

Test Group Summary Report

C71 Pesticides in Cannabis

March 2025 PT Round

Issued: May 9, 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 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.
$\pm u$:	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:

$$z - Score = \frac{(x - \bar{X})}{SDPA} \quad \text{where: } x = \text{participant result};$$

\bar{X} = the Assigned Value;
SDPA = the Standard Deviation for Proficiency Assessment.

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

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

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

3.2 COMPOSITE (PT) SCORE

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

Acceptable PT Scores equal or exceed 70.

3.3 IDENTIFYING BIAS

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

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

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

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

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

3.4 DEVIATIONS FROM EVALUATION PROCEDURE

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

4.0 PT Round Specific Data Summary

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

4.1 SUMMARY STATISTICS

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

4.2 z - SCORE PLOTS

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

4.3 KERNEL DENSITY PLOTS

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

4.4 STABILITY AND HOMOGENEITY PLOTS

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

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.

ACEPHATE

Summary Statistics

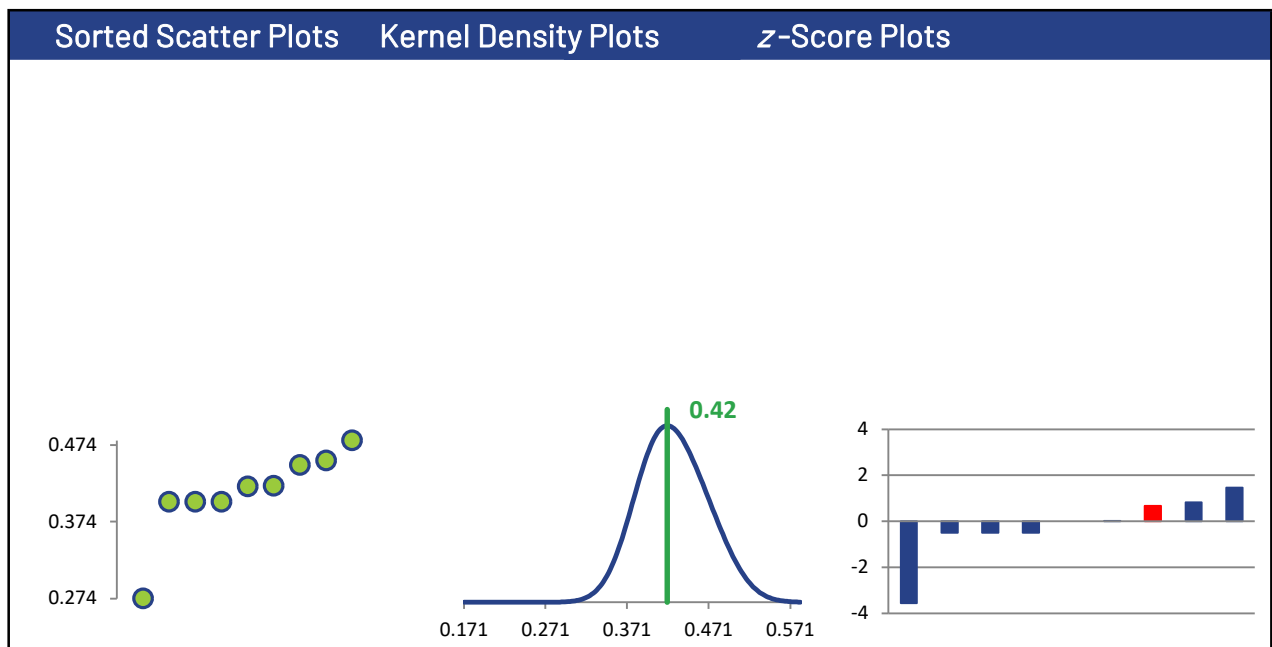
Not Spiked

Statistic	C71-1	C71-2	C71-3	C71-4
N	0	9	0	0
Median µg/g		0.420		
Robust Mean µg/g		0.420		
U µg/g		0.0171		
Robust Standard Deviation µg/g		0.0411		
Regression Standard Deviation µg/g				
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/g		0.0411		
Outliers	2	0	0	0
z >3.0	0	1	0	0
2< z <3	0	0	0	0

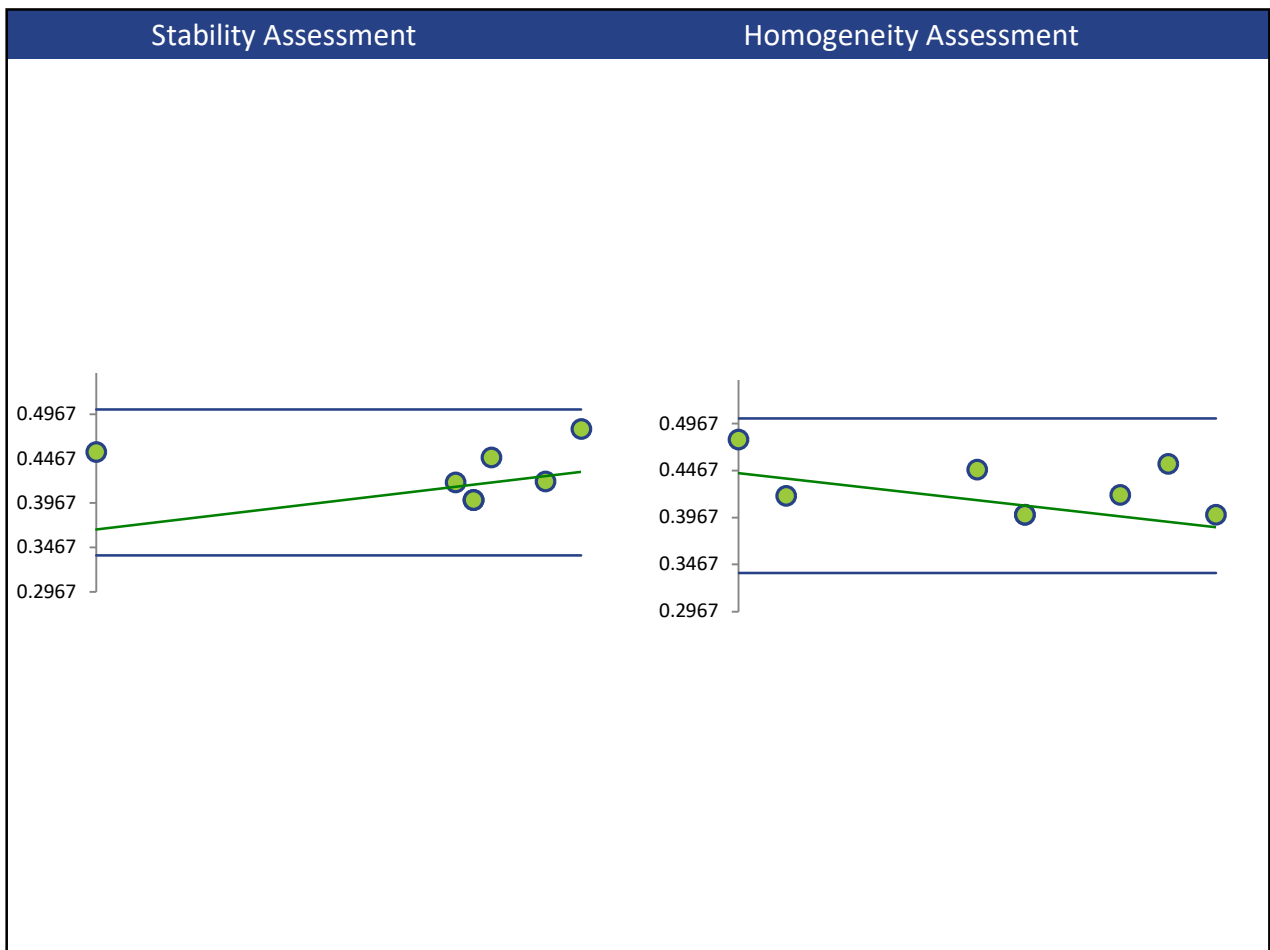
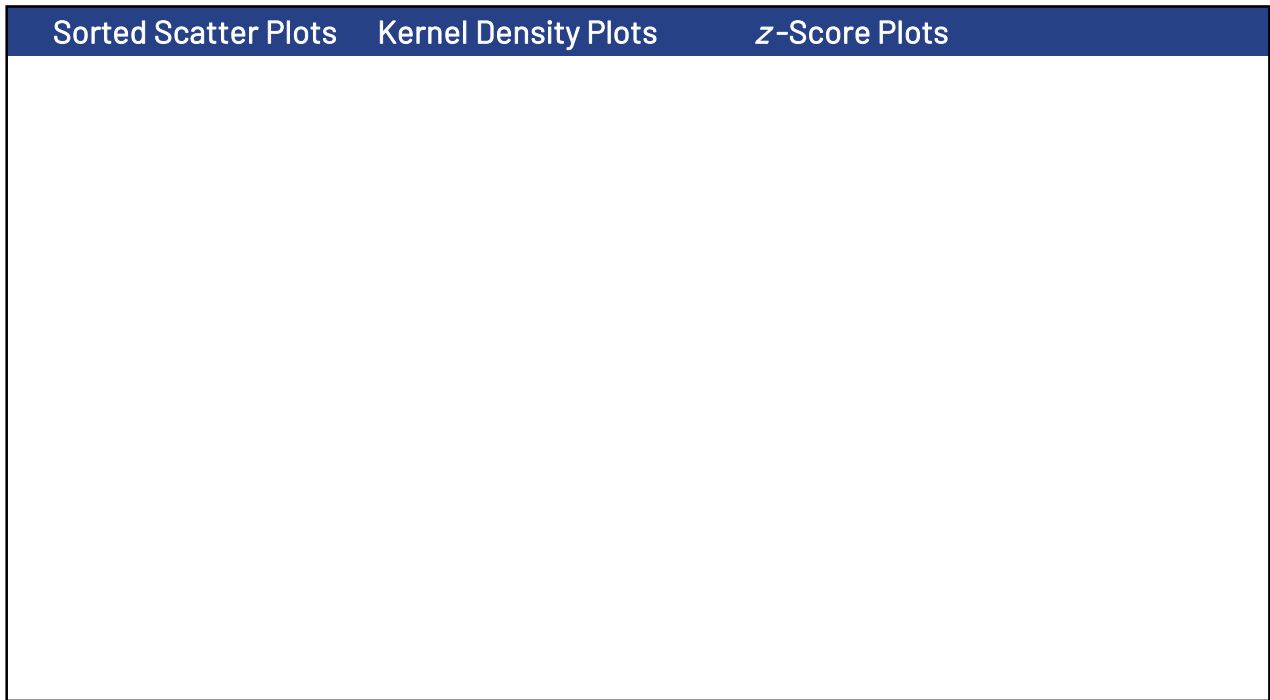
Methods Used

Method	C71-1	C71-2	C71-3	C71-4
LC-MS/MS (Blue)	0	8	0	0
LC/MS (Red)	0	1	0	0

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



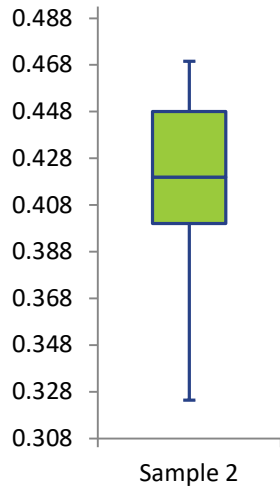
ACEPHATE



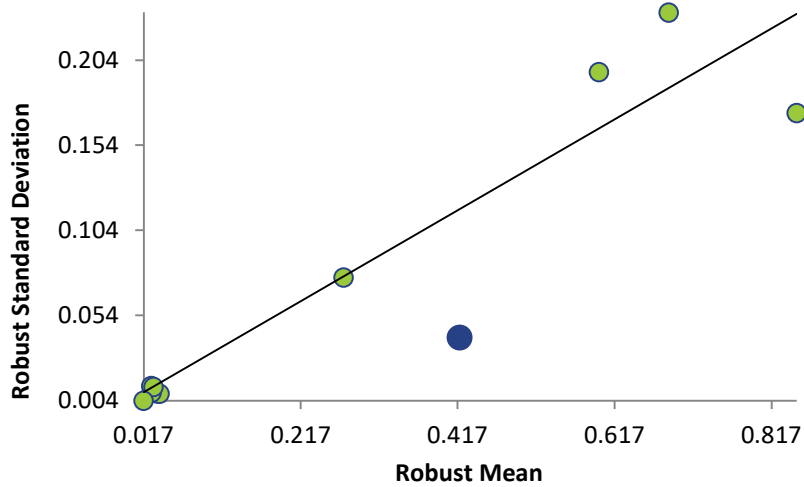
ACEPHATE

	Stability Assessment	Homogeneity Assessment
Sample 4		
	<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)



ALDICARB

Summary Statistics

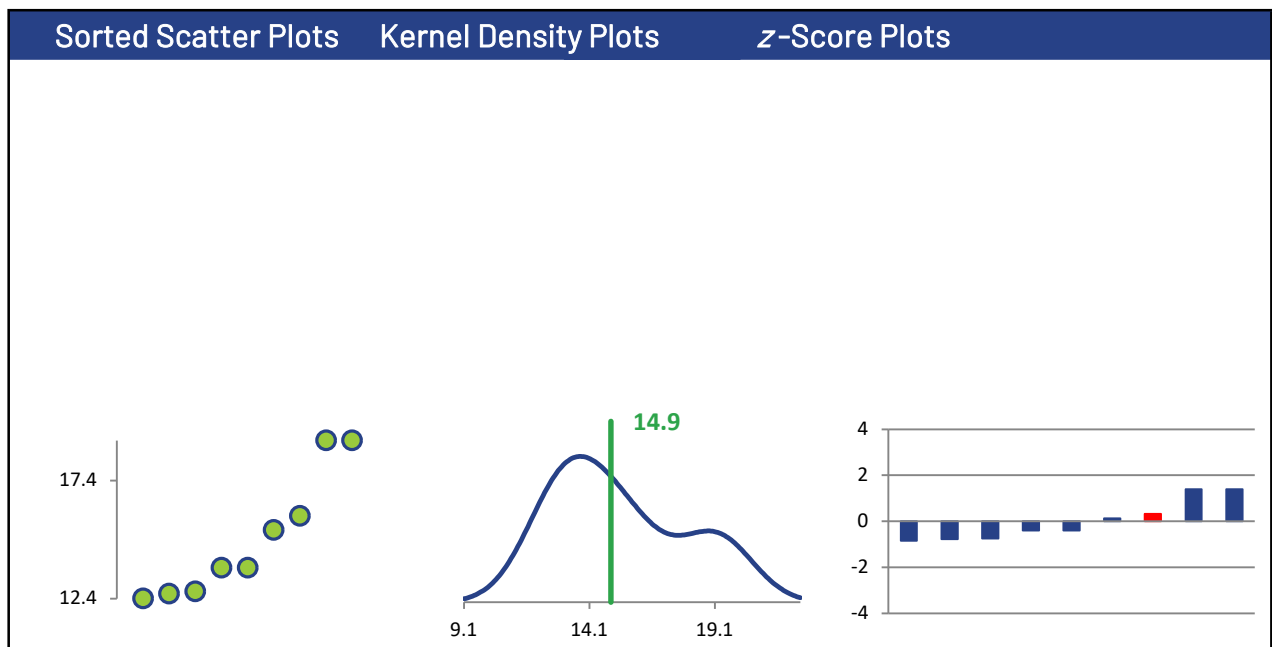
Not Spiked

Statistic	C71-1	C71-2	C71-3	C71-4
N	0	9	0	0
Median µg/g		13.7		
Robust Mean µg/g		14.9		
U µg/g		1.25		
Robust Standard Deviation µg/g		2.99		
Regression Standard Deviation µg/g				
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/g		2.99		
Outliers	2	0	0	0
z >3.0	0	0	0	0
2< z <3	0	0	0	0

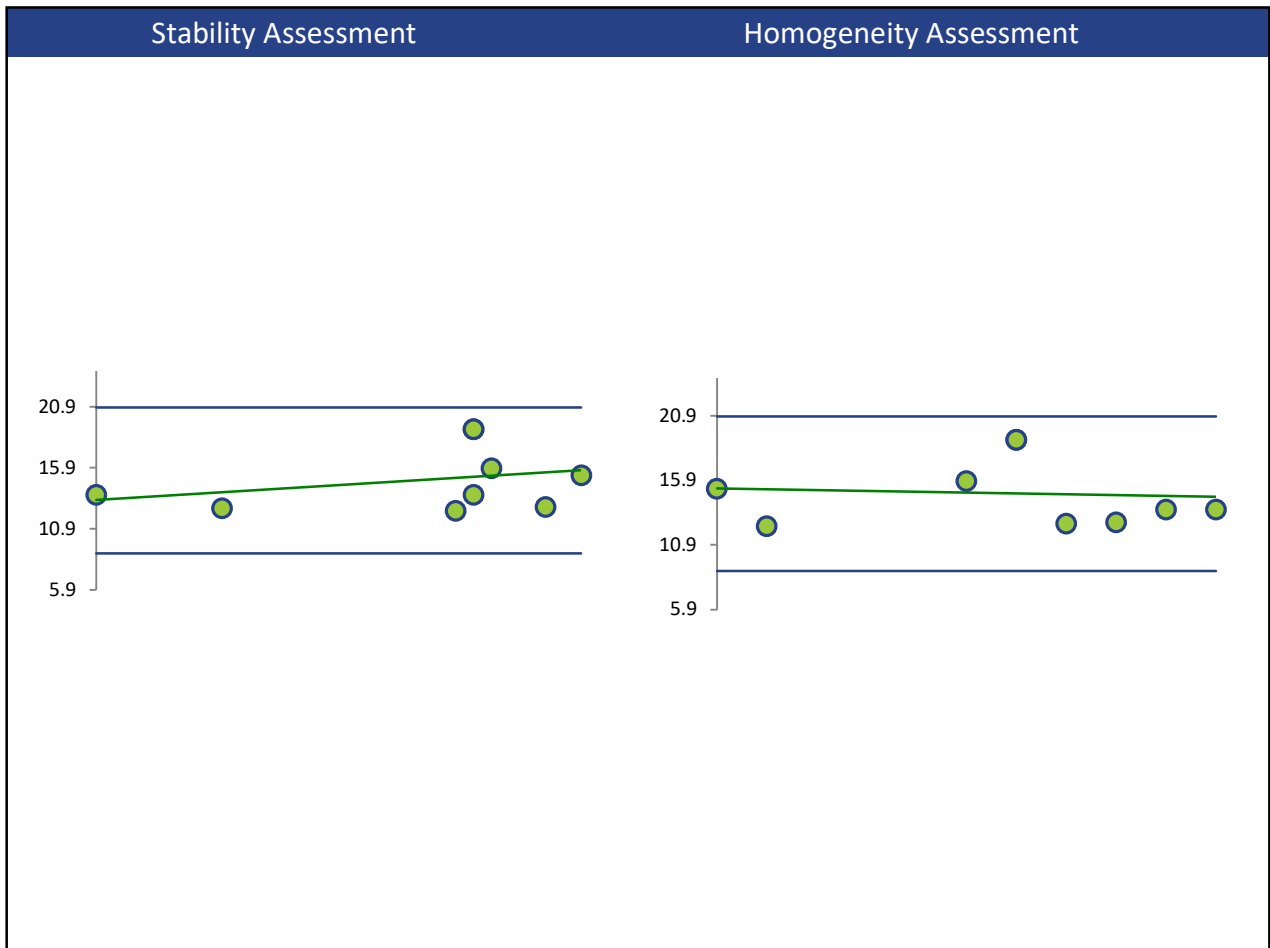
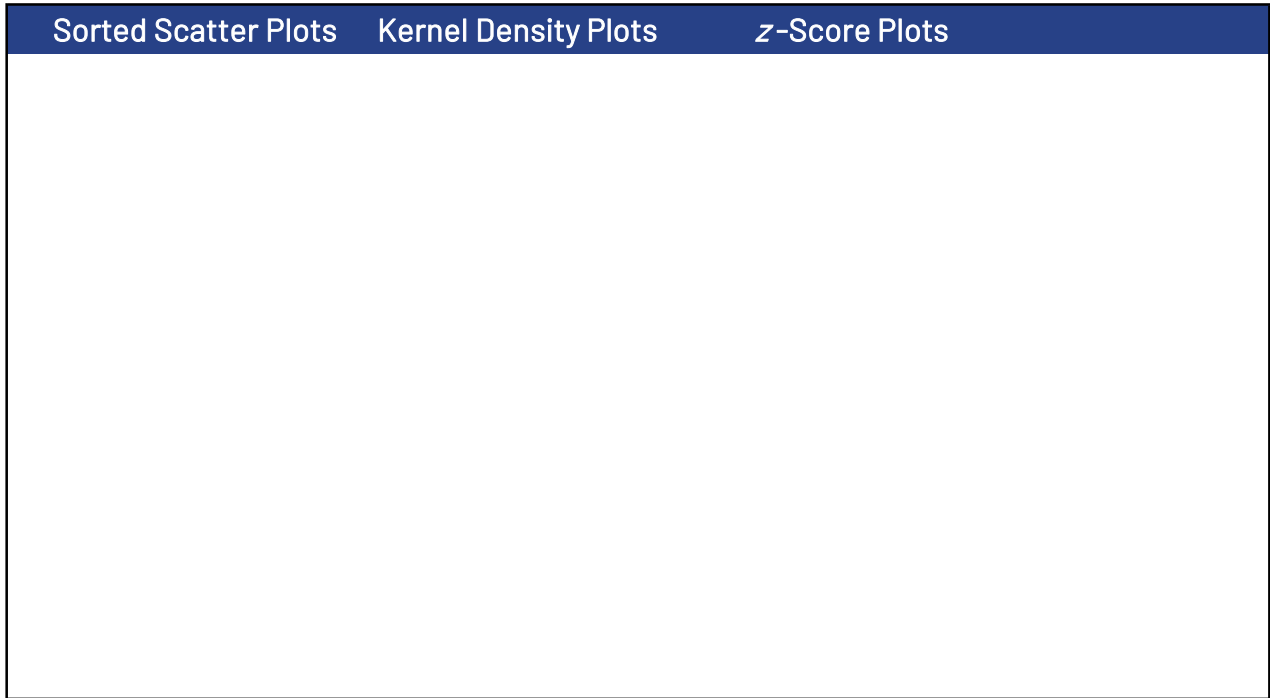
Methods Used

Method	C71-1	C71-2	C71-3	C71-4
LC-MS/MS (Blue)	0	8	0	0
LC/MS (Red)	0	1	0	0

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



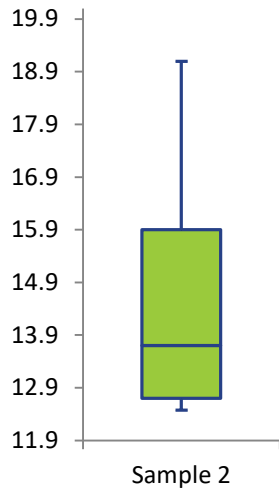
ALDICARB



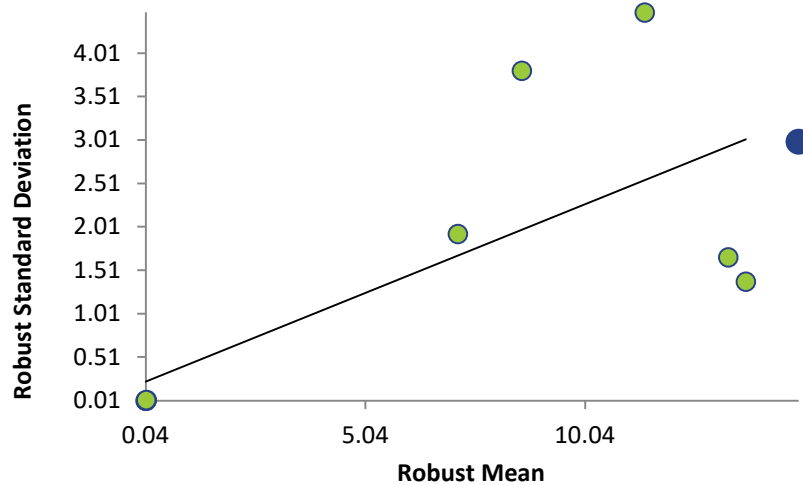
ALDICARB

	Stability Assessment	Homogeneity Assessment
Sample 4		
	<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)



AZOXYSTROBIN

Summary Statistics

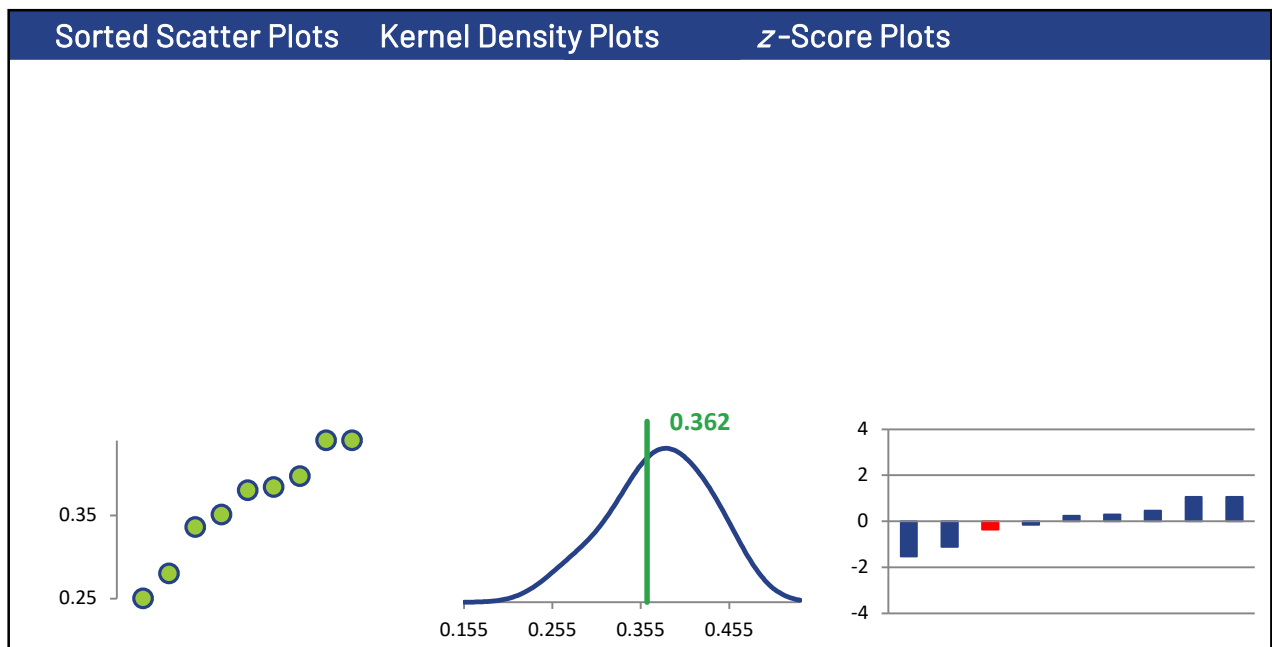
Not Spiked

Statistic	C71-1	C71-2	C71-3	C71-4
N	0	9	0	0
Median µg/g		0.380		
Robust Mean µg/g		0.362		
U µg/g		0.0308		
Robust Standard Deviation µg/g		0.0739		
Regression Standard Deviation µg/g				
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/g		0.0739		
Outliers	2	0	0	0
z >3.0	0	0	0	0
2< z <3	0	0	0	0

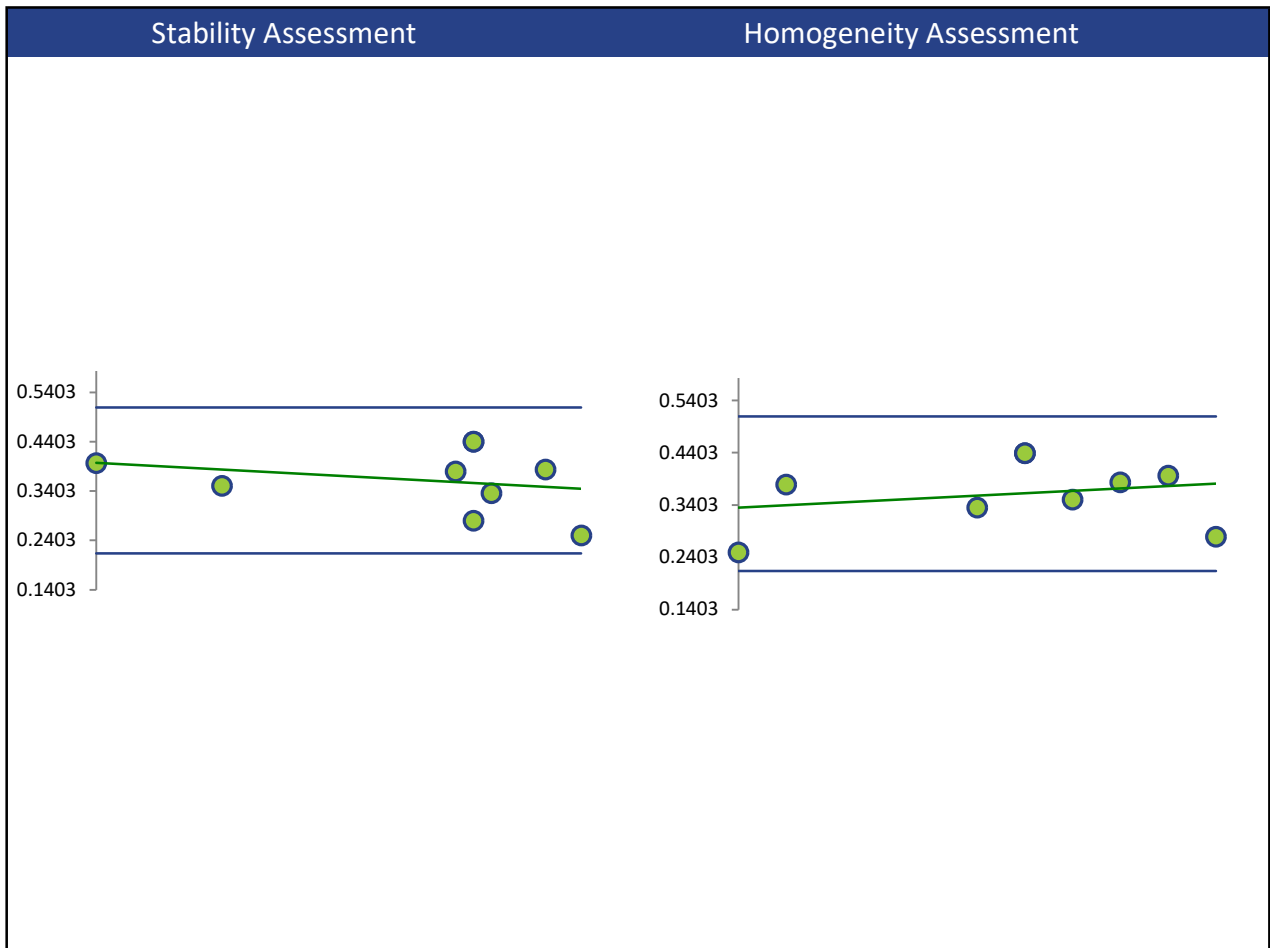
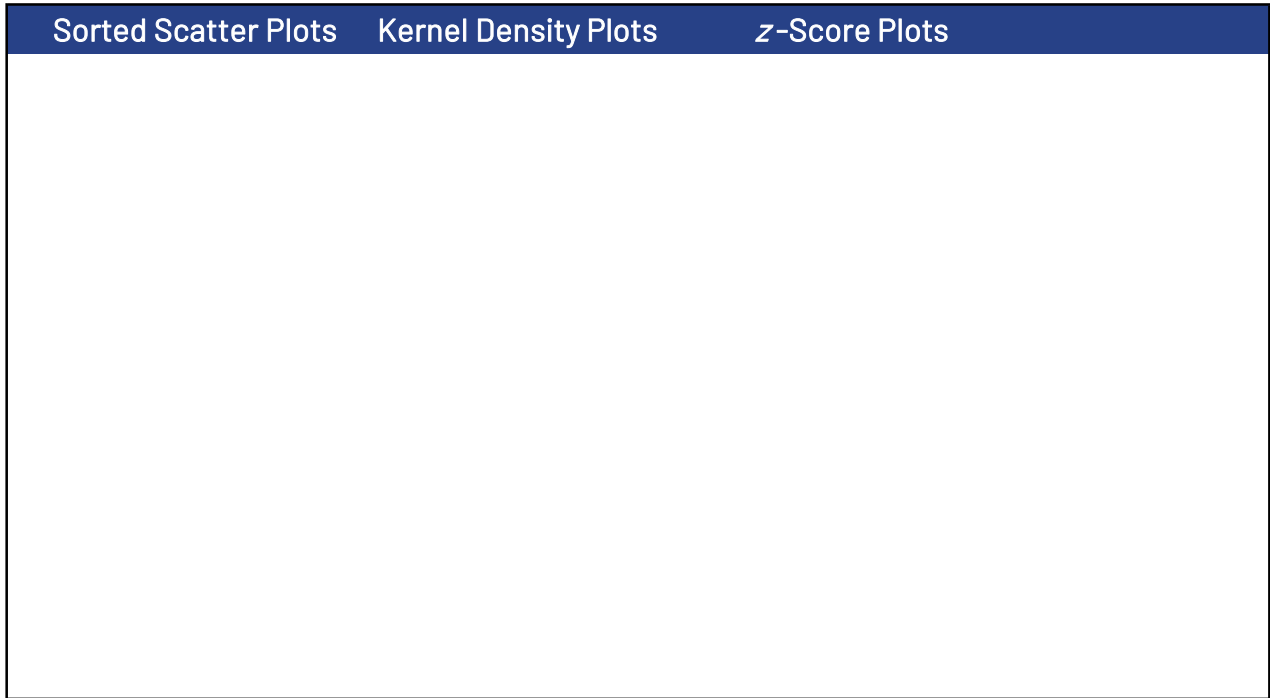
Methods Used

Method	C71-1	C71-2	C71-3	C71-4
LC-MS/MS (Blue)	0	8	0	0
LC/MS (Red)	0	1	0	0

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



AZOXYSTROBIN



AZOXYSTROBIN

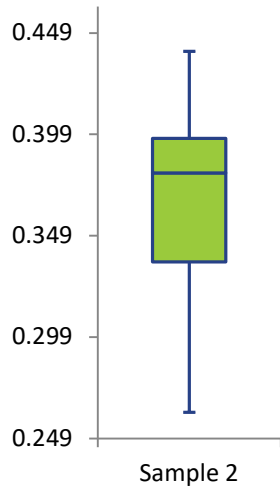
Stability Assessment Homogeneity Assessment

Sample 4

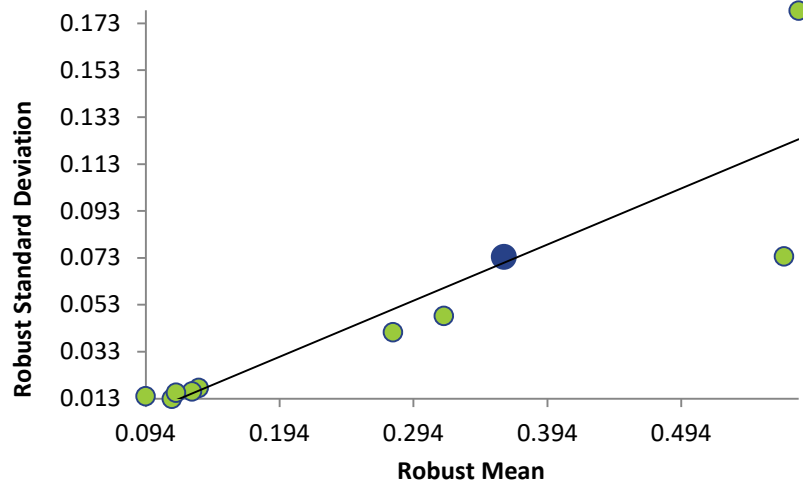
Stability assessments are regression analysis of reported result against date of analysis.

Homogeneity assessments are regression analysis of reported result against bottling order.

Box and Whisker Plots



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



BIFENAZATE

Summary Statistics

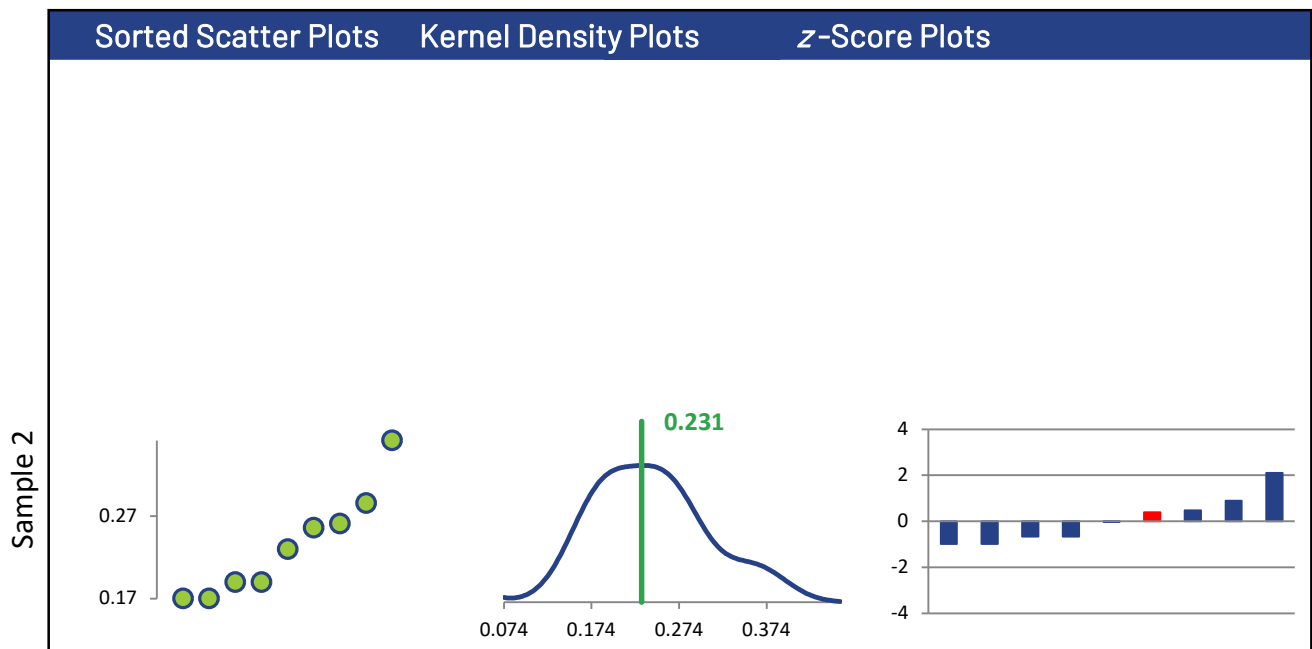
Not Spiked

Statistic	C71-1	C71-2	C71-3	C71-4
N	0	9	0	0
Median µg/g		0.230		
Robust Mean µg/g		0.231		
U µg/g		0.0259		
Robust Standard Deviation µg/g		0.0621		
Regression Standard Deviation µg/g				
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/g		0.0621		
Outliers	2	0	0	0
z >3.0	0	0	0	0
2< z <3	0	1	0	0

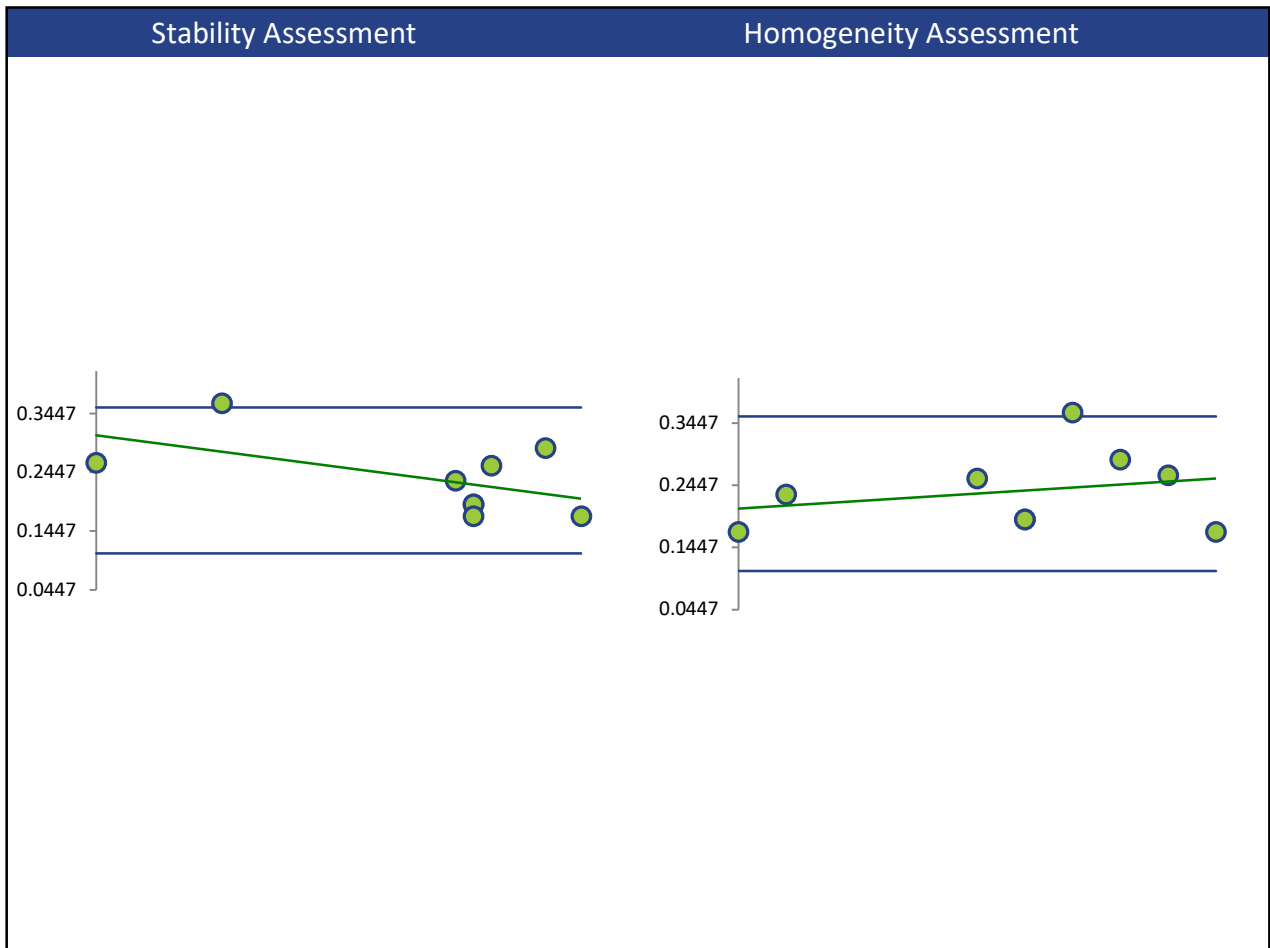
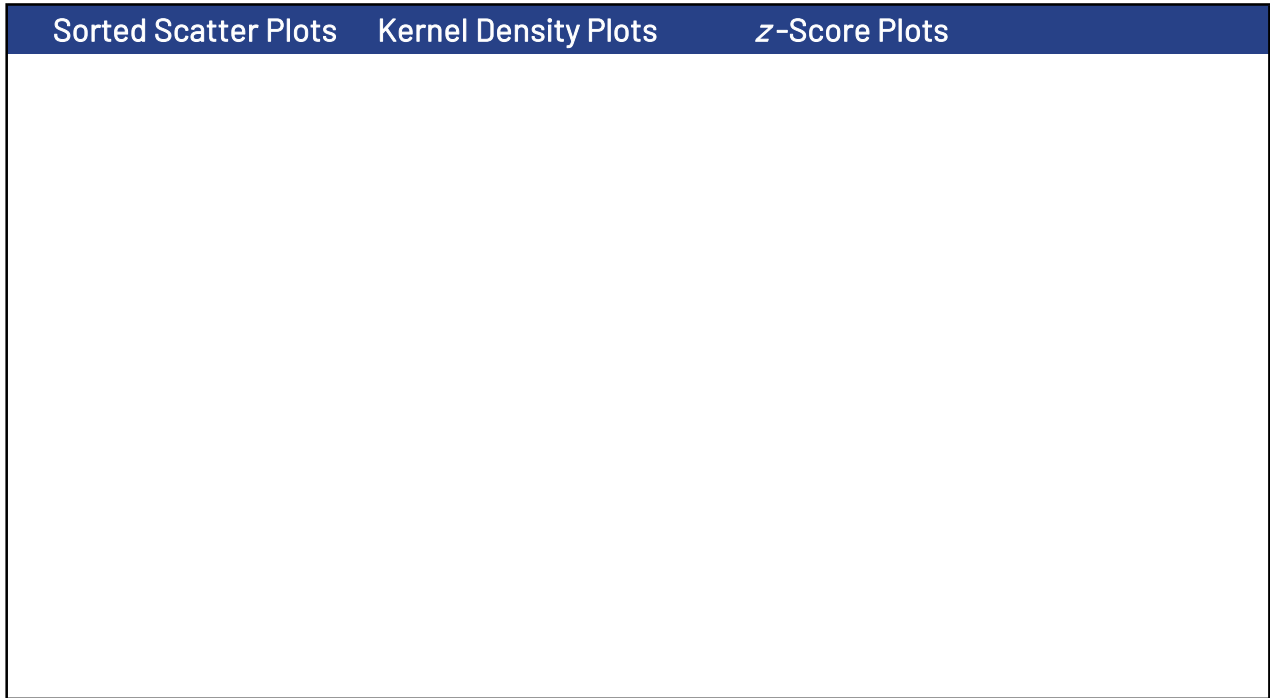
Methods Used

Method	C71-1	C71-2	C71-3	C71-4
LC-MS/MS (Blue)	0	8	0	0
LC/MS (Red)	0	1	0	0

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



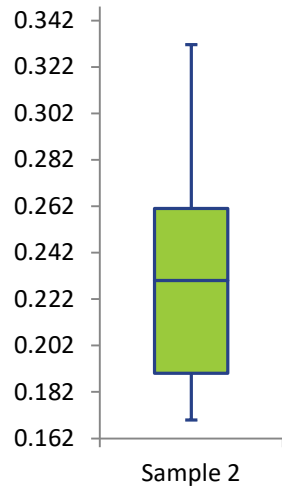
BIFENAZATE



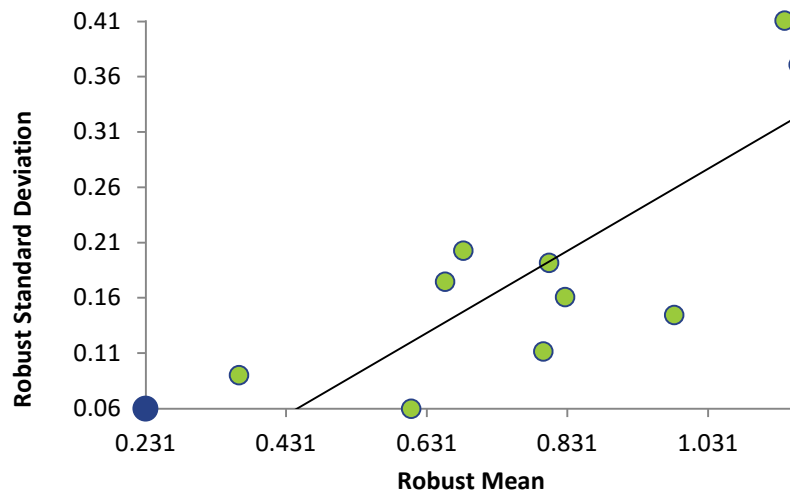
BIFENAZATE

	Stability Assessment	Homogeneity Assessment
Sample 4		
	<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)



BOSCALID

Summary Statistics

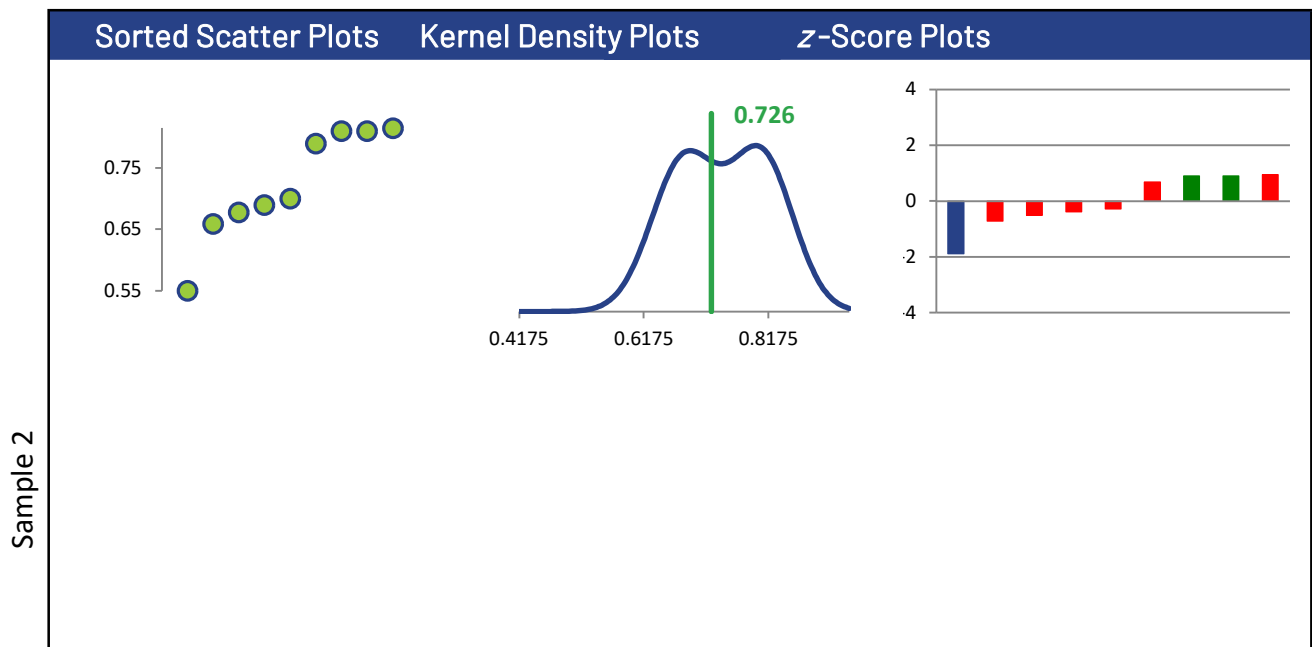
Not Spiked

Statistic	C71-1	C71-2	C71-3	C71-4
N	9	0	0	0
Median µg/g	0.700			
Robust Mean µg/g	0.726			
U µg/g	0.0390			
Robust Standard Deviation µg/g	0.0936			
Regression Standard Deviation µg/g				
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/g	0.0936			
Outliers	0	2	0	0
z >3.0	0	0	0	0
2< z <3	0	0	0	0

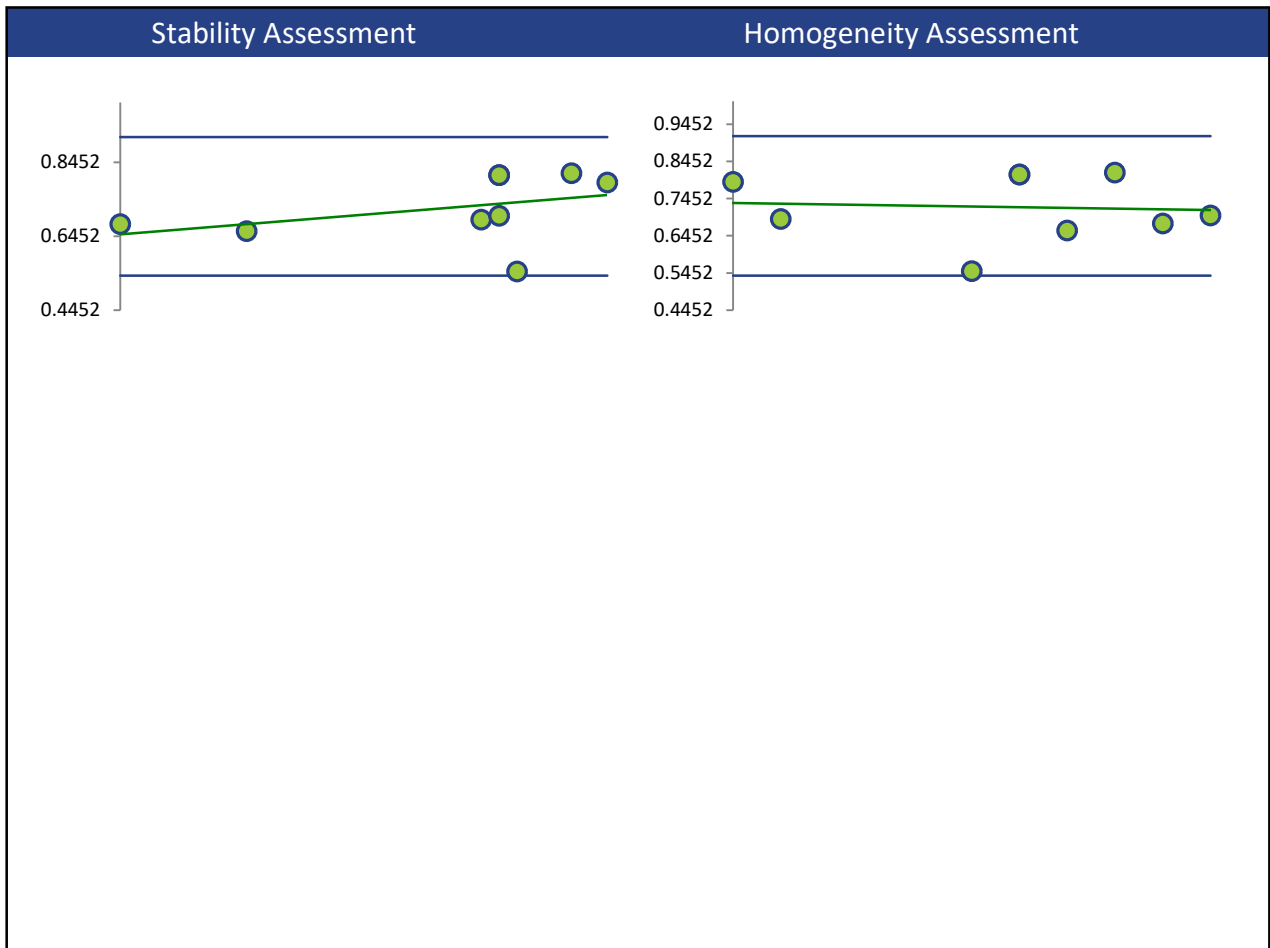
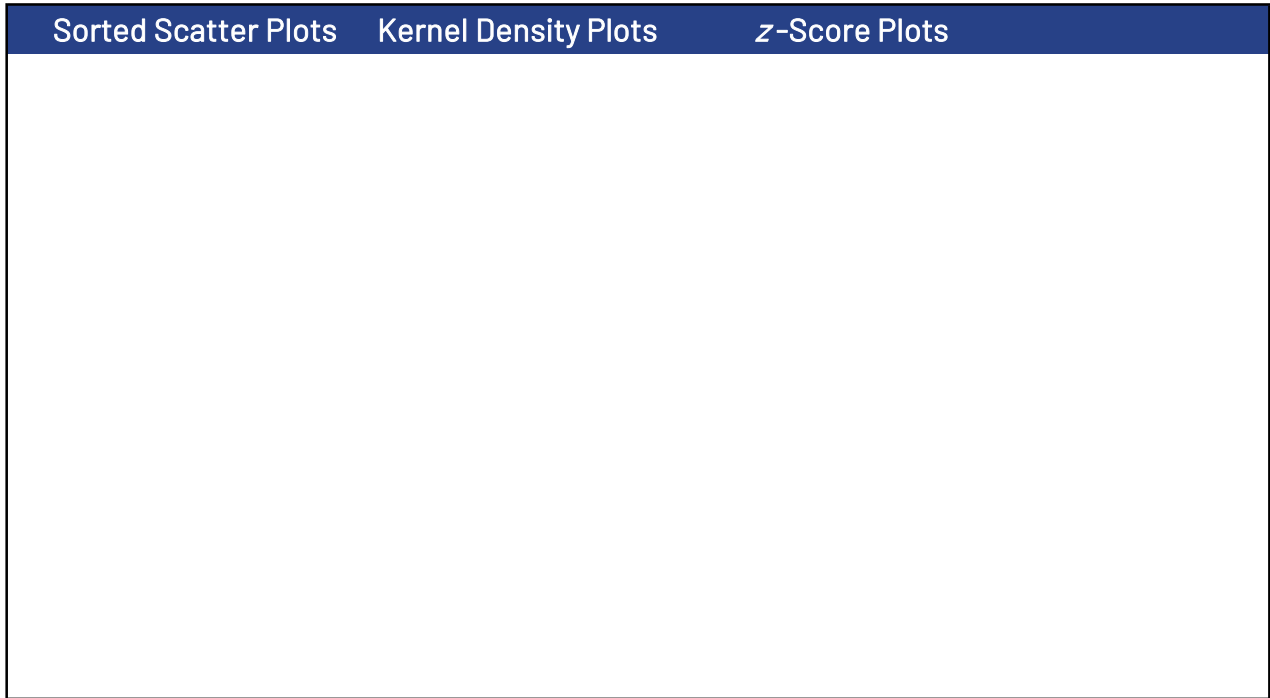
Methods Used

Method	C71-1	C71-2	C71-3	C71-4
LC/MS (Blue)	1	0	0	0
LC-MS/MS (Red)	6	0	0	0
GC/MS/MS (Green)	2	0	0	0

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



BOSCALID



BOSCALID

Stability Assessment Homogeneity Assessment

Sample 4

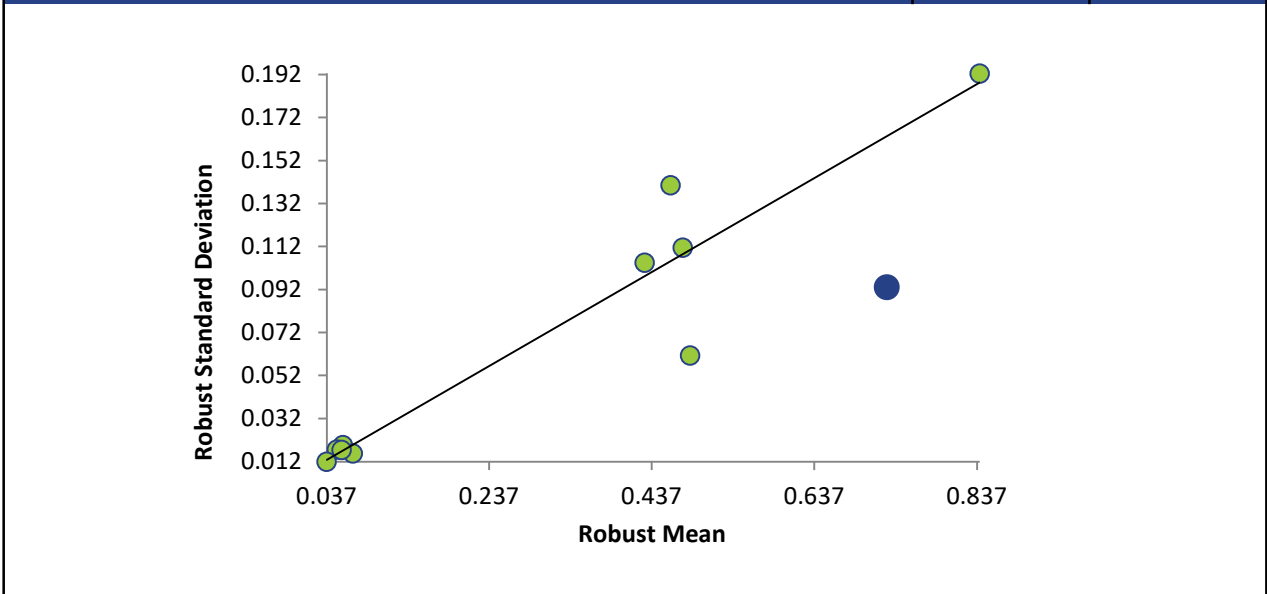
Stability assessments are regression analysis of reported result against date of analysis.

Homogeneity assessments are regression analysis of reported result against bottling order.

Box and Whisker Plots



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



CARBARYL

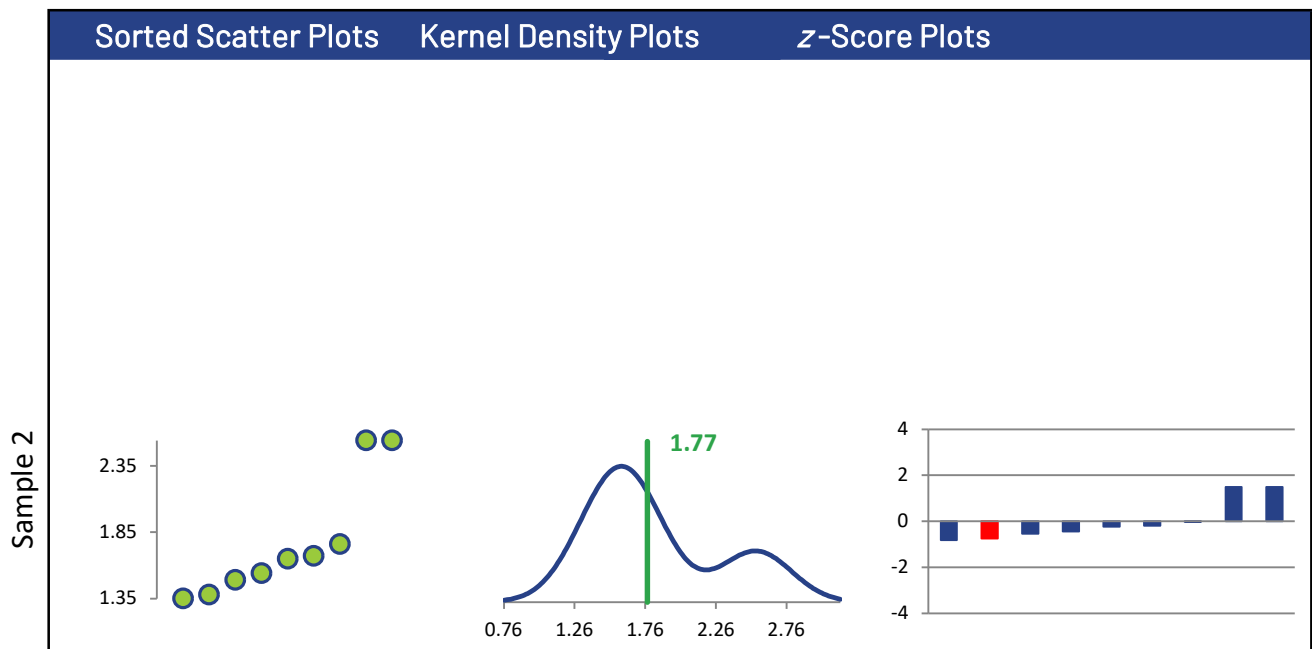
Summary Statistics Not Spiked

Statistic	C71-1	C71-2	C71-3	C71-4
N	0	9	0	0
Median µg/g		1.65		
Robust Mean µg/g		1.77		
U µg/g		0.216		
Robust Standard Deviation µg/g		0.518		
Regression Standard Deviation µg/g				
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/g		0.518		
Outliers	2	0	0	0
z >3.0	0	0	0	0
2< z <3	0	0	0	0

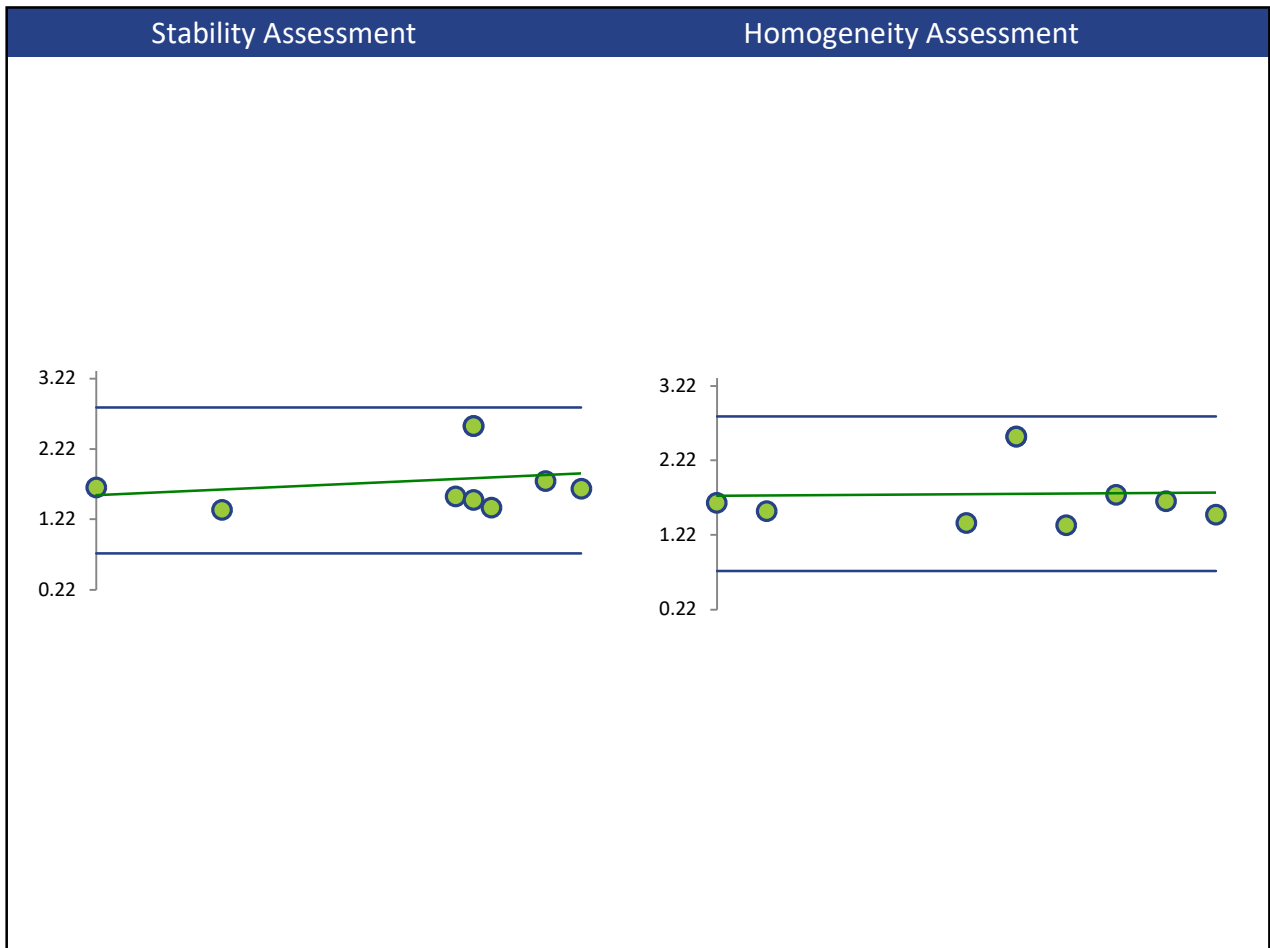
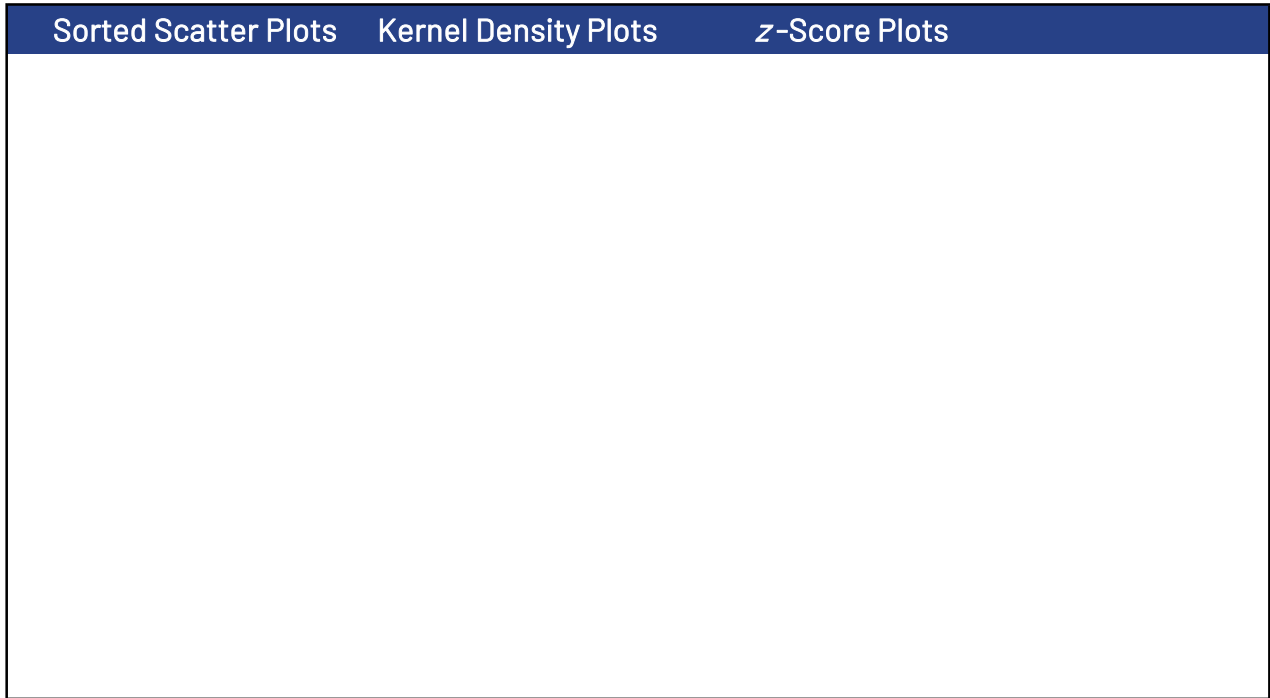
Methods Used

Method	C71-1	C71-2	C71-3	C71-4
LC-MS/MS (Blue)	0	8	0	0
LC/MS (Red)	0	1	0	0

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



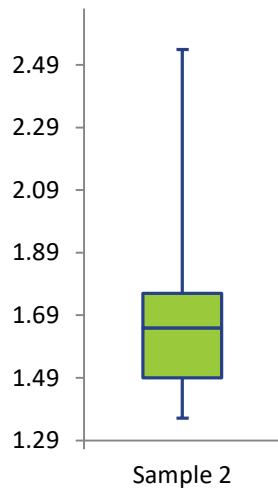
CARBARYL



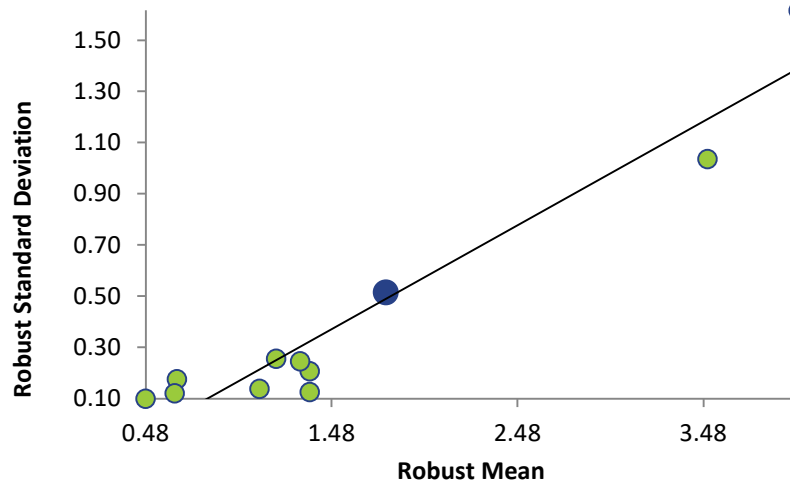
CARBARYL

	Stability Assessment	Homogeneity Assessment
Sample 4		
	<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)



CARBOFURAN

Summary Statistics

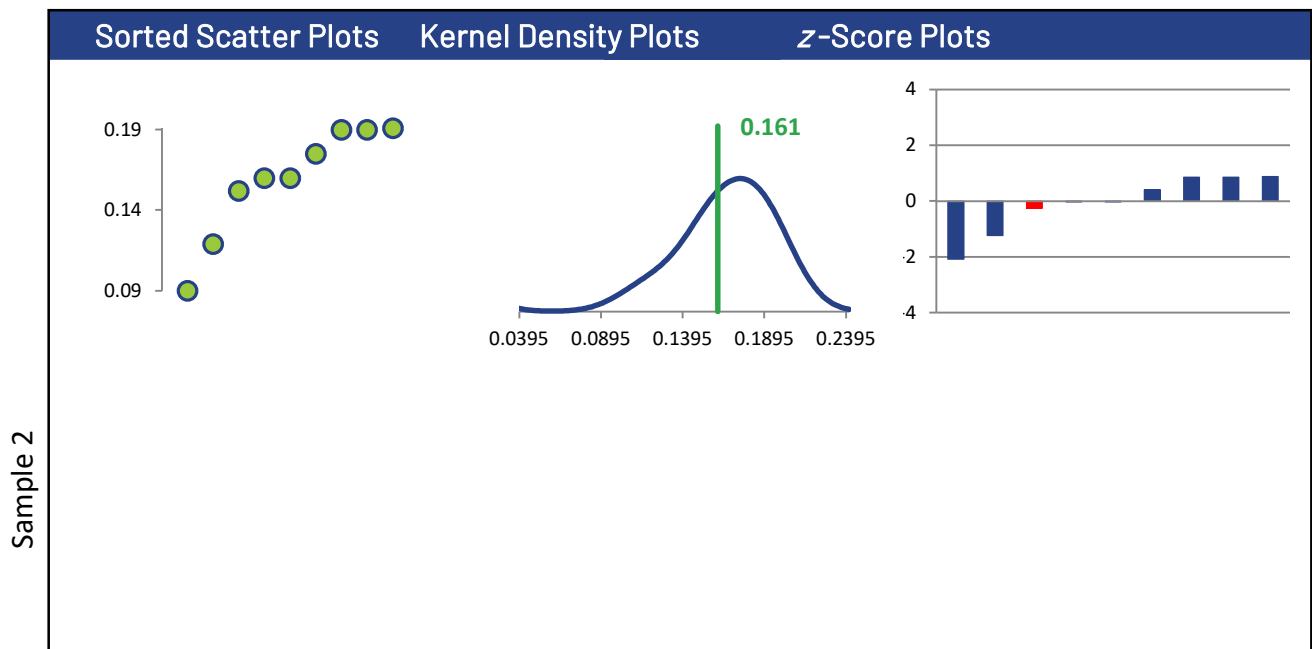
Not Spiked

Statistic	C71-1	C71-2	C71-3	C71-4
N	9	0	0	0
Median µg/g	0.160			
Robust Mean µg/g	0.161			
U µg/g	0.0143			
Robust Standard Deviation µg/g	0.0342			
Regression Standard Deviation µg/g				
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/g	0.0342			
Outliers	0	2	0	0
z >3.0	0	0	0	0
2< z <3	1	0	0	0

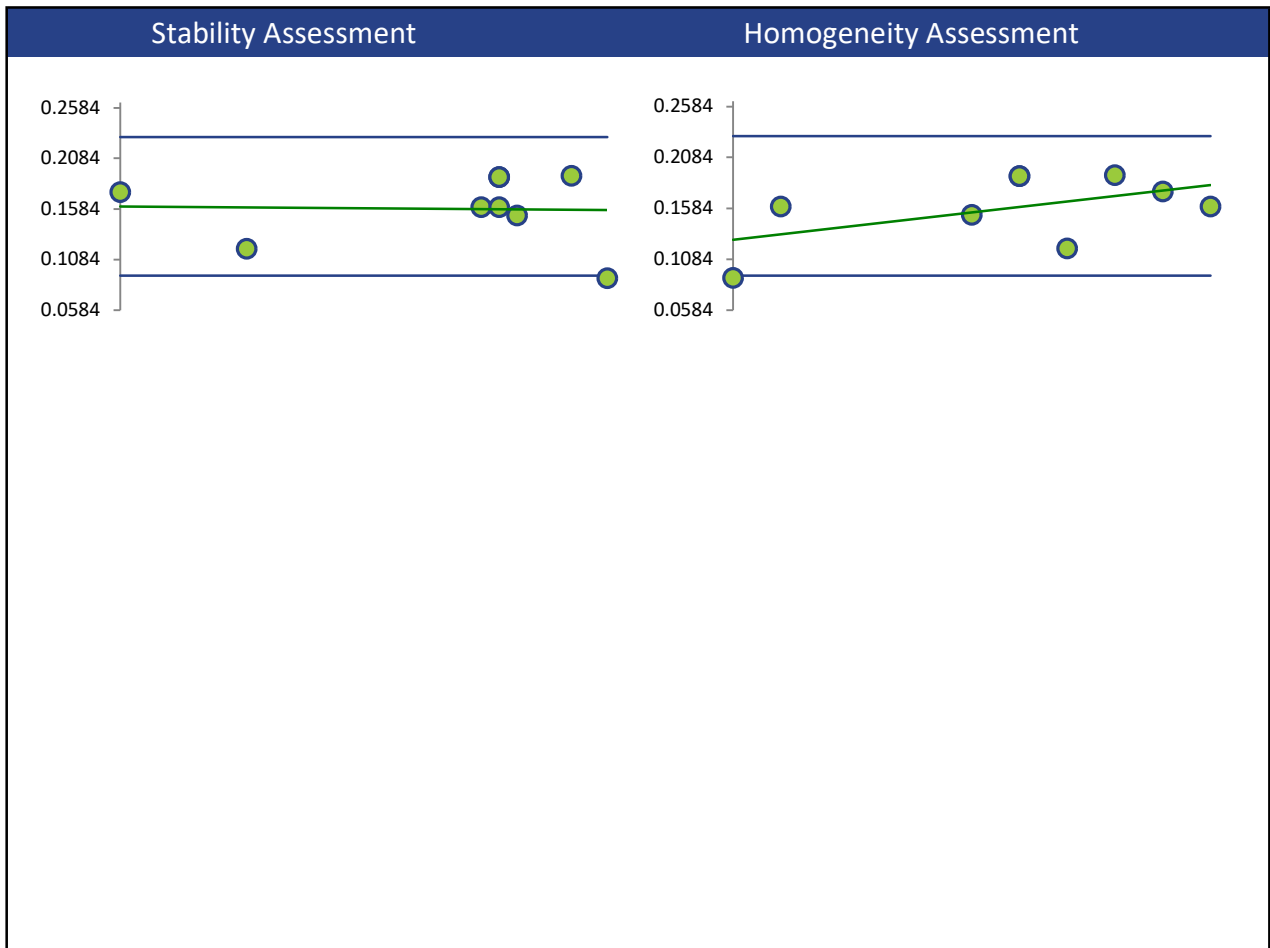
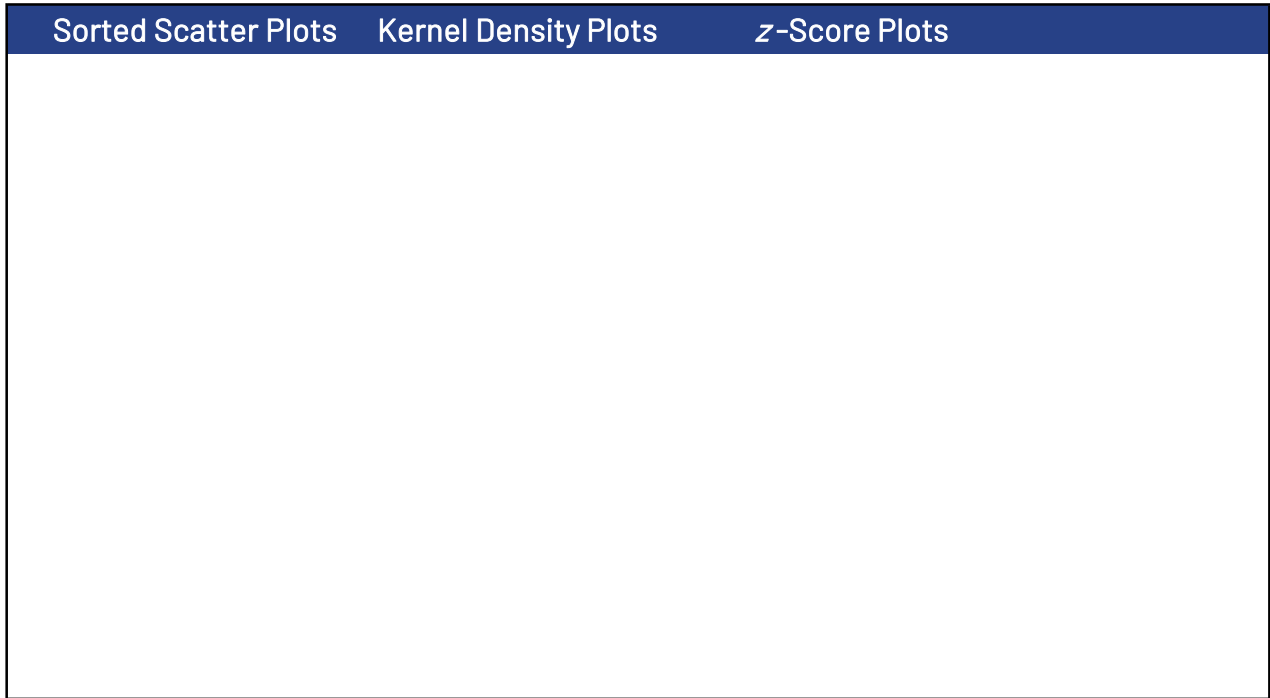
Methods Used

Method	C71-1	C71-2	C71-3	C71-4
LC-MS/MS (Blue)	8	0	0	0
LC/MS (Red)	1	0	0	0

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



CARBOFURAN



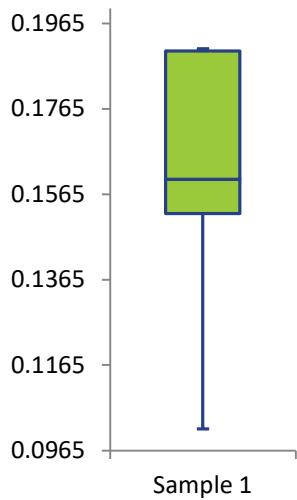
CARBOFURAN

	Stability Assessment	Homogeneity Assessment
Sample 4		

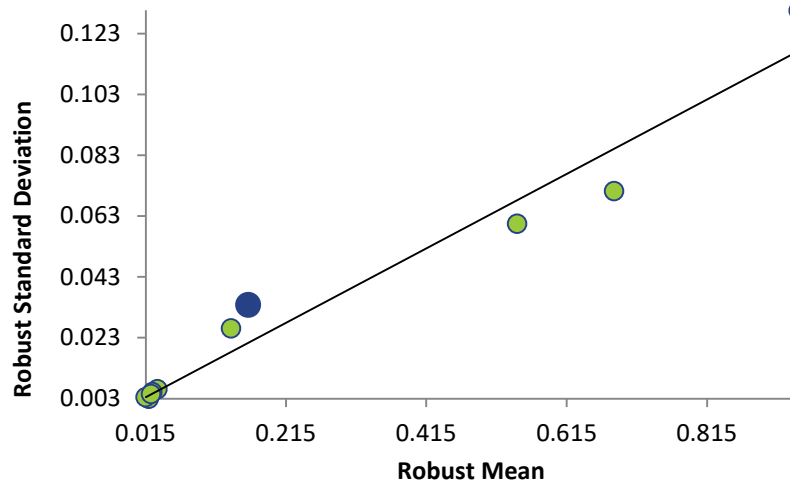
Stability assessments are regression analysis of reported result against date of analysis.

Homogeneity assessments are regression analysis of reported result against bottling order.

Box and Whisker Plots



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



DIAZINON

Summary Statistics

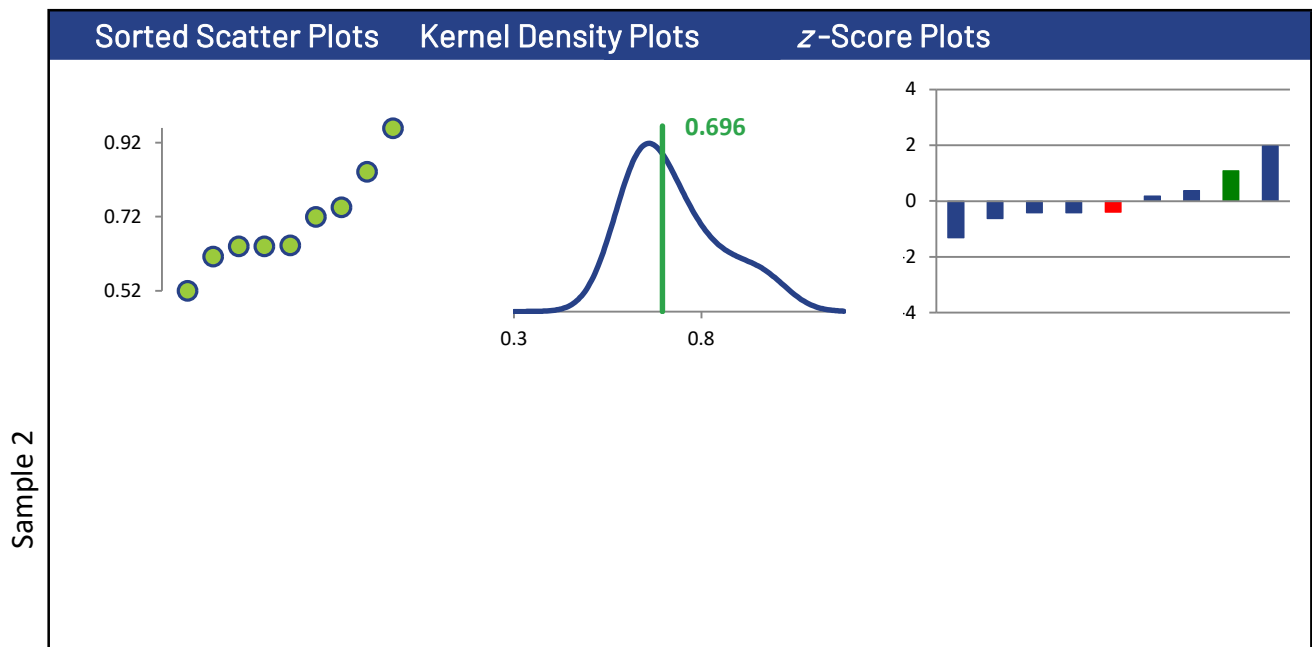
Not Spiked

Statistic	C71-1	C71-2	C71-3	C71-4
N	9	0	0	0
Median µg/g	0.643			
Robust Mean µg/g	0.696			
U µg/g	0.0558			
Robust Standard Deviation µg/g	0.134			
Regression Standard Deviation µg/g				
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/g	0.134			
Outliers	0	2	0	0
z >3.0	0	0	0	0
2< z <3	0	0	0	0

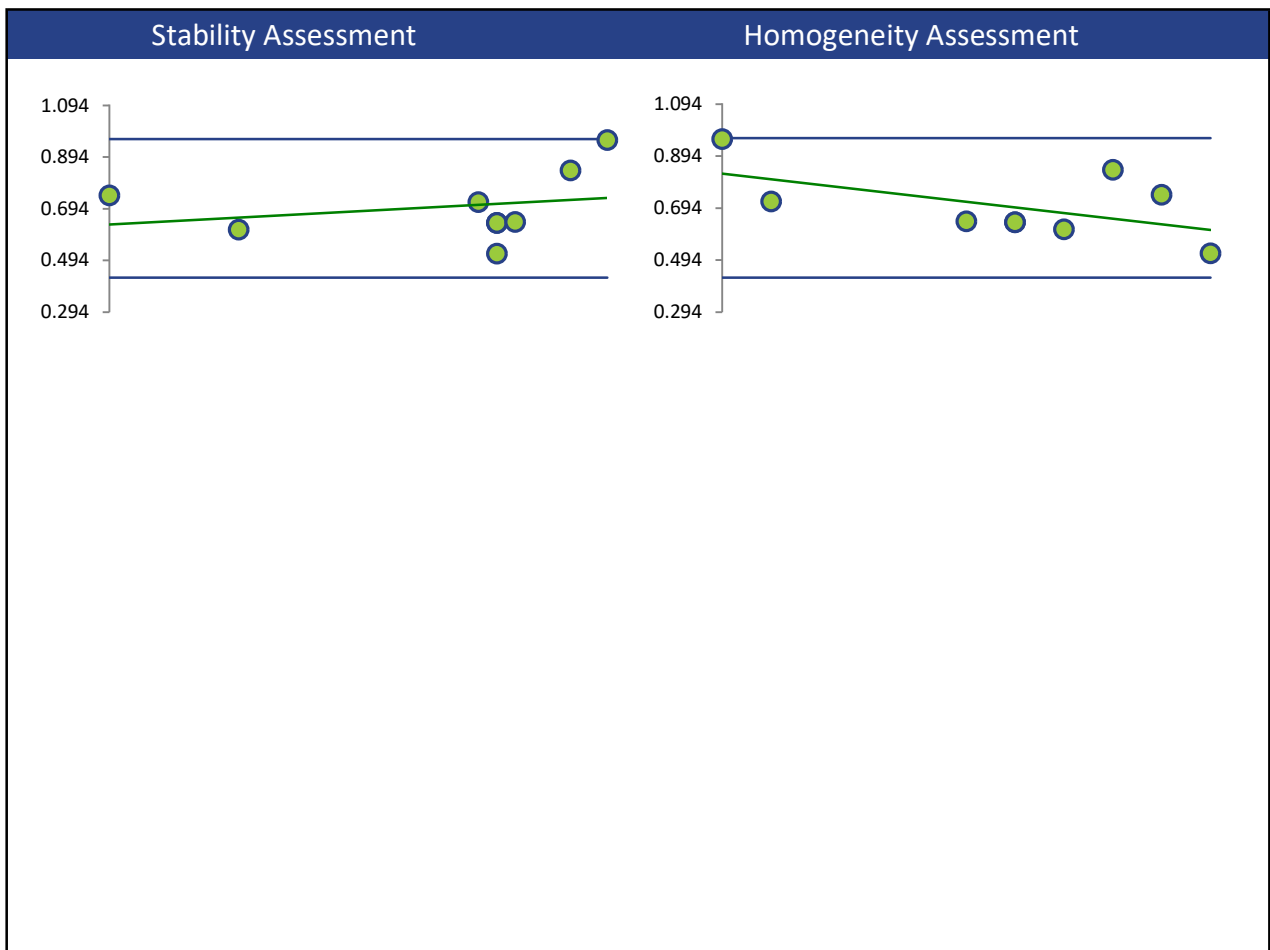
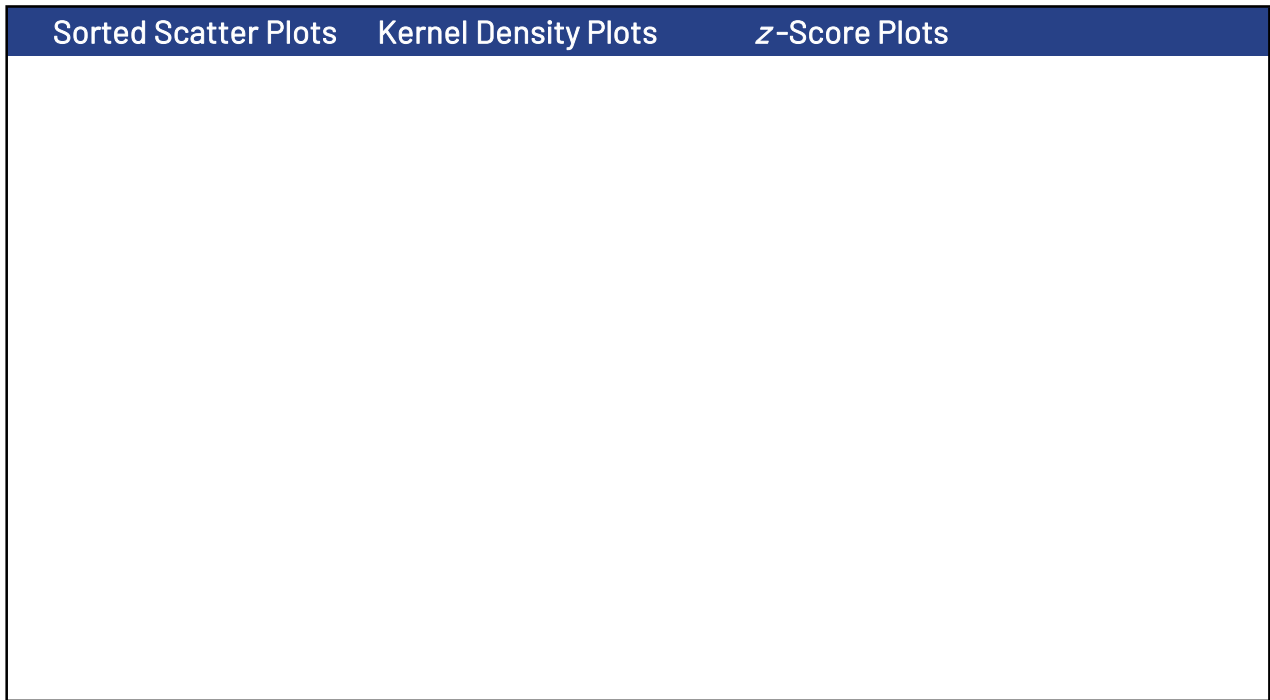
Methods Used

Method	C71-1	C71-2	C71-3	C71-4
LC-MS/MS (Blue)	7	0	0	0
LC/MS (Red)	1	0	0	0
GC/MS/MS (Green)	1	0	0	0

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



DIAZINON



DIAZINON

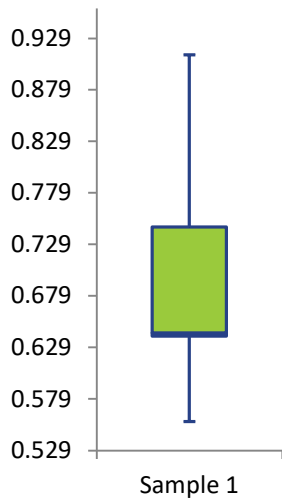
Stability Assessment Homogeneity Assessment

Sample 4

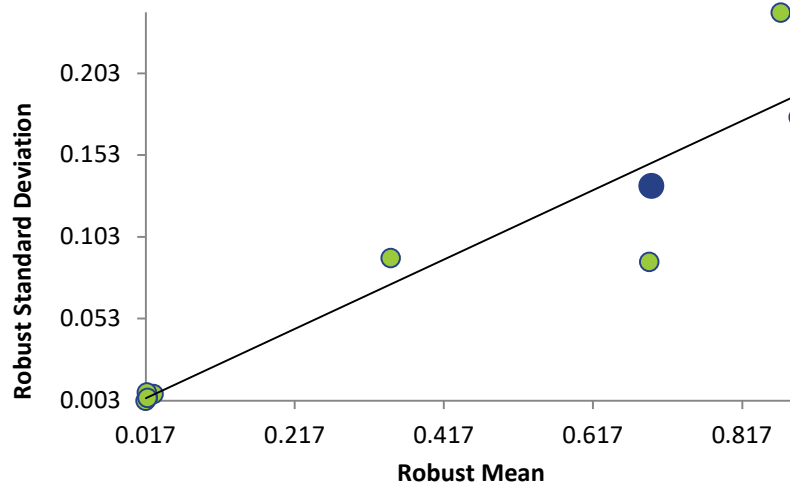
Stability assessments are regression analysis of reported result against date of analysis.

Homogeneity assessments are regression analysis of reported result against bottling order.

Box and Whisker Plots



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



DICHLORVOS (DDVP)

Summary Statistics

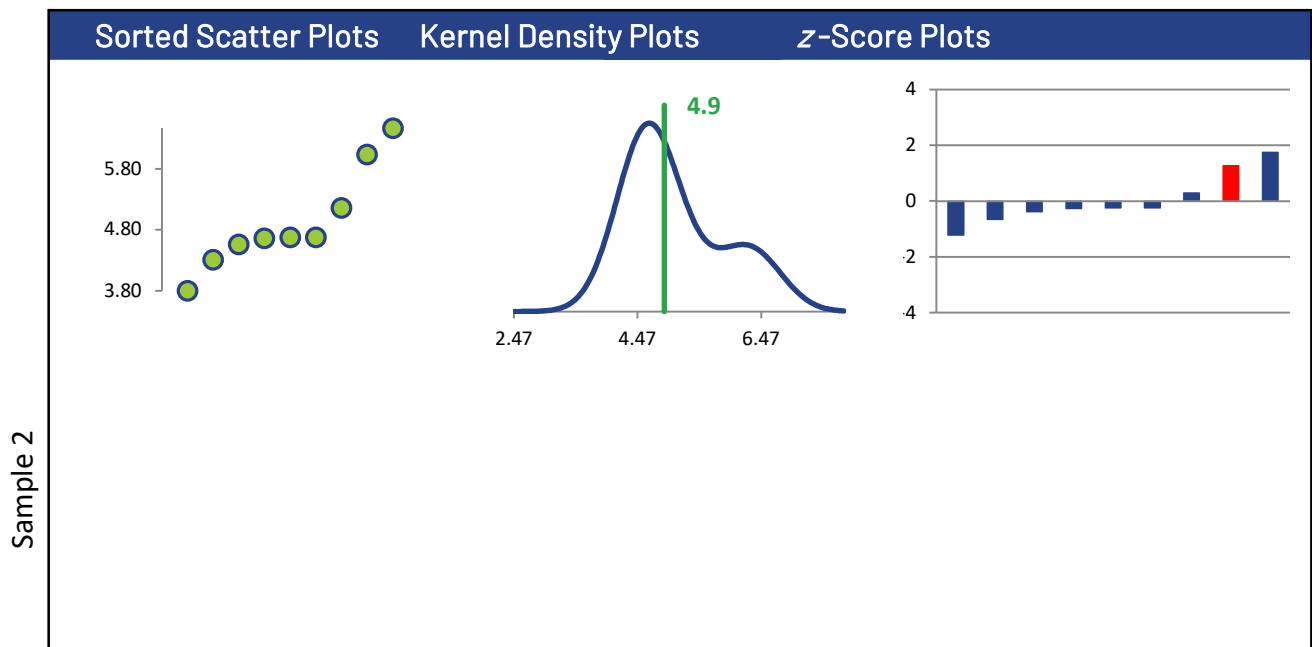
Not Spiked

Statistic	C71-1	C71-2	C71-3	C71-4
N	9	0	0	0
Median µg/g	4.68			
Robust Mean µg/g	4.90			
U µg/g	0.375			
Robust Standard Deviation µg/g	0.899			
Regression Standard Deviation µg/g				
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/g	0.899			
Outliers	0	2	0	0
z >3.0	0	0	0	0
2< z <3	0	0	0	0

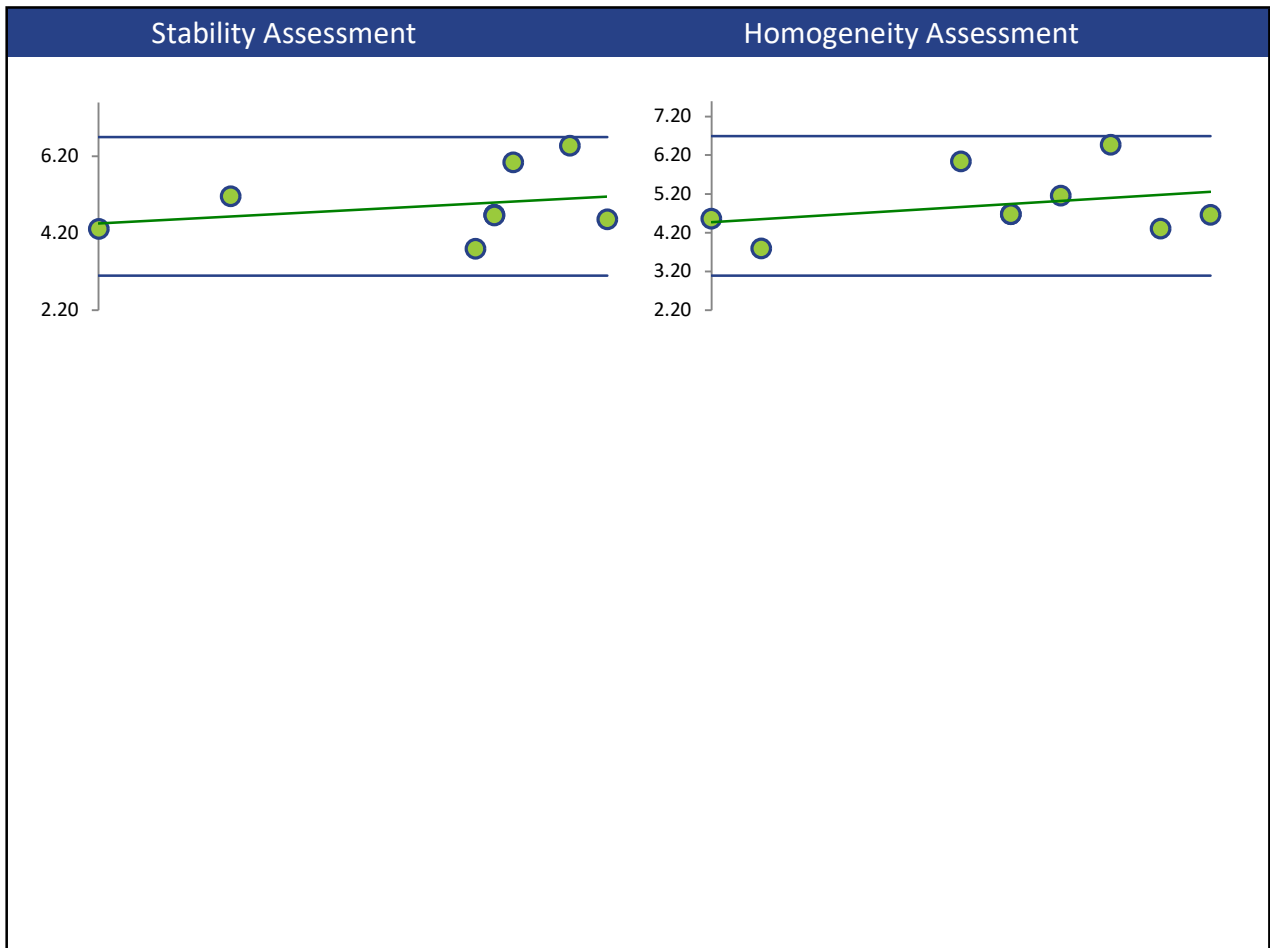
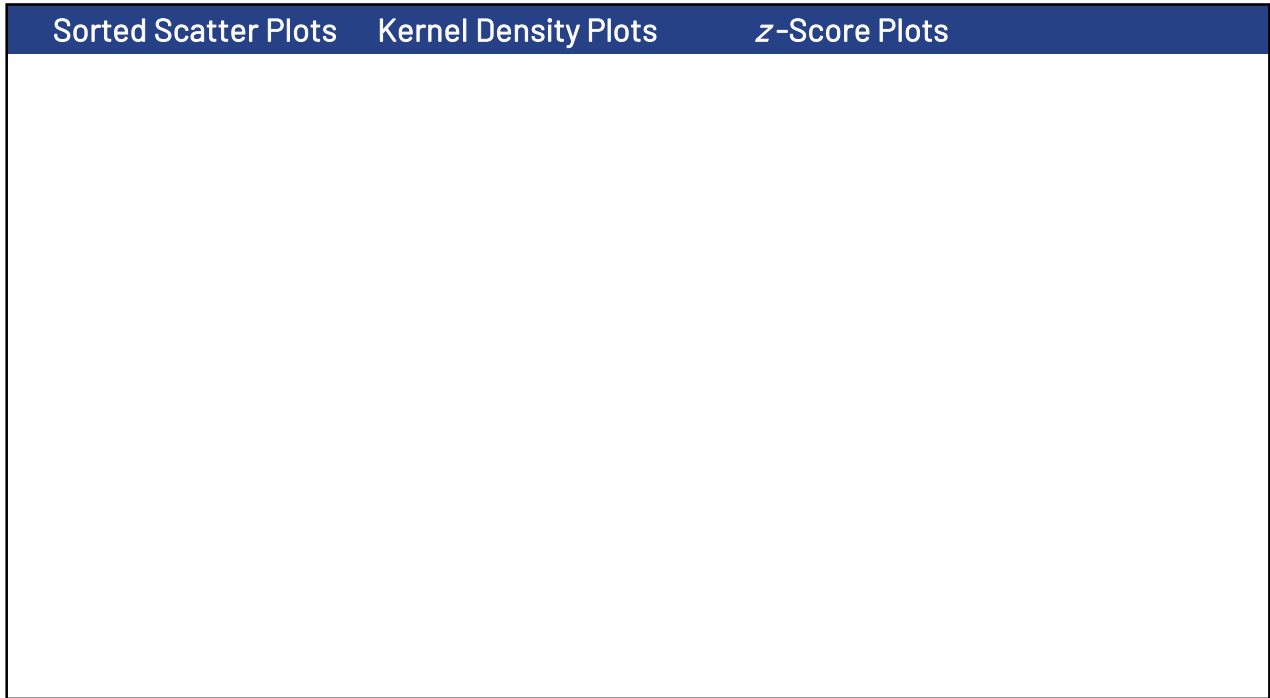
Methods Used

Method	C71-1	C71-2	C71-3	C71-4
LC-MS/MS (Blue)	8	0	0	0
LC/MS (Red)	1	0	0	0

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



DICHLORVOS (DDVP)



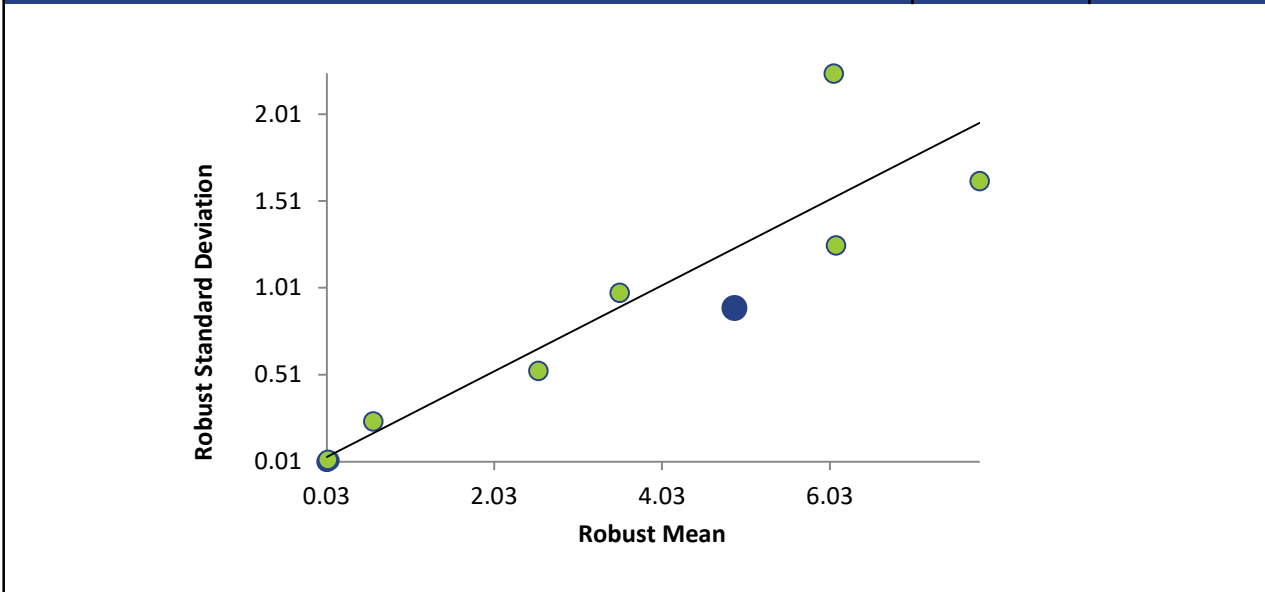
DICHLORVOS (DDVP)

Stability Assessment	Homogeneity Assessment
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Sample 4</p> <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)



DIMETHOATE

Summary Statistics

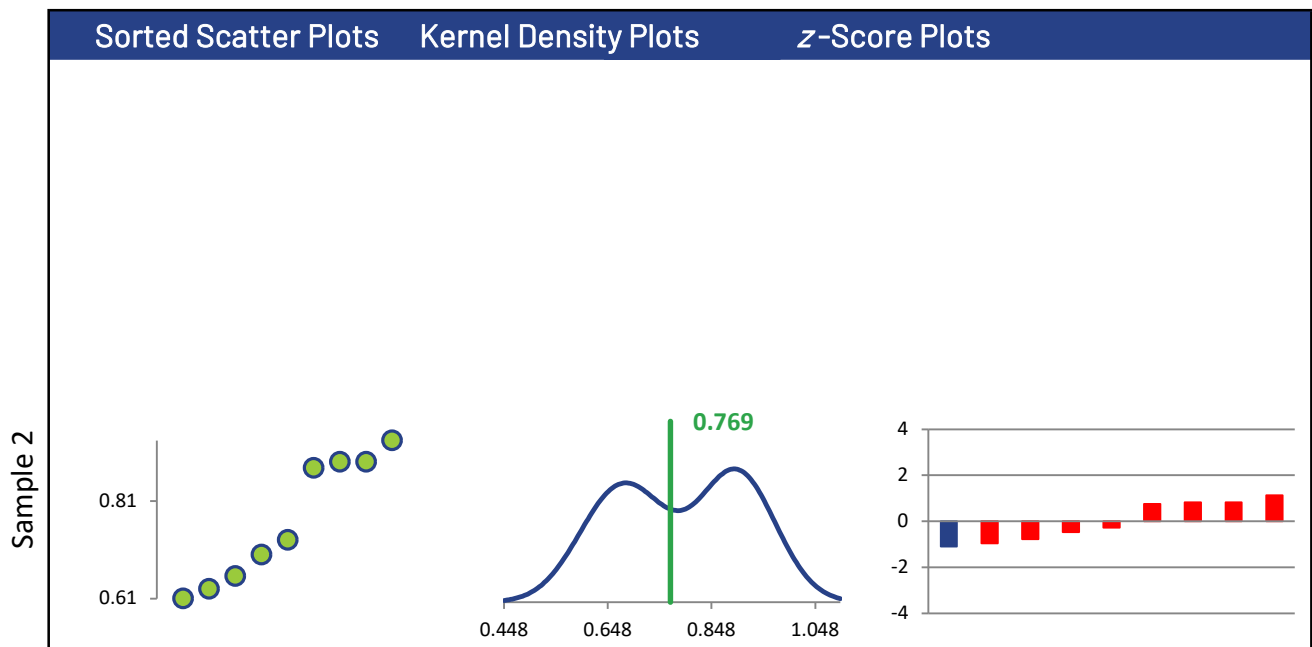
Not Spiked

Statistic	C71-1	C71-2	C71-3	C71-4
N	0	9	0	0
Median µg/g		0.730		
Robust Mean µg/g		0.769		
U µg/g		0.0608		
Robust Standard Deviation µg/g		0.146		
Regression Standard Deviation µg/g				
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/g		0.146		
Outliers	2	0	0	0
z >3.0	0	0	0	0
2< z <3	0	0	0	0

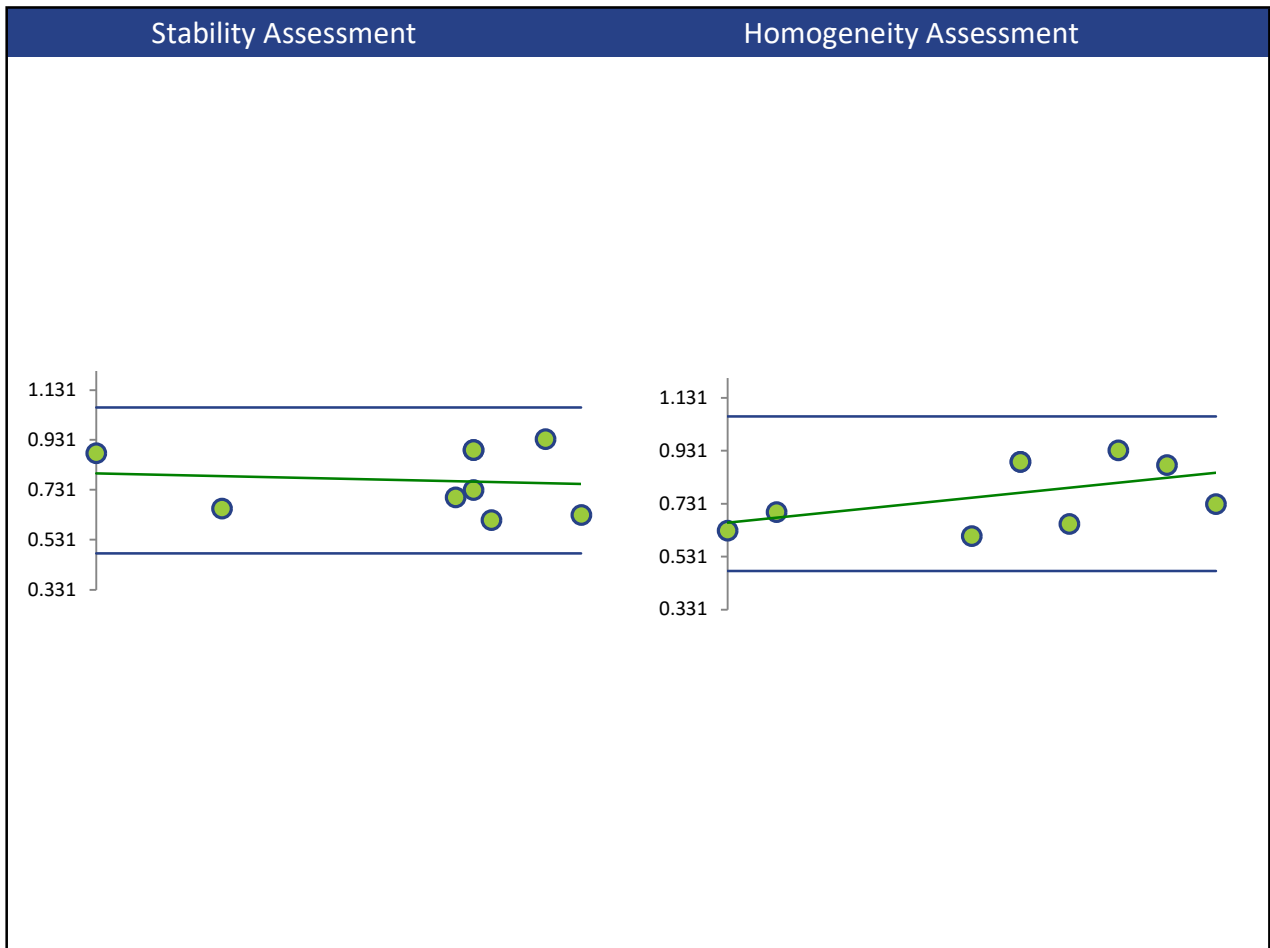
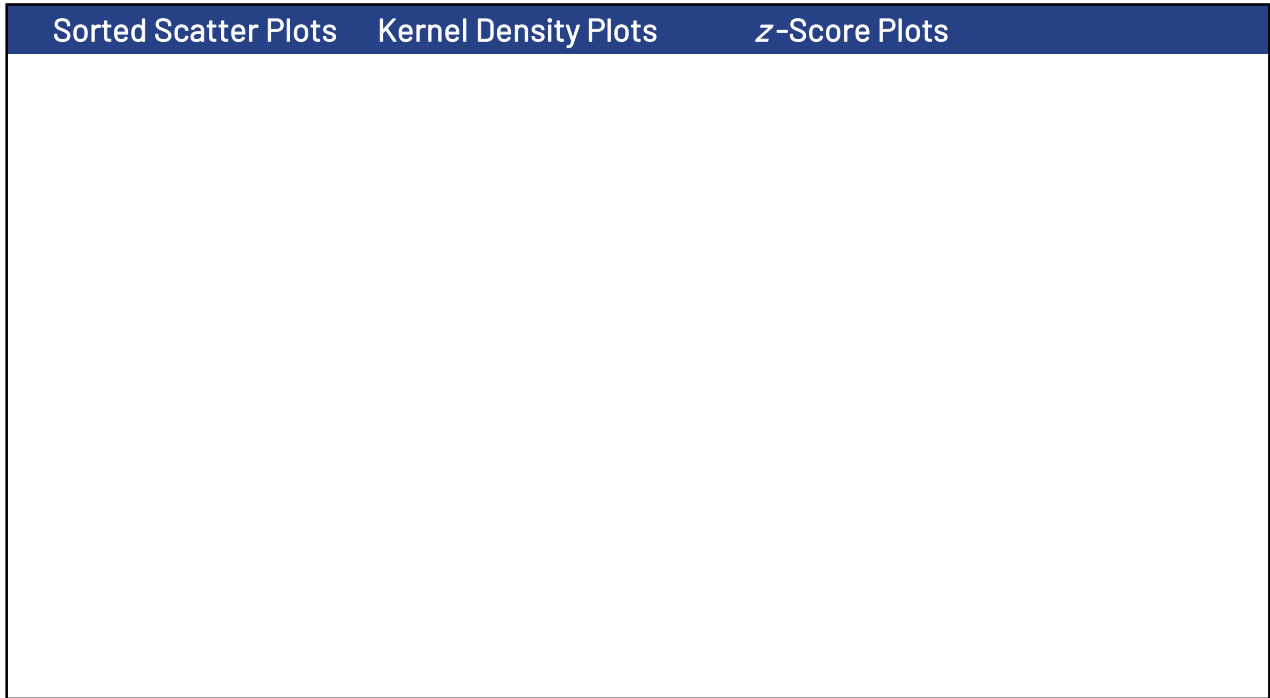
Methods Used

Method	C71-1	C71-2	C71-3	C71-4
LC/MS (Blue)	0	1	0	0
LC-MS/MS (Red)	0	8	0	0

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



DIMETHOATE



DIMETHOATE

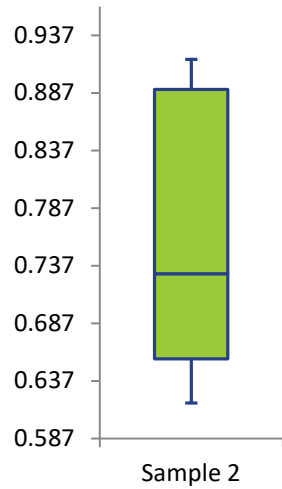
Stability Assessment Homogeneity Assessment

Sample 4

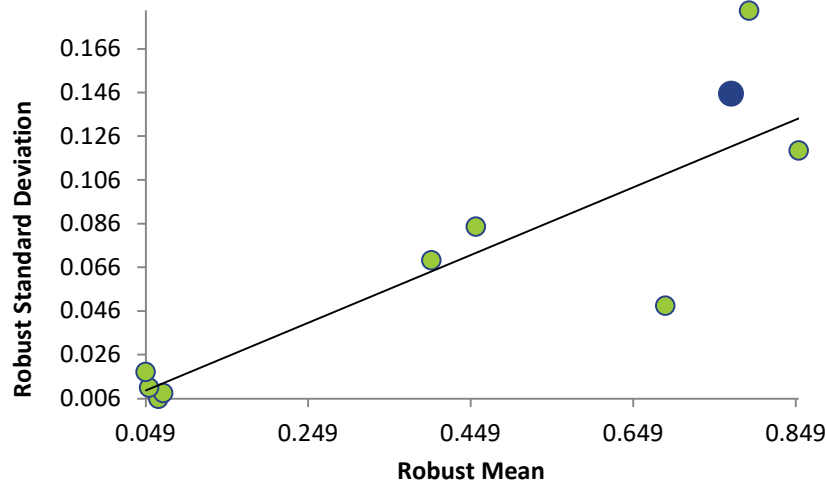
Stability assessments are regression analysis of reported result against date of analysis.

Homogeneity assessments are regression analysis of reported result against bottling order.

Box and Whisker Plots



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



ETHOPROPHOS

Summary Statistics

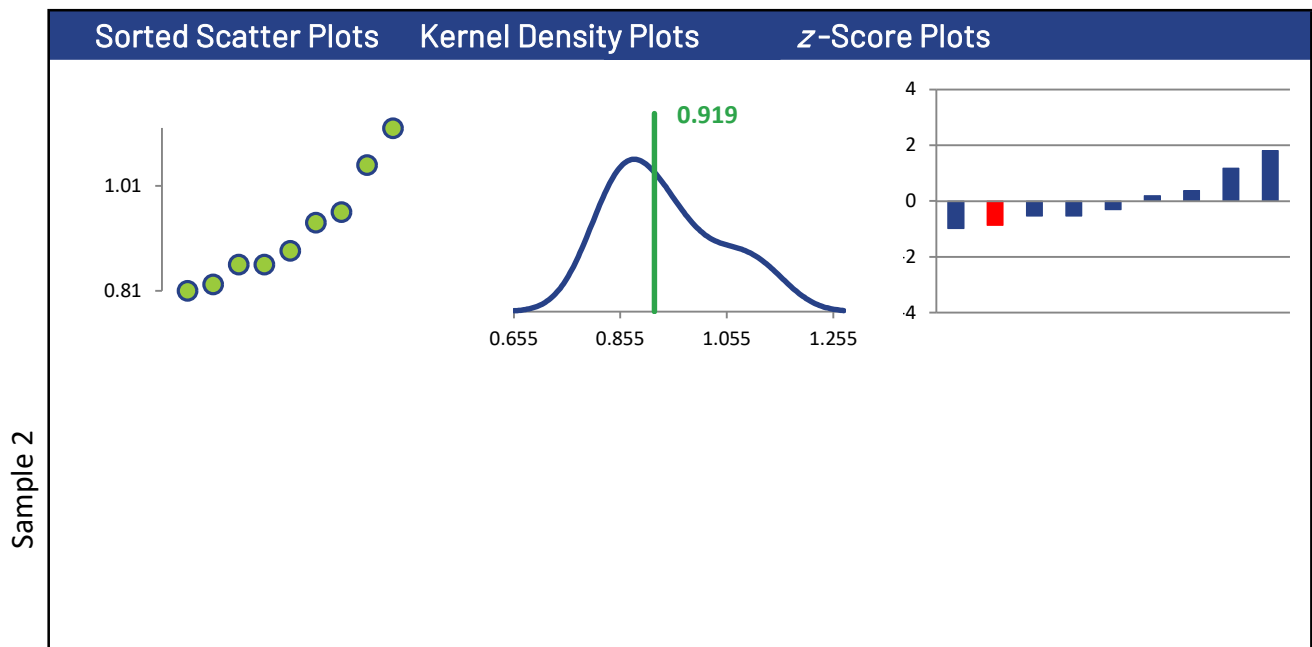
Not Spiked

Statistic	C71-1	C71-2	C71-3	C71-4
N	9	0	0	0
Median µg/g	0.886			
Robust Mean µg/g	0.919			
U µg/g	0.0463			
Robust Standard Deviation µg/g	0.111			
Regression Standard Deviation µg/g				
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/g	0.111			
Outliers	0	2	0	0
z >3.0	0	0	0	0
2< z <3	0	0	0	0

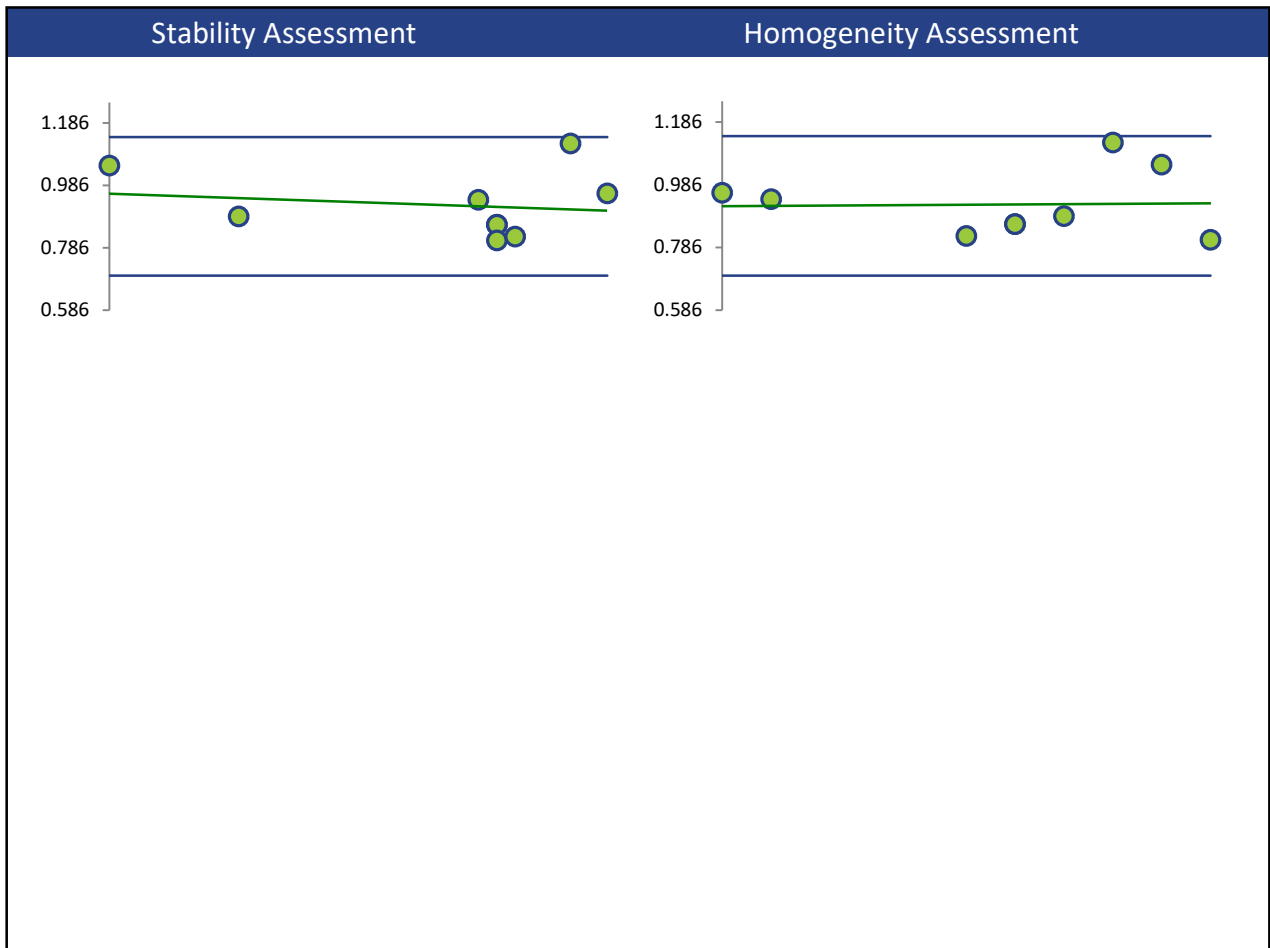
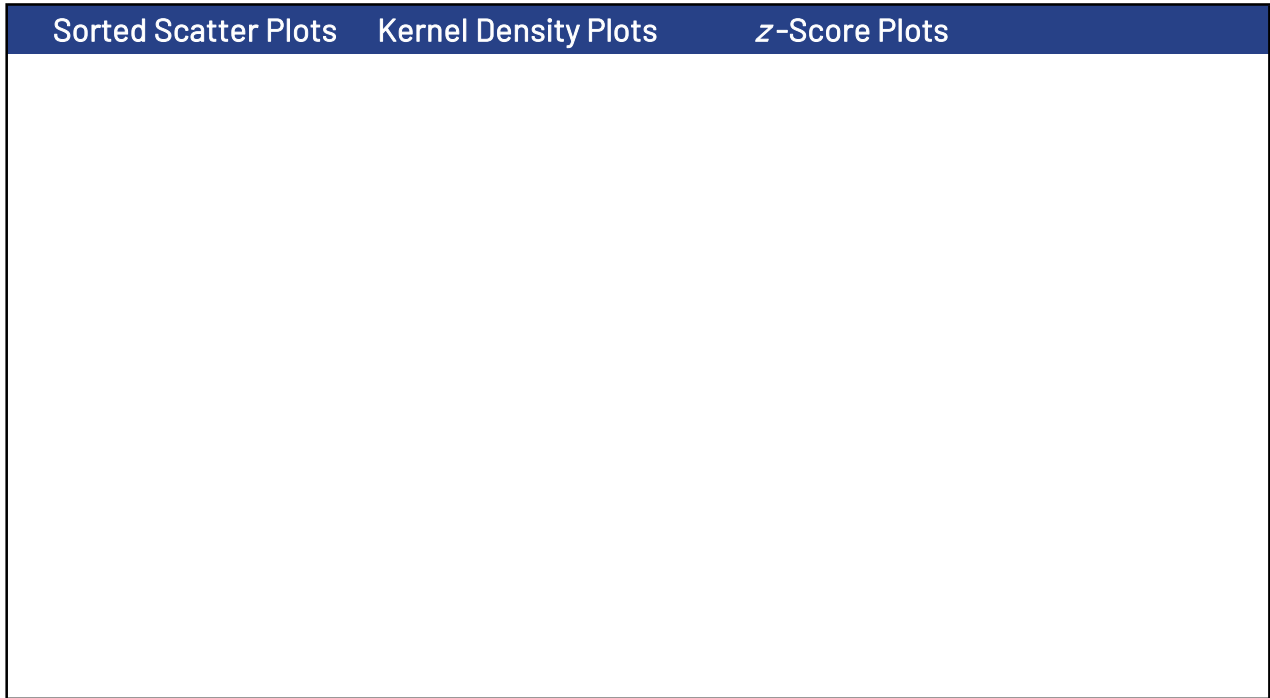
Methods Used

Method	C71-1	C71-2	C71-3	C71-4
LC-MS/MS (Blue)	8	0	0	0
LC/MS (Red)	1	0	0	0

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

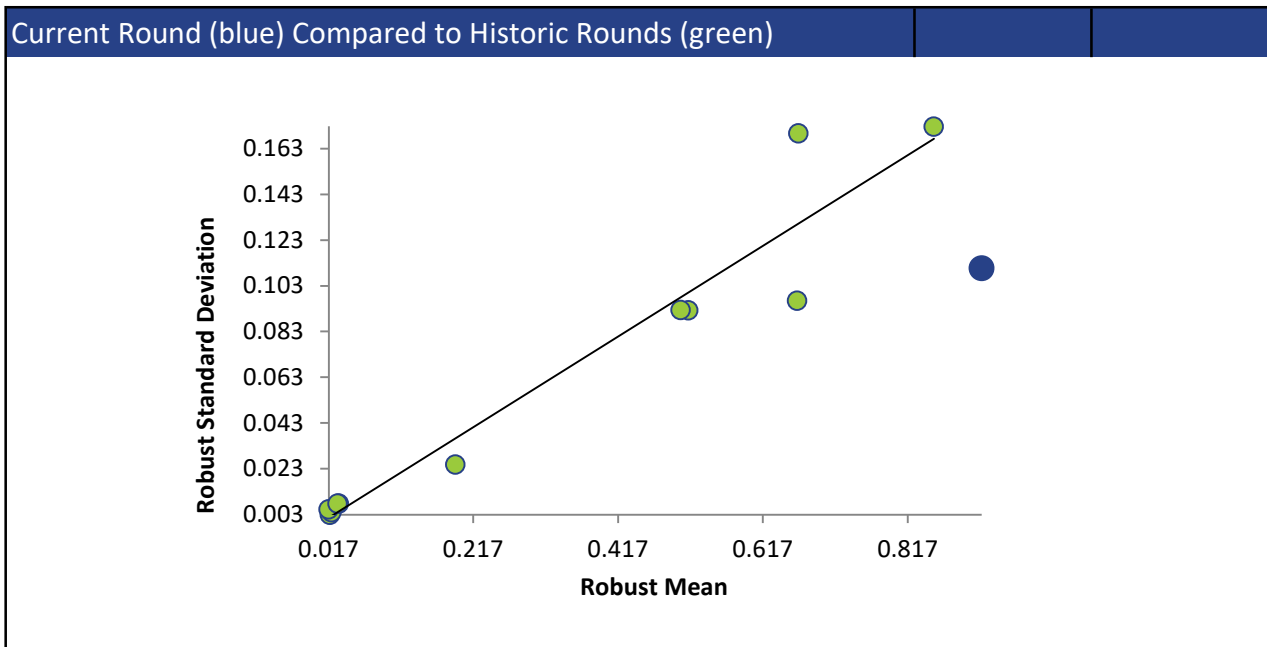


ETHOPROPHOS



ETHOPROPHOS

	Stability Assessment	Homogeneity Assessment
Sample 4		
	<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>	



ETOXAZOLE

Summary Statistics

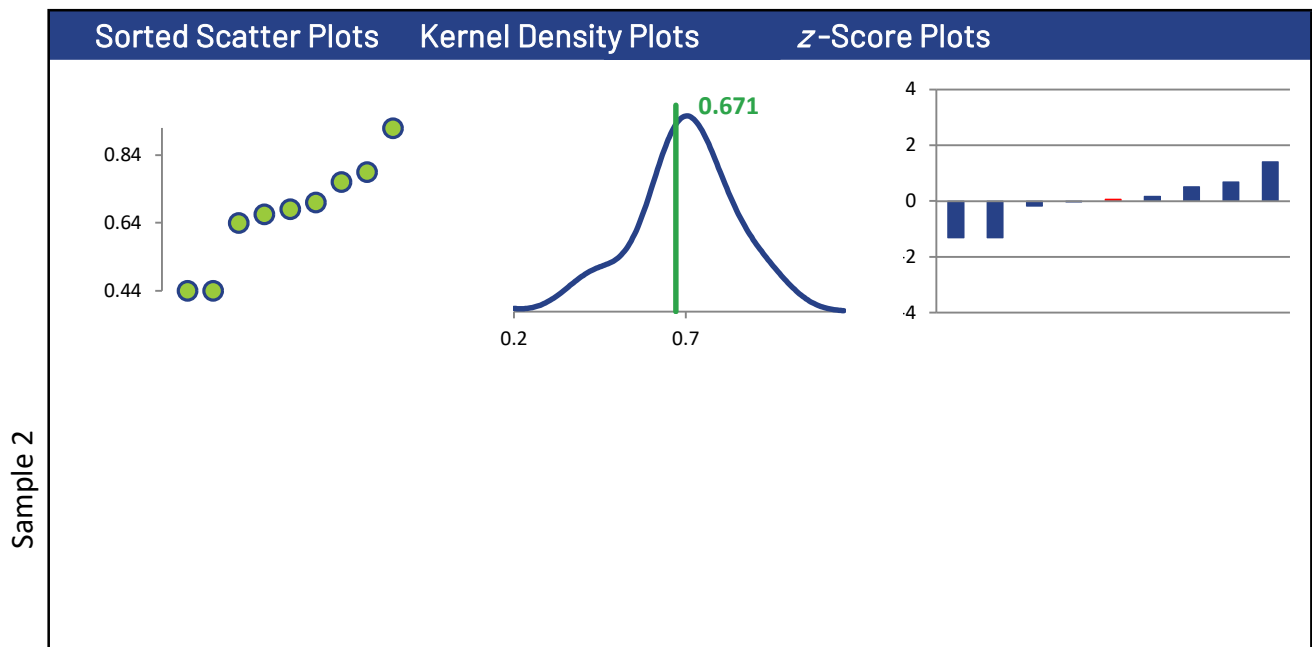
Not Spiked

Statistic	C71-1	C71-2	C71-3	C71-4
N	9	0	0	0
Median µg/g	0.681			
Robust Mean µg/g	0.671			
U µg/g	0.0733			
Robust Standard Deviation µg/g	0.176			
Regression Standard Deviation µg/g				
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/g	0.176			
Outliers	0	2	0	0
z >3.0	0	0	0	0
2< z <3	0	0	0	0

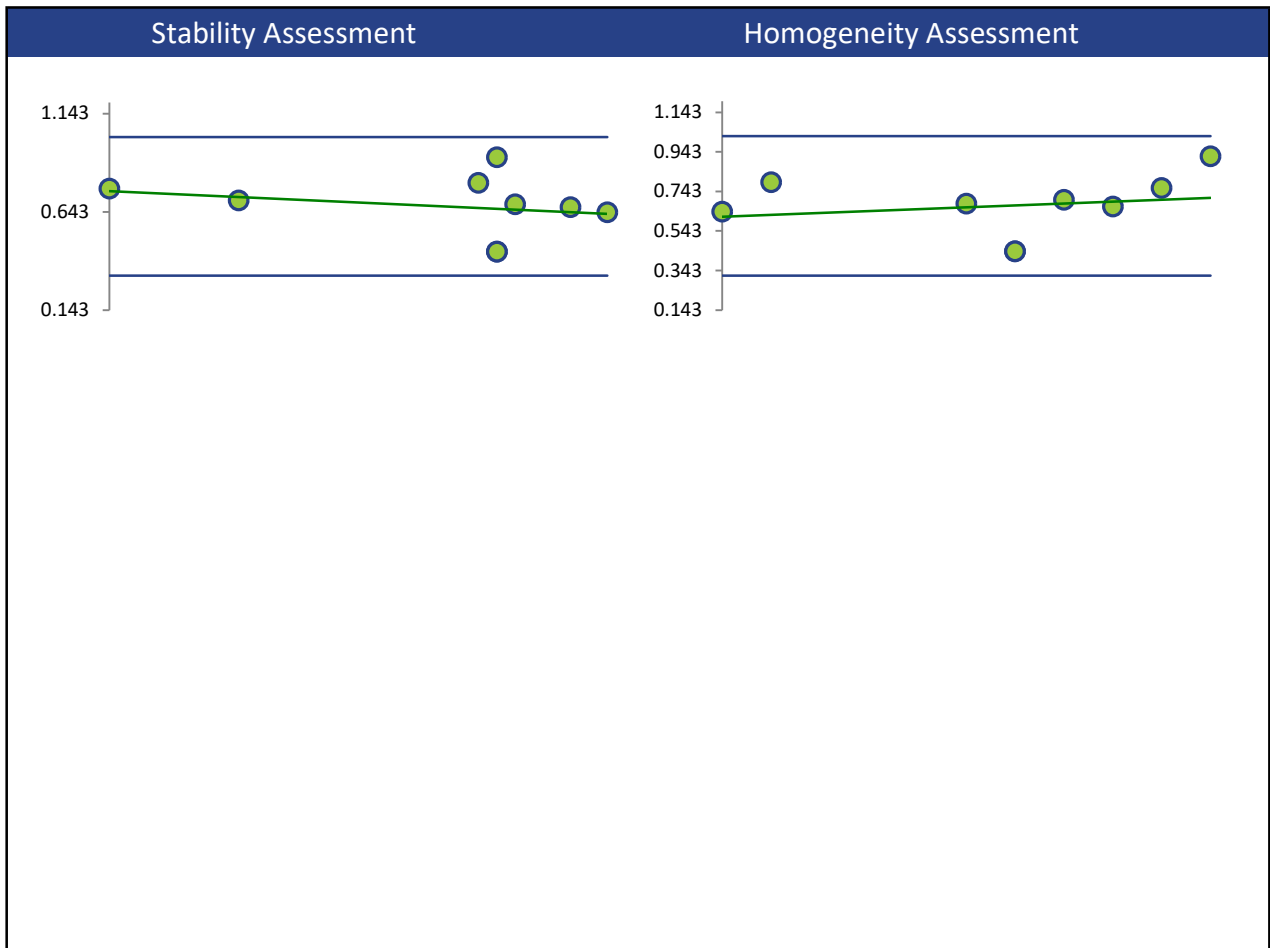
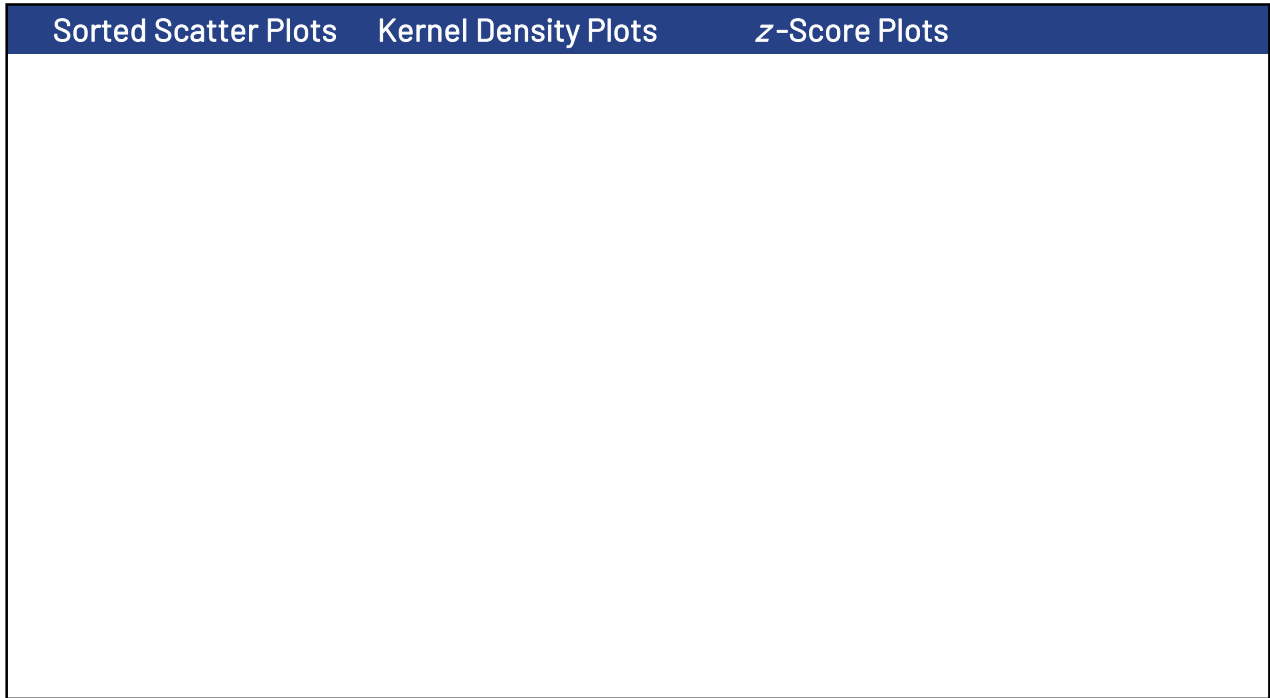
Methods Used

Method	C71-1	C71-2	C71-3	C71-4
LC-MS/MS (Blue)	8	0	0	0
LC/MS (Red)	1	0	0	0

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



ETOXAZOLE



ETOXAZOLE

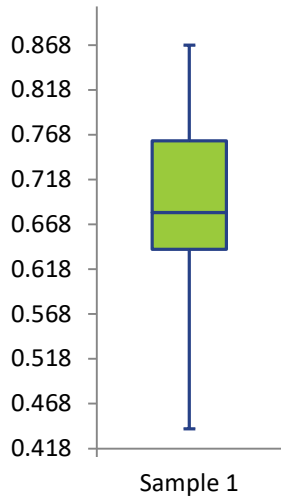
Stability Assessment Homogeneity Assessment

Sample 4

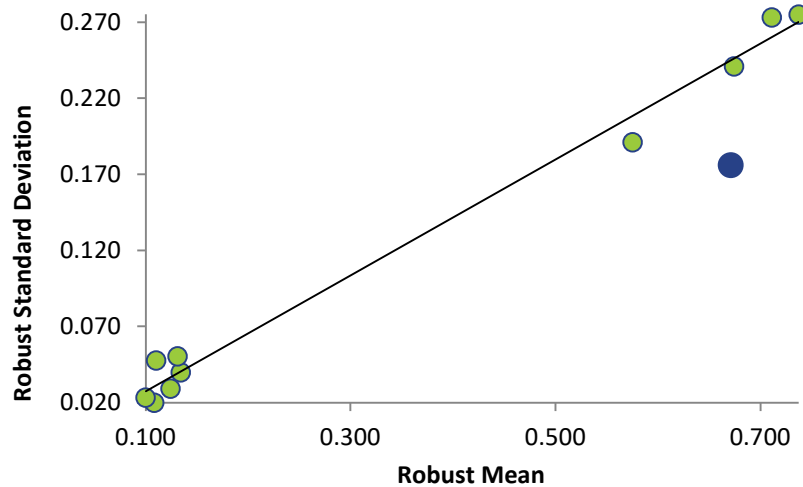
Stability assessments are regression analysis of reported result against date of analysis.

Homogeneity assessments are regression analysis of reported result against bottling order.

Box and Whisker Plots



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



FIPRONIL

Summary Statistics

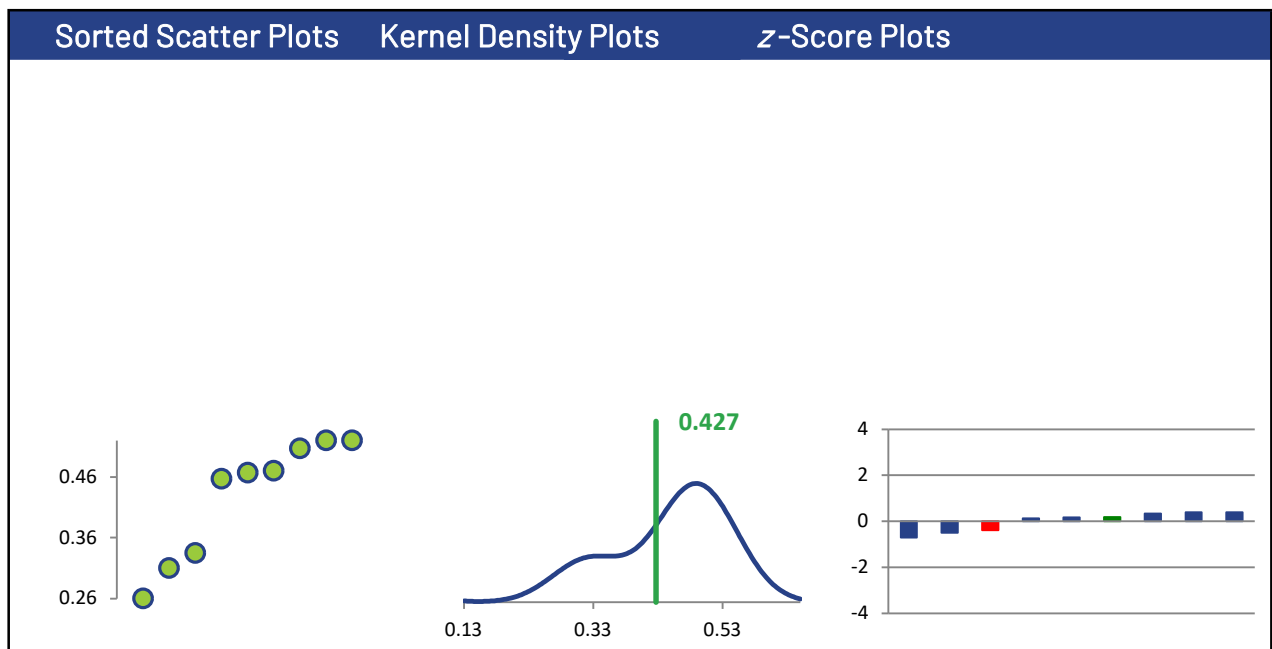
Not Spiked

Statistic	C71-1	C71-2	C71-3	C71-4
N	0	9	0	0
Median µg/g		0.467		
Robust Mean µg/g		0.427		
U µg/g		0.0467		
Robust Standard Deviation µg/g		0.112		
Regression Standard Deviation µg/g				
Stability Flag				
Homogeneity Flag		Homogeneity		
Standard Deviation Used (SDPA) µg/g		0.236		
Outliers	2	0	0	0
z >3.0	0	0	0	0
2< z <3	0	0	0	0

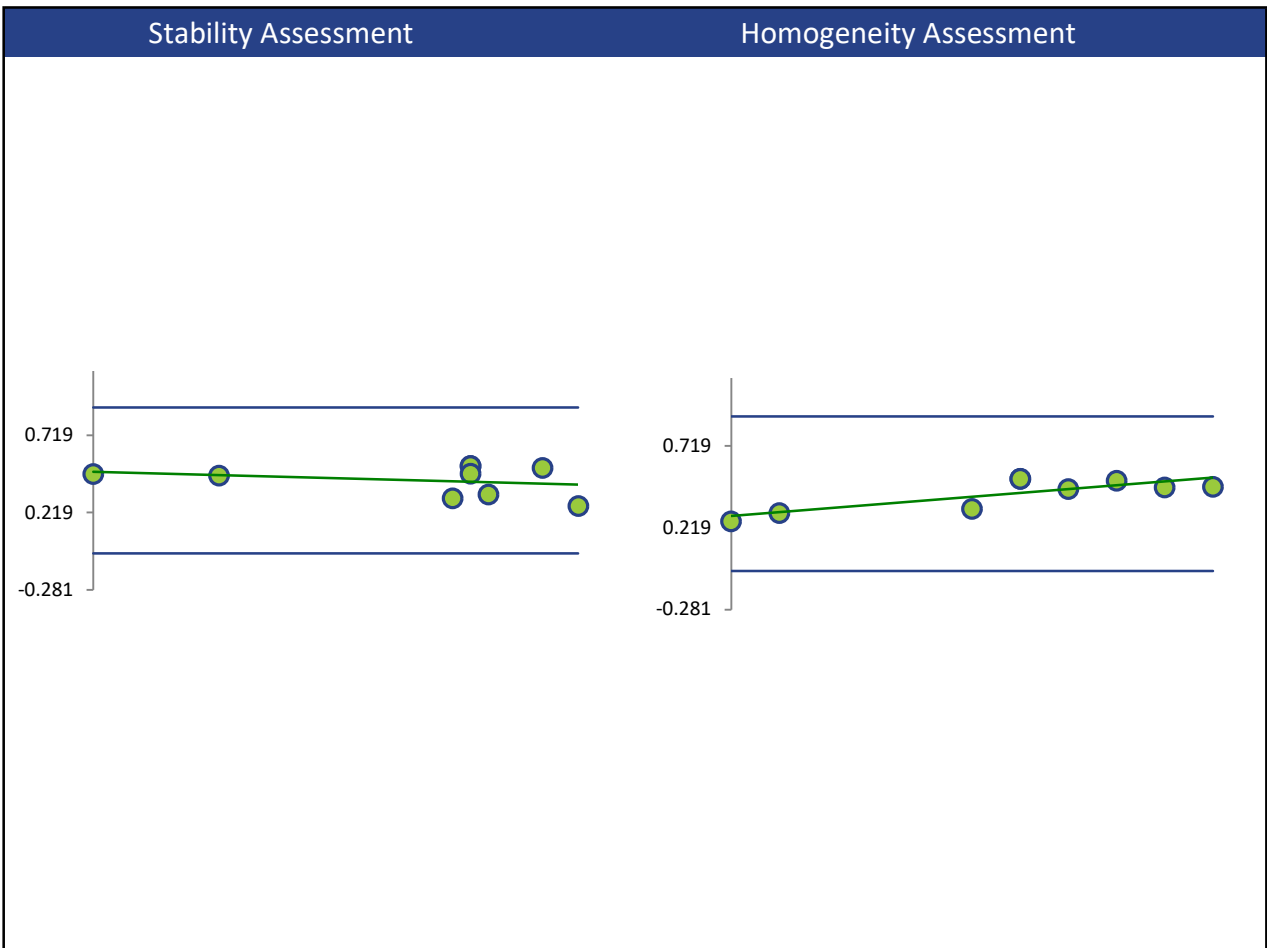
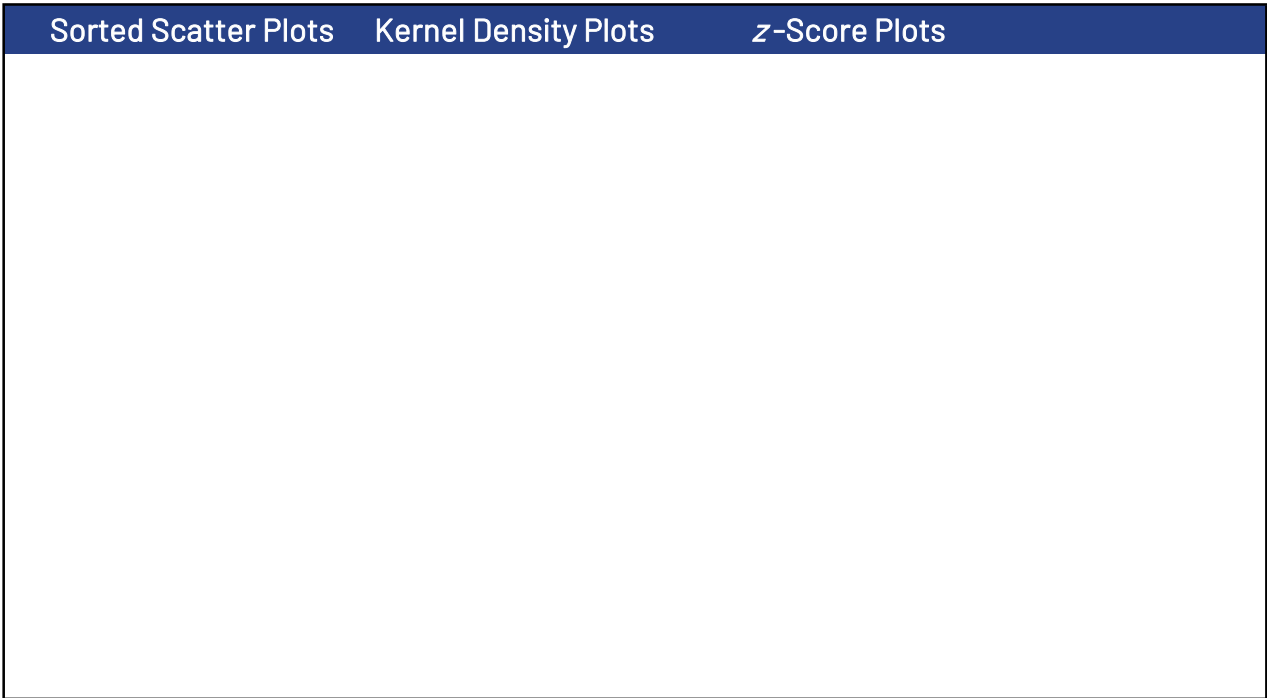
Methods Used

Method	C71-1	C71-2	C71-3	C71-4
LC-MS/MS (Blue)	0	7	0	0
LC/MS (Red)	0	1	0	0
GC/MS/MS (Green)	0	1	0	0

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



FIPRONIL



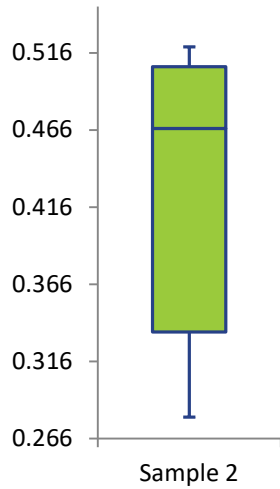
FIPRONIL

	Stability Assessment	Homogeneity Assessment
Sample 4		

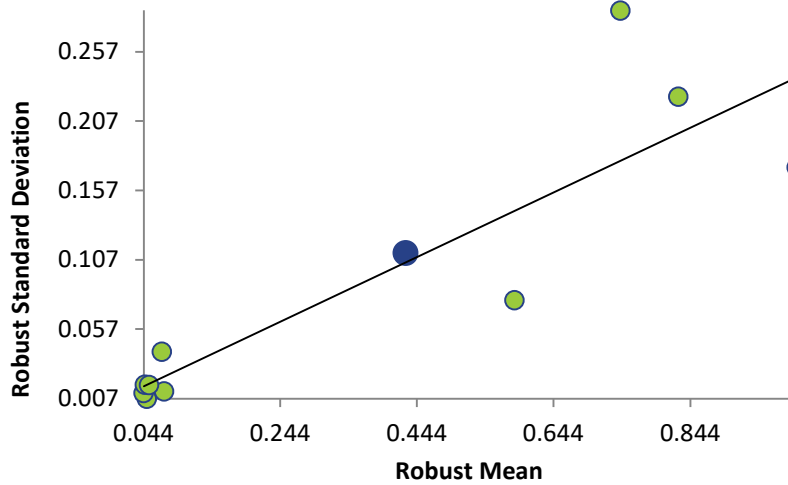
Stability assessments are regression analysis of reported result against date of analysis.

Homogeneity assessments are regression analysis of reported result against bottling order.

Box and Whisker Plots



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



FLUDIOXONIL

Summary Statistics

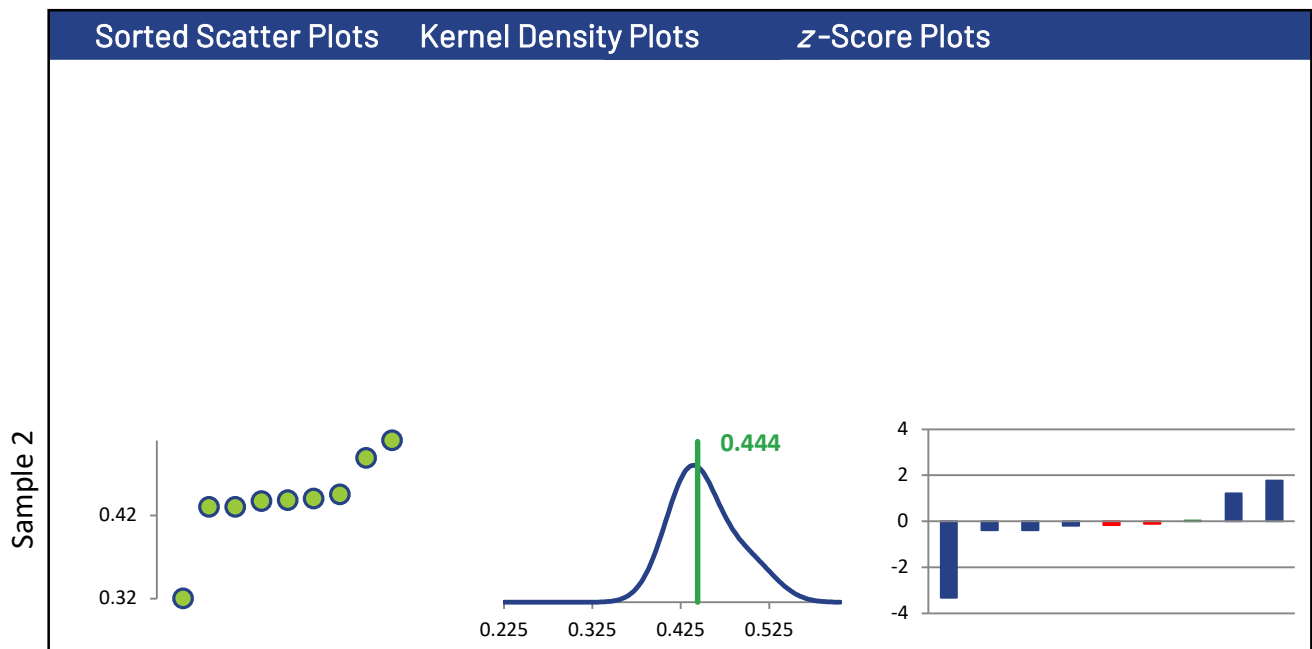
Not Spiked

Statistic	C71-1	C71-2	C71-3	C71-4
N	0	9	0	0
Median µg/g		0.438		
Robust Mean µg/g		0.444		
U µg/g		0.0155		
Robust Standard Deviation µg/g		0.0373		
Regression Standard Deviation µg/g				
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/g		0.0373		
Outliers	2	0	0	0
z >3.0	0	1	0	0
2< z <3	0	0	0	0

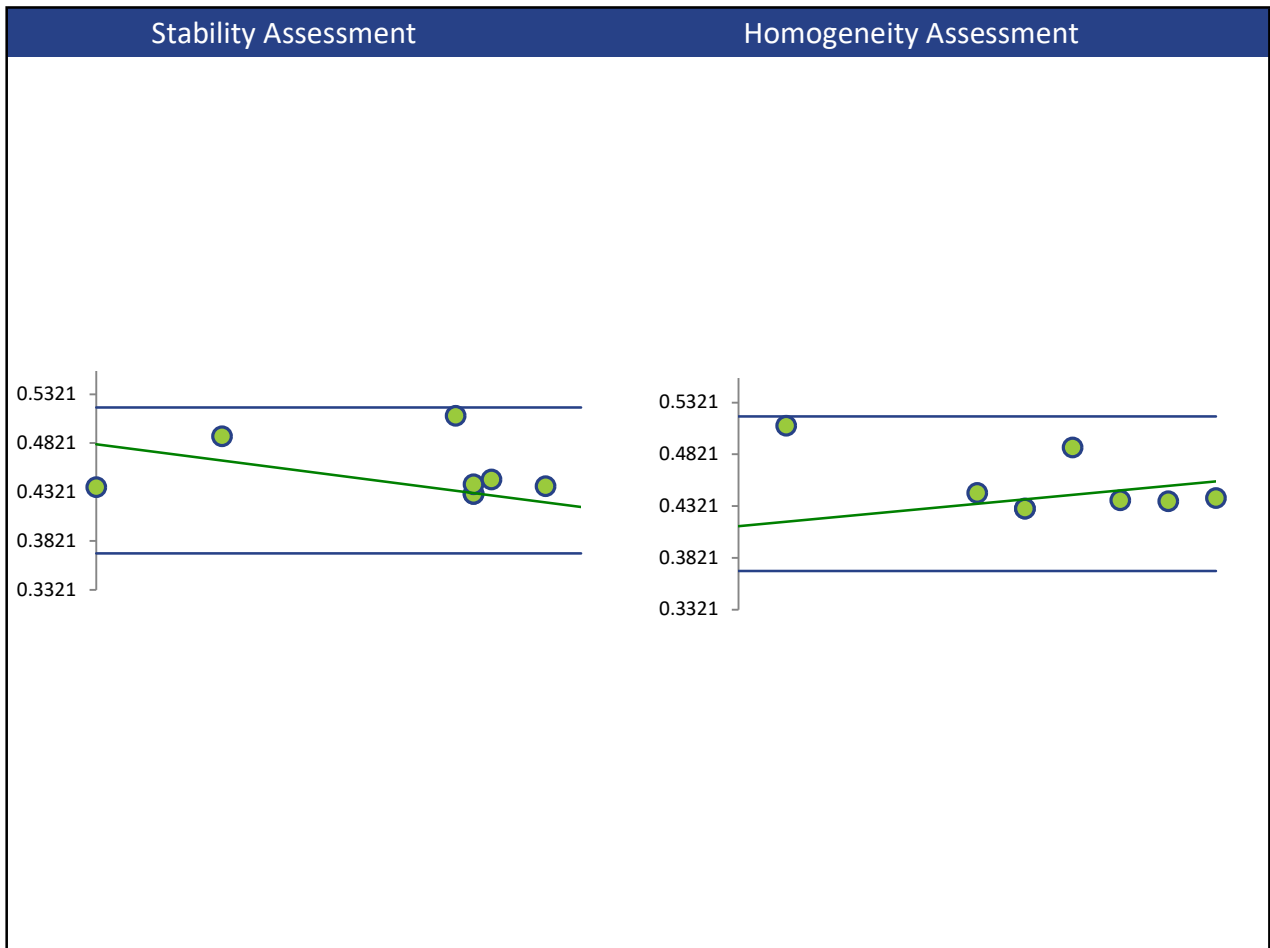
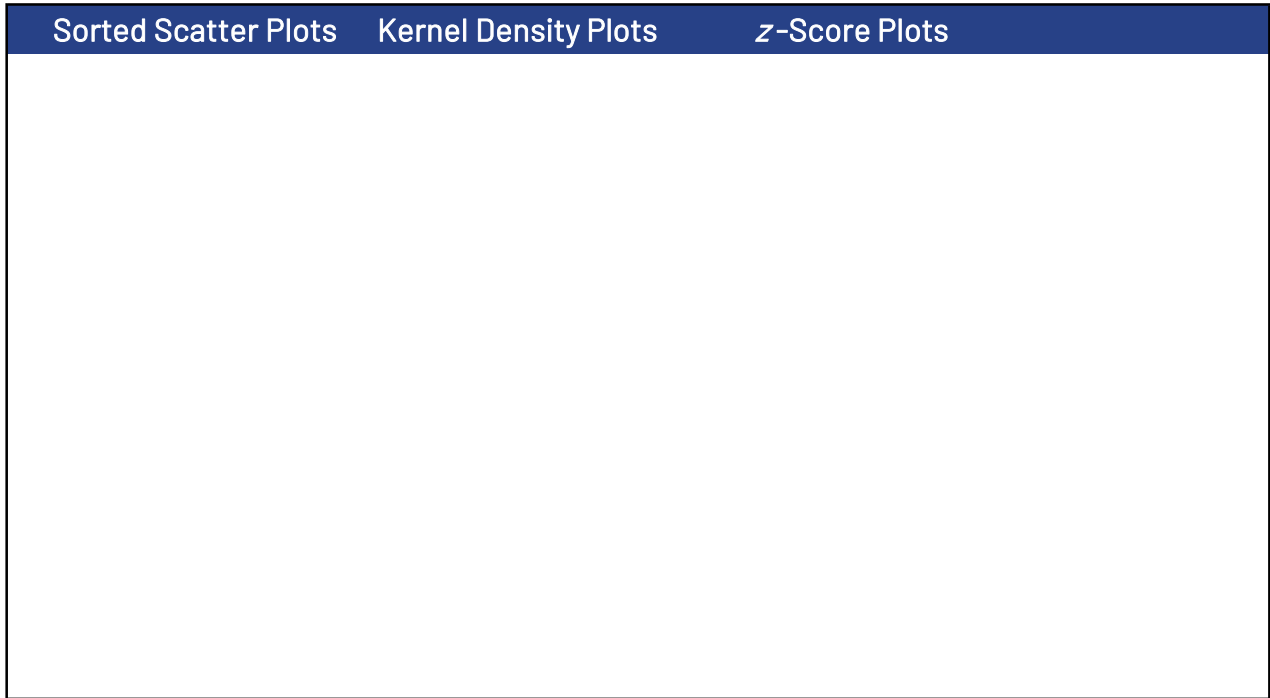
Methods Used

Method	C71-1	C71-2	C71-3	C71-4
LC-MS/MS (Blue)	0	6	0	0
GC/MS/MS (Red)	0	2	0	0
LC/MS (Green)	0	1	0	0

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



FLUDIOXONIL



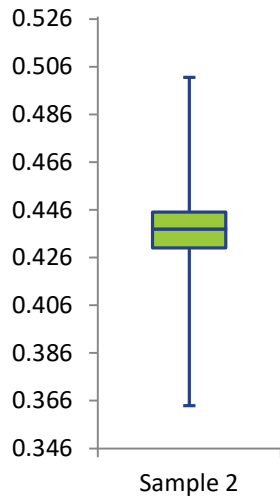
FLUDIOXONIL

	Stability Assessment	Homogeneity Assessment
Sample 4		

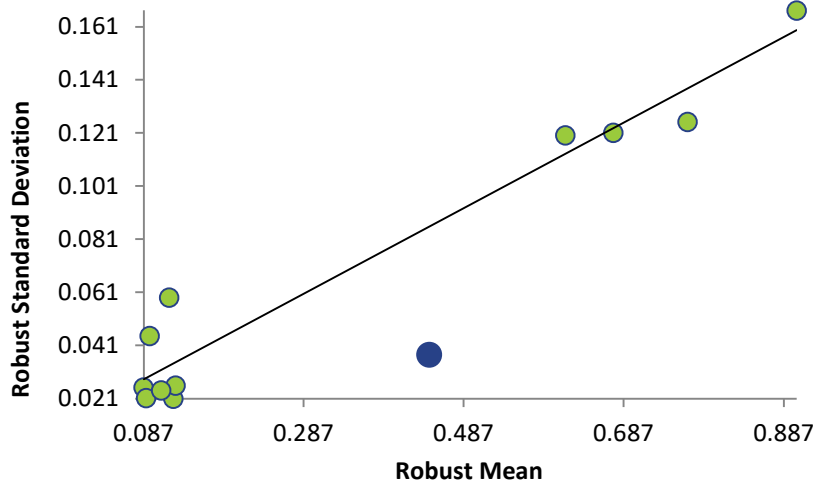
Stability assessments are regression analysis of reported result against date of analysis.

Homogeneity assessments are regression analysis of reported result against bottling order.

Box and Whisker Plots



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



IMIDACLOPRID

Summary Statistics

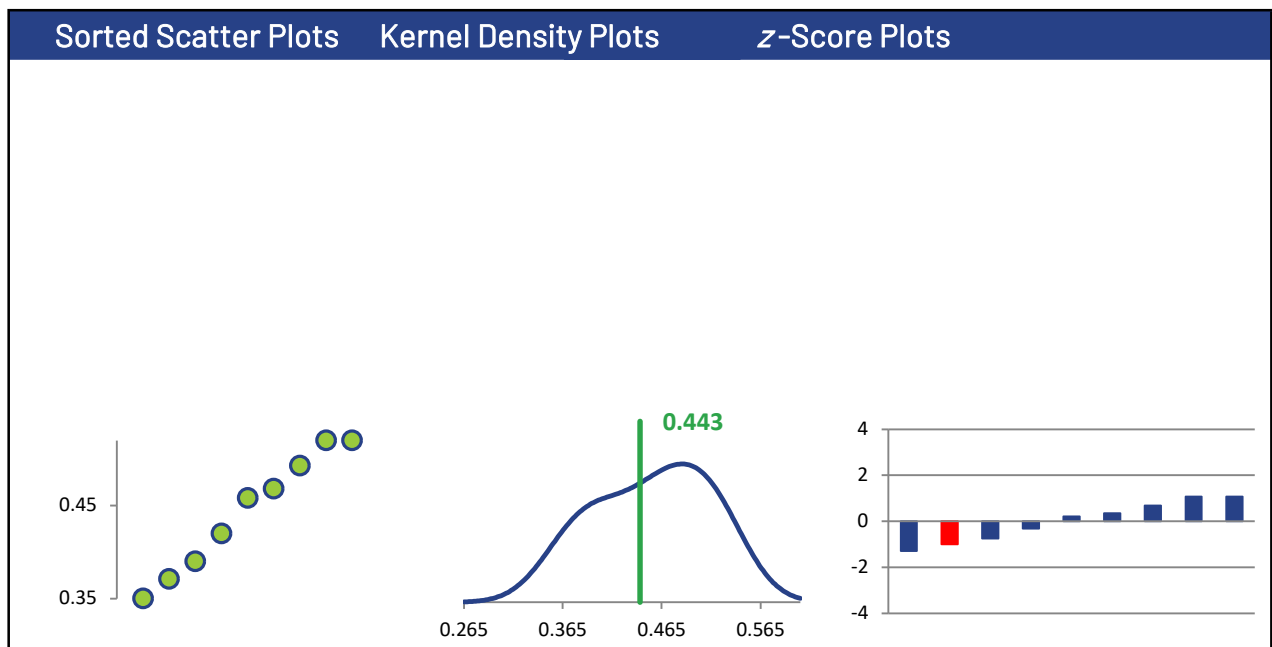
Not Spiked

Statistic	C71-1	C71-2	C71-3	C71-4
N	0	9	0	0
Median µg/g		0.458		
Robust Mean µg/g		0.443		
U µg/g		0.0300		
Robust Standard Deviation µg/g		0.0721		
Regression Standard Deviation µg/g				
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/g		0.0721		
Outliers	2	0	0	0
z >3.0	0	0	0	0
2< z <3	0	0	0	0

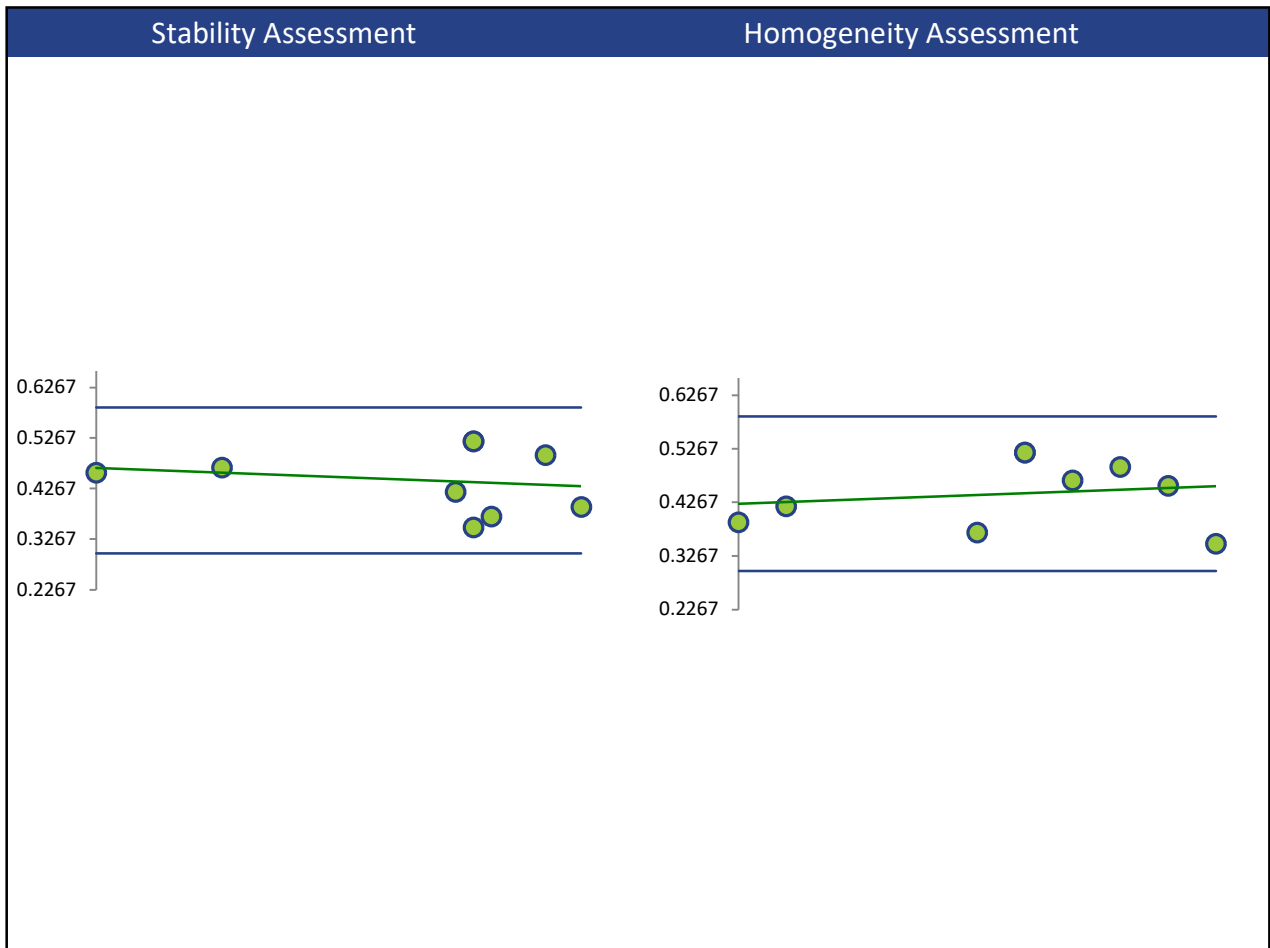
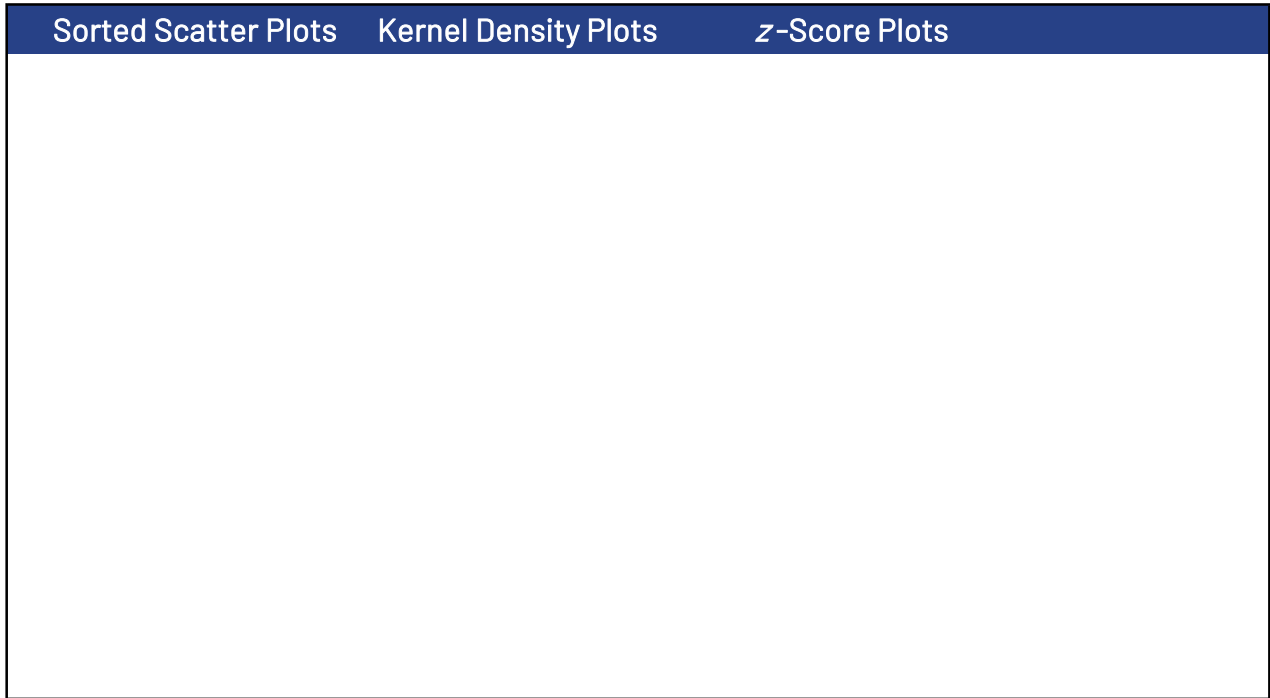
Methods Used

Method	C71-1	C71-2	C71-3	C71-4
LC-MS/MS (Blue)	0	8	0	0
LC/MS (Red)	0	1	0	0

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



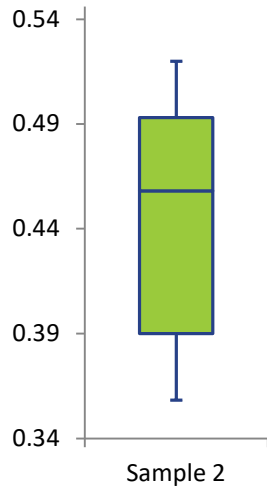
IMIDACLOPRID



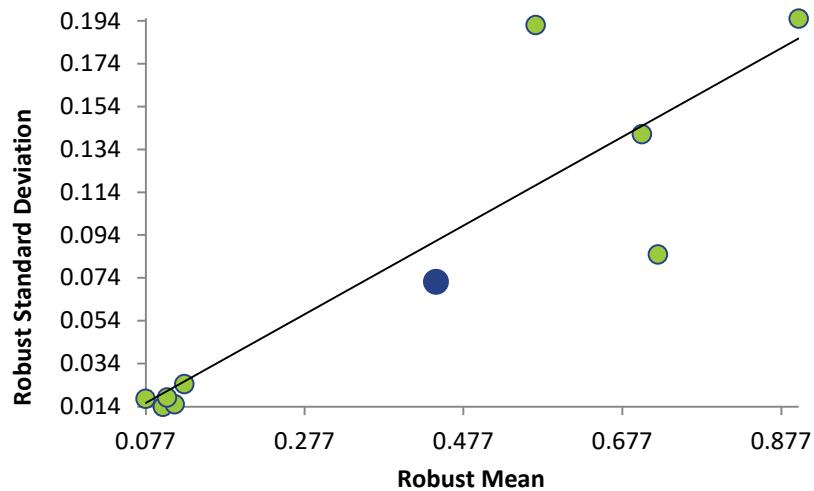
IMIDACLOPRID

	Stability Assessment	Homogeneity Assessment
Sample 4		
	Stability assessments are regression analysis of reported result against date of analysis.	
	Homogeneity assessments are regression analysis of reported result against bottling order.	

Box and Whisker Plots



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



MALATHION

Summary Statistics

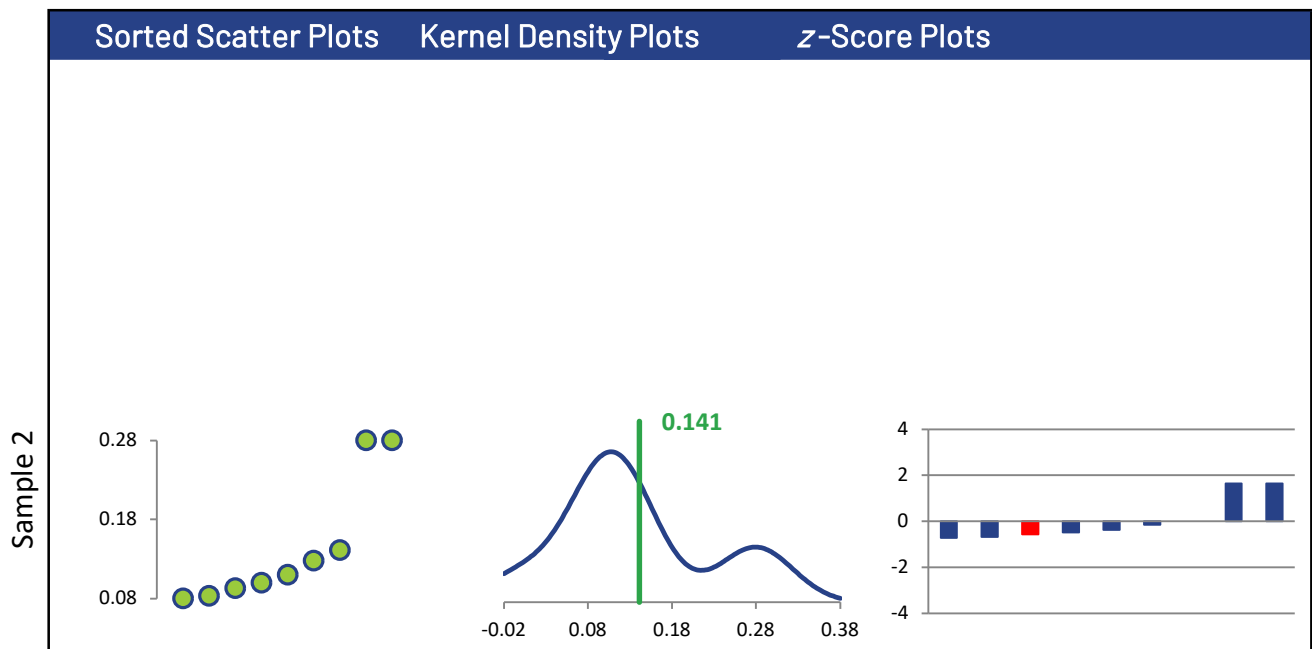
Not Spiked

Statistic	C71-1	C71-2	C71-3	C71-4
N	0	9	0	0
Median µg/g		0.110		
Robust Mean µg/g		0.141		
U µg/g		0.0353		
Robust Standard Deviation µg/g		0.0846		
Regression Standard Deviation µg/g				
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/g		0.0846		
Outliers	2	0	0	0
z >3.0	0	0	0	0
2< z <3	0	0	0	0

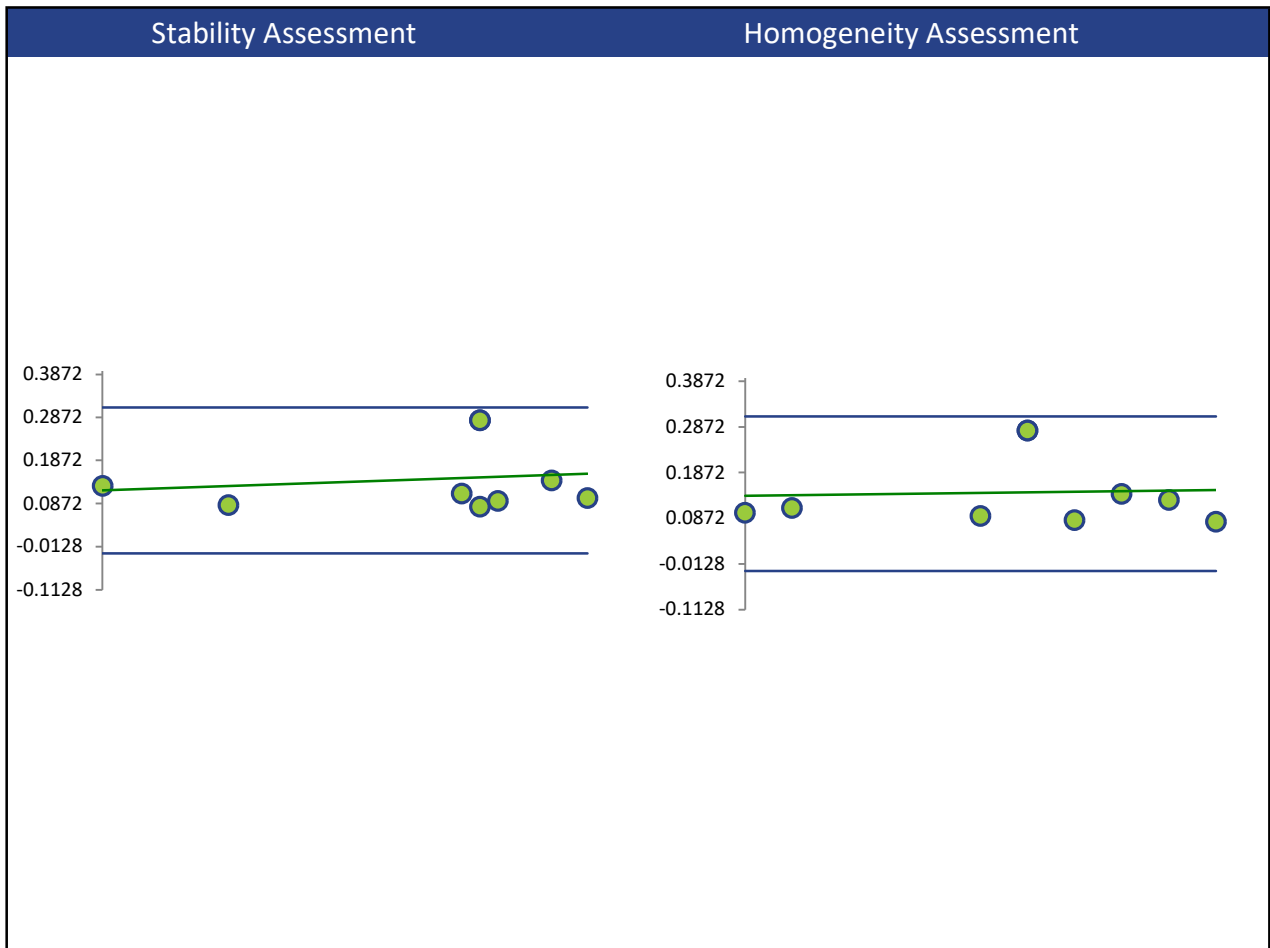
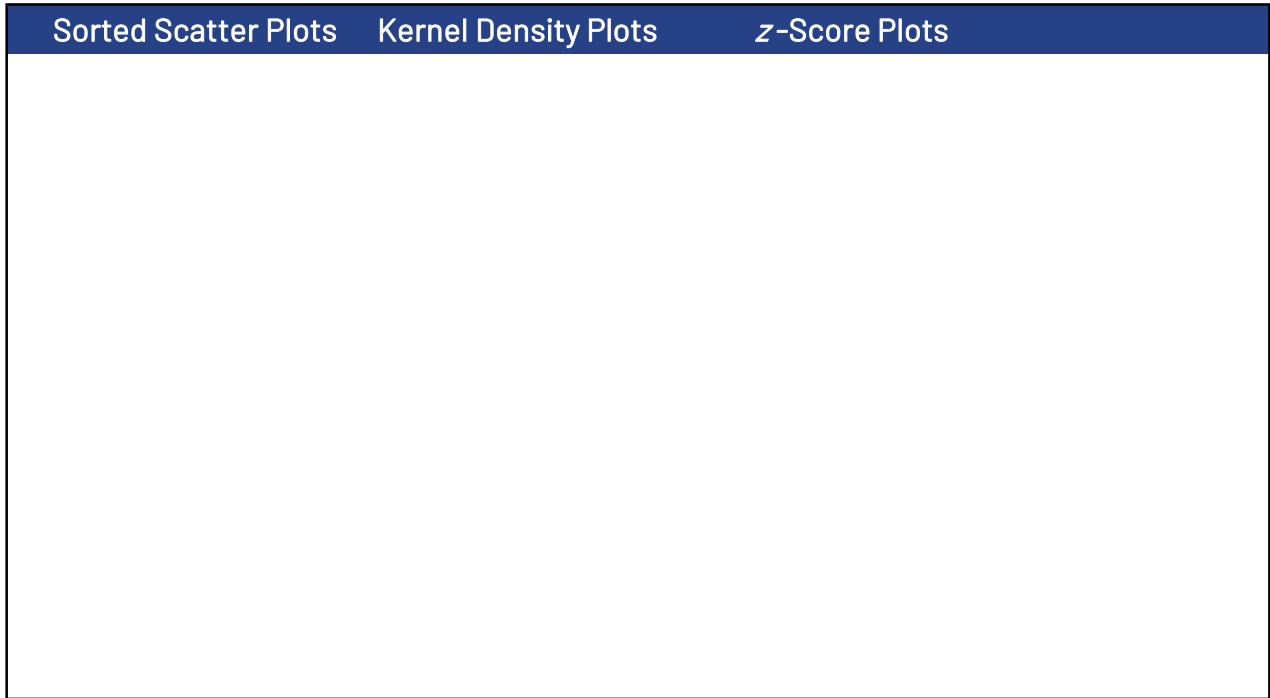
Methods Used

Method	C71-1	C71-2	C71-3	C71-4
LC-MS/MS (Blue)	0	8	0	0
LC/MS (Red)	0	1	0	0

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



MALATHION



MALATHION

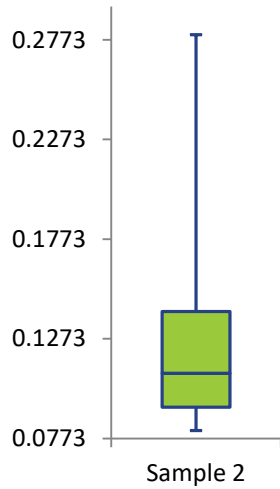
Stability Assessment Homogeneity Assessment

Sample 4

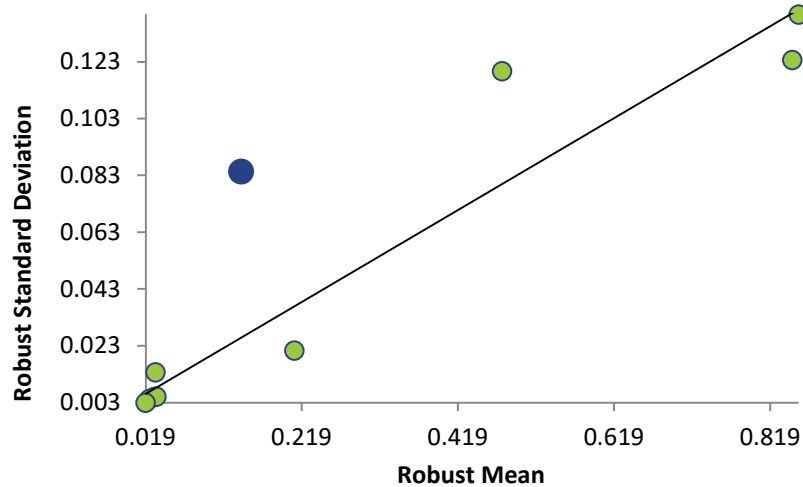
Stability assessments are regression analysis of reported result against date of analysis.

Homogeneity assessments are regression analysis of reported result against bottling order.

Box and Whisker Plots



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



METALAXYL

Summary Statistics

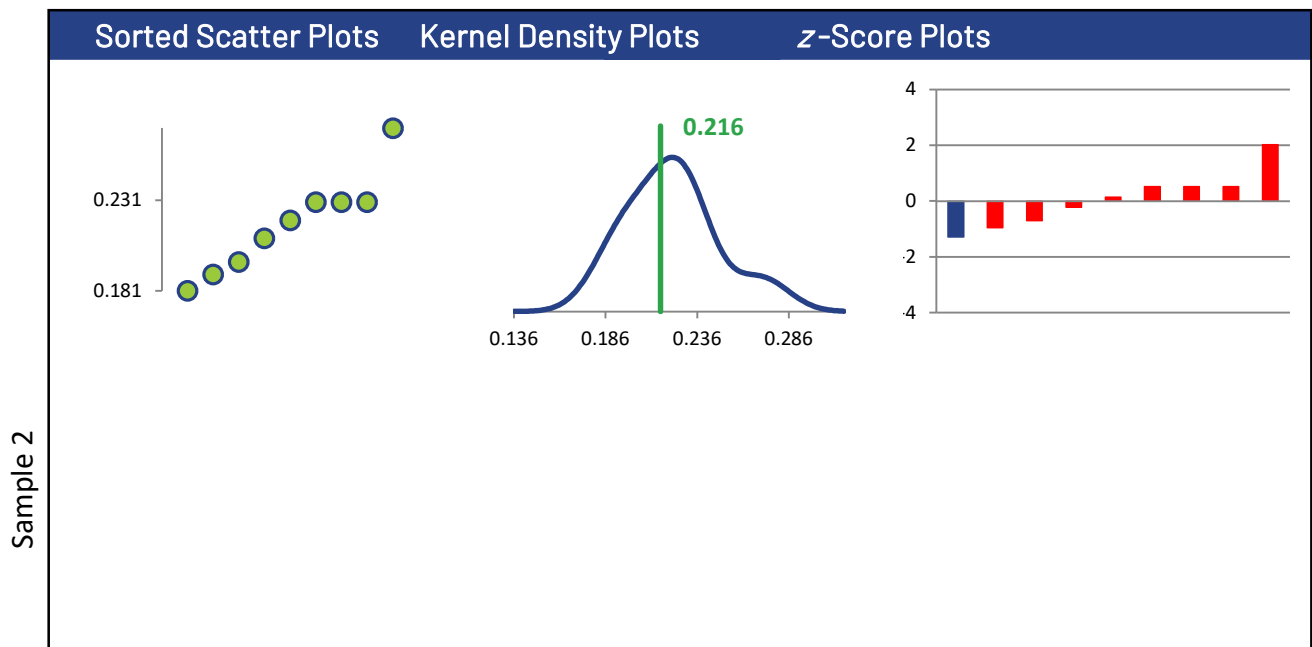
Not Spiked

Statistic	C71-1	C71-2	C71-3	C71-4
N	9	0	0	0
Median µg/g	0.220			
Robust Mean µg/g	0.216			
U µg/g	0.0113			
Robust Standard Deviation µg/g	0.0271			
Regression Standard Deviation µg/g				
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/g	0.0271			
Outliers	0	2	0	0
z >3.0	0	0	0	0
2< z <3	1	0	0	0

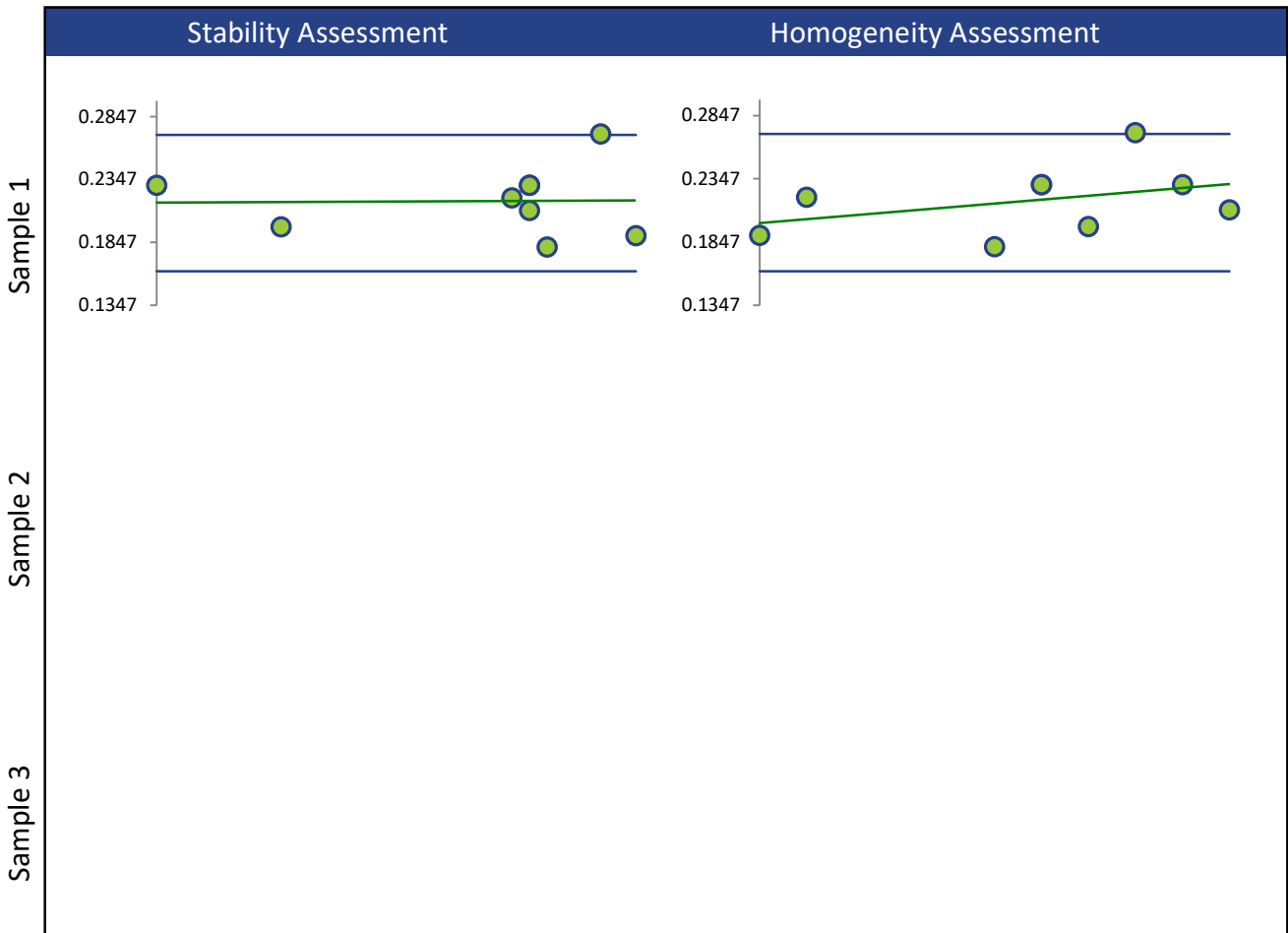
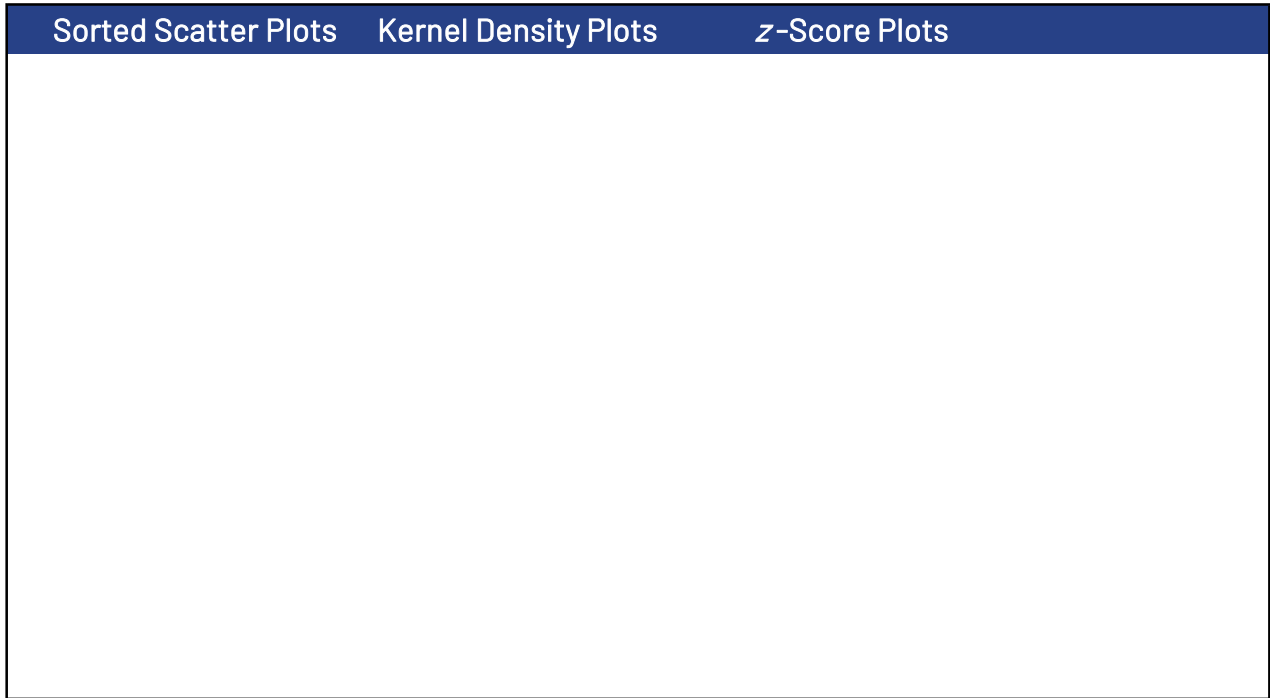
Methods Used

Method	C71-1	C71-2	C71-3	C71-4
LC/MS (Blue)	1	0	0	0
LC-MS/MS (Red)	8	0	0	0

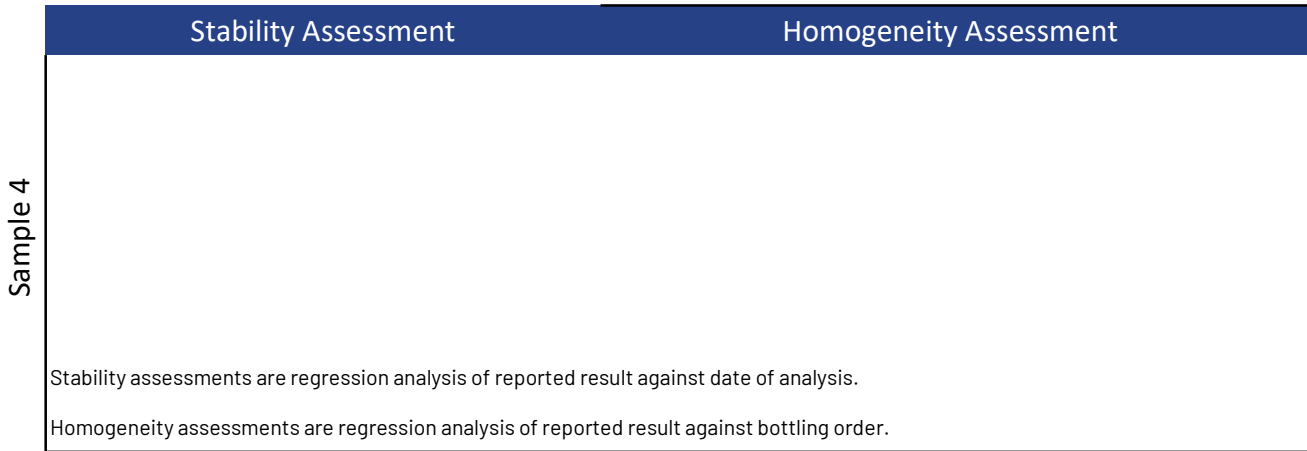
All summary stats and the plots below are based on the data excluding any flagged outliers



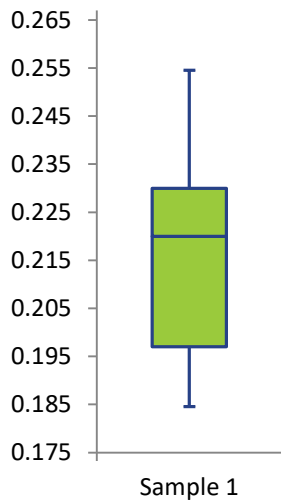
METALAXYL



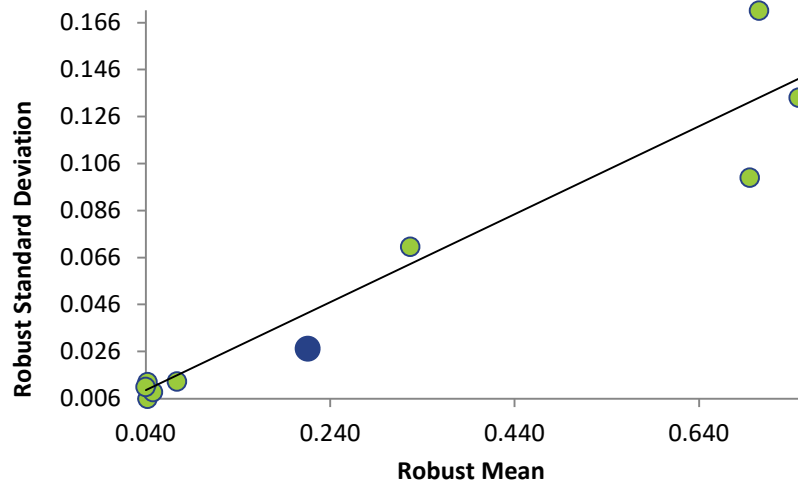
METALAXYL



Box and Whisker Plots



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



METHIOCARB

Summary Statistics

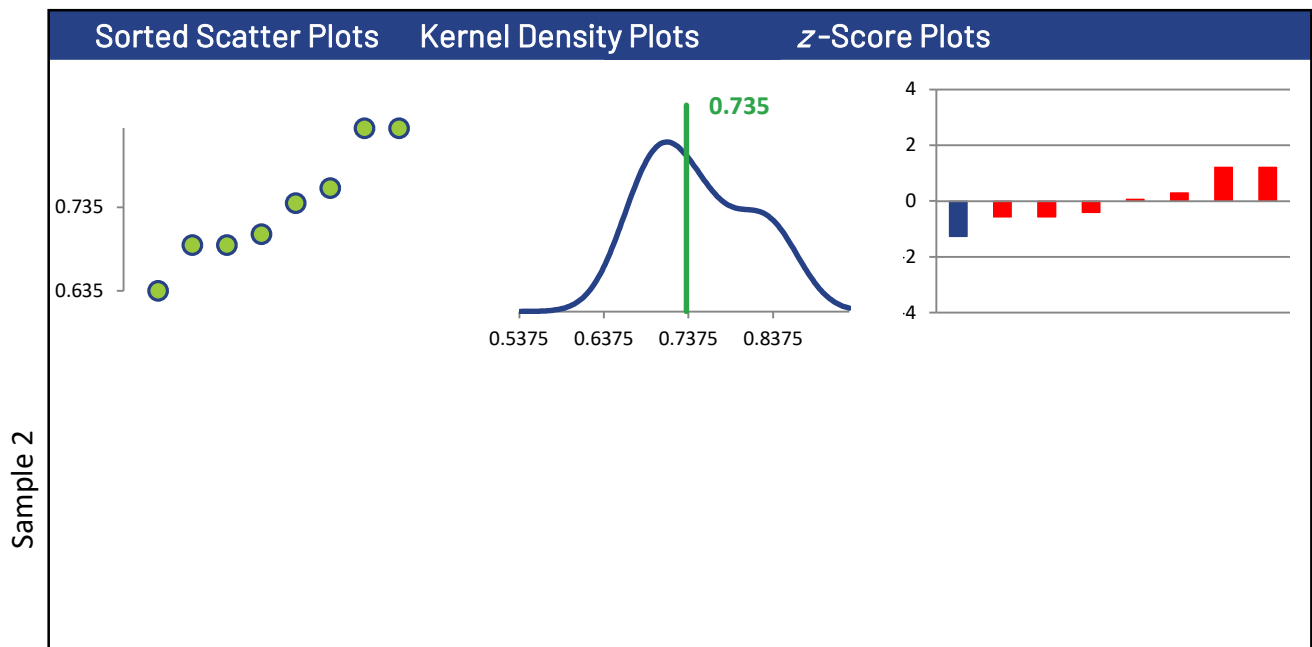
Not Spiked

Statistic	C71-1	C71-2	C71-3	C71-4
N	8	0	0	0
Median µg/g	0.722			
Robust Mean µg/g	0.735			
U µg/g	0.0348			
Robust Standard Deviation µg/g	0.0787			
Regression Standard Deviation µg/g				
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/g	0.0787			
Outliers	0	2	0	0
z >3.0	0	0	0	0
2< z <3	0	0	0	0

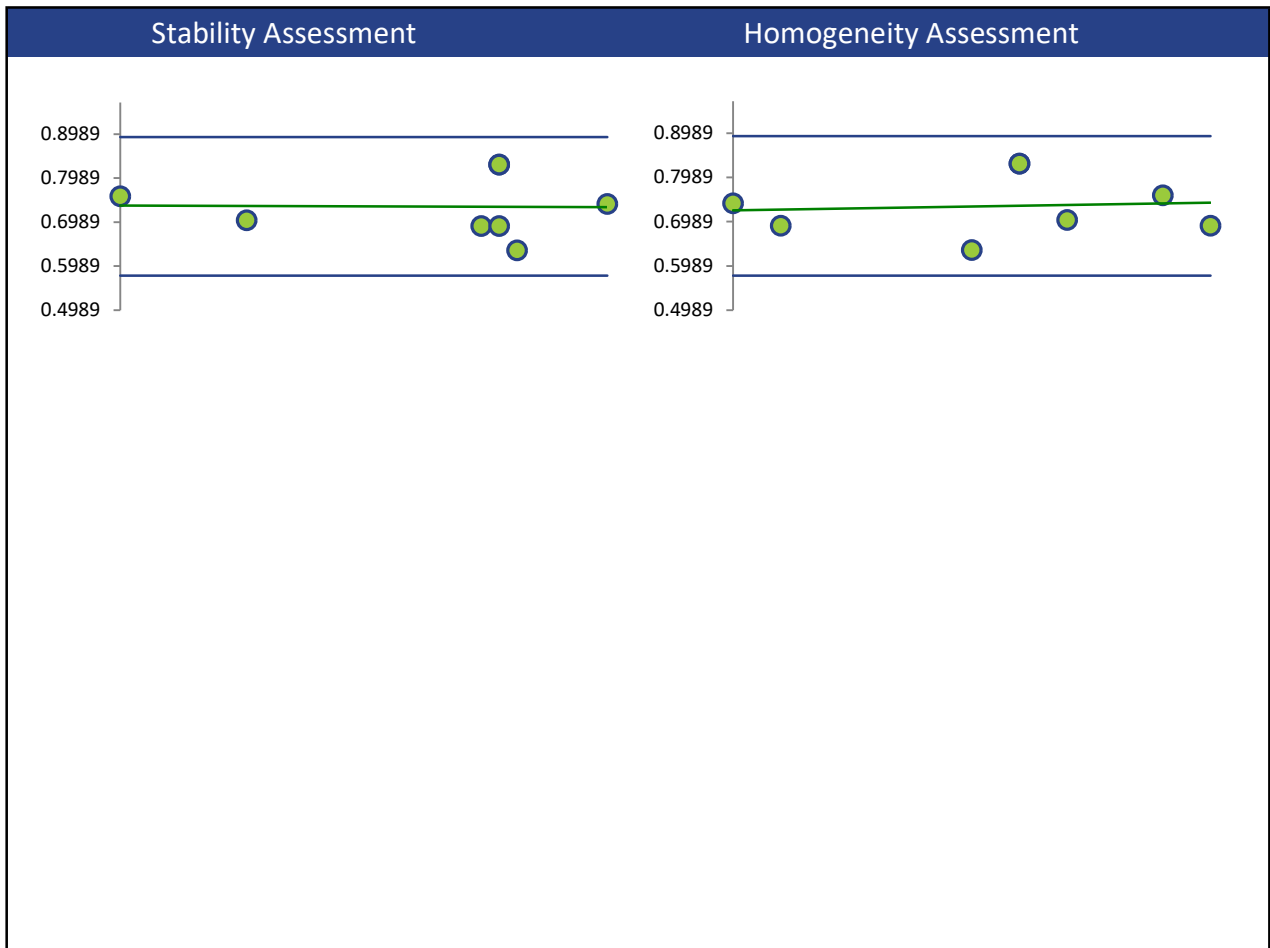
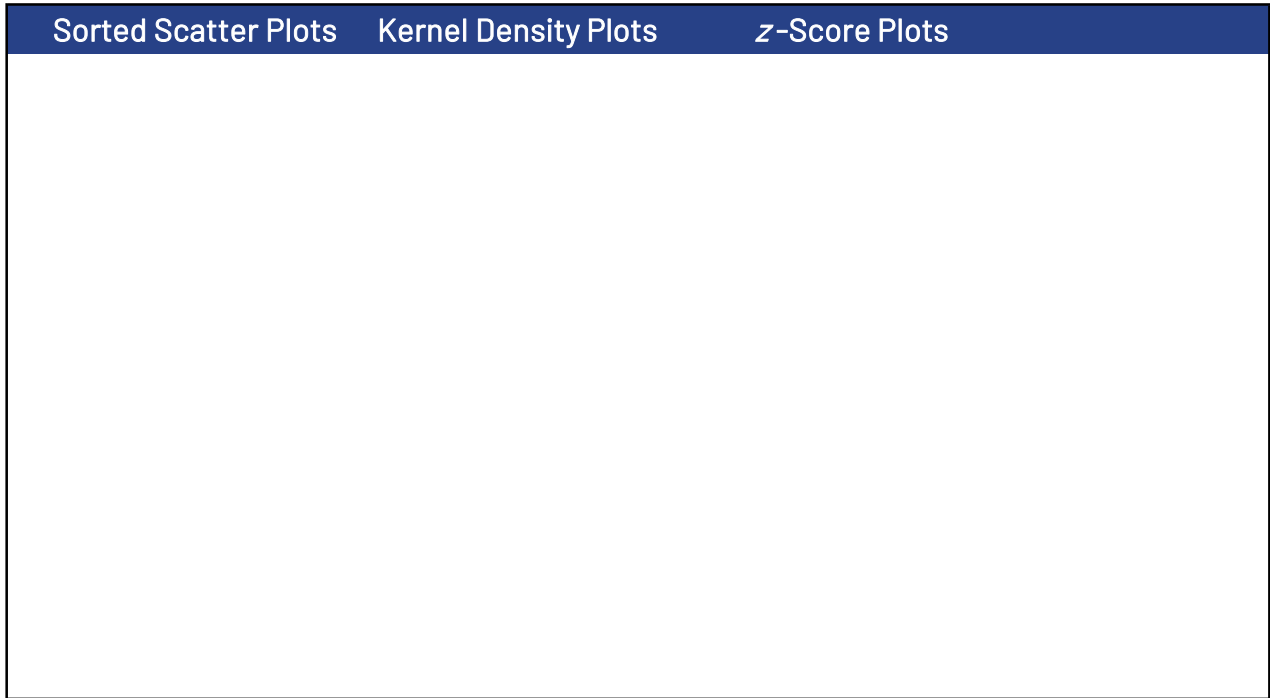
Methods Used

Method	C71-1	C71-2	C71-3	C71-4
LC/MS (Blue)	1	0	0	0
LC-MS/MS (Red)	7	0	0	0

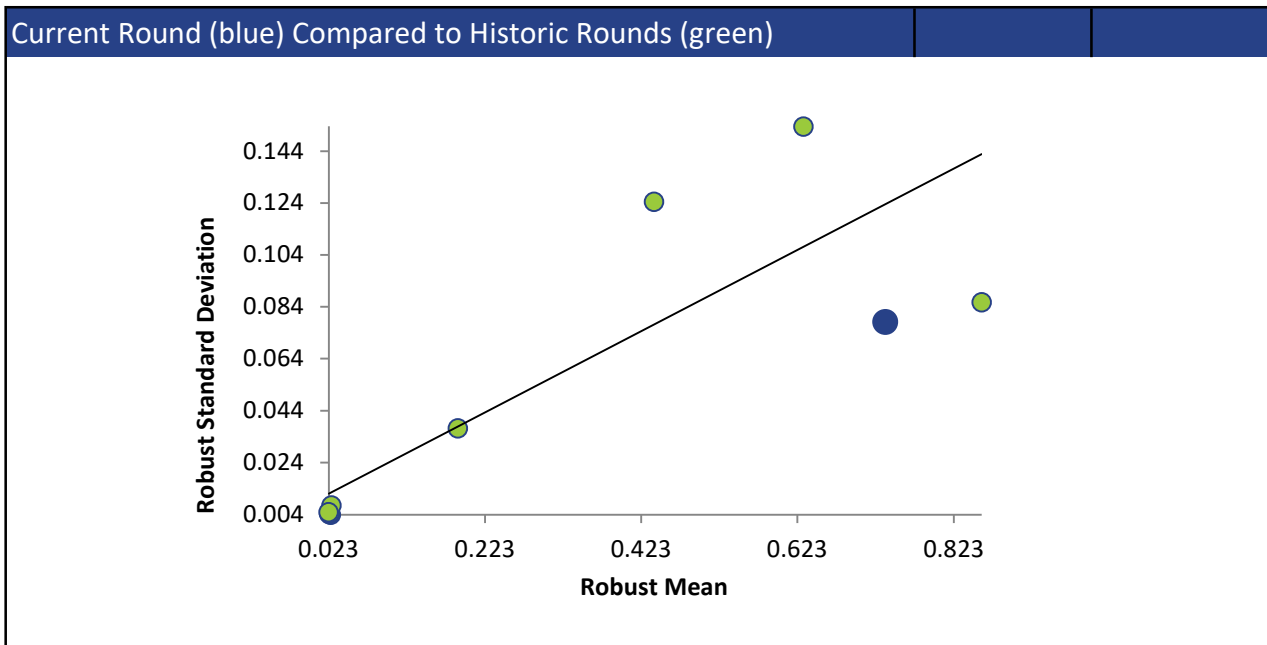
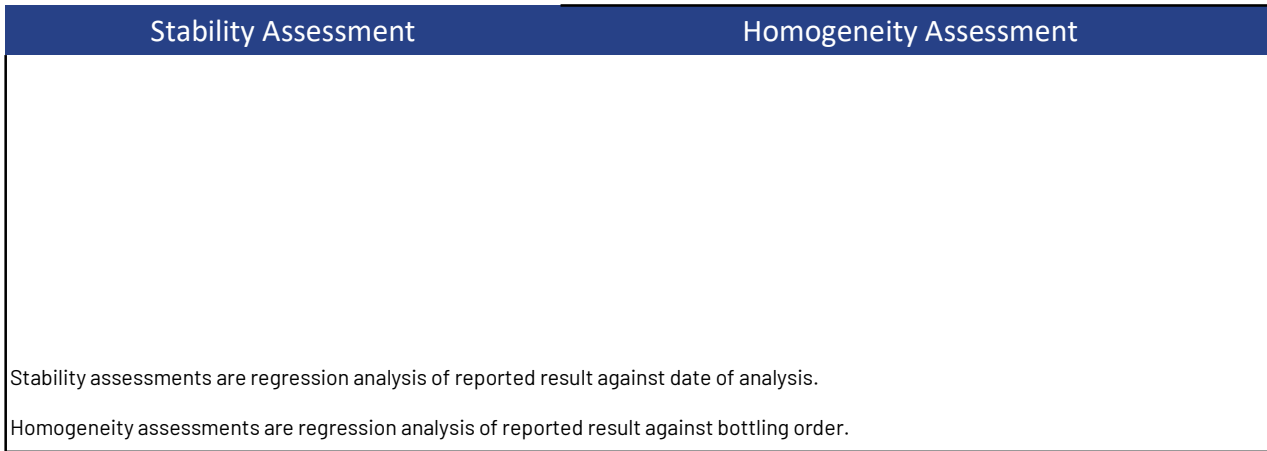
All summary stats and the plots below are based on the data excluding any flagged outliers



METHIOCARB



METHIOCARB



METHOMYL

Summary Statistics

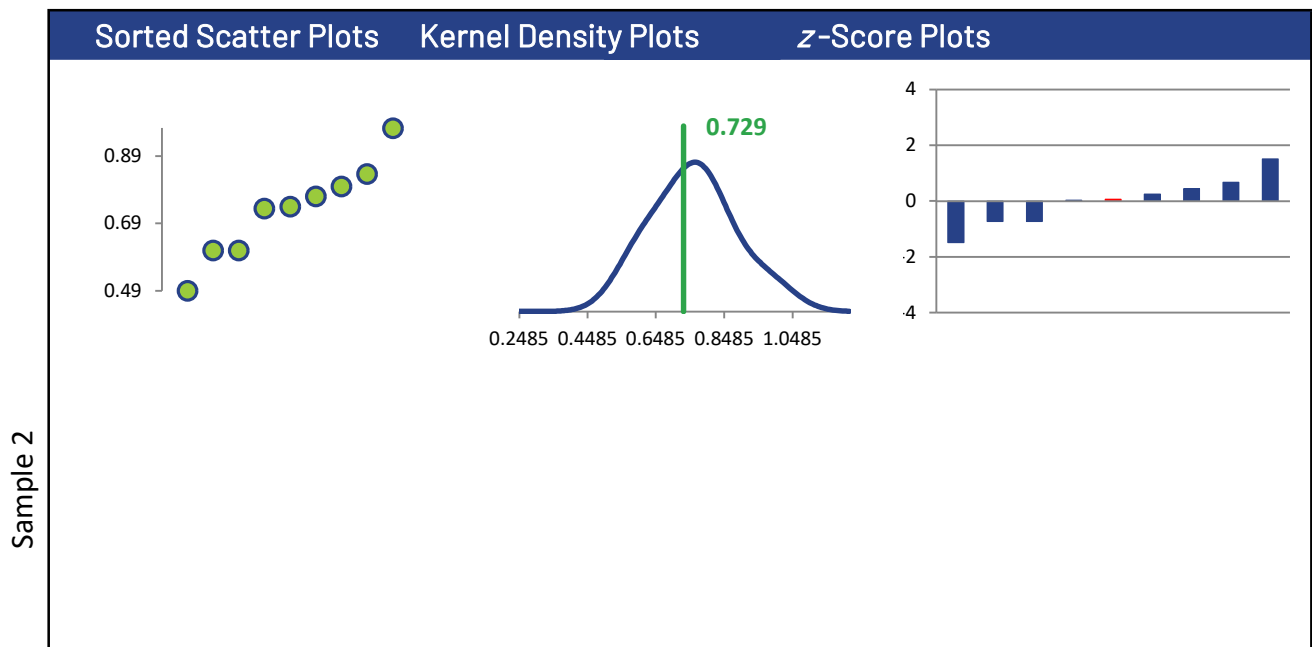
Not Spiked

Statistic	C71-1	C71-2	C71-3	C71-4
N	9	0	0	0
Median µg/g	0.740			
Robust Mean µg/g	0.729			
U µg/g	0.0675			
Robust Standard Deviation µg/g	0.162			
Regression Standard Deviation µg/g				
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/g	0.162			
Outliers	0	2	0	0
z >3.0	0	0	0	0
2< z <3	0	0	0	0

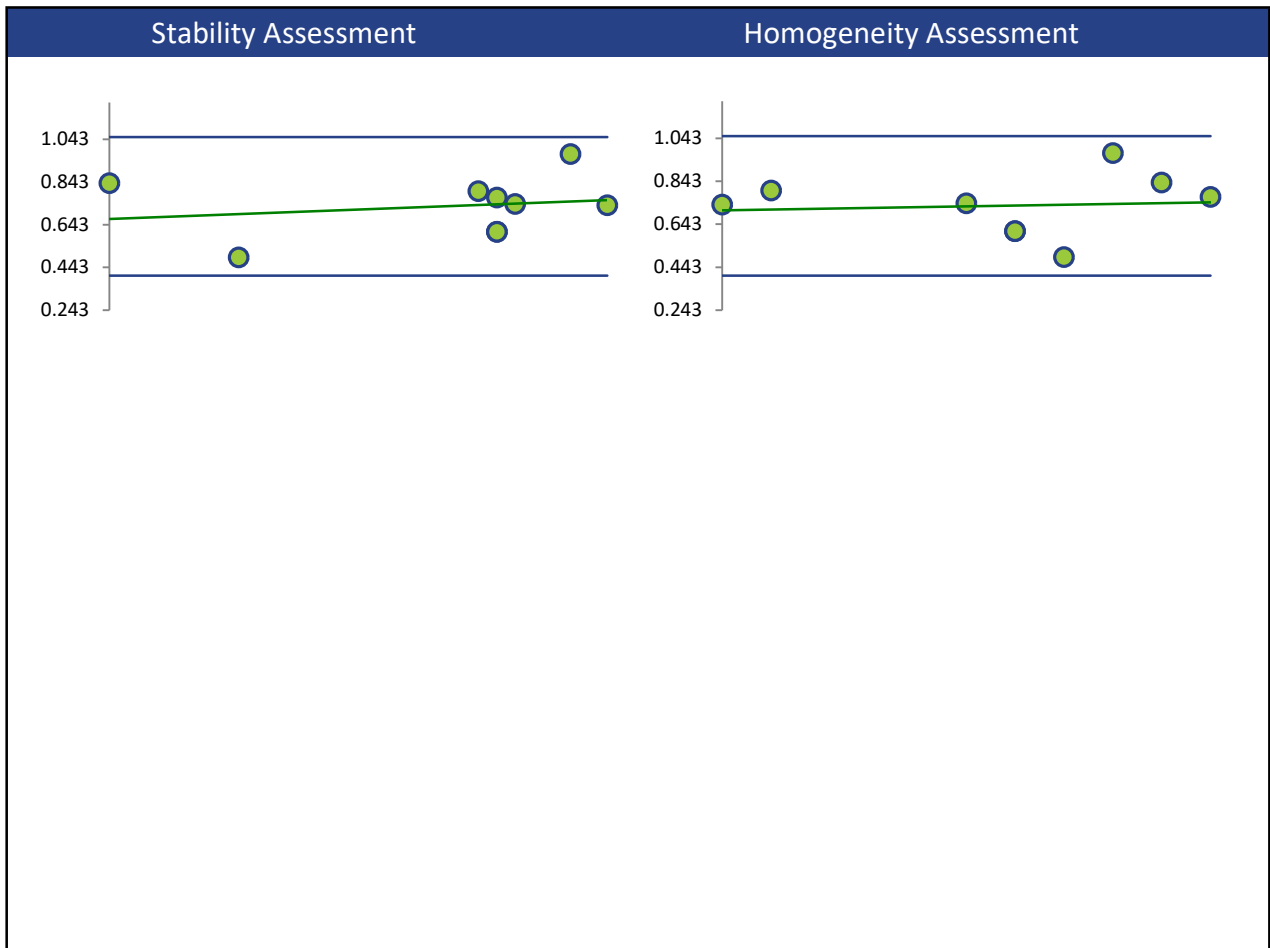
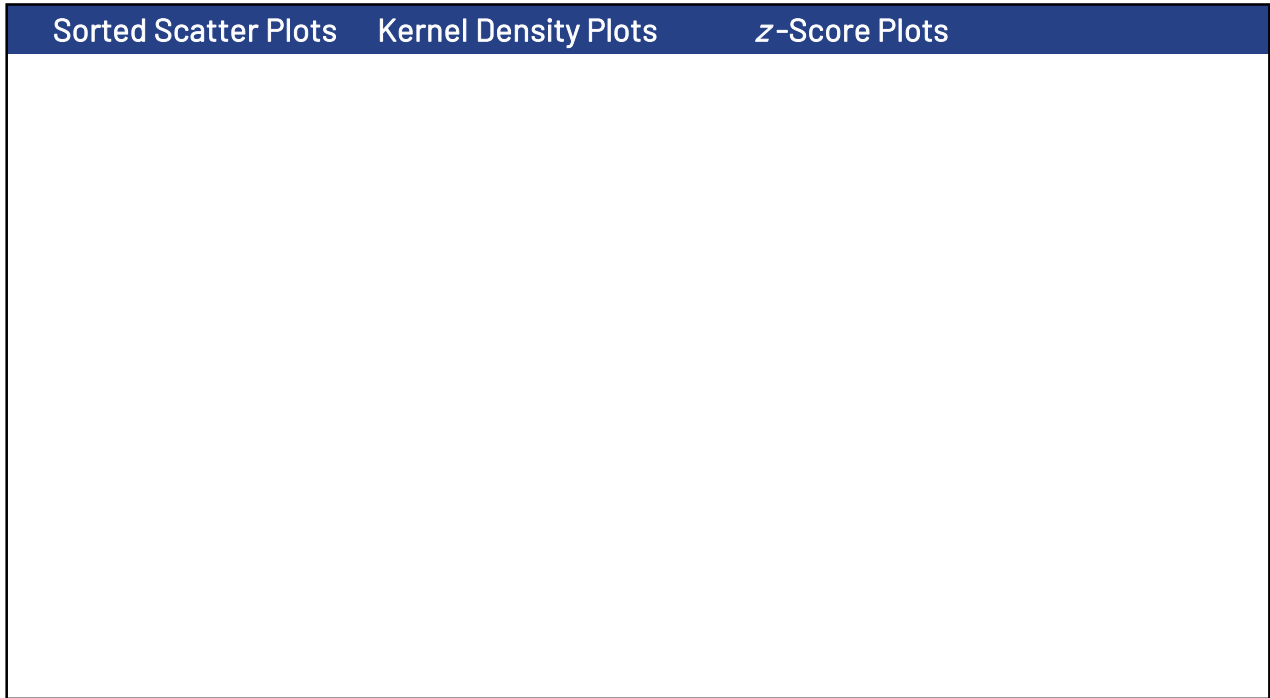
Methods Used

Method	C71-1	C71-2	C71-3	C71-4
LC-MS/MS (Blue)	8	0	0	0
LC/MS (Red)	1	0	0	0

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



METHOMYL



METHOMYL

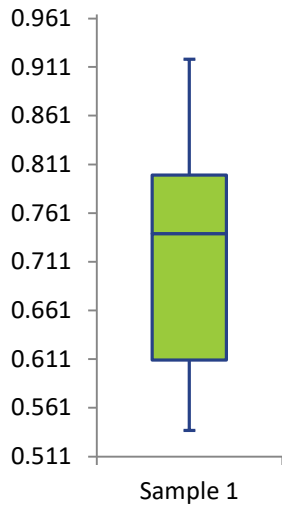
Stability Assessment Homogeneity Assessment

Sample 4

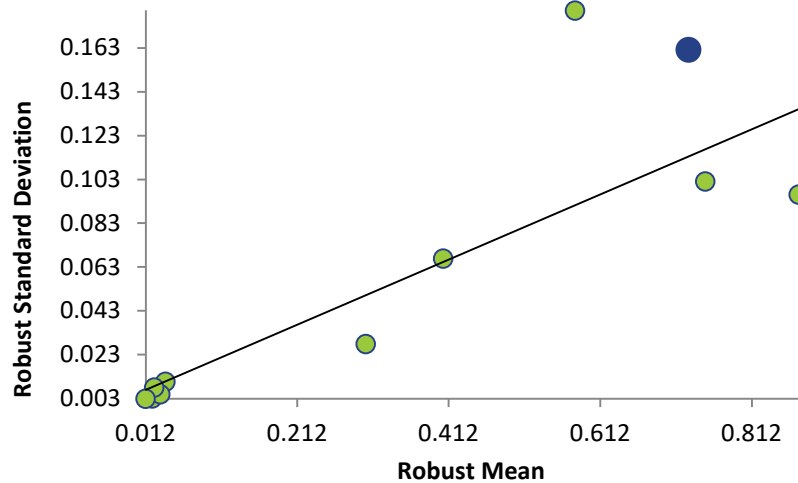
Stability assessments are regression analysis of reported result against date of analysis.

Homogeneity assessments are regression analysis of reported result against bottling order.

Box and Whisker Plots



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



MYCLOBUTANIL

Summary Statistics

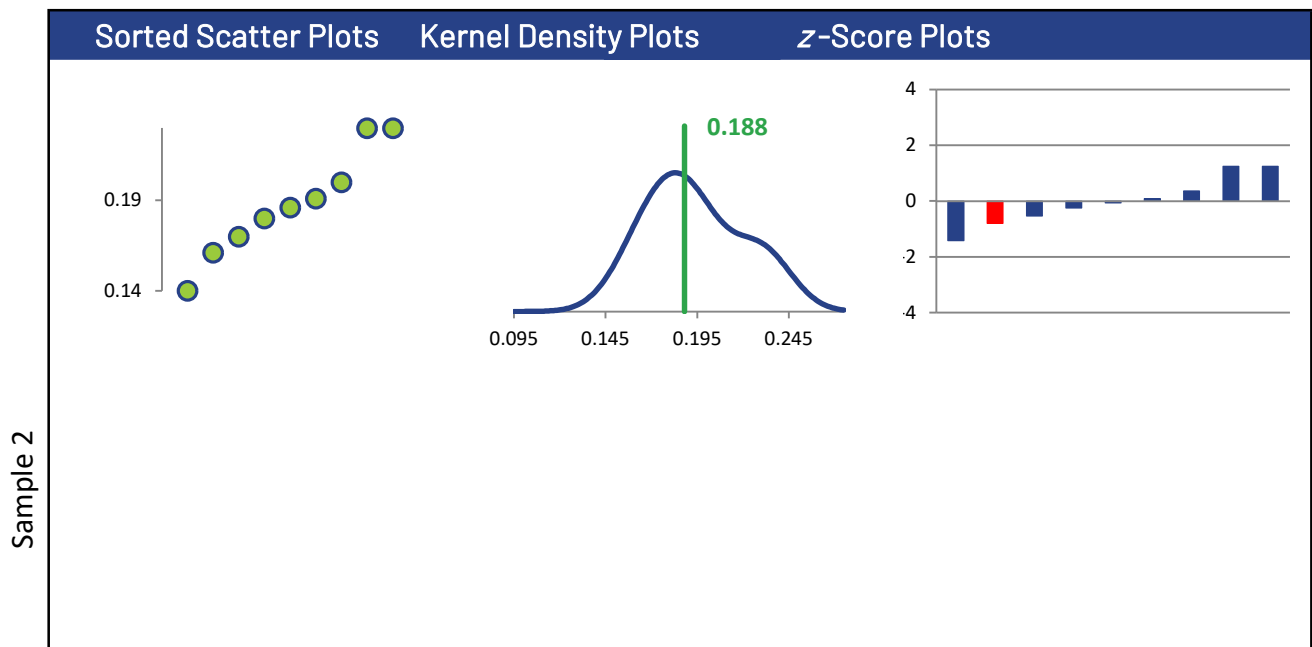
Not Spiked

Statistic	C71-1	C71-2	C71-3	C71-4
N	9	0	0	0
Median µg/g	0.186			
Robust Mean µg/g	0.188			
U µg/g	0.0141			
Robust Standard Deviation µg/g	0.0338			
Regression Standard Deviation µg/g				
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/g	0.0338			
Outliers	0	2	0	0
z >3.0	0	0	0	0
2< z <3	0	0	0	0

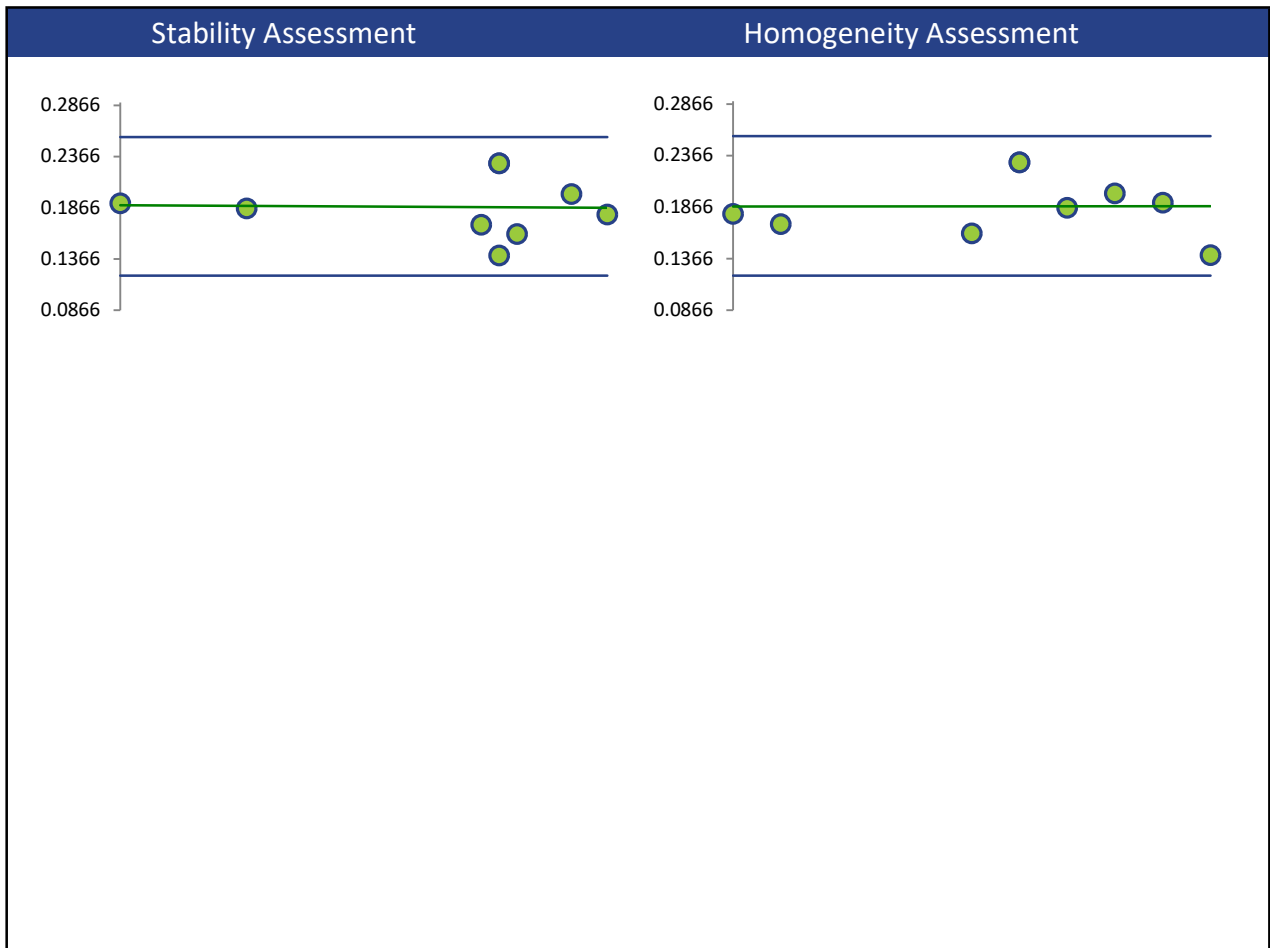
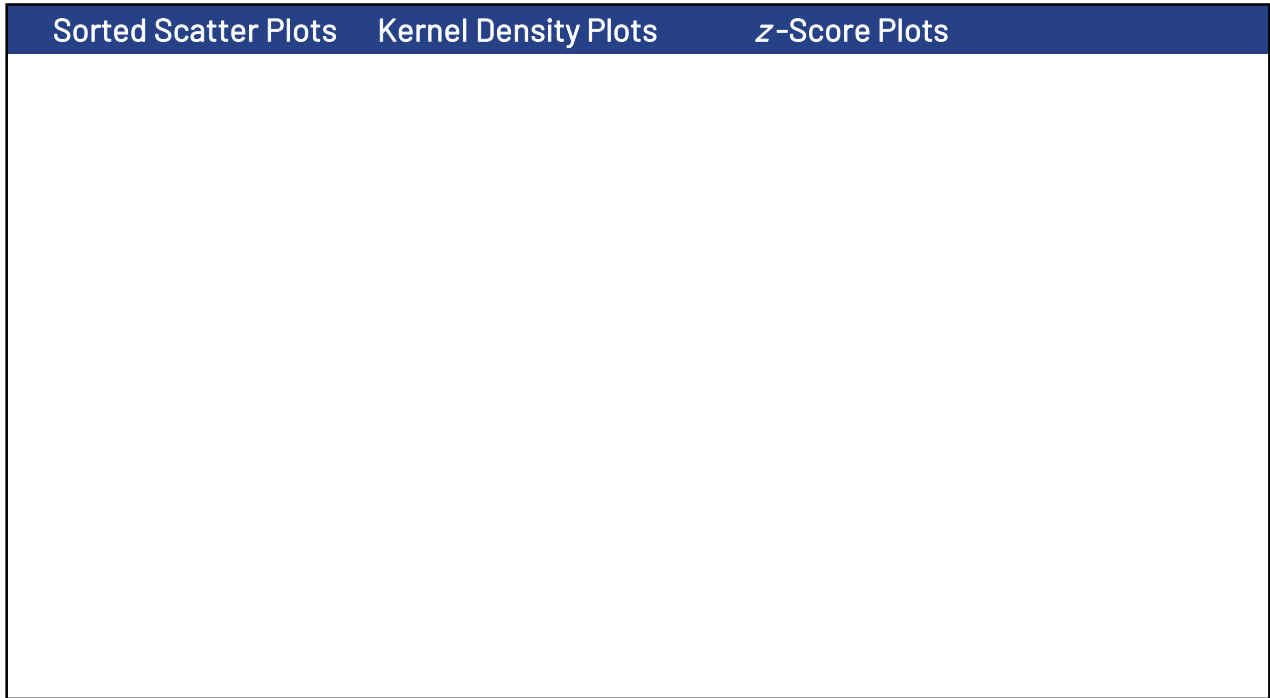
Methods Used

Method	C71-1	C71-2	C71-3	C71-4
LC-MS/MS (Blue)	8	0	0	0
LC/MS (Red)	1	0	0	0

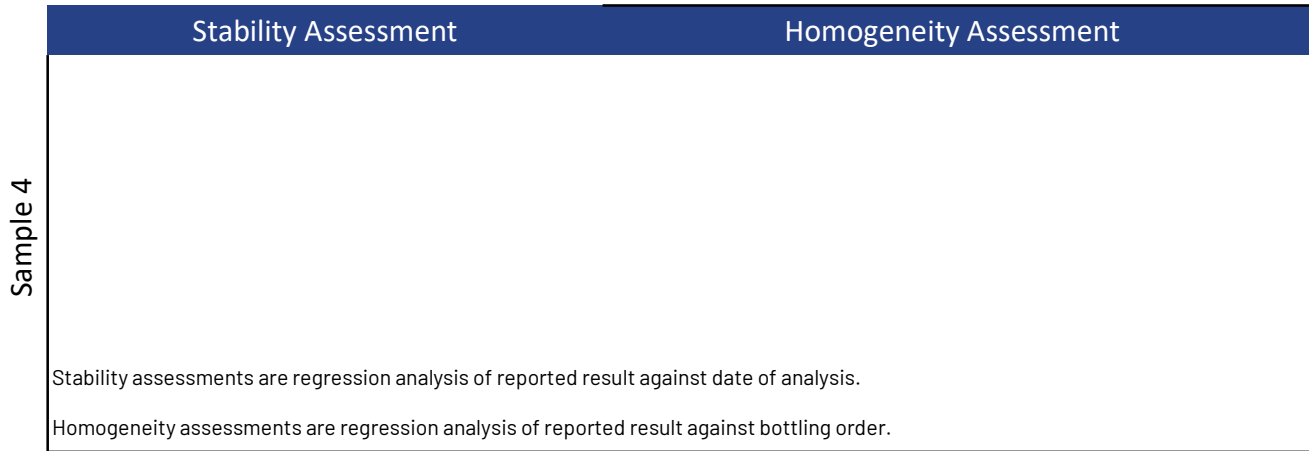
All summary stats and the plots below are based on the data excluding any flagged outliers



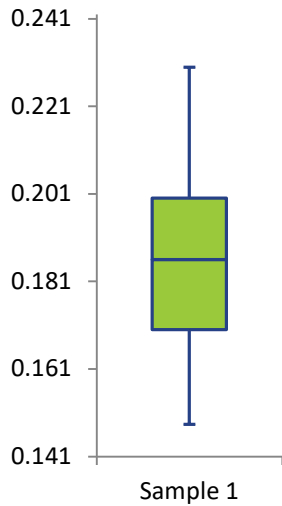
MYCLOBUTANIL



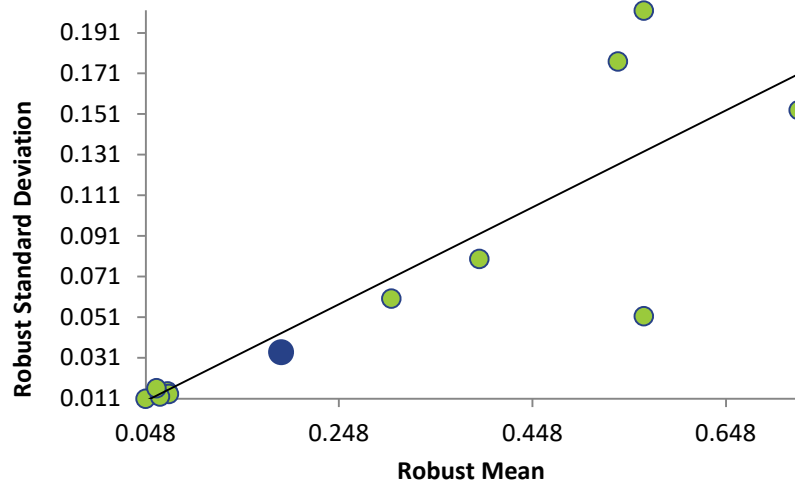
MYCLOBUTANIL



Box and Whisker Plots



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



OXAMYL

Summary Statistics

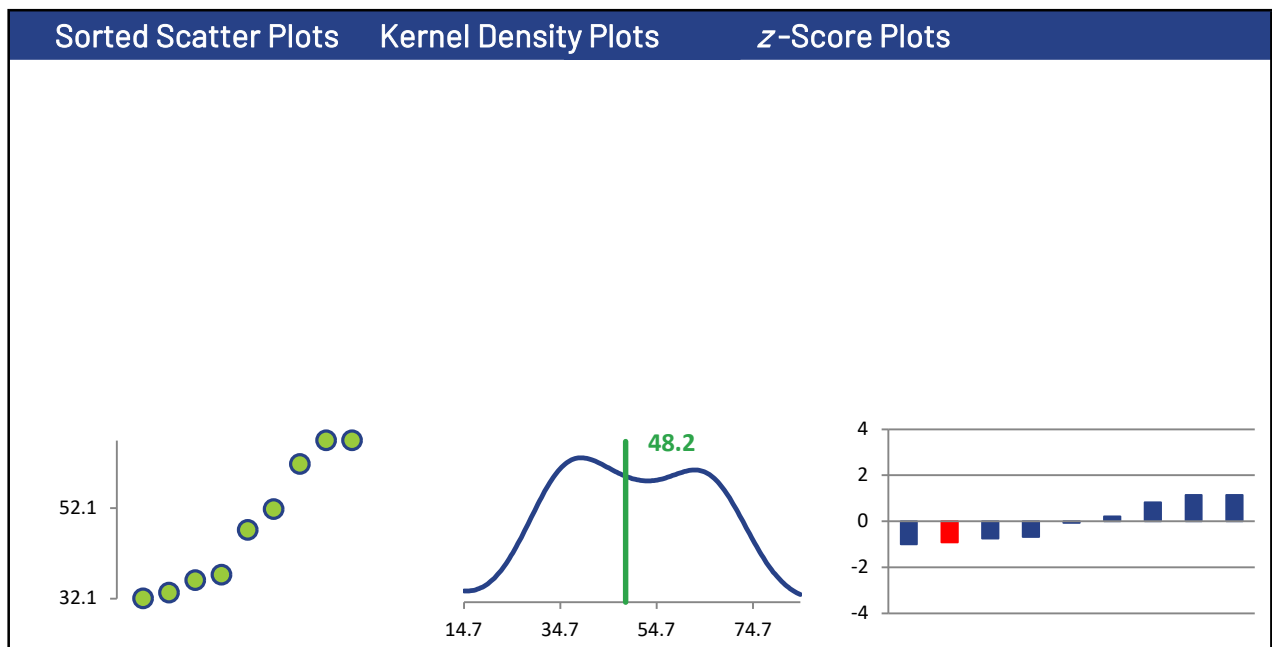
Not Spiked

Statistic	C71-1	C71-2	C71-3	C71-4
N	0	9	0	0
Median µg/g		47.2		
Robust Mean µg/g		48.2		
U µg/g		6.79		
Robust Standard Deviation µg/g		16.3		
Regression Standard Deviation µg/g				
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/g		16.3		
Outliers	2	0	0	0
z >3.0	0	0	0	0
2< z <3	0	0	0	0

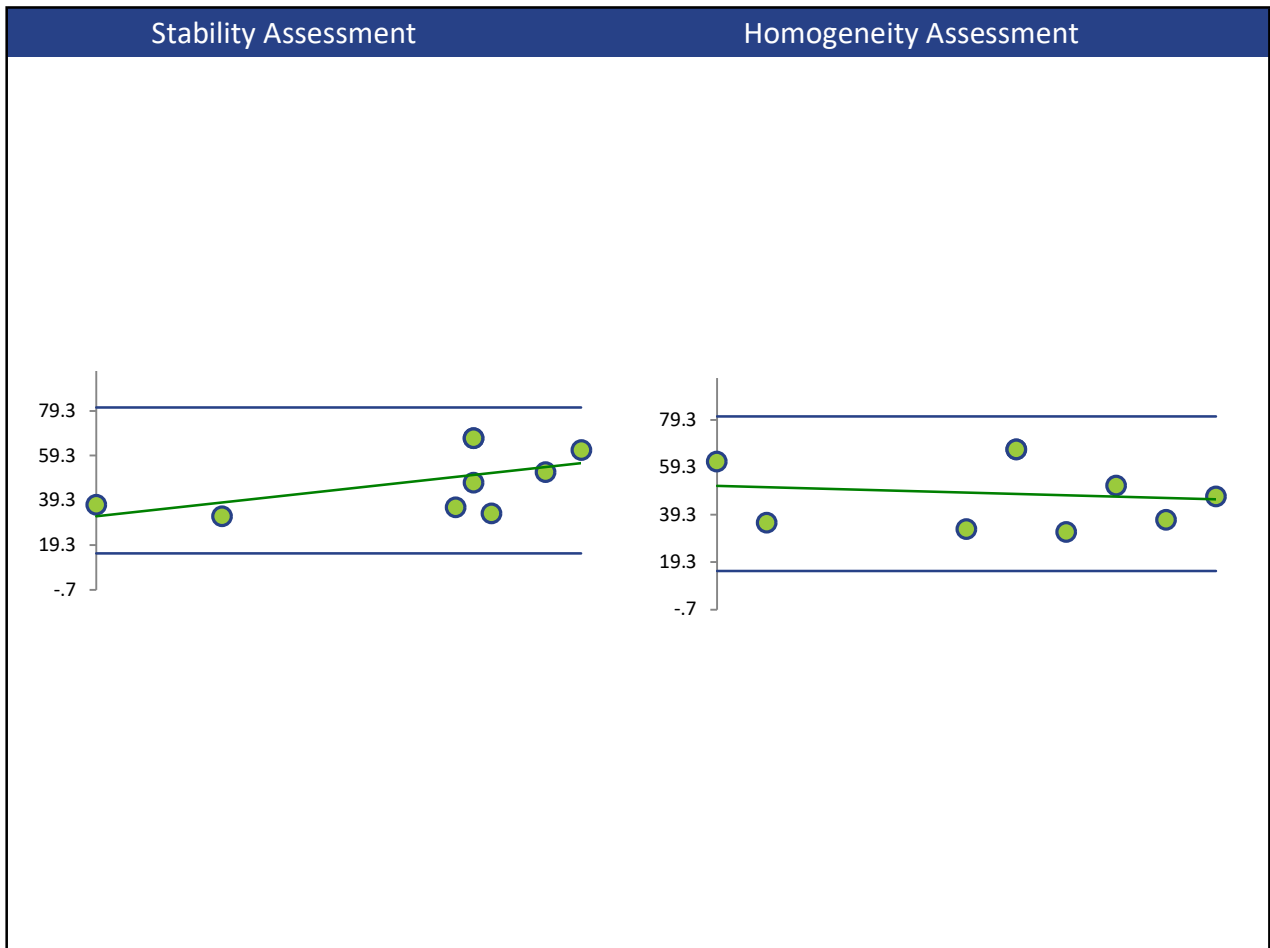
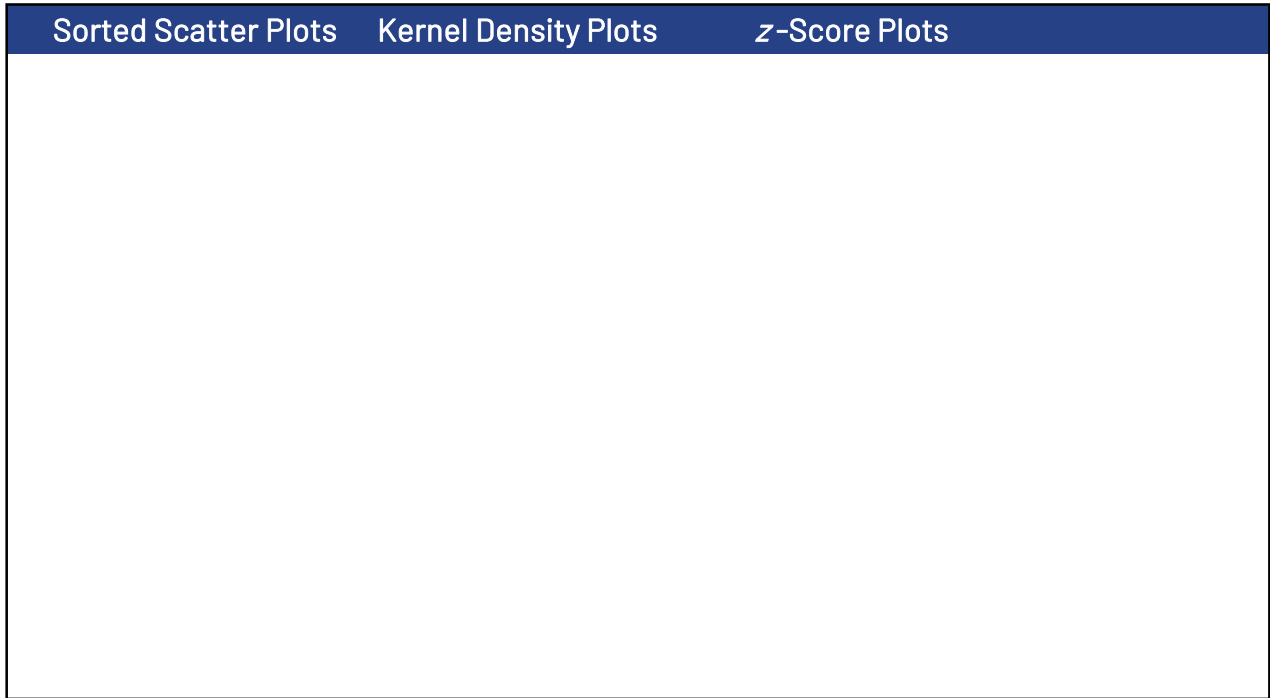
Methods Used

Method	C71-1	C71-2	C71-3	C71-4
LC-MS/MS (Blue)	0	8	0	0
LC/MS (Red)	0	1	0	0

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



OXAMYL



OXAMYL

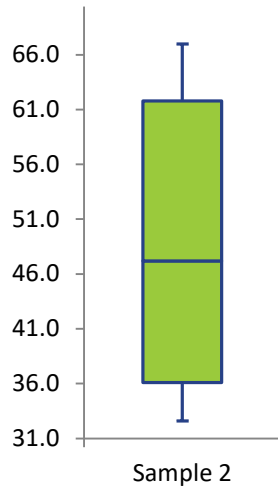
Stability Assessment Homogeneity Assessment

Sample 4

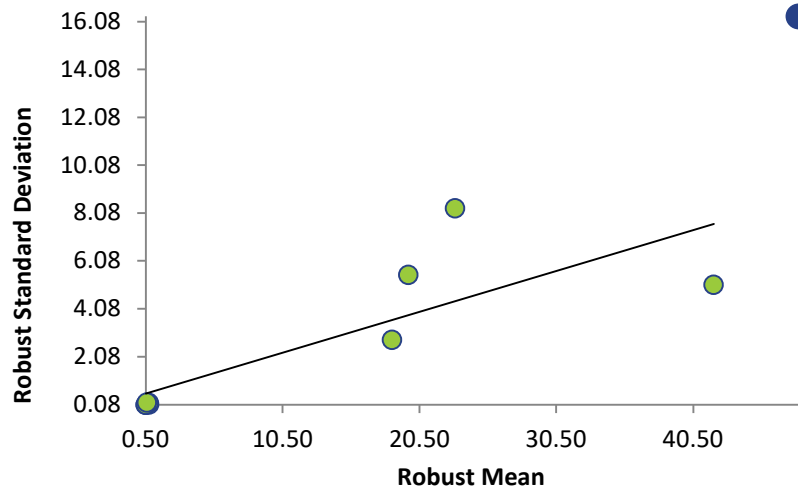
Stability assessments are regression analysis of reported result against date of analysis.

Homogeneity assessments are regression analysis of reported result against bottling order.

Box and Whisker Plots



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



PACLOBUTRAZOL

Summary Statistics

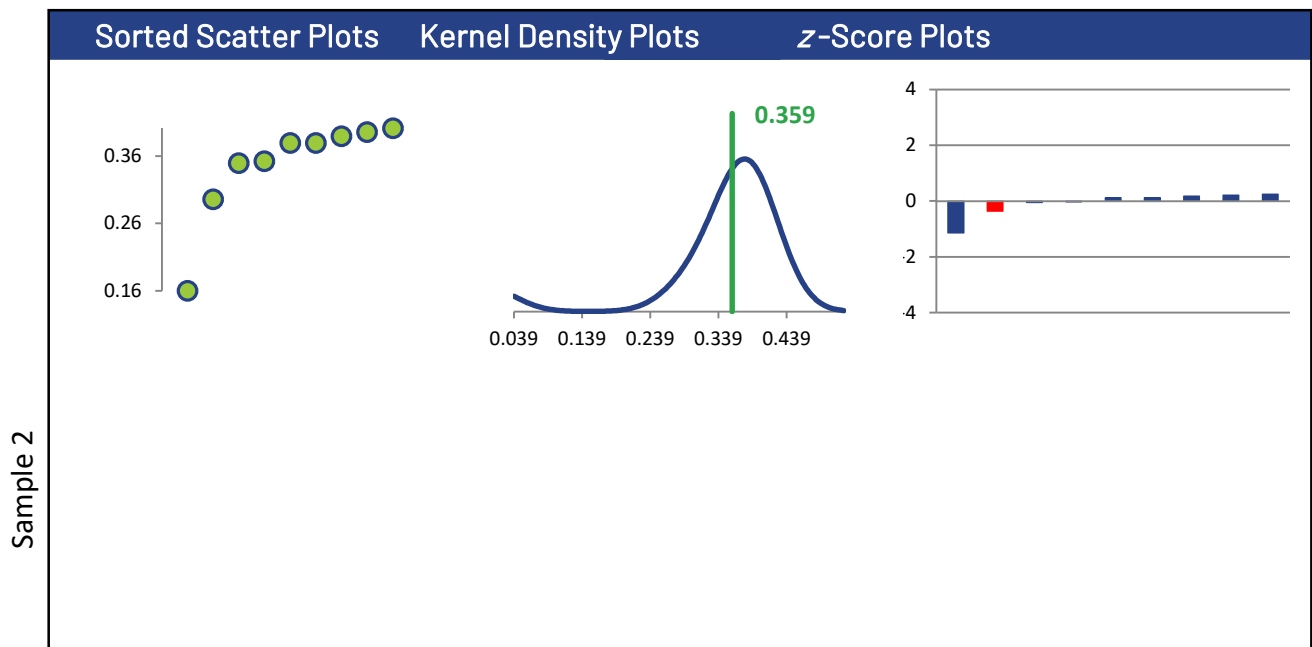
Not Spiked

Statistic	C71-1	C71-2	C71-3	C71-4
N	9	0	0	0
Median µg/g	0.380			
Robust Mean µg/g	0.359			
U µg/g	0.0199			
Robust Standard Deviation µg/g	0.0478			
Regression Standard Deviation µg/g				
Stability Flag				
Homogeneity Flag	Homogeneity			
Standard Deviation Used (SDPA) µg/g	0.174			
Outliers	0	2	0	0
z >3.0	0	0	0	0
2< z <3	0	0	0	0

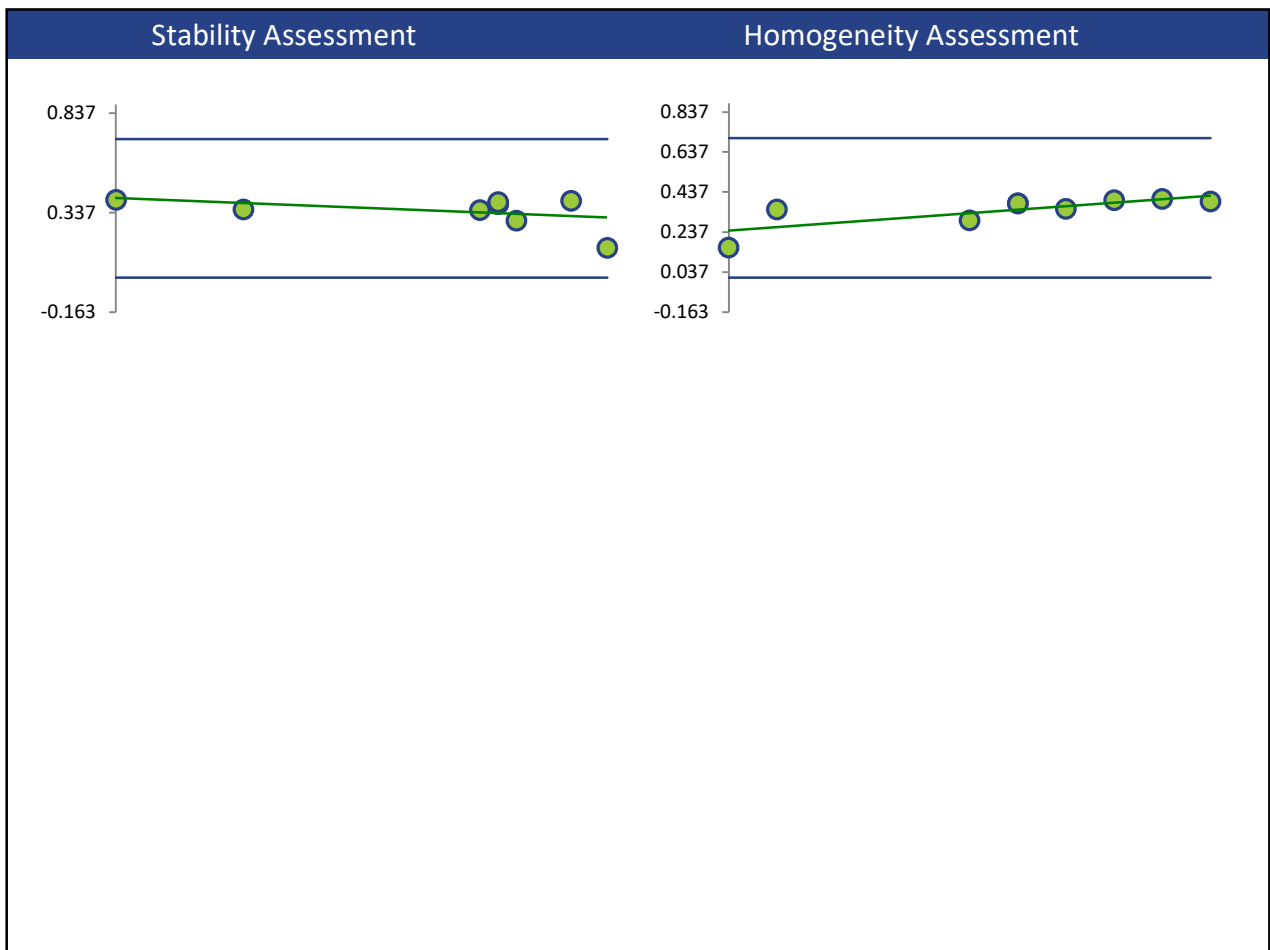
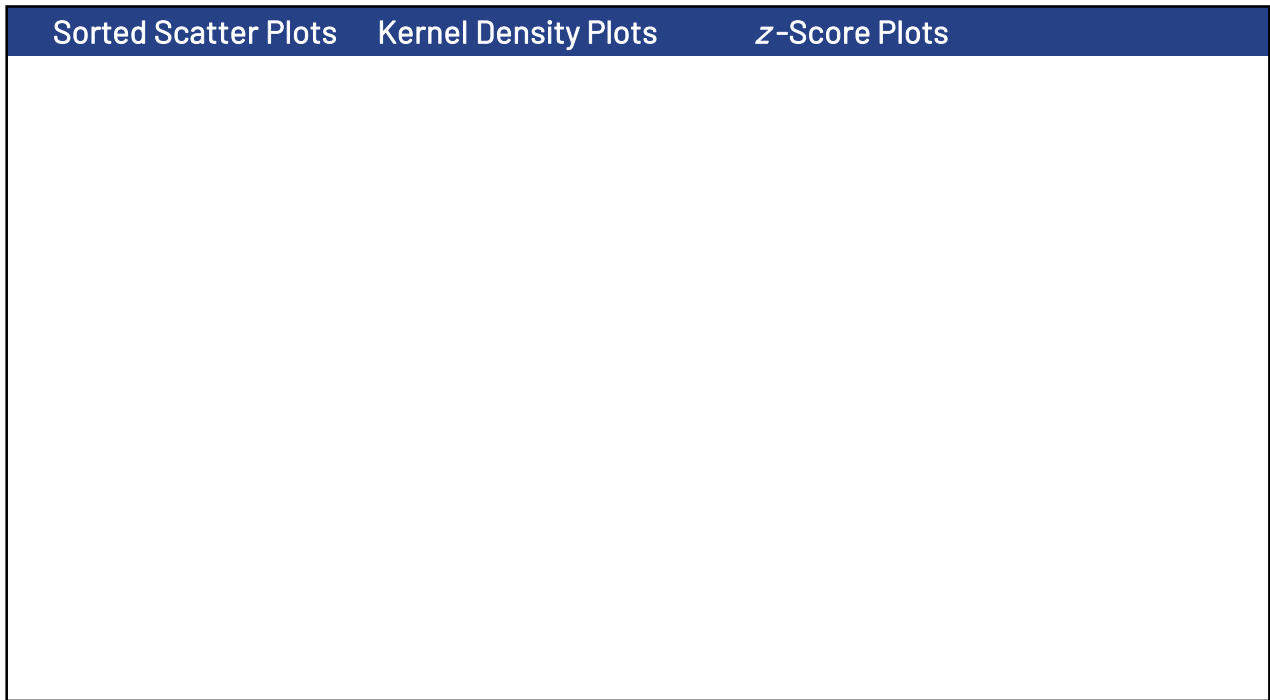
Methods Used

Method	C71-1	C71-2	C71-3	C71-4
LC-MS/MS (Blue)	8	0	0	0
LC/MS (Red)	1	0	0	0

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



PACLOBUTRAZOL



PACLOBUTRAZOL

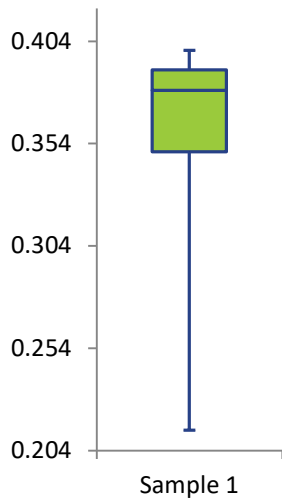
Stability Assessment Homogeneity Assessment

Sample 4

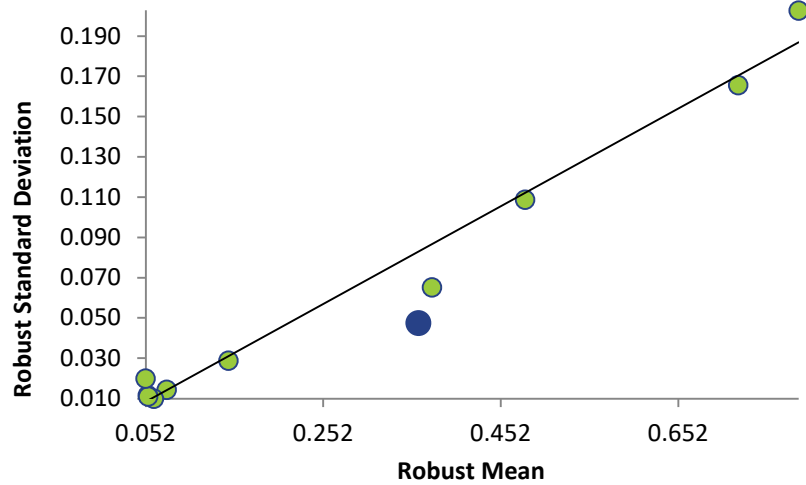
Stability assessments are regression analysis of reported result against date of analysis.

Homogeneity assessments are regression analysis of reported result against bottling order.

Box and Whisker Plots



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



PROPOXUR (BAYGON)

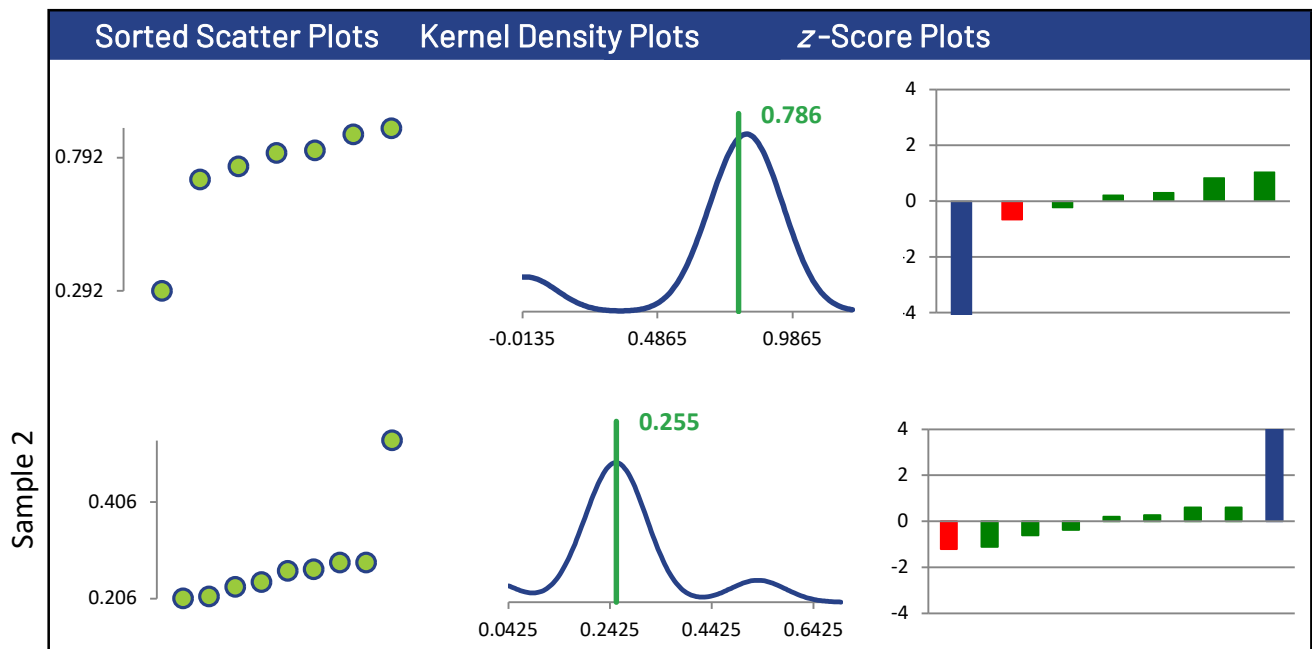
Summary Statistics

Statistic	C71-1	C71-2	C71-3	C71-4
N	7	9	0	0
Median µg/g	0.810	0.263		
Robust Mean µg/g	0.786	0.255		
U µg/g	0.0534	0.0170		
Robust Standard Deviation µg/g	0.113	0.0409		
Regression Standard Deviation µg/g				
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/g	0.113	0.0409		
Outliers	0	0	0	0
z >3.0	1	1	0	0
2< z <3	0	0	0	0

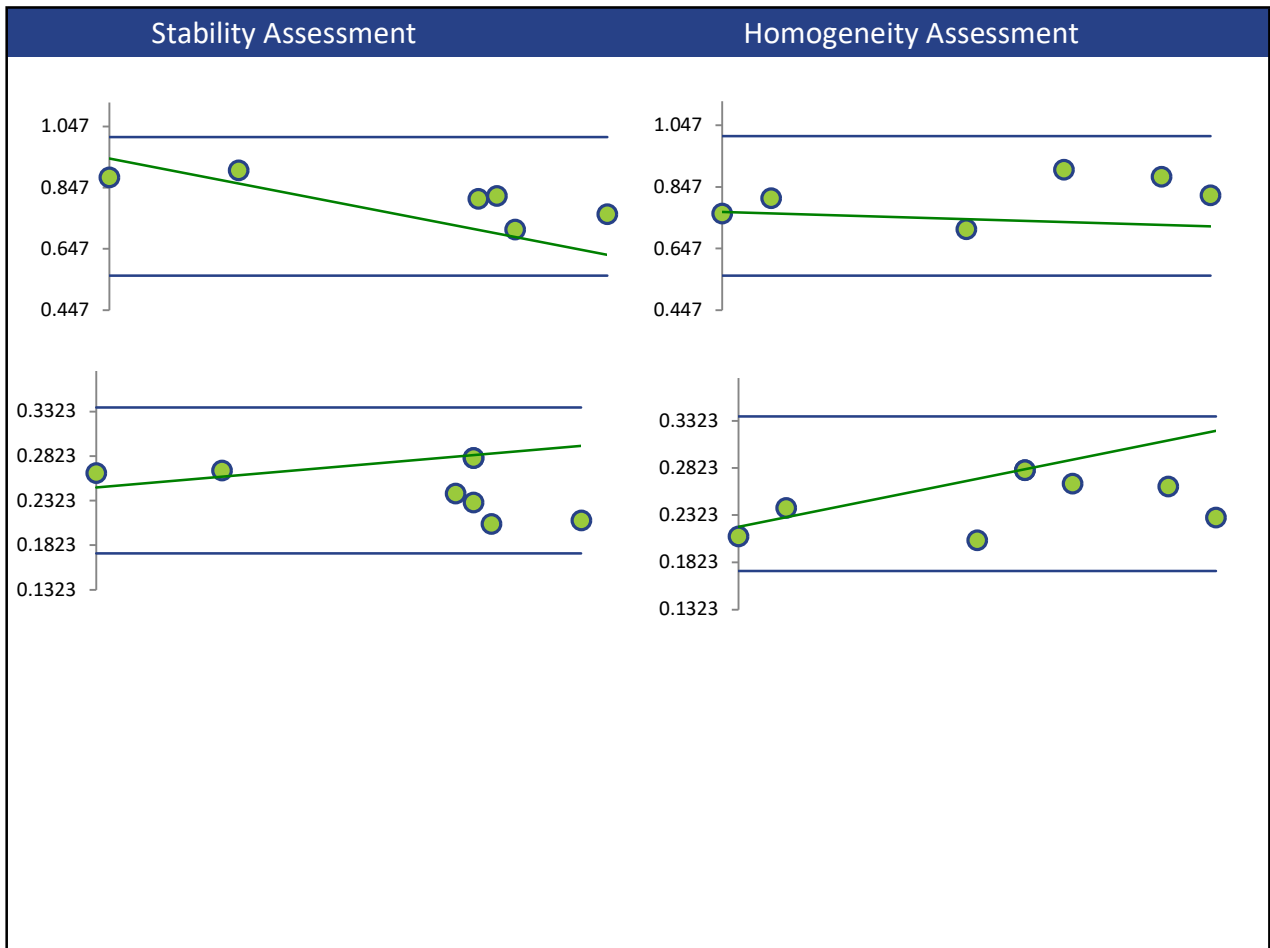
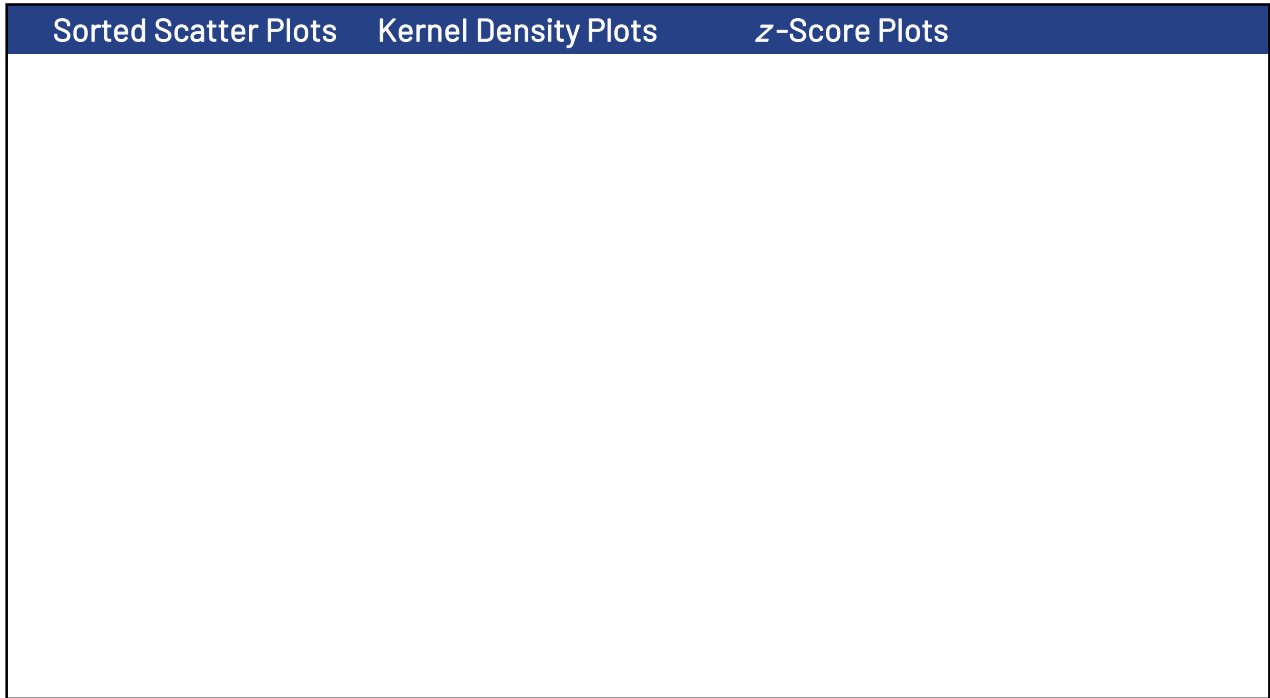
Methods Used

Method	C71-1	C71-2	C71-3	C71-4
GC/MS/MS (Blue)	1	1	0	0
LC/MS (Red)	1	1	0	0
LC-MS/MS (Green)	5	7	0	0

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



PROPOXUR (BAYGON)



PROPOXUR (BAYGON)

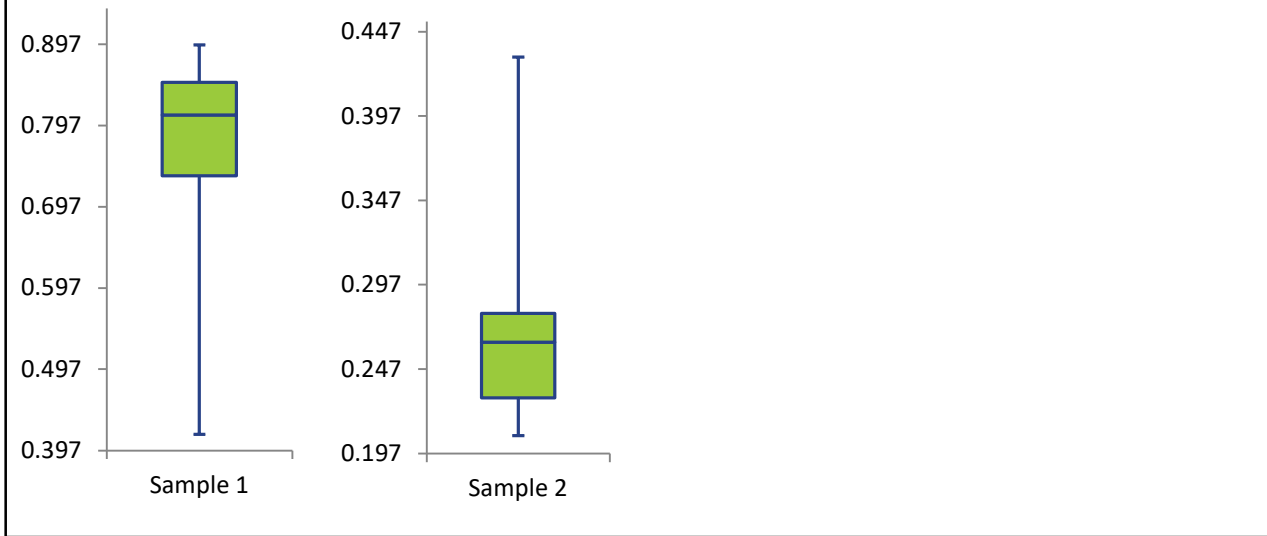
Stability Assessment Homogeneity Assessment

Sample 4

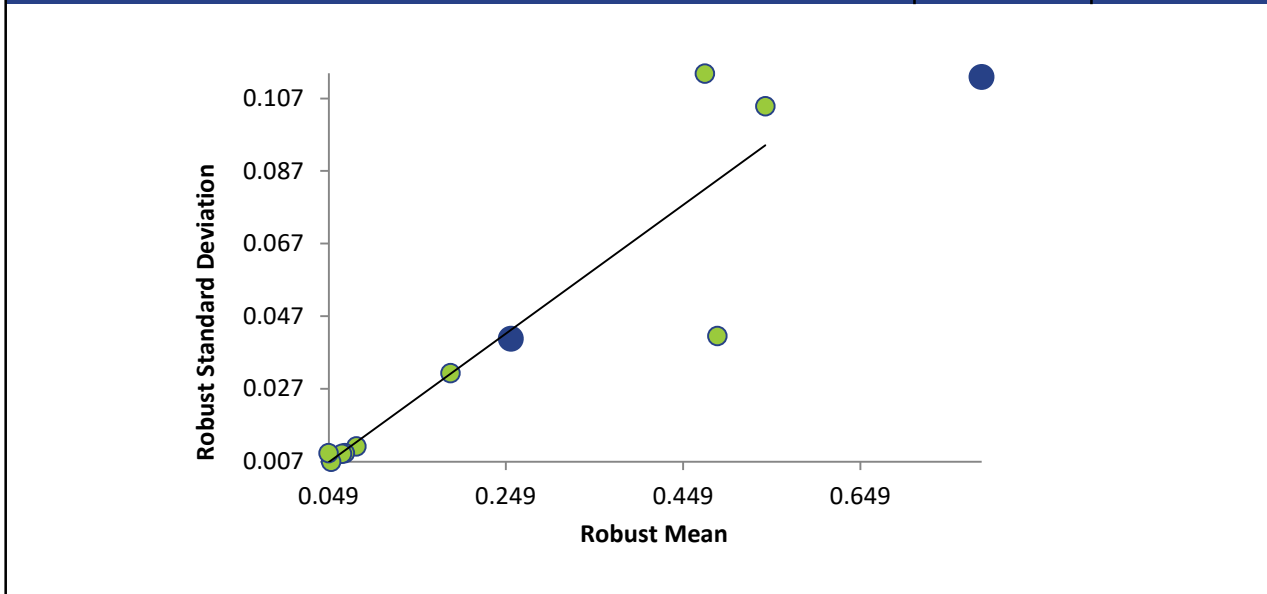
Stability assessments are regression analysis of reported result against date of analysis.

Homogeneity assessments are regression analysis of reported result against bottling order.

Box and Whisker Plots



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



SPIROMESIFEN

Summary Statistics

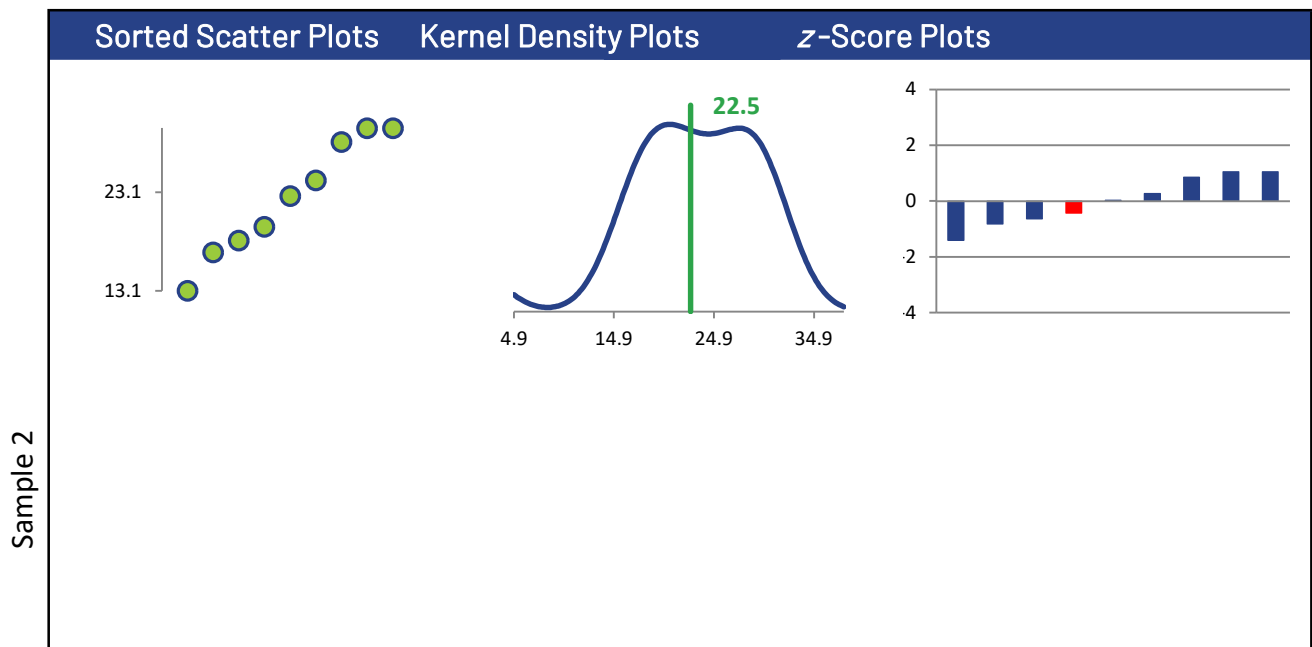
Not Spiked

Statistic	C71-1	C71-2	C71-3	C71-4
N	9	0	0	0
Median µg/g	22.7			
Robust Mean µg/g	22.5			
U µg/g	2.80			
Robust Standard Deviation µg/g	6.73			
Regression Standard Deviation µg/g				
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/g	6.73			
Outliers	0	2	0	0
z >3.0	0	0	0	0
2< z <3	0	0	0	0

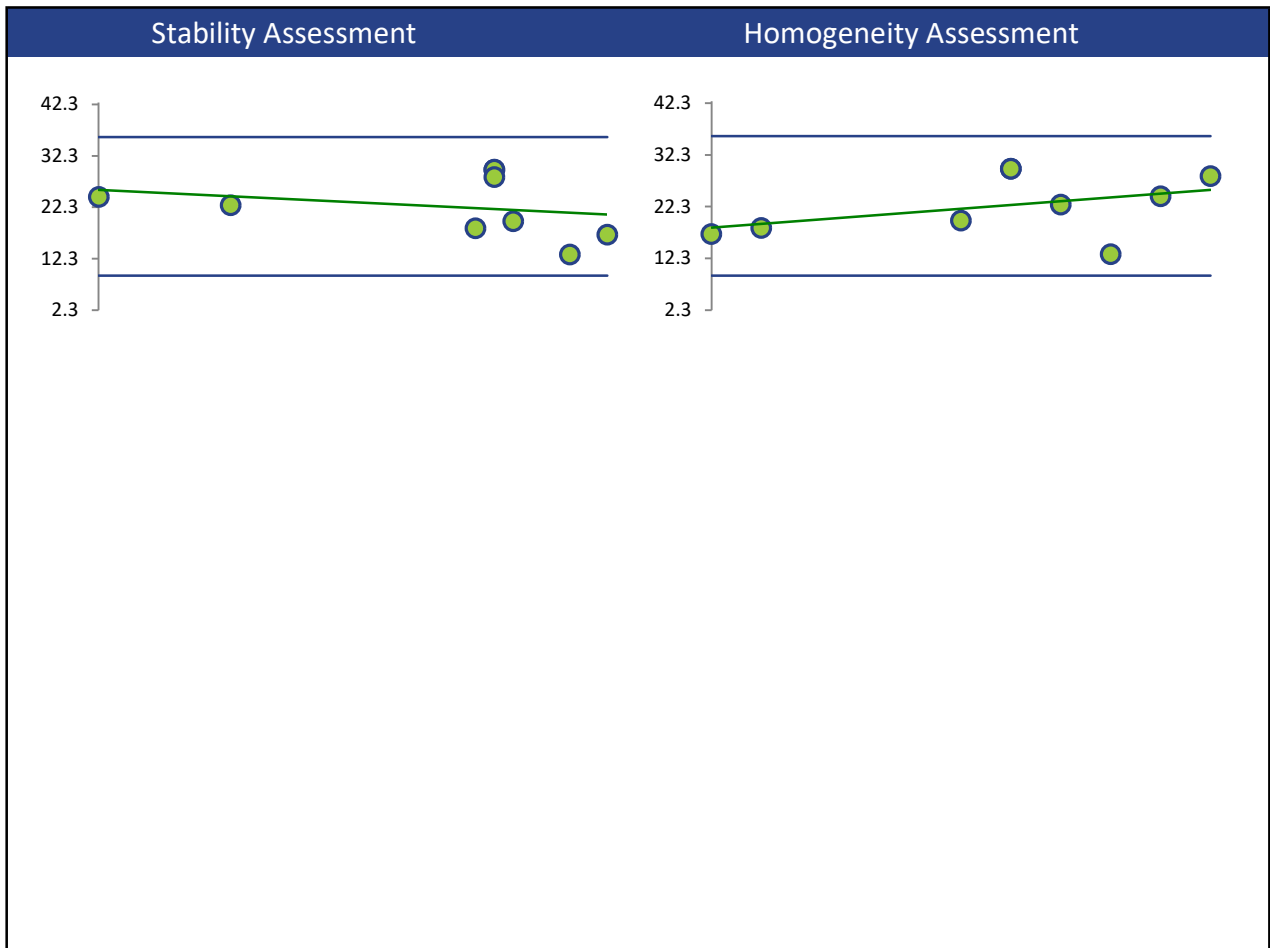
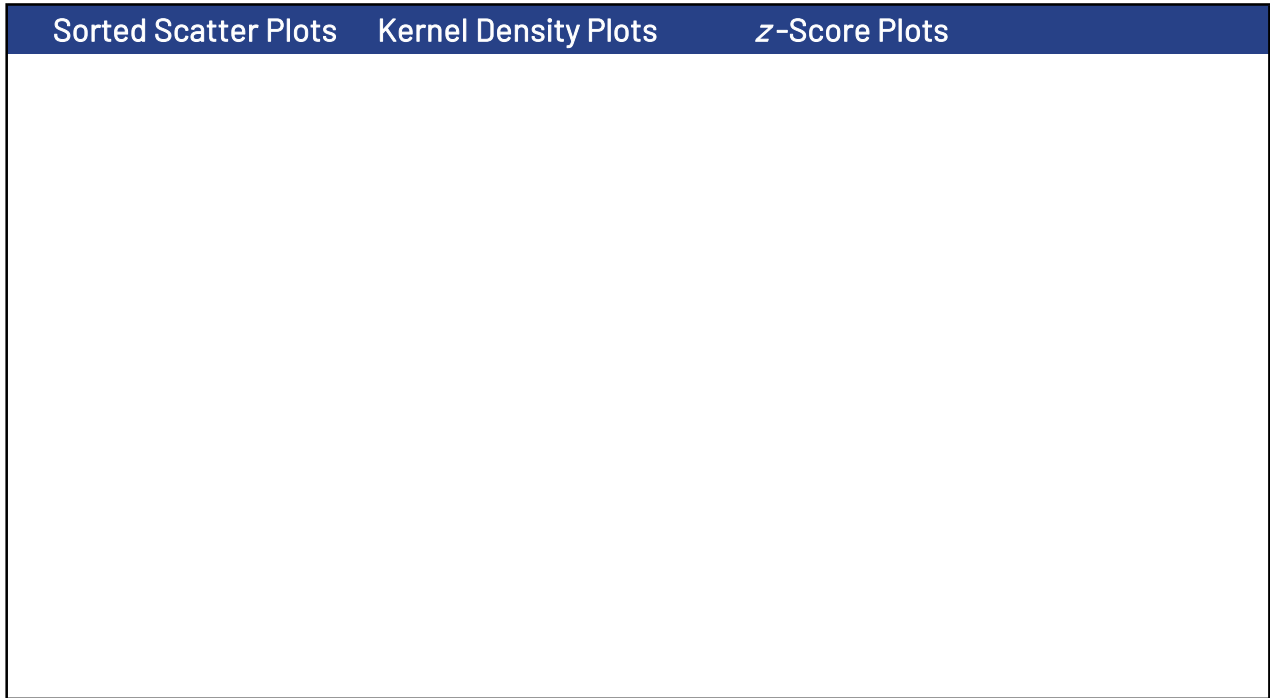
Methods Used

Method	C71-1	C71-2	C71-3	C71-4
LC-MS/MS (Blue)	8	0	0	0
LC/MS (Red)	1	0	0	0

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



SPIROMESIFEN



SPIROMESIFEN

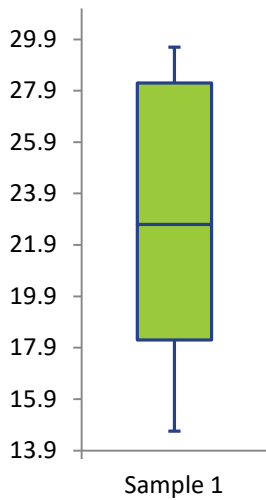
Stability Assessment Homogeneity Assessment

Sample 4

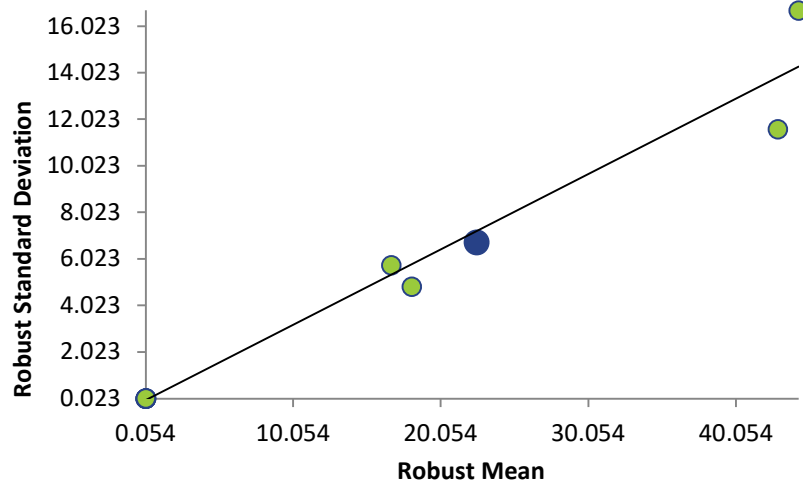
Stability assessments are regression analysis of reported result against date of analysis.

Homogeneity assessments are regression analysis of reported result against bottling order.

Box and Whisker Plots



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



SPIROTETRAMAT

Summary Statistics

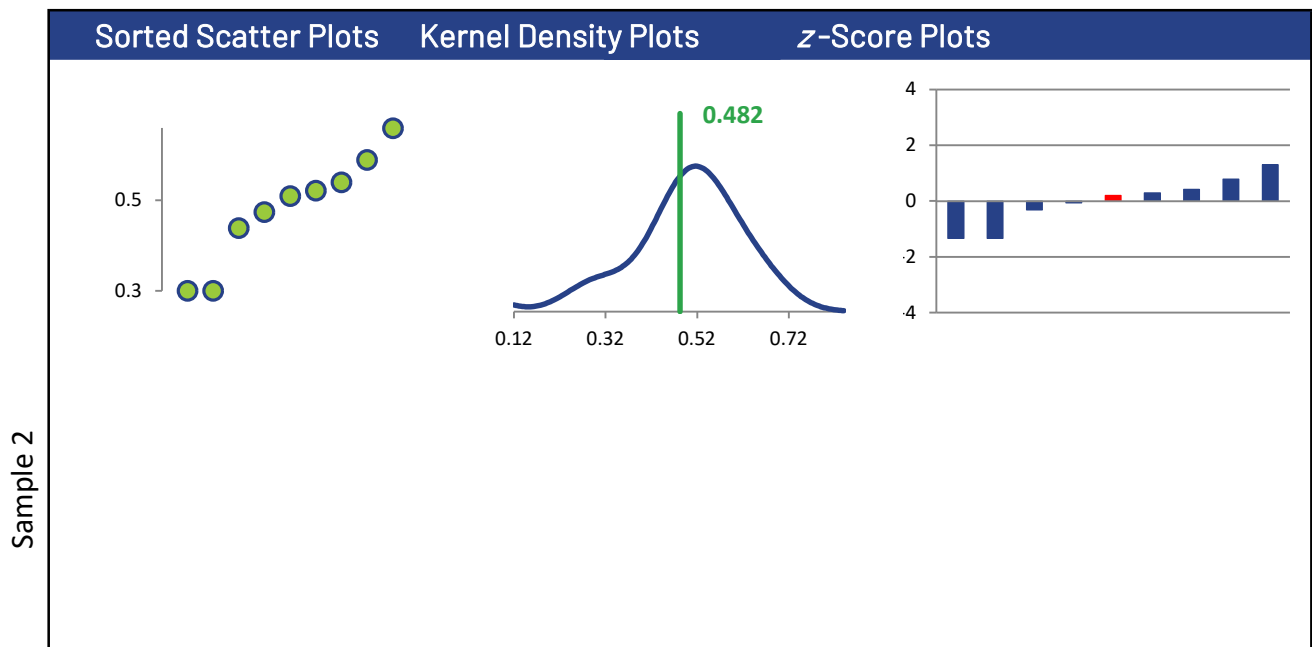
Not Spiked

Statistic	C71-1	C71-2	C71-3	C71-4
N	9	0	0	0
Median µg/g	0.510			
Robust Mean µg/g	0.482			
U µg/g	0.0571			
Robust Standard Deviation µg/g	0.137			
Regression Standard Deviation µg/g				
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/g	0.137			
Outliers	0	2	0	0
z >3.0	0	0	0	0
2< z <3	0	0	0	0

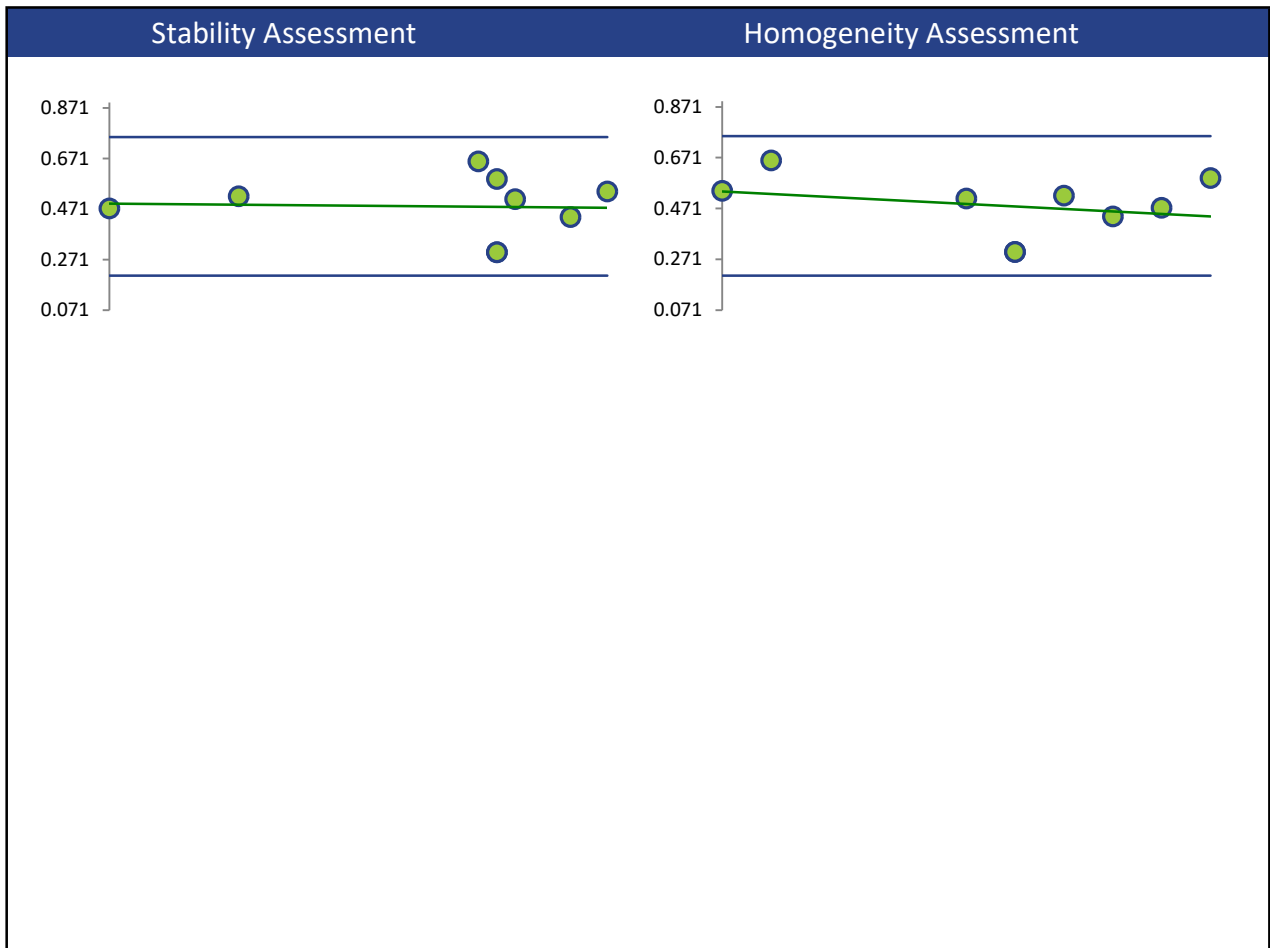
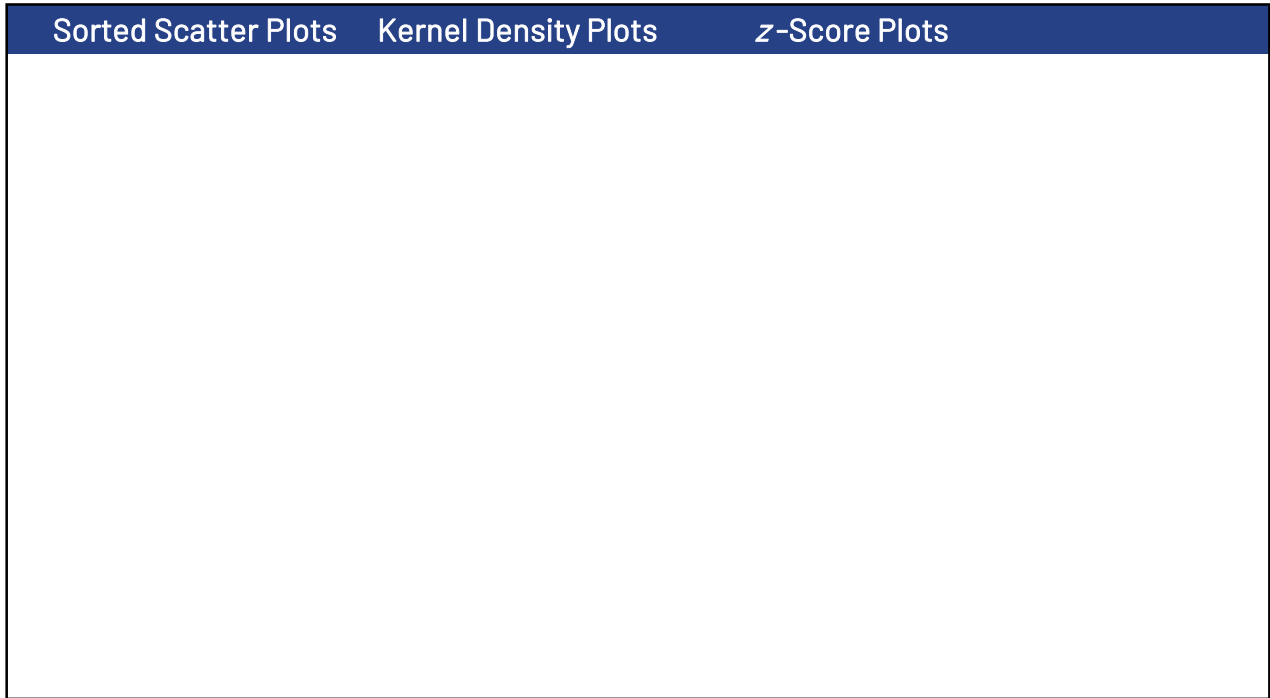
Methods Used

Method	C71-1	C71-2	C71-3	C71-4
LC-MS/MS (Blue)	8	0	0	0
LC/MS (Red)	1	0	0	0

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



SPIROTETRAMAT



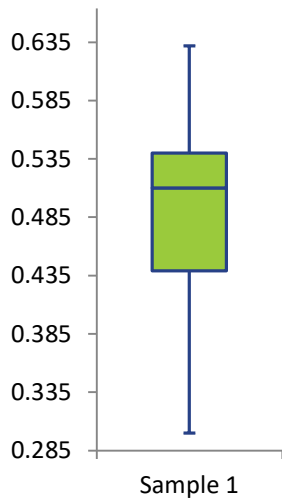
SPIROTETRAMAT

	Stability Assessment	Homogeneity Assessment
Sample 4		

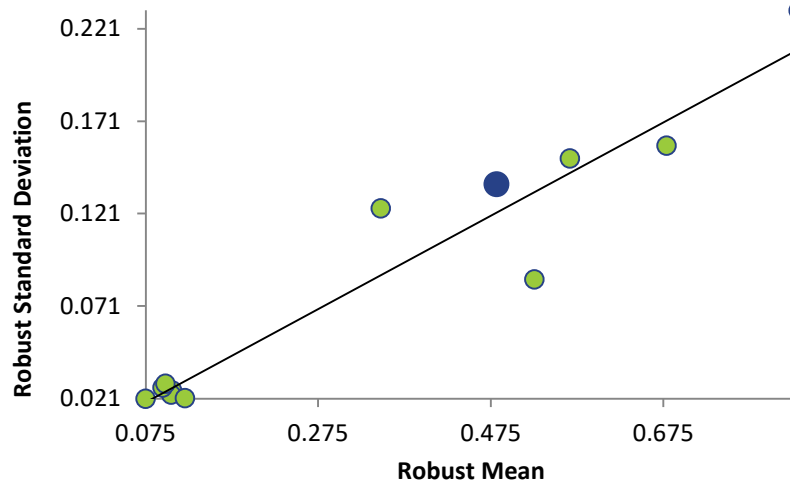
Stability assessments are regression analysis of reported result against date of analysis.

Homogeneity assessments are regression analysis of reported result against bottling order.

Box and Whisker Plots



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



THIAMETHOXAM

Summary Statistics

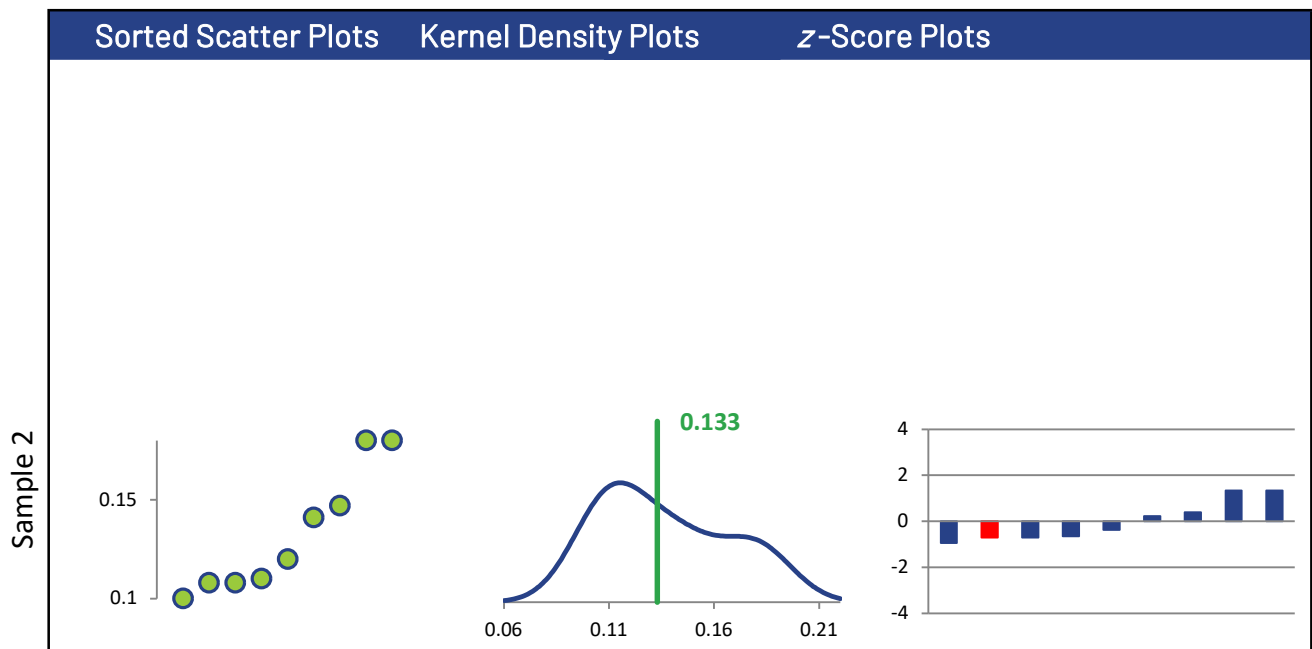
Not Spiked

Statistic	C71-1	C71-2	C71-3	C71-4
N	0	9	0	0
Median µg/g		0.120		
Robust Mean µg/g		0.133		
U µg/g		0.0147		
Robust Standard Deviation µg/g		0.0352		
Regression Standard Deviation µg/g				
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/g		0.0352		
Outliers	2	0	0	0
z >3.0	0	0	0	0
2< z <3	0	0	0	0

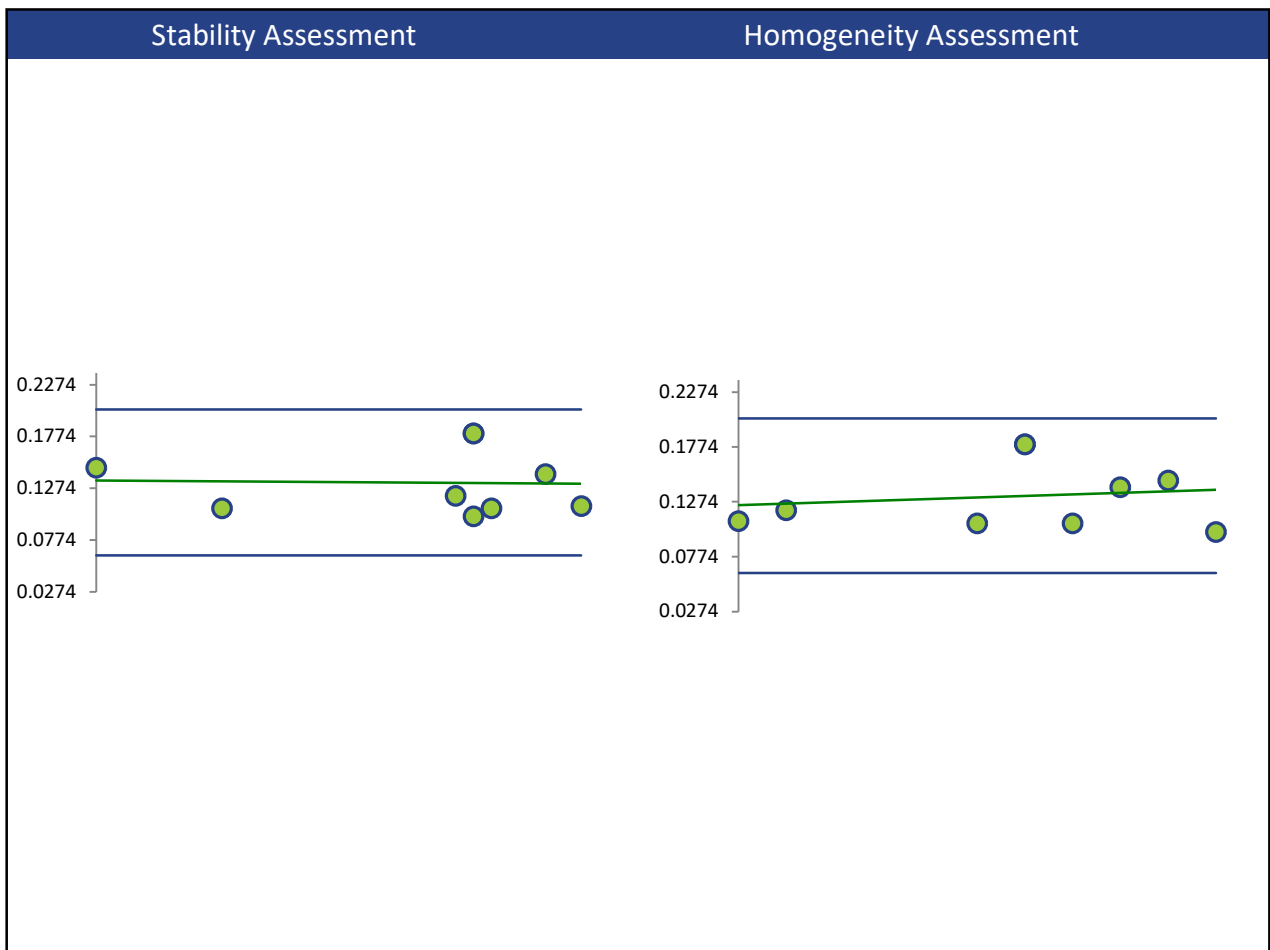
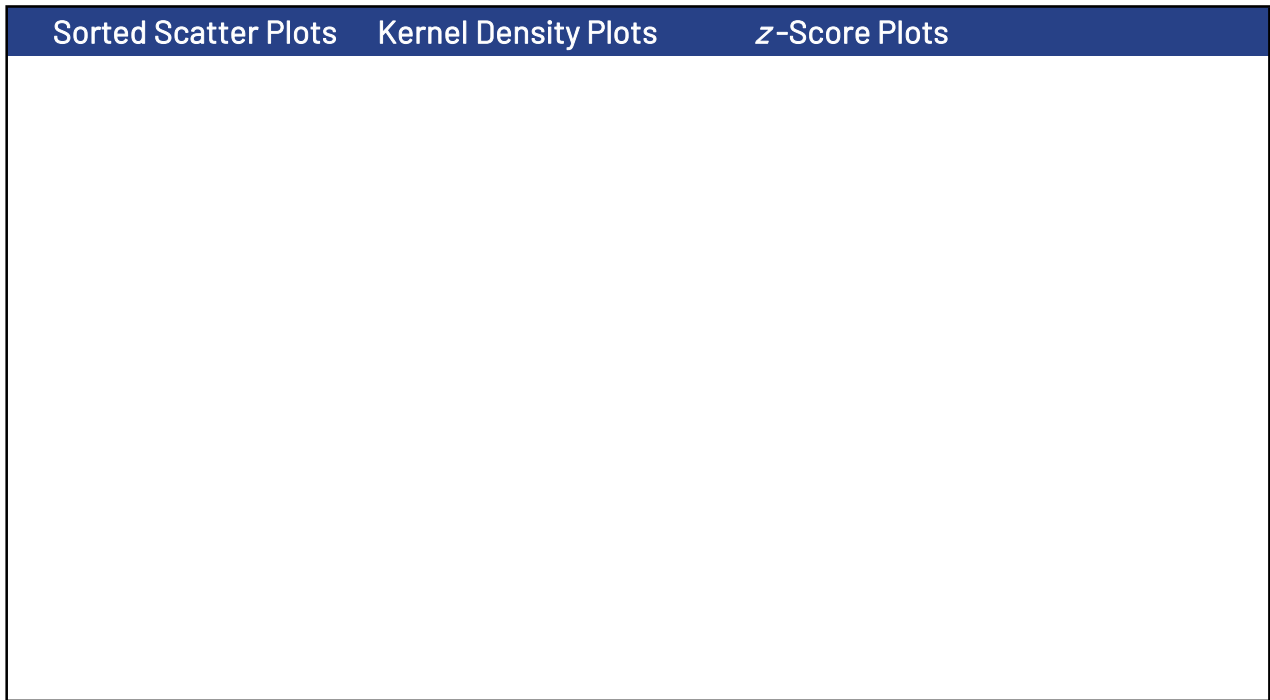
Methods Used

Method	C71-1	C71-2	C71-3	C71-4
LC-MS/MS (Blue)	0	8	0	0
LC/MS (Red)	0	1	0	0

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



THIAMETHOXAM



THIAMETHOXAM

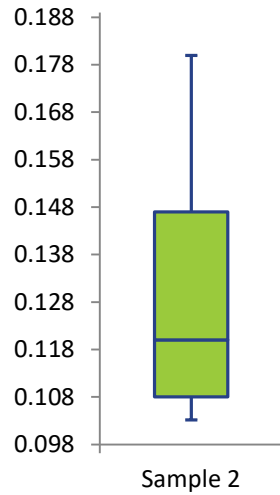
Stability Assessment	Homogeneity Assessment
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Sample 4

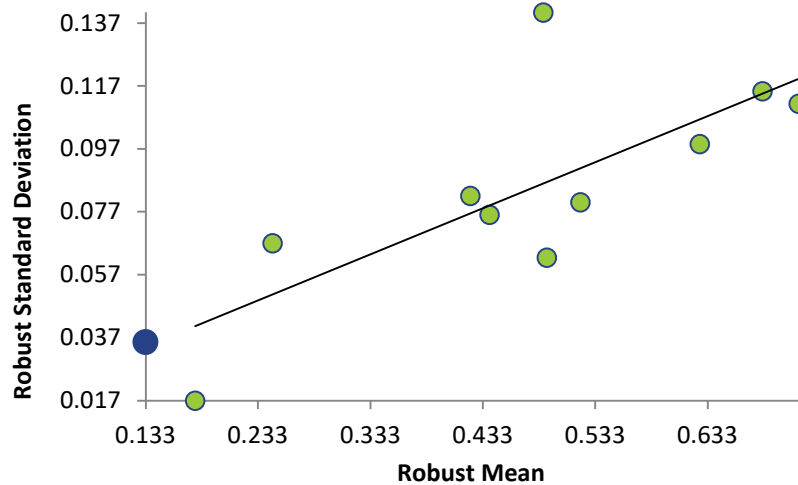
Stability assessments are regression analysis of reported result against date of analysis.

Homogeneity assessments are regression analysis of reported result against bottling order.

Box and Whisker Plots



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



TRIFLOXYSTROBIN

Summary Statistics

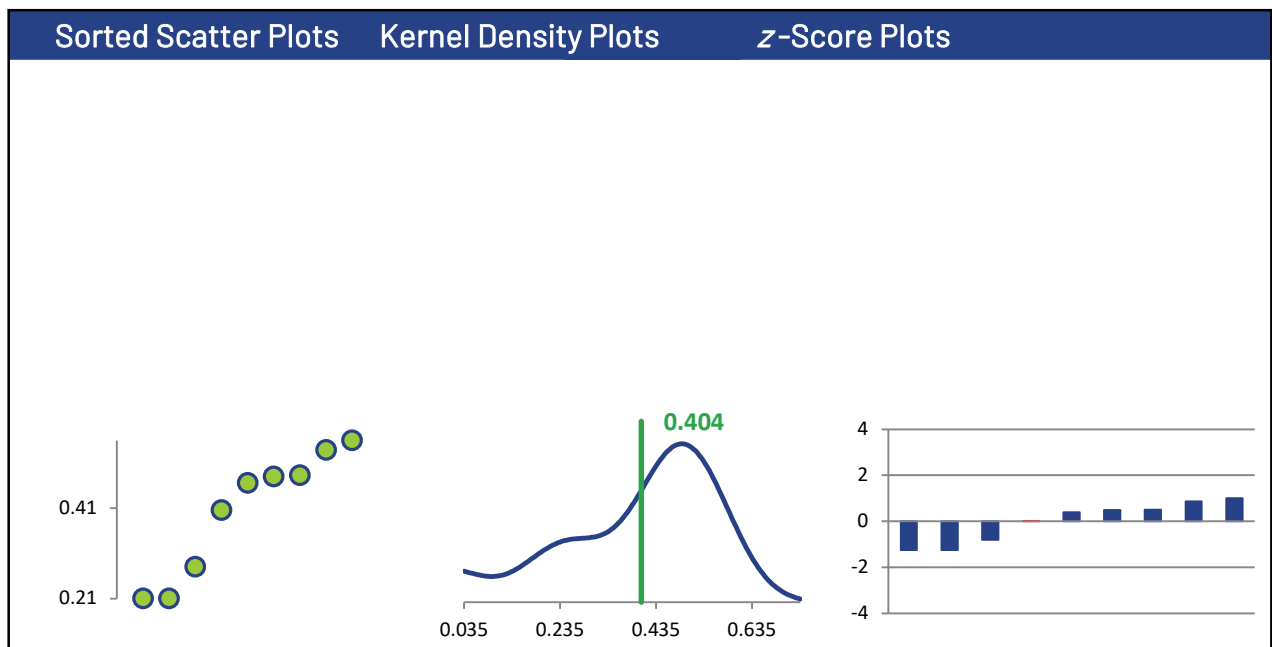
Not Spiked

Statistic	C71-1	C71-2	C71-3	C71-4
N	0	9	0	0
Median µg/g		0.466		
Robust Mean µg/g		0.404		
U µg/g		0.0646		
Robust Standard Deviation µg/g		0.155		
Regression Standard Deviation µg/g				
Stability Flag				
Homogeneity Flag				
Standard Deviation Used (SDPA) µg/g		0.155		
Outliers	2	0	0	0
z >3.0	0	0	0	0
2< z <3	0	0	0	0

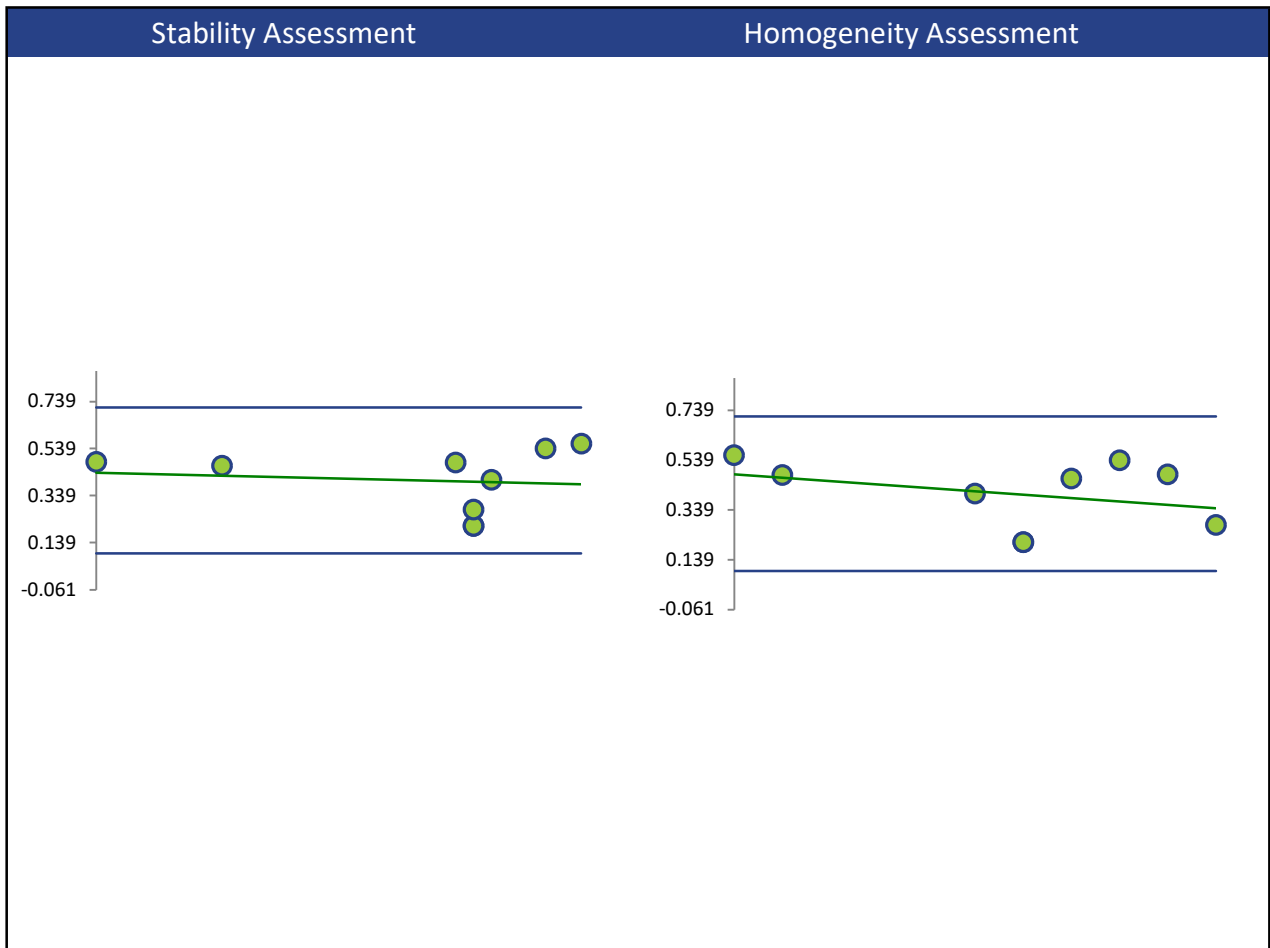
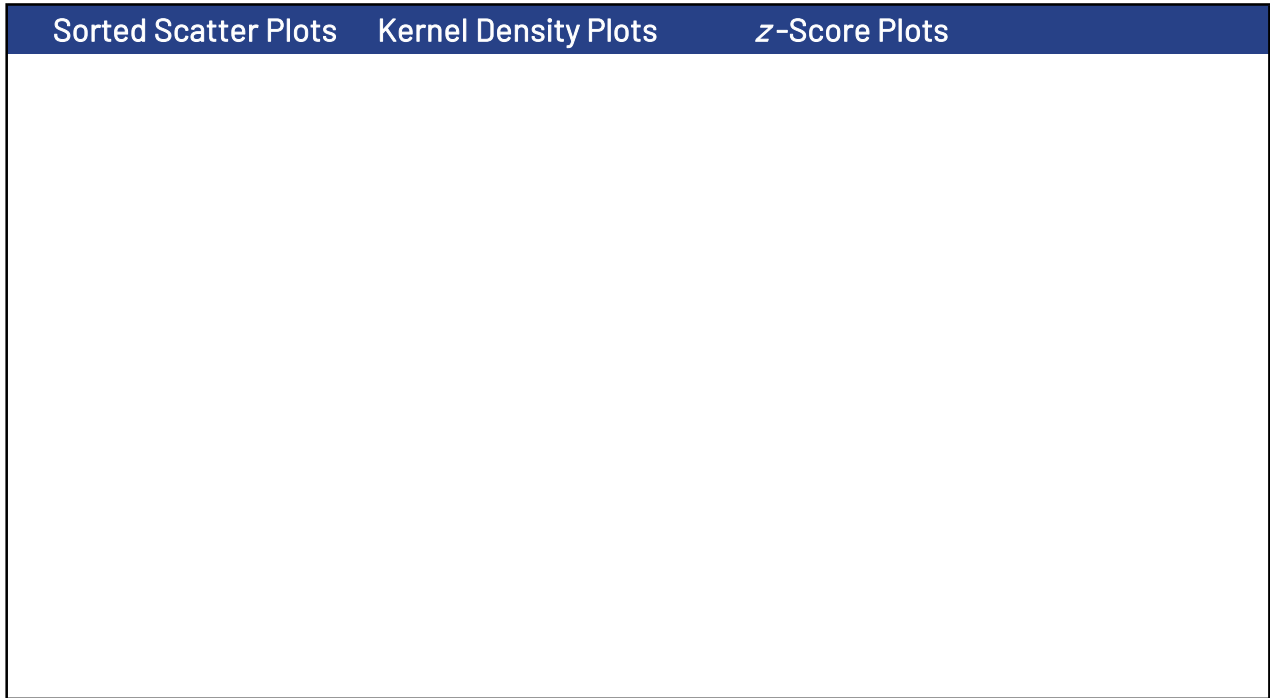
Methods Used

Method	C71-1	C71-2	C71-3	C71-4
LC-MS/MS (Blue)	0	8	0	0
LC/MS (Red)	0	1	0	0

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



TRIFLOXYSTROBIN



TRIFLOXYSTROBIN

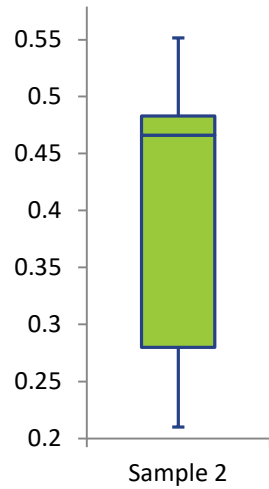
Stability Assessment Homogeneity Assessment

Sample 4

Stability assessments are regression analysis of reported result against date of analysis.

Homogeneity assessments are regression analysis of reported result against bottling order.

Box and Whisker Plots



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

