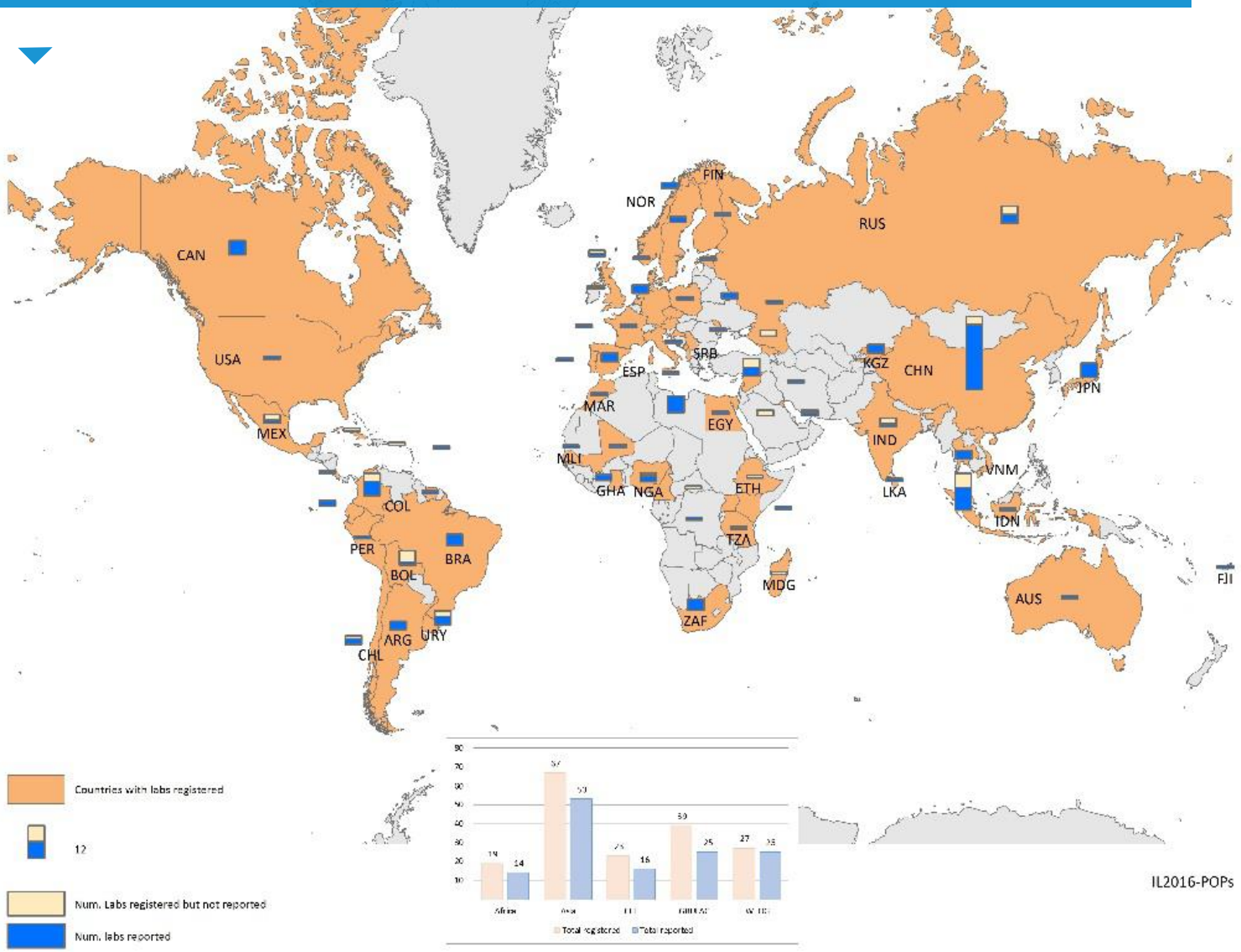
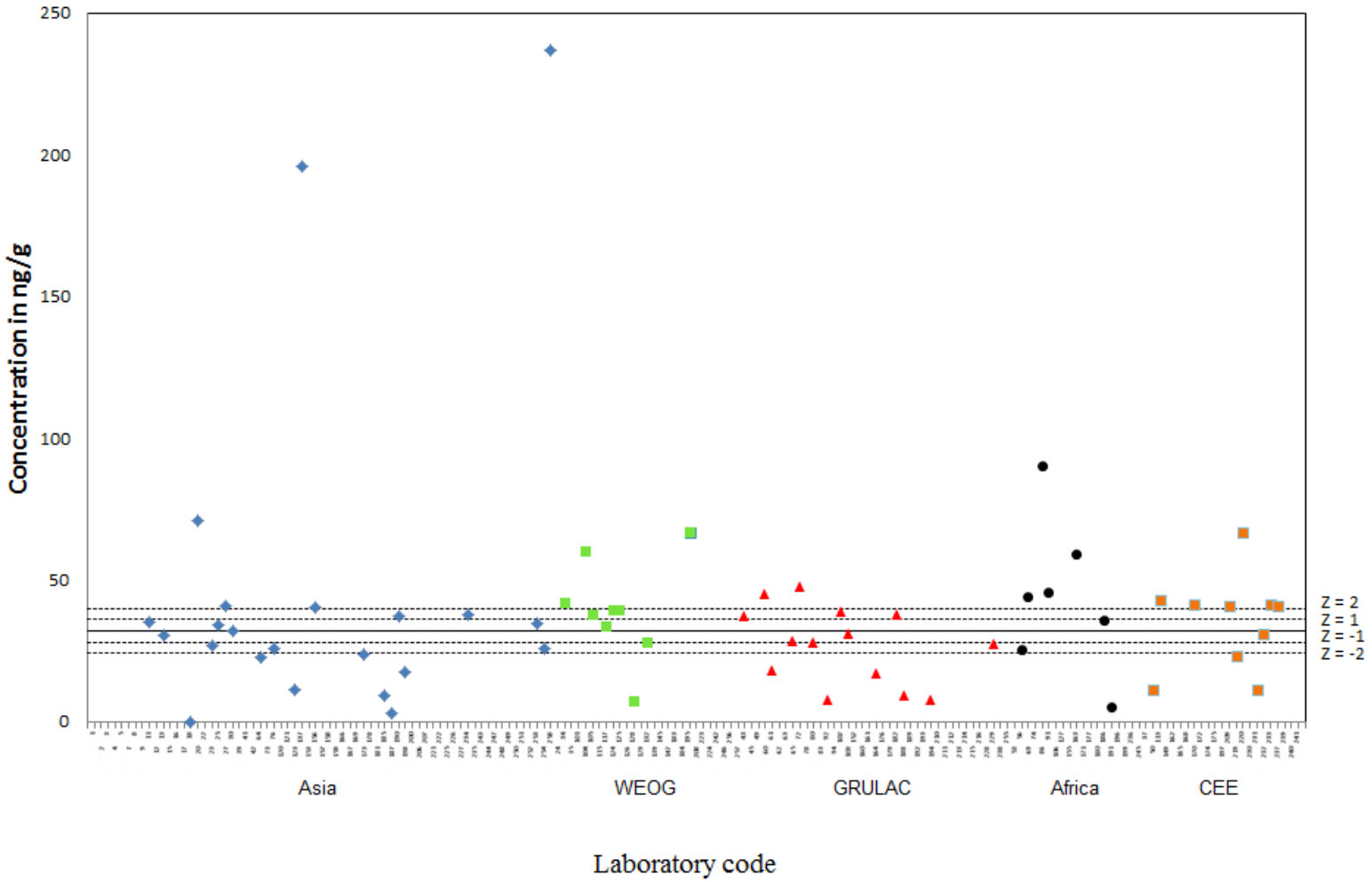
ASSESSMENT ON PERSISTENT ORGANIC POLLUTANTS – THIRD ROUND 2016/2017 – NON-DL POPS

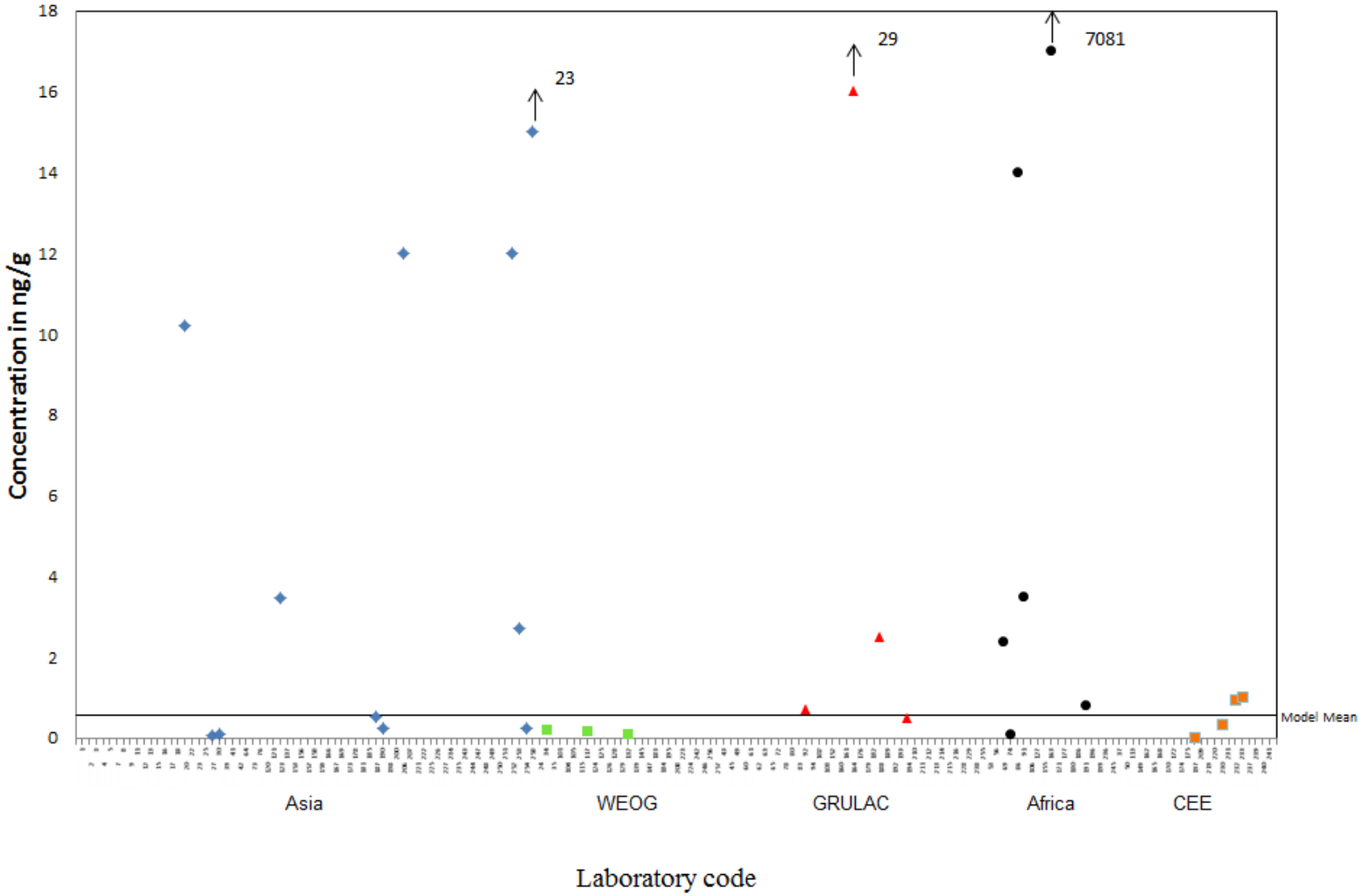
Ike van der Veen, Heidi Fiedler, Jacob de Boer



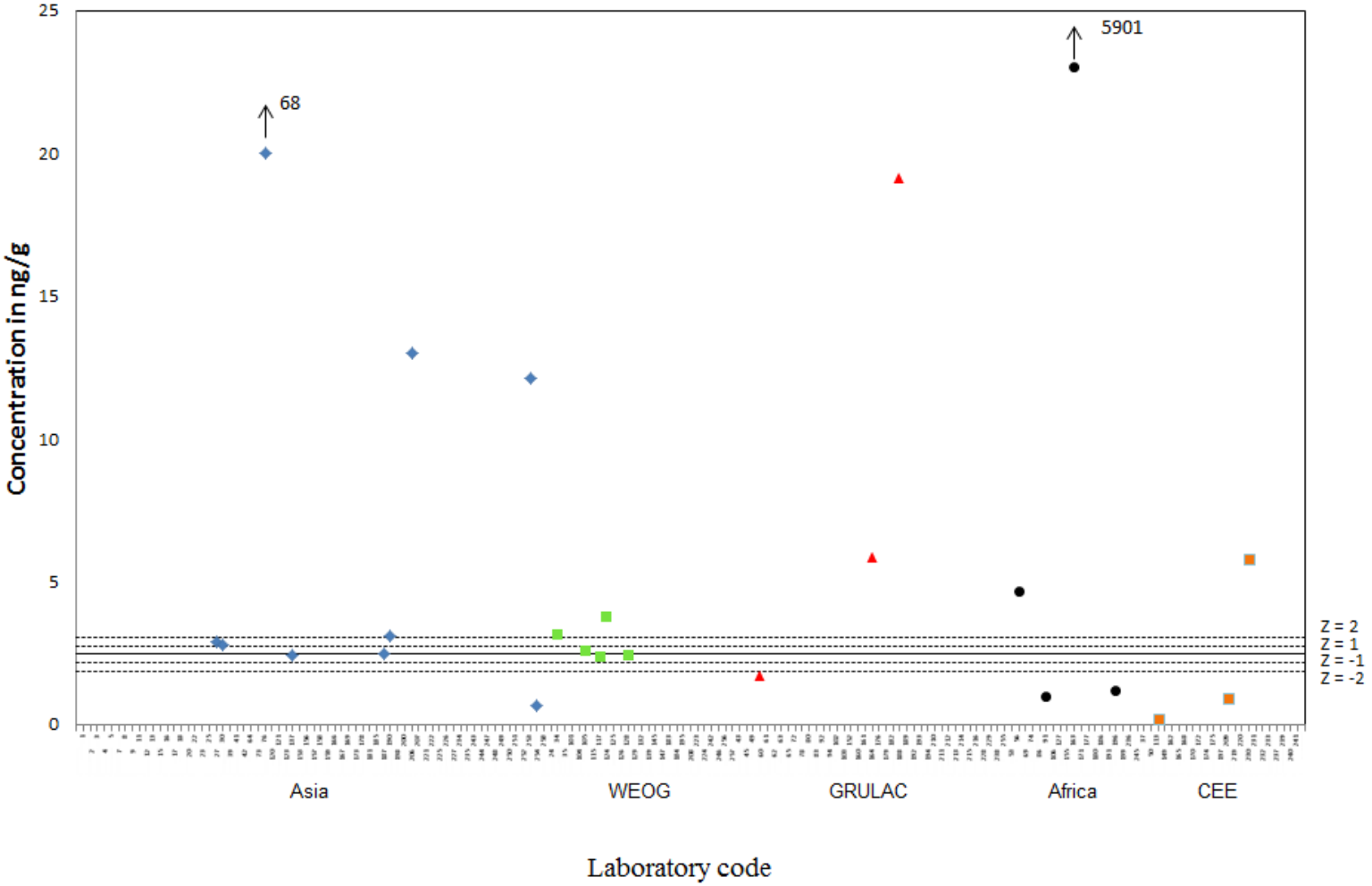
DIELDRIN TEST SOLUTION



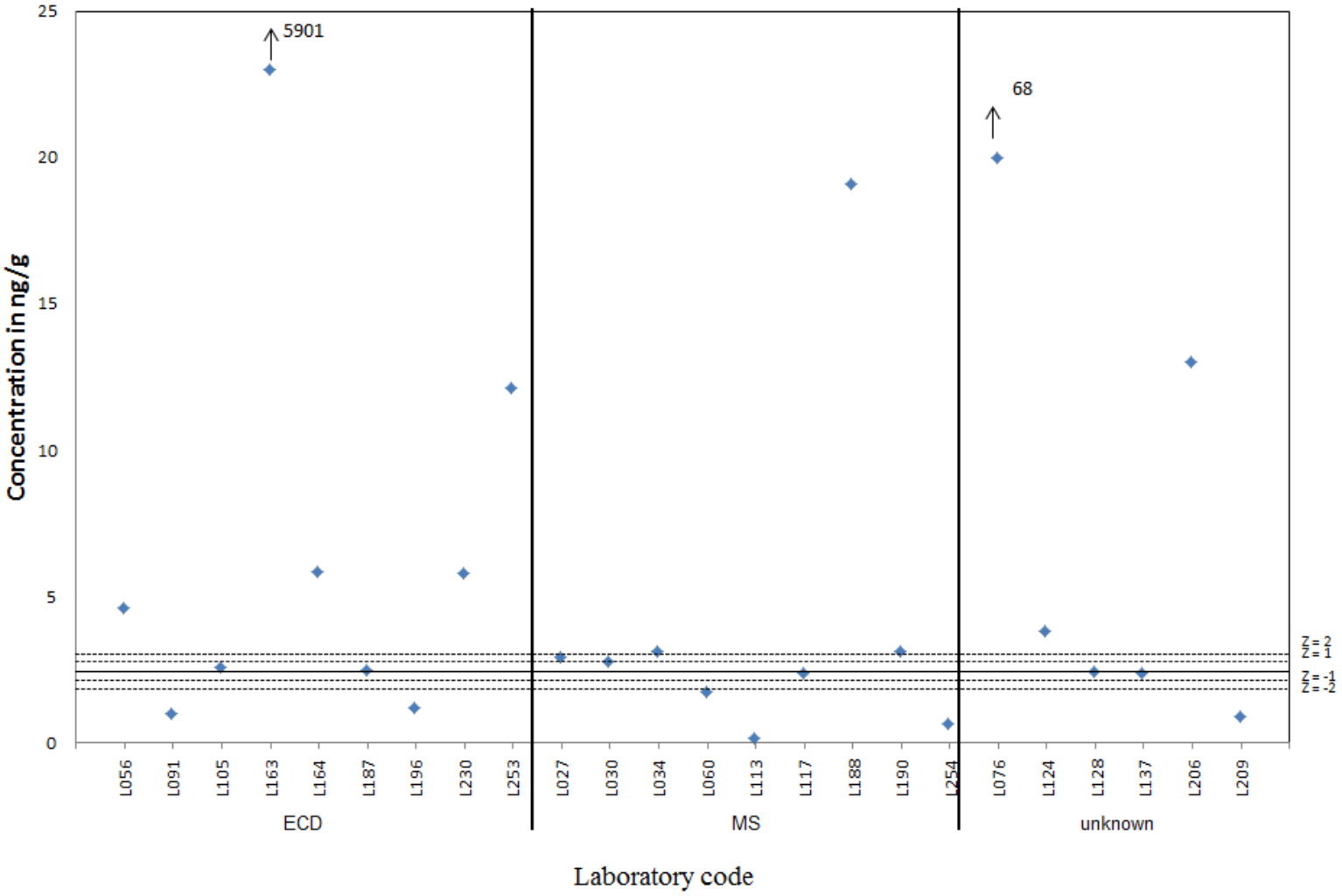
DIELDRIN SEDIMENT



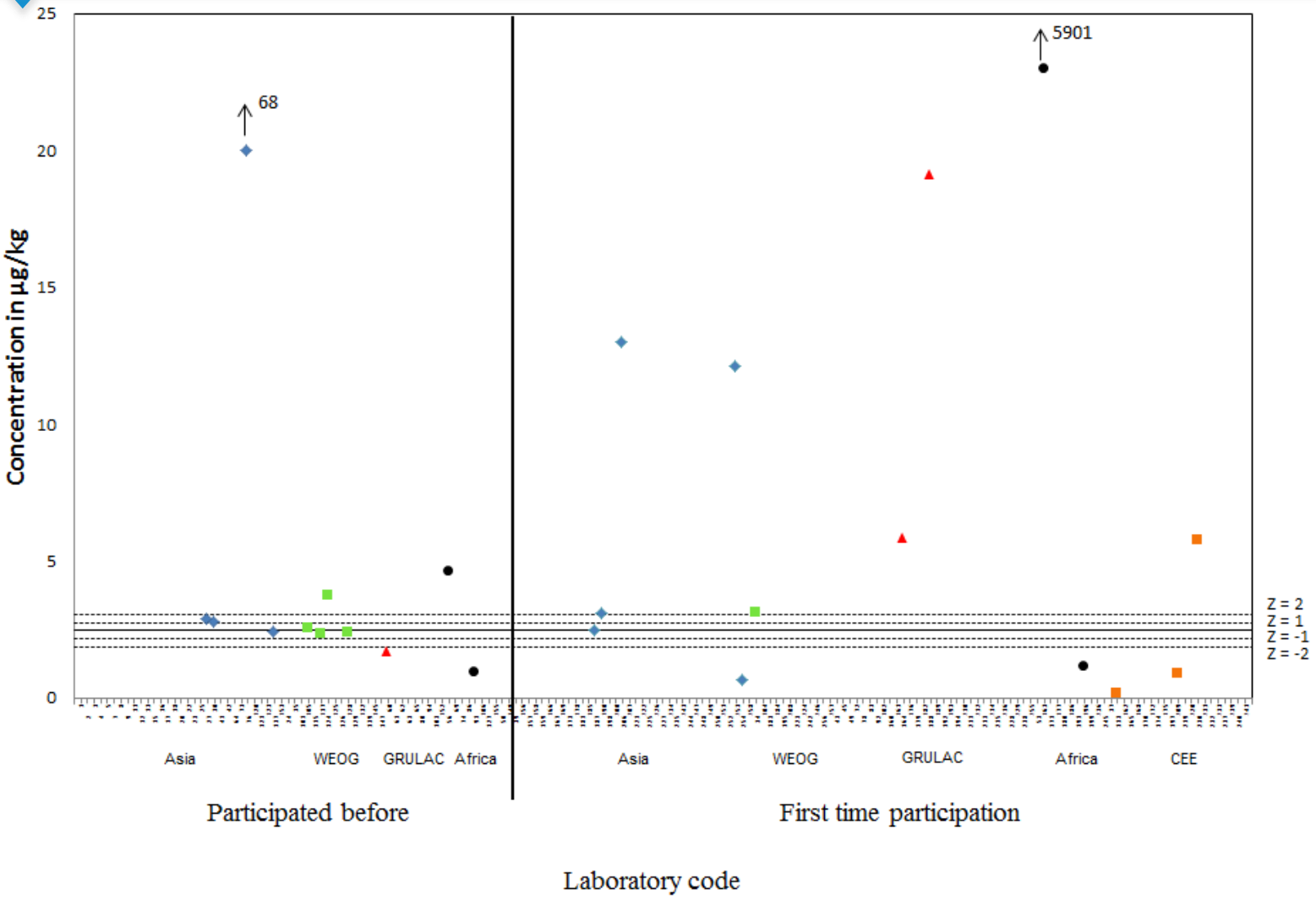
DIELDRIN FISH



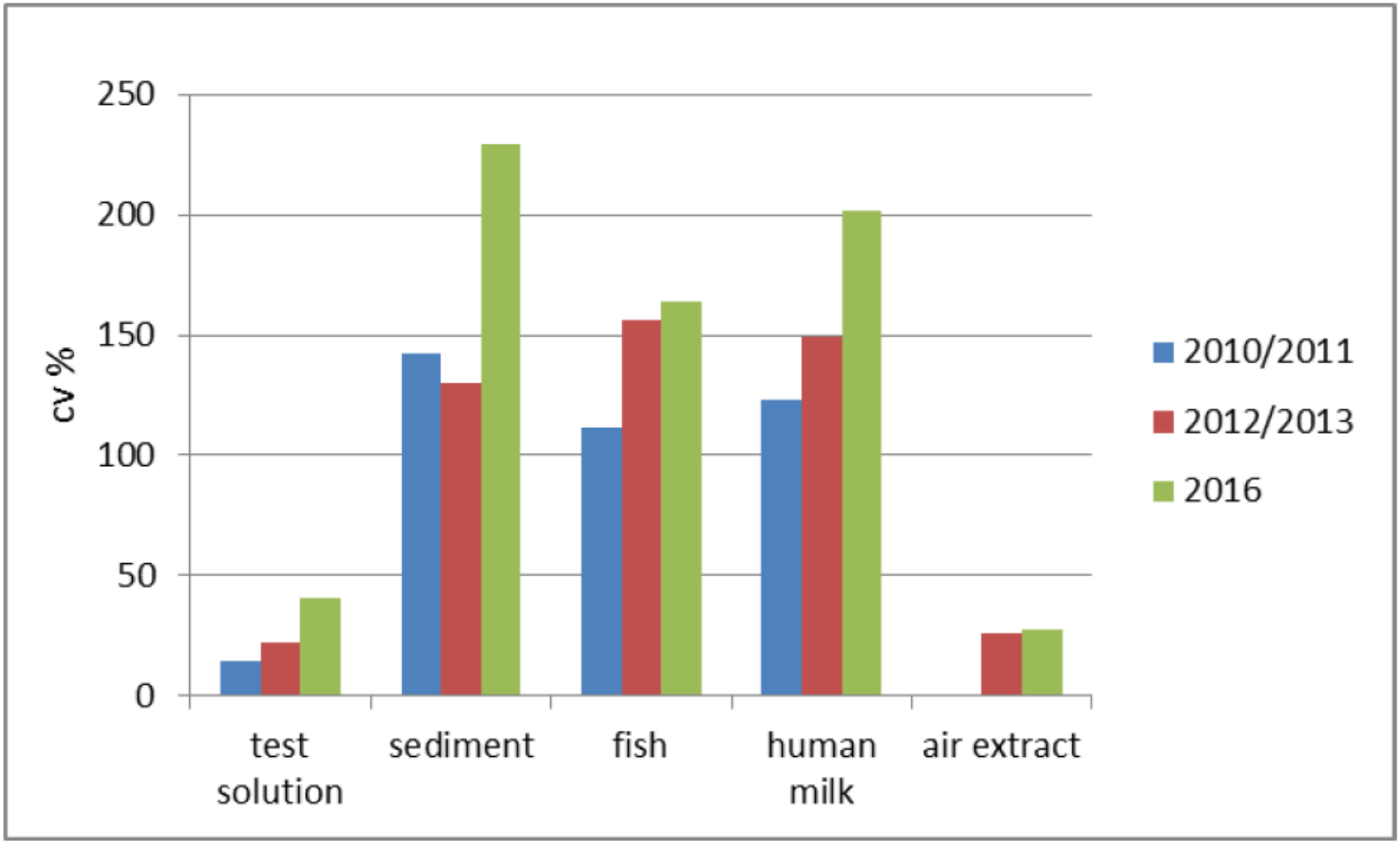
DIELDRIN FISH - METHODS



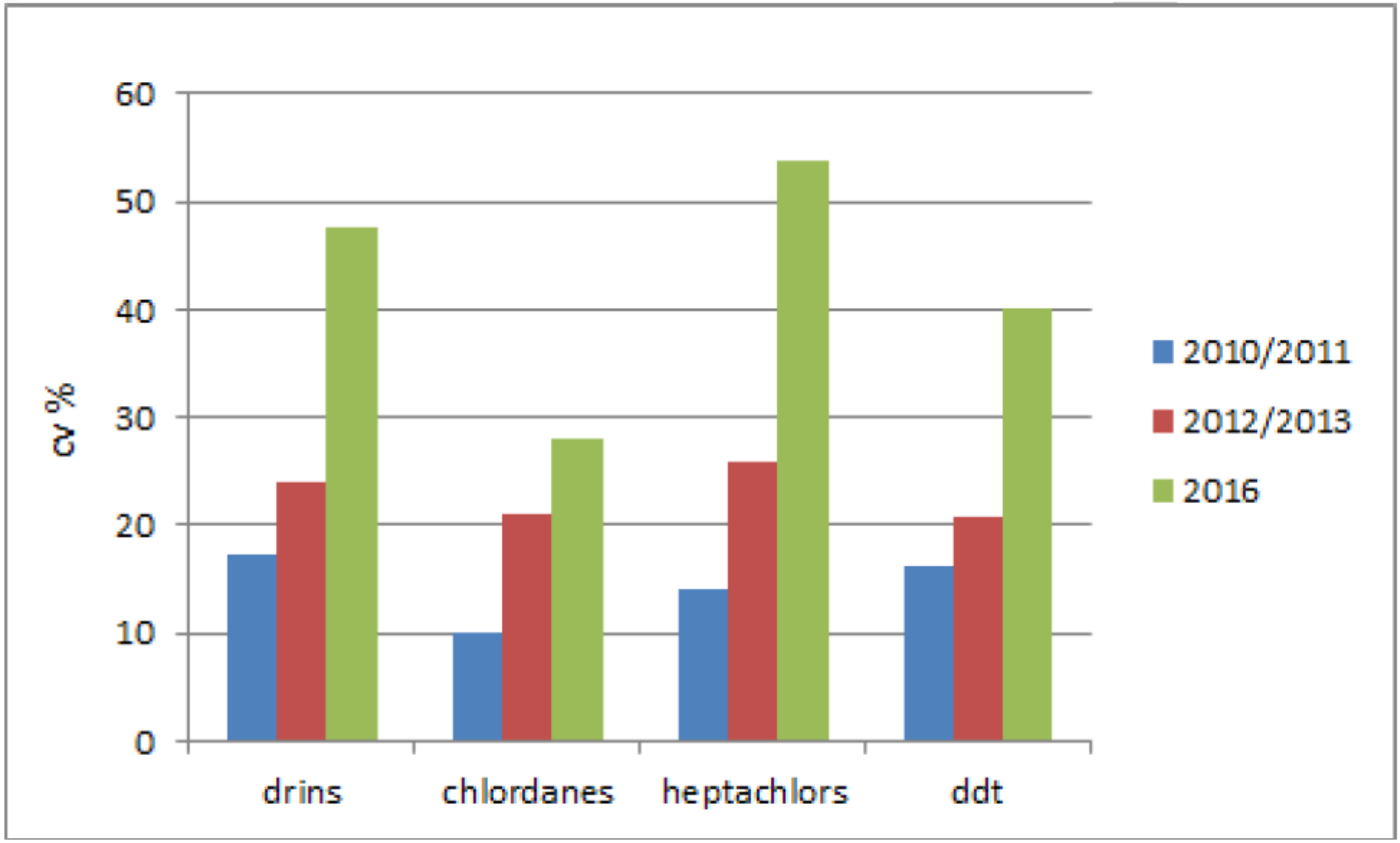
DIELDRIN IN FISH - FIRST PARTICIPATION



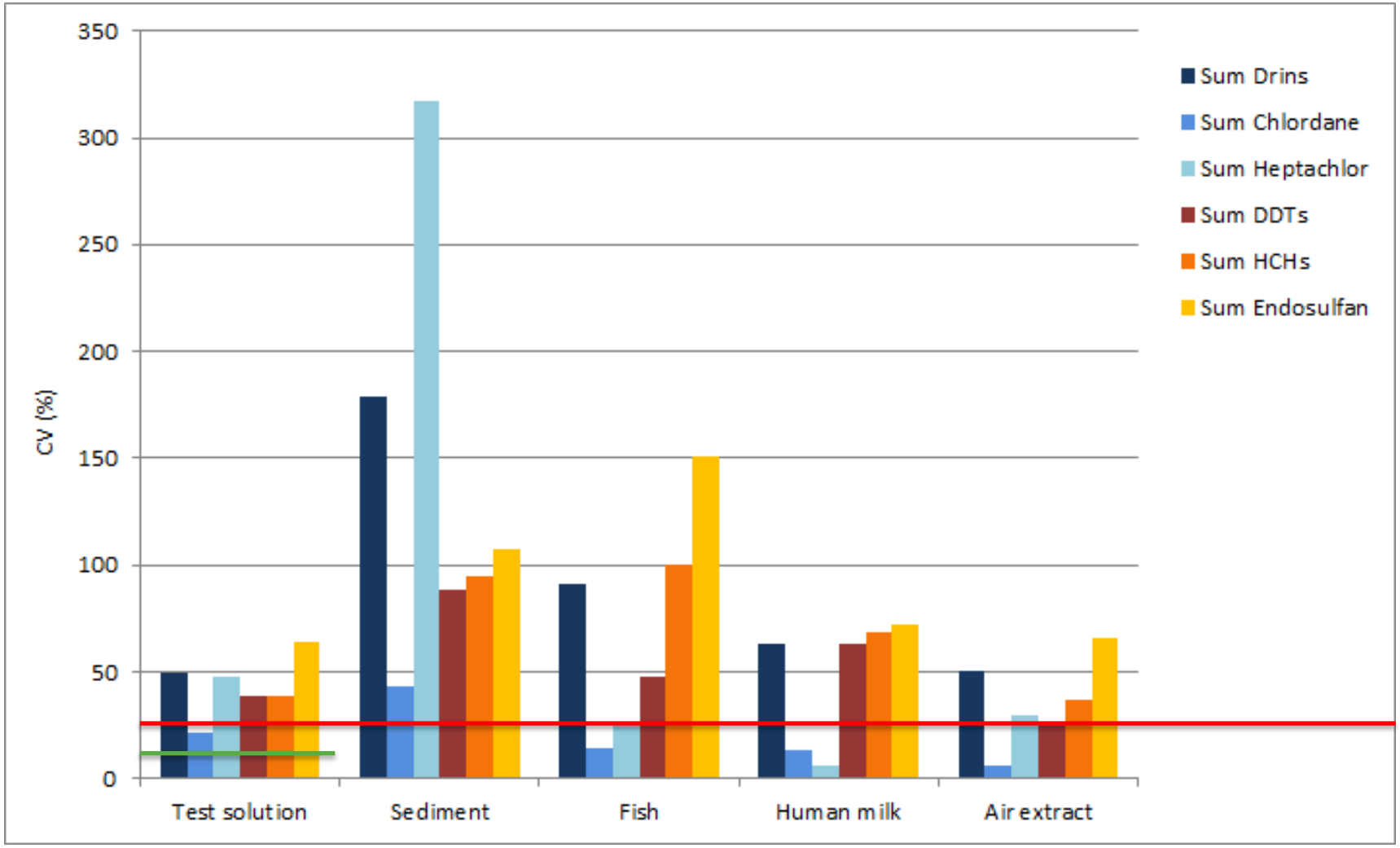
PERFORMANCE BETWEEN ILSs OCP analyses



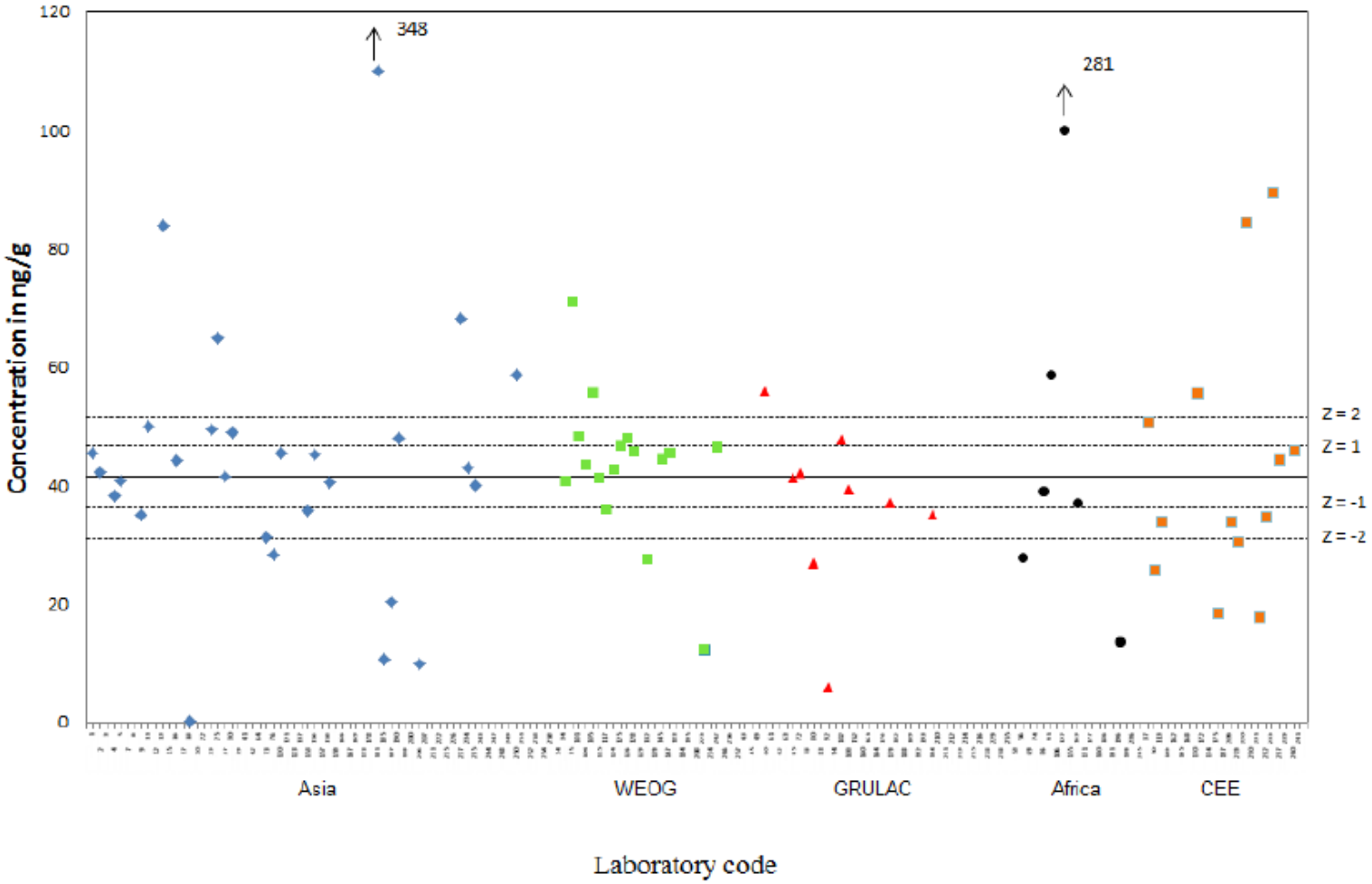
PERFORMANCE BETWEEN ILSs: OCP IN TEST SOLUTION



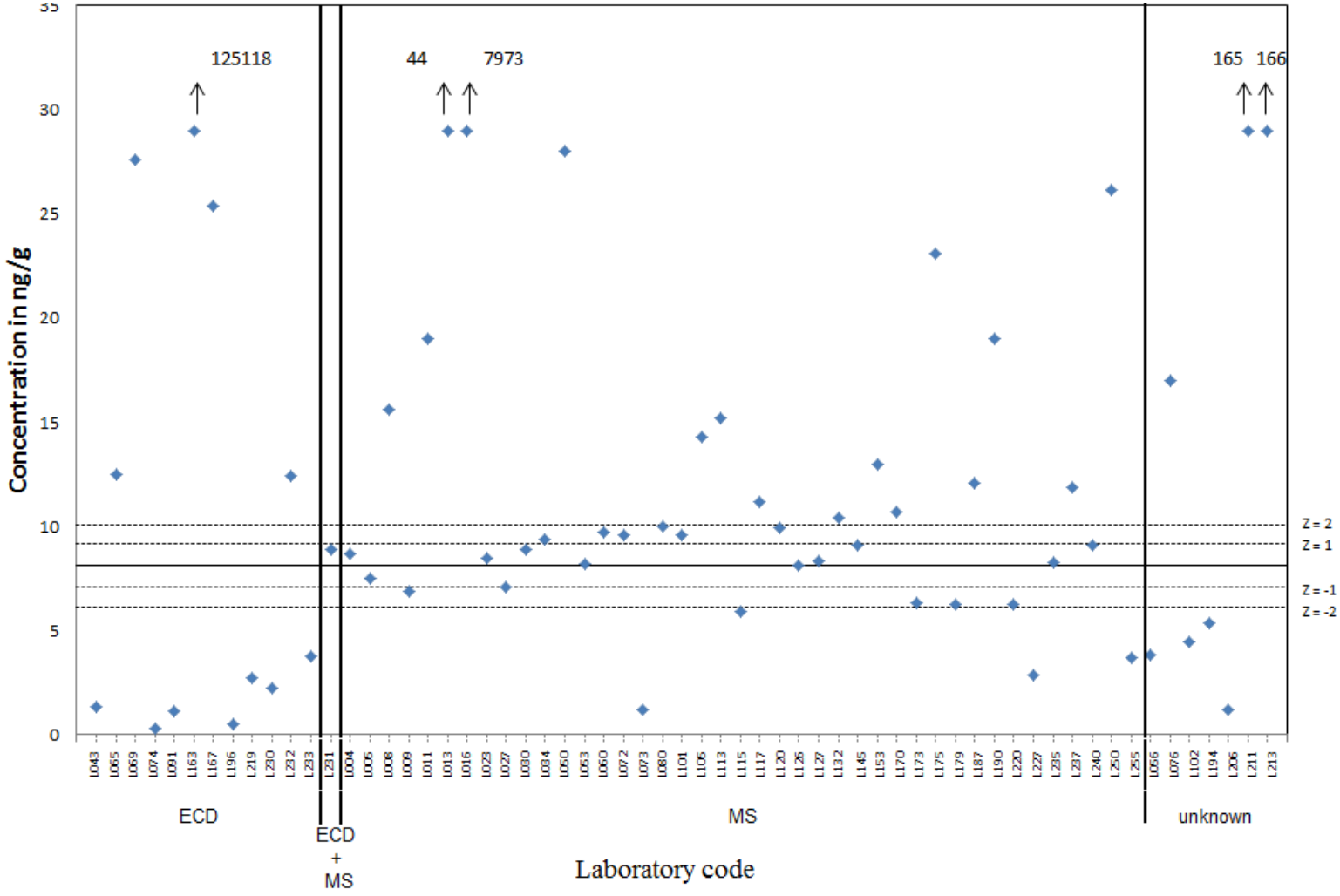
SUM OCPS - CV


350
300
250
200
150
100
50
0
CV (%)
Test solution
Sediment
Fish
Human milk
Air extract
Sum Drins
Sum Chlordane
Sum Heptachlor
Sum DDTs
Sum HCHs
Sum Endosulfan

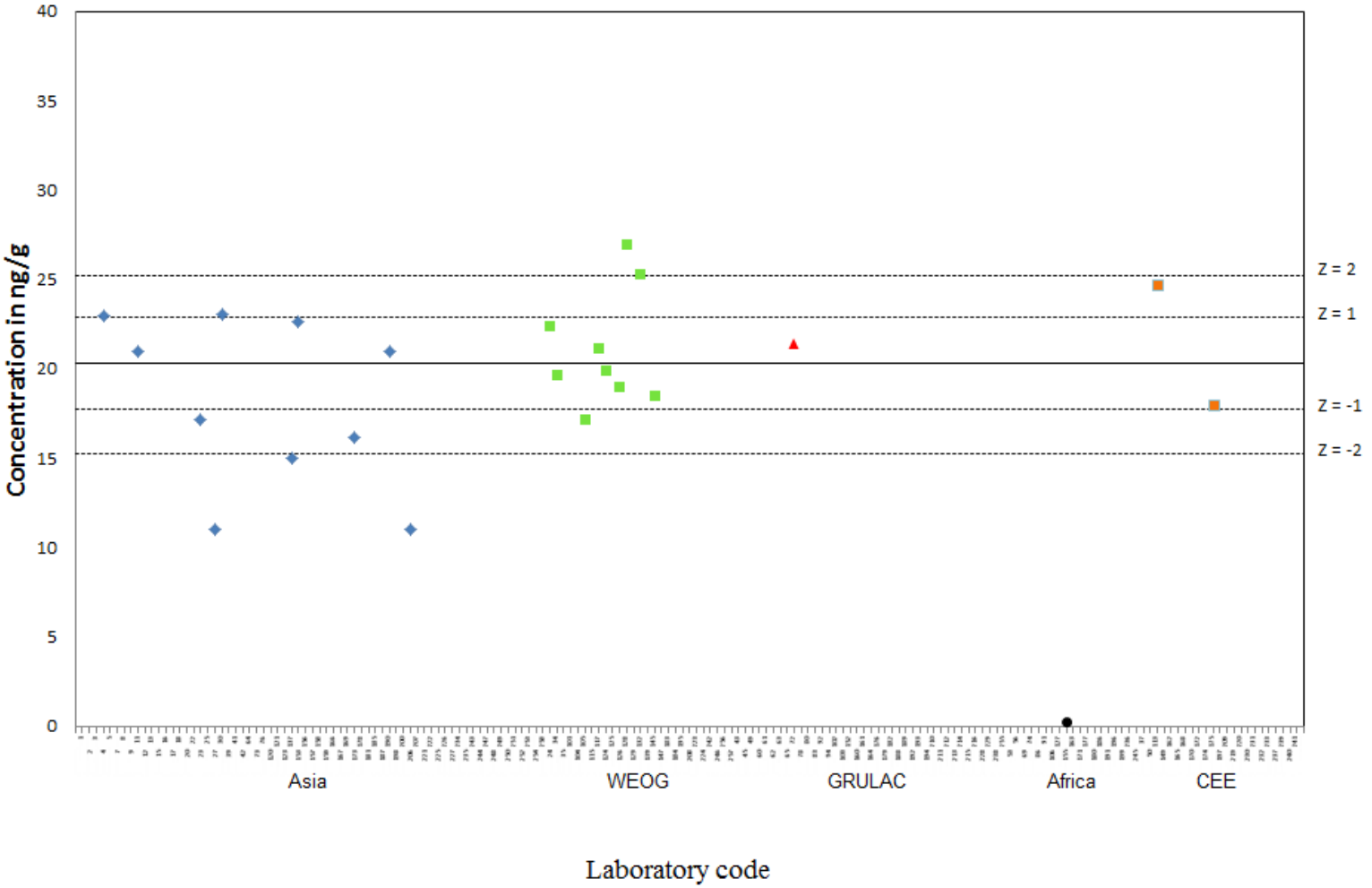
PCBS TEST SOLUTION



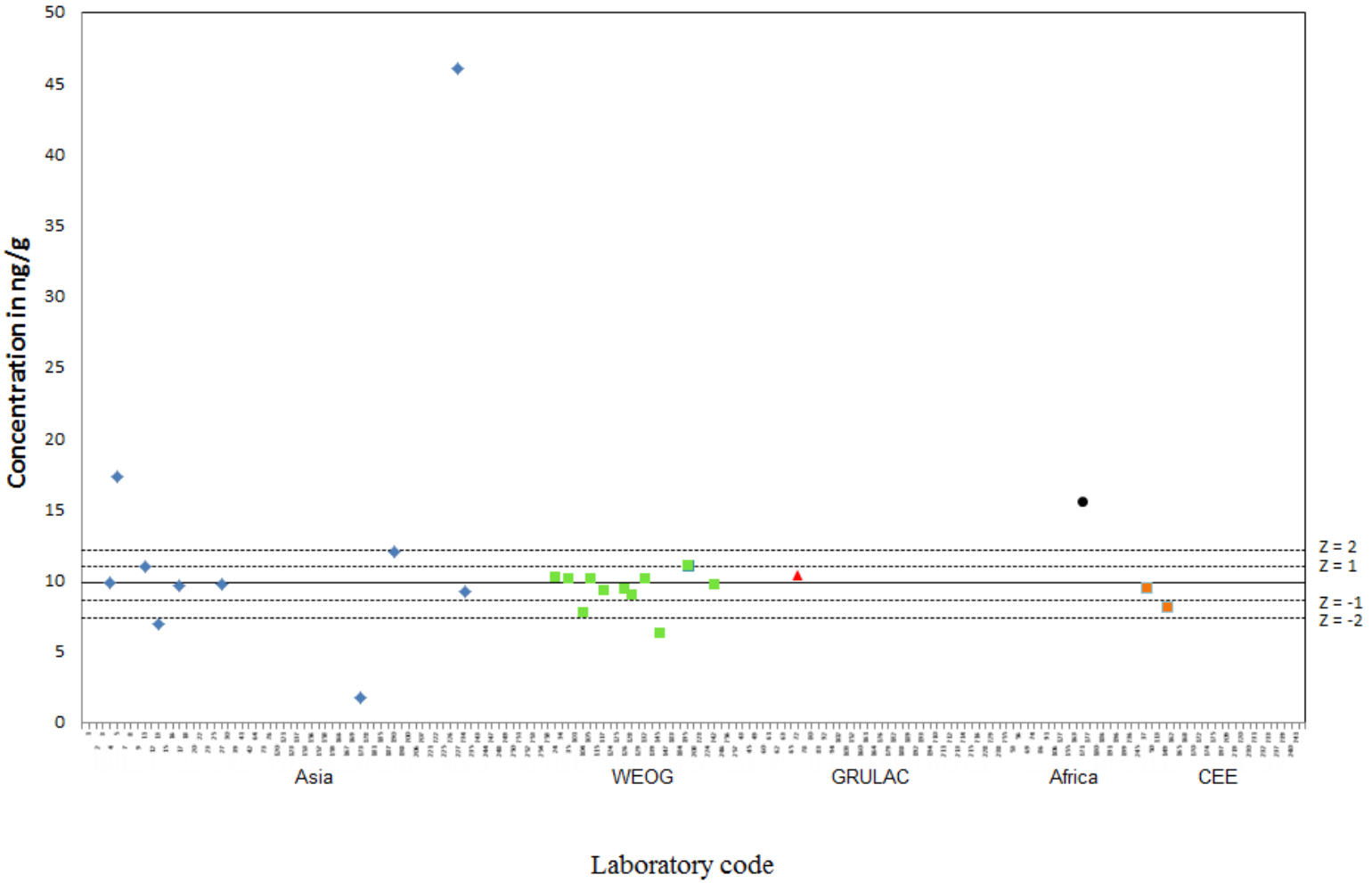
PCBS SEDIMENT



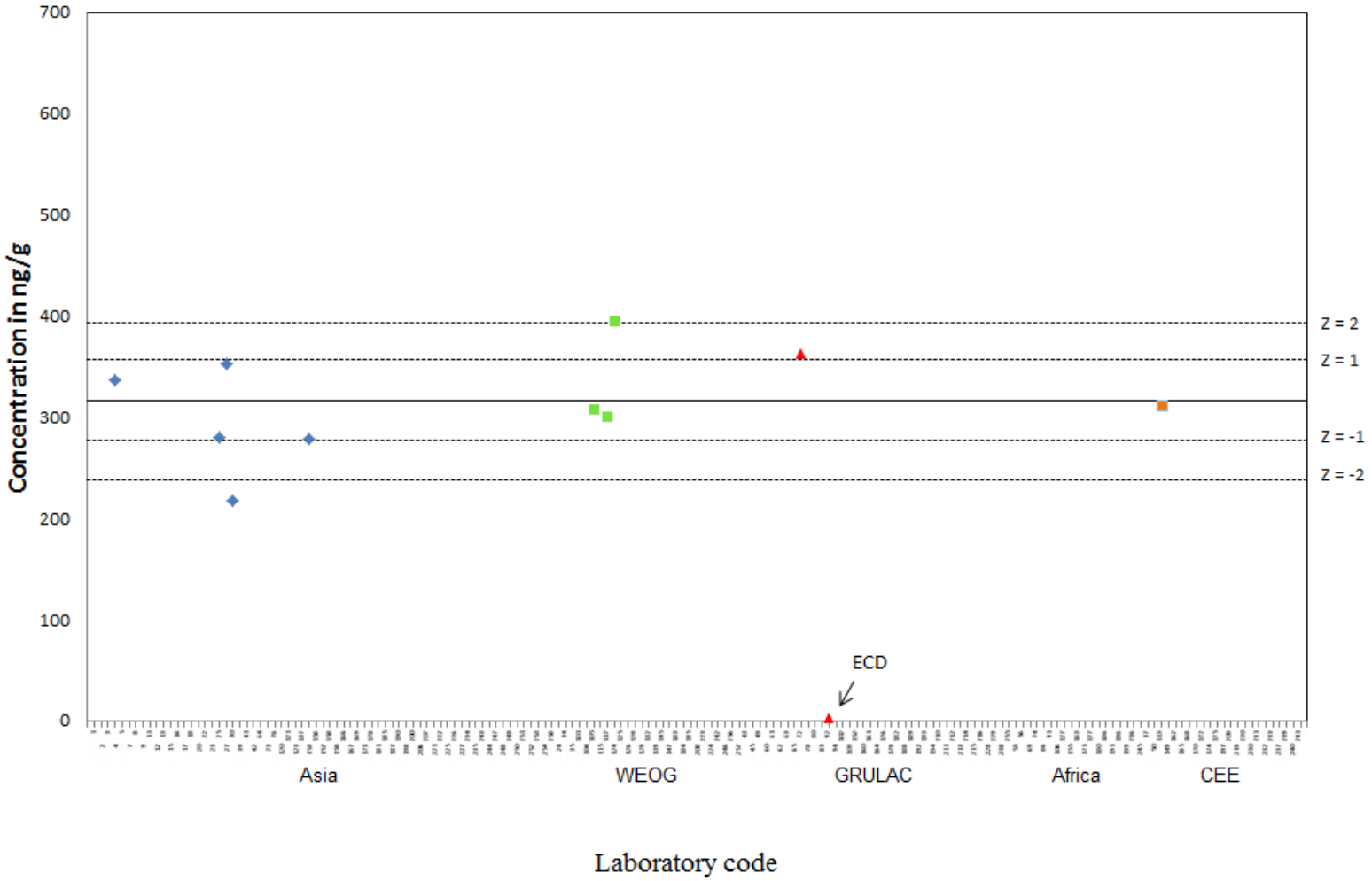
PBDE FISH


40
35
30
25
20
15
10
5
0
Concentration in ng/g
Z = 2
Z = 1
Z = -1
Z = -2
Asia
WEOG
GRULAC
Africa
CEE
Laboratory code

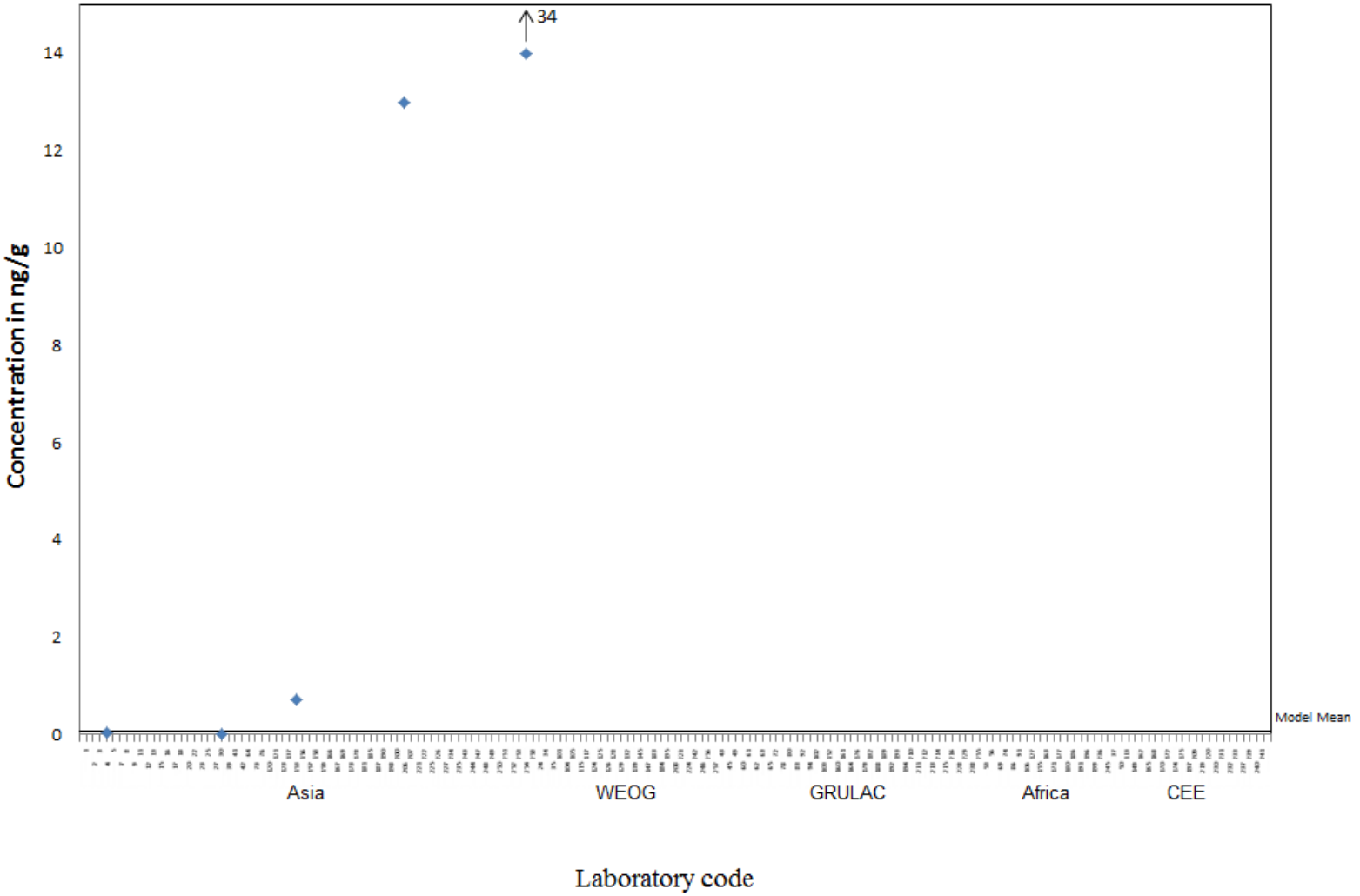
PBDE AIR


Concentration in ng/g
50
45
40
35
30
25
20
15
10
5
0
Z = 2
Z = 1
Z = -1
Z = -2
Asia
WEOG
GRULAC
Africa
CEE
Laboratory code

TOXAPHENE TEST SOLUTION



TOXAPHENE SEDIMENT



HBCD

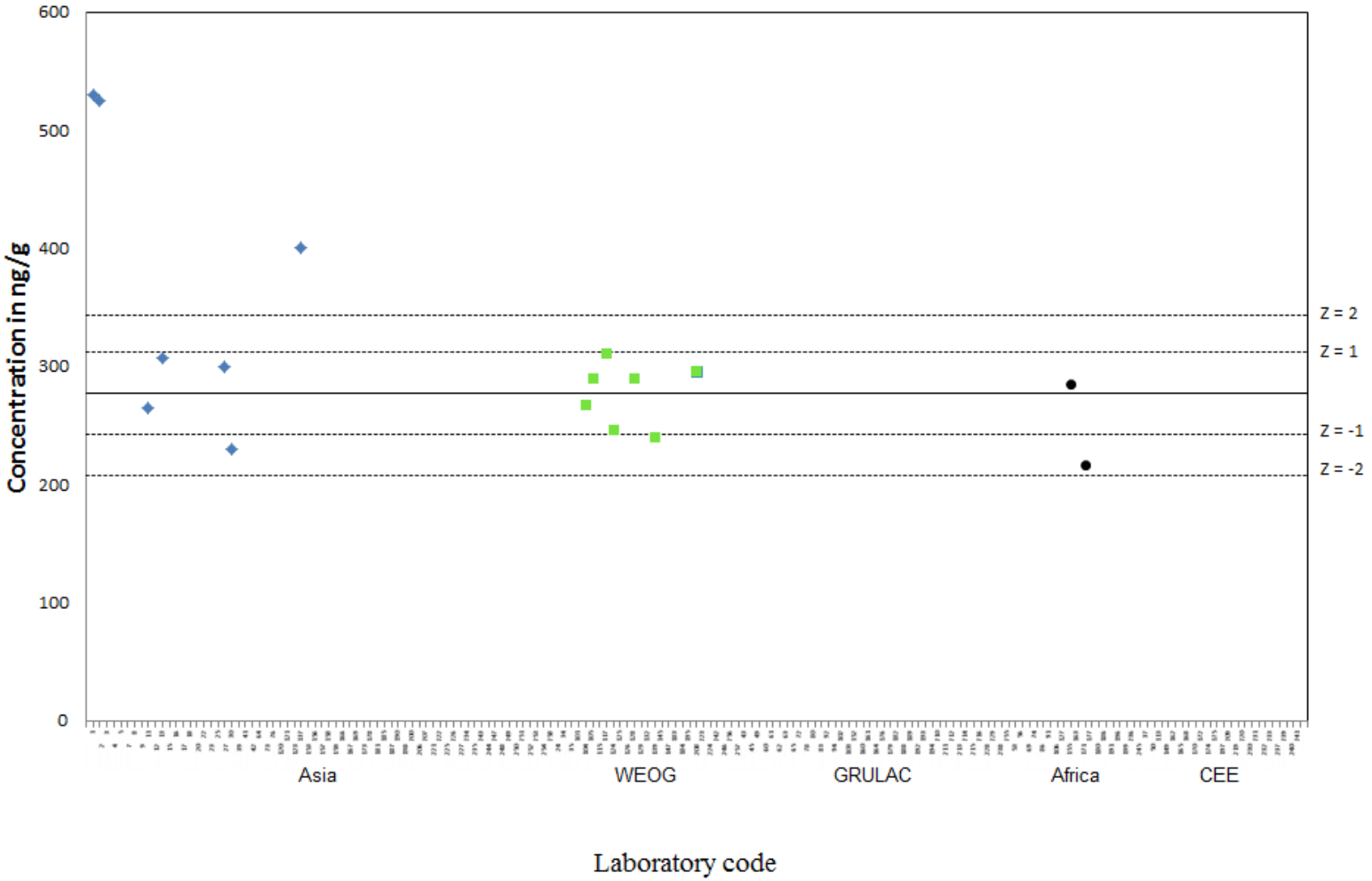
Fish: HBCD CV 21%-120%

α-HBCD: CV 21%

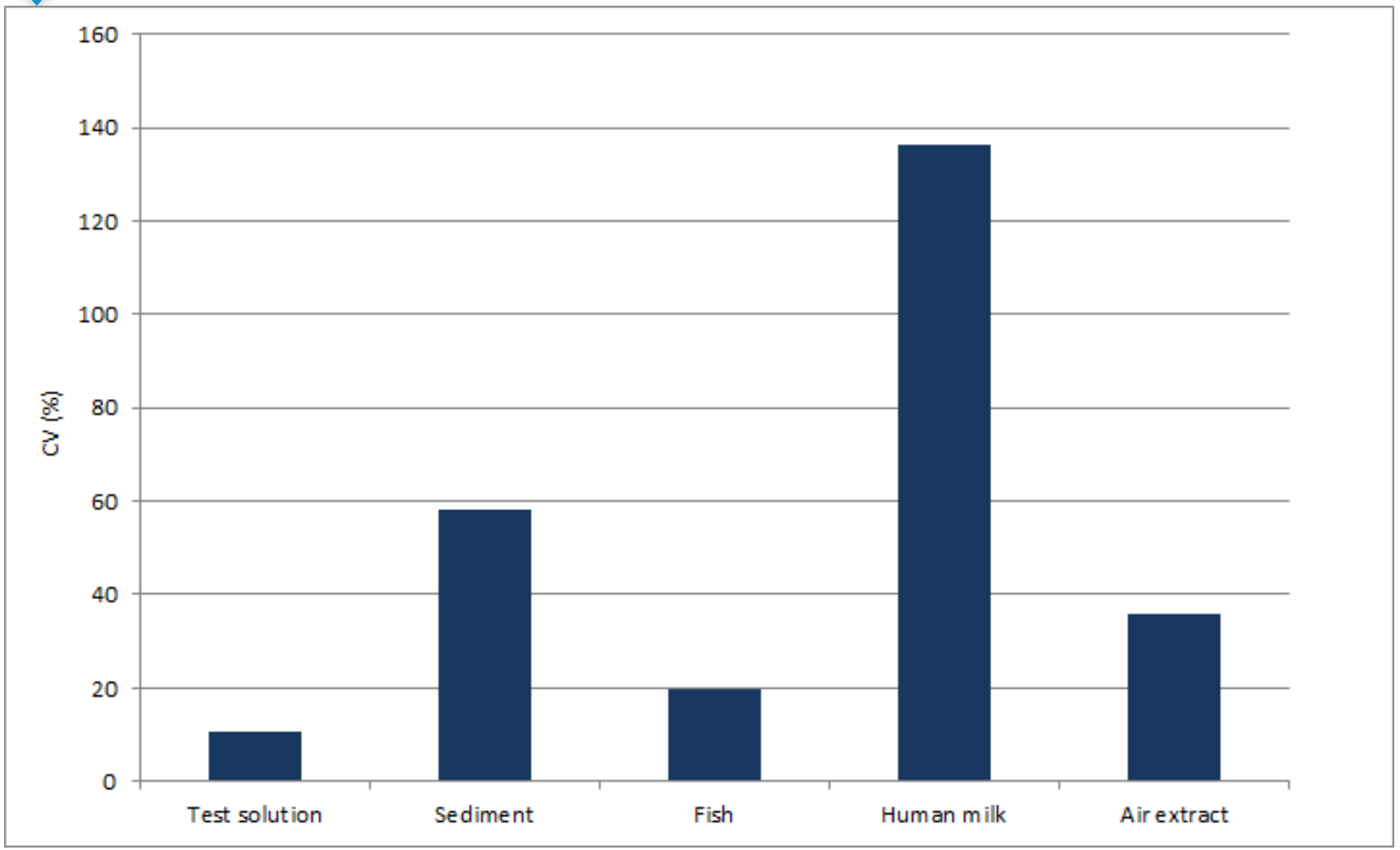
80% of the participants satisfactory z-score

Sediment: γ-HBCD: CV 36%

γ-HBCD TEST SOLUTION



CV SUM HBCD


160
140
120
100
80
60
40
20
0
CV (%)
Test solution
Sediment
Fish
Human milk
Air extract

TENTATIVE CONCLUSIONS

- Strong increase in participation
- Good results for air extracts
- Improvement needed for test solutions
- Newcomers struggle
- First time acceptable results for toxaphene
- α-HBCD in fish and γ-HBCD in sediment offer perspectives
- More daily routine is urgently needed for may labs