



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Field Test Experiments and Validation of CEN/TS 1948-4 Dioxin-like PCBs from stationary sources

– CEN/TC 264/WG 1 “Dioxins and PCBs (Emission)” –

Annex 3

Measurement data and graphs of municipal waste incinerator measurements



Secretariat:

Kommission Reinhaltung der Luft im VDI und DIN – Normenausschuss KRdL

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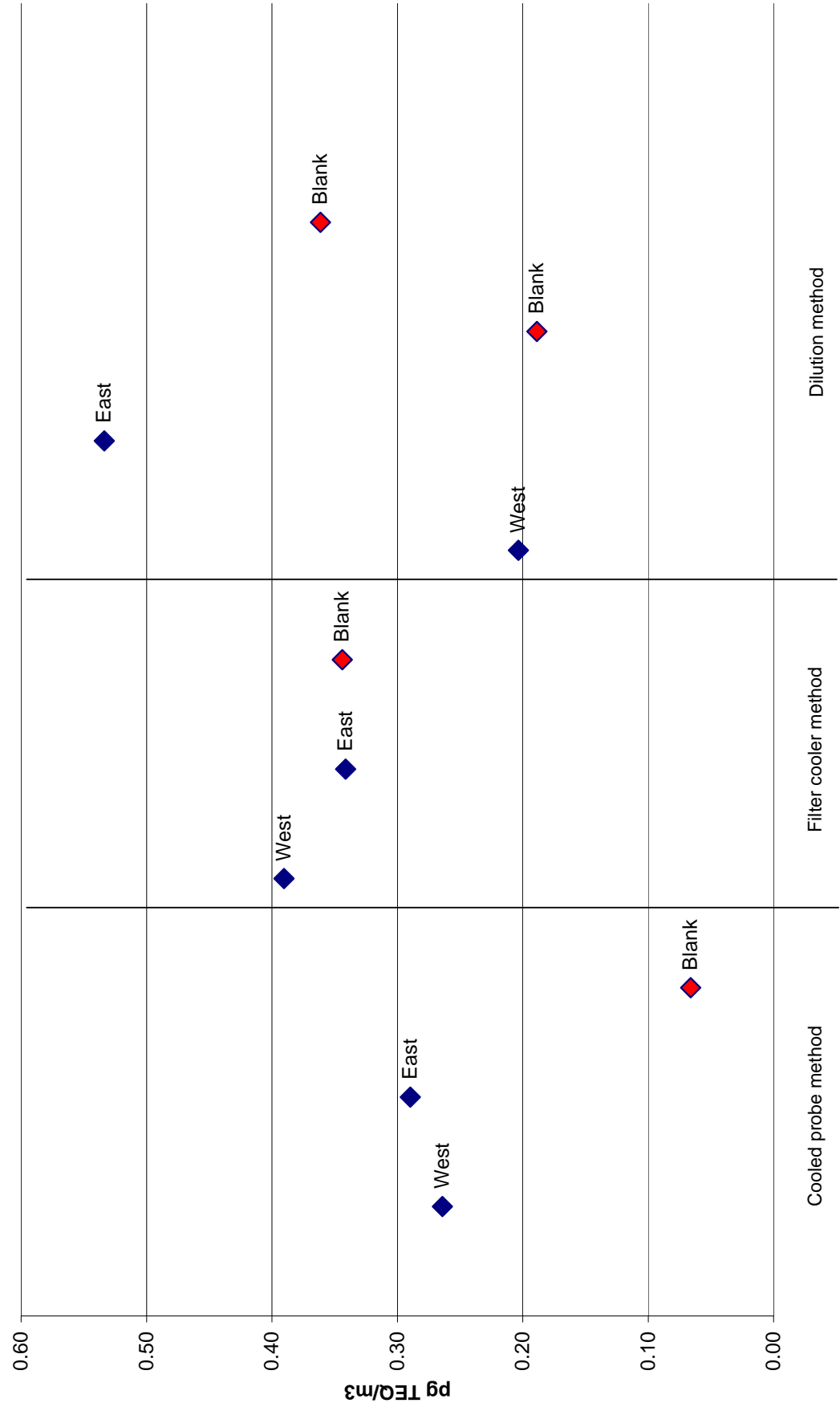
| Sample Location: Date Analysis No. | Cooled Probe | | | Filter Cooler | | | Dilution | | | Average | SD | %RSD |
|--|--------------------------|---------------------------|---------------------------|-------------------------|-------------------------|-----------------------|--------------|-----------------|------------------|---------|--------|------|
| | West | East | Blank | West | East | Blank | West | East | Blank | | | |
| 2007-06-21 640276-1-2 | 2007-06-21 640276-2-2 | 2007-06-21 640276-1-B1 | 2007-06-19 640276-1-B1 | H-07-07-0071 | H-07-07-0069 | H-07-07-0082 | 21-6 W V4 | 21-6 East V6 | Blank 19-6 V1 | | | |
| Sample Code: 11% O2 ->Vol% dry m³(ref) | 07 0388 002 | 07 0388 008 | 07 0388 013 | 14.39 4.361 6.645 | 14.39 4.731 7.209 | 9.1 5.410 5.448 | 8.90 | 4.44 | 8.90 | 4.44 | | |
| Nm³ | pg/m³ | pg/m³ | pg/m³ | pg/m³ | pg/m³ | pg/m³ | pg/m³ | pg/m³ | pg/m³ | pg/m³ | | |
| 3,3',4,4'-Tetra-CB 77 | 29.39 | 20.86 | 10.49 | 52.9 | 144.7 | n.d.(10.3) | 25.3 | 57.2 | 23.6 | 47.3 | 55.06 | 84% |
| 3,4,4',5'-Penta-CB 81 | 1.34 | 1.22 | 0.69 | 5.1 | 9.6 | 0.3 | 1.7 | 3.3 | 1.0 | 1.9 | 3.72 | 87% |
| 3,3',4,4',5'-Penta-CB 126 | 0.76 | 1.05 | 0.48 | < 3.62 | 5.8 | n.d.(3.1) | 0.8 | 2.2 | 1.1 | 2.2 | 2.11 | 102% |
| 3,3',4,4',5,5'-Hexa-CB 169 | 0.38 | 0.41 | nd | 1.1 | 2.0 | 1.5 | 0.4 | 1.8 | 0.4 | 0.8 | 1.03 | 73% |
| WHO-TEQ PCB 1 (n.d.=0) | 0.08 | 0.11 | 0.05 | 0.02 | 0.62 | 0.01 | 0.08 | 0.24 | 0.12 | 0.23 | 0.19 | 115% |
| WHO-TEQ PCB 1 (n.d.=n.d.) | 0.08 | 0.11 | 0.05 | 0.38 | 0.62 | 0.33 | 0.08 | 0.24 | 0.12 | 0.23 | 0.25 | 84% |
| 2,3,3',4,4'-Penta-CB 105 | 22.41 | 22.09 | 12.68 | 110.3 | 239.3 | n.d.(13.1) | 70.2 | 194.3 | 82.0 | 164.3 | 109.76 | 82% |
| 2,3,4,4',5'-Penta-CB 114 | 3.59 | 3.27 | 1.24 | 10.4 | 23.3 | 2.5 | 8.6 | 17.9 | 7.0 | 14.1 | 11.18 | 71% |
| 2,3',4,4',5'-Penta-CB 118 | 145.9 | 140.3 | 91.7 | 462.6 | 855.8 | n.d.(52.5) | 270.0 | 672.9 | 284.0 | 569.2 | 424.59 | 69% |
| 2',3,4,4',5'-Penta-CB 123 | 1.3 | 0.9 | 0.9 | 4.2 | 12.4 | n.d.(1.6) | 11.7 | 28.6 | 9.8 | 19.5 | 9.85 | 106% |
| 2,3,3',4,4',5'-Hexa-CB 156 | 11.0 | 9.5 | 6.1 | 28.8 | 47.1 | n.d.(8.7) | 53.1 | 177.0 | 46.9 | 94.1 | 54.42 | 115% |
| 2,3,3',4,4',5'-Hexa-CB 157 | 6.4 | 4.8 | 4.3 | 6.8 | 5.6 | n.d.(2.0) | 5.0 | 21.0 | 8.6 | 17.2 | 8.27 | 76% |
| 2,3',4,4',5,5'-Hexa-CB 167 | 8.1 | 6.8 | 5.9 | 12.3 | 21.0 | n.d.(6.3) | 22.0 | 72.4 | 22.3 | 44.6 | 23.77 | 104% |
| 2,3,3',4,4',5,5'-Hepta-CB 189 | 3.7 | 3.1 | 2.4 | 3.5 | 10.0 | n.d.(1.7) | 6.0 | 24.2 | 7.0 | 14.1 | 8.44 | 97% |
| WHO-TEQ PCB 2 (n.d.=0) | 0.03 | 0.03 | 0.02 | 0.081 | 0.150 | 0.001 | 0.069 | 0.201 | 0.070 | 0.140 | 0.09 | 75% |
| WHO-TEQ PCB 2 (n.d.=n.d.) | 0.03 | 0.03 | 0.02 | 0.081 | 0.150 | 0.014 | 0.069 | 0.201 | 0.070 | 0.140 | 0.09 | 75% |
| WHO-TEQ PCB Total (nd =0) | 0.11 | 0.14 | 0.07 | 0.098 | 0.767 | 0.016 | 0.152 | 0.441 | 0.186 | 0.374 | 0.28 | 95% |
| WHO-TEQ PCB Total (nd =nd) | 0.11 | 0.14 | 0.07 | 0.460 | 0.767 | 0.344 | 0.152 | 0.441 | 0.186 | 0.374 | 0.34 | 75% |
| PCB #28 | ng/m³ | ng/m³ | ng/m³ | ng/m³ | ng/m³ | ng/m³ | ng/m³ | ng/m³ | ng/m³ | ng/m³ | | |
| PCB #52 | 0.64 | 0.49 | 0.31 | 3.54 | 8.58 | 0.76 | 1.14 | 2.56 | 1.12 | 2.24 | 2.82 | 108% |
| PCB #101 | 0.57 | 0.42 | 0.22 | 2.07 | 4.18 | 0.47 | 0.74 | 3.58 | 0.33 | 0.66 | 1.93 | 85% |
| PCB #138 | 0.41 | 0.30 | 0.17 | 1.10 | 1.33 | n.d.(0.1) | 0.38 | 2.39 | 0.25 | 0.50 | 0.98 | 82% |
| PCB #153 | 0.18 | 0.16 | 0.15 | 0.30 | 0.40 | n.d.(0.1) | 0.28 | 1.61 | 0.16 | 0.32 | 0.49 | 114% |
| PCB #180 | 0.28 | 0.25 | 0.07 | 0.61 | 0.81 | n.d.(0.2) | 0.77 | 3.02 | 1.24 | 2.49 | 0.95 | 109% |
| Total | 0.08 | 0.10 | 0.04 | 0.06 | 0.20 | n.d.(0.1) | 0.25 | 1.04 | 0.40 | 0.81 | 0.29 | 131% |
| | 2.15 | 1.72 | 0.97 | 7.68 | 15.50 | 1.23 | 3.56 | 14.19 | 3.50 | 7.02 | 7.46 | 82% |
| Hexachlorbenzene | 30.00 | 29.70 | nd | 38.23 | 37.59 | 0.15 | 18.80 | 23.08 | 0.37 | 0.75 | 29.57 | 26% |

| Sample Location: Date Analysis No. Sample Code: 11% O2 -> Vol% dry m³(ref) Nm³ | Cooled Probe | | | Filter Cooler | | | Dilution | | | |
|--|--------------|-------------|-------------|---------------|--------------|--------------|-----------|-----------|---------|---------|
| | West | East | Blank | West | East | Blank | West | East | Blank | |
| | 2007-06-22 | 2007-06-22 | 2007-06-22 | H-07-07-0073 | H-07-07-0072 | H-07-07-0083 | 22-6 West | 22-6 East | Blank | |
| | 640276-1-3 | 640276-2-3 | 640276-2-B2 | | | | V7 | V8 | 22-6 FB | |
| | 07 0388 003 | 07 0388 009 | 07 0388 014 | | | | | | V9 | |
| | 1.031 | 1.031 | 1.031 | 11.3 | 11.3 | 9.1 | | | | |
| | 11.30 | 11.30 | 11.30 | 7.388 | 7.923 | 7.656 | | | | |
| | 6.35 | 6.44 | 9.00 | 7.626 | 8.178 | 5.448 | | | | |
| | pg/m³ | pg/m³ | pg/m³ | pg/m³ | pg/m³ | pg/m³ | pg/m³ | pg/m³ | pg/m³ | |
| Unit | nd | nd | nd | 0.22 | < 0.14 | n.d.(0.2) | 0.02 | 0.53 | 0.03 | Average |
| 2.3.7.8-Tetra-CDD | nd | nd | nd | 0.75 | 0.60 | n.d.(0.3) | 0.18 | 1.13 | 0.06 | SD |
| 1.2.3.7.8-Penta-CDD | nd | nd | nd | 0.76 | 0.56 | n.d.(0.3) | 0.21 | 1.93 | 0.14 | 0.26 |
| 1.2.3.4.7.8-Hexa-CDD | nd | nd | nd | 1.04 | 0.58 | n.d.(0.2) | 0.81 | 3.67 | 0.58 | 0.67 |
| 1.2.3.6.7.8-Hexa-CDD | nd | nd | nd | 0.75 | 0.38 | n.d.(0.2) | 0.52 | 2.23 | 0.40 | 0.87 |
| 1.2.3.7.8.9-Hexa-CDD | nd | 0.37 | nd | 3.60 | 2.42 | -0.41 | 5.83 | 30.17 | 2.96 | 0.87 |
| 1.2.3.4.6.7.8-Hepta-CDD | 1.29 | 1.37 | 0.91 | 4.19 | 2.62 | -0.97 | 8.73 | 52.58 | 6.83 | 1.53 |
| OCDD | nd | nd | nd | 1.68 | 2.18 | n.d.(0.2) | 1.35 | 3.97 | 0.57 | 0.97 |
| 2.3.7.8-Tetra-CDF | nd | nd | nd | 2.58 | 3.13 | n.d.(0.2) | 0.49 | 3.77 | 0.35 | 11.80 |
| 1.2.3.7.8-Penta-CDF | nd | nd | nd | 3.89 | 2.46 | n.d.(0.1) | 0.73 | 4.00 | 0.17 | 2.30 |
| 2.3.4.7.8-Penta-CDF | nd | nd | nd | 4.71 | 2.61 | n.d.(0.2) | 0.75 | 4.53 | 0.28 | 1.17 |
| 1.2.3.4.7.8-Hexa-CDF | nd | nd | nd | 2.92 | 2.22 | n.d.(0.1) | 0.78 | 4.28 | 0.51 | 2.49 |
| 1.2.3.6.7.8-Hexa-CDF | nd | nd | nd | 1.93 | 0.89 | n.d.(0.2) | 1.32 | 3.14 | 0.41 | 2.77 |
| 1.2.3.7.8.9-Hexa-CDF | nd | nd | nd | 3.75 | 1.85 | n.d.(0.2) | 0.04 | 0.26 | 0.03 | 2.49 |
| 2.3.4.6.7.8-Hexa-CDF | 0.37 | 0.32 | nd | 5.72 | 3.48 | 0.48 | 4.28 | 13.28 | 1.83 | 1.42 |
| 1.2.3.4.6.7.8-Hepta-CDF | nd | nd | nd | 1.26 | 0.78 | n.d.(0.4) | 0.59 | 1.48 | 0.18 | 1.53 |
| 1.2.3.4.7.8.9-Hepta-CDF | nd | 0.94 | 0.93 | 3.06 | 1.34 | n.d.(0.6) | 3.93 | 5.45 | 1.31 | 1.86 |
| OCDF | nd | nd | nd | | | | | | | 2.95 |
| I-TEQ (n.d.=0) | 0.0050 | 0.01 | 0.0018 | 4.53 | 2.89 | 0.00 | 1.20 | 6.19 | 0.51 | 2.47 |
| I-TEQ (n.d.=n.d.) | 0.56 | 0.56 | 0.56 | 4.53 | 3.02 | 0.58 | 1.20 | 6.19 | 0.51 | 2.68 |
| | | | | | | | | | | 2.53 |
| | | | | | | | | | | 2.33 |
| | | | | | | | | | | 102% |
| | | | | | | | | | | 87% |

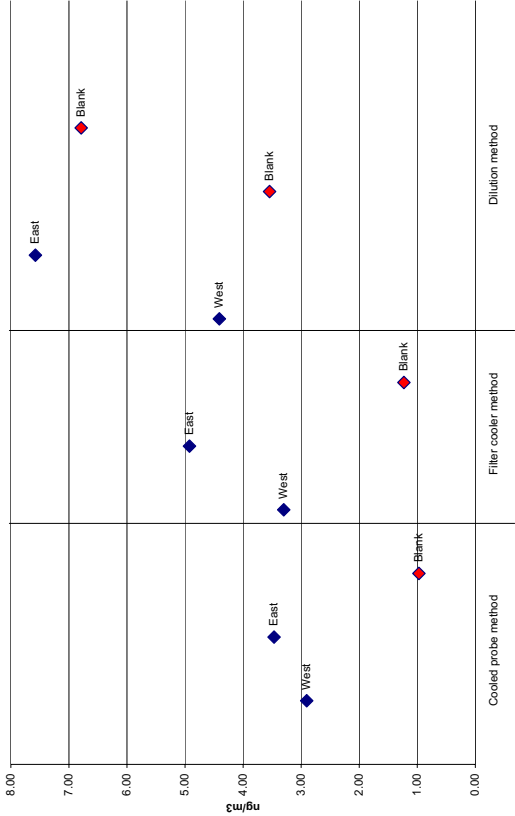
| Sample Location: Date Analysis No. Sample Code: 11% O2 -> Vol% dry m³(ref) Nm³ | Cooled Probe | | | Filter Cooler | | Dilution | | | | | |
|--|---|---|--|--|------------------------|-----------------------|------------------|------------------|-------------------|-------------------|--------|
| | West | East | Blank | West | East | Blank | West | East | Blank | Blank | |
| | 2007-06-25 640276-1-5 07 0388 005 | 2007-06-25 640276-2-5 07 0388 011 | 2007-06-25 640276-1-B3 07 0388 015 | H-07-07-0078 H-07-07-0077 H-07-07-0084 | Blank | Blank | 25-6 West V14 | 25-6 East V12 | 25-6 Blanc V17 | 25-6 Blanc V17 | |
| | 0.853 9.27 8.31 | 0.853 9.27 8.50 | 0.853 9.27 9.00 | 9.27 6.370 5.425 | 9.27 6.063 5.164 | 9.1 6.216 5.448 | 6.92 | 3.78 | 6.92 | 3.78 | |
| Unit | pg/m³ | pg/m³ | pg/m³ | pg/m³ | pg/m³ | pg/m³ | pg/m³ | pg/m³ | pg/m³ | pg/m³ | %RSD |
| 2.3.7.8-Tetra-CDD | nd | 0.27 | nd | 0.24 | 1.73 | n.d.(0.2) | 0.49 | 0.62 | 0.01 | 0.01 | 0.67 |
| 1.2.3.7.8-Penta-CDD | nd | 0.45 | nd | 0.83 | 5.80 | n.d.(0.3) | 0.15 | 6.88 | 0.02 | 0.04 | 2.82 |
| 1.2.3.4.7.8-Hexa-CDD | nd | 0.28 | nd | 1.04 | 4.58 | n.d.(0.4) | 0.59 | 14.56 | 0.76 | 1.38 | 4.21 |
| 1.2.3.6.7.8-Hexa-CDD | nd | 0.83 | nd | 1.31 | 7.10 | n.d.(0.3) | 0.67 | 31.12 | 1.56 | 2.86 | 8.20 |
| 1.2.3.7.8.9-Hexa-CDD | nd | 0.35 | nd | 0.85 | 4.36 | n.d.(0.2) | 0.69 | 16.89 | 2.34 | 4.28 | 4.63 |
| 1.2.3.4.6.7.8-Hepta-CDD | 0.42 | 2.19 | nd | 5.11 | 21.81 | 0.7 | 5.73 | 462.35 | 43.04 | 78.80 | 82.93 |
| OCDD | 1.44 | 2.49 | nd | 7.20 | 16.34 | 2.2 | 9.91 | 1026.09 | 66.41 | 121.58 | 177.24 |
| 2.3.7.8-Tetra-CDF | 0.10 | 1.22 | nd | 2.47 | 8.09 | n.d.(1.2) | 1.00 | 5.32 | 0.20 | 0.37 | 3.03 |
| 1.2.3.7.8-Penta-CDF | nd | 1.95 | nd | 7.96 | 13.13 | 0.5 | 0.58 | 4.25 | 0.17 | 0.31 | 5.57 |
| 2.3.4.7.8-Penta-CDF | nd | 2.00 | nd | 2.89 | 13.92 | 0.3 | 0.78 | 7.18 | 0.19 | 0.35 | 5.36 |
| 1.2.3.4.7.8-Hexa-CDF | nd | 1.24 | nd | 6.44 | 14.08 | 0.3 | 0.61 | 8.98 | 0.48 | 0.87 | 6.27 |
| 1.2.3.6.7.8-Hexa-CDF | nd | 1.10 | nd | 4.95 | 11.63 | n.d.(0.2) | 0.87 | 11.44 | 0.85 | 1.56 | 6.00 |
| 1.2.3.7.8.9-Hexa-CDF | nd | nd | nd | 3.15 | 4.55 | n.d.(0.3) | 0.86 | 22.83 | 3.35 | 6.13 | 7.85 |
| 2.3.4.6.7.8-Hexa-CDF | nd | 1.26 | nd | 2.91 | 13.84 | n.d.(0.2) | 0.14 | 0.67 | 0.34 | 0.62 | 3.77 |
| 1.2.3.4.6.7.8-Hepta-CDF | 0.43 | 2.35 | nd | 7.18 | 24.66 | 0.90 | 3.90 | 121.44 | 13.23 | 24.21 | 26.66 |
| 1.2.3.4.7.8.9-Hepta-CDF | nd | nd | nd | 4.78 | 4.34 | n.d.(0.4) | 0.86 | 2.36 | 3.50 | 6.40 | 3.09 |
| OCDF | 0.46 | 1.20 | nd | 3.59 | 8.10 | 0.7 | 3.59 | 13.75 | 18.77 | 34.36 | 5.12 |
| I-TEQ (n.d.=0) | 0.0208 | 2.27 | nb | 5.00 | 19.60 | 0.25 | 1.64 | 25.92 | 1.79 | 3.28 | 9.07 |
| I-TEQ (n.d.=n.d.) | 0.47 | 2.29 | 0.46 | 5.00 | 19.60 | 0.85 | 1.64 | 25.92 | 1.79 | 3.28 | 9.15 |
| | | | | | | | | | | | 10.91 |
| | | | | | | | | | | | 10.83 |
| | | | | | | | | | | | 120% |
| | | | | | | | | | | | 118% |

| Sample Location: Date Analysis No. Sample Code: 11% O2 ->Vol% dry m³(ref) Nm³ | Cooled Probe | | | | Filter Cooler | | | Dilution | | | | | |
|---|--------------------------|--------------------------|---------------------------|--|---------------|--------------|--------------|---------------|---------------|-------------------|---------|-------|------|
| | West | East | Blank | | West | East | Blank | West | East | Blank | Average | SD | %RSD |
| | 2007-06-26 640276-1-6 | 2007-06-26 640276-2-6 | 2007-06-25 640276-1-B3 | | H-07-07-0081 | H-07-07-0079 | H-07-07-0084 | 26-6 W V13 | 26-6 E V18 | 25-6 Blanc V17 | | | |
| | 07 0388 006 | 07 0388 012 | 07 0388 015 | | | | | | | | | | |
| | 0.840 | 0.840 | 0.853 | | 9.1 | 9.1 | 9.1 | | | | | | |
| | 9.10 | 9.10 | 9.27 | | 6.487 | 7.328 | 6.216 | | | | | | |
| | 7.86 | 7.82 | 9.00 | | 5.448 | 6.153 | 5.448 | | | | | | |
| | pg/m³ | pg/m³ | pg/m³ | | pg/m³ | pg/m³ | pg/m³ | pg/m³ | pg/m³ | pg/m³ | | | |
| 2.3.7.8-Tetra-CDD | nd | nd | nd | | < 0.15 | < 0.15 | n.d.(0.2) | 0.10 | 0.05 | 0.01 | 0.07 | 0.04 | 50% |
| 1.2.3.7.8-Penta-CDD | nd | nd | nd | | 0.57 | < 0.16 | n.d.(0.3) | 0.12 | 0.53 | 0.02 | 0.41 | 0.25 | 61% |
| 1.2.3.4.7.8-Hexa-CDD | nd | nd | nd | | 1.24 | 0.91 | n.d.(0.4) | 0.25 | 0.72 | 0.71 | 0.78 | 0.41 | 53% |
| 1.2.3.6.7.8-Hexa-CDD | nd | nd | nd | | 1.68 | 0.84 | n.d.(0.3) | 0.34 | 1.83 | 1.47 | 1.17 | 0.71 | 60% |
| 1.2.3.7.8.9-Hexa-CDD | nd | nd | nd | | 1.00 | 0.35 | n.d.(0.2) | 0.29 | 1.56 | 2.21 | 0.80 | 0.60 | 75% |
| 1.2.3.4.6.7.8-Hepta-CDD | 0.26 | 0.31 | nd | | 9.09 | 6.72 | 0.7 | 2.21 | 34.09 | 40.58 | 8.78 | 12.90 | 147% |
| OCDD | 1.52 | 1.23 | nd | | 7.89 | 15.80 | 2.2 | 3.93 | 100.15 | 62.61 | 21.75 | 38.78 | 178% |
| 2.3.7.8-Tetra-CDF | nd | nd | nd | | 1.88 | 0.91 | n.d.(1.2) | 0.65 | 1.02 | 0.19 | 1.11 | 0.53 | 48% |
| 1.2.3.7.8-Penta-CDF | nd | nd | nd | | 5.73 | 0.82 | 0.5 | 0.24 | 0.99 | 0.16 | 1.94 | 2.55 | 131% |
| 2.3.4.7.8-Penta-CDF | nd | 0.17 | nd | | 2.65 | 0.77 | 0.3 | 0.53 | 0.71 | 0.18 | 0.97 | 0.97 | 100% |
| 1.2.3.4.7.8-Hexa-CDF | nd | nd | nd | | 5.88 | 1.49 | 0.3 | 0.28 | 0.91 | 0.45 | 2.14 | 2.54 | 119% |
| 1.2.3.6.7.8-Hexa-CDF | nd | nd | nd | | 4.42 | 0.87 | n.d.(0.2) | 0.40 | 1.32 | 0.80 | 1.75 | 1.82 | 104% |
| 1.2.3.7.8.9-Hexa-CDF | nd | nd | nd | | 3.41 | 0.47 | n.d.(0.3) | 0.44 | 1.77 | 3.16 | 1.52 | 1.40 | 92% |
| 2.3.4.6.7.8-Hexa-CDF | nd | nd | nd | | 3.72 | 0.91 | n.d.(0.2) | 0.03 | 0.09 | 0.32 | 1.19 | 1.74 | 146% |
| 1.2.3.4.6.7.8-Hepta-CDF | 0.27 | 0.31 | nd | | 7.79 | 2.96 | 0.90 | 1.60 | 8.98 | 12.47 | 3.65 | 3.82 | 105% |
| 1.2.3.4.7.8.9-Hepta-CDF | nd | nd | nd | | 3.89 | 0.38 | n.d.(0.4) | 0.22 | 0.98 | 3.30 | 1.37 | 1.72 | 126% |
| OCDF | 0.63 | 0.82 | nd | | 3.41 | 1.86 | 0.7 | 1.84 | 5.56 | 17.69 | 2.35 | 1.86 | 79% |
| I-TEQ (n.d.=0) | 0.0074 | 0.09 | nb | | 4.44 | 1.22 | 0.25 | 0.75 | 2.19 | 1.69 | 1.45 | 1.67 | 115% |
| I-TEQ (n.d.=n.d.) | 0.46 | 0.46 | 0.46 | | 4.59 | 1.44 | 0.85 | 0.75 | 2.19 | 1.69 | 1.65 | 1.59 | 96% |

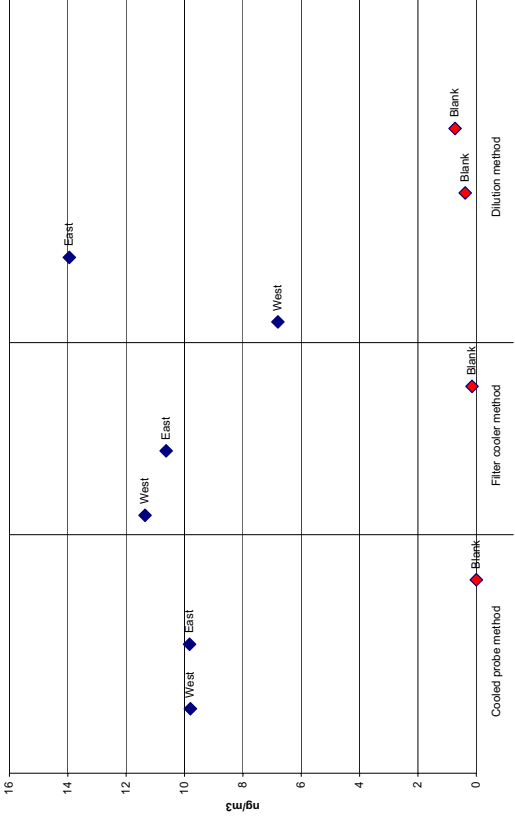
PCB WHO TEQ Day 1



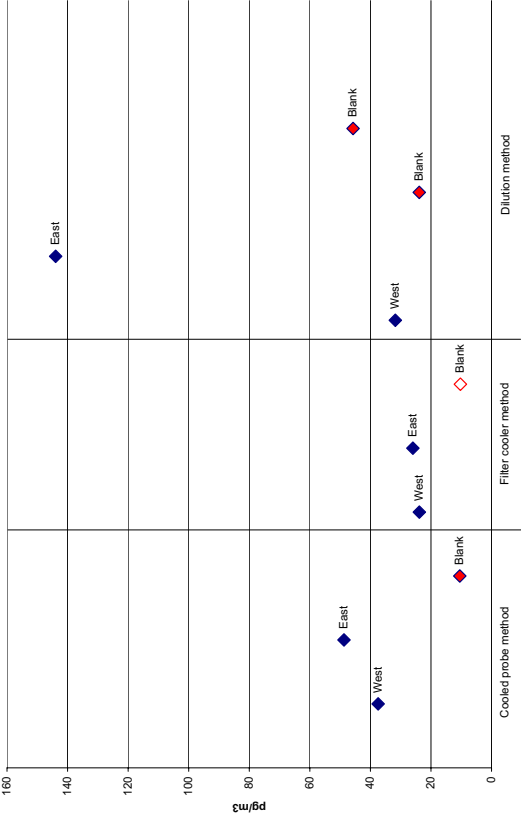
Marker PCBs Day 1



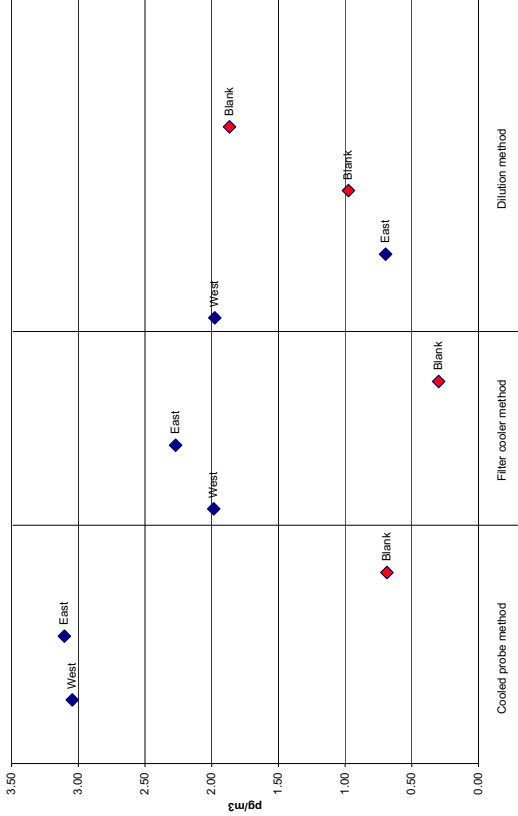
HCB Day 1



PCB 77 Day 1



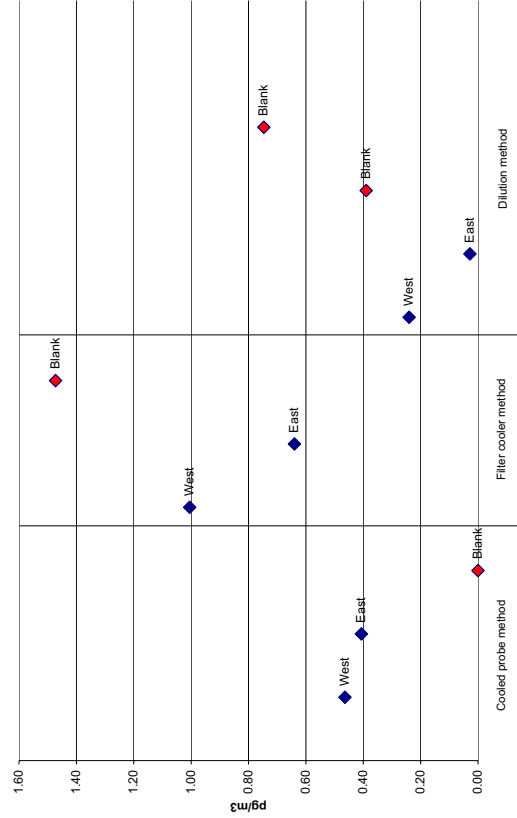
PCB 81 Day 1



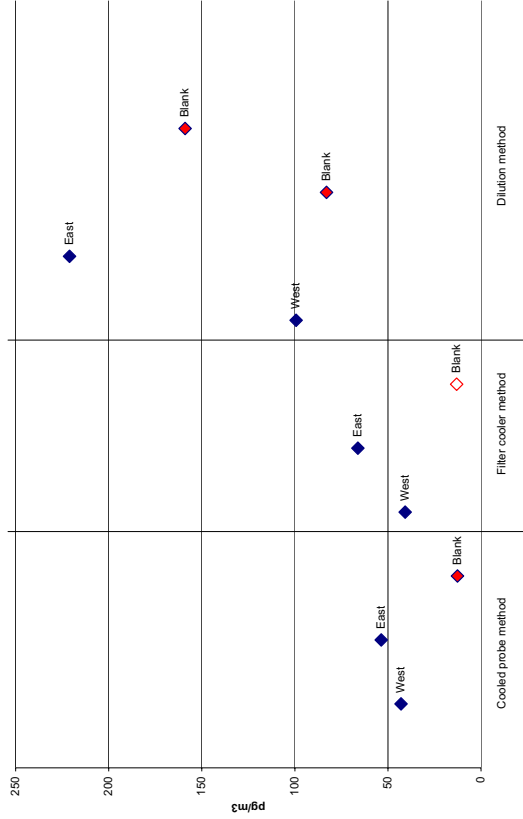
PCB 126 Day 1



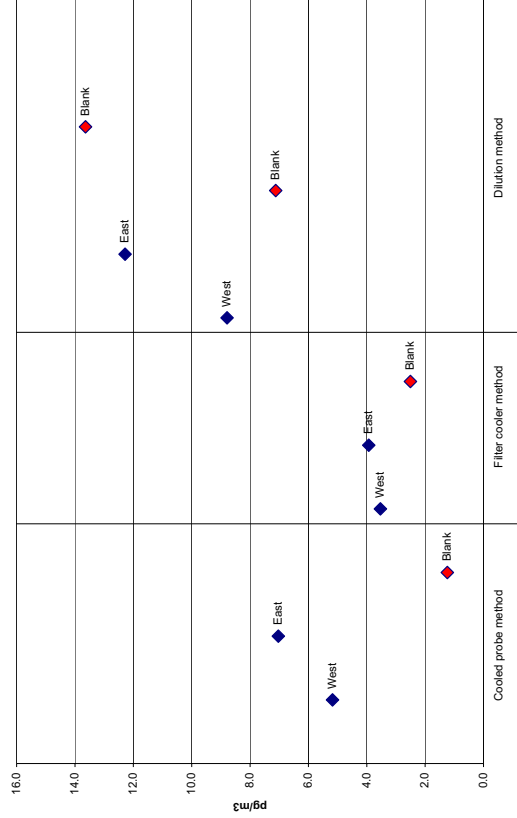
PCB 169 Day 1



PCB 105 Day 1



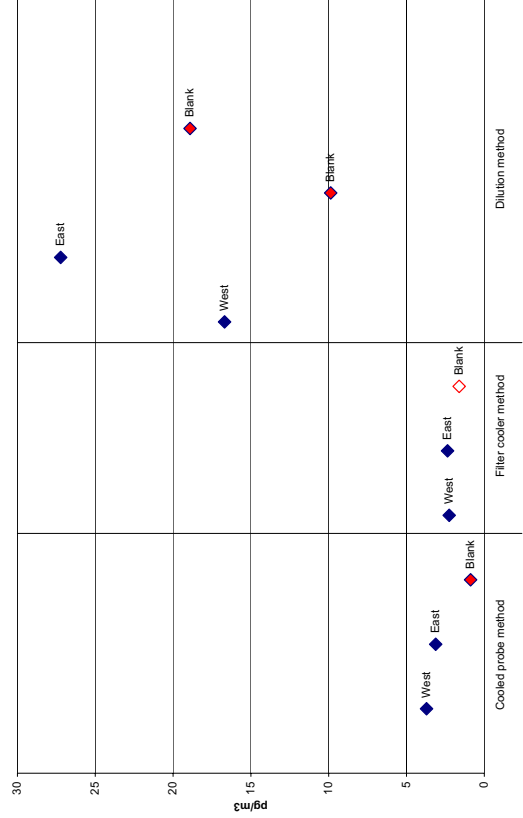
PCB 114 Day 1



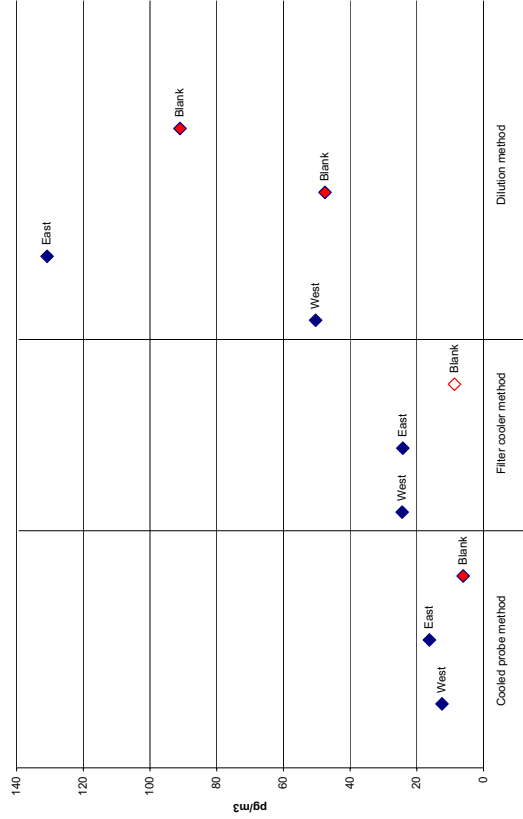
PCB 118 Day 1



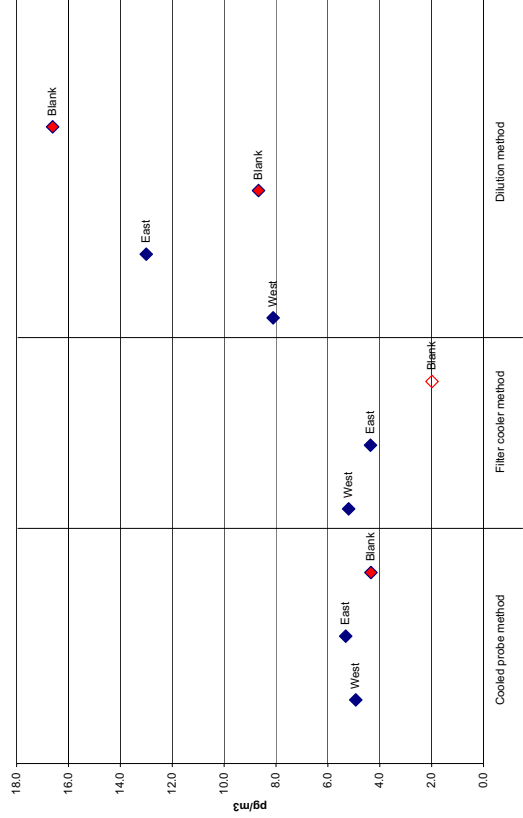
PCB 123 Day 1



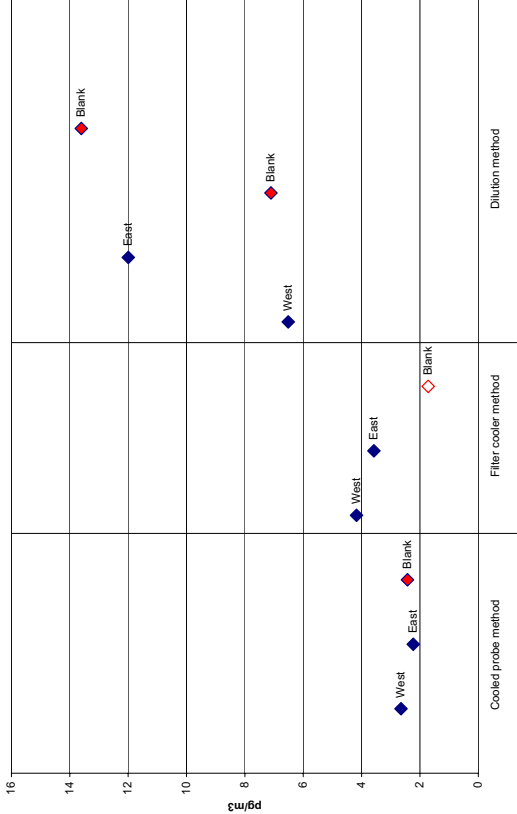
PCB 156 Day 1



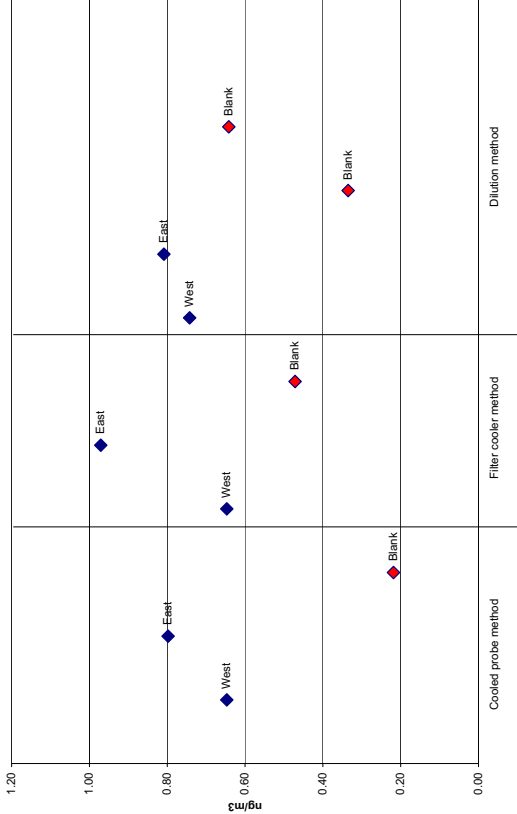
PCB 157 Day 1



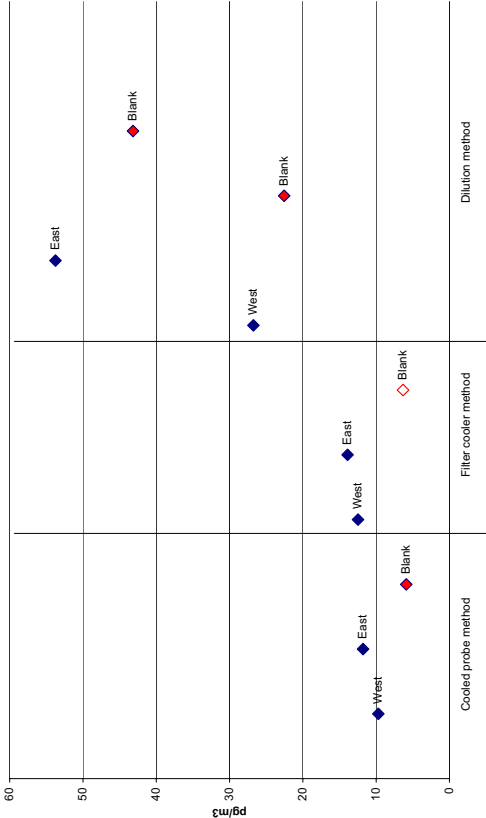
PCB 189 Day 1



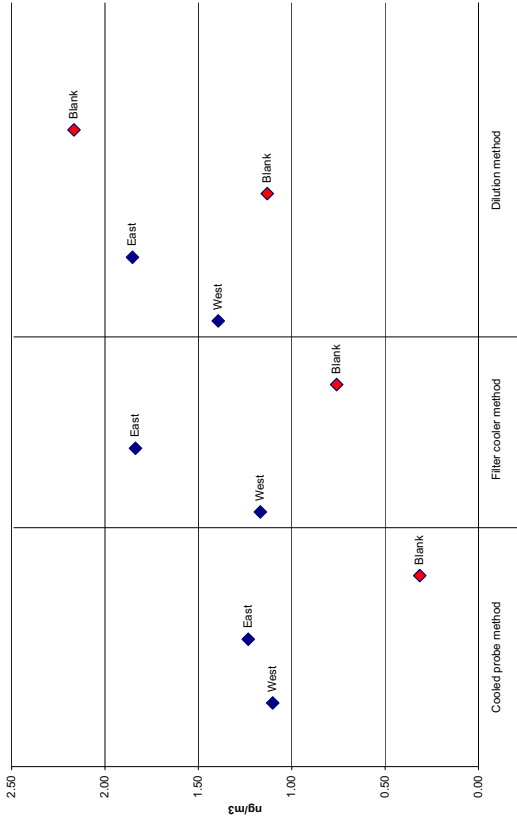
PCB 52 Day 1



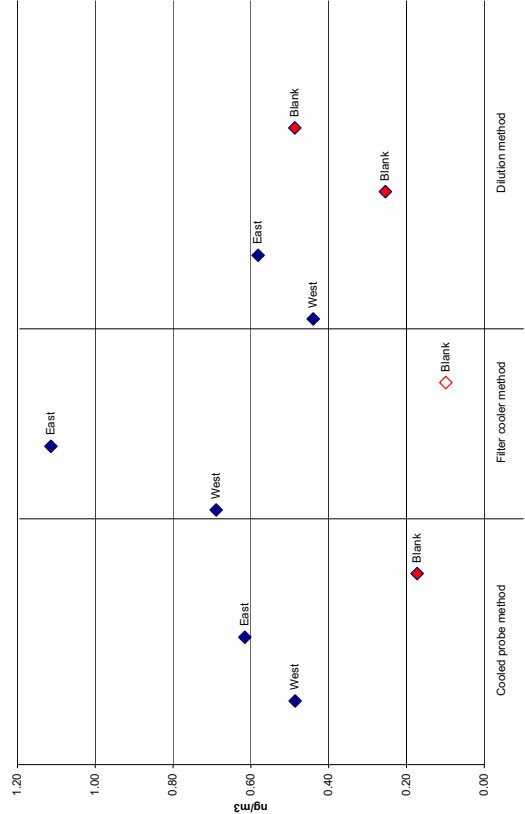
PCB 167 Day 1



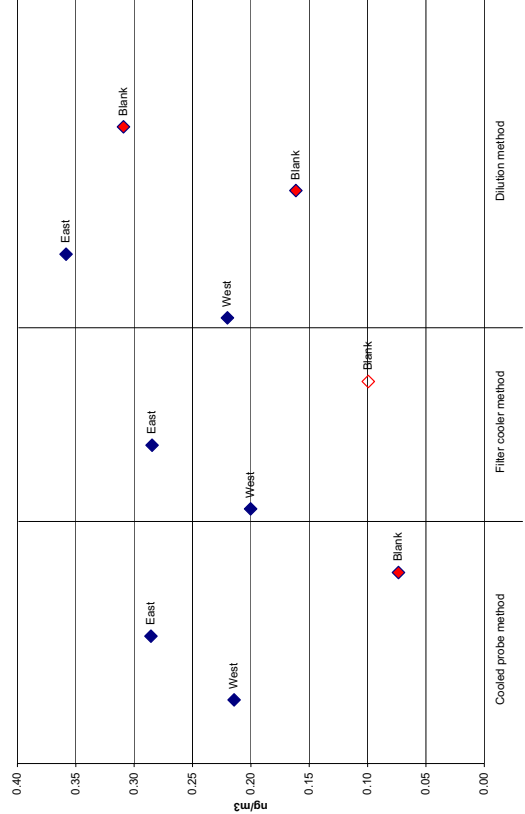
PCB 28 Day 1



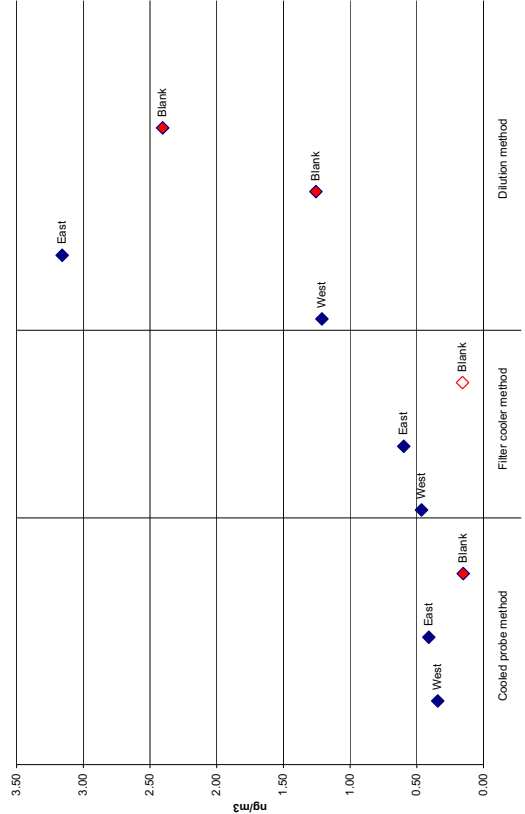
PCB 101 Day 1



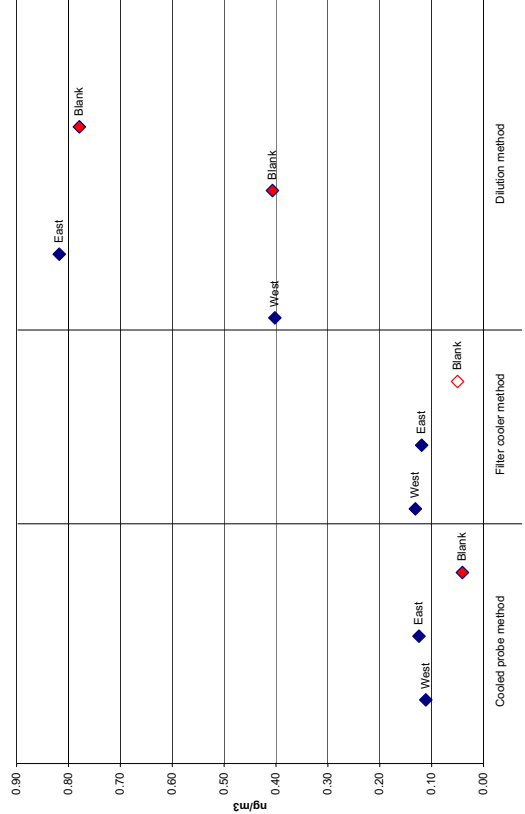
PCB 138 Day 1



PCB 153 Day 1



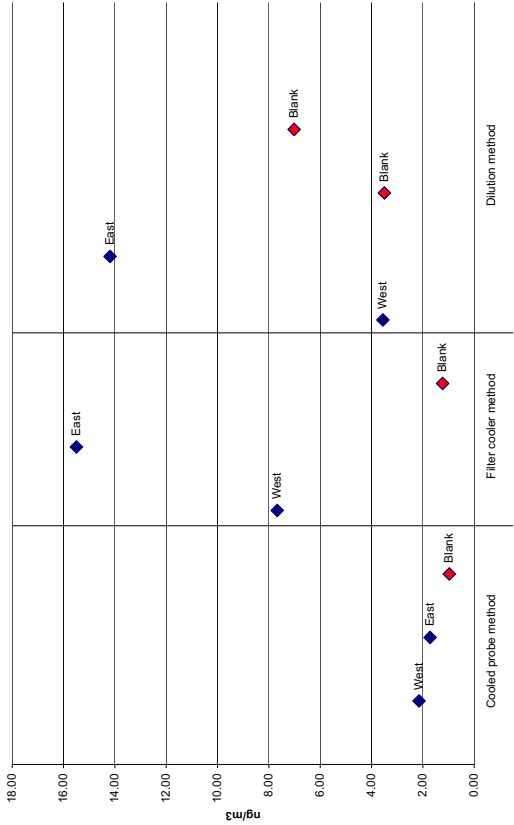
PCB 180 Day 1



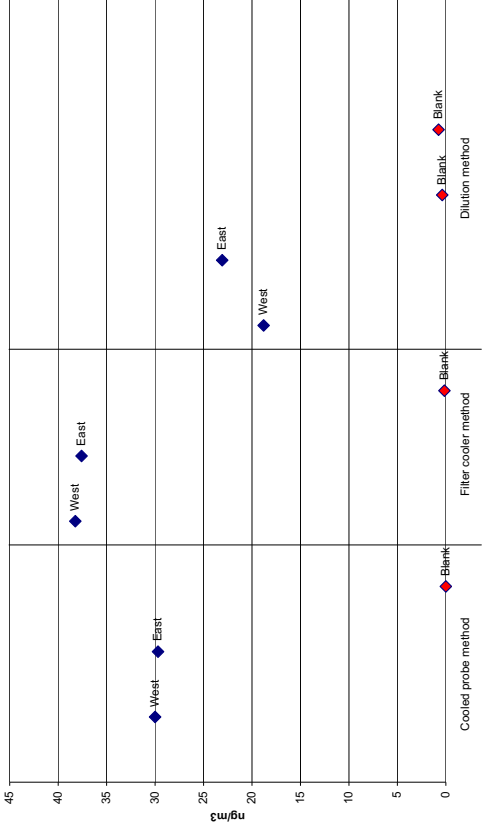
PCB WHO TEQ Day 2



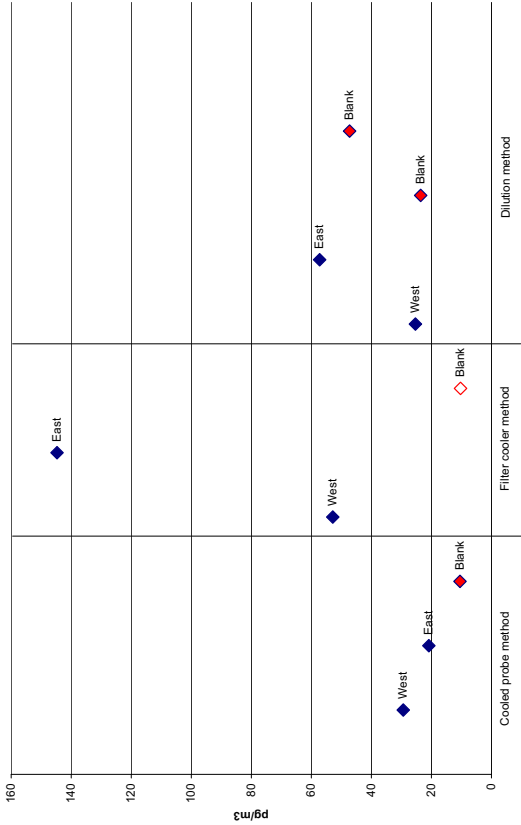
Marker PCBs Day 2



HCB Day 2



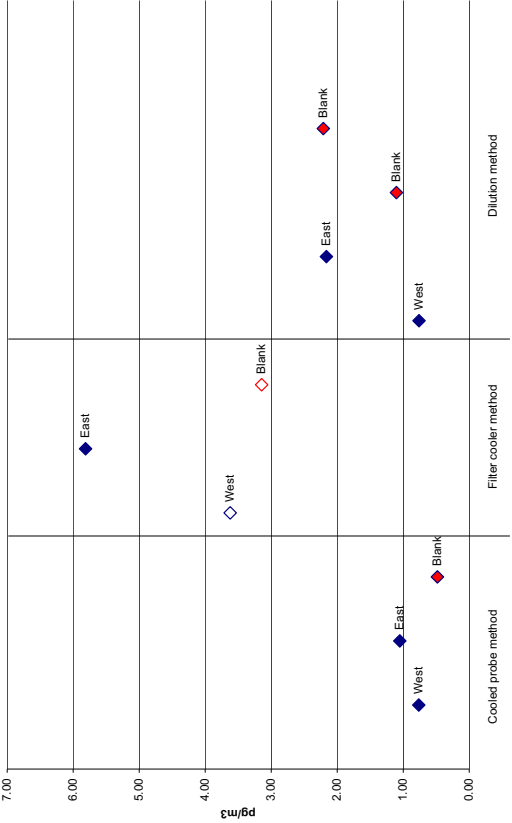
PCB 77 Day 2



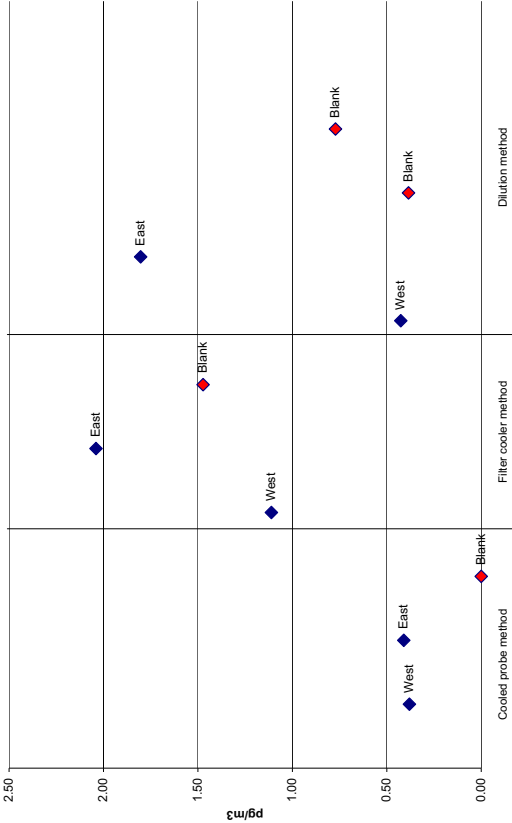
PCB 81 Day 2



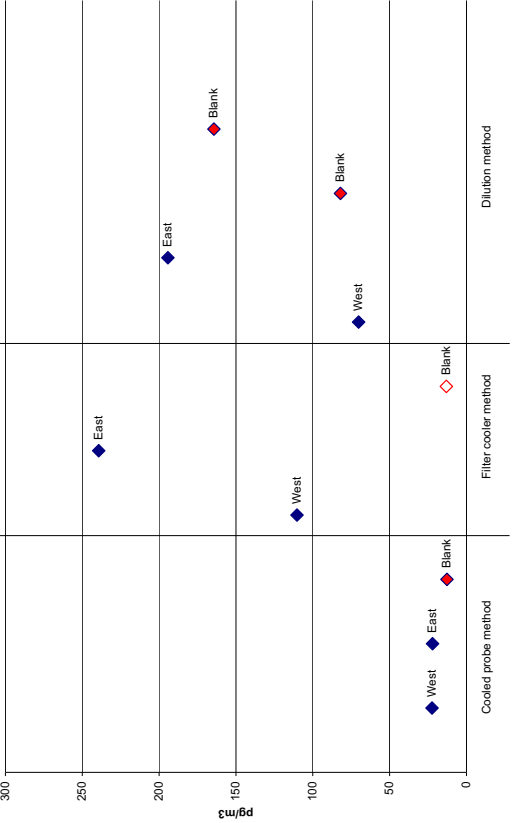
PCB 126 Day 2



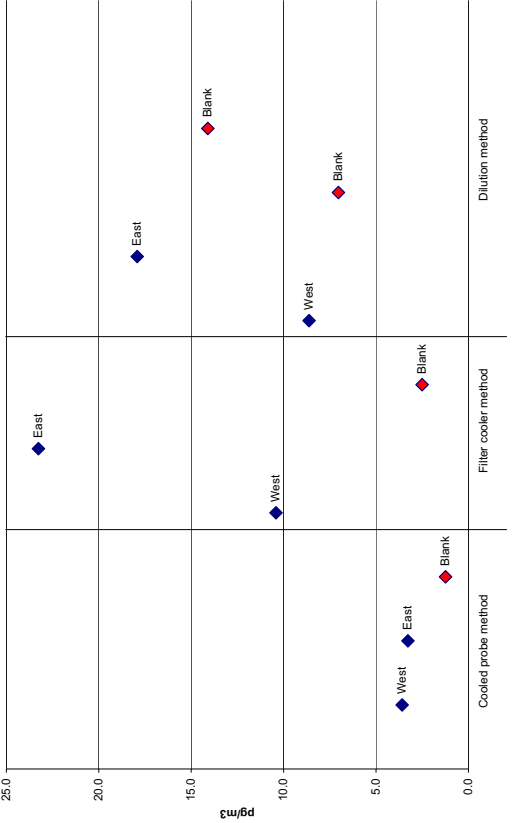
PCB 169 Day 2



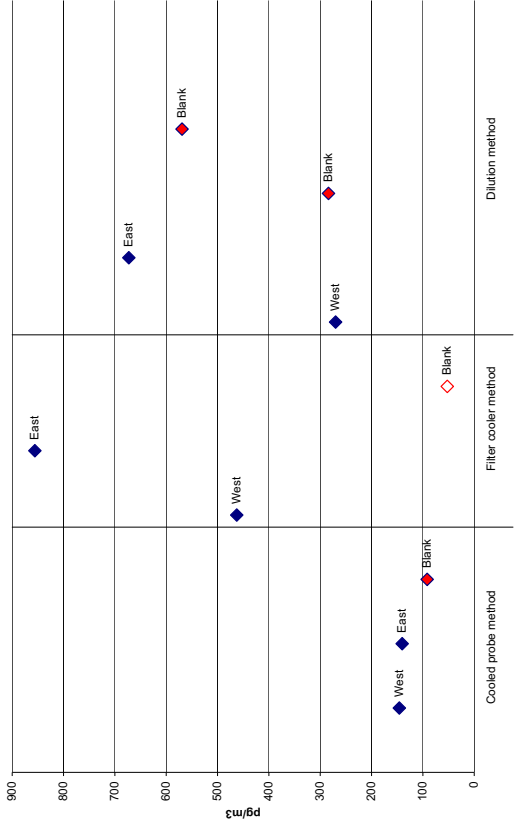
PCB 105 Day 2



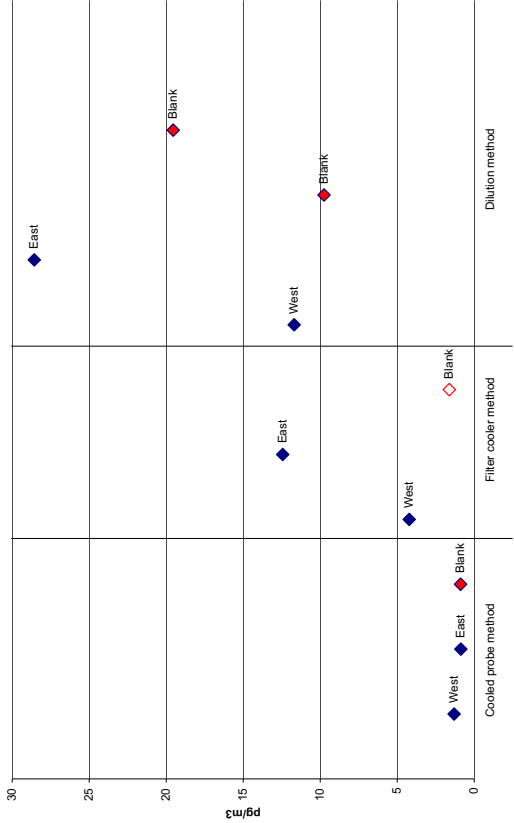
PCB 114 Day 2



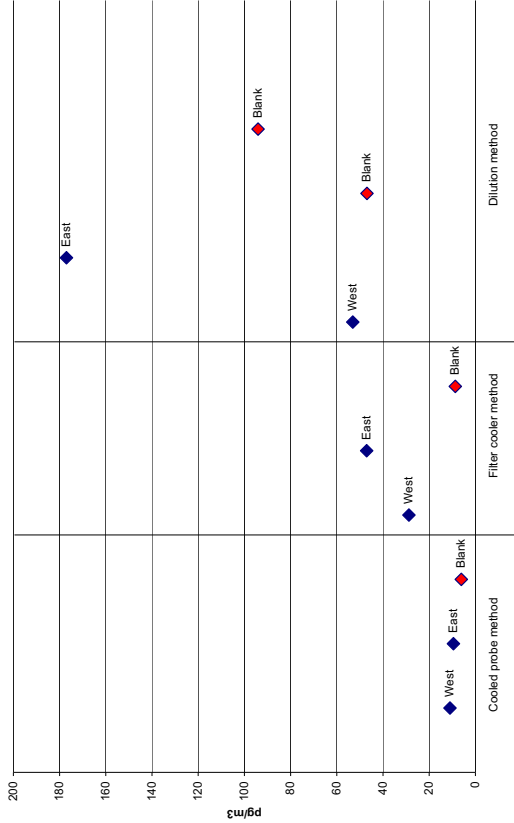
PCB 118 Day 2



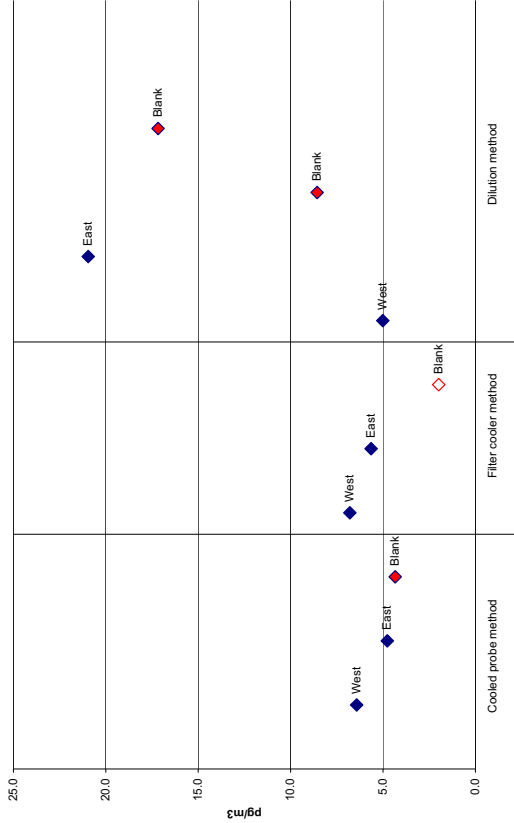
PCB 123 Day 2



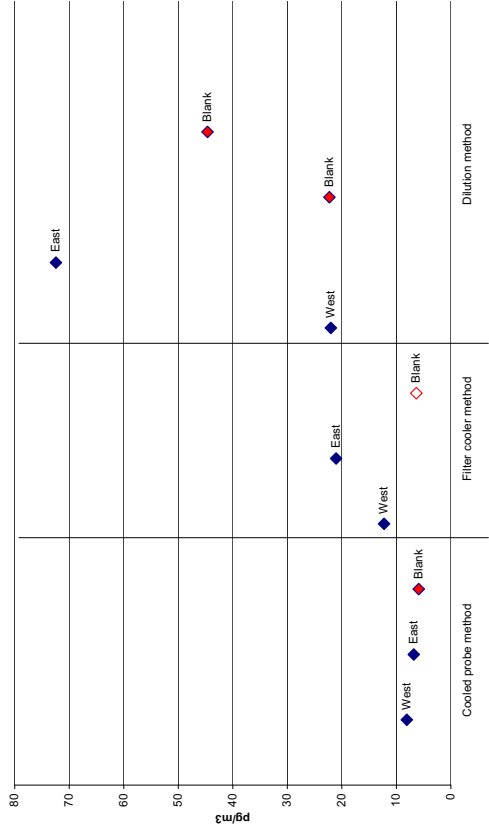
PCB 156 Day 2



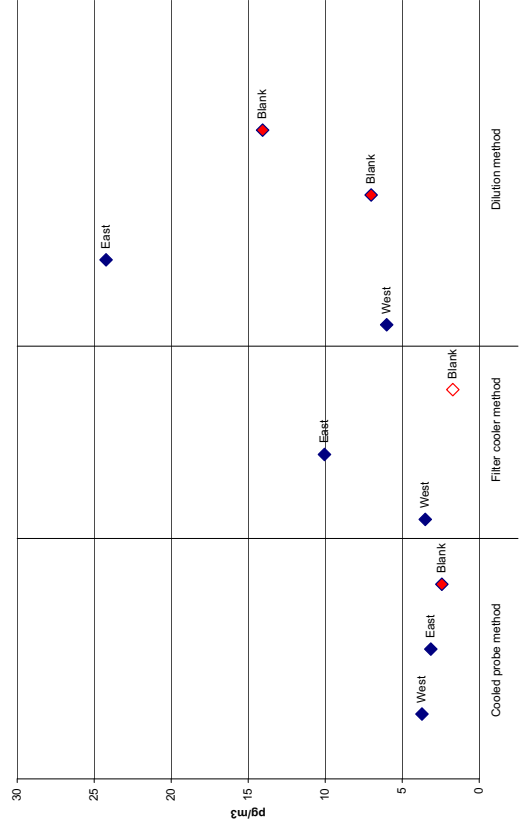
PCB 157 Day 2



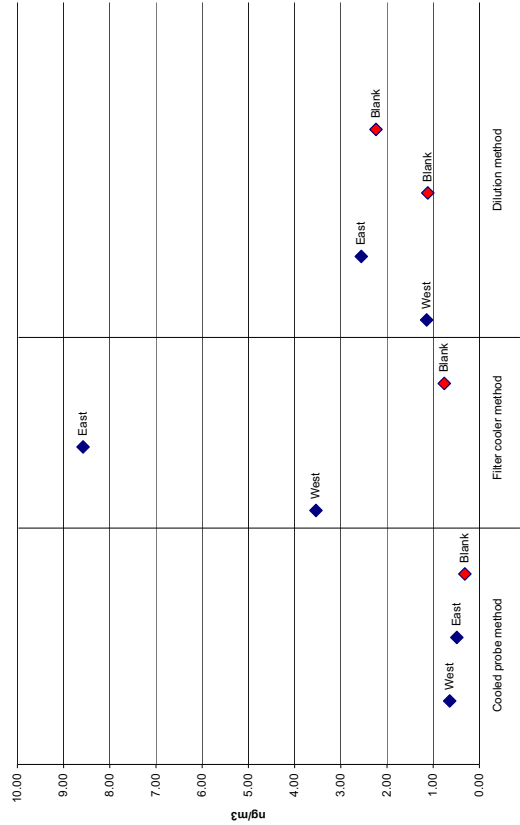
PCB 167 Day 2



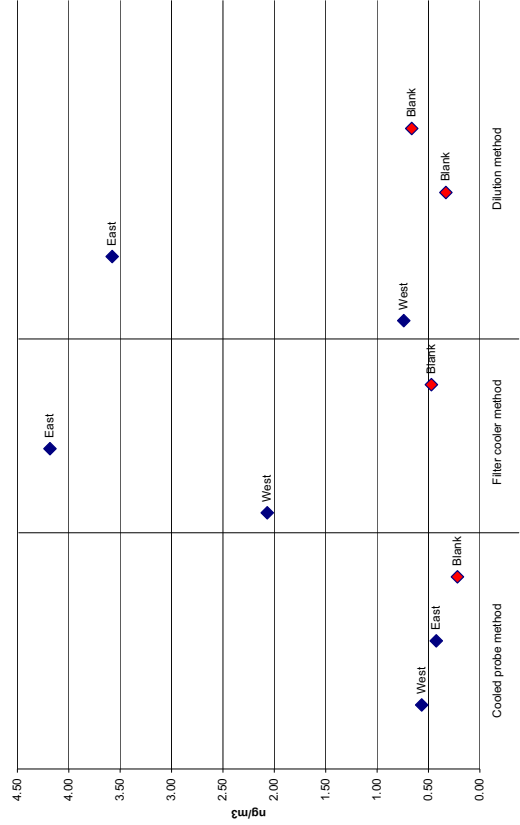
PCB 189 Day 2



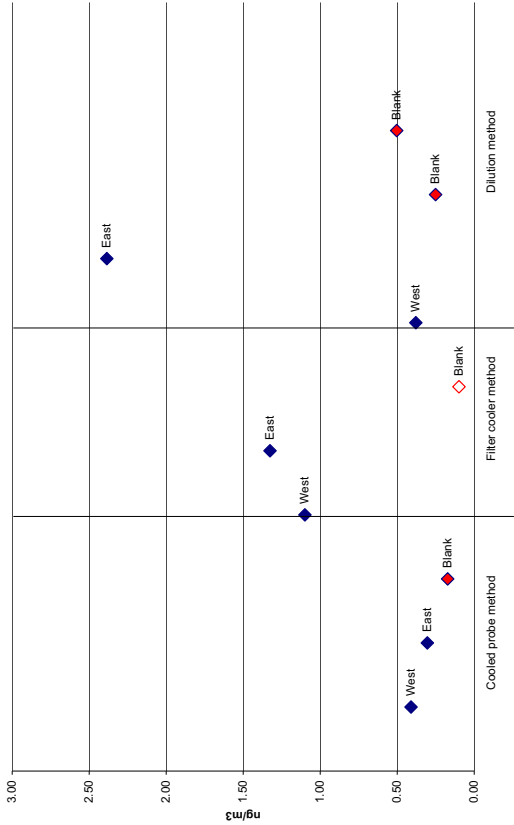
PCB 28 Day 2



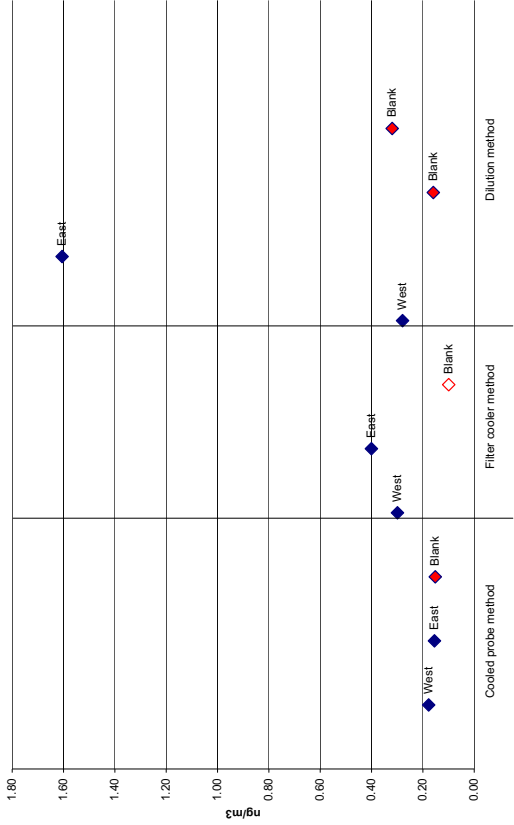
PCB 52 Day 2



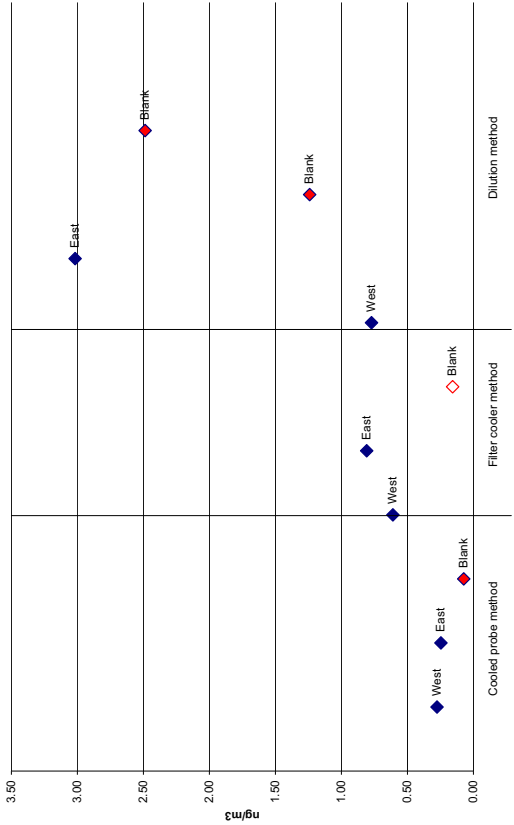
PCB 101 Day 2



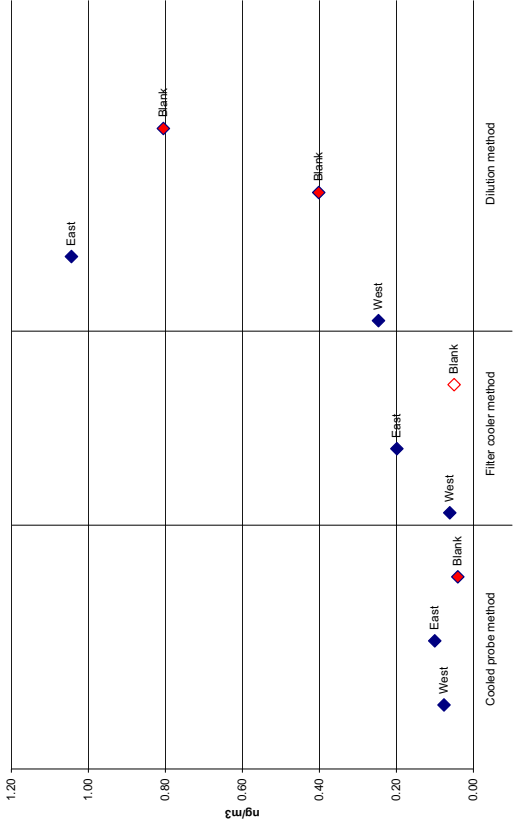
PCB 138 Day 2



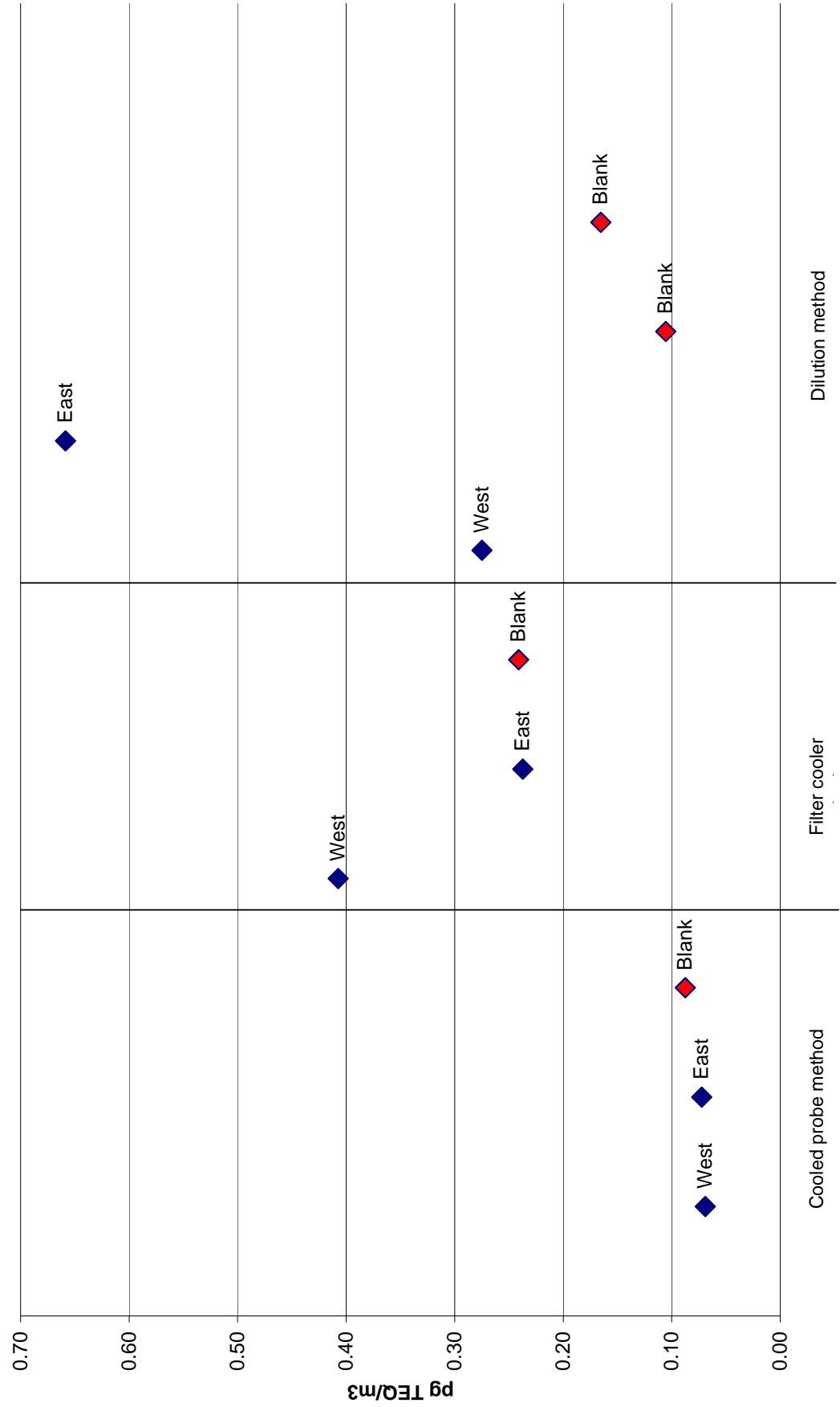
PCB 153 Day 2



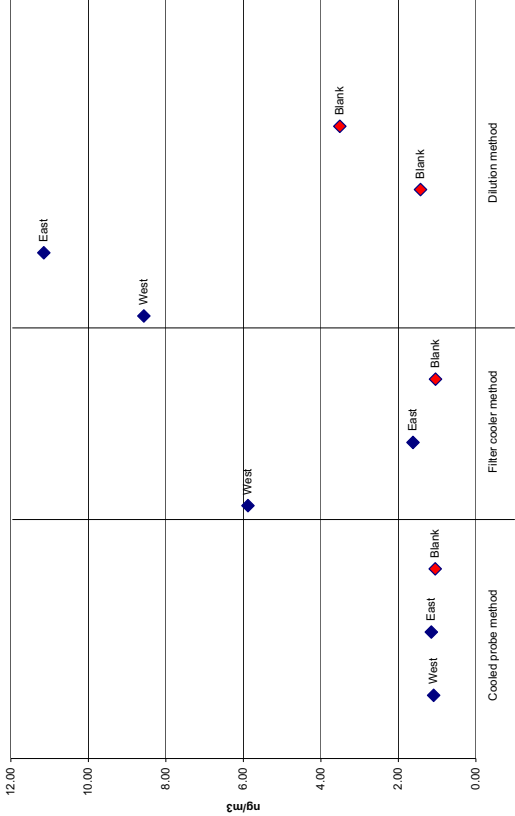
PCB 180 Day 2



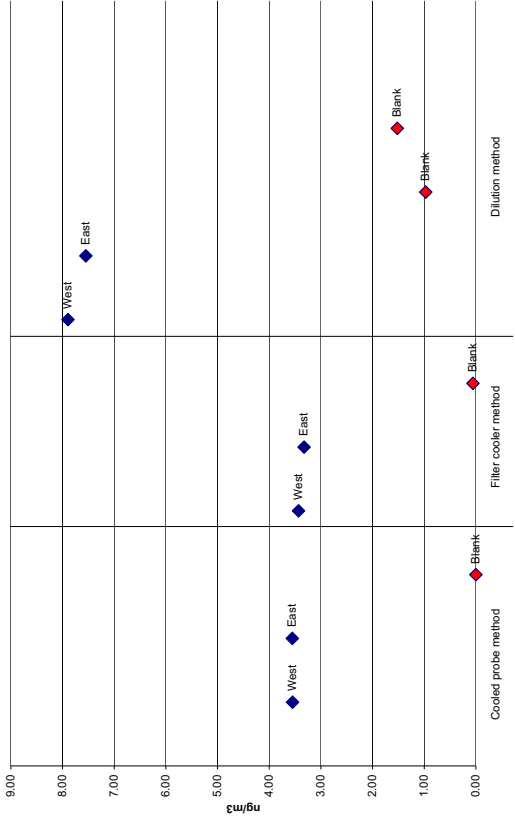
PCB WHO TEQ Day 3



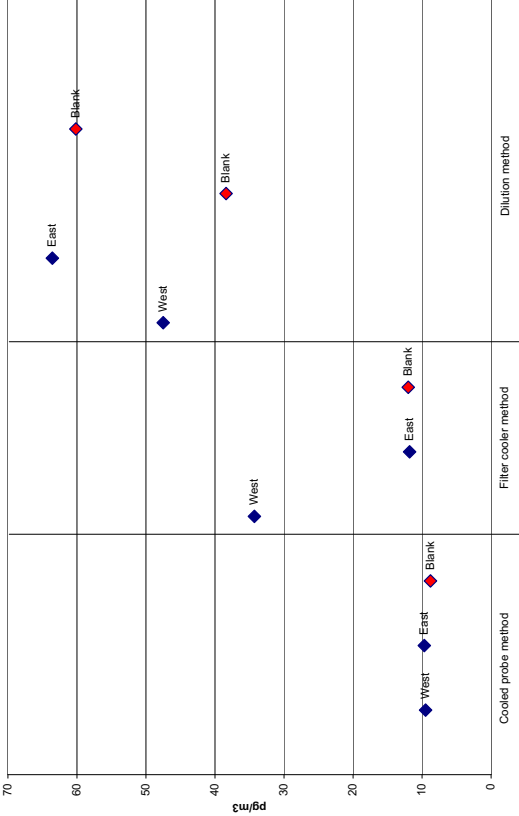
Marker PCBs Day 3



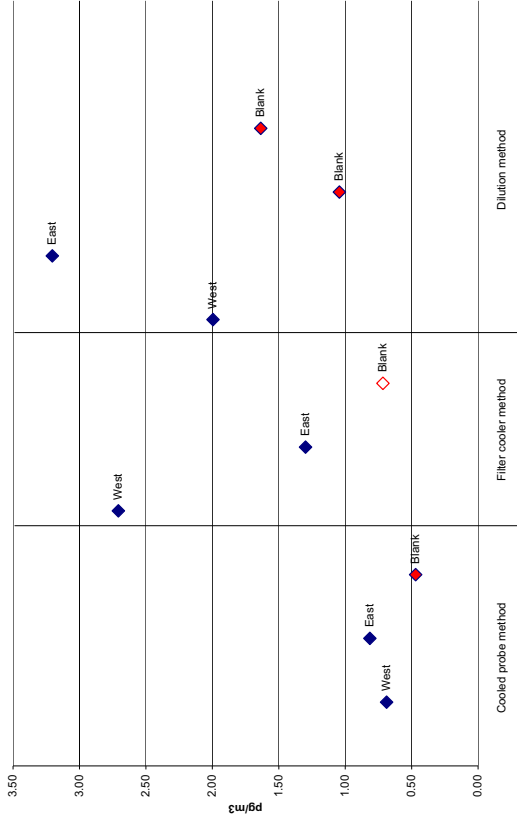
HCB Day 3



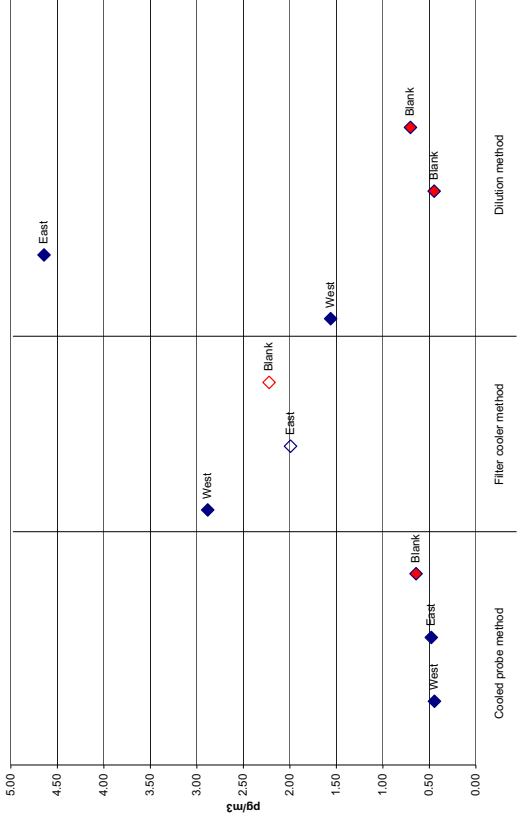
PCB 77 Day 3



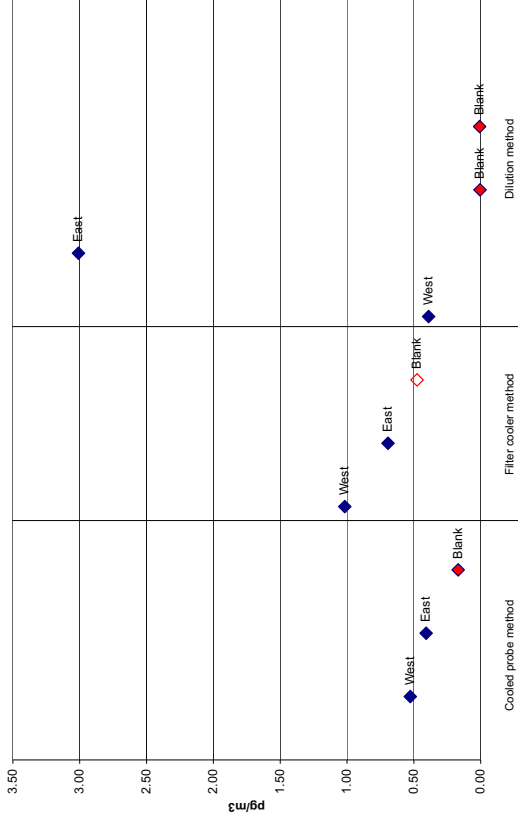
PCB 81 Day 3



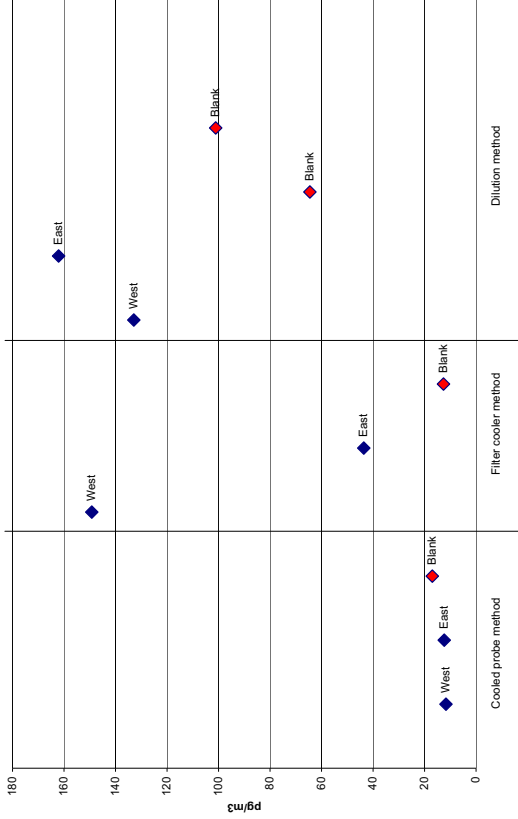
PCB 126 Day 3



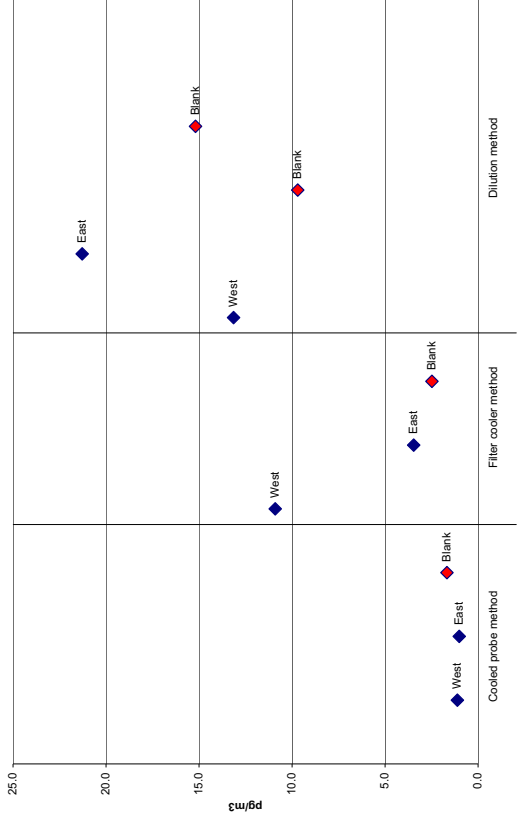
PCB 169 Day 3



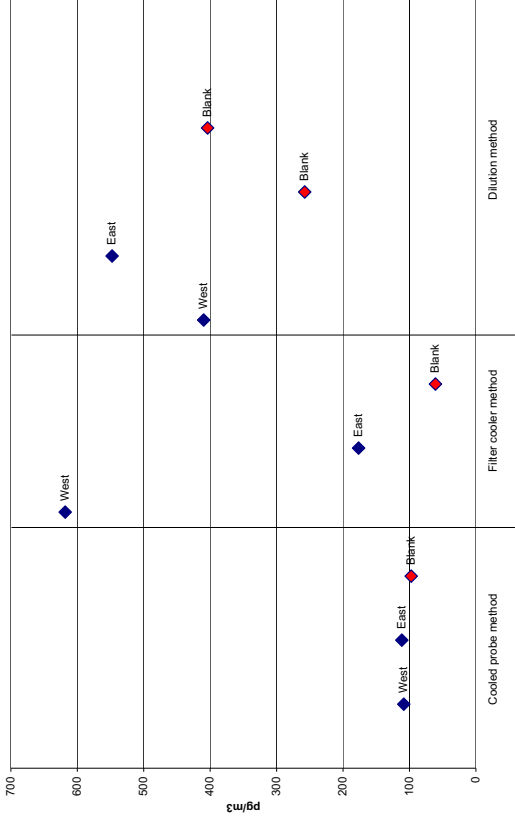
PCB 105 Day 3



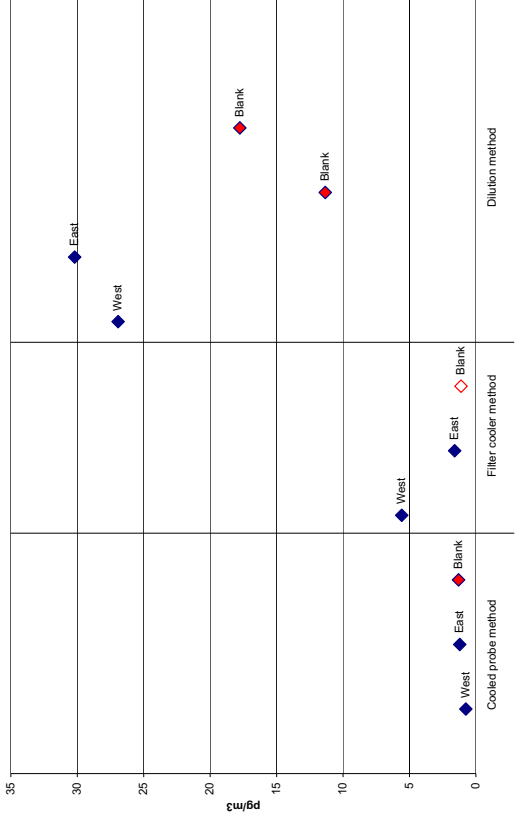
PCB 114 Day 3



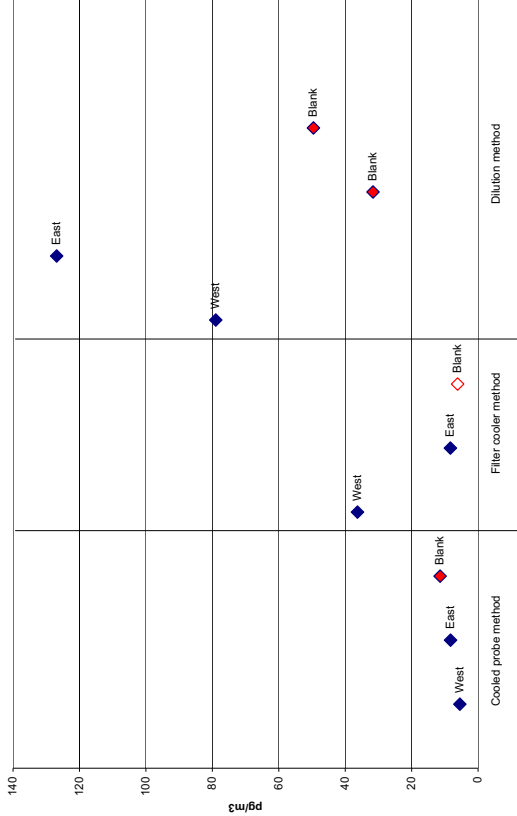
PCB 118 Day 3



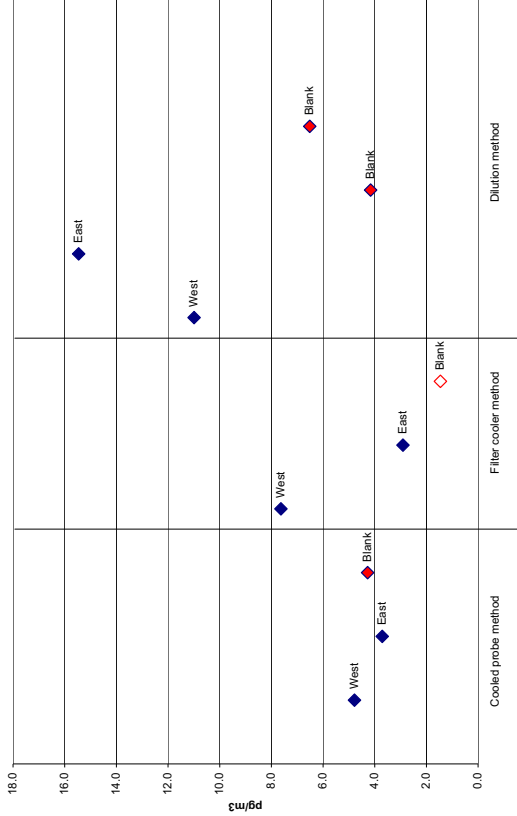
PCB 123 Day 3



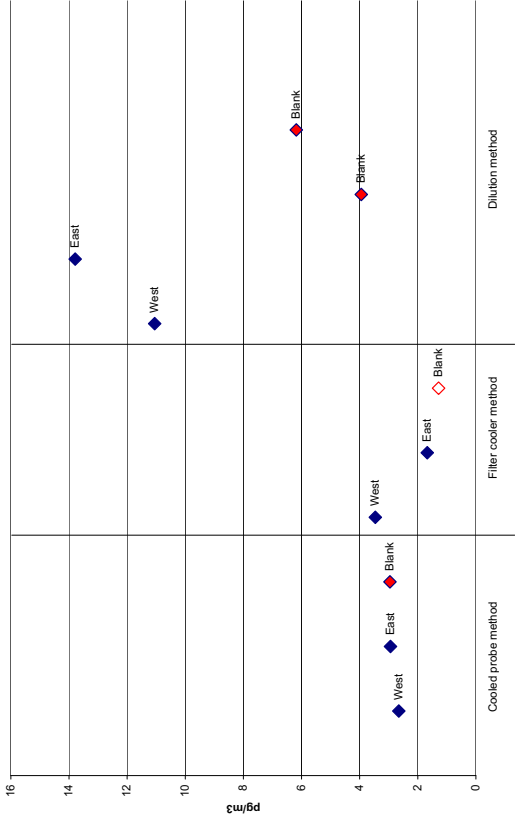
PCB 156 Day 3



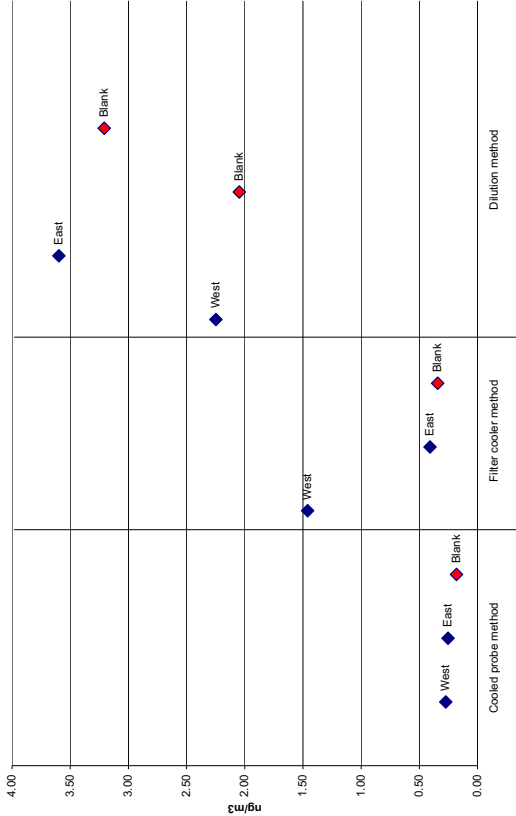
PCB 157 Day 3



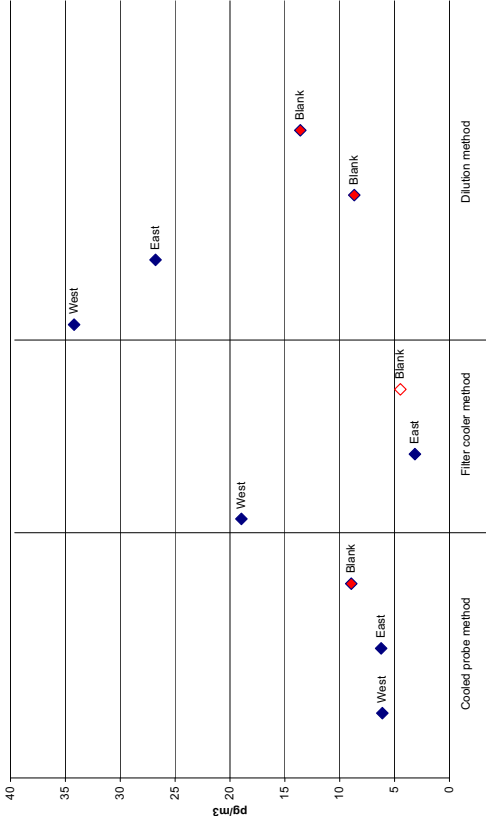
PCB 189 Day 3



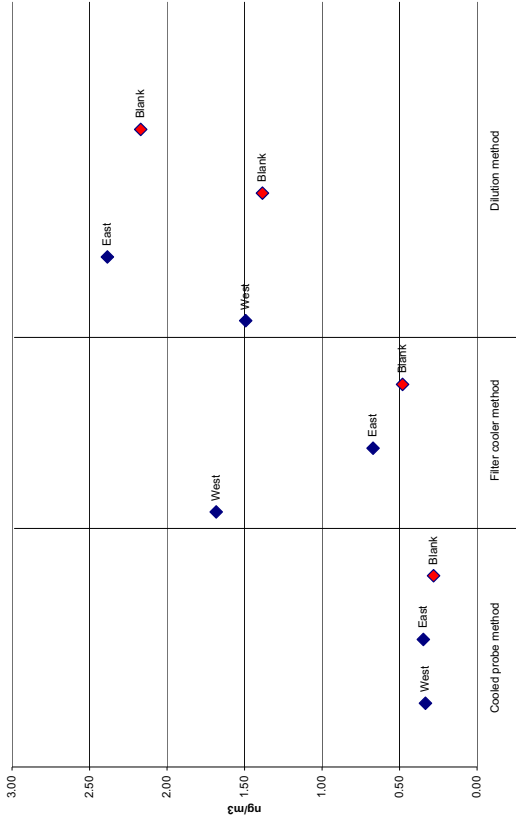
PCB 52 Day 3



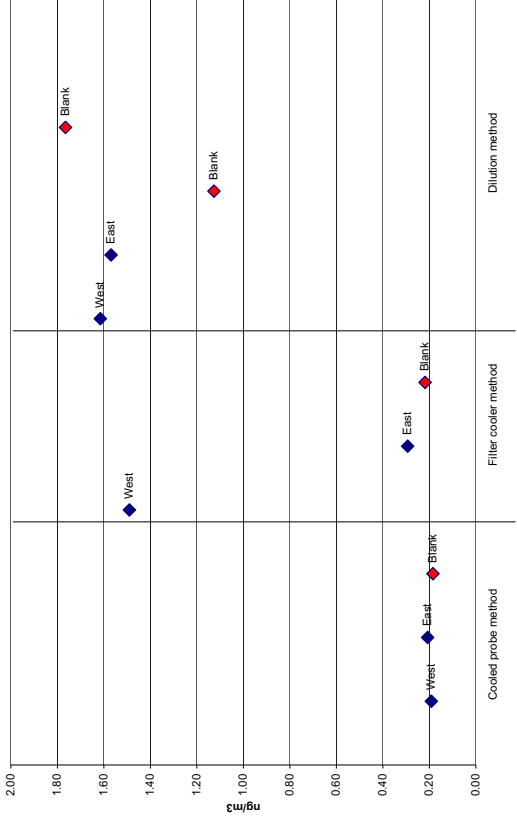
PCB 167 Day 3



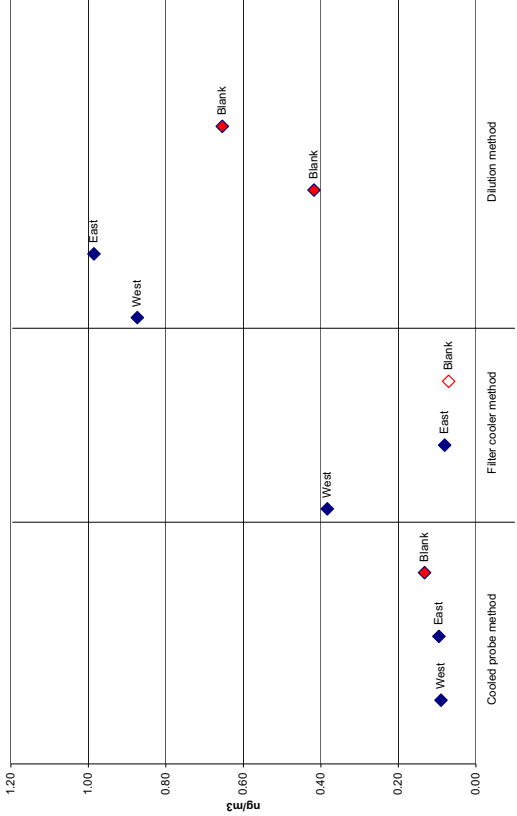
PCB 28 Day 3



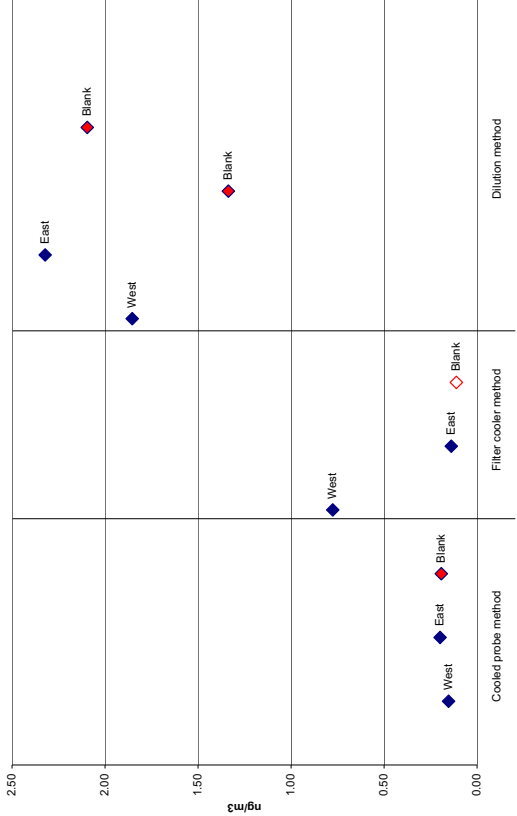
PCB 101 Day 3



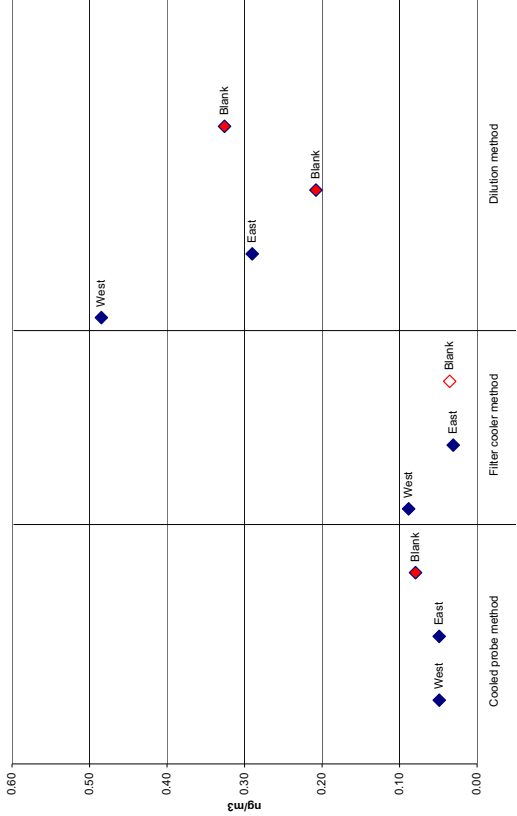
PCB 138 Day 3



PCB 153 Day 3



PCB 180 Day 3



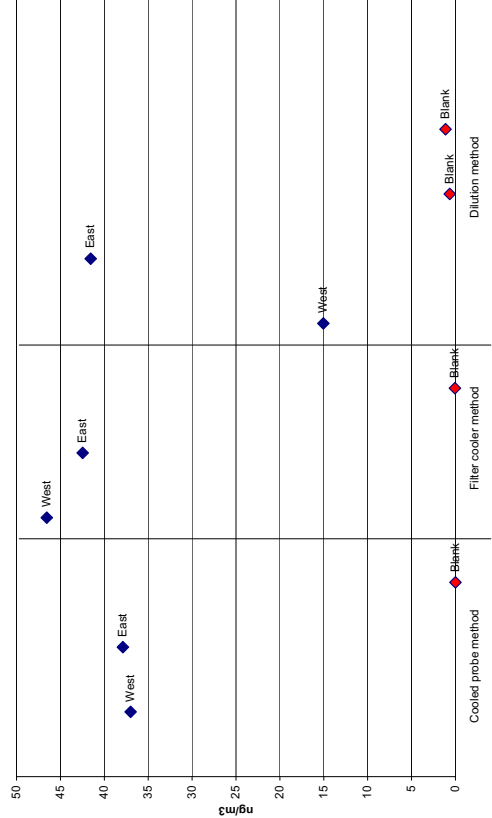
PCB WHO TEQ Day 4



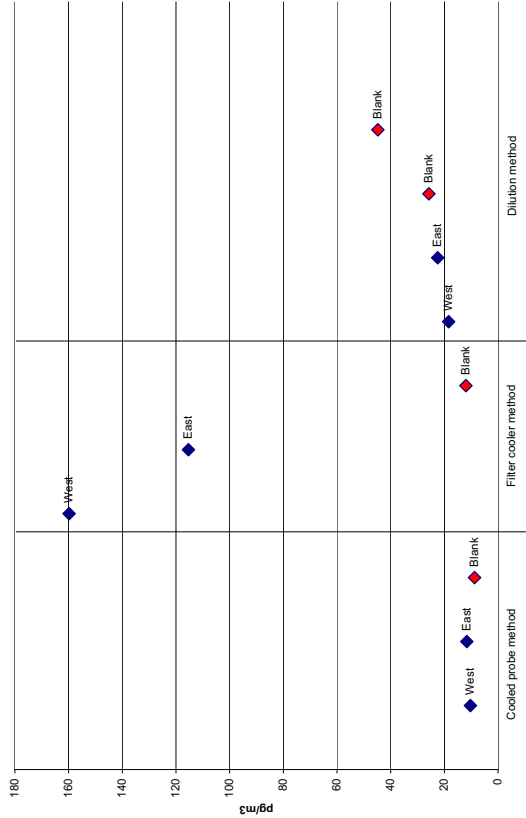
Marker PCBs Day 4



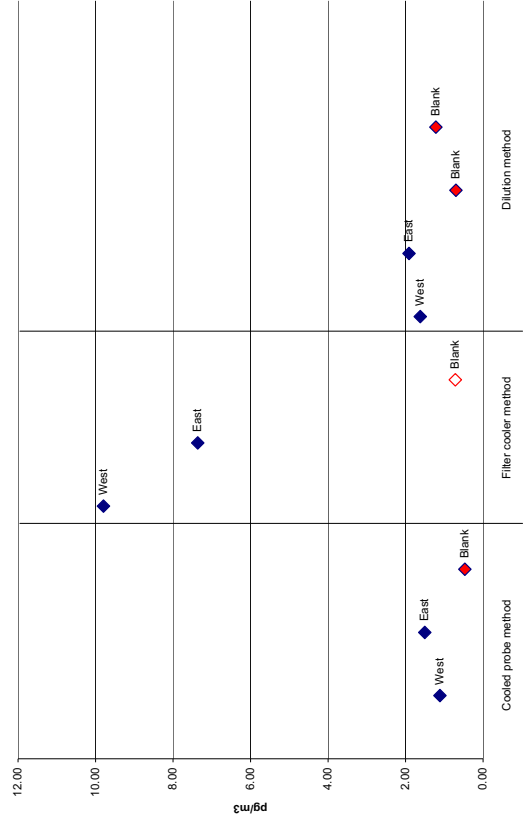
HCB Day 4



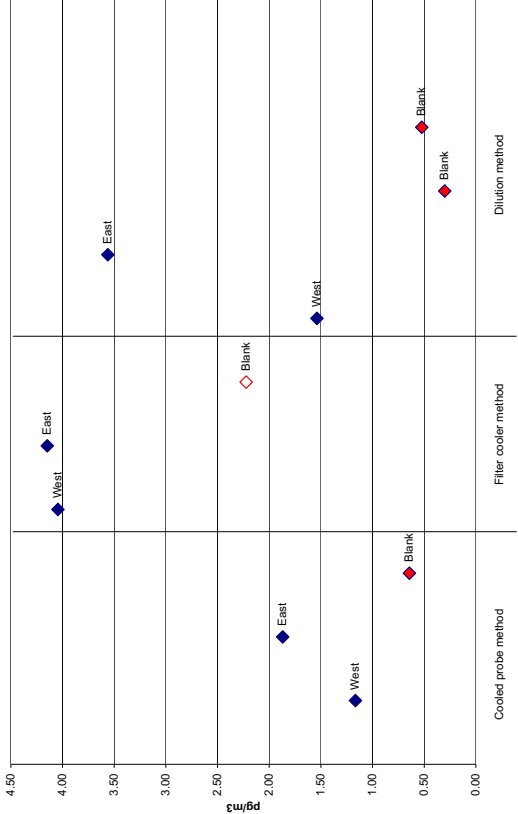
PCB 77 Day 4



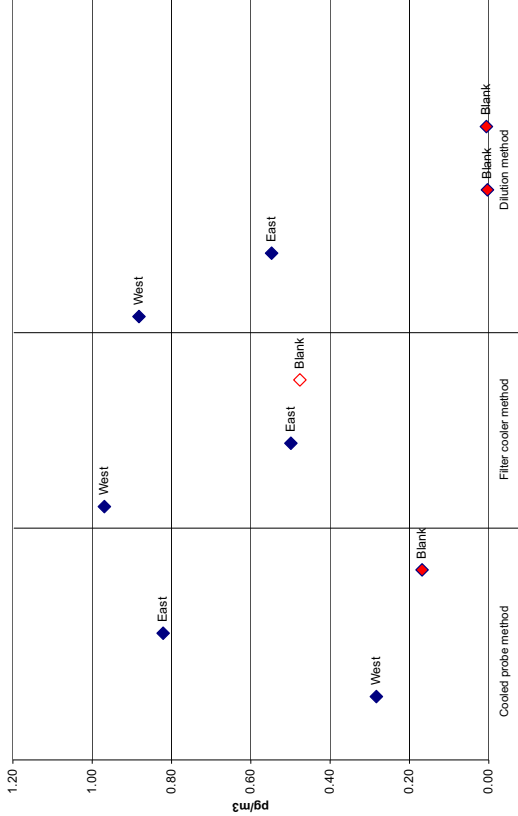
PCB 81 Day 4



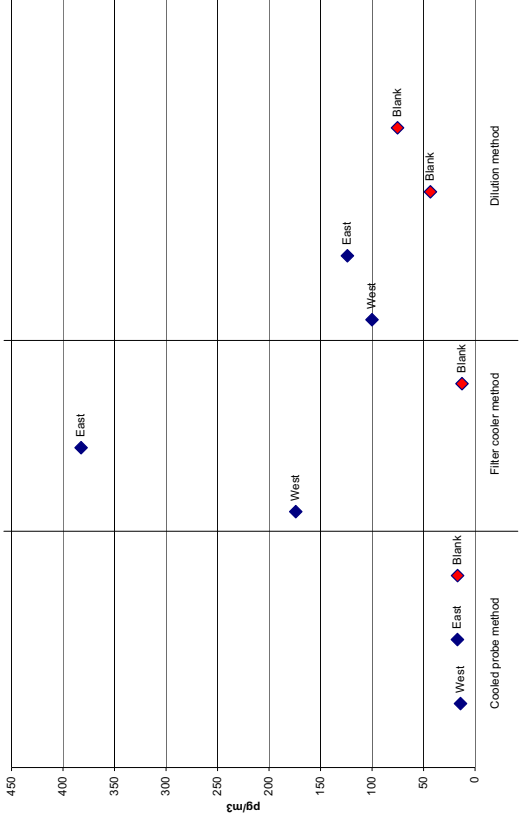
PCB 126 Day 4



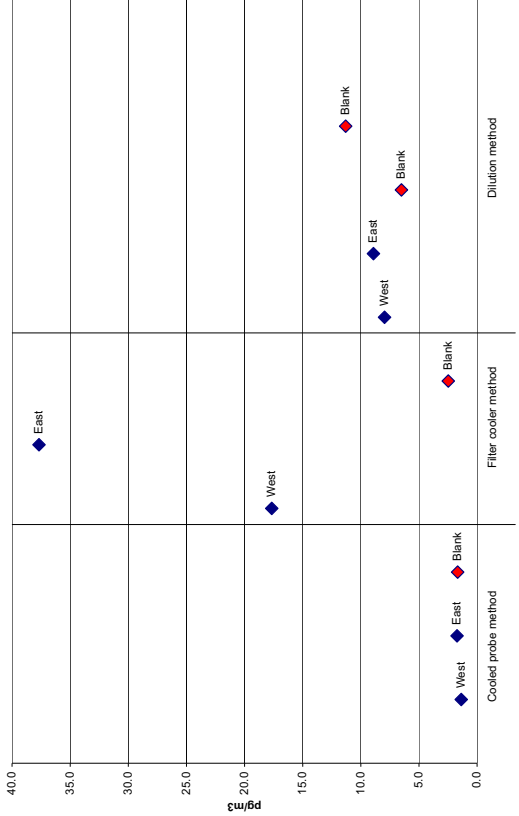
PCB 169 Day 4



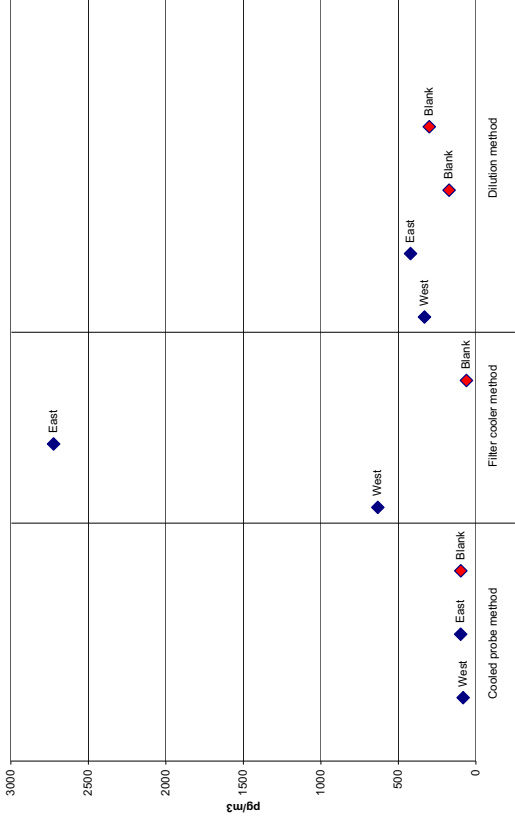
PCB 105 Day 4



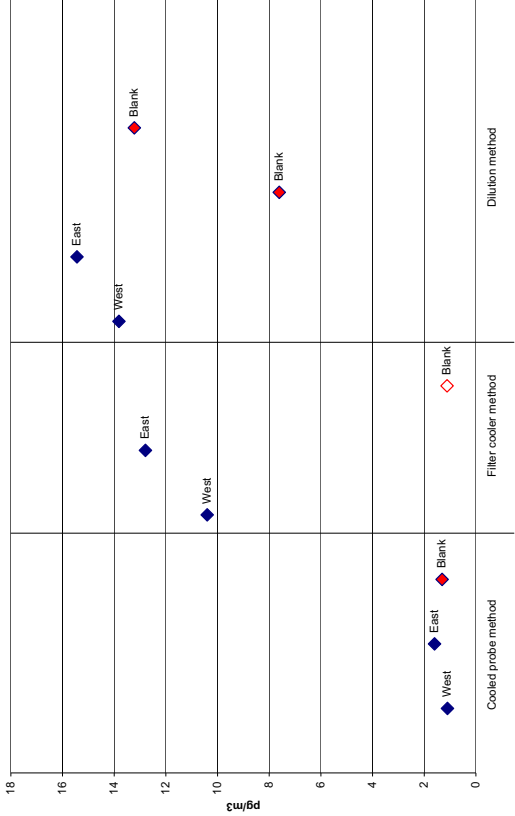
PCB 114 Day 4



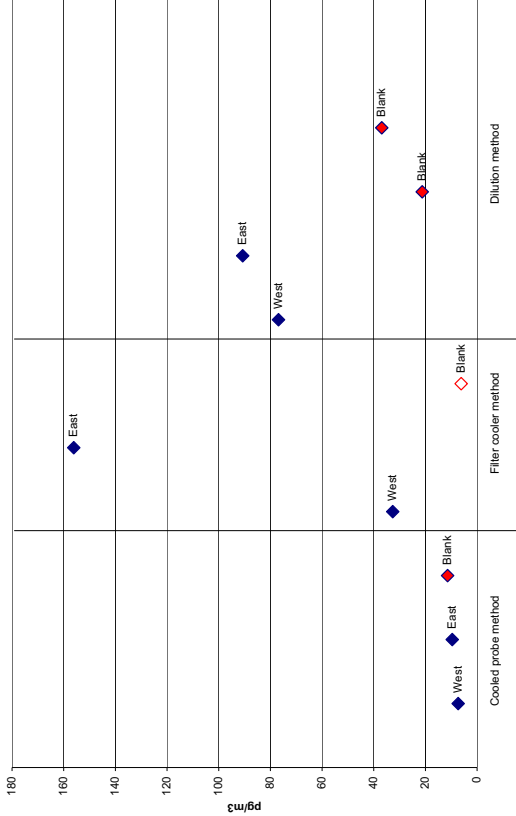
PCB 118 Day 4



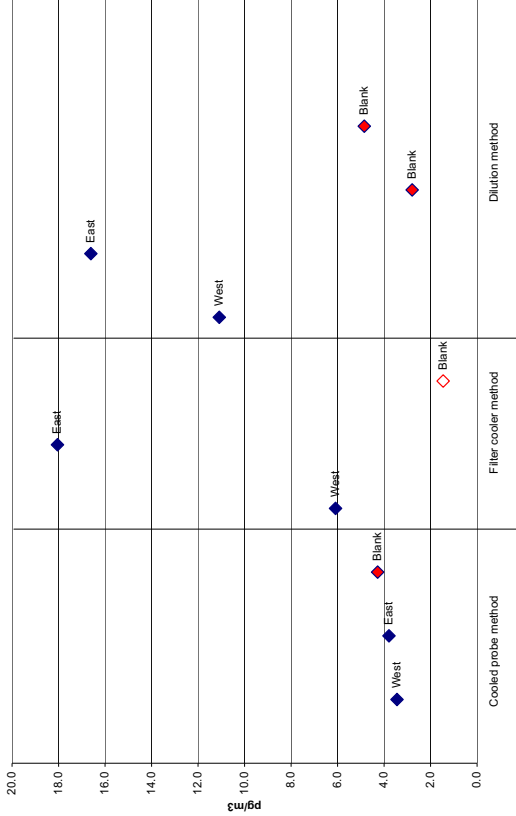
PCB 123 Day 4



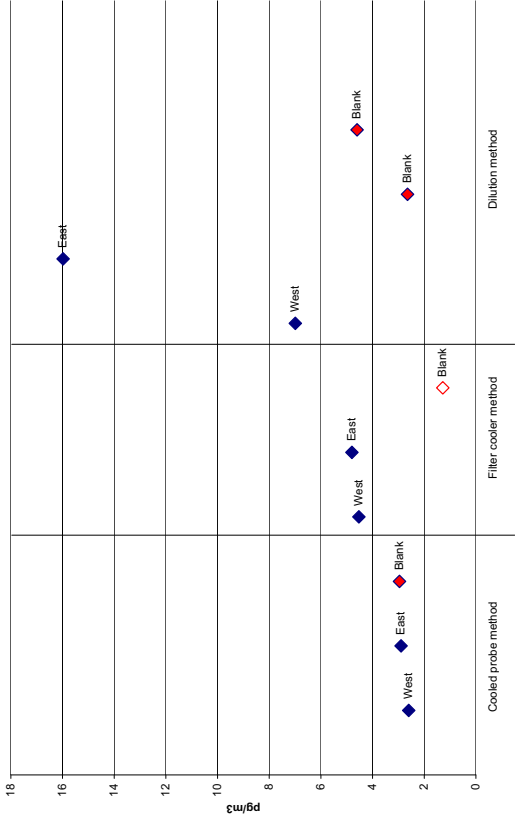
PCB 156 Day 4



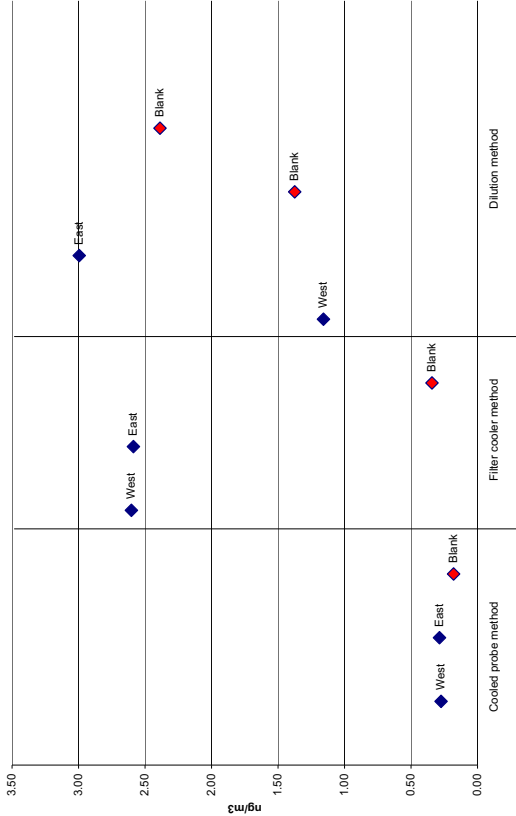
PCB 157 Day 4



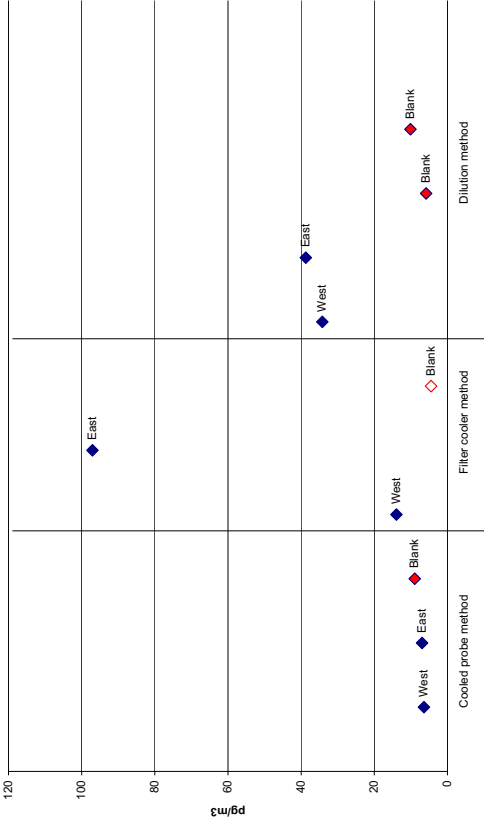
PCB 189 Day 4



PCB 52 Day 4



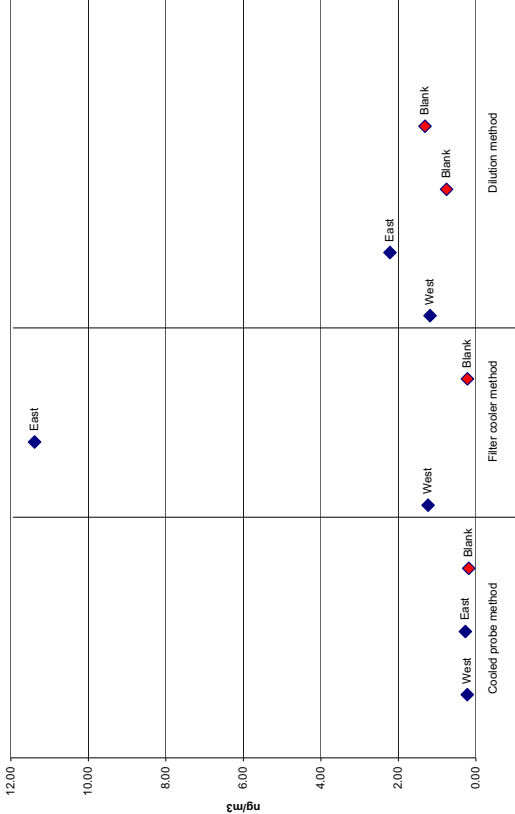
PCB 167 Day 4



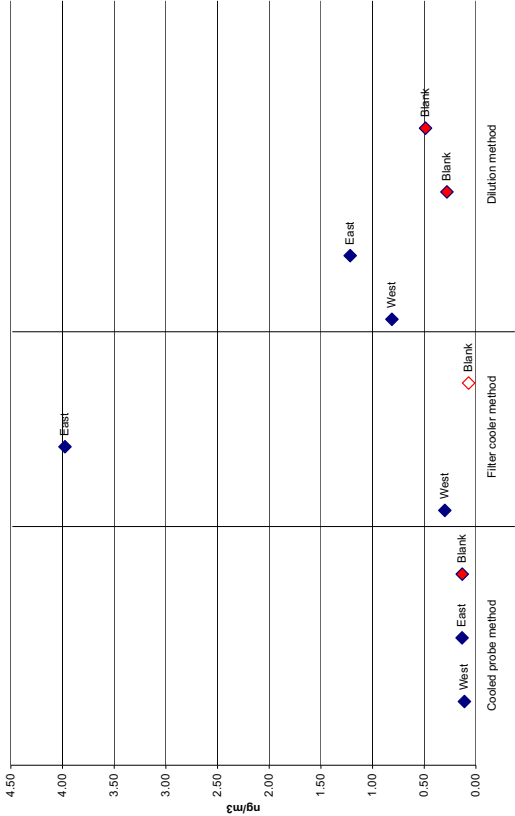
PCB 28 Day 4



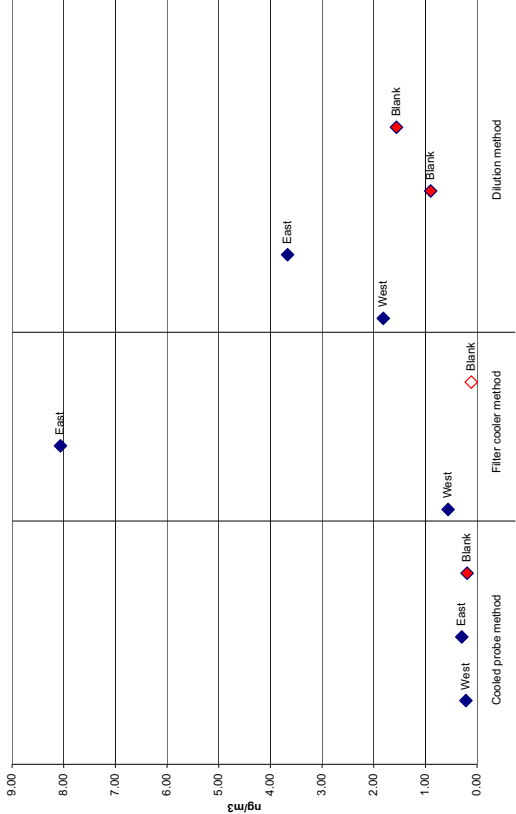
PCB 101 Day 4



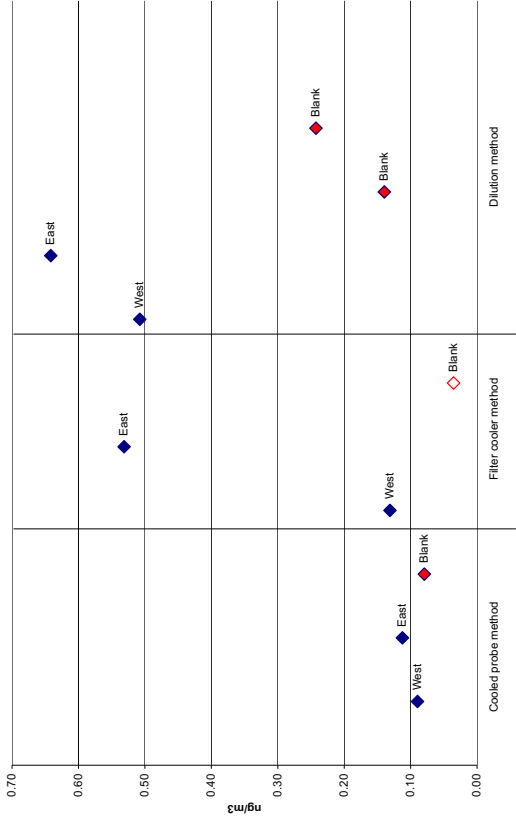
PCB 138 Day 4



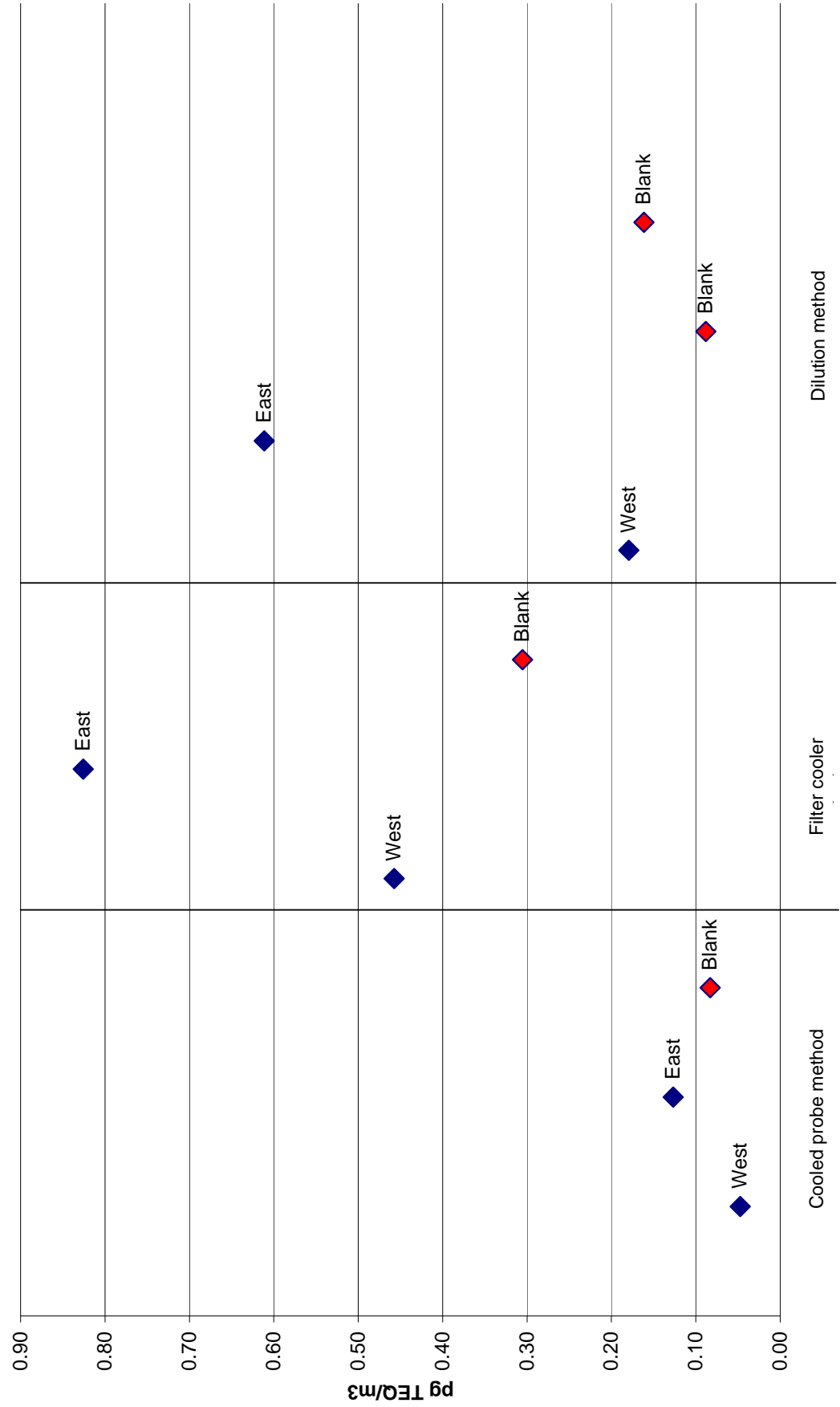
PCB 153 Day 4



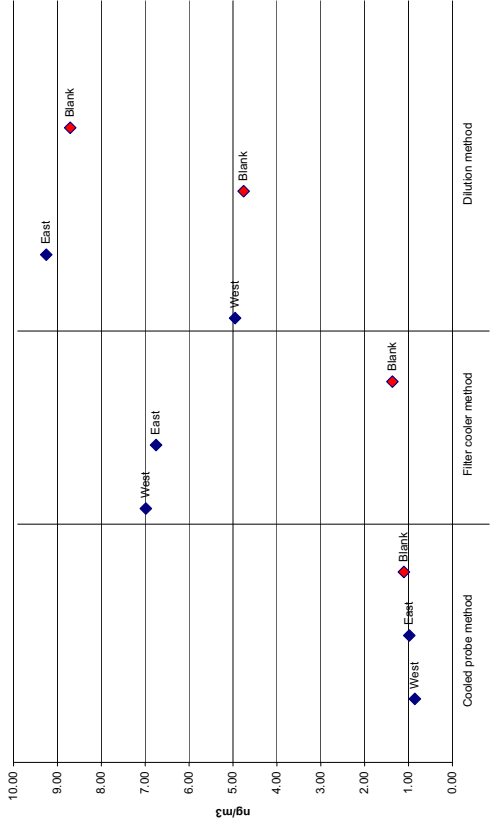
PCB 180 Day 4



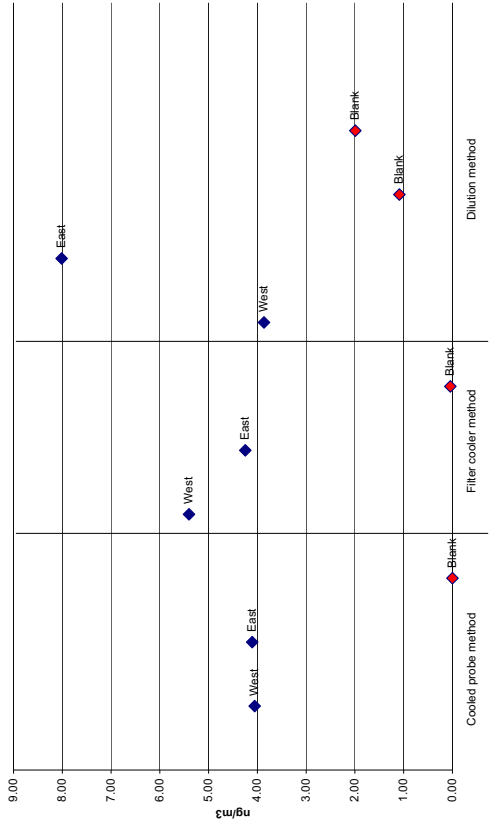
PCB WHO TEQ Day 5



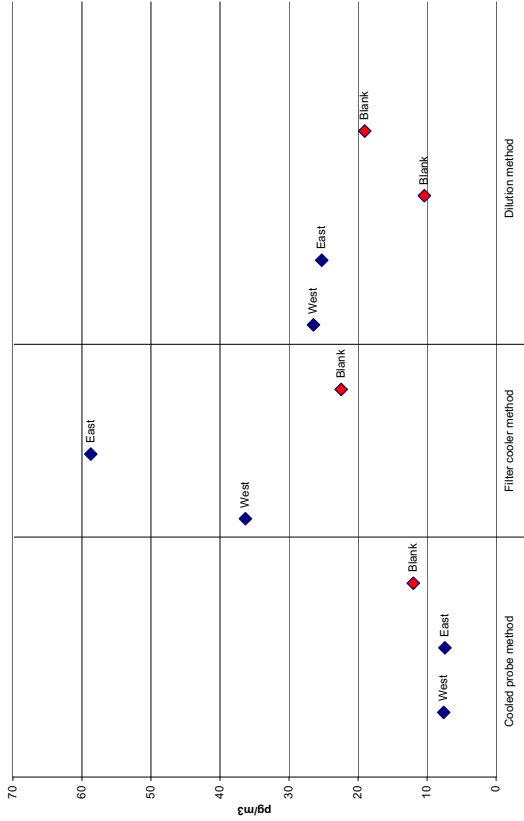
Marker PCBs Day 5



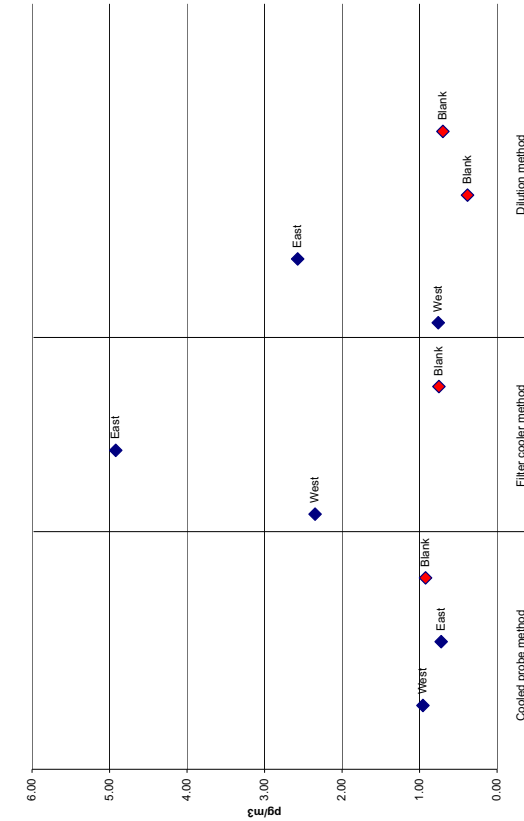
HCB Day 5



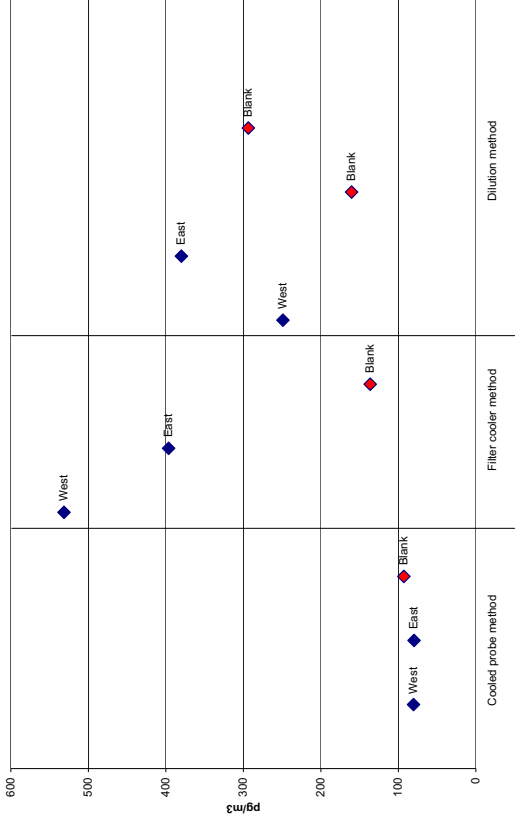
PCB 77 Day 5



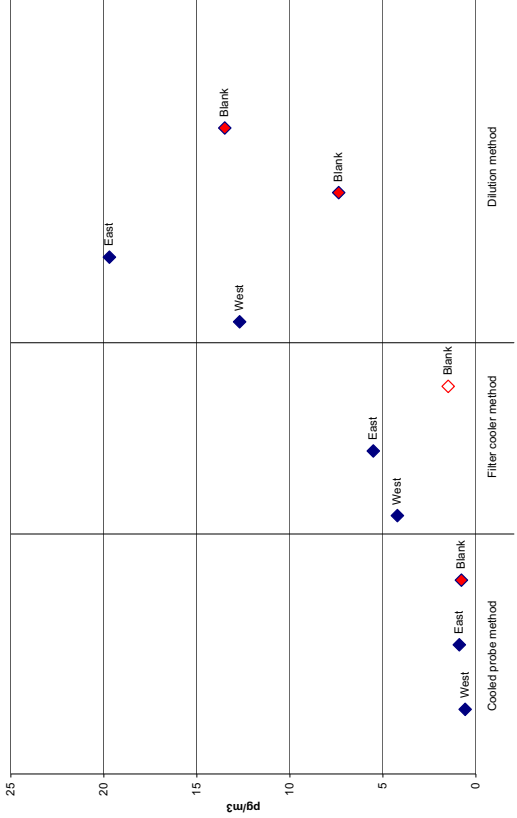
PCB 81 Day 5



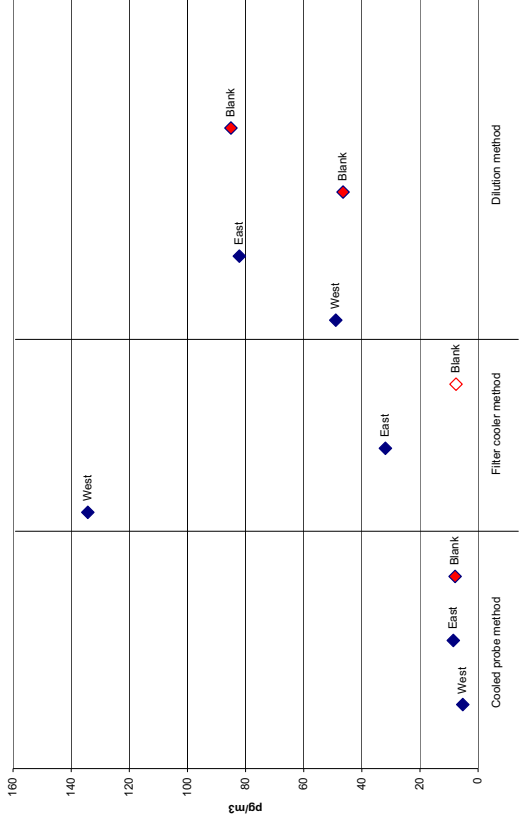
PCB 118 Day 5



PCB 123 Day 5



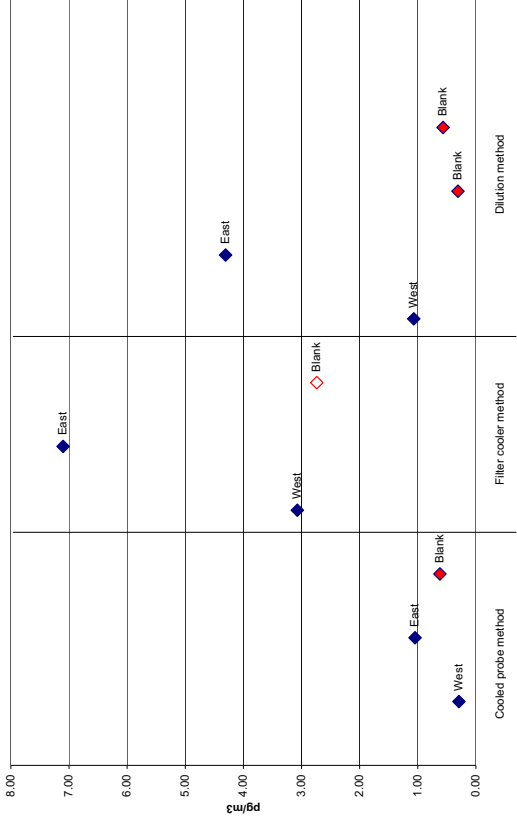
PCB 156 Day 5



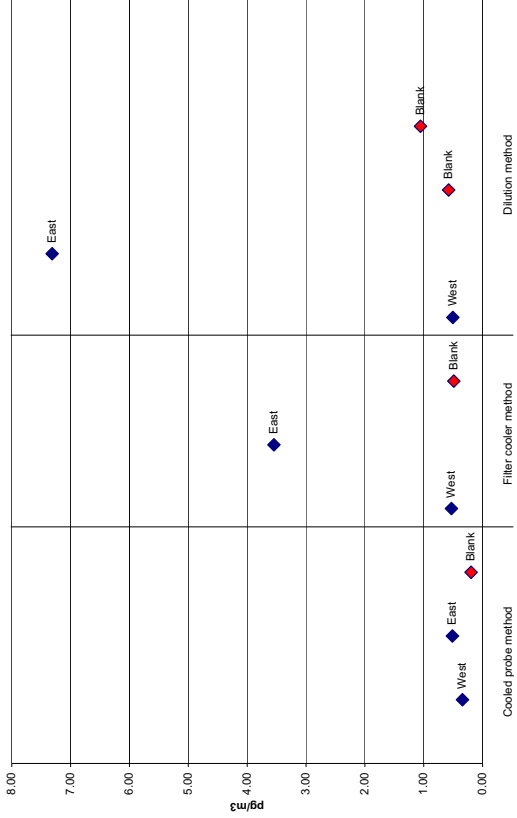
PCB 157 Day 5



PCB 126 Day 5



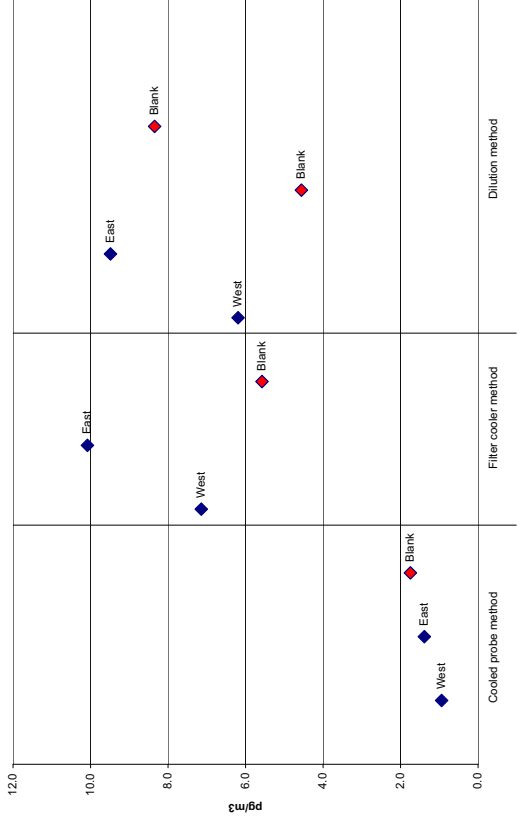
PCB 169 Day 5



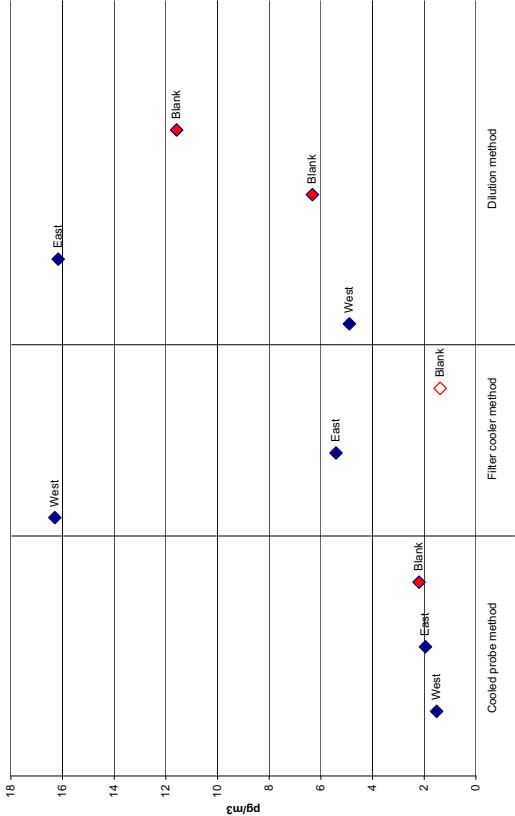
PCB 105 Day 5



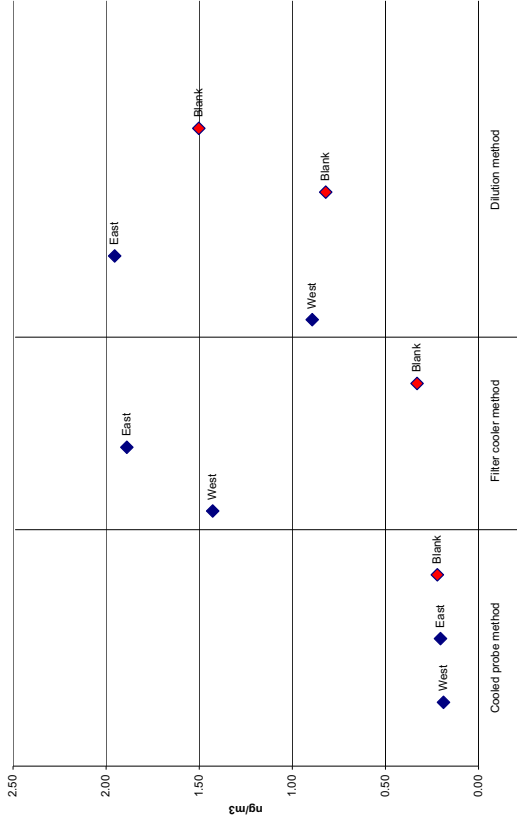
PCB 114 Day 5



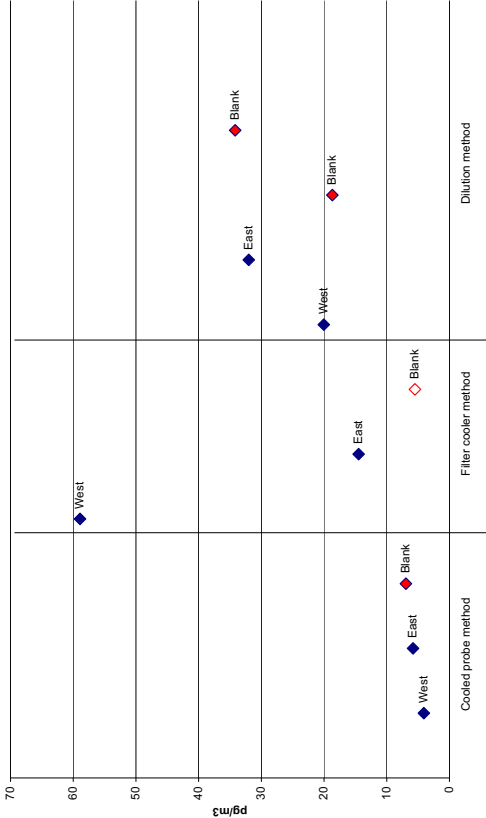
PCB 189 Day 5



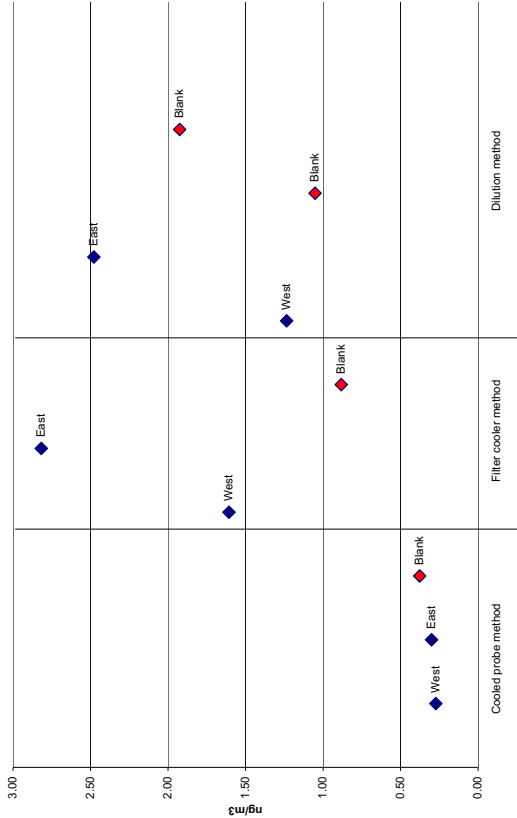
PCB 52 Day 5



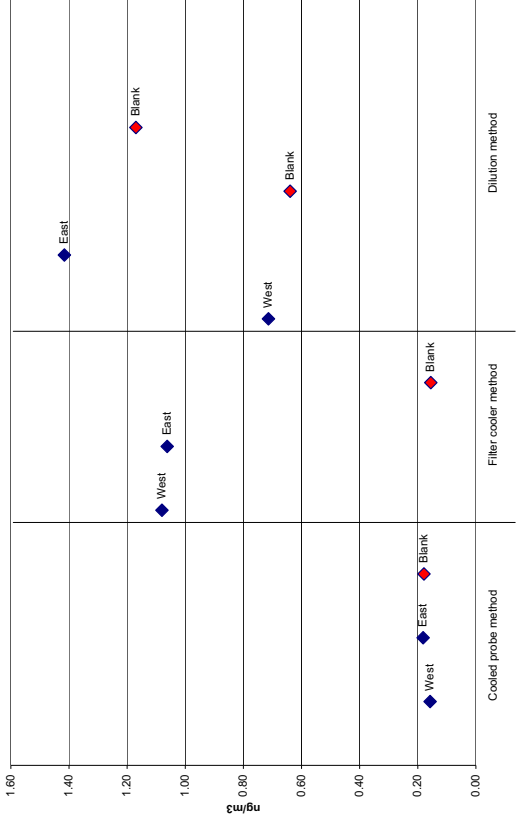
PCB 167 Day 5



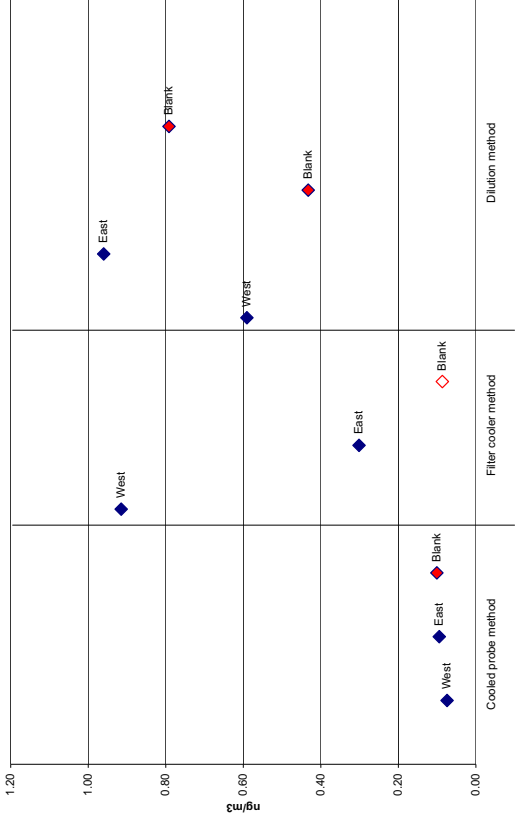
PCB 28 Day 5



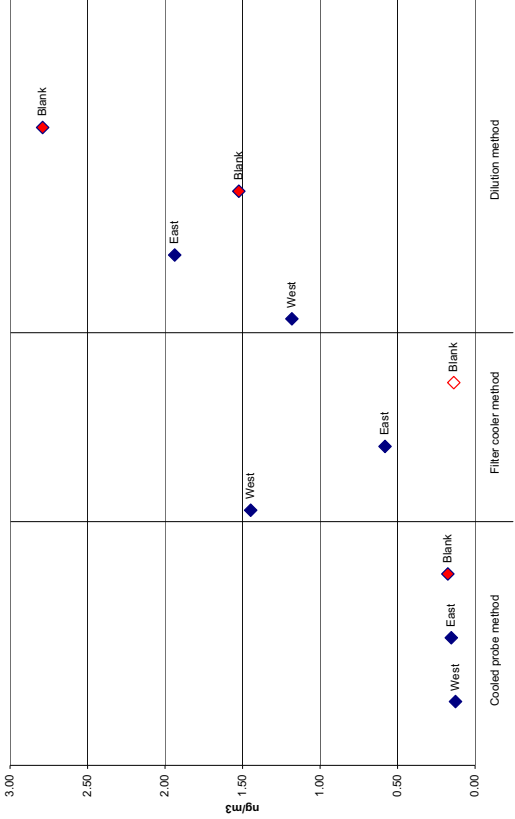
PCB 101 Day 5



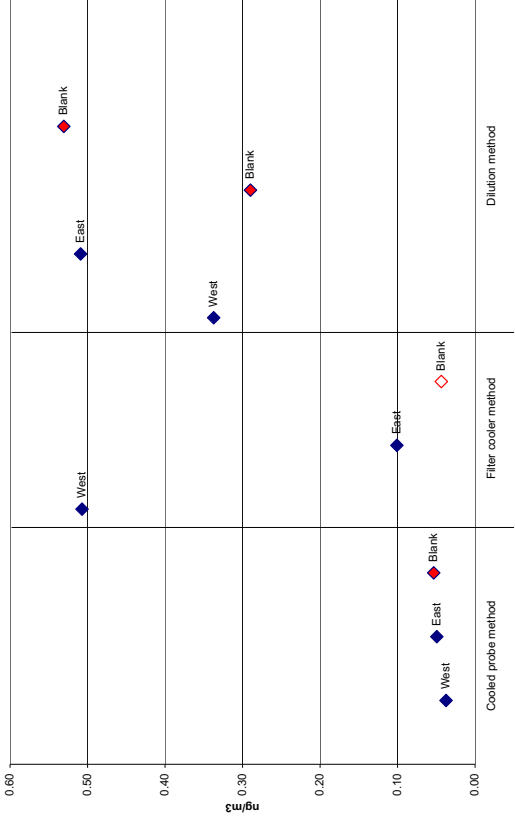
PCB 138 Day 5



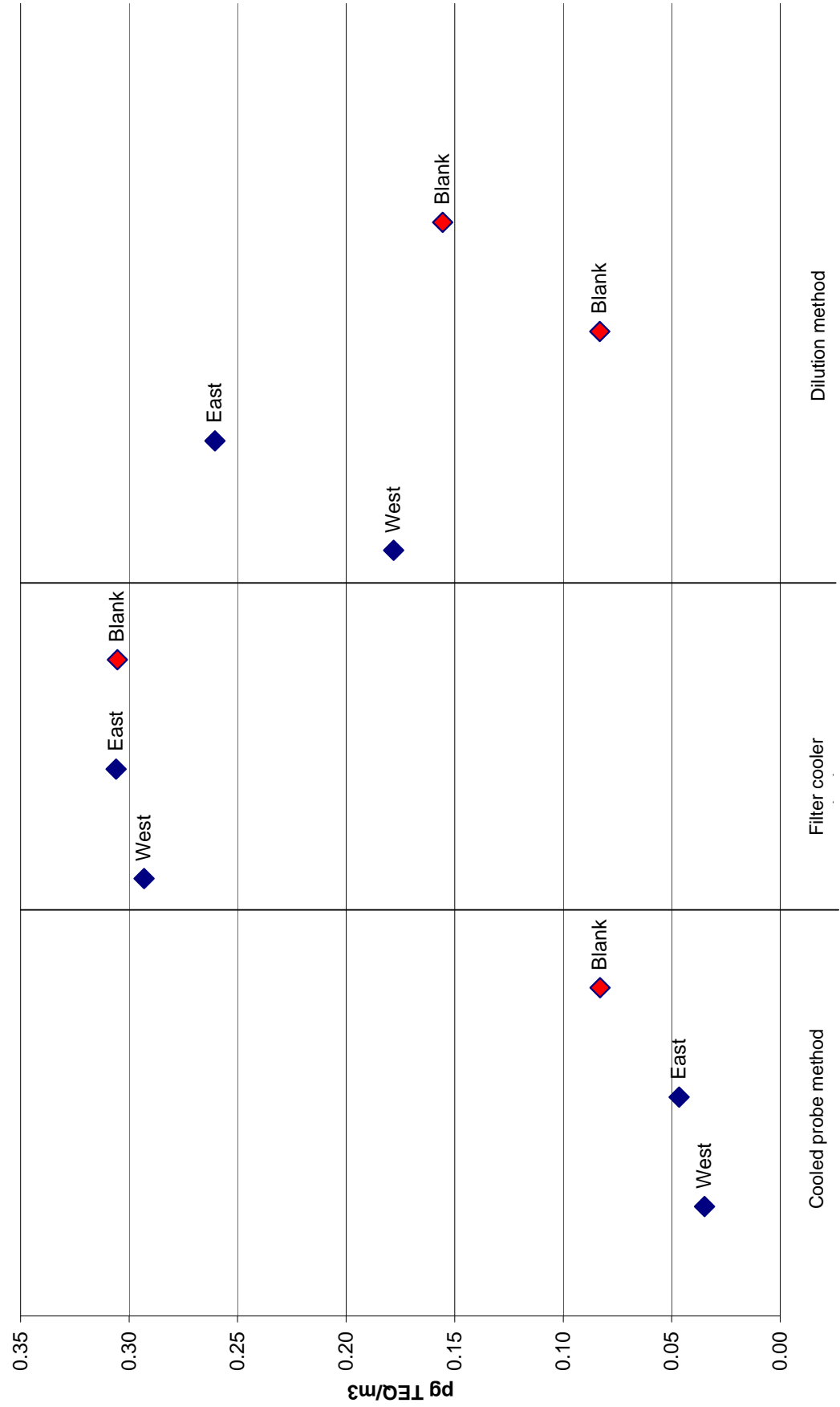
PCB 153 Day 5



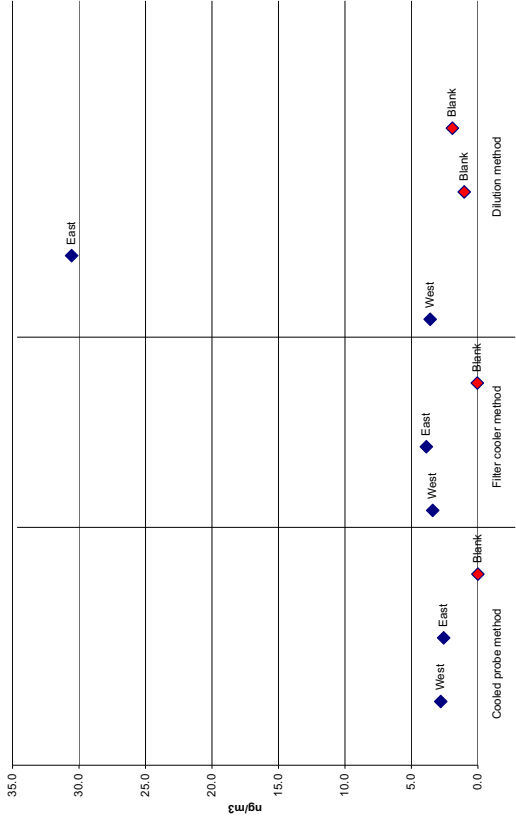
PCB 180 Day 5



PCB WHO TEQ Day 6



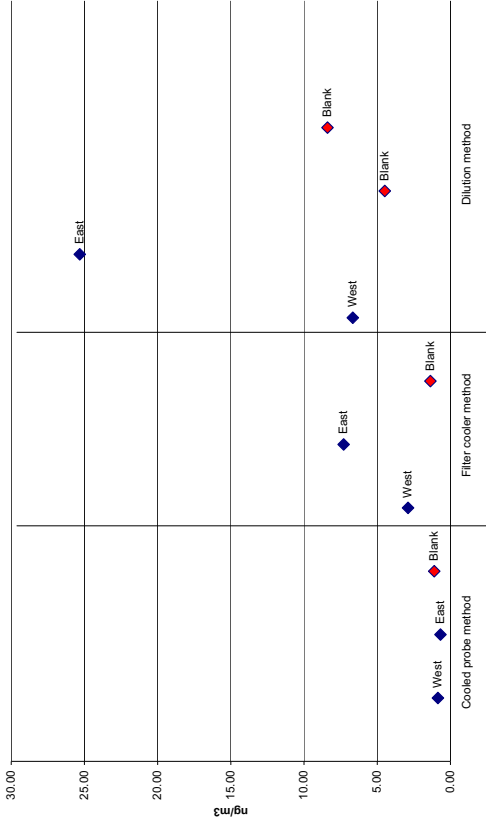
HCB Day 6



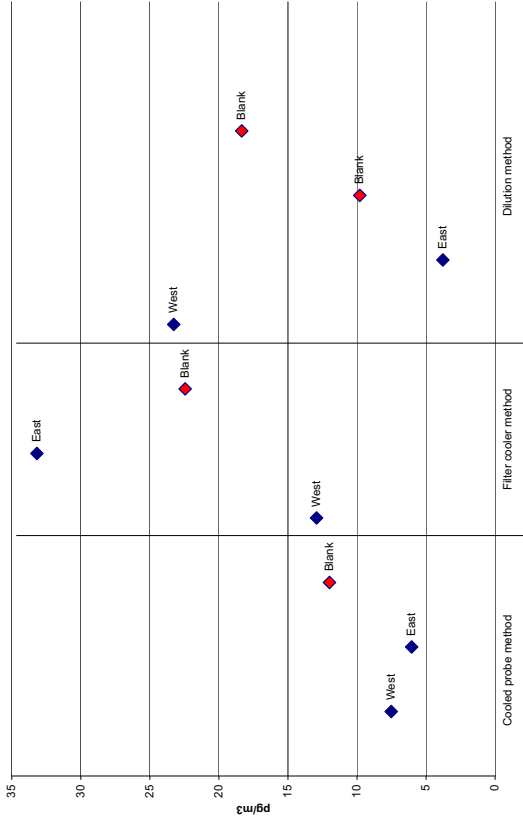
PCB 81 Day 6



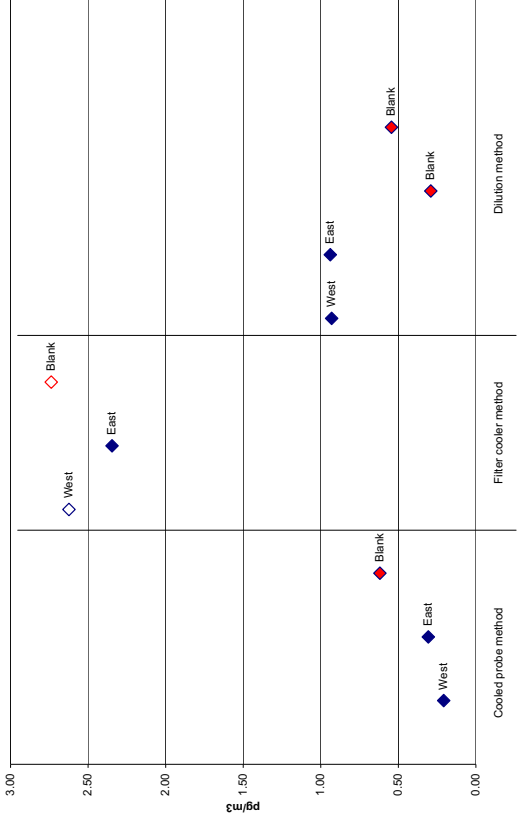
Marker PCBs Day 6



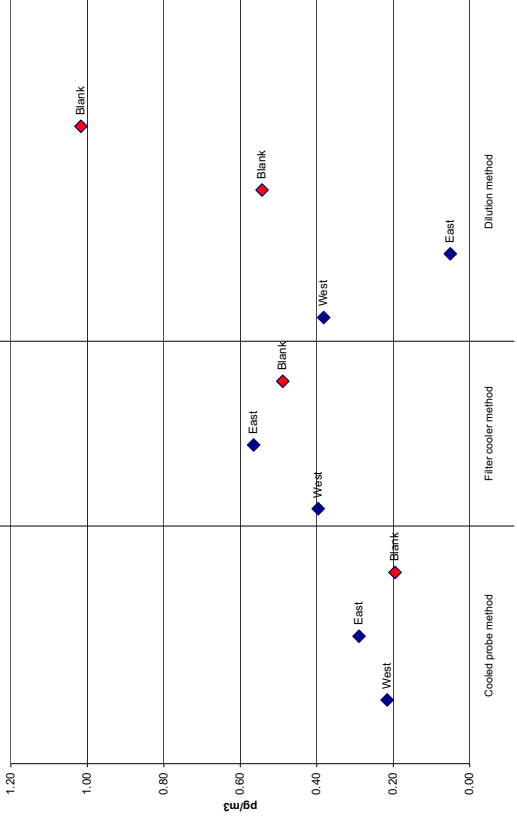
PCB 77 Day 6



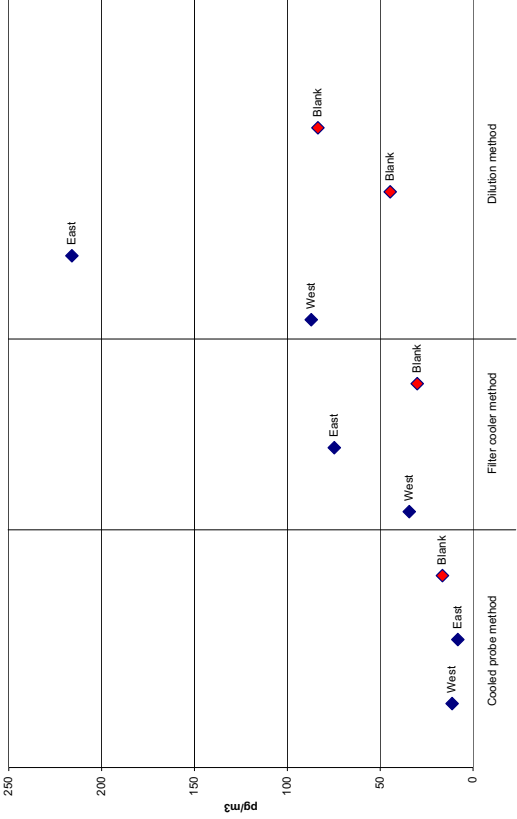
PCB 126 Day 6



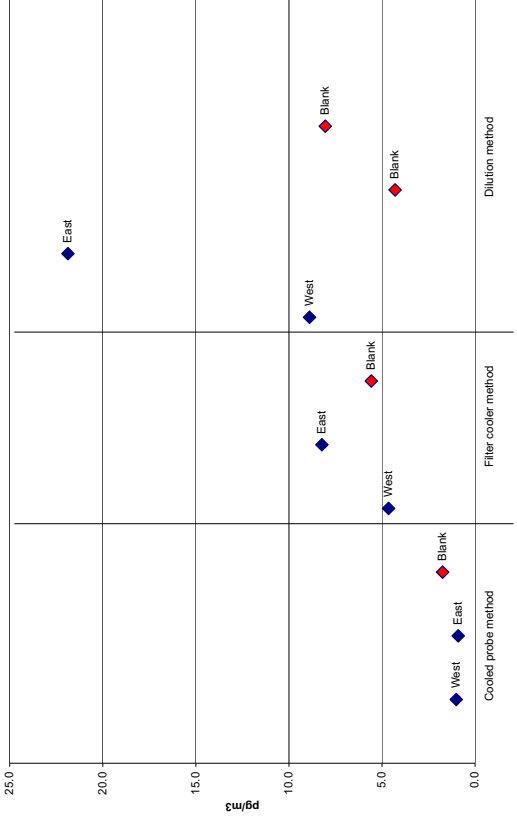
PCB 169 Day 6



PCB 105 Day 6



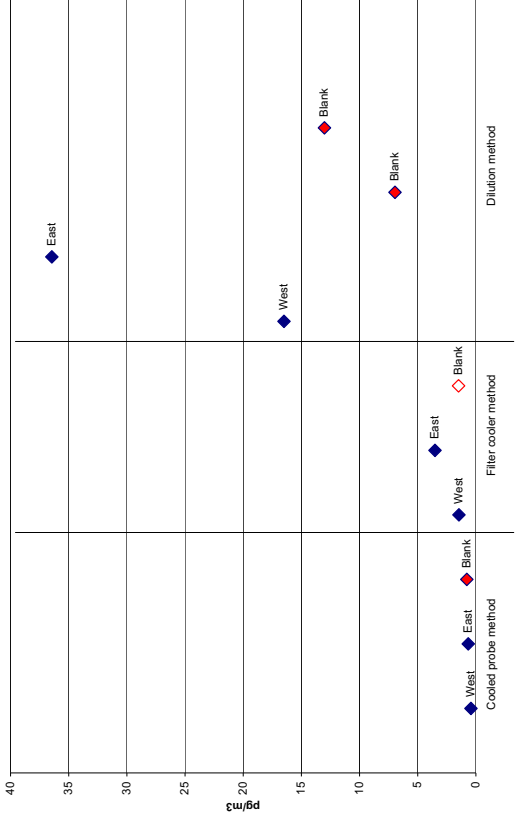
PCB 114 Day 6



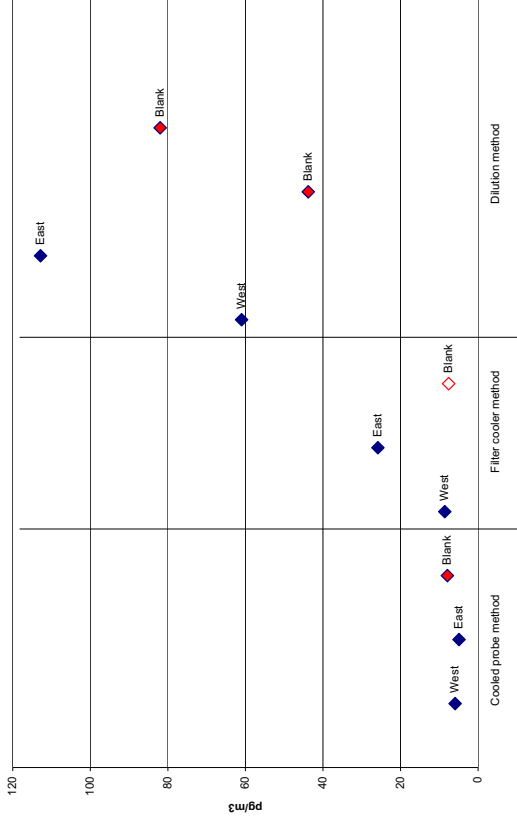
PCB 118 Day 6



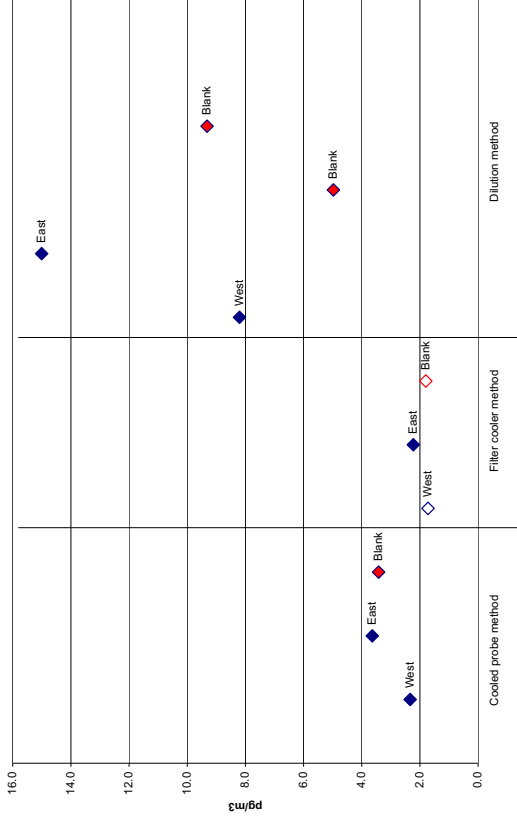
PCB 123 Day 6



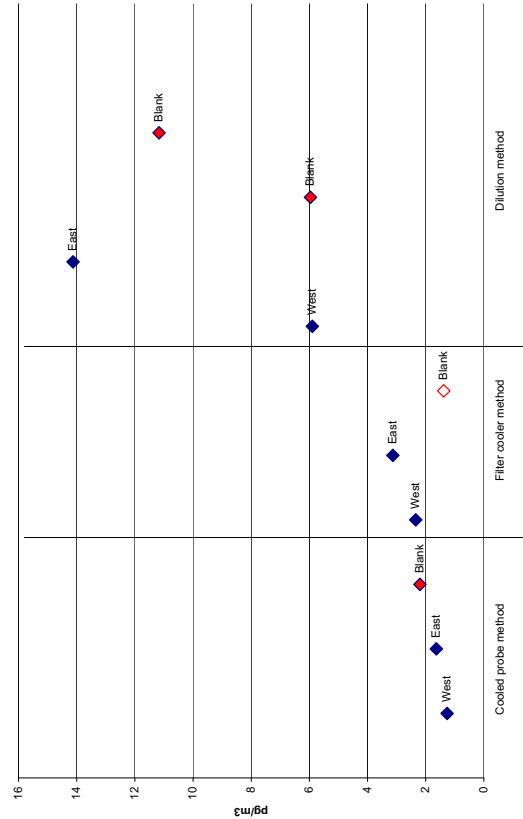
PCB 156 Day 6



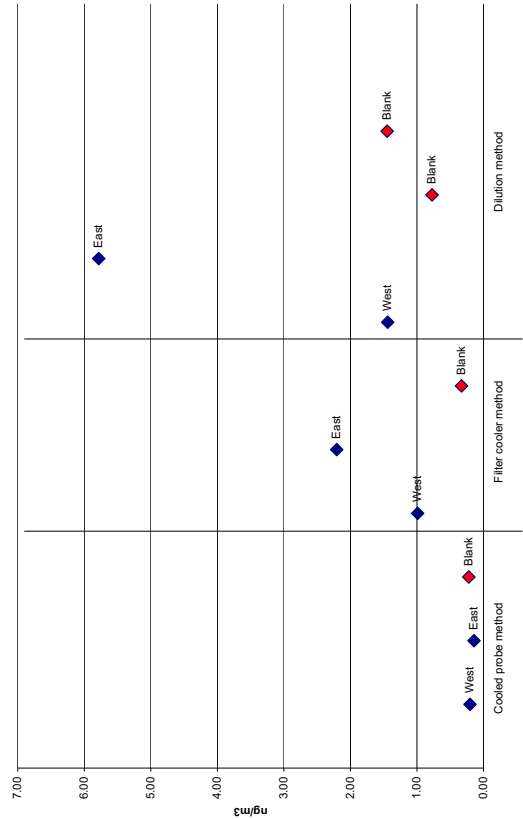
PCB 157 Day 6



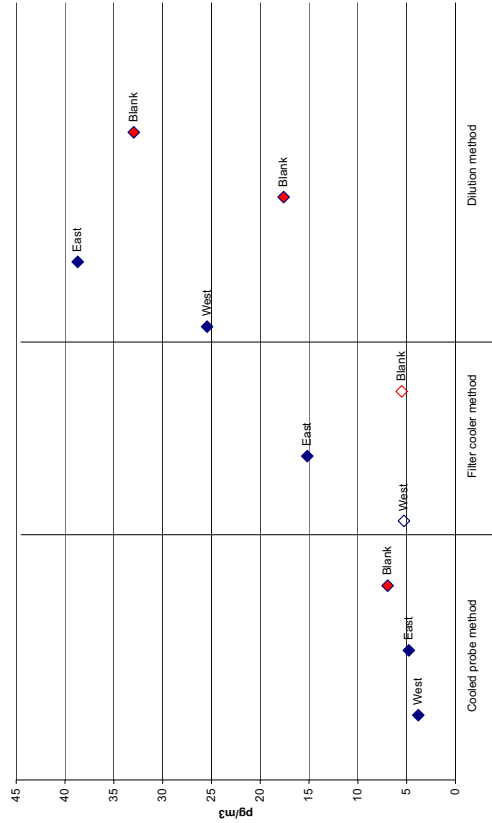
PCB 189 Day 6



PCB 52 Day 6



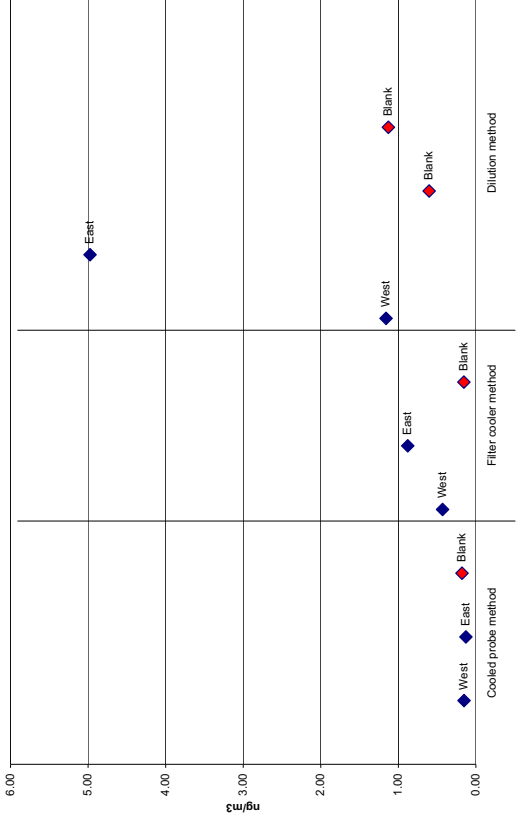
PCB 167 Day 6



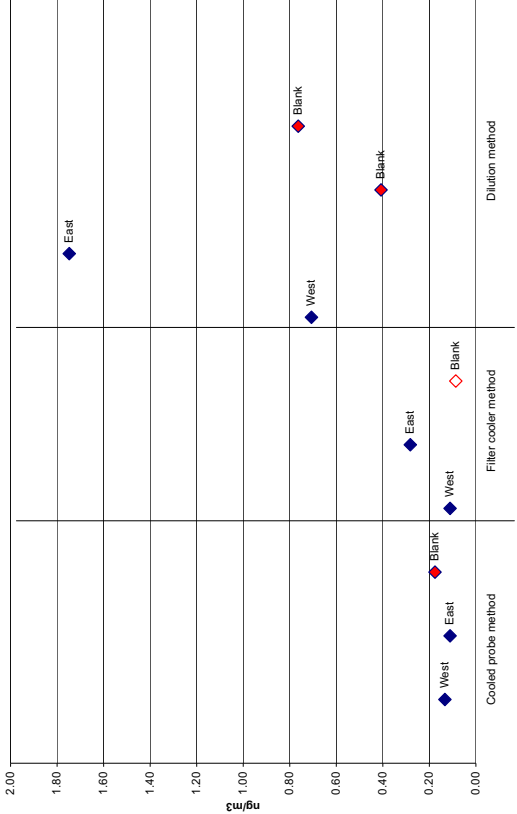
PCB 28 Day 6



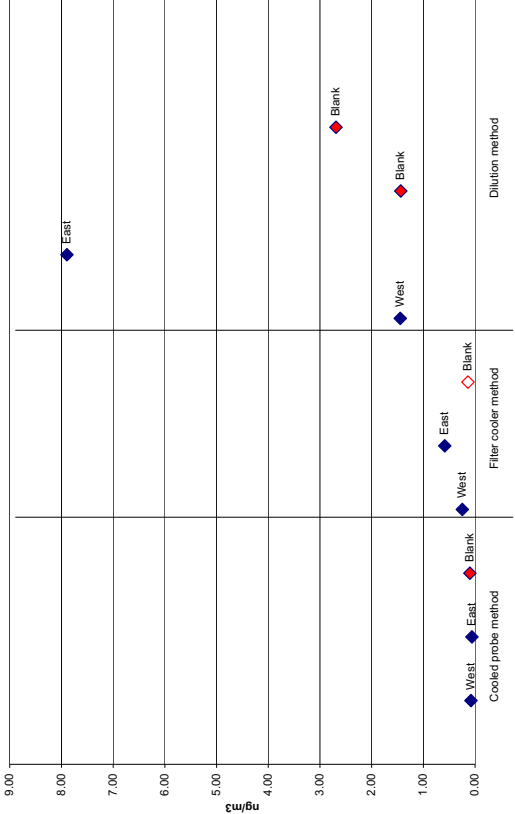
PCB 101 Day 6



PCB 138 Day 6



PCB 153 Day 6



PCB 180 Day 6

