

Table 1: Results and z-Scores, Paprika Test Material

laboratory number	analyte			laboratory number	analyte		
	assigned value	OTA			assigned value	OTA	
		22.9	µg/kg			22.9	µg/kg
result µg/kg	recovery %	z-score	result µg/kg	recovery %	z-score		
001	19.3	73	-0.7	024	25.1	84	0.4
002	14.6	114	-1.6	025	22.4	80.0	-0.1
003	33.2	57.8	2.0	026	23.19	92	0.1
004	20.7	88.7	-0.4	027	19.6	103	-0.7
005	18.36	80	-0.9	028	24.00	78.0	0.2
006	20.75	70.5	-0.4	029	28.7	76	1.2
007	37.8	41	<b>3.0</b>	030	21.8	100	-0.2
008	40.8	79.6	<b>3.6</b>	031	20.89	uncorr	-0.4
009	25.3	72	0.5	032	16.4	92	-1.3
010	22.7	84	0.0	033	17.28	85	-1.1
011	23.7	113	0.2	034	26.01	104	0.6
012	39.4	78	<b>3.3</b>	035	14.49	82.4	-1.7
013	37.84	98.9	<b>3.0</b>	036	1.33	uncorr	<b>-4.3</b>
014	22.88	100	0.0	037	28.52	82	1.1
015	23.20	78.3	0.1	038	16.21	uncorr	-1.3
016	12.29	100	<b>-2.1</b>	039	14.8	uncorr	-1.6
017	2.8	88.8	<b>-4.0</b>	040	30.6	87	1.5
018	25.6	93.9	0.5	041	24.22	87.3	0.3
019	17.32	89	-1.1	042	26.2	75.6	0.7
020	16.4	83.0	-1.3	043	20.2	79.9	-0.5
021	27.4	95	0.9	044	19.9	93.3	-0.6
022	21.12	87.0	-0.4	045	25	uncorr	0.4
023	25.8	86.8	0.6	046	16.5	100	-1.3

uncorr = participant did not state recovery or stated not corrected for recovery  
z-scores outside the satisfactory range, i.e.  $|z| > 2$ , are shown in **bold**

Table 2: Assigned Value and Target Standard Deviation

analyte	assigned value, µg/kg				target standard deviation, µg/kg	
	data points <i>n</i>	robust mean $\hat{X}$	robust standard deviation $\hat{\sigma}$	uncertainty <i>u</i>	derived from	$\sigma_p$
OTA	41	22.9	6.24	0.974	Horwitz*	5.04

\* see page 6/7 for the appropriate form of the Horwitz equation

Table 3: Number and Percentage of Satisfactory z-Scores

analyte	number of satisfactory scores $ z  \leq 2$	total number of scores	satisfactory %
OTA	39	46	85

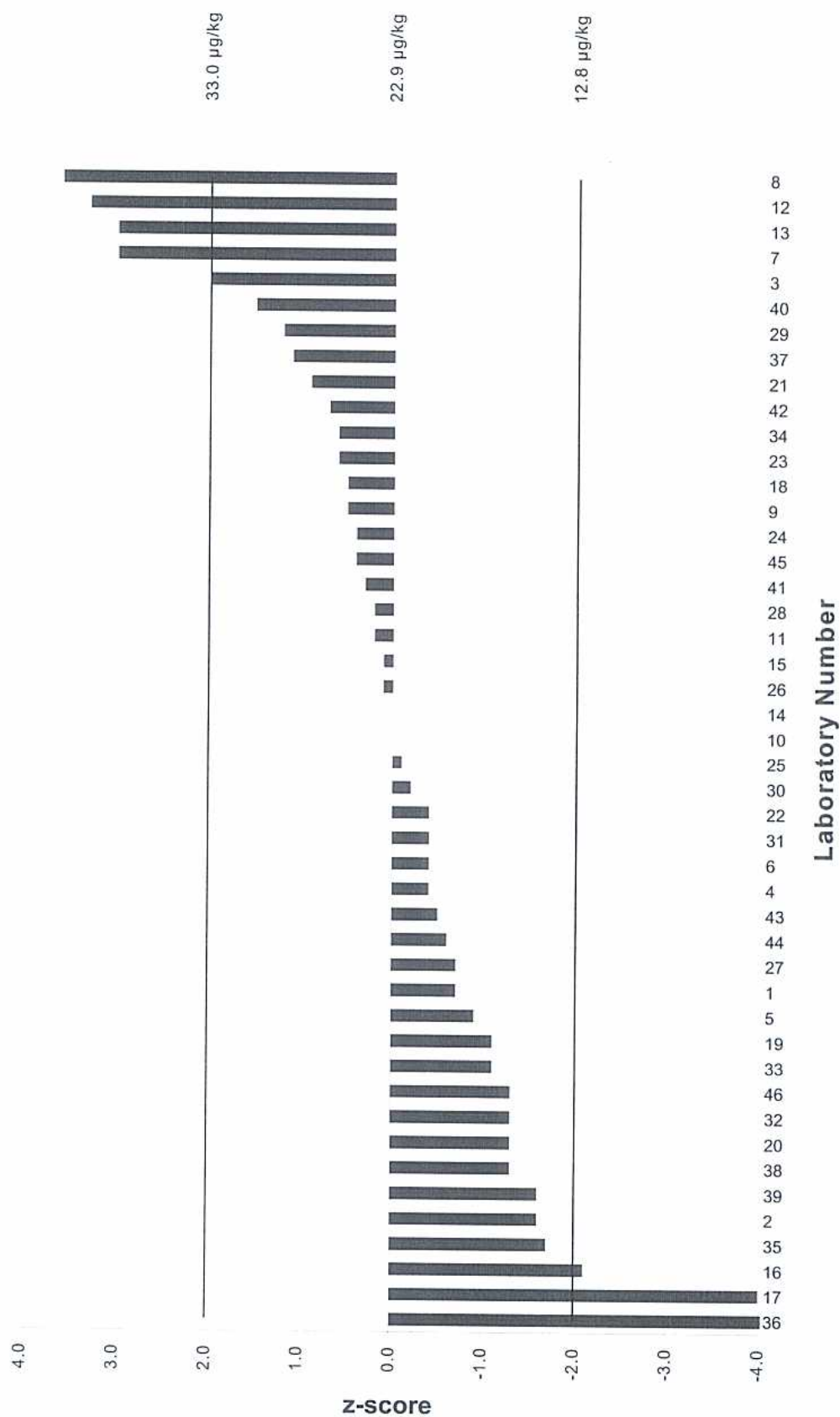


Figure 1: z-Scores for Ochratoxin A (22.9 µg/kg) in Paprika Test Material

**APPENDIX I: Homogeneity Data for Paprika Test Material**

sample identity	analyte	
	OTA	
	µg/kg	
	replicate 1	replicate 2
1	22.7	20.7
2	22.6	21.5
3	22.5	23.7
4	21.1	25.5
5	21.6	23.9
6	22.5	21.0
7	21.9	24.6
8	21.5	23.7
9	19.2	23.5
10	22.8	26.1
mean	22.6	
<i>n</i>	20	
origin of target sd ( $\sigma_p$ )	Horwitz*	
target sd ( $\sigma_p$ )	4.98	
RSD%	22	
$s_{an}$	1.95	
$s_{sam}^2$	0	
$\sigma_{all}^2$	2.23	
<i>critical</i>	8.05	
$s_{sam}^2 < critical?$	<b>ACCEPT</b>	

\* see page 6/7 for the appropriate form of the Horwitz equation.