Table 1: Results and z-Scores for Tea Test Material

laboratory number		analyte			
		γ-HCH			
		assigned value 618 µg/kg			
		result µg/kg	recovery %	LoQ µg/kg	*z-score*
001		780	110	6	*1.5*
002		281		2	*-3.2*
003		489	98	0.005	*-1.2*
004	†	464	85%		*-1.5*
005		493	77	5	*-1.2*
006		541.5	100.5	20.	*-0.7*
007		488	78	10	*-1.2*
008		244	104	10	*-3.5*
009		600	28	10	*-0.2*
010		736	87.3	1	*1.1*
011		0.052	103 %	0.013 ♠	*-5.8*
012		668	81	15	*0.5*
013		1.09	70–110	0.01	*-5.8*
014		619	108	20	*0.0*
015		594	92	10	*-0.2*
016		673	85	50	*0.5*
017		720		20	*1.0*
018		963.5	62.4	20	*3.2*
019		864	104.7	5	*2.3*
020		543	90.98	10	*-0.7*
021		420	74	10	*-1.9*
022		33.1	64.7	30	*-5.5*
023		329	100	10	*-2.7*
024		665	73.3	10	*0.4*
025		622	81	10	*0.0*

LoQ = limit of quantification
† = additional pesticides identified (see Table 2)
figures in italics are shown for information only
♠ = reported in mg/kg

Table 1 (continued): Results and z-Scores for Tea Test Material

laboratory number		analyte			
		γ-HCH			
		assigned value 618 µg/kg			
		result µg/kg	recovery %	LoQ µg/kg	*z-score*
026		427	85	0.005	*-1.8*
027		350	96	20	*-2.5*
028		523	85	10	*-0.9*
029	†	5.24	69	1	*-5.8*
030		722.39	109	5.00	*1.0*
031	†	0			*-5.8*
032		176.1	85	5	*-4.2*
033		558		30	*-0.6*
034		#			
035		760			*1.3*
036		80	90	10	*-5.1*
037		280		10	*-3.2*
038		681.3	89	10	*0.6*

LoQ = limit of quantification # = pesticide not analysed for
† = additional pesticides identified (see Table 2)
figures in italics are shown for information only

Table 2: Additional Pesticide Residues Reported > 30 µg/kg

laboratory number	pesticide residue	result µg/kg	recovery %	LoQ µg/kg
004	cypermethrin	68	70%	
004	phosalone	56	65%	
004	trifluralin	67	82%	
026	endosulfan sulfate ♠	NQ		
029	op'-DDT	35.14	59	10
029	ethion	39.21	52	10
029	parathion-methyl	60.29	55	10
031	penconazole	38		

♠ = not on the list of 66 pesticides sent to participants NQ = identified but not quantified

Table 3: Assigned Values and Target Standard Deviations

analyte	assigned value, µg/kg				target standard deviation, µg/kg	
	data points *n*	mode	standard error (sem)	uncertainty *u*	derived from	σ_p
γ-HCH	24	*618*	*59.3*	*59.3*	Horwitz*	*106.3*

* see page 7 for appropriate form of the Horwitz equation
figures in italics are shown for information only

Table 4: Number and Percentage of Satisfactory z-Scores

analyte	number of satisfactory scores $\|z\| \leq 2$	total number of scores	satisfactory %
γ-HCH	*23*	37	*62*

figures in italics are shown for information only

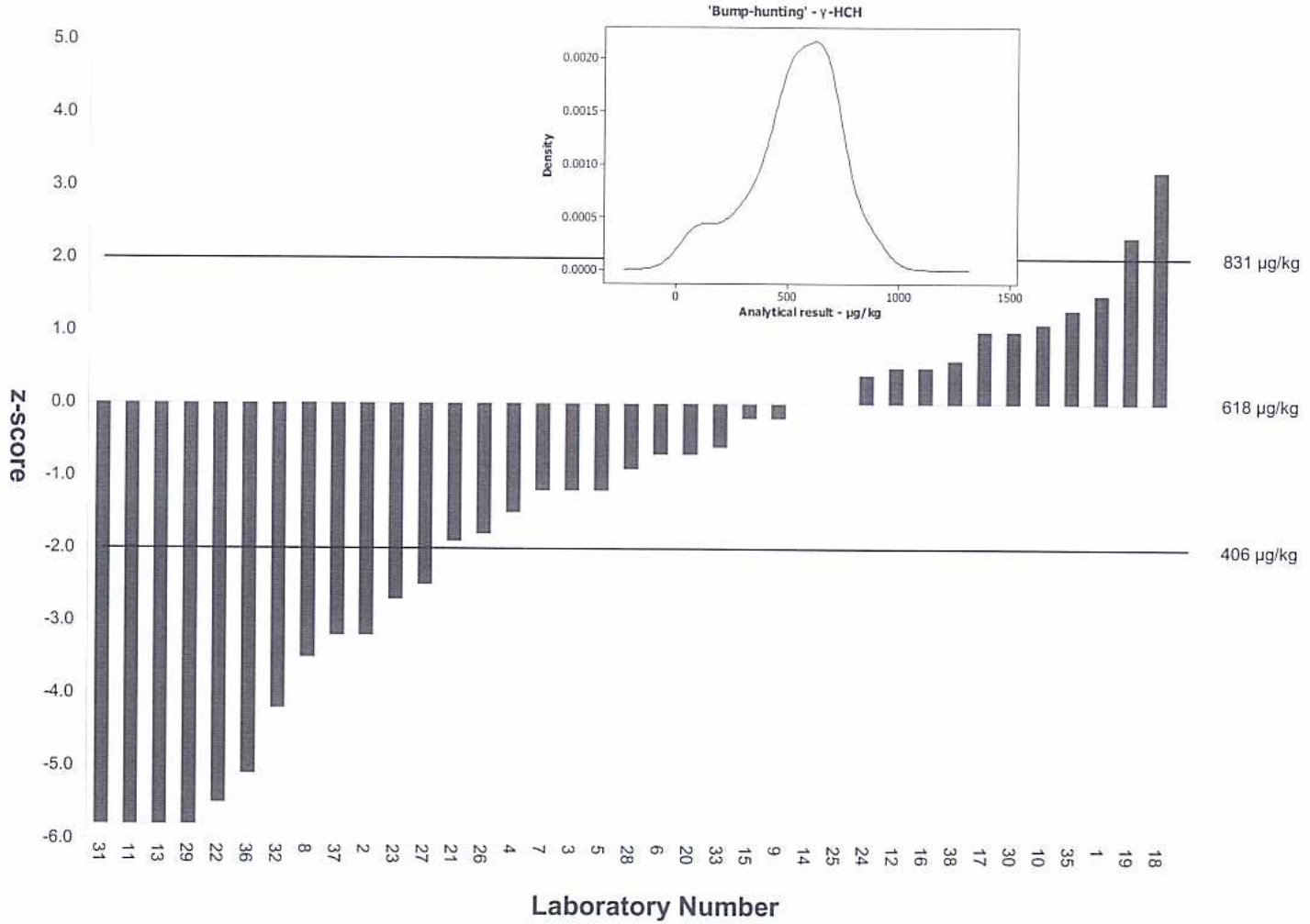

Figure 1: z-Scores for γ-HCH (*618* µg/kg) in Tea Test Material

participants assigned a result of 0 µg/kg for γ-HCH obtain a z-score of –5.8

This histogram is shown for information only

APPENDIX I: Homogeneity Data for Tea Test Material

sample identity	analyte	
	γ-HCH µg/kg	
	replicate 1	replicate 2
1	705.0	697.5
2	682.5	772.5
3	702.5	740.0
4	690.0	777.5
5	755.0	697.5
6	680.0	747.5
7	720.0	762.5
8	717.5	750.0
9	697.5	690.0
10	702.5	717.5
mean	720.3	
n	20	
origin of target sd (σ_p)	Horwitz*	
σ_p as RSD%	16.81	
abs. target sd (σ_p)	121.05	
s_{an}	37.57	
s_{sam}^2	0	
σ_{all}^2	1318.76	
critical	3904.64	
s_{sam}^2<critical?	**ACCEPT**	

* see page 7 for appropriate form of the Horwitz equation