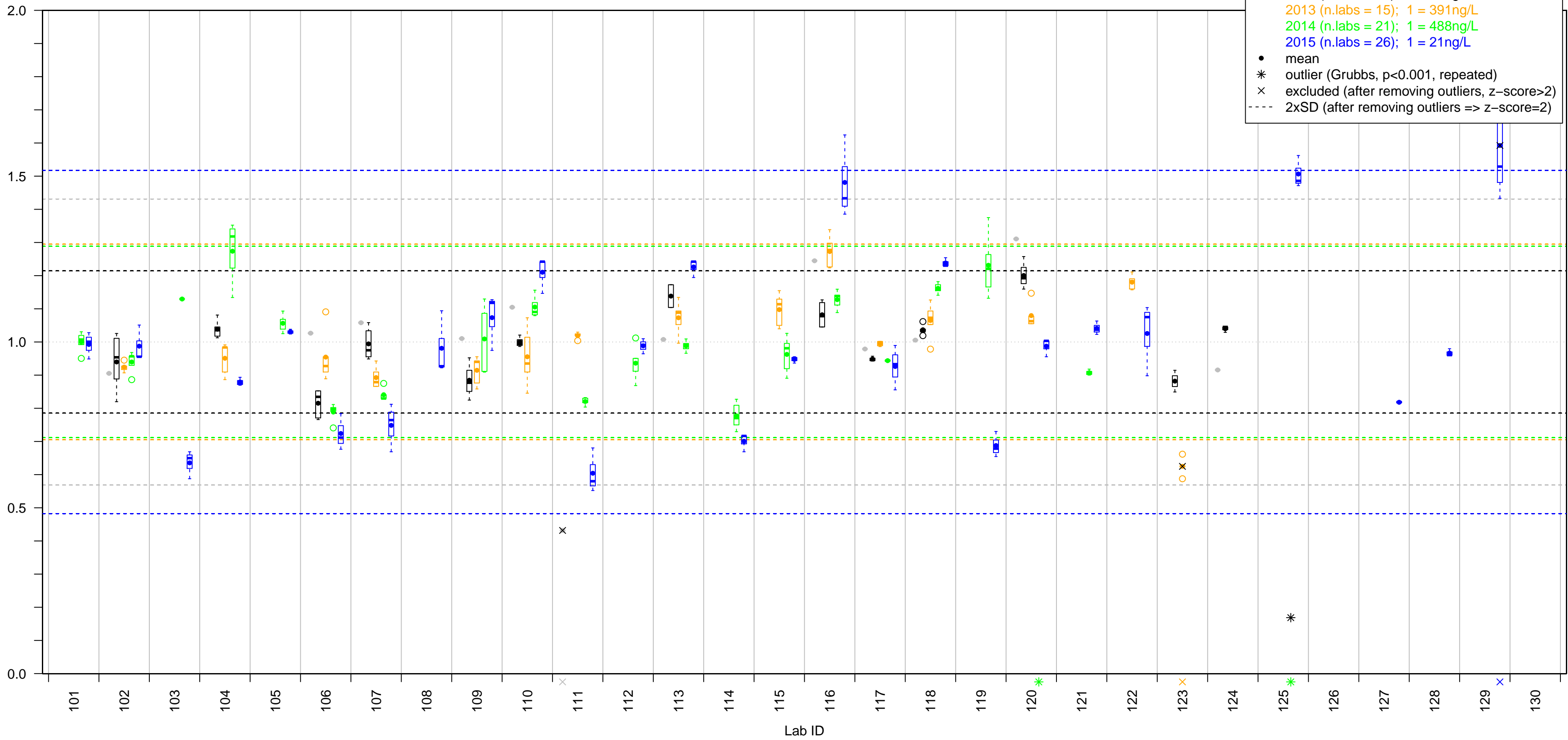


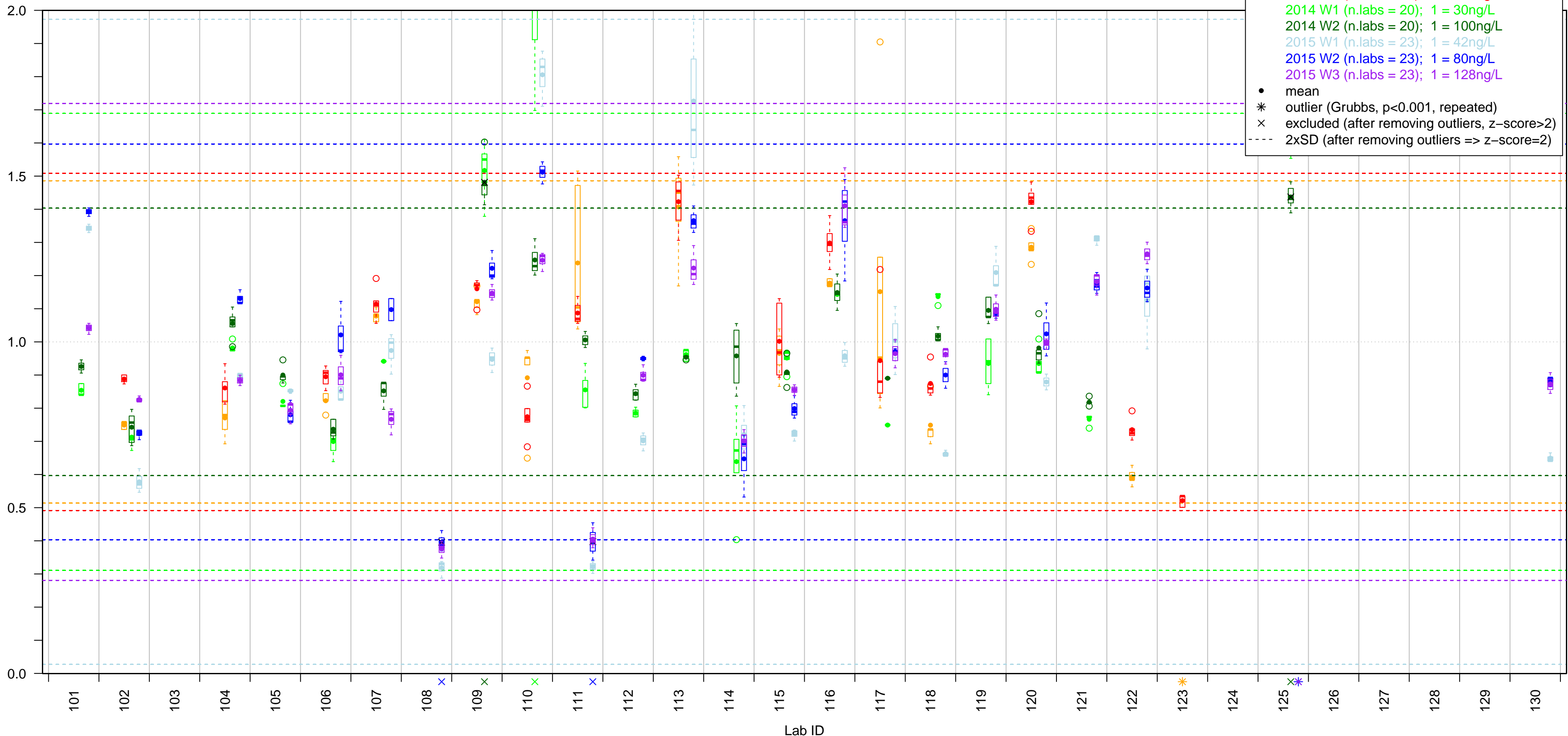
BE MeOH 1

normalized concentrations (with mean of means per year after removing outliers)



BE Water

normalized concentrations (with mean of means per year after removing outliers)

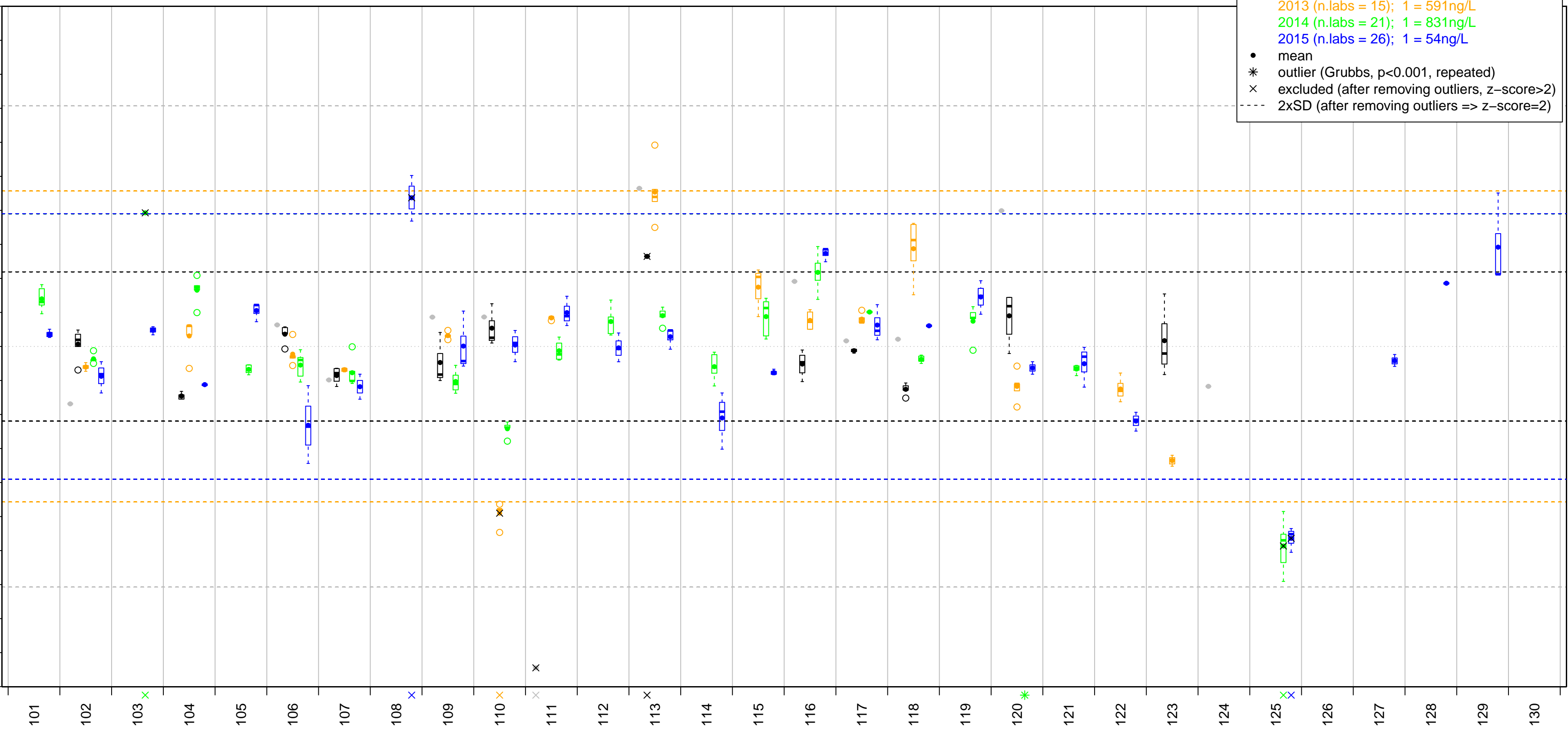


MDMA MeOH 1

normalized concentrations (with mean of means per year after removing outliers)

2.0
1.5
1.0
0.5
0.0

- 2011 (n.labs = 12); 1 = 467ng/L
- 2012 (n.labs = 12); 1 = 97ng/L
- 2013 (n.labs = 15); 1 = 591ng/L
- 2014 (n.labs = 21); 1 = 831ng/L
- 2015 (n.labs = 26); 1 = 54ng/L
- mean
- * outlier (Grubbs, $p < 0.001$, repeated)
- × excluded (after removing outliers, $z\text{-score} > 2$)
- - - 2xSD (after removing outliers $\Rightarrow z\text{-score} = 2$)



Lab ID

MDMA Water

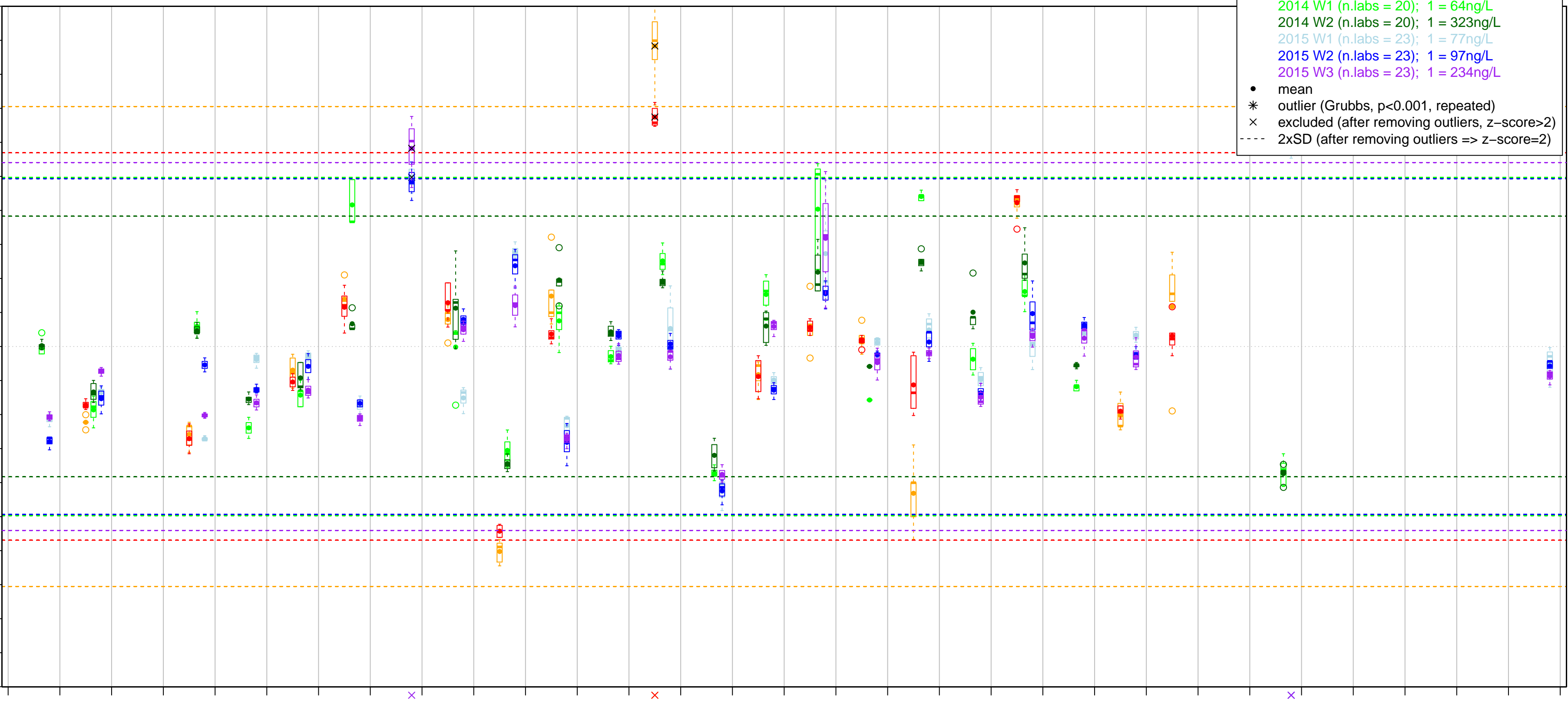
normalized concentrations (with mean of means per year after removing outliers)

2.0
1.5
1.0
0.5
0.0

- 2013 W1 (n.labs = 15); 1 = 90ng/L
- 2013 W2 (n.labs = 15); 1 = 285ng/L
- 2014 W1 (n.labs = 20); 1 = 64ng/L
- 2014 W2 (n.labs = 20); 1 = 323ng/L
- 2015 W1 (n.labs = 23); 1 = 77ng/L
- 2015 W2 (n.labs = 23); 1 = 97ng/L
- 2015 W3 (n.labs = 23); 1 = 234ng/L
- mean
- * outlier (Grubbs, $p < 0.001$, repeated)
- × excluded (after removing outliers, $z\text{-score} > 2$)
- - - 2xSD (after removing outliers $\Rightarrow z\text{-score} = 2$)

101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130

Lab ID

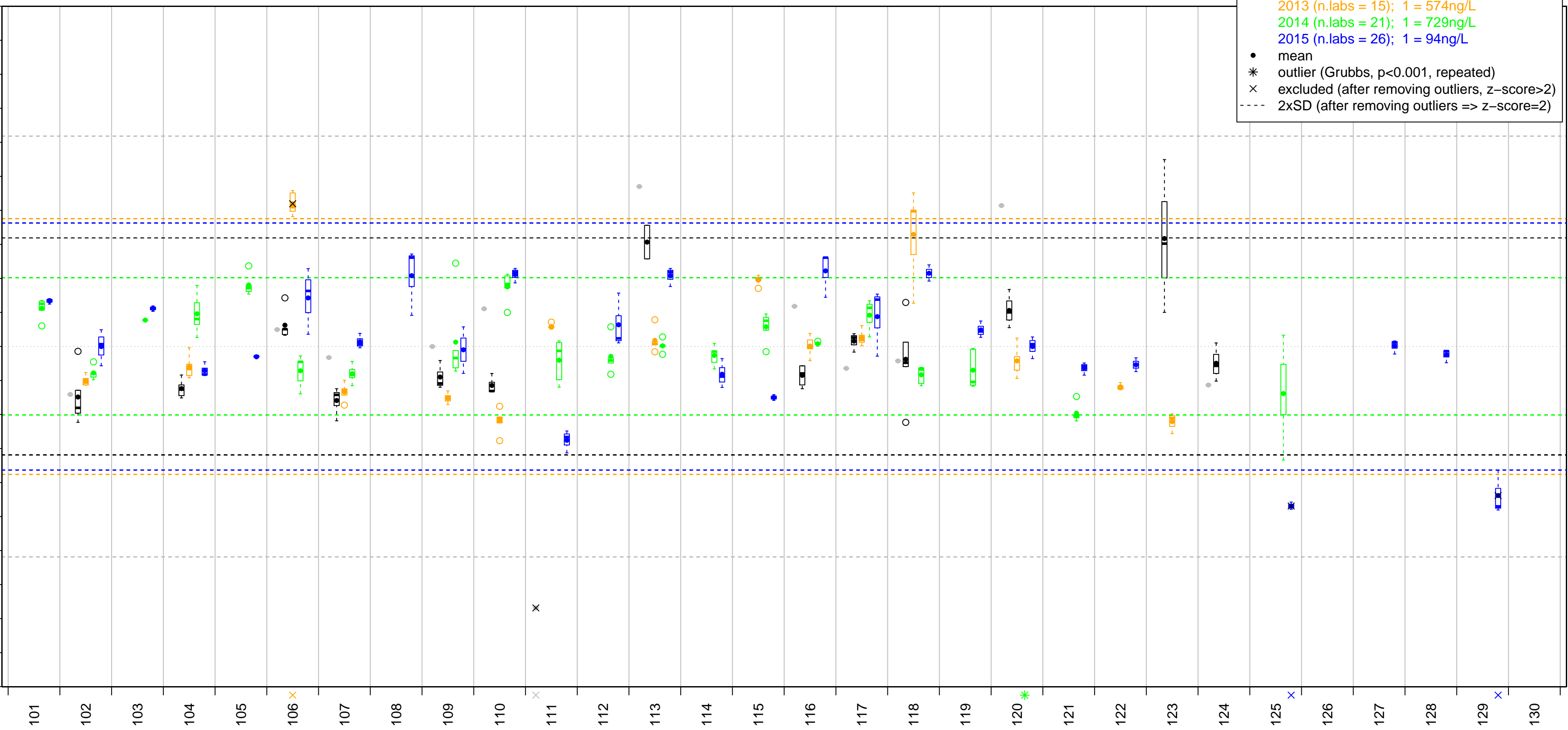


AMPH MeOH 1

normalized concentrations (with mean of means per year after removing outliers)

2.0
1.5
1.0
0.5
0.0

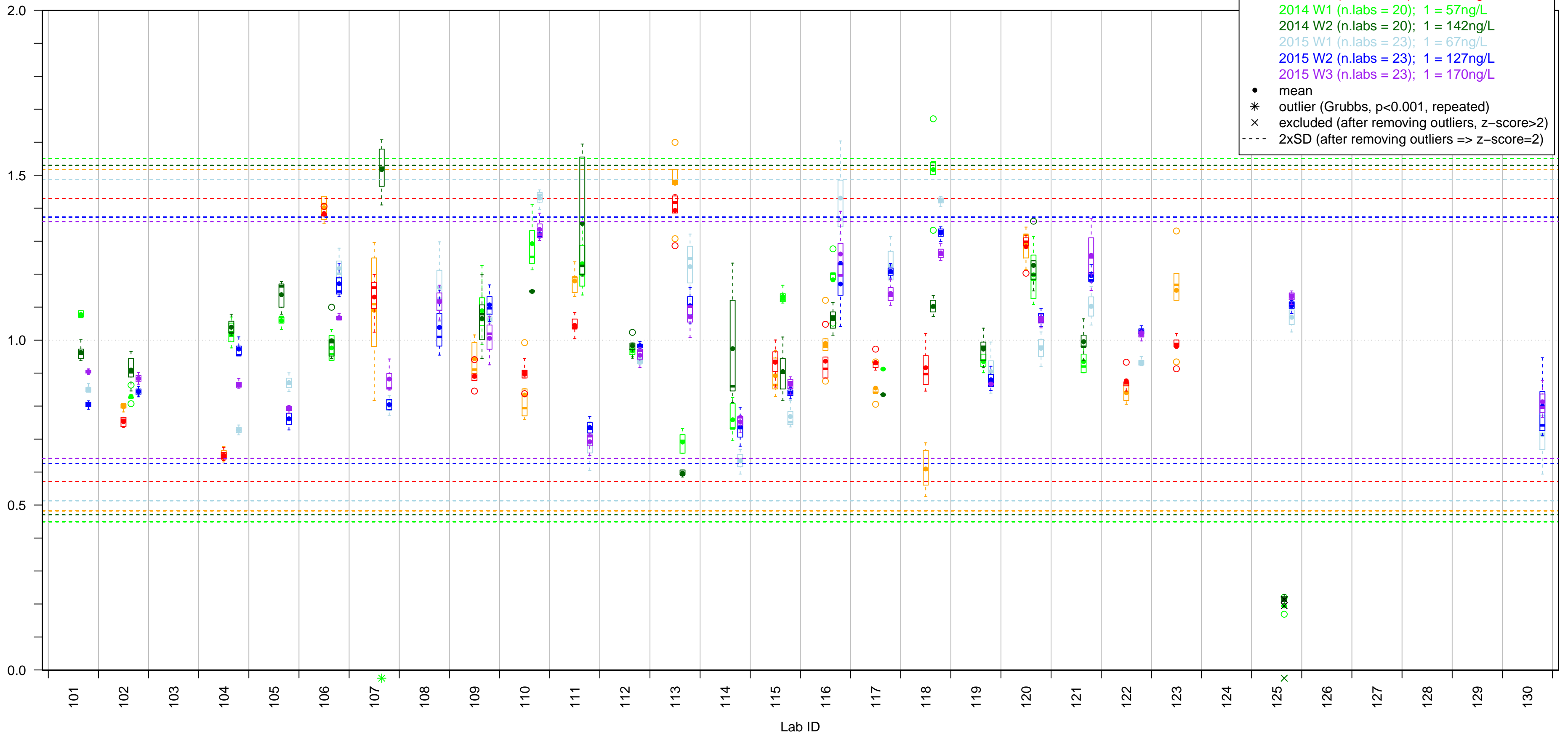
- 2011 (n.labs = 12); 1 = 479ng/L
- 2012 (n.labs = 13); 1 = 45ng/L
- 2013 (n.labs = 15); 1 = 574ng/L
- 2014 (n.labs = 21); 1 = 729ng/L
- 2015 (n.labs = 26); 1 = 94ng/L
- mean
- * outlier (Grubbs, $p < 0.001$, repeated)
- × excluded (after removing outliers, $z\text{-score} > 2$)
- 2xSD (after removing outliers $\Rightarrow z\text{-score} = 2$)



Lab ID

AMPH Water

normalized concentrations (with mean of means per year after removing outliers)

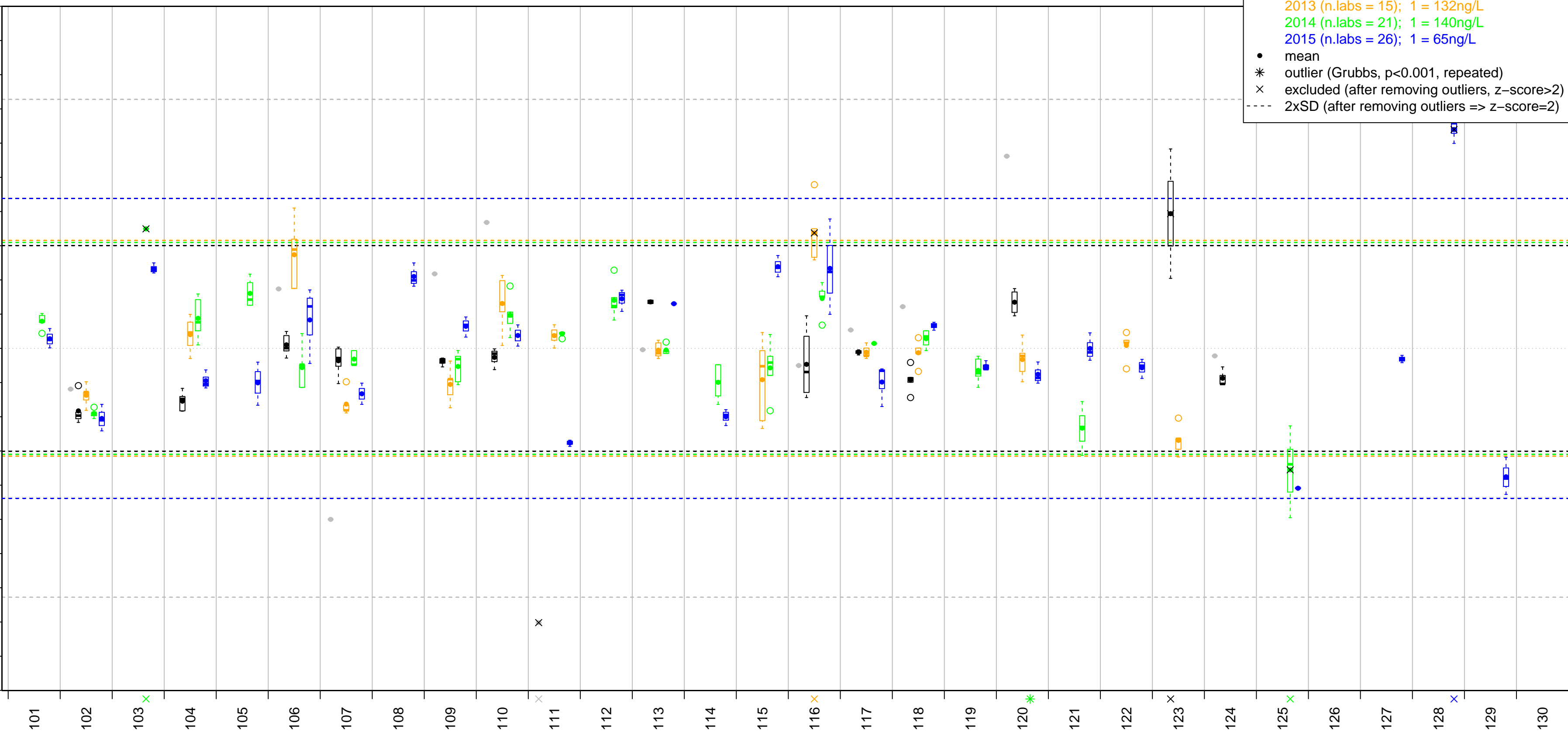


METH MeOH 1

normalized concentrations (with mean of means per year after removing outliers)

2.0
1.5
1.0
0.5
0.0

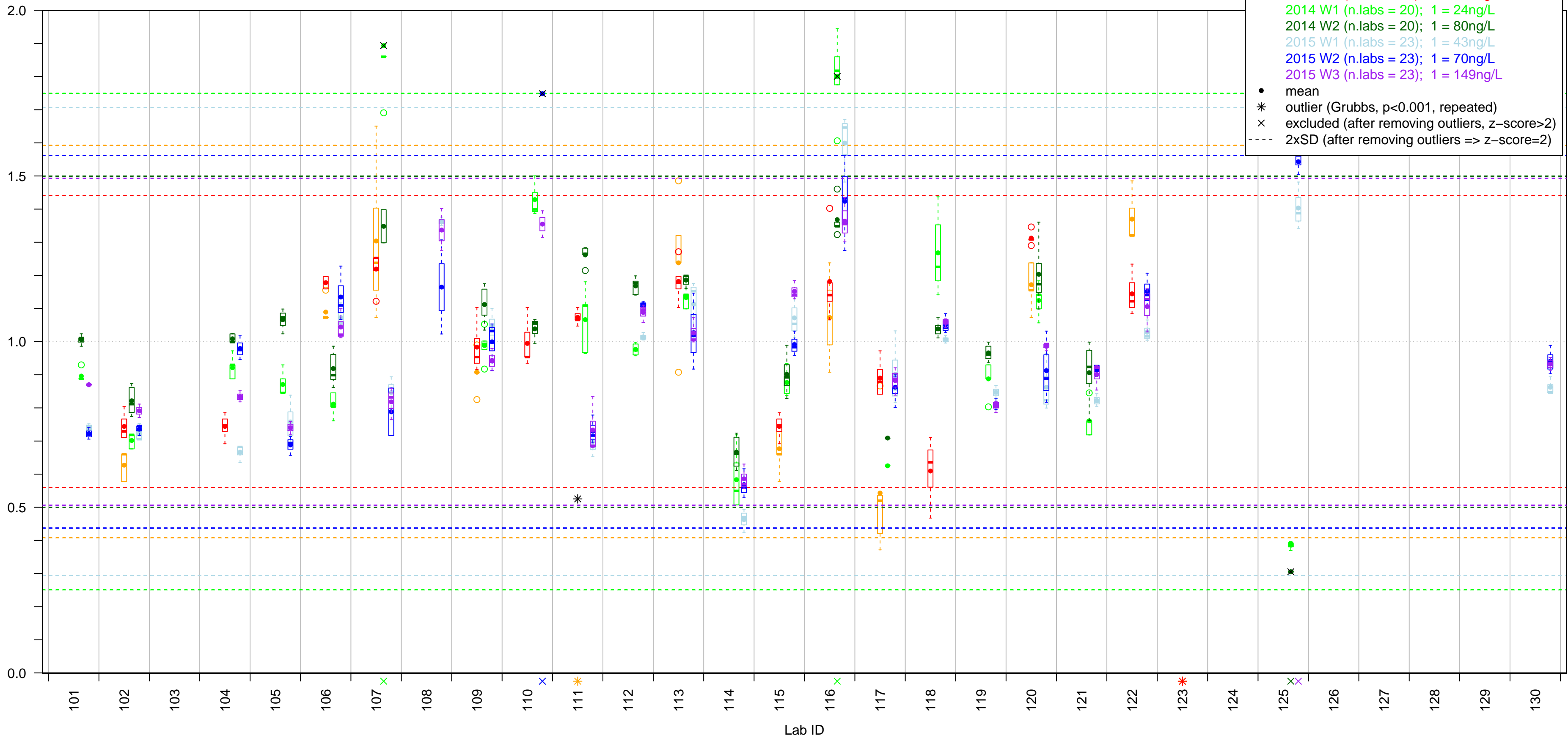
- 2011 (n.labs = 12); 1 = 426ng/L
- 2012 (n.labs = 13); 1 = 100ng/L
- 2013 (n.labs = 15); 1 = 132ng/L
- 2014 (n.labs = 21); 1 = 140ng/L
- 2015 (n.labs = 26); 1 = 65ng/L
- mean
- * outlier (Grubbs, $p < 0.001$, repeated)
- × excluded (after removing outliers, $z\text{-score} > 2$)
- - - 2xSD (after removing outliers $\Rightarrow z\text{-score} = 2$)



Lab ID

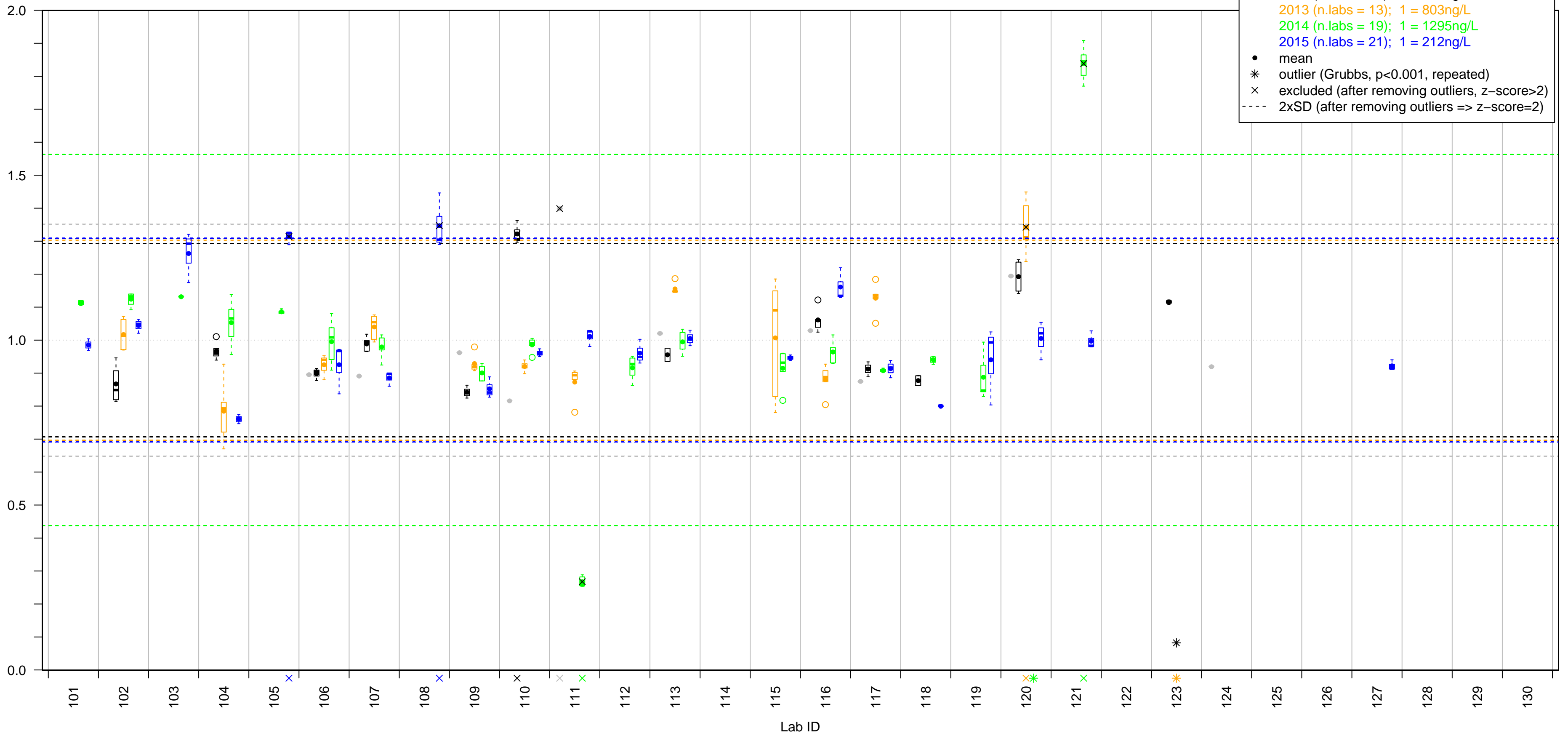
METH Water

normalized concentrations (with mean of means per year after removing outliers)



THC MeOH 1

normalized concentrations (with mean of means per year after removing outliers)



THC Water

normalized concentrations (with mean of means per year after removing outliers)

2.0
1.5
1.0
0.5
0.0

101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130

Lab ID

- 2013 W1 (n.labs = 8); 1 = 24ng/L
- 2013 W2 (n.labs = 8); 1 = 40ng/L
- 2014 W1 (n.labs = 12); 1 = 38ng/L
- 2014 W2 (n.labs = 13); 1 = 67ng/L
- 2015 W1 (n.labs = 19); 1 = 211ng/L
- 2015 W2 (n.labs = 19); 1 = 274ng/L
- 2015 W3 (n.labs = 19); 1 = 373ng/L
- mean
- * outlier (Grubbs, p<0.001, repeated)
- × excluded (after removing outliers, z-score>2)
- - - 2xSD (after removing outliers => z-score=2)

