ICF IC Calibration Report (v1)

20250909 BLIZZARD NORTH: Anion 44 & Cation 38

Generated 2025-11-26 16:08:00 by MHarris (HUTL21335)

Contents

This is an automatically generated report for the following calibration sequence:

20250909_BLIZZARD_NORTH_Calibration_Anion_44_Cation_38.xls

Anions

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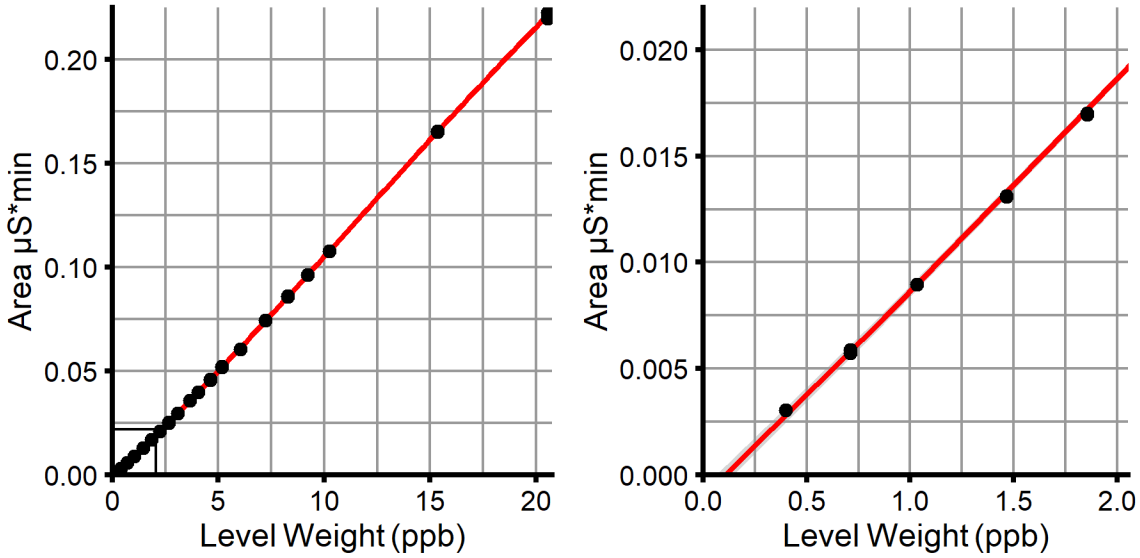
Fluoride, valid n = 38, Cubic, WithOffset
BLIZZARD_NORTH, Anion 44, 09/09/2025
y = -4.179E-06*x³ + 1.47E-04*x² + 9.571E-03*x - 1.106E-03
R² = 0.99995
```

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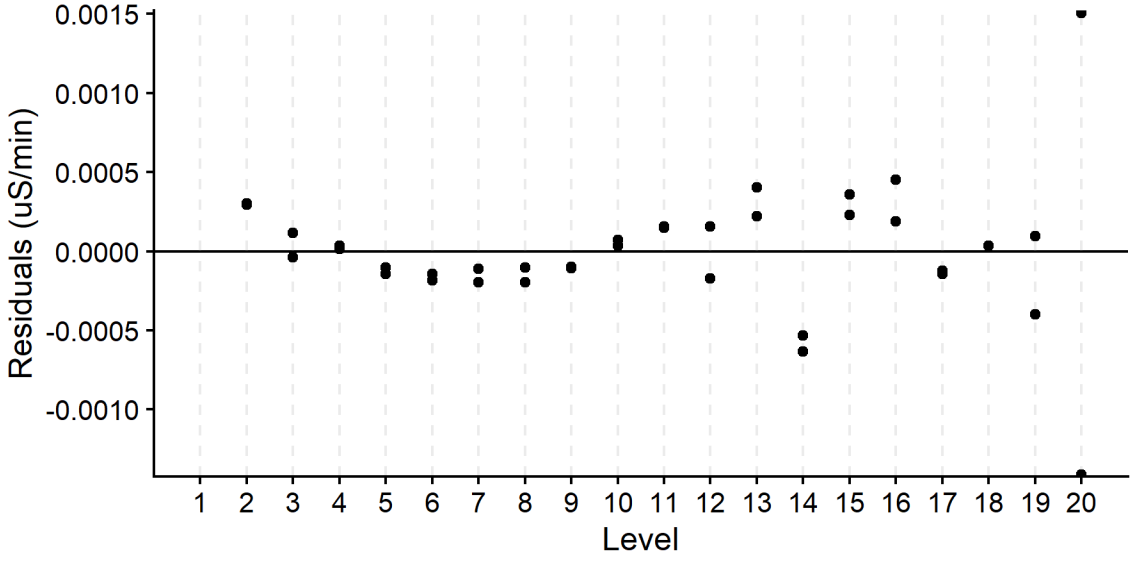


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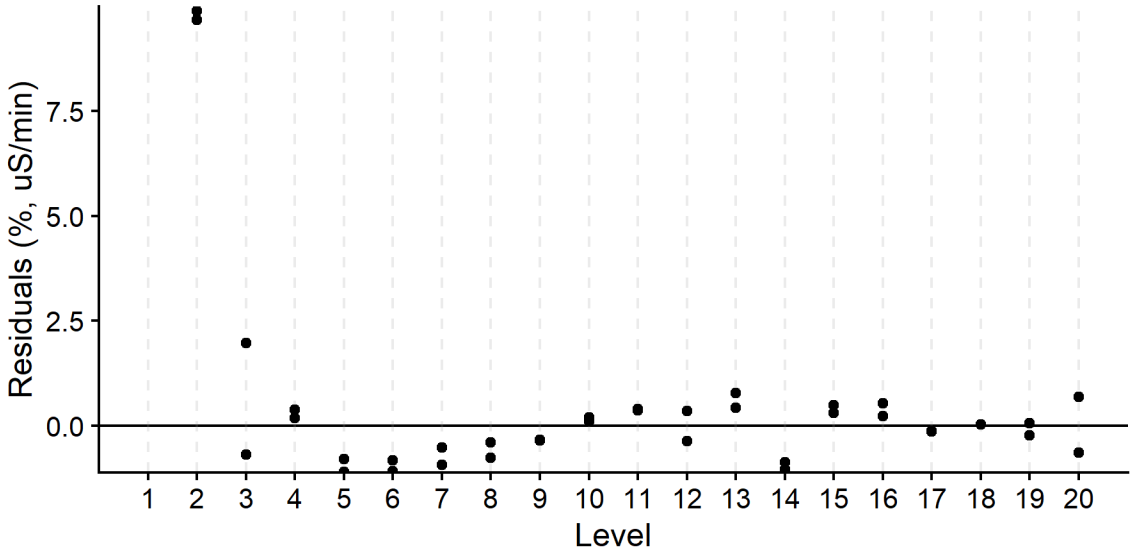


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MSA, valid n = 40, Cubic, WithOffset
BLIZZARD_NORTH, Anion 44, 09/09/2025
y = -1.056E-08*x³ + 3.396E-06*x² + 1.866E-03*x - 1.139E-03
R² = 0.99991
```

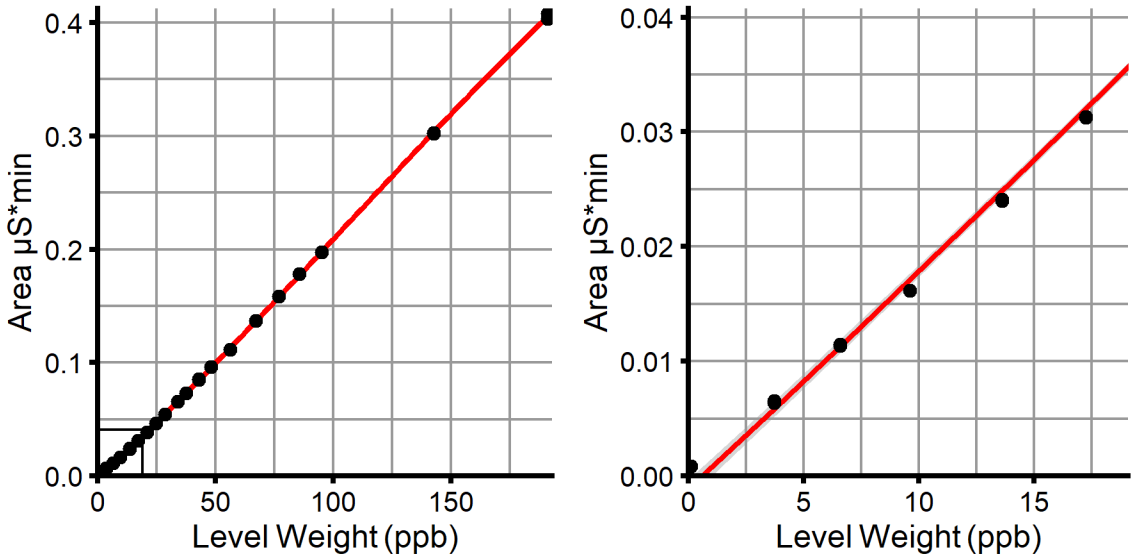

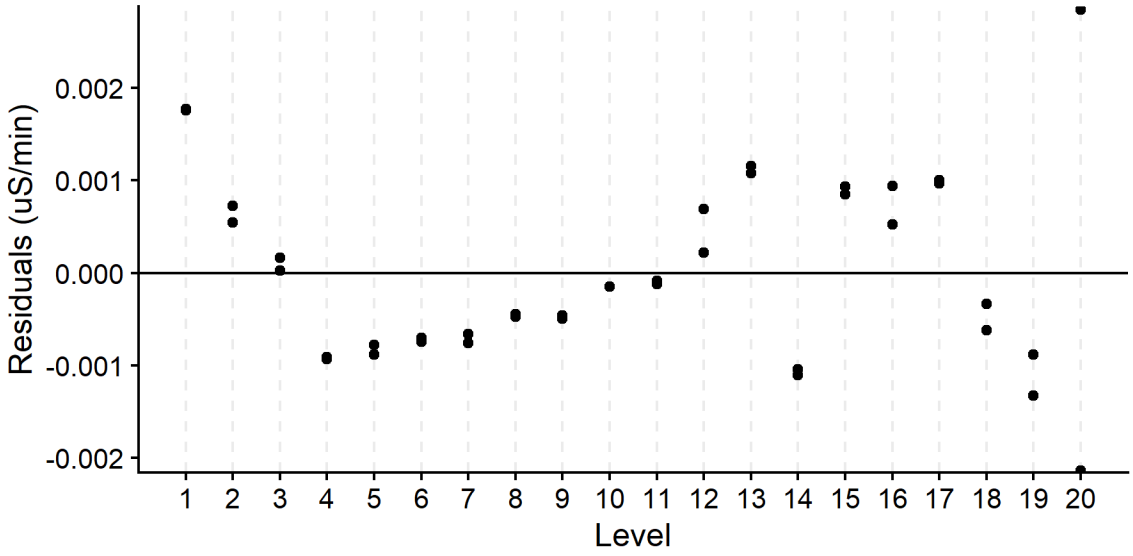

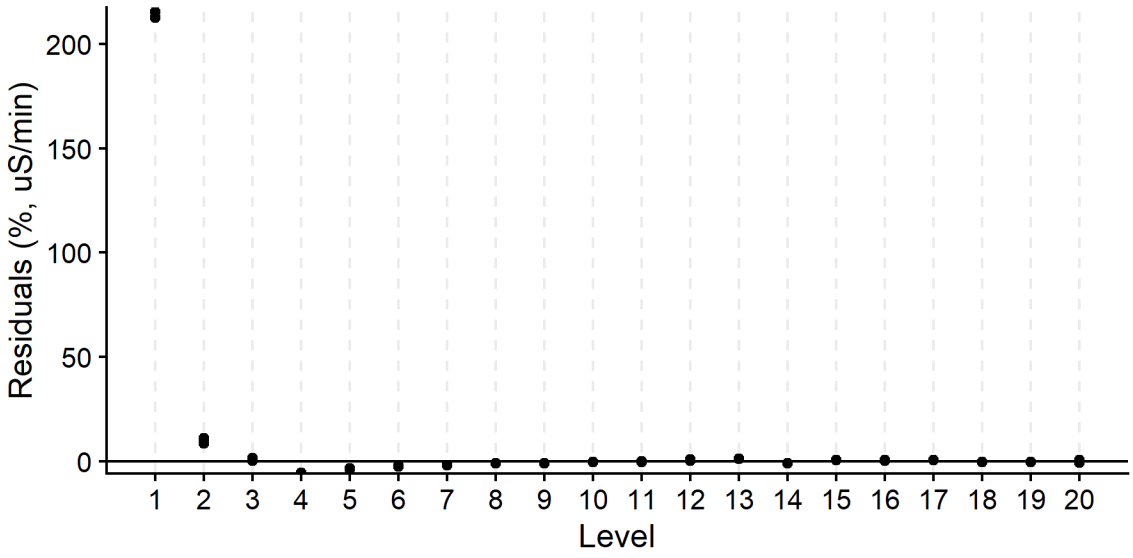


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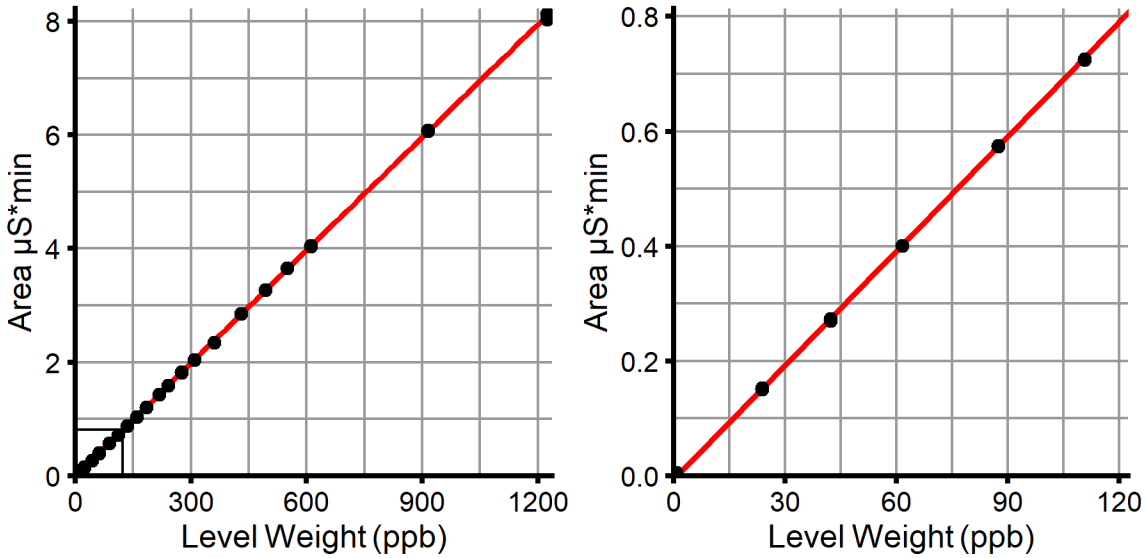
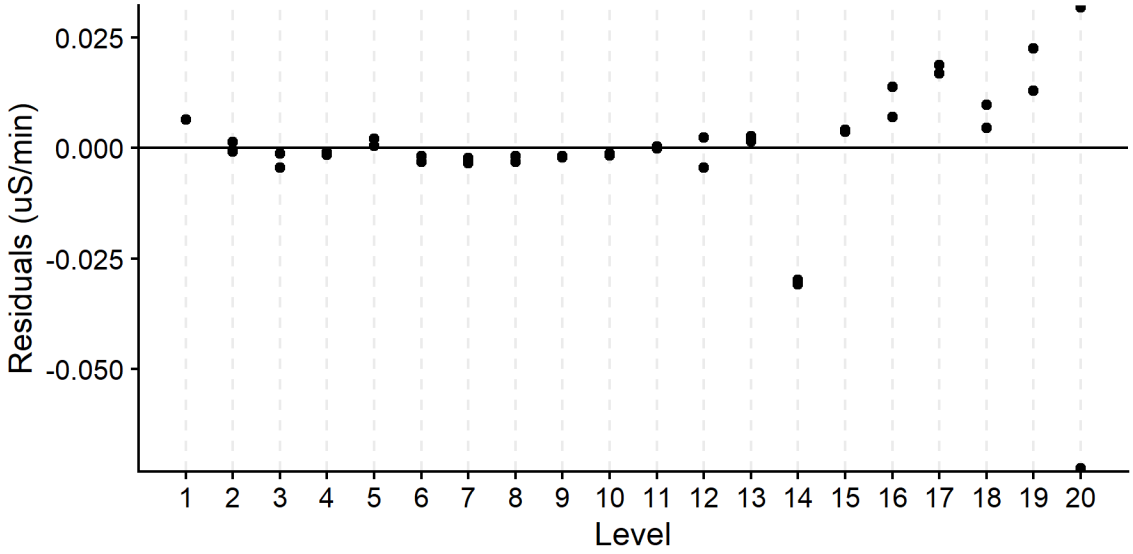
Chloride, valid n = 40, Lin, WithOffset
BLIZZARD_NORTH, Anion 44, 09/09/2025
y = 6.627E-03*x - 5.88E-03
R² = 0.99994
```


Area µS*min
Level Weight (ppb)
0
2
4
6
8
0
300
600
900
1200
Area µS*min
Level Weight (ppb)
0.0
0.2
0.4
0.6
0.8
0
30
60
90
120


Residuals (uS/min)
Level
0.025
0.000
-0.025
-0.050
1
2
3
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5
6
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8
9
10
11
12
13
14
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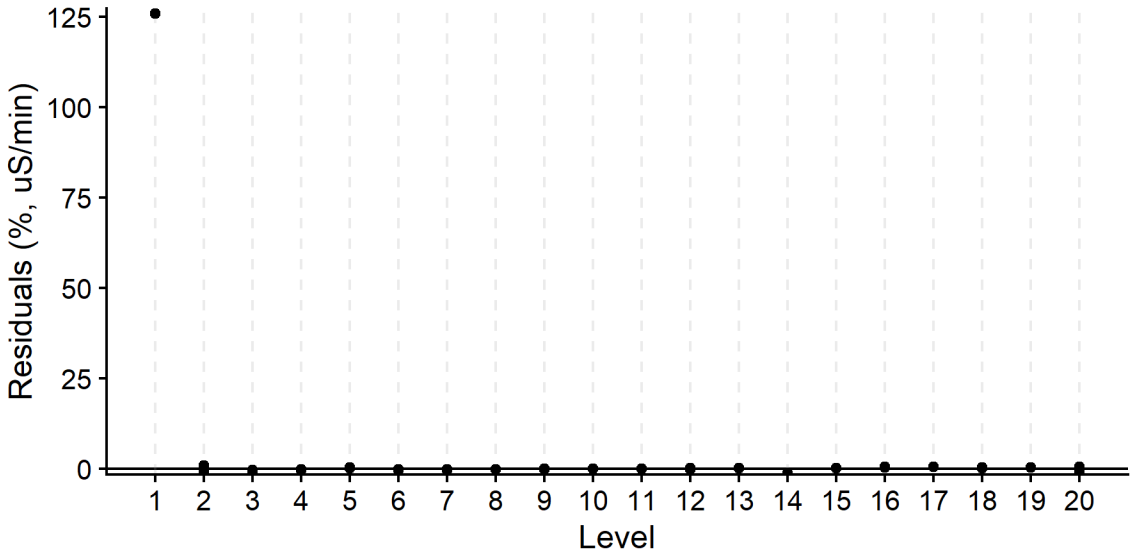
16
17
18
19
20

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Nitrite, valid n = 38, Cubic, WithOffset
BLIZZARD_NORTH, Anion 44, 09/09/2025
y = -1.067E-06*x³ + 4.633E-05*x² + 3.251E-03*x - 4.463E-05
R² = 0.99991
```

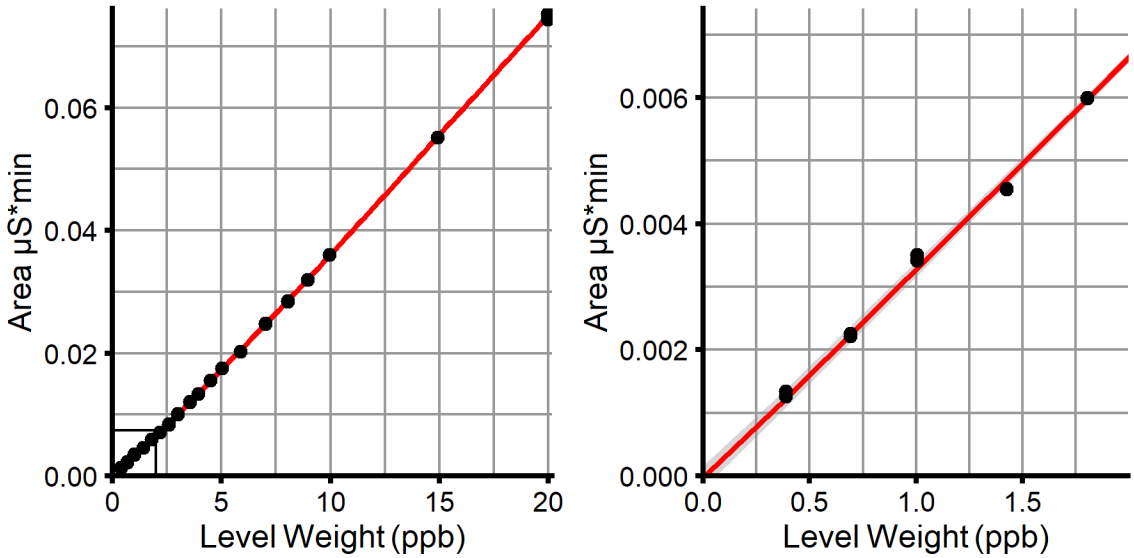


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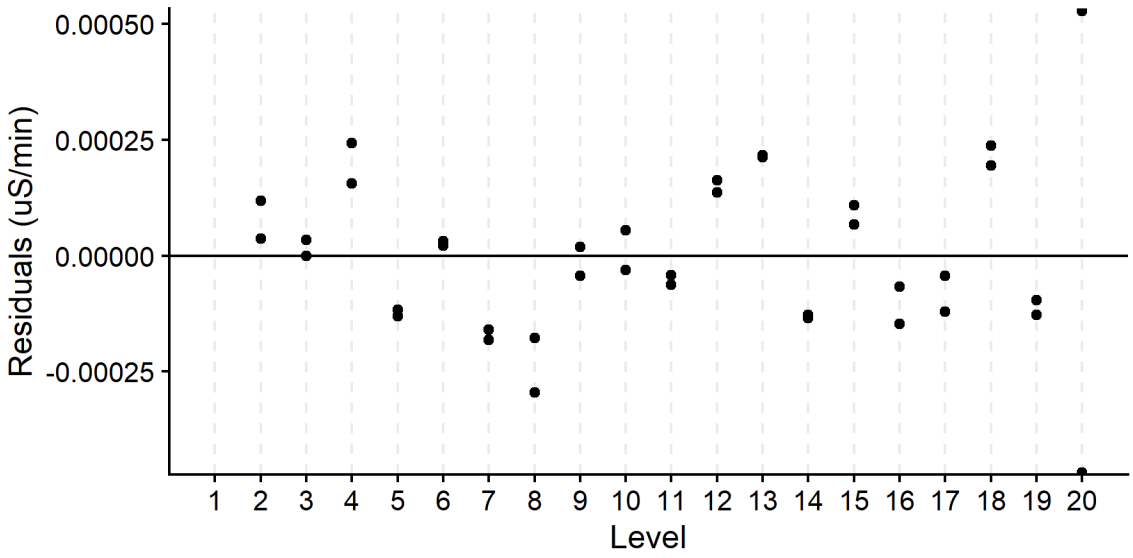


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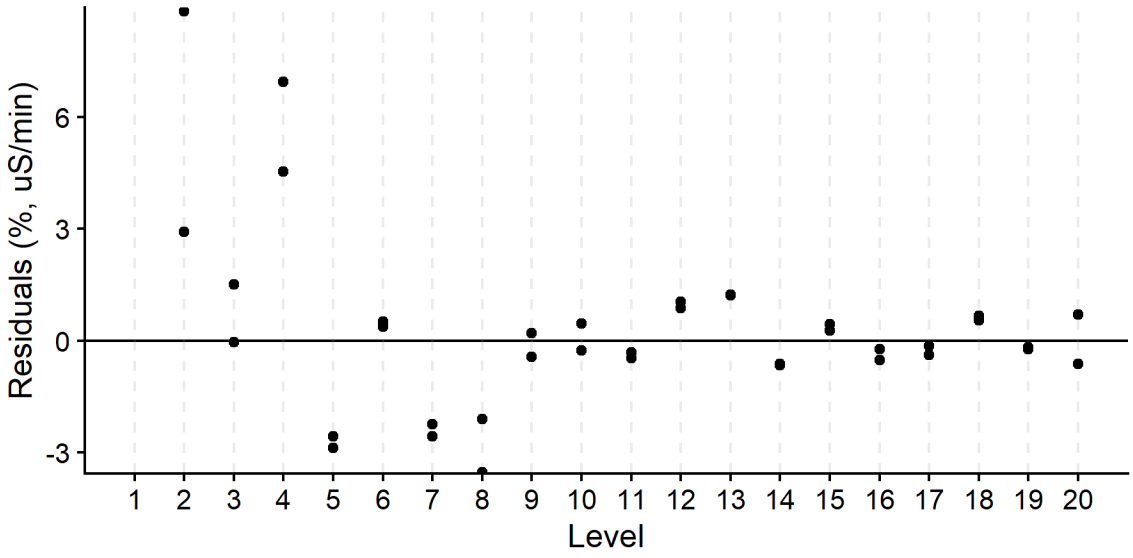


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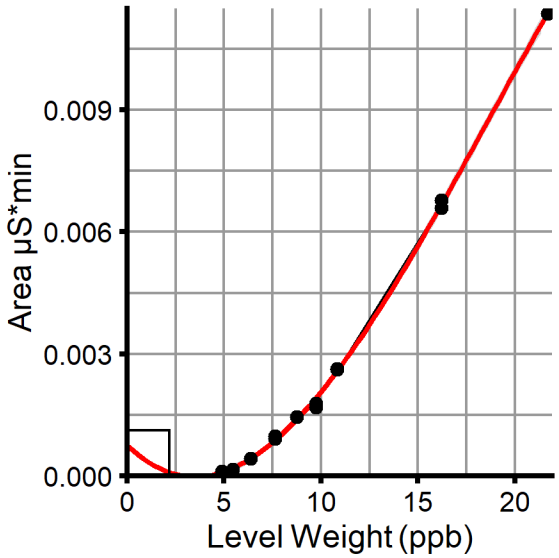
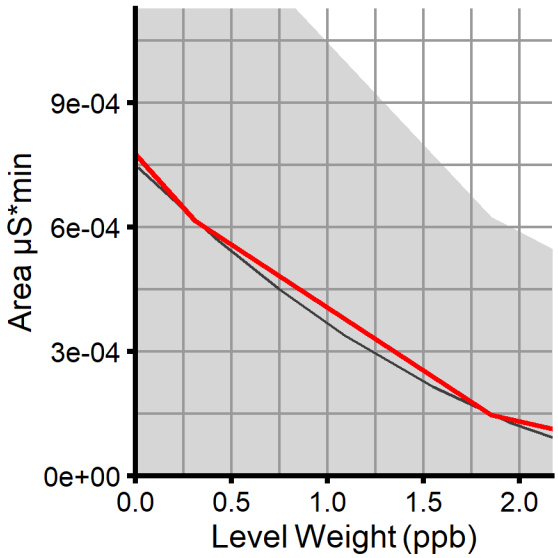
Bromide, valid n = 16, Cubic, WithOffset
BLIZZARD_NORTH, Anion 44, 09/09/2025
y = -1.273E-06*x³ + 7.098E-05*x² - 4.513E-04*x + 7.485E-04
R² = 0.99919
```



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[1] 24
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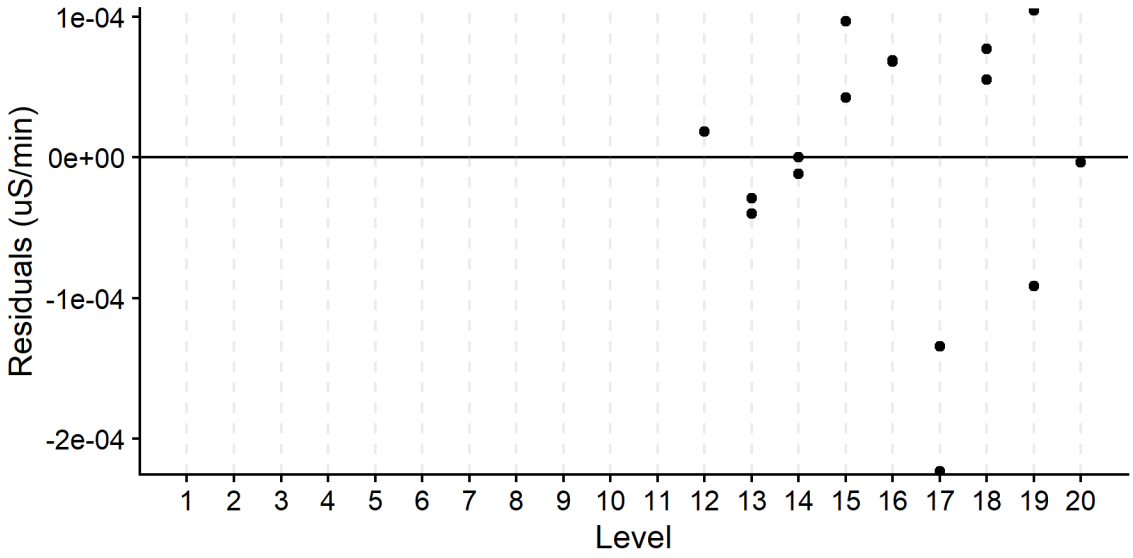


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[1] 24
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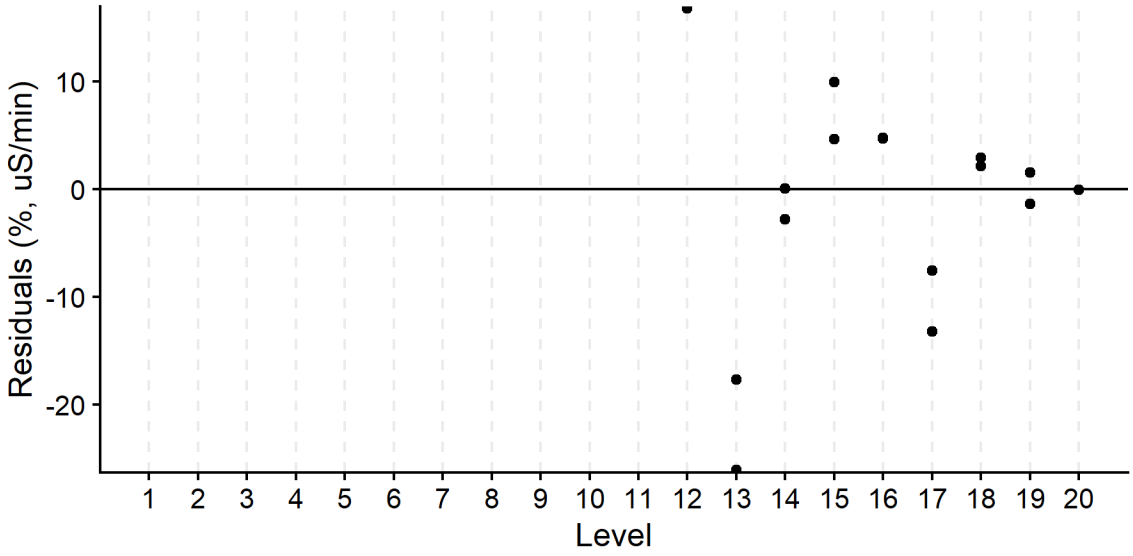


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Nitrate, valid n = 38, Cubic, WithOffset
BLIZZARD_NORTH, Anion 44, 09/09/2025
y = -5.546E-08*x³ + 1.288E-05*x² + 2.602E-03*x - 5.049E-04
R² = 0.99965
```

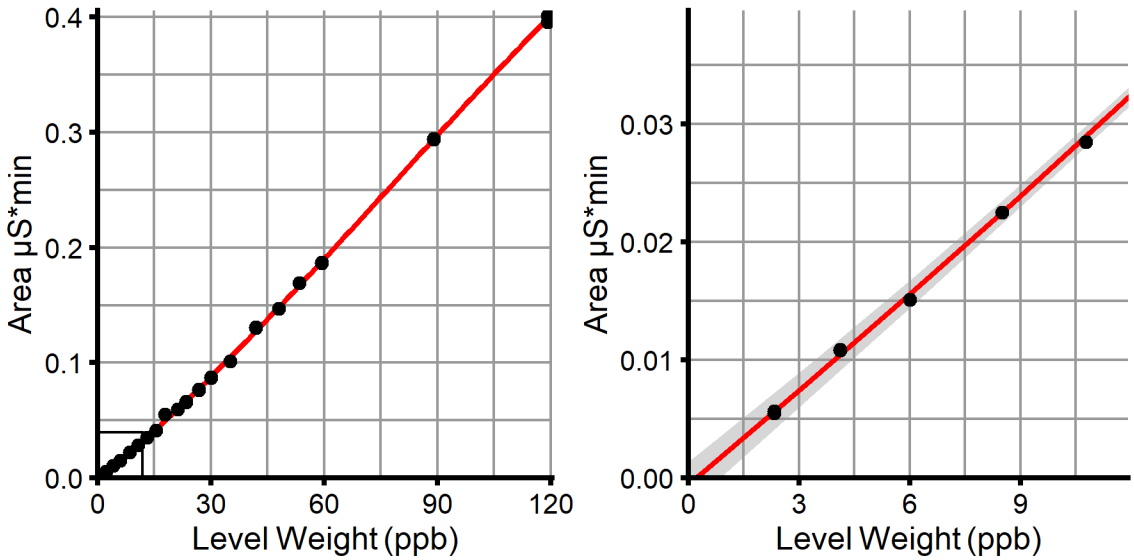


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[1] 1
[1] 2
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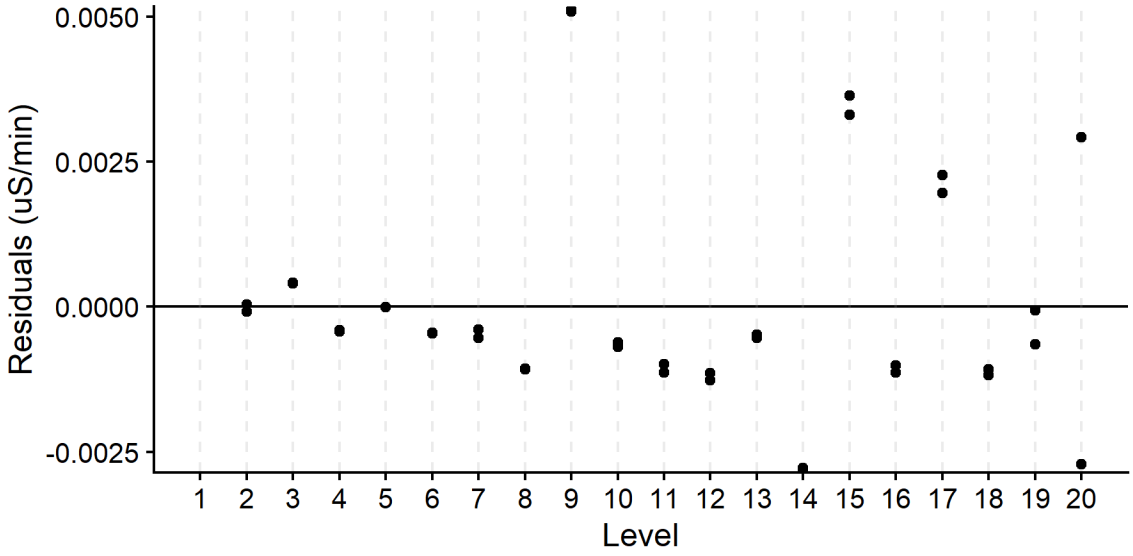
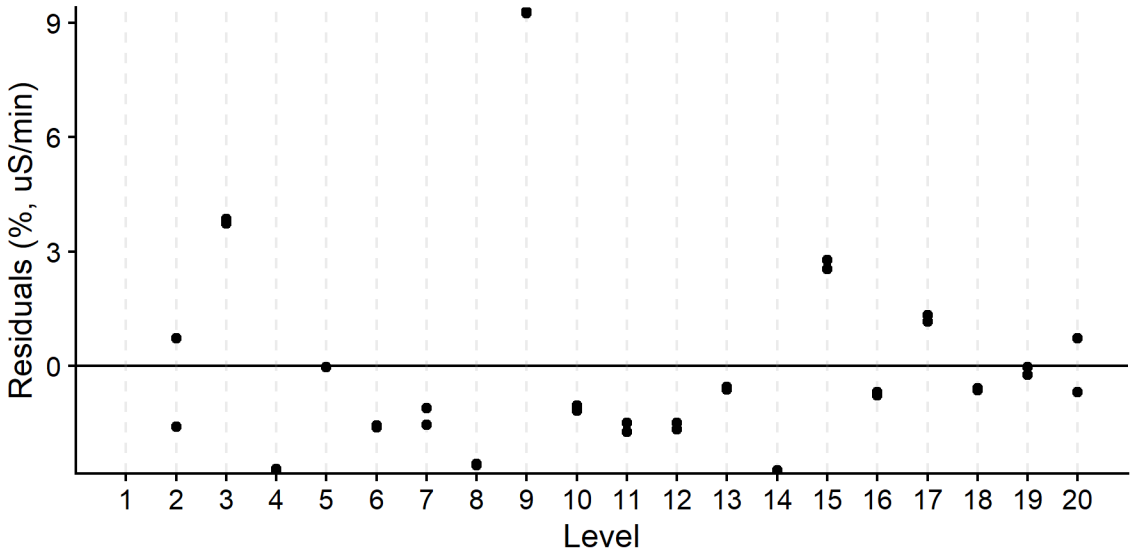



```
[1] 1
[1] 2
```

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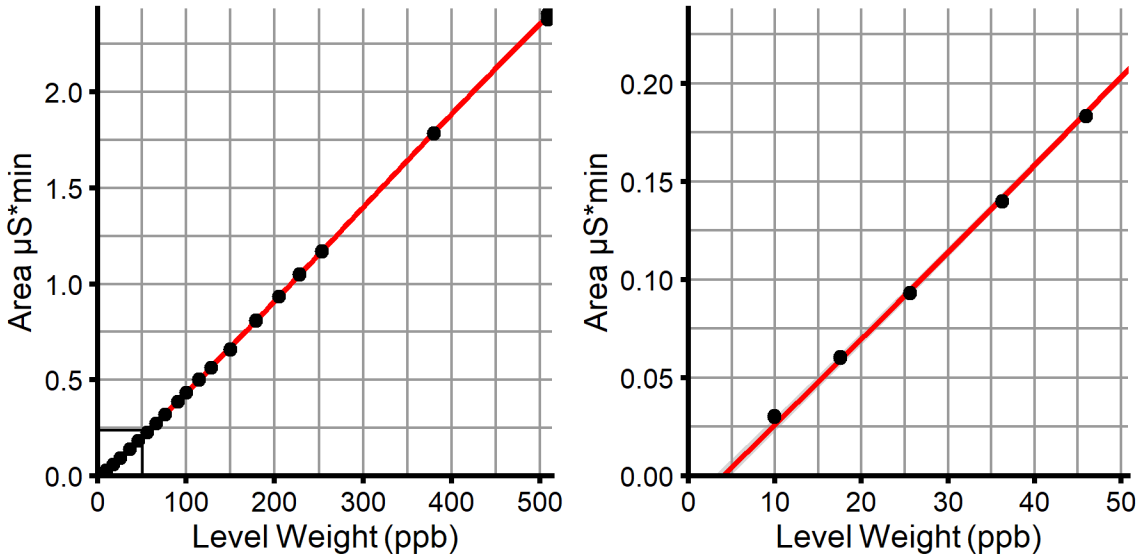
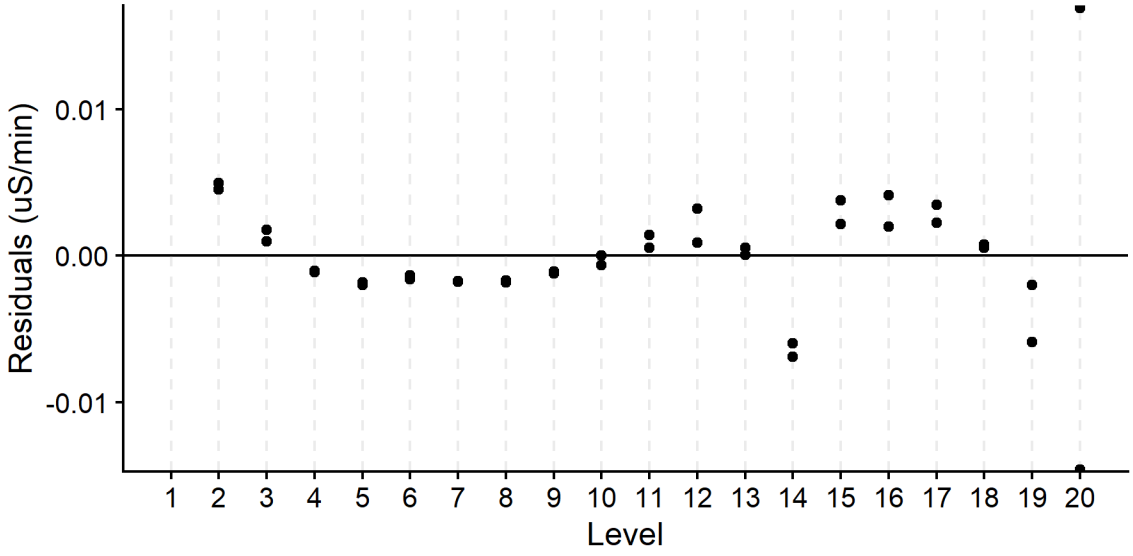
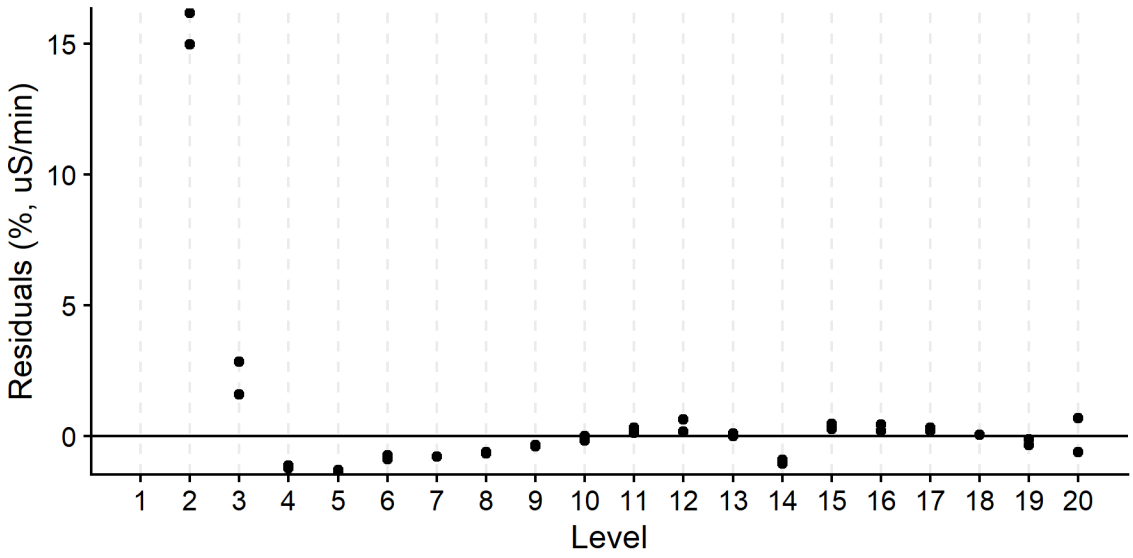
Sulphate, valid n = 38, Cubic, WithOffset
BLIZZARD_NORTH, Anion 44, 09/09/2025
y = -2.511E-09*x³ + 2.131E-06*x² + 4.309E-03*x - 1.715E-02
R² = 0.99994
```


Area µS*min
Level Weight (ppb)
0.0
0.5
1.0
1.5
2.0
0
100
200
300
400
500
Area µS*min
Level Weight (ppb)
0.00
0.05
0.10
0.15
0.20
0
10
20
30
40
50

```
[1] 1
[1] 2
```


Residuals (uS/min)
0.01
0.00
-0.01
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
Level

```
[1] 1
[1] 2
```

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Phosphate, valid n = 38, Cubic, WithOffset
BLIZZARD_NORTH, Anion 44, 09/09/2025
y = -6.948E-07*x³ + 2.422E-05*x² + 1.633E-03*x + 9.845E-05
R² = 0.99955
```

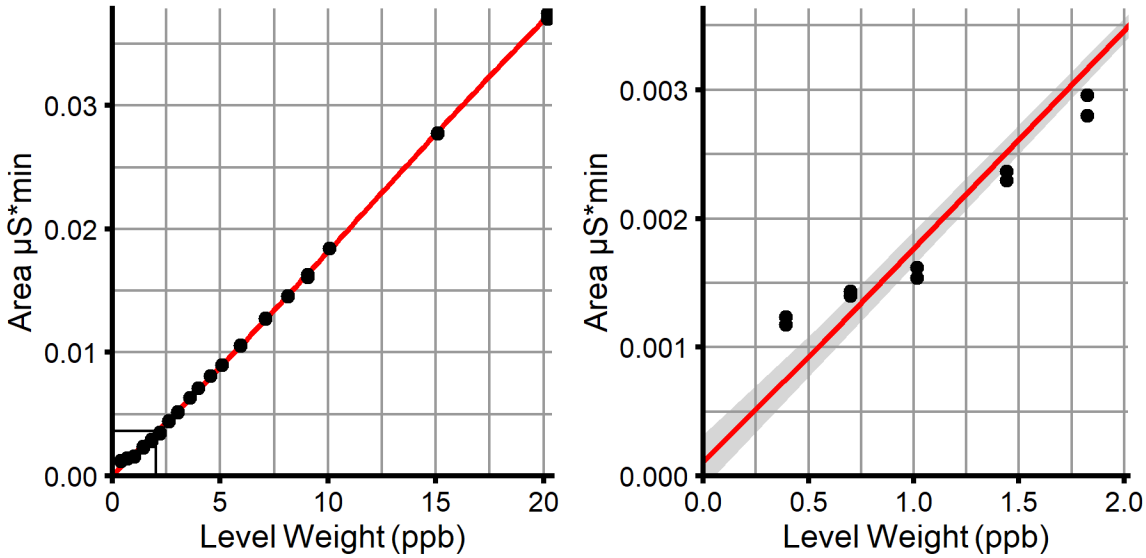


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[1] 2
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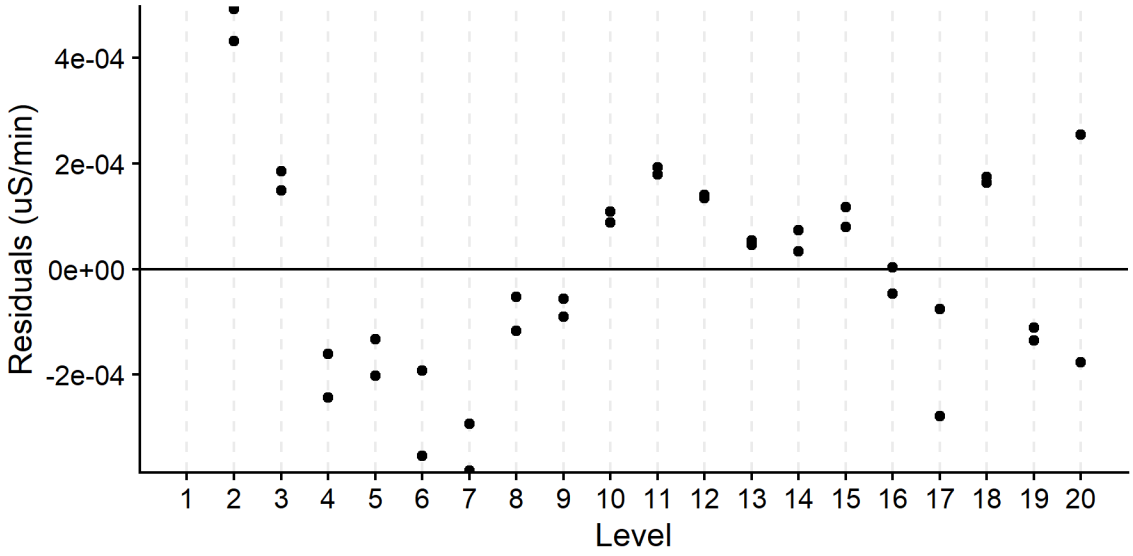
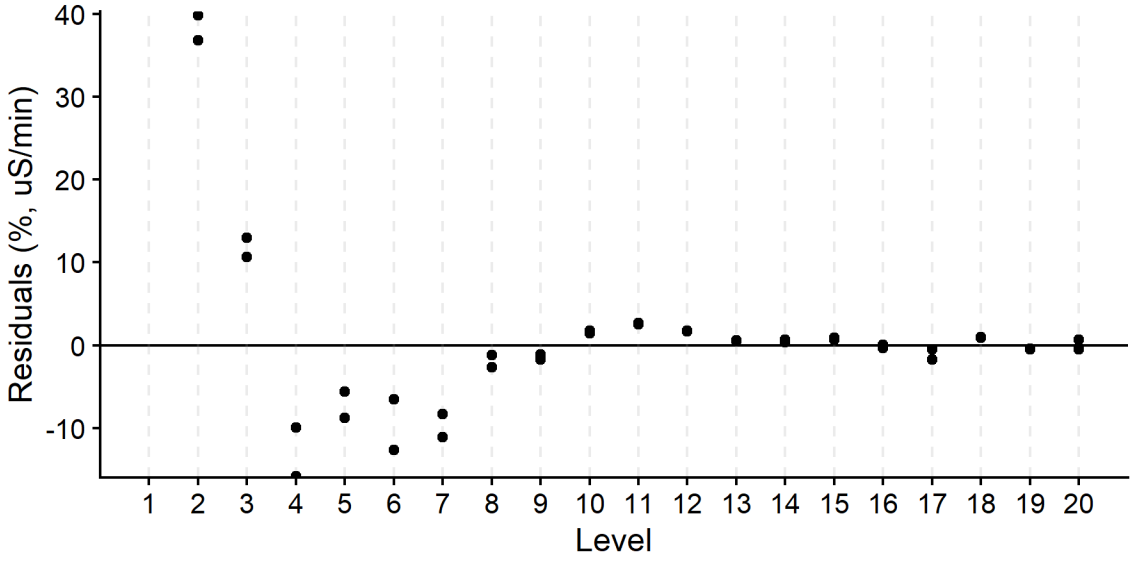
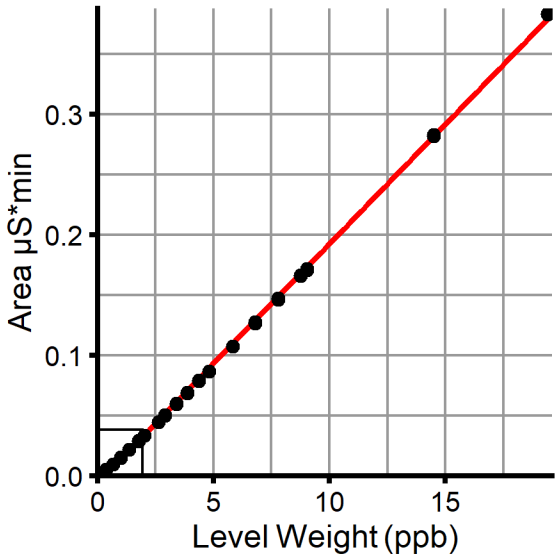

Residuals (uS/min)
4e-04
2e-04
0e+00
-2e-04
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
Level

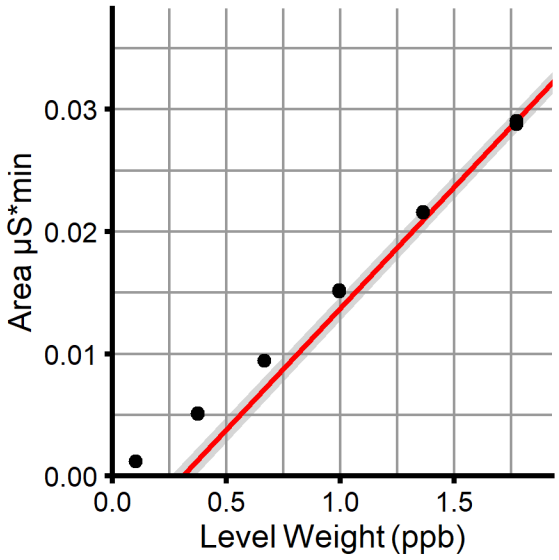
```
[1] 1
[1] 2
```


Residuals (%, uS/min)
40
30
20
10
0
-10
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
Level

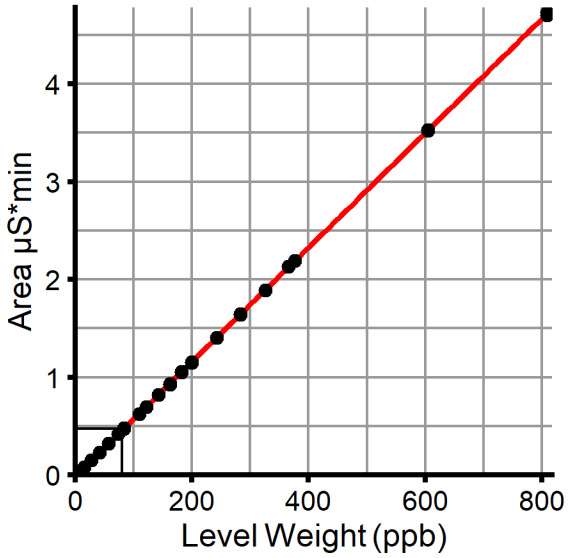
Cations

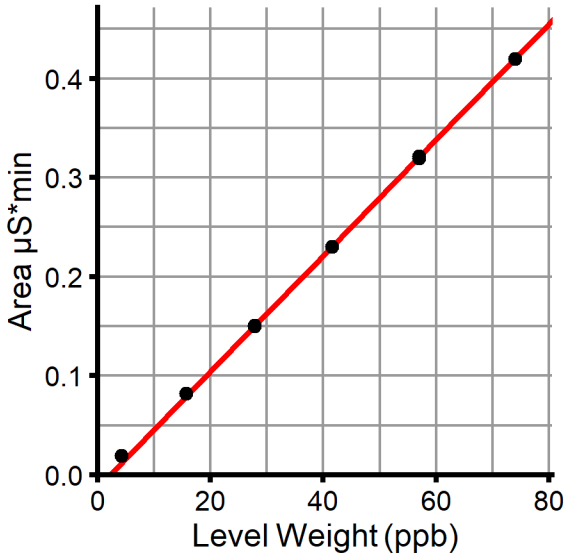
Lithium, valid n = 40, Lin, WithOffset
BLIZZARD_NORTH, Cation 38, 09/09/2025
y = 1.985E-02*x - 6.14E-03
R^2 = 0.99943



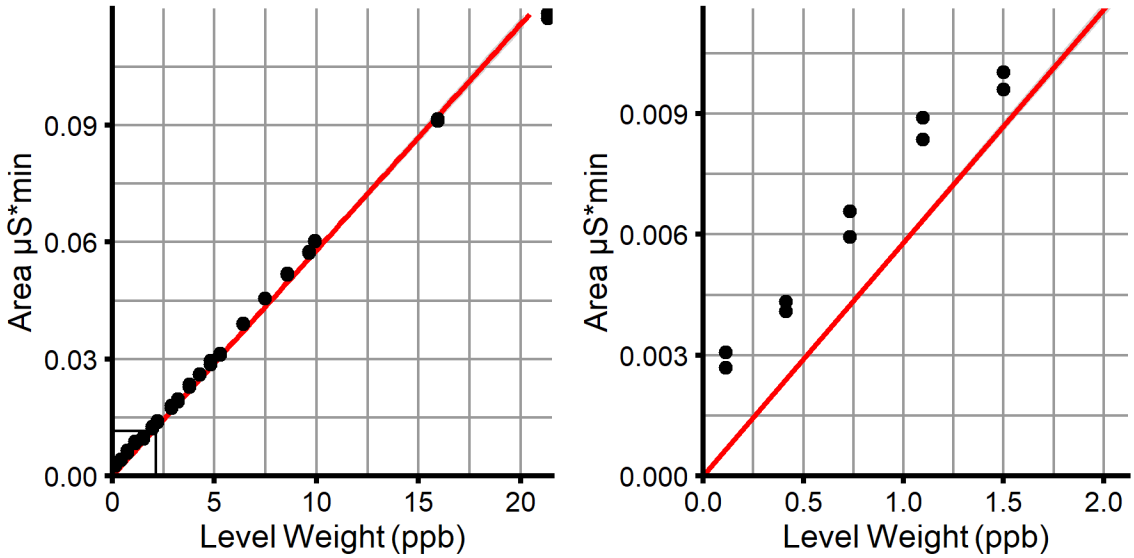


Sodium, valid n = 40, Lin, WithOffset
BLIZZARD_NORTH, Cation 38, 09/09/2025
y = 5.848E-03*x - 1.275E-02
R^2 = 0.99998

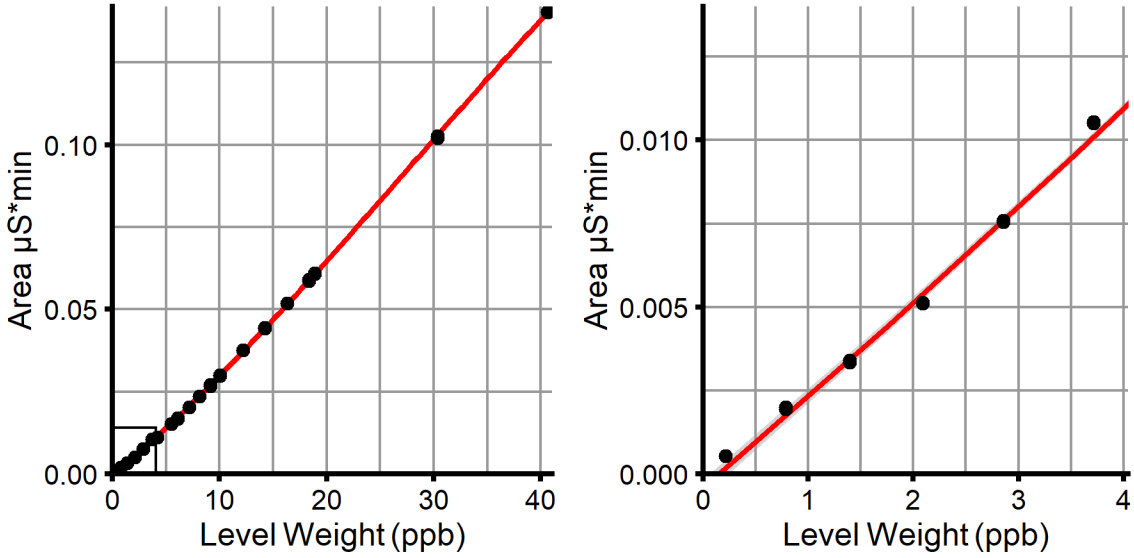




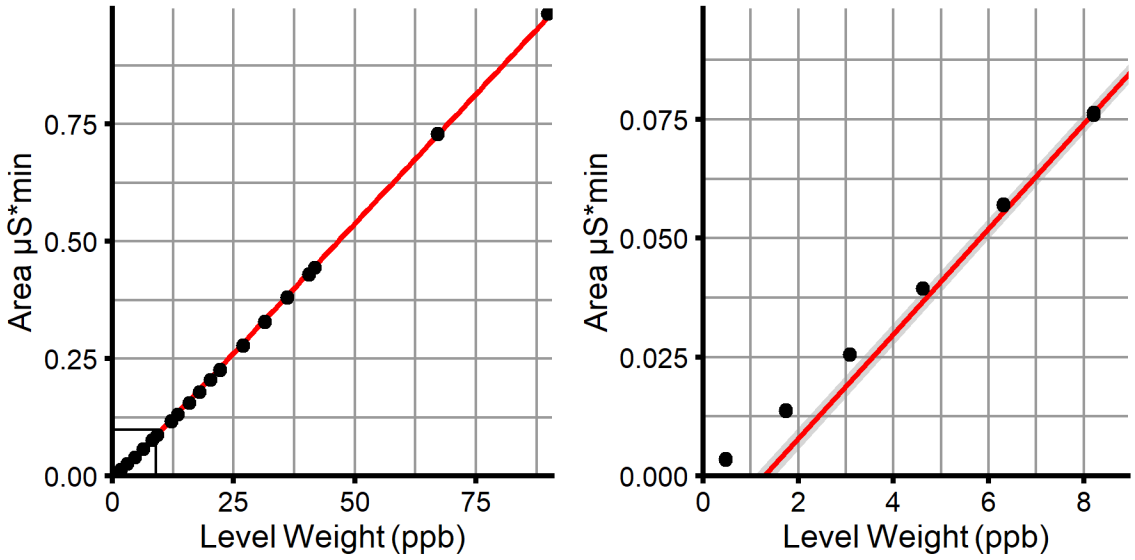
Ammonium, valid n = 40, Lin
BLIZZARD_NORTH, Cation 38, 09/09/2025
y = 5.797E-03*x
R^2 = 0.99782



Potassium, valid n = 40, Cubic, WithOffset
BLIZZARD_NORTH, Cation 38, 09/09/2025
y = -4.388E-07*x^3 + 3.653E-05*x^2 + 2.7E-03*x - 4.216E-04
R^2 = 0.99992



Magnesium, valid n = 40, Lin, WithOffset
BLIZZARD_NORTH, Cation 38, 09/09/2025
y = 1.104E-02*x - 1.425E-02
R^2 = 0.99955



Calcium, valid n = 40, Cubic, WithOffset
BLIZZARD_NORTH, Cation 38, 09/09/2025
$y = -2.654E-07*x^3 + 3.485E-05*x^2 + 5.276E-03*x - 4.839E-04$
$R^2 = 0.99988$