

# Multiresidue Determination of 77 Pesticides in Textiles by Gas Chromatography–Mass Spectrometry

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## Abstract

A simple and efficient method for multiple determination of 77 pesticides, including one organonitrogen, eight carbamate, 12 pyrethroid, 26 organochloride, 30 organophosphorous compounds, in textiles is developed. Six representative textiles are chosen as test samples. Extraction using hexane–ethyl acetate (1:1) assisted by ultrasonic processor is carried out twice, followed by clean-up using solid-phase extraction on a florisil column. The final solution is analyzed using gas chromatography–mass spectrometry, and 77 pesticides are determined. This method is highly sensitive, selective, and reproducible, with a broad linear range and reliable accuracy. Six blank samples are spiked with 0.50 and 2.00 mg/kg of the 77 pesticides, and the corresponding recoveries are between 64.5% and 99.1%; the precisions range from 4.04% to 14.78%; and the minimum detection limits of this method are 0.02–0.20 mg/kg.

## Introduction

Many of the pesticides are used to make our lives easier. Unfortunately, a few of them are toxic. Genetic damage, reproductive problems, and possible links to cancer are just some of the risks associated with pesticides. Despite the hazards that pesticides pose to the environment and human health (especially children's health), the amount that farmers use in agriculture is ever increasing. If garments made from the agricultural products contain pesticide residues, it might be a health hazard not only to the wearers of these garments but also possibly to other family members. The disturbing reality is that according to Rebecca Spector of the Center for Food Safety of the United States, conventionally grown cotton is one of the most pesticide intensive and genetically altered crops worldwide. During pesticide application, clothing can pick up pesticide residue through spills and drift. The chemical can then enter the body through the skin. Washing contaminated garments with other clothes can contaminate the other clothes. In addition, common laundry procedures do not

remove the highly toxic and concentrated pesticide residues from clothes. Many governments and organizations are starting to regulate the maximum residue limits (MRL) of pesticides in textiles.

Although methods of testing for pesticides in some different matrixes have been developed and matured, widely accepted analytical methods of testing for pesticide residues in textile are rare. Procedures are accordingly needed to reliably and rapidly detect and quantitate as many contaminants in textile and textile materials as possible, including pesticides, in the most cost-effective manner. In this paper, analytical techniques including multiresidue analysis, effective cleaning-up, and positive confirmation, which has been accepted by pesticide analysts were applied. The procedure involves sample extraction by ultrasonic, cleaning-up by solid-phase extraction (SPE), and the final determination by gas chromatography (GC)–mass spectrometry (MS).

Forty-five pesticides out of fifty-four regulated in *Oeko-Tex Standard 100—General and Special Condition* (1), which is the technical specification from the independent test institutes of the International Oeko-Tex Association that explains the technical specification for ecological textiles, which pose no risk whatsoever to health, were covered in this method. It was decided to exclude nine pesticides regulated in *Oeko-Tex Standard 100* from this method. The nine compounds removed were: six phenoxy acid herbicides (2,4,5-T, 2,4-D, Dichlorprop, MCPA, MCPB, and Mecoprop), because they needed the extra pretreatment of methyl esterification; Dinoseb and Captafol, because they are more suitable to be detected by liquid chromatography as oppose to GC due to their relatively lower thermal liability than other pesticides detected in the GC temperature program used in this study; and Toxaphene, because it contains over 670 chemicals, which produce too many ion fragments. To increase the applicability of this method, 23 other highly toxic pesticides, which were or have been widely used but their usage in soil is now strictly limited by most countries, were included.

This method conforms to the requirements of MRL residue limit in terms of ecological textiles by most countries and authorities (1). This method can simultaneously qualify and quantify up to 77 pesticides residues including one organoni-

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trogen, eight carbamate, 12 pyrethroid, 26 organochlorine, 30 organophosphorous compounds in textiles (see Appendix Table I).

Six kinds of textiles, representing the main categories of textiles, were selected as test samples: four kinds of natural fabrics were chosen because the limited pesticides listed in the *Oeko-Tex Standard 100* mainly aim at natural fibers and two kinds of natural and artificial mixed fibers were chosen to cover more textile products.

## Experimental

### Test samples

The test samples were: wool-adjacent fabric (GB7564); cotton-adjacent fabric (GB7565); silk-adjacent fabric (GB7568); ramie-adjacent fabric (GB13765). GB7564, GB7565, GB7568, and GB13765 are all China National Standard Textile Samples. Other test samples were: wool-viscose (50:50 white) and polyester-cotton (65:35 battle dress uniform).

### Materials and reagents

The materials and reagents used were: hexane (pesticide grade) (DIMA Technology, ON, Canada); anhydrous sodium sulfate (Analytical Reagent) (Beijing Chemical Factory, Beijing China), which were baked at 650°C for 3 h, cooled down, and stored in desiccators. Florisil cartridges were from Bestown Company (Beijing, China). Standard reference materials were: pesticides standards with purity greater than or equal to 94% and obtained from Dr. Ehrensterfer GmbH (Augsburg, Germany), Sigma-Aldrich Co. (Seelze, Germany), and National Research Center for Certified Reference Materials (CRM) (Beijing, China). For stock solutions: Every pesticide was dissolved with acetone, and the concentrations of the 77 stock solutions were between 500–1000 µg/mL. Mixed standard solution were made in one acetone solution including all pesticides.

### Apparatus

An Ultrasonic processor, 40 kHz, was from Kunshan Dianshanhou Testing Instrument Factory (Shanghai, China). A rotating vacuum evaporator was from Tokyo Rikakikai (Tokyo Japan). A GC-MS with a mass selective detector (MSD) and an electron impact (EI) source was from Agilent-5973I (Agilent Technologies, Palo Alto, CA).

### GC-MSD Conditions

The GC column used was a DB-5 MS (30 m × 0.25 mm × 0.1 µm, Agilent, Palo Alto, CA) or similar. The GC temperature program was: temperature of column, 50°C for 1 min, increased from 50°C to 180°C at 30°C/min, and held at 180°C for 1 min, and then increased from 180°C to 280°C at 15°C/min and held at 280°C for 20 min. The injection port temperature was 270°C. The interface between the GC and MS was 280°C. The column flow was: helium as the carrier gas with a purity over or equal 99.999%, constant at 1.2 mL/min. The ionization mode was EI. The electron energy was 70 eV. The determination mode was selected-ion monitoring (SIM). The injection volume mode

was 1 µL/pulsed splitless by the auto-injector, and the valve was opened after 1.5 min.

### Procedure

Representative samples were taken and cut into tiny pieces smaller than 5 × 5 mm. A sample (2 g) was weighed (accurate to 0.01 g) into one 100 mL stoppered Erlenmeyer flask. Hexane-ethyl acetate (1:1) (50 mL) was added, and the mixture was ultrasonicated for 20 min (2,3). The supernatant solvent was filtered, and the residue was ultrasonicated again with 30 mL hexane-ethyl acetate (1:1) for 5 min. The filtrates were combined, dehydrated with anhydrous sodium sulfate, collected into a 100 mL heart-shaped flask, and condensed in 40°C water bath under vacuum to nearly dryness using a rotary evaporator. Acetonitrile-toluene (1:3) (3 mL) was used to dissolve the residues.

The florisil cartridge was conditioned with 5 mL acetonitrile-toluene (1:3) (4,5). The extract was loaded on the cartridge. The heart-shaped flask was rinsed with 2 mL of acetonitrile-toluene (1:3) twice, and the washings were loaded onto a cartridge. The cartridge was eluted with 20 mL of acetonitrile-toluene (1:3), and the eluate was collected into a 50-mL heart-shaped flask. The eluate was evaporated to near dry using a rotary evaporator in a 40°C water bath under vacuum. Finally the residues were diluted to 2.0 mL with acetone for analysis using GC-MS.

## Results and Discussion

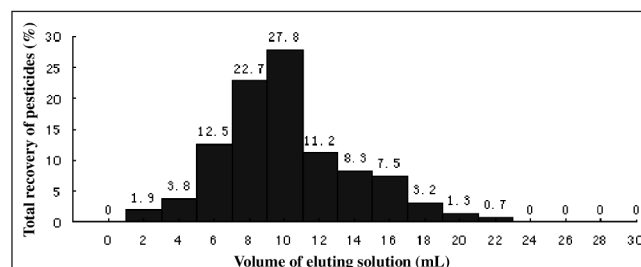
### Pretreatment

#### Extraction

The extraction was carried out twice using an ultrasonic processor with 50 and 30 mL of hexane-ethyl acetate (1:1), respectively, which is easy and fast without significant difference in results after comparison with Soxhlet extraction on wool-adjacent fabric sample (GB7564) (See Appendix Table II).

#### Clean-up

The extract of textiles contained little colorants, fat, or other impurities. A florisil cartridge was used for clean-up. The conditions of clean-up were investigated to observe the separation and purification efficiency using the florisil cartridge for the 77



**Figure 1.** The elution chart of 77 pesticides. During 0–23 mL of the eluant, the 77 pesticides were present. Collecting 23 mL of eluate could remove the influence of impurities while maintaining the recoveries of these pesticides.

pesticides in six kinds of matrixes (6).

The extractions of blank and of the six kinds of spiked matrixes were run through the florisil cartridge. The eluate was collected in 2-mL aliquots into separate tubes in sequence, and a total of 30 mL was collected. The portion in each tube was tested for the total content of pesticides, and their recoveries were calculated to ascertain the optimized time to collect the fraction (7) (Figure 1). From the elution chart, it was known that the 77 pesticides were present during 0–23 mL of the eluant, which ran through the florisil cartridge. Thus, it was proved that collecting at least 23 mL of eluate could remove the influence of impurities while maintaining acceptable recoveries. In the SPE step, 24 mL of eluant was used.

### GC–MS conditions

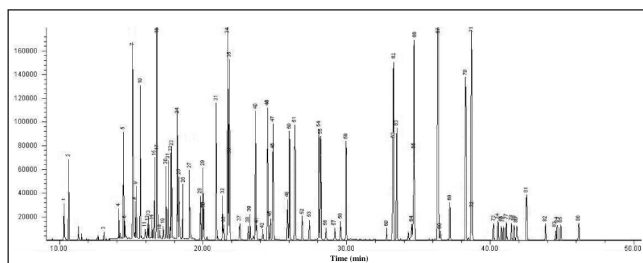
DB-5 MS (30 m × 0.25 mm × 0.1 μm) silica capillary column (4) was used for GC under the programmed temperature scheme. Techniques of pulsed splitless injection using capillary and the principal of Solvent Effects were adapted to selectively and chromatographically separate these 77 pesticides.

### GC–MS analysis

The target and qualifier abundances were previously determined by injection of individual pesticide standards under the same chromatographic conditions in full-scan mode. GC–MS analysis was performed in the SIM based on the use of one target and three qualifier ions. Pesticides were identified according to the retention times.

As quantitation is of paramount importance, SIM is preferably employed. In the SIM mode, the mass analyzer is operated in a way that it alternately acquires only the ionic masses of interest. The scan time spent on a diagnostically useless  $m/z$  range is almost reduced to zero, whereas the detector time for the ions of interest is increased by a factor of 10–100. So an improvement in sensitivity is observed, and peak resolution, accuracy, and precision were also improved. If increasing the number of ions monitored decreases the sensitivity, the run time was prolonged in order to achieve enough sensitivity for a high number of pesticides. The emphasis was, therefore, on separation rather than fast analysis.

A previous full GC–MSD scan had been performed, and the total ion chromatogram (TIC) of the 77 pesticides was available.



**Figure 2.** The GC–MS–SIM chromatogram obtained for the standards of the 77 pesticides. 86 peaks appeared in the SIM chromatogram because some of the 77 pesticides possess isomeric forms. They are Chlorfenvinphos Z and E (38th and 40th peaks), Permethrin I and II (70th and 71st peak), Cyfluthrin I, II, III and IV (73rd–76th peaks), Cypermethin I, II, III and IV, (77th–80th peaks), Fluvalinate I and II (84th and 85th peaks).

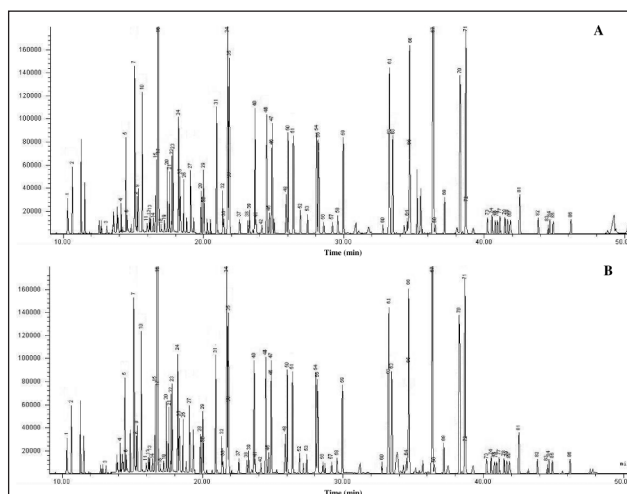
The fragment ions ( $m/z$ ), which had higher abundances and larger masses were selected, and GC–MSD was changed to SIM mode. Table III (see Appendix) lists the pesticides' quantitation ions and qualifier ions. The SIM parameters are described in Table IV (see Appendix).

Using chromatographic and spectrometric methods, GC–MS–SIM chromatogram of the 77 pesticide standards are generated, which is shown in Figure 2. The peak sequence with retention times are shown in Table III (see Appendix). Figures 3A and 3B show the SIM chromatogram of two spiked samples: wool-adjacent fabric and cotton-adjacent fabric, respectively. There are 86 peaks that appeared in the SIM chromatogram because some of the 77 pesticides possess isomeric forms. There are 86 peaks that appeared in the SIM chromatogram because some of the 77 pesticides possess isomeric forms. They are Chlorfenvinphos Z and E (38th and 40th peaks), Permethrin I and II (70th and 71st peak), Cyfluthrin I, II, III, and IV (73rd–76th peaks), Cypermethin I, II, III and IV, (77th–80th peaks), Fluvalinate I and II (84th and 85th peaks).

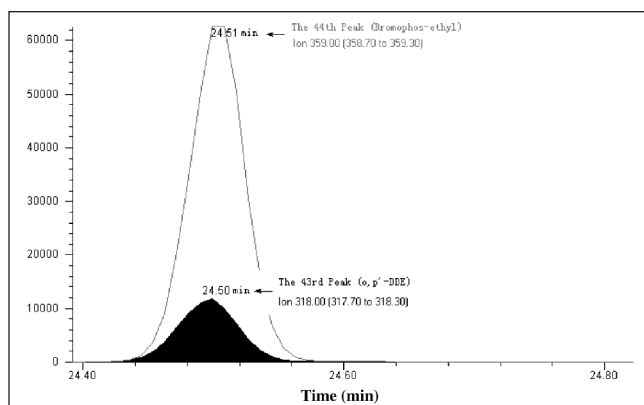
Using the external standard method, quantitation was achieved by comparing the peak areas of test samples to that of standard references in the SIM chromatograph. Positive confirmation of the pesticides was based on the retention time of the featured quantitation ion and on the abundance ratio of three qualifier ions. Identity of a pesticide was confirmed when its retention time matched the retention time of the pesticide standard within ± 0.05 min. The abundance ratio was determined by dividing the abundance of the selected confirmation ion by the quantitation ion and multiplying by 100. Where no interference was observed, the relative SIM responses of each of the ions monitored for the analyte should correspond to those obtained from a standard (within ± 20%).

### Separation and quantitation of overlapped peaks

It was a difficult task using a 30-m long capillary column to separate all 77 pesticides. Some peaks were the result of the



**Figure 3.** SIM chromatogram of spiked wool-adjacent fabric sample (GB7564). All peaks of 77 pesticides are available and no obvious disruptive peaks are found (A), and SIM chromatogram of spiked cotton-adjacent fabric (GB7565). All peaks of 77 pesticides are available and no obvious disruptive peaks are found (B).



**Figure 4.** Distinction of *o,p'*-DDE and Bromophos-ethyl whose peaks overlap at a very near retention time by SIM. Although at the retention time of *o,p'*-DDE, 24.50 min, and that of Bromophos-ethyl, 24.51 min, 43rd peak and 44th peak are closely overlapped, these two peaks can be separated under the SIM mode. The ions of *m/z* 318 and 359 were chosen in mass tunnels to generate the extract ion chromatography, and then the separation can be seen at two different colors.

overlapping of more than one analyte. For instance 29th and 30th, 43rd and 44th, 48th and 49th, 65th and 66th, etc. However SIM mode can distinguish these overlapped peaks which represent different pesticides.

An example of how different pesticides peaks overlapped is shown in Figure 4. In the chromatogram, the retention time of *o,p'*-DDE, 43rd peak (24.50 min), and that of Bromophos-ethyl, 44th peak (24.51 min), are closely overlapped. To accurately quantify these two pesticides, their ionic fragments in the full scan mode were investigated, in which *o,p'*-DDE had a maximum featured ion *m/z* 318 and Bromophos-ethyl had one at *m/z* 359. Under the SIM mode, *m/z* 318 and 359 were chosen in mass tunnels to generate the extract ion chromatography to separate these two peaks, and quantitation can then be employed (8).

### Linearity

Using the stated GC conditions, the standard references of total 77 pesticides were determined in a certain concentration range. The correlation coefficients  $\gamma$  are between 0.9943–0.9987.

### Determination of minimum detection limits

The minimum detection limits (MDL) for each pesticide of this method is derived from the values of the detection sensitivity (the ratio of signal to noise is over 3) of GC-MS and the responded value to the given sample matrixes. As is shown in the Appendix Table III, MDLs ranging from 0.02–0.20 mg/kg are qualified to the regulated limit of textiles according to *Oeko-Tex Standard 100*.

### Accuracy

Six kinds of blank samples were spiked with the 77 pesticides at 0.500 and 2.00 mg/kg to determine their recoveries. Each sample was injected 5 times with an automatic injector at each level. The average recoveries at the level of 0.500 mg/kg were between 65.3–94.0%, and at 2.00 mg/kg they were between 64.5–99.1%, respectively, with the great majority greater than

80%. The obtained precisions determined under repeating conditions and expressed as coefficient of variation (CV) at the level of 0.500 mg/kg were 4.04–17.47% and at the level of 2.00 mg/kg were 5.42–14.78%, respectively. All the quality control data are shown in Table V (see Appendix).

Nearly 75% of the pesticides recoveries show a better effect on silk, cotton, and ramie than on wool. The reason is that in a wool matrix, more pesticides are lost during the SPE procedure because wool has a higher oil content than other samples. There is no obvious difference between the recoveries from cotton and ramie, both of which are plants. Although silk, which contains a good deal of protein, has a more complicate composition, it gives similar recoveries to cotton and ramie.

## Conclusion

A method has been developed for the simultaneous extraction, cleanup, and determination of 77 pesticides in textiles. The optimum conditions for extraction were 20 min and 5 min ultrasonic durations with 50 mL hexane-ethyl acetate (1:1), dehydrated, condensed, and diluted with acetonitrile-toluene (1:3) to 3 mL. The extract was run through the florisil SPE cartridge, and eluted with  $2 \times 2 + 20$  mL of acetonitrile-toluene (1:3) and the eluate was analyzed using GC-MS in SIM mode. The quantitation was carried out using external standards.

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## Appendix

Table I. The Full List of 77 Pesticides Determined by this Method, Their CAS Number, and Their Formulas

No.	Compound	CAS	Formula	No.	Compound	CAS	Formula
1*	Methamidophos	10265-92-6	C <sub>2</sub> H <sub>8</sub> NO <sub>2</sub> PS	40*	Quinalphos	13593-03-8	C <sub>12</sub> H <sub>15</sub> N <sub>2</sub> O <sub>3</sub> PS
2	Dichlorvos	62-73-7	C <sub>4</sub> H <sub>7</sub> Cl <sub>2</sub> O <sub>4</sub> P	41*	cis-Chlordane	5103-71-9	C <sub>10</sub> H <sub>6</sub> Cl <sub>8</sub>
3*	Mevinphos	7786-34-7	C <sub>7</sub> H <sub>13</sub> O <sub>6</sub> P	42*	<i>o,p'</i> -DDE	3424-82-6	C <sub>14</sub> H <sub>8</sub> Cl <sub>4</sub>
4	Oxamyl	23135-22-0	C <sub>7</sub> H <sub>13</sub> N <sub>3</sub> O <sub>3</sub> S	43*	Bromophos-ethyl	4824-78-6	C <sub>10</sub> H <sub>12</sub> BrCl <sub>2</sub> O <sub>3</sub> PS
5	Isoprocarb	2631-40-5	C <sub>11</sub> H <sub>15</sub> NO <sub>2</sub>	44*	Endosulfan(α-isomer)	115-29-7	C <sub>9</sub> H <sub>6</sub> Cl <sub>6</sub> O <sub>3</sub> S
6	Methiocarb	2032-65-7	C <sub>11</sub> H <sub>15</sub> NO <sub>2</sub> S	45	Tetrachlorvinphos	961-11-5	C <sub>10</sub> H <sub>9</sub> Cl <sub>4</sub> O <sub>4</sub> P
7	Omethoate	1113-02-6	C <sub>5</sub> H <sub>12</sub> NO <sub>4</sub> PS	46*	<i>trans</i> -Chlordane	5103-74-2	C <sub>10</sub> H <sub>6</sub> Cl <sub>8</sub>
8	Tecnazene	117-18-0	C <sub>6</sub> HCl <sub>14</sub> NO <sub>2</sub>	47*	Profenofos	41198-08-7	C <sub>11</sub> H <sub>15</sub> BrClO <sub>3</sub> PS
9	Demeton methyl	919-86-8	C <sub>6</sub> H <sub>15</sub> O <sub>3</sub> PS <sub>2</sub>	48*	Dieldrin	60-57-1	C <sub>12</sub> H <sub>8</sub> Cl <sub>6</sub> O
10	Ethoprophos	13194-48-4	C <sub>8</sub> H <sub>13</sub> O <sub>2</sub> PS <sub>2</sub>	49*	<i>p,p'</i> -DDE	72-55-9	C <sub>14</sub> H <sub>8</sub> Cl <sub>4</sub>
11*	Chlordimeform	6164-98-3	C <sub>10</sub> H <sub>13</sub> ClN <sub>2</sub>	50*	<i>o,p'</i> -DDD	53-19-0	C <sub>14</sub> H <sub>10</sub> Cl <sub>4</sub>
12*	Dicrotophos	141-66-2	C <sub>8</sub> H <sub>16</sub> NO <sub>5</sub> P	51*	Endrin	72-20-8	C <sub>12</sub> H <sub>8</sub> Cl <sub>6</sub> O
13*	Monocrotophos	6923-22-4	C <sub>7</sub> H <sub>14</sub> NO <sub>5</sub> P	52*	Endosulfan(β-isomer)	33213-65-9	C <sub>9</sub> H <sub>6</sub> Cl <sub>6</sub> O <sub>3</sub> S
14*	Trifluralin	1582-09-8	C <sub>13</sub> H <sub>16</sub> F <sub>3</sub> N <sub>3</sub> O <sub>4</sub>	53*	<i>p,p'</i> -DDD	72-54-8	C <sub>14</sub> H <sub>10</sub> Cl <sub>4</sub>
15*	α-BHC	319-84-6	C <sub>6</sub> H <sub>6</sub> Cl <sub>6</sub>	54*	<i>o,p'</i> -DDT	789-02-6	C <sub>14</sub> H <sub>9</sub> Cl <sub>5</sub>
16	Thiometon	640-15-3	C <sub>6</sub> H <sub>15</sub> O <sub>2</sub> PS <sub>3</sub>	55*	S,S,S-tributyl phosphorotrithioate	78-48-8	C <sub>12</sub> H <sub>27</sub> OPS <sub>3</sub>
17*	Hexachlorobenzene	118-74-1	C <sub>6</sub> Cl <sub>6</sub>	56	Triazophos	24017-47-8	C <sub>12</sub> H <sub>16</sub> N <sub>3</sub> O <sub>3</sub> PS
18*	Dimethoate	60-51-5	C <sub>5</sub> H <sub>12</sub> NO <sub>3</sub> PS <sub>2</sub>	57	Edifenphos	17109-49-8	C <sub>14</sub> H <sub>15</sub> O <sub>2</sub> PS <sub>2</sub>
19	Carbofuran	1563-66-2	C <sub>12</sub> H <sub>15</sub> NO <sub>3</sub>	58*	<i>p,p'</i> -DDT	50-29-3	C <sub>14</sub> H <sub>9</sub> Cl <sub>5</sub>
20	β-BHC	319-85-7	C <sub>6</sub> H <sub>6</sub> Cl <sub>6</sub>	59	EPN	2104-64-5	C <sub>14</sub> H <sub>14</sub> NO <sub>4</sub> PS
21*	Lindane	58-89-9	C <sub>6</sub> H <sub>6</sub> Cl <sub>6</sub>	60*	Methoxychlor	72-43-5	C <sub>16</sub> H <sub>15</sub> Cl <sub>3</sub> O <sub>2</sub>
22	Pentachloronitrobenzene	82-68-8	C <sub>6</sub> Cl <sub>5</sub> NO <sub>2</sub>	61	Bifenthrin	82657-04-3	C <sub>23</sub> H <sub>22</sub> ClF <sub>3</sub> O <sub>2</sub>
23*	Propetamphos	31218-83-4	C <sub>10</sub> H <sub>20</sub> NO <sub>4</sub> PS	62	Fenpropathion	64257-84-7	C <sub>22</sub> H <sub>23</sub> NO <sub>3</sub>
24*	Diazinon	333-41-5	C <sub>12</sub> H <sub>21</sub> N <sub>2</sub> O <sub>3</sub> PS	63*	Azinphos methyl	86-50-0	C <sub>10</sub> H <sub>12</sub> N <sub>3</sub> O <sub>3</sub> PS <sub>2</sub>
25	Disulfoton	298-04-4	C <sub>8</sub> H <sub>19</sub> O <sub>2</sub> PS <sub>3</sub>	64	Furathiocarb	65907-30-4	C <sub>18</sub> H <sub>26</sub> N <sub>2</sub> O <sub>5</sub> S
26*	δ-BHC	319-86-8	C <sub>6</sub> H <sub>6</sub> Cl <sub>6</sub>	65*	Mirex	2385-85-5	C <sub>10</sub> Cl <sub>12</sub>
27	Pirimicarb	23103-98-2	C <sub>11</sub> H <sub>18</sub> N <sub>4</sub> O <sub>2</sub>	66*	Cyhalothrin(RS)	91465-08-6	C <sub>23</sub> H <sub>19</sub> ClF <sub>3</sub> NO <sub>3</sub>
28*	Parathion-methyl	298-00-0	C <sub>8</sub> H <sub>10</sub> NO <sub>5</sub> PS	67*	Azinphos-ethyl	2642-71-9	C <sub>12</sub> H <sub>16</sub> N <sub>3</sub> O <sub>3</sub> PS <sub>2</sub>
29*	Carbaryl	63-25-2	C <sub>12</sub> H <sub>11</sub> NO <sub>2</sub>	68*	Acinathrin	103833-18-7	C <sub>26</sub> H <sub>21</sub> F <sub>6</sub> NO <sub>5</sub>
30*	Heptachlor	76-44-8	C <sub>10</sub> H <sub>5</sub> Cl <sub>7</sub>	69	Permethrin	52645-53-1	C <sub>21</sub> H <sub>20</sub> Cl <sub>2</sub> O <sub>3</sub>
31	Fenitrothion	122-14-5	C <sub>9</sub> H <sub>12</sub> NO <sub>5</sub> PS	70*	Coumaphos	56-72-4	C <sub>14</sub> H <sub>16</sub> ClO <sub>3</sub> PS
32*	Aldrin	309-00-2	C <sub>12</sub> H <sub>6</sub> Cl <sub>6</sub>	71*	Cyfluthrin	68359-37-5	C <sub>22</sub> H <sub>18</sub> Cl <sub>2</sub> FNO <sub>3</sub>
33*	Malathion	121-75-5	C <sub>10</sub> H <sub>19</sub> O <sub>6</sub> PS <sub>2</sub>	72*	Cypermethin	52315-07-8	C <sub>22</sub> H <sub>19</sub> Cl <sub>2</sub> NO <sub>3</sub>
34	Fenthion	55-38-9	C <sub>10</sub> H <sub>15</sub> O <sub>3</sub> PS <sub>2</sub>	73	Silafluofen	105024-66-6	C <sub>25</sub> H <sub>29</sub> FO <sub>2</sub> Si
35	Chlorpyrifos	2921-88-2	C <sub>9</sub> H <sub>11</sub> C <sub>13</sub> NO <sub>3</sub> PS	74*	Fenvalerate	51630-58-1	C <sub>25</sub> H <sub>22</sub> ClNO <sub>3</sub>
36*	Parathion	56-38-2	C <sub>10</sub> H <sub>14</sub> NO <sub>5</sub> PS	75*	Esienvaterate	66230-04-4	C <sub>25</sub> H <sub>22</sub> ClNO <sub>3</sub>
37	Isodrin	465-73-6	C <sub>12</sub> H <sub>8</sub> Cl <sub>6</sub>	76	Fluvalinate	102851-06-9	C <sub>26</sub> H <sub>22</sub> ClF <sub>3</sub> N <sub>2</sub> O <sub>3</sub>
38*	Chlorfenvinphos	470-90-6	C <sub>12</sub> H <sub>14</sub> Cl <sub>3</sub> O <sub>4</sub> P	77*	Deltamethrin	52918-63-5	C <sub>22</sub> H <sub>19</sub> Br <sub>2</sub> NO <sub>3</sub>
39*	Heptachlor epoxide	1024-57-3	C <sub>10</sub> H <sub>5</sub> Cl <sub>7</sub> O				

\* Pesticides are in the regulated list from Oeko-Tex Standard 100 (1).

**Table II. Comparison of Ultrasonic Extraction and Soxhlet. The Extraction Using Ultrasonic Processor is Simple Without Significant Difference in Results After Comparing to Classical Soxhlet Extraction on the Same Wool-Adjacent Fabric Sample (GB7564).**

No.	Compound	Wool-adjacent fabric (Spiked 0.5 mg/kg)		No.	Compound	Wool-adjacent fabric (Spiked 0.5 mg/kg)	
		Soxhlet	Ultrasonic			Soxhlet	Ultrasonic
1	Methamidophos	0.386	0.367	40	Quinalphos	0.473	0.491
2	Dichlorvos	0.452	0.463	41	<i>cis</i> -Chlordane	0.476	0.482
3	Mevinphos	0.486	0.467	42	<i>o,p'</i> -DDE	0.455	0.436
4	Oxamyl	0.479	0.453	43	Bromophos-ethyl	0.476	0.495
5	Isoprocarb	0.495	0.476	44	Endosulfan( $\alpha$ -isomer)	0.450	0.464
6	Methiocarb	0.431	0.459	45	Tetrachlorvinphos	0.478	0.472
7	Omethoate	0.391	0.388	46	<i>trans</i> -Chlordane	0.481	0.460
8	Tecnazene	0.463	0.488	47	Profenofos	0.486	0.475
9	Demeton methyl	0.359	0.374	48	Dieldrin	0.461	0.485
10	Ethoprophos	0.496	0.478	49	<i>p,p'</i> -DDE	0.475	0.468
11	Chlordimeform	0.484	0.490	50	<i>o,p'</i> -DDD	0.440	0.468
12	Dicrotophos	0.459	0.477	51	Endrin	0.491	0.487
13	Monocrotophos	0.384	0.376	52	Endosulfan( $\beta$ -isomer)	0.468	0.465
14	Trifluralin	0.488	0.469	53	<i>p,p'</i> -DDD	0.487	0.476
15	$\alpha$ -BHC	0.483	0.471	54	<i>o,p'</i> -DDT	0.461	0.451
16	Thiometon	0.455	0.468	55	<i>S,S,S</i> -tributyl phosphorotrithioate	0.428	0.445
17	Hexachlorobenzene	0.495	0.482	56	Triazophos	0.467	0.441
18	Dimethoate	0.463	0.452	57	Edifenphos	0.465	0.453
19	Carbofuran	0.488	0.470	58	<i>p,p'</i> -DDT	0.486	0.462
20	$\beta$ -BHC	0.446	0.458	59	EPN	0.431	0.449
21	Lindane	0.473	0.481	60	Methoxychlor	0.438	0.457
22	Pentachloronitrobenzene	0.466	0.478	61	Bifenthrin	0.446	0.456
23	Propetamphos	0.445	0.456	62	Fenprothion	0.437	0.429
24	Diazinon	0.462	0.491	63	Azinphos methyl	0.468	0.459
25	Disulfoton	0.473	0.485	64	Furathiocarb	0.449	0.458
26	$\delta$ -BHC	0.435	0.443	65	Mirex	0.462	0.487
27	Pirimicarb	0.496	0.476	66	Cyhalothrin(RS)	0.495	0.481
28	Parathion-methyl	0.368	0.359	67	Azinphos-ethyl	0.435	0.429
29	Carbaryl	0.453	0.476	68	Acrinathrin	0.465	0.481
30	Heptachlor	0.484	0.490	69	Permethrin	0.428	0.442
31	Fenitrothion	0.477	0.468	70	Coumaphos	0.458	0.479
32	Aldrin	0.465	0.449	71	Cyfluthrin	0.462	0.473
33	Malathion	0.494	0.476	72	Cypermethin	0.491	0.470
34	Fenthion	0.477	0.465	73	Silafluofen	0.441	0.445
35	Chlorpyrifos	0.420	0.435	74	Fenvalerate	0.472	0.455
36	Parathion	0.487	0.471	75	Esfenvalerate	0.482	0.466
37	Isodrin	0.438	0.462	76	Fluvalinate	0.425	0.437
38	Chlorfenvinphos	0.475	0.456	77	Deltamethrin	0.477	0.446
39	Heptachlor epoxide	0.486	0.471				

**Table III. The Summary of SIM Mode Parameters Including Quantitation Ions, the Confirmation Ions and Abundance Ratios, and The Data From the Total Ion Chromatogram (TIC), Including Peak Sequence Numbers and Retention Time. These Data Can Be Used For Qualification and Quantitation. The MDL of the 77 Pesticides Acquired After Calculation Was Demonstrated Accordingly**

Compound	Peak sequence number	Retention time (min)	Featured fragment ions			Minimum detection limit (g/g)	
			Quantitation ion (m/z)	Qualifier ions (m/z)	Abundance ratio		
1	Methamidophos	1st	10.34	141	110, 111, 126	100:16:27:14	0.20
2	Dichlorvos	2nd	10.65	220	185, 187, 222	21:100:33:12	0.10
3	Mevinphos	3rd	13.11	192	164, 193, 224	100:30:30:9	0.20
4	Oxamyl	4th	14.13	205	177, 206, 220	100:7:17:26	0.20
5	Isoproc carb	5th	14.46	136	121, 122, 103	45:100:10:8	0.10
6	Methiocarb	6th	14.55	168	109, 153, 169	100:44:59:10	0.20
7	Omethoate	7th	15.10	156	141, 181, 213	100:12:8:6	0.20
8	Tecnazene	8th	15.27	261	169, 142, 107	72:100:86:12	0.05
9	Demeton methyl	9th	15.34	152	143, 169, 230	100:50:14:18	0.10
10	Ethoprophos	10th	15.63	242	158, 168, 200	24:100:14:39	0.10
11	Chlordimeform	11th	15.96	196	152, 168, 181	100:38:7:74	0.20
12	Dicrotophos	12th	16.13	193	127, 192, 237	13:100:8:10	0.10
13	Monocrotophos	13th	16.21	193	127, 164, 223	16:100:9:4	0.20
14	Trifluralin	14th	16.24	306	203, 215, 231	100:72:11:10	0.05
15	$\alpha$ -BHC	15th	16.58	219	264, 290, 335	72:100:94:59	0.05
16	Thiometon	16th	16.79	246	158, 185, 217	100:80:30:10	0.05
17	Hexachlorobenzene	17th	16.81	284	142, 214, 249	100:21:13:23	0.05
18	Dimethoate	18th	16.99	125	87, 143, 229	59:100:13:11	0.20
19	Carbofuran	19th	17.21	221	131, 149, 164	9:13:53:100	0.20
20	$\beta$ -BHC	20th	17.41	219	181, 183, 217	75:99:100:55	0.05
21	Lindane	21st	17.57	219	181, 183, 254	72:100:97:23	0.05
22	Pentachloronitrobenzene	22nd	17.74	295	237, 249, 265	90:100:88:39	0.05
23	Propetamphos	23rd	17.83	236	194, 205, 222	69:100:10:71	0.10
24	Diazinon	24th	18.23	304	248, 276, 289	100:40:47:18	0.05
25	Disulfoton	25th	18.32	274	142, 153, 186	85:100:95:90	0.10
26	$\delta$ -BHC	26th	18.37	219	181, 183, 254	70:100:92:21	0.05
27	Pirimicarb	27th	19.10	238	138, 166, 167	29:10:100:10	0.20
28	Parathion-methyl	28th	19.82	263	200, 233, 246	100:10:14:8	0.10
29	Carbaryl	29th	19.98	144	115, 116, 201	100:41:23:8	0.20
30	Heptachlor	30th	20.04	337	272, 237, 374	23:100:35:13	0.10
31	Fenitrothion	31st	20.93	277	214, 247, 260	100:8:6:55	0.05
32	Aldrin	32nd	21.38	293	255, 263, 298	39:30:100:30	0.10
33	Malathion	33rd	21.44	256	173, 211, 285	10:100:9:6	0.10
34	Fenthion	34th	21.73	278	245, 263, 279	100:7:7:13	0.05
35	Chlorpyrifos	35th	21.84	314	197, 258, 286	71:100:43:28	0.05
36	Parathion	36th	21.86	291	218, 235, 261	100:10:16:14	0.05
37	Isodrin	37th	22.57	364	193, 263, 293	7:100:46:6	0.10
38	Chlorfenvinphos (Z)	38th	23.16	323	267, 269, 295	69:100:66:24	0.10
	Chlorfenvinphos (E)	40th					
39	Heptachlor epoxide	39th	23.28	353	317, 388, 263	100:8:9:15	0.05
40	Quinalphos	41st	23.74	298	225, 241, 270	100:22:48:41	0.10
41	cis-Chlordane	42nd	24.16	373	237, 263, 272	100:63:30:37	0.10
42	<i>o,p'</i> -DDE	43rd	24.50	318	210, 246, 281	48:13:100:5	0.10
43	Bromophos-ethyl	44th	24.51	359	242, 303, 331	100:33:81:35	0.05
44	Endosulfan( $\alpha$ -isomer)	45th	24.69	339	241, 265, 277	45:100:70:81	0.10
45	Tetrachlorvinphos	46th	24.86	373	204, 240, 331	100:8:10:98	0.10
46	trans-Chlordane	47th	24.89	329	237, 263, 272	100:64:22:50	0.10
47	Profenofos	48th	25.88	339	269, 297, 374	100:45:44:40	0.20
48	Dieldrin	49th	25.91	263	277, 345, 380	100:86:49:49	0.10
49	<i>p,p'</i> -DDE	50th	26.03	318	246, 281, 316	79:100:15:61	0.05
50	<i>o,p'</i> -DDD	51st	26.40	235	199, 212, 320	100:15:8:5	0.05
51	Endrin	52nd	26.92	317	263, 281, 345	100:85:64:47	0.10

**Table III. (continued) The Summary of SIM Mode Parameters Including Quantitation Ions, the Confirmation Ions and Abundance Ratios, and the Data From the Total Ion Chromatogram, Including Peak Sequence Numbers and Retention Time. These Data Can Be Used For Qualification and Quantitation. The MDL of the 77 Pesticides Acquired After Calculation Was Demonstrated Accordingly**

Compound	Peak sequence number	Retention time (min)	Featured fragment ions			Minimum detection limit (g/g)	
			Quantitation ion (m/z)	Qualifier ions (m/z)	Abundance ratio		
52	Endosulfan( $\beta$ -isomer)	53rd	28.01	339	237, 265, 277	44:100:62:53	0.10
53	<i>p,p'</i> -DDD	54th	28.07	235	199, 212, 237	100:11:8:65	0.05
54	<i>o,p'</i> -DDT	55th	28.20	235	199, 121, 246	100:22:10:14	0.05
55	S,S,S-tributyl phosphorotrithioate	56th	28.48	258	202, 226, 314	44:100:44:19	0.10
56	Triazophos	57th	29.14	257	208, 285, 313	100:67:74:33	0.10
57	Edifenphos	58th	29.58	310	173, 201, 218	74:100:35:18	0.10
58	<i>p,p'</i> -DDT	59th	29.97	235	199, 212, 246	100:11:13:7	0.05
59	EPN	60th	32.76	323	185, 278, 293	47:100:10:8	0.10
60	Methoxychlor	61st	33.20	274	212, 227, 238	6:8:100:5	0.05
61	Bifenthrin	62nd	33.25	181	165, 166, 182	100:25:26:15	0.10
62	Fenpropathion	63rd	33.50	181	209, 265, 349	100:30:48:15	0.10
63	Azinphos methyl	64th	34.52	160	125, 132, 161	100:16:75:12	0.20
64	Furathiocarb	65th	34.71	382	163, 194, 325	10:100:27:14	0.20
65	Mirex	66th	34.72	272	237, 332, 404	100:49:11:6	0.05
66	Cyhalothrin(RS)	67th	36.37	181	197, 208, 225	100:77:54:8	0.10
67	Azinphos-ethyl	68th	36.53	160	132, 133, 161	86:100:11:10	0.20
68	Acrinathrin	69th	37.19	181	208, 247, 289	100:64:13:43	0.10
69	Permethrin (I)	70th	38.28	183	163, 165, 184	100:18:16:15	0.02
	Permethrin (II)	71st	38.69			100:25:20:15	
70	Coumaphos	72nd	38.75	362	226, 306, 334	100:58:14:14	0.20
71	Cyfluthrin (I)	73rd	40.24	206	163, 199, 226	76:100:47:60	0.20
	Cyfluthrin (II)	74th	40.57			64:100:40:44	
	Cyfluthrin (III)	75th	40.78			75:100:46:59	
	Cyfluthrin (IV)	76th	40.93			63:100:38:43	
72	Cypermethin (I)	77th	41.14	181	163, 208, 209	88:100:22:31	0.20
	Cypermethin (II)	78th	41.49			76:100:18:28	
	Cypermethin (III)	79th	41.69			88:100:21:34	
	Cypermethin (IV)	80th	41.84			73:100:17:26	
73	Silafluofen	81st	42.53	181	179, 199, 258	70:100:19:48	0.10
74	Fenvalerate	82nd	43.86	181	209, 225, 419	100:23:90:65	0.20
75	Esfenvalerate	83rd	44.53	181	209, 225, 419	100:24:87:66	0.20
76	Fluvalinate (I)	84th	44.67	181	209, 250, 252	18:25:100:32	0.10
	Fluvalinate (II)	85th	44.92				
77	Deltamethrin	86th	46.17	181	209, 251, 253	100:26:48:94	0.20

**Table IV. MS-SIM Parameters of Quantitation. A Previous Full GC-MSD Scan Had Been Performed and The TIC of The 77 Pesticides Was Available. The Fragment Ions (m/z) that Had Higher Abundances and Larger Masses Were Selected To Setup SIM Parameters, and GC-MSD Was Changed To SIM. In The SIM Mode, the Mass Analyzer is Operated in a Way That It Alternately Acquires Only The Ionic Masses of Interest**

Tunnel	Time (min)	Selected ions (m/z)
1	9.00	141,192,220
2	13.50	125,136,142,152,156,168,192,193,196,205,219,221,236,238,242,261,274,284,295,304,306
3	19.45	144,256,263,277,278,291,293,314,337
4	22.20	235,257,258,263,298,310,317,318,320,323,329,339,353,359,364,373
5	32.00	160,181,183,272,274,323,362,382
6	39.50	181,206,286



**Table V. The Results of Recoveries and Precisions According to Six Kinds of Textiles at Two Fortification Levels: 0.500 and 2.00 mg/kg**

No.	Pesticides	Textile sample	Two fortified contents mg/kg	Measured results mg/kg					X ± S mg/kg	CV (%)	Recoveries (%)		
				1	2	3	4	5					
1	Methamidophos	Wool-adjacent fabric	0.500	0.329	0.336	0.389	0.333	0.285	0.3342 ± 0.0367	10.97	66.8		
			2.00	1.393	1.269	1.329	1.241	1.222				1.2908 ± 0.0700	5.42
		Cotton-adjacent fabric	0.500	0.394	0.322	0.390	0.299	0.356	0.3522 ± 0.0419	11.89	70.4		
			2.00	1.500	1.510	1.260	1.382	1.311				1.3926 ± 0.1114	8.00
		Silk-adjacent fabric	0.500	0.283	0.385	0.319	0.320	0.388	0.3390 ± 0.0460	13.56	67.8		
			2.00	1.591	1.637	1.597	1.422	1.454				1.5402 ± 0.0956	6.21
		Ramie-adjacent fabric	0.500	0.374	0.349	0.285	0.316	0.384	0.3416 ± 0.0413	12.08	68.3		
			2.00	1.555	1.249	1.419	1.629	1.314				1.4332 ± 0.1593	11.12
		Wool/viscose	0.500	0.340	0.284	0.368	0.352	0.326	0.3340 ± 0.0319	9.55	66.8		
			2.00	1.617	1.422	1.241	1.361	1.379				1.4040 ± 0.1367	9.74
		Polyester/cotton	0.500	0.282	0.387	0.376	0.358	0.368	0.3541 ± 0.0420	11.86	70.8		
			2.00	1.617	1.429	1.294	1.636	1.579				1.5110 ± 0.1460	9.66
		2	Dichlorvos	Wool-adjacent fabric	0.500	0.457	0.353	0.411	0.384	0.349	0.3907 ± 0.0447	11.43	78.1
					2.00	2.024	1.723	1.851	1.775	2.031			
Cotton-adjacent fabric	0.500			0.350	0.494	0.387	0.364	0.409	0.4005 ± 0.0568	14.17	80.1		
	2.00			1.742	2.048	1.995	1.829	1.934				1.9096 ± 0.1241	6.50
Silk-adjacent fabric	0.500			0.363	0.437	0.428	0.347	0.358	0.3864 ± 0.0425	11.01	77.3		
	2.00			1.860	1.980	1.757	2.031	1.907				1.9070 ± 0.1066	5.59
Ramie-adjacent fabric	0.500			0.390	0.472	0.468	0.375	0.445	0.4301 ± 0.0447	10.39	86.0		
	2.00			1.772	1.786	1.829	1.893	2.024				1.8608 ± 0.1027	5.52
Wool/viscose	0.500			0.375	0.494	0.425	0.368	0.475	0.4272 ± 0.0568	13.28	85.4		
	2.00			1.771	1.753	1.848	1.748	2.035				1.8310 ± 0.1209	6.60
Polyester/cotton	0.500			0.483	0.409	0.365	0.401	0.359	0.4034 ± 0.0496	12.29	80.7		
	2.00			1.970	2.001	1.949	1.704	1.806				1.8860 ± 0.1263	6.69
3	Mevinphos			Wool-adjacent fabric	0.500	0.372	0.468	0.349	0.374	0.469	0.4063 ± 0.0575	14.16	81.3
					2.00	1.813	1.911	1.759	1.763	1.725			
		Cotton-adjacent fabric	0.500	0.437	0.381	0.482	0.401	0.436	0.4272 ± 0.0388	9.08	85.4		
			2.00	1.815	1.922	1.888	1.801	1.727				1.8306 ± 0.0767	4.19
		Silk-adjacent fabric	0.500	0.483	0.404	0.407	0.375	0.494	0.4324 ± 0.0528	12.21	86.5		
			2.00	1.827	1.798	1.959	1.983	1.753				1.8640 ± 0.1015	5.45
		Ramie-adjacent fabric	0.500	0.407	0.342	0.379	0.362	0.430	0.3841 ± 0.0352	9.16	76.8		
			2.00	1.913	1.803	1.772	2.012	1.725				1.8450 ± 0.1162	6.30
		Wool/viscose	0.500	0.354	0.492	0.417	0.356	0.438	0.4113 ± 0.0581	14.13	82.3		
			2.00	1.781	1.887	1.772	1.919	2.014				1.8746 ± 0.1011	5.39
		Polyester/cotton	0.500	0.442	0.344	0.382	0.466	0.473	0.4213 ± 0.0560	13.30	84.3		
			2.00	1.784	1.923	1.902	2.038	1.953				1.9200 ± 0.0920	4.79
		4	Oxamyl	Wool-adjacent fabric	0.500	0.373	0.402	0.480	0.425	0.475	0.4308 ± 0.0461	10.71	86.2
					2.00	1.952	1.974	1.741	1.949	2.047			
Cotton-adjacent fabric	0.500			0.454	0.398	0.445	0.471	0.409	0.4351 ± 0.0307	7.05	87.0		
	2.00			1.873	1.707	2.018	1.937	1.860				1.8790 ± 0.1147	6.11
Silk-adjacent fabric	0.500			0.475	0.489	0.422	0.432	0.466	0.4564 ± 0.0286	6.26	91.3		
	2.00			2.036	1.824	1.911	1.782	1.730				1.8566 ± 0.1202	6.47
Ramie-adjacent fabric	0.500			0.402	0.370	0.390	0.379	0.460	0.4000 ± 0.0355	8.87	80.0		
	2.00			1.894	2.041	1.795	1.770	1.705				1.8410 ± 0.1308	7.11
Wool/viscose	0.500			0.358	0.444	0.379	0.372	0.392	0.3889 ± 0.0333	8.57	77.8		
	2.00			2.020	1.986	1.756	1.870	1.798				1.8860 ± 0.1150	6.10
Polyester/cotton	0.500			0.341	0.418	0.367	0.350	0.346	0.3646 ± 0.0314	8.62	72.9		
	2.00			2.020	1.839	1.894	1.875	1.833				1.8922 ± 0.0758	4.00
5	Isoprocarb			Wool-adjacent fabric	0.500	0.371	0.484	0.431	0.438	0.425	0.4299 ± 0.0400	9.29	86.0
					2.00	1.772	1.737	1.793	1.742	1.979			
		Cotton-adjacent fabric	0.500	0.426	0.404	0.401	0.459	0.342	0.4062 ± 0.0427	10.50	81.2		
			2.00	1.791	1.925	2.034	1.857	1.943				1.9100 ± 0.0917	4.80
		Silk-adjacent fabric	0.500	0.440	0.449	0.429	0.479	0.348	0.4287 ± 0.0487	11.36	85.7		
			2.00	1.924	1.902	1.856	2.045	1.772				1.8998 ± 0.0999	5.26

**Table V. (Continued) The Results of Recoveries and Precisions According to Six Kinds of Textiles at Two Fortification Levels: 0.500 and 2.00 mg/kg**

No.	Pesticides	Textile sample	Two fortified contents mg/kg	Measured results mg/kg					X ± S mg/kg	CV (%)	Recoveries (%)
				1	2	3	4	5			
6	Methiocarb	Ramie-adjacent fabric	0.500	0.448	0.424	0.378	0.358	0.436	0.4087 ± 0.0390	9.55	81.7
			2.00	1.725	1.993	1.777	1.862	1.919	1.8552 ± 0.1074	5.79	92.8
		Wool/viscose	0.500	0.440	0.390	0.392	0.397	0.488	0.4213 ± 0.0426	10.11	84.3
			2.00	1.866	2.009	1.886	2.046	1.813	1.9240 ± 0.0990	5.15	96.2
		Polyester/cotton	0.500	0.421	0.358	0.340	0.393	0.386	0.3795 ± 0.0316	8.33	75.9
			2.00	1.930	1.857	1.705	1.861	1.740	1.8186 ± 0.0932	5.13	90.9
		Wool-adjacent fabric	0.500	0.384	0.462	0.374	0.461	0.433	0.4226 ± 0.0416	9.85	84.5
			2.00	1.980	1.734	1.764	1.786	1.979	1.8486 ± 0.1209	6.54	92.4
		Cotton-adjacent fabric	0.500	0.369	0.458	0.393	0.450	0.493	0.4325 ± 0.0505	11.67	86.5
			2.00	2.026	1.745	1.760	1.715	1.757	1.8006 ± 0.1273	7.07	90.0
		Silk-adjacent fabric	0.500	0.383	0.376	0.406	0.470	0.489	0.4248 ± 0.0516	12.14	85.0
			2.00	1.923	1.907	2.019	1.742	1.948	1.9078 ± 0.1021	5.35	95.4
7	Omethoate	Ramie-adjacent fabric	0.500	0.484	0.455	0.436	0.472	0.394	0.4483 ± 0.0352	7.85	89.7
			2.00	1.906	1.762	1.856	2.020	1.996	1.9080 ± 0.1053	5.52	95.4
		Wool/viscose	0.500	0.353	0.433	0.494	0.474	0.457	0.4422 ± 0.0547	12.36	88.4
			2.00	1.749	1.709	2.019	1.986	1.898	1.8722 ± 0.1387	7.41	93.6
		Polyester/cotton	0.500	0.380	0.407	0.370	0.367	0.436	0.3920 ± 0.0295	7.51	78.4
			2.00	1.939	1.722	1.751	2.033	1.712	1.8314 ± 0.1457	7.96	91.6
		Wool-adjacent fabric	0.500	0.314	0.396	0.304	0.299	0.319	0.3264 ± 0.0397	12.17	65.3
			2.00	1.341	1.507	1.204	1.210	1.379	1.3282 ± 0.1266	9.53	66.4
		Cotton-adjacent fabric	0.500	0.343	0.386	0.297	0.378	0.389	0.3587 ± 0.0392	10.92	71.7
			2.00	1.230	1.339	1.354	1.320	1.541	1.3568 ± 0.1137	8.38	67.8
		Silk-adjacent fabric	0.500	0.305	0.314	0.348	0.385	0.369	0.3442 ± 0.0345	10.03	68.8
			2.00	1.499	1.446	1.285	1.257	1.498	1.3970 ± 0.1174	8.41	69.9
Ramie-adjacent fabric	0.500	0.283	0.314	0.398	0.364	0.337	0.3391 ± 0.0444	13.09	67.8		
	2.00	1.247	1.635	1.423	1.462	1.381	1.4296 ± 0.1405	9.83	71.5		
Wool/viscose	0.500	0.359	0.380	0.374	0.332	0.284	0.3456 ± 0.0391	11.31	69.1		
	2.00	1.483	1.573	1.564	1.544	1.285	1.4898 ± 0.1197	8.04	74.5		
Polyester/cotton	0.500	0.342	0.337	0.357	0.314	0.362	0.3423 ± 0.0190	5.54	68.5		
	2.00	1.479	1.306	1.518	1.340	1.222	1.3730 ± 0.1231	8.97	68.7		
8	Tecnazene	Wool-adjacent fabric	0.500	0.384	0.402	0.387	0.435	0.421	0.4058 ± 0.0218	5.38	81.2
			2.00	1.730	1.925	2.043	1.881	1.751	1.8660 ± 0.1292	6.92	93.3
		Cotton-adjacent fabric	0.500	0.401	0.461	0.467	0.401	0.462	0.4383 ± 0.0341	7.78	87.7
			2.00	1.808	1.827	1.983	1.713	1.714	1.8090 ± 0.1105	6.11	90.5
		Silk-adjacent fabric	0.500	0.395	0.478	0.493	0.417	0.390	0.4345 ± 0.0478	11.00	86.9
			2.00	1.722	1.952	1.800	1.932	1.752	1.8316 ± 0.1048	5.72	91.6
		Ramie-adjacent fabric	0.500	0.426	0.476	0.405	0.418	0.419	0.4286 ± 0.0275	6.42	85.7
			2.00	1.912	1.968	1.759	1.941	1.863	1.8886 ± 0.0822	4.35	94.4
		Wool/viscose	0.500	0.405	0.452	0.350	0.456	0.490	0.4305 ± 0.0543	12.61	86.1
			2.00	1.871	1.794	2.034	1.972	2.005	1.9352 ± 0.1001	5.17	96.8
		Polyester/cotton	0.500	0.464	0.437	0.375	0.387	0.341	0.4007 ± 0.0493	12.30	80.1
			2.00	1.707	1.883	1.736	2.029	1.718	1.8146 ± 0.1394	7.68	90.7
9	Demeton methyl	Wool-adjacent fabric	0.500	0.396	0.310	0.339	0.345	0.321	0.3421 ± 0.0332	9.72	68.4
			2.00	1.530	1.240	1.215	1.389	1.509	1.3766 ± 0.1466	10.65	68.8
		Cotton-adjacent fabric	0.500	0.331	0.395	0.371	0.370	0.372	0.3679 ± 0.0232	6.31	73.6
			2.00	1.463	1.323	1.203	1.251	1.441	1.3362 ± 0.1143	8.55	66.8
		Silk-adjacent fabric	0.500	0.325	0.316	0.298	0.384	0.340	0.3326 ± 0.0325	9.77	66.5
			2.00	1.650	1.548	1.302	1.309	1.461	1.4540 ± 0.1512	10.40	72.7
		Ramie-adjacent fabric	0.500	0.356	0.344	0.394	0.291	0.371	0.3513 ± 0.0385	10.97	70.3
			2.00	1.645	1.482	1.526	1.450	1.598	1.5402 ± 0.0807	5.24	77.0
		Wool/viscose	0.500	0.319	0.315	0.323	0.359	0.345	0.3323 ± 0.0187	5.64	66.5
			2.00	1.648	1.352	1.232	1.517	1.578	1.4654 ± 0.1703	11.62	73.3
		Polyester/cotton	0.500	0.316	0.368	0.313	0.356	0.322	0.3351 ± 0.0249	7.43	67.0
			2.00	1.337	1.378	1.471	1.520	1.626	1.4664 ± 0.1150	7.84	73.3
10	Tecnazene	Wool-adjacent fabric	0.500	0.474	0.380	0.368	0.482	0.439	0.4287 ± 0.0527	12.30	85.7

**Table V. (Continued) The Results of Recoveries and Precisions According to Six Kinds of Textiles at Two Fortification Levels: 0.500 and 2.00 mg/kg**

No.	Pesticides	Textile sample	Two fortified contents mg/kg	Measured results mg/kg					X ± S mg/kg	CV (%)	Recoveries (%)		
				1	2	3	4	5					
11	Chlordimeform	Cotton-adjacent fabric	2.00	1.891	1.726	1.870	1.921	1.793	1.8402 ± 0.0795	4.32	92.0		
			0.500	0.429	0.396	0.350	0.430	0.363	0.3937 ± 0.0367	9.33	78.7		
		Silk-adjacent fabric	2.00	1.939	1.863	1.716	1.760	1.937	1.8430 ± 0.1018	5.52	92.2		
			0.500	0.362	0.385	0.373	0.468	0.487	0.4148 ± 0.0582	14.04	83.0		
		Ramie-adjacent fabric	2.00	2.014	1.783	1.813	1.889	1.707	1.8412 ± 0.1166	6.33	92.1		
			0.500	0.348	0.494	0.461	0.474	0.492	0.4535 ± 0.0607	13.39	90.7		
		Wool/viscose	2.00	1.925	1.753	1.854	1.919	2.046	1.8994 ± 0.1073	5.65	95.0		
			0.500	0.362	0.364	0.367	0.444	0.471	0.4015 ± 0.0520	12.95	80.3		
		Polyester/cotton	2.00	1.826	1.981	2.026	1.982	1.725	1.9080 ± 0.1274	6.68	95.4		
			0.500	0.438	0.476	0.353	0.361	0.471	0.4200 ± 0.0594	14.15	84.0		
		Wool-adjacent fabric	2.00	2.004	1.780	1.943	1.802	1.939	1.8936 ± 0.0974	5.15	94.7		
			0.500	0.450	0.457	0.429	0.487	0.409	0.4465 ± 0.0295	6.61	89.3		
		Cotton-adjacent fabric	2.00	1.966	1.801	1.716	1.756	1.828	1.8134 ± 0.0954	5.26	90.7		
			0.500	0.389	0.473	0.390	0.451	0.493	0.4392 ± 0.0480	10.93	87.8		
		Silk-adjacent fabric	2.00	1.821	1.710	1.869	1.999	1.789	1.8376 ± 0.1072	5.83	91.9		
			0.500	0.456	0.472	0.483	0.398	0.359	0.4334 ± 0.0531	12.25	86.7		
		Ramie-adjacent fabric	2.00	1.957	1.950	1.767	1.897	1.958	1.9058 ± 0.0816	4.28	95.3		
			0.500	0.422	0.484	0.473	0.370	0.436	0.4369 ± 0.0452	10.36	87.4		
		Wool/viscose	2.00	1.789	2.049	1.994	1.703	1.753	1.8576 ± 0.1539	8.29	92.9		
			0.500	0.382	0.412	0.362	0.482	0.459	0.4193 ± 0.0505	12.05	83.9		
Polyester/cotton	2.00	1.873	1.989	1.776	1.842	1.969	1.8898 ± 0.0889	4.71	94.5				
	0.500	0.364	0.359	0.342	0.402	0.494	0.3922 ± 0.0612	15.59	78.4				
12	Dicrotophos	Wool-adjacent fabric	2.00	1.757	1.709	1.706	1.817	2.048	1.8074 ± 0.1418	7.85	90.4		
			0.500	0.431	0.426	0.406	0.464	0.377	0.4205 ± 0.0322	7.65	84.1		
		Cotton-adjacent fabric	2.00	1.911	2.010	1.829	2.033	1.835	1.9236 ± 0.0954	4.96	96.2		
			0.500	0.340	0.492	0.396	0.456	0.418	0.4205 ± 0.0578	13.74	84.1		
		Silk-adjacent fabric	2.00	1.765	1.810	1.970	1.728	1.850	1.8246 ± 0.0934	5.12	91.2		
			0.500	0.391	0.434	0.364	0.473	0.476	0.4275 ± 0.0493	11.54	85.5		
		Ramie-adjacent fabric	2.00	1.764	1.793	1.747	1.958	2.024	1.8572 ± 0.1254	6.75	92.9		
			0.500	0.471	0.373	0.480	0.417	0.402	0.4284 ± 0.0458	10.70	85.7		
		Wool/viscose	2.00	2.011	1.706	1.726	1.783	1.756	1.7964 ± 0.1235	6.87	89.8		
			0.500	0.422	0.464	0.453	0.425	0.442	0.4411 ± 0.0179	4.05	88.2		
		Polyester/cotton	2.00	2.039	1.788	1.721	1.763	2.024	1.8670 ± 0.1522	8.15	93.4		
			0.500	0.346	0.420	0.485	0.494	0.342	0.4172 ± 0.0729	17.47	83.4		
		13	Monocrotophos	Wool-adjacent fabric	2.00	1.840	1.702	1.783	1.907	1.872	1.8208 ± 0.0806	4.42	91.0
					0.500	0.302	0.334	0.343	0.387	0.302	0.3333 ± 0.0351	10.52	66.7
				Cotton-adjacent fabric	2.00	1.629	1.272	1.423	1.246	1.316	1.3772 ± 0.1561	11.34	68.9
					0.500	0.390	0.375	0.352	0.282	0.343	0.3483 ± 0.0412	11.83	69.7
				Silk-adjacent fabric	2.00	1.296	1.640	1.510	1.333	1.479	1.4516 ± 0.1396	9.62	72.6
					0.500	0.296	0.371	0.331	0.319	0.336	0.3306 ± 0.0274	8.28	66.1
				Ramie-adjacent fabric	2.00	1.223	1.471	1.367	1.460	1.384	1.3810 ± 0.0994	7.20	69.1
					0.500	0.314	0.396	0.387	0.383	0.362	0.3683 ± 0.0329	8.94	73.7
Wool/viscose	2.00			1.244	1.598	1.258	1.229	1.388	1.3434 ± 0.1558	11.60	67.2		
	0.500			0.377	0.336	0.378	0.381	0.361	0.3666 ± 0.0188	5.14	73.3		
Polyester/cotton	2.00			1.447	1.289	1.419	1.468	1.473	1.4192 ± 0.0758	5.34	71.0		
	0.500			0.293	0.314	0.366	0.360	0.357	0.3379 ± 0.0326	9.65	67.6		
14	Trifluralin			Wool-adjacent fabric	2.00	1.483	1.496	1.242	1.557	1.285	1.4126 ± 0.1398	9.89	70.6
					0.500	0.445	0.374	0.456	0.428	0.457	0.4318 ± 0.0346	8.00	86.4
				Cotton-adjacent fabric	2.00	1.773	1.710	1.970	2.028	2.036	1.9034 ± 0.1516	7.97	95.2
					0.500	0.423	0.389	0.463	0.456	0.428	0.4317 ± 0.0293	6.78	86.3
				Silk-adjacent fabric	2.00	1.789	1.998	1.944	1.713	1.992	1.8872 ± 0.1289	6.83	94.4
					0.500	0.374	0.489	0.358	0.401	0.424	0.4090 ± 0.0513	12.54	81.8
				Ramie-adjacent fabric	2.00	1.997	2.040	1.727	1.790	1.850	1.8808 ± 0.1339	7.12	94.0
					0.500	0.455	0.408	0.407	0.371	0.354	0.3987 ± 0.0390	9.78	79.7
		Wool/viscose	2.00	2.024	1.776	1.982	1.953	1.883	1.9236 ± 0.0972	5.05	96.2		

**Table V. (Continued) The Results of Recoveries and Precisions According to Six Kinds of Textiles at Two Fortification Levels: 0.500 and 2.00 mg/kg**

No.	Pesticides	Textile sample	Two fortified contents mg/kg	Measured results mg/kg					X ± S mg/kg	CV (%)	Recoveries (%)
				1	2	3	4	5			
15	$\alpha$ -BHC	Wool/viscose	0.500	0.406	0.452	0.491	0.347	0.363	0.4117 ± 0.0601	14.60	82.3
			2.00	1.950	1.942	1.959	1.770	1.786	1.8814 ± 0.0948	5.04	94.1
		Polyester/cotton	0.500	0.341	0.356	0.393	0.446	0.415	0.3900 ± 0.0428	10.98	78.0
			2.00	2.026	1.990	1.805	1.721	1.996	1.9076 ± 0.1360	7.13	95.4
		Wool-adjacent fabric	0.500	0.381	0.384	0.361	0.457	0.382	0.3931 ± 0.0371	9.43	78.6
			2.00	1.824	1.733	1.741	1.788	2.050	1.8272 ± 0.1299	7.11	91.4
		Cotton-adjacent fabric	0.500	0.365	0.442	0.486	0.435	0.429	0.4314 ± 0.0433	10.04	86.3
			2.00	1.856	2.008	1.779	1.859	1.744	1.8492 ± 0.1017	5.50	92.5
		Silk-adjacent fabric	0.500	0.363	0.341	0.356	0.351	0.446	0.3715 ± 0.0425	11.43	74.3
			2.00	1.874	1.759	1.821	1.779	1.949	1.8364 ± 0.0768	4.18	91.8
		Ramie-adjacent fabric	0.500	0.447	0.370	0.411	0.419	0.398	0.4087 ± 0.0283	6.93	81.7
			2.00	2.015	1.748	1.829	1.895	2.027	1.9028 ± 0.1199	6.30	95.1
16	Thiometon	Wool/viscose	0.500	0.346	0.443	0.448	0.414	0.402	0.4106 ± 0.0406	9.88	82.1
			2.00	1.923	1.774	1.738	1.931	1.851	1.8434 ± 0.0866	4.70	92.2
		Polyester/cotton	0.500	0.443	0.433	0.488	0.368	0.376	0.4215 ± 0.0497	11.79	84.3
			2.00	1.845	1.852	1.712	1.972	1.834	1.8430 ± 0.0922	5.00	92.2
		Wool-adjacent fabric	0.500	0.397	0.436	0.473	0.359	0.494	0.4318 ± 0.0550	12.73	86.4
			2.00	2.021	1.963	2.006	1.814	1.740	1.9088 ± 0.1250	6.55	95.4
		Cotton-adjacent fabric	0.500	0.389	0.461	0.491	0.352	0.382	0.4150 ± 0.0582	14.02	83.0
			2.00	1.767	1.885	1.939	1.941	2.043	1.9150 ± 0.1005	5.25	95.8
		Silk-adjacent fabric	0.500	0.470	0.347	0.468	0.486	0.494	0.4528 ± 0.0603	13.31	90.6
			2.00	1.988	1.763	1.826	1.817	1.705	1.8198 ± 0.1058	5.81	91.0
		Ramie-adjacent fabric	0.500	0.359	0.355	0.475	0.467	0.401	0.4113 ± 0.0574	13.96	82.3
			2.00	1.735	1.966	1.922	1.765	1.865	1.8506 ± 0.0991	5.36	92.5
17	Hexachlorobenzene	Wool/viscose	0.500	0.434	0.421	0.371	0.448	0.480	0.4306 ± 0.0400	9.29	86.1
			2.00	2.005	1.889	1.975	1.998	1.771	1.9276 ± 0.0990	5.14	96.4
		Polyester/cotton	0.500	0.389	0.345	0.379	0.420	0.427	0.3919 ± 0.0331	8.45	78.4
			2.00	1.901	1.868	2.037	1.852	1.801	1.8918 ± 0.0888	4.70	94.6
		Wool-adjacent fabric	0.500	0.415	0.346	0.373	0.430	0.374	0.3877 ± 0.0340	8.77	77.5
			2.00	2.023	1.995	1.729	2.007	1.931	1.9370 ± 0.1214	6.27	96.9
		Cotton-adjacent fabric	0.500	0.405	0.428	0.477	0.401	0.472	0.4367 ± 0.0361	8.28	87.3
			2.00	1.989	1.981	1.728	1.920	2.012	1.9260 ± 0.1158	6.01	96.3
		Silk-adjacent fabric	0.500	0.384	0.345	0.406	0.394	0.407	0.3871 ± 0.0256	6.60	77.4
			2.00	1.795	1.985	1.790	1.895	1.754	1.8438 ± 0.0947	5.14	92.2
		Ramie-adjacent fabric	0.500	0.439	0.361	0.475	0.349	0.463	0.4174 ± 0.0585	14.02	83.5
			2.00	2.006	1.927	1.899	1.879	1.765	1.8952 ± 0.0873	4.61	94.8
18	Dimethoate	Wool/viscose	0.500	0.426	0.422	0.465	0.391	0.412	0.4231 ± 0.0272	6.42	84.6
			2.00	1.827	2.040	1.843	1.821	1.863	1.8788 ± 0.0916	4.87	93.9
		Polyester/cotton	0.500	0.394	0.368	0.350	0.454	0.361	0.3854 ± 0.0416	10.79	77.1
			2.00	1.828	1.997	1.754	1.951	1.895	1.8850 ± 0.0967	5.13	94.3
		Wool-adjacent fabric	0.500	0.415	0.359	0.473	0.350	0.470	0.4135 ± 0.0587	14.19	82.7
			2.00	1.918	1.919	1.770	1.918	1.991	1.9032 ± 0.0808	4.25	95.2
		Cotton-adjacent fabric	0.500	0.460	0.400	0.471	0.388	0.408	0.4255 ± 0.0374	8.79	85.1
			2.00	2.048	2.004	1.769	1.893	1.930	1.9288 ± 0.1080	5.60	96.4
		Silk-adjacent fabric	0.500	0.432	0.480	0.353	0.455	0.358	0.4156 ± 0.0573	13.78	83.1
			2.00	1.974	1.924	1.993	1.891	1.783	1.9130 ± 0.0831	4.34	95.7
		Ramie-adjacent fabric	0.500	0.381	0.405	0.349	0.446	0.406	0.3974 ± 0.0358	9.00	79.5
			2.00	1.923	1.783	1.878	1.976	1.815	1.8750 ± 0.0784	4.18	93.8
19	Carbofuran	Wool/viscose	0.500	0.379	0.352	0.479	0.418	0.487	0.4230 ± 0.0596	14.08	84.6
			2.00	1.713	1.704	2.003	1.935	1.704	1.8118 ± 0.1455	8.03	90.6
		Polyester/cotton	0.500	0.483	0.462	0.462	0.359	0.360	0.4249 ± 0.0606	14.27	85.0
			2.00	1.797	1.831	1.895	2.050	1.759	1.8664 ± 0.1142	6.12	93.3
		Wool-adjacent fabric	0.500	0.480	0.354	0.431	0.393	0.454	0.4224 ± 0.0500	11.83	84.5
			2.00	1.786	1.763	1.761	1.989	1.957	1.8512 ± 0.1122	6.06	92.6
		Cotton-adjacent fabric	0.500	0.347	0.359	0.478	0.340	0.355	0.3760 ± 0.0575	15.30	75.2

**Table V. (Continued) The Results of Recoveries and Precisions According to Six Kinds of Textiles at Two Fortification Levels: 0.500 and 2.00 mg/kg**

No.	Pesticides	Textile sample	Two fortified contents mg/kg	Measured results mg/kg					X ± S mg/kg	CV (%)	Recoveries (%)		
				1	2	3	4	5					
20	β-BHC	Silk-adjacent fabric	2.00	1.999	2.044	2.003	1.934	1.777	1.9514 ± 0.1051	5.39	97.6		
			0.500	0.341	0.426	0.467	0.489	0.443	0.4332 ± 0.0571	13.18	86.6		
		Ramie-adjacent fabric	2.00	2.036	1.999	2.001	2.037	1.839	1.9824 ± 0.0822	4.15	99.1		
			0.500	0.456	0.403	0.438	0.493	0.493	0.4565 ± 0.0383	8.40	91.3		
		Wool/viscose	2.00	1.896	1.760	1.712	2.023	1.880	1.8542 ± 0.1225	6.61	92.7		
			0.500	0.360	0.460	0.454	0.345	0.486	0.4211 ± 0.0639	15.18	84.2		
		Polyester/cotton	2.00	1.785	1.948	1.773	1.990	1.844	1.8680 ± 0.0972	5.20	93.4		
			0.500	0.467	0.350	0.400	0.345	0.492	0.4107 ± 0.0667	16.24	82.1		
		Wool-adjacent fabric	2.00	2.010	2.007	1.795	1.768	1.757	1.8674 ± 0.1296	6.94	93.4		
			0.500	0.380	0.484	0.344	0.368	0.402	0.3954 ± 0.0535	13.53	79.1		
		Cotton-adjacent fabric	2.00	1.820	2.017	1.948	2.034	1.852	1.9342 ± 0.0959	4.96	96.7		
			0.500	0.471	0.454	0.399	0.494	0.389	0.4412 ± 0.0457	10.36	88.2		
		Silk-adjacent fabric	2.00	2.029	2.013	1.829	1.765	1.897	1.9066 ± 0.1145	6.01	95.3		
			0.500	0.409	0.460	0.382	0.391	0.460	0.4203 ± 0.0374	8.90	84.1		
		Ramie-adjacent fabric	2.00	2.040	1.841	1.990	1.744	1.903	1.9036 ± 0.1178	6.19	95.2		
			0.500	0.443	0.369	0.463	0.490	0.459	0.4449 ± 0.0455	10.23	89.0		
		Wool/viscose	2.00	1.767	1.817	1.968	2.002	1.972	1.9052 ± 0.1057	5.55	95.3		
			0.500	0.463	0.481	0.489	0.421	0.365	0.4436 ± 0.0514	11.59	88.7		
		Polyester/cotton	2.00	1.954	2.027	1.974	1.728	1.911	1.9188 ± 0.1145	5.97	95.9		
			0.500	0.370	0.381	0.419	0.418	0.400	0.3975 ± 0.0218	5.49	79.5		
21	Lindane	Wool-adjacent fabric	2.00	2.034	1.882	1.895	1.786	1.817	1.8828 ± 0.0958	5.09	94.1		
			0.500	0.363	0.392	0.368	0.442	0.360	0.3850 ± 0.0345	8.97	77.0		
		Cotton-adjacent fabric	2.00	1.733	1.876	1.729	2.026	1.987	1.8702 ± 0.1385	7.40	93.5		
			0.500	0.379	0.387	0.383	0.374	0.436	0.3918 ± 0.0251	6.41	78.4		
		Silk-adjacent fabric	2.00	1.855	1.902	1.711	1.774	1.746	1.7976 ± 0.0789	4.39	89.9		
			0.500	0.421	0.435	0.373	0.439	0.353	0.4044 ± 0.0389	9.63	80.9		
		Ramie-adjacent fabric	2.00	1.775	1.903	1.978	1.988	2.021	1.9330 ± 0.0983	5.09	96.7		
			0.500	0.397	0.430	0.486	0.421	0.469	0.4405 ± 0.0364	8.27	88.1		
		Wool/viscose	2.00	1.879	1.957	1.751	1.895	2.016	1.8996 ± 0.0992	5.22	95.0		
			0.500	0.492	0.401	0.344	0.424	0.480	0.4282 ± 0.0608	14.19	85.6		
		Polyester/cotton	2.00	1.736	1.954	1.740	1.713	2.044	1.8374 ± 0.1513	8.23	91.9		
			0.500	0.388	0.360	0.352	0.441	0.440	0.3962 ± 0.0424	10.71	79.2		
		22	Pentachloronitrobenzene	Wool-adjacent fabric	2.00	1.901	2.015	1.979	1.747	1.967	1.9218 ± 0.1061	5.52	96.1
					0.500	0.399	0.444	0.462	0.461	0.372	0.4274 ± 0.0404	9.45	85.5
				Cotton-adjacent fabric	2.00	2.026	1.707	1.818	2.003	1.781	1.8670 ± 0.1407	7.54	93.4
					0.500	0.393	0.358	0.469	0.439	0.387	0.4090 ± 0.0441	10.79	81.8
				Silk-adjacent fabric	2.00	1.702	2.035	1.707	1.833	1.741	1.8036 ± 0.1396	7.74	90.2
					0.500	0.438	0.384	0.389	0.360	0.371	0.3885 ± 0.0298	7.67	77.7
				Ramie-adjacent fabric	2.00	1.734	1.948	1.965	2.001	1.862	1.9020 ± 0.1069	5.62	95.1
					0.500	0.483	0.342	0.351	0.466	0.413	0.4111 ± 0.0643	15.64	82.2
Wool/viscose	2.00			1.733	1.929	1.900	1.889	1.891	1.8684 ± 0.0774	4.14	93.4		
	0.500			0.400	0.404	0.439	0.371	0.382	0.3990 ± 0.025	6.48	79.8		
Polyester/cotton	2.00			1.914	1.707	1.785	1.855	1.7409	1.8002 ± 0.0844	4.69	90.0		
	0.500			0.438	0.440	0.451	0.348	0.450	0.4254 ± 0.0437	10.26	85.1		
23	Propetamphos			Wool-adjacent fabric	2.00	1.853	1.915	1.724	1.724	1.927	1.8286 ± 0.0995	5.44	91.4
					0.500	0.476	0.400	0.485	0.457	0.360	0.4358 ± 0.0539	12.36	87.2
				Cotton-adjacent fabric	2.00	1.939	1.848	1.926	1.859	1.743	1.8630 ± 0.0781	4.19	93.2
					0.500	0.450	0.381	0.445	0.431	0.360	0.4131 ± 0.0405	9.80	82.6
				Silk-adjacent fabric	2.00	1.770	2.040	1.793	1.878	1.821	1.8604 ± 0.1082	5.82	93.0
					0.500	0.413	0.493	0.437	0.467	0.462	0.4544 ± 0.0305	6.71	90.9
				Ramie-adjacent fabric	2.00	1.705	1.996	1.973	1.897	1.739	1.8620 ± 0.1335	7.17	93.1
					0.500	0.461	0.429	0.431	0.370	0.445	0.4273 ± 0.0342	8.01	85.5
		Wool/viscose	2.00	1.895	1.705	1.784	1.853	1.701	1.7876 ± 0.0868	4.86	89.4		
			0.500	0.451	0.476	0.426	0.402	0.432	0.4374 ± 0.0278	6.36	87.5		

**Table V. (Continued) The Results of Recoveries and Precisions According to Six Kinds of Textiles at Two Fortification Levels: 0.500 and 2.00 mg/kg**

No.	Pesticides	Textile sample	Two fortified contents mg/kg	Measured results mg/kg					X ± S mg/kg	CV (%)	Recoveries (%)
				1	2	3	4	5			
24	Diazinon	Polyester/cotton	2.00	1.715	2.031	1.932	1.910	1.755	1.8686 ± 0.1310	7.01	93.4
			0.500	0.348	0.460	0.406	0.490	0.348	0.4104 ± 0.0644	15.70	82.1
		Wool-adjacent fabric	2.00	1.902	1.985	1.722	1.904	1.747	1.8520 ± 0.1127	6.09	92.6
			0.500	0.431	0.467	0.366	0.341	0.467	0.4145 ± 0.0583	14.08	82.9
		Cotton-adjacent fabric	2.00	1.836	1.762	2.012	1.701	1.994	1.8610 ± 0.1383	7.43	93.1
			0.500	0.421	0.435	0.389	0.349	0.477	0.4140 ± 0.0480	11.60	82.8
		Silk-adjacent fabric	2.00	1.999	2.036	2.011	1.775	1.948	1.9538 ± 0.1050	5.37	97.7
			0.500	0.469	0.435	0.363	0.416	0.392	0.4151 ± 0.0407	9.80	83.0
		Ramie-adjacent fabric	2.00	2.010	1.935	1.729	1.743	2.050	1.8934 ± 0.1496	7.90	94.7
			0.500	0.348	0.373	0.460	0.423	0.444	0.4097 ± 0.0474	11.58	81.9
		Wool/viscose	2.00	2.030	1.770	2.044	1.713	1.936	1.8986 ± 0.1507	7.94	94.9
			0.500	0.354	0.353	0.370	0.421	0.443	0.3881 ± 0.0414	10.66	77.6
25	Disulfoton	Polyester/cotton	2.00	1.804	1.755	2.035	1.915	1.889	1.8796 ± 0.1081	5.75	94.0
			0.500	0.454	0.491	0.348	0.420	0.470	0.4365 ± 0.0556	12.74	87.3
		Wool-adjacent fabric	2.00	1.944	1.999	1.890	1.722	1.940	1.8990 ± 0.1062	5.59	95.0
			0.500	0.444	0.348	0.398	0.392	0.353	0.3870 ± 0.0390	10.07	77.4
		Cotton-adjacent fabric	2.00	1.743	1.741	2.017	2.031	1.930	1.8924 ± 0.1426	7.54	94.6
			0.500	0.459	0.440	0.470	0.387	0.456	0.4426 ± 0.0327	7.38	88.5
		Silk-adjacent fabric	2.00	1.915	2.047	1.835	1.882	1.861	1.9080 ± 0.0830	4.35	95.4
			0.500	0.469	0.362	0.344	0.367	0.495	0.4073 ± 0.0693	17.01	81.5
		Ramie-adjacent fabric	2.00	1.976	1.947	1.812	1.702	1.942	1.8758 ± 0.1159	6.18	93.8
			0.500	0.428	0.467	0.436	0.494	0.479	0.4608 ± 0.0279	6.05	92.2
		Wool/viscose	2.00	2.041	2.017	1.795	1.897	1.910	1.9320 ± 0.0995	5.15	96.6
			0.500	0.444	0.450	0.365	0.486	0.363	0.4217 ± 0.0548	13.00	84.3
26	δ-BHC	Polyester/cotton	2.00	1.777	1.891	1.990	1.980	1.764	1.8804 ± 0.1076	5.72	94.0
			0.500	0.422	0.483	0.426	0.377	0.425	0.4265 ± 0.0378	8.87	85.3
		Wool-adjacent fabric	2.00	1.778	2.017	1.864	1.745	1.861	1.8530 ± 0.1053	5.68	92.7
			0.500	0.466	0.372	0.482	0.429	0.395	0.4288 ± 0.0463	10.80	85.8
		Cotton-adjacent fabric	2.00	1.979	1.928	1.919	1.720	1.791	1.8674 ± 0.1076	5.76	93.4
			0.500	0.372	0.465	0.447	0.393	0.392	0.4137 ± 0.0401	9.69	82.7
		Silk-adjacent fabric	2.00	1.947	1.729	1.780	1.762	1.939	1.8314 ± 0.1035	5.65	91.6
			0.500	0.403	0.370	0.390	0.342	0.350	0.3709 ± 0.0255	6.88	74.2
		Ramie-adjacent fabric	2.00	1.736	2.003	1.767	1.772	1.801	1.8158 ± 0.1072	5.90	90.8
			0.500	0.347	0.456	0.396	0.345	0.486	0.4059 ± 0.0636	15.67	81.2
		Wool/viscose	2.00	1.781	1.981	1.820	1.834	1.840	1.8512 ± 0.0761	4.11	92.6
			0.500	0.430	0.427	0.455	0.478	0.361	0.4301 ± 0.0439	10.20	86.0
27	Pirimicarb	Polyester/cotton	2.00	1.967	1.712	1.738	1.780	2.027	1.8448 ± 0.1426	7.73	92.2
			0.500	0.486	0.352	0.455	0.442	0.441	0.4352 ± 0.0501	11.51	87.0
		Wool-adjacent fabric	2.00	1.828	1.752	1.802	1.997	1.982	1.8722 ± 0.1106	5.91	93.6
			0.500	0.387	0.388	0.429	0.404	0.373	0.3960 ± 0.0213	5.38	79.2
		Cotton-adjacent fabric	2.00	1.903	1.714	1.724	2.028	1.916	1.8570 ± 0.1351	7.27	92.9
			0.500	0.397	0.354	0.468	0.389	0.350	0.3917 ± 0.0474	12.10	78.3
		Silk-adjacent fabric	2.00	2.049	1.908	1.907	1.875	2.024	1.9526 ± 0.0782	4.01	97.6
			0.500	0.450	0.479	0.379	0.356	0.485	0.4297 ± 0.0590	13.73	85.9
		Ramie-adjacent fabric	2.00	1.775	1.734	1.748	2.029	1.920	1.8412 ± 0.1285	6.98	92.1
			0.500	0.375	0.361	0.482	0.386	0.482	0.4170 ± 0.0597	14.31	83.4
		Wool/viscose	2.00	1.931	2.041	1.801	1.953	1.983	1.9418 ± 0.0889	4.58	97.1
			0.500	0.475	0.475	0.492	0.472	0.345	0.4515 ± 0.0603	13.37	90.3
28	Parathion-methyl	Polyester/cotton	2.00	1.751	1.916	1.839	1.723	1.778	1.8014 ± 0.0771	4.28	90.1
			0.500	0.364	0.459	0.456	0.453	0.491	0.4446 ± 0.0473	10.64	88.9
		Wool-adjacent fabric	2.00	1.936	1.820	1.941	1.975	1.749	1.8842 ± 0.0956	5.07	94.2
			0.500	0.282	0.387	0.303	0.391	0.298	0.3321 ± 0.0526	15.83	66.4
		Cotton-adjacent fabric	2.00	1.215	1.602	1.407	1.377	1.562	1.4326 ± 0.1554	10.84	71.6
			0.500	0.316	0.284	0.372	0.280	0.388	0.3282 ± 0.0497	15.14	65.6
			2.00	1.447	1.221	1.219	1.342	1.454	1.3366 ± 0.1153	8.63	66.8

**Table V. (Continued) The Results of Recoveries and Precisions According to Six Kinds of Textiles at Two Fortification Levels: 0.500 and 2.00 mg/kg**

No.	Pesticides	Textile sample	Two fortified contents mg/kg	Measured results mg/kg					X ± S mg/kg	CV (%)	Recoveries (%)		
				1	2	3	4	5					
29	Carbaryl	Silk-adjacent fabric	0.500	0.349	0.399	0.284	0.333	0.292	0.3313 ± 0.0468	14.14	66.3		
			2.00	1.388	1.224	1.388	1.643	1.293	1.3872 ± 0.1589	11.45	69.4		
		Ramie-adjacent fabric	0.500	0.392	0.337	0.358	0.333	0.342	0.3525 ± 0.0241	6.83	70.5		
			2.00	1.418	1.288	1.449	1.528	1.644	1.4654 ± 0.1321	9.01	73.3		
		Wool/viscose	0.500	0.340	0.355	0.317	0.398	0.332	0.3482 ± 0.0311	8.92	69.6		
			2.00	1.403	1.581	1.344	1.281	1.569	1.4356 ± 0.1344	9.36	71.8		
		Polyester/cotton	0.500	0.291	0.361	0.326	0.300	0.361	0.3275 ± 0.0328	10.02	65.5		
			2.00	1.604	1.213	1.226	1.578	1.645	1.4532 ± 0.2147	14.78	72.7		
		Wool-adjacent fabric	0.500	0.376	0.407	0.476	0.393	0.463	0.4230 ± 0.0440	10.39	84.6		
			2.00	1.808	1.818	2.028	1.958	1.934	1.9092 ± 0.0944	4.95	95.5		
		Cotton-adjacent fabric	0.500	0.401	0.481	0.469	0.405	0.367	0.4246 ± 0.0483	11.37	84.9		
			2.00	1.798	1.787	1.988	1.730	1.957	1.8520 ± 0.1135	6.13	92.6		
		Silk-adjacent fabric	0.500	0.414	0.479	0.451	0.354	0.466	0.4329 ± 0.0507	11.70	86.6		
			2.00	1.991	1.742	1.716	1.766	1.945	1.8320 ± 0.1265	6.90	91.6		
		Ramie-adjacent fabric	0.500	0.479	0.433	0.434	0.485	0.455	0.4571 ± 0.0243	5.32	91.4		
			2.00	1.750	1.870	1.826	1.911	2.008	1.8730 ± 0.0962	5.14	93.7		
		Wool/viscose	0.500	0.447	0.472	0.462	0.357	0.354	0.4184 ± 0.0582	13.90	83.7		
			2.00	1.776	2.009	1.934	1.929	2.013	1.9322 ± 0.0960	4.97	96.6		
Polyester/cotton	0.500	0.425	0.378	0.431	0.423	0.343	0.4001 ± 0.0383	9.58	80.0				
	2.00	1.902	1.731	1.980	1.778	1.825	1.8432 ± 0.0992	5.38	92.2				
30	Heptachlor	Wool-adjacent fabric	0.500	0.374	0.343	0.429	0.465	0.421	0.4063 ± 0.0481	11.85	81.3		
			2.00	2.007	1.998	1.790	2.040	2.011	1.9692 ± 0.1014	5.15	98.5		
		Cotton-adjacent fabric	0.500	0.341	0.453	0.436	0.350	0.417	0.3993 ± 0.0510	12.78	79.9		
			2.00	1.882	1.944	1.980	2.007	1.800	1.9226 ± 0.0830	4.32	96.1		
		Silk-adjacent fabric	0.500	0.395	0.402	0.458	0.476	0.371	0.4204 ± 0.0447	10.62	84.1		
			2.00	1.882	1.723	1.759	1.957	2.023	1.8688 ± 0.1275	6.82	93.4		
		Ramie-adjacent fabric	0.500	0.384	0.387	0.441	0.341	0.356	0.3818 ± 0.0381	9.97	76.4		
			2.00	1.741	1.901	1.998	1.913	2.030	1.9166 ± 0.1124	5.87	95.8		
		Wool/viscose	0.500	0.440	0.343	0.388	0.449	0.435	0.4109 ± 0.0450	10.95	82.2		
			2.00	1.703	1.941	2.003	2.050	1.760	1.8914 ± 0.1523	8.05	94.6		
		Polyester/cotton	0.500	0.367	0.351	0.422	0.406	0.472	0.4035 ± 0.0479	11.88	80.7		
			2.00	1.839	1.836	1.804	2.018	1.952	1.8898 ± 0.0910	4.82	94.5		
		31	Fenitrothion	Wool-adjacent fabric	0.500	0.414	0.473	0.353	0.414	0.461	0.4227 ± 0.0473	11.20	84.5
					2.00	1.771	1.805	2.034	1.830	1.763	1.8406 ± 0.1114	6.05	92.0
				Cotton-adjacent fabric	0.500	0.482	0.454	0.402	0.371	0.418	0.4254 ± 0.0432	10.16	85.1
					2.00	1.719	1.867	1.980	1.900	1.976	1.8884 ± 0.1065	5.64	94.4
				Silk-adjacent fabric	0.500	0.382	0.487	0.456	0.481	0.362	0.4336 ± 0.0577	13.31	86.7
					2.00	1.970	1.964	1.736	1.841	1.803	1.8628 ± 0.1023	5.49	93.1
Ramie-adjacent fabric	0.500			0.421	0.479	0.369	0.374	0.375	0.4038 ± 0.0471	11.65	80.8		
	2.00			2.005	1.720	1.991	1.836	1.888	1.8880 ± 0.1175	6.22	94.4		
Wool/viscose	0.500			0.346	0.460	0.402	0.472	0.451	0.4260 ± 0.0522	12.25	85.2		
	2.00			1.777	1.910	2.021	1.712	1.753	1.8346 ± 0.1279	6.97	91.7		
Polyester/cotton	0.500			0.400	0.493	0.452	0.381	0.400	0.4250 ± 0.0462	10.86	85.0		
	2.00			1.936	1.730	1.949	1.843	1.794	1.8504 ± 0.0932	5.04	92.5		
32	Aldrin			Wool-adjacent fabric	0.500	0.408	0.433	0.369	0.437	0.442	0.4179 ± 0.0300	7.18	83.6
					2.00	1.872	2.028	2.033	1.727	2.046	1.9412 ± 0.1393	7.18	97.1
				Cotton-adjacent fabric	0.500	0.481	0.410	0.371	0.405	0.419	0.4174 ± 0.0401	9.61	83.5
					2.00	1.942	1.738	1.973	1.767	2.014	1.8868 ± 0.1256	6.66	94.3
				Silk-adjacent fabric	0.500	0.342	0.416	0.445	0.456	0.423	0.4164 ± 0.0445	10.68	83.3
					2.00	2.039	1.710	1.900	1.767	1.987	1.8806 ± 0.1404	7.46	94.0
		Ramie-adjacent fabric	0.500	0.424	0.349	0.399	0.474	0.460	0.4211 ± 0.0501	11.91	84.2		
			2.00	1.915	1.936	1.725	2.035	1.995	1.9212 ± 0.1195	6.22	96.1		
		Wool/viscose	0.500	0.365	0.439	0.413	0.373	0.366	0.3910 ± 0.0332	8.48	78.2		
			2.00	1.955	2.025	1.752	2.016	1.983	1.9462 ± 0.1121	5.76	97.3		
		Polyester/cotton	0.500	0.403	0.474	0.397	0.380	0.424	0.4156 ± 0.0363	8.73	83.1		

**Table V. (Continued) The Results of Recoveries and Precisions According to Six Kinds of Textiles at Two Fortification Levels: 0.500 and 2.00 mg/kg**

No.	Pesticides	Textile sample	Two fortified contents mg/kg	Measured results mg/kg					$\bar{X} \pm S$ mg/kg	CV (%)	Recoveries (%)
				1	2	3	4	5			
33	Malathion	Wool-adjacent fabric	2.00	1.763	1.981	1.887	2.015	1.707	1.8706 ± 0.1338	7.15	93.5
			0.500	0.377	0.373	0.350	0.404	0.351	0.3710 ± 0.0223	6.01	74.2
		Cotton-adjacent fabric	2.00	1.759	2.037	1.772	1.927	1.797	1.8584 ± 0.1201	6.46	92.9
			0.500	0.491	0.419	0.476	0.386	0.399	0.4342 ± 0.0468	10.77	86.8
		Silk-adjacent fabric	2.00	1.969	1.754	1.974	2.035	1.712	1.8888 ± 0.1453	7.69	94.4
			0.500	0.426	0.360	0.367	0.445	0.469	0.4133 ± 0.0479	11.58	82.7
		Ramie-adjacent fabric	2.00	1.837	1.938	1.708	2.036	1.968	1.8974 ± 0.1278	6.74	94.9
			0.500	0.349	0.465	0.366	0.421	0.453	0.4106 ± 0.0514	12.53	82.1
		Wool/viscose	2.00	2.018	1.747	1.975	1.840	1.790	1.8740 ± 0.1176	6.27	93.7
			0.500	0.461	0.481	0.394	0.364	0.477	0.4355 ± 0.0529	12.15	87.1
		Polyester/cotton	2.00	1.703	1.989	1.839	1.731	1.804	1.8132 ± 0.1124	6.20	90.7
			0.500	0.457	0.406	0.406	0.358	0.349	0.3951 ± 0.0433	10.97	79.0
34	Fenthion	Wool-adjacent fabric	2.00	1.709	1.744	1.706	1.879	1.883	1.7842 ± 0.0896	5.02	89.2
			0.500	0.367	0.354	0.493	0.375	0.359	0.3895 ± 0.0581	14.92	77.9
		Cotton-adjacent fabric	2.00	1.907	1.742	1.836	2.021	1.946	1.8904 ± 0.1065	5.64	94.5
			0.500	0.412	0.396	0.381	0.371	0.438	0.3994 ± 0.0266	6.65	79.9
		Silk-adjacent fabric	2.00	1.820	2.037	2.016	2.047	1.865	1.9570 ± 0.1063	5.43	97.9
			0.500	0.372	0.458	0.479	0.364	0.341	0.4027 ± 0.0617	15.31	80.5
		Ramie-adjacent fabric	2.00	1.972	2.014	1.788	1.757	1.737	1.8536 ± 0.1294	6.98	92.7
			0.500	0.390	0.425	0.468	0.402	0.386	0.4141 ± 0.0338	8.17	82.8
		Wool/viscose	2.00	1.719	1.998	2.007	1.786	1.954	1.8928 ± 0.1318	6.96	94.6
			0.500	0.357	0.444	0.467	0.403	0.475	0.4292 ± 0.0488	11.38	85.8
		Polyester/cotton	2.00	1.774	1.856	1.815	2.041	1.766	1.8504 ± 0.1124	6.08	92.5
			0.500	0.359	0.398	0.368	0.416	0.436	0.3952 ± 0.0323	8.17	79.0
35	Chlorpyrifos	Wool-adjacent fabric	2.00	1.705	1.822	1.850	1.918	1.796	1.8182 ± 0.0779	4.29	90.9
			0.500	0.340	0.344	0.466	0.349	0.358	0.3712 ± 0.0531	14.32	74.2
		Cotton-adjacent fabric	2.00	1.964	1.732	1.827	1.866	1.742	1.8262 ± 0.0956	5.23	91.3
			0.500	0.402	0.376	0.490	0.456	0.443	0.4334 ± 0.0449	10.37	86.7
		Silk-adjacent fabric	2.00	1.798	1.908	1.928	1.706	1.736	1.8152 ± 0.0998	5.50	90.8
			0.500	0.459	0.377	0.354	0.397	0.495	0.4163 ± 0.0587	14.10	83.3
		Ramie-adjacent fabric	2.00	1.743	1.792	1.959	1.893	1.792	1.8358 ± 0.0879	4.79	91.8
			0.500	0.432	0.349	0.462	0.459	0.476	0.4355 ± 0.0512	11.75	87.1
		Wool/viscose	2.00	1.729	1.903	1.705	1.805	1.731	1.7746 ± 0.0810	4.56	88.7
			0.500	0.411	0.437	0.469	0.346	0.490	0.4305 ± 0.0560	13.01	86.1
		Polyester/cotton	2.00	2.021	1.887	1.701	1.895	1.937	1.8882 ± 0.1174	6.22	94.4
			0.500	0.381	0.419	0.487	0.351	0.378	0.4034 ± 0.0528	13.10	80.7
36	Parathion	Wool-adjacent fabric	2.00	1.737	2.010	1.745	1.712	2.017	1.8442 ± 0.1550	8.41	92.2
			0.500	0.410	0.366	0.386	0.469	0.459	0.4178 ± 0.0449	10.76	83.6
		Cotton-adjacent fabric	2.00	1.707	1.990	1.744	2.013	1.717	1.8342 ± 0.1535	8.37	91.7
			0.500	0.448	0.489	0.483	0.464	0.415	0.4596 ± 0.0296	6.44	91.9
		Silk-adjacent fabric	2.00	2.029	2.029	1.881	1.749	1.730	1.8836 ± 0.1449	7.69	94.2
			0.500	0.482	0.379	0.467	0.460	0.488	0.4553 ± 0.0442	9.70	91.1
		Ramie-adjacent fabric	2.00	1.762	1.963	1.999	1.839	1.933	1.8992 ± 0.0970	5.11	95.0
			0.500	0.393	0.454	0.413	0.398	0.484	0.4284 ± 0.0394	9.20	85.7
		Wool/viscose	2.00	1.878	1.708	1.980	2.004	1.827	1.8794 ± 0.1202	6.39	94.0
			0.500	0.445	0.489	0.373	0.460	0.458	0.4451 ± 0.0431	9.69	89.0
		Polyester/cotton	2.00	1.723	1.995	1.891	1.840	1.982	1.8862 ± 0.1116	5.92	94.3
			0.500	0.448	0.408	0.407	0.463	0.452	0.4357 ± 0.0264	6.05	87.1
37	Isodrin	Wool-adjacent fabric	2.00	1.713	1.809	1.768	1.714	1.967	1.7942 ± 0.1046	5.83	89.7
			0.500	0.458	0.400	0.366	0.376	0.414	0.4028 ± 0.0360	8.94	80.6
		Cotton-adjacent fabric	2.00	1.997	2.011	1.963	1.748	1.736	1.8910 ± 0.1372	7.26	94.6
			0.500	0.425	0.361	0.492	0.480	0.460	0.4436 ± 0.0525	11.84	88.7
		Silk-adjacent fabric	2.00	1.968	1.994	1.774	1.746	1.710	1.8384 ± 0.1325	7.21	91.9
			0.500	0.493	0.414	0.461	0.351	0.464	0.4365 ± 0.0558	12.79	87.3
			2.00	1.780	1.921	1.926	1.704	1.839	1.8340 ± 0.0947	5.16	91.7



**Table V. (Continued) The Results of Recoveries and Precisions According to Six Kinds of Textiles at Two Fortification Levels: 0.500 and 2.00 mg/kg**

No.	Pesticides	Textile sample	Two fortified contents mg/kg	Measured results mg/kg					X ± S mg/kg	CV (%)	Recoveries (%)		
				1	2	3	4	5					
38	Chlorfen- vinphos	Ramie-adjacent fabric	0.500	0.362	0.432	0.493	0.489	0.444	0.4442 ± 0.0532	11.97	88.8		
			2.00	1.731	1.982	1.777	1.817	1.936	1.8486 ± 0.1065	5.76	92.4		
		Wool/viscose	0.500	0.489	0.460	0.467	0.488	0.400	0.4606 ± 0.0365	7.93	92.1		
			2.00	1.899	1.729	1.788	1.922	1.787	1.8250 ± 0.0820	4.49	91.3		
		Polyester/cotton	0.500	0.445	0.380	0.492	0.390	0.478	0.4369 ± 0.0508	11.62	87.4		
			2.00	1.982	1.702	1.918	1.953	2.000	1.9110 ± 0.1209	6.33	95.6		
		Wool-adjacent fabric	0.500	0.430	0.370	0.477	0.369	0.369	0.4029 ± 0.0493	12.23	80.6		
			2.00	1.840	2.012	1.832	1.985	1.813	1.8964 ± 0.0942	4.97	94.8		
		Cotton-adjacent fabric	0.500	0.450	0.392	0.486	0.478	0.458	0.4527 ± 0.0370	8.16	90.5		
			2.00	1.941	1.738	1.866	1.882	1.773	1.8400 ± 0.0830	4.51	92.0		
		Silk-adjacent fabric	0.500	0.350	0.346	0.450	0.471	0.349	0.3932 ± 0.0616	15.67	78.6		
			2.00	2.050	1.817	1.892	1.920	1.937	1.9232 ± 0.0845	4.39	96.2		
		Ramie-adjacent fabric	0.500	0.458	0.493	0.480	0.476	0.378	0.4569 ± 0.0459	10.04	91.4		
			2.00	1.757	2.030	2.003	1.960	1.705	1.8910 ± 0.1493	7.90	94.6		
Wool/viscose	0.500	0.364	0.383	0.372	0.491	0.425	0.4071 ± 0.0522	12.83	81.4				
	2.00	1.726	1.981	1.870	2.046	2.024	1.9294 ± 0.1324	6.86	96.5				
Polyester/cotton	0.500	0.405	0.449	0.352	0.388	0.389	0.3963 ± 0.0351	8.86	79.3				
	2.00	1.785	1.998	1.946	2.026	1.834	1.9178 ± 0.1044	5.44	95.9				
39	Heptachlor epoxide	Wool-adjacent fabric	0.500	0.488	0.478	0.366	0.440	0.449	0.4441 ± 0.0481	10.83	88.8		
			2.00	2.044	1.938	1.770	2.045	1.972	1.9538 ± 0.1127	5.77	97.7		
		Cotton-adjacent fabric	0.500	0.494	0.454	0.433	0.375	0.438	0.4390 ± 0.0430	9.79	87.8		
			2.00	1.911	1.986	1.757	1.968	1.847	1.8938 ± 0.0938	4.95	94.7		
		Silk-adjacent fabric	0.500	0.400	0.351	0.432	0.444	0.468	0.4188 ± 0.0452	10.80	83.8		
			2.00	2.050	1.839	1.784	1.756	2.019	1.8896 ± 0.1360	7.20	94.5		
		Ramie-adjacent fabric	0.500	0.344	0.373	0.370	0.469	0.362	0.3834 ± 0.0490	12.78	76.7		
			2.00	1.748	1.752	1.966	1.853	1.860	1.8358 ± 0.0902	4.91	91.8		
		Wool/viscose	0.500	0.412	0.345	0.430	0.466	0.460	0.4227 ± 0.0490	11.60	84.5		
			2.00	1.817	1.737	1.907	2.033	1.765	1.8518 ± 0.1202	6.49	92.6		
		Polyester/cotton	0.500	0.400	0.472	0.430	0.485	0.395	0.4362 ± 0.0412	9.44	87.2		
			2.00	2.024	1.712	1.852	1.879	1.734	1.8402 ± 0.1256	6.83	92.0		
		40	Quinalphos	Wool-adjacent fabric	0.500	0.365	0.370	0.434	0.492	0.480	0.4280 ± 0.0596	13.94	85.6
					2.00	1.709	1.967	1.967	1.938	1.945	1.9052 ± 0.1104	5.80	95.3
Cotton-adjacent fabric	0.500			0.466	0.410	0.348	0.390	0.381	0.3989 ± 0.0438	10.99	79.8		
	2.00			1.701	2.010	1.750	1.733	1.953	1.8294 ± 0.1414	7.73	91.5		
Silk-adjacent fabric	0.500			0.415	0.437	0.470	0.417	0.461	0.4399 ± 0.0249	5.65	88.0		
	2.00			1.959	1.871	1.854	1.984	1.727	1.8790 ± 0.1015	5.40	94.0		
Ramie-adjacent fabric	0.500			0.414	0.411	0.411	0.494	0.453	0.4364 ± 0.0367	8.40	87.3		
	2.00			2.010	1.921	1.860	2.046	1.875	1.9424 ± 0.0823	4.24	97.1		
Wool/viscose	0.500			0.395	0.379	0.345	0.383	0.472	0.3947 ± 0.0471	11.94	78.9		
	2.00			2.037	1.738	1.974	1.775	1.739	1.8526 ± 0.1421	7.67	92.6		
Polyester/cotton	0.500			0.357	0.469	0.494	0.442	0.454	0.4432 ± 0.0521	11.76	88.6		
	2.00			1.701	2.026	1.772	1.703	1.791	1.7986 ± 0.1334	7.41	89.9		
41	cis-Chlordane			Wool-adjacent fabric	0.500	0.351	0.430	0.454	0.429	0.457	0.4242 ± 0.0427	10.08	84.8
					2.00	1.918	1.856	1.981	2.000	1.778	1.9066 ± 0.0915	4.80	95.3
		Cotton-adjacent fabric	0.500	0.485	0.462	0.353	0.368	0.436	0.4208 ± 0.0580	13.79	84.2		
			2.00	2.003	2.013	1.730	1.955	1.929	1.9260 ± 0.1149	5.96	96.3		
		Silk-adjacent fabric	0.500	0.354	0.405	0.385	0.378	0.423	0.3890 ± 0.0266	6.83	77.8		
			2.00	1.995	2.023	1.853	1.846	1.912	1.9258 ± 0.0808	4.19	96.3		
		Ramie-adjacent fabric	0.500	0.434	0.397	0.365	0.452	0.401	0.4095 ± 0.0340	8.31	81.9		
			2.00	2.032	1.792	1.857	1.829	1.918	1.8856 ± 0.0939	4.98	94.3		
		Wool/viscose	0.500	0.375	0.374	0.411	0.424	0.439	0.4044 ± 0.0293	7.24	80.9		
			2.00	1.768	1.965	2.023	1.791	1.829	1.8752 ± 0.1125	6.00	93.8		
		Polyester/cotton	0.500	0.446	0.478	0.414	0.356	0.436	0.4258 ± 0.0454	10.67	85.2		
			2.00	1.809	2.027	1.914	1.796	1.802	1.8696 ± 0.1005	5.38	93.5		

**Table V. (Continued) The Results of Recoveries and Precisions According to Six Kinds of Textiles at Two Fortification Levels: 0.500 and 2.00 mg/kg**

No.	Pesticides	Textile sample	Two fortified contents mg/kg	Measured results mg/kg					X ± S mg/kg	CV (%)	Recoveries (%)		
				1	2	3	4	5					
42	<i>o,p'</i> -DDE	Wool-adjacent fabric	0.500	0.343	0.424	0.354	0.475	0.421	0.4033 ± 0.0546	13.54	80.7		
			2.00	1.988	1.742	1.917	1.754	1.725	1.8252 ± 0.1193	6.54	91.3		
		Cotton-adjacent fabric	0.500	0.399	0.471	0.388	0.378	0.413	0.4097 ± 0.0364	8.89	81.9		
			2.00	1.998	1.780	1.818	1.992	1.986	1.9148 ± 0.1066	5.57	95.7		
		Silk-adjacent fabric	0.500	0.478	0.347	0.457	0.387	0.354	0.4046 ± 0.0598	14.79	80.9		
			2.00	1.812	1.865	1.963	1.727	1.853	1.8440 ± 0.0857	4.65	92.2		
		Ramie-adjacent fabric	0.500	0.482	0.362	0.411	0.467	0.431	0.4305 ± 0.0478	11.10	86.1		
			2.00	1.871	1.908	1.829	1.706	1.911	1.8450 ± 0.0845	4.58	92.3		
		Wool/viscose	0.500	0.394	0.471	0.400	0.366	0.431	0.4123 ± 0.0400	9.70	82.5		
			2.00	1.895	1.789	1.998	1.799	1.718	1.8398 ± 0.1086	5.90	92.0		
		Polyester/cotton	0.500	0.458	0.375	0.377	0.469	0.387	0.4130 ± 0.0466	11.28	82.6		
			2.00	1.813	1.923	1.811	1.821	2.039	1.8814 ± 0.0998	5.31	94.1		
		43	Bromophos-ethyl	Wool-adjacent fabric	0.500	0.469	0.471	0.363	0.424	0.378	0.4210 ± 0.0500	11.88	84.2
					2.00	1.703	1.841	2.034	1.750	1.986	1.8628 ± 0.1442	7.74	93.1
Cotton-adjacent fabric	0.500			0.400	0.386	0.421	0.438	0.341	0.3971 ± 0.0370	9.32	79.4		
	2.00			2.045	1.727	1.768	1.876	1.824	1.8480 ± 0.1237	6.69	92.4		
Silk-adjacent fabric	0.500			0.409	0.366	0.397	0.411	0.477	0.4120 ± 0.0406	9.85	82.4		
	2.00			1.722	1.730	1.834	1.904	2.042	1.8464 ± 0.1330	7.20	92.3		
Ramie-adjacent fabric	0.500			0.378	0.493	0.362	0.457	0.359	0.4096 ± 0.0613	14.97	81.9		
	2.00			1.947	1.828	1.772	1.923	1.974	1.8888 ± 0.0854	4.52	94.4		
Wool/viscose	0.500			0.433	0.429	0.465	0.370	0.376	0.4146 ± 0.0406	9.78	82.9		
	2.00			1.952	1.827	1.916	1.710	1.947	1.8704 ± 0.1027	5.49	93.5		
Polyester/cotton	0.500			0.493	0.360	0.400	0.375	0.488	0.4233 ± 0.0629	14.87	84.7		
	2.00			1.834	1.729	1.722	1.792	1.935	1.8024 ± 0.0874	4.85	90.1		
44	Endosulfan ( $\alpha$ -isomer)			Wool-adjacent fabric	0.500	0.454	0.342	0.494	0.370	0.433	0.4188 ± 0.0620	14.81	83.8
					2.00	1.923	1.994	1.904	1.770	1.895	1.8972 ± 0.0810	4.27	94.9
		Cotton-adjacent fabric	0.500	0.377	0.368	0.422	0.486	0.461	0.4229 ± 0.0514	12.16	84.6		
			2.00	1.756	1.717	1.962	1.932	1.730	1.8194 ± 0.1178	6.47	91.0		
		Silk-adjacent fabric	0.500	0.476	0.414	0.425	0.381	0.444	0.4280 ± 0.0351	8.19	85.6		
			2.00	1.810	1.968	1.732	1.870	1.765	1.8290 ± 0.0934	5.10	91.5		
		Ramie-adjacent fabric	0.500	0.481	0.413	0.454	0.492	0.355	0.4390 ± 0.0559	12.73	87.8		
			2.00	1.810	2.025	1.919	1.985	1.837	1.9152 ± 0.0924	4.82	95.8		
		Wool/viscose	0.500	0.404	0.488	0.364	0.374	0.352	0.3965 ± 0.0549	13.83	79.3		
			2.00	1.794	1.813	1.990	1.935	1.810	1.8684 ± 0.0884	4.73	93.4		
		Polyester/cotton	0.500	0.492	0.428	0.396	0.354	0.407	0.4155 ± 0.0508	12.22	83.1		
			2.00	1.754	1.981	1.814	1.944	1.937	1.8860 ± 0.0970	5.14	94.3		
		45	Tetrachlorvinphos	Wool-adjacent fabric	0.500	0.352	0.442	0.463	0.470	0.368	0.4189 ± 0.0553	13.19	83.8
					2.00	1.751	1.996	2.040	1.726	1.985	1.8996 ± 0.1488	7.83	95.0
Cotton-adjacent fabric	0.500			0.492	0.439	0.376	0.379	0.380	0.4130 ± 0.0512	12.40	82.6		
	2.00			2.031	1.833	1.893	1.868	2.038	1.9326 ± 0.0955	4.94	96.6		
Silk-adjacent fabric	0.500			0.468	0.430	0.431	0.444	0.471	0.4489 ± 0.0198	4.40	89.8		
	2.00			1.966	1.872	1.831	1.887	2.036	1.9184 ± 0.0820	4.27	95.9		
Ramie-adjacent fabric	0.500			0.454	0.482	0.384	0.411	0.366	0.4194 ± 0.0483	11.51	83.9		
	2.00			1.707	2.042	1.706	1.982	1.834	1.8542 ± 0.1546	8.34	92.7		
Wool/viscose	0.500			0.468	0.376	0.474	0.478	0.460	0.4514 ± 0.0425	9.41	90.3		
	2.00			1.764	2.015	1.862	1.777	1.792	1.8420 ± 0.1038	5.64	92.1		
Polyester/cotton	0.500			0.477	0.359	0.462	0.374	0.384	0.4111 ± 0.0543	13.21	82.2		
	2.00			1.894	2.049	1.867	1.742	1.727	1.8558 ± 0.1308	7.05	92.8		
46	<i>trans</i> -Chlordane			Wool-adjacent fabric	0.500	0.488	0.449	0.478	0.415	0.468	0.4595 ± 0.0287	6.26	91.9
					2.00	1.994	1.712	2.038	1.957	1.734	1.8870 ± 0.1526	8.09	94.4
		Cotton-adjacent fabric	0.500	0.458	0.348	0.348	0.486	0.414	0.4108 ± 0.0628	15.29	82.2		
			2.00	1.987	1.847	2.031	1.818	2.026	1.9418 ± 0.1017	5.24	97.1		
		Silk-adjacent fabric	0.500	0.453	0.492	0.396	0.390	0.354	0.4170 ± 0.0549	13.17	83.4		
			2.00	1.926	1.756	1.953	1.983	1.897	1.9030 ± 0.0881	4.63	95.2		
		Ramie-adjacent fabric	0.500	0.398	0.487	0.483	0.342	0.432	0.4286 ± 0.0608	14.18	85.7		

**Table V. (Continued) The Results of Recoveries and Precisions According to Six Kinds of Textiles at Two Fortification Levels: 0.500 and 2.00 mg/kg**

No.	Pesticides	Textile sample	Two fortified contents mg/kg	Measured results mg/kg					X ± S mg/kg	CV (%)	Recoveries (%)
				1	2	3	4	5			
47	Profenofos	Wool/viscose	2.00	1.901	2.031	1.772	1.886	2.047	1.9274 ± 0.1136	5.89	96.4
			0.500	0.420	0.345	0.394	0.409	0.347	0.3832 ± 0.0349	9.11	76.6
		Polyester/cotton	2.00	1.800	1.906	1.838	1.838	2.022	1.8808 ± 0.0877	4.66	94.0
			0.500	0.488	0.441	0.422	0.387	0.367	0.4210 ± 0.0474	11.26	84.2
		Wool-adjacent fabric	2.00	1.754	1.721	1.965	1.906	1.831	1.8354 ± 0.1019	5.55	91.8
			0.500	0.484	0.479	0.430	0.389	0.409	0.4380 ± 0.0422	9.62	87.6
		Cotton-adjacent fabric	2.00	1.904	1.737	2.041	2.009	2.004	1.9390 ± 0.1241	6.40	97.0
			0.500	0.462	0.459	0.449	0.362	0.392	0.4250 ± 0.0454	10.69	85.0
		Silk-adjacent fabric	2.00	1.853	1.917	1.982	1.805	2.047	1.9208 ± 0.0971	5.05	96.0
			0.500	0.344	0.398	0.395	0.472	0.364	0.3946 ± 0.0487	12.34	78.9
		Ramie-adjacent fabric	2.00	1.937	1.757	2.014	1.766	1.985	1.8918 ± 0.1221	6.46	94.6
			0.500	0.431	0.456	0.340	0.361	0.397	0.3969 ± 0.0478	12.05	79.4
48	Dieldrin	Wool/viscose	2.00	1.827	1.777	1.863	1.977	1.904	1.8696 ± 0.0761	4.07	93.5
			0.500	0.488	0.345	0.477	0.407	0.374	0.4181 ± 0.0626	14.97	83.6
		Polyester/cotton	2.00	2.001	1.890	1.920	1.812	2.006	1.9258 ± 0.0812	4.21	96.3
			0.500	0.351	0.400	0.366	0.494	0.439	0.4098 ± 0.0577	14.09	82.0
		Wool-adjacent fabric	2.00	1.765	1.764	1.791	1.913	1.932	1.8330 ± 0.0827	4.51	91.7
			0.500	0.466	0.393	0.388	0.437	0.381	0.4129 ± 0.0366	8.87	82.6
		Cotton-adjacent fabric	2.00	2.028	1.769	1.860	1.880	1.921	1.8916 ± 0.0944	4.99	94.6
			0.500	0.494	0.346	0.482	0.356	0.411	0.4178 ± 0.0689	16.49	83.6
		Silk-adjacent fabric	2.00	1.876	1.978	1.874	1.711	1.858	1.8594 ± 0.0956	5.14	93.0
			0.500	0.408	0.413	0.409	0.488	0.405	0.4246 ± 0.0356	8.38	84.9
		Ramie-adjacent fabric	2.00	1.852	1.747	1.757	1.734	1.895	1.7970 ± 0.0719	4.00	89.9
			0.500	0.380	0.370	0.356	0.442	0.378	0.3852 ± 0.0332	8.62	77.0
49	<i>p,p'</i> -DDE	Wool/viscose	2.00	2.033	1.741	1.850	1.989	2.024	1.9274 ± 0.1275	6.61	96.4
			0.500	0.492	0.380	0.417	0.354	0.454	0.4196 ± 0.0555	13.22	83.9
		Polyester/cotton	2.00	1.918	1.743	2.035	1.774	1.996	1.8932 ± 0.1304	6.89	94.7
			0.500	0.456	0.416	0.449	0.440	0.384	0.4290 ± 0.0295	6.87	85.8
		Wool-adjacent fabric	2.00	1.763	1.715	1.753	1.707	1.932	1.7740 ± 0.0915	5.16	88.7
			0.500	0.341	0.464	0.455	0.412	0.409	0.4161 ± 0.0486	11.67	83.2
		Cotton-adjacent fabric	2.00	1.956	1.967	1.704	1.954	1.762	1.8686 ± 0.1256	6.72	93.4
			0.500	0.449	0.377	0.487	0.380	0.408	0.4202 ± 0.0470	11.18	84.0
		Silk-adjacent fabric	2.00	1.846	2.037	2.036	1.913	1.899	1.9462 ± 0.0861	4.43	97.3
			0.500	0.416	0.397	0.476	0.430	0.400	0.4238 ± 0.0322	7.61	84.8
		Ramie-adjacent fabric	2.00	2.002	1.930	1.981	1.719	1.736	1.8736 ± 0.1360	7.26	93.7
			0.500	0.390	0.363	0.381	0.449	0.486	0.4138 ± 0.0514	12.43	82.8
50	<i>o,p'</i> -DDD	Wool/viscose	2.00	1.718	1.874	1.990	2.050	1.857	1.8978 ± 0.1287	6.78	94.9
			0.500	0.424	0.349	0.354	0.400	0.400	0.3853 ± 0.0325	8.43	77.1
		Polyester/cotton	2.00	1.854	1.742	1.806	1.949	1.808	1.8318 ± 0.0767	4.19	91.6
			0.500	0.490	0.360	0.463	0.377	0.355	0.4087 ± 0.0629	15.38	81.7
		Wool-adjacent fabric	2.00	2.042	1.814	1.837	1.723	1.809	1.8450 ± 0.1183	6.41	92.3
			0.500	0.410	0.341	0.444	0.484	0.355	0.4067 ± 0.0598	14.71	81.3
		Cotton-adjacent fabric	2.00	1.851	1.756	1.749	2.045	1.720	1.8242 ± 0.1329	7.28	91.2
			0.500	0.455	0.419	0.417	0.409	0.464	0.4327 ± 0.0246	5.69	86.5
		Silk-adjacent fabric	2.00	1.708	1.931	1.927	1.719	1.705	1.7980 ± 0.1197	6.66	89.9
			0.500	0.442	0.459	0.350	0.380	0.423	0.4107 ± 0.0450	10.97	82.1
		Ramie-adjacent fabric	2.00	1.823	2.043	1.726	1.971	1.708	1.8542 ± 0.1484	8.00	92.7
			0.500	0.458	0.455	0.435	0.399	0.471	0.4434 ± 0.0281	6.34	88.7
51	Endrin	Wool/viscose	2.00	1.786	1.941	1.900	1.982	1.811	1.8840 ± 0.0837	4.44	94.2
			0.500	0.489	0.445	0.436	0.345	0.477	0.4384 ± 0.0568	12.95	87.7
		Polyester/cotton	2.00	1.952	2.018	1.876	1.809	2.042	1.9394 ± 0.0973	5.02	97.0
			0.500	0.473	0.426	0.427	0.360	0.466	0.4306 ± 0.0448	10.40	86.1
		Wool-adjacent fabric	2.00	2.048	1.860	1.977	1.915	2.050	1.9700 ± 0.0832	4.22	98.5
			0.500	0.342	0.474	0.490	0.388	0.405	0.4197 ± 0.0617	14.71	83.9
		Cotton-adjacent fabric	2.00	1.765	1.827	1.986	1.721	1.747	1.8092 ± 0.1063	5.87	90.5

**Table V. (Continued) The Results of Recoveries and Precisions According to Six Kinds of Textiles at Two Fortification Levels: 0.500 and 2.00 mg/kg**

No.	Pesticides	Textile sample	Two fortified contents mg/kg	Measured results mg/kg					X ± S mg/kg	CV (%)	Recoveries (%)		
				1	2	3	4	5					
52	Endosulfan (β-isomer)	Cotton-adjacent fabric	0.500	0.478	0.424	0.386	0.460	0.480	0.4455 ± 0.0403	9.05	89.1		
			2.00	2.045	1.718	1.769	1.899	1.867	1.8596 ± 0.1267	6.81	93.0		
		Silk-adjacent fabric	0.500	0.379	0.427	0.485	0.440	0.489	0.4439 ± 0.0454	10.24	88.8		
			2.00	1.777	1.933	1.786	1.720	1.842	1.8116 ± 0.0805	4.44	90.6		
		Ramie-adjacent fabric	0.500	0.393	0.491	0.371	0.374	0.479	0.4215 ± 0.0588	13.94	84.3		
			2.00	1.940	1.848	1.843	1.754	2.020	1.8810 ± 0.1018	5.41	94.1		
		Wool/viscose	0.500	0.385	0.421	0.371	0.399	0.492	0.4136 ± 0.0476	11.52	82.7		
			2.00	1.735	2.019	1.894	1.752	1.796	1.8392 ± 0.1180	6.41	92.0		
		Polyester/cotton	0.500	0.445	0.476	0.489	0.387	0.461	0.4515 ± 0.0395	8.75	90.3		
			2.00	1.819	1.765	1.713	1.961	1.839	1.8194 ± 0.0932	5.12	91.0		
		Wool-adjacent fabric	0.500	0.429	0.457	0.473	0.345	0.355	0.4118 ± 0.0590	14.32	82.4		
			2.00	1.901	1.716	1.841	1.744	1.977	1.8358 ± 0.1084	5.90	91.8		
		Cotton-adjacent fabric	0.500	0.438	0.372	0.342	0.413	0.493	0.4115 ± 0.0588	14.29	82.3		
			2.00	1.837	1.714	1.852	1.888	1.945	1.8472 ± 0.0853	4.62	92.4		
		Silk-adjacent fabric	0.500	0.483	0.453	0.464	0.360	0.369	0.4255 ± 0.0570	13.39	85.1		
			2.00	1.879	1.744	2.018	1.970	1.825	1.8872 ± 0.1100	5.83	94.4		
Ramie-adjacent fabric	0.500	0.361	0.384	0.455	0.442	0.399	0.4080 ± 0.0394	9.65	81.6				
	2.00	1.828	1.885	1.743	1.954	1.711	1.8242 ± 0.1000	5.48	91.2				
Wool/viscose	0.500	0.420	0.369	0.367	0.431	0.427	0.4028 ± 0.0320	7.96	80.6				
	2.00	2.031	1.932	1.825	1.797	1.945	1.9060 ± 0.0952	5.00	95.3				
Polyester/cotton	0.500	0.467	0.354	0.344	0.453	0.479	0.4192 ± 0.0651	15.54	83.8				
	2.00	1.850	1.725	2.014	2.031	1.902	1.9044 ± 0.1257	6.60	95.2				
53	<i>p,p'</i> -DDD	Wool-adjacent fabric	0.500	0.480	0.431	0.469	0.428	0.474	0.4564 ± 0.0249	5.45	91.3		
			2.00	1.978	1.948	1.790	1.886	1.991	1.9186 ± 0.0825	4.30	95.9		
		Cotton-adjacent fabric	0.500	0.461	0.370	0.479	0.481	0.366	0.4314 ± 0.0583	13.52	86.3		
			2.00	1.824	1.992	1.947	1.745	1.804	1.8624 ± 0.1032	5.54	93.1		
		Silk-adjacent fabric	0.500	0.378	0.468	0.494	0.373	0.491	0.4408 ± 0.0604	13.71	88.2		
			2.00	1.937	1.968	2.026	1.707	2.035	1.9346 ± 0.1336	6.90	96.7		
		Ramie-adjacent fabric	0.500	0.489	0.456	0.356	0.435	0.491	0.4453 ± 0.0555	12.46	89.1		
			2.00	1.715	1.990	1.918	1.957	1.912	1.8984 ± 0.1073	5.65	94.9		
		Wool/viscose	0.500	0.484	0.486	0.394	0.347	0.356	0.4132 ± 0.0677	16.39	82.6		
			2.00	1.890	1.923	1.827	1.834	2.032	1.9012 ± 0.0833	4.38	95.1		
		Polyester/cotton	0.500	0.399	0.364	0.362	0.437	0.373	0.3869 ± 0.0317	8.19	77.4		
			2.00	1.890	1.712	1.848	1.759	1.877	1.8172 ± 0.0779	4.29	90.9		
		54	<i>o,p'</i> -DDT	Wool-adjacent fabric	0.500	0.455	0.350	0.448	0.473	0.375	0.4203 ± 0.0542	12.90	84.1
					2.00	1.720	1.829	2.008	1.826	1.996	1.8758 ± 0.1234	6.58	93.8
				Cotton-adjacent fabric	0.500	0.464	0.440	0.408	0.408	0.450	0.4338 ± 0.0254	5.85	86.8
					2.00	1.794	1.854	1.771	1.969	1.745	1.8266 ± 0.0892	4.88	91.3
Silk-adjacent fabric	0.500			0.406	0.397	0.445	0.477	0.470	0.4391 ± 0.0363	8.27	87.8		
	2.00			2.007	1.816	1.972	1.911	1.870	1.9152 ± 0.0767	4.01	95.8		
Ramie-adjacent fabric	0.500			0.342	0.419	0.359	0.396	0.479	0.3990 ± 0.0539	13.52	79.8		
	2.00			1.744	1.707	1.851	2.045	1.970	1.8634 ± 0.1442	7.74	93.2		
Wool/viscose	0.500			0.443	0.384	0.344	0.477	0.401	0.4097 ± 0.0518	12.65	81.9		
	2.00			1.703	1.722	2.036	2.049	1.868	1.8756 ± 0.1653	8.81	93.8		
Polyester/cotton	0.500			0.429	0.492	0.373	0.397	0.356	0.4094 ± 0.0537	13.11	81.9		
	2.00			1.962	2.041	2.017	1.787	1.859	1.9332 ± 0.1076	5.57	96.7		
55	<i>S,S,S</i> -tributyl phosphorotrithioate			Wool-adjacent fabric	0.500	0.385	0.472	0.405	0.386	0.466	0.4229 ± 0.0430	10.16	84.6
					2.00	1.706	1.779	2.044	1.875	1.818	1.8444 ± 0.1274	6.91	92.2
				Cotton-adjacent fabric	0.500	0.488	0.431	0.467	0.470	0.494	0.4700 ± 0.0243	5.18	94.0
					2.00	1.837	1.917	1.823	1.838	1.712	1.8254 ± 0.0734	4.02	91.3
		Silk-adjacent fabric	0.500	0.469	0.426	0.419	0.367	0.344	0.4048 ± 0.0495	12.23	81.0		
			2.00	1.742	1.743	1.748	2.005	1.844	1.8164 ± 0.1139	6.27	90.8		
		Ramie-adjacent fabric	0.500	0.409	0.355	0.444	0.449	0.358	0.4028 ± 0.0451	11.21	80.6		
			2.00	1.795	2.046	1.922	1.780	1.733	1.8552 ± 0.1276	6.88	92.8		

**Table V. (Continued) The Results of Recoveries and Precisions According to Six Kinds of Textiles at Two Fortification Levels: 0.500 and 2.00 mg/kg**

No.	Pesticides	Textile sample	Two fortified contents mg/kg	Measured results mg/kg					X ± S mg/kg	CV (%)	Recoveries (%)		
				1	2	3	4	5					
56	Triazophos	Wool/viscose	0.500	0.410	0.380	0.438	0.357	0.362	0.3894 ± 0.0342	8.78	77.9		
			2.00	1.709	1.967	1.803	1.953	1.881	1.8626 ± 0.1079	5.79	93.1		
		Polyester/cotton	0.500	0.380	0.356	0.436	0.429	0.437	0.4074 ± 0.0371	9.10	81.5		
			2.00	1.995	1.785	1.721	1.935	1.958	1.8788 ± 0.1190	6.33	93.9		
		Wool-adjacent fabric	0.500	0.494	0.394	0.387	0.363	0.446	0.4166 ± 0.0526	12.62	83.3		
			2.00	1.941	1.964	1.824	2.050	1.800	1.9158 ± 0.1034	5.40	95.8		
		Cotton-adjacent fabric	0.500	0.413	0.352	0.436	0.421	0.471	0.4183 ± 0.0434	10.37	83.7		
			2.00	1.736	1.749	1.748	1.992	1.721	1.7892 ± 0.1139	6.37	89.5		
		Silk-adjacent fabric	0.500	0.466	0.343	0.401	0.378	0.344	0.3862 ± 0.0509	13.17	77.2		
			2.00	1.705	1.994	2.001	1.951	1.875	1.9052 ± 0.1226	6.44	95.3		
		Ramie-adjacent fabric	0.500	0.380	0.375	0.419	0.375	0.364	0.3828 ± 0.0213	5.55	76.6		
			2.00	1.997	2.026	2.045	1.743	1.902	1.9426 ± 0.1244	6.40	97.1		
		57	Edifenphos	Wool/viscose	0.500	0.378	0.428	0.362	0.451	0.344	0.3925 ± 0.0454	11.58	78.5
					2.00	2.036	2.040	1.881	1.757	1.815	1.9058 ± 0.1284	6.74	95.3
Polyester/cotton	0.500			0.485	0.385	0.375	0.481	0.431	0.4313 ± 0.0514	11.91	86.3		
	2.00			1.830	1.998	1.782	1.850	1.917	1.8754 ± 0.0840	4.48	93.8		
Wool-adjacent fabric	0.500			0.484	0.425	0.368	0.417	0.351	0.4088 ± 0.0524	12.83	81.8		
	2.00			1.836	1.869	2.014	2.014	2.001	1.9468 ± 0.0870	4.47	97.3		
Cotton-adjacent fabric	0.500			0.350	0.486	0.444	0.412	0.348	0.4078 ± 0.0600	14.72	81.6		
	2.00			1.870	1.755	1.771	1.875	1.998	1.8538 ± 0.0976	5.27	92.7		
Silk-adjacent fabric	0.500			0.364	0.395	0.448	0.418	0.450	0.4150 ± 0.0363	8.74	83.0		
	2.00			1.800	1.892	1.880	1.956	1.706	1.8468 ± 0.0963	5.21	92.3		
Ramie-adjacent fabric	0.500			0.415	0.495	0.471	0.409	0.349	0.4278 ± 0.0571	13.36	85.6		
	2.00			2.017	1.825	1.954	2.017	1.822	1.9270 ± 0.0979	5.08	96.4		
58	<i>p,p'</i> -DDT			Wool/viscose	0.500	0.466	0.440	0.435	0.406	0.404	0.4303 ± 0.0257	5.97	86.1
					2.00	1.716	1.833	2.027	1.726	1.742	1.8088 ± 0.1305	7.22	90.4
		Polyester/cotton	0.500	0.491	0.376	0.487	0.468	0.490	0.4623 ± 0.0493	10.66	92.5		
			2.00	2.008	2.031	2.036	1.803	1.896	1.9548 ± 0.1021	5.23	97.7		
		Wool-adjacent fabric	0.500	0.362	0.470	0.478	0.468	0.423	0.4403 ± 0.0486	11.03	88.1		
			2.00	2.003	1.743	1.712	1.892	1.993	1.8686 ± 0.1364	7.30	93.4		
		Cotton-adjacent fabric	0.500	0.349	0.376	0.402	0.435	0.385	0.3892 ± 0.0320	8.23	77.8		
			2.00	1.751	1.801	1.968	1.921	1.767	1.8416 ± 0.0971	5.27	92.1		
		Silk-adjacent fabric	0.500	0.465	0.354	0.356	0.445	0.486	0.4212 ± 0.0622	14.76	84.2		
			2.00	1.799	1.795	2.019	1.989	1.820	1.8844 ± 0.1101	5.84	94.2		
		Ramie-adjacent fabric	0.500	0.487	0.435	0.464	0.457	0.362	0.4408 ± 0.0480	10.89	88.2		
			2.00	1.747	1.843	1.982	2.003	1.828	1.8806 ± 0.1087	5.78	94.0		
		59	EPN	Wool/viscose	0.500	0.416	0.423	0.493	0.476	0.445	0.4507 ± 0.0331	7.35	90.1
					2.00	2.001	1.738	1.895	1.935	1.959	1.9056 ± 0.1013	5.31	95.3
Polyester/cotton	0.500			0.348	0.372	0.403	0.342	0.379	0.3687 ± 0.0247	6.70	73.7		
	2.00			1.851	1.711	1.912	1.812	1.704	1.7980 ± 0.0900	5.01	89.9		
Wool-adjacent fabric	0.500			0.471	0.405	0.436	0.422	0.444	0.4355 ± 0.0247	5.67	87.1		
	2.00			2.000	1.911	1.930	1.738	1.863	1.8884 ± 0.0974	5.16	94.4		
Cotton-adjacent fabric	0.500			0.463	0.407	0.459	0.425	0.393	0.4293 ± 0.0312	7.26	85.9		
	2.00			1.936	1.892	2.014	1.707	1.888	1.8874 ± 0.1129	5.98	94.4		
Silk-adjacent fabric	0.500			0.460	0.401	0.357	0.397	0.417	0.4063 ± 0.0371	9.14	81.3		
	2.00			1.723	1.722	2.044	1.842	1.812	1.8286 ± 0.1317	7.20	91.4		
Ramie-adjacent fabric	0.500			0.465	0.403	0.400	0.370	0.419	0.4114 ± 0.0348	8.47	82.3		
	2.00			1.713	1.900	1.820	1.706	1.866	1.8010 ± 0.0883	4.90	90.1		
60	Methoxychlor			Wool/viscose	0.500	0.365	0.476	0.487	0.370	0.410	0.4216 ± 0.0574	13.63	84.3
					2.00	1.751	1.974	1.926	1.783	1.750	1.8368 ± 0.1056	5.75	91.8
		Polyester/cotton	0.500	0.462	0.397	0.445	0.480	0.349	0.4265 ± 0.0531	12.45	85.3		
			2.00	2.039	1.768	1.761	1.756	1.876	1.8400 ± 0.1218	6.62	92.0		
		Wool-adjacent fabric	0.500	0.373	0.462	0.428	0.421	0.428	0.4222 ± 0.0320	7.57	84.4		
			2.00	1.942	1.885	1.806	1.873	1.720	1.8452 ± 0.0851	4.61	92.3		
		Cotton-adjacent fabric	0.500	0.416	0.403	0.385	0.433	0.366	0.4005 ± 0.0261	6.52	80.1		

**Table V. (Continued) The Results of Recoveries and Precisions According to Six Kinds of Textiles at Two Fortification Levels: 0.500 and 2.00 mg/kg**

No.	Pesticides	Textile sample	Two fortified contents mg/kg	Measured results mg/kg					X ± S mg/kg	CV (%)	Recoveries (%)		
				1	2	3	4	5					
61	Bifenthrin	Silk-adjacent fabric	2.00	2.011	1.789	1.867	2.038	1.750	1.8910 ± 0.1293	6.84	94.6		
			0.500	0.457	0.357	0.426	0.428	0.487	0.4310 ± 0.0481	11.17	86.2		
		Ramie-adjacent fabric	2.00	1.734	2.028	1.752	1.884	1.915	1.8626 ± 0.1218	6.54	93.1		
			0.500	0.416	0.365	0.457	0.464	0.460	0.4322 ± 0.0423	9.80	86.4		
		Wool/viscose	2.00	1.967	1.936	2.007	1.981	1.773	1.9328 ± 0.0929	4.81	96.6		
			0.500	0.444	0.459	0.398	0.416	0.405	0.4243 ± 0.0262	6.17	84.9		
		Polyester/cotton	2.00	1.742	2.018	1.993	1.972	1.771	1.8992 ± 0.1317	6.93	95.0		
			0.500	0.495	0.347	0.480	0.366	0.468	0.4311 ± 0.0692	16.06	86.2		
		Wool-adjacent fabric	2.00	1.749	1.986	1.794	1.826	2.014	1.8738 ± 0.1188	6.34	93.7		
			0.500	0.480	0.455	0.374	0.456	0.407	0.4342 ± 0.0429	9.88	86.8		
		Cotton-adjacent fabric	2.00	1.893	2.017	1.801	1.753	1.983	1.8894 ± 0.1134	6.00	94.5		
			0.500	0.350	0.348	0.383	0.456	0.349	0.3774 ± 0.0464	12.29	75.5		
		Silk-adjacent fabric	2.00	1.845	1.760	1.814	1.771	2.047	1.8474 ± 0.1167	6.31	92.4		
			0.500	0.488	0.342	0.492	0.360	0.476	0.4316 ± 0.0743	17.22	86.3		
		Ramie-adjacent fabric	2.00	1.828	2.007	1.881	1.813	1.898	1.8854 ± 0.0767	4.07	94.3		
			0.500	0.400	0.422	0.393	0.401	0.473	0.4178 ± 0.0330	7.89	83.6		
		Wool/viscose	2.00	2.015	1.806	1.958	1.753	1.906	1.8876 ± 0.1076	5.70	94.4		
			0.500	0.441	0.359	0.353	0.464	0.355	0.3943 ± 0.0537	13.62	78.9		
		Polyester/cotton	2.00	1.998	1.814	1.874	1.859	1.734	1.8558 ± 0.0964	5.19	92.8		
			0.500	0.356	0.393	0.455	0.384	0.480	0.4137 ± 0.0518	12.53	82.7		
62	Fenpropathion	Wool-adjacent fabric	2.00	1.835	1.921	1.882	2.023	2.003	1.9328 ± 0.0796	4.12	96.6		
			0.500	0.486	0.474	0.398	0.363	0.494	0.4431 ± 0.0586	13.24	88.6		
		Cotton-adjacent fabric	2.00	1.927	2.013	1.806	1.729	1.799	1.8548 ± 0.1135	6.12	92.7		
			0.500	0.424	0.487	0.460	0.385	0.410	0.4332 ± 0.0404	9.33	86.6		
		Silk-adjacent fabric	2.00	1.738	1.838	1.949	1.857	1.996	1.8756 ± 0.1007	5.37	93.8		
			0.500	0.457	0.383	0.452	0.448	0.409	0.4298 ± 0.0325	7.57	86.0		
		Ramie-adjacent fabric	2.00	1.946	2.034	1.810	1.822	1.822	1.8868 ± 0.0993	5.26	94.3		
			0.500	0.436	0.437	0.437	0.403	0.372	0.4171 ± 0.0292	7.01	83.4		
		Wool/viscose	2.00	1.885	1.780	1.736	1.947	1.706	1.8108 ± 0.1020	5.63	90.5		
			0.500	0.395	0.351	0.454	0.435	0.422	0.4113 ± 0.0401	9.75	82.3		
		Polyester/cotton	2.00	1.747	1.912	1.918	1.988	1.730	1.8590 ± 0.1141	6.14	93.0		
			0.500	0.416	0.392	0.453	0.463	0.438	0.4323 ± 0.0287	6.63	86.5		
		63	Azinphos methyl	Wool-adjacent fabric	2.00	1.955	2.015	1.792	1.728	2.049	1.9078 ± 0.1409	7.38	95.4
					0.500	0.382	0.399	0.397	0.349	0.367	0.3788 ± 0.0212	5.60	75.8
				Cotton-adjacent fabric	2.00	2.033	1.714	1.812	1.929	1.979	1.8934 ± 0.1293	6.83	94.7
					0.500	0.411	0.399	0.464	0.394	0.464	0.4264 ± 0.0347	8.13	85.3
				Silk-adjacent fabric	2.00	1.722	1.795	1.974	1.917	1.719	1.8254 ± 0.1156	6.33	91.3
					0.500	0.387	0.469	0.342	0.366	0.425	0.3979 ± 0.0503	12.63	79.6
				Ramie-adjacent fabric	2.00	1.982	1.965	1.838	1.798	1.767	1.8700 ± 0.0980	5.24	93.5
					0.500	0.450	0.410	0.416	0.494	0.356	0.4251 ± 0.0510	12.00	85.0
Wool/viscose	2.00			1.874	1.900	1.996	2.006	1.706	1.8964 ± 0.1211	6.39	94.8		
	0.500			0.354	0.439	0.442	0.358	0.446	0.4076 ± 0.0475	11.66	81.5		
Polyester/cotton	2.00			1.981	1.712	1.977	1.744	1.844	1.8516 ± 0.1261	6.81	92.6		
	0.500			0.443	0.395	0.406	0.483	0.344	0.4142 ± 0.0525	12.68	82.8		
64	Furathiocarb			Wool-adjacent fabric	2.00	1.758	1.758	2.017	1.712	1.862	1.8214 ± 0.1224	6.72	91.1
					0.500	0.487	0.393	0.411	0.492	0.400	0.4366 ± 0.0488	11.18	87.3
				Cotton-adjacent fabric	2.00	1.849	1.964	1.741	1.966	1.907	1.8854 ± 0.0940	4.98	94.3
					0.500	0.407	0.426	0.387	0.472	0.415	0.4214 ± 0.0315	7.48	84.3
				Silk-adjacent fabric	2.00	1.769	1.716	1.856	1.829	2.025	1.8390 ± 0.1173	6.38	92.0
					0.500	0.420	0.449	0.342	0.352	0.490	0.4105 ± 0.0633	15.41	82.1
				Ramie-adjacent fabric	2.00	1.815	1.771	1.764	1.988	1.803	1.8282 ± 0.0918	5.02	91.4
					0.500	0.468	0.425	0.403	0.409	0.342	0.4095 ± 0.0457	11.16	81.9
		Wool/viscose	2.00	2.030	1.962	2.015	1.732	2.016	1.9510 ± 0.1251	6.41	97.6		
			0.500	0.405	0.467	0.447	0.478	0.490	0.4575 ± 0.0331	7.24	91.5		
		Polyester/cotton	2.00	1.972	1.801	2.026	1.874	1.771	1.8888 ± 0.1090	5.77	94.4		

**Table V. (Continued) The Results of Recoveries and Precisions According to Six Kinds of Textiles at Two Fortification Levels: 0.500 and 2.00 mg/kg**

No.	Pesticides	Textile sample	Two fortified contents mg/kg	Measured results mg/kg					X ± S mg/kg	CV (%)	Recoveries (%)
				1	2	3	4	5			
65	Mirex	Polyester/cotton	0.500	0.366	0.472	0.388	0.485	0.486	0.4394 ± 0.0578	13.14	87.9
			2.00	2.020	1.874	1.871	1.822	2.035	1.9244 ± 0.0965	5.01	96.2
		Wool-adjacent fabric	0.500	0.458	0.376	0.451	0.442	0.357	0.4168 ± 0.0469	11.25	83.4
			2.00	1.904	1.937	1.937	1.787	1.786	1.8702 ± 0.0776	4.15	93.5
		Cotton-adjacent fabric	0.500	0.412	0.480	0.347	0.446	0.436	0.4240 ± 0.0494	11.66	84.8
			2.00	1.971	2.032	1.998	1.736	1.940	1.9354 ± 0.1165	6.02	96.8
		Silk-adjacent fabric	0.500	0.463	0.416	0.438	0.450	0.463	0.4460 ± 0.0196	4.40	89.2
			2.00	1.952	1.725	1.920	2.009	1.889	1.8990 ± 0.1069	5.63	95.0
		Ramie-adjacent fabric	0.500	0.402	0.400	0.364	0.380	0.379	0.3848 ± 0.0161	4.17	77.0
			2.00	2.036	1.961	1.808	1.981	1.891	1.9354 ± 0.0881	4.55	96.8
		Wool/viscose	0.500	0.365	0.489	0.493	0.387	0.447	0.4360 ± 0.058	13.32	87.2
			2.00	1.999	1.735	1.748	1.990	1.8331	1.8610 ± 0.1276	6.86	93.1
66	Cyhalothrin(RS)	Polyester/cotton	0.500	0.404	0.365	0.495	0.370	0.438	0.4146 ± 0.0538	12.97	82.9
			2.00	1.745	1.709	1.999	1.998	2.025	1.8952 ± 0.1545	8.15	94.8
		Wool-adjacent fabric	0.500	0.441	0.472	0.371	0.381	0.457	0.4241 ± 0.0456	10.75	84.8
			2.00	1.850	1.983	1.971	1.712	1.808	1.8648 ± 0.1141	6.12	93.2
		Cotton-adjacent fabric	0.500	0.353	0.398	0.453	0.367	0.387	0.3914 ± 0.0385	9.83	78.3
			2.00	1.719	1.978	1.712	1.948	2.000	1.8714 ± 0.1435	7.67	93.6
		Silk-adjacent fabric	0.500	0.447	0.484	0.482	0.361	0.351	0.4250 ± 0.0648	15.26	85.0
			2.00	1.769	1.832	1.857	1.862	1.998	1.8636 ± 0.0838	4.49	93.2
		Ramie-adjacent fabric	0.500	0.453	0.358	0.431	0.487	0.477	0.4409 ± 0.0513	11.62	88.2
			2.00	1.816	2.041	1.817	1.761	1.993	1.8856 ± 0.1232	6.54	94.3
		Wool/viscose	0.500	0.443	0.391	0.470	0.467	0.375	0.4293 ± 0.0436	10.16	85.9
			2.00	1.971	1.828	1.817	1.752	1.924	1.8584 ± 0.0880	4.73	92.9
67	Azinphos-ethyl	Polyester/cotton	0.500	0.404	0.487	0.381	0.369	0.404	0.4092 ± 0.0462	11.30	81.8
			2.00	1.915	1.940	1.895	2.028	1.724	1.9004 ± 0.1109	5.84	95.0
		Wool-adjacent fabric	0.500	0.456	0.480	0.381	0.433	0.380	0.4259 ± 0.0446	10.47	85.2
			2.00	1.892	1.725	1.714	1.802	1.959	1.8184 ± 0.1062	5.84	90.9
		Cotton-adjacent fabric	0.500	0.456	0.423	0.346	0.434	0.364	0.4047 ± 0.0474	11.70	80.9
			2.00	2.035	1.894	1.736	1.902	1.970	1.9074 ± 0.1116	5.85	95.4
		Silk-adjacent fabric	0.500	0.440	0.361	0.450	0.344	0.463	0.4116 ± 0.0548	13.32	82.3
			2.00	2.007	2.024	1.704	1.735	1.853	1.8646 ± 0.1487	7.97	93.2
		Ramie-adjacent fabric	0.500	0.385	0.408	0.471	0.475	0.416	0.4309 ± 0.0399	9.27	86.2
			2.00	1.910	1.985	2.049	1.952	1.710	1.9212 ± 0.1285	6.69	96.1
		Wool/viscose	0.500	0.354	0.352	0.342	0.382	0.488	0.3835 ± 0.0602	15.69	76.7
			2.00	1.937	1.861	1.707	1.896	1.731	1.8264 ± 0.1020	5.59	91.3
68	Acrinathrin	Polyester/cotton	0.500	0.397	0.381	0.382	0.477	0.415	0.4102 ± 0.0398	9.71	82.0
			2.00	1.759	2.049	1.951	1.797	1.923	1.8958 ± 0.1180	6.23	94.8
		Wool-adjacent fabric	0.500	0.489	0.394	0.348	0.441	0.353	0.4050 ± 0.0601	14.85	81.0
			2.00	1.746	1.897	1.980	1.773	1.795	1.8382 ± 0.0977	5.32	91.9
		Cotton-adjacent fabric	0.500	0.433	0.398	0.456	0.491	0.418	0.4391 ± 0.0360	8.19	87.8
			2.00	1.859	1.981	1.730	1.975	2.013	1.9116 ± 0.1171	6.13	95.6
		Silk-adjacent fabric	0.500	0.396	0.341	0.401	0.426	0.373	0.3873 ± 0.0320	8.26	77.5
			2.00	1.980	1.729	1.939	1.918	1.876	1.8884 ± 0.0967	5.12	94.4
		Ramie-adjacent fabric	0.500	0.355	0.462	0.439	0.433	0.407	0.4193 ± 0.0406	9.69	83.9
			2.00	1.937	1.994	2.025	2.010	1.717	1.9366 ± 0.1272	6.57	96.8
		Wool/viscose	0.500	0.427	0.423	0.463	0.346	0.397	0.4114 ± 0.0433	10.53	82.3
			2.00	1.851	1.752	1.963	1.874	1.927	1.8734 ± 0.0808	4.32	93.7
69	Permethrin	Polyester/cotton	0.500	0.358	0.485	0.415	0.431	0.341	0.4058 ± 0.0580	14.28	81.2
			2.00	1.944	1.774	1.899	1.981	2.039	1.9274 ± 0.0999	5.18	96.4
		Wool-adjacent fabric	0.500	0.452	0.379	0.368	0.401	0.473	0.4145 ± 0.0459	11.08	82.9
			2.00	2.009	1.915	2.018	1.848	1.820	1.9220 ± 0.0904	4.71	96.1
		Cotton-adjacent fabric	0.500	0.453	0.397	0.419	0.374	0.418	0.4123 ± 0.0293	7.11	82.5
			2.00	2.016	1.903	1.921	1.718	1.990	1.9096 ± 0.1169	6.12	95.5
		Silk-adjacent fabric	0.500	0.435	0.358	0.407	0.396	0.401	0.3994 ± 0.0278	6.95	79.9

**Table V. (Continued) The Results of Recoveries and Precisions According to Six Kinds of Textiles at Two Fortification Levels: 0.500 and 2.00 mg/kg**

No.	Pesticides	Textile sample	Two fortified contents mg/kg	Measured results mg/kg					X ± S mg/kg	CV (%)	Recoveries (%)		
				1	2	3	4	5					
70	Coumaphos	Ramie-adjacent fabric	2.00	1.968	1.981	1.736	1.949	1.984	1.9236 ± 0.1058	5.50	96.2		
			0.500	0.408	0.380	0.425	0.348	0.440	0.4000 ± 0.0368	9.19	80.0		
		Wool/viscose	2.00	1.987	1.763	1.715	1.757	1.852	1.8148 ± 0.1084	5.97	90.7		
			0.500	0.427	0.443	0.480	0.385	0.365	0.4200 ± 0.0459	10.92	84.0		
		Polyester/cotton	2.00	1.878	1.702	1.742	1.894	1.760	1.7952 ± 0.0857	4.77	89.8		
			0.500	0.425	0.428	0.494	0.478	0.350	0.4350 ± 0.0565	12.99	87.0		
		Wool-adjacent fabric	2.00	2.012	1.836	1.992	1.814	1.772	1.8852 ± 0.1093	5.80	94.3		
			0.500	0.359	0.440	0.483	0.452	0.477	0.4419 ± 0.0497	11.25	88.4		
		Cotton-adjacent fabric	2.00	1.890	1.917	1.963	1.844	1.708	1.8644 ± 0.0975	5.23	93.2		
			0.500	0.410	0.450	0.412	0.345	0.440	0.4113 ± 0.0410	9.96	82.3		
		Silk-adjacent fabric	2.00	2.018	1.729	1.877	1.807	1.847	1.8556 ± 0.1064	5.73	92.8		
			0.500	0.455	0.472	0.435	0.476	0.362	0.4399 ± 0.0462	10.50	88.0		
		Ramie-adjacent fabric	2.00	1.830	1.855	1.904	2.033	1.786	1.8816 ± 0.0948	5.04	94.1		
			0.500	0.424	0.448	0.355	0.414	0.449	0.4179 ± 0.0384	9.20	83.6		
		Wool/viscose	2.00	1.928	1.826	1.930	1.733	1.934	1.8702 ± 0.0891	4.76	93.5		
			0.500	0.370	0.361	0.375	0.402	0.394	0.3804 ± 0.0171	4.51	76.1		
		Polyester/cotton	2.00	1.839	1.764	1.843	1.920	2.016	1.8764 ± 0.0956	5.09	93.8		
			0.500	0.421	0.361	0.418	0.435	0.384	0.4036 ± 0.0304	7.52	80.7		
71	Cyfluthrin	Wool-adjacent fabric	2.00	1.708	1.926	1.900	1.868	1.897	1.8598 ± 0.0873	4.69	93.0		
			0.500	0.354	0.435	0.487	0.433	0.390	0.4198 ± 0.0503	11.99	84.0		
		Cotton-adjacent fabric	2.00	1.965	1.723	1.943	1.877	1.950	1.8916 ± 0.1001	5.29	94.6		
			0.500	0.355	0.374	0.397	0.359	0.397	0.3763 ± 0.0199	5.30	75.3		
		Silk-adjacent fabric	2.00	1.747	2.049	1.806	1.849	1.954	1.8810 ± 0.1206	6.41	94.1		
			0.500	0.450	0.423	0.356	0.454	0.392	0.4150 ± 0.0411	9.90	83.0		
		Ramie-adjacent fabric	2.00	1.770	2.032	1.741	1.959	1.990	1.8984 ± 0.1334	7.03	94.9		
			0.500	0.360	0.488	0.343	0.345	0.450	0.3971 ± 0.0671	16.90	79.4		
		Wool/viscose	2.00	1.974	1.945	1.962	1.914	1.733	1.9056 ± 0.0991	5.20	95.3		
			0.500	0.430	0.385	0.345	0.391	0.430	0.3960 ± 0.0356	8.99	79.2		
		Polyester/cotton	2.00	1.844	2.030	2.000	1.922	1.704	1.9000 ± 0.1313	6.91	95.0		
			0.500	0.406	0.340	0.347	0.436	0.376	0.3810 ± 0.0402	10.55	76.2		
		72	Cypermethin	Wool-adjacent fabric	2.00	1.808	1.834	1.804	2.012	2.045	1.9006 ± 0.1179	6.20	95.0
					0.500	0.389	0.362	0.430	0.389	0.345	0.3830 ± 0.0321	8.39	76.6
				Cotton-adjacent fabric	2.00	1.910	1.737	1.970	1.968	1.786	1.8742 ± 0.1071	5.71	93.7
					0.500	0.387	0.455	0.404	0.458	0.426	0.4260 ± 0.0310	7.27	85.2
				Silk-adjacent fabric	2.00	2.017	2.050	1.701	1.777	1.939	1.8968 ± 0.1520	8.01	94.8
					0.500	0.375	0.379	0.471	0.352	0.394	0.3940 ± 0.0454	11.52	78.8
Ramie-adjacent fabric	2.00			1.748	2.032	1.702	1.739	1.742	1.7926 ± 0.1350	7.53	89.6		
	0.500			0.493	0.371	0.372	0.413	0.439	0.4176 ± 0.0512	12.26	83.5		
Wool/viscose	2.00			1.916	1.723	1.702	1.906	1.772	1.8038 ± 0.1012	5.61	90.2		
	0.500			0.471	0.428	0.354	0.489	0.460	0.4402 ± 0.0532	12.08	88.0		
Polyester/cotton	2.00			1.799	1.739	1.839	1.825	2.023	1.8450 ± 0.1066	5.78	92.3		
	0.500			0.469	0.414	0.410	0.347	0.420	0.4119 ± 0.0433	10.52	82.4		
73	Silafuofen			Wool-adjacent fabric	2.00	1.820	1.965	1.803	2.034	1.952	1.9148 ± 0.0995	5.20	95.7
					0.500	0.374	0.448	0.374	0.456	0.456	0.4214 ± 0.0435	10.33	84.3
				Cotton-adjacent fabric	2.00	1.851	2.010	2.042	1.808	1.996	1.9414 ± 0.1046	5.39	97.1
					0.500	0.450	0.366	0.463	0.404	0.463	0.4293 ± 0.0430	10.01	85.9
				Silk-adjacent fabric	2.00	1.851	1.705	1.858	1.969	1.720	1.8206 ± 0.1093	6.01	91.0
					0.500	0.431	0.466	0.412	0.389	0.419	0.4232 ± 0.0282	6.66	84.6
		Ramie-adjacent fabric	2.00	1.939	1.886	1.909	1.724	1.729	1.8374 ± 0.1030	5.60	91.9		
			0.500	0.348	0.406	0.367	0.407	0.461	0.3975 ± 0.0435	10.95	79.5		
		Wool/viscose	2.00	1.749	1.972	1.834	1.721	1.729	1.8010 ± 0.1056	5.86	90.1		
			0.500	0.420	0.483	0.360	0.431	0.476	0.4341 ± 0.0497	11.45	86.8		
		Polyester/cotton	2.00	1.838	1.963	1.777	1.778	1.964	1.8640 ± 0.0941	5.05	93.2		
			0.500	0.490	0.481	0.343	0.461	0.474	0.4496 ± 0.0604	13.44	89.9		
					2.00	2.005	1.864	1.758	1.818	1.921	1.8732 ± 0.0949	5.07	93.7



**Table V. (Continued) The Results of Recoveries and Precisions According to Six Kinds of Textiles at Two Fortification Levels: 0.500 and 2.00 mg/kg**

No.	Pesticides	Textile sample	Two fortified contents mg/kg	Measured results mg/kg					X ± S mg/kg	CV (%)	Recoveries (%)		
				1	2	3	4	5					
74	Fenvalerate	Wool-adjacent fabric	0.500	0.410	0.352	0.373	0.455	0.411	0.4004 ± 0.0398	9.93	80.1		
			2.00	1.752	1.715	1.815	1.872	1.978	1.8264 ± 0.1038	5.69	91.3		
		Cotton-adjacent fabric	0.500	0.468	0.436	0.369	0.462	0.364	0.4196 ± 0.0503	11.98	83.9		
			2.00	1.785	1.802	1.992	1.916	1.806	1.8602 ± 0.0901	4.84	93.0		
		Silk-adjacent fabric	0.500	0.455	0.463	0.391	0.458	0.431	0.4396 ± 0.0298	6.77	87.9		
			2.00	1.995	1.933	1.836	1.777	1.835	1.8752 ± 0.0873	4.66	93.8		
		Ramie-adjacent fabric	0.500	0.346	0.443	0.473	0.370	0.472	0.4206 ± 0.0594	14.13	84.1		
			2.00	1.942	1.727	1.768	2.043	1.848	1.8656 ± 0.1288	6.90	93.3		
		Wool/viscose	0.500	0.414	0.478	0.479	0.356	0.400	0.4255 ± 0.0529	12.44	85.1		
			2.00	2.011	1.872	1.802	2.048	1.905	1.9276 ± 0.1010	5.24	96.4		
		Polyester/cotton	0.500	0.414	0.483	0.367	0.484	0.413	0.4320 ± 0.0506	11.71	86.4		
			2.00	1.827	1.962	1.837	1.813	1.964	1.8806 ± 0.0757	4.03	94.0		
		75	Esfenvalerate	Wool-adjacent fabric	0.500	0.412	0.418	0.400	0.419	0.446	0.4191 ± 0.0169	4.04	83.8
					2.00	1.752	1.937	1.862	1.707	1.798	1.8112 ± 0.0908	5.01	90.6
Cotton-adjacent fabric	0.500			0.366	0.419	0.346	0.351	0.418	0.3799 ± 0.0359	9.45	76.0		
	2.00			1.938	1.873	1.861	1.749	1.981	1.8804 ± 0.0882	4.69	94.0		
Silk-adjacent fabric	0.500			0.389	0.445	0.492	0.352	0.393	0.4142 ± 0.0549	13.26	82.8		
	2.00			1.757	2.010	1.929	1.914	1.806	1.8832 ± 0.1013	5.38	94.2		
Ramie-adjacent fabric	0.500			0.418	0.453	0.450	0.394	0.426	0.4281 ± 0.0244	5.70	85.6		
	2.00			1.923	1.754	1.890	1.959	1.938	1.8928 ± 0.0816	4.31	94.6		
Wool/viscose	0.500			0.365	0.486	0.415	0.423	0.459	0.4296 ± 0.0459	10.68	85.9		
	2.00			1.916	1.935	1.743	2.020	1.717	1.8662 ± 0.1307	7.00	93.3		
Polyester/cotton	0.500			0.494	0.413	0.469	0.483	0.446	0.4612 ± 0.0322	6.99	92.2		
	2.00			1.723	2.047	1.757	1.862	2.037	1.8852 ± 0.1521	8.07	94.3		
76	Fluvalinate			Wool-adjacent fabric	0.500	0.440	0.419	0.364	0.391	0.441	0.4108 ± 0.0334	8.13	82.2
					2.00	1.819	1.983	1.985	1.813	1.823	1.8846 ± 0.0908	4.82	94.2
		Cotton-adjacent fabric	0.500	0.440	0.398	0.373	0.483	0.472	0.4333 ± 0.0471	10.86	86.7		
			2.00	1.725	1.920	2.027	1.833	1.791	1.8592 ± 0.1175	6.32	93.0		
		Silk-adjacent fabric	0.500	0.370	0.446	0.350	0.403	0.444	0.4024 ± 0.0433	10.76	80.5		
			2.00	1.778	1.948	1.874	1.995	1.702	1.8594 ± 0.1203	6.47	93.0		
		Ramie-adjacent fabric	0.500	0.443	0.412	0.442	0.435	0.463	0.4390 ± 0.0181	4.13	87.8		
			2.00	2.029	1.751	2.010	1.794	1.876	1.8920 ± 0.1249	6.60	94.6		
		Wool/viscose	0.500	0.462	0.363	0.383	0.341	0.369	0.3835 ± 0.0462	12.06	76.7		
			2.00	2.000	1.702	1.850	1.757	1.925	1.8468 ± 0.1211	6.56	92.3		
		Polyester/cotton	0.500	0.439	0.427	0.354	0.467	0.358	0.4088 ± 0.0506	12.38	81.8		
			2.00	1.950	1.974	1.738	1.898	1.931	1.8982 ± 0.0938	4.94	94.9		
		77	Deltamethrin	Wool-adjacent fabric	0.500	0.478	0.368	0.413	0.392	0.393	0.4089 ± 0.0417	10.19	81.8
					2.00	1.837	1.776	2.037	2.048	1.733	1.8862 ± 0.1474	7.82	94.3
Cotton-adjacent fabric	0.500			0.460	0.419	0.382	0.435	0.463	0.4317 ± 0.0334	7.73	86.3		
	2.00			1.775	2.009	1.778	1.889	1.851	1.8604 ± 0.0963	5.17	93.0		
Silk-adjacent fabric	0.500			0.378	0.473	0.393	0.430	0.401	0.4147 ± 0.0374	9.02	82.9		
	2.00			1.767	1.942	1.987	1.801	1.757	1.8508 ± 0.1063	5.74	92.5		
Ramie-adjacent fabric	0.500			0.425	0.358	0.408	0.428	0.426	0.4090 ± 0.0299	7.31	81.8		
	2.00			1.748	1.905	1.701	1.797	2.046	1.8394 ± 0.1381	7.51	92.0		
Wool/viscose	0.500			0.477	0.422	0.406	0.421	0.370	0.4192 ± 0.0388	9.25	83.8		
	2.00			1.881	1.798	2.021	1.706	1.845	1.8502 ± 0.1158	6.26	92.5		
Polyester/cotton	0.500			0.494	0.352	0.486	0.452	0.370	0.4310 ± 0.0659	15.29	86.2		
	2.00			2.020	1.874	1.781	1.866	1.861	1.8804 ± 0.0866	4.61	94.0		