**Supplementary Data I**

**(1) Concentration of pesticides detected in Chinese kale samples bought from Local markets**

**\*MRL value (ppb) is given in the parenthesis.**

| **Sample No.** | **Pesticide Concentration (ppb)** |
| --- | --- |
| **Carba-ryl****(50)\*** | **Carbo-furan (20)\*** | **Chloro-thalonil (4000)\*** | **Chlor-pyrifos (50)\*** | **λ-Cyha-lothrin (1000)\*** | **Cyper-methrin (1000)\*** | **Delta-methrin (500)\*** | **Dia-zinon (50)\*** | **Dime-thoate (20)\*** | **Mala-thion (3000)\*** | **Meta-laxyl (2000)\*** | **Metho-myl** | **Profe-nofos (10)\*** |
| 1 |   |   |   |   |   |   |   |   |   |   | 40.0 |   |   |
| 2 |   |   |   |   |   |   |   | 0.08 |   |   | 0.12 |   | 341 |
| 3 |   |   |   |   |   |   |   |   |   |   | 1.12 |   |   |
| 4 |   |   |   |   |   |   |   |   |   |   | 0.12 |   | 72.1 |
| 5 |   |   |   |   |   |   |   |   |   |   | 12.7 |   |   |
| 6 |   |   |   |   |   |   |   | 0.01 |   |   | 1.13 |   |   |
| 7 |   |   |   |   |   |   |   |   |   |   | 5.5 |   |   |
| 8 |   |   |   |   |   |   |   |   |   |   | 0.16 |   | 68.5 |
| 9 |   |   |   |   |   |   |   | 0.20 | 21.4 |   | 0.50 |   |   |
| 10 |   |   |   | 7.2 |   |   |   |   | 28.3 |   | 3.33 |   |   |
| 11 |   |   |   |   |   |   |   | 0.25 | 26.5 |   | 0.36 |   |   |
| 12 |   |   |   |   |   |   |   |   | 20.0 |   |   |   |   |
| 13 |   |   |   | 37691 |   | 809 |   |   | 33.5 | 292 | 122 |   |   |
| 14 |   |   |   | 24.9 |   |   |   | 1.12 | 33.2 |   | 0.45 |   |   |
| 15 |   | 62.5 |   |   |   |   |   | 0.25 | 32.0 |   |   |   |   |
| 16 |   |   |   |   |   |   |   | 0.30 | 4.85 |   | 0.39 |   |   |
| 17 |   |   |   |   |   |   |   | 13.6 | 13.6 |   | 0.35 |   |   |
| 18 |   |   |   |   |   |   |   | 6.09 |   |   | 0.59 |   | 1993 |
| 19 |   |   |   |   |   |   |   |   | 5.8 |   | 0.08 |   | 26.6 |
| 20 | 3.61 | 0.30 |   |   |   |   |   | 21.4 | 10.5 |   | 5.7 |   | 122 |
| 21 | 3.78 |   |   |   |   | 189 |   |   | 20.1 |   | 1.10 |   |   |
| 22 | 0.75 |   |   |   |   |   |   |   | 22.5 |   | 0.62 |   |   |
| 23 | 1.29 |   |   |   |   | 5776 |   |   | 52.6 |   | 0.43 |   |   |
| 24 | 1.64 |   |   |   |   |   |   |   | 21.3 |   | 1.00 |   |   |
| 25 | 1.41 |   |   |   |   |   |   |   | 41.2 |   | 1.00 |   |   |
| 26 | 1.64 |   |   |   |   |   |   | 1.48 | 23.3 |   | 1.10 |   |   |
| 27 | 1.56 |   |   |   |   |   |   | 2.77 | 27.7 |   | 10.7 |   |   |
| 28 | 0.08 | 0.14 |   |   |   |   |   |   | 35.4 |   | 0.23 |   | 29.8 |
| 29 |   |   |   |   |   |   |   | 0.64 | 240 |   |   |   |   |
| 30 |   |   |   |   |   |   |   |   |   |   | 0.81 |   | 36.5 |
| 31 | 9.7 | 0.01 |   |   |   |   |   | 0.06 | 51.2 |   | 0.05 |   |   |
| 32 | 1.96 |   |   |   |   |   |   | 0.14 | 54.7 |   | 0.44 |   |   |
| 33 | 3.05 |   |   |   |   |   |   |   | 60.2 |   | 0.92 |   |   |
| 34 | 0.57 | 0.07 |   |   |   |   |   | 0.35 | 54.3 |   |   |   |   |
| 35 |   |   |   |   |   |   |   | 9.8 | 37.2 |   | 0.45 |   |   |
| 36 |   | 0.06 |   |   |   |   |   | 5.4 | 83.8 |   | 21.5 |   |   |
| 37 |   |   |   |   |   |   |   | 9.1 | 25.5 |   |   |   | 74.5 |
| 38 |   | 0.07 |   |   |   |   |   | 0.13 | 37.1 |   | 0.81 |   |   |
| 39 |   |   |   |   |   | 98.0 |   | 0.32 | 0.97 |   | 1.31 |   | 0.24 |
| 40 |   |   |   |   |   | 92.8 |   | 1.43 | 0.95 |   | 0.93 |   | 0.93 |
| 41 |   |   |   |   |   |   |   | 0.07 | 1.01 |   | 0.09 |   | 0.13 |
| 42 |   |   |   |   |   |   |   | 0.10 | 1.30 |   | 0.25 |   | 0.12 |
| 43 |   |   |   |   |   |   |   | 0.07 | 1.19 |   | 0.29 |   | 0.08 |
| 44 |   |   |   |   |   |   |   | 0.08 | 1.71 |   | 0.27 |   |   |
| 45 |   |   |   |   |   |   |   | 0.64 | 4.40 |   | 0.16 |   |   |
| 46 |   |   |   |   |   | 96.5 |   | 0.09 | 1.63 |   | 0.82 |   |   |
| 47 |   |   |   |   |   |   |   | 0.13 | 2.33 |   | 0.10 |   |   |
| 48 |   |   |   |   |   |   |   | 0.13 | 2.34 |   | 0.05 |   |   |
| 49 |   |   |   |   |   |   |   |   |   |   | 0.09 |   | 0.11 |
| 50 |   |   |   |   |   | 83.6 |   | 0.20 | 1.27 |   | 0.35 |   | 27.2 |
| 51 |   |   |   |   |   | 111 |   | 0.08 | 1.51 |   | 1.09 |   | 0.08 |
| 52 |   |   |   |   |   |   |   | 0.16 | 1.24 |   | 0.29 |   | 0.11 |
| 53 |   |   |   |   |   | 87.0 |   | 0.24 | 0.95 |   | 1.30 |   | 0.31 |
| 54 |   |   |   |   |   | 99.5 |   | 0.12 | 1.89 |   | 0.75 |   | 2.00 |
| 55 |   |   |   |   |   | 86.1 |   | 2.52 | 6.0 |   | 3.75 |   |   |
| 56 |   |   |   |   |   |   |   |   | 2.79 |   | 6.6 |   | 0.92 |
| 57 |   |   |   |   |   |   |   | 0.96 | 9.7 |   | 1.88 |   |   |
| 58 |   |   |   |   |   |   |   |   | 3.07 |   | 219 |   |   |
| 59 |   |   |   |   |   |   |   |   |   |   | 6.3 |   |   |
| 60 |   |   |   |   |   |   |   |   |   |   | 1.43 |   |   |
| 61 |   |   |   |   | 33.5 |   |   |   |   |   | 1.43 |   |   |
| 62 |   |   |   |   | 33.5 |   |   |   | 1.78 |   | 2.02 |   |   |
| 63 |   |   |   |   |   |   |   | 0.47 | 3.18 |   | 0.51 |   |   |
| 64 |   |   |   |   |   |   |   | 0.24 | 4.11 |   | 0.95 |   |   |
| 65 |   |   |   |   |   |   |   |   | 5.4 |   |   |   |   |
| 66 |   |   |   |   |   |   |   | 0.94 | 5.9 |   | 488 |   |   |
| 67 |   |   |   |   |   |   |   | 4.29 | 2.44 |   | 167 |   | 8.6 |
| 68 |   |   |   |   |   |   |   | 3.42 | 18.4 |   | 77.5 |   | 53.2 |
| 69 |   |   |   |   |   |   |   | 1.39 | 10.9 |   | 98.9 |   |   |

1. **Concentration of pesticides detected in Pakchoi samples bought from Local markets.**

| **Sample No.** | **Pesticide Concentration (ppb)** |
| --- | --- |
| **Carba-ryl****(50)\*** | **Carbo-furan****(20)\*** | **Chloro-thalonil** | **Chlor-pyrifos****(1000)\*** | **λ-Cyha-lothrin****(1000)\*** | **Cyper-methrin****(1000)\*** | **Delta-methrin** | **Dia-zinon****(50)\*** | **Dime-thoate****(20)\*** | **Mala-thion** | **Meta-laxyl****(50)\*** | **Metho-myl** | **Profe-nofos****(50)\*** |
| 1 | 5.5 |   |   | 96.6 |   |   |   | 1.30 | 57.4 |   | 8.8 |   | 24.3 |
| 2 |   | 1.05 |   |   |   |   |   | 0.97 | 46.2 |   | 5.9 |   | 6.9 |
| 3 |   |   |   |   | 104 | 92.5 |   |   | 36.2 |   | 3.22 |   |   |
| 4 |   |   |   |   |   |   |   |   | 32.8 |   | 6.7 |   | 0.59 |
| 5 |   | 0.19 |   |   |   |   |   | 2.63 | 74.2 |   | 2.25 |   |   |
| 6 |   |   |   |   |   |   |   | 1.85 | 185 |   | 4.45 |   |   |
| 7 |   |   |   |   |   |   |   | 1.37 | 208 |   | 2.34 |   |   |
| 8 |   |   |   |   |   | 2785 |   | 2.13 | 207 |   | 3.58 |   |   |
| 9 |   |   |   |   |   |   |   | 0.67 | 86.3 |   | 8.1 |   |   |
| 10 | 7.2 |   |   |   |   | 298 |   | 5.8 | 415 |   | 6170 |   |   |
| 11 |   |   |   |   |   | 469 |   | 3.34 | 309 |   | 3.67 |   |   |
| 12 |   |   |   |   |   | 978 |   | 4.57 | 148 |   | 8.8 |   |   |
| 13 |   |   |   |   |   |   |   | 0.59 | 27.6 |   | 5.4 |   |   |
| 14 |   |   |   |   |   | 897 |   | 2.40 | 30.1 |   | 3.81 |   |   |
| 15 |   |   |   |   |   |   |   |   | 9.8 |   | 4.03 |   |   |
| 16 |   |   |   |   |   |   |   |   | 185 |   | 4.45 |   |   |
| 17 |   |   |   |   |   |   |   |   | 2.63 |   | 1.66 |   |   |
| 18 |   |   |   |   |   |   |   |   | 11.9 |   | 0.46 |   |   |
| 19 |   |   |   |   |   |   |   |   | 4.28 |   | 0.86 |   |   |
| 20 |   |   |   | 325 |   | 203 |   | 0.69 | 4.93 |   | 0.58 |   |   |
| 21 |   |   |   |   |   |   |   |   | 10.5 |   | 0.77 |   |   |
| 22 |   |   |   |   |   |   |   |   | 4.20 |   | 0.95 |   | 3.72 |
| 23 |   |   |   |   |   |   |   |   | 40.8 |   | 0.69 |   |   |
| 24 |   |   |   |   |   | 4846 |   |   | 3.48 |   | 1.15 |   |   |
| 25 |   |   |   |   |   |   |   |   | 31.1 |   |   |   |   |
| 26 |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 27 |   |   |   |   |   |   |   |   | 3.66 |   | 0.16 |   |   |
| 28 |   |   |   |   |   |   |   |   | 21.6 |   | 0.23 |   |   |
| 29 |   |   |   |   |   |   |   |   | 5.8 |   | 0.41 |   |   |
| 30 |   |   |   |   |   |   |   |   | 10.6 |   | 0.43 |   |   |
| 31 |   | 0.25 |   |   |   |   |   | 3.75 | 22.3 |   | 26.3 |   |   |
| 32 |   |   |   |   |   |   |   |   | 34.0 |   | 19.2 |   |   |
| 33 |   | 8.66 |   |   | 21.7 |   |   |   | 32.4 |   | 113 |   |   |
| 34 |   | 0.91 |   | 15.5 |   |   |   | 2.59 | 51.1 |   | 68.4 |   |   |
| 35 |   | 1.00 |   |   |   |   |   | 4.01 | 41.2 |   | 84.6 |   | 7016 |
| 36 |   | 5.43 |   |   |   |   |   |   | 17.9 |   | 74.0 |   | 10.4 |
| 37 |   |   |   |   |   |   |   |   | 9.8 |   | 18.5 |   |   |
| 38 |   |   |   |   |   |   |   |   | 38.9 |   | 22.1 |   |   |
| 39 |   |   |   |   |   |   |   | 0.62 | 24.5 |   | 12.2 |   |   |
| 40 |   |   |   |   |   |   |   | 0.47 | 18.7 |   | 8.0 |   |   |
| 41 |   |   |   |   |   |   |   | 2.96 | 14.9 |   | 29.4 |   |   |
| 42 |   |   |   |   |   |   |   | 1.43 | 5.9 |   | 14.9 |   |   |
| 43 |   |   |   |   |   |   |   | 2.42 | 27.2 |   | 17.8 |   | 290 |
| 44 | 514 |   |   | 2339 |   | 784 |   | 0.76 | 5.3 |   | 5.5 |   | 0.53 |
| 45 |   | 0.43 |   |   |   |   |   | 1.81 | 152 |   | 17.8 |   | 1.31 |
| 46 |   |   |   |   |   |   |   | 0.59 | 34.5 |   | 9.6 |   |   |
| 47 |   |   |   |   |   |   |   | 2.94 | 35.7 |   | 19.0 |   |   |
| 48 |   |   |   |   |   |   |   | 0.86 | 333 |   | 23.3 |   |   |
| 49 |   |   |   |   |   |   |   |   | 38.2 |   | 14.1 |   |   |
| 50 |   |   |   |   |   |   |   | 1.47 | 25.6 |   | 77.9 |   |   |
| 51 |   |   |   |   |   |   |   | 1.38 | 13.0 |   | 88.2 |   |   |
| 52 |   |   |   | 4656 |   |   |   | 0.70 | 17.6 |   | 35.9 |   |   |
| 53 |   |   |   |   |   |   |   |   | 32.0 |   | 68.8 |   |   |
| 54 |   |   |   |   |   |   |   | 1.18 | 14.4 |   | 36.4 |   |   |
| 55 |   |   |   |   |   | 156 |   | 1.53 | 16.3 |   | 625 |   |   |
| 56 |   | 0.71 |   |   |   |   |   | 1.42 | 185 |   | 49.5 |   |   |
| 57 |   |   |   |   |   |   |   | 0.28 | 1.65 |   | 61.9 |   |   |
| 58 |   |   |   |   |   |   |   | 0.41 | 1.68 |   | 71.3 |   |   |
| 59 |   |   |   | 24.5 |   | 72.5 |   | 0.26 | 3.16 |   | 121 |   |   |
| 60 |   |   |   | 29.8 |   | 84.7 |   | 0.52 | 5.7 |   | 89.7 |   |   |
| 61 |   |   |   |   |   |   |   |   |   |   | 1.00 |   |   |
| 62 |   |   |   |   |   |   |   |   |   |   | 2.00 |   |   |
| 63 |   |   |   |   |   |   |   |   |   |   | 2.00 |   |   |

**(3) Concentration of pesticides detected in Morning Glory samples bought from Local markets.**

| **Sample No.** | **Pesticide Concentration (ppb)** |
| --- | --- |
| **Carba-ryl****(10)\*** | **Carbo-furan****(10)\*** | **Chloro-thalonil****(10)\*** | **Chlor-pyrifos****(50)\*** | **λ-Cyha-lothrin****(20)\*** | **Cyper-methrin****(700)\*** | **Delta-methrin** | **Dia-zinon****(10)\*** | **Dime-thoate****(20)\*** | **Mala-thion****(20)\*** | **Meta-laxyl****(2000)\*** | **Metho-myl****(20)\*** | **Profe-nofos****(10)\*** |
| 1 |   |   |   |   |   |   |   | 1.21 | 27.3 |   | 5.45 |   | 16.0 |
| 2 |   |   |   |   |   |   |   | 10.6 | 26.2 |   | 8.2 |   | 9.1 |
| 3 |   | 1.05 |   |   |   |   |   |   | 27.1 |   | 2.42 |   |   |
| 4 |   |   |   |   |   |   |   |   | 26.9 |   | 1.26 |   |   |
| 5 |   |   |   |   |   |   |   | 1.16 | 26.0 |   | 0.64 |   |   |
| 6 |   |   |   |   |   |   |   | 4.44 | 37.6 |   | 6.5 |   |   |
| 7 |   |   |   |   |   |   |   | 0.61 | 41.6 |   | 2.25 |   |   |
| 8 |   | 5.2 |   |   |   |   |   | 1.48 | 30.4 |   | 1.91 |   |   |
| 9 |   |   |   |   |   |   |   | 2.38 | 35.2 |   | 4.43 |   |   |
| 10 |   |   |   |   |   |   |   | 2.43 | 36.2 |   | 4.21 |   |   |
| 11 |   | 3.72 |   |   |   |   |   | 0.68 | 29.0 |   | 5.6 |   |   |
| 12 |   |   |   |   |   |   |   | 0.62 | 5.22 |   | 5.32 |   |   |
| 13 |   | 2.48 |   |   |   |   |   | 0.62 | 0.04 |   | 4.50 |   |   |
| 14 |   |   |   |   |   |   |   |   |   |   | 2.05 |   |   |
| 15 |   |   |   |   |   |   |   |   |   |   | 1.61 |   |   |
| 16 |   |   |   |   |   | 2099 |   |   | 2.55 |   | 1.94 |   |   |
| 17 |   |   |   |   |   |   |   |   |   |   | 1.00 |   |   |
| 18 |   |   |   |   |   |   |   |   |   |   | 0.54 |   |   |
| 19 |   |   |   |   |   |   |   |   | 2.12 |   | 0.83 |   |   |
| 20 |   |   |   |   |   | 89.7 |   |   | 3.60 |   | 0.45 | 0.06 |   |
| 21 |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 22 |   |   |   |   |   |   |   |   | 9.52 |   | 0.49 |   |   |
| 23 |   |   |   |   |   | 1304 |   |   |   |   | 0.20 |   |   |
| 24 |   |   |   |   |   |   |   |   | 1.53 |   | 0.12 |   |   |
| 25 |   |   |   |   |   | 4031 |   |   | 4.08 |   | 0.31 |   |   |
| 26 |   |   |   |   |   |   |   |   | 3.74 |   | 0.28 |   |   |
| 27 |   |   |   |   |   |   |   |   | 2.64 |   |   |   |   |
| 28 |   |   |   |   |   |   |   |   | 3.17 |   |   |   |   |
| 29 |   | 5.1 |   |   |   |   |   |   | 3.34 |   | 11.1 | 6.6 |   |
| 30 |   | 4.34 |   |   |   |   |   |   | 0.72 |   | 5.6 | 5.7 |   |
| 31 |   |   |   |   |   |   |   |   | 0.71 |   | 15.3 |   |   |
| 32 |   |   |   |   |   |   |   |   | 19.8 |   | 28.5 |   |   |
| 33 |   |   |   |   |   |   |   |   | 13.1 |   | 26.3 |   |   |
| 34 |   |   |   |   |   |   |   |   | 0.46 |   | 8.5 |   |   |
| 35 |   |   |   |   |   |   |   |   | 3.11 |   | 10.2 |   |   |
| 36 |   |   |   |   |   |   |   |   | 1.29 |   | 5.7 |   |   |
| 37 |   | 0.07 |   |   |   |   |   |   | 6.1 |   | 297 |   |   |
| 38 |   | 0.90 |   |   |   |   |   |   | 32.3 |   | 55.2 |   |   |
| 39 |   | 0.35 |   |   |   |   |   |   | 6.1 |   | 97.5 |   |   |
| 40 |   | 1.68 |   |   |   | 352 |   |   | 7.6 |   | 92.0 |   |   |
| 41 |   |   |   |   |   |   |   |   | 32.7 |   | 83.2 |   |   |
| 42 |   | 0.56 |   |   |   |   |   | 6.1 | 249 |   | 82.2 |   |   |
| 43 |   | 0.64 |   |   |   | 709 |   | 5.6 | 71.8 |   | 73.8 |   |   |
| 44 |   |   |   |   |   |   |   | 1.06 | 43.6 |   | 66.7 |   |   |
| 45 |   | 0.39 |   |   |   |   |   | 1.42 | 7.7 |   | 68.0 |   |   |
| 46 |   |   |   |   |   |   |   | 0.46 | 20.0 |   | 60.2 |   |   |
| 47 |   | 1.03 |   |   |   |   |   | 0.97 | 17.9 |   | 92.8 |   |   |
| 48 |   | 2.61 |   |   |   |   |   | 1.28 | 166 |   | 275 |   |   |
| 49 |   | 6.7 |   |   |   |   |   | 1.16 | 85.6 |   | 275 |   |   |
| 50 |   | 4.31 |   | 34.4 |   |   |   |   | 9.7 |   | 179 |   |   |
| 51 |   |   |   |   |   |   |   | 0.61 | 108 |   | 235 |   |   |
| 52 |   | 1.00 |   |   |   |   |   | 0.74 | 10.4 |   | 192 |   |   |
| 53 |   | 1.32 |   |   |   |   |   | 0.78 | 19.9 |   | 130 |   |   |
| 54 |   | 0.94 |   |   |   |   |   | 1.58 | 10.3 |   | 178 |   |   |
| 55 |   |   |   |   |   |   |   | 2.29 | 132 |   | 279 |   |   |
| 56 |   |   |   |   |   |   |   | 0.38 | 174 |   | 39.3 |   |   |
| 57 |   | 1.94 |   |   |   |   |   |   | 31.2 |   | 208 |   |   |
| 58 |   |   |   |   |   |   |   | 0.71 | 13.7 |   | 121 |   |   |
| 59 |   |   |   |   |   |   |   |   | 93.6 |   | 61.5 |   |   |
| 60 |   |   |   |   |   |   |   |   | 231 |   | 139 |   |   |
| 61 |   |   |   |   |   |   |   |   | 86.7 |   | 105.6 |   |   |
| 62 |   |   |   |   |   |   |   | 0.5 | 38.8 |   | 88.3 |   |   |
| 63 |   |   |   |   |   |   |   | 0.3 | 2.8 |   | 74.2 |   |   |
| 64 |   |   |   |   |   |   |   | 0.4 | 4.1 |   | 14.7 |   |   |
| 65 |   |   |   |   |   |   |   | 0.6 | 4.6 |   | 12.7 |   |   |
| 66 |   | 0.15 |   | 111320 | 1402 | 16998 |   | 1.0 | 84.6 | 148 | 5.4 | 11184 | 1504 |
| 67 |   |   |   | 5.0 |   | 55.05 |   | 1.40 | 1.37 |   | 2.78 |   |   |
| 68 |   |   |   | 5.6 |   |   |   | 2.07 | 3.74 |   | 2.42 |   |   |
| 69 |   |   |   | 5.9 |   |   |   | 1.56 | 8.3 |   | 5.3 |   |   |
| 70 |   |   |   |   |   |   |   | 0.54 | 1.53 |   | 2.09 |   |   |
| 71 |   |   |   |   |   |   |   | 0.93 | 1.55 |   | 3.88 |   |   |
| 72 |   | 2.89 |   |   |   |   |   | 1.01 | 1.92 |   | 4.99 |   |   |
| 73 |   | 4.02 |   |   |   |   |   | 1.29 | 4.10 |   | 3.32 |   |   |
| 74 |   |   |   |   |   |   |   | 1.68 | 4.66 |   | 5.0 |   |   |