

Test Group Summary Report

C36 VOCs in Soil

January 2024 PT Round

Issued: March 5, 2024

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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 is 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>$\pm U$:</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 – *Conformity assessment- General requirements for the competence of proficiency testing providers*, 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.PTCanada.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.

$$RSZ = \frac{\sum z}{\sqrt{N}} \quad \text{where } \begin{array}{l} z = \text{the z- score} \\ N = \text{the number of samples} \end{array}$$

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.

4.5 BOX-AND-WHISKER PLOTS

Box-and-Whisker plots are another way to display the distribution of the data. The box denotes the first and third quartile and the whiskers are the 5th and 95th percentile.

4.6 HISTORIC COMPARISON PLOT

The Historic Comparison Plot is a plot of robust mean against robust standard deviation for the previous ten PT rounds as well as the current PT round. This plot can be used to identify possible changes in the sample formulation.

1,1,1-TRICHLOROETHANE

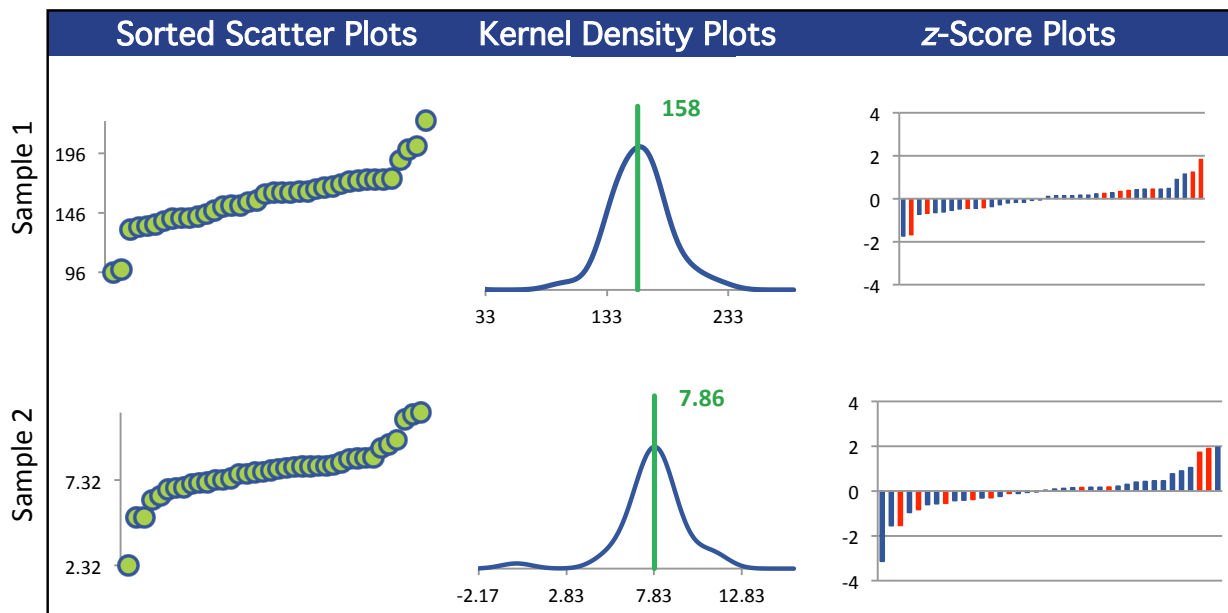
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	38	38	38	38
Median $\mu\text{g/g}$	163	7.96	70.7	103
Robust Mean $\mu\text{g/g}$	158	7.86	69.6	104
U $\mu\text{g/g}$	4.06	0.235	1.73	2.68
Robust Standard Deviation $\mu\text{g/g}$	20.0	1.16	8.55	13.2
Regression Standard Deviation $\mu\text{g/g}$	35.5	1.77	15.7	23.5
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) $\mu\text{g/g}$	35.5	1.77	15.7	23.5
Outliers	0	0	0	0
$ z > 3.0$	0	1	0	0
$2 < z < 3$	0	0	0	2

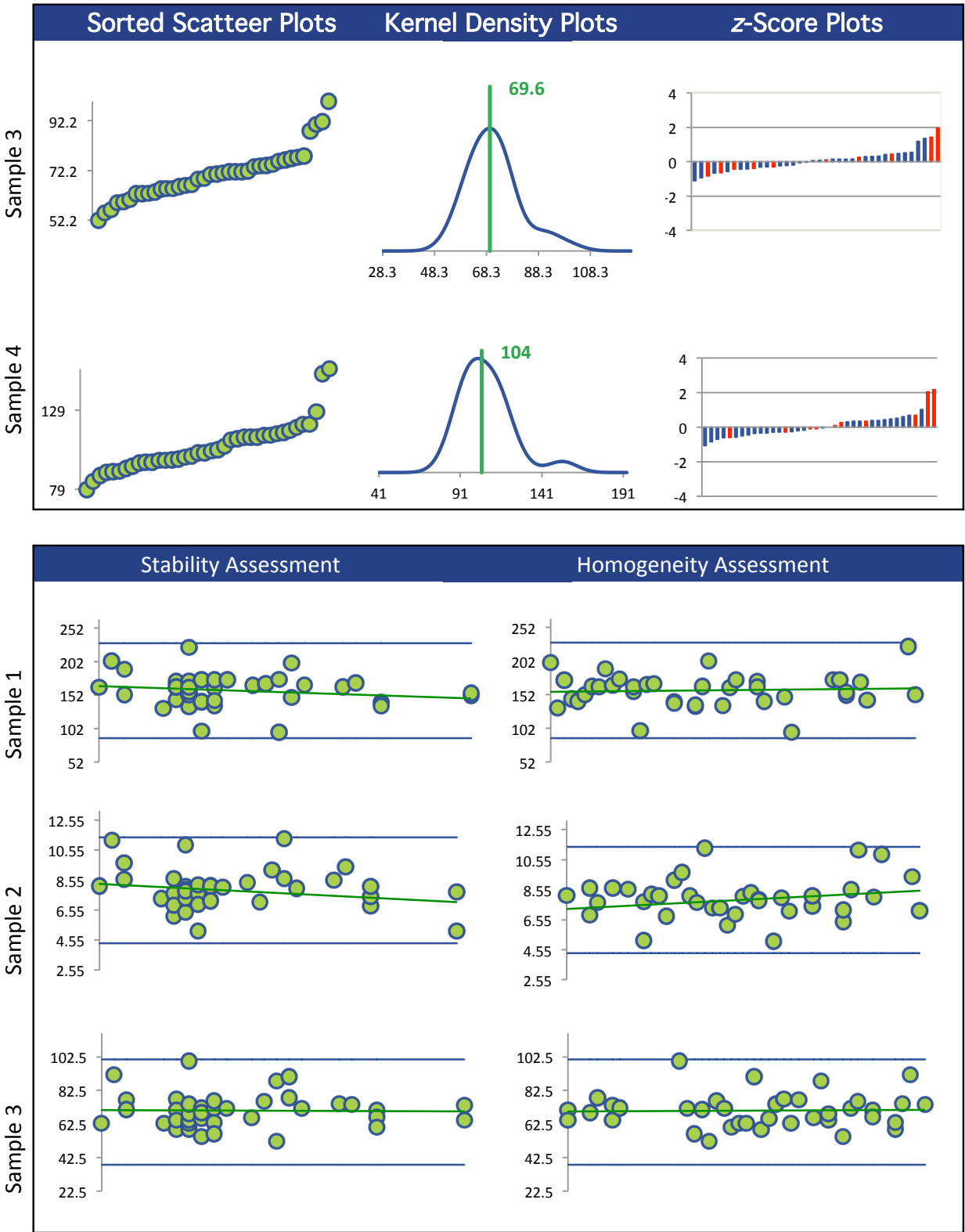
Methods Used

Method	C36-1	C36-2	C36-3	C36-4
GC/MS - PURGE AND TRAP (Blue)	18	18	18	18
GC/MS - HEADSPACE (Red)	16	16	16	16
GC/MS (Green)	4	4	4	4

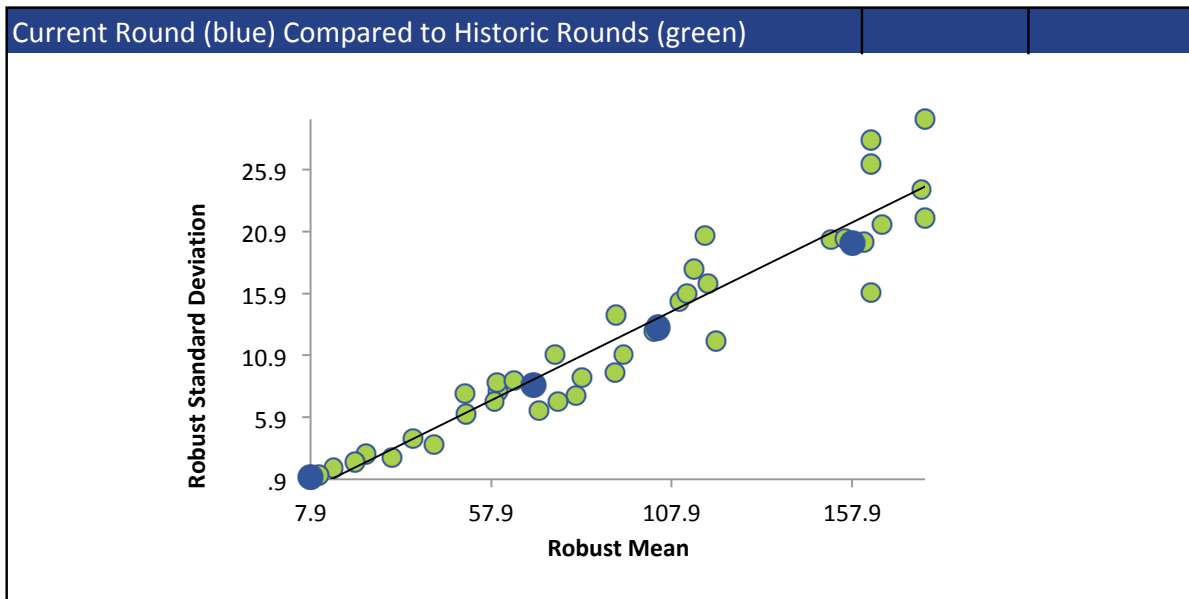
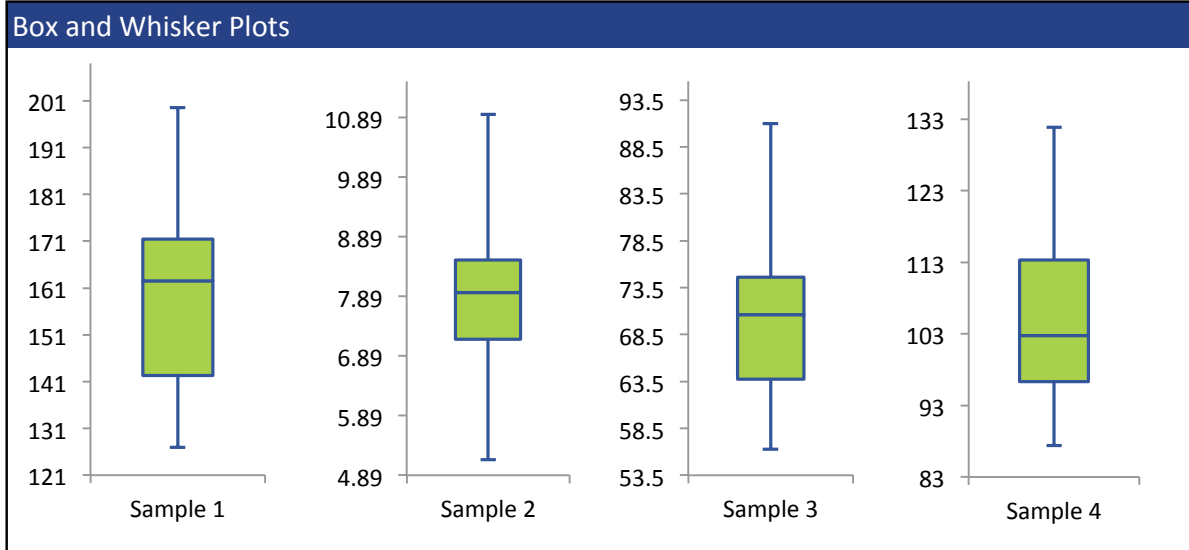
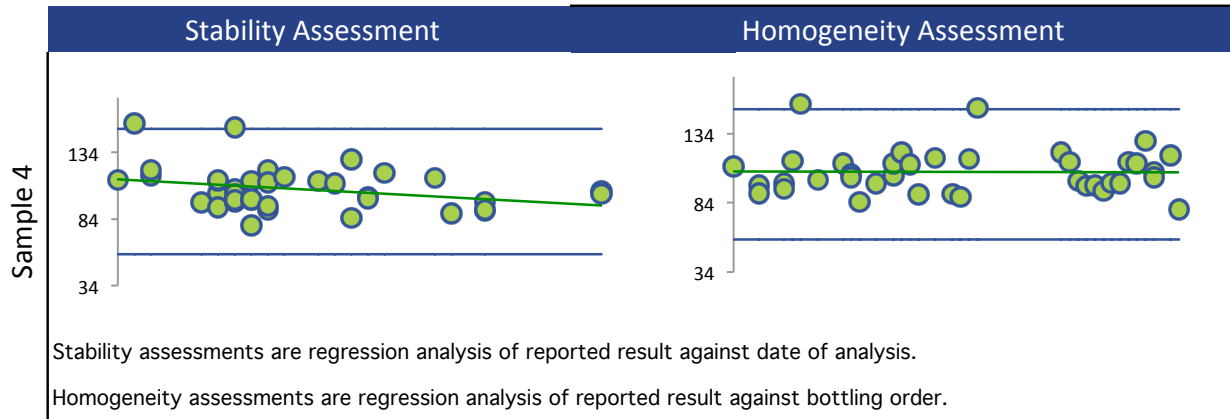
All summary stats and the plots below are based on the data excluding any flagged outliers



1,1,1-TRICHLOROETHANE



1,1,1-TRICHLOROETHANE



1,1,2,2-TETRACHLOROETHANE

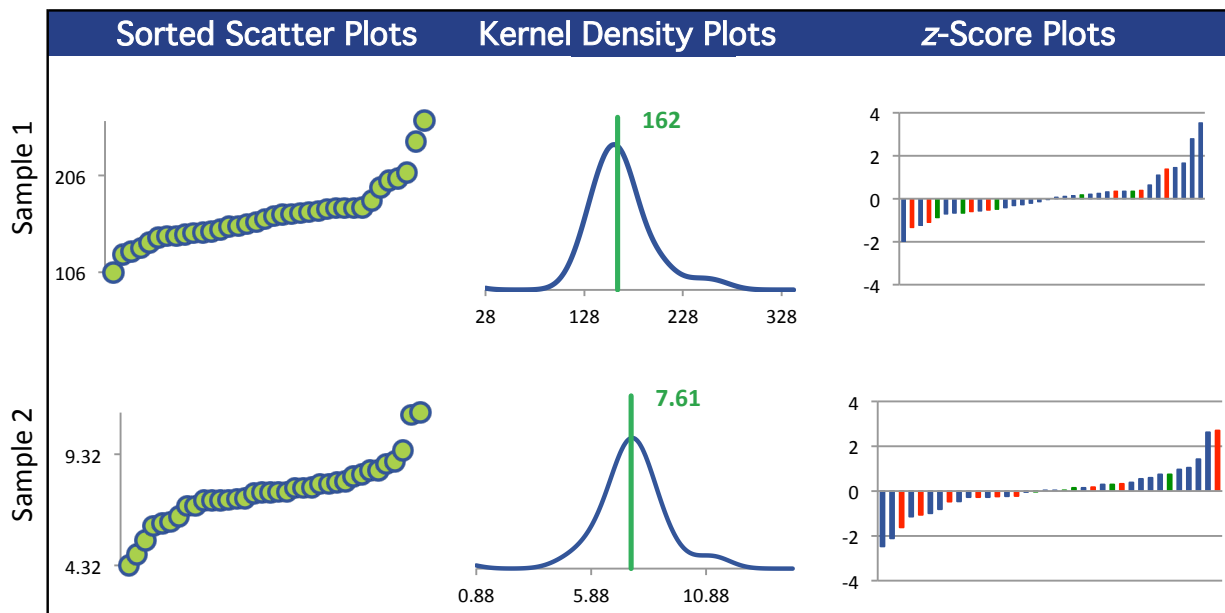
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	36	36	36	36
Median $\mu\text{g/g}$	163	7.63	68.8	106
Robust Mean $\mu\text{g/g}$	162	7.61	68.5	104
U $\mu\text{g/g}$	5.17	0.225	1.84	2.77
Robust Standard Deviation $\mu\text{g/g}$	24.8	1.08	8.81	13.3
Regression Standard Deviation $\mu\text{g/g}$	28.3	1.33	12.0	18.2
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) $\mu\text{g/g}$	28.3	1.33	12.0	18.2
Outliers	0	0	0	0
$ z > 3.0$	1	0	1	2
$2 < z < 3$	1	4	1	0

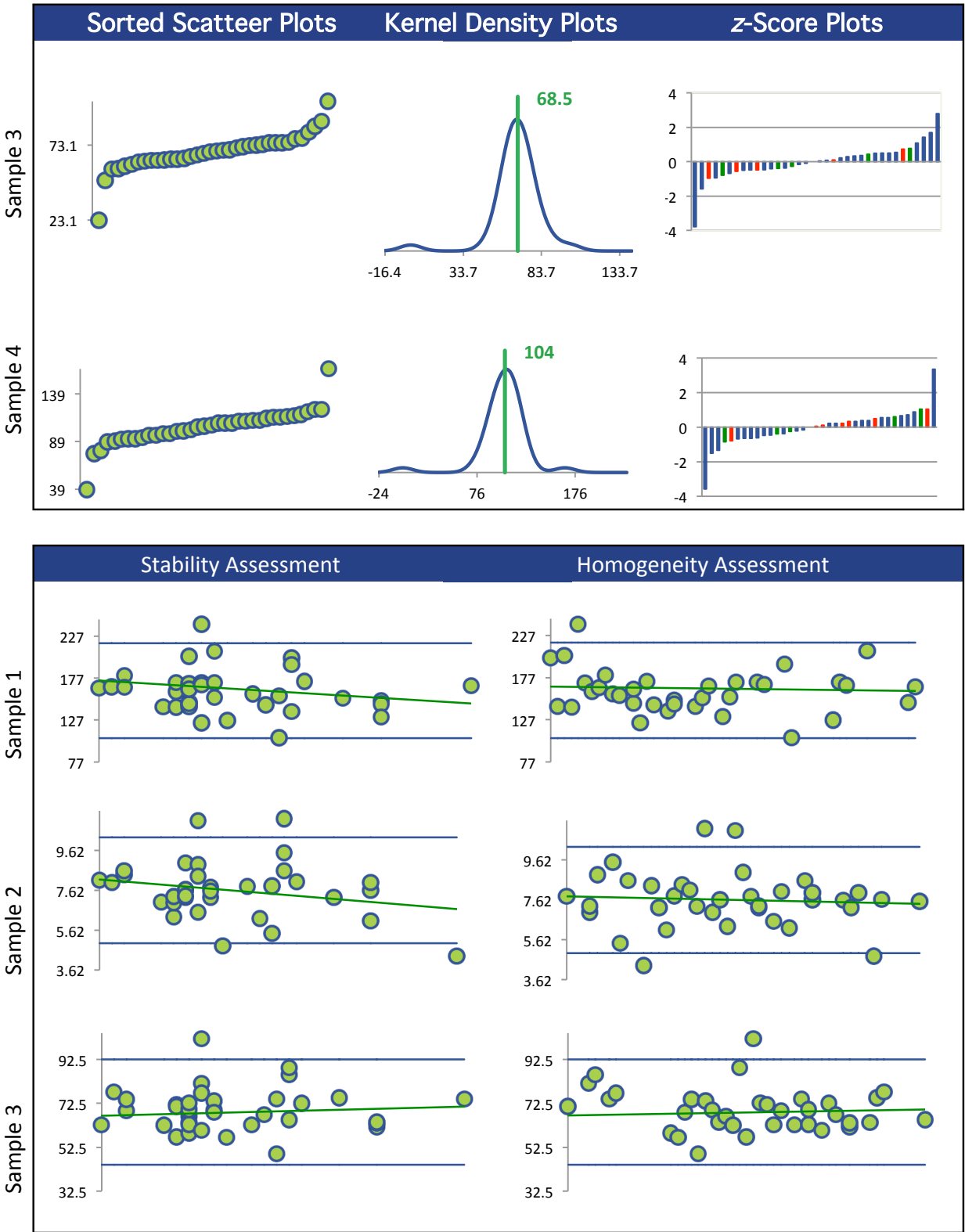
Methods Used

Method	C36-1	C36-2	C36-3	C36-4
GC/MS - PURGE AND TRAP (Blue)	18	18	18	18
GC/MS - HEADSPACE (Red)	13	13	13	13
GC/MS (Green)	5	5	5	5

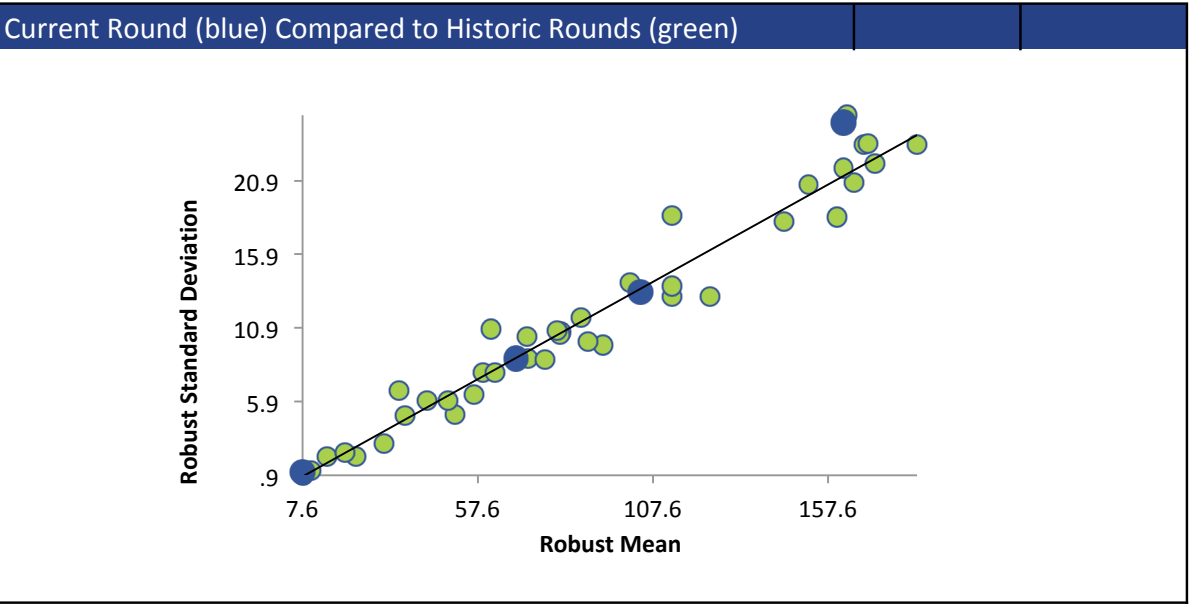
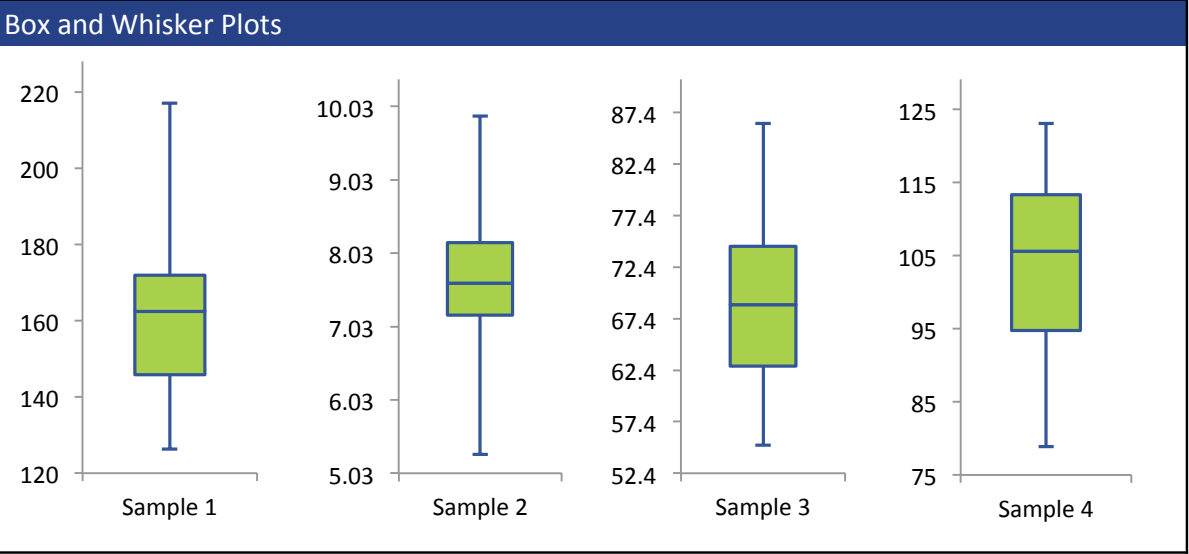
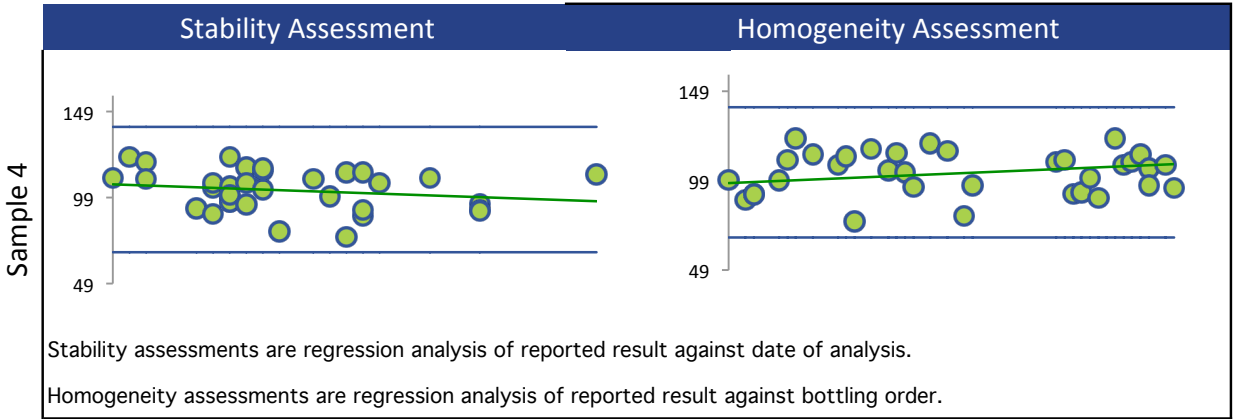
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1,1,2,2-TETRACHLOROETHANE



1,1,2,2-TETRACHLOROETHANE



1,1,2-TRICHLOROETHANE

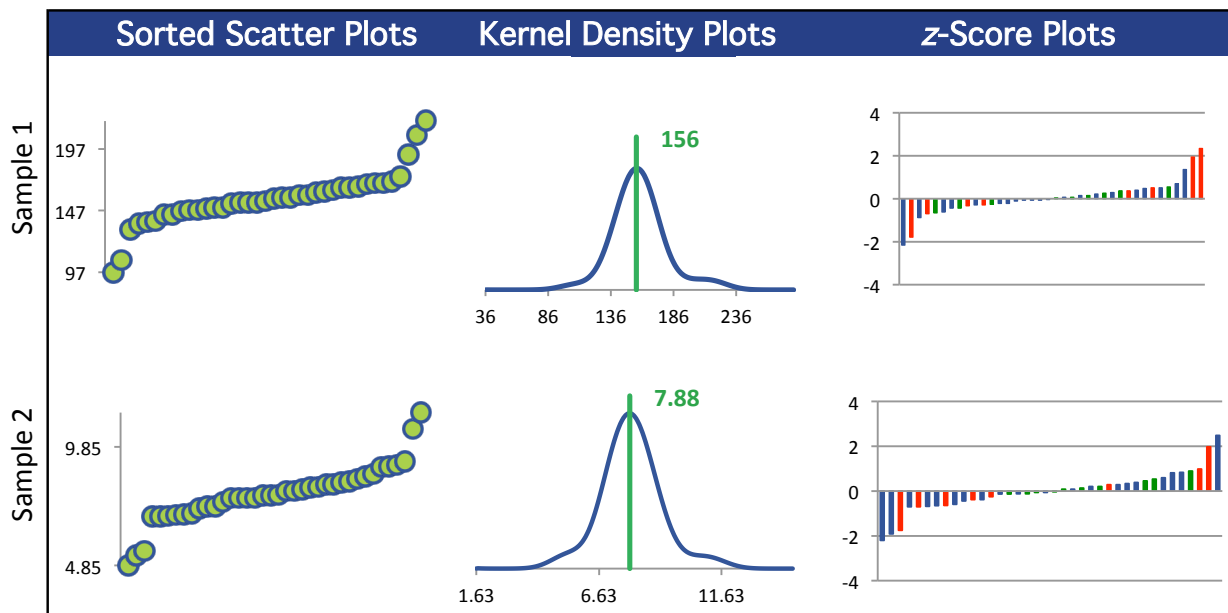
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	38	38	38	38
Median $\mu\text{g/g}$	156	7.82	67.4	105
Robust Mean $\mu\text{g/g}$	156	7.88	68.1	106
U $\mu\text{g/g}$	2.96	0.186	1.76	2.09
Robust Standard Deviation $\mu\text{g/g}$	14.6	0.915	8.69	10.3
Regression Standard Deviation $\mu\text{g/g}$	27.3	1.38	11.9	18.6
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) $\mu\text{g/g}$	27.3	1.38	11.9	18.6
Outliers	0	0	0	0
$ z > 3.0$	0	0	0	0
$2 < z < 3$	2	2	1	1

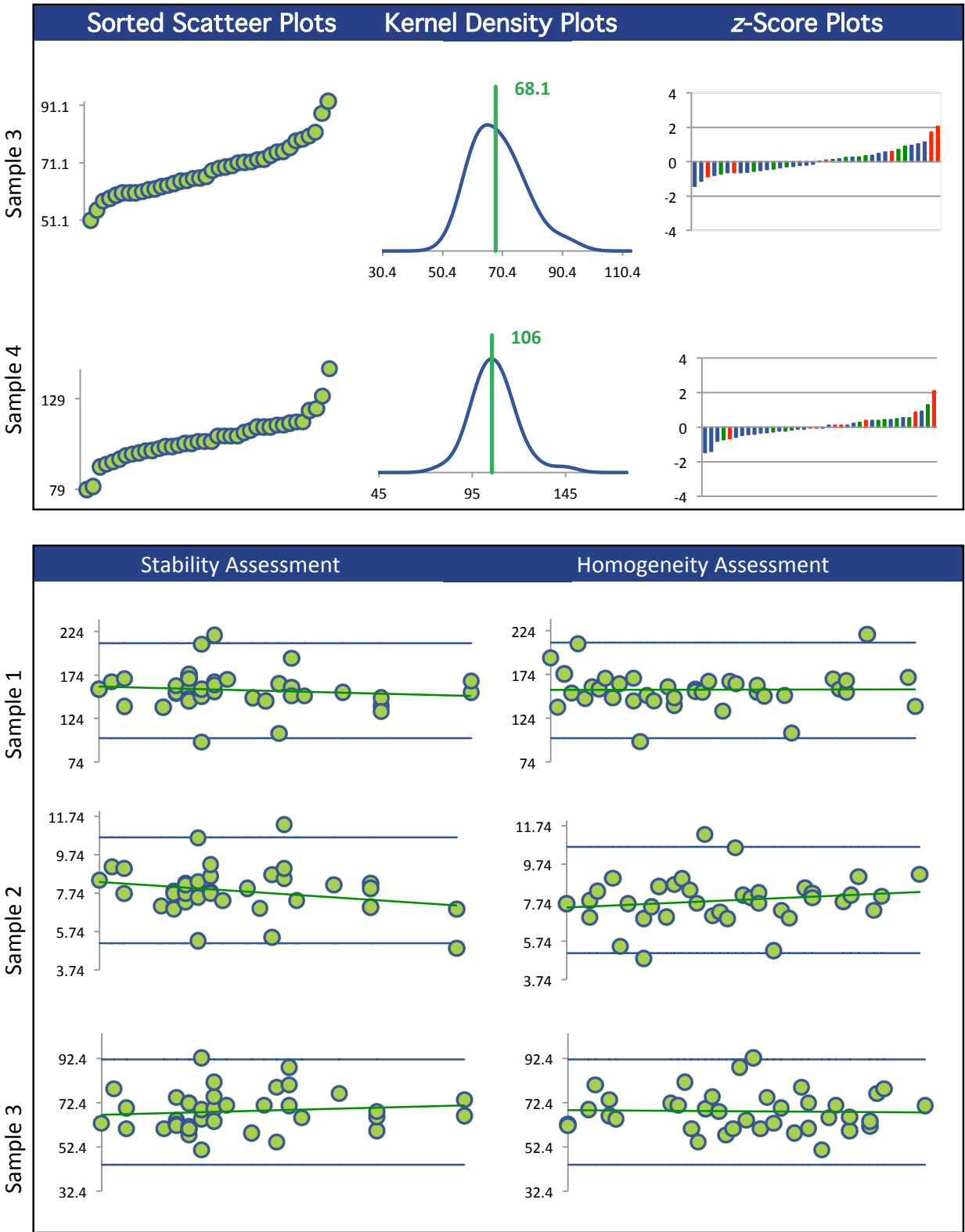
Methods Used

Method	C36-1	C36-2	C36-3	C36-4
GC/MS - HEADSPACE (Blue)	15	15	15	15
GC/MS - PURGE AND TRAP (Red)	18	18	18	18
GC/MS (Green)	5	5	5	5

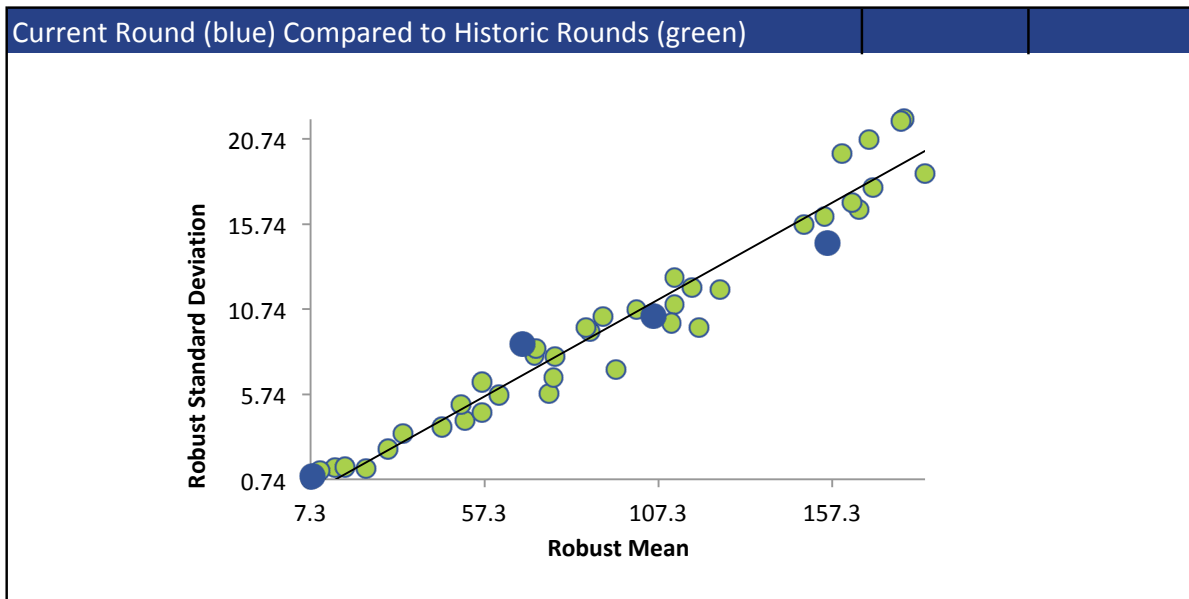
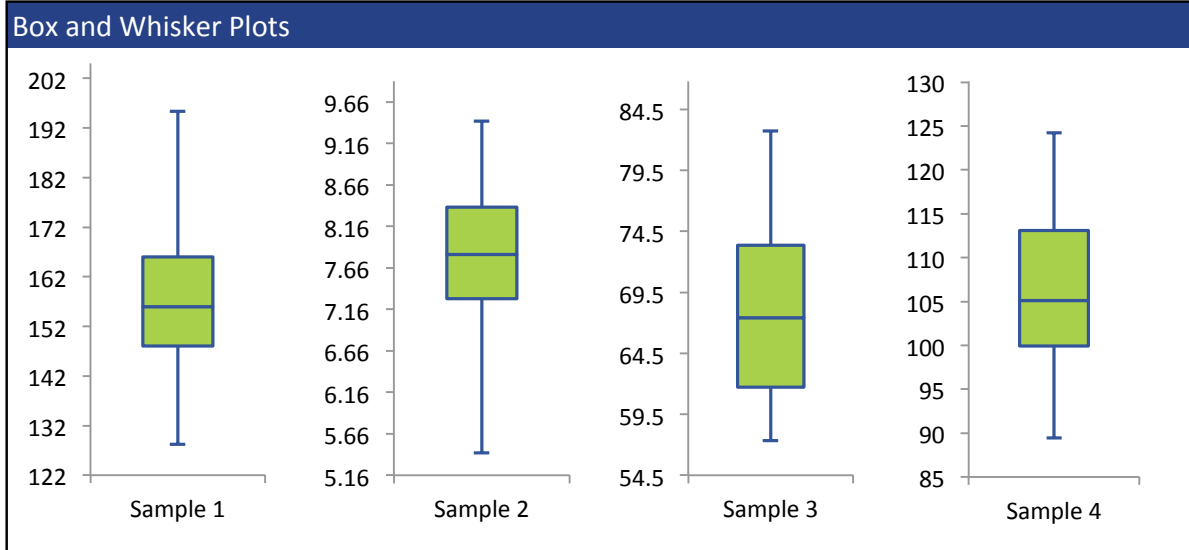
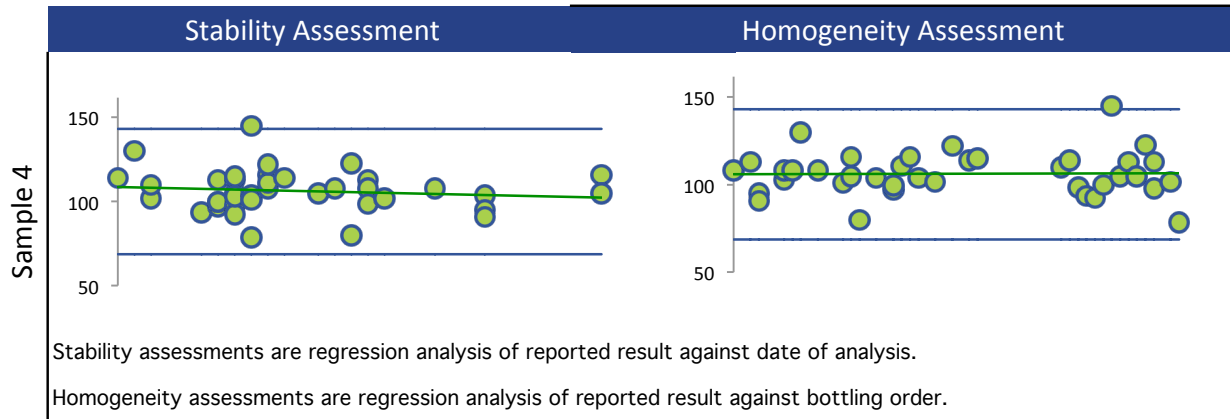
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1,1,2-TRICHLOROETHANE



1,1,2-TRICHLOROETHANE



1,1-DICHLOROETHANE

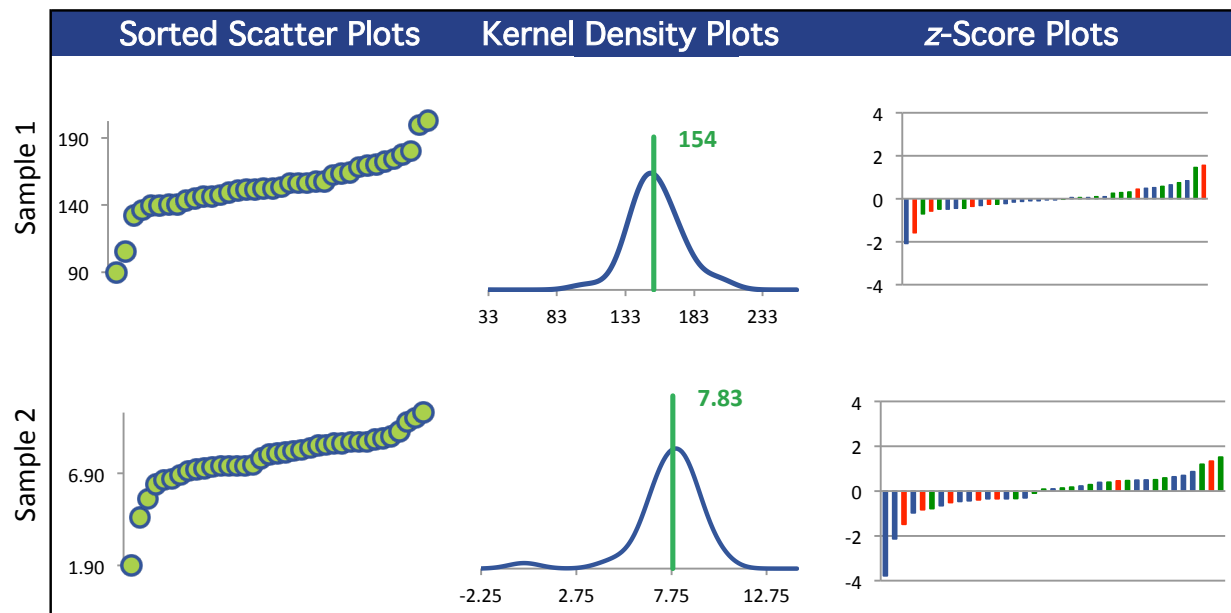
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	37	37	37	37
Median $\mu\text{g/g}$	152	7.97	67.1	105
Robust Mean $\mu\text{g/g}$	154	7.83	67.8	105
U $\mu\text{g/g}$	3.31	0.234	1.68	2.47
Robust Standard Deviation $\mu\text{g/g}$	16.1	1.14	8.17	12.0
Regression Standard Deviation $\mu\text{g/g}$	30.8	1.57	13.6	21.0
Stability Flag				Stability
Homogeneity Flag				
Standard Deviation Used (SDPA) $\mu\text{g/g}$	30.8	1.57	13.6	21.2
Outliers	0	0	0	0
$ z > 3.0$	0	1	0	0
$2 < z < 3$	1	1	0	1

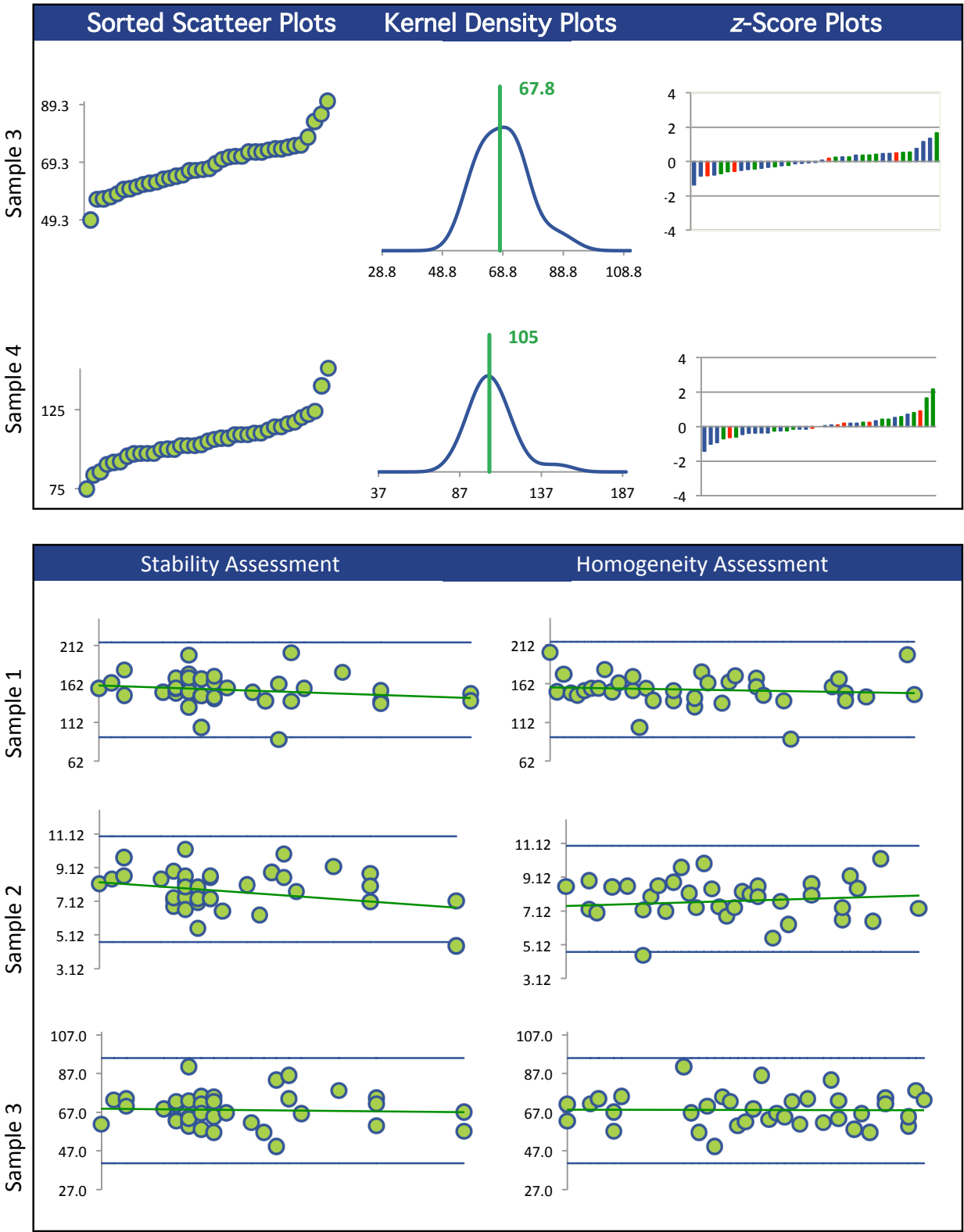
Methods Used

Method	C36-1	C36-2	C36-3	C36-4
GC/MS - PURGE AND TRAP (Blue)	18	18	18	18
GC/MS - HEADSPACE (Red)	15	15	15	15
GC/MS (Green)	4	4	4	4

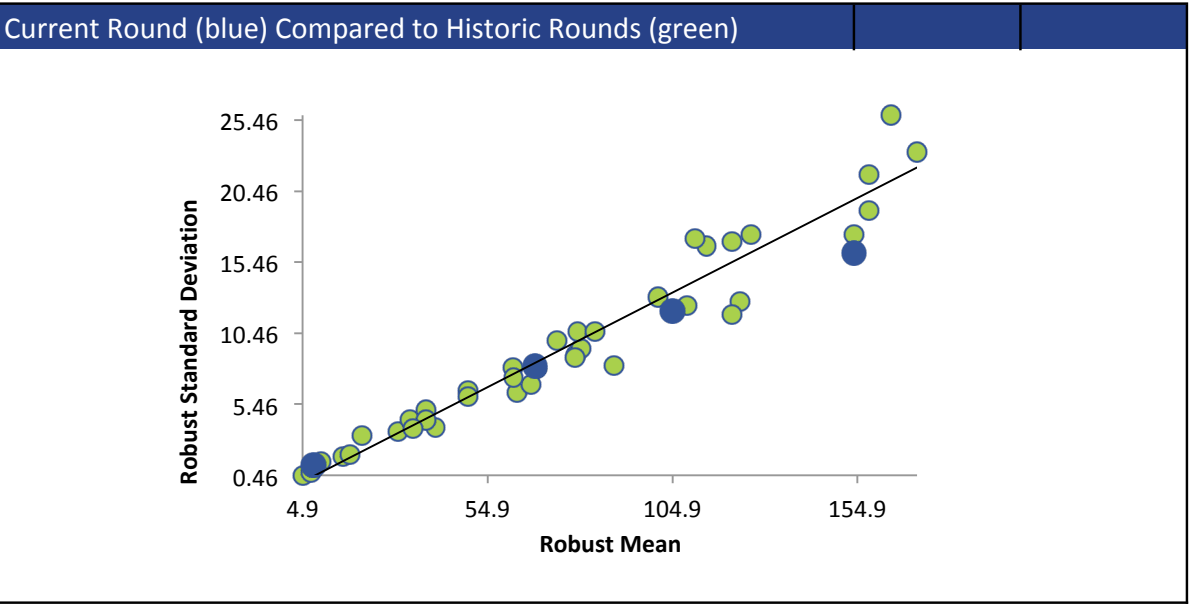
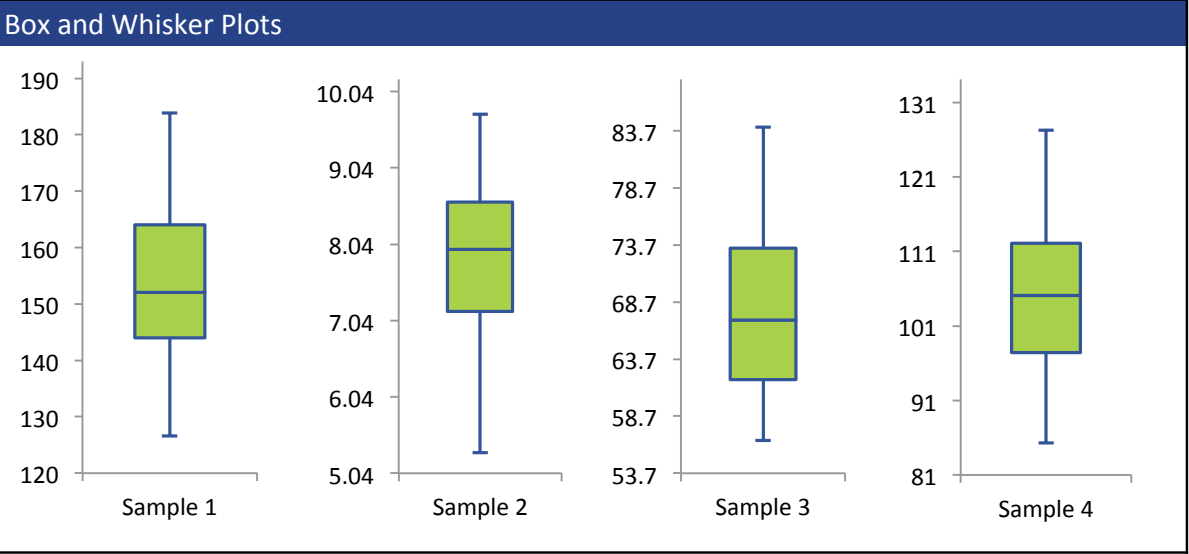
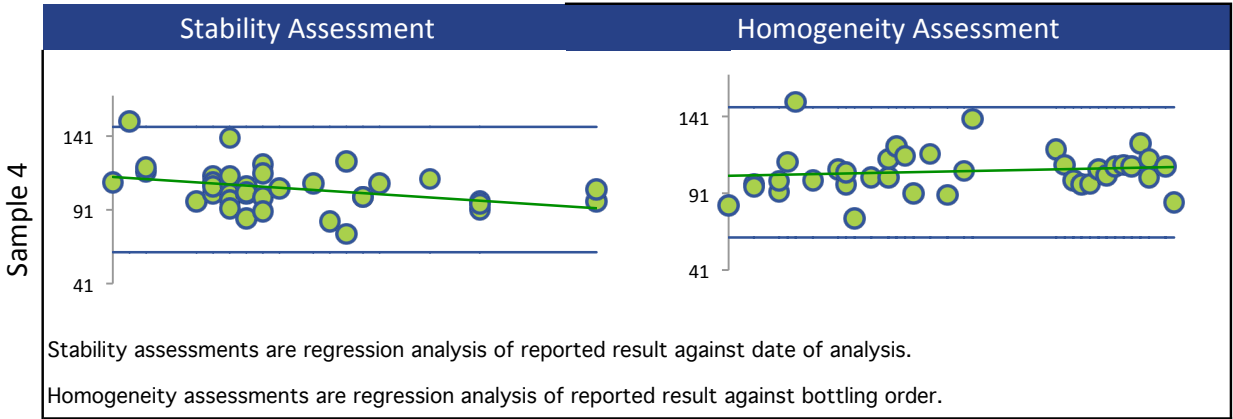
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1,1-DICHLOROETHANE



1,1-DICHLOROETHANE



1,1-DICHLOROETHYLENE

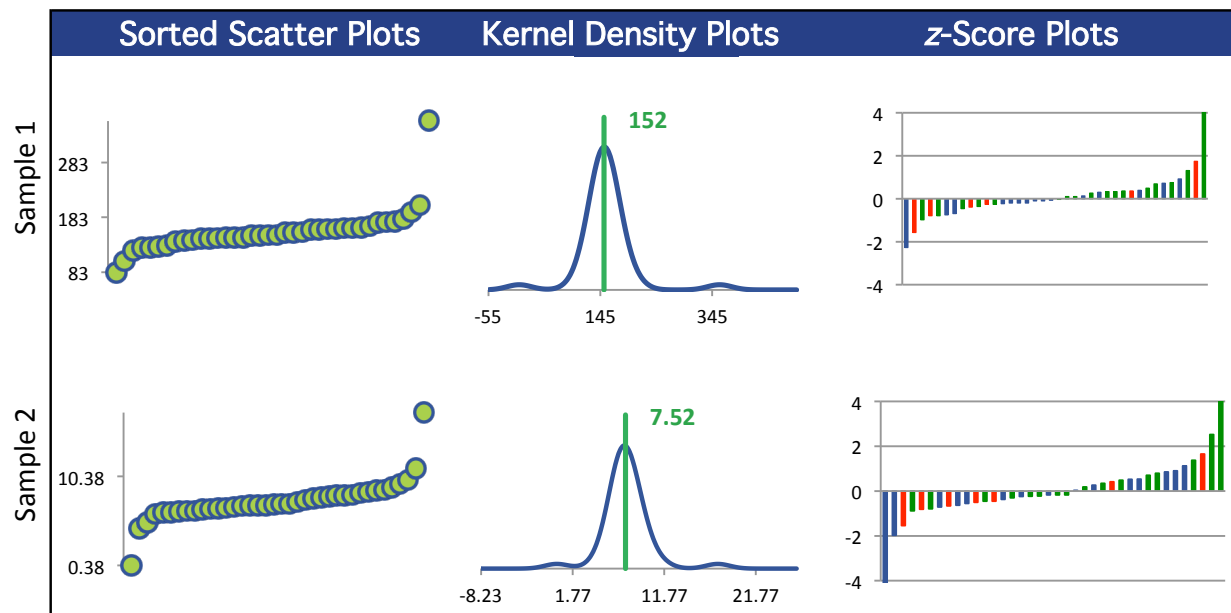
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	38	38	37	37
Median $\mu\text{g/g}$	151	7.27	68.0	106
Robust Mean $\mu\text{g/g}$	152	7.52	67.9	105
U $\mu\text{g/g}$	4.06	0.266	1.72	2.90
Robust Standard Deviation $\mu\text{g/g}$	20.0	1.31	8.37	14.1
Regression Standard Deviation $\mu\text{g/g}$	30.5	1.50	13.6	20.9
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) $\mu\text{g/g}$	30.5	1.50	13.6	20.9
Outliers	0	0	1	1
$ z > 3.0$	1	2	0	0
$2 < z < 3$	1	1	1	0

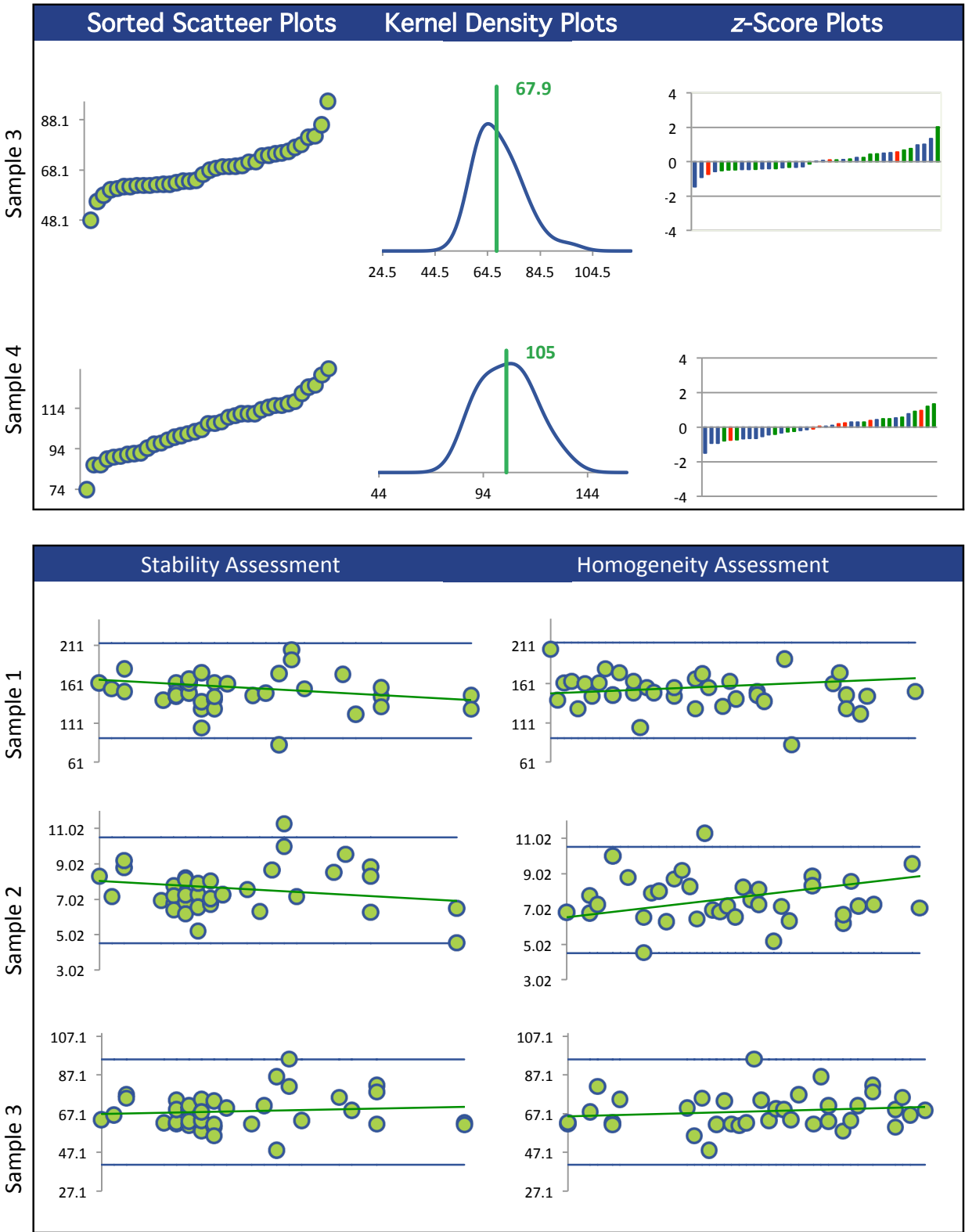
Methods Used

Method	C36-1	C36-2	C36-3	C36-4
GC/MS - PURGE AND TRAP (Blue)	18	18	18	18
GC/MS - HEADSPACE (Red)	16	16	16	16
GC/MS (Green)	4	4	3	3

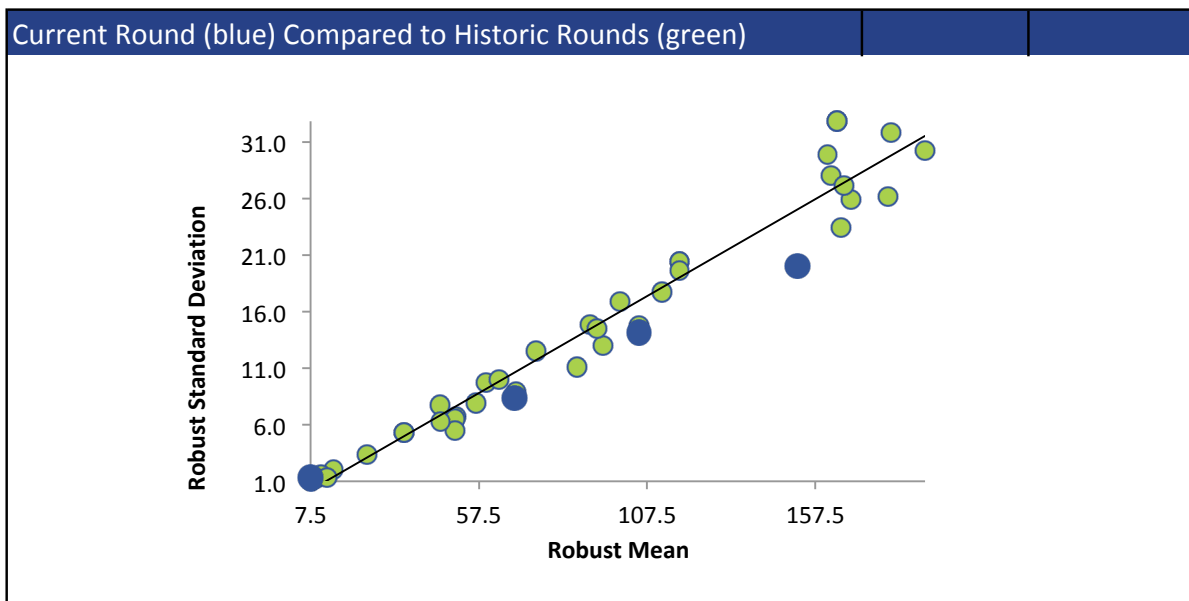
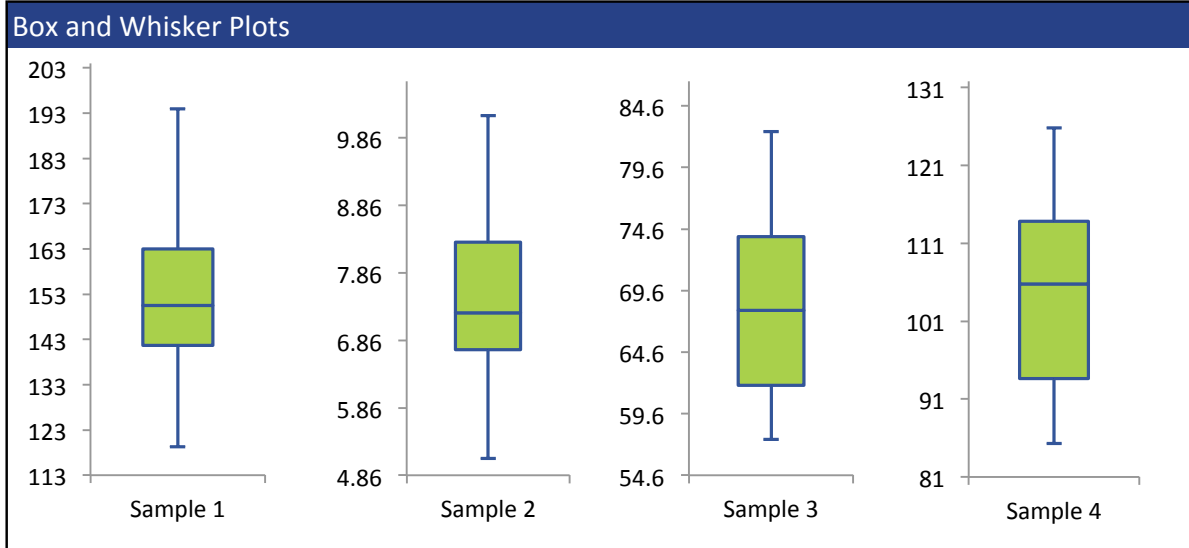
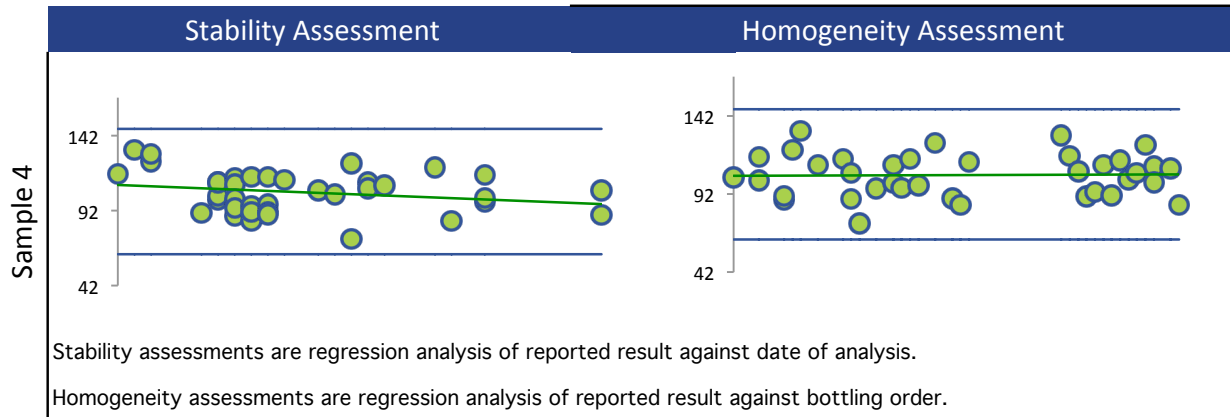
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1,1-DICHLOROETHYLENE



1,1-DICHLOROETHYLENE



1,2-DICHLOROBENZENE

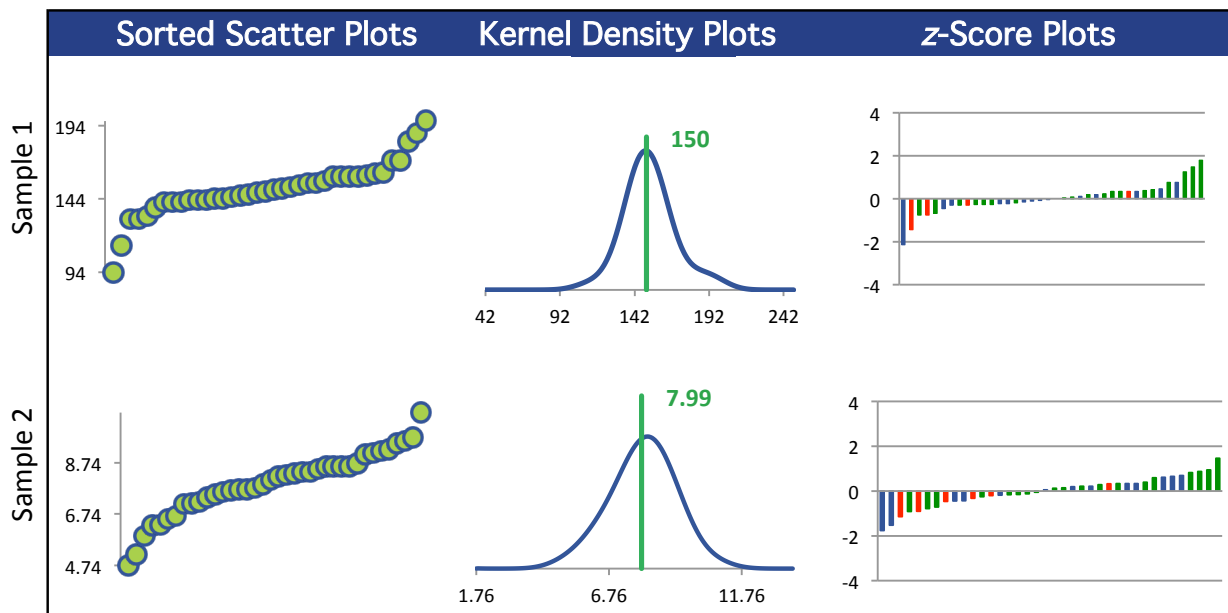
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	38	38	38	38
Median $\mu\text{g/g}$	150	8.15	65.0	102
Robust Mean $\mu\text{g/g}$	150	7.99	64.7	101
U $\mu\text{g/g}$	2.80	0.243	1.35	2.09
Robust Standard Deviation $\mu\text{g/g}$	13.8	1.20	6.65	10.3
Regression Standard Deviation $\mu\text{g/g}$	26.3	1.40	11.3	17.6
Stability Flag		Stability		
Homogeneity Flag				
Standard Deviation Used (SDPA) $\mu\text{g/g}$	26.3	1.85	11.3	17.6
Outliers	0	0	0	0
$ z > 3.0$	0	0	0	0
$2 < z < 3$	1	0	0	1

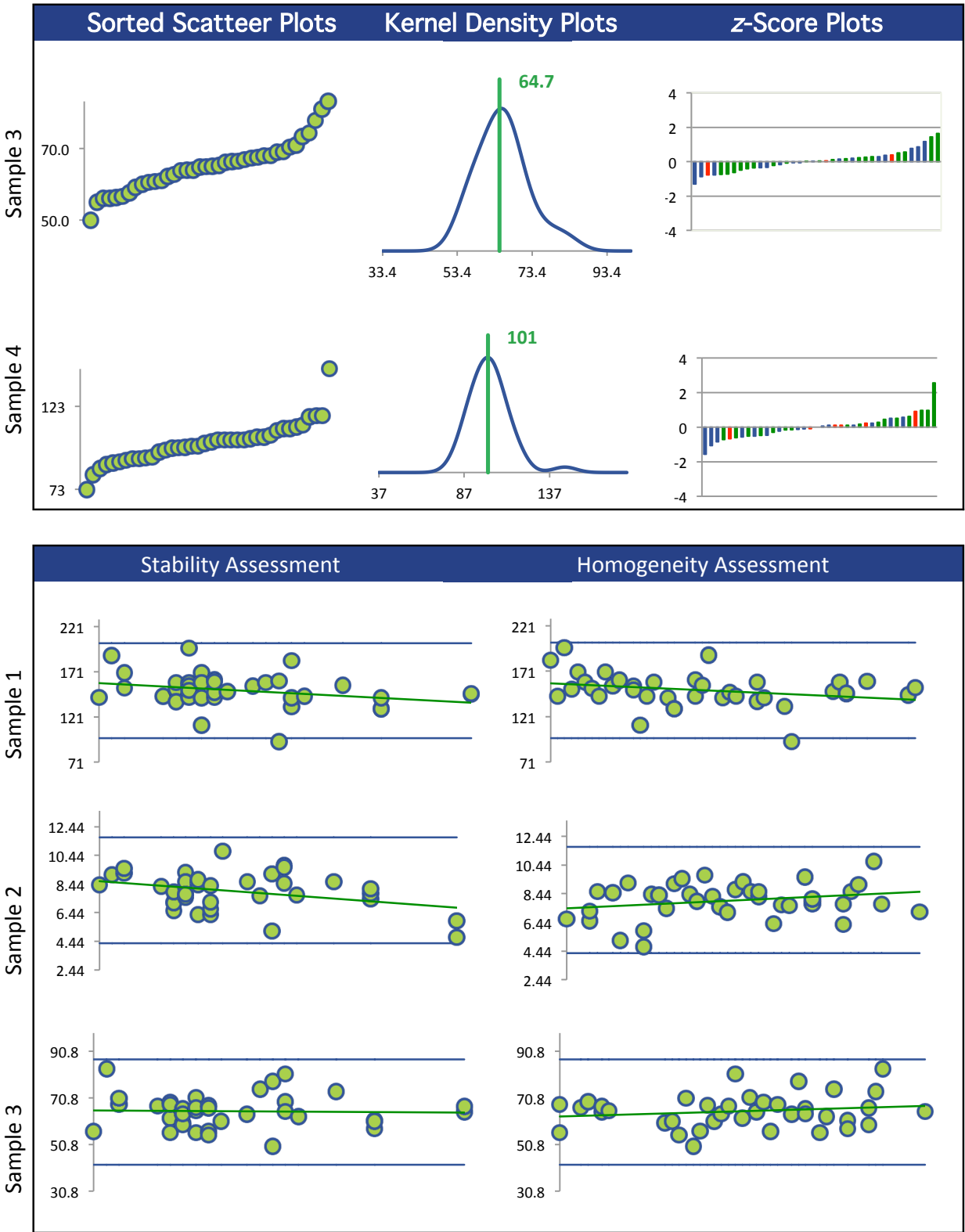
Methods Used

Method	C36-1	C36-2	C36-3	C36-4
GC/MS - PURGE AND TRAP (Blue)	18	18	18	18
GC/MS - HEADSPACE (Red)	15	15	15	15
GC/MS (Green)	5	5	5	5

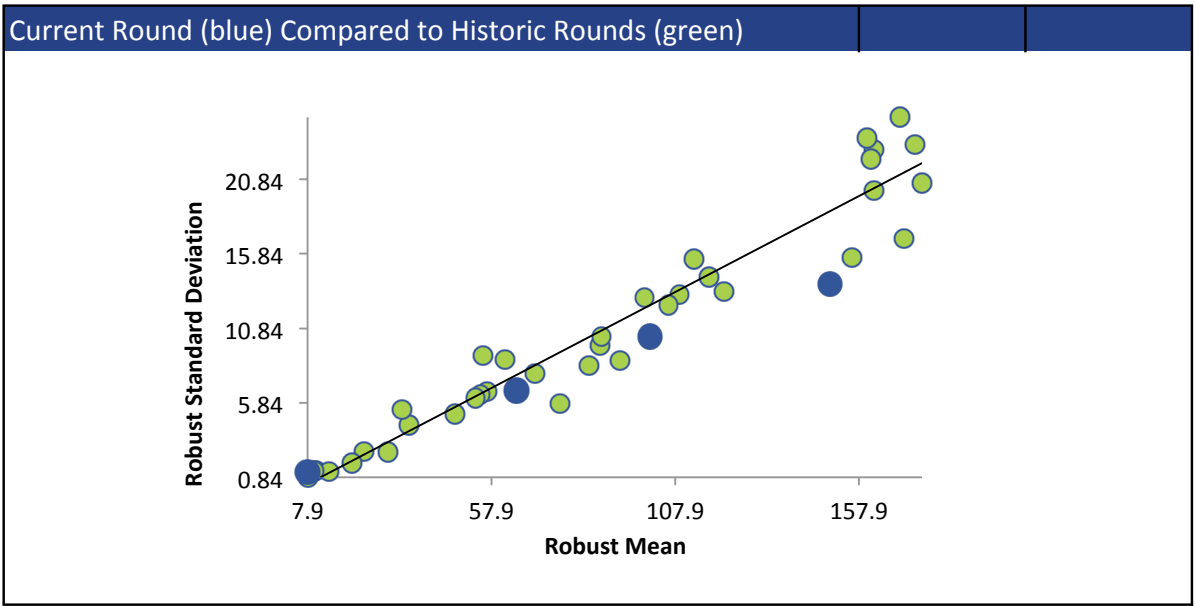
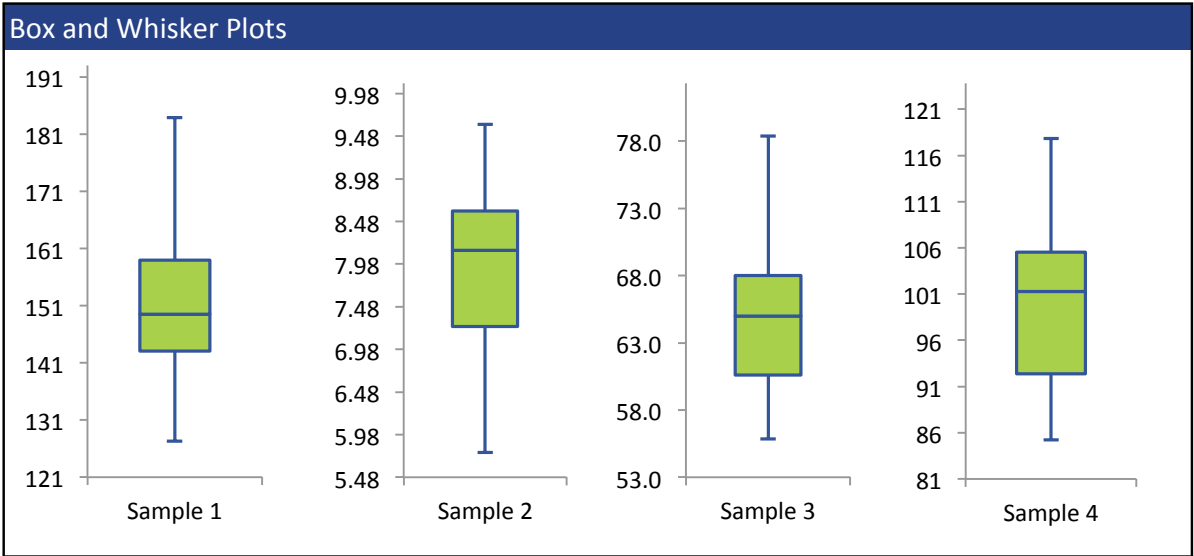
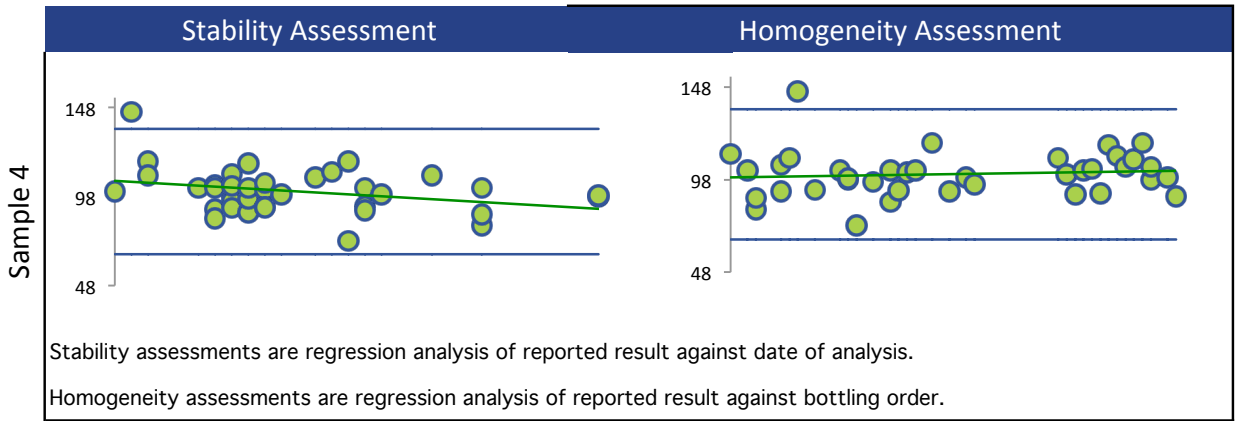
All summary stats and the plots below are based on the data excluding any flagged outliers



1,2-DICHLOROBENZENE



1,2-DICHLOROBENZENE



1,2-DICHLOROETHANE

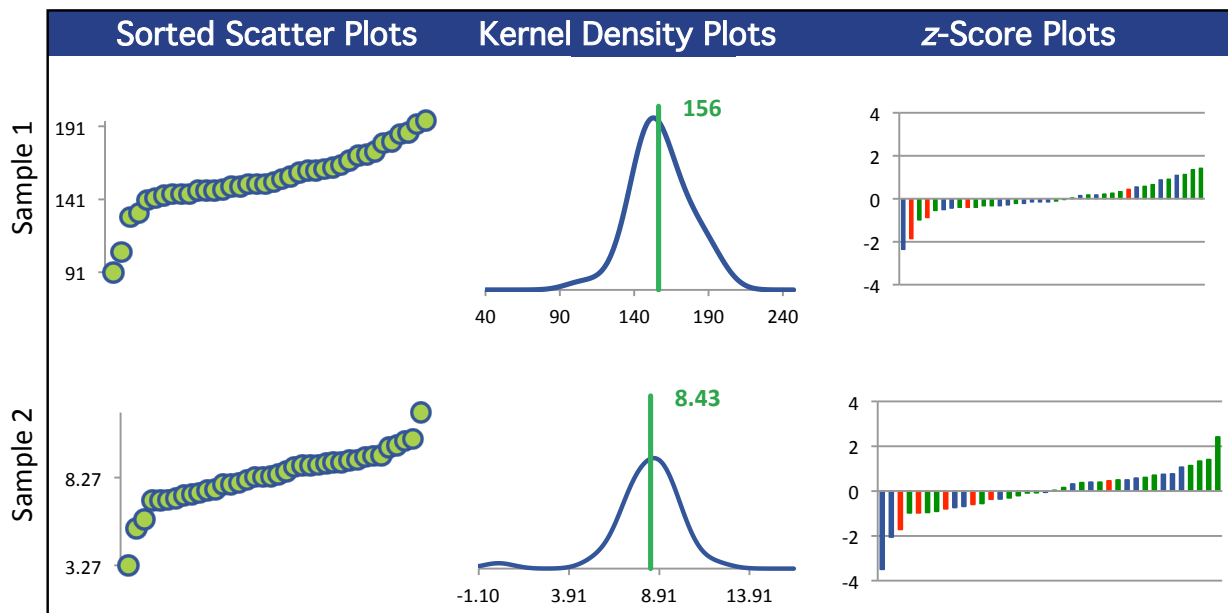
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	38	38	38	38
Median $\mu\text{g/g}$	153	8.41	67.2	105
Robust Mean $\mu\text{g/g}$	156	8.43	67.5	106
U $\mu\text{g/g}$	3.71	0.268	1.81	2.60
Robust Standard Deviation $\mu\text{g/g}$	18.3	1.32	8.92	12.8
Regression Standard Deviation $\mu\text{g/g}$	27.4	1.48	11.8	18.5
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) $\mu\text{g/g}$	27.4	1.48	11.8	18.5
Outliers	0	0	0	0
$ z > 3.0$	0	1	0	0
$2 < z < 3$	1	2	0	0

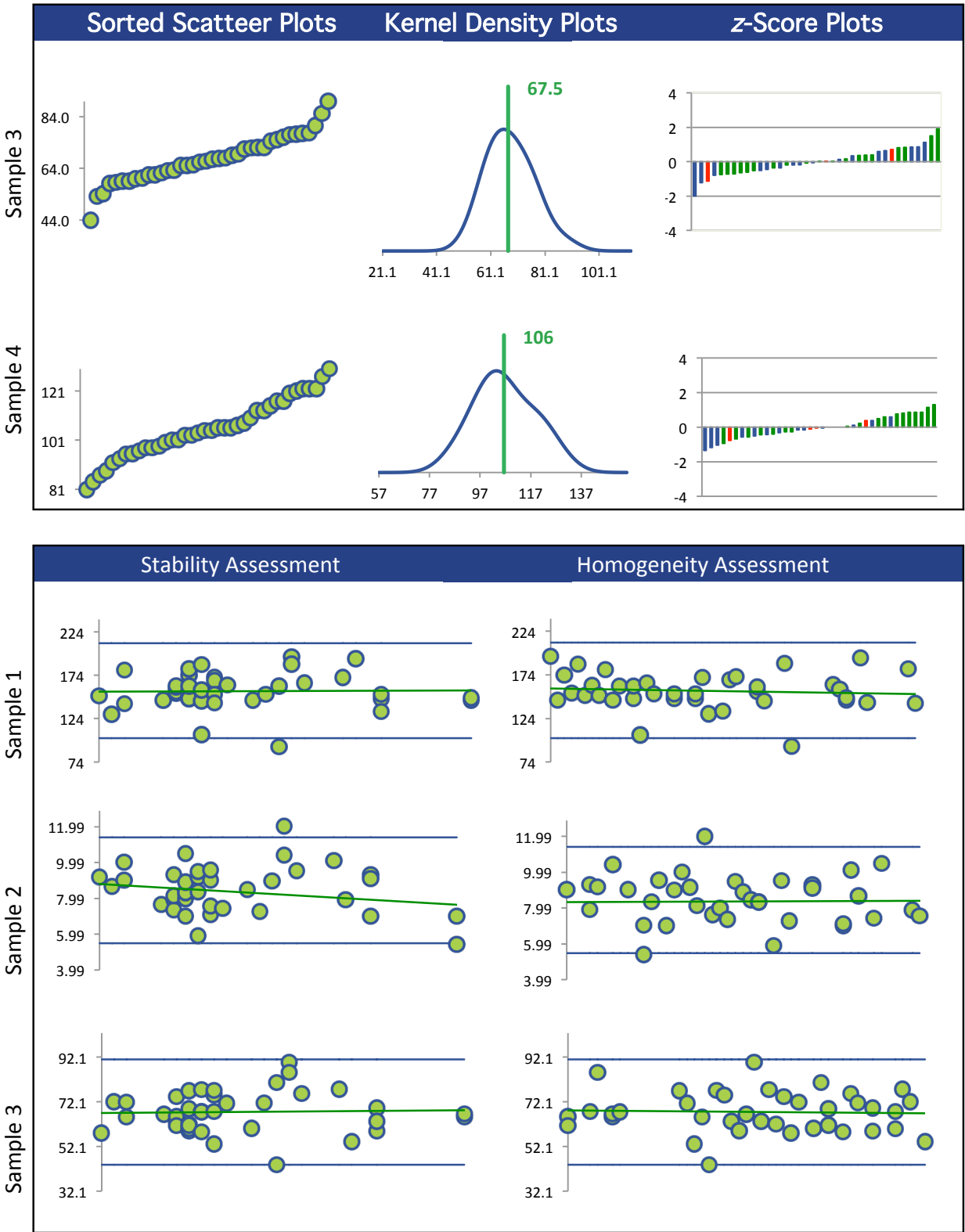
Methods Used

Method	C36-1	C36-2	C36-3	C36-4
GC/MS - PURGE AND TRAP (Blue)	18	18	18	18
GC/MS - HEADSPACE (Red)	16	16	16	16
GC/MS (Green)	4	4	4	4

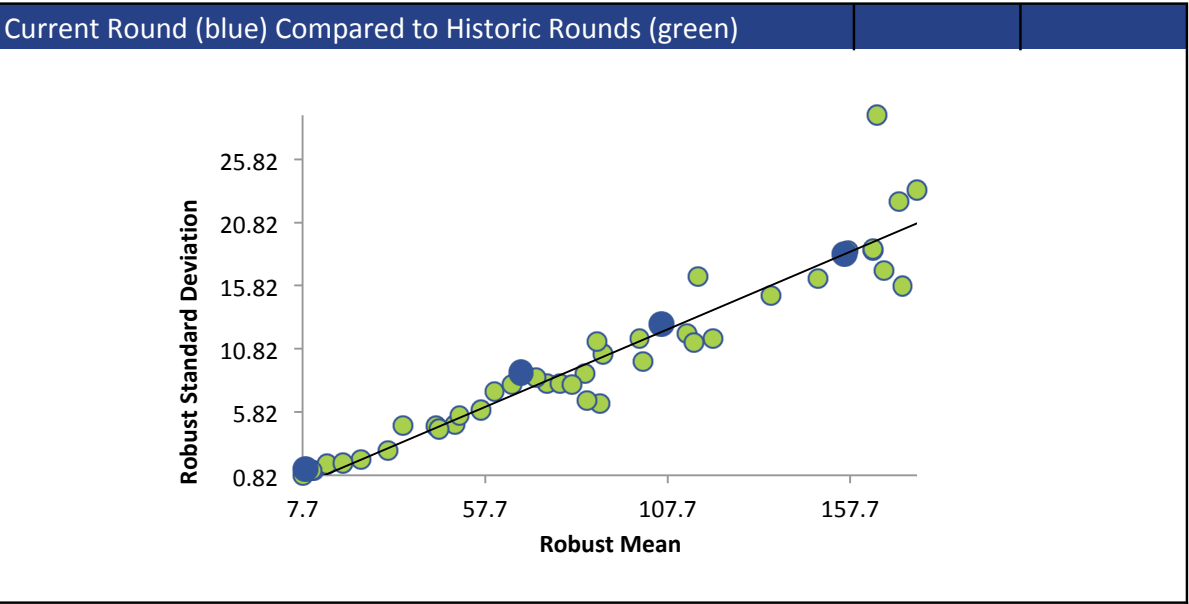
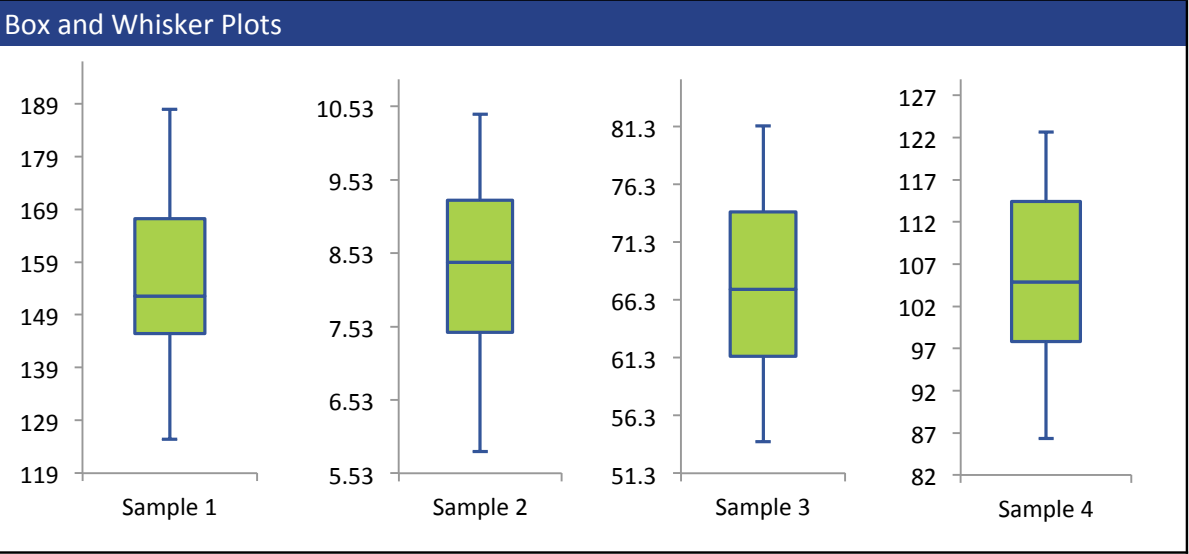
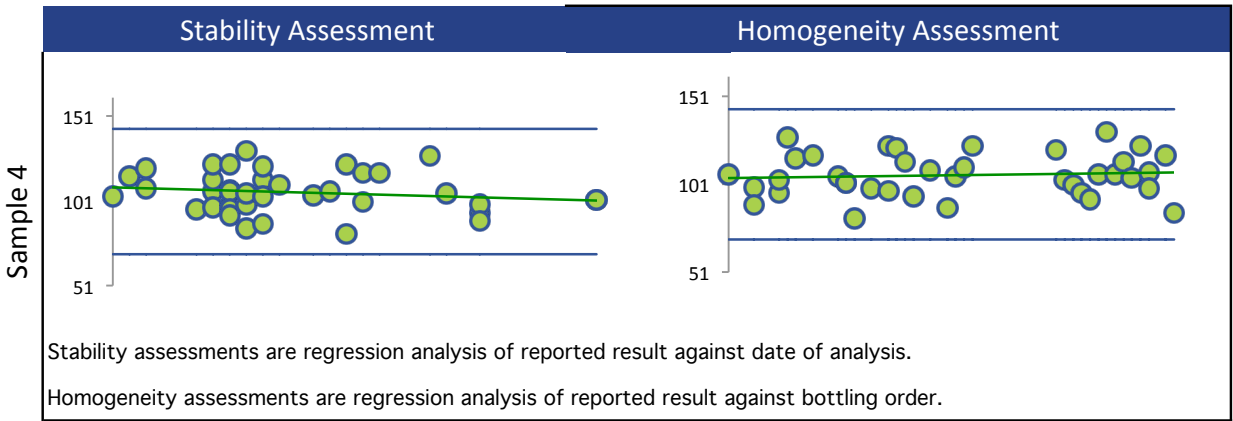
All summary stats and the plots below are based on the data excluding any flagged outliers



1,2-DICHLOROETHANE



1,2-DICHLOROETHANE



1,2-DICHLOROPROPANE

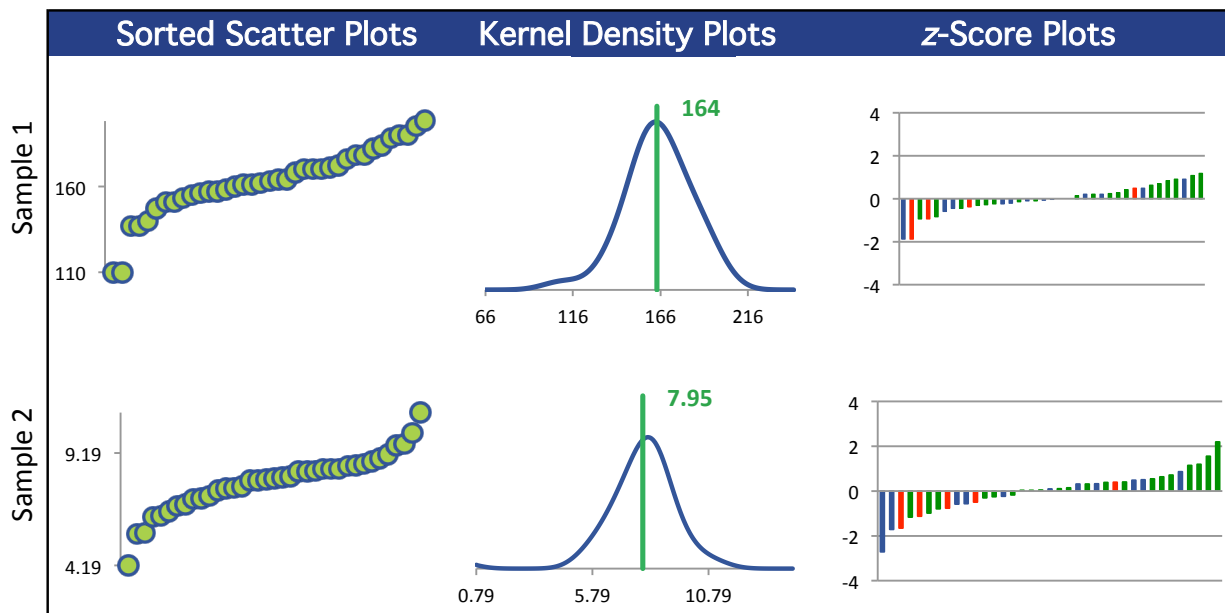
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Robust Mean $\mu\text{g/g}$	164	7.95	71.1	108
U $\mu\text{g/g}$	3.80	0.240	1.60	2.67
Robust Standard Deviation $\mu\text{g/g}$	18.5	1.17	7.79	13.0
Regression Standard Deviation $\mu\text{g/g}$	28.7	1.39	12.4	18.8
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) $\mu\text{g/g}$	28.7	1.39	12.4	18.8
Outliers	0	0	0	0
$ z > 3.0$	0	0	0	0
$2 < z < 3$	0	2	0	0

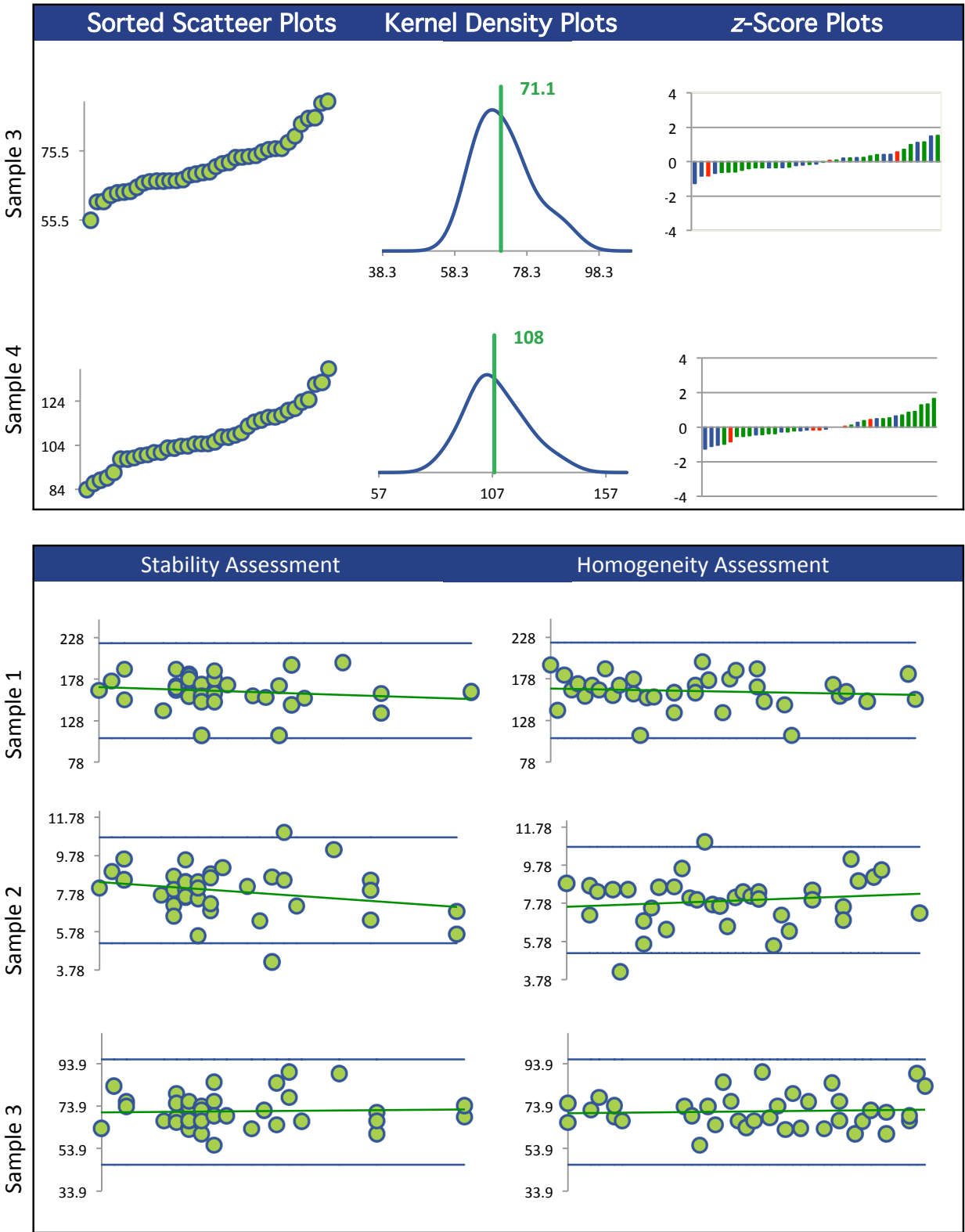
Methods Used

Method	C36-1	C36-2	C36-3	C36-4
GC/MS - HEADSPACE (Blue)	14	14	14	14
GC/MS - PURGE AND TRAP (Red)	18	18	18	18
GC/MS (Green)	5	5	5	5

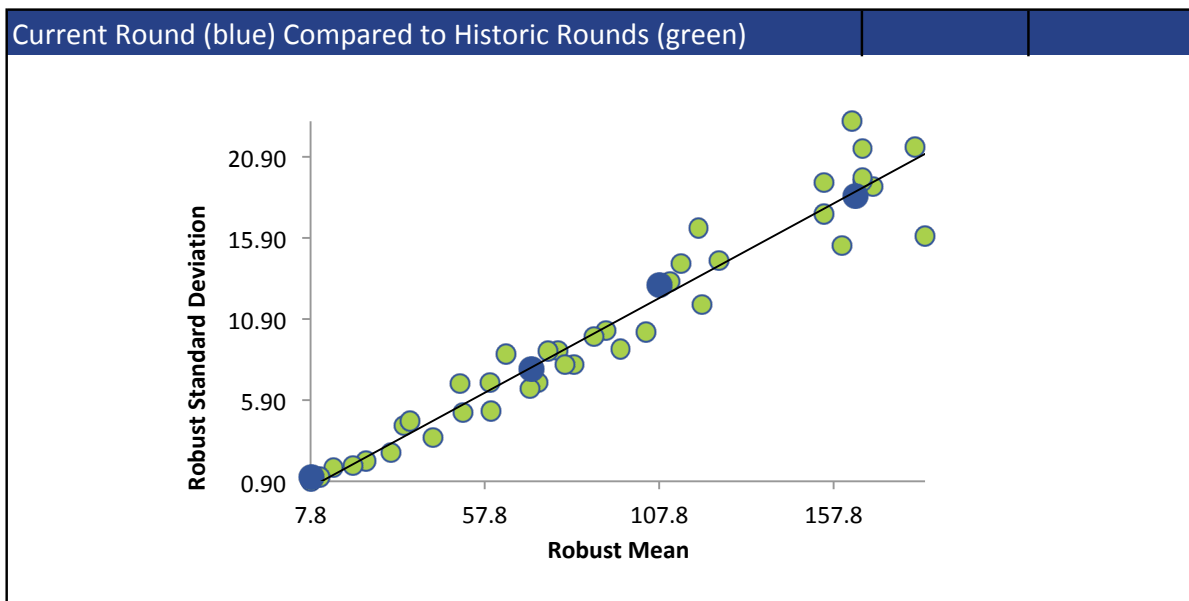
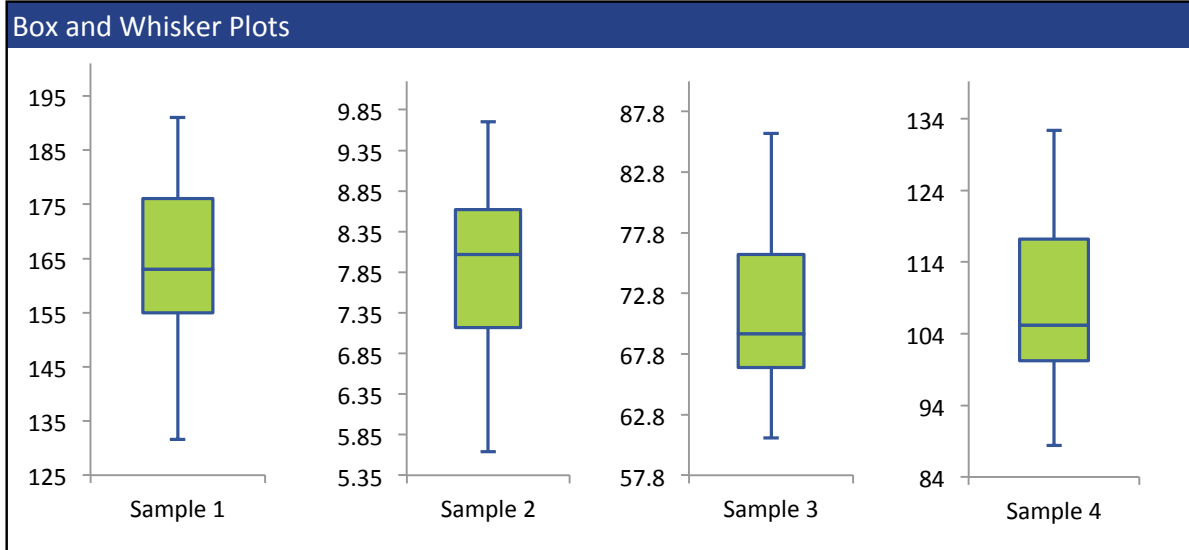
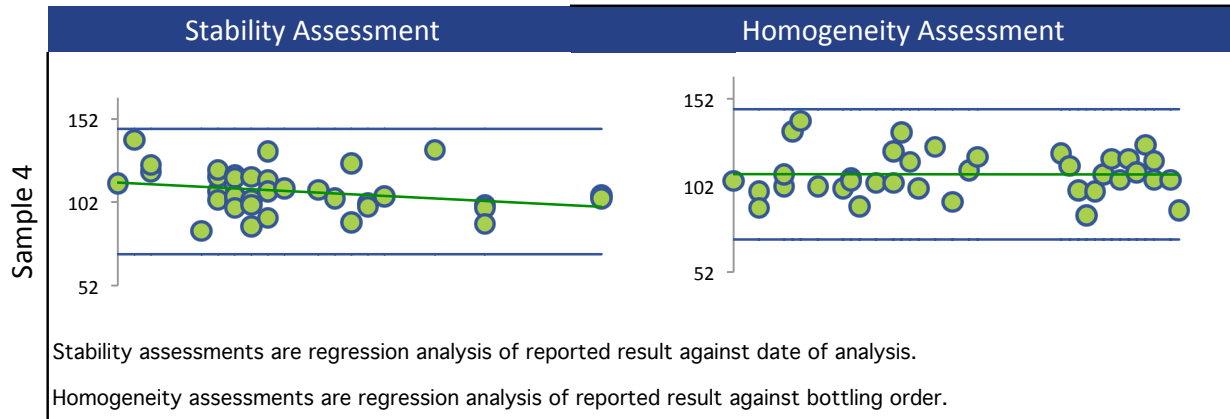
All summary stats and the plots below are based on the data excluding any flagged outliers



1,2-DICHLOROPROPANE



1,2-DICHLOROPROPANE



1,3-DICHLOROBENZENE

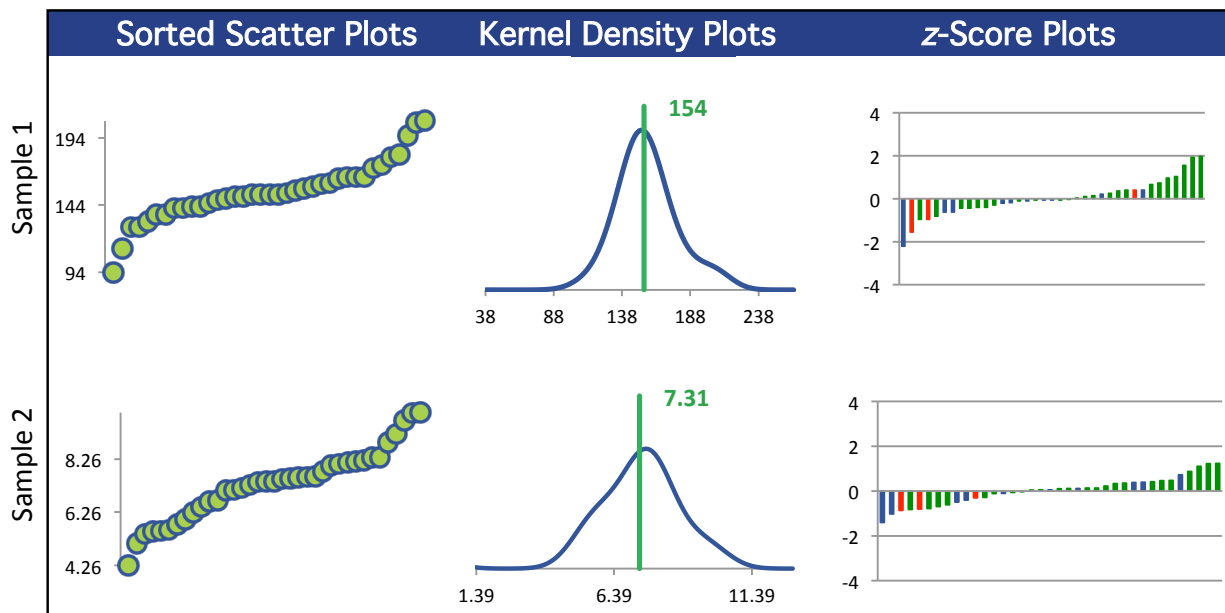
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	37	37	37	37
Median $\mu\text{g/g}$	152	7.42	66.0	101
Robust Mean $\mu\text{g/g}$	154	7.31	66.0	100
U $\mu\text{g/g}$	3.84	0.282	1.43	2.32
Robust Standard Deviation $\mu\text{g/g}$	18.7	1.37	6.95	11.3
Regression Standard Deviation $\mu\text{g/g}$	26.9	1.28	11.6	17.6
Stability Flag		Stability		Stability
Homogeneity Flag				
Standard Deviation Used (SDPA) $\mu\text{g/g}$	26.9	2.18	11.6	24.3
Outliers	0	0	0	0
$ z > 3.0$	0	0	0	0
$2 < z < 3$	1	0	1	0

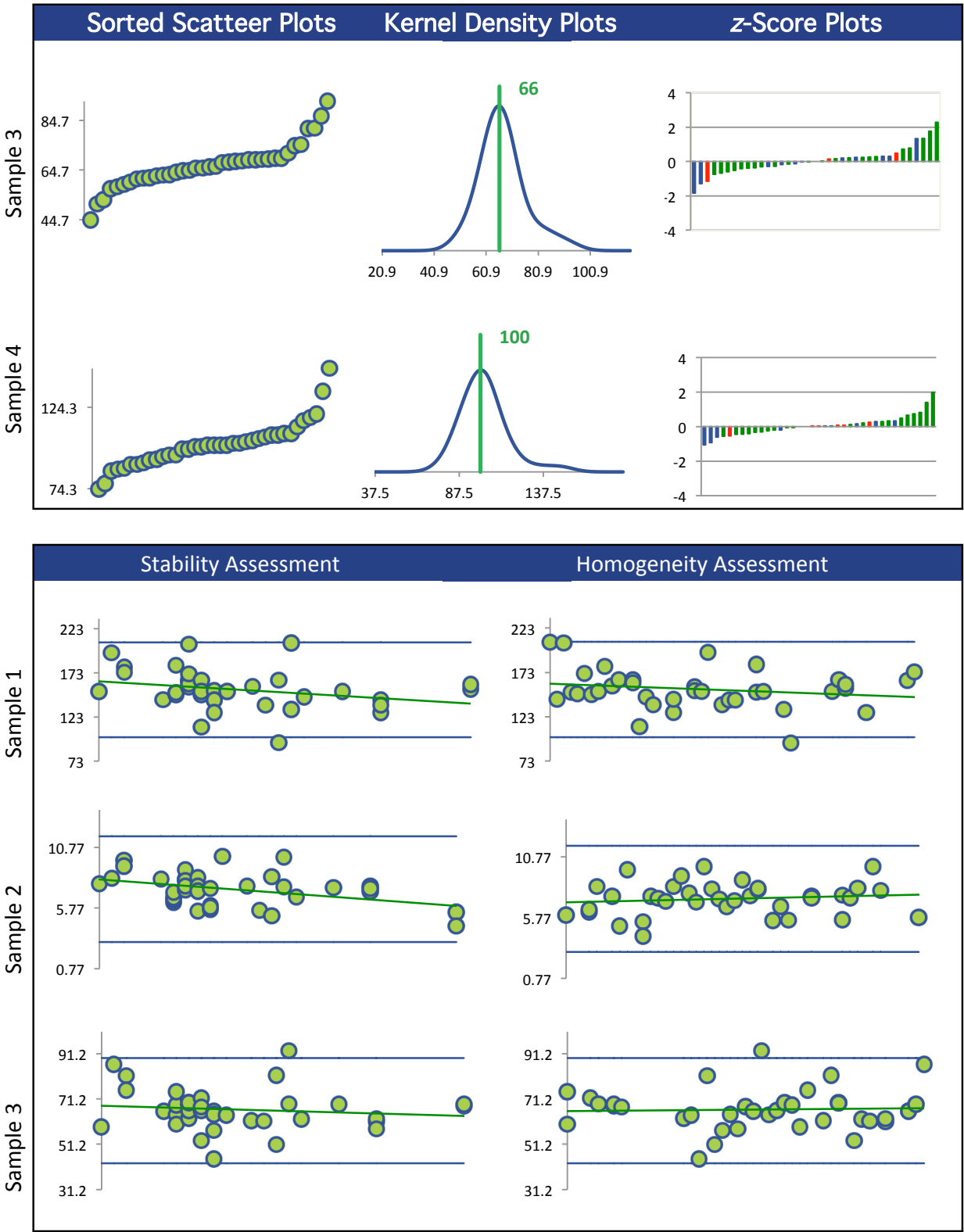
Methods Used

Method	C36-1	C36-2	C36-3	C36-4
GC/MS - PURGE AND TRAP (Blue)	18	18	18	18
GC/MS - HEADSPACE (Red)	15	15	15	15
GC/MS (Green)	4	4	4	4

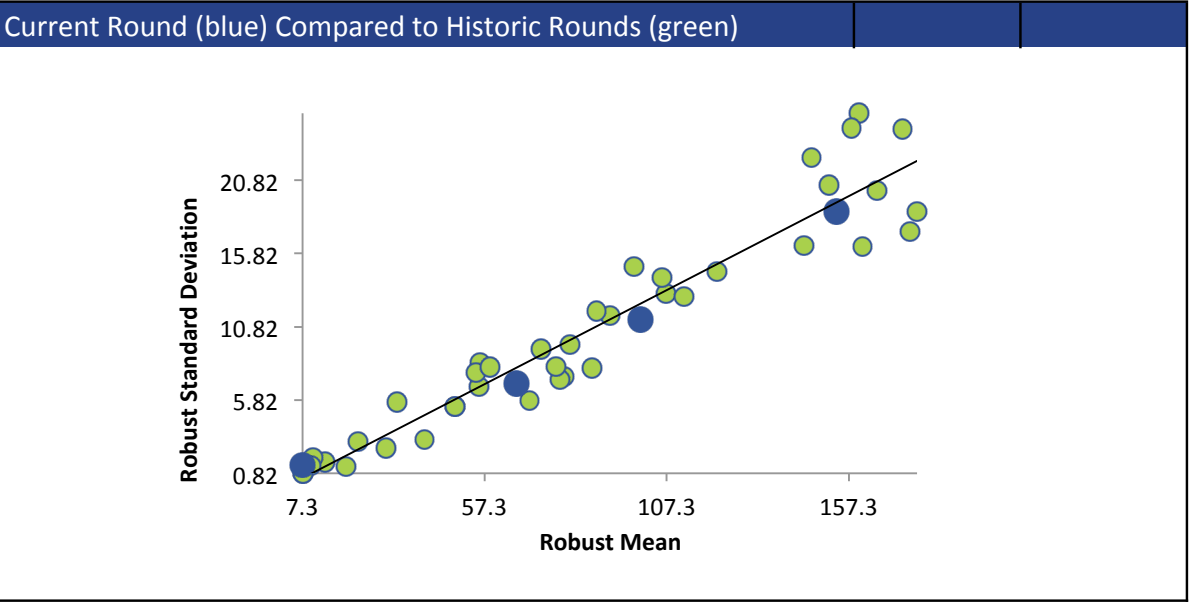
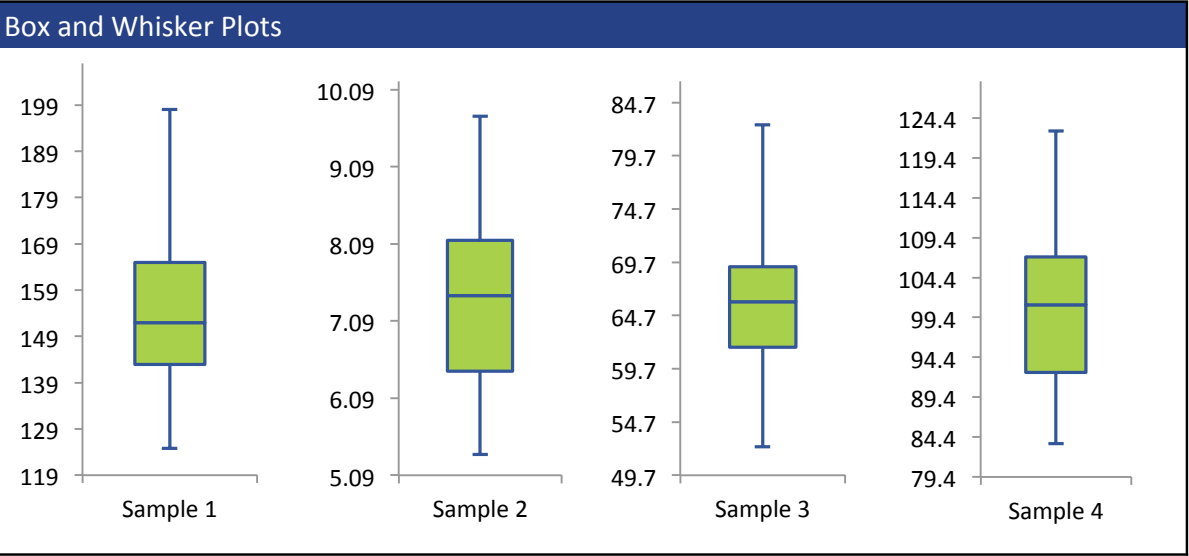
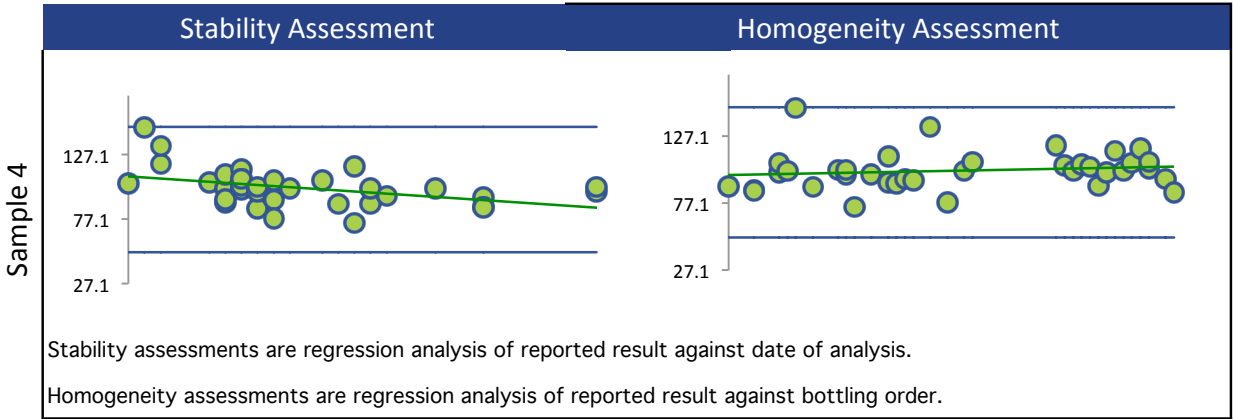
All summary stats and the plots below are based on the data excluding any flagged outliers



1,3-DICHLOROBENZENE



1,3-DICHLOROBENZENE



1,4-DICHLOROBENZENE

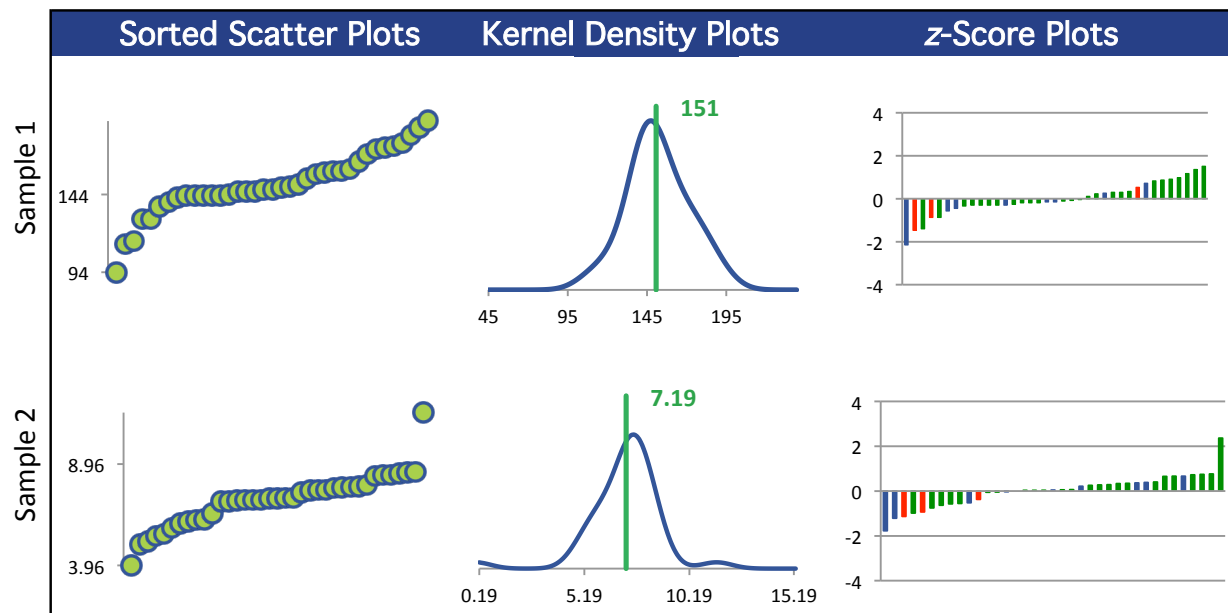
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	37	37	37	37
Median $\mu\text{g/g}$	147	7.27	66.2	102
Robust Mean $\mu\text{g/g}$	151	7.19	66.2	101
U $\mu\text{g/g}$	3.86	0.238	1.65	2.42
Robust Standard Deviation $\mu\text{g/g}$	18.8	1.16	8.02	11.8
Regression Standard Deviation $\mu\text{g/g}$	26.5	1.26	11.6	17.8
Stability Flag		Stability		
Homogeneity Flag				
Standard Deviation Used (SDPA) $\mu\text{g/g}$	26.5	1.83	11.6	17.8
Outliers	0	0	0	0
$ z > 3.0$	0	0	0	0
$2 < z < 3$	1	1	0	1

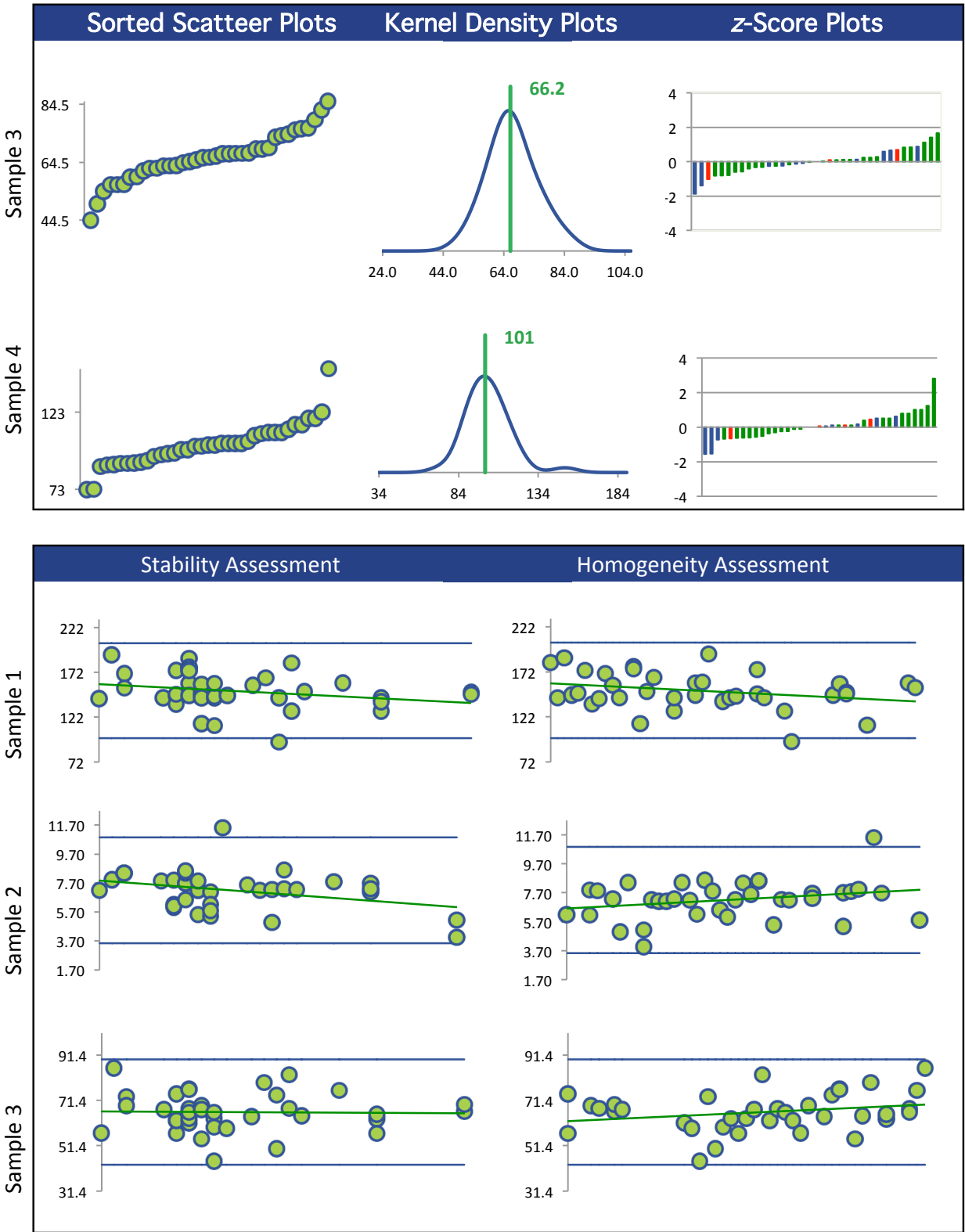
Methods Used

Method	C36-1	C36-2	C36-3	C36-4
GC/MS - PURGE AND TRAP (Blue)	18	18	18	18
GC/MS - HEADSPACE (Red)	15	15	15	15
GC/MS (Green)	4	4	4	4

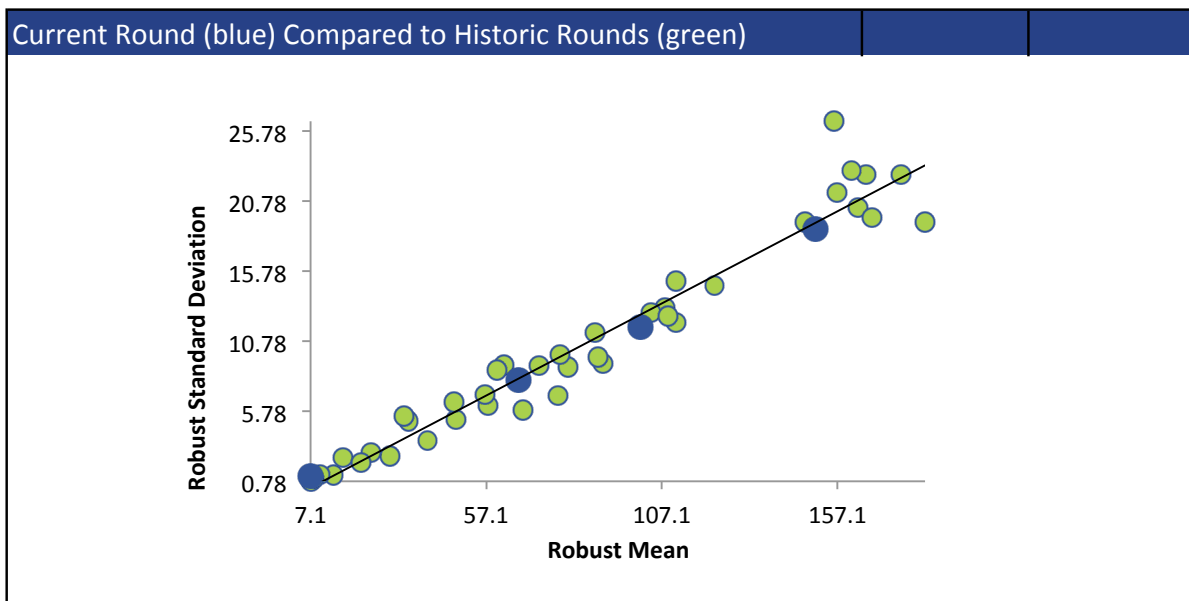
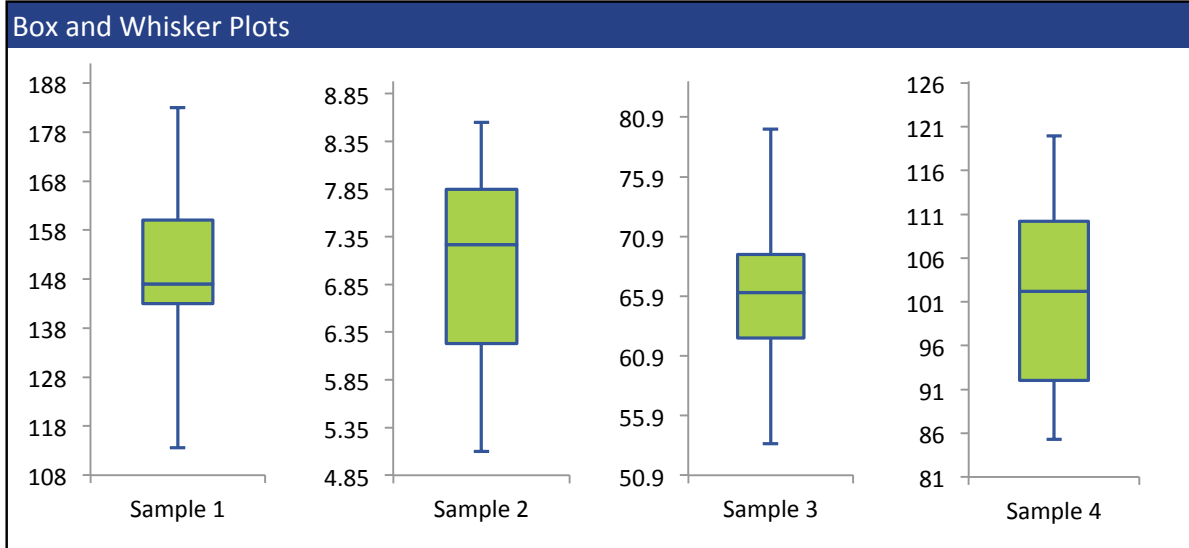
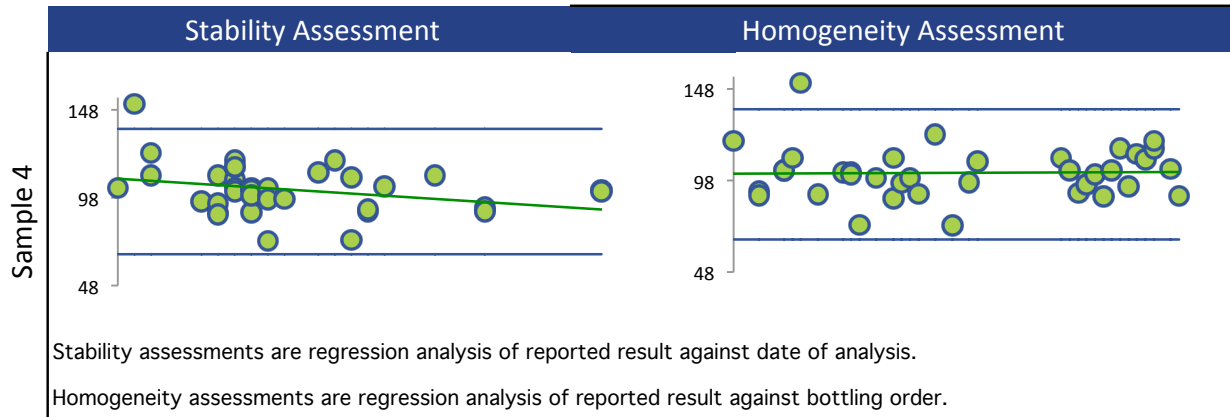
All summary stats and the plots below are based on the data excluding any flagged outliers



1,4-DICHLOROBENZENE



1,4-DICHLOROBENZENE



ACETONE (2-PROPANONE)

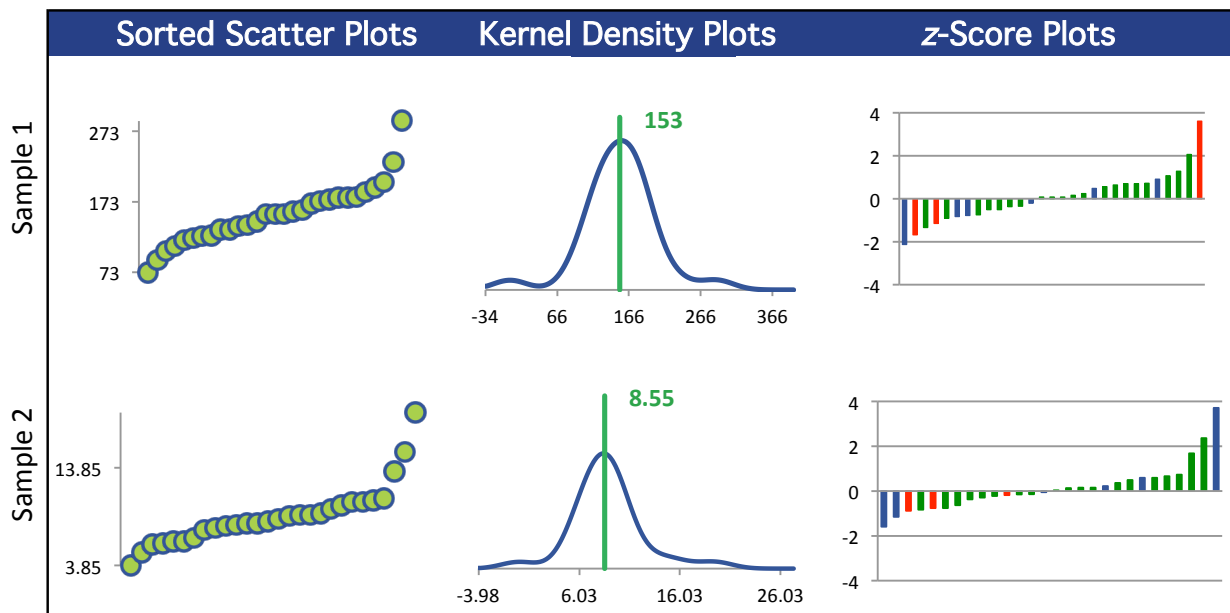
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	29	28	29	29
Median $\mu\text{g/g}$	156	8.52	63.9	99.0
Robust Mean $\mu\text{g/g}$	153	8.55	67.2	96.8
U $\mu\text{g/g}$	8.68	0.524	3.62	4.34
Robust Standard Deviation $\mu\text{g/g}$	37.4	2.22	15.6	18.7
Regression Standard Deviation $\mu\text{g/g}$	32.4	2.95	14.9	21.0
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) $\mu\text{g/g}$	37.4	2.95	15.6	21.0
Outliers	1	1	1	1
$ z > 3.0$	1	1	1	0
$2 < z < 3$	2	1	1	4

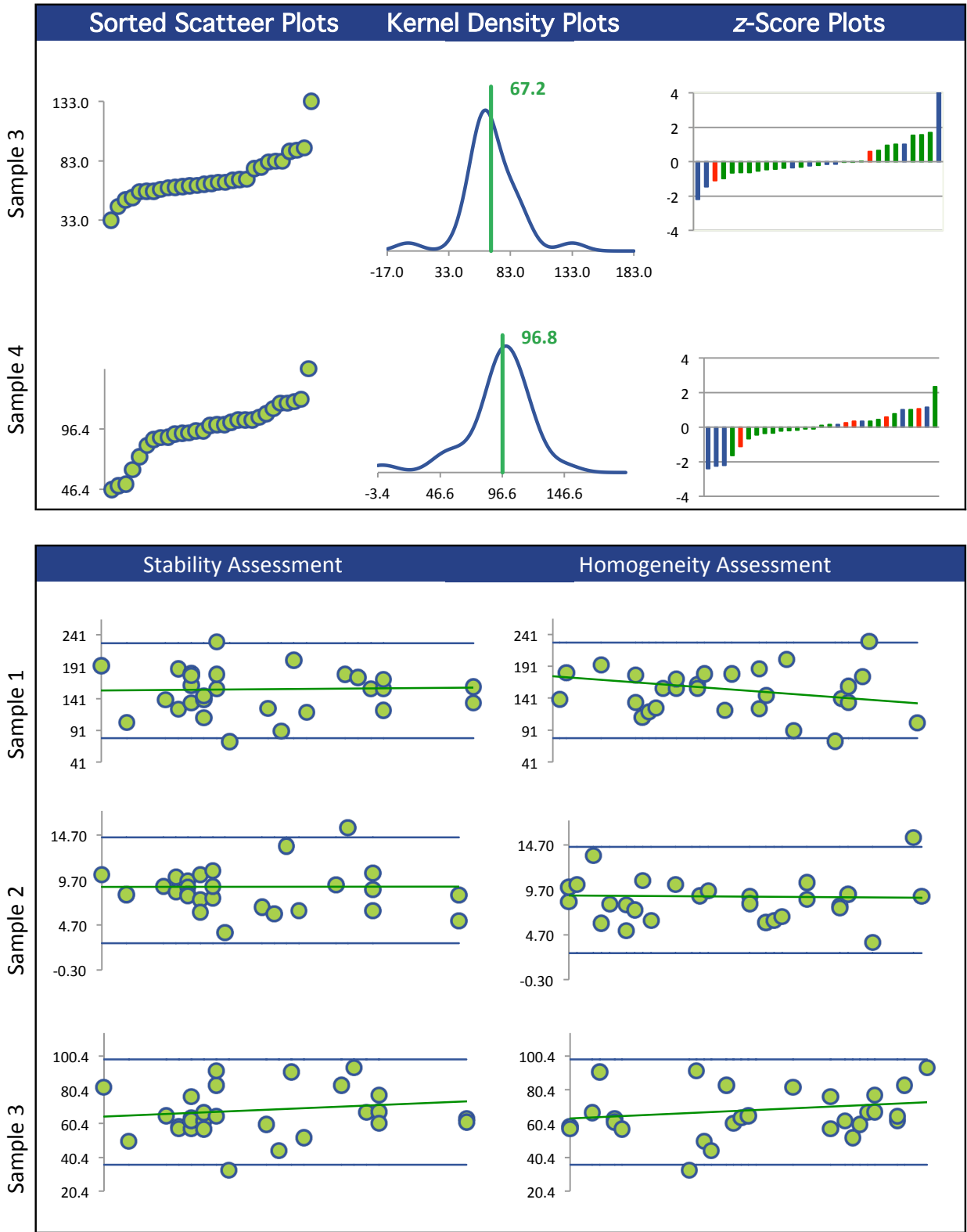
Methods Used

Method	C36-1	C36-2	C36-3	C36-4
GC/MS - PURGE AND TRAP (Blue)	16	16	16	16
GC/MS - HEADSPACE (Red)	11	11	11	11
GC/MS (Green)	2	1	2	2

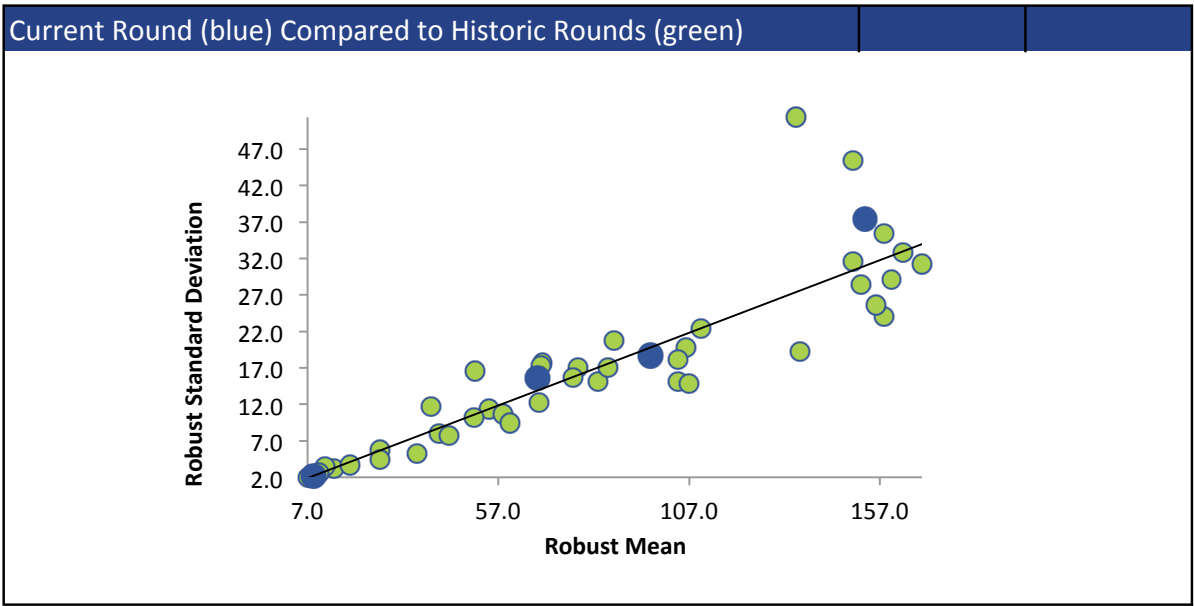
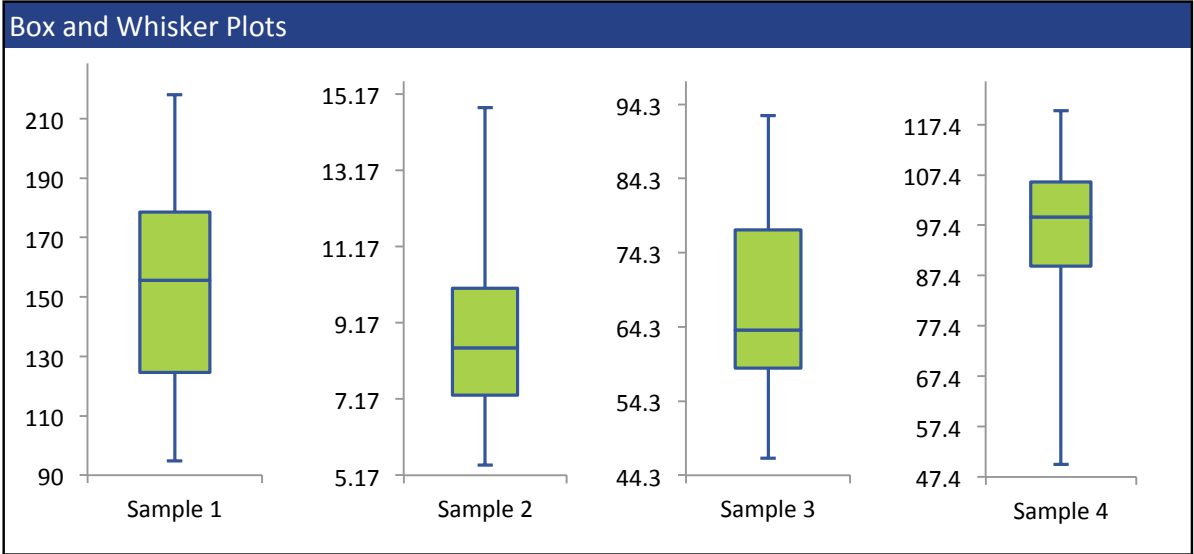
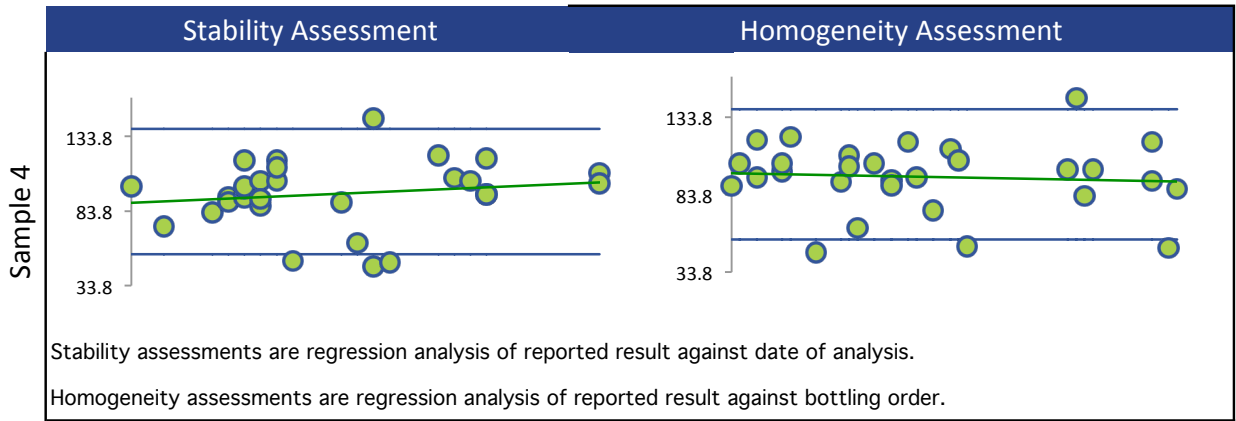
All summary stats and the plots below are based on the data excluding any flagged outliers



ACETONE (2-PROPANONE)



ACETONE (2-PROPANONE)



BENZENE

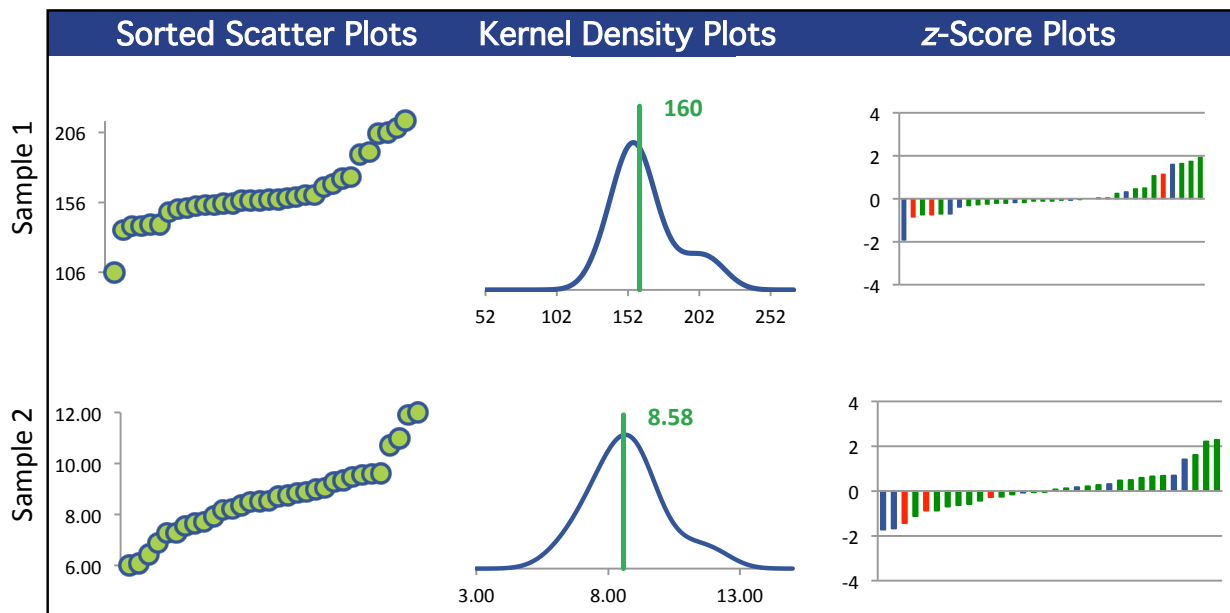
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	33	32	33	33
Median $\mu\text{g/g}$	157	8.61	68.8	107
Robust Mean $\mu\text{g/g}$	160	8.58	68.9	109
U $\mu\text{g/g}$	4.18	0.298	1.53	3.11
Robust Standard Deviation $\mu\text{g/g}$	19.2	1.35	7.03	14.3
Regression Standard Deviation $\mu\text{g/g}$	28.1	1.50	12.1	19.0
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) $\mu\text{g/g}$	28.1	1.50	12.1	19.0
Outliers	0	0	0	0
$ z > 3.0$	0	0	0	0
$2 < z < 3$	0	2	0	0

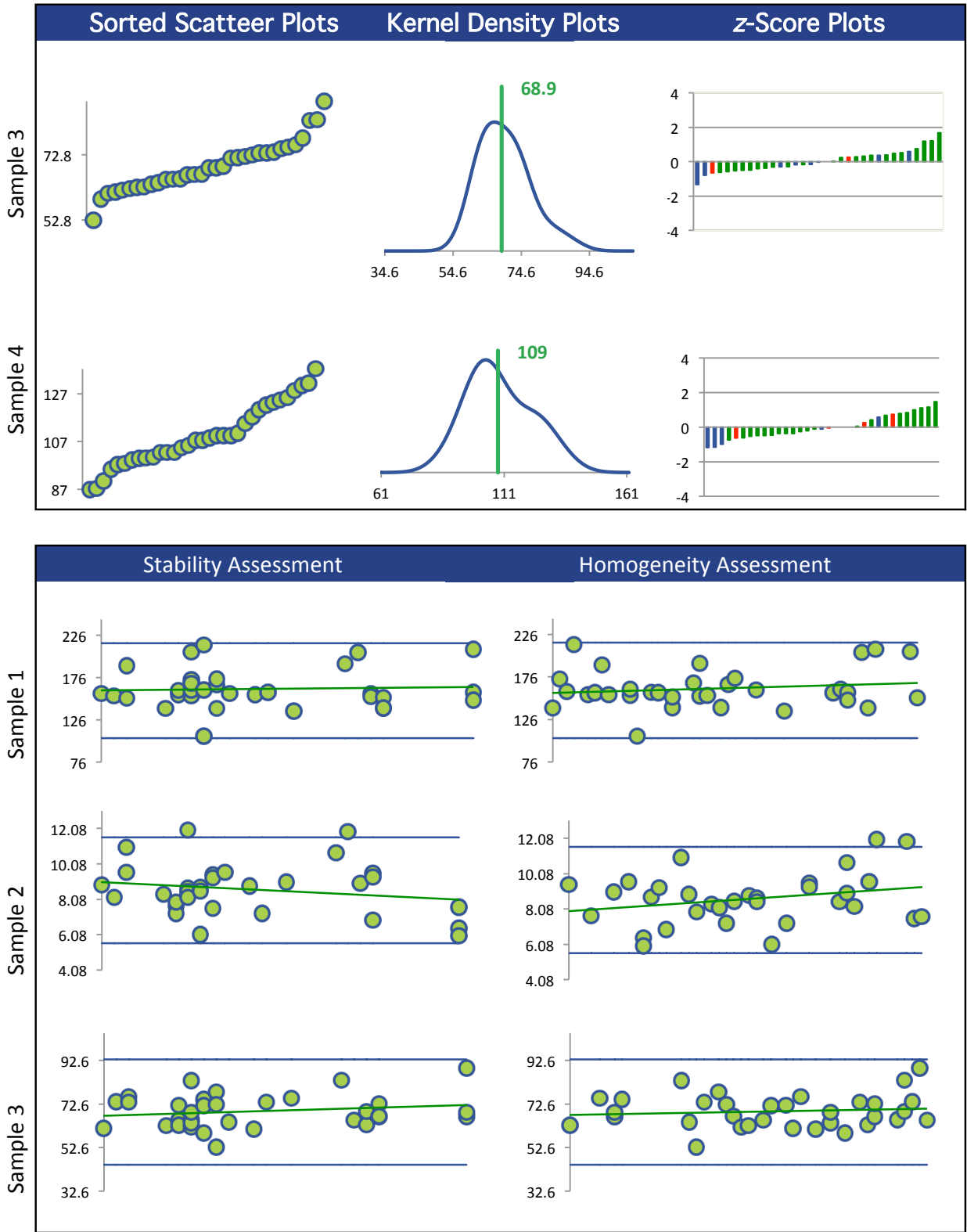
Methods Used

Method	C36-1	C36-2	C36-3	C36-4
GC/MS - HEADSPACE (Blue)	13	13	13	13
GC/MS - PURGE AND TRAP (Red)	15	15	15	15
GC/MS (Green)	5	4	5	5

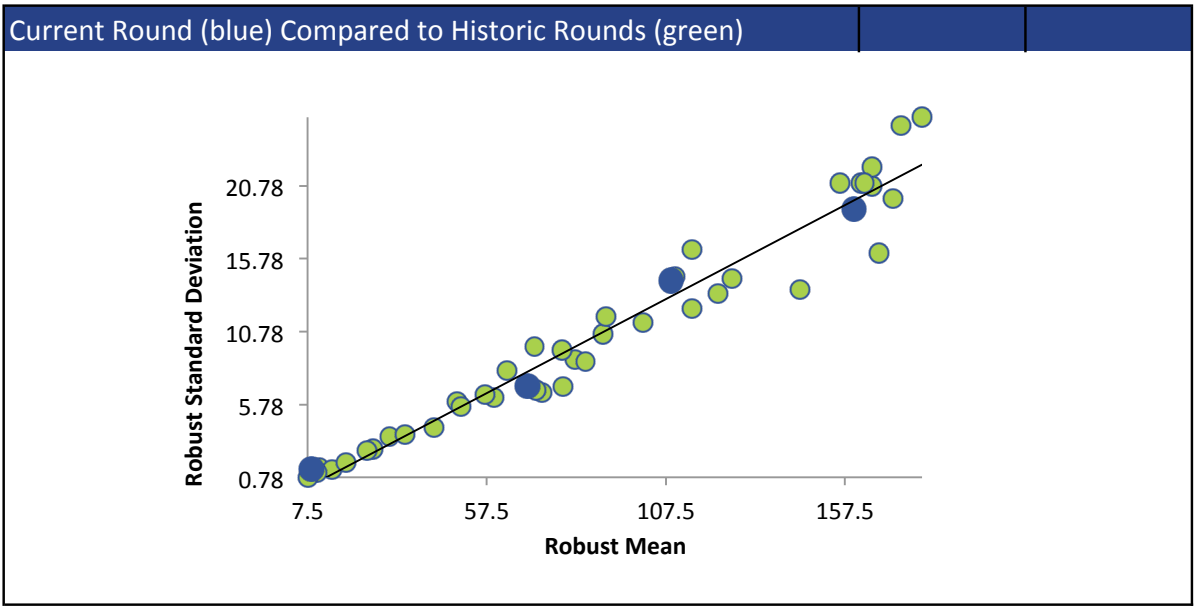
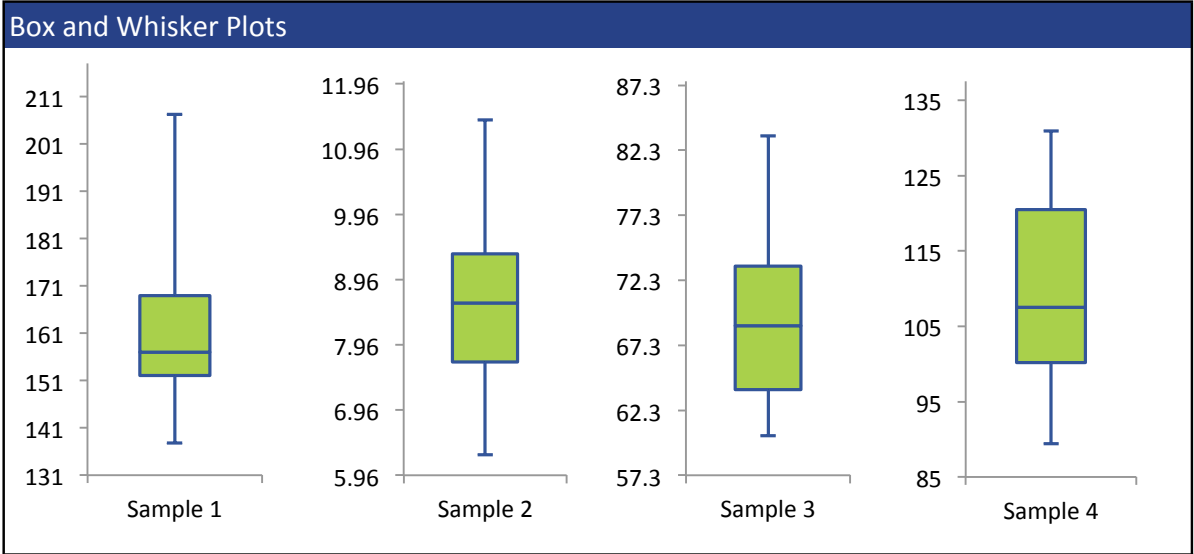
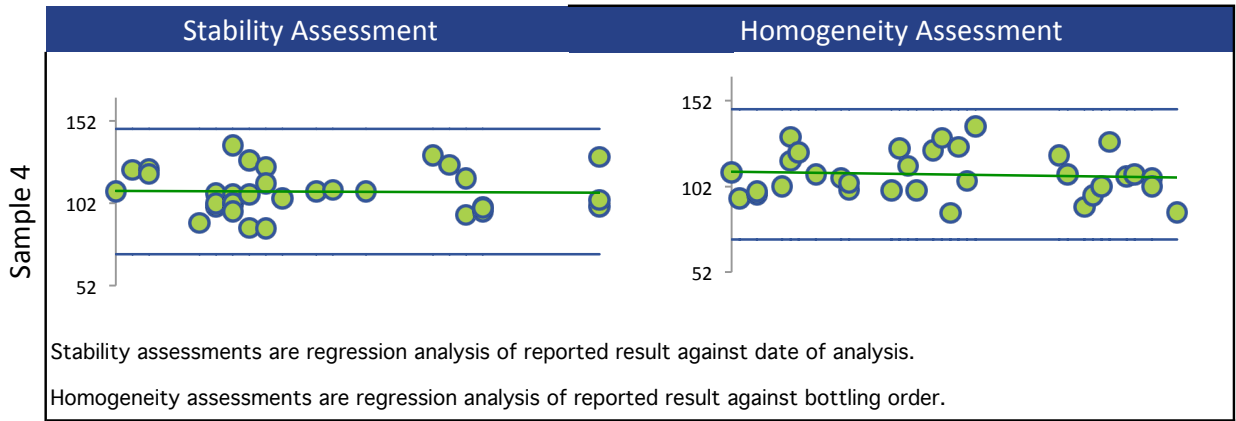
All summary stats and the plots below are based on the data excluding any flagged outliers



BENZENE



BENZENE



BROMODICHLOROMETHANE

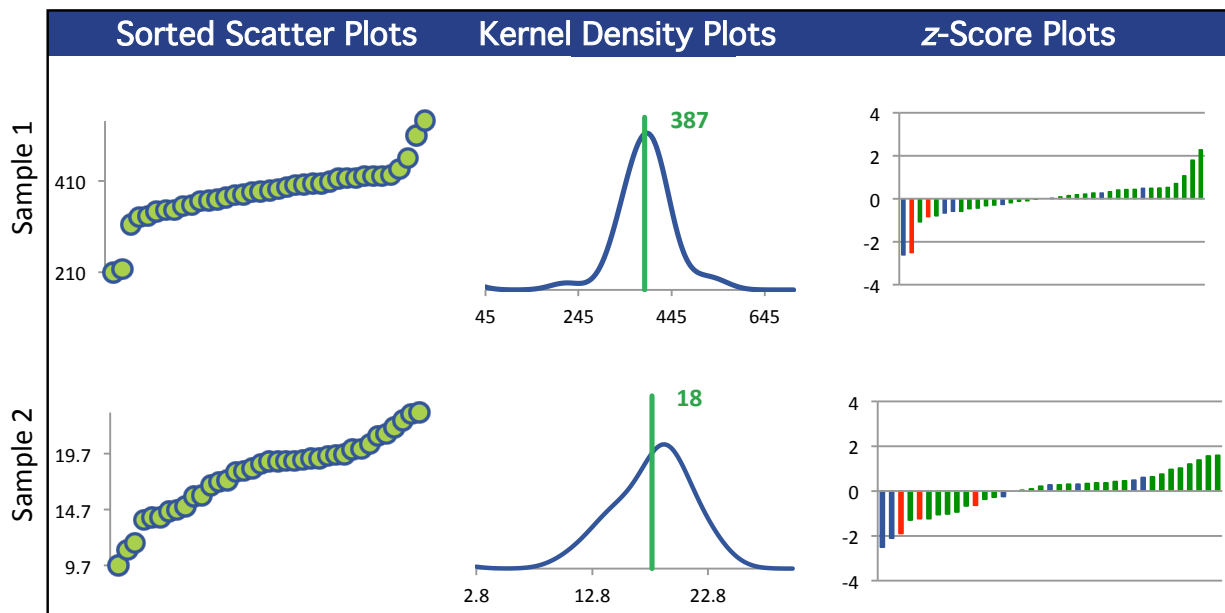
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	37	37	37	37
Median $\mu\text{g/g}$	388	18.9	170	264
Robust Mean $\mu\text{g/g}$	387	18.0	171	258
U $\mu\text{g/g}$	8.69	0.686	3.90	7.01
Robust Standard Deviation $\mu\text{g/g}$	42.3	3.34	19.0	34.1
Regression Standard Deviation $\mu\text{g/g}$	67.6	3.15	29.9	45.2
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) $\mu\text{g/g}$	67.6	3.34	29.9	45.2
Outliers	0	0	0	0
$ z > 3.0$	0	0	0	0
$2 < z < 3$	3	2	0	1

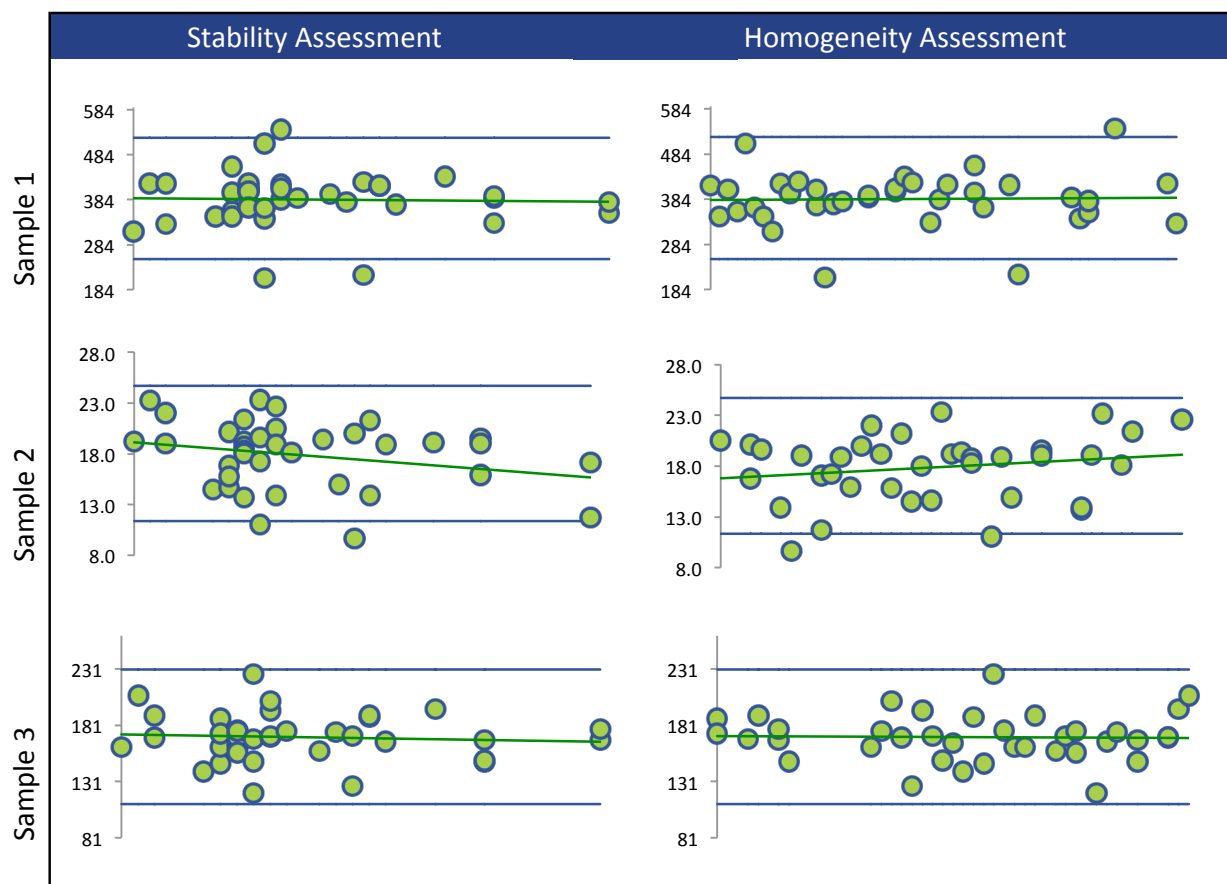
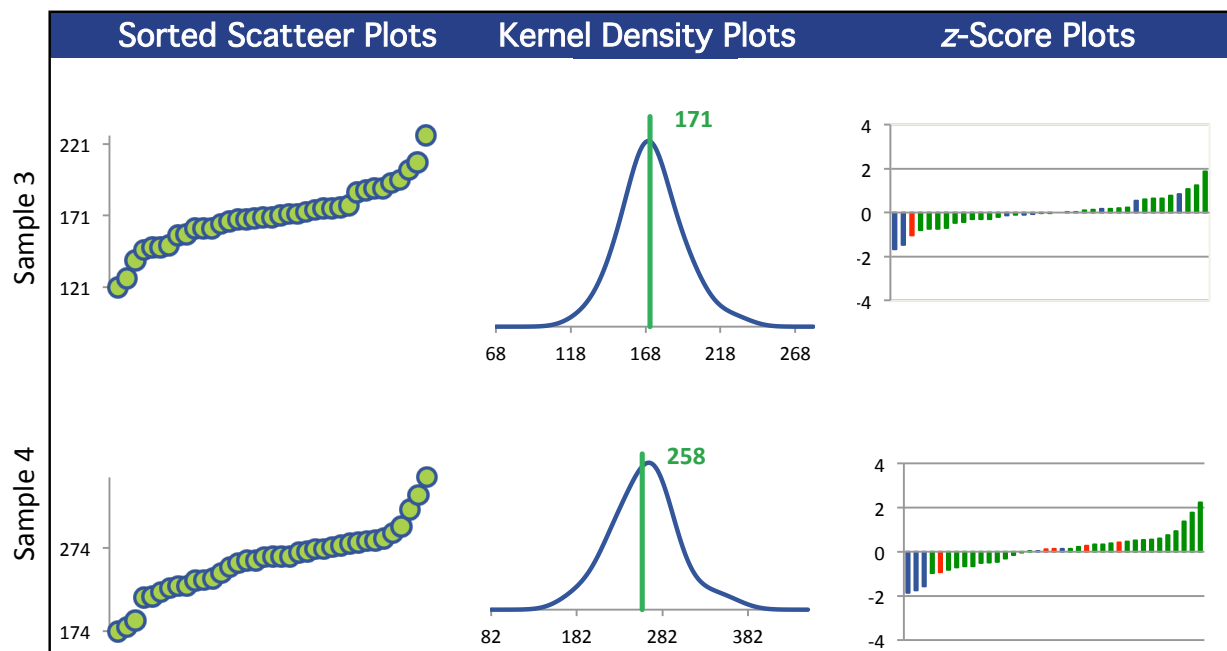
Methods Used

Method	C36-1	C36-2	C36-3	C36-4
GC/MS - HEADSPACE (Blue)	15	15	15	15
GC/MS - PURGE AND TRAP (Red)	18	18	18	18
GC/MS (Green)	4	4	4	4

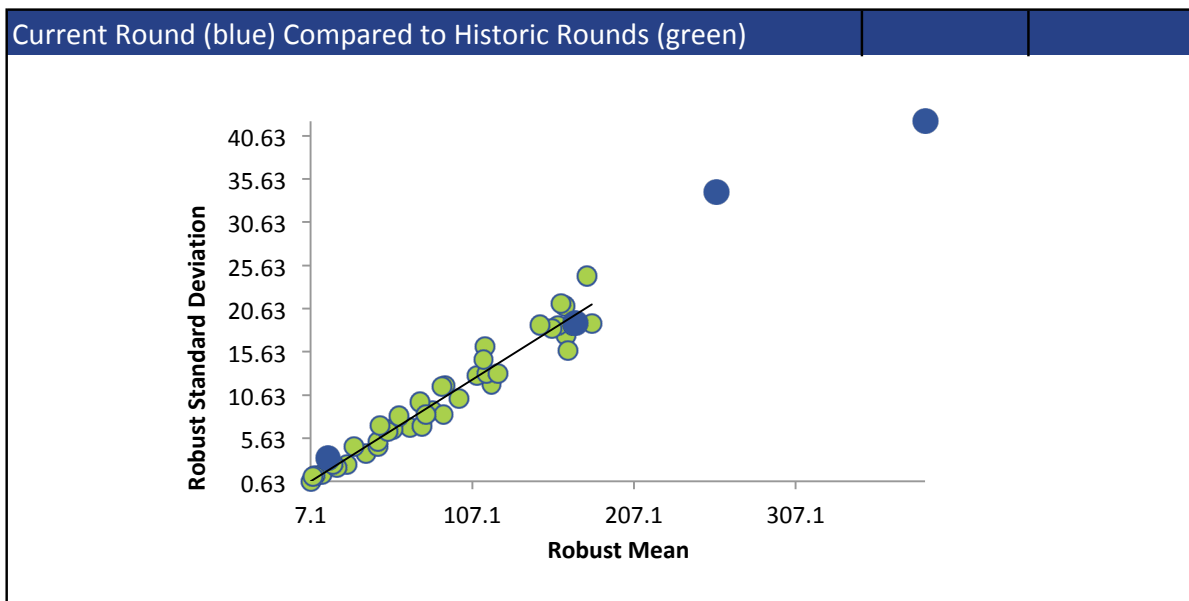
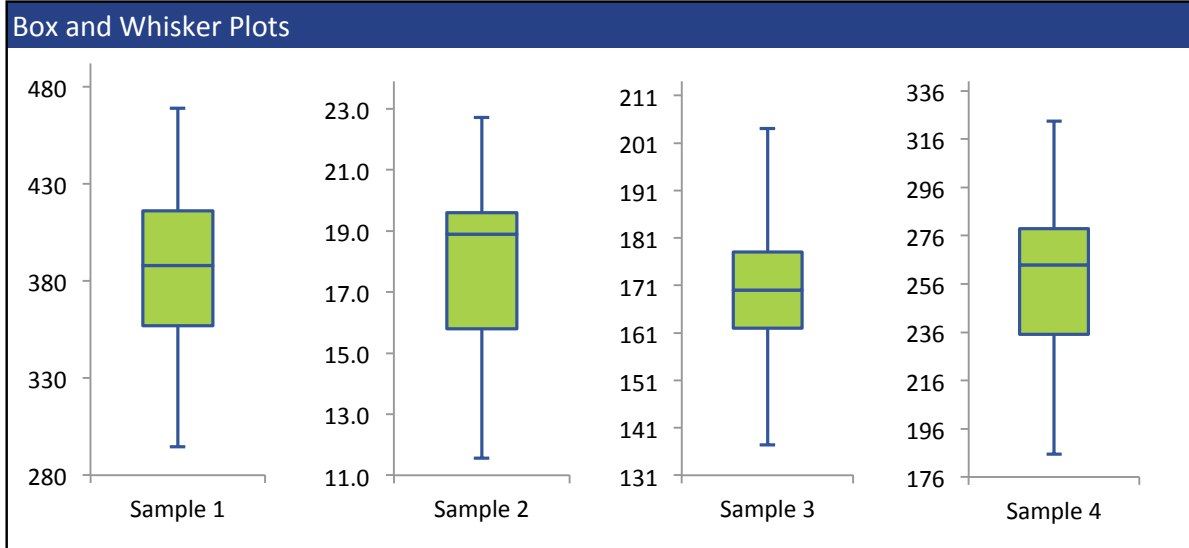
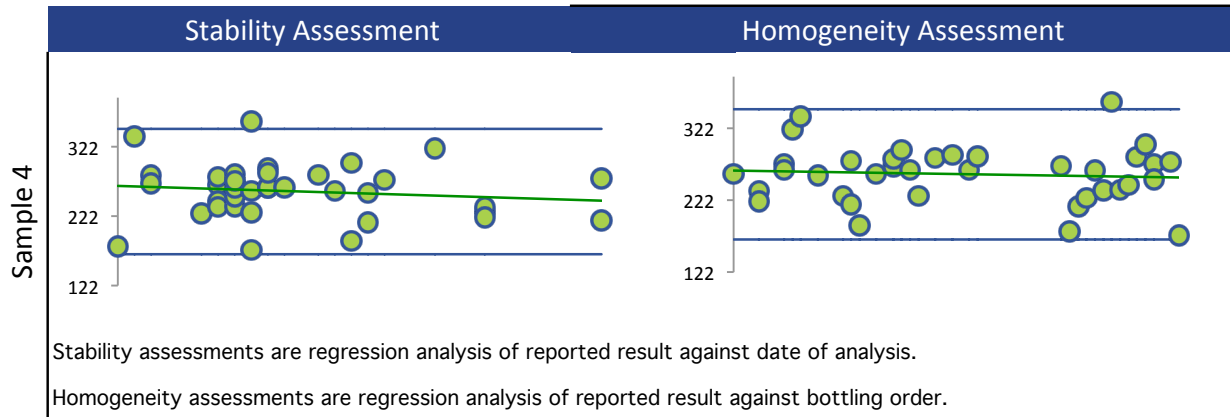
All summary stats and the plots below are based on the data excluding any flagged outliers



BROMODICHLOROMETHANE



BROMODICHLOROMETHANE



BROMOFORM

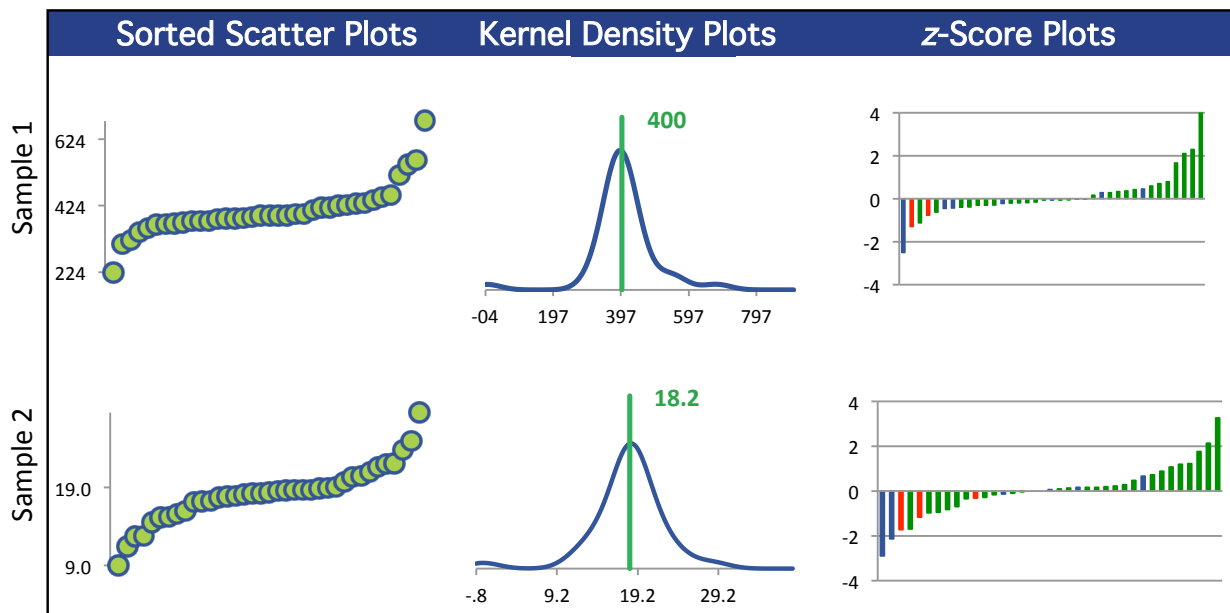
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	37	37	37	37
Median $\mu\text{g/g}$	395	18.4	170	273
Robust Mean $\mu\text{g/g}$	400	18.2	175	271
U $\mu\text{g/g}$	8.77	0.619	3.86	6.21
Robust Standard Deviation $\mu\text{g/g}$	42.7	3.01	18.8	30.2
Regression Standard Deviation $\mu\text{g/g}$	70.0	3.19	30.6	47.5
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) $\mu\text{g/g}$	70.0	3.19	30.6	47.5
Outliers	0	0	0	0
$ z > 3.0$	1	1	1	1
$2 < z < 3$	3	3	1	1

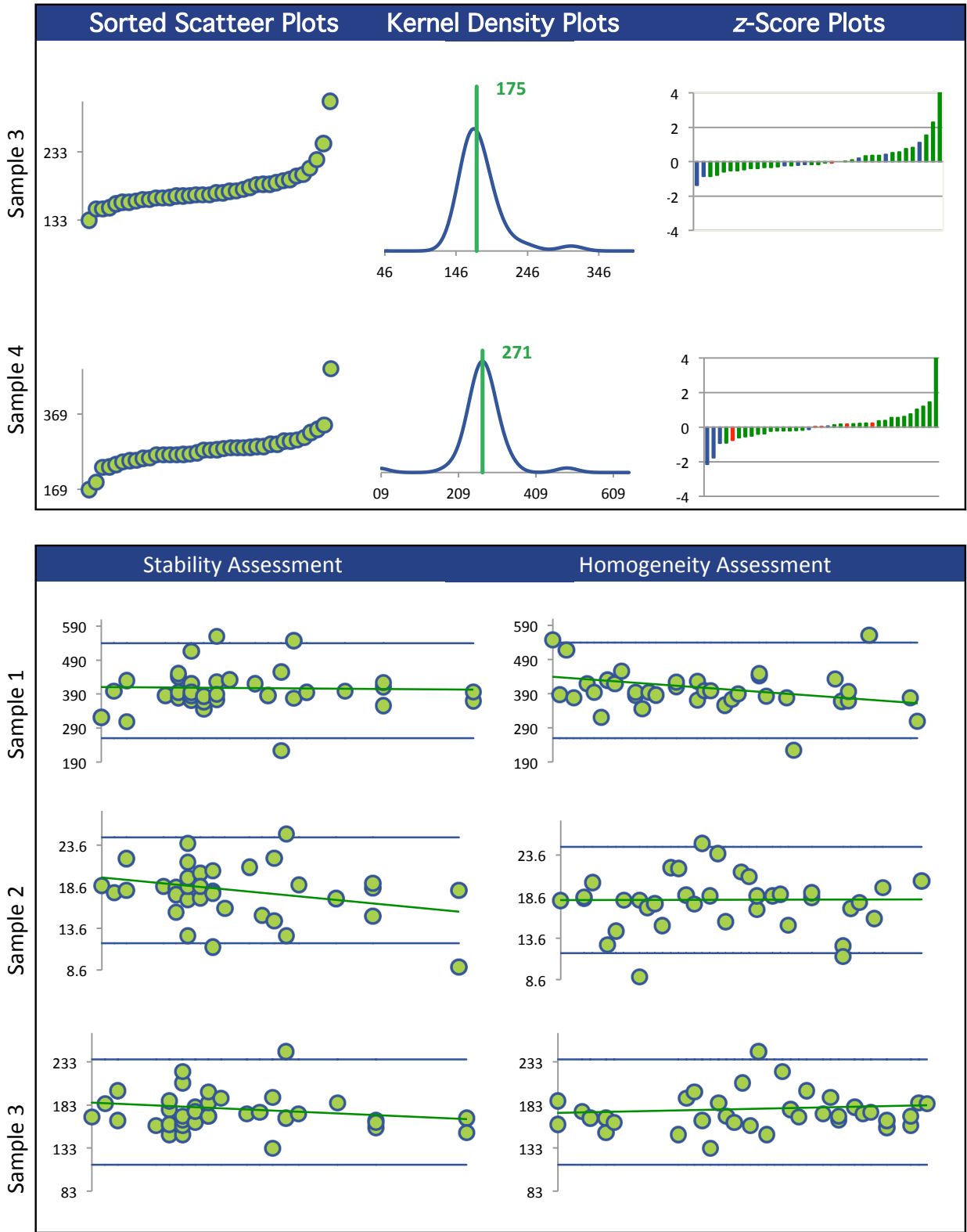
Methods Used

Method	C36-1	C36-2	C36-3	C36-4
GC/MS - PURGE AND TRAP (Blue)	19	19	19	19
GC/MS - HEADSPACE (Red)	15	15	15	15
GC/MS (Green)	3	3	3	3

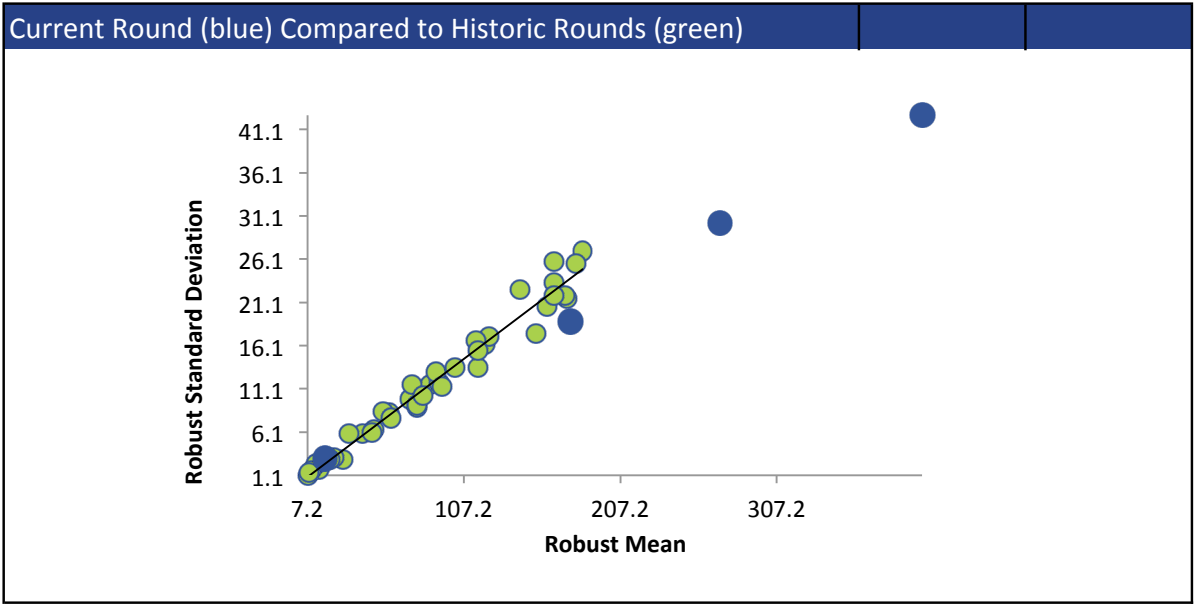
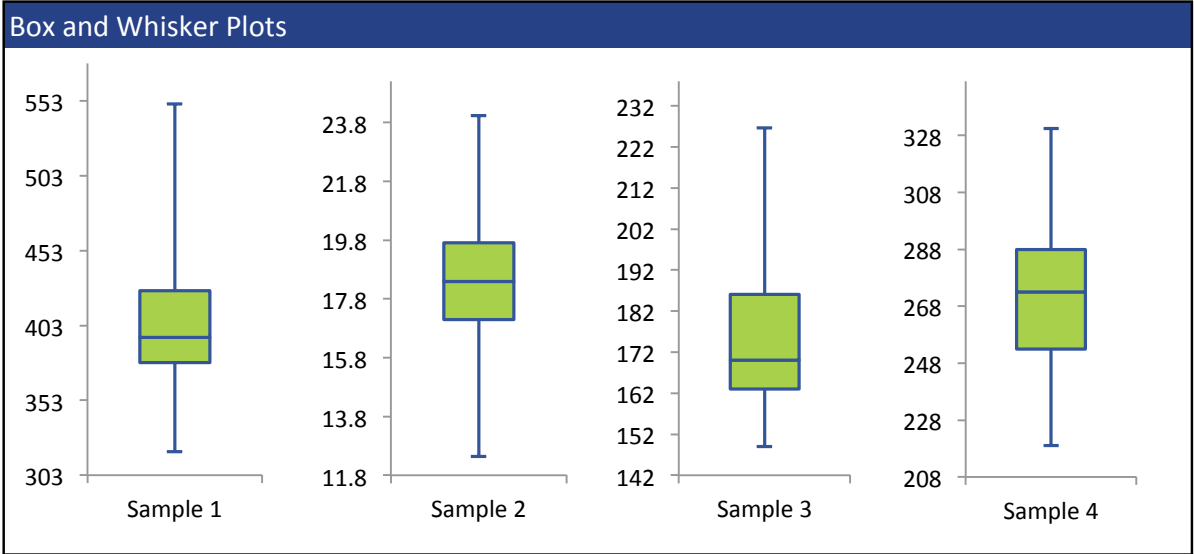
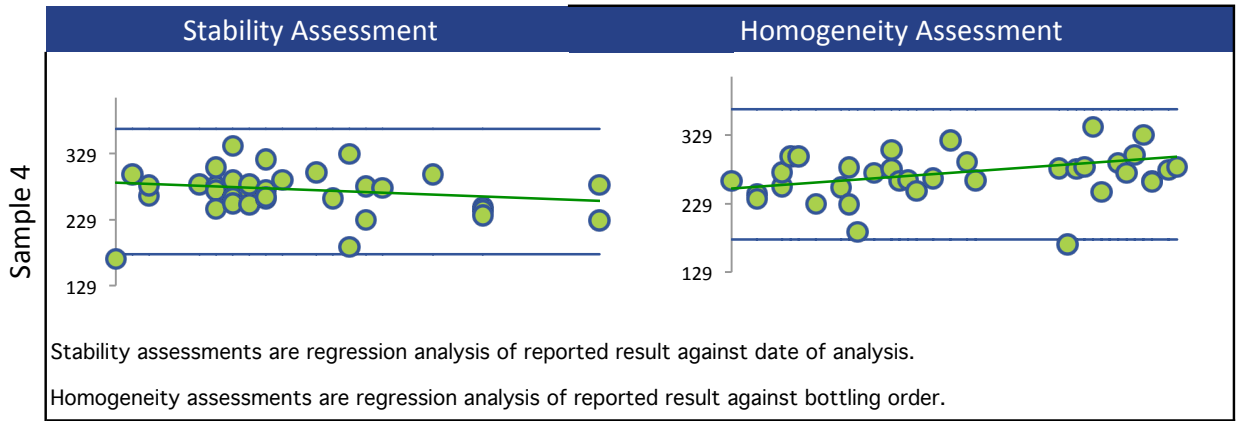
All summary stats and the plots below are based on the data excluding any flagged outliers



BROMOFORM



BROMOFORM



CARBON TETRACHLORIDE

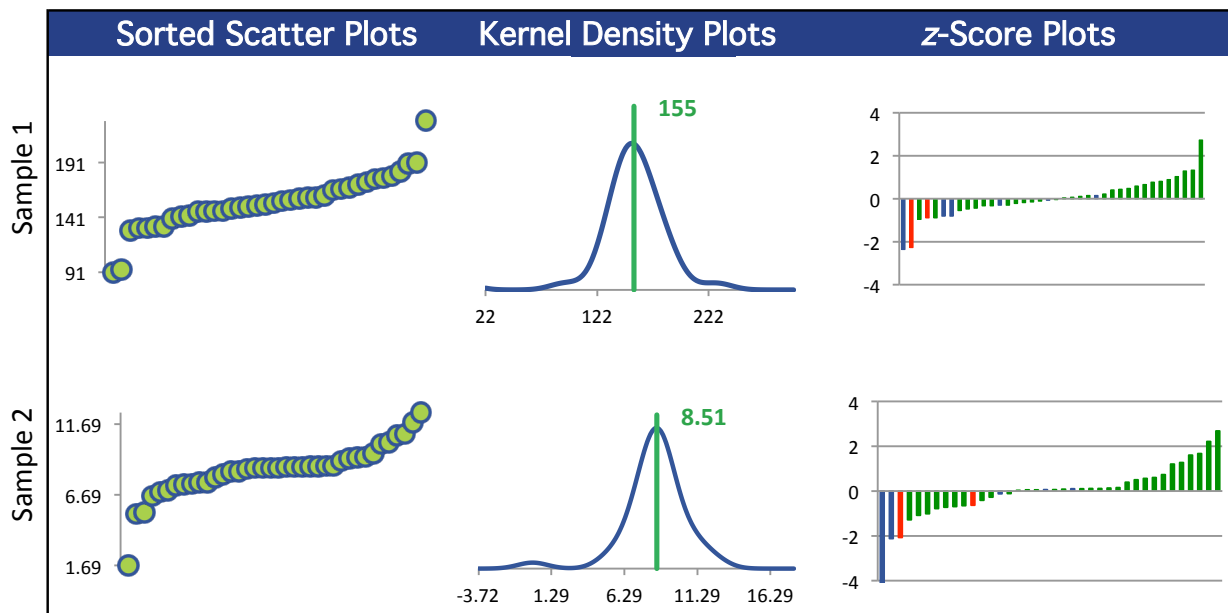
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	38	38	38	38
Median $\mu\text{g/g}$	154	8.60	67.7	103
Robust Mean $\mu\text{g/g}$	155	8.51	67.5	104
U $\mu\text{g/g}$	4.08	0.282	1.71	2.72
Robust Standard Deviation $\mu\text{g/g}$	20.1	1.39	8.45	13.4
Regression Standard Deviation $\mu\text{g/g}$	27.1	1.49	11.8	18.2
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) $\mu\text{g/g}$	27.1	1.49	11.8	18.2
Outliers	0	0	0	0
$ z > 3.0$	0	1	1	1
$2 < z < 3$	3	4	0	1

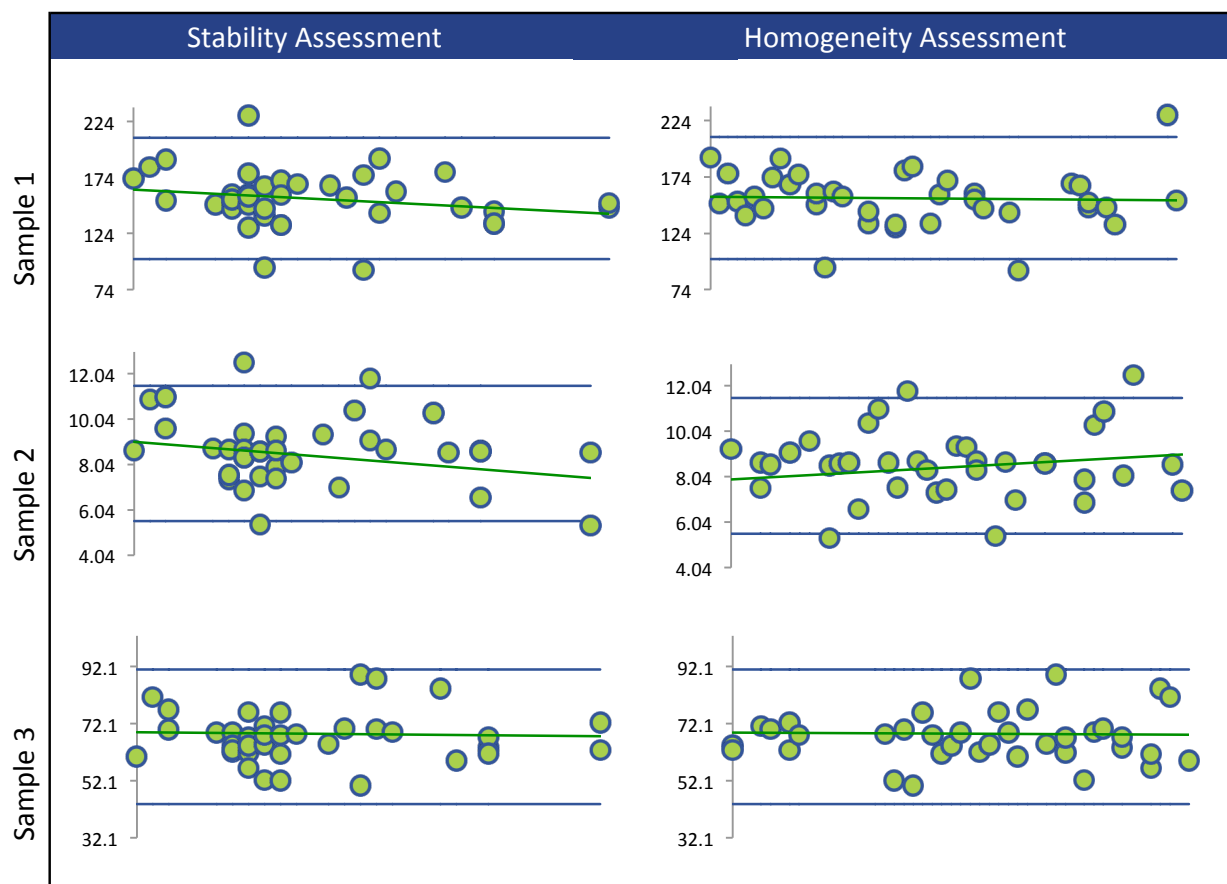
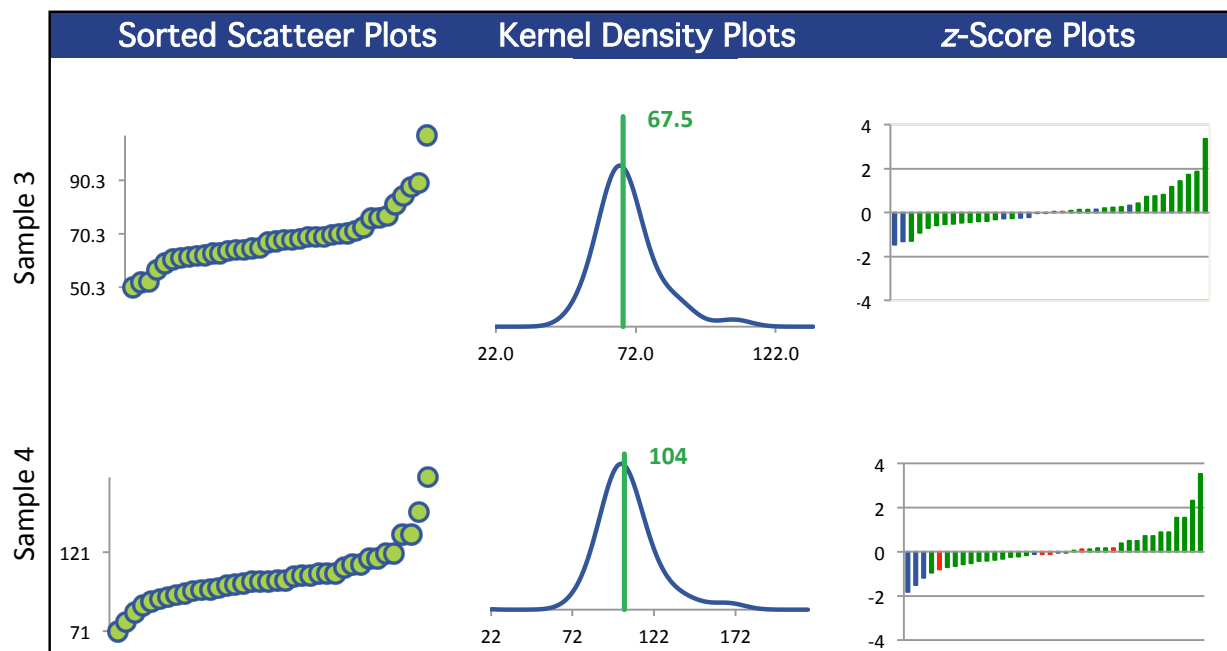
Methods Used

Method	C36-1	C36-2	C36-3	C36-4
GC/MS - PURGE AND TRAP (Blue)	18	18	18	18
GC/MS - HEADSPACE (Red)	16	16	16	16
GC/MS (Green)	4	4	4	4

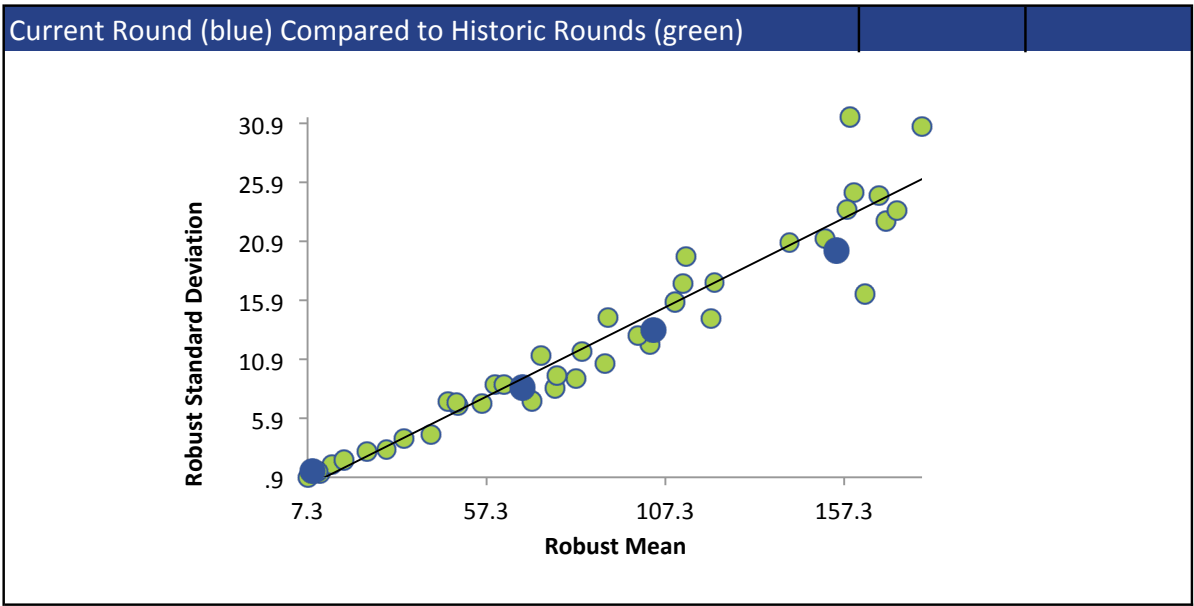
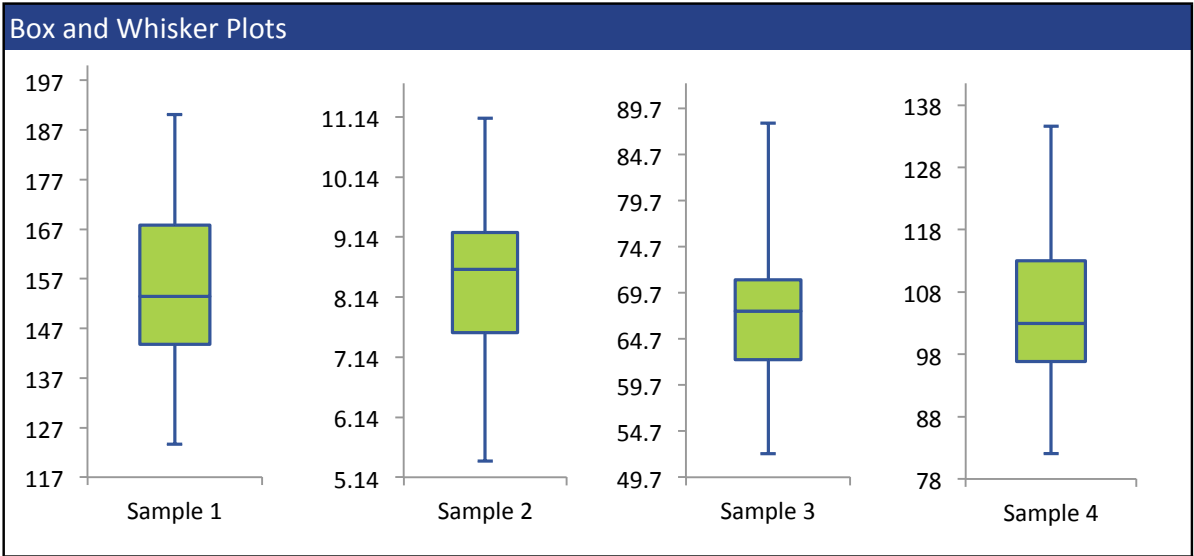
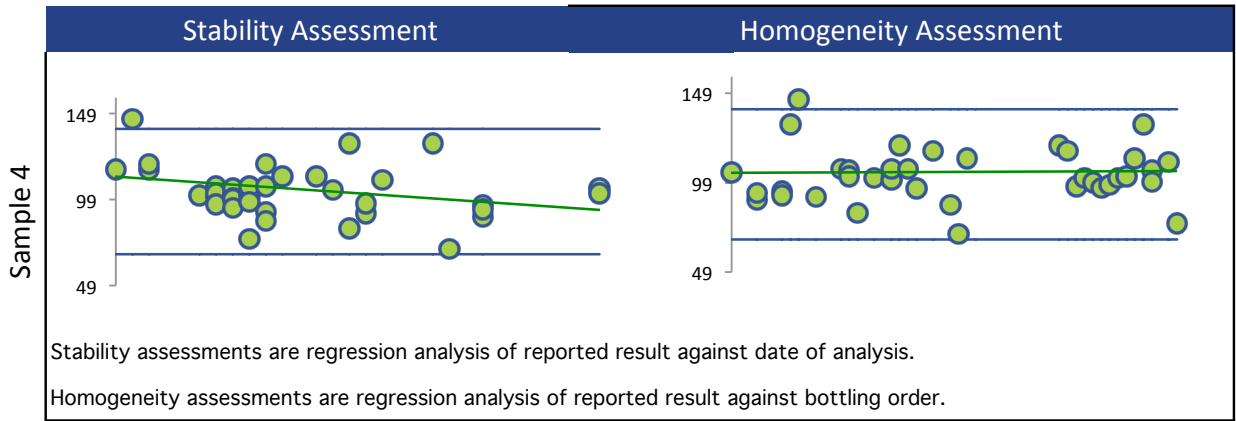
All summary stats and the plots below are based on the data excluding any flagged outliers



CARBON TETRACHLORIDE



CARBON TETRACHLORIDE



CHLOROBENZENE

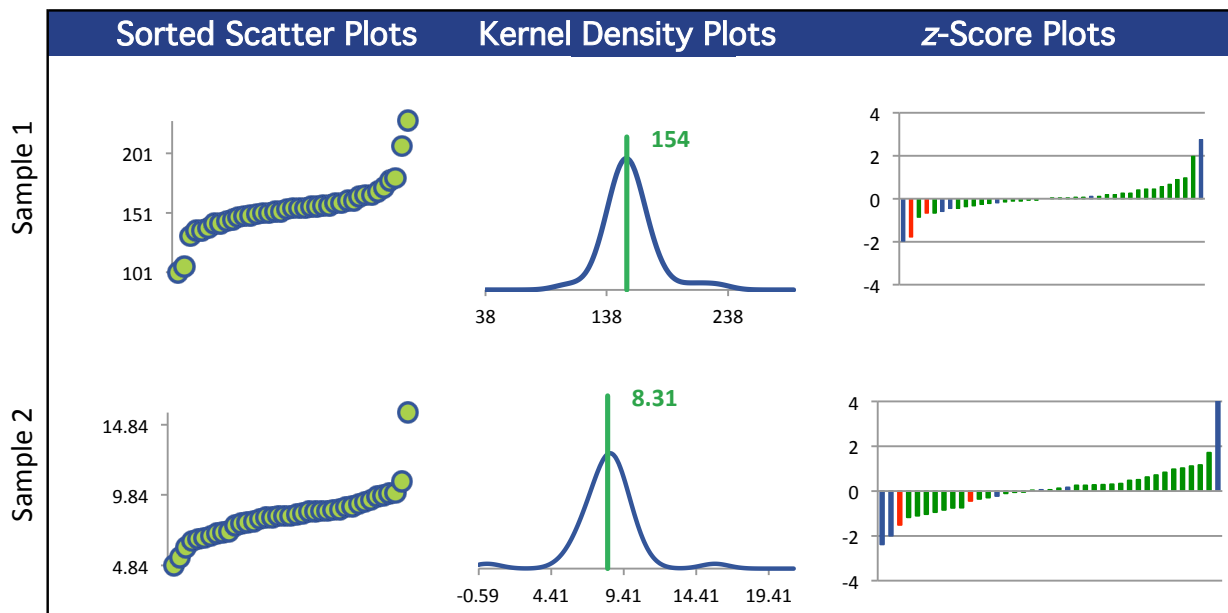
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	39	39	39	39
Median $\mu\text{g/g}$	155	8.39	66.8	103
Robust Mean $\mu\text{g/g}$	154	8.31	66.6	103
U $\mu\text{g/g}$	2.78	0.254	1.09	1.94
Robust Standard Deviation $\mu\text{g/g}$	13.9	1.27	5.43	9.68
Regression Standard Deviation $\mu\text{g/g}$	26.9	1.46	11.7	18.1
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) $\mu\text{g/g}$	26.9	1.46	11.7	18.1
Outliers	0	0	0	0
$ z > 3.0$	0	1	1	0
$2 < z < 3$	1	1	1	1

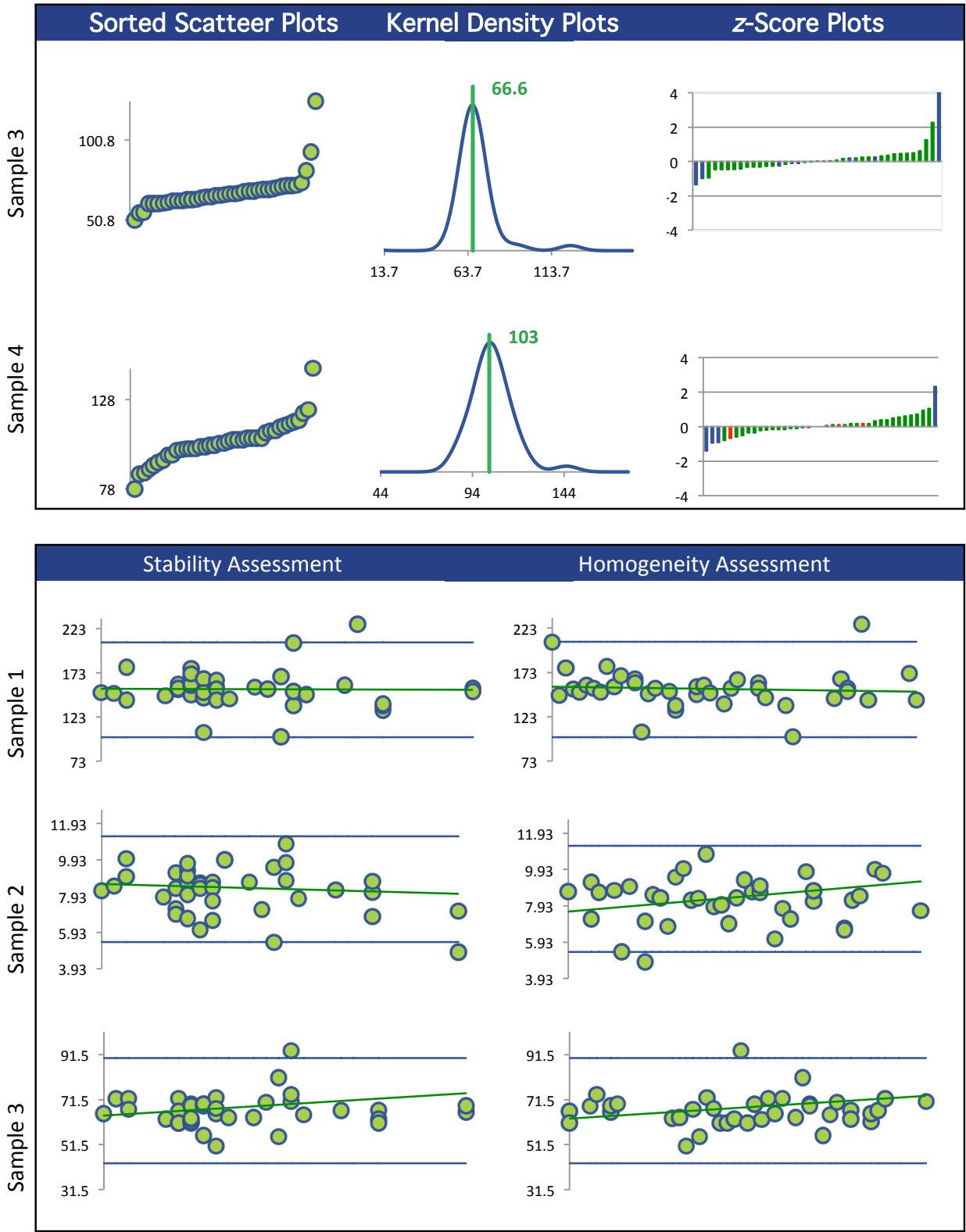
Methods Used

Method	C36-1	C36-2	C36-3	C36-4
GC/MS - PURGE AND TRAP (Blue)	18	18	18	18
GC/MS - HEADSPACE (Red)	16	16	16	16
GC/MS (Green)	5	5	5	5

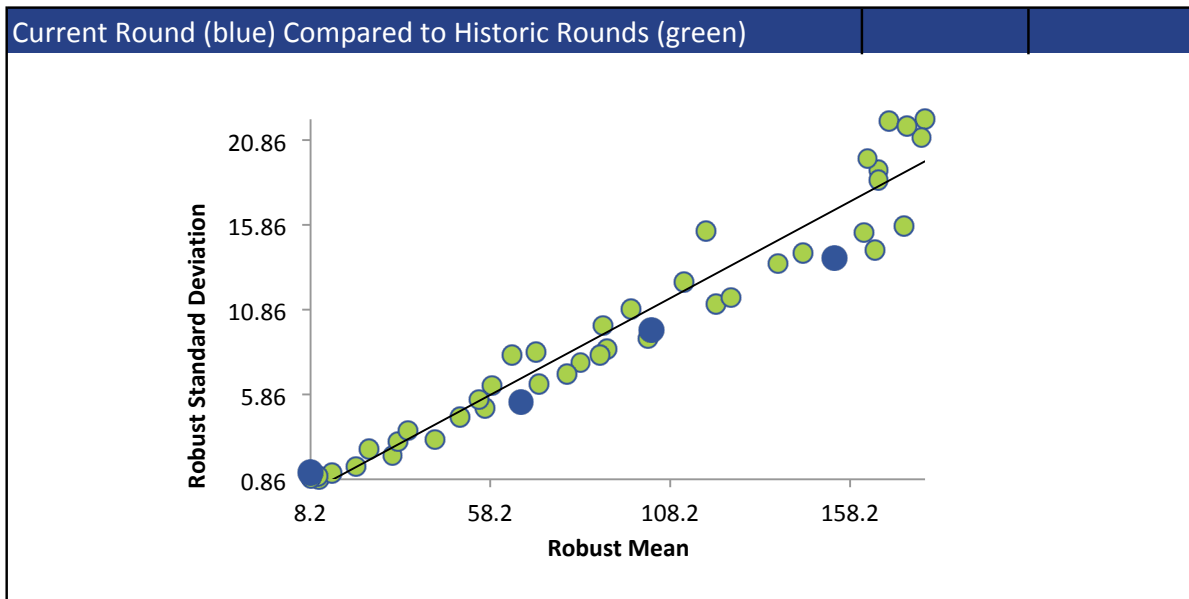
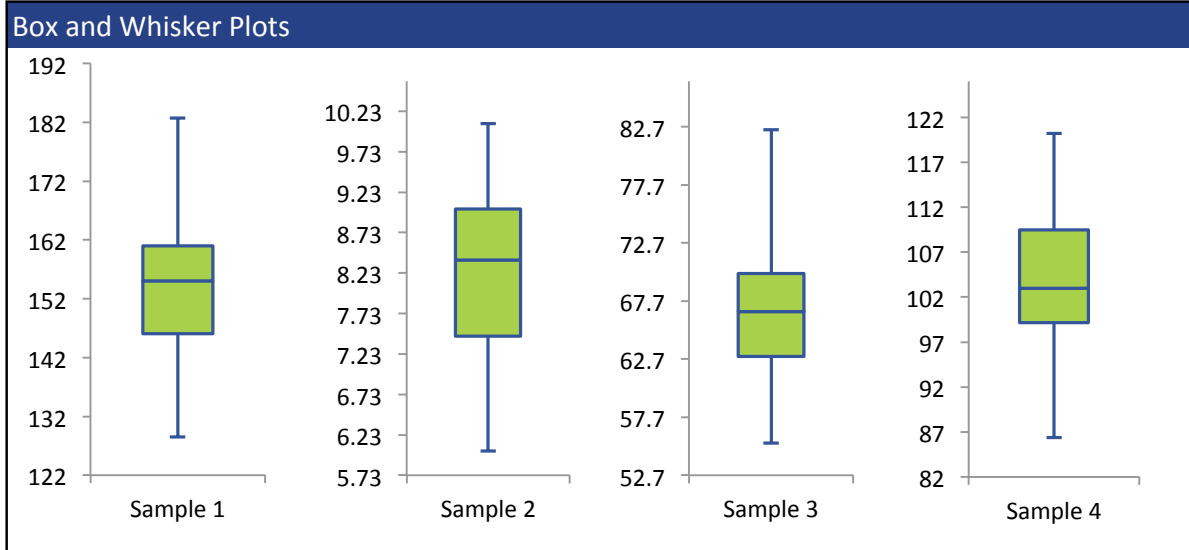
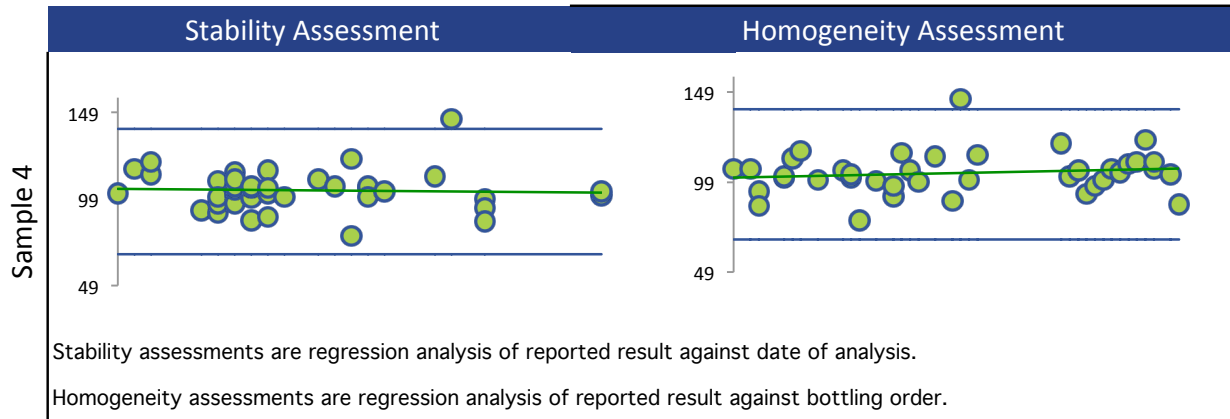
All summary stats and the plots below are based on the data excluding any flagged outliers



CHLOROBENZENE



CHLOROBENZENE



CHLORODIBROMOMETHANE

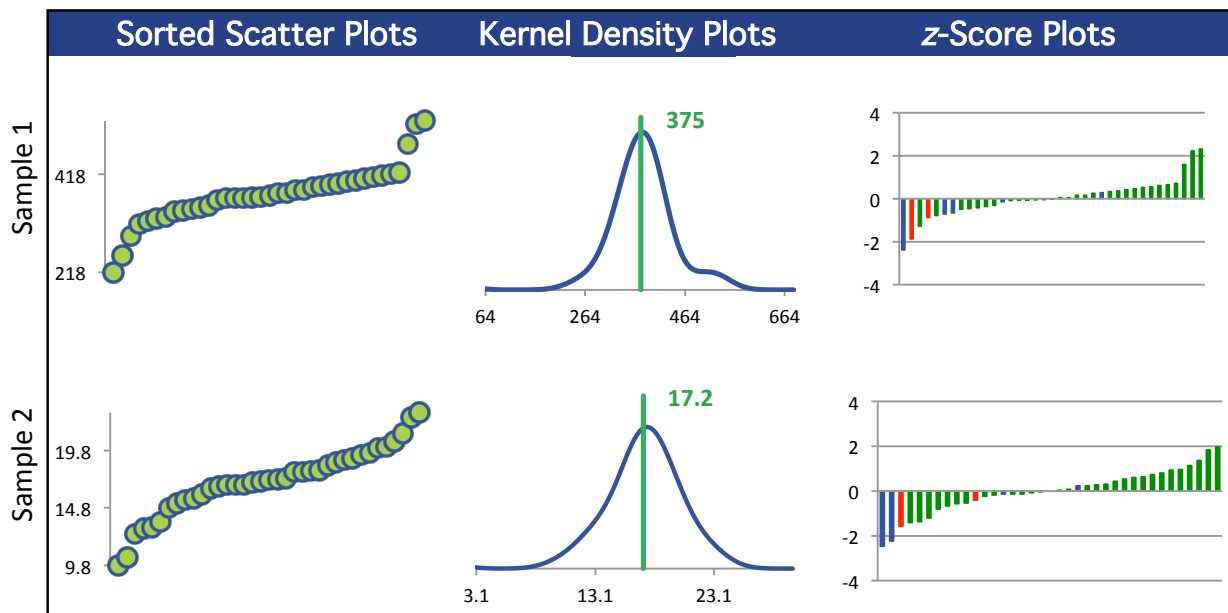
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	37	37	37	37
Median $\mu\text{g/g}$	374	17.2	164	254
Robust Mean $\mu\text{g/g}$	375	17.2	165	254
U $\mu\text{g/g}$	8.75	0.582	3.12	5.53
Robust Standard Deviation $\mu\text{g/g}$	42.6	2.83	15.2	26.9
Regression Standard Deviation $\mu\text{g/g}$	65.6	3.01	28.8	44.5
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) $\mu\text{g/g}$	65.6	3.01	28.8	44.5
Outliers	0	0	0	0
$ z > 3.0$	0	0	0	0
$2 < z < 3$	3	2	1	1

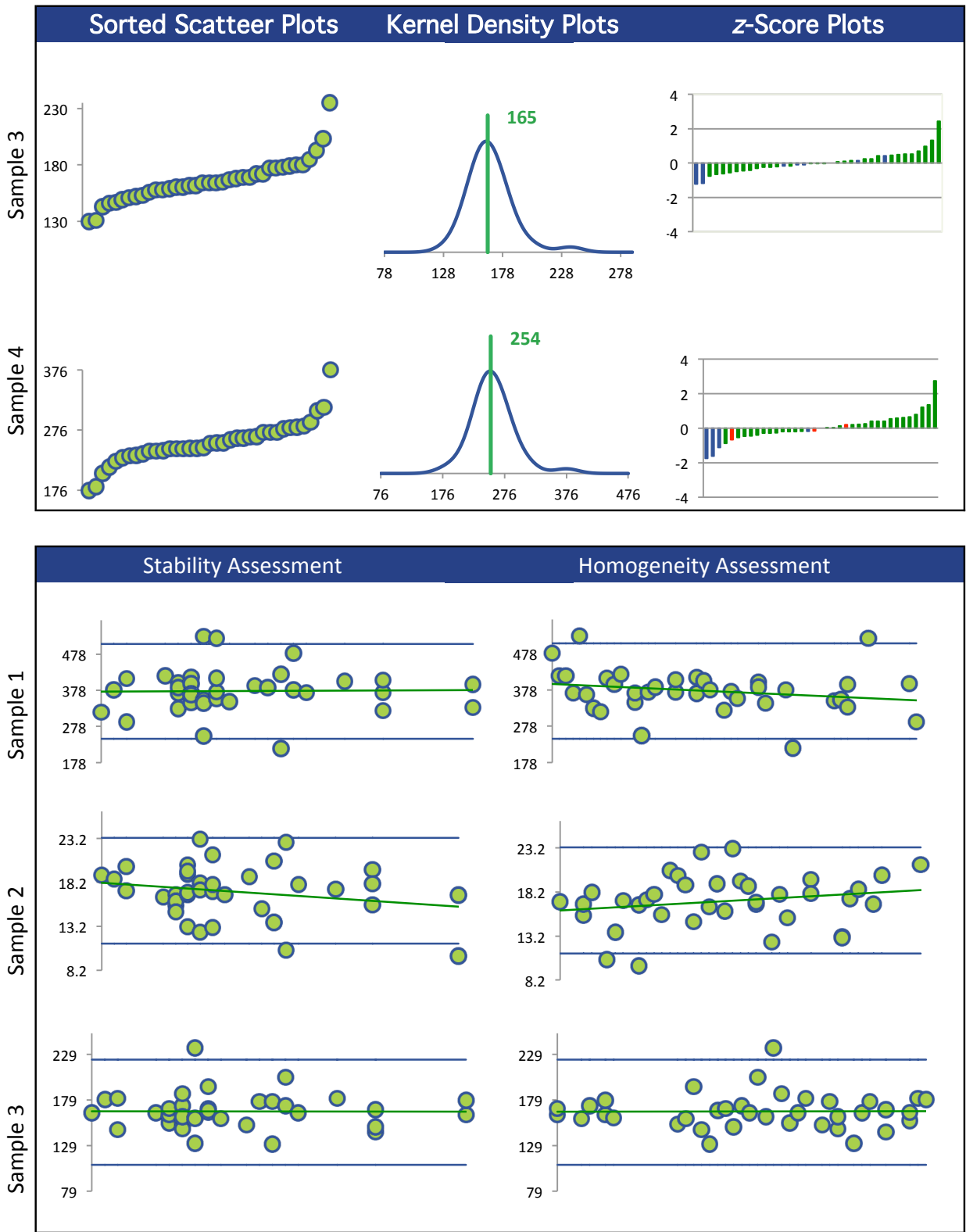
Methods Used

Method	C36-1	C36-2	C36-3	C36-4
GC/MS - PURGE AND TRAP (Blue)	18	18	18	18
GC/MS - HEADSPACE (Red)	15	15	15	15
GC/MS (Green)	4	4	4	4

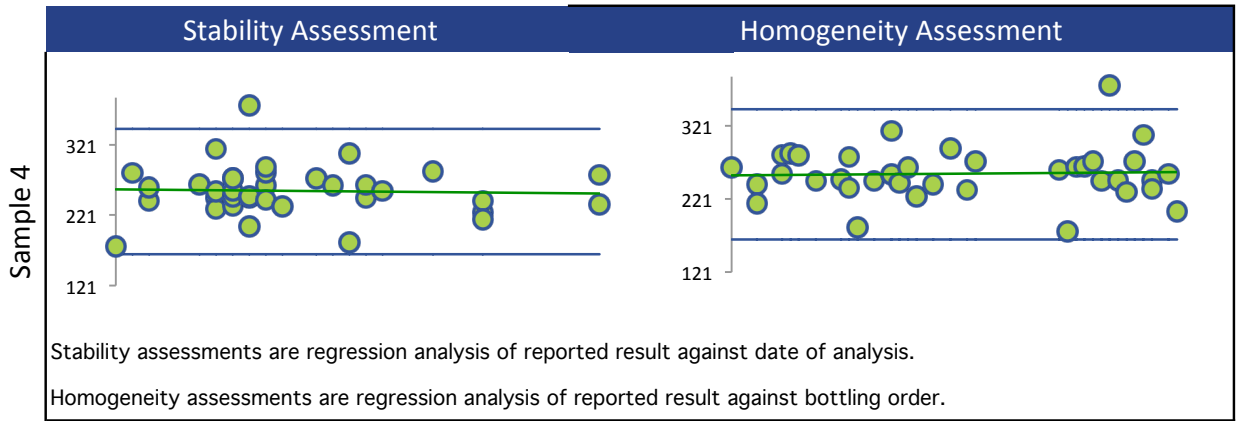
All summary stats and the plots below are based on the data excluding any flagged outliers



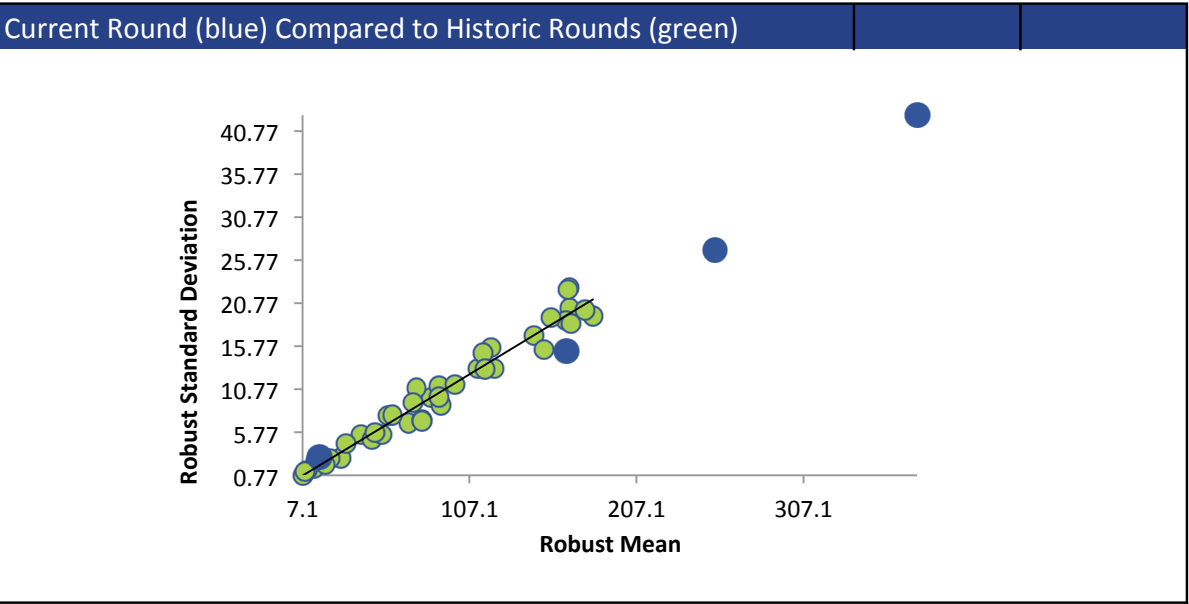
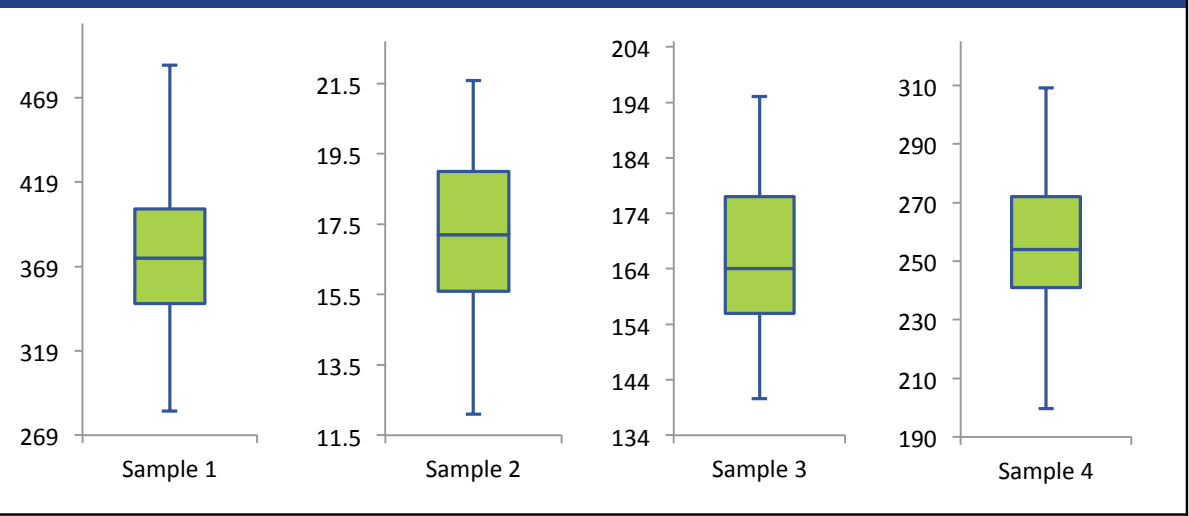
CHLORODIBROMOMETHANE



CHLORODIBROMOMETHANE



Box and Whisker Plots



CHLOROFORM

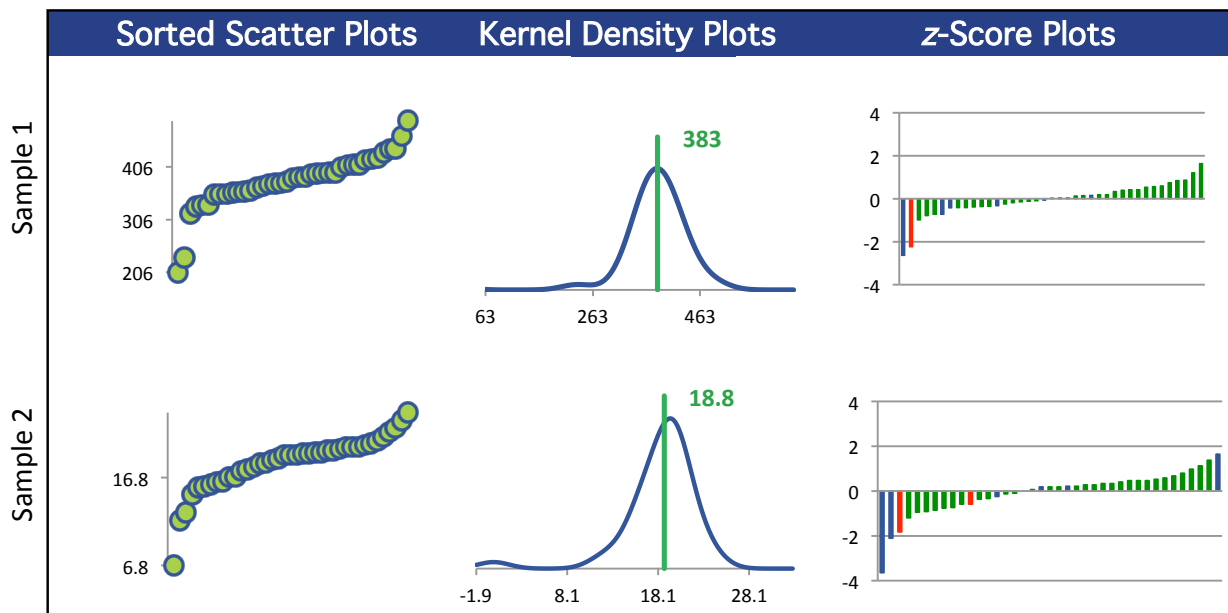
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	39	39	39	39
Median $\mu\text{g/g}$	385	19.4	170	261
Robust Mean $\mu\text{g/g}$	383	18.8	173	260
U $\mu\text{g/g}$	8.11	0.514	4.00	5.98
Robust Standard Deviation $\mu\text{g/g}$	40.5	2.57	20.0	29.9
Regression Standard Deviation $\mu\text{g/g}$	67.0	3.29	30.3	45.5
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) $\mu\text{g/g}$	67.0	3.29	30.3	45.5
Outliers	0	0	0	0
$ z > 3.0$	0	1	0	0
$2 < z < 3$	2	1	0	0

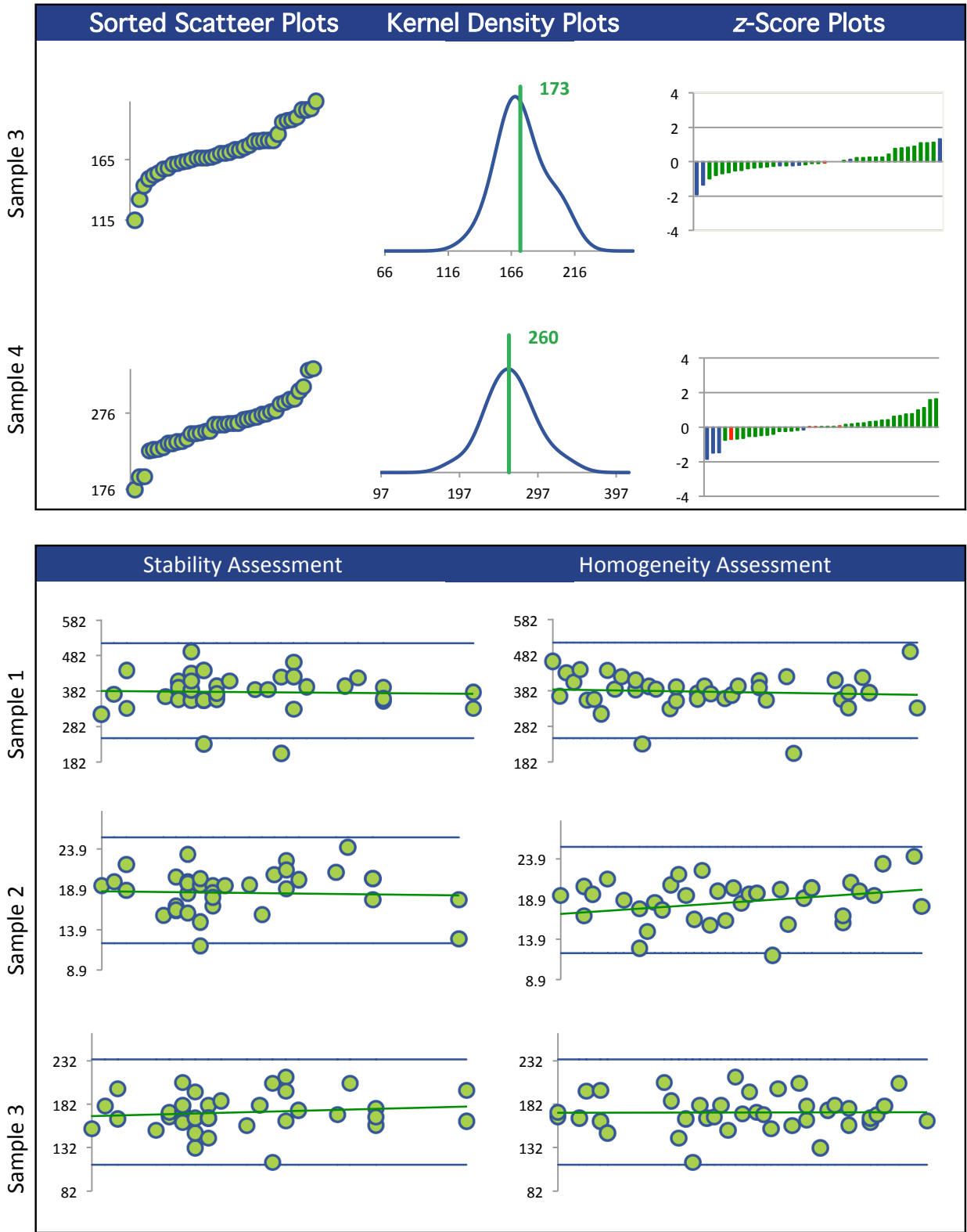
Methods Used

Method	C36-1	C36-2	C36-3	C36-4
GC/MS - PURGE AND TRAP (Blue)	18	18	18	18
GC/MS - HEADSPACE (Red)	16	16	16	16
GC/MS (Green)	5	5	5	5

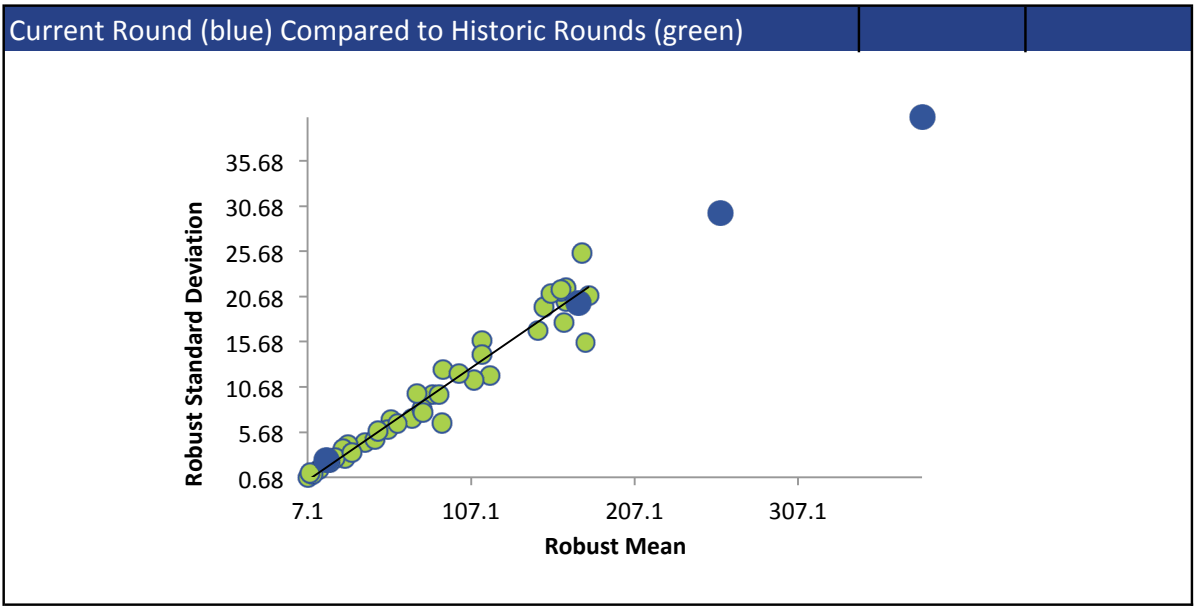
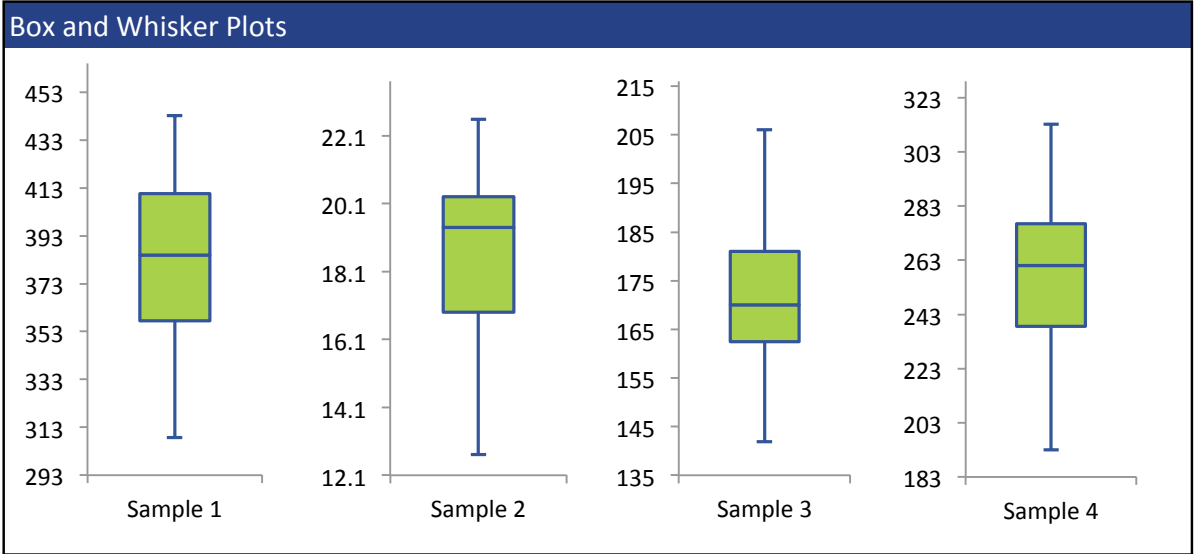
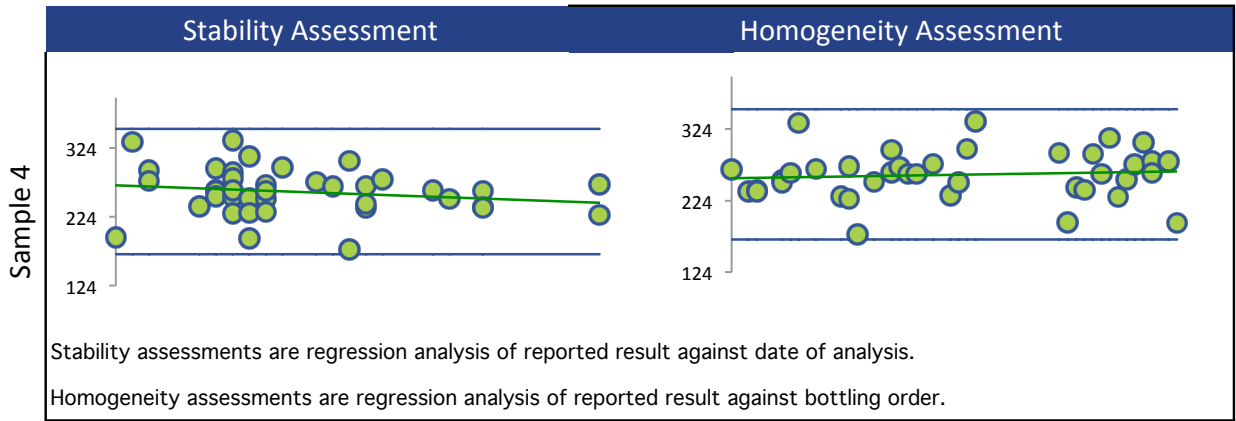
All summary stats and the plots below are based on the data excluding any flagged outliers



CHLOROFORM



CHLOROFORM



CIS-1,2-DICHLOROETHYLENE

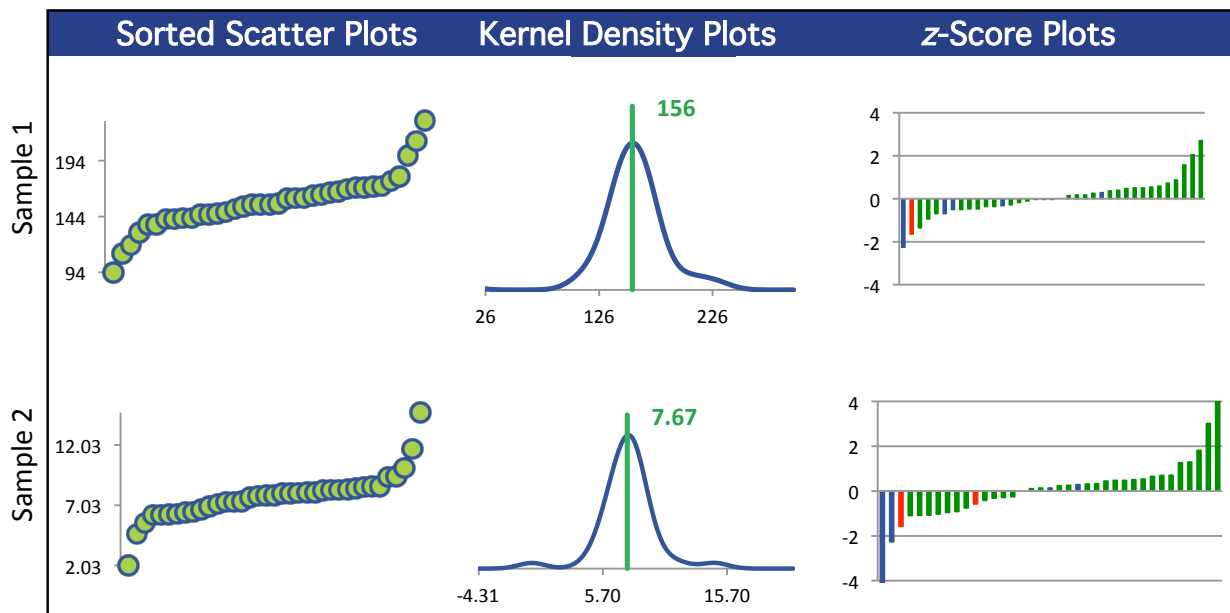
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	37	37	37	37
Median $\mu\text{g/g}$	155	7.85	69.1	105
Robust Mean $\mu\text{g/g}$	156	7.67	68.9	104
U $\mu\text{g/g}$	3.78	0.269	1.58	2.67
Robust Standard Deviation $\mu\text{g/g}$	18.4	1.31	7.70	13.0
Regression Standard Deviation $\mu\text{g/g}$	27.3	1.34	12.1	18.3
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) $\mu\text{g/g}$	27.3	1.34	12.1	18.3
Outliers	0	0	0	0
$ z > 3.0$	0	3	1	0
$2 < z < 3$	3	1	2	1

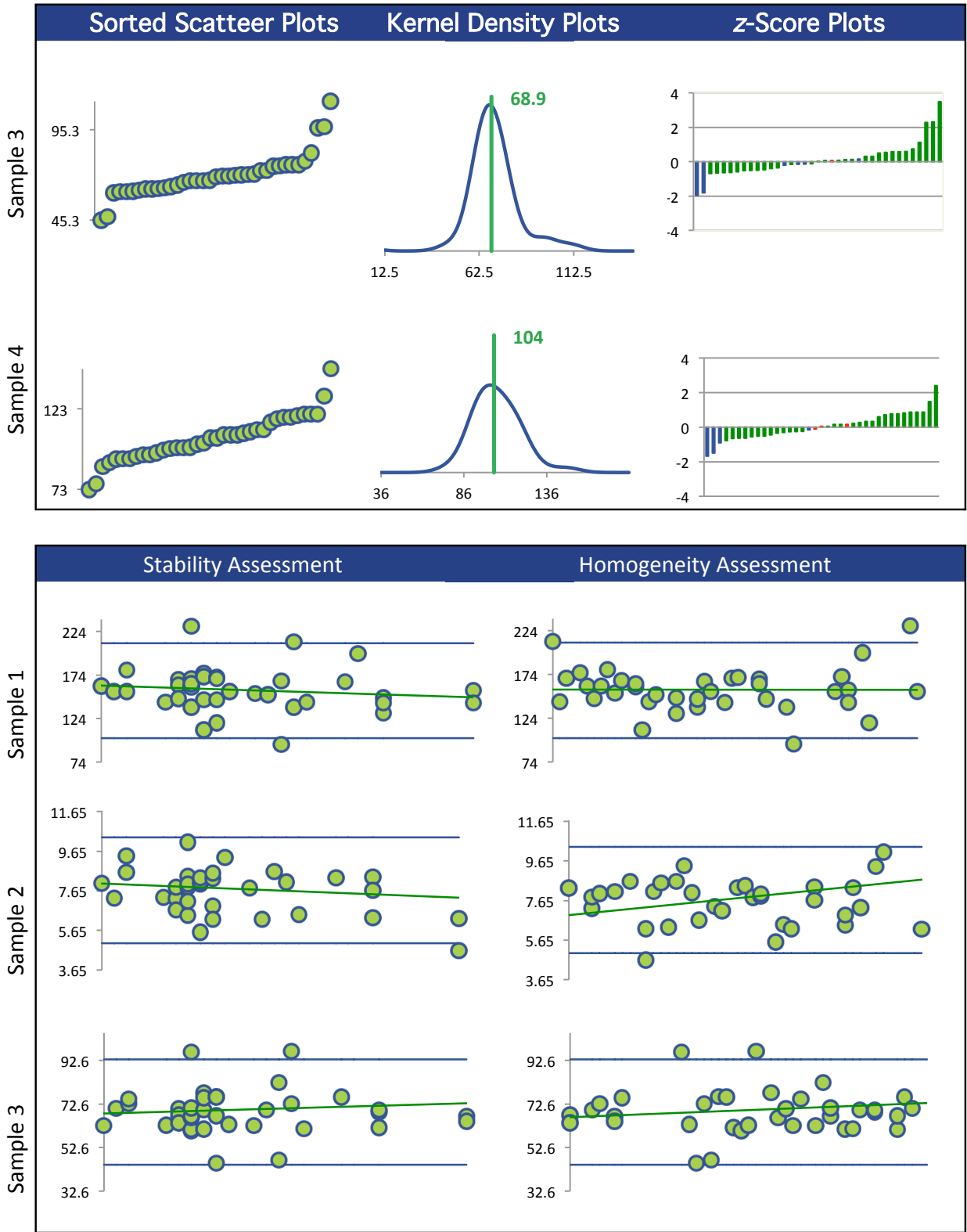
Methods Used

Method	C36-1	C36-2	C36-3	C36-4
GC/MS - PURGE AND TRAP (Blue)	17	17	17	17
GC/MS - HEADSPACE (Red)	15	15	15	15
GC/MS (Green)	5	5	5	5

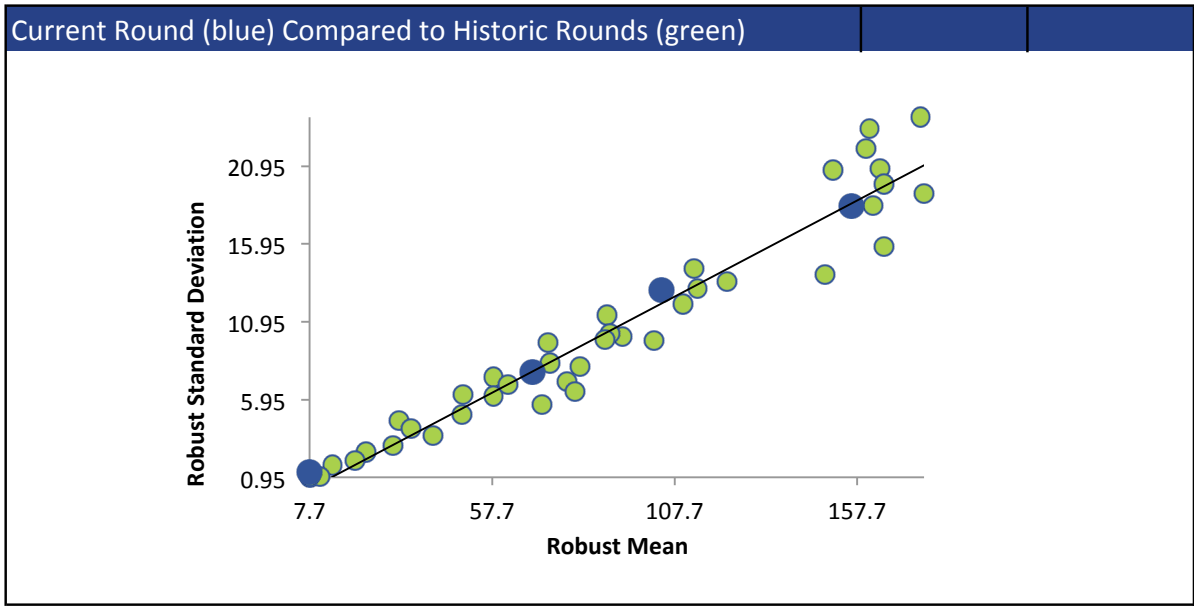
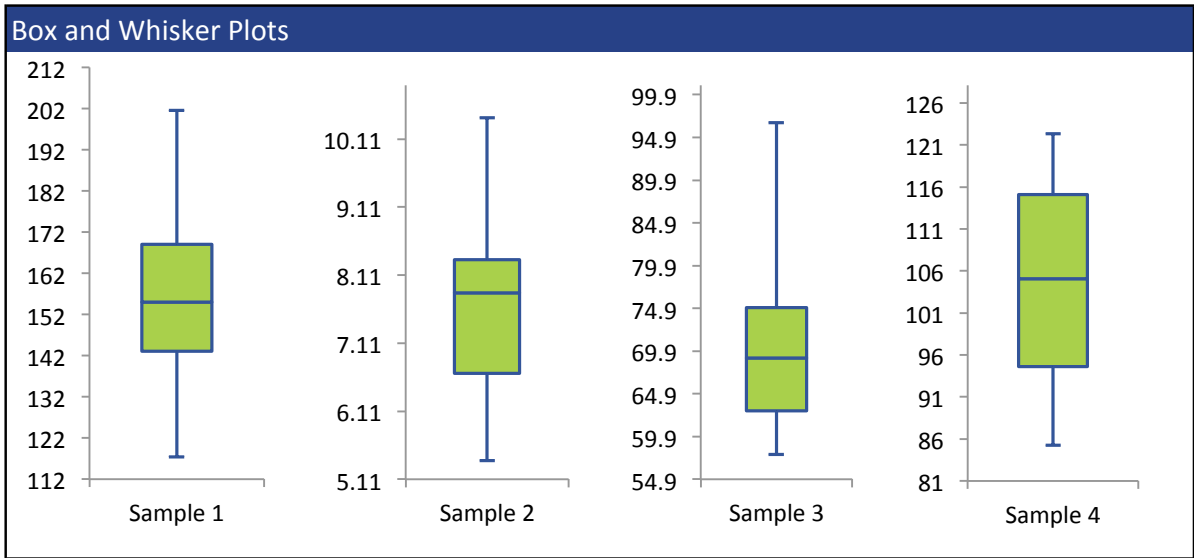
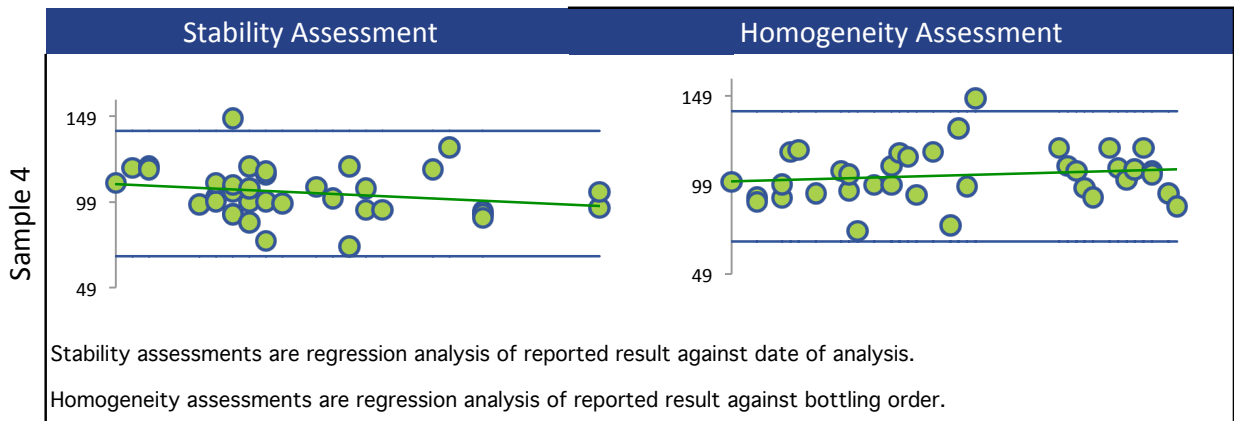
All summary stats and the plots below are based on the data excluding any flagged outliers



CIS-1,2-DICHLOROETHYLENE



CIS-1,2-DICHLOROETHYLENE



CIS-1,3-DICHLOROPROPENE

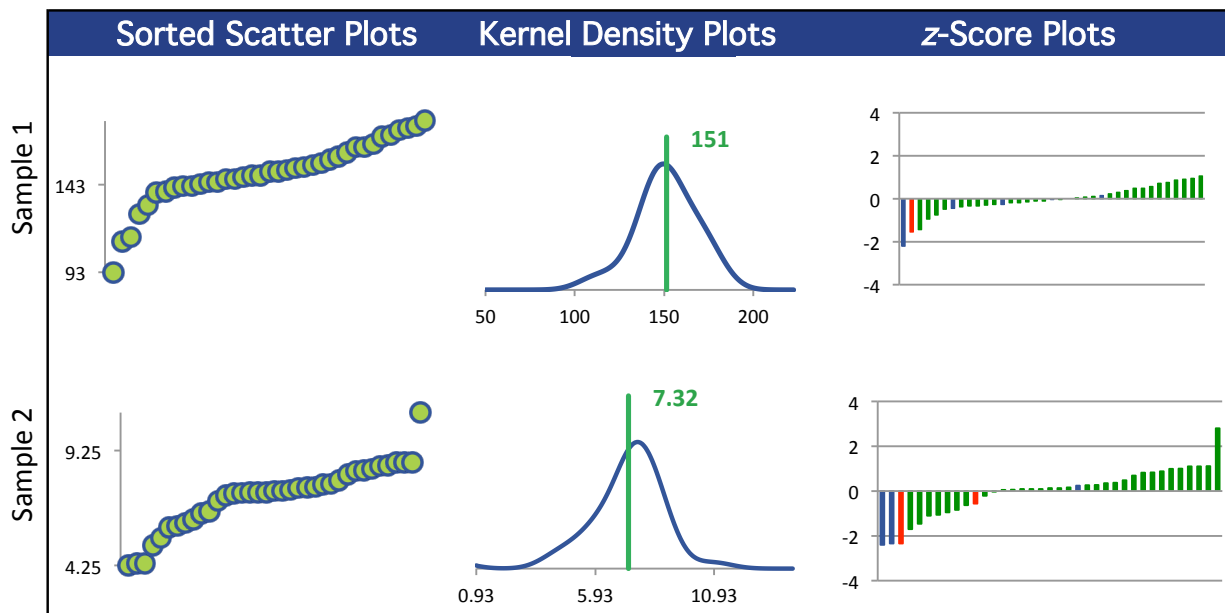
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	37	37	37	37
Median $\mu\text{g/g}$	150	7.49	64.3	100
Robust Mean $\mu\text{g/g}$	151	7.32	63.9	99.4
U $\mu\text{g/g}$	3.37	0.257	1.59	2.08
Robust Standard Deviation $\mu\text{g/g}$	16.4	1.25	7.73	10.1
Regression Standard Deviation $\mu\text{g/g}$	26.4	1.28	11.2	17.4
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) $\mu\text{g/g}$	26.4	1.28	11.2	17.4
Outliers	0	0	0	0
$ z > 3.0$	0	0	0	0
$2 < z < 3$	1	4	0	1

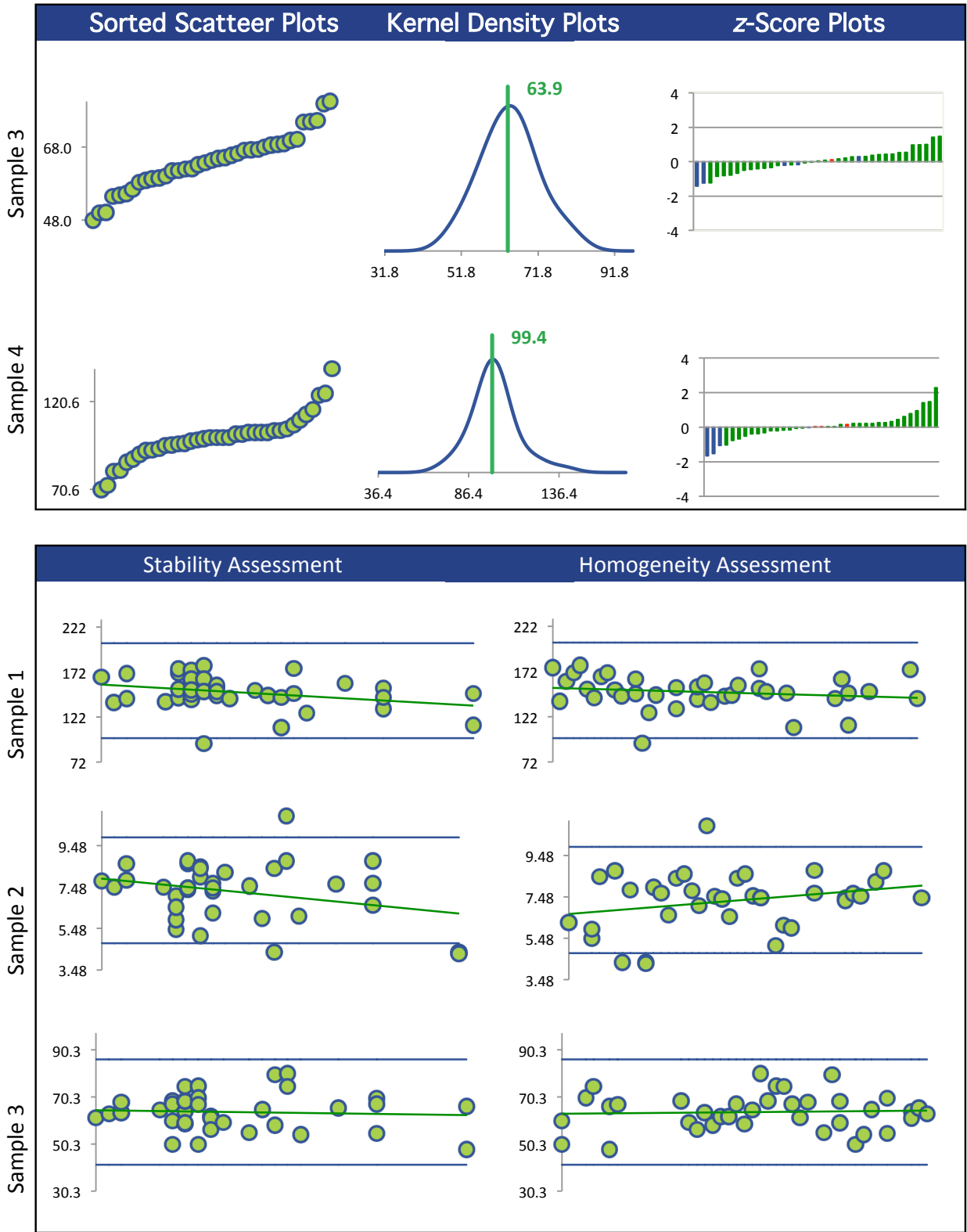
Methods Used

Method	C36-1	C36-2	C36-3	C36-4
GC/MS - HEADSPACE (Blue)	15	15	15	15
GC/MS - PURGE AND TRAP (Red)	17	17	17	17
GC/MS (Green)	5	5	5	5

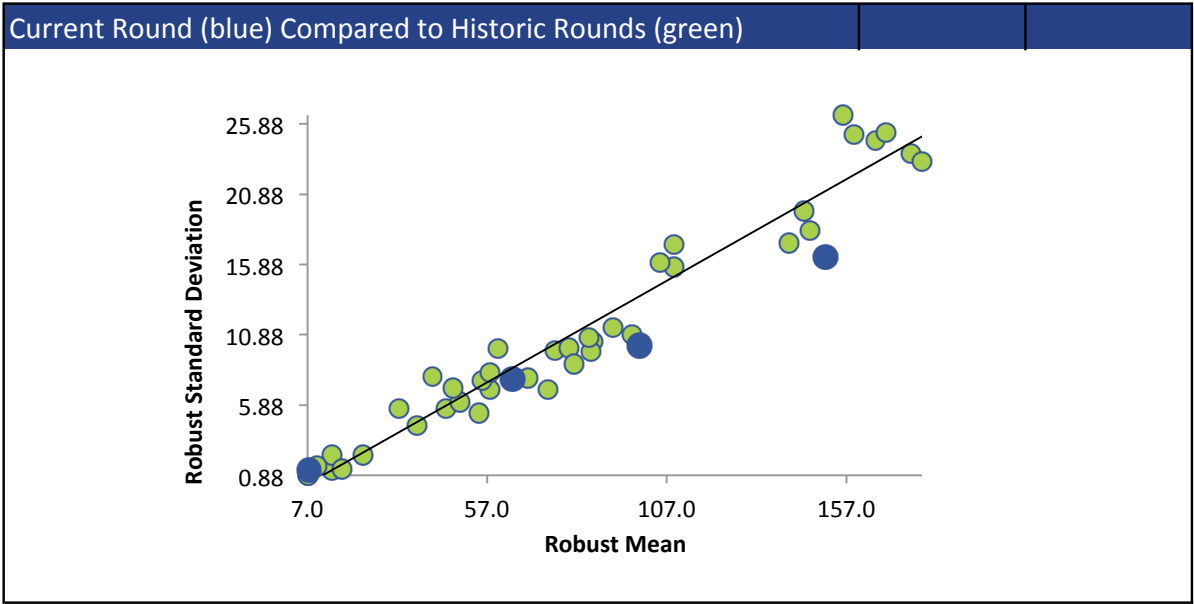
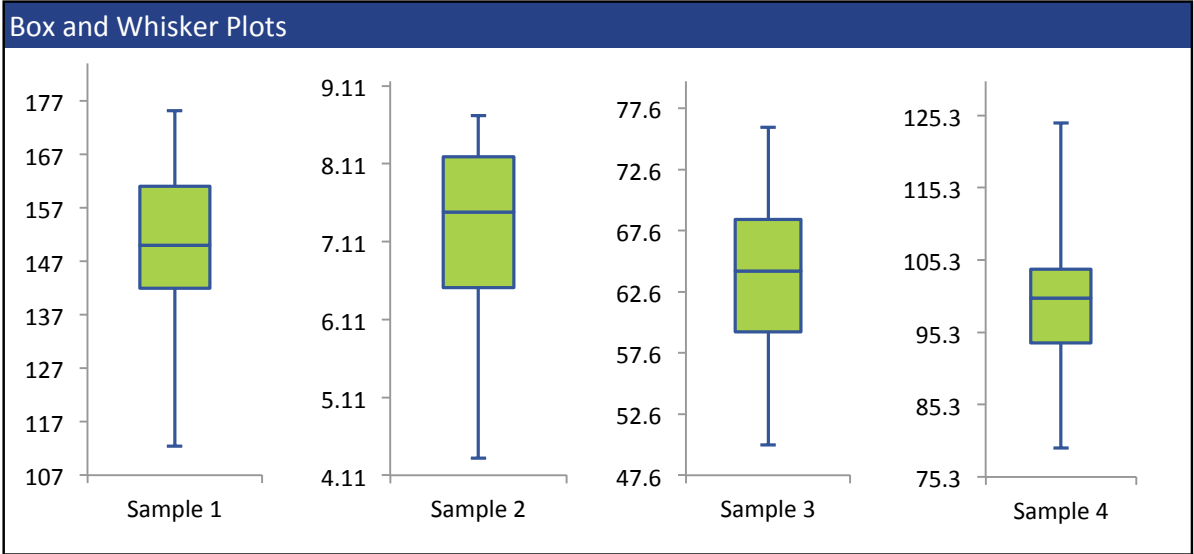
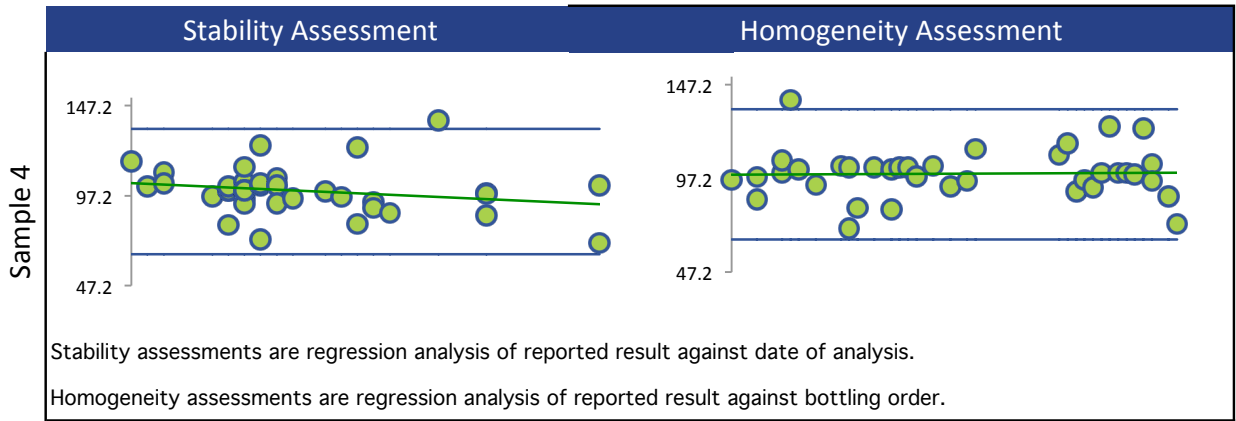
All summary stats and the plots below are based on the data excluding any flagged outliers



CIS-1,3-DICHLOROPROPENE



CIS-1,3-DICHLOROPROPENE



DICHLOROMETHANE

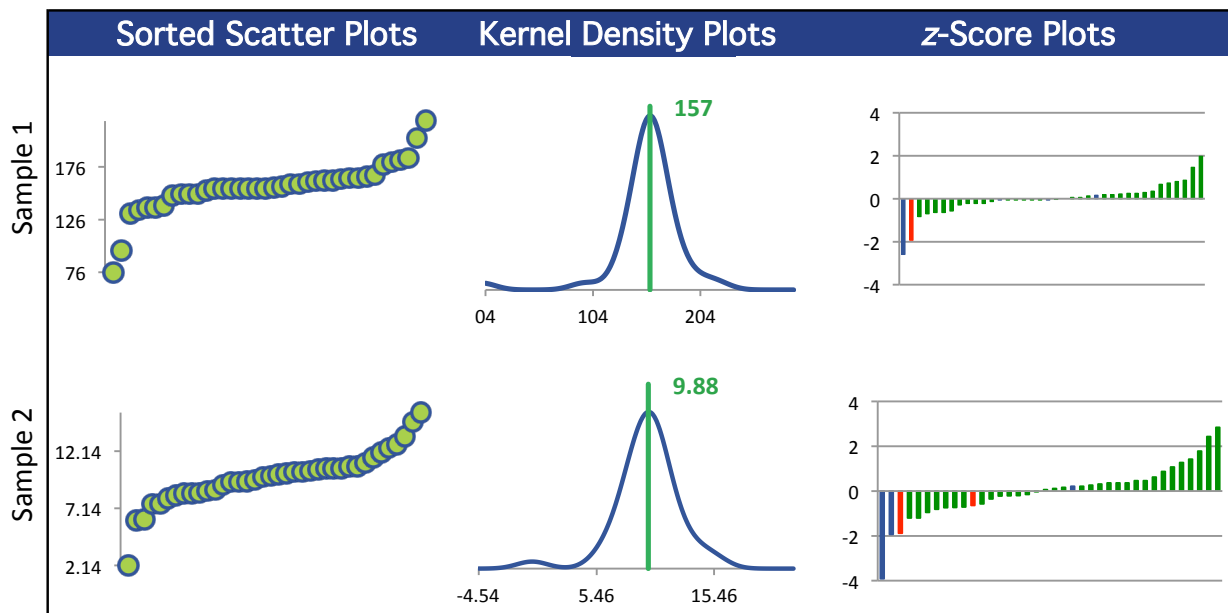
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	38	38	38	38
Median $\mu\text{g/g}$	156	10.1	68.7	108
Robust Mean $\mu\text{g/g}$	157	9.88	69.8	108
U $\mu\text{g/g}$	3.26	0.385	1.69	1.91
Robust Standard Deviation $\mu\text{g/g}$	16.1	1.90	8.34	9.44
Regression Standard Deviation $\mu\text{g/g}$	31.4	1.98	14.0	21.5
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) $\mu\text{g/g}$	31.4	1.98	14.0	21.5
Outliers	0	0	0	0
$ z > 3.0$	0	1	0	0
$2 < z < 3$	1	2	2	1

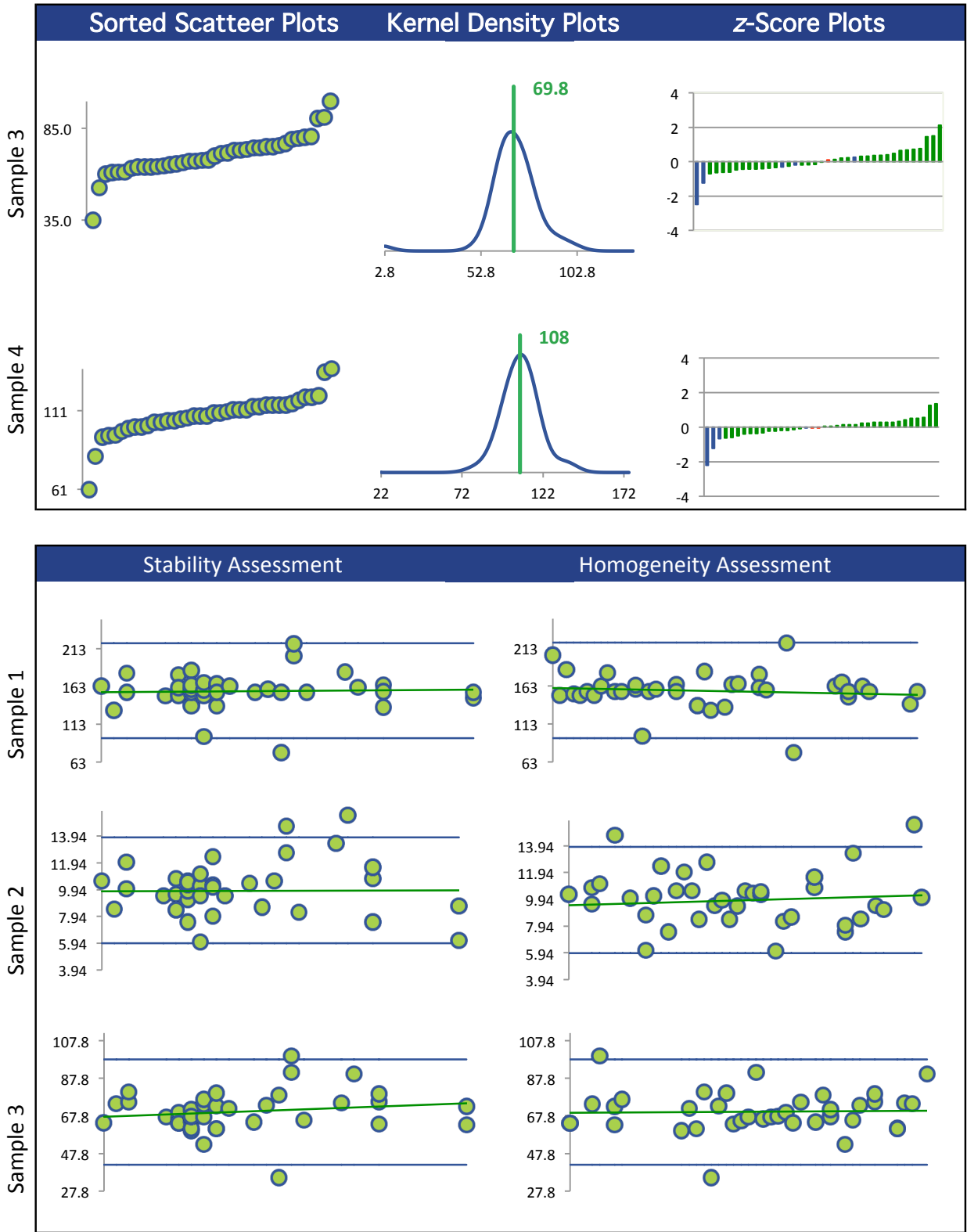
Methods Used

Method	C36-1	C36-2	C36-3	C36-4
GC/MS - PURGE AND TRAP (Blue)	17	17	17	17
GC/MS - HEADSPACE (Red)	17	17	17	17
GC/MS (Green)	4	4	4	4

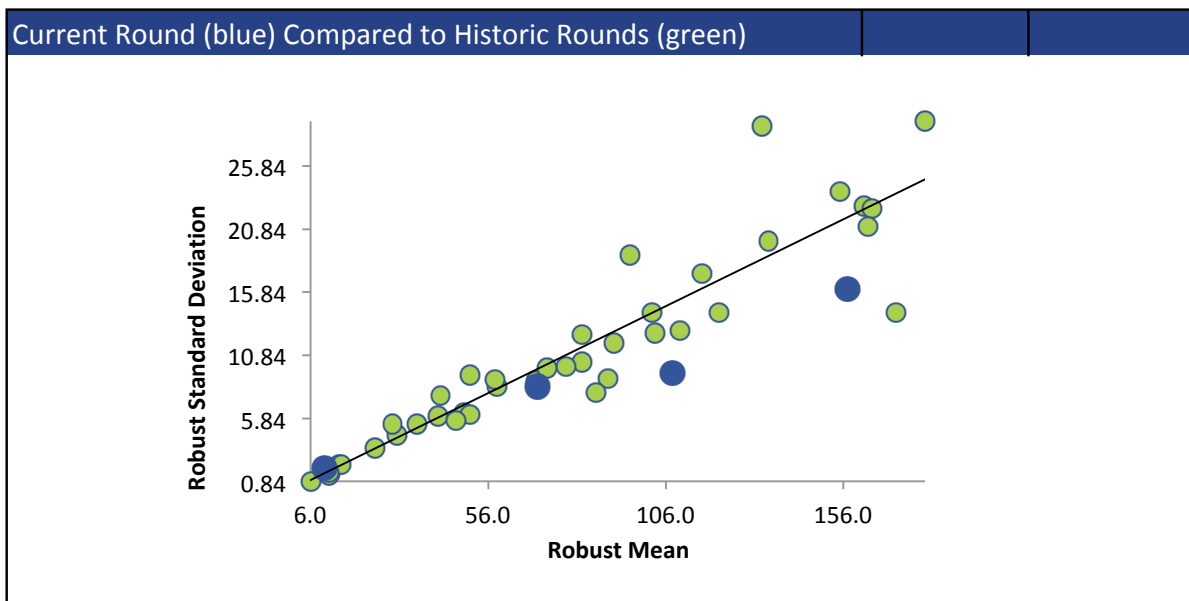
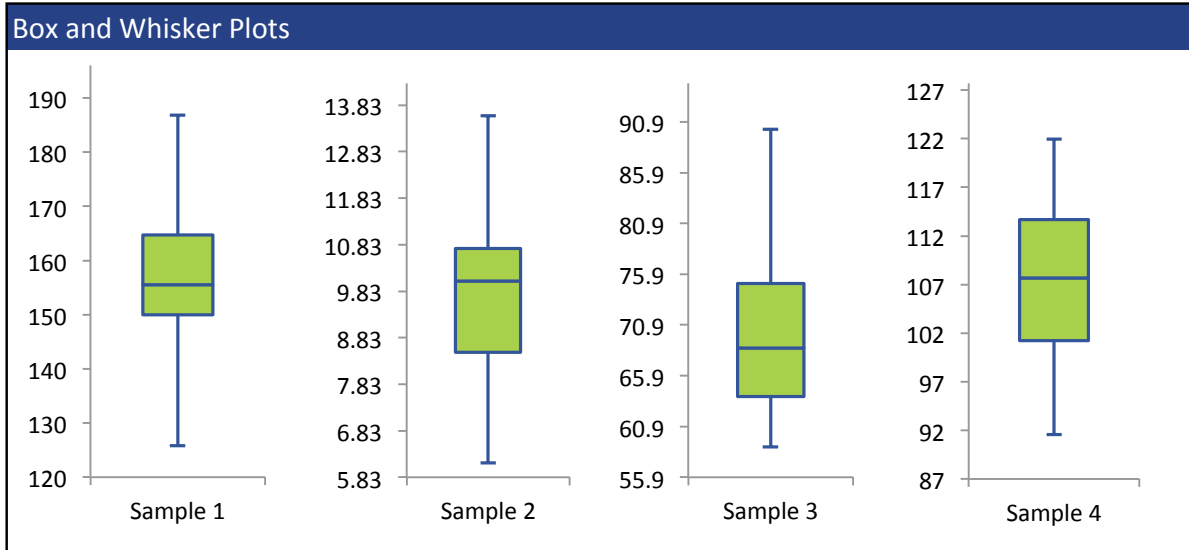
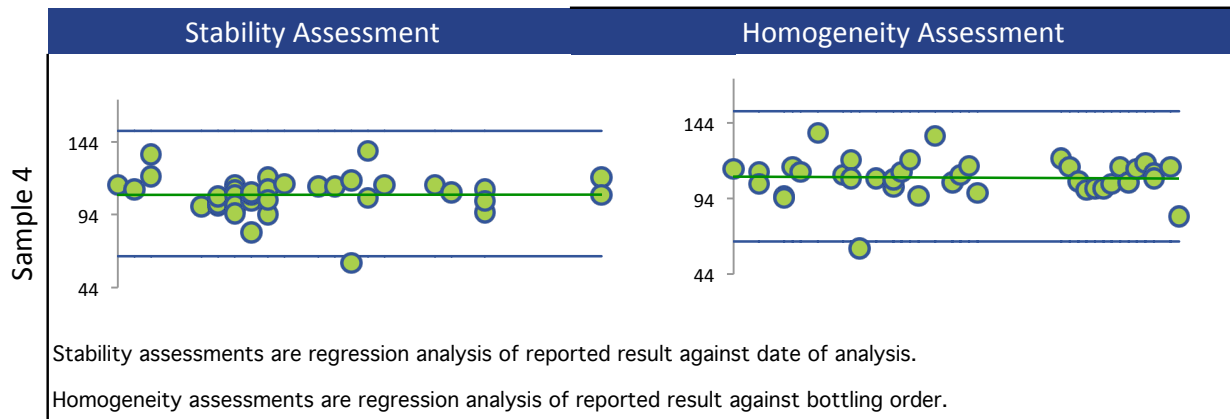
All summary stats and the plots below are based on the data excluding any flagged outliers



DICHLOROMETHANE



DICHLOROMETHANE



ETHYLBENZENE

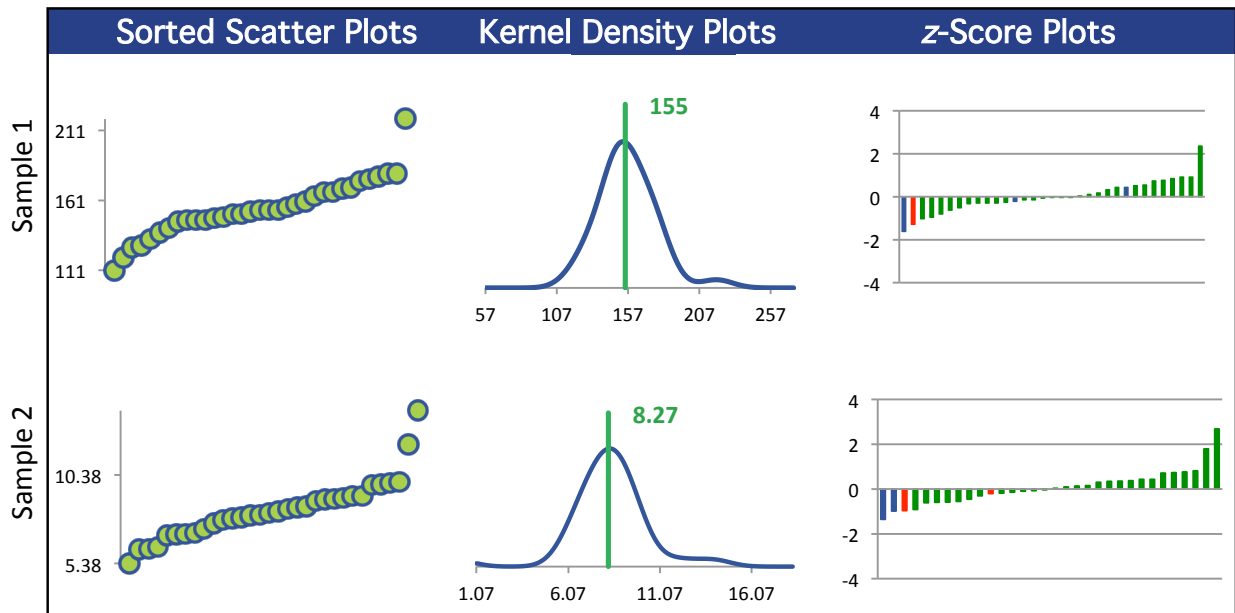
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	33	32	33	33
Median $\mu\text{g/g}$	154	8.27	66.9	103
Robust Mean $\mu\text{g/g}$	155	8.27	66.7	104
U $\mu\text{g/g}$	4.05	0.314	1.73	2.94
Robust Standard Deviation $\mu\text{g/g}$	18.6	1.42	7.94	13.5
Regression Standard Deviation $\mu\text{g/g}$	27.1	1.45	11.7	18.1
Stability Flag				
Homogeneity Flag		Homogeneity		
Standard Deviation Used (SDPA) $\mu\text{g/g}$	27.1	2.14	11.7	18.1
Outliers	0	0	0	0
$ z > 3.0$	0	0	1	0
$2 < z < 3$	1	1	1	0

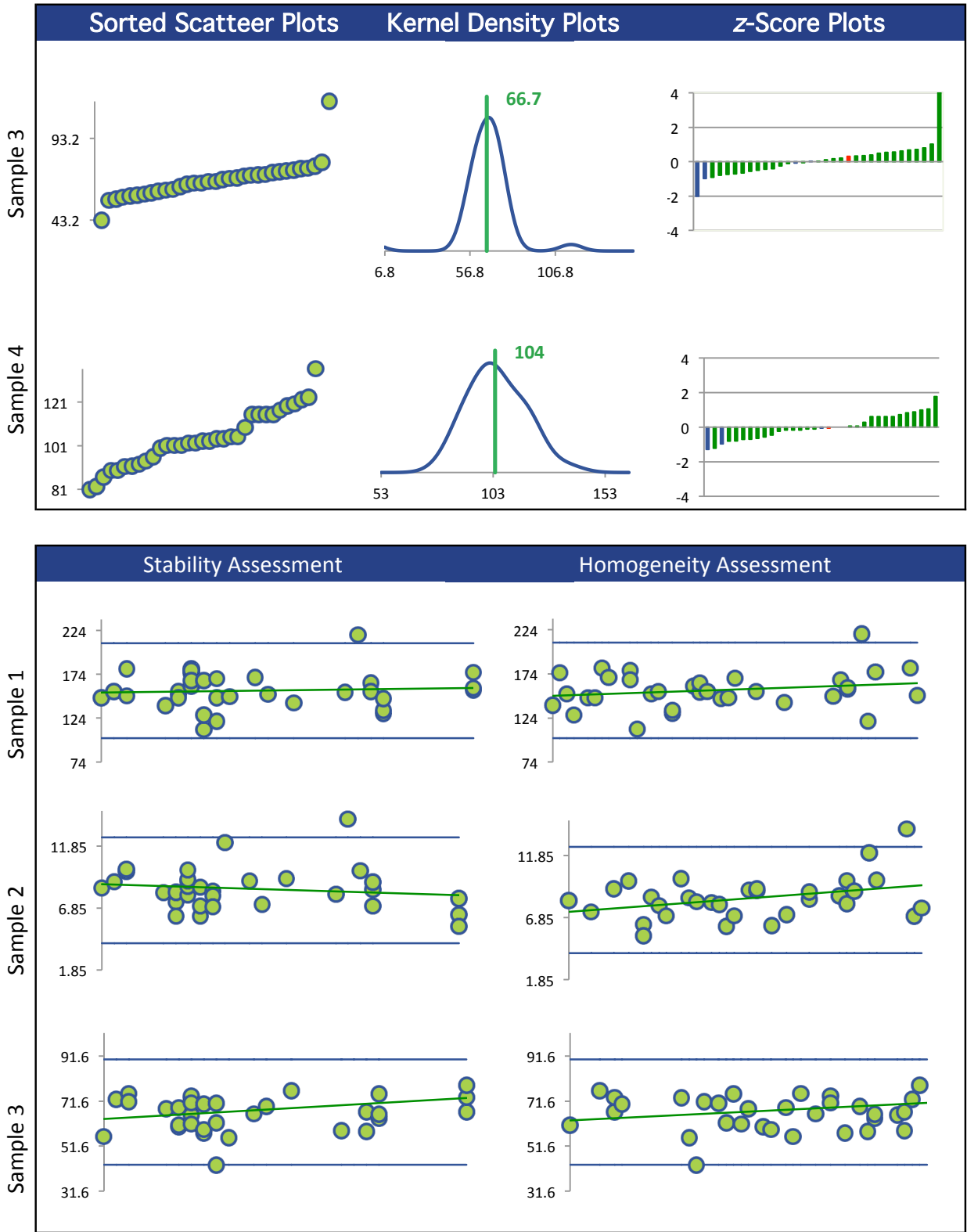
Methods Used

Method	C36-1	C36-2	C36-3	C36-4
GC/MS - HEADSPACE (Blue)	13	13	13	13
GC/MS - PURGE AND TRAP (Red)	15	15	15	15
GC/MS (Green)	5	4	5	5

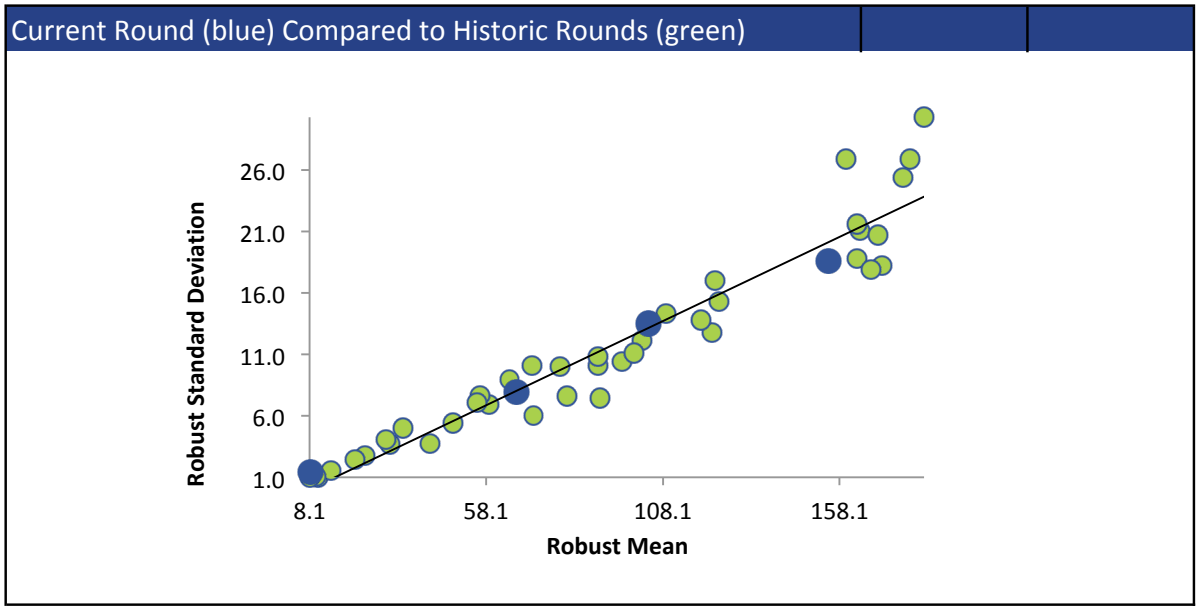
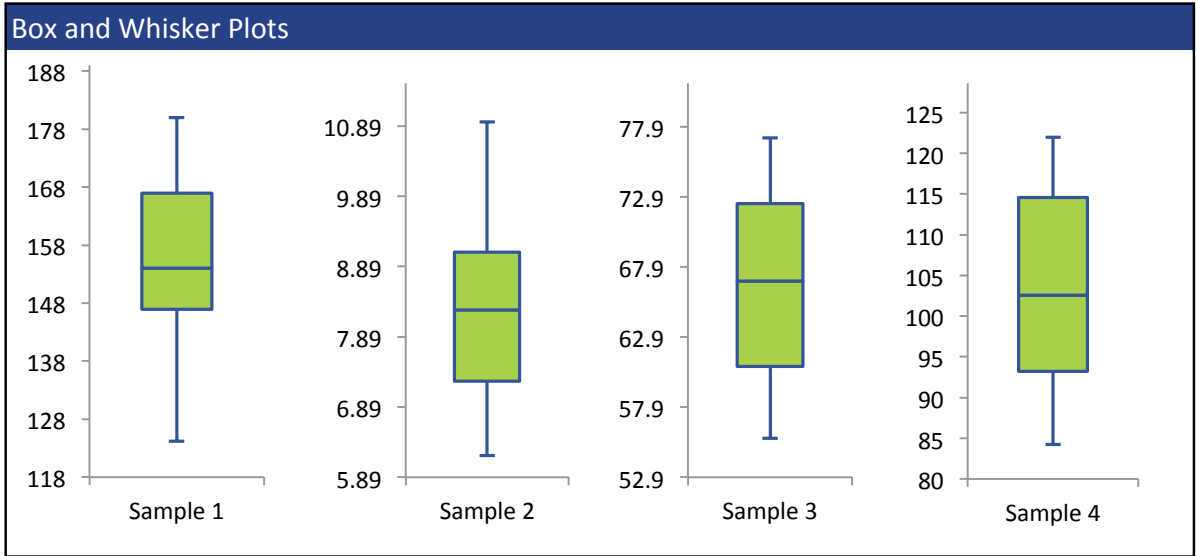
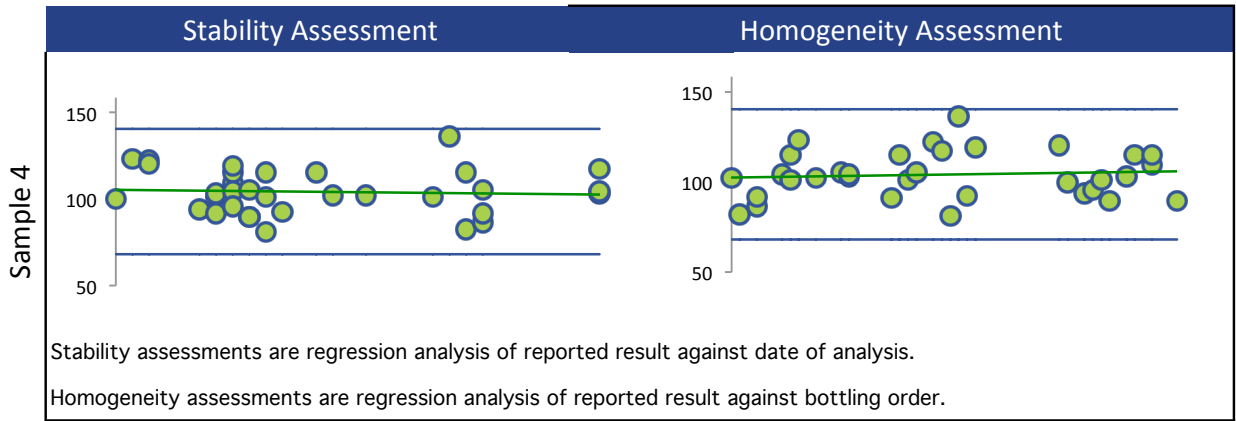
All summary stats and the plots below are based on the data excluding any flagged outliers



ETHYLBENZENE



ETHYLBENZENE



ETHYLENE DIBROMIDE

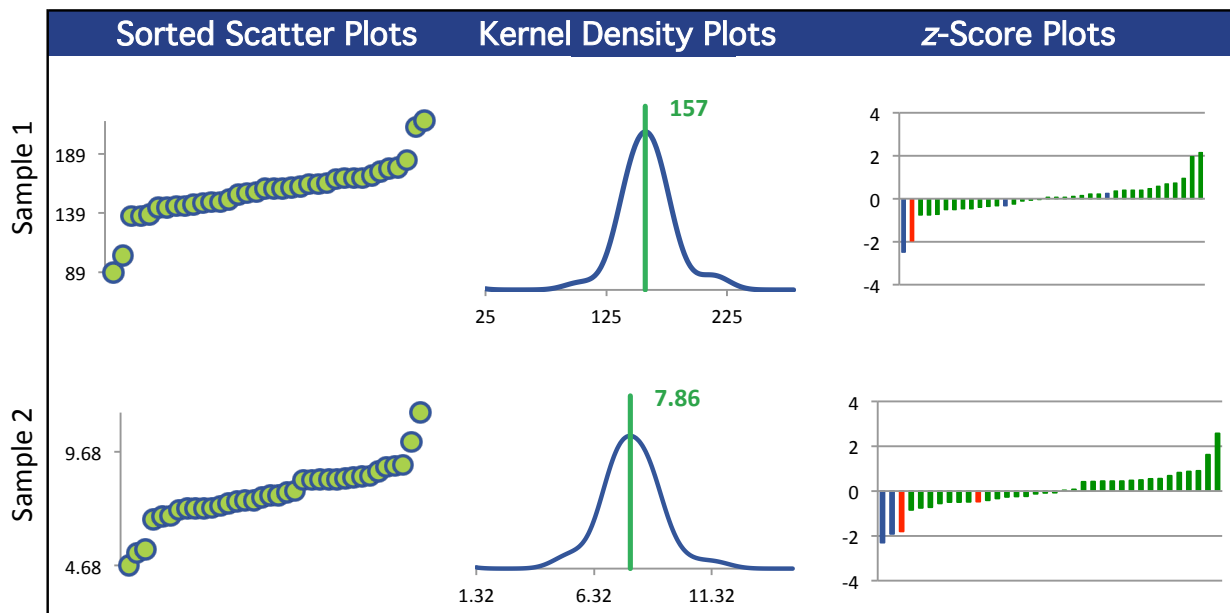
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	36	36	36	36
Median $\mu\text{g/g}$	159	7.76	66.7	105
Robust Mean $\mu\text{g/g}$	157	7.86	67.4	104
U $\mu\text{g/g}$	3.40	0.206	1.78	2.50
Robust Standard Deviation $\mu\text{g/g}$	16.3	0.989	8.53	12.0
Regression Standard Deviation $\mu\text{g/g}$	27.5	1.38	11.8	18.2
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) $\mu\text{g/g}$	27.5	1.38	11.8	18.2
Outliers	0	0	0	0
$ z > 3.0$	0	0	0	0
$2 < z < 3$	2	2	1	1

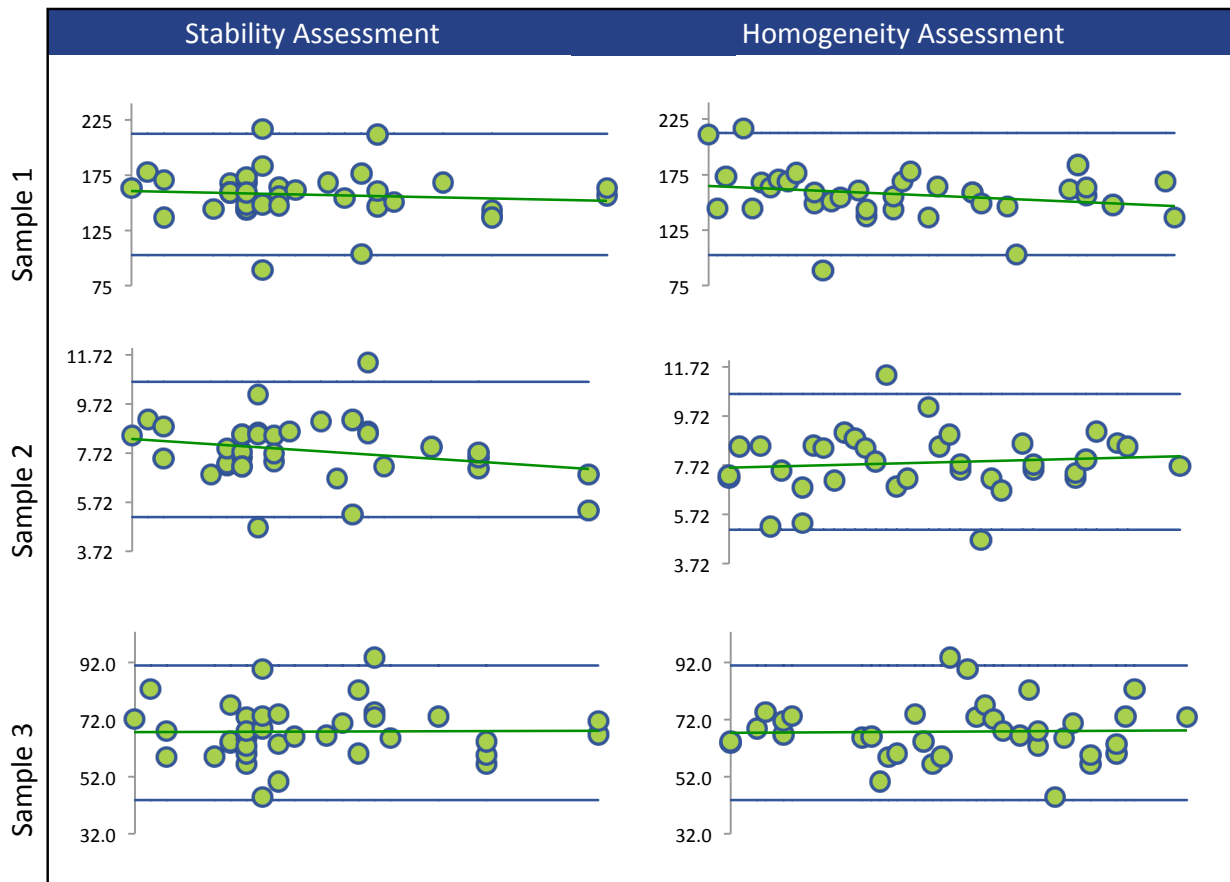
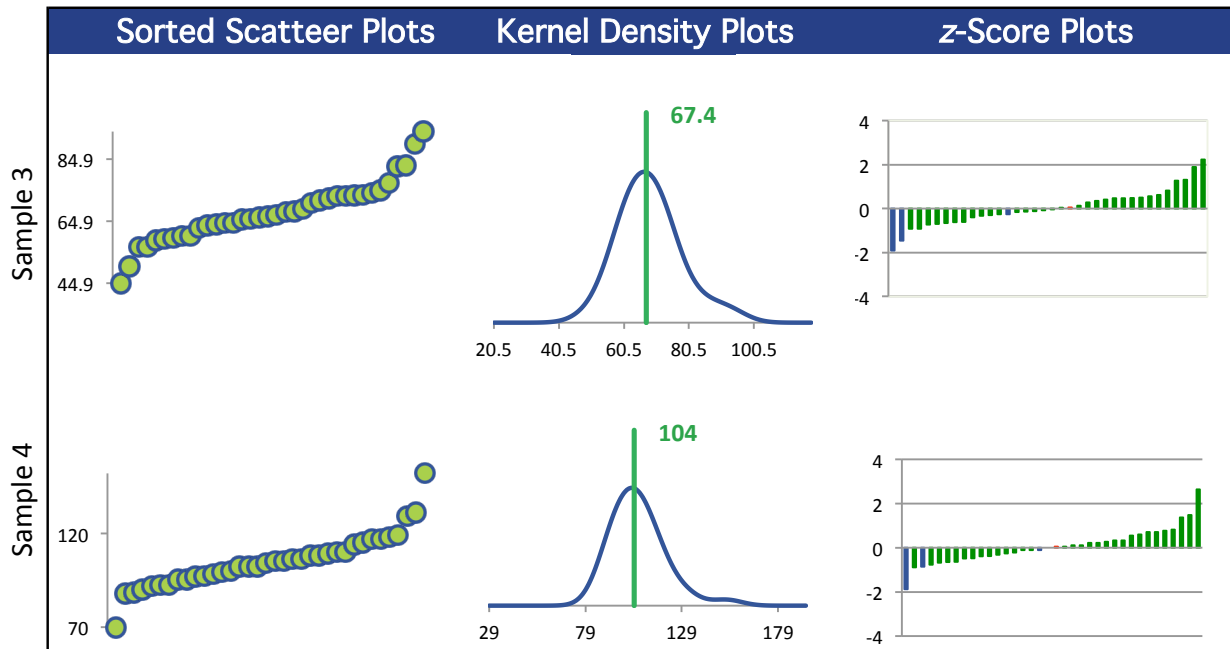
Methods Used

Method	C36-1	C36-2	C36-3	C36-4
GC/MS - HEADSPACE (Blue)	14	14	14	14
GC/MS - PURGE AND TRAP (Red)	18	18	18	18
GC/MS (Green)	4	4	4	4

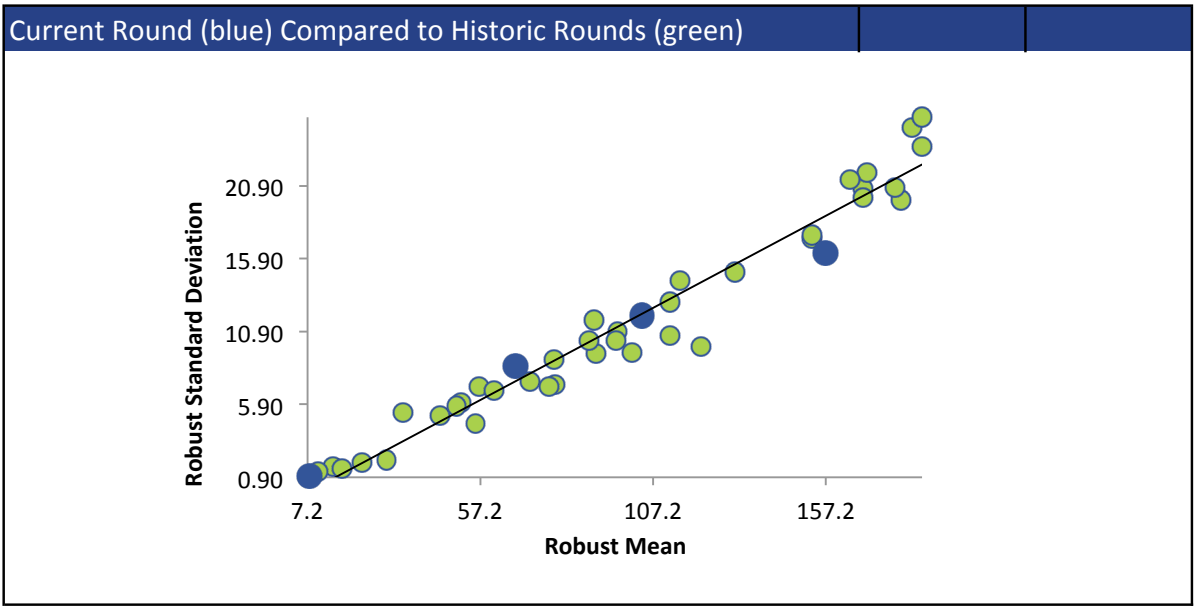
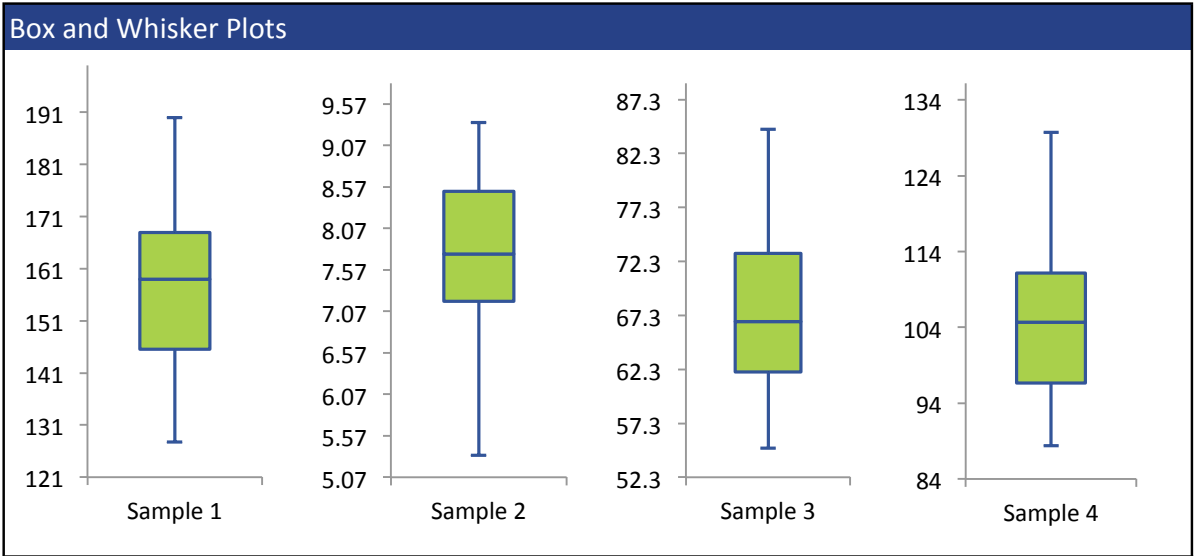
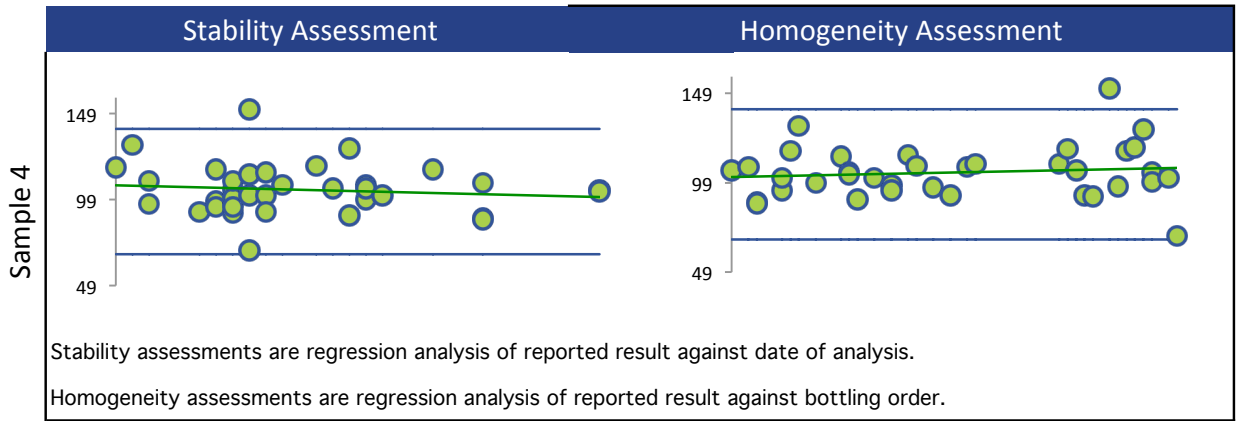
All summary stats and the plots below are based on the data excluding any flagged outliers



ETHYLENE DIBROMIDE



ETHYLENE DIBROMIDE



M,P-XYLENE

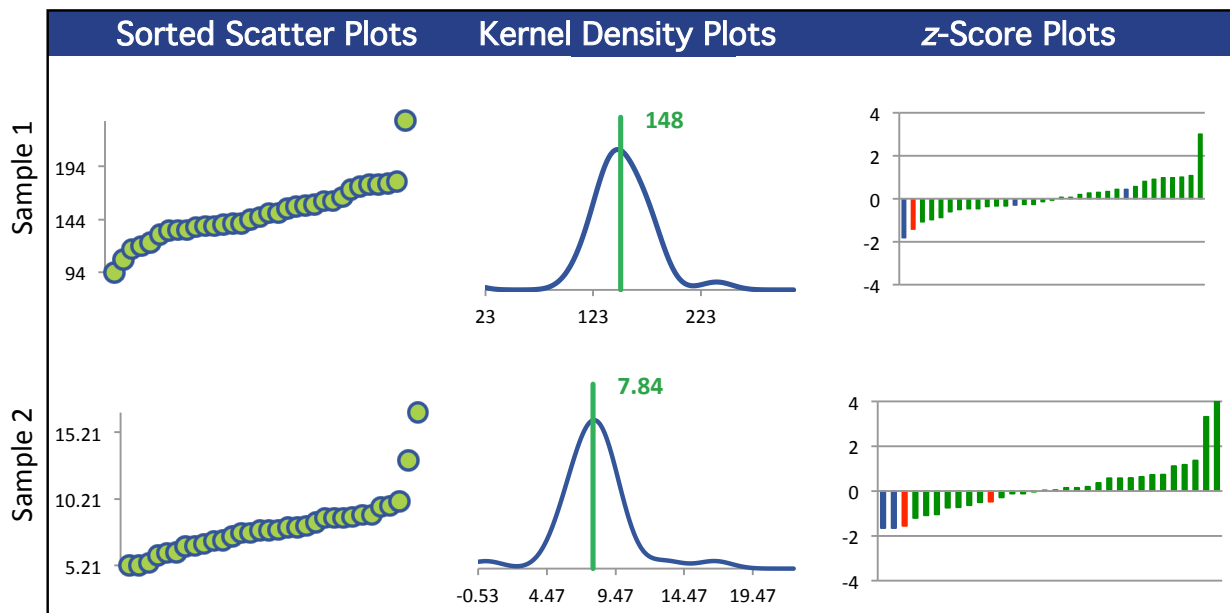
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	33	32	33	33
Median $\mu\text{g/g}$	146	7.88	64.6	96.9
Robust Mean $\mu\text{g/g}$	148	7.84	64.0	100
U $\mu\text{g/g}$	5.07	0.351	2.03	3.57
Robust Standard Deviation $\mu\text{g/g}$	23.3	1.59	9.32	16.4
Regression Standard Deviation $\mu\text{g/g}$	29.6	1.57	12.8	20.0
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) $\mu\text{g/g}$	29.6	1.59	12.8	20.0
Outliers	0	0	0	0
$ z > 3.0$	1	2	1	0
$2 < z < 3$	0	0	1	1

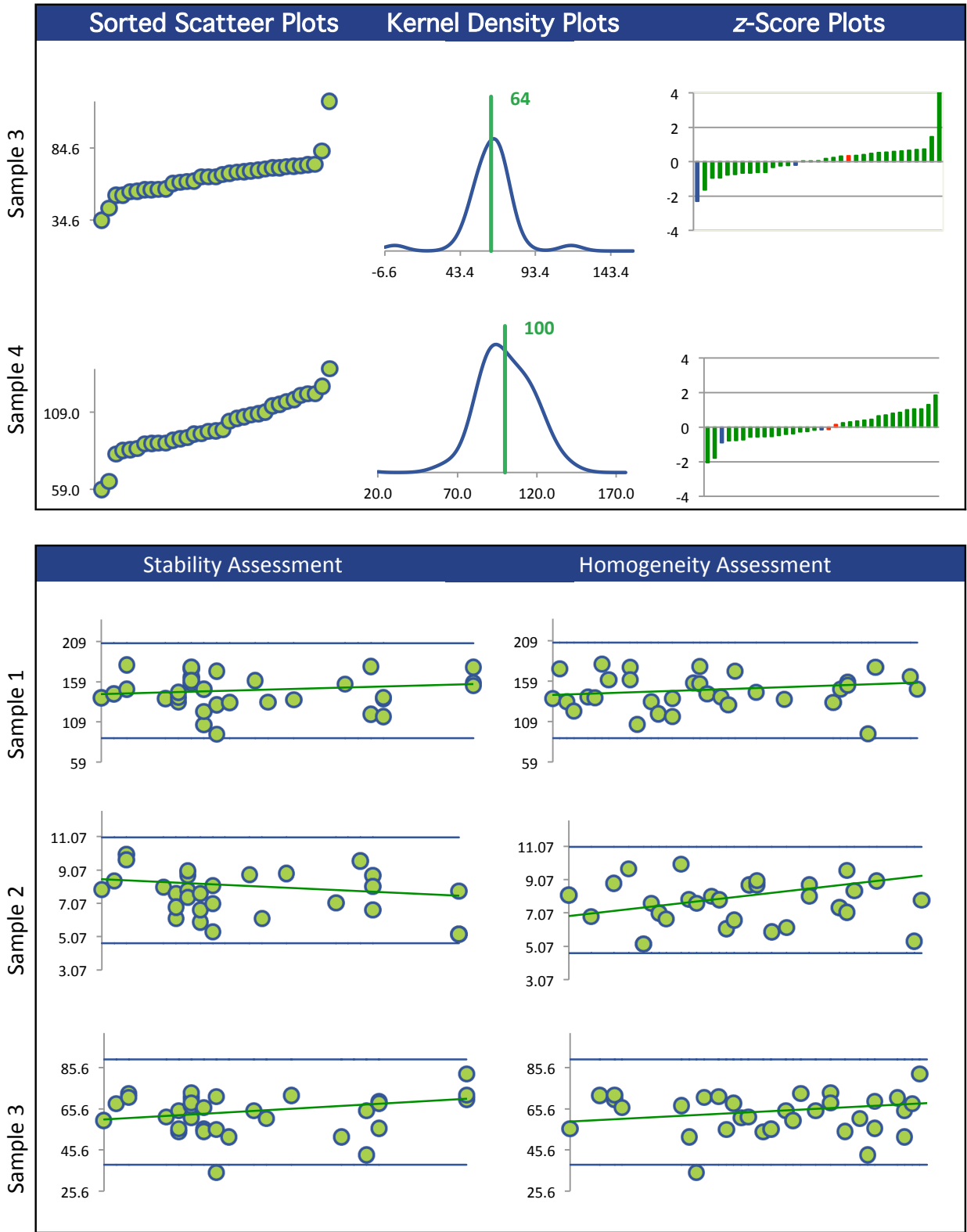
Methods Used

Method	C36-1	C36-2	C36-3	C36-4
GC/MS - PURGE AND TRAP (Blue)	15	15	15	15
GC/MS - HEADSPACE (Red)	13	13	13	13
GC/MS (Green)	5	4	5	5

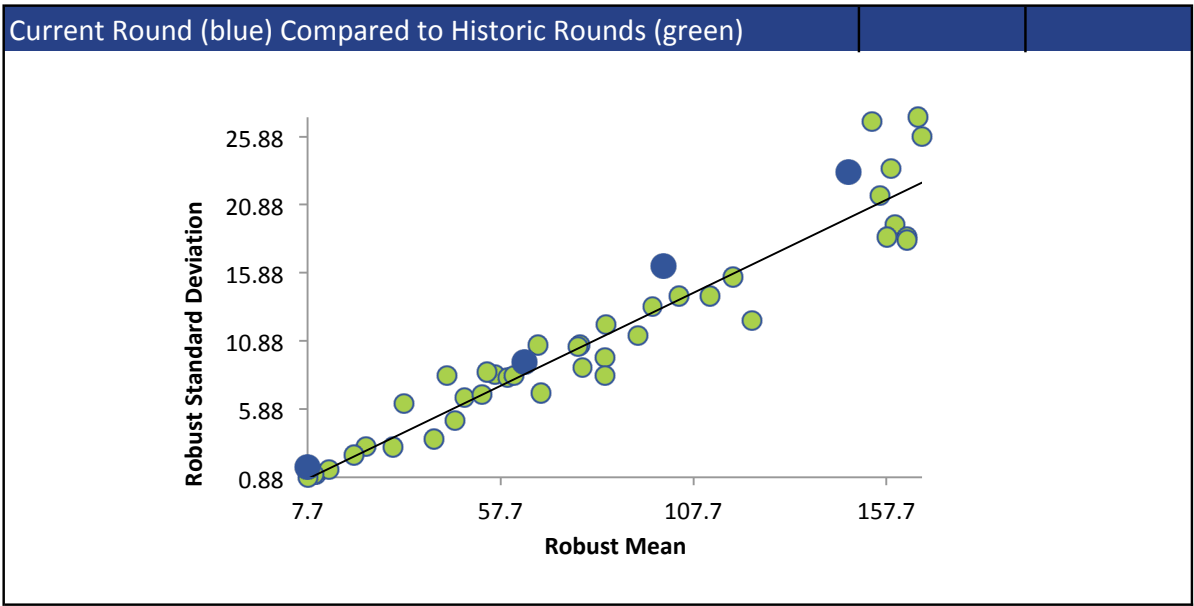
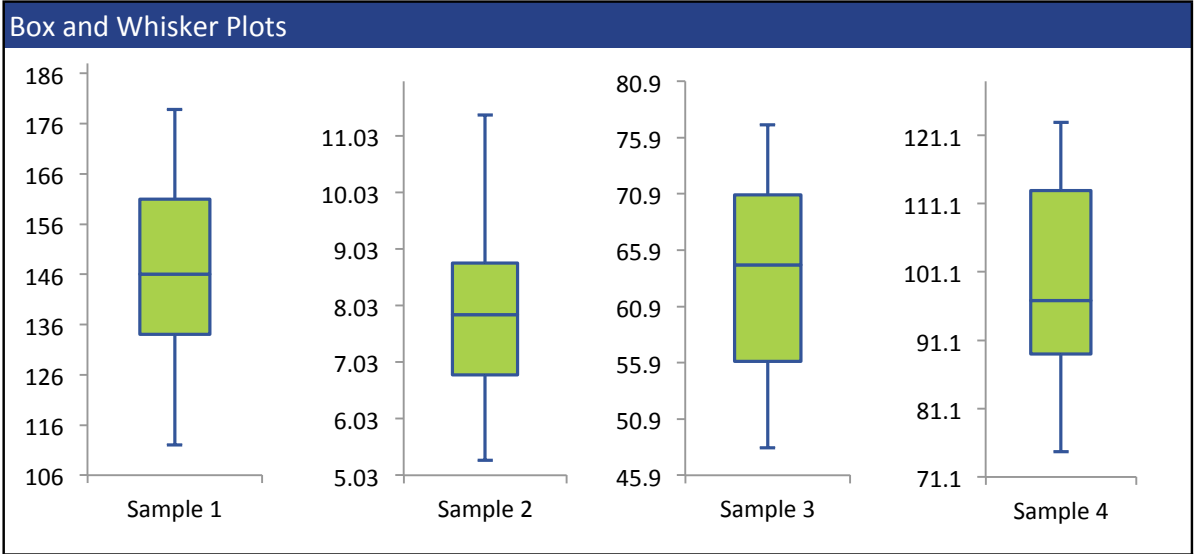
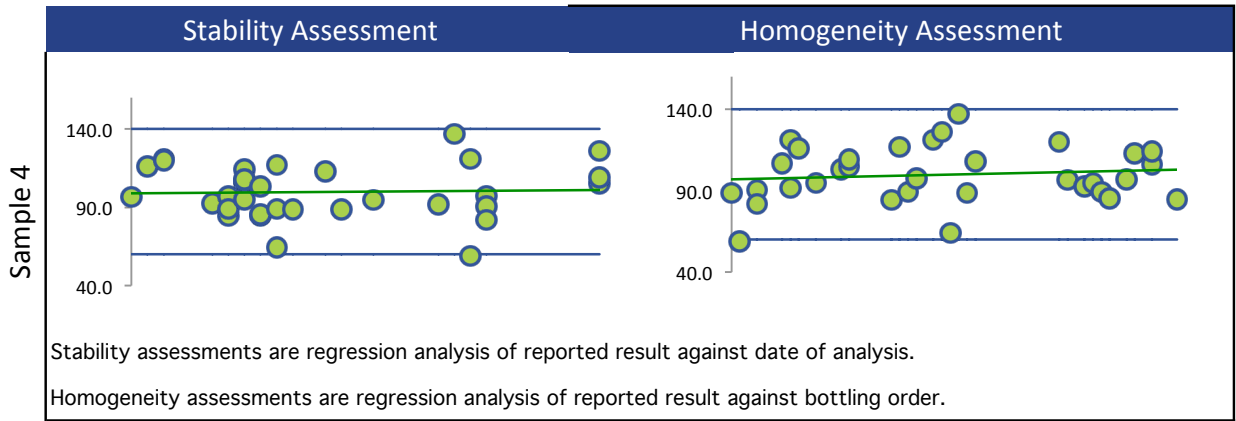
All summary stats and the plots below are based on the data excluding any flagged outliers



M,P-XYLENE



M,P-XYLENE



METHYL ETHYL KETONE

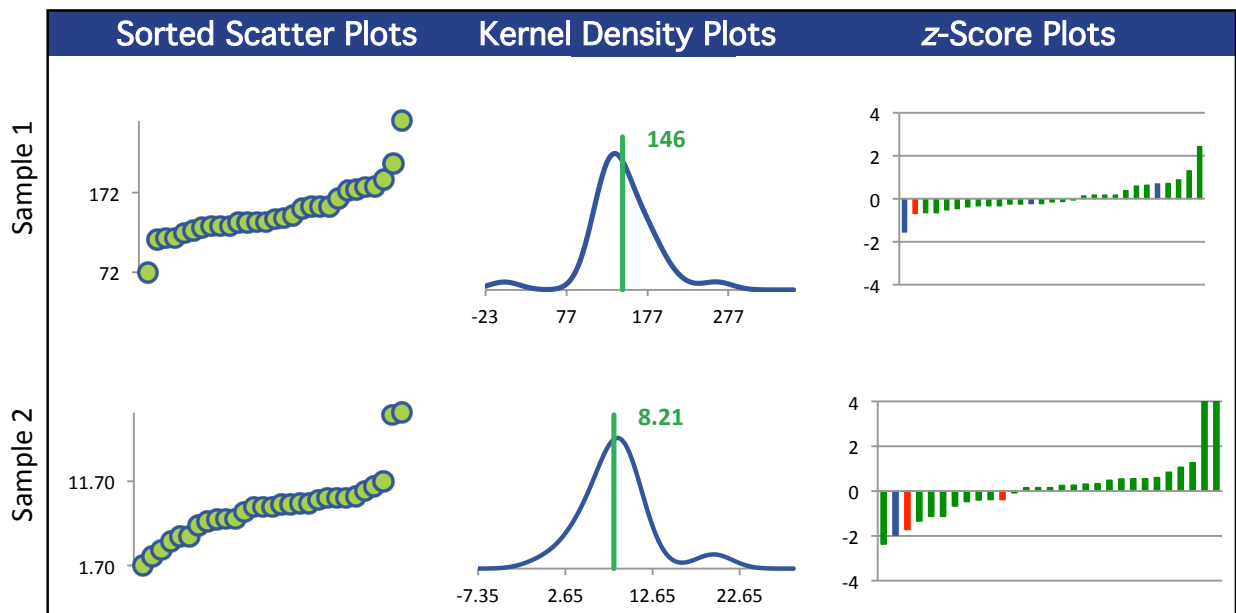
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	29	29	30	29
Median $\mu\text{g/g}$	139	8.61	60.8	93.7
Robust Mean $\mu\text{g/g}$	146	8.21	63.0	99.8
U $\mu\text{g/g}$	6.57	0.641	3.13	4.34
Robust Standard Deviation $\mu\text{g/g}$	28.3	2.76	13.7	18.7
Regression Standard Deviation $\mu\text{g/g}$	40.0	2.26	17.3	27.4
Stability Flag				
Homogeneity Flag	Homogeneity			
Standard Deviation Used (SDPA) $\mu\text{g/g}$	47.8	2.76	17.3	27.4
Outliers	1	0	0	1
$ z > 3.0$	0	2	3	0
$2 < z < 3$	1	1	0	1

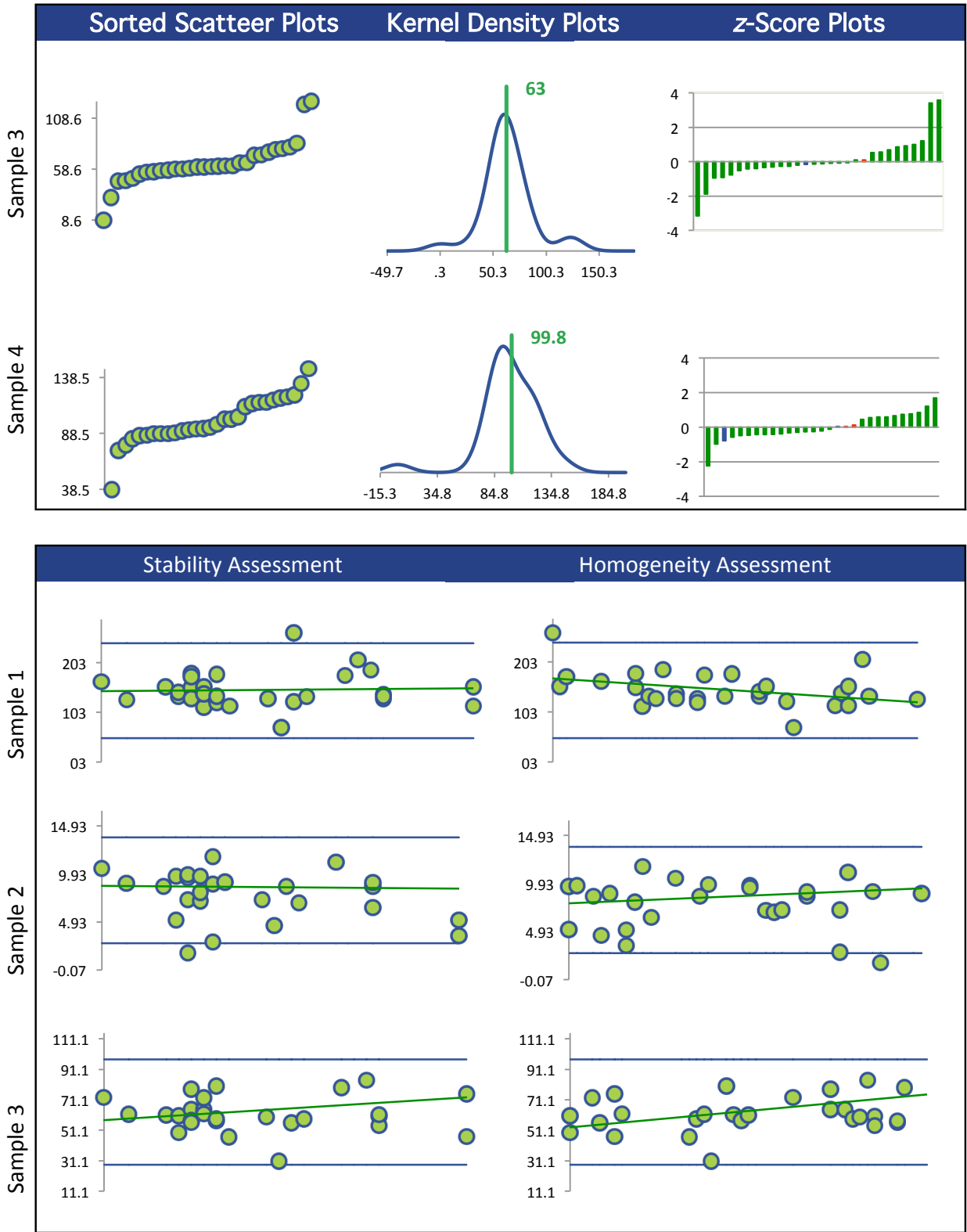
Methods Used

Method	C36-1	C36-2	C36-3	C36-4
GC/MS - PURGE AND TRAP (Blue)	16	16	16	16
GC/MS - HEADSPACE (Red)	11	11	11	11
GC/MS (Green)	2	2	3	2

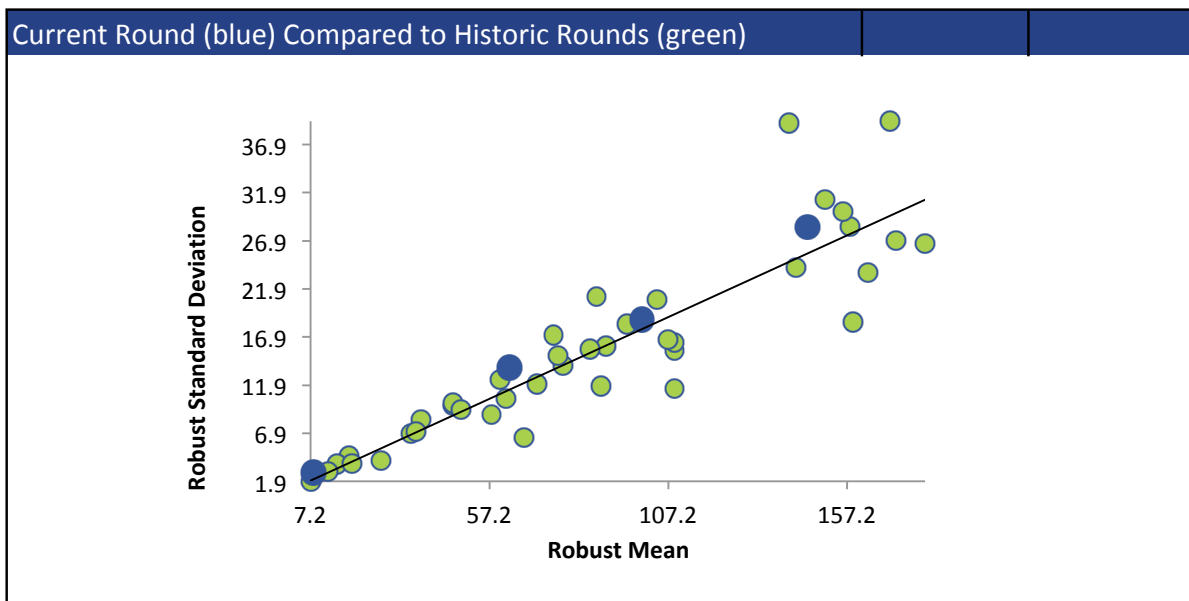
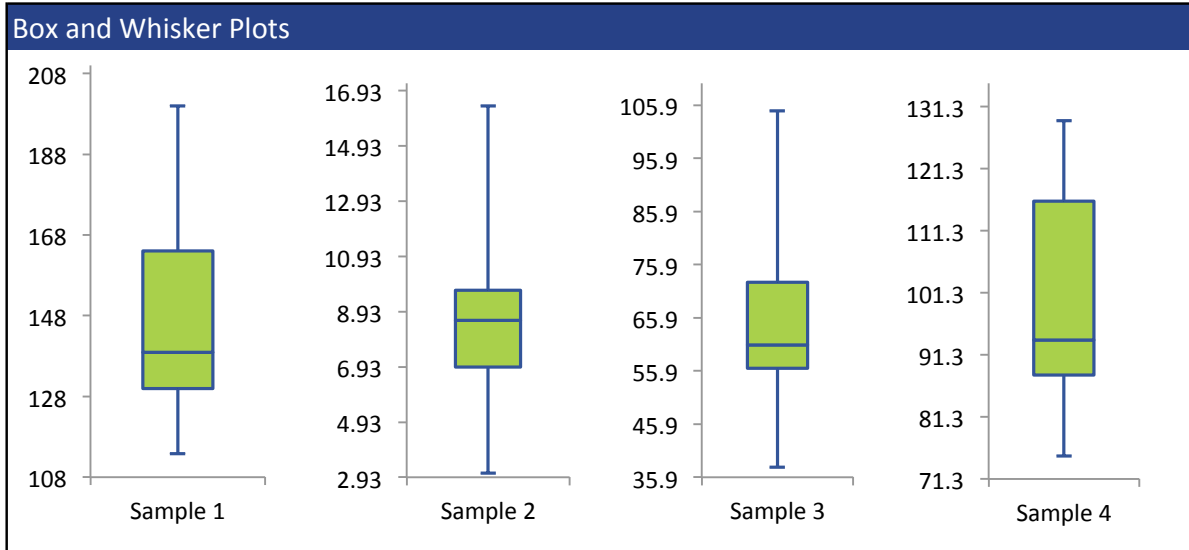
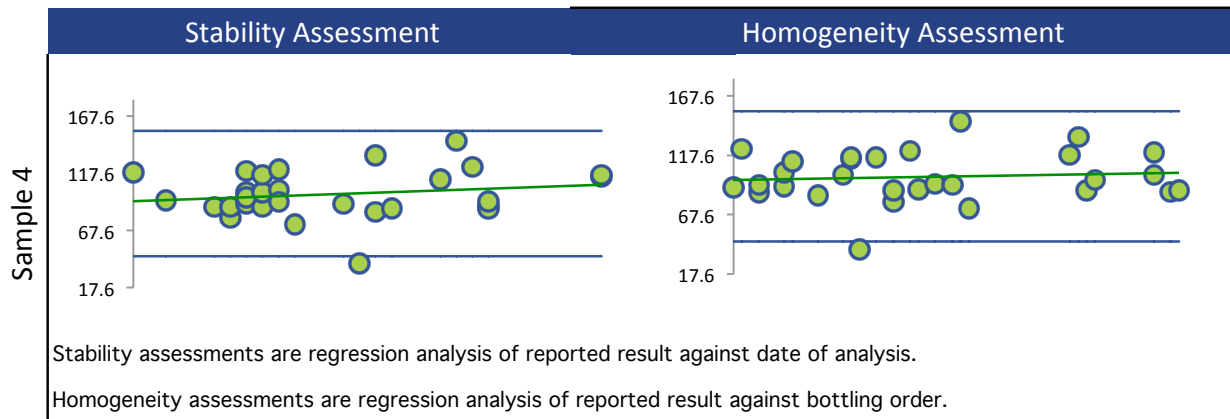
All summary stats and the plots below are based on the data excluding any flagged outliers



METHYL ETHYL KETONE



METHYL ETHYL KETONE



METHYL ISOBUTYL KETONE (MIBK)

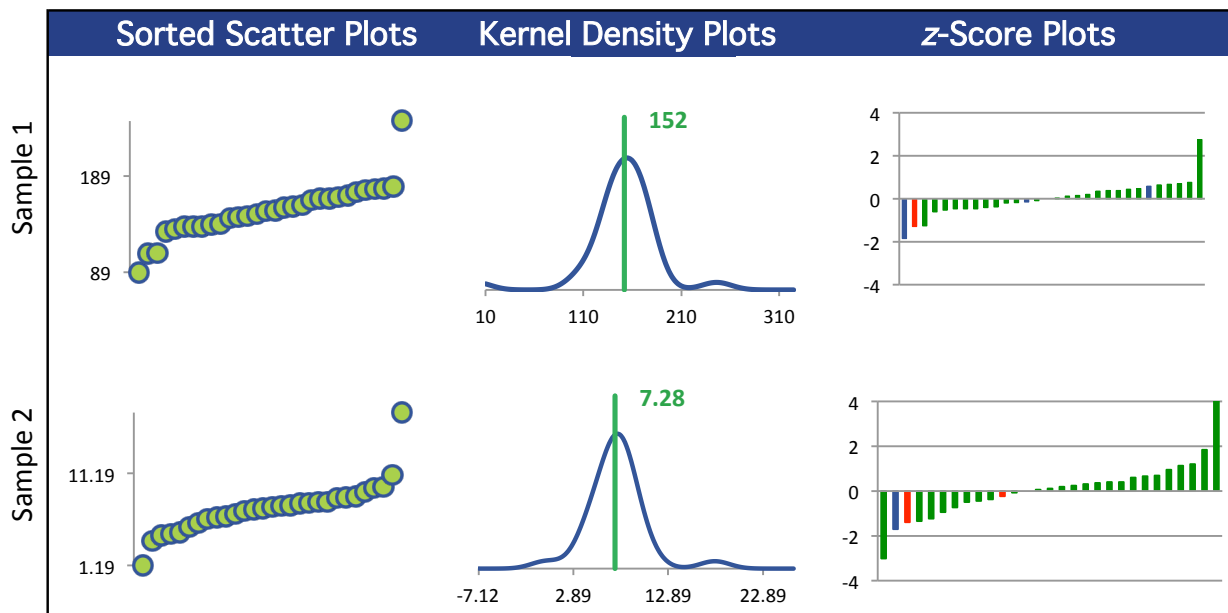
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	30	29	30	30
Median $\mu\text{g/g}$	153	7.50	62.5	96.9
Robust Mean $\mu\text{g/g}$	152	7.28	63.8	99.9
U $\mu\text{g/g}$	4.68	0.469	2.58	3.74
Robust Standard Deviation $\mu\text{g/g}$	20.5	2.02	11.3	16.4
Regression Standard Deviation $\mu\text{g/g}$	34.2	1.64	14.4	22.5
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) $\mu\text{g/g}$	34.2	2.02	14.4	22.5
Outliers	1	1	1	1
$ z > 3.0$	0	2	1	0
$2 < z < 3$	1	0	0	0

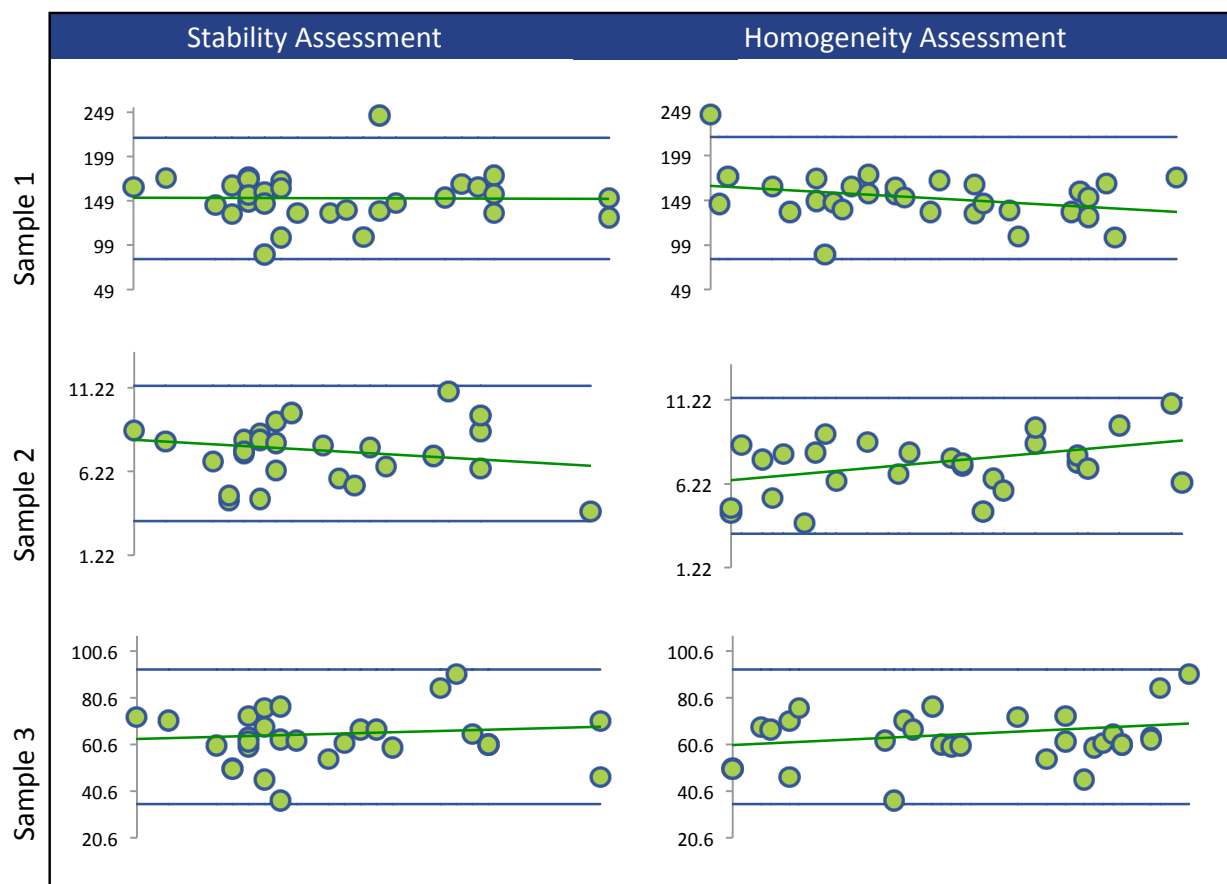
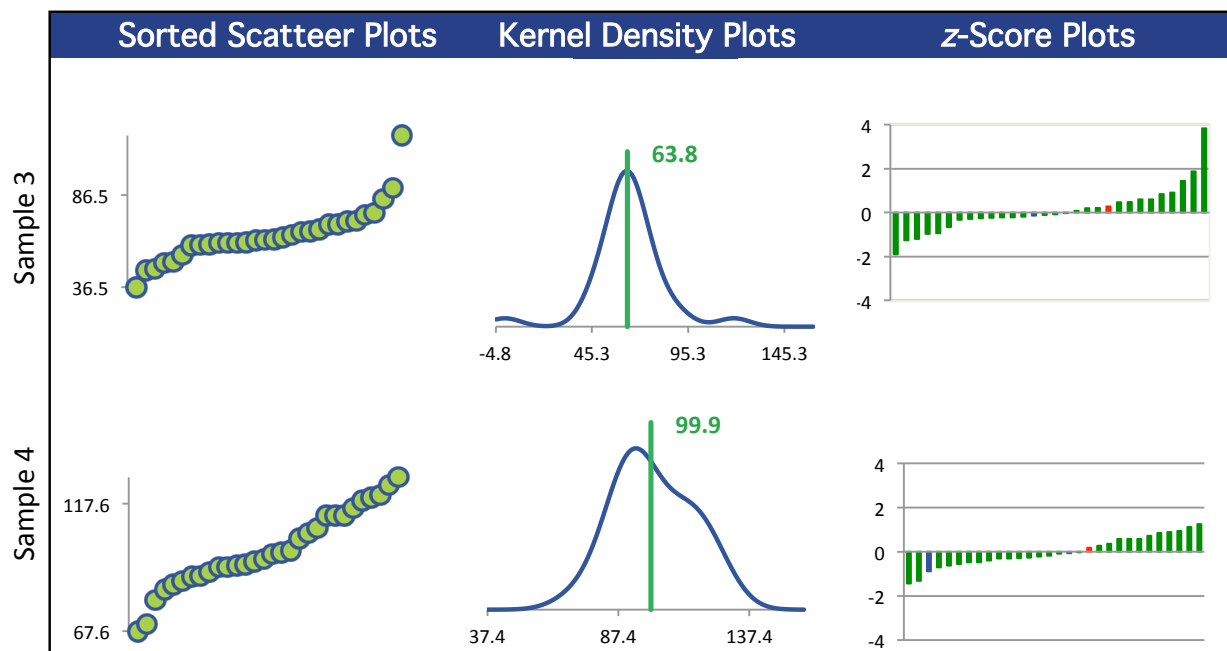
Methods Used

Method	C36-1	C36-2	C36-3	C36-4
GC/MS - HEADSPACE (Blue)	11	11	11	11
GC/MS - PURGE AND TRAP (Red)	17	17	17	17
GC/MS (Green)	2	1	2	2

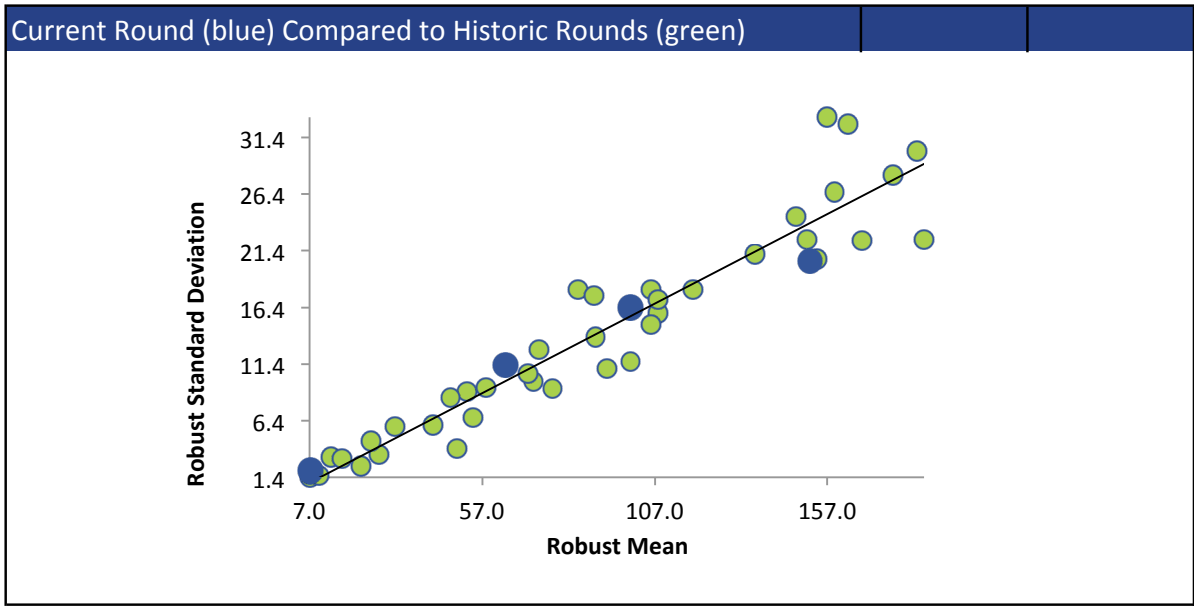
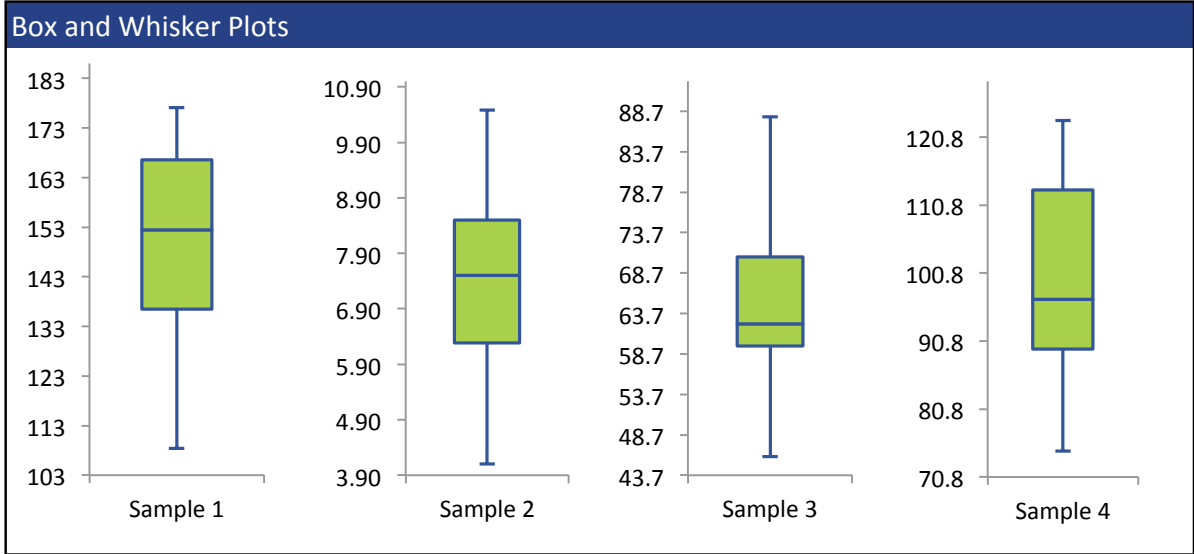
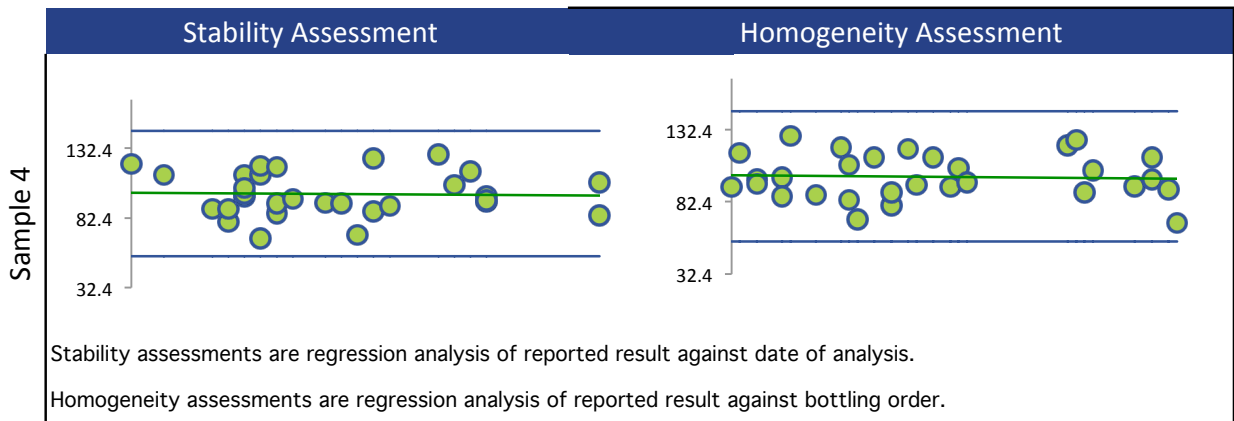
All summary stats and the plots below are based on the data excluding any flagged outliers



METHYL ISOBUTYL KETONE (MIBK)



METHYL ISOBUTYL KETONE (MIBK)



METHYL T-BUTYL ETHER

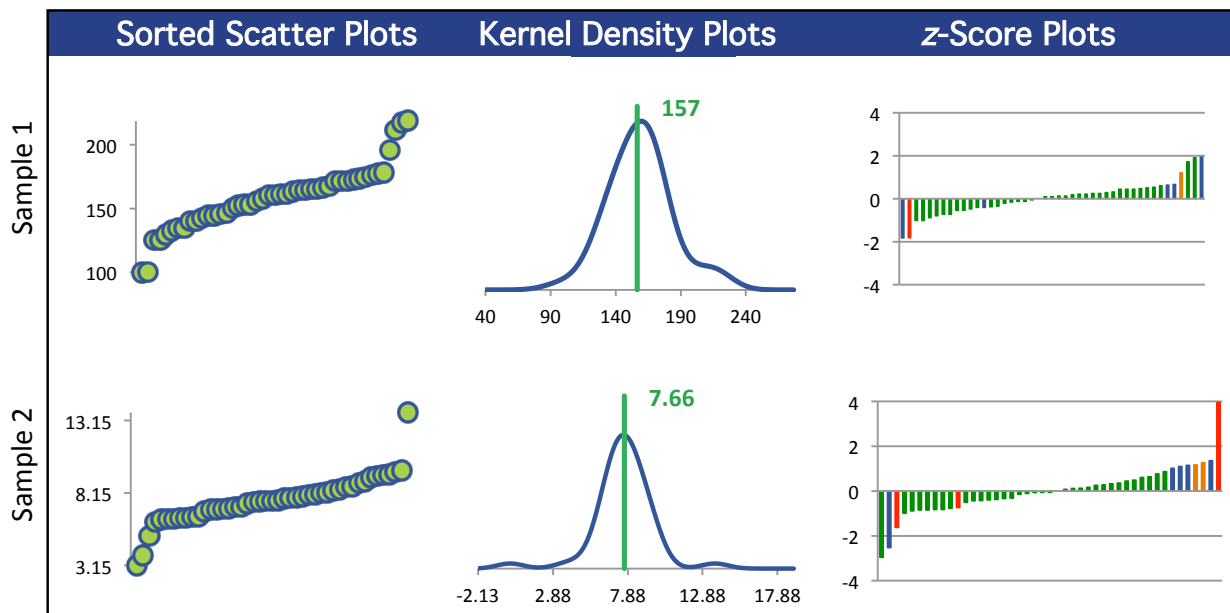
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	45	45	45	45
Median $\mu\text{g/g}$	160	7.59	67.0	105
Robust Mean $\mu\text{g/g}$	157	7.66	67.3	107
U $\mu\text{g/g}$	3.88	0.239	1.88	2.31
Robust Standard Deviation $\mu\text{g/g}$	20.8	1.28	10.1	12.4
Regression Standard Deviation $\mu\text{g/g}$	31.4	1.53	13.5	21.3
Stability Flag			Stability	
Homogeneity Flag				
Standard Deviation Used (SDPA) $\mu\text{g/g}$	31.4	1.53	15.2	21.3
Outliers	0	0	0	0
$ z > 3.0$	0	1	0	0
$2 < z < 3$	0	2	1	0

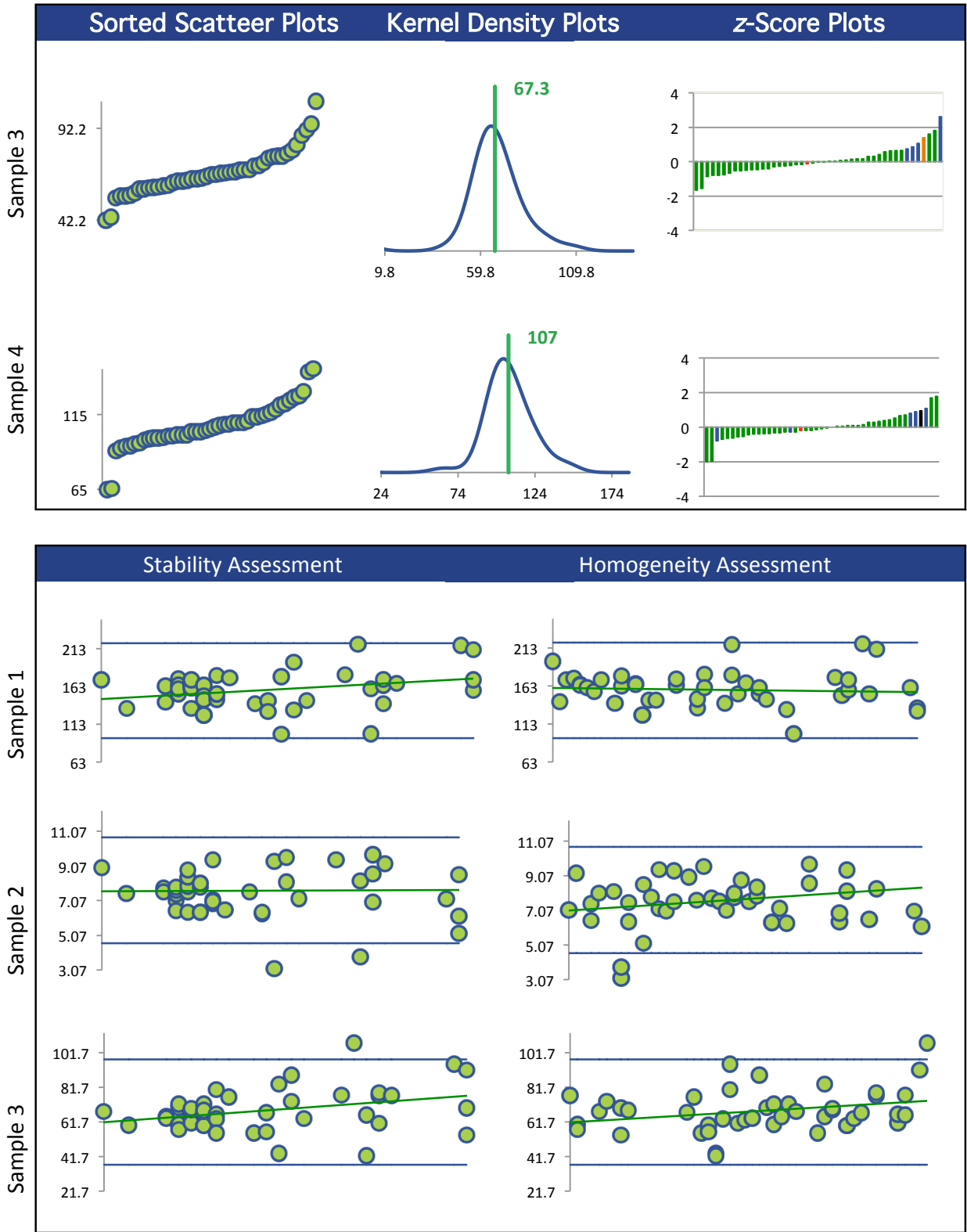
Methods Used

Method	C36-1	C36-2	C36-3	C36-4
GC/MS - PURGE AND TRAP (Blue)	19	19	19	19
GC/MS - HEADSPACE (Red)	21	21	21	21
GC/MS (Green)	5	5	5	5

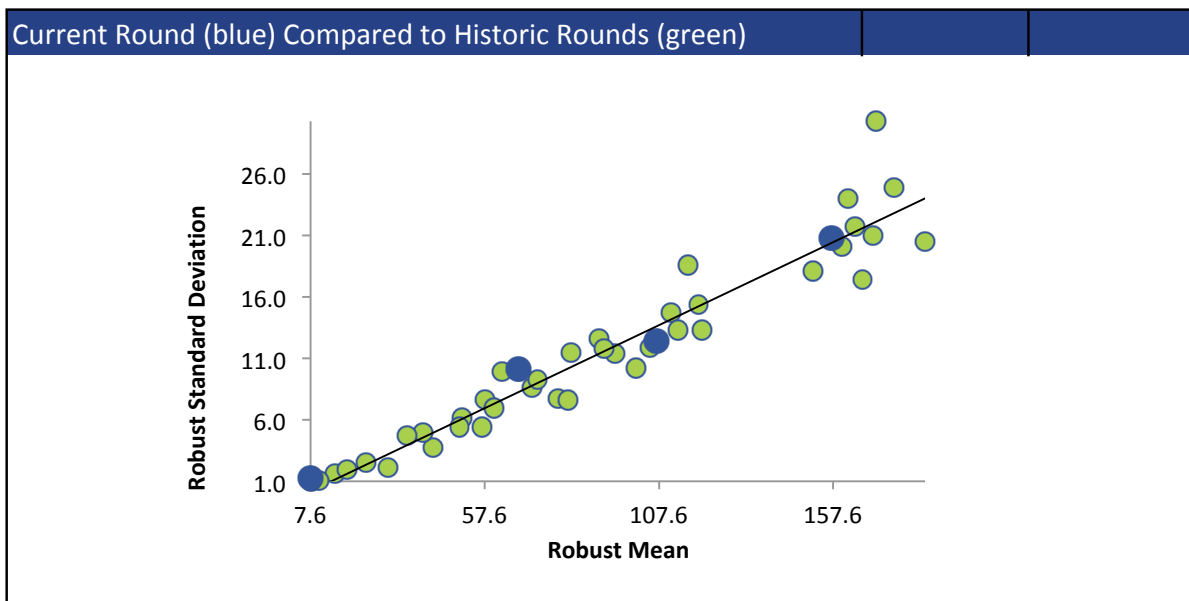
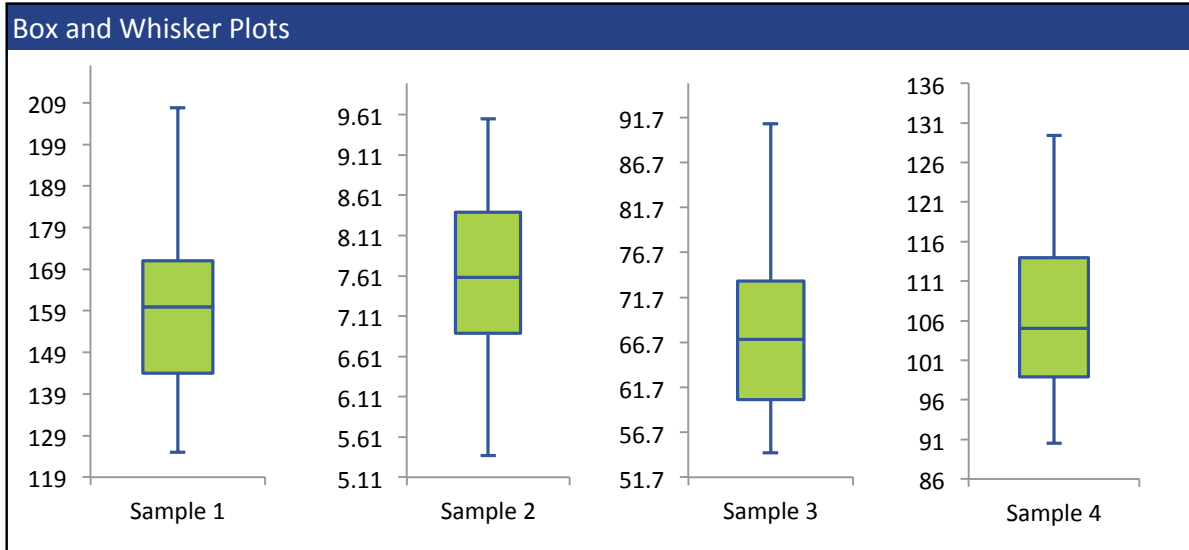
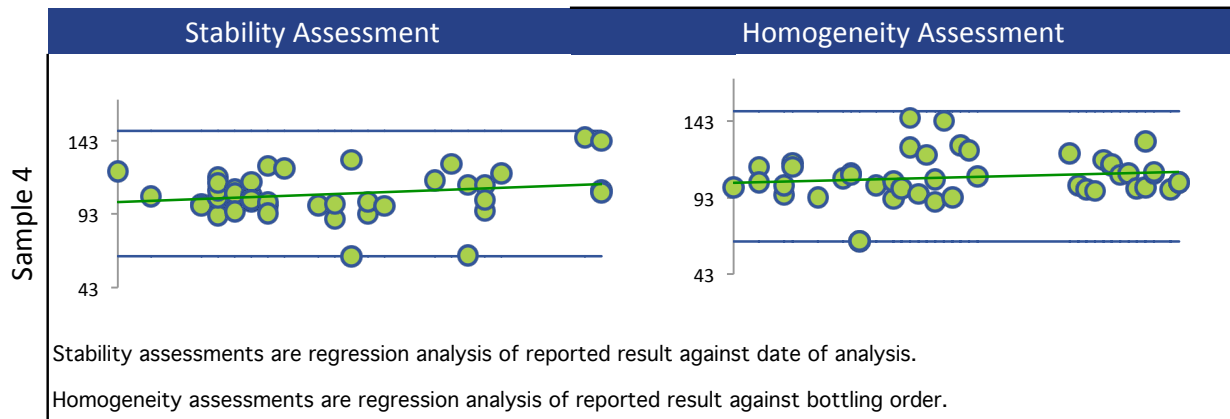
All summary stats and the plots below are based on the data excluding any flagged outliers



METHYL T-BUTYL ETHER



METHYL T-BUTYL ETHER



O-XYLENE

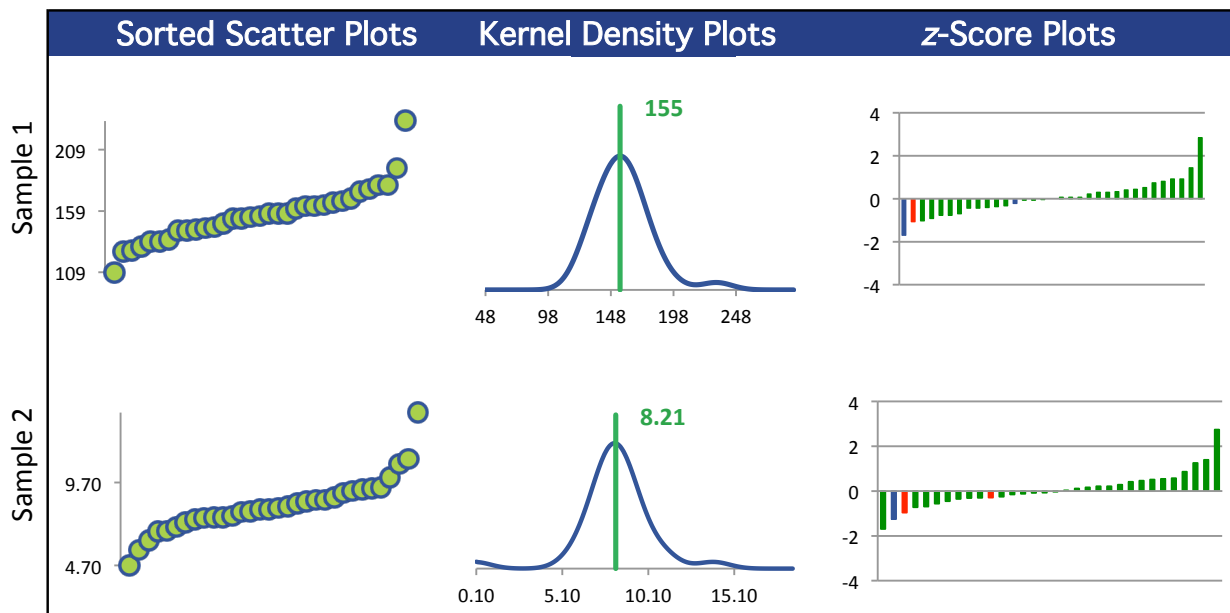
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	33	32	33	33
Median $\mu\text{g/g}$	155	8.12	66.8	103
Robust Mean $\mu\text{g/g}$	155	8.21	67.0	104
U $\mu\text{g/g}$	4.26	0.289	1.78	2.72
Robust Standard Deviation $\mu\text{g/g}$	19.6	1.31	8.17	12.5
Regression Standard Deviation $\mu\text{g/g}$	27.1	1.44	11.7	18.1
Stability Flag				
Homogeneity Flag		Homogeneity		
Standard Deviation Used (SDPA) $\mu\text{g/g}$	27.1	2.08	11.7	18.1
Outliers	0	0	0	0
$ z > 3.0$	0	0	1	0
$2 < z < 3$	1	1	0	0

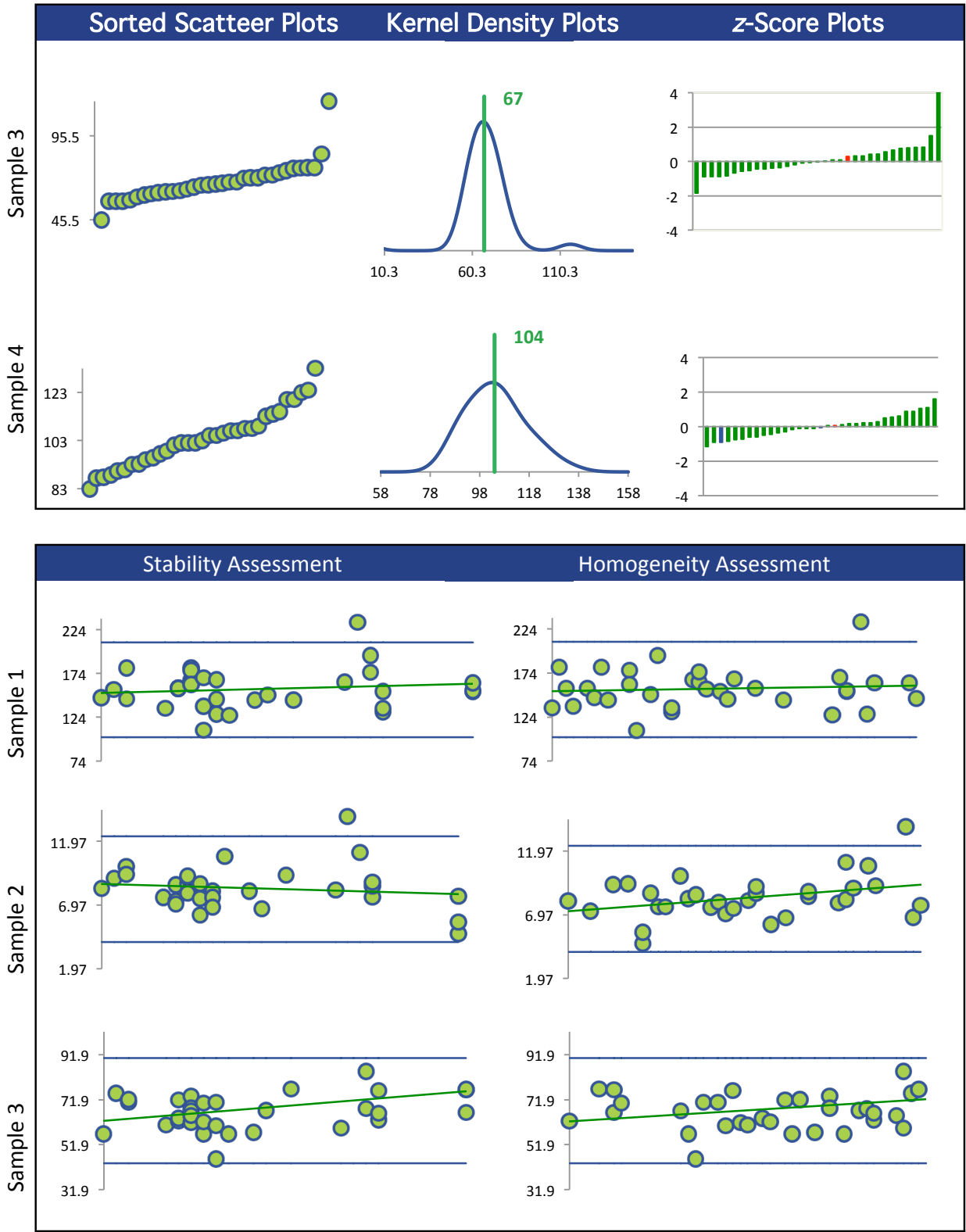
Methods Used

Method	C36-1	C36-2	C36-3	C36-4
GC/MS - HEADSPACE (Blue)	13	13	13	13
GC/MS - PURGE AND TRAP (Red)	15	15	15	15
GC/MS (Green)	5	4	5	5

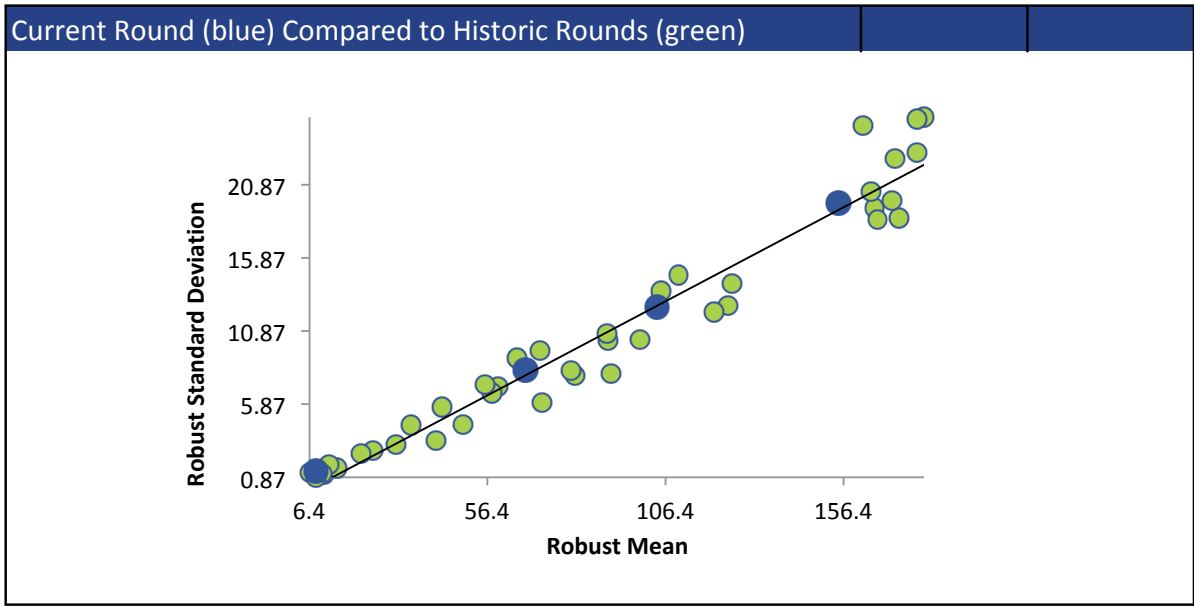
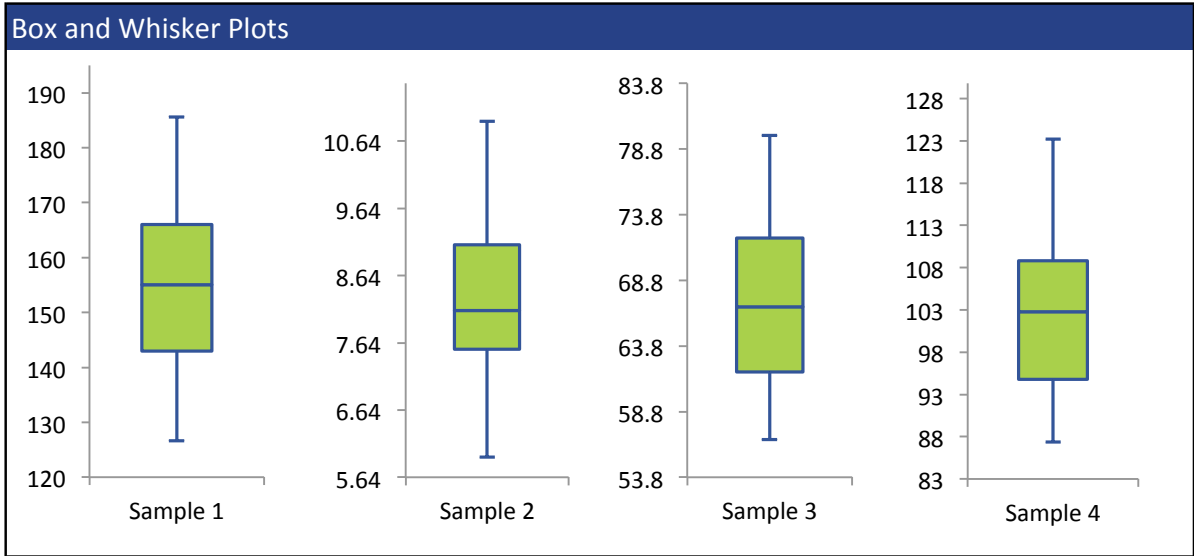
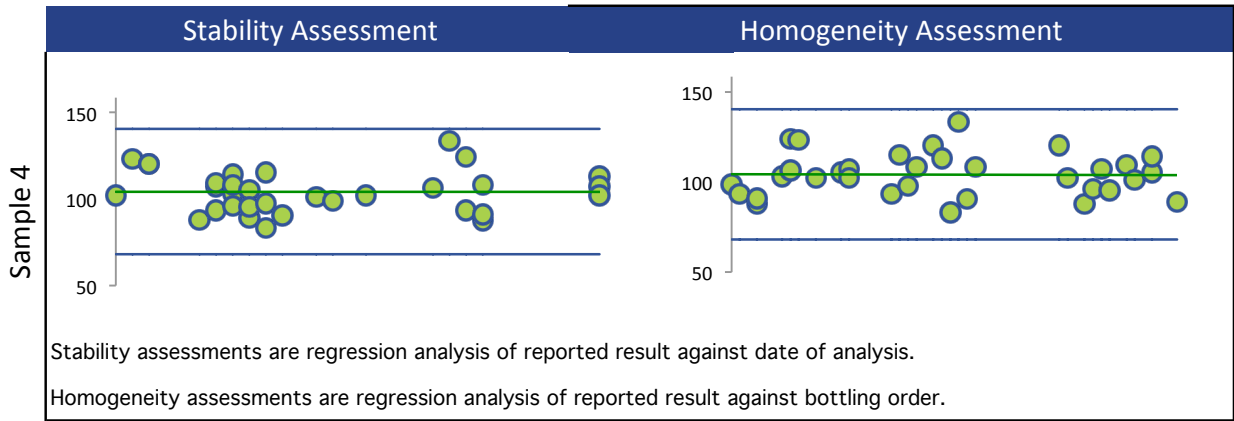
All summary stats and the plots below are based on the data excluding any flagged outliers



O-XYLENE



O-XYLENE



STYRENE

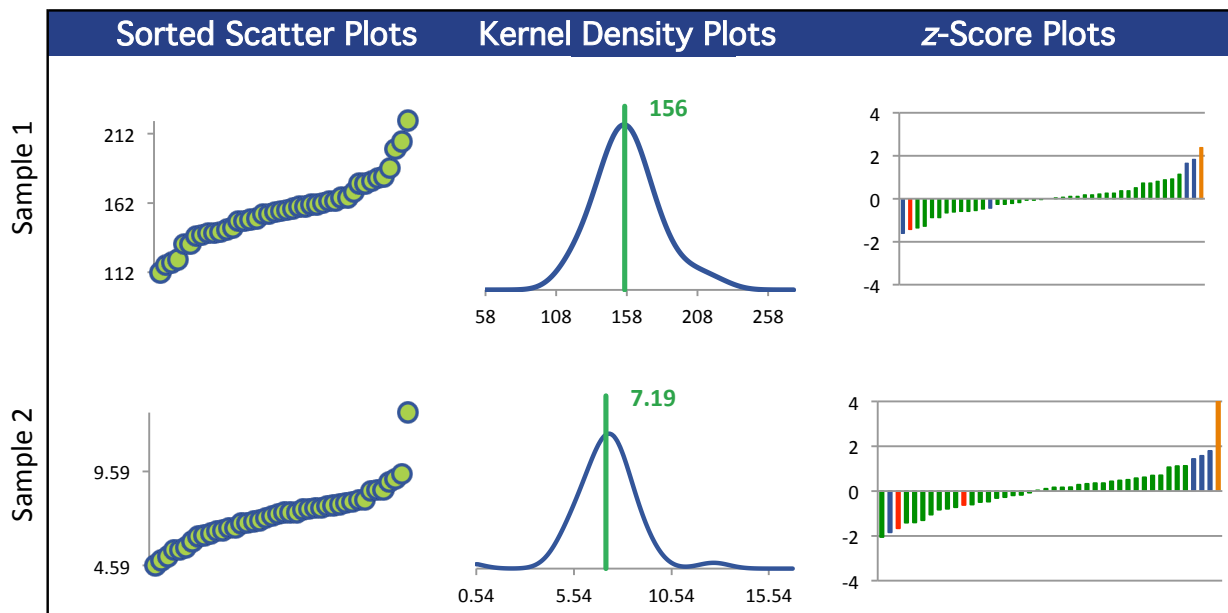
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	42	42	42	42
Median $\mu\text{g/g}$	157	7.36	66.7	104
Robust Mean $\mu\text{g/g}$	156	7.19	67.5	103
U $\mu\text{g/g}$	4.03	0.245	1.77	2.33
Robust Standard Deviation $\mu\text{g/g}$	20.9	1.27	9.16	12.1
Regression Standard Deviation $\mu\text{g/g}$	27.3	1.26	11.8	17.9
Stability Flag				
Homogeneity Flag				Homogeneity
Standard Deviation Used (SDPA) $\mu\text{g/g}$	27.3	1.27	11.8	18.0
Outliers	0	0	0	0
$ z > 3.0$	0	1	0	0
$2 < z < 3$	1	1	3	0

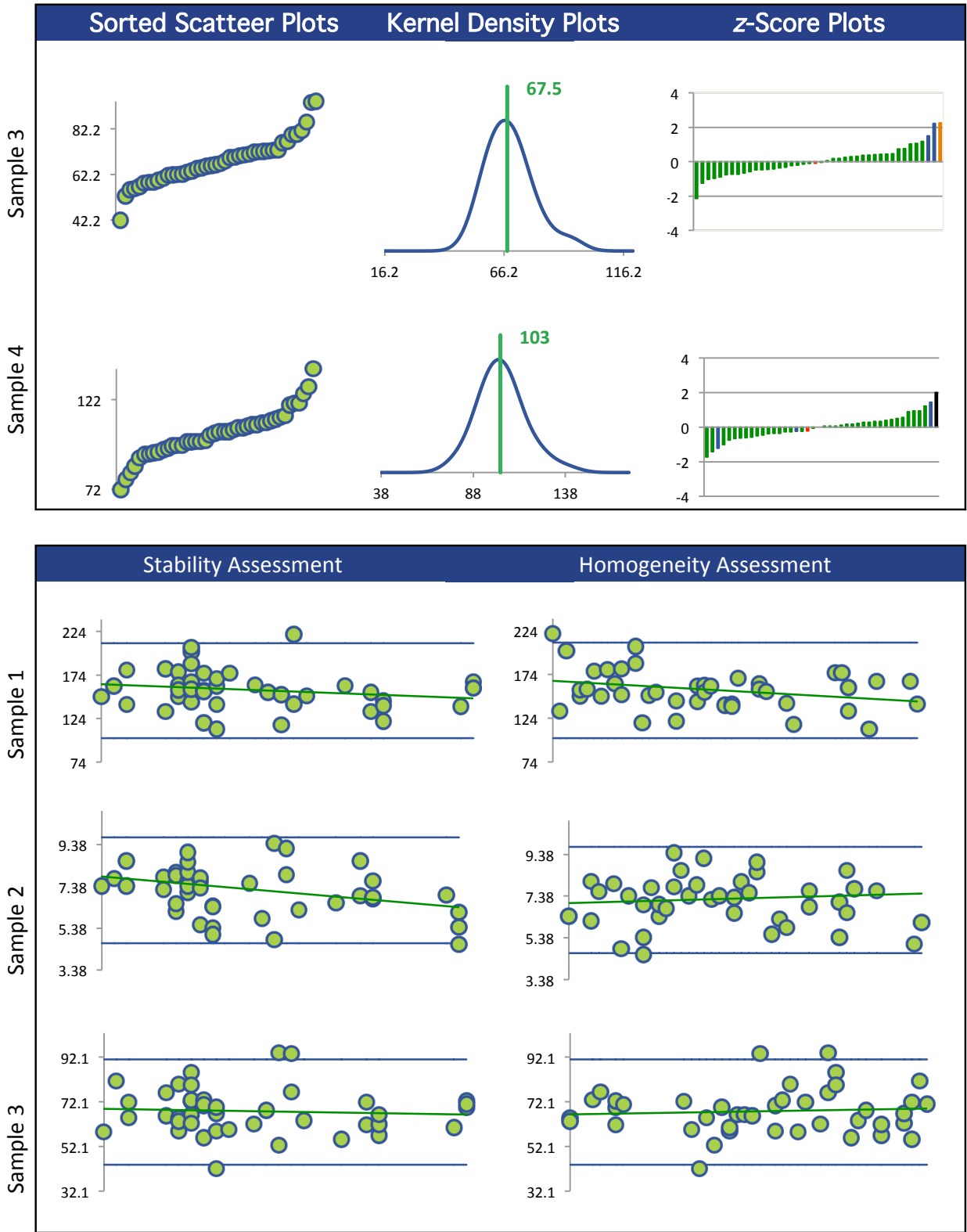
Methods Used

Method	C36-1	C36-2	C36-3	C36-4
GC/MS - PURGE AND TRAP (Blue)	18	18	18	18
GC/MS - HEADSPACE (Red)	18	18	18	18
GC/MS/FID (Green)	1	1	1	1
GC/MS (Orange)	5	5	5	5

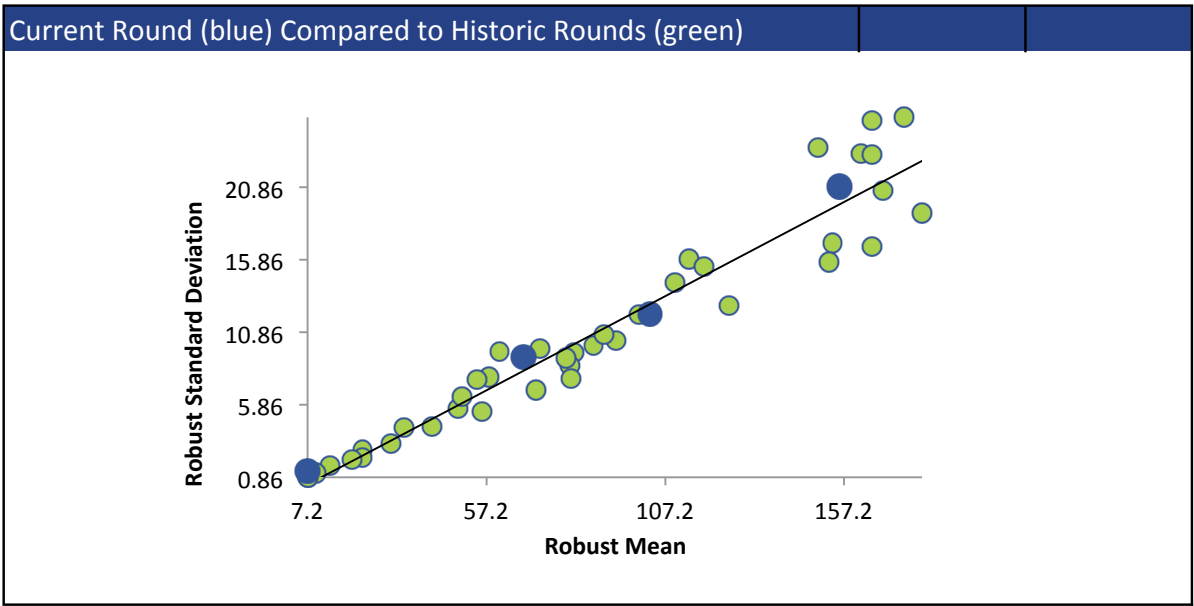
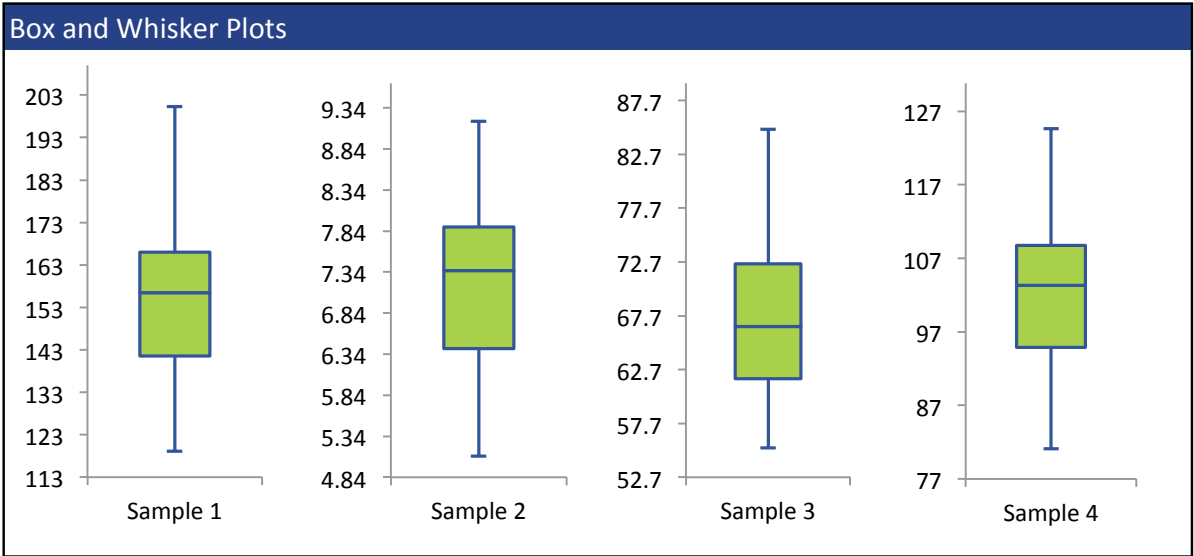
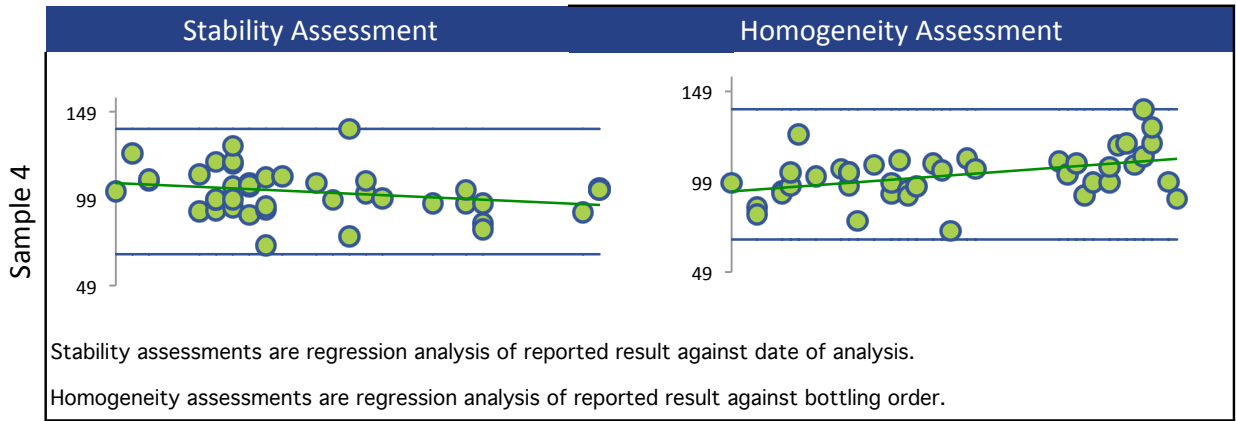
All summary stats and the plots below are based on the data excluding any flagged outliers



STYRENE



STYRENE



TETRACHLOROETHYLENE

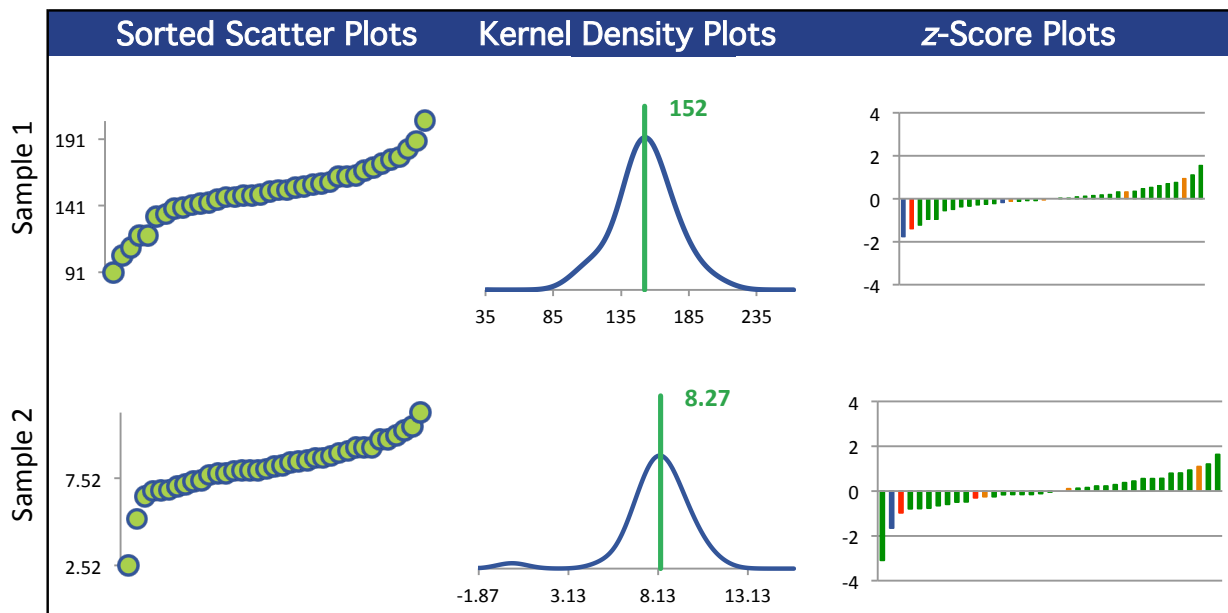
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	37	37	37	37
Median $\mu\text{g/g}$	152	8.20	66.0	102
Robust Mean $\mu\text{g/g}$	152	8.27	66.7	101
U $\mu\text{g/g}$	4.17	0.263	1.56	2.38
Robust Standard Deviation $\mu\text{g/g}$	20.3	1.28	7.58	11.6
Regression Standard Deviation $\mu\text{g/g}$	34.2	1.86	15.0	22.7
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) $\mu\text{g/g}$	34.2	1.86	15.0	22.7
Outliers	0	0	0	0
$ z > 3.0$	0	1	0	0
$2 < z < 3$	0	0	0	0

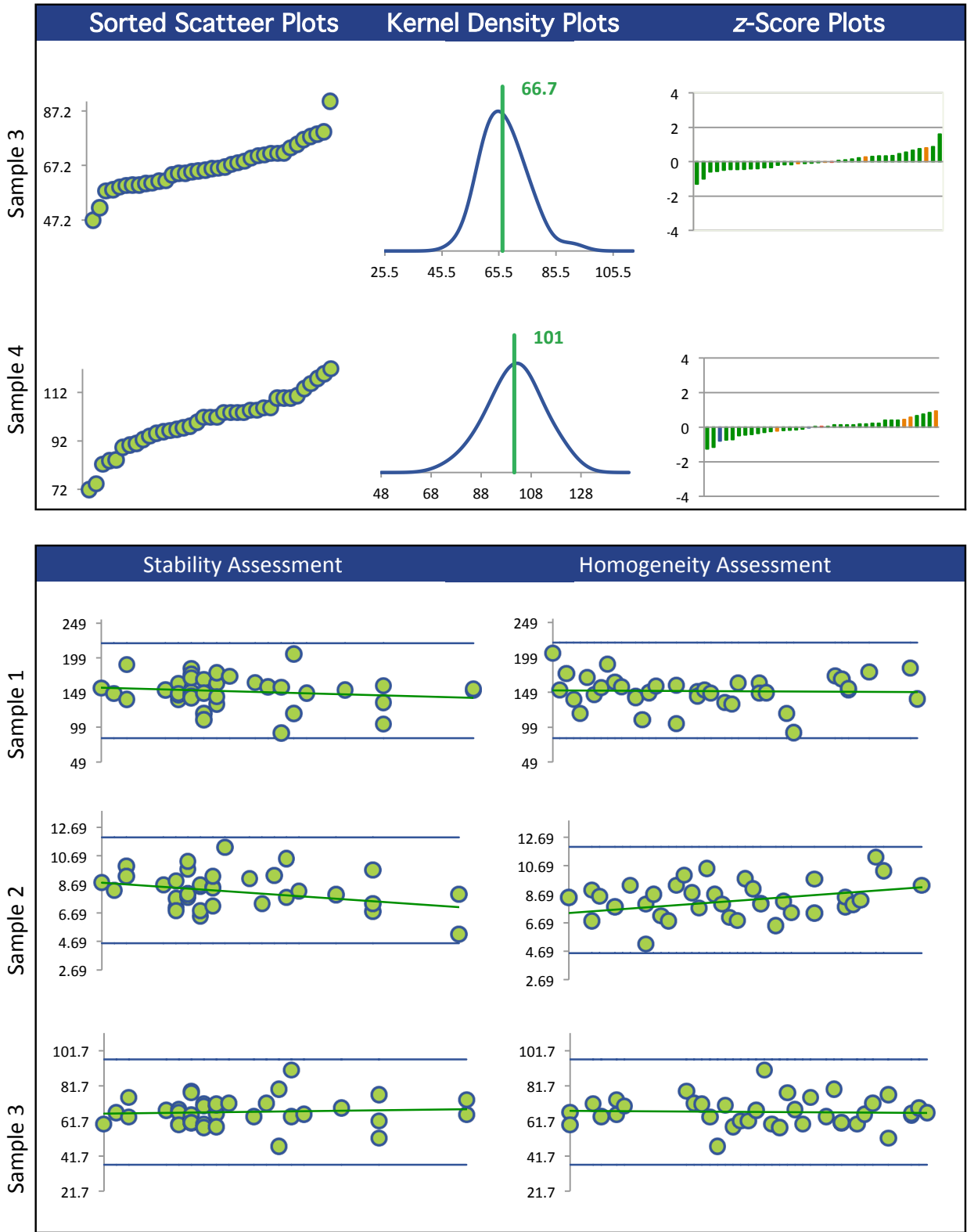
Methods Used

Method	C36-1	C36-2	C36-3	C36-4
GC/MS - PURGE AND TRAP (Blue)	18	18	18	18
GC/MS - HEADSPACE (Red)	15	15	15	15
GC/MS (Green)	4	4	4	4

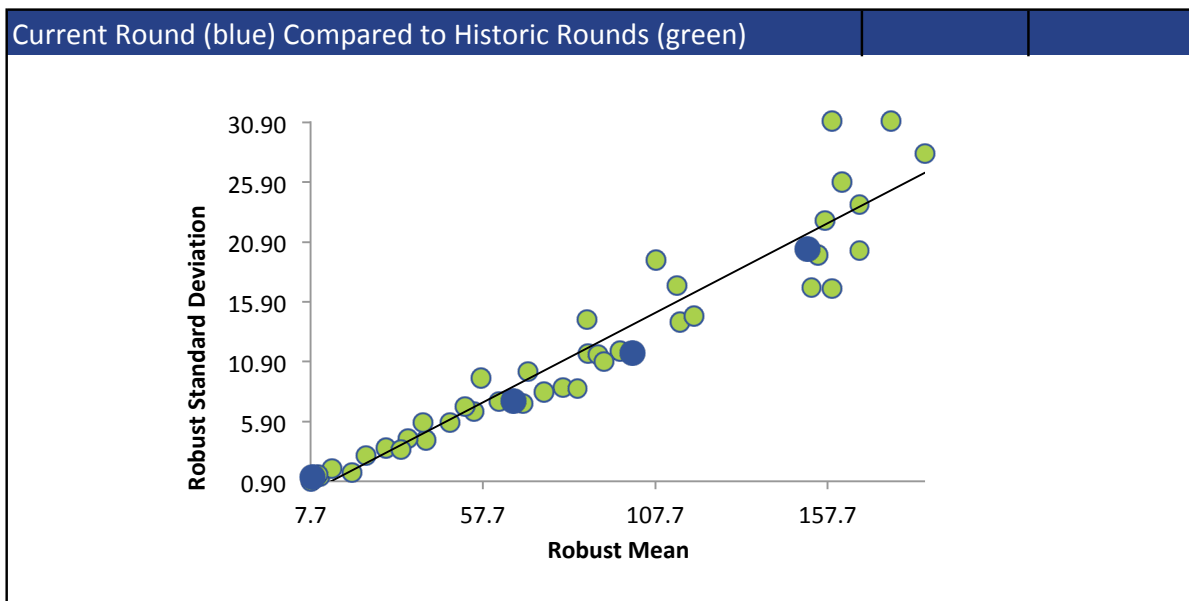
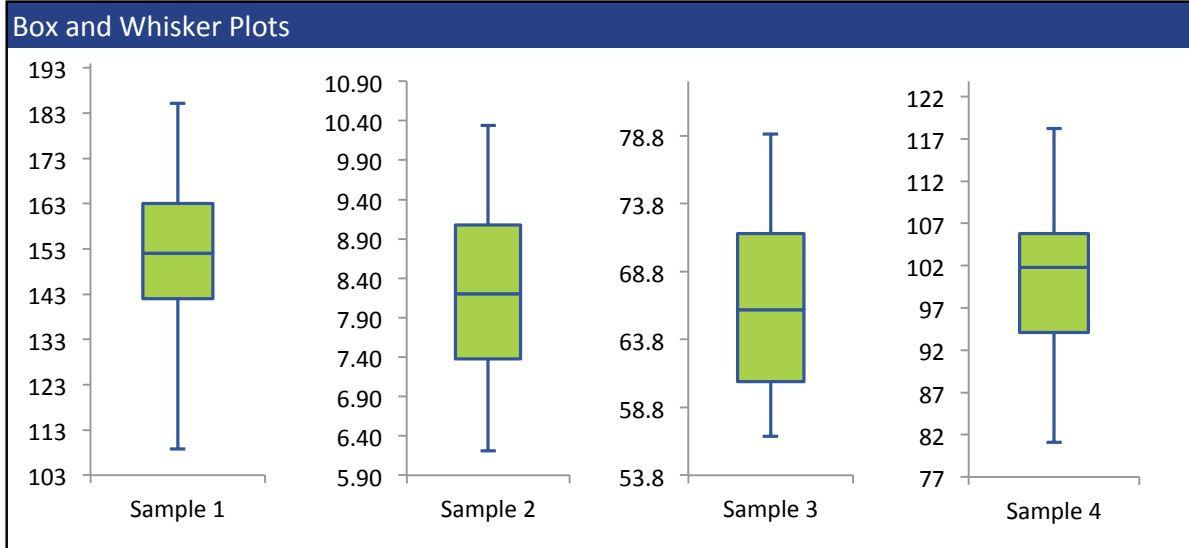
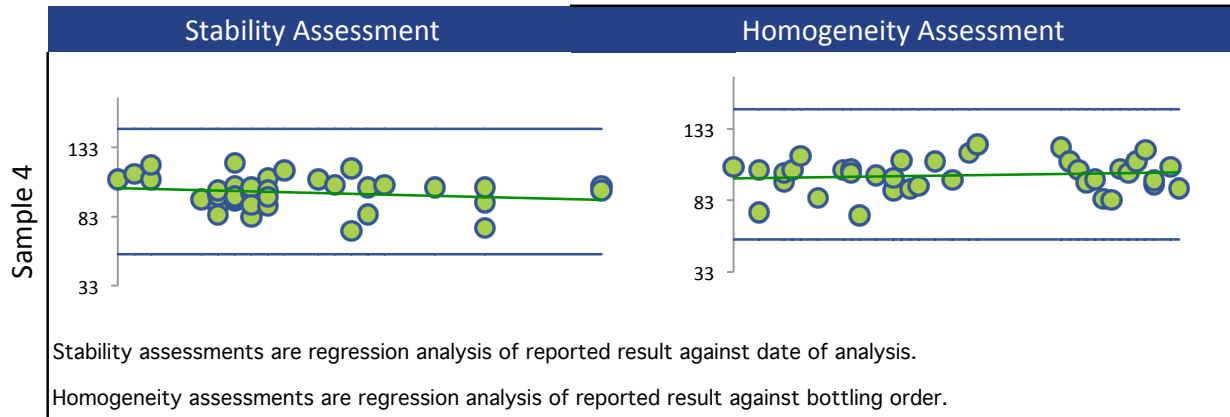
All summary stats and the plots below are based on the data excluding any flagged outliers



TETRACHLOROETHYLENE



TETRACHLOROETHYLENE



TOLUENE

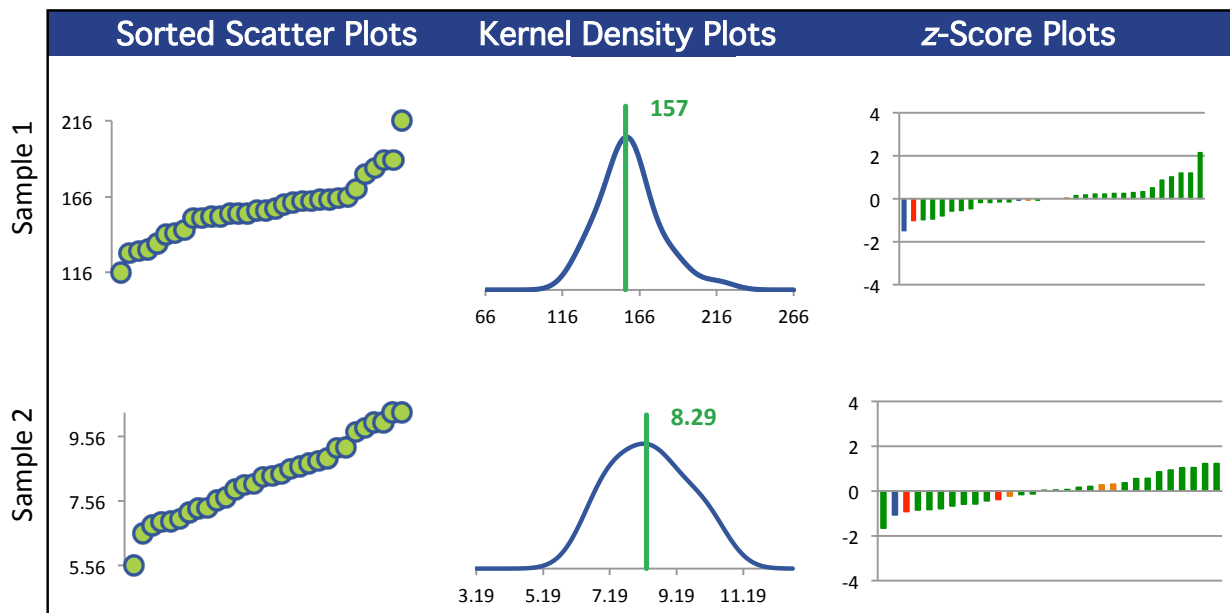
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	32	30	31	32
Median $\mu\text{g/g}$	157	8.33	66.4	104
Robust Mean $\mu\text{g/g}$	157	8.29	67.2	105
U $\mu\text{g/g}$	4.15	0.301	1.37	2.70
Robust Standard Deviation $\mu\text{g/g}$	18.8	1.32	6.11	12.2
Regression Standard Deviation $\mu\text{g/g}$	27.5	1.45	11.8	18.4
Stability Flag				
Homogeneity Flag		Homogeneity		
Standard Deviation Used (SDPA) $\mu\text{g/g}$	27.5	1.65	11.8	18.4
Outliers	0	1	1	0
$ z > 3.0$	0	0	0	0
$2 < z < 3$	1	0	0	1

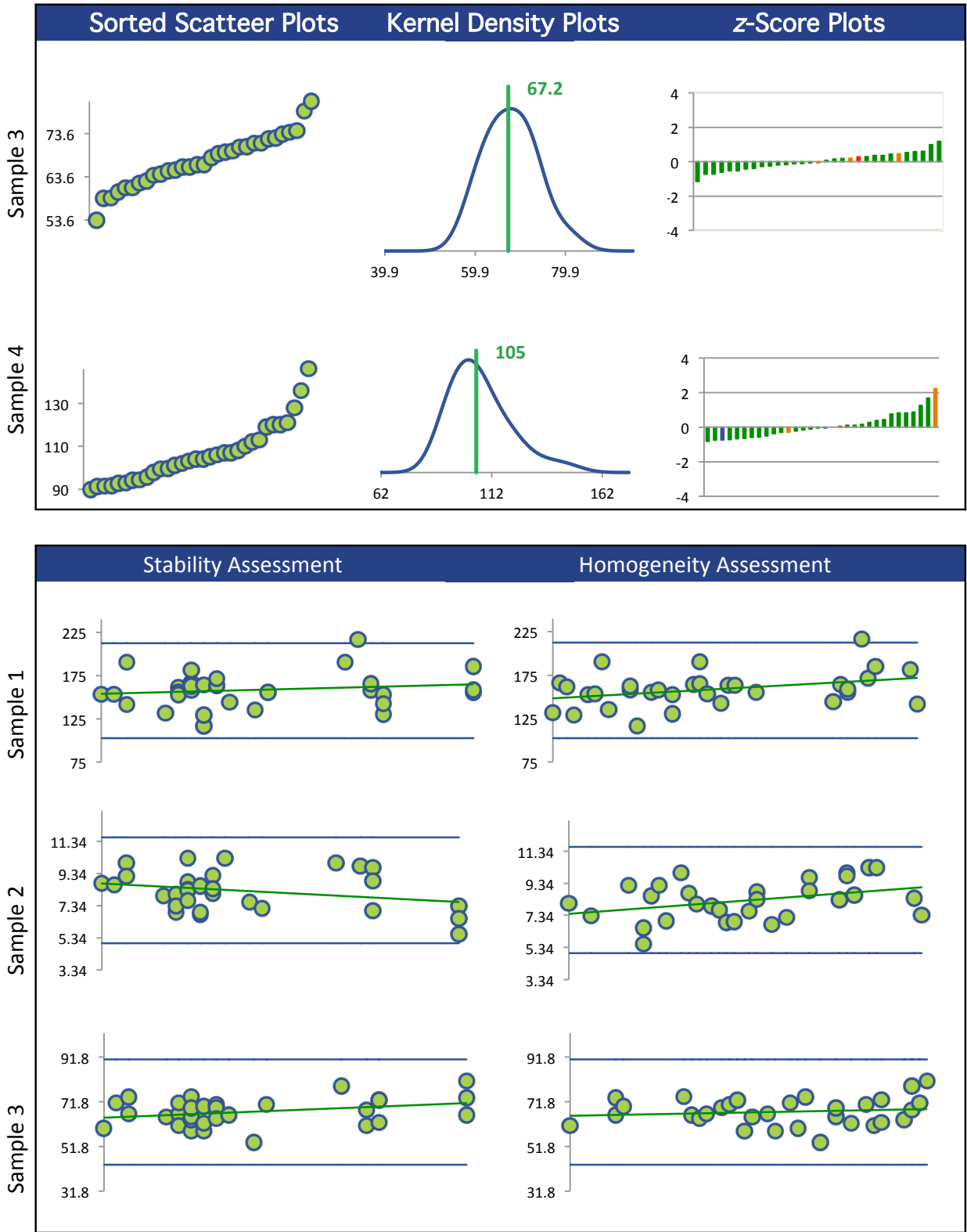
Methods Used

Method	C36-1	C36-2	C36-3	C36-4
GC/MS - HEADSPACE (Blue)	13	12	12	13
GC/MS - PURGE AND TRAP (Red)	14	14	14	14
GC/MS (Green)	5	4	5	5

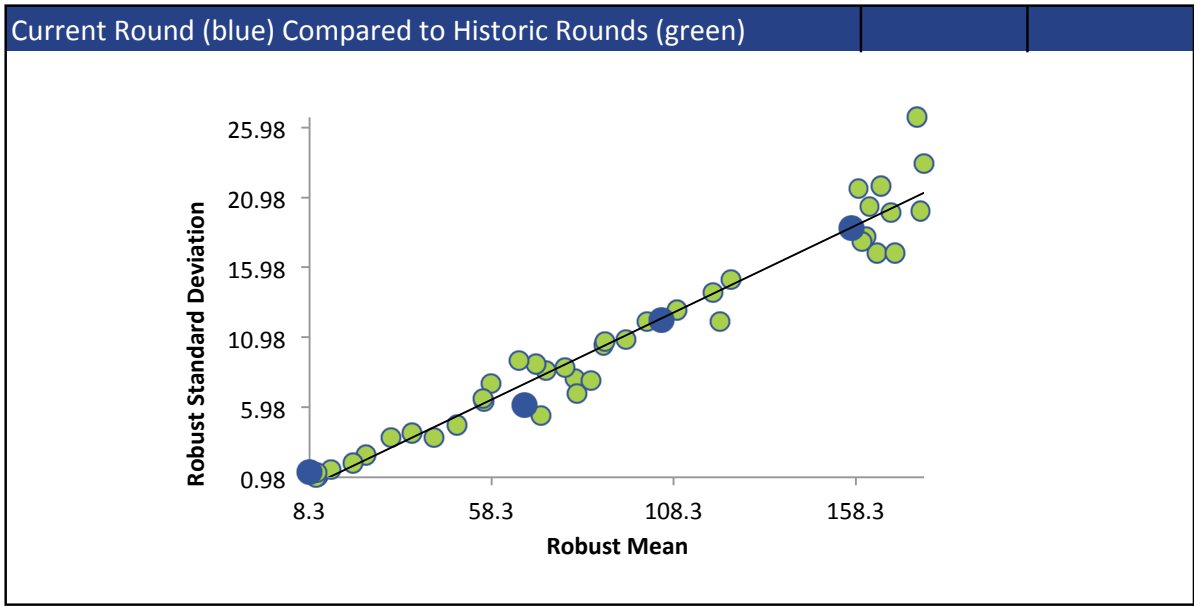
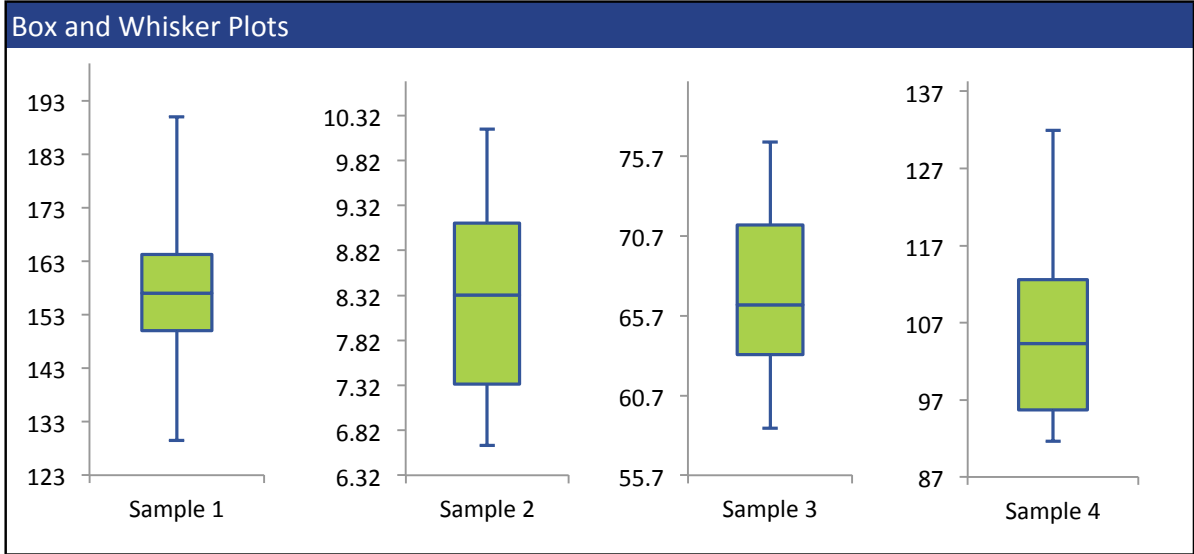
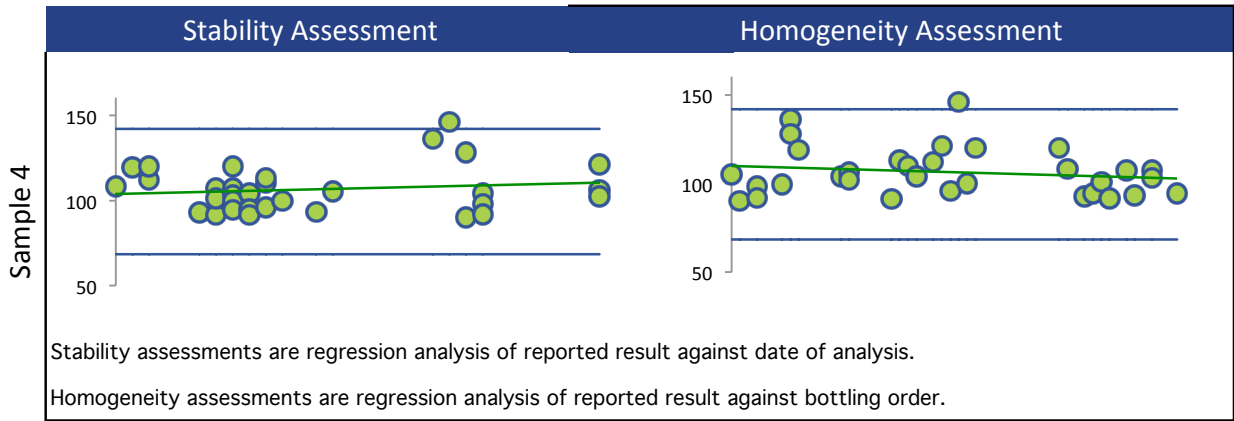
All summary stats and the plots below are based on the data excluding any flagged outliers



TOLUENE



TOLUENE



TRANS-1,2-DICHLOROETHYLENE

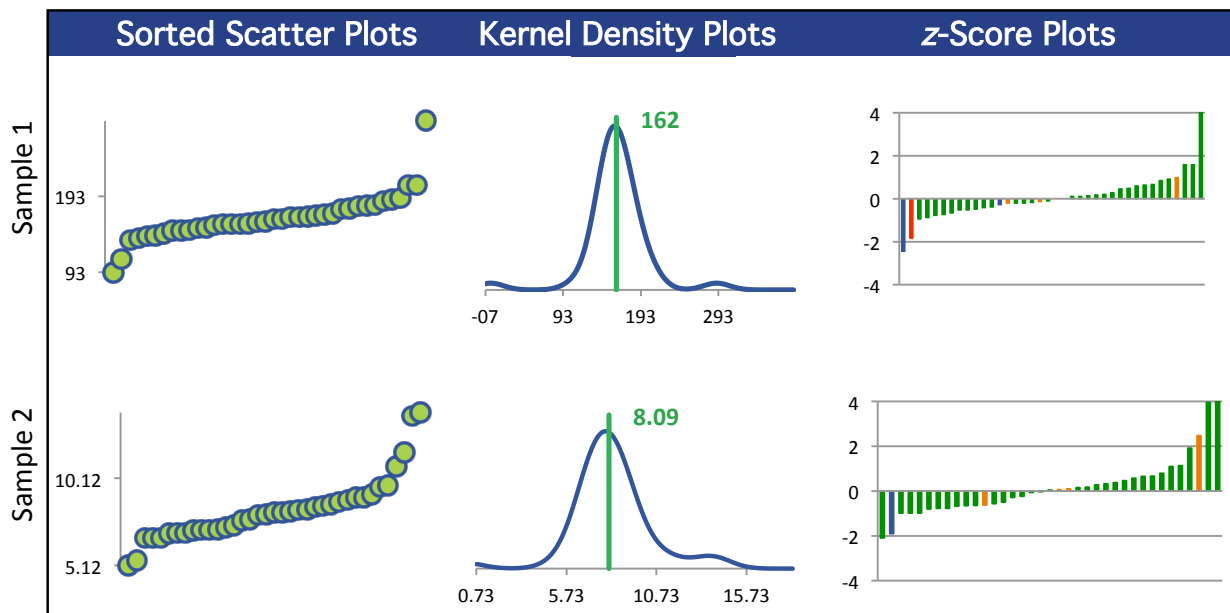
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	38	37	38	38
Median $\mu\text{g/g}$	161	8.14	70.9	110
Robust Mean $\mu\text{g/g}$	162	8.09	72.2	109
U $\mu\text{g/g}$	4.14	0.265	1.96	2.64
Robust Standard Deviation $\mu\text{g/g}$	20.4	1.29	9.69	13.0
Regression Standard Deviation $\mu\text{g/g}$	28.3	1.42	12.6	19.1
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) $\mu\text{g/g}$	28.3	1.42	12.6	19.1
Outliers	0	1	0	0
$ z > 3.0$	1	2	1	1
$2 < z < 3$	1	2	1	0

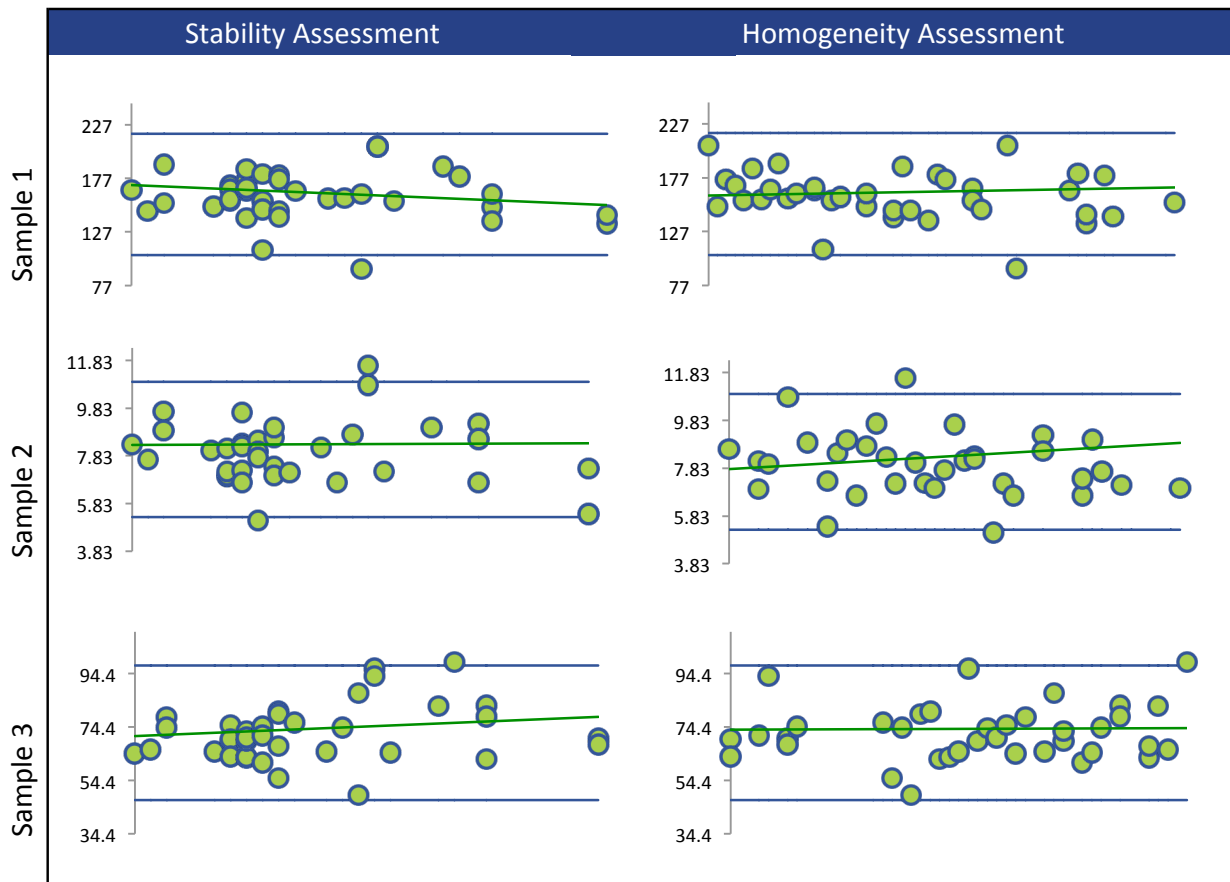
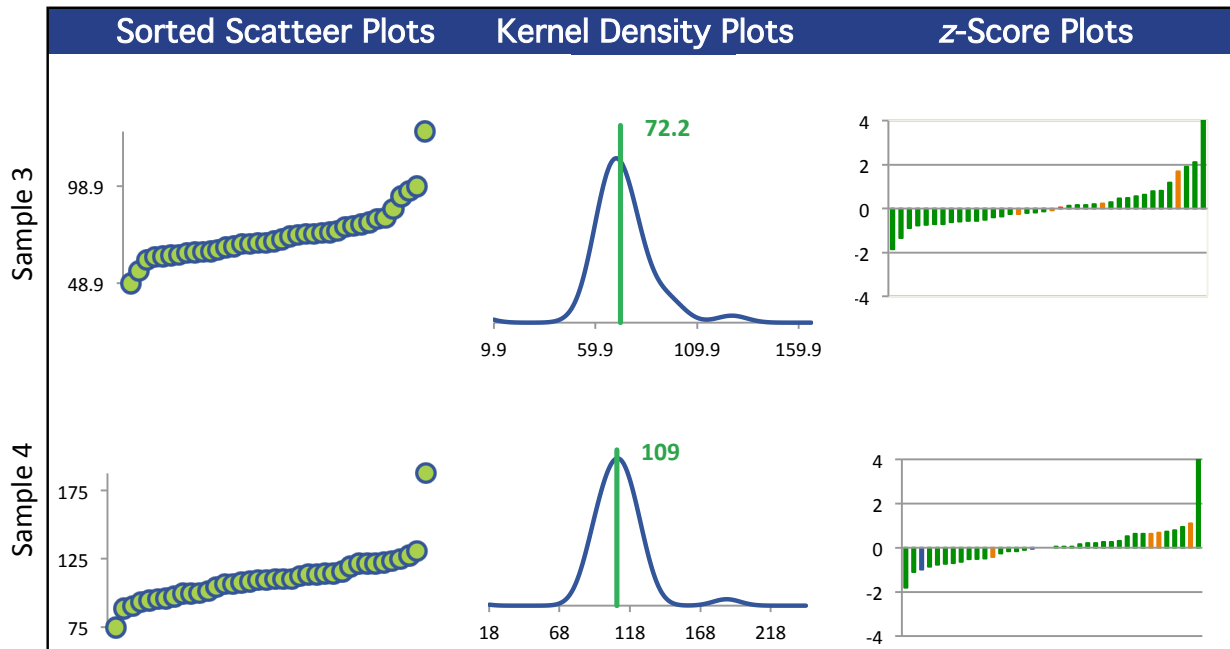
Methods Used

Method	C36-1	C36-2	C36-3	C36-4
GC/MS - PURGE AND TRAP (Blue)	17	16	17	17
GC/MS - HEADSPACE (Red)	16	16	16	16
GC/MS (Green)	5	5	5	5

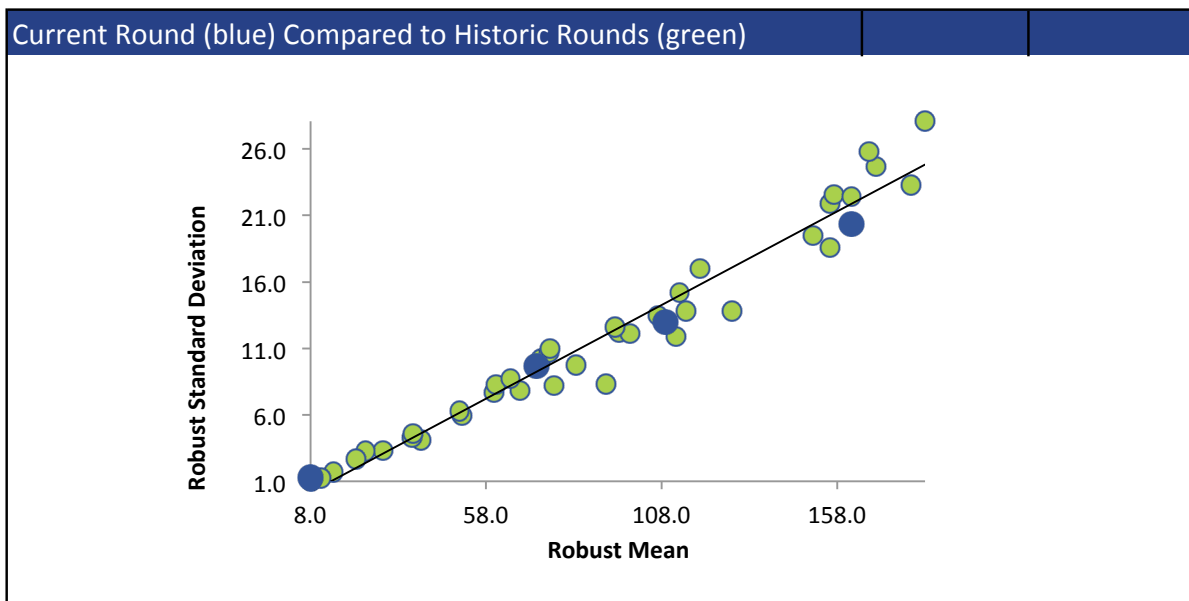
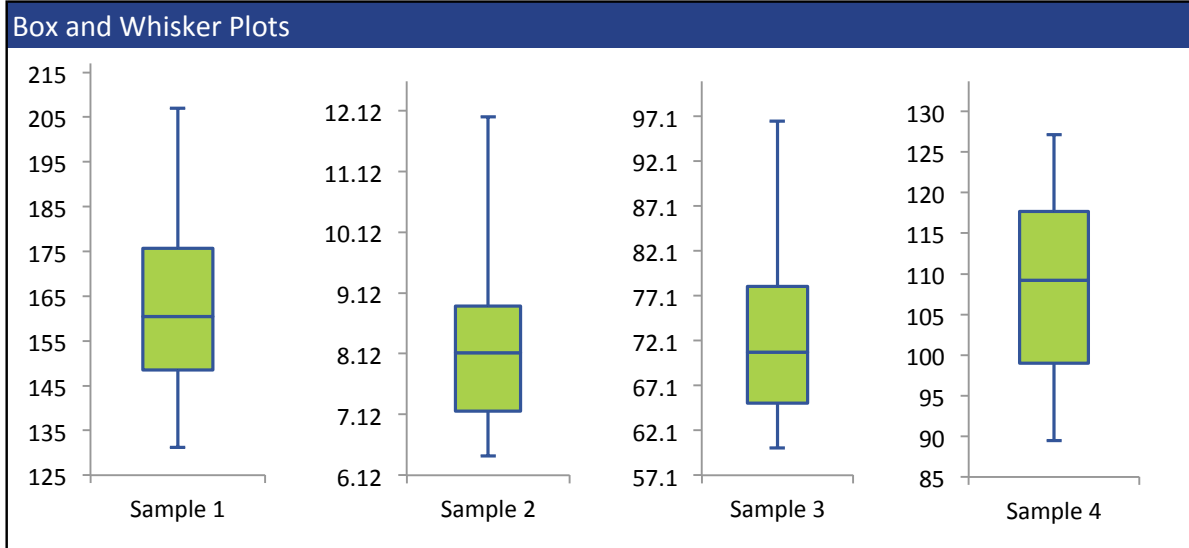
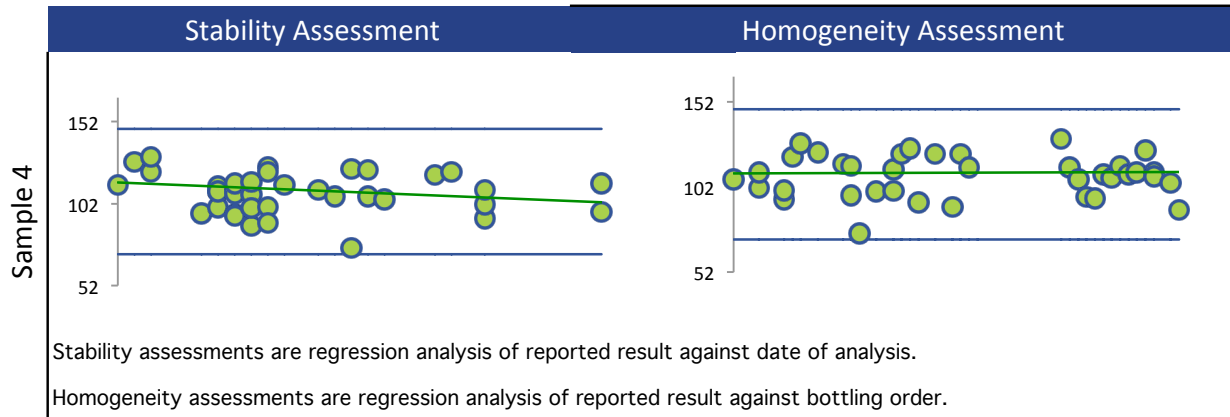
All summary stats and the plots below are based on the data excluding any flagged outliers



TRANS-1,2-DICHLOROETHYLENE



TRANS-1,2-DICHLOROETHYLENE



TRANS-1,3-DICHLOROPROPENE

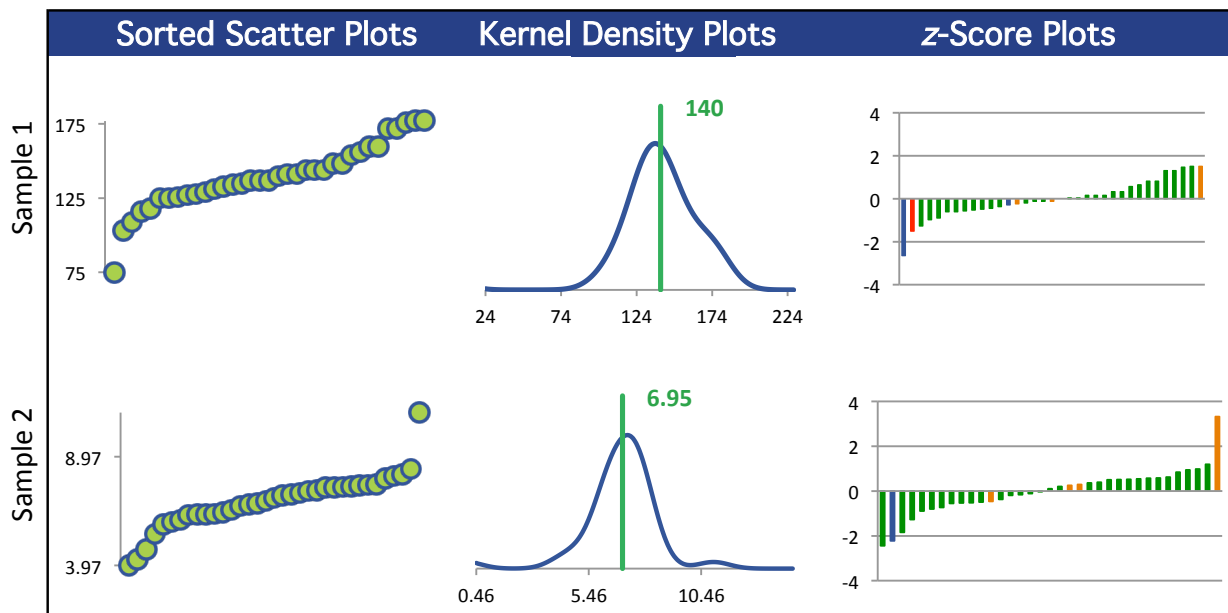
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	35	35	35	35
Median $\mu\text{g/g}$	137	7.07	59.1	91.0
Robust Mean $\mu\text{g/g}$	140	6.95	59.3	92.4
U $\mu\text{g/g}$	4.46	0.210	2.22	2.81
Robust Standard Deviation $\mu\text{g/g}$	21.1	0.994	10.5	13.3
Regression Standard Deviation $\mu\text{g/g}$	24.5	1.22	10.4	16.2
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) $\mu\text{g/g}$	24.5	1.22	10.5	16.2
Outliers	0	0	0	0
$ z > 3.0$	0	1	0	0
$2 < z < 3$	1	2	1	3

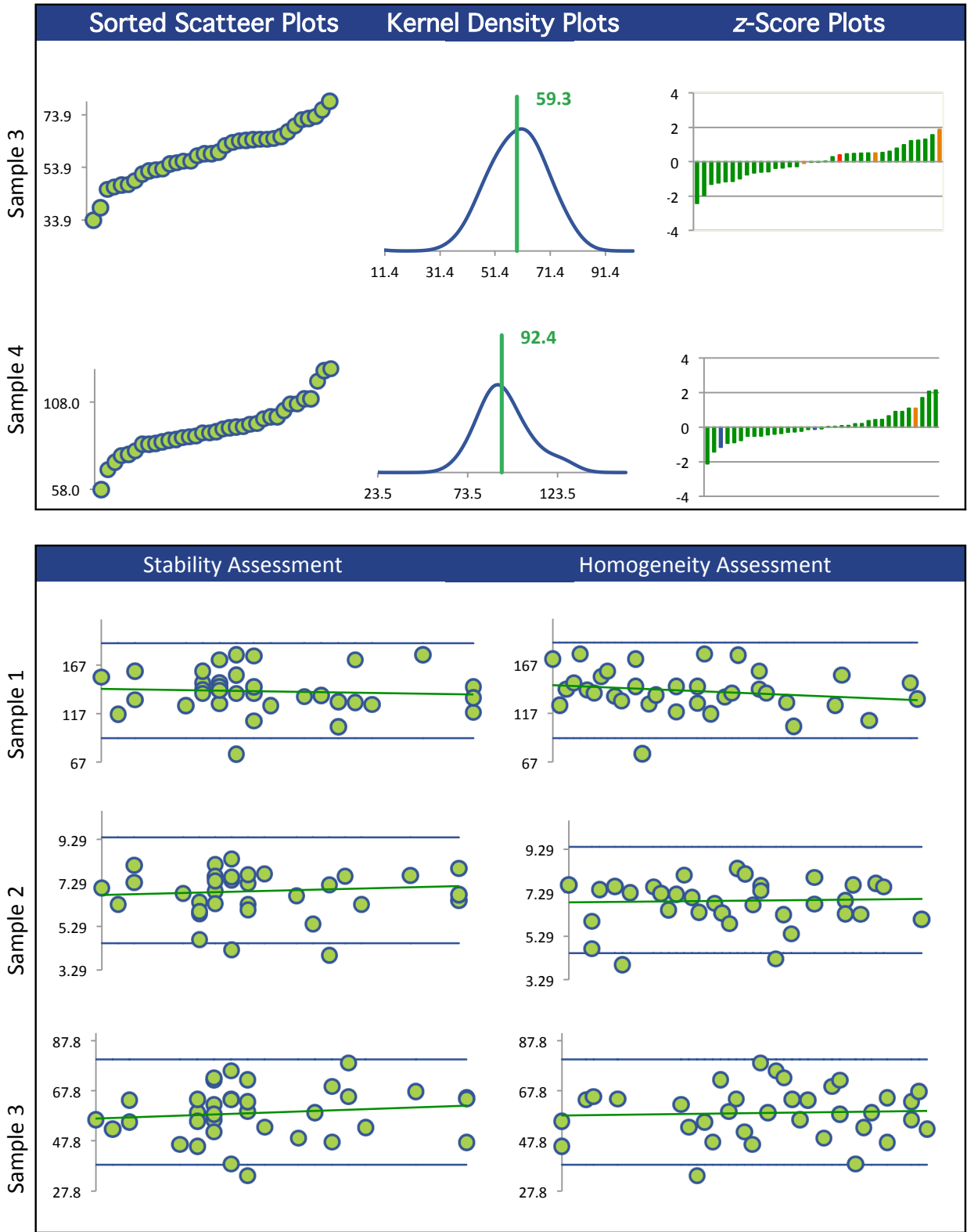
Methods Used

Method	C36-1	C36-2	C36-3	C36-4
GC/MS - HEADSPACE (Blue)	14	14	14	14
GC/MS - PURGE AND TRAP (Red)	17	17	17	17
GC/MS (Green)	4	4	4	4

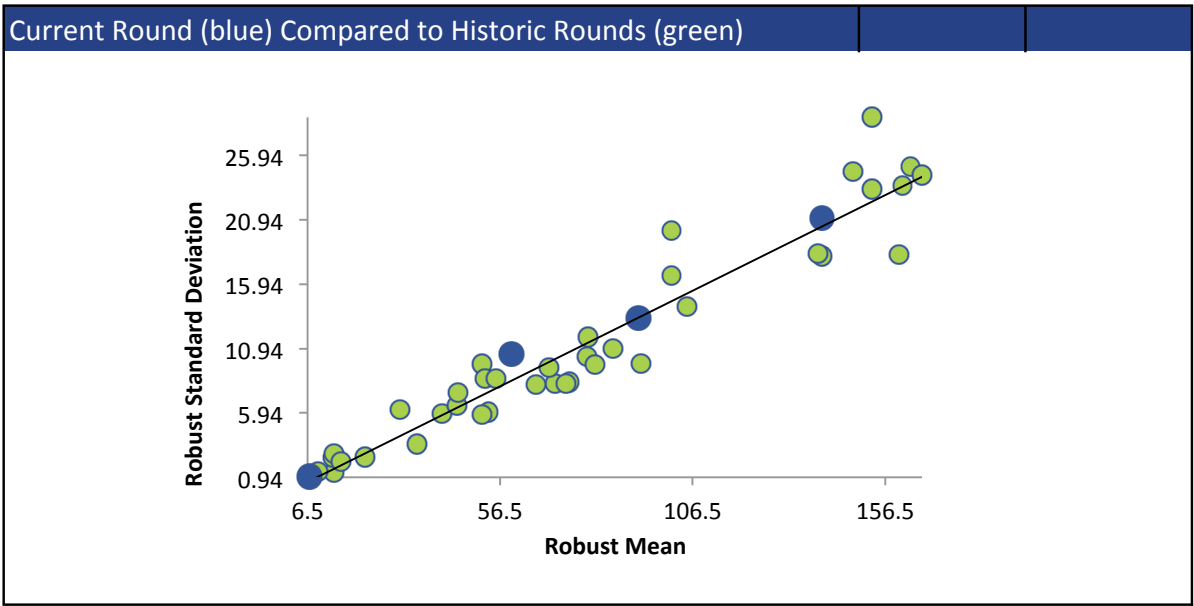
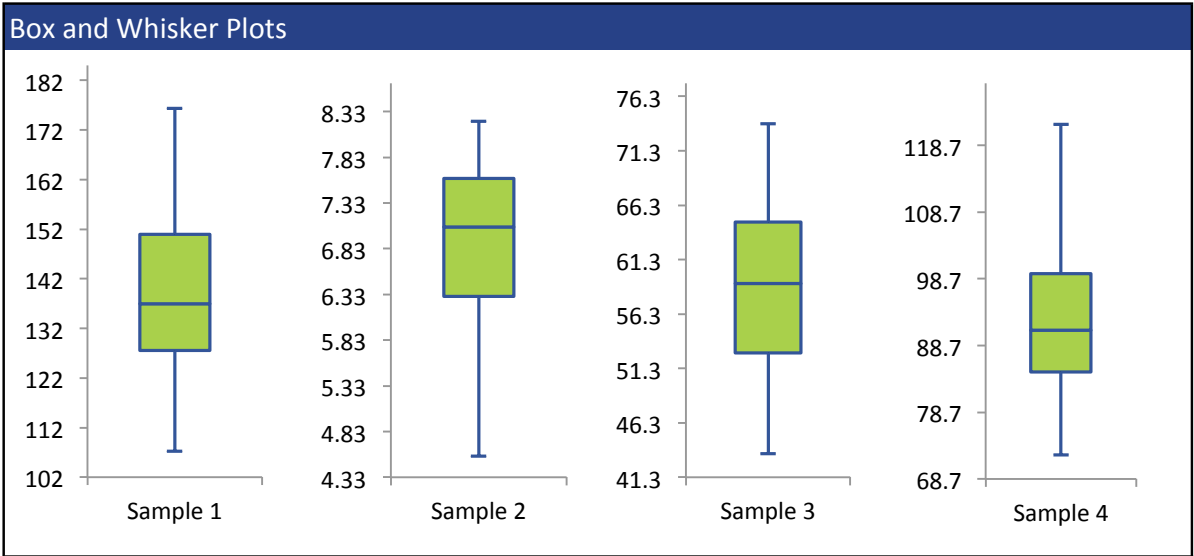
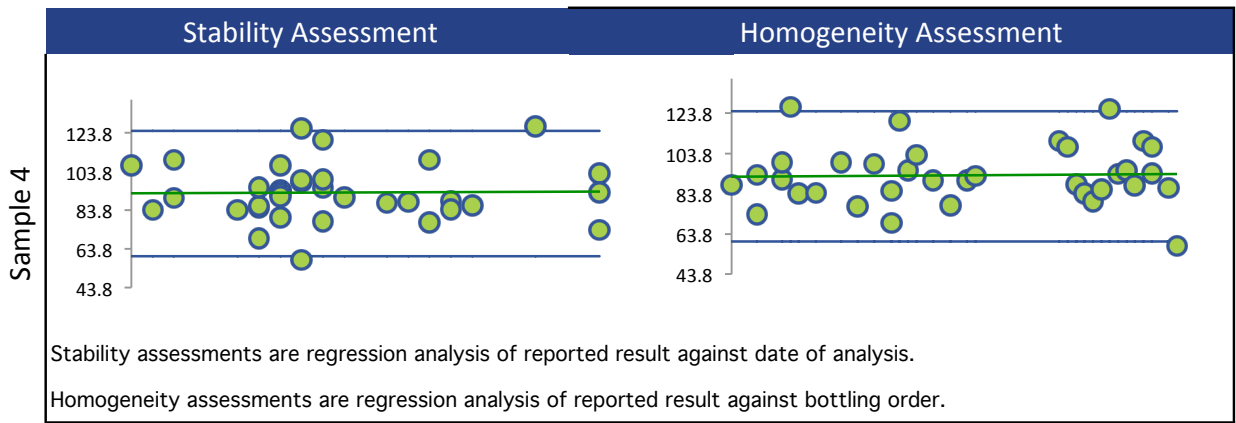
All summary stats and the plots below are based on the data excluding any flagged outliers



TRANS-1,3-DICHLOROPROPENE



TRANS-1,3-DICHLOROPROPENE



TRICHLOROETHYLENE

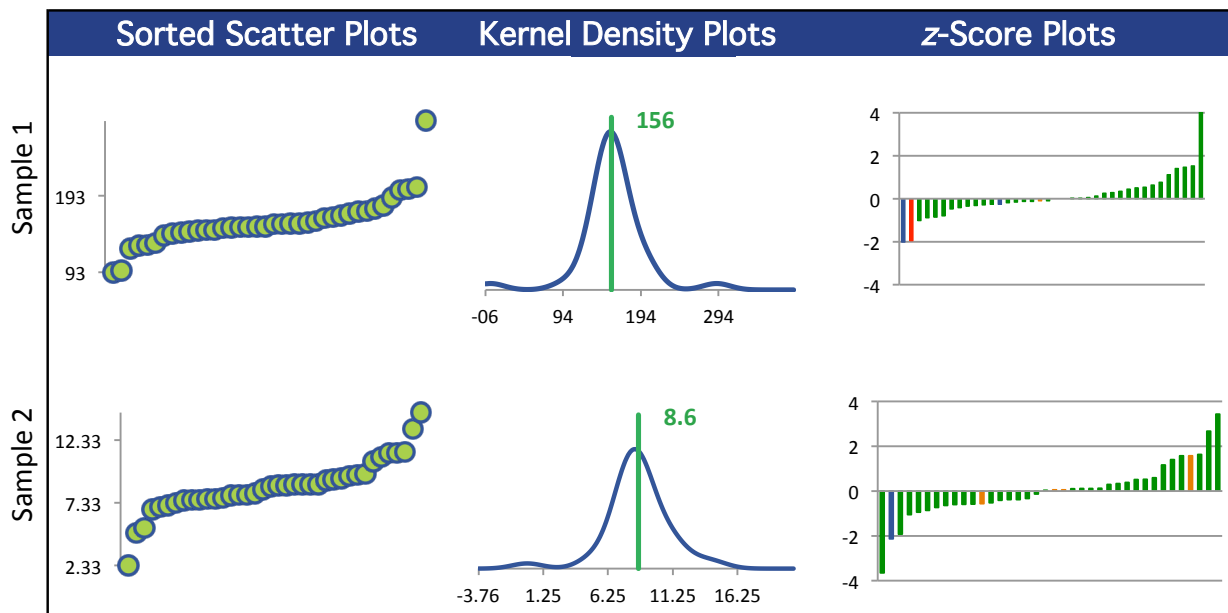
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	38	38	38	37
Median $\mu\text{g/g}$	155	8.67	67.7	102
Robust Mean $\mu\text{g/g}$	156	8.60	69.1	105
U $\mu\text{g/g}$	4.42	0.343	1.98	3.08
Robust Standard Deviation $\mu\text{g/g}$	21.8	1.69	9.78	15.0
Regression Standard Deviation $\mu\text{g/g}$	31.3	1.72	13.8	21.0
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) $\mu\text{g/g}$	31.3	1.72	13.8	21.0
Outliers	0	0	0	1
$ z > 3.0$	1	2	1	0
$2 < z < 3$	1	2	1	0

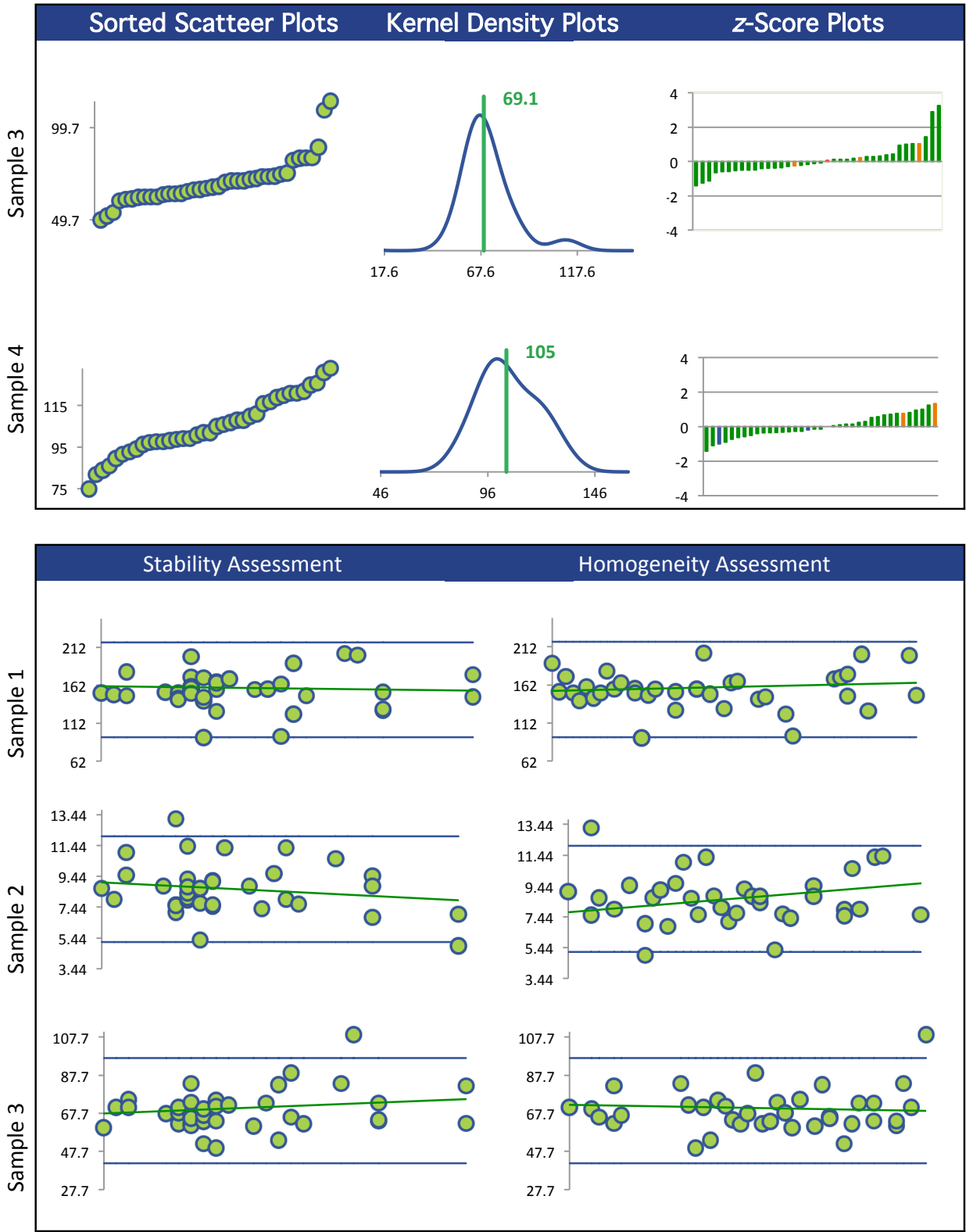
Methods Used

Method	C36-1	C36-2	C36-3	C36-4
GC/MS - HEADSPACE (Blue)	16	16	16	16
GC/MS - PURGE AND TRAP (Red)	18	18	18	17
GC/MS (Green)	4	4	4	4

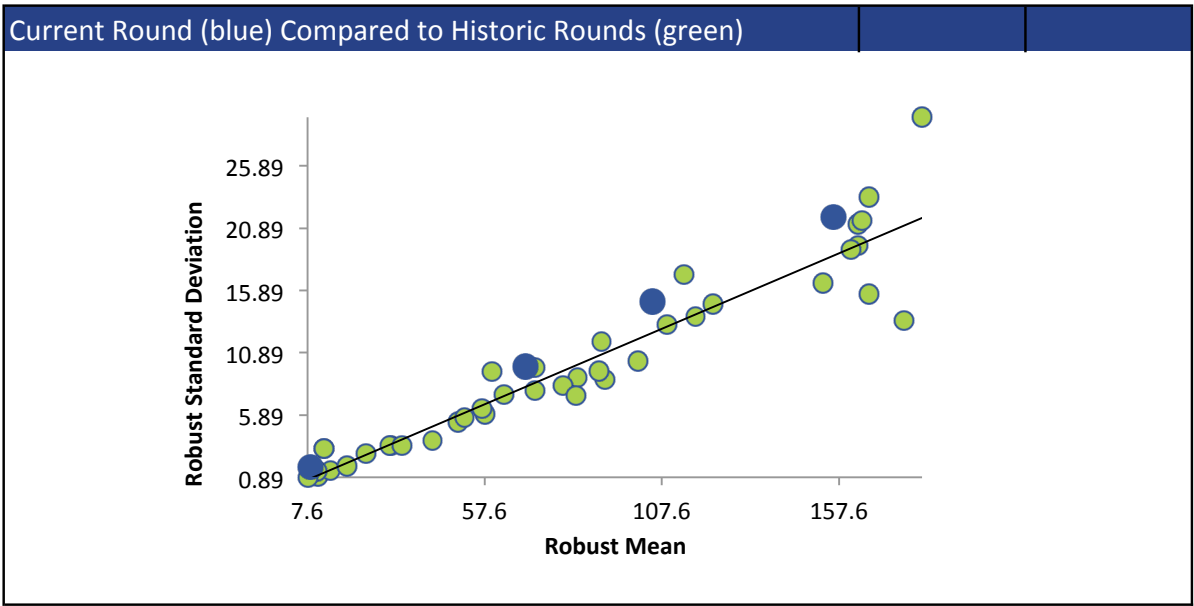
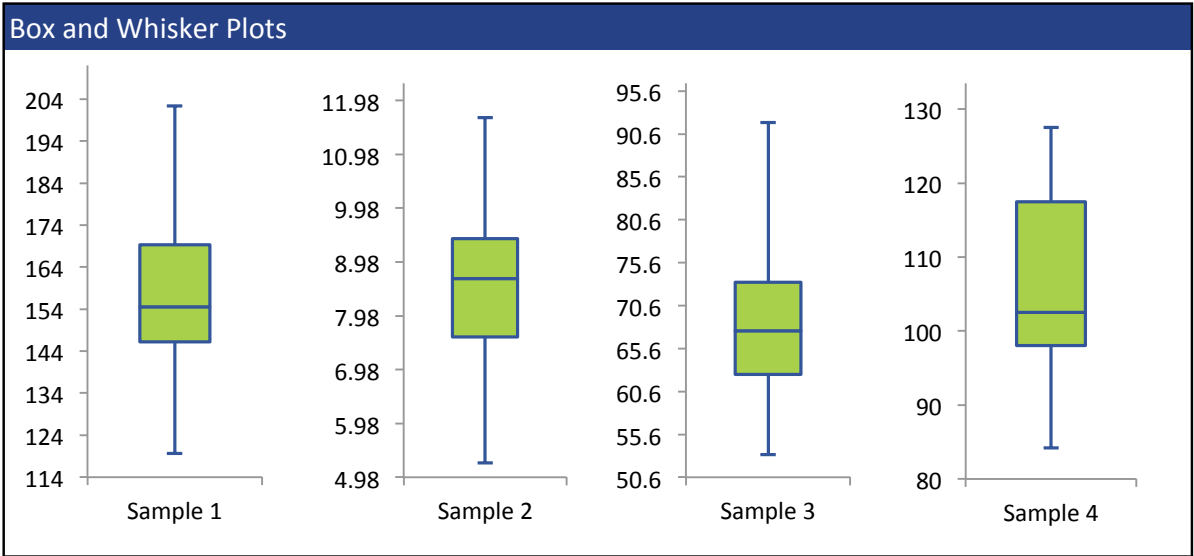
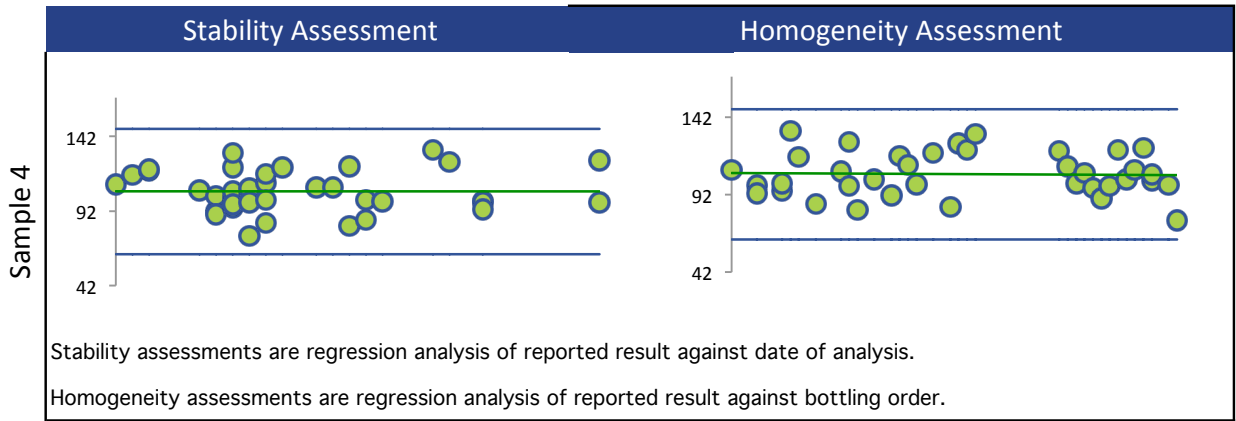
All summary stats and the plots below are based on the data excluding any flagged outliers



TRICHLOROETHYLENE



TRICHLOROETHYLENE



TRICHLOROFLUOROMETHANE

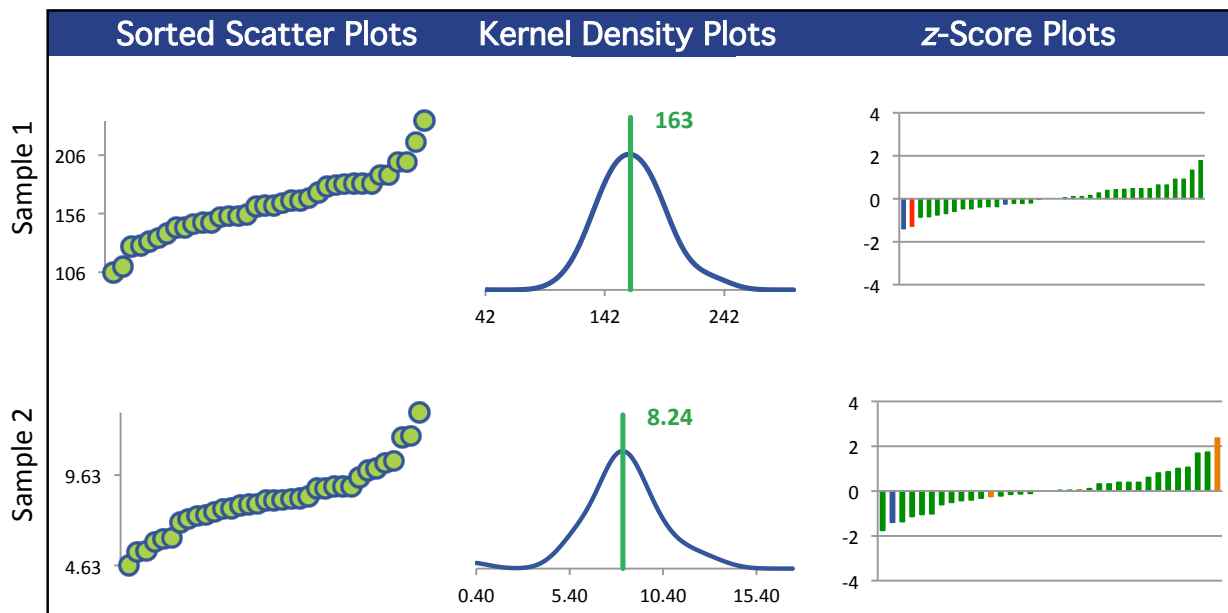
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	36	35	36	36
Median $\mu\text{g/g}$	163	8.24	73.2	115
Robust Mean $\mu\text{g/g}$	163	8.24	74.2	115
U $\mu\text{g/g}$	5.50	0.363	2.85	4.15
Robust Standard Deviation $\mu\text{g/g}$	26.4	1.72	13.7	19.9
Regression Standard Deviation $\mu\text{g/g}$	40.7	2.06	18.6	28.7
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) $\mu\text{g/g}$	40.7	2.06	18.6	28.7
Outliers	1	2	1	1
$ z > 3.0$	0	0	0	0
$2 < z < 3$	0	1	1	0

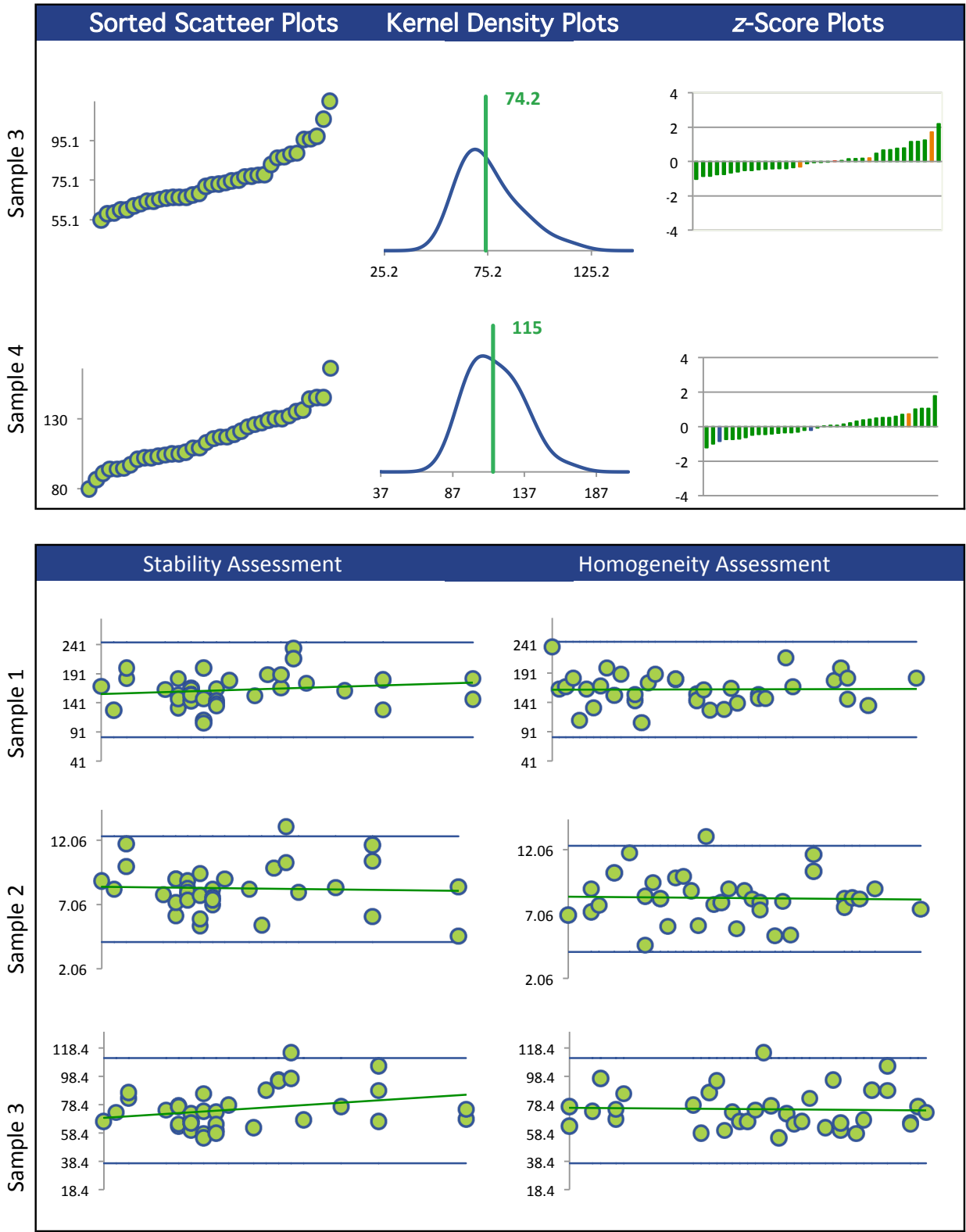
Methods Used

Method	C36-1	C36-2	C36-3	C36-4
GC/MS - HEADSPACE (Blue)	15	15	15	15
GC/MS (Red)	4	4	4	4
GC/MS - PURGE AND TRAP (Green)	17	16	17	17

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



TRICHLOROFLUOROMETHANE



TRICHLOROFLUOROMETHANE

