Table 1: Results and z-Scores, Peach Purée Test Material

laboratory number		analyte															
		azinphos-methyl assigned value 433 µg/kg				chlorpyrifos assigned value 170 µg/kg				gamma-HCH assigned value 69.7 µg/kg				quinalphos assigned value 42.5 µg/kg			
		result µg/kg	recovery %	LoQ µg/kg	z-score	result µg/kg	recovery %	LoQ µg/kg	z-score	result µg/kg	recovery %	LoQ µg/kg	z-score	result µg/kg	recovery %	LoQ µg/kg	z-score
001		815	70	30	**4.9**	155	90	10	-0.4	70	70	30	0.0	40	89	10	-0.3
002		302	102	50	-1.7	151	95	10	-0.5	67	87	10	-0.2	39	83	20	-0.4
003		406.2	96.9	20	-0.3	169.5	98.3	10	0.0	72.5	97.2	5	0.2	47.3	99.8	10	0.5
004		#				146			-0.7	66			-0.2	#			
005		#				190	94	20	0.6	78	94	25	0.5	#			
006		484	85	50	0.7	190	80	20	0.6	82	80	20	0.8	54	70	20	1.2
007		414	95	10	-0.2	192	100	28	0.6	76	90	5	0.4	45	94	28	0.3
008		334	80	10	-1.3	164	100	10	-0.2	56	90	10	-0.9	43	100	10	0.1
009		420	91	180	-0.2	210	95	60	1.1	80	100	60	0.7	50*	100	90	0.8
010		344			-1.1	165			-0.1	61.8			-0.5	45.7			0.3
011		590.00		40.00	2.0	230.00		13.00	1.7	97.00	96.00	7.00	1.8	#			
012		#				#				#				#			
013	†	#				174	89	10	0.1	97	101	10	1.8	#			
014		515	115	3	1.0	197	110	13	0.8	86	105	7	1.1	#			
015		213	87	100	**-2.8**	61	88	50	**-3.1**	0			**-4.5**	25	85	20	-1.9
016		390	104.3	50	-0.5	180	99.7	20	0.3	60	89.5	20	-0.6	50	95.6	20	0.8

LoQ = limit of quantification # = pesticide not analysed for unsatisfactory z-scores are highlighted in **bold** * = result <LoQ
† = additional pesticides reported (see Table 2)

Table 1 (continued): Results and z-Scores, Peach Purée Test Material

laboratory number	analyte															
	azinphos-methyl assigned value 433 µg/kg				chlorpyrifos assigned value 170 µg/kg				gamma-HCH assigned value 69.7 µg/kg				quinalphos assigned value 42.5 µg/kg			
	result µg/kg	recovery %	LoQ µg/kg	z-score	result µg/kg	recovery %	LoQ µg/kg	z-score	result µg/kg	recovery %	LoQ µg/kg	z-score	result µg/kg	recovery %	LoQ µg/kg	z-score
017	331.0	83	10	-1.3	146.0	93	10	-0.7	50.0	80	25	-1.3	36.0	85	10	-0.7
018	368	97	10	-0.8	136	86	10	-1.0	58	86	10	-0.8	37	93	10	-0.6
019	#				166	85	10	-0.1	0			**-4.5**	37	85	10	-0.6
020	#				170	84	50	0.0	60	118	10	-0.6	40*	98	50	-0.3
021	460	89	20	0.3	127	88	10	-1.2	43	87	5	-1.7	34	103	10	-0.9
022	#				166	100	10	-0.1	84	84	10	0.9	#			
023	#				143	75	10	-0.8	60	78	10	-0.6	44	74	10	0.2
024	440.2			0.1	165.7			-0.1	68.6			-0.1	#			
025	413	118	0.05	-0.3	160	98	0.05	-0.3	108	119	0.05	**2.5**	39	103	0.05	-0.4
026	544	111	64	1.4	376	95	27	**5.8**	104	105	1.5	**2.2**	#			
027	0		50	**-5.5**	180	80	10	0.3	60	86	10	-0.6	36	90	10	-0.7
028	389.1	91.1	30	-0.6	194.4	95.1	5	0.7	69.3	95.4	5	0.0	46.6	95.4	15	0.4
029	615	93	17	**2.3**	40	88	20	**-3.7**	24	97	6	**-3.0**	#			
030	380	93	20	-0.7	130	63	20	-1.1	#				45	95	20	0.3
031	208	109	50	**-2.9**	98	127	10	-2.0	39	117	10	-2.0	28	118	20	-1.5
032	447	99	5	0.2	173	104	5	0.1	74	75	10	0.3	41	86	5	-0.2

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Table 1 (continued): Results and z-Scores, Peach Purée Test Material

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033		352	99	50	-1.0	169	100	30	0.0	74.3	119	20	0.3	39.1	89	30	-0.4
034		830	88	40	**5.1**	150	60	4.0	-0.6	76	79	9.6	0.4	#			
035		#				165	98	5	-0.1	55	90	5	-1.0	39	108	10	-0.4
036	†	0	85	30	**-5.5**	#				635	80	50	**36.9**	41	90	30	-0.2
037		0	83	100	**-5.5**	0	5.6	20	**-4.8**	72.63	93.48	20	0.2	47.50*	89	50	0.5
038		341.9	83	50	-1.2	151.5	83	20	-0.5	55.5	79	20	-0.9	42.3	84	20	0.0
039		#				151.9	96	30	-0.5	90.3	90	50	1.3	#			
040		713.8	75	75	**3.6**	126	75	50	-1.2	#				40.6	75	30	-0.2
041		456	103	25	0.3	217	105	7	1.3	#				#			
042		480	96	20	0.6	220	98	15	1.4	62	91	15	-0.5	67	98	15	**2.6**
043		717	101	10	**3.6**	186	82	10	0.4	60	71	10	-0.6	53	68	10	1.1
044		0		0.01	**-5.5**	137.9	91	0.01	-0.9	63.7	88	0.01	-0.4	49.7	85	0.02	0.8
045		0.44	96	0.025	**-5.5**	0.19	110	0.013	**-4.8**	0.083	96	0.007	**-4.5**	#			
046		#				183.	90.4	20.	0.4	84.	72.	20.	0.9	47.	98.8	10.	0.5
047		0	70-120	50	**-5.5**	161	70-120	10	-0.3	63	70-120	10	-0.4	<LOQ	70-120	50	
048		348	72	20	-1.1	133	85	5	-1.0	43	95	5	-1.7	31	83	10	-1.2

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Table 1 (continued): Results and z-Scores, Peach Purée Test Material

laboratory number	analyte															
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049	NQ				199	105	50	0.8	63.6	80	10	-0.4	NQ			
050	#				#				76	126	8	0.4	#			
051	#				168.30	80	20	-0.1	60.10	80	20	-0.6	48.40	80	20	0.6
052	#				209	101	10	1.1	78	98	10	0.5	73	98	10	**3.3**
053	426.52	80	20	-0.1	155.01	60	20	-0.4	#				34.36	75	10	-0.9
054	#				115	80	10	-1.6	55	90	10	-1.0	71	70	10	**3.1**
055	#				134	79	10	-1.0	83	105	10	0.9	35	89	10	-0.8
056	390	107.0	10	-0.5	179	108.1	10	0.2	64	108.6	5	-0.4	45	108.4	10	0.3
057	#				112			-1.6	53			-1.1	#			
058	270	85	10	**-2.1**	200	81	10	0.8	80	91	5	0.7	77	83	10	**3.7**
059	54.0		30	**-4.8**	81.5	85.0	10	**-2.5**	68.5	85.0	10	-0.1	21.5	70.0	10	**-2.2**
060	648.2	101.6	20	**2.7**	225.3	109.0	10	1.5	77.1	97.8	10	0.5	18.1	78.0	10	**-2.6**
061	0			**-5.5**	0.1		0.02	**-4.8**	0			**-4.5**	#			
062	#				83.2	90.6	5	**-2.4**	77.4	70	50	0.5	34.2	84.3	10	-0.9
063	539.00	98	10.00	1.4	260.00	101	10.00	**2.5**	71.00	103	20.00	0.1	71.00	110	10.00	**3.1**
064	346.9	106	10	-1.1	656.5	62	10	**13.7**	54.8	91	10	-1.0	25.7	95	10	-1.8

LoQ = limit of quantification NQ = pesticide identified but not quantified # = pesticide not analysed for unsatisfactory z-scores are highlighted in **bold**

Table 1 (continued): Results and z-Scores, Peach Purée Test Material

laboratory number	analyte															
	azinphos-methyl assigned value 433 µg/kg				chlorpyrifos assigned value 170 µg/kg				gamma-HCH assigned value 69.7 µg/kg				quinalphos assigned value 42.5 µg/kg			
	result µg/kg	recovery %	LoQ µg/kg	z-score	result µg/kg	recovery %	LoQ µg/kg	z-score	result µg/kg	recovery %	LoQ µg/kg	z-score	result µg/kg	recovery %	LoQ µg/kg	z-score
065	255.00	72	10.00	**-2.3**	192.00	100	10.00	0.6	76.00	99	5.00	0.4	53.00	76	10.00	1.1
066	358.4		10	-0.9	162.7		10	-0.2	616.0		10	**35.6**	#			
067	435	75	20	0.0	180	100	10	0.3	60	90	10	-0.6	75	95	10	**3.5**
068	490	100	10	0.7	190	100	10	0.6	72	100	10	0.2	42	100	10	-0.1
069	290		10	-1.8	150		10	-0.6	0		10	**-4.5**	40		10	-0.3
070	250		10	**-2.3**	83		10	**-2.5**	0		10	**-4.5**	30			-1.3
071	#				137	91	10	-0.9	#				#			
072	397	98	10	-0.5	177	120	10	0.2	61.3	119	10	-0.5	47.1	118	10	0.5
073	460	80	10	0.3	216	80	10	1.3	63	80	10	-0.4	43	80	10	0.1
074	450	106	37	0.2	210	89	13	1.1	81	97	5	0.7	#			
075	#				180	89		0.3	44.5	80		-1.6	#			
076	755.2	100	10	**4.1**	147.6	100	10	-0.6	59.8	100	50	-0.6	#			
077	#				202	74.5	50	0.9	78	86.4	100	0.5	49*	81.8	50	0.7
078	259	80-110		**-2.2**	208	85-110		1.1	86	80-110		1.1	128	75-110		**9.2**
079	#				150	85.3	10	-0.6	#				32	85.3	10	-1.1
080	491.5	117	10	0.7	171.5	80	10	0.0	67.6	80	10	-0.1	48.8	80	40	0.7
081	#				160	90	10	-0.3	#				40	90	10	-0.3

LoQ = limit of quantification # = pesticide not analysed for unsatisfactory z-scores are highlighted in **bold** * = result <LoQ

Table 2: Additional Pesticide Residues Reported > 20 µg/kg

laboratory number	pesticide residue	result µg/kg	recovery %	LoQ µg/kg
013	cypermethrin	37	68	10
013	fenpropathrin	21	78	10
036	parathion	133	85	30

Three participants reported results for piperonyl butoxide, a residue not on the FAPAS® list, at 30, 31 and 57 µg/kg respectively

Table 3: Assigned Values and Target Standard Deviations

analyte	assigned value, µg/kg				target standard deviation, µg/kg	
	data points, n	robust mean, $\hat{X}$	robust standard deviation, $\hat{\sigma}$	uncertainty, u	derived from	σ_p
azinphos-methyl	38	433	134.4	21.8	Horwitz*	78.5
chlorpyrifos	58	170	34.9	4.6	Horwitz*	35.6
gamma-HCH	52	69.7	13.9	1.9	Horwitz*	15.3
quinalphos	46	42.5	9.9	1.5	Horwitz*	9.3

*see page 7 for the appropriate form of the Horwitz equation

Table 4: Number and Percentage of Satisfactory z-Scores

analyte	number of satisfactory scores $\|z\| \leq 2$	total number of scores	satisfactory %
azinphos-methyl	36	57	63
chlorpyrifos	67	78	86
gamma-HCH	62	73	85
quinalphos	48	57	84