

Test Group Summary Report

C38 Volatile Organic Compounds by TCLP

June 2025 PT Round

Issued: August 25, 2025

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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 PTC Proficiency Testing Reports contain some terms that new participants may not be familiar with:

<i>PT Code</i> :	The PT Code is unique to each analyte that a participant is registered for.
<i>Lab Info</i> :	If a participant is accredited by CALA, this three-digit number in the Laboratory Information 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 Value</i> :	The Assigned Value is the Robust Mean of the reported results, outliers excluded. This is often referred to as the “target” value.
<i>Reported Value</i> :	The result reported by the participant.
<i>SDPTA</i> :	The Standard Deviation of Proficiency Testing Assessment; this value is used to determine the acceptance limits for the PT evaluation. The calculations examine the Robust Standard Deviation (from consensus STD) and Regression Standard Deviation (STD from historical studies or TNI limits); and, if any, Homogeneity and Stability flags to determine the SDPTA (whichever is higher).
<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>PT 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.
<i>U</i> :	The Uncertainty of the assigned value.

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 *Statistical methods for use in proficiency testing by interlaboratory comparison*.

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:

$$RSZ \geq -2 \text{ and } \leq 2 \text{ no flag assigned}$$

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.

1,2-Dichlorobenzene

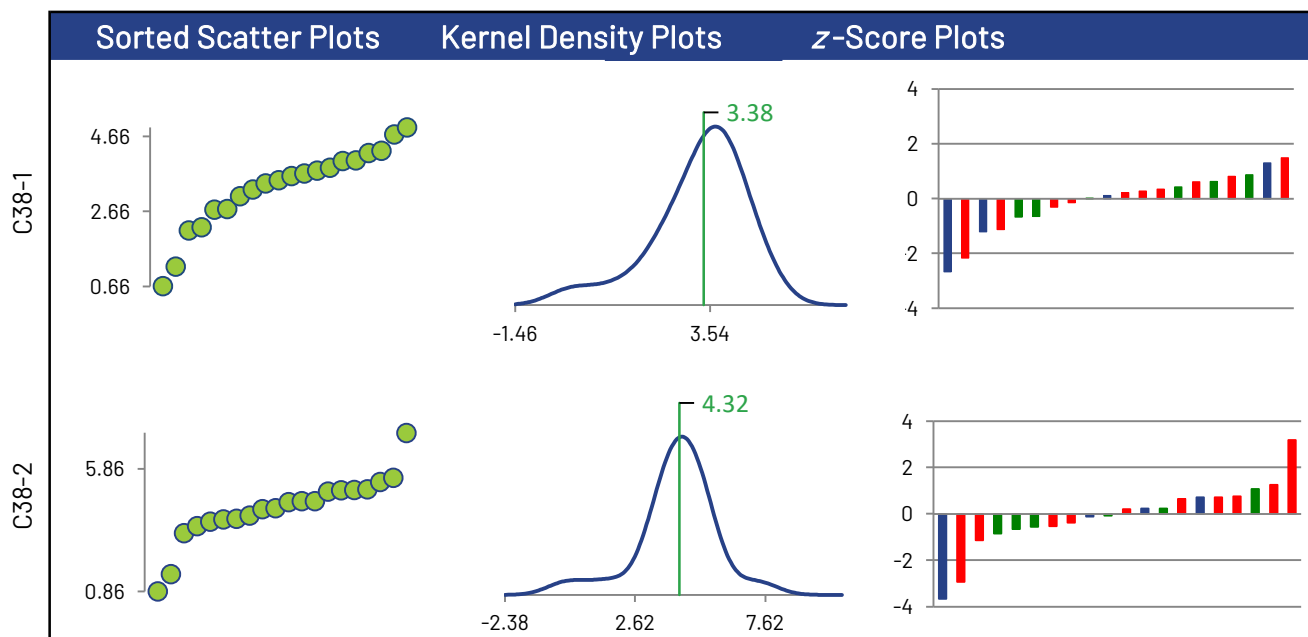
Summary Statistics

Statistic	C38-1	C38-2	C38-3	C38-4
No. of results used for summary statistics	20	20	0	0
Median mg/L	3.55	4.38		
Robust Mean mg/L	3.38	4.32		
Uncertainty of the Assigned Value mg/L	0.285	0.264		
Robust Standard Deviation mg/L	1.02	0.945		
Regression Standard Deviation mg/L				
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) mg/L	1.02	0.945		
Flagged Outliers	0	0	0	0
$ z > 3.0$	0	2	0	0
$2 < z < 3$	2	1	0	0
Failure Rate %*	10.0			

Methods Used

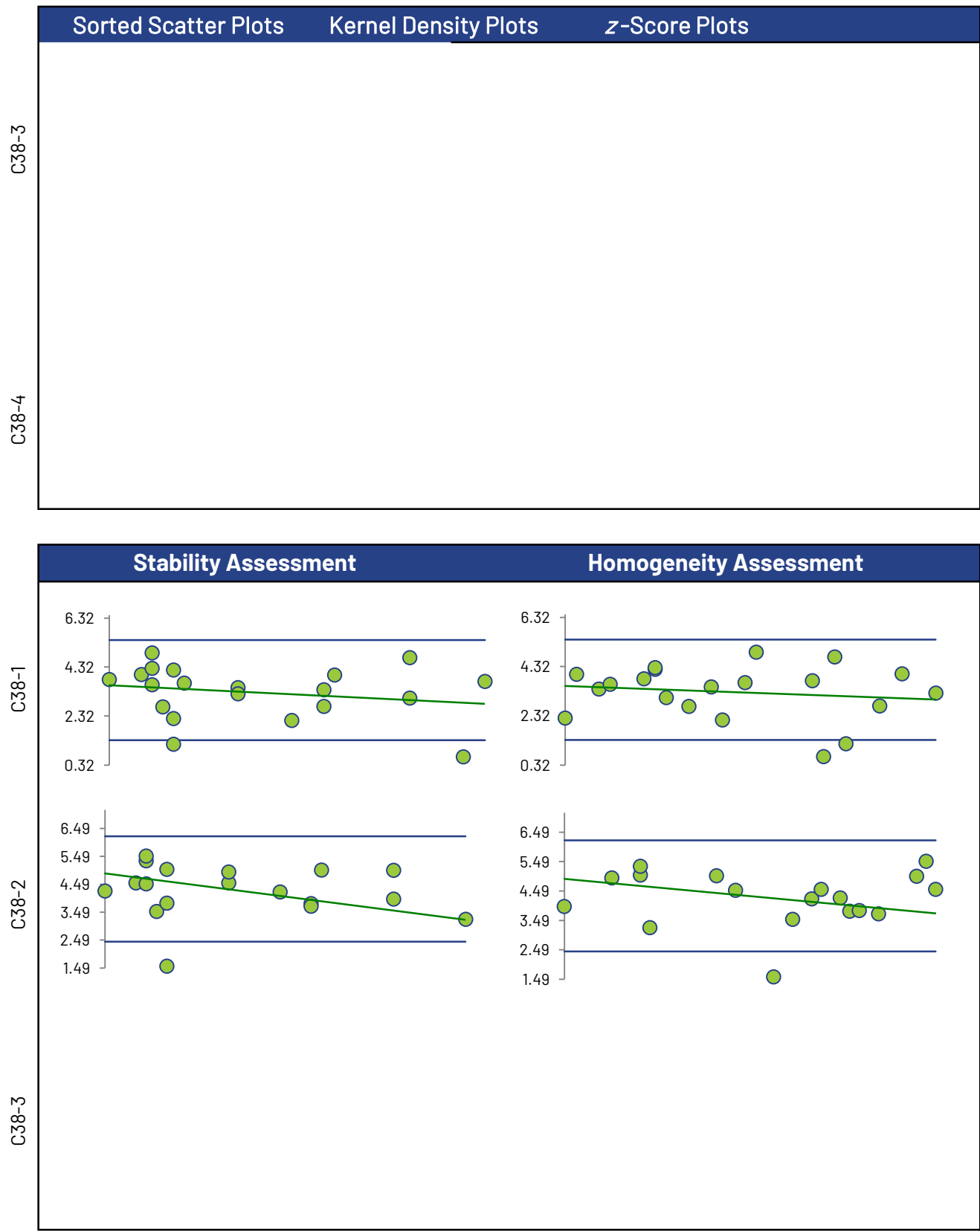
Method	C38-1	C38-2	C38-3	C38-4
GC/MS (Blue)	4	4	0	0
GC/MS - PURGE AND TRAP (Red)	10	10	0	0
GC/MS - HEADSPACE (Green)	6	6	0	0

All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers

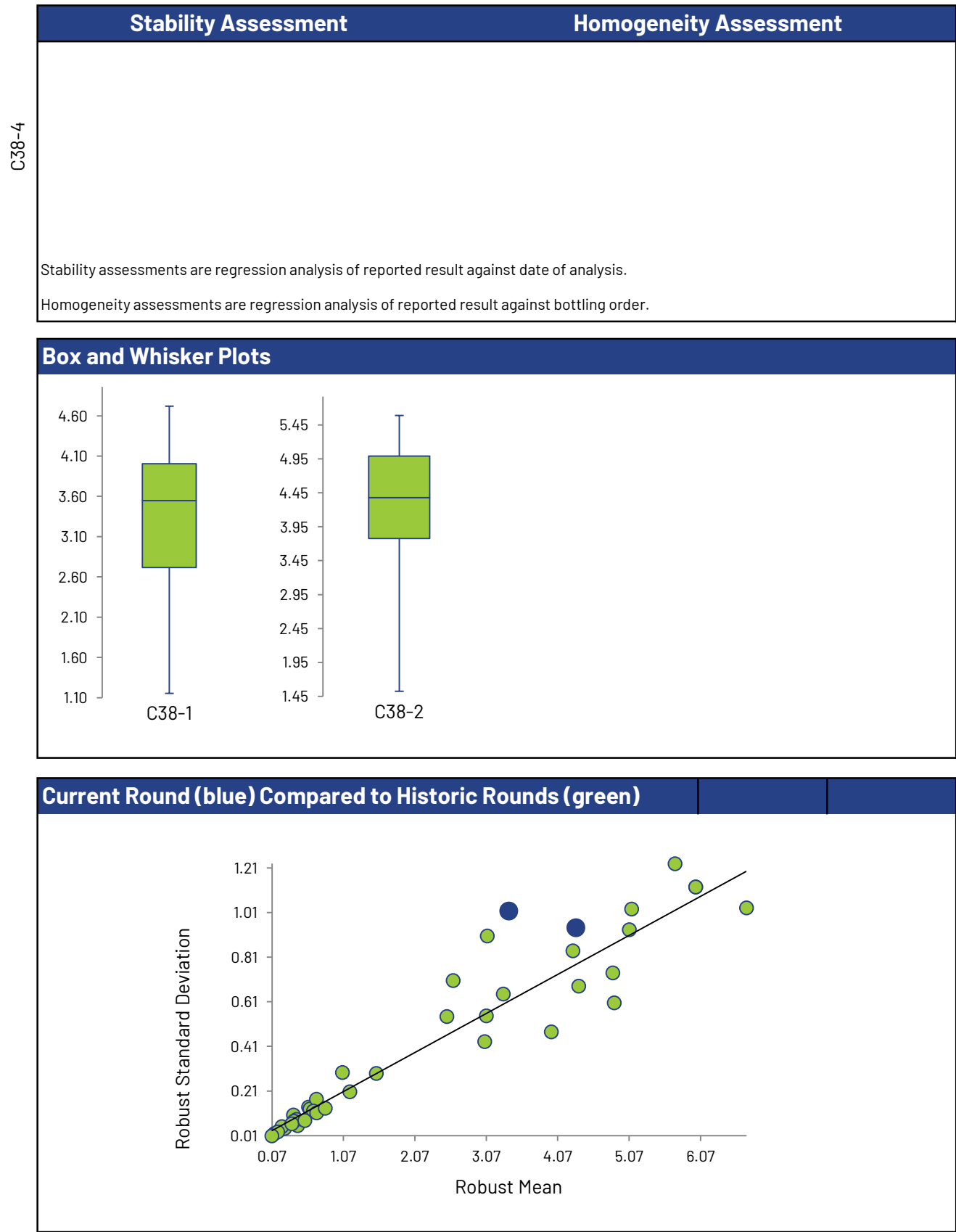


* Displayed failure rate does not account for the RDL modified z-Scores or inaccurately reported non-detects.

1,2-Dichlorobenzene



1,2-Dichlorobenzene



1,2-Dichloroethane

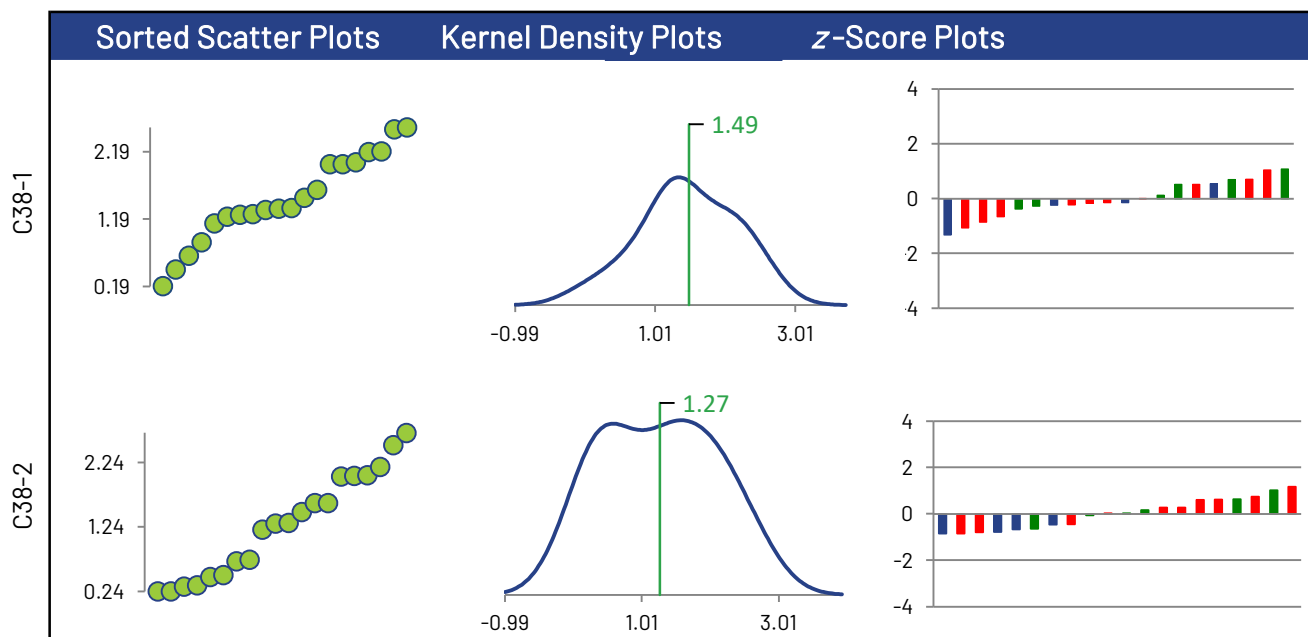
Summary Statistics

Statistic	C38-1	C38-2	C38-3	C38-4
No. of results used for summary statistics	20	20	0	0
Median mg/L	1.35	1.30		
Robust Mean mg/L	1.49	1.27		
Uncertainty of the Assigned Value mg/L	0.203	0.252		
Robust Standard Deviation mg/L	0.727	0.900		
Regression Standard Deviation mg/L				
Stability Flag	Stability			
Homogeneity Flag		Homogeneity		
Standard Deviation Used (SDPA) mg/L	0.984	1.22		
Flagged Outliers	0	0	0	0
$ z > 3.0$	0	0	0	0
$2 < z < 3$	0	0	0	0
Failure Rate %*	0.0			

Methods Used

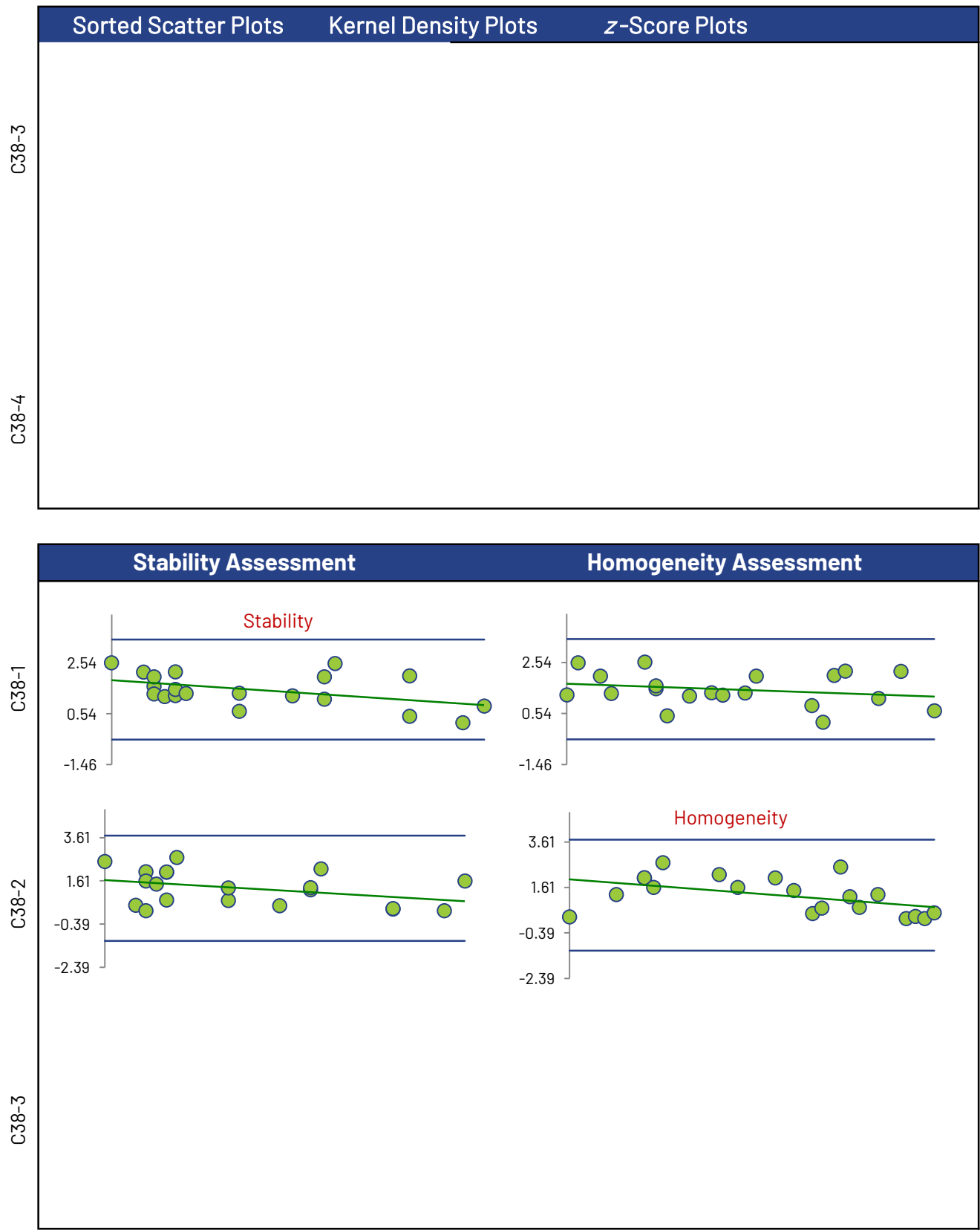
Method	C38-1	C38-2	C38-3	C38-4
GC/MS (Blue)	4	4	0	0
GC/MS - PURGE AND TRAP (Red)	10	10	0	0
GC/MS - HEADSPACE (Green)	6	6	0	0

All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers



* Displayed failure rate does not account for the RDL modified z-Scores or inaccurately reported non-detects.

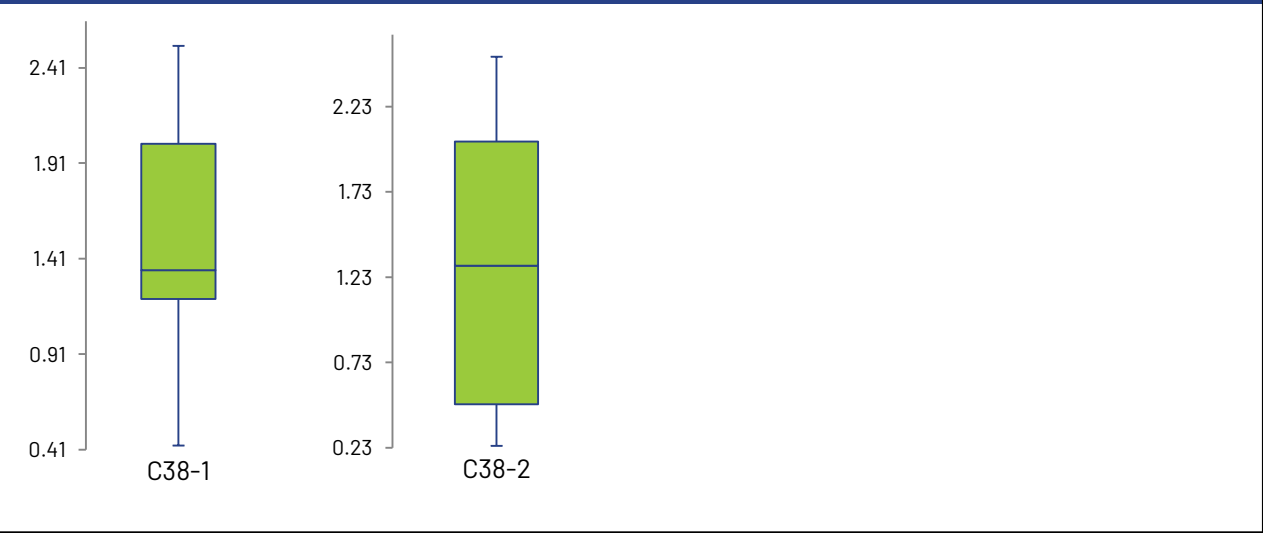
1,2-Dichloroethane



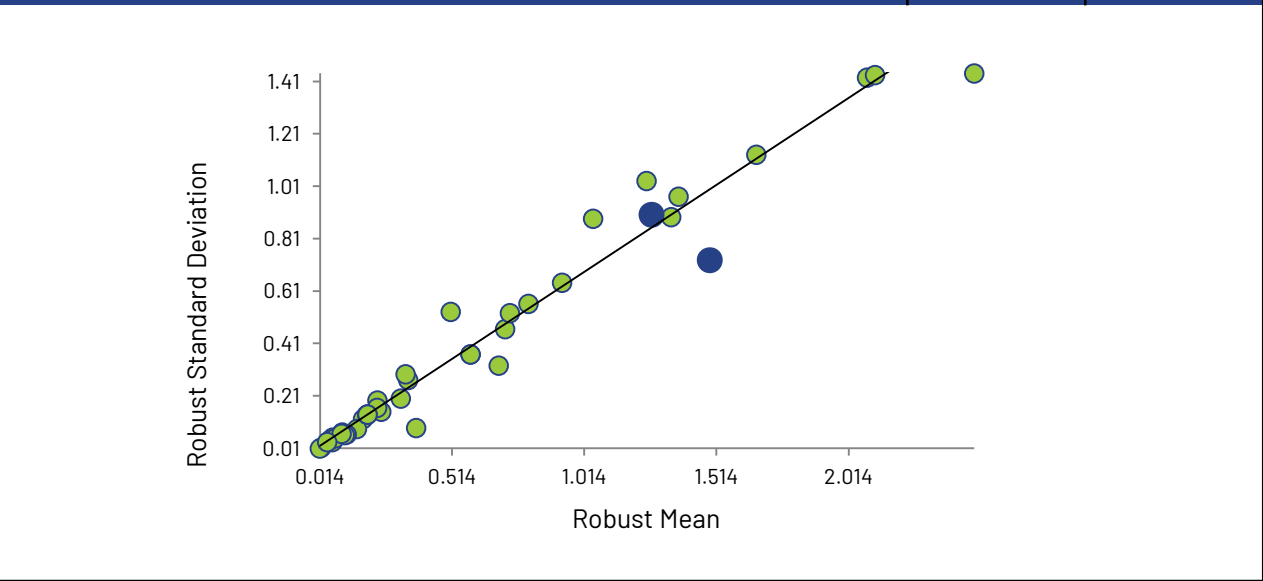
1,2-Dichloroethane

C38-4	Stability Assessment	Homogeneity Assessment
	<p>Stability assessments are regression analysis of reported result against date of analysis.</p> <p>Homogeneity assessments are regression analysis of reported result against bottling order.</p>	

Box and Whisker Plots



Current Round (blue) Compared to Historic Rounds (green)



1,4-Dichlorobenzene

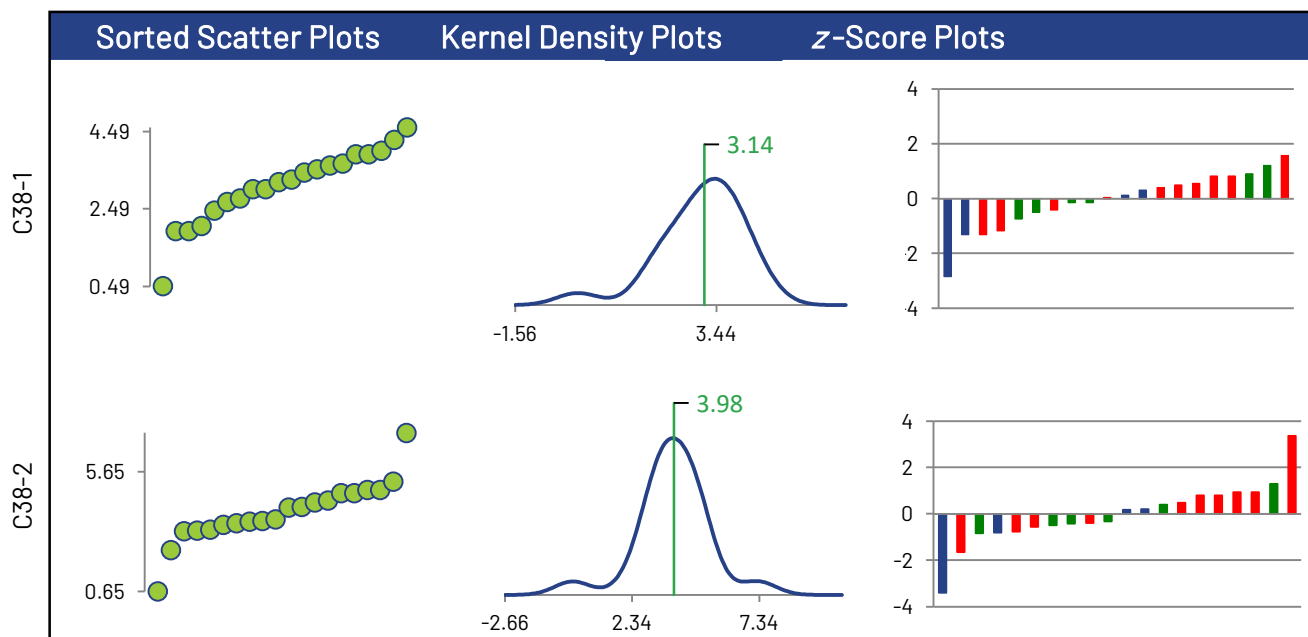
Summary Statistics

Statistic	C38-1	C38-2	C38-3	C38-4
No. of results used for summary statistics	20	20	0	0
Median mg/L	3.22	3.92		
Robust Mean mg/L	3.14	3.98		
Uncertainty of the Assigned Value mg/L	0.261	0.273		
Robust Standard Deviation mg/L	0.932	0.978		
Regression Standard Deviation mg/L				
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) mg/L	0.932	0.978		
Flagged Outliers	0	0	0	0
$ z > 3.0$	0	2	0	0
$2 < z < 3$	1	0	0	0
Failure Rate %*	5.0			

Methods Used

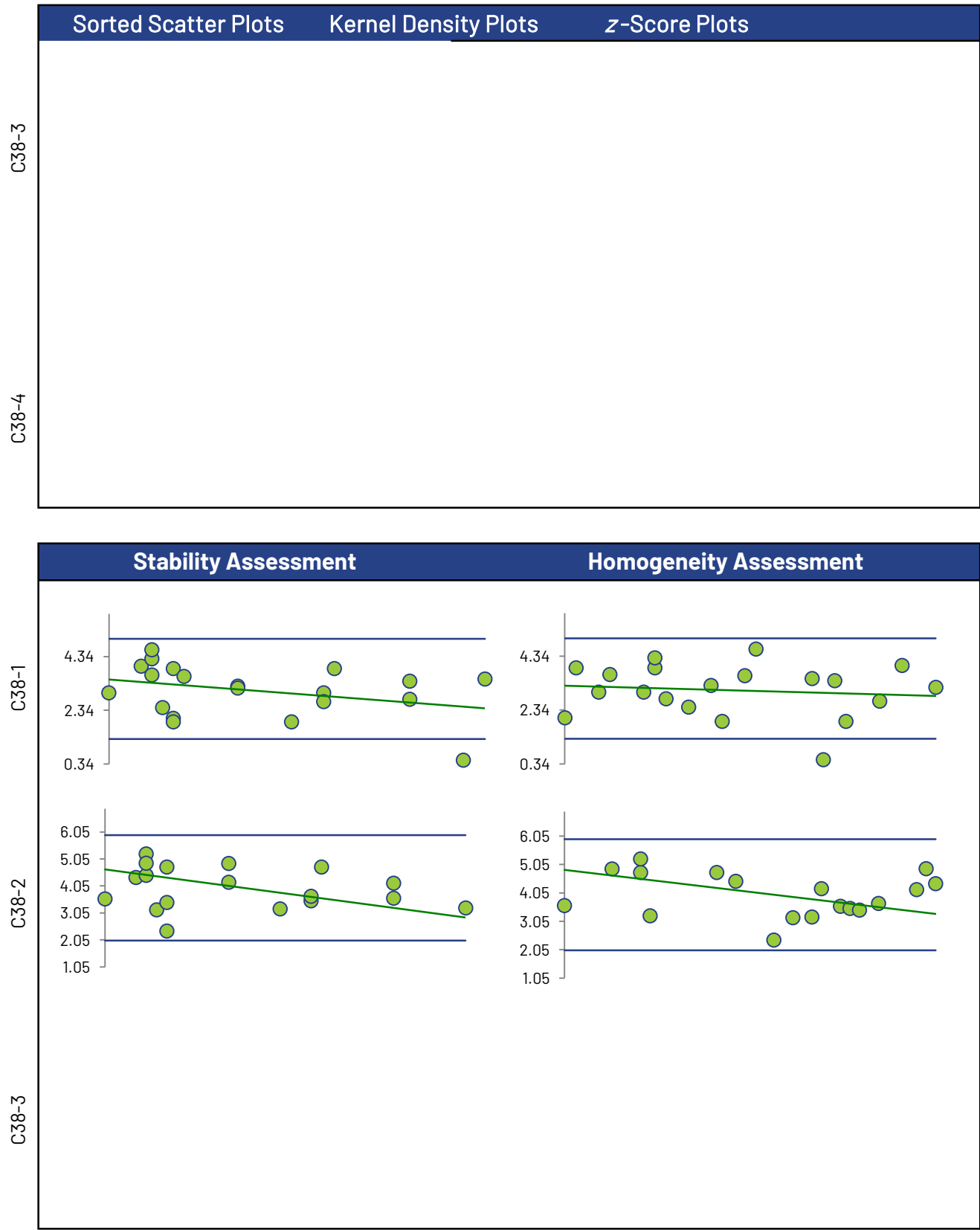
Method	C38-1	C38-2	C38-3	C38-4
GC/MS (Blue)	4	4	0	0
GC/MS - PURGE AND TRAP (Red)	10	10	0	0
GC/MS - HEADSPACE (Green)	6	6	0	0

All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers



* Displayed failure rate does not account for the RDL modified z-Scores or inaccurately reported non-detects.

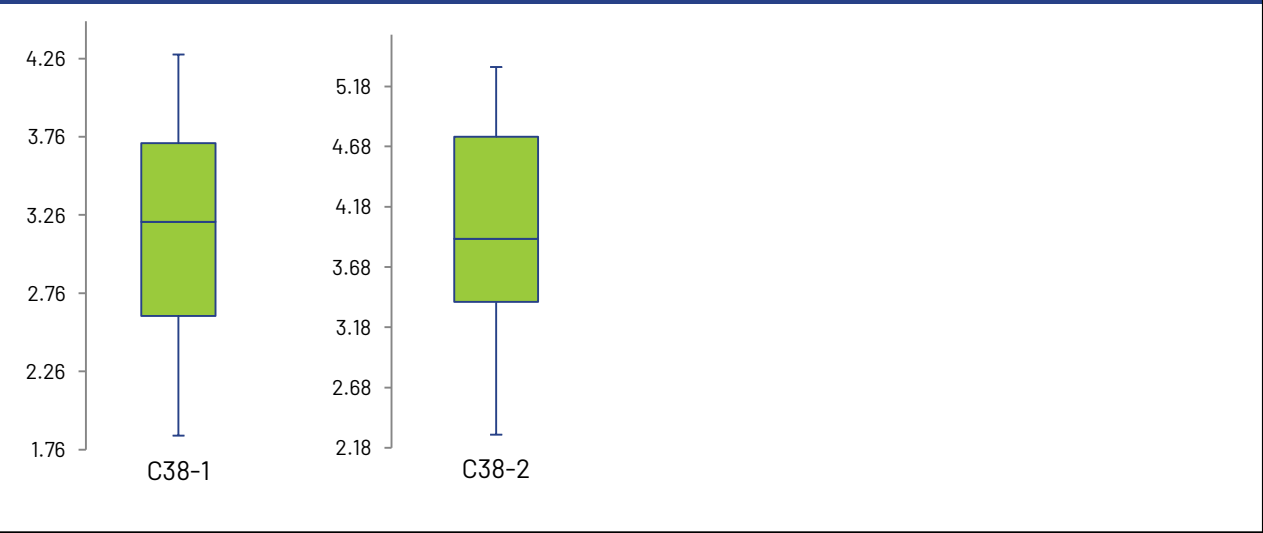
1,4-Dichlorobenzene



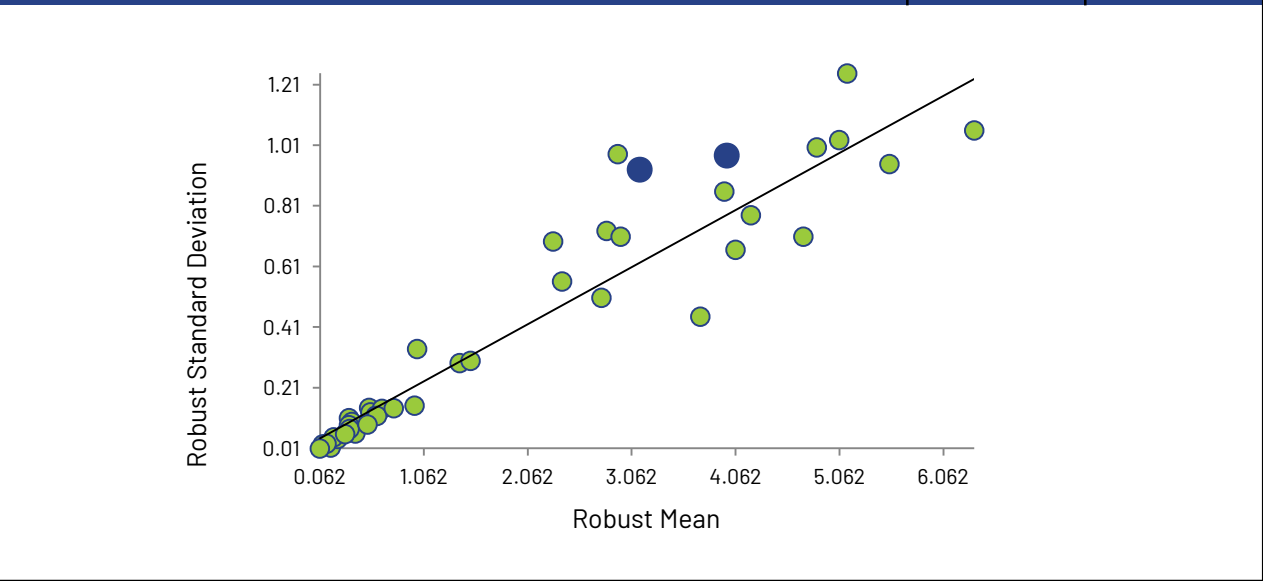
1,4-Dichlorobenzene

C38-4	Stability Assessment	Homogeneity Assessment
	<p>Stability assessments are regression analysis of reported result against date of analysis.</p> <p>Homogeneity assessments are regression analysis of reported result against bottling order.</p>	

Box and Whisker Plots



Current Round (blue) Compared to Historic Rounds (green)



Benzene

Summary Statistics

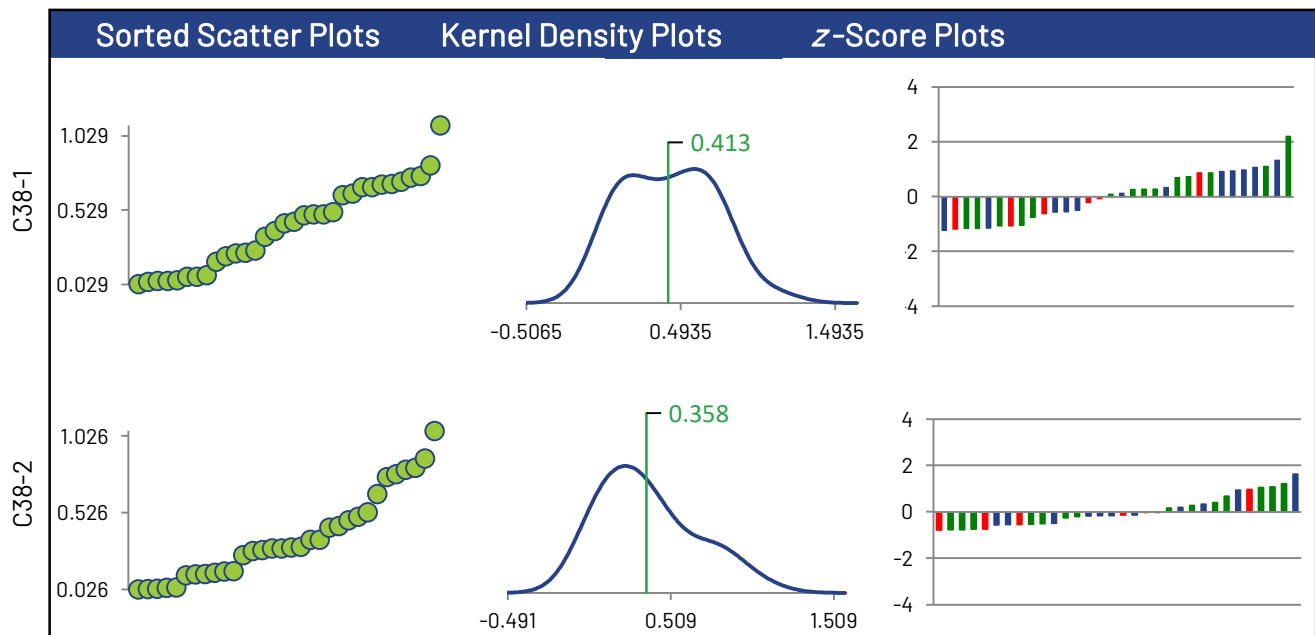
Excluded

Statistic	C38-1	C38-2	C38-3	C38-4
No. of results used for summary statistics	32	32	0	0
Median mg/L	0.445	0.297		
Robust Mean mg/L	0.413	0.358		
Uncertainty of the Assigned Value mg/L	0.0689	0.0665		
Robust Standard Deviation mg/L	0.312	0.301		
Regression Standard Deviation mg/L				
Stability Flag				
Homogeneity Flag		Homogeneity		
Standard Deviation Used (SDPA) mg/L	0.312	0.432		
Flagged Outliers	0	0	0	0
$ z > 3.0$	0	0	0	0
$2 < z < 3$	1	0	0	0
Failure Rate %*	0.0			

Methods Used

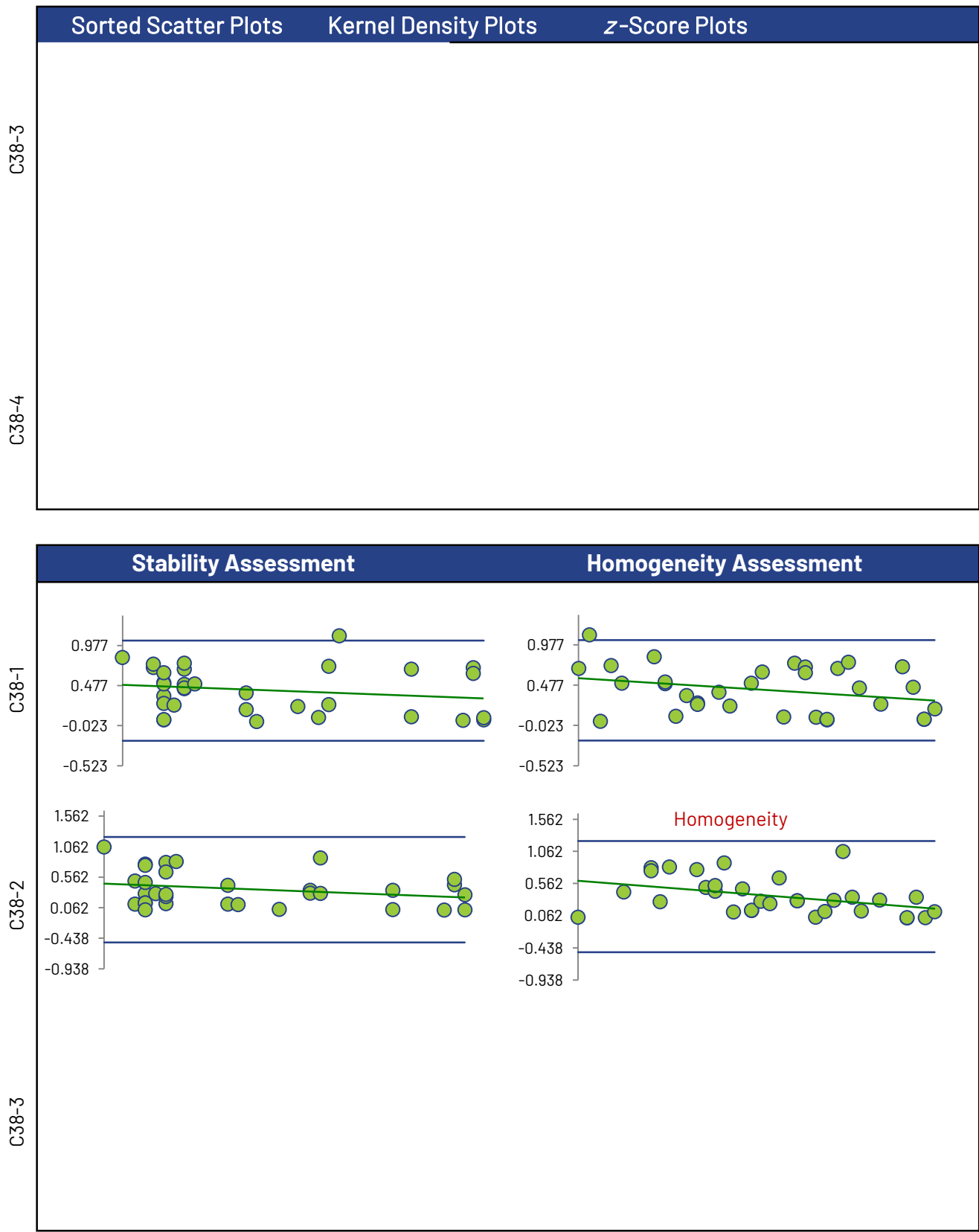
Method	C38-1	C38-2	C38-3	C38-4
GC/MS - HEADSPACE (Blue)	12	12	0	0
GC/MS (Red)	6	6	0	0
GC/MS - PURGE AND TRAP (Green)	14	14	0	0

All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers

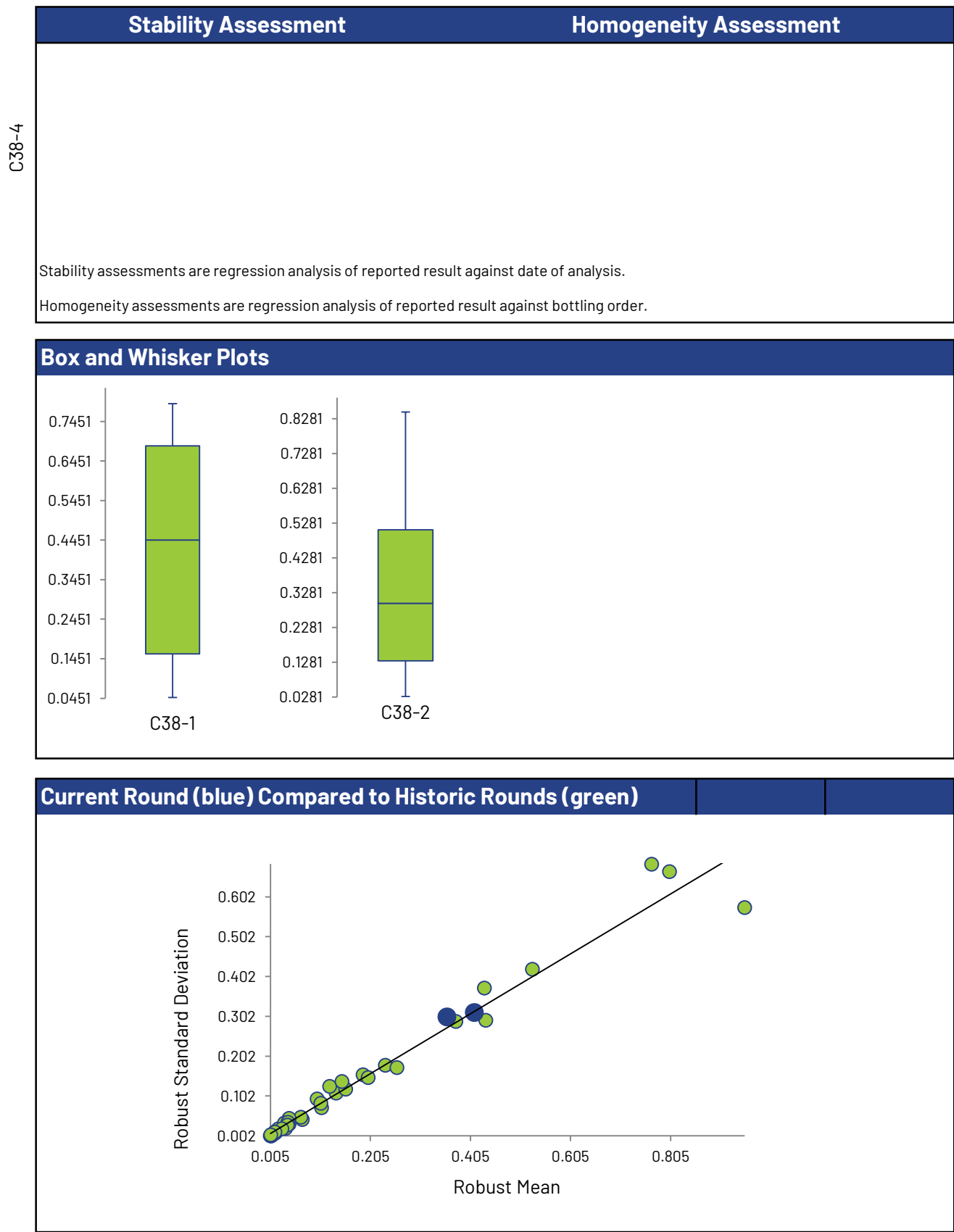


* Displayed failure rate does not account for the RDL modified z-Scores or inaccurately reported non-detects.

Benzene



Benzene



Chlorobenzene

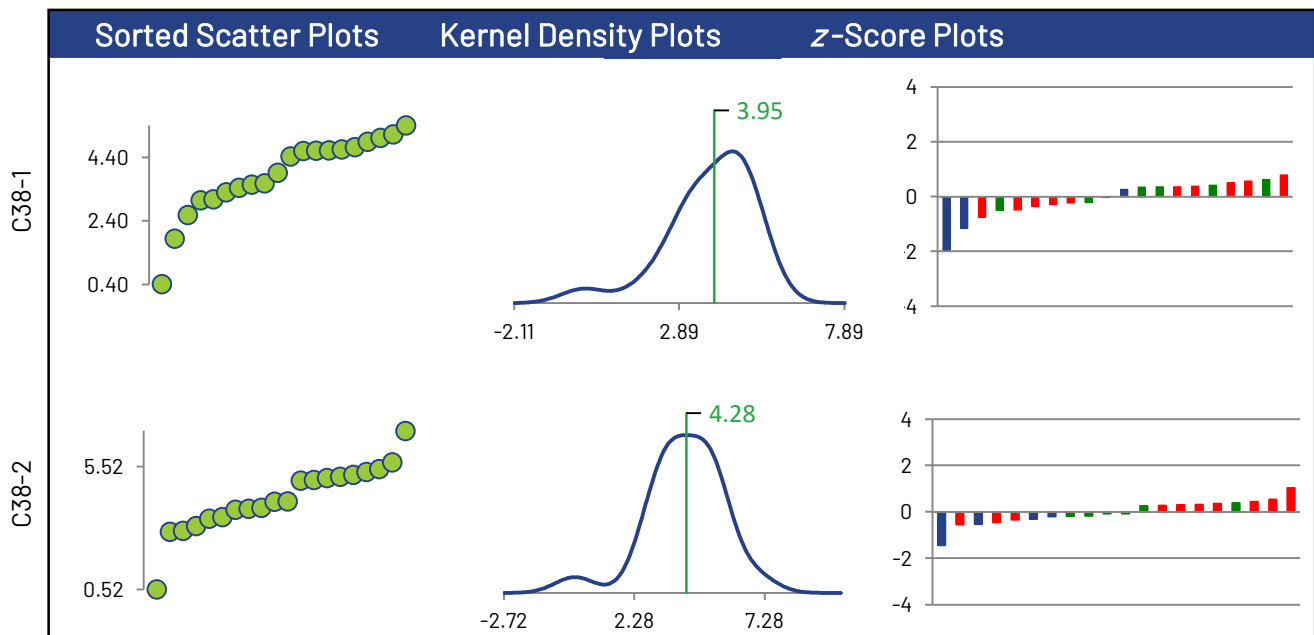
Summary Statistics

Statistic	C38-1	C38-2	C38-3	C38-4
No. of results used for summary statistics	20	20	0	0
Median mg/L	4.16	4.10		
Robust Mean mg/L	3.95	4.28		
Uncertainty of the Assigned Value mg/L	0.307	0.335		
Robust Standard Deviation mg/L	1.10	1.20		
Regression Standard Deviation mg/L				
Stability Flag	Stability			
Homogeneity Flag		Homogeneity		
Standard Deviation Used (SDPA) mg/L	1.83	2.61		
Flagged Outliers	0	0	0	0
$ z > 3.0$	0	0	0	0
$2 < z < 3$	0	0	0	0
Failure Rate %*	0.0			

Methods Used

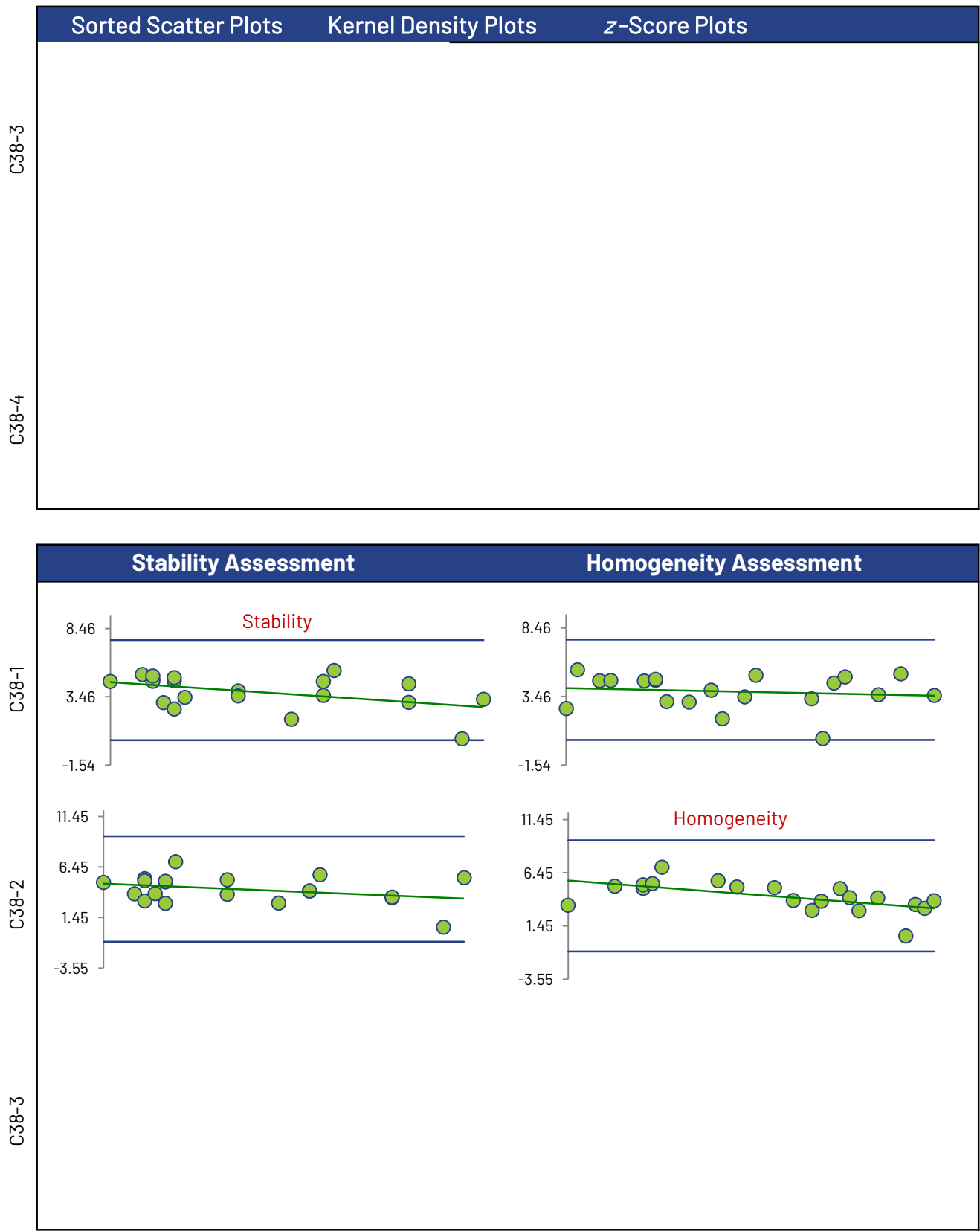
Method	C38-1	C38-2	C38-3	C38-4
GC/MS (Blue)	4	4	0	0
GC/MS - PURGE AND TRAP (Red)	10	10	0	0
GC/MS - HEADSPACE (Green)	6	6	0	0

All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers



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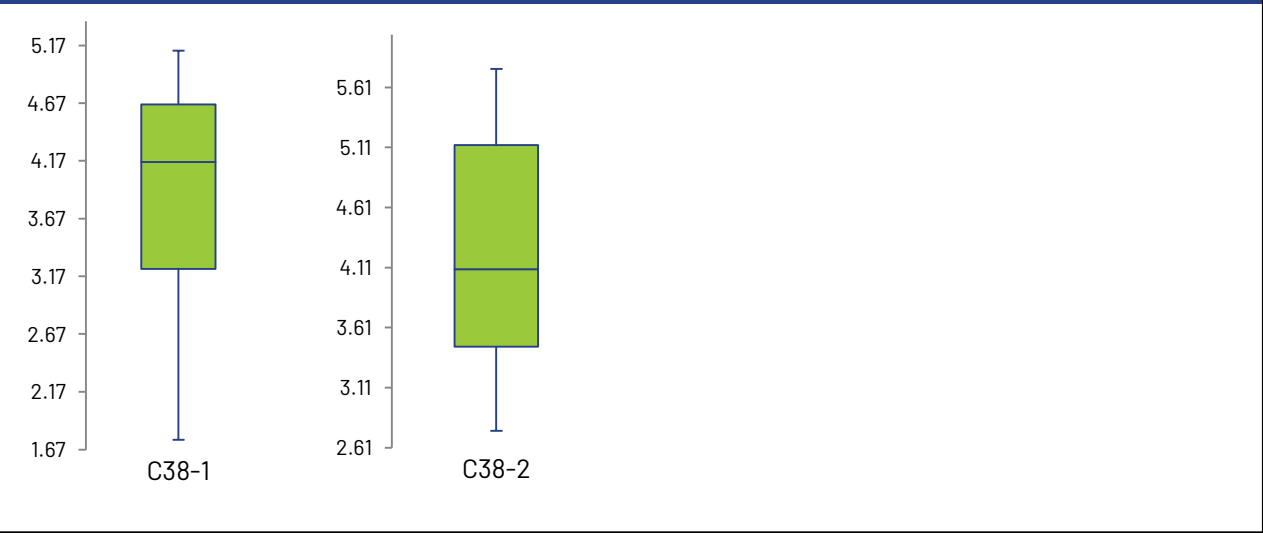
Chlorobenzene



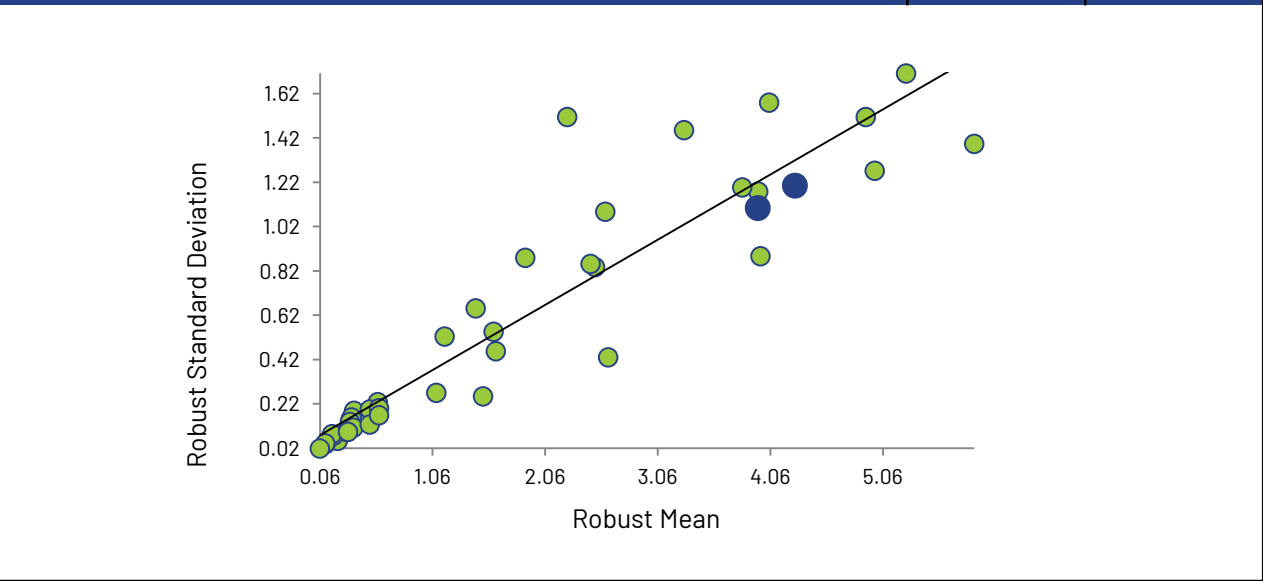
Chlorobenzene

C38-4	Stability Assessment	Homogeneity Assessment
	<p>Stability assessments are regression analysis of reported result against date of analysis.</p> <p>Homogeneity assessments are regression analysis of reported result against bottling order.</p>	

Box and Whisker Plots



Current Round (blue) Compared to Historic Rounds (green)



Chlorobenzene

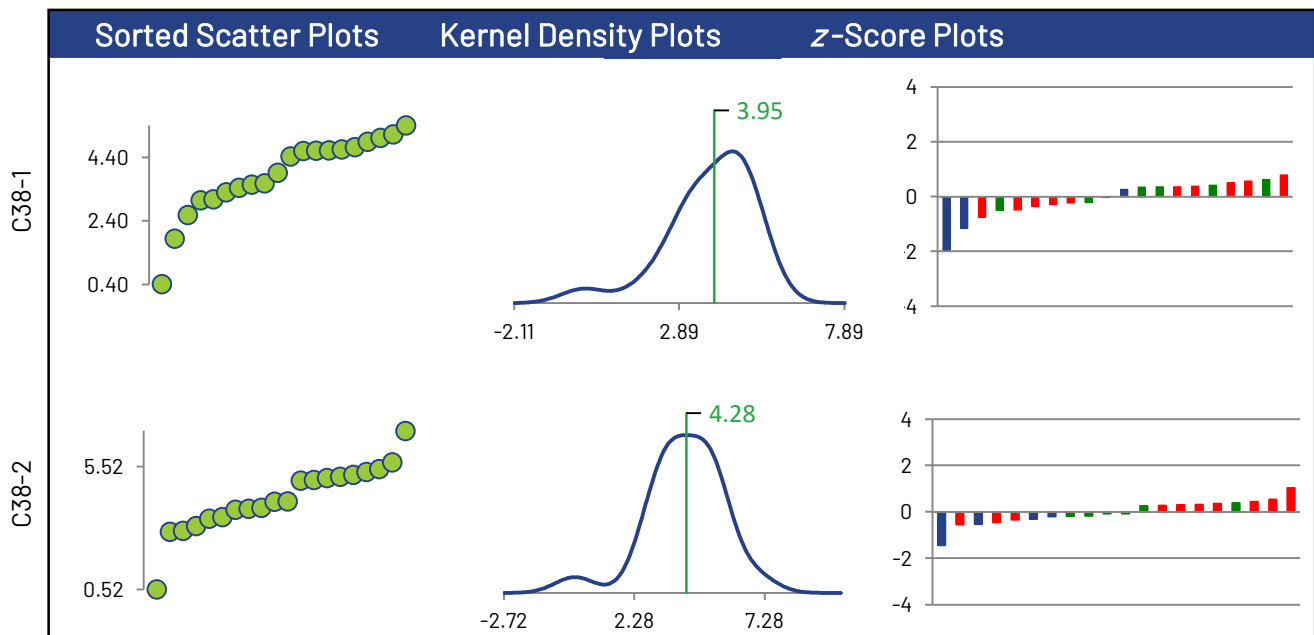
Summary Statistics

Statistic	C38-1	C38-2	C38-3	C38-4
No. of results used for summary statistics	20	20	0	0
Median mg/L	4.16	4.10		
Robust Mean mg/L	3.95	4.28		
Uncertainty of the Assigned Value mg/L	0.307	0.335		
Robust Standard Deviation mg/L	1.10	1.20		
Regression Standard Deviation mg/L				
Stability Flag	Stability			
Homogeneity Flag		Homogeneity		
Standard Deviation Used (SDPA) mg/L	1.83	2.61		
Flagged Outliers	0	0	0	0
$ z > 3.0$	0	0	0	0
$2 < z < 3$	0	0	0	0
Failure Rate %*	0.0			

Methods Used

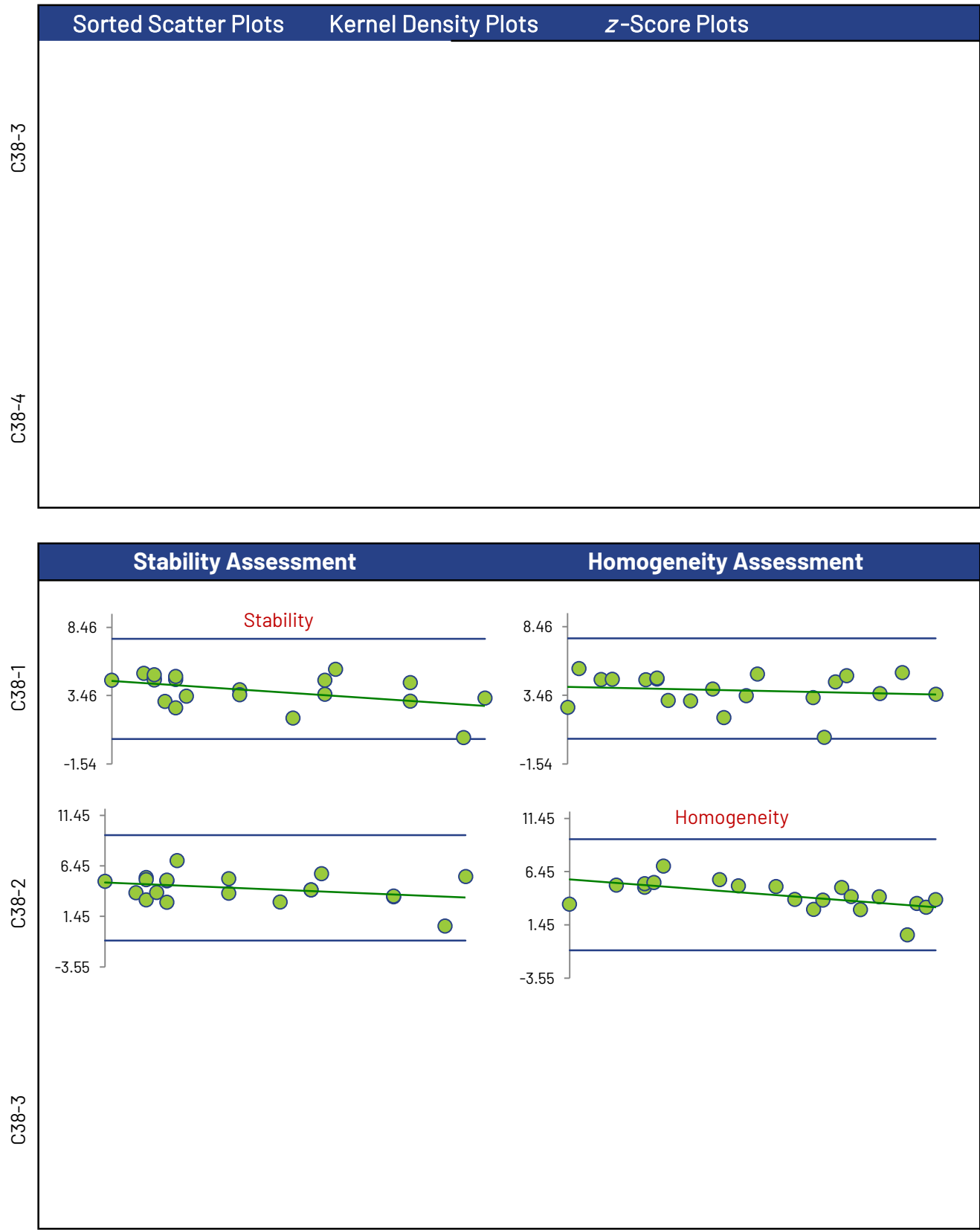
Method	C38-1	C38-2	C38-3	C38-4
GC/MS (Blue)	4	4	0	0
GC/MS - PURGE AND TRAP (Red)	10	10	0	0
GC/MS - HEADSPACE (Green)	6	6	0	0

All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers



* Displayed failure rate does not account for the RDL modified z-Scores or inaccurately reported non-detects.

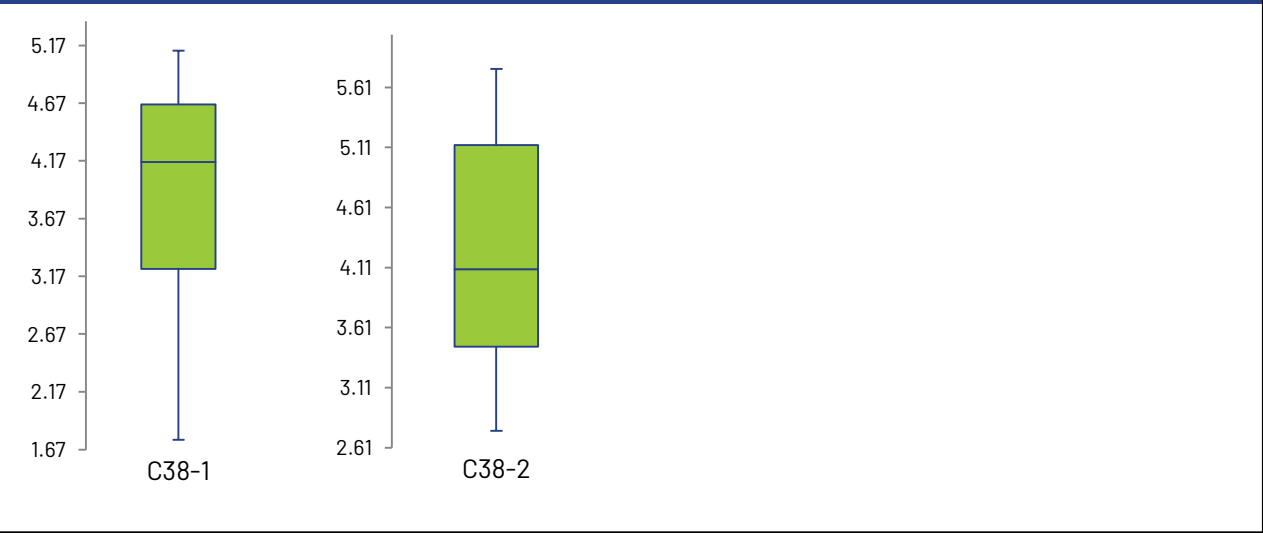
Chlorobenzene



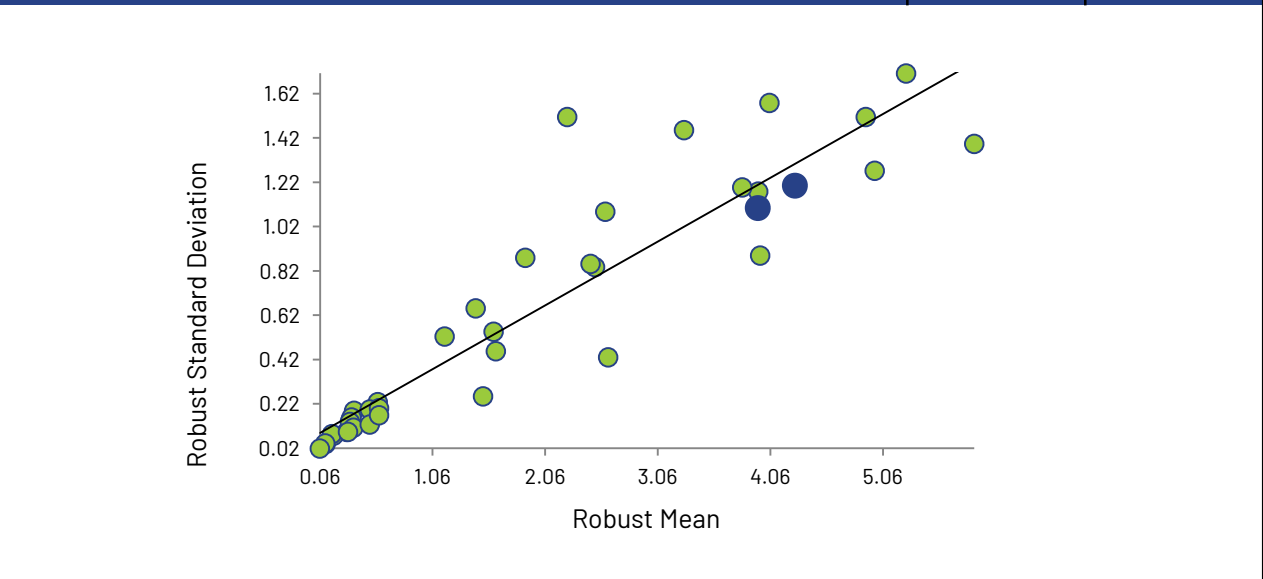
Chlorobenzene

C38-4	Stability Assessment	Homogeneity Assessment
	<p>Stability assessments are regression analysis of reported result against date of analysis.</p> <p>Homogeneity assessments are regression analysis of reported result against bottling order.</p>	

Box and Whisker Plots



Current Round (blue) Compared to Historic Rounds (green)



Chloroform

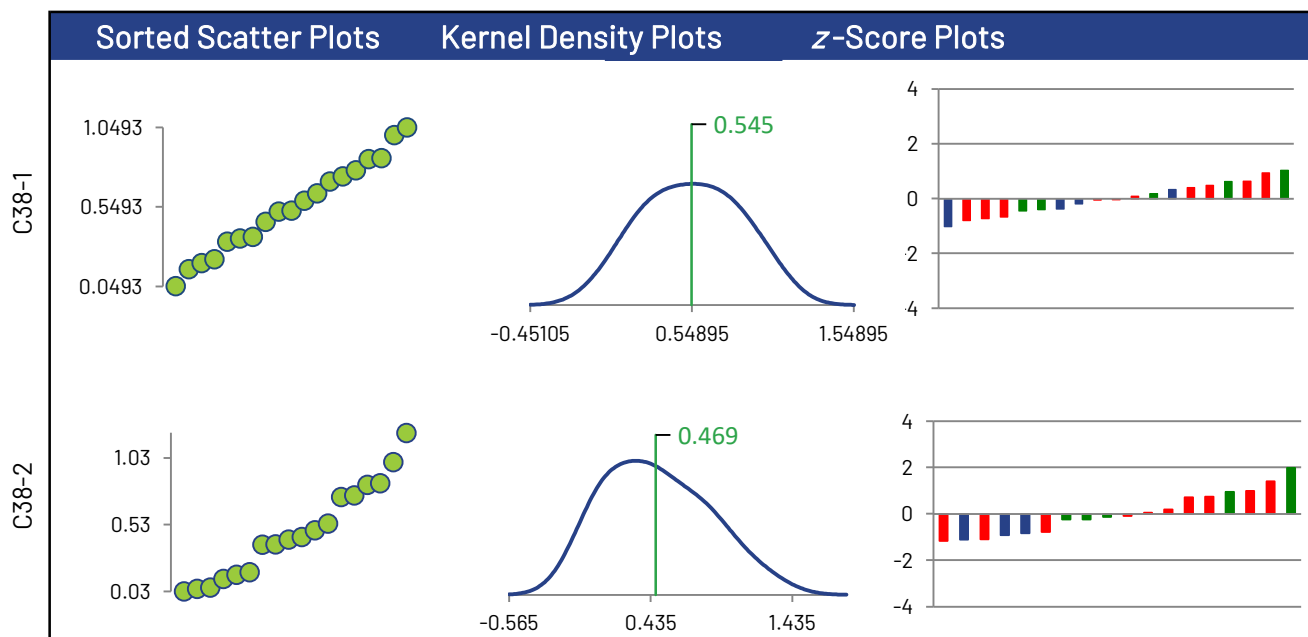
Summary Statistics

Statistic	C38-1	C38-2	C38-3	C38-4
No. of results used for summary statistics	19	18	0	0
Median mg/L	0.526	0.429		
Robust Mean mg/L	0.545	0.469		
Uncertainty of the Assigned Value mg/L	0.0946	0.111		
Robust Standard Deviation mg/L	0.330	0.378		
Regression Standard Deviation mg/L				
Stability Flag				
Homogeneity Flag	Homogeneity			
Standard Deviation Used (SDPA) mg/L	0.484	0.378		
Flagged Outliers	0	0	0	0
$ z > 3.0$	0	0	0	0
$2 < z < 3$	0	0	0	0
Failure Rate %*	0.0			

Methods Used

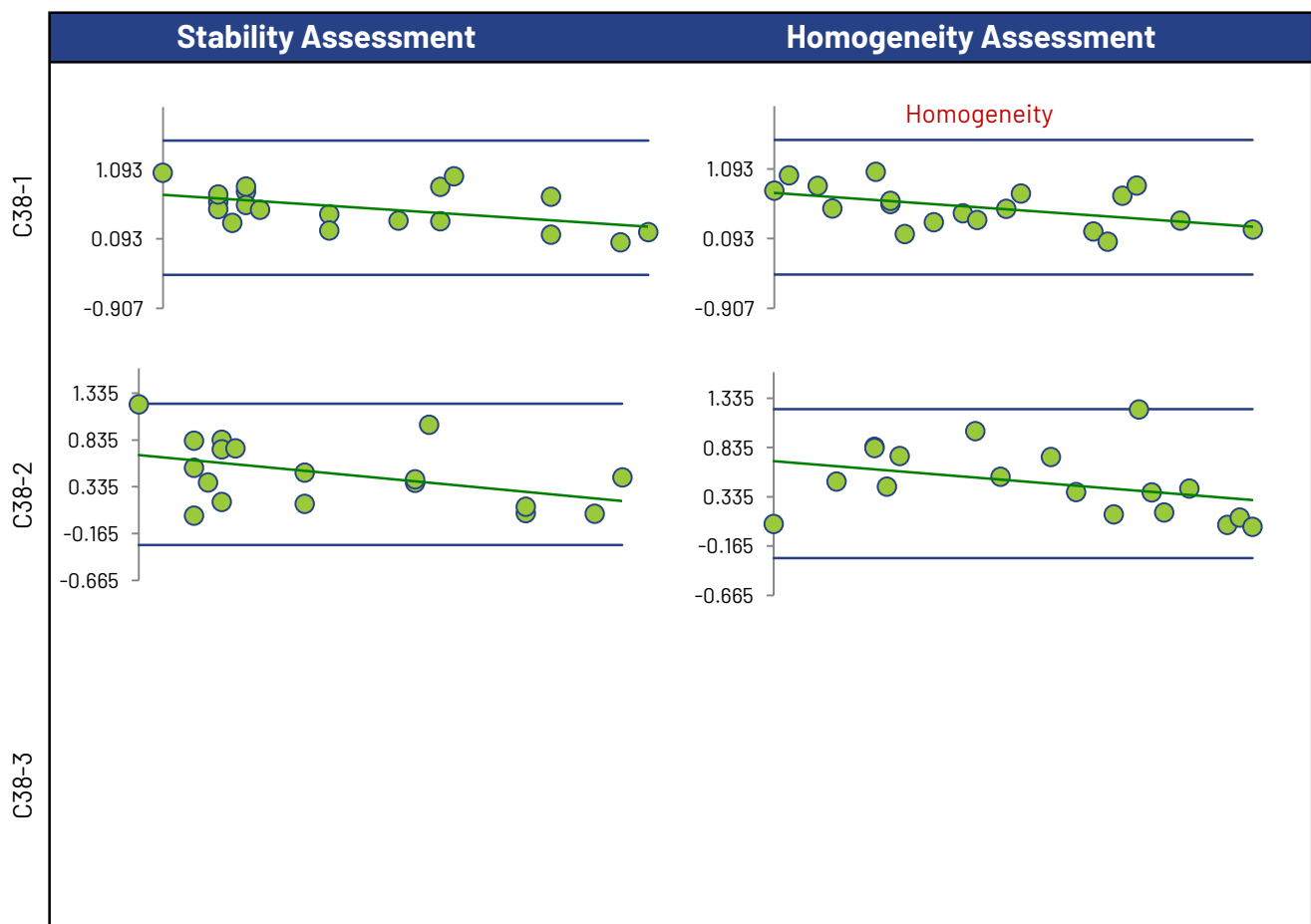
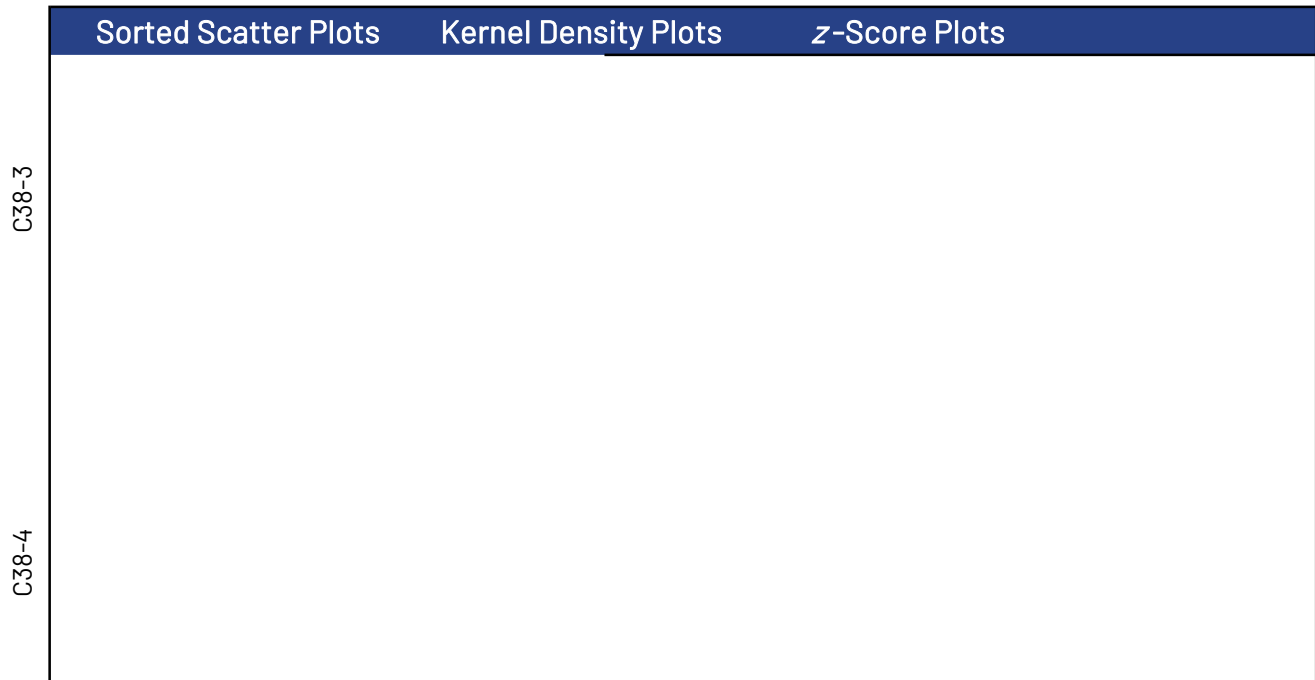
Method	C38-1	C38-2	C38-3	C38-4
GC/MS (Blue)	4	3	0	0
GC/MS - PURGE AND TRAP (Red)	10	10	0	0
GC/MS - HEADSPACE (Green)	5	5	0	0

All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers



* Displayed failure rate does not account for the RDL modified z-Scores or inaccurately reported non-detects.

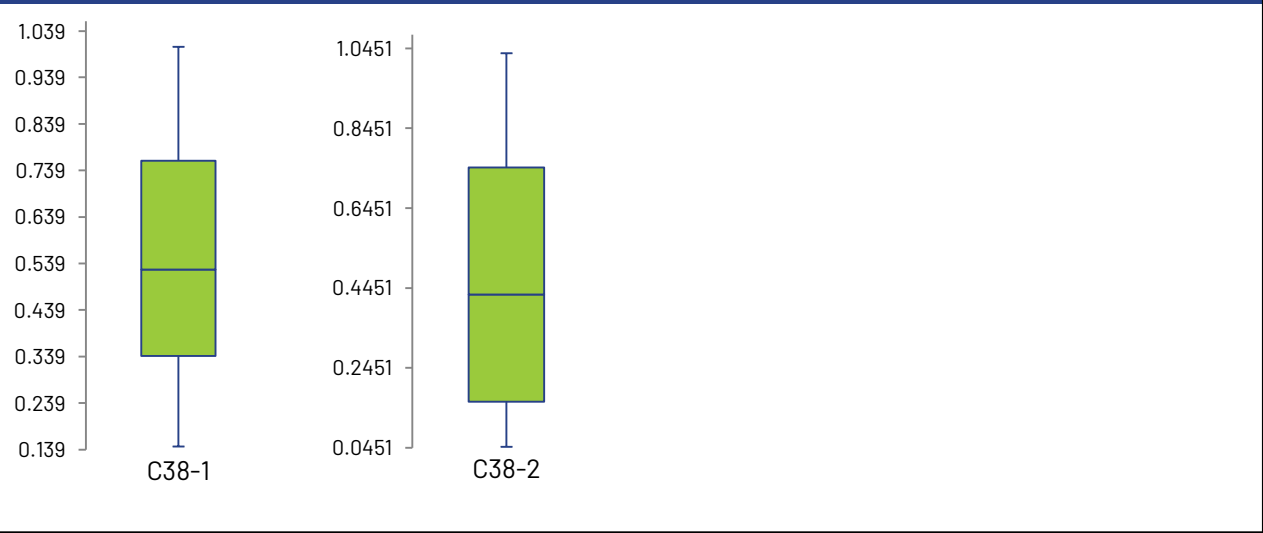
Chloroform



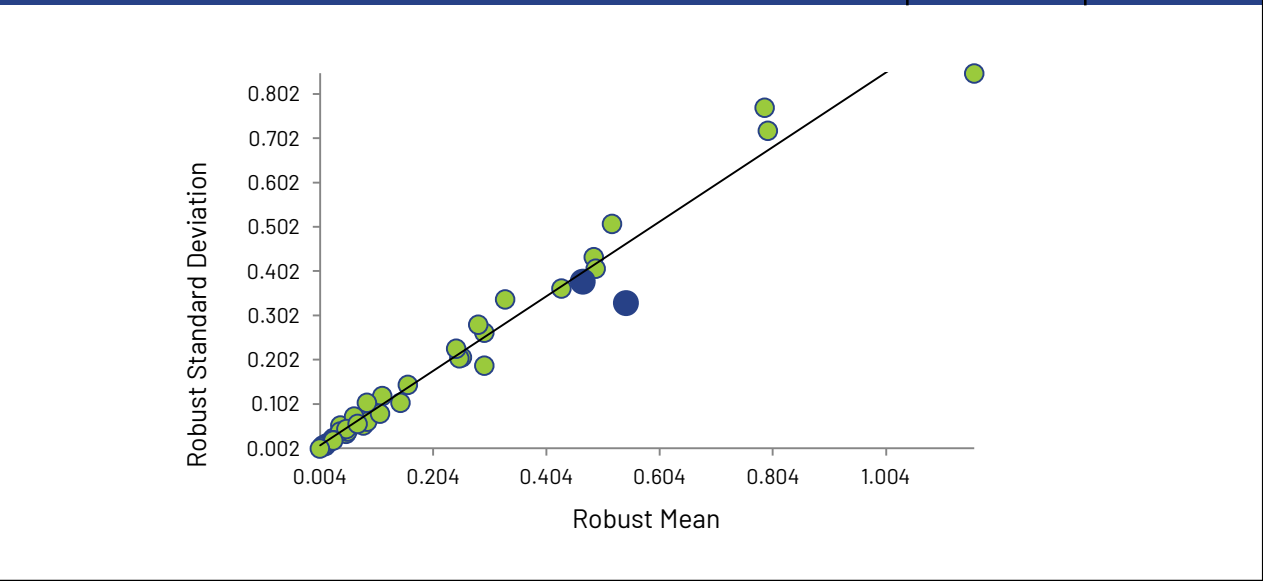
Chloroform

C38-4	Stability Assessment	Homogeneity Assessment
	<p>Stability assessments are regression analysis of reported result against date of analysis.</p> <p>Homogeneity assessments are regression analysis of reported result against bottling order.</p>	

Box and Whisker Plots



Current Round (blue) Compared to Historic Rounds (green)



Dichloromethane

Summary Statistics

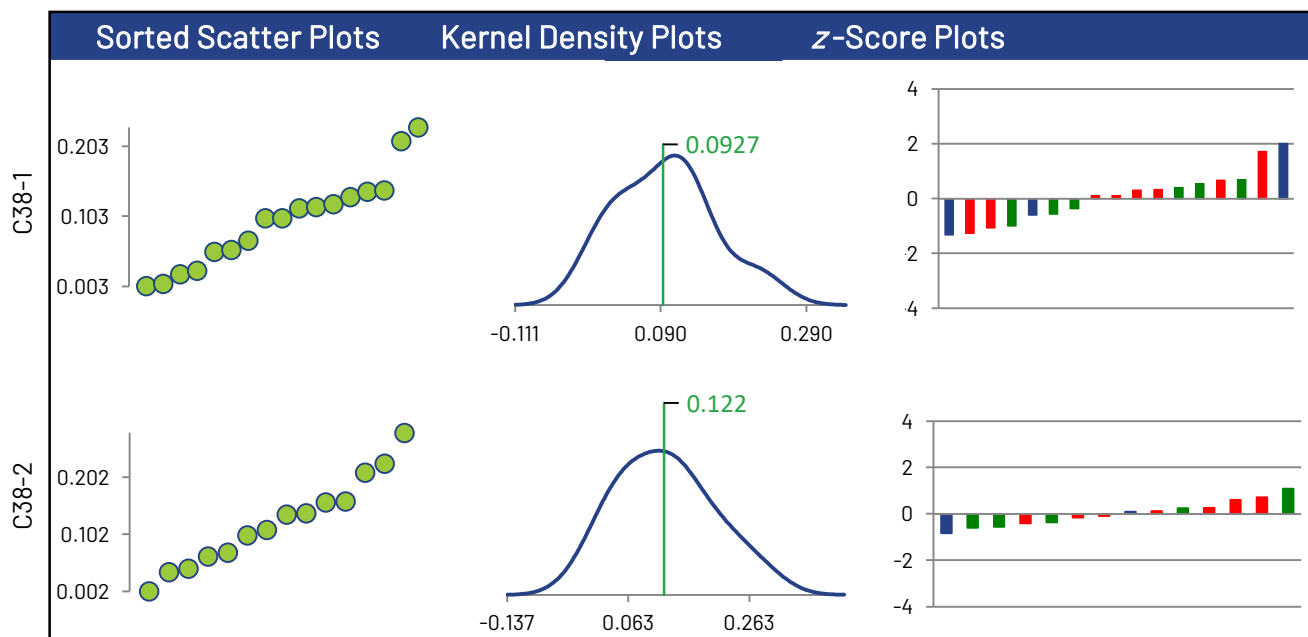
Excluded

Statistic	C38-1	C38-2	C38-3	C38-4
No. of results used for summary statistics	17	14	0	0
Median mg/L	0.100	0.124		
Robust Mean mg/L	0.0927	0.122		
Uncertainty of the Assigned Value mg/L	0.0206	0.0284		
Robust Standard Deviation mg/L	0.0679	0.0849		
Regression Standard Deviation mg/L				
Stability Flag		Stability		
Homogeneity Flag				
Standard Deviation Used (SDPA) mg/L	0.0679	0.145		
Flagged Outliers	0	0	0	0
$ z > 3.0$	0	0	0	0
$2 < z < 3$	1	0	0	0
Failure Rate %*	0.0			

Methods Used

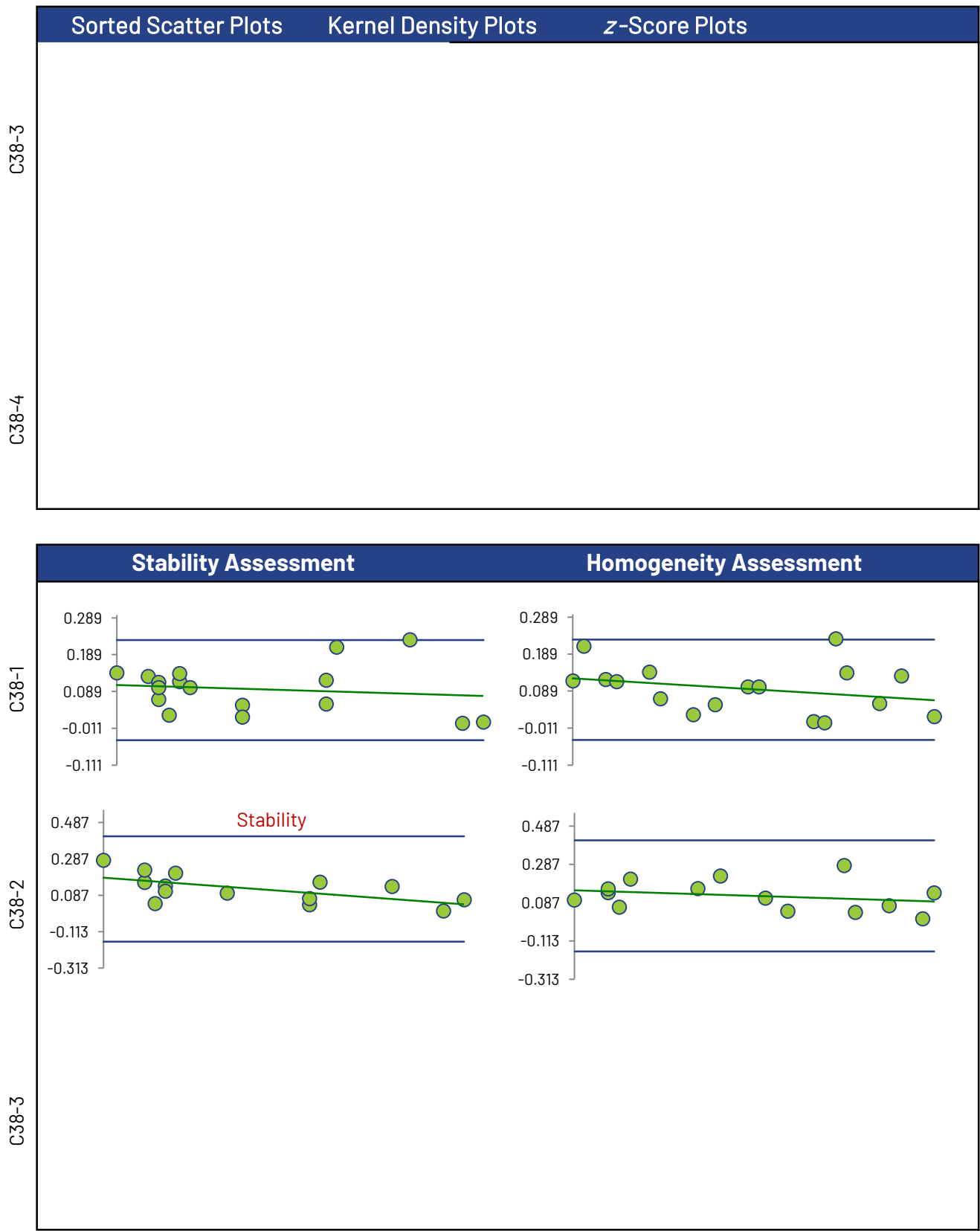
Method	C38-1	C38-2	C38-3	C38-4
GC/MS (Blue)	3	2	0	0
GC/MS - PURGE AND TRAP (Red)	8	7	0	0
GC/MS - HEADSPACE (Green)	6	5	0	0

All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers



* Displayed failure rate does not account for the RDL modified z-Scores or inaccurately reported non-detects.

Dichloromethane



Current Round (blue) Compared to Historic Rounds (green)

The scatter plot displays the relationship between Robust Mean (X-axis) and Robust Standard Deviation (Y-axis). The X-axis ranges from 0.011 to 1.211, and the Y-axis ranges from 0.009 to 1.009. A diagonal line represents the identity line (y=x). Data points are colored blue for the Current Round and green for Historic Rounds. The plot shows that the current round's statistics are generally closer to the historic rounds' statistics than the historic rounds' statistics are to each other.

Round Type	Robust Mean	Robust Standard Deviation
Current Round (blue)	0.011	0.009
Current Round (blue)	0.011	0.011
Current Round (blue)	0.011	0.013
Current Round (blue)	0.011	0.015
Current Round (blue)	0.011	0.017
Current Round (blue)	0.011	0.019
Current Round (blue)	0.011	0.021
Current Round (blue)	0.011	0.023
Current Round (blue)	0.011	0.025
Current Round (blue)	0.011	0.027
Current Round (blue)	0.011	0.029
Current Round (blue)	0.011	0.031
Current Round (blue)	0.011	0.033
Current Round (blue)	0.011	0.035
Current Round (blue)	0.011	0.037
Current Round (blue)	0.011	0.039
Current Round (blue)	0.011	0.041
Current Round (blue)	0.011	0.043
Current Round (blue)	0.011	0.045
Current Round (blue)	0.011	0.047
Current Round (blue)	0.011	0.049
Current Round (blue)	0.011	0.051
Current Round (blue)	0.011	0.053
Current Round (blue)	0.011	0.055
Current Round (blue)	0.011	0.057
Current Round (blue)	0.011	0.059
Current Round (blue)	0.011	0.061
Current Round (blue)	0.011	0.063
Current Round (blue)	0.011	0.065
Current Round (blue)	0.011	0.067
Current Round (blue)	0.011	0.069
Current Round (blue)	0.011	0.071
Current Round (blue)	0.011	0.073
Current Round (blue)	0.011	0.075
Current Round (blue)	0.011	0.077
Current Round (blue)	0.011	0.079
Current Round (blue)	0.011	0.081
Current Round (blue)	0.011	0.083
Current Round (blue)	0.011	0.085
Current Round (blue)	0.011	0.087
Current Round (blue)	0.011	0.089
Current Round (blue)	0.011	0.091
Current Round (blue)	0.011	0.093
Current Round (blue)	0.011	0.095
Current Round (blue)	0.011	0.097
Current Round (blue)	0.011	0.099
Current Round (blue)	0.011	0.101
Current Round (blue)	0.011	0.103
Current Round (blue)	0.011	0.105
Current Round (blue)	0.011	0.107
Current Round (blue)	0.011	0.109
Current Round (blue)	0.011	0.111
Current Round (blue)	0.011	0.113
Current Round (blue)	0.011	0.115
Current Round (blue)	0.011	0.117
Current Round (blue)	0.011	0.119
Current Round (blue)	0.011	0.121
Current Round (blue)	0.011	0.123
Current Round (blue)	0.011	0.125
Current Round (blue)	0.011	0.127
Current Round (blue)	0.011	0.129
Current Round (blue)	0.011	0.131
Current Round (blue)	0.011	0.133
Current Round (blue)	0.011	0.135
Current Round (blue)	0.011	0.137
Current Round (blue)	0.011	0.139
Current Round (blue)	0.011	0.141
Current Round (blue)	0.011	0.143
Current Round (blue)	0.011	0.145
Current Round (blue)	0.011	0.147
Current Round (blue)	0.011	0.149
Current Round (blue)	0.011	0.151
Current Round (blue)	0.011	0.153
Current Round (blue)	0.011	0.155
Current Round (blue)	0.011	0.157
Current Round (blue)	0.011	0.159
Current Round (blue)	0.011	0.161
Current Round (blue)	0.011	0.163
Current Round (blue)	0.011	0.165
Current Round (blue)	0.011	0.167
Current Round (blue)	0.011	0.169
Current Round (blue)	0.011	0.171
Current Round (blue)	0.011	0.173
Current Round (blue)	0.011	0.175
Current Round (blue)	0.011	0.177
Current Round (blue)	0.011	0.179
Current Round (blue)	0.011	0.181
Current Round (blue)	0.011	0.183
Current Round (blue)	0.011	0.185
Current Round (blue)	0.011	0.187
Current Round (blue)	0.011	0.189
Current Round (blue)	0.011	0.191
Current Round (blue)	0.011	0.193
Current Round (blue)	0.011	0.195
Current Round (blue)	0.011	0.197
Current Round (blue)	0.011	0.199
Current Round (blue)	0.011	0.201
Current Round (blue)	0.011	0.203
Current Round (blue)	0.011	0.205
Current Round (blue)	0.011	0.207
Current Round (blue)	0.011	0.209
Current Round (blue)	0.011	0.211
Current Round (blue)	0.011	0.213
Current Round (blue)	0.011	0.215
Current Round (blue)	0.011	0.217
Current Round (blue)	0.011	0.219
Current Round (blue)	0.011	0.221
Current Round (blue)	0.011	0.223
Current Round (blue)	0.011	0.225
Current Round (blue)	0.011	0.227
Current Round (blue)	0.011	0.229
Current Round (blue)	0.011	0.231
Current Round (blue)	0.011	0.233
Current Round (blue)	0.011	0.235
Current Round (blue)	0.011	0.237
Current Round (blue)	0.011	0.239
Current Round (blue)	0.011	0.241
Current Round (blue)	0.011	0.243
Current Round (blue)	0.011	0.245
Current Round (blue)	0.011	0.247
Current Round (blue)	0.011	0.249
Current Round (blue)	0.011	0.251
Current Round (blue)	0.011	0.253
Current Round (blue)	0.011	0.255
Current Round (blue)	0.011	0.257
Current Round (blue)	0.011	0.259
Current Round (blue)	0.011	0.261
Current Round (blue)	0.011	0.263
Current Round (blue)	0.011	0.265
Current Round (blue)	0.011	0.267
Current Round (blue)	0.011	0.269
Current Round (blue)	0.011	0.271
Current Round (blue)	0.011	0.273
Current Round (blue)	0.011	0.275
Current Round (blue)	0.011	0.277
Current Round (blue)	0.011	0.279
Current Round (blue)	0.011	0.281
Current Round (blue)	0.011	0.283
Current Round (blue)	0.011	0.285
Current Round (blue)	0.011	0.287
Current Round (blue)	0.011	0.289
Current Round (blue)	0.011	0.291
Current Round (blue)	0.011	0.293
Current Round (blue)	0.011	0.295
Current Round (blue)	0.011	0.297
Current Round (blue)	0.011	0.299
Current Round (blue)	0.011	0.301
Current Round (blue)	0.011	0.303
Current Round (blue)	0.011	0.305
Current Round (blue)	0.011	0.307
Current Round (blue)	0.011	0.309
Current Round (blue)	0.011	0.311
Current Round (blue)	0.011	0.313
Current Round (blue)	0.011	0.315
Current Round (blue)	0.011	0.317
Current Round (blue)	0.011	0.319
Current Round (blue)	0.011	0.321
Current Round (blue)	0.011	0.323
Current Round (blue)	0.011	0.325
Current Round (blue)	0.011	0.327
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Current Round (blue)	0.011	0.331
Current Round (blue)	0.011	0.333
Current Round (blue)	0.011	0.335
Current Round (blue)	0.011	0.337
Current Round (blue)	0.011	0.339
Current Round (blue)	0.011	0.341
Current Round (blue)	0.011	0.343
Current Round (blue)	0.011	0.345
Current Round (blue)	0.011	0.347
Current Round (blue)	0.011	0.349
Current Round (blue)	0.011	0.351
Current Round (blue)	0.011	0.353
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Current Round (blue)	0.011	0.375
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Current Round (blue)	0.011	0.385
Current Round (blue)	0.011	0.387
Current Round (blue)	0.011	0.389
Current Round (blue)	0.011	0.391
Current Round (blue)	0.011	0.393
Current Round (blue)	0.011	0.395
Current Round (blue)	0.011	0.397
Current Round (blue)	0.011	0.399
Current Round (blue)	0.011	0.401
Current Round (blue)	0.011	0.403
Current Round (blue)	0.011	0.405
Current Round (blue)	0.011	0.407
Current Round (blue)	0.011	0.409
Current Round (blue)	0.011	0.411
Current Round (blue)	0.011	0.413
Current Round (blue)	0.011	0.415
Current Round (blue)	0.011	0.417
Current Round (blue)	0.011	0.419
Current Round (blue)	0.011	0.421
Current Round (blue)	0.011	0.423
Current Round (blue)	0.011	0.425
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Current Round (blue)	0.011	0.455
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Current Round (blue)	0.011	0.481
Current Round (blue)	0.011	0.483
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Current Round (blue)	0.011	0.487
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Current Round (blue)	0.011	0.493
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Current Round (blue)	0.011	0.497
Current Round (blue)	0.011	0.499
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Current Round (blue)	0.011	0.503
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Current Round (blue)	0.011	0.525
Current Round (blue)	0.011	0.527
Current Round (blue)	0.011	0.529
Current Round (blue)	0.011	0.531
Current Round (blue)	0.011	0.533
Current Round (blue)	0.011	0.535
Current Round (blue)	0.011	0.537
Current Round (blue)	0.011	0.539
Current Round (blue)	0.011	0.541
Current Round (blue)	0.011	0.543
Current Round (blue)	0.011	0.545
Current Round (blue)	0.011	0.547
Current Round (blue)	0.011	0.549
Current Round (blue)	0.011	0.551
Current Round (blue)	0.011	0.553
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Current Round (blue)	0.011	0.561
Current Round (blue)	0.011	0.563
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Current Round (blue)	0.011	0.567
Current Round (blue)	0.011	0.569
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Current Round (blue)	0.011	0.573
Current Round (blue)	0.011	0.575
Current Round (blue)	0.011	0.577
Current Round (blue)	0.011	0.579
Current Round (blue)	0.011	0.581
Current Round (blue)	0.011	0.583
Current Round (blue)	0.011	0.585
Current Round (blue)	0.011	0.587
Current Round (blue)	0.011	0.589
Current Round (blue)	0.011	0.591
Current Round (blue)	0.011	0.593
Current Round (blue)	0.011	0.595
Current Round (blue)	0.011	0.597
Current Round (blue)	0.011	0.599
Current Round (blue)	0.011	0.601
Current Round (blue)	0.011	0.603
Current Round (blue)	0.011	0.605
Current Round (blue)	0.011	0.607
Current Round (blue)	0.011	0.609
Current Round (blue)	0.011	0.611
Current Round (blue)	0.011	0.613
Current Round (blue)	0.011	0.615
Current Round (blue)	0.011	0.617
Current Round (blue)	0.011	0.619
Current Round (blue)	0.011	0.621
Current Round (blue)	0.011	0.623
Current Round (blue)	0.011	0.625
Current Round (blue)	0.011	0.627
Current Round (blue)	0.011	0.629
Current Round (blue)	0.011	0.631
Current Round (blue)	0.011	0.633
Current Round (blue)	0.011	0.635
Current Round (blue)	0.011	0.637
Current Round (blue)	0.011	0.639
Current Round (blue)	0.011	0.641
Current Round (blue)	0.011	0.643
Current Round (blue)	0.011	0.645
Current Round (blue)	0.011	0.647
Current Round (blue)	0.011	0.649
Current Round (blue)	0.011	0.651
Current Round (blue)	0.011	0.653
Current Round (blue)	0.011	0.655
Current Round (blue)	0.011	0.657
Current Round (blue)	0.011	0.659
Current Round (blue)	0.011	0.661
Current Round (blue)	0.011	0.663
Current Round (blue)	0.011	0.665
Current Round (blue)	0.011	0.667
Current Round (blue)	0.011	0.669
Current Round (blue)	0.011	0.671
Current Round (blue)	0.011	0.673
Current Round (blue)	0.011	0.675
Current Round (blue)	0.011	0.677
Current Round (blue)	0.011	0.679
Current Round (blue)	0.011	0.681
Current Round (blue)	0.011	0.683
Current Round (blue)	0.011	0.685
Current Round (blue)	0.011	0.687
Current Round (blue)	0.011	0.689
Current Round (blue)	0.011	0.691
Current Round (blue)	0.011	0.693
Current Round (blue)	0.011	0.695
Current Round (blue)	0.011	0.697
Current Round (blue)	0.011	0.699
Current Round (blue)	0.011	0.701
Current Round (blue)	0.011	0.703
Current Round (blue)	0.011	0.705
Current Round (blue)	0.011	0.707
Current Round (blue)	0.011	0.709
Current Round (blue)	0.011	0.711
Current Round (blue)	0.011	0.713
Current Round (blue)	0.011	0.715
Current Round (blue)	0.011	0.717
Current Round (blue)	0.011	0.719
Current Round (blue)	0.011	0.721
Current Round (blue)	0.011	0.723
Current Round (blue)	0.011	0.725
Current Round (blue)	0.011	0.727
Current Round (blue)	0.011	0.729
Current Round (blue)	0.011	0.731
Current Round (blue)	0.011	0.733
Current Round (blue)	0.011	0.735
Current Round (blue)	0.011	0.737
Current Round (blue)	0.011	0.739
Current Round (blue)	0.011	0.741
Current Round (blue)	0.011	0.743

Methyl ethyl ketone

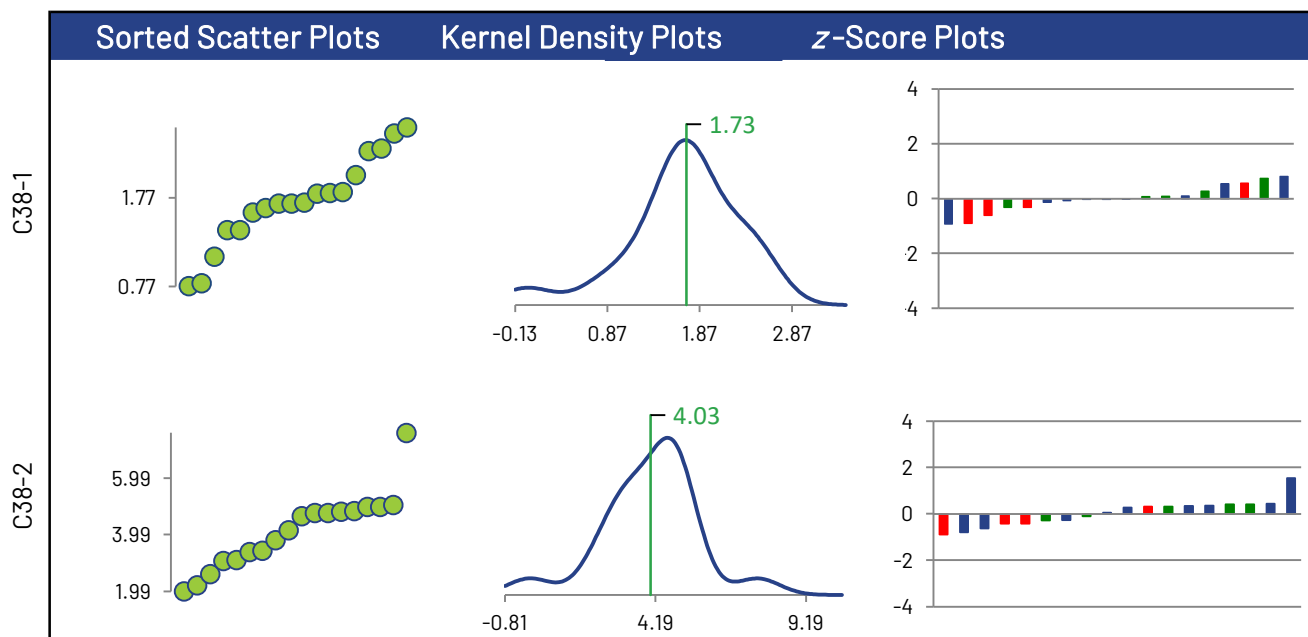
Summary Statistics

Statistic	C38-1	C38-2	C38-3	C38-4
No. of results used for summary statistics	18	18	0	0
Median mg/L	1.71	4.40		
Robust Mean mg/L	1.73	4.03		
Uncertainty of the Assigned Value mg/L	0.163	0.365		
Robust Standard Deviation mg/L	0.553	1.24		
Regression Standard Deviation mg/L				
Stability Flag	Stability	Stability		
Homogeneity Flag				
Standard Deviation Used (SDPA) mg/L	1.03	2.29		
Flagged Outliers	0	0	0	0
$ z > 3.0$	0	0	0	0
$2 < z < 3$	0	0	0	0
Failure Rate %*	0.0			

Methods Used

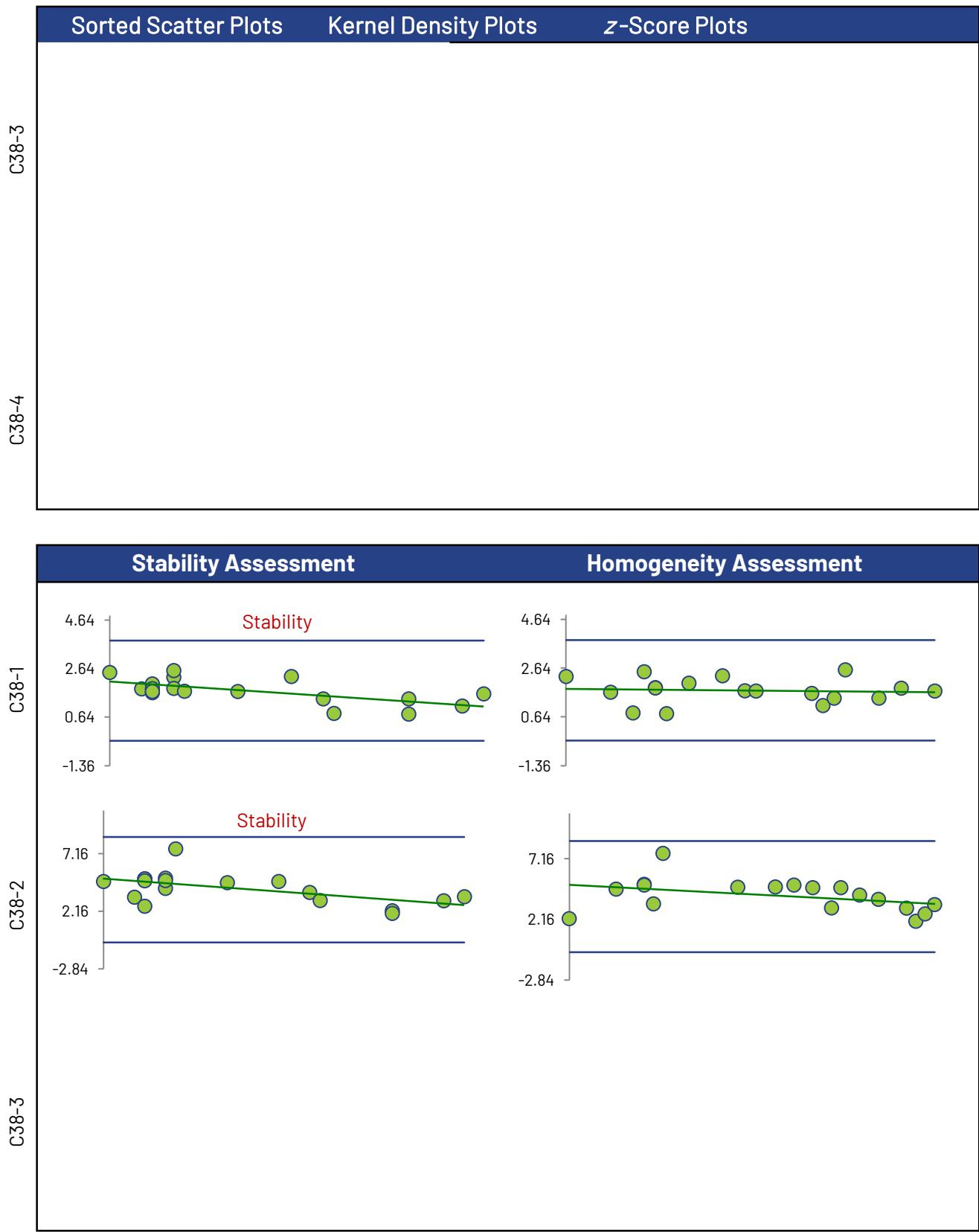
Method	C38-1	C38-2	C38-3	C38-4
GC/MS - PURGE AND TRAP (Blue)	9	9	0	0
GC/MS (Red)	4	4	0	0
GC/MS - HEADSPACE (Green)	5	5	0	0

All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers



* Displayed failure rate does not account for the RDL modified z-Scores or inaccurately reported non-detects.

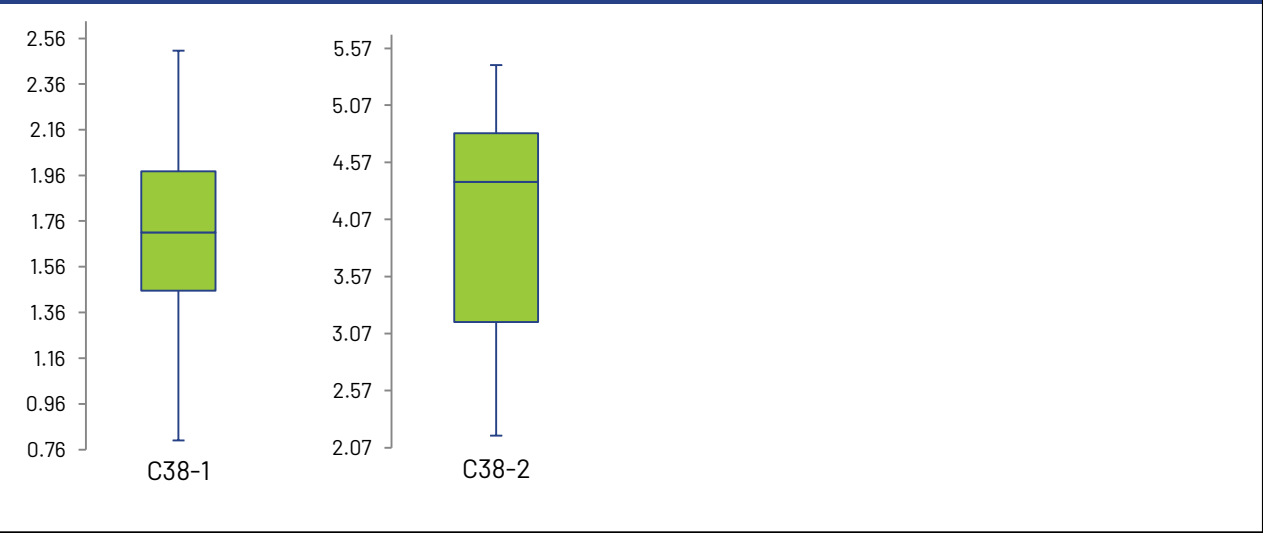
Methyl ethyl ketone



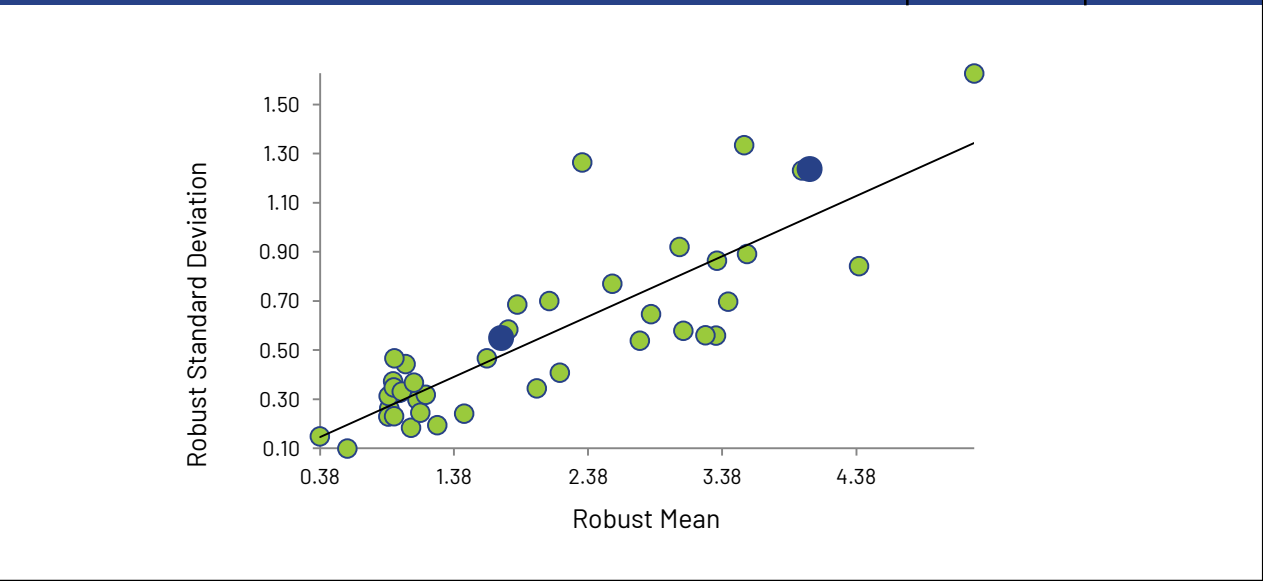
Methyl ethyl ketone

C38-4	Stability Assessment	Homogeneity Assessment
	<p>Stability assessments are regression analysis of reported result against date of analysis.</p> <p>Homogeneity assessments are regression analysis of reported result against bottling order.</p>	

Box and Whisker Plots



Current Round (blue) Compared to Historic Rounds (green)



Tetrachloroethylene

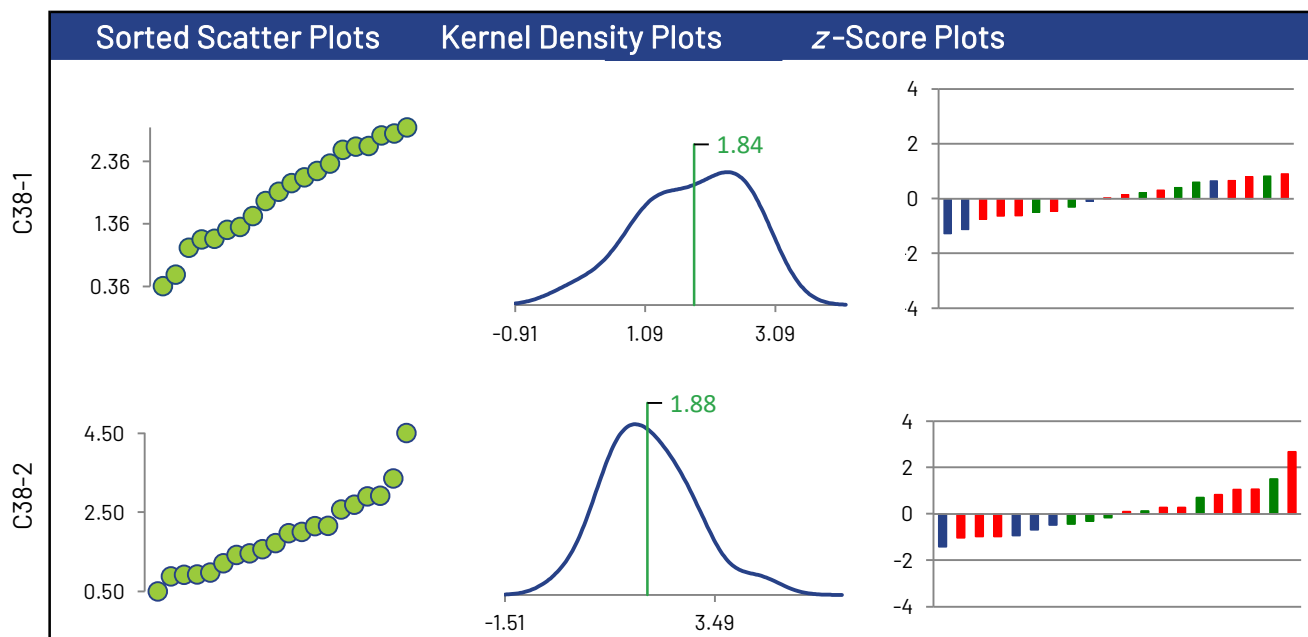
Summary Statistics

Statistic	C38-1	C38-2	C38-3	C38-4
No. of results used for summary statistics	20	20	0	0
Median mg/L	1.94	1.85		
Robust Mean mg/L	1.84	1.88		
Uncertainty of the Assigned Value mg/L	0.240	0.275		
Robust Standard Deviation mg/L	0.858	0.985		
Regression Standard Deviation mg/L				
Stability Flag	Stability			
Homogeneity Flag				
Standard Deviation Used (SDPA) mg/L	1.16	0.985		
Flagged Outliers	0	0	0	0
$ z > 3.0$	0	0	0	0
$2 < z < 3$	0	1	0	0
Failure Rate %*	0.0			

Methods Used

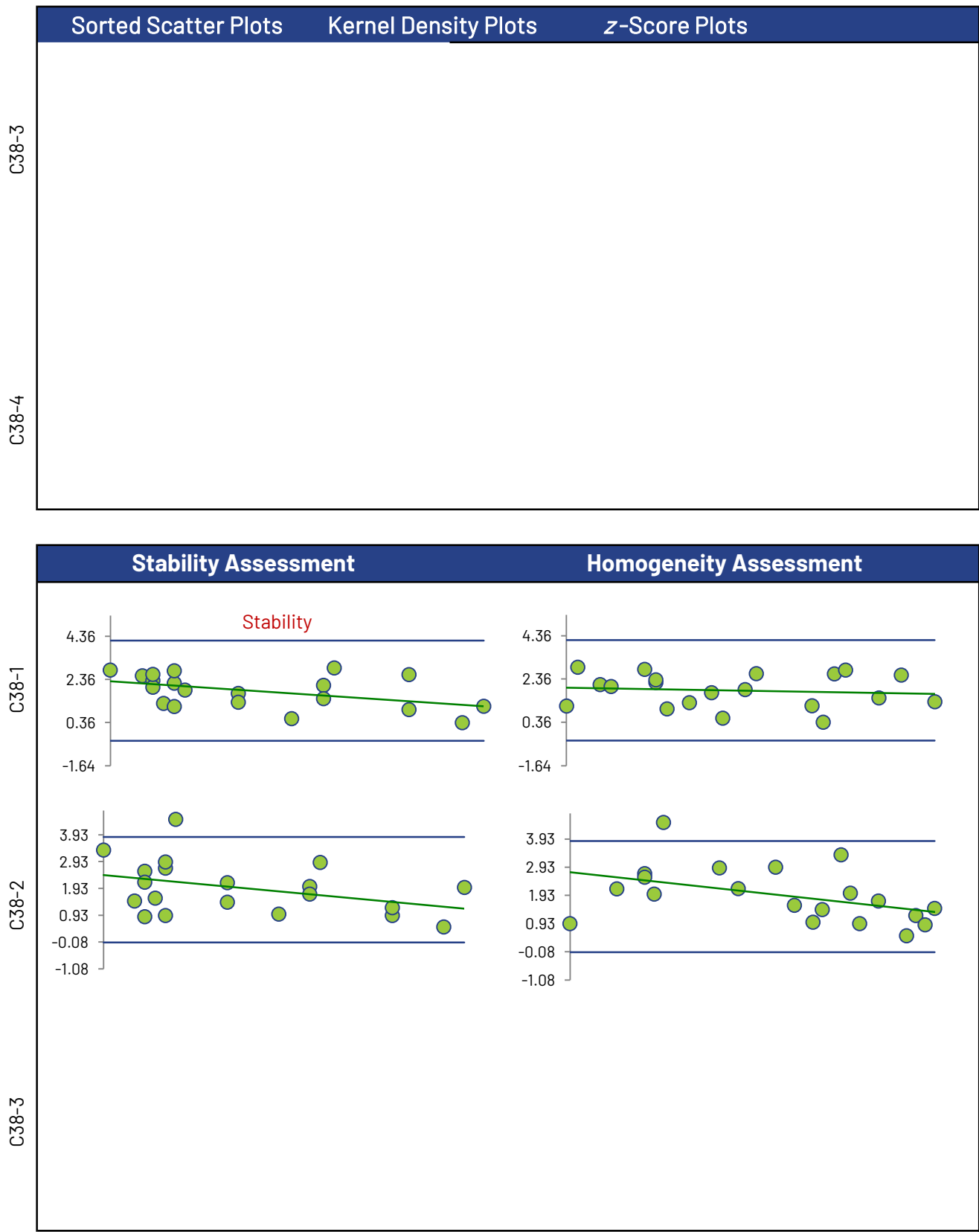
Method	C38-1	C38-2	C38-3	C38-4
GC/MS (Blue)	4	4	0	0
GC/MS - PURGE AND TRAP (Red)	10	10	0	0
GC/MS - HEADSPACE (Green)	6	6	0	0

All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers



* Displayed failure rate does not account for the RDL modified z-Scores or inaccurately reported non-detects.

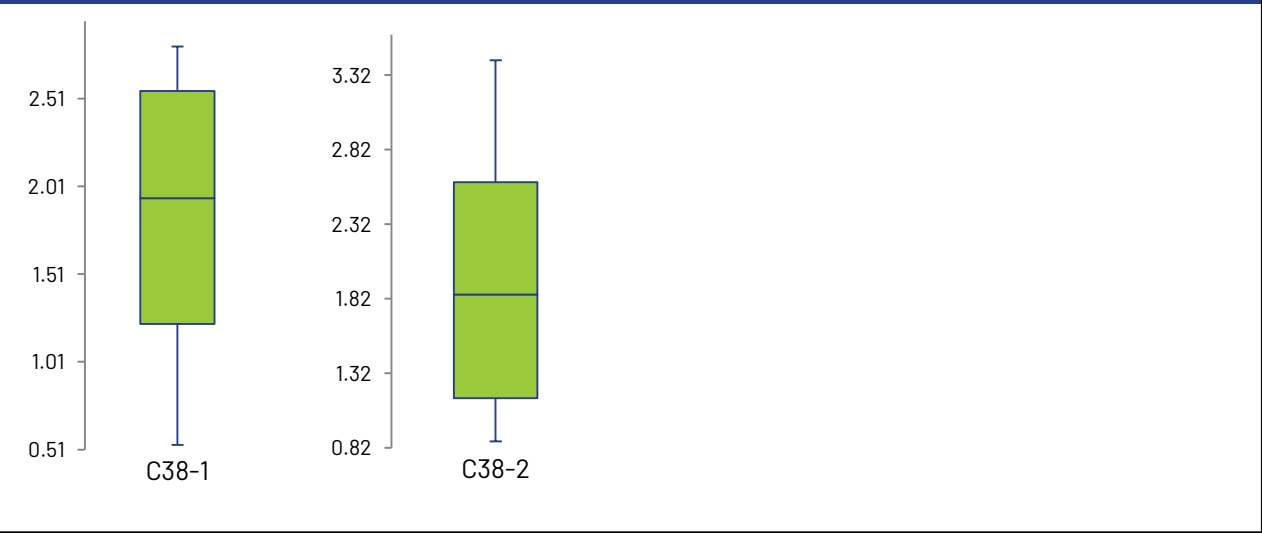
Tetrachloroethylene



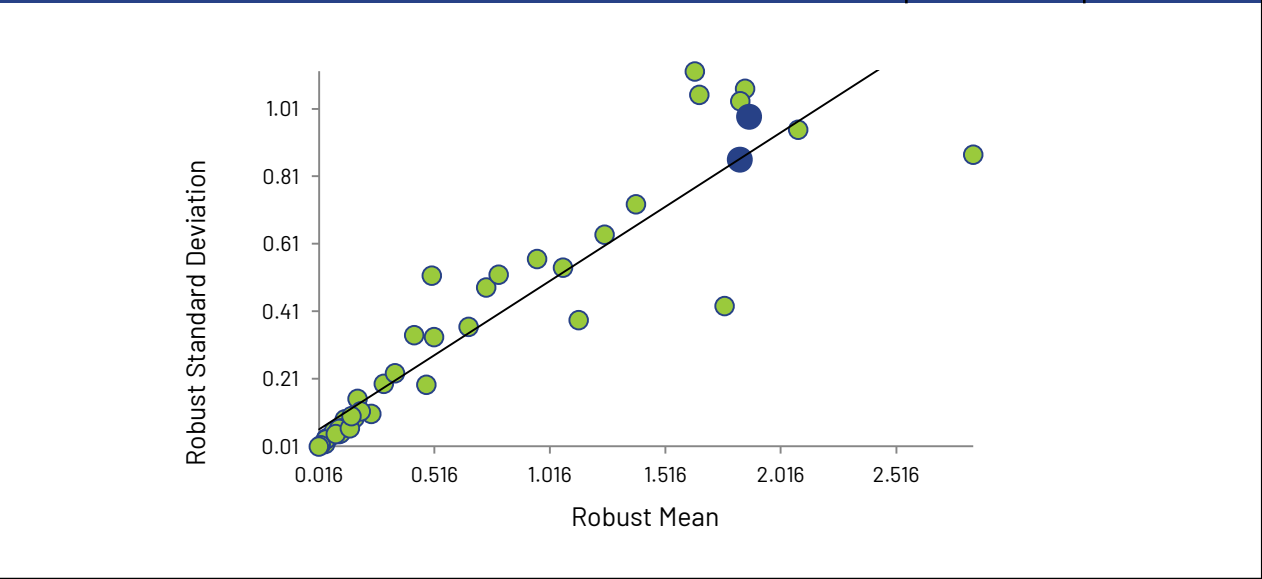
Tetrachloroethylene

C38-4	Stability Assessment	Homogeneity Assessment
	<p>Stability assessments are regression analysis of reported result against date of analysis.</p> <p>Homogeneity assessments are regression analysis of reported result against bottling order.</p>	

Box and Whisker Plots



Current Round (blue) Compared to Historic Rounds (green)



Trichloroethylene

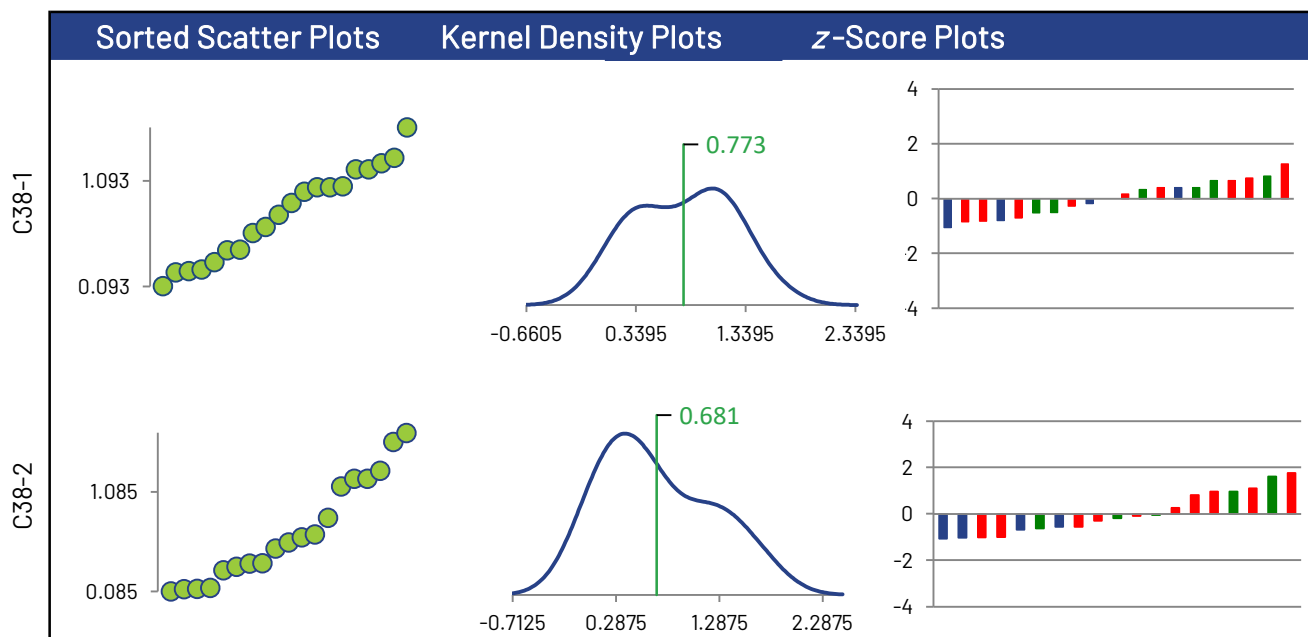
Summary Statistics

Statistic	C38-1	C38-2	C38-3	C38-4
No. of results used for summary statistics	20	19	0	0
Median mg/L	0.827	0.579		
Robust Mean mg/L	0.773	0.681		
Uncertainty of the Assigned Value mg/L	0.136	0.162		
Robust Standard Deviation mg/L	0.485	0.564		
Regression Standard Deviation mg/L				
Stability Flag	Stability			
Homogeneity Flag				
Standard Deviation Used (SDPA) mg/L	0.650	0.564		
Flagged Outliers	0	1	0	0
$ z > 3.0$	0	0	0	0
$2 < z < 3$	0	0	0	0
Failure Rate %*	5.0			

Methods Used

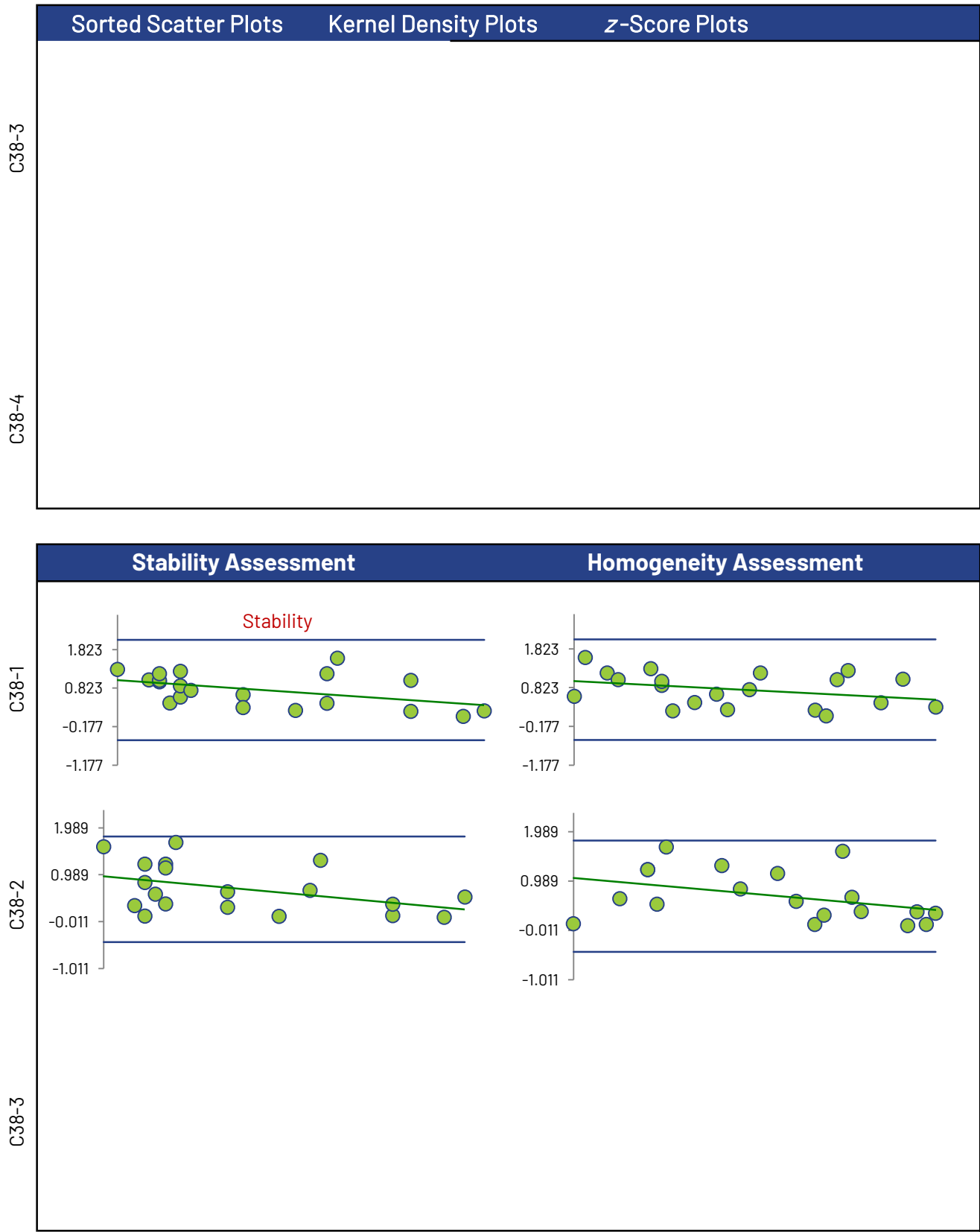
Method	C38-1	C38-2	C38-3	C38-4
GC/MS (Blue)	4	4	0	0
GC/MS - PURGE AND TRAP (Red)	10	10	0	0
GC/MS - HEADSPACE (Green)	6	5	0	0

All summary stats, except the failure rate, and the plots below are based on the data excluding any flagged outliers



* Displayed failure rate does not account for the RDL modified z-Scores or inaccurately reported non-detects.

Trichloroethylene



Trichloroethylene

