



NA 119 Normenausschuss Wasserwesen (NAW)

[NA 119-01-03 AA](#) Arbeitsausschuss Wasseruntersuchung (CEN/TC 230, ISO/TC 147)

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**DIN 38407-36 PSM HPLC-MS Validierungsdokument 2014-03 Anlage 2**

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Aktion	Info
Herkunft des Dokumentes	NA 119-01-03-02-16 AK "LC-MS/MS-Verfahren"
Pages	56

## Anlage 2: Graphische Darstellung der Ergebnisse des Ringversuches

**Ausreißer:** Typ A: einzelnes Analyseergebnis eines Labors  
 Typ B: signifikant abweichender Labormittelwert  
 Typ C: signifikant abweichende Wiederholstandardabweichung eines Labors

### Probe 1: Trinkwasser

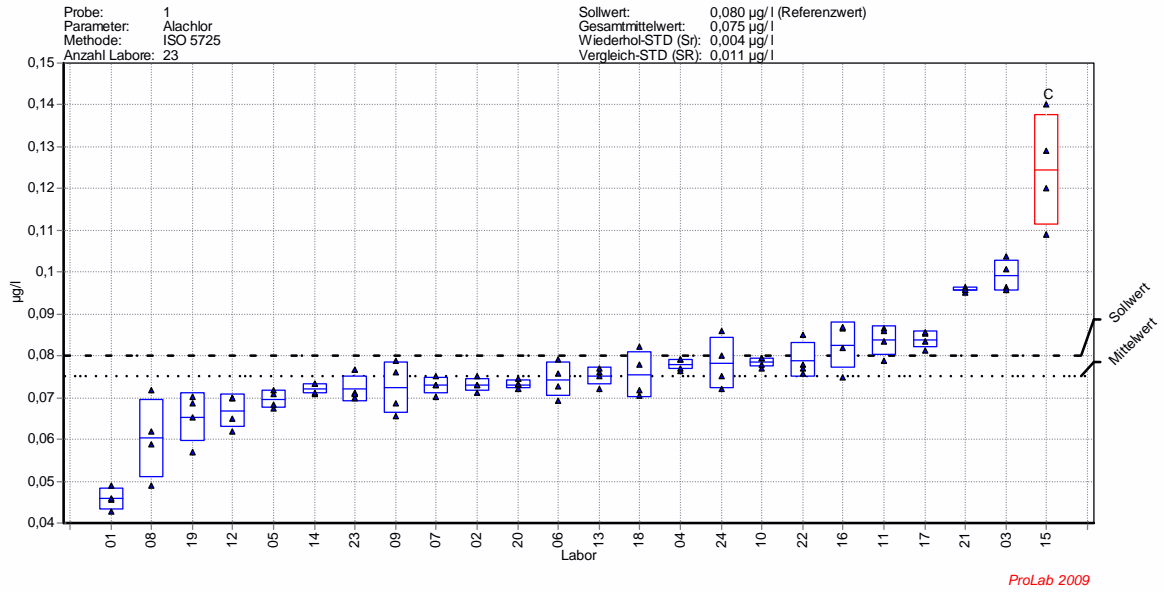


Bild A2-1.1 – Alachlor

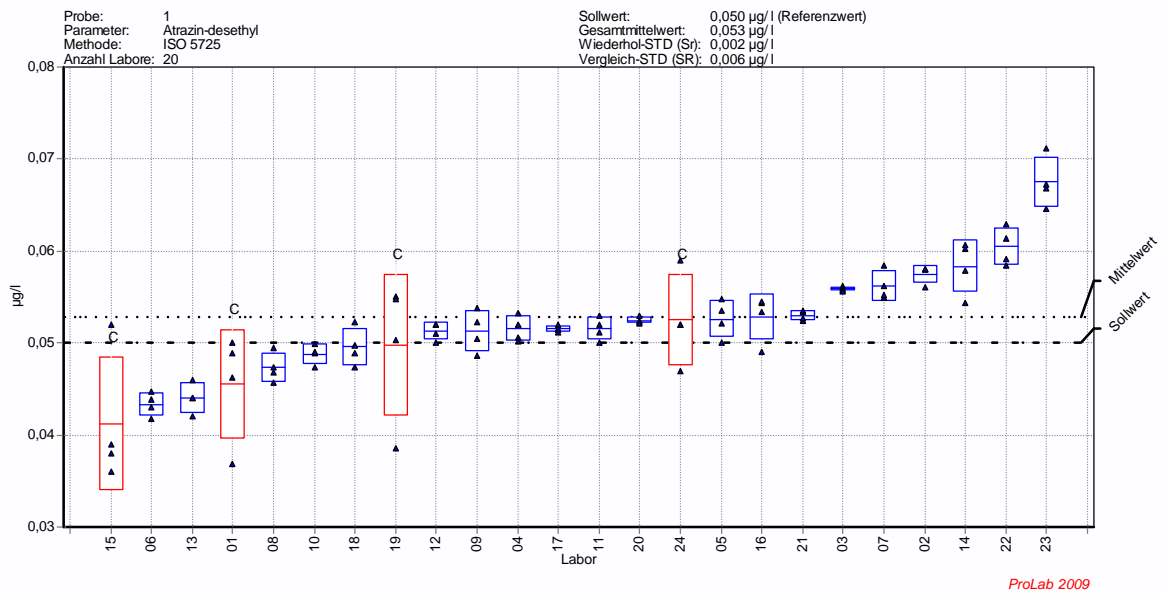


Bild A2-1.2 – Atrazin-desethyl

### Probe 1: Trinkwasser

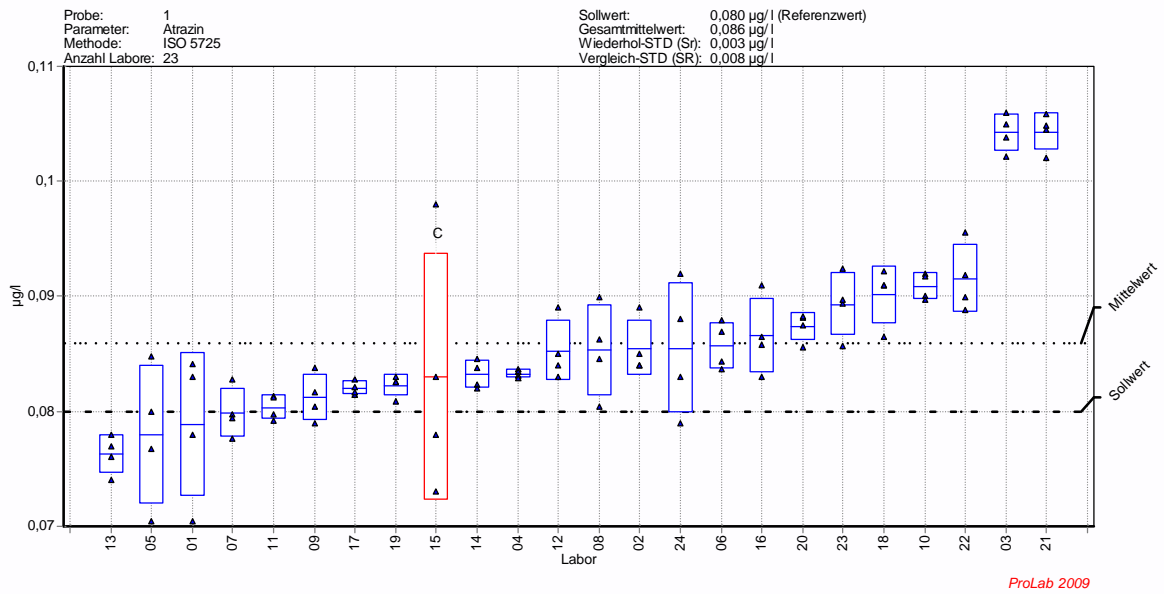


Bild A2-1.3 – Atrazin

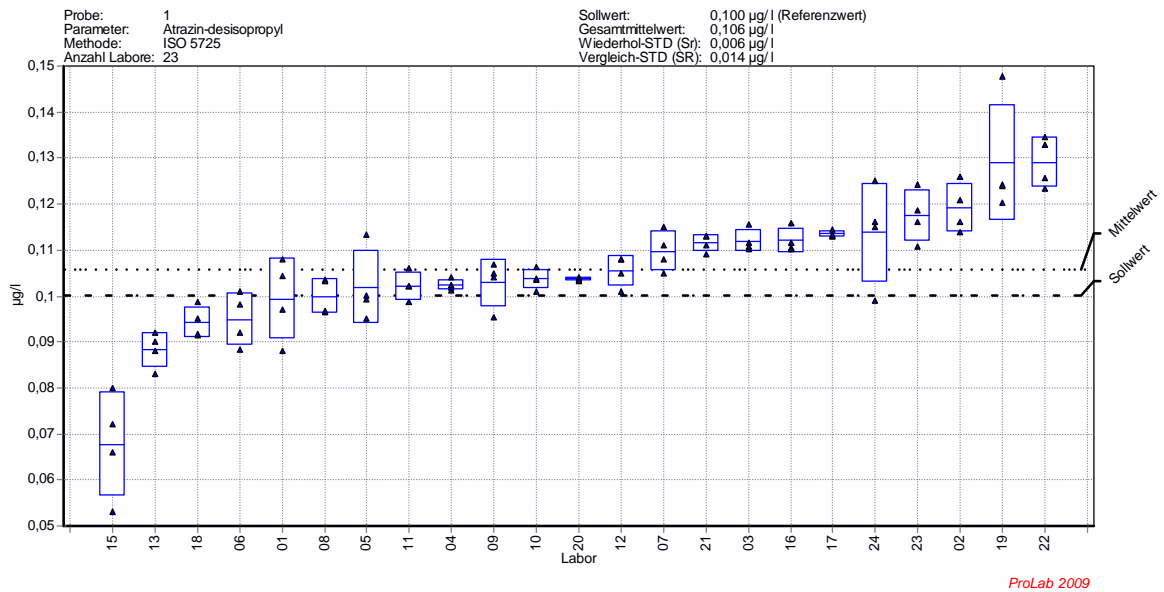


Bild A2-1.4 – Atrazin-desisopropyl

Probe 1: Trinkwasser

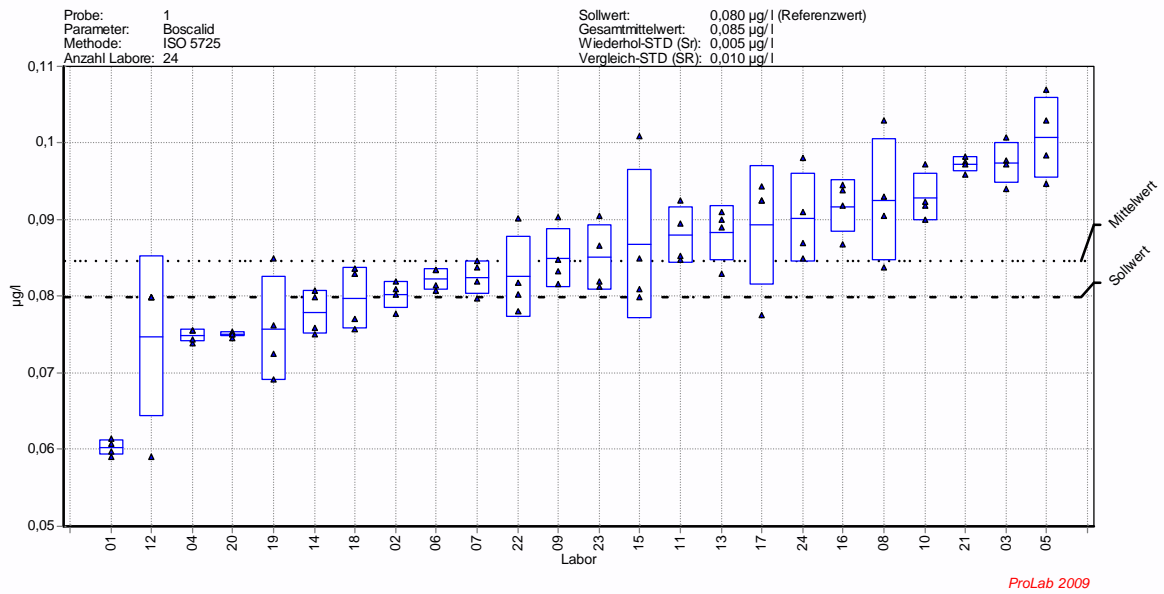


Bild A2-1.5 – Boscalid

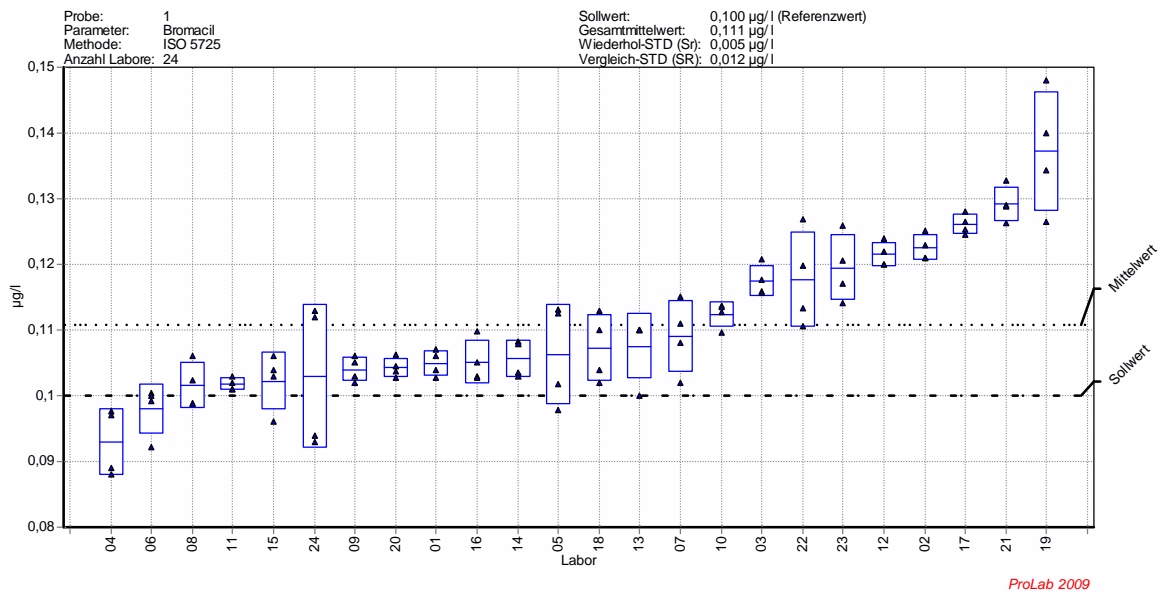


Bild A2-1.6 – Bromacil

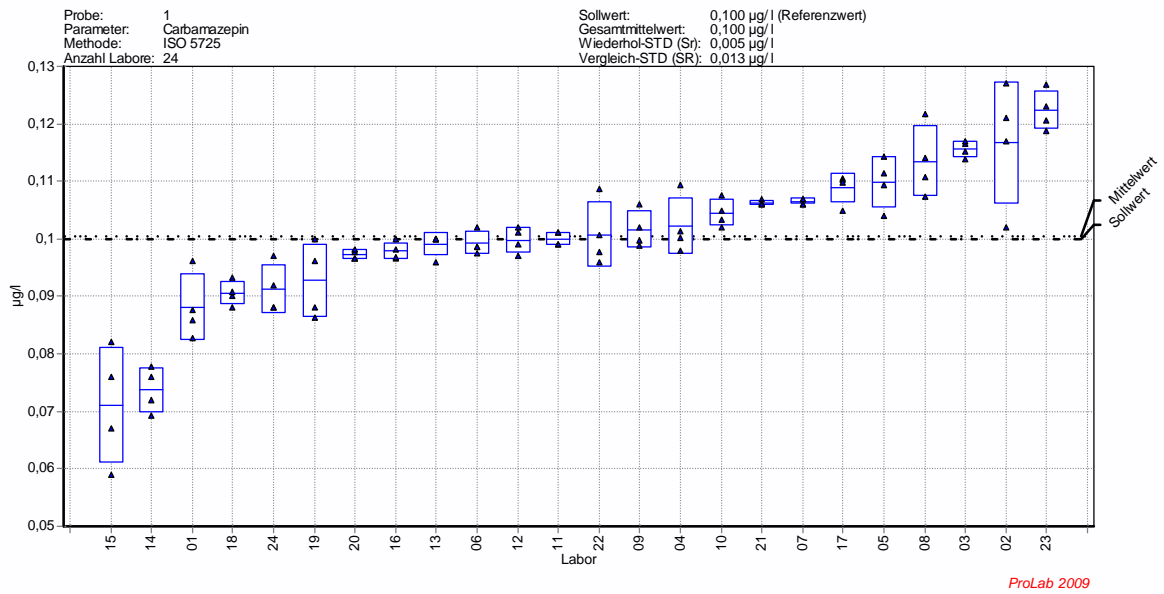


Bild A2-1.7 – Carbamazepin

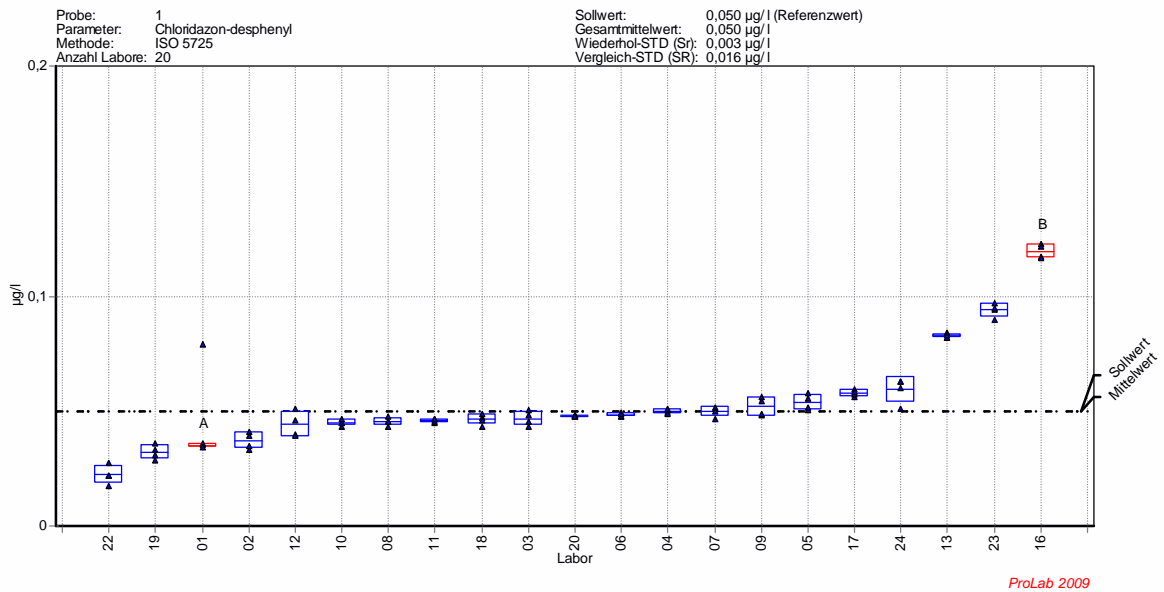


Bild A2-1.8 – Chloridazon-desphenyl

Probe 1: Trinkwasser

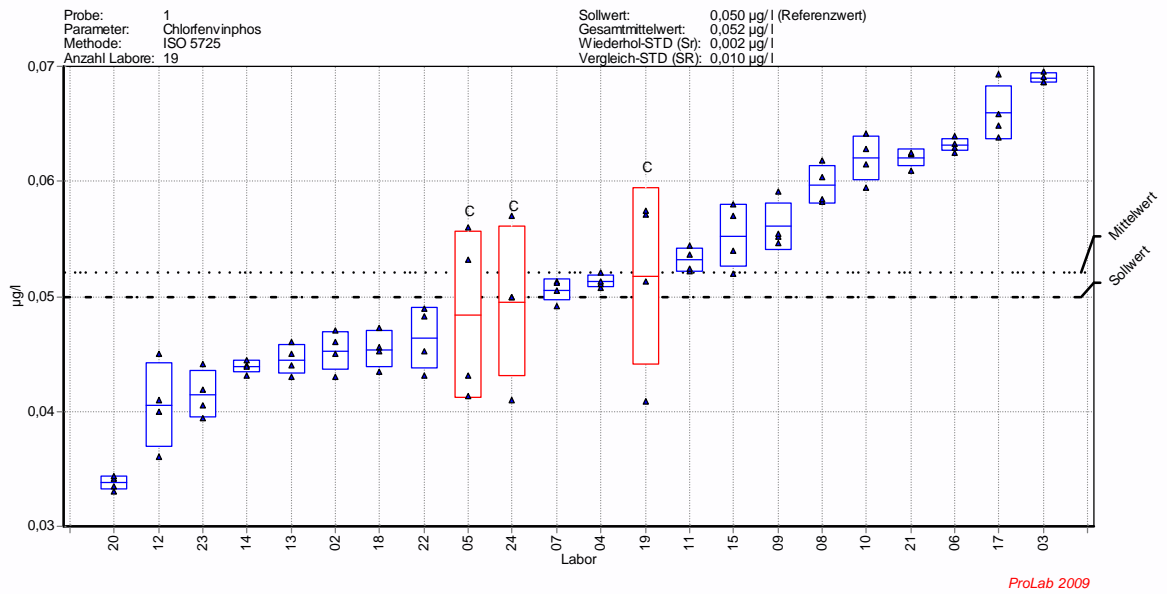


Bild A2-1.9 – Chlorfenvinphos

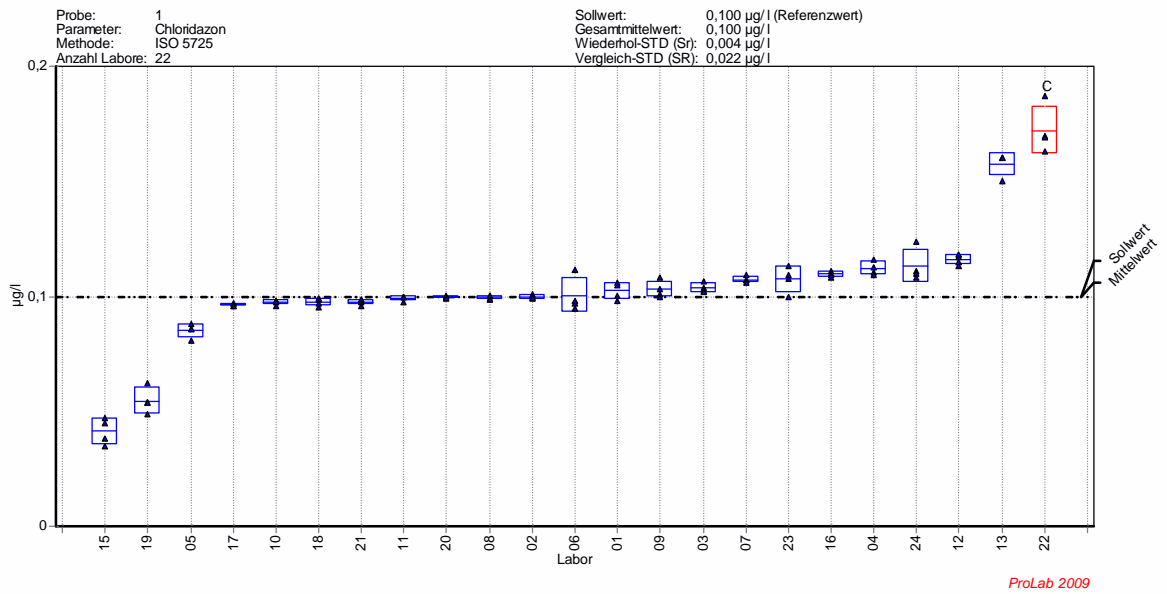


Bild A2-1.10 – Chloridazon

Probe 1: Trinkwasser

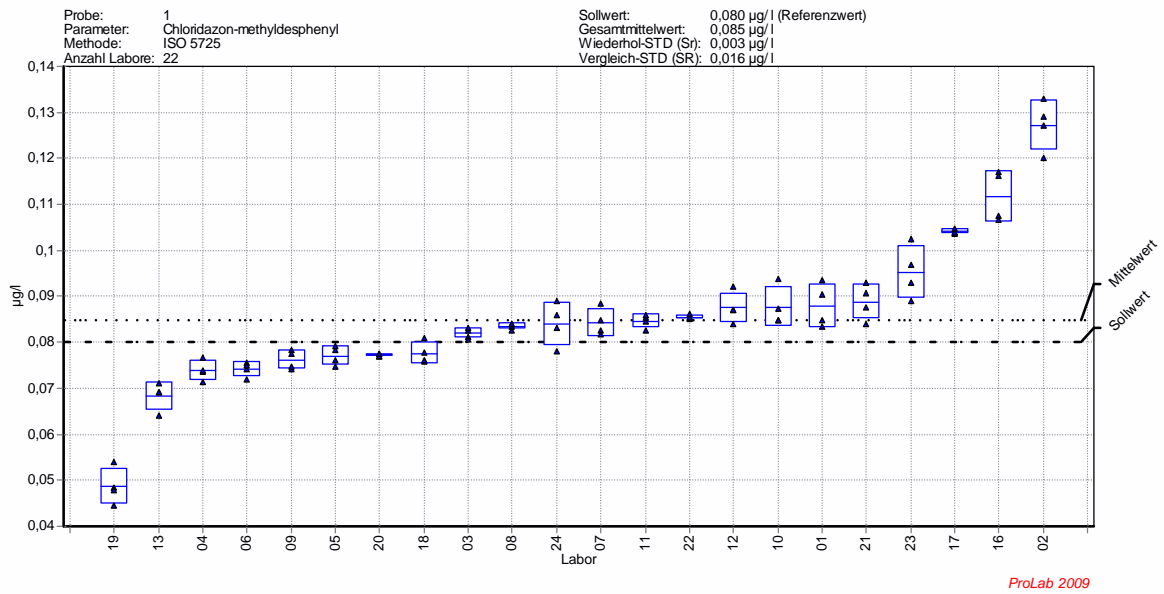


Bild A2-1.11 – Chloridazon-methyl-desphenyl

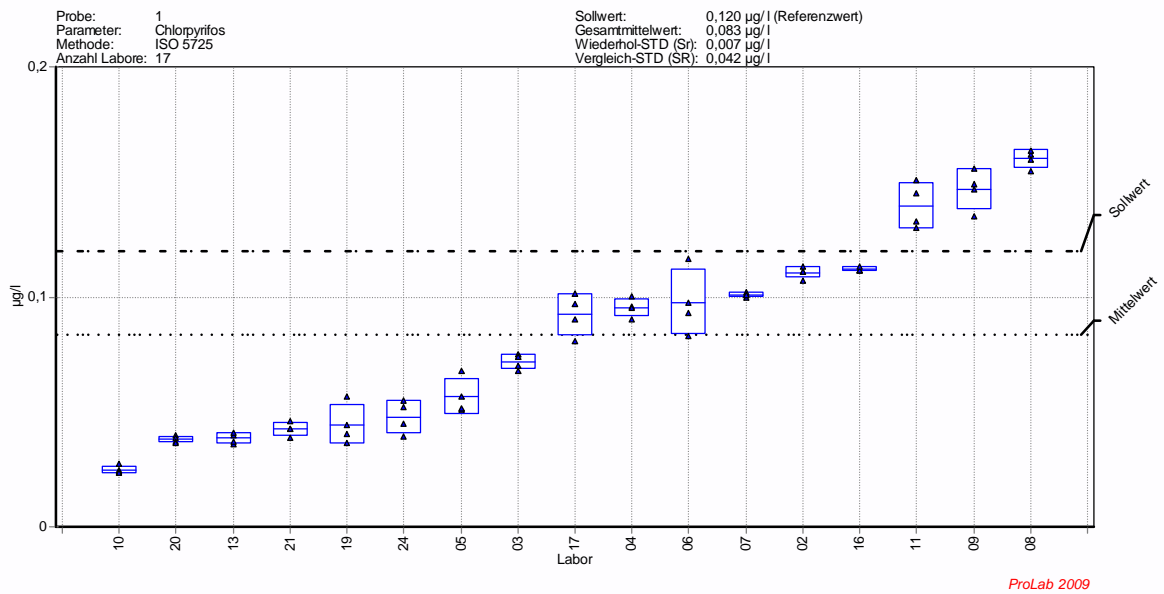


Bild A2-1.12 – Chlorpyrifos

Probe 1: Trinkwasser

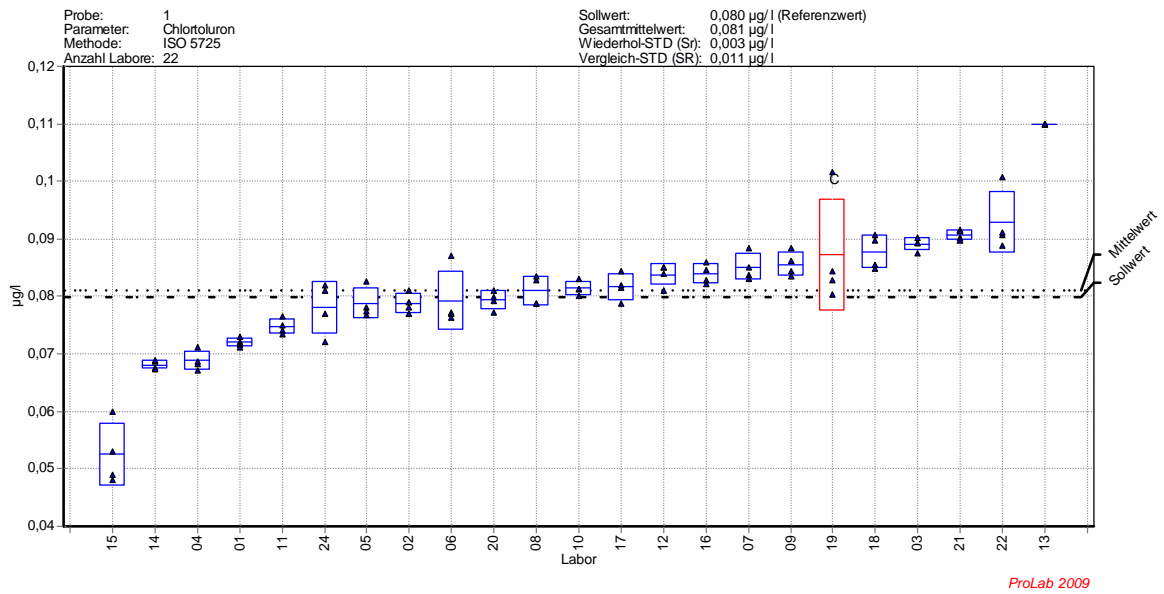


Bild A2-1.13 – Chlortoluron

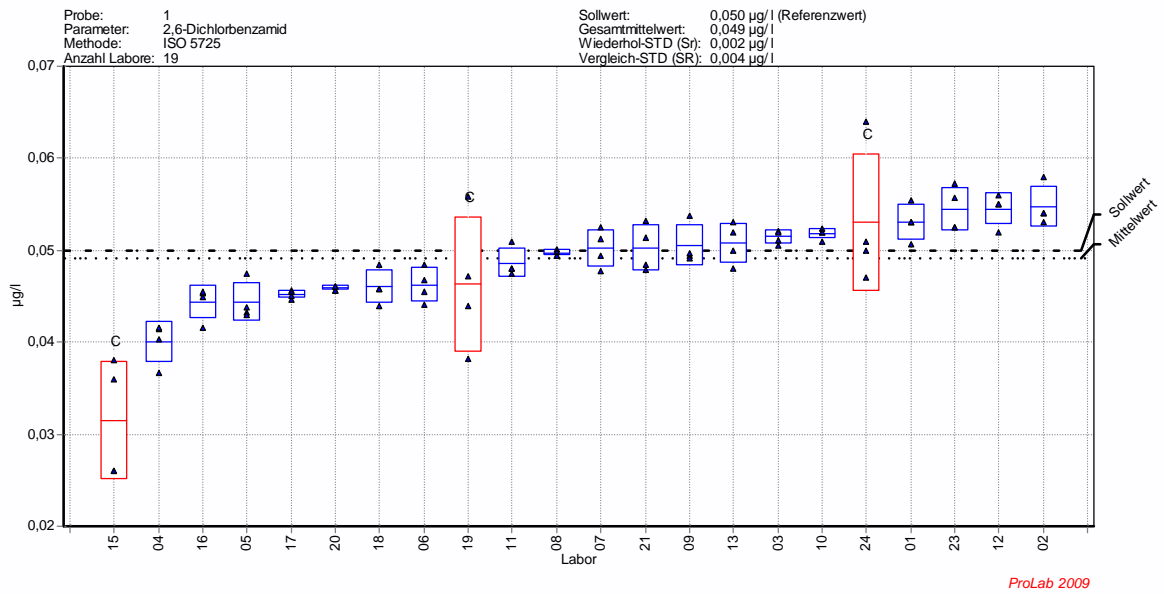


Bild A2-1.14 – 2,6-Dichlorbenzamid

Probe 1: Trinkwasser



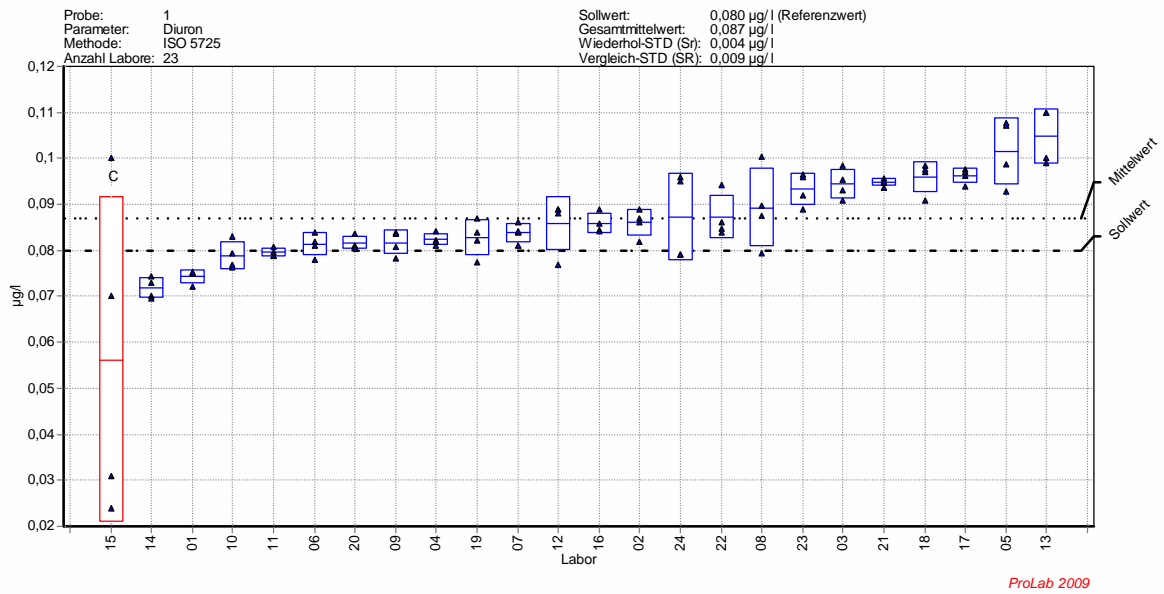


Bild A2-1.15 – Diuron

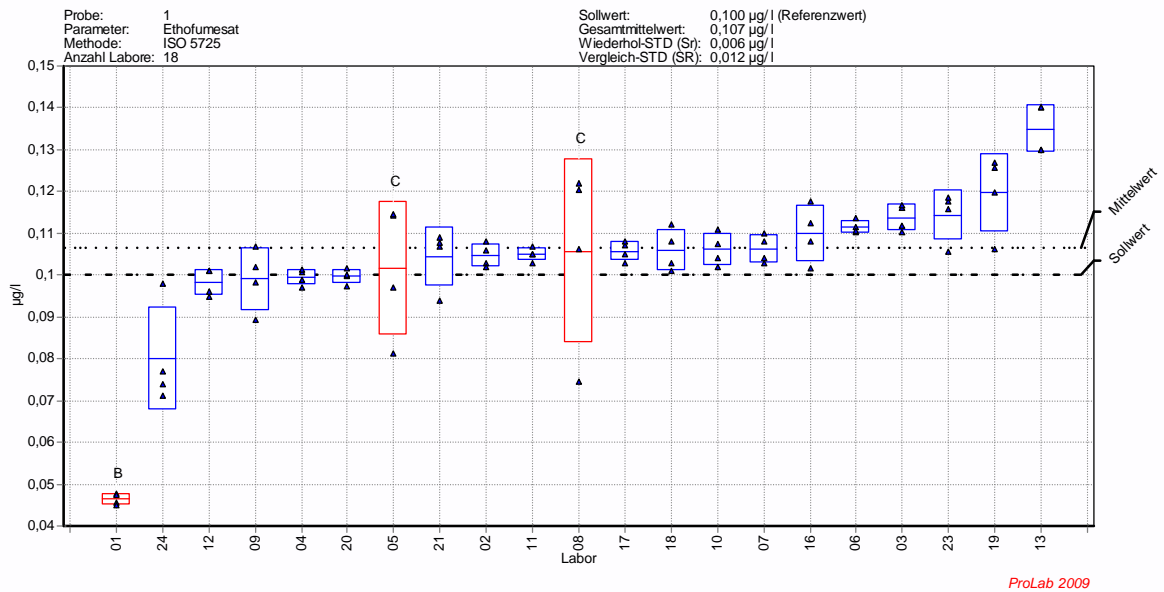


Bild A2-1.16 – Ethofumesat

Probe 1: Trinkwasser

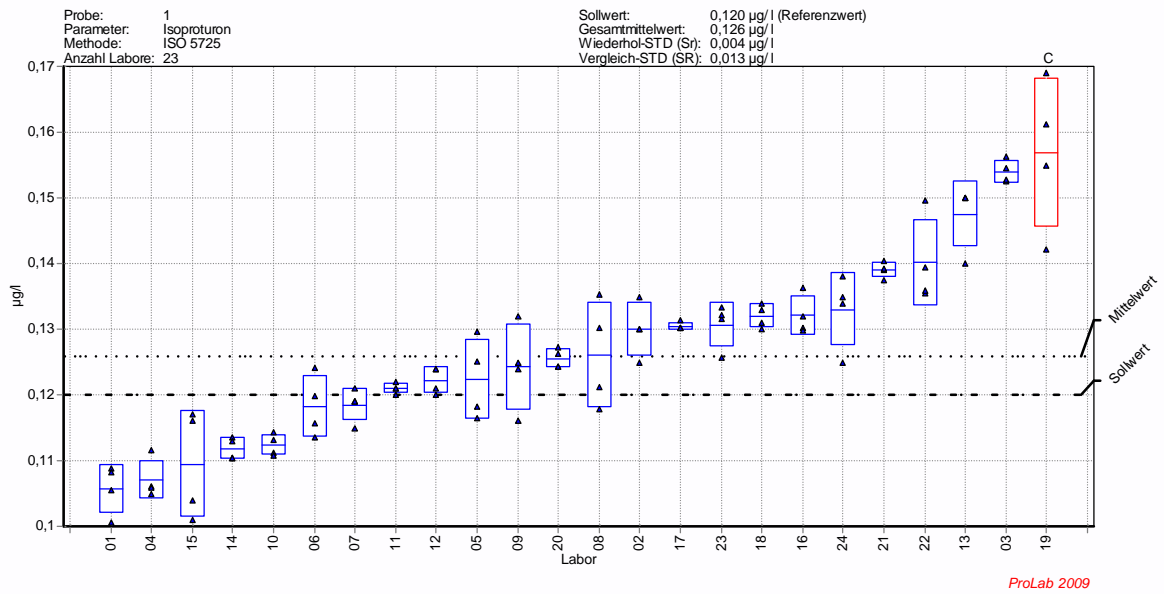


Bild A2-1.17 – Isoproturon

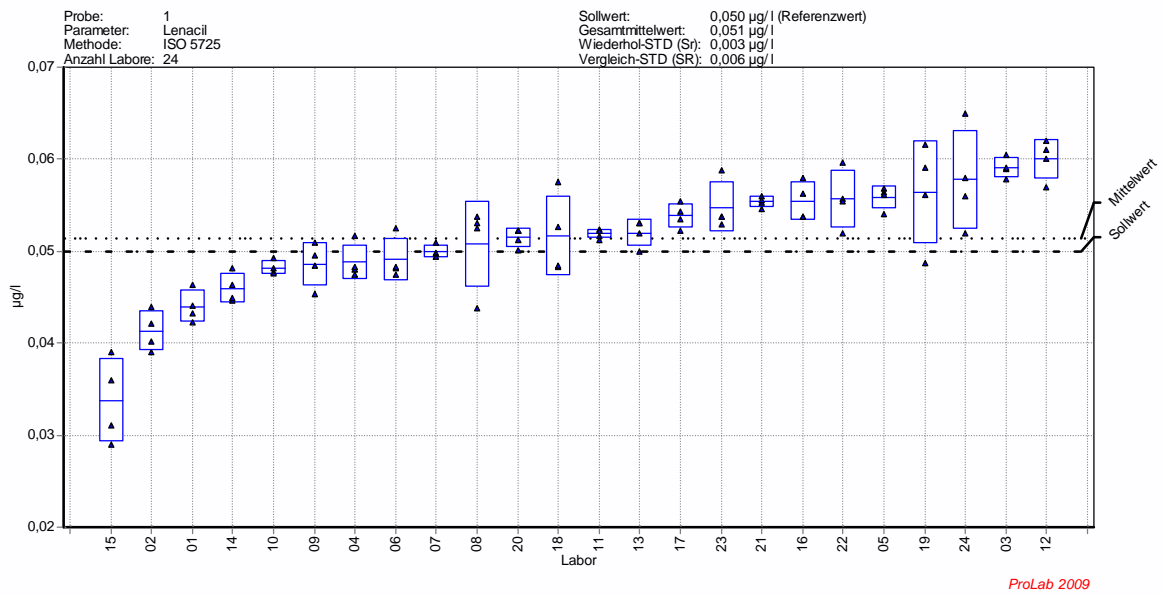


Bild A2-1.18 – Lenacil

Probe 1: Trinkwasser

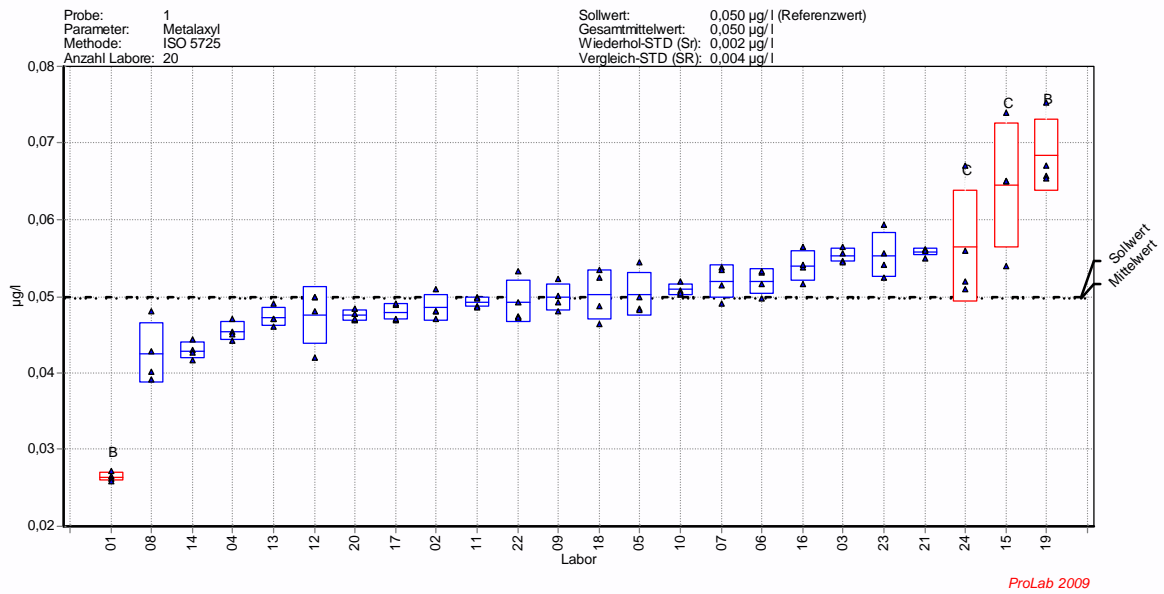


Bild A2-1.19 – Metalaxyl

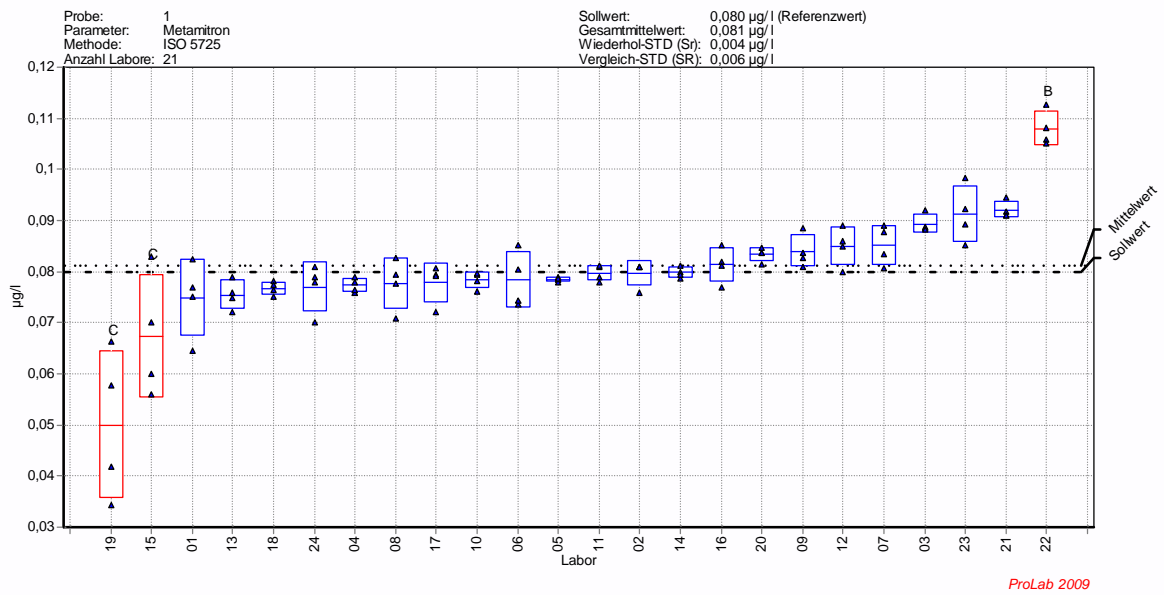


Bild A2-1.20 – Metamitron

Probe 1: Trinkwasser

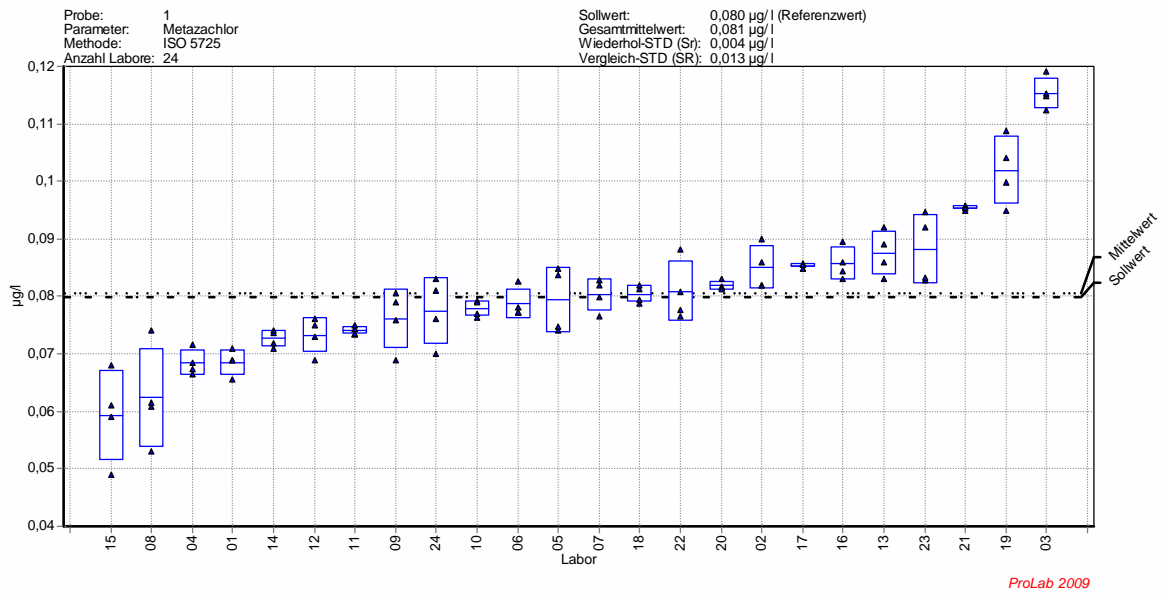


Bild A2-1.21 – Metazachlor

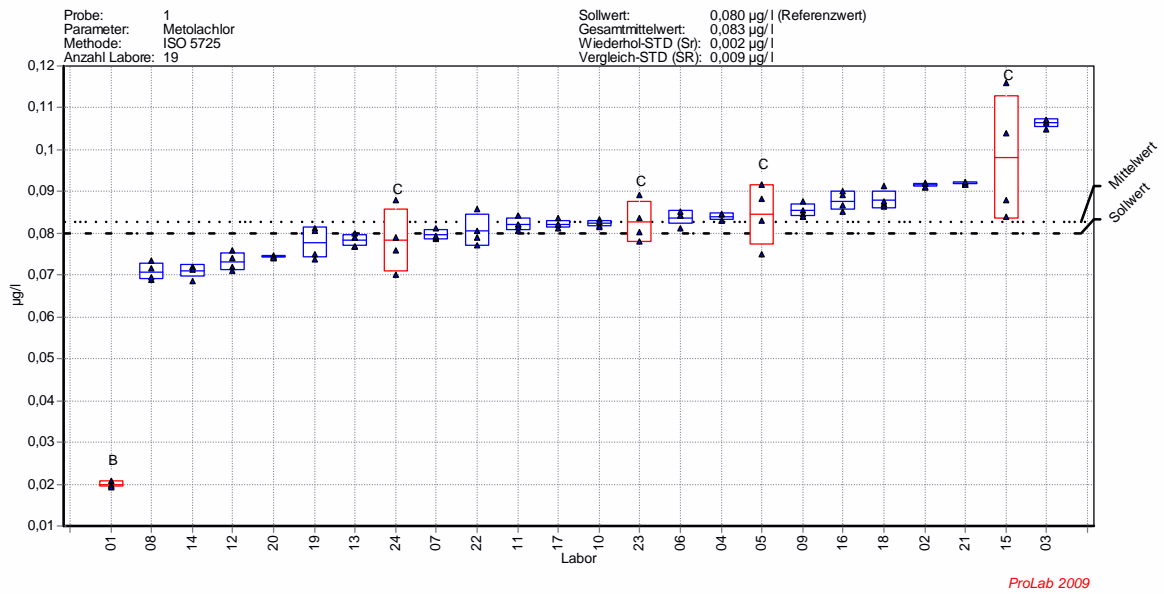


Bild A2-1.22 – Metolachlor

Probe 1: Trinkwasser

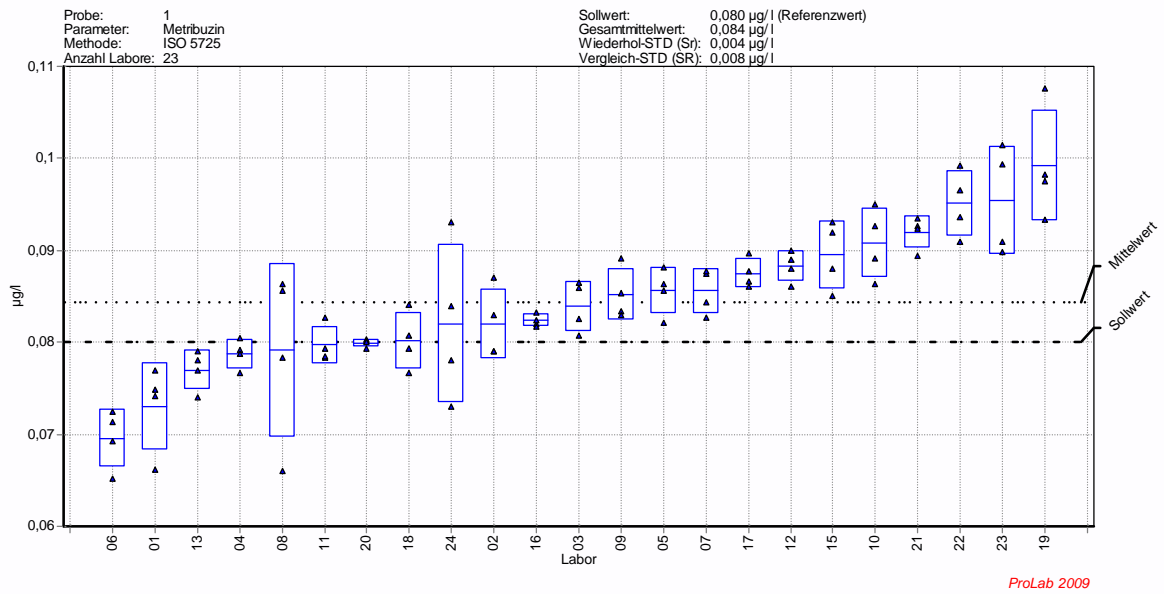


Bild A2-1.23 – Metribuzin

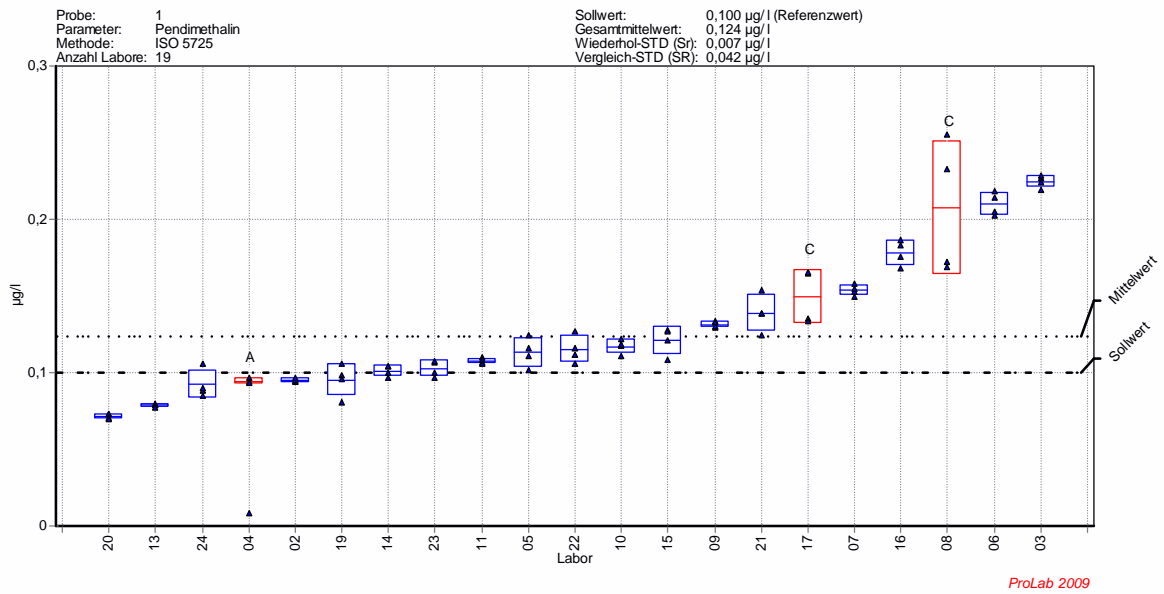


Bild A2-1.24 – Pendimethalin

Probe 1: Trinkwasser

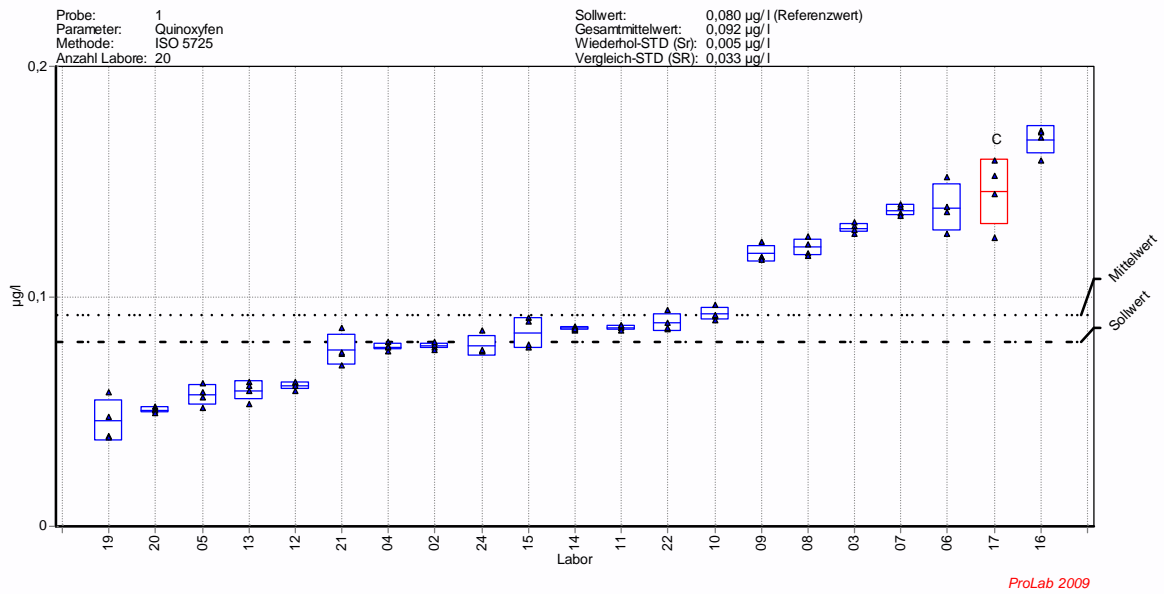


Bild A2-1.25 – Quinoxifen

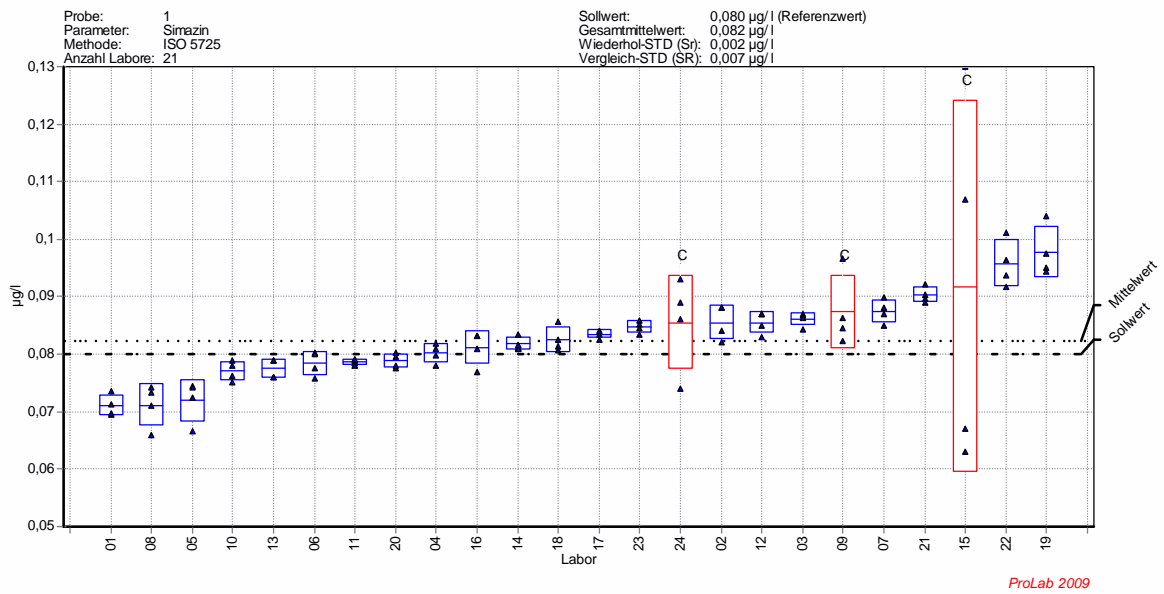


Bild A2-1.26 – Simazin

Probe 1: Trinkwasser

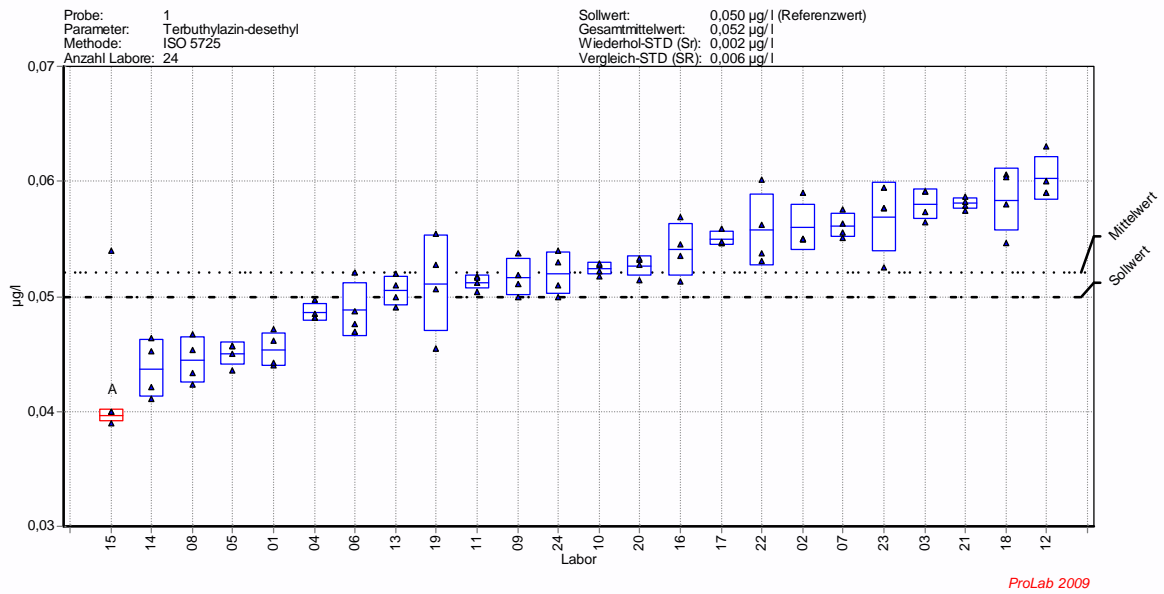


Bild A2-1.27 – Terbutylazin-desethyl

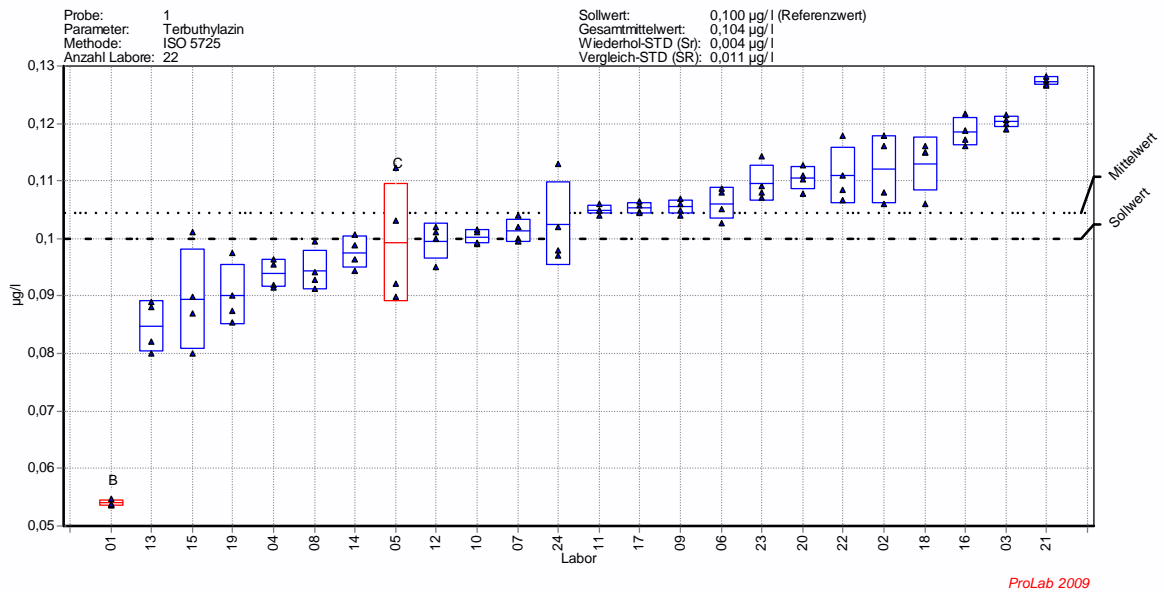


Bild A2-1.28 – Terbutylazin

Probe 2: Grundwasser

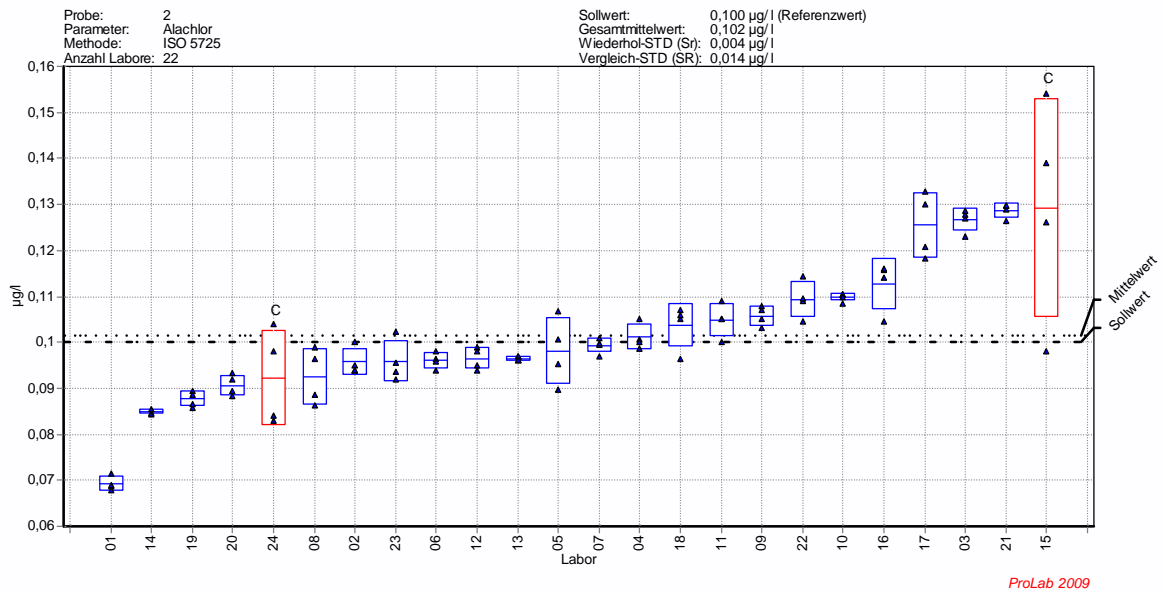


Bild A2-2.1 – Alachlor

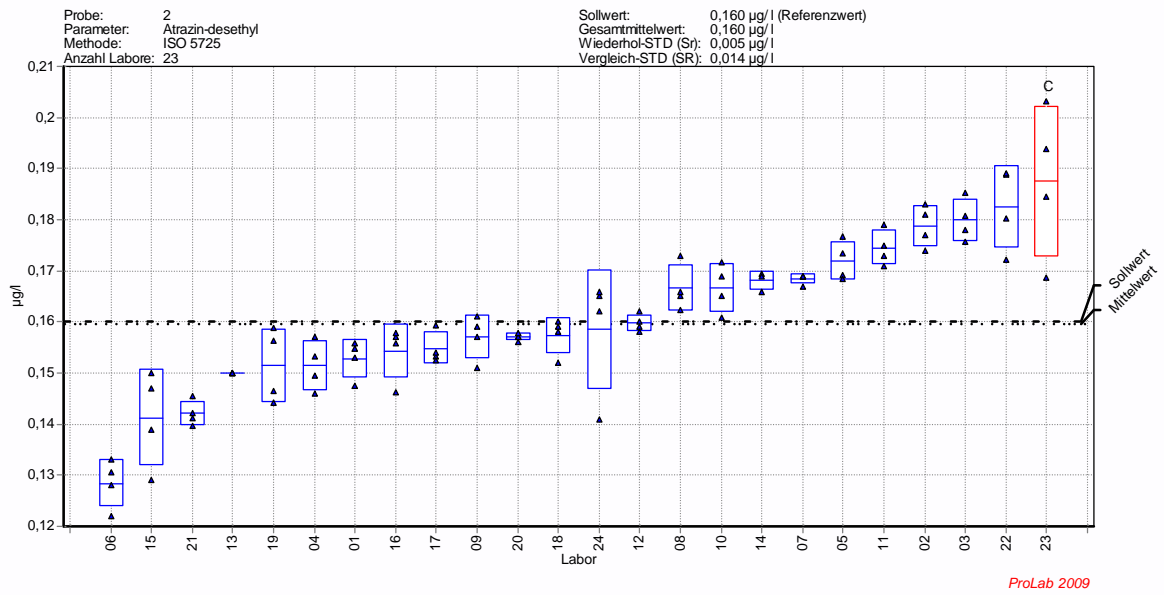
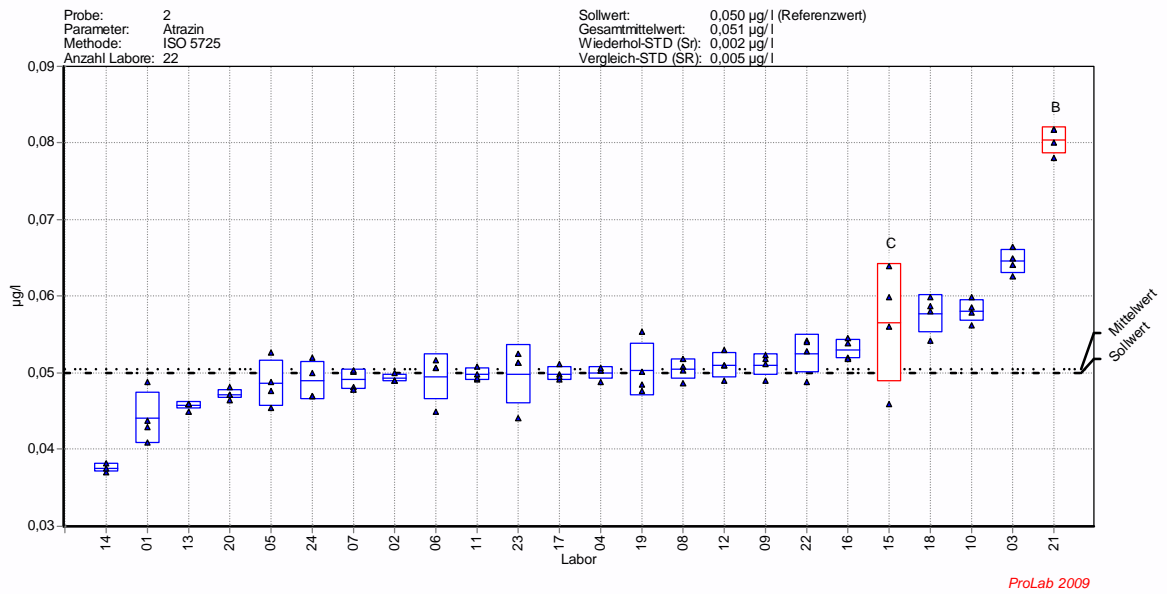
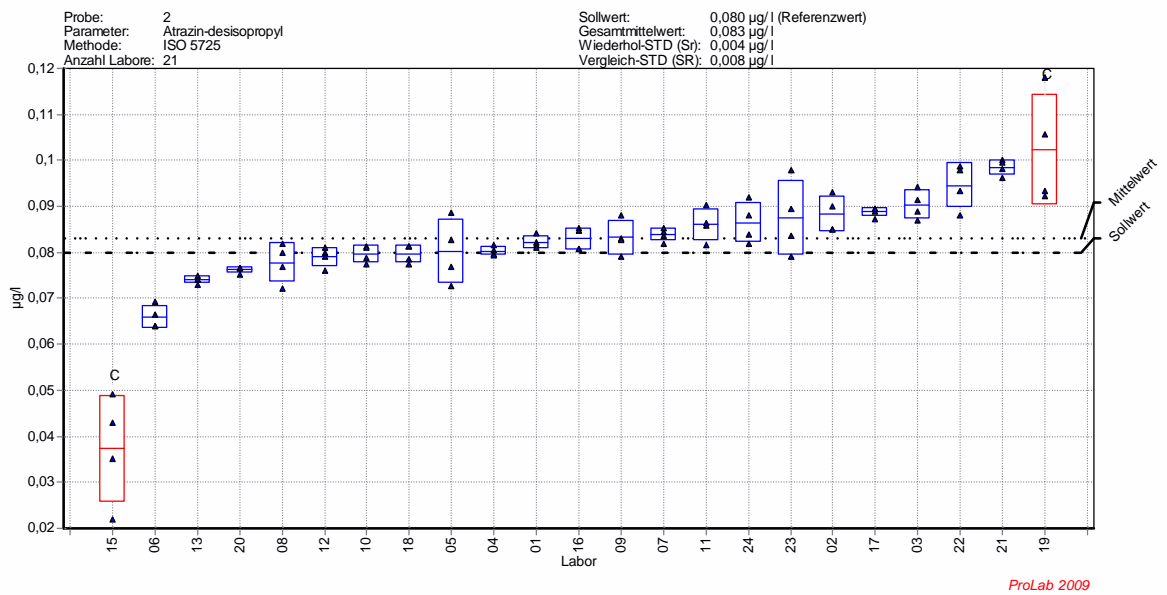


Bild A2-2.2 – Atrazin-desethyl

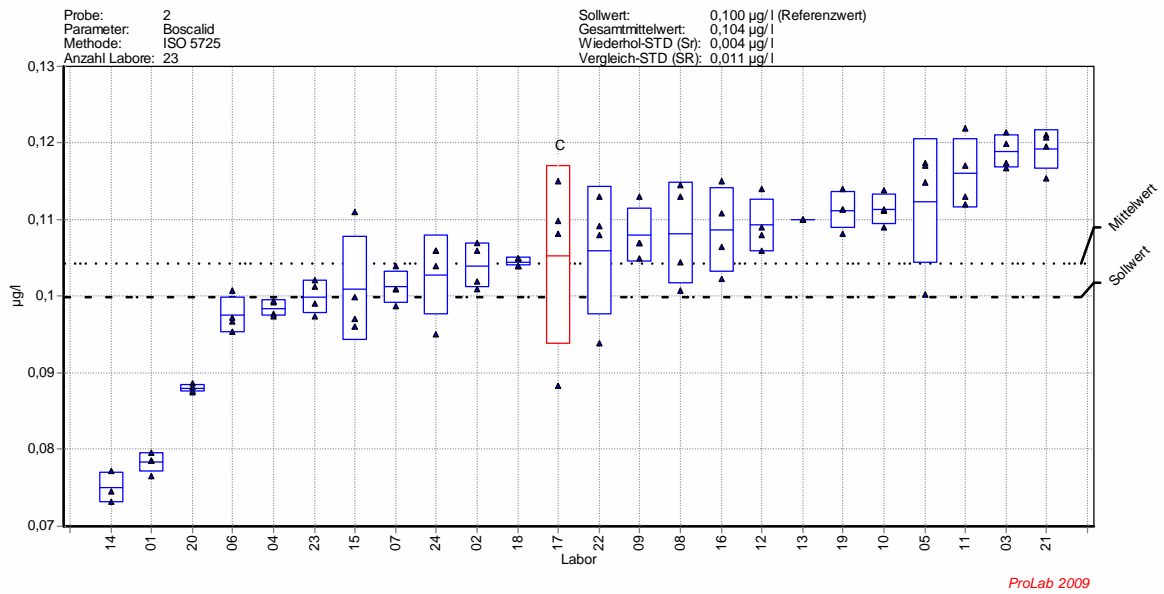




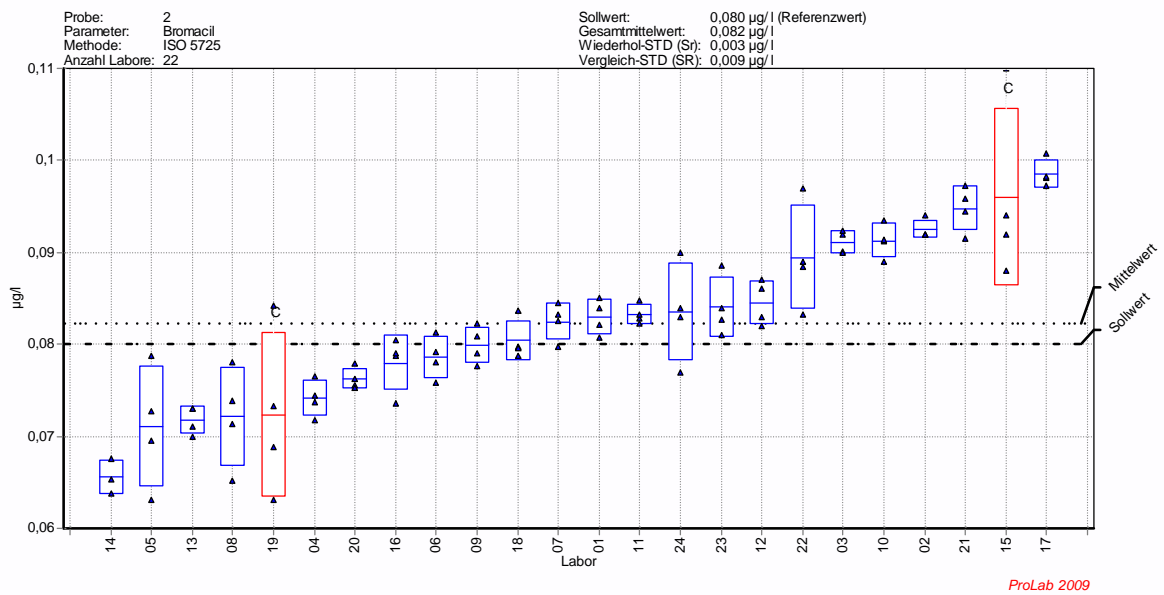
**Bild A2-2.3 – Atrazin**



**Bild A2-2.4 – Atrazin-desisopropyl**



**Bild A2-2.5 – Boscalid**



**Bild A2-2.6 – Bromacil**

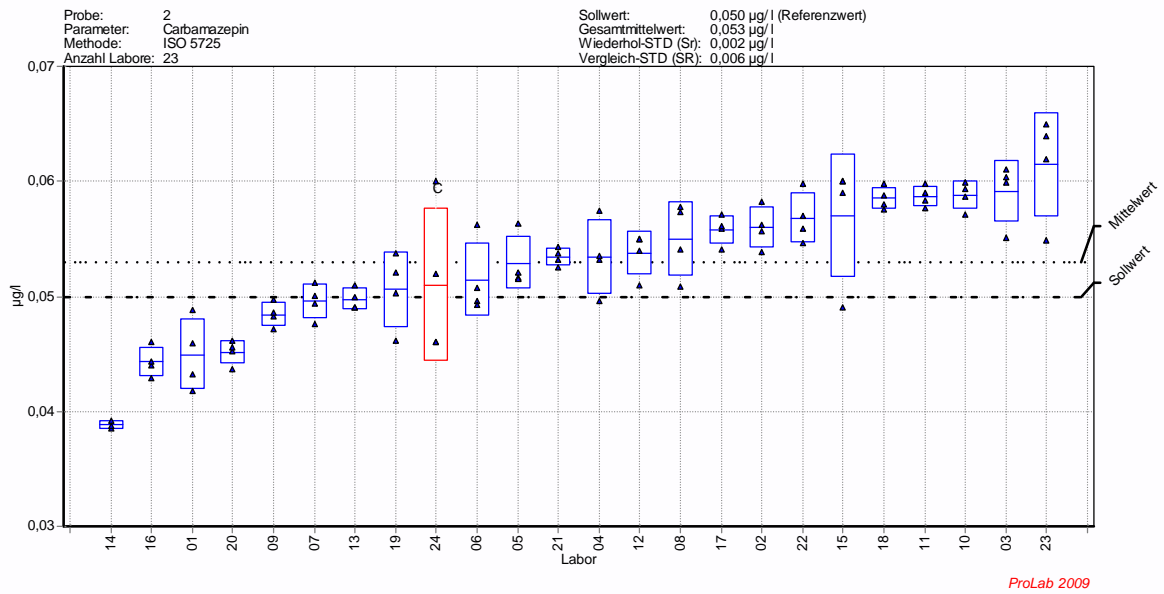


Bild A2-2.7 – Carbamazepin

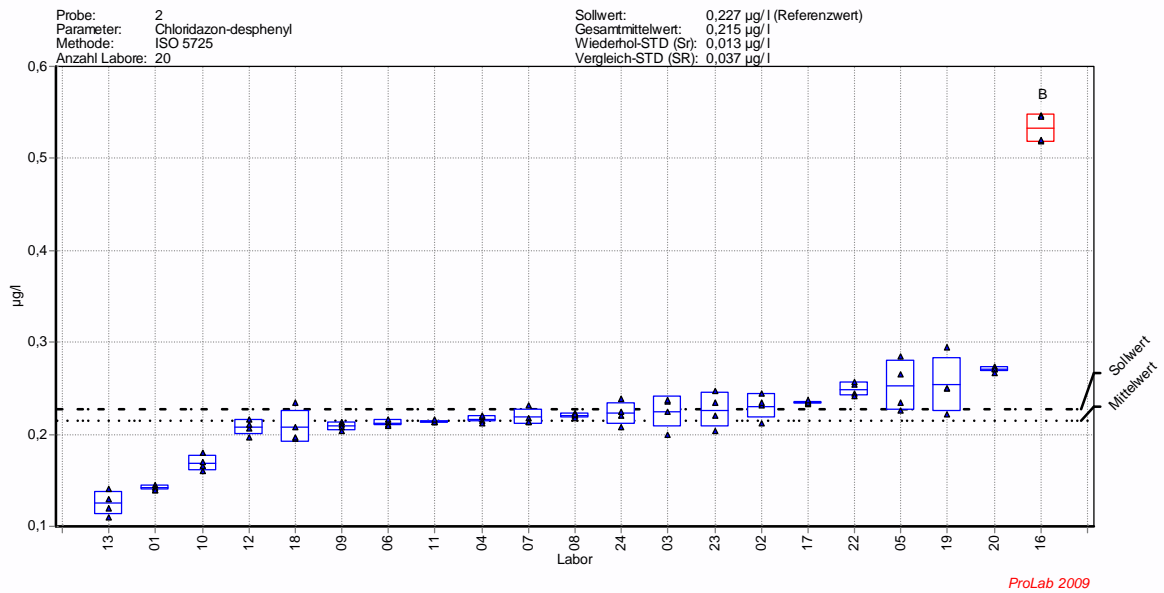


Bild A2-2.8 – Chloridazon-desphenyl

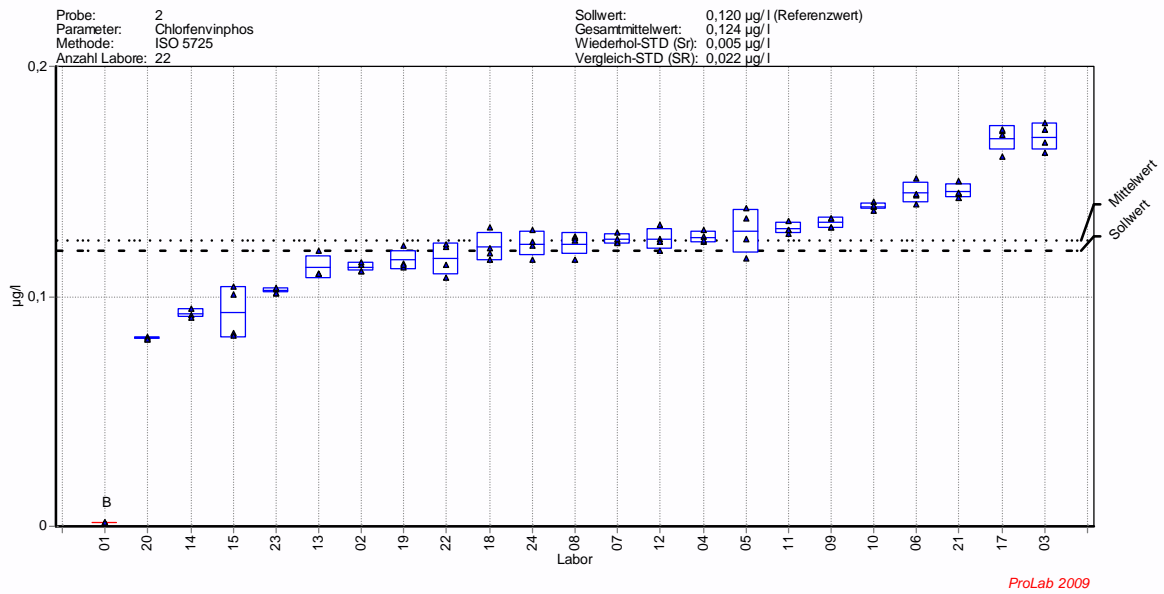


Bild A2-2.9 – Chlorfenvinphos

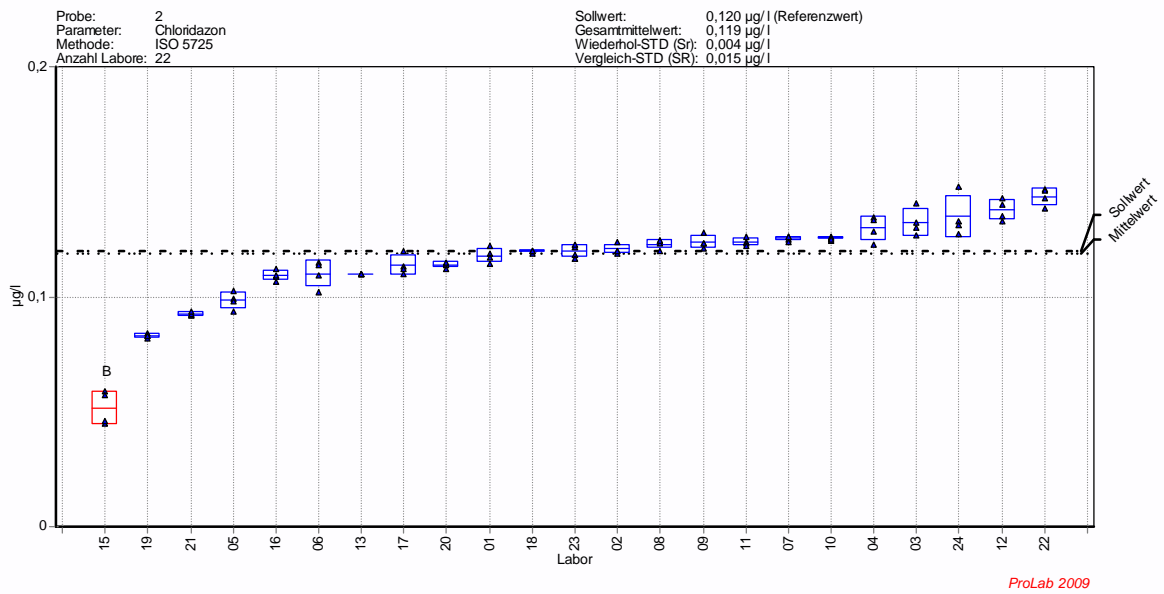


Bild A2-2.10 – Chloridazon

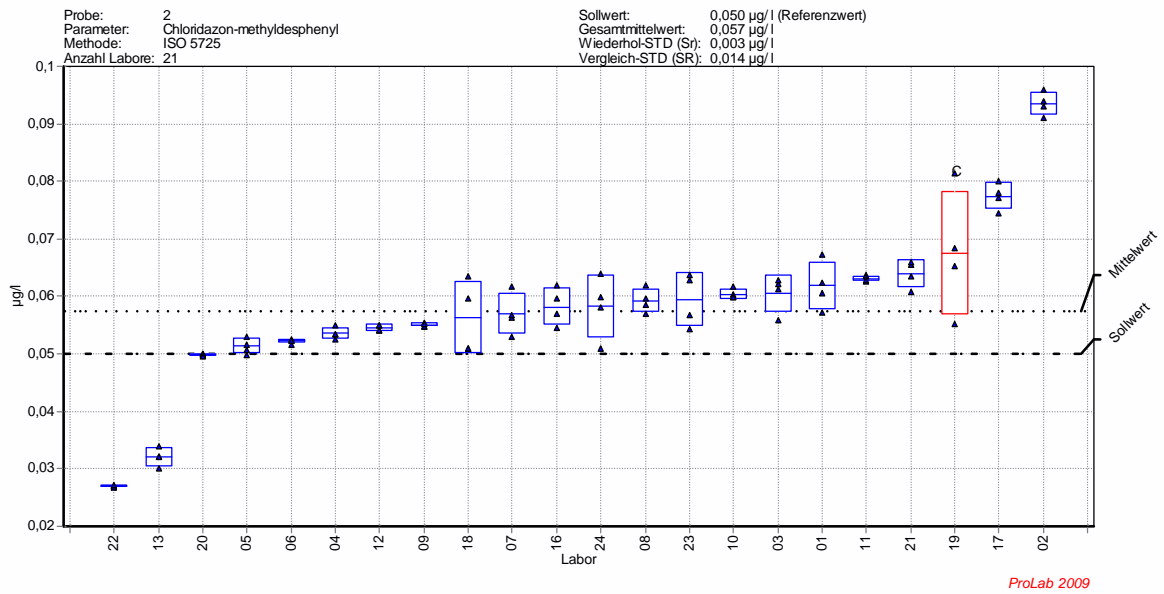


Bild A2-2.11 – Chloridazon-methyl-desphenyl

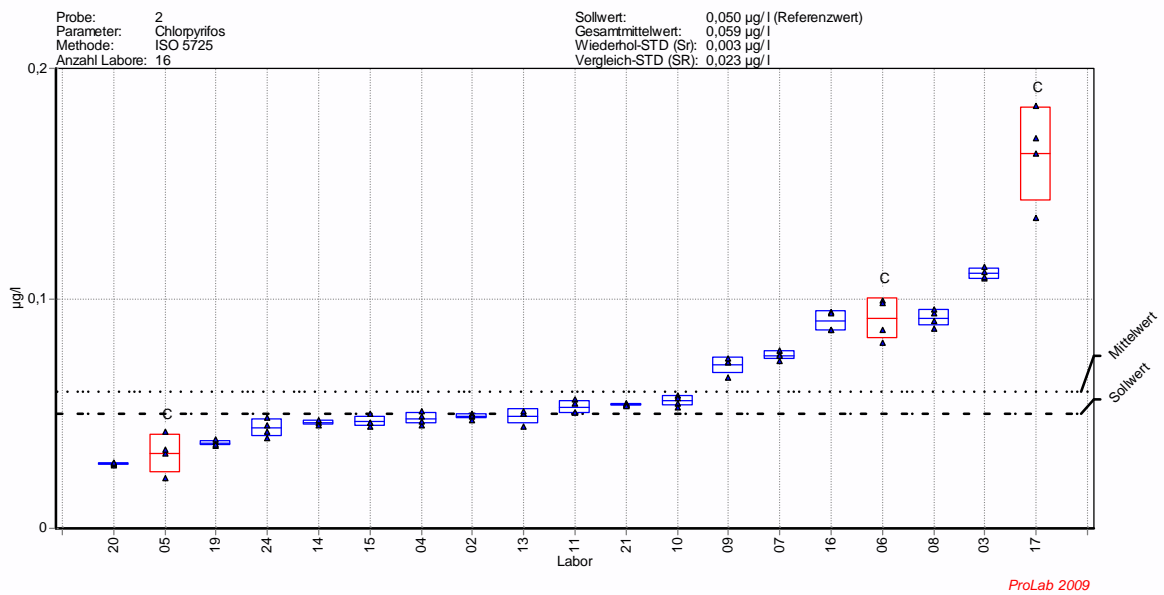


Bild A2-2.12 – Chlorpyrifos

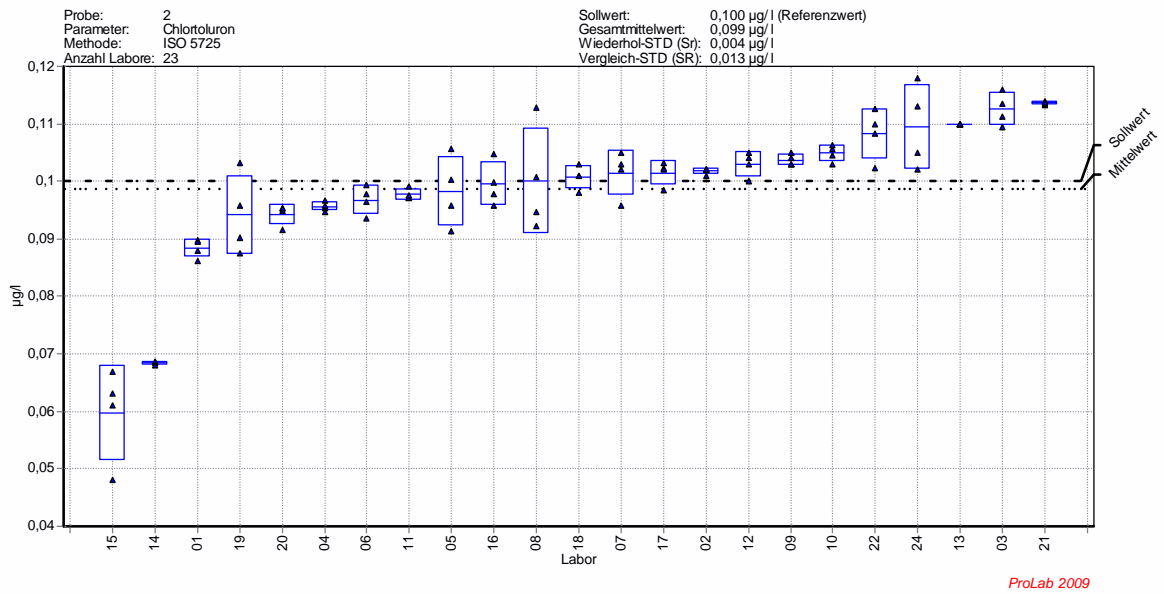


Bild A2-2.13 – Chlortoluron

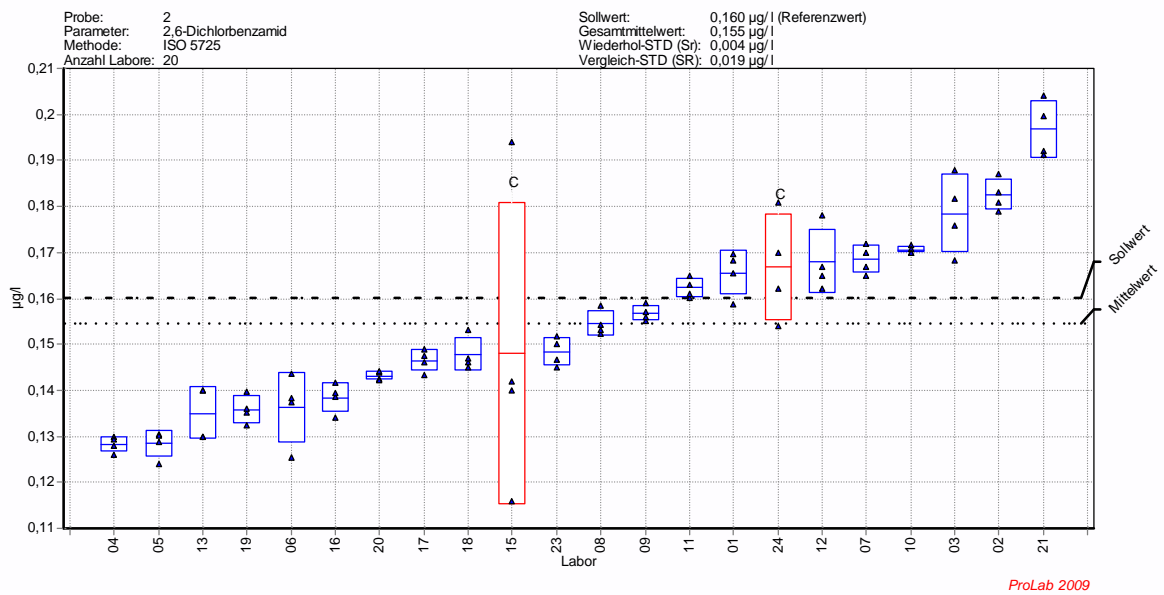


Bild A2-2.14 – 2,6-Dichlorbenzamid

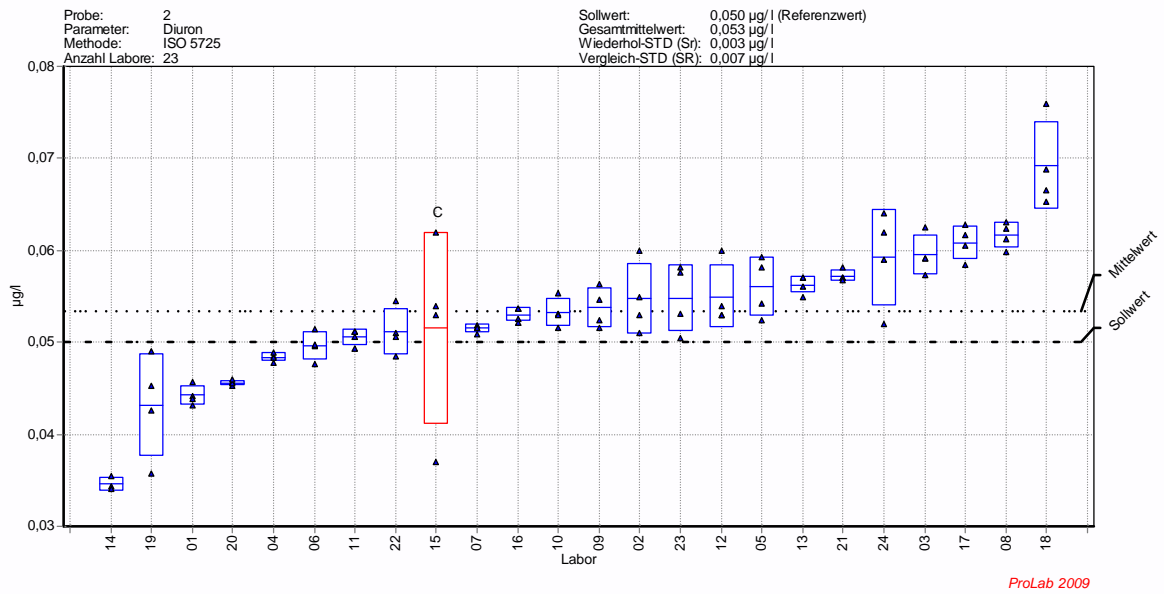


Bild A2-2.15 – Diuron

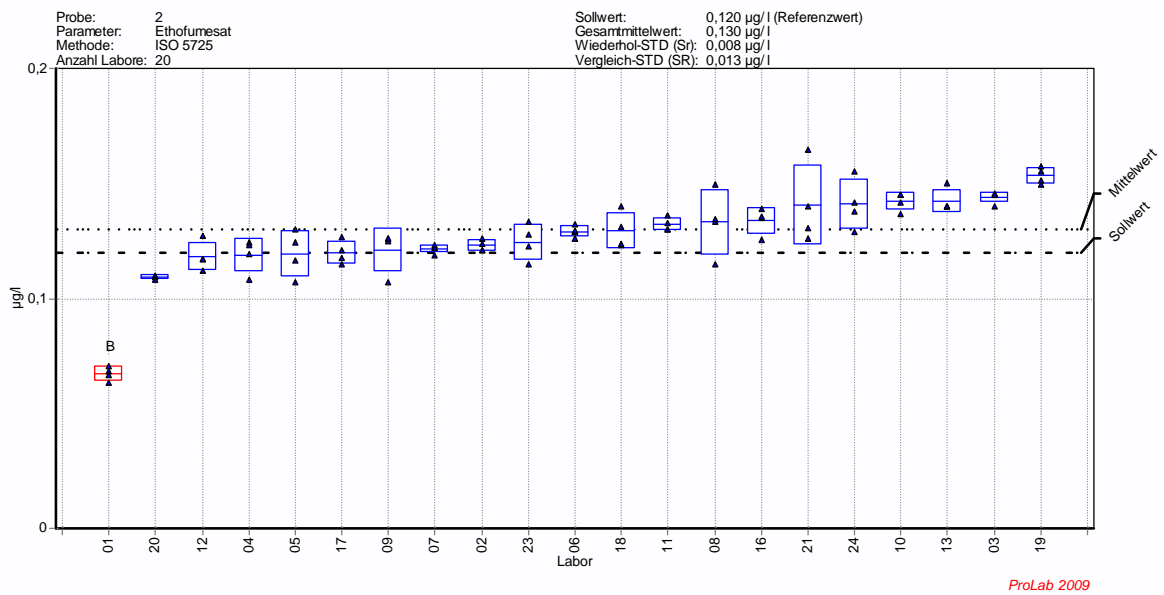


Bild A2-2.16 – Ethofumesat

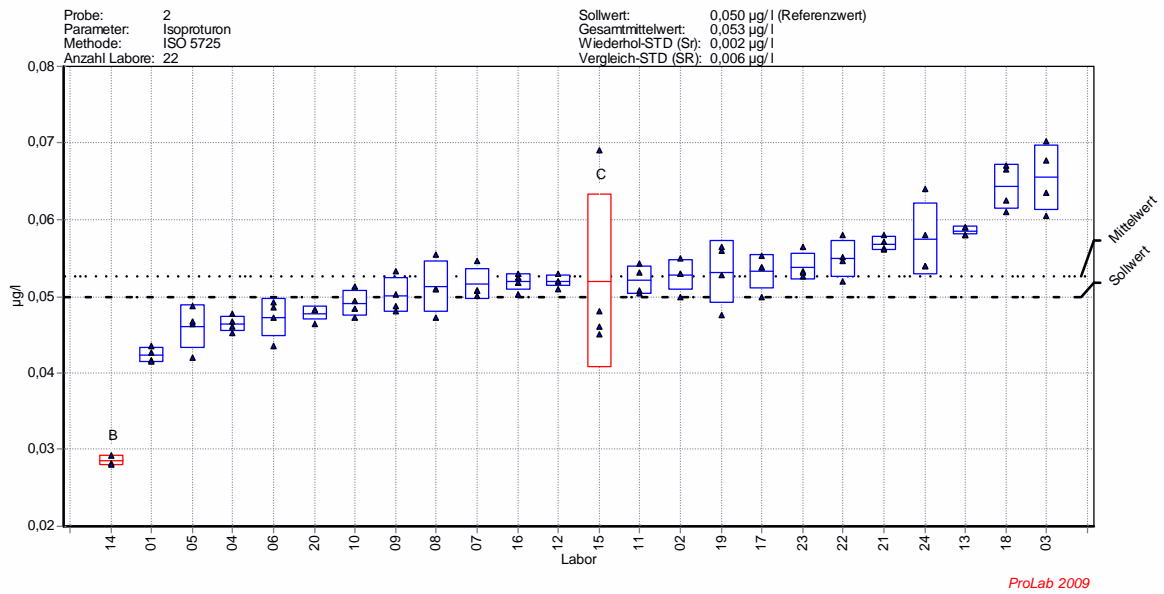


Bild A2-2.17 – Isoproturon

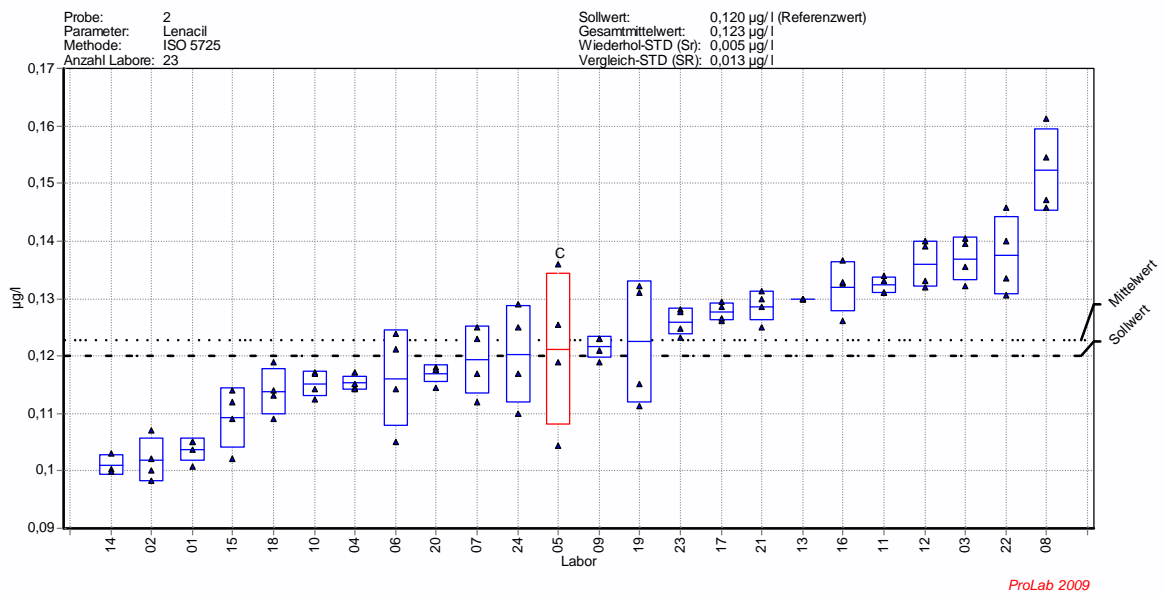


Bild A2-2.18 – Lenacil



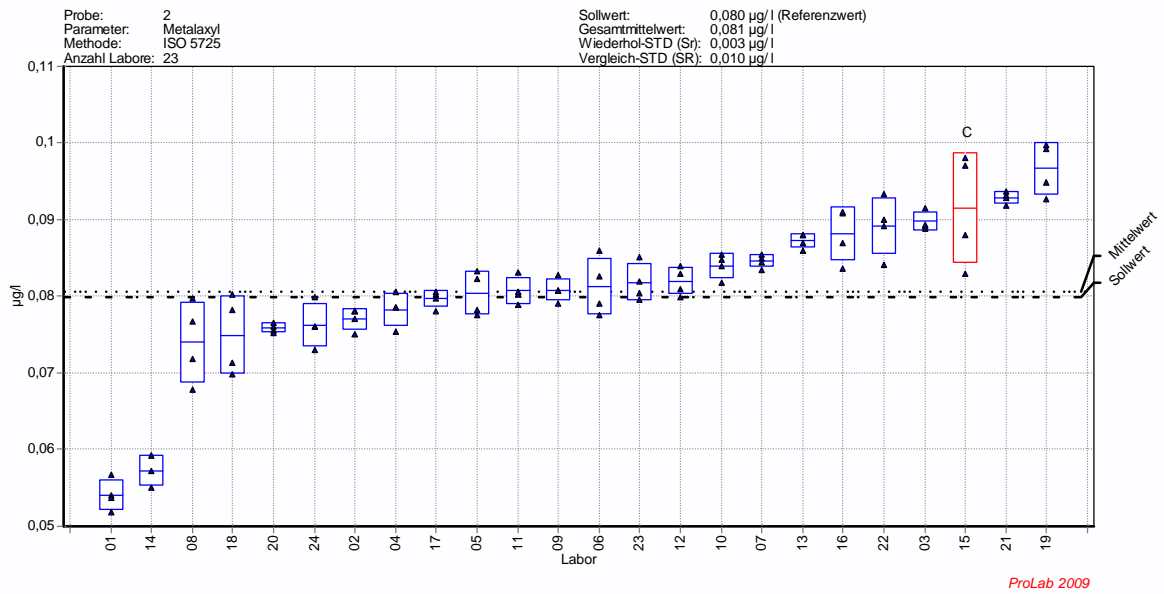


Bild A2-2.19 – Metalaxyl

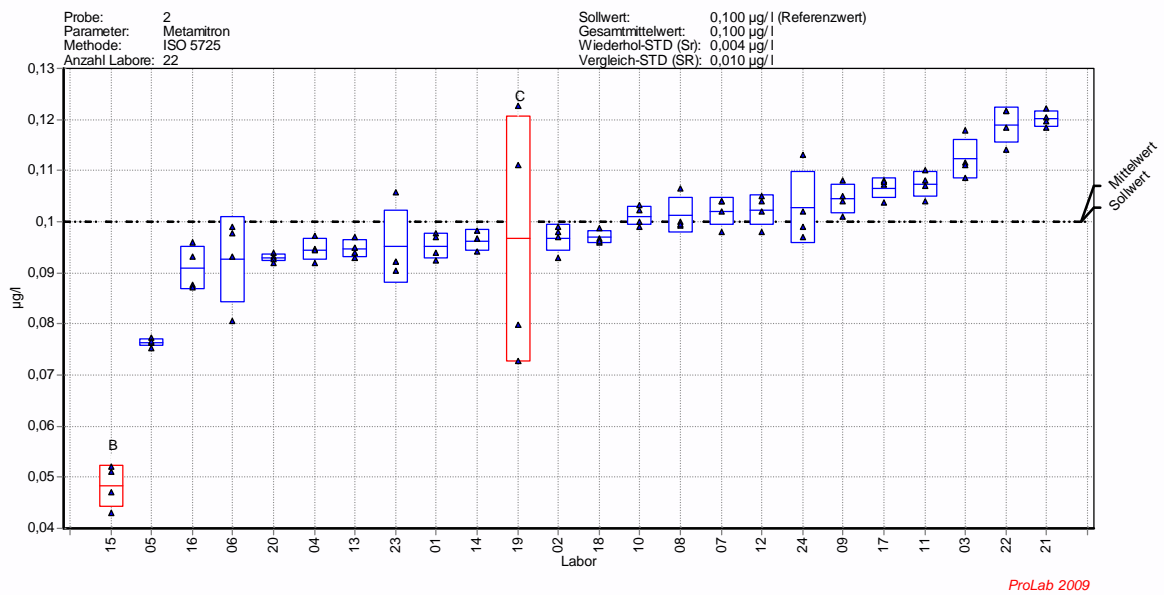
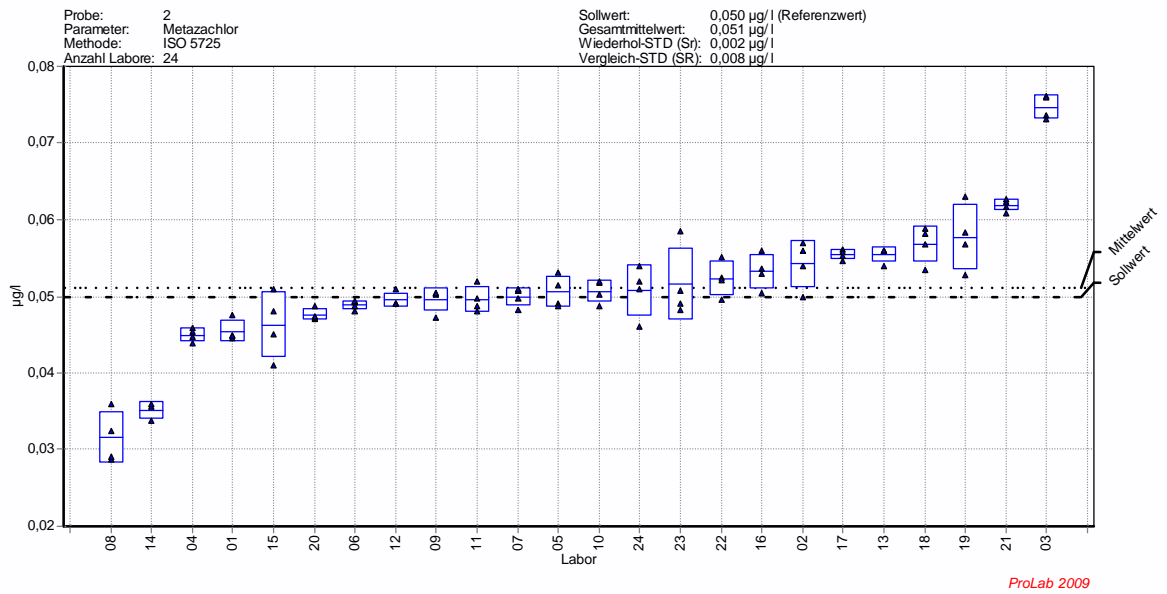
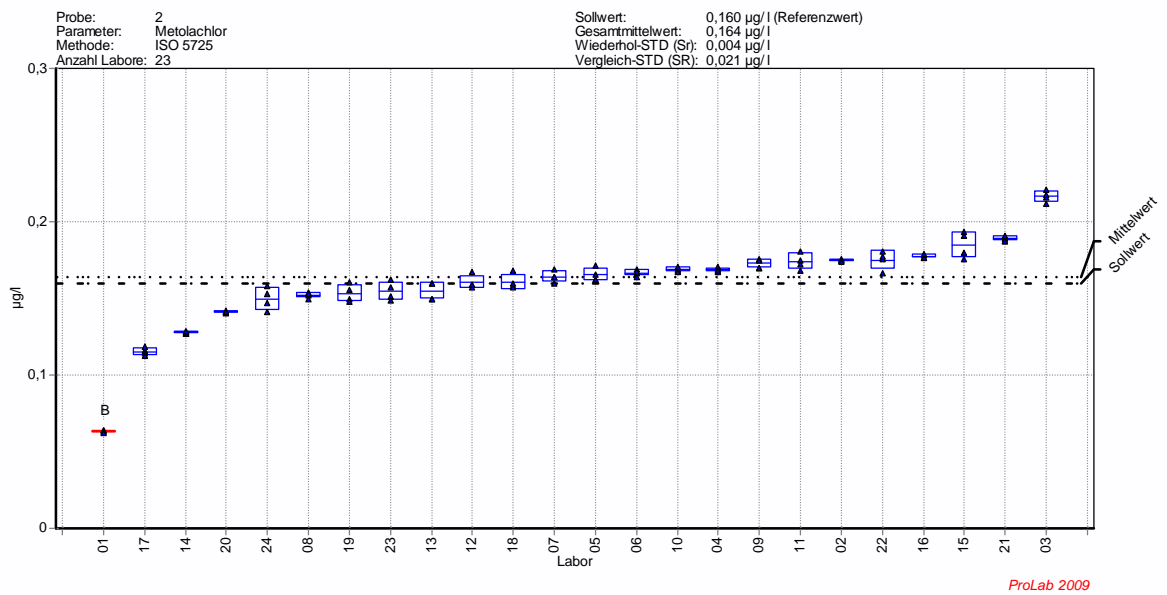


Bild A2-2.20 – Metamitron



**Bild A2-2.21 – Metazachlor**



**Bild A2-2.22 – Metolachlor**

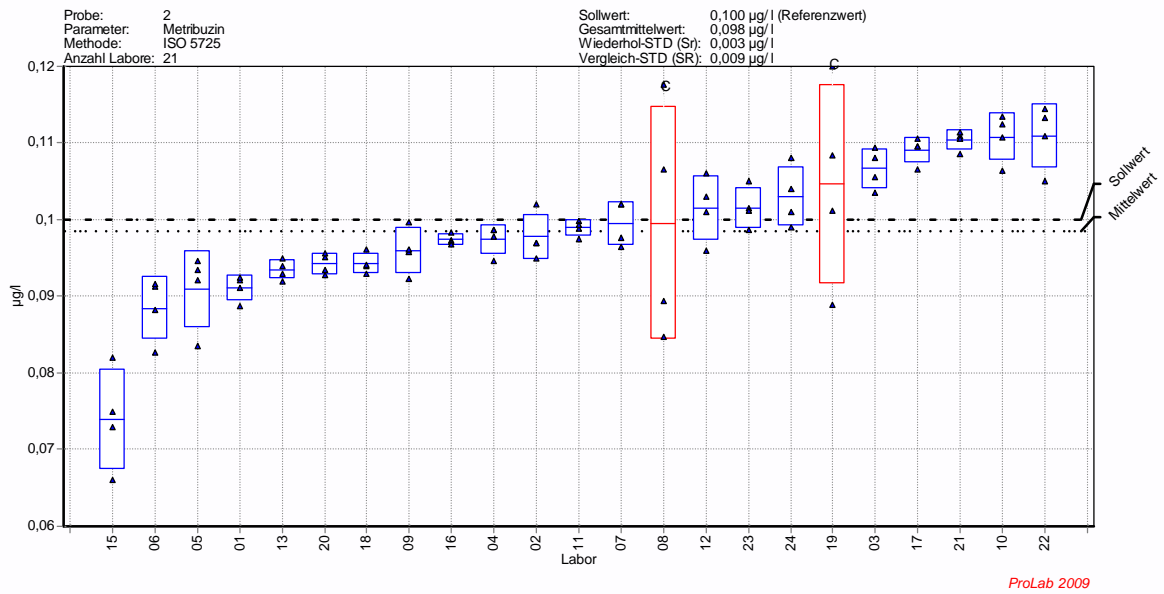


Bild A2-2.23 – Metribuzin

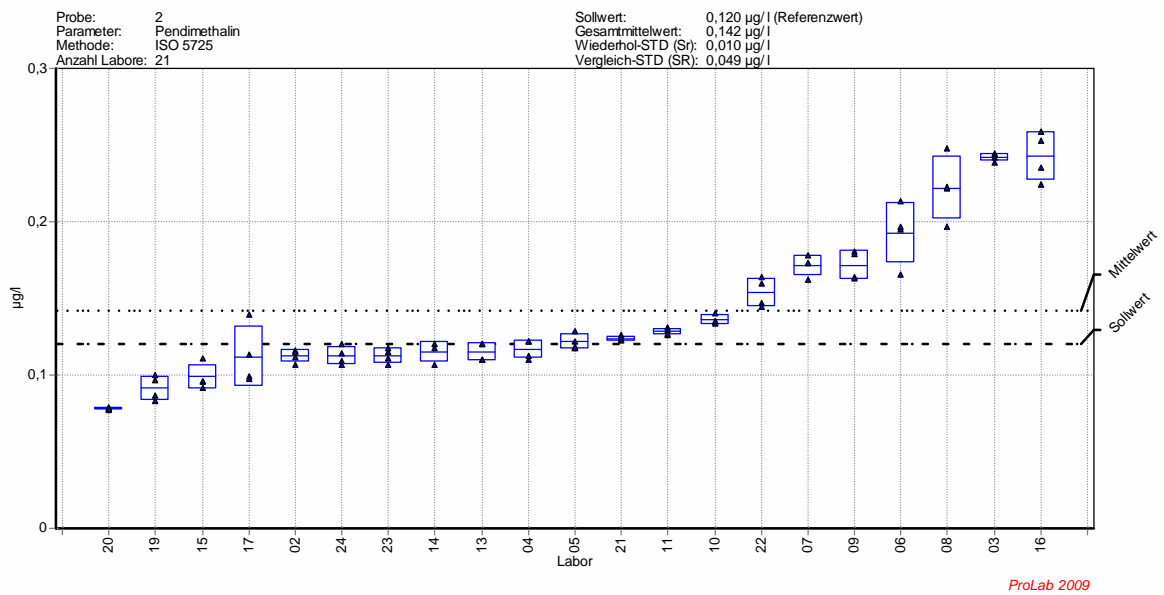


Bild A2-2.24 – Pendimethalin

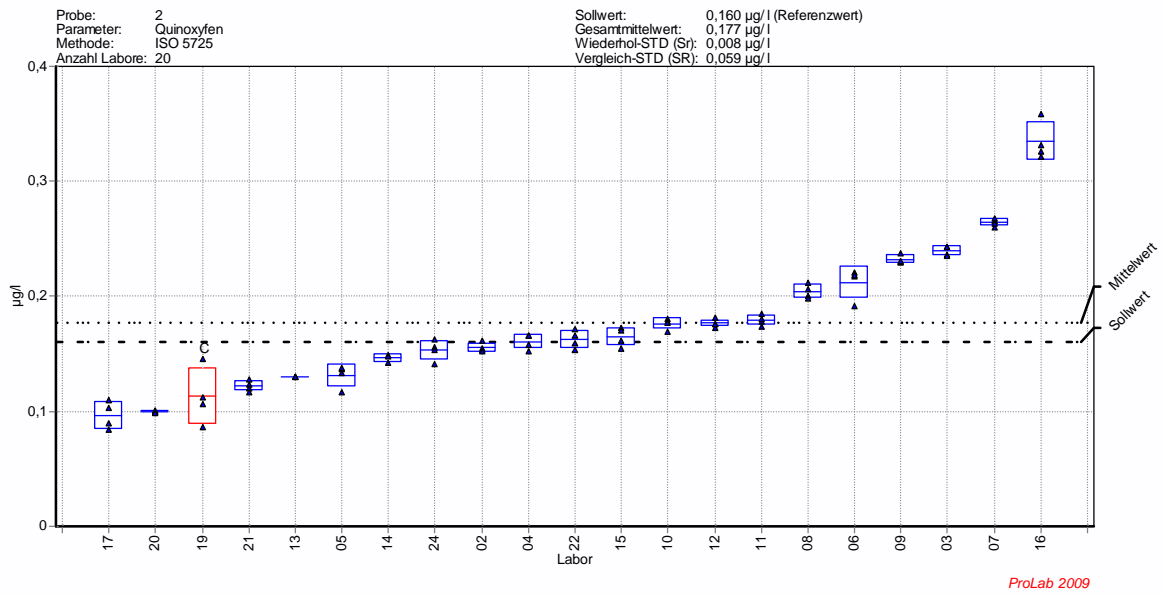


Bild A2-2.25 – Quinoxifen

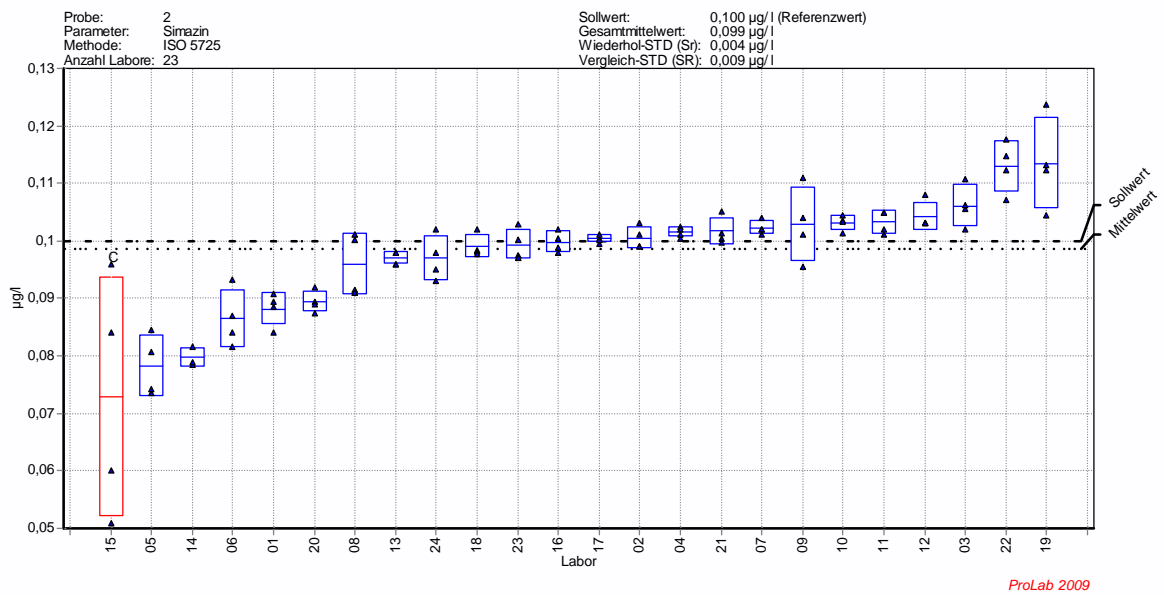


Bild A2-2.26 – Simazin

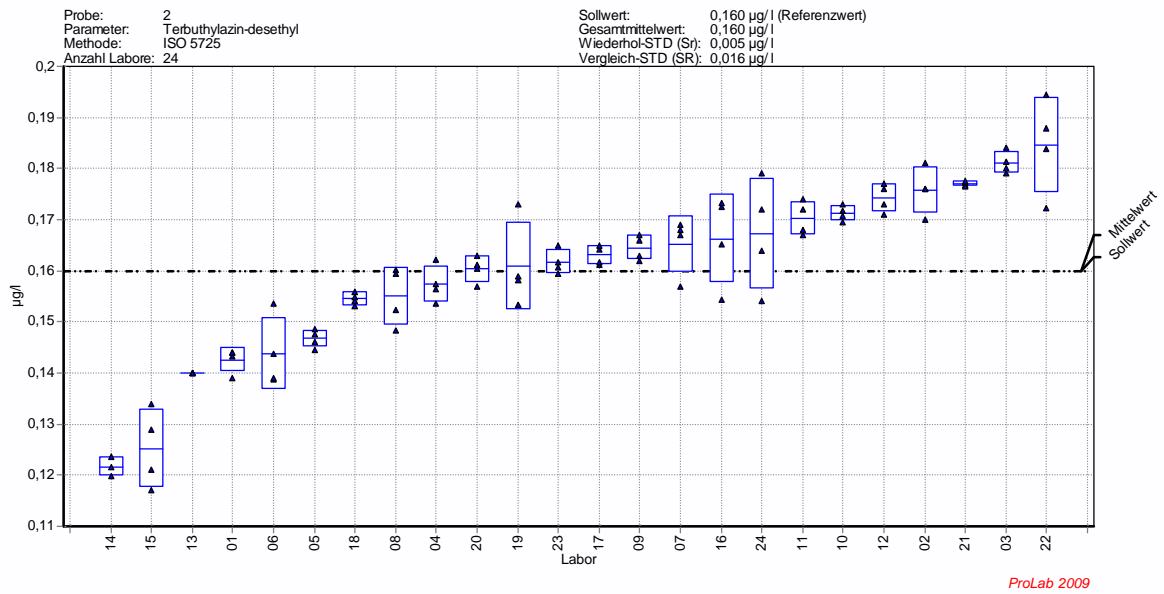


Bild A2-2.27 – Terbutylazin-desethyl

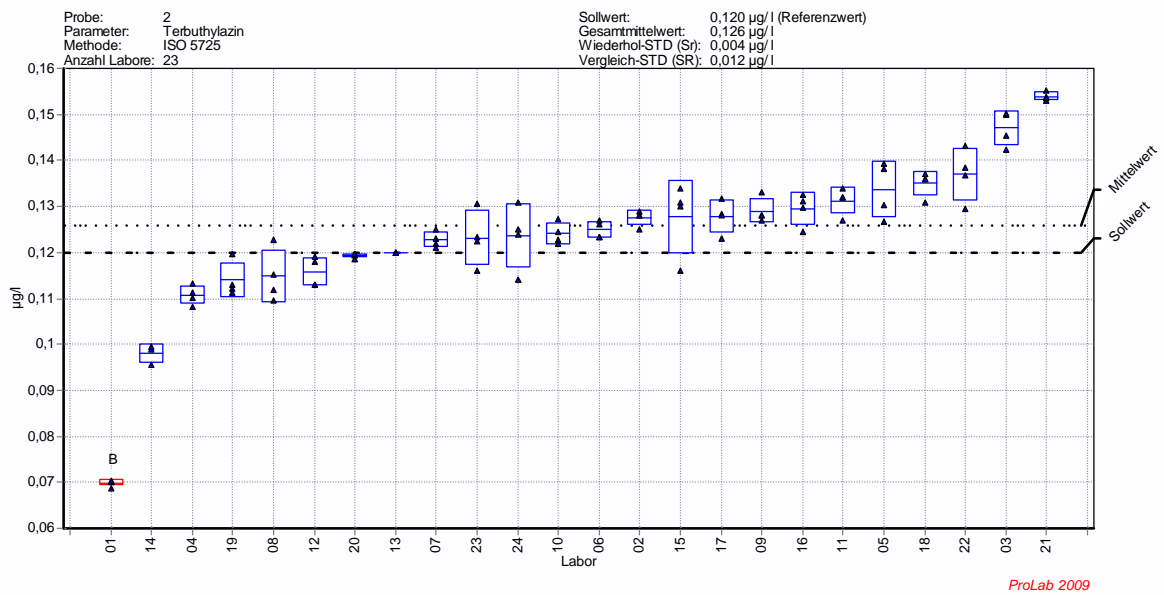


Bild A2-2.28 – Terbutylazin

Probe 3: Oberflächenwasser

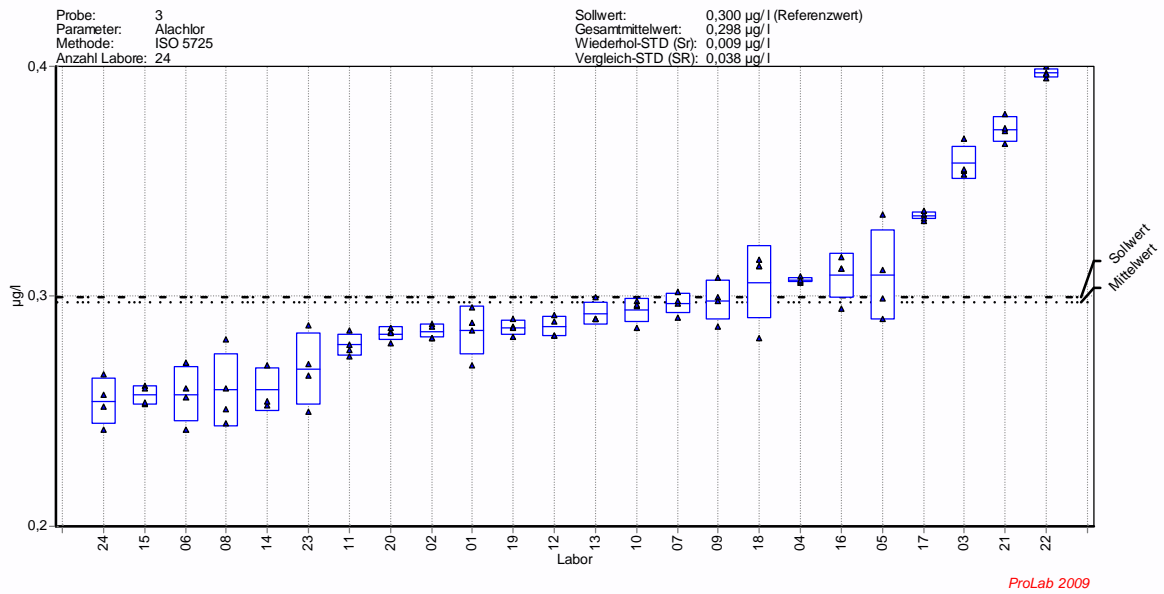


Bild A2-3.1 – Alachlor

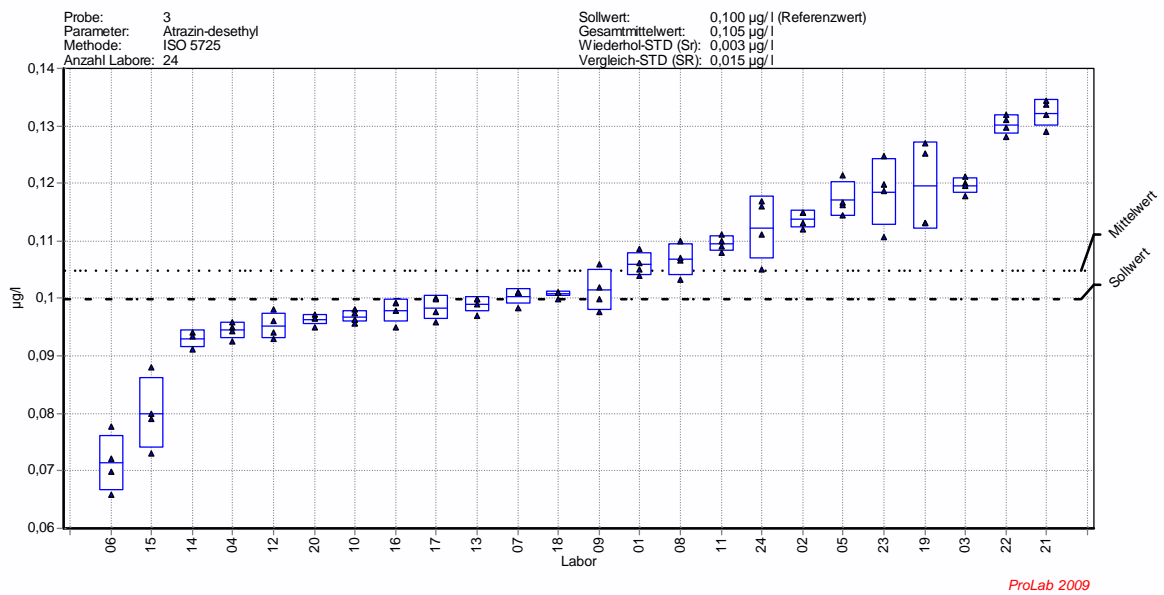
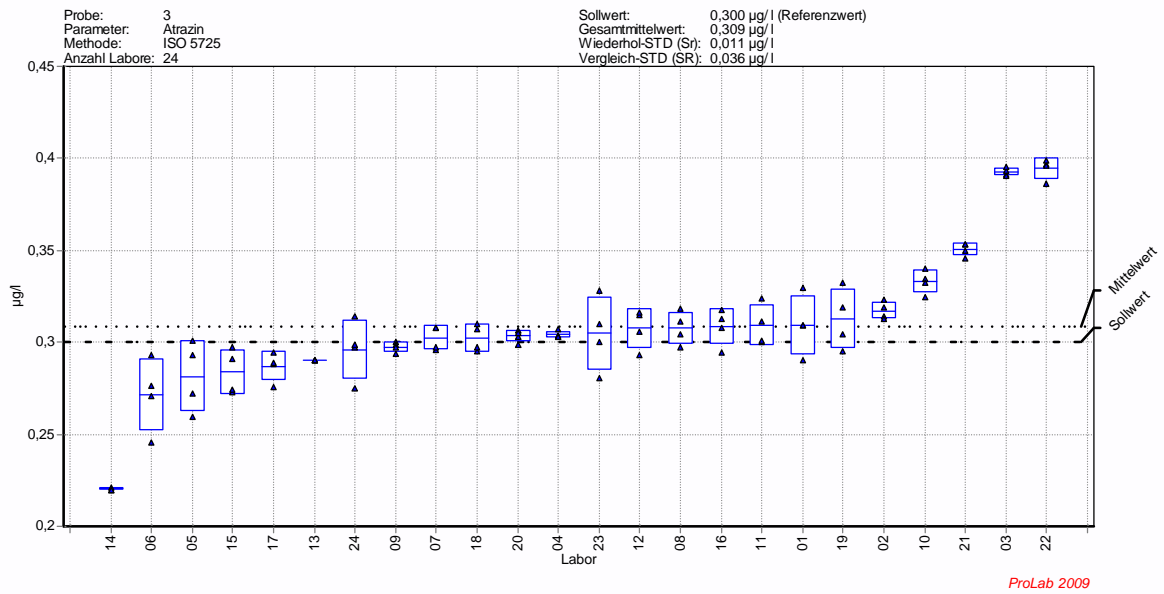
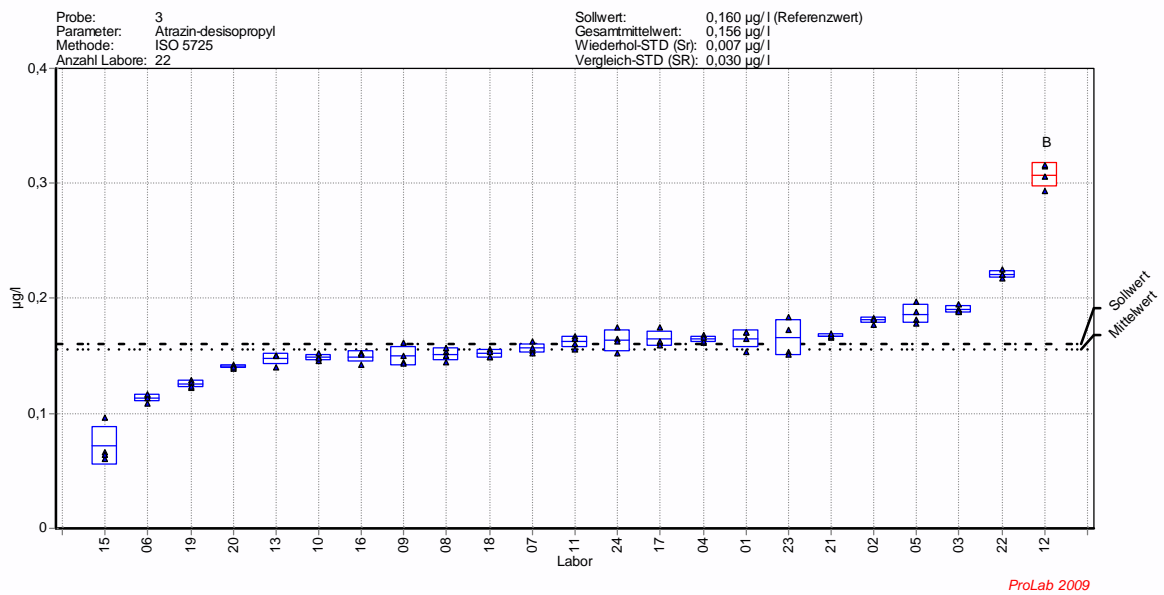


Bild A2-3.2 – Atrazin-desethyl

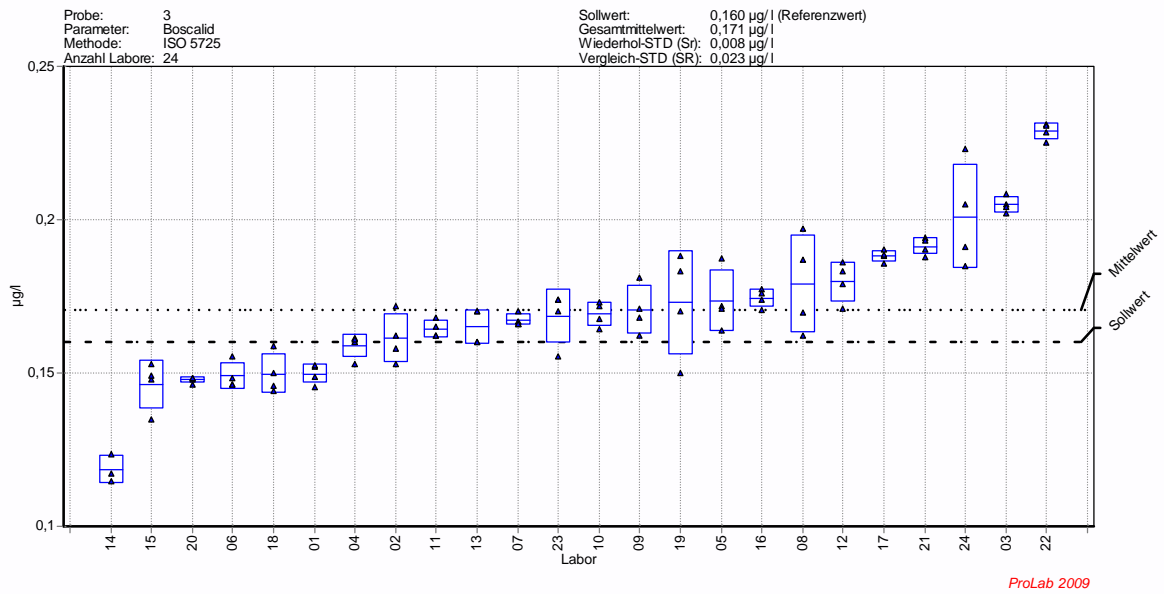
Probe 3: Oberflächenwasser



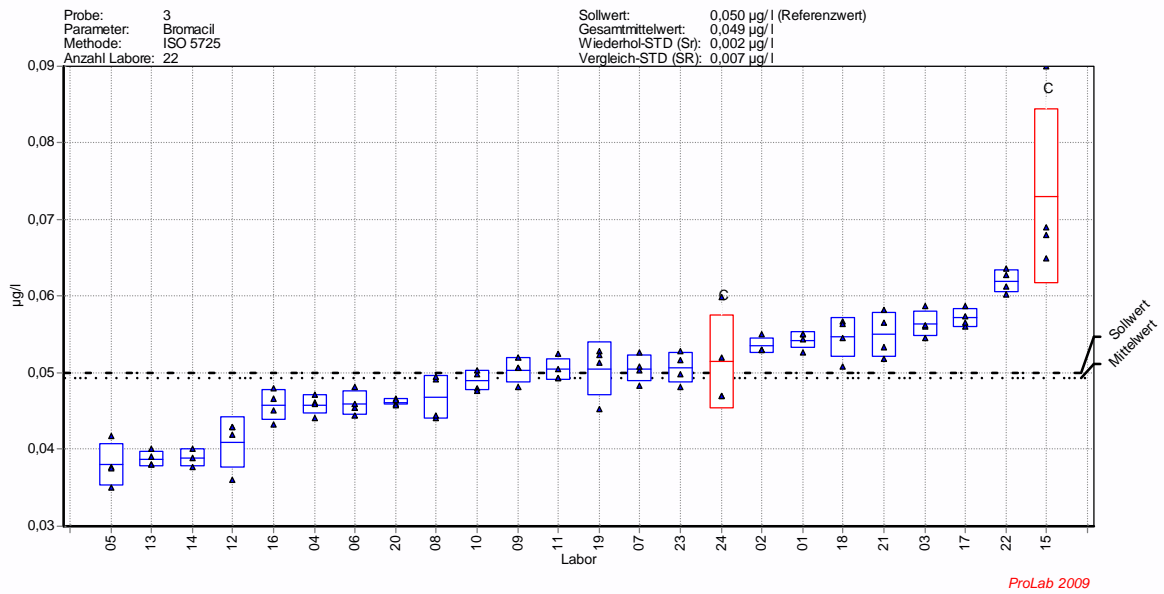
**Bild A2-3.3 – Atrazin**



**Bild A2-3.4 – Atrazin-desisopropyl**



**Bild A2-3.5 – Boscalid**



**Bild A2-3.6 – Bromacil**

Probe 3: Oberflächenwasser



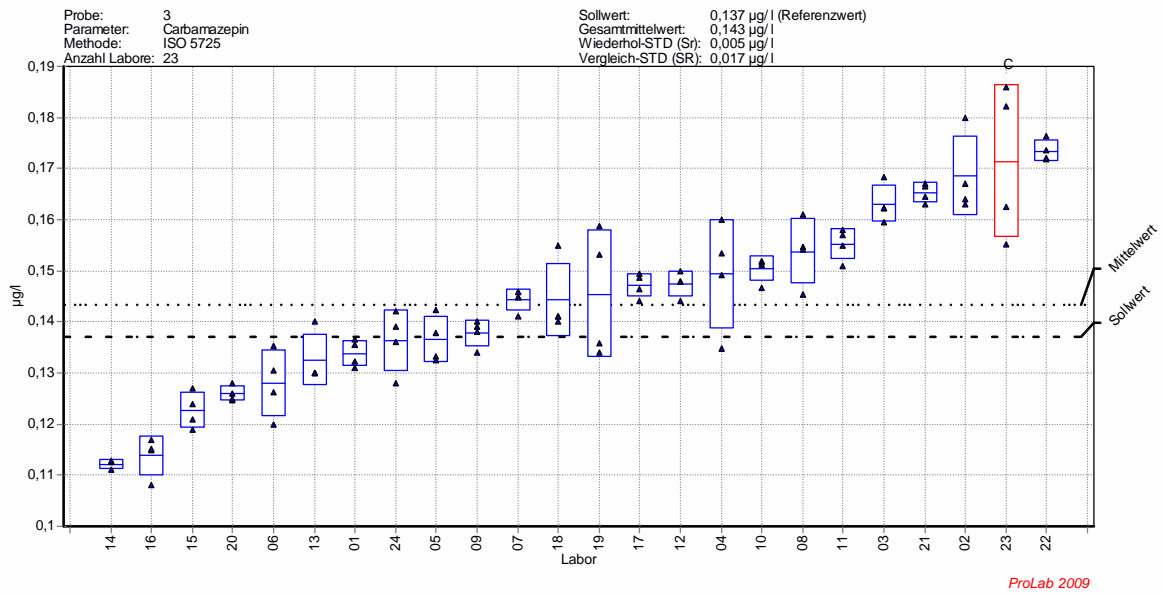


Bild A2-3.7 – Carbamazepin

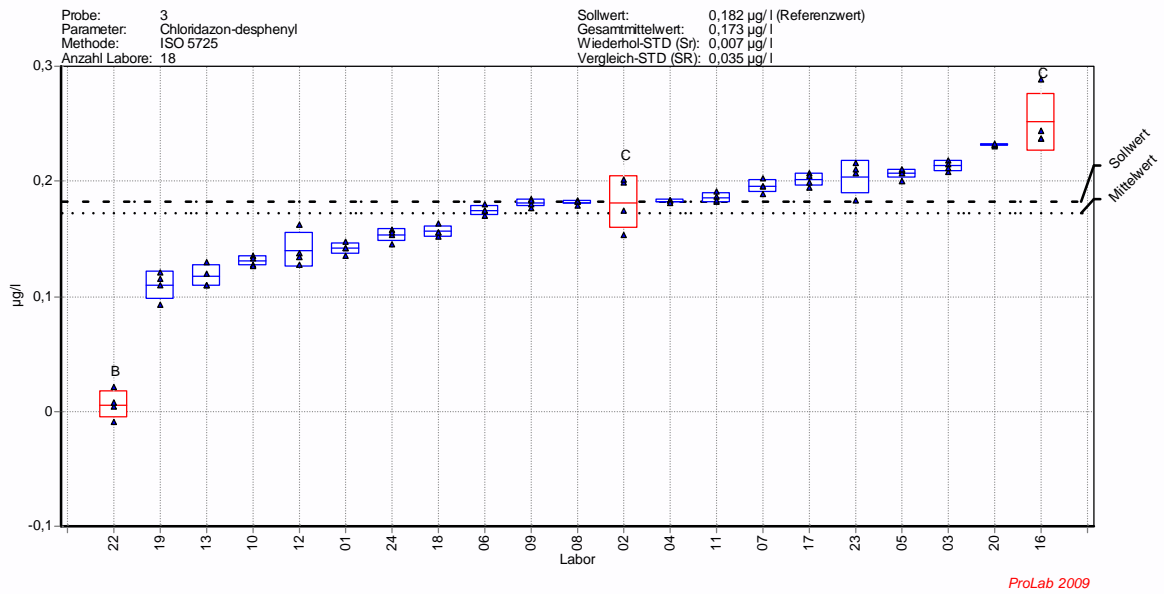
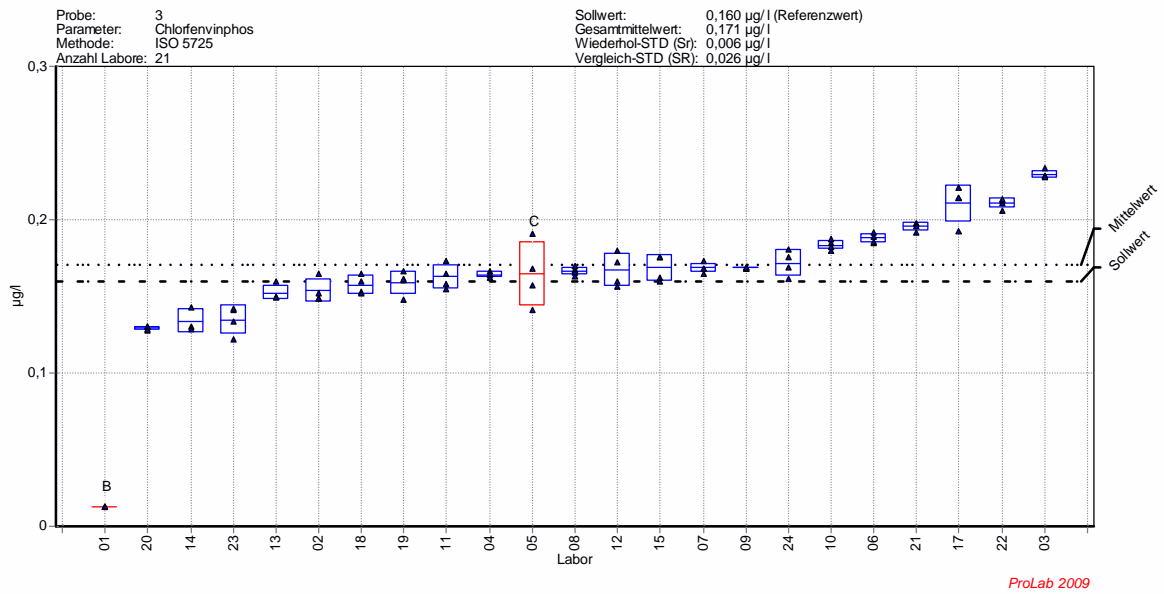
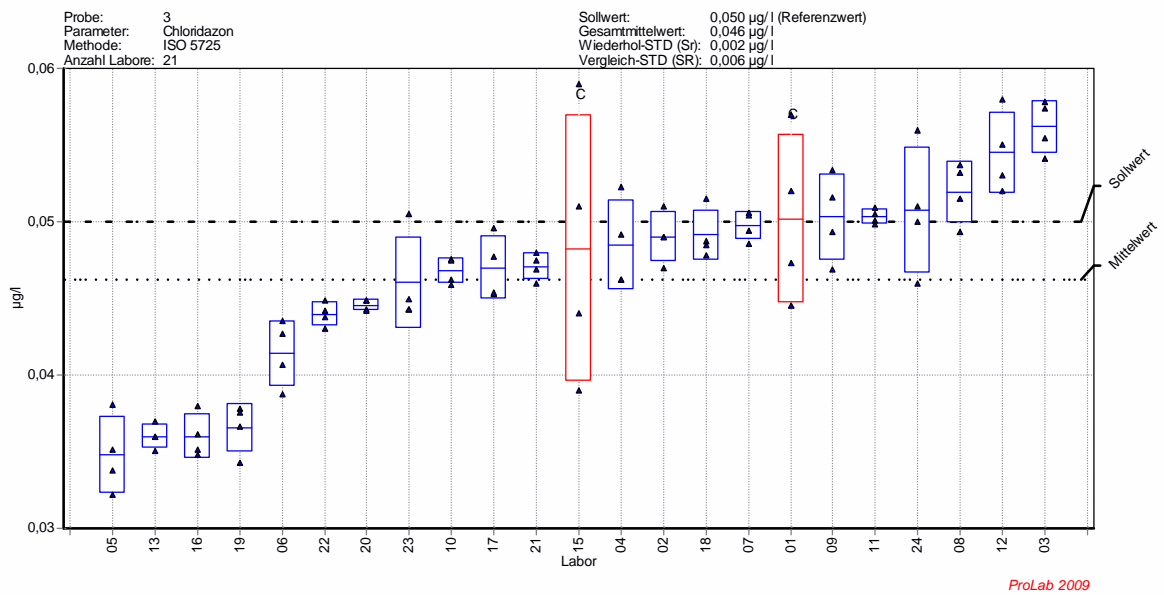


Bild A2-3.8 – Chloridazon-desphenyl

Probe 3: Oberflächenwasser



**Bild A2-3.9 – Chlorfenvinphos**



**Bild A2-3.10 – Chloridazon**

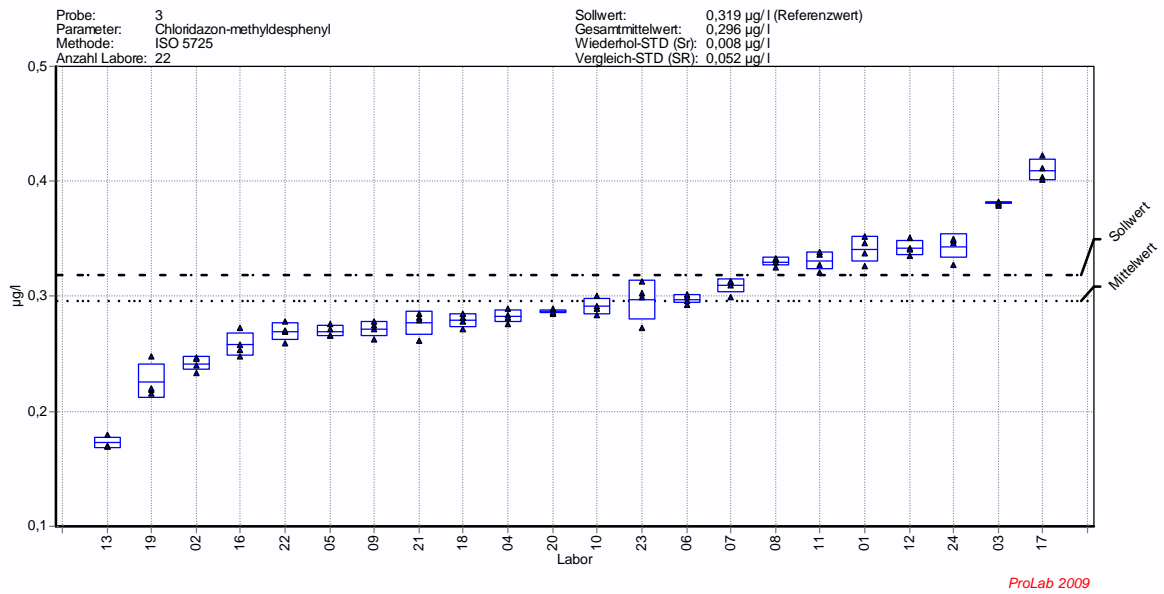


Bild A2-3.11 – Chloridazon-methyl-desphenyl

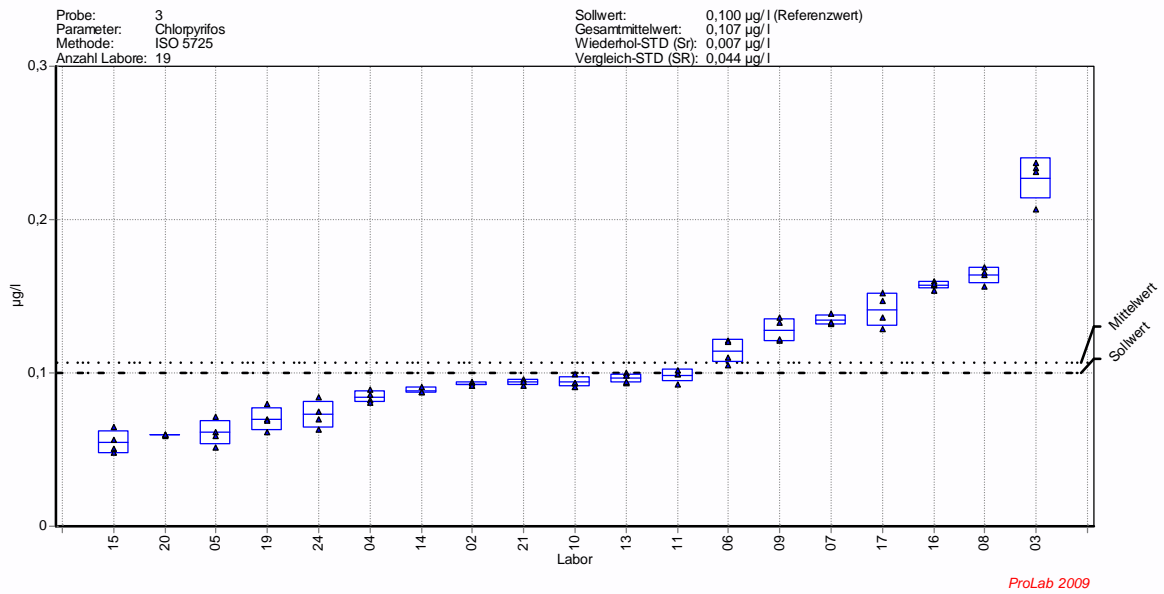


Bild A2-3.12 – Chlorpyrifos

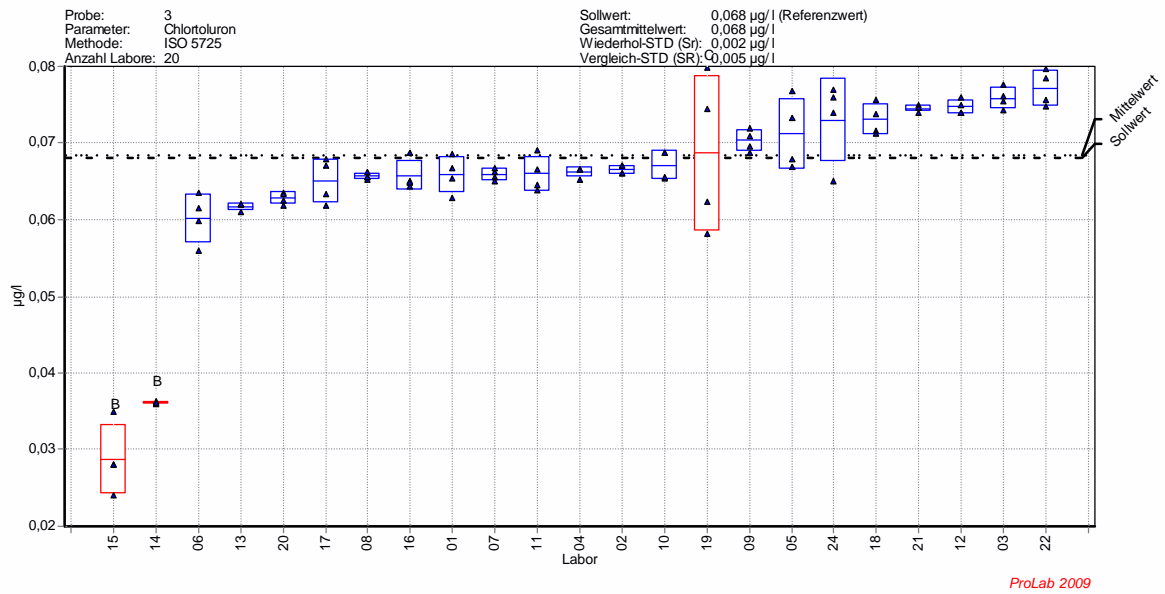


Bild A2-3.13 – Chlortoluron

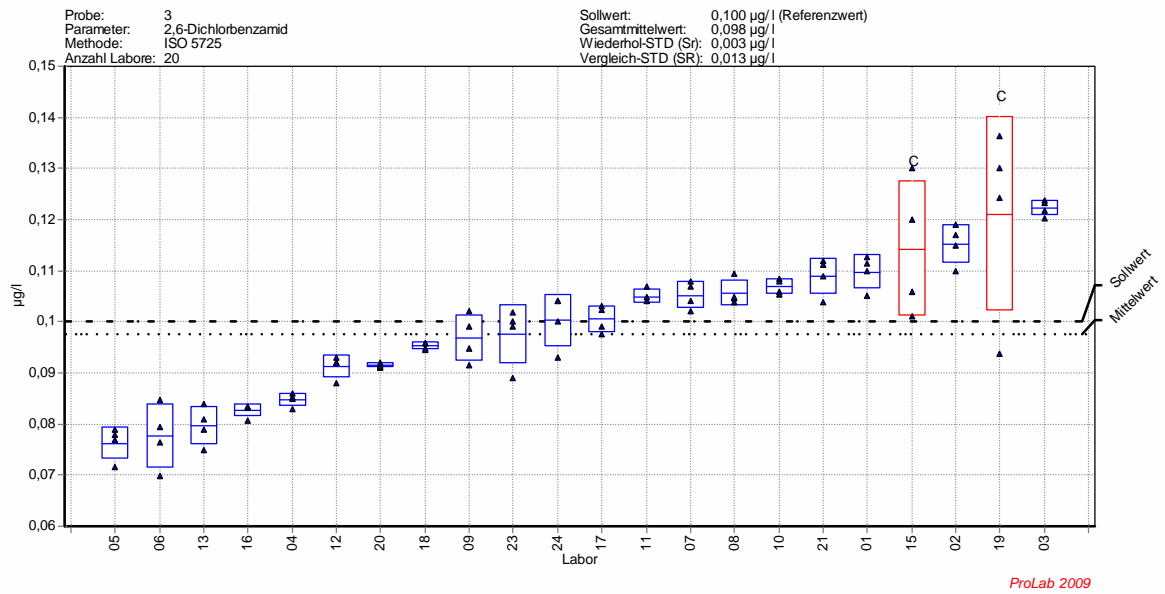


Bild A2-3.14 – 2,6-Dichlorbenzamid

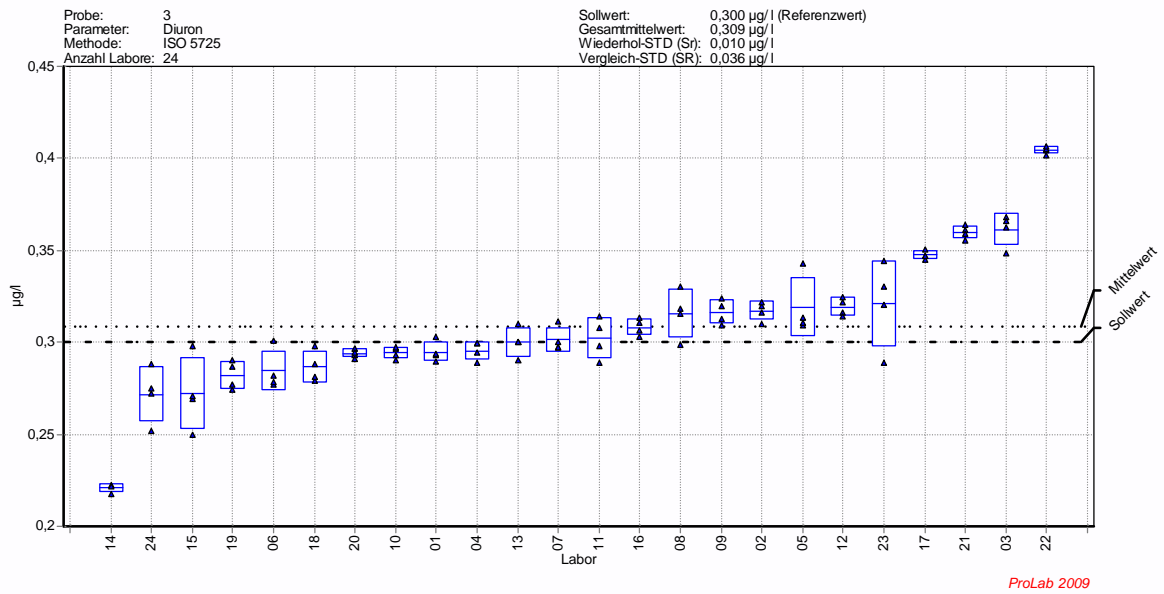


Bild A2-3.15 – Diuron

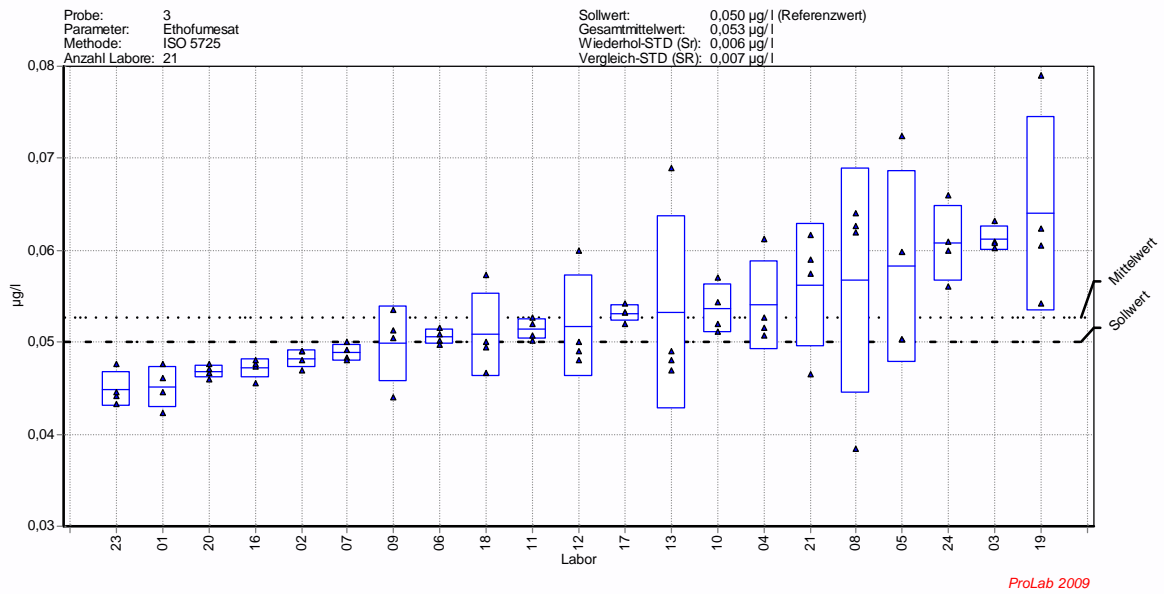
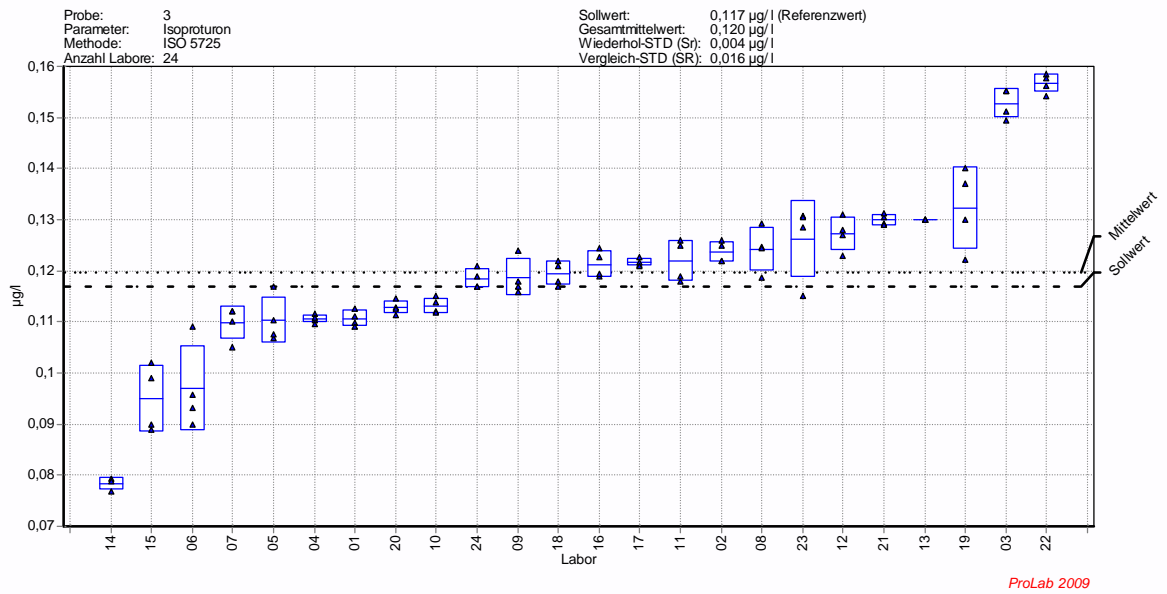
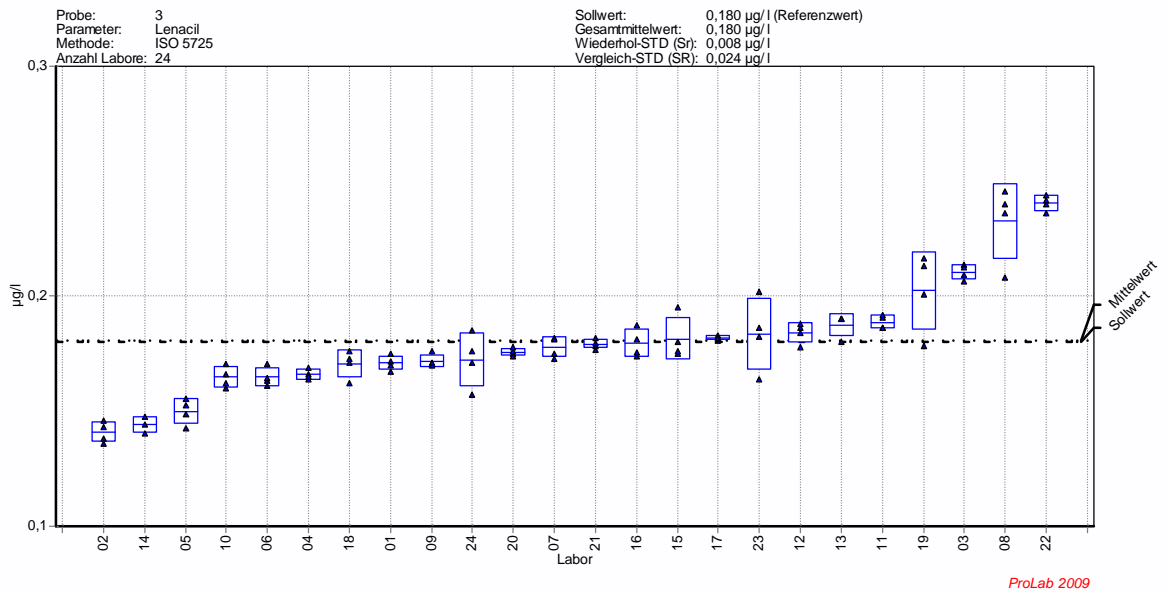


Bild A2-3.16 – Ethofumesat

Probe 3: Oberflächenwasser



**Bild A2-3.17 – Isoproturon**



**Bild A2-3.18 – Lenacil**

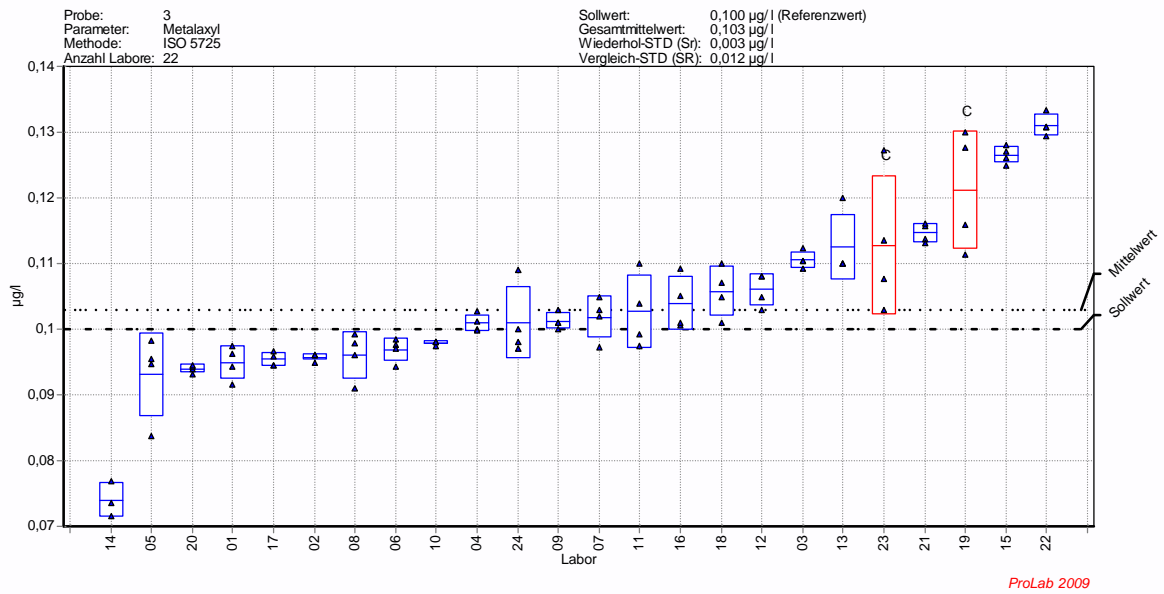


Bild A2-3.19 – Metalaxyl

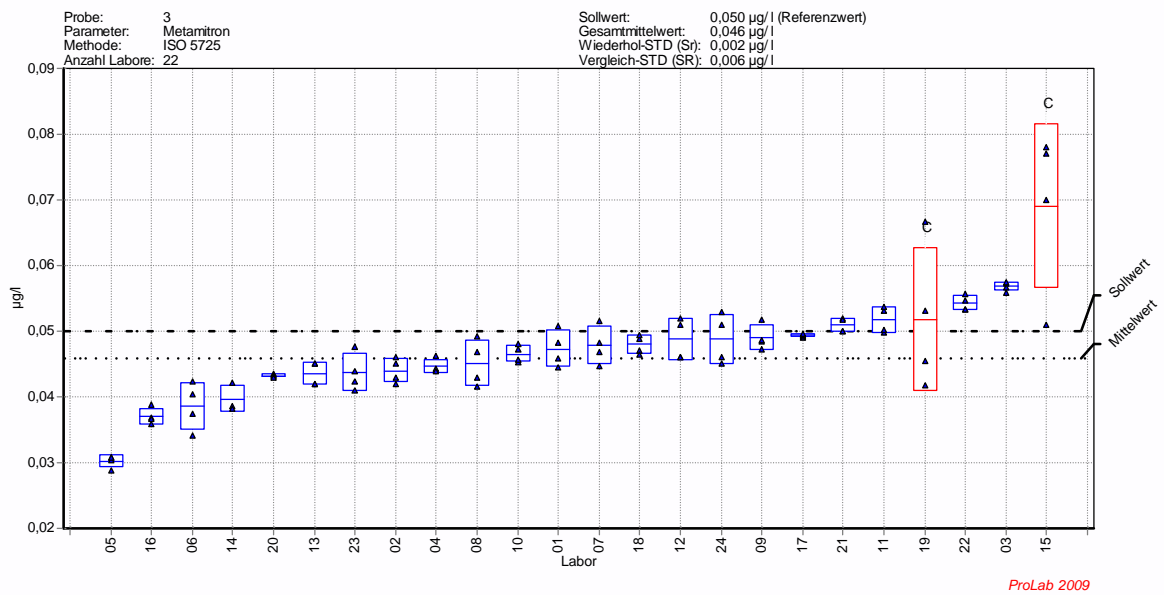


Bild A2-3.20 – Metamitron

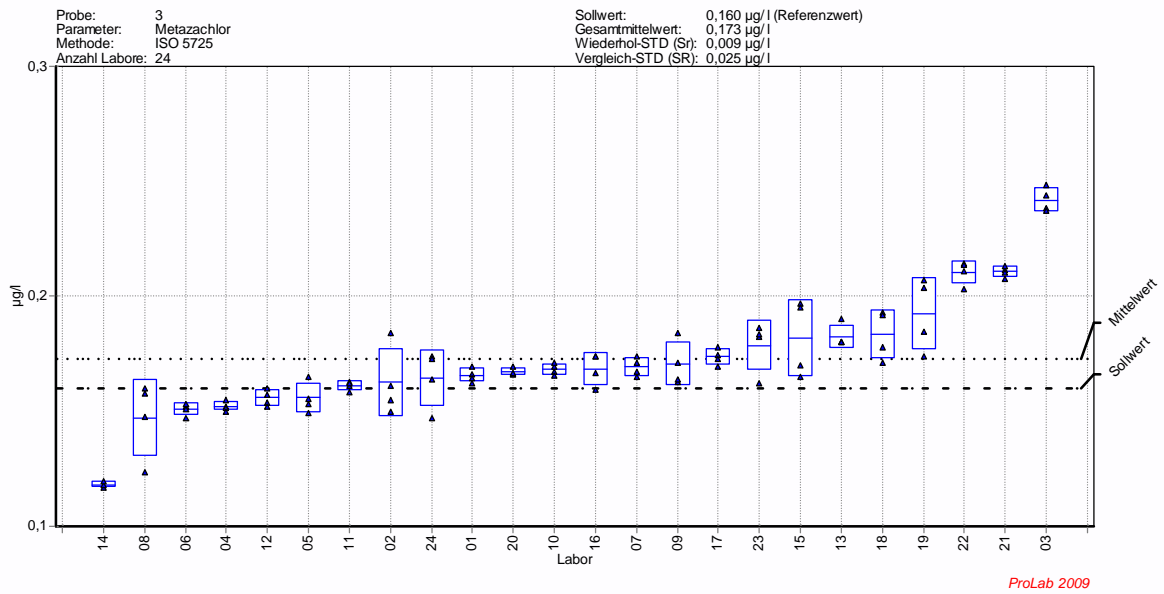


Bild A2-3.21 – Metazachlor

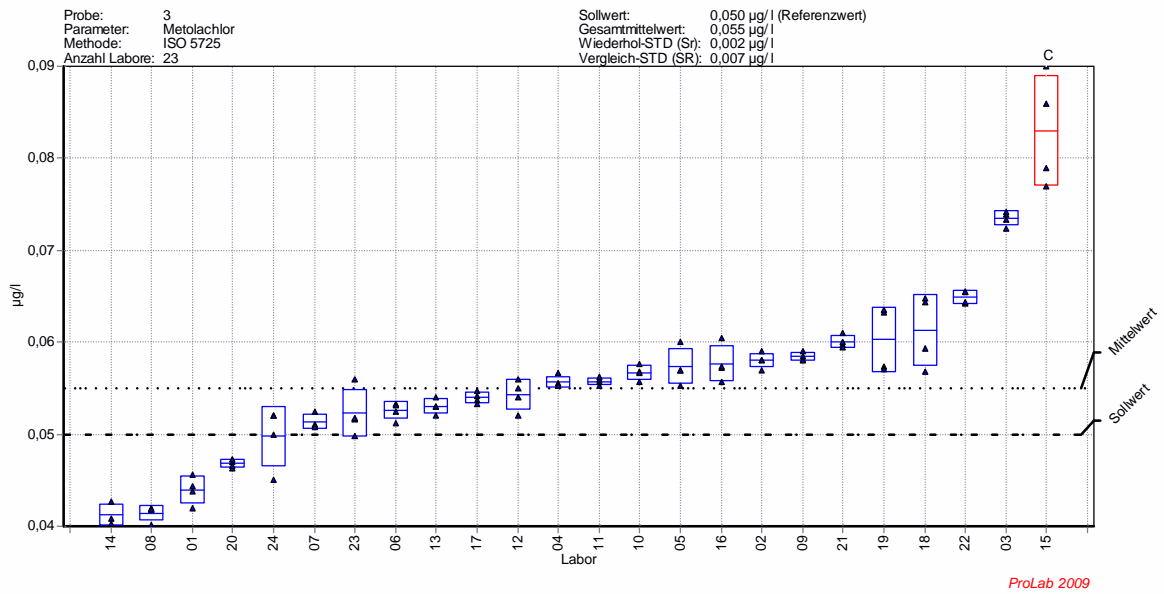


Bild A2-3.22 – Metolachlor

Probe 3: Oberflächenwasser



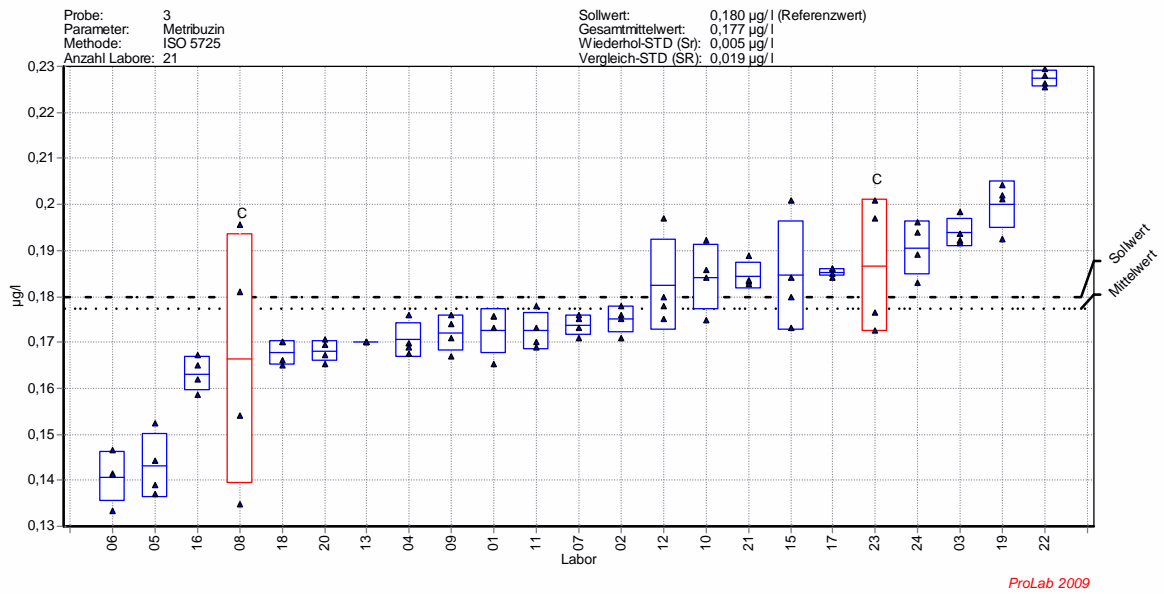


Bild A2-3.23 – Metribuzin

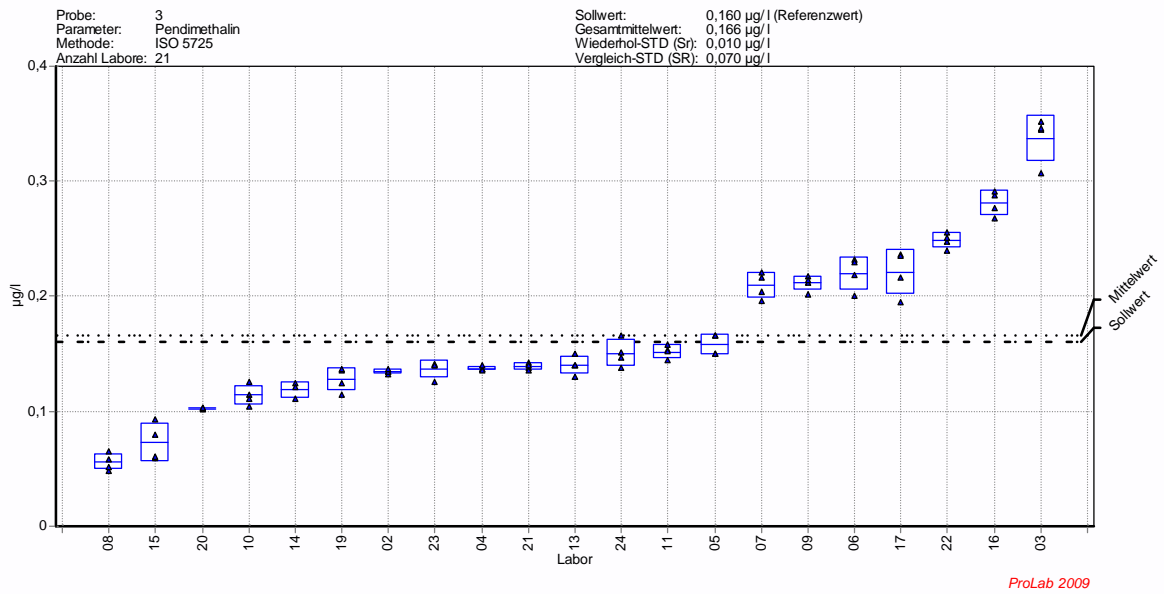


Bild A2-3.24 – Pendimethalin

Probe 3: Oberflächenwasser

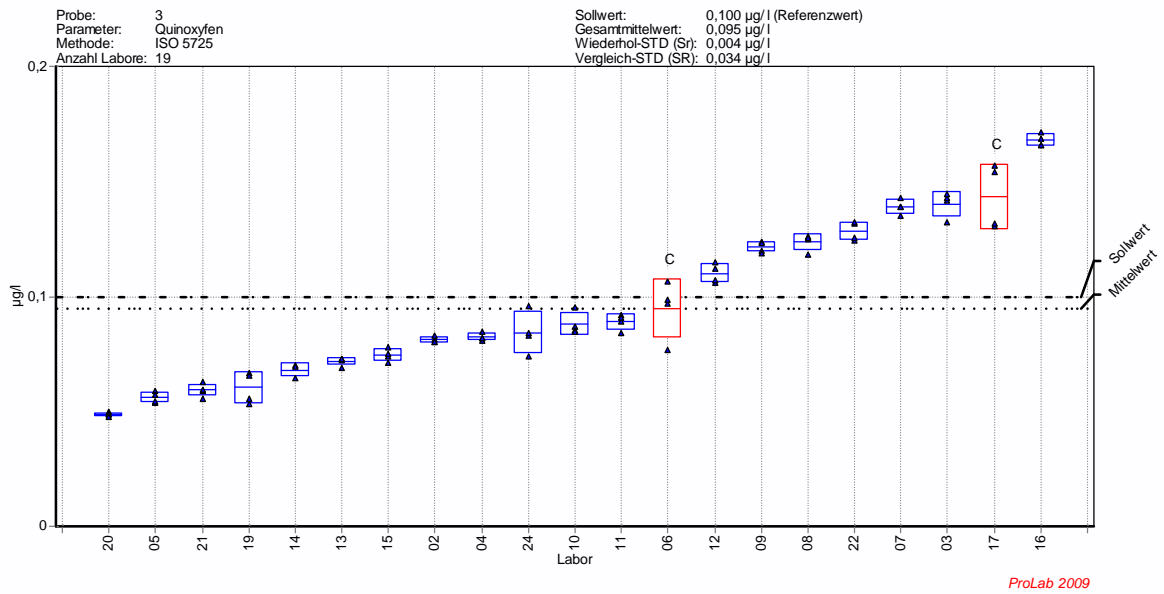


Bild A2-3.25 – Quinoxifen

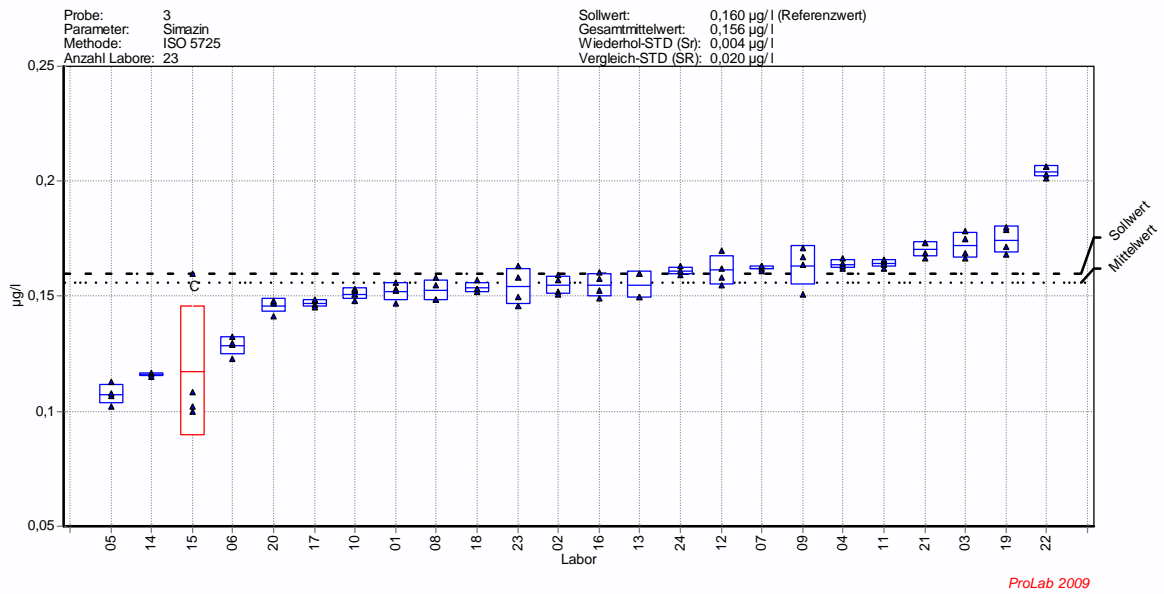


Bild A2-3.26 – Simazin

Probe 3: Oberflächenwasser

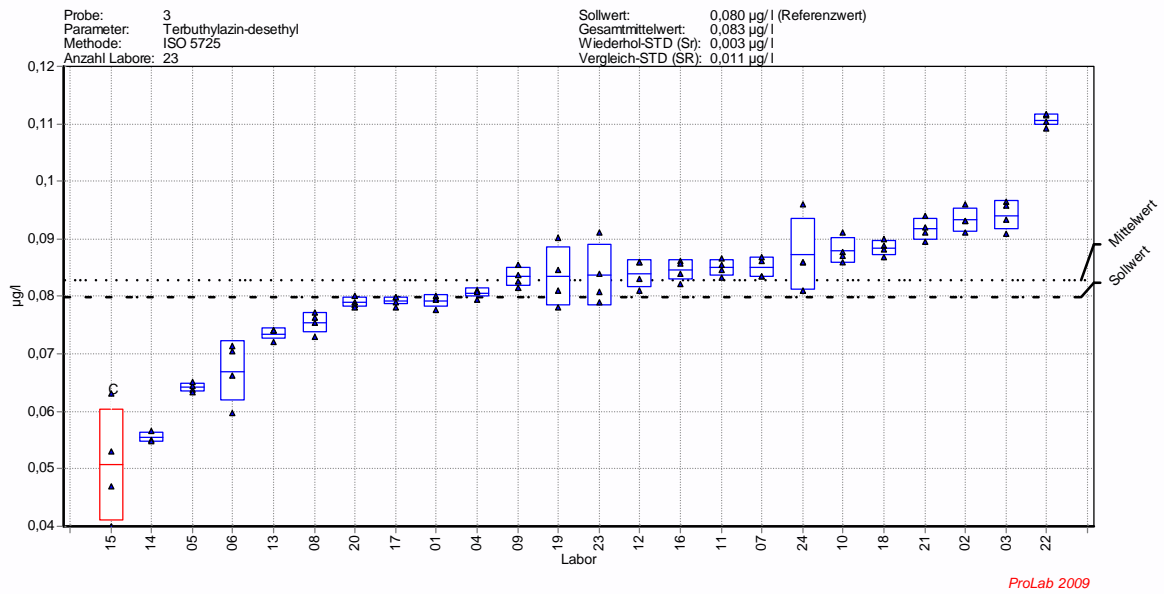


Bild A2-3.27 – Terbutylazin-desethyl

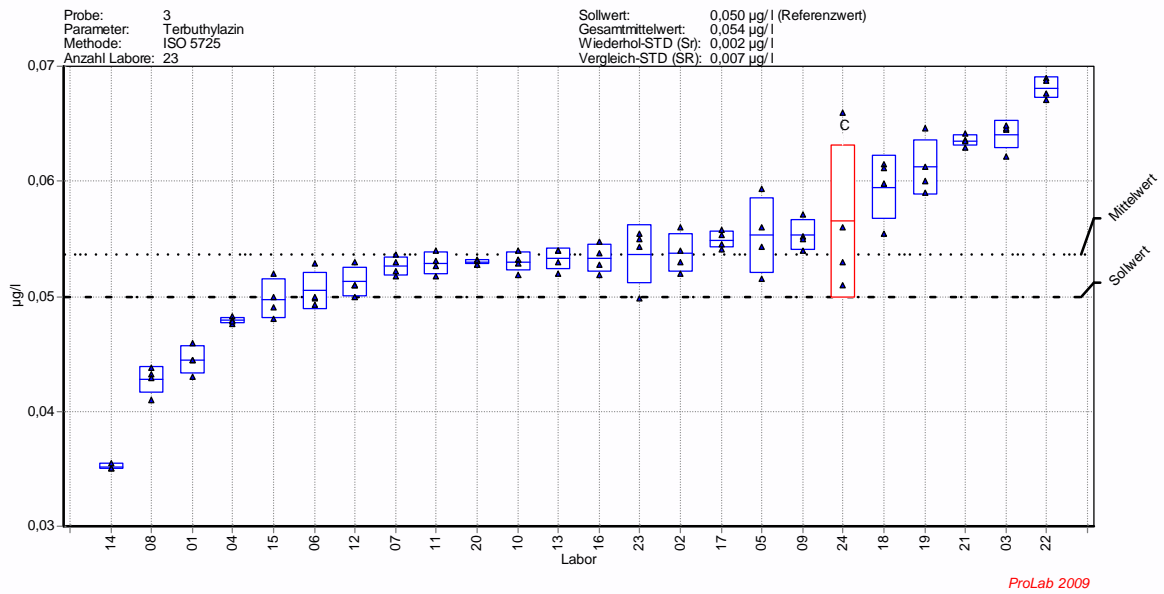


Bild A2-3.28 – Terbutylazin

Probe 4: Oberflächenwasser

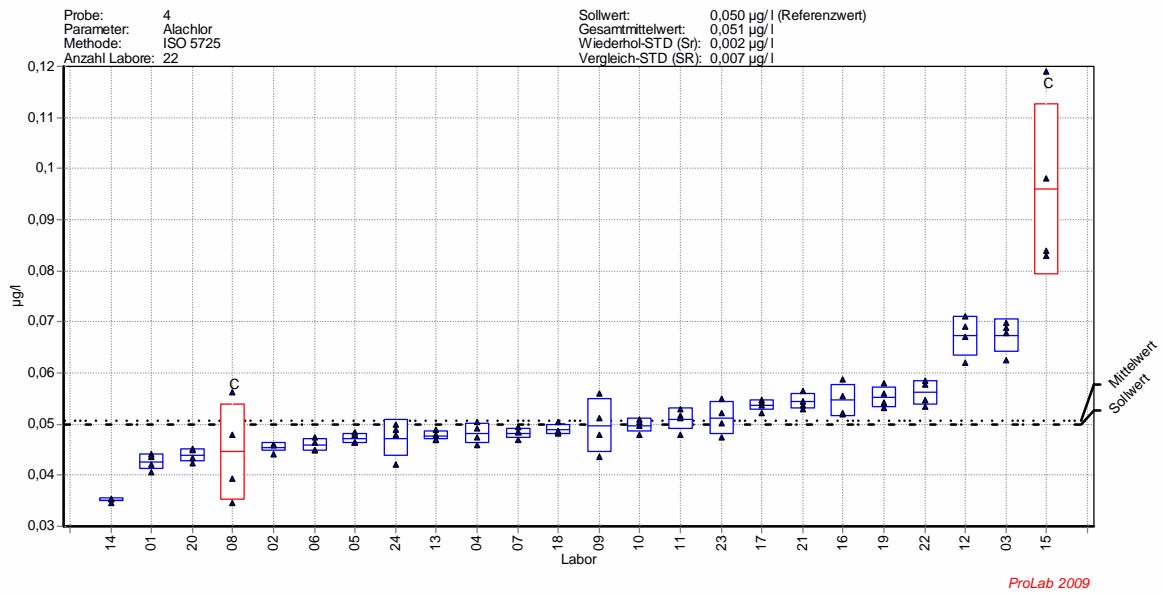


Bild A2-4.1 – Alachlor

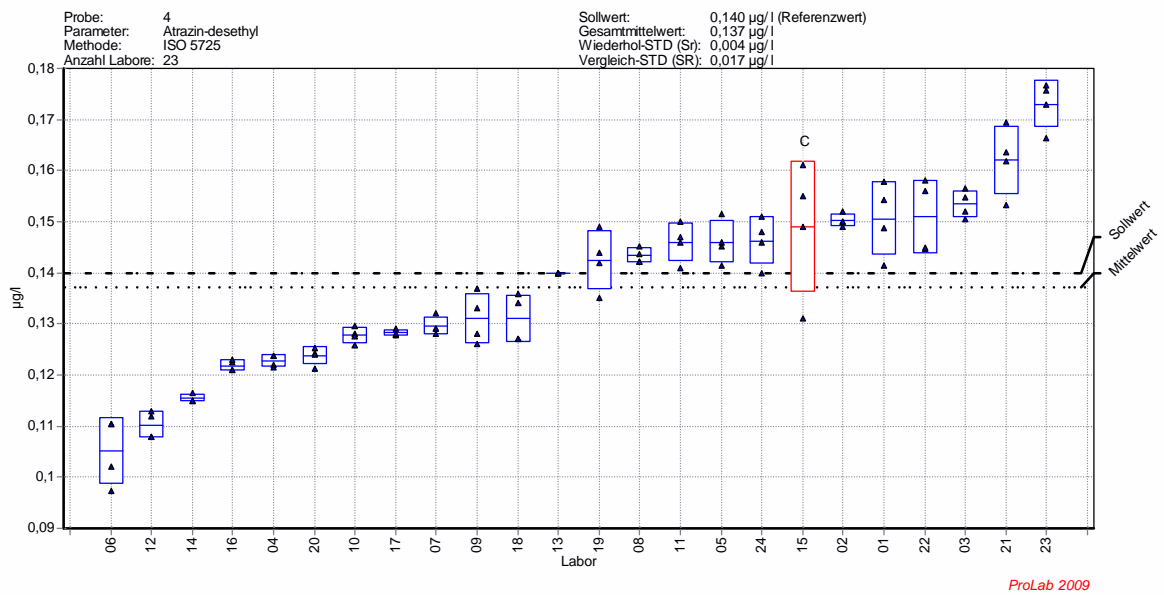


Bild A2-4.2 – Atrazin-desethyl

Probe 4: Oberflächenwasser

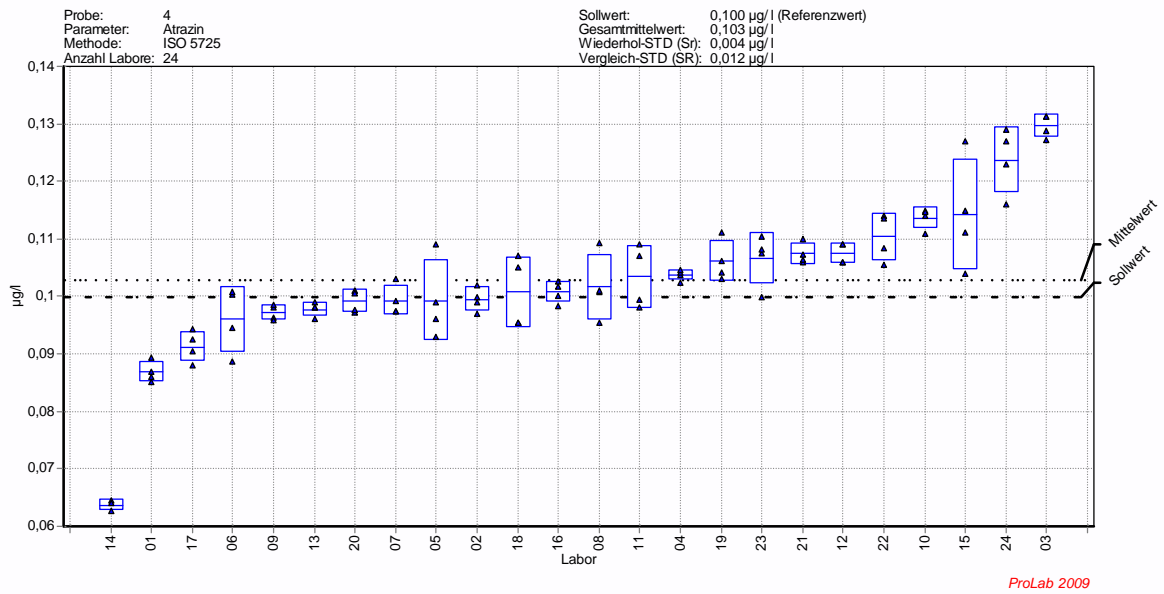


Bild A2-4.3 – Atrazin

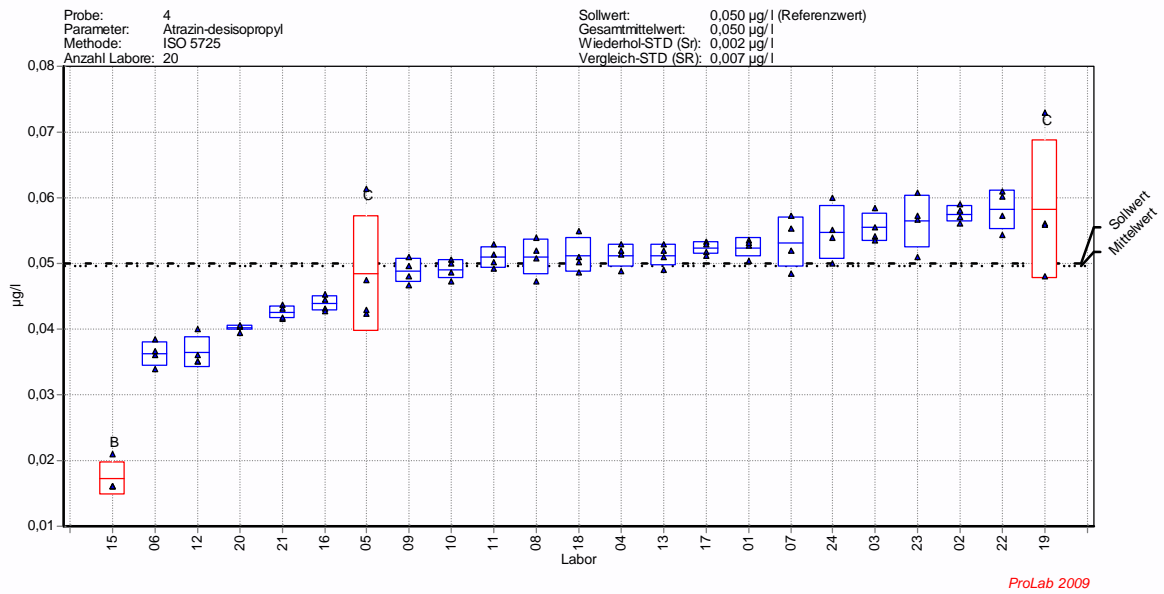
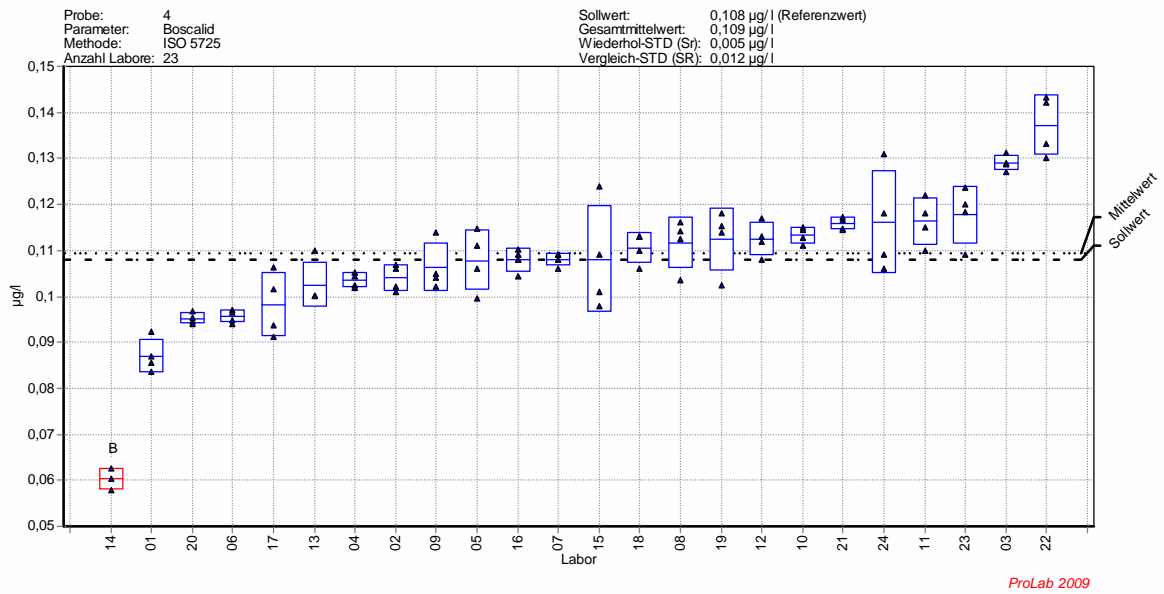
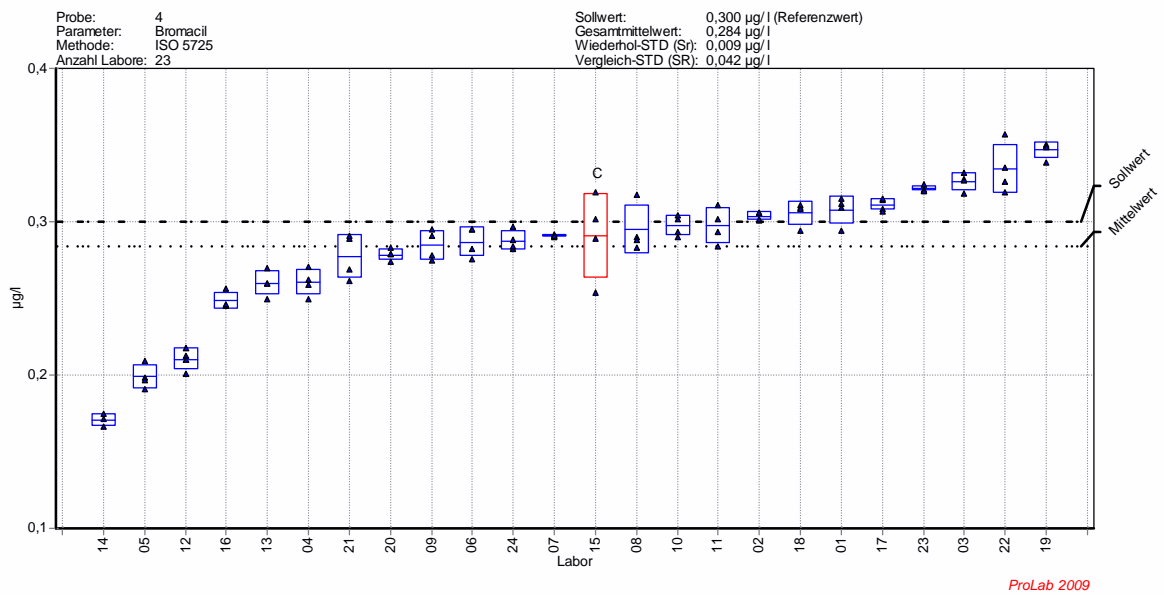


Bild A2-4.4 – Atrazin-desisopropyl

Probe 4: Oberflächenwasser



**Bild A2-4.5 – Boscalid**



**Bild A2-4.6 – Bromacil**

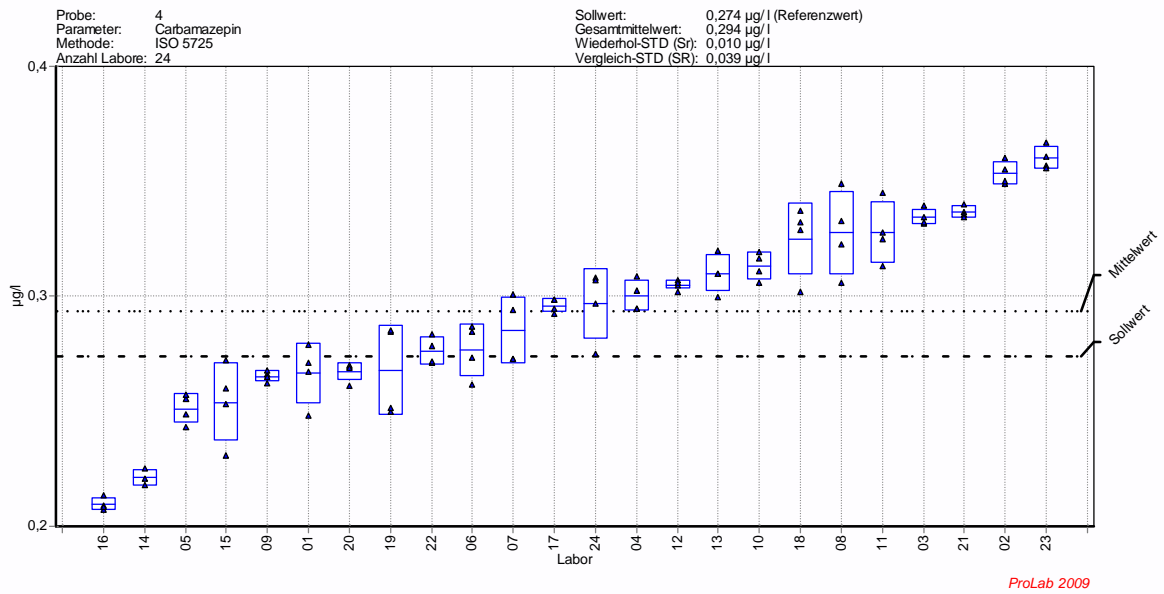


Bild A2-4.7 – Carbamazepin

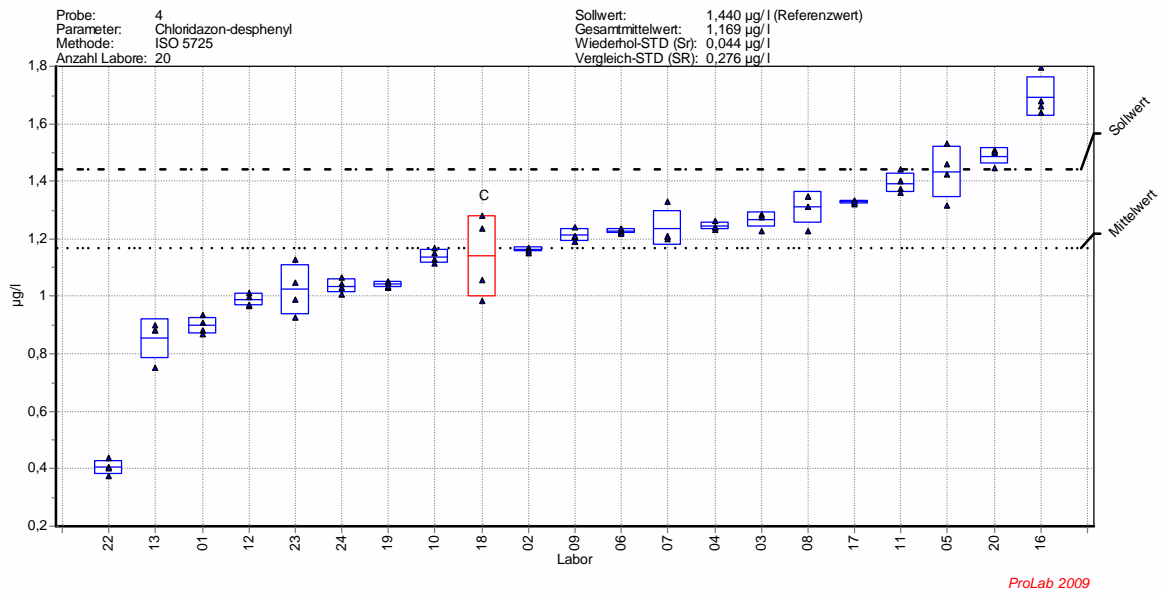


Bild A2-4.8 – Chloridazon-desphenyl

Probe 4: Oberflächenwasser

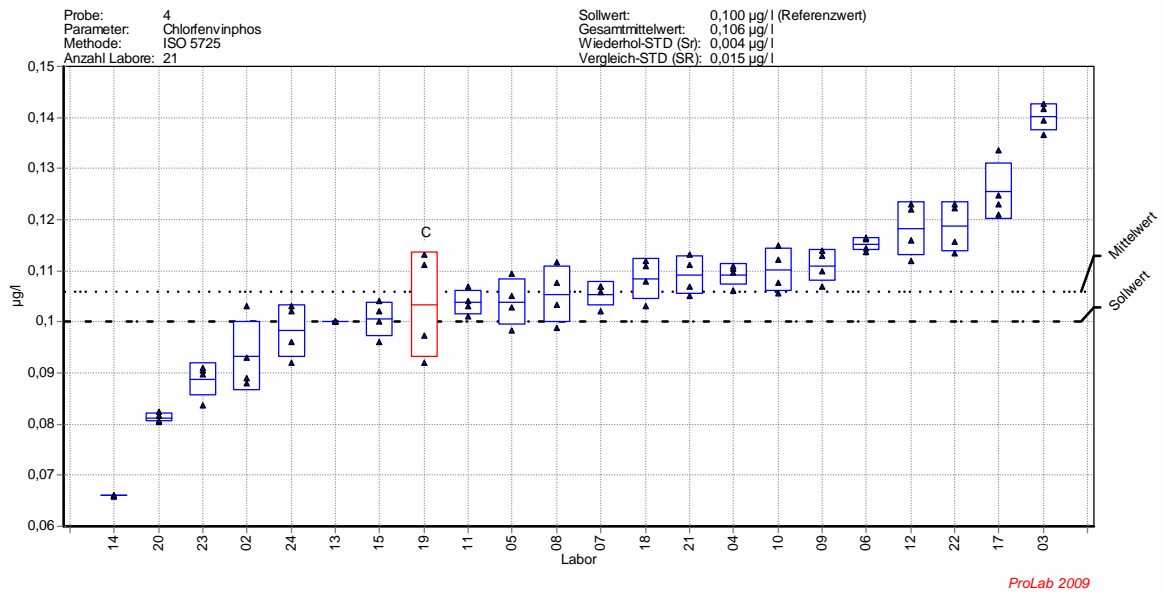


Bild A2-4.9 – Chlorfenvinphos

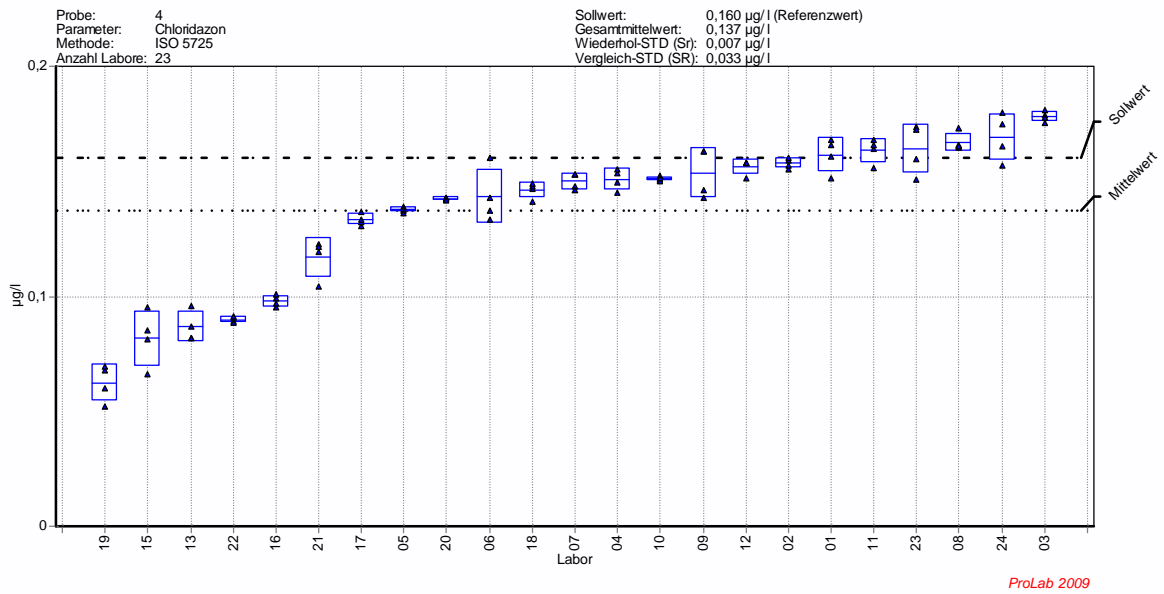


Bild A2-4.10 – Chloridazon

Probe 4: Oberflächenwasser



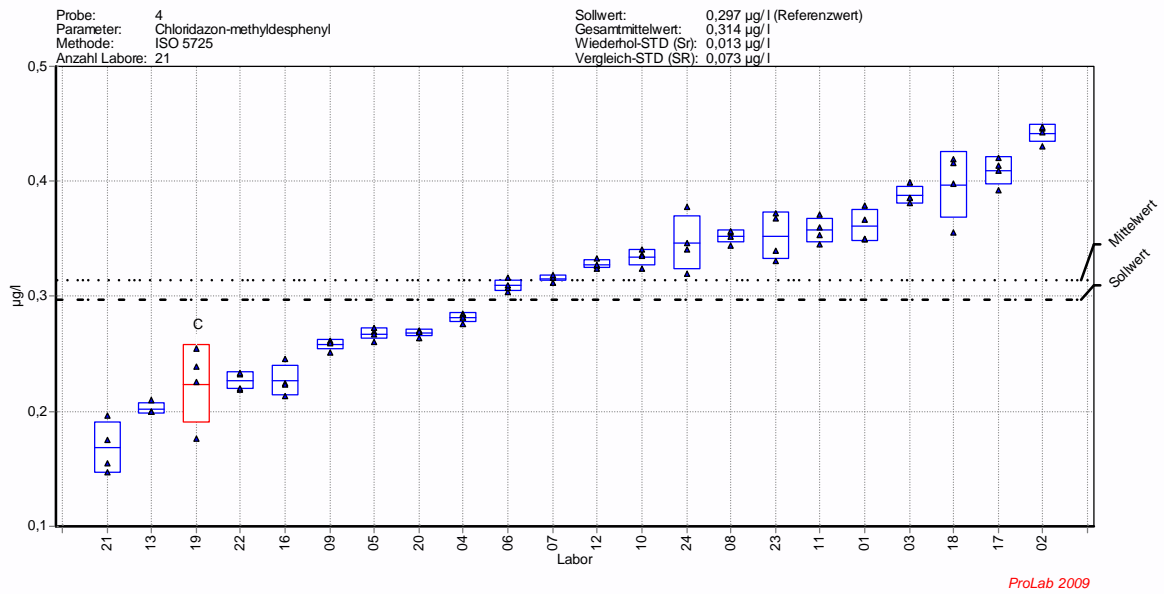


Bild A2-4.11 – Chloridazon-methyl-desphenyl

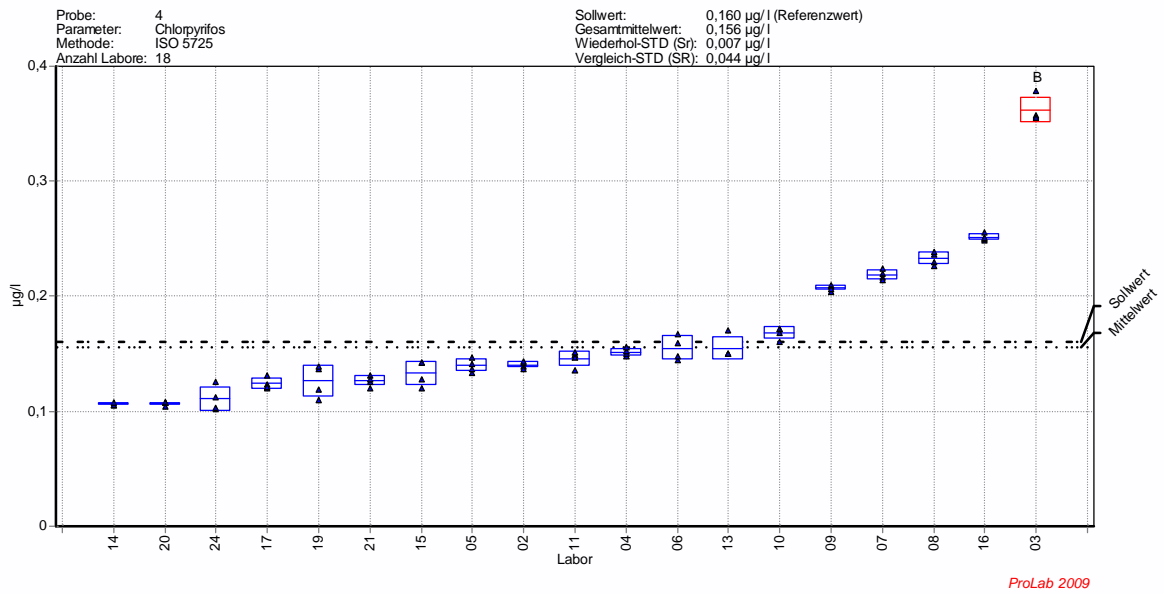


Bild A2-4.12 – Chlorpyrifos

Probe 4: Oberflächenwasser

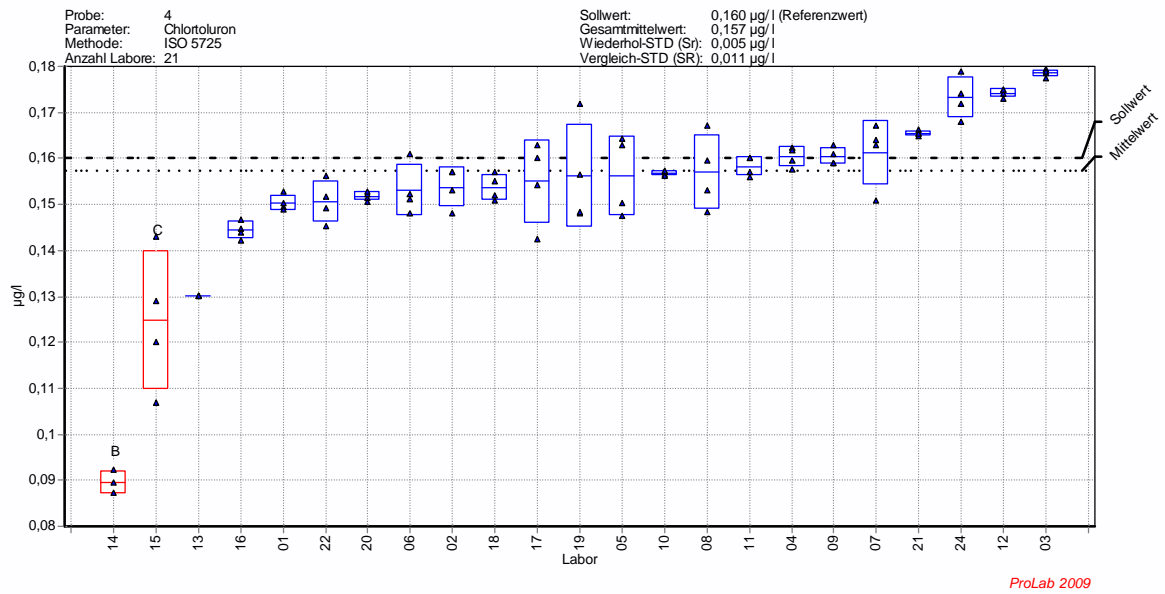


Bild A2-4.13 – Chlortoluron

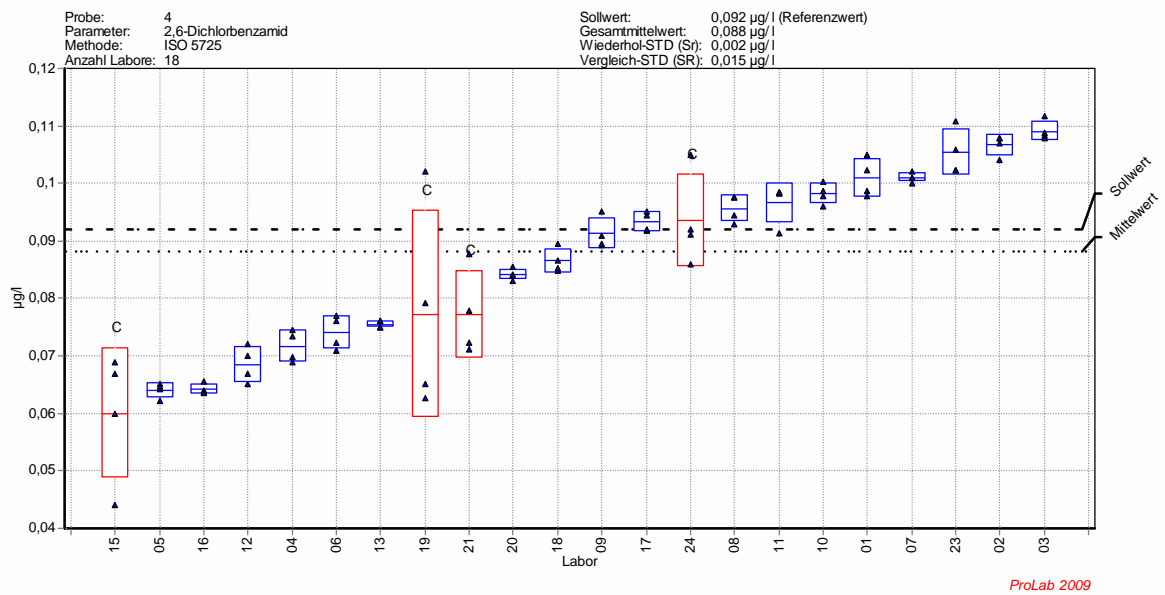


Bild A2-4.14 – 2,6-Dichlorbenzamid

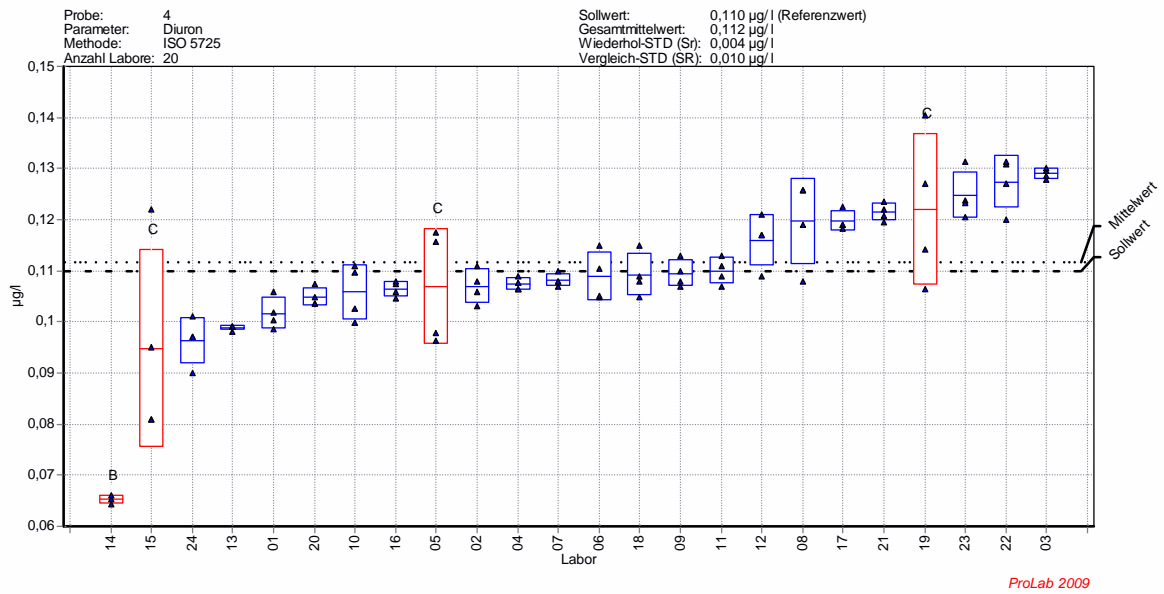


Bild A2-4.15 – Diuron

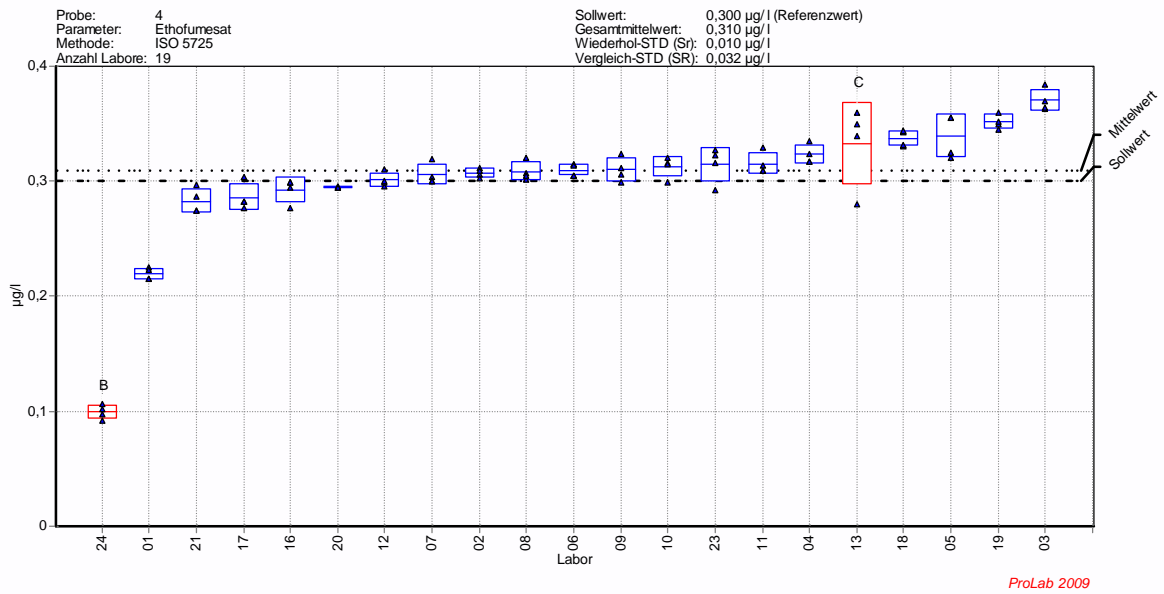


Bild A2-4.16 – Ethofumesat

Probe 4: Oberflächenwasser

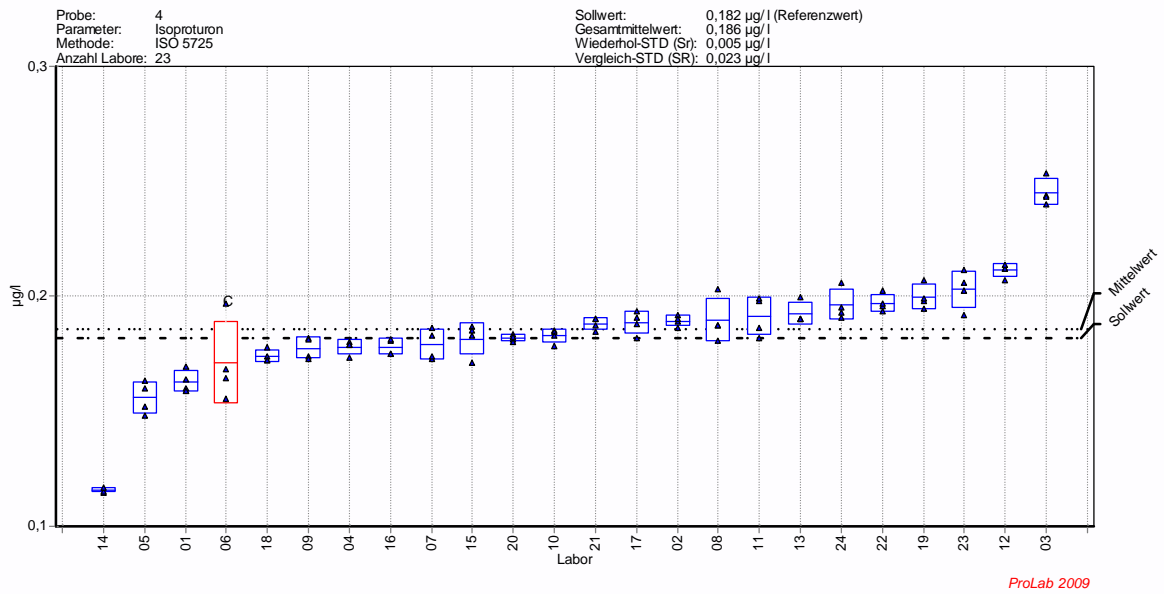


Bild A2-4.17 – Isoproturon

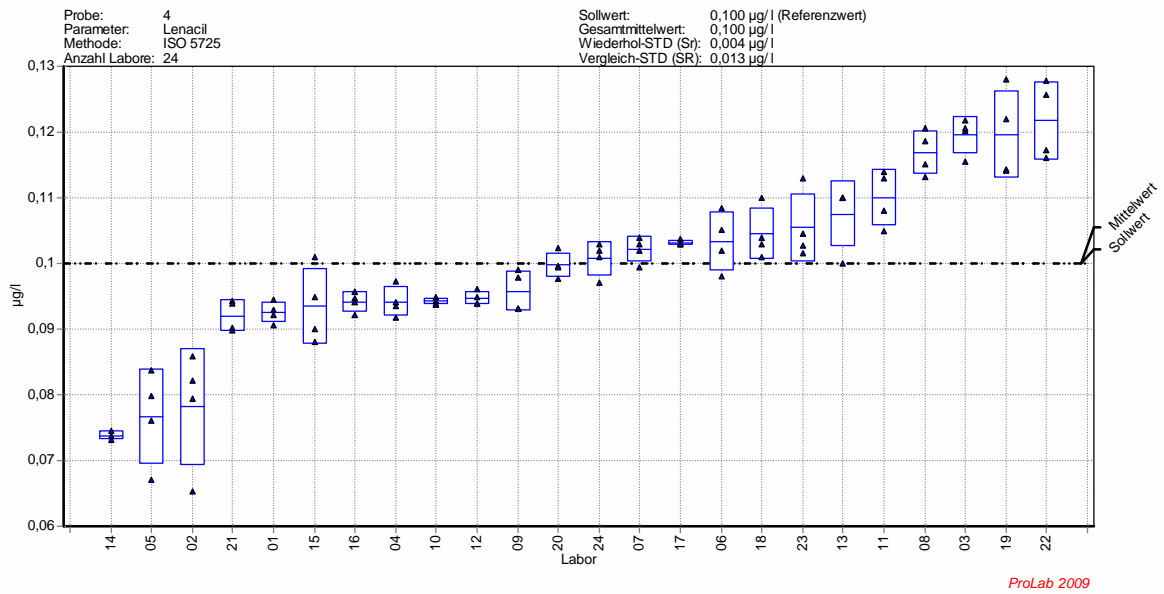


Bild A2-4.18 – Lenacil

Probe 4: Oberflächenwasser

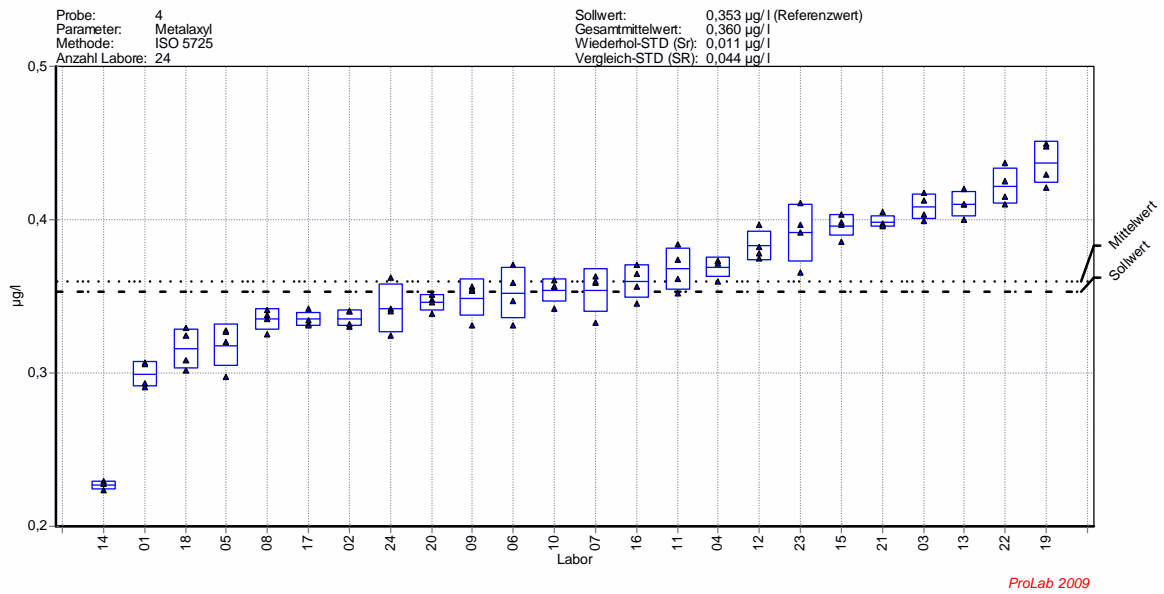


Bild A2-4.19 – Metalaxyl

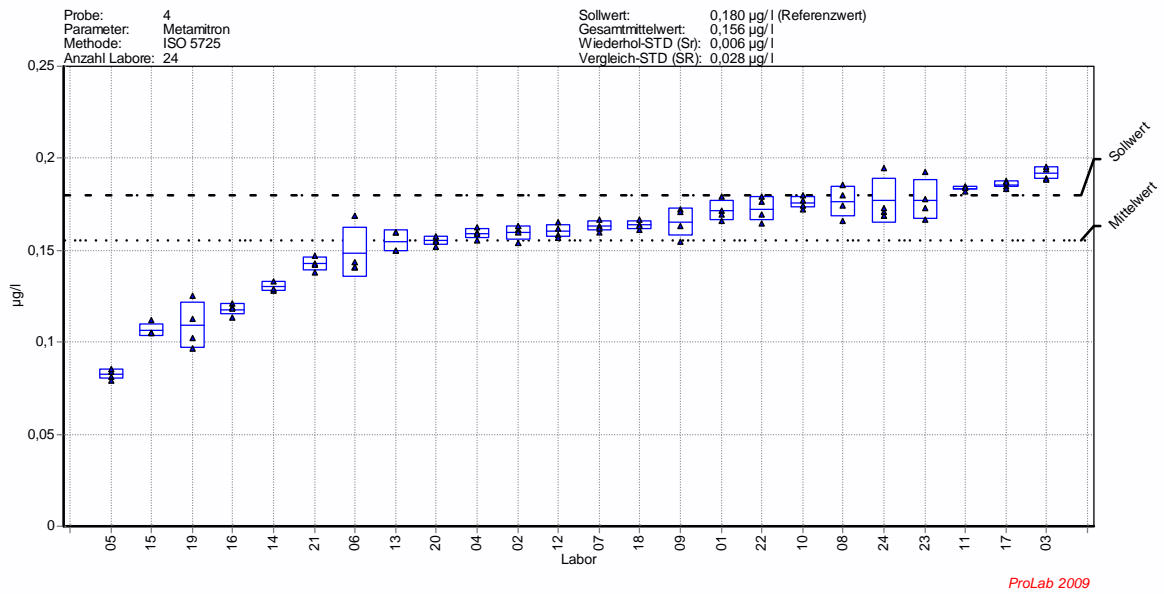


Bild A2-4.20 – Metamitron

Probe 4: Oberflächenwasser

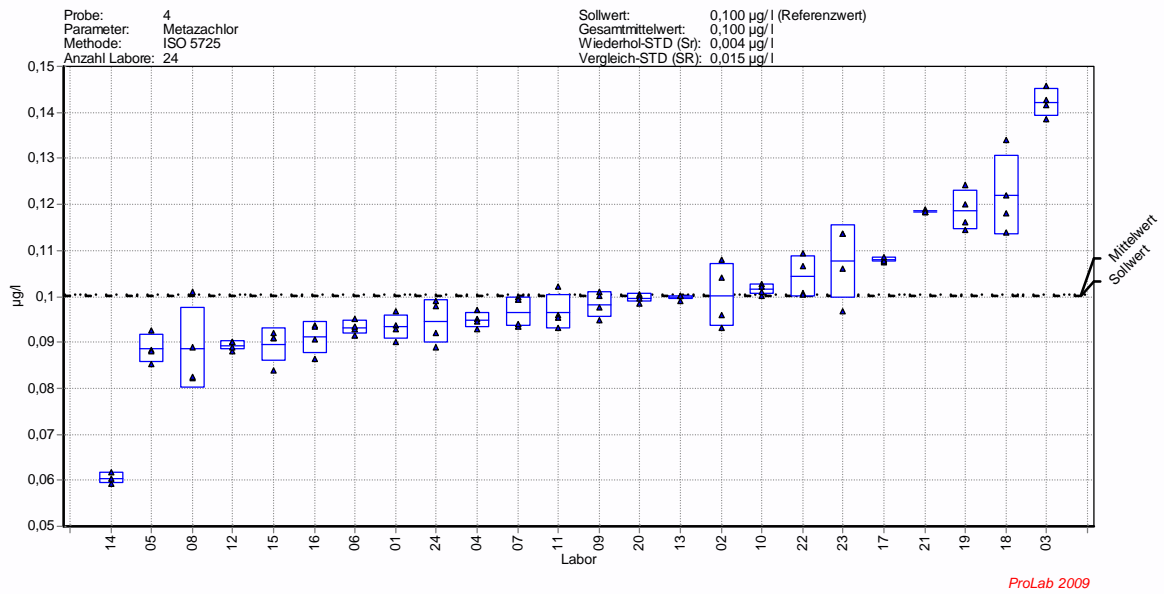


Bild A2-4.21 – Metazachlor

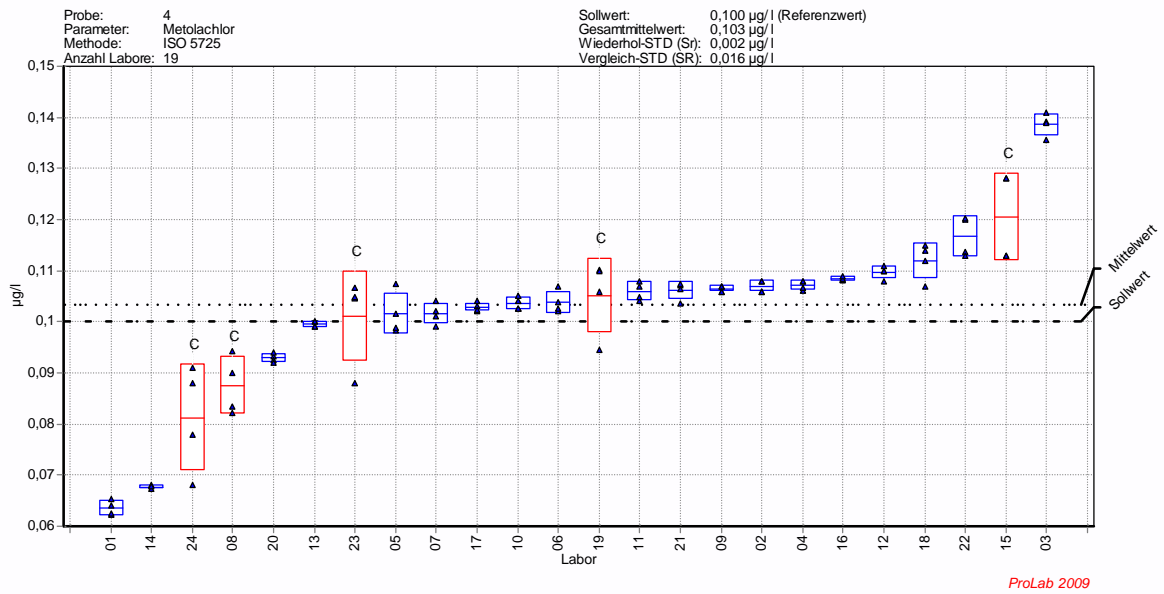


Bild A2-4.22 – Metolachlor

Probe 4: Oberflächenwasser

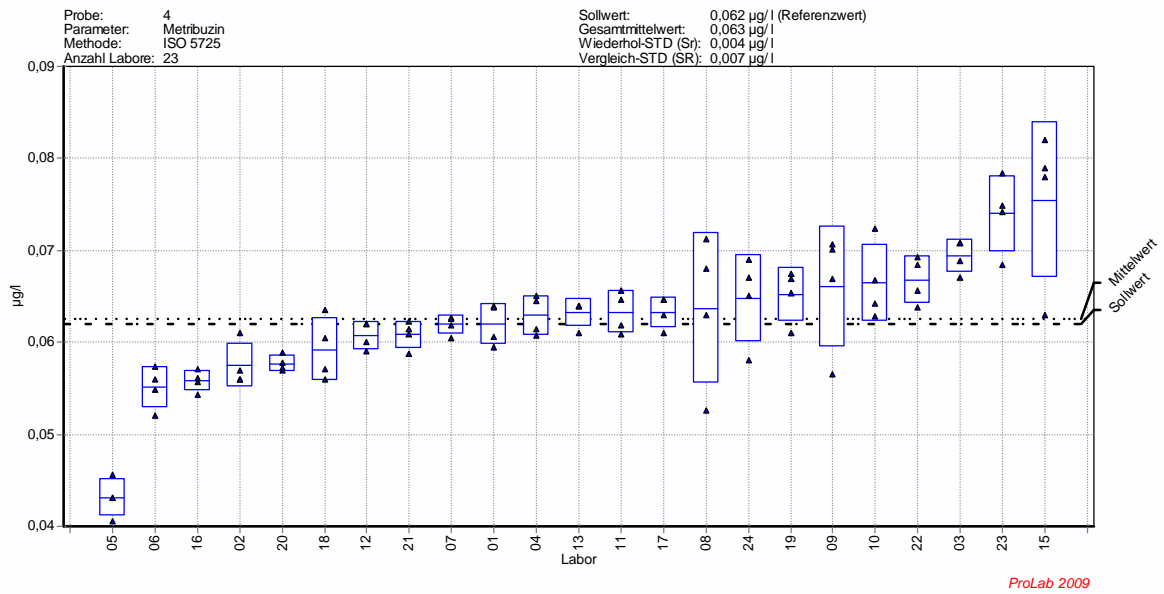


Bild A2-4.23 – Metribuzin

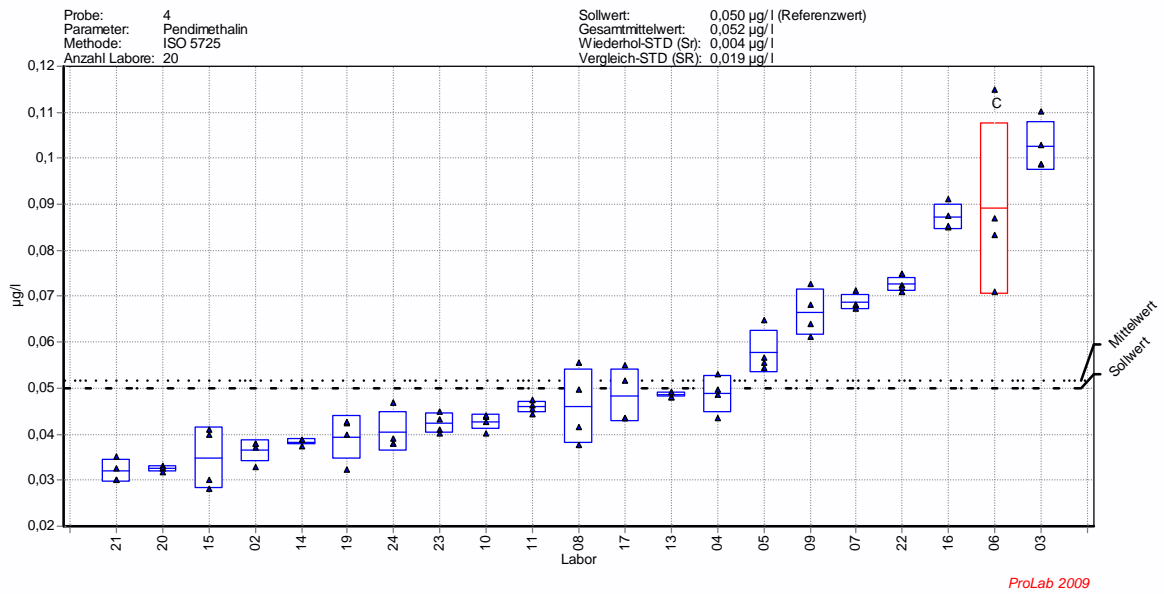


Bild A2-4.24 – Pendimethalin

Probe 4: Oberflächenwasser

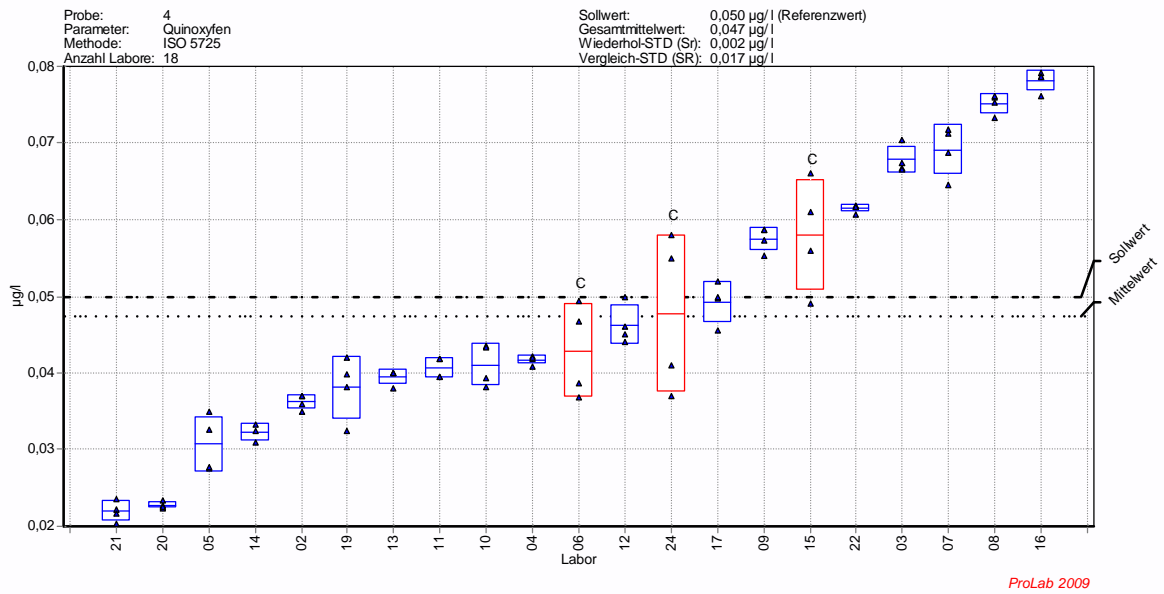


Bild A2-4.25 – Quinoxifen

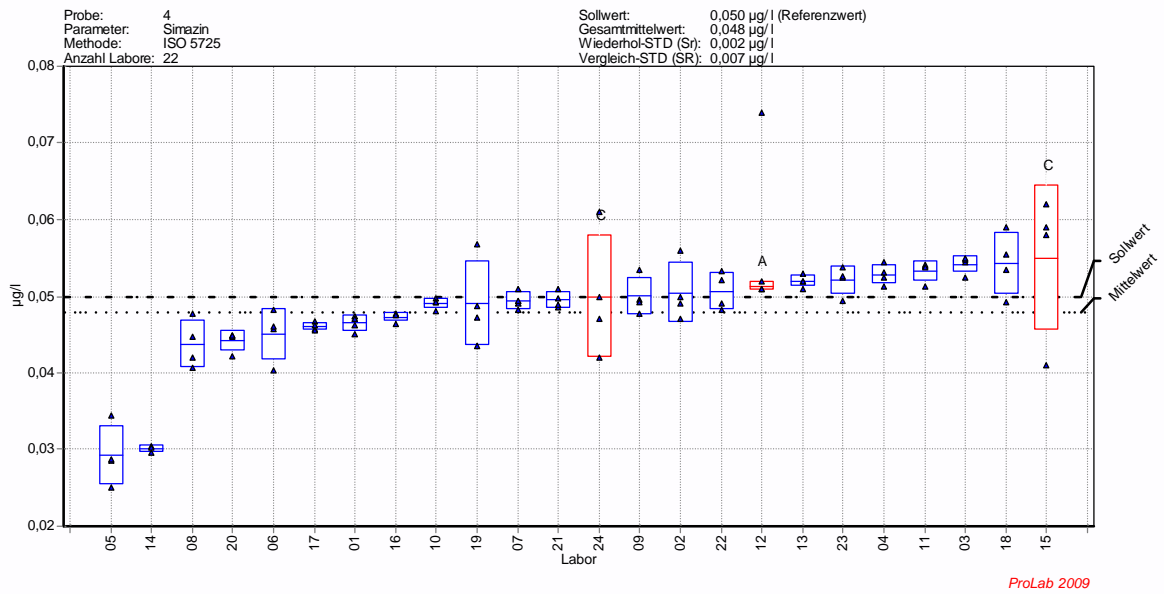


Bild A2-4.26 – Simazin



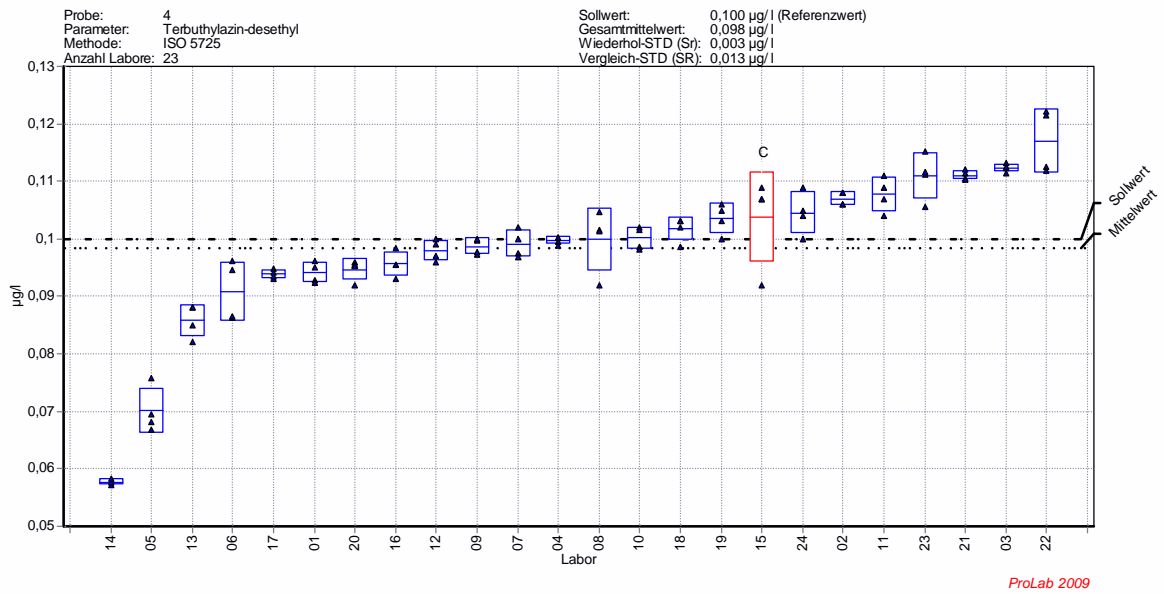


Bild A2-4.27 – Terbutylazin-desethyl

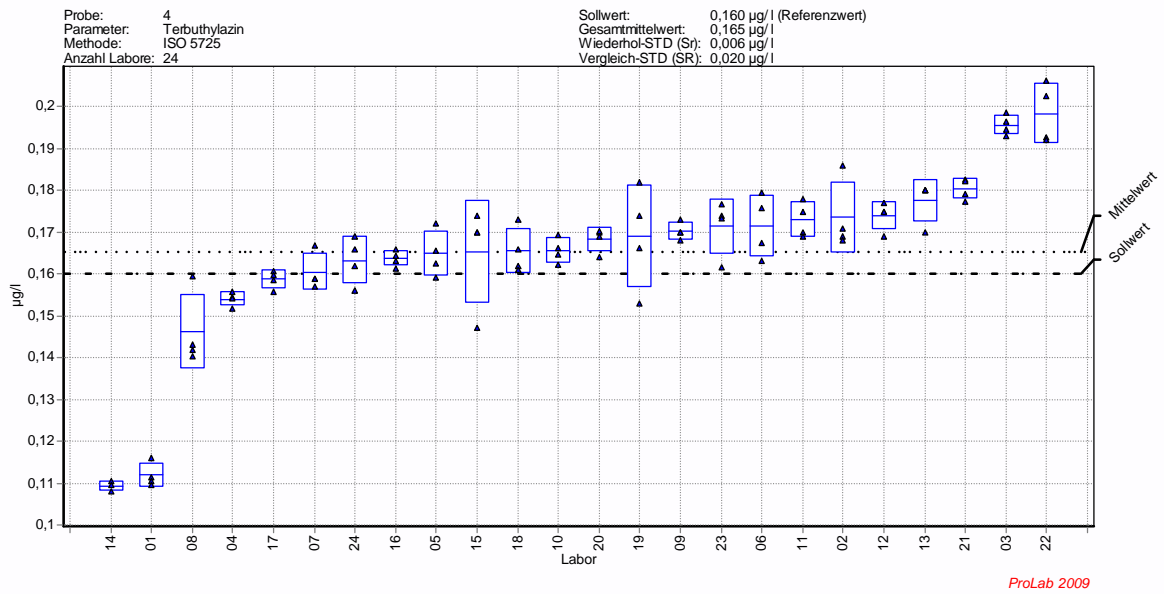


Bild A2-4.28 – Terbutylazin