

Test Group Summary Report

C07 PAHs in Water

June 2026 PT Round

Issued: August 10, 2026

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1.0 The Proficiency Testing Report

The Proficiency Testing Report consists of two parts.

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

2.0 Definitions

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

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

3.0 Scoring System

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

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

3.1 HOMOGENEITY AND STABILITY ASSESSMENT

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

3.2 THE Z SCORE

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

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

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

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

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

3.2 COMPOSITE (PT) SCORE

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

Acceptable PT Scores equal or exceed 70.

3.3 IDENTIFYING BIAS

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

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

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.

Acenaphthene

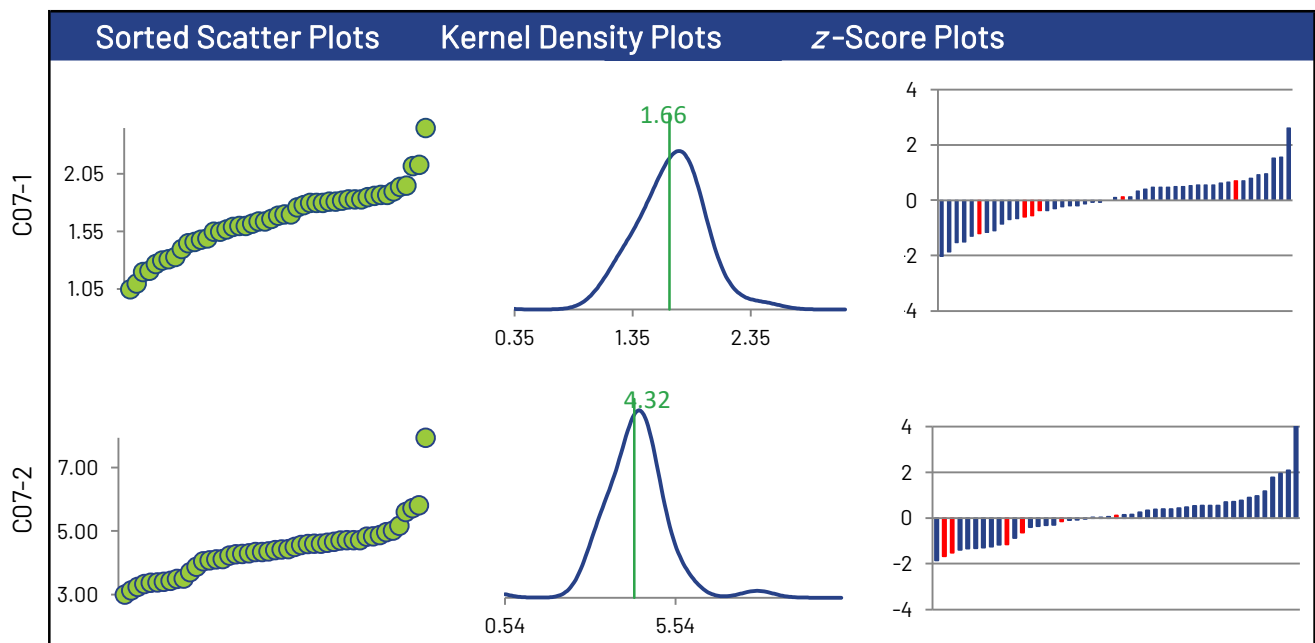
Summary Statistics

Statistic	C07-1	C07-2	C07-3	C07-4
No. of results used for summary statistics	47	47	47	47
Median µg/L	1.69	4.40	7.90	11.0
Robust Mean µg/L	1.66	4.32	7.65	10.7
Uncertainty of the Assigned Value µg/L	0.0483	0.130	0.221	0.263
Robust Standard Deviation µg/L	0.265	0.713	1.21	1.44
Regression Standard Deviation µg/L	0.301	0.686	1.17	1.61
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/L	0.301	0.713	1.21	1.61
Flagged Outliers	0	0	0	0
$ z > 3.0$	0	1	0	0
$2 < z < 3$	2	1	5	3
Failure Rate %*	2.1			

Methods Used

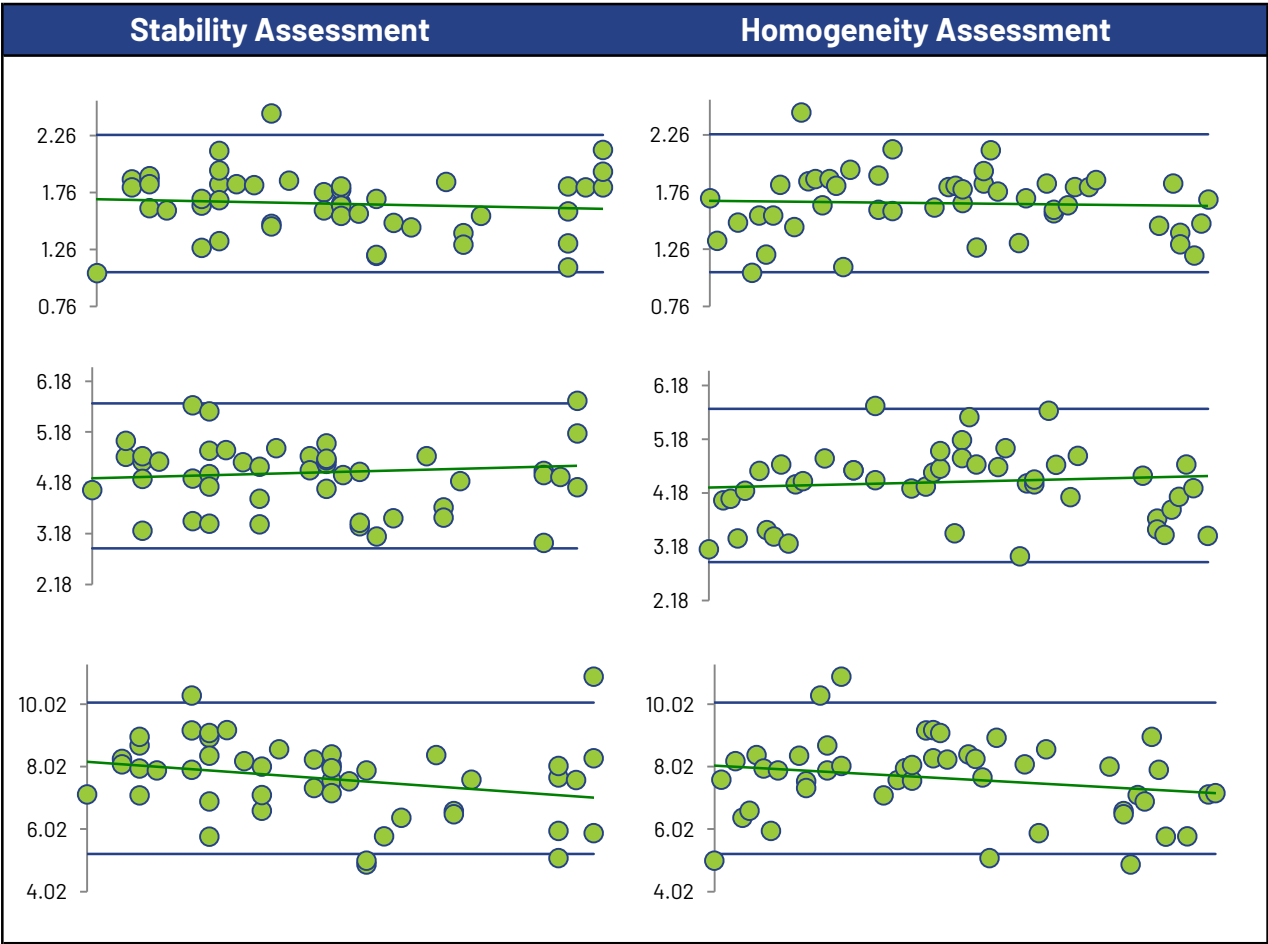
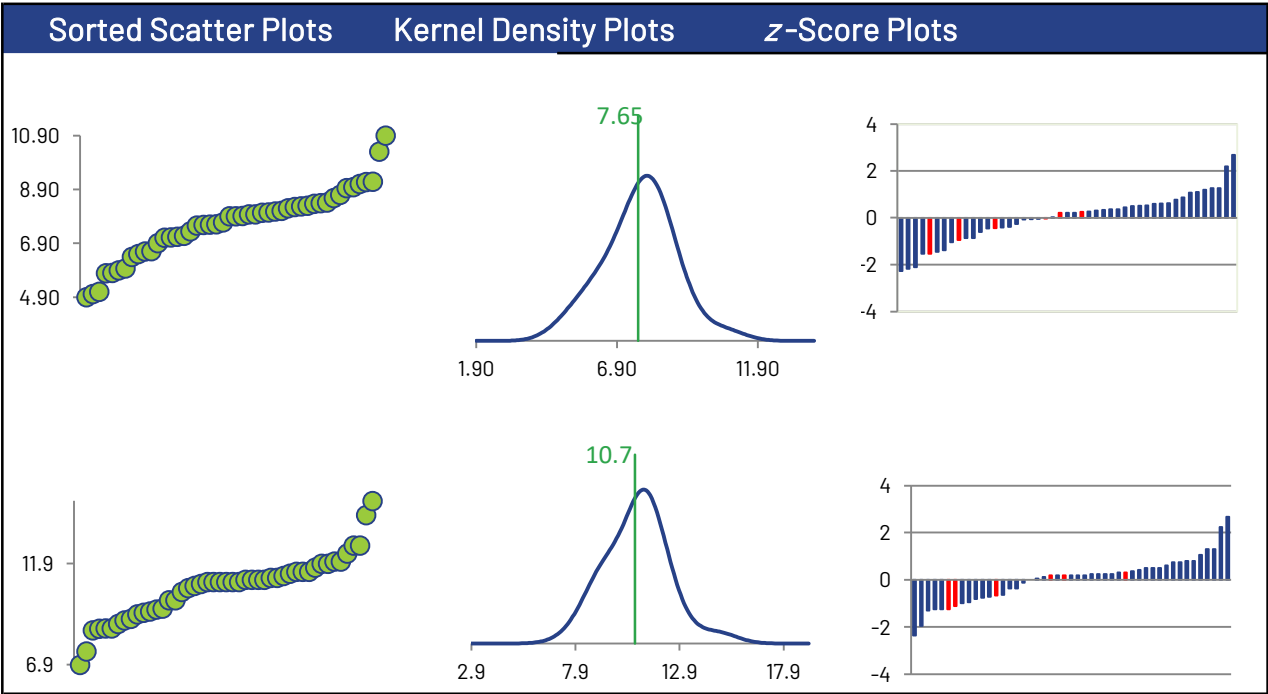
Method	C07-1	C07-2	C07-3	C07-4
GC/MS (Blue)	41	41	41	41
GC/MS/MS (Red)	6	6	6	6

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

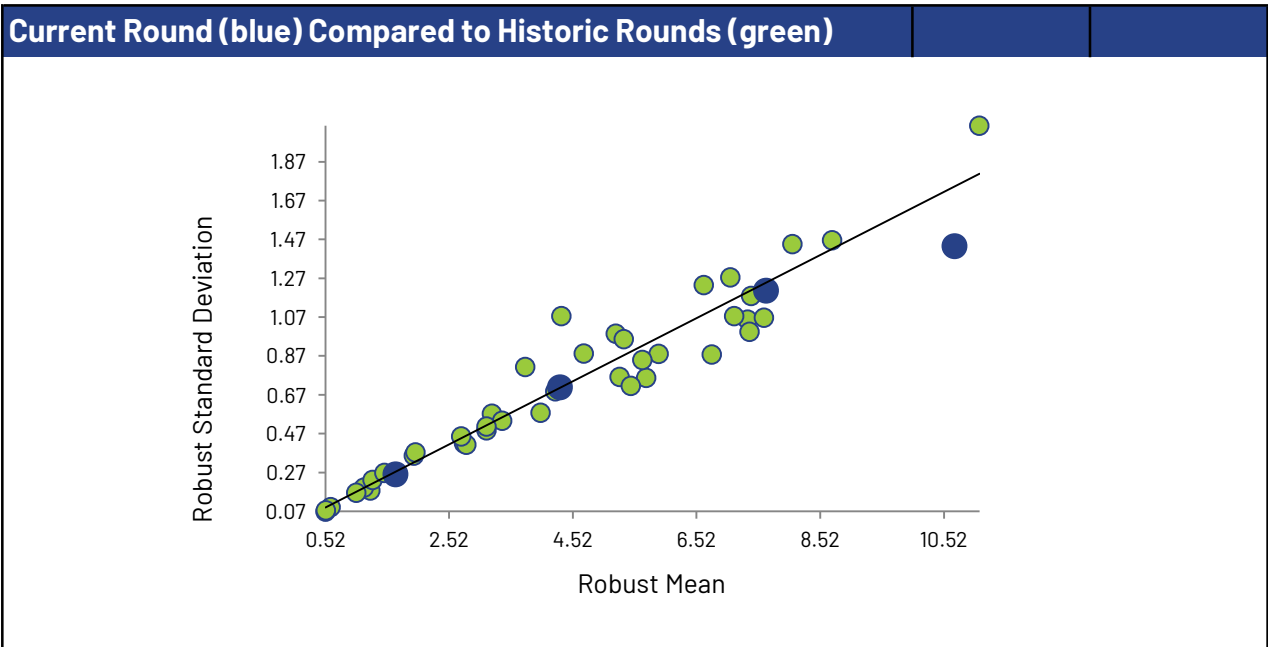
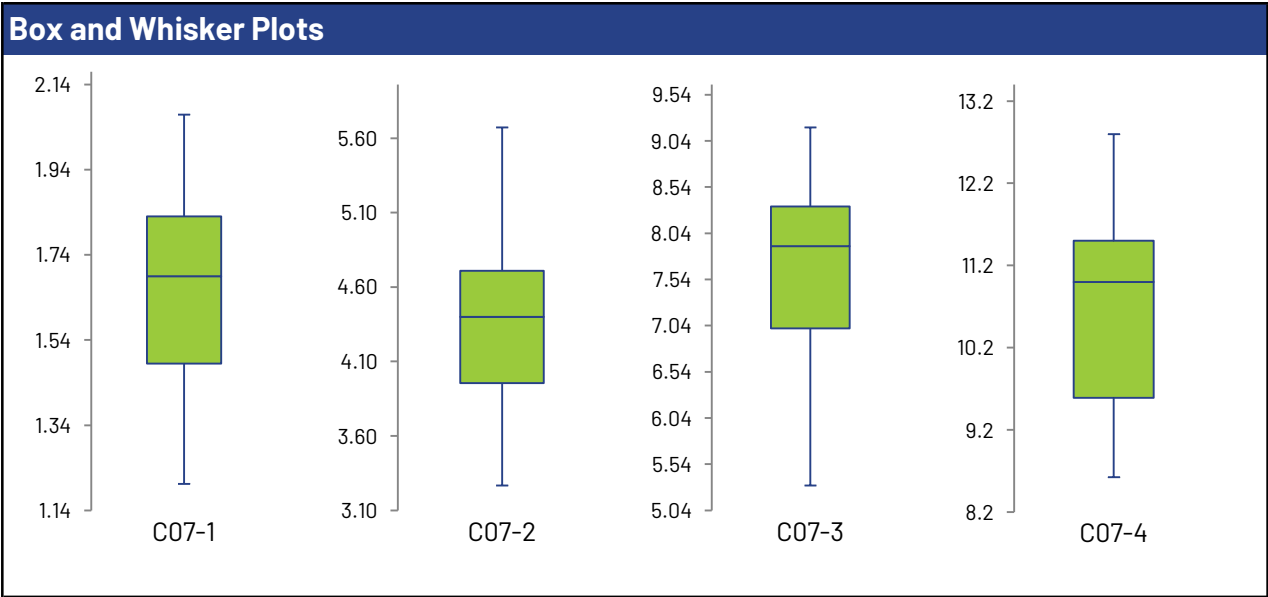
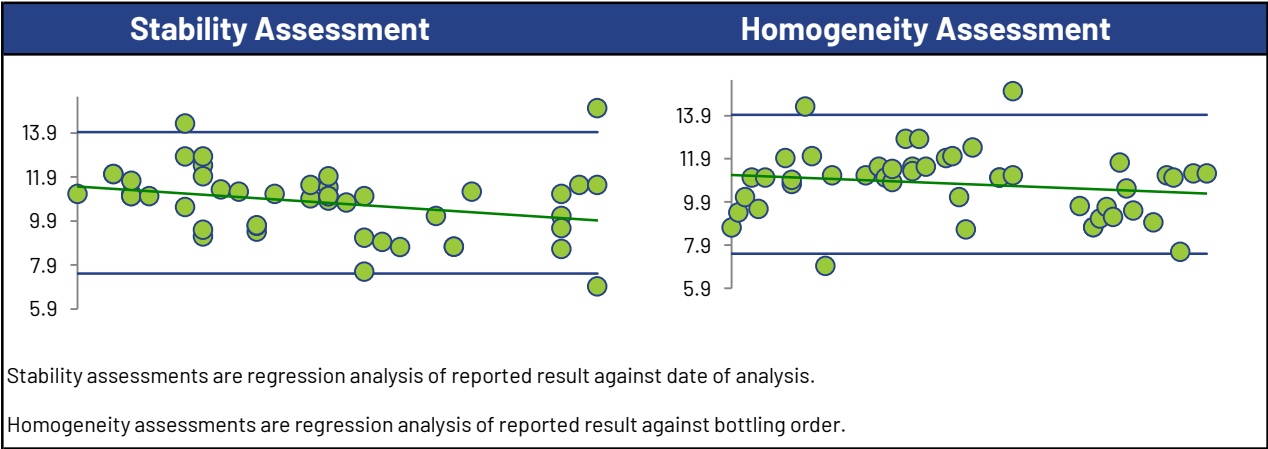


* Displayed failure rate does not account for the RDL modified z-Scores or inaccurately reported non-detects.

Acenaphthene



Acenaphthene



Acenaphthylene

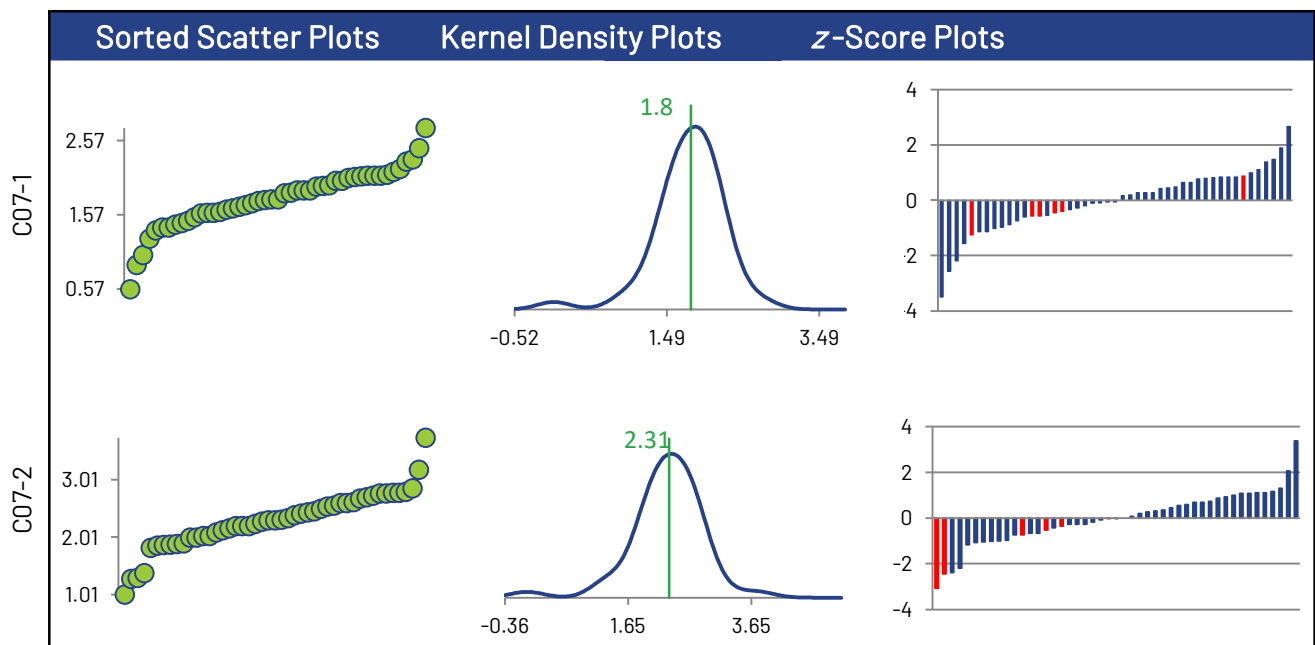
Summary Statistics

Statistic	C07-1	C07-2	C07-3	C07-4
No. of results used for summary statistics	47	47	47	47
Median µg/L	1.78	2.30	3.80	6.05
Robust Mean µg/L	1.80	2.31	3.92	6.04
Uncertainty of the Assigned Value µg/L	0.0642	0.0773	0.129	0.161
Robust Standard Deviation µg/L	0.352	0.424	0.707	0.884
Regression Standard Deviation µg/L	0.333	0.418	0.687	1.04
Stability Flag			Stability	Stability
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/L	0.352	0.424	0.915	1.49
Flagged Outliers	0	0	0	0
$ z > 3.0$	1	2	0	0
$2 < z < 3$	3	4	0	0
Failure Rate %*	0.0			

Methods Used

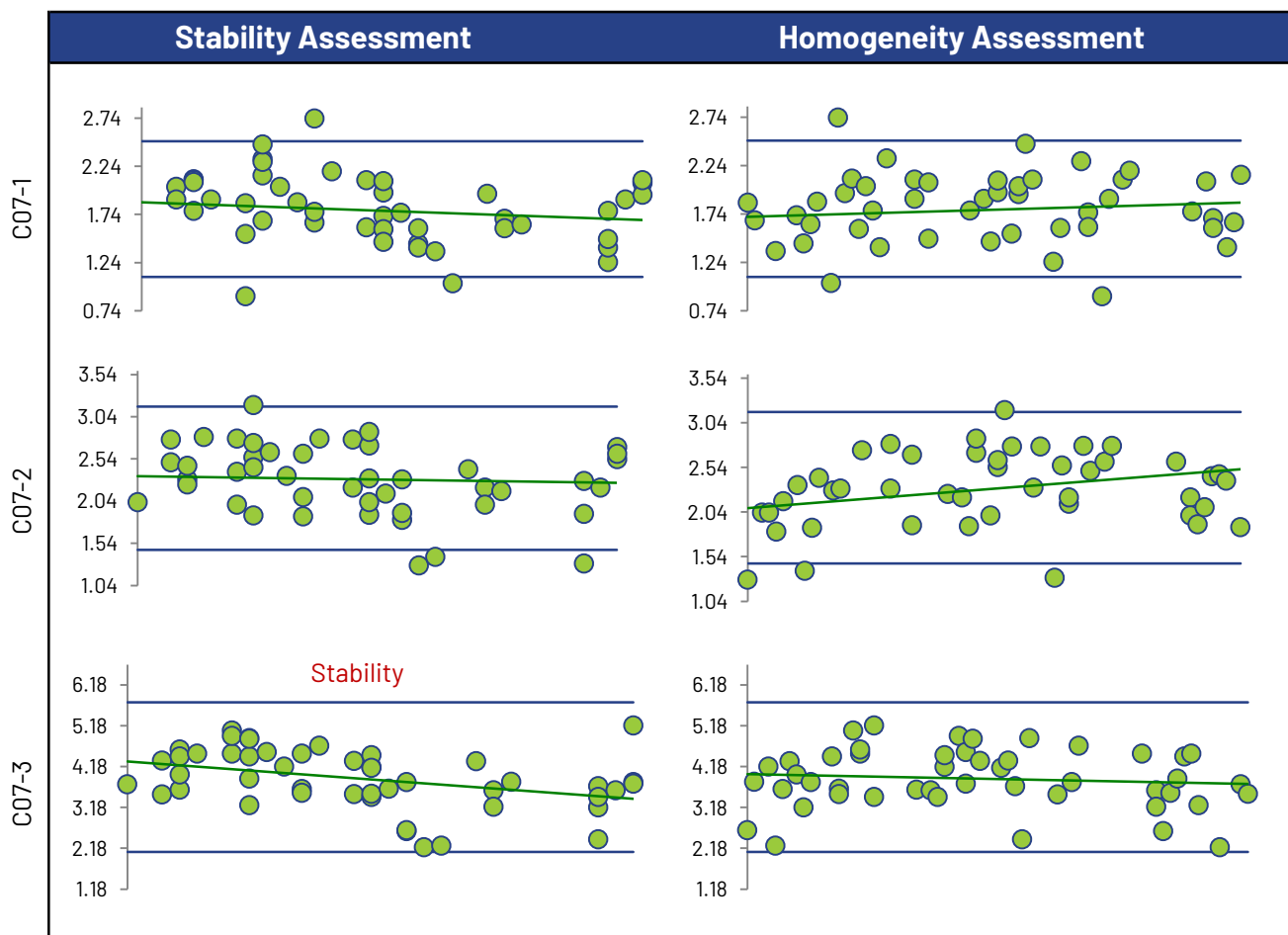
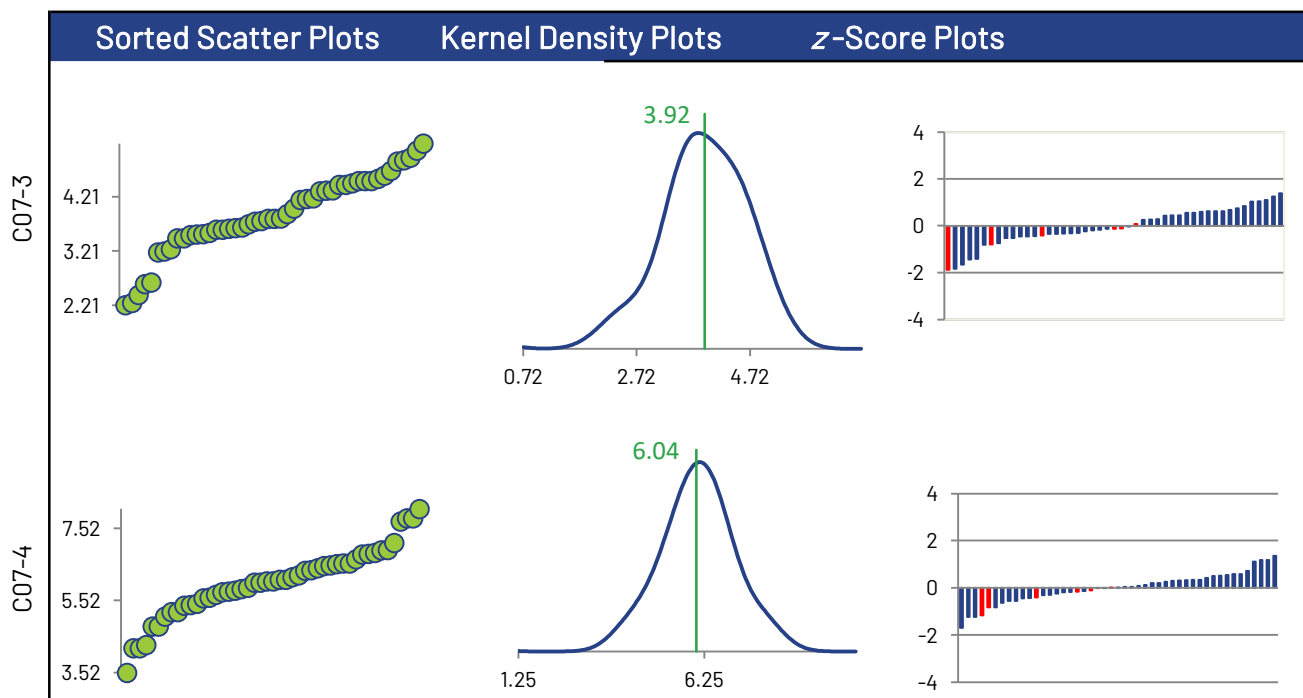
Method	C07-1	C07-2	C07-3	C07-4
GC/MS (Blue)	41	41	41	41
GC/MS/MS (Red)	6	6	6	6

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

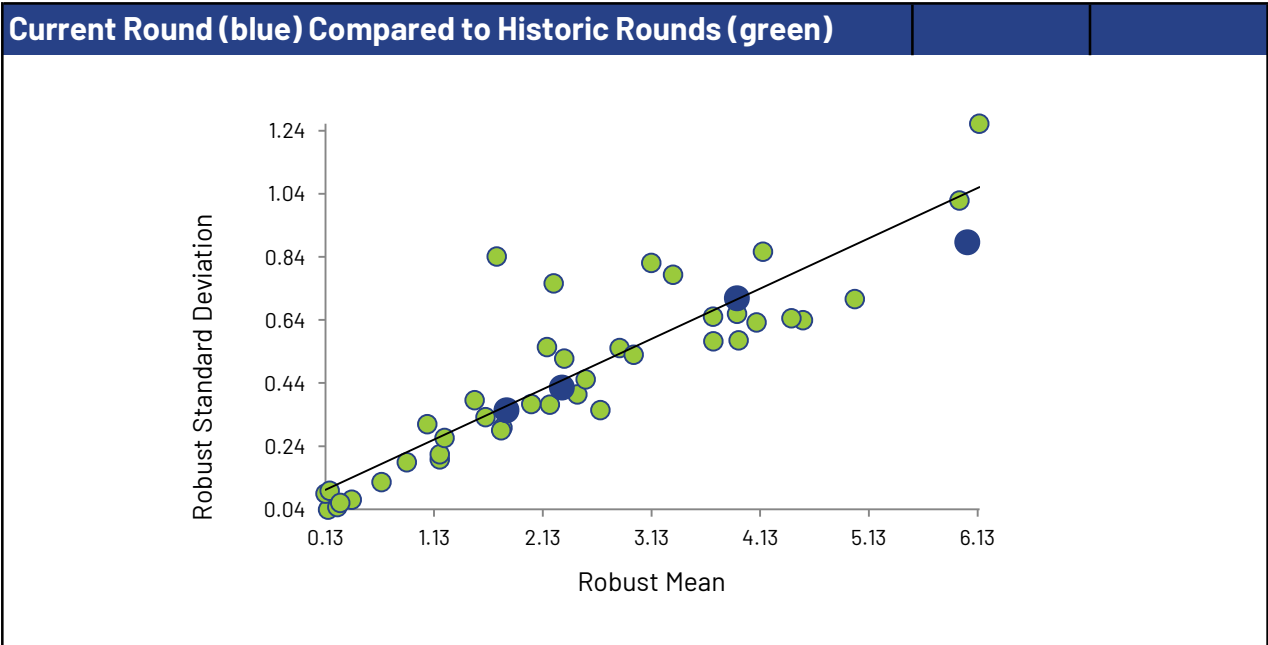
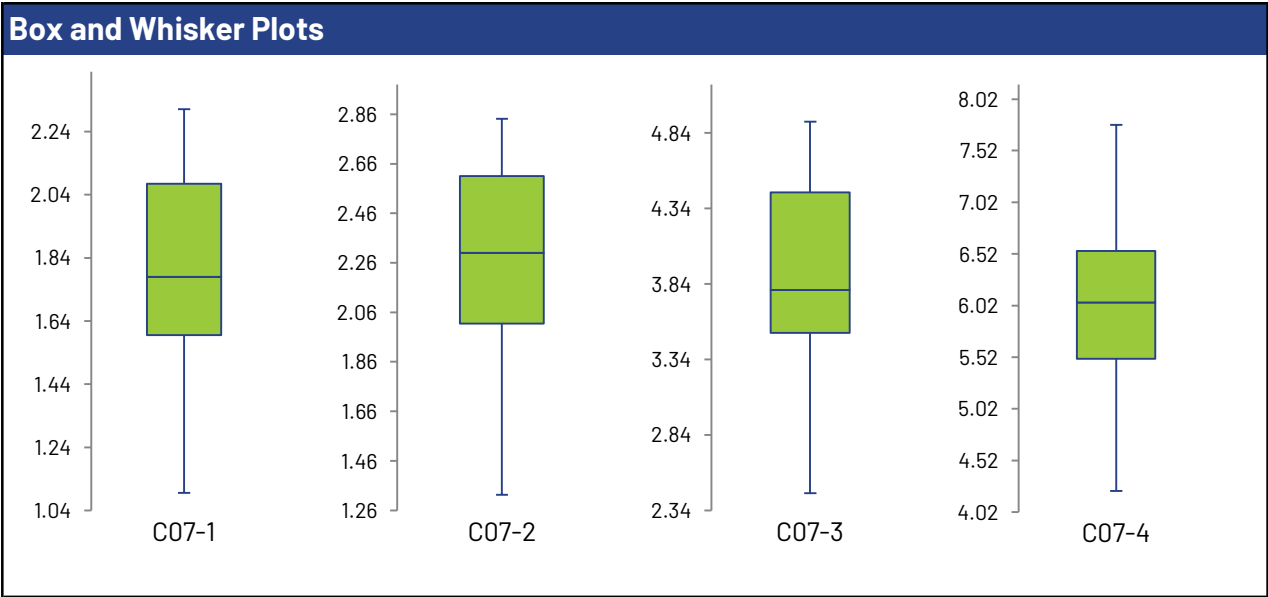
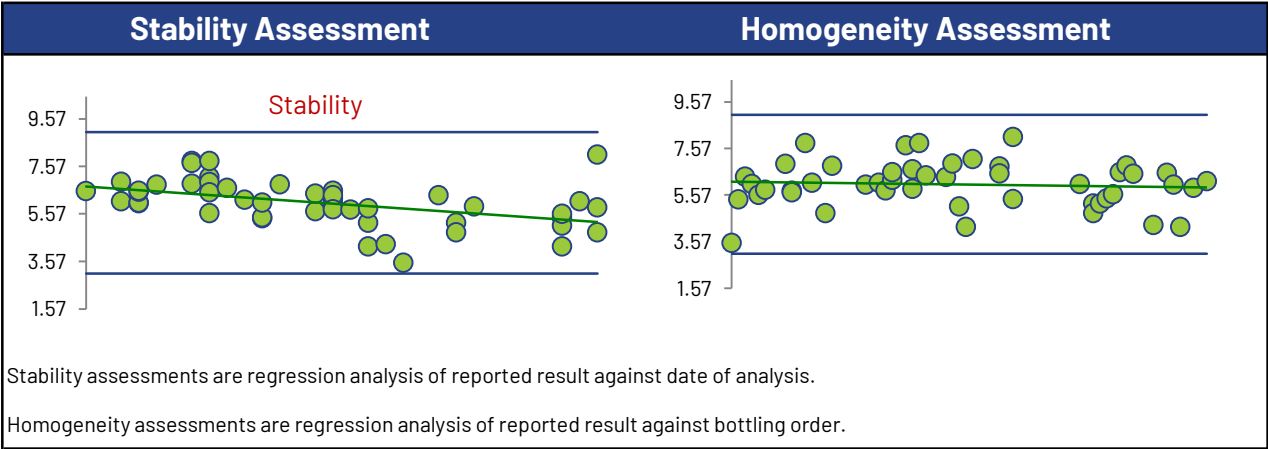


* Displayed failure rate does not account for the RDL modified z-Scores or inaccurately reported non-detects.

Acenaphthylene



Acenaphthylene



Anthracene

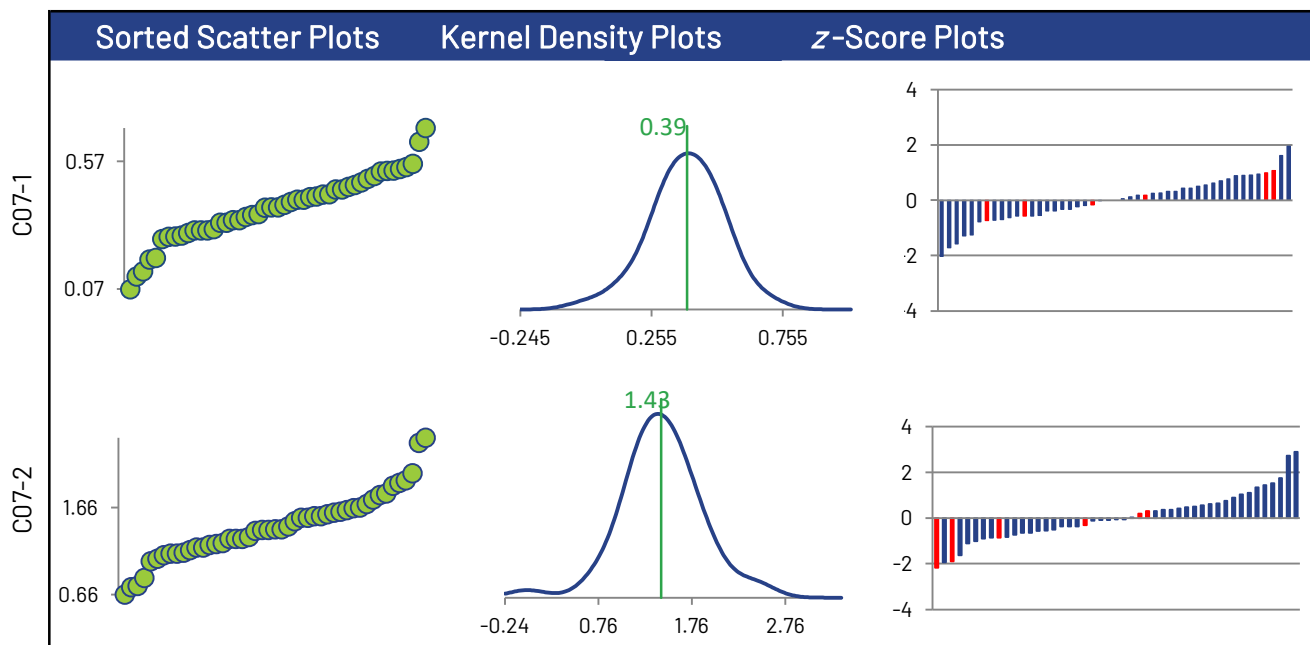
Summary Statistics

Statistic	C07-1	C07-2	C07-3	C07-4
No. of results used for summary statistics	47	47	47	47
Median µg/L	0.390	1.41	2.22	2.78
Robust Mean µg/L	0.390	1.43	2.22	2.83
Uncertainty of the Assigned Value µg/L	0.0230	0.0647	0.0965	0.119
Robust Standard Deviation µg/L	0.126	0.355	0.529	0.654
Regression Standard Deviation µg/L	0.141	0.328	0.468	0.578
Stability Flag	Stability		Stability	Stability
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/L	0.158	0.355	0.726	1.05
Flagged Outliers	0	0	0	0
$ z > 3.0$	0	0	0	0
$2 < z < 3$	1	3	0	0
Failure Rate %*	0.0			

Methods Used

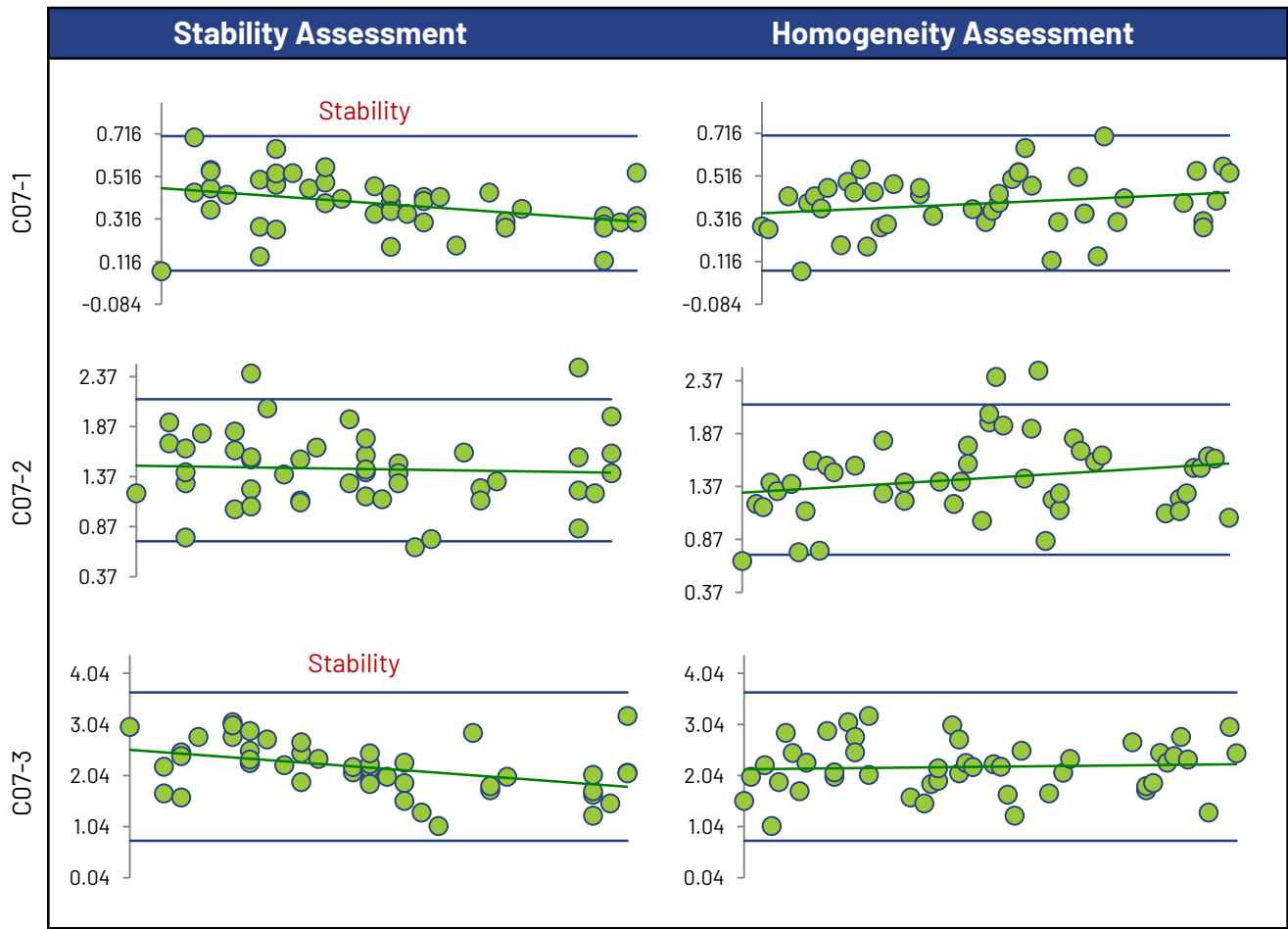
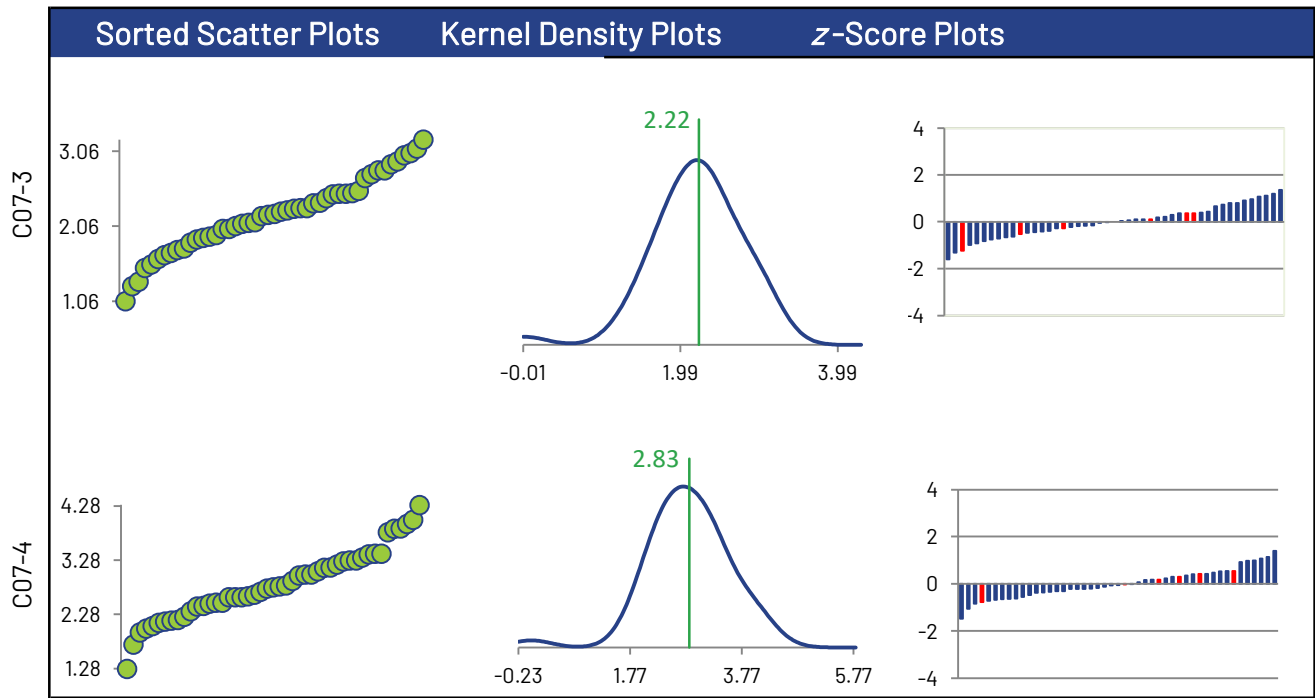
Method	C07-1	C07-2	C07-3	C07-4
GC/MS (Blue)	41	41	41	41
GC/MS/MS (Red)	6	6	6	6

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

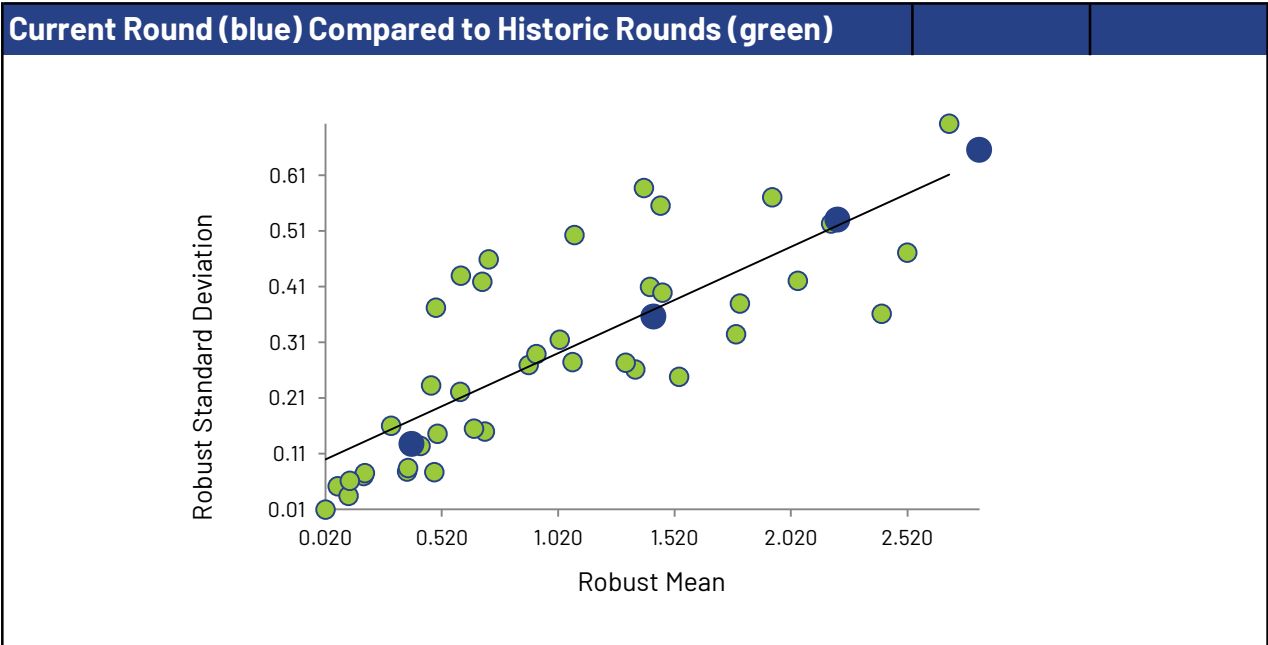
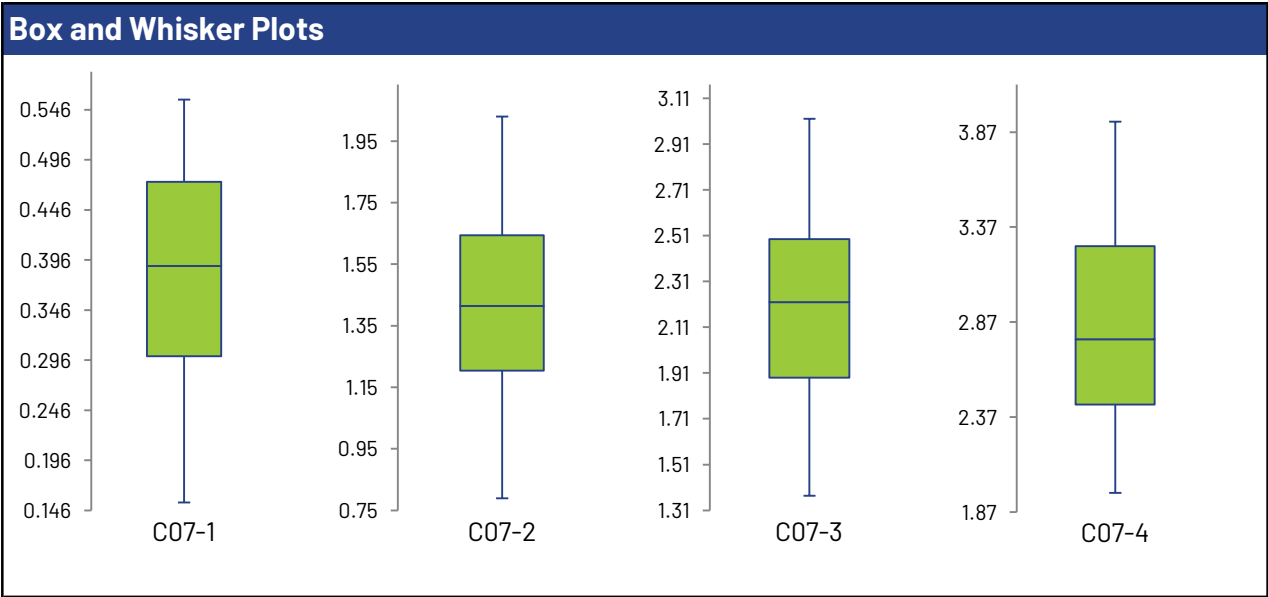
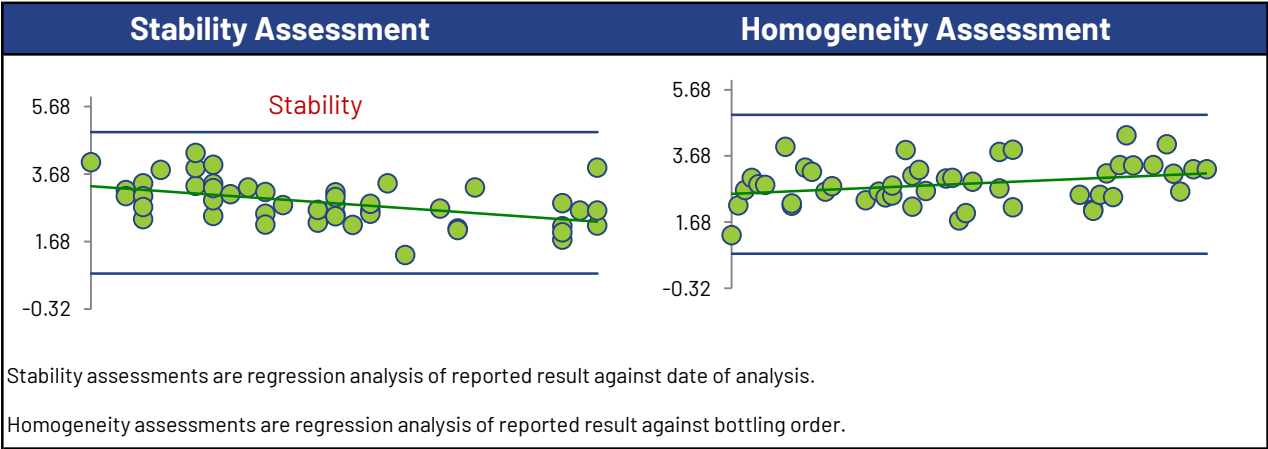


* Displayed failure rate does not account for the RDL modified z-Scores or inaccurately reported non-detects.

Anthracene



Anthracene



Benzo(a)anthracene

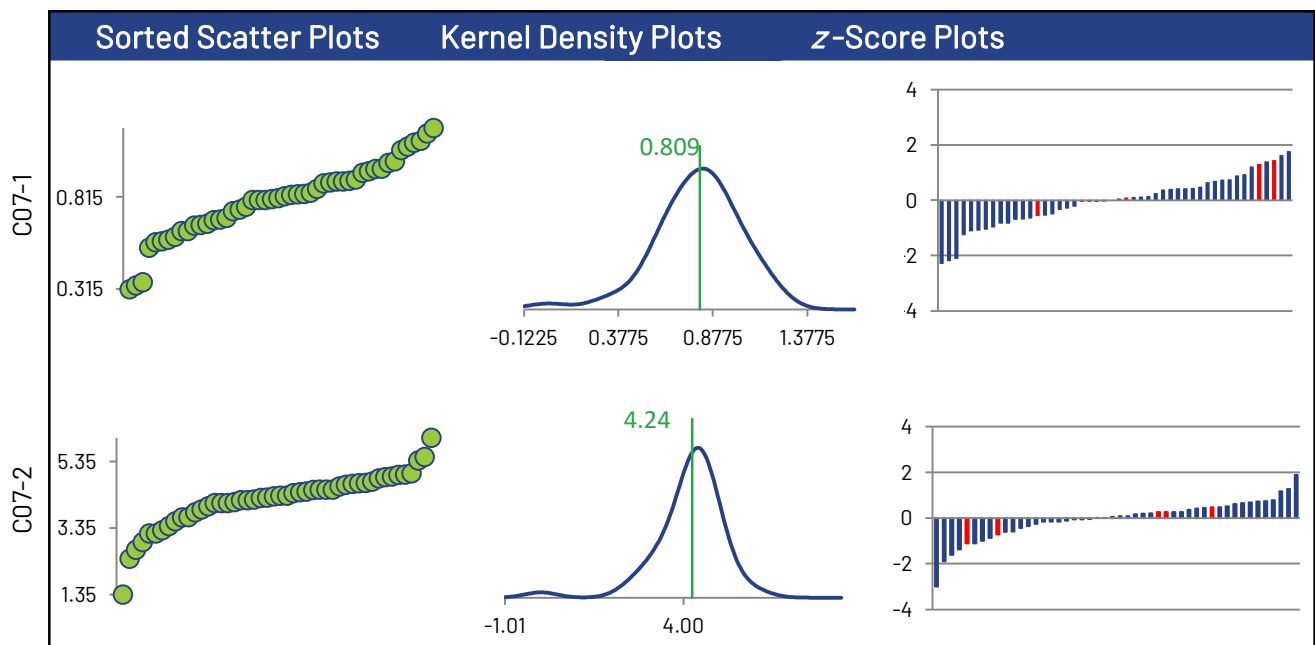
Summary Statistics

Statistic	C07-1	C07-2	C07-3	C07-4
No. of results used for summary statistics	48	48	48	48
Median µg/L	0.815	4.31	6.54	9.95
Robust Mean µg/L	0.809	4.24	6.41	9.61
Uncertainty of the Assigned Value µg/L	0.0359	0.122	0.189	0.341
Robust Standard Deviation µg/L	0.199	0.677	1.05	1.89
Regression Standard Deviation µg/L	0.217	0.965	1.44	2.13
Stability Flag			Stability	
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/L	0.217	0.965	1.48	2.13
Flagged Outliers	0	0	0	0
$ z > 3.0$	0	0	0	0
$2 < z < 3$	3	1	0	0
Failure Rate %*	0.0			

Methods Used

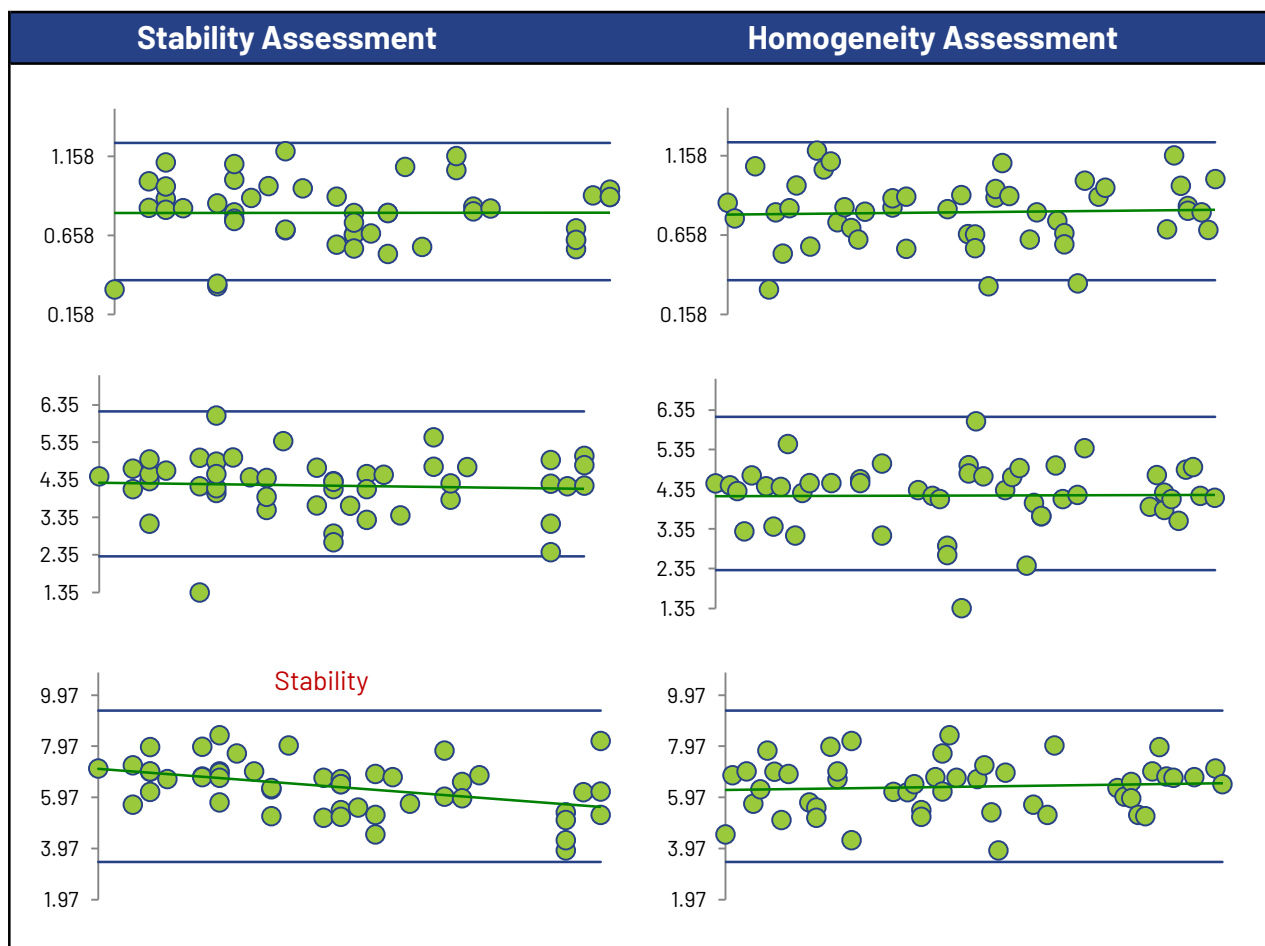
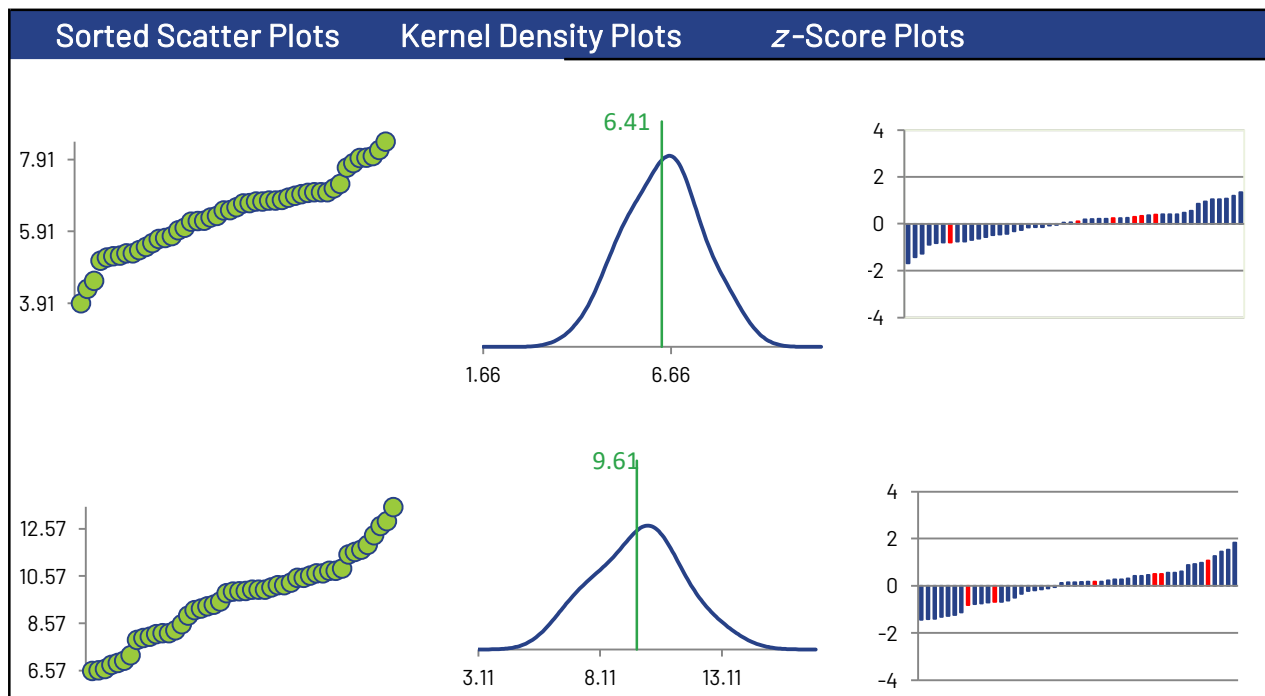
Method	C07-1	C07-2	C07-3	C07-4
GC/MS (Blue)	42	42	42	42
GC/MS/MS (Red)	6	6	6	6

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

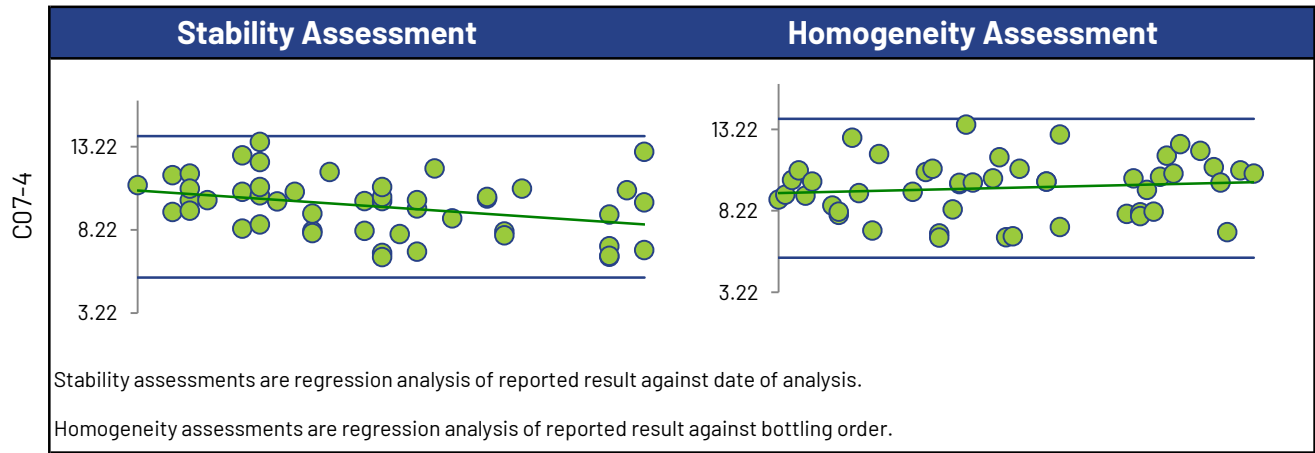


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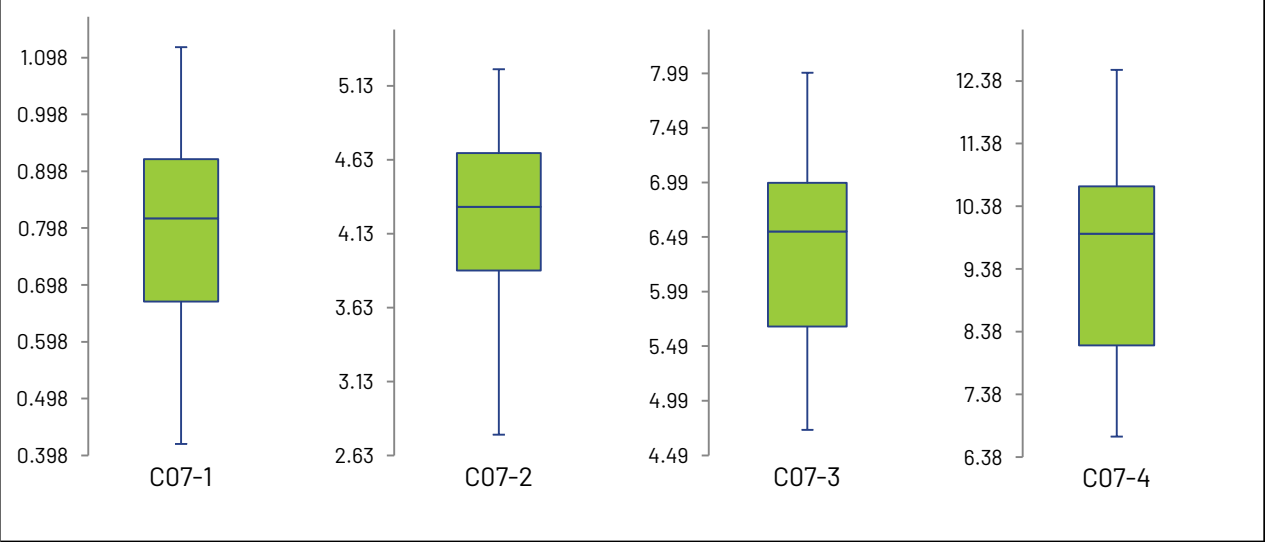
Benzo(a)anthracene



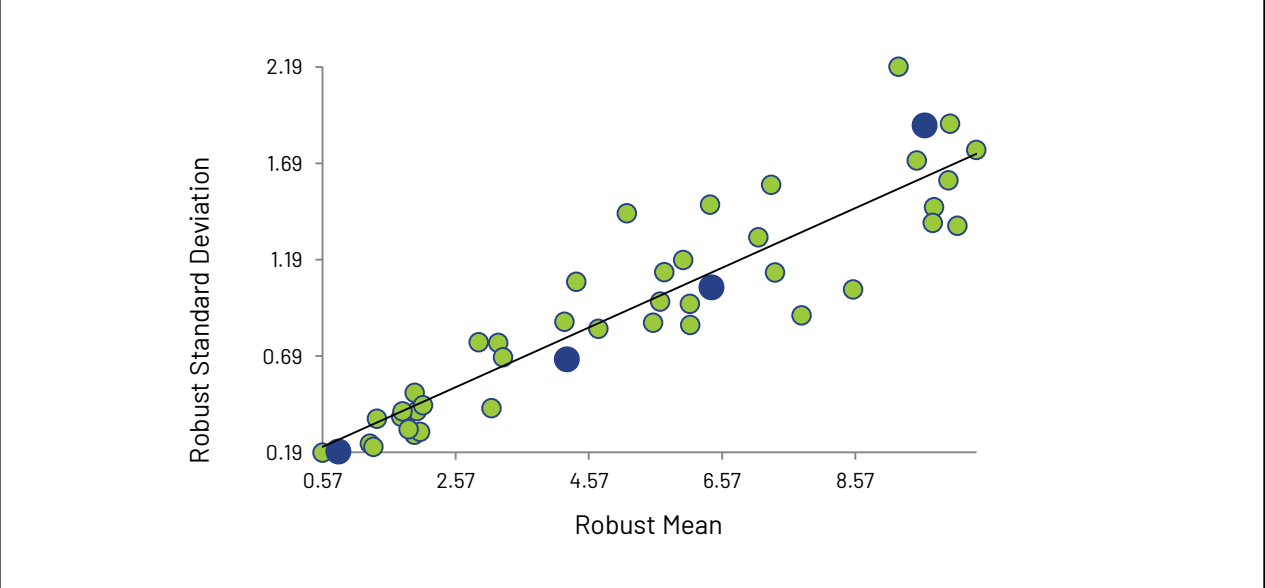
Benzo(a)anthracene



Box and Whisker Plots



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



Benzo(a)pyrene

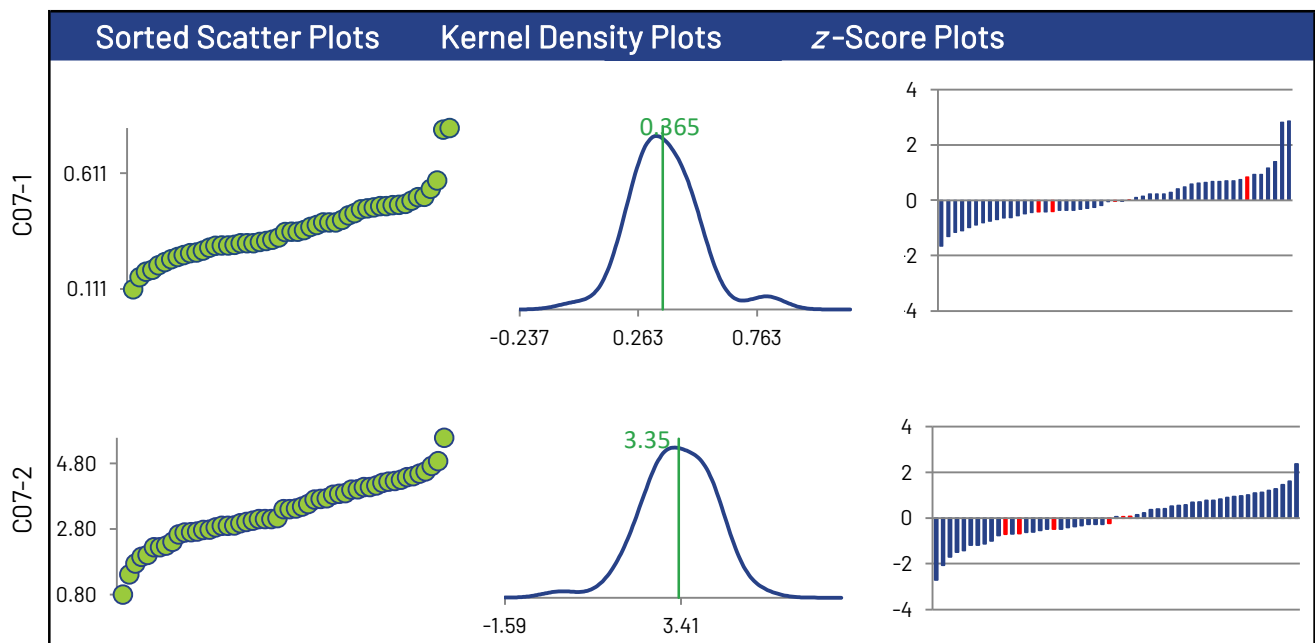
Summary Statistics

Statistic	C07-1	C07-2	C07-3	C07-4
No. of results used for summary statistics	51	53	53	53
Median µg/L	0.360	3.40	6.70	8.89
Robust Mean µg/L	0.365	3.35	6.81	8.91
Uncertainty of the Assigned Value µg/L	0.0212	0.162	0.312	0.355
Robust Standard Deviation µg/L	0.121	0.943	1.82	2.07
Regression Standard Deviation µg/L	0.154	0.852	1.66	2.15
Stability Flag			Stability	Stability
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/L	0.154	0.943	2.47	2.54
Flagged Outliers	0	0	0	0
z >3.0	0	0	0	0
2< z <3	2	3	0	2
Failure Rate %*	0.0			

Methods Used

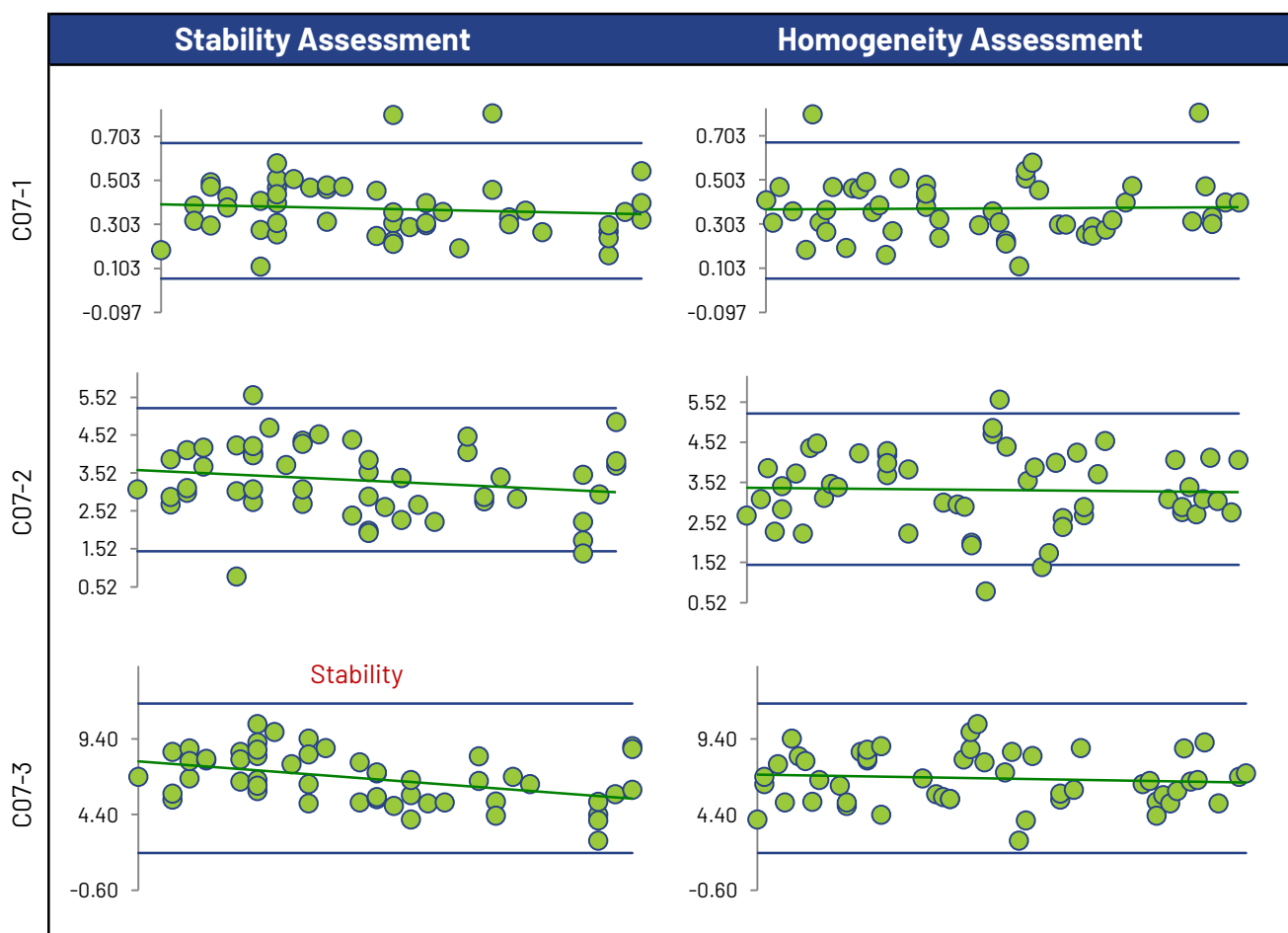
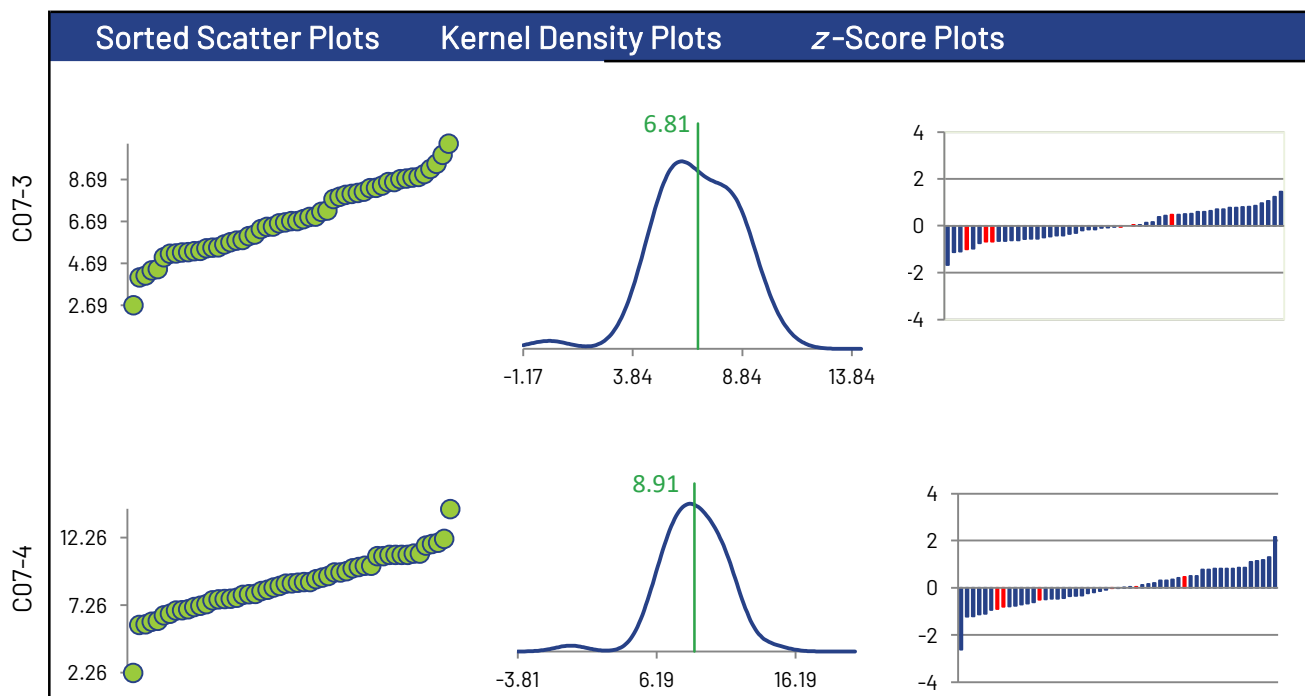
Method	C07-1	C07-2	C07-3	C07-4
GC/MS (Blue)	46	47	47	47
GC/MS/MS (Red)	5	6	6	6

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

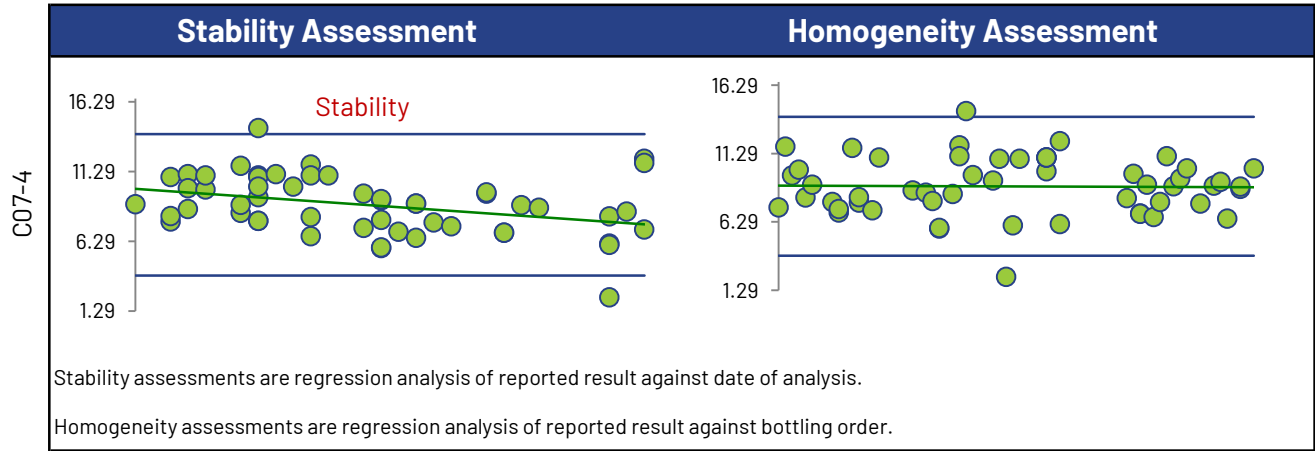


* Displayed failure rate does not account for the RDL modified z-Scores or inaccurately reported non-detects.

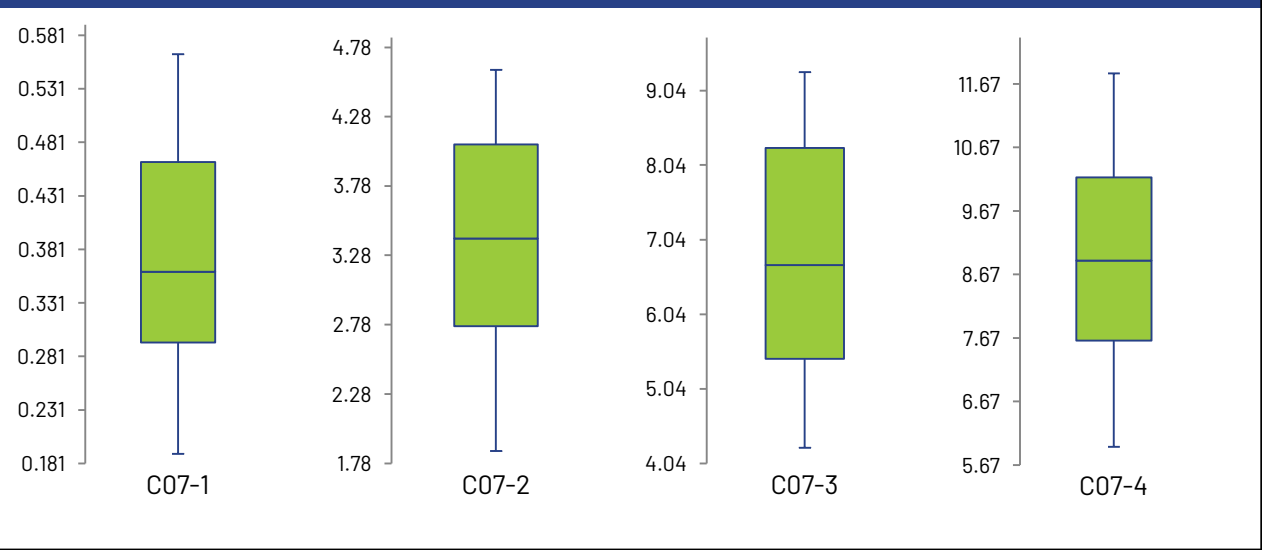
Benzo(a)pyrene



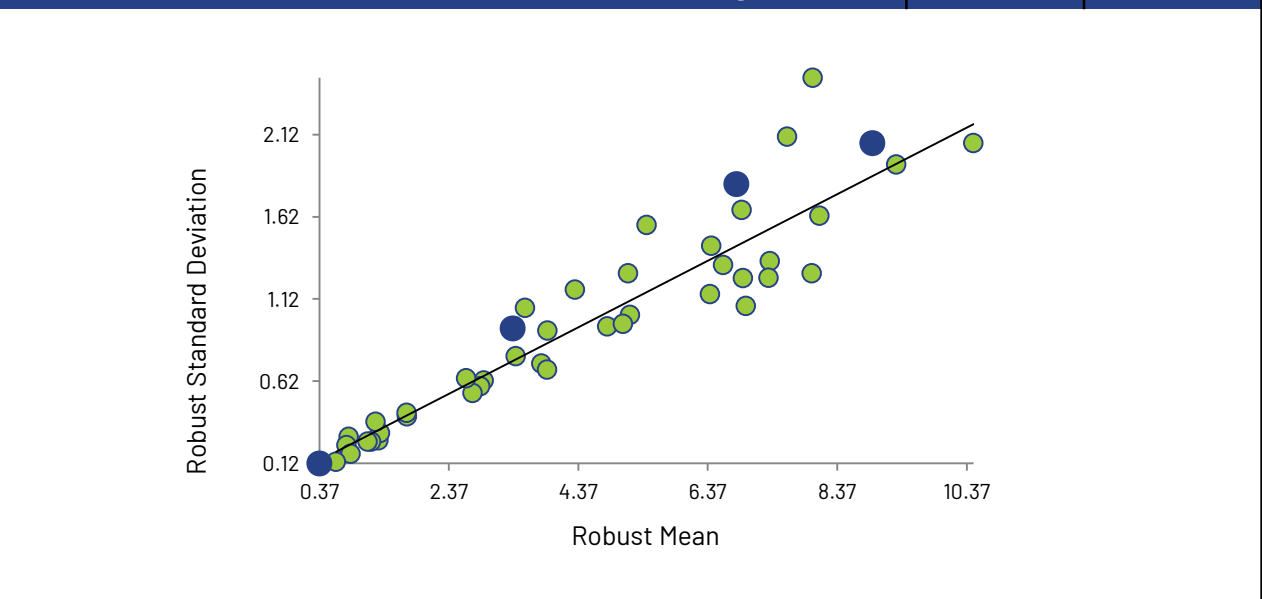
Benzo(a)pyrene



Box and Whisker Plots



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



Benzo(b)fluoranthene

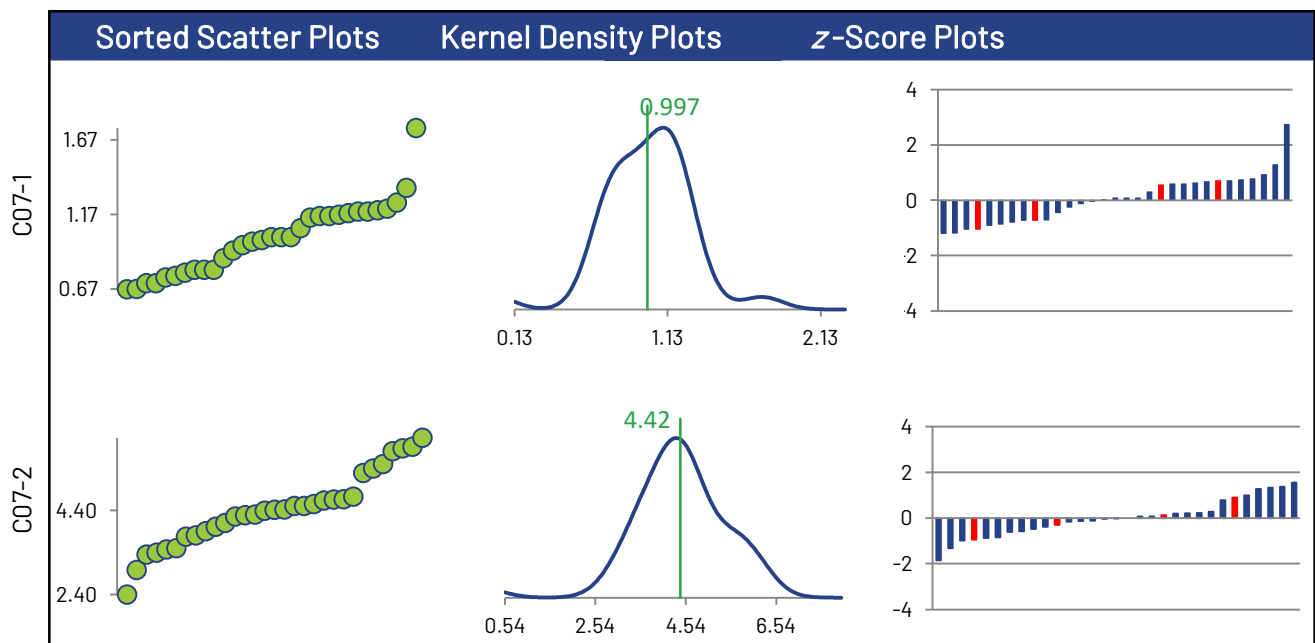
Summary Statistics

Statistic	C07-1	C07-2	C07-3	C07-4
No. of results used for summary statistics	31	31	31	31
Median µg/L	1.02	4.41	6.42	9.00
Robust Mean µg/L	0.997	4.42	6.38	8.77
Uncertainty of the Assigned Value µg/L	0.0530	0.208	0.348	0.438
Robust Standard Deviation µg/L	0.236	0.927	1.55	1.95
Regression Standard Deviation µg/L	0.275	1.09	1.55	2.12
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/L	0.275	1.09	1.55	2.12
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

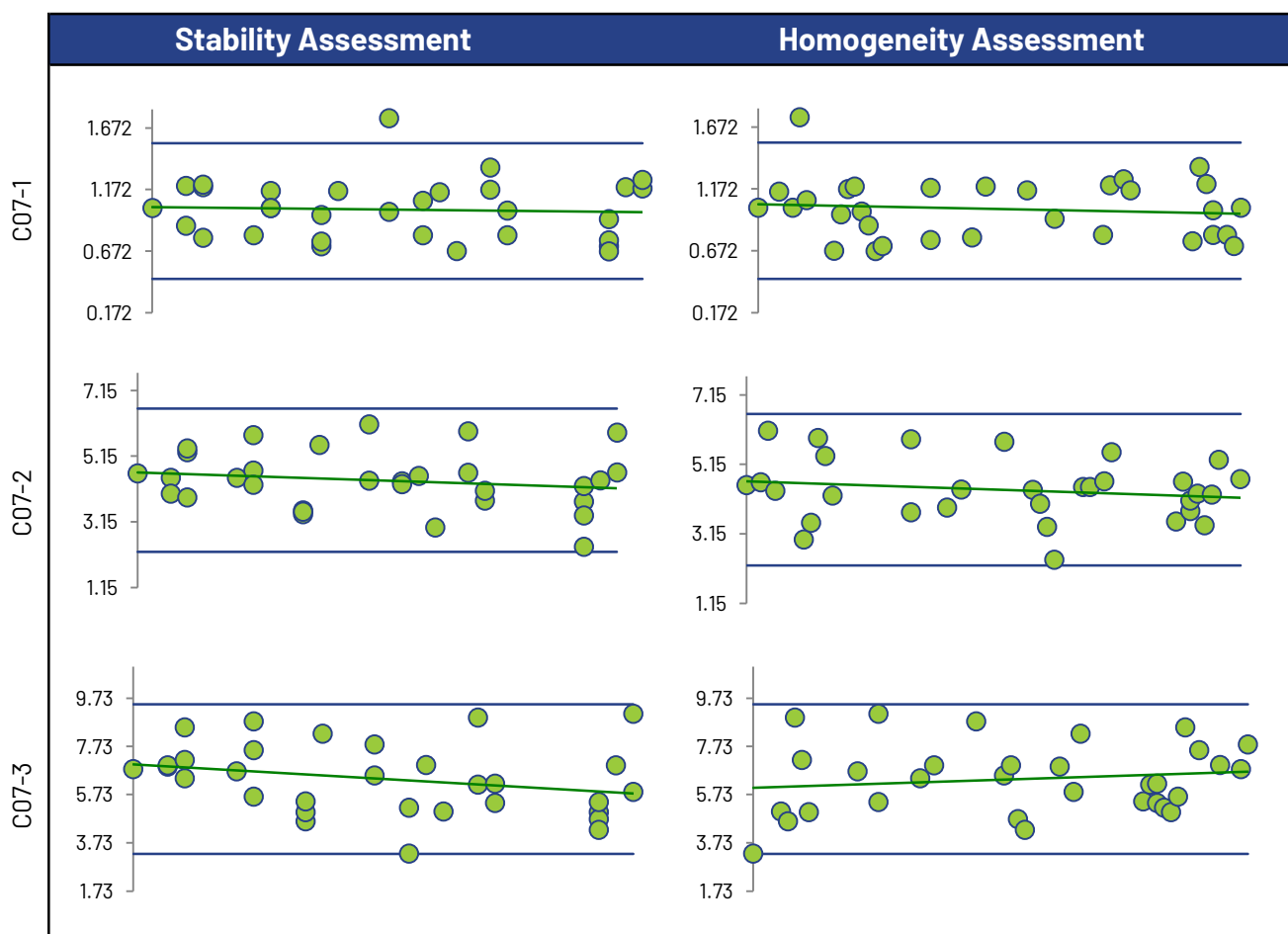
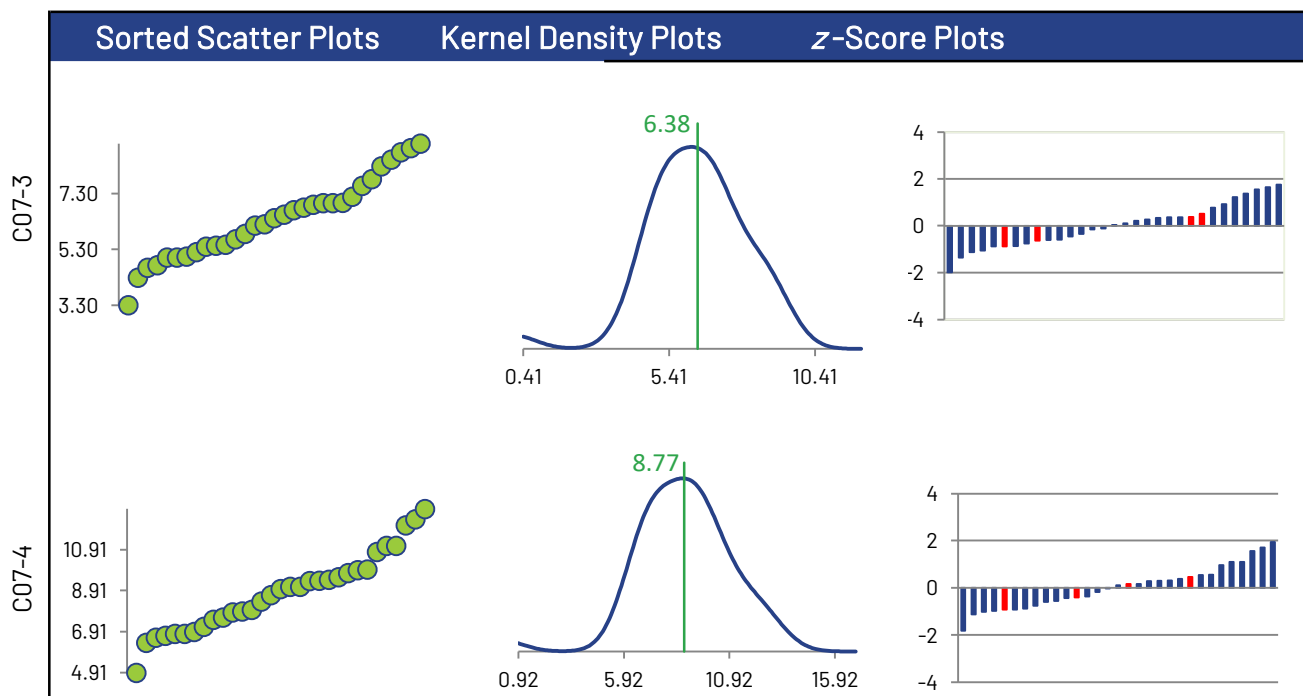
Method	C07-1	C07-2	C07-3	C07-4
GC/MS (Blue)	27	27	27	27
GC/MS/MS (Red)	4	4	4	4

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

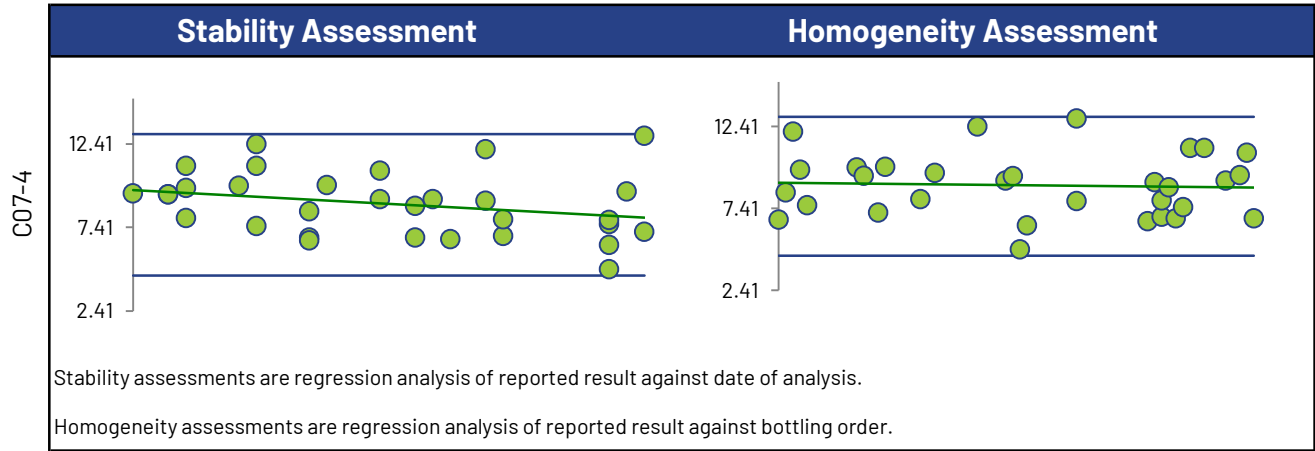


* Displayed failure rate does not account for the RDL modified z-Scores or inaccurately reported non-detects.

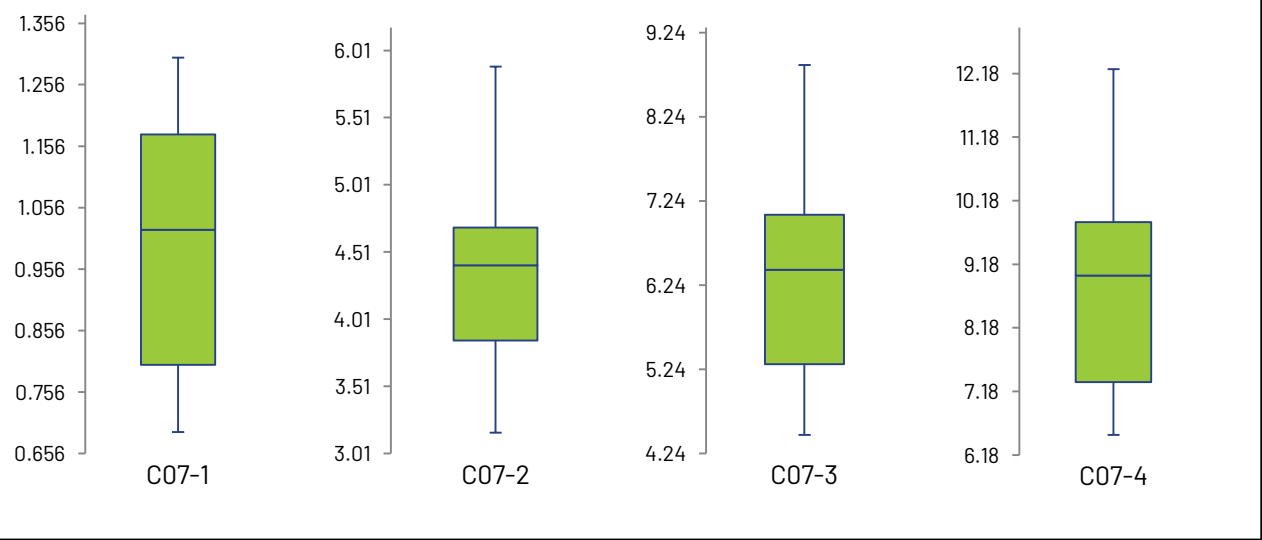
Benzo(b)fluoranthene



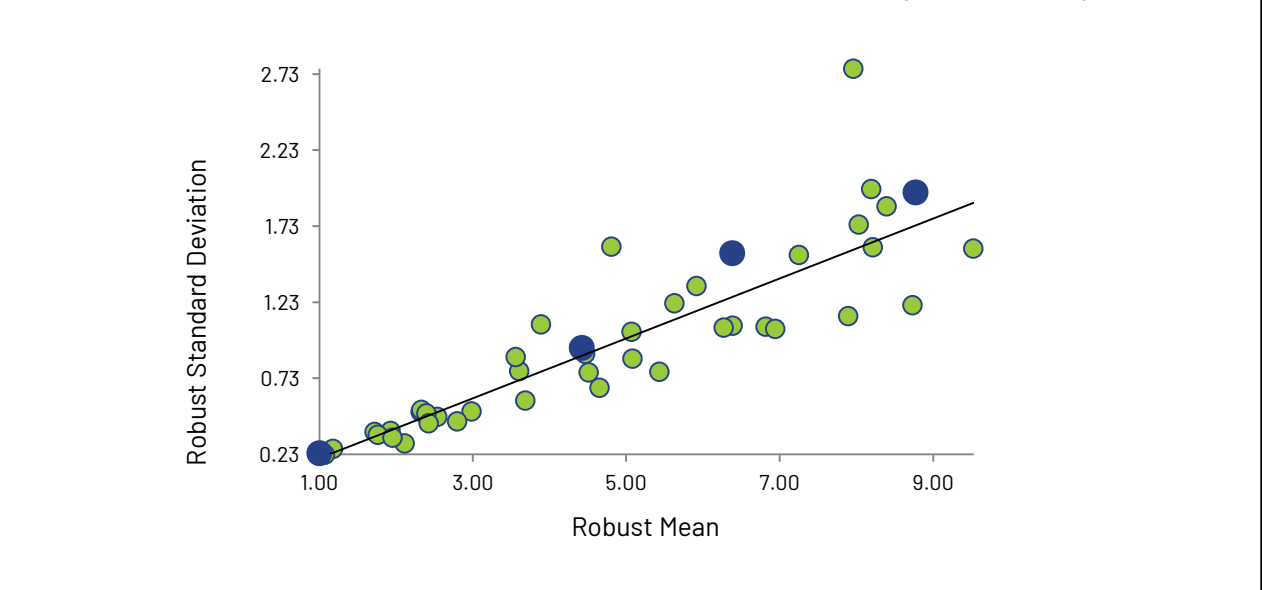
Benzo(b)fluoranthene



Box and Whisker Plots



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



Benzo(b,j)fluoranthene

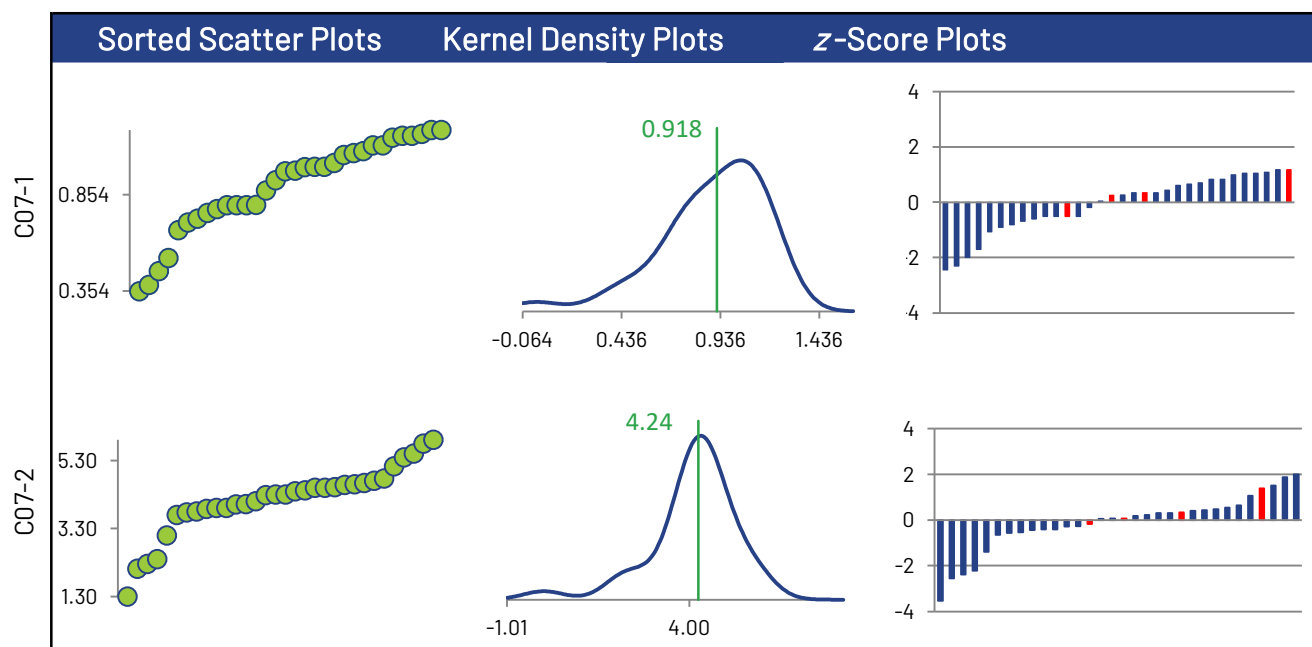
Summary Statistics

Statistic	C07-1	C07-2	C07-3	C07-4
No. of results used for summary statistics	32	32	32	32
Median µg/L	0.978	4.30	6.65	8.82
Robust Mean µg/L	0.918	4.24	6.40	8.54
Uncertainty of the Assigned Value µg/L	0.0510	0.184	0.278	0.345
Robust Standard Deviation µg/L	0.231	0.833	1.26	1.56
Regression Standard Deviation µg/L				
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/L	0.231	0.833	1.26	1.56
Flagged Outliers	0	0	0	0
z >3.0	0	1	0	0
2< z <3	2	3	2	4
Failure Rate %*	3.1			

Methods Used

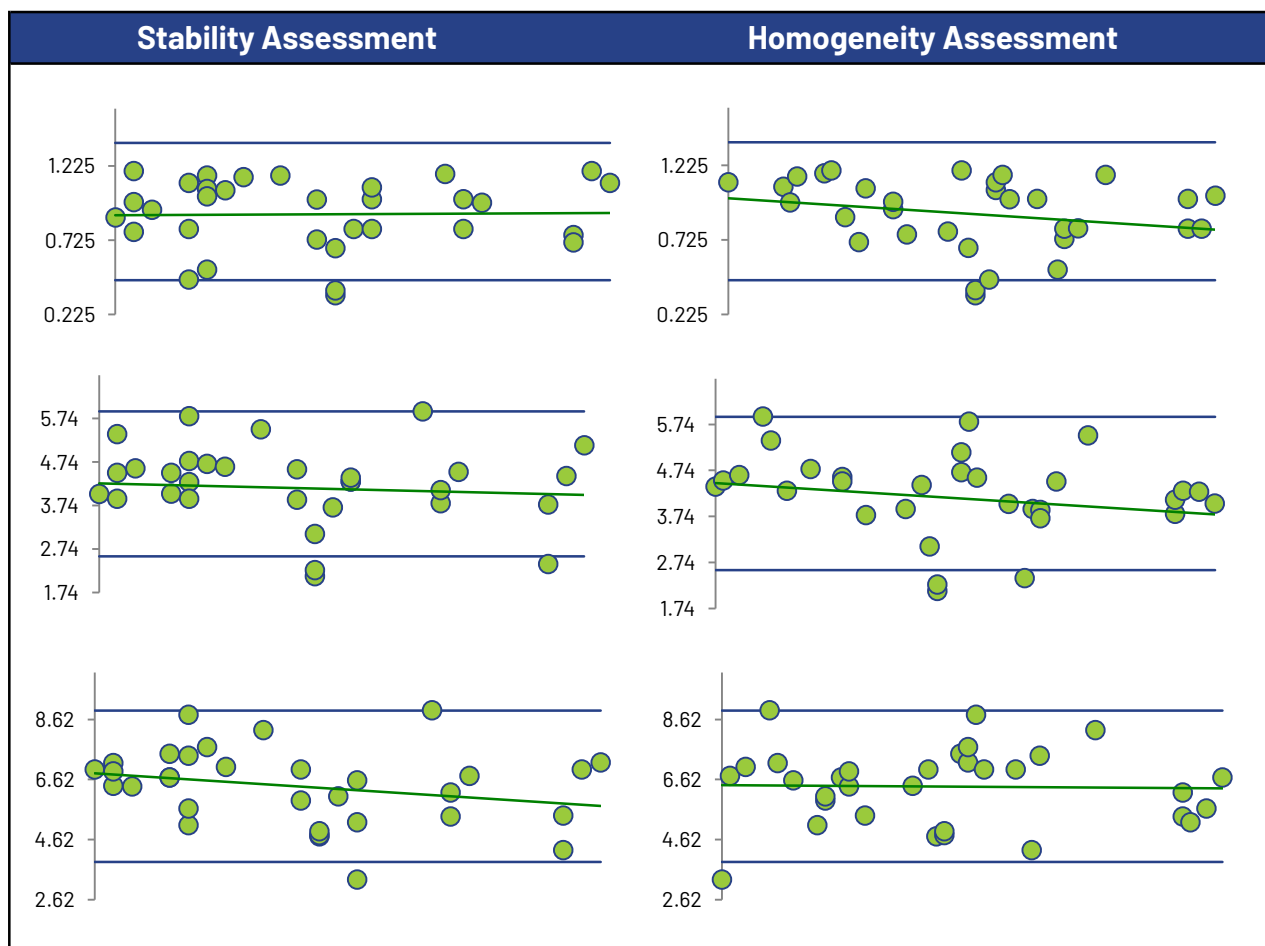
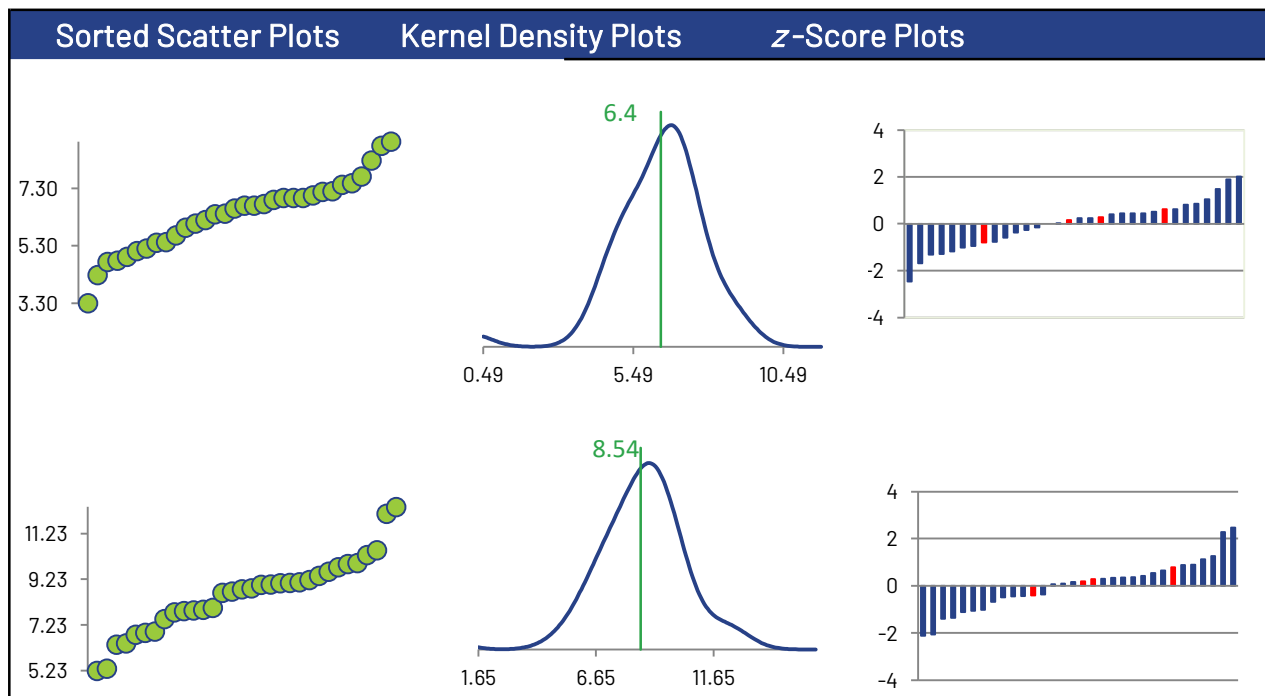
Method	C07-1	C07-2	C07-3	C07-4
GC/MS (Blue)	28	28	28	28
GC/MS/MS (Red)	4	4	4	4

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

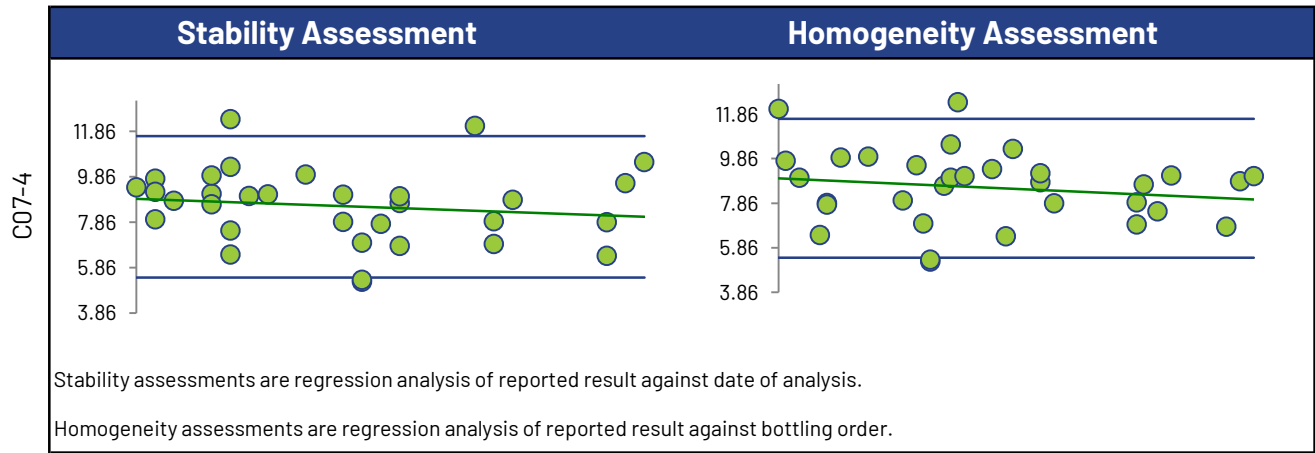


* Displayed failure rate does not account for the RDL modified z-Scores or inaccurately reported non-detects.

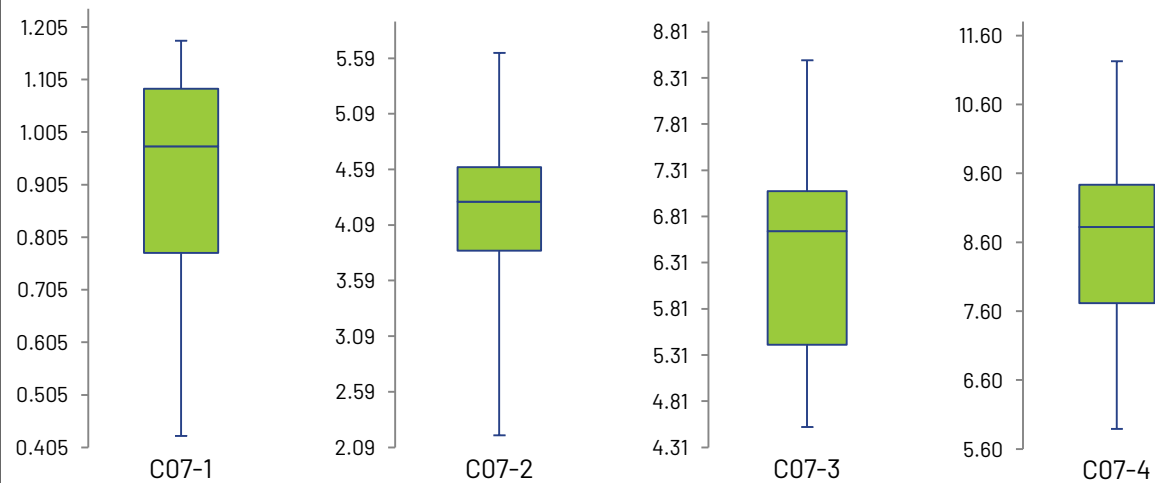
Benzo(b,j)fluoranthene



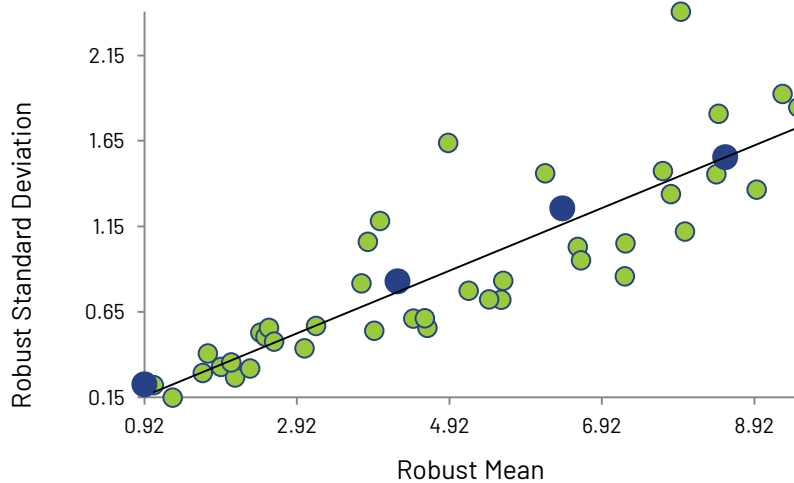
Benzo(b,j)fluoranthene



Box and Whisker Plots



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



Benzo(g,h,i)perylene

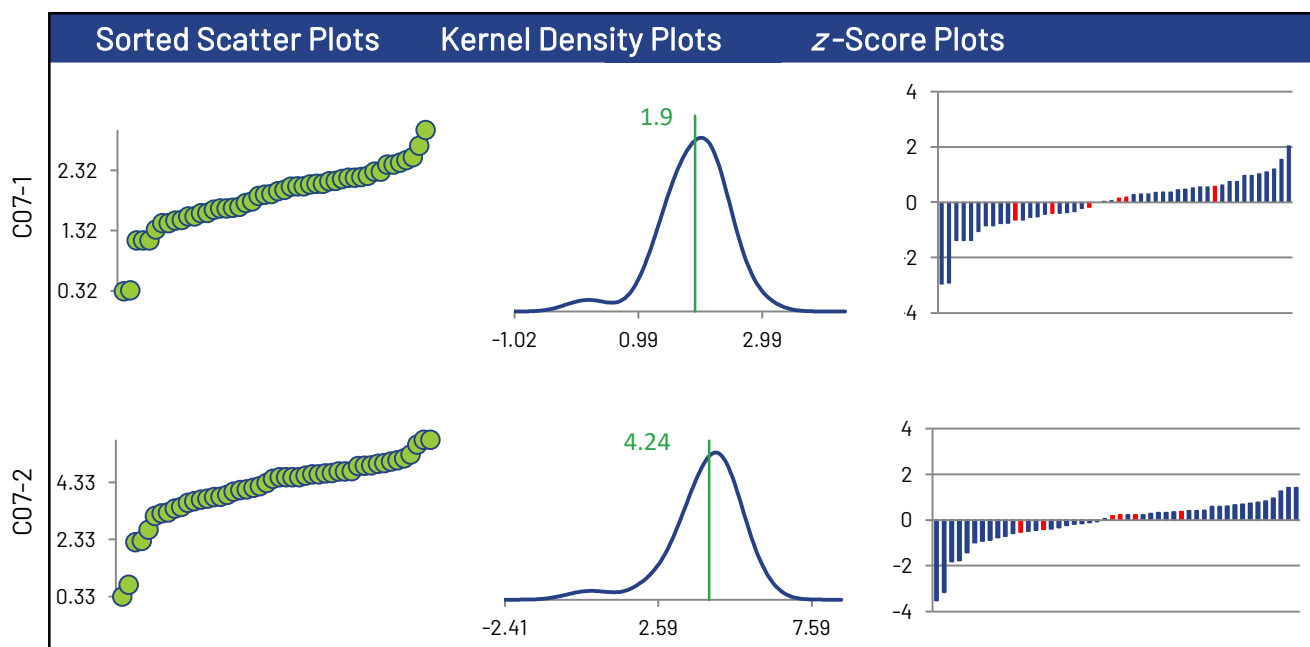
Summary Statistics

Statistic	C07-1	C07-2	C07-3	C07-4
No. of results used for summary statistics	48	48	47	47
Median µg/L	1.96	4.47	6.22	9.39
Robust Mean µg/L	1.90	4.24	6.01	9.17
Uncertainty of the Assigned Value µg/L	0.0828	0.155	0.232	0.325
Robust Standard Deviation µg/L	0.459	0.859	1.27	1.78
Regression Standard Deviation µg/L	0.535	1.11	1.55	2.33
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/L	0.535	1.11	1.55	2.33
Flagged Outliers	0	0	1	1
z >3.0	0	2	0	0
2< z <3	3	0	0	1
Failure Rate %*	2.1			

Methods Used

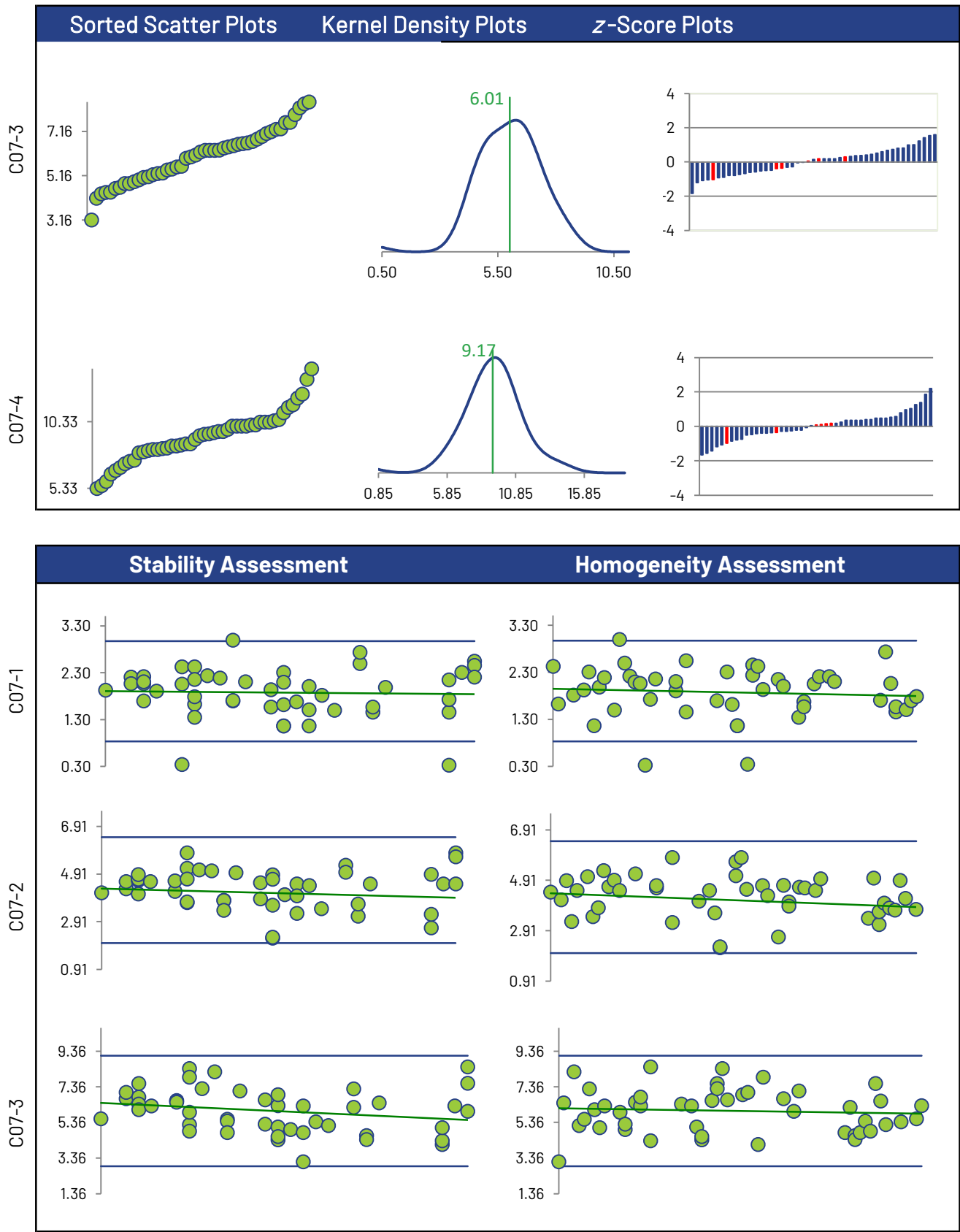
Method	C07-1	C07-2	C07-3	C07-4
GC/MS (Blue)	42	42	41	41
GC/MS/MS (Red)	6	6	6	6

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

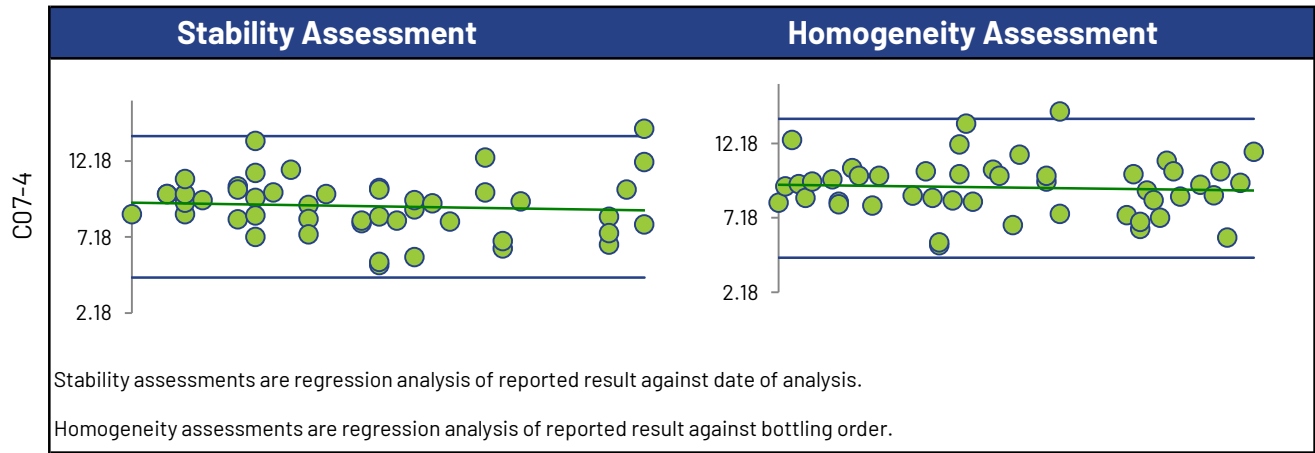


* Displayed failure rate does not account for the RDL modified z-Scores or inaccurately reported non-detects.

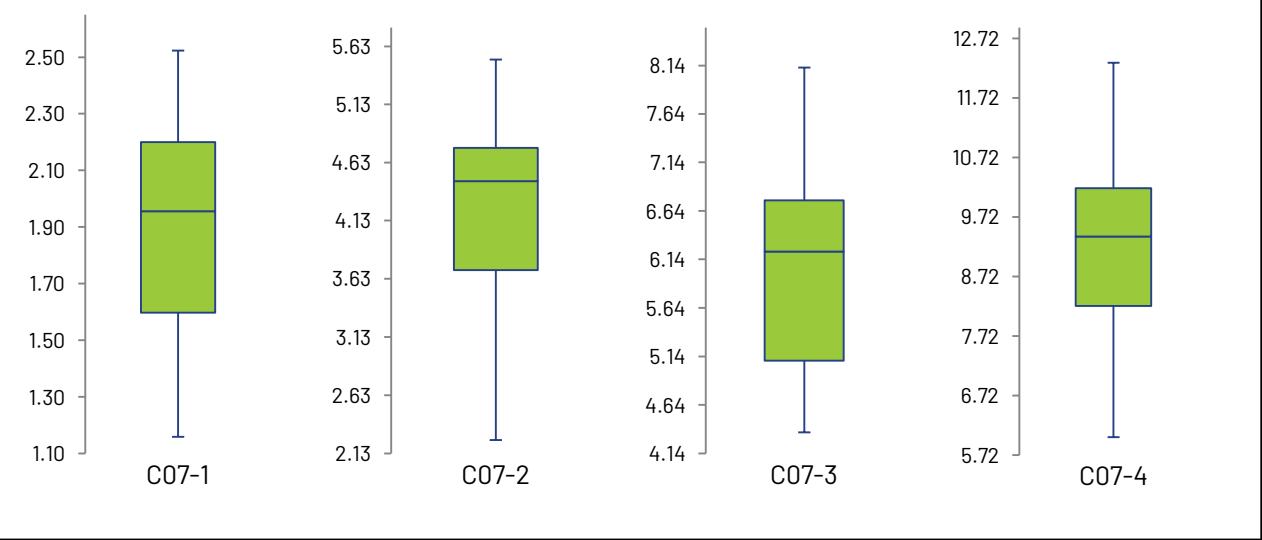
Benzo(g,h,i)perylene



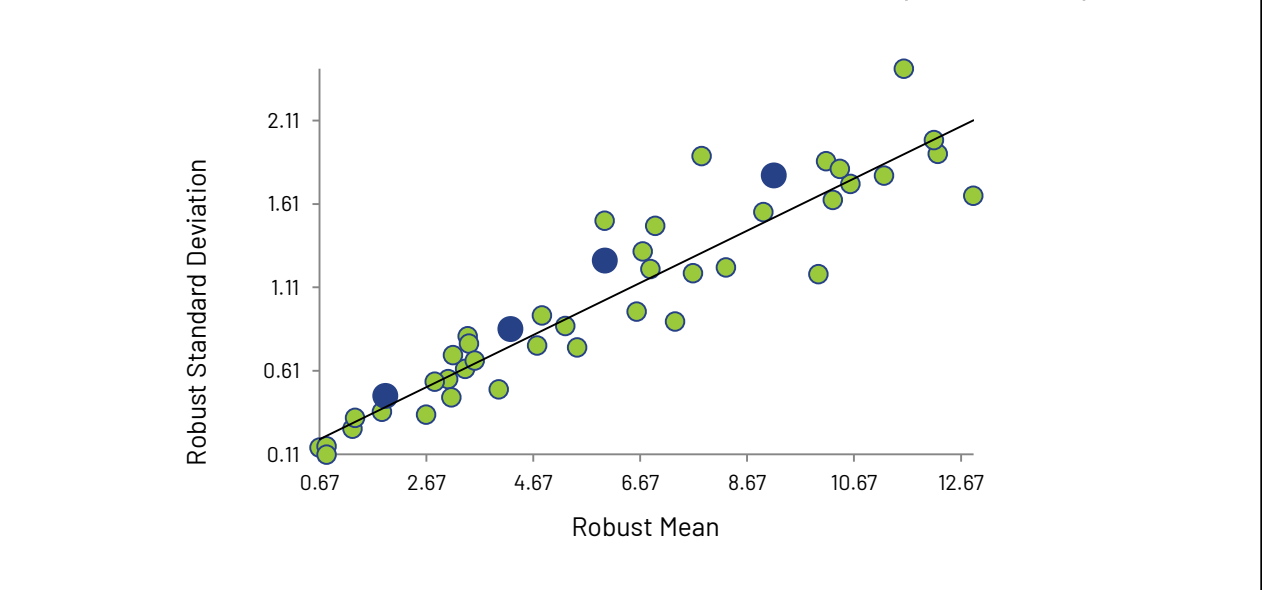
Benzo(g,h,i)perylene



Box and Whisker Plots



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



Benzo(k)fluoranthene

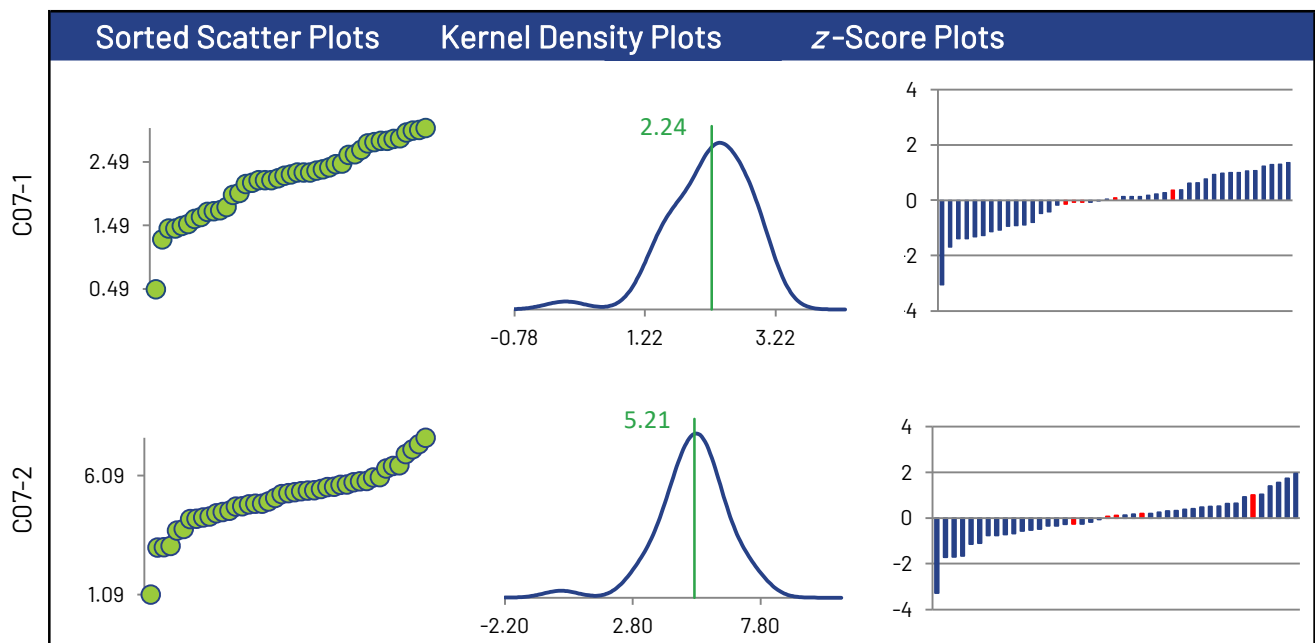
Summary Statistics

Statistic	C07-1	C07-2	C07-3	C07-4
No. of results used for summary statistics	43	43	43	43
Median µg/L	2.29	5.35	7.70	9.33
Robust Mean µg/L	2.24	5.21	8.12	9.37
Uncertainty of the Assigned Value µg/L	0.109	0.208	0.297	0.326
Robust Standard Deviation µg/L	0.574	1.09	1.56	1.71
Regression Standard Deviation µg/L	0.555	1.26	1.96	2.26
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/L	0.574	1.26	1.96	2.26
Flagged Outliers	0	0	0	0
$ z > 3.0$	1	1	0	0
$2 < z < 3$	0	0	2	2
Failure Rate %*	0.0			

Methods Used

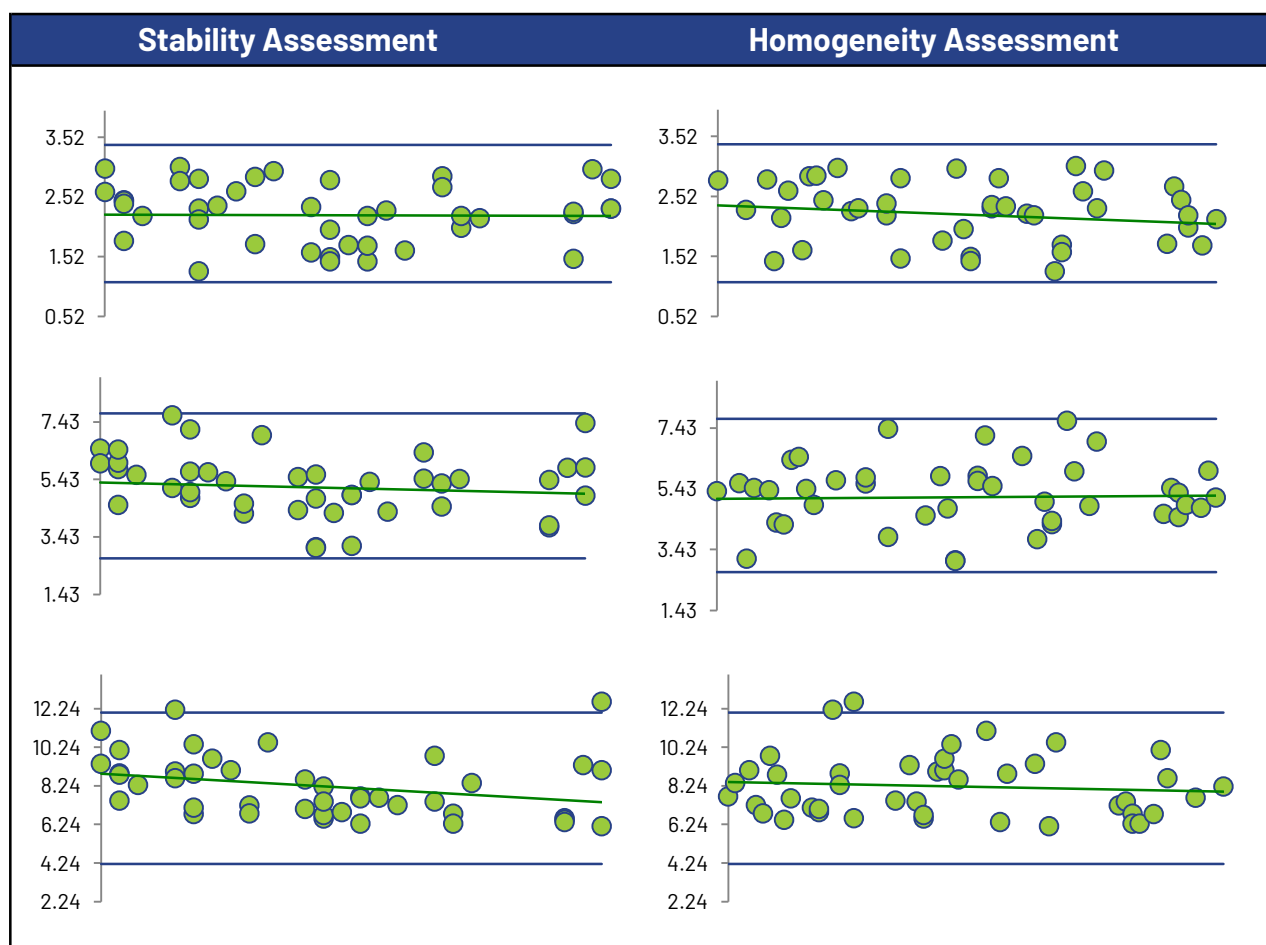
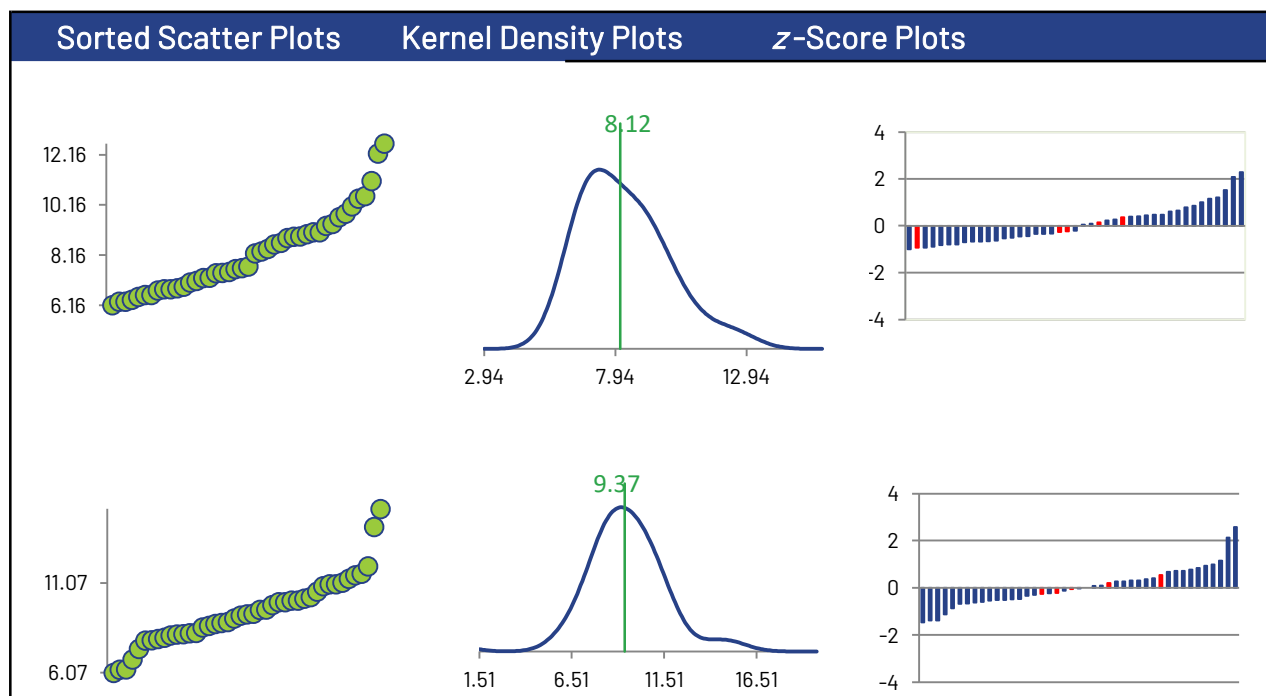
Method	C07-1	C07-2	C07-3	C07-4
GC/MS (Blue)	38	38	38	38
GC/MS/MS (Red)	5	5	5	5

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

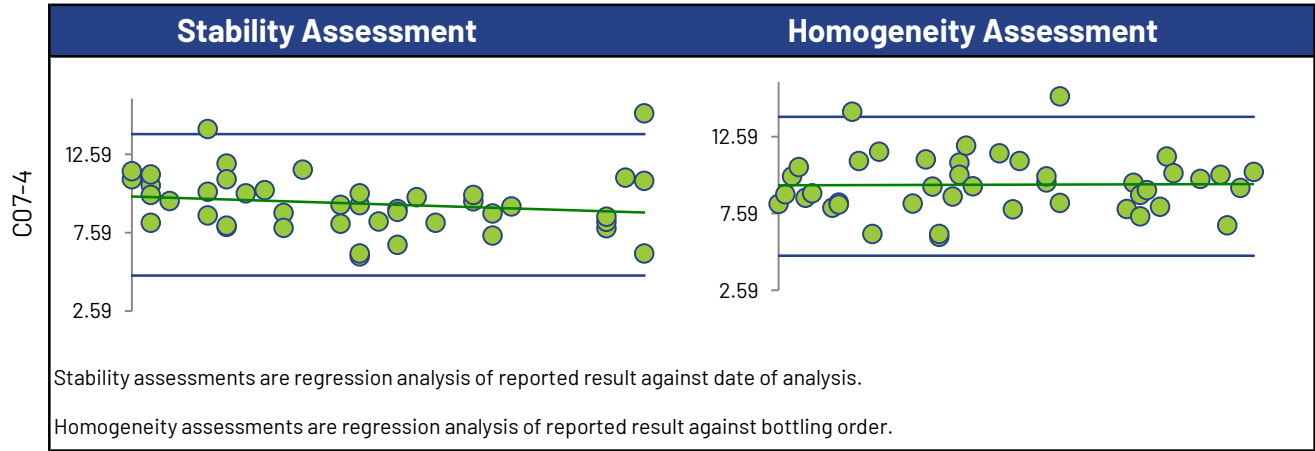


* Displayed failure rate does not account for the RDL modified z-Scores or inaccurately reported non-detects.

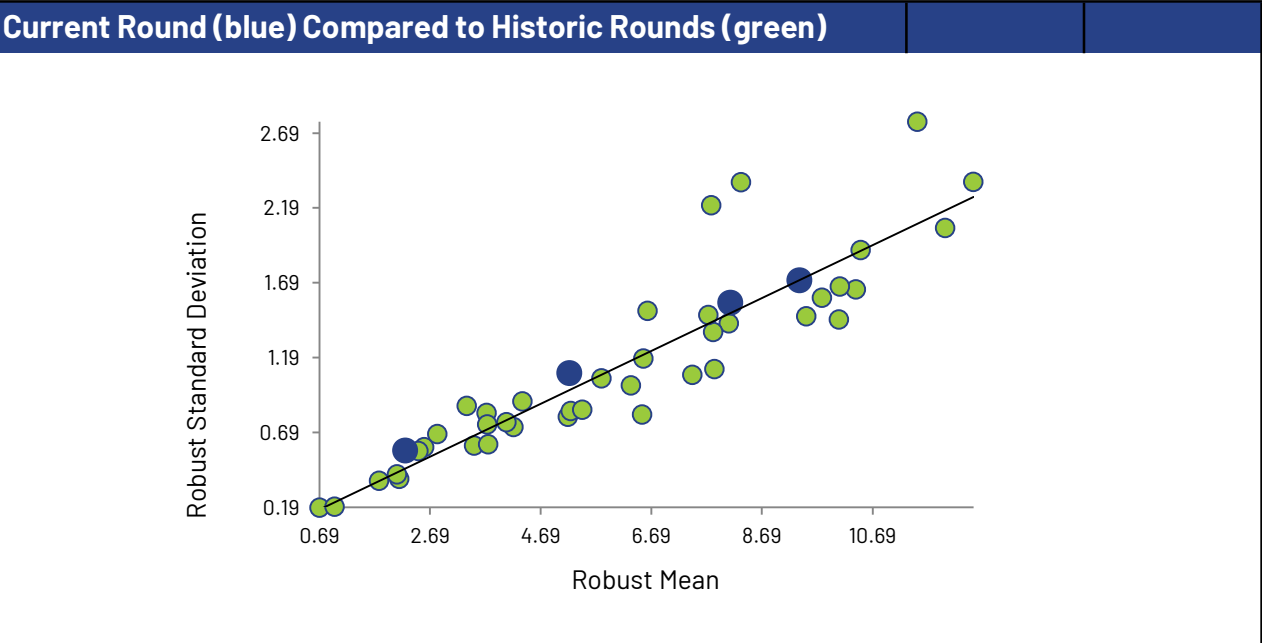
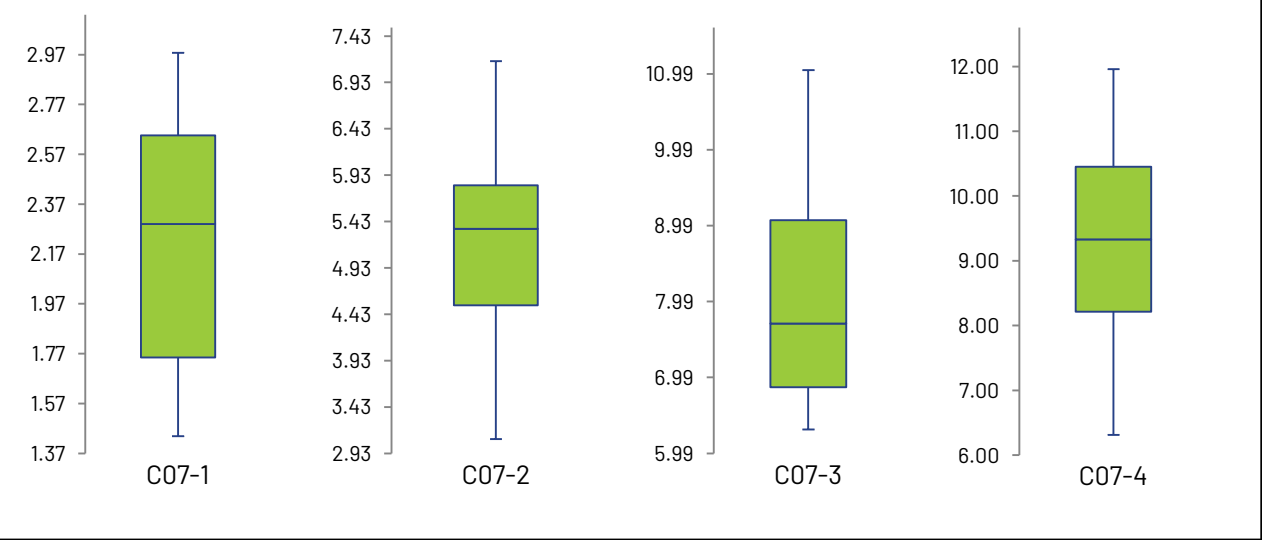
Benzo(k)fluoranthene



Benzo(k)fluoranthene



Box and Whisker Plots



Chrysene

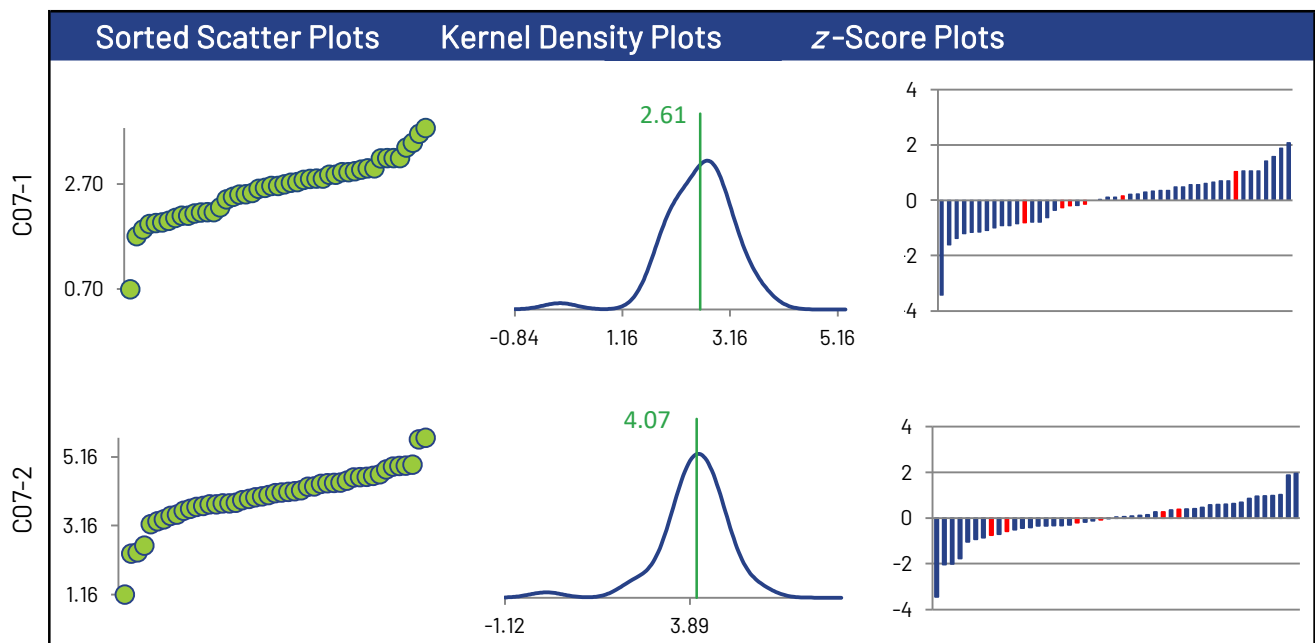
Summary Statistics

Statistic	C07-1	C07-2	C07-3	C07-4
No. of results used for summary statistics	47	47	47	47
Median µg/L	2.67	4.10	7.87	8.47
Robust Mean µg/L	2.61	4.07	7.78	8.35
Uncertainty of the Assigned Value µg/L	0.0988	0.116	0.275	0.286
Robust Standard Deviation µg/L	0.542	0.638	1.51	1.57
Regression Standard Deviation µg/L	0.558	0.846	1.58	1.69
Stability Flag			Stability	Stability
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/L	0.558	0.846	2.33	2.19
Flagged Outliers	0	0	0	0
$ z > 3.0$	1	1	0	0
$2 < z < 3$	1	1	0	0
Failure Rate %*	0.0			

Methods Used

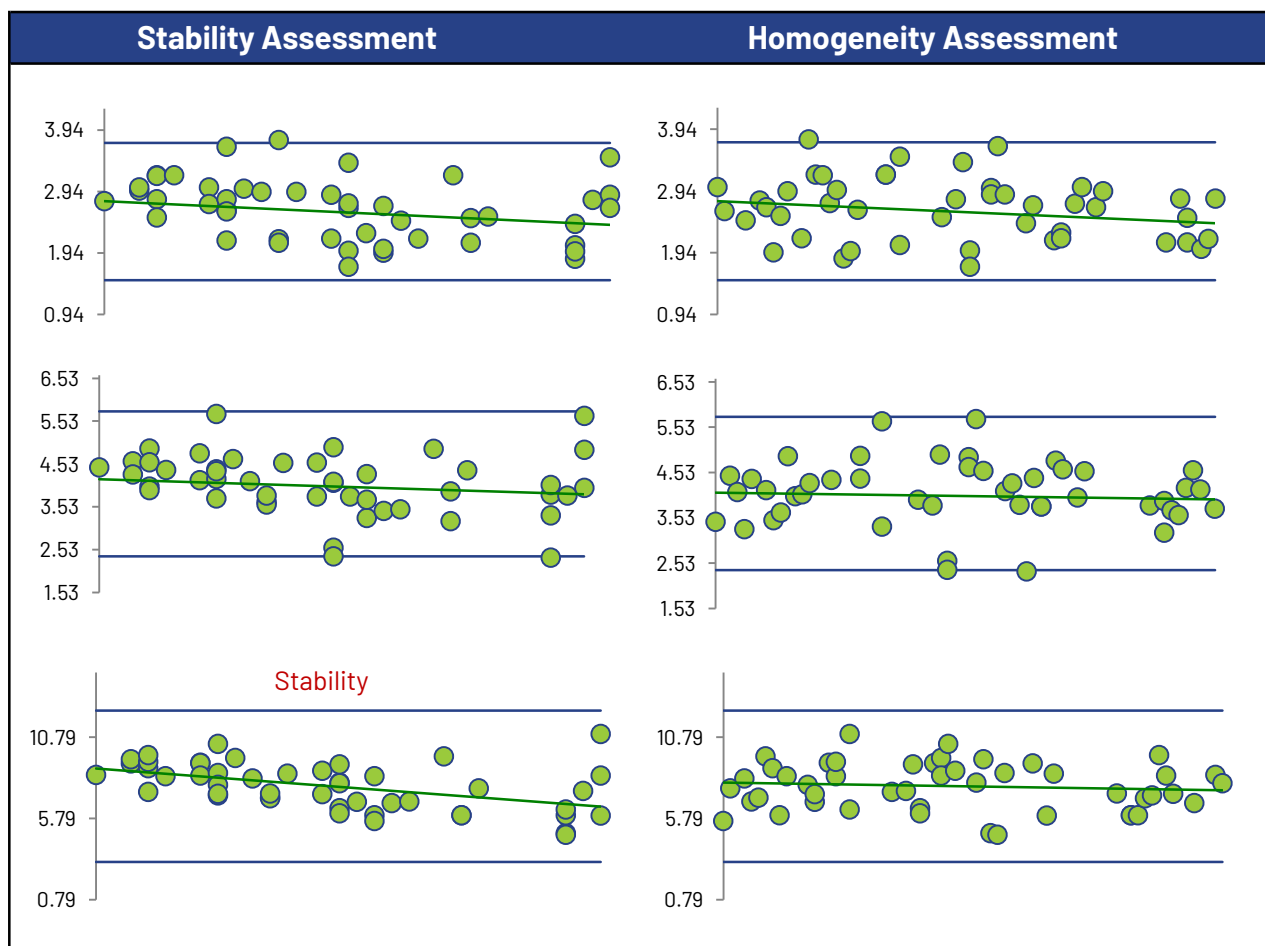
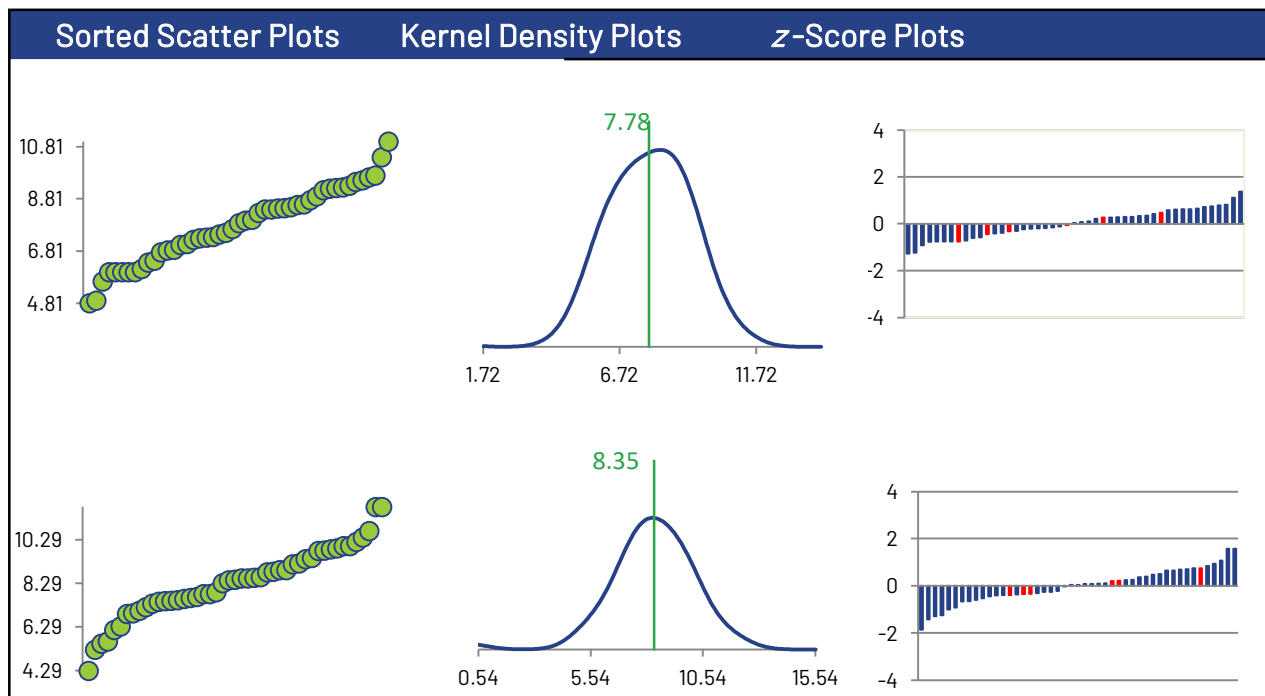
Method	C07-1	C07-2	C07-3	C07-4
GC/MS (Blue)	41	41	41	41
GC/MS/MS (Red)	6	6	6	6

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

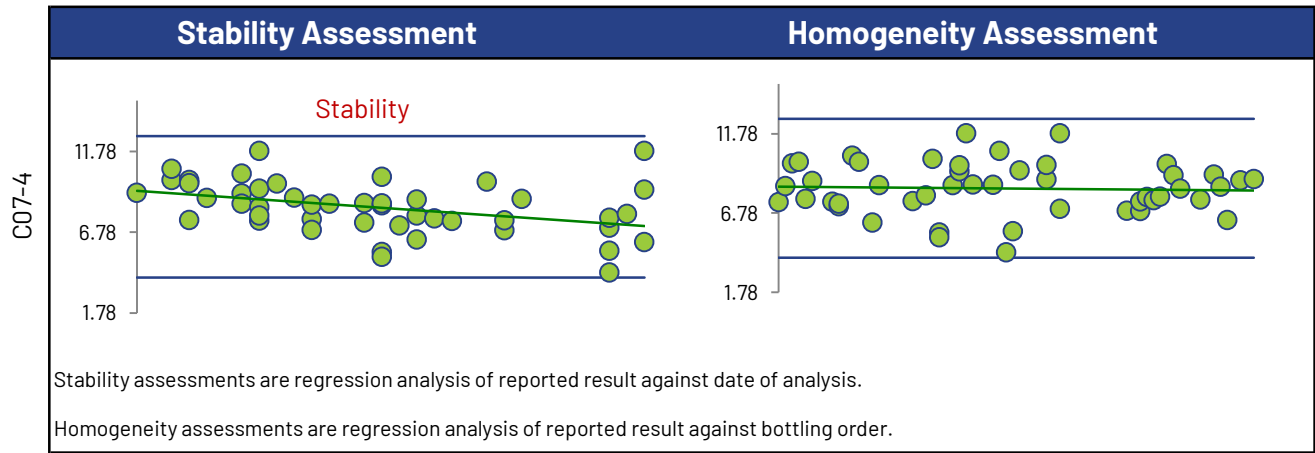


* Displayed failure rate does not account for the RDL modified z-Scores or inaccurately reported non-detects.

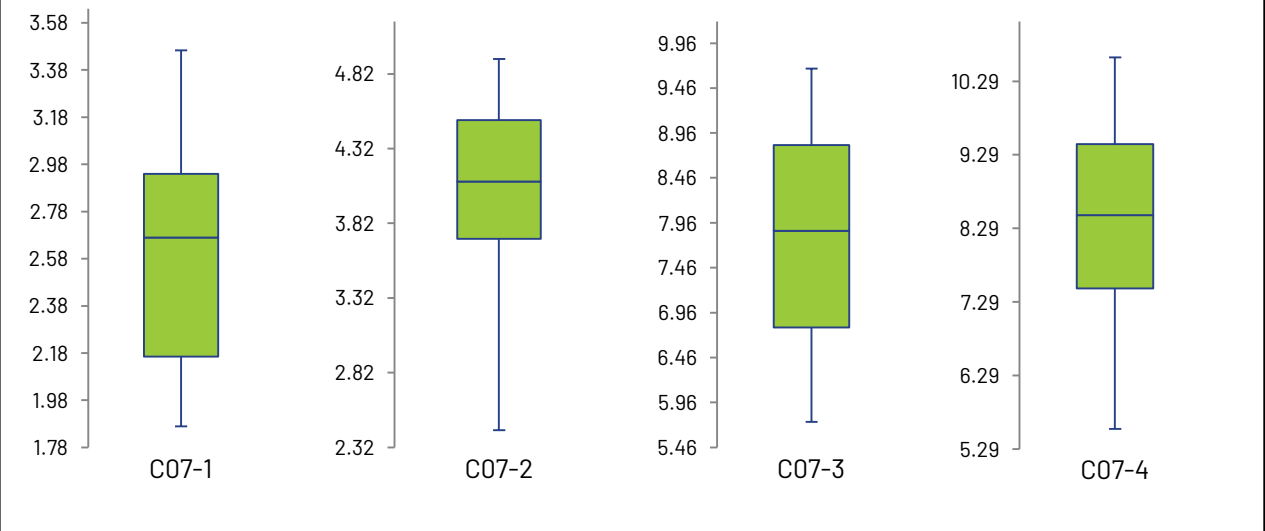
Chrysene



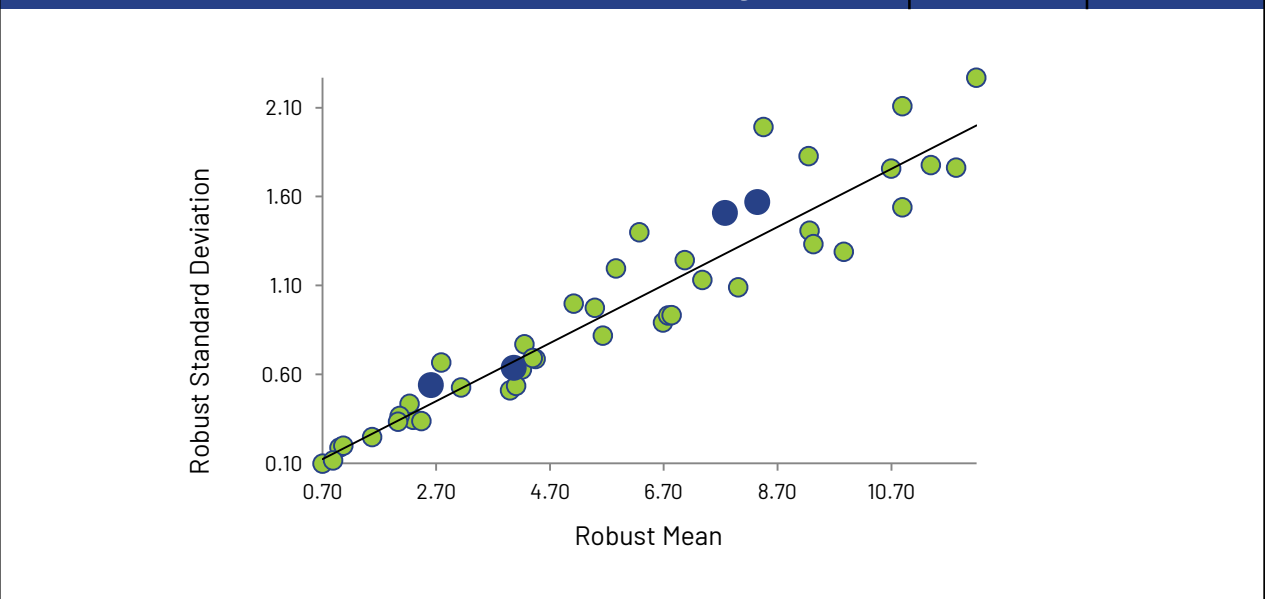
Chrysene



Box and Whisker Plots



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



Dibenzo(a,h)anthracene

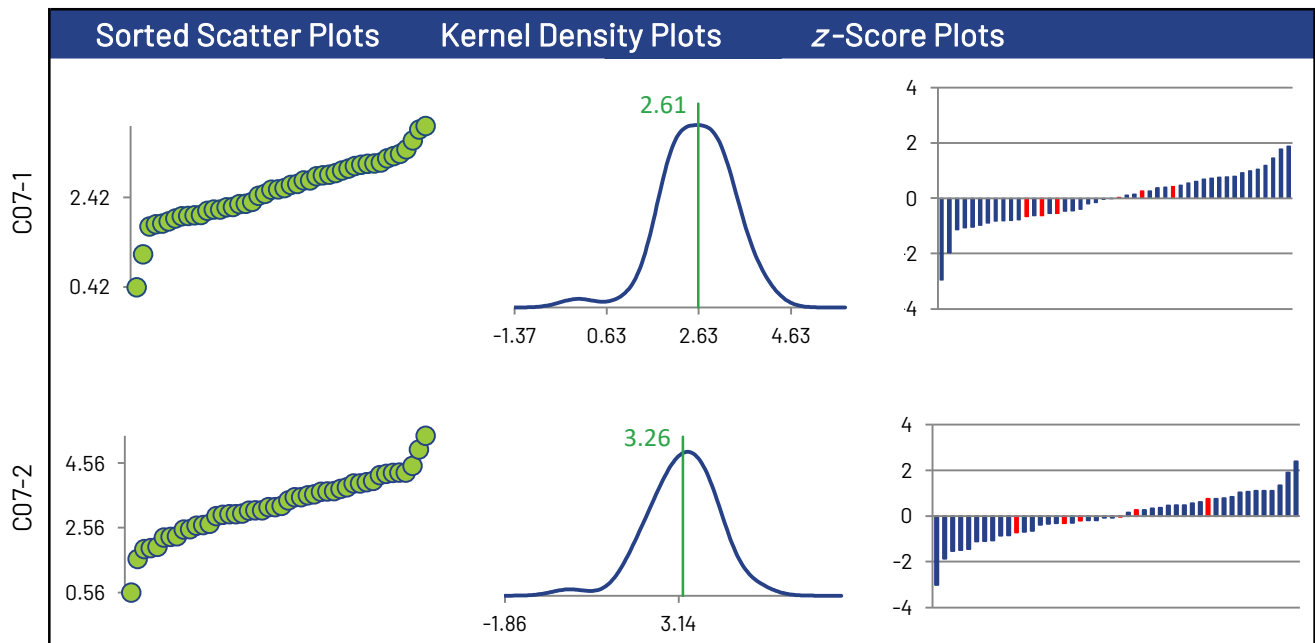
Summary Statistics

Statistic	C07-1	C07-2	C07-3	C07-4
No. of results used for summary statistics	46	46	46	46
Median µg/L	2.62	3.22	7.84	10.3
Robust Mean µg/L	2.61	3.26	7.61	10.2
Uncertainty of the Assigned Value µg/L	0.122	0.163	0.308	0.409
Robust Standard Deviation µg/L	0.662	0.887	1.67	2.22
Regression Standard Deviation µg/L	0.741	0.897	1.93	2.55
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/L	0.741	0.897	1.93	2.55
Flagged Outliers	1	1	1	1
$ z > 3.0$	0	1	0	0
$2 < z < 3$	1	1	2	1
Failure Rate %*	2.1			

Methods Used

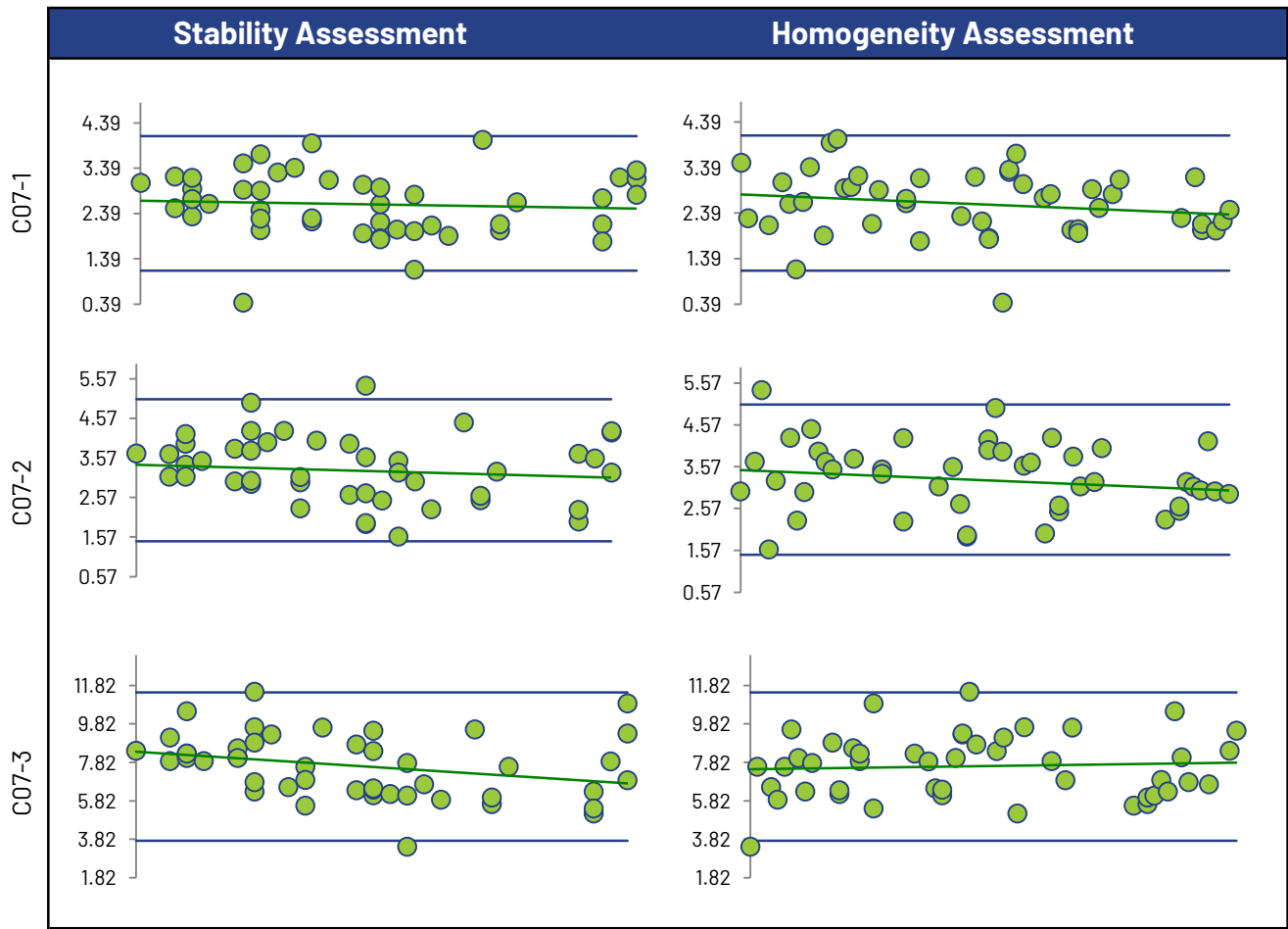
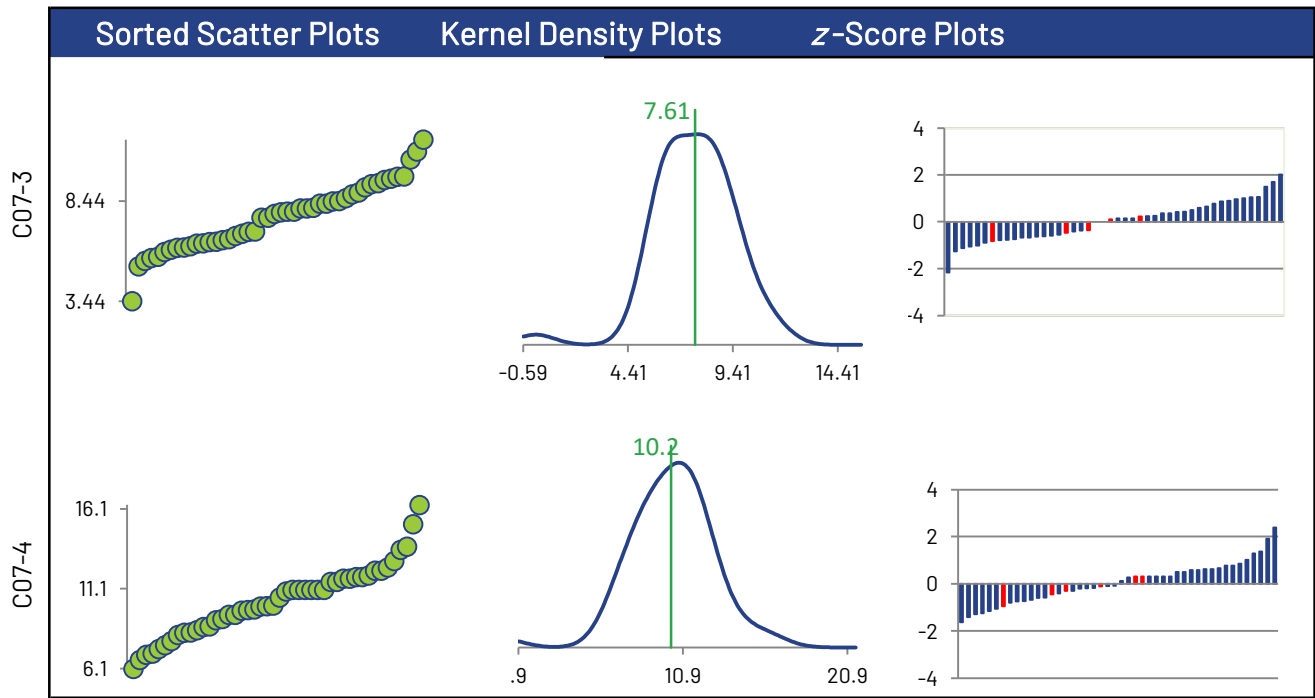
Method	C07-1	C07-2	C07-3	C07-4
GC/MS (Blue)	40	40	40	40
GC/MS/MS (Red)	6	6	6	6

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

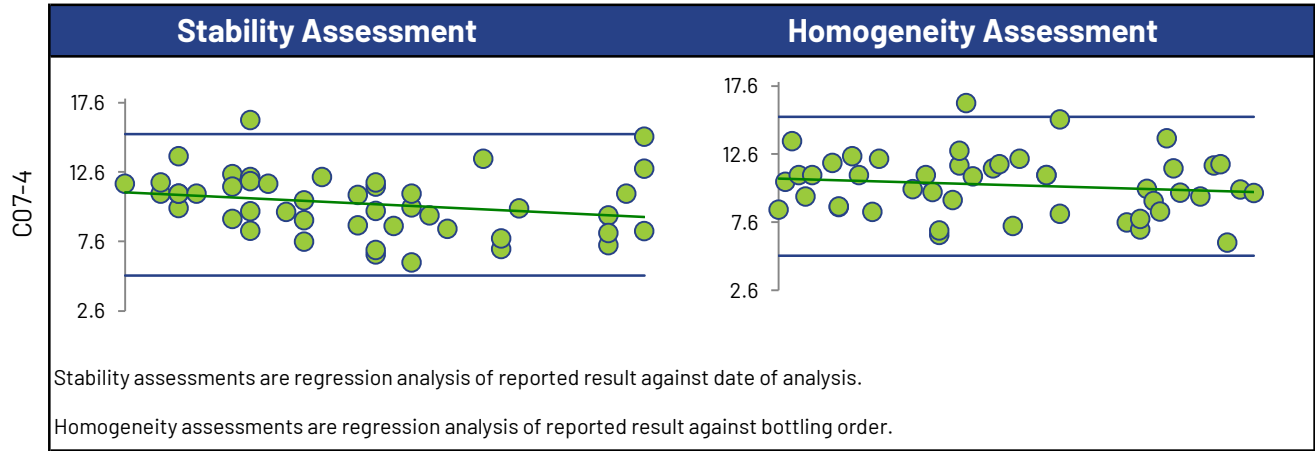


* Displayed failure rate does not account for the RDL modified z-Scores or inaccurately reported non-detects.

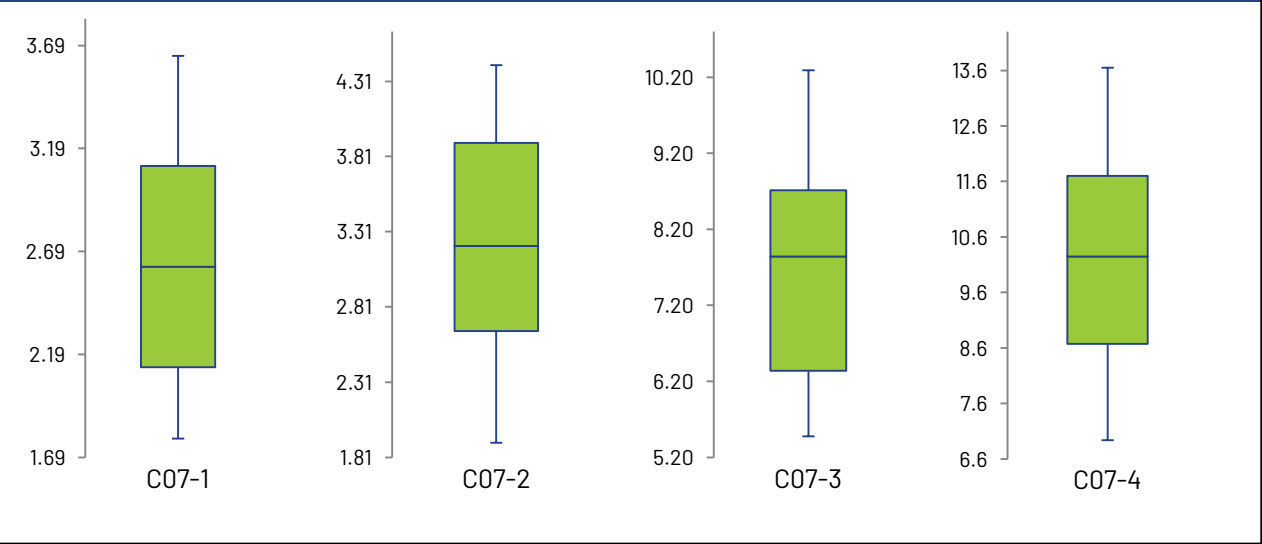
Dibenzo(a,h)anthracene



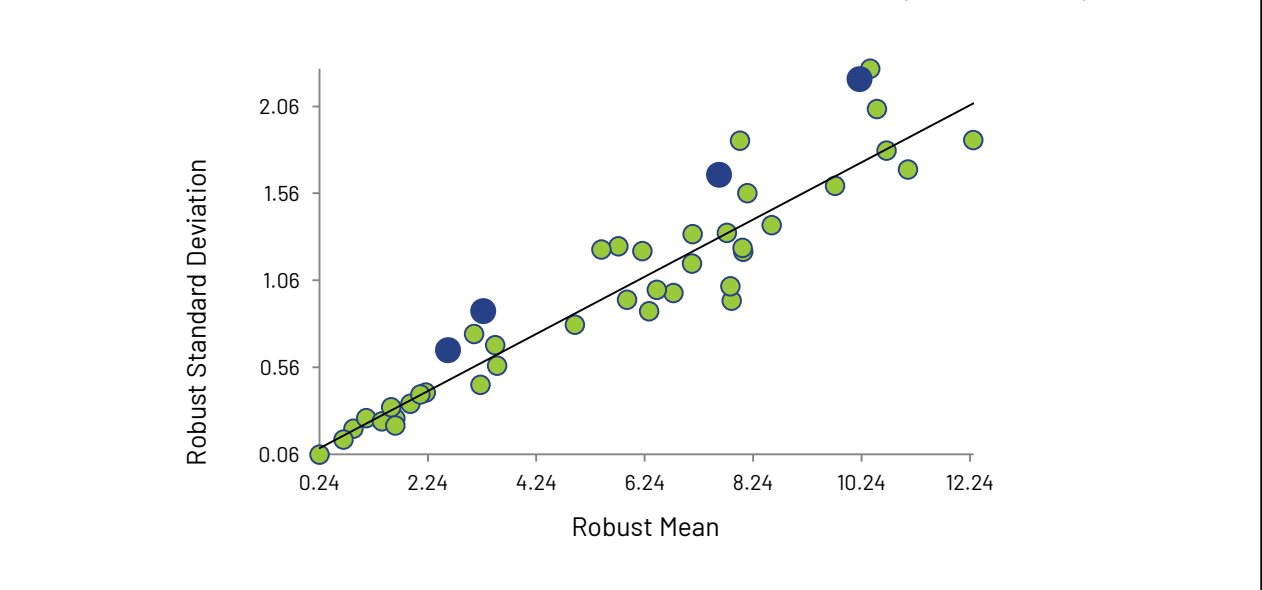
Dibenzo(a,h)anthracene



Box and Whisker Plots



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



Fluoranthene

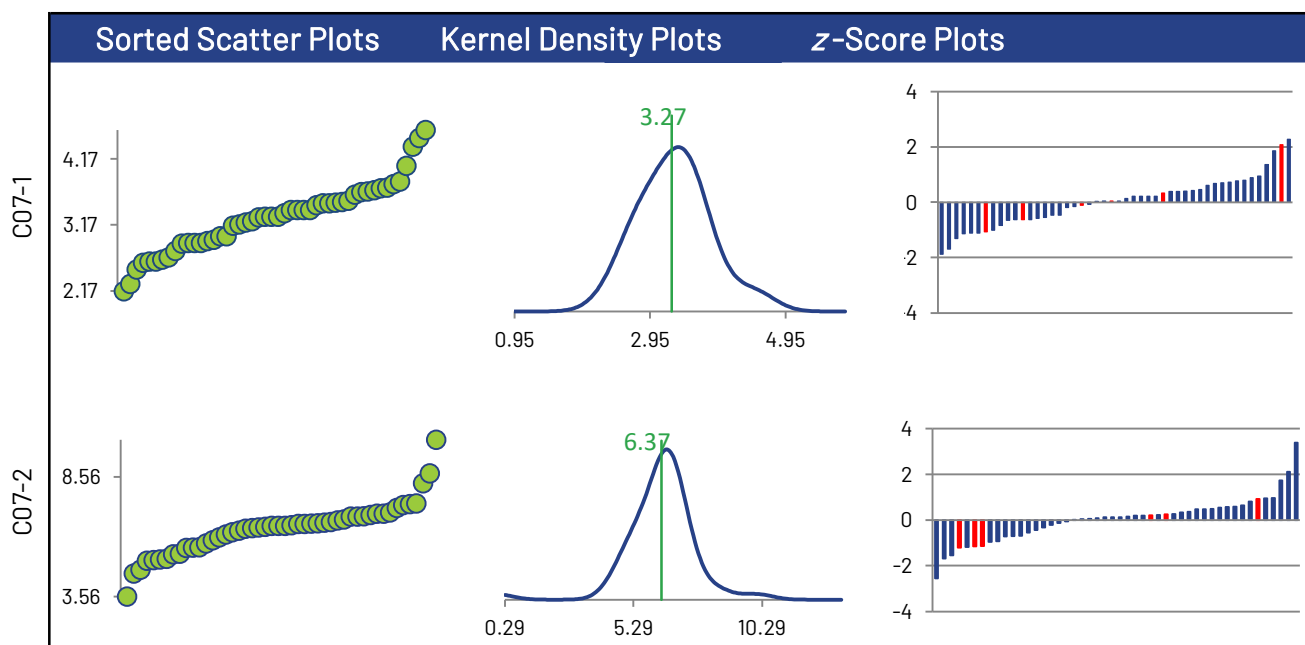
Summary Statistics

Statistic	C07-1	C07-2	C07-3	C07-4
No. of results used for summary statistics	48	48	48	48
Median µg/L	3.30	6.51	9.08	9.49
Robust Mean µg/L	3.27	6.37	8.79	9.39
Uncertainty of the Assigned Value µg/L	0.0909	0.162	0.244	0.224
Robust Standard Deviation µg/L	0.504	0.897	1.35	1.24
Regression Standard Deviation µg/L	0.587	1.10	1.49	1.59
Stability Flag			Stability	Stability
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/L	0.587	1.10	2.15	1.93
Flagged Outliers	0	0	0	0
$ z > 3.0$	0	1	0	0
$2 < z < 3$	2	2	0	0
Failure Rate %*	0.0			

Methods Used

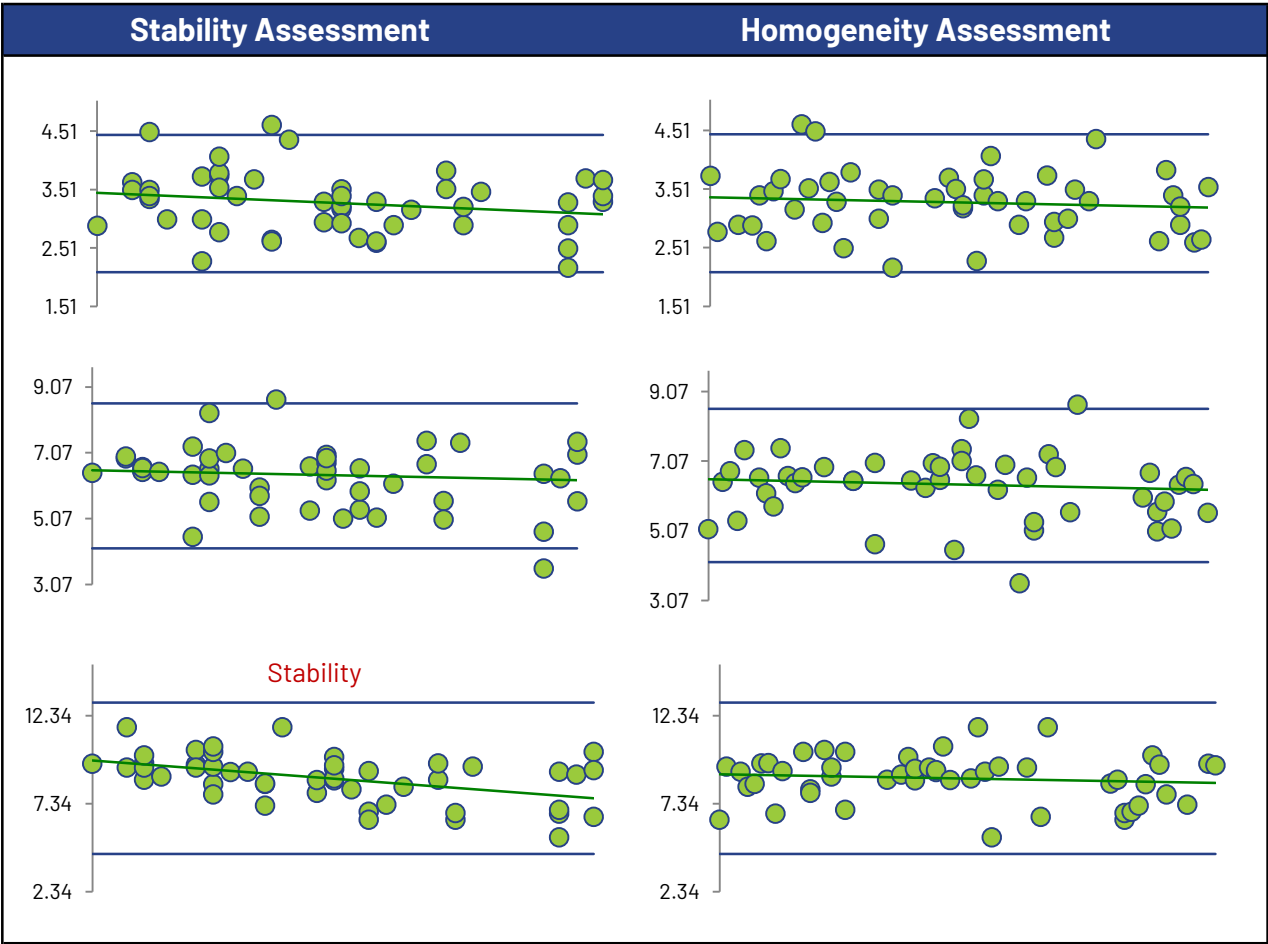
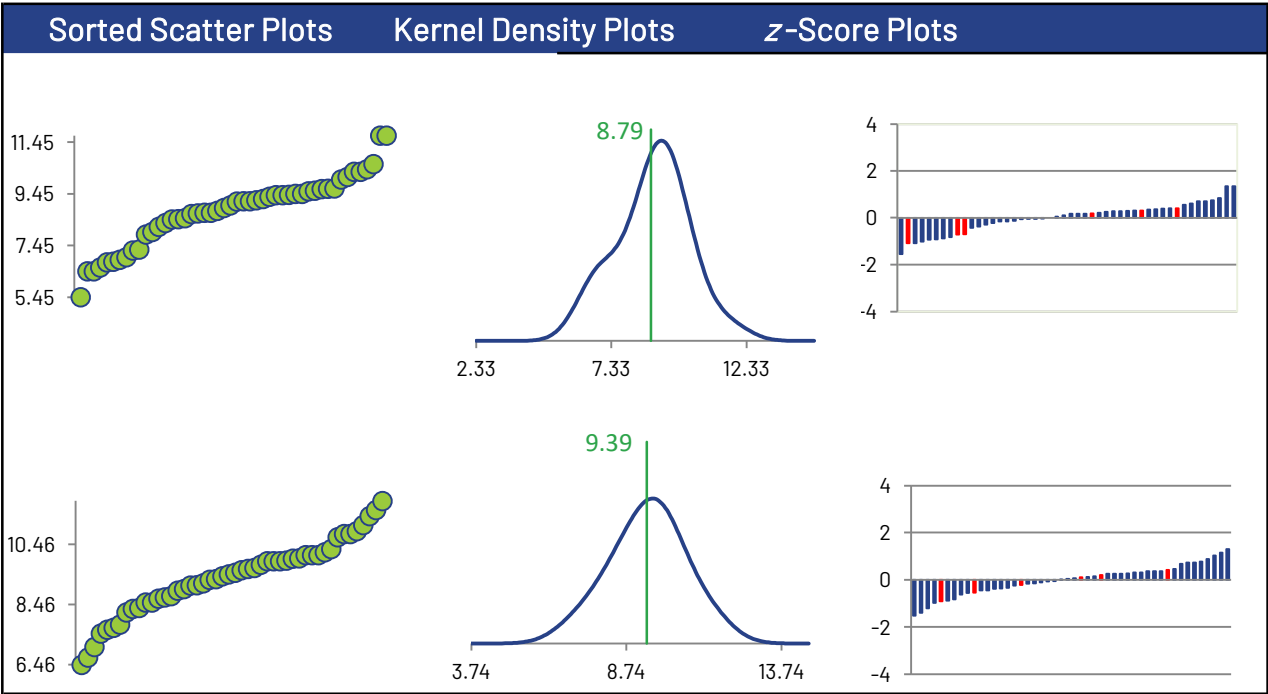
Method	C07-1	C07-2	C07-3	C07-4
GC/MS (Blue)	42	42	42	42
GC/MS/MS (Red)	6	6	6	6

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

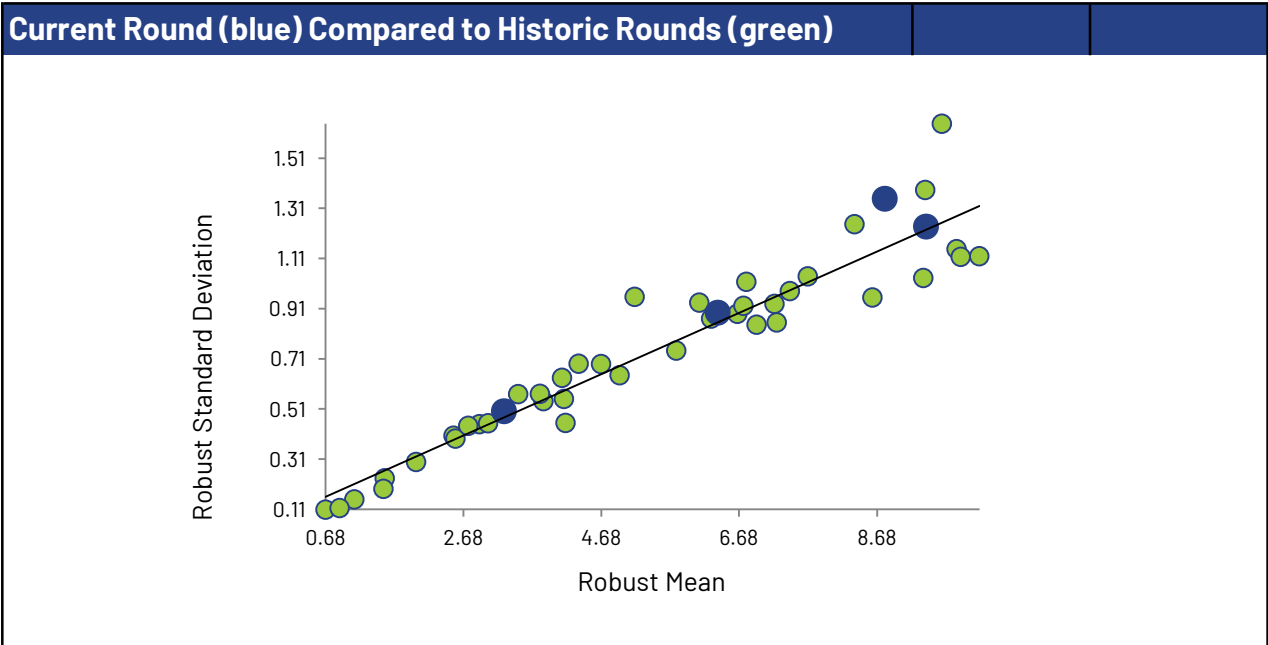
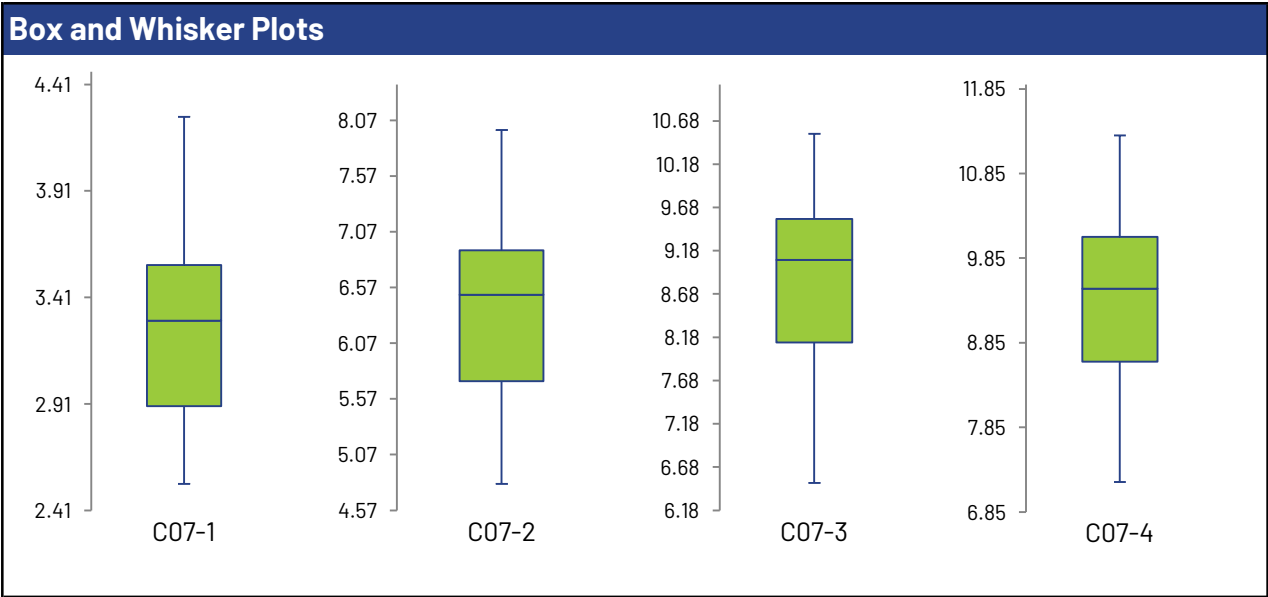
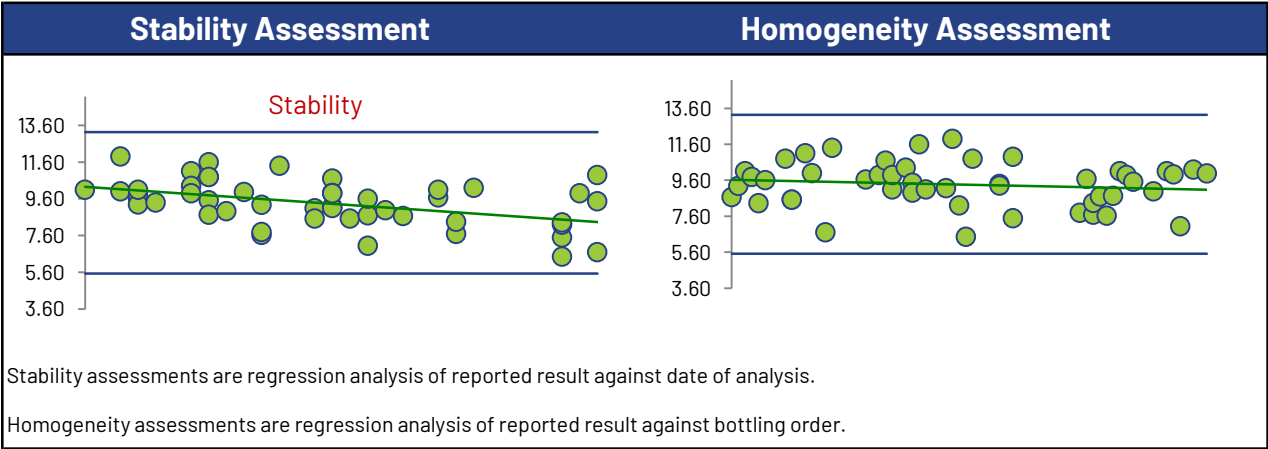


* Displayed failure rate does not account for the RDL modified z-Scores or inaccurately reported non-detects.

Fluoranthene



Fluoranthene



Fluorene

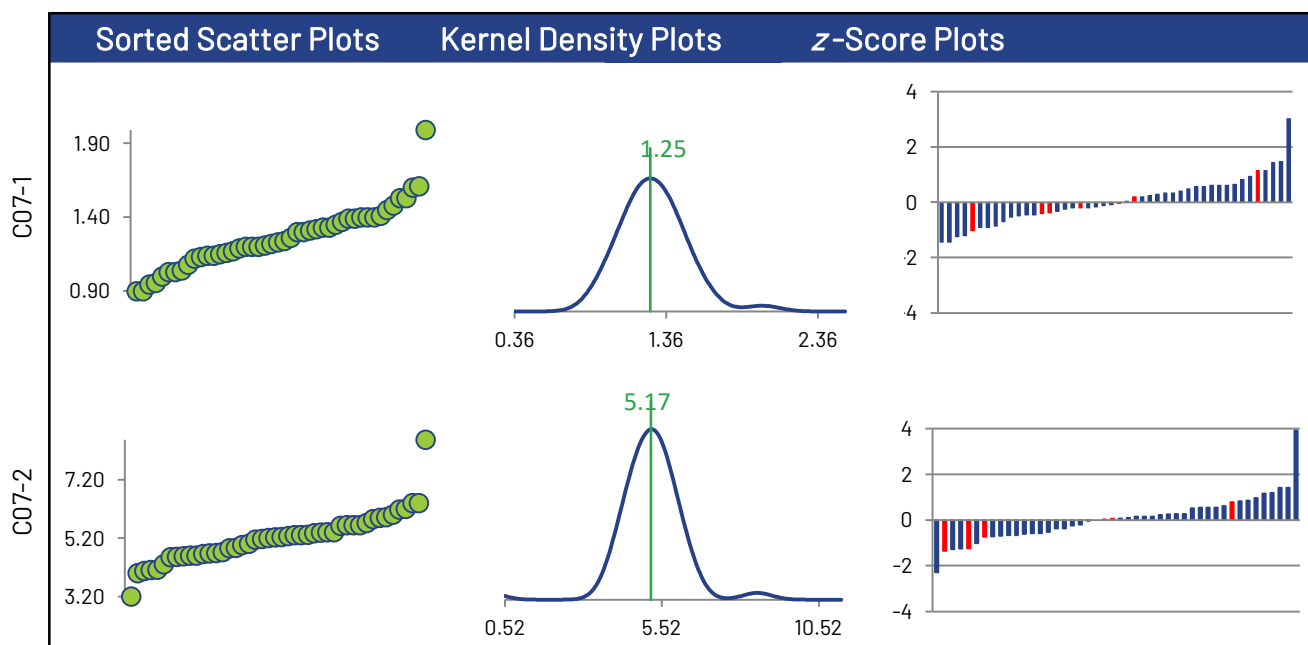
Summary Statistics

Statistic	C07-1	C07-2	C07-3	C07-4
No. of results used for summary statistics	46	46	46	46
Median µg/L	1.24	5.23	6.47	11.1
Robust Mean µg/L	1.25	5.17	6.46	11.1
Uncertainty of the Assigned Value µg/L	0.0365	0.136	0.172	0.254
Robust Standard Deviation µg/L	0.198	0.739	0.934	1.38
Regression Standard Deviation µg/L	0.245	0.864	1.07	1.80
Stability Flag				
Homogeneity Flag			Homogeneity	
Standard Deviation Used (SDPA) µg/L	0.245	0.864	1.08	1.80
Flagged Outliers	0	0	0	0
$ z > 3.0$	1	1	0	0
$2 < z < 3$	0	1	1	0
Failure Rate %*	0.0			

Methods Used

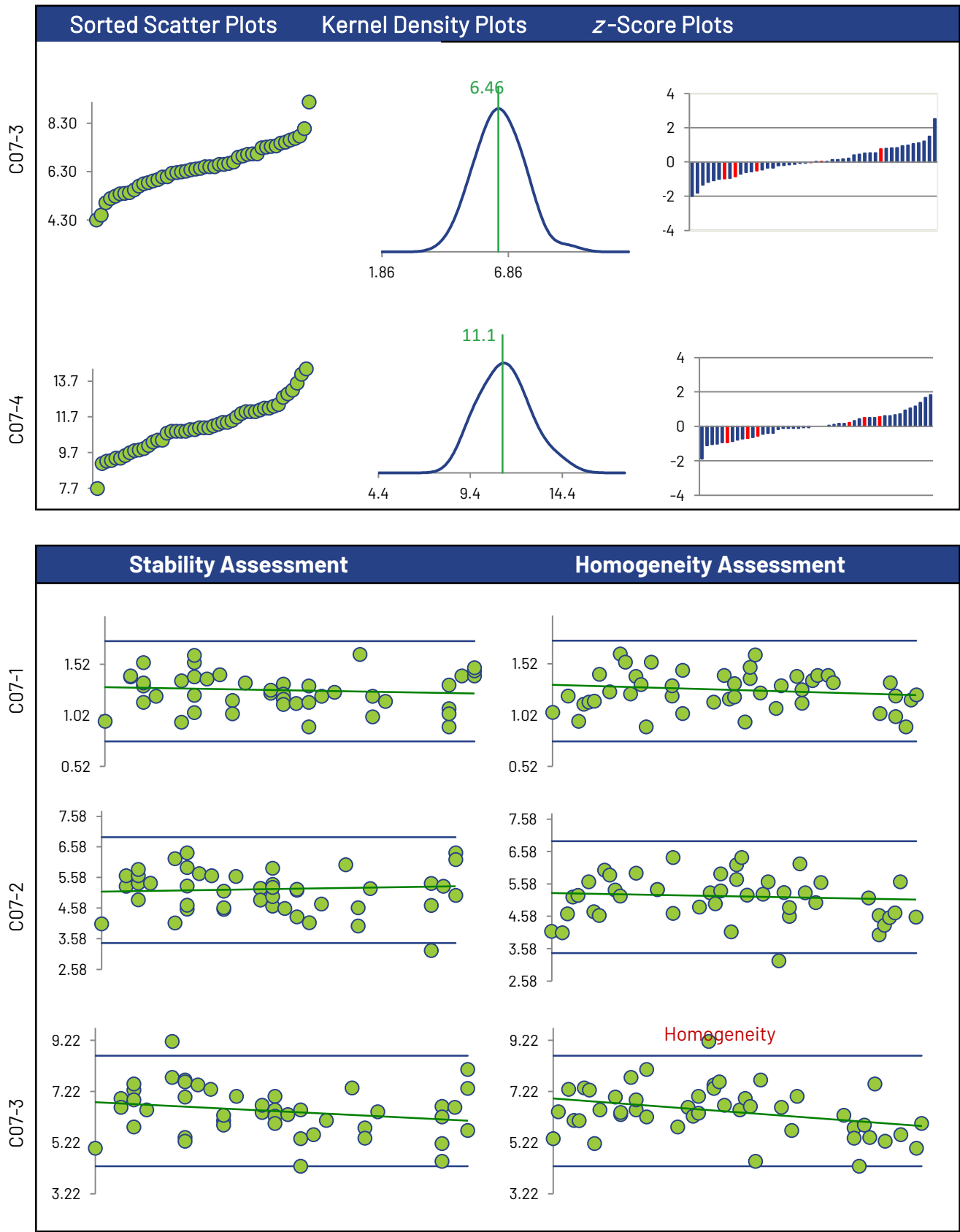
Method	C07-1	C07-2	C07-3	C07-4
GC/MS (Blue)	40	40	40	40
GC/MS/MS (Red)	6	6	6	6

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

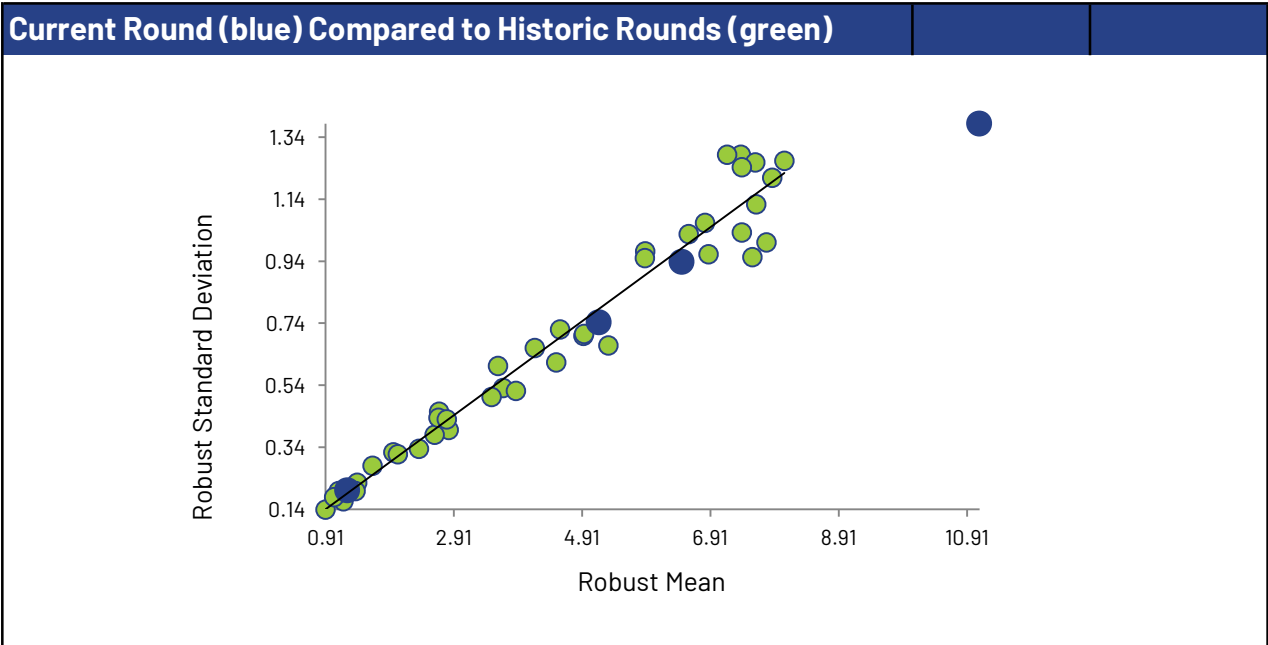
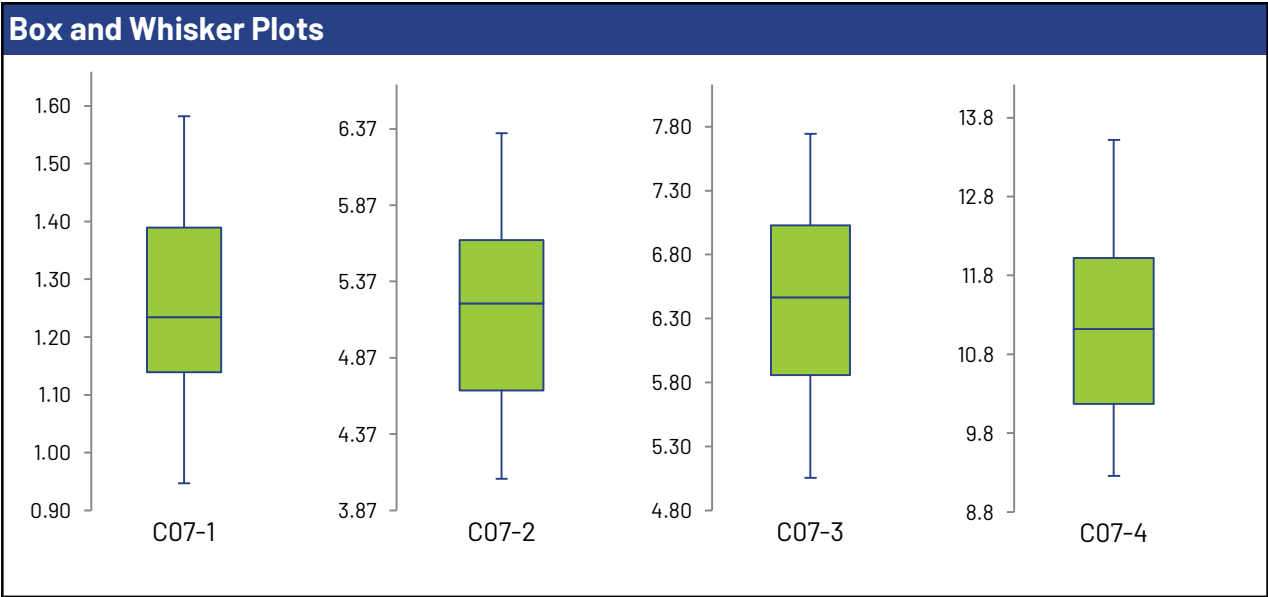
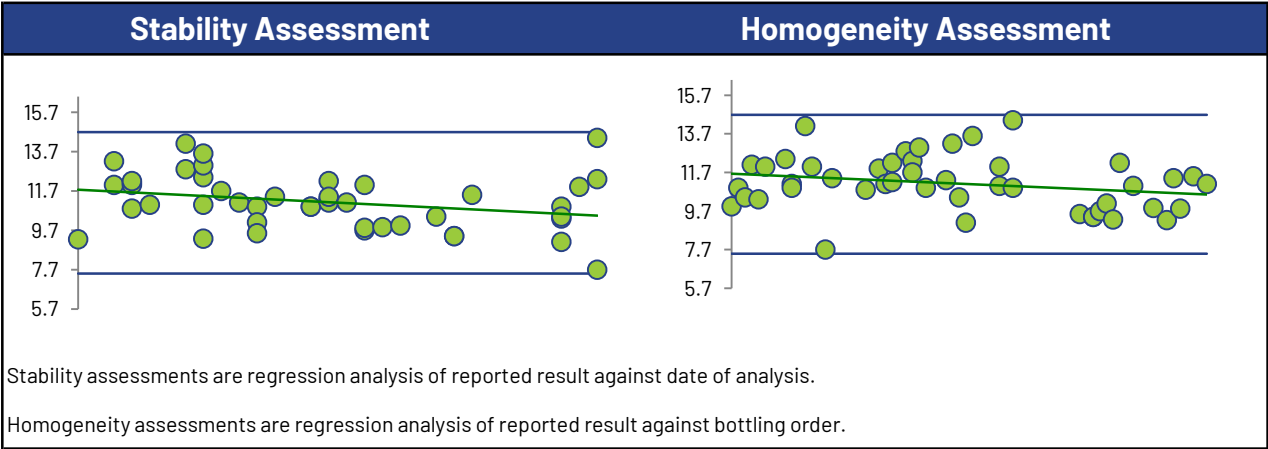


* Displayed failure rate does not account for the RDL modified z-Scores or inaccurately reported non-detects.

Fluorene



Fluorene



Indeno(1,2,3 - cd)pyrene

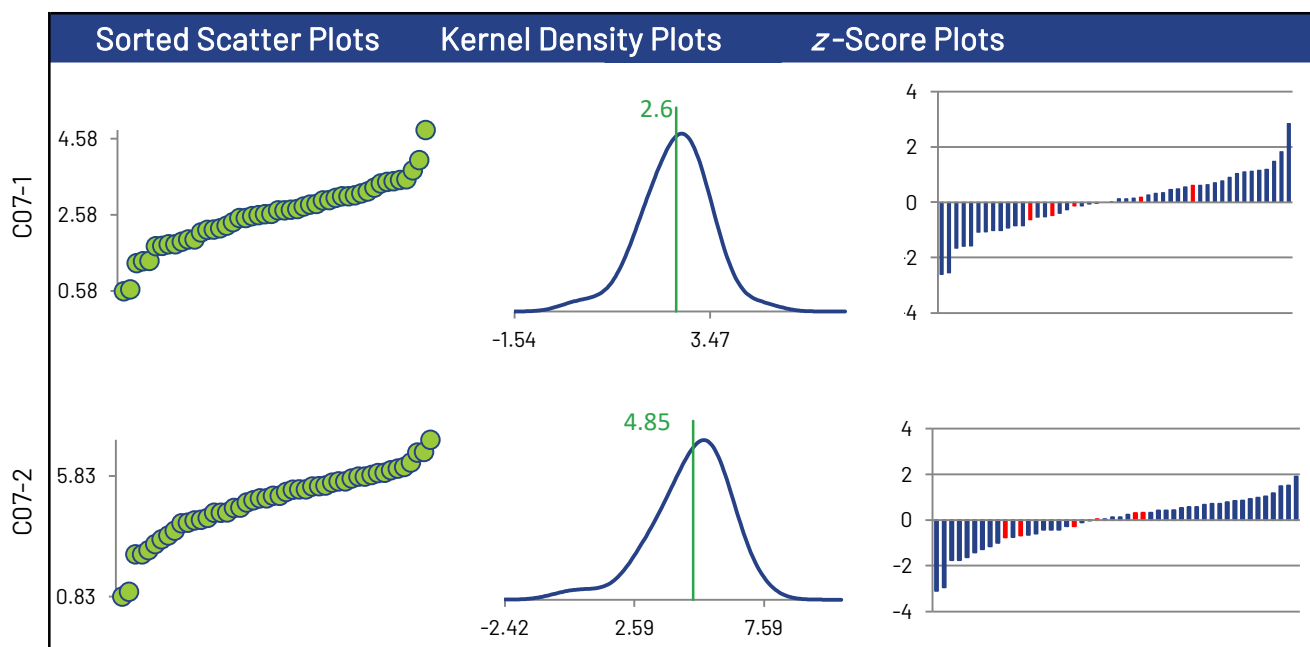
Summary Statistics

Statistic	C07-1	C07-2	C07-3	C07-4
No. of results used for summary statistics	48	48	48	47
Median µg/L	2.66	5.00	7.82	11.6
Robust Mean µg/L	2.60	4.85	7.73	11.3
Uncertainty of the Assigned Value µg/L	0.140	0.235	0.305	0.403
Robust Standard Deviation µg/L	0.776	1.30	1.69	2.21
Regression Standard Deviation µg/L	0.720	1.30	2.04	2.97
Stability Flag			Stability	
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/L	0.776	1.30	2.33	2.97
Flagged Outliers	0	0	0	1
$ z > 3.0$	0	1	0	0
$2 < z < 3$	3	1	1	1
Failure Rate %*	2.1			

Methods Used

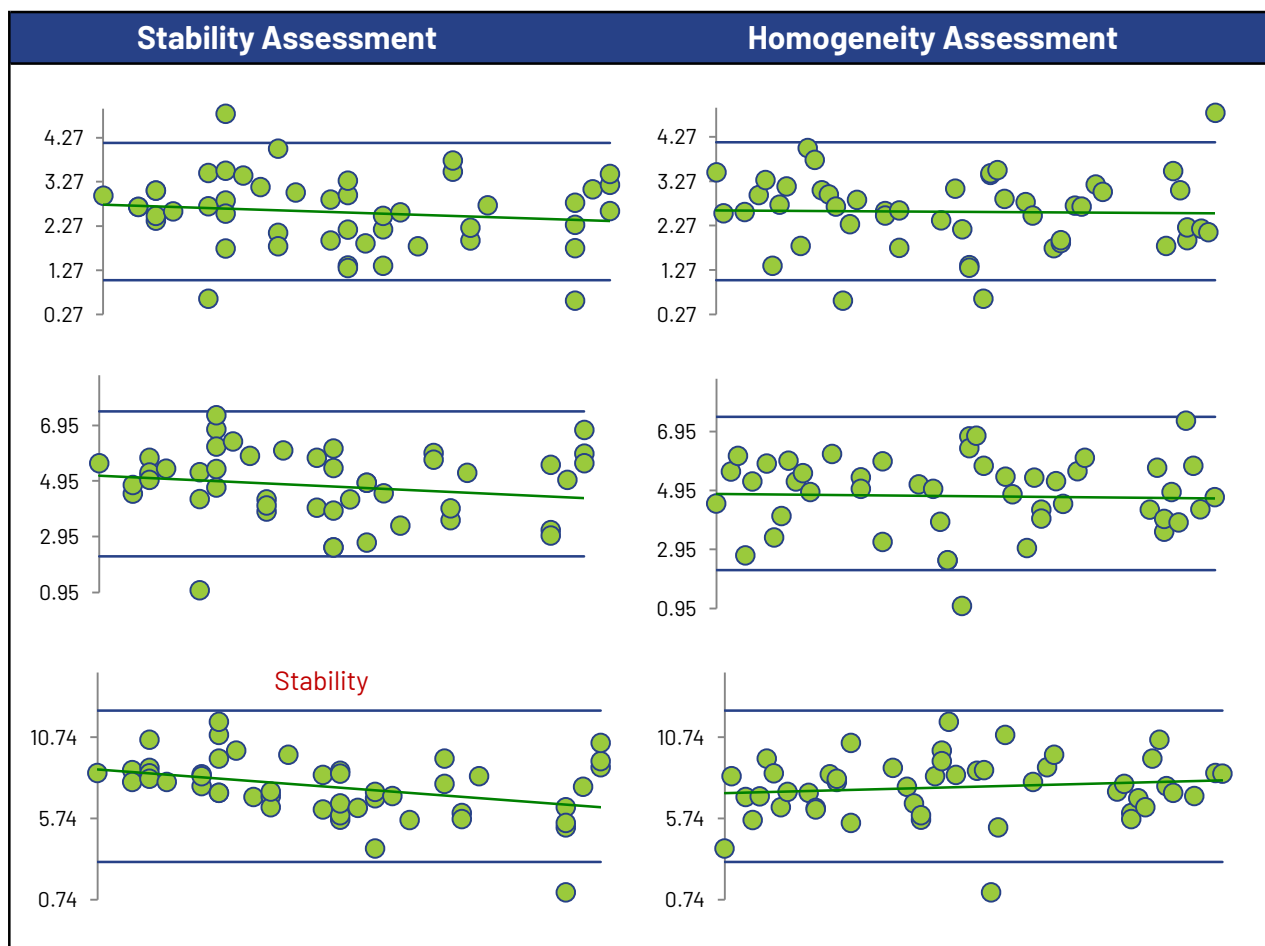
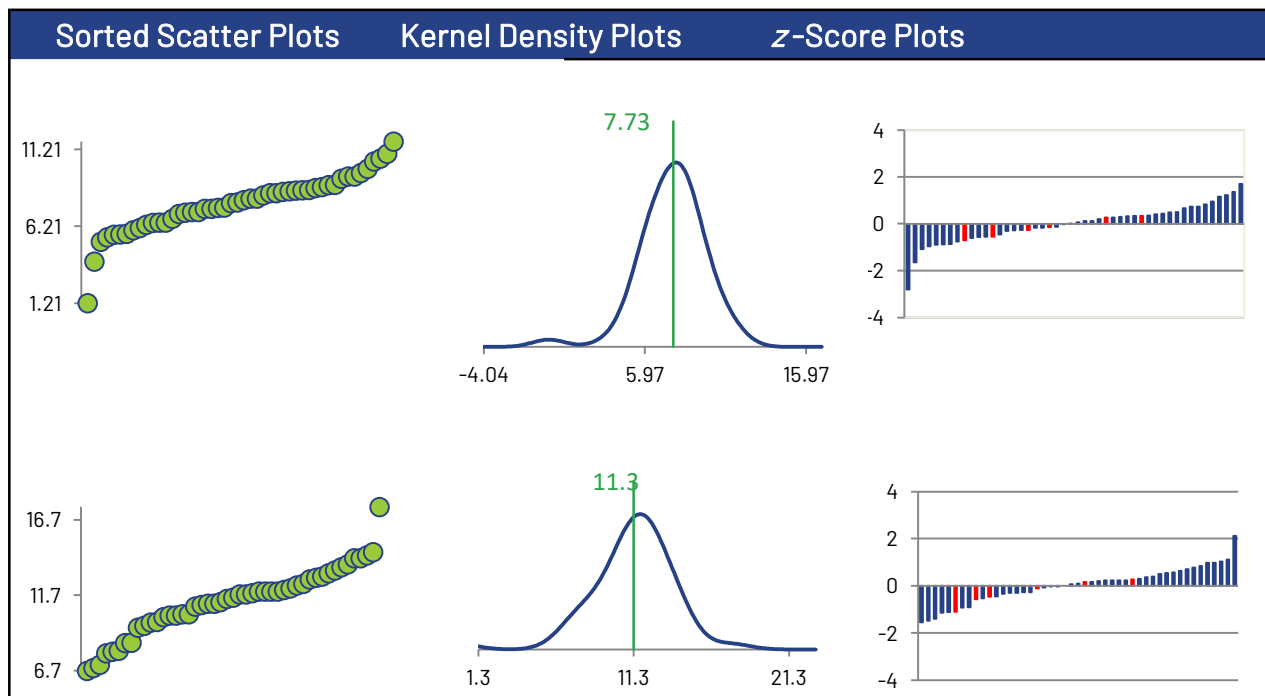
Method	C07-1	C07-2	C07-3	C07-4
GC/MS (Blue)	42	42	42	41
GC/MS/MS (Red)	6	6	6	6

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

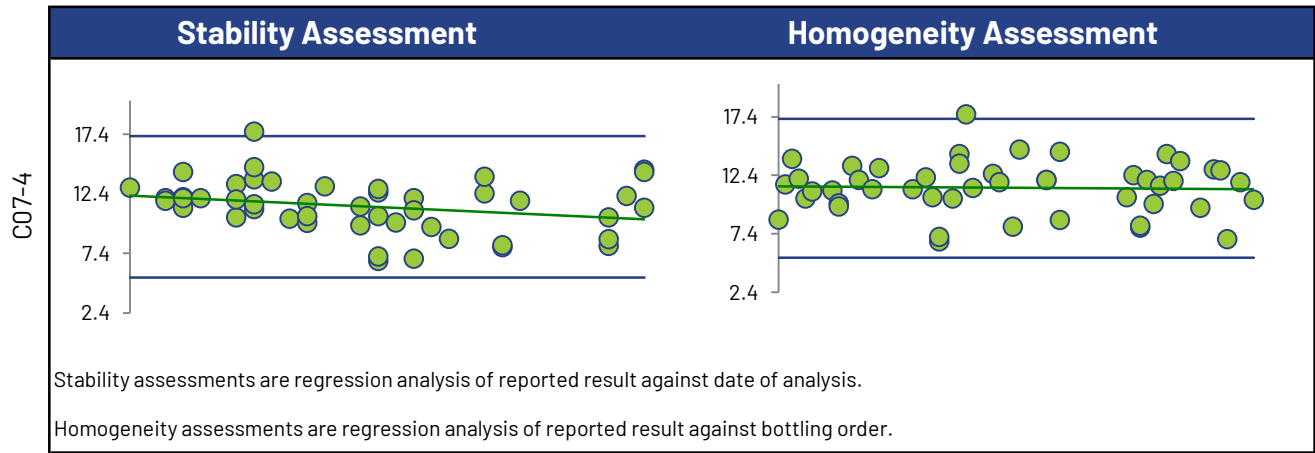


* Displayed failure rate does not account for the RDL modified z-Scores or inaccurately reported non-detects.

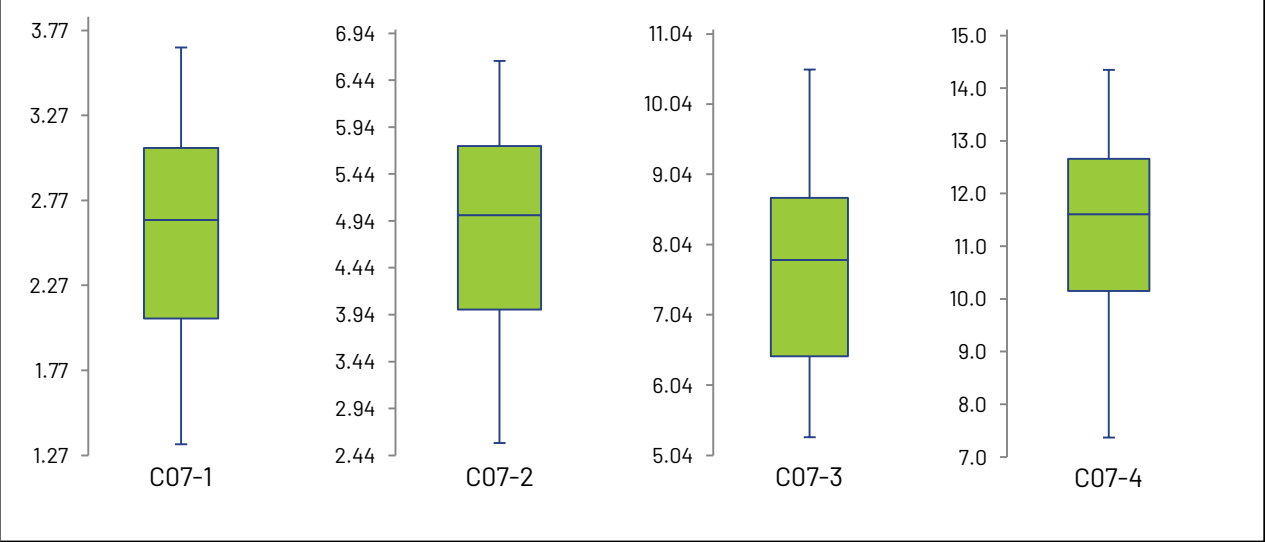
Indeno(1,2,3 - cd)pyrene



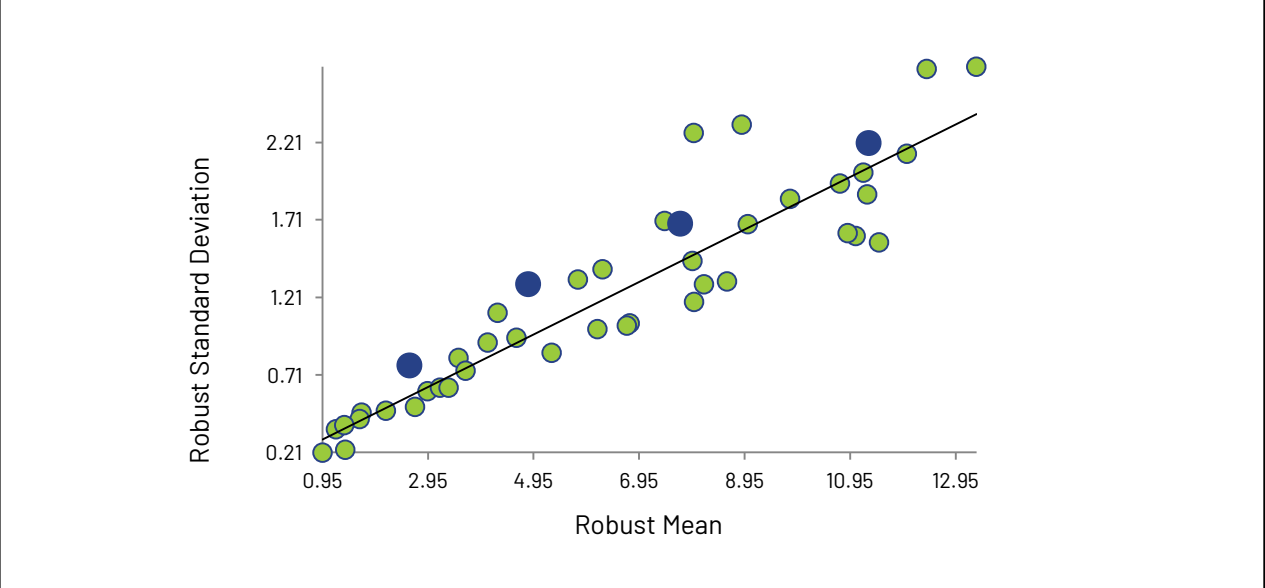
Indeno(1,2,3 - cd)pyrene



Box and Whisker Plots



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



Naphthalene

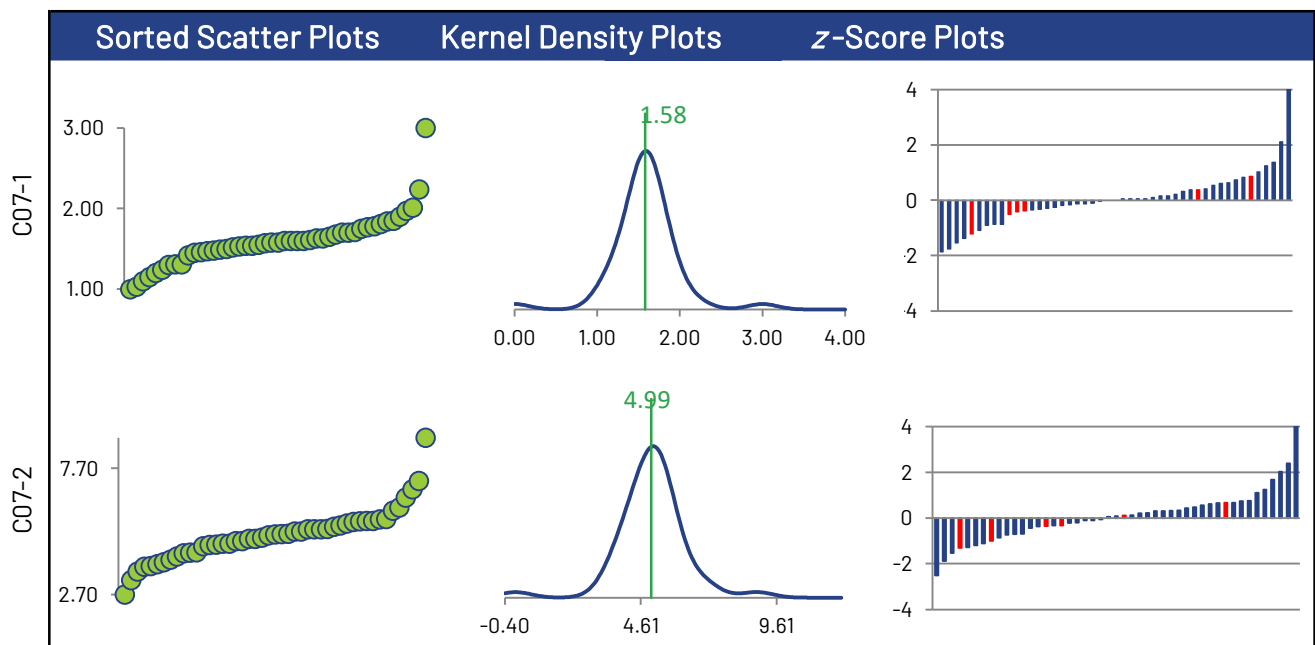
Summary Statistics

Statistic	C07-1	C07-2	C07-3	C07-4
No. of results used for summary statistics	47	47	47	47
Median µg/L	1.58	5.07	6.78	11.0
Robust Mean µg/L	1.58	4.99	6.70	10.8
Uncertainty of the Assigned Value µg/L	0.0443	0.153	0.230	0.335
Robust Standard Deviation µg/L	0.243	0.840	1.26	1.84
Regression Standard Deviation µg/L	0.312	0.916	1.22	1.94
Stability Flag				Stability
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/L	0.312	0.916	1.26	2.02
Flagged Outliers	0	0	0	0
$ z > 3.0$	1	1	0	0
$2 < z < 3$	1	3	6	2
Failure Rate %*	2.1			

Methods Used

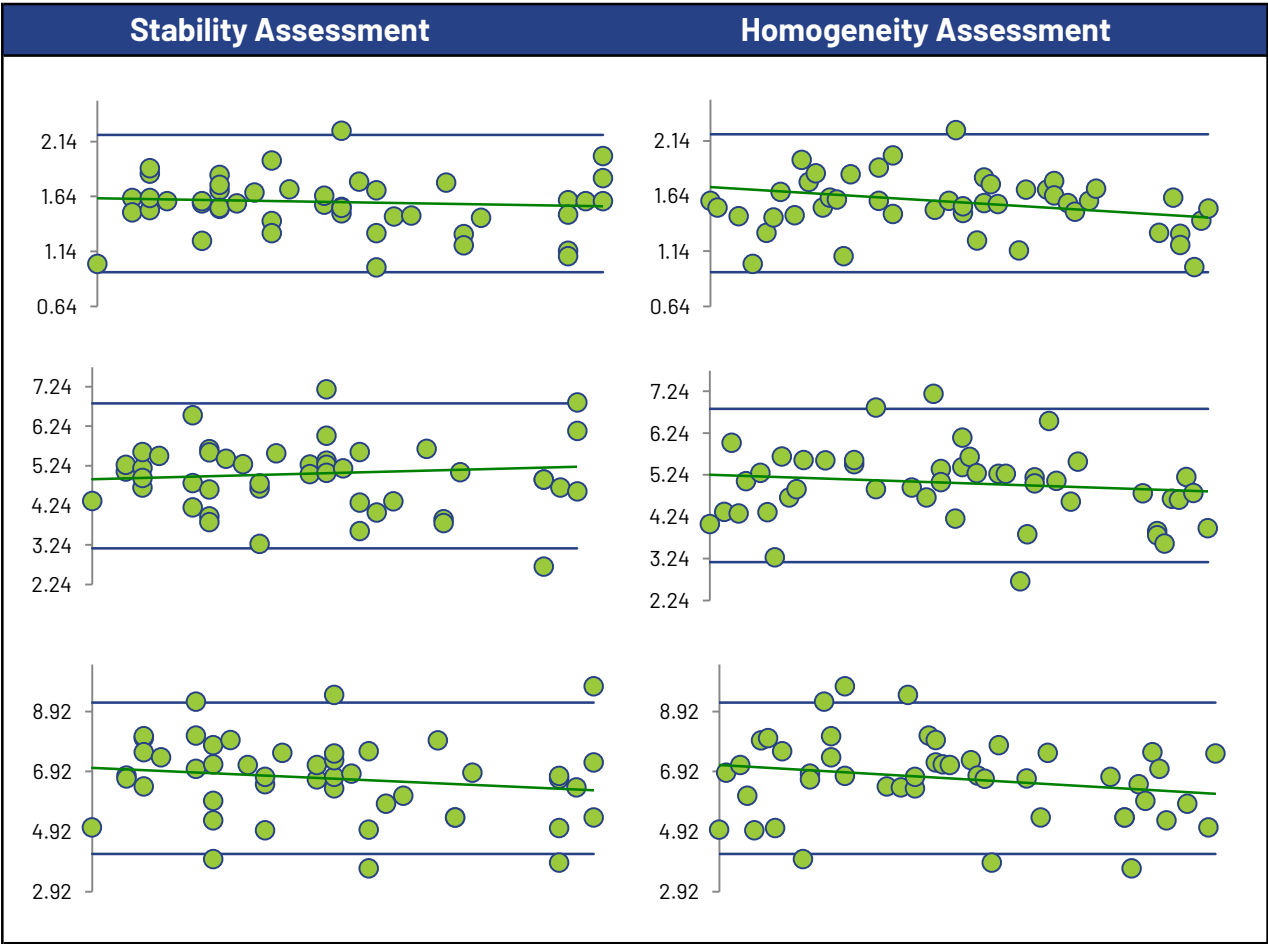
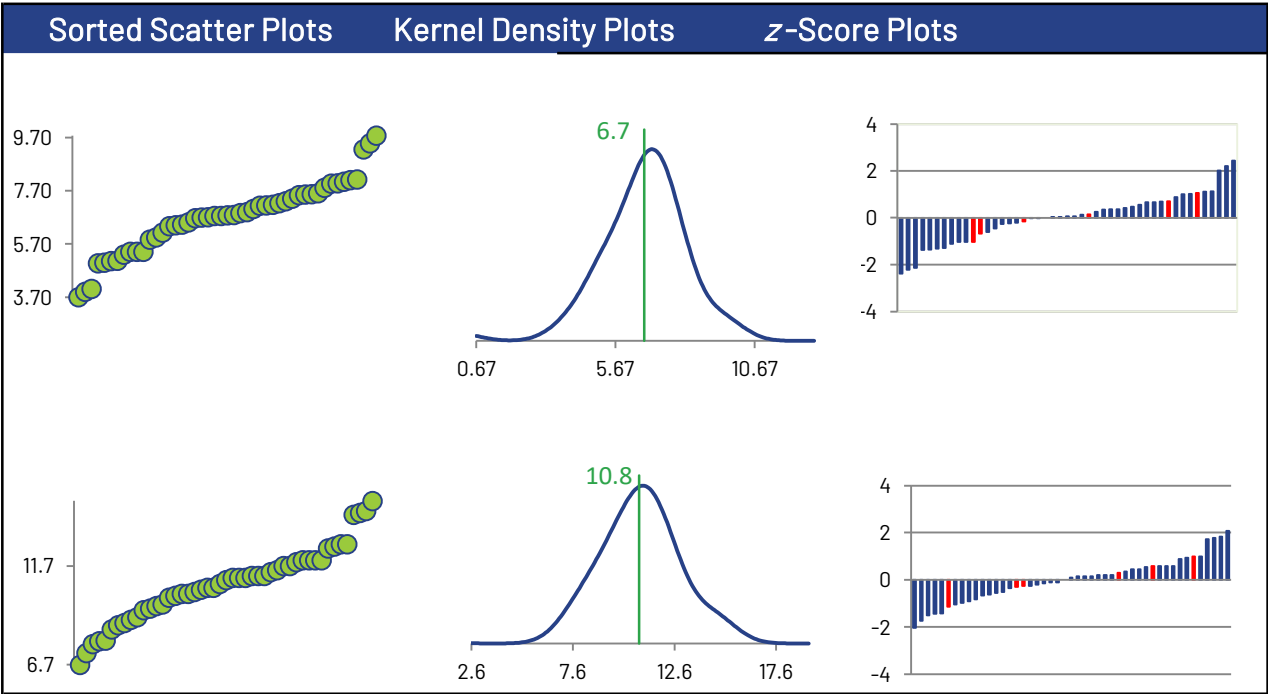
Method	C07-1	C07-2	C07-3	C07-4
GC/MS (Blue)	41	41	41	41
GC/MS/MS (Red)	6	6	6	6

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

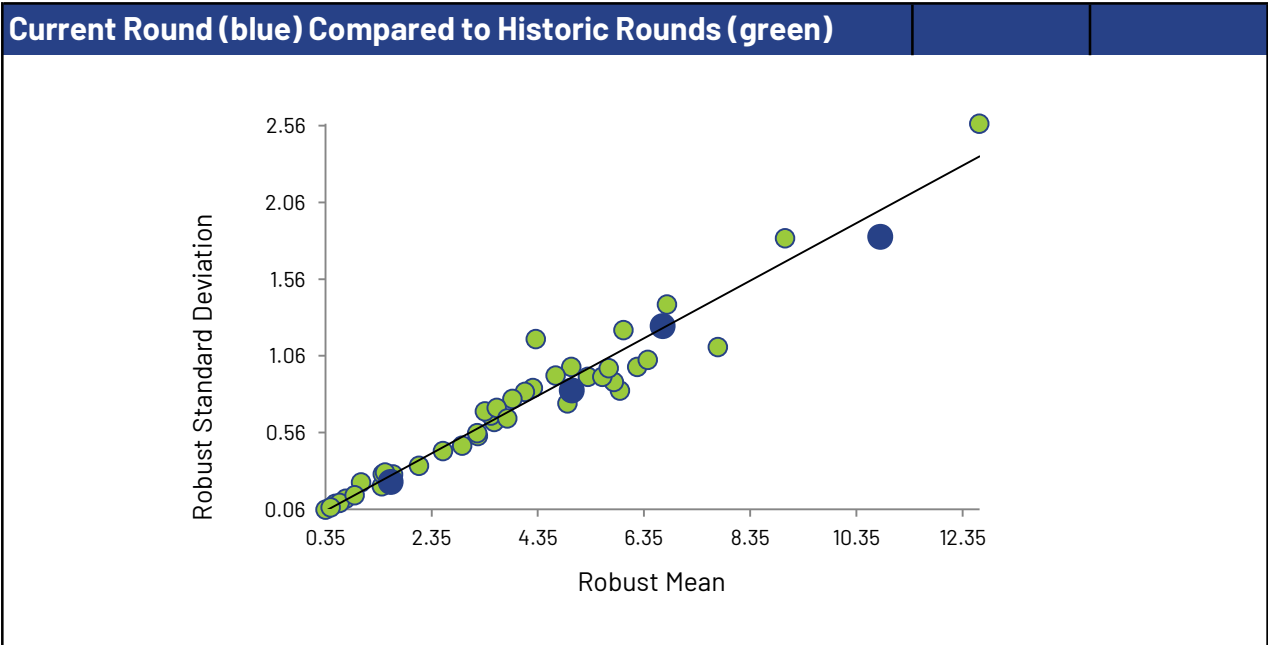
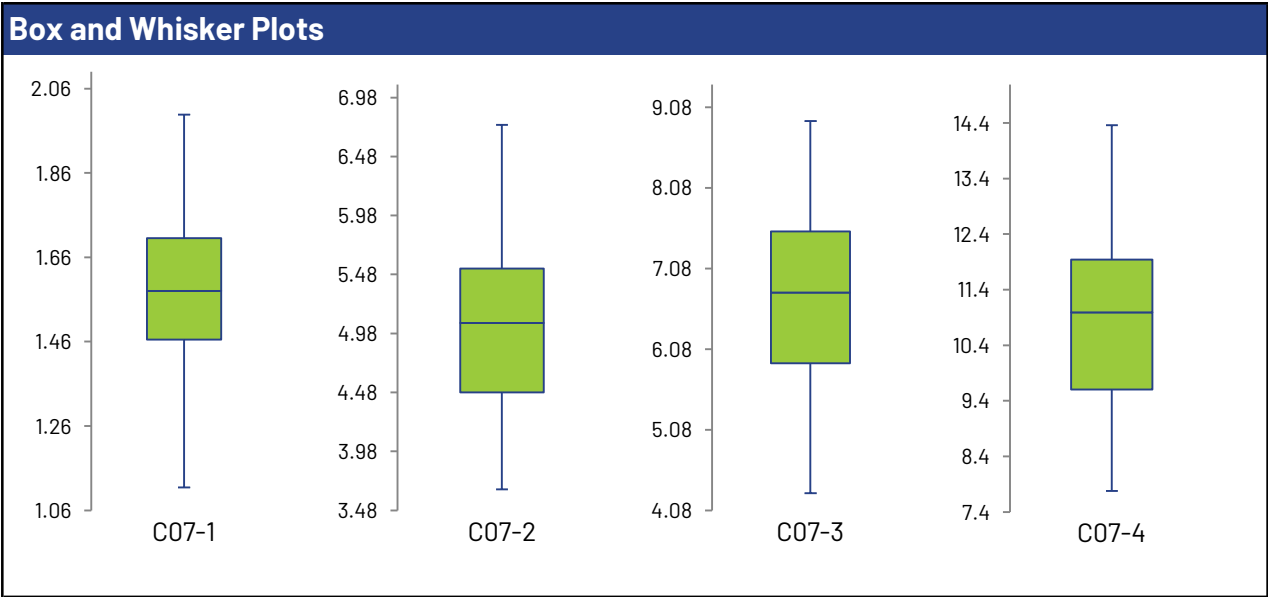
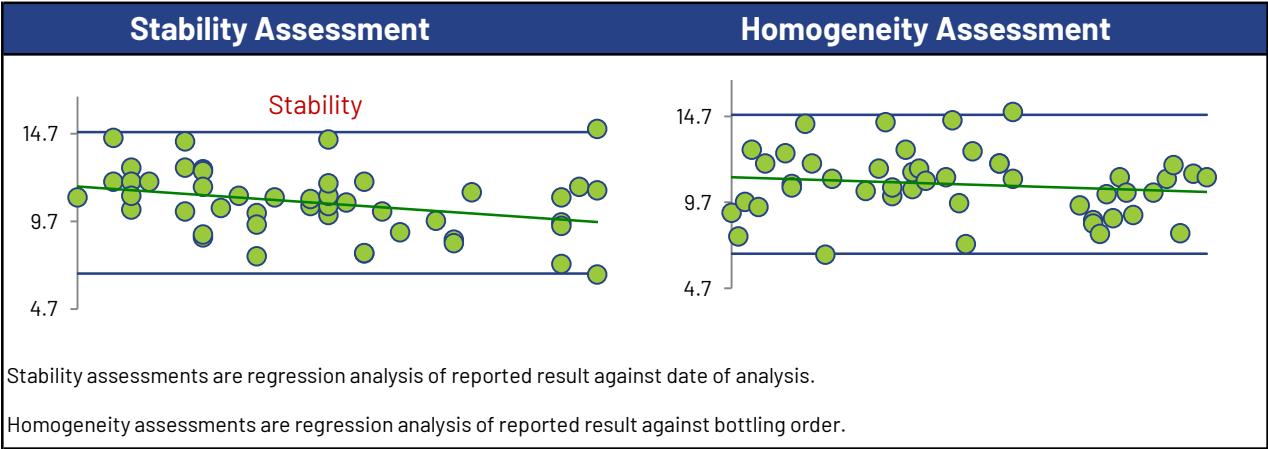


* Displayed failure rate does not account for the RDL modified z-Scores or inaccurately reported non-detects.

Naphthalene



Naphthalene



Phenanthrene

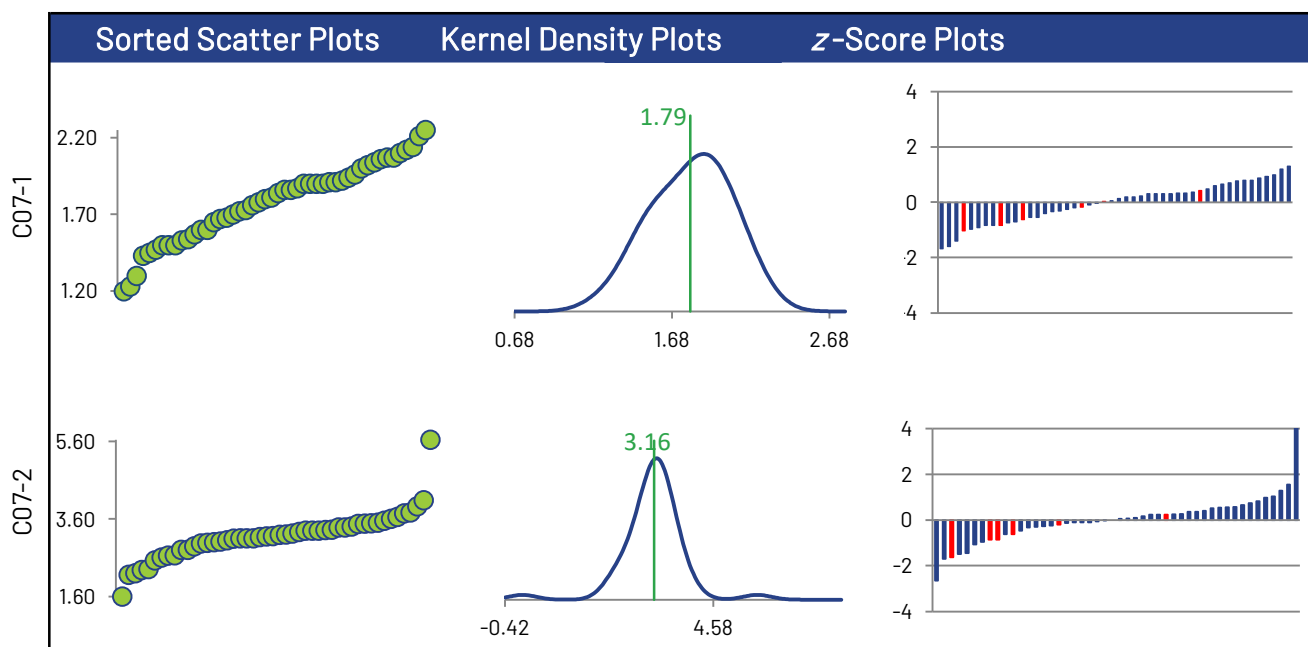
Summary Statistics

Statistic	C07-1	C07-2	C07-3	C07-4
No. of results used for summary statistics	48	48	48	48
Median µg/L	1.83	3.18	6.29	8.82
Robust Mean µg/L	1.79	3.16	6.13	8.52
Uncertainty of the Assigned Value µg/L	0.0482	0.0806	0.174	0.211
Robust Standard Deviation µg/L	0.267	0.447	0.967	1.17
Regression Standard Deviation µg/L	0.351	0.591	1.11	1.53
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/L	0.351	0.591	1.11	1.53
Flagged Outliers	0	0	0	0
z >3.0	0	1	0	0
2< z <3	0	1	1	0
Failure Rate %*	2.1			

Methods Used

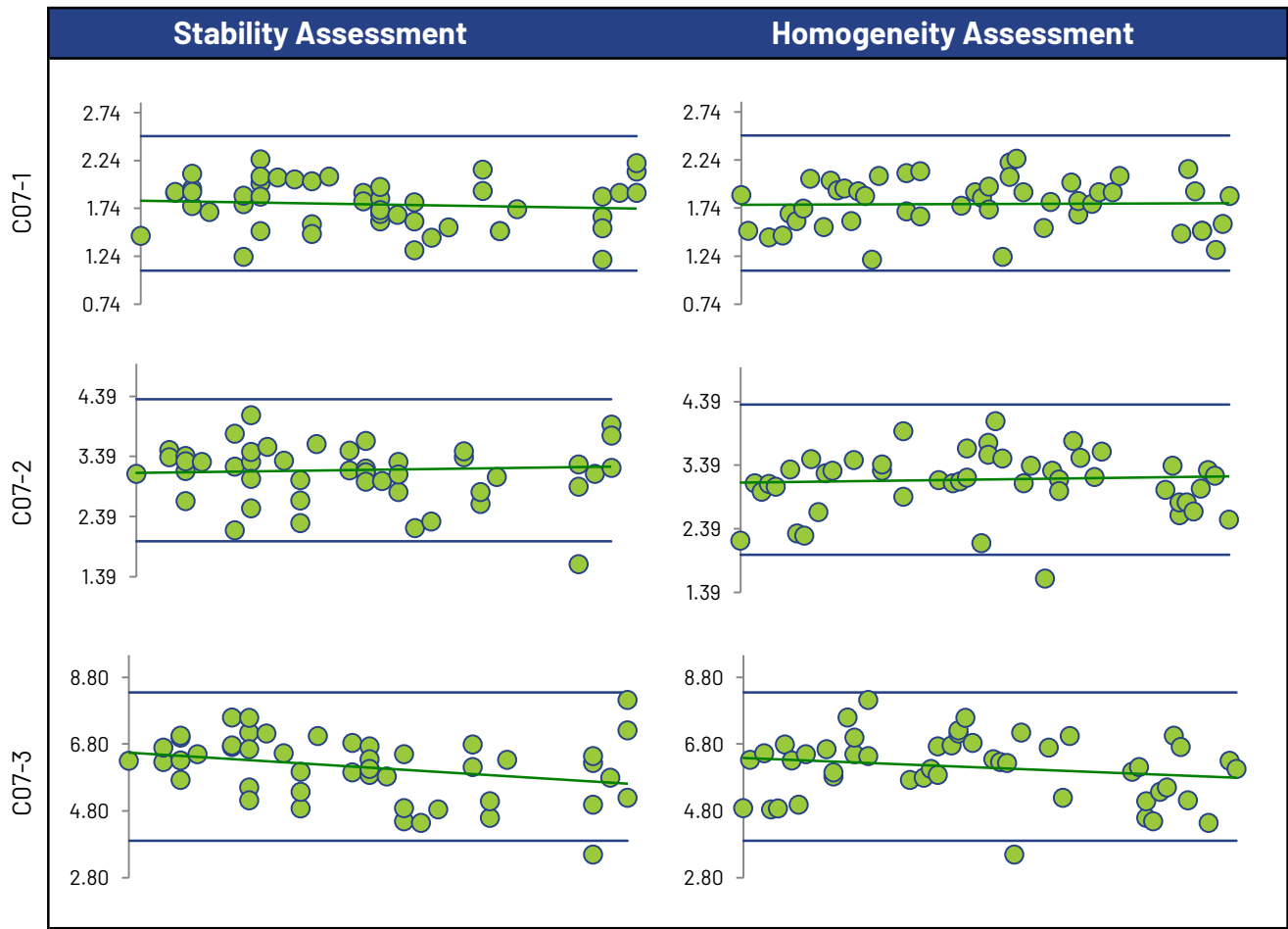
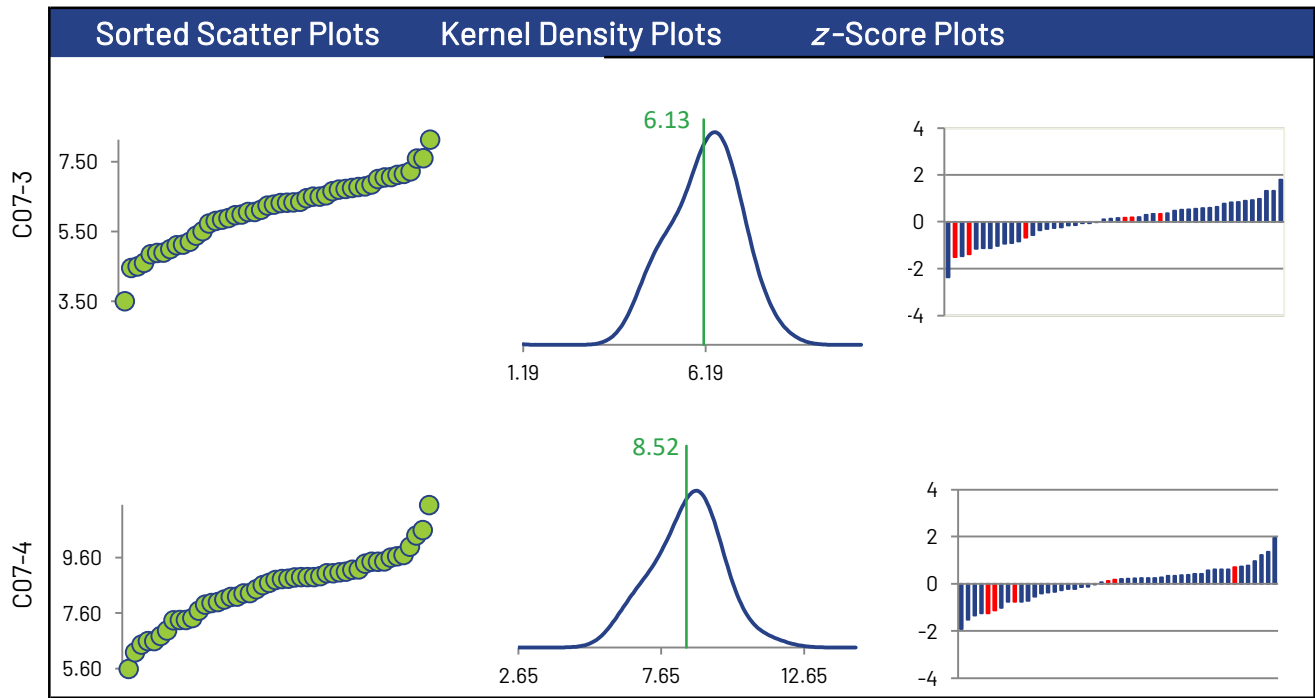
Method	C07-1	C07-2	C07-3	C07-4
GC/MS (Blue)	42	42	42	42
GC/MS/MS (Red)	6	6	6	6

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

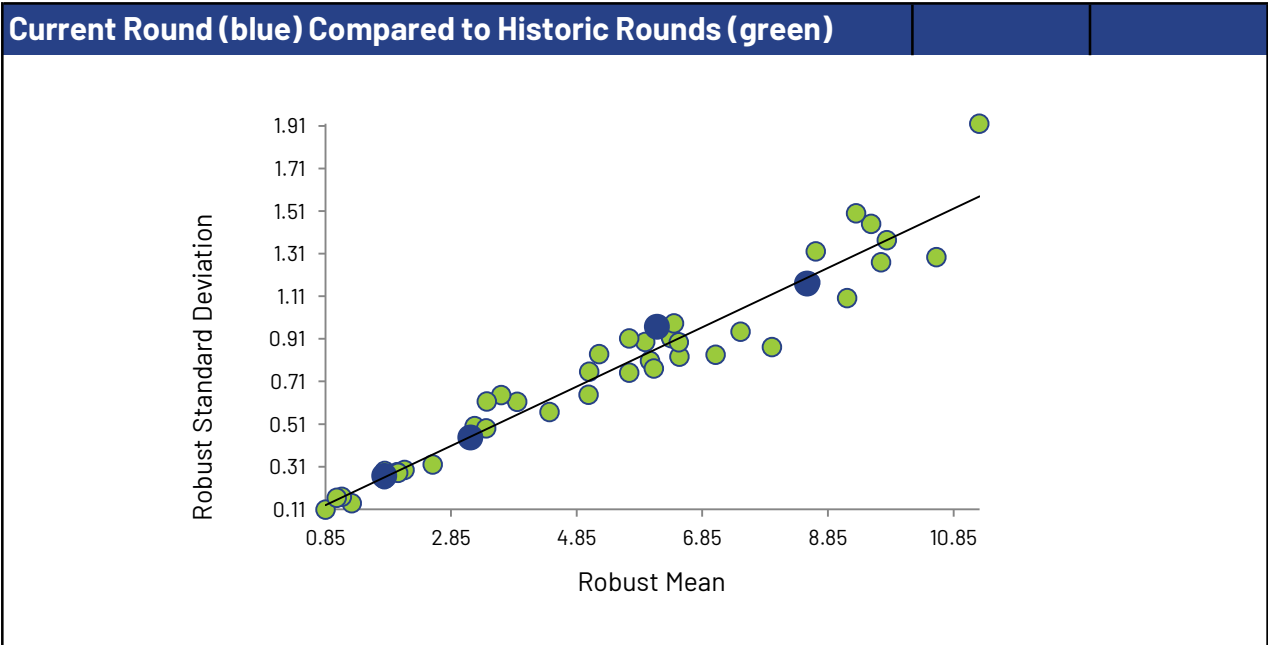
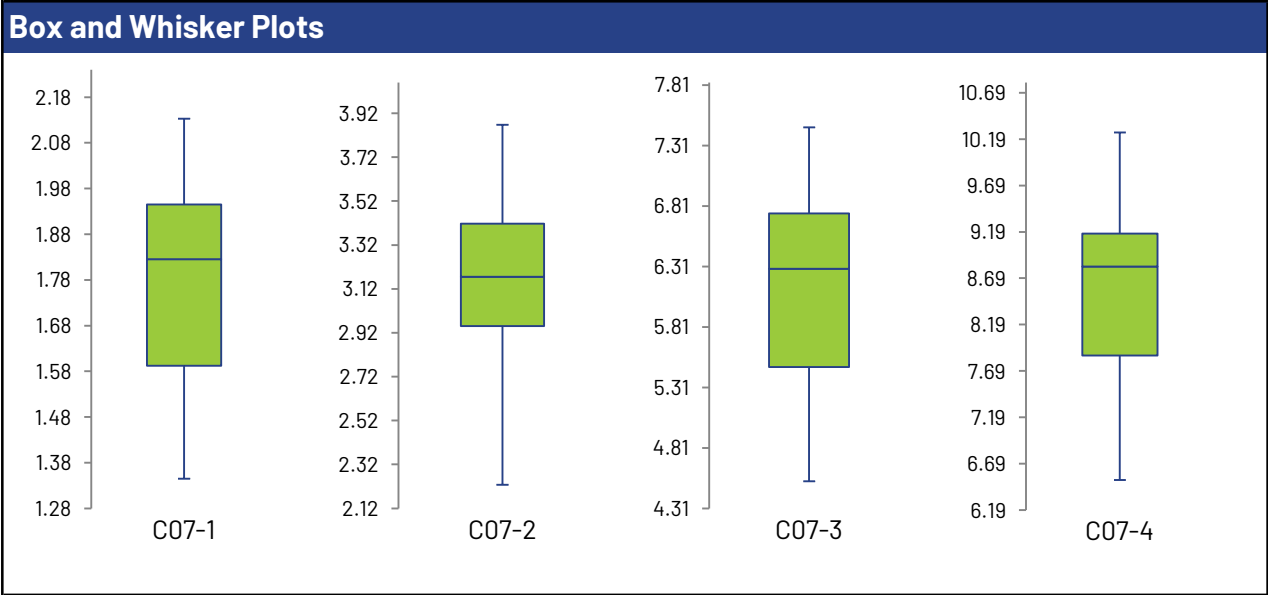
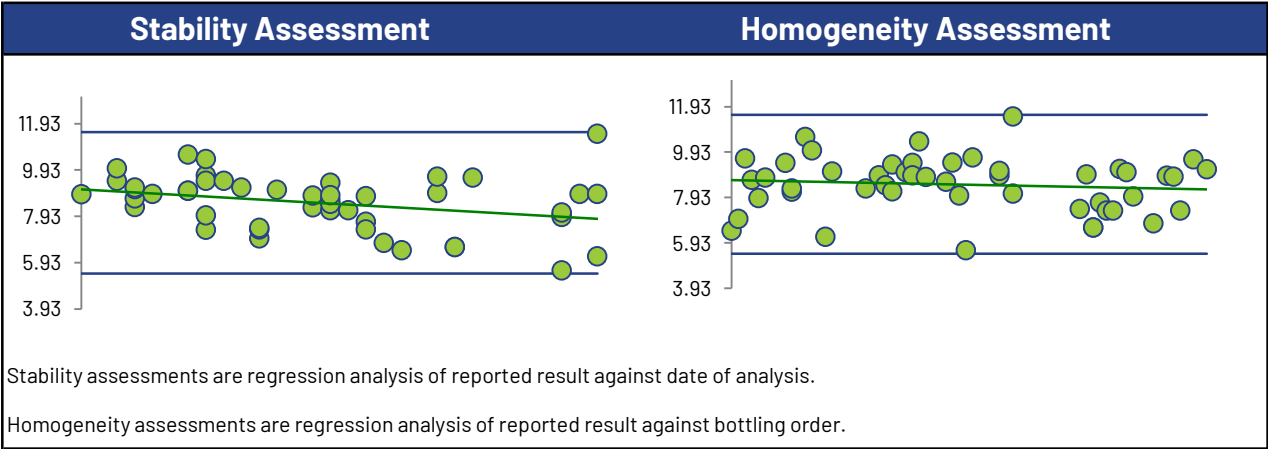


* Displayed failure rate does not account for the RDL modified z-Scores or inaccurately reported non-detects.

Phenanthrene



Phenanthrene



Pyrene

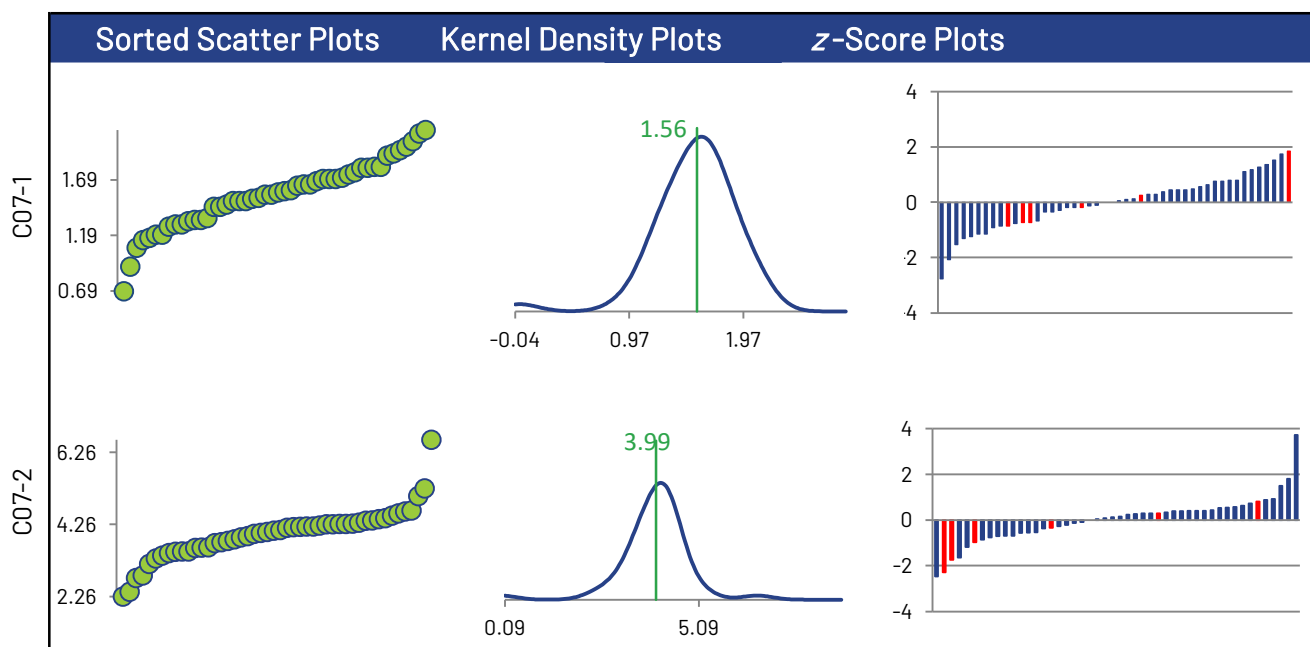
Summary Statistics

Statistic	C07-1	C07-2	C07-3	C07-4
No. of results used for summary statistics	48	48	48	48
Median µg/L	1.57	4.09	6.19	8.59
Robust Mean µg/L	1.56	3.99	6.09	8.56
Uncertainty of the Assigned Value µg/L	0.0545	0.0954	0.154	0.198
Robust Standard Deviation µg/L	0.302	0.529	0.853	1.10
Regression Standard Deviation µg/L	0.314	0.701	1.03	1.43
Stability Flag			Stability	Stability
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/L	0.314	0.701	1.12	1.76
Flagged Outliers	0	0	0	0
$ z > 3.0$	0	1	0	0
$2 < z < 3$	2	2	1	0
Failure Rate %*	0.0			

Methods Used

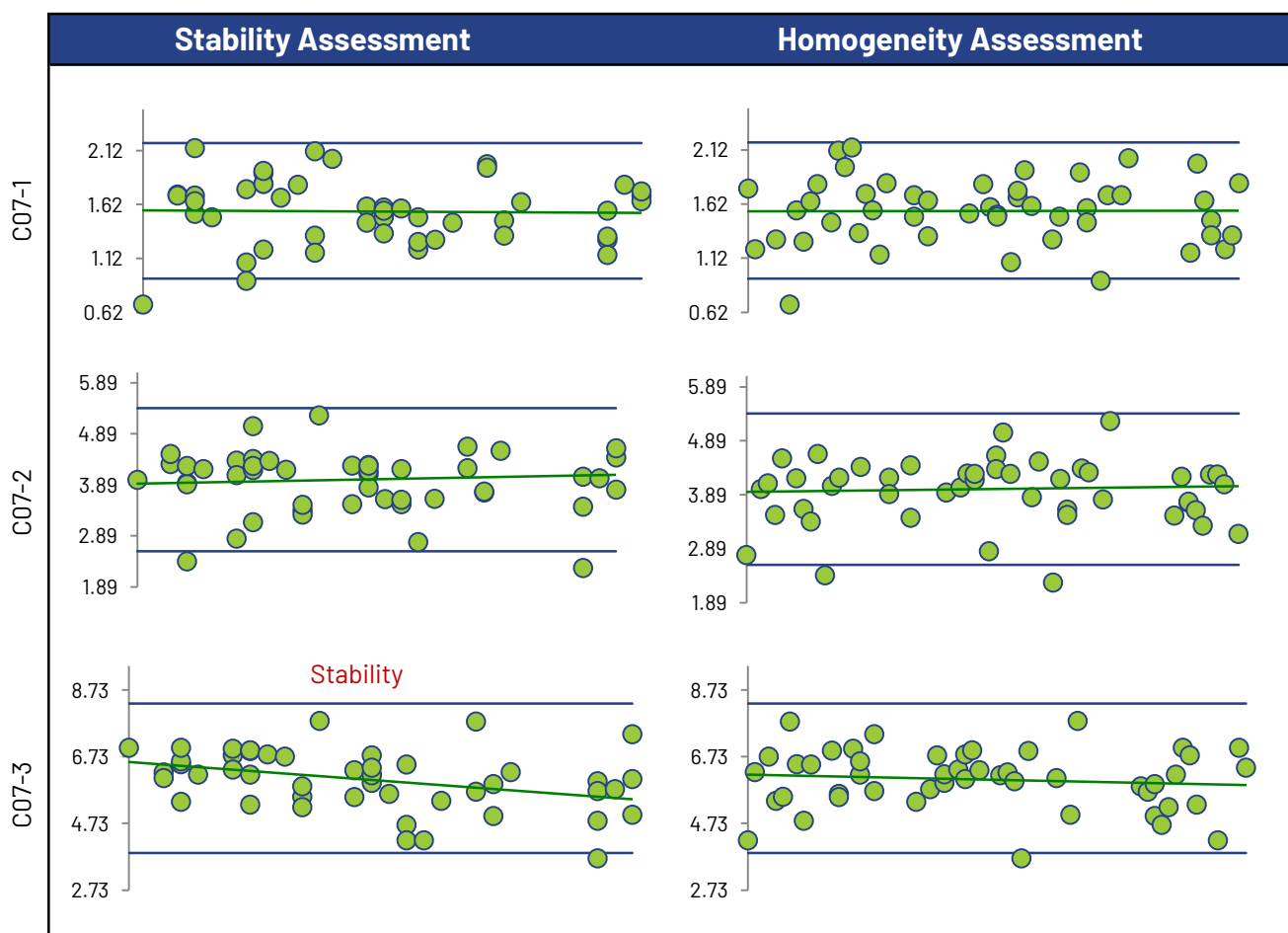
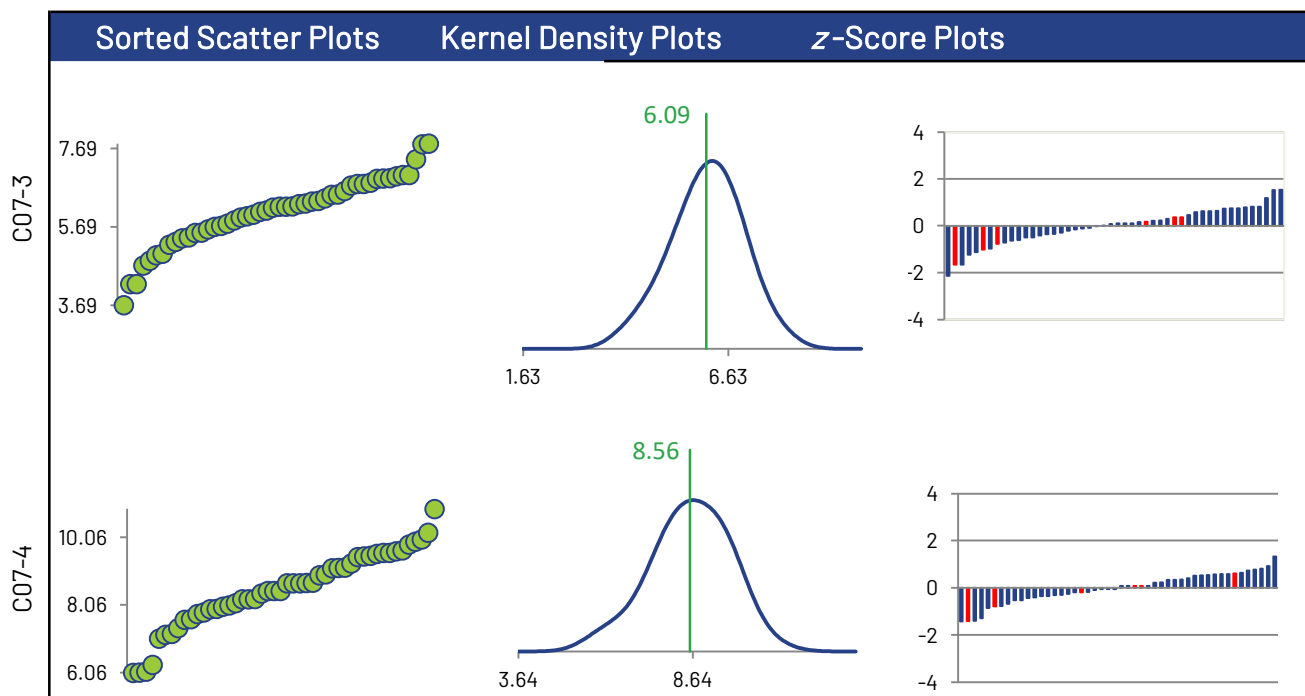
Method	C07-1	C07-2	C07-3	C07-4
GC/MS (Blue)	42	42	42	42
GC/MS/MS (Red)	6	6	6	6

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.

Pyrene



Pyrene

