

**SOIL BACKGROUND REPORT
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA
APPENDIX C – PLOTS
README FILE**

Contents

- I. Rank Order Plots**
- II. Probability Plots**

Descriptions

I Rank Order Plots

Rank order plots are provided for each metal and fluoride. Where constituents were not detected, non detects (NDs) are designated with different symbols. All results are shown as reported by the analytical laboratory (i.e. NDs are shown at sample detection limit).

II Probability Plots

Data are presented in probability plots for the following datasets:

A. Metals and fluoride

Metals and fluoride data represented in probability plots are derived from the Background Soil Metals Data Set (Table 4-1). Relevant statistics are also included with metals and fluoride plots. These statistics are generated with Minitab (Version 14) statistical software. Statistics discussed in Section 4 were generated using ProUCL (USEPA 2004).

B. Dioxins

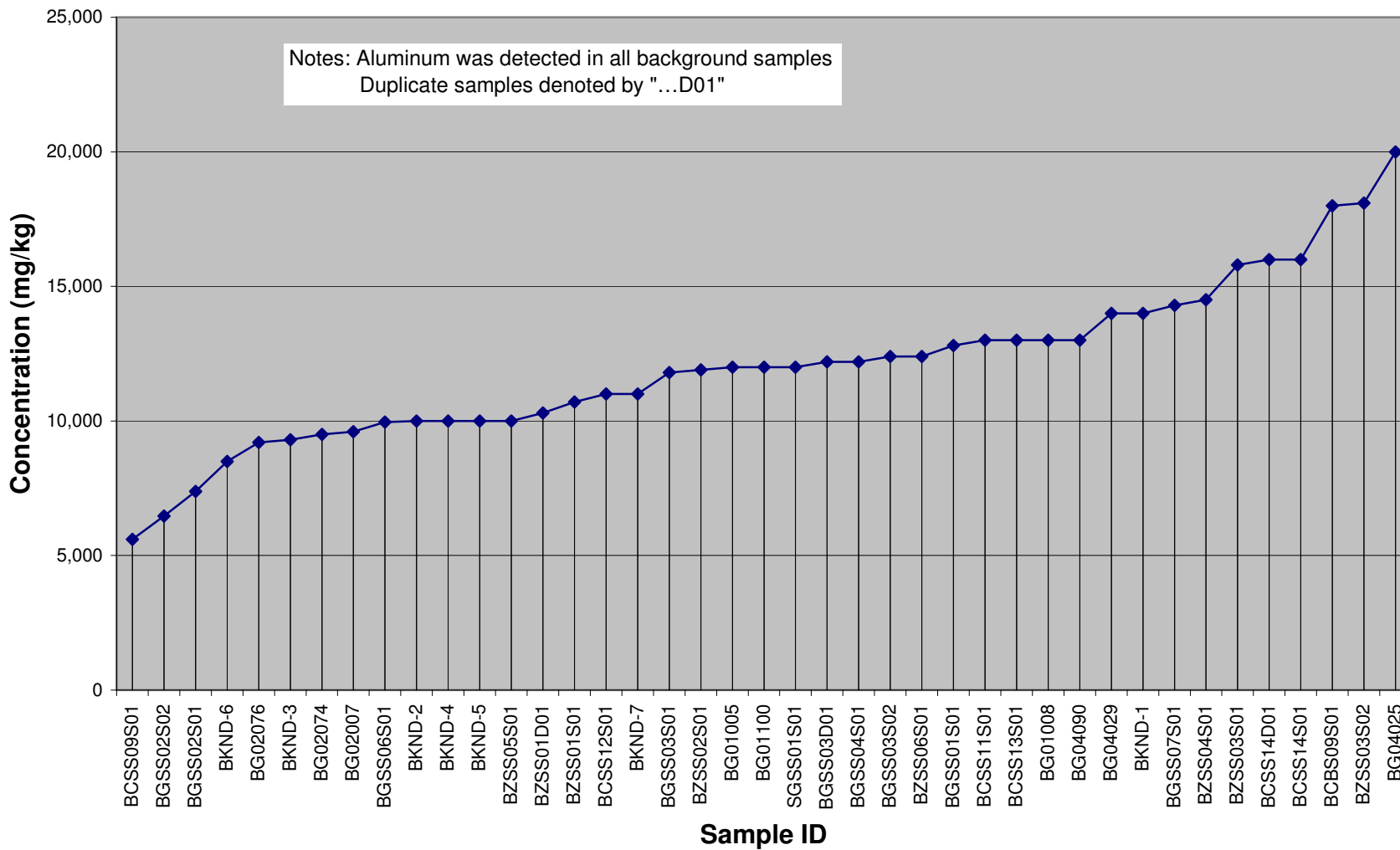
Dioxins data represented in probability plots are derived from the Background Dioxins Data Set (Table 4-2). Relevant statistics are also included with dioxin plots. These statistics are generated with Minitab (Version 14) statistical software. Statistics discussed in Section 4 were generated using ProUCL (USEPA 2004).

Metals and dioxins data is plotted with the following conditions applied:

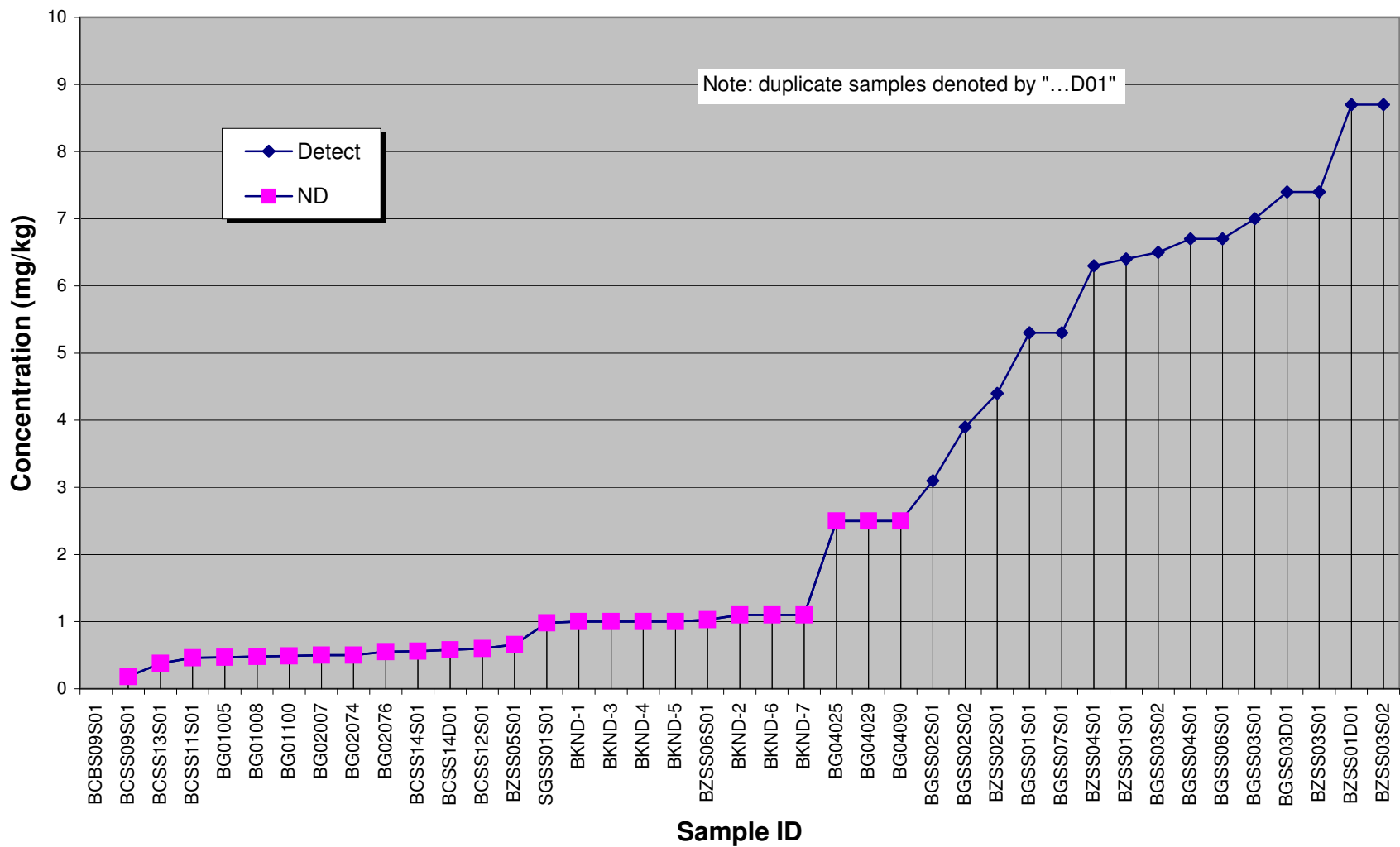
- Duplicate analytical data are averaged when the two candidate values are not markedly different. In cases where duplicate data included one detect and one non-detect, the average is conservatively calculated using the value of detect and half the Detection Limit (DL) of the non-detect. In each case, primary and duplicate data are plotted as a single data point.

- Due to data validation, some DLs vary from the original laboratory report and the revised estimated non detect values (UJ-flag) are used for data plotting.
- For each metal (and fluoride), each dioxin congener, and total dioxins congener group plots are generated for three cases: (I) NDs deleted, (II) NDs set equal to the minimum detected concentration, and (III) NDs set equal to one half the DL.

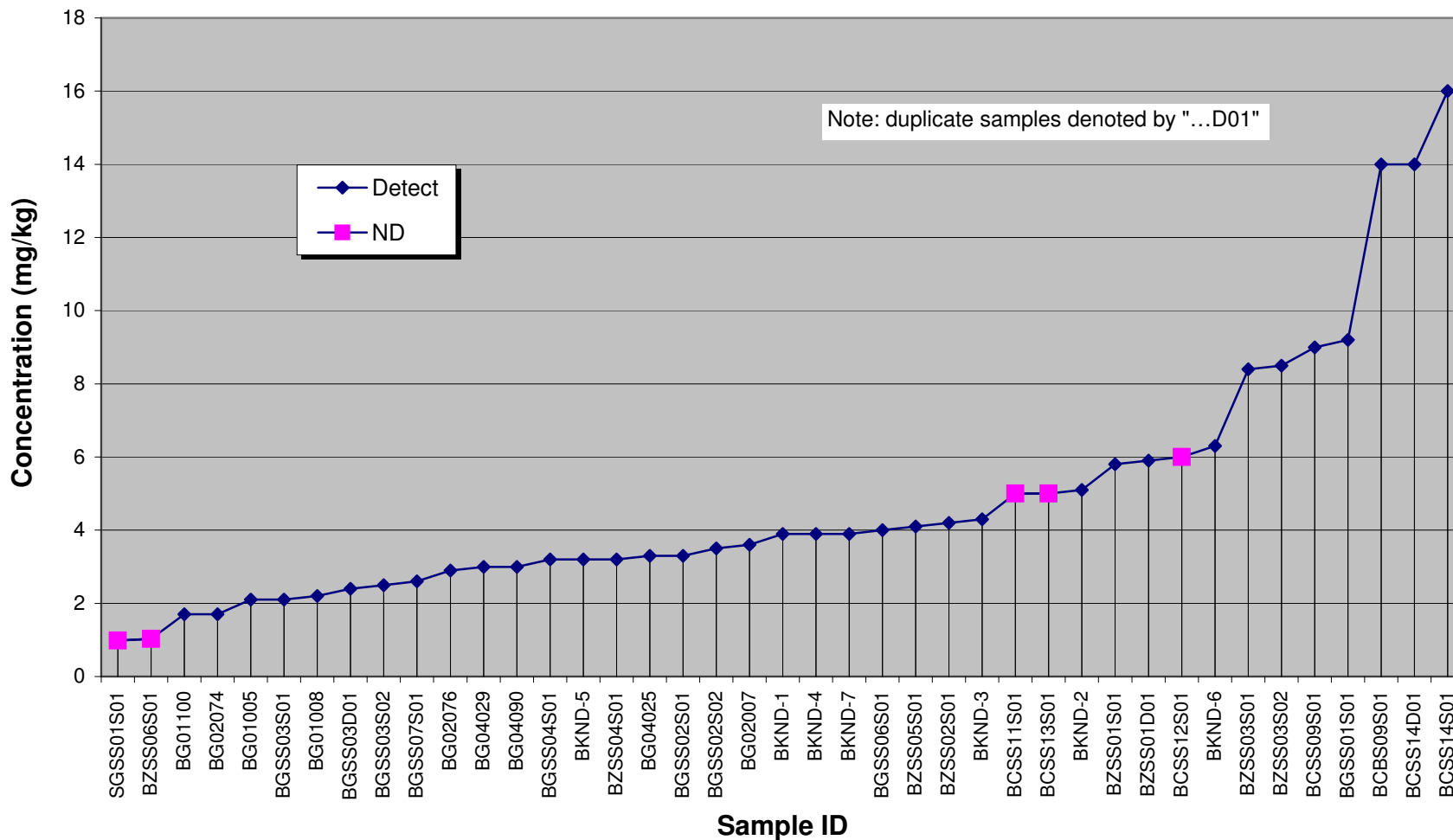
Rank Order Plot for Aluminum in Background Soil



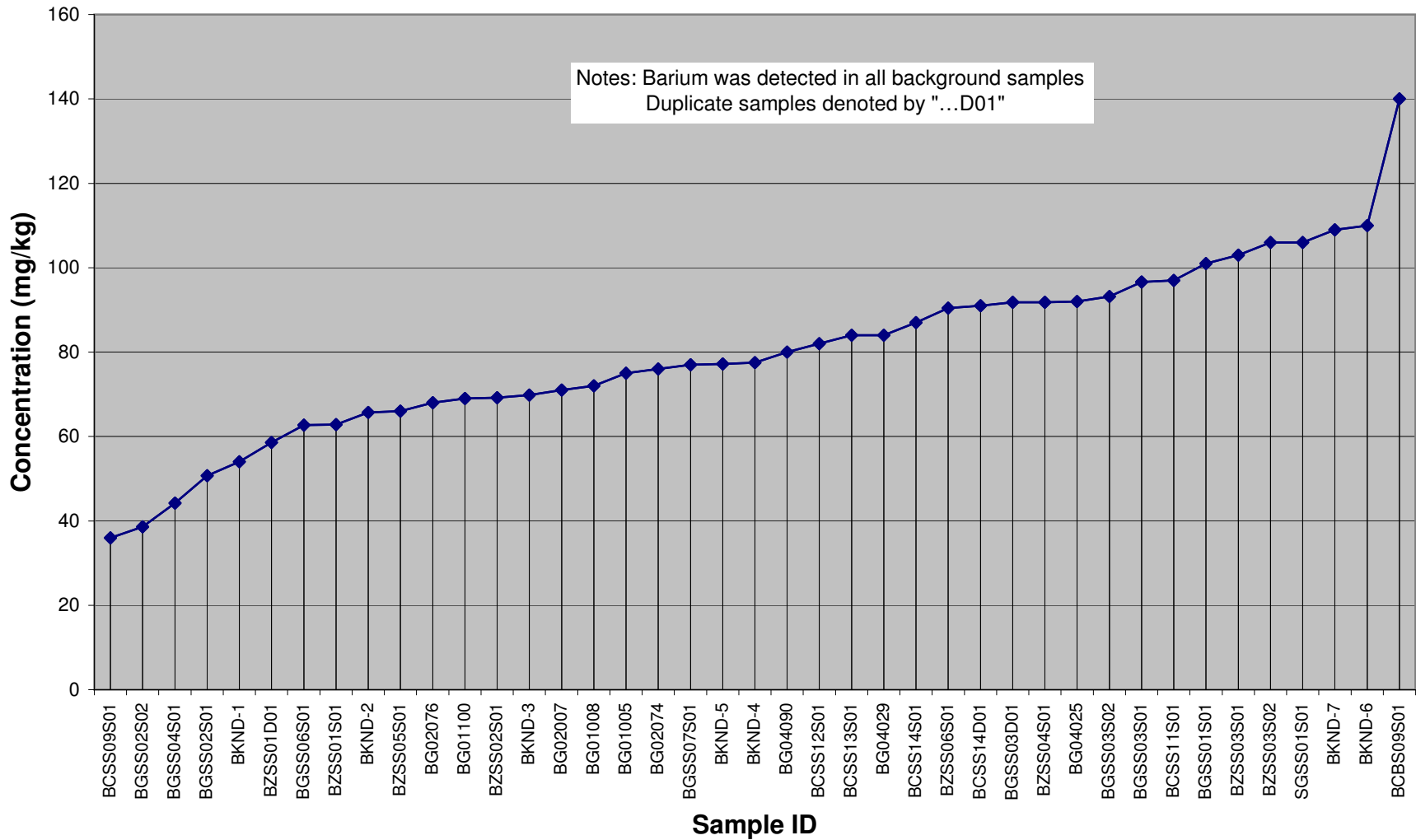
Rank Order Plot for Antimony in Background Soil



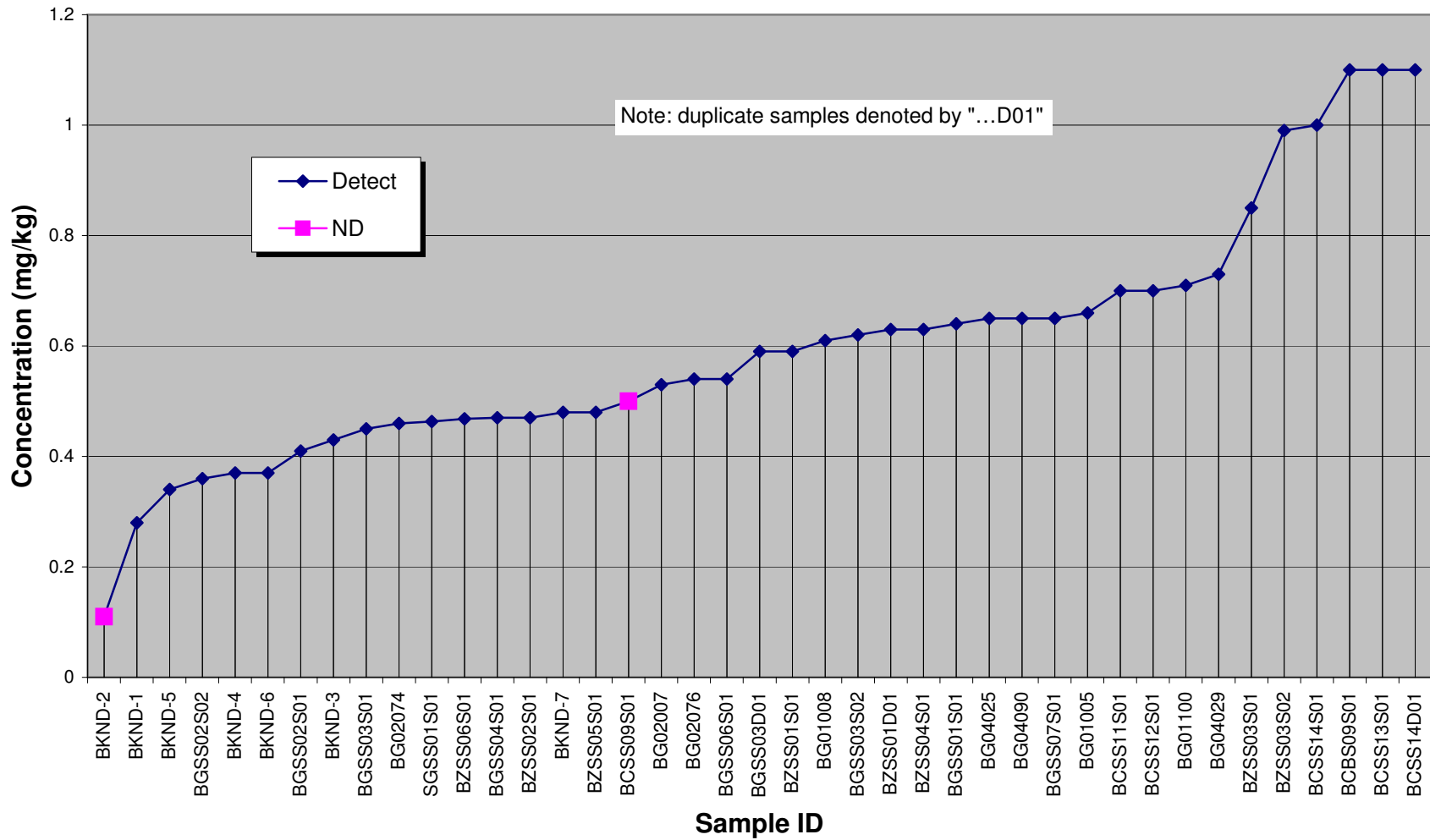
Rank Order Plot for Arsenic in Soil Background



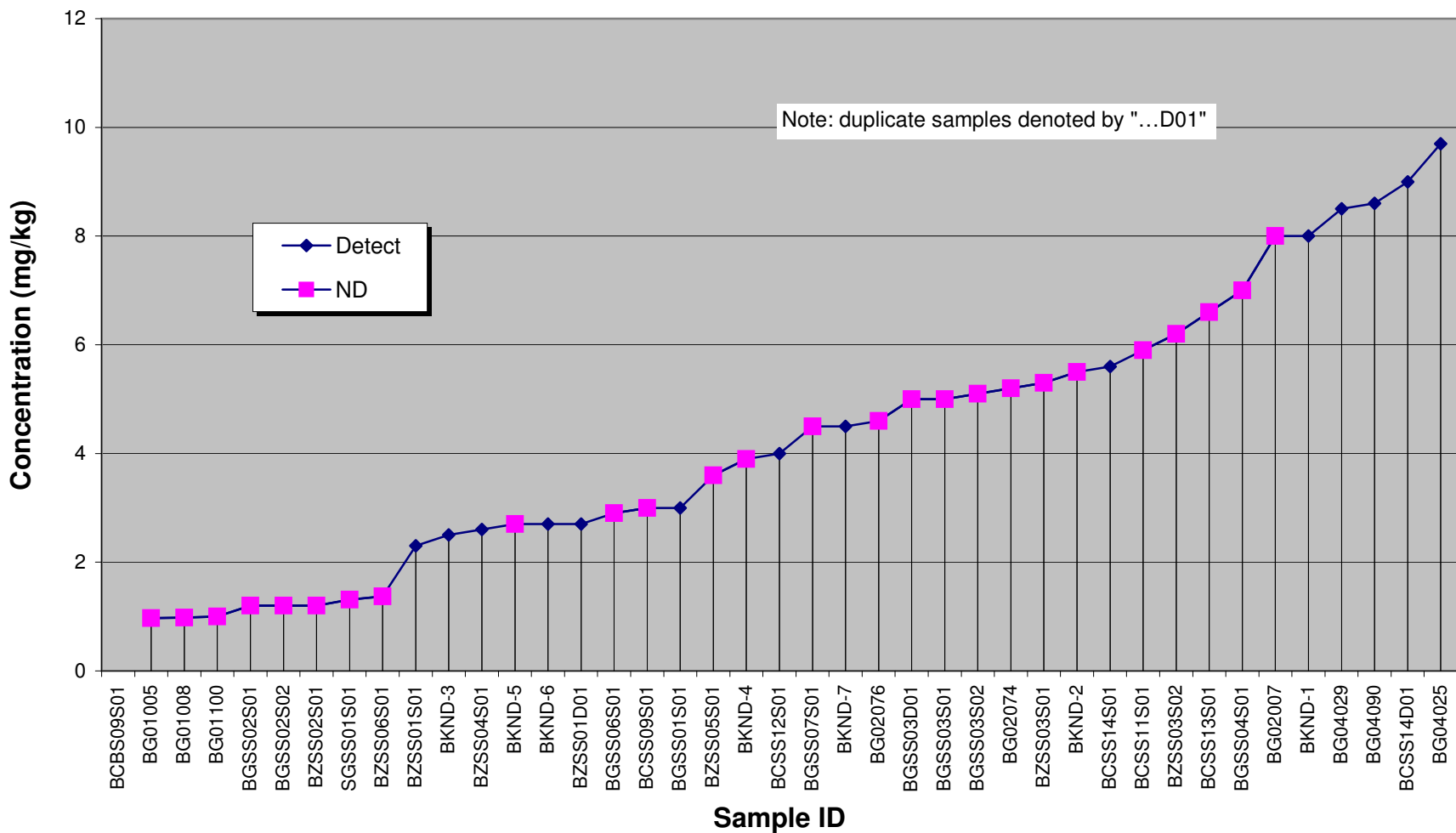
Rank Order Plot for Barium in Background Soil



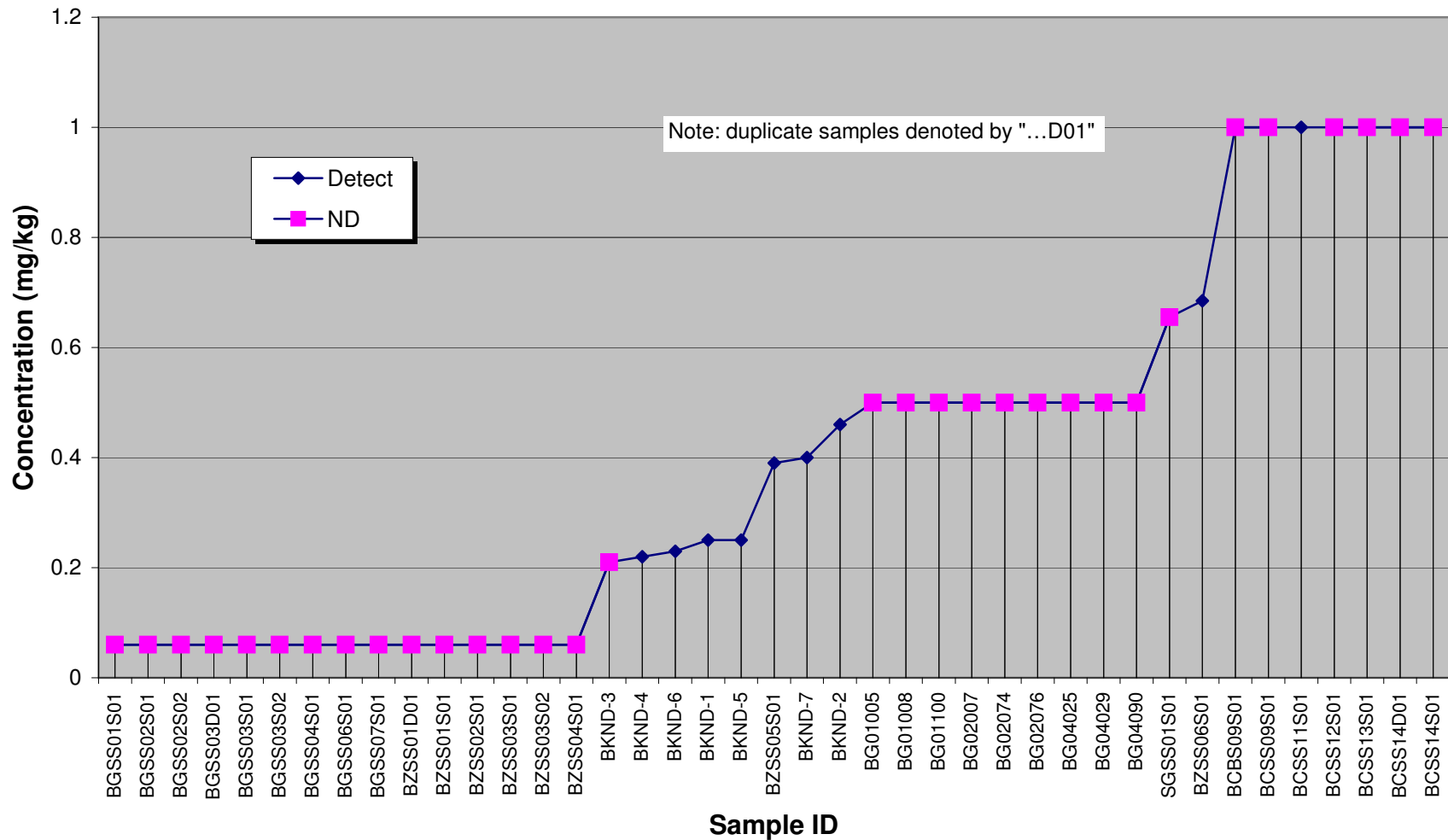
Rank Order Plot for Beryllium in Background Soil



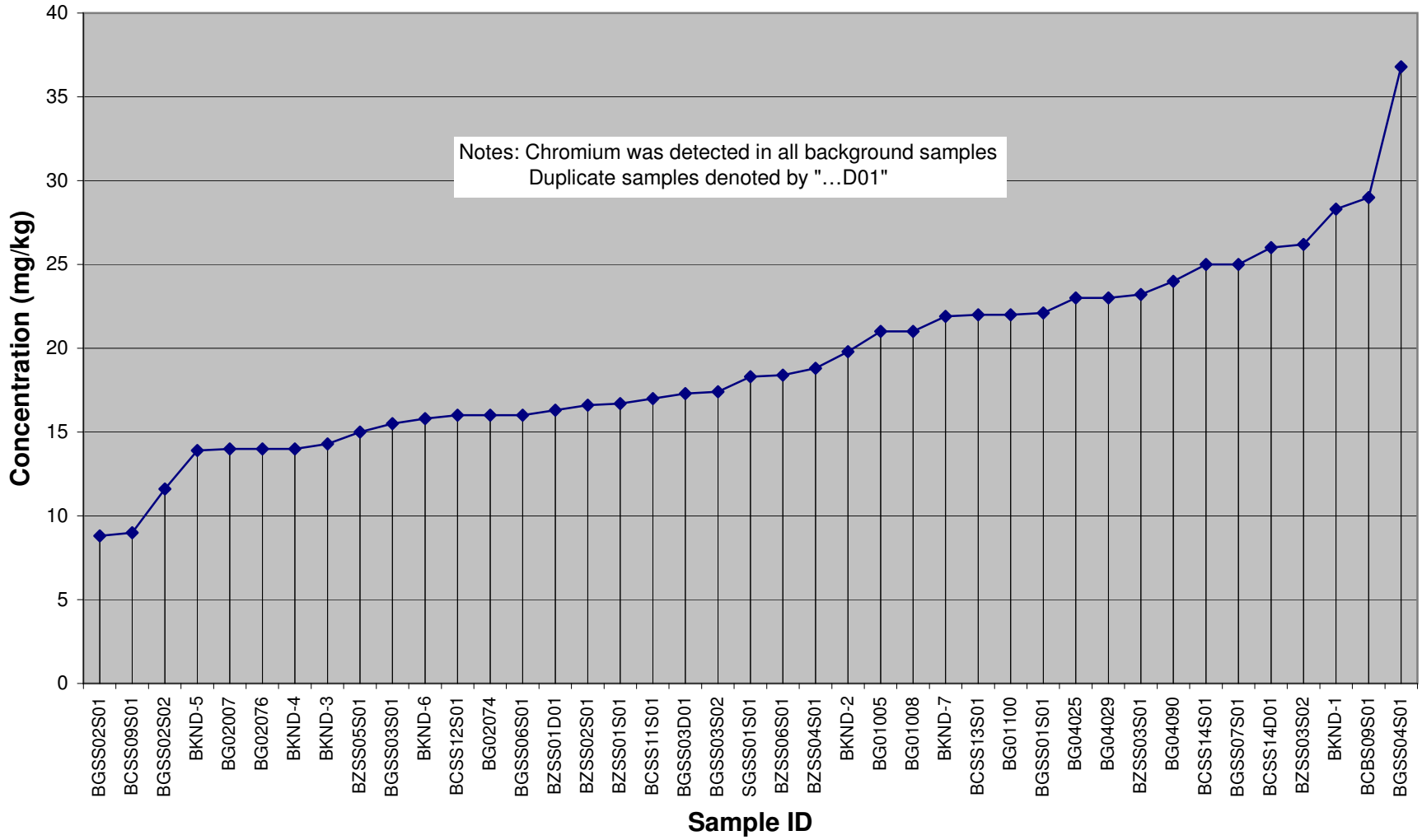
Rank Order Plot for Boron in Background Soil



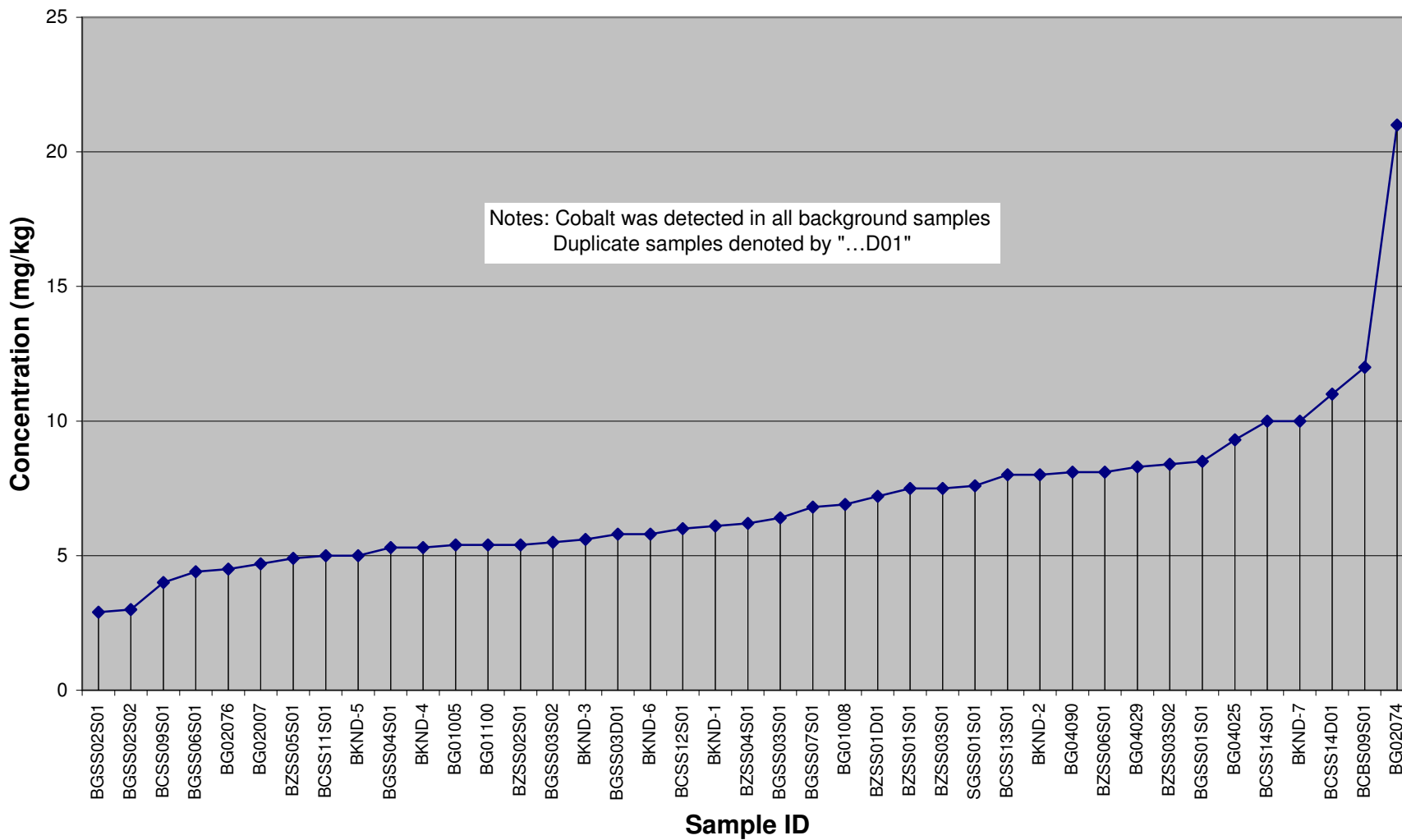
Rank Order Plot for Cadmium in Background Soil



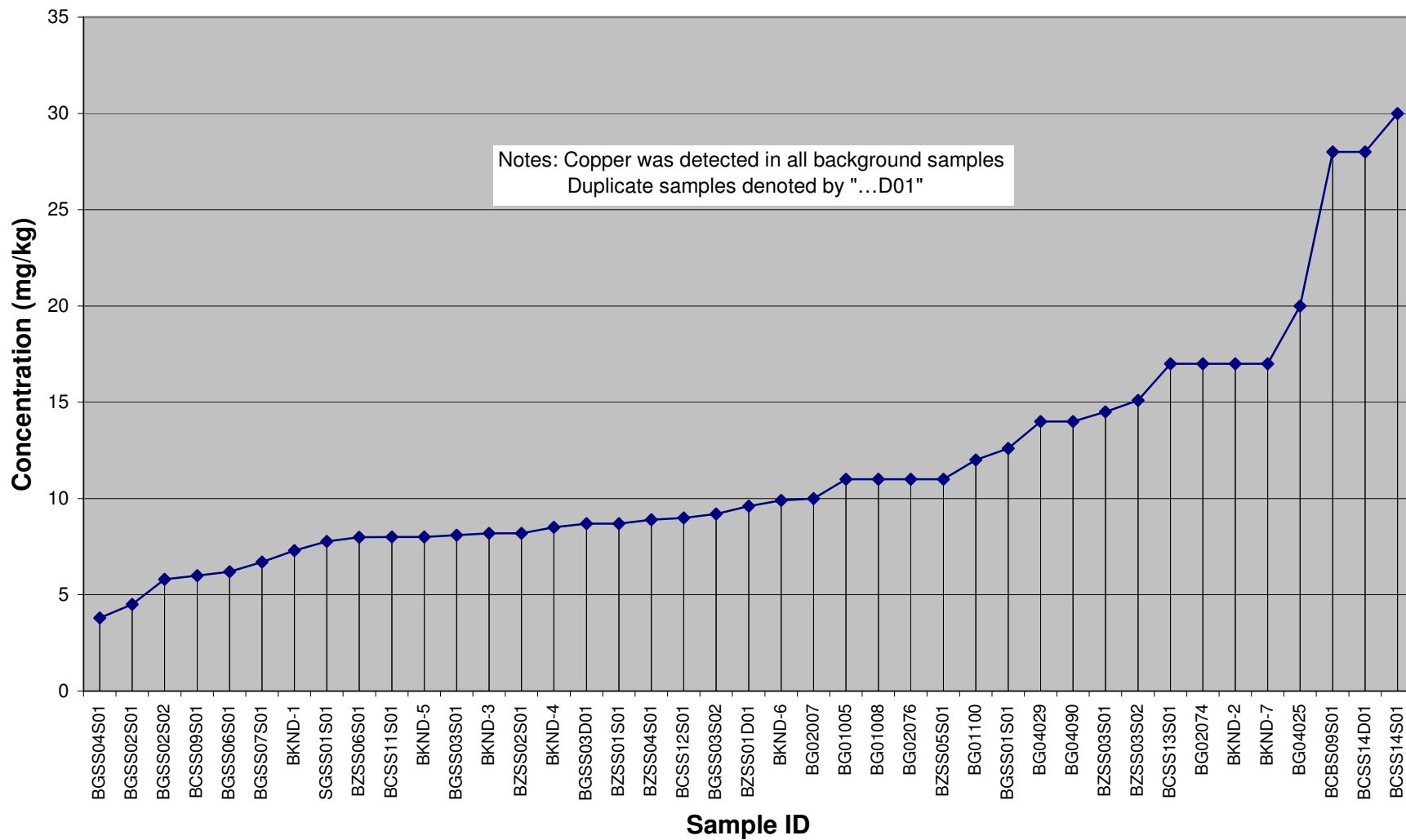
Rank Order Plot for Chromium in Background Soil



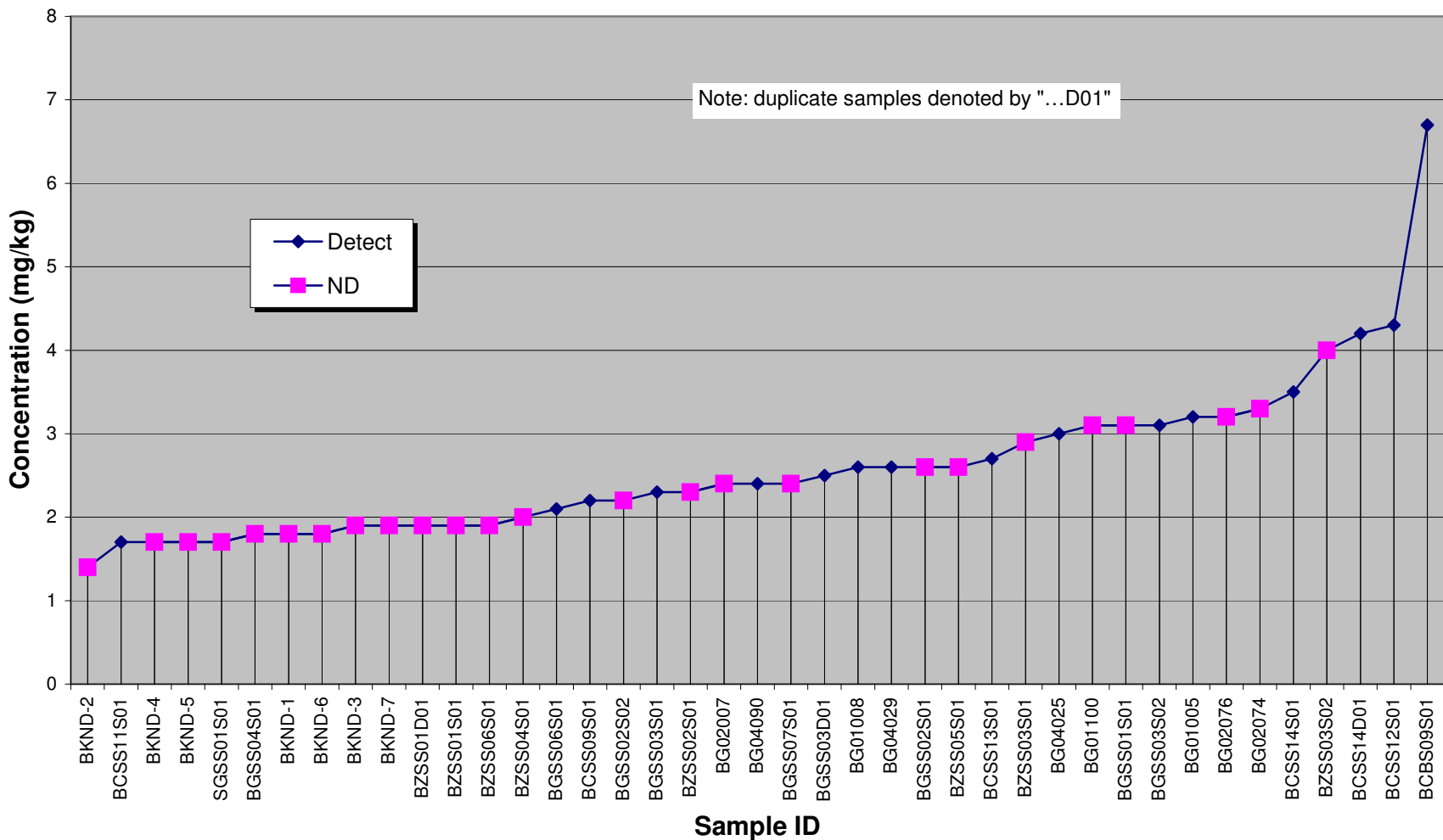
Rank Order Plot for Cobalt in Background Soil



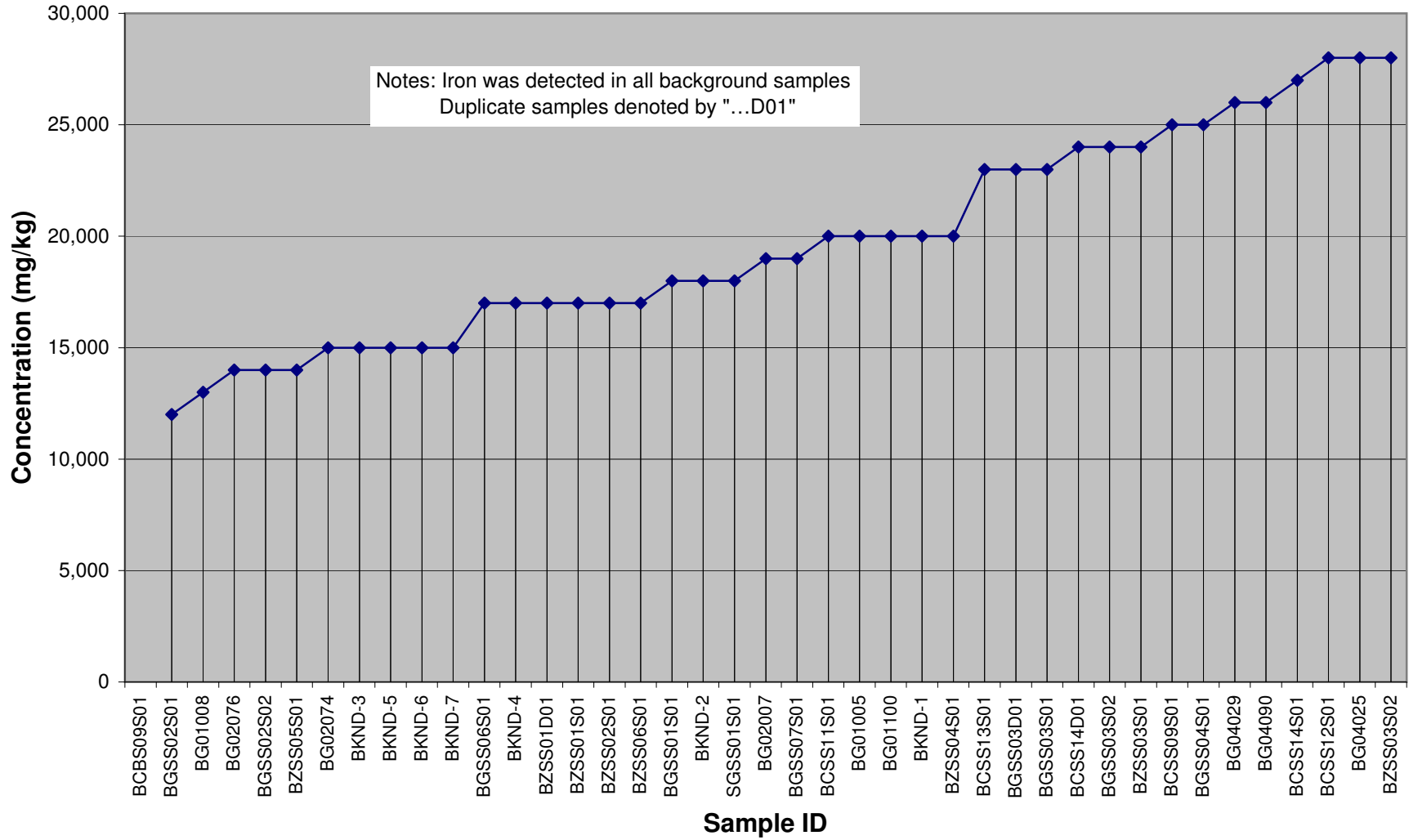
Rank Order Plot for Copper in Background Soil



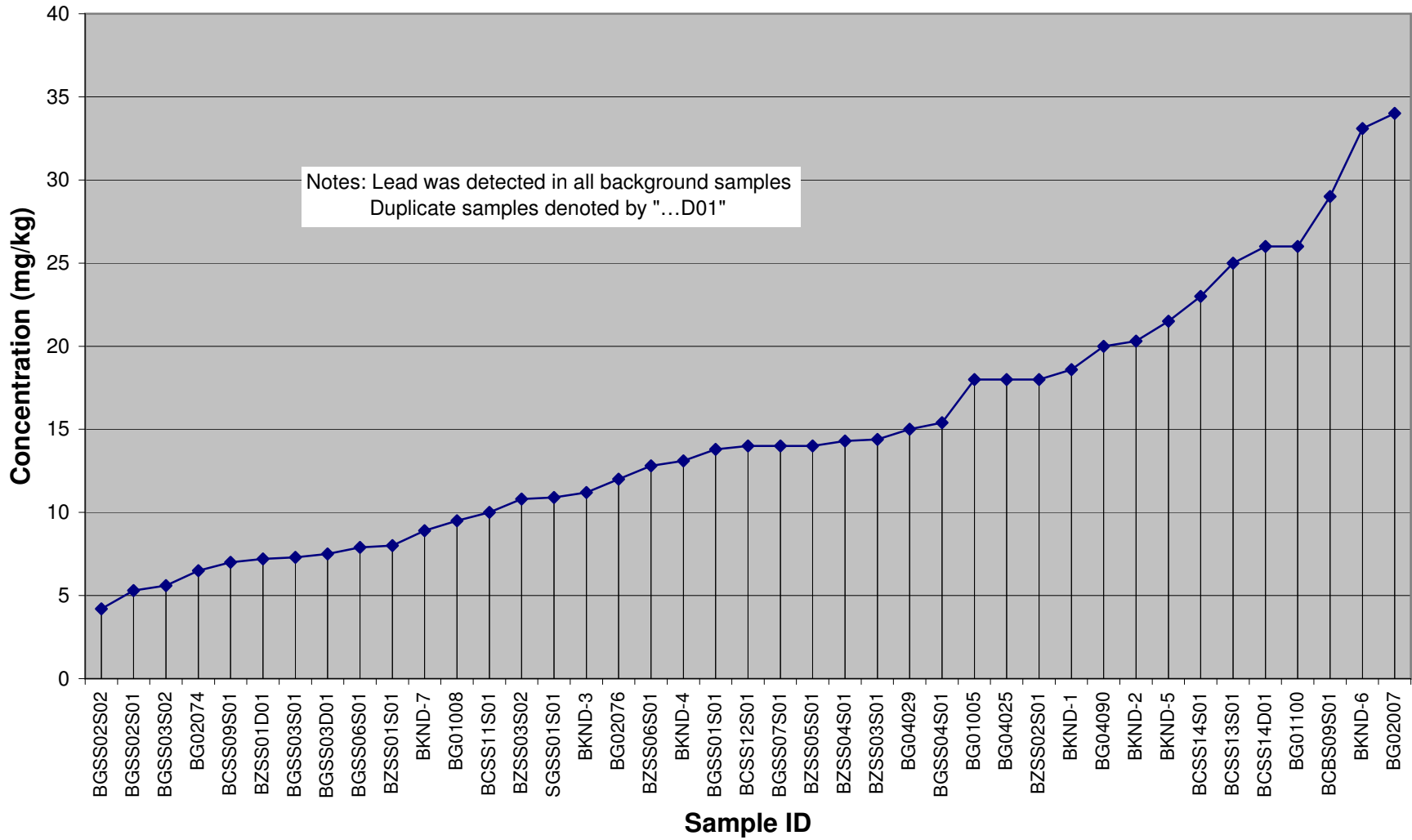
Rank Order Plot for Fluoride in Background Soil



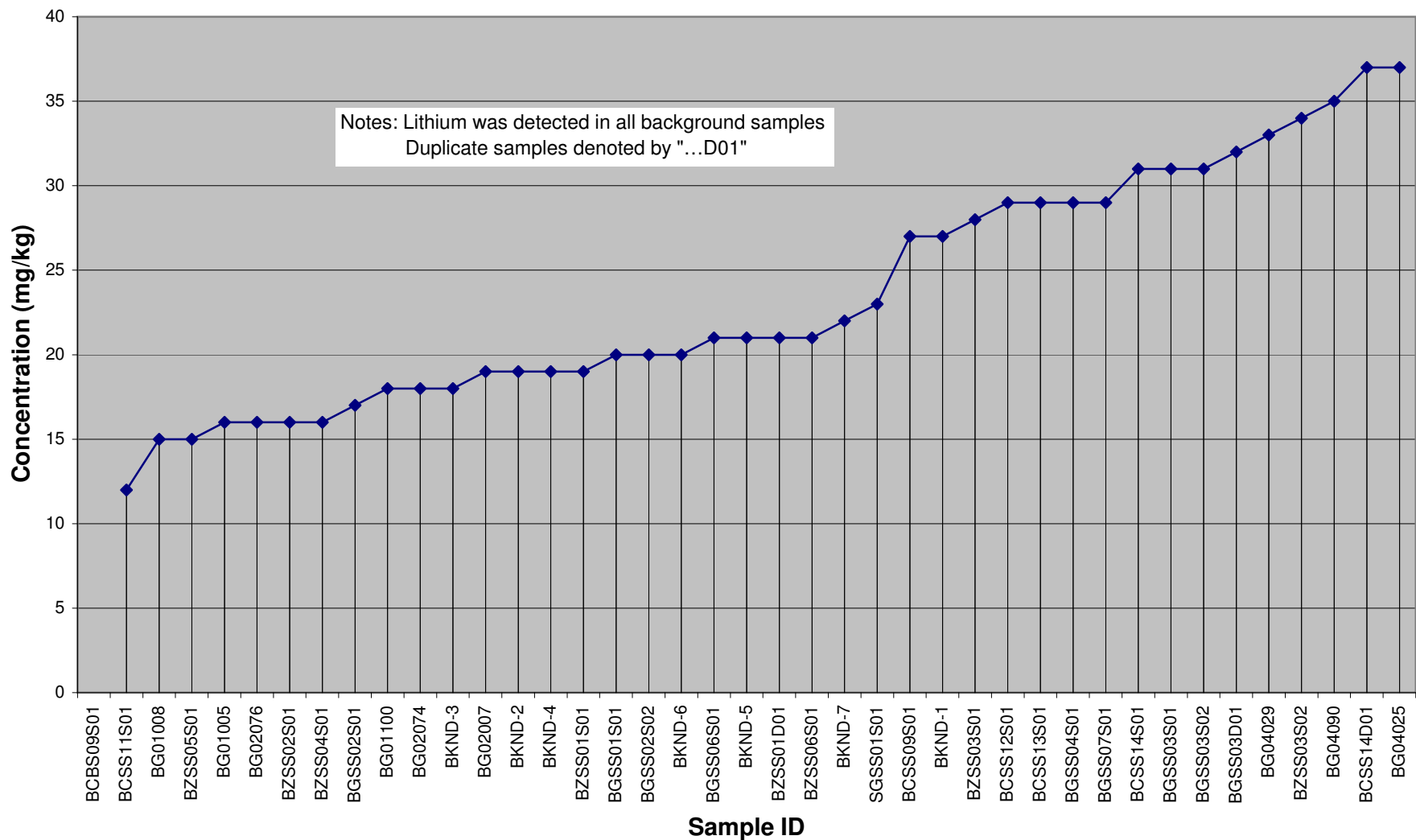
Rank Order Plot for Iron in Background Soil



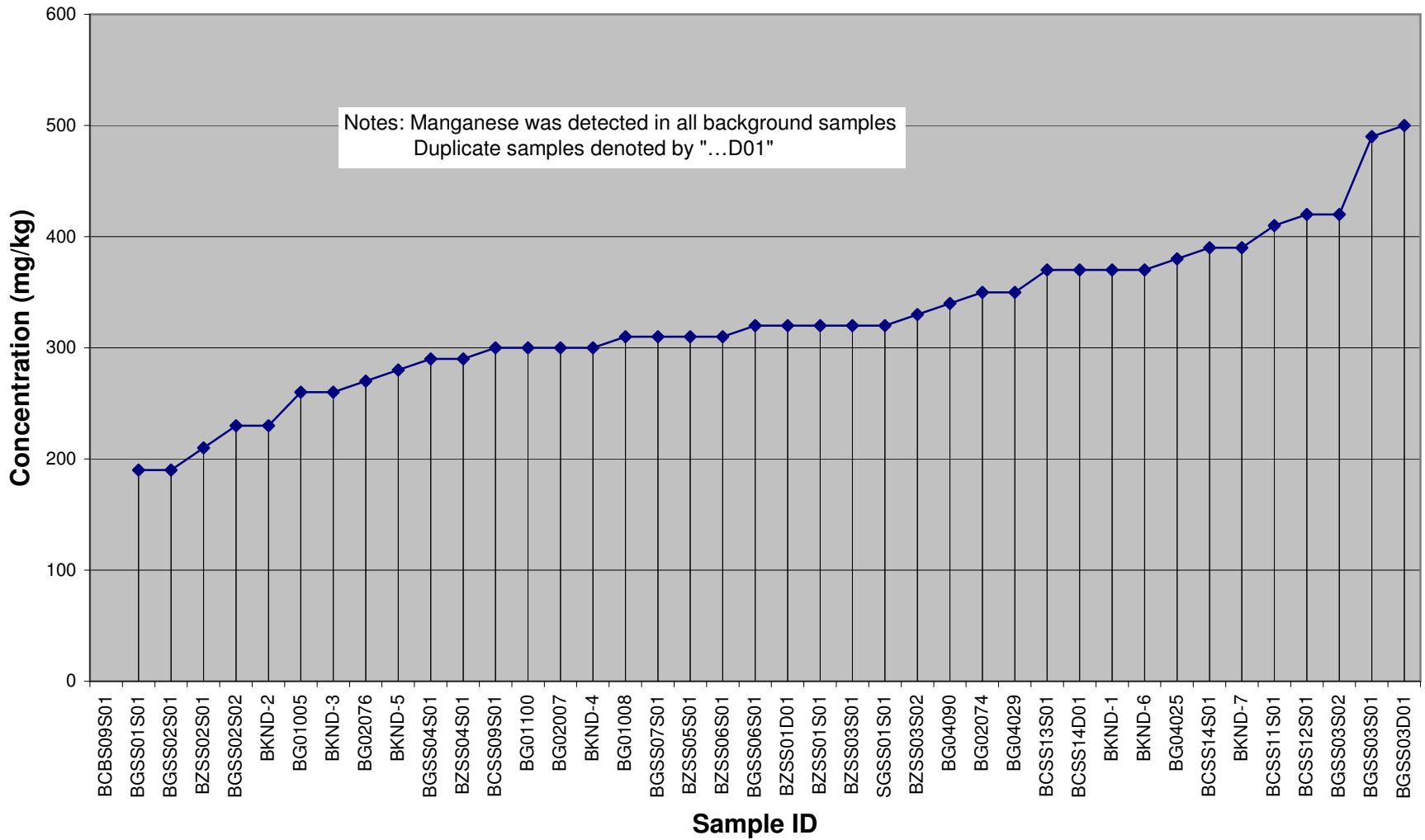
Rank Order Plot for Lead in Background Soil



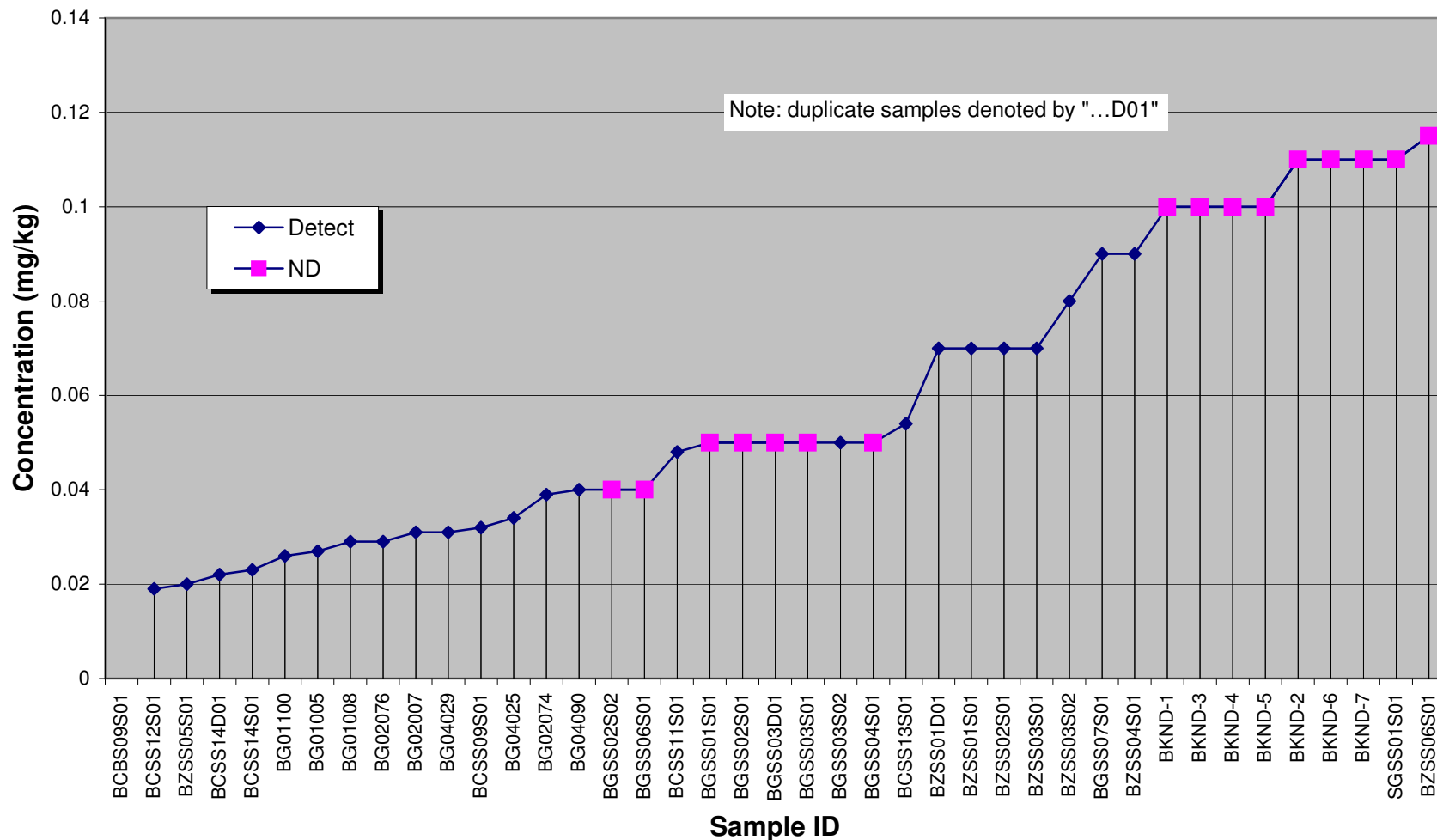
Rank Order Plot for Lithium in Background Soil



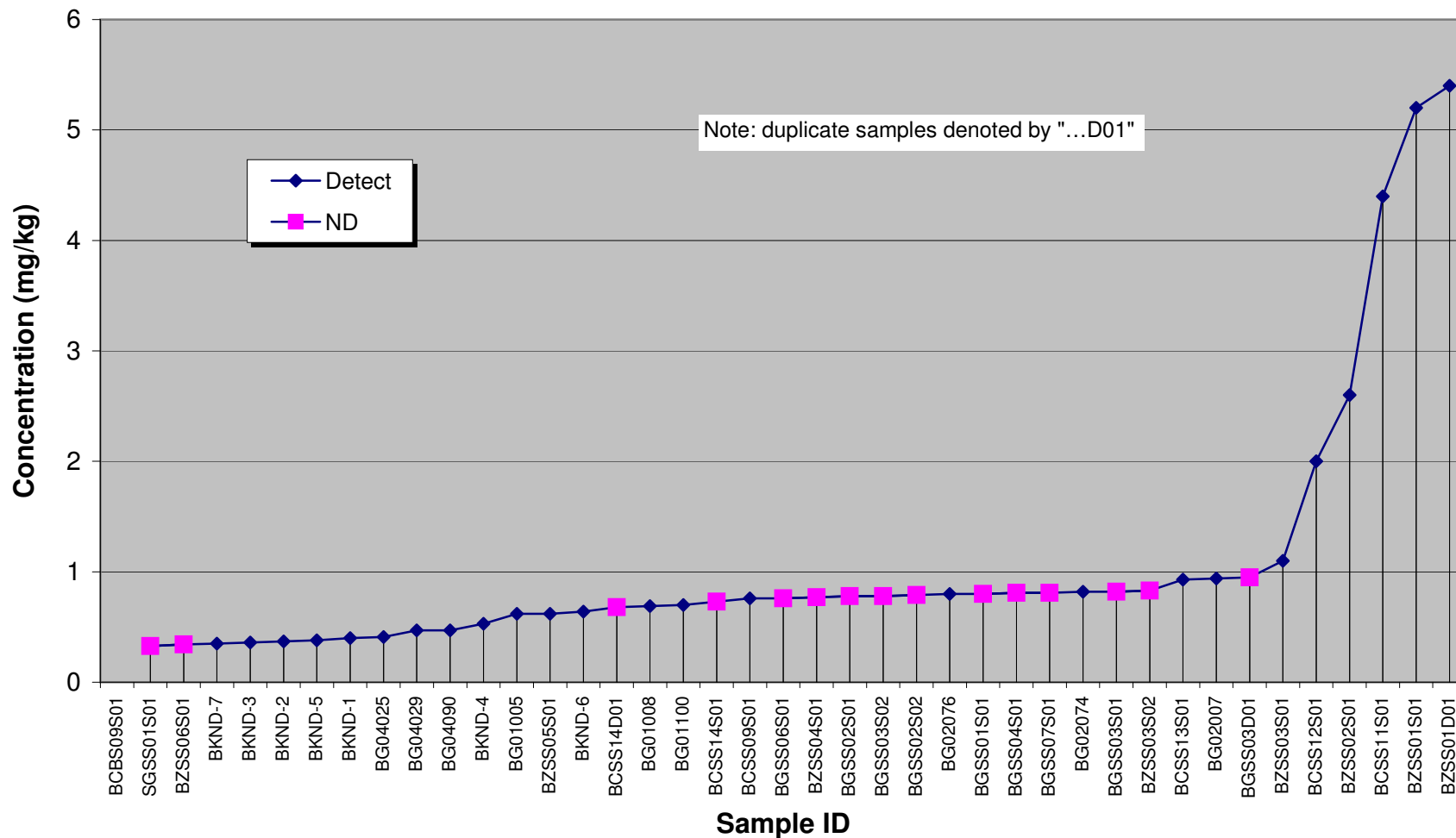
Rank Order Plot for Manganese in Background Soil



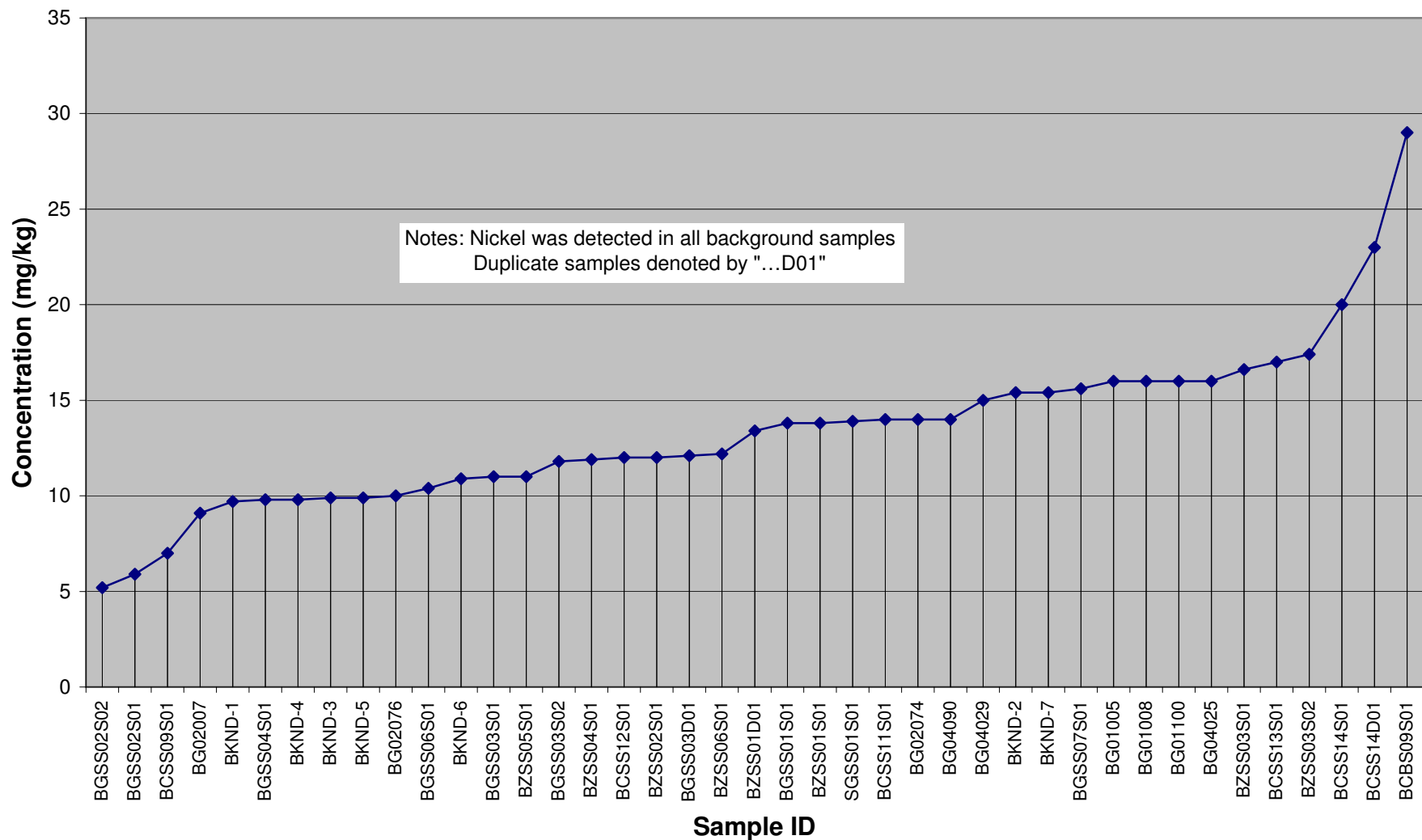
Rank Order Plot for Mercury in Background Soil



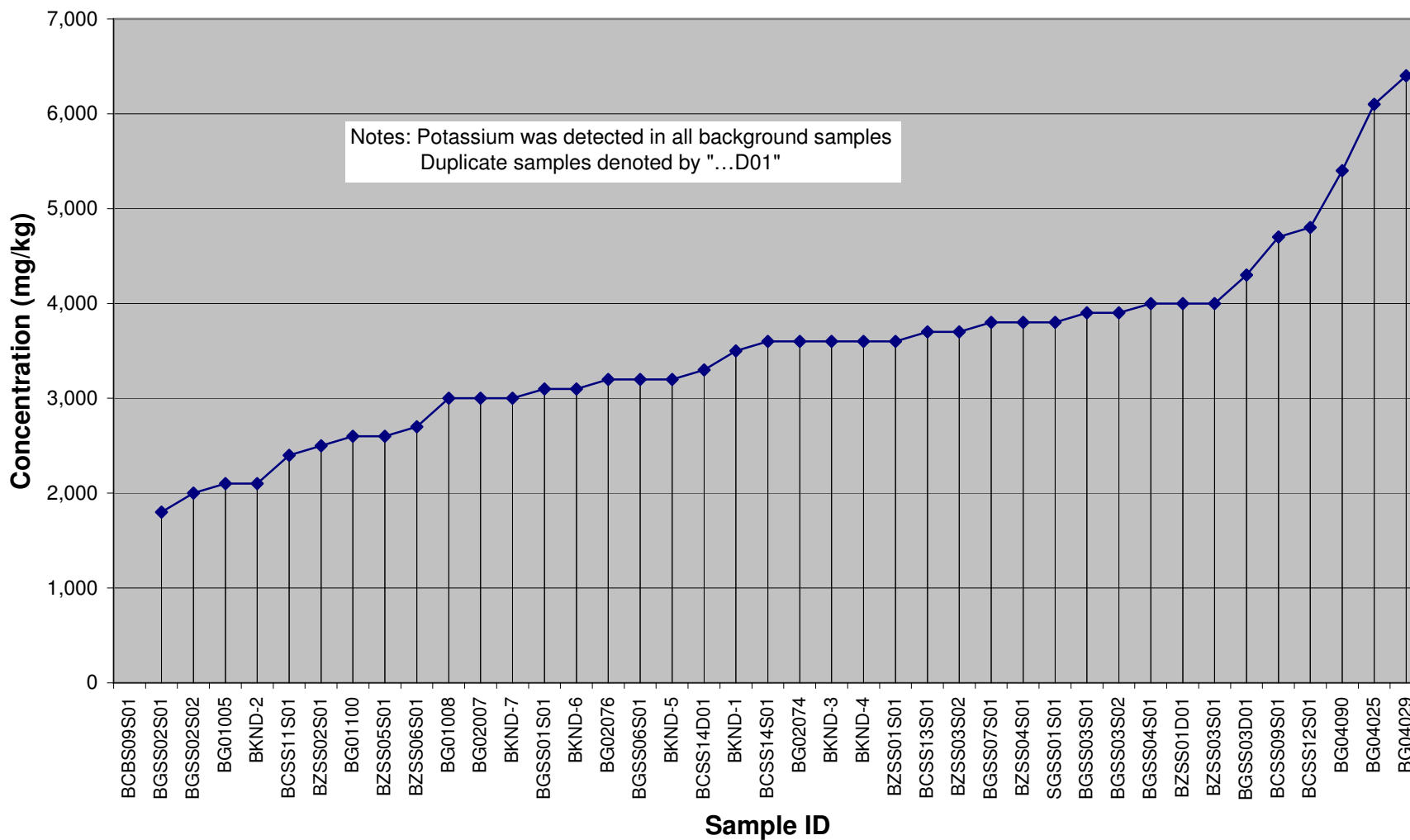
Rank Order Plot for Molybdenum in Background Soil



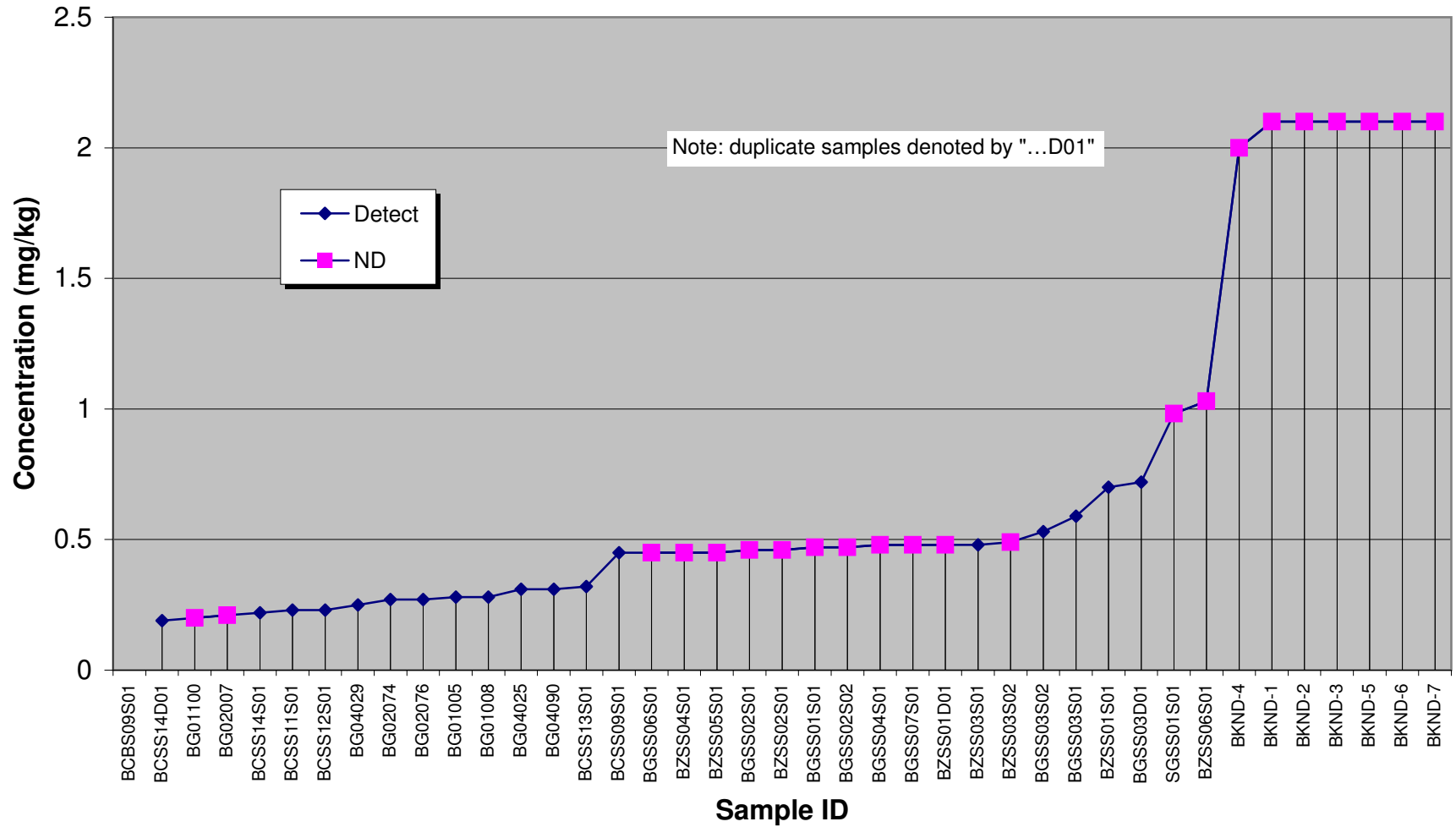
Rank Order Plot for Nickel in Background Soil



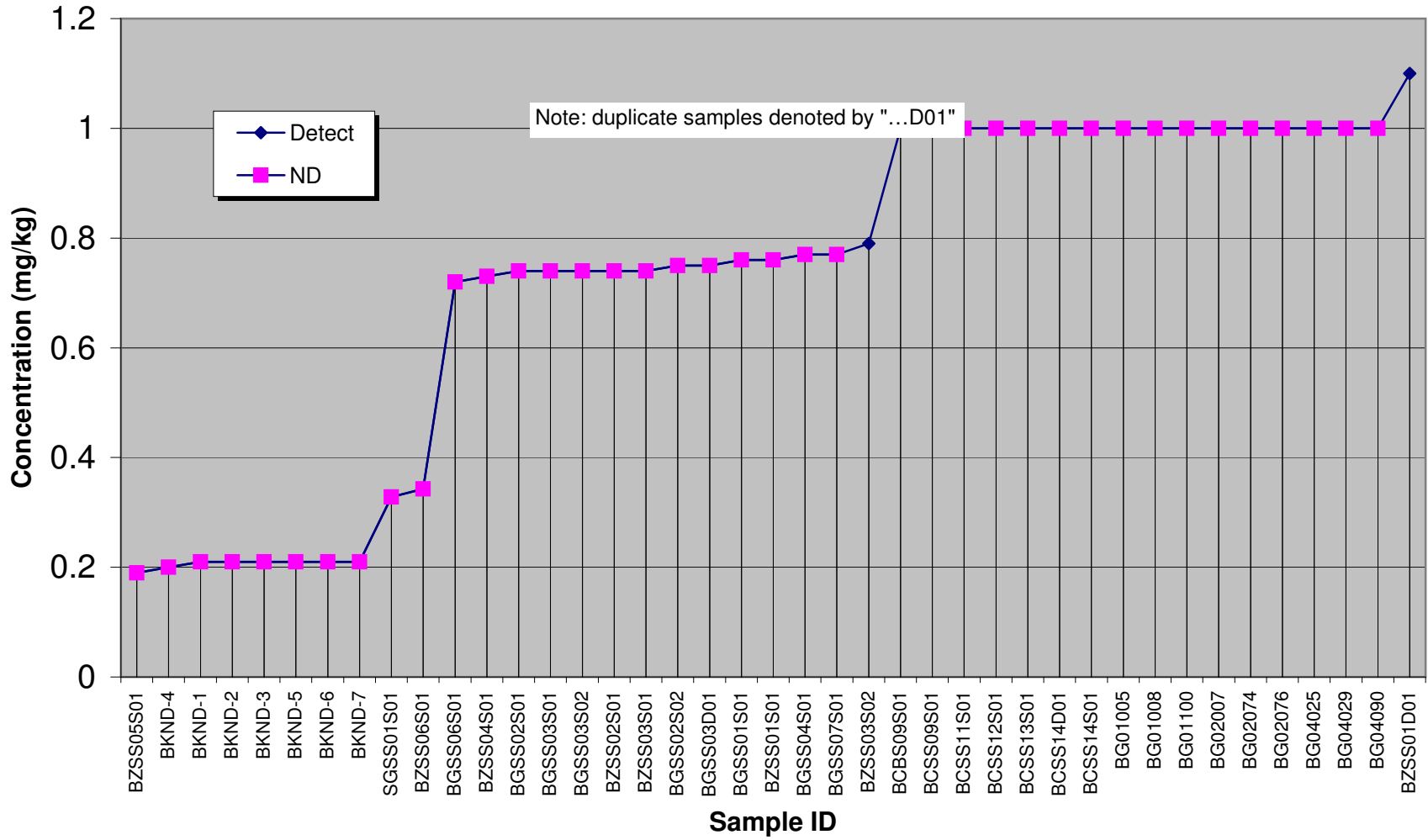
Rank Order Plot for Potassium in Background Soil



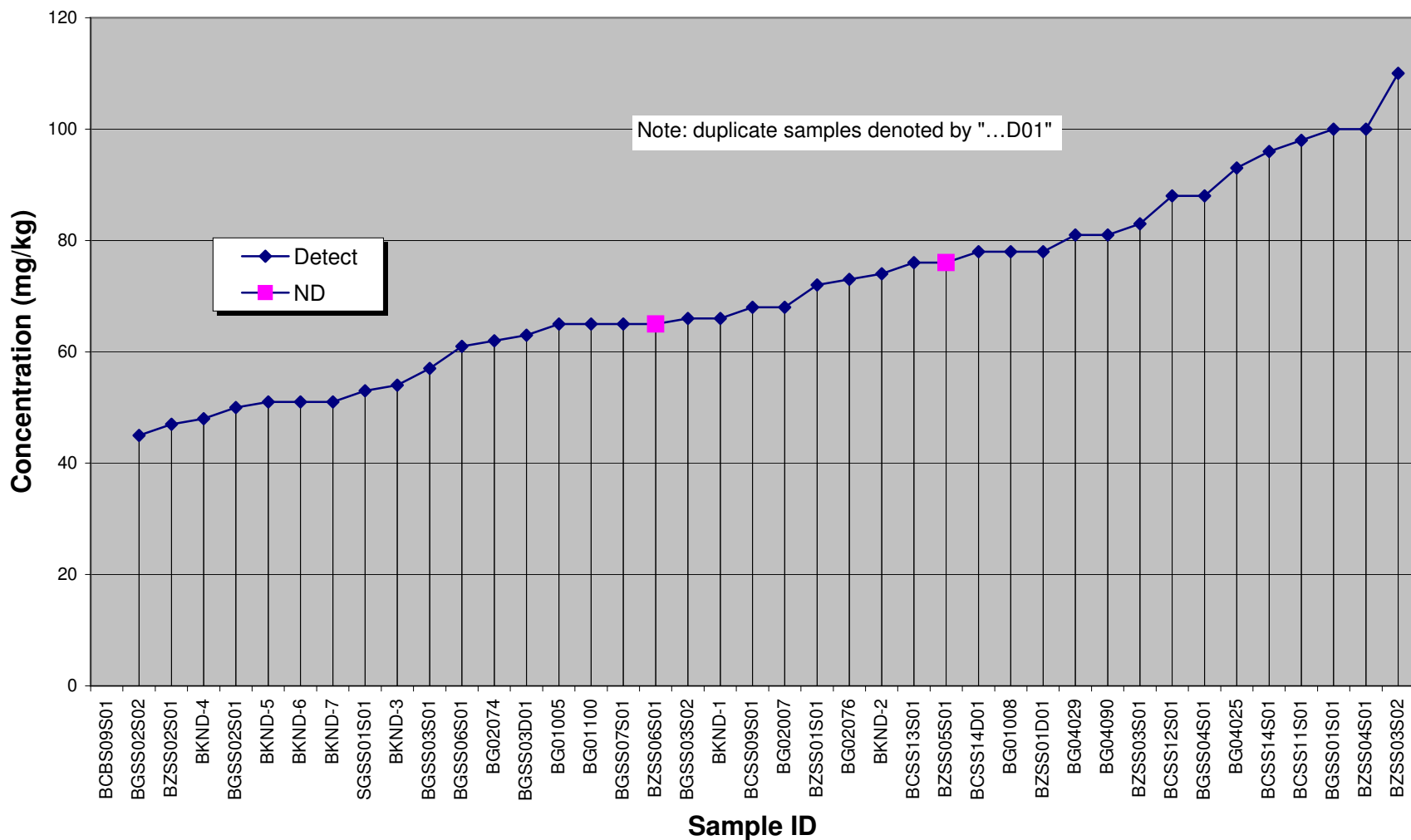
Rank Order Plot for Selenium in Background Soil



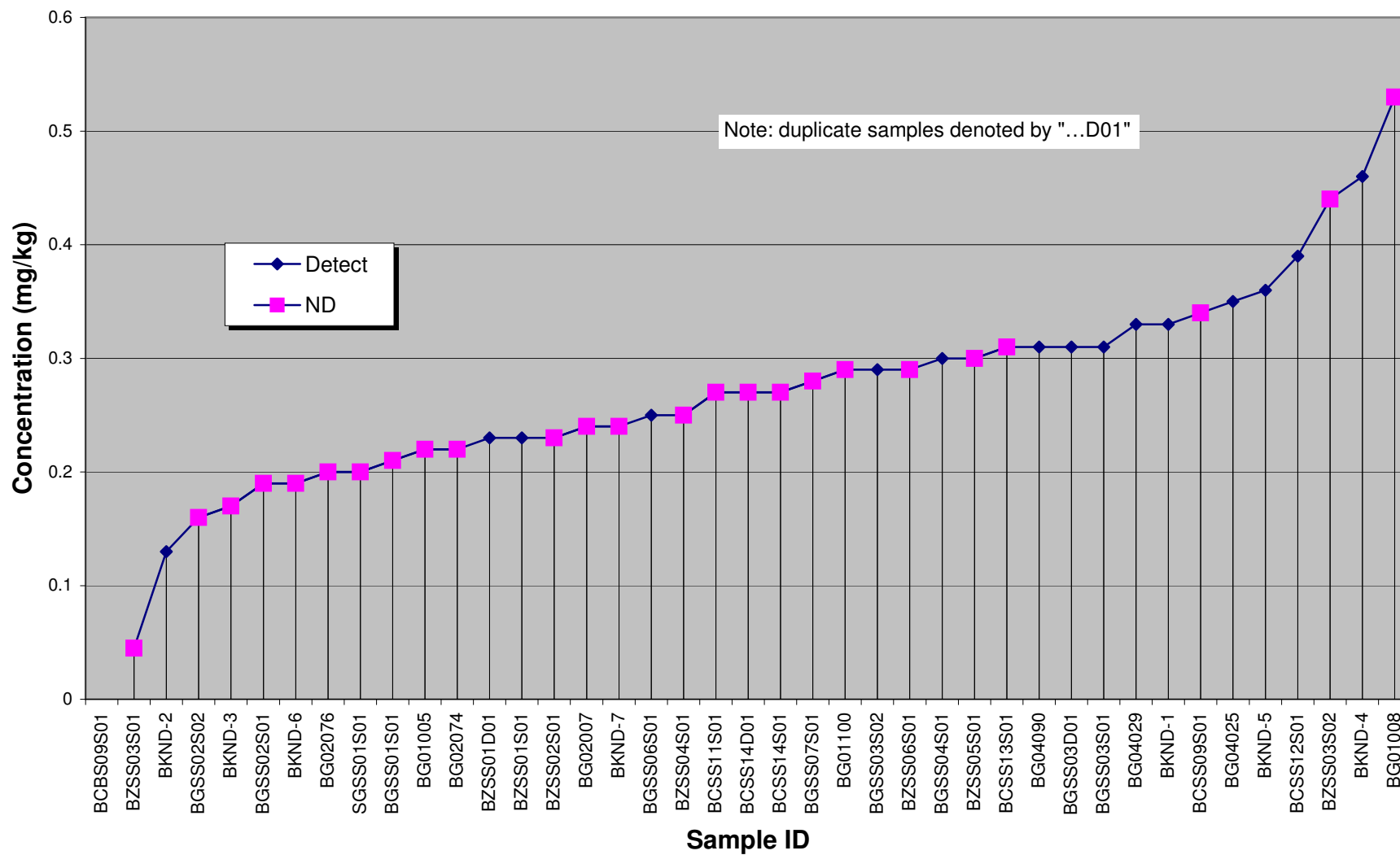
Rank Order Plot for Silver in Background Soil



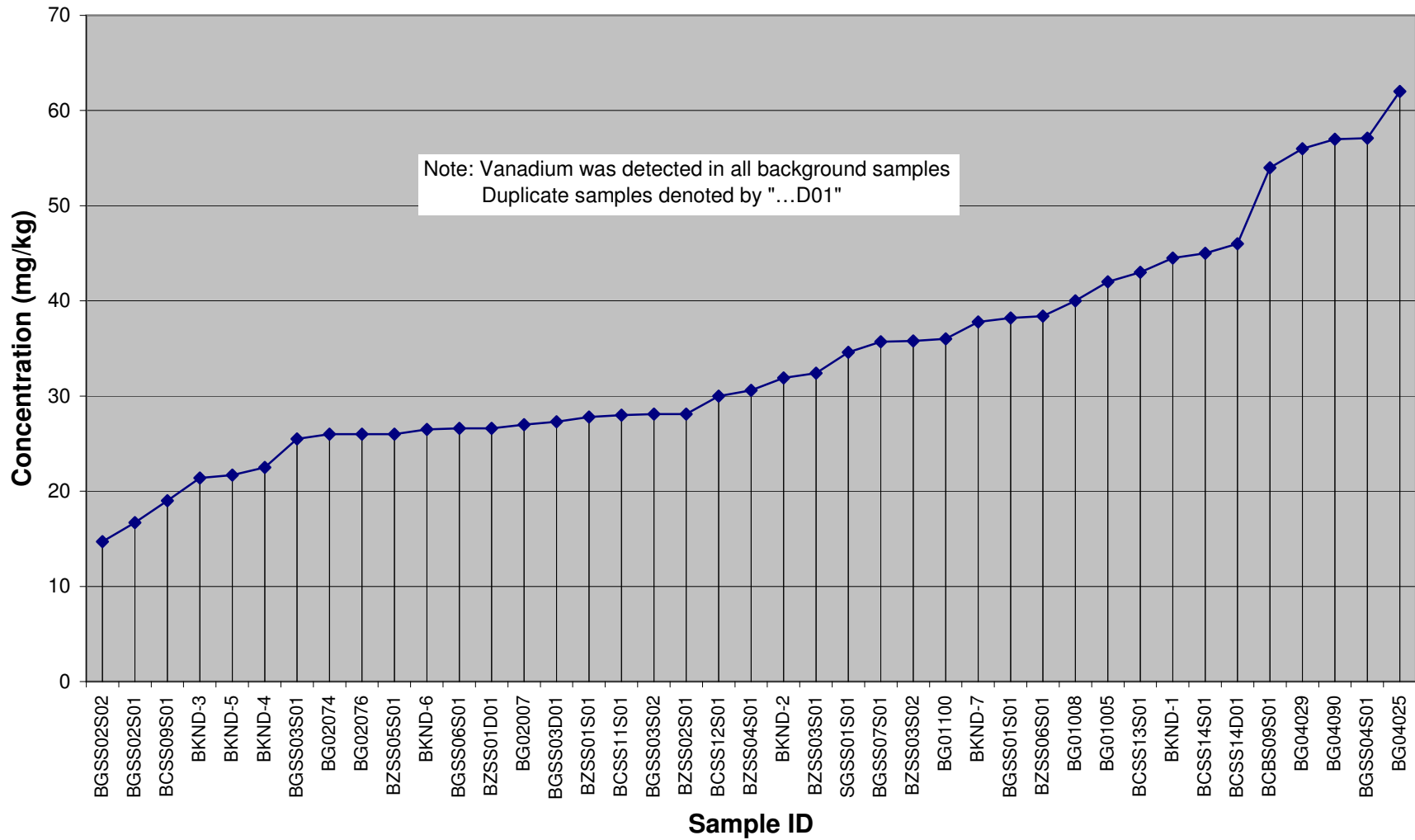
Rank Order Plot for Sodium in Background Soil



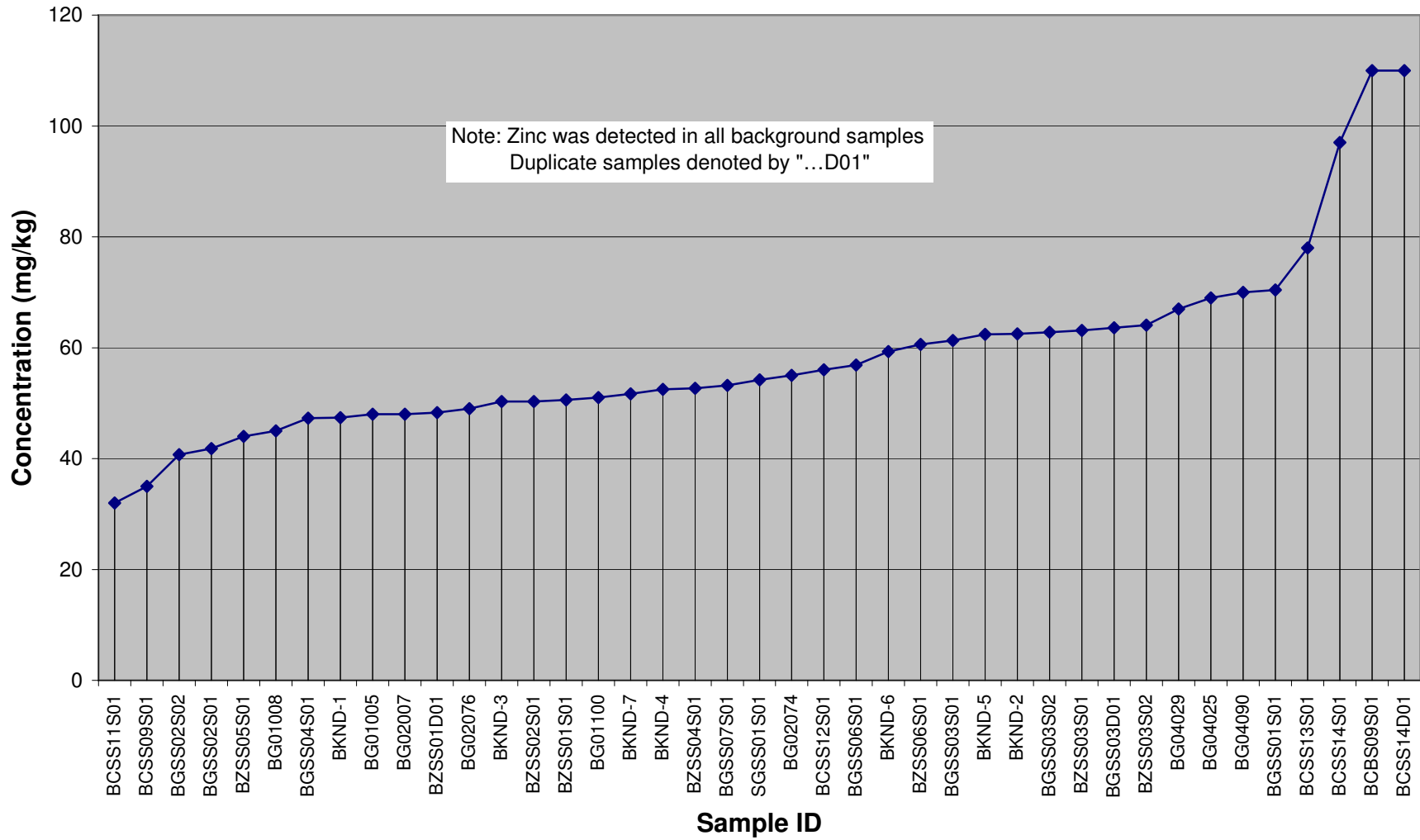
Rank Order Plot for Thallium in Background Soil



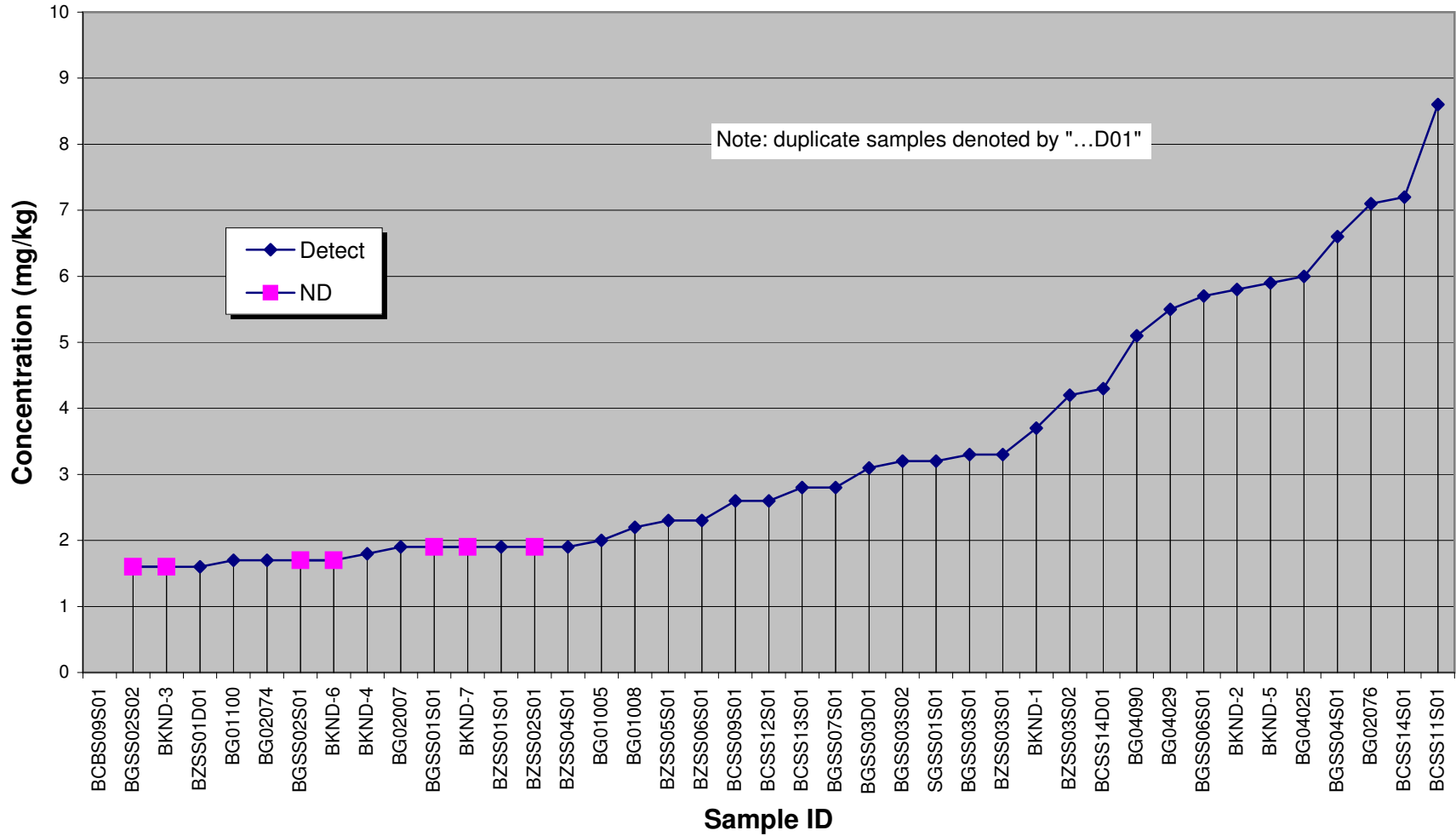
Rank Order Plot for Vanadium in Background Soil



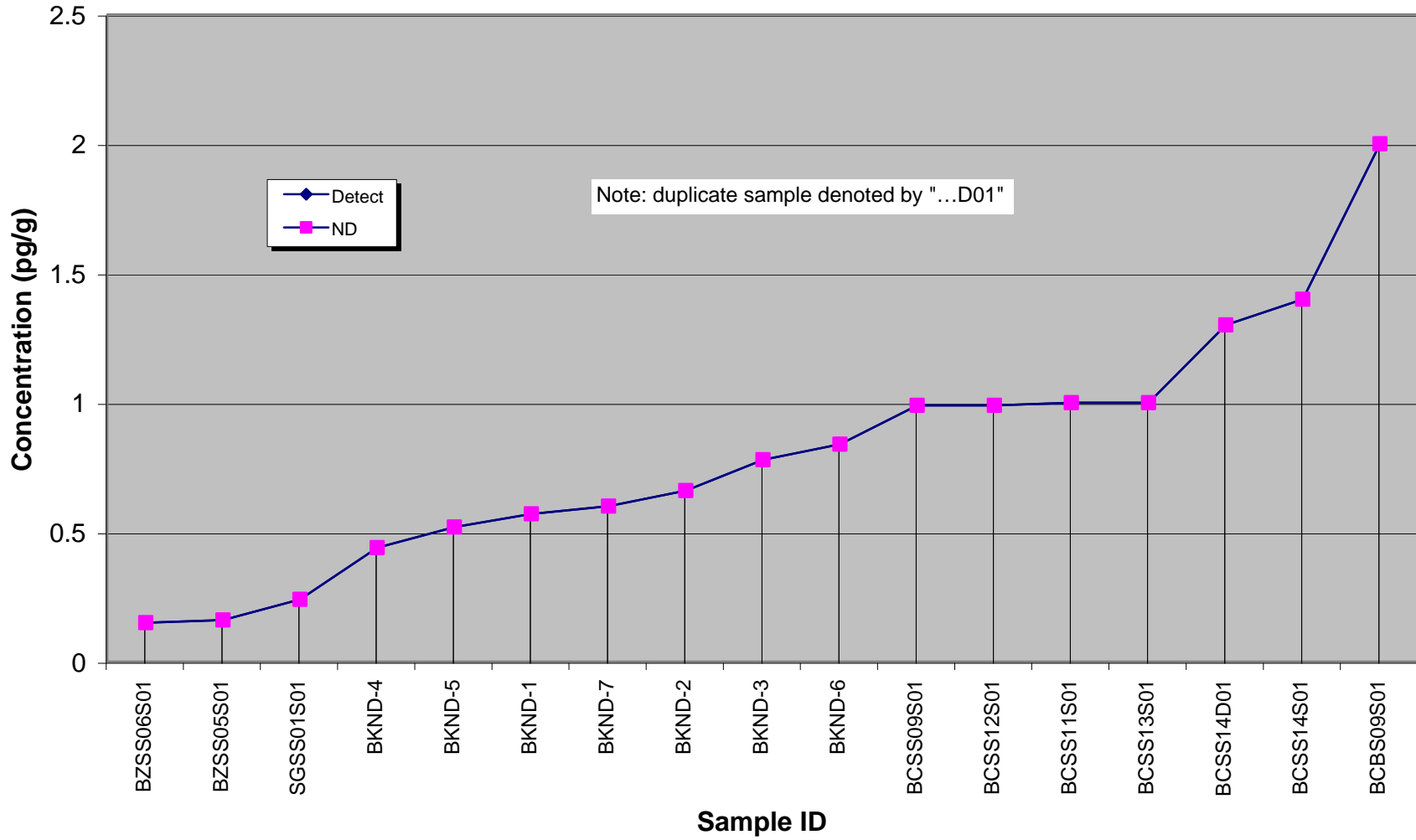
Rank Order Plot for Zinc in Background Soil



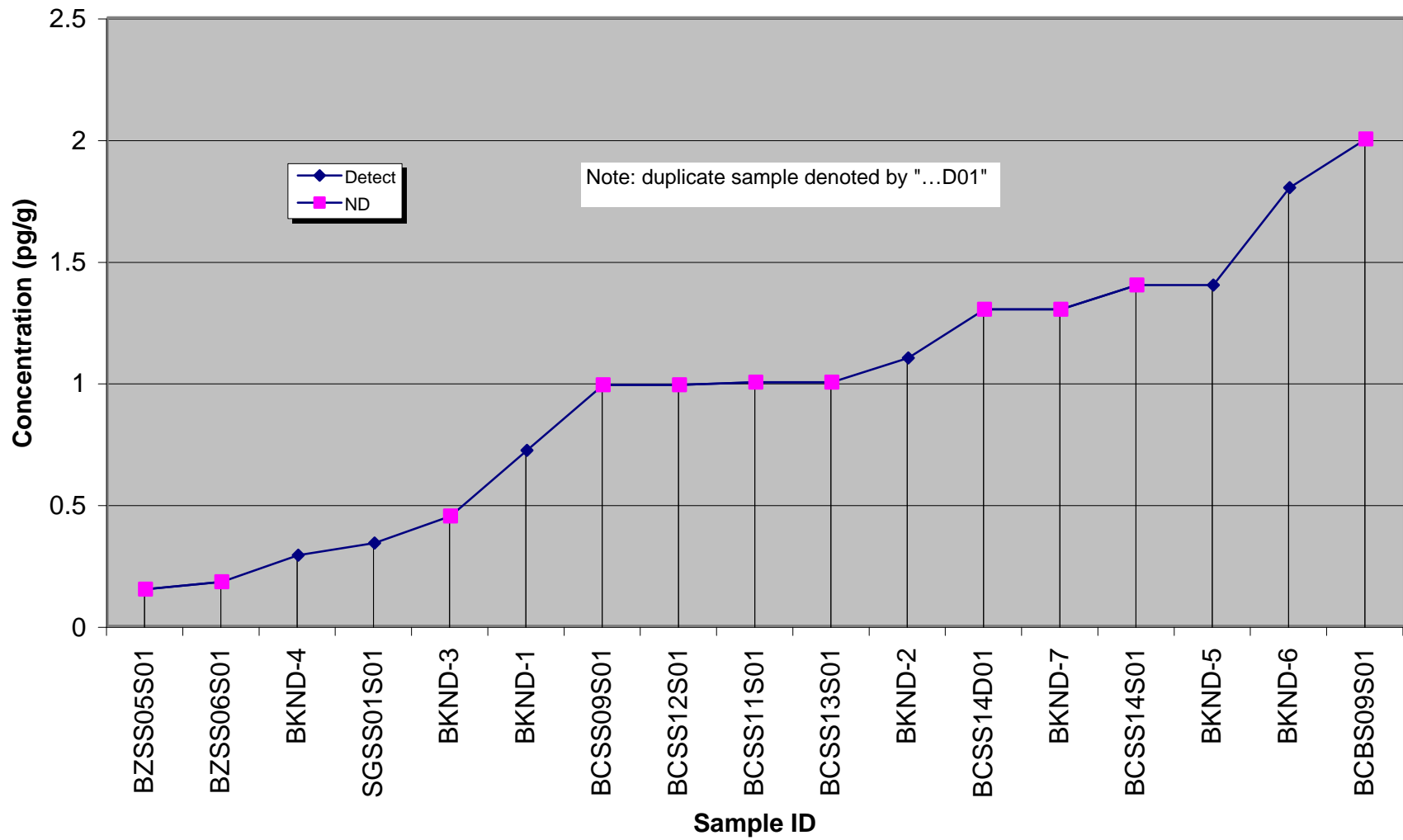
Rank Order Plot for Zirconium in Background Soil



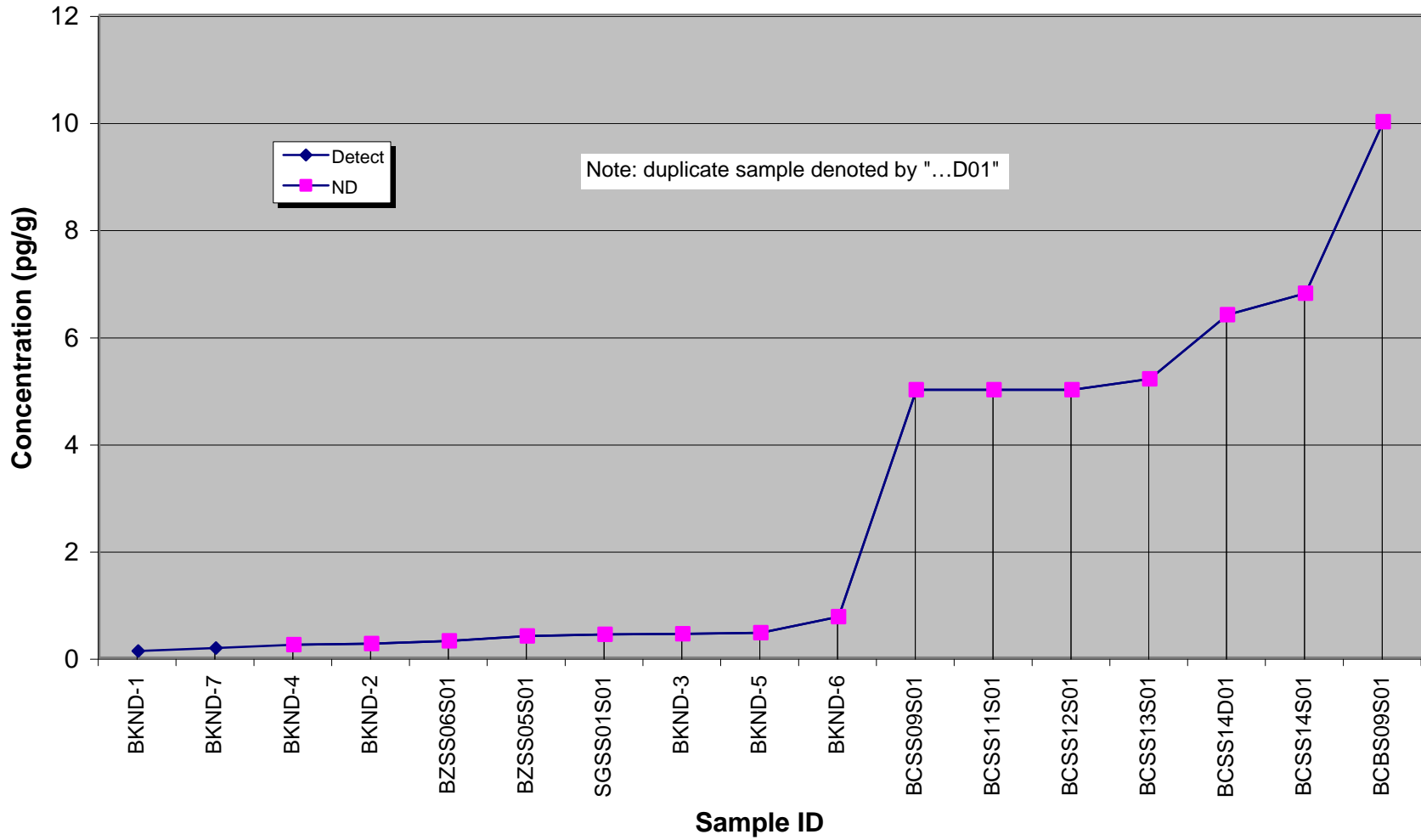
Rank Order Plot for 2,3,7,8-TCDD in Background Soil



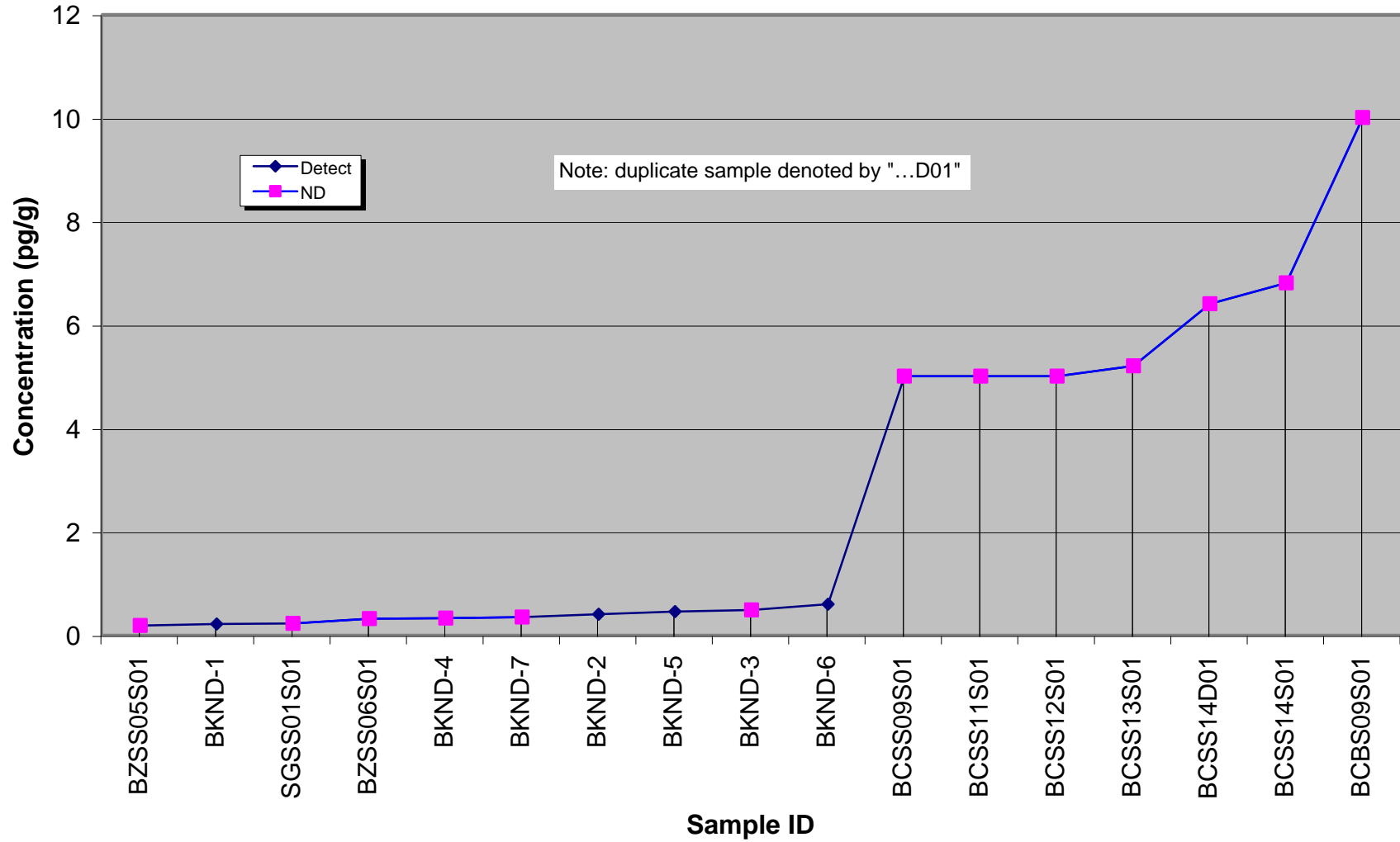
Rank Order Plot for 2,3,7,8-TCDF in Background Soil



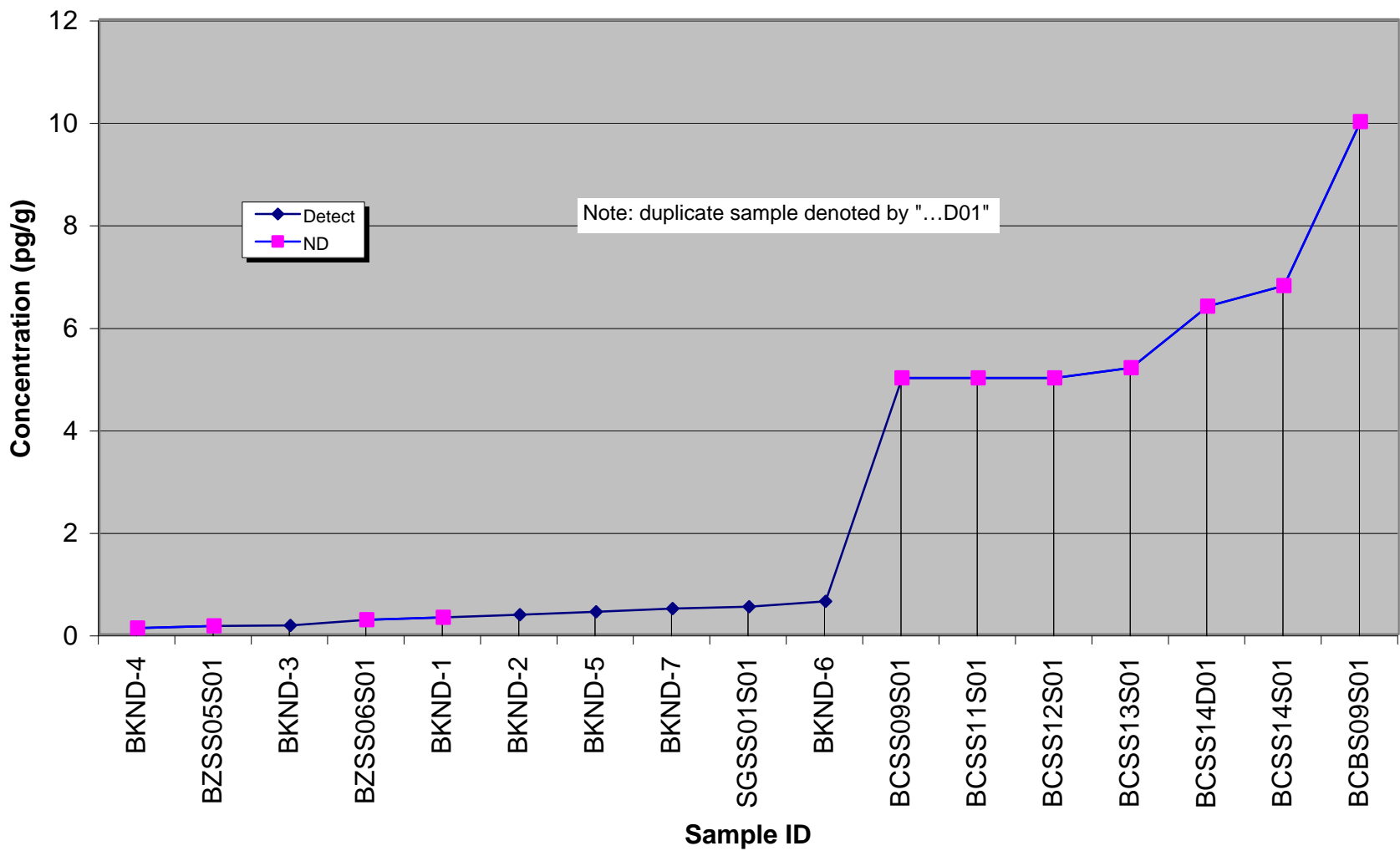
Rank Order Plot for 1,2,3,7,8-PeCDD in Background Soil



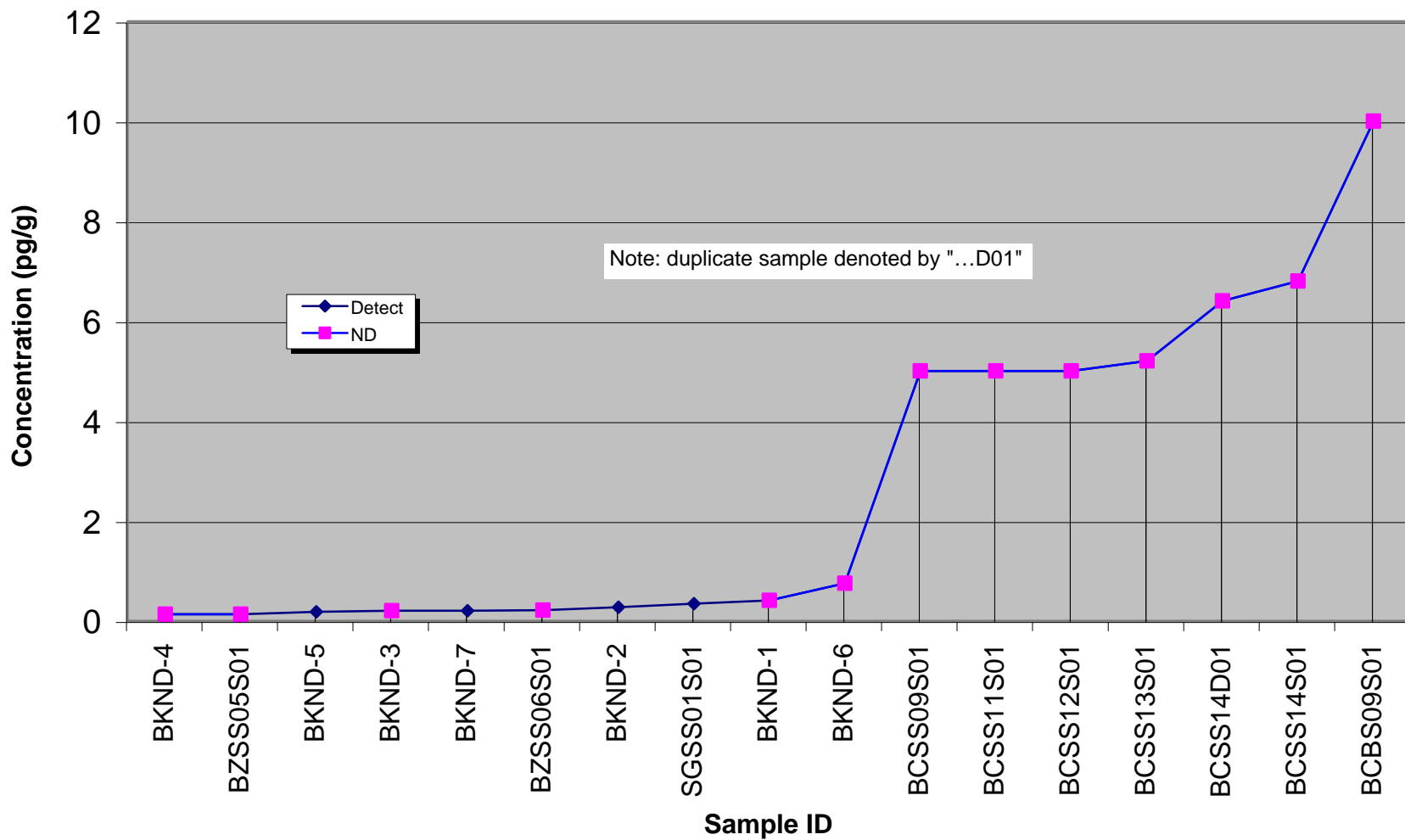
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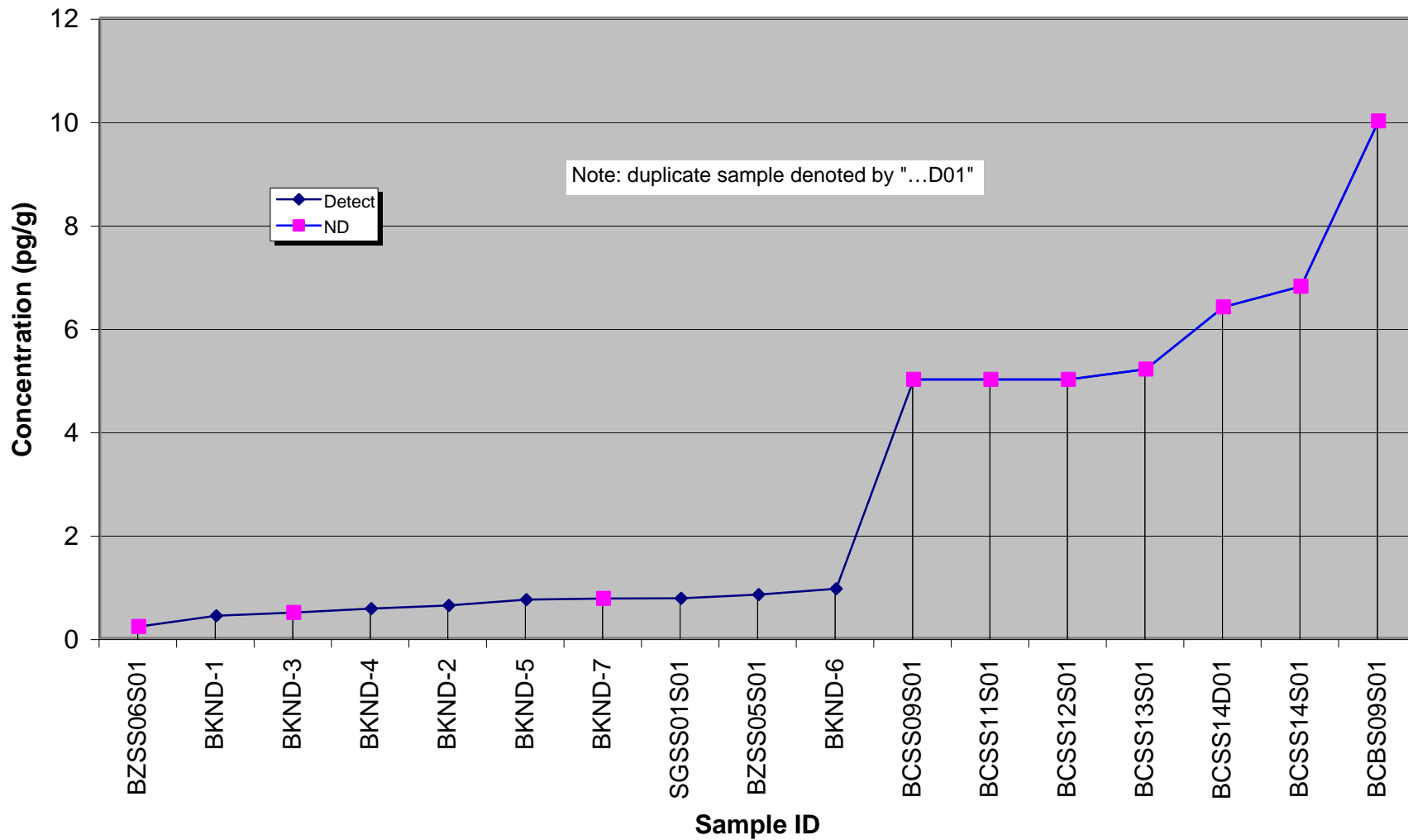
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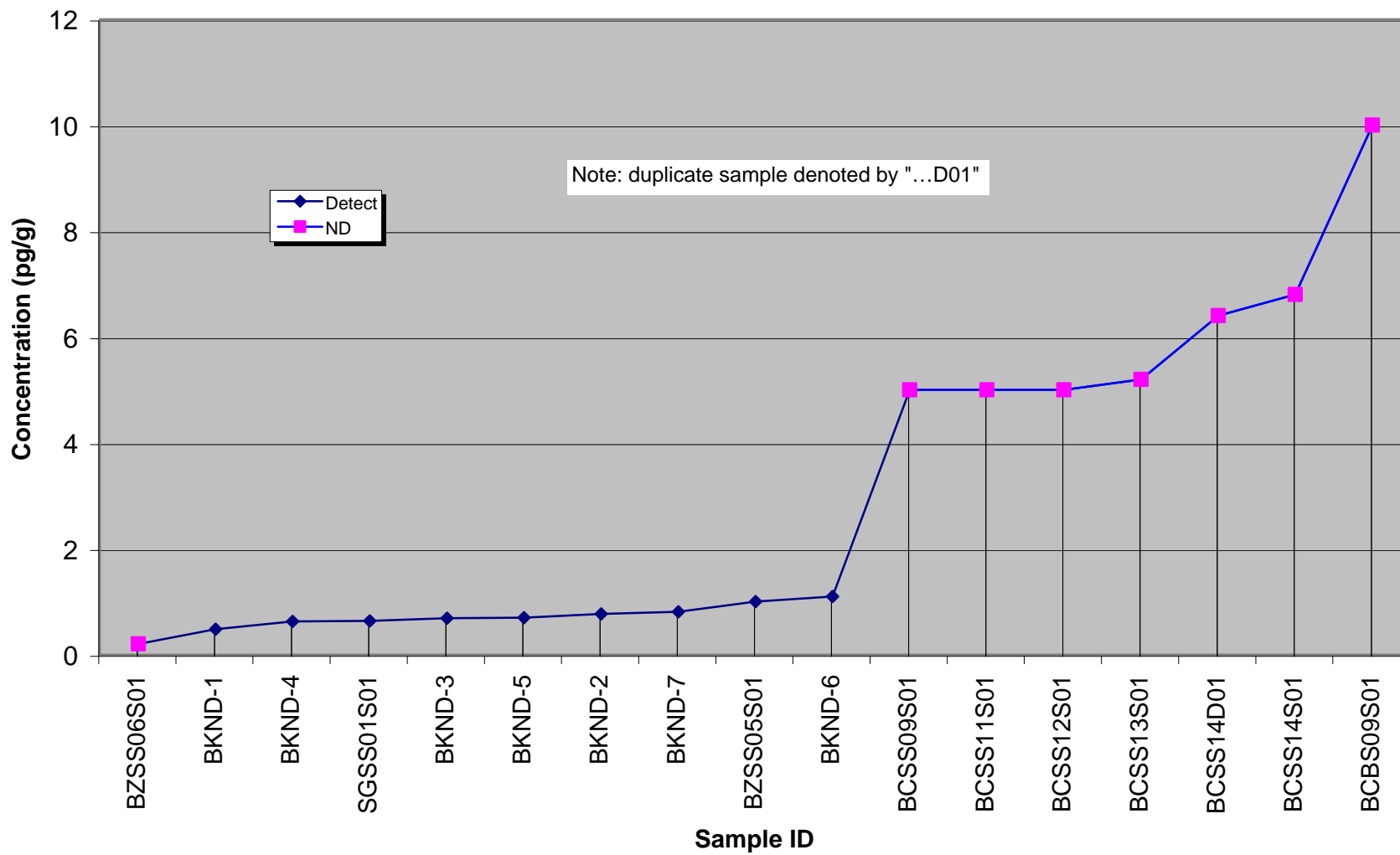
Rank Order Plot for 1,2,3,4,7,8-HxCDD in Background Soil



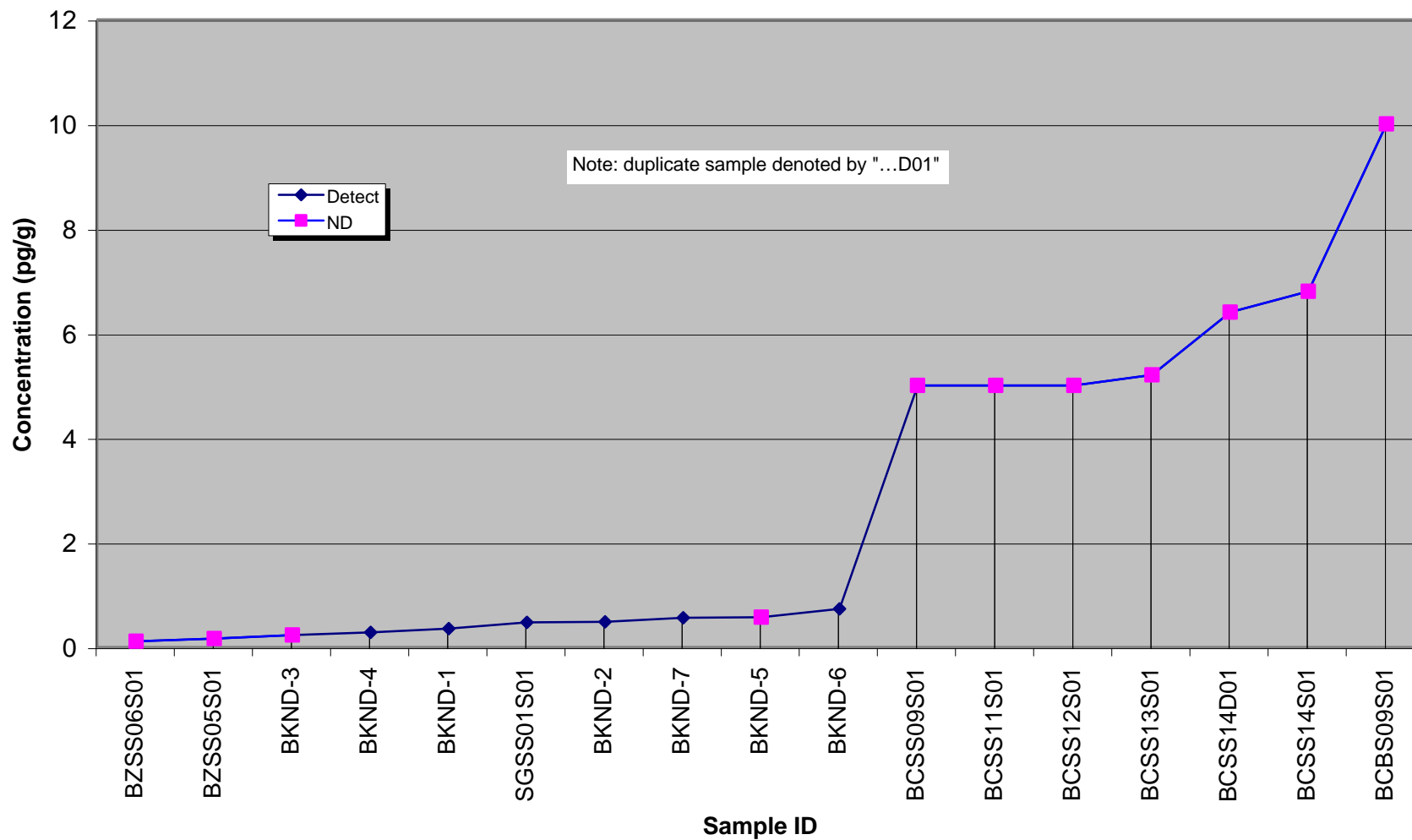
Rank Order Plot for 1,2,3,6,7,8-HxCDD in Background Soil



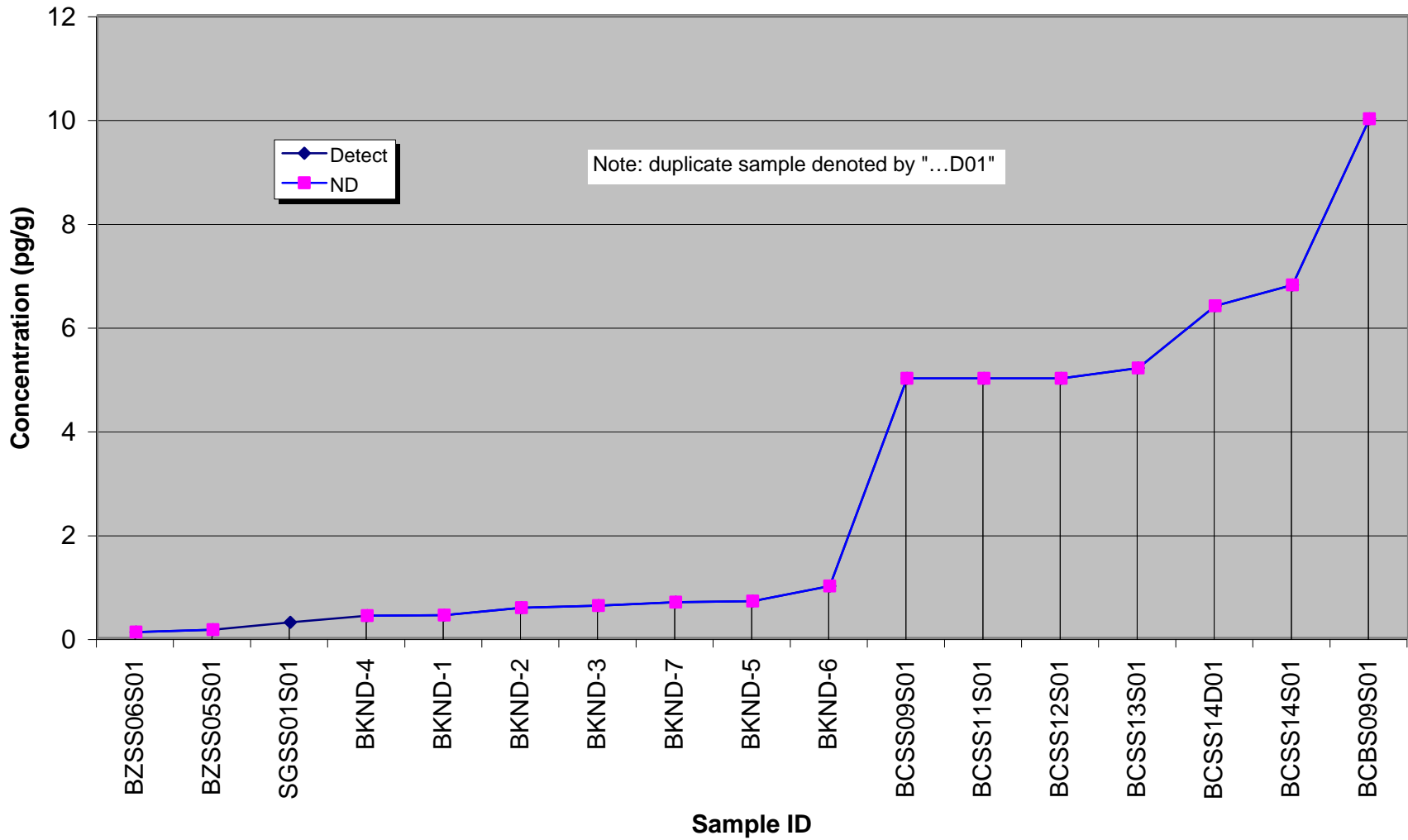
Rank Order Plot for 1,2,3,7,8,9-HxCDD in Background Soil



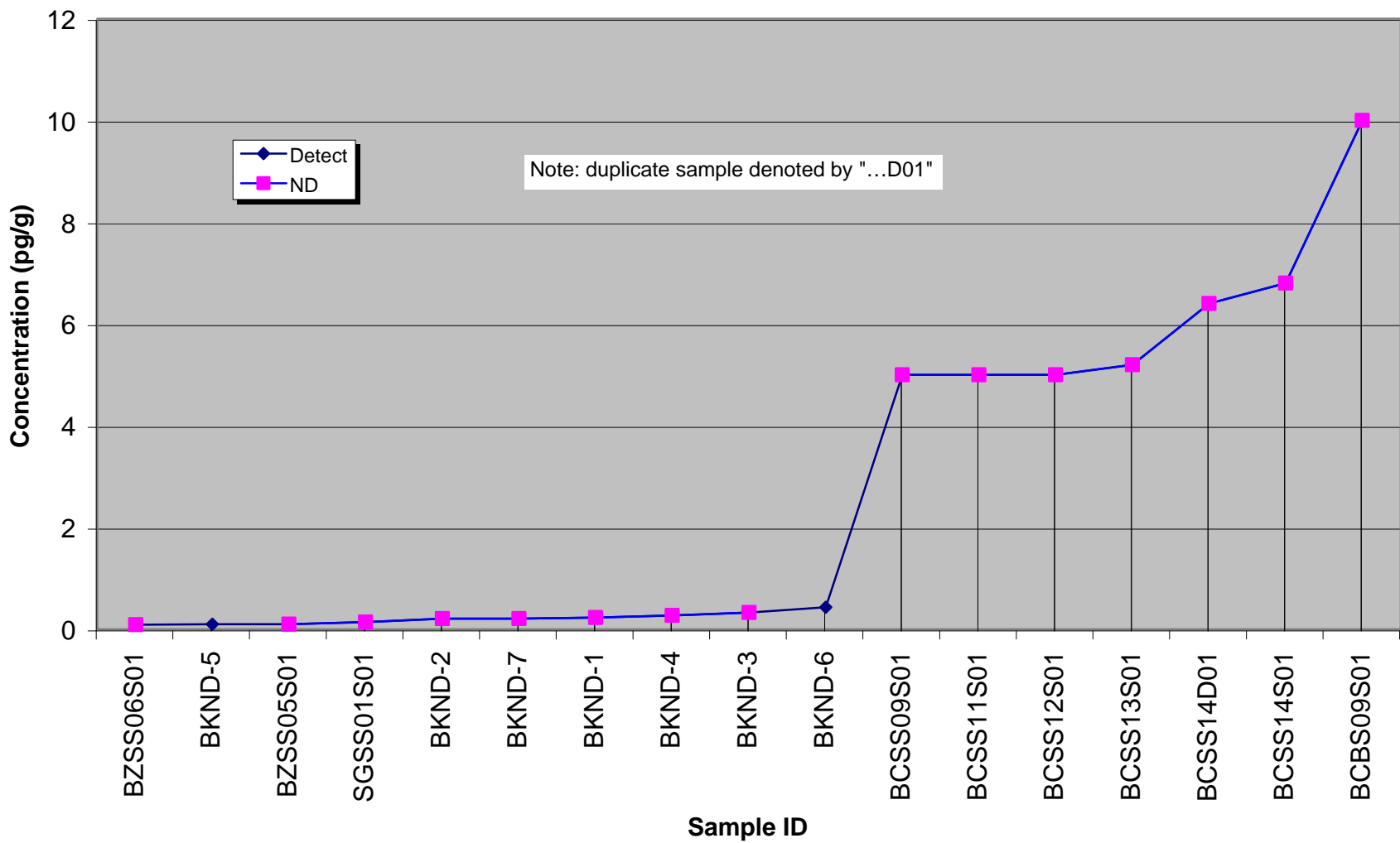
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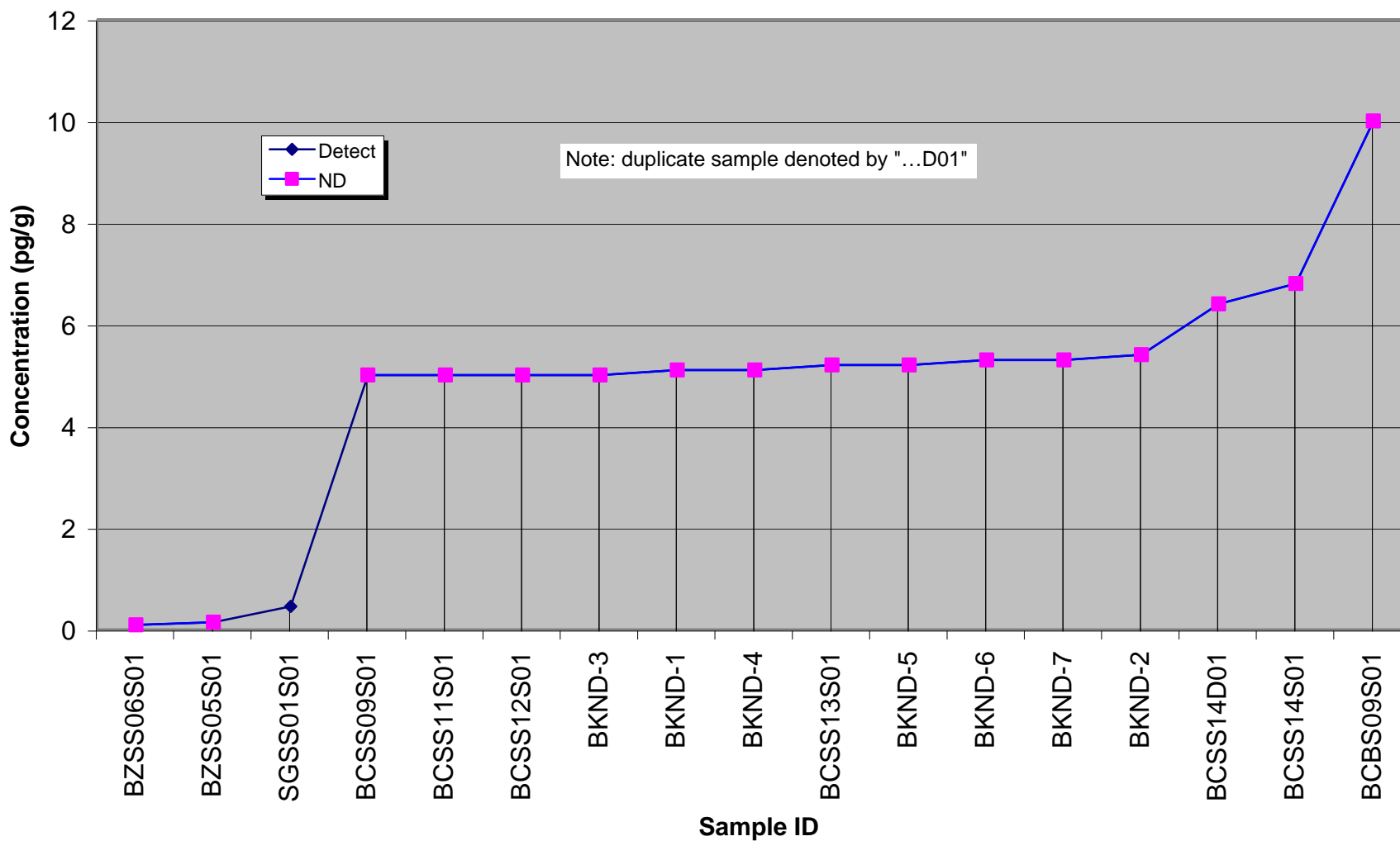
Rank Order Plot for 1,2,3,6,7,8-HxCDF in Background Soil



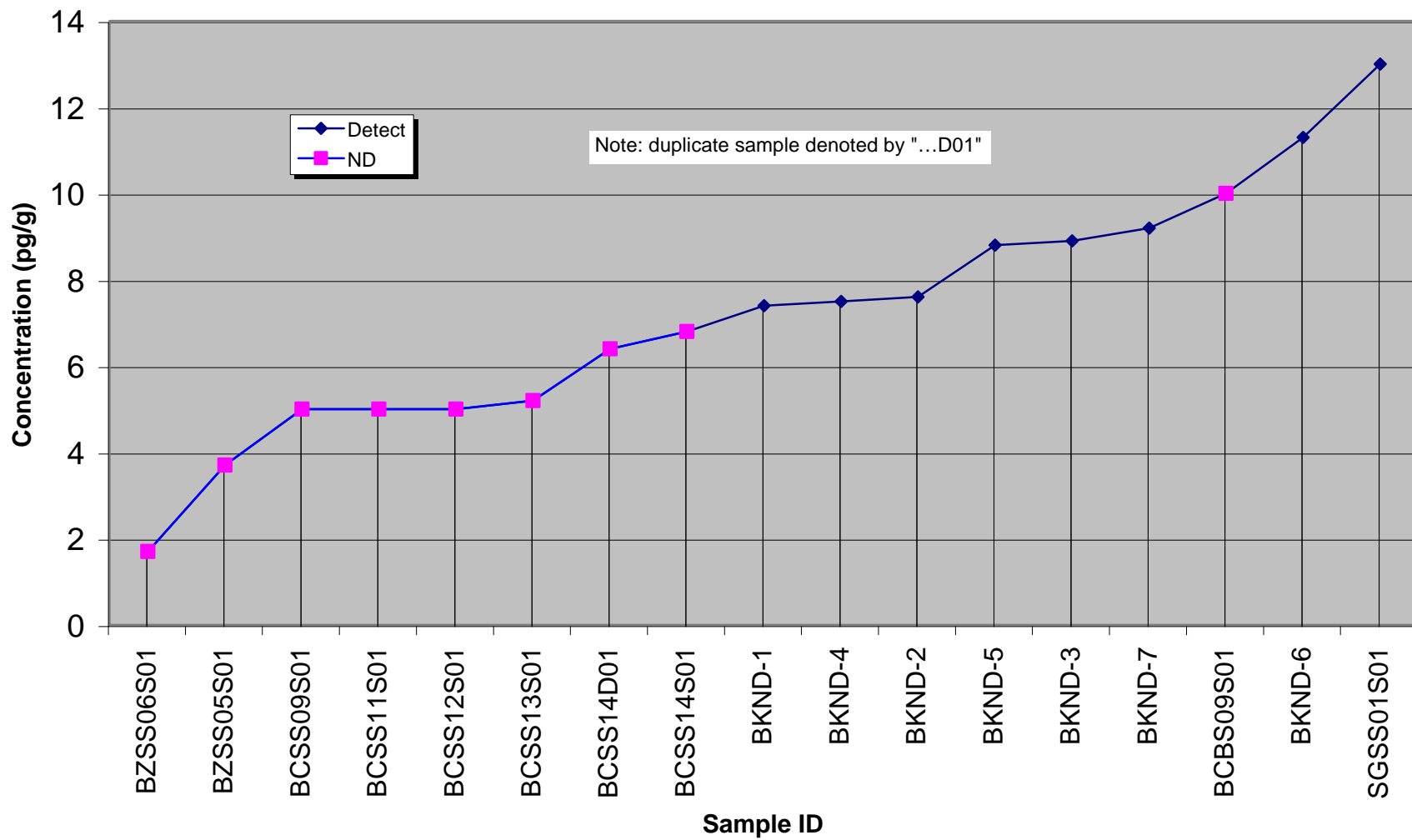
Rank Order Plot for 1,2,3,7,8,9-HxCDF in Background Soil



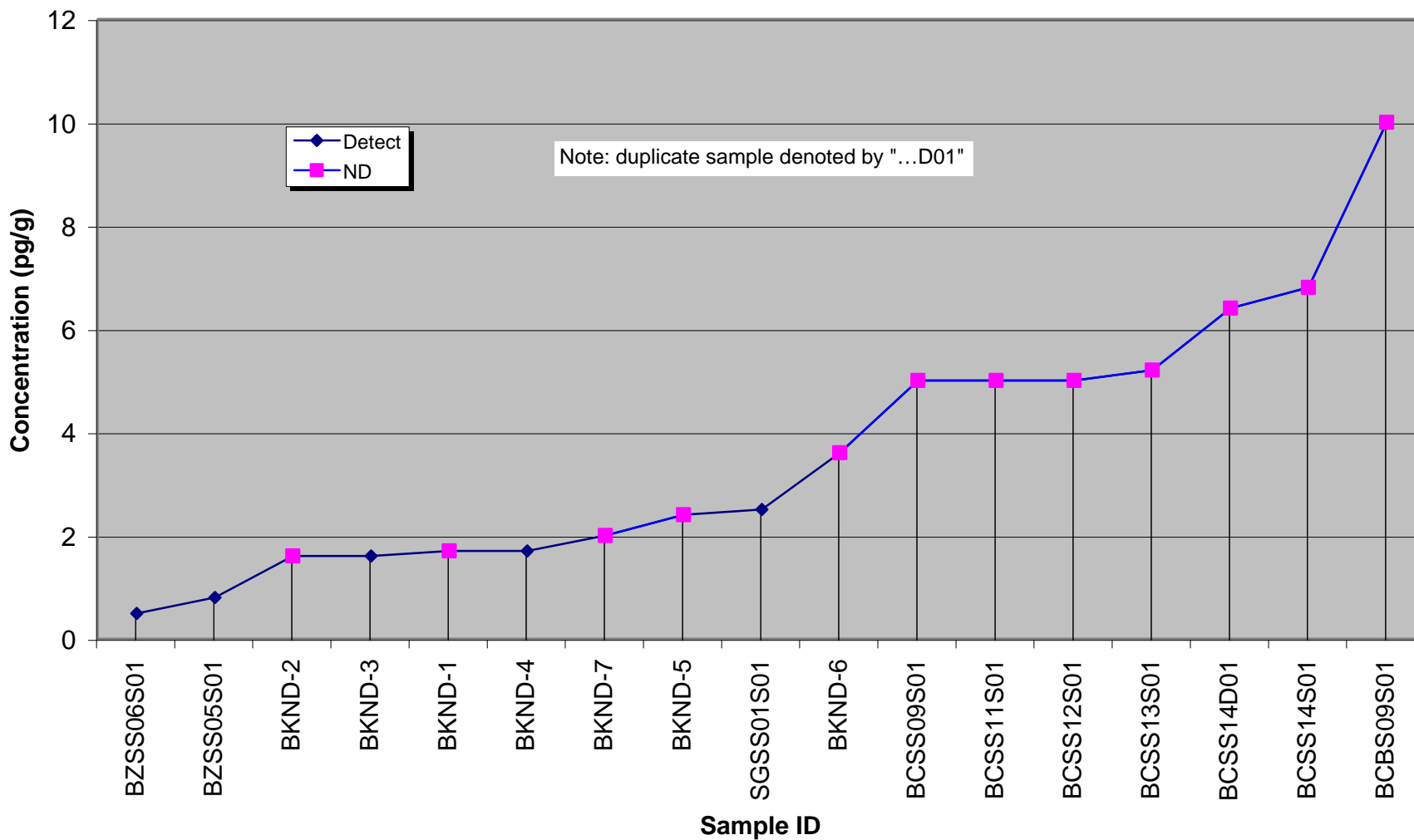
Rank Order Plot for 2,3,4,6,7,8-HxCDF in Background Soil



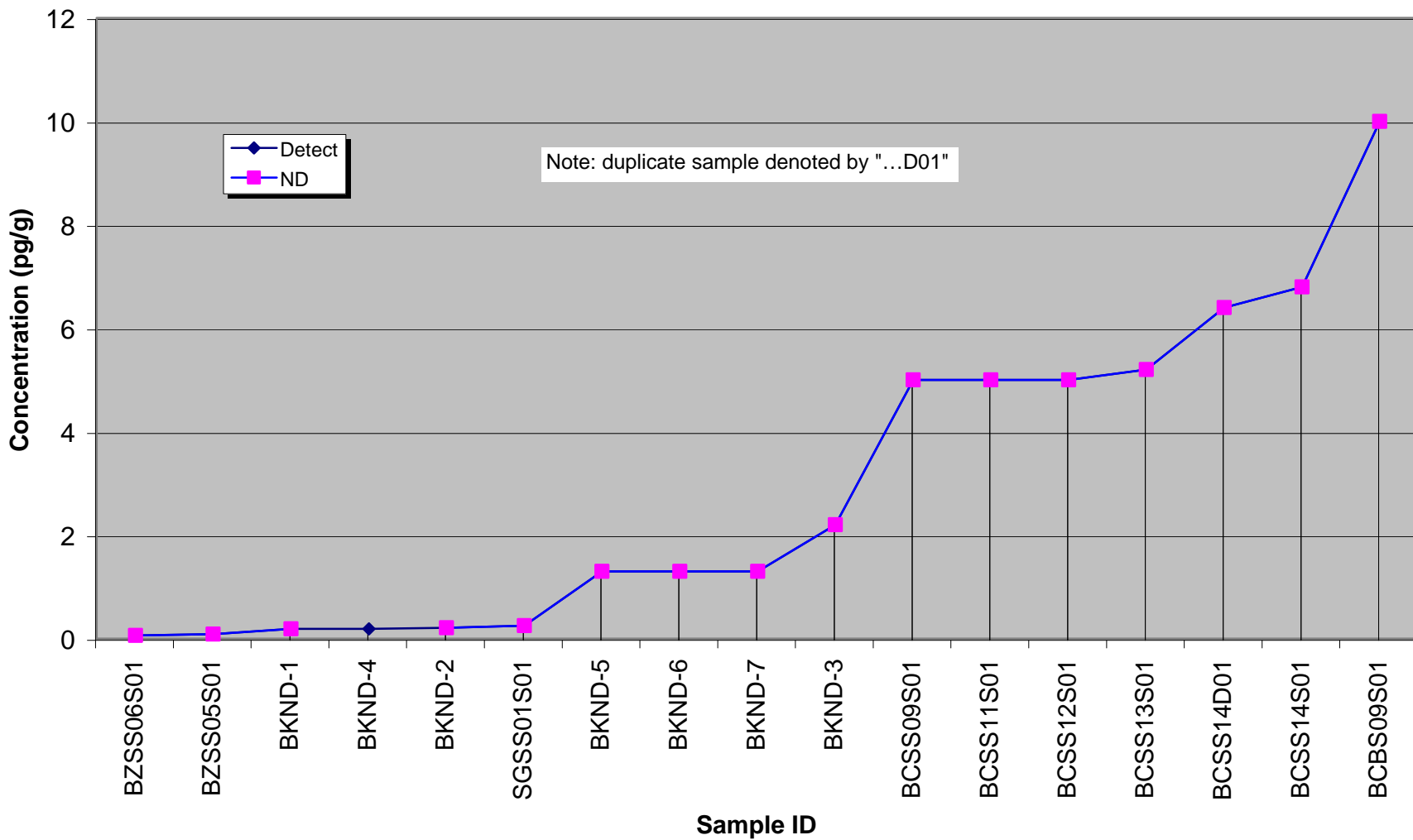
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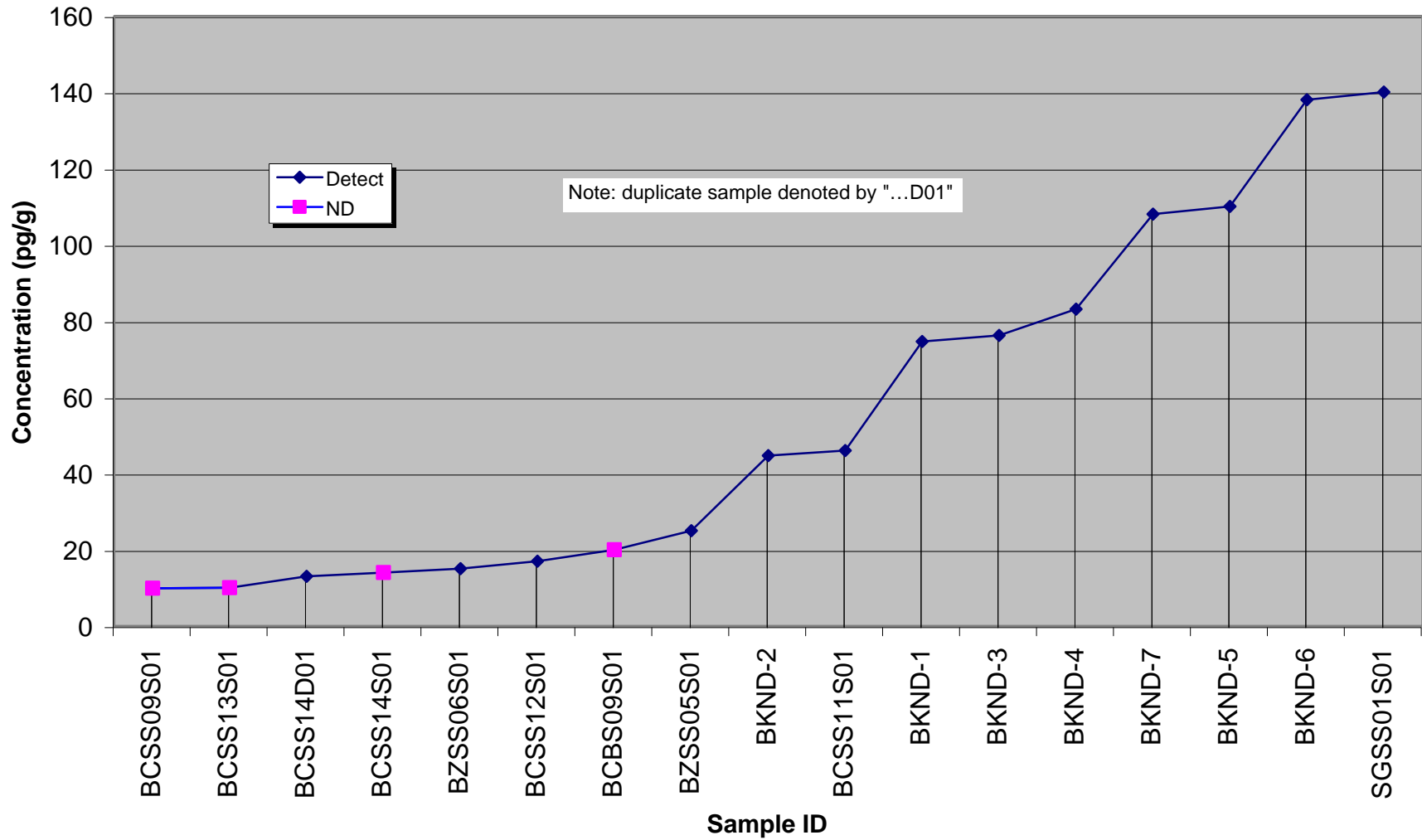
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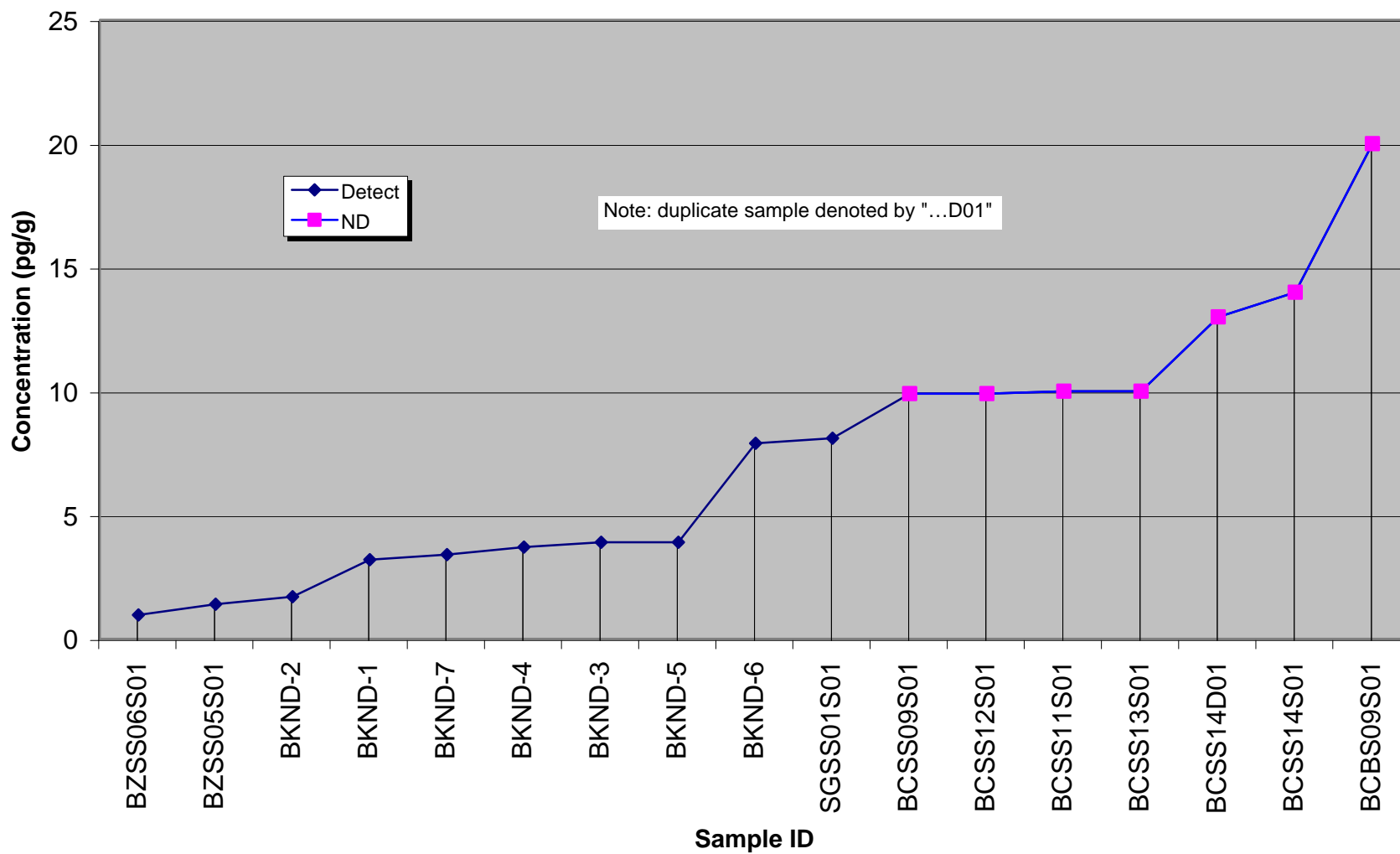
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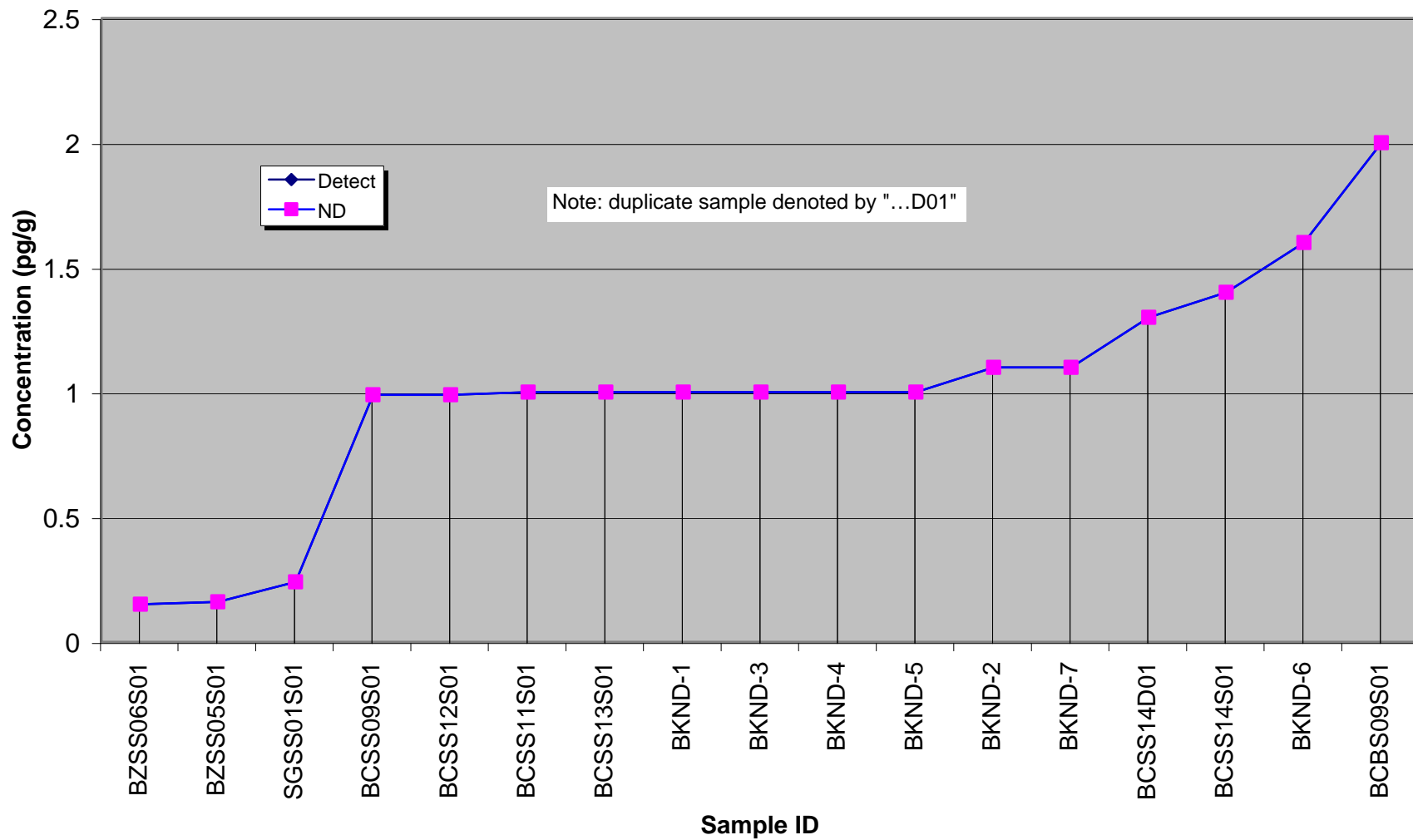
Rank Order Plot for OCDD in Background Soil



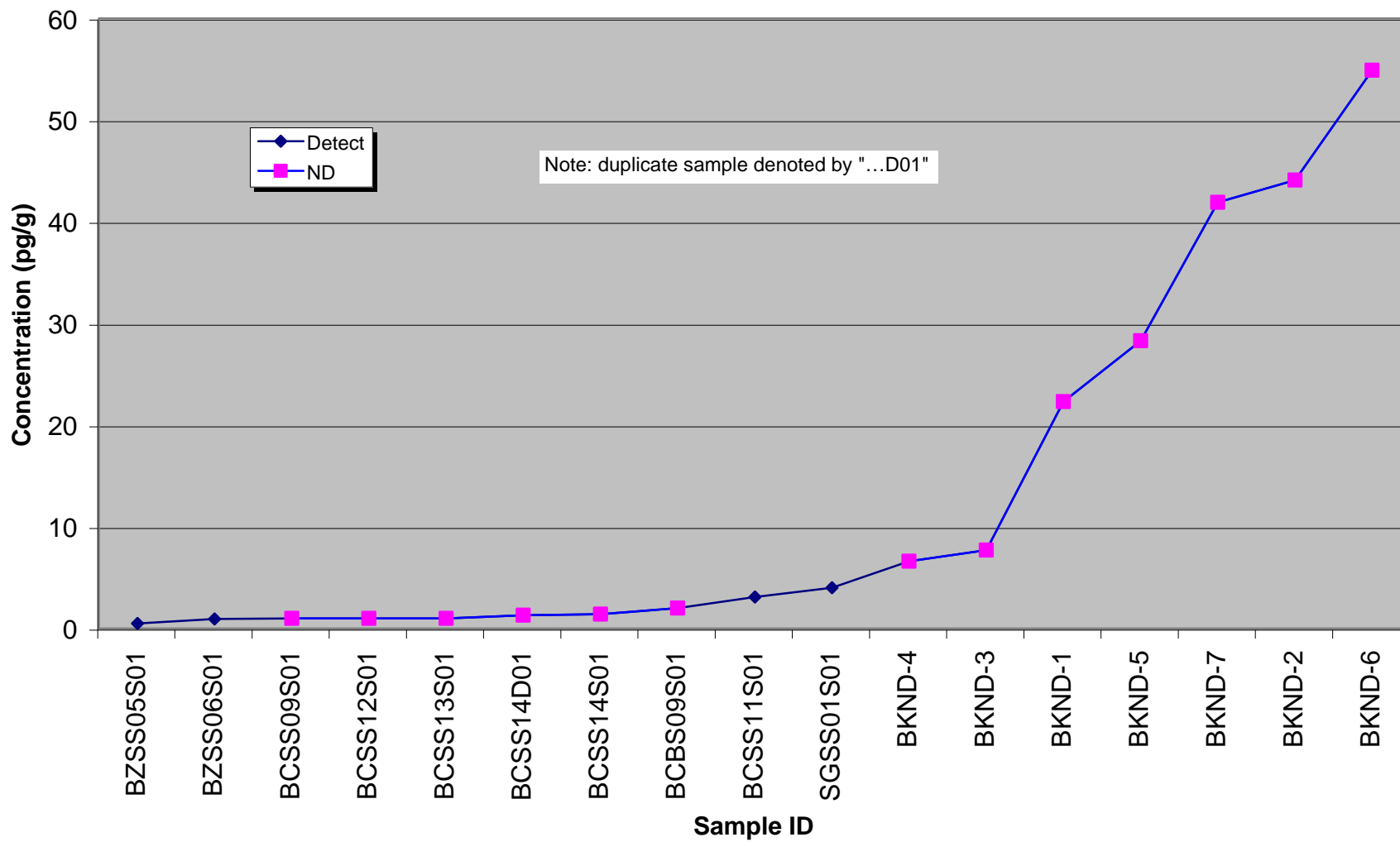
Rank Order Plot for OCDF in Background Soil



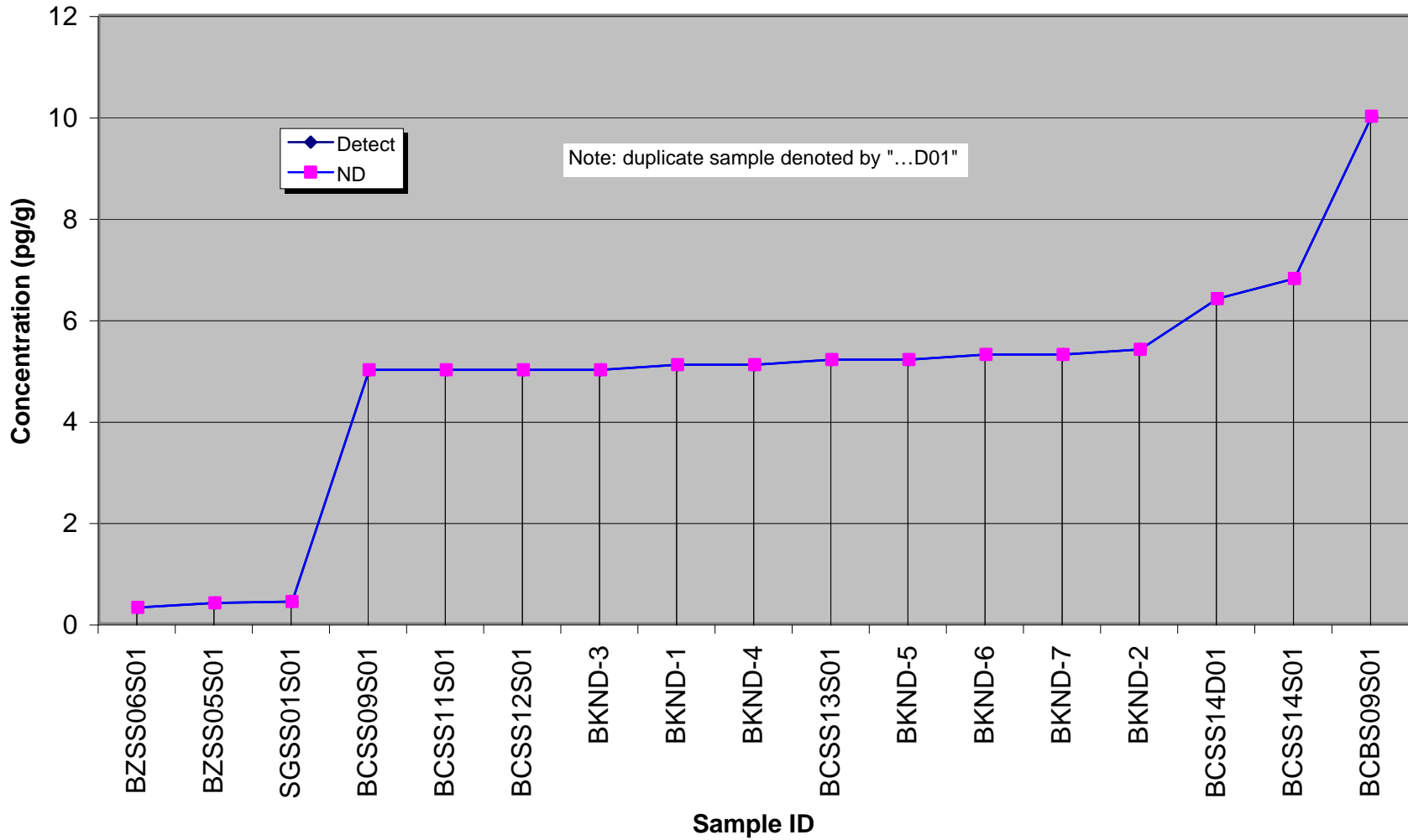
Rank Order Plot for Total TCDD in Background Soil



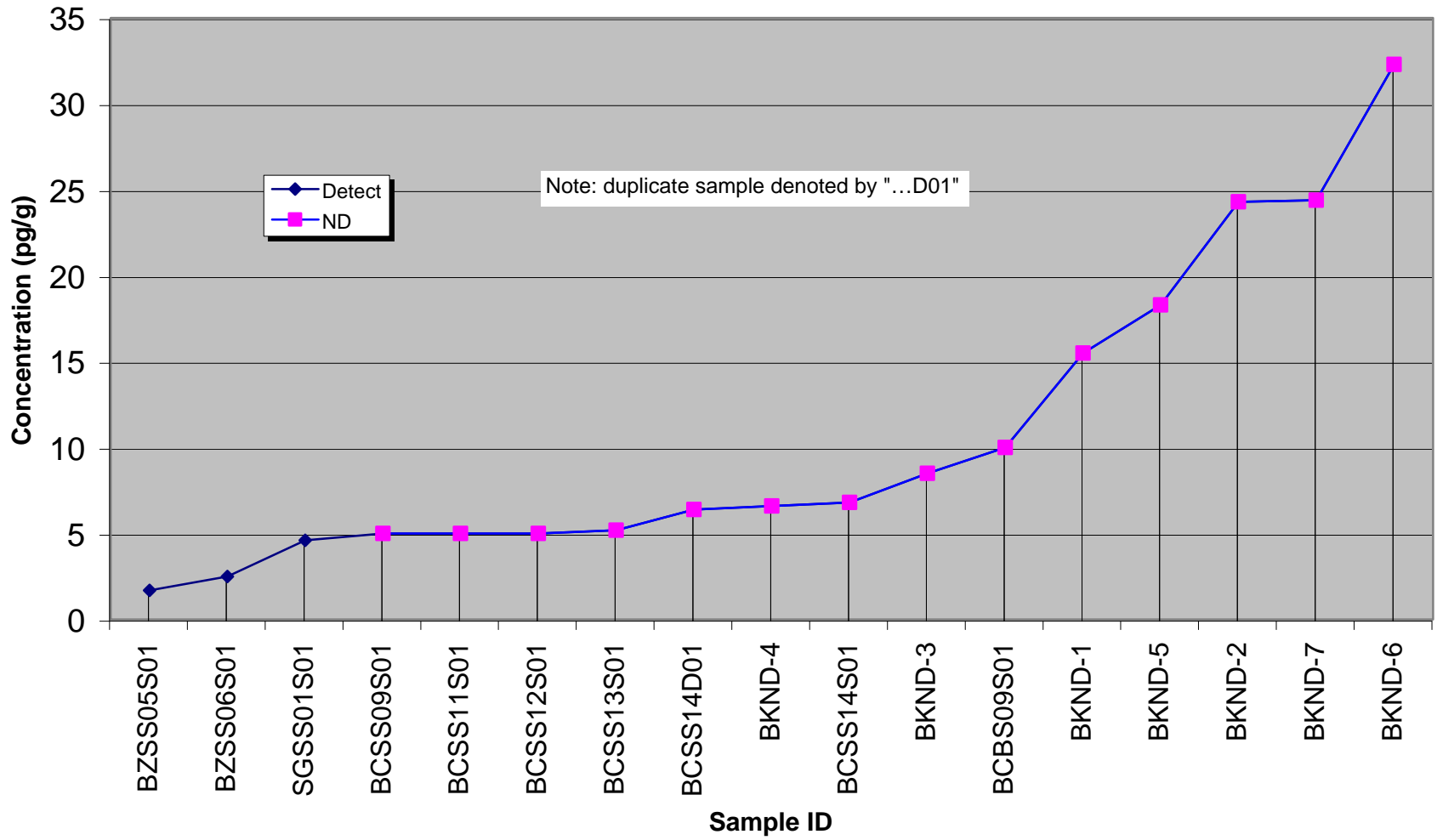
Rank Order Plot for Total TCDF in Background Soil



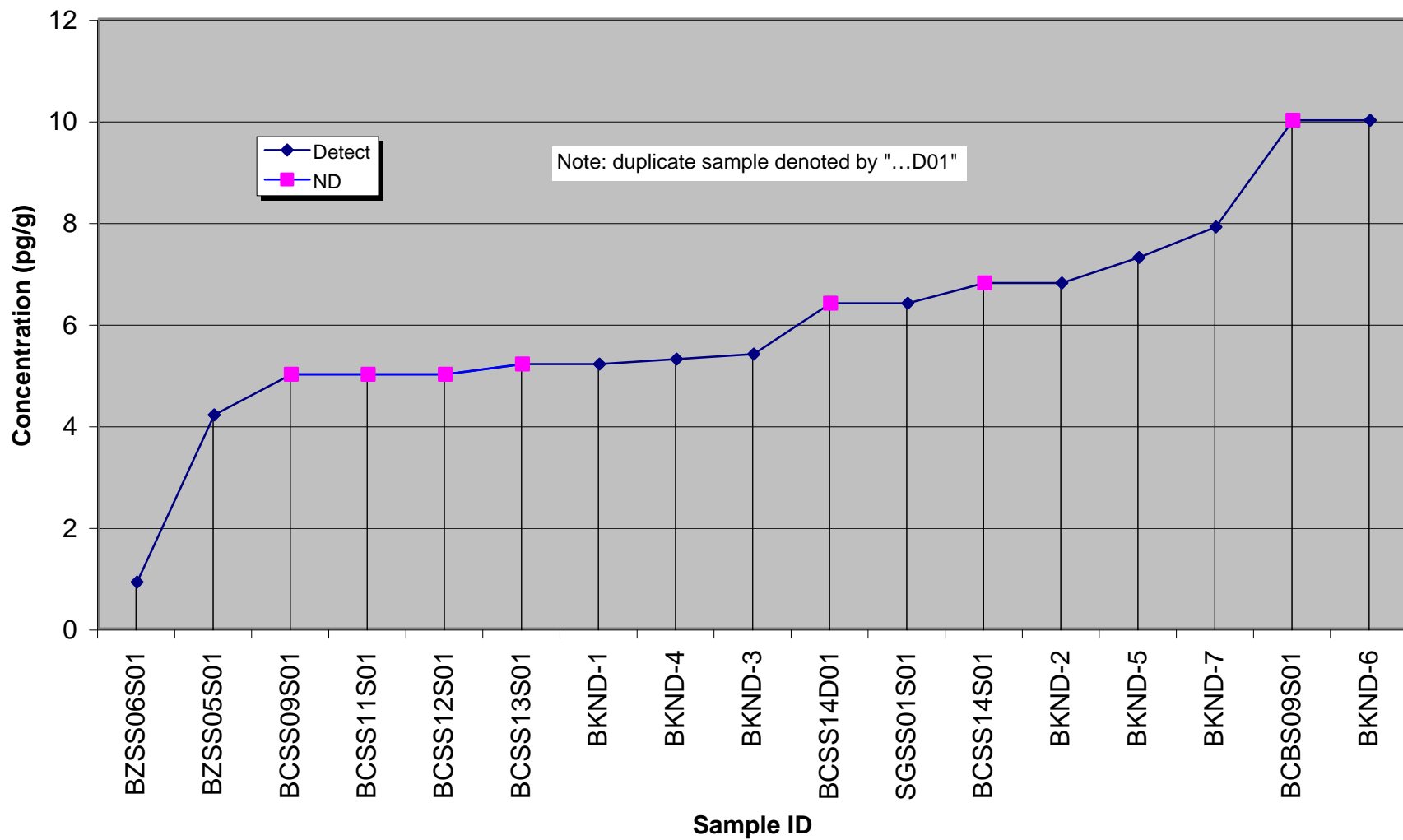
Rank Order Plot for Total PeCDD in Background Soil



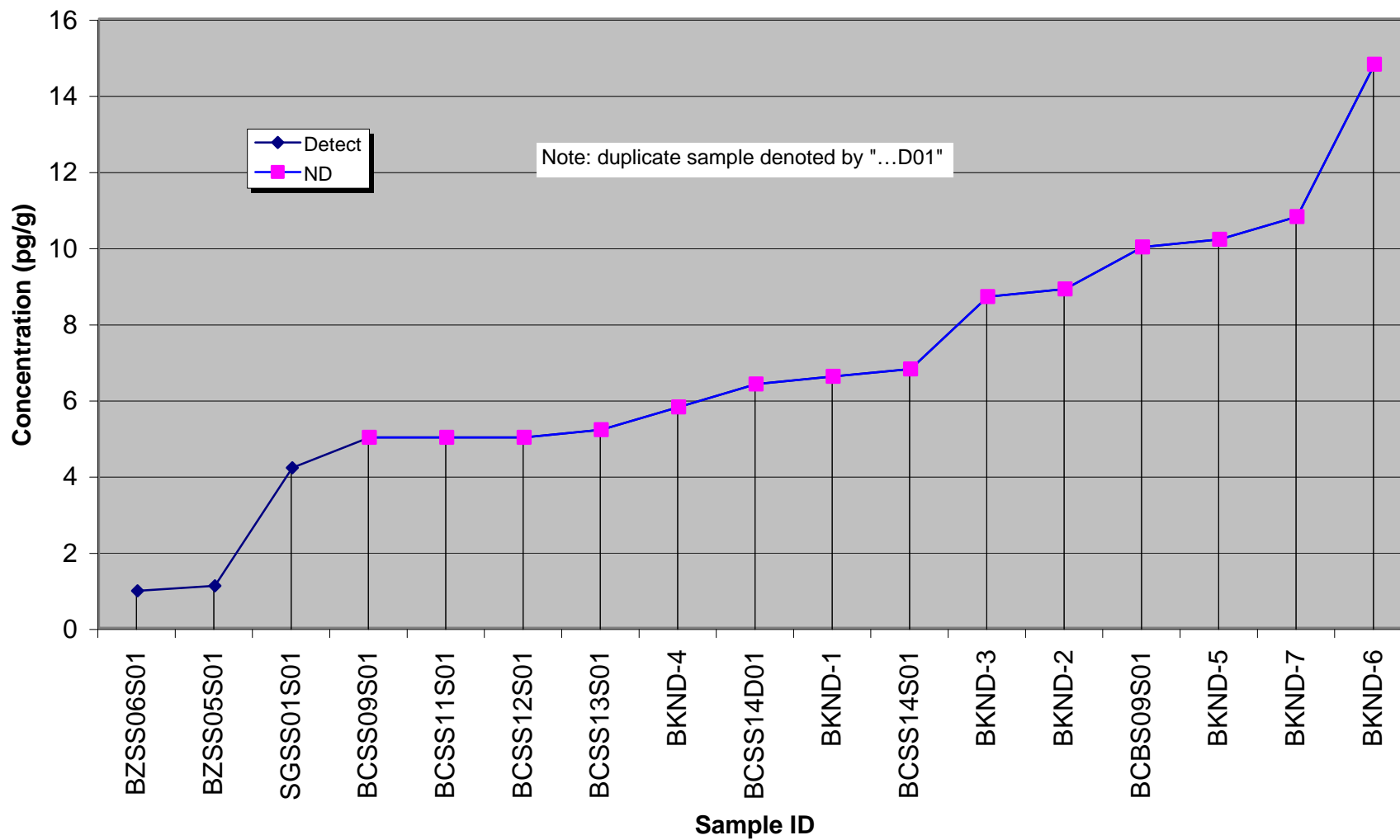
Rank Order Plot for Total PeCDF in Background Soil



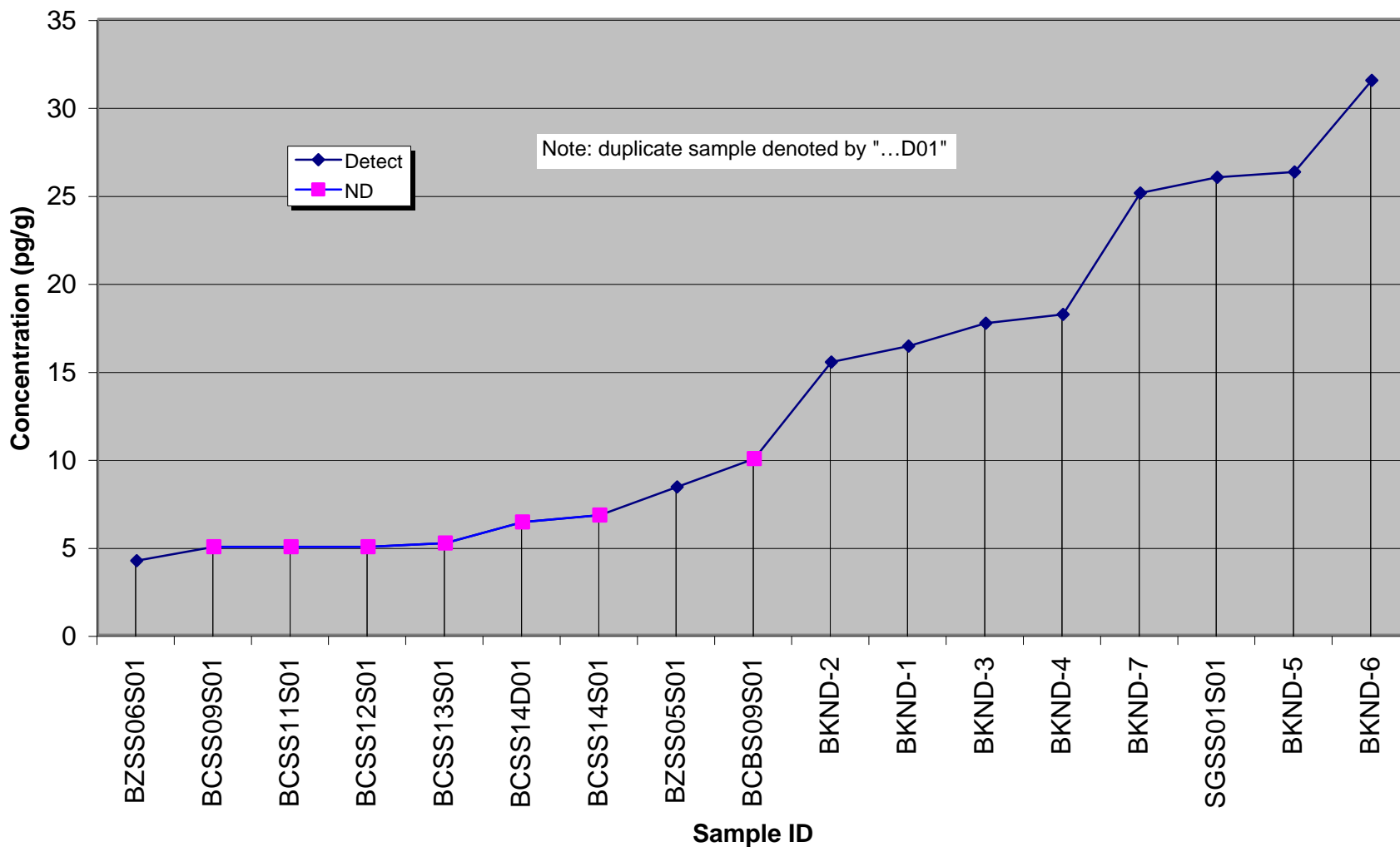
Rank Order Plot for Total HxCDD in Background Soil



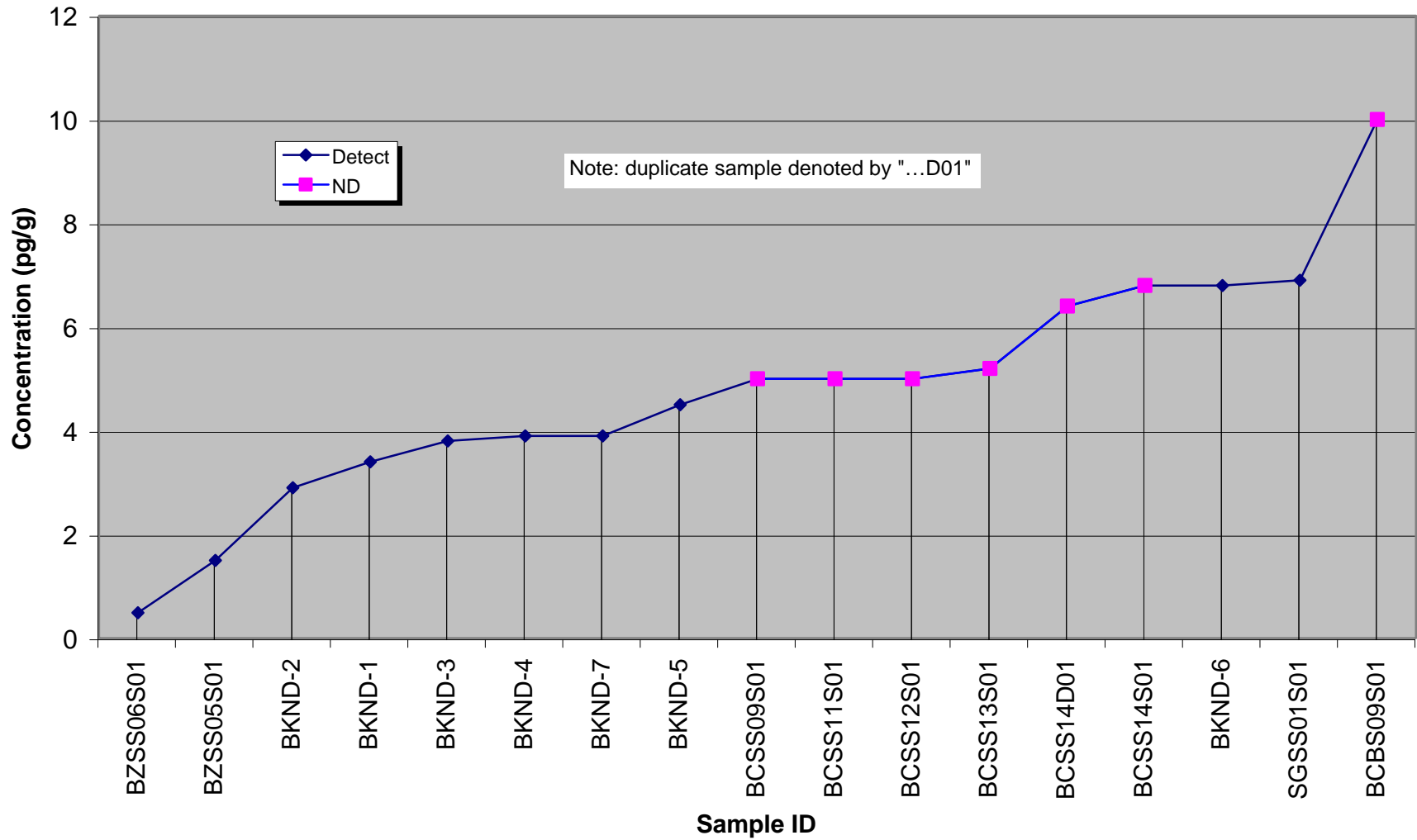
Rank Order Plot for Total HxCDF in Background Soil



Rank Order Plot for Total HpCDD in Background Soil

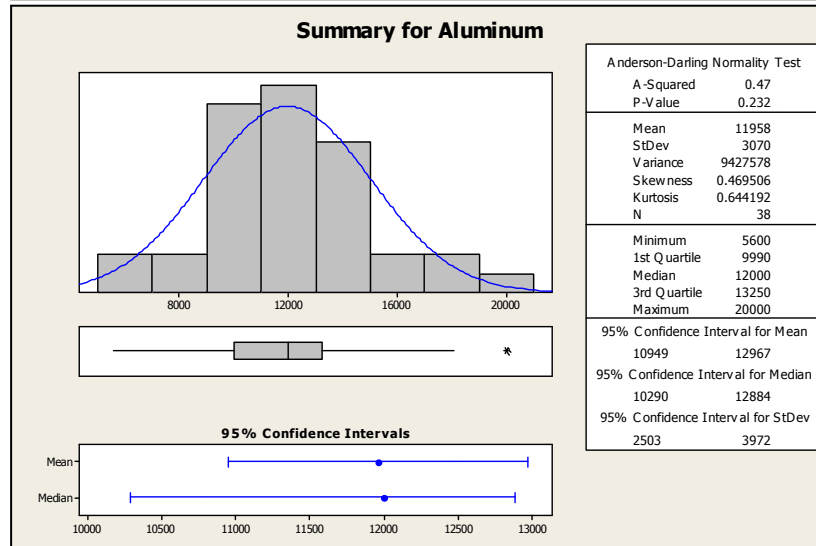
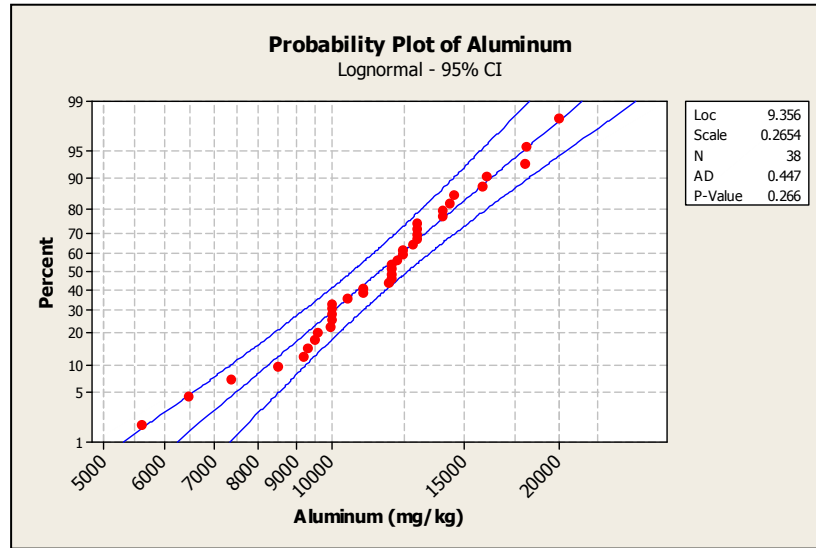
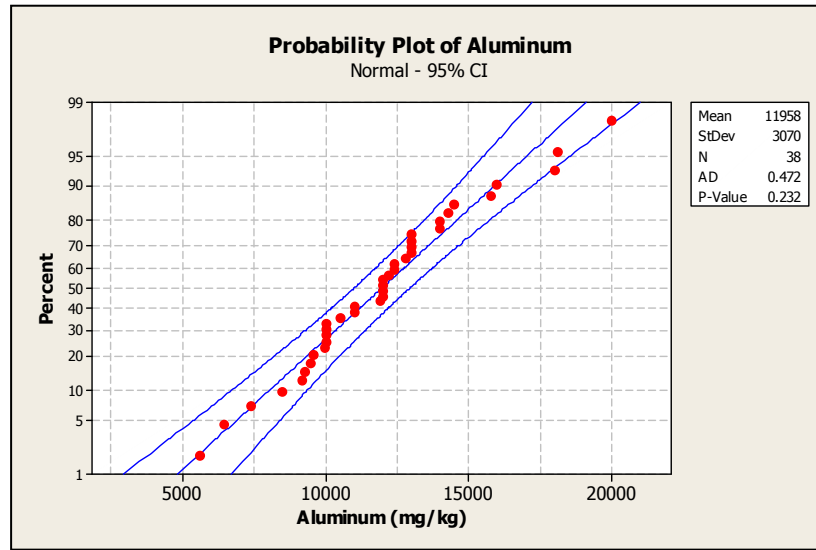


Rank Order Plot for Total HpCDF in Background Soil



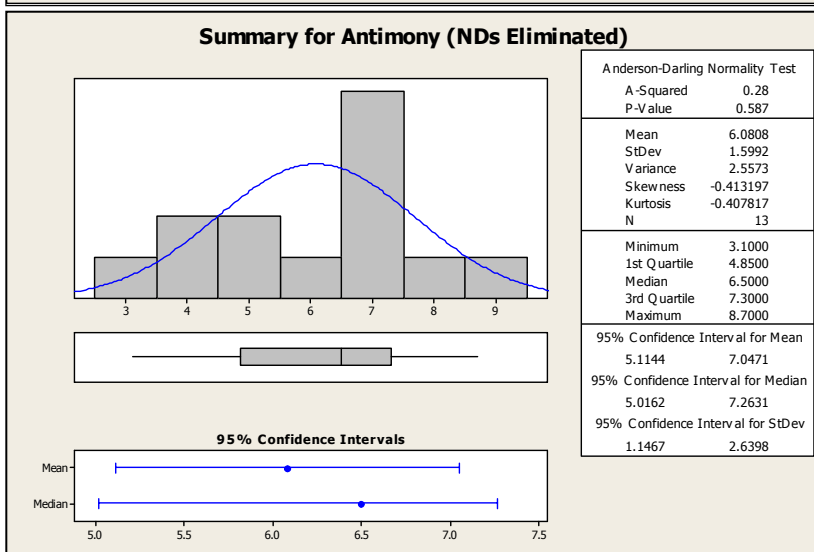
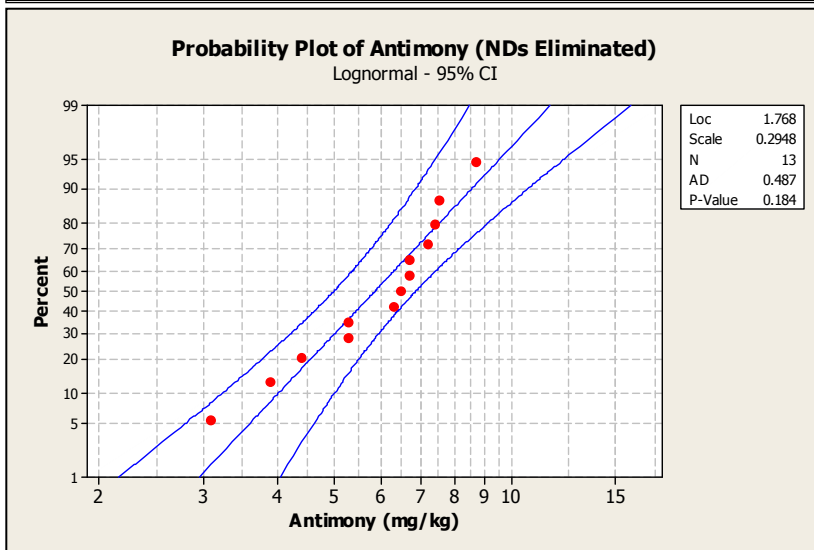
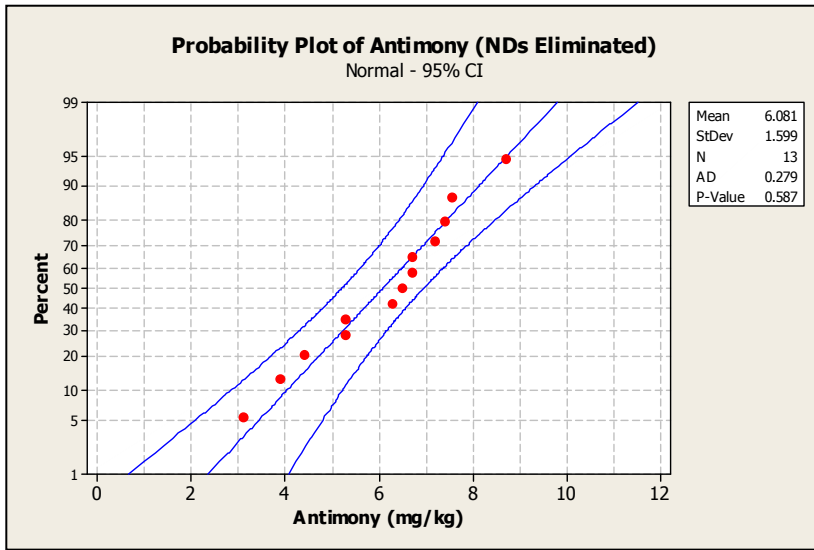
Aluminum

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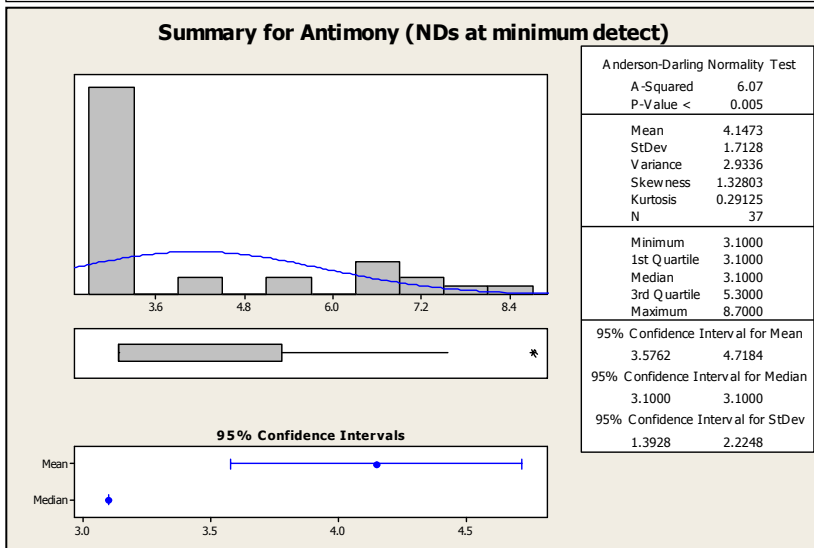
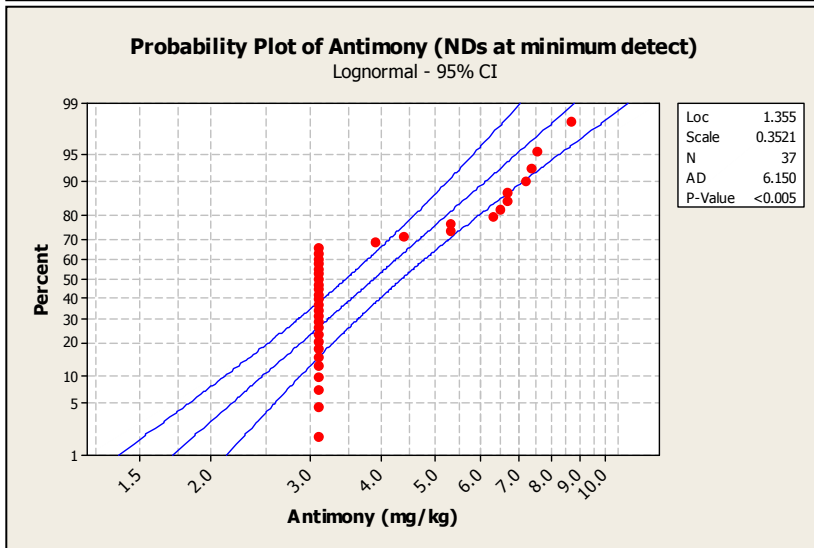
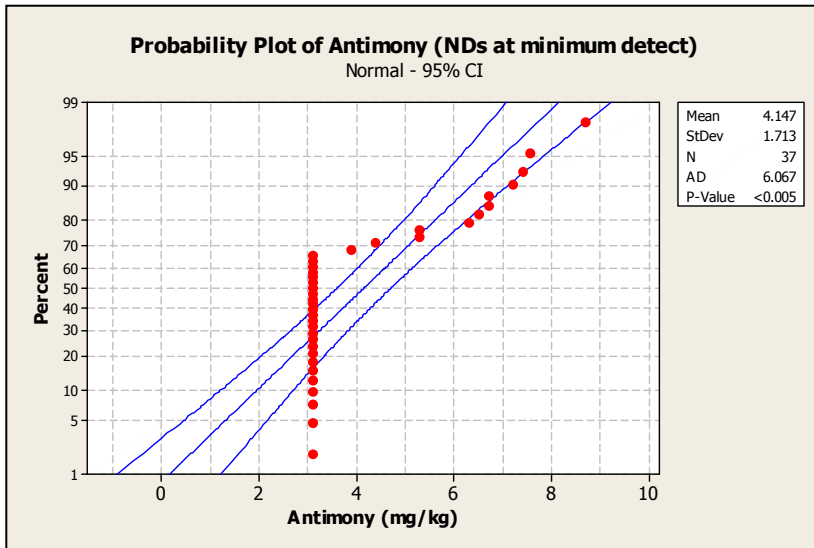
Antimony

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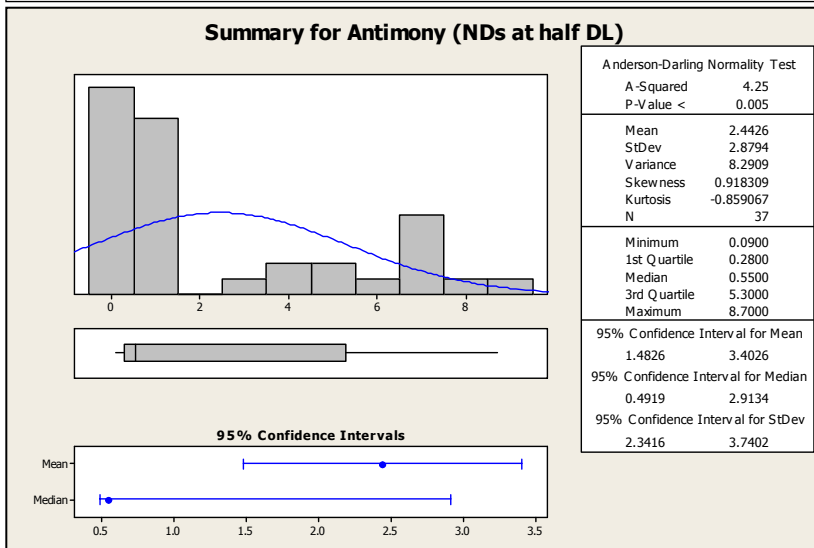
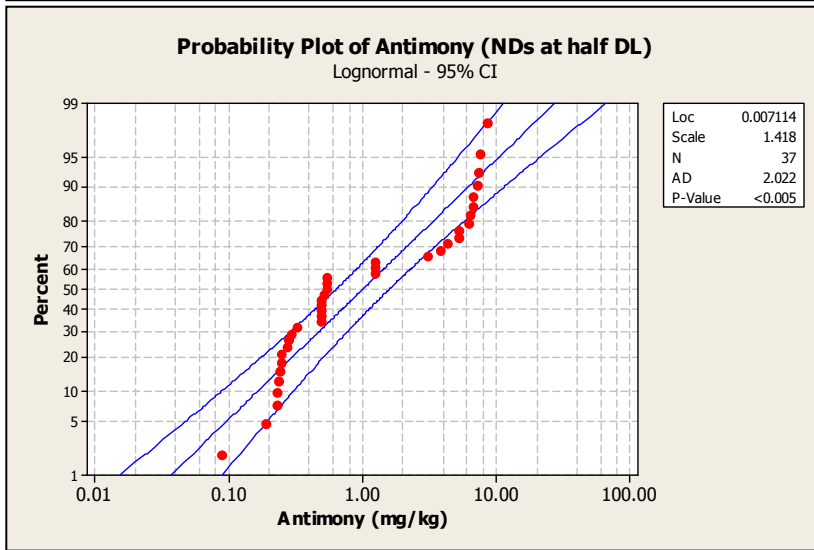
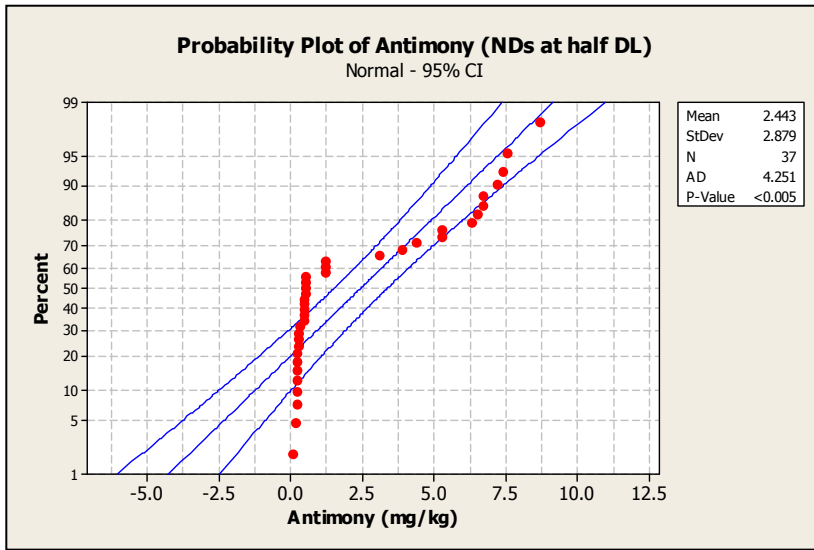
Antimony

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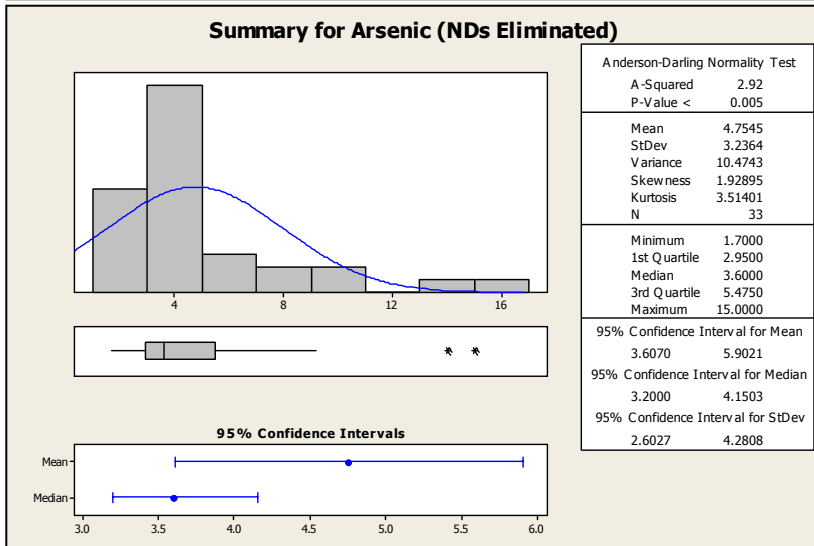
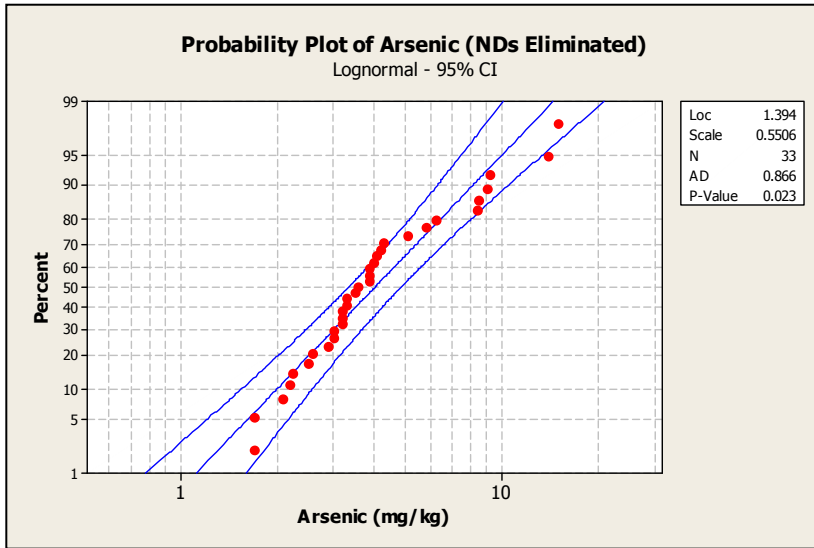
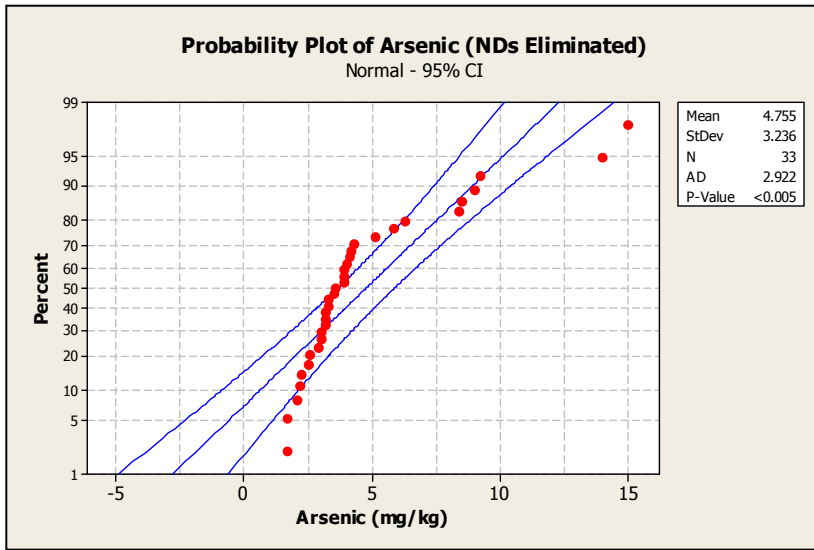
Antimony

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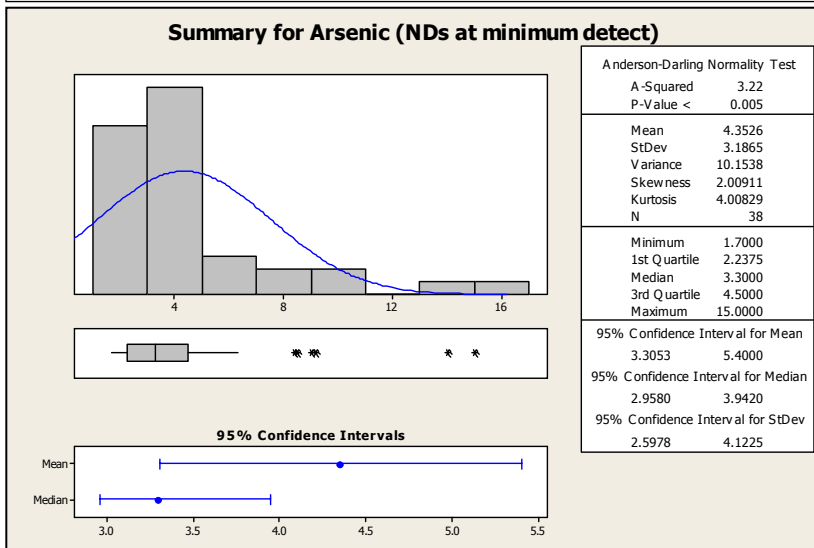
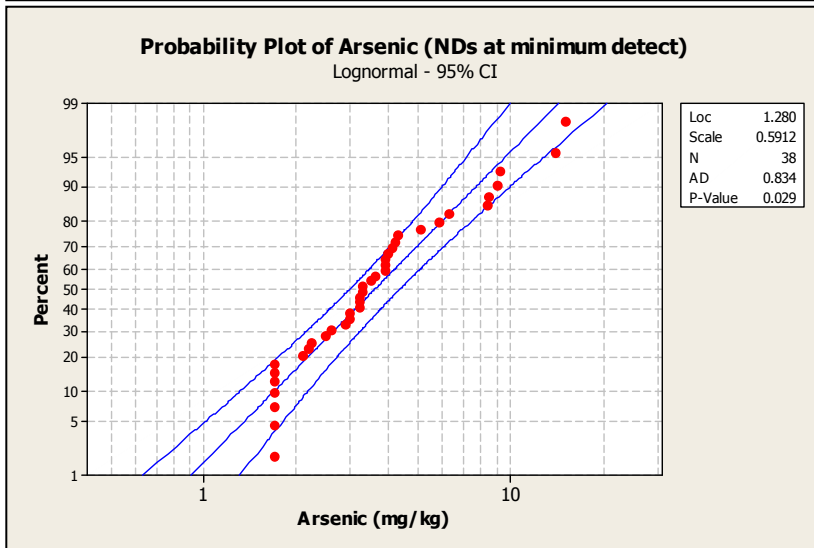
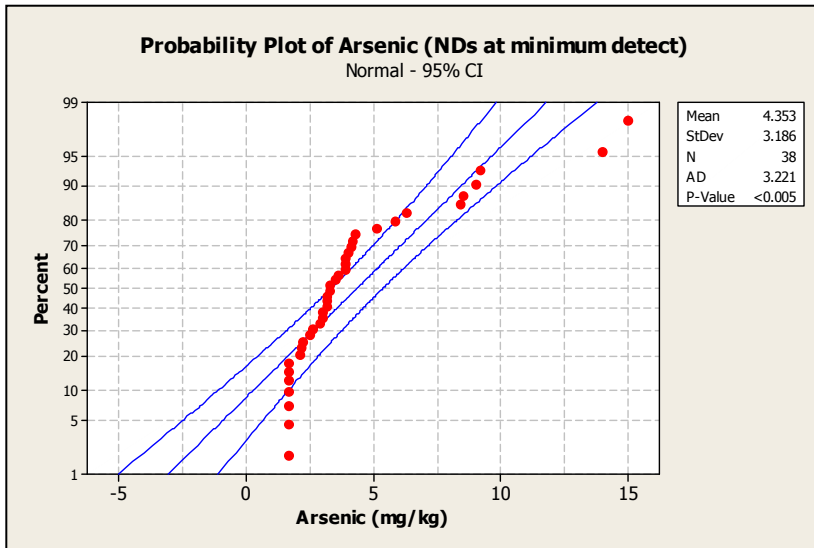
Arsenic

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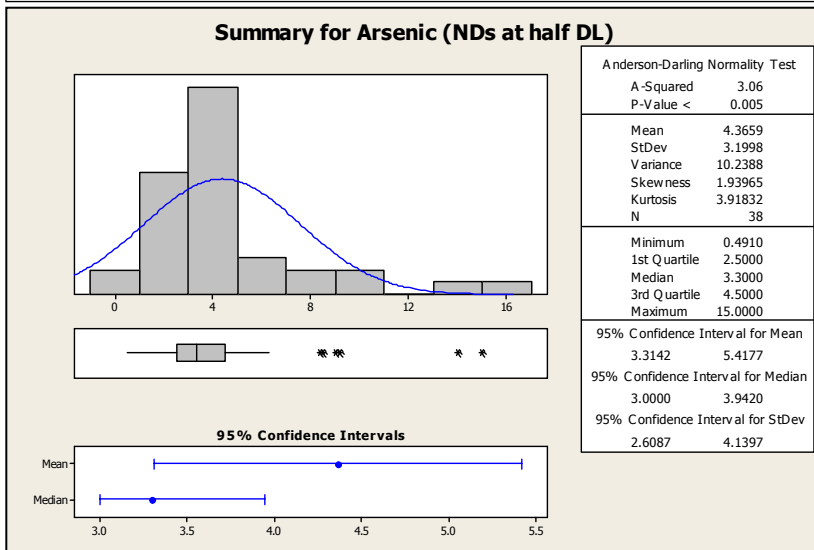
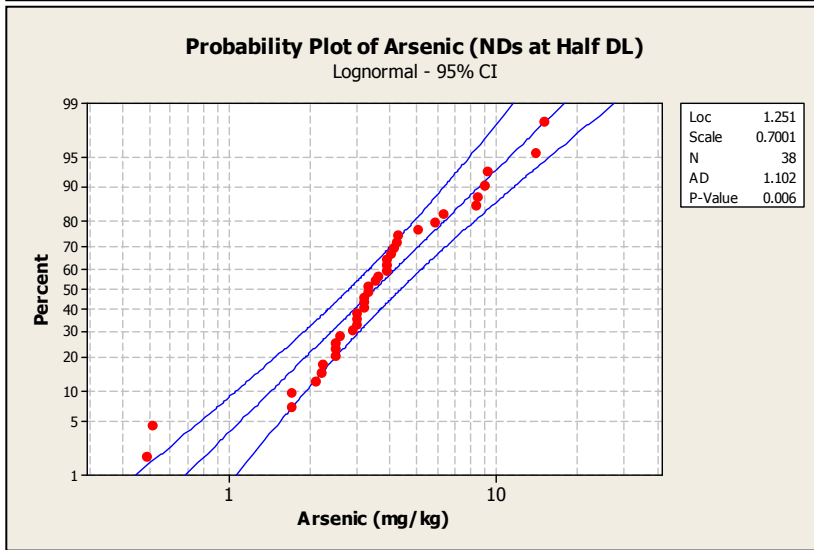
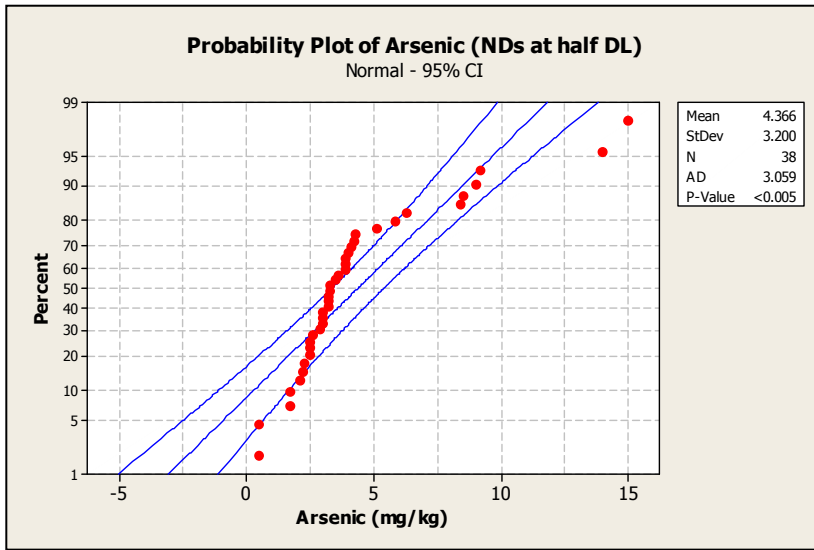
Arsenic

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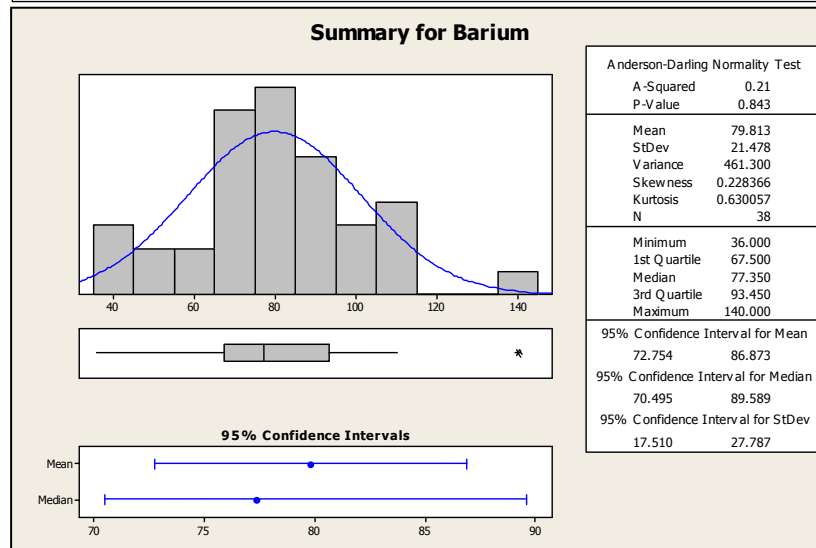
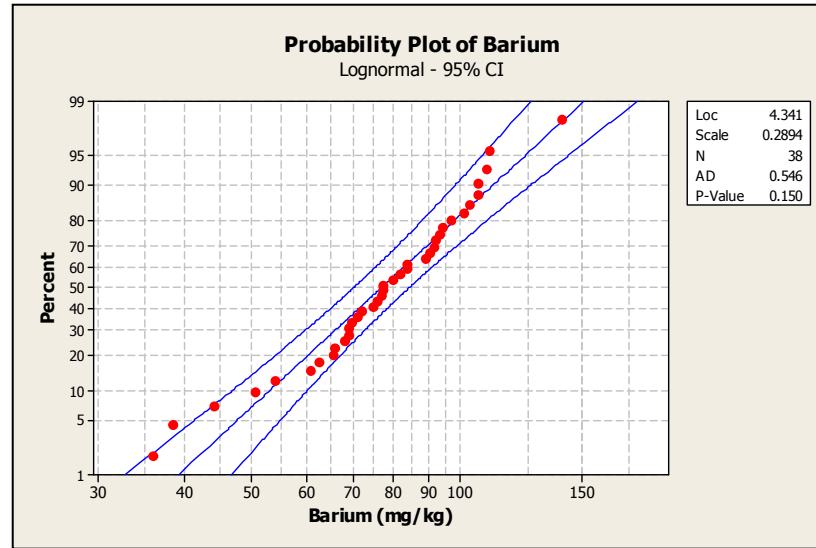
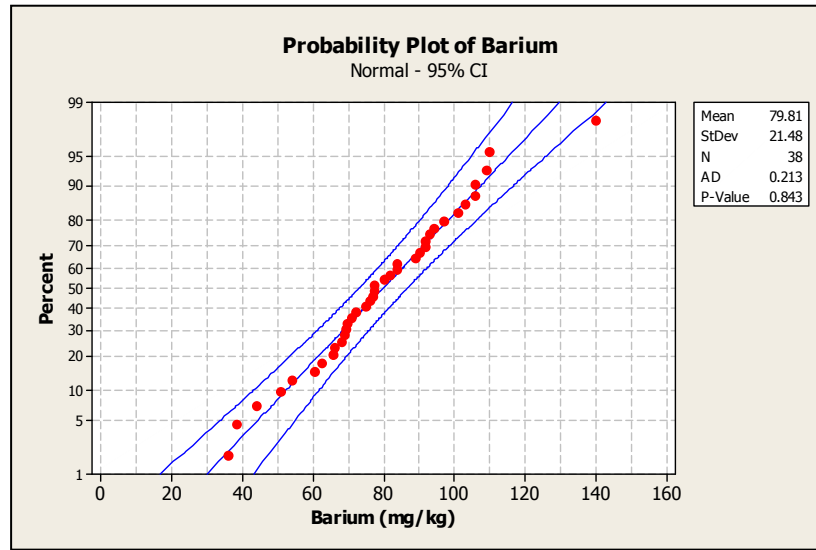
Arsenic

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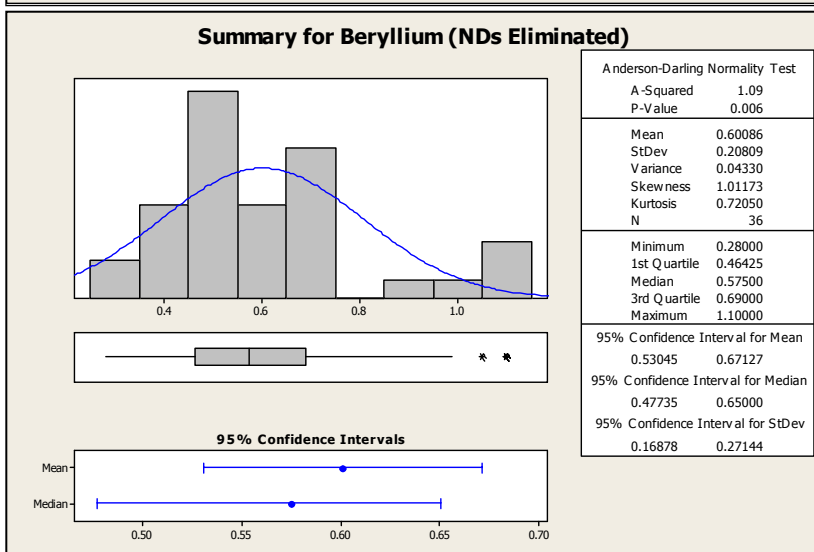
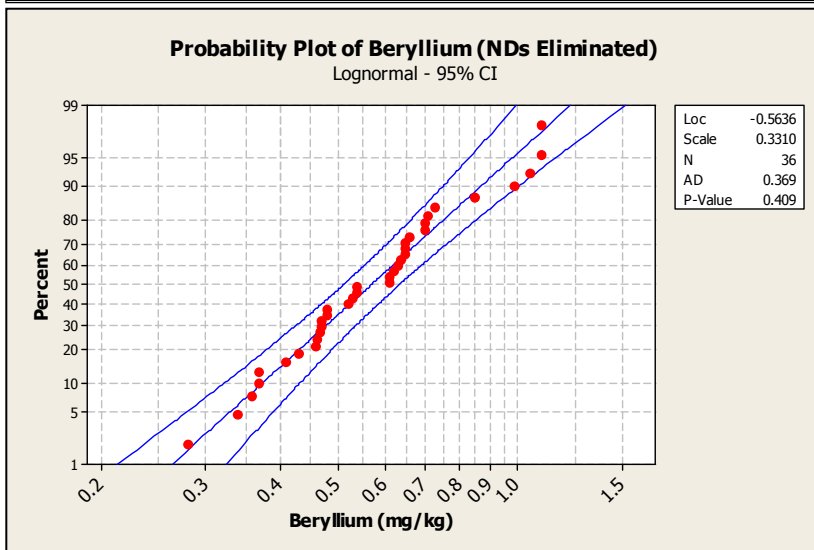
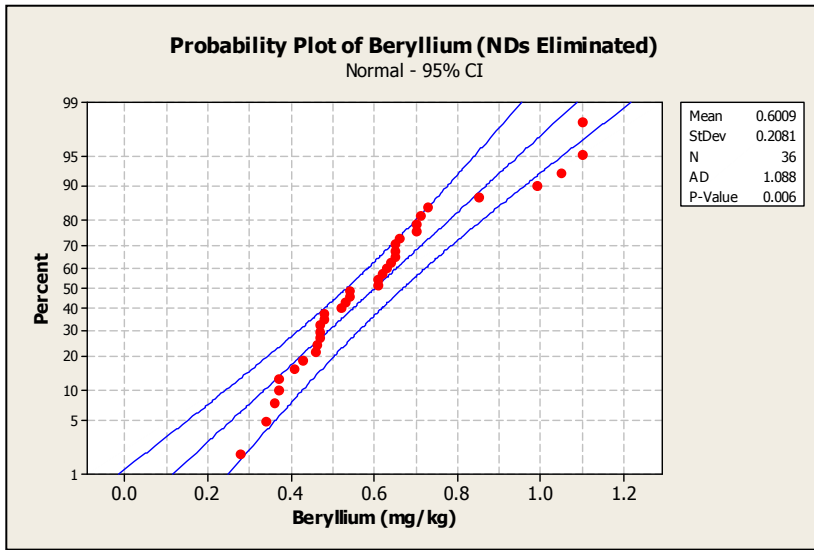
Barium

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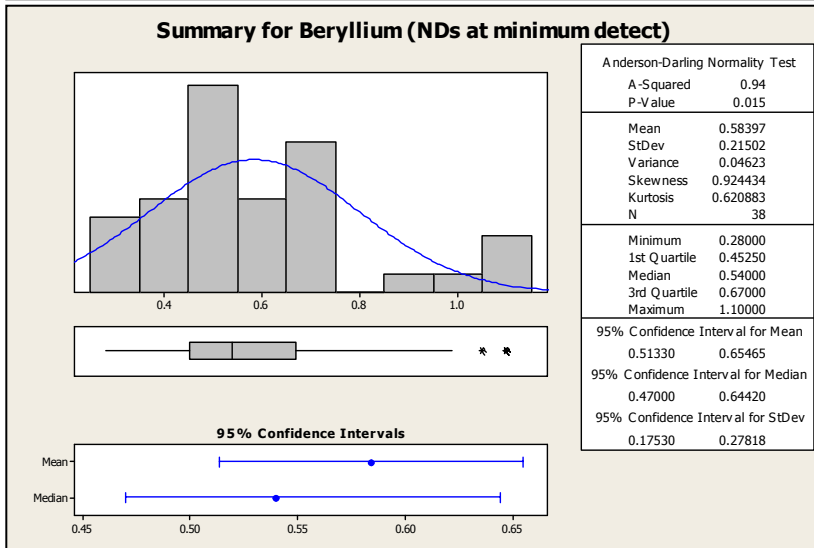
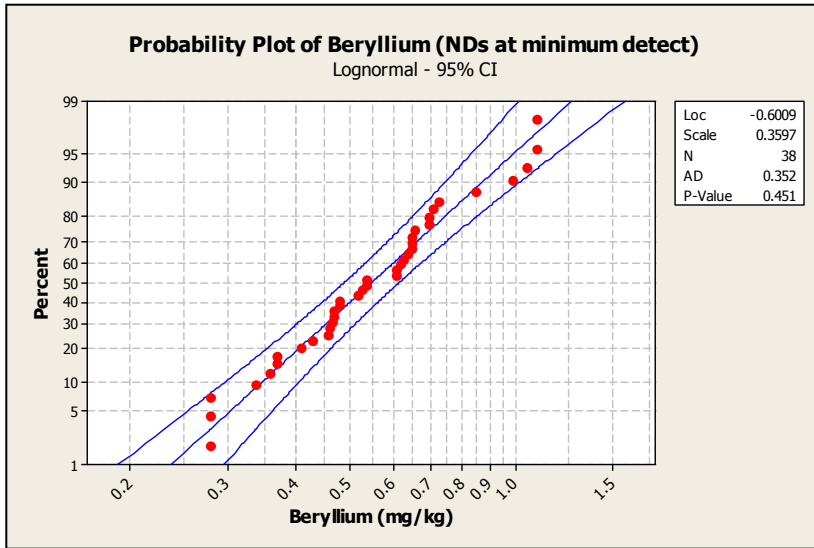
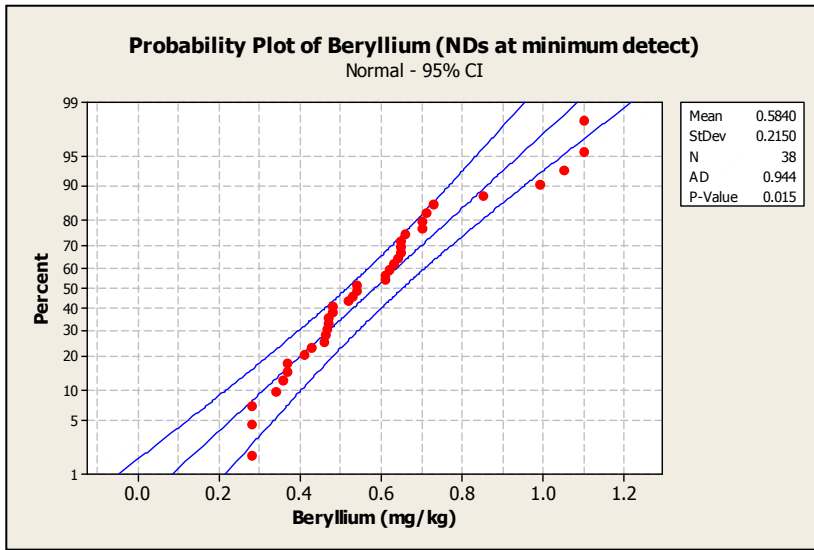
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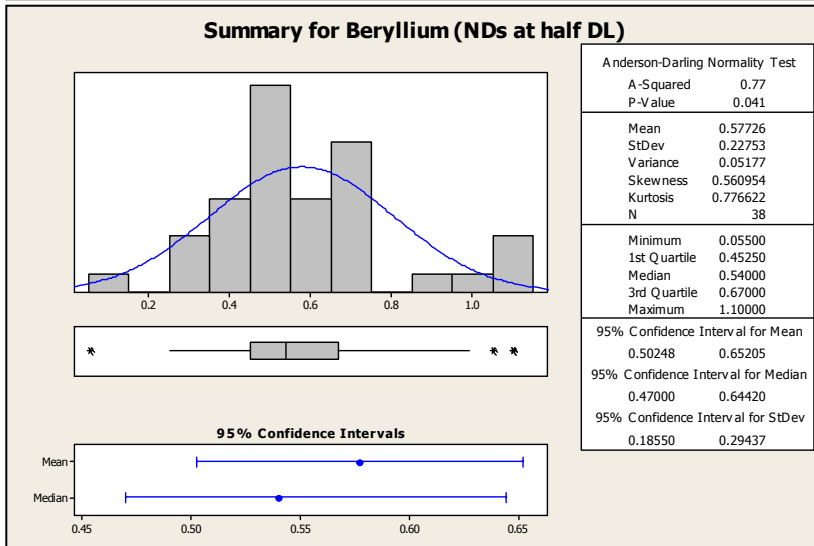
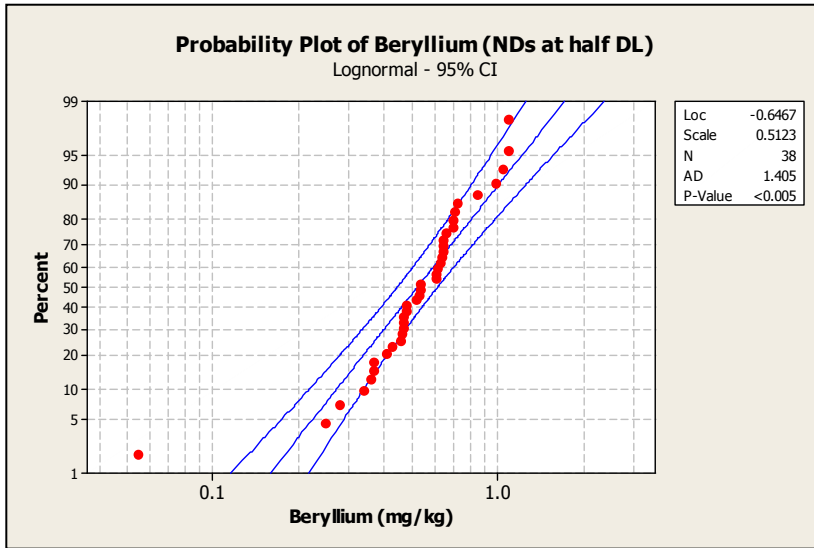
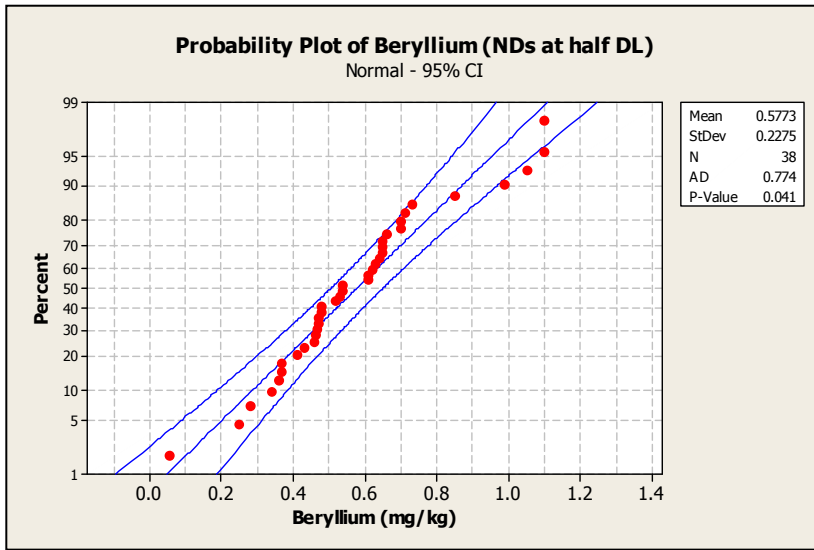
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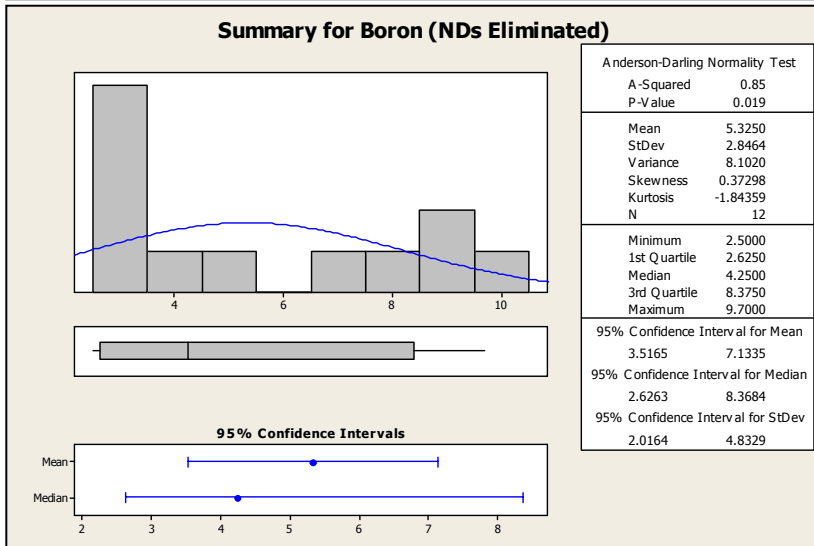
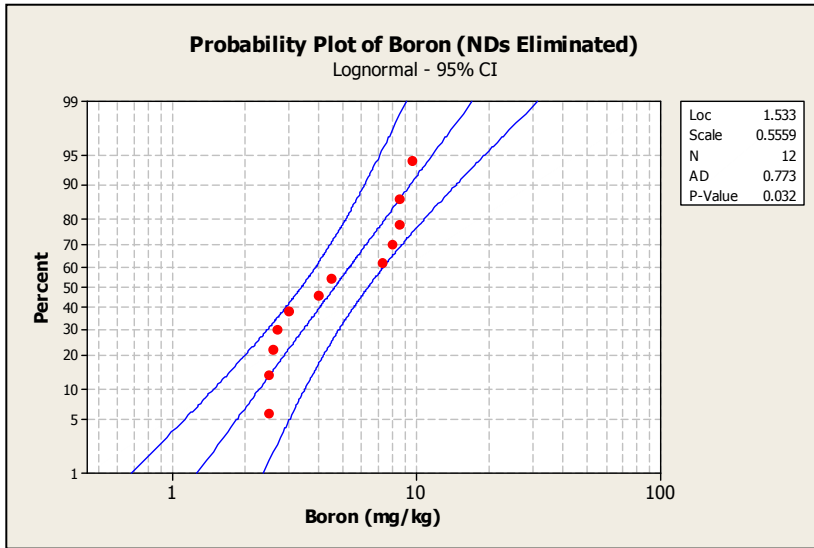
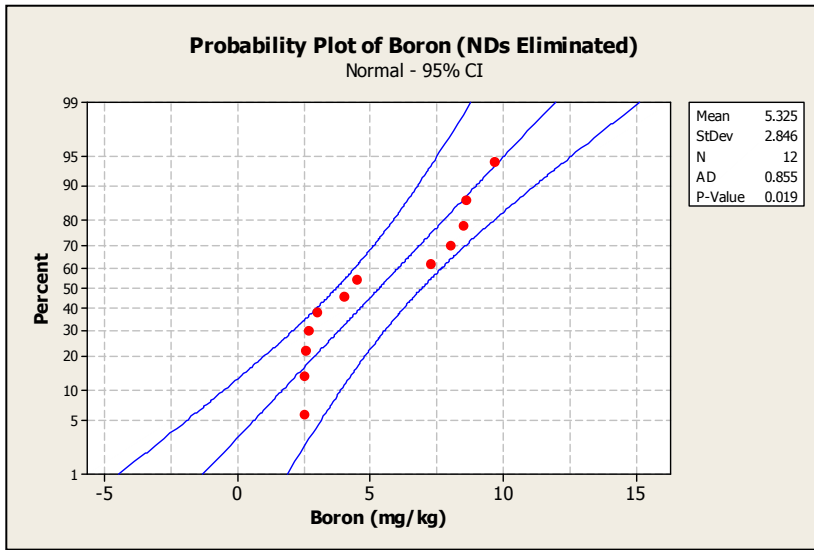
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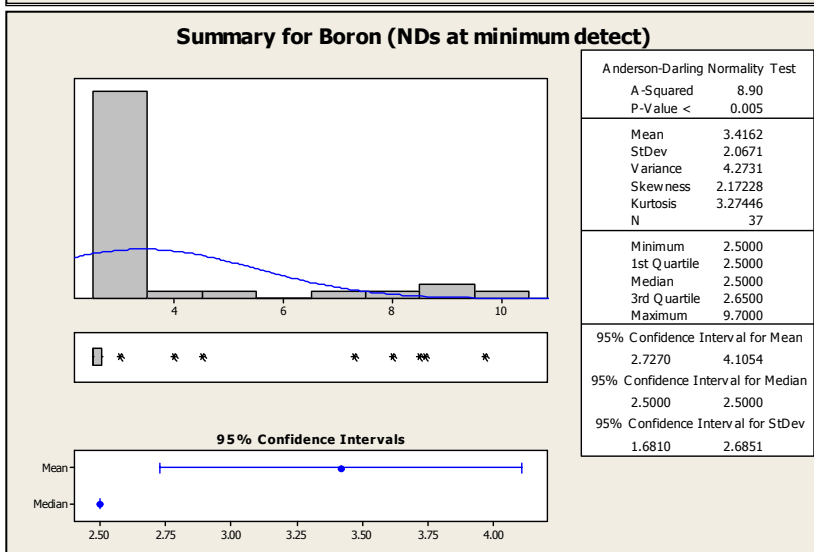
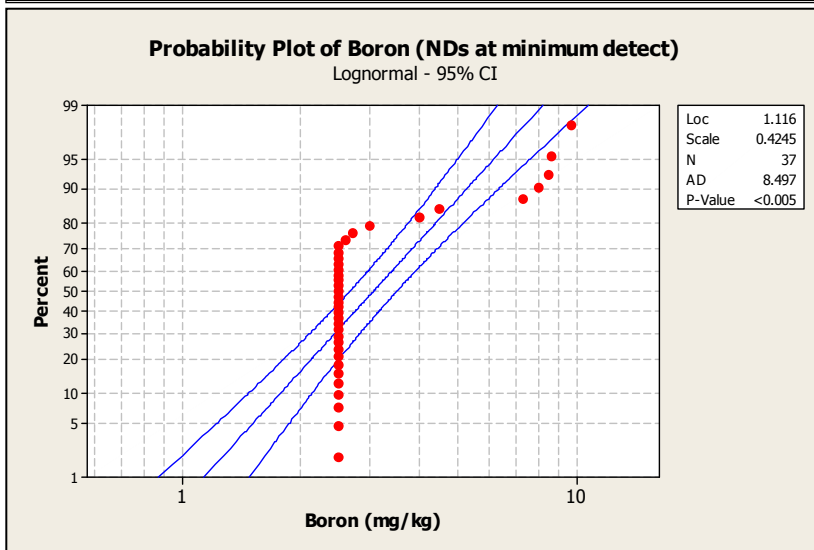
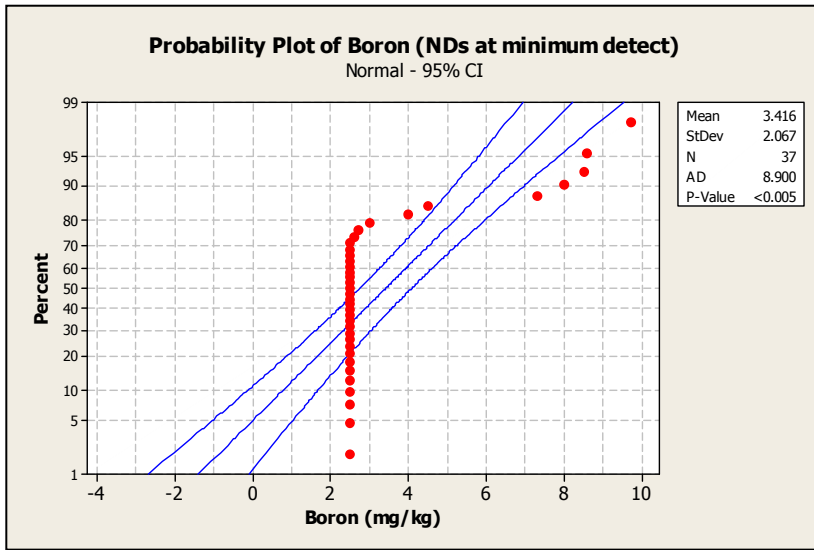
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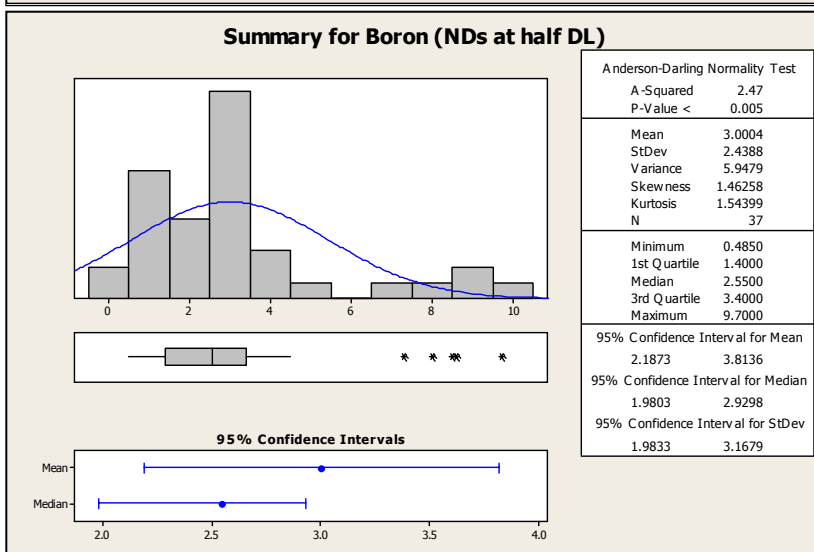
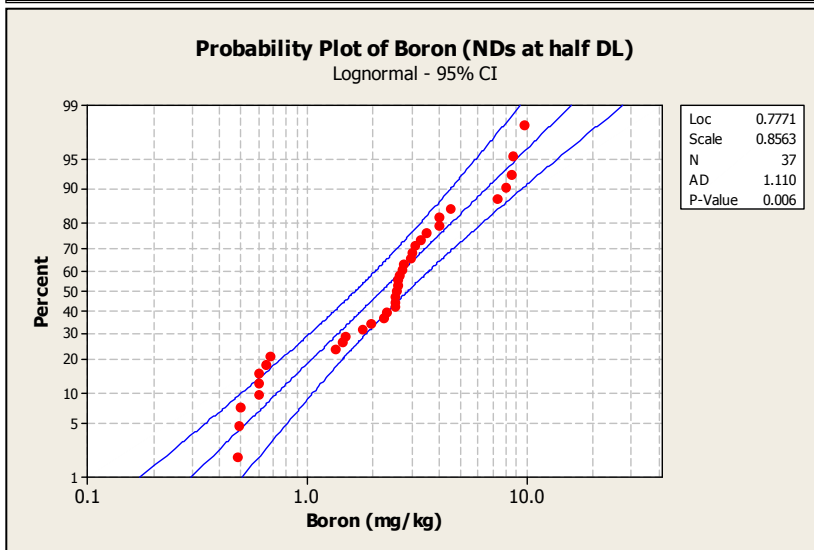
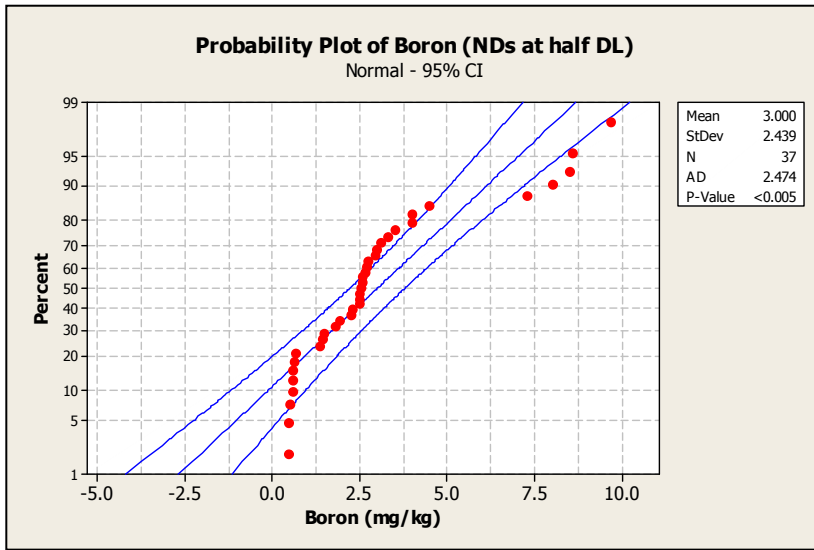
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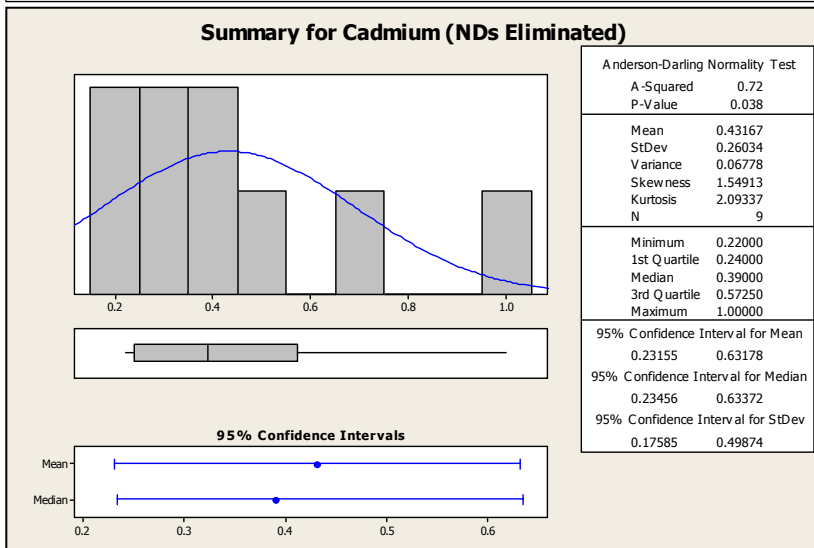
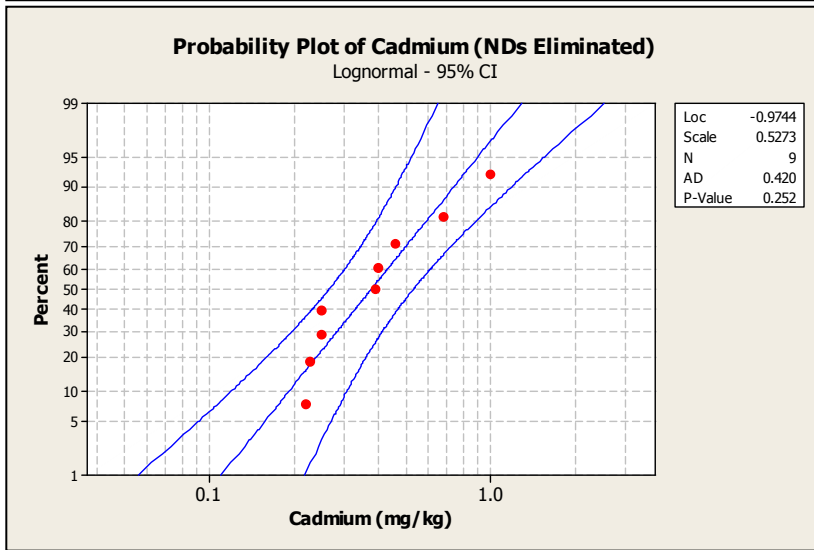
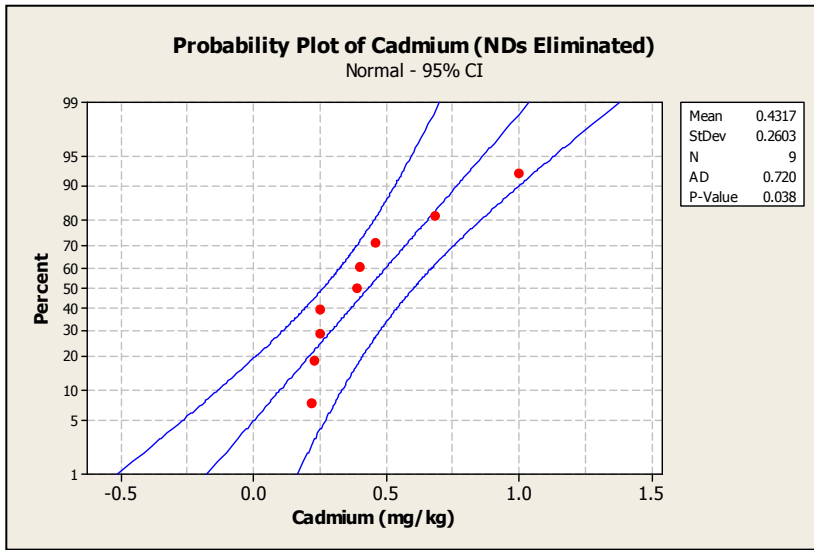
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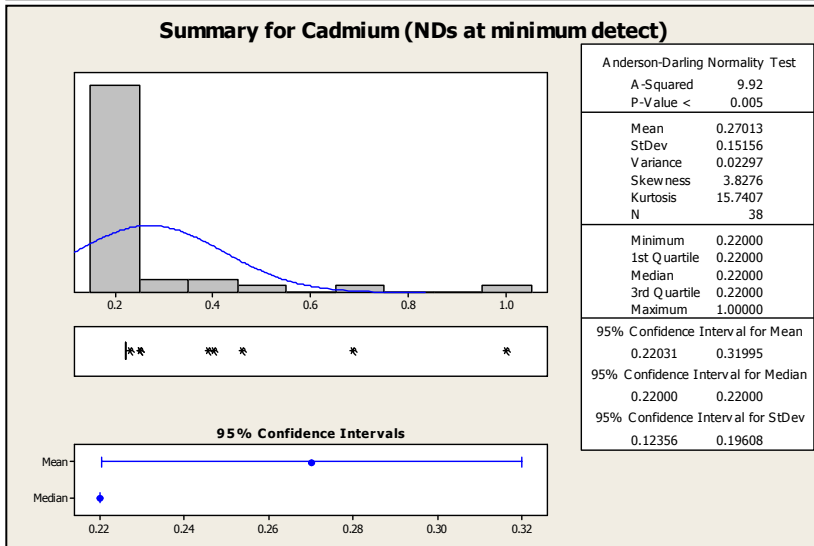
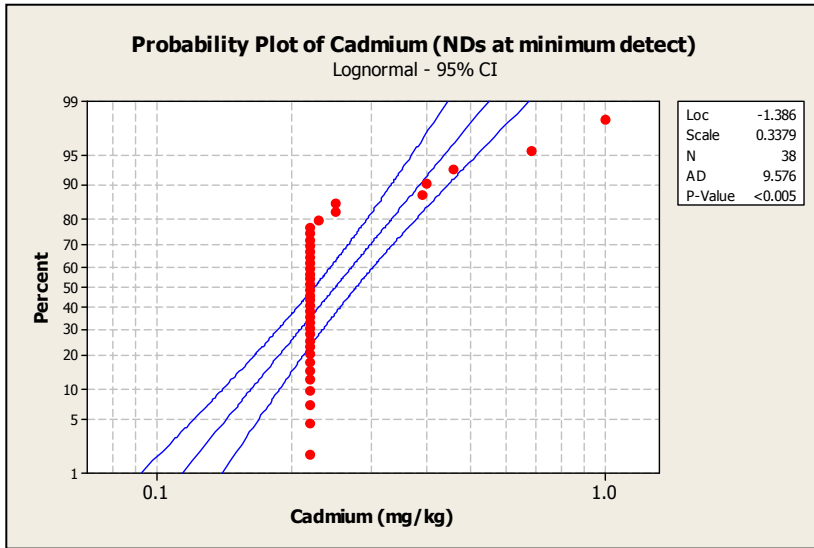
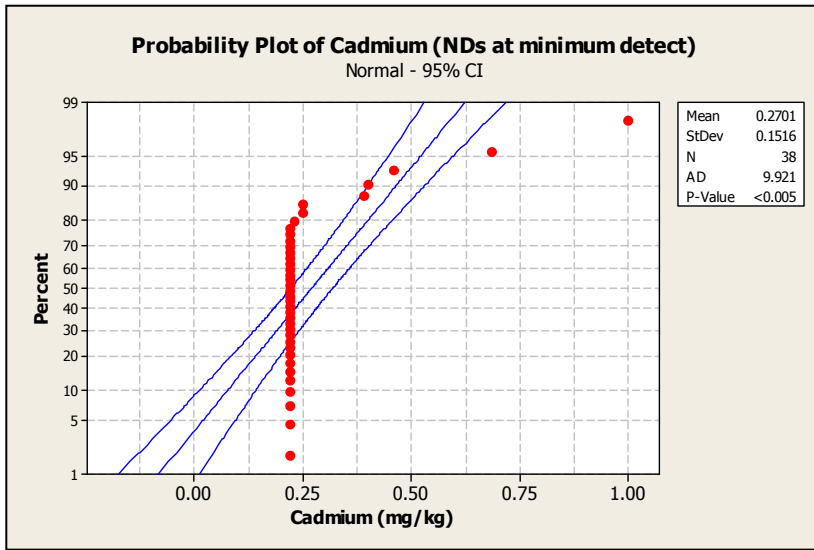
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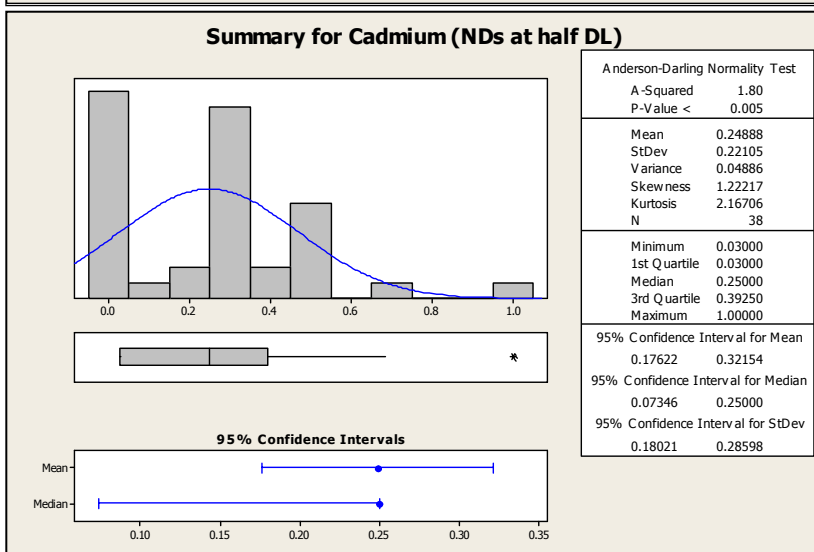
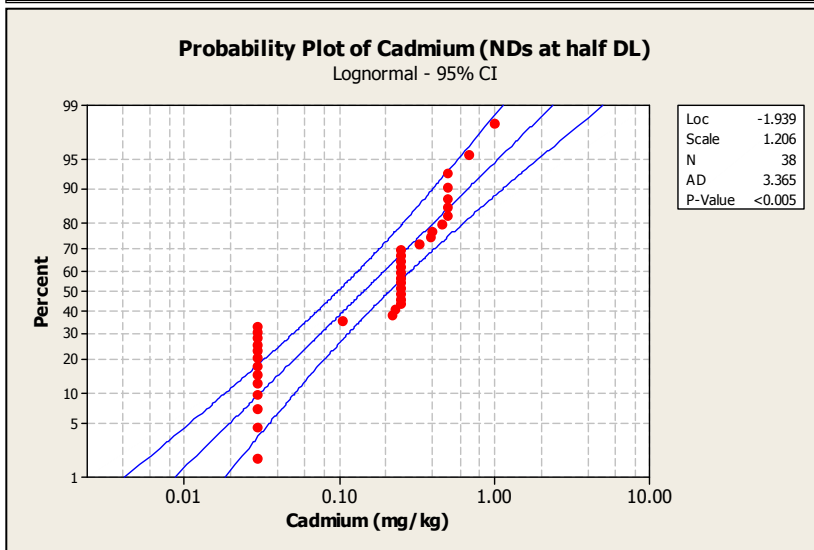
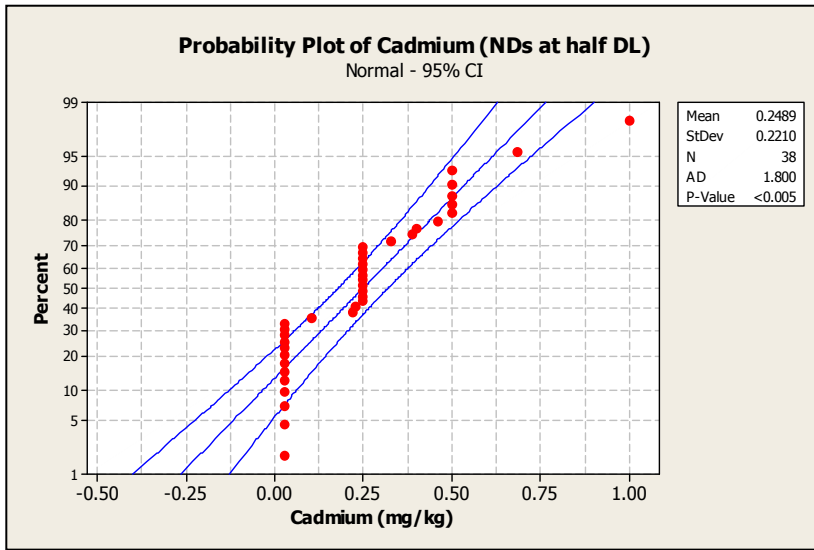
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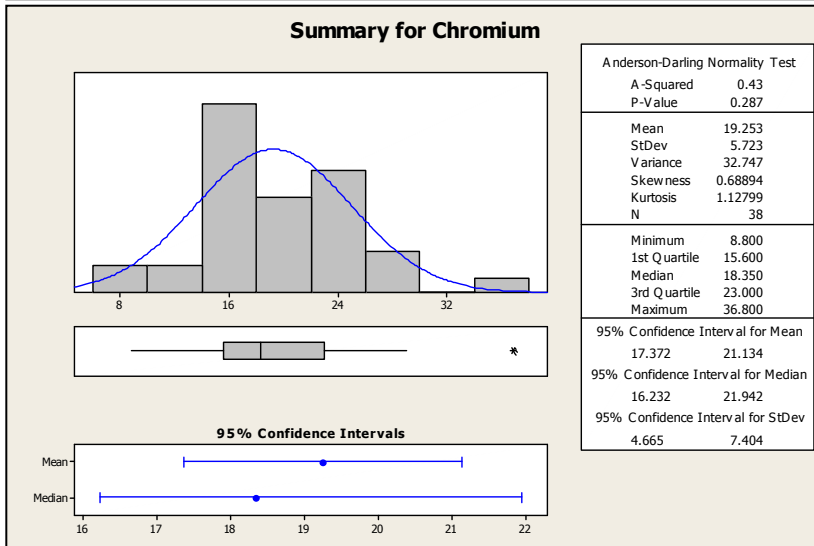
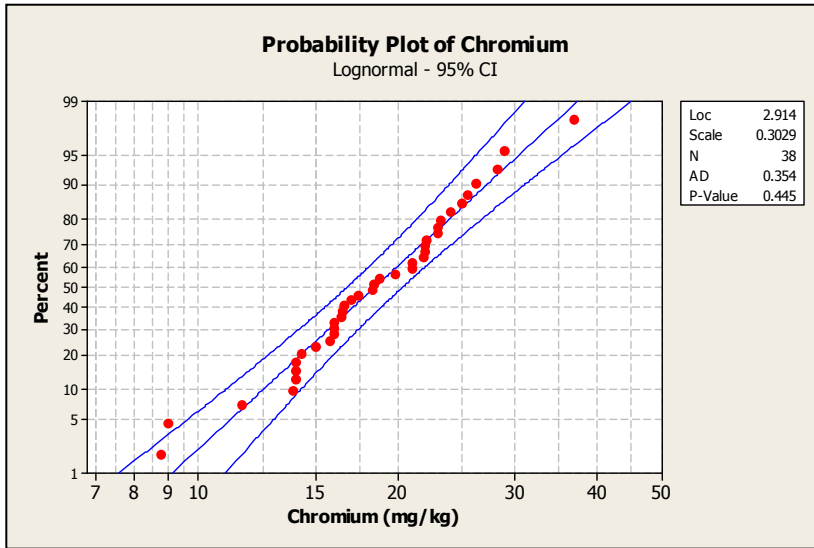
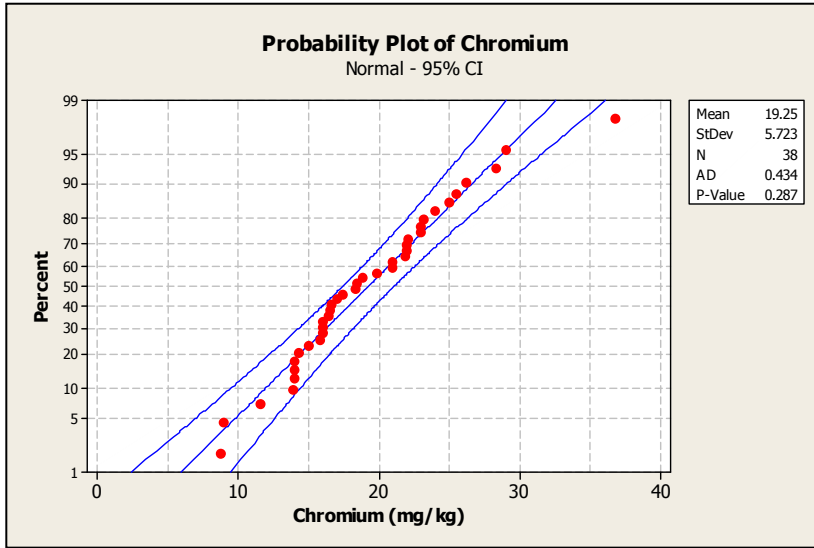
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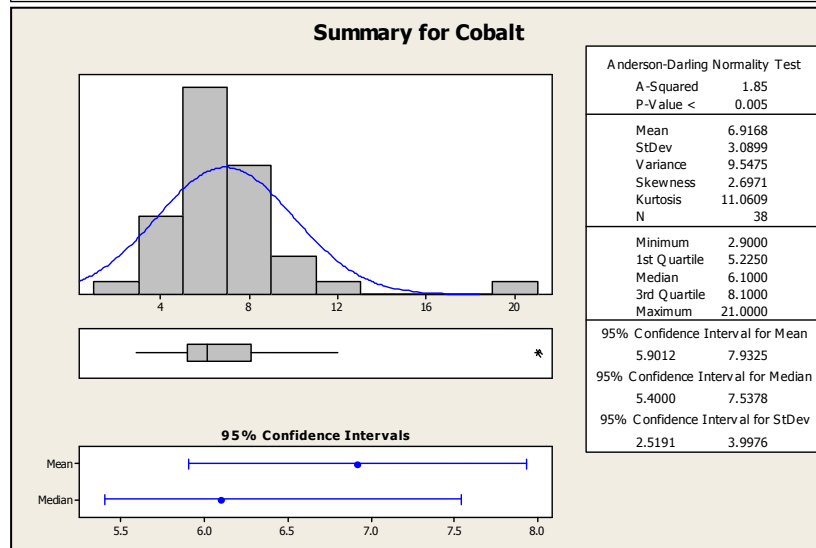
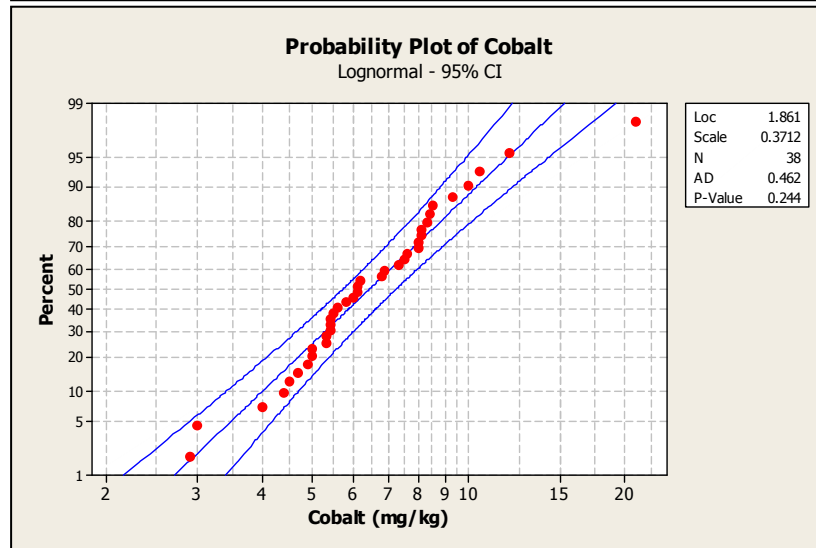
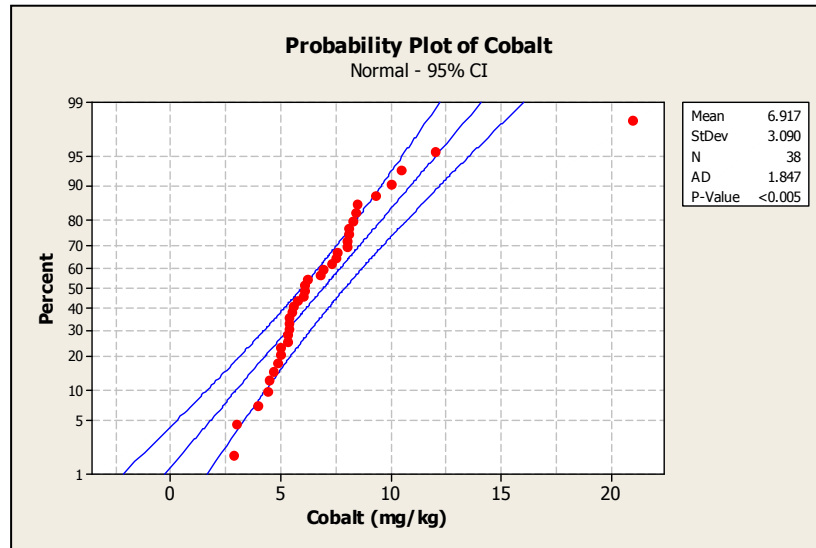
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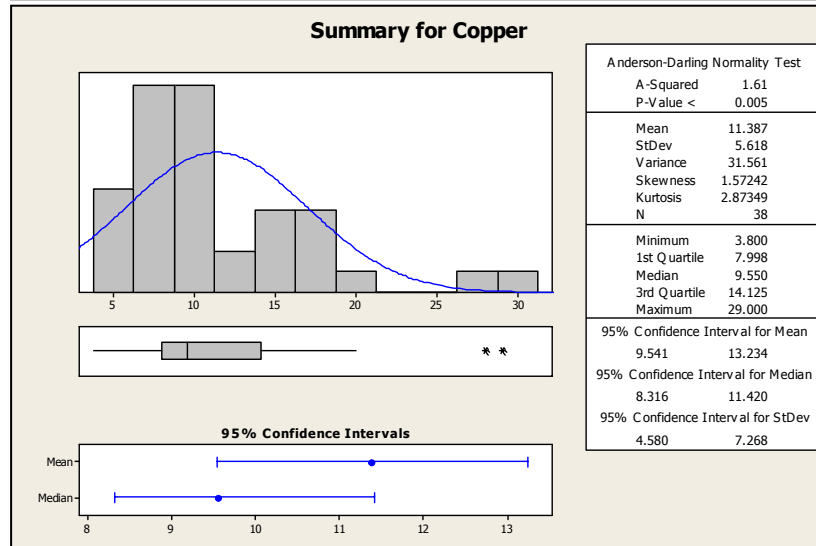
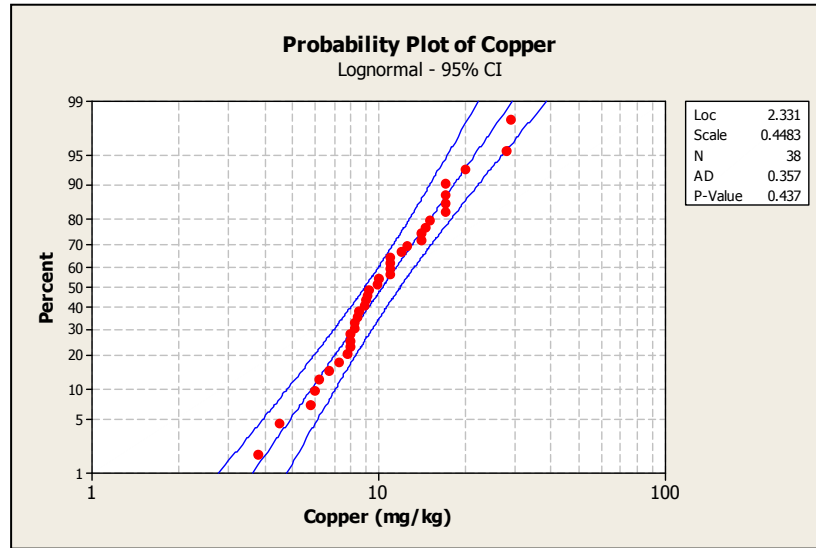
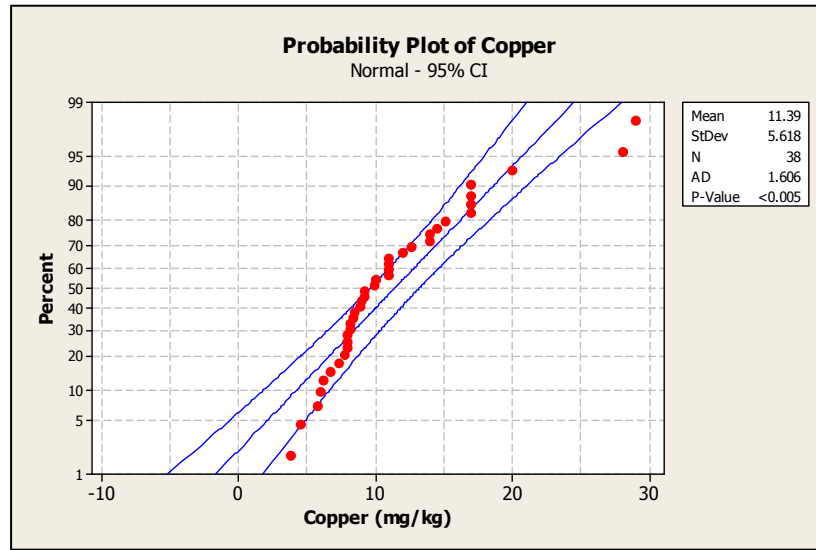
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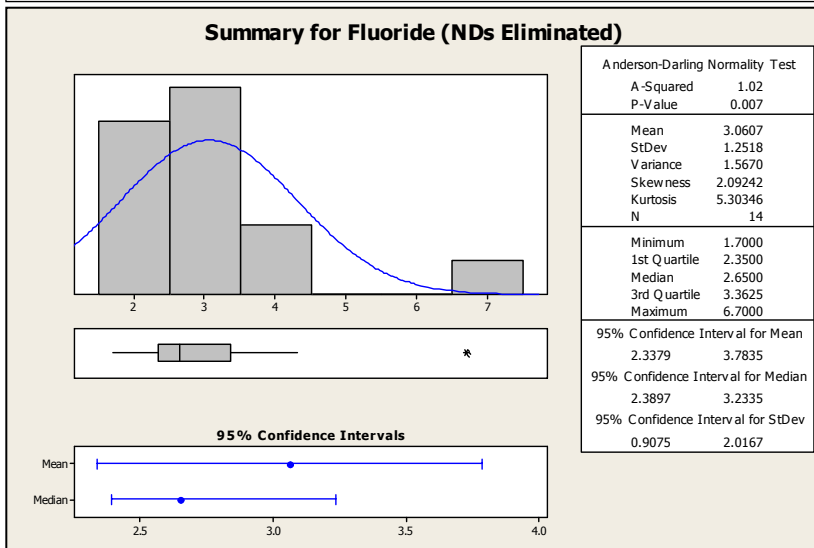
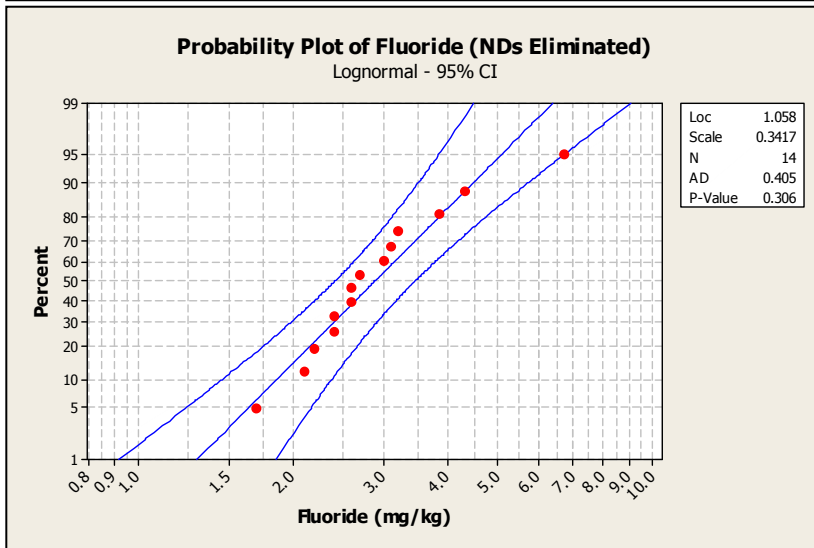
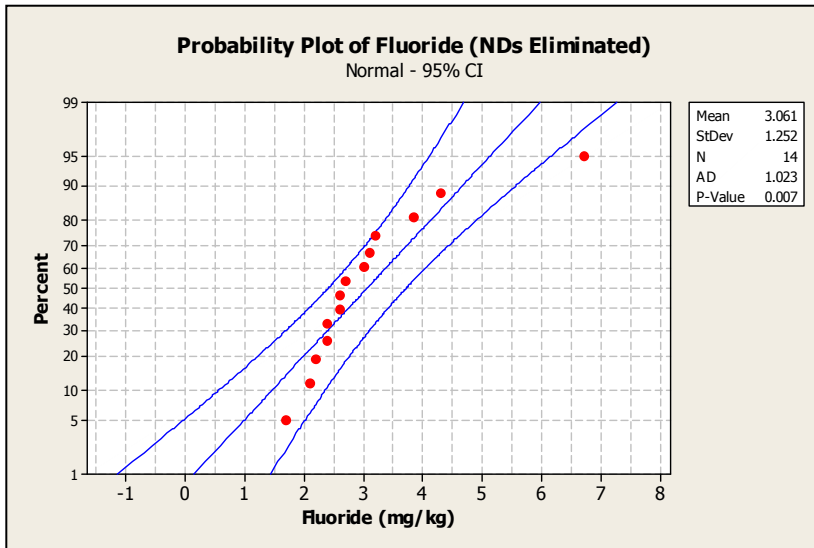
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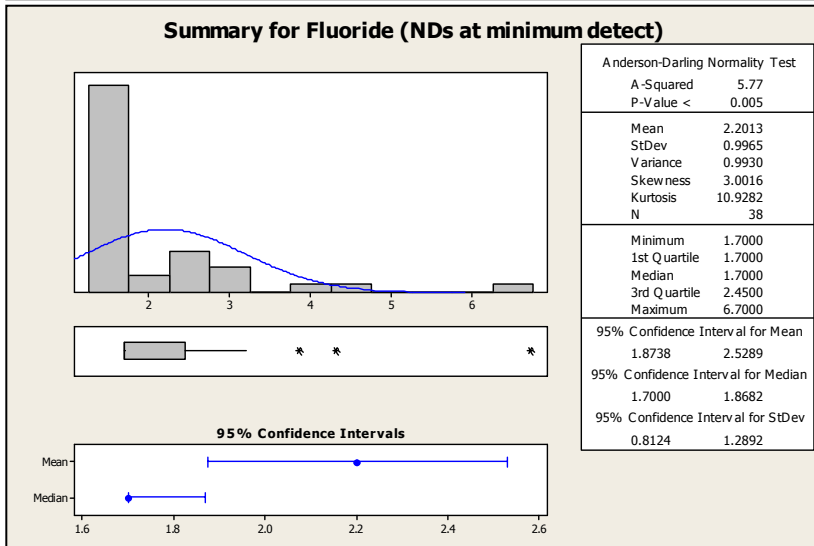
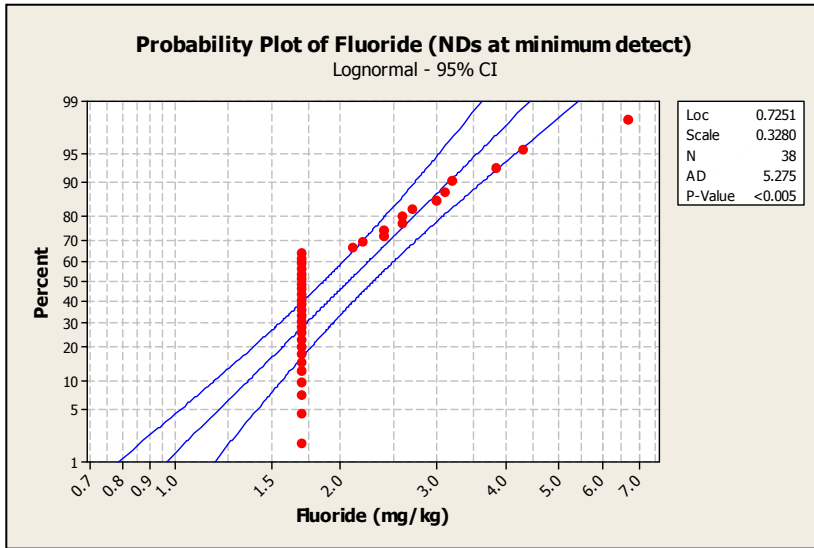
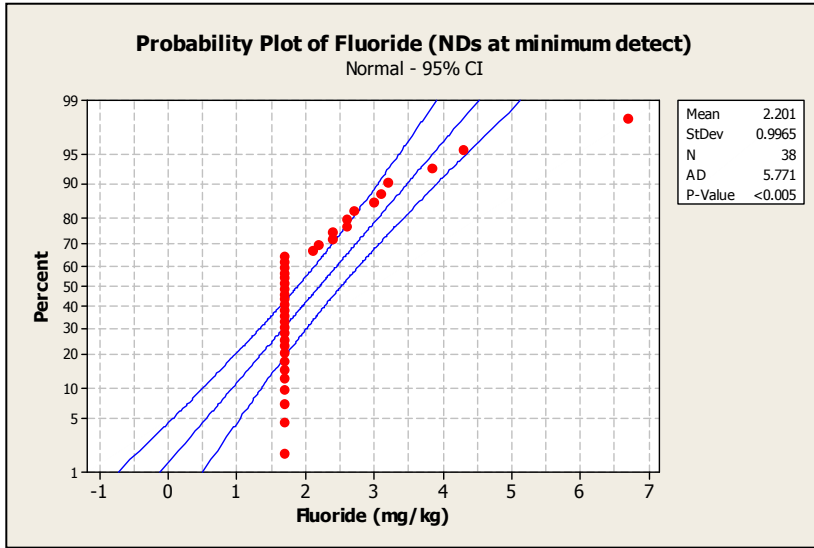
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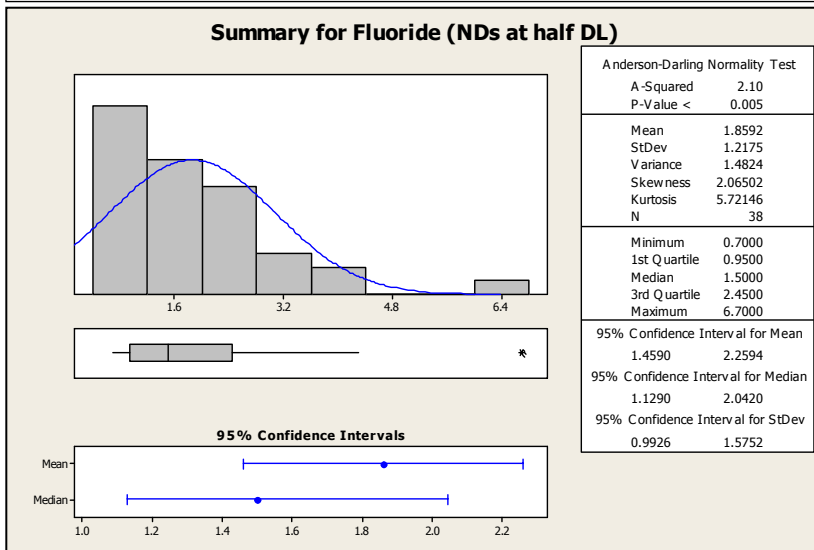
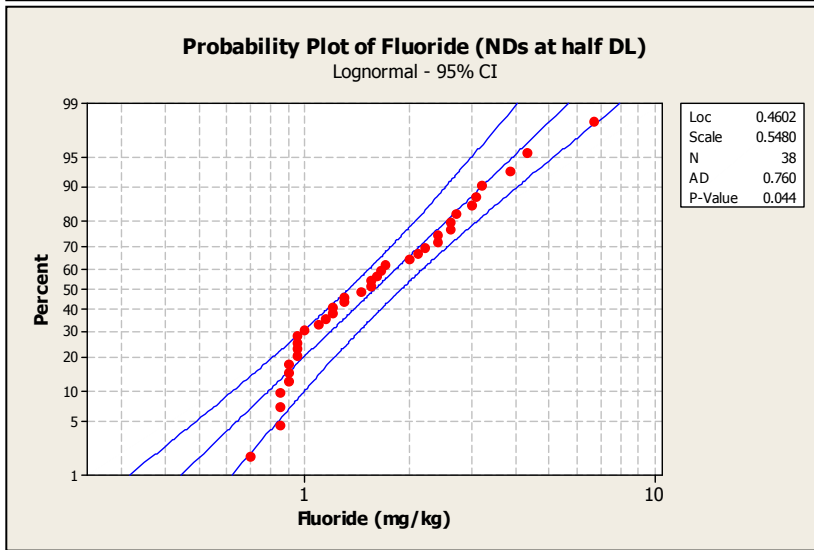
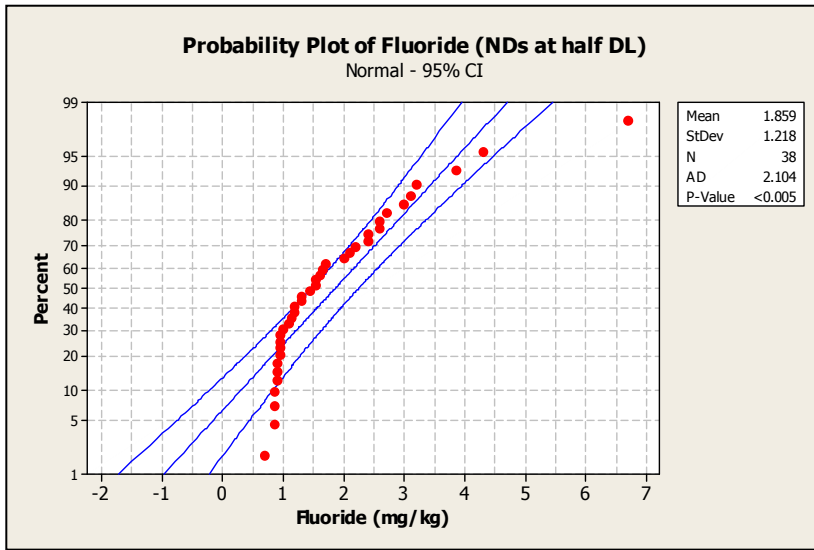
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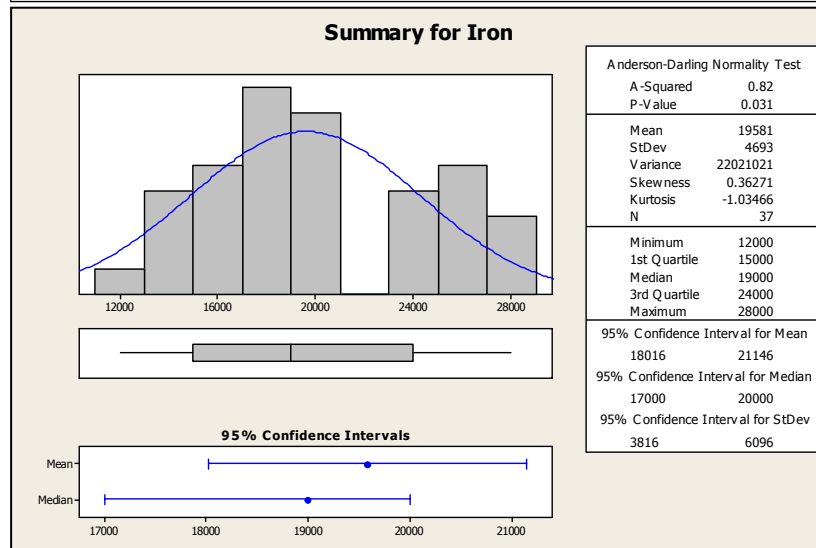
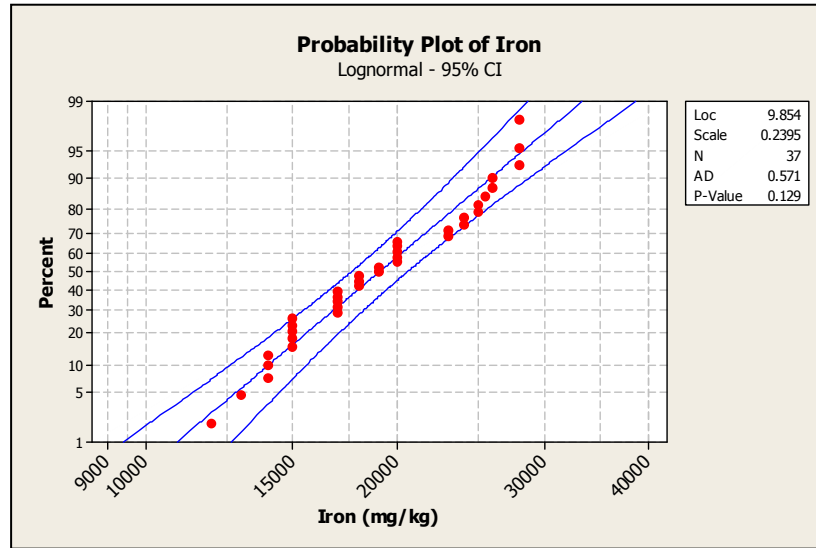
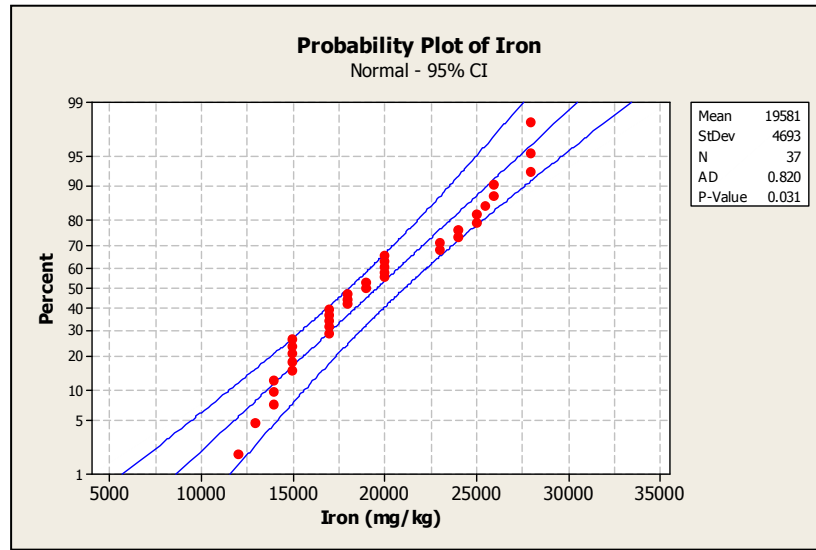
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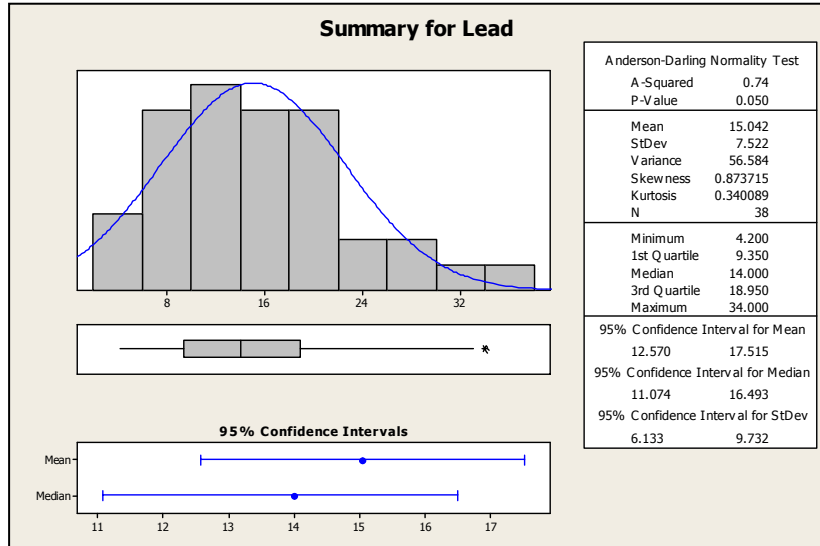
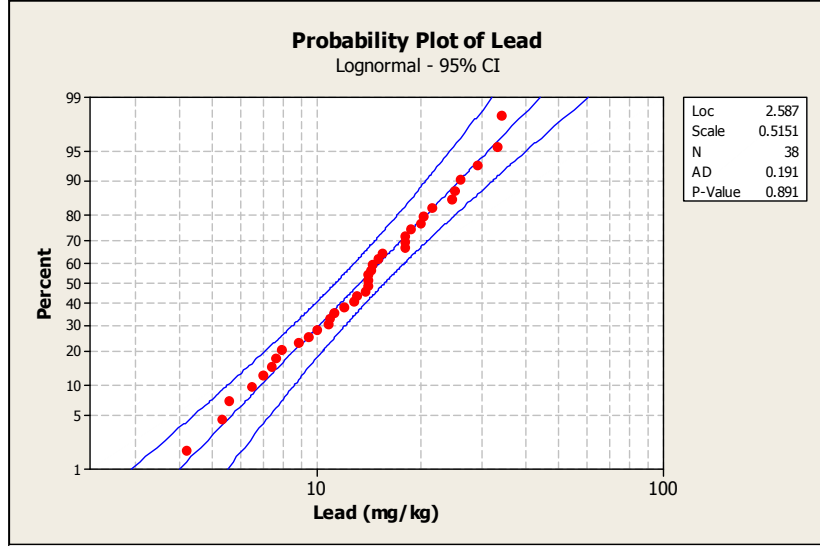
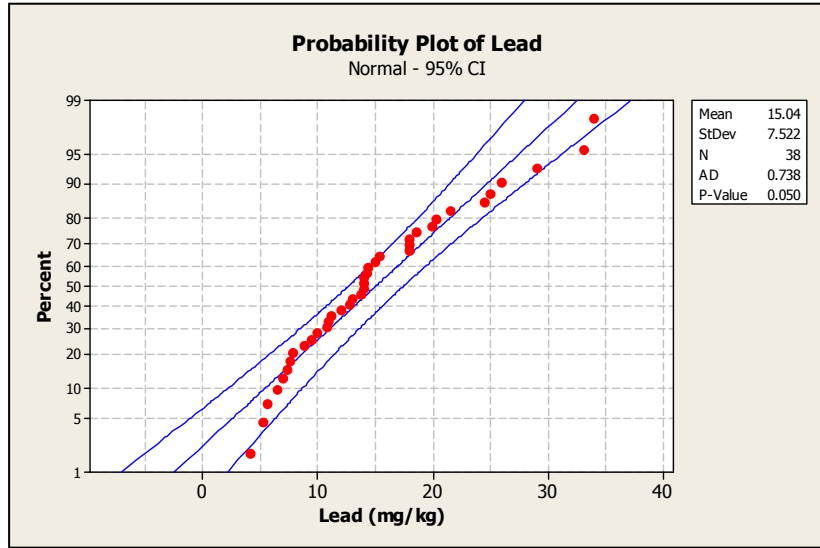
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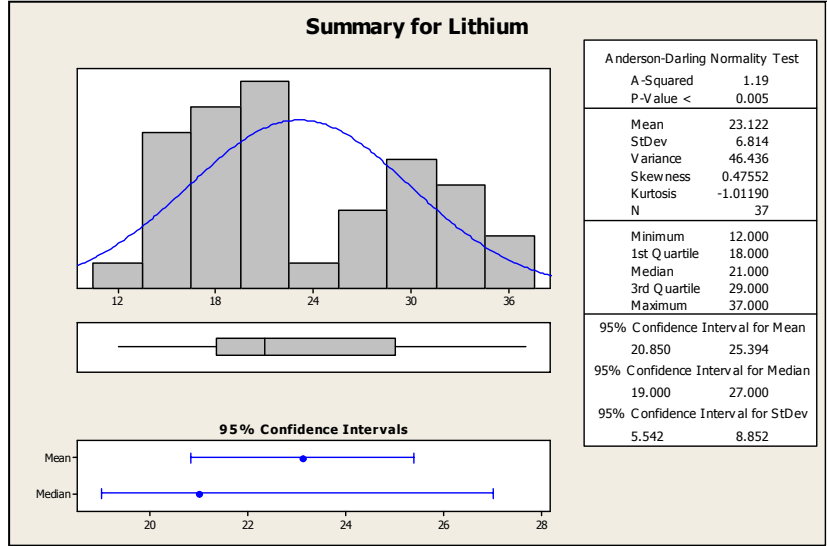
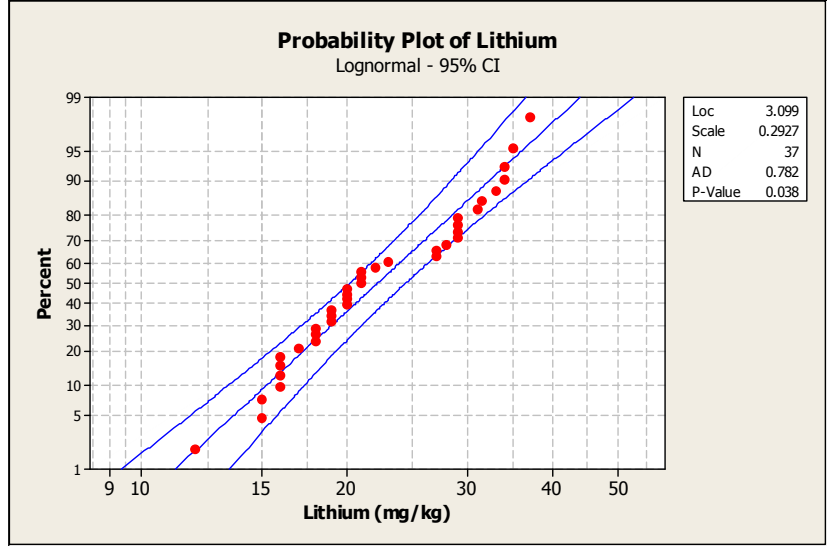
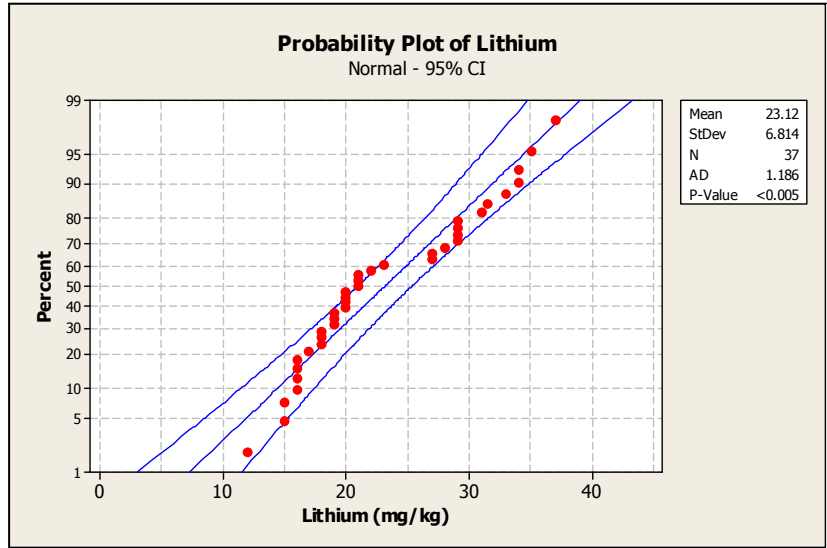
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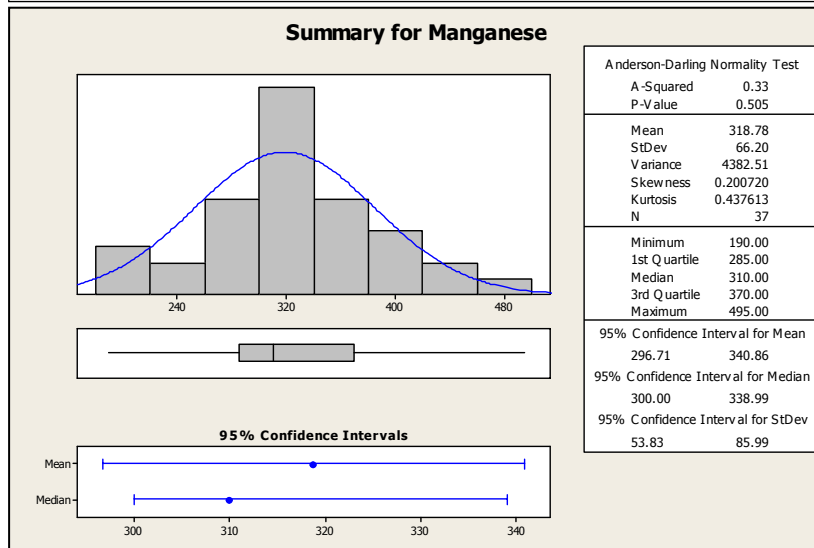
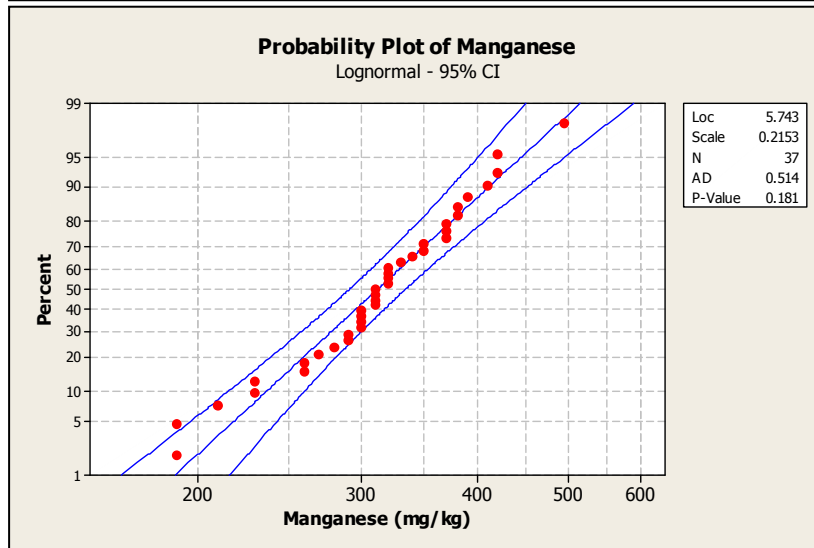
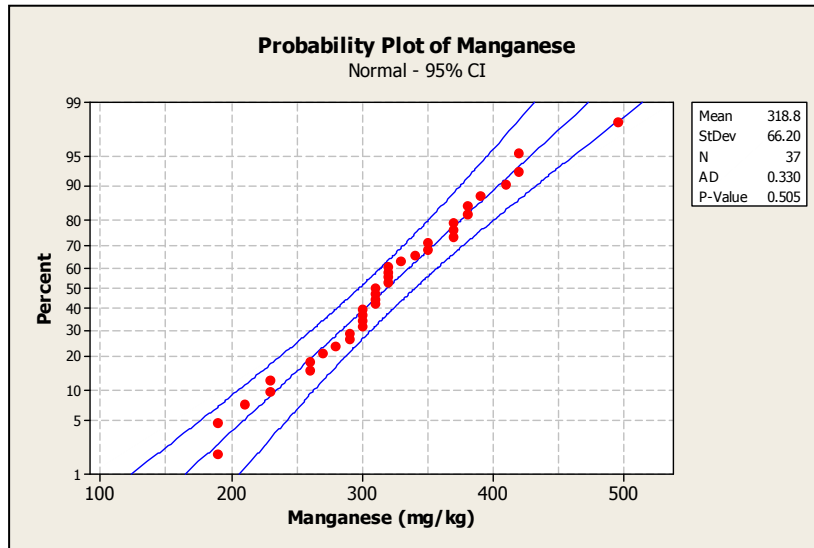
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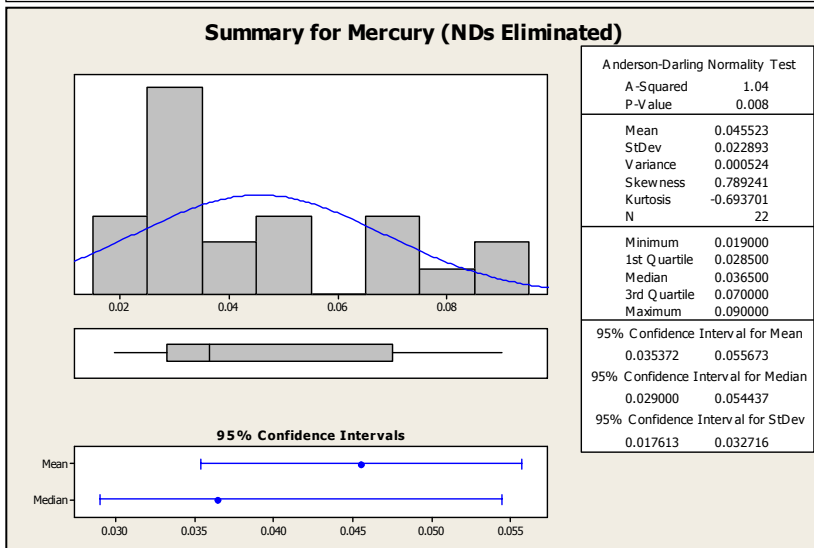
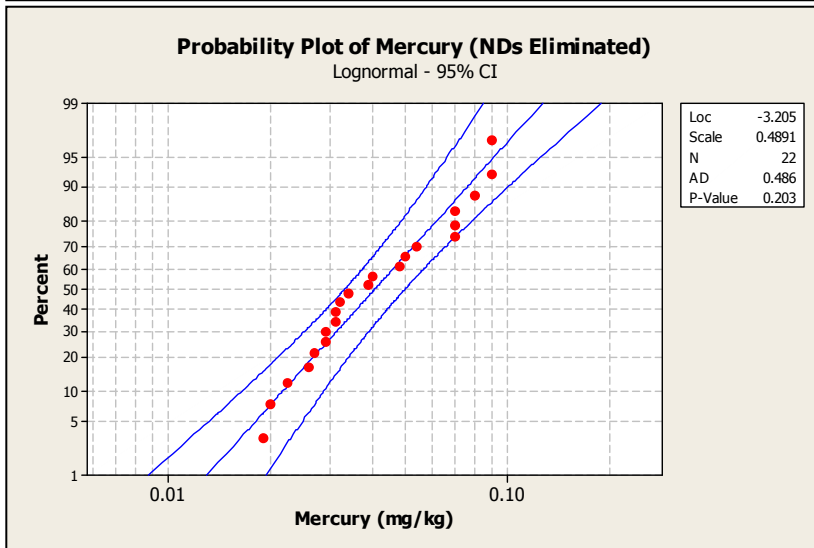
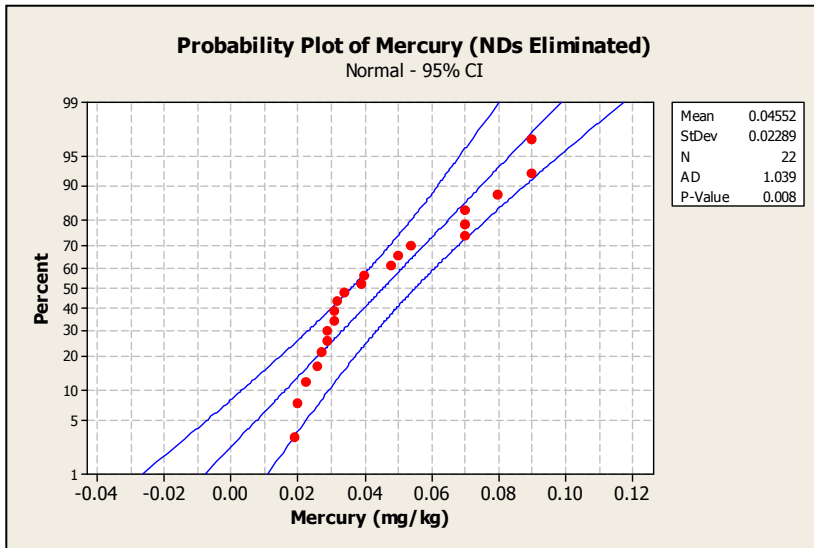
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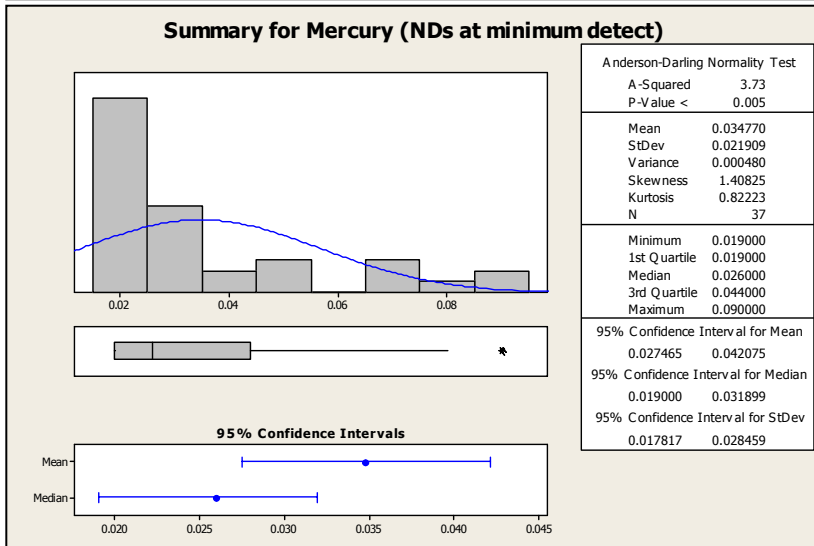
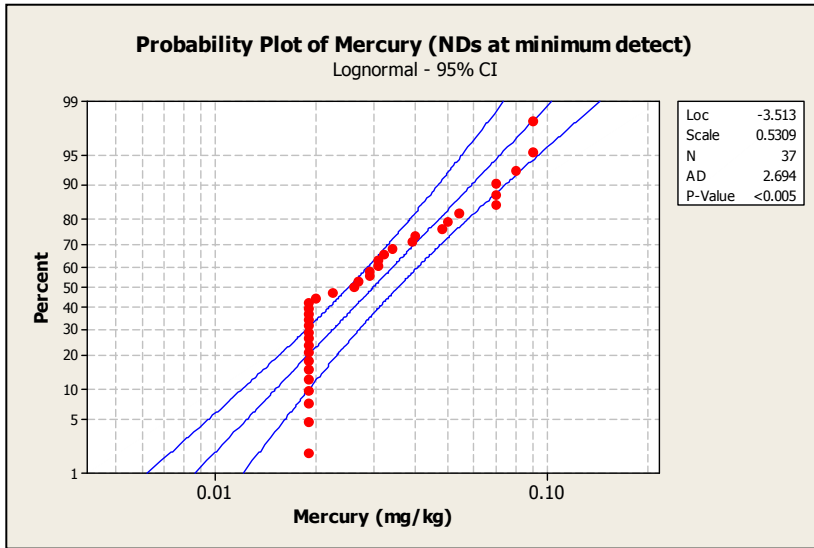
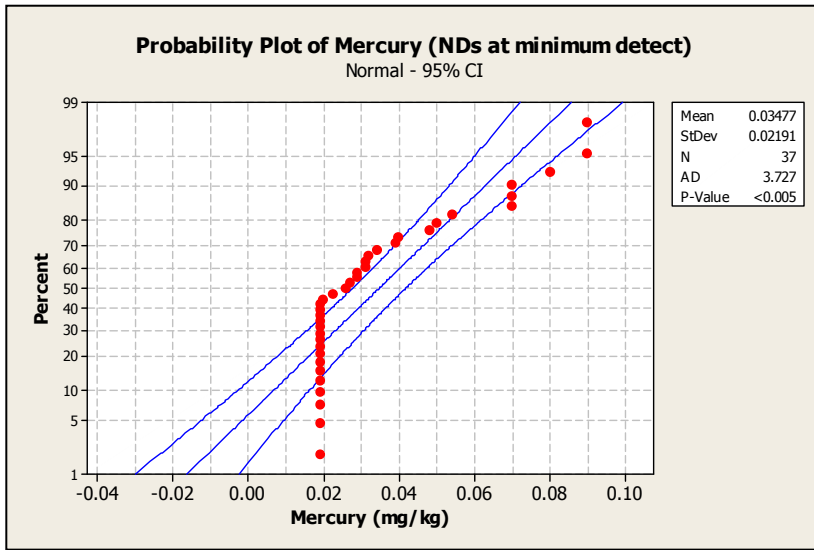
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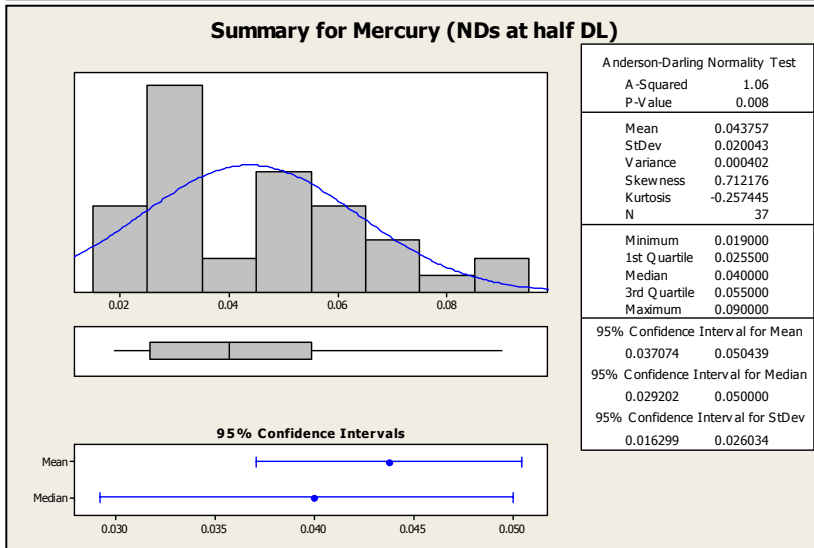
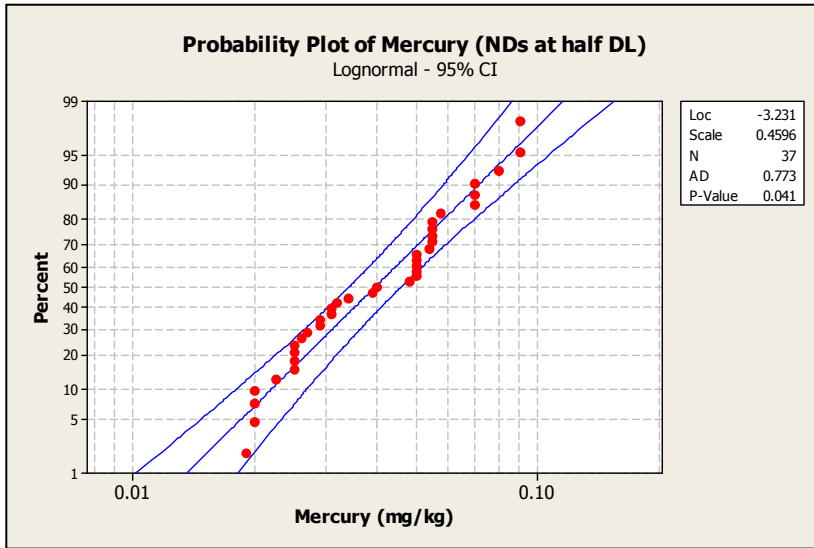
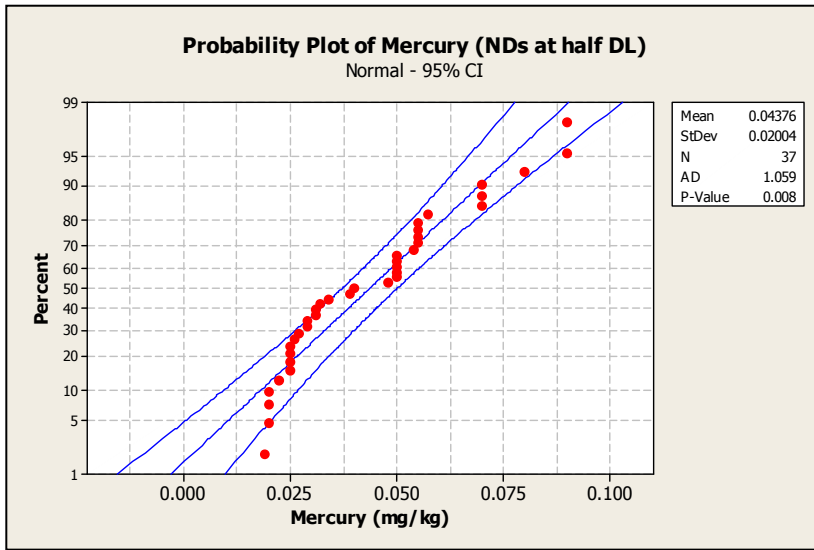
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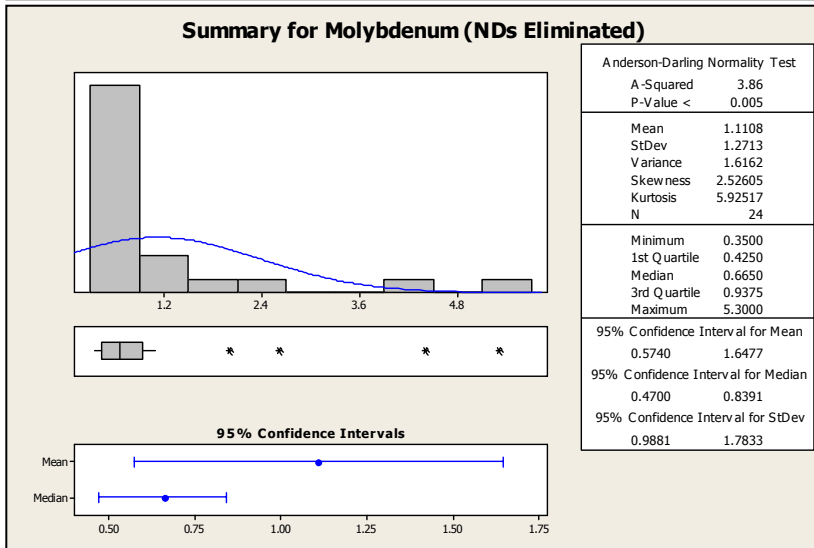
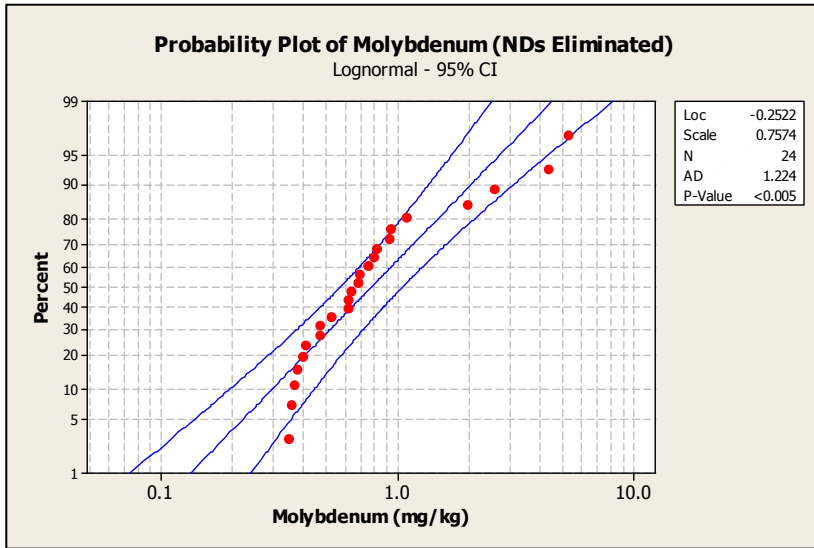
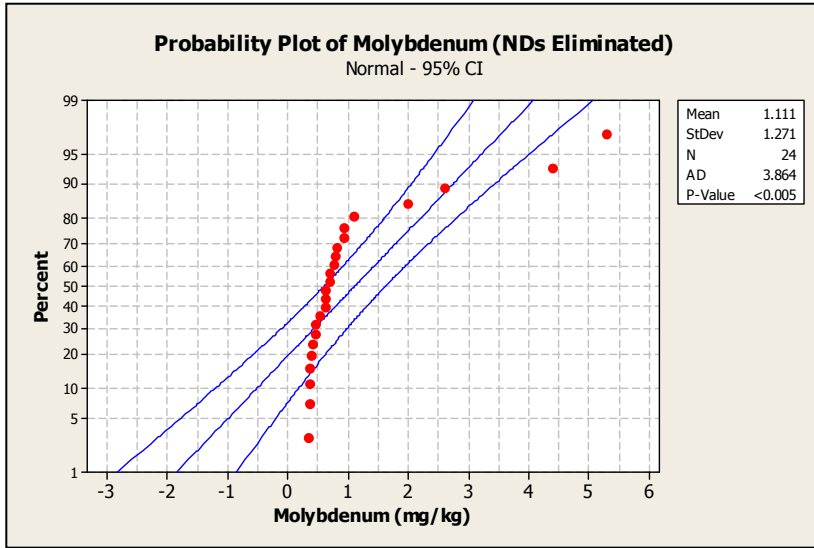
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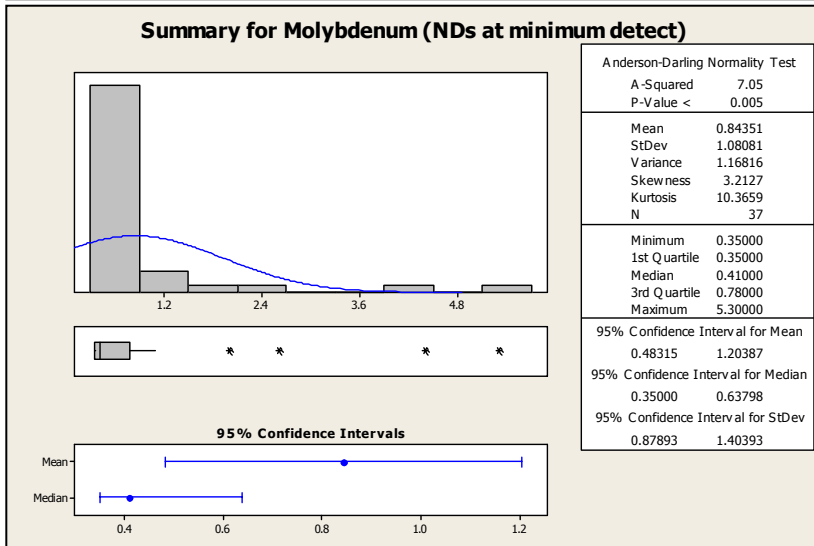
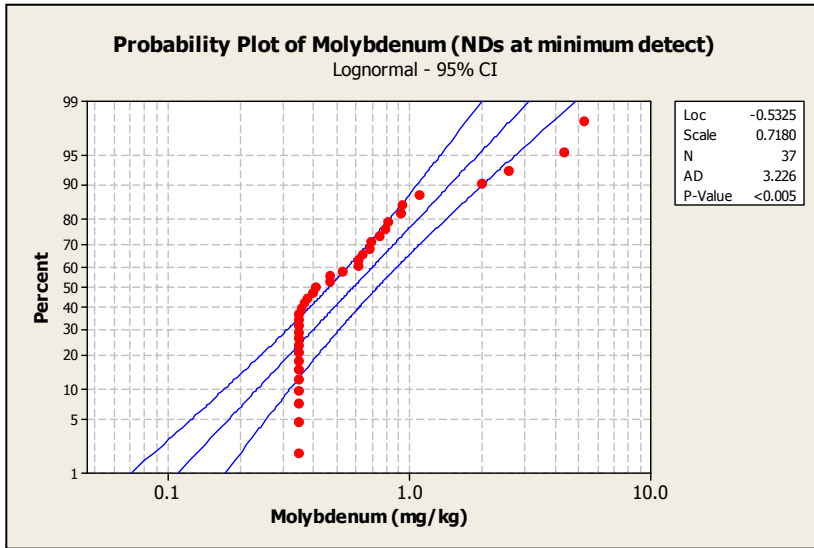
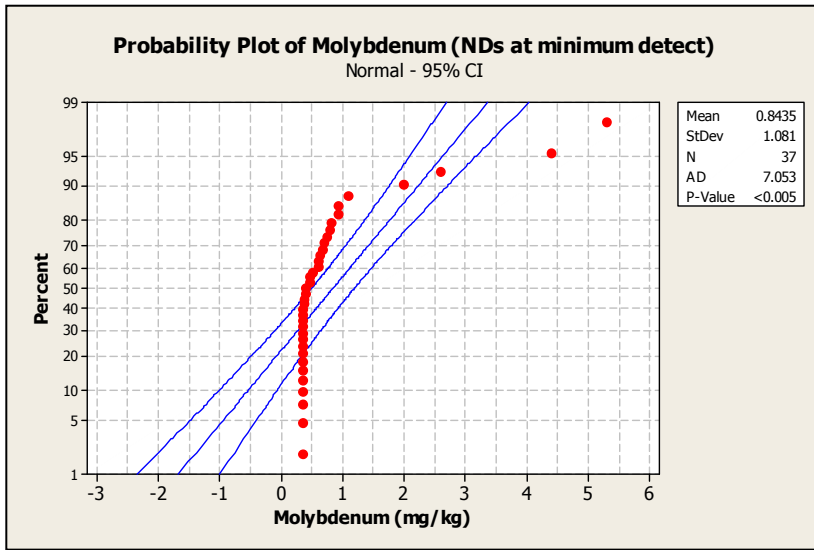
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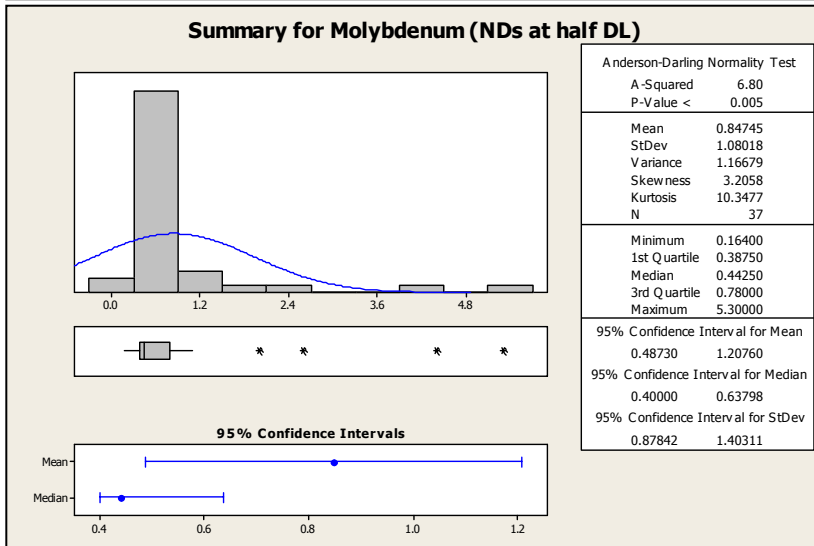
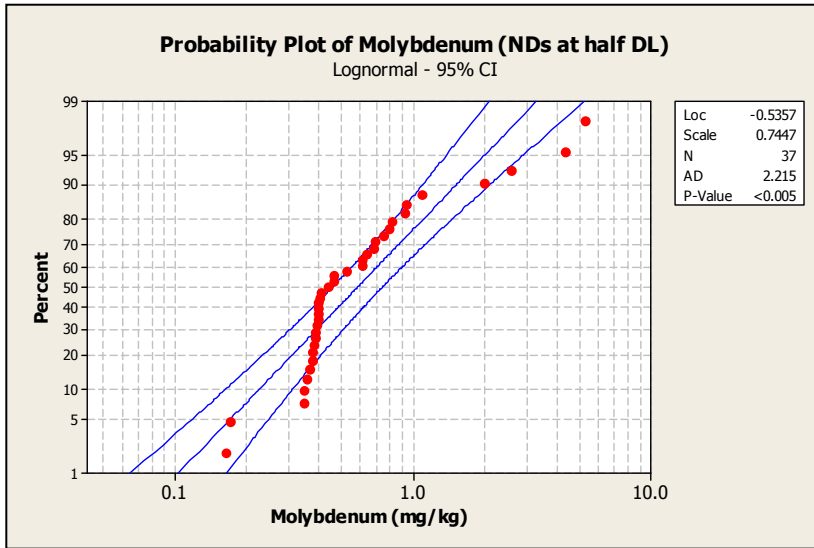
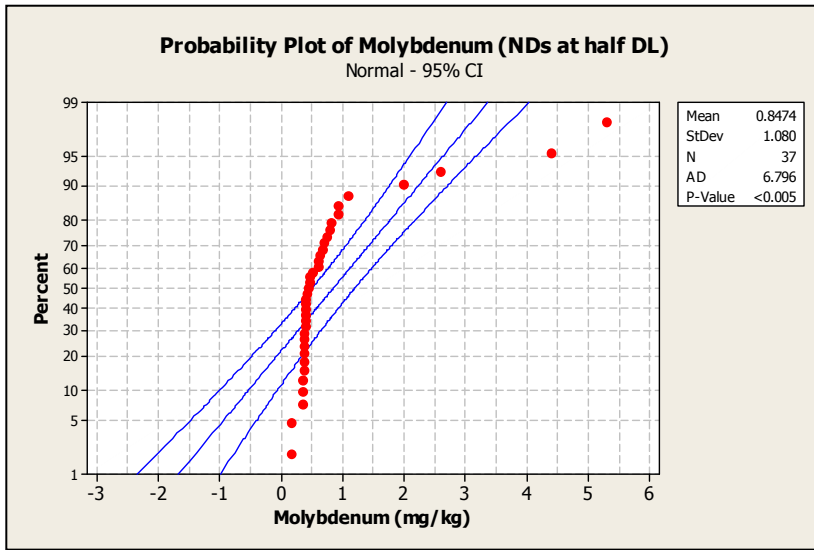
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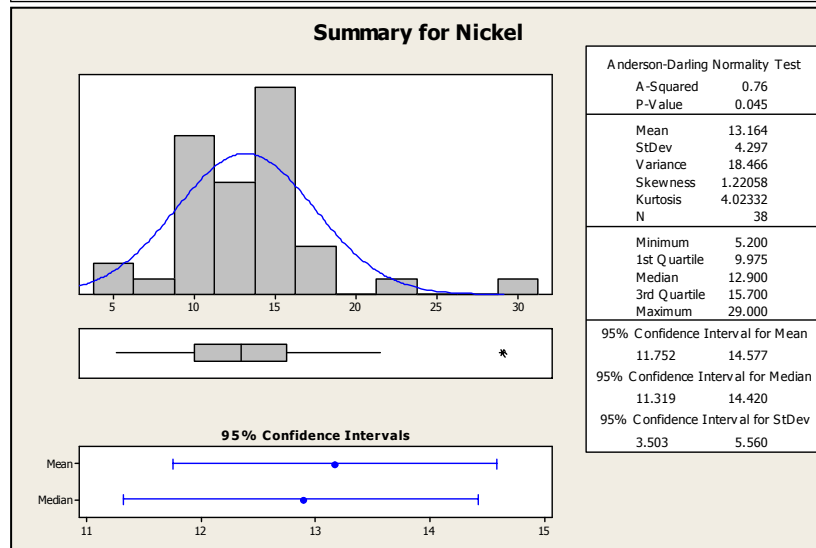
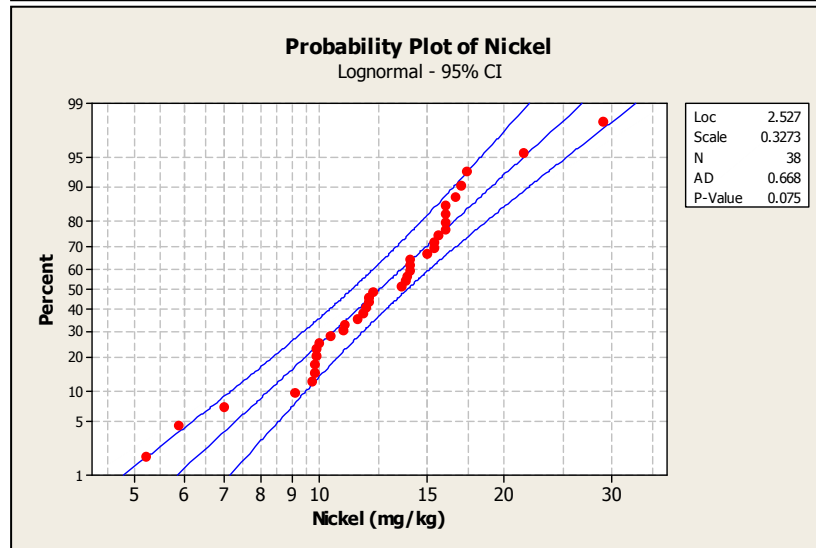
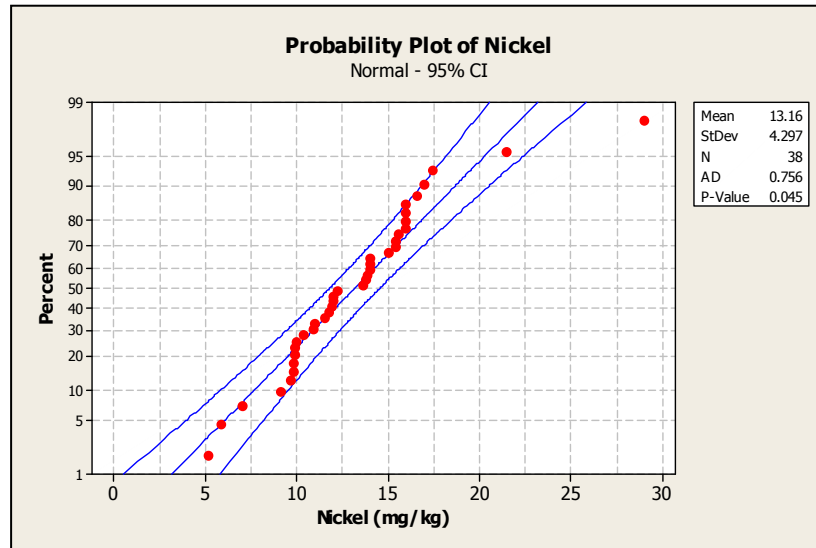
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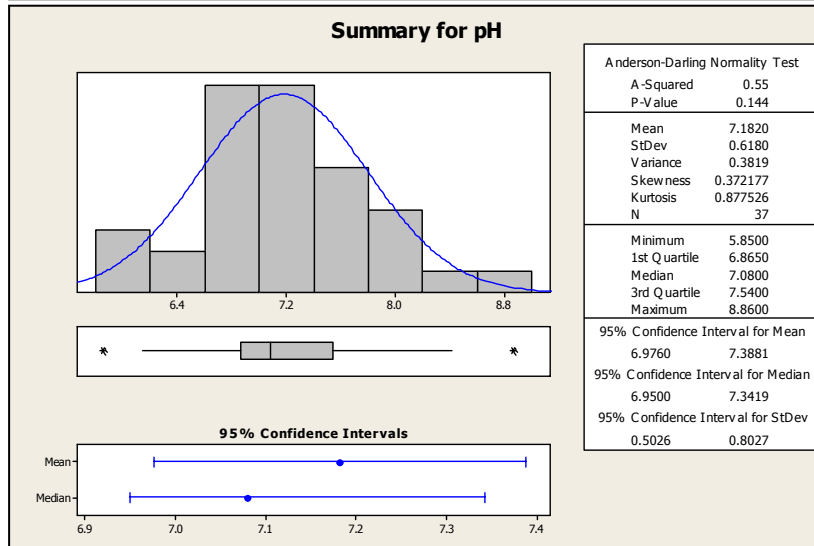
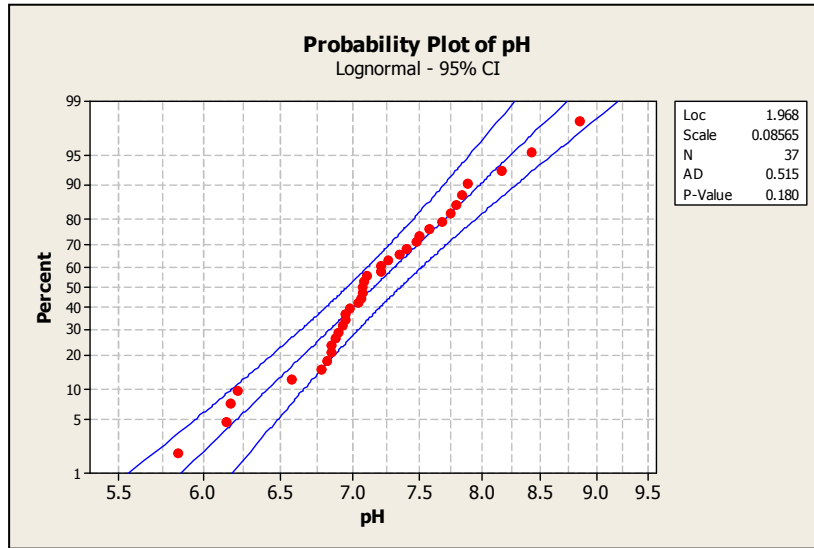
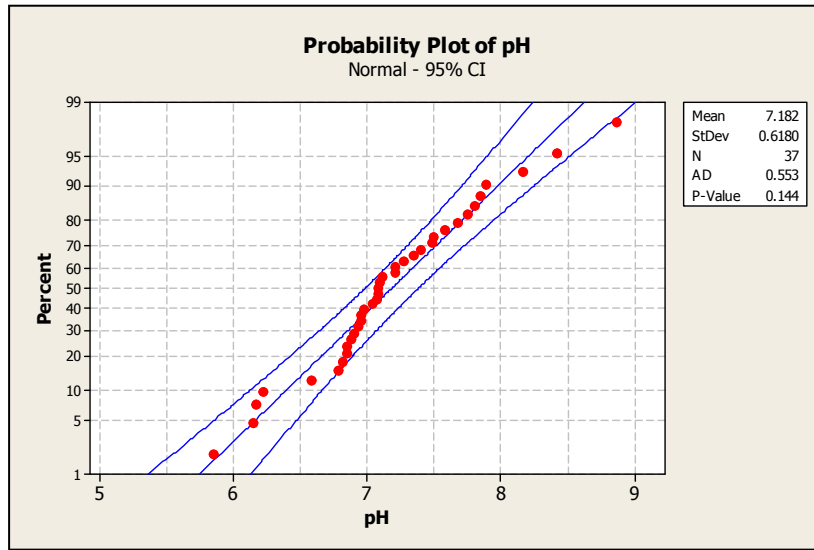
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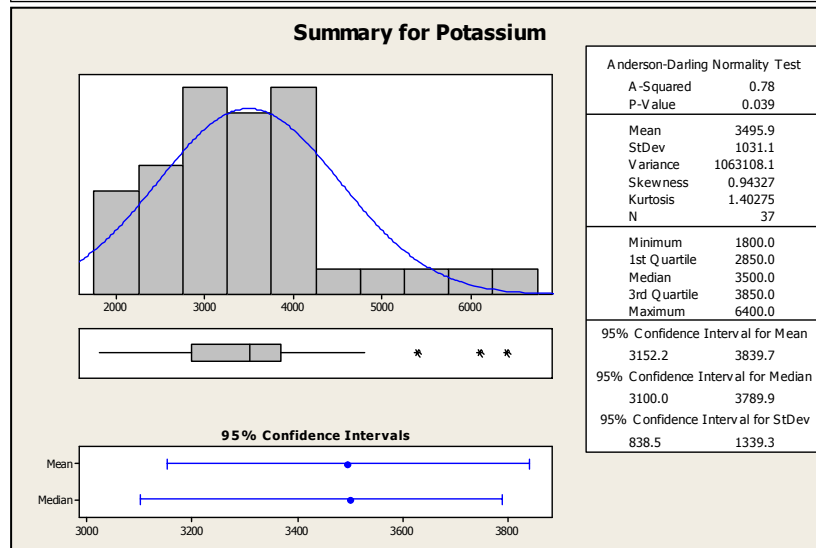
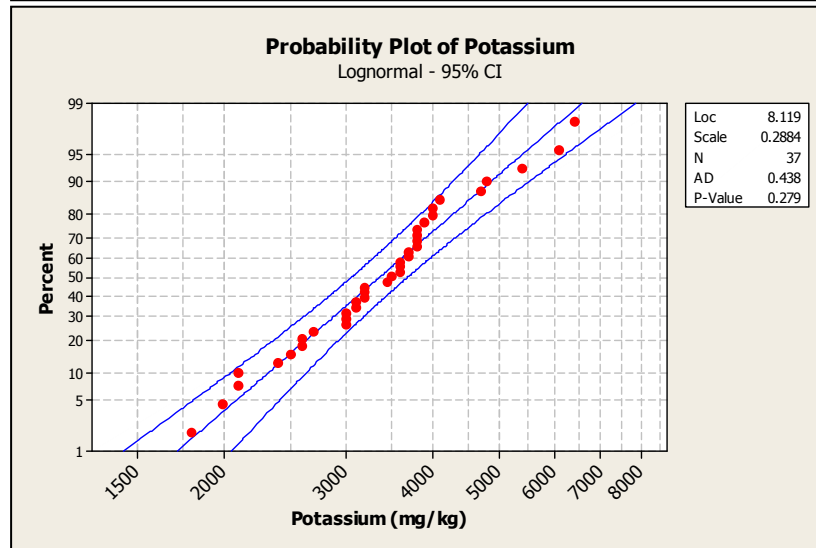
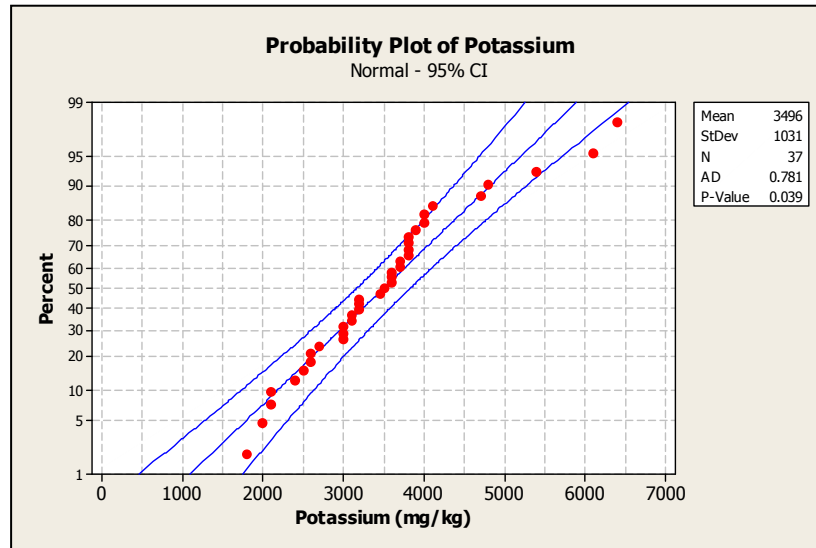
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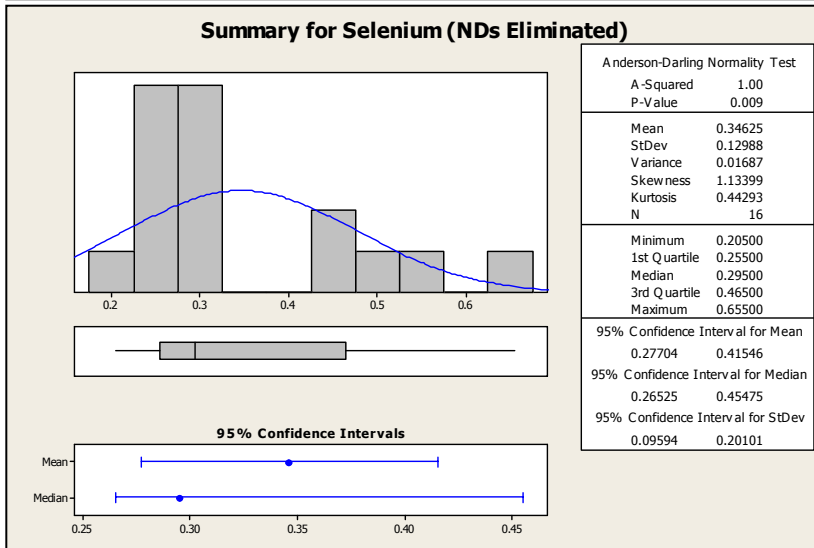
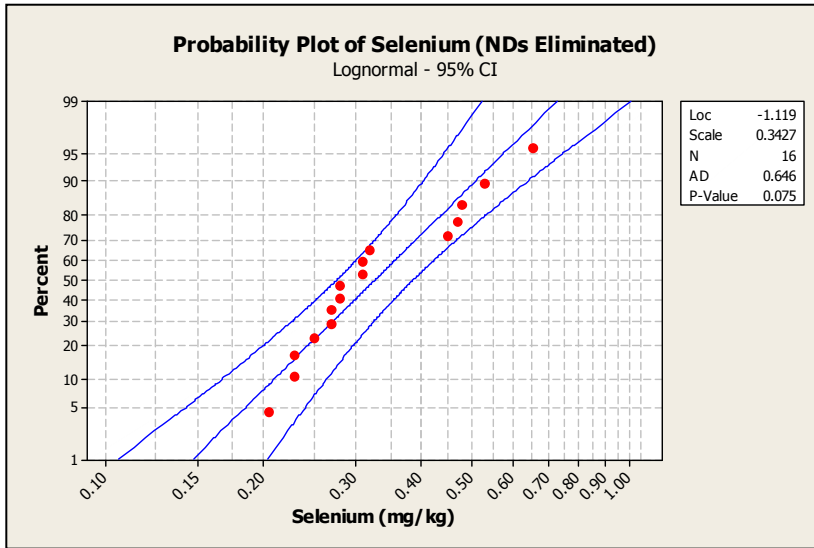
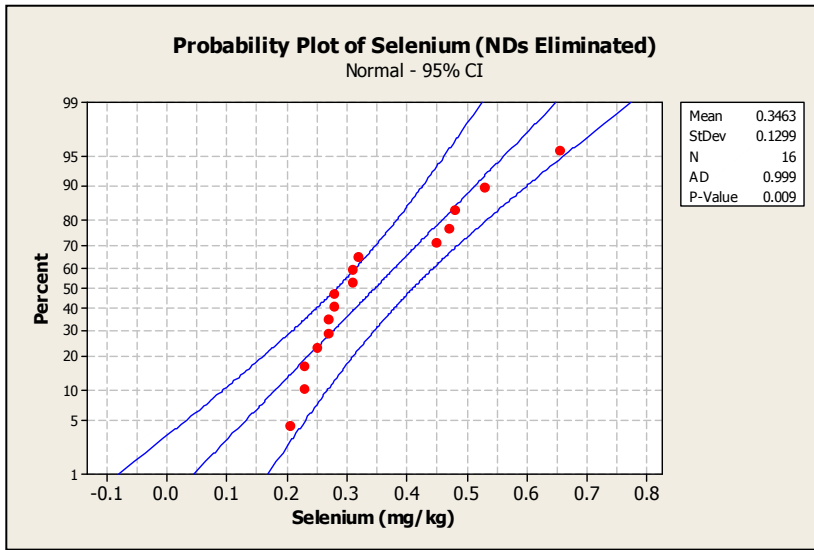
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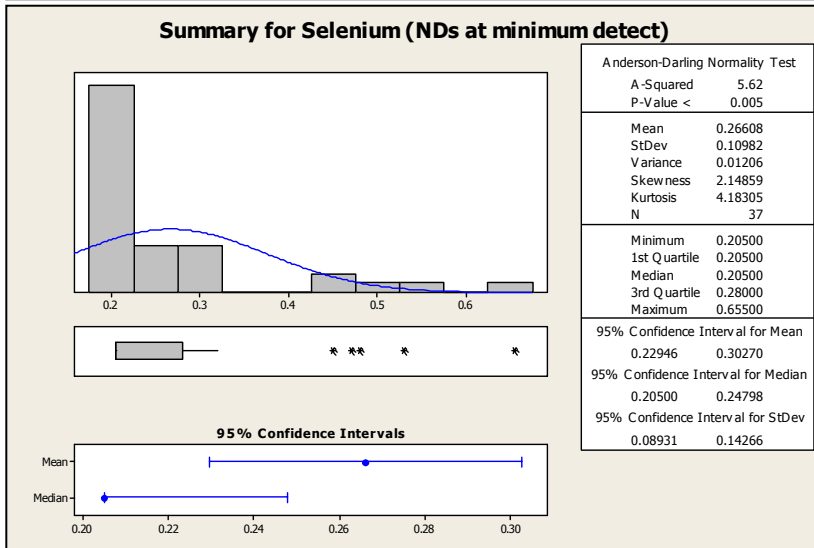
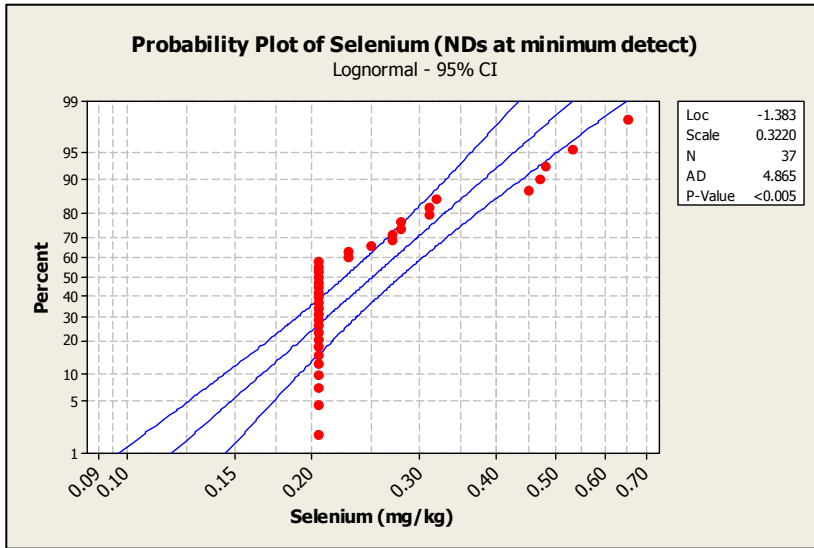
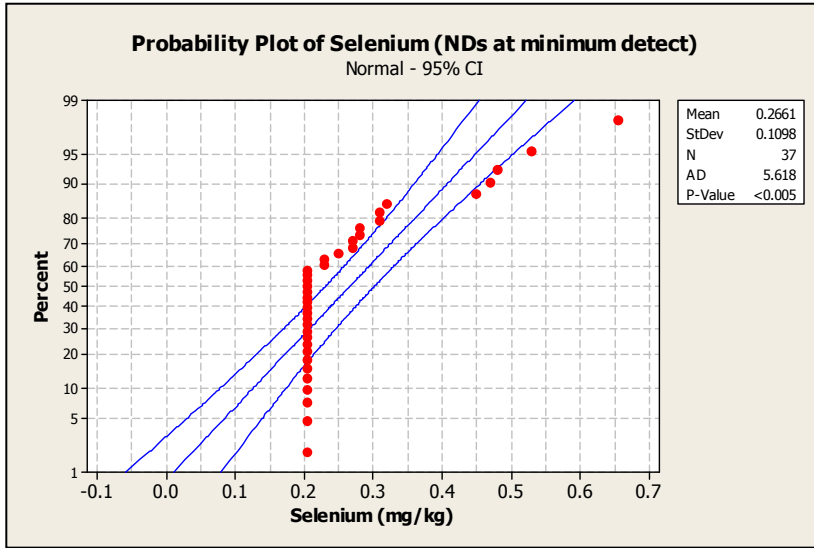
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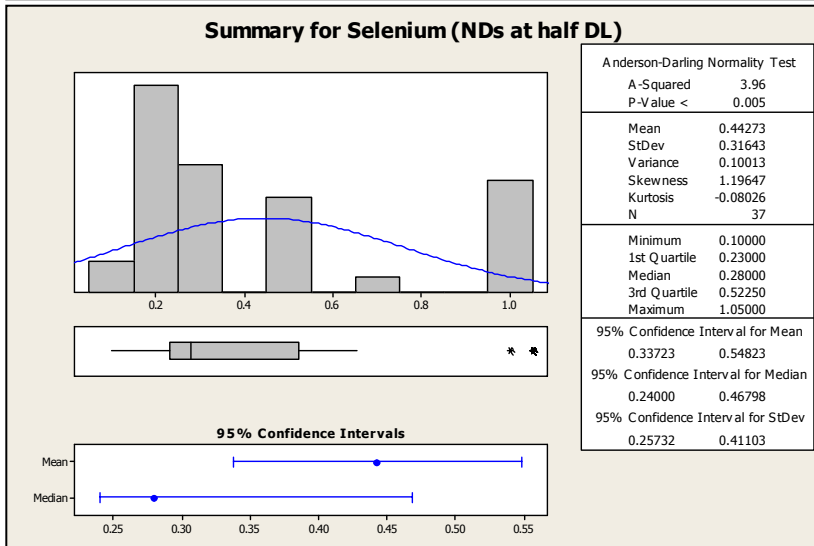
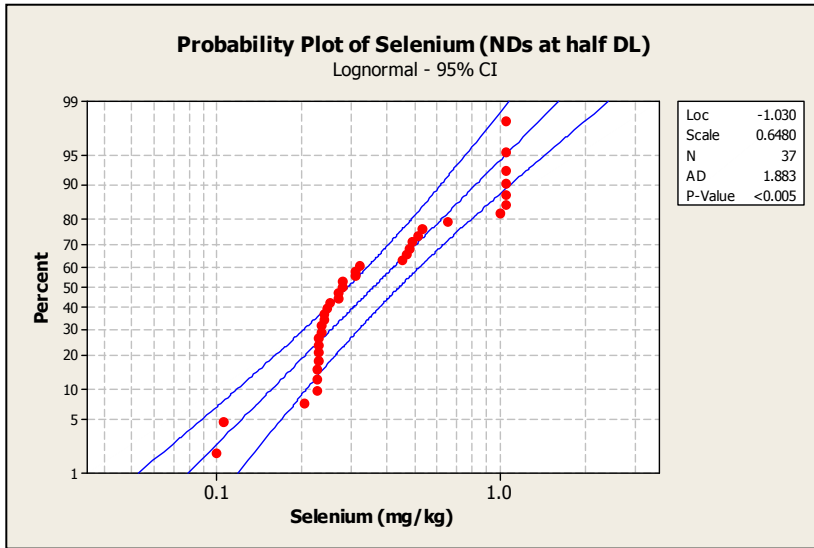
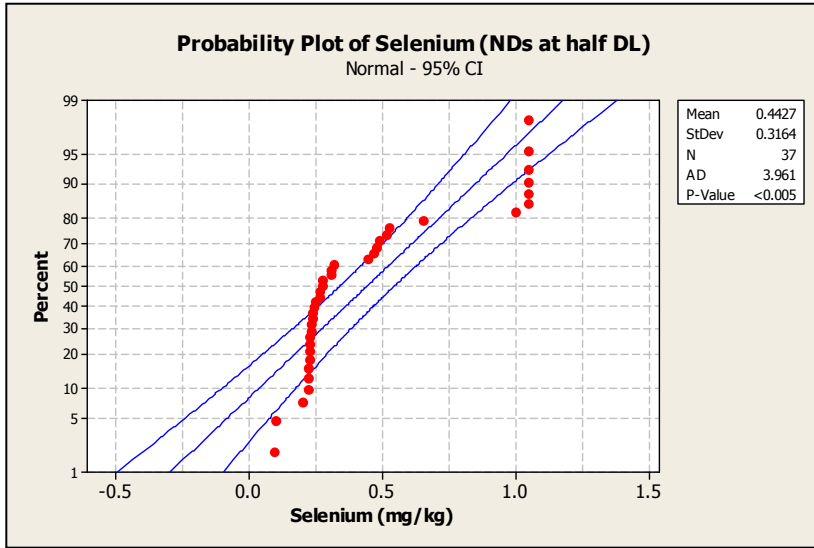
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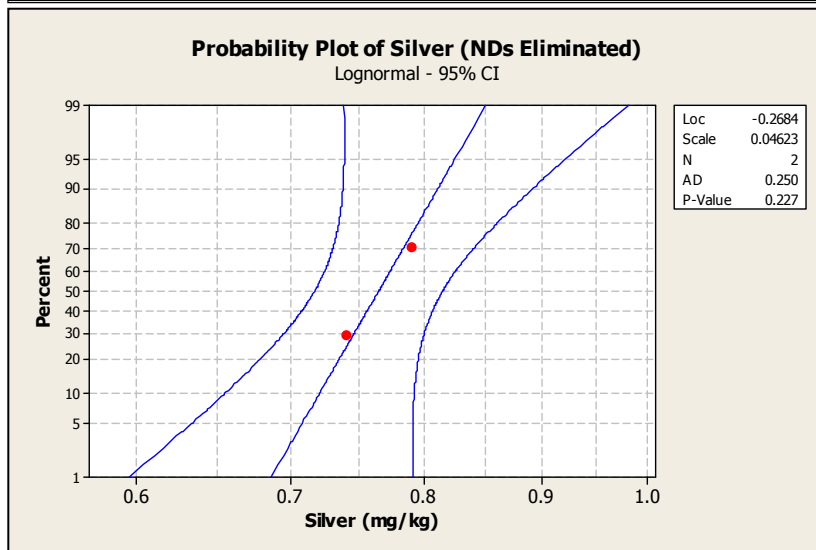
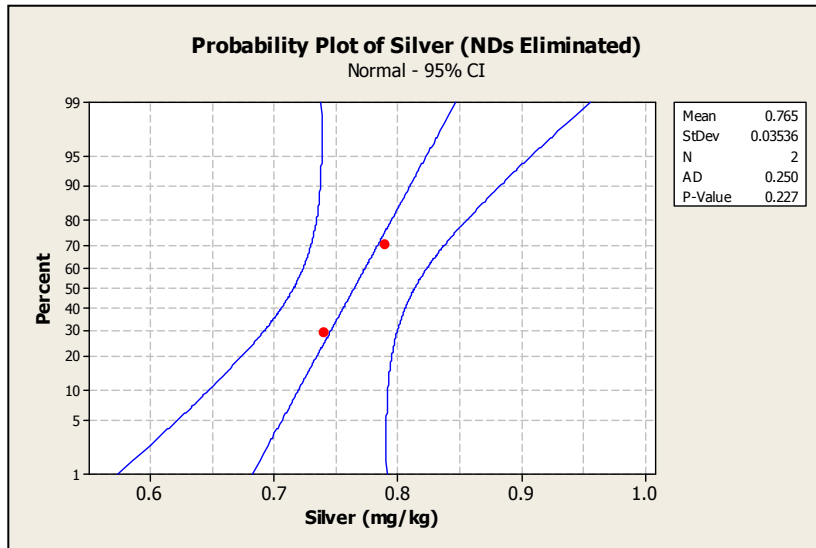
Selenium

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Silver

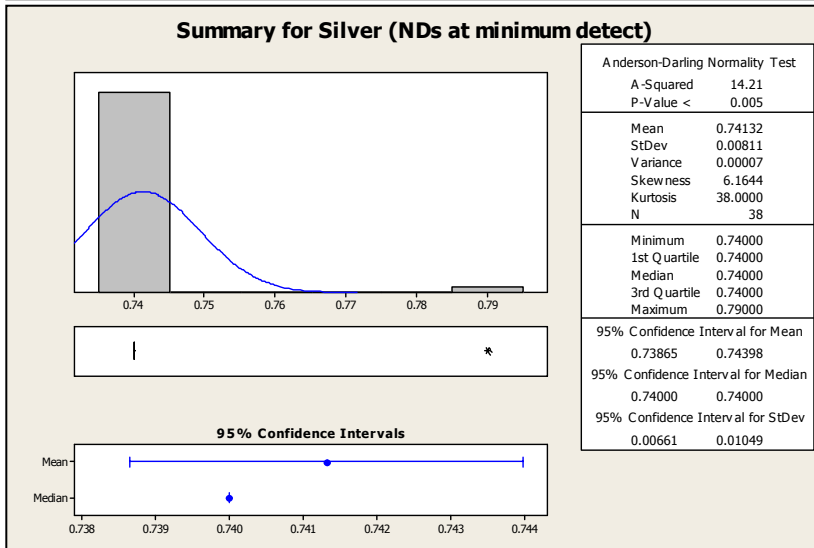
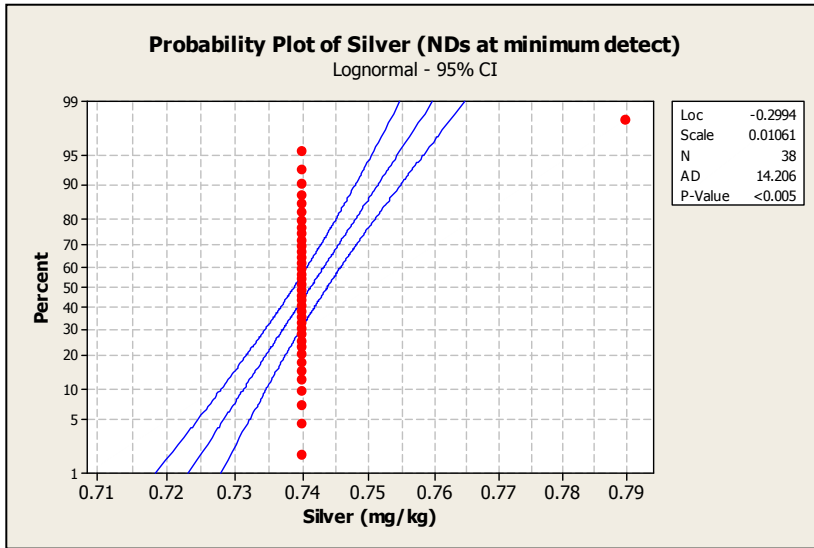
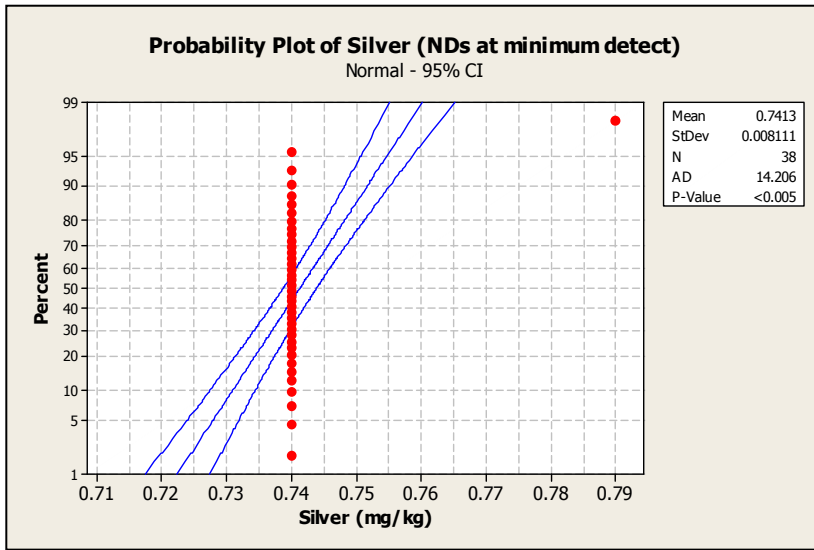
(Page 1 of 3)



GRAPHICAL SUMMARY NOT PREPARED FOR SILVER WITH "NDs ELIMINATED" DUE TO INSUFFICIENT NUMBER OF DETECTS

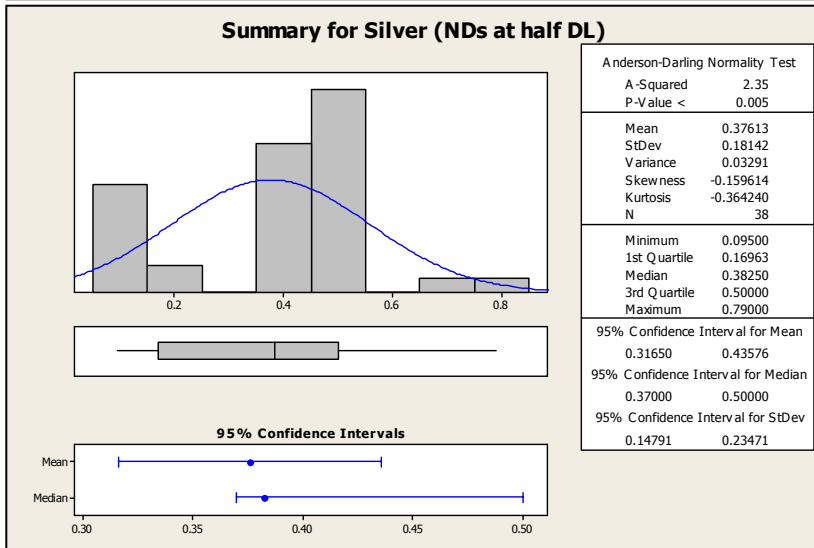
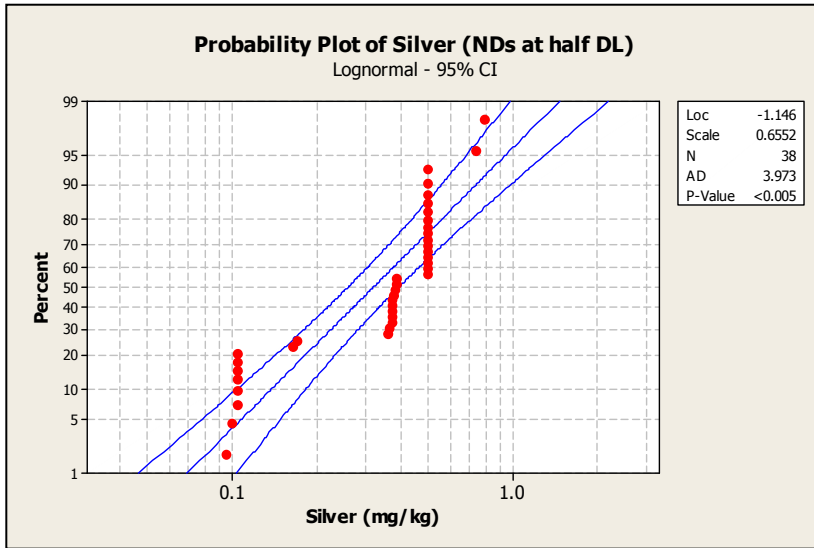
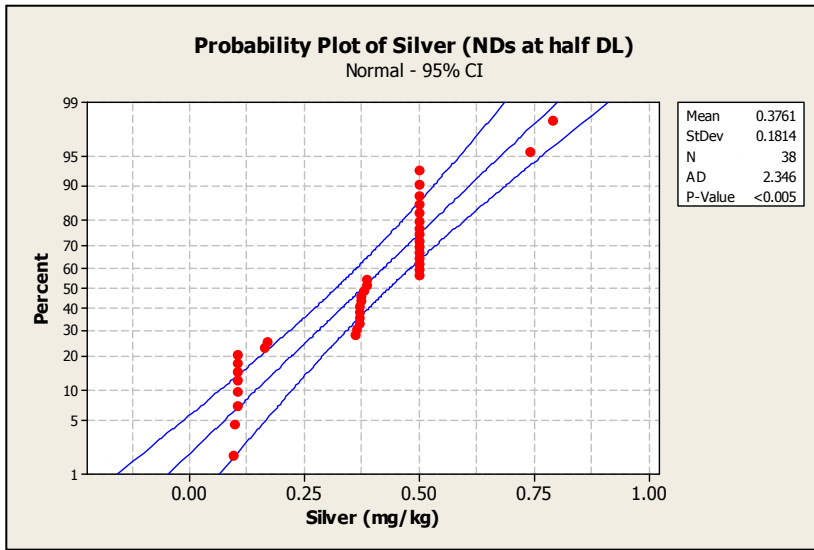
Silver

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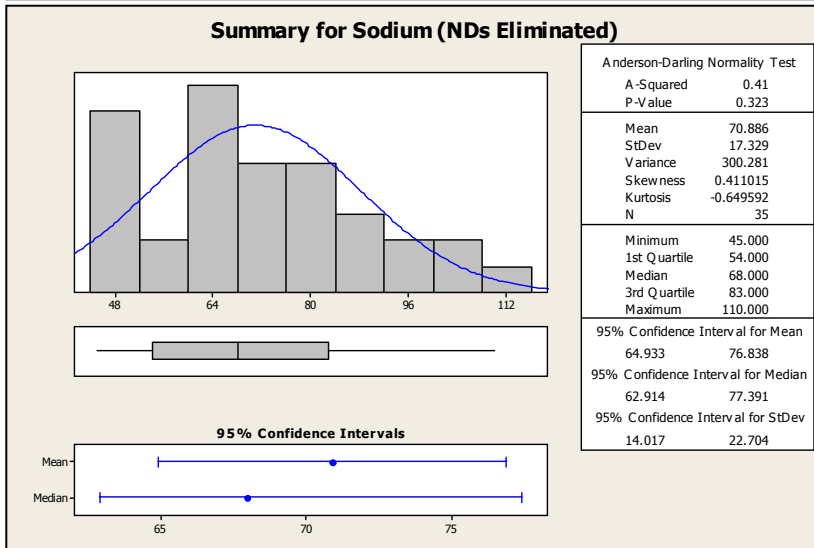
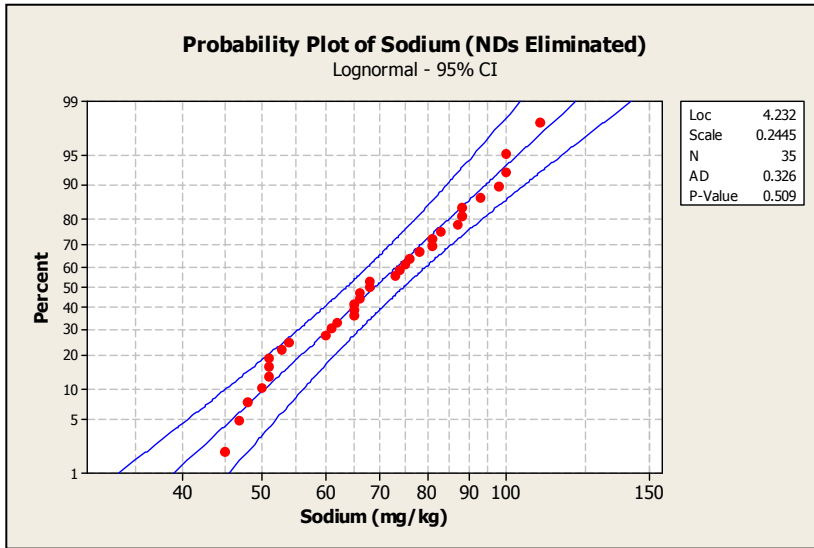
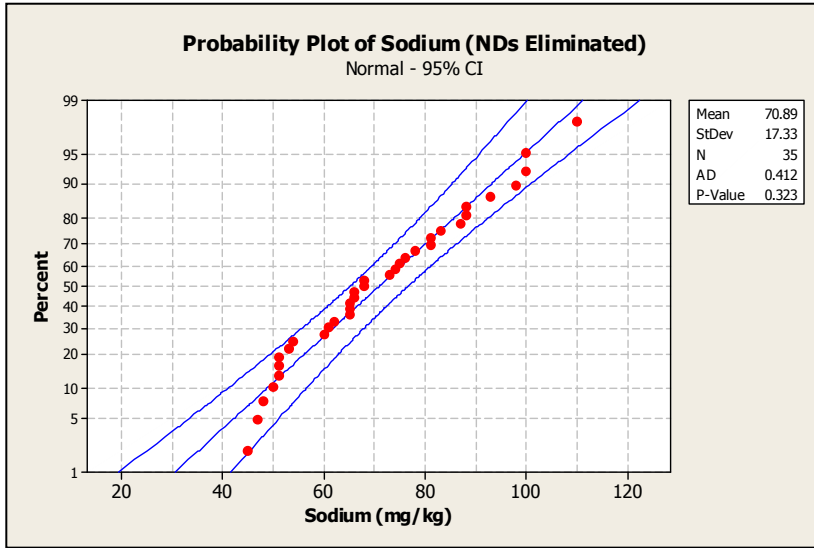
Silver

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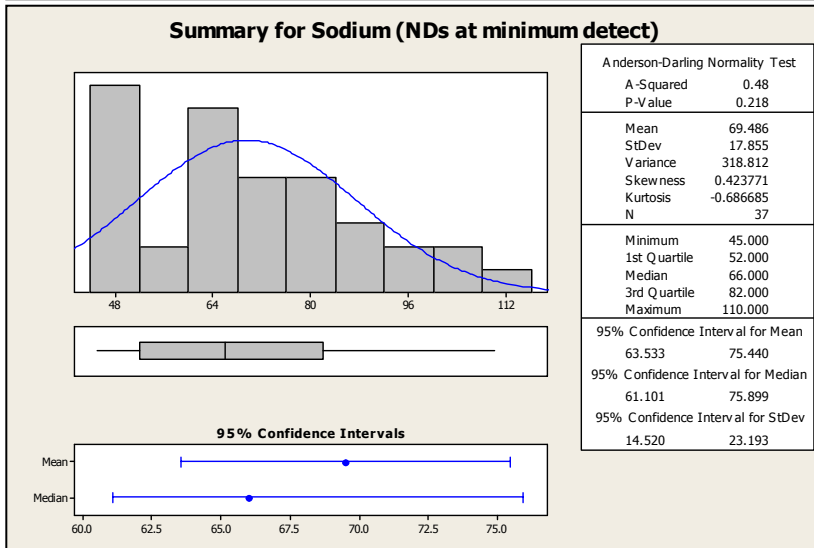
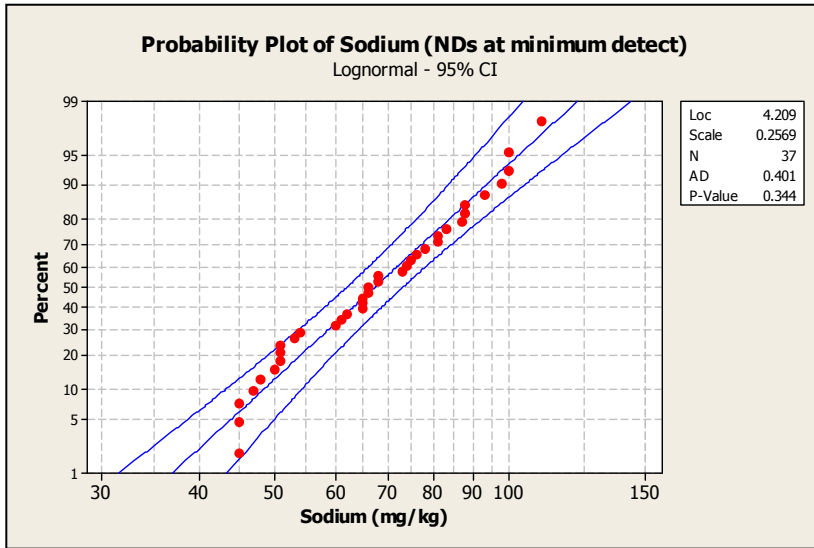
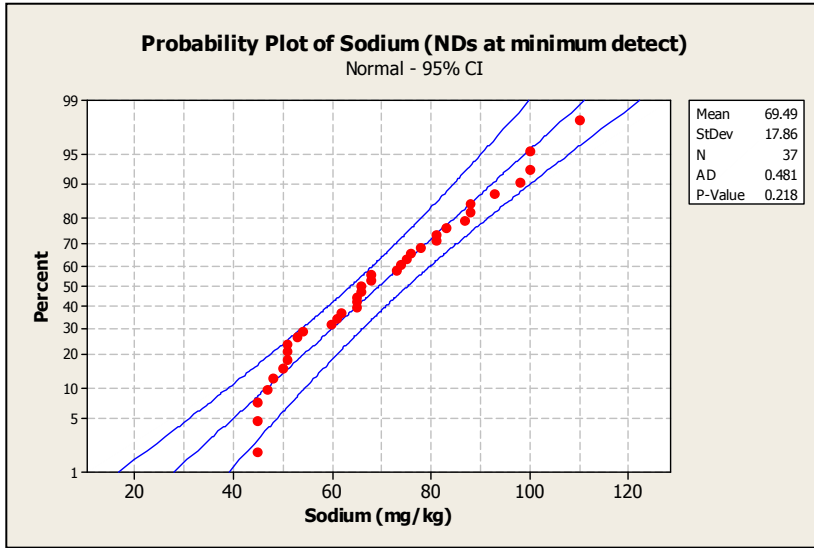
Sodium

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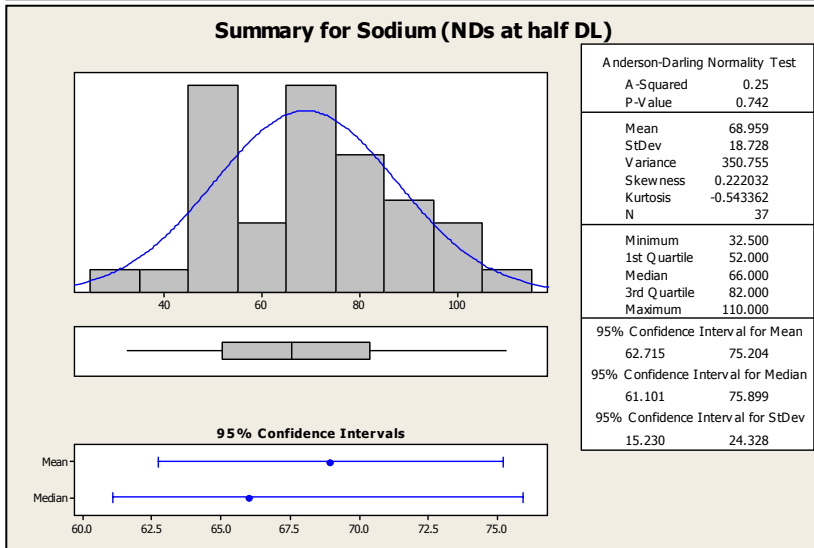
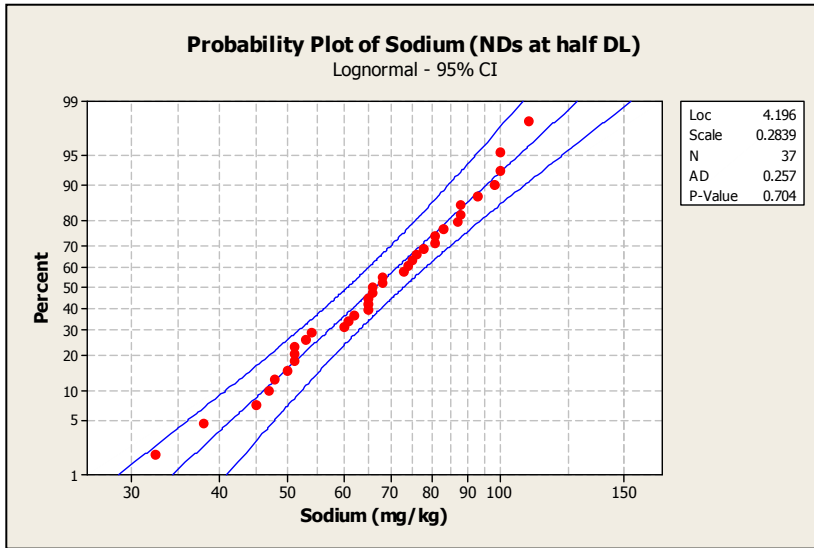
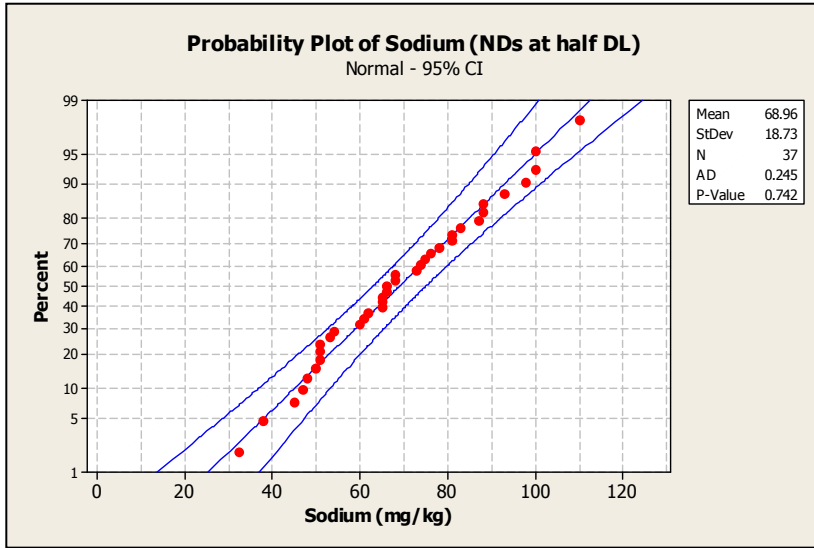
Sodium

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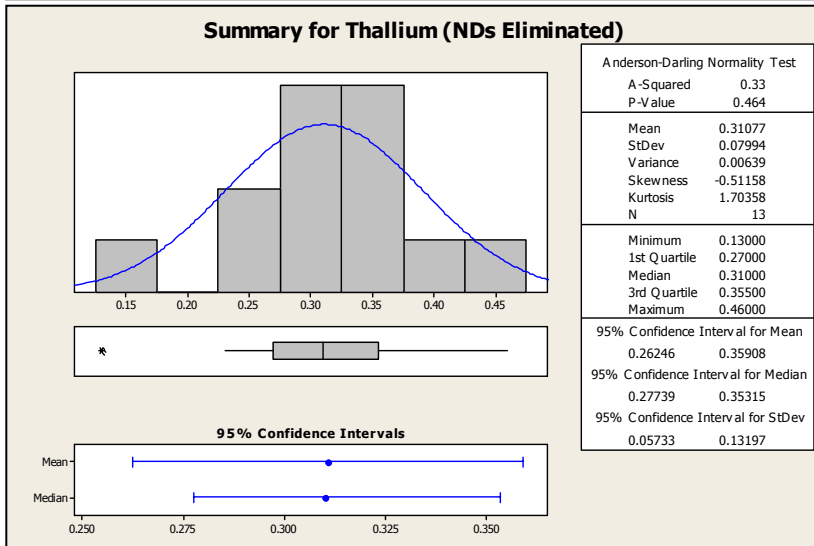
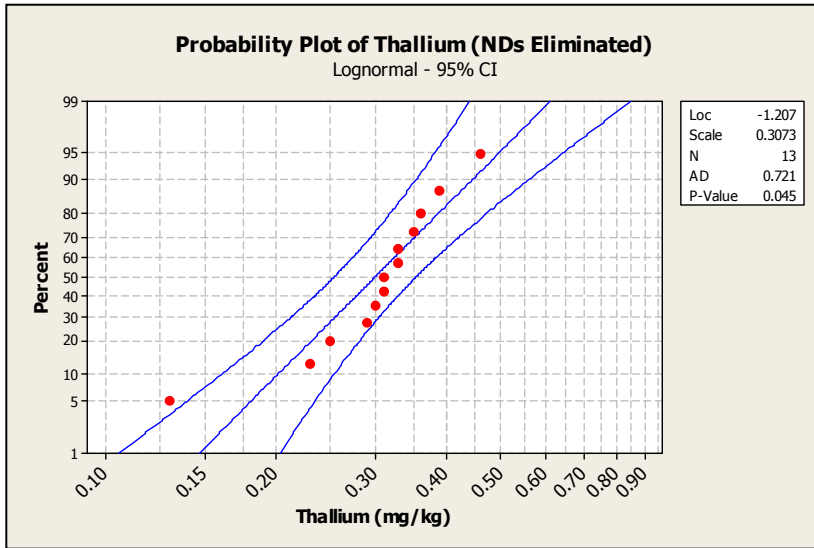
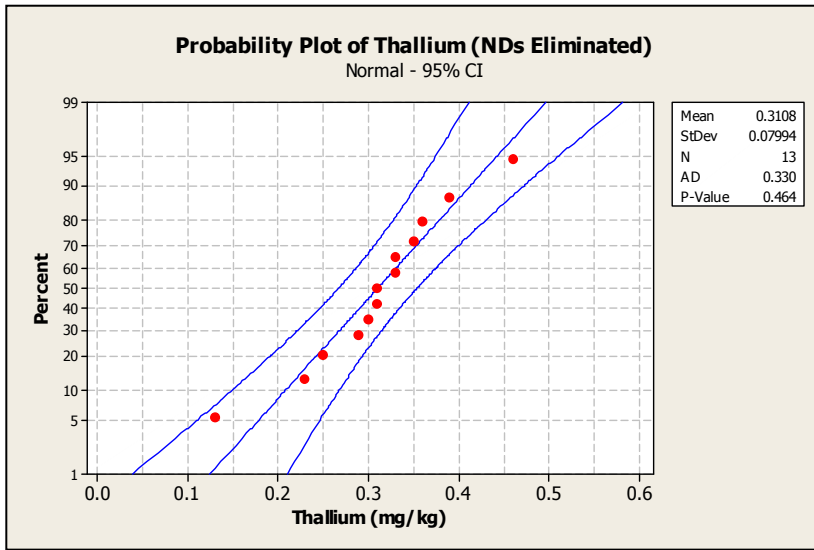
Sodium

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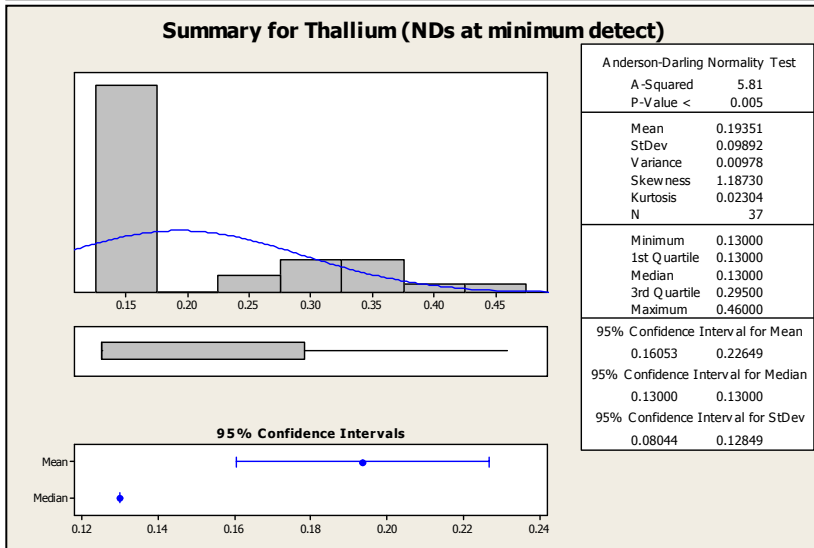
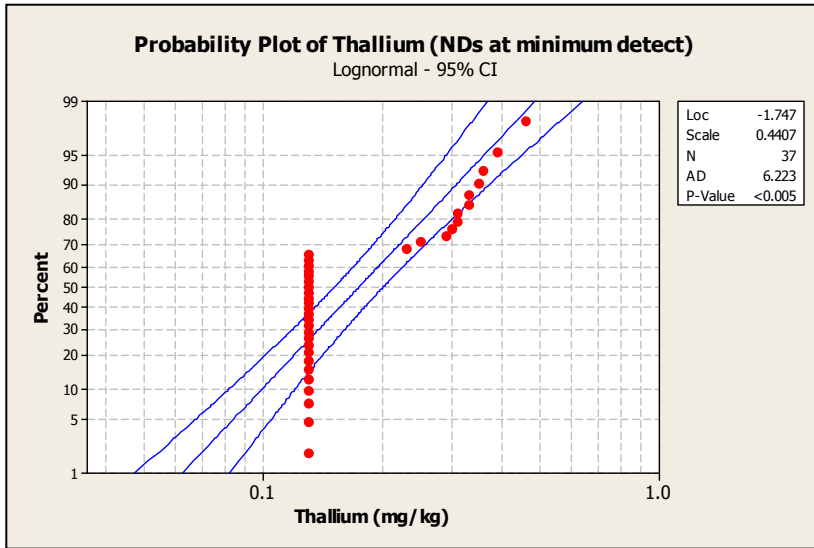
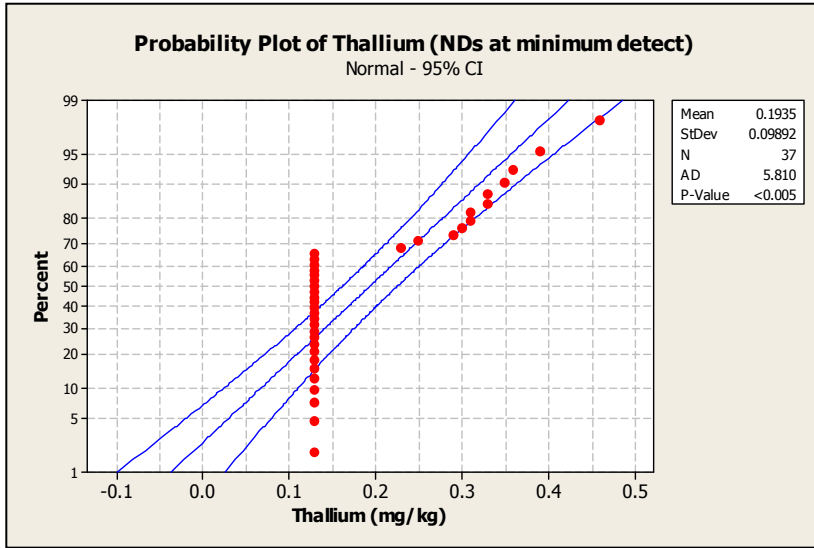
Thallium

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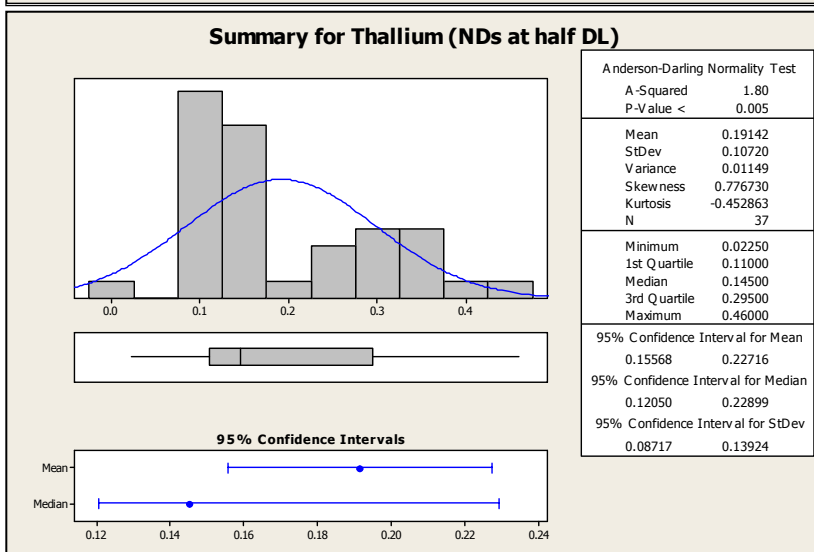
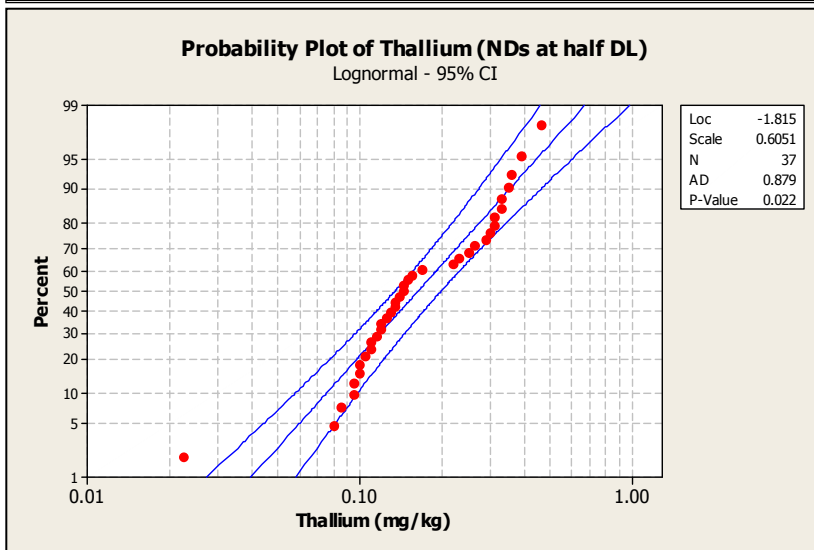
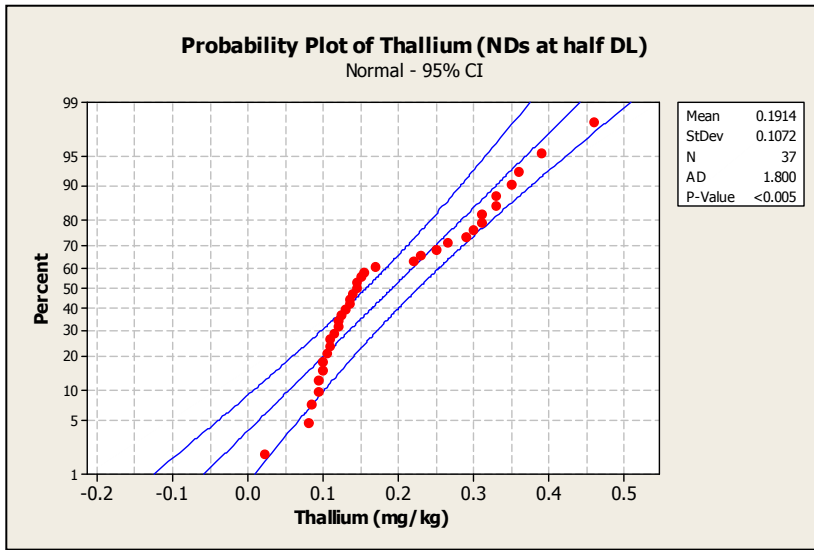
Thallium

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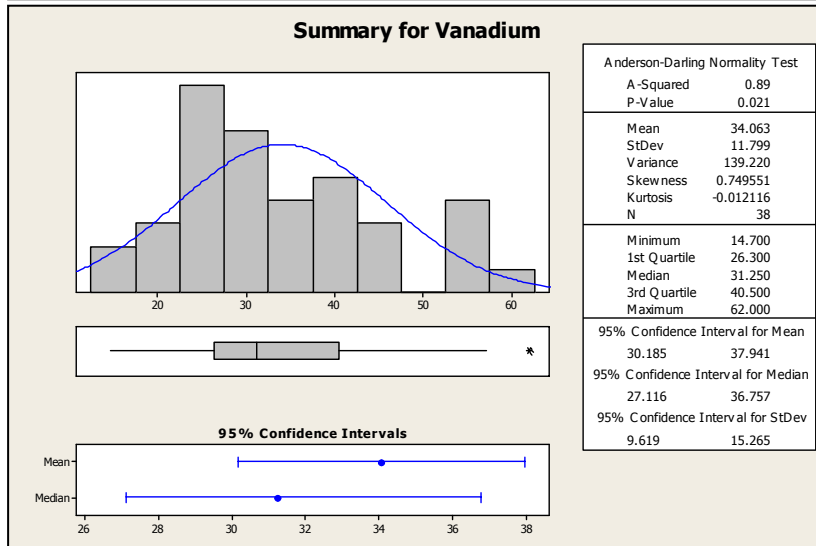
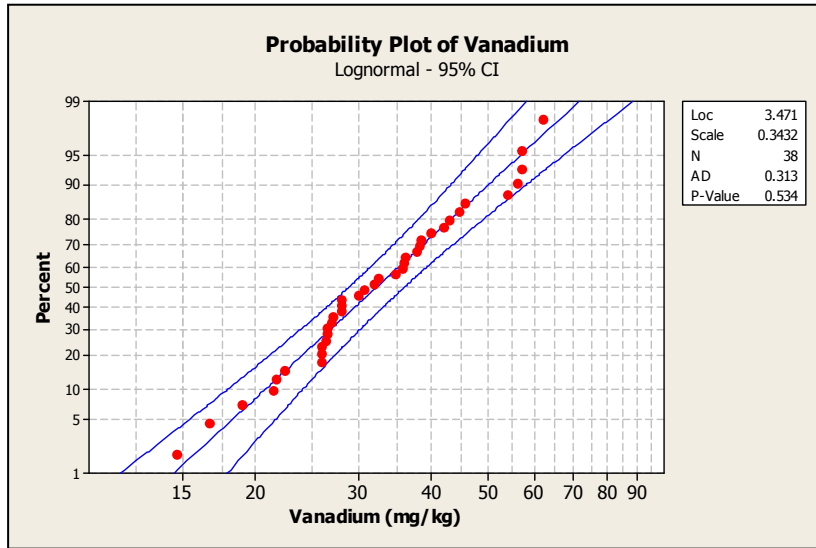
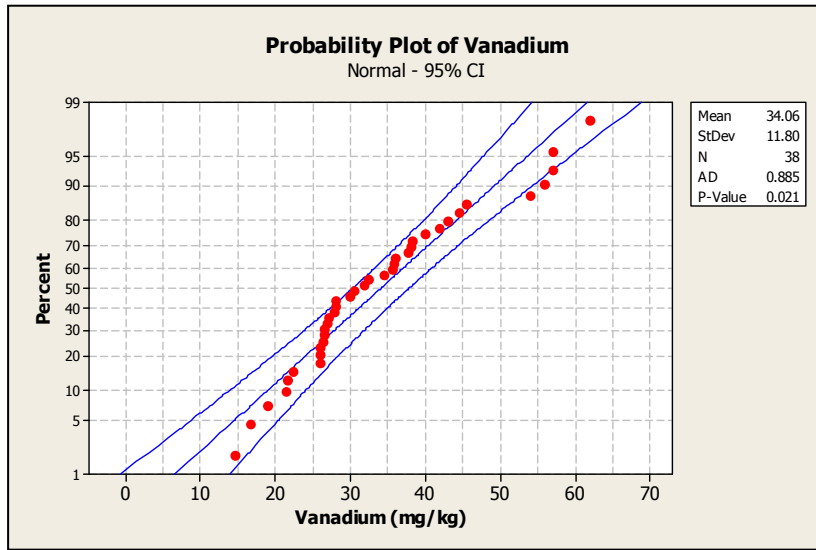
Thallium

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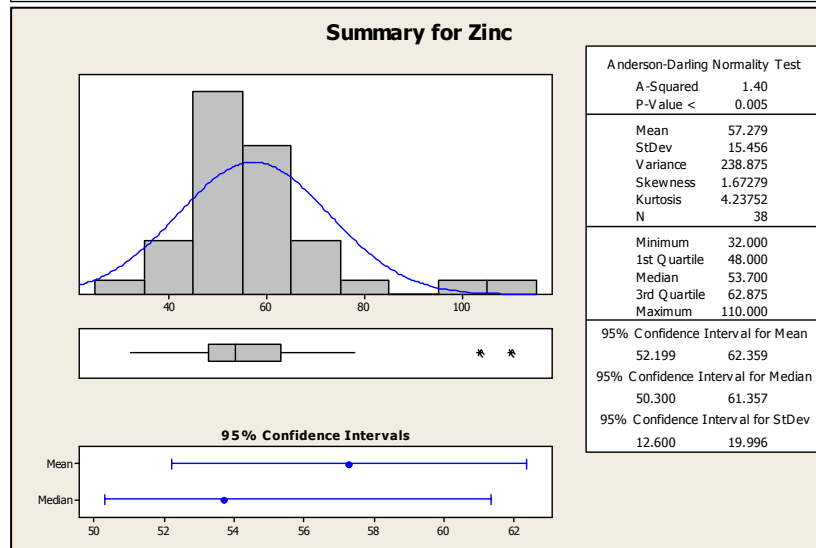
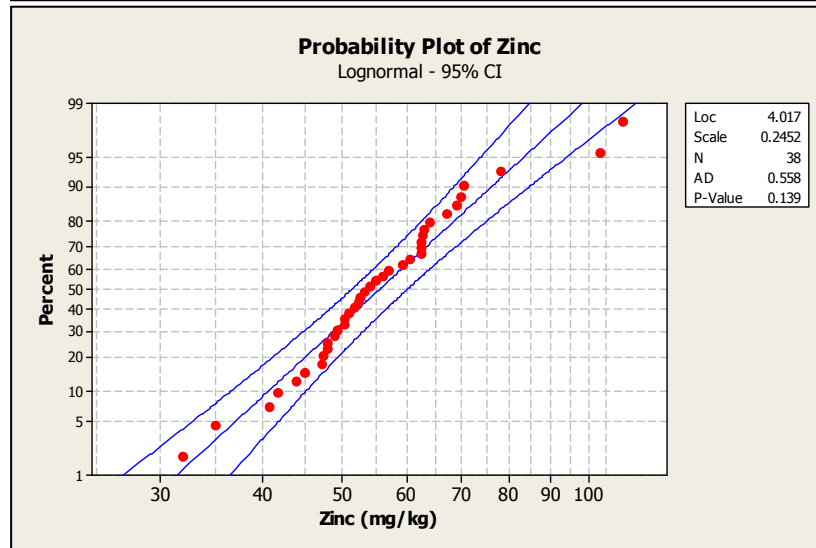
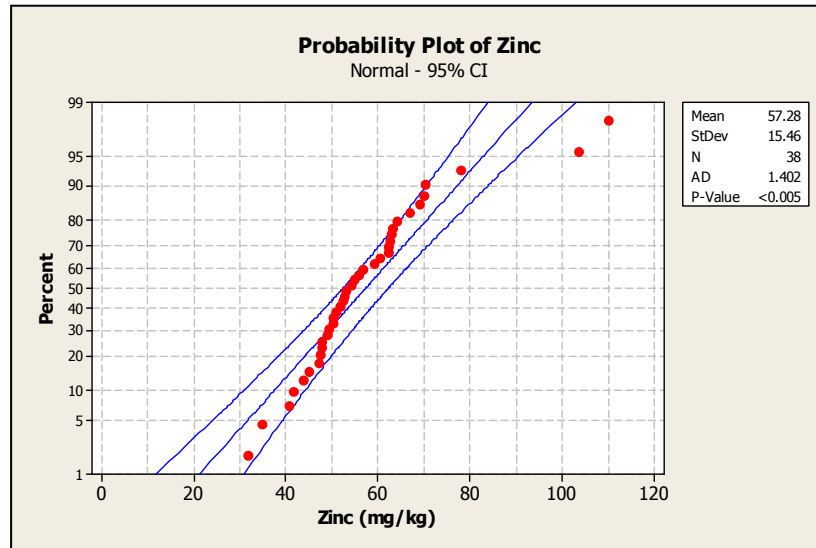
Vanadium

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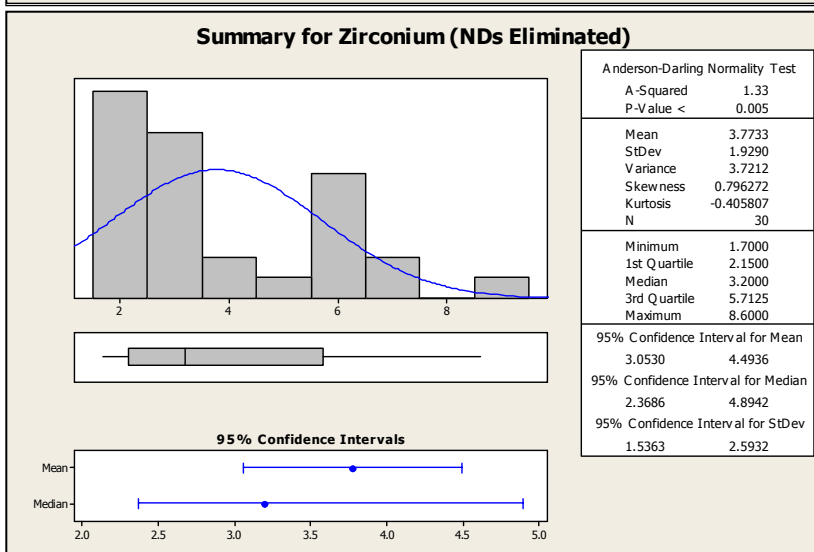
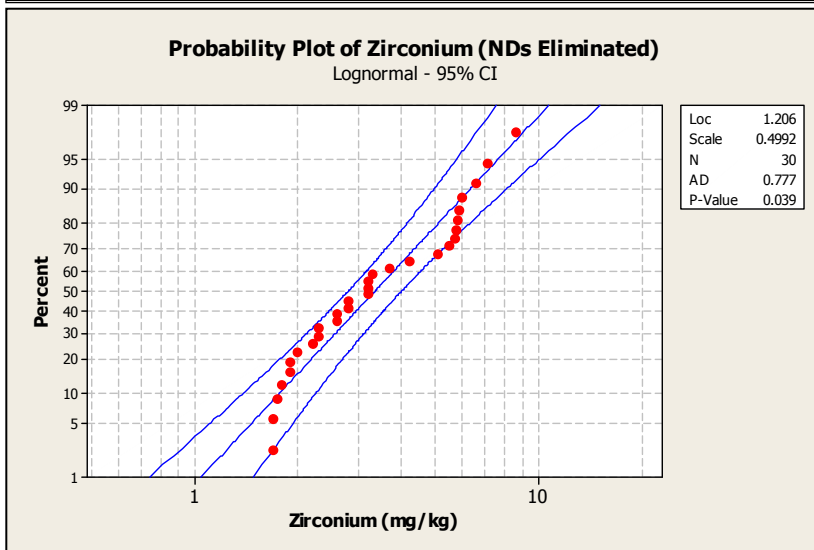
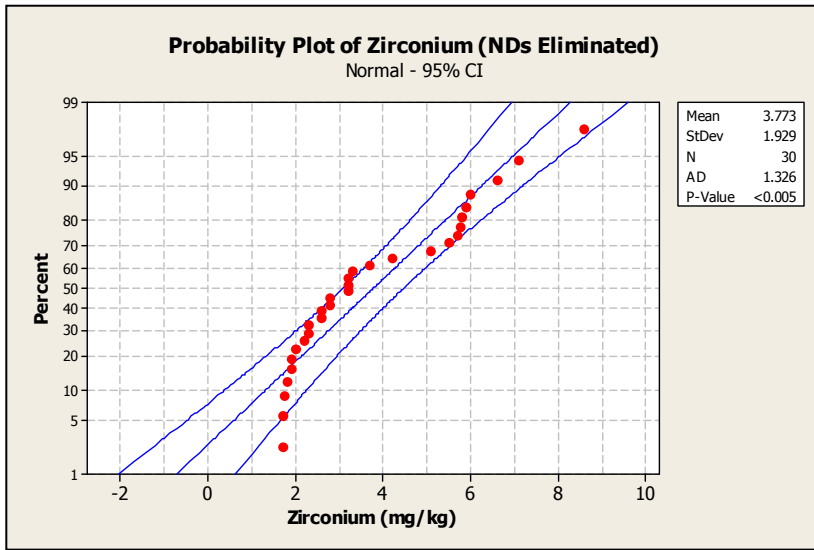
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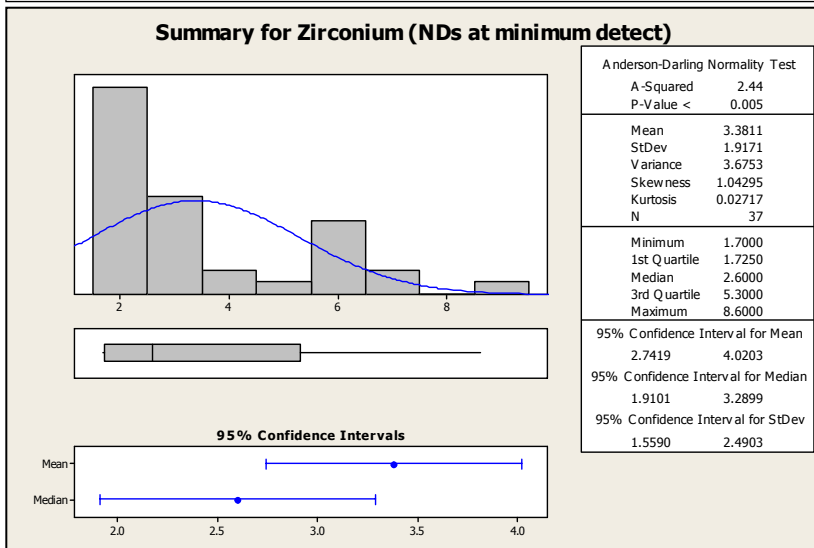
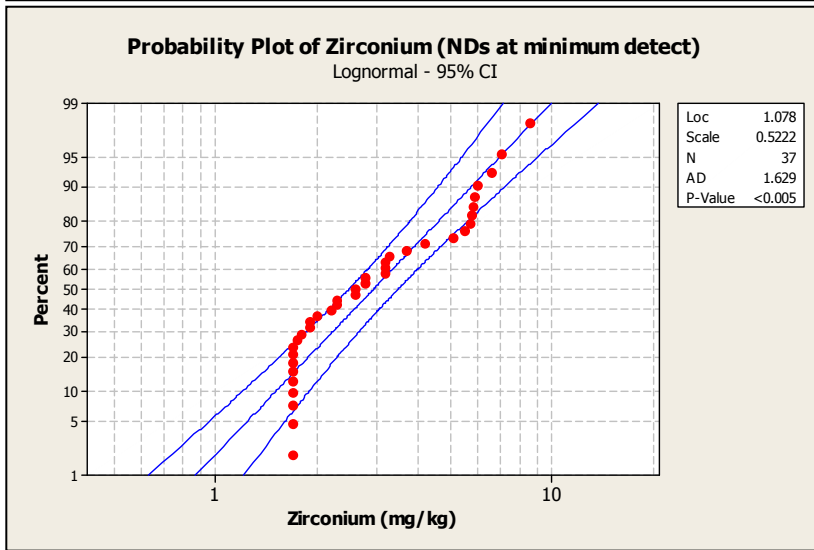
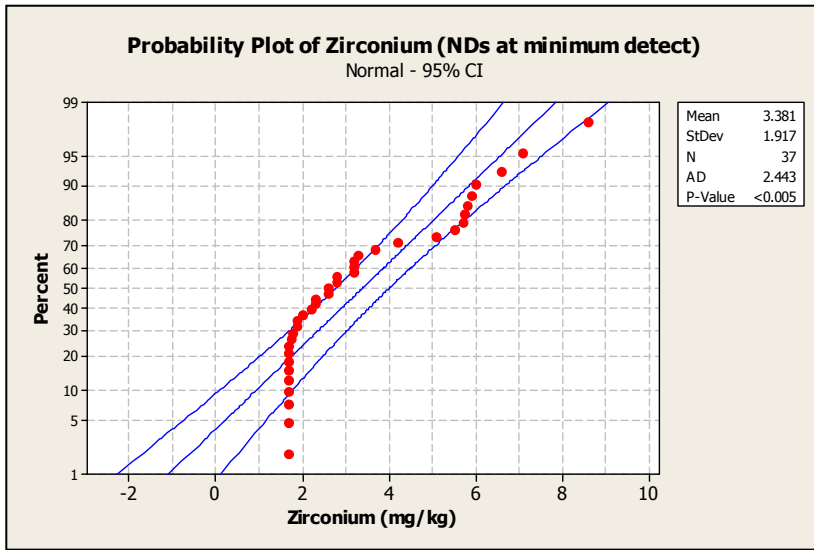
Zirconium

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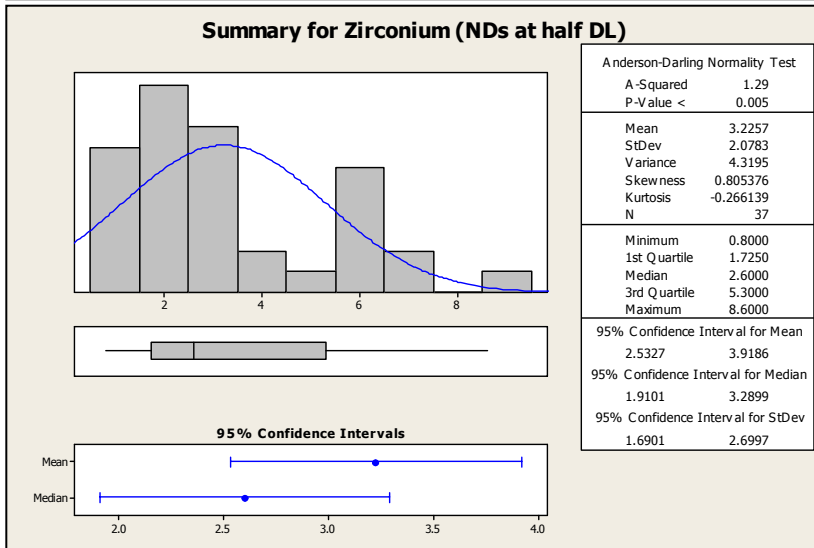
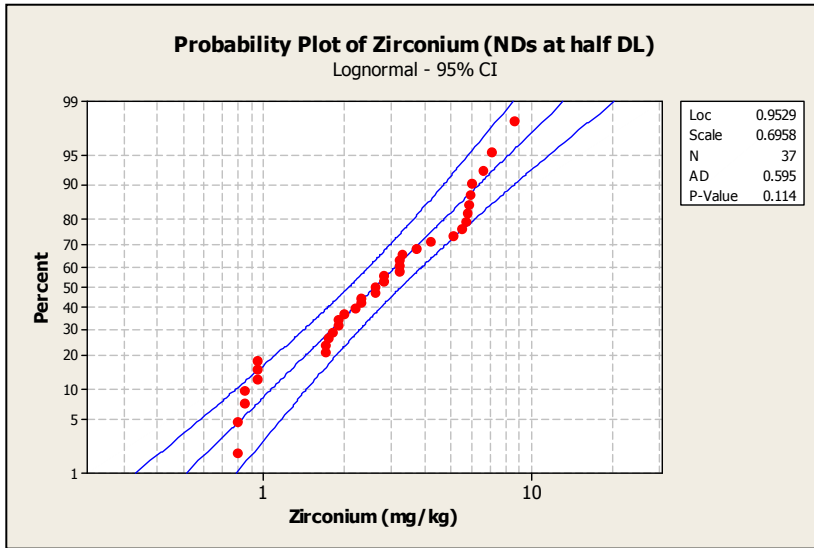
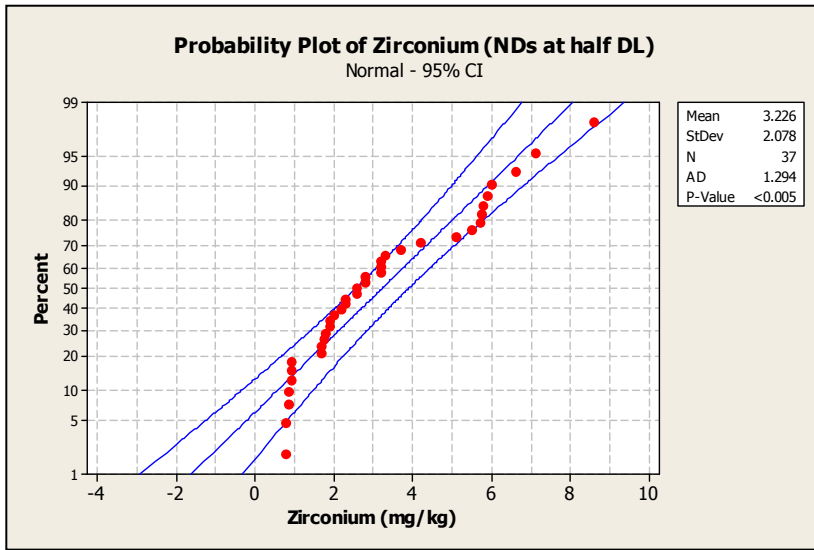
Zirconium

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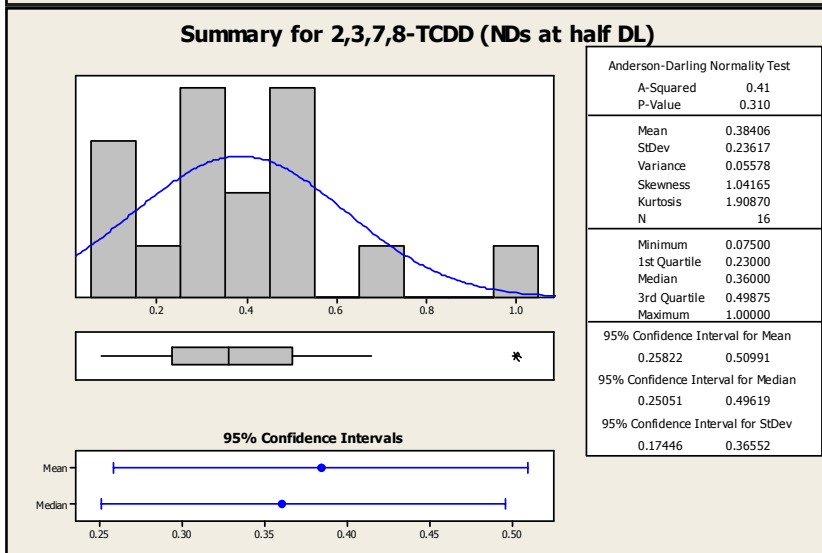
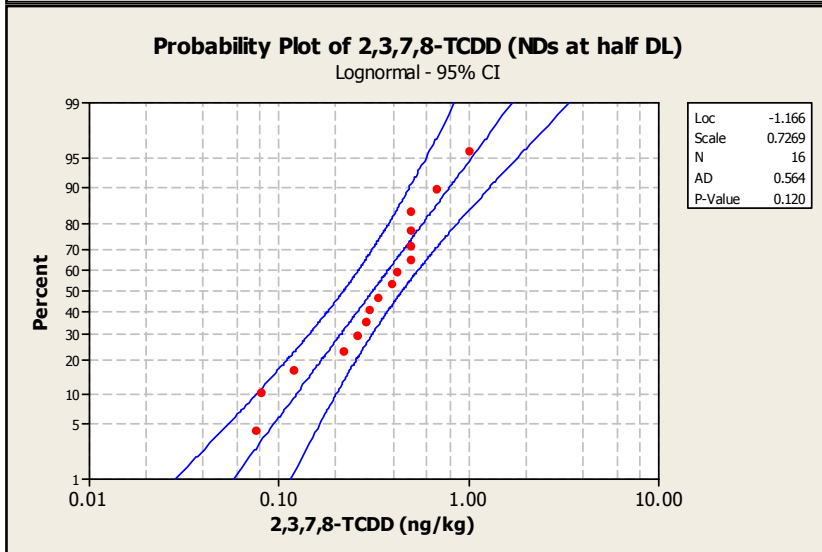
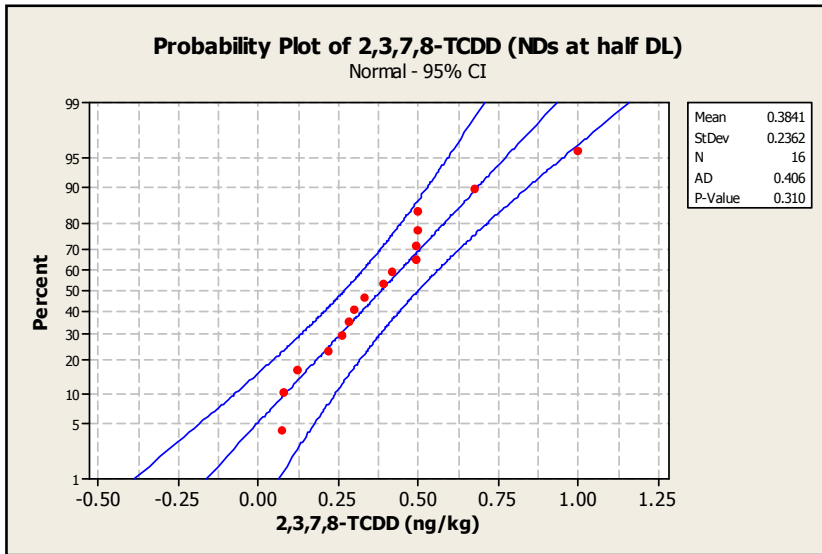
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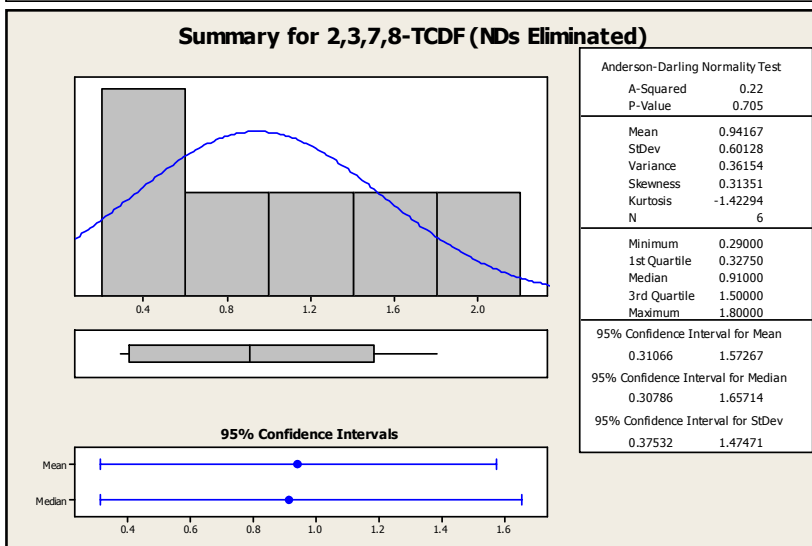
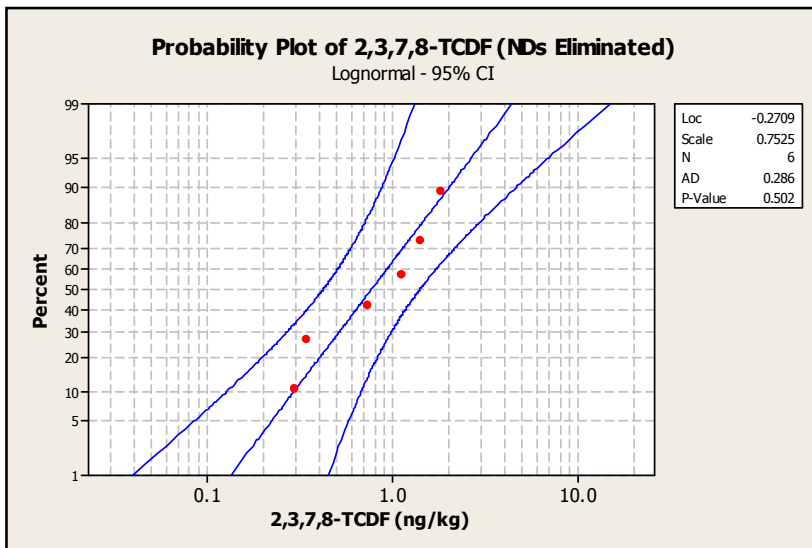
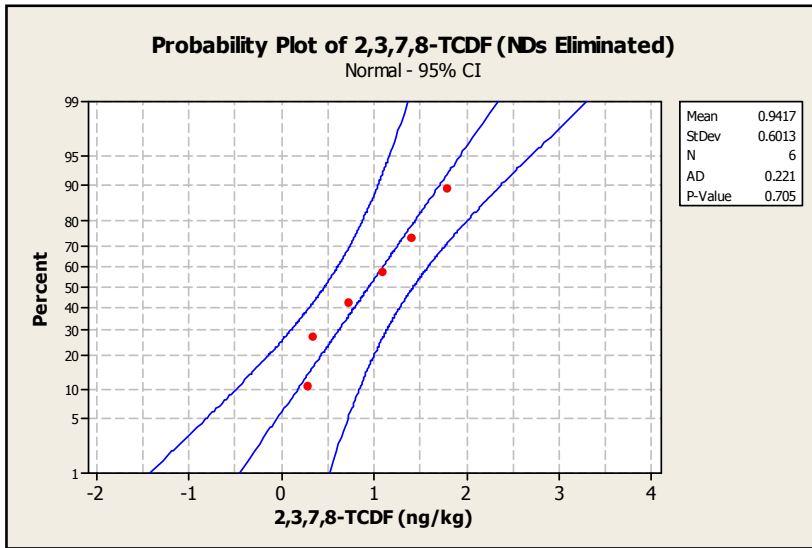


2,3,7,8-TCDD

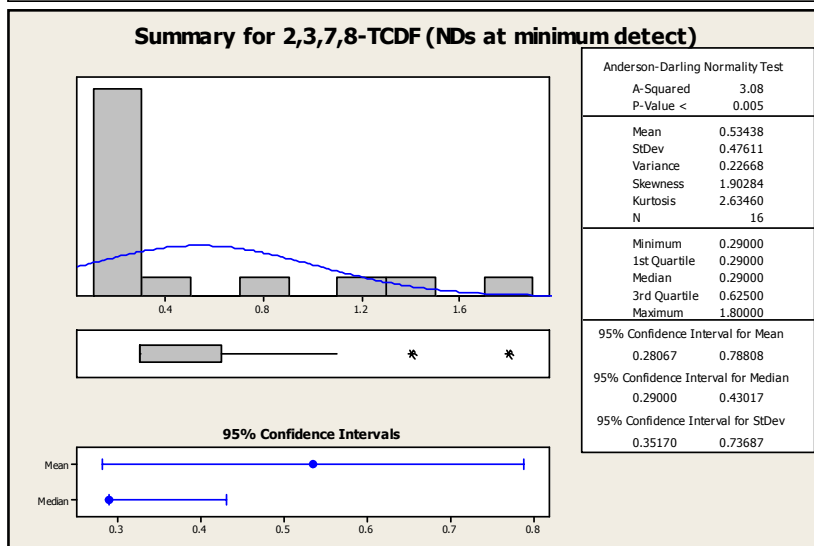
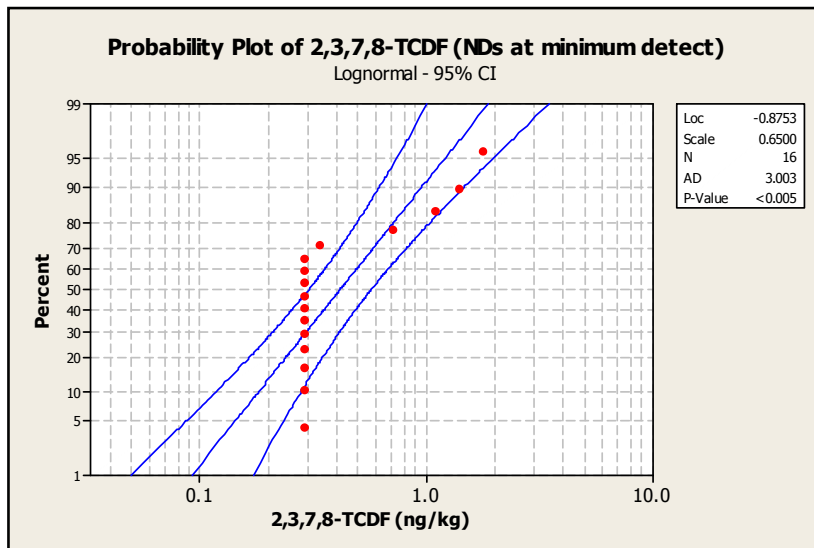
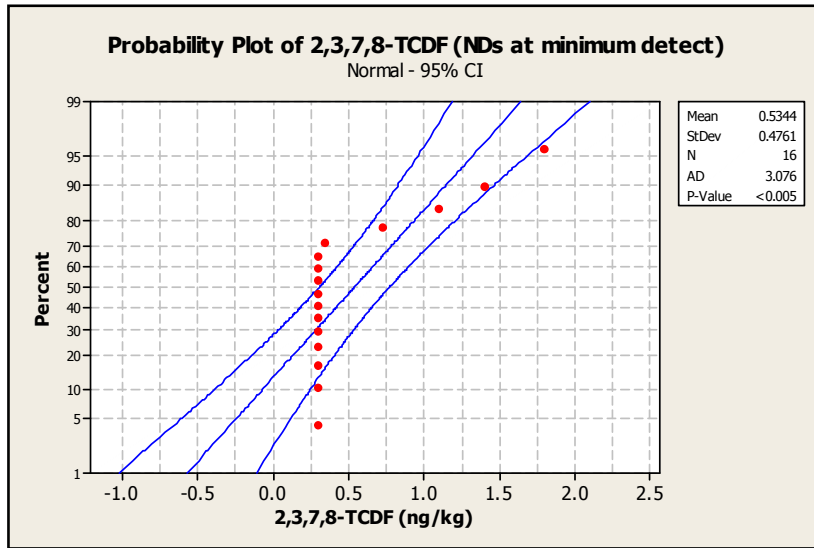
(Page 1 of 1)



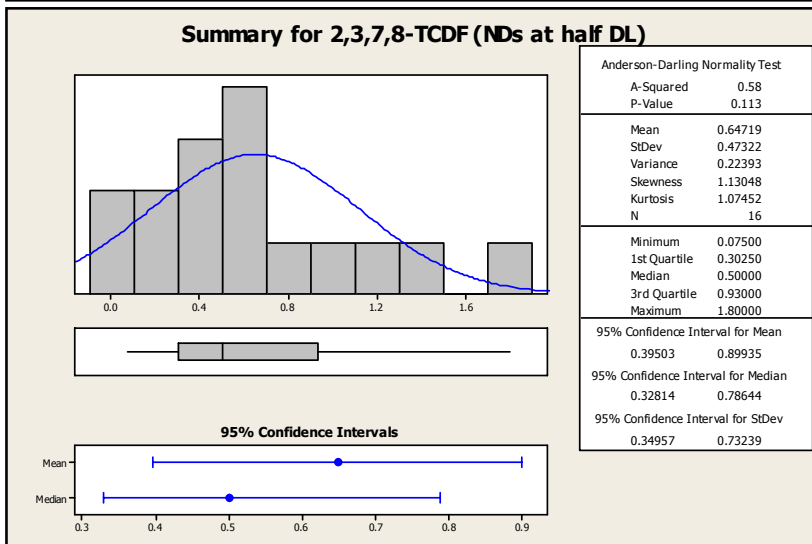
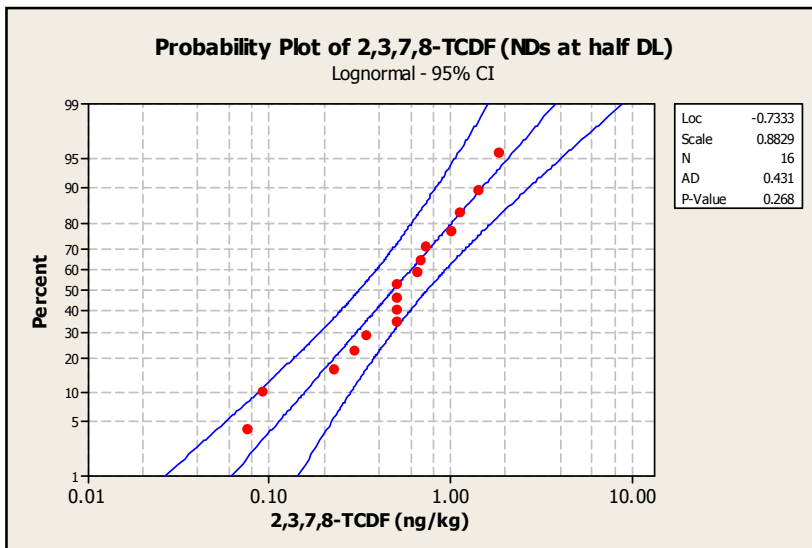
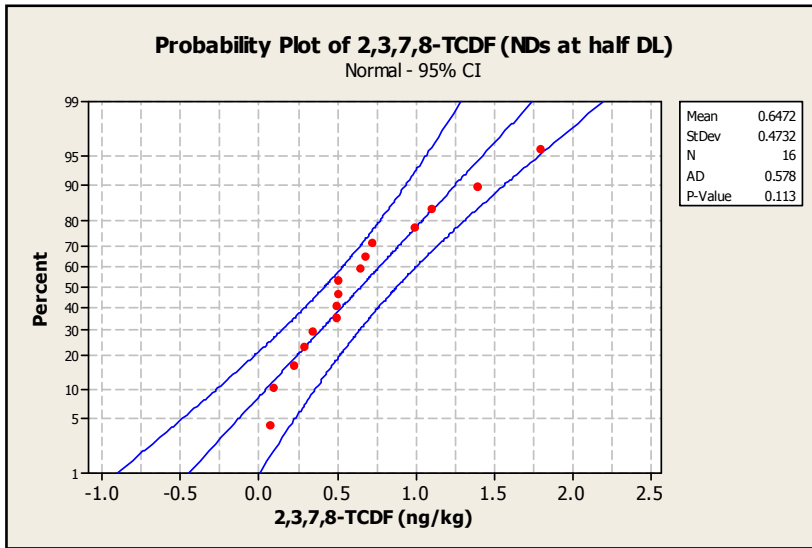
2,3,7,8-TCDF (Page 1 of 3)



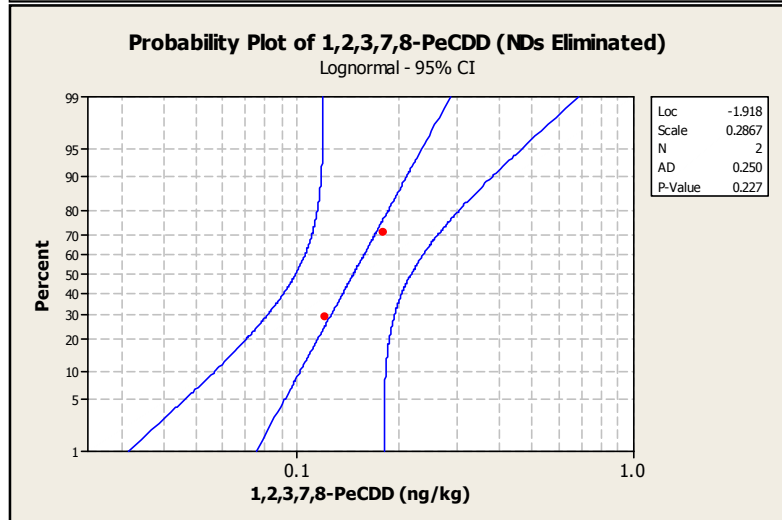
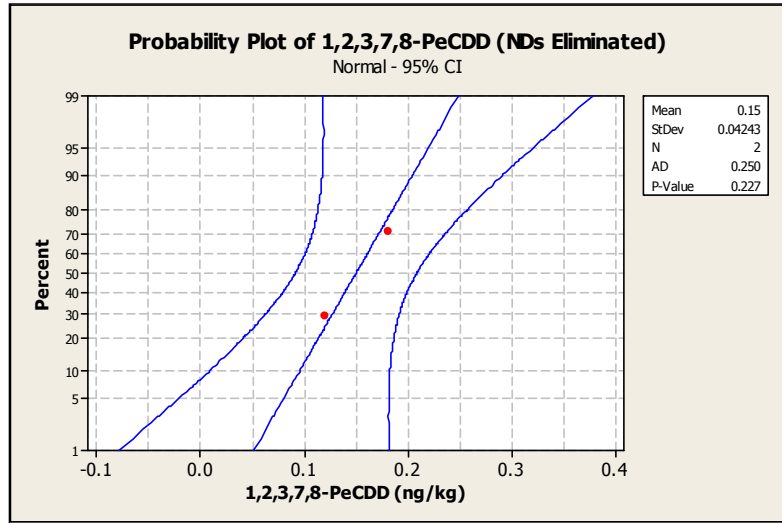
2,3,7,8-TCDF (Page 2 of 3)



2,3,7,8-TCDF (Page 3 of 3)



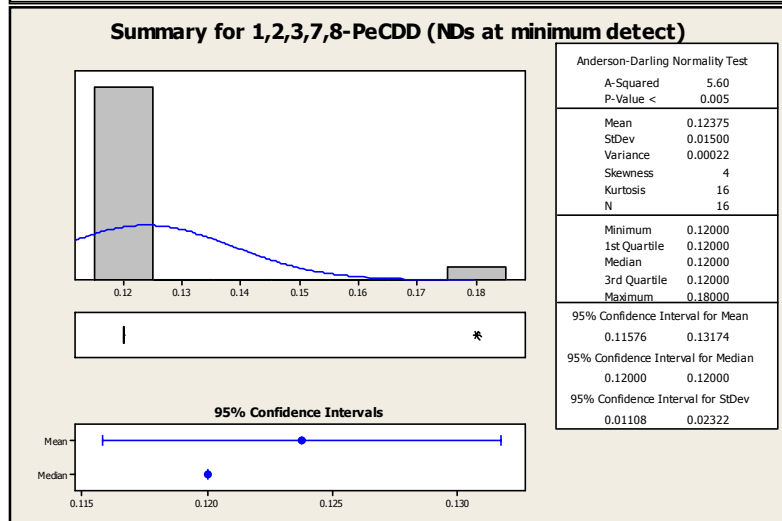
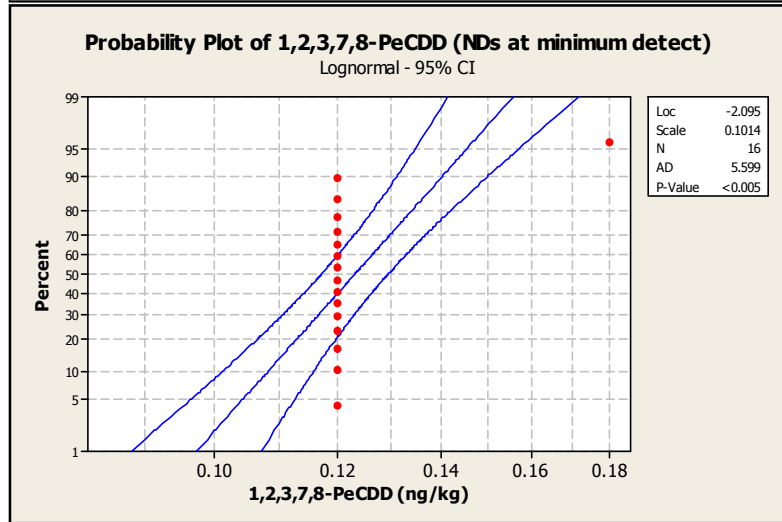
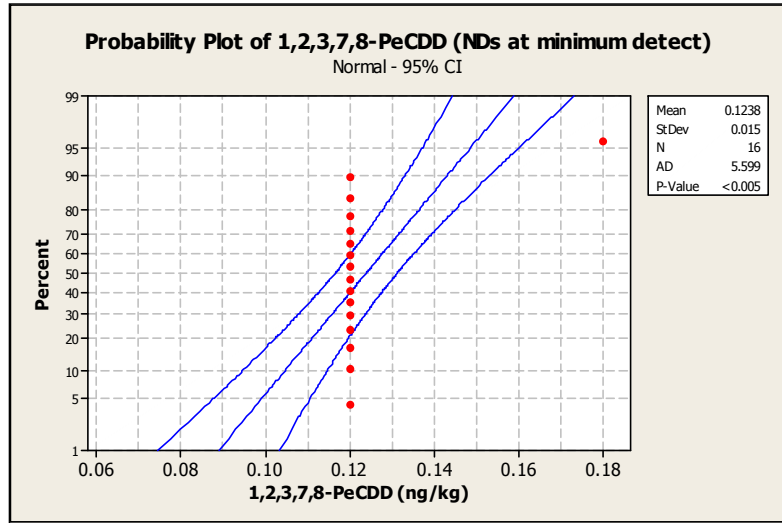
1,2,3,7,8-PeCDD
(Page 1 of 3)



GRAPHICAL SUMMARY NOT PREPARED FOR
"NDs ELIMINATED" DUE TO INSUFFICIENT
NUMBER OF DETECTS

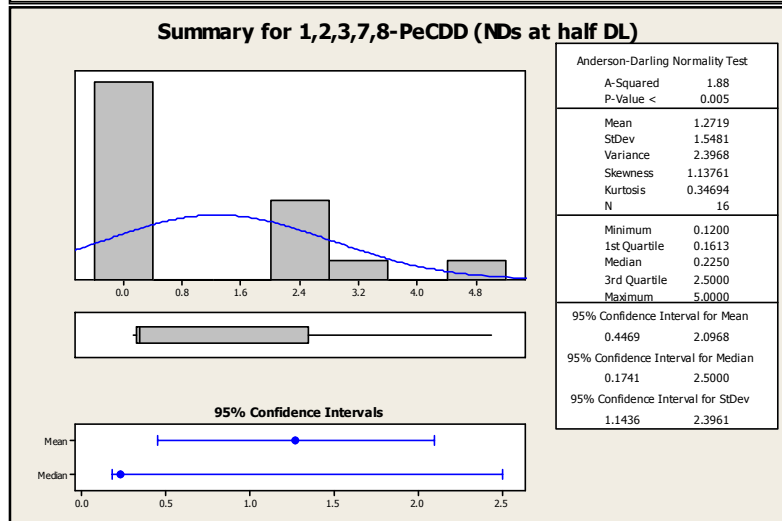
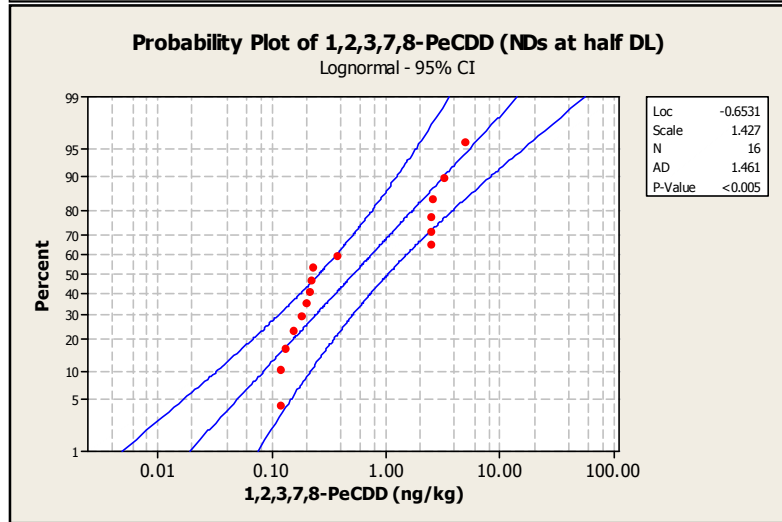
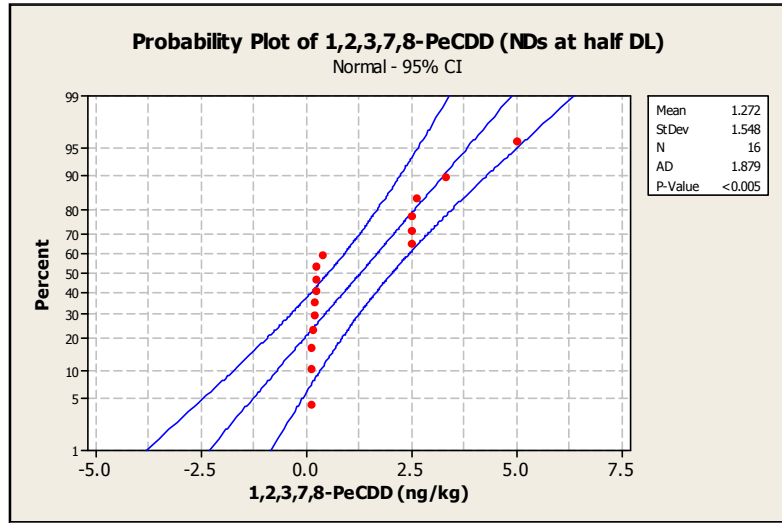
1,2,3,7,8-PeCDD

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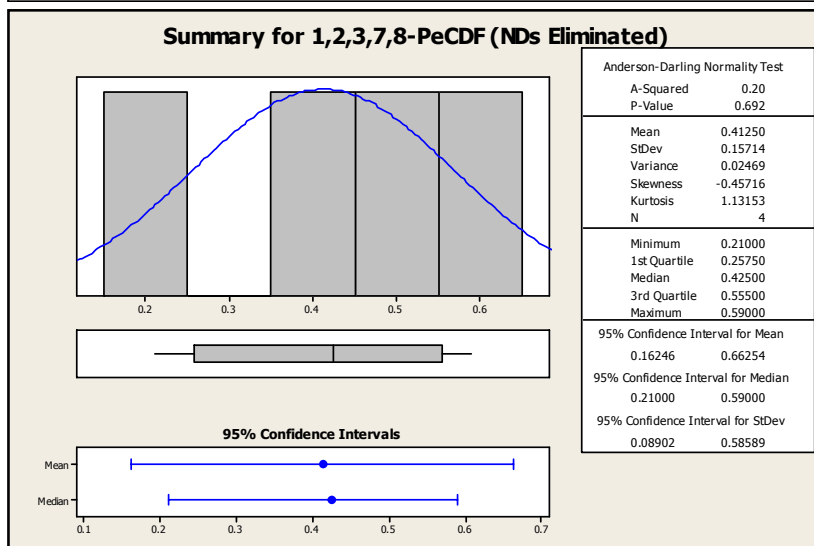
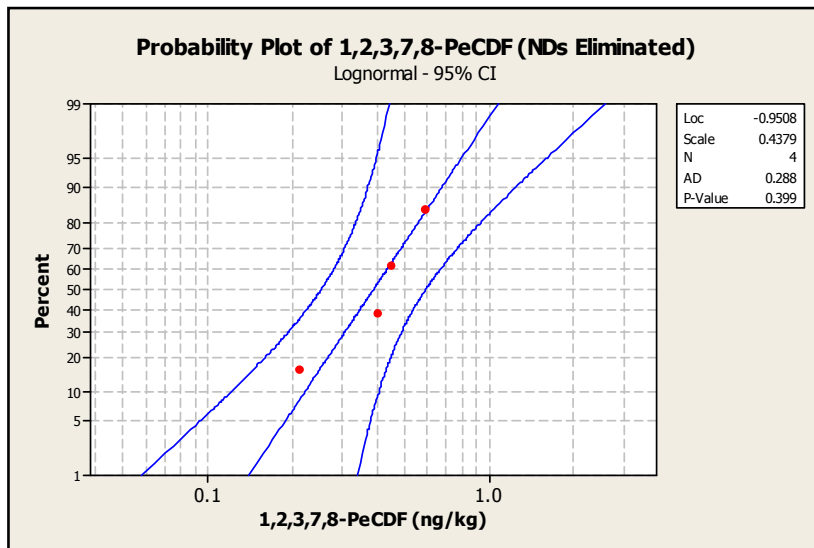
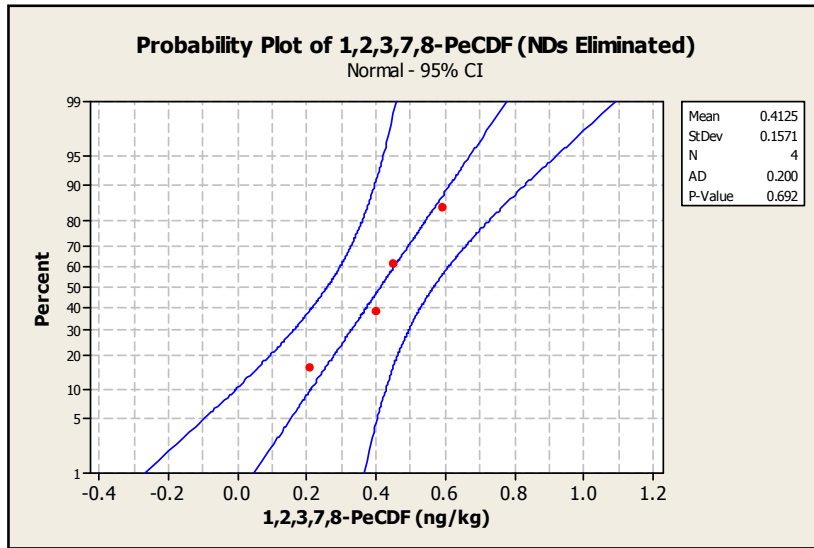


1,2,3,7,8-PeCDD

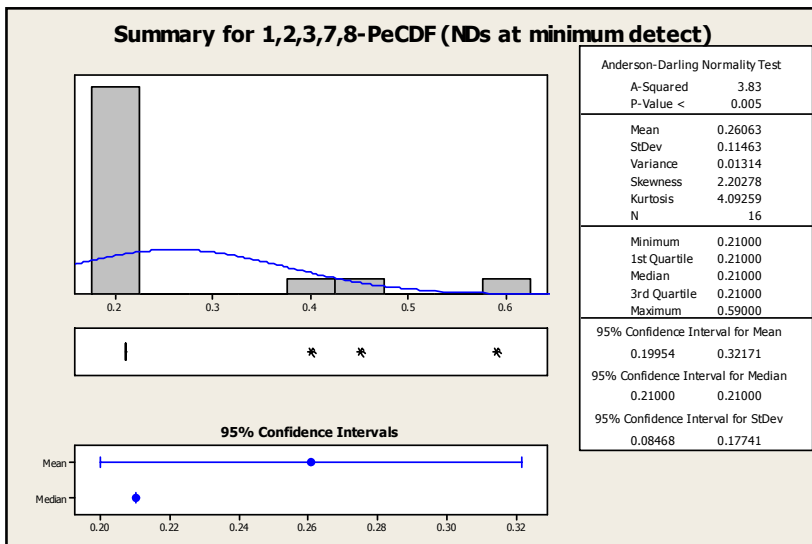
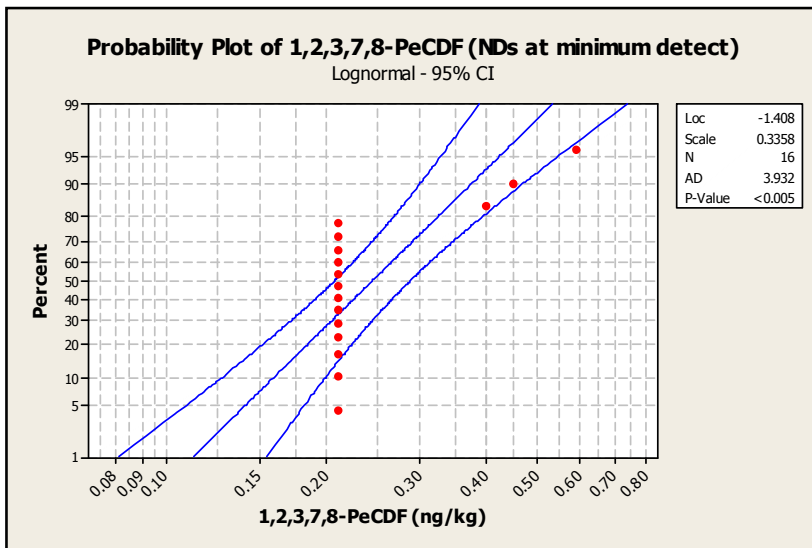
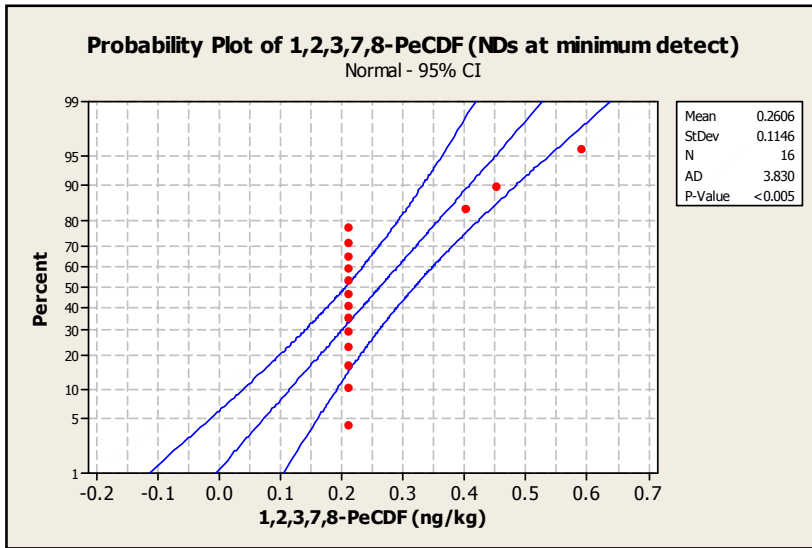
(Page 3 of 3)



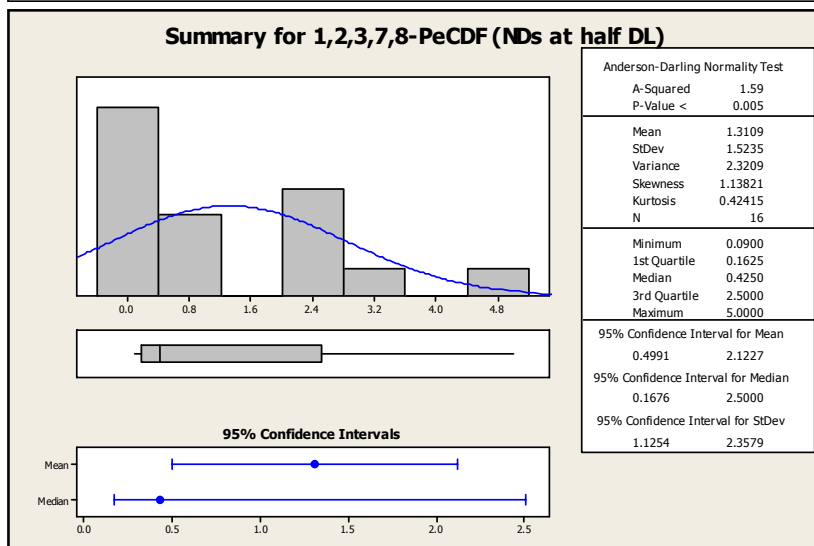
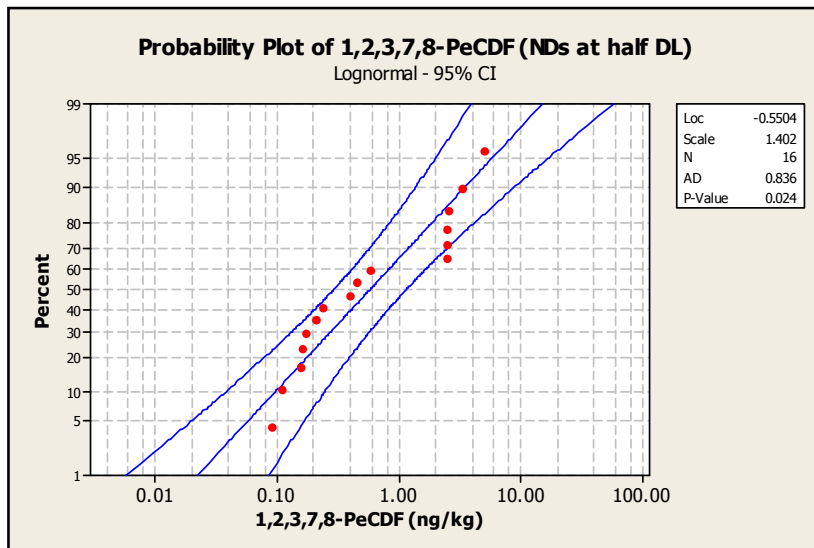
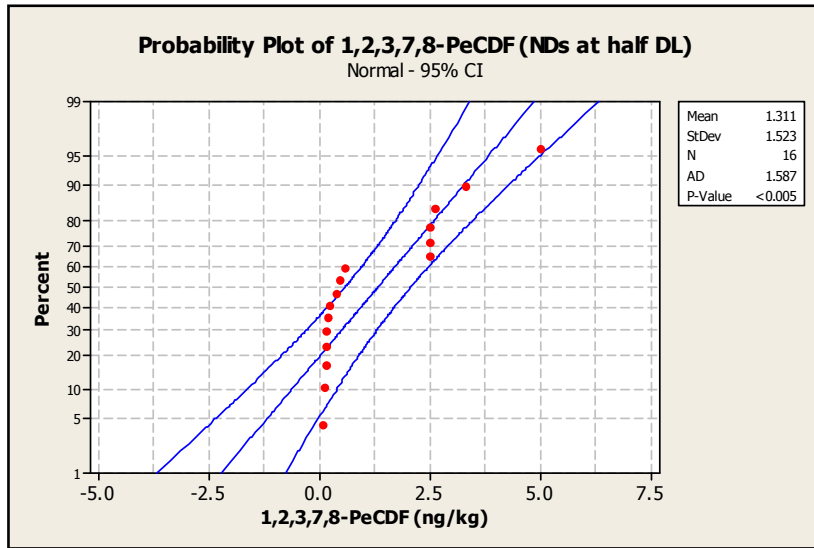
1,2,3,7,8-PeCDF (Page 1 of 3)



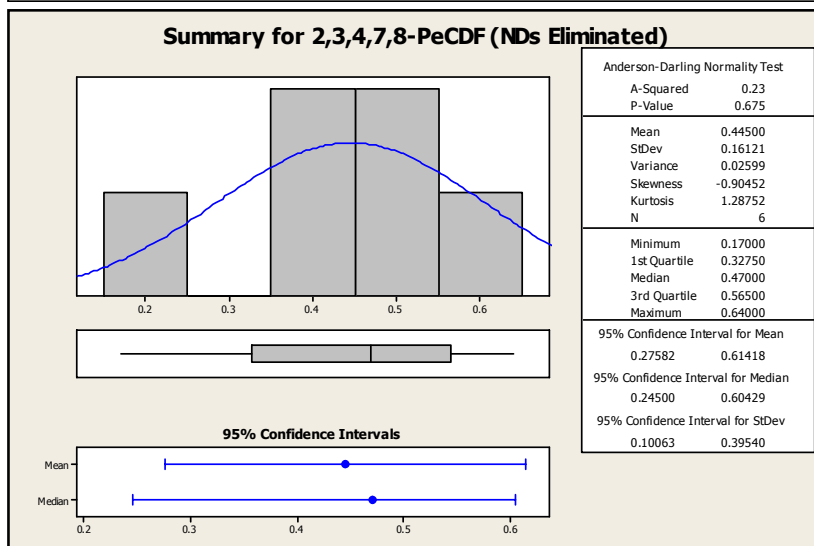
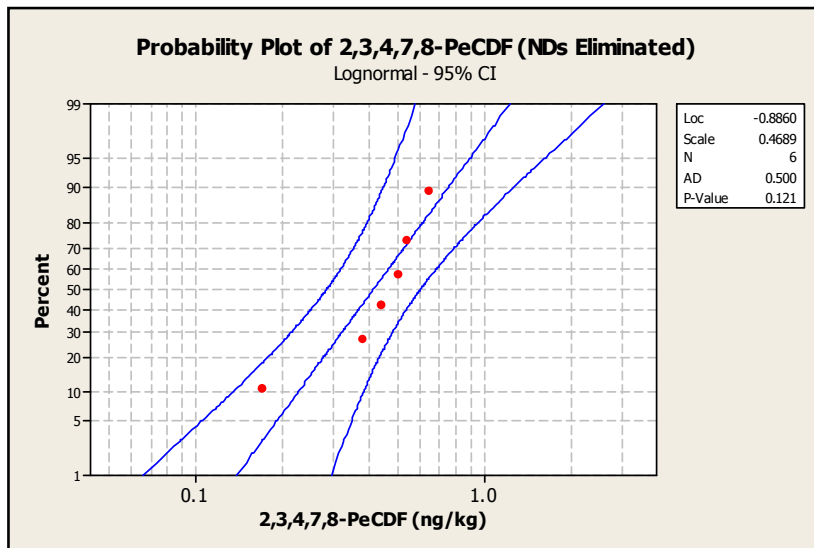
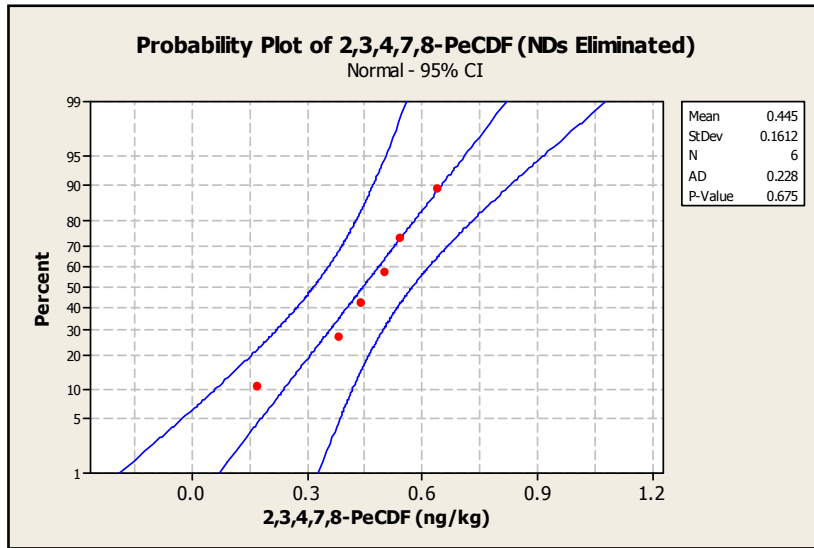
1,2,3,7,8-PeCDF (Page 2 of 3)



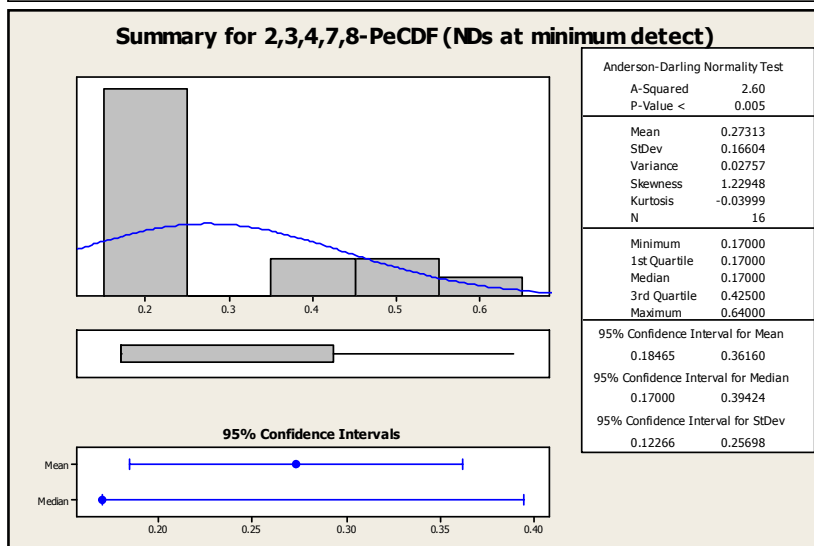
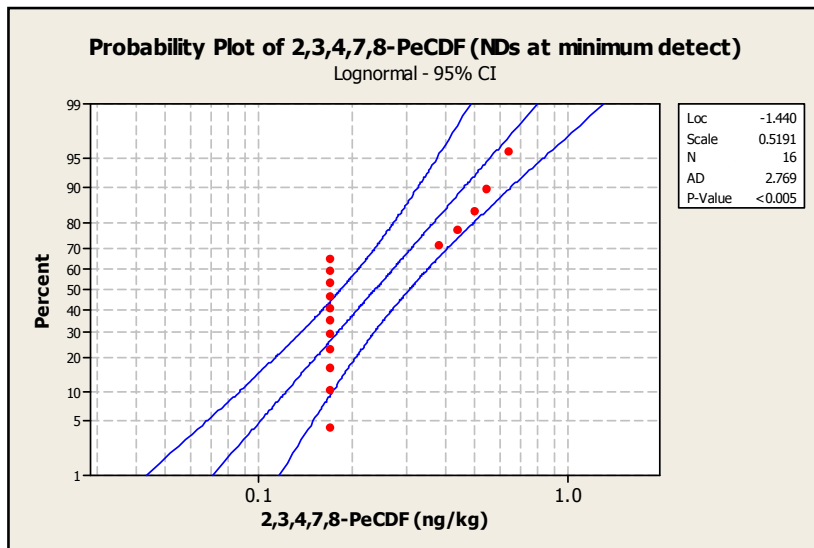
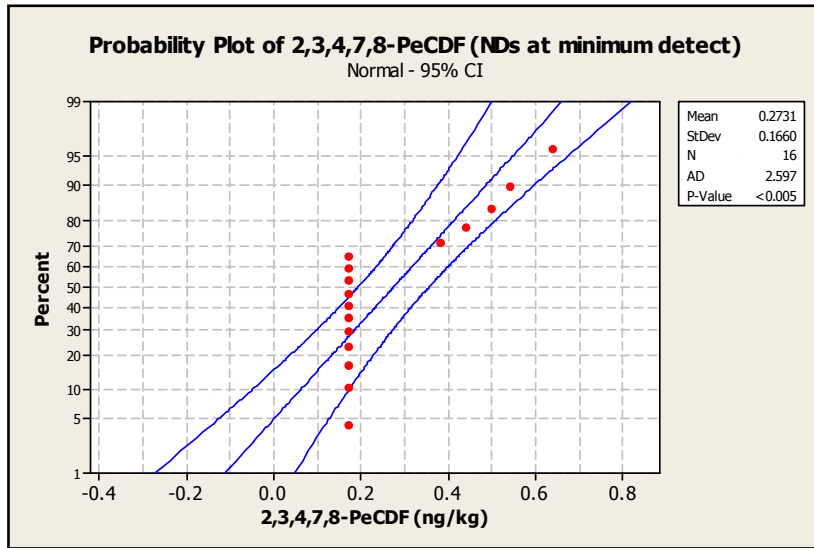
1,2,3,7,8-PeCDF (Page 3 of 3)



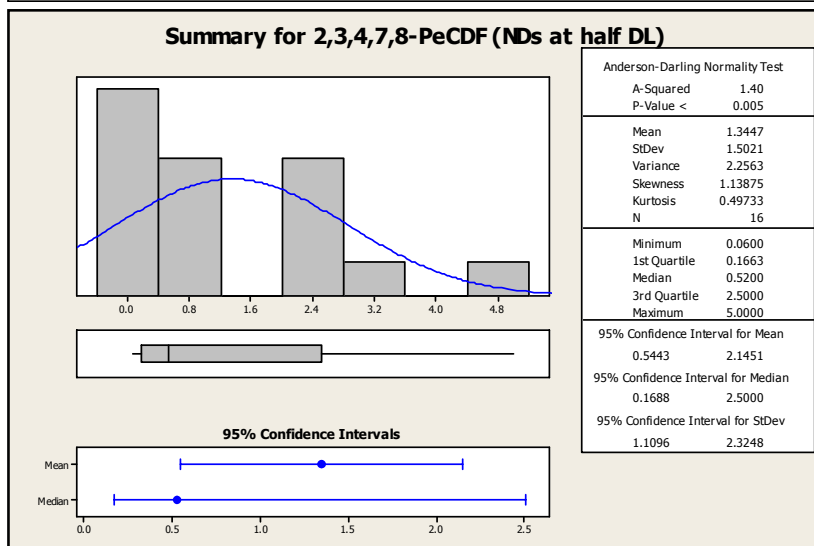
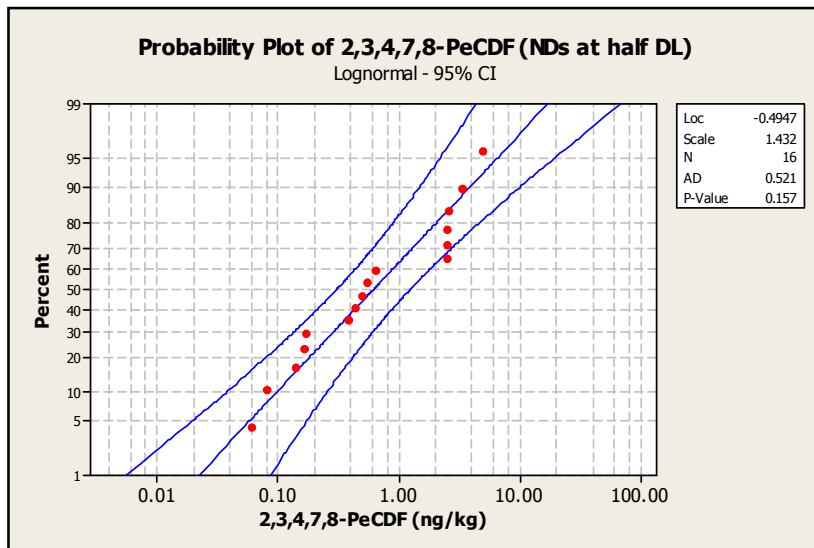
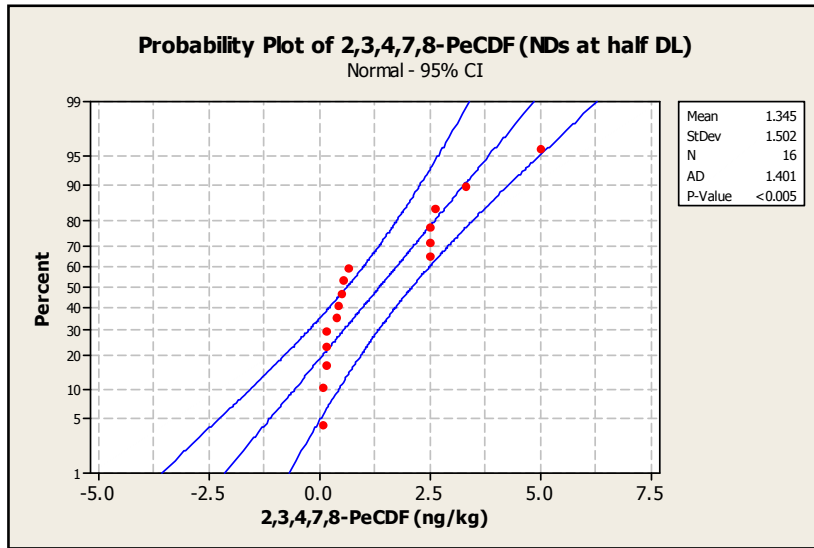
2,3,4,7,8-PeCDF (Page 1 of 3)



2,3,4,7,8-PeCDF (Page 2 of 3)

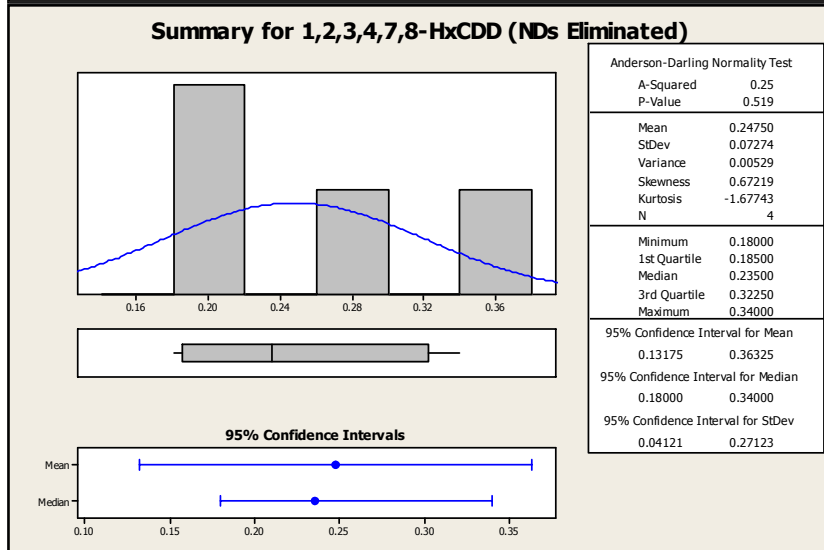
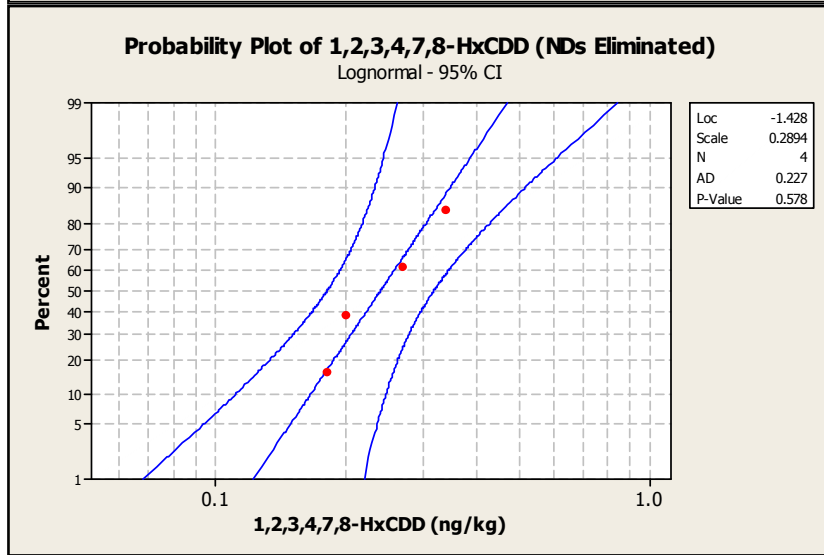
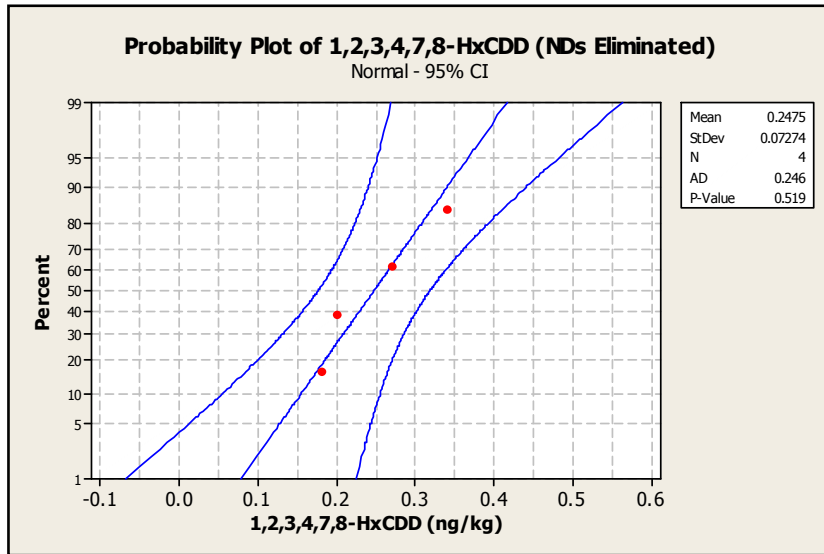


2,3,4,7,8-PeCDF (Page 3 of 3)



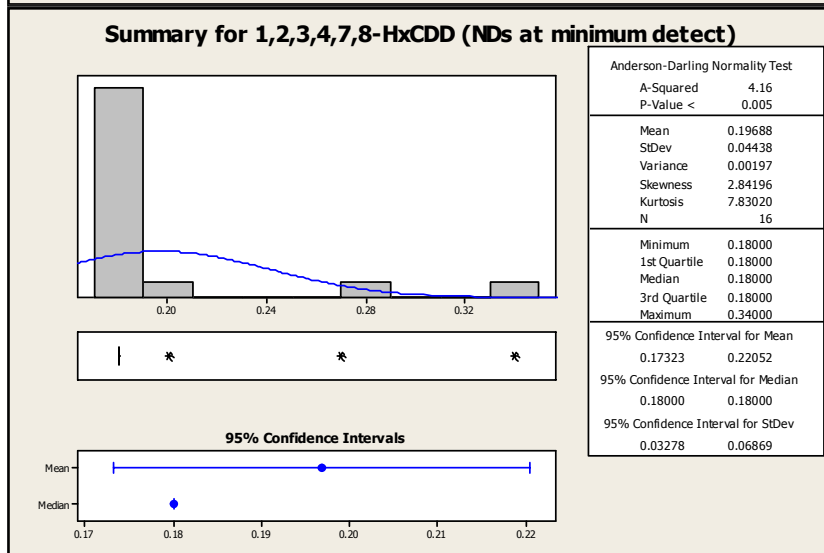
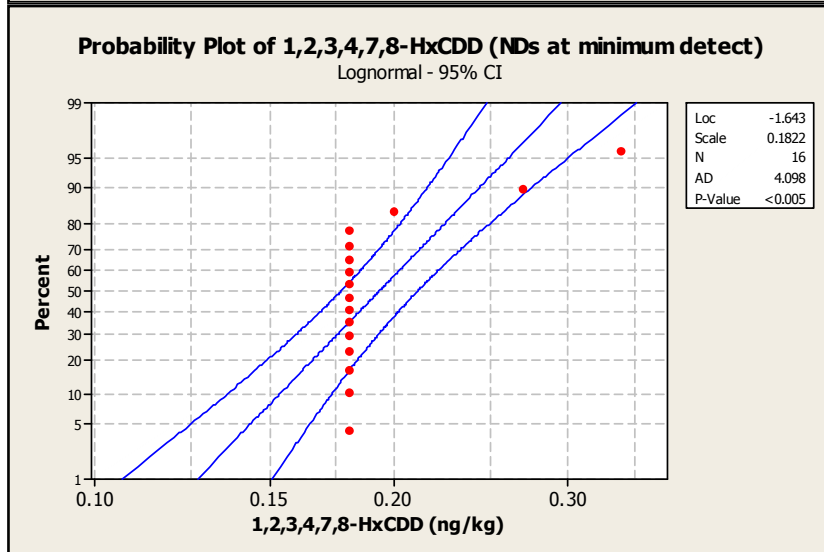
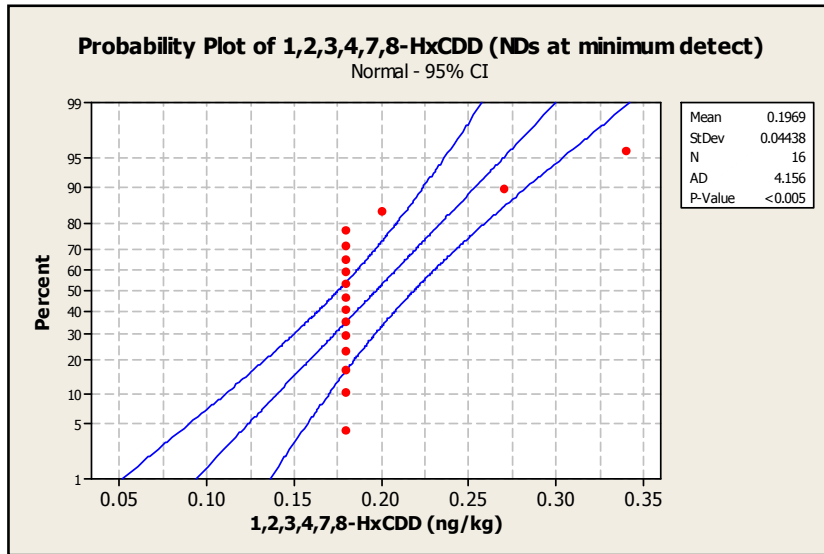
1,2,3,4,7,8-HxCDD

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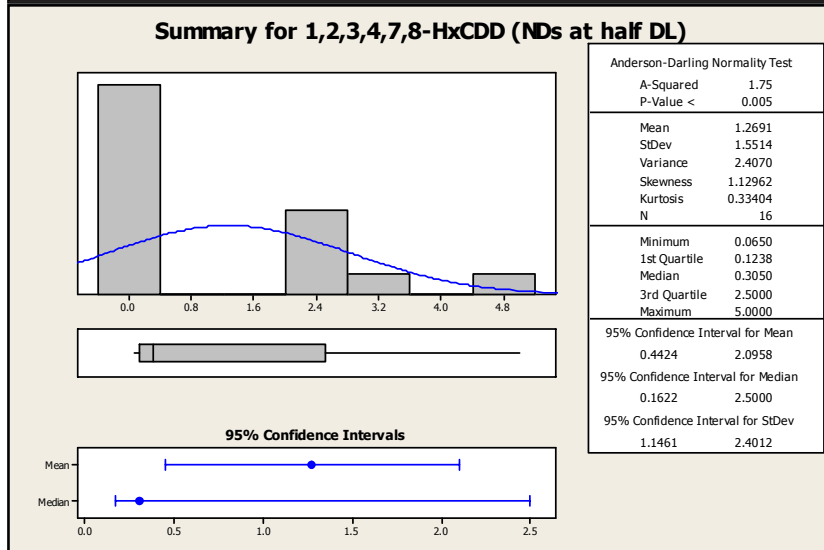
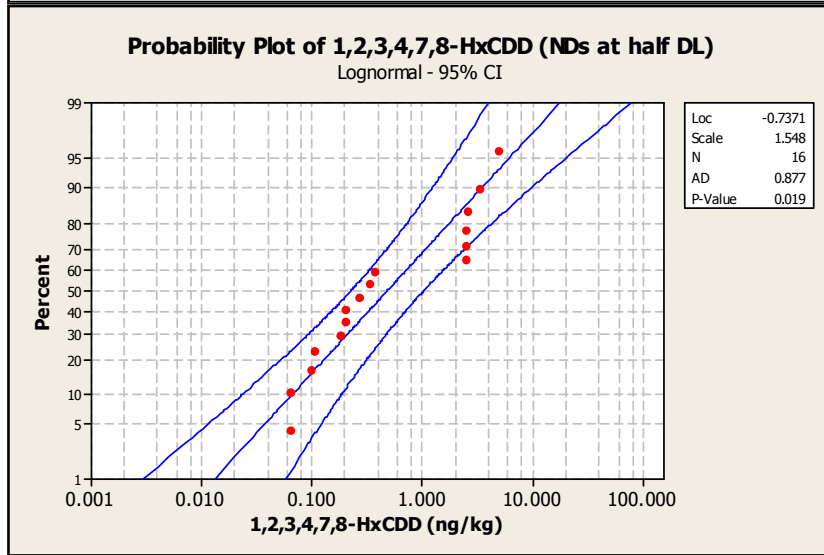
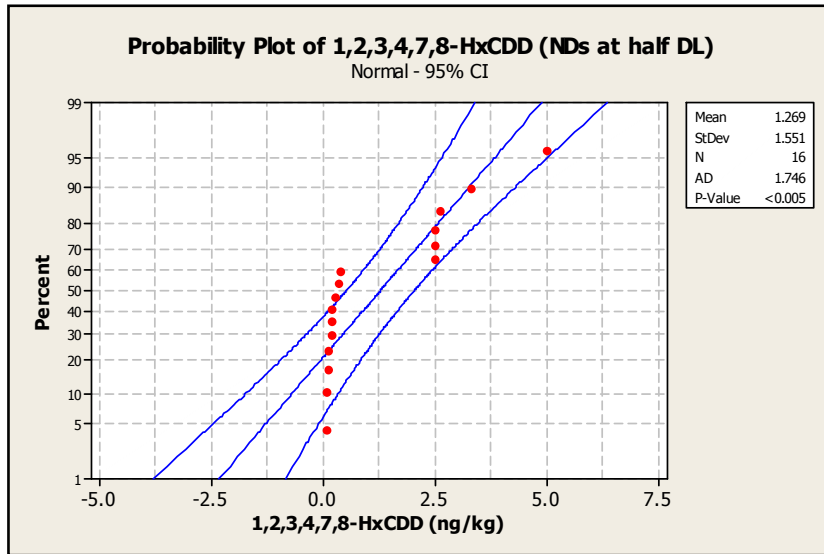
1,2,3,4,7,8-HxCDD

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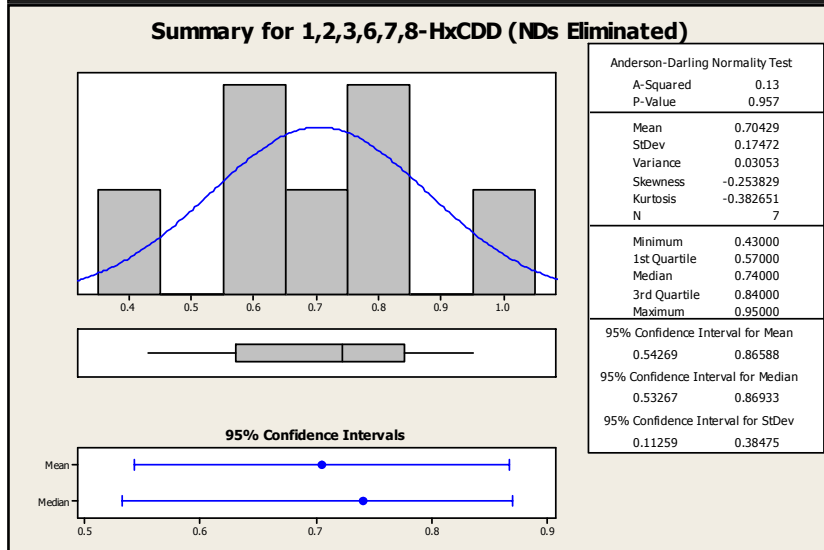
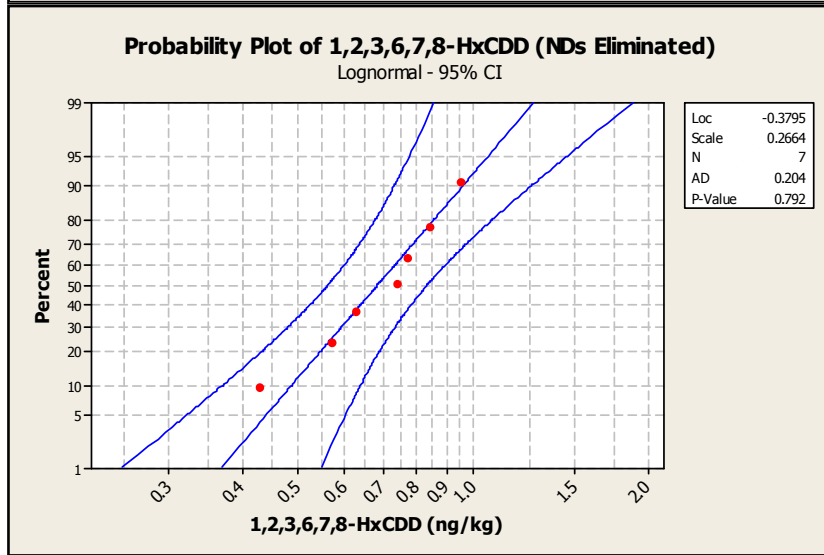
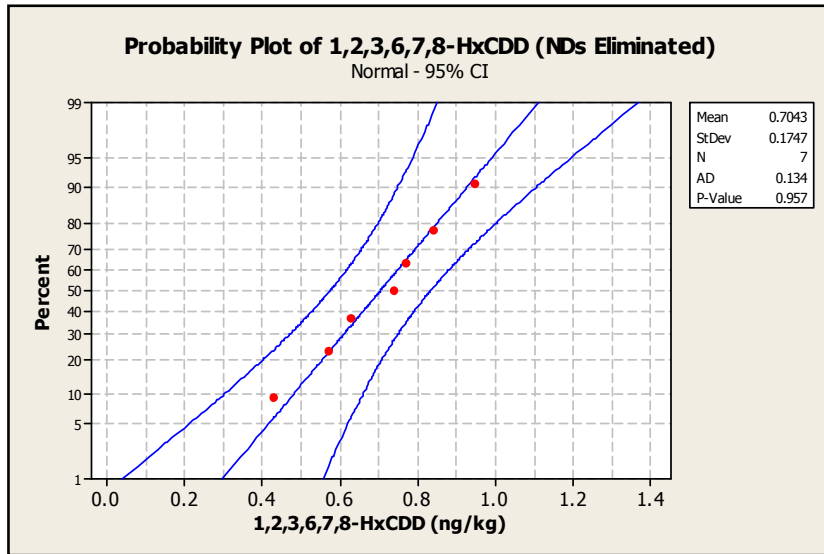
1,2,3,4,7,8-HxCDD

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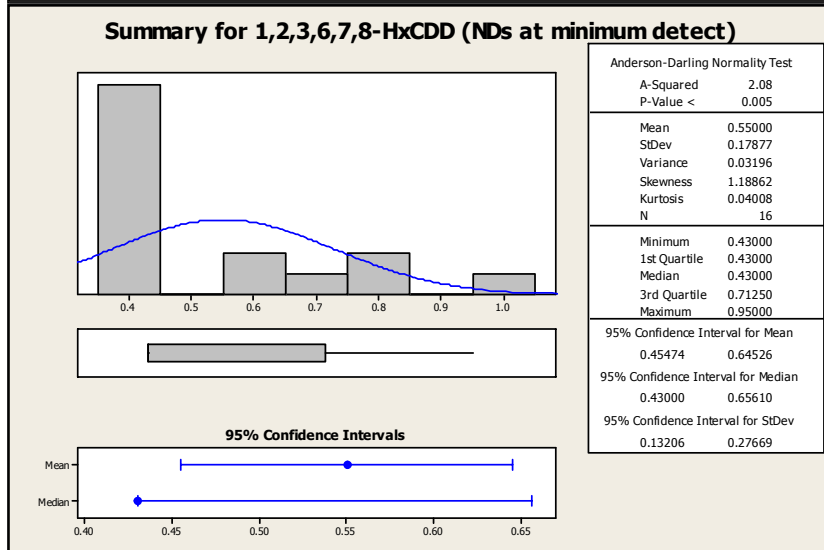
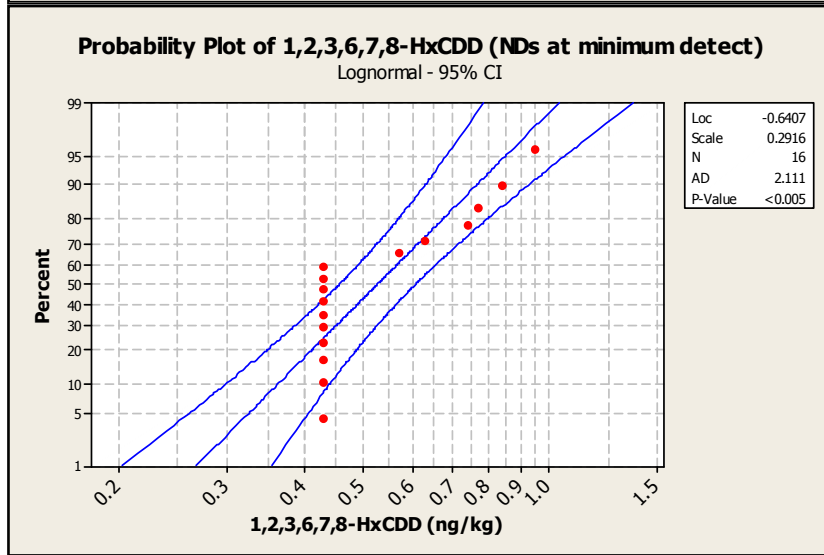
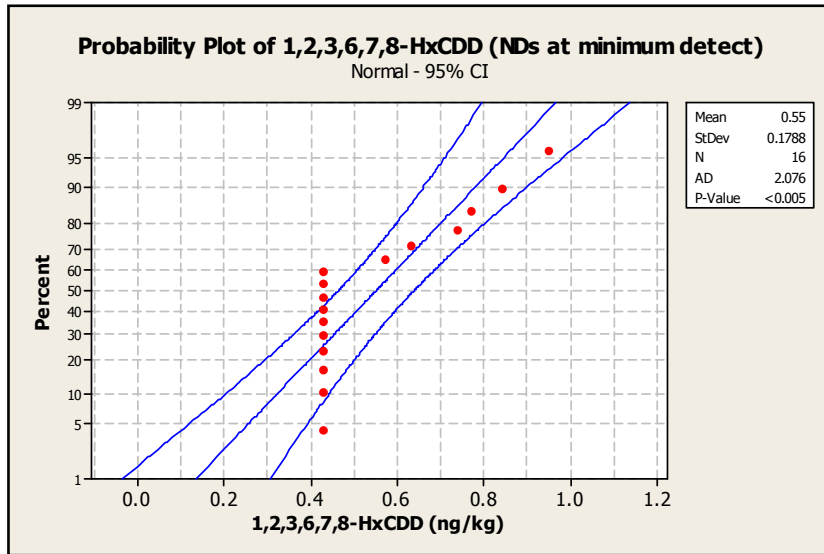
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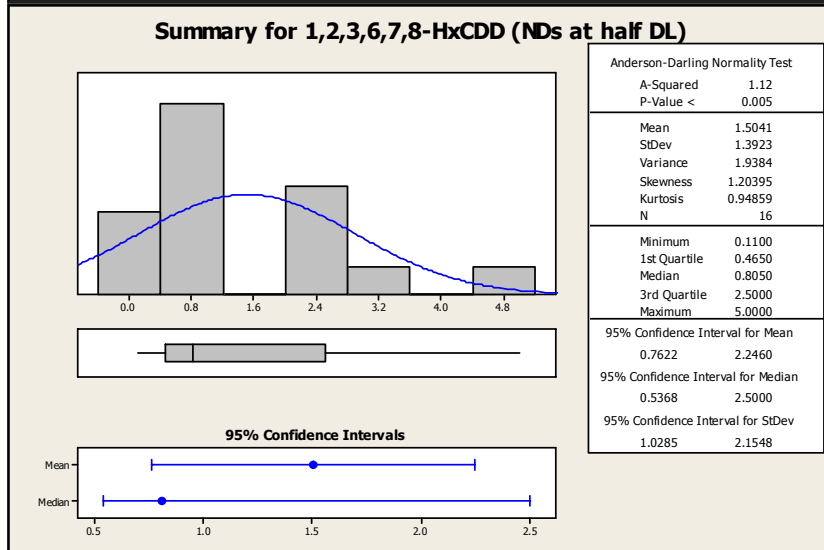
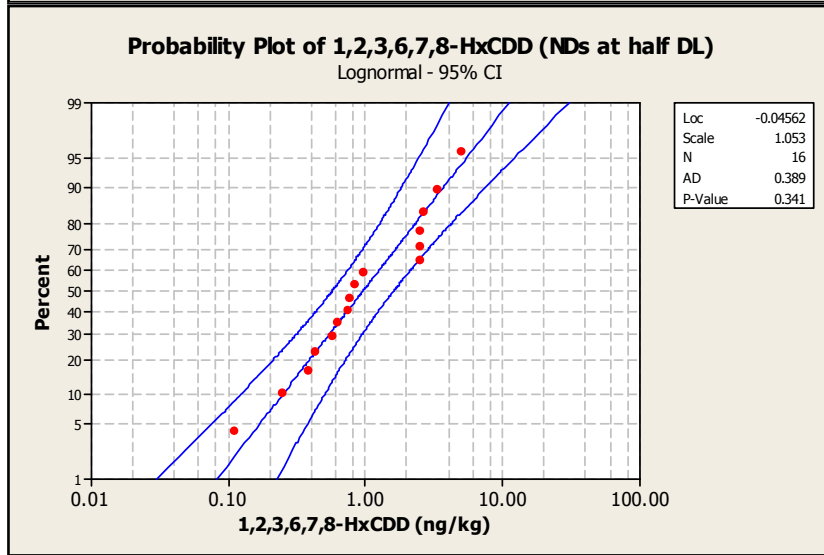
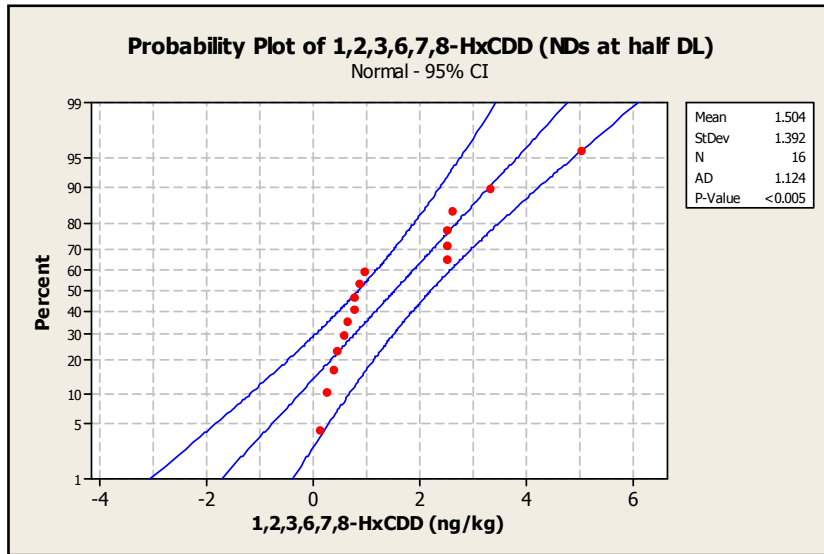
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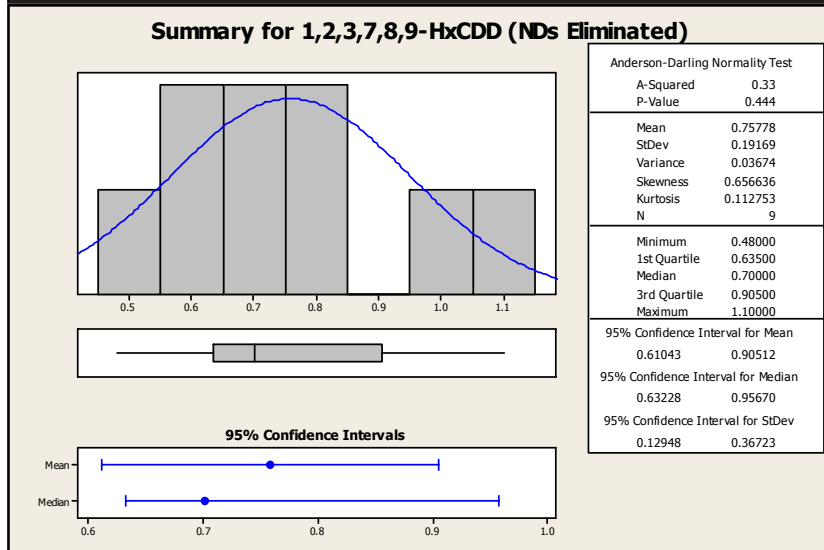
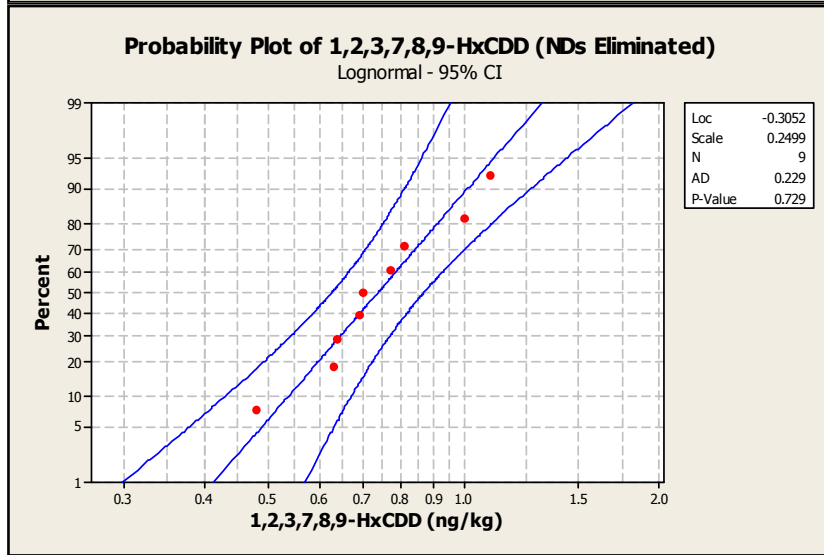
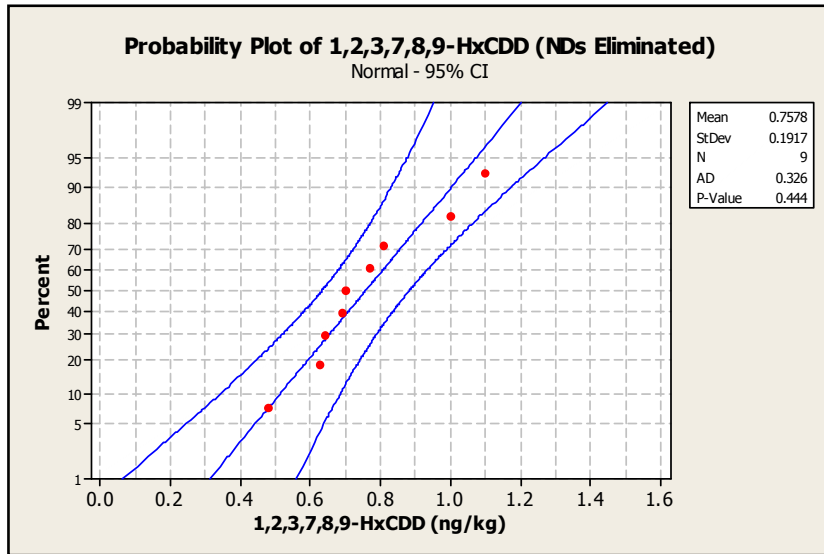
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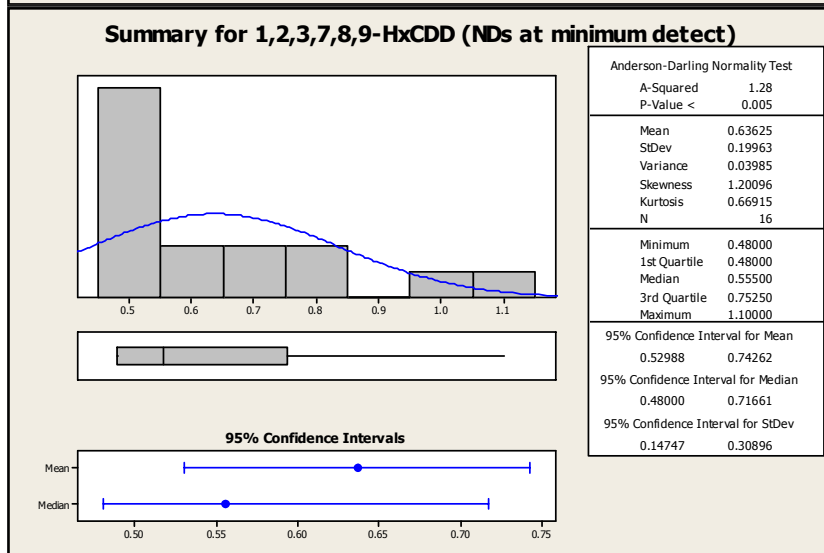
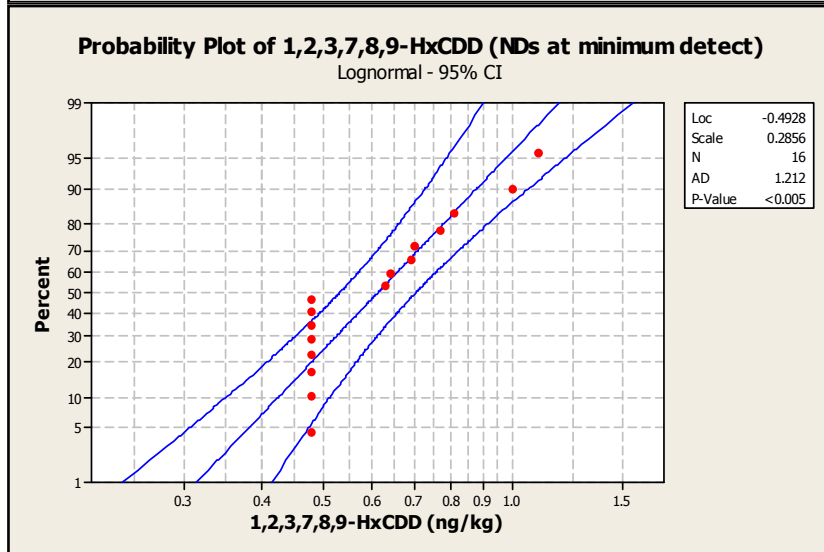
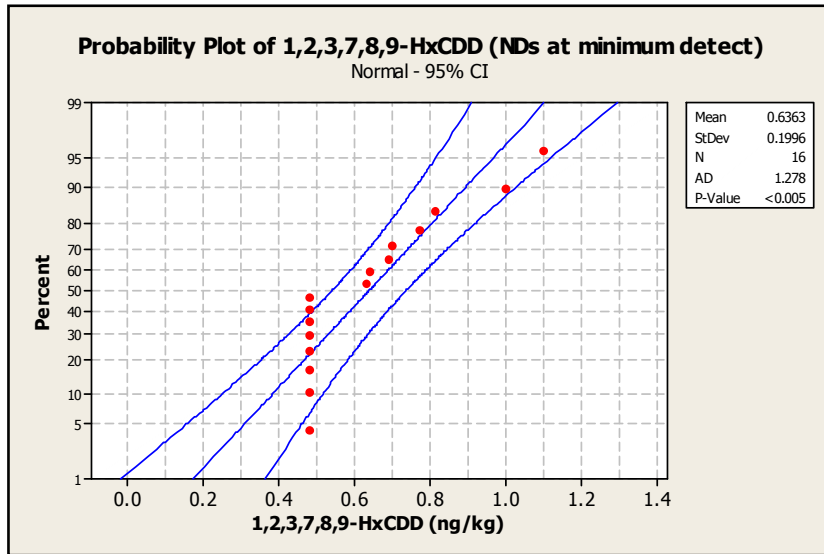
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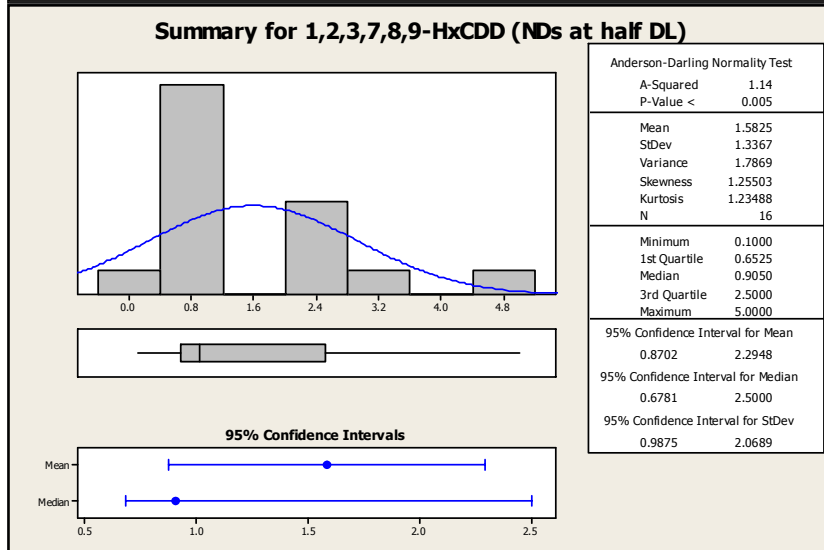
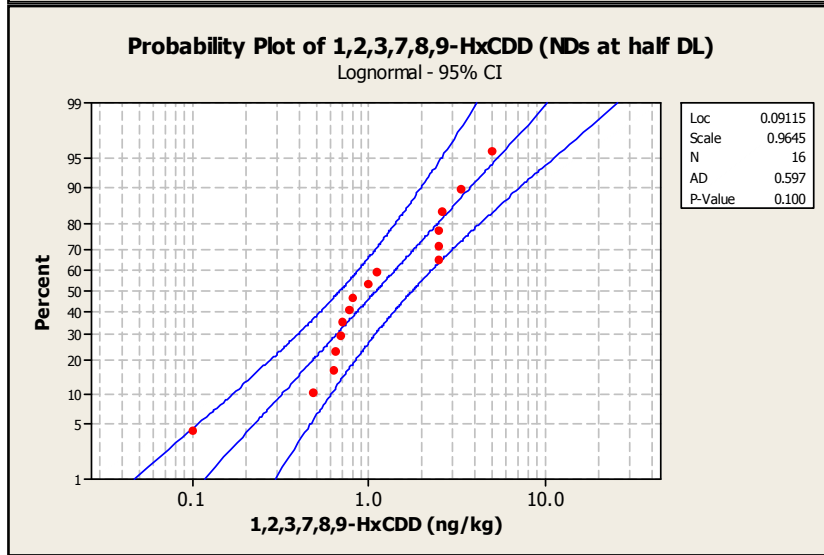
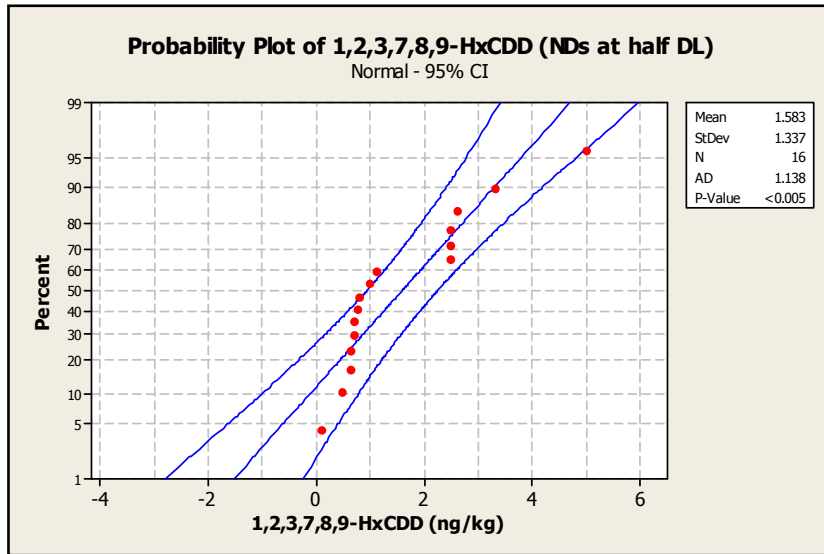
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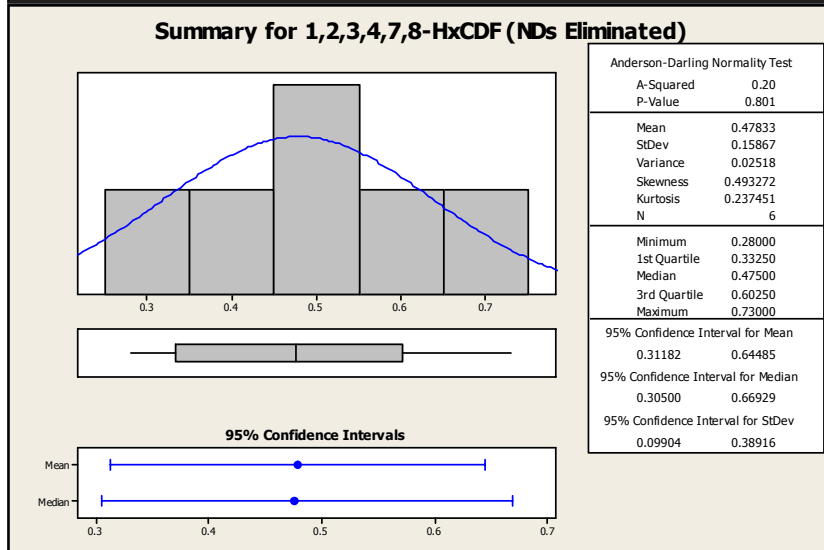
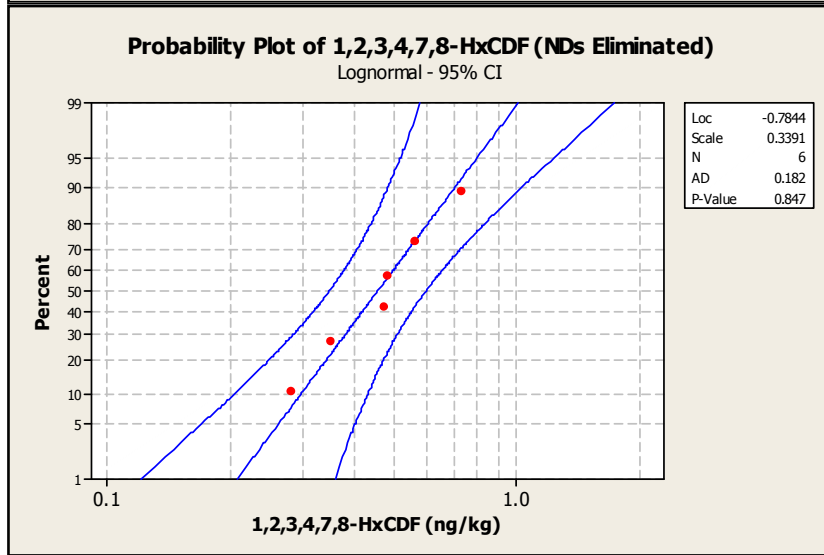
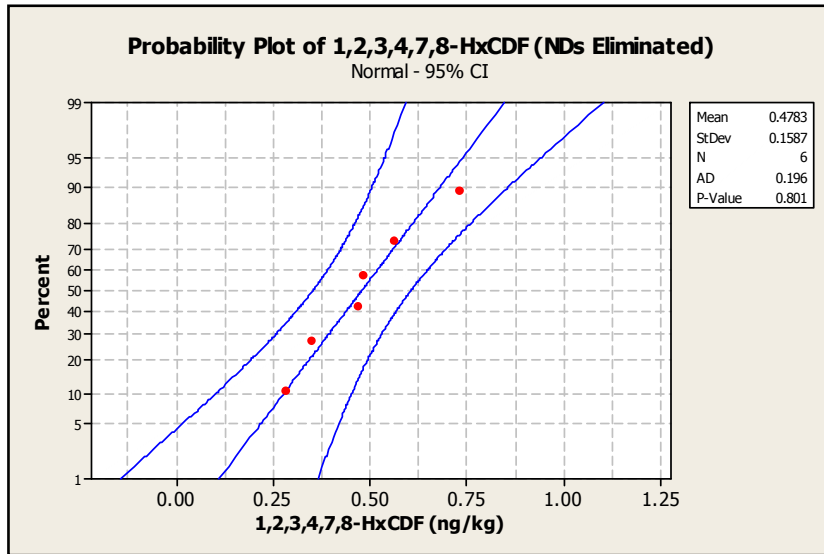
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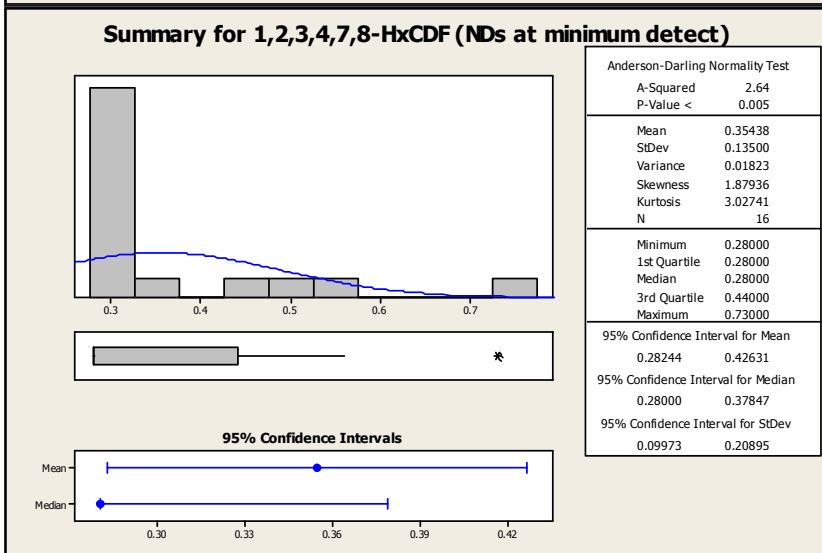
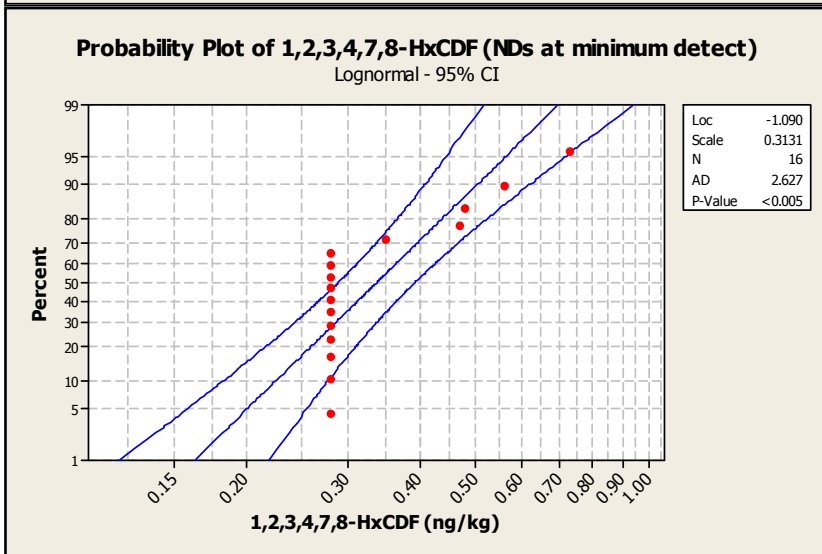
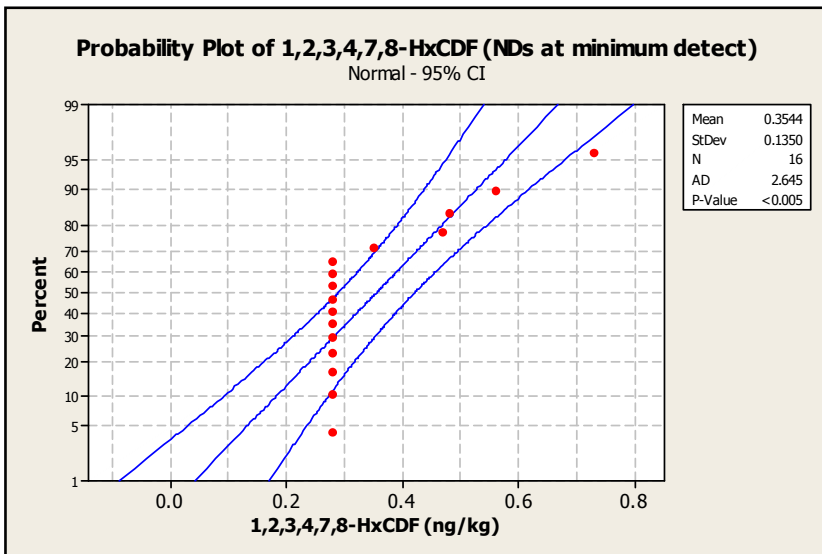
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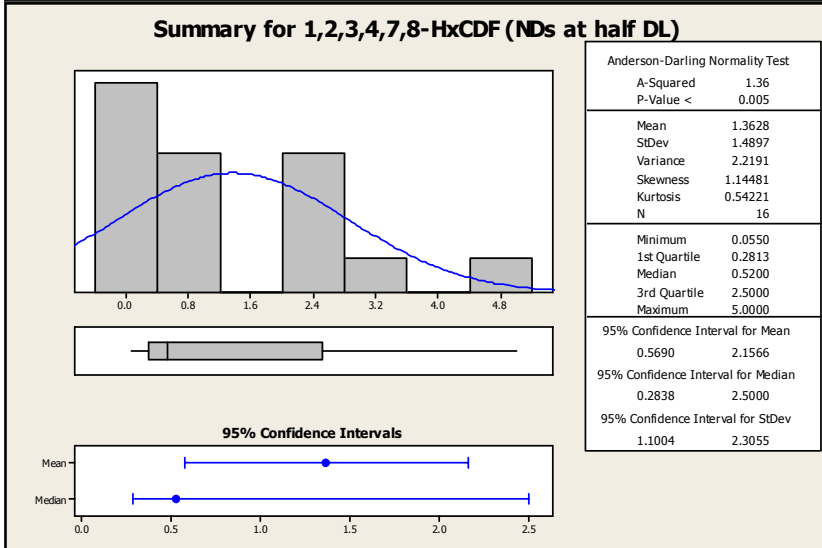
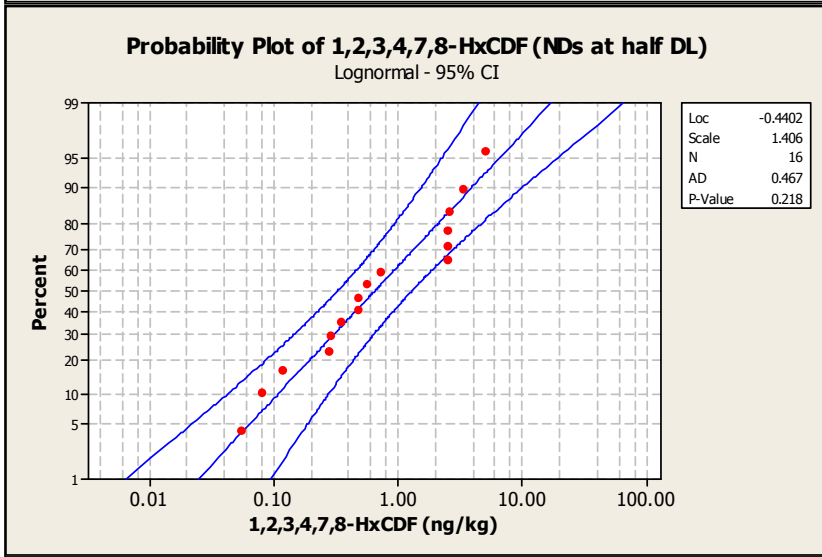
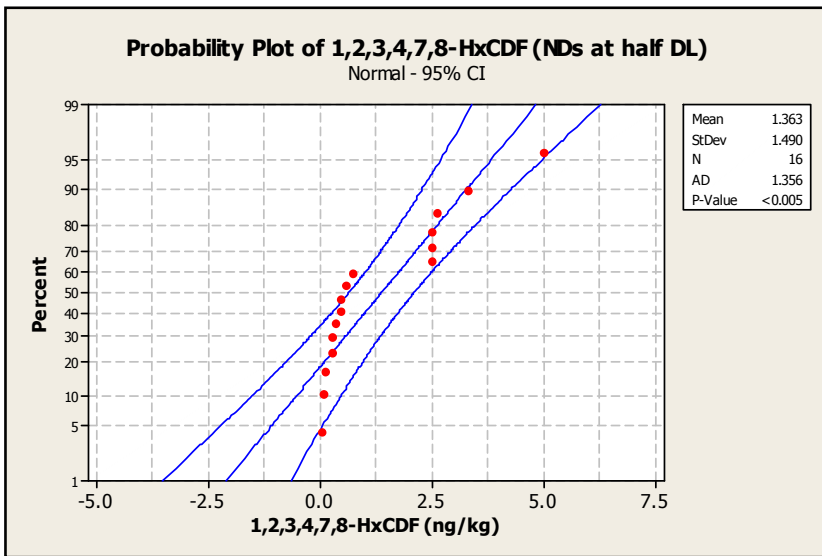
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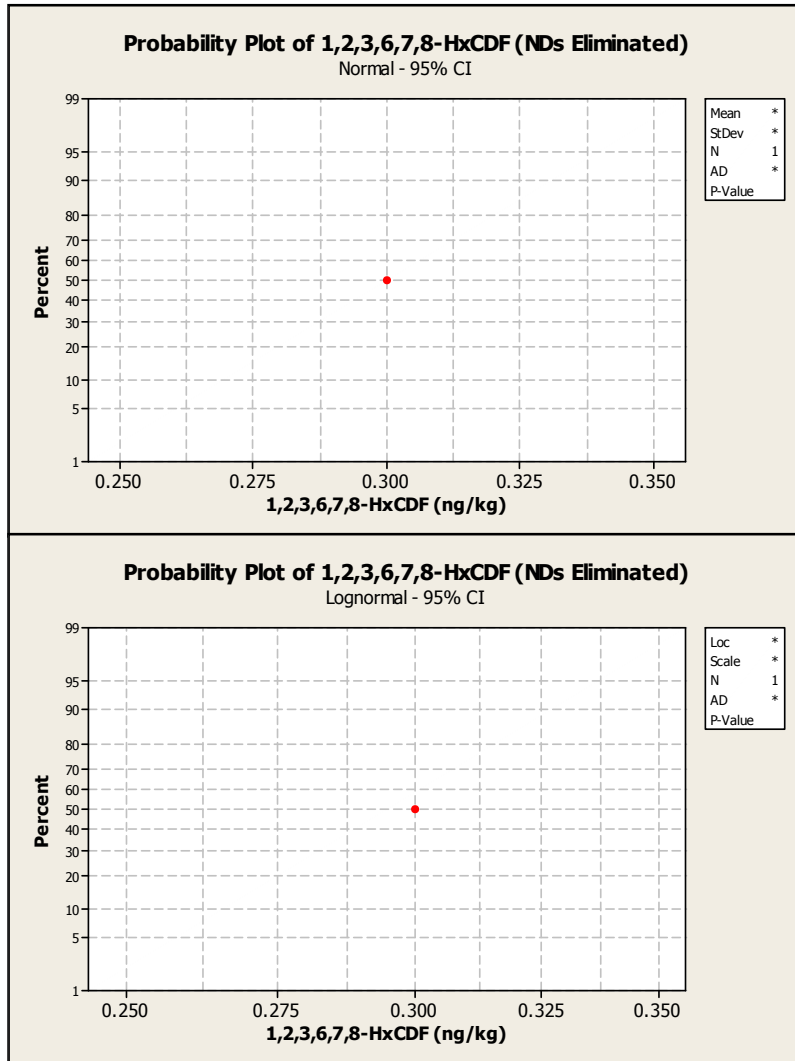


1,2,3,4,7,8-HxCDF

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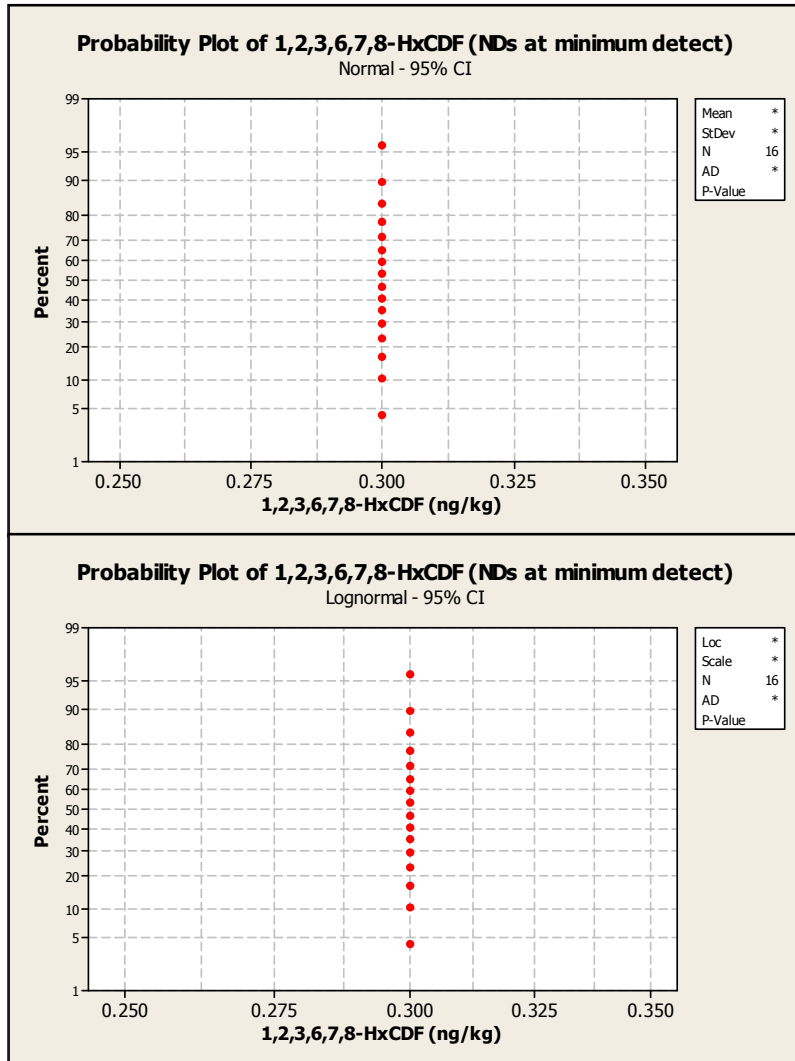


1,2,3,6,7,8-HxCDF
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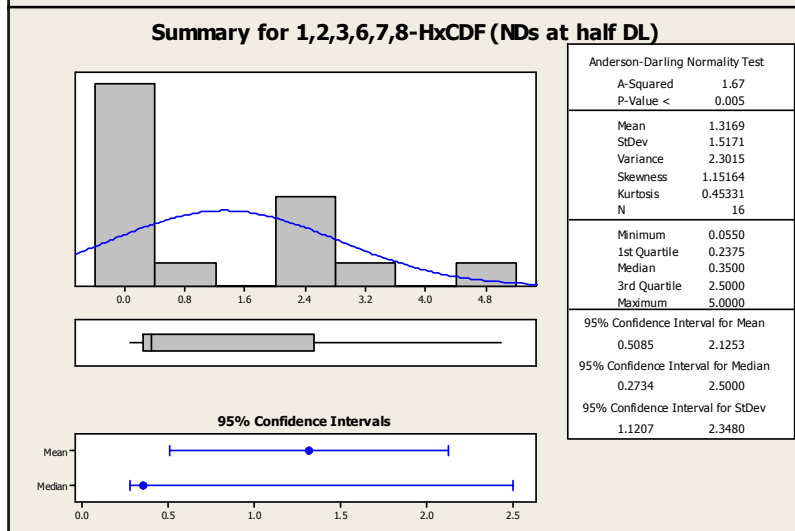
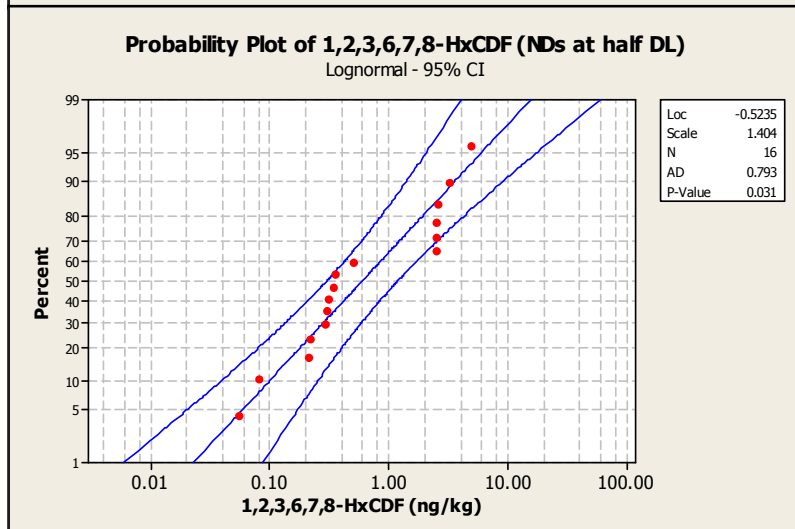
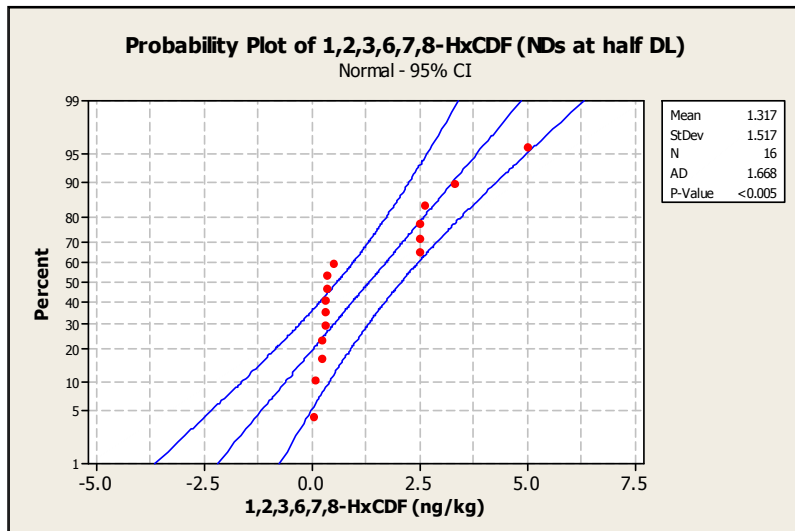
**GRAPHICAL SUMMARY NOT PREPARED FOR
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NUMBER OF DETECTS**

1,2,3,6,7,8-HxCDF
(Page 2 of 3)

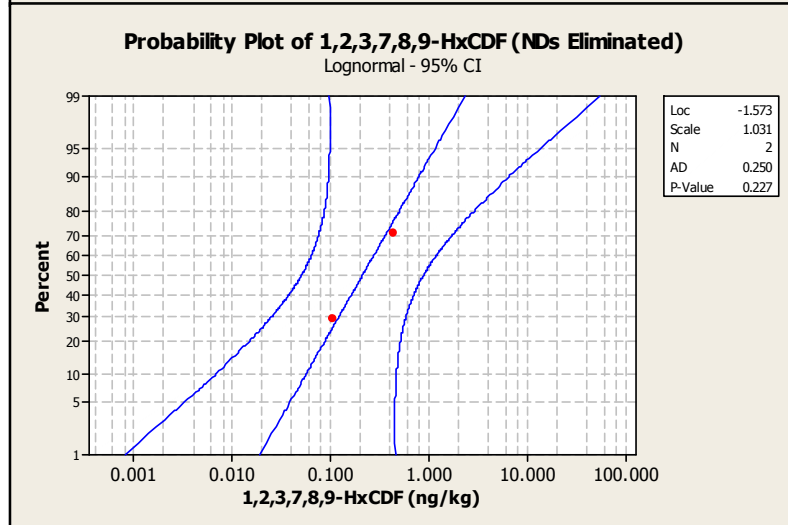
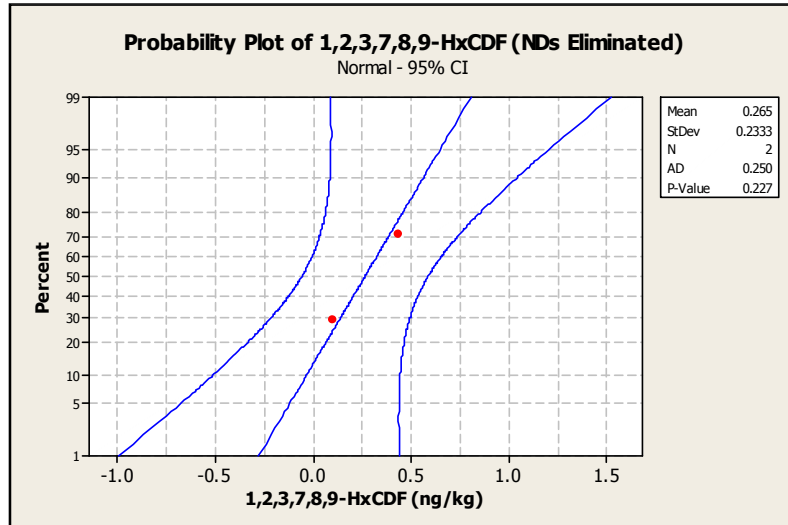


GRAPHICAL SUMMARY NOT PREPARED FOR
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IDENTICAL VALUES FOR ALL SAMPLES

1,2,3,6,7,8-HxCDF (Page 3 of 3)



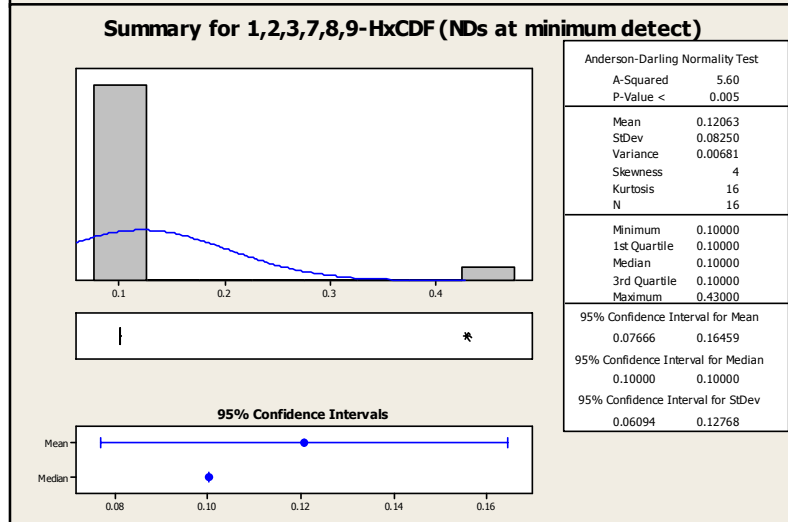
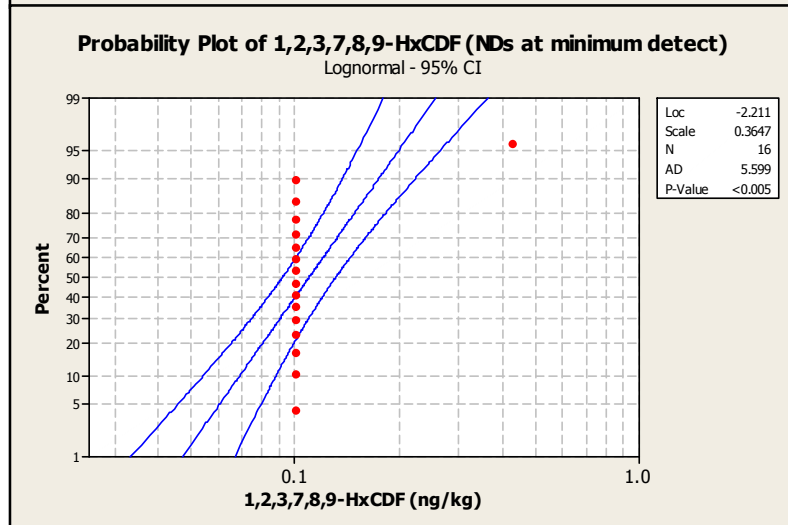
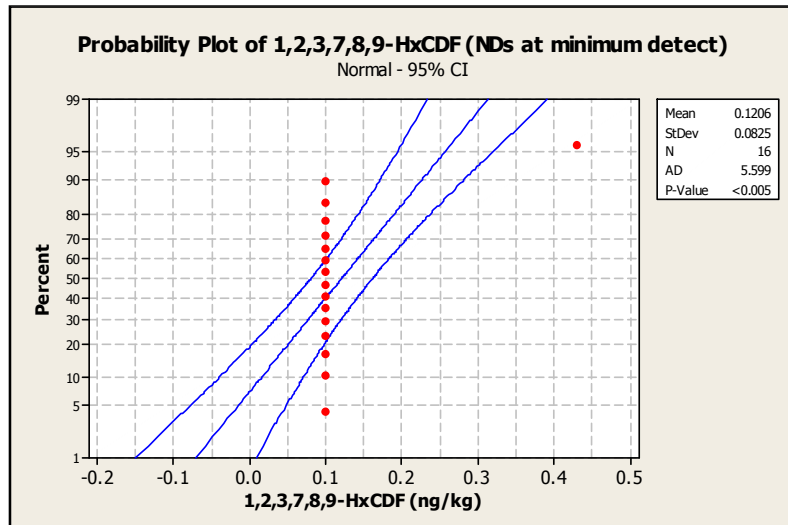
1,2,3,7,8,9-HxCDF
(Page 1 of 3)



**GRAPHICAL SUMMARY NOT PREPARED
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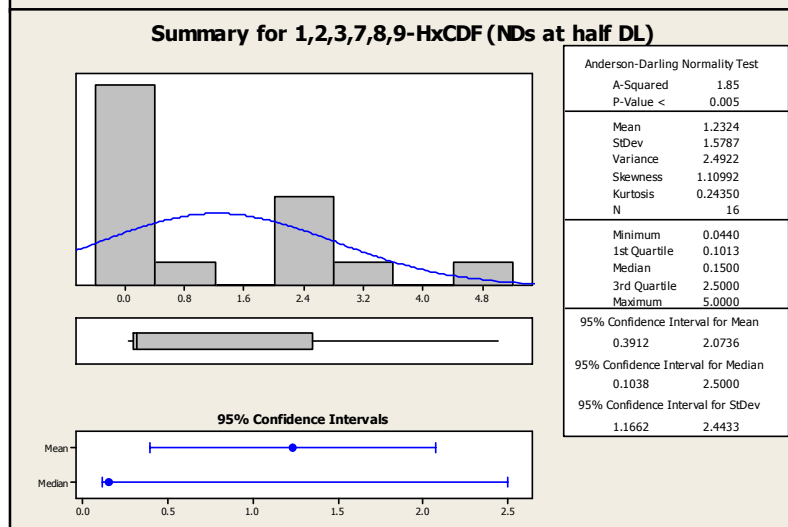
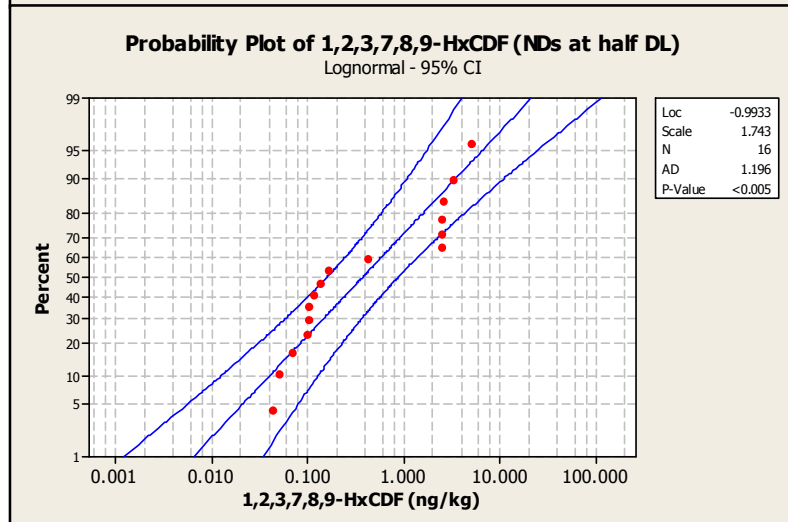
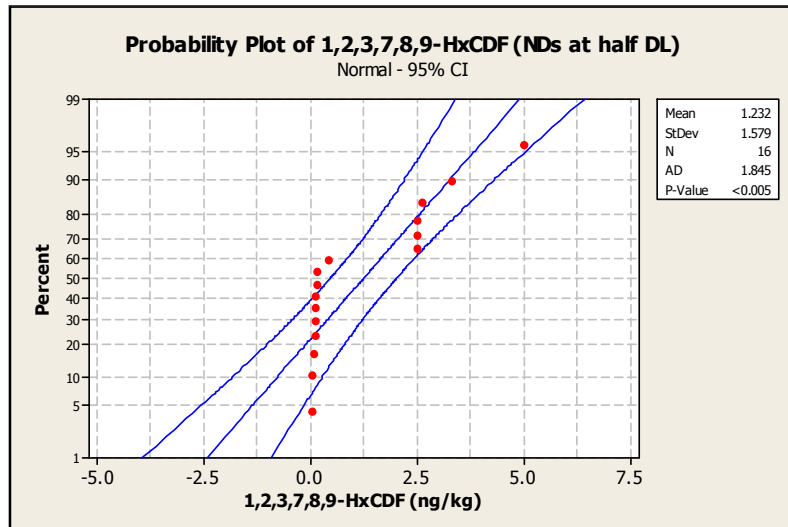
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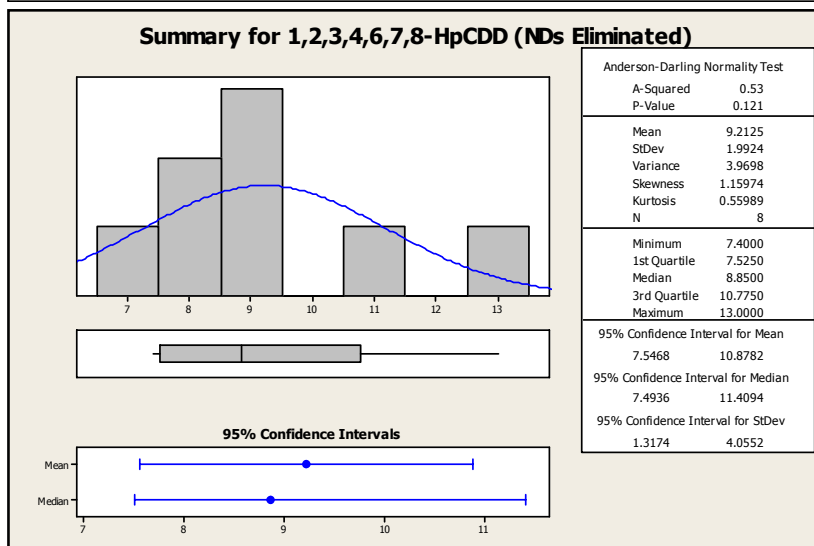
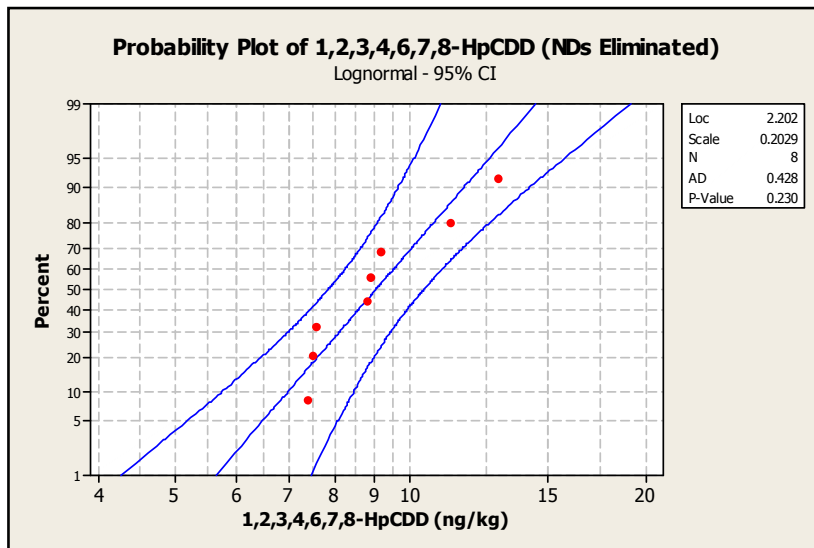
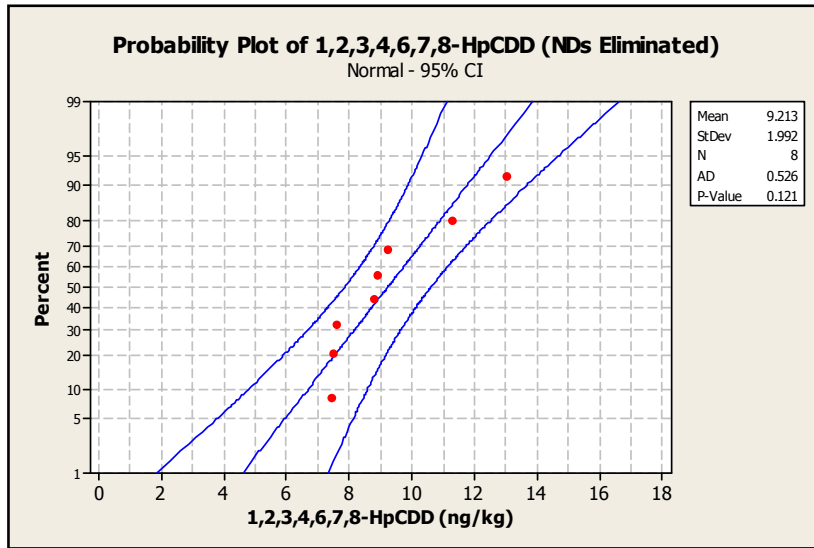


1,2,3,7,8,9-HxCDF

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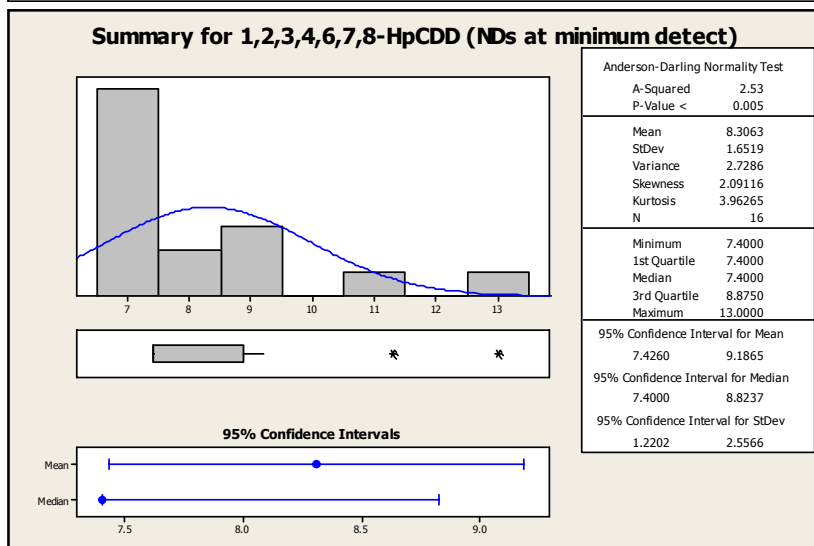
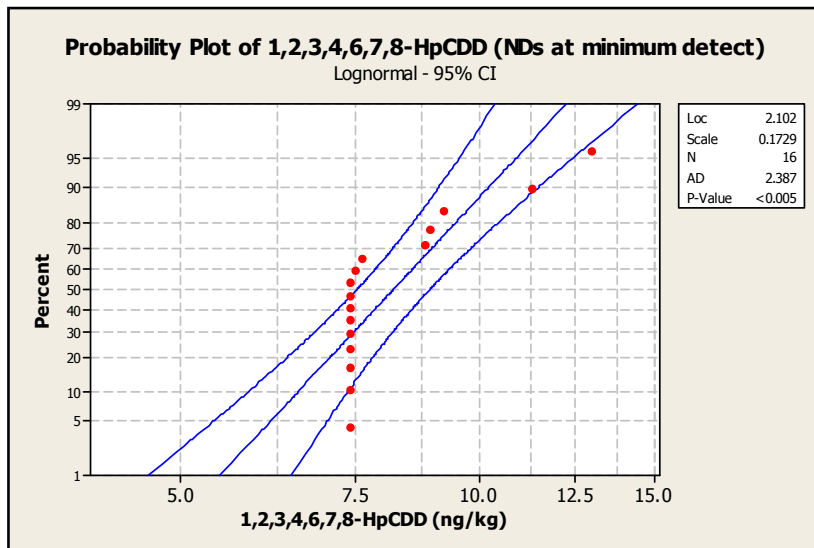
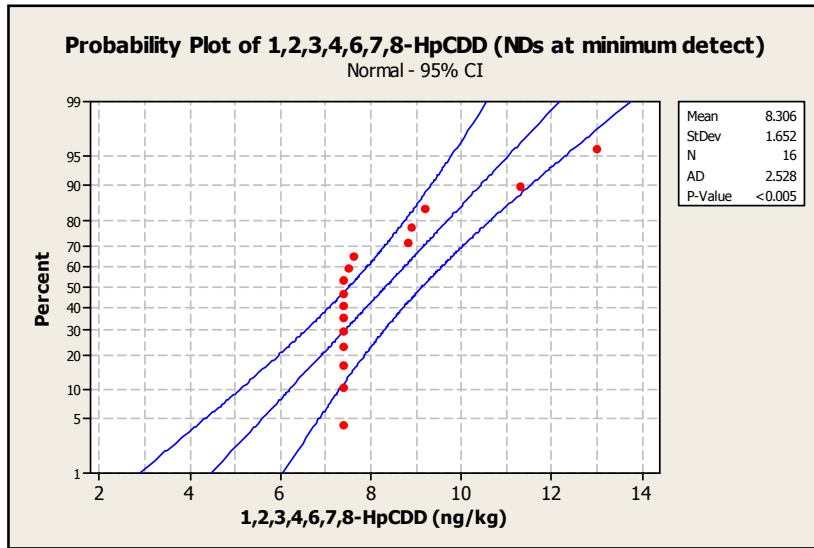


1,2,3,4,6,7,8-HpCDD (Page 1 of 3)



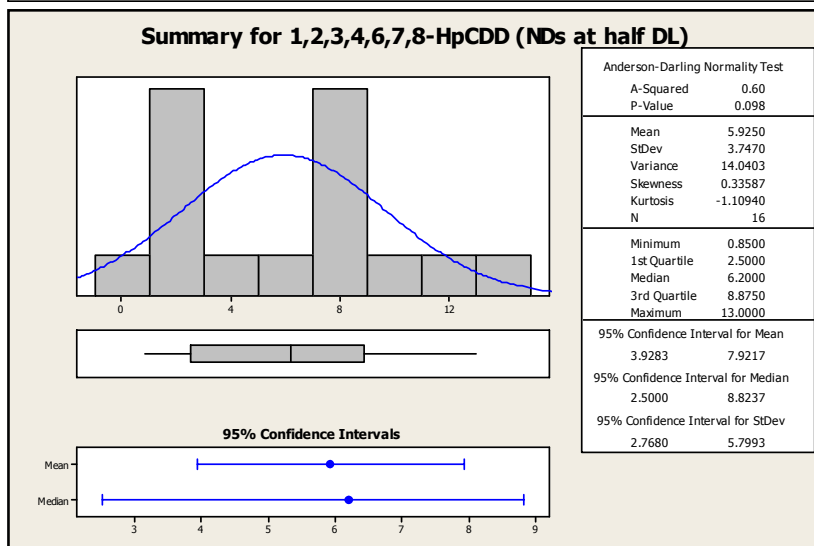
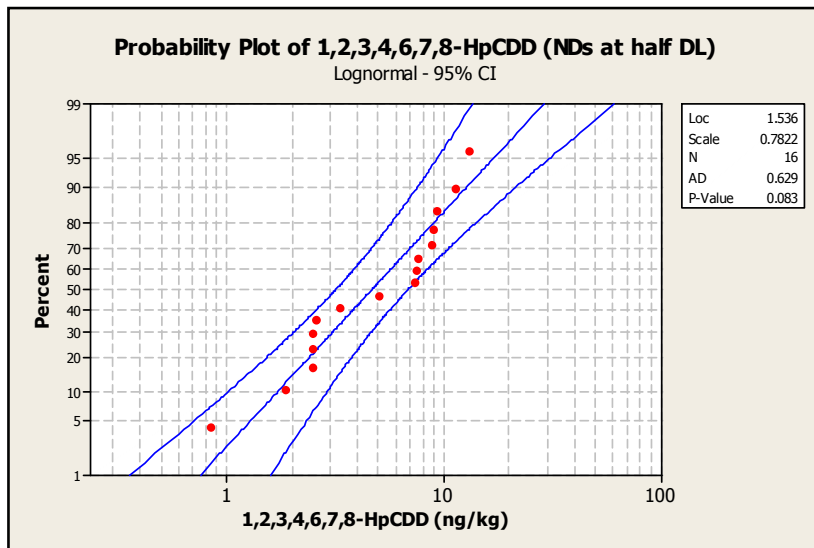
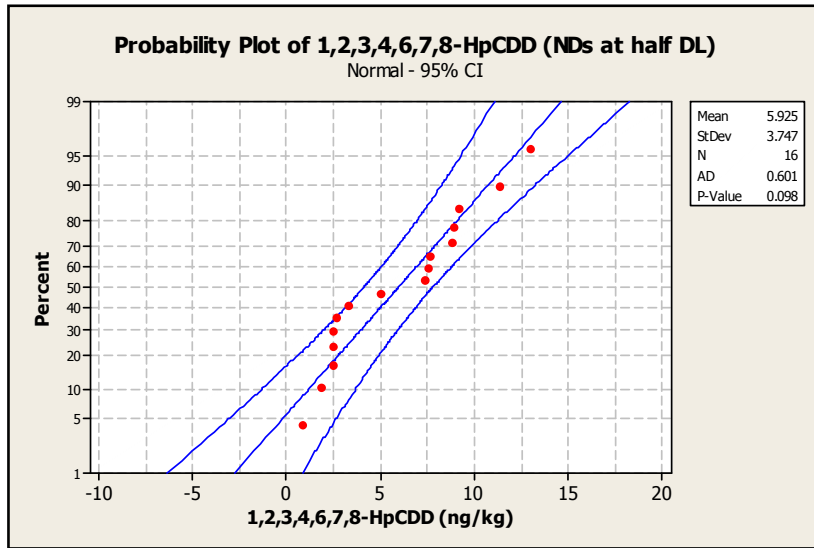
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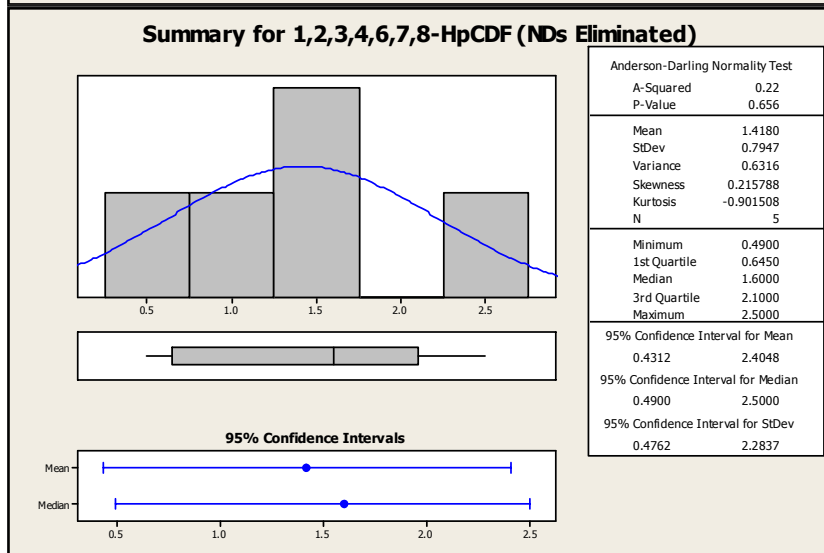
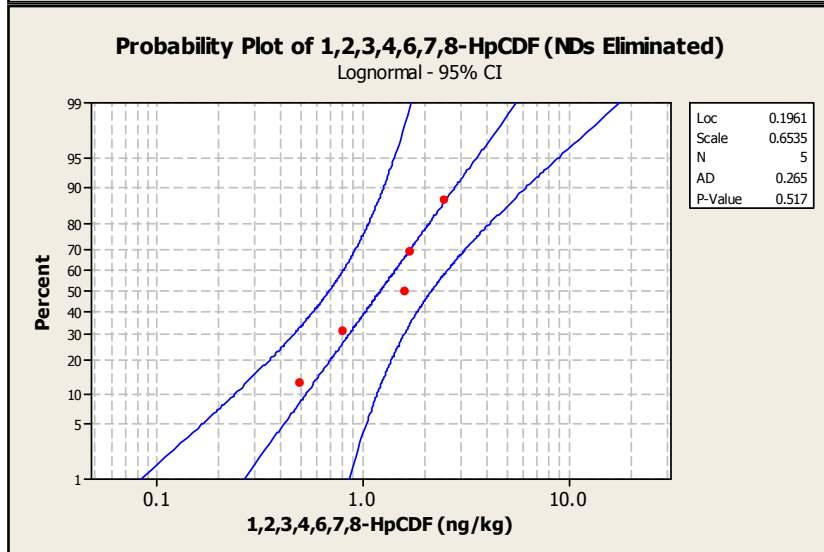
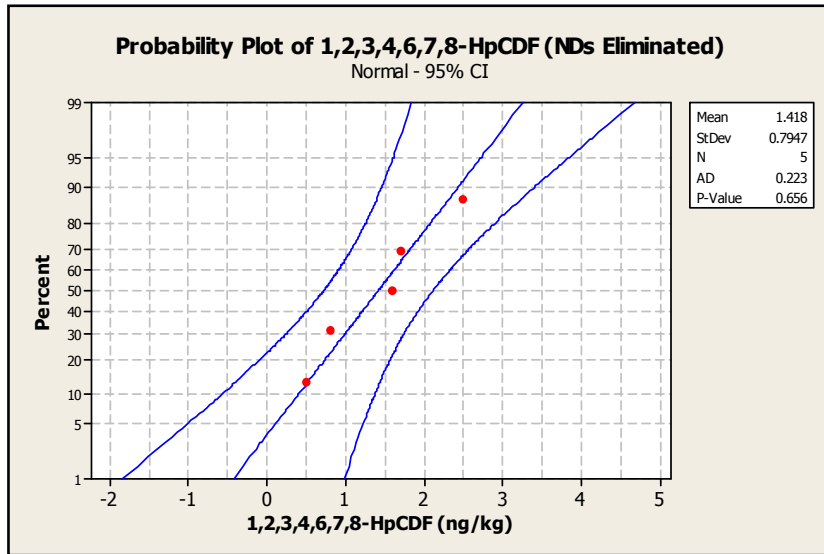


1,2,3,4,6,7,8-HpCDD

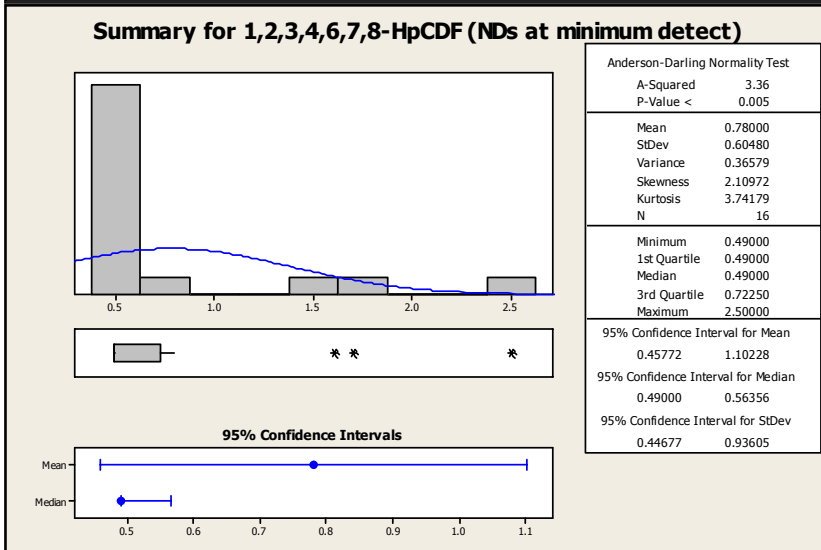
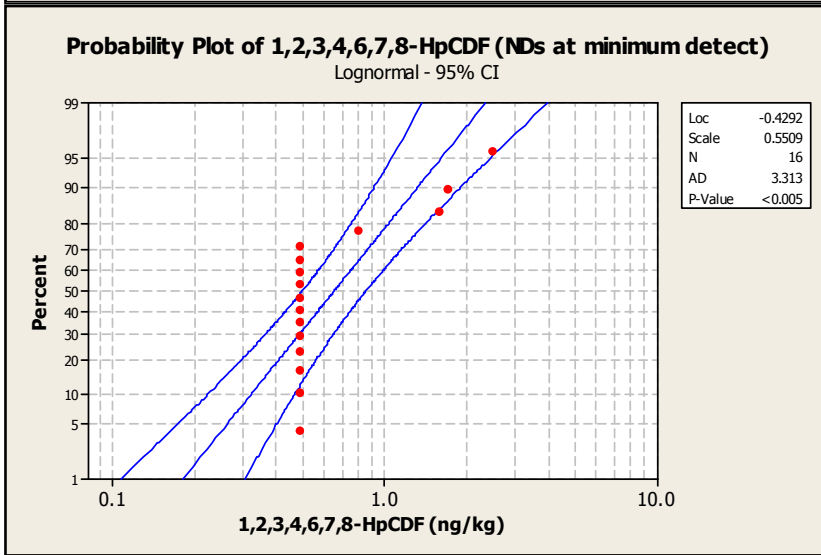
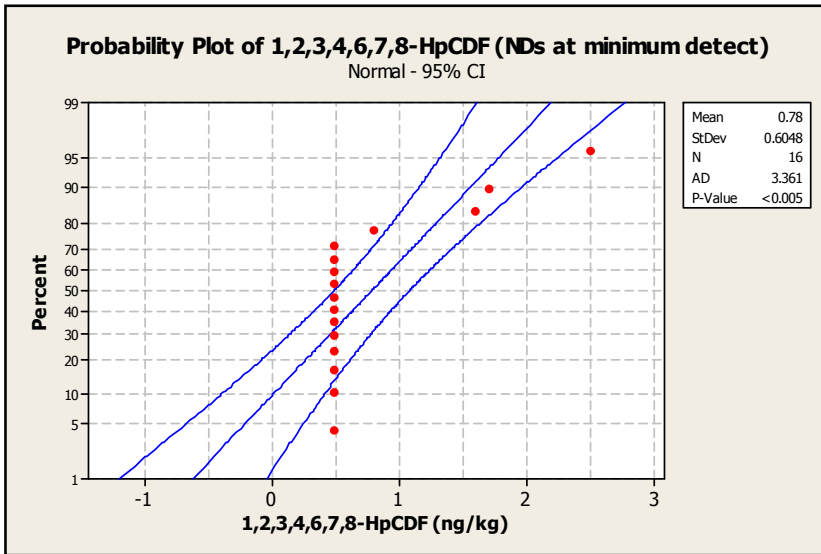
(Page 3 of 3)



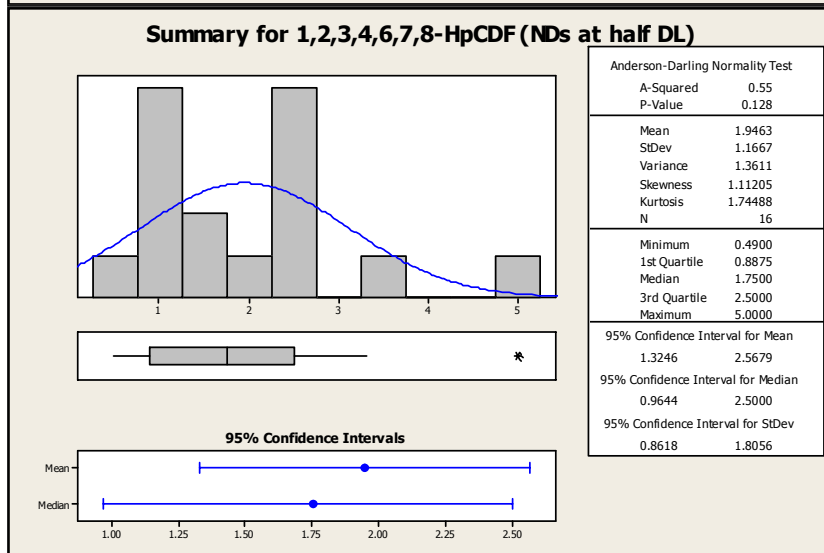
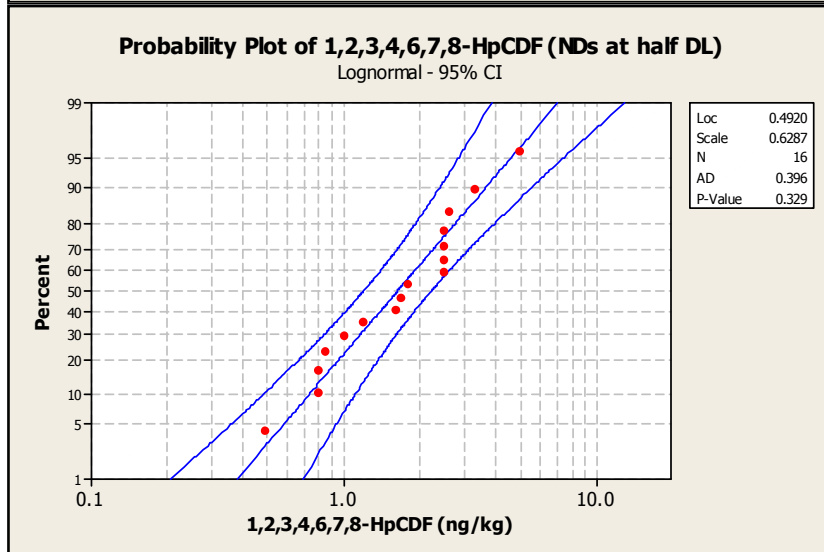
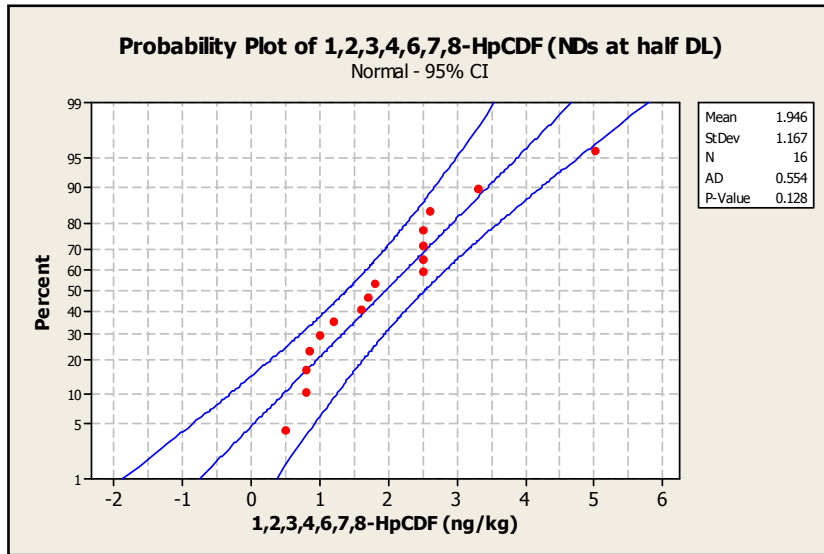
1,2,3,4,6,7,8-HpCDF (Page 1 of 3)



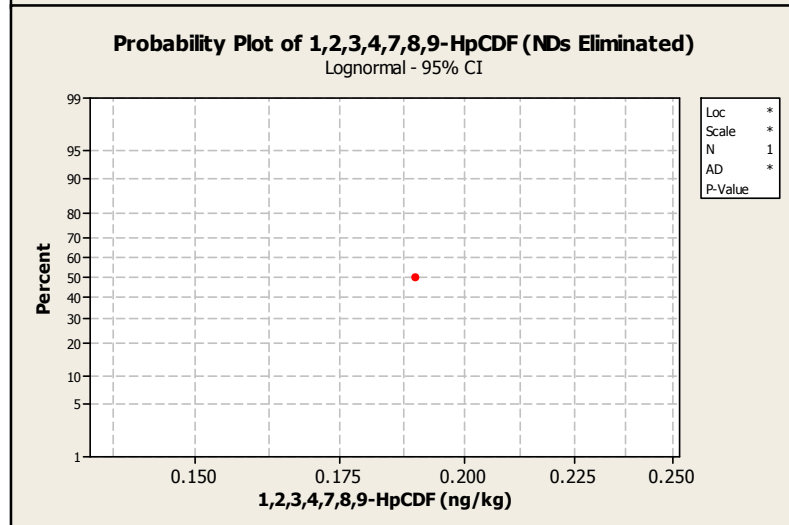
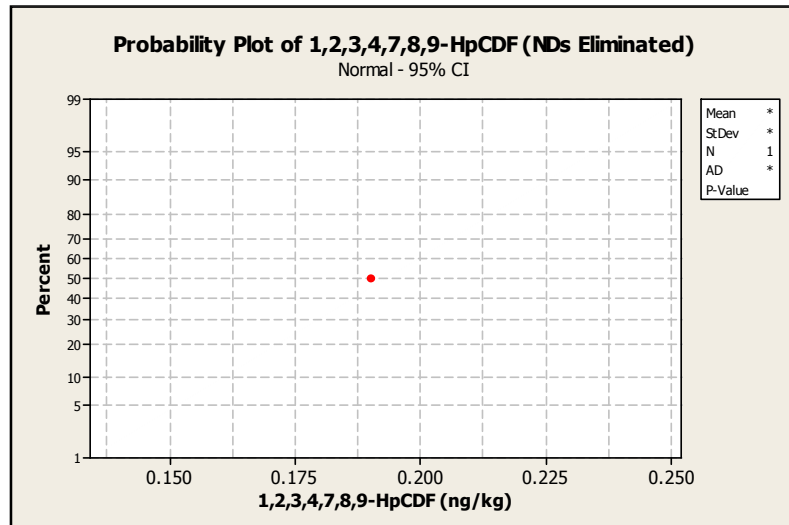
1,2,3,4,6,7,8-HpCDF (Page 2 of 3)



1,2,3,4,6,7,8-HpCDF (Page 3 of 3)

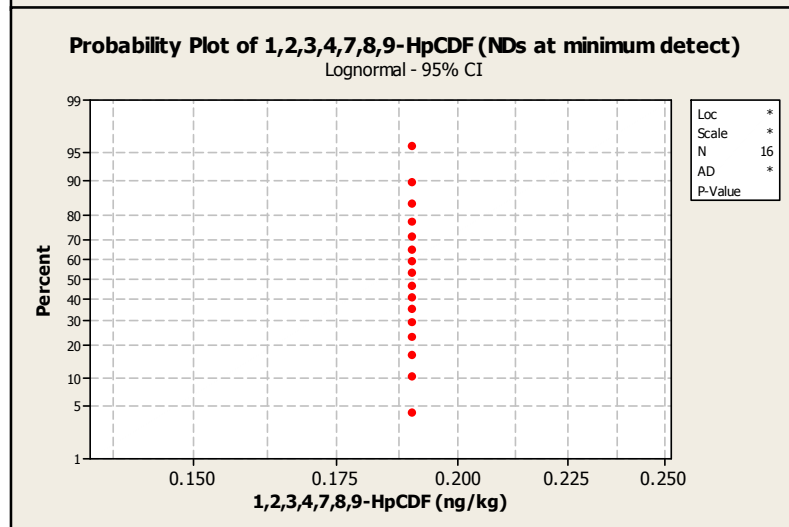
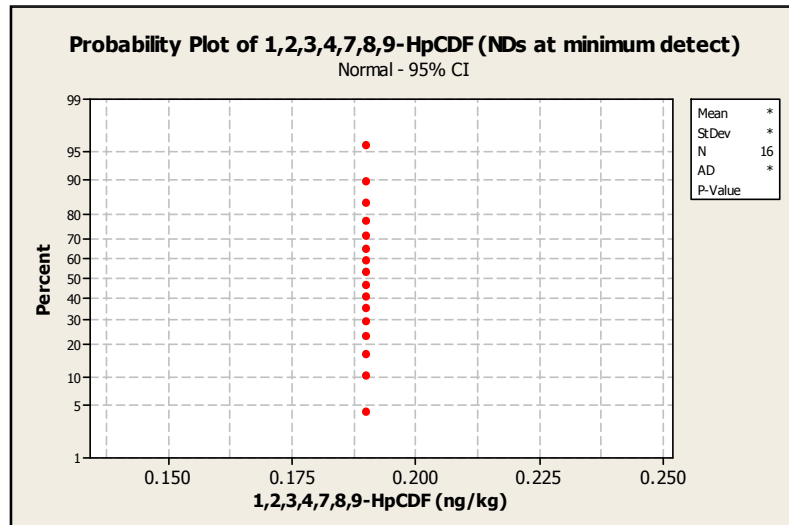


1,2,3,4,7,8,9-HpCDF
(Page 1 of 3)



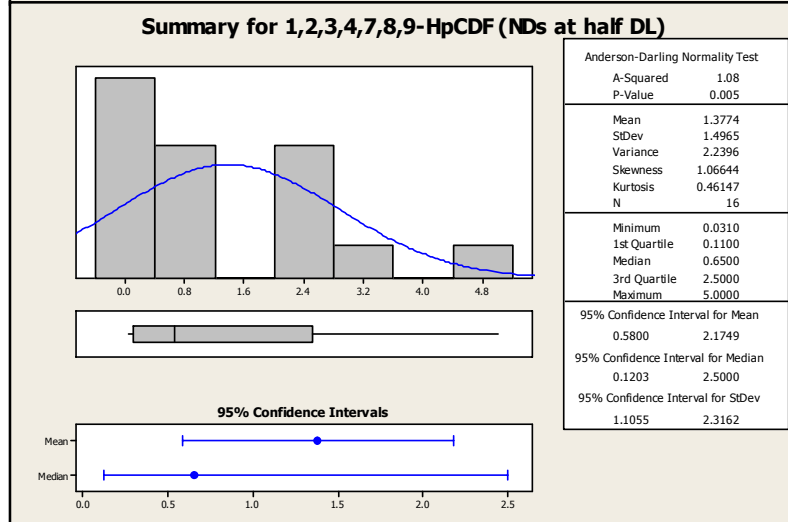
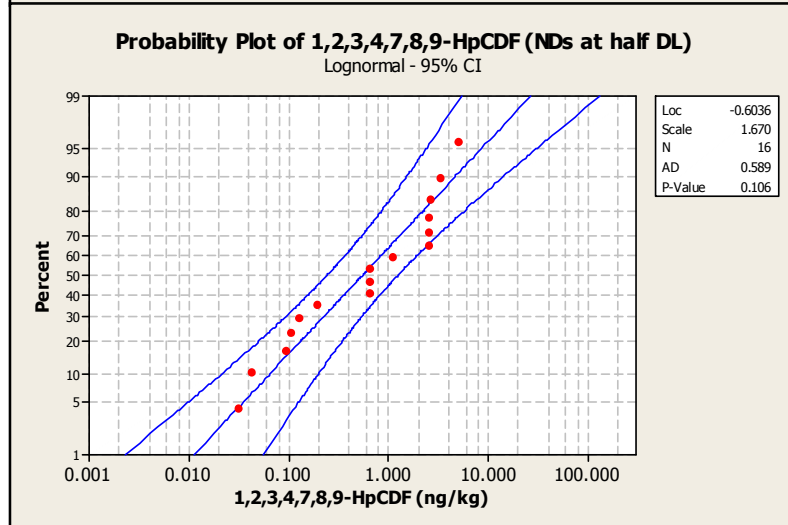
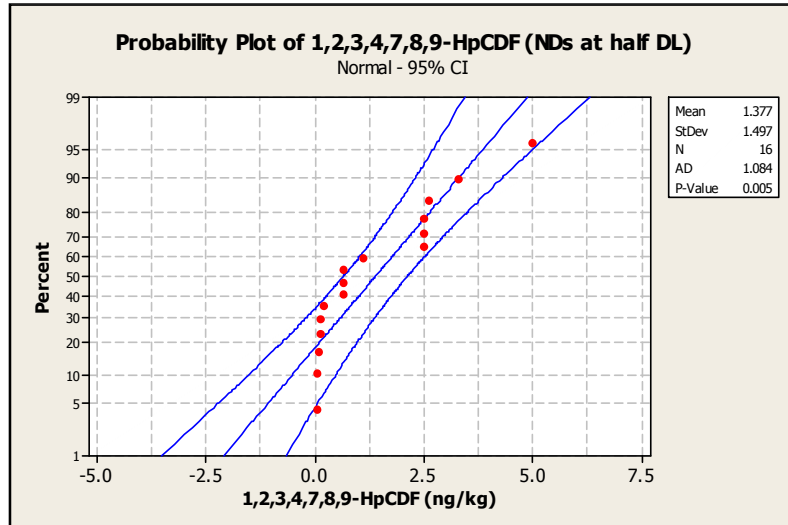
**GRAPHICAL SUMMARY NOT PREPARED
FOR "NDs ELIMINATED" DUE TO
INSUFFICIENT NUMBER OF DETECTS**

1,2,3,4,7,8,9-HpCDF
(Page 2 of 3)

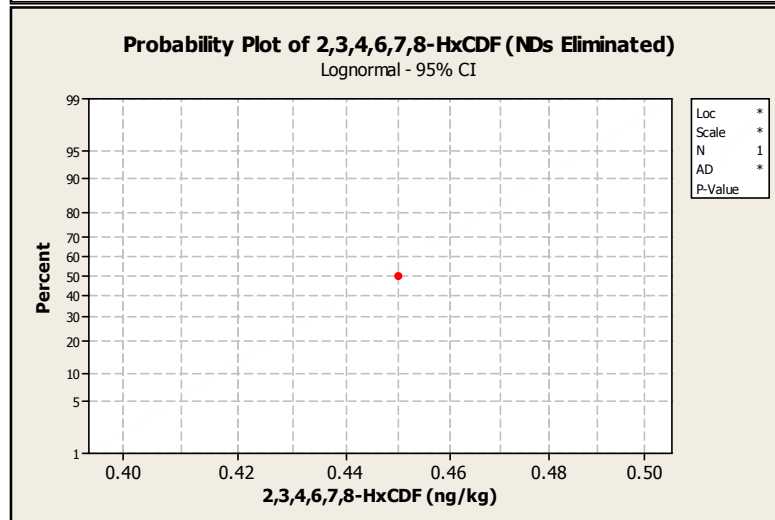
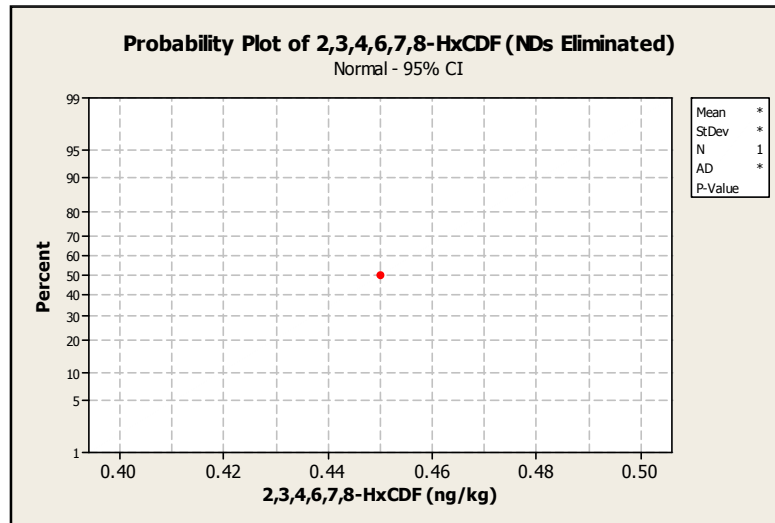


GRAPHICAL SUMMARY NOT PREPARED
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1,2,3,4,7,8,9-HpCDF (Page 3 of 3)

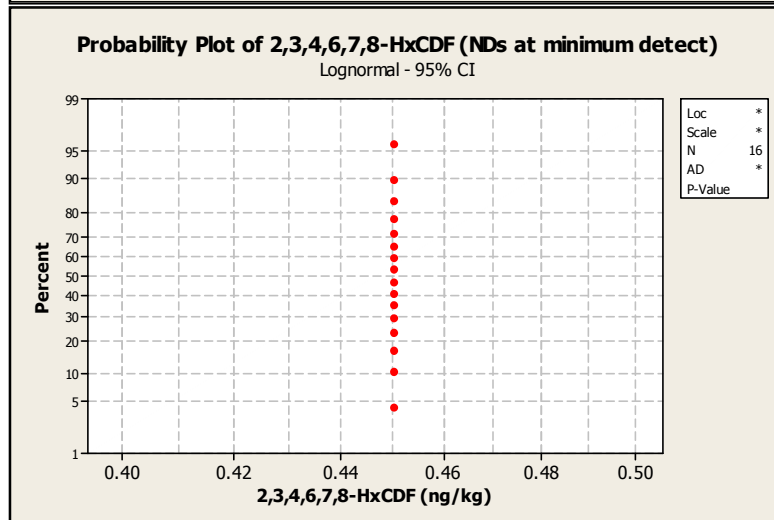
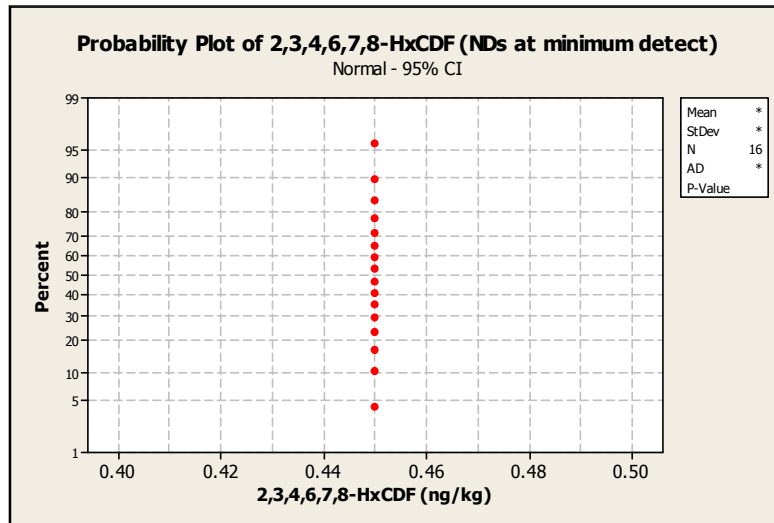


2,3,4,6,7,8-HxCDF
(Page 1 of 3)



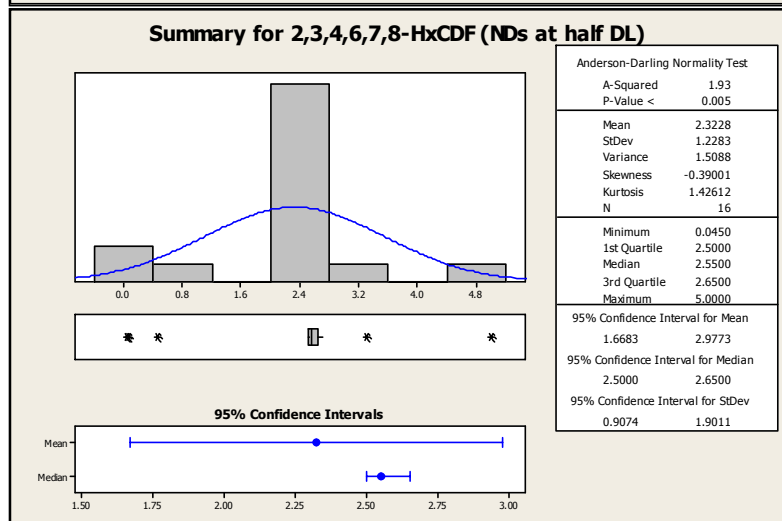
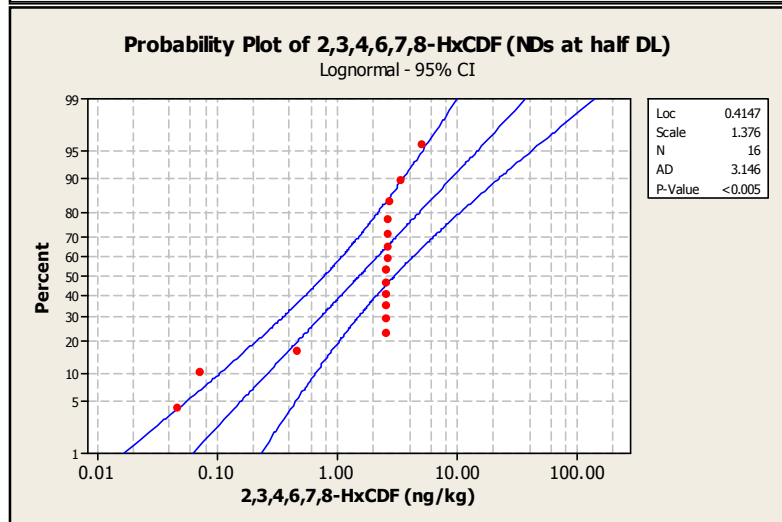
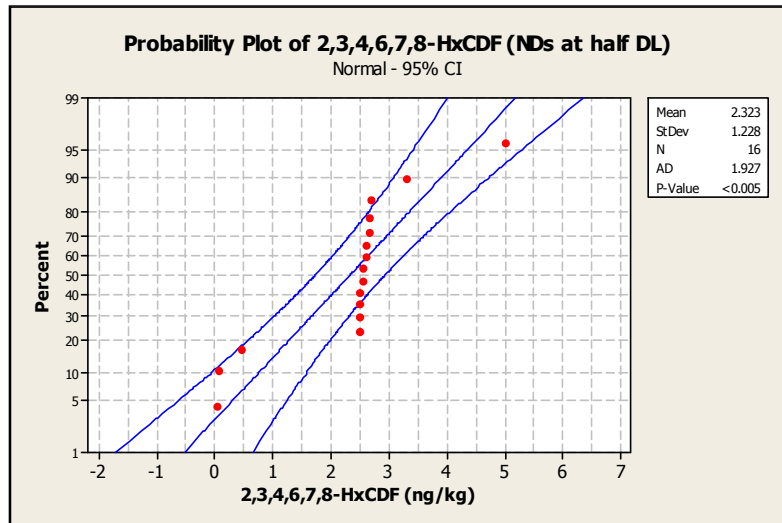
GRAPHICAL SUMMARY NOT PREPARED FOR
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NUMBER OF DETECTS

2,3,4,6,7,8-HxCDF
(Page 2 of 3)

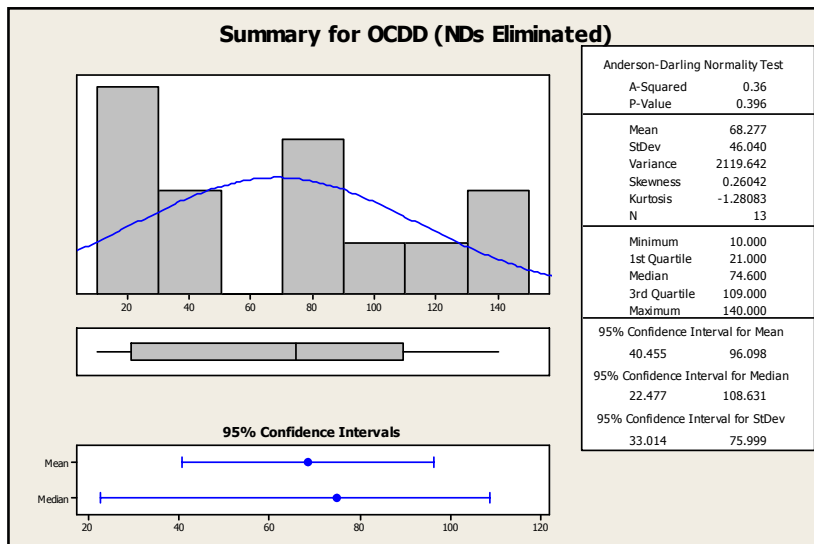
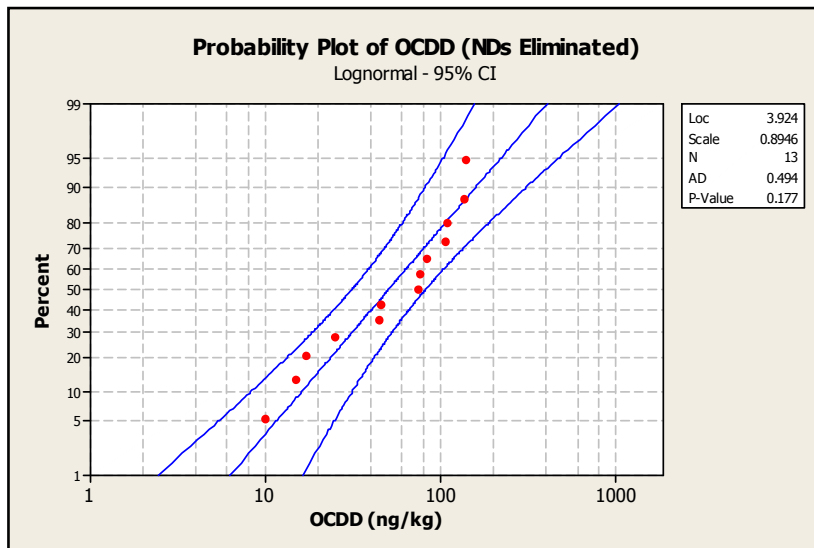
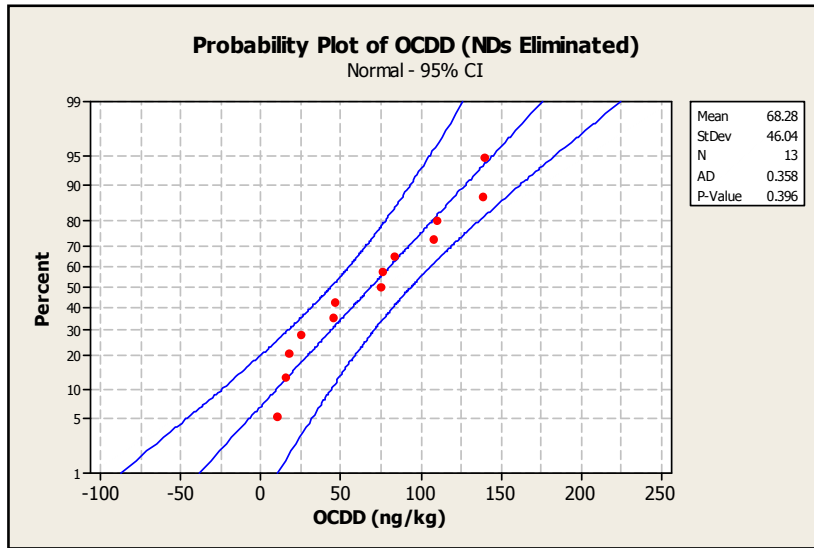


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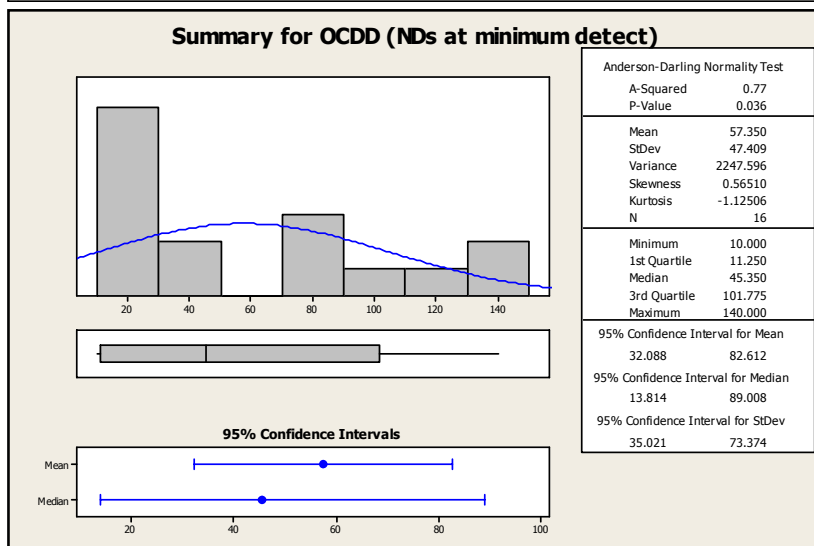
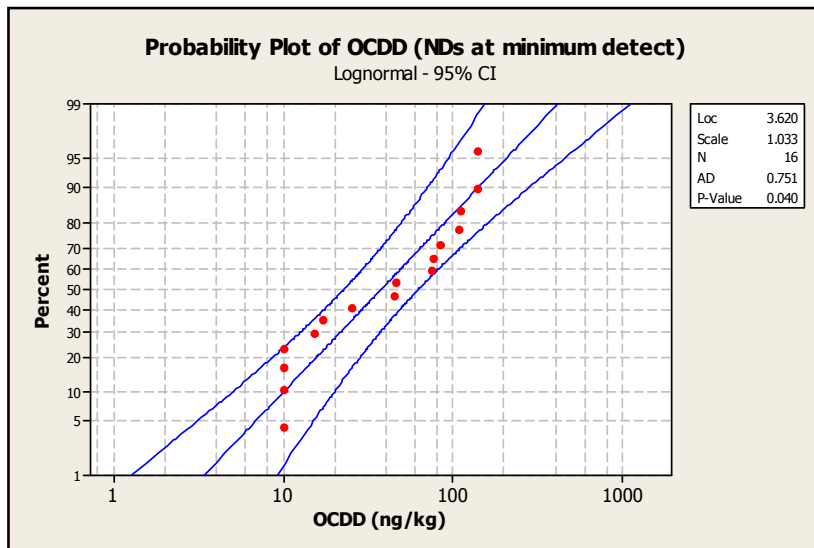
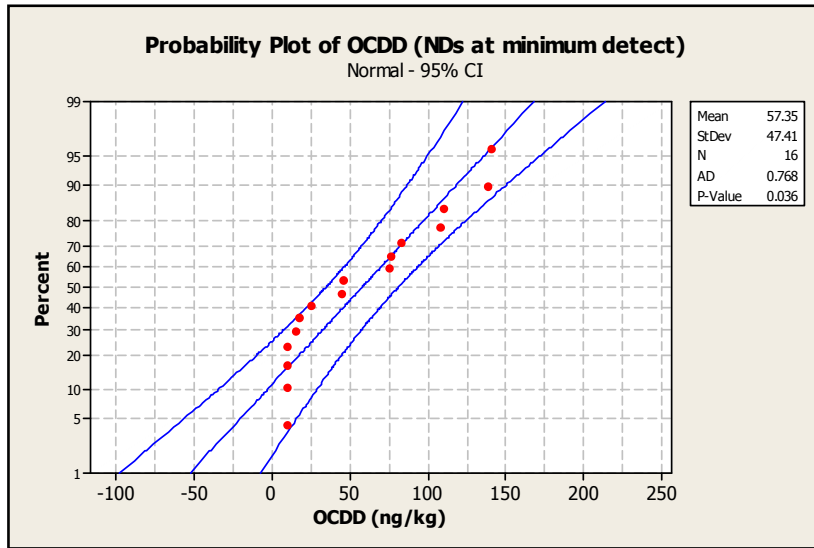
2,3,4,6,7,8-HxCDF (Page 3 of 3)



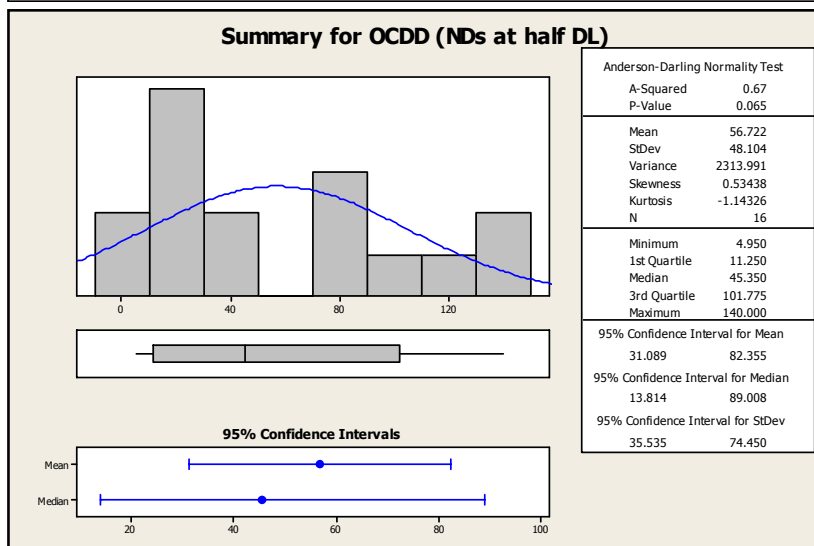
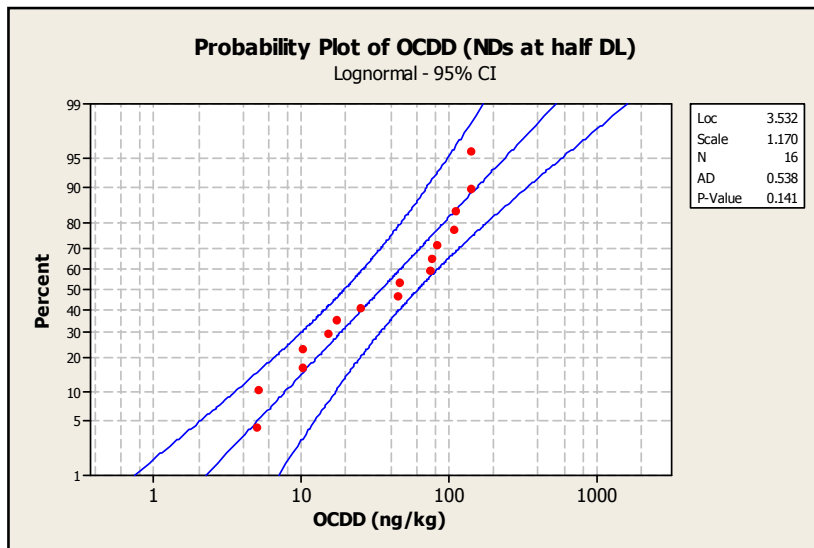
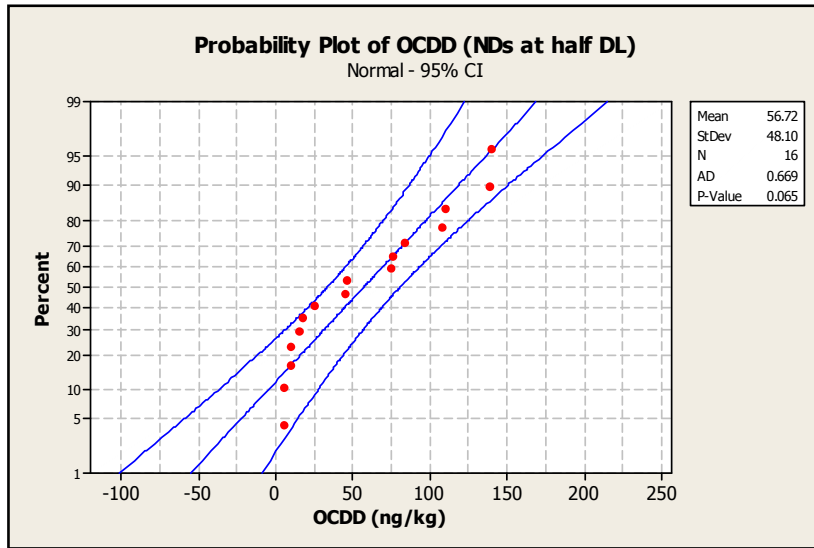
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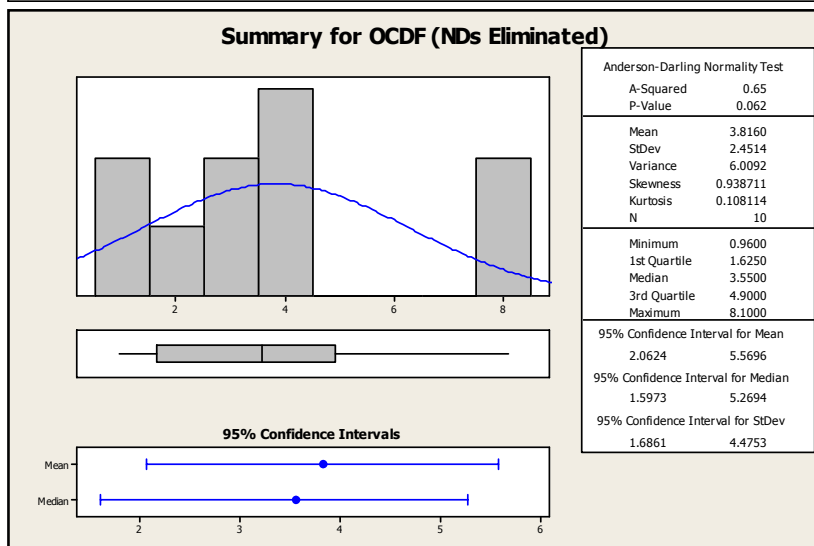
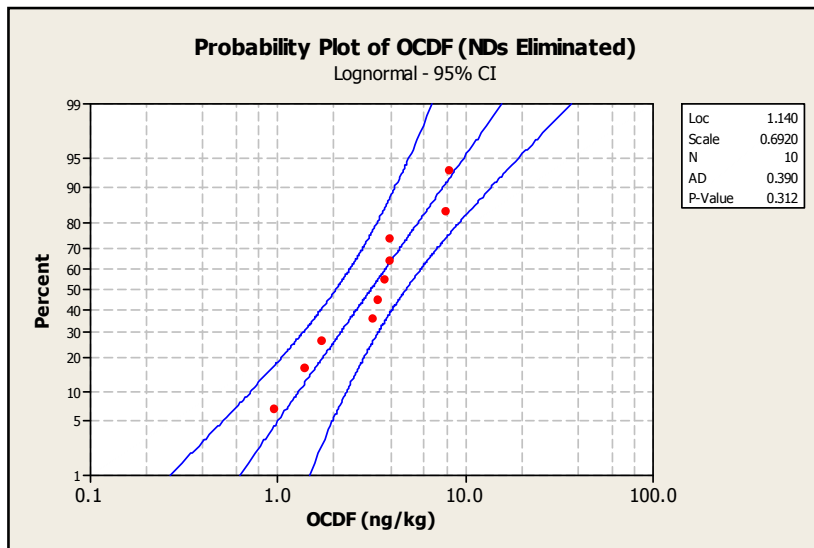
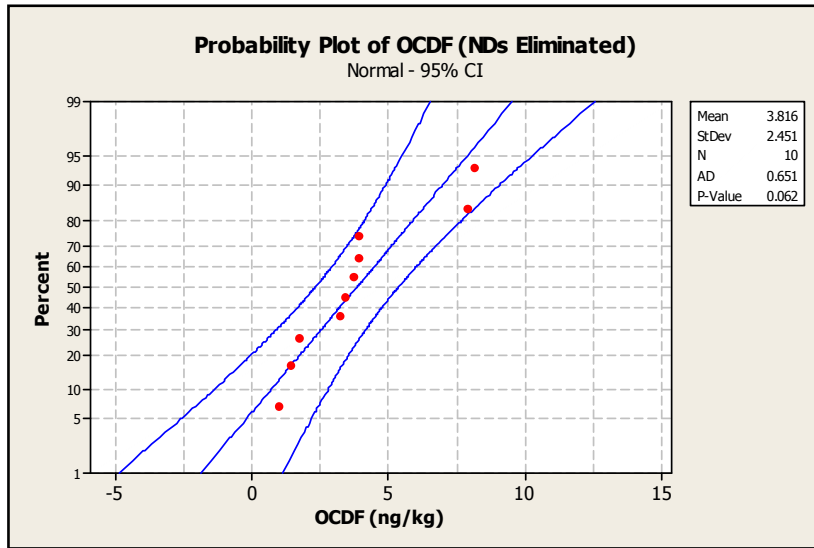
OCDD (Page 2 of 3)



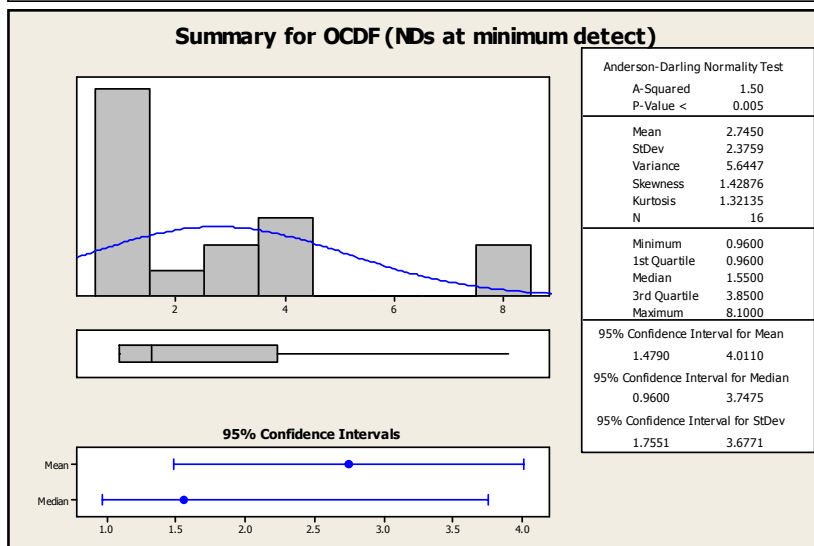
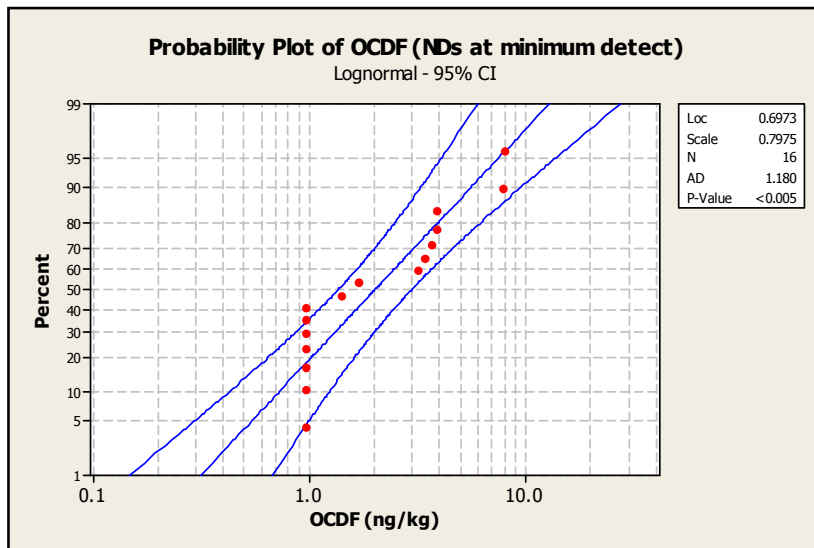
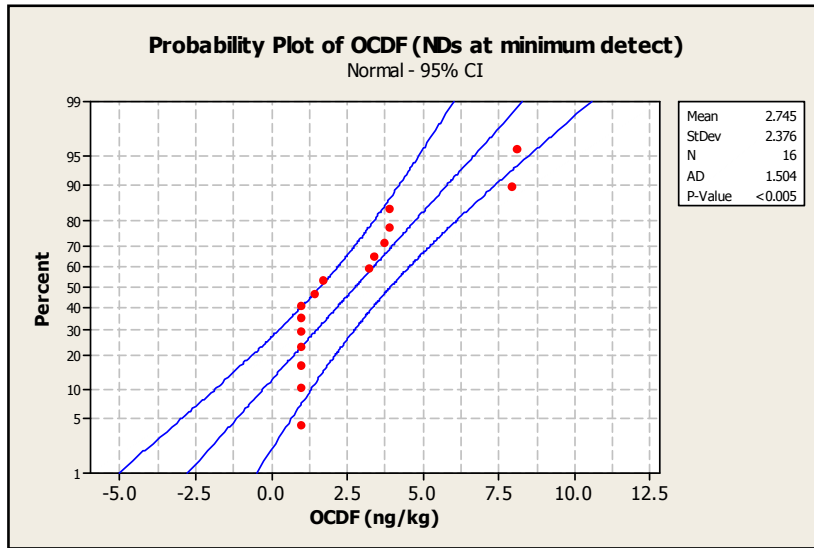
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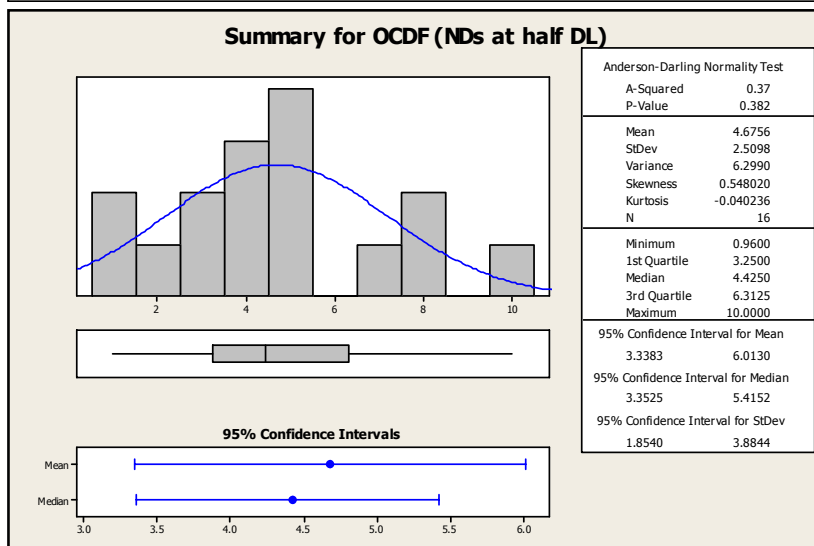
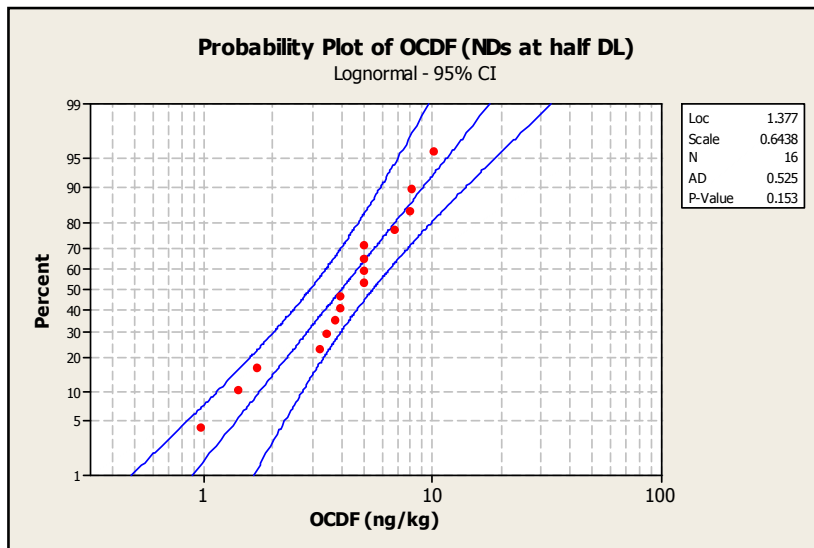
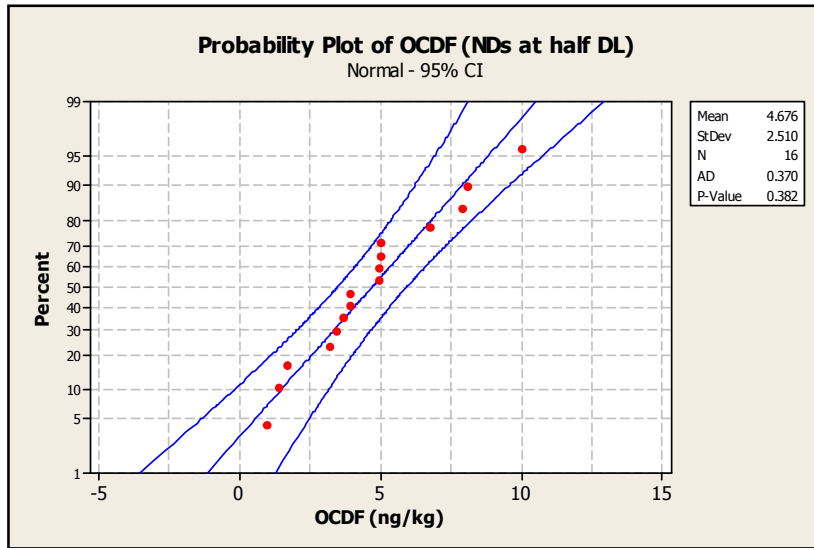
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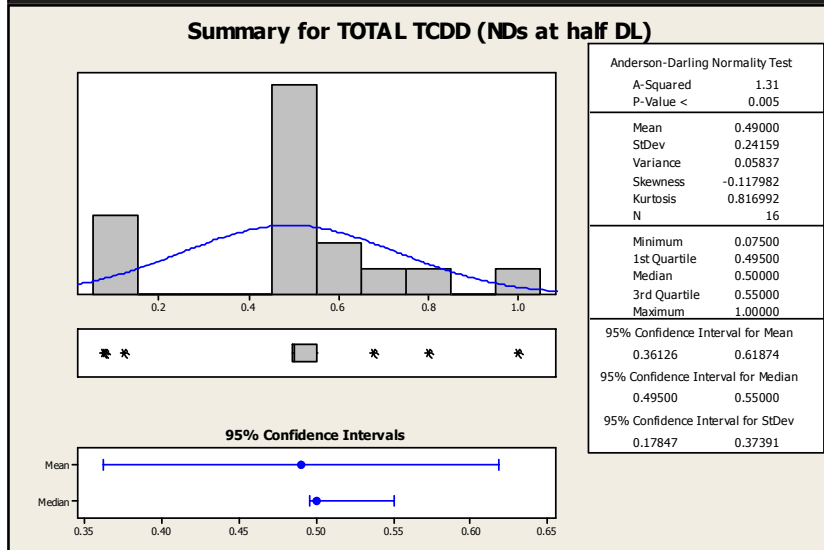
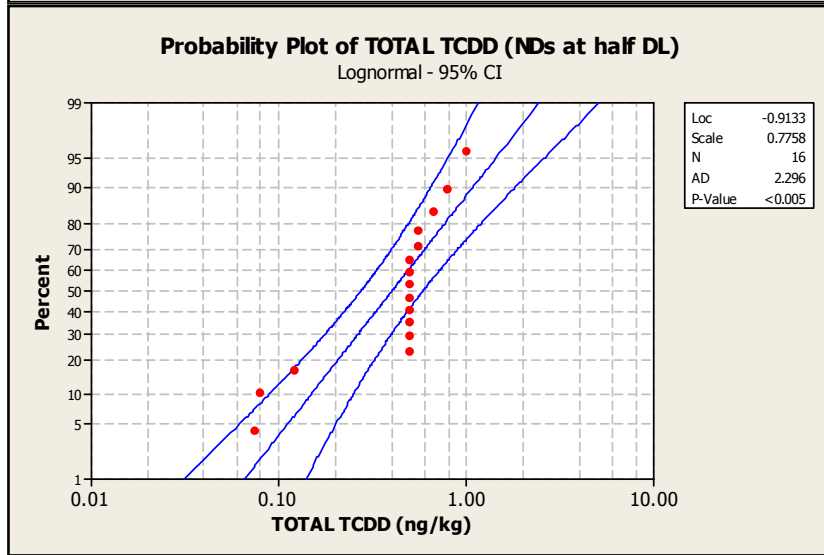
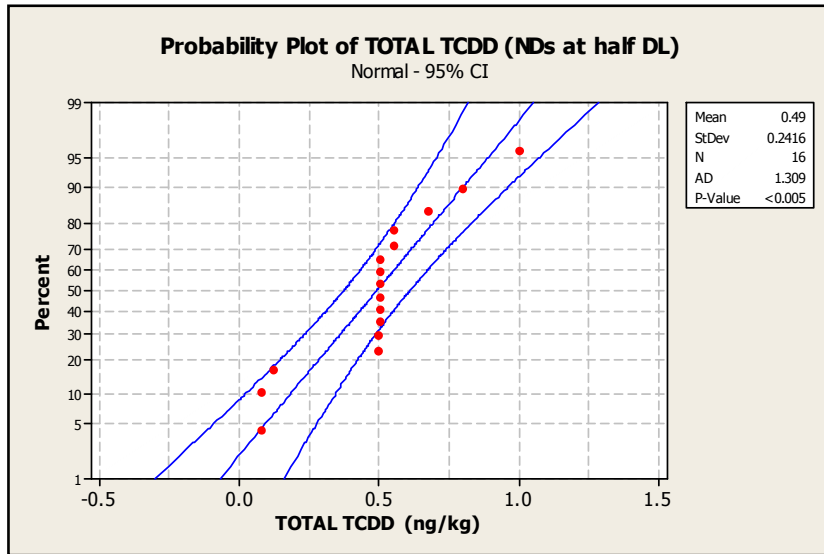
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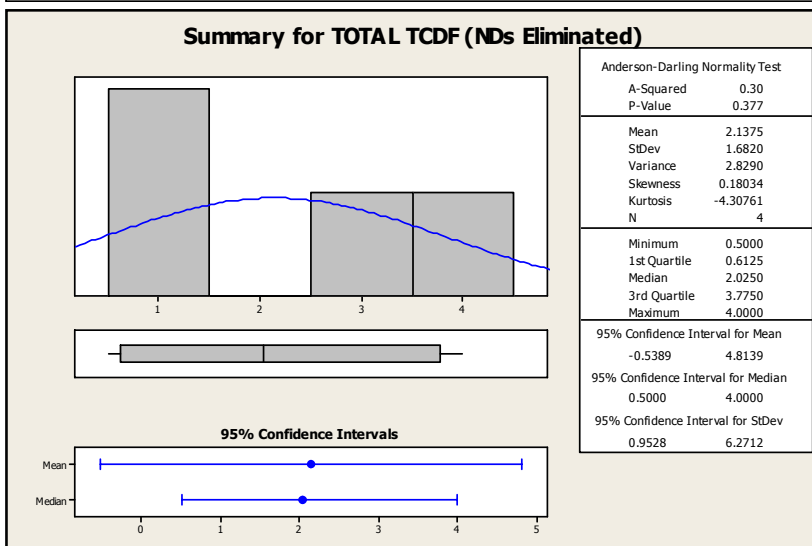
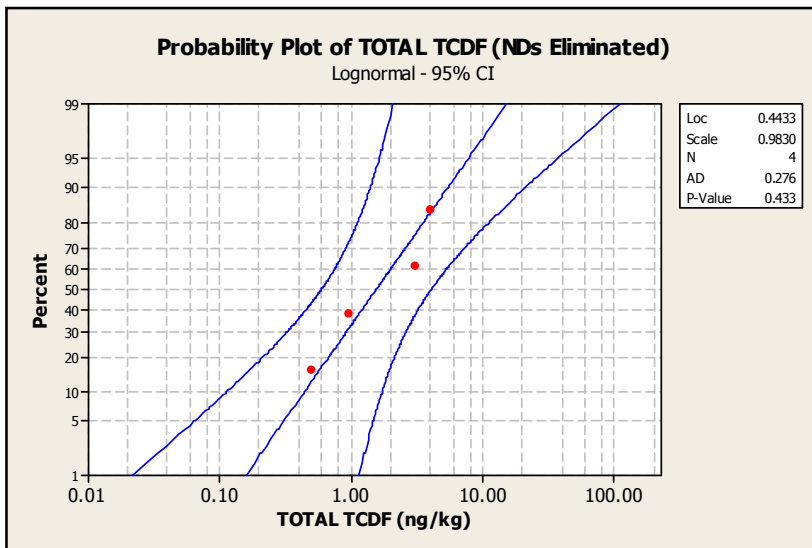
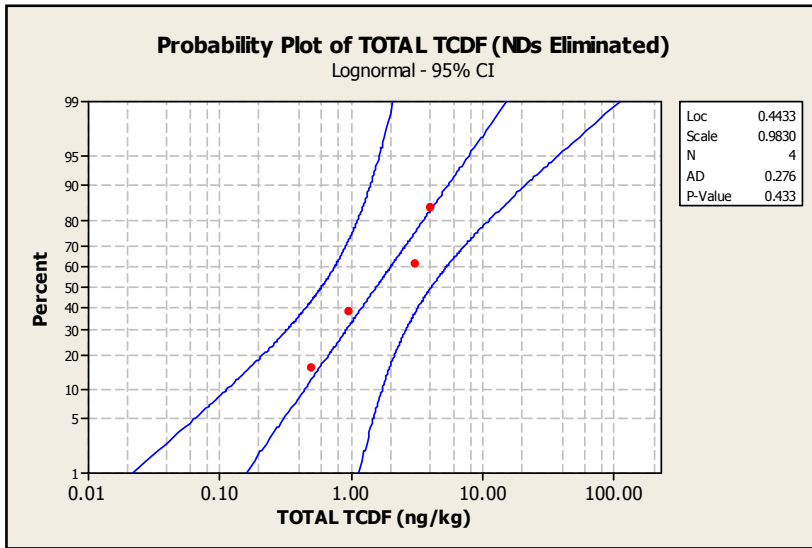
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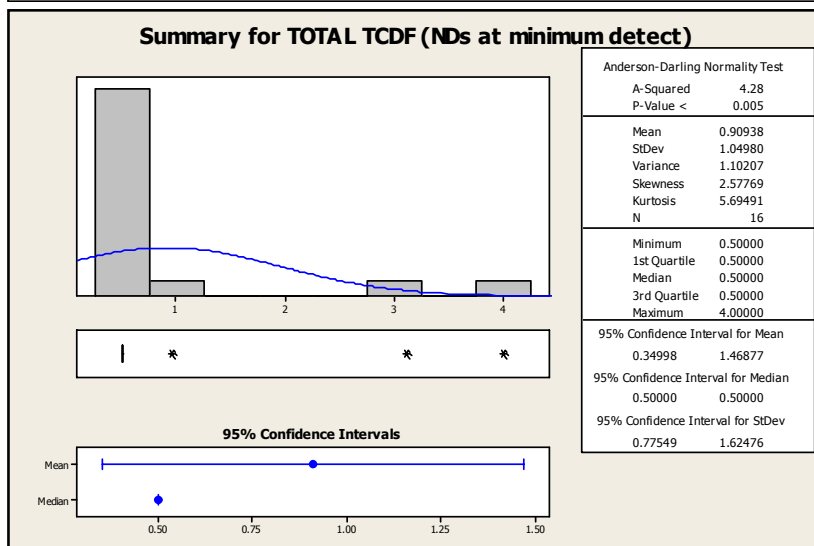
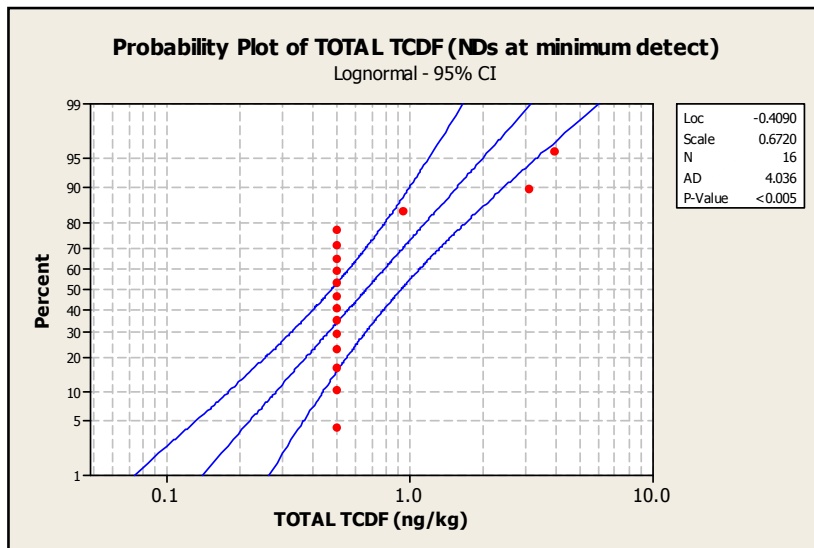
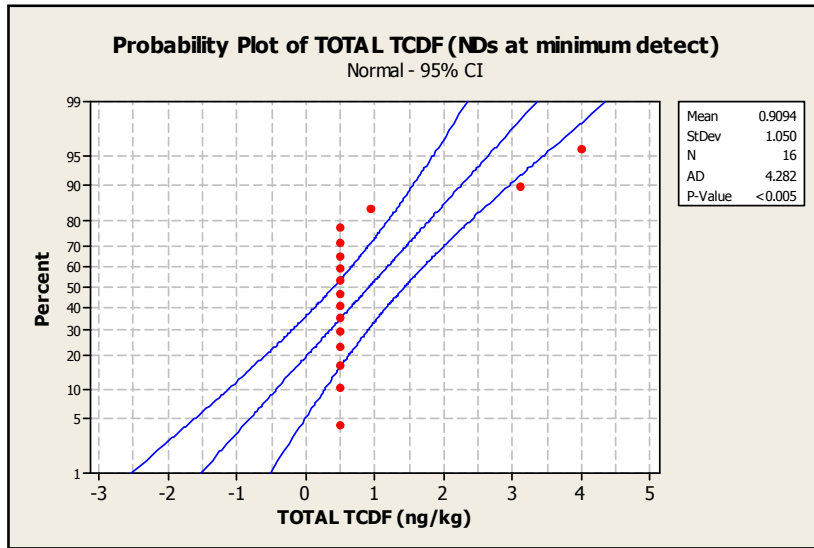
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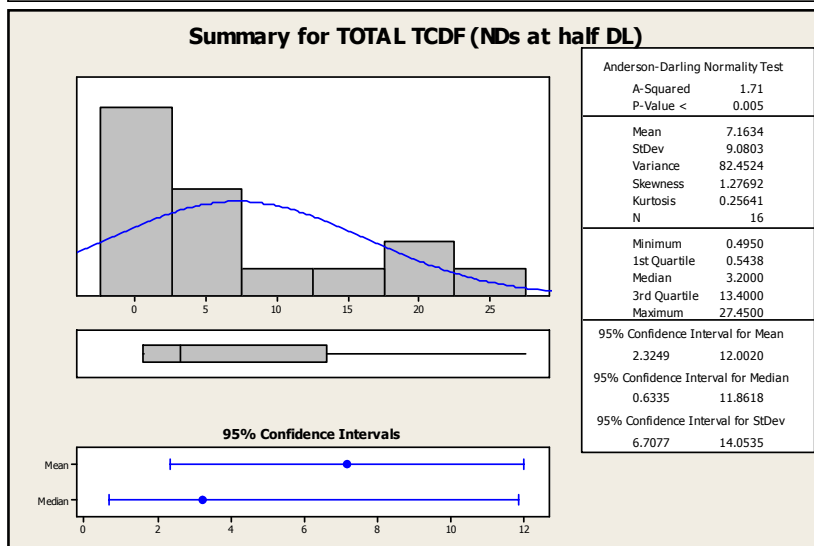
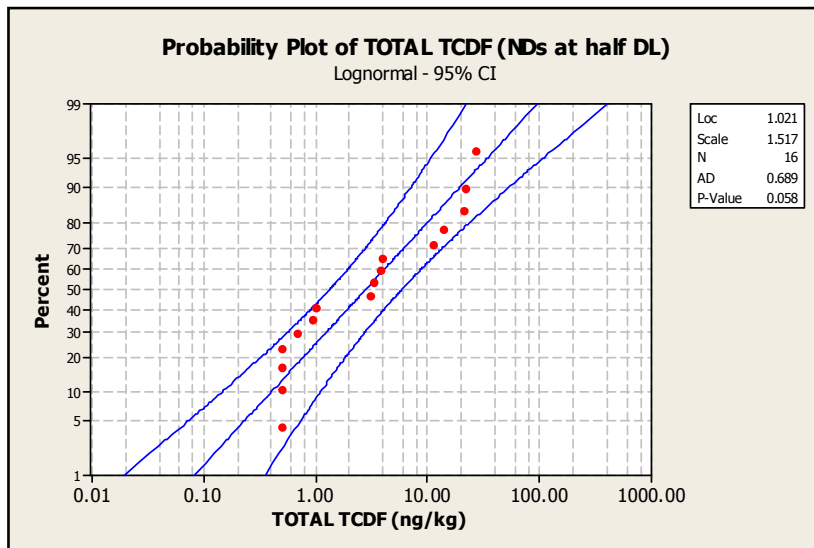
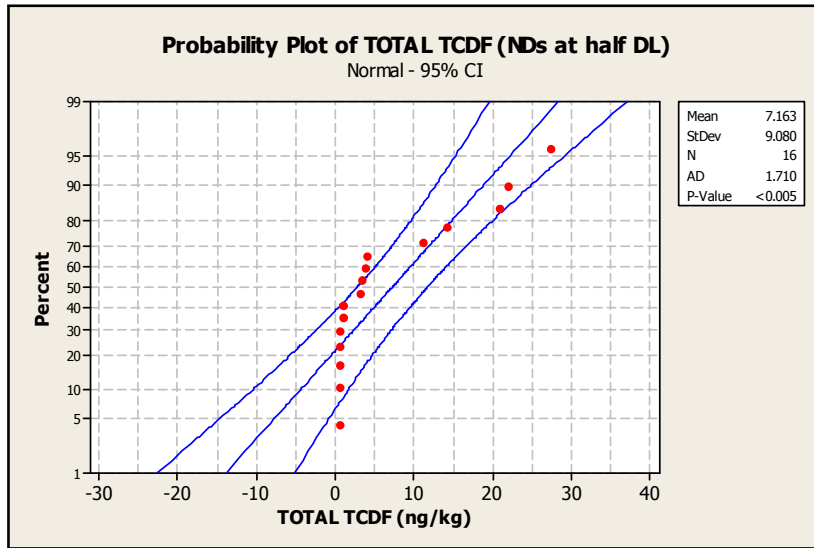
TOTAL TCDF (Page 1 of 3)



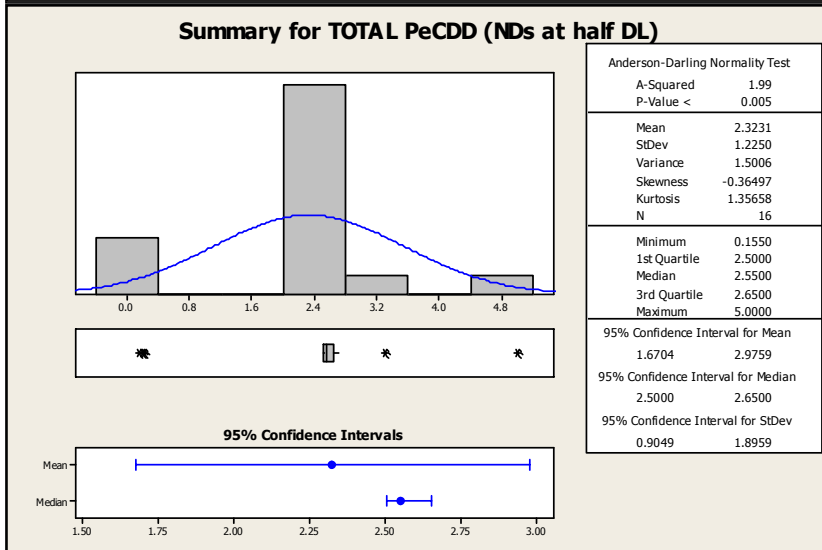
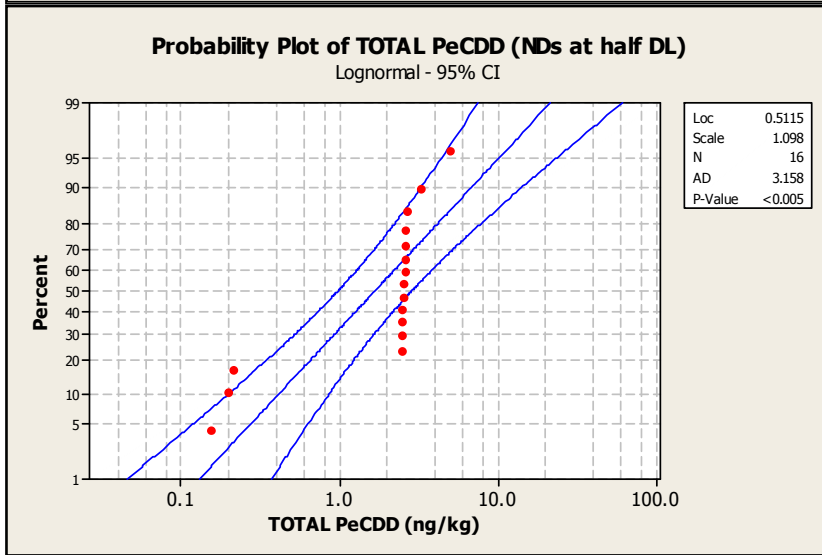
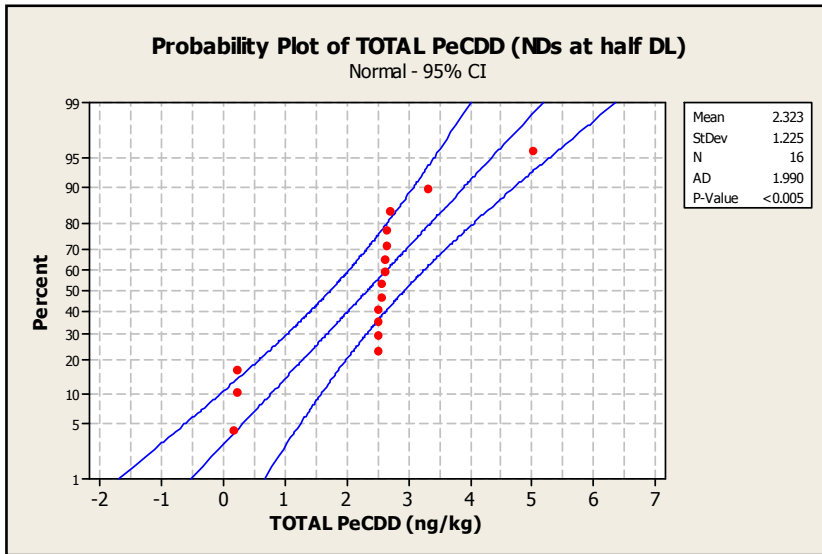
TOTAL TCDF (Page 2 of 3)



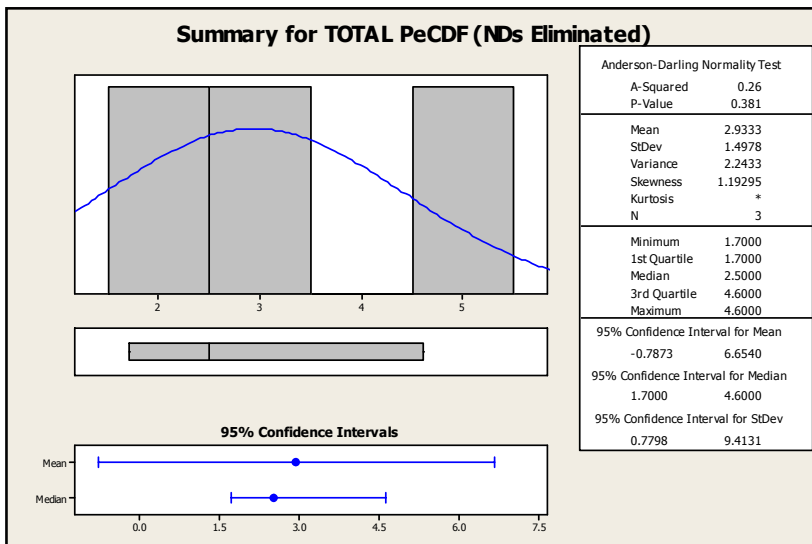
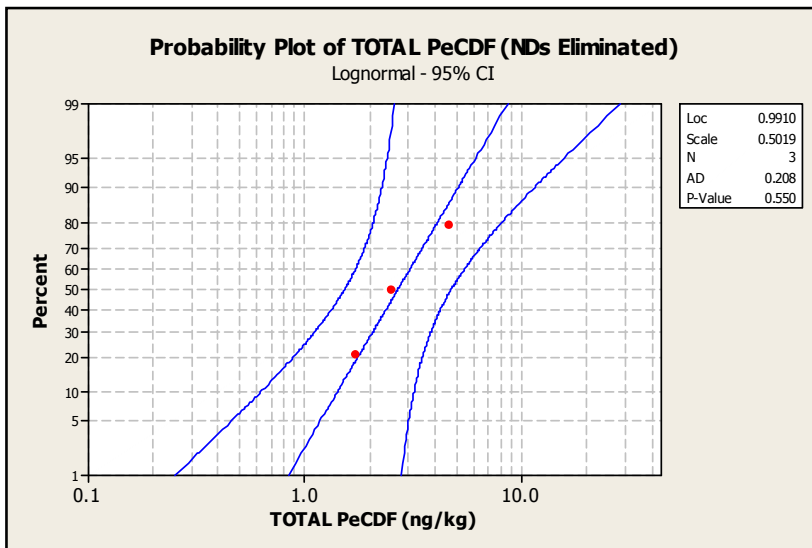
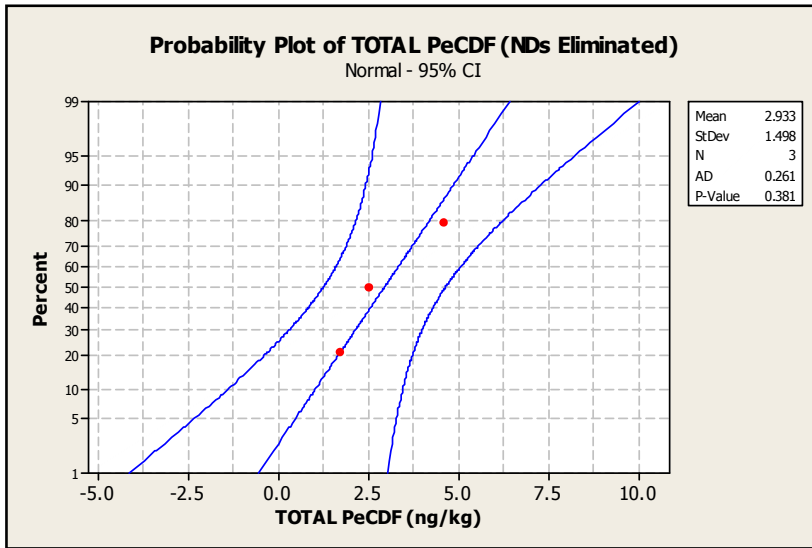
TOTAL TCDF (Page 3 of 3)



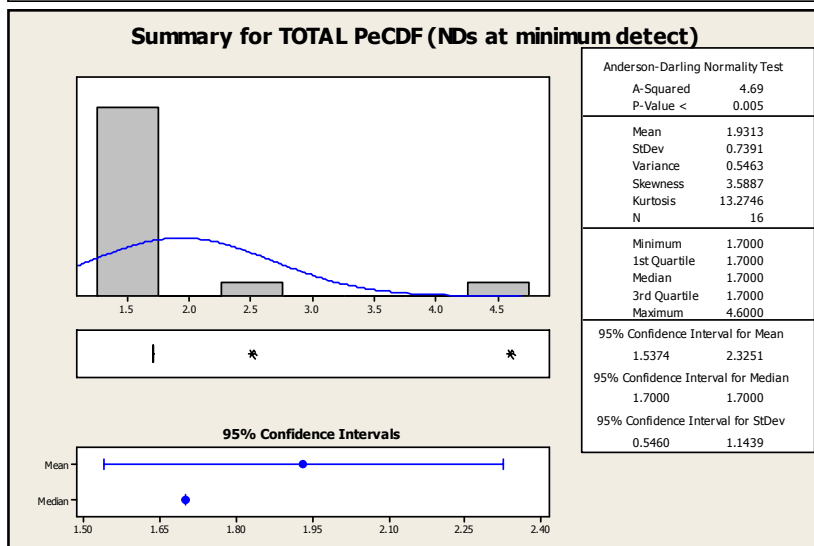
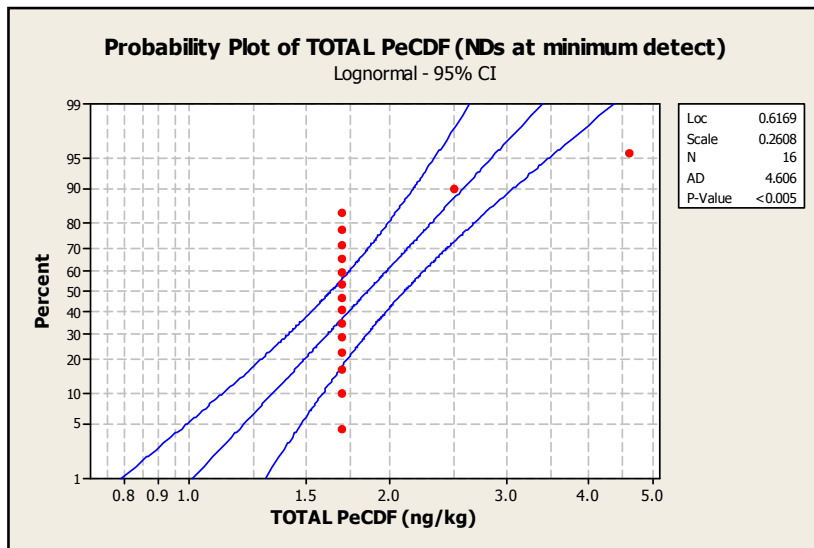
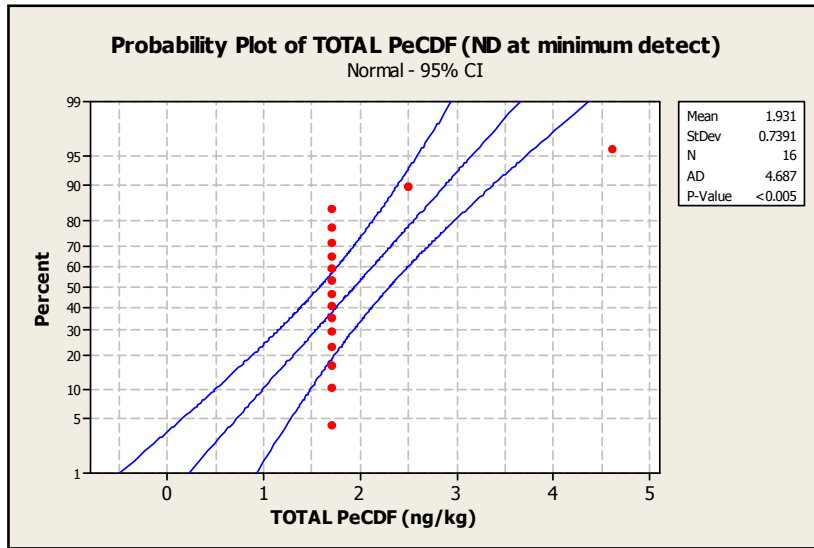
TOTAL PeCDD (Page 1 of 1)



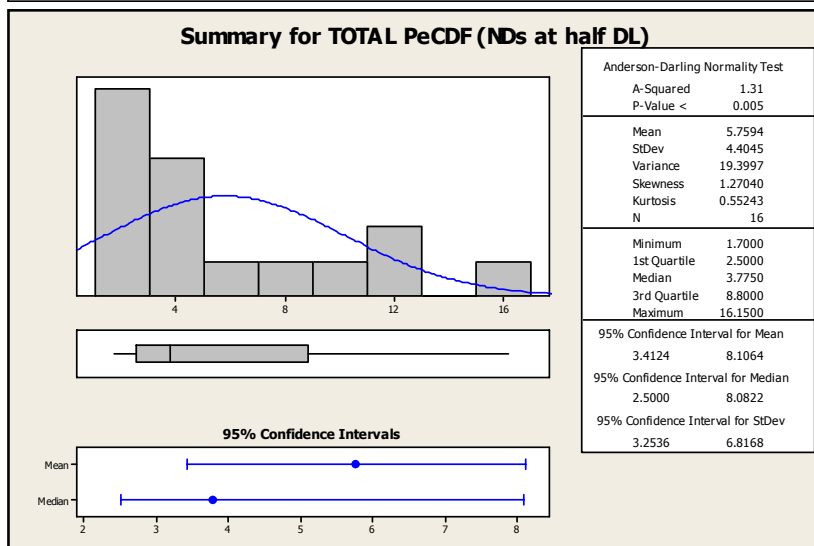
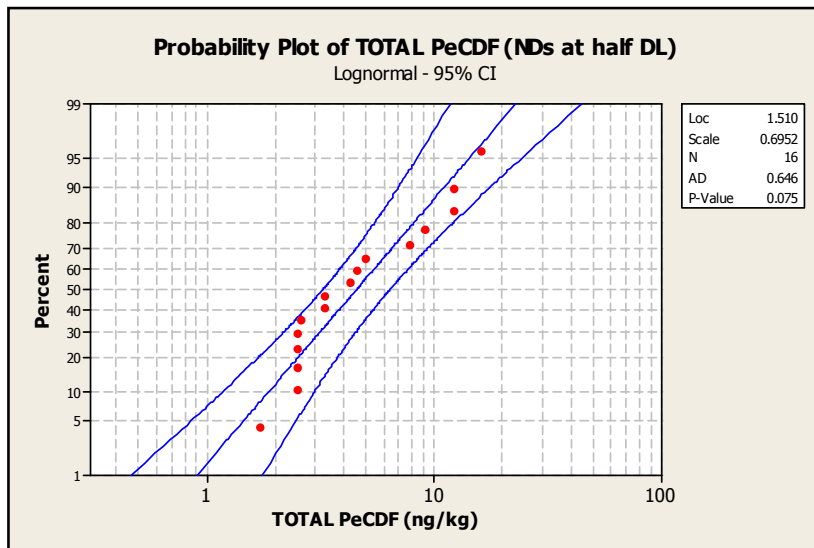
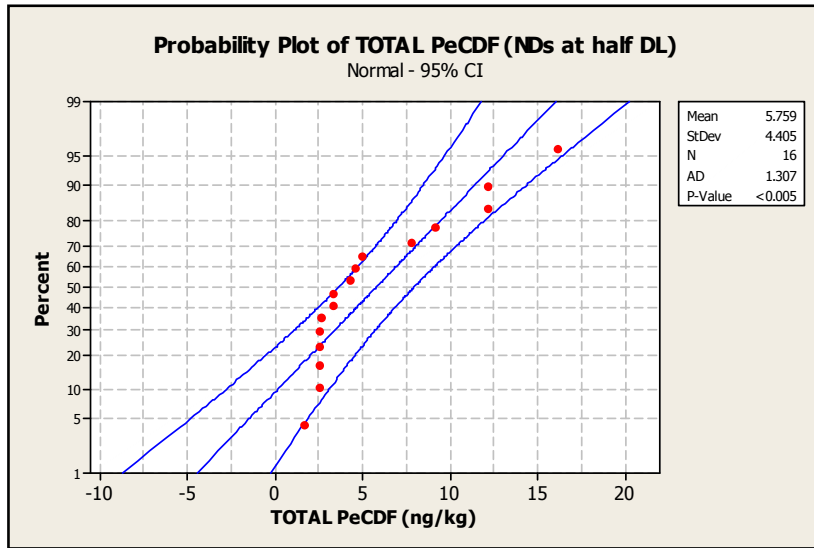
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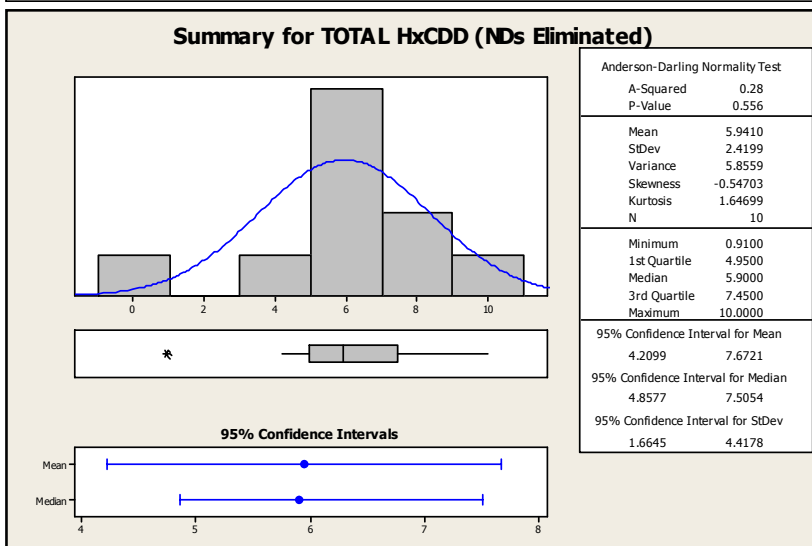
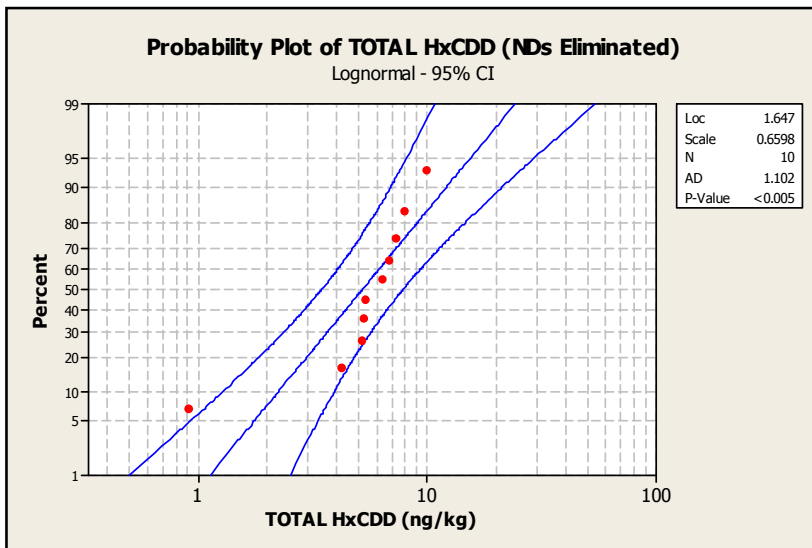
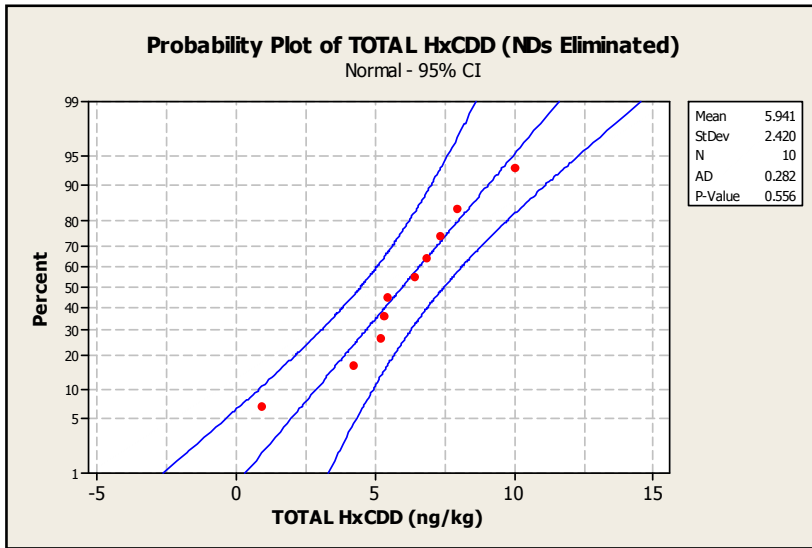


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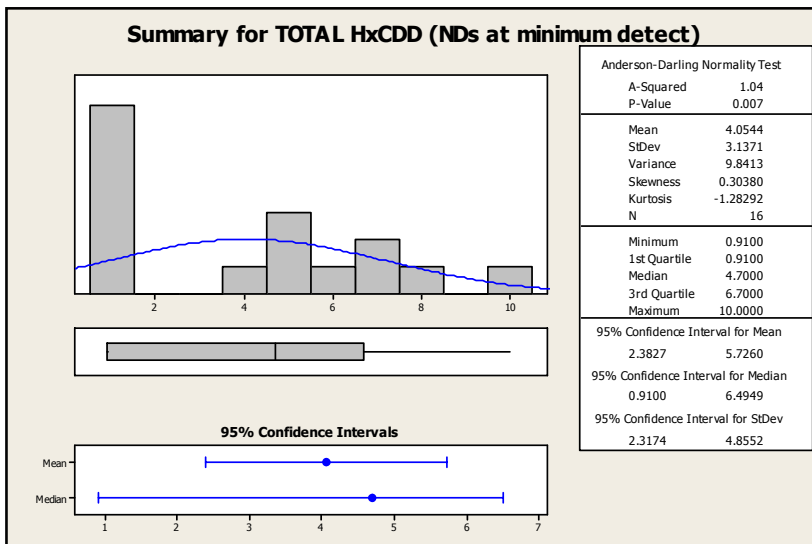
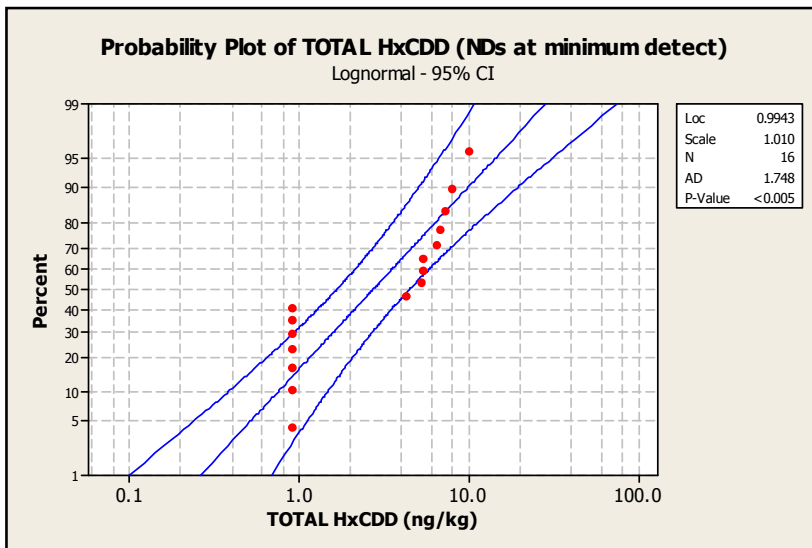
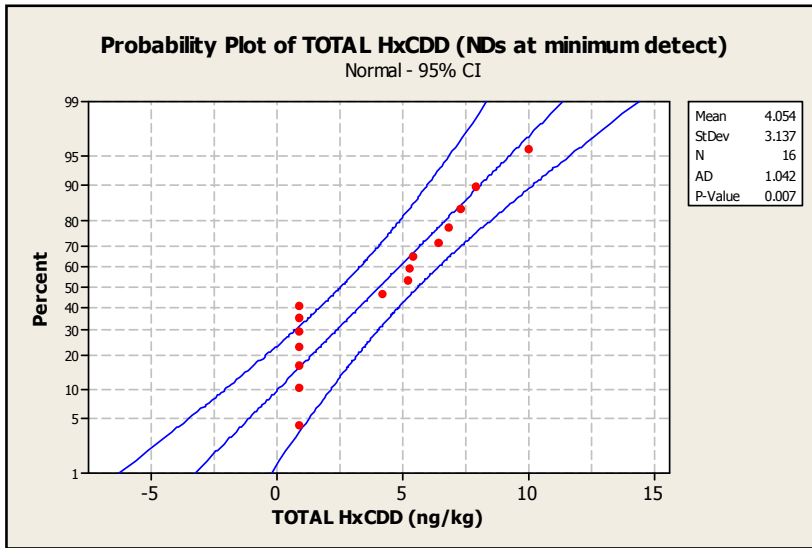
TOTAL HxCDD

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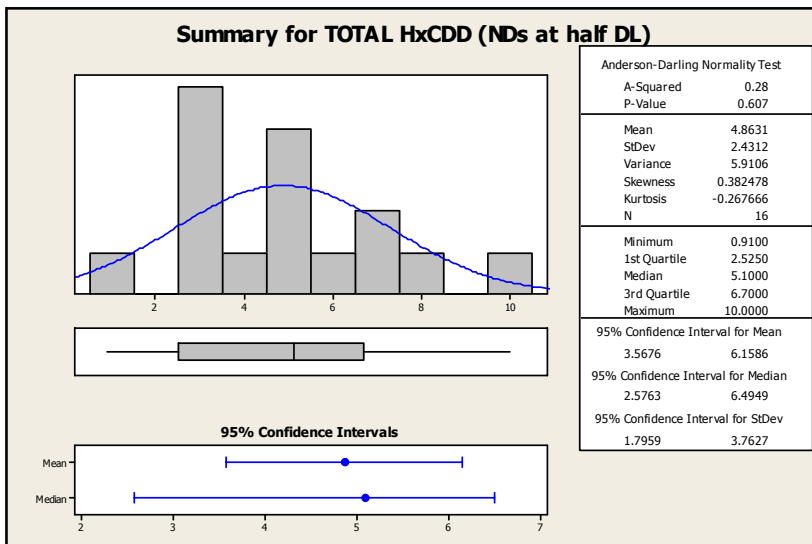
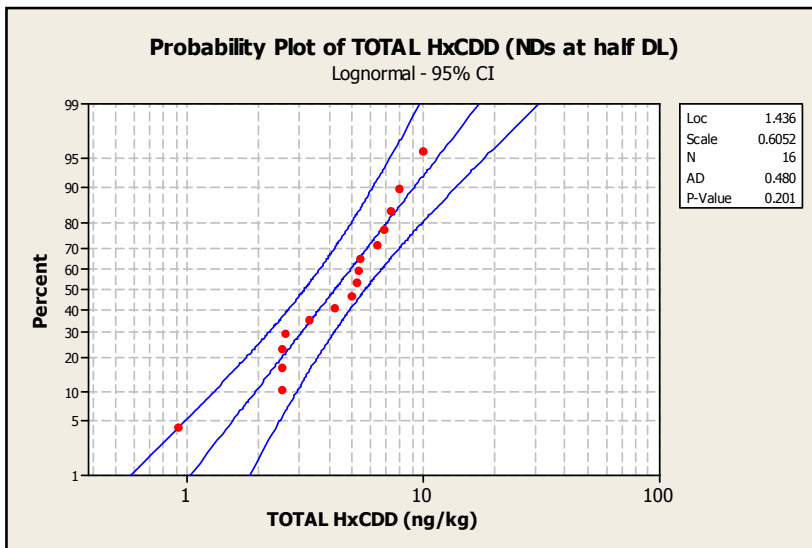
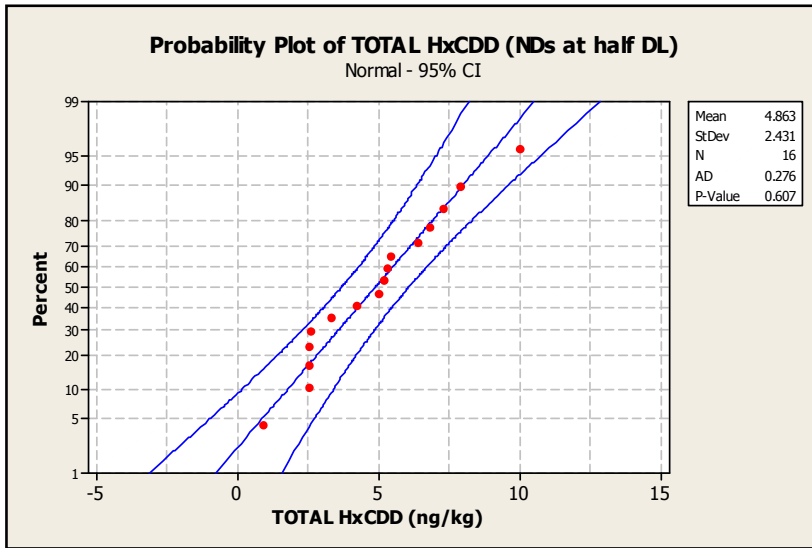
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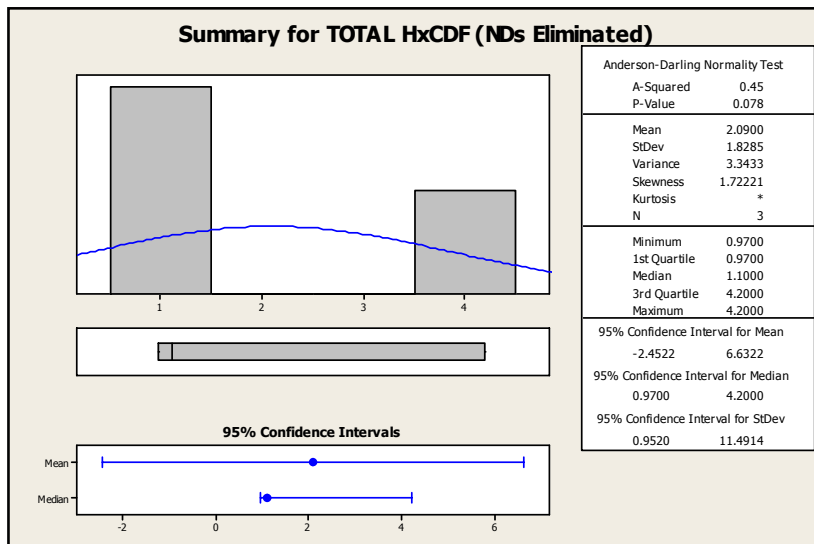
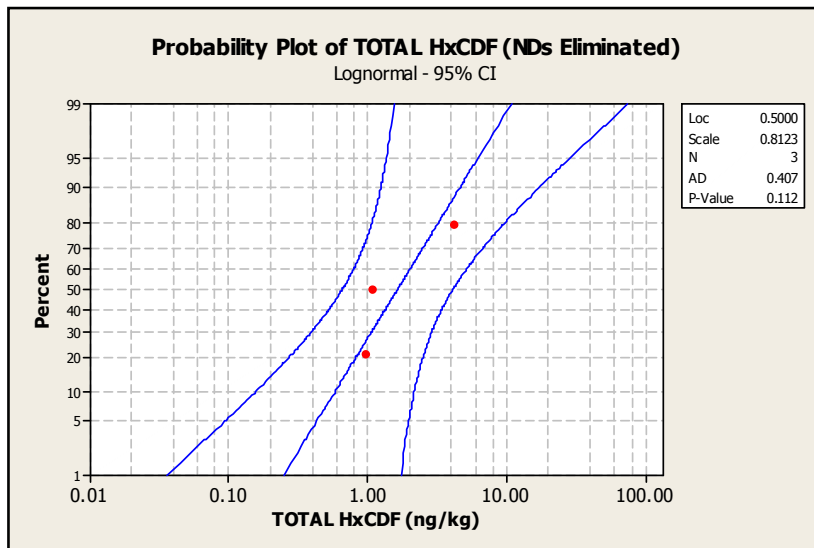
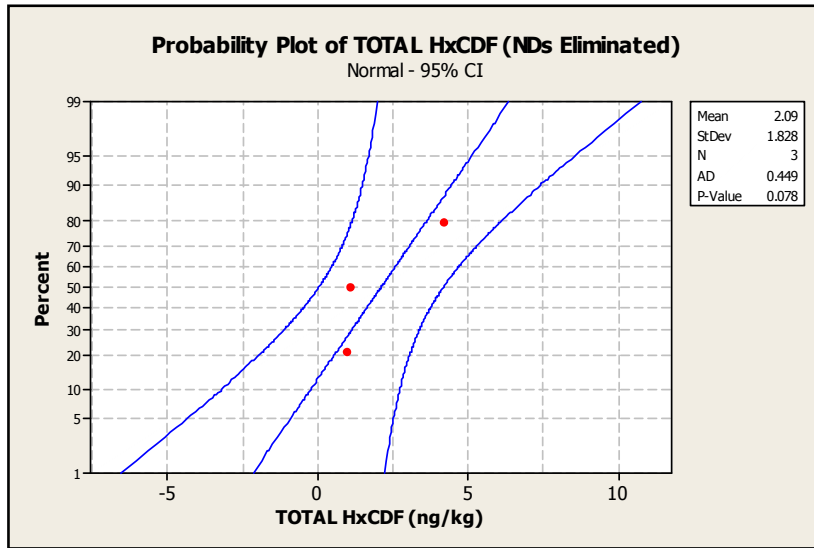


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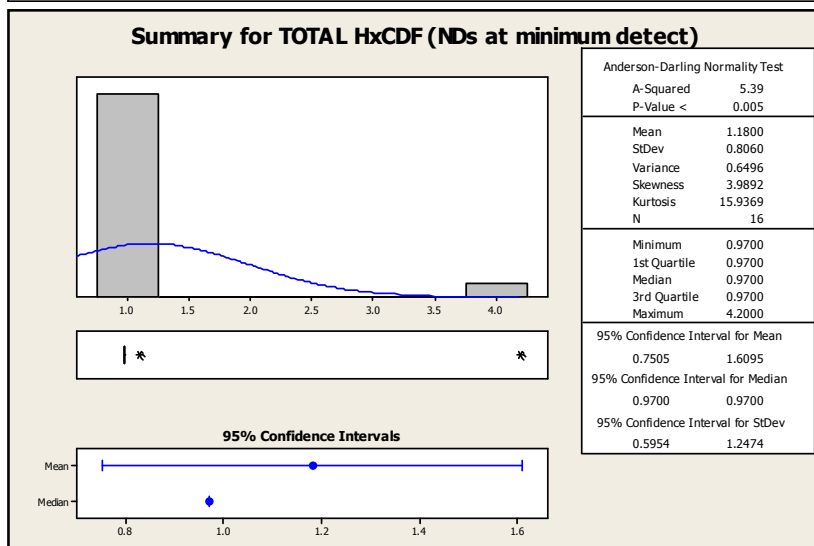
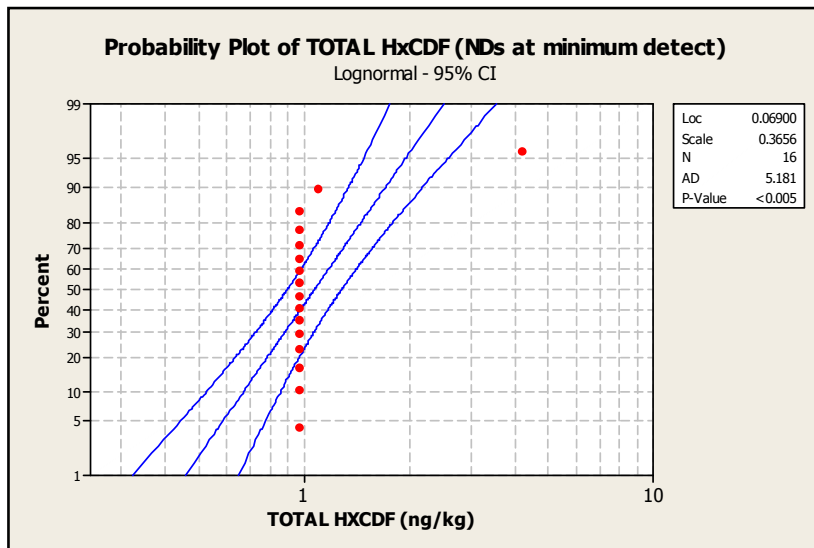
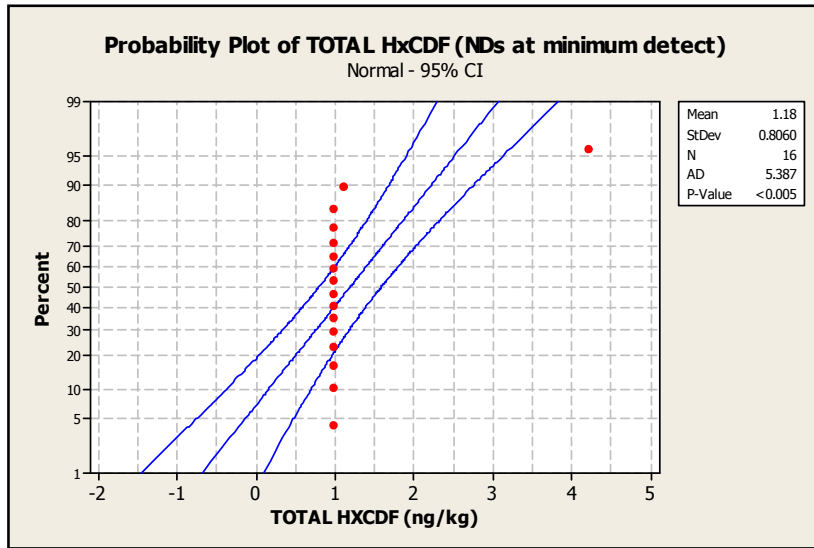


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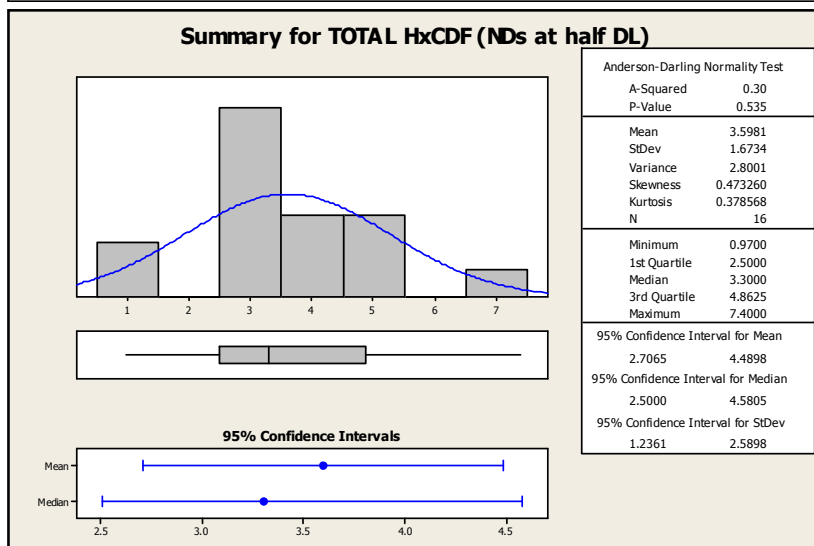
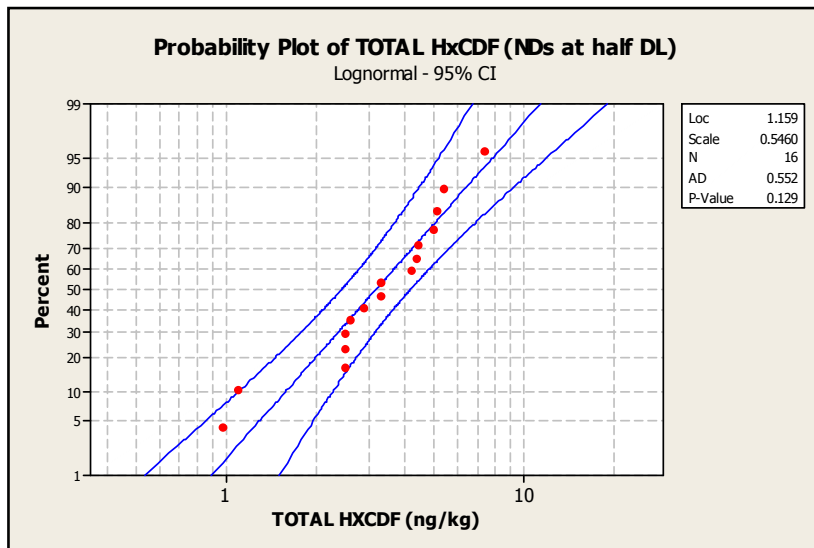
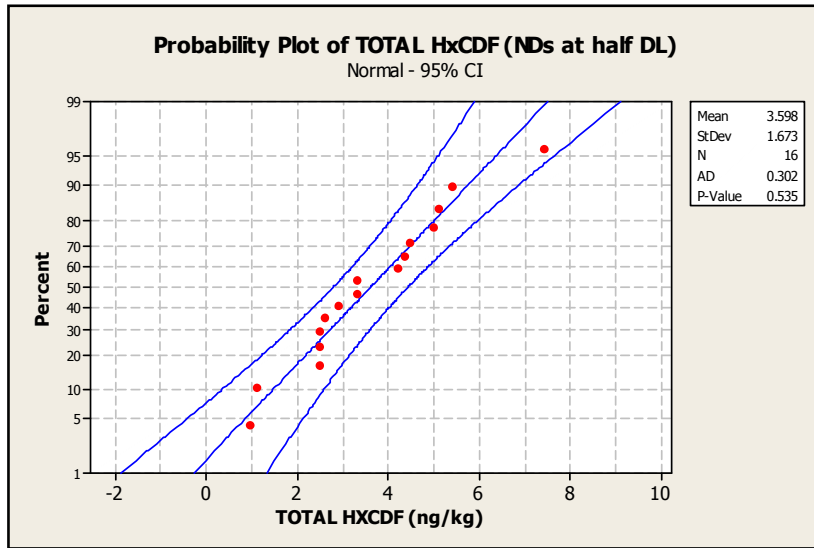
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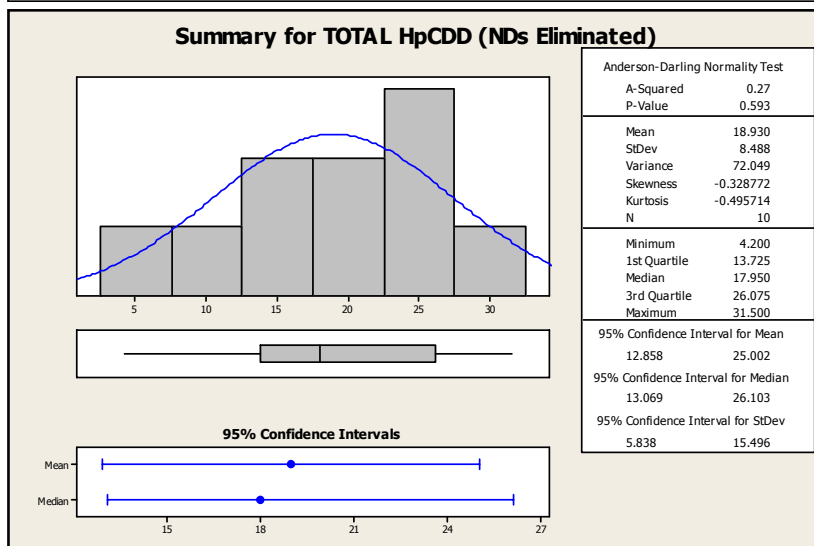
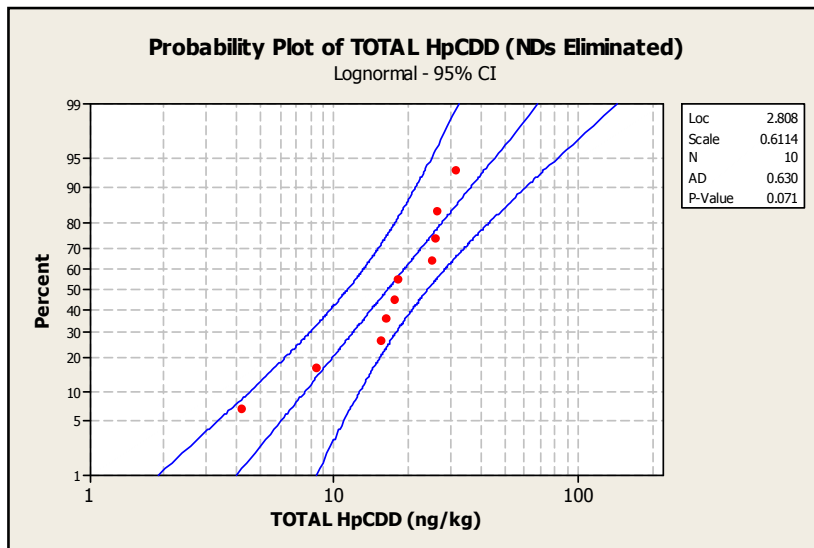
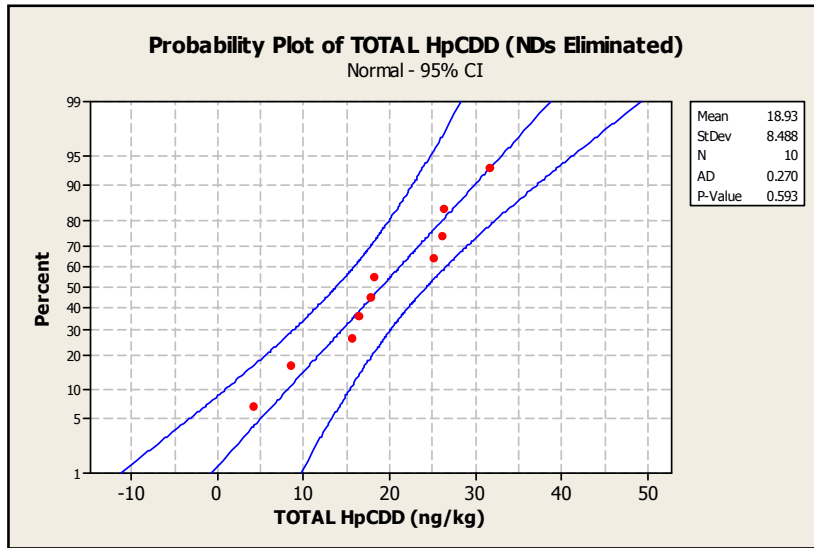


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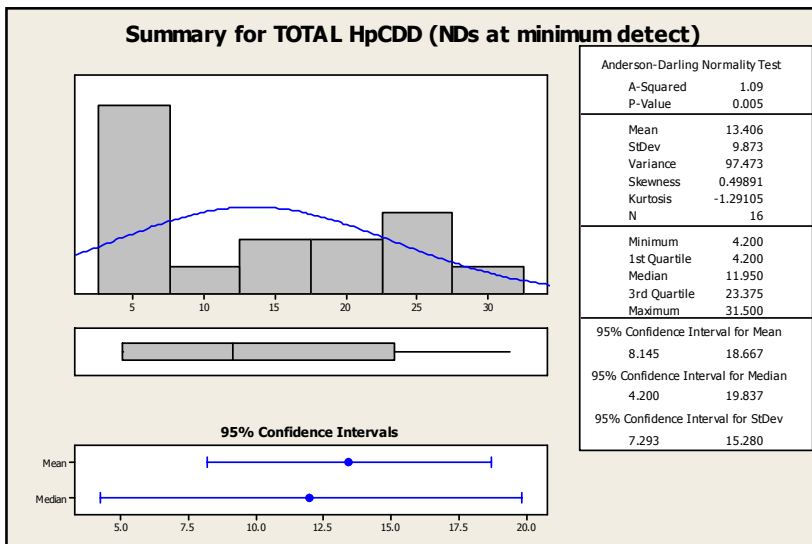
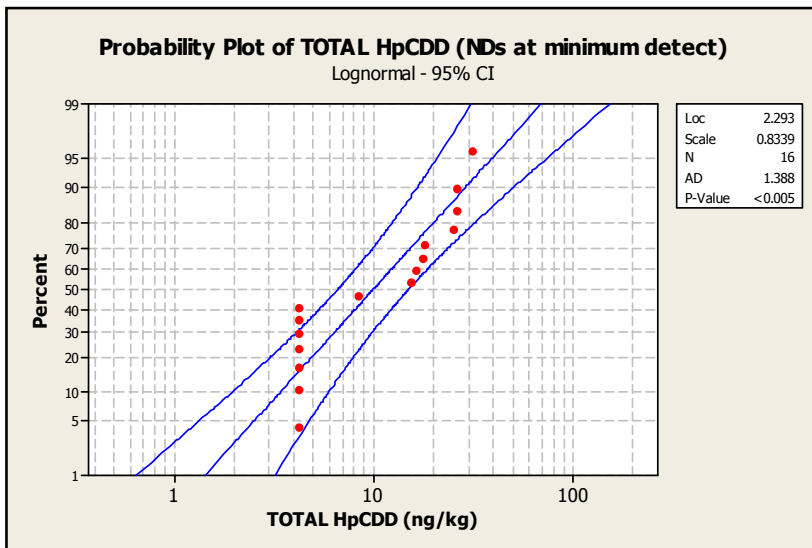
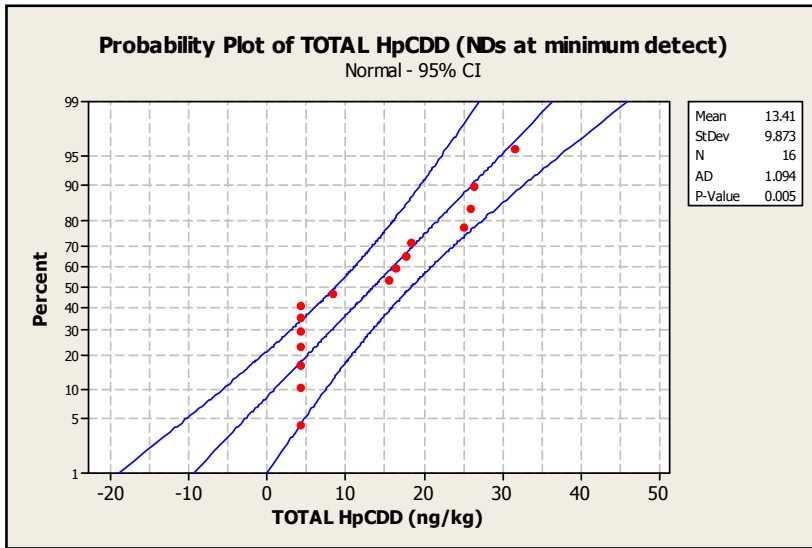


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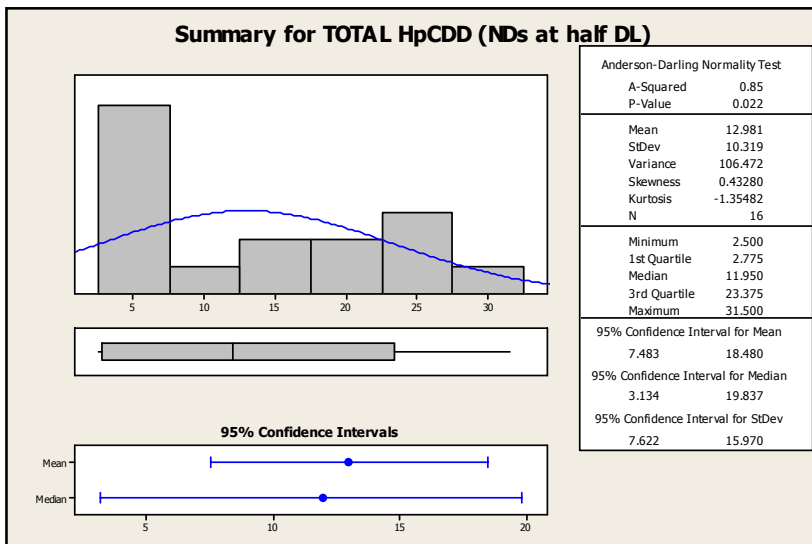
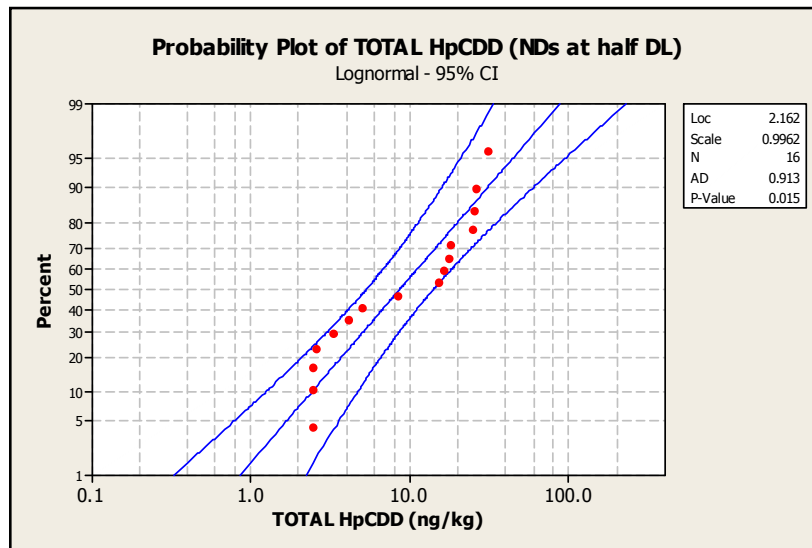
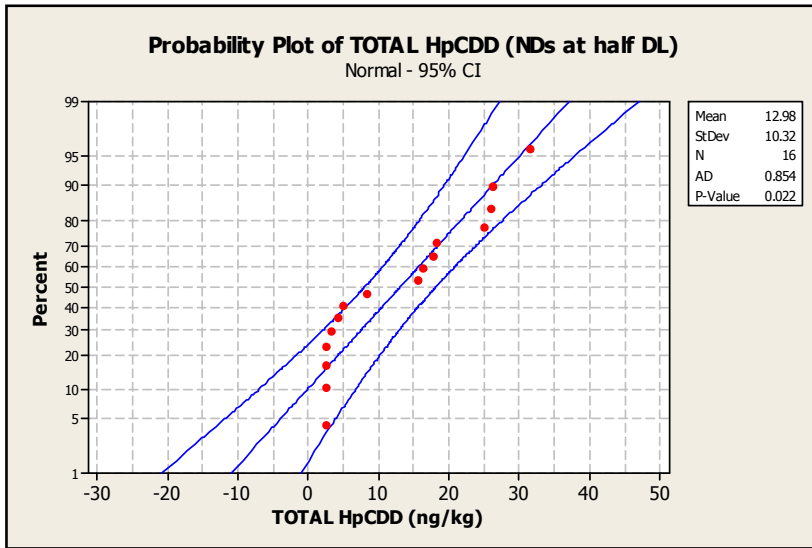


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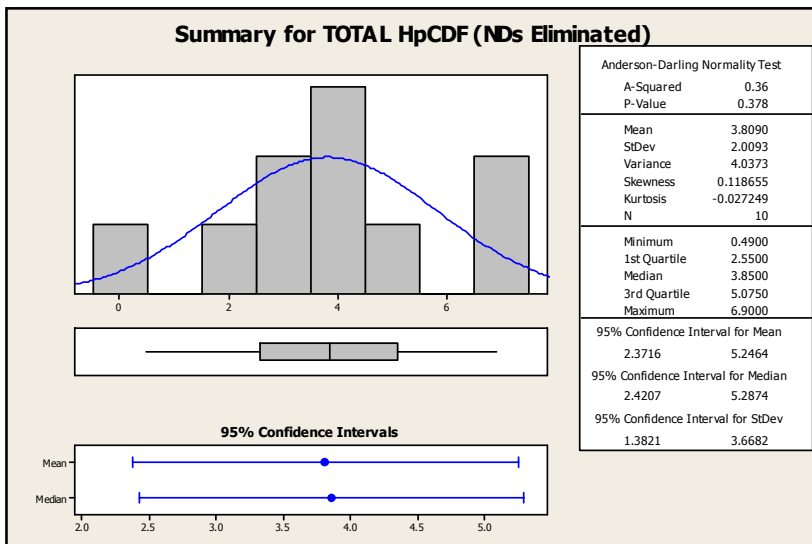
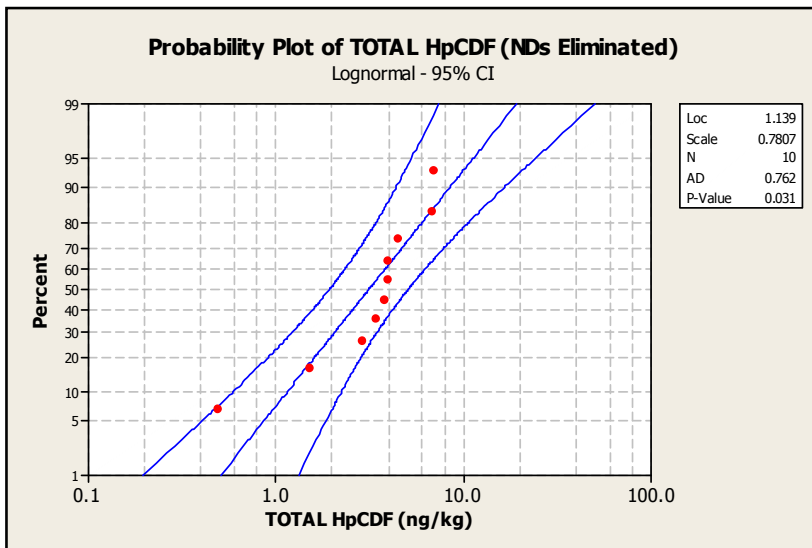
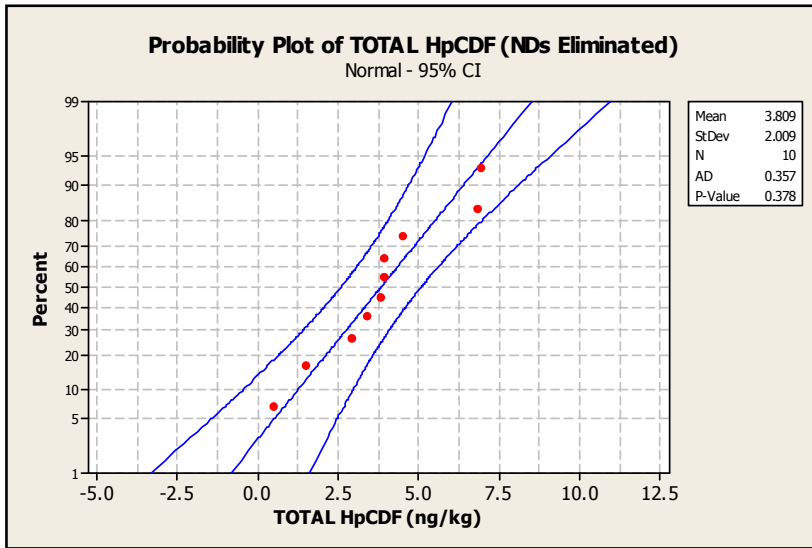
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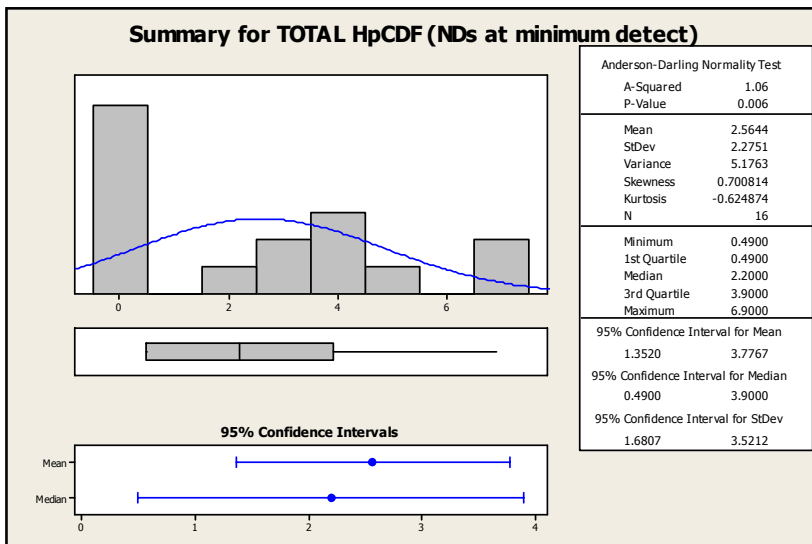
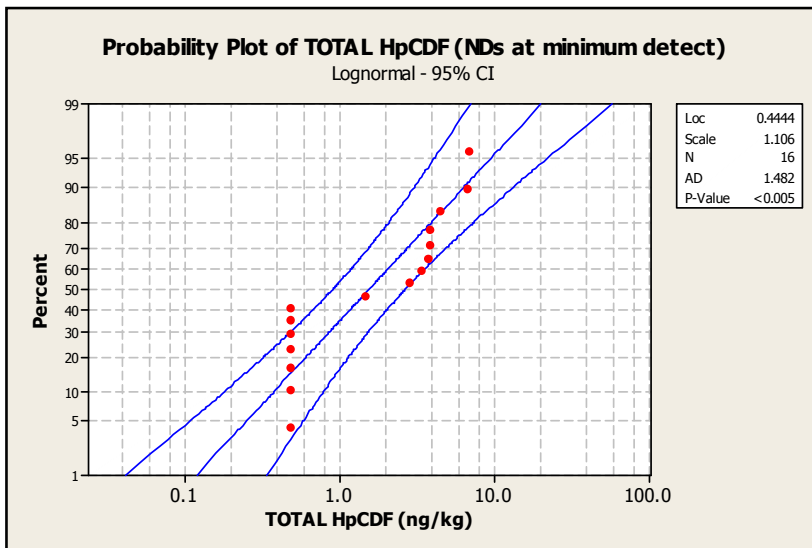
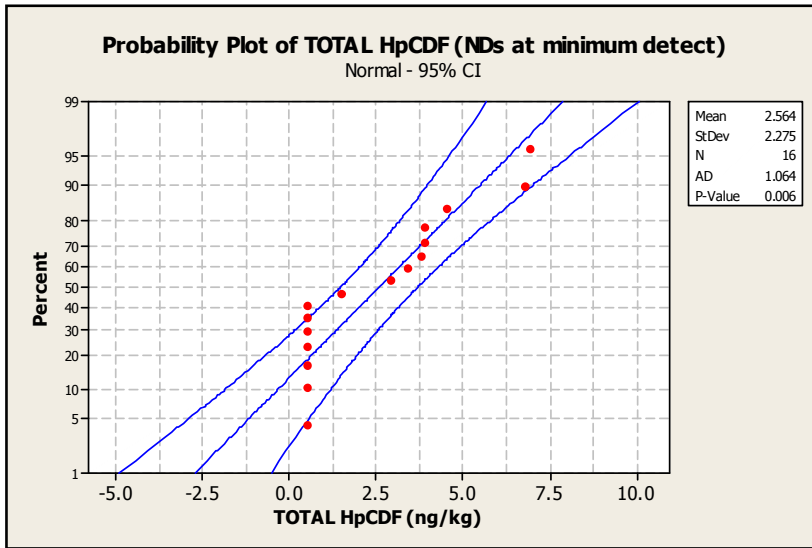
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