

Test Group Summary Report

C36 VOCs in Soil

June 2020 PT Round

Issued: October 1, 2020

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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. 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:

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

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) is calculated using reported results, obvious outliers removed;
- The expected inter-laboratory standard deviation (s!) is estimated from regression equations derived from previous studies (see PROC11- *PT Regression Equations* for details);
- If s! is higher than stdev then s! is used in the z score equation;
- If s! is lower than stdev then stdev is used in the z score equation;
- 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.

Annex A Summary by Analyte

1,1,1-TRICHLOROETHANE

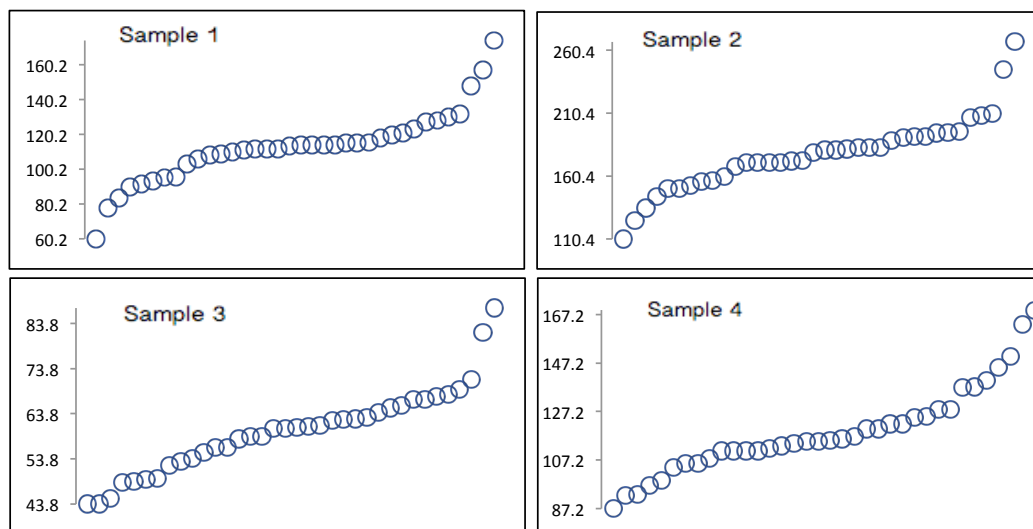
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	36	36	36	36
Median	114	180	60.7	115
Robust Mean	112	177	59.5	118
U	3.31	5.06	1.82	3.48
Robust Standard Deviation	15.9	24.3	8.74	16.7
Regression Standard Deviation	25.2	39.7	13.4	26.5
Stability Flag	Stability			
Homogeneity Flag				
Standard Deviation Used	26.2	39.7	13.4	26.5
Outliers	0	0	0	0
$ z > 3.0$	0	0	0	0
$2 < z < 3$	1	1	1	0

Methods Used

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

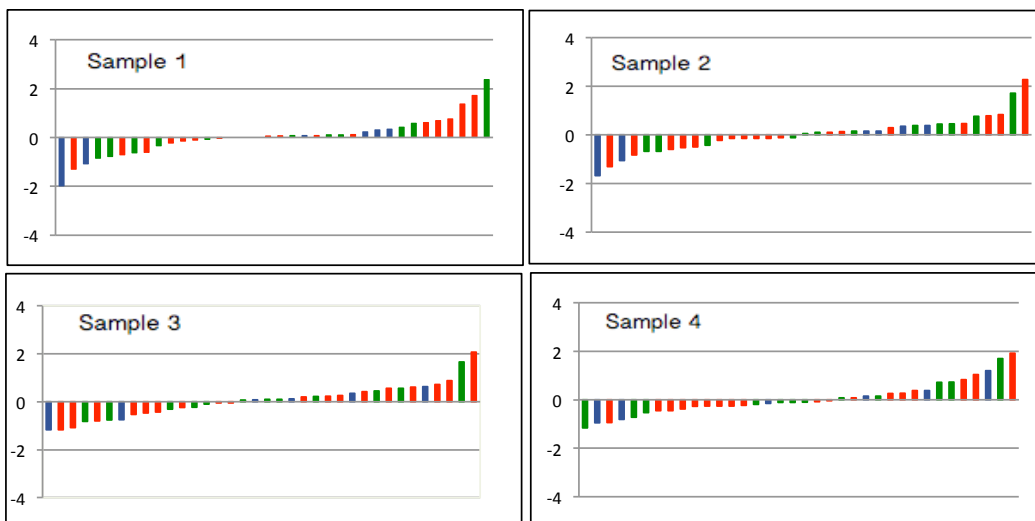
All summary stats and the plots below are based on the data excluding any flagged outliers



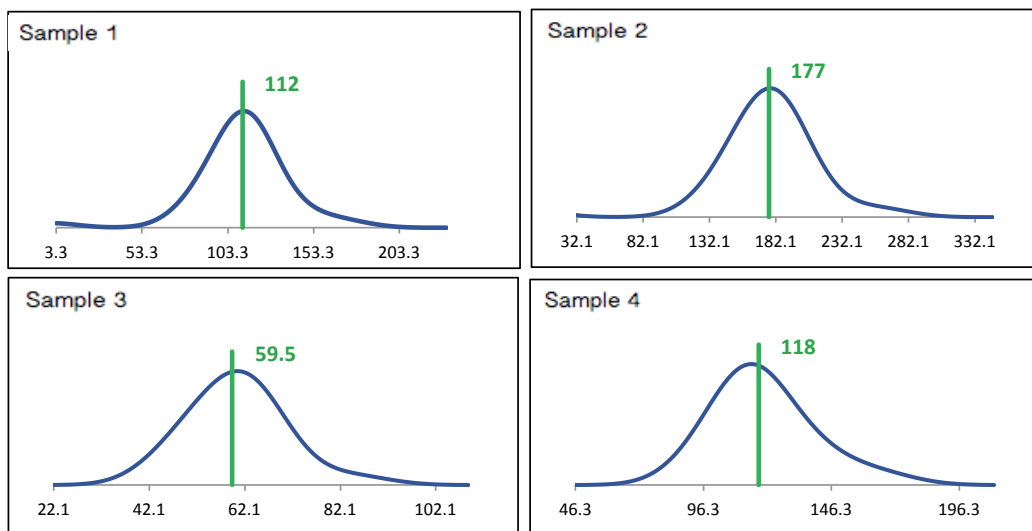
Annex A Summary by Analyte

1,1,1-TRICHLOROETHANE

z-Score Plots



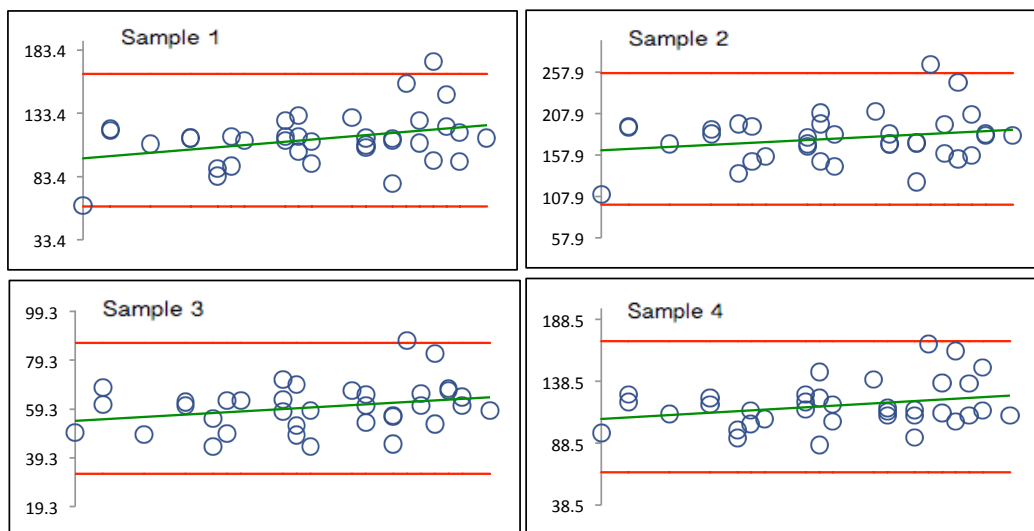
Kernel Density Plots



Annex A Summary by Analyte

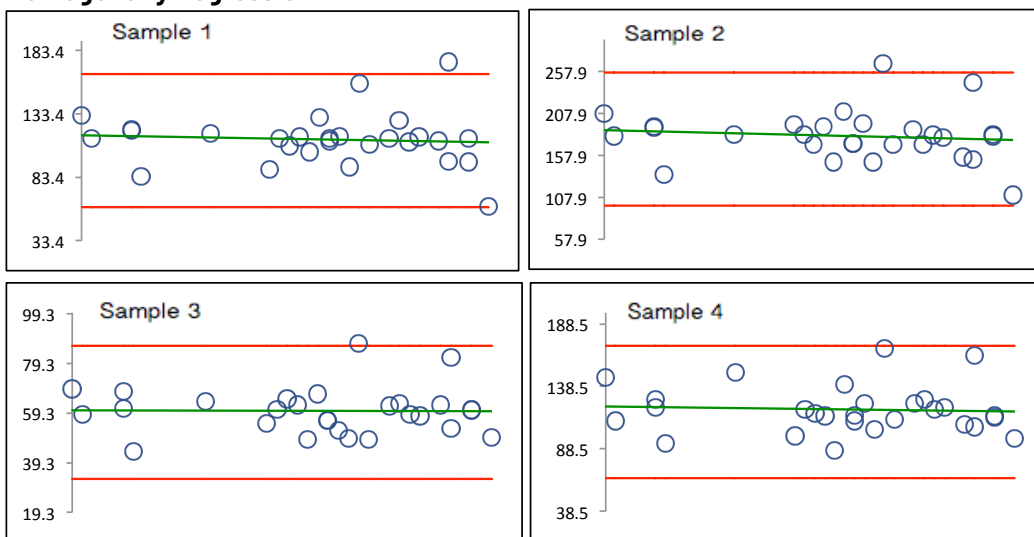
1,1,1-TRICHLOROETHANE

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).

Annex A Summary by Analyte

1,1,2,2-TETRACHLOROETHANE

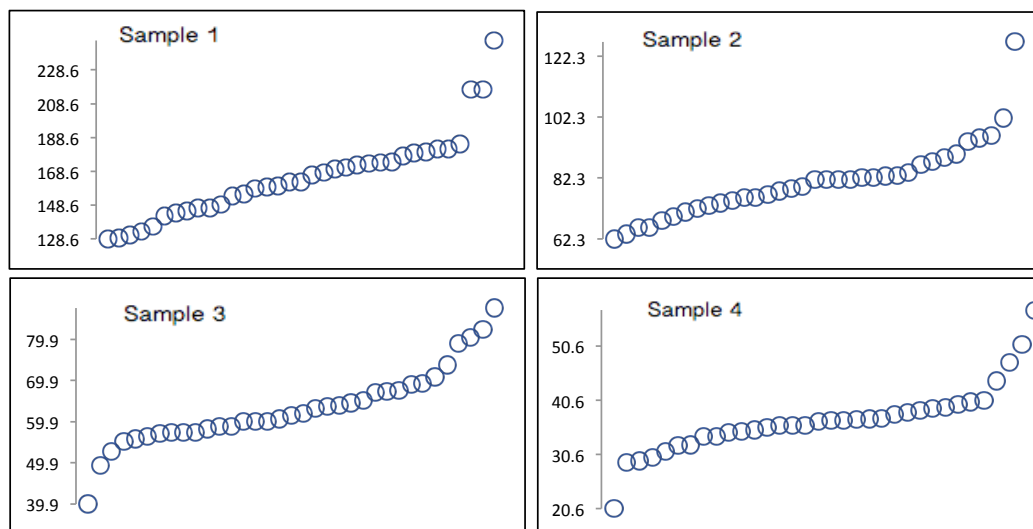
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	35	35	35	34
Median	162	81.7	61.5	36.8
Robust Mean	162	80.1	62.6	36.5
U	4.58	2.26	1.65	0.96
Robust Standard Deviation	21.7	10.7	7.83	4.5
Regression Standard Deviation	28.4	14.0	11.0	6.4
Stability Flag				
Homogeneity Flag				
Standard Deviation Used	28.4	14.0	11.0	6.38
Outliers	0	0	0	1
$ z > 3.0$	0	1	0	1
$2 < z < 3$	1	0	2	2

Methods Used

Method	C36-1	C36-2	C36-3	C36-4
GC/MSE	7	7	7	7
P/T-GCMS	18	18	18	17
HS-GCMS	10	10	10	10

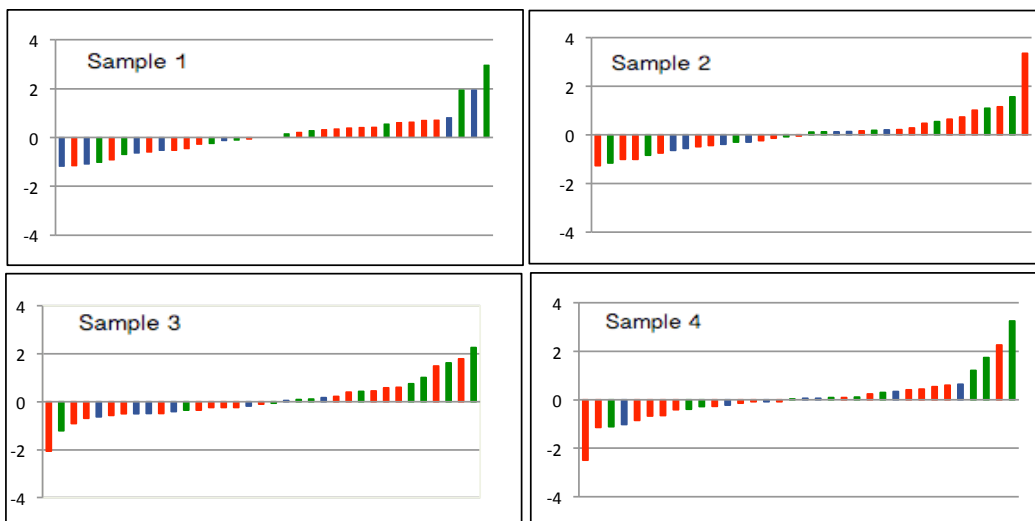
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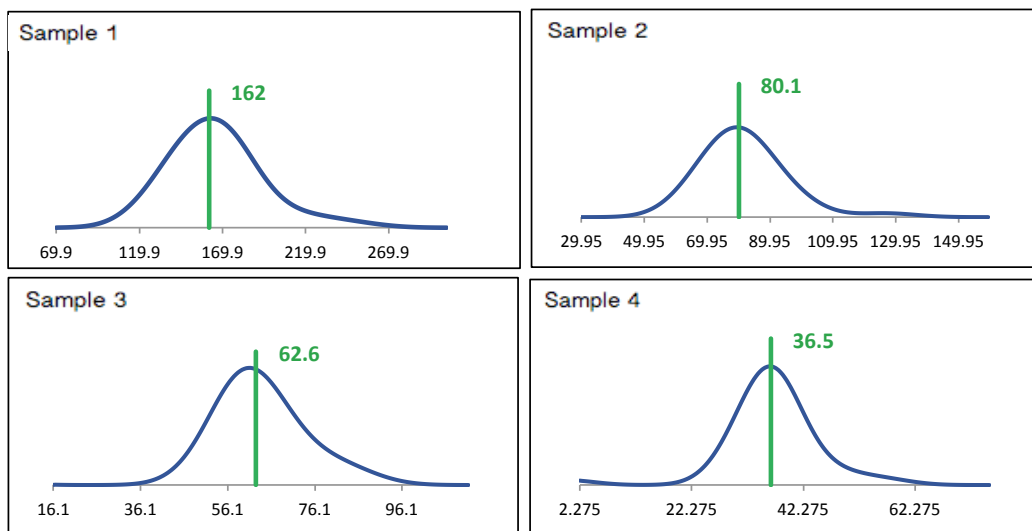
Annex A Summary by Analyte

1,1,2,2-TETRACHLOROETHANE

z-Score Plots



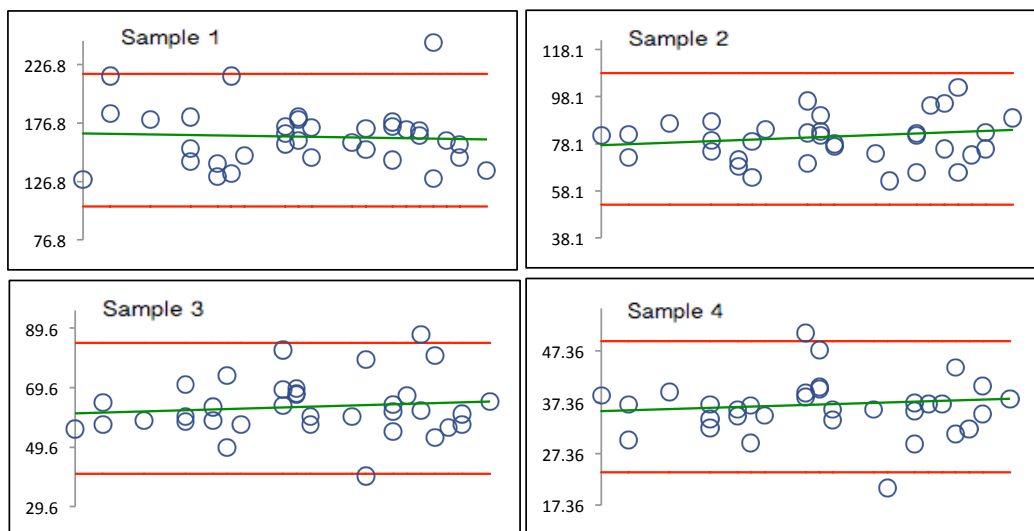
Kernel Density Plots



Annex A Summary by Analyte

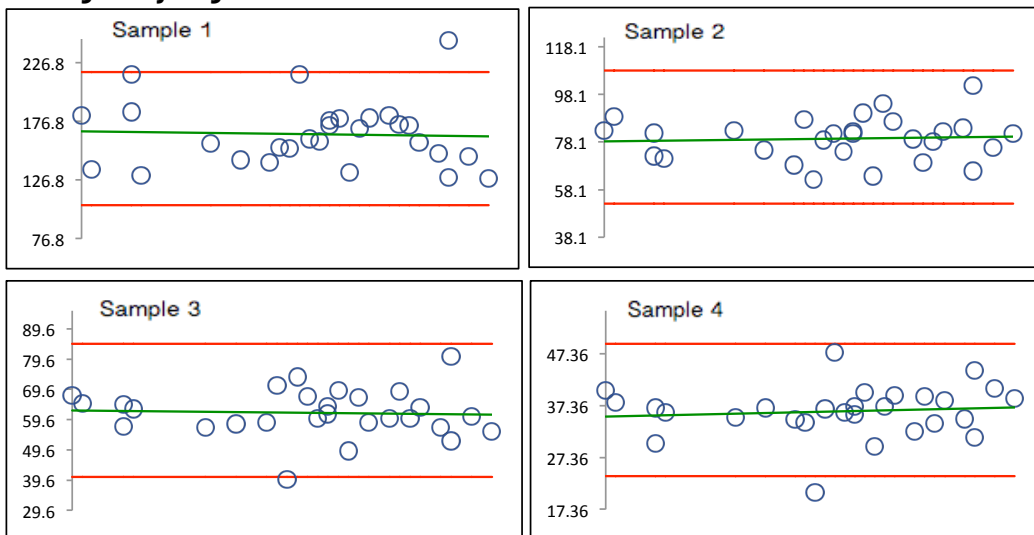
1,1,2,2-TETRACHLOROETHANE

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).

Annex A Summary by Analyte

1,1,2-TRICHLOROETHANE

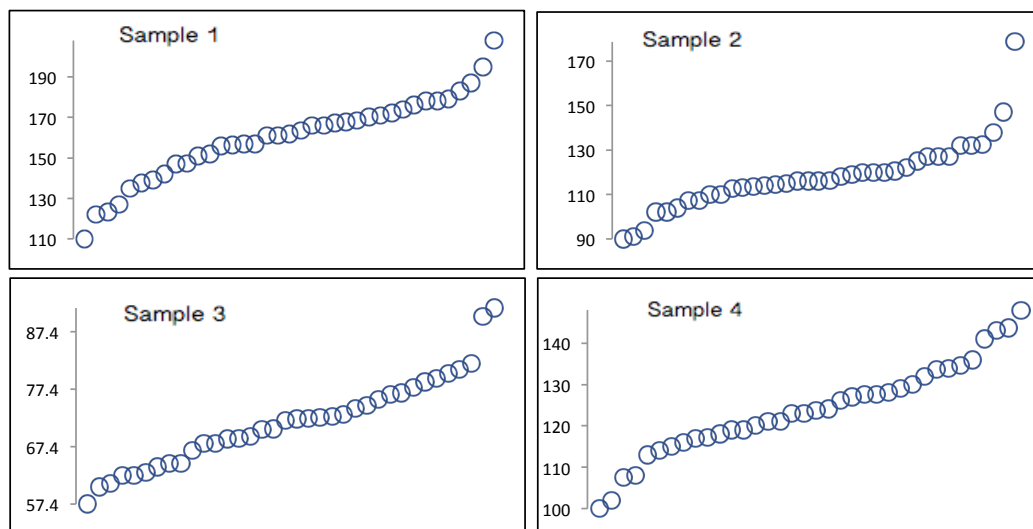
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	37	37	36	36
Median	162	116	72.1	123
Robust Mean	160	117	71.3	124
U	4.09	2.47	1.60	2.35
Robust Standard Deviation	19.9	12.0	7.69	11.3
Regression Standard Deviation	28.0	20.5	12.5	21.7
Stability Flag				
Homogeneity Flag				
Standard Deviation Used	28.0	20.5	12.5	21.70
Outliers	0	0	1	1
$ z > 3.0$	0	0	0	0
$2 < z < 3$	0	1	0	0

Methods Used

Method	C36-1	C36-2	C36-3	C36-4
HS-GCMS	12	12	11	11
P/T-GCMS	18	18	18	18
GC/MSE	7	7	7	7

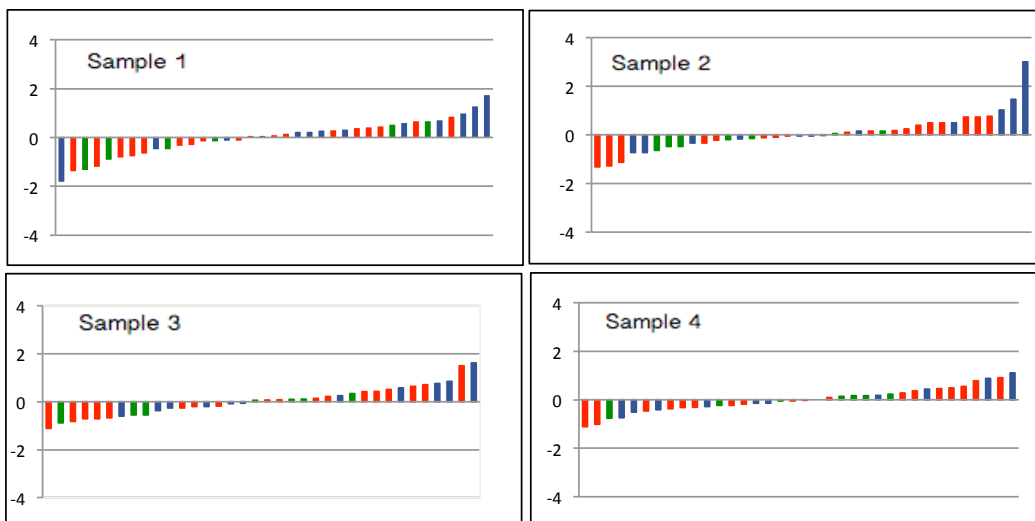
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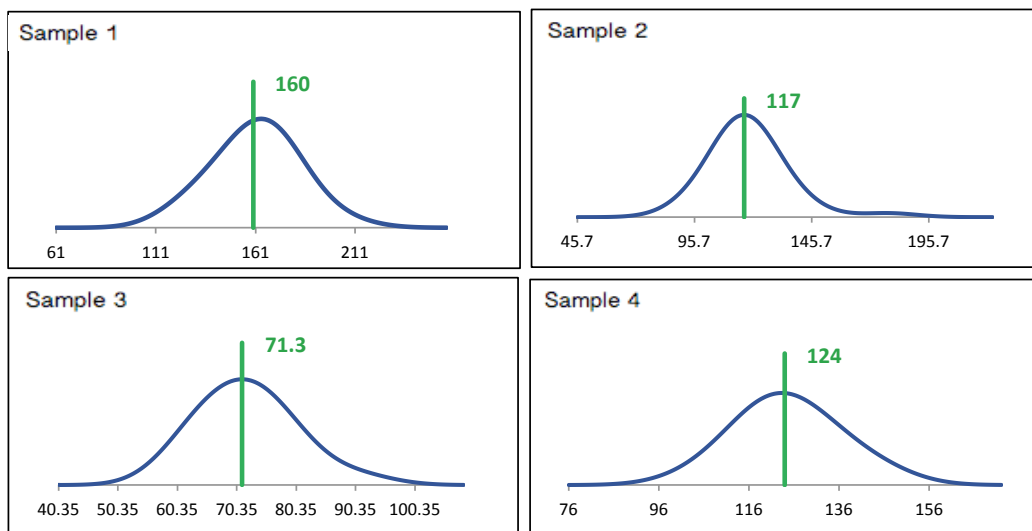
Annex A Summary by Analyte

1,1,2-TRICHLOROETHANE

z-Score Plots



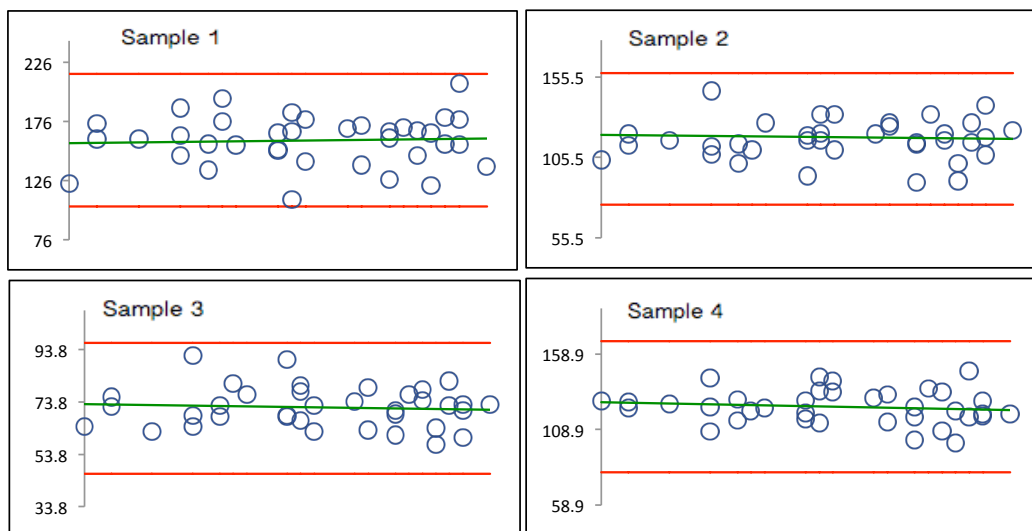
Kernel Density Plots



Annex A Summary by Analyte

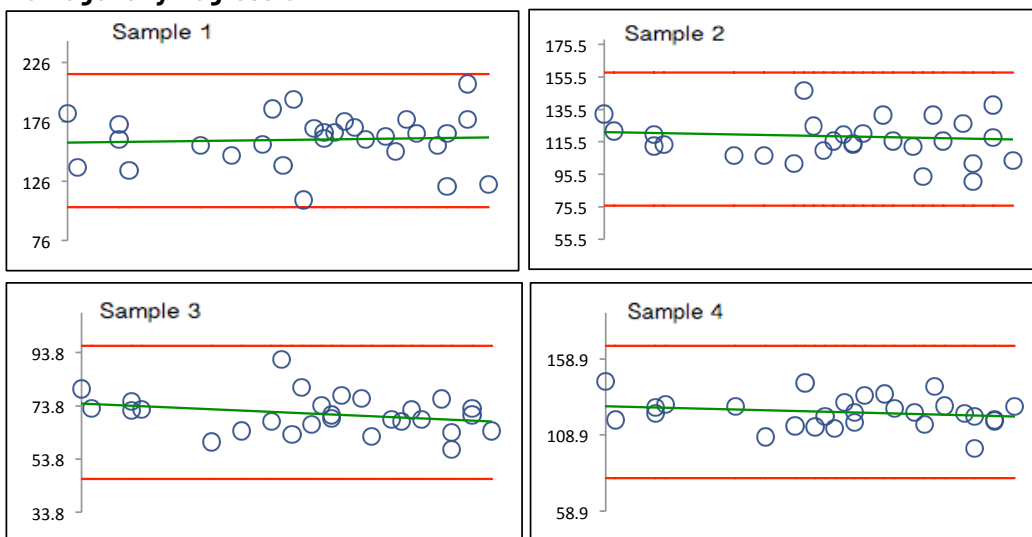
1,1,2-TRICHLOROETHANE

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).

Annex A Summary by Analyte

1,1-DICHLOROETHANE

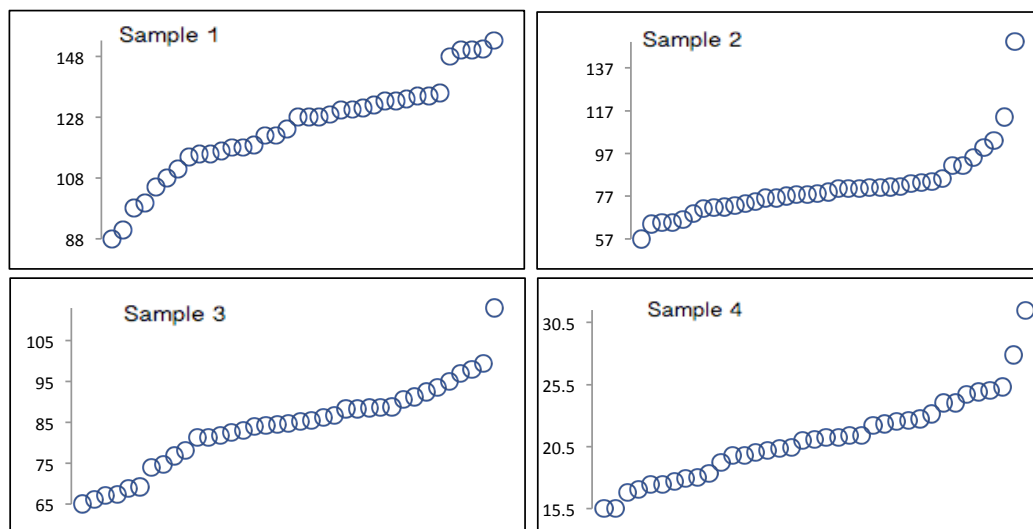
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	36	37	37	37
Median	128	79.0	84.8	21.1
Robust Mean	125	79.1	83.9	20.9
U	3.50	2.18	2.18	0.67
Robust Standard Deviation	16.8	10.6	10.6	3.25
Regression Standard Deviation	25.0	15.8	16.8	4.19
Stability Flag				
Homogeneity Flag				
Standard Deviation Used	25.0	15.8	16.8	4.19
Outliers	1	0	0	0
$ z > 3.0$	0	1	0	0
$2 < z < 3$	0	1	0	1

Methods Used

Method	C36-1	C36-2	C36-3	C36-4
P/T-GCMS	17	18	18	18
HS-GCMS	12	12	12	12
GC/MSE	7	7	7	7

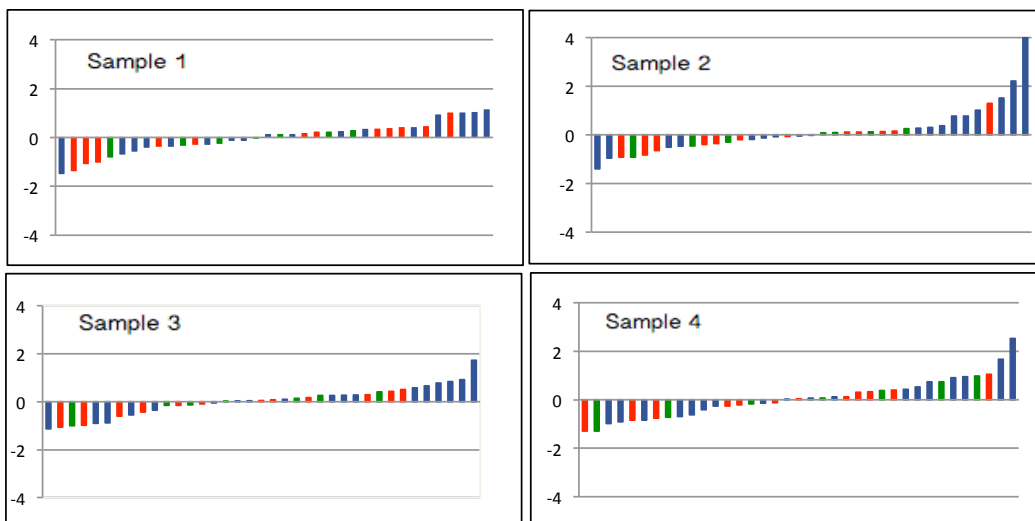
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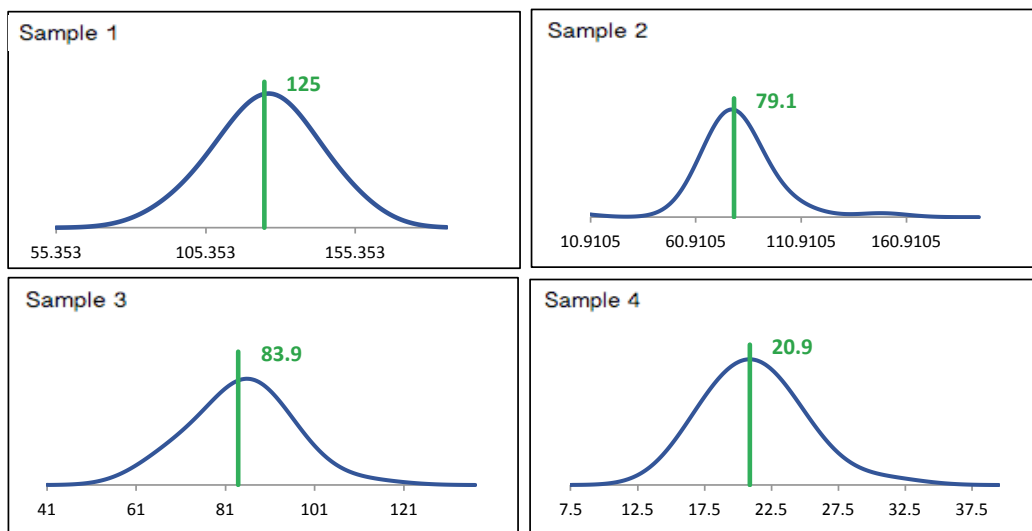
Annex A Summary by Analyte

1,1-DICHLOROETHANE

z-Score Plots



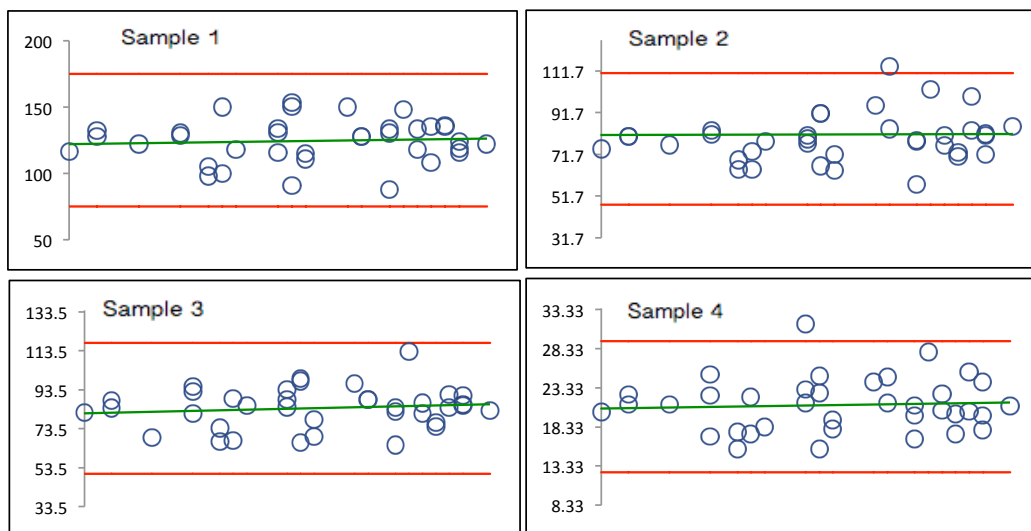
Kernel Density Plots



Annex A Summary by Analyte

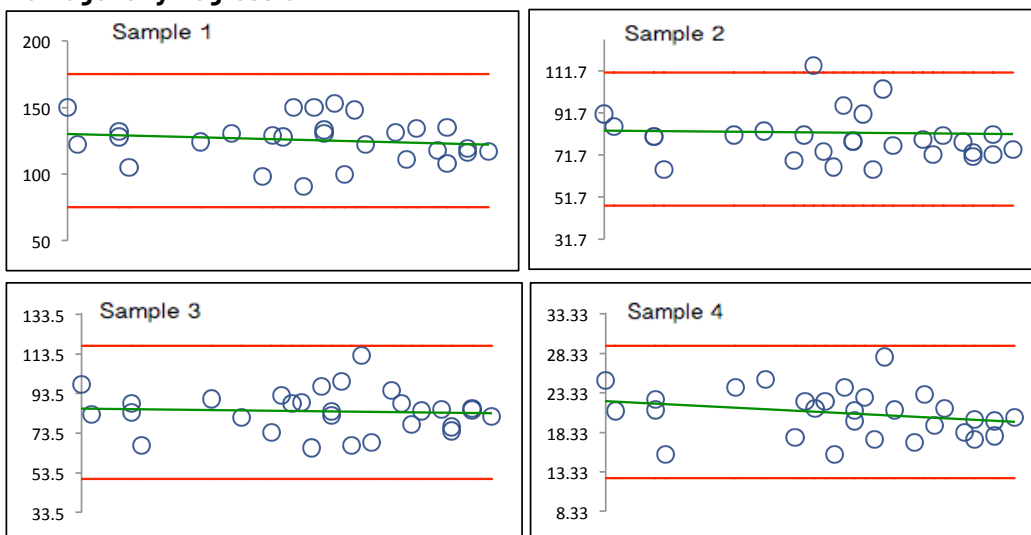
1,1-DICHLOROETHANE

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).

Annex A Summary by Analyte

1,1-DICHLOROETHYLENE

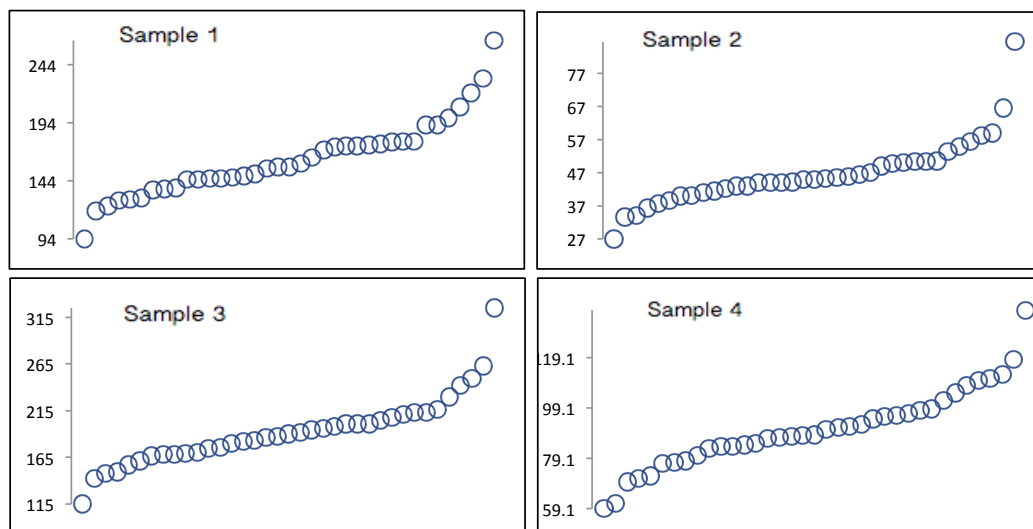
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	37	37	37	37
Median	156	45.0	190	88.4
Robust Mean	161	45.8	190	90.3
U	6.14	1.58	6.21	3.04
Robust Standard Deviation	29.9	7.7	30.2	14.8
Regression Standard Deviation	32.1	9.2	38.0	18.1
Stability Flag				
Homogeneity Flag				
Standard Deviation Used	32.1	9.16	38.0	18.1
Outliers	0	0	0	0
$ z > 3.0$	1	1	1	0
$2 < z < 3$	2	2	0	1

Methods Used

Method	C36-1	C36-2	C36-3	C36-4
P/T-GCMS	18	18	18	18
GC/MSE	7	7	7	7
HS-GCMS	12	12	12	12

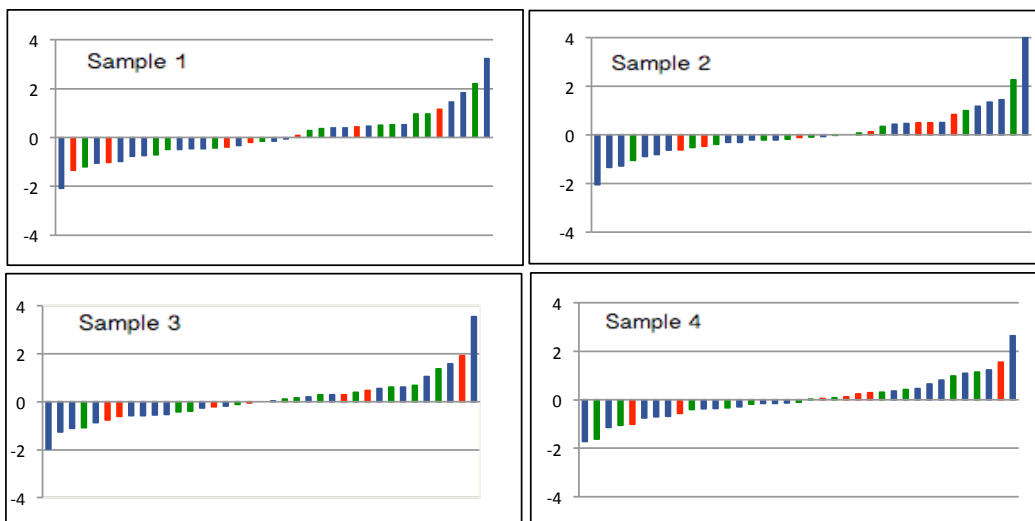
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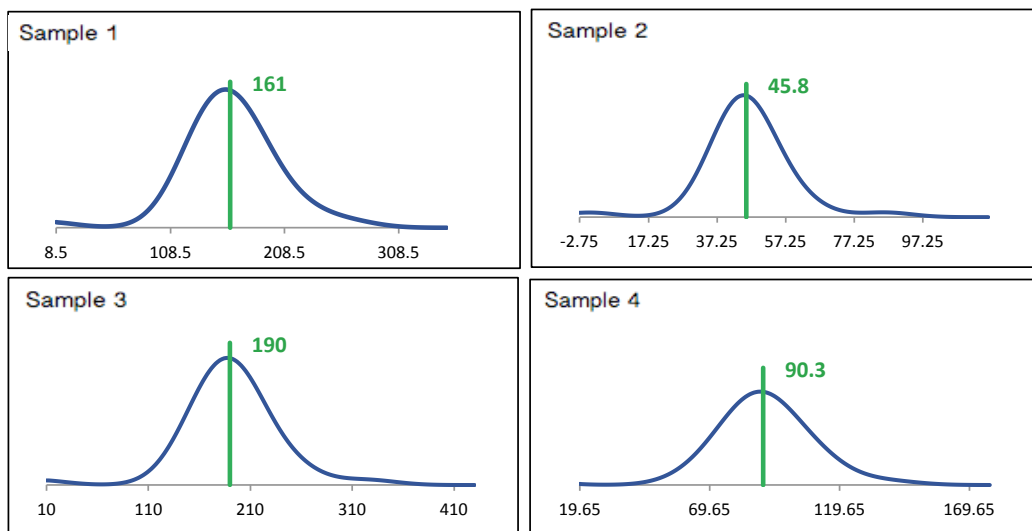
Annex A Summary by Analyte

1,1-DICHLOROETHYLENE

z-Score Plots



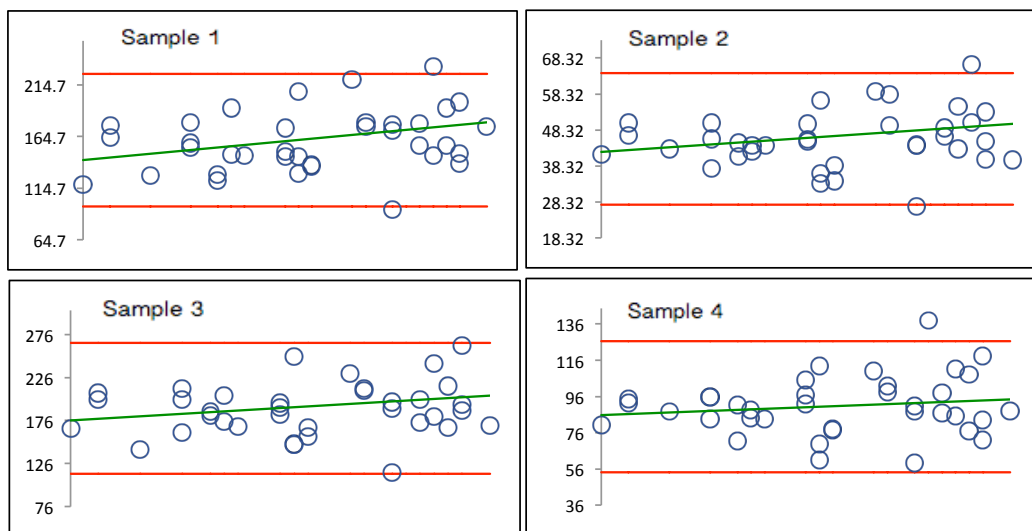
Kernel Density Plots



Annex A Summary by Analyte

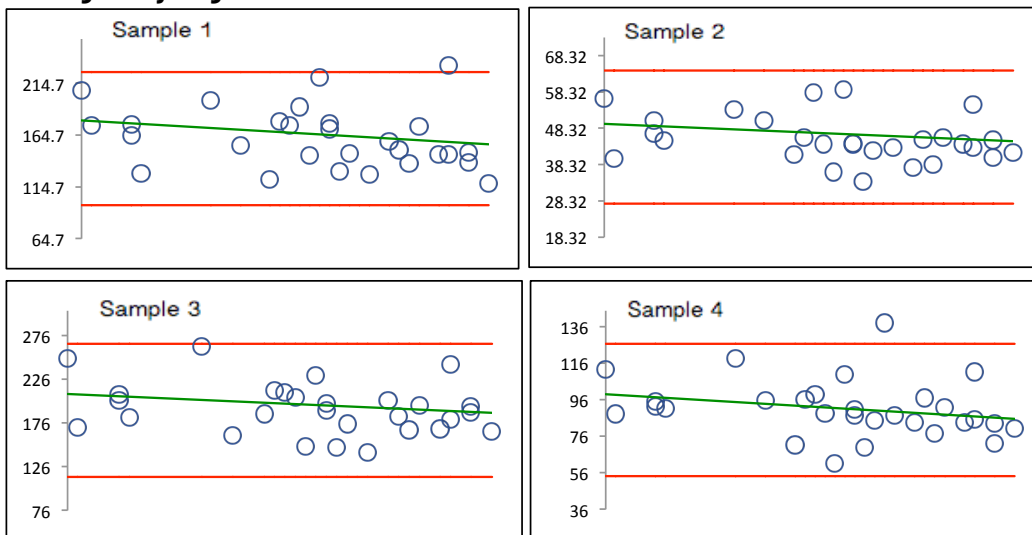
1,1-DICHLOROETHYLENE

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).

Annex A Summary by Analyte

1,2-DICHLOROBENZENE

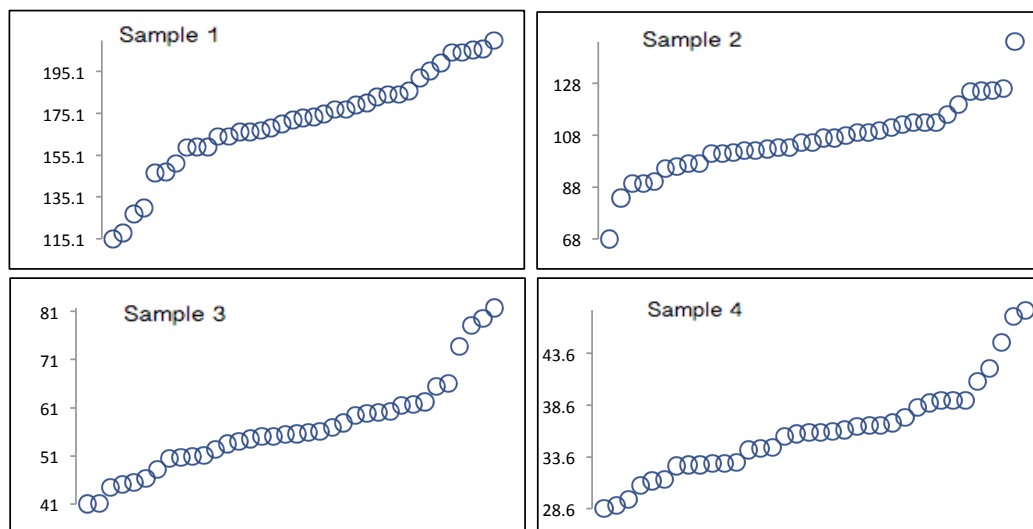
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	37	37	36	36
Median	173	105	55.5	35.9
Robust Mean	173	106	55.9	35.7
U	4.77	2.55	1.78	0.86
Robust Standard Deviation	23.2	12.4	8.56	4.14
Regression Standard Deviation	30.2	18.6	9.78	6.25
Stability Flag				
Homogeneity Flag				
Standard Deviation Used	30.2	18.60	9.78	6.25
Outliers	0	0	1	1
$ z > 3.0$	0	0	0	0
$2 < z < 3$	0	2	3	0

Methods Used

Method	C36-1	C36-2	C36-3	C36-4
GC/MSE	7	7	7	7
P/T-GCMS	18	18	17	17
HS-GCMS	12	12	12	12

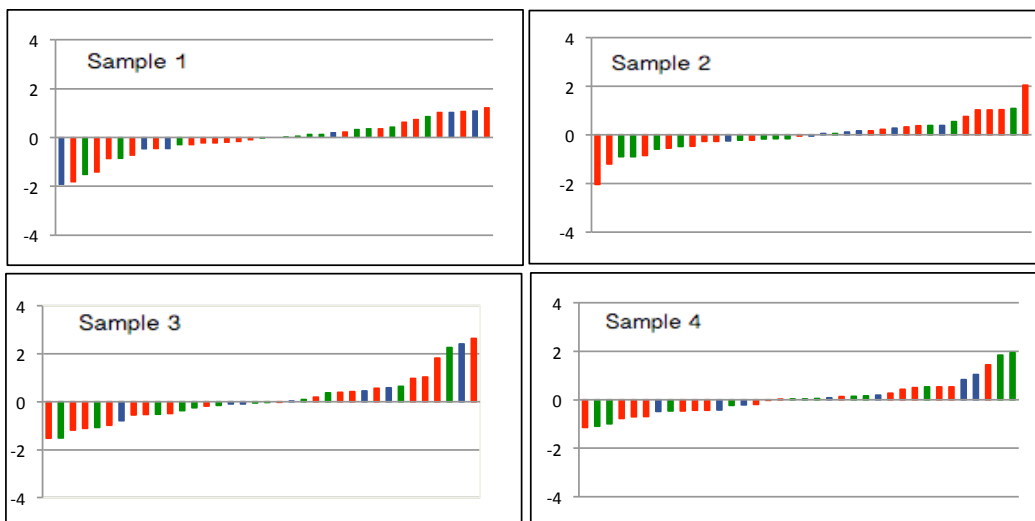
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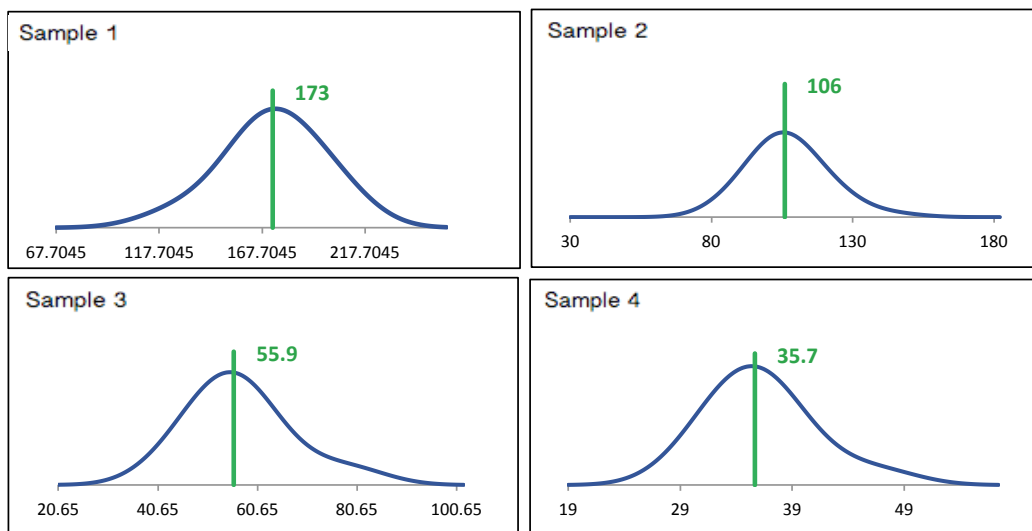
Annex A Summary by Analyte

1,2-DICHLOROBENZENE

z-Score Plots



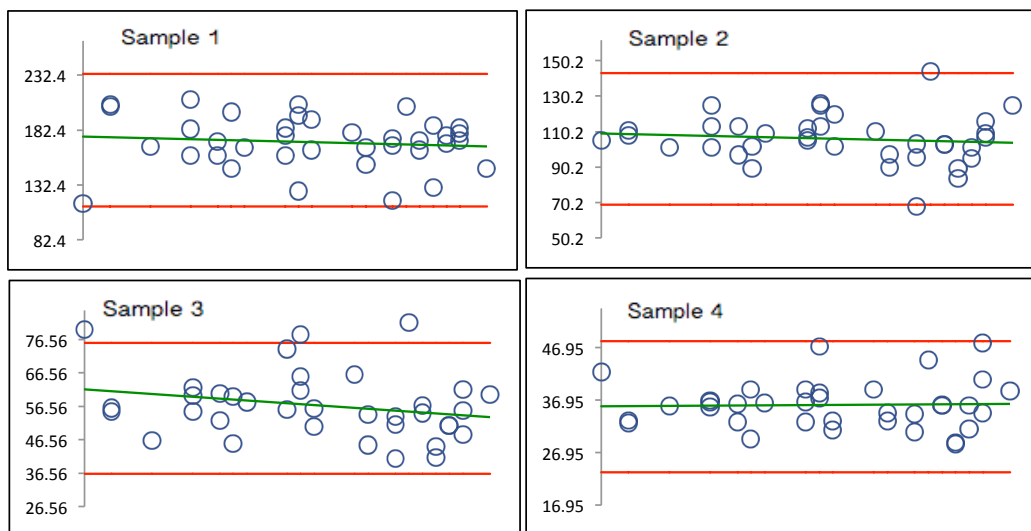
Kernel Density Plots



Annex A Summary by Analyte

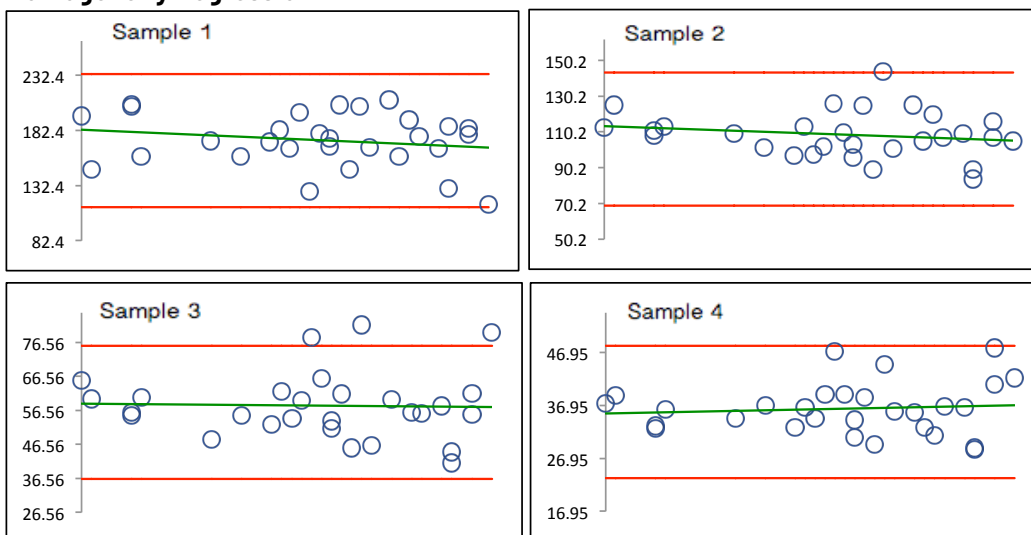
1,2-DICHLOROBENZENE

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).

Annex A Summary by Analyte

1,2-DICHLOROETHANE

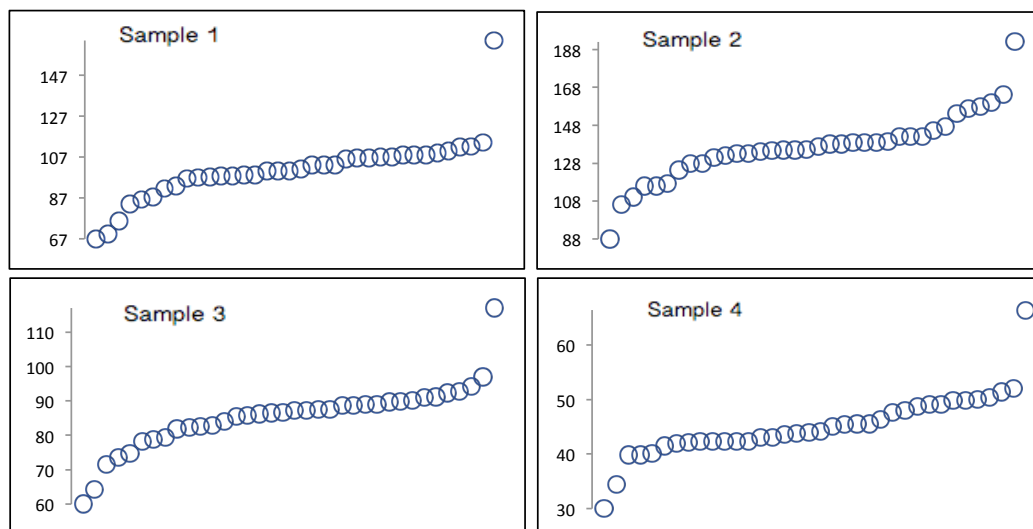
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	36	36	36	36
Median	101	136	86.9	44.1
Robust Mean	101	136	85.7	45.0
U	2.05	3.13	1.40	0.93
Robust Standard Deviation	9.84	15.0	6.73	4.48
Regression Standard Deviation	17.6	23.8	15.0	7.88
Stability Flag				
Homogeneity Flag				
Standard Deviation Used	17.6	23.8	15.0	7.88
Outliers	0	0	0	0
$ z > 3.0$	1	0	0	0
$2 < z < 3$	0	2	1	1

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	6	6	6	6

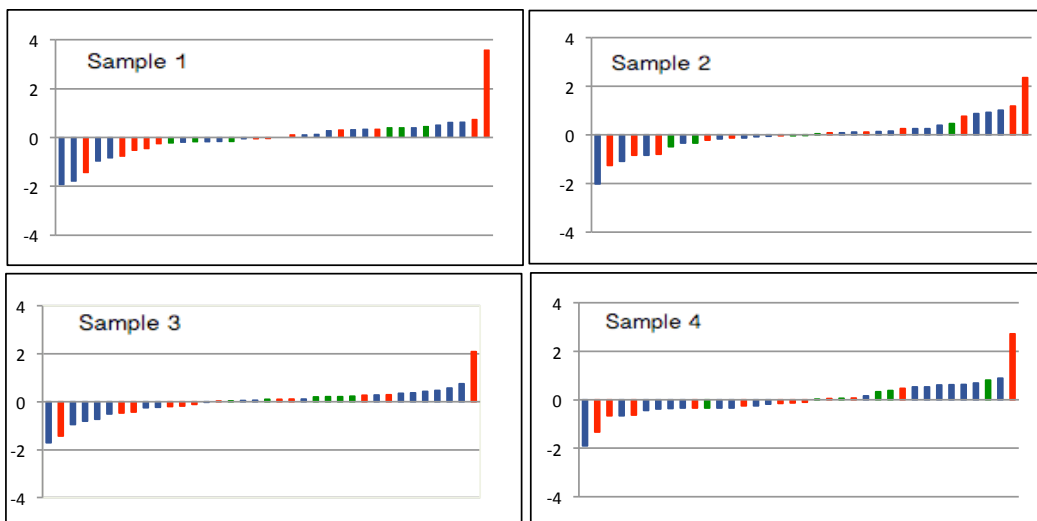
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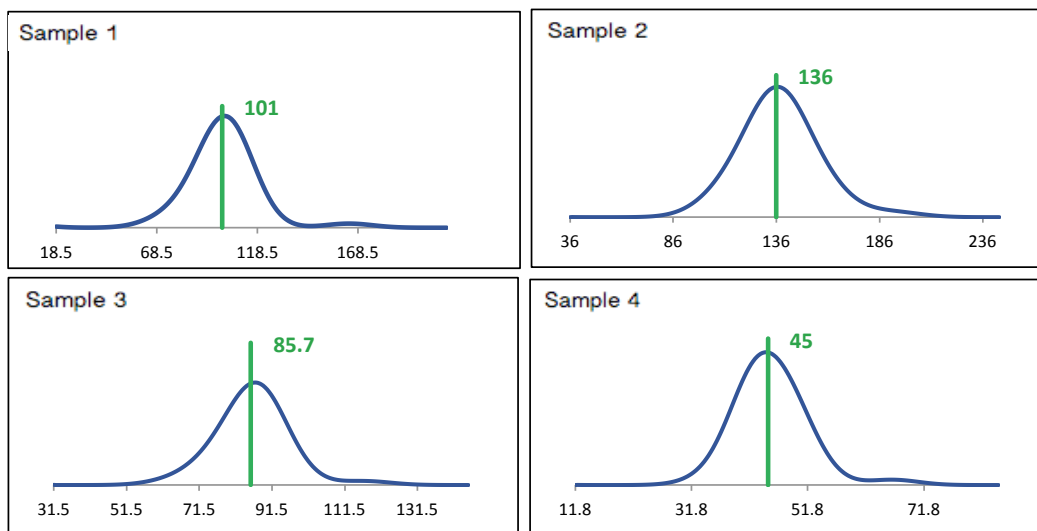
Annex A Summary by Analyte

1,2-DICHLOROETHANE

z-Score Plots



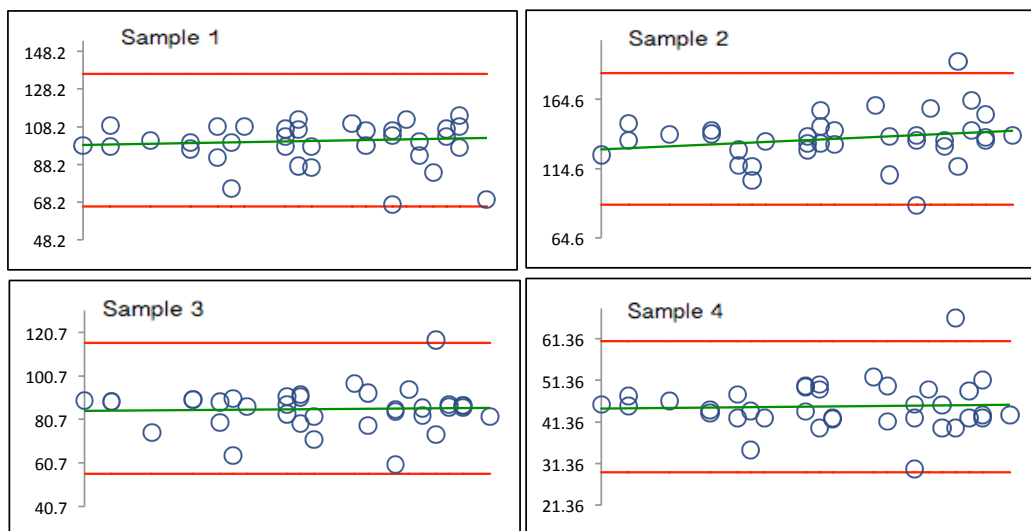
Kernel Density Plots



Annex A Summary by Analyte

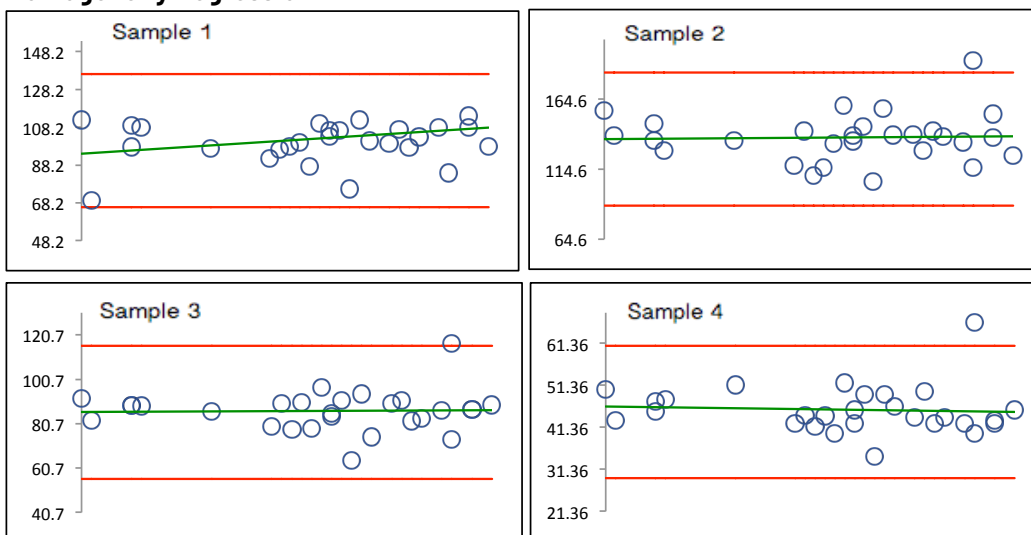
1,2-DICHLOROETHANE

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).

Annex A Summary by Analyte

1,2-DICHLOROPROPANE

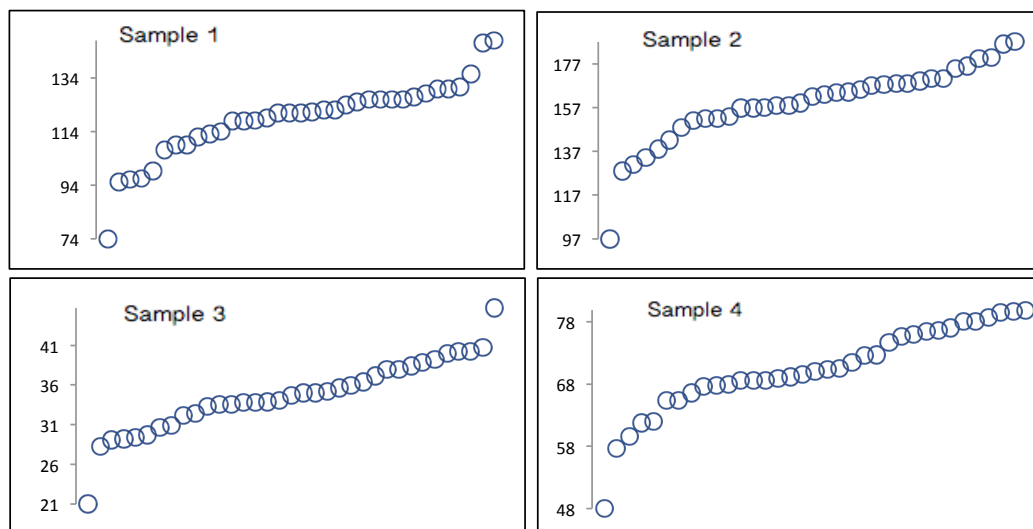
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	35	35	35	35
Median	121	162	34.7	70.0
Robust Mean	120	160	34.7	70.8
U	2.49	3.25	0.921	1.40
Robust Standard Deviation	11.8	15.4	4.36	6.63
Regression Standard Deviation	20.9	28.0	6.08	12.4
Stability Flag				
Homogeneity Flag				
Standard Deviation Used	20.9	28.0	6.08	12.4
Outliers	0	0	0	0
$ z > 3.0$	0	0	0	0
$2 < z < 3$	1	1	1	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

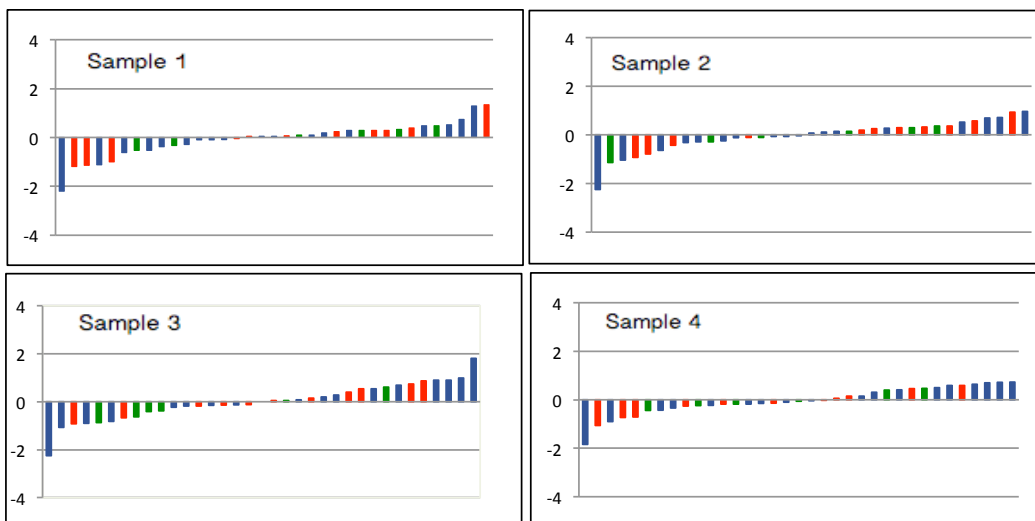
All summary stats and the plots below are based on the data excluding any flagged outliers



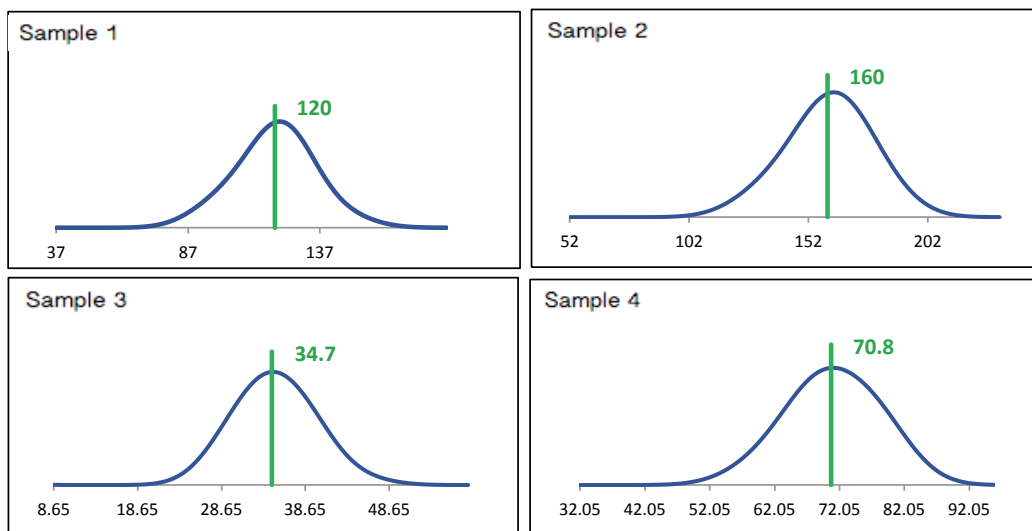
Annex A Summary by Analyte

1,2-DICHLOROPROPANE

z-Score Plots



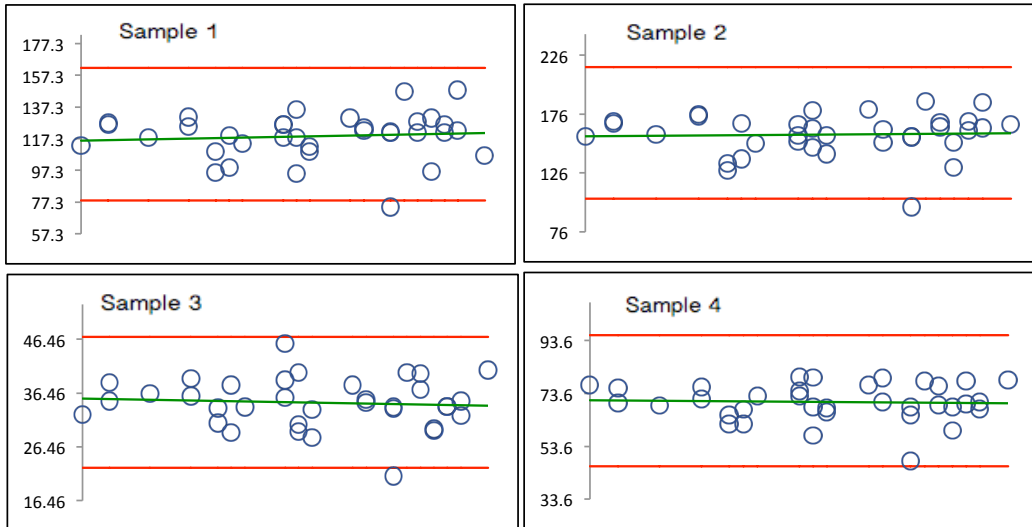
Kernel Density Plots



Annex A Summary by Analyte

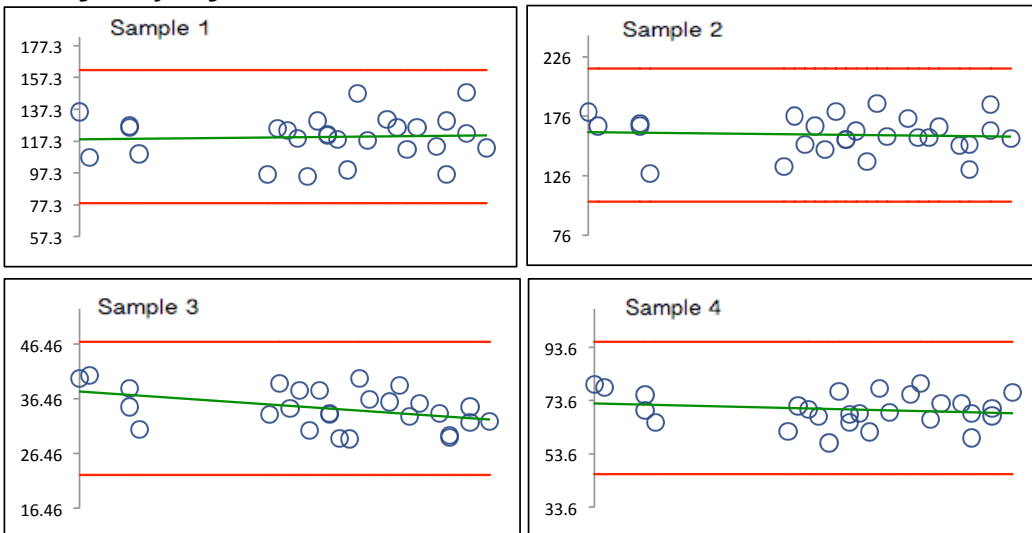
1,2-DICHLOROPROPANE

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).

Annex A Summary by Analyte

1,3-DICHLOROBENZENE

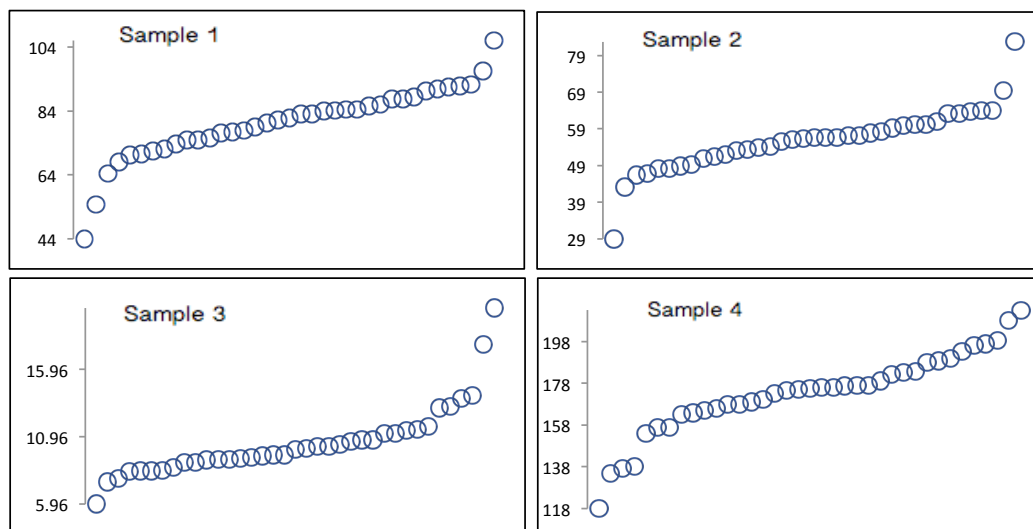
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	37	37	37	37
Median	81.8	56.6	10.0	176
Robust Mean	80.8	55.8	10.2	174
U	1.97	1.39	0.382	3.56
Robust Standard Deviation	9.58	6.76	1.86	17.3
Regression Standard Deviation	14.1	9.77	1.78	30.5
Stability Flag				
Homogeneity Flag				
Standard Deviation Used	14.1	9.77	1.86	30.5
Outliers	0	0	0	0
$ z > 3.0$	0	0	2	0
$2 < z < 3$	1	2	2	0

Methods Used

Method	C36-1	C36-2	C36-3	C36-4
P/T-GCMS	18	18	18	18
GC/MSE	7	7	7	7
HS-GCMS	12	12	12	12

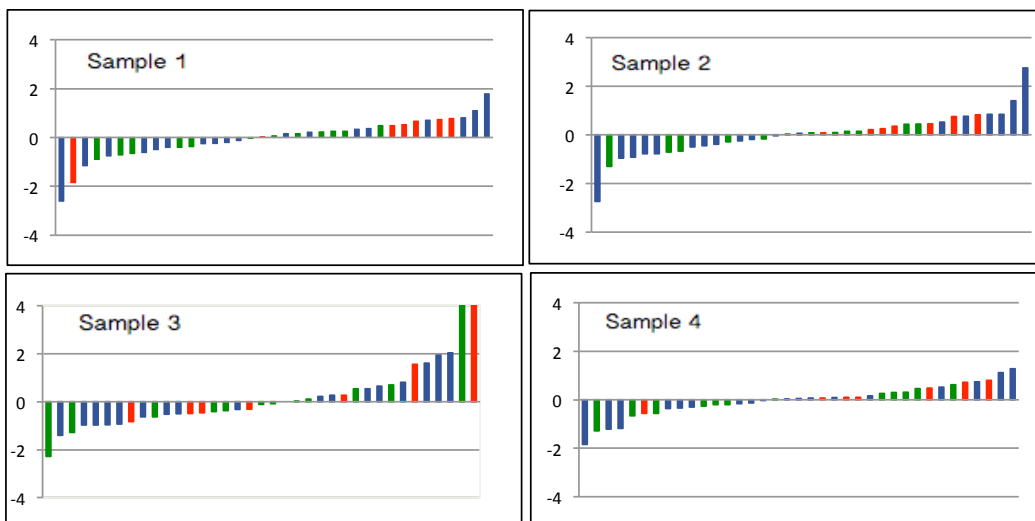
All summary stats and the plots below are based on the data excluding any flagged outliers



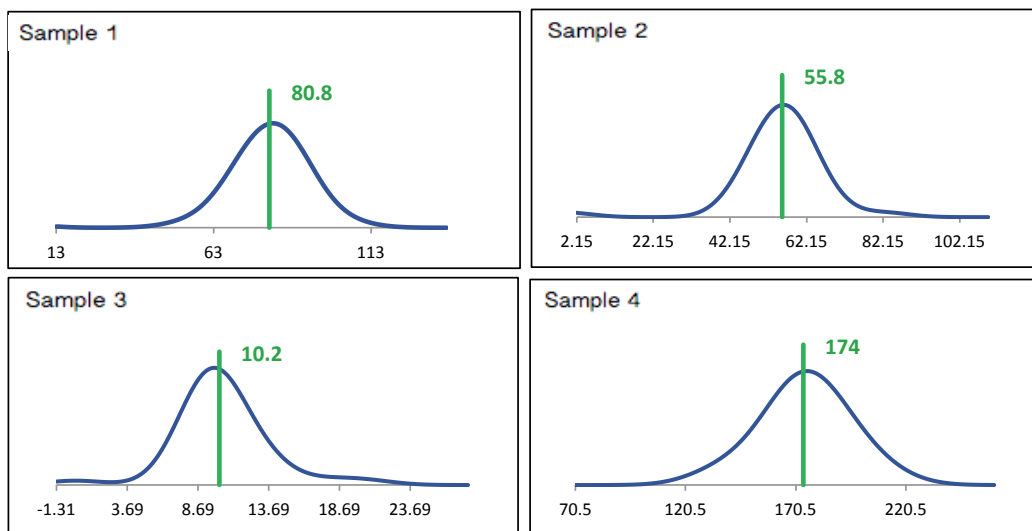
Annex A Summary by Analyte

1,3-DICHLOROBENZENE

z-Score Plots



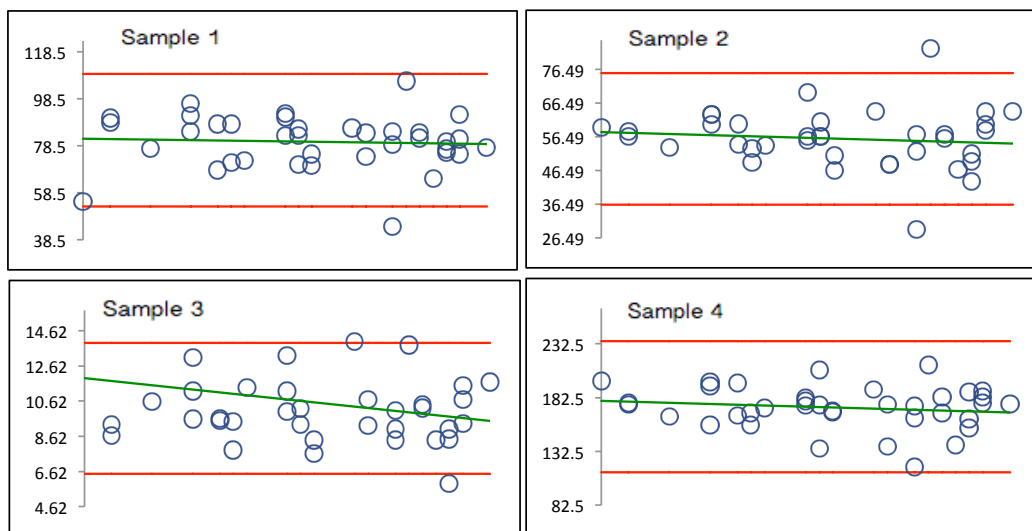
Kernel Density Plots



Annex A Summary by Analyte

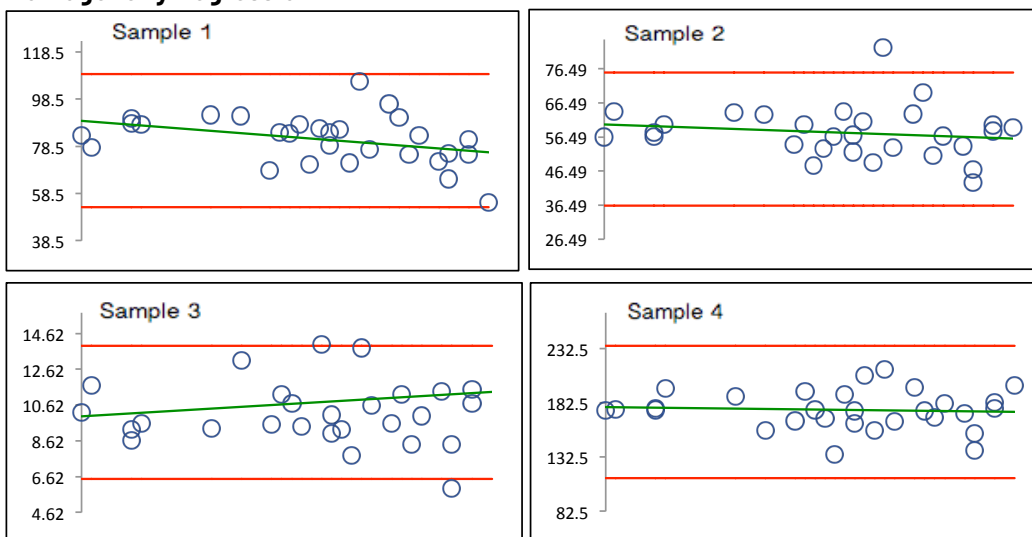
1,3-DICHLOROBENZENE

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).

Annex A Summary by Analyte

1,4-DICHLOROBENZENE

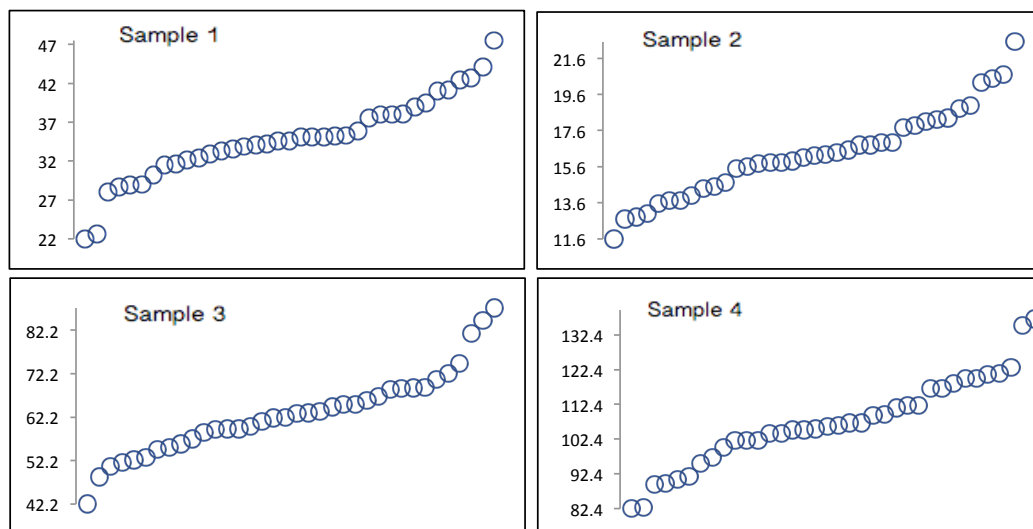
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	37	37	36	37
Median	34.6	16.2	62.6	106
Robust Mean	34.9	16.2	62.5	108
U	1.05	0.51	1.800	2.71
Robust Standard Deviation	5.09	2.48	8.66	13.2
Regression Standard Deviation	6.1	2.84	10.9	18.8
Stability Flag				
Homogeneity Flag				
Standard Deviation Used	6.11	2.84	10.9	18.8
Outliers	0	0	1	0
$ z > 3.0$	0	0	0	0
$2 < z < 3$	3	1	2	0

Methods Used

Method	C36-1	C36-2	C36-3	C36-4
GC/MSE	7	7	7	7
HS-GCMS	12	12	12	12
P/T-GCMS	18	18	17	18

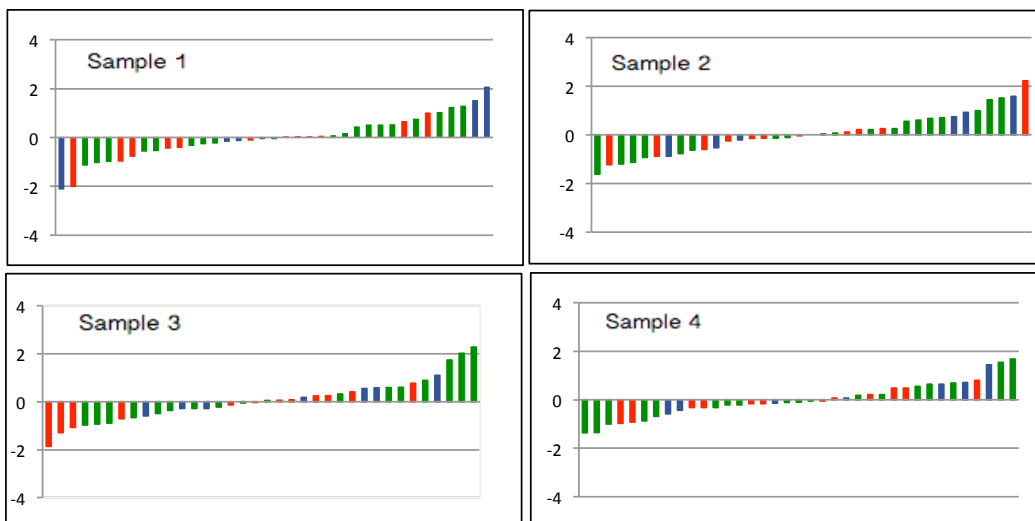
All summary stats and the plots below are based on the data excluding any flagged outliers



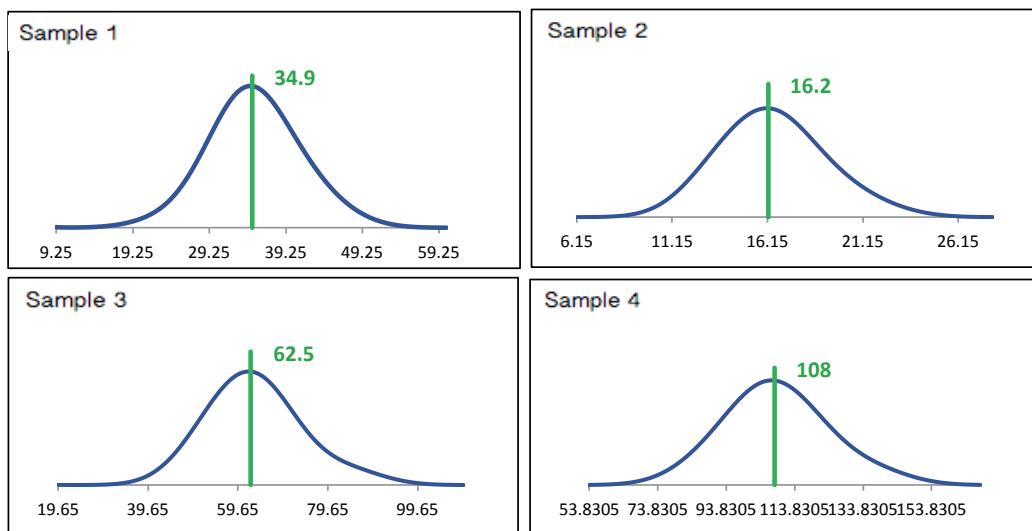
Annex A Summary by Analyte

1,4-DICHLOROBENZENE

z-Score Plots



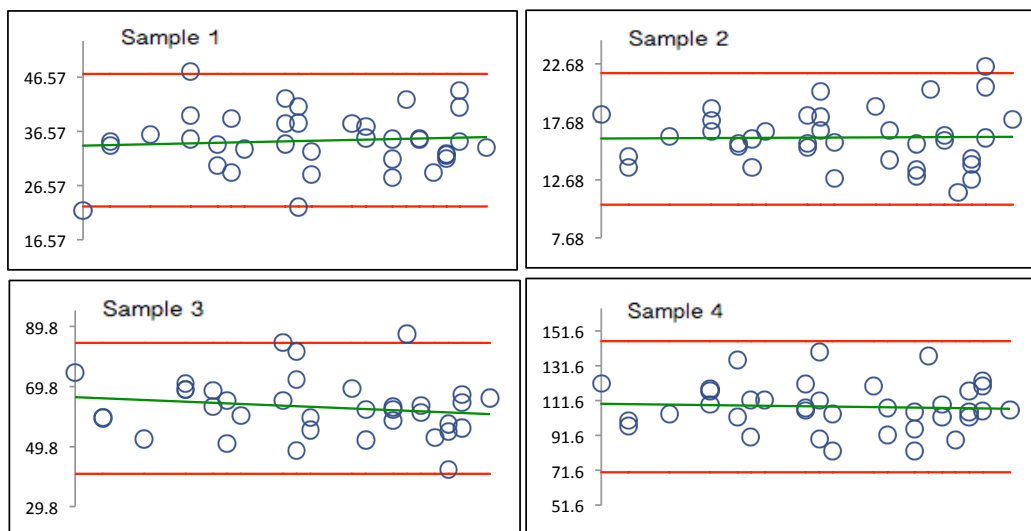
Kernel Density Plots



Annex A Summary by Analyte

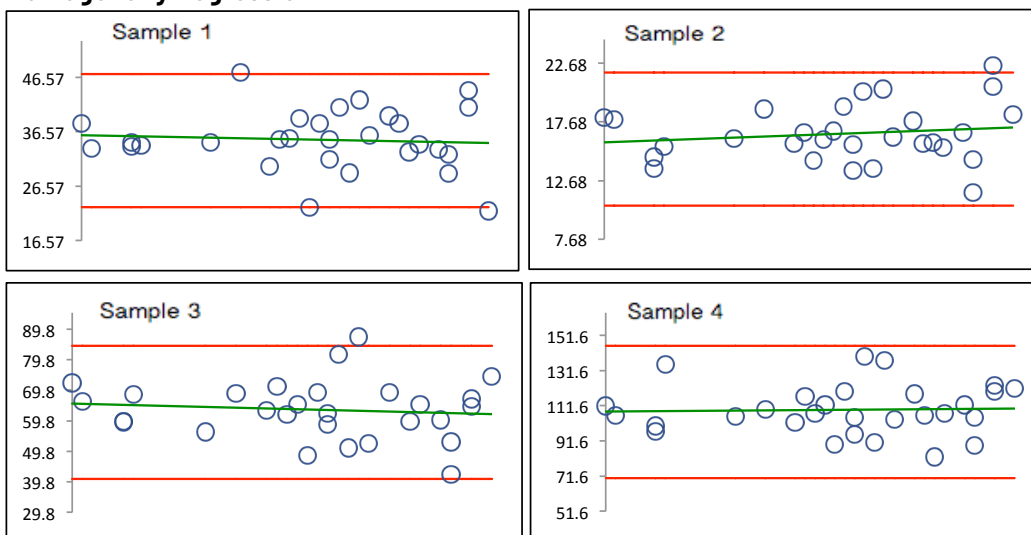
1,4-DICHLOROBENZENE

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).

Annex A Summary by Analyte

ACETONE (2-PROPANONE)

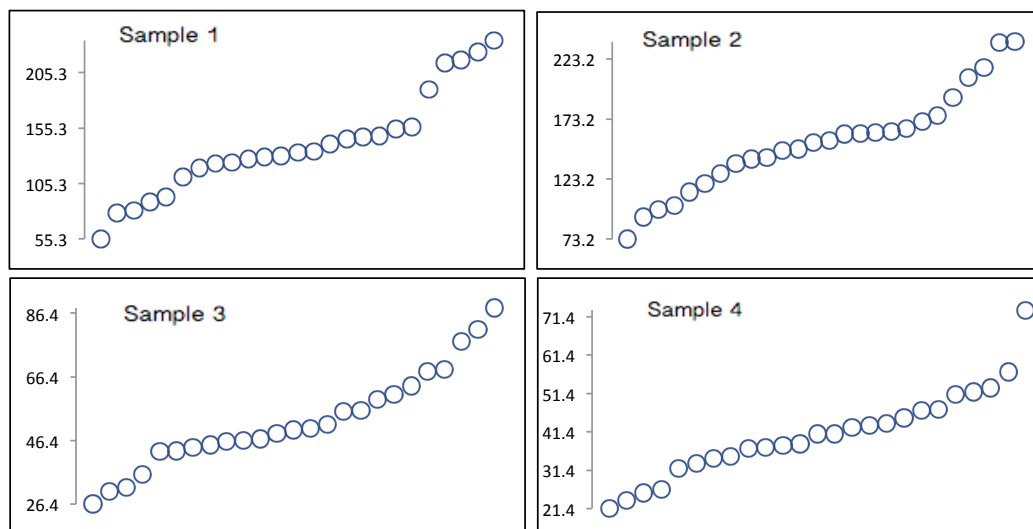
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	25	26	25	25
Median	133	154	49.7	40.9
Robust Mean	138	152	51.9	40.1
U	11.9	10.5	3.90	2.75
Robust Standard Deviation	47.6	42.9	15.6	11.0
Regression Standard Deviation	29.4	32.3	11.8	9.4
Stability Flag	Stability	Stability		
Homogeneity Flag			Homogeneity	Homogeneity
Standard Deviation Used	74.5	72.0	31.9	21.9
Outliers	1	1	1	1
$ 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	16	15	15
GC/MSE	2	2	2	2
HS-GCMS	8	8	8	8

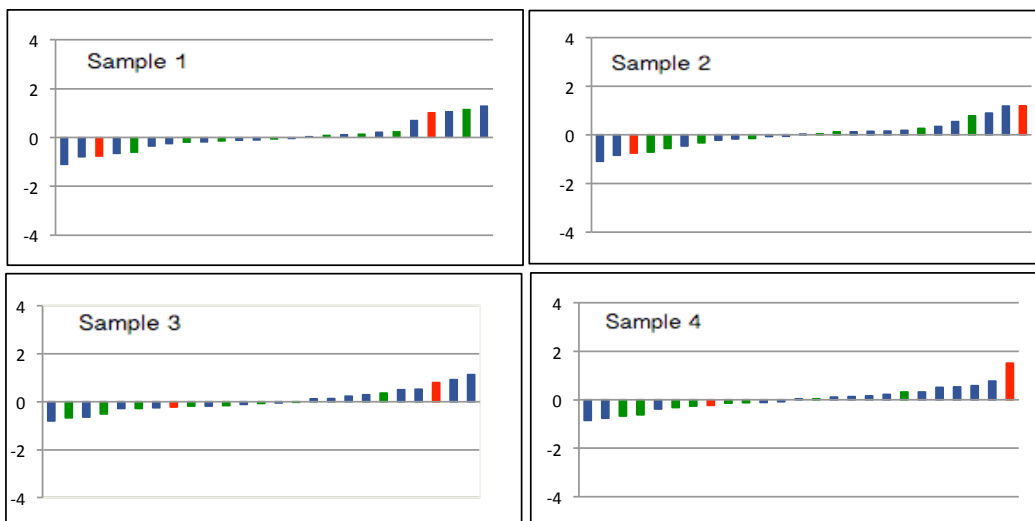
All summary stats and the plots below are based on the data excluding any flagged outliers



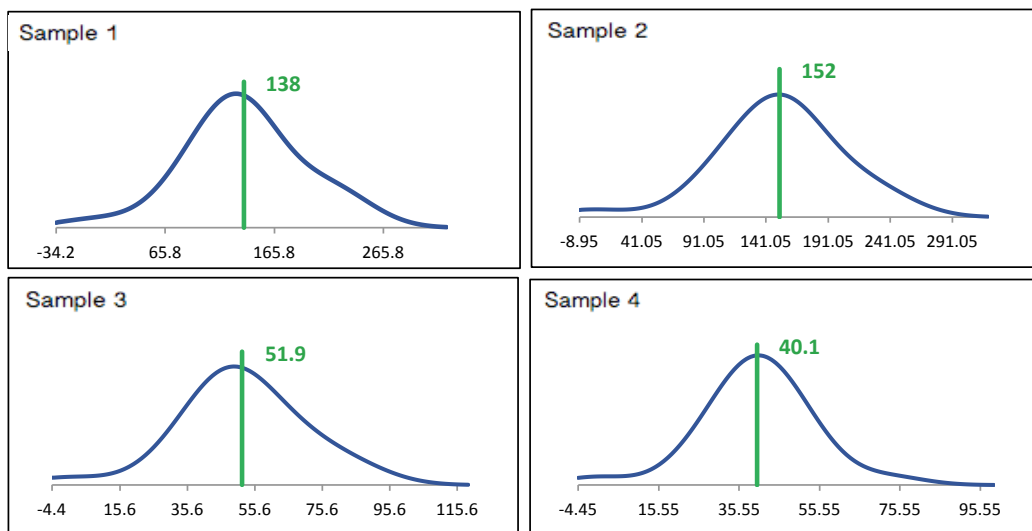
Annex A Summary by Analyte

ACETONE (2-PROPANONE)

z-Score Plots



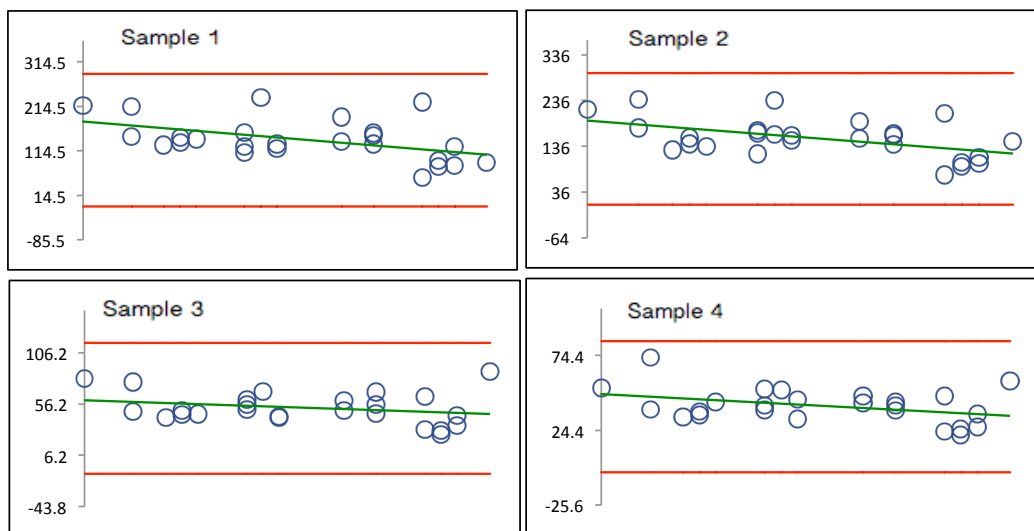
Kernel Density Plots



Annex A Summary by Analyte

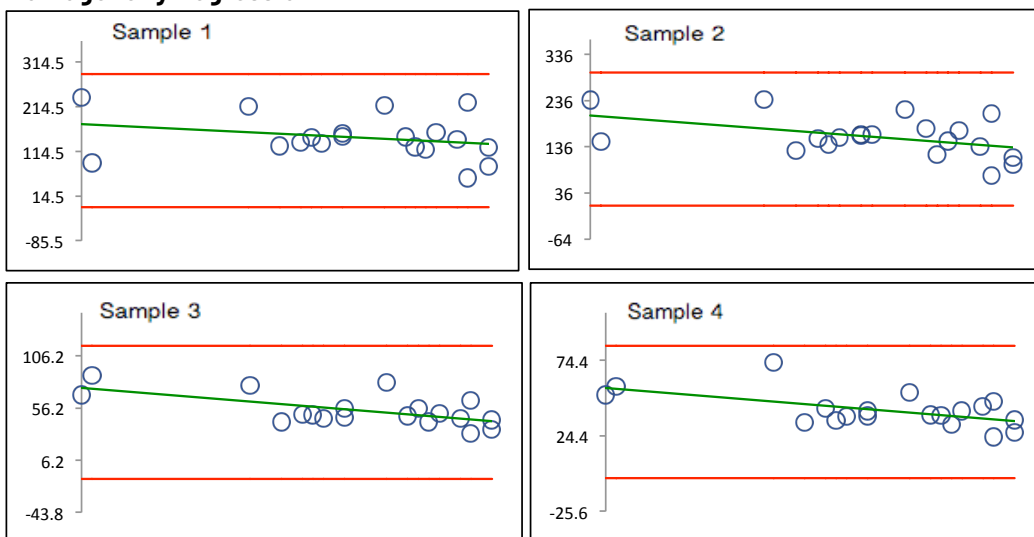
ACETONE (2-PROPANONE)

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).

Annex A Summary by Analyte

BENZENE

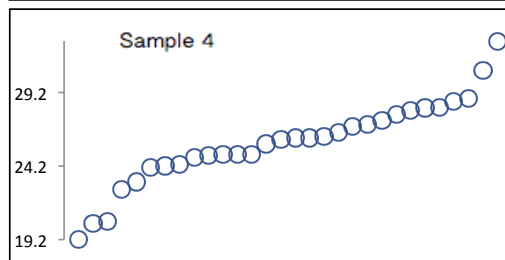
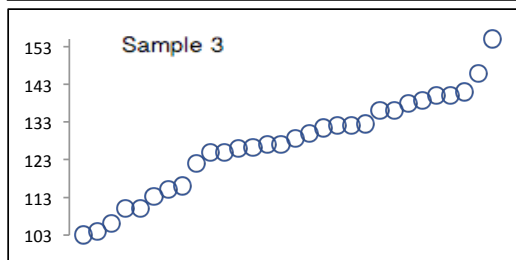
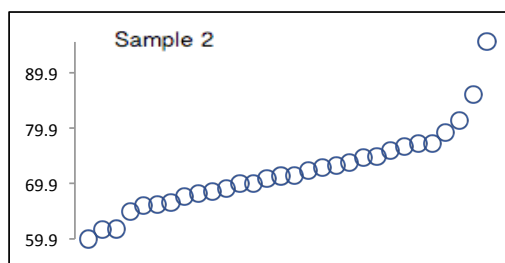
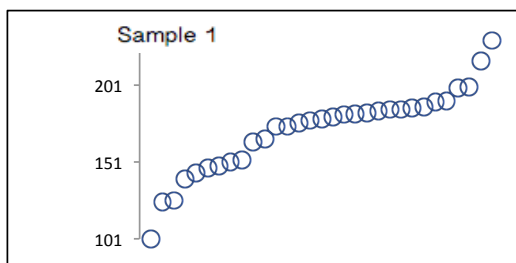
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	31	30	30	30
Median	179	71	128	26.1
Robust Mean	173	72	127	25.9
U	5.6	1.5	3.08	0.57
Robust Standard Deviation	24.9	6.39	13.5	2.50
Regression Standard Deviation	30.2	12.5	22.2	4.53
Stability Flag				
Homogeneity Flag				
Standard Deviation Used	30.2	12.5	22.2	4.53
Outliers	0	1	1	1
$ 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	15	14	14	14
HS-GCMS	9	9	9	9
GC/MSE	6	6	6	6
GC/MSF/HS	1	1	1	1

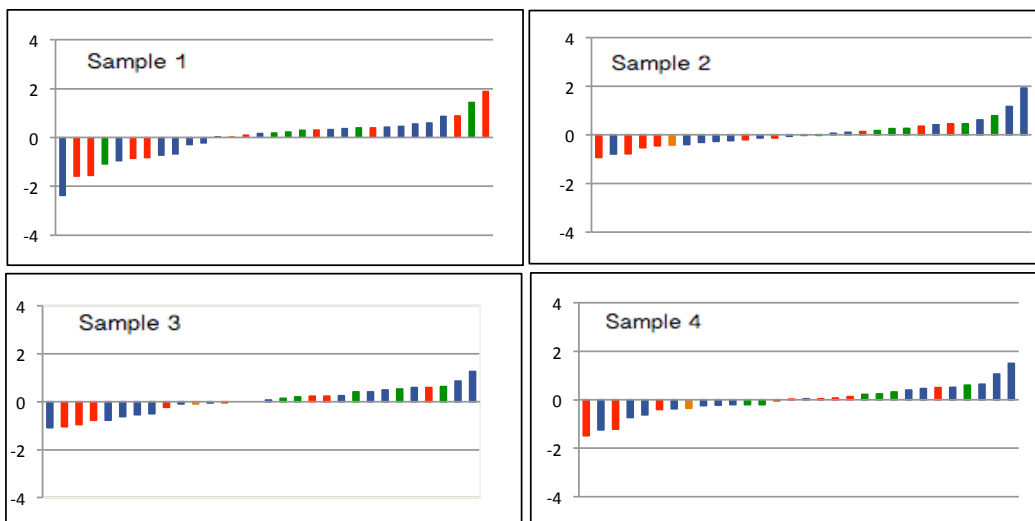
All summary stats and the plots below are based on the data excluding any flagged outliers



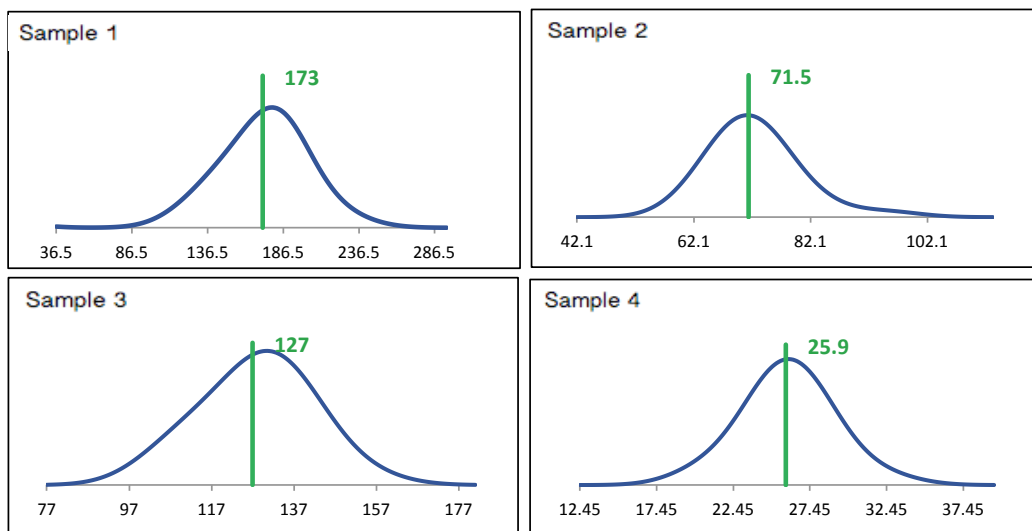
Annex A Summary by Analyte

BENZENE

z-Score Plots



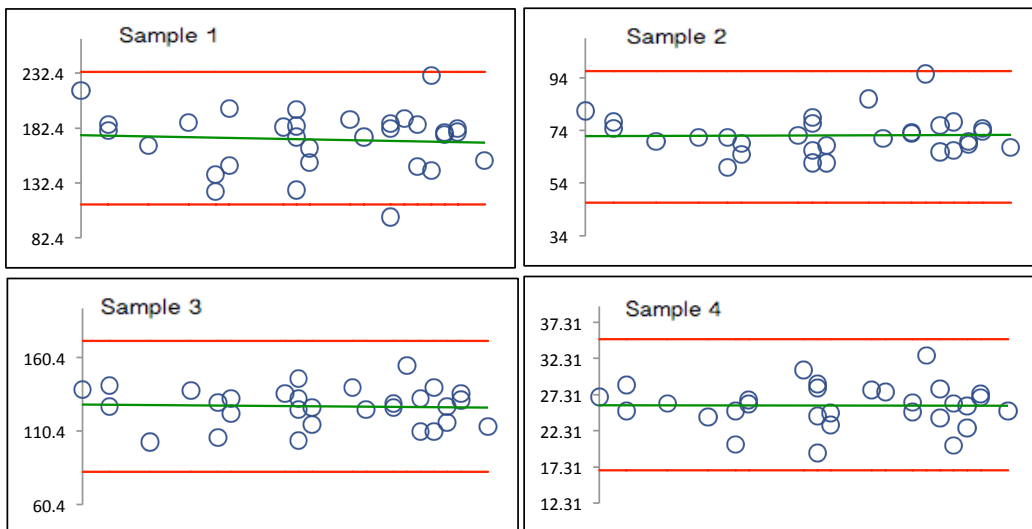
Kernel Density Plots



Annex A Summary by Analyte

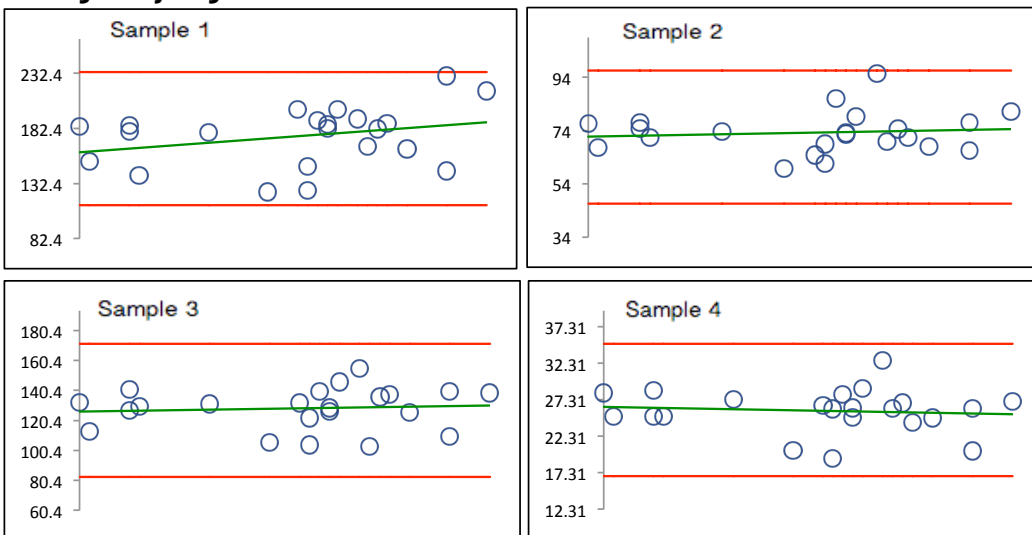
BENZENE

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).

Annex A Summary by Analyte

BROMODICHLOROMETHANE

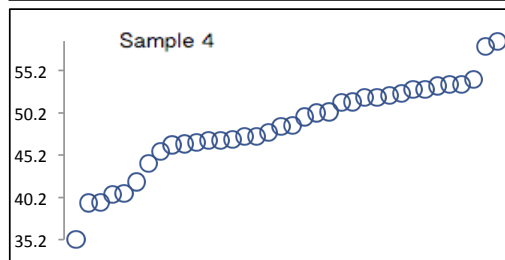
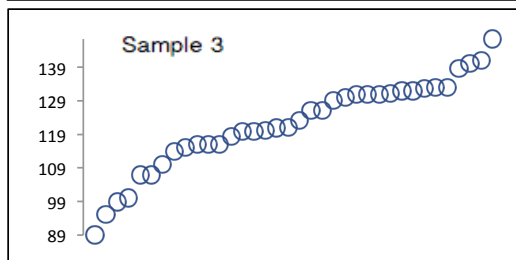
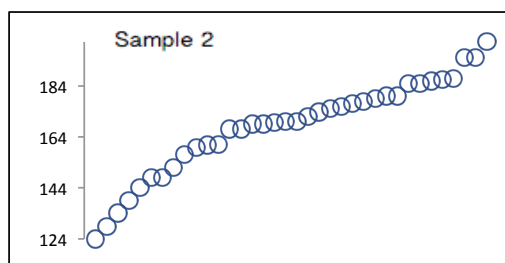
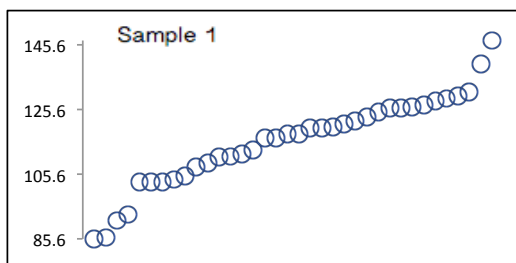
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	36	36	36	36
Median	118	170	122	48.6
Robust Mean	116	169	123	48.7
U	2.7	3.9	2.73	1.08
Robust Standard Deviation	13.1	18.6	13.1	5.19
Regression Standard Deviation	20.3	29.6	21.5	8.52
Stability Flag				
Homogeneity Flag				
Standard Deviation Used	20.3	29.6	21.5	8.52
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
P/T-GCMS	18	18	18	18
HS-GCMS	12	12	12	12

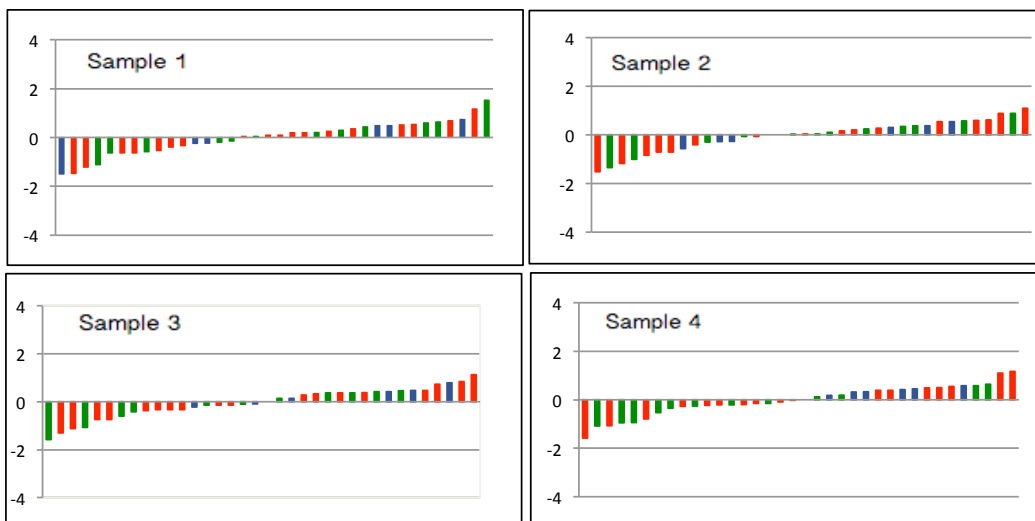
All summary stats and the plots below are based on the data excluding any flagged outliers



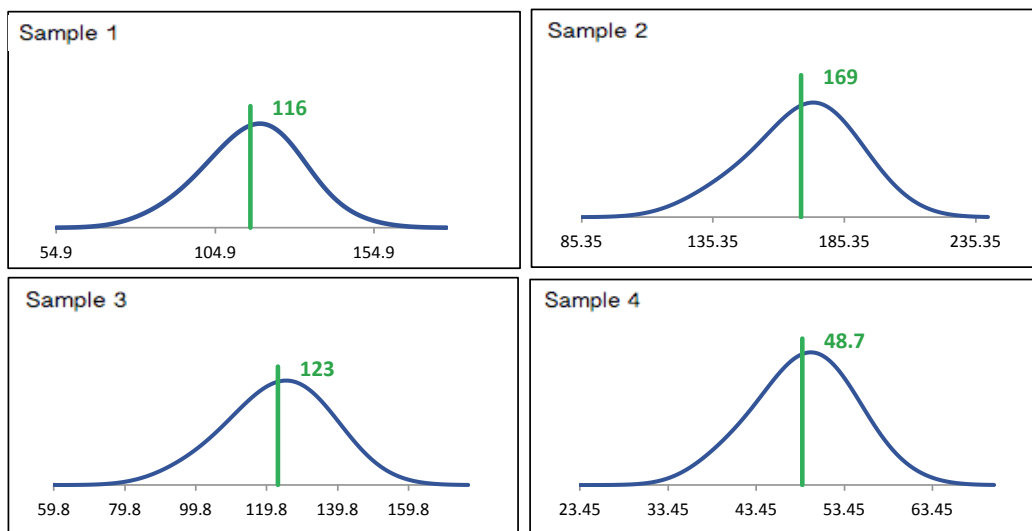
Annex A Summary by Analyte

BROMODICHLOROMETHANE

z-Score Plots



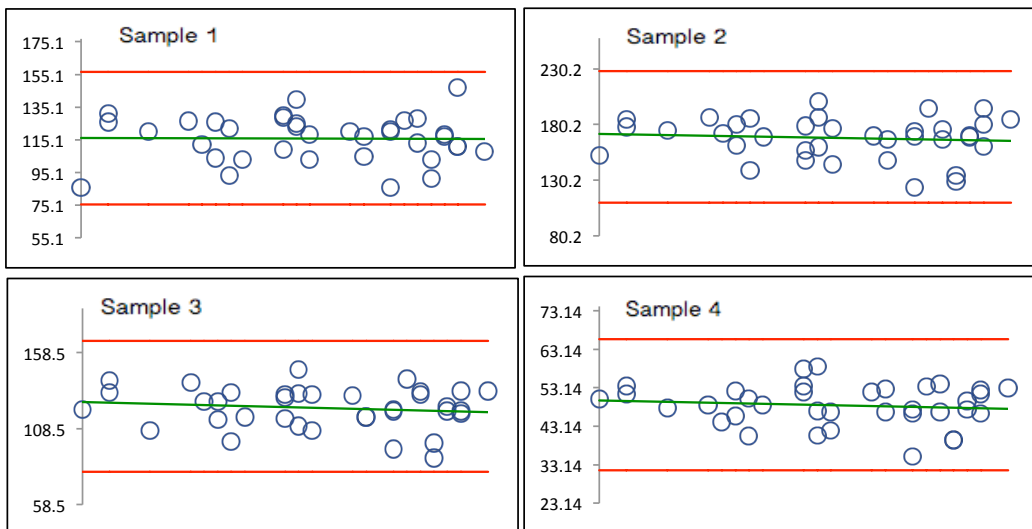
Kernel Density Plots



Annex A Summary by Analyte

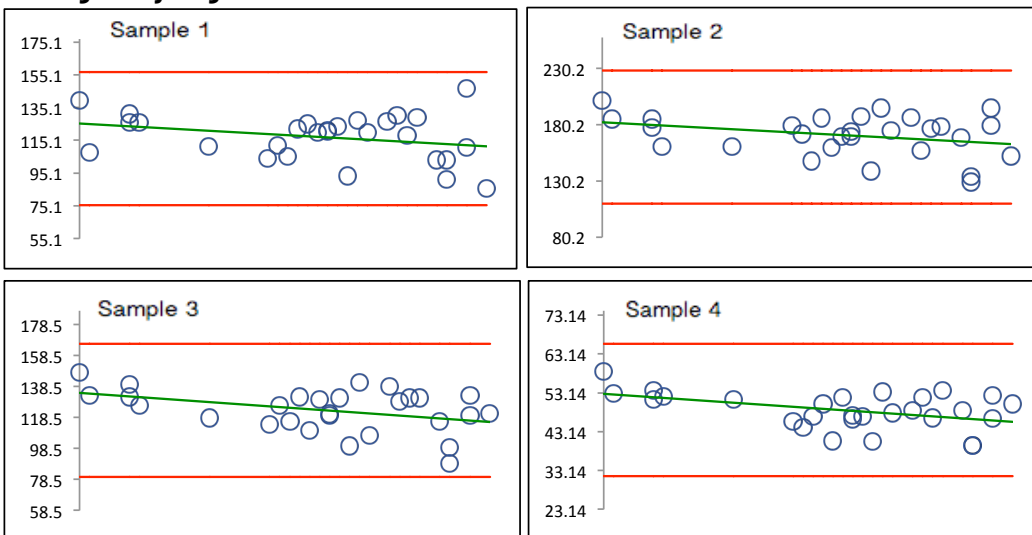
BROMODICHLOROMETHANE

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).

Annex A Summary by Analyte

BROMOFORM

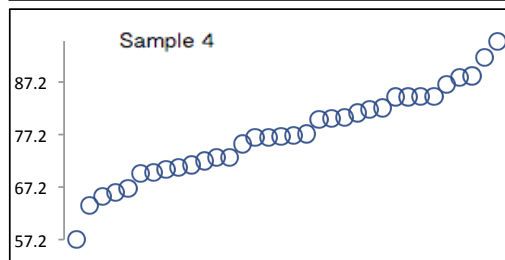
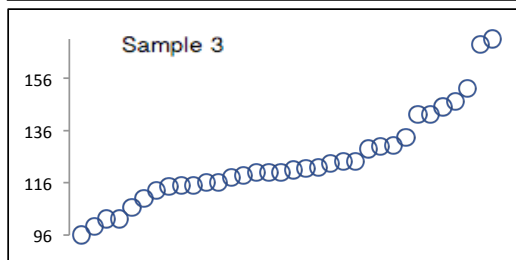
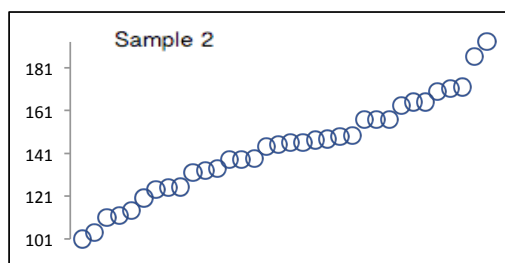
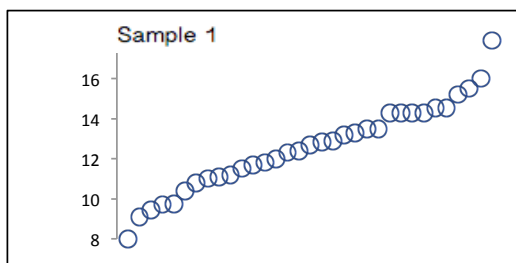
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	33	34	34	34
Median	12.7	146	121	76.9
Robust Mean	12.6	143	123	77.2
U	0.49	5.0	3.47	1.89
Robust Standard Deviation	2.26	23.5	16.2	8.81
Regression Standard Deviation	2.20	25.1	21.5	13.5
Stability Flag				
Homogeneity Flag				
Standard Deviation Used	2.26	25.1	21.5	13.5
Outliers	0	0	0	0
$ z > 3.0$	0	0	0	0
$2 < z < 3$	2	0	2	0

Methods Used

Method	C36-1	C36-2	C36-3	C36-4
P/T-GCMS	17	18	18	18
HS-GCMS	11	11	11	11
GC/MSE	5	5	5	5

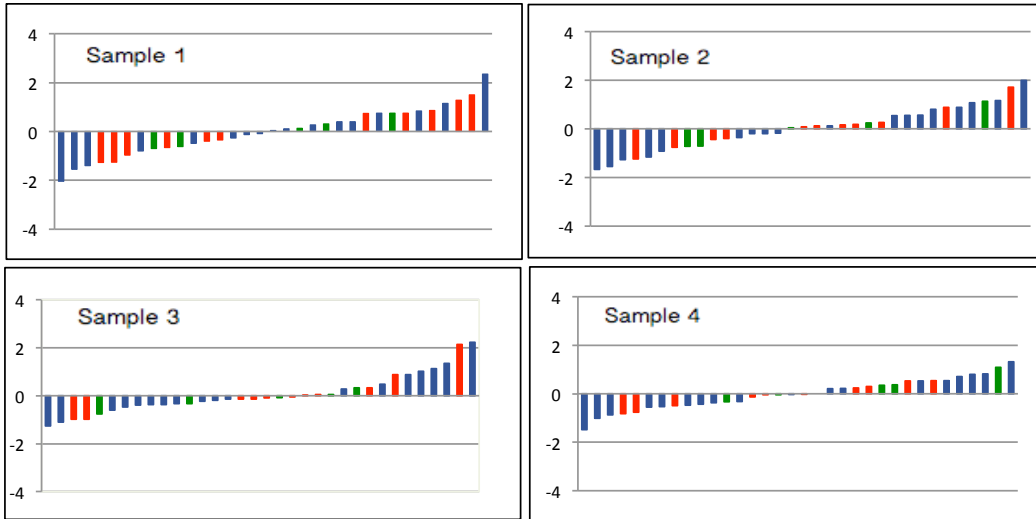
All summary stats and the plots below are based on the data excluding any flagged outliers



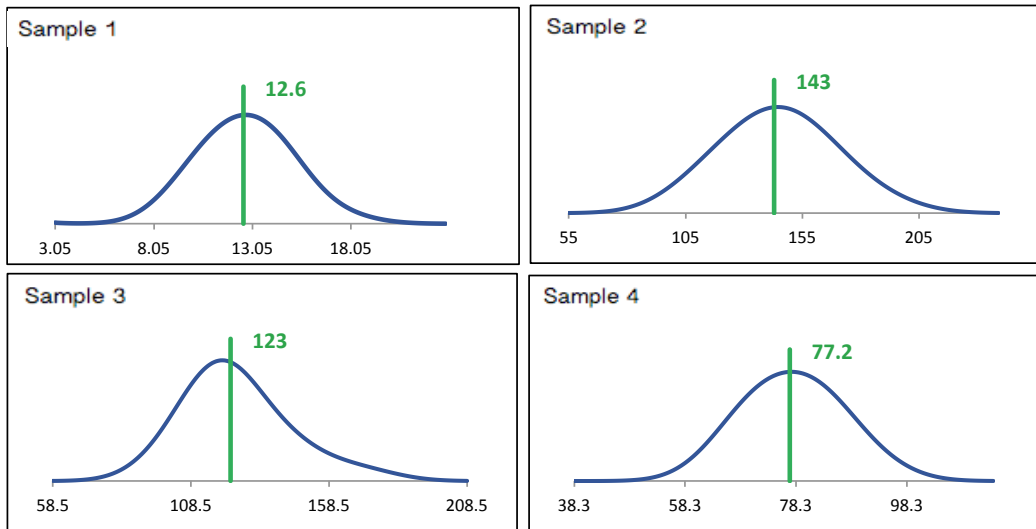
Annex A Summary by Analyte

BROMOFORM

z-Score Plots



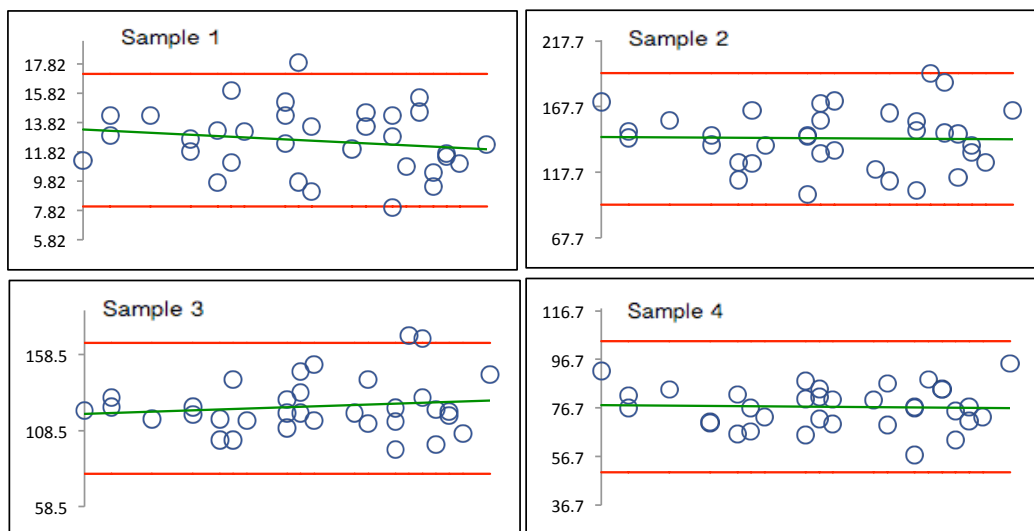
Kernel Density Plots



Annex A Summary by Analyte

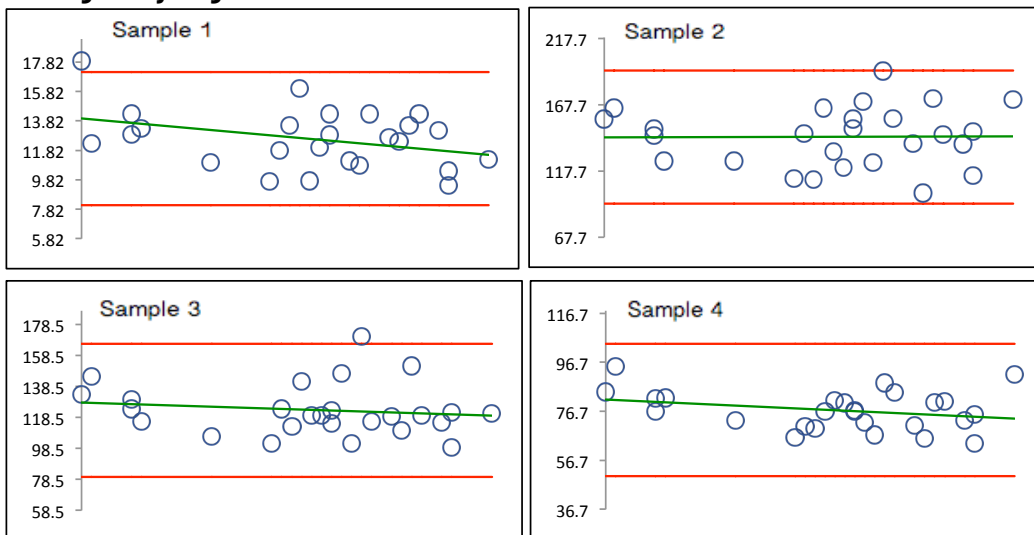
BROMOFORM

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).

Annex A Summary by Analyte

CARBON TETRACHLORIDE

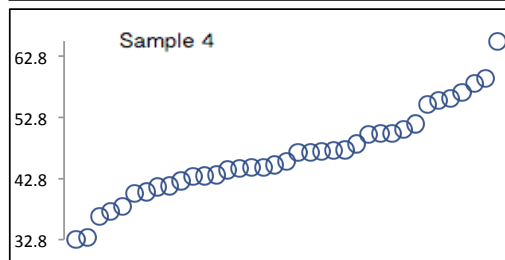
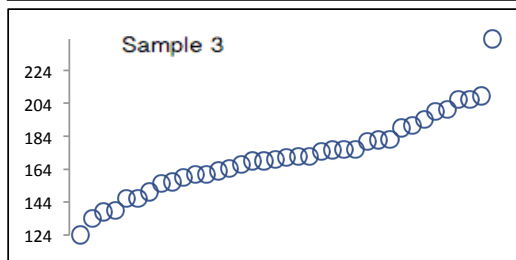
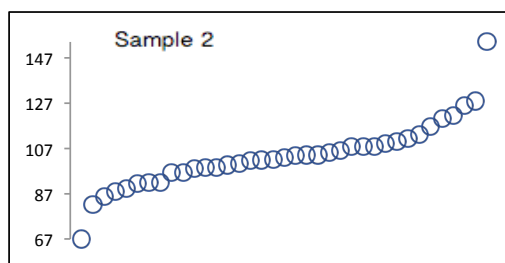
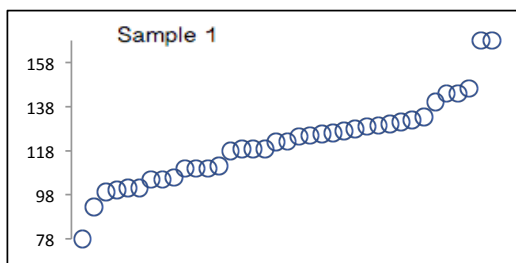
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	37	37	37	37
Median	122	103	171	45.5
Robust Mean	121	103	172	46.5
U	3.58	2.5	4.83	1.49
Robust Standard Deviation	17.4	12.1	23.5	7.27
Regression Standard Deviation	21.2	18.0	30.0	8.14
Stability Flag				
Homogeneity Flag				
Standard Deviation Used	21.2	18.0	30.0	8.14
Outliers	0	0	0	0
$ z > 3.0$	0	0	0	0
$2 < z < 3$	3	1	1	1

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	7	7	7	7

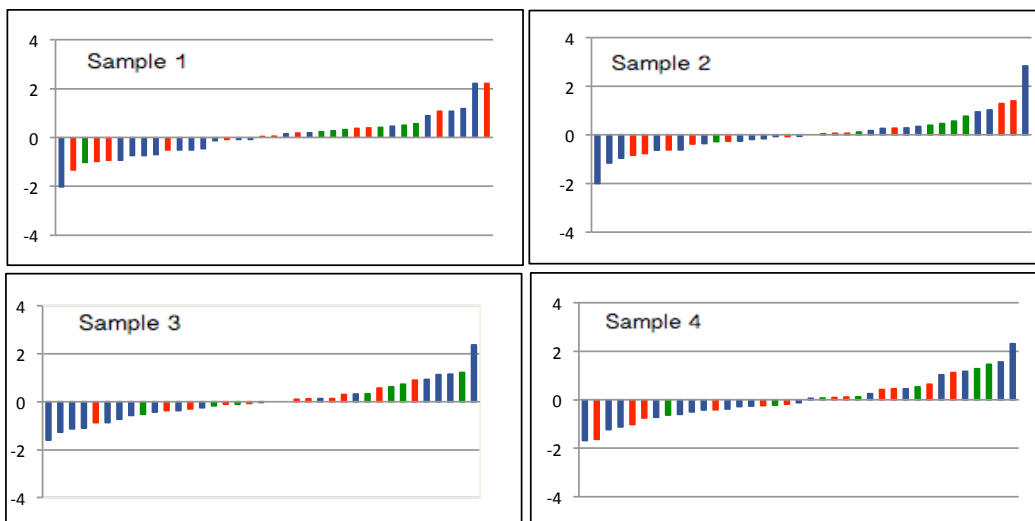
All summary stats and the plots below are based on the data excluding any flagged outliers



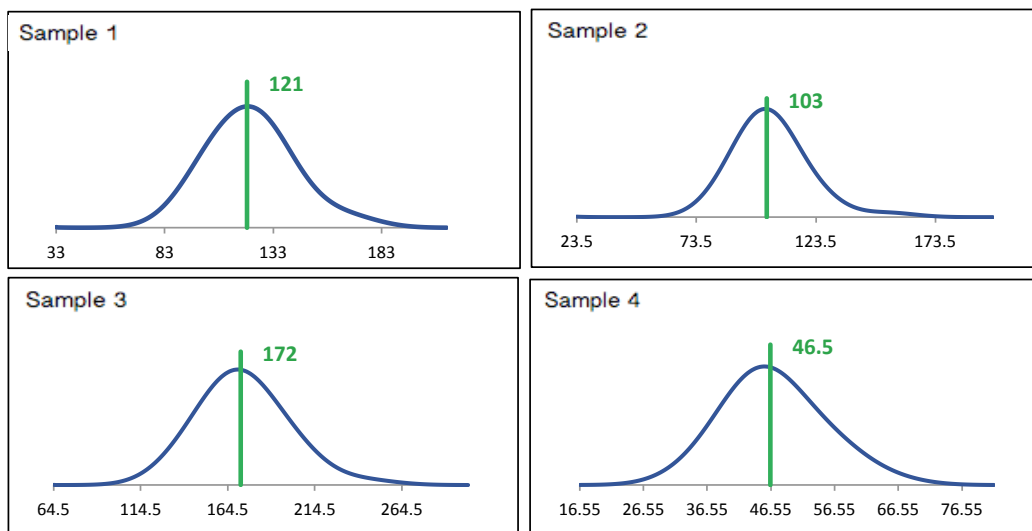
Annex A Summary by Analyte

CARBON TETRACHLORIDE

z-Score Plots



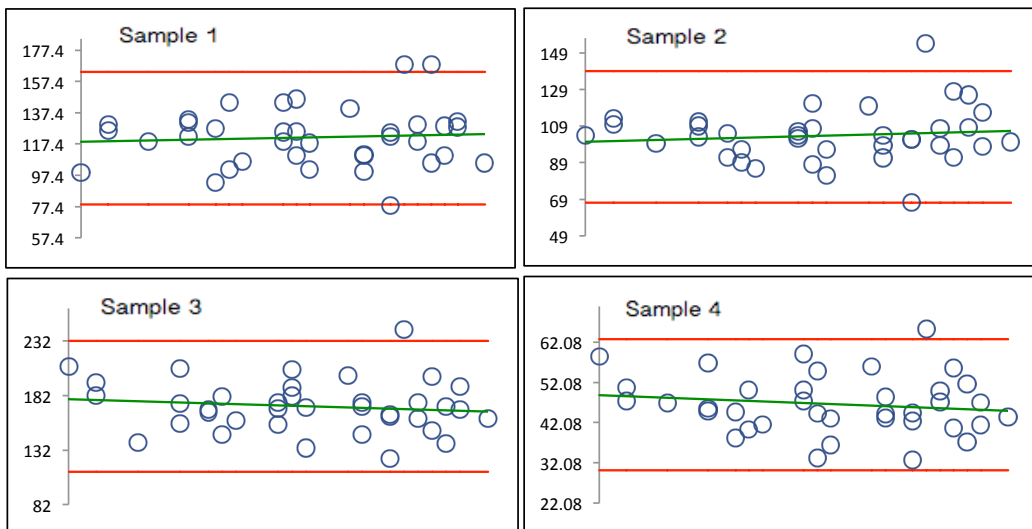
Kernel Density Plots



Annex A Summary by Analyte

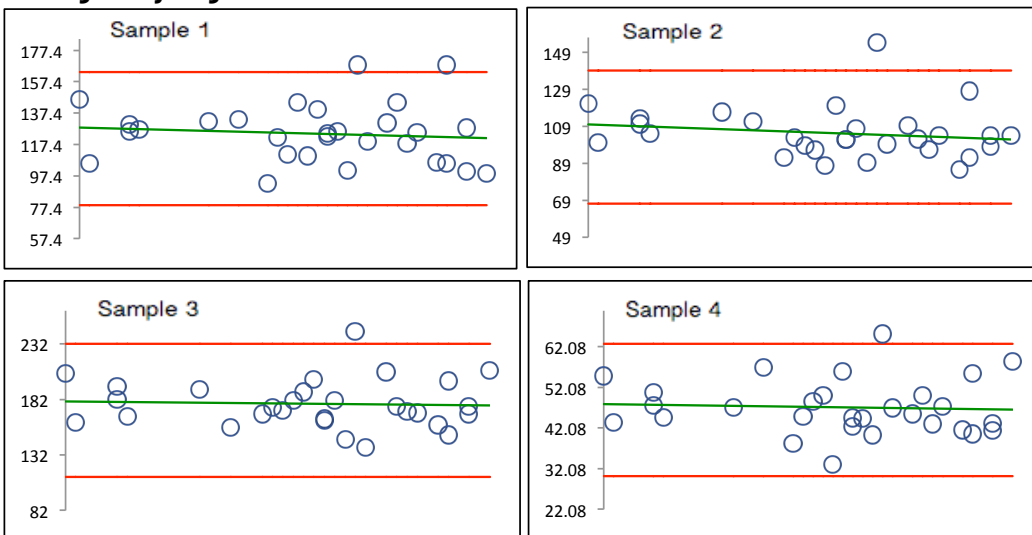
CARBON TETRACHLORIDE

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).

Annex A Summary by Analyte

CHLOROBENZENE

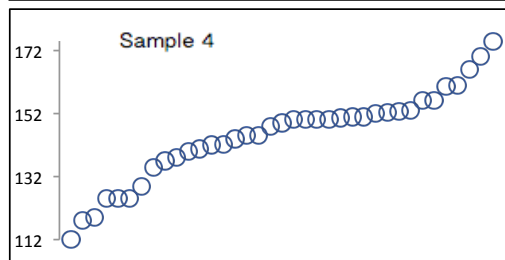
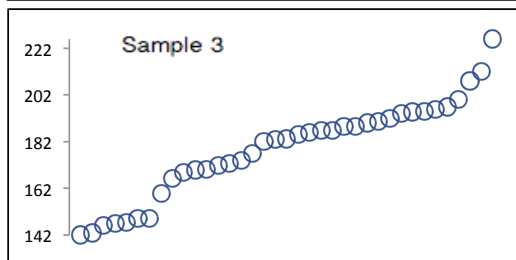
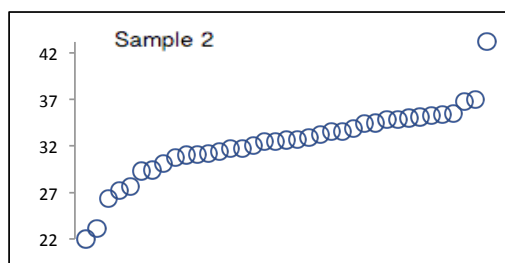
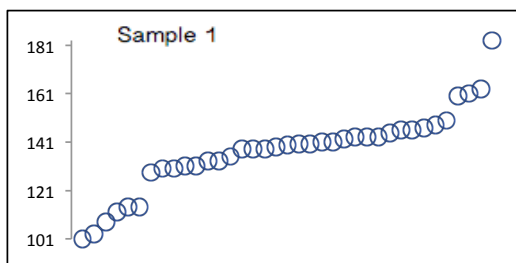
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	37	37	37	37
Median	140	33	183	149
Robust Mean	138	32.5	179	145
U	2.79	0.6	4.54	2.92
Robust Standard Deviation	13.6	3.08	22.1	14.2
Regression Standard Deviation	24.1	5.69	31.3	25.4
Stability Flag				
Homogeneity Flag				
Standard Deviation Used	24.1	5.69	31.3	25.4
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	7	7	7	7

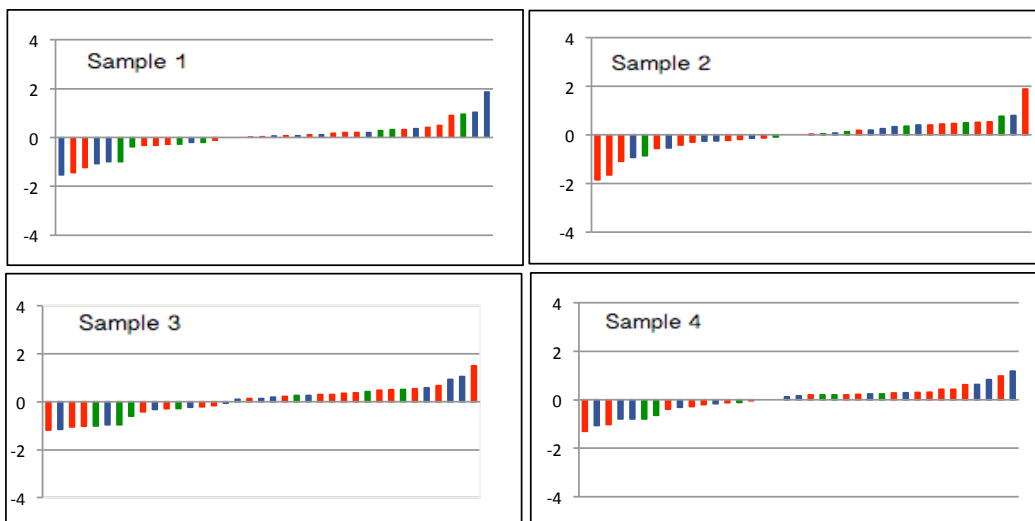
All summary stats and the plots below are based on the data excluding any flagged outliers



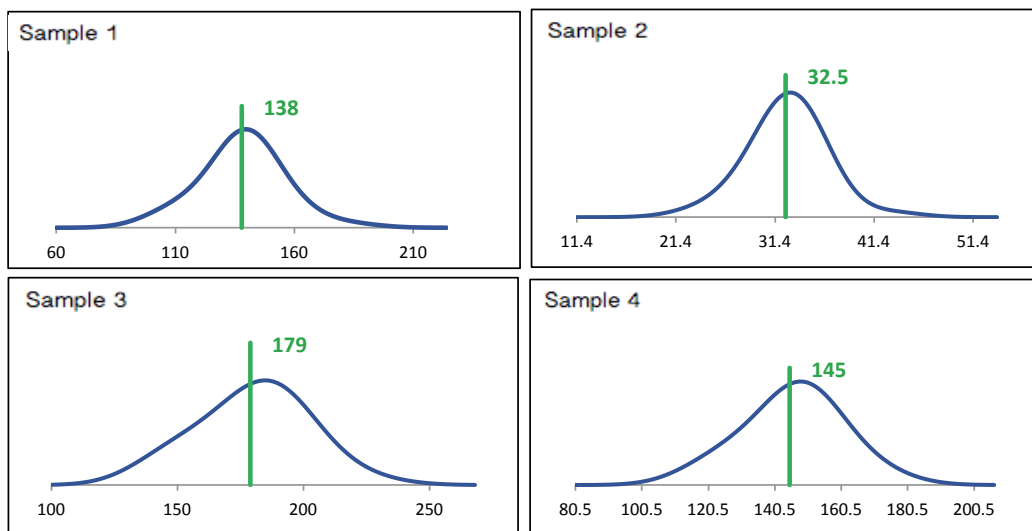
Annex A Summary by Analyte

CHLOROBENZENE

z-Score Plots



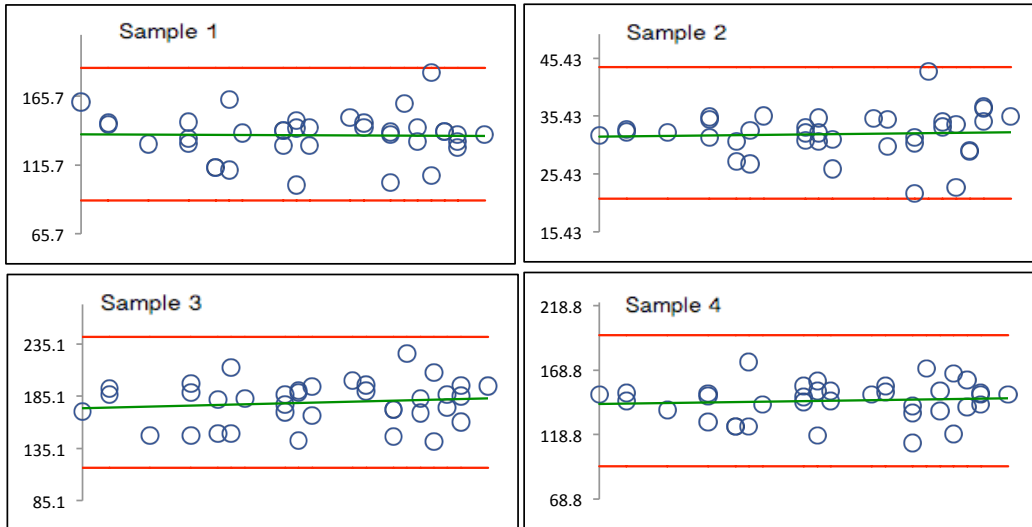
Kernel Density Plots



Annex A Summary by Analyte

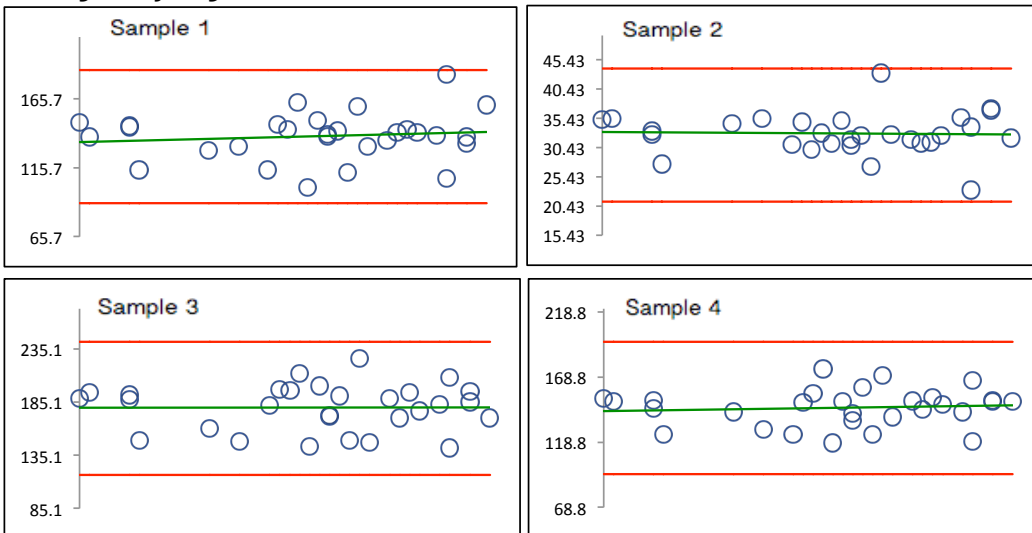
CHLOROBENZENE

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).

Annex A Summary by Analyte

CHLORODIBROMOMETHANE

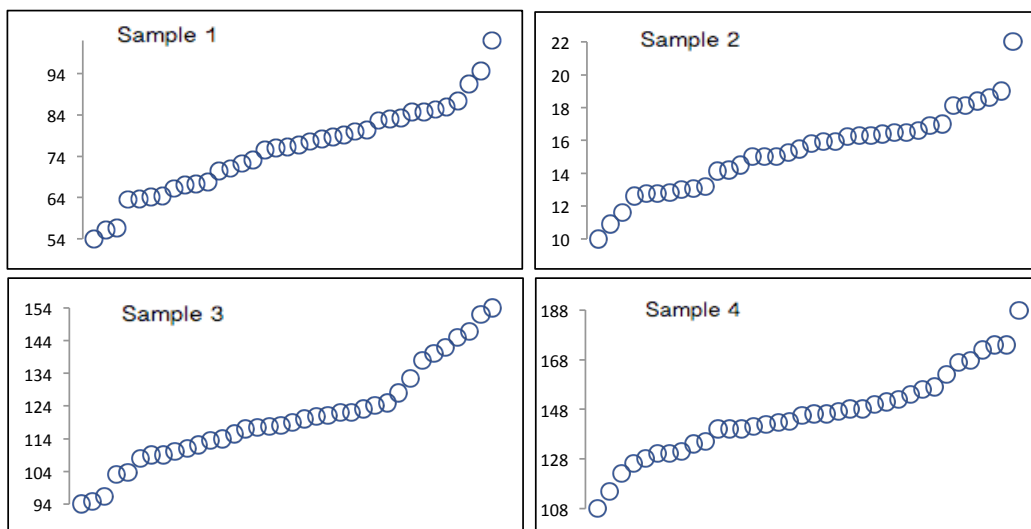
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	36	36	36	36
Median	76.4	15.6	119	146
Robust Mean	75.5	15.3	120	146
U	2.27	0.51	3.25	3.54
Robust Standard Deviation	10.9	2.45	15.6	17.0
Regression Standard Deviation	13.2	2.68	21.0	25.5
Stability Flag				
Homogeneity Flag				
Standard Deviation Used	13.2	2.68	21.0	25.5
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
GC/MSE	6	6	6	6
HS-GCMS	12	12	12	12

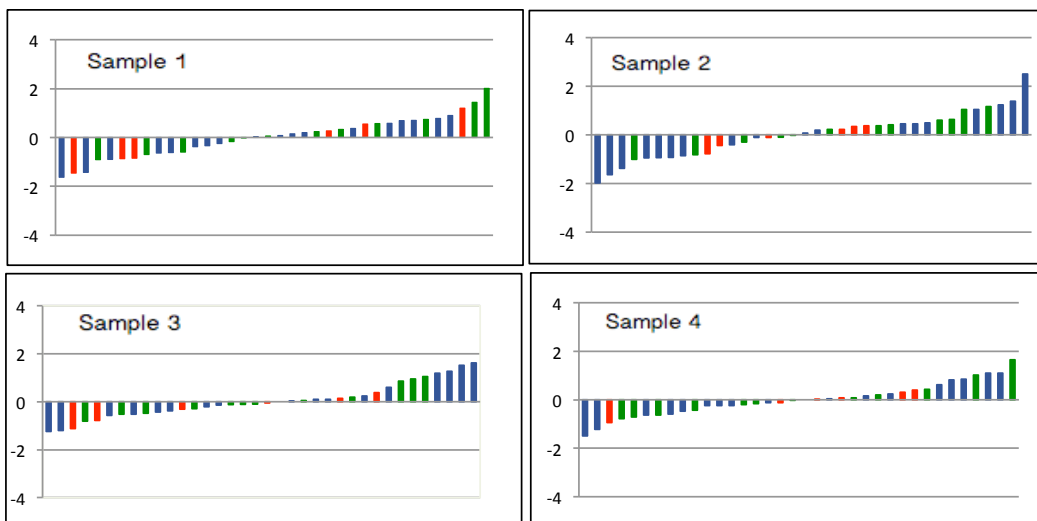
All summary stats and the plots below are based on the data excluding any flagged outliers



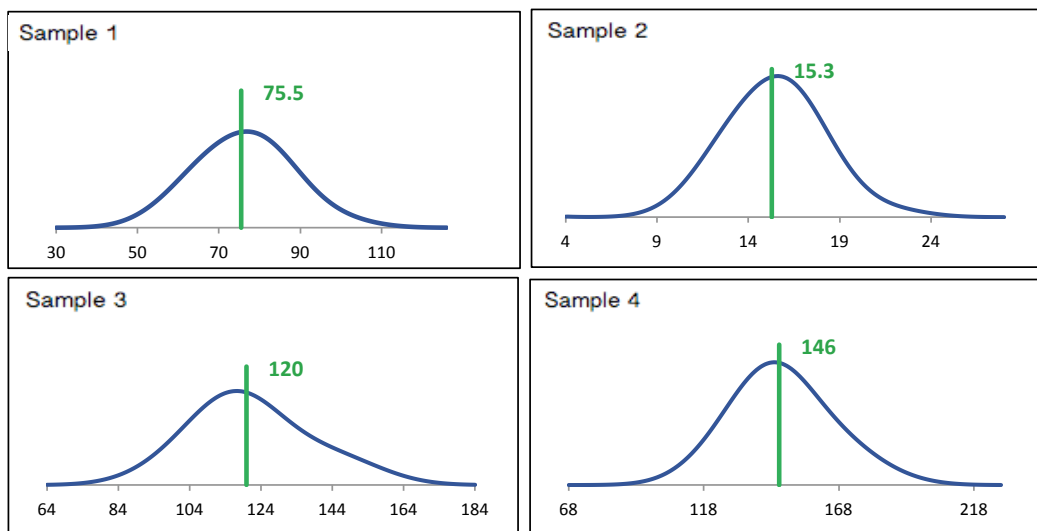
Annex A Summary by Analyte

CHLORODIBROMOMETHANE

z-Score Plots



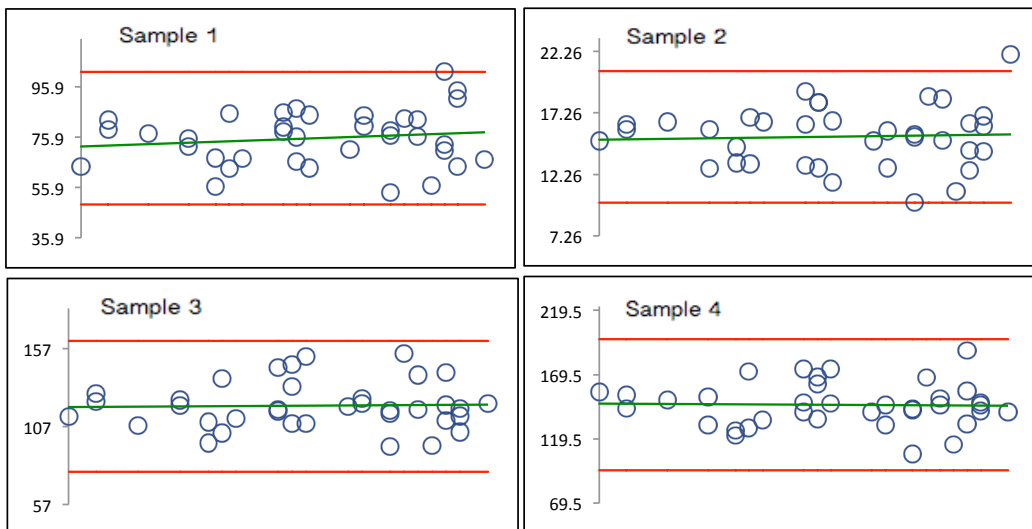
Kernel Density Plots



Annex A Summary by Analyte

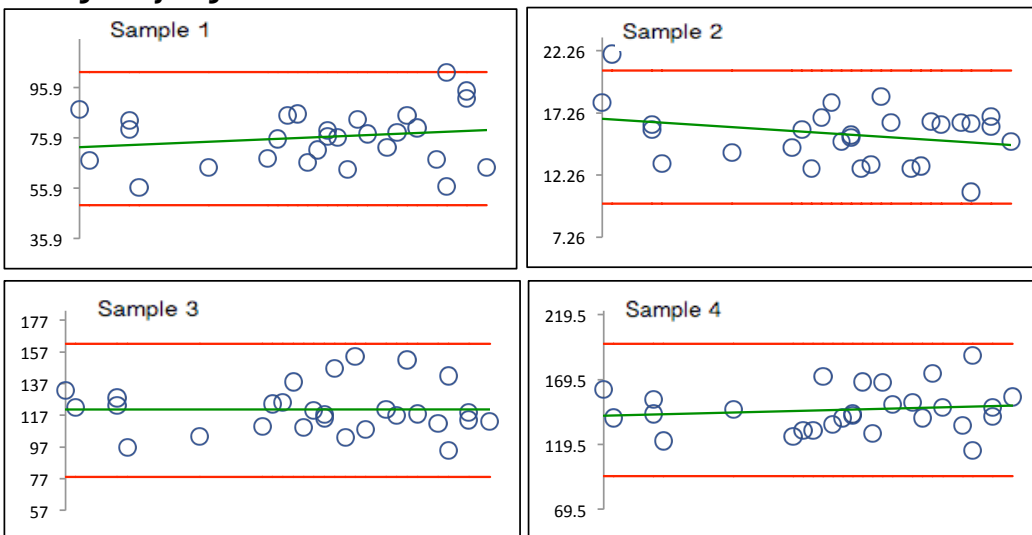
CHLORODIBROMOMETHANE

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).

Annex A Summary by Analyte

CHLOROFORM

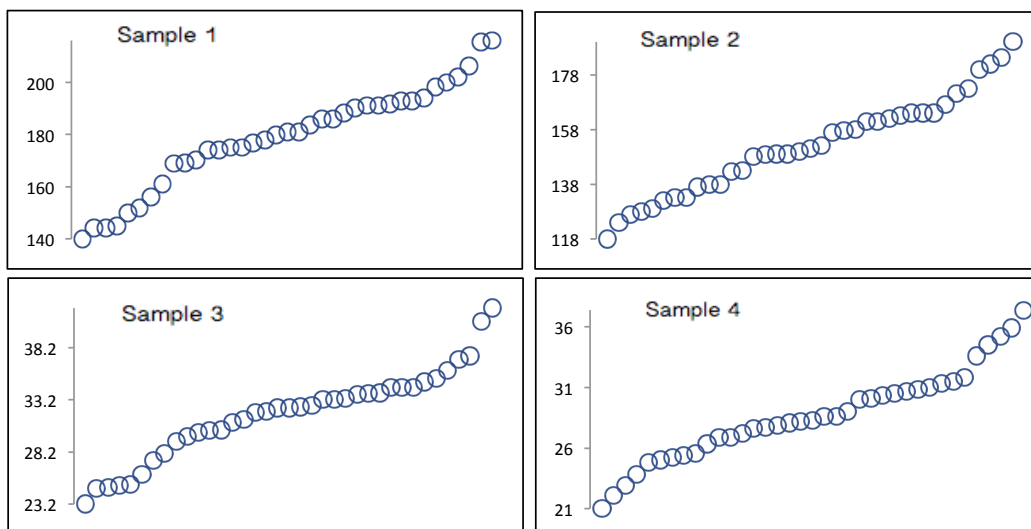
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	37	37	37	37
Median	181	151	32.4	28.3
Robust Mean	179	152	31.8	28.6
U	4.27	4.01	0.89	0.78
Robust Standard Deviation	20.8	19.5	4.32	3.78
Regression Standard Deviation	31.3	26.6	5.56	5.01
Stability Flag				
Homogeneity Flag				
Standard Deviation Used	31.3	26.6	5.56	5.01
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	7	7	7	7
HS-GCMS	12	12	12	12
P/T-GCMS	18	18	18	18

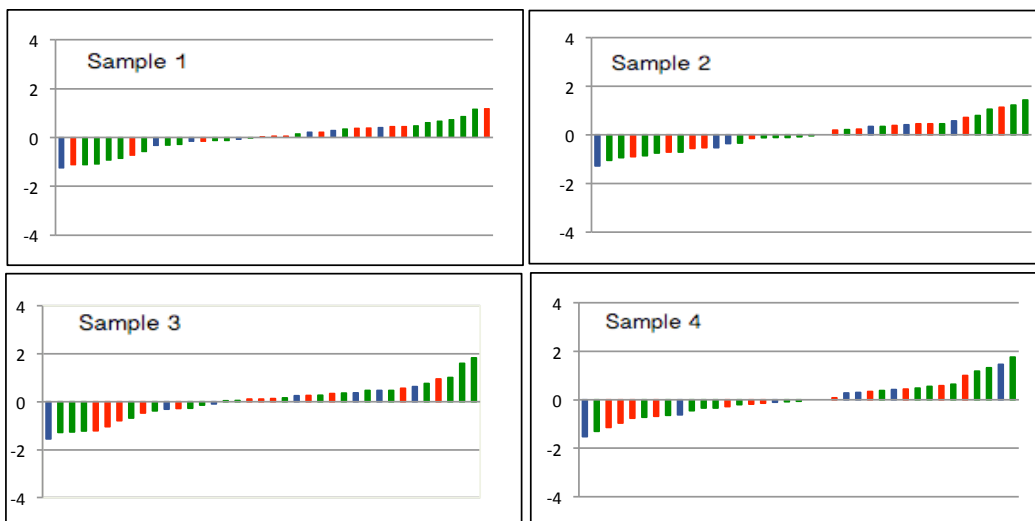
All summary stats and the plots below are based on the data excluding any flagged outliers



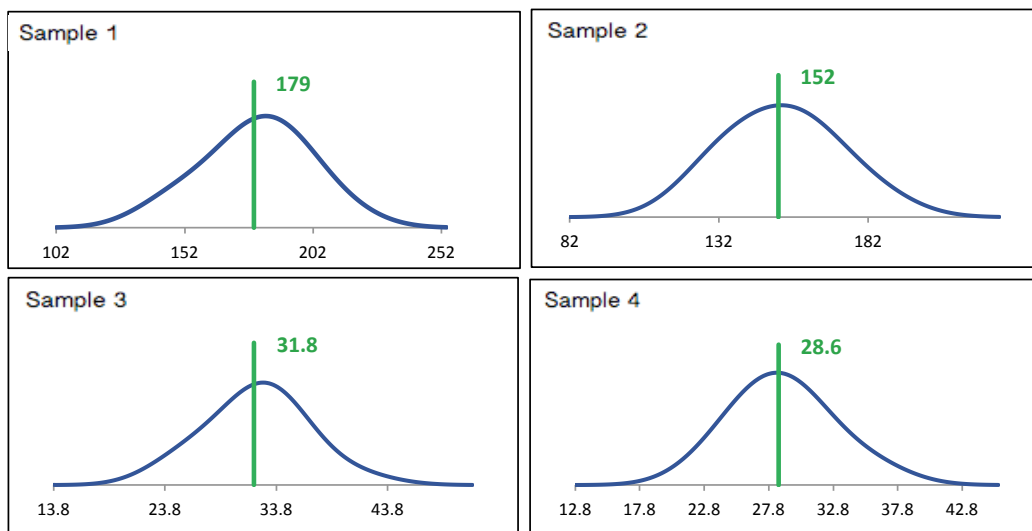
Annex A Summary by Analyte

CHLOROFORM

z-Score Plots



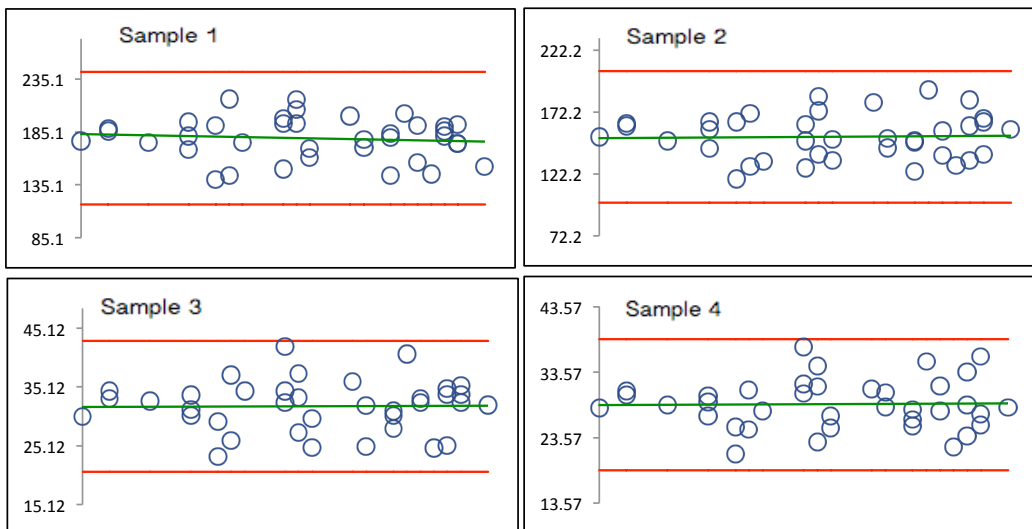
Kernel Density Plots



Annex A Summary by Analyte

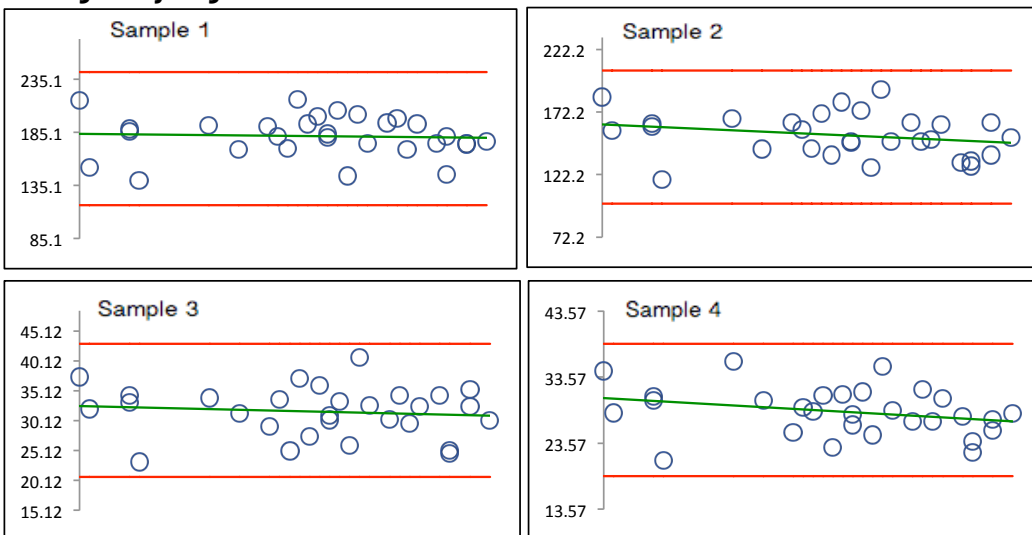
CHLOROFORM

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).

Annex A Summary by Analyte

CIS-1,2-DICHLOROETHYLENE

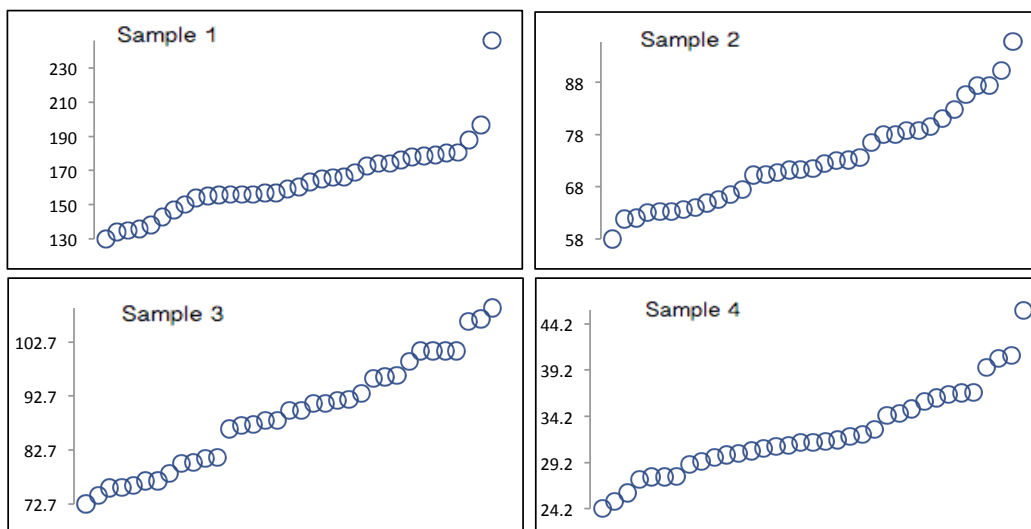
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	35	35	35	35
Median	160	72	90.0	31.4
Robust Mean	162	73	89.1	32.1
U	3.89	2.03	2.41	0.97
Robust Standard Deviation	18.4	9.62	11.4	4.59
Regression Standard Deviation	28.4	12.7	15.6	5.61
Stability Flag				
Homogeneity Flag				
Standard Deviation Used	28.4	12.7	15.6	5.61
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
P/T-GCMS	17	17	17	17
HS-GCMS	12	12	12	12
GC/MSE	6	6	6	6

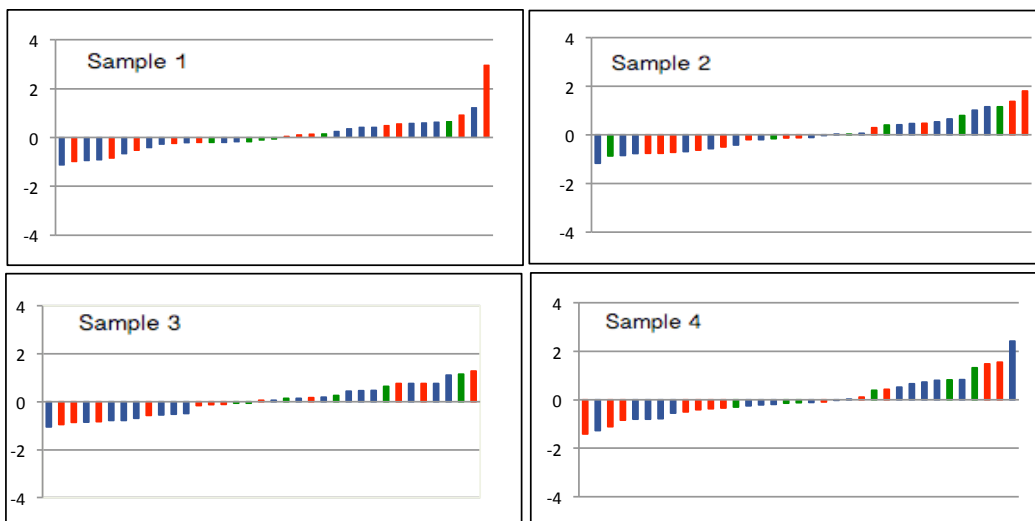
All summary stats and the plots below are based on the data excluding any flagged outliers



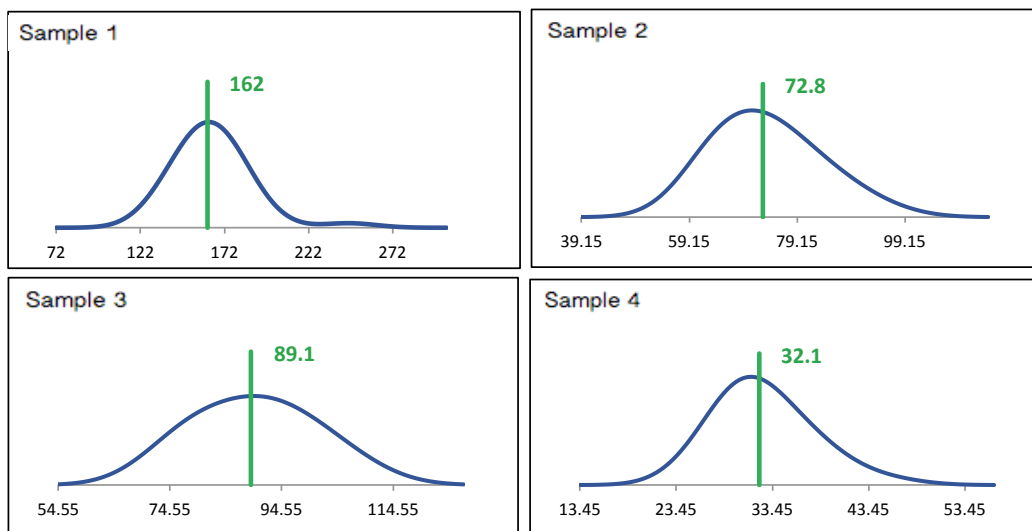
Annex A Summary by Analyte

CIS-1,2-DICHLOROETHYLENE

z-Score Plots



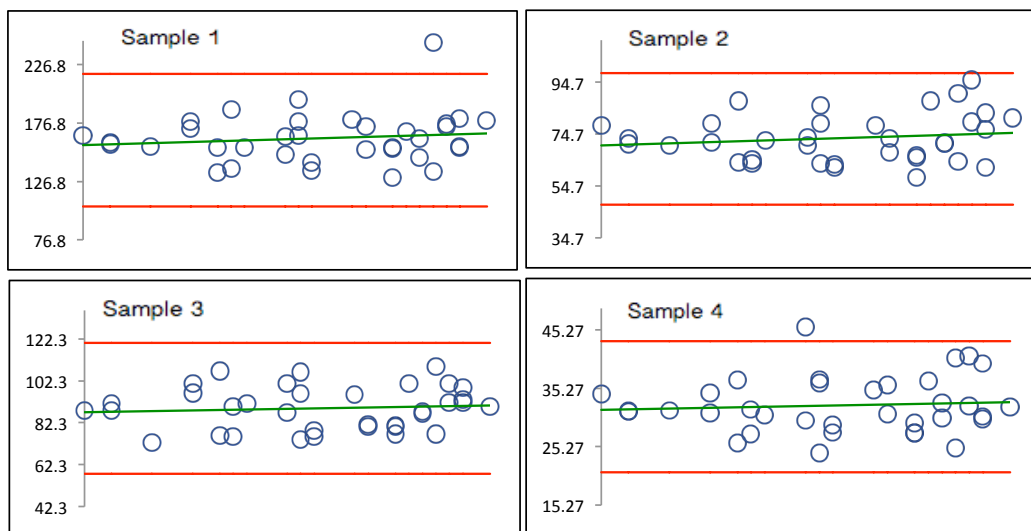
Kernel Density Plots



Annex A Summary by Analyte

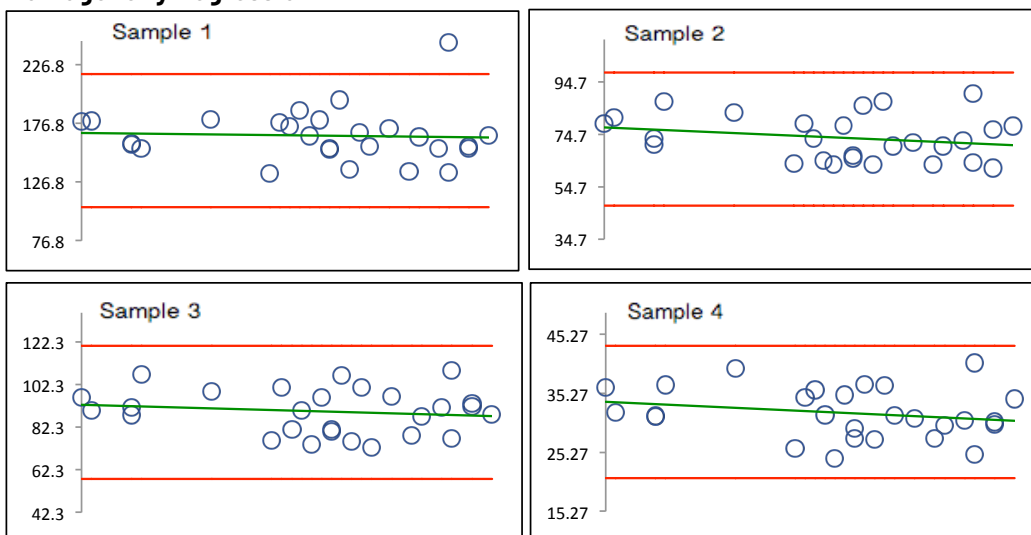
CIS-1,2-DICHLOROETHYLENE

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).

Annex A Summary by Analyte

CIS-1,3-DICHLOROPROPENE

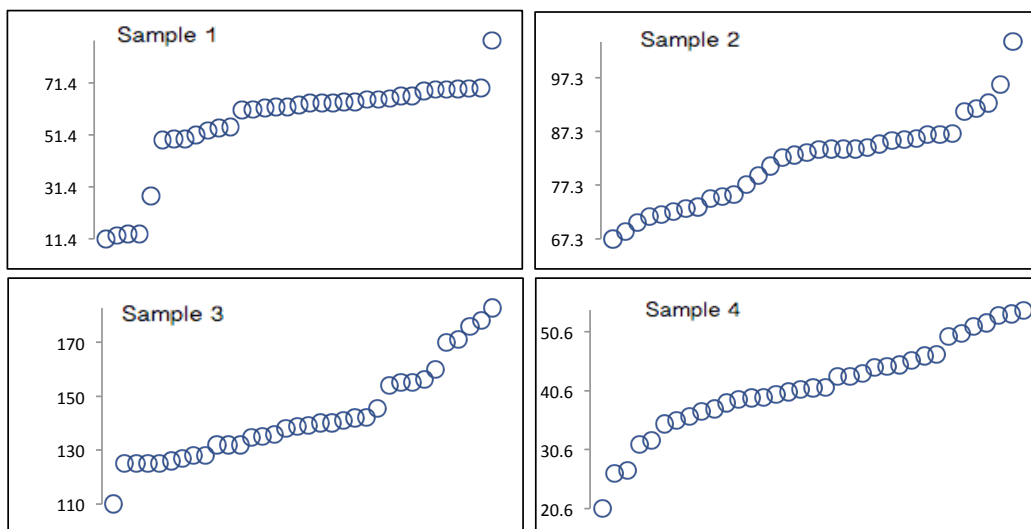
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	35	34	34	35
Median	63.0	83.6	139	41.1
Robust Mean	59.9	81.4	141	41.8
U	2.09	1.81	3.58	1.68
Robust Standard Deviation	9.90	8.46	16.7	7.94
Regression Standard Deviation	10.5	14.2	24.7	7.31
Stability Flag				
Homogeneity Flag	Homogeneity			Homogeneity
Standard Deviation Used	20.1	14.2	24.7	10.0
Outliers	0	1	1	0
$ z > 3.0$	0	0	0	0
$2 < z < 3$	4	0	0	1

Methods Used

Method	C36-1	C36-2	C36-3	C36-4
HS-GCMS	12	12	12	12
P/T-GCMS	17	16	16	17
GC/MSE	6	6	6	6

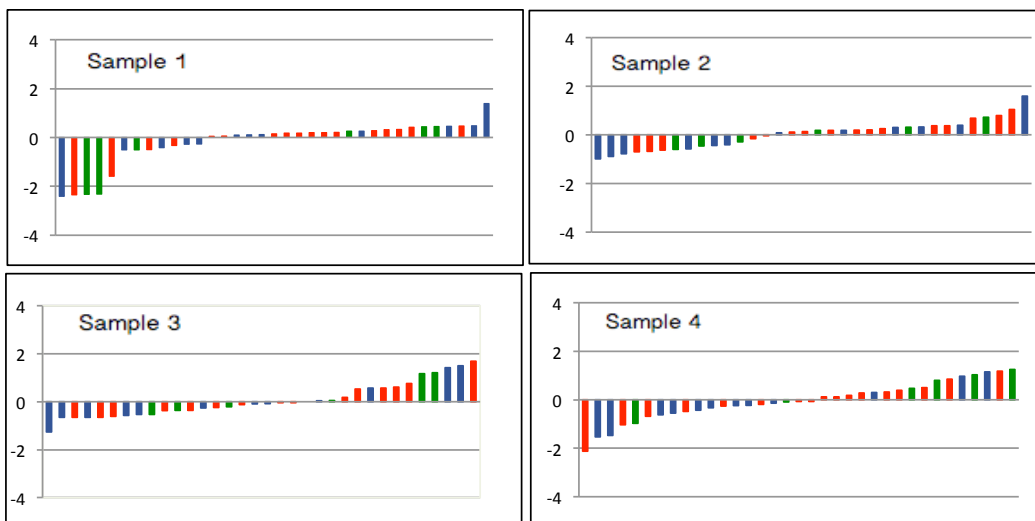
All summary stats and the plots below are based on the data excluding any flagged outliers



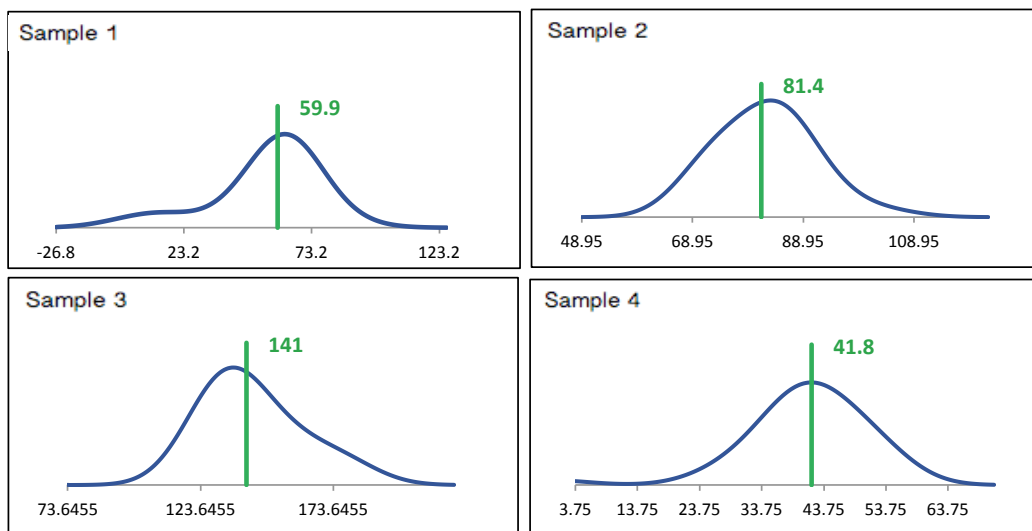
Annex A Summary by Analyte

CIS-1,3-DICHLOROPROPENE

z-Score Plots



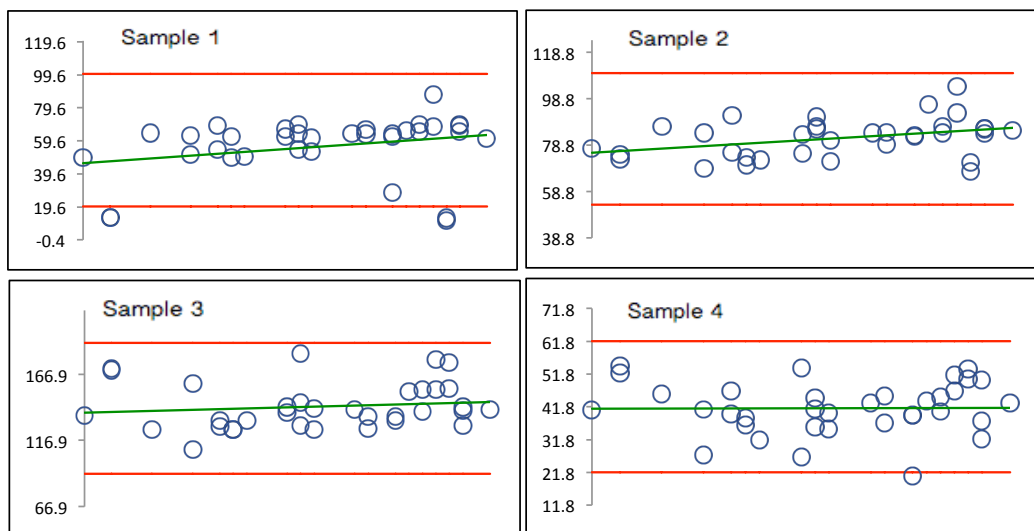
Kernel Density Plots



Annex A Summary by Analyte

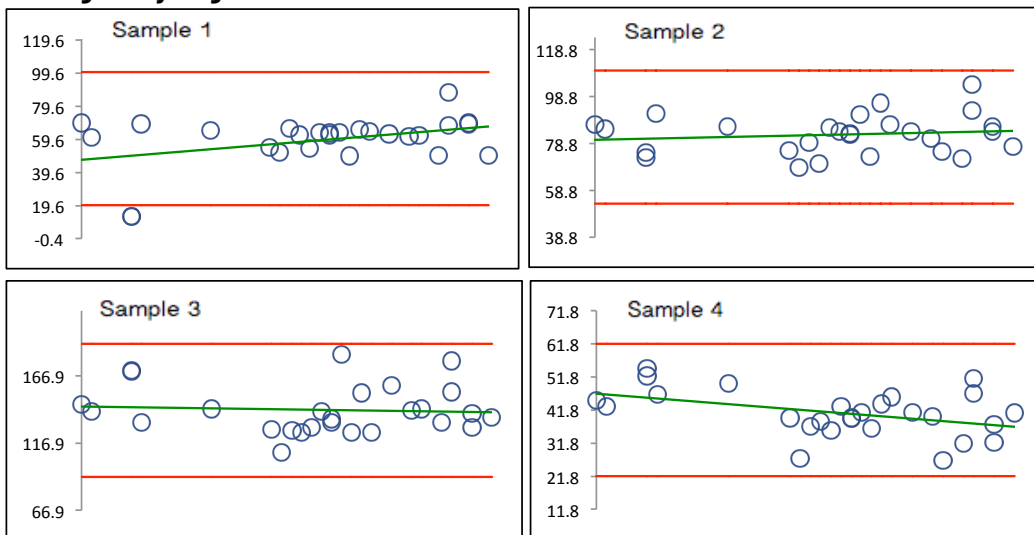
CIS-1,3-DICHLOROPROPENE

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).

Annex A Summary by Analyte

DICHLOROMETHANE

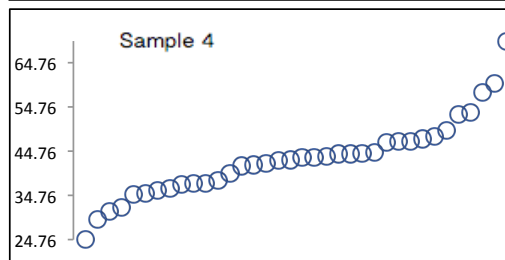
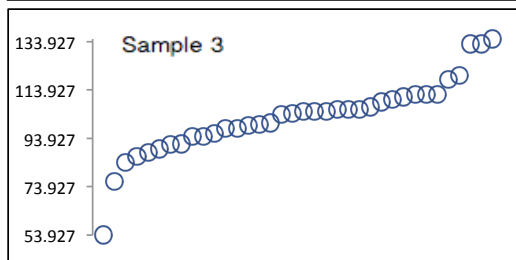
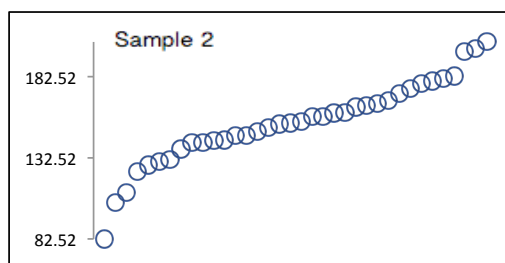
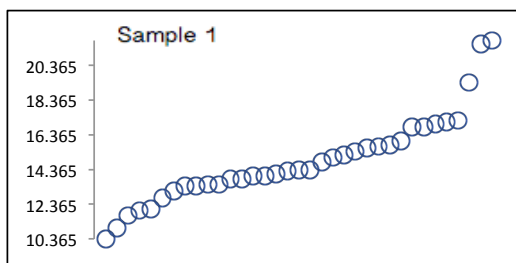
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	35	36	36	36
Median	14.3	155	105	43.1
Robust Mean	14.7	155	103	42.5
U	0.46	4.96	2.63	1.60
Robust Standard Deviation	2.16	23.8	12.6	7.68
Regression Standard Deviation	2.93	31.0	20.5	8.50
Stability Flag				
Homogeneity Flag				
Standard Deviation Used	2.93	31.0	20.5	8.50
Outliers	0	0	0	0
$ z > 3.0$	0	0	0	1
$2 < z < 3$	2	1	1	2

Methods Used

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

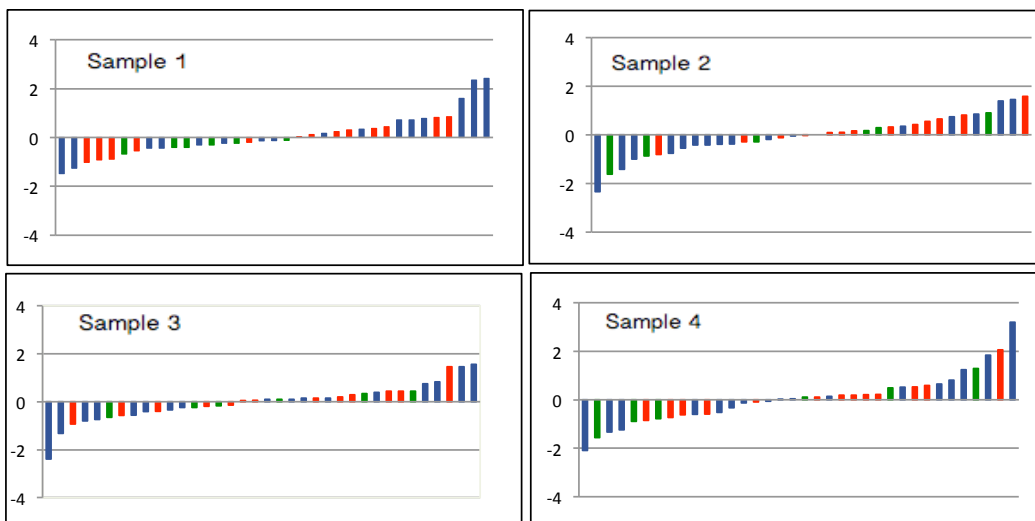
All summary stats and the plots below are based on the data excluding any flagged outliers



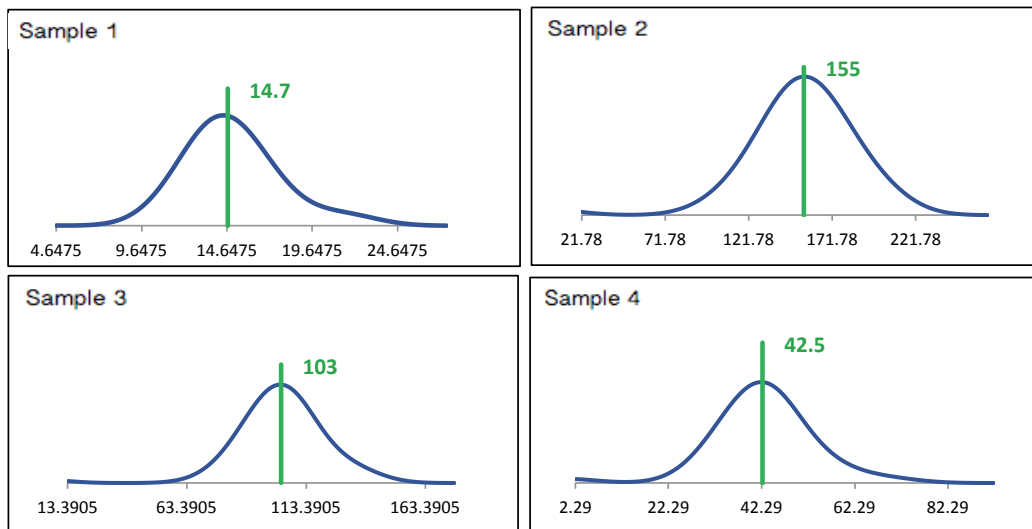
Annex A Summary by Analyte

DICHLOROMETHANE

z-Score Plots



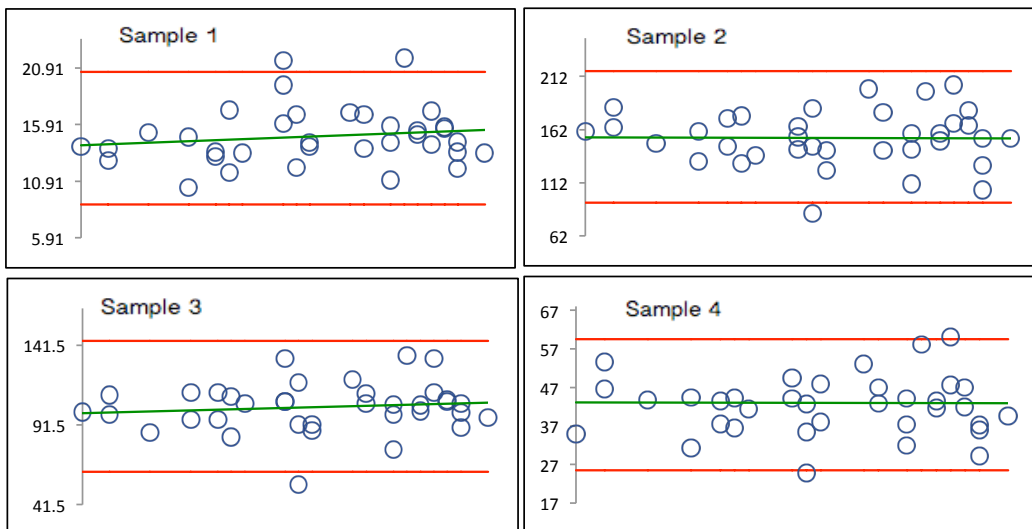
Kernel Density Plots



Annex A Summary by Analyte

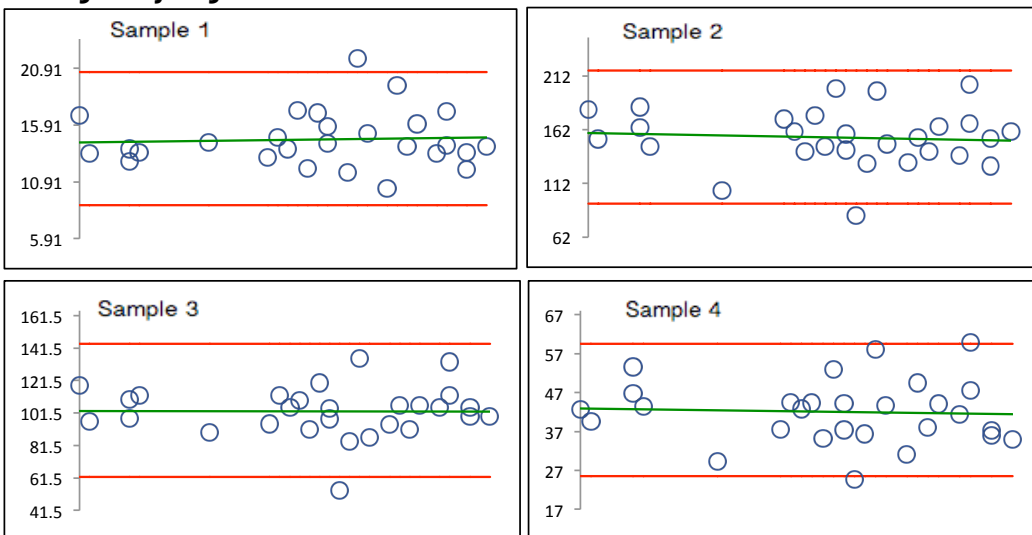
DICHLOROMETHANE

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).

Annex A Summary by Analyte

ETHYLBENZENE

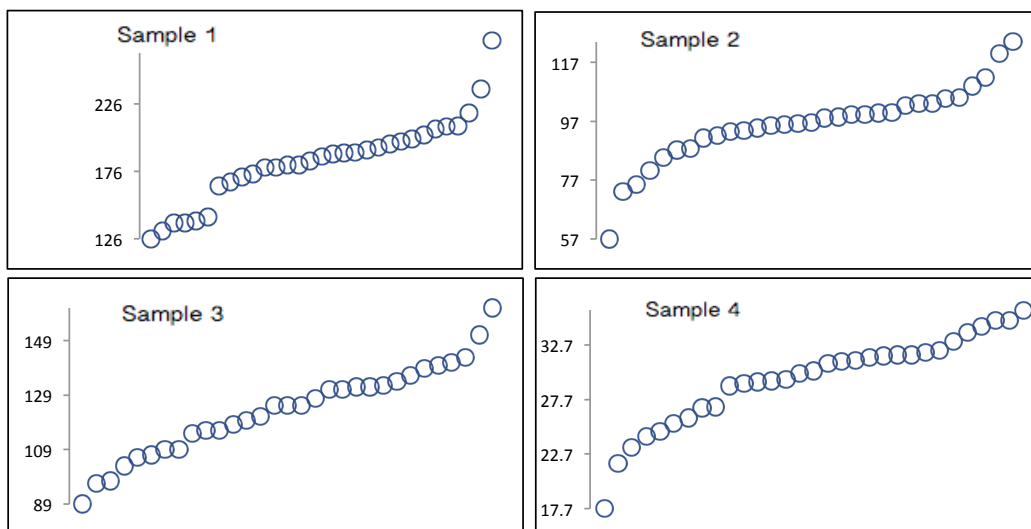
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	31	31	31	31
Median	187	96.6	125	30.3
Robust Mean	182	96.5	123	29.8
U	6.80	2.33	3.82	0.92
Robust Standard Deviation	30.3	10.4	17.0	4.08
Regression Standard Deviation	31.9	16.9	21.6	5.22
Stability Flag				
Homogeneity Flag				
Standard Deviation Used	31.9	16.9	21.6	5.22
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
P/T-GCMS	15	15	15	15
HS-GCMS	9	9	9	9
GC/MSE	6	6	6	6
GC/MSF/HS	1	1	1	1

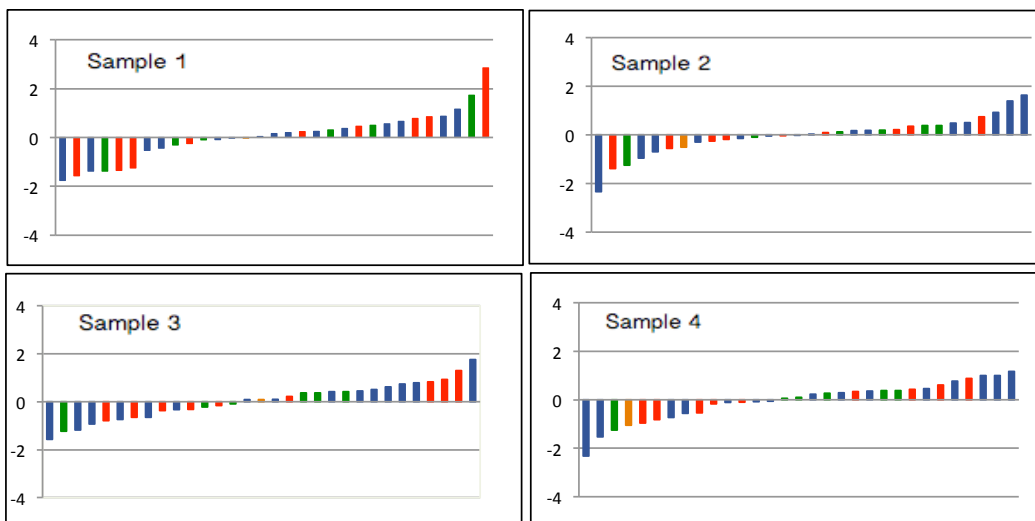
All summary stats and the plots below are based on the data excluding any flagged outliers



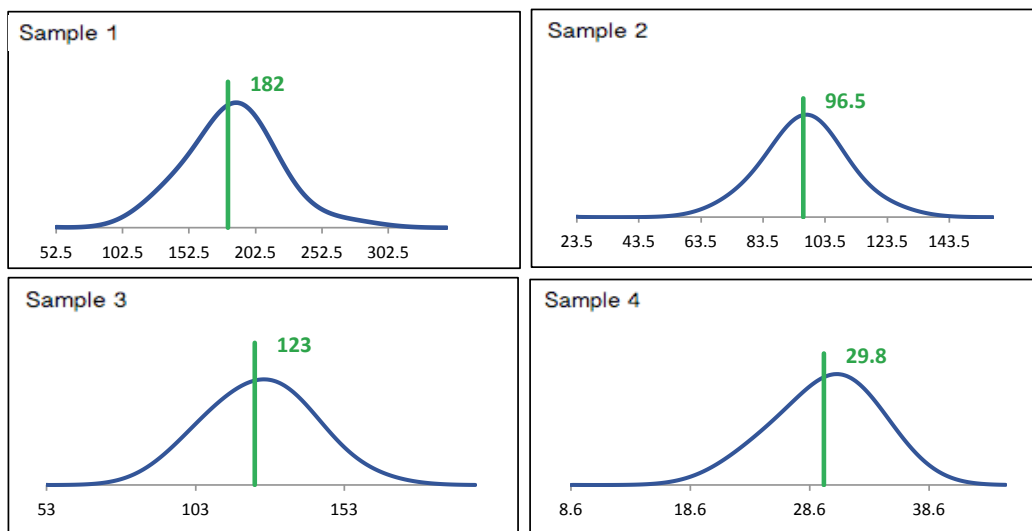
Annex A Summary by Analyte

ETHYLBENZENE

z-Score Plots



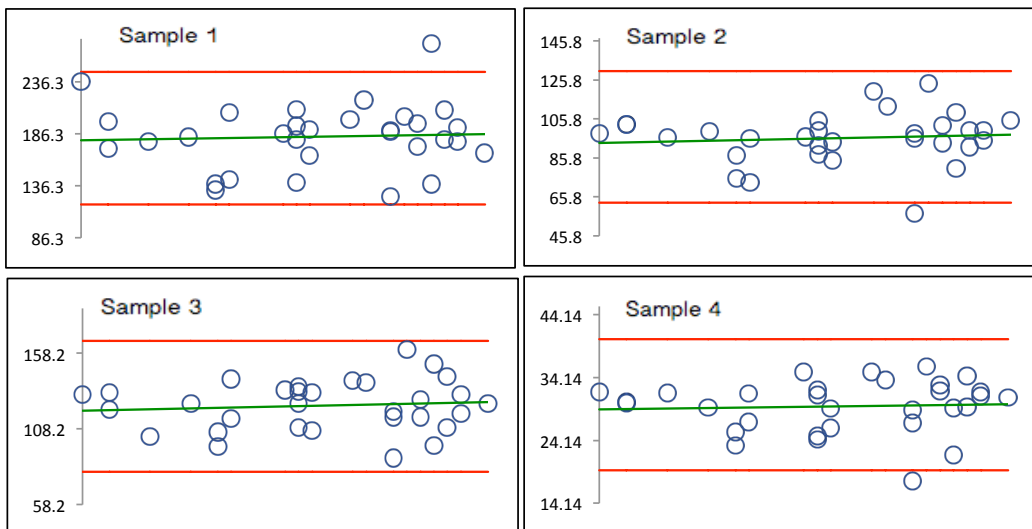
Kernel Density Plots



Annex A Summary by Analyte

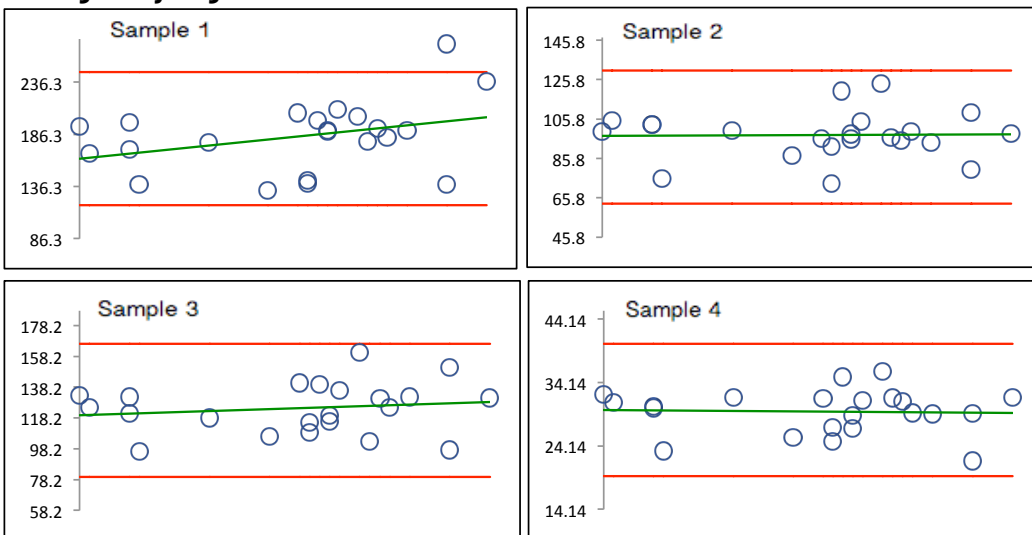
ETHYLBENZENE

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).

Annex A Summary by Analyte

ETHYLENE DIBROMIDE

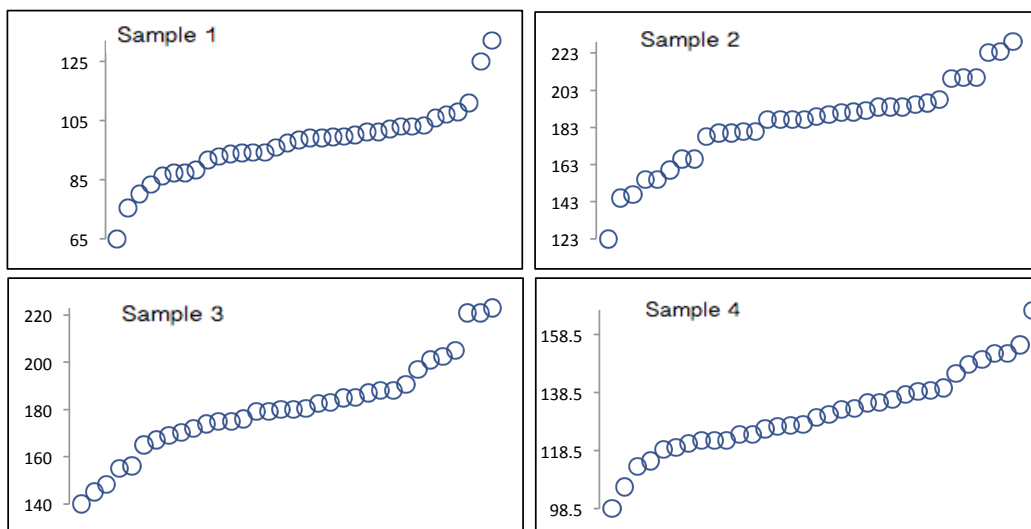
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	34	34	34	34
Median	98.7	188	180	131
Robust Mean	97.0	186	180	132
U	2.07	4.72	3.97	3.07
Robust Standard Deviation	9.65	22.0	18.5	14.3
Regression Standard Deviation	17.0	32.5	31.5	23.0
Stability Flag				
Homogeneity Flag				
Standard Deviation Used	17.0	32.5	31.5	23.0
Outliers	1	1	1	1
$ 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	12	12	12	12
GC/MSE	4	4	4	4

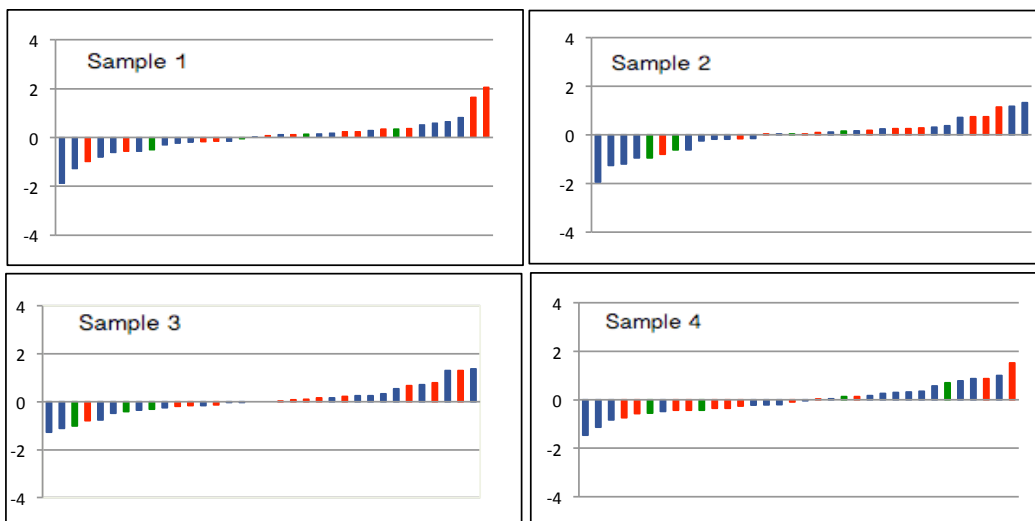
All summary stats and the plots below are based on the data excluding any flagged outliers



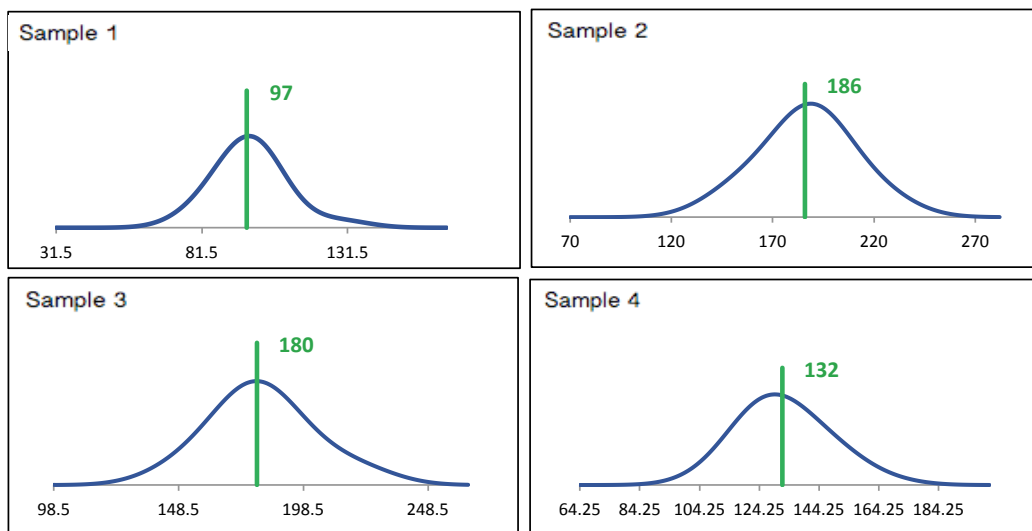
Annex A Summary by Analyte

ETHYLENE DIBROMIDE

z-Score Plots



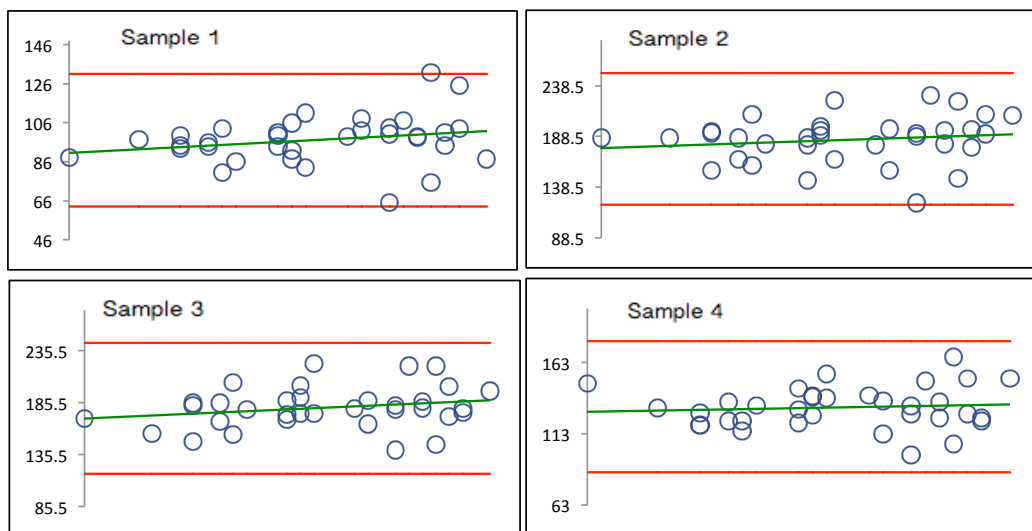
Kernel Density Plots



Annex A Summary by Analyte

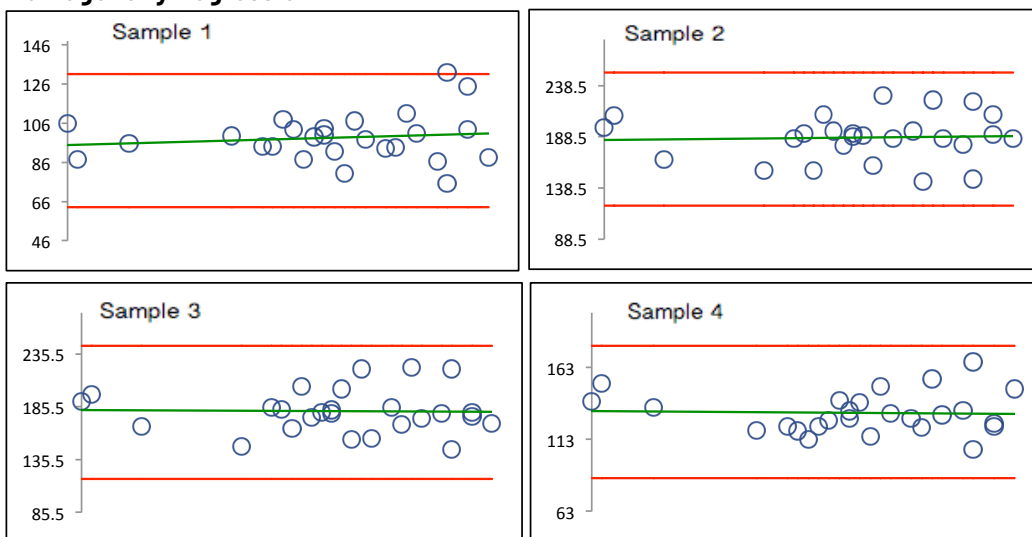
ETHYLENE DIBROMIDE

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).

Annex A Summary by Analyte

M,P-XYLENE

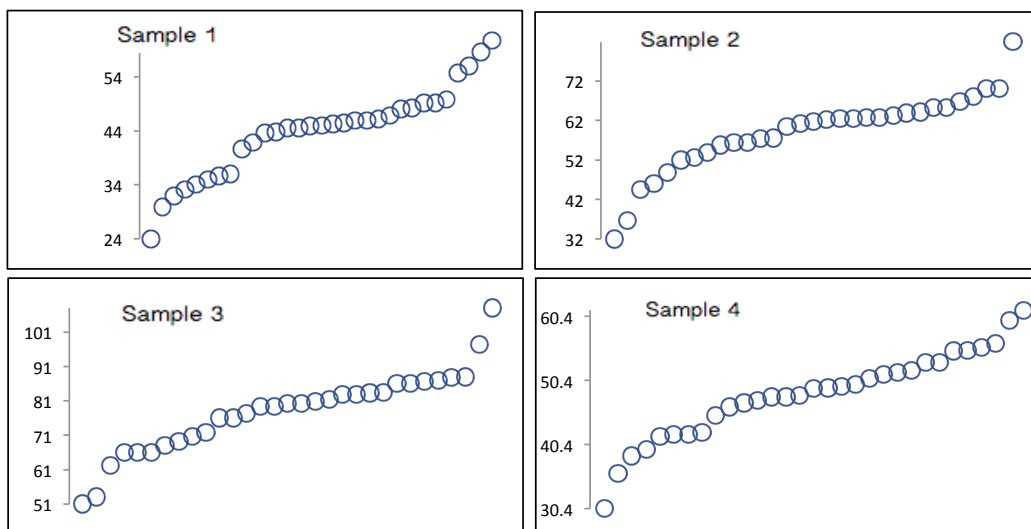
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	31	31	31	31
Median	45.0	61.7	80.2	49.1
Robust Mean	43.9	59.5	77.9	48.4
U	1.87	1.84	2.36	1.51
Robust Standard Deviation	8.34	8.21	10.5	6.73
Regression Standard Deviation	8.78	11.9	15.6	9.68
Stability Flag				
Homogeneity Flag				
Standard Deviation Used	8.78	11.9	15.6	9.68
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	15	15	15	15
HS-GCMS	9	9	9	9
GC/MSE	6	6	6	6
GC/MSF/HS	1	1	1	1

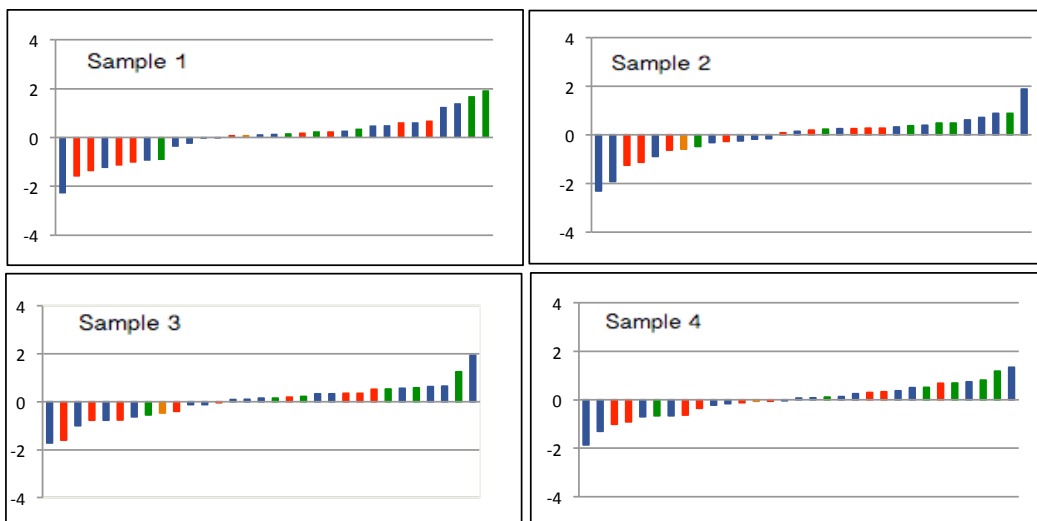
All summary stats and the plots below are based on the data excluding any flagged outliers



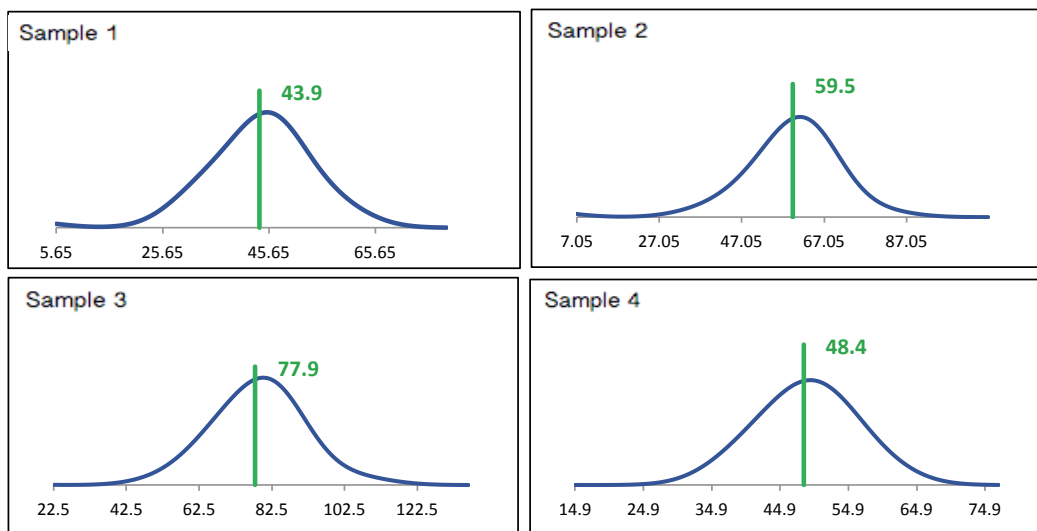
Annex A Summary by Analyte

M,P-XYLENE

z-Score Plots



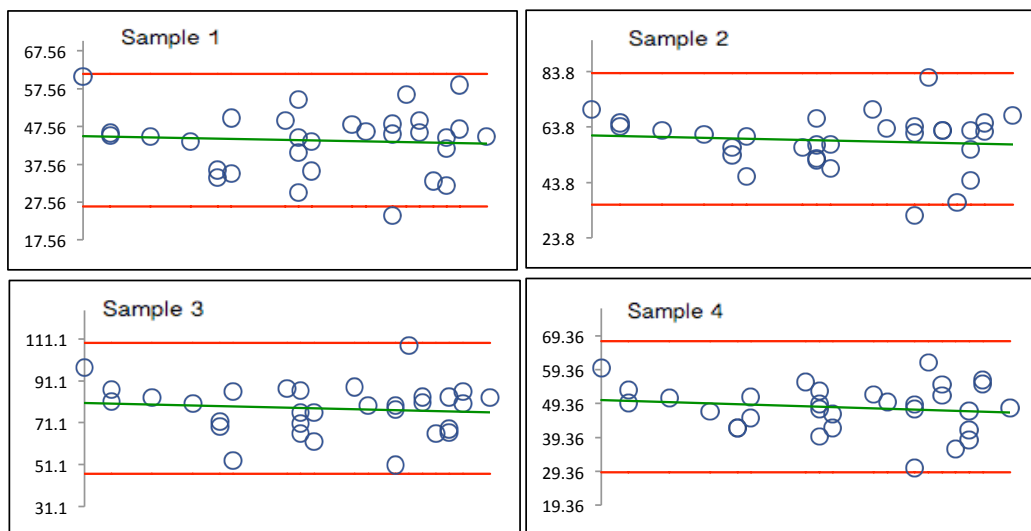
Kernel Density Plots



Annex A Summary by Analyte

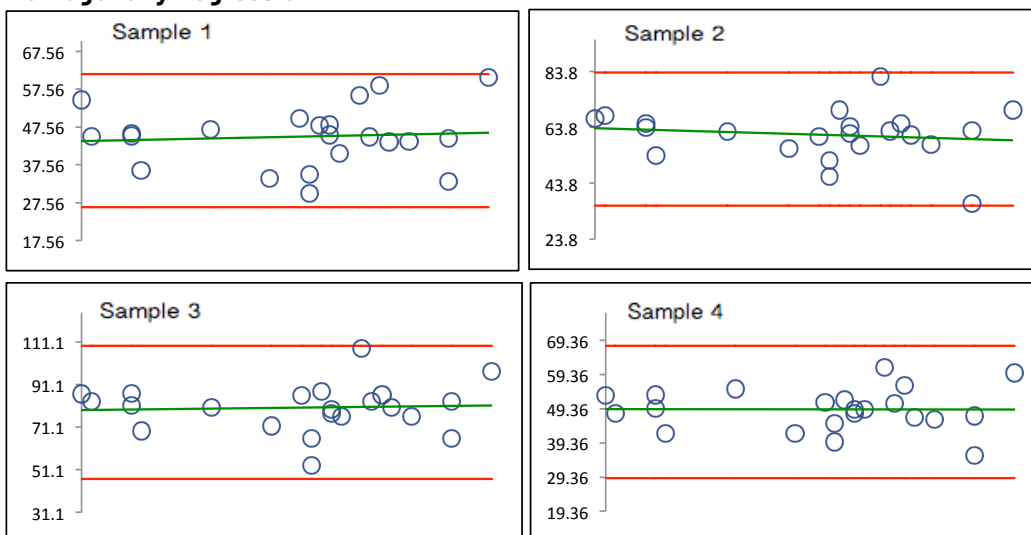
M,P-XYLENE

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).

Annex A Summary by Analyte

METHYL ETHYL KETONE

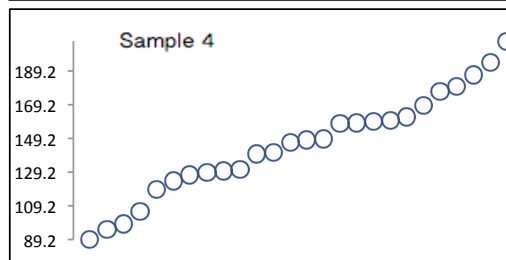
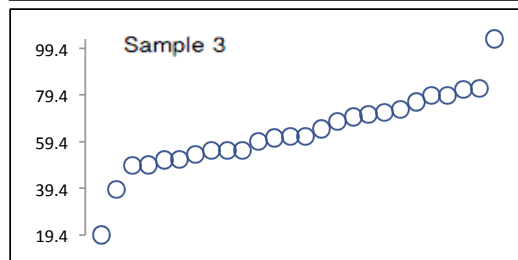
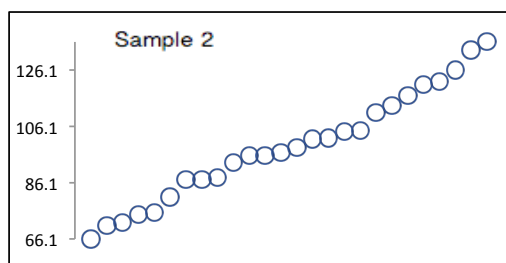
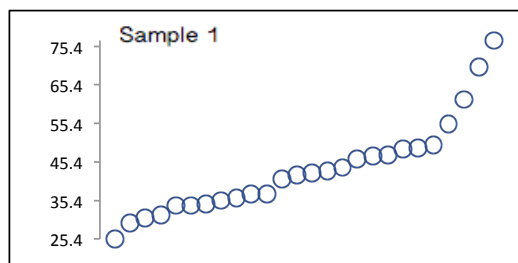
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	26	26	26	26
Median	42.3	97.7	61.6	148
Robust Mean	42.1	98.7	63.6	145
U	2.52	5.30	3.53	8.09
Robust Standard Deviation	10.3	21.6	14.4	33.0
Regression Standard Deviation	11.6	27.1	17.5	40.0
Stability Flag			Stability	
Homogeneity Flag	Homogeneity			
Standard Deviation Used	23.6	27.1	29.7	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
P/T-GCMS	15	15	15	15
HS-GCMS	8	8	8	8
GC/MSE	3	3	3	3

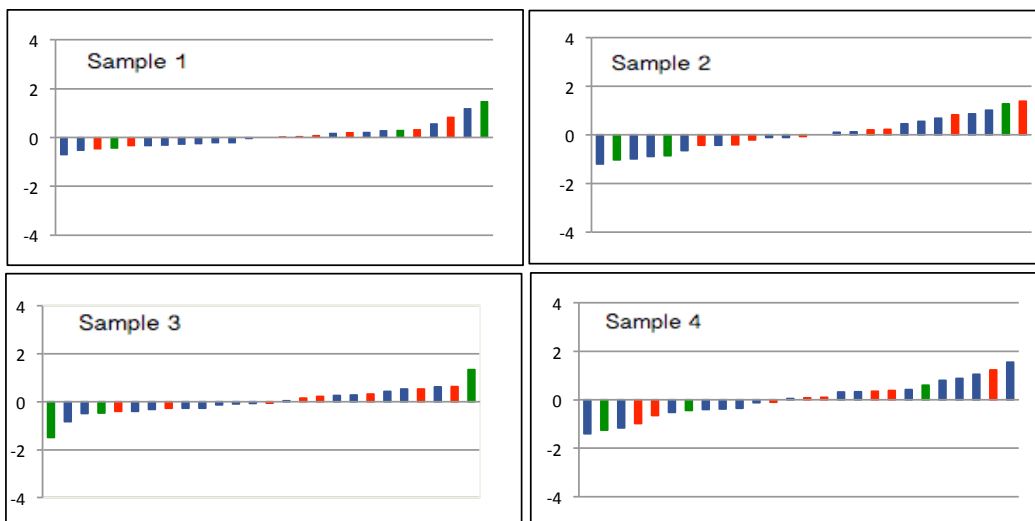
All summary stats and the plots below are based on the data excluding any flagged outliers



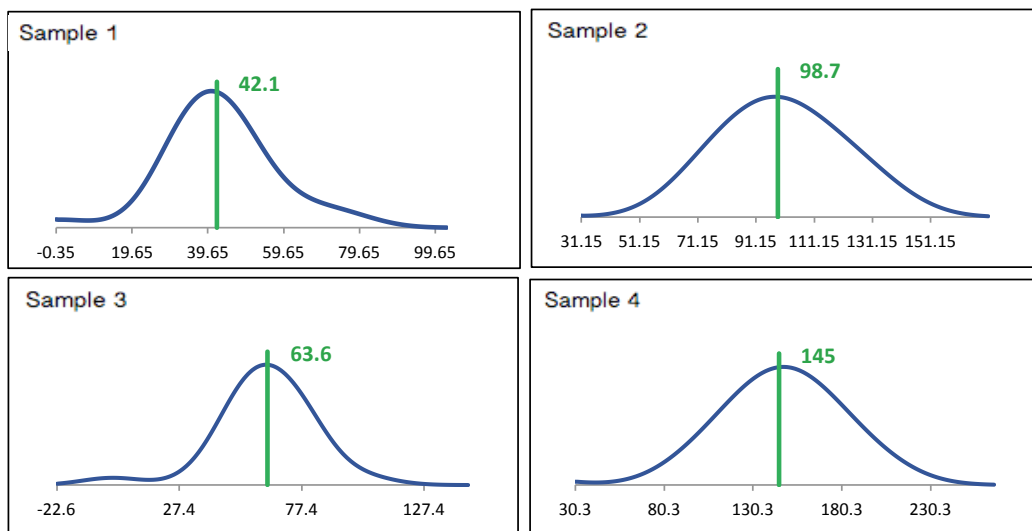
Annex A Summary by Analyte

METHYL ETHYL KETONE

z-Score Plots



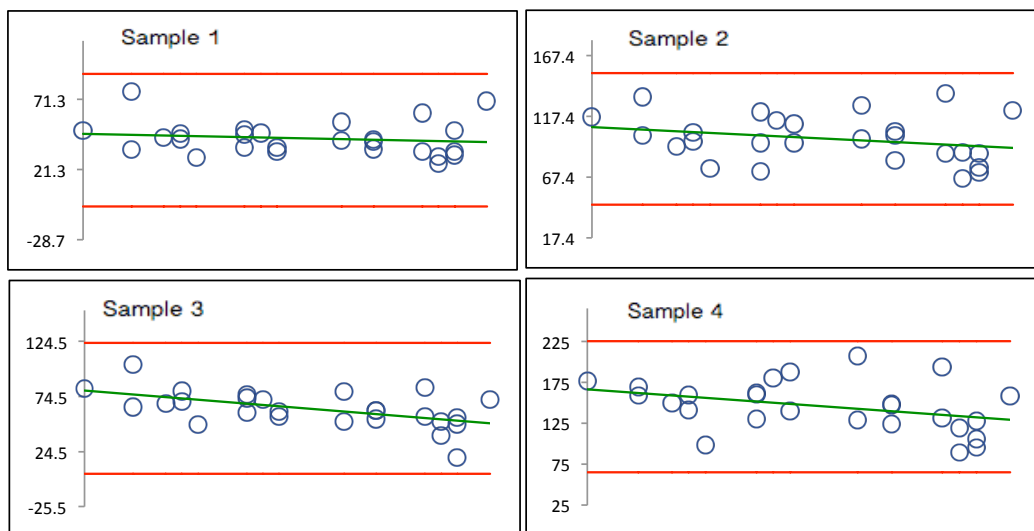
Kernel Density Plots



Annex A Summary by Analyte

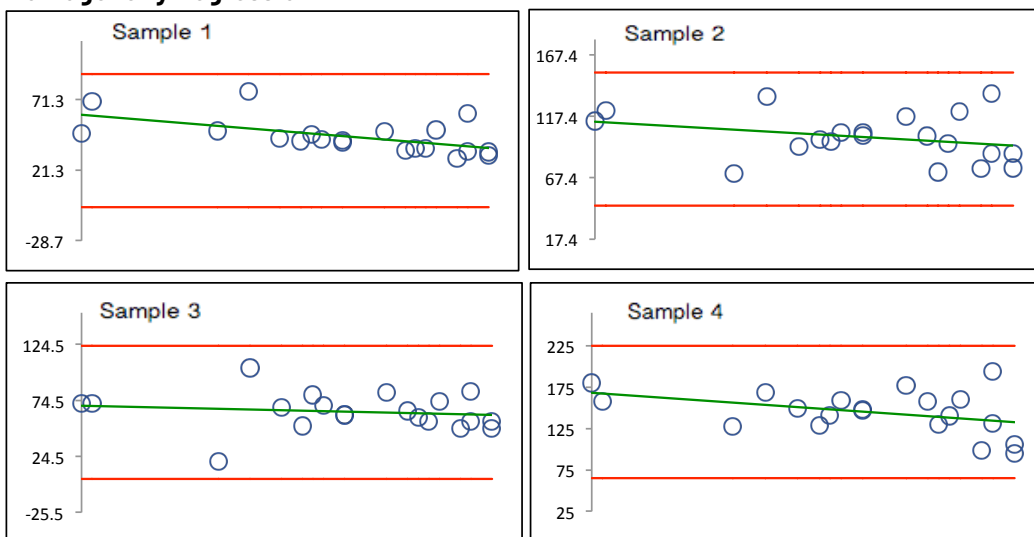
METHYL ETHYL KETONE

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).

Annex A Summary by Analyte

METHYL ISOBUTYL KETONE (MIBK)

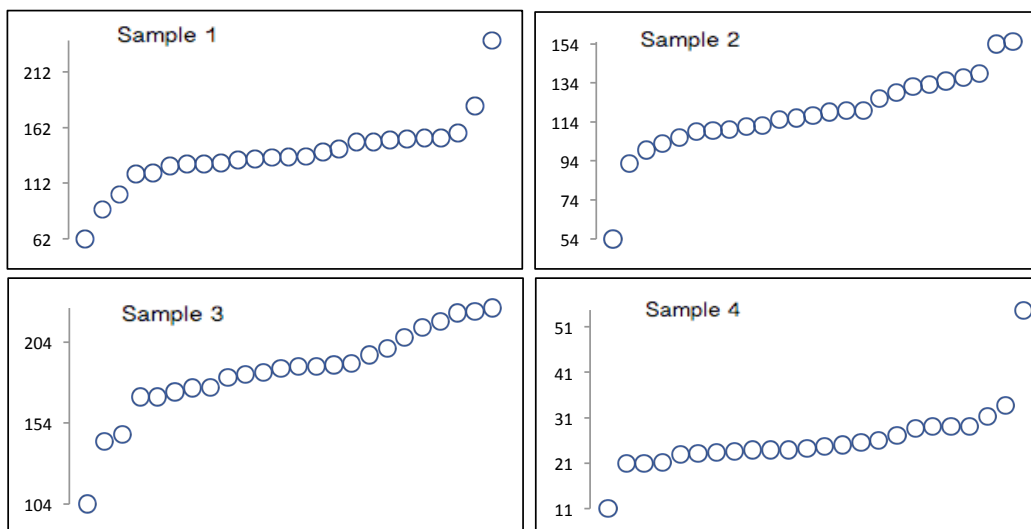
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	25	25	24	24
Median	135	117	189	24.5
Robust Mean	137	119	188	25.4
U	4.58	4.18	6.38	1.01
Robust Standard Deviation	18.3	16.7	25.0	3.94
Regression Standard Deviation	30.9	26.8	42.4	5.71
Stability Flag				
Homogeneity Flag				
Standard Deviation Used	30.9	26.8	42.4	5.71
Outliers	1	1	2	1
$ z > 3.0$	1	0	0	1
$2 < z < 3$	1	1	0	1

Methods Used

Method	C36-1	C36-2	C36-3	C36-4
P/T-GCMS	17	17	17	16
GC/MSE	1	1	1	1
HS-GCMS	7	7	6	7

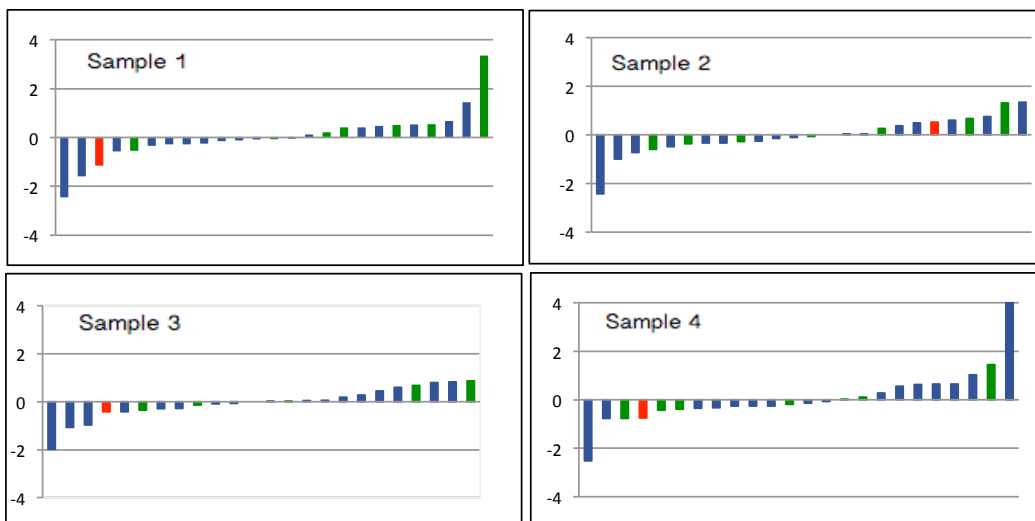
All summary stats and the plots below are based on the data excluding any flagged outliers



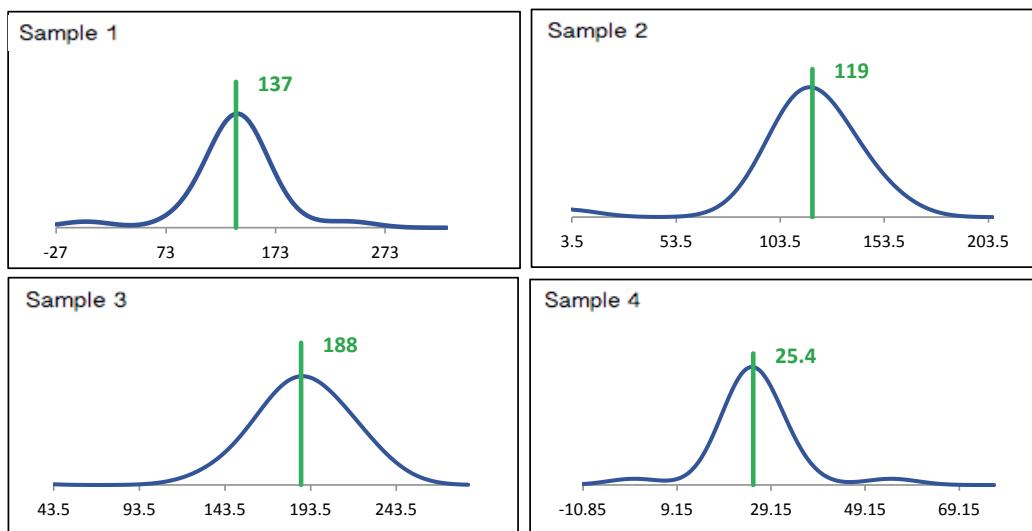
Annex A Summary by Analyte

METHYL ISOBUTYL KETONE (MIBK)

z-Score Plots



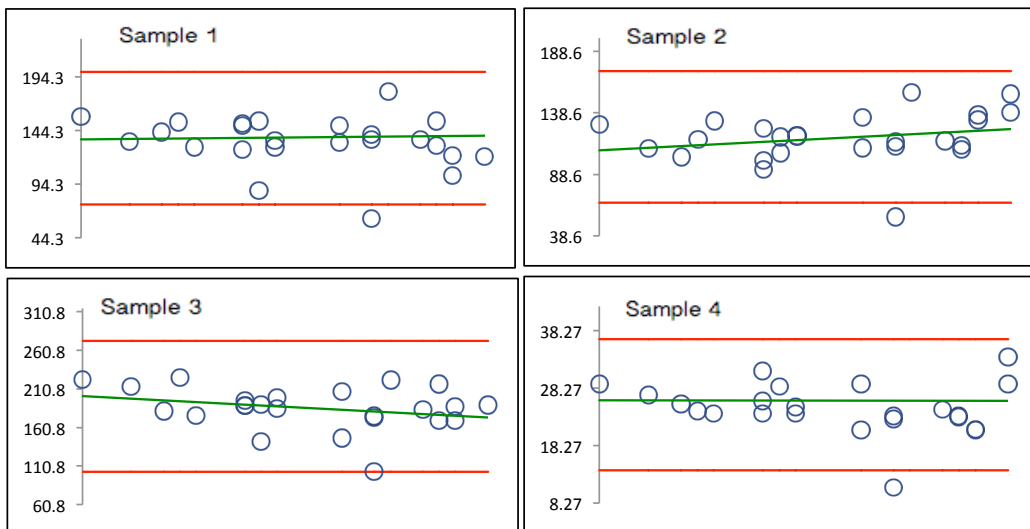
Kernel Density Plots



Annex A Summary by Analyte

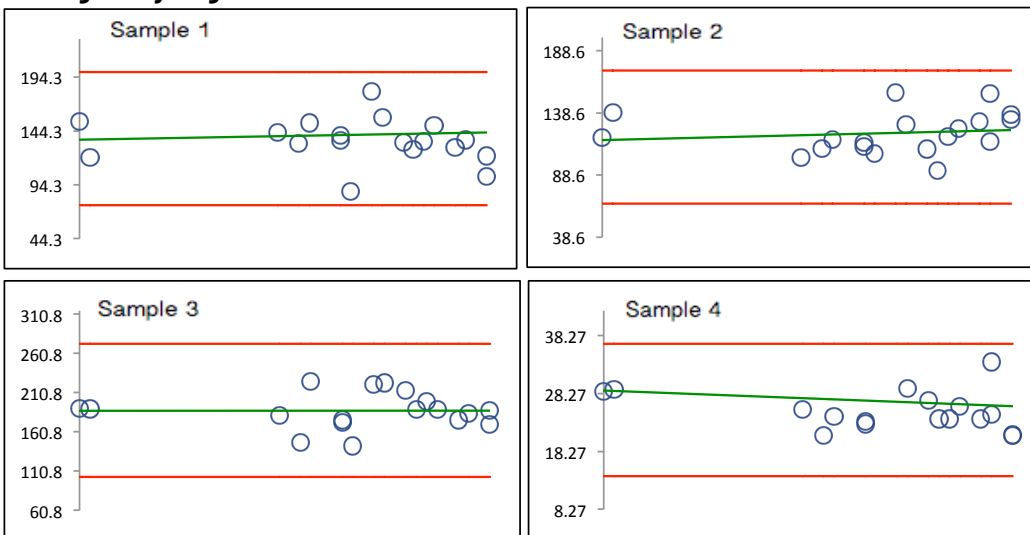
METHYL ISOBUTYL KETONE (MIBK)

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).

Annex A Summary by Analyte

METHYL T-BUTYL ETHER

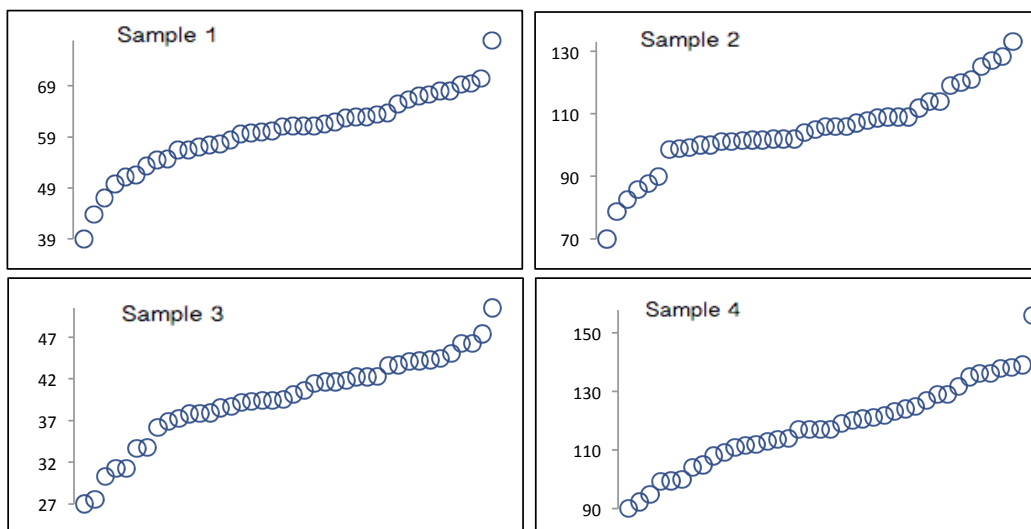
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	40	40	40	40
Median	61.0	105	39.9	118.0
Robust Mean	60.3	105	40.0	119.0
U	1.38	2.35	0.98	3.04
Robust Standard Deviation	6.96	11.9	4.98	15.4
Regression Standard Deviation	12.1	21.0	7.99	23.8
Stability Flag				
Homogeneity Flag				
Standard Deviation Used	12.1	21.0	7.99	23.8
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
P/T-GCMS	18	18	18	18
HS-GCMS	14	14	14	14
GC/MSE	7	7	7	7
GC/MSF/HS	1	1	1	1

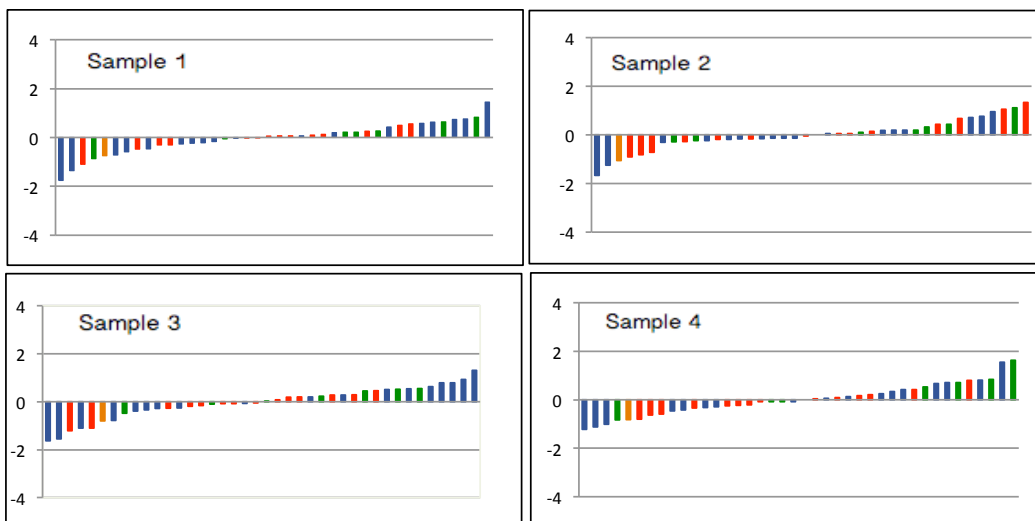
All summary stats and the plots below are based on the data excluding any flagged outliers



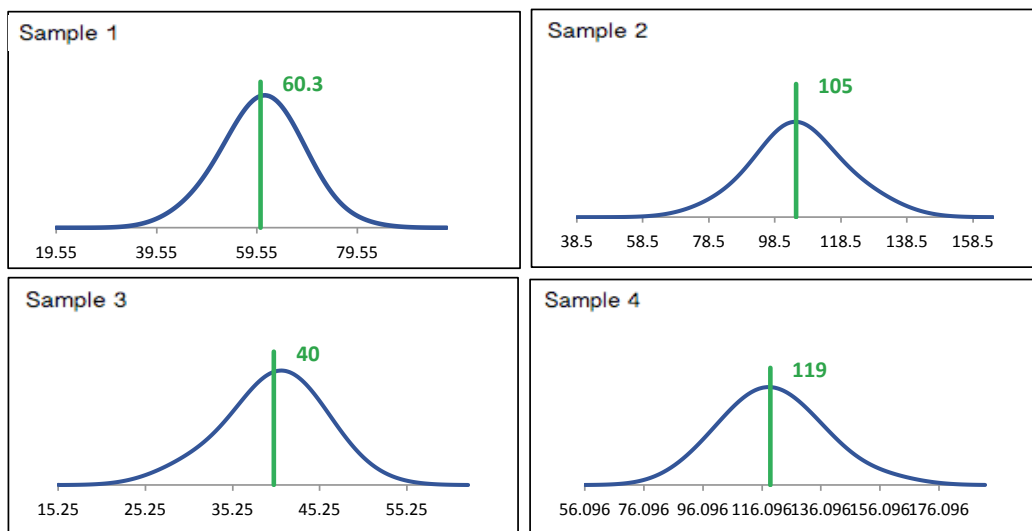
Annex A Summary by Analyte

METHYL T-BUTYL ETHER

z-Score Plots



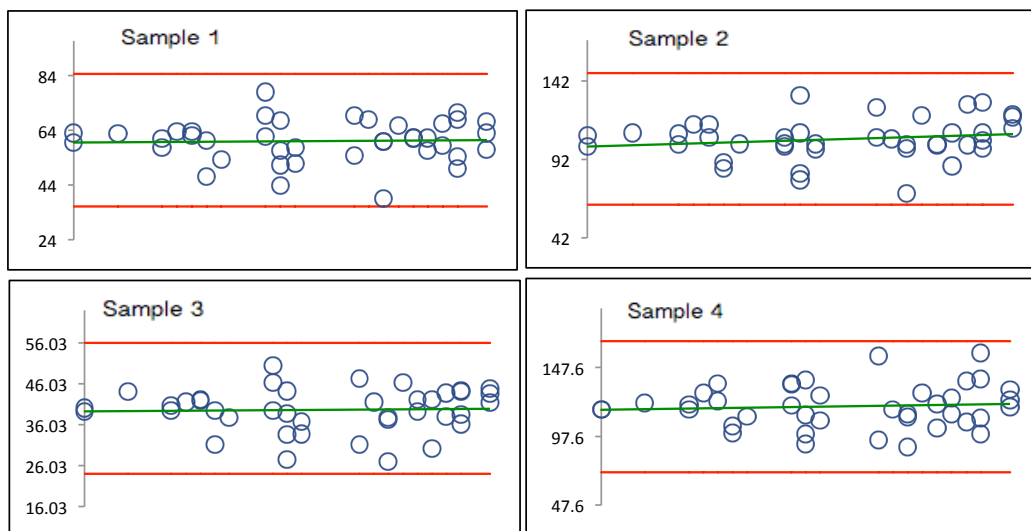
Kernel Density Plots



Annex A Summary by Analyte

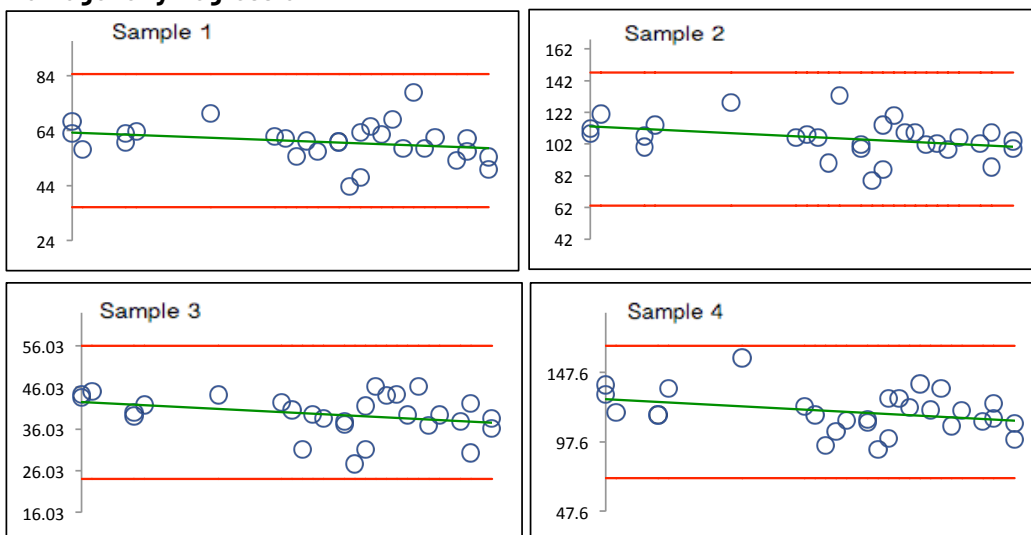
METHYL T-BUTYL ETHER

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).

Annex A Summary by Analyte

O-XYLENE

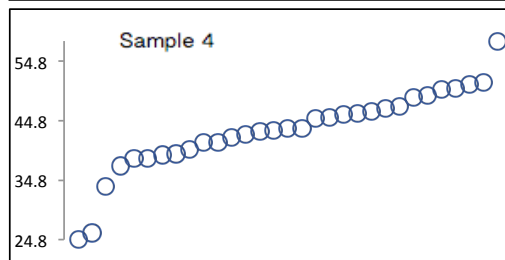
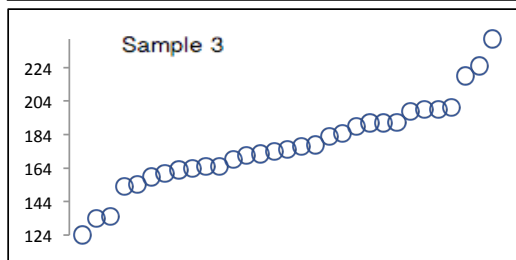
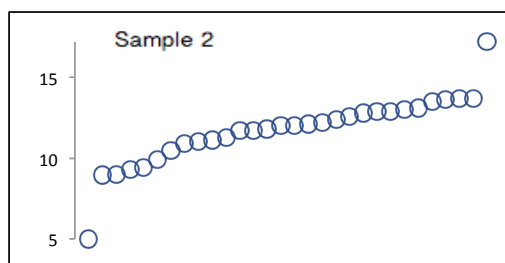
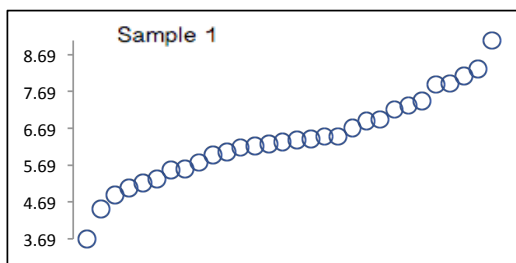
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	30	30	31	31
Median	6.34	12.0	175	43.5
Robust Mean	6.40	11.8	177	43.6
U	0.27	0.40	5.19	1.28
Robust Standard Deviation	1.20	1.74	23.1	5.68
Regression Standard Deviation	1.12	2.06	31.0	7.63
Stability Flag				
Homogeneity Flag				
Standard Deviation Used	1.20	2.06	31.0	7.63
Outliers	0	0	0	0
$ z > 3.0$	0	1	0	0
$2 < z < 3$	2	1	1	2

Methods Used

Method	C36-1	C36-2	C36-3	C36-4
HS-GCMS	8	8	9	9
P/T-GCMS	15	15	15	15
GC/MSE	6	6	6	6
GC/MSF/HS	1	1	1	1

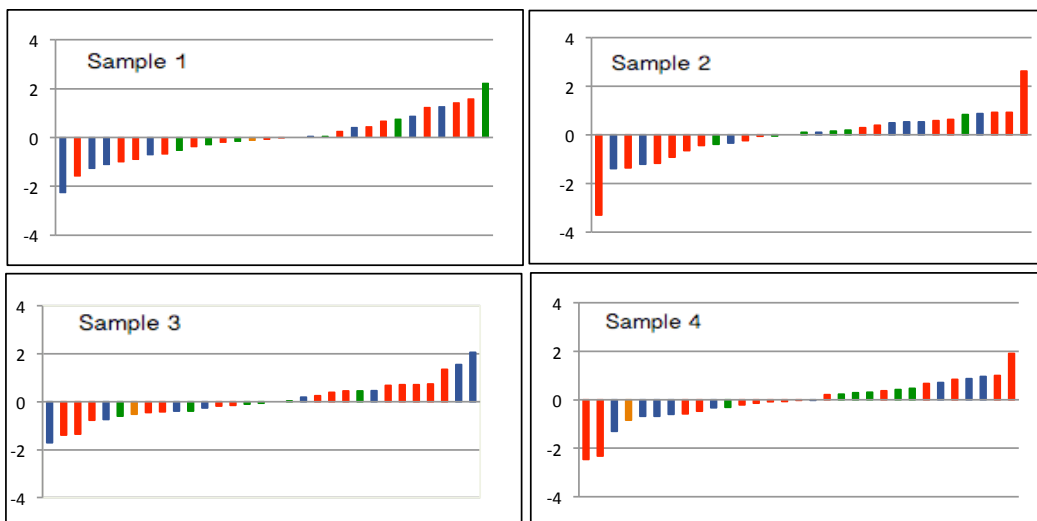
All summary stats and the plots below are based on the data excluding any flagged outliers



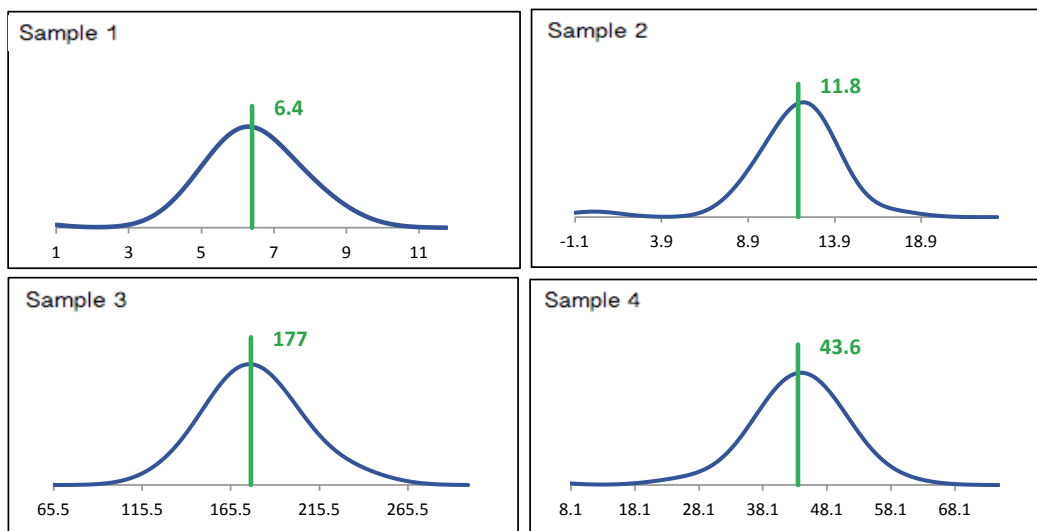
Annex A Summary by Analyte

O-XYLENE

z-Score Plots



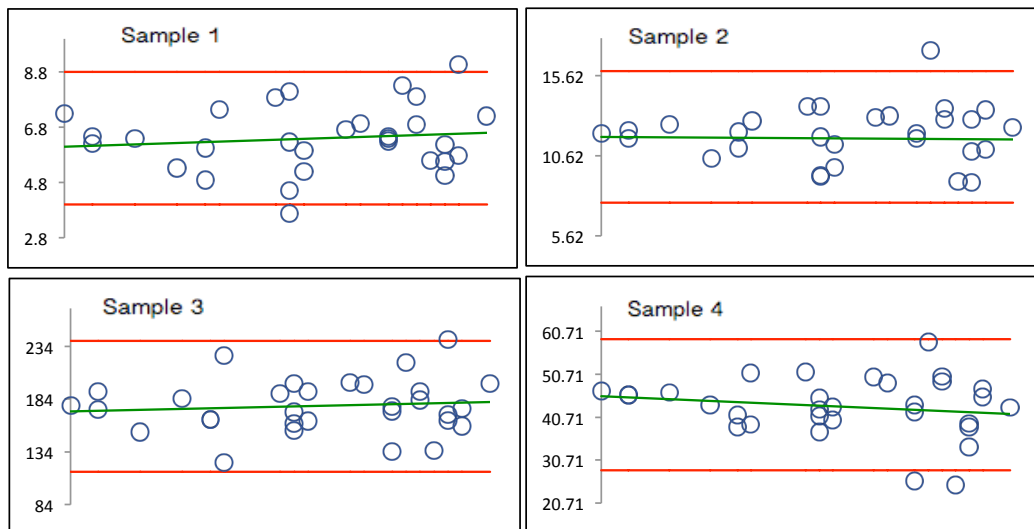
Kernel Density Plots



Annex A Summary by Analyte

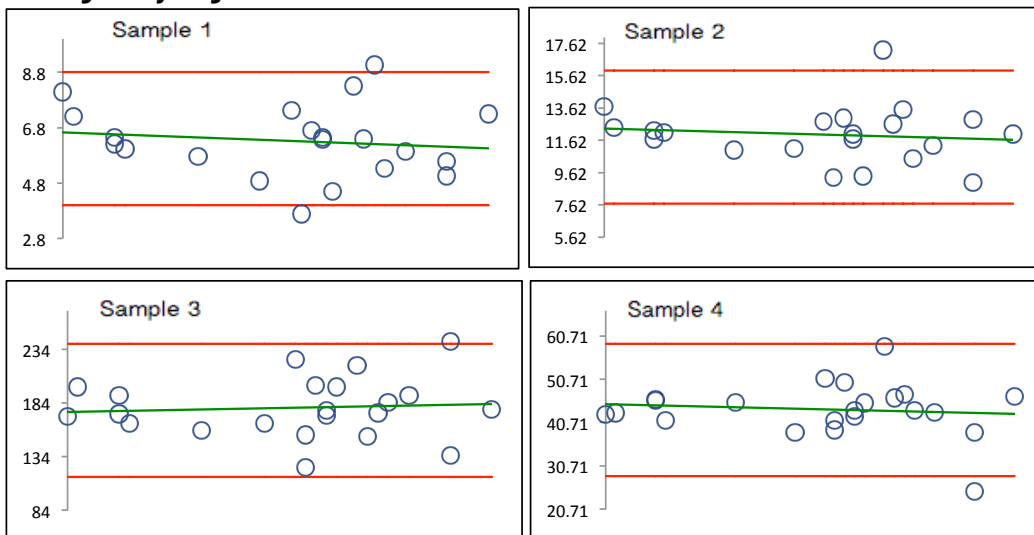
O-XYLENE

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).

Annex A Summary by Analyte

STYRENE

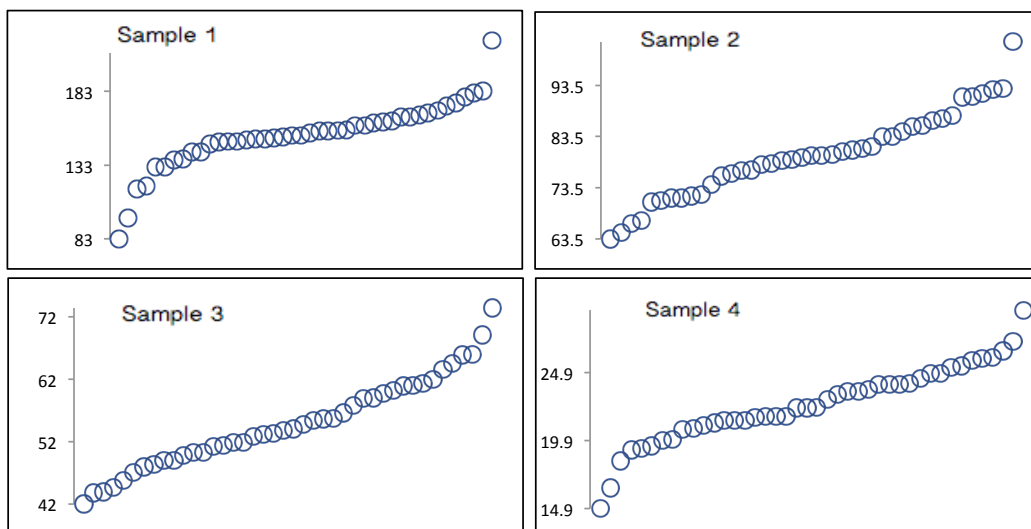
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	42	41	42	42
Median	154	79.8	53.9	22.3
Robust Mean	154	79.7	54.7	22.6
U	3.28	1.71	1.46	0.53
Robust Standard Deviation	17.0	8.75	7.59	2.72
Regression Standard Deviation	27.0	14.0	9.57	3.96
Stability Flag				
Homogeneity Flag				
Standard Deviation Used	27.0	14.0	9.57	3.96
Outliers	0	1	0	0
$ z > 3.0$	0	0	0	0
$2 < z < 3$	3	0	0	0

Methods Used

Method	C36-1	C36-2	C36-3	C36-4
P/T-GCMS	18	17	18	18
HS-GCMS	14	14	14	14
GC/MSF/HS	1	1	1	1
GC/MSE	8	8	8	8
GC/MSF	1	1	1	1

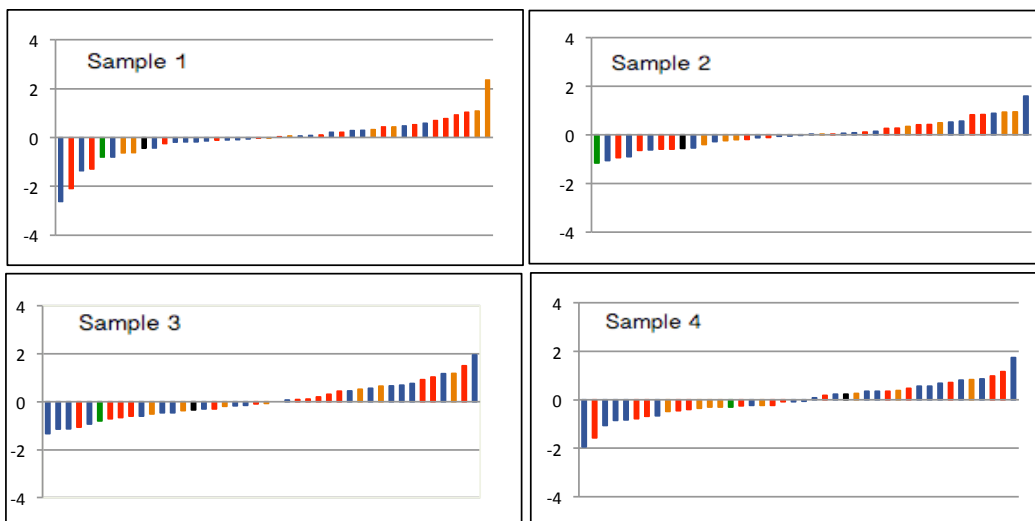
All summary stats and the plots below are based on the data excluding any flagged outliers



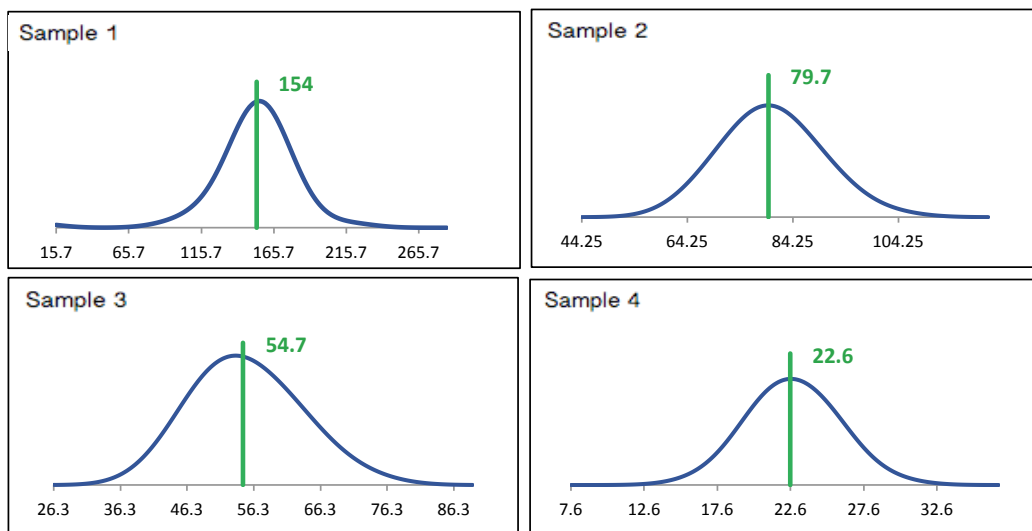
Annex A Summary by Analyte

STYRENE

z-Score Plots



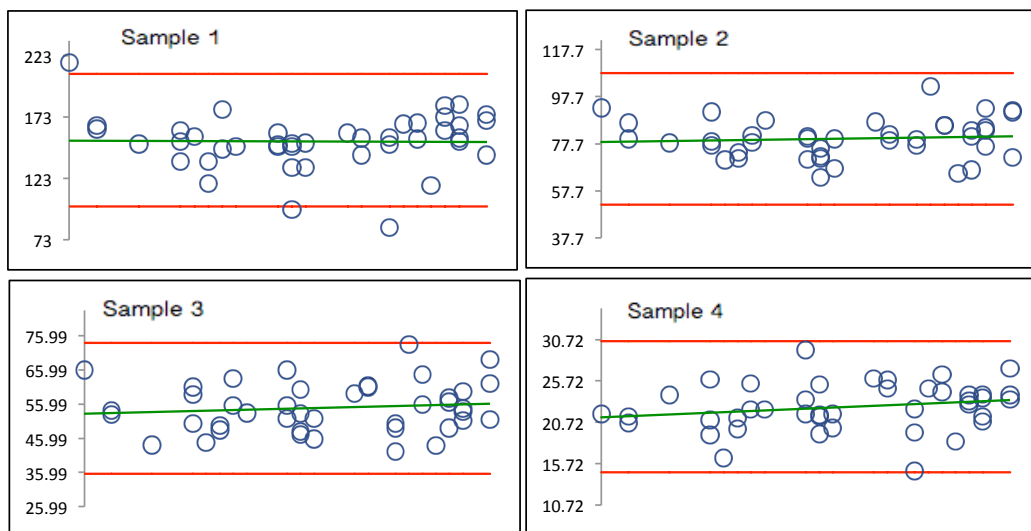
Kernel Density Plots



Annex A Summary by Analyte

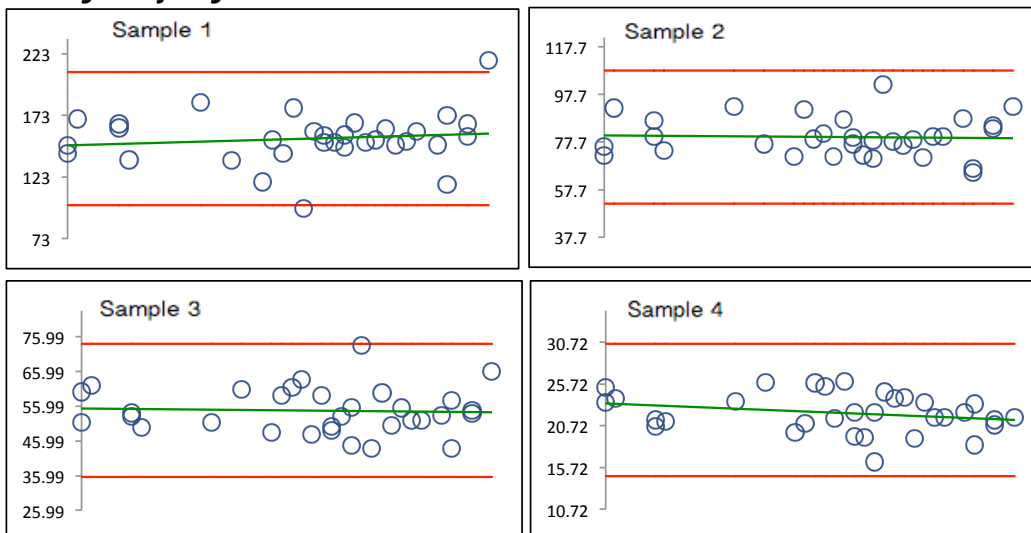
STYRENE

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).

Annex A Summary by Analyte

TETRACHLOROETHYLENE

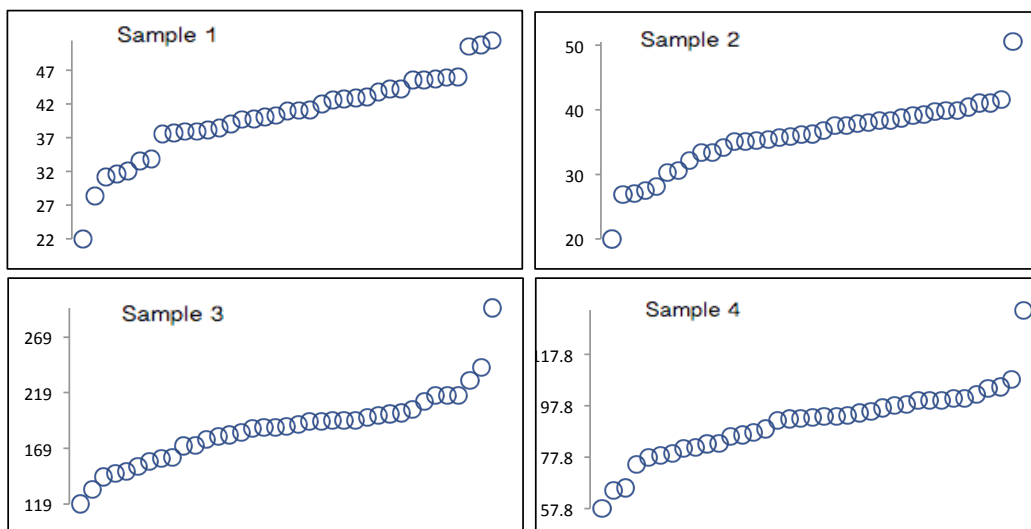
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	37	37	37	37
Median	40.9	36.2	189	93.2
Robust Mean	40.5	36.0	186	91.2
U	1.19	0.92	5.82	2.36
Robust Standard Deviation	5.77	4.48	28.3	11.5
Regression Standard Deviation	9.11	8.10	41.8	20.5
Stability Flag				
Homogeneity Flag				
Standard Deviation Used	9.11	8.10	41.8	20.5
Outliers	0	0	0	0
$ z > 3.0$	0	0	0	0
$2 < z < 3$	1	0	1	1

Methods Used

Method	C36-1	C36-2	C36-3	C36-4
P/T-GCMS	18	18	18	18
GC/MSE	7	7	7	7
HS-GCMS	12	12	12	12

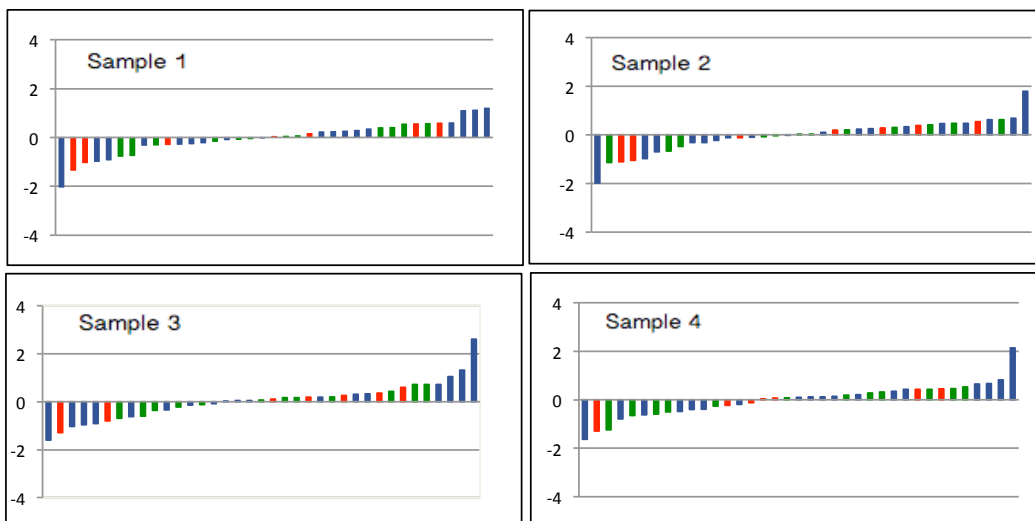
All summary stats and the plots below are based on the data excluding any flagged outliers



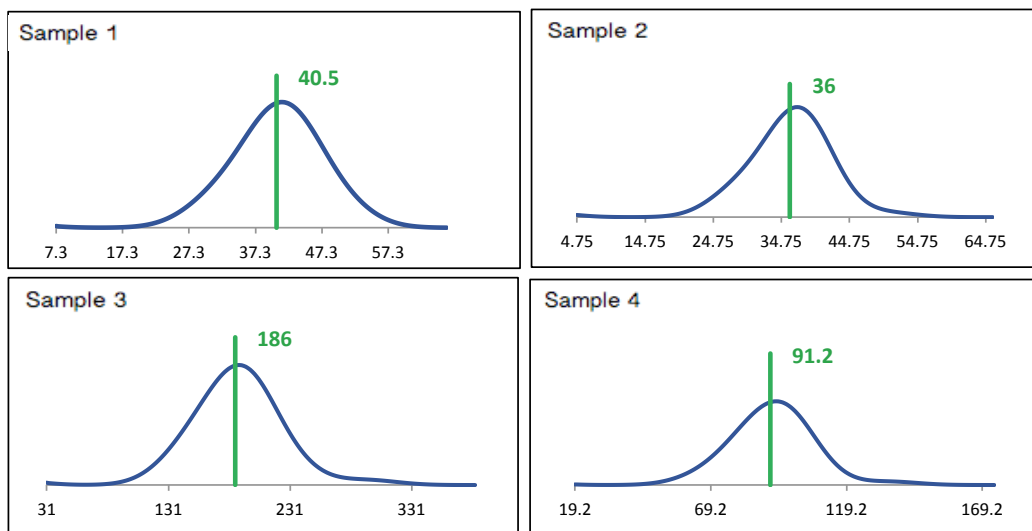
Annex A Summary by Analyte

TETRACHLOROETHYLENE

z-Score Plots



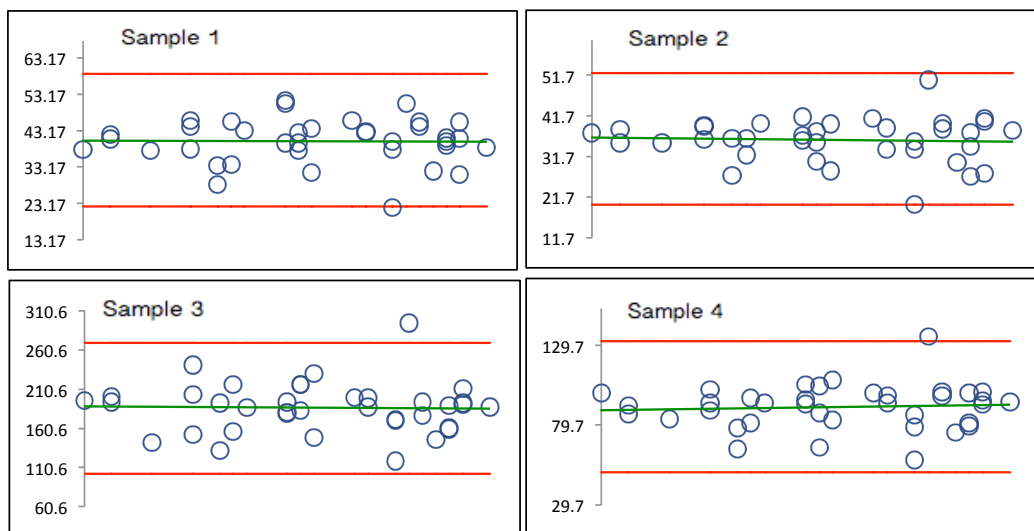
Kernel Density Plots



Annex A Summary by Analyte

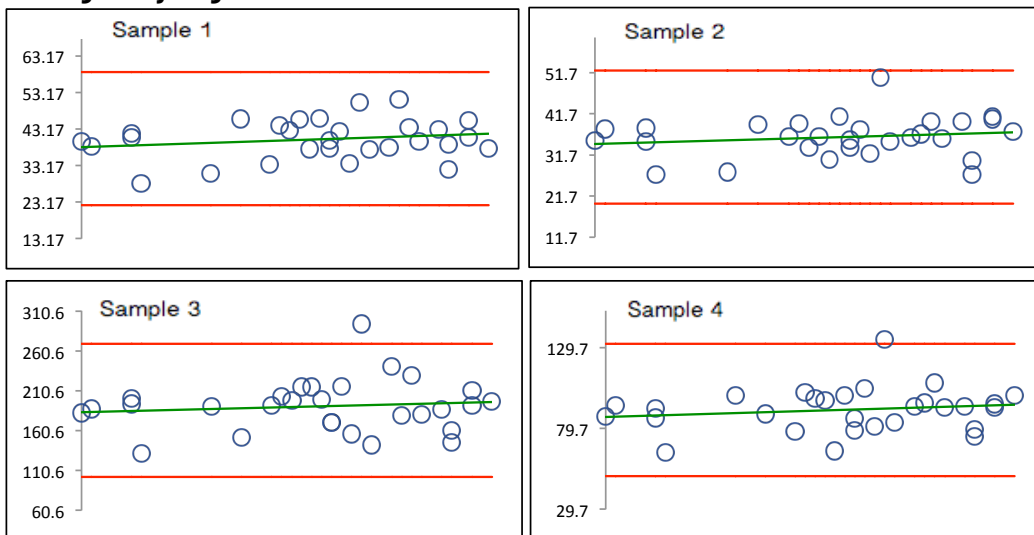
TETRACHLOROETHYLENE

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).

Annex A Summary by Analyte

TOLUENE

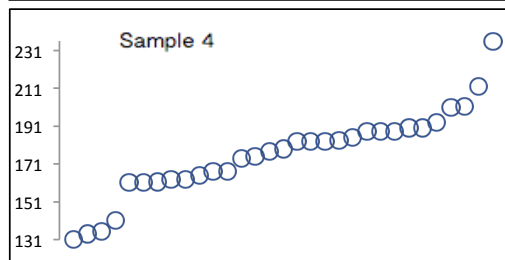
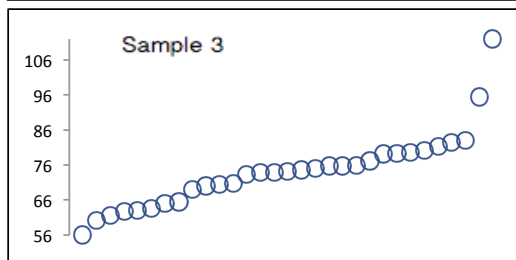
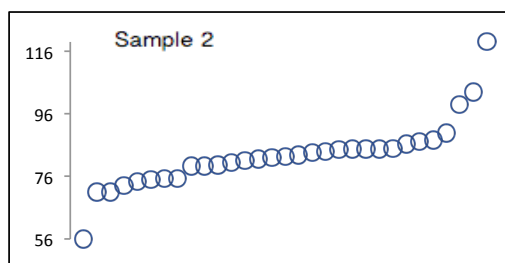
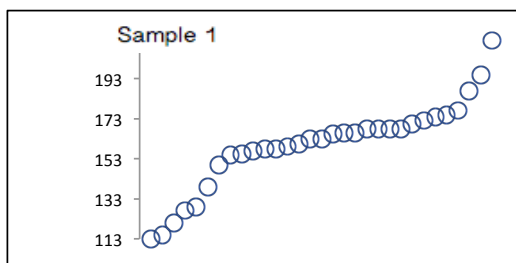
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	31	31	31	31
Median	163	82.4	74.1	179
Robust Mean	161	81.8	73.2	176
U	4.09	1.56	1.93	4.49
Robust Standard Deviation	18.2	6.96	8.61	20.0
Regression Standard Deviation	28.1	14.3	12.8	30.9
Stability Flag				
Homogeneity Flag				
Standard Deviation Used	28.1	14.3	12.8	30.9
Outliers	0	0	0	0
$ z > 3.0$	0	0	1	0
$2 < z < 3$	0	1	0	0

Methods Used

Method	C36-1	C36-2	C36-3	C36-4
HS-GCMS	9	9	9	9
P/T-GCMS	15	15	15	15
GC/MSF/HS	1	1	1	1
GC/MSE	6	6	6	6

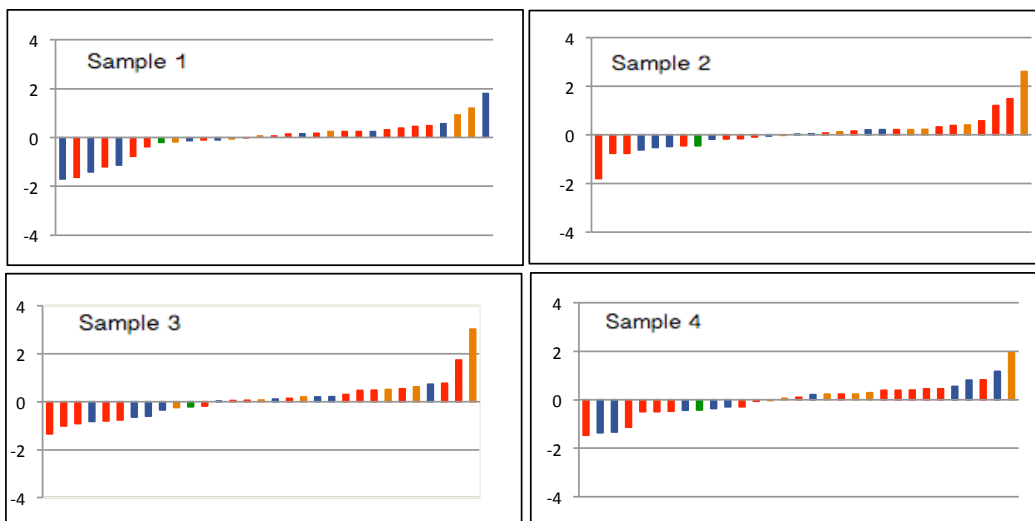
All summary stats and the plots below are based on the data excluding any flagged outliers



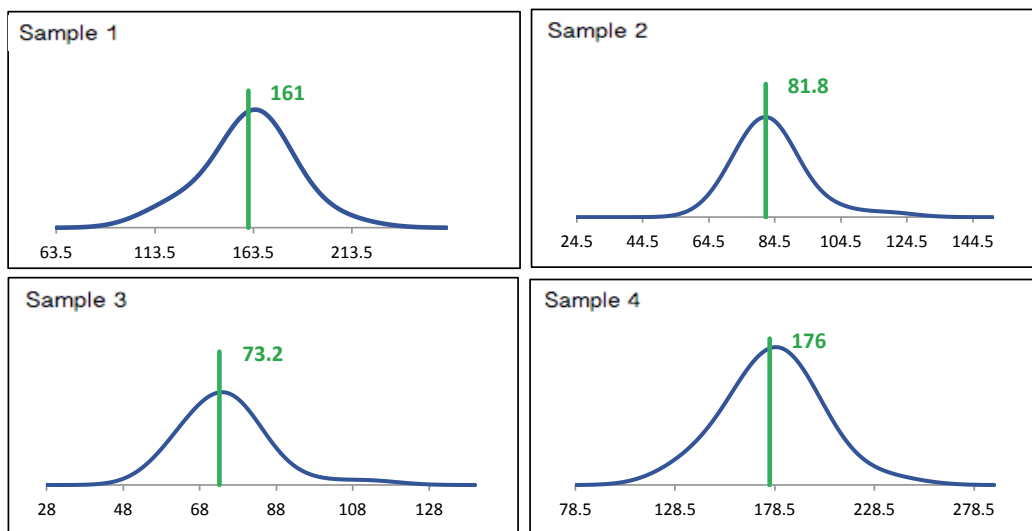
Annex A Summary by Analyte

TOLUENE

z-Score Plots



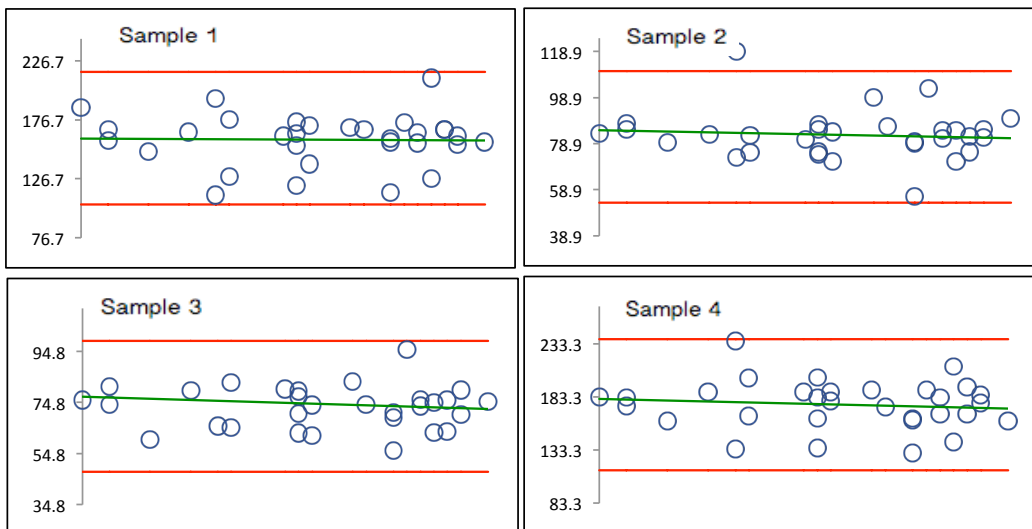
Kernel Density Plots



Annex A Summary by Analyte

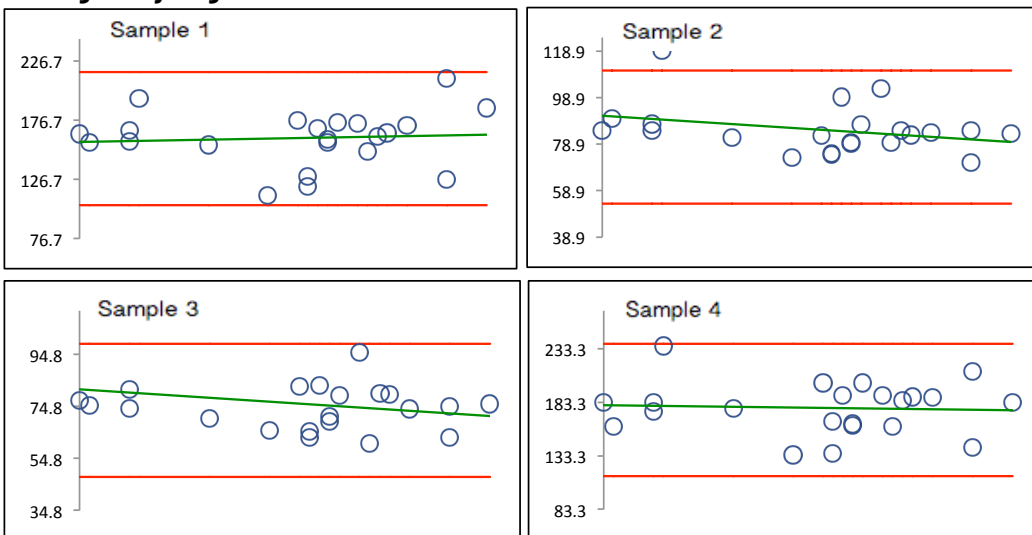
TOLUENE

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).

Annex A Summary by Analyte

TRANS-1,2-DICHLOROETHYLENE

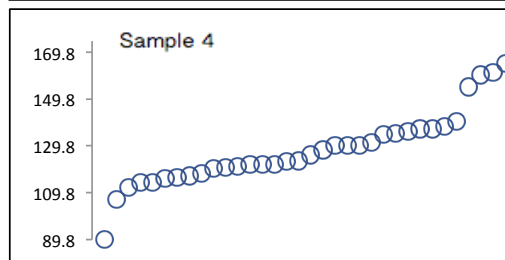
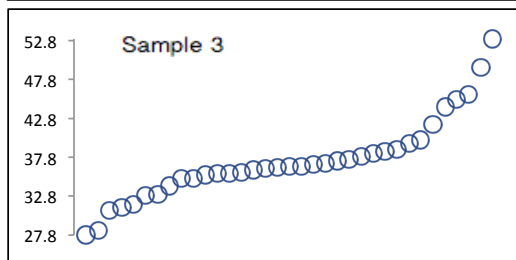
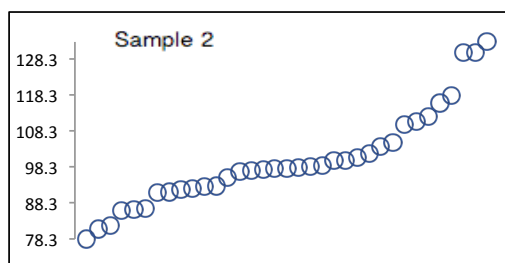
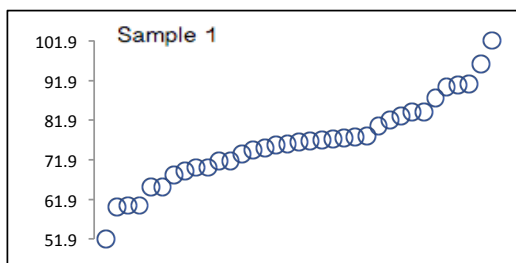
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	35	35	35	35
Median	76.3	97.7	36.6	126
Robust Mean	76.0	98.9	36.9	128
U	2.26	2.56	0.91	2.92
Robust Standard Deviation	10.7	12.10	4.29	13.8
Regression Standard Deviation	13.3	17.3	6.45	22.4
Stability Flag				
Homogeneity Flag				
Standard Deviation Used	13.3	17.3	6.45	22.4
Outliers	0	0	0	0
$ z > 3.0$	0	0	0	0
$2 < z < 3$	0	0	1	1

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	6	6	6	6

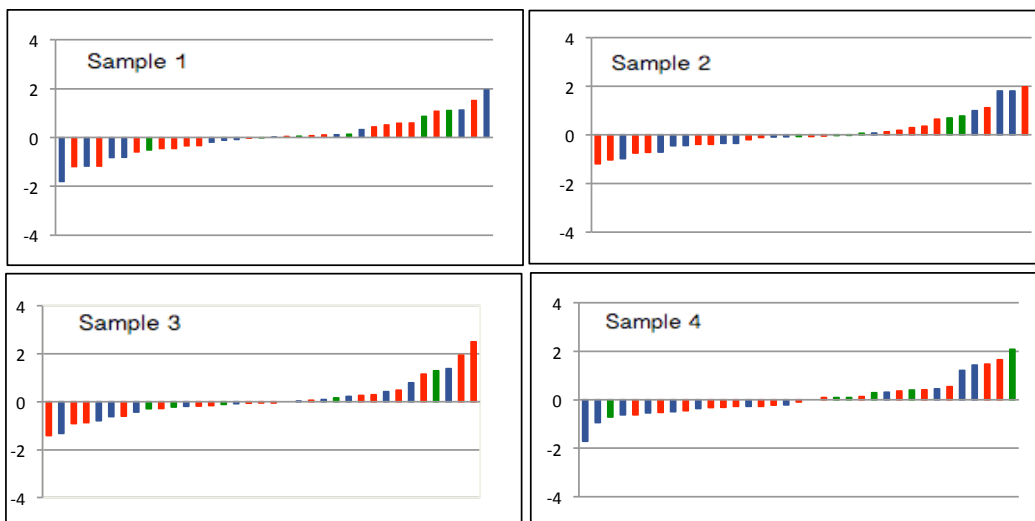
All summary stats and the plots below are based on the data excluding any flagged outliers



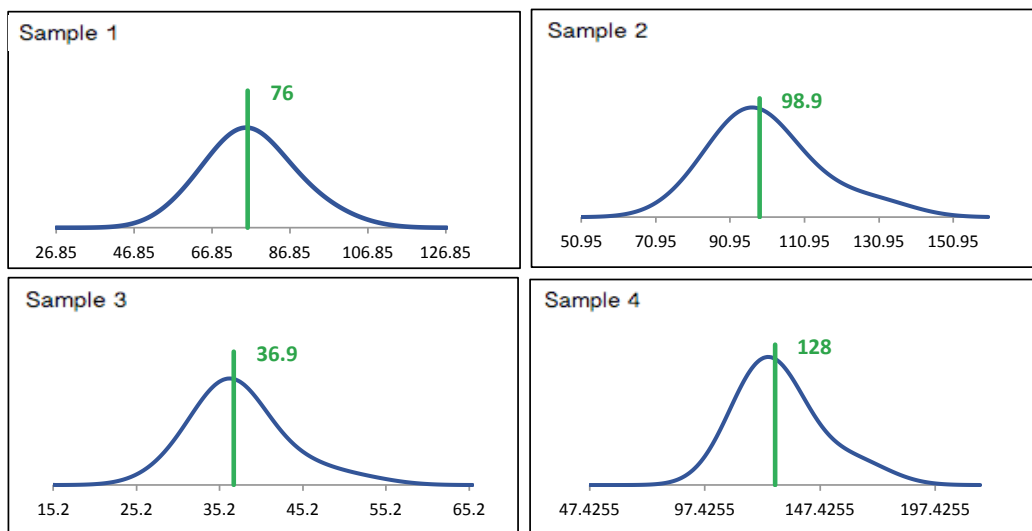
Annex A Summary by Analyte

TRANS-1,2-DICHLOROETHYLENE

z-Score Plots



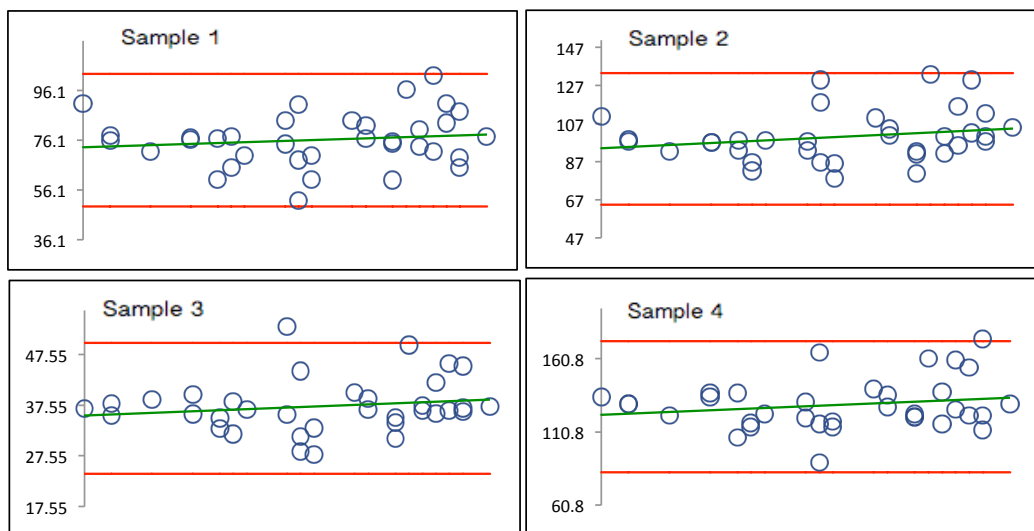
Kernel Density Plots



Annex A Summary by Analyte

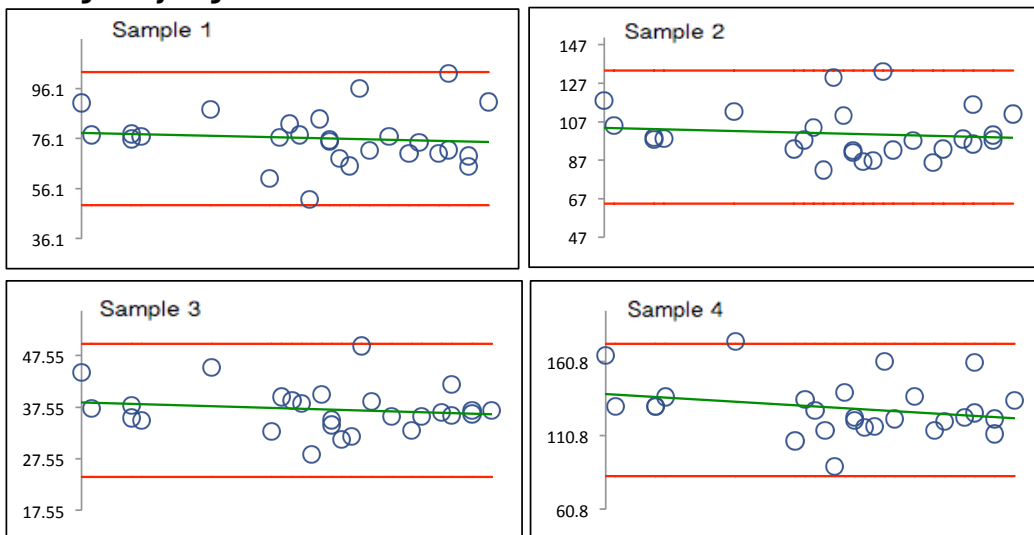
TRANS-1,2-DICHLOROETHYLENE

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).

Annex A Summary by Analyte

TRANS-1,3-DICHLOROPROPENE

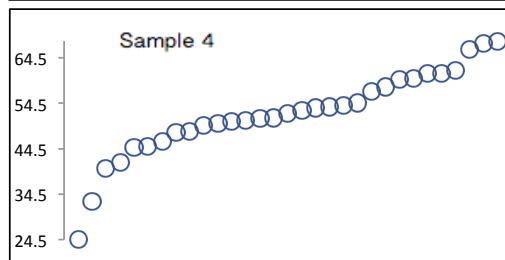
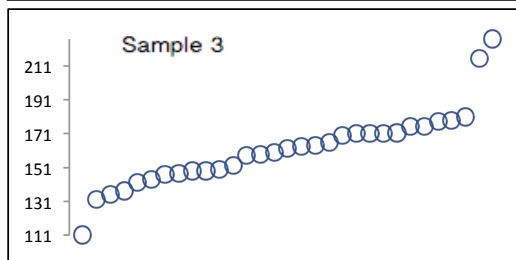
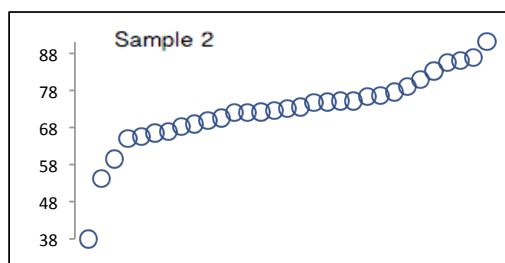
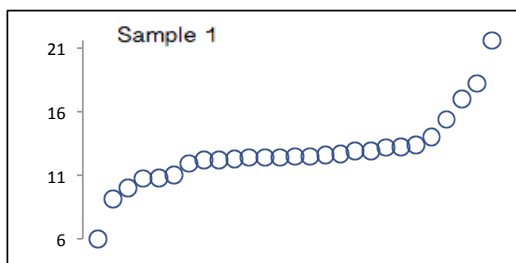
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	27	31	31	31
Median	12.5	73.1	162	52.3
Robust Mean	12.5	73.5	160	52.7
U	0.41	1.85	4.09	1.94
Robust Standard Deviation	1.72	8.25	18.2	8.64
Regression Standard Deviation	2.19	12.9	28.0	9.22
Stability Flag				
Homogeneity Flag				
Standard Deviation Used	2.19	12.9	28.0	9.22
Outliers	3	0	0	0
$ z > 3.0$	1	0	0	1
$2 < z < 3$	3	1	1	1

Methods Used

Method	C36-1	C36-2	C36-3	C36-4
P/T-GCMS	14	16	16	16
HS-GCMS	10	10	10	10
GC/MSE	3	5	5	5

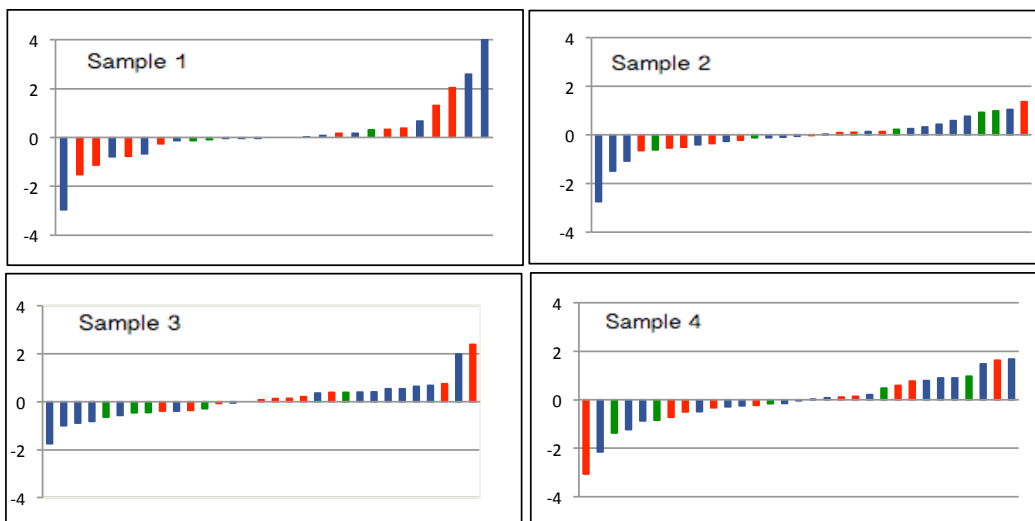
All summary stats and the plots below are based on the data excluding any flagged outliers



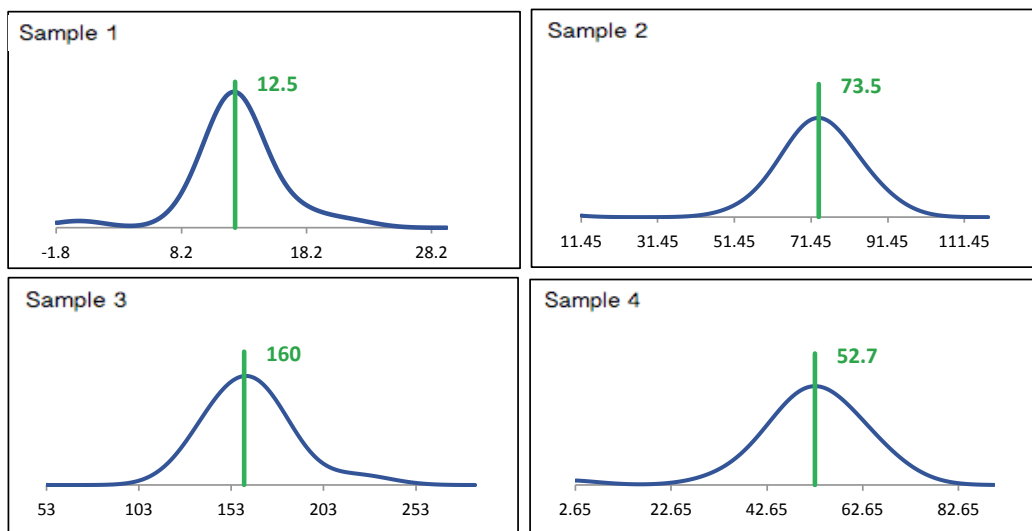
Annex A Summary by Analyte

TRANS-1,3-DICHLOROPROPENE

z-Score Plots



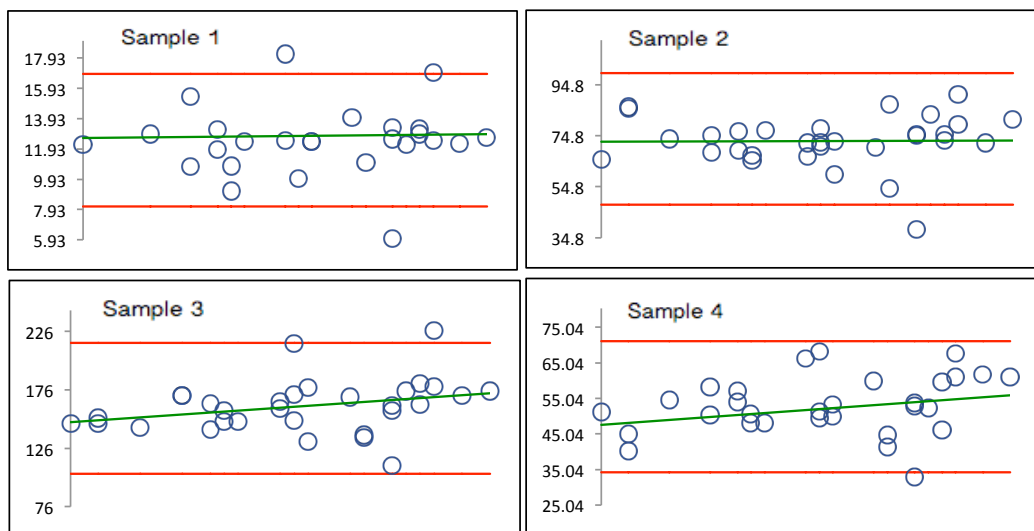
Kernel Density Plots



Annex A Summary by Analyte

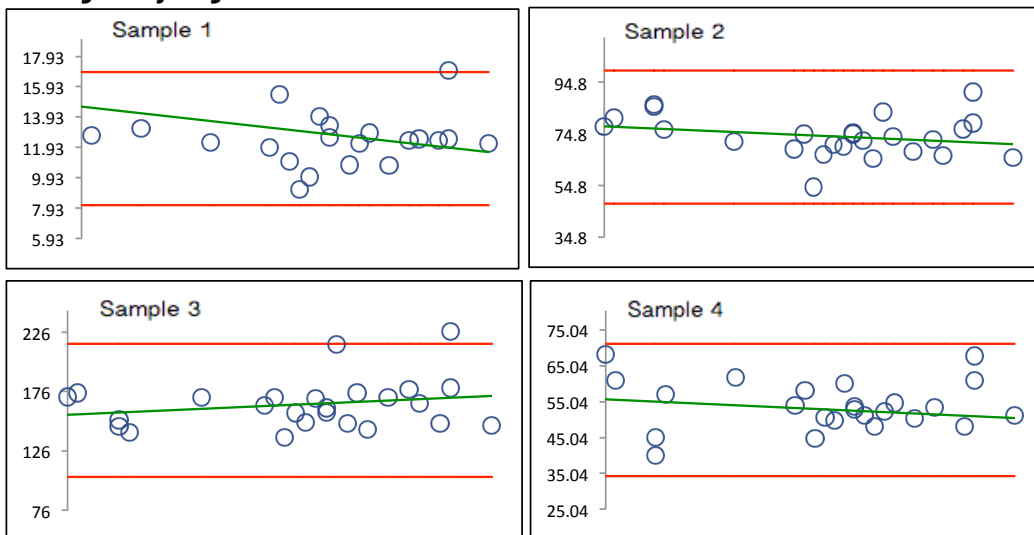
TRANS-1,3-DICHLOROPROPENE

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).

Annex A Summary by Analyte

TRICHLOROETHYLENE

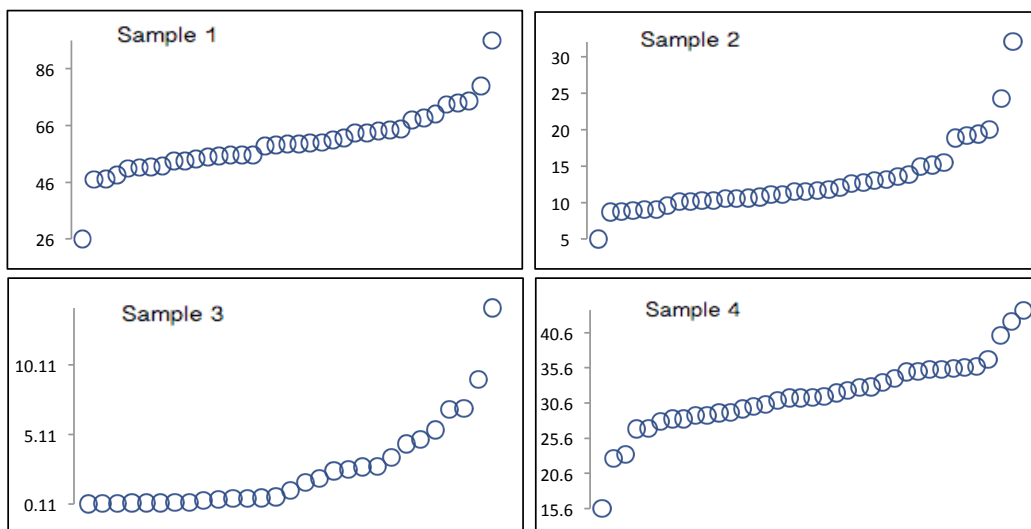
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	37	37	29	37
Median	59.4	11.5	1.10	31.4
Robust Mean	59.6	12.2	2.08	31.7
U	1.93	0.66	0.56	0.86
Robust Standard Deviation	9.39	3.19	2.39	4.19
Regression Standard Deviation	11.9	2.44	0.417	6.35
Stability Flag				
Homogeneity Flag				
Standard Deviation Used	11.9	3.19	2.39	6.35
Outliers	0	0	2	0
$ z > 3.0$	1	2	1	0
$2 < z < 3$	1	5	3	1

Methods Used

Method	C36-1	C36-2	C36-3	C36-4
P/T-GCMS	18	18	15	18
HS-GCMS	12	12	9	12
GC/MSE	7	7	5	7

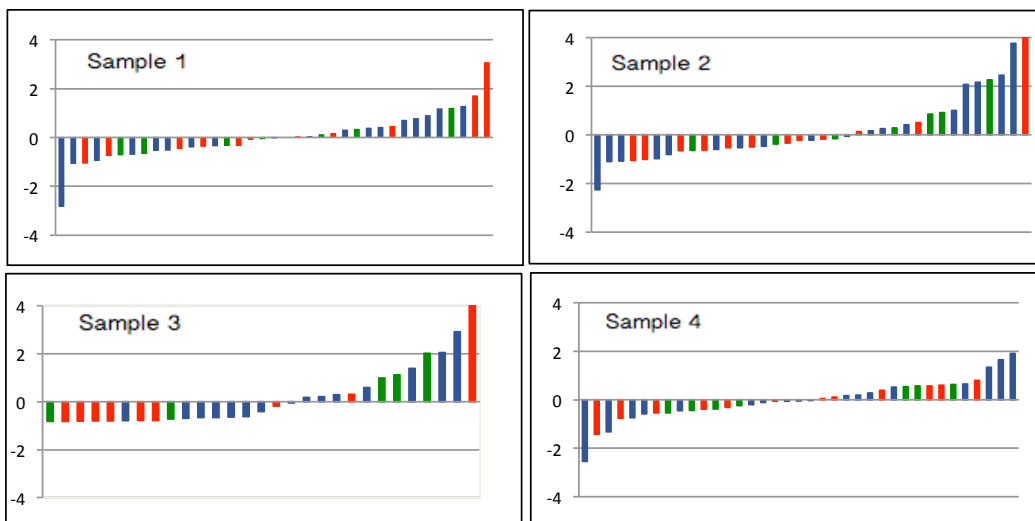
All summary stats and the plots below are based on the data excluding any flagged outliers



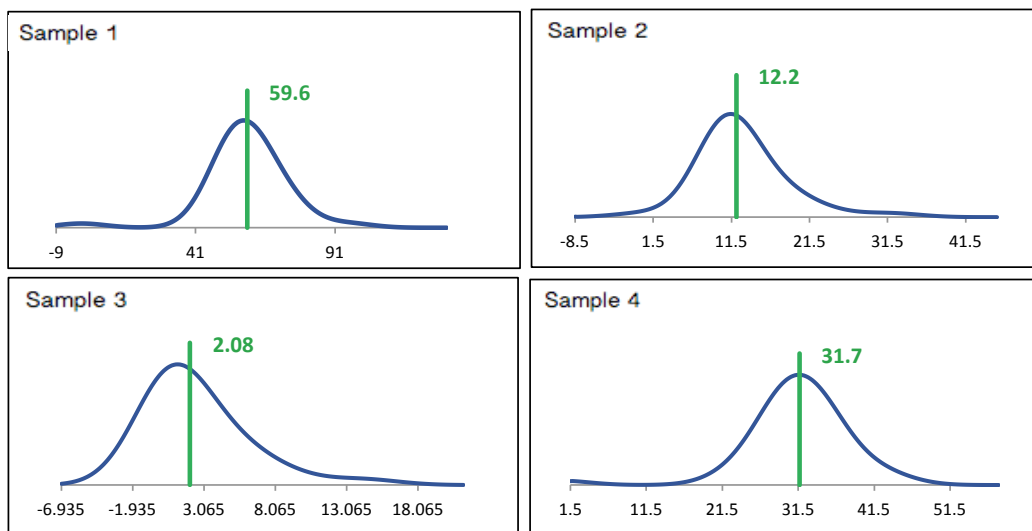
Annex A Summary by Analyte

TRICHLOROETHYLENE

z-Score Plots



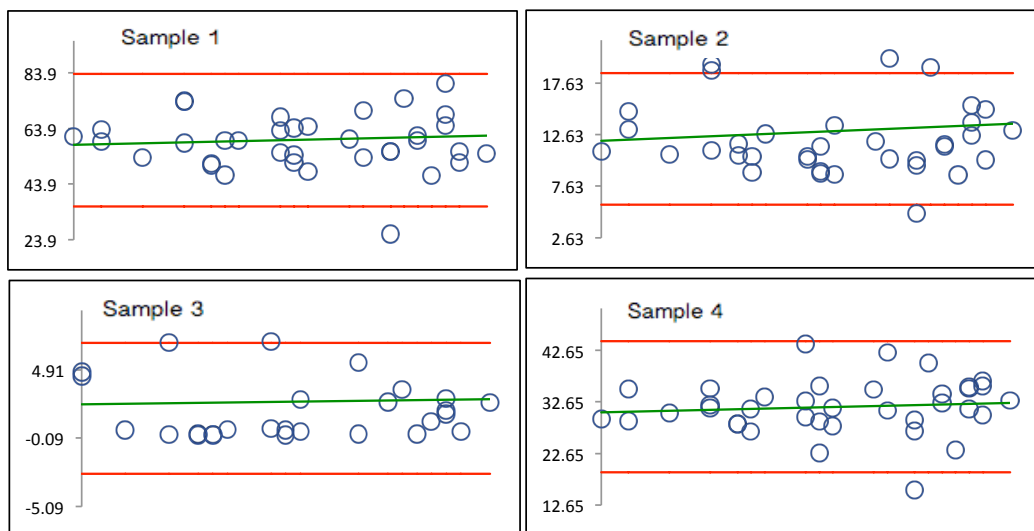
Kernel Density Plots



Annex A Summary by Analyte

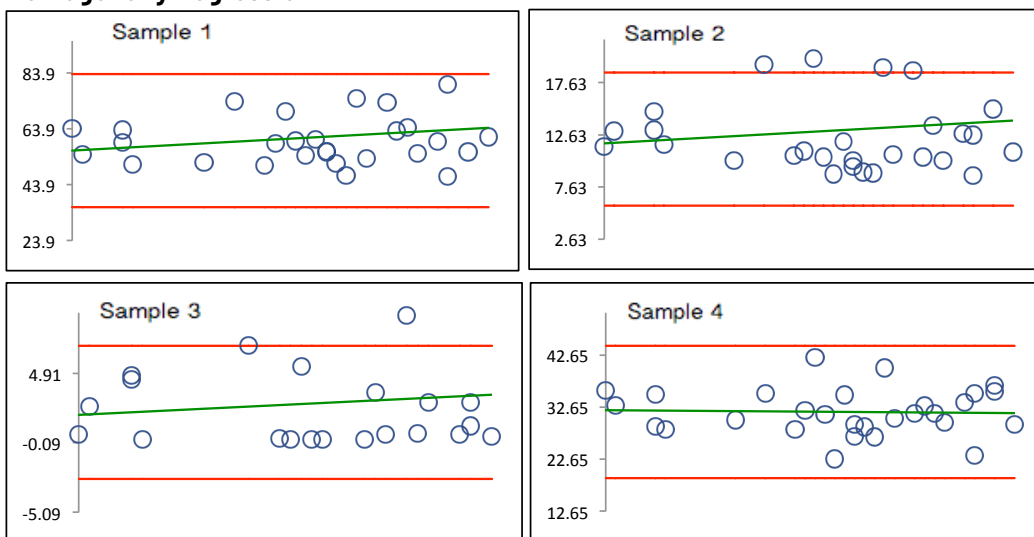
TRICHLOROETHYLENE

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).

Annex A Summary by Analyte

TRICHLOROFLUOROMETHANE

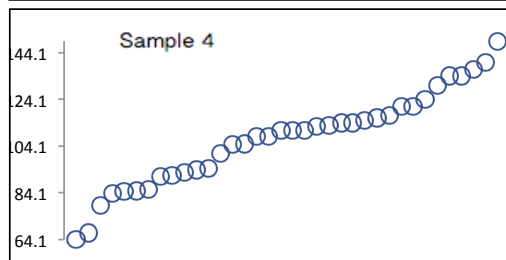
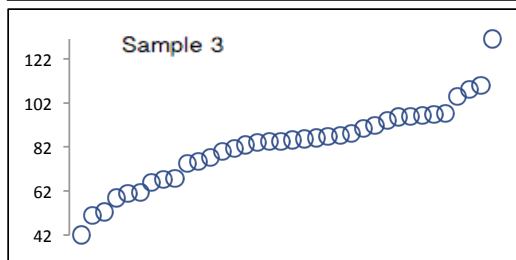
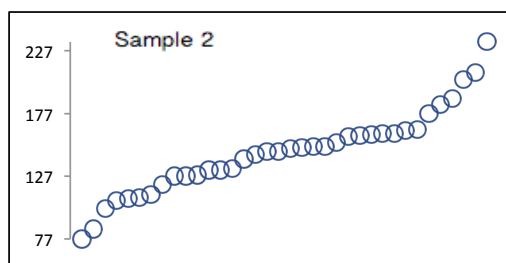
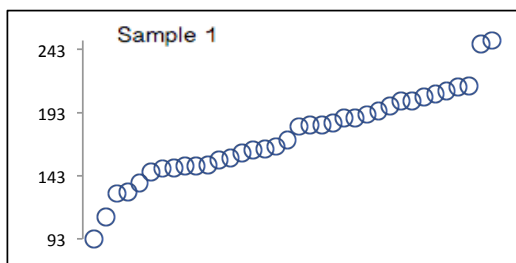
Summary Statistics

Statistic	C36-1	C36-2	C36-3	C36-4
N	36	36	36	36
Median	177	148	84.9	111
Robust Mean	174	145	82.9	108
U	6.94	6.50	3.65	4.33
Robust Standard Deviation	33.3	31.2	17.5	20.8
Regression Standard Deviation	43.6	36.2	20.7	26.9
Stability Flag				
Homogeneity Flag				
Standard Deviation Used	43.6	36.2	20.7	26.9
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	17	17	17	17
HS-GCMS	12	12	12	12
GC/MSE	7	7	7	7

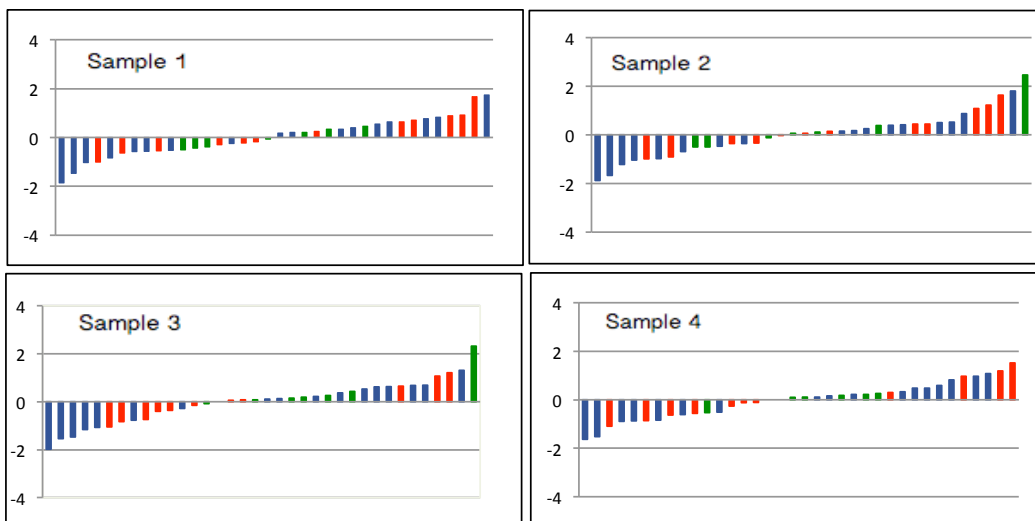
All summary stats and the plots below are based on the data excluding any flagged outliers



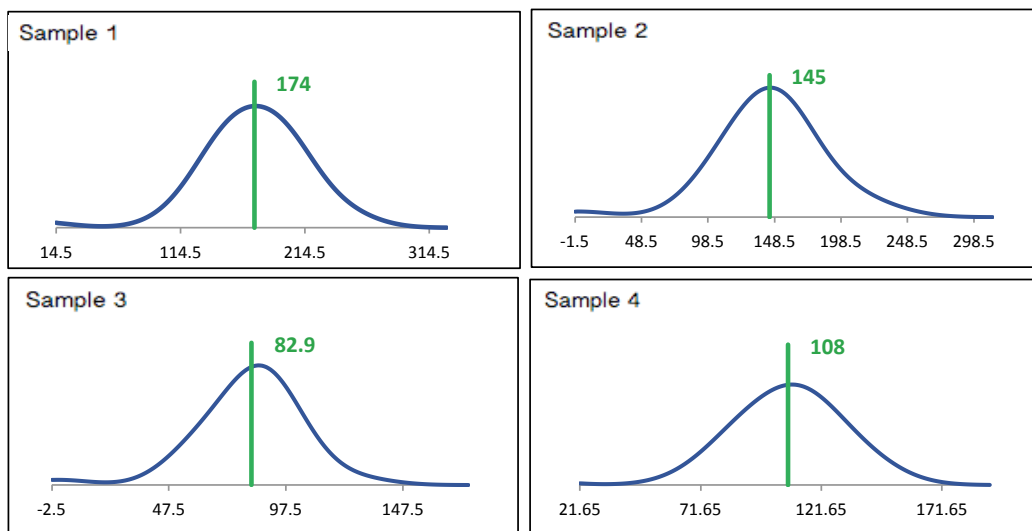
Annex A Summary by Analyte

TRICHLOROFLUOROMETHANE

z-Score Plots



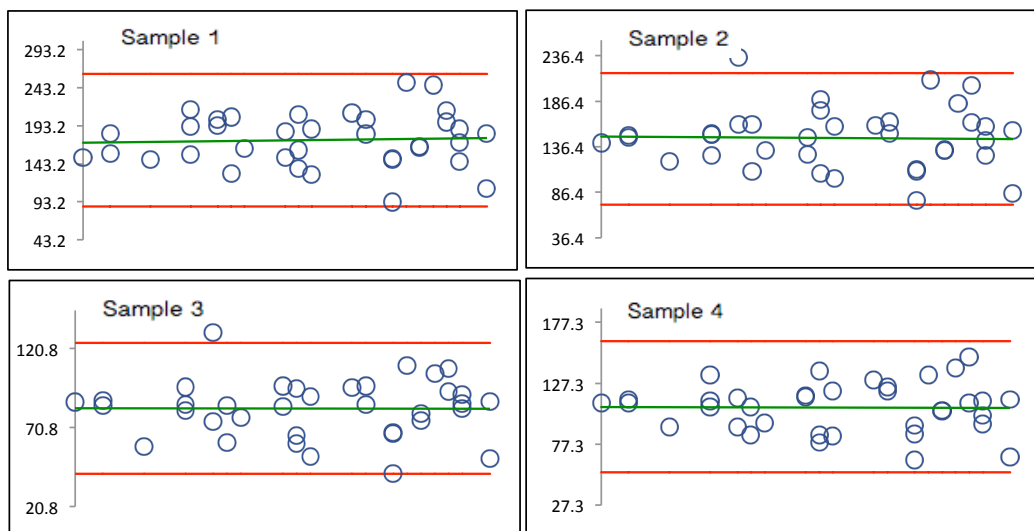
Kernel Density Plots



Annex A Summary by Analyte

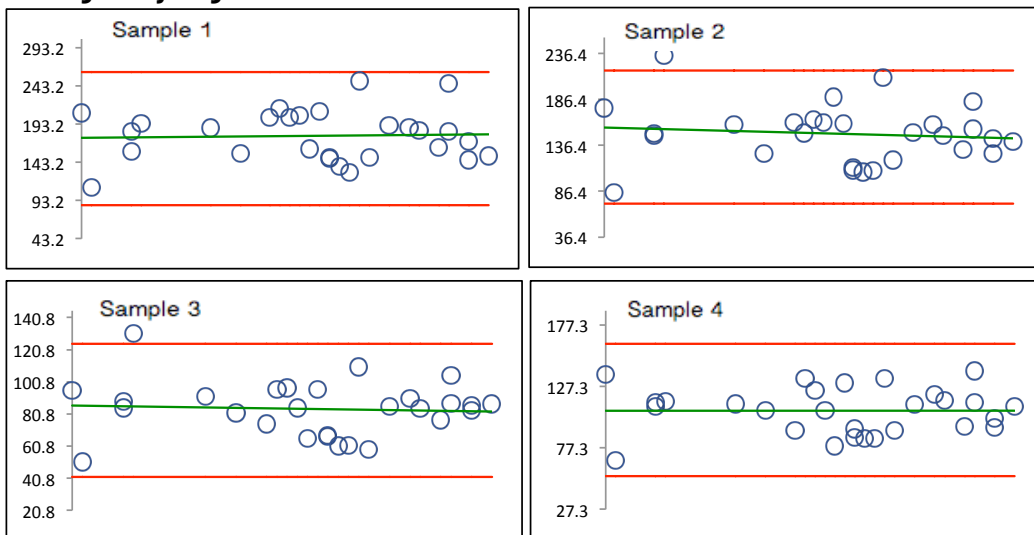
TRICHLOROFLUOROMETHANE

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).