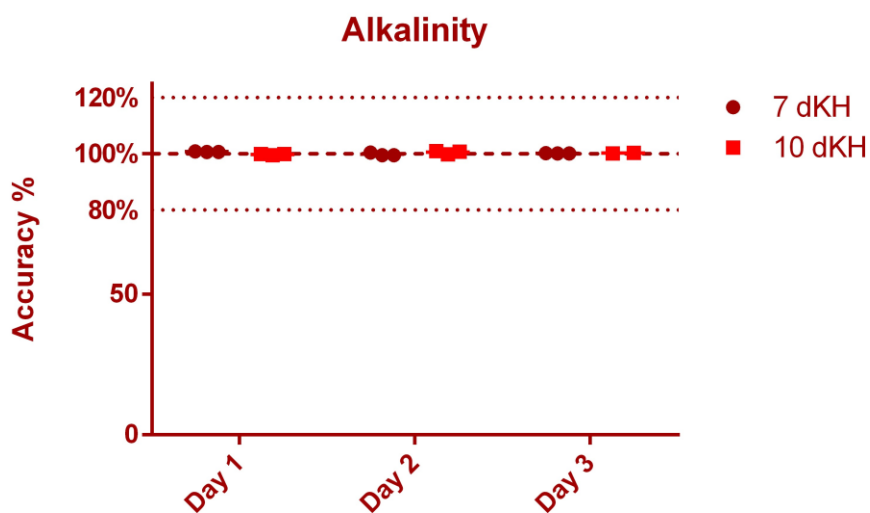


## Alkalinity

**Method:** automated acid/base titration

Mean accuracy @ 7 dKH: 100,27 ( $\pm 0,47$ )% (9 Measurements split over 3 days)

Mean accuracy @ 10 dKH: 100,19 ( $\pm 0,52$ )% (9 Measurements split over 3 days)



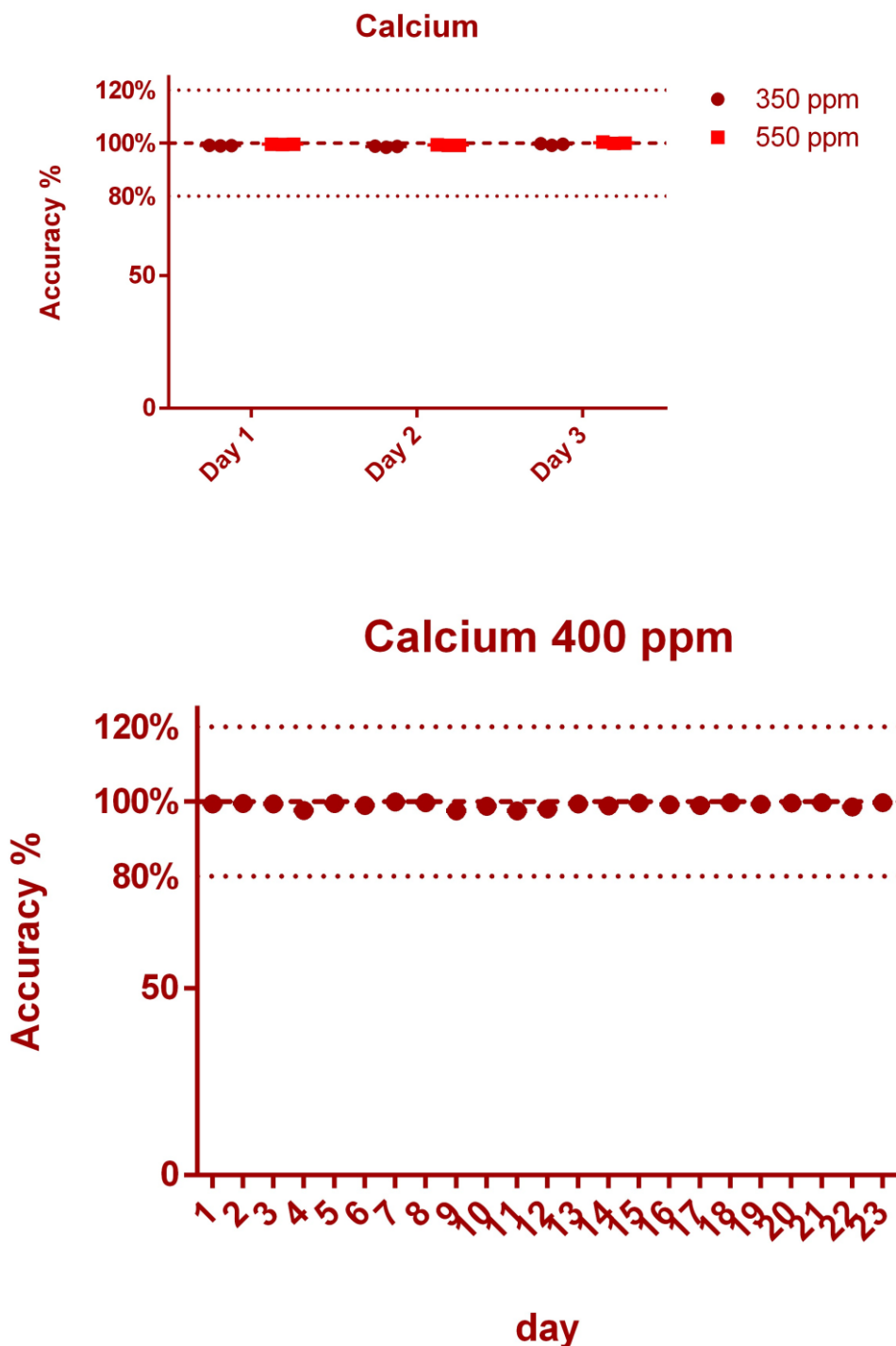
## Calcium

**Method:** Cation IC

Mean accuracy @ 350 ppm: 99,13 ( $\pm 0,43$ )% (9 Measurements split over 3 days)

Mean accuracy @ 400 ppm: 99,10 ( $\pm 0,74$ )% (23 Measurements on 23 consecutive days)

Mean accuracy @ 550 ppm: 99,69 ( $\pm 0,41$ )% (9 Measurements split over 3 days)

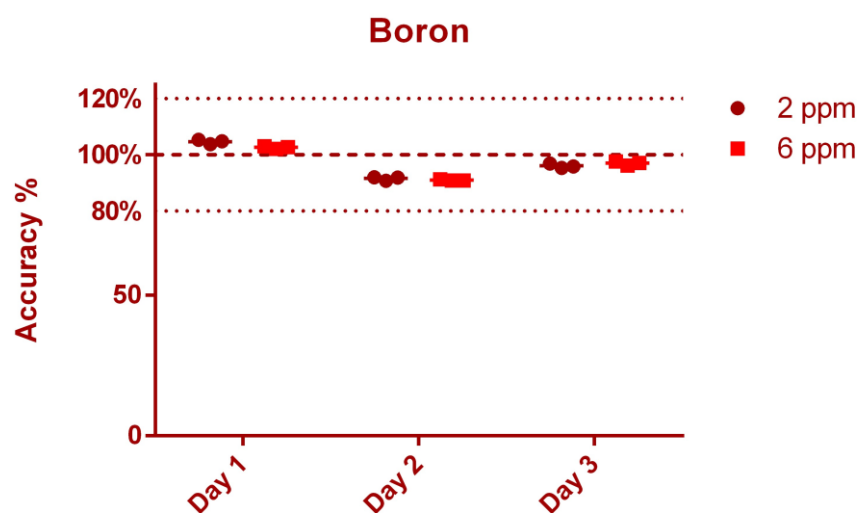


## Boron

**Method:** ICP-MS

Mean accuracy @ 2 ppm: 97,45 ( $\pm 5,78$ )% (9 Measurements split over 3 days)

Mean accuracy @ 6 ppm: 96,89 ( $\pm 5,05$ )% (9 Measurements split over 3 days)



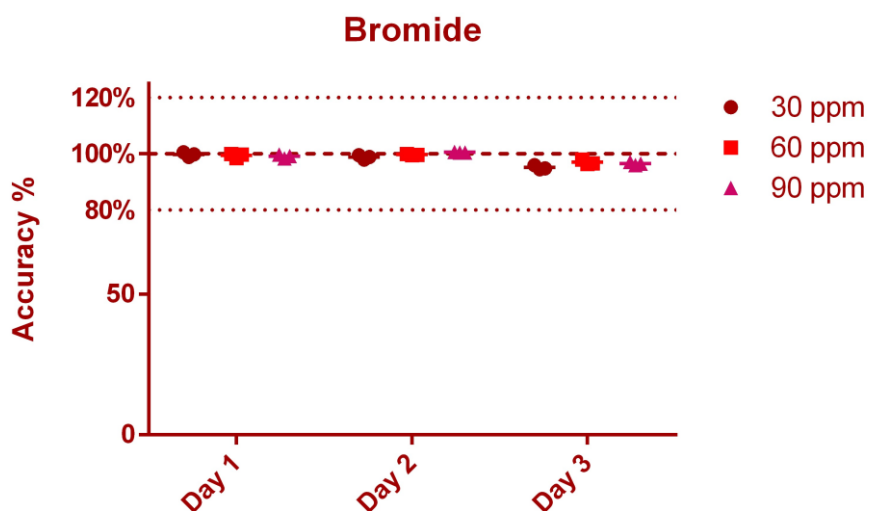
## Bromide

**Method:** Anion IC

Mean accuracy @ 30 ppm: 97,91 ( $\pm 2,21$ )% (9 Measurements split over 3 days)

Mean accuracy @ 60 ppm: 98,70 ( $\pm 1,43$ )% (9 Measurements split over 3 days)

Mean accuracy @ 110 ppm: 98,73 ( $\pm 1,81$ )% (9 Measurements split over 3 days)



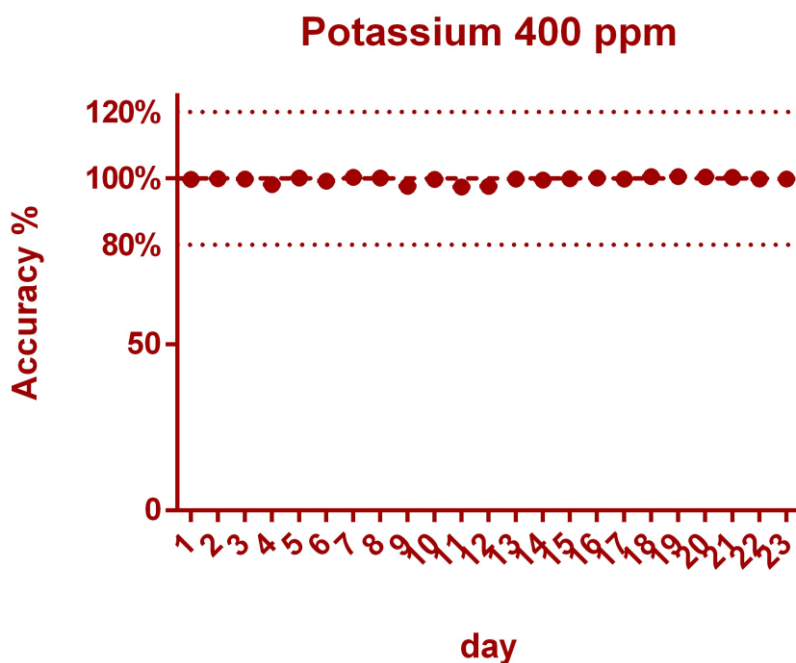
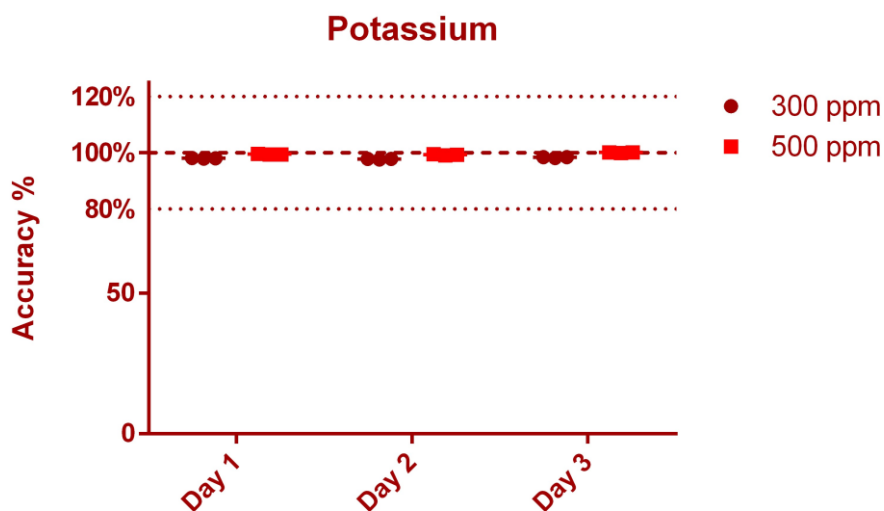
## Potassium

**Method:** Cation IC

Mean accuracy @ 300 ppm: 98,08 ( $\pm 0,30$ )% (9 Measurements split over 3 days)

Mean accuracy @ 400 ppm: 99,61 ( $\pm 0,95$ )% (23 Measurements on 23 consecutive days)

Mean accuracy @ 500 ppm: 99,64 ( $\pm 0,39$ )% (9 Measurements split over 3 days)



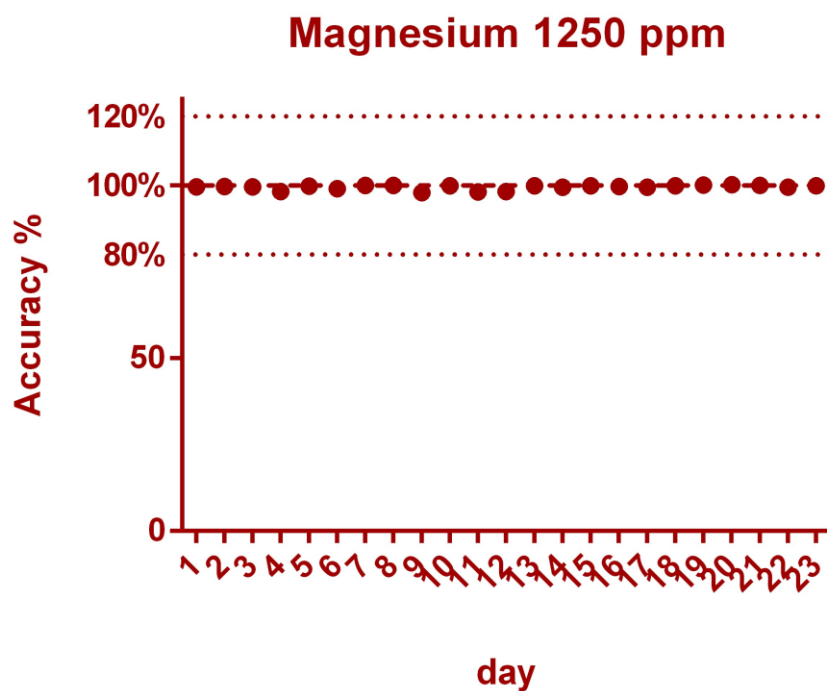
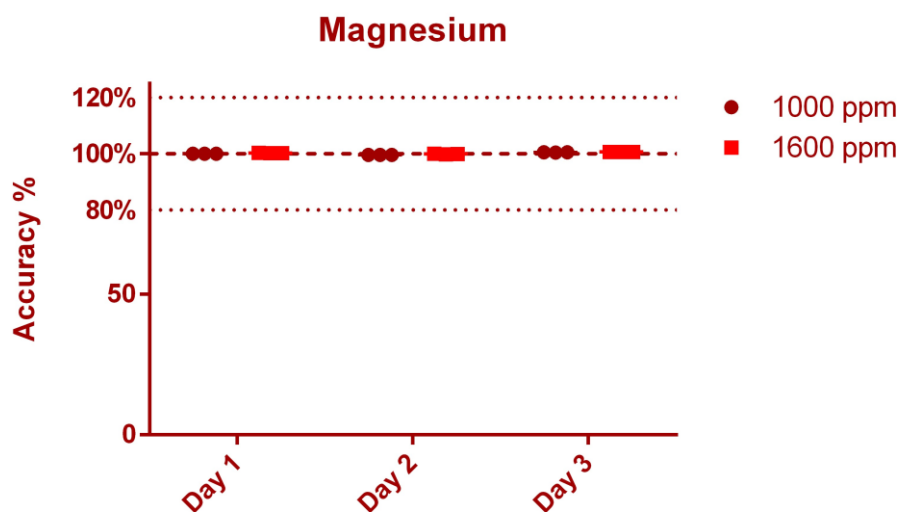
## Magnesium

**Method:** Cation IC

Mean accuracy @ 1000 ppm: 100,08 ( $\pm 0,37$ )% (9 Measurements split over 3 days)

Mean accuracy @ 1250 ppm: 99,52 ( $\pm 0,67$ )% (23 Measurements on 23 consecutive days)

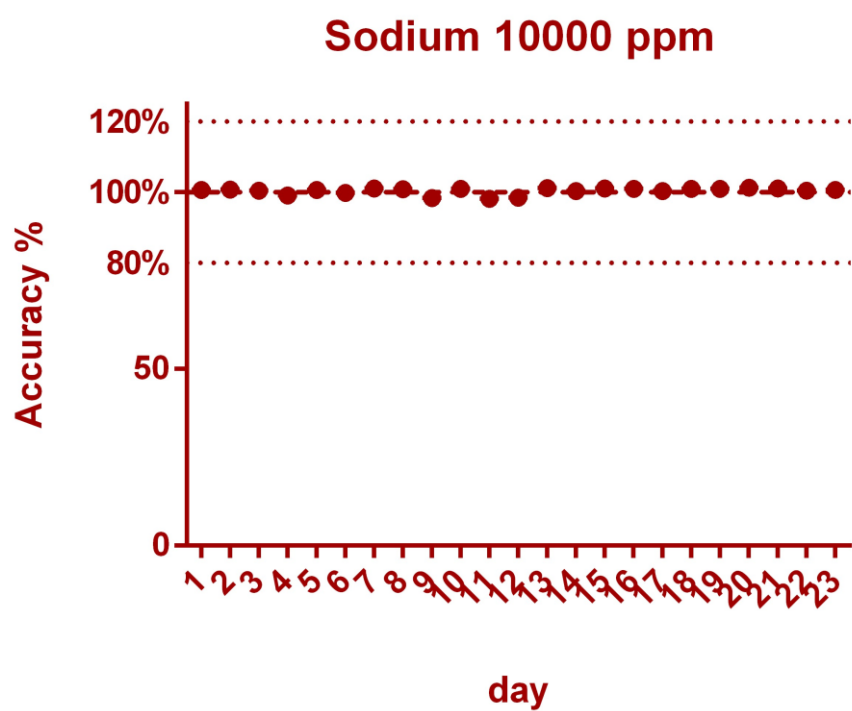
Mean accuracy @ 1600 ppm: 100,29 ( $\pm 0,33$ )% (9 Measurements split over 3 days)



## Sodium

**Method:** Cation IC

Mean accuracy @ 10000 ppm: 100,40 ( $\pm 0,94$ )% (23 Measurements on 23 consecutive days)

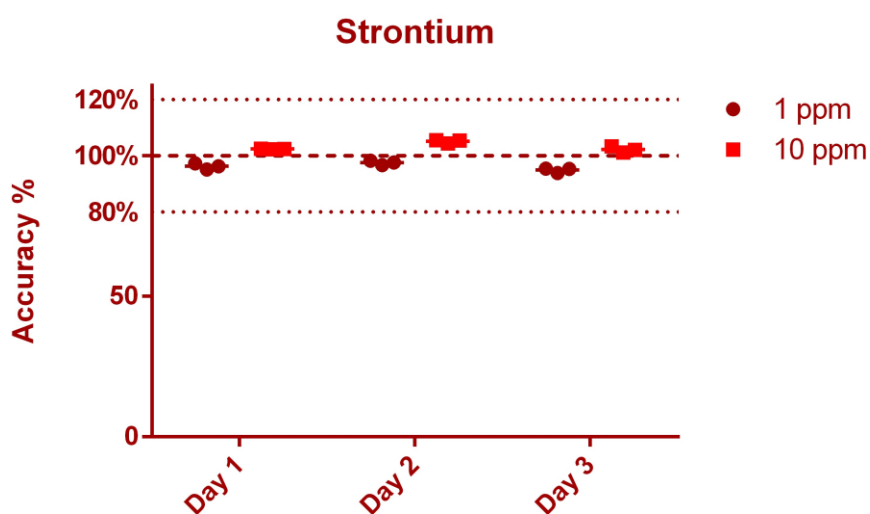


## Strontium

**Method:** ICP-MS

Mean accuracy @ 1 ppm: 96,25 ( $\pm 1,39$ )% (9 Measurements split over 3 days)

Mean accuracy @ 10 ppm: 103,28 ( $\pm 1,56$ )% (9 Measurements split over 3 days)





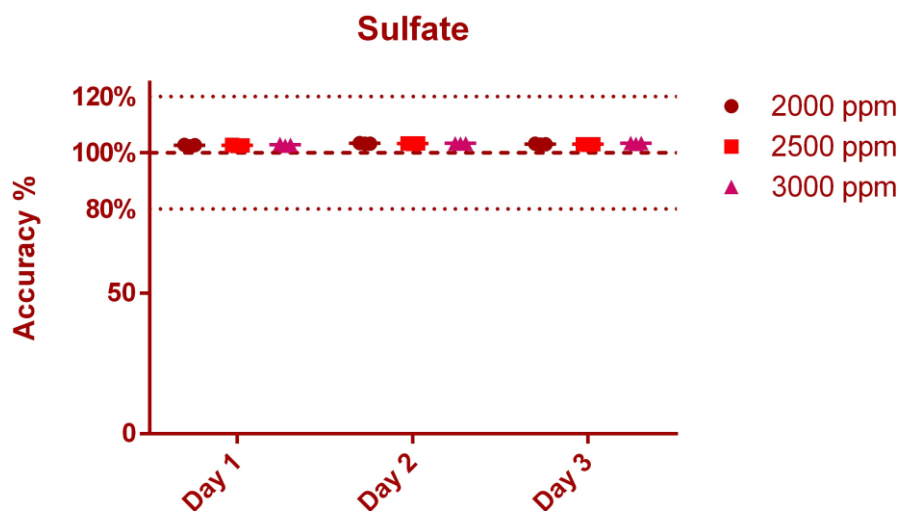
## Sulfate

**Method:** Anion IC

Mean accuracy @ 2000 ppm: 103,06 ( $\pm 0,36$ )% (9 Measurements split over 3 days)

Mean accuracy @ 2500 ppm: 102,99 ( $\pm 0,31$ )% (23 Measurements on 23 consecutive days)

Mean accuracy @ 3000 ppm: 103,20 ( $\pm 0,30$ )% (9 Measurements split over 3 days)



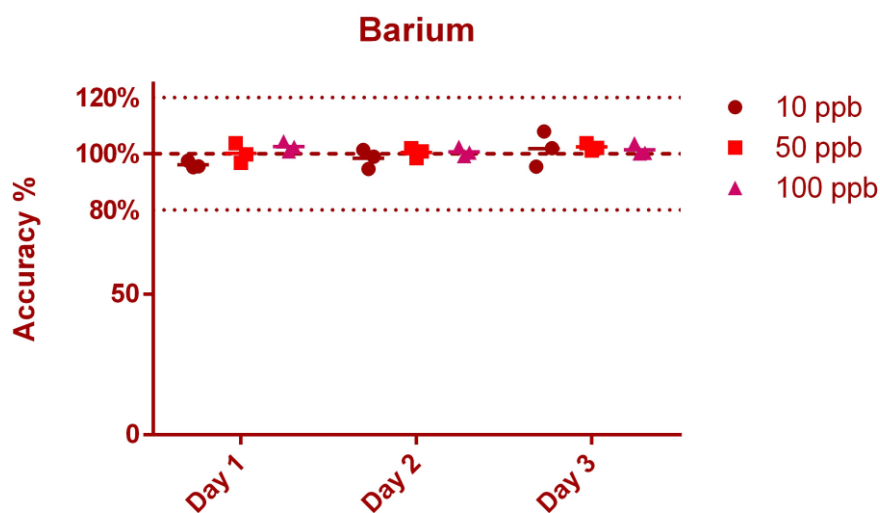
## Barium

**Method:** ICP-MS

Mean accuracy @ 10 ppb: 98,76 ( $\pm 4,40$ )% (9 Measurements split over 3 days)

Mean accuracy @ 50 ppb: 101,01 ( $\pm 2,34$ )% (9 Measurements split over 3 days)

Mean accuracy @ 100 ppb: 101,56 ( $\pm 1,77$ )% (9 Measurements split over 3 days)



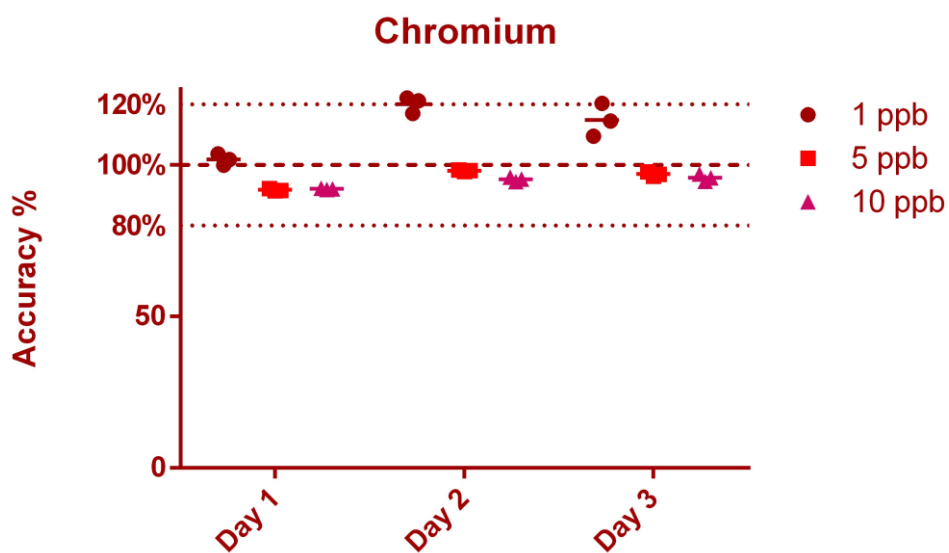
## Chromium

**Method:** ICP-MS

Mean accuracy @ 1 ppb: 112,23 ( $\pm 8,76$ )% (9 Measurements split over 3 days)

Mean accuracy @ 5 ppb: 95,64 ( $\pm 2,95$ )% (9 Measurements split over 3 days)

Mean accuracy @ 10 ppb: 94,42 ( $\pm 1,87$ )% (9 Measurements split over 3 days)



## Cobalt

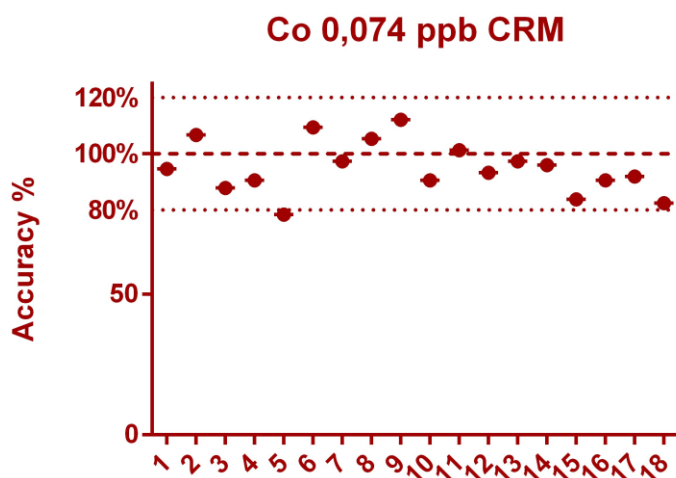
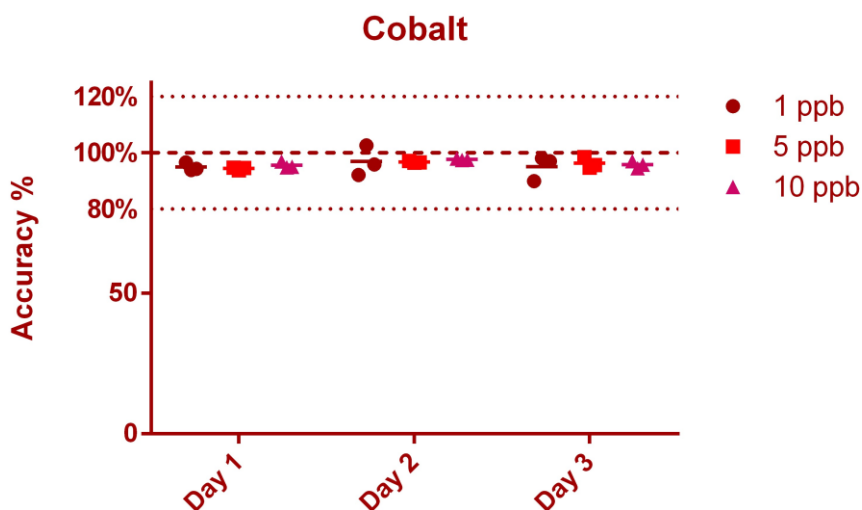
**Method:** ICP-MS

Mean accuracy @ 1 ppb: 95,61 ( $\pm 3,69$ )% (9 Measurements split over 3 days)

Mean accuracy @ 5 ppb: 95,82 ( $\pm 1,48$ )% (9 Measurements split over 3 days)

Mean accuracy @ 10 ppb: 96,35 ( $\pm 1,31$ )% (9 Measurements split over 3 days)

Mean accuracy @ 0,074 ppb: 94,97 ( $\pm 9,35$ )% (18 Measurements on 18 consecutive days, CRM data)



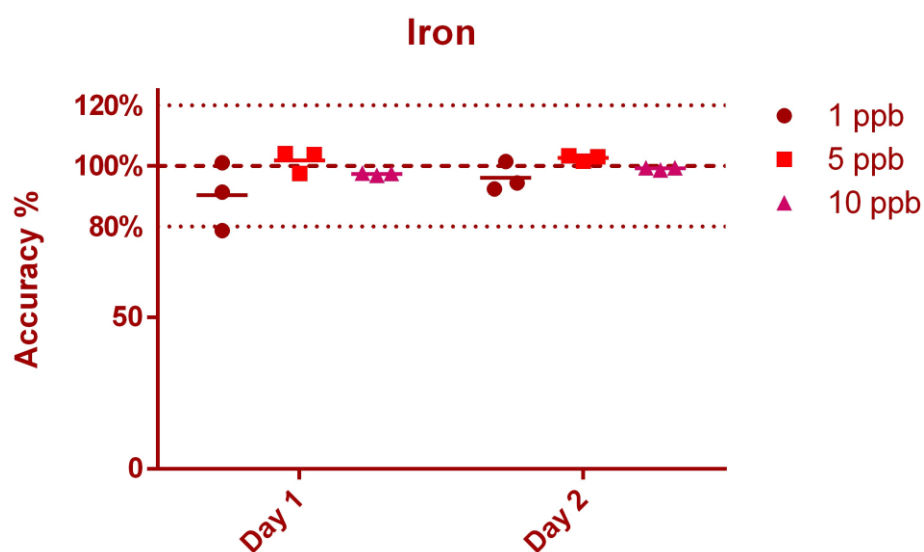
## Iron

**Method:** ICP-MS

Mean accuracy @ 1 ppb: 93,25 ( $\pm 8,33$ )% (6 Measurements split over 2 days)

Mean accuracy @ 5 ppb: 102,24 ( $\pm 2,48$ )% (6 Measurements split over 2 days)

Mean accuracy @ 10 ppb: 98,28 ( $\pm 1,06$ )% (6 Measurements split over 2 days)



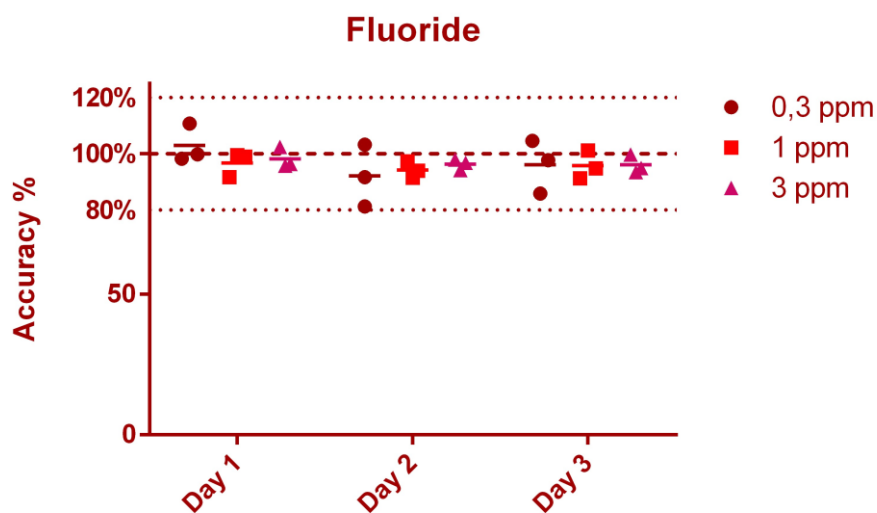
## Fluoride

**Method:** Anion IC

Mean accuracy @ 0,3 ppm: 97,06 ( $\pm 9,32$ )% (9 Measurements split over 3 days)

Mean accuracy @ 1 ppm: 95,60 ( $\pm 3,80$ )% (23 Measurements on 23 consecutive days)

Mean accuracy @ 3 ppm: 96,87 ( $\pm 2,81$ )% (9 Measurements split over 3 days)

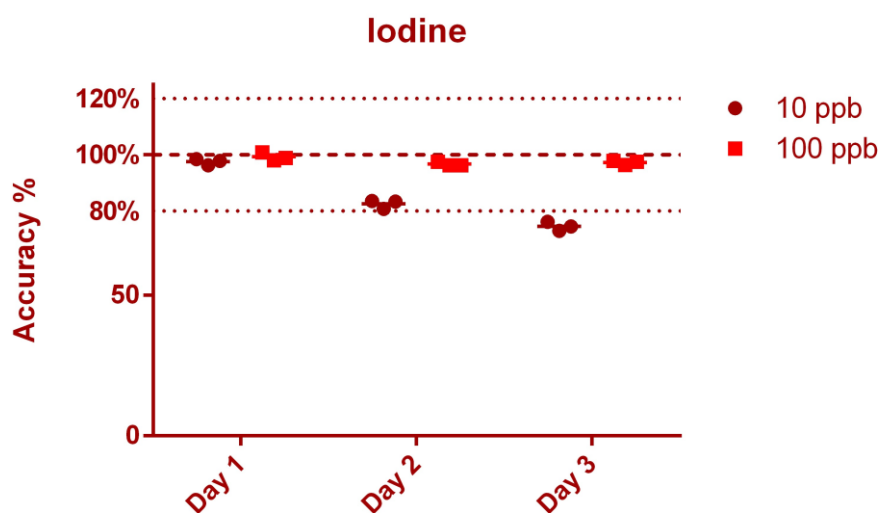


## Iodine

**Method:** ICP-MS

Mean accuracy @ 10 ppb: 84,89 ( $\pm 10,19$ )% (9 Measurements split over 3 days)

Mean accuracy @ 100 ppb: 97,76 ( $\pm 1,48$ )% (9 Measurements split over 3 days)



## Copper

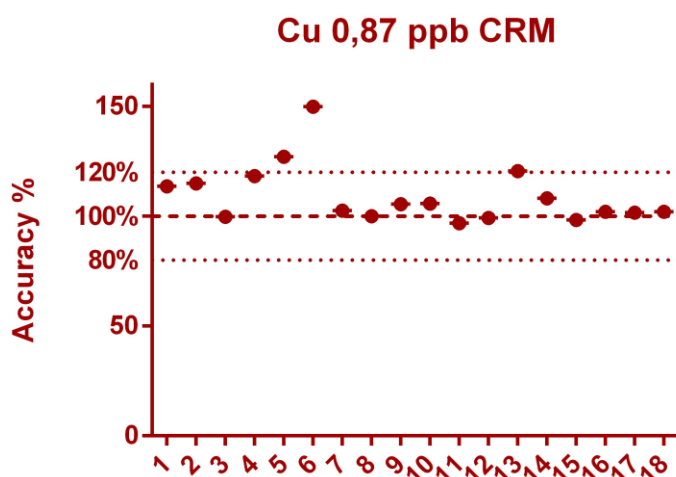
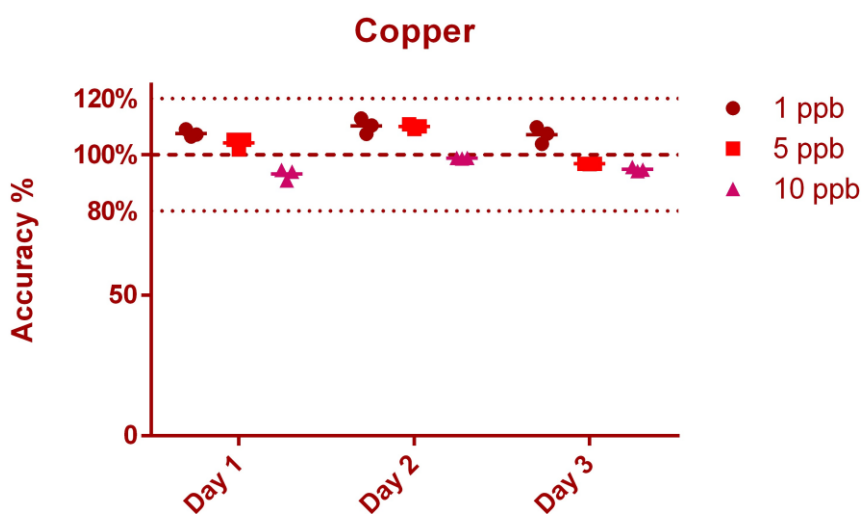
**Method:** ICP-MS

Mean accuracy @ 1 ppb: 108,33 ( $\pm 2,62$ )% (9 Measurements split over 3 days)

Mean accuracy @ 5 ppb: 103,70 ( $\pm 5,87$ )% (9 Measurements split over 3 days)

Mean accuracy @ 10 ppb: 95,62 ( $\pm 2,72$ )% (9 Measurements split over 3 days)

Mean accuracy @ 0,87 ppb: 109,28 ( $\pm 13,3$ )% (18 Measurements on 18 consecutive days, CRM data)





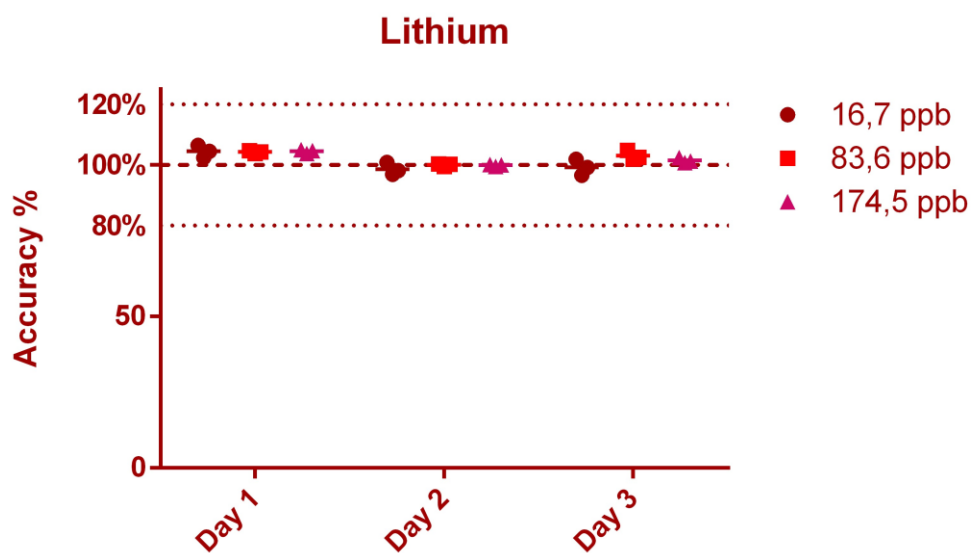
## Lithium

**Method:** ICP-MS

Mean accuracy @ 16,66 ppb: 102,76 ( $\pm 3,49$ )% (9 Measurements split over 3 days)

Mean accuracy @ 83,3 ppb: 103,07 ( $\pm 2,33$ )% (9 Measurements split over 3 days)

Mean accuracy @ 166,6 ppb: 102,51 ( $\pm 2,11$ )% (9 Measurements split over 3 days)



## Manganese

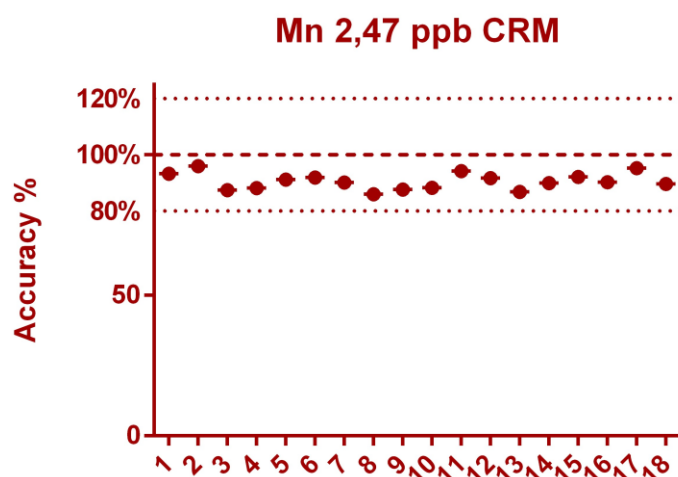
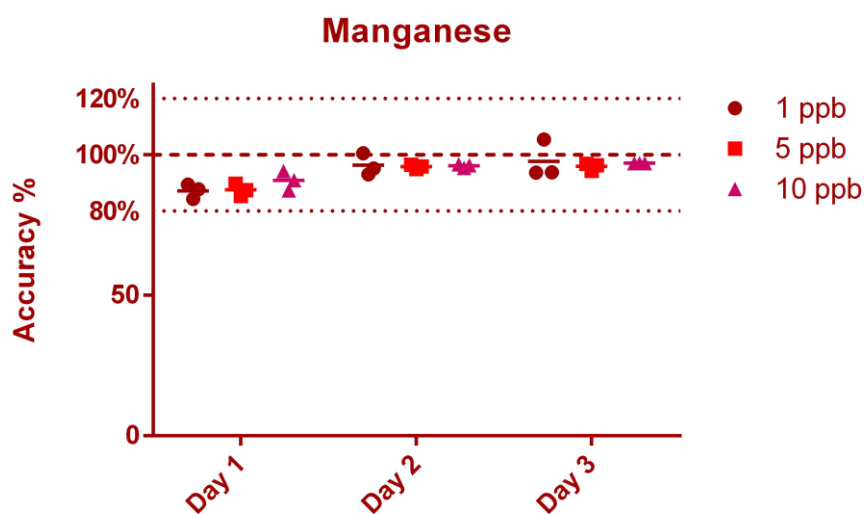
**Method:** ICP-MS

Mean accuracy @ 1 ppb: 93,71 ( $\pm 6,43$ )% (9 Measurements split over 3 days)

Mean accuracy @ 5 ppb: 93,05 ( $\pm 4,35$ )% (9 Measurements split over 3 days)

Mean accuracy @ 10 ppb: 94,65 ( $\pm 3,37$ )% (9 Measurements split over 3 days)

Mean accuracy @ 2,47 ppb: 90,57 ( $\pm 2,92$ )% (18 Measurements on 18 consecutive days, CRM data)



## Molybdenum

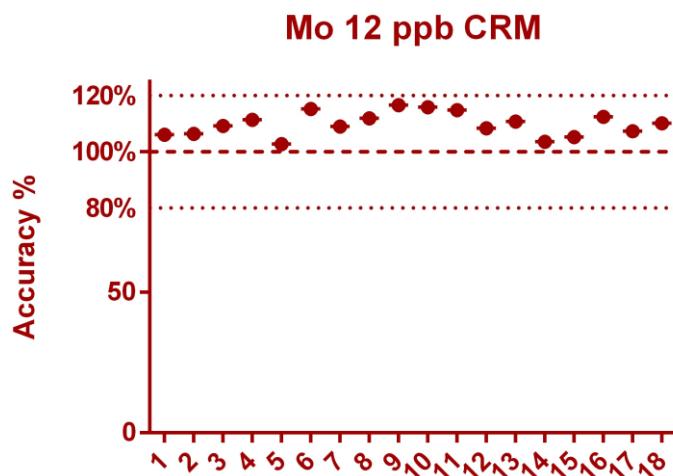
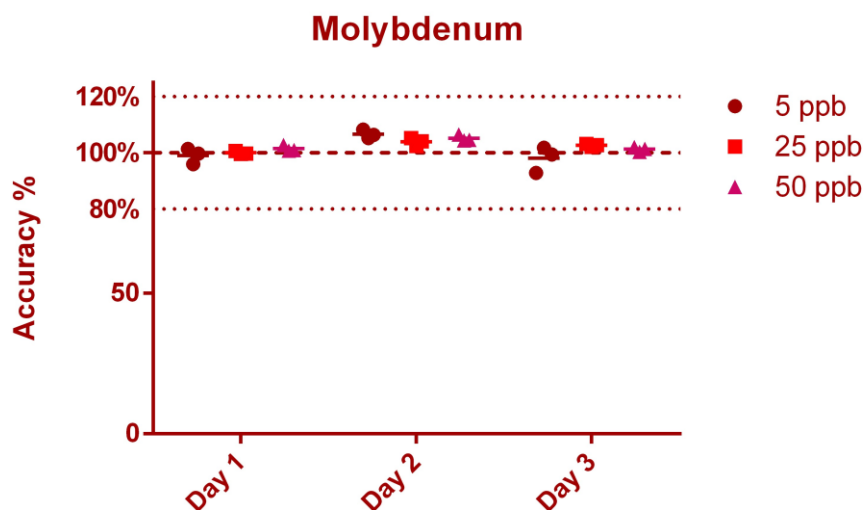
**Method:** ICP-MS

Mean accuracy @ 5 ppb: 101,24 ( $\pm 4,94$ )% (9 Measurements split over 3 days)

Mean accuracy @ 25 ppb: 102,21 ( $\pm 1,92$ )% (9 Measurements split over 3 days)

Mean accuracy @ 50 ppb: 102,65 ( $\pm 2,10$ )% (9 Measurements split over 3 days)

Mean accuracy @ 12 ppb: 109,85 ( $\pm 4,16$ )% (18 Measurements on 18 consecutive days, CRM data)



## Nickel

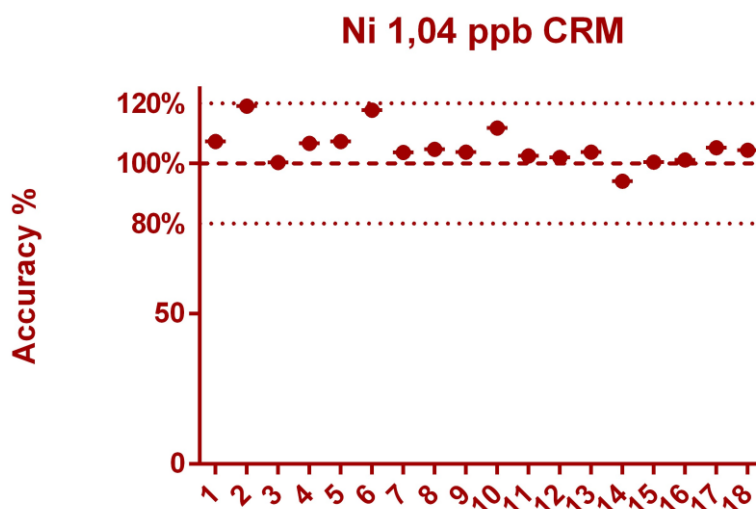
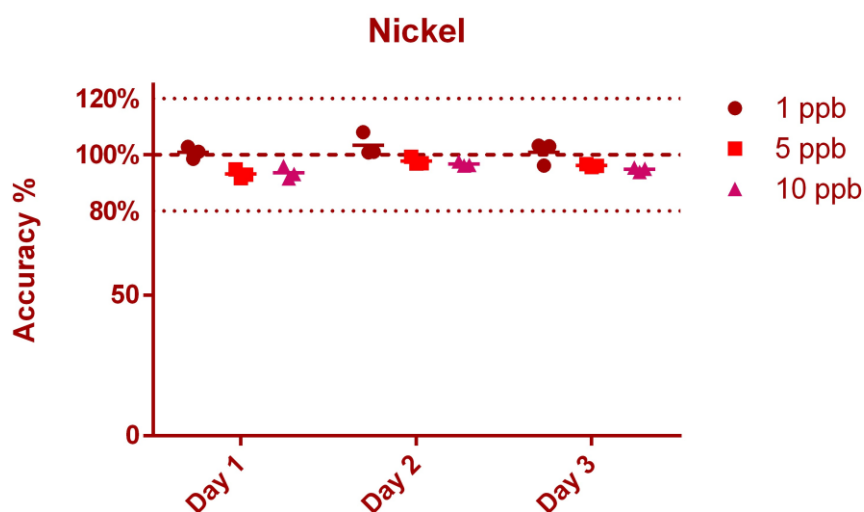
**Method:** ICP-MS

Mean accuracy @ 1 ppb: 101,70 ( $\pm 3,32$ )% (9 Measurements split over 3 days)

Mean accuracy @ 5 ppb: 95,70 ( $\pm 2,26$ )% (9 Measurements split over 3 days)

Mean accuracy @ 10 ppb: 95,05 ( $\pm 1,85$ )% (9 Measurements split over 3 days)

Mean accuracy @ 1,04 ppb: 105,36 ( $\pm 6,02$ )% (18 Measurements on 18 consecutive days, CRM data)



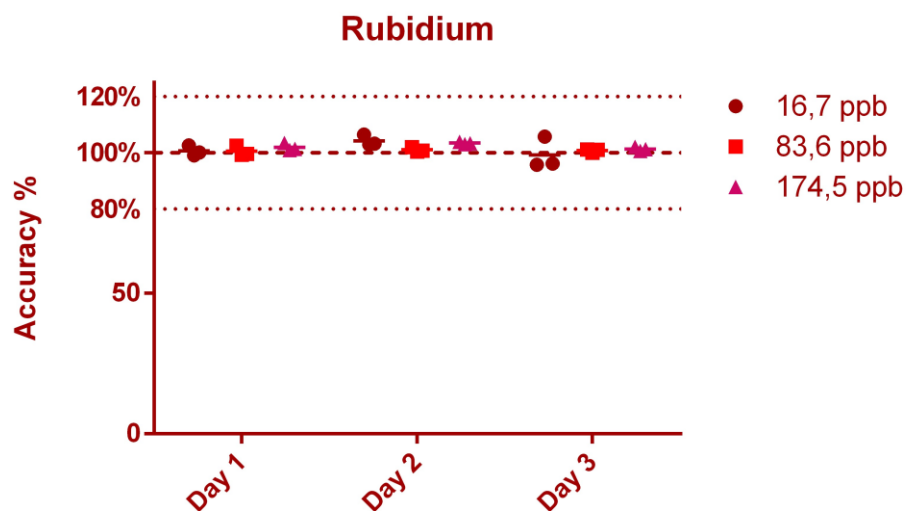
## Rubidium

**Method:** ICP-MS

Mean accuracy @ 16,66 ppb: 102,93 ( $\pm 2,68$ )% (9 Measurements split over 3 days)

Mean accuracy @ 83,30 ppb: 99,66 ( $\pm 2,34$ )% (9 Measurements split over 3 days)

Mean accuracy @ 166,60 ppb: 102,20 ( $\pm 1,22$ )% (9 Measurements split over 3 days)



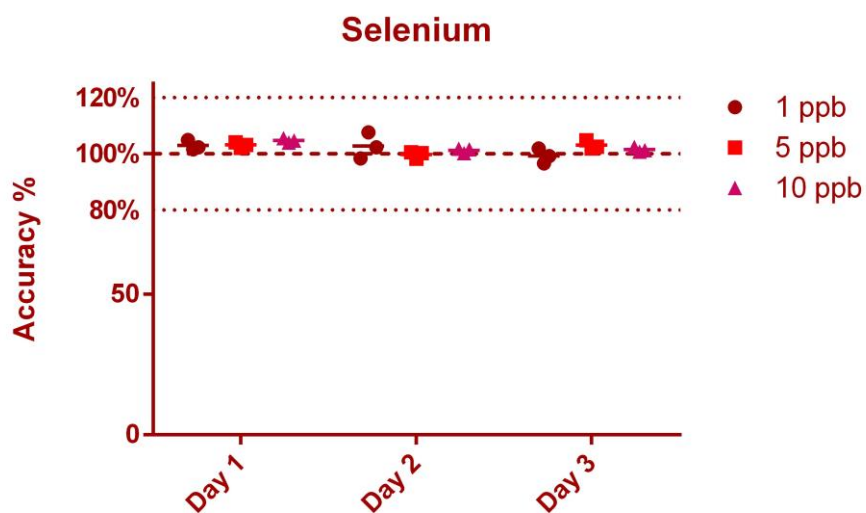
## Selenium

**Method:** ICP-MS

Mean accuracy @ 1 ppb: 101,66 ( $\pm 3,36$ )% (9 Measurements split over 3 days)

Mean accuracy @ 5 ppb: 101,98 ( $\pm 2,03$ )% (9 Measurements split over 3 days)

Mean accuracy @ 10 ppb: 102,50 ( $\pm 1,84$ )% (9 Measurements split over 3 days)



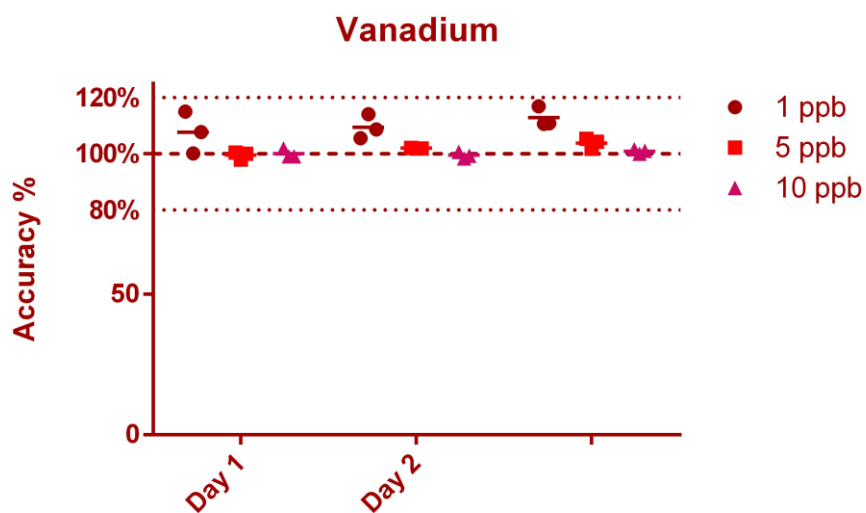
## Vanadium

**Method:** ICP-MS

Mean accuracy @ 1 ppb: 109,99 ( $\pm 5,16$ )% (9 Measurements split over 3 days)

Mean accuracy @ 5 ppb: 101,78 ( $\pm 2,19$ )% (9 Measurements split over 3 days)

Mean accuracy @ 10 ppb: 100,14 ( $\pm 1,24$ )% (9 Measurements split over 3 days)



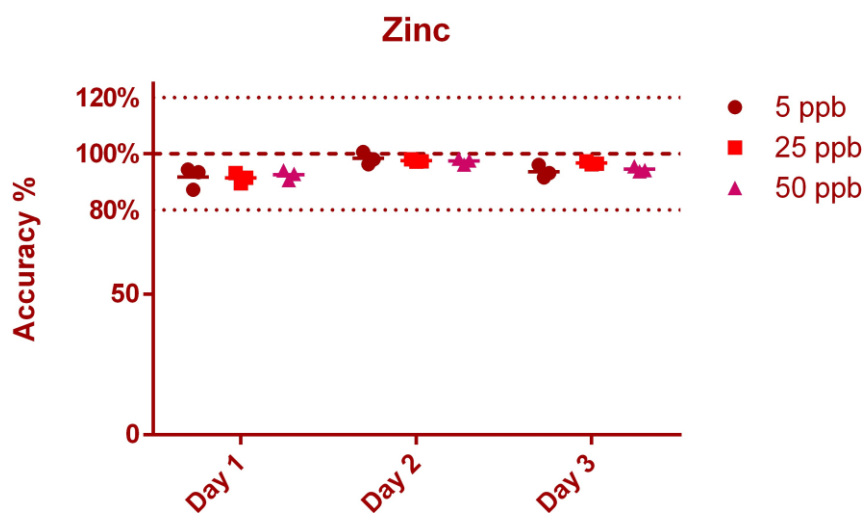
## Zinc

**Method:** ICP-MS

Mean accuracy @ 5 ppb: 94,56 ( $\pm 3,90$ )% (9 Measurements split over 3 days)

Mean accuracy @ 25 ppb: 95,21 ( $\pm 3,05$ )% (9 Measurements split over 3 days)

Mean accuracy @ 50 ppb: 94,82 ( $\pm 2,39$ )% (9 Measurements split over 3 days)





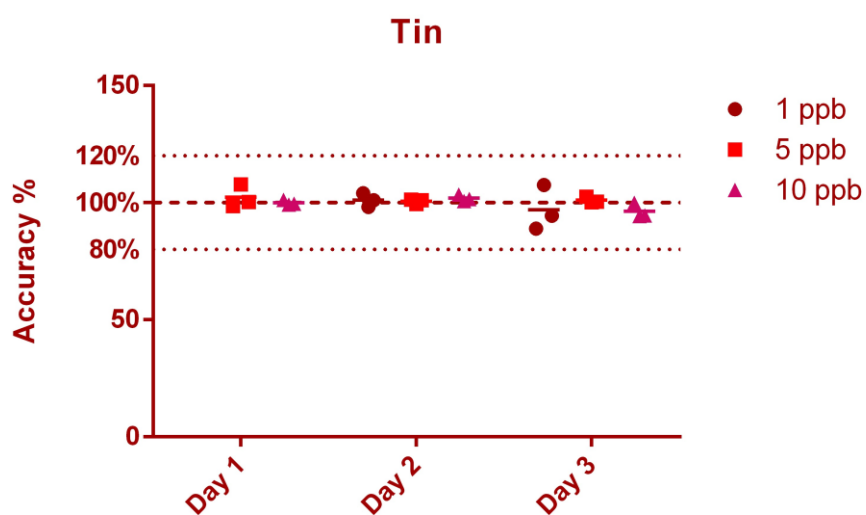
## Tin

**Method:** ICP-MS

Mean accuracy @ 1 ppb: 99,02 ( $\pm 6,73$ )% (6 Measurements split over 2 days)

Mean accuracy @ 5 ppb: 101,31 ( $\pm 2,70$ )% (9 Measurements split over 3 days)

Mean accuracy @ 10 ppb: 99,38 ( $\pm 3,09$ )% (9 Measurements split over 3 days)



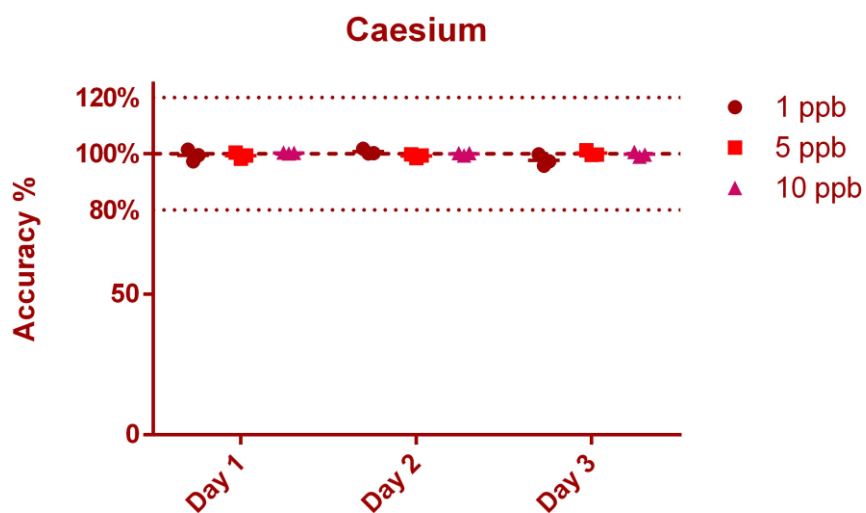
## Caesium

**Method:** ICP-MS

Mean accuracy @ 1 ppb: 99,28 ( $\pm 2,04$ )% (9 Measurements split over 3 days)

Mean accuracy @ 5 ppb: 99,61 ( $\pm 0,92$ )% (9 Measurements split over 3 days)

Mean accuracy @ 10 ppb: 100,02 ( $\pm 0,52$ )% (9 Measurements split over 3 days)



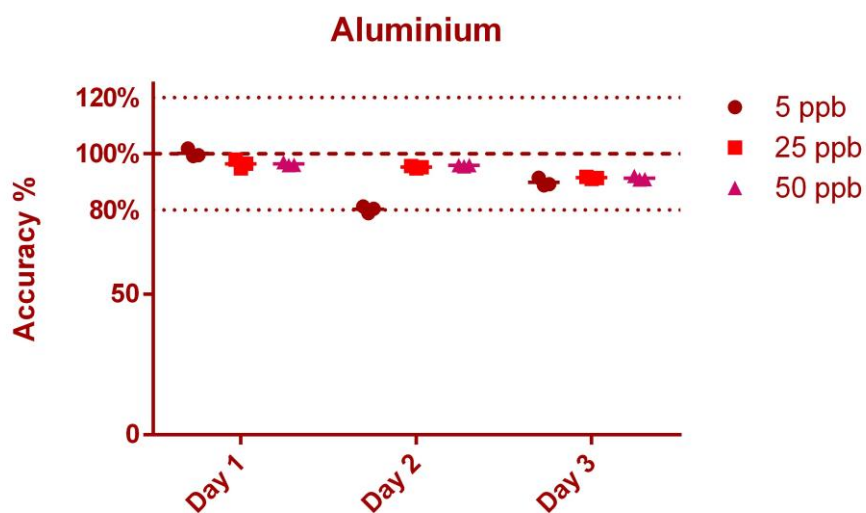
## Aluminium

**Method:** ICP-MS

Mean accuracy @ 5 ppb: 90,10 ( $\pm 8,73$ )% (9 Measurements split over 3 days)

Mean accuracy @ 25 ppb: 94,40 ( $\pm 2,41$ )% (9 Measurements split over 3 days)

Mean accuracy @ 50 ppb: 94,51 ( $\pm 2,45$ )% (9 Measurements split over 3 days)



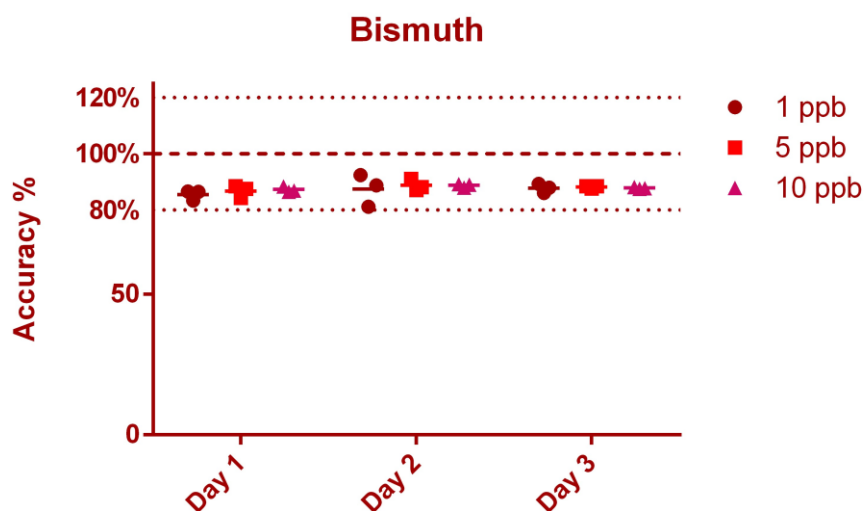
## Bismuth

**Method:** ICP-MS

Mean accuracy @ 1 ppb: 86,92 ( $\pm 3,29$ )% (9 Measurements split over 3 days)

Mean accuracy @ 5 ppb: 87,92 ( $\pm 1,78$ )% (9 Measurements split over 3 days)

Mean accuracy @ 10 ppb: 87,96 ( $\pm 0,89$ )% (9 Measurements split over 3 days)



## Lead

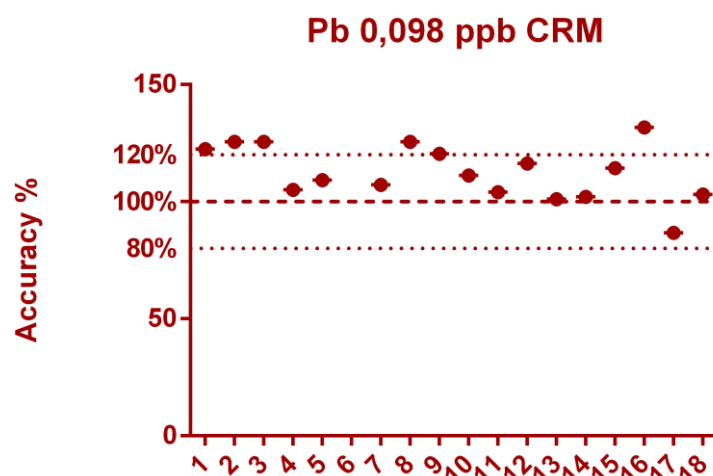
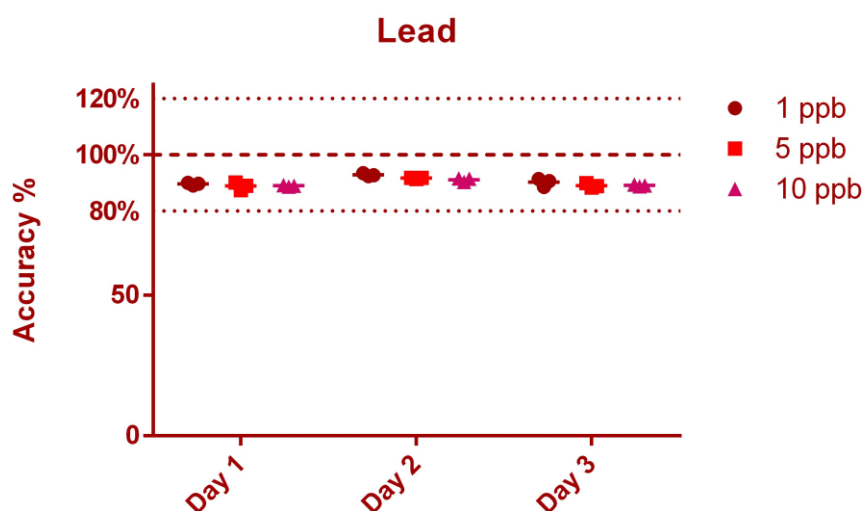
**Method:** ICP-MS

Mean accuracy @ 1 ppb: 90,92 ( $\pm 1,71$ )% (9 Measurements split over 3 days)

Mean accuracy @ 5 ppb: 89,86 ( $\pm 1,56$ )% (9 Measurements split over 3 days)

Mean accuracy @ 10 ppb: 89,74 ( $\pm 1,13$ )% (9 Measurements split over 3 days)

Mean accuracy @ 0,098 ppb: 115,02 ( $\pm 15,86$ )% (18 Measurements on 18 consecutive days, CRM data)



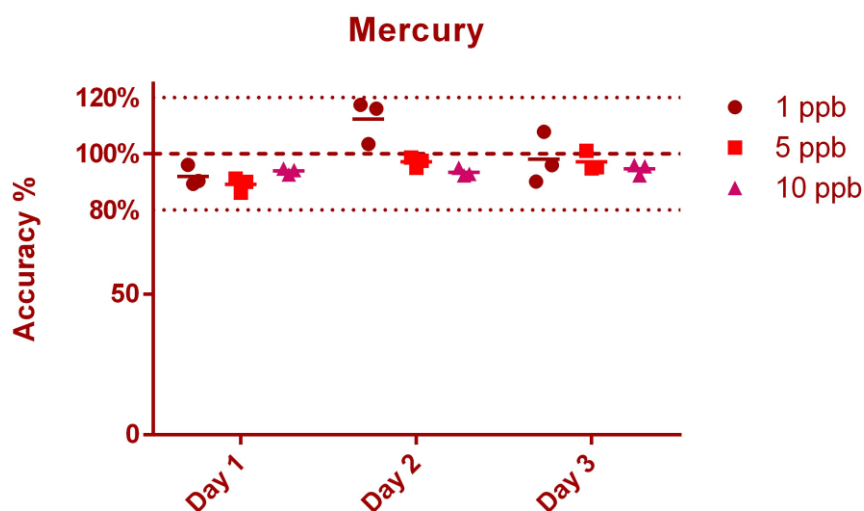
## Mercury

**Method:** ICP-MS

Mean accuracy @ 1 ppb: 103,85 ( $\pm 7,88$ )% (9 Measurements split over 3 days)

Mean accuracy @ 5 ppb: 93,90 ( $\pm 3,23$ )% (9 Measurements split over 3 days)

Mean accuracy @ 10 ppb: 92,41 ( $\pm 2,24$ )% (9 Measurements split over 3 days)



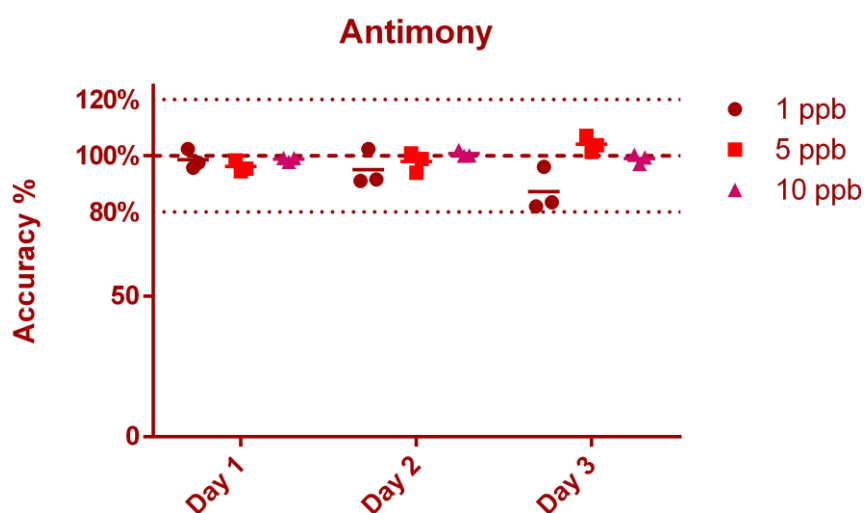
## Antimony

**Method:** ICP-MS

Mean accuracy @ 1 ppb: 93,60 ( $\pm 7,31$ )% (9 Measurements split over 3 days)

Mean accuracy @ 5 ppb: 99,39 ( $\pm 4,39$ )% (9 Measurements split over 3 days)

Mean accuracy @ 10 ppb: 99,51 ( $\pm 1,42$ )% (9 Measurements split over 3 days)



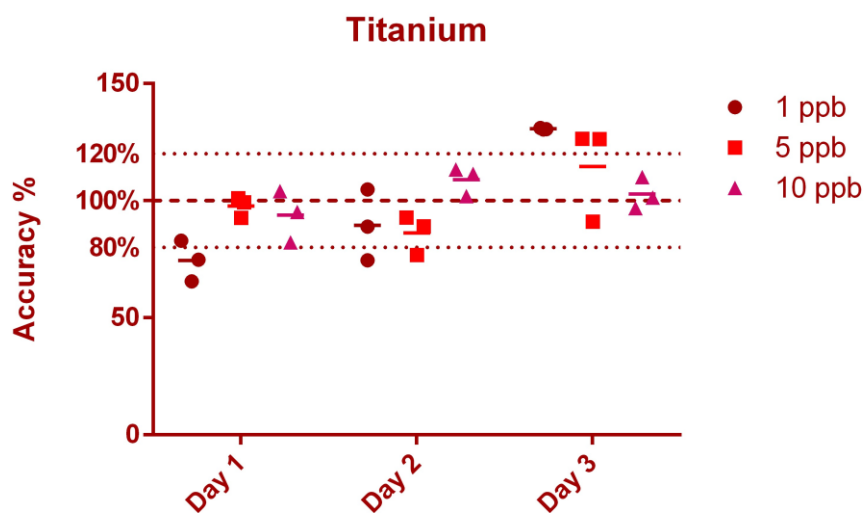
## Titanium

**Method:** ICP-MS

Mean accuracy @ 1 ppb: 98,15 ( $\pm 26,67$ )% (9 Measurements split over 3 days)

Mean accuracy @ 5 ppb: 99,50 ( $\pm 16,70$ )% (9 Measurements split over 3 days)

Mean accuracy @ 10 ppb: 101,81 ( $\pm 9,71$ )% (9 Measurements split over 3 days)





## Cadmium

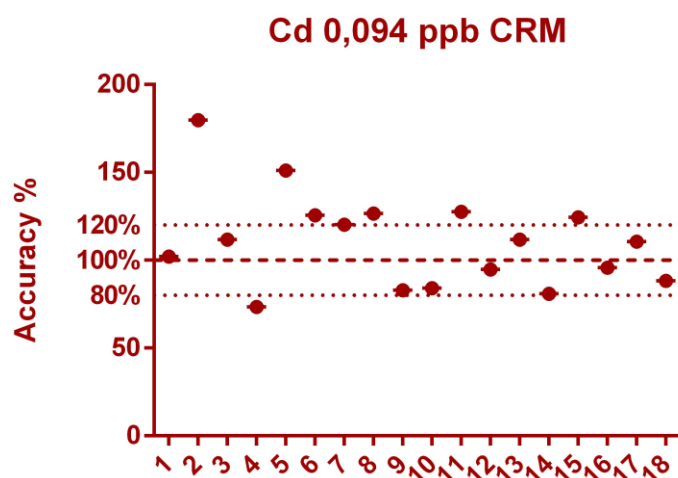
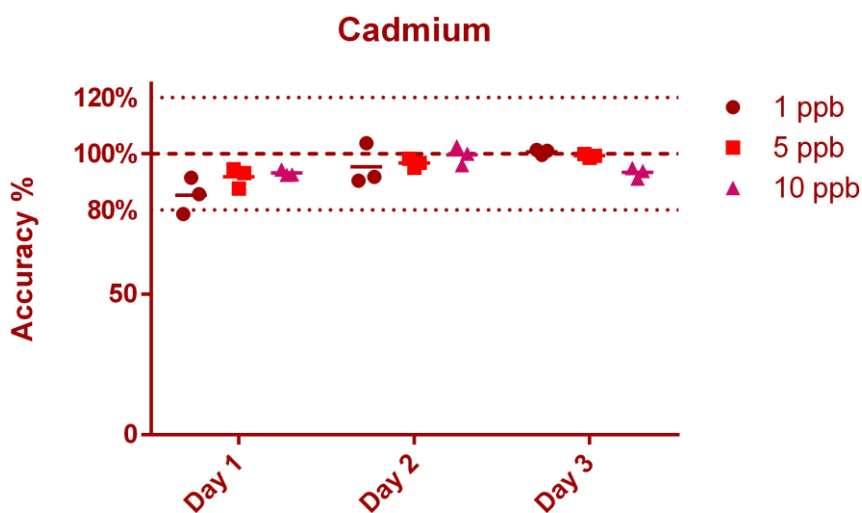
**Method:** ICP-MS

Mean accuracy @ 1 ppb: 93,78 ( $\pm 8,38$ )% (9 Measurements split over 3 days)

Mean accuracy @ 5 ppb: 95,94 ( $\pm 3,86$ )% (9 Measurements split over 3 days)

Mean accuracy @ 10 ppb: 95,38 ( $\pm 3,75$ )% (9 Measurements split over 3 days)

Mean accuracy @ 0,094 ppb: 110,63 ( $\pm 26,85$ )% (18 Measurements on 18 consecutive days, CRM data)



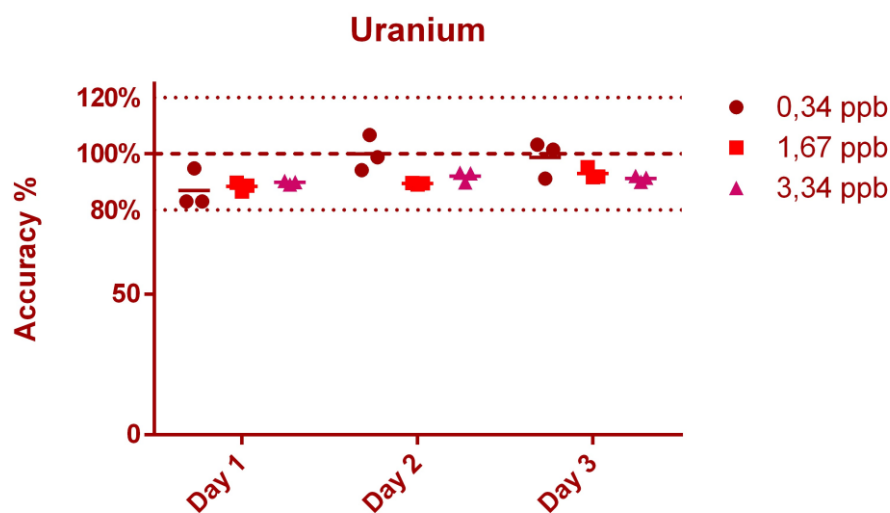
## Uranium

**Method:** ICP-MS

Mean accuracy @ 0,33 ppb: 95,18 ( $\pm 8,39$ )% (9 Measurements split over 3 days)

Mean accuracy @ 1,67 ppb: 90,25 ( $\pm 2,46$ )% (9 Measurements split over 3 days)

Mean accuracy @ 3,34 ppb: 91,03 ( $\pm 1,50$ )% (9 Measurements split over 3 days)



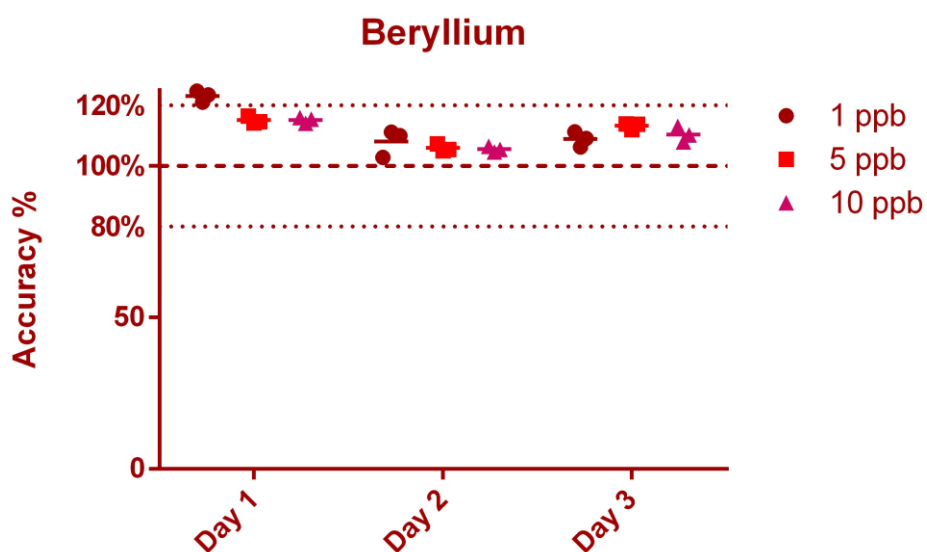
## Beryllium

**Method:** ICP-MS

Mean accuracy @ 1 ppb: 113,36 ( $\pm 7,81$ )% (9 Measurements split over 3 days)

Mean accuracy @ 5 ppb: 111,45 ( $\pm 4,33$ )% (9 Measurements split over 3 days)

Mean accuracy @ 10 ppb: 110,37 ( $\pm 4,42$ )% (9 Measurements split over 3 days)



## Arsenic

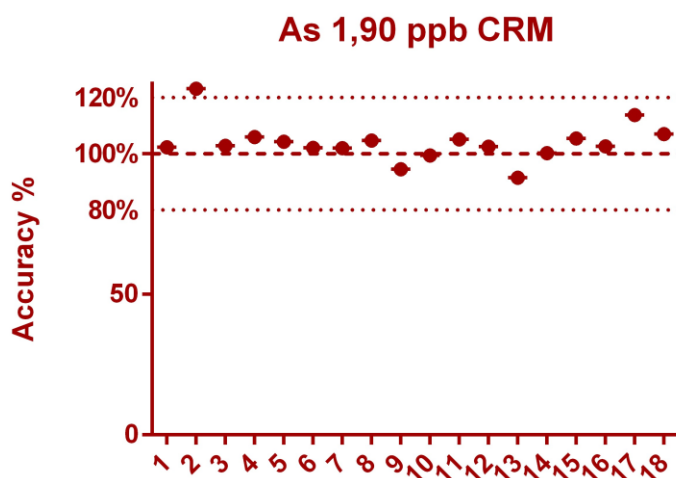
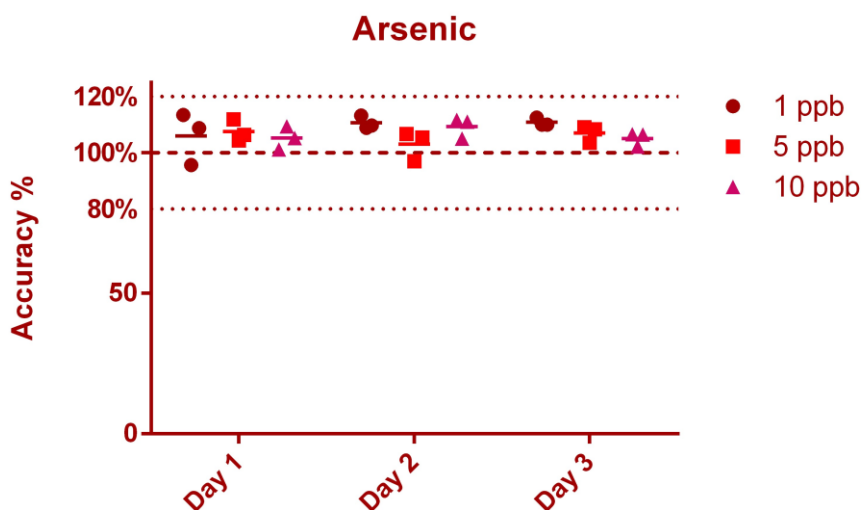
**Method:** ICP-MS

Mean accuracy @ 1 ppb: 109,17 ( $\pm 5,37$ )% (9 Measurements split over 3 days)

Mean accuracy @ 5 ppb: 105,90 ( $\pm 4,19$ )% (9 Measurements split over 3 days)

Mean accuracy @ 10 ppb: 106,55 ( $\pm 3,66$ )% (9 Measurements split over 3 days)

Mean accuracy @ 1,90 ppb: 103,89 ( $\pm 6,77$ )% (18 Measurements on 18 consecutive days, CRM data)



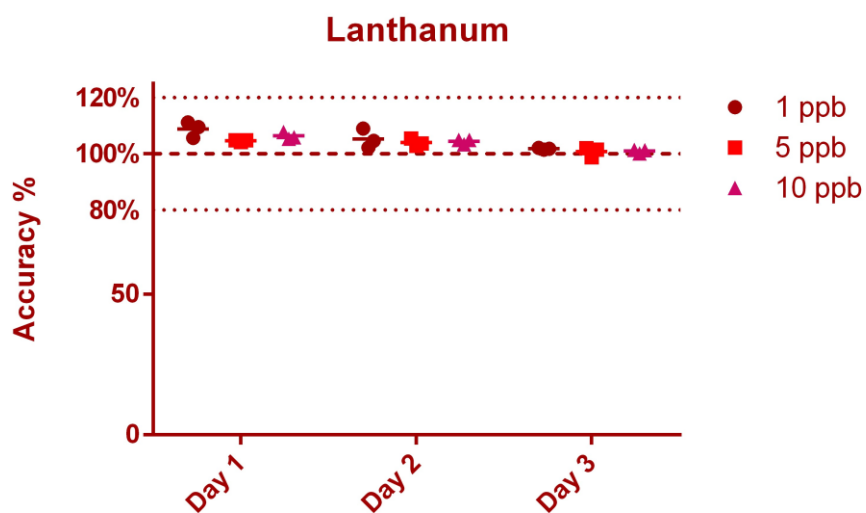
## Lanthanum

**Method:** ICP-MS

Mean accuracy @ 1 ppb: 105,29 ( $\pm 3,76$ )% (9 Measurements split over 3 days)

Mean accuracy @ 5 ppb: 103,16 ( $\pm 2,11$ )% (9 Measurements split over 3 days)

Mean accuracy @ 10 ppb: 103,91 ( $\pm 2,52$ )% (9 Measurements split over 3 days)



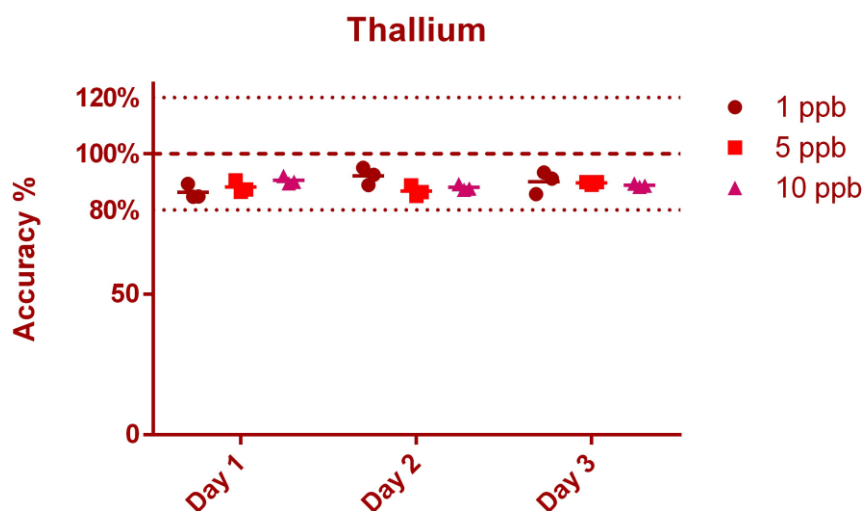
## Thallium

**Method:** ICP-MS

Mean accuracy @ 1 ppb: 89,50 ( $\pm 3,83$ )% (9 Measurements split over 3 days)

Mean accuracy @ 5 ppb: 88,17 ( $\pm 1,91$ )% (9 Measurements split over 3 days)

Mean accuracy @ 10 ppb: 89,15 ( $\pm 1,47$ )% (9 Measurements split over 3 days)



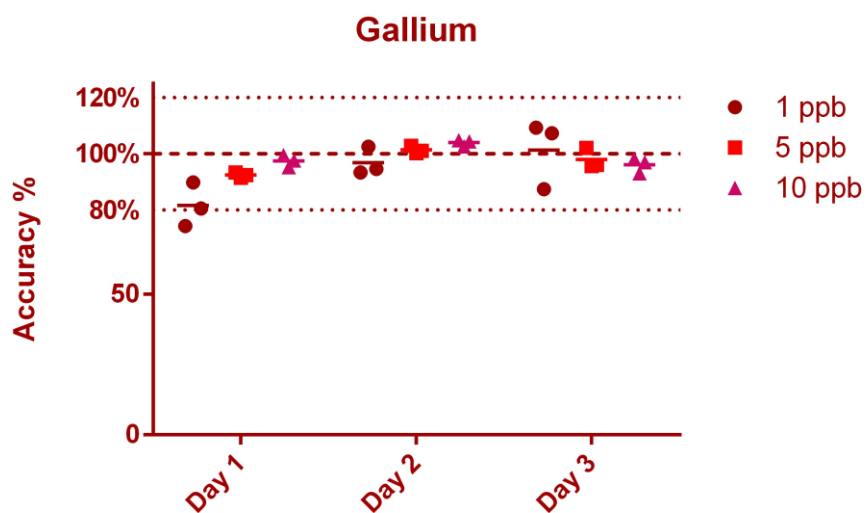
## Gallium

**Method:** ICP-MS

Mean accuracy @ 1 ppb: 93,24 ( $\pm 11,77$ )% (9 Measurements split over 3 days)

Mean accuracy @ 5 ppb: 97,28 ( $\pm 4,39$ )% (9 Measurements split over 3 days)

Mean accuracy @ 10 ppb: 99,20 ( $\pm 4,07$ )% (9 Measurements split over 3 days)



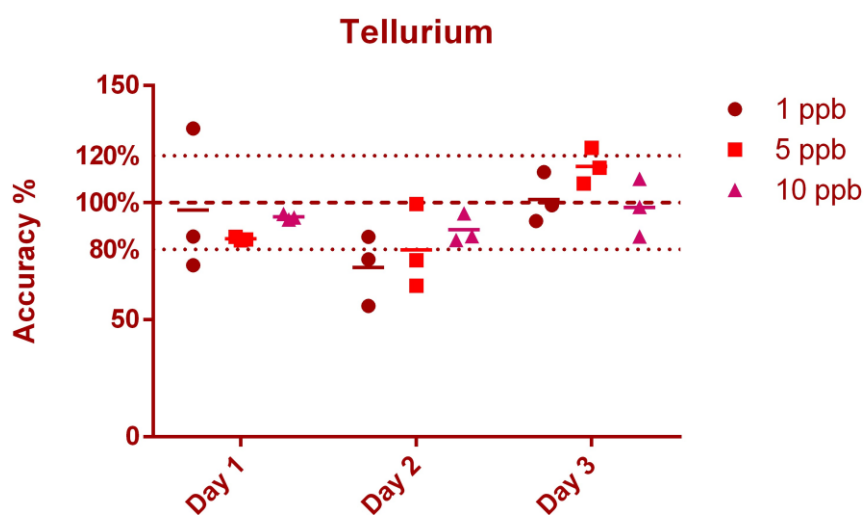
## Tellurium

**Method:** ICP-MS

Mean accuracy @ 1 ppb: 90,18 ( $\pm 22,46$ )% (9 Measurements split over 3 days)

Mean accuracy @ 5 ppb: 93,29 ( $\pm 19,37$ )% (9 Measurements split over 3 days)

Mean accuracy @ 10 ppb: 93,42 ( $\pm 8,06$ )% (9 Measurements split over 3 days)





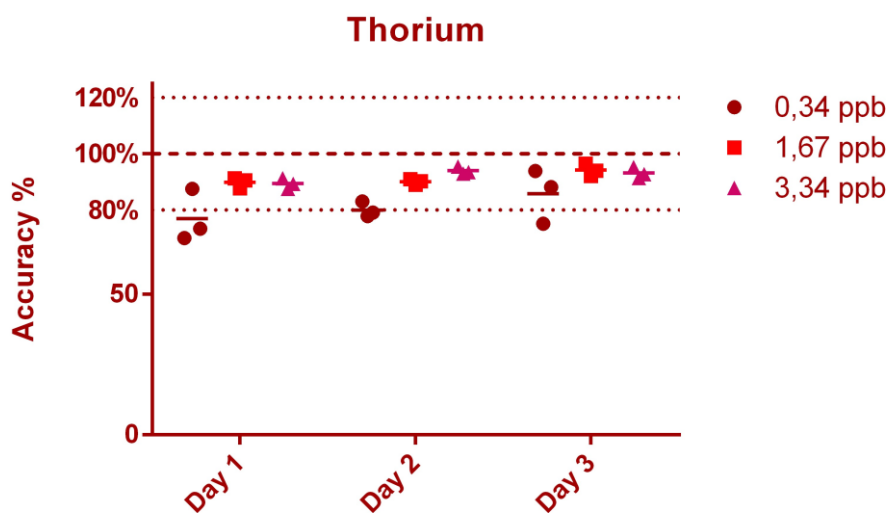
## Thorium

**Method:** ICP-MS

Mean accuracy @ 0,33 ppb: 80,91 ( $\pm 7,85$ )% (9 Measurements split over 3 days)

Mean accuracy @ 1,67 ppb: 91,40 ( $\pm 2,61$ )% (9 Measurements split over 3 days)

Mean accuracy @ 3,34 ppb: 92,18 ( $\pm 2,6$ )% (9 Measurements split over 3 days)



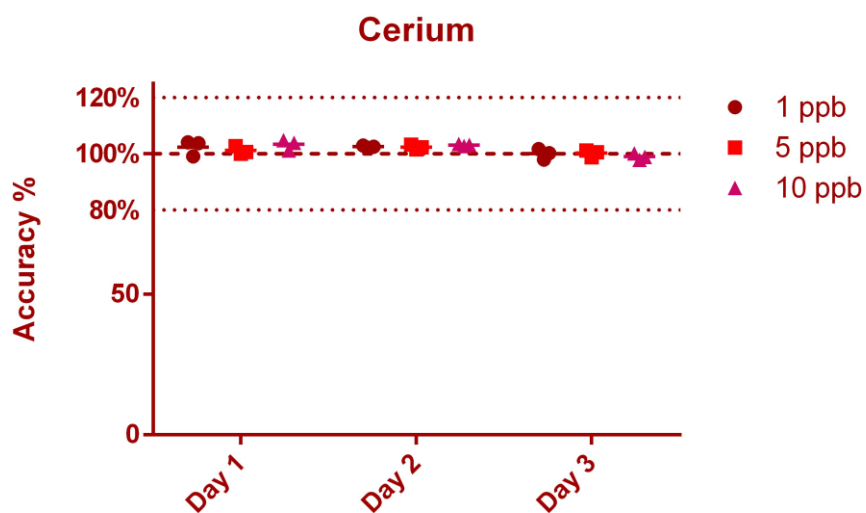
## Cerium

**Method:** ICP-MS

Mean accuracy @ 1 ppb: 101,63 ( $\pm 2,10$ )% (9 Measurements split over 3 days)

Mean accuracy @ 5 ppb: 101,29 ( $\pm 1,39$ )% (9 Measurements split over 3 days)

Mean accuracy @ 10 ppb: 101,82 ( $\pm 2,41$ )% (9 Measurements split over 3 days)



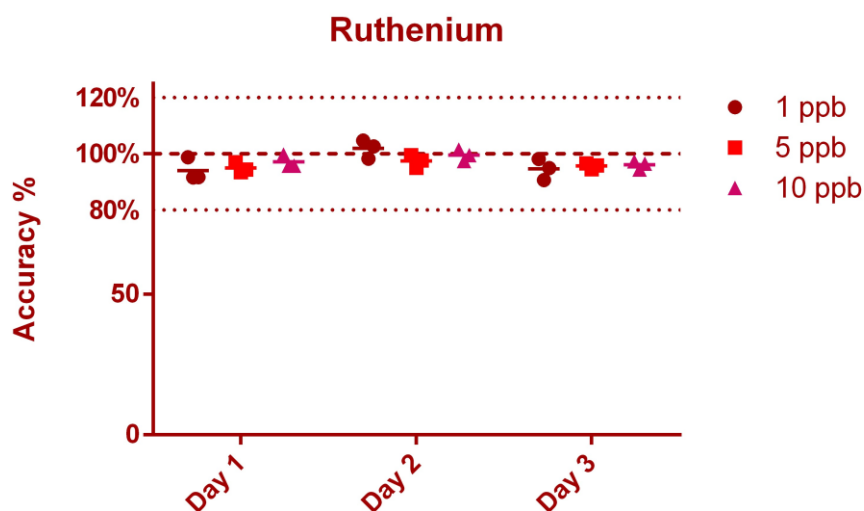
## Ruthenium

**Method:** ICP-MS

Mean accuracy @ 1 ppb: 96,84 ( $\pm 4,99$ )% (9 Measurements split over 3 days)

Mean accuracy @ 5 ppb: 96,02 ( $\pm 1,88$ )% (9 Measurements split over 3 days)

Mean accuracy @ 10 ppb: 97,56 ( $\pm 2,27$ )% (9 Measurements split over 3 days)



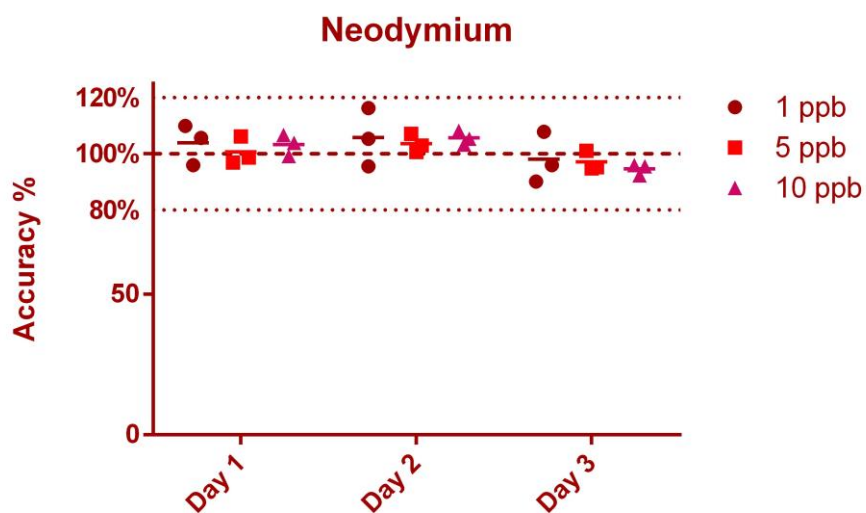
## Neodymium

**Method:** ICP-MS

Mean accuracy @ 1 ppb: 102,56 ( $\pm 8,49$ )% (9 Measurements split over 3 days)

Mean accuracy @ 5 ppb: 100,43 ( $\pm 4,45$ )% (9 Measurements split over 3 days)

Mean accuracy @ 10 ppb: 101,21 ( $\pm 5,57$ )% (9 Measurements split over 3 days)



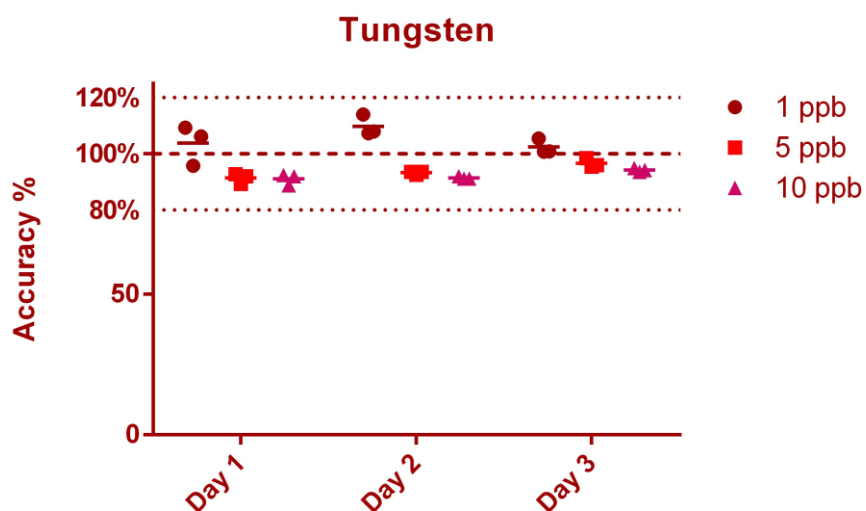
## Tungsten

**Method:** ICP-MS

Mean accuracy @ 1 ppb: 102,22 ( $\pm 9,90$ )% (9 Measurements split over 3 days)

Mean accuracy @ 5 ppb: 94,30 ( $\pm 4,28$ )% (9 Measurements split over 3 days)

Mean accuracy @ 10 ppb: 93,85 ( $\pm 1,02$ )% (9 Measurements split over 3 days)

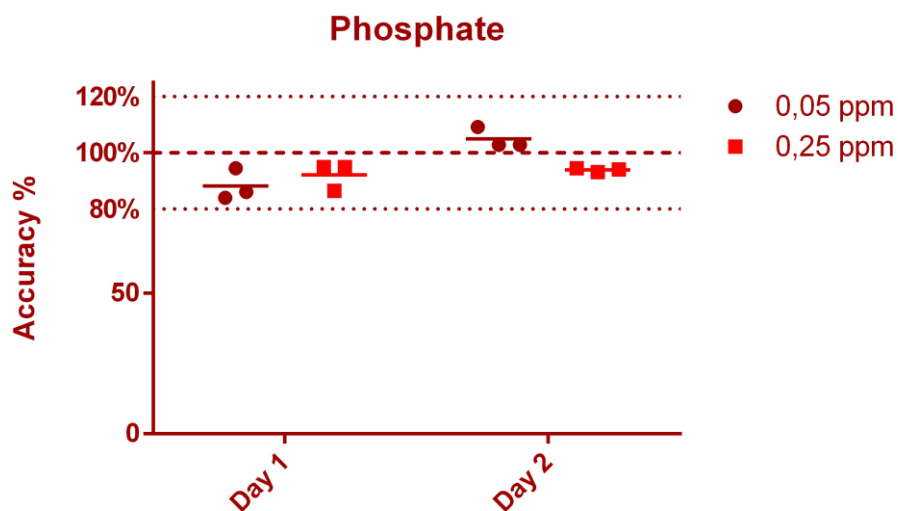


## Phosphate

**Method:** UV/VIS-Photometry

Mean accuracy @ 0,05 ppm: 96,59 ( $\pm 10,11$ )% (6 Measurements split over 2 days)

Mean accuracy @ 0,25 ppm: 93,02 ( $\pm 3,25$ )% (6 Measurements split over 2 days)

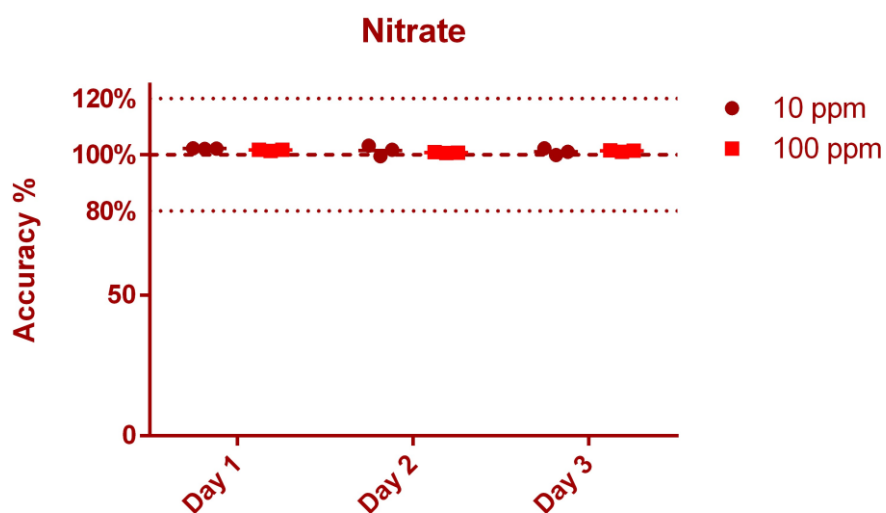


## Nitrate

**Method:** Anion-Chromatography

Mean accuracy @ 10 ppm: 101,64 ( $\pm 1,24$ )% (9 Measurements split over 3 days)

Mean accuracy @ 100 ppm: 101,30 ( $\pm 0,43$ )% (9 Measurements split over 3 days)

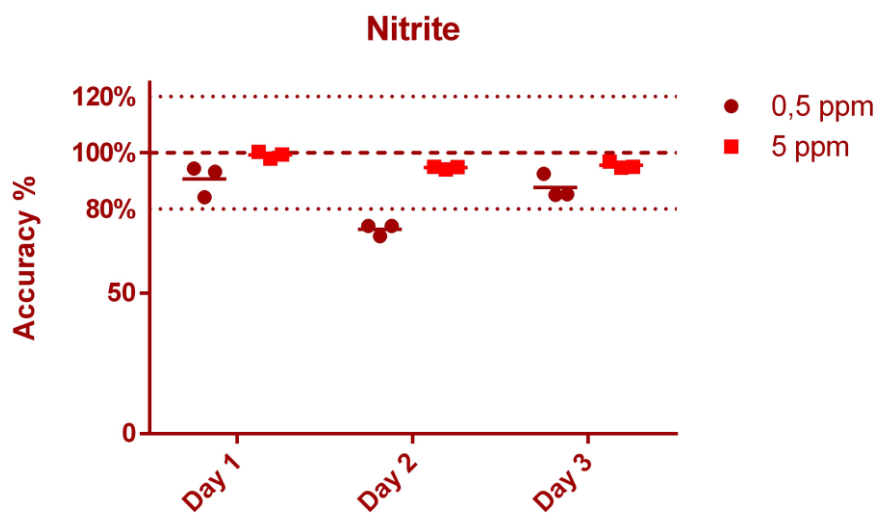


## Nitrite

**Method:** Anion-Chromatography

Mean accuracy @ 0,5 ppm: 83,68 ( $\pm 9,06$ )% (9 Measurements split over 3 days)

Mean accuracy @ 5 ppm: 96,51 ( $\pm 2,27$ )% (9 Measurements split over 3 days)



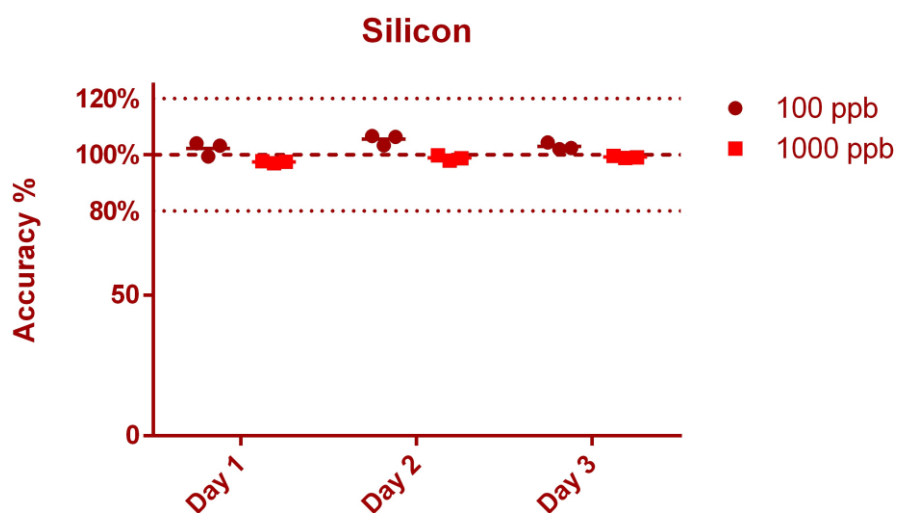


## Silicon

**Method:** ICP-MS

Mean accuracy @ 100 ppb: 103,58 ( $\pm 2,26$ )% (9 Measurements split over 3 days)

Mean accuracy @ 1000 ppb: 98,52 ( $\pm 0,99$ )% (9 Measurements split over 3 days)



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