



EU PROFICIENCY TEST

EUPT-SRM12, 2017

Residues of Pesticides Requiring Single Residue Methods Test Item: Strawberry Purée

Preliminary Report

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General Remark

Please note that all assigned values, CV*s and z-scores presented in the following are preliminary.

The final report on the EUPT-SRM12 will be drafted following the joint EURL/NRL-Workshop and the evaluation of the results by the EUPT-Scientific Committee.

Background

The proficiency test EUPT-SRM12 was conducted using organic strawberry purée purchased from a food processing company for spiking. The test item was prepared by spiking the strawberry purée with 17 compounds dissolved in standard solutions.

Spiking was done with the following compounds: 2,4-D, bifenazate diazene, potassium bromide, captan, tetrahydrophthalimide (THPI), carbosulfan, sodium chlorate, chlorothalonil, dithianon, fenbutatin oxide, folpet, phthalimide, glyphosate, N-acetyl-glyphosate, haloxyfop, phosphonic acid and thiram.

8 of the compounds present in the Test Item (2,4-D, captan (parent), chlorothalonil, dithiocarbamates, fenbutatin oxide, folpet (parent), glyphosate and haloxyfop) were classified as “compulsory” and will be considered in the scope-based lab classification into Categories A and B. Among the “optional compounds” the test item contained 7 (bifenazate (sum), bromide ion, carbofuran (part of sum), chlorate, dithianon, phosphonic acid and N-acetyl-glyphosate) which will not be considered in the scope-based lab classification, but will still be evaluated as far as the quantitative and qualitative results are concerned (z-scores, false positives, false negatives). The Target pesticides List entailed 4 “additional compounds for collection of data only” (captan (sum), folpet (sum), THPI and phthalimide). Their assigned values and corresponding z-scores are calculated for informative purpose only. For the estimation of the assigned values only the results of the 129 OfLs¹ from EU member states and EFTA countries were considered.

Following spiking, homogenisation, portioning, freezing and cryo-milling, portions of approx. 400 g of the test item and blank were bottled and distributed on 13 March, 2017 to the participating laboratories. Where according to the IATA dangerous good regulations the shipment with dry ice was allowed, the materials were sent to the participants deeply frozen in insulated boxes containing dry ice. Otherwise, the materials have been precooled at -70°C for at least 3 days and sent to the participants deeply frozen in insulated boxes containing gel packs or cool elements.

Using an online submission tool the participants had the possibility to submit their results by 22 April, 2017, as well as the requested information about the analytical methods employed by 05 May, 2017.

10 bottles of the test item were selected randomly and tested for homogeneity. Furthermore, the stability of the test material was checked during a period covering the EUPT duration.

Results

In total 129 participating labs from EU and EFTA countries, two OfLs from an EU candidate country and seven laboratories from third countries submitted results of at least one compound.

Three results, each one of abamectin, propamocarb and cyromazine, were preliminarily judged as false positives. One result on propamocarb and the other one on abamectine were reported at levels lower than the MRRLs and were, therefore, preliminarily not judged as false positive results.

25 labs reported in 36 cases potentially false negative results („analyzed, but not detected“) for compounds present in the test item. Their z-scores in this preliminary report were calculated using the corresponding MRRL in the target pesticide list or the RL, if this was lower. The false negative results concerned 2,4-D, bromide ion, dithianon, glyphosate, N-acetyl-glyphosate and Phthalimide (each 1x), captan (parent), chlorothalonil, folpet (parent) and haloxyfop (each 2x), fenbutatin

¹ These are labs performing official food controls on pesticides as well as official import controls (“669-Labs”) or official organic food controls (“889-Labs”)

oxide (4x), and carbofuran (part of sum) (18x). In the case of captan (parent), the RL of one laboratory was higher than the assigned value (0.085 mg/kg). In the case of carbofuran, 15 of those 18 laboratories reported RLs higher than the assigned value of 0.003 mg/kg. Based on the rules of the general protocol these results are also considered as FNs.

Please note that the final judgement on false positive and false negative results will be done in the final report following consultation with the EUPT-Scientific Committee.

All submitted results on pesticides incurred and spiked to the test material are shown in Table 1 for the “compulsory compounds”, Table 2 for the “additional compounds for data collection” and Table 3 for the “optional compounds”. A preliminary list of false positive results is shown in Table 4. Since the robust standard deviation of carbofuran was very high, the z-scores calculated for this analyte are at the moment considered uncertain and are displayed in italic type. A re-evaluation following differentiation between methods may follow.

Results preliminarily judged as false negatives are marked in the tables with the abbreviation FN. Empty cells in the tables correspond to “not analysed” compounds.

The table also contains the results of the participating laboratories from 3rd countries and EU candidate countries. In these cases the z-scores were calculated using the assigned values derived from the results of the EU and EFTA labs.

- All labs are kindly asked to check their results carefully and to report any errors.
- Please note that only transcription errors by the Organizers can be considered at this stage.
- Labs with individual absolute z-scores > 2 or false negative or false positive results are kindly asked to give a feedback about any actions undertaken to find out the reasons for their questionable or poor performance via e-mail by 16 June, 2017.

Table 1: Results for compulsory compounds in EUPT-SRM12 reported (z-scores were calculated using preliminary assigned values)

Pesticide	2,4-D		Captan (Parent)		Chlorothalonil		Dithiocarbamates		Fenbutatin Oxide		Folpet (Parent)		Glyphosate		Haloxylfop	
MRRL [mg/kg]	0.01		0.01		0.01		0.03		0.01		0.01		0.03		0.01	
AV [mg/kg]	0.079		0.085		0.125		0.267		0.086		0.334		0.306		0.070	
CV* [mg/kg]	13.3%		28.1%		25.2%		22.2%		21.0%		25.0%		20.9%		13.9%	
No. Numerical Results [‡] / No. FN [‡]	102 / 1		96 / 2		118 / 2		114 / 0		83 / 4		101 / 2		91 / 1		99 / 2	
Test No.	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score
1	0.068	-0.5	0.055	-1.4	0.086	-1.3	0.330	0.9	0.076	-0.4	0.190	-1.7	0.629	4.2	0.056	-0.8
2	0.0692	-0.5	0.0881	0.1	0.120	-0.2	0.234	-0.5	FN	-3.5	0.349	0.2	0.317	0.1	0.058	-0.7
3	0.082	0.2	0.066	-0.9	0.129	0.1	0.196	-1.1	0.111	1.2	0.292	-0.5	0.320	0.2	0.070	0.0
4	0.0742	-0.2	0.0723	-0.6	0.0956	-0.9	0.330	0.9	0.0576	-1.3	0.295	-0.5			0.0641	-0.3
5							0.244	-0.3								
6	0.080	0.1	0.115	1.4	0.122	-0.1	0.239	-0.4	0.089	0.2	0.317	-0.2	FN	-3.6	0.080	0.6
7	0.073	-0.3	0.079	-0.3	0.137	0.4	0.279	0.2	0.083	-0.1	0.286	-0.6	0.355	0.6	0.070	0.0
8	0.089	0.5					0.225	-0.6					0.394	1.1	0.082	0.7
9	0.0581	-1.0	0.011	-3.5	0.315	6.1	0.341	1.1	0.0624	-1.1	0.172	-1.9	0.779	6.2	0.0688	-0.1
10	0.067	-0.6			0.290	5.3	0.382	1.7					0.312	0.1	0.066	-0.2
11	0.043	-1.8			0.494	11.8									0.041	-1.7
12	0.075	-0.2	0.077	-0.4	0.151	0.8	0.193	-1.1	0.110	1.1	0.420	1.0	0.300	-0.1	0.070	0.0
13	0.064	-0.7	0.131	2.2	0.089	-1.2	0.286	0.3	0.081	-0.2	0.292	-0.5	0.290	-0.2	0.064	-0.4
14	0.063	-0.8	0.080	-0.2	0.115	-0.3	0.228	-0.6	0.080	-0.3	0.355	0.2	0.311	0.1	0.069	-0.1
15	0.075	-0.2	0.081	-0.2	0.146	0.7	0.280	0.2			0.290	-0.5			0.060	-0.6
16	0.056	-1.2			0.147	0.7	0.210	-0.9	0.091	0.3			0.240	-0.9	0.064	-0.4
17	0.0807	0.1	0.0872	0.1	0.118	-0.2	0.303	0.5	0.089	0.2	0.298	-0.4	0.331	0.3	0.0763	0.3
18	0.074	-0.2	0.098	0.6	0.164	1.2	0.270	0.0	0.104	0.9	0.382	0.6	0.299	-0.1	0.064	-0.4
19	0.088	0.5	0.090	0.2	0.099	-0.8	0.246	-0.3	0.080	-0.3	0.413	0.9	0.291	-0.2	0.068	-0.1
20	0.0746	-0.2	0.0858	0.0	0.148	0.7	0.300	0.5	0.0793	-0.3	0.401	0.8	0.299	-0.1	0.0706	0.0
21	0.080	0.1	0.084	0.0	0.141	0.5	0.211	-0.8	0.087	0.1	0.349	0.2	0.279	-0.4	0.073	0.2
22	0.090	0.6	0.090	0.2	0.134	0.3	0.337	1.0	0.091	0.3	0.386	0.6	0.360	0.7	0.054	-0.9
23			0.025	-2.8	0.030	-3.0					0.040	-3.5	0.180	-1.6	0.040	-1.7
24	0.083	0.2	0.062	-1.1	0.119	-0.2	0.313	0.7	0.068	-0.8	0.333	0.0			0.065	-0.3
25	0.080	0.1	0.086	0.0	0.123	-0.1	0.216	-0.8	0.077	-0.4	0.449	1.4	0.370	0.8	0.072	0.1
26	0.079	0.0	0.075	-0.5	0.130	0.2	0.180	-1.3	0.092	0.3	0.950	7.4	0.250	-0.7	0.072	0.1
27	0.0772	-0.1			FN	-3.7					0.0759	-3.1				
28	0.071	-0.4			0.107	-0.6	0.305	0.6	0.120	1.6			0.259	-0.6	0.061	-0.5
29	0.0785	0.0	0.062	-1.1	0.106	-0.6			0.0875	0.1	0.163	-2.1			0.0678	-0.1
30	0.076	-0.1	0.103	0.8	0.121	-0.1	0.167	-1.5	0.134	2.3	0.453	1.4	0.299	-0.1	0.074	0.2
31			0.0904	0.3	0.0987	-0.8	0.289	0.3			0.321	-0.2				
32	0.081	0.1	0.094	0.4	0.101	-0.8	0.296	0.4			0.373	0.5	0.297	-0.1	0.072	0.1
33	0.080	0.1	0.082	-0.1	0.132	0.2	0.348	1.2	0.097	0.5	0.340	0.1	0.289	-0.2	0.076	0.3
34	0.077	-0.1			0.125	0.0	0.318	0.8	0.085	0.0			0.314	0.1	0.058	-0.7
35	0.0846	0.3	0.104	0.9	0.143	0.6	0.819	8.3	FN	-3.5	0.559	2.7	0.268	-0.5	0.0726	0.1
36																
37			0.083	-0.1	0.120	-0.2	0.260	-0.1			0.320	-0.2				
38	0.072	-0.3	0.063	-1.0	0.110	-0.5	0.200	-1.0			0.320	-0.2	0.130	-2.3		

Table 1: Results for compulsory compounds in EUPT-SRM12 reported (z-scores were calculated using preliminary assigned values)

Pesticide	2,4-D		Captan (Parent)		Chlorothalonil		Dithiocarbamates		Fenbutatin Oxide		Folpet (Parent)		Glyphosate		Haloxylfop	
MRRL [mg/kg]	0.01		0.01		0.01		0.03		0.01		0.01		0.03		0.01	
AV [mg/kg]	0.079		0.085		0.125		0.267		0.086		0.334		0.306		0.070	
CV* [mg/kg]	13.3%		28.1%		25.2%		22.2%		21.0%		25.0%		20.9%		13.9%	
No. Numerical Results [‡] / No. FN [‡]	102 / 1		96 / 2		118 / 2		114 / 0		83 / 4		101 / 2		91 / 1		99 / 2	
Test No.	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score
39	0.086	0.4	0.090	0.2	0.142	0.5	0.310	0.6	0.083	-0.1	0.360	0.3	0.282	-0.3	0.060	-0.6
40					0.161	1.1	0.250	-0.3	0.0845	-0.1	0.619	3.4	0.199	-1.4		
41	0.081	0.1	0.050	-1.6	0.105	-0.6	0.140	-1.9	0.082	-0.2	0.230	-1.2	0.320	0.2	0.072	0.1
42	0.077	-0.1	0.080	-0.2	0.105	-0.6	0.143	-1.9	0.080	-0.3	0.260	-0.9	0.275	-0.4	0.076	0.3
43						0.203		-1.0					0.246		-0.8	
44	FN	-3.5	0.085	0.0	0.067	-1.9	0.323	0.8			0.305	-0.4			FN	-3.4
45	0.0691	-0.5	0.107	1.0	0.171	1.5	0.236	-0.5	0.0788	-0.3	0.462	1.5	0.301	-0.1	0.0857	0.9
46	0.085	0.3	0.0748	-0.5	0.130	0.2	0.203	-1.0	0.0738	-0.6	0.326	-0.1	0.235	-0.9	0.064	-0.4
47	0.076	-0.1	0.063	-1.0	0.170	1.4	0.306	0.6	0.114	1.3	0.260	-0.9	0.323	0.2	0.063	-0.4
48	0.084	0.3	0.0745	-0.5	0.131	0.2	0.284	0.3			0.329	-0.1	0.239	-0.9	0.067	-0.2
49	0.0812	0.1	0.0436	-1.9	0.0952	-1.0	0.259	-0.1	0.0796	-0.3	0.225	-1.3	0.396	1.2	0.0749	0.3
50	0.085	0.3	0.080	-0.2	0.192	2.1	0.314	0.7	0.087	0.1	0.379	0.5			0.070	0.0
51	0.0725	-0.3			0.230	3.3			0.104	0.9					0.0655	-0.3
52	0.069	-0.5	0.137	2.5	0.132	0.2	0.500	3.5	0.036	-2.3	0.862	6.3	0.388	1.1	0.075	0.3
53	0.073	-0.3	0.072	-0.6	0.119	-0.2	0.298	0.5	0.111	1.2	0.326	-0.1	0.280	-0.3	0.074	0.2
54					0.069	-1.8					0.269	-0.8			0.084	0.8
55							0.227	-0.6								
56			0.055	-1.4	0.105	-0.6	0.250	-0.3			0.304	-0.4				
57	0.069	-0.5	0.073	-0.6	0.094	-1.0	0.270	0.0	0.103	0.8	0.270	-0.8	1.300	13.0	0.071	0.0
58	0.0617	-0.9	0.106	1.0	0.144	0.6	0.271	0.1	0.0695	-0.8	0.271	-0.8	0.255	-0.7	0.078	0.4
59							0.256	-0.2								
60							0.278	0.2					0.313	0.1		
61	0.075	-0.2	0.0815	-0.2							0.385	0.6			0.070	0.0
62	0.071	-0.4	0.062	-1.1	0.087	-1.2	0.208	-0.9			0.377	0.5	0.256	-0.7	FN	-4.0
63	0.082	0.2	0.050	-1.6	0.171	1.5	0.219	-0.7	0.231	6.8	0.085	-3.0			0.067	-0.2
64	0.082	0.2			0.151	0.8	0.255	-0.2			0.350	0.2	0.418	1.5	0.067	-0.2
65							0.259	-0.1								
66	0.0765	-0.1	0.0842	0.0	0.154	0.9	0.268	0.0	0.0785	-0.3	0.440	1.3	0.281	-0.3	0.0649	-0.3
67	0.102	1.2	0.096	0.5	0.106	-0.6	0.287	0.3	0.068	-0.8	0.286	-0.6	0.485	2.3	0.0743	0.2
68	0.080	0.1					0.280	0.2					0.055	-3.3	0.072	0.1
69	0.089	0.5	0.0843	0.0	0.0995	-0.8	0.308	0.6			0.362	0.3			0.073	0.2
70	0.056	-1.2	0.020	-3.1	0.120	-0.2	0.270	0.0	0.065	-1.0	0.330	-0.1	0.283	-0.3	0.066	-0.2
71	0.791	36.2			0.0995	-0.8	0.247	-0.3	0.0679	-0.8			0.326	0.3	0.748	38.6
72	0.094	0.8	0.137	2.5	0.175	1.6	0.265	0.0	0.108	1.0	0.434	1.2	0.325	0.2	0.073	0.2
73			0.131	2.2	0.126	0.0	0.342	1.1			0.365	0.4	0.359	0.7		
74	0.0836	0.2	0.0741	-0.5	0.133	0.2	0.372	1.6	0.105	0.9	0.344	0.1	0.228	-1.0	0.0772	0.4
75	0.128	2.5	0.122	1.7	0.172	1.5	0.476	3.1	0.288	9.5	0.371	0.4	0.288	-0.2	0.121	2.9
76	0.084	0.3	0.100	0.7	0.133	0.2	0.376	1.6	0.072	-0.6	0.360	0.3	0.268	-0.5	0.070	0.0

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CV* [mg/kg]	13.3%		28.1%		25.2%		22.2%		21.0%		25.0%		20.9%		13.9%	
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Test No.	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score
77			0.080	-0.2	0.105	-0.6	0.191	-1.1	0.076	-0.4	0.296	-0.5				
78	0.073	-0.3	0.092	0.3	0.122	-0.1	0.211	-0.8	0.107	1.0	0.377	0.5	0.510	2.7	0.070	0.0
79	0.070	-0.4			0.089	-1.2	0.092	-2.6	0.074	-0.5			0.270	-0.5	0.060	-0.6
80					0.050	-2.4										
81	0.0769	-0.1			0.125	0.0	0.251	-0.2	0.0695	-0.8			0.266	-0.5	0.0665	-0.2
82							0.210	-0.9								
83	0.980	45.8	0.080	-0.2	0.010	-3.7			0.020	-3.1	0.440	1.3	0.170	-1.8	0.810	42.2
84	0.075	-0.2	0.080	-0.2	0.150	0.8	0.290	0.3	0.100	0.7	0.320	-0.2	0.280	-0.3	0.070	0.0
85					0.212	2.8										
86	0.083	0.2	0.193	5.1	0.096	-0.9	0.420	2.3			0.231	-1.2	0.456	2.0	0.066	-0.2
87							0.231	-0.5								
88	0.075	-0.2	0.088	0.1	0.122	-0.1	0.255	-0.2	0.080	-0.3	0.301	-0.4	0.312	0.1	0.056	-0.8
89	0.102	1.2			0.148	0.7			0.076	-0.4			0.322	0.2		
90	0.086	0.4	0.090	0.2	0.127	0.1	0.566	4.5	0.095	0.4	0.253	-1.0	0.271	-0.5	0.080	0.6
91	0.120	2.1	0.088	0.1	0.140	0.5	0.280	0.2	0.079	-0.3	0.360	0.3			0.054	-0.9
92	0.0905	0.6	0.0852	0.0	0.106	-0.6	0.281	0.2	0.0842	-0.1	0.355	0.2	0.346	0.5	0.0803	0.6
93	0.0722	-0.3	0.0471	-1.8	0.111	-0.5			0.085	0.0	0.287	-0.6			0.0545	-0.9
94	0.076	-0.1	0.078	-0.3	0.135	0.3	0.295	0.4	0.079	-0.3	0.346	0.1	0.364	0.8	0.072	0.1
95	0.078	0.0	0.149	3.0	0.116	-0.3	0.212	-0.8	0.073	-0.6	0.751	5.0	0.350	0.6	0.076	0.3
96	0.071	-0.4	0.099	0.7	0.103	-0.7	0.307	0.6	0.080	-0.3	0.117	-2.6	0.284	-0.3	0.064	-0.4
97	0.087	0.4	0.086	0.0	0.173	1.5	0.348	1.2	0.104	0.9	0.424	1.1	0.775	6.1	0.087	1.0
98	0.069	-0.5	0.0213	-3.0	0.0353	-2.9	0.247	-0.3	0.0561	-1.4	0.141	-2.3	0.301	-0.1	0.0515	-1.1
99	0.079	0.0	0.188	4.9	0.116	-0.3	0.282	0.2	FN	-3.5	0.375	0.5	0.200	-1.4	0.077	0.4
100							0.330	0.9								
101					0.080	-1.4										
102	0.064	-0.7	0.089	0.2	0.310	5.9	0.240	-0.4	0.059	-1.2	FN	-3.9	0.290	-0.2	0.032	-2.2
103	0.0782	0.0	0.105	0.9	0.138	0.4	0.263	-0.1	0.0951	0.4	0.440	1.3	0.295	-0.1	0.0727	0.1
104	0.0907	0.6	0.0818	-0.1	0.102	-0.7	0.296	0.4	0.0765	-0.4	0.328	-0.1	0.341	0.5	0.0753	0.3
105					0.120	1.7	0.160	1.1	0.260	-0.1			0.450	1.4		
106	0.100	1.1	FN	-3.5	FN	-3.7	0.181	-1.3	FN	-3.5	FN	-3.9	0.350	0.6	0.120	2.8
107	0.112	1.7	0.063	-1.0	0.161	1.1	0.147	-1.8	0.107	1.0	0.307	-0.3	0.212	-1.2	0.0856	0.9
108	0.087	0.4	0.450	17.2	0.114	-0.4	0.270	0.0			0.350	0.2	0.193	-1.5	0.047	-1.3
109	0.075	-0.2	0.076	-0.4	0.145	0.6	0.302	0.5	0.086	0.0	0.351	0.2	0.260	-0.6	0.070	0.0
110			0.313	10.7	0.167	1.3					1.230	10.7				
111							0.240	-0.4								
112					0.042	-2.0	0.037	-2.8					0.132	-2.4		
113	0.085	0.3	0.063	-1.0	0.094	-1.0	0.340	1.1	0.087	0.1	0.285	-0.6	0.300	-0.1	0.076	0.3
114							0.290	0.3								

Table 1: Results for compulsory compounds in EUPT-SRM12 reported (z-scores were calculated using preliminary assigned values)

Pesticide	2,4-D		Captan (Parent)		Chlorothalonil		Dithiocarbamates		Fenbutatin Oxide		Folpet (Parent)		Glyphosate		Haloxylfop	
MRRL [mg/kg]	0.01		0.01		0.01		0.03		0.01		0.01		0.03		0.01	
AV [mg/kg]	0.079		0.085		0.125		0.267		0.086		0.334		0.306		0.070	
CV* [mg/kg]	13.3%		28.1%		25.2%		22.2%		21.0%		25.0%		20.9%		13.9%	
No. Numerical Results [‡] / No. FN [‡]	102 / 1		96 / 2		118 / 2		114 / 0		83 / 4		101 / 2		91 / 1		99 / 2	
Test No.	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score
115	0.059	-1.0	0.090	0.2	0.135	0.3	0.280	0.2	0.075	-0.5	0.347	0.2	0.270	-0.5	0.071	0.0
116	0.0833	0.2	0.0792	-0.3	0.131	0.2	0.253	-0.2	0.107	1.0	0.246	-1.1	0.351	0.6	0.0752	0.3
117	0.0918	0.7	0.126	1.9	0.102	-0.7					0.258	-0.9			0.0949	1.4
118					0.086	-1.3	0.150	-1.8			0.292	-0.5			0.134	3.6
119							0.269	0.0								
120			FN* (RL=0.2)	-3.5	0.111	-0.5					0.330	-0.1				
121					0.121	-0.1										
122							0.274	0.1					0.345	0.5		
123									0.080	-0.3						
124	0.0766	-0.1	0.095	0.5	0.131	0.2	0.221	-0.7			0.323	-0.1			0.0728	0.1
125	0.094	0.8	0.137	2.5	0.137	0.4			0.102	0.8	0.526	2.3	0.442	1.8	0.082	0.7
126	0.059	-1.0	0.072	-0.6	0.131	0.2			0.036	-2.3	0.295	-0.5	0.291	-0.2	0.047	-1.3
127	0.073	-0.3	0.104	0.9	0.154	0.9	0.336	1.0	0.078	-0.4	0.375	0.5	0.371	0.8	0.068	-0.1
128	0.0658	-0.7														
129	0.086	0.4	0.069	-0.8	0.101	-0.8	0.142	-1.9	0.072	-0.6	0.259	-0.9			0.067	-0.2
130	0.101	1.1	0.089	0.2	0.105	-0.6	0.181	-1.3	0.123	1.7	0.389	0.7	0.371	0.8	0.087	1.0
3rd-131	0.085	0.3			0.135	0.3	0.235	-0.5					0.204	-1.3		
3rd-132	0.083	0.2	0.089	0.2	0.070	-1.8	0.290	0.3			0.394	0.7	0.098	-2.7	0.032	-2.2
3rd-133	0.0797	0.1	0.0844	0.0	0.133	0.2			0.0893	0.2	0.355	0.2	0.299	-0.1	0.0733	0.2
3rd-134					0.110	-0.5	0.270	0.0	0.090	0.2						
3rd-135					0.090	-1.1	1.960	25.4								
3rd-136	0.077	-0.1	0.111	1.2	0.0422	-2.7	0.232	-0.5	0.0899	0.2	0.665	4.0	0.315	0.1	0.0658	-0.3
3rd-137	0.087	0.4			0.285	5.1							0.179	-1.7		
3rd-138			0.265	8.5	0.095	-1.0	0.304	0.6	0.110	1.1	0.745	4.9				
3rd-139	0.208	6.6	0.0775	-0.4	0.118	-0.2	0.473	3.1	0.249	7.6	0.0953	-2.9	0.317	0.1	0.016	-3.1

* including results from an EU candidate country and 3rd countries

* Despite lab's reporting RL > AV this result is considered as FNs based on the rules in the general protocol.

Table 2: Results for additional compounds for data collection in EUPT-SRM12 reported (z-scores were calculated using preliminary assigned values and for informative purpose only.)

Pesticide	Captan (Sum)	Folpet (Sum)	THPI	Pthalimide				
MRRL	–	–	–	–				
AV	0.302	1.195	0.110	0.446				
CV*	25.2%	21.1%	30.5%	21.6%				
No. Numerical Results [‡] / No. FN [‡]	65 / 0	66 / 0	68 / 0	67 / 1				
Test No.	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score
1	0.252	-0.7	0.961	-0.8	0.099	-0.4	0.382	-0.6
2	0.277	-0.3	1.120	-0.3	0.0946	-0.6	0.382	-0.6
3								
4	0.246	-0.7	1.210	0.1	0.0874	-0.8	0.454	0.1
5								
6								
7	0.243	-0.8	0.973	-0.7	0.083	-1.0	0.341	-0.9
8								
9	0.137	-2.2			0.0636	-1.7		
10								
11								
12								
13			1.930	2.5			0.813	3.3
14	0.328	0.3	1.240	0.2	0.125	0.5	0.441	0.0
15								
16								
17	0.251	-0.7	1.190	0.0	0.0823	-1.0	0.441	0.0
18	0.313	0.2	1.255	0.2	0.108	-0.1	0.433	-0.1
19	0.351	0.7	1.540	1.2	0.131	0.7	0.558	1.0
20	0.324	0.3	1.196	0.0	0.119	0.3	0.397	-0.4
21	0.313	0.2	1.300	0.4	0.115	0.2	0.470	0.2
22	0.390	1.2	1.370	0.6	0.153	1.5	0.488	0.4
23								
24								
25	0.478	2.3	1.736	1.8	0.196	3.1	0.637	1.7
26	0.200	-1.3	2.000	2.7	0.062	-1.8	0.550	0.9
27			0.0759	-3.7	0.0738	-1.3		
28								
29	0.315	0.2	1.160	-0.1	0.127	0.6	0.497	0.5
30								
31							0.516	0.6
32								
33	0.267	-0.5	1.120	-0.3	0.093	-0.6	0.386	-0.5
34					0.283	6.3	0.602	1.4
35	0.341	0.5	1.440	0.8	0.119	0.3	0.437	-0.1
36								
37								
38								

Table 2: Results for additional compounds for data collection in EUPT-SRM12 reported (z-scores were calculated using preliminary assigned values and for informative purpose only.)

Pesticide	Captan (Sum)	Folpet (Sum)	THPI	Pthalimide				
MRRL	–	–	–	–				
AV	0.302	1.195	0.110	0.446				
CV*	25.2%	21.1%	30.5%	21.6%				
No. Numerical Results[‡] / No. FN[‡]	65 / 0	66 / 0	68 / 0	67 / 1				
Test No.	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score
39	0.404	1.4	2.580	4.6	0.158	1.7	1.500	9.5
40								
41	0.316	0.2	0.754	-1.5	0.134	0.9	0.260	-1.7
42	0.336	0.5	1.074	-0.4	0.129	0.7	0.403	-0.4
43								
44								
45								
46	0.282	-0.3	1.114	-0.3	0.104	-0.2	0.390	-0.5
47	0.405	1.4	0.260	-3.1	0.172	2.2	FN	-4.0
48	0.254	-0.6	1.347	0.5	0.0901	-0.7	0.505	0.5
49	0.155	-1.9	0.805	-1.3	0.0561	-2.0	0.288	-1.4
50	0.263	-0.5	1.236	0.1	0.092	-0.7	0.425	-0.2
51					0.128	0.6	0.455	0.1
52	0.338	0.5	1.740	1.8	0.101	-0.3	0.436	-0.1
53	0.209	-1.2	1.131	-0.2	0.069	-1.5	0.399	-0.4
54								
55								
56								
57	0.185	-1.5	1.100	-0.3	0.093	-0.6	0.414	-0.3
58	0.565	3.5	2.110	3.1	0.231	4.4	0.911	4.2
59								
60								
61	0.310	0.1	1.330	0.5	0.115	0.2	0.470	0.2
62								
63								
64	0.290	-0.2	1.181	0.0	0.113	0.1	0.416	-0.3
65								
66	0.209	-1.2	0.579	-2.1	0.0628	-1.7	0.444	0.0
67								
68								
69								
70	0.148	-2.0	0.960	-0.8	0.064	-1.7	0.310	-1.2
71	0.158	-1.9	0.828	-1.2	0.0794	-1.1	0.412	-0.3
72	0.294	-0.1	1.188	0.0	0.079	-1.1	0.374	-0.6
73	0.340	0.5	1.150	-0.2	0.105	-0.2	0.389	-0.5
74	0.284	-0.2	1.130	-0.2	0.143	1.2	0.561	1.0
75								
76	0.299	0.0	1.247	0.2	0.100	-0.4	0.440	-0.1

Table 2: Results for additional compounds for data collection in EUPT-SRM12 reported (z-scores were calculated using preliminary assigned values and for informative purpose only.)

Pesticide	Captan (Sum)	Folpet (Sum)	THPI	Phtalimide				
MRRL	–	–	–	–				
AV	0.302	1.195	0.110	0.446				
CV*	25.2%	21.1%	30.5%	21.6%				
No. Numerical Results [‡] / No. FN [‡]	65 / 0	66 / 0	68 / 0	67 / 1				
Test No.	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score
77								
78	0.289	-0.2	1.208	0.0	0.099	-0.4	0.412	-0.3
79	0.273	-0.4	1,190	0.0				
80								
81	0.306	0.1	1.090	-0.4	0.107	-0.1	0.518	0.6
82								
83								
84	0.289	-0.2	1.146	-0.2	0.105	-0.2	0.410	-0.3
85								
86	0.426	1.6	0.697	-1.7	0.117	0.2	0.231	-1.9
87								
88	0.279	-0.3	1.270	0.3	0.096	-0.5	0.482	0.3
89								
90	0.283	-0.2	0.963	-0.8	0.097	-0.5	0.352	-0.8
91								
92	0.383	1.1	1.070	-0.4	0.150	1.4	0.349	-0.9
93								
94	0.291	-0.1	1.270	0.3	0.107	-0.1	0.457	0.1
95	0.421	1.6	1.610	1.4	0.137	1.0	0.425	-0.2
96								
97	0.287	-0.2	1.242	0.2	0.101	-0.3	0.406	-0.4
98	0.256	-0.6	1.440	0.8	0.117	0.2	0.645	1.8
99	0.411	1.4	1.310	0.4	0.112	0.1	0.465	0.2
100								
101								
102	0.420	1.6	1.070	-0.4	0.170	2.2	0.440	-0.1
103	0.331	0.4	1.110	-0.3	0.123	0.5	0.506	0.5
104	0.342	0.5	1.260	0.2	0.131	0.7	0.468	0.2
105	0.330	0.4	1.110	-0.3	0.110	0.0	0.330	-1.0
106	0.300	0.0	1.000	-0.7	0.300	6.9	1.000	5.0
107								
108								
109	0.301	0.0	1.260	0.2	0.113	0.1	0.451	0.0
110								
111								
112								
113	0.288	-0.2	1.210	0.1	0.110	0.0	0.460	0.1
114								

Table 2: Results for additional compounds for data collection in EUPT-SRM12 reported (z-scores were calculated using preliminary assigned values and for informative purpose only.)

Pesticide	Captan (Sum)	Folpet (Sum)	THPI	Pthalimide				
MRRL	–	–	–	–				
AV	0.302	1.195	0.110	0.446				
CV*	25.2%	21.1%	30.5%	21.6%				
No. Numerical Results[‡] / No. FN[‡]	65 / 0	66 / 0	68 / 0	67 / 1				
Test No.	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score
115	0.183	-1.6	1.430	0.8	0.047	-2.3	0.500	0.5
116	0.322	0.3	1.120	-0.3	0.122	0.4	0.431	-0.1
117								
118								
119								
120								
121								
122								
123								
124								
125	0.248	-0.7	1.023	-0.6	0.056	-2.0	0.248	-1.8
126	0.231	-0.9	0.960	-0.8	0.080	-1.1	0.330	-1.0
127	0.446	1.9	1.620	1.4	0.171	2.2	0.612	1.5
128								
129	0.506	2.7	1.970	2.6	0.220	4.0	0.851	3.6
130	0.288	-0.2	0.960	-0.8	0.101	-0.3	0.285	-1.4
3rd-131								
3rd-132					0.710	21.7	1.560	10.0
3rd-133								
3rd-134								
3rd-135								
3rd-136								
3rd-137								
3rd-138								
3rd-139								

[‡] including results from an EU candidate country and 3rd countries

Table 3: Results for optional compounds in EUPT-SRM12 reported (z-scores were calculated using preliminary assigned values.)

Pesticide	Bifenazate	Bromide ion	Carbofuran (Part of Sum)	Chlorate	Dithianon	Phosphonic acid	NAG					
MRRL	0.02	3	0.001	0.02	0.02	0.05	0.02					
AV	0.270	19.1	0.0030	0.490	0.294	19.3	0.100					
CV*	22.1%	16.0%	47.1%	16.2%	25.3%	27.0%	23.2%					
No. Numerical Results [‡] / No. FN [‡]	56 / 0	55 / 0	59 / 18	60 / 0	64 / 1	51 / 0	15 / 1					
Test No.	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score
1	0.172	-1.5	22.0	0.6	0.0027	-0.4	0.452	-0.3	0.160	-1.8	15.9	-0.7
2	0.198	-1.1	17.3	-0.4	FN (RL=0.001)	-2.7	0.470	-0.2	0.268	-0.3	17.9	-0.3
3	0.201	-1.0			0.0020	-1.3			0.104	-2.6		
4					0.00163	-1.8			0.284	-0.1		
5												
6	0.184	-1.3			FN (RL=0.01)*	-2.7	0.700	1.7	0.275	-0.3	20.9	0.3
7	0.385	1.7	13.2	-1.2			0.504	0.1			20.34	0.2
8			21.2	0.4	0.0027	-0.4	0.790	2.5			16.7	-0.5
9					0.0034	0.5	0.525	0.3			51.7	6.7
10					0.0067	4.9	0.546	0.5			27.9	1.8
11												
12	0.220	-0.7	21.0	0.4	FN (RL=0.01)*	-2.7	0.470	-0.2	0.290	0.0	21.0	0.4
13			28.5	2.0	0.0019	-1.5			0.280	-0.2		
14							0.525	0.3	0.306	0.2	17.78	-0.3
15			18.0	-0.2								
16			20.2	0.2								
17	0.308	0.6			0.0057	3.6						
18	0.249	-0.3	17.1	-0.4	0.0018	-1.6	0.490	0.0	0.287	-0.1	20.1	0.2
19			20.2	0.2			0.551	0.5	0.277	-0.2		
20					0.0024	-0.8	0.545	0.5	0.305	0.2		0.069
21	0.241	-0.4			0.0031	0.1	0.524	0.3	0.390	1.3	16.4	-0.6
22			18.9	0.0	0.0053	3.1	0.510	0.2	0.340	0.6	22.4	0.7
23												
24			18.2	-0.2					0.329	0.5		
25	0.320	0.7			0.0061	4.1			0.320	0.4		0.093
26	0.300	0.4	18.0	-0.2	0.0020	-1.3	0.570	0.7	0.330	0.5	25.3	1.3
27	0.239	-0.5			FN (RL=0.01)*	-2.7						
28									0.267	-0.4		
29	0.218	-0.8			0.0034	0.5						
30					0.0016	-1.9			0.748	6.2		
31												
32												
33	0.204	-1.0	17.3	-0.4	0.0039	1.2	0.527	0.3	0.307	0.2	17.3	-0.4
34	0.326	0.8	10.1	-1.9	0.0021	-1.2	1.170	5.6	0.242	-0.7	67.6	10.0
35	0.316	0.7	18.0	-0.2	0.0047	2.3	0.447	-0.3	0.306	0.2	19.9	0.1
36												
37												
38					0.0018	-1.6	0.510	0.2				

Table 3: Results for optional compounds in EUPT-SRM12 reported (z-scores were calculated using preliminary assigned values.)

Pesticide	Bifenazate	Bromide ion	Carbofuran (Part of Sum)	Chlorate	Dithianon	Phosphonic acid	NAG							
MRRL	0.02	3	0.001	0.02	0.02	0.05	0.02							
AV	0.270	19.1	0.0030	0.490	0.294	19.3	0.100							
CV*	22.1%	16.0%	47.1%	16.2%	25.3%	27.0%	23.2%							
No. Numerical Results [‡] / No. FN [‡]	56 / 0	55 / 0	59 / 18	60 / 0	64 / 1	51 / 0	15 / 1							
Test No.	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score		
39	0.280	0.1	18.0	-0.2	FN (RL=0.01)*	-2.7	0.560	0.6	0.410	1.6		0.121	0.8	
40					0.0090	8.0			0.325	0.4				
41	0.280	0.1	16.9	-0.5	0.0025	-0.7			1.400	15.1	25.0	1.2		
42	0.275	0.1	0.160	-4.0	0.00435	1.8	0.529	0.3			18.85	-0.1		
43						0.340	-1.2							
44														
45	0.377	1.6	29.6	2.2	0.0023	-0.9	0.248	-2.0						
46						0.490	0.0	0.0407	-3.4					
47	0.285	0.2	19.5	0.1		0.492	0.0	0.297	0.0	14.2	-1.1			
48	0.295	0.4	20.79	0.4	0.0039	1.2	0.348	-1.2						
49			19.0	0.0	0.0012	-2.4								
50	0.285	0.2	20.3	0.2	0.0015	-2.0			0.323	0.4				
51								0.380	1.2					
52	0.257	-0.2	21.5	0.5	FN (RL=0.01)*	-2.7	0.488	0.0	0.024	-3.7	15.3	-0.8	0.139	1.5
53	0.234	-0.5	21.483	0.5	0.0040	1.3	0.494	0.0	0.317	0.3	21.026	0.4		
54														
55					0.0046	2.1	0.547	0.5	0.107	-2.5	5.14	-2.9		
56														
57														
58	0.423	2.3	27.4	1.7	0.0041	1.5	0.102	-3.2	0.189	-1.4	28.0	1.8		
59														
60														
61														
62					FN (RL=0.05)*	-2.7								
63	0.304	0.5	31.0	2.5	0.0090	8.0	0.221	-2.2	0.252	-0.6	0.185	-4.0		
64									0.299	0.1	19.1	0.0		
65														
66			19.7	0.1	0.0026	-0.5	0.695	1.7						
67					0.0025	-0.7	0.402	-0.7	0.317	0.3	13.7	-1.2		
68														
69			19.4	0.1	0.0021	-1.2								
70	0.630	5.3			0.0051	2.8	0.128	-3.0	0.350	0.8	9.1	-2.1		
71	0.245	-0.4	29.3	2.1	0.0028	-0.3	0.411	-0.6	0.179	-1.6				
72	0.187	-1.2			0.0018	-1.6	0.554	0.5	0.384	1.2	18.95	-0.1		
73					FN (RL=0.01)*	-2.7	0.391	-0.8						
74	0.340	1.0	19.9	0.2	0.0029	-0.1			0.277	-0.2				
75					FN (RL=0.005)	-2.7			0.019	-3.7				
76	0.227	-0.6	16.35	-0.6	0.0021	-1.2	0.480	-0.1	0.285	-0.1	18.05	-0.3	0.093	-0.3

Table 3: Results for optional compounds in EUPT-SRM12 reported (z-scores were calculated using preliminary assigned values.)

Pesticide	Bifenazate	Bromide ion	Carbofuran (Part of Sum)	Chlorate	Dithianon	Phosphonic acid	NAG					
MRRL	0.02	3	0.001	0.02	0.02	0.05	0.02					
AV	0.270	19.1	0.0030	0.490	0.294	19.3	0.100					
CV*	22.1%	16.0%	47.1%	16.2%	25.3%	27.0%	23.2%					
No. Numerical Results [‡] / No. FN [‡]	56 / 0	55 / 0	59 / 18	60 / 0	64 / 1	51 / 0	15 / 1					
Test No.	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score
77												
78	0.245	-0.4	18.1	-0.2	0.00411	1.5	0.471	-0.2		17.4	-0.4	
79			10.6	-1.8	0.0020	-1.3	0.501	0.1	0.868	7.8	23.03	0.8
80												
81			19.7	0.1	0.0027	-0.4	0.400	-0.7	0.282	-0.2	21.0	0.4
82												
83												
84	0.290	0.3	20.0	0.2	0.0049	2.5	0.540	0.4	0.280	-0.2	22.0	0.6
85												
86	0.239	-0.5					0.468	-0.2			14.5	-1.0
87												
88							0.485	0.0				
89	0.397	1.9							0.238	-0.8		
90					0.0038	1.1	0.482	-0.1	2.570	31.0	9.95	-1.9
91			14.8	-0.9					0.260	-0.5		
92	0.293	0.3			0.0024	-0.8	0.507	0.1	0.313	0.3	20.0	0.2
93												
94			11.9	-1.5			0.549	0.5	0.405	1.5	22.7	0.7
95	0.237	-0.5	21.2	0.4	0.0007	-3.1	0.433	-0.5	FN	-3.9	14.6	-1.0
96												
97	0.350	1.2	24.4	1.1	FN (RL=0.01)*	-2.7	0.502	0.1	0.300	0.1	20.9	0.3
98			17.8	-0.3	FN (RL=0.001)	-2.7	0.441	-0.4	0.299	0.1	21.2	0.4
99	0.201	-1.0	16.8	-0.5	0.0019	-1.5	0.562	0.6			7.91	-2.4
100												
101												
102	0.230	-0.6	18.1	-0.2	0.0017	-1.7	0.730	2.0	0.250	-0.6	20.5	0.3
103	0.278	0.1	18.4	-0.1	0.0032	0.3	0.415	-0.6	0.323	0.4	20.4	0.2
104	0.302	0.5							0.271	-0.3		
105												
106	0.250	-0.3			FN (RL=0.01)*	-2.7						
107	0.239	-0.5			FN (RL=0.001)	-2.7			0.188	-1.4		
108												
109	0.310	0.6			0.0031	0.1	0.535	0.4	0.346	0.7	22.5	0.7
110												
111												
112												
113	0.310	0.6	23.0	0.8	0.0032	0.3			0.300	0.1		
114												

Table 3: Results for optional compounds in EUPT-SRM12 reported (z-scores were calculated using preliminary assigned values.)

Pesticide	Bifenazate	Bromide ion	Carbofuran (Part of Sum)	Chlorate	Dithianon	Phosphonic acid	NAG							
MRRL	0.02	3	0.001	0.02	0.02	0.05	0.02							
AV	0.270	19.1	0.0030	0.490	0.294	19.3	0.100							
CV*	22.1%	16.0%	47.1%	16.2%	25.3%	27.0%	23.2%							
No. Numerical Results [‡] / No. FN [‡]	56 / 0	55 / 0	59 / 18	60 / 0	64 / 1	51 / 0	15 / 1							
Test No.	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score	Conc. [mg/kg]	z-score
115	0.250	-0.3	20.0	0.2	0.0017	-1.7	0.490	0.0	0.280	-0.2	29.0	2.0	0.071	-1.2
116			18.3	-0.2			0.516	0.2	0.438	2.0	17.4	-0.4		
117			19.1	0.0										
118	0.210	-0.9	21.1	0.4	0.0330	40.0								
119														
120					FN (RL=0.01)*	-2.7								
121					0.0023	-0.9								
122														
123					0.0013	-2.3								
124					FN (RL=0.01)*	-2.7								
125	0.322	0.8	18.0	-0.2	0.0027	-0.4	0.570	0.7	0.354	0.8	18.0	-0.3	0.104	0.1
126	0.159	-1.6			FN (RL=0.01)*	-2.7								
127	0.333	0.9			0.0027	-0.4	0.268	-1.8	0.261	-0.4	20.1	0.2		
128														
129	0.256	-0.2	5.66	-2.8			0.232	-2.1	0.233	-0.8	8.41	-2.3		
130	0.258	-0.2			0.0022	-1.1	0.497	0.1	0.210	-1.1	26.5	1.5		
3rd-131									0.340	0.6				
3rd-132			9.5	-2.0	FN (RL=0.01)*	-2.7								
3rd-133			21.2	0.4										
3rd-134	0.500	3.4			0.0030	0.0								
3rd-135					FN (RL=0.01)*	-2.7								
3rd-136														
3rd-137														
3rd-138	0.219	-0.8	20.3	0.2							17.4	-0.4		
3rd-139														

[‡] including results from an EU candidate country and 3rd countries

* Despite labs' reporting RLs > AV these results are considered as FNs based on the rules in the general protocol.

Table 4: Potentially False Positive Results

Test No.	Analyte	MRRL [mg/kg]	RL [mg/kg]	Reported results [mg/kg] (cp. to MRRL)	Preliminary Judgement
118	Propamocarb	0.01	0.01	0.034	FP
3rd-137	Propamocarb	0.01	0.01	< RL (\triangleq < MRRL)	Not as FP
3rd-131	Abamectin	0.01	0.01	0.0045 (< MRRL)	Not as FP
3rd-132	Abamectin	0.01	0.01	0.023	FP
3rd-135	Cyromazine	0.01	0.01	0.03	FP