**Table 21:** Variation in % recoveries obtained for pyrethroids with the composition of four solvent systems using GC/NICI-MS.

|  |  |  |  |
| --- | --- | --- | --- |
| **Solvent** | **Composition** | **PI\*** | **Recovery, %** |
|  |  |  | Permethrin | Cyfluthrin | Cypermethrin | Fenvalerate | Deltamethrin | Mirex |
| Hexane: Acetone | 85: 15 | 0.81 | 62.63 | 99.30 | 117.97 | 96.21 | 83.9 | 66.61 |
|  | 65: 35 | 1.89 | 59.25 | 86.37 | 79.69 | 64.32 | 115.42 | 65.33 |
|  | 35: 65 | 3.51 | 72.60 | 84.94 | 78.95 | 95.48 | 103.93 | 63.83 |
|  | 15: 85 | 4.59 | 73.71 | 81.88 | 81.42 | 74.94 | 106.46 | 64.20 |
| Hexane: DCM | 85: 15 | 0.51 | 56.65 | 36.51 | 38.80 | 31.62 | 42.30 | 70.19 |
|  | 65: 35 | 1.19 | 78.10 | 90.22 | 84.44 | 90.10 | 94.00 | 75.71 |
|  | 35: 65 | 2.21 | 91.18 | 87.84 | 78.91 | 87.22 | 103.24 | 97.00 |
|  | 15: 85 | 2.89 | 92.92 | 93.51 | 88.20 | 93.44 | 79.00 | 79.27 |
| Isooctane: Acetone | 85: 15 | 0.47 | 74.00 | 85.96 | 76.38 | 80.46 | 95.55 | 84.24 |
|  | 65: 35 | 1.63 | 72.55 | 88.73 | 105.72 | 83.53 | 90.22 | 92.51 |
|  | 35: 65 | 3.37 | 90.67 | 97.98 | 58.00 | 86.92 | 76.52 | 94.70 |
|  | 15: 85 | 4.53 | 70.46 | 78.63 | 46.85 | 68.16 | 57.64 | 87.62 |
| Isooctane: DCM | 85: 15 | 0.17 | 74.62 | 42.84 | 55.43 | 66.33 | 39.63 | 69.57 |
|  | 65: 35 | 0.93 | 77.27 | 55.56 | 58.14 | 71.28 | 52.18 | 73.19 |
|  | 35: 65 | 2.07 | 74.50 | 61.00 | 74.40 | 92.53 | 56.84 | 72.63 |
|  | 15: 85 | 2.83 | 70.78 | 59.94 | 65.11 | 82.74 | 60.41 | 73.74 |

\*RSD 3.9% (n = 3).