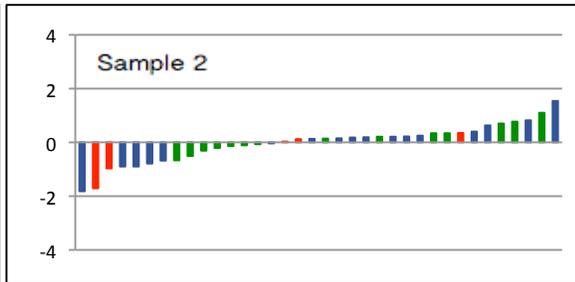
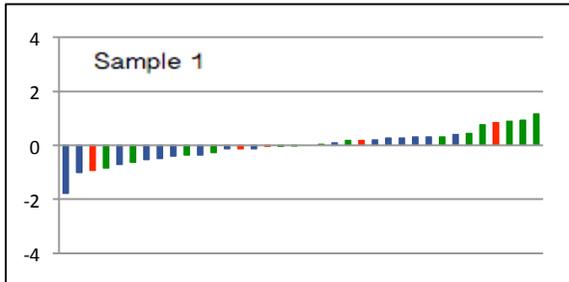
Method	C36-1	C36-2	C36-3	C36-4
P/T-GCMS	17	17	17	17
GC/MSE	5	5	5	5
HS-GCMS	14	14	14	14

All summary stats and the plots below are based on the data excluding any flagged outliers

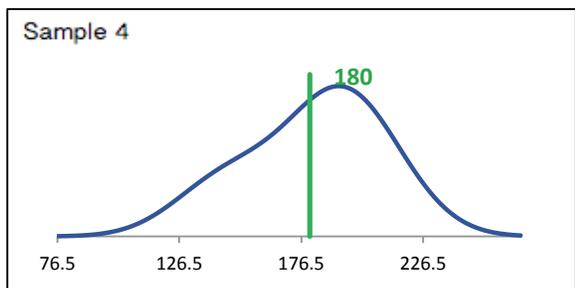
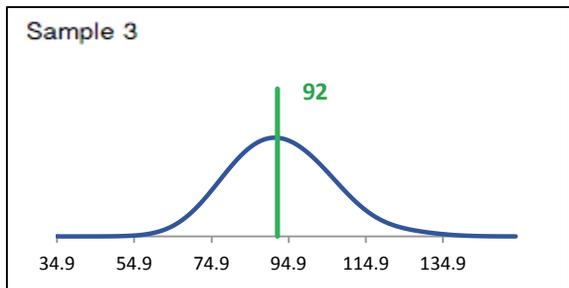
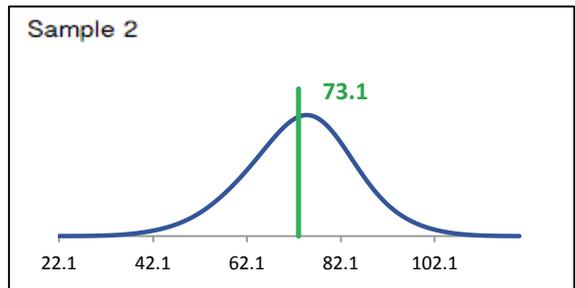
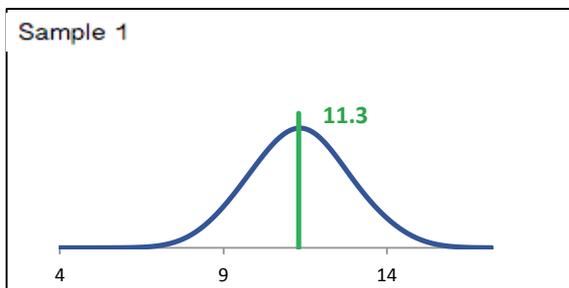


DICHLOROMETHANE

z-Score Plots

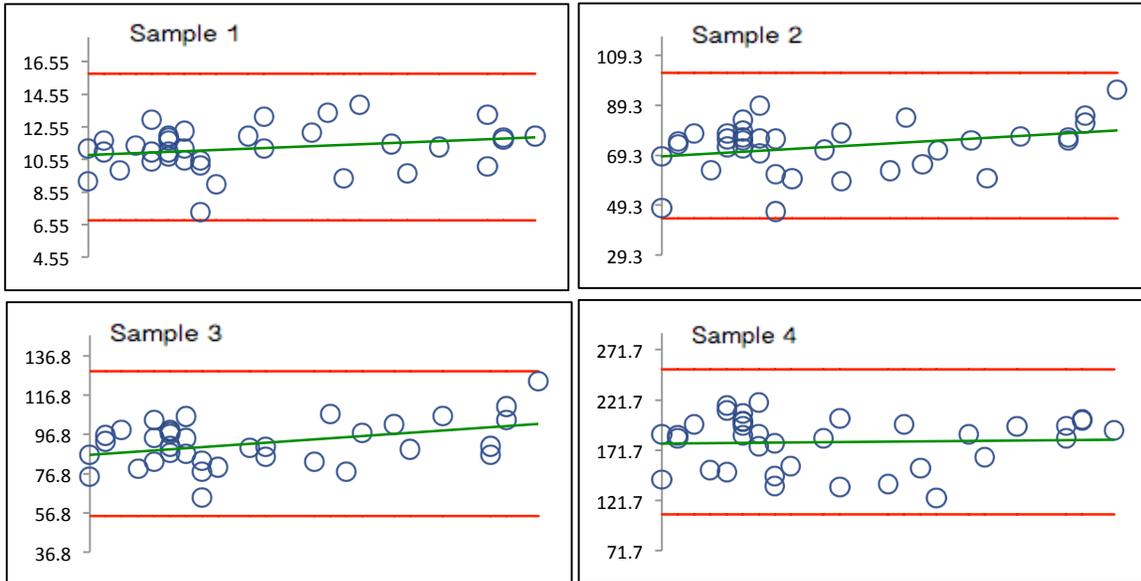


Kernel Density Plots



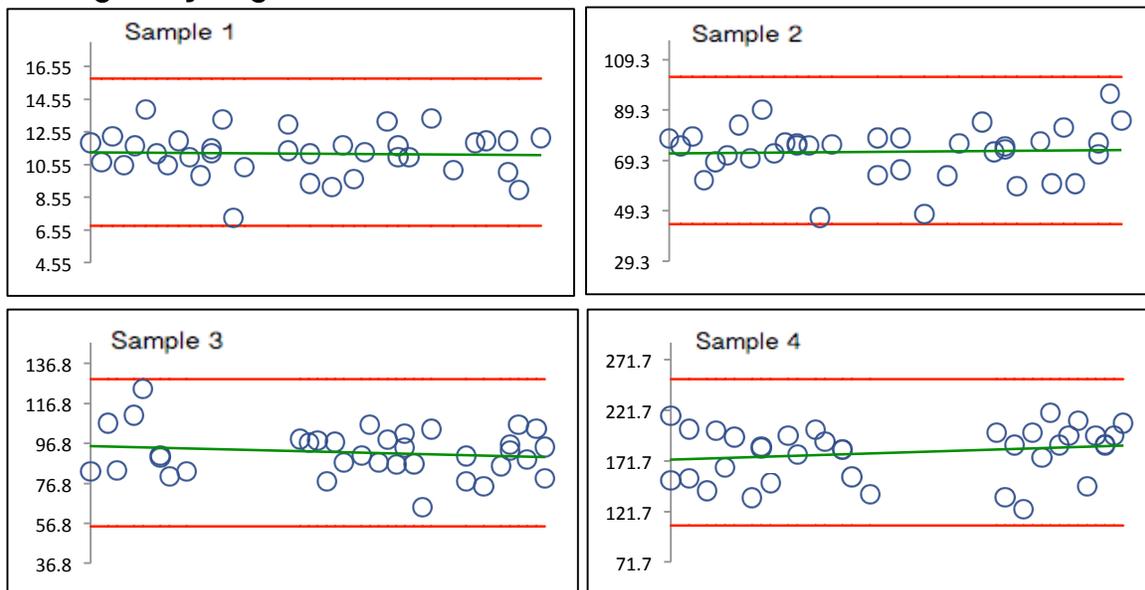
DICHLOROMETHANE

Stability Regression



Reported results (Y-axis) plotted against reported analysis date (X-axis)

Homogeneity Regression



Reported results (Y-axis) plotted against bottling order (X-axis).

ETHYLBENZENE

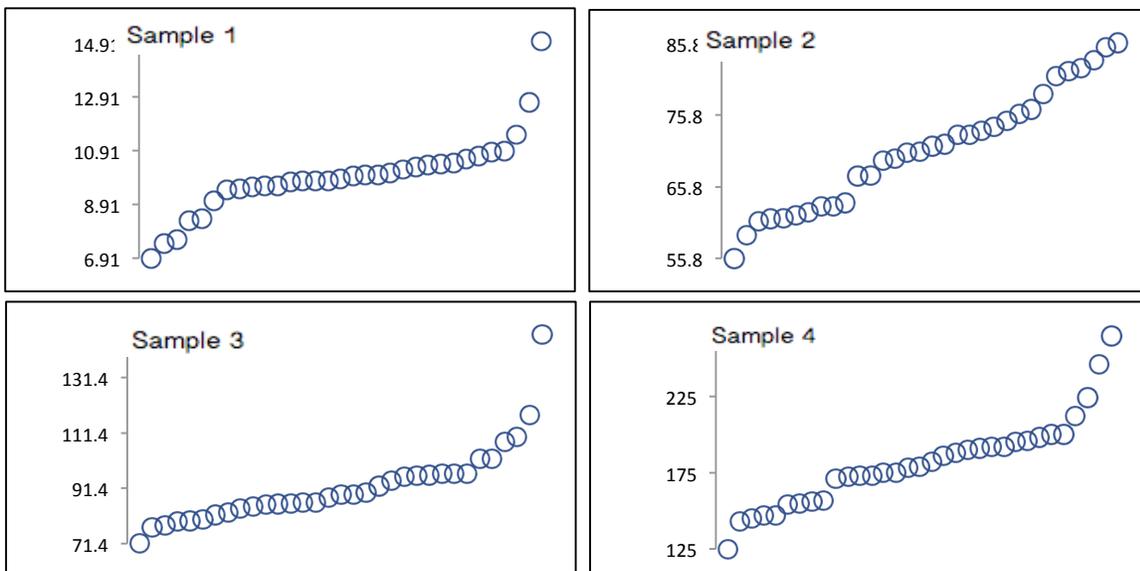
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	32	32	33	33
Median	9.91	71.1	89.0	179
Robust Mean	9.91	70.9	90.2	179
U	0.21	2.04	2.26	5.61
Robust Standard Deviation	0.952	9.22	10.4	25.8
Regression Standard Deviation	1.73	12.4	15.8	31.4
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA)	1.73	12.4	15.8	31.4
Outliers	0	1	0	0
z >3.0	0	0	1	0
2< z <3	1	0	0	2

Methods Used

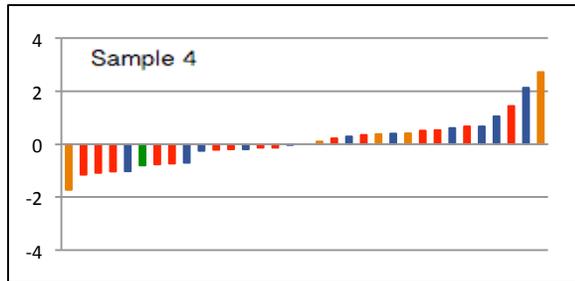
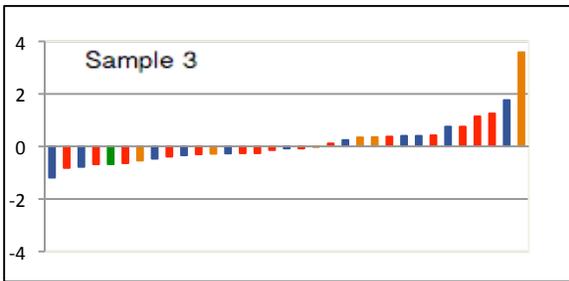
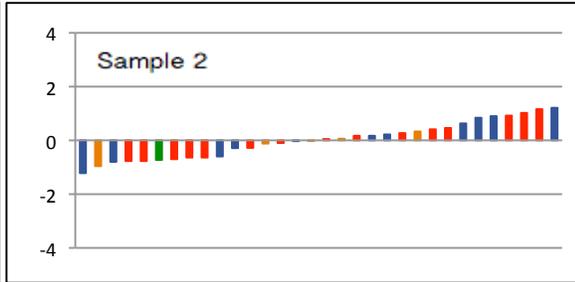
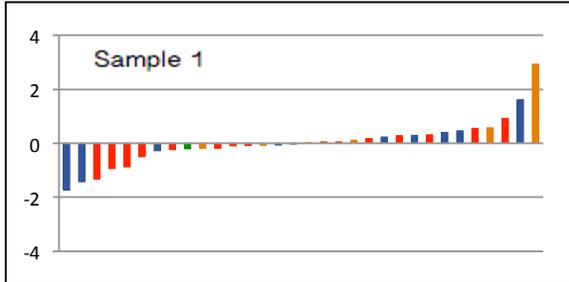
Method	C36-1	C36-2	C36-3	C36-4
HS-GCMS	10	11	11	11
P/T-GCMS	15	15	15	15
GC/MSF/HS	1	1	1	1
GC/MSE	6	5	6	6

All summary stats and the plots below are based on the data excluding any flagged outliers

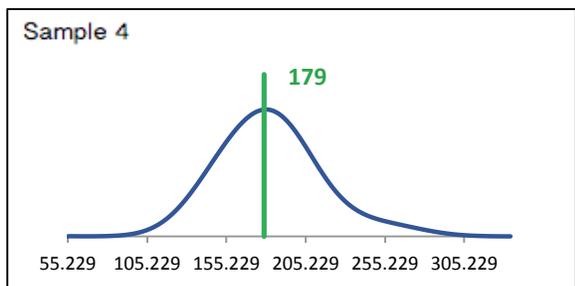
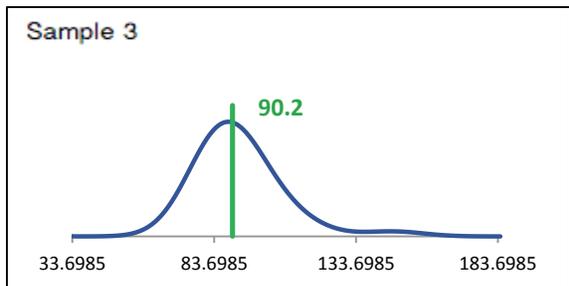
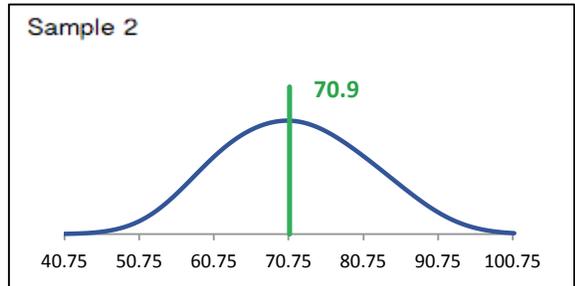
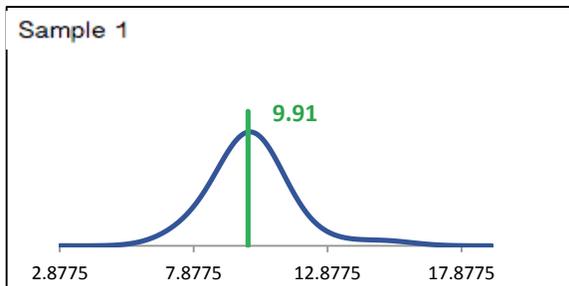


ETHYLBENZENE

z-Score Plots

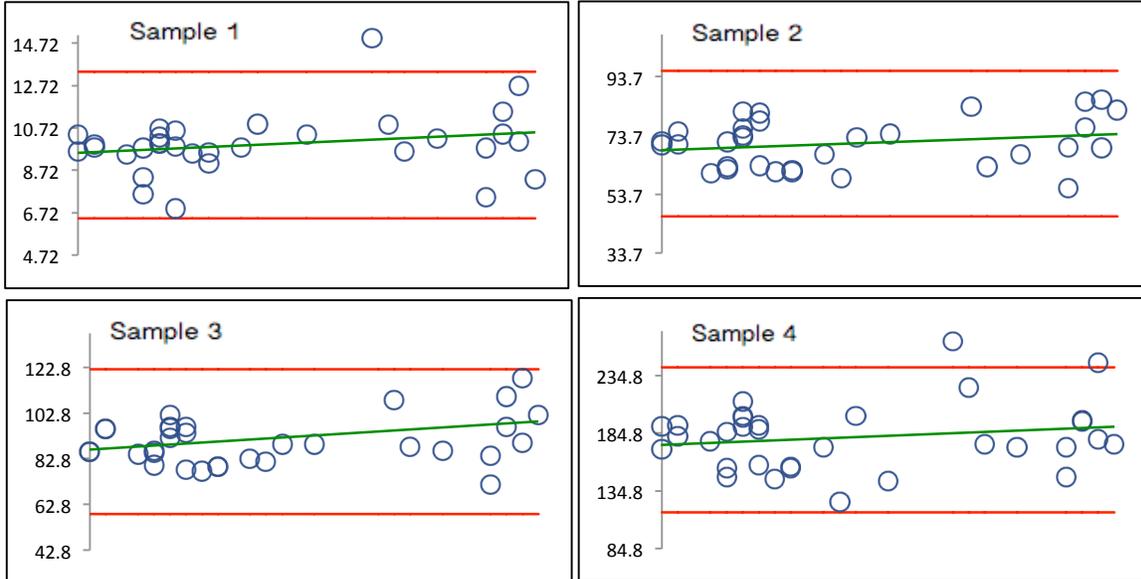


Kernel Density Plots



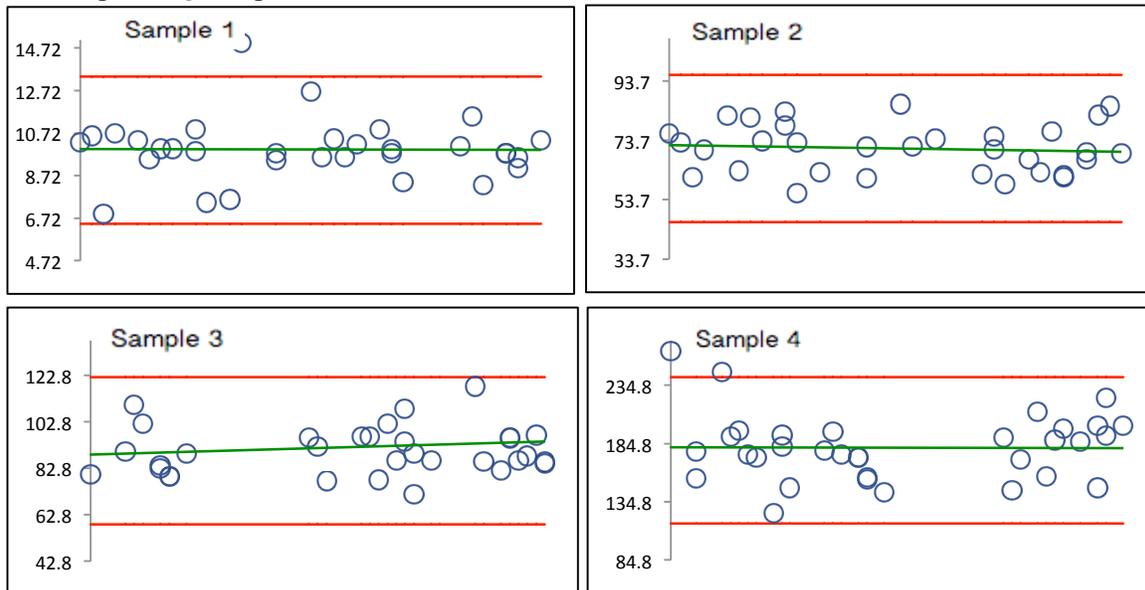
ETHYLBENZENE

Stability Regression



Reported results (Y-axis) plotted against reported analysis date (X-axis)

Homogeneity Regression



Reported results (Y-axis) plotted against bottling order (X-axis).

ETHYLENE DIBROMIDE

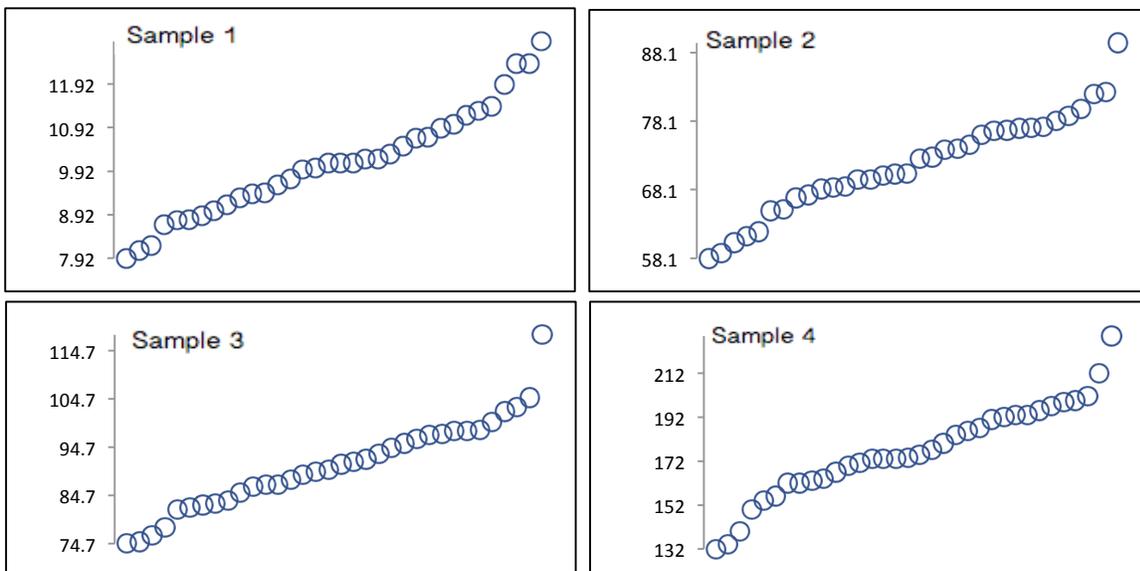
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	34	34	34	34
Median	10.1	71.5	90.6	174
Robust Mean	10.1	71.7	90.6	177
U	0.28	1.61	2.01	4.46
Robust Standard Deviation	1.29	7.49	9.4	20.8
Regression Standard Deviation	1.76	12.5	15.9	31.0
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA)	1.76	12.5	15.9	31.0
Outliers	0	0	0	0
z >3.0	0	0	0	0
2< z <3	0	0	0	0

Methods Used

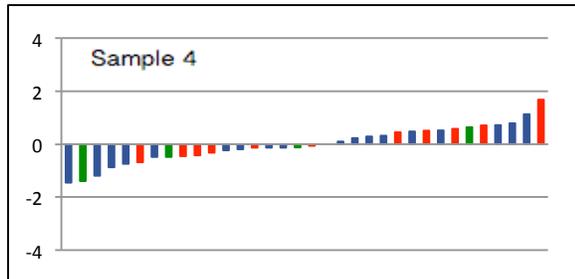
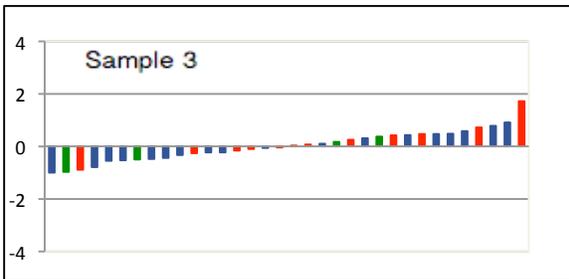
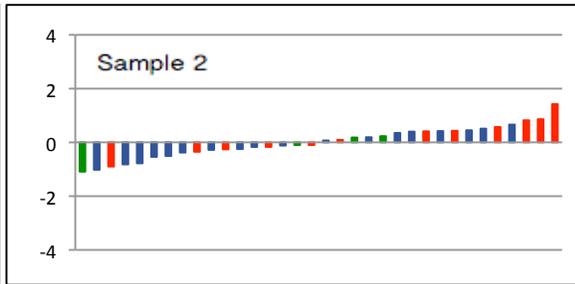
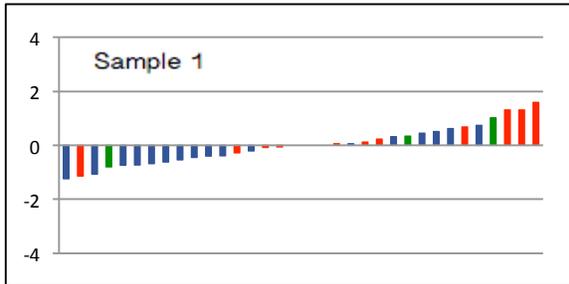
Method	C36-1	C36-2	C36-3	C36-4
P/T-GCMS	18	18	18	18
HS-GCMS	12	12	12	12
GC/MSE	4	4	4	4

All summary stats and the plots below are based on the data excluding any flagged outliers

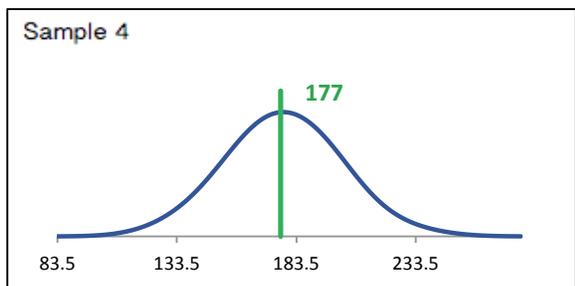
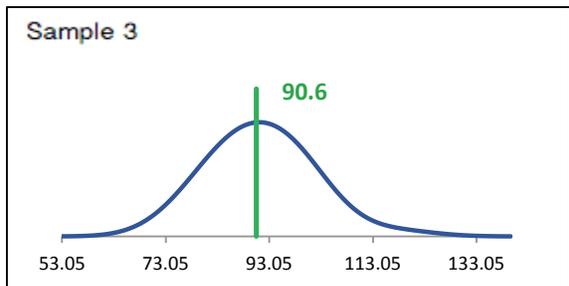
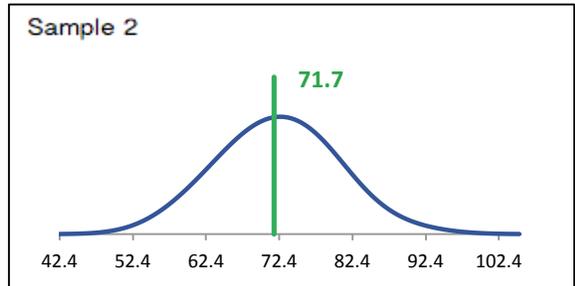
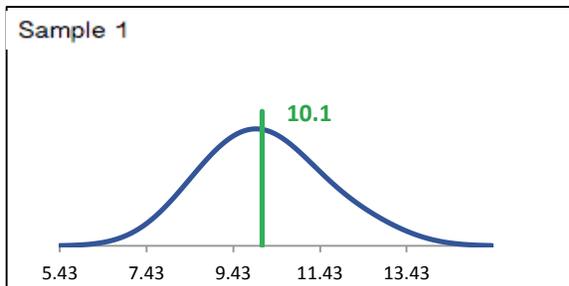


ETHYLENE DIBROMIDE

z-Score Plots

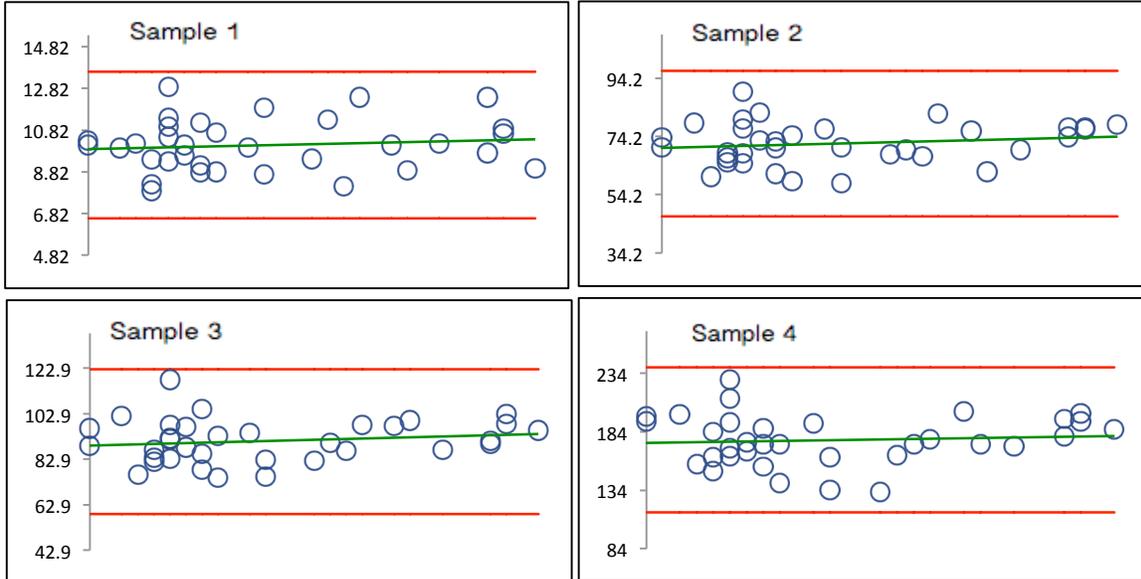


Kernel Density Plots



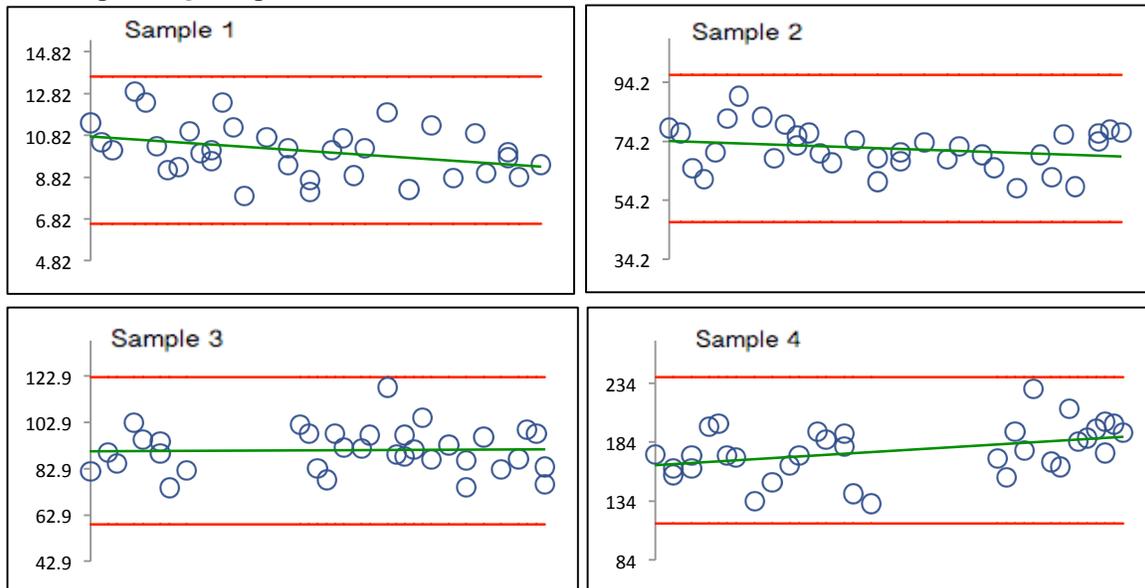
ETHYLENE DIBROMIDE

Stability Regression



Reported results (Y-axis) plotted against reported analysis date (X-axis)

Homogeneity Regression



Reported results (Y-axis) plotted against bottling order (X-axis).

M,P-XYLENE

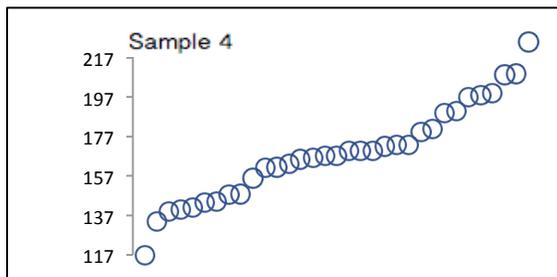
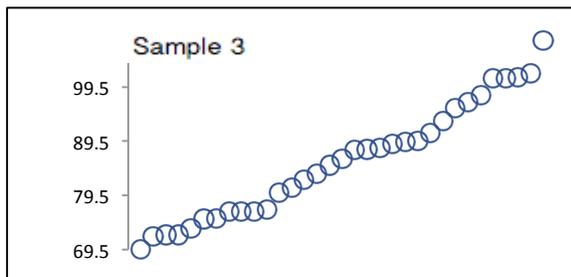
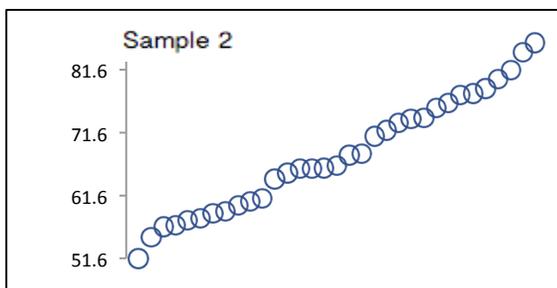
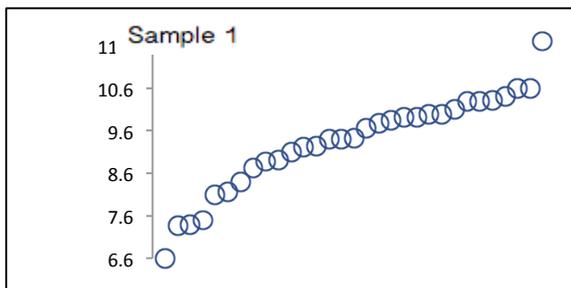
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	31	33	33	33
Median	9.44	66.4	86.3	167
Robust Mean	9.38	68.0	85.7	168
U	0.24	2.22	2.55	5.40
Robust Standard Deviation	1.08	10.2	11.7	24.8
Regression Standard Deviation	1.88	13.6	17.1	33.7
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA)	1.88	13.6	17.1	33.7
Outliers	0	0	0	0
z >3.0	0	0	0	0
2< z <3	0	0	0	0

Methods Used

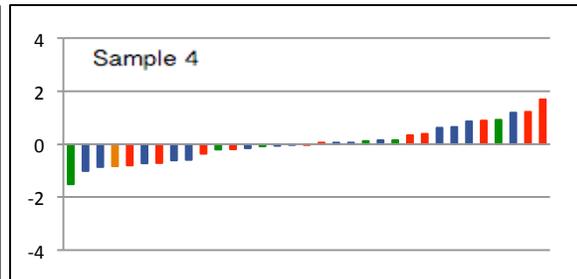
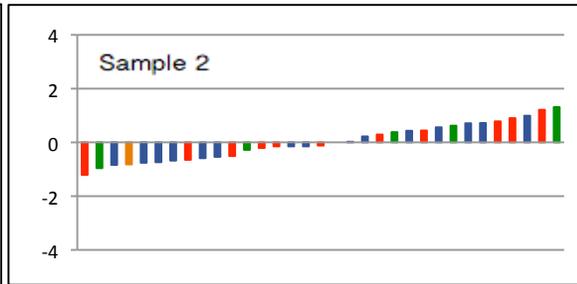
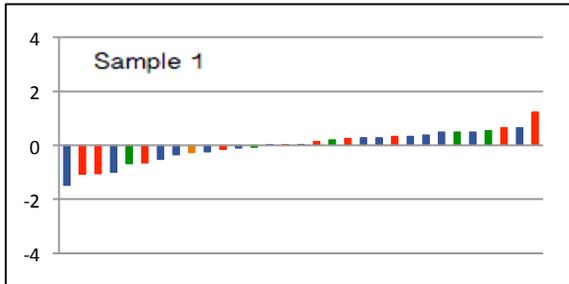
Method	C36-1	C36-2	C36-3	C36-4
P/T-GCMS	15	15	15	15
HS-GCMS	10	11	11	11
GC/MSE	5	6	6	6
GC/MSF/HS	1	1	1	1

All summary stats and the plots below are based on the data excluding any flagged outliers

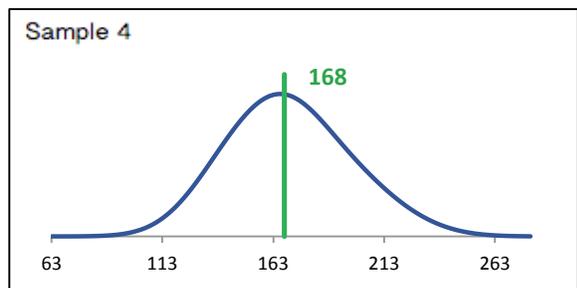
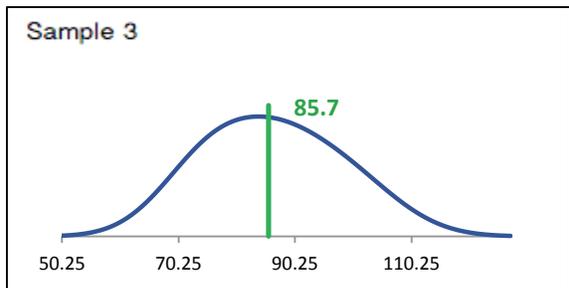
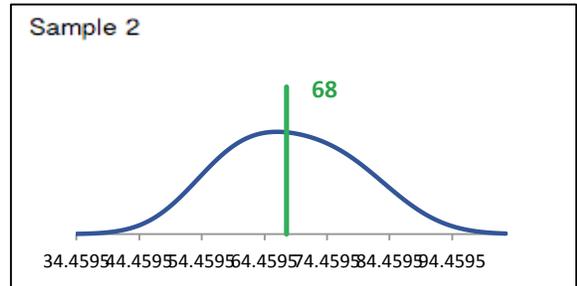
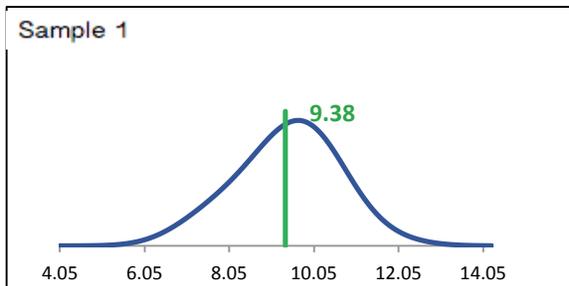


M,P-XYLENE

z-Score Plots

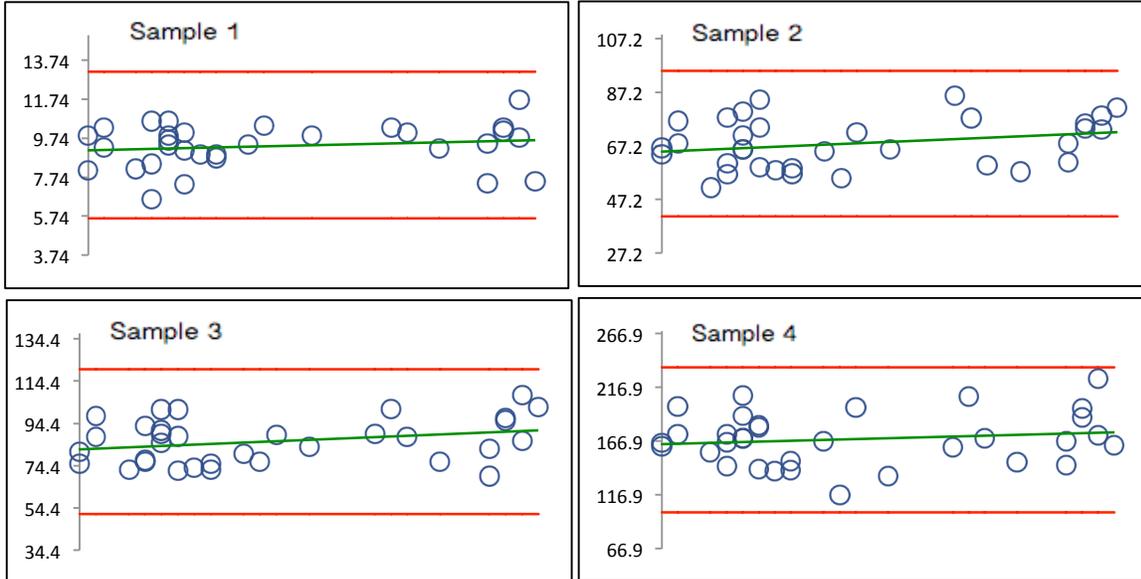


Kernel Density Plots



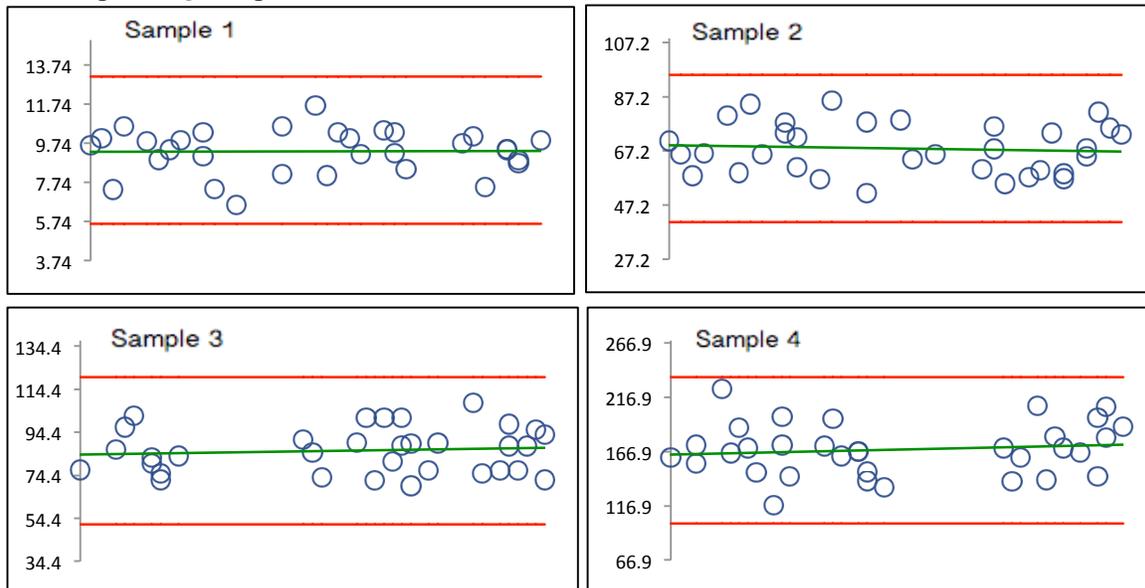
M,P-XYLENE

Stability Regression



Reported results (Y-axis) plotted against reported analysis date (X-axis)

Homogeneity Regression



Reported results (Y-axis) plotted against bottling order (X-axis).

METHYL ETHYL KETONE

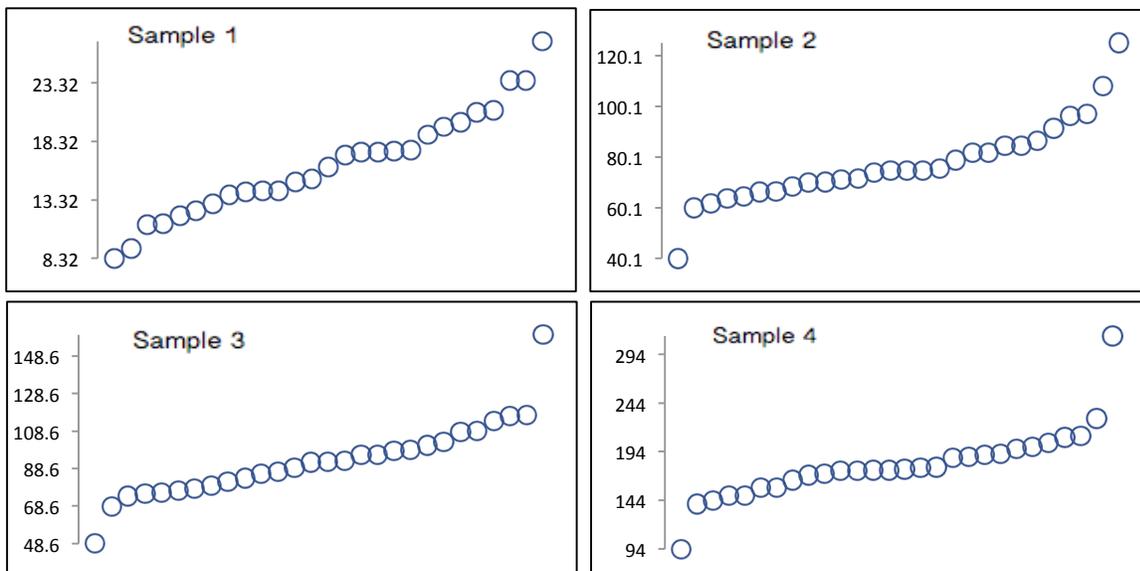
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	27	28	28	28
Median	16.1	74.7	92.0	176
Robust Mean	16.2	76.3	91.9	178
U	1.13	3.20	4.14	6.18
Robust Standard Deviation	4.71	13.3	17.2	25.7
Regression Standard Deviation	4.45	21.0	25.3	48.9
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA)	4.71	21.0	25.3	48.9
Outliers	0	0	0	0
z >3.0	0	0	0	0
2< z <3	1	1	1	1

Methods Used

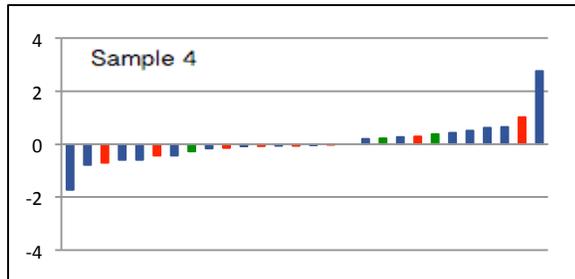
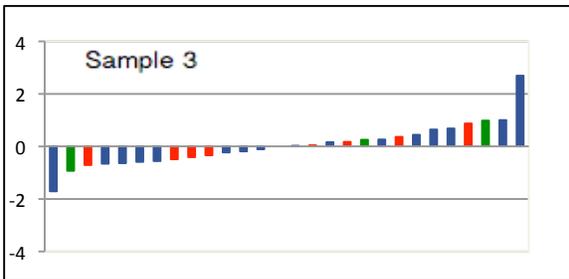
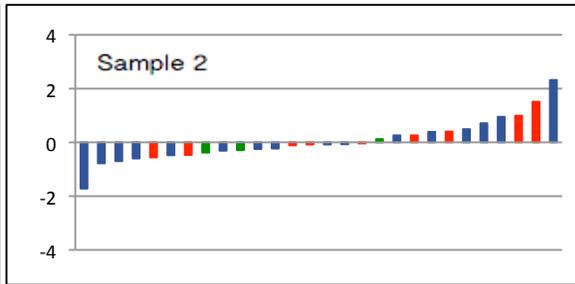
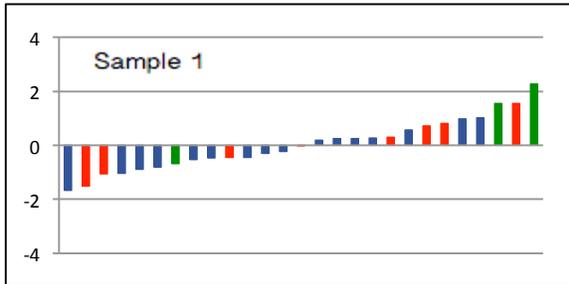
Method	C36-1	C36-2	C36-3	C36-4
P/T-GCMS	16	16	16	16
HS-GCMS	8	9	9	9
GC/MSE	3	3	3	3

All summary stats and the plots below are based on the data excluding any flagged outliers

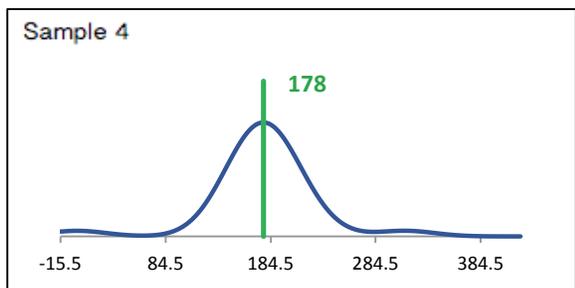
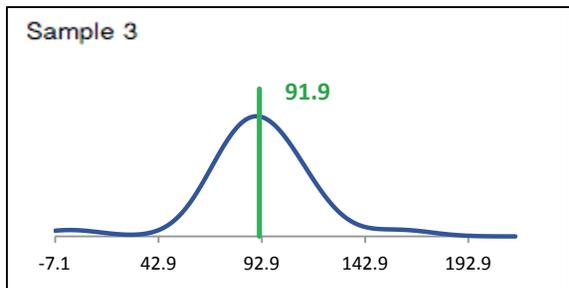
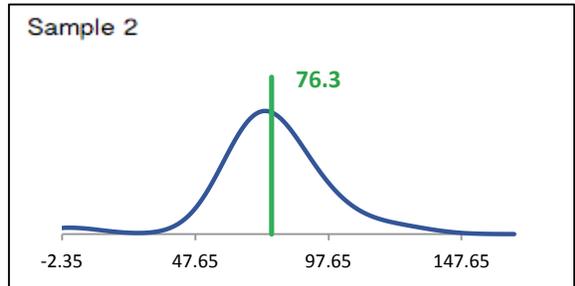
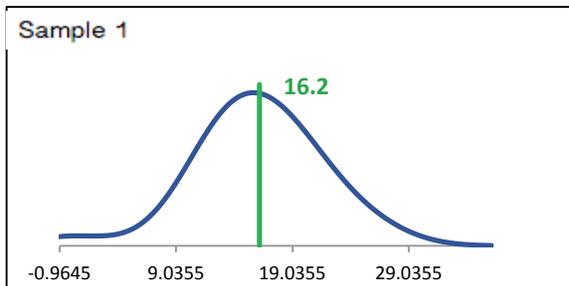


METHYL ETHYL KETONE

z-Score Plots

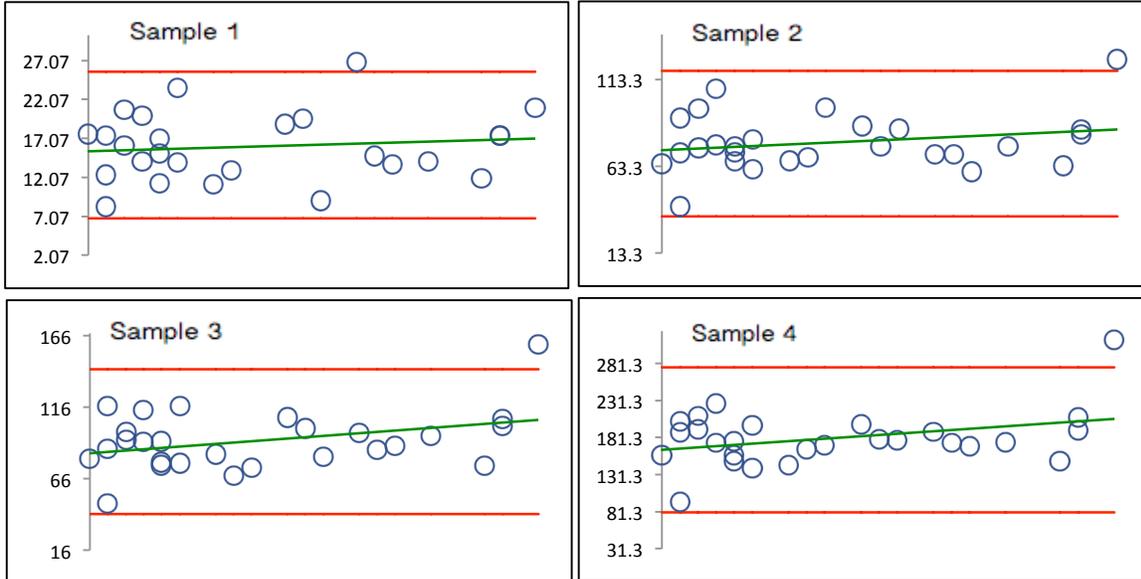


Kernel Density Plots



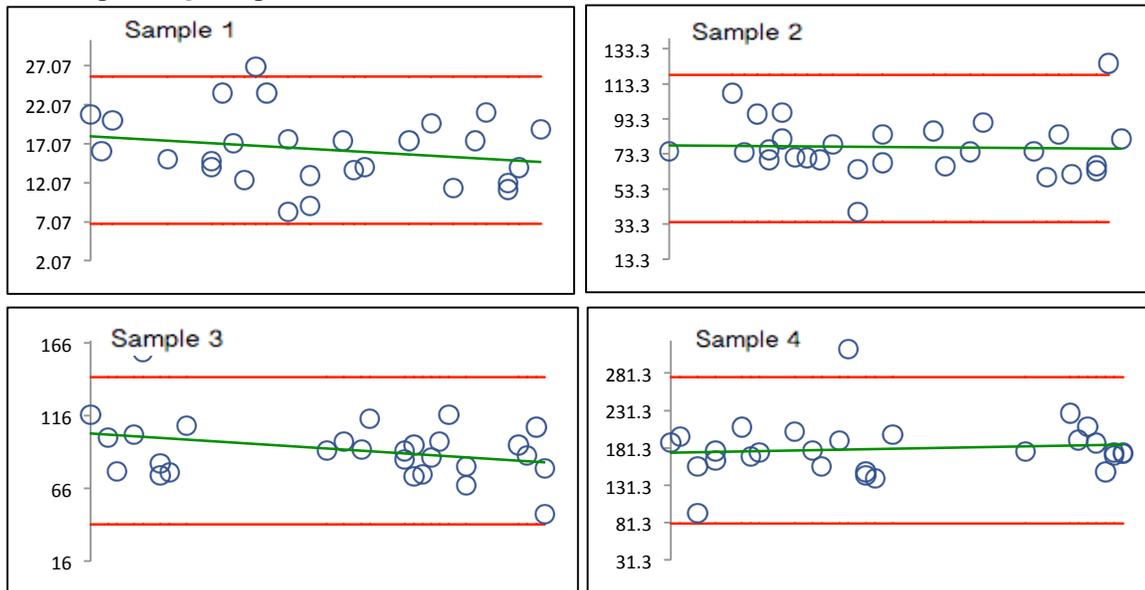
METHYL ETHYL KETONE

Stability Regression



Reported results (Y-axis) plotted against reported analysis date (X-axis)

Homogeneity Regression



Reported results (Y-axis) plotted against bottling order (X-axis).

METHYL ISOBUTYL KETONE (MIBK)

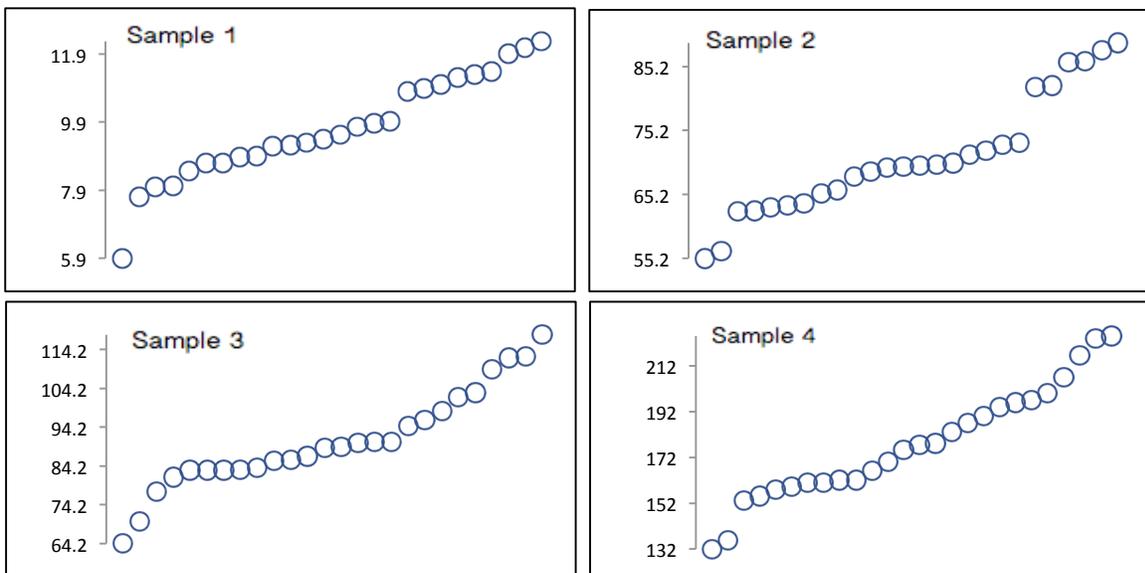
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	26	26	26	26
Median	9.46	69.6	89.0	176
Robust Mean	9.76	70.8	90.7	178
U	0.39	2.53	3.18	6.58
Robust Standard Deviation	1.59	10.1	12.7	26.3
Regression Standard Deviation	2.20	15.9	20.4	40.0
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA)	2.20	15.9	20.4	40.0
Outliers	0	0	0	0
z >3.0	0	0	0	0
2< z <3	0	0	0	0

Methods Used

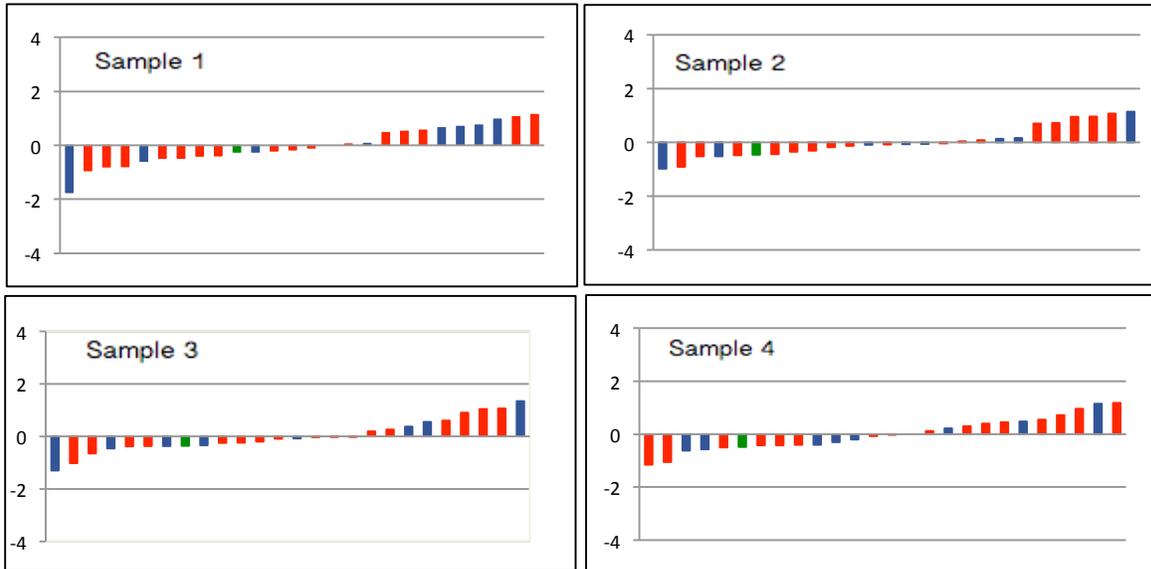
Method	C36-1	C36-2	C36-3	C36-4
HS-GCMS	8	8	8	8
P/T-GCMS	17	17	17	17
GC/MSE	1	1	1	1

All summary stats and the plots below are based on the data excluding any flagged outliers

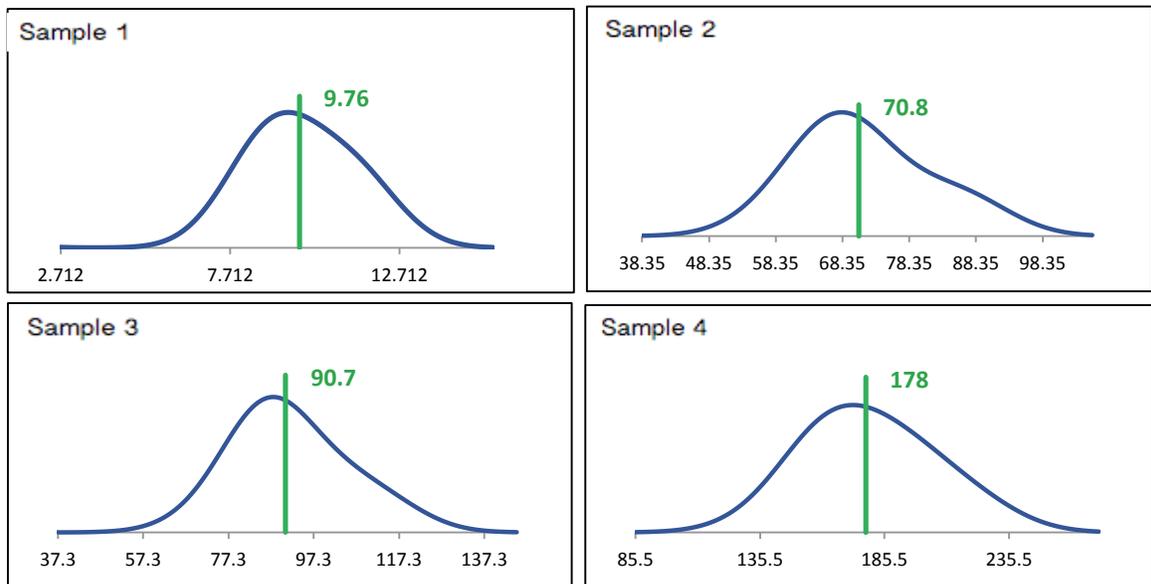


METHYL ISOBUTYL KETONE (MIBK)

z-Score Plots

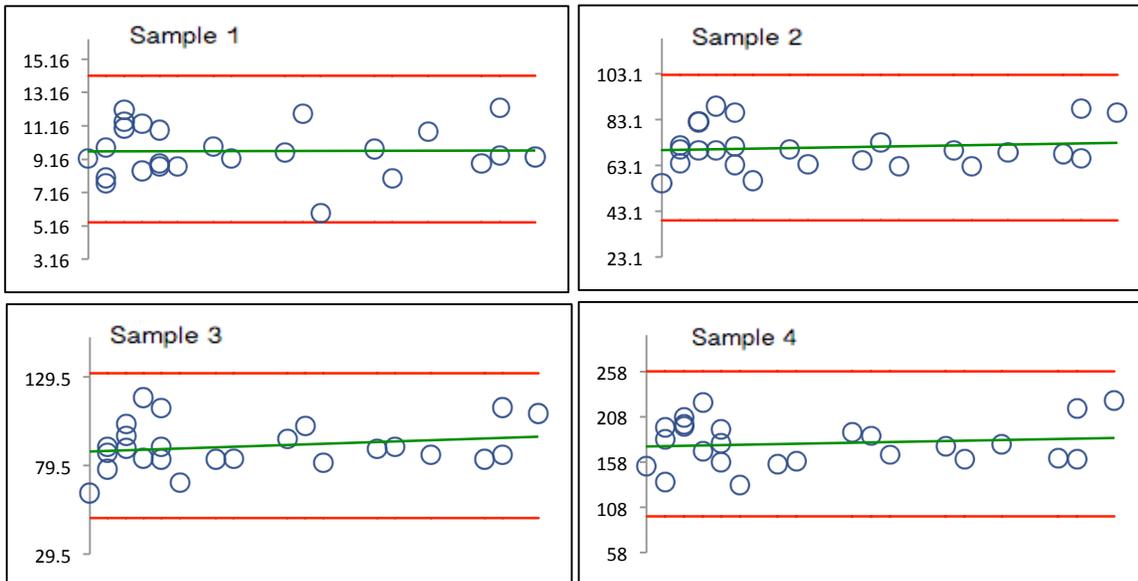


Kernel Density Plots



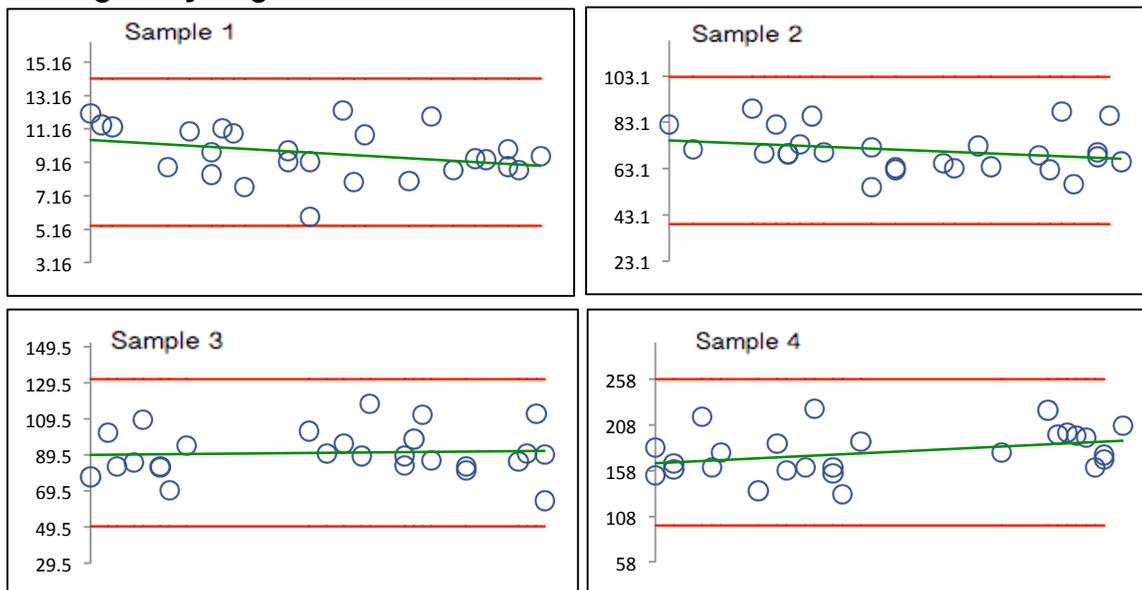
METHYL ISOBUTYL KETONE (MIBK)

Stability Regression



Reported results (Y-axis) plotted against reported analysis date (X-axis)

Homogeneity Regression



Reported results (Y-axis) plotted against bottling order (X-axis).

METHYL T-BUTYL ETHER

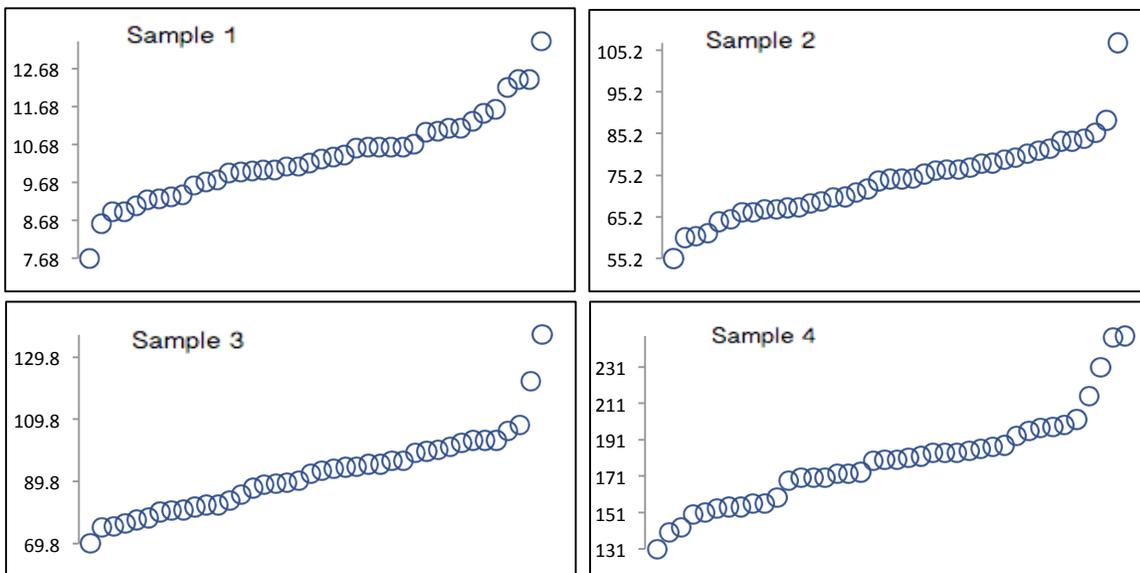
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	40	40	40	40
Median	10.3	74.3	92.8	180
Robust Mean	10.3	73.4	91.3	177
U	0.21	1.71	2.33	4.53
Robust Standard Deviation	1.05	8.7	11.8	22.9
Regression Standard Deviation	2.06	14.7	18.3	35.4
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA)	2.06	14.7	18.3	35.4
Outliers	1	1	1	1
z >3.0	0	0	0	0
2< z <3	0	1	1	1

Methods Used

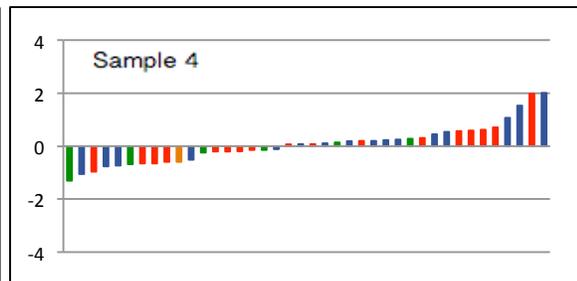
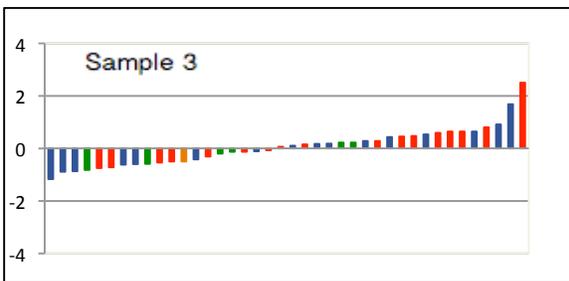
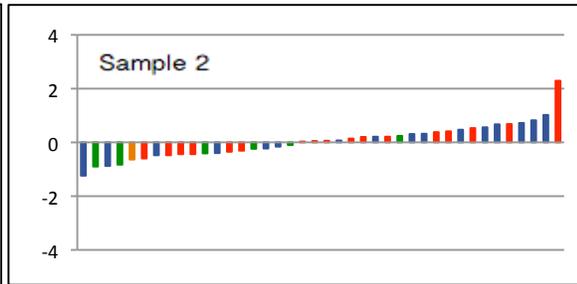
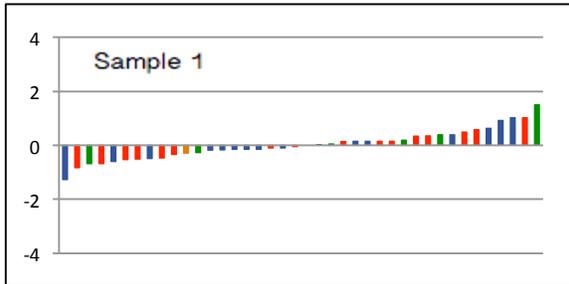
Method	C36-1	C36-2	C36-3	C36-4
HS-GCMS	16	16	16	16
P/T-GCMS	17	17	17	17
GC/MSE	6	6	6	6
GC/MSF/HS	1	1	1	1

All summary stats and the plots below are based on the data excluding any flagged outliers

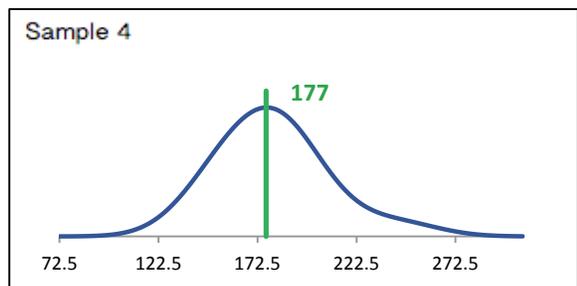
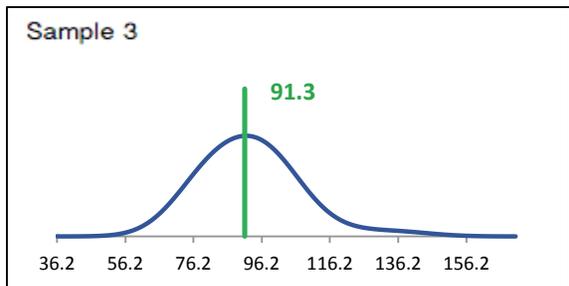
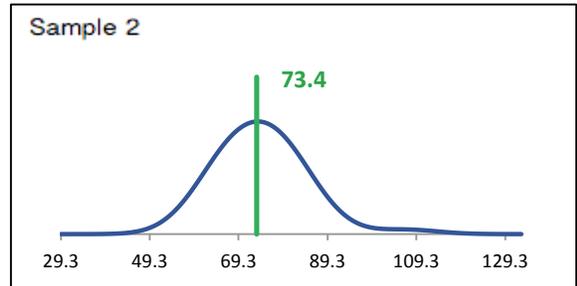
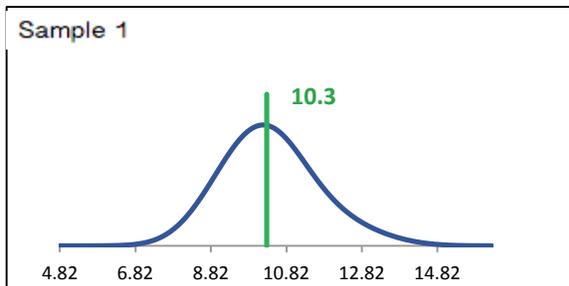


METHYL T-BUTYL ETHER

z-Score Plots

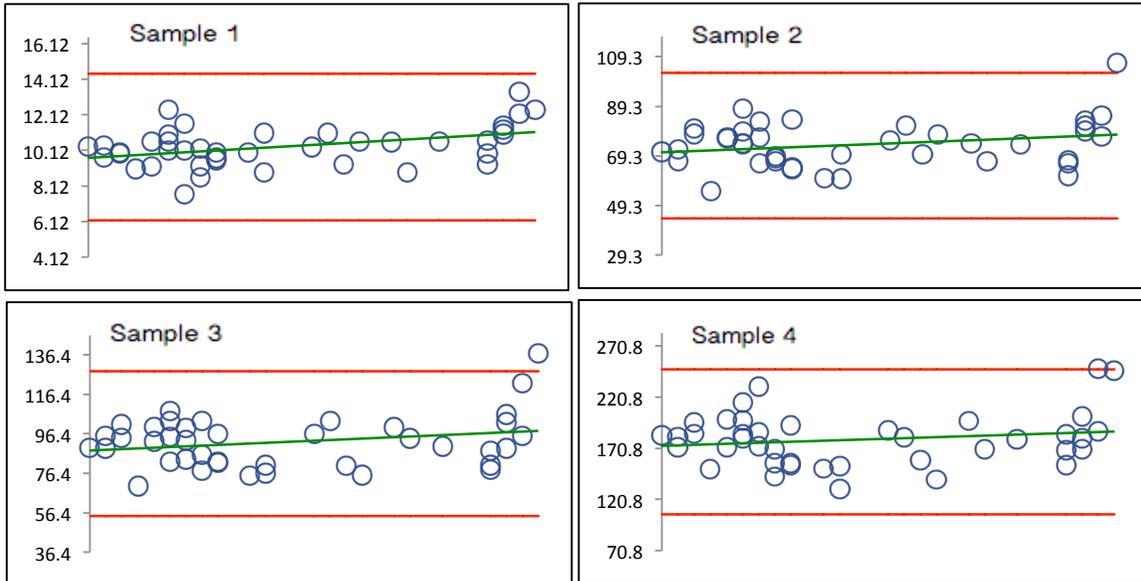


Kernel Density Plots



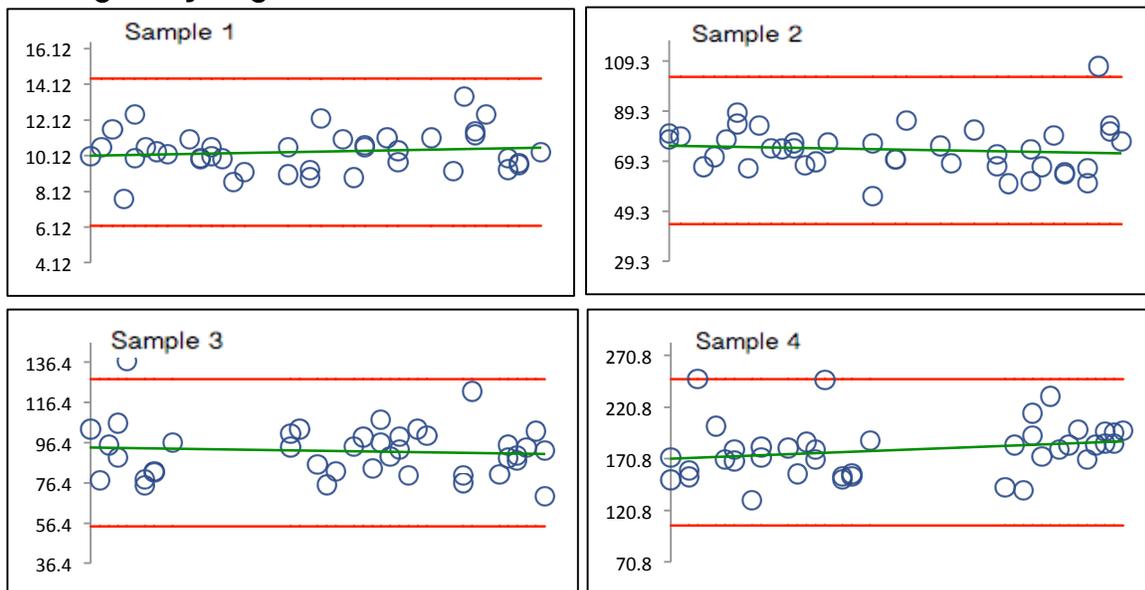
METHYL T-BUTYL ETHER

Stability Regression



Reported results (Y-axis) plotted against reported analysis date (X-axis)

Homogeneity Regression



Reported results (Y-axis) plotted against bottling order (X-axis).

O-XYLENE

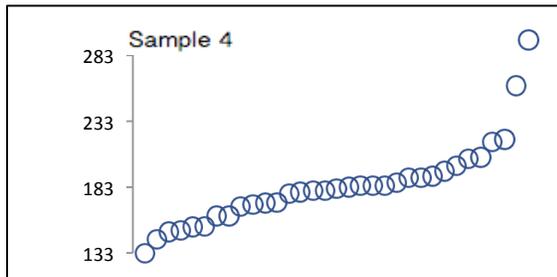
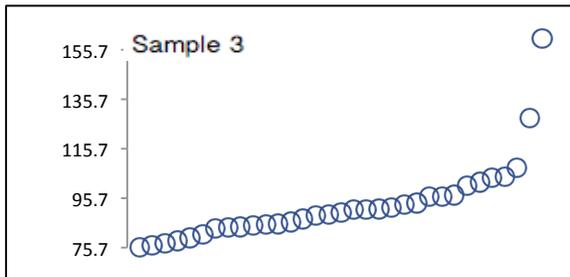
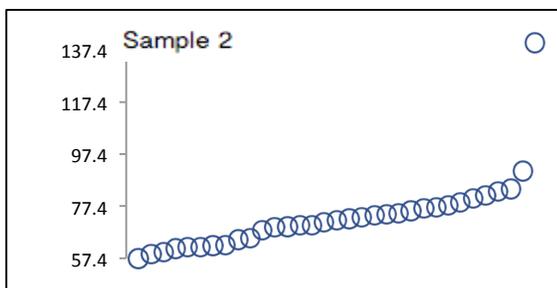
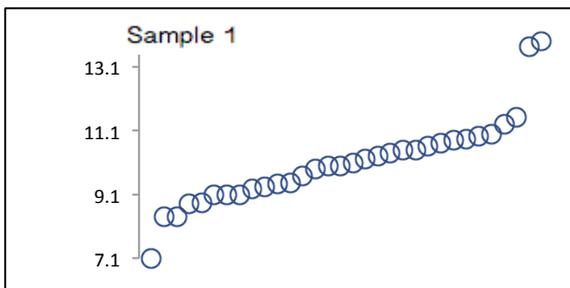
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	32	33	33	33
Median	10.1	72.0	90.0	182
Robust Mean	10.0	71.5	90.5	181
U	0.24	2.00	2.24	5.31
Robust Standard Deviation	1.10	9.20	10.3	24.4
Regression Standard Deviation	1.75	12.5	15.8	31.6
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA)	1.75	12.5	15.8	31.6
Outliers	0	0	0	0
z >3.0	0	1	1	1
2< z <3	2	0	1	1

Methods Used

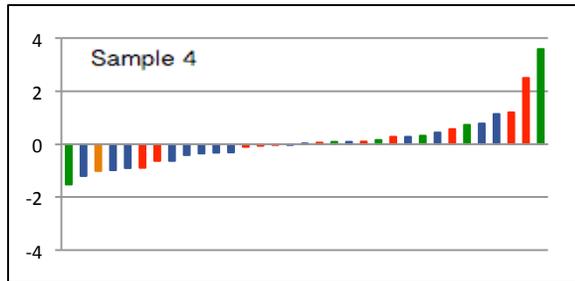
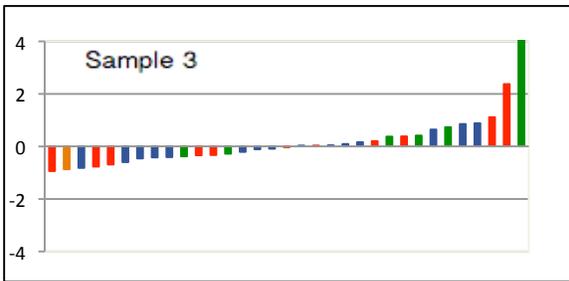
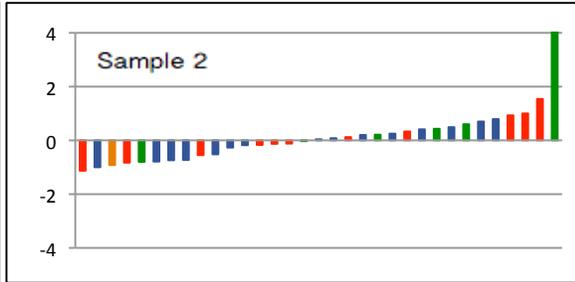
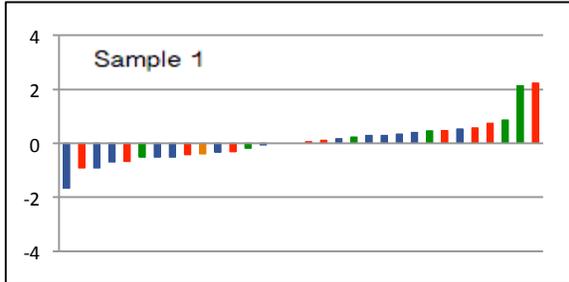
Method	C36-1	C36-2	C36-3	C36-4
P/T-GCMS	15	15	15	15
HS-GCMS	10	11	11	11
GC/MSE	6	6	6	6
GC/MSF/HS	1	1	1	1

All summary stats and the plots below are based on the data excluding any flagged outliers

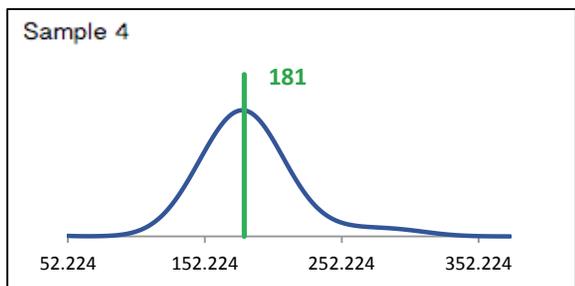
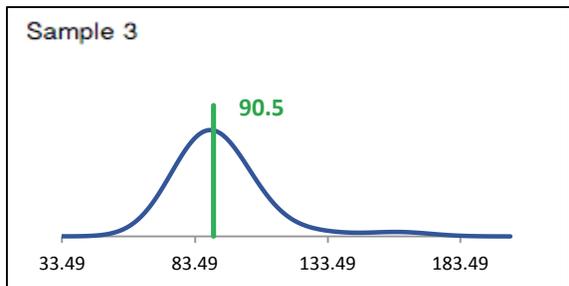
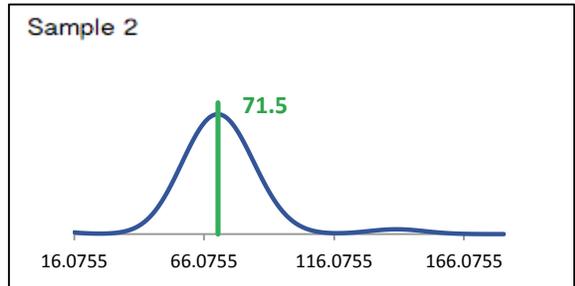
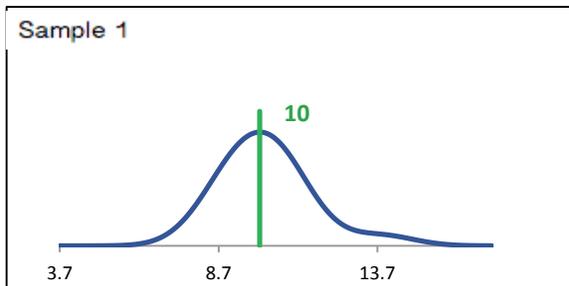


O-XYLENE

z-Score Plots

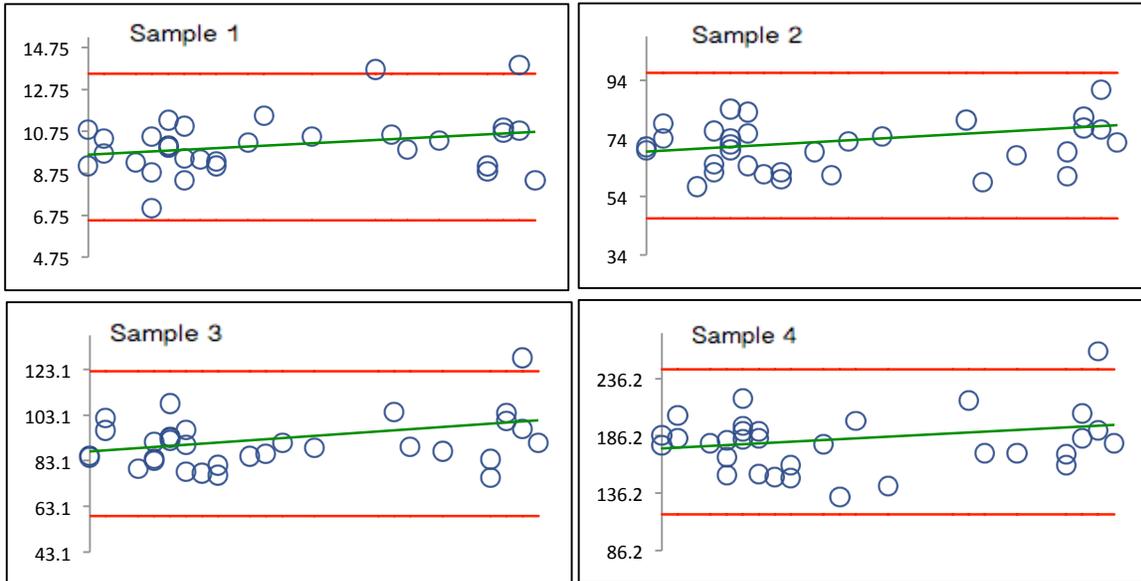


Kernel Density Plots



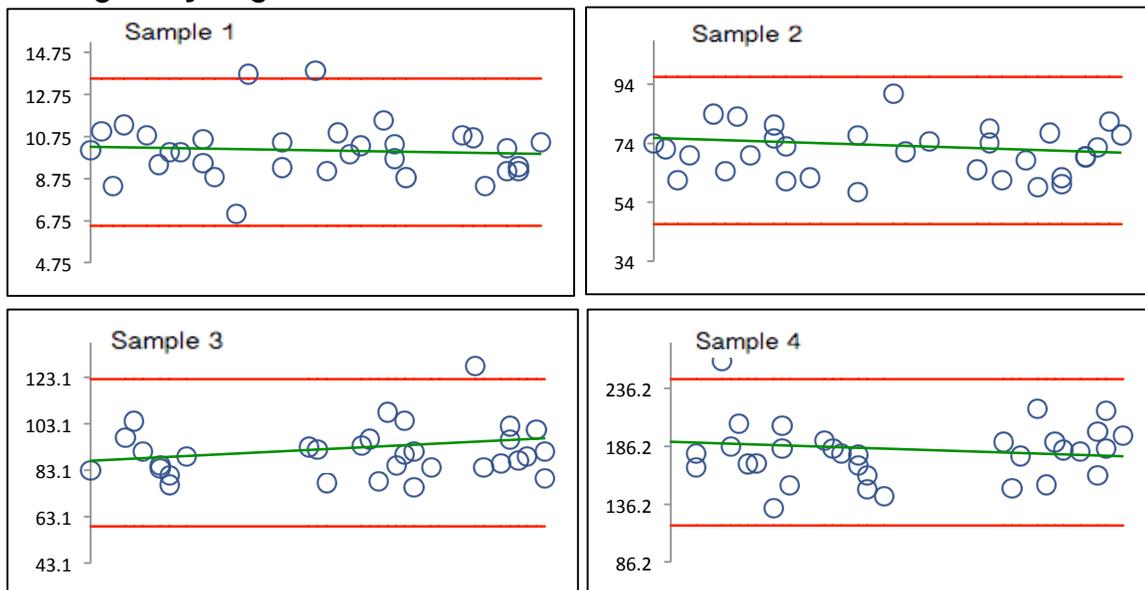
O-XYLENE

Stability Regression



Reported results (Y-axis) plotted against reported analysis date (X-axis)

Homogeneity Regression



Reported results (Y-axis) plotted against bottling order (X-axis).

STYRENE

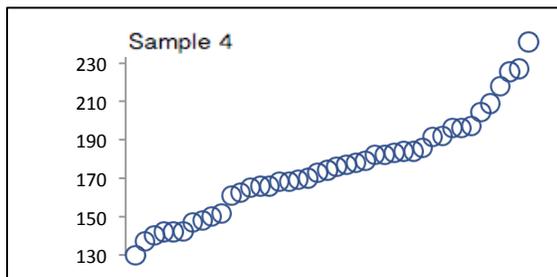
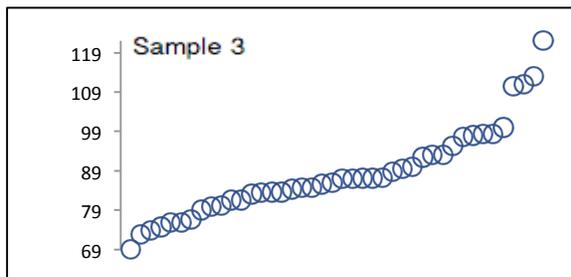
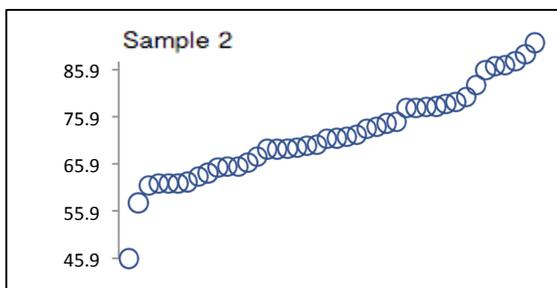
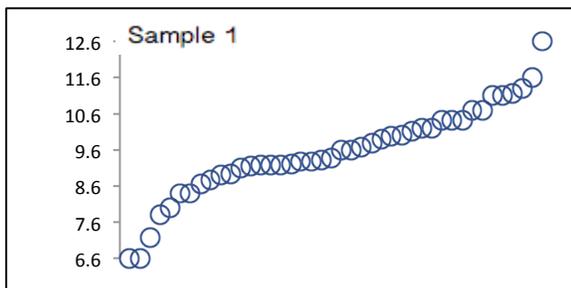
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	42	42	42	42
Median	9.49	71.3	86.5	175
Robust Mean	9.59	72.2	87.2	174
U	0.23	1.88	1.92	4.96
Robust Standard Deviation	1.17	9.75	9.9	25.7
Regression Standard Deviation	1.68	12.6	15.3	30.5
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA)	1.68	12.6	15.3	30.5
Outliers	0	0	0	0
z >3.0	0	0	0	0
2< z <3	0	1	1	1

Methods Used

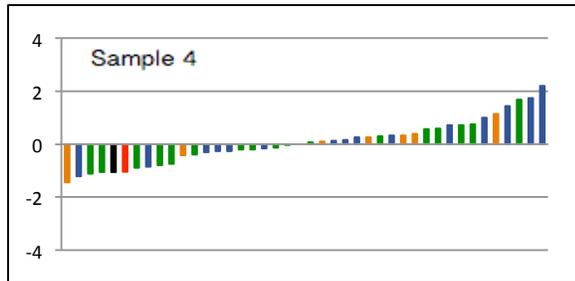
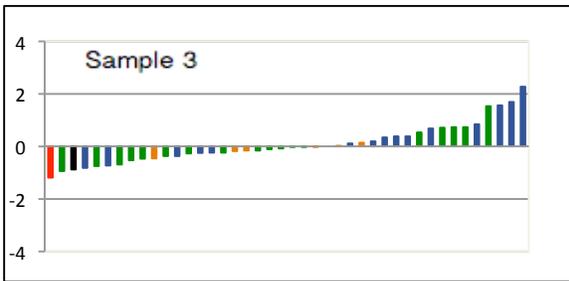
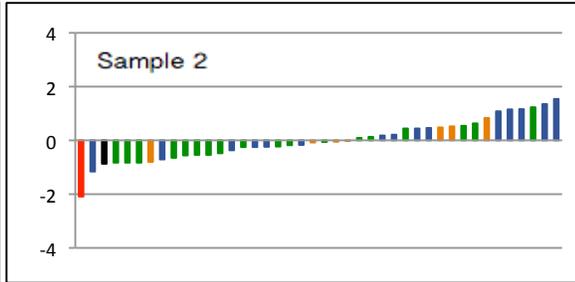
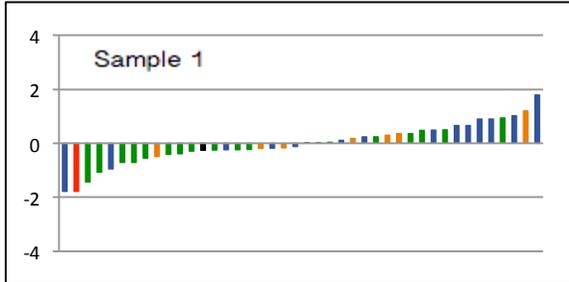
Method	C36-1	C36-2	C36-3	C36-4
HS-GCMS	15	15	15	15
GC/MSF	1	1	1	1
P/T-GCMS	18	18	18	18
GC/MSE	7	7	7	7
GC/MSF/HS	1	1	1	1

All summary stats and the plots below are based on the data excluding any flagged outliers

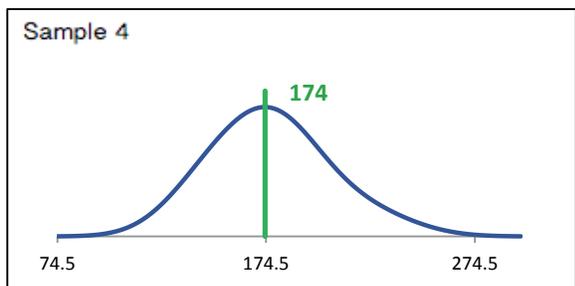
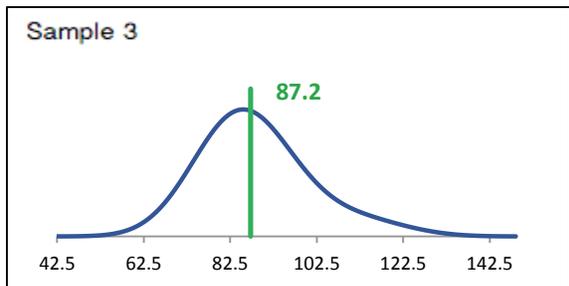
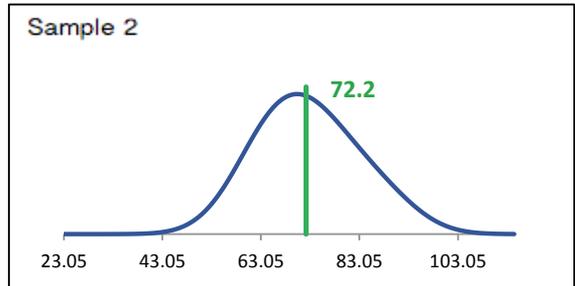
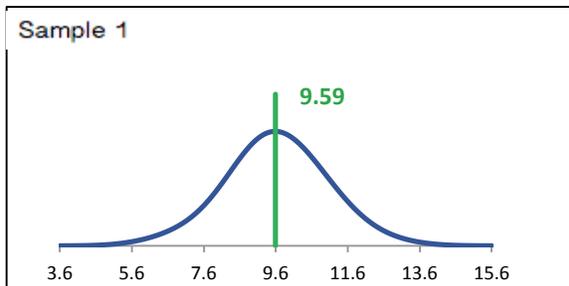


STYRENE

z-Score Plots

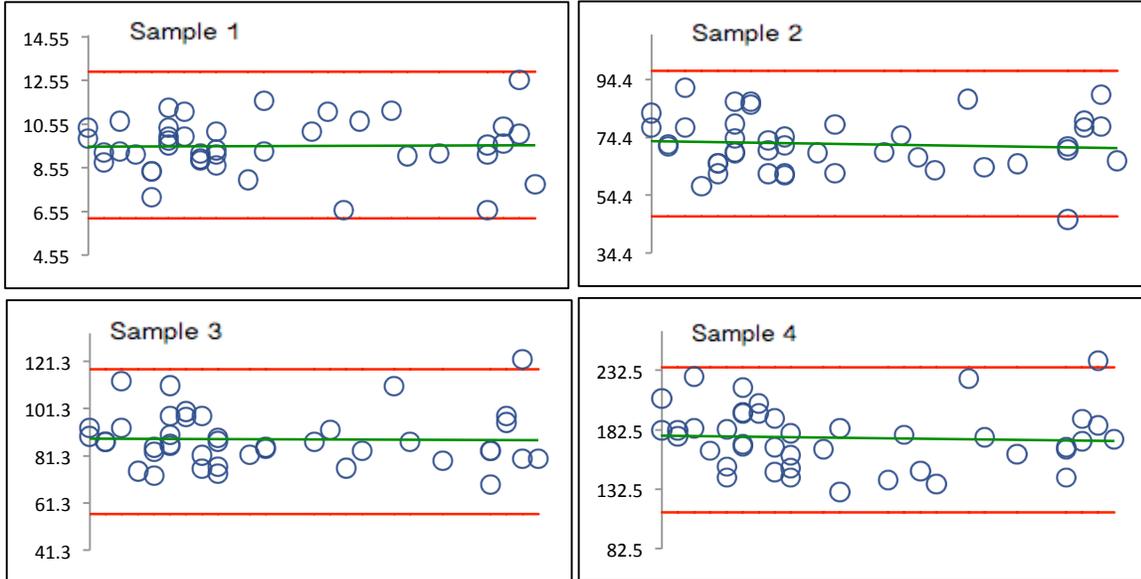


Kernel Density Plots



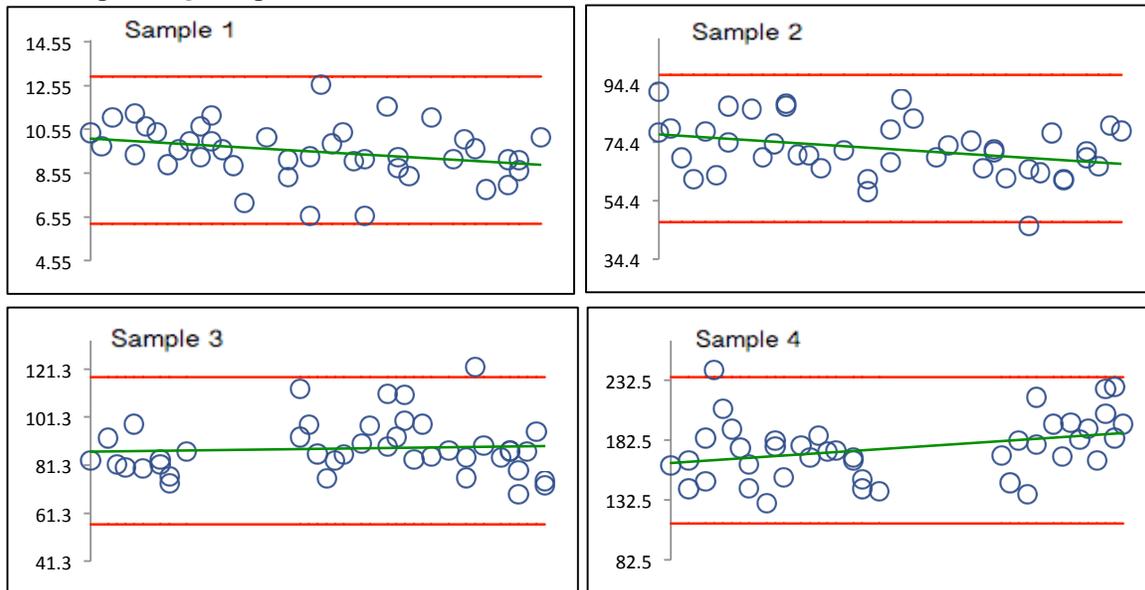
STYRENE

Stability Regression



Reported results (Y-axis) plotted against reported analysis date (X-axis)

Homogeneity Regression



Reported results (Y-axis) plotted against bottling order (X-axis).

TETRACHLOROETHYLENE

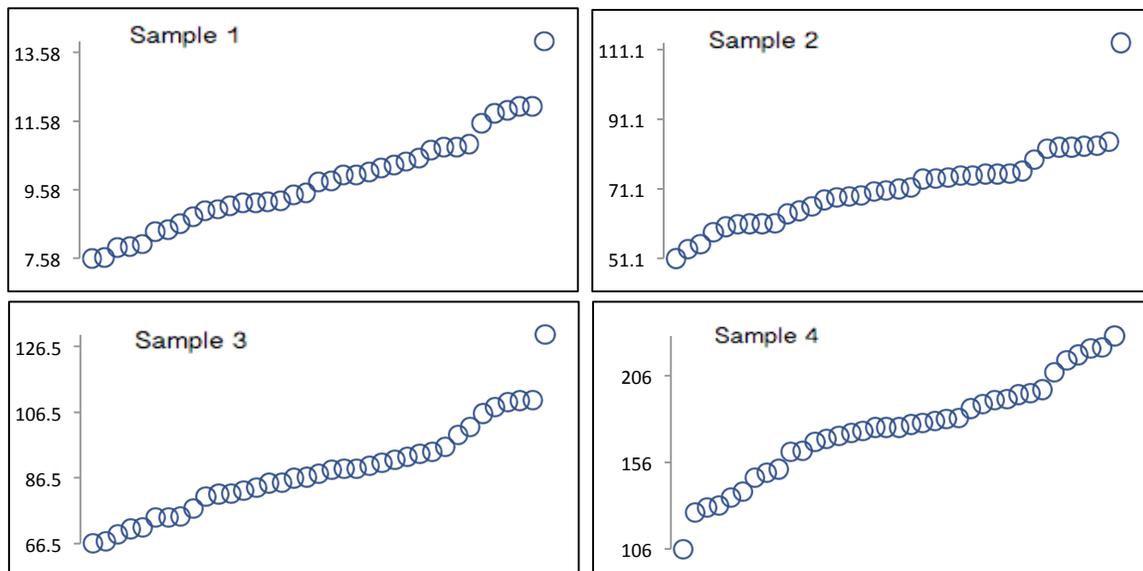
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	37	37	37	37
Median	9.82	71.0	87.6	176
Robust Mean	9.77	70.9	88.1	176
U	0.30	2.08	2.96	6.37
Robust Standard Deviation	1.48	10.1	14.4	31.0
Regression Standard Deviation	2.20	15.9	19.8	39.6
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA)	2.20	15.9	19.8	39.6
Outliers	0	0	0	0
z >3.0	0	0	0	0
2< z <3	0	1	1	0

Methods Used

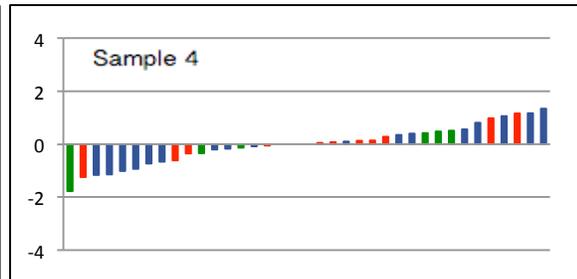
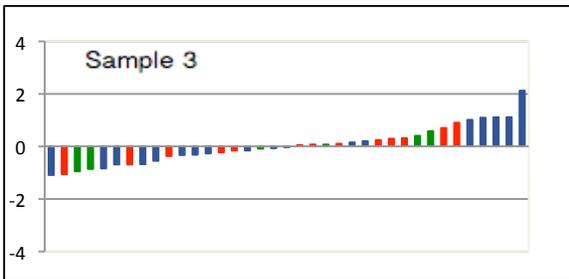
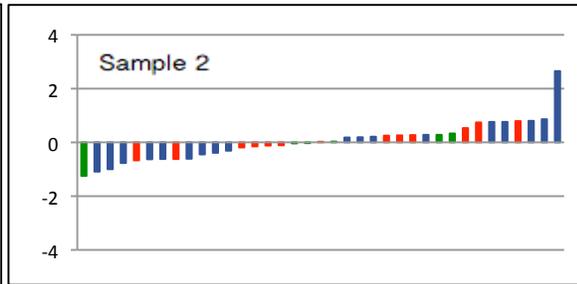
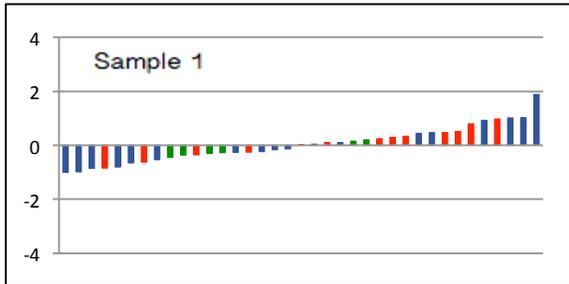
Method	C36-1	C36-2	C36-3	C36-4
P/T-GCMS	18	18	18	18
HS-GCMS	13	13	13	13
GC/MSE	6	6	6	6

All summary stats and the plots below are based on the data excluding any flagged outliers

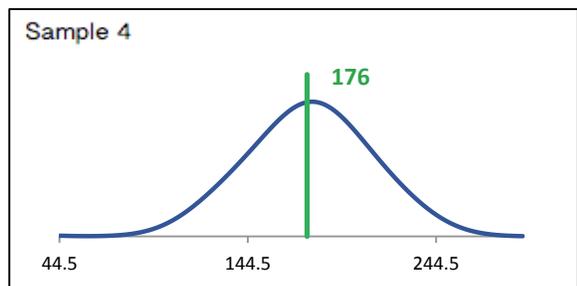
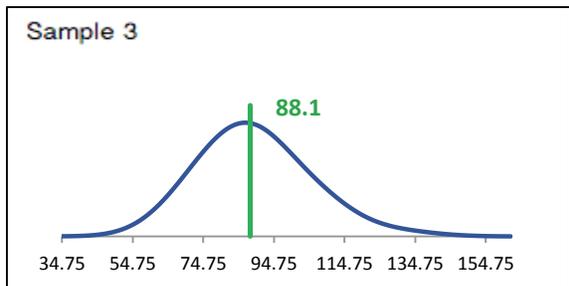
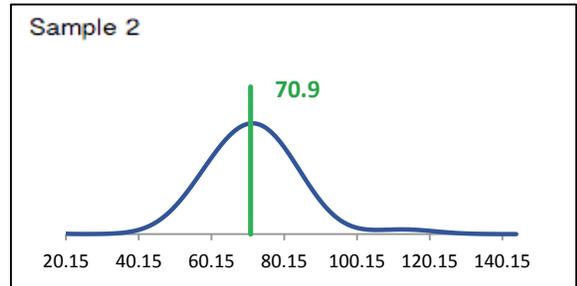
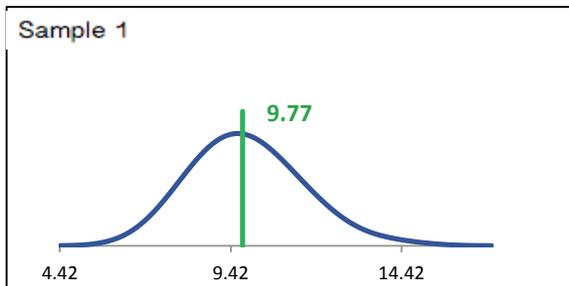


TETRACHLOROETHYLENE

z-Score Plots

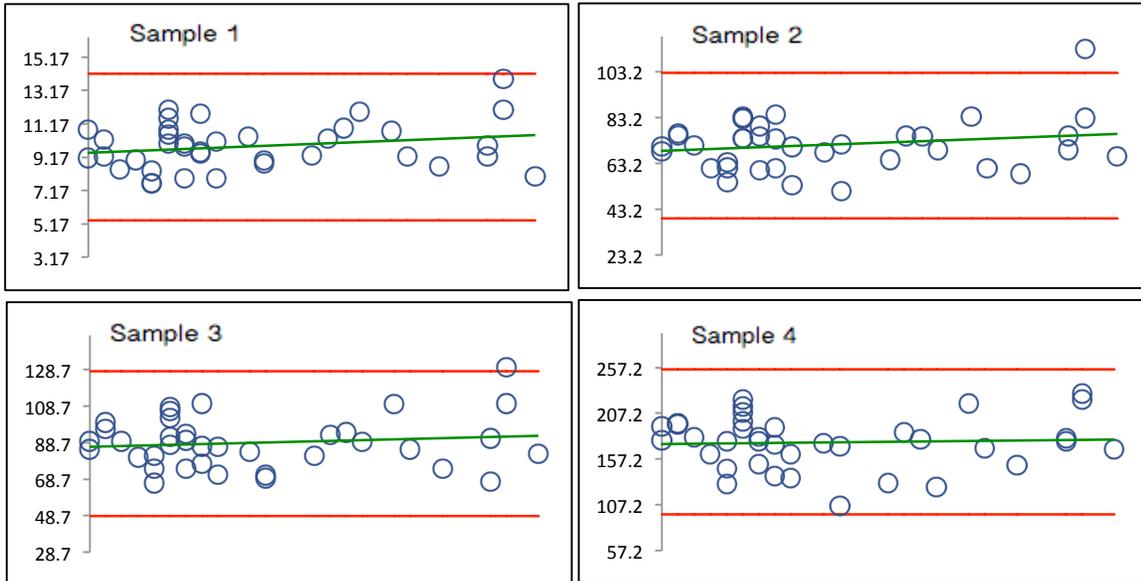


Kernel Density Plots



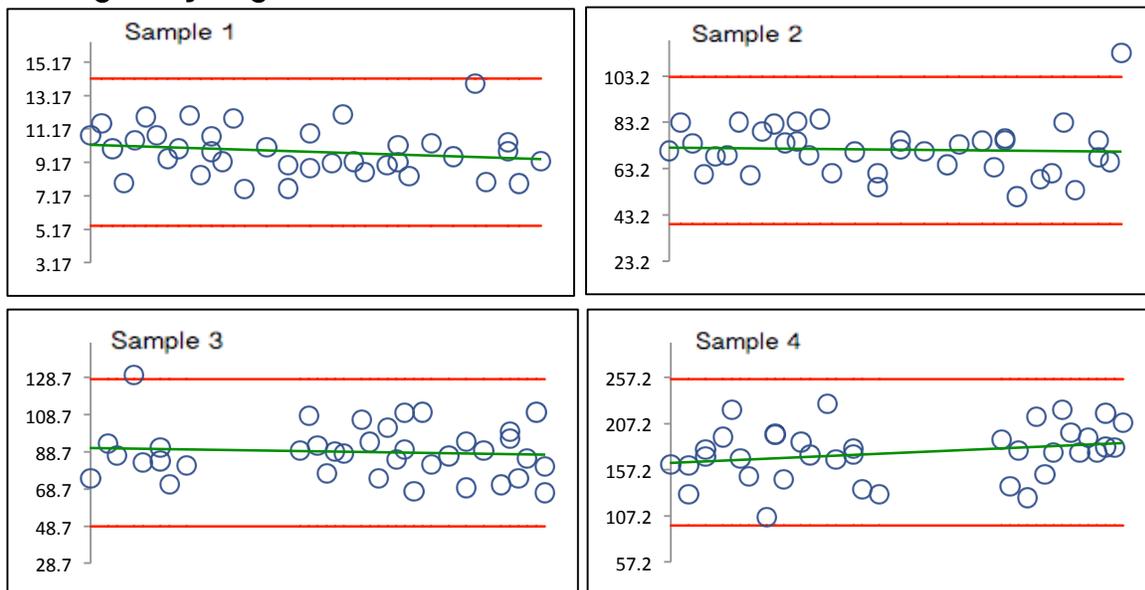
TETRACHLOROETHYLENE

Stability Regression



Reported results (Y-axis) plotted against reported analysis date (X-axis)

Homogeneity Regression



Reported results (Y-axis) plotted against bottling order (X-axis).

TOLUENE

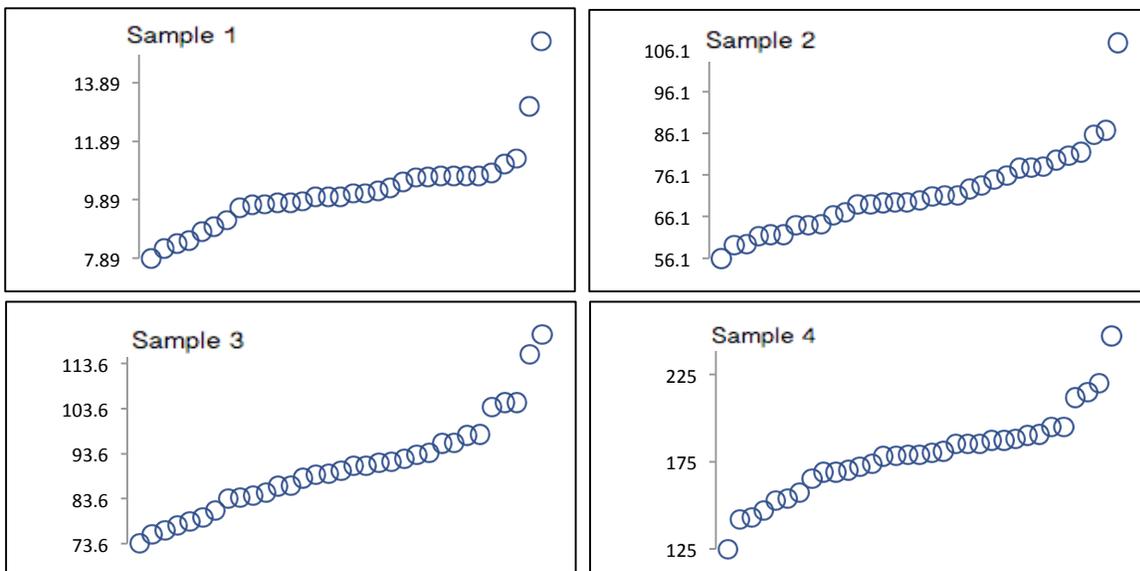
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	32	33	33	33
Median	10.1	69.9	89.8	179
Robust Mean	10.0	71.0	89.8	178
U	0.22	1.89	2.24	4.74
Robust Standard Deviation	0.975	8.70	10.3	21.8
Regression Standard Deviation	1.76	12.4	15.7	31.1
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA)	1.76	12.4	15.7	31.1
Outliers	0	0	0	0
z >3.0	1	0	0	0
2< z <3	0	1	0	1

Methods Used

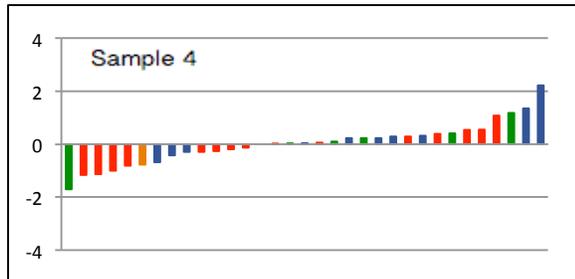
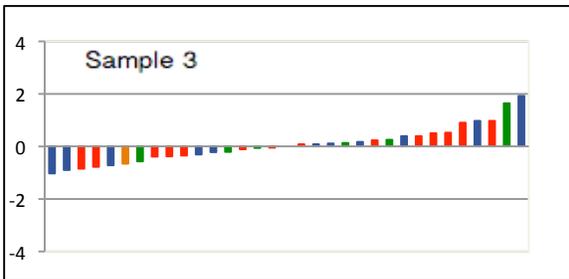
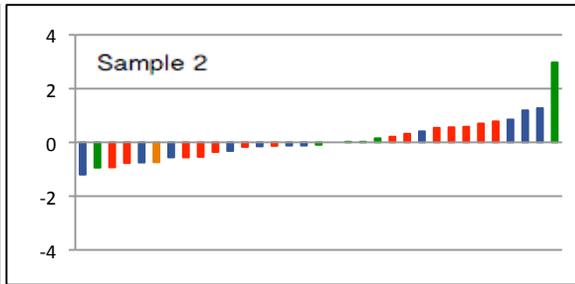
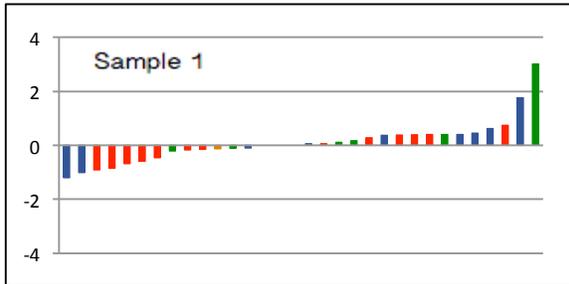
Method	C36-1	C36-2	C36-3	C36-4
HS-GCMS	10	11	11	11
P/T-GCMS	15	15	15	15
GC/MSE	6	6	6	6
GC/MSF/HS	1	1	1	1

All summary stats and the plots below are based on the data excluding any flagged outliers

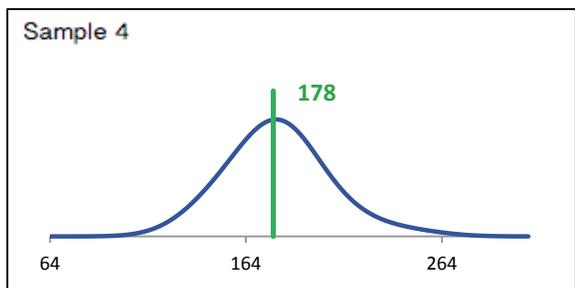
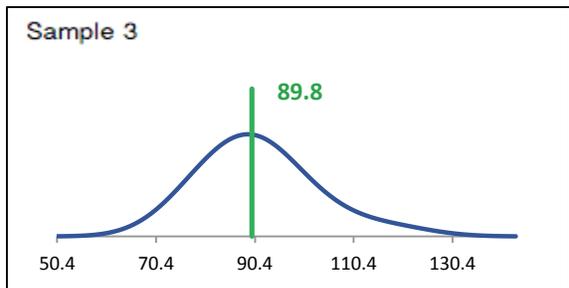
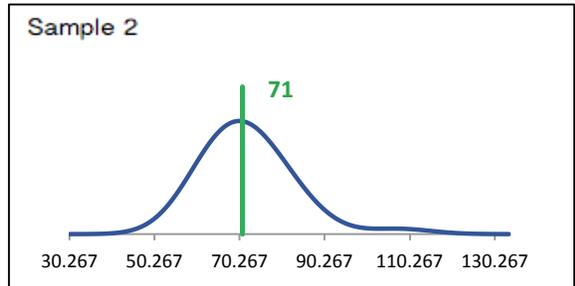
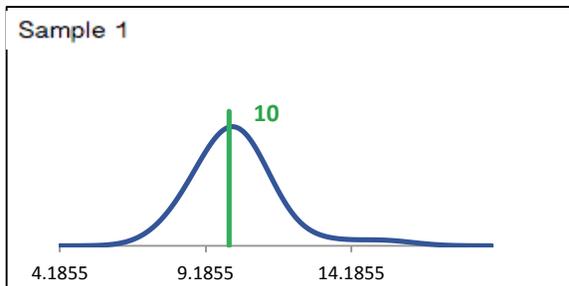


TOLUENE

z-Score Plots

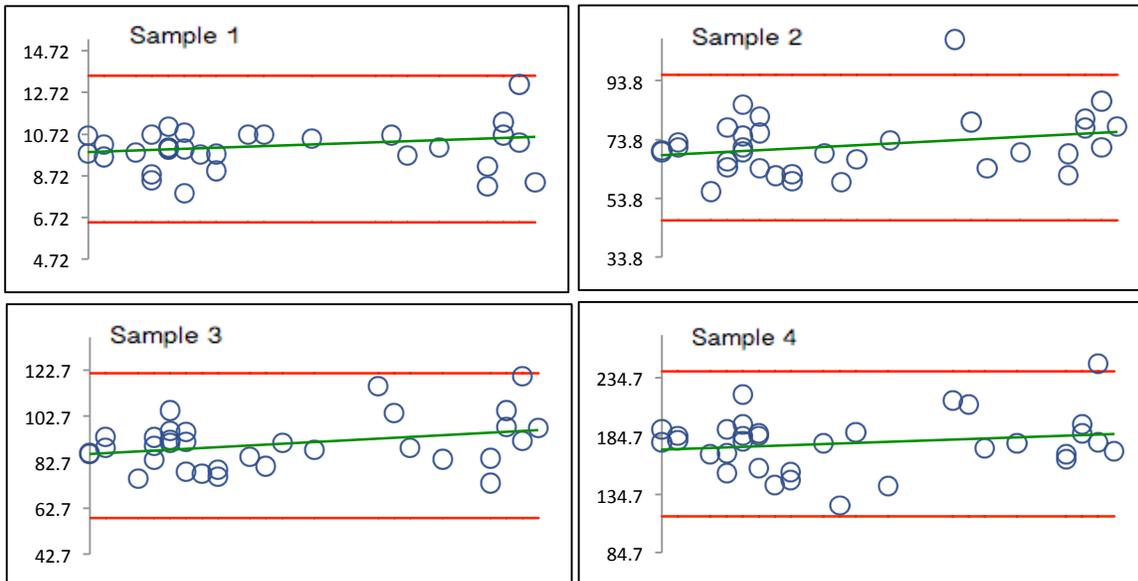


Kernel Density Plots



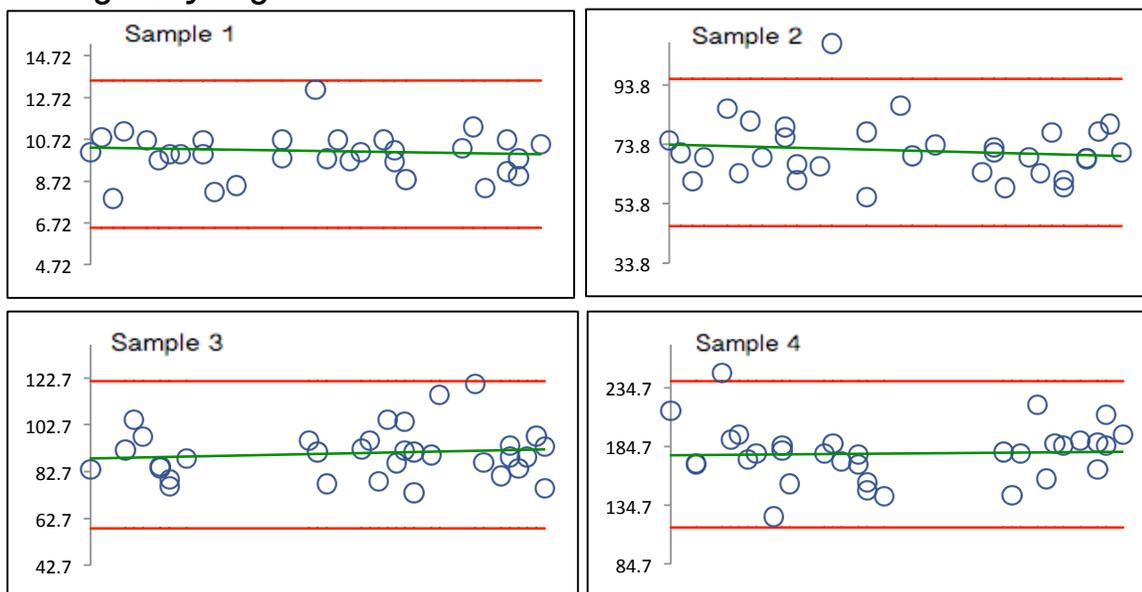
TOLUENE

Stability Regression



Reported results (Y-axis) plotted against reported analysis date (X-axis)

Homogeneity Regression



Reported results (Y-axis) plotted against bottling order (X-axis).

TRANS-1,2-DICHLOROETHYLENE

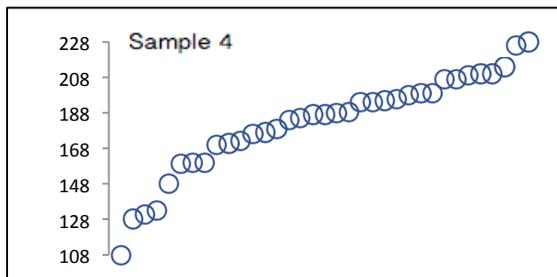
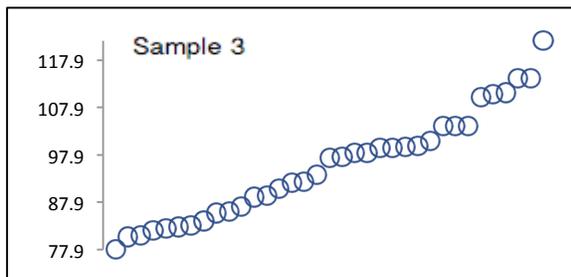
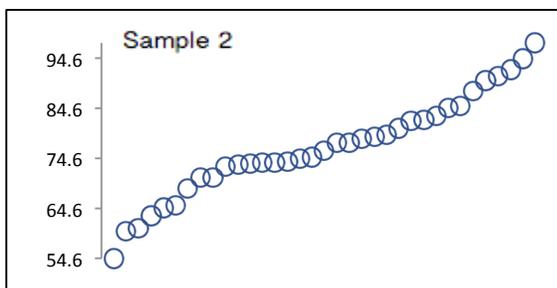
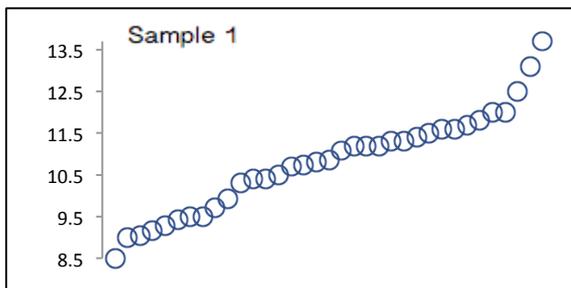
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	35	35	35	35
Median	10.9	76.1	97.3	187
Robust Mean	10.8	76.8	95.2	184
U	0.26	2.22	2.58	5.49
Robust Standard Deviation	1.23	10.5	12.2	26.0
Regression Standard Deviation	1.88	13.4	16.7	32.3
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA)	1.88	13.4	16.7	32.3
Outliers	0	0	0	0
z >3.0	0	0	0	0
2< z <3	0	0	0	1

Methods Used

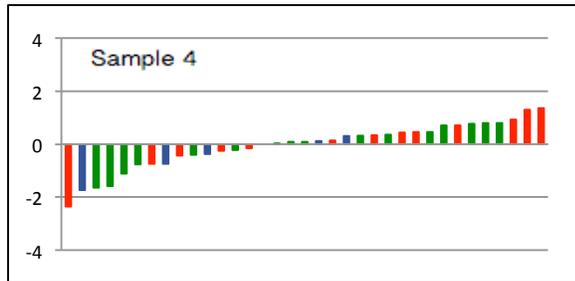
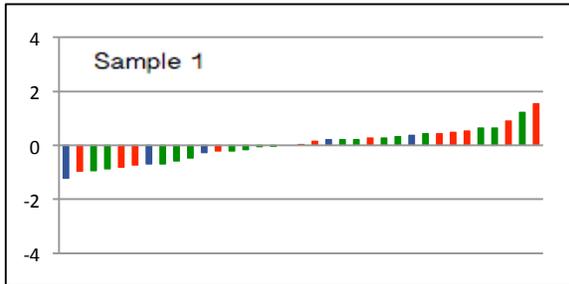
Method	C36-1	C36-2	C36-3	C36-4
GC/MSE	5	5	5	5
HS-GCMS	13	13	13	13
P/T-GCMS	17	17	17	17

All summary stats and the plots below are based on the data excluding any flagged outliers

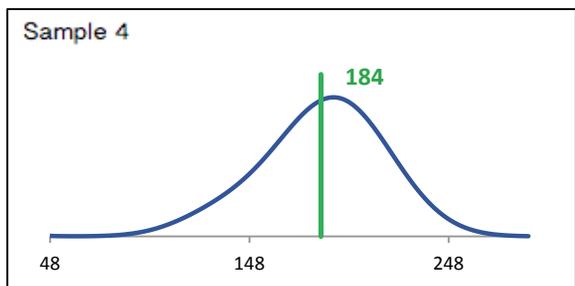
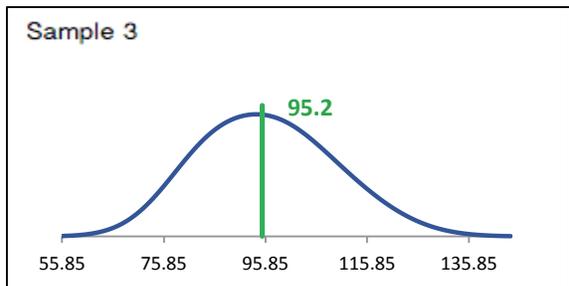
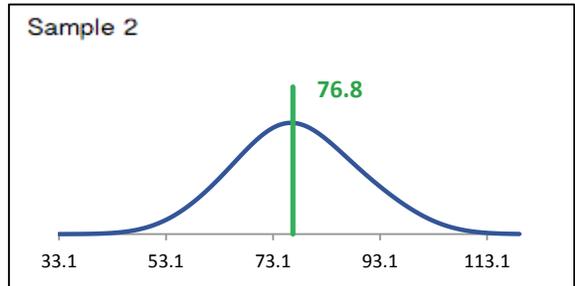
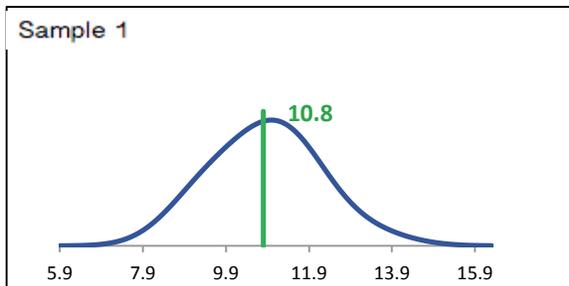


TRANS-1,2-DICHLOROETHYLENE

z-Score Plots

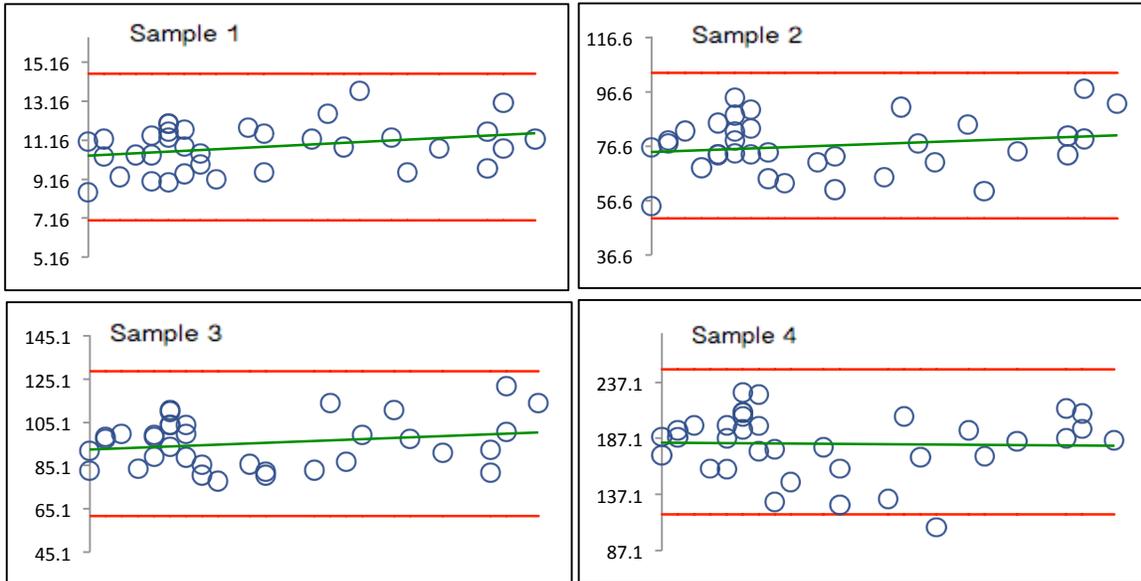


Kernel Density Plots



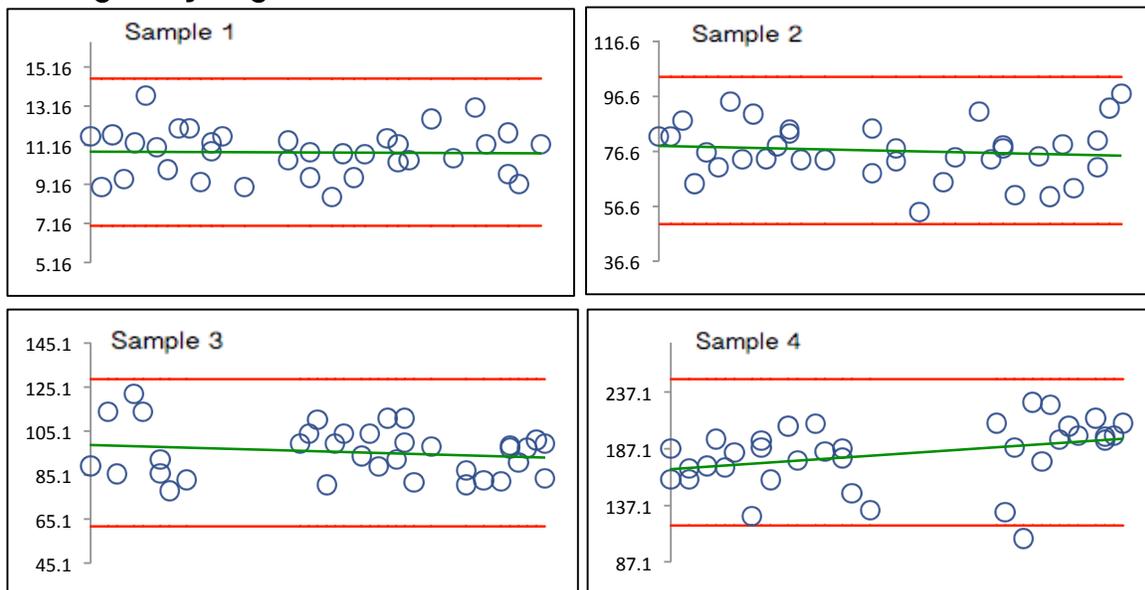
TRANS-1,2-DICHLOROETHYLENE

Stability Regression



Reported results (Y-axis) plotted against reported analysis date (X-axis)

Homogeneity Regression



Reported results (Y-axis) plotted against bottling order (X-axis).

TRANS-1,3-DICHLOROPROPENE

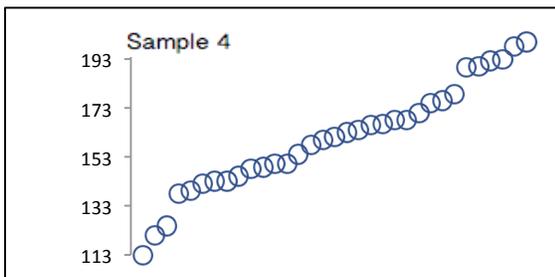
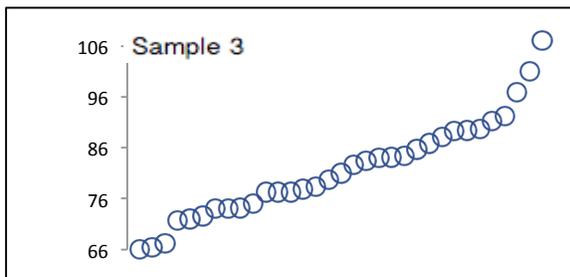
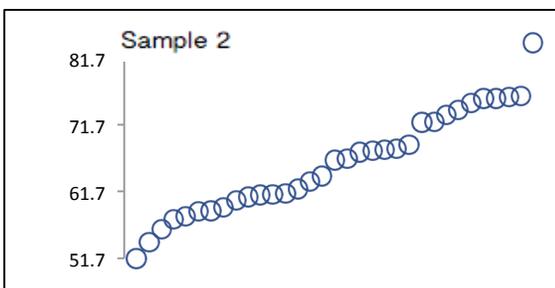
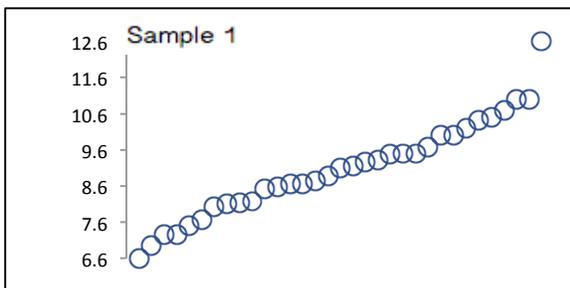
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	33	33	33	33
Median	9.10	66.4	81.0	161
Robust Mean	9.03	65.8	81.2	161
U	0.30	1.83	2.17	5.30
Robust Standard Deviation	1.37	8.2	9.7	23.6
Regression Standard Deviation	1.58	11.5	14.2	28.2
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA)	1.58	11.5	14.2	28.2
Outliers	0	0	0	0
z >3.0	0	0	0	0
2< z <3	1	0	0	0

Methods Used

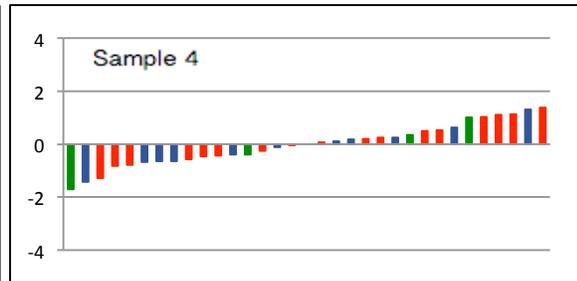
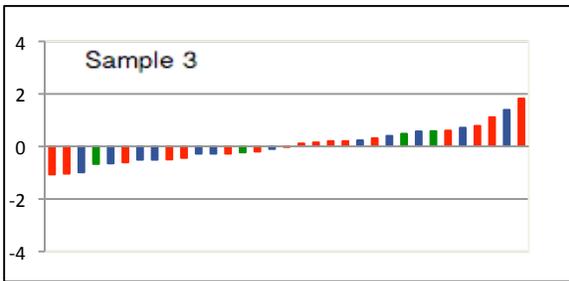
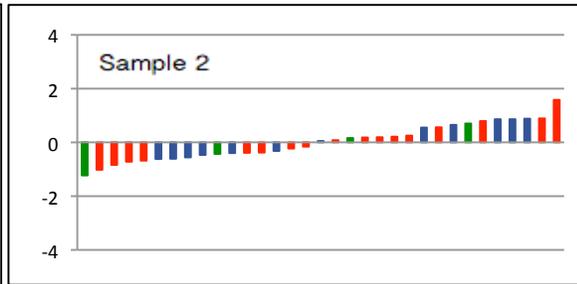
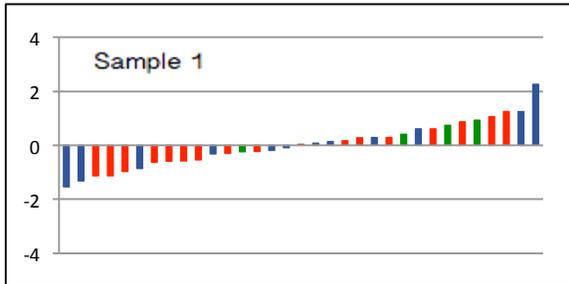
Method	C36-1	C36-2	C36-3	C36-4
HS-GCMS	12	12	12	12
P/T-GCMS	17	17	17	17
GC/MSE	4	4	4	4

All summary stats and the plots below are based on the data excluding any flagged outliers

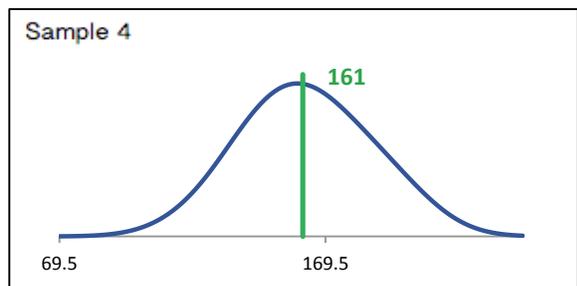
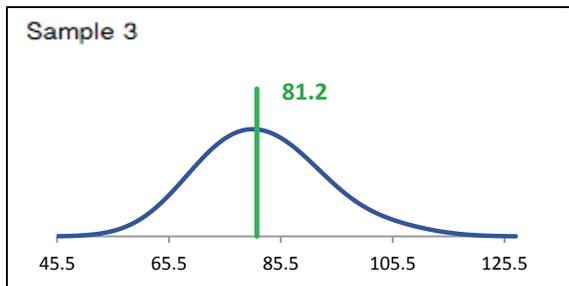
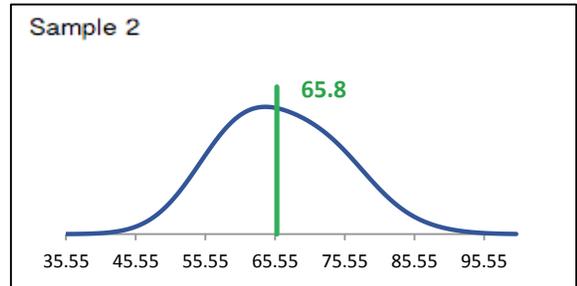
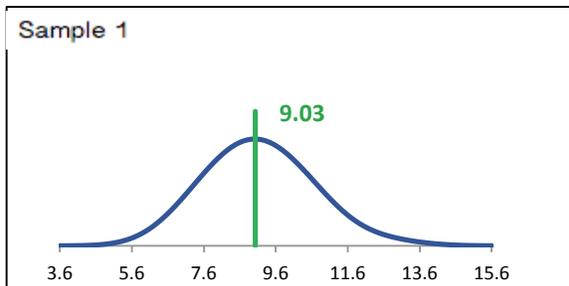


TRANS-1,3-DICHLOROPROPENE

z-Score Plots

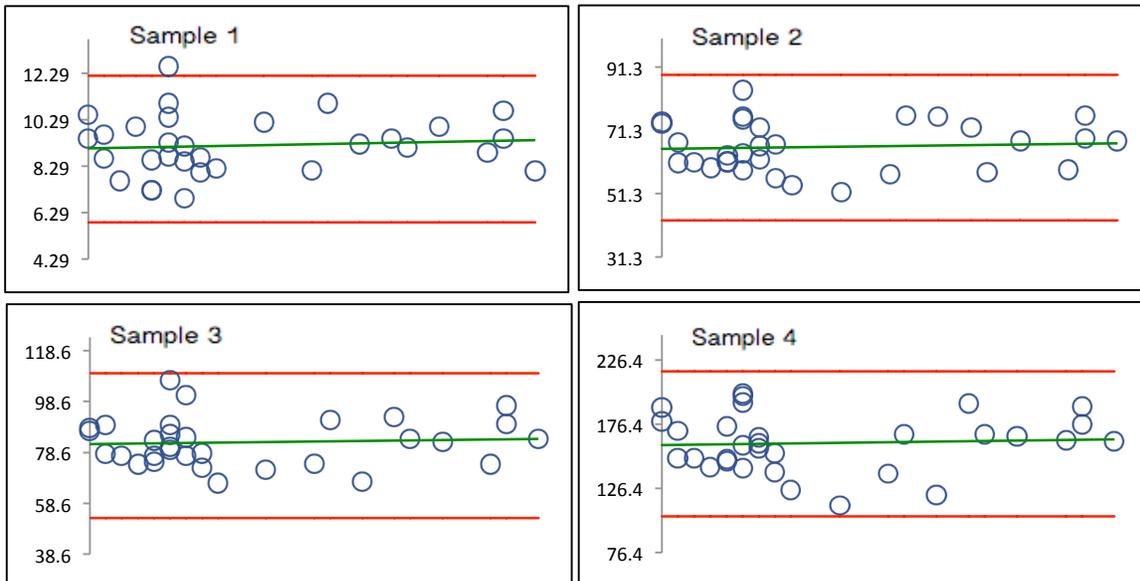


Kernel Density Plots



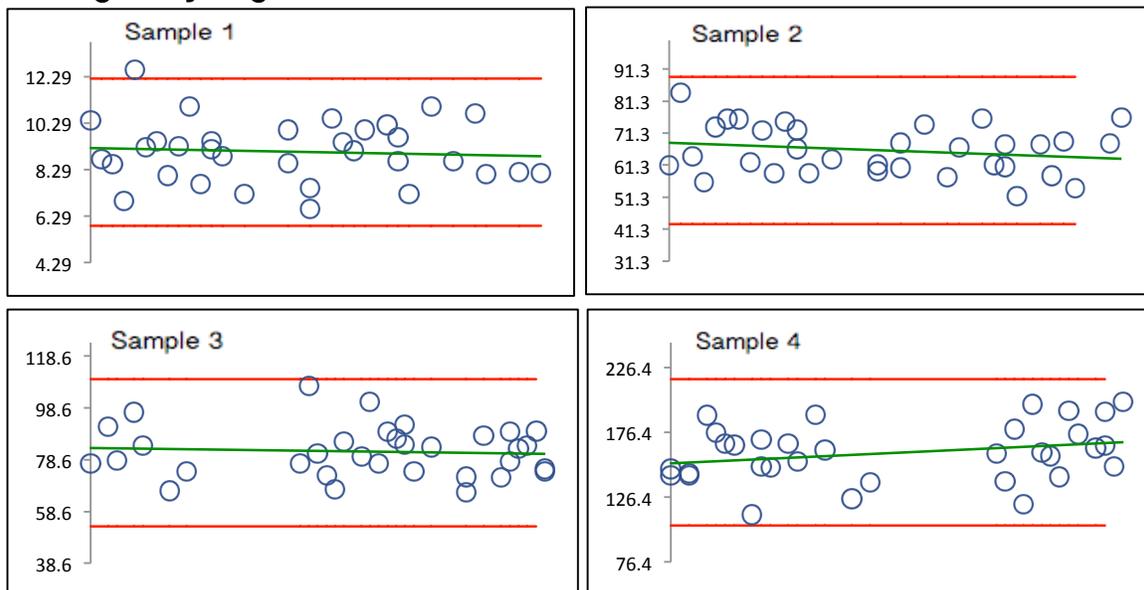
TRANS-1,3-DICHLOROPROPENE

Stability Regression



Reported results (Y-axis) plotted against reported analysis date (X-axis)

Homogeneity Regression



Reported results (Y-axis) plotted against bottling order (X-axis).

TRICHLOROETHYLENE

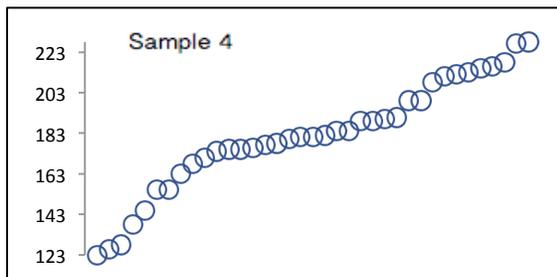
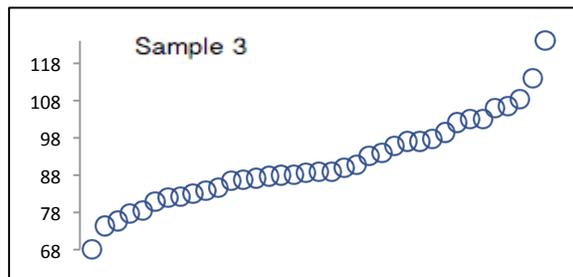
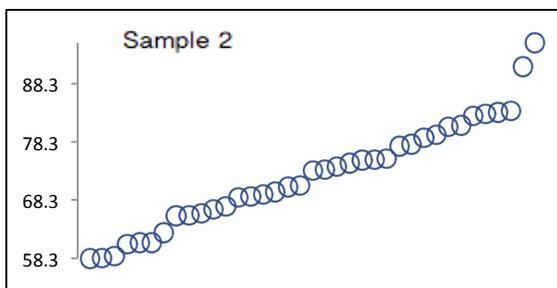
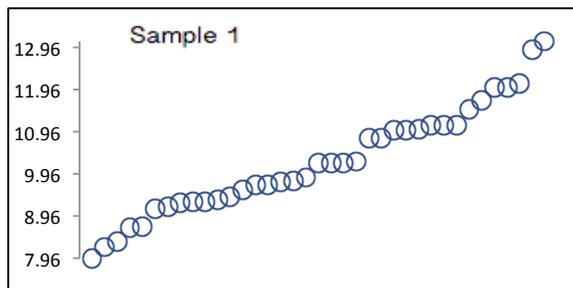
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	37	37	37	37
Median	10.2	73.4	88.9	181
Robust Mean	10.2	72.2	91.0	183
U	0.28	1.94	2.34	5.73
Robust Standard Deviation	1.34	9.46	11.4	27.9
Regression Standard Deviation	2.04	14.4	18.2	36.6
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA)	2.04	14.4	18.2	36.6
Outliers	0	0	0	0
z >3.0	0	0	0	0
2< z <3	0	0	0	0

Methods Used

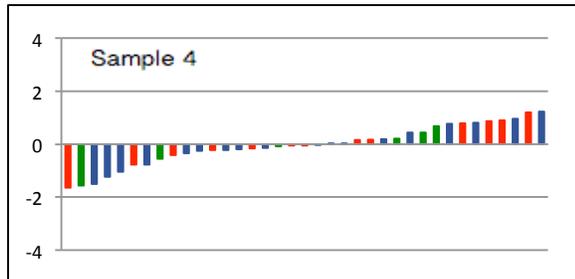
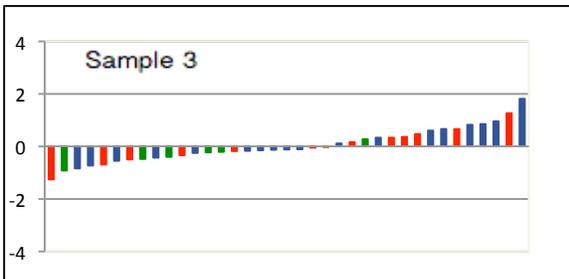
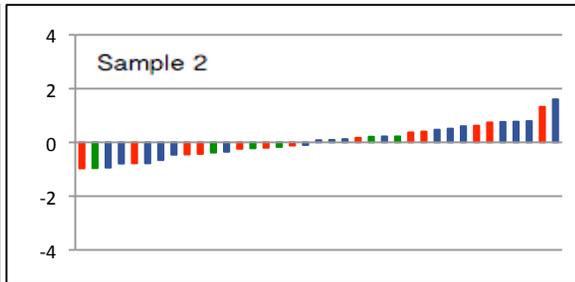
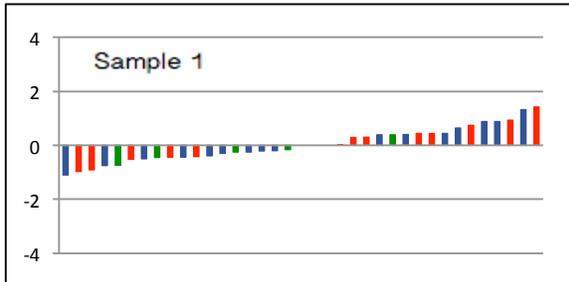
Method	C36-1	C36-2	C36-3	C36-4
P/T-GCMS	18	18	18	18
HS-GCMS	13	13	13	13
GC/MSE	6	6	6	6

All summary stats and the plots below are based on the data excluding any flagged outliers

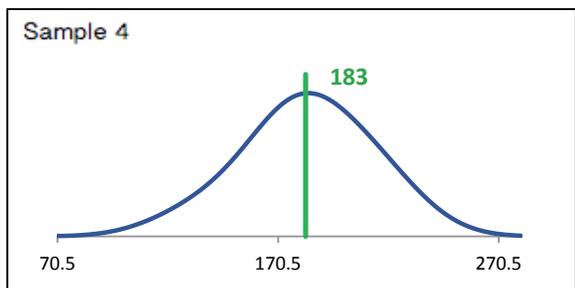
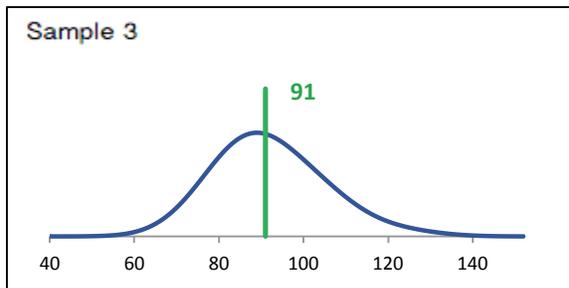
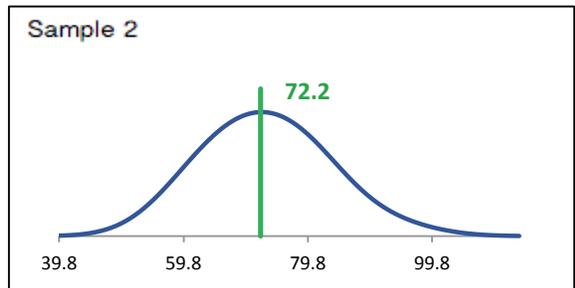
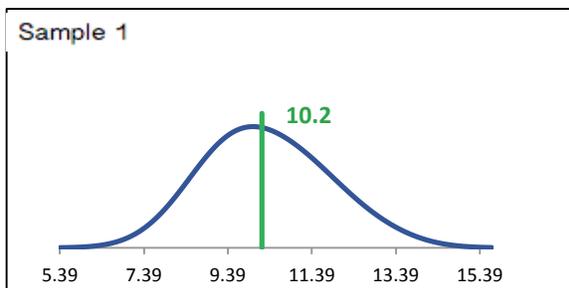


TRICHLOROETHYLENE

z-Score Plots

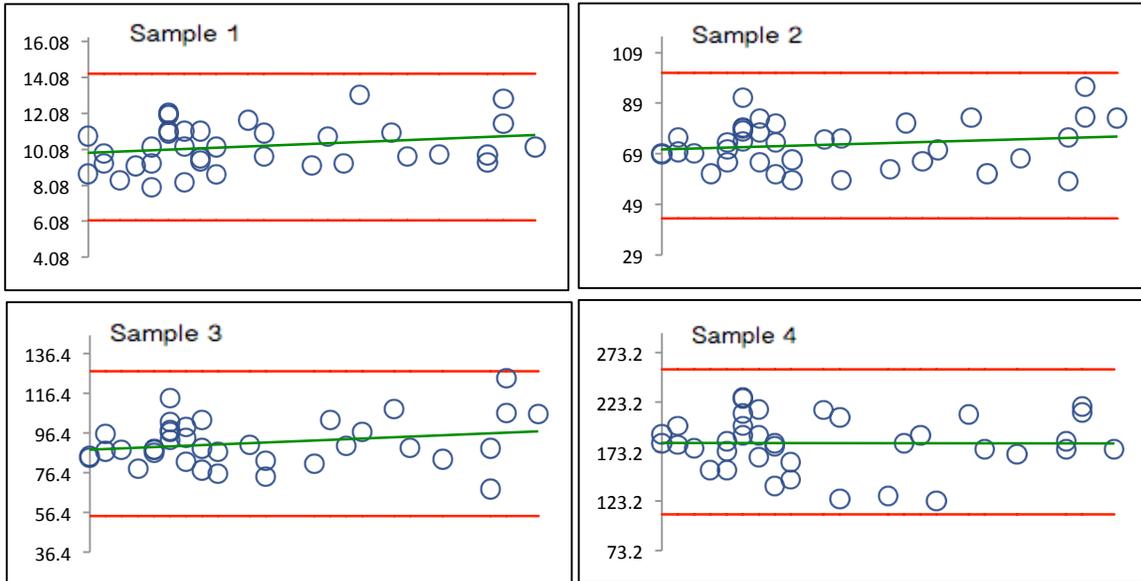


Kernel Density Plots



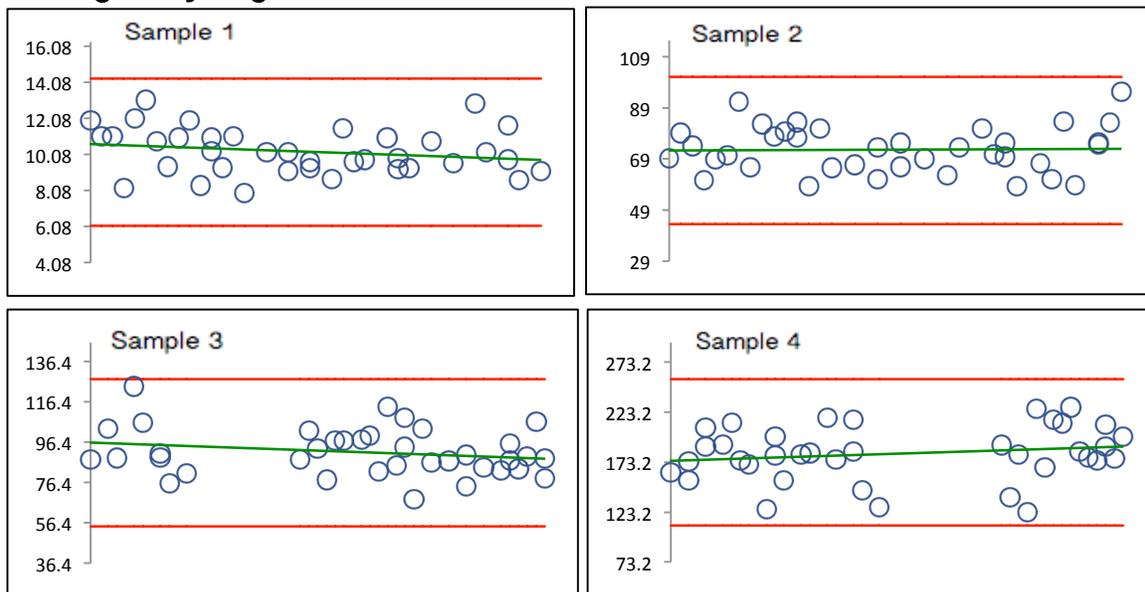
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Stability Regression



Reported results (Y-axis) plotted against reported analysis date (X-axis)

Homogeneity Regression



Reported results (Y-axis) plotted against bottling order (X-axis).

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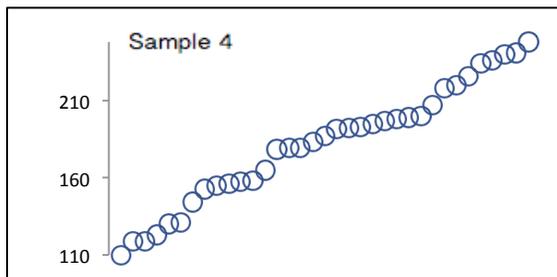
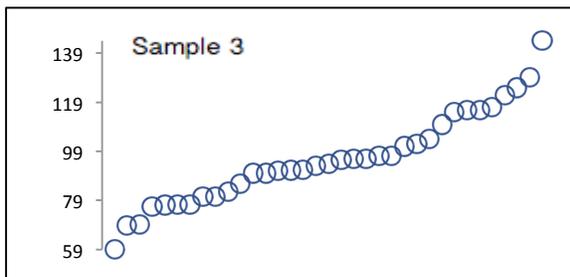
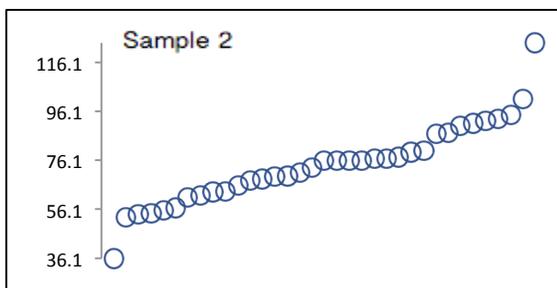
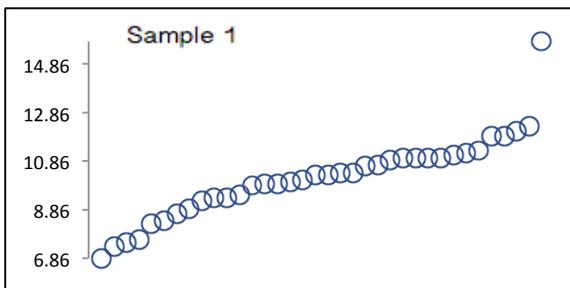
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	36	35	35	35
Median	10.3	75.8	94.0	187
Robust Mean	10.1	73.8	95.4	182
U	0.31	3.27	4.01	9.17
Robust Standard Deviation	1.49	15.50	19.0	43.4
Regression Standard Deviation	2.53	18.4	23.9	45.5
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA)	2.53	18.4	23.9	45.5
Outliers	0	1	1	1
z >3.0	0	0	0	0
2< z <3	1	2	1	0

Methods Used

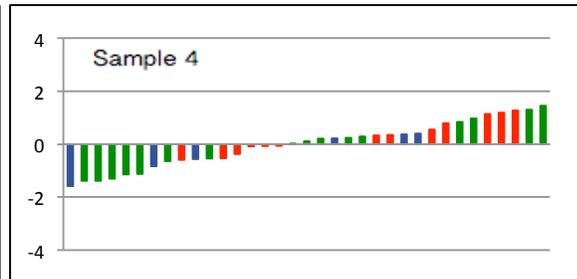
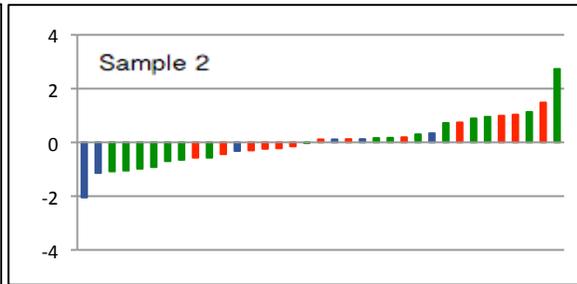
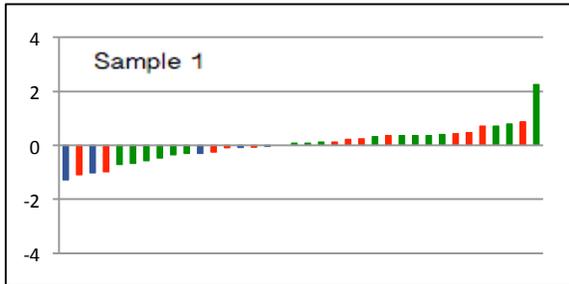
Method	C36-1	C36-2	C36-3	C36-4
GC/MSE	6	6	6	6
HS-GCMS	13	13	13	13
P/T-GCMS	17	16	16	16

All summary stats and the plots below are based on the data excluding any flagged outliers

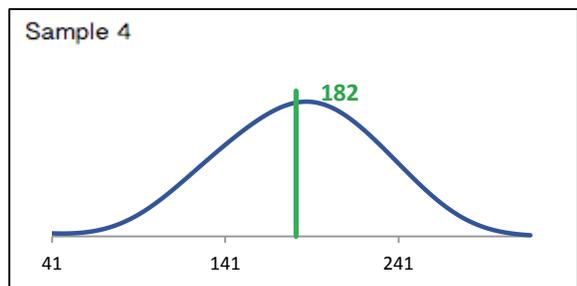
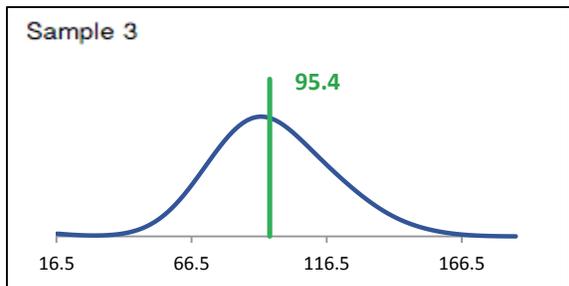
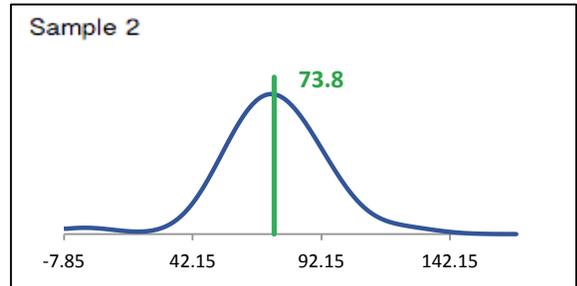
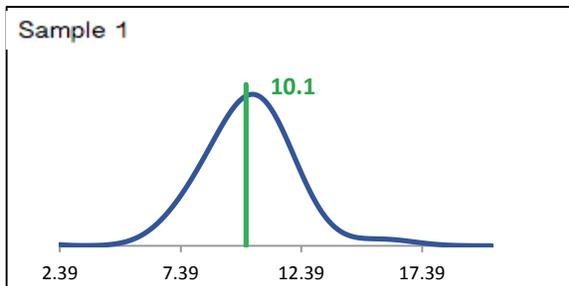


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z-Score Plots

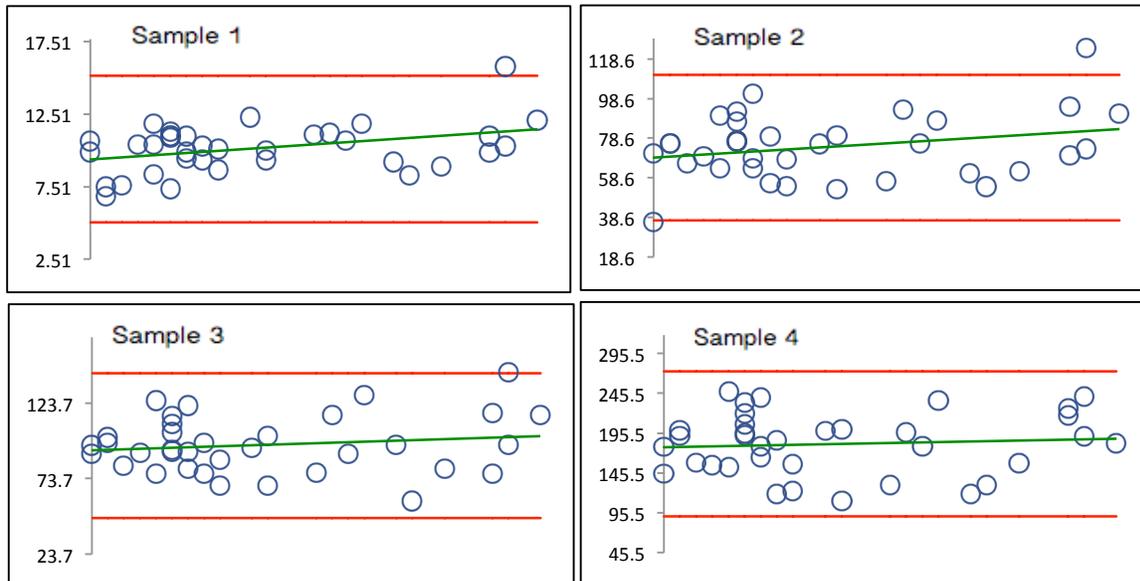


Kernel Density Plots



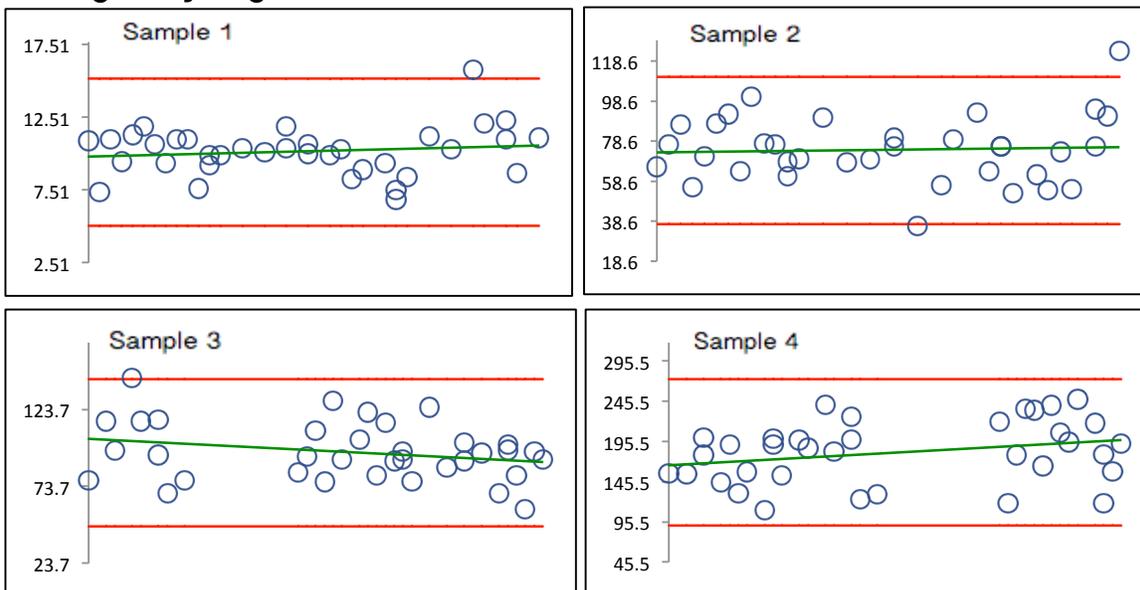
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Stability Regression



Reported results (Y-axis) plotted against reported analysis date (X-axis)

Homogeneity Regression



Reported results (Y-axis) plotted against bottling order (X-axis).