

Table S3. Average pesticide concentrations detected in irrigation water ($\mu\text{g/L}$), plant ($\mu\text{g/kg}$) and soil ($\mu\text{g/kg}$ dry weight, d.w.) in carrot crop (*Daucus carota*) (n=3)

| Compound | CARROT | | | | | | | |
|-----------------|-----------------------------|---------------|------------------------------|---------------|------------------------------|---------------|------------------------------|---------------|
| | WATER | | ROOT | | LEAF | | SOIL | |
| | $\mu\text{g/L}$ (RSD,%)* | μg | $\mu\text{g/kg}$ (RSD,%)* | μg | $\mu\text{g/kg}$ (RSD,%)* | μg | $\mu\text{g/kg}$ (RSD,%)* | μg |
| Thiacloprid | 1.2 (1) | 1.368 | 0.3 (1) | 2.1 | 0.4 (1) | 2.0 | 1.0 (5) | 340 |
| Carbendazim | 0.8 (2) | 912 | 0.3 (3) | 1.9 | 0.5 (2) | 2.5 | 1.0 (4) | 340 |
| Diuron | 0.9 (2) | 1.026 | 0.5 (2) | 3.0 | 0.2 (4) | 1.0 | 1.4 (5) | 476 |
| Thiabendazol | 1.1 (1) | 1.284 | 0.6 (1) | 3.5 | 0.2 (1) | 1.0 | 2.0 (3) | 680 |
| DEET | 1.3 (1) | 1.529 | - | - | - | - | - | - |
| Azoxystrobin | 0.7 (2) | 798 | 0.2 (2) | 1.3 | 0.2 (2) | 1.0 | 1.0 (3) | 340 |
| Imazalil | 0.8 (3) | 912 | 0.1 (3) | 0.1 | - | - | 1.7 (2) | 578 |
| Malathion | 0.8 (1) | 912 | 0.3 (5) | 1.9 | 0.2 (2) | 1.0 | 1.0 (3) | 340 |
| Myclobutanil | 1.4 (1) | 1.631 | 1.1 (4) | 7.2 | 0.3 (3) | 1.5 | 3.0 (6) | 1.020 |
| Fluxapyroxad | 1.3 (2) | 1.482 | 1.3 (2) | 8.2 | 1.0 (5) | 5.0 | 3.2 (5) | 1.088 |
| Methiocarb | 0.5 (2) | 570 | - | - | - | - | - | - |
| Diazinon | 0.5 (3) | 570 | 0.4 (3) | 2.5 | 0.2 (2) | 1.0 | 1.2 (6) | 408 |
| Penconazole | 1.4 (1) | 1.596 | 1.3 (1) | 8.1 | 0.8 (2) | 4.0 | 4.1 (2) | 1.394 |
| Chlorfenvinphos | 0.9 (2) | 1.026 | 0.1 (3) | 0.1 | - | - | 1.5 (2) | 510 |

* Relative standard deviation (R.S.D, %)