

Results of Proficiency Test
Migration of elements
April 2014

Organised by: Institute for Interlaboratory Studies
Spijkenisse, the Netherlands

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1 INTRODUCTION

Toy safety is the practice of ensuring that toys, especially those made for children, are safe, usually through the application of set safety standards. In many countries, toys must be able to pass safety tests in order to be sold. Many regions model their safety standards on the EU's EN71 standard, either directly, or through adoption of the ISO8124 standard which in itself is modelled on EN71. In Europe, toys must meet the criteria set by the EC Toy Safety Directive (Council Directive 88/378/EEC). This directive has recently been superseded by Council Directive 2009/48/EC, which applies to toy imports into the EU on 20 July 2011. There is an exception for the chemical requirements under part III of Annex II of this directive. These chemical requirements became into force on 20 July 2013.

Part 3 of EN71:1994 (to be superseded by EN71-3:2013) describes the determination of migration of elements (metals that are considered hazardous) when a toy gets into contact with an acid solution (0.07 n HCl, simulating a gastric acid solution).

In this interlaboratory study on migration of certain elements 116 laboratories in 31 different countries participated. See appendix 3 for the number of participants per country.

In this report the results of the 2014 proficiency test are presented and discussed. This report is also electronically available through the iis internet site www.iisnl.com.

2 SET UP

The Institute for Interlaboratory Studies in Spijkenisse, the Netherlands, was the organiser of this proficiency test (PT). Analyses were subcontracted to an ISO17025 accredited laboratory. It was decided to send two different samples with different concentrations of metals.

The first sample, prepared by a subcontractor, was a paint spiked with the metals aluminium, antimony, arsenic, cadmium, manganese, nickel and zinc, applied and dried on a PVC plate. The second sample, prepared by iis, was a plaster sample to which Antimony and Lead were added.

Both batches contained a combination of elements mentioned in the 'new' Council Directive 2009/48/EC to the regular elements.

Participants were requested to report unrounded and rounded *cfr* EN71-3:2013, when applicable.

2.1 ACCREDITATION

The Institute for Interlaboratory Studies in Spijkenisse, the Netherlands, is accredited in agreement with ISO/IEC 17043:2010 (R007), since January 2000, by the Dutch Accreditation Council (Raad voor Accreditatie). This ensures strict adherence to protocols for sample preparation and statistical evaluation and 100% confidentiality of participant's data. Feedback from the participants on the reported data is encouraged and customer's satisfaction is measured on regular basis by sending out questionnaires.

2.2 PROTOCOL

The protocol followed during the organisation of this proficiency test was the one as described for proficiency testing in the report 'iis Interlaboratory Studies: Protocol for the Organisation, Statistics and Evaluation' of April 2014 (iis-protocol, version 3.3).

2.3 CONFIDENTIALITY STATEMENT

All data presented in this report must be regarded as confidential and for use by the participating companies only. Disclosure of the information in this report is only allowed by means of the entire report. Use of the contents of this report for third parties is only allowed by written permission of the Institute for Interlaboratory Studies. Disclosure of the identity of one or more of the participating companies will be done only after receipt of a written agreement of the companies involved.

2.4 SAMPLES

Two batches with different matrixes and containing a number of different elements were prepared. One batch was a (dried) paint applied on a PVC plate prepared by a subcontractor and the second batch was a plaster prepared by iis.

A batch, dried paint on a PVC plate (used for sample #14052) was enriched before application to the plates with the elements aluminium, antimony, arsenic, cadmium, manganese, nickel and zinc. A total of 160 PVC plates was prepared and labelled #14052. The homogeneity of the subsamples #14052 was verified by measuring the total element content on 11 stratified randomly selected samples. The analytical testing was subcontracted to an ISO17025 accredited laboratory. The results varied for Aluminium between 2650 – 4800 mg/kg, for Arsenic between 62 – 73 mg/kg, for Cadmium between 48 – 56 mg/kg, for Manganese between 500 – 600 mg/kg, for Nickel between 470 – 560 mg/kg, for Antimony between 160 – 180 mg/kg and for Zinc between 490 – 590 mg/kg.

The differences between the test results for homogeneity of the subsamples #14052 were all well within the spread of the laboratory and therefore the homogeneity of the subsamples #14052 was assumed.

To the batch of plaster (used for sample #14053) the elements Antimony and Lead were added via several intermediate steps to obtain in the following concentrations: for Sb: 340 mg/kg as Antimony and for Pb: 280 mg/kg Lead.

After thorough mixing/homogenizing, the batch of plaster was divided over 169 plastic bags each filled with 0.5 gram and labelled #14053. The homogeneity of the subsamples was verified by measuring the total element content on 8 stratified randomly selected samples. The results varied for Antimony between 920 – 970 mg/kg and for Lead between 280 – 290 mg/kg. The differences between the test results for homogeneity of the subsamples #14053 were all well within the spread of the laboratory and therefore the homogeneity of the subsamples #14053 was assumed.

One plastic bag with plaster (#14053) and one PVC plate, with dried paint (#14052) were sent to the participating laboratories on April 9, 2014.

2.5 ANALYSES

The participants were requested to determine the migration of elements applying the analysis procedure that is routinely used in the laboratory.

To get comparable results a detailed report form, was sent together with the set of samples. Also a letter of instructions was sent along.

3 RESULTS

During four weeks after sample despatch, the results of the individual laboratories were gathered. The original data are tabulated in the appendices of this report. The laboratories are presented by their code numbers.

Directly after the deadline, a reminder fax was sent to those laboratories that had not yet reported. Shortly after the deadline, the available results were screened for suspect data. A result was called suspect in case the Huber Elimination Rule (a robust outlier test, see lit.5) found it to be an outlier. The laboratories that produced these suspect data were asked to check the results. Additional or corrected data are placed under 'Remarks' in the result tables in appendix 1. A list of abbreviations used in the tables can be found in appendix 3.

3.1 STATISTICS

Statistical calculations were performed as described in the report 'iis Interlaboratory Studies: Protocol for the Organisation, Statistics and Evaluation' of April 2014 (iis-protocol, version 3.3) For the statistical evaluation the *unrounded* (when available) figures were used instead of the rounded results. Results reported as '<... ' or '>... ' were not used in the statistical evaluation.

First, the normality of the distribution of the various data sets per determination was checked by means of the Lilliefors-test a variant of the Kolmogorov-Smirnov test and by the calculation of skewness and kurtosis. Evaluation of the three normality indicators in combination with the visual evaluation of the graphic Kernel density plot, lead to judgement of the normality being either 'unknown', 'OK', 'suspect' or 'not OK'. After removal of outliers, this check was repeated. Not all data sets proved to have a normal distribution, in which cases the statistical evaluation of the results should be used with due care.

According to ISO 5725 (1986 and 1994, lit.8 and 9) the original results per determination were submitted subsequently to Dixon's, Grubbs' and Rosner outlier tests. Outliers are marked by D(0.01) for the Dixon's test, by G(0.01) or DG(0.01) for the Grubbs' test and by R(0.01) for the Rosner General ESD test (ref. 17). Stragglers are marked by D(0.05) for the Dixon's test, by G(0.05) or DG(0.05) for the Grubbs' test and by R(0.05) for the Rosner General ESD test (ref. 17). Both outliers and stragglers were not included in the calculations of averages and standard deviations.

For each assigned value the uncertainty was determined in accordance with ISO13528. Subsequently the calculated uncertainty was evaluated against the respective requirement based on the target reproducibility in accordance with ISO13528. When the uncertainty passed the evaluation no remarks are made in the report. However, when the uncertainty

failed the evaluation it is mentioned in the report and it will have consequences for the evaluation of the test results.

Finally, the reproducibilities were calculated from the standard deviations by multiplying them with a factor of 2.8.

3.2 GRAPHICS

In order to visualise the data against the reproducibilities from literature, Gauss plots were made, using the sorted data for one determination (see appendix 1). On the Y-axis the reported analysis results are plotted. The corresponding laboratory numbers are under the X-axis.

The straight horizontal line presents the consensus value (a trimmed mean). The four striped lines, parallel to the consensus value line, are the +3s, +2s, -2s and -3s target reproducibility limits of the selected standard. Outliers and other data, which were excluded from the calculations, are represented as a cross. Accepted data are represented as a triangle.

Furthermore, Kernel Density Graphs were made. This is a method for producing a smooth density approximation to a set of data that avoids some problems associated with histograms (see appendix 3, nos.13-14). Also a normal Gauss curve was projected over the Kernel Density Graph for reference.

3.3 Z-SCORES

To evaluate the performance of the individual participating laboratories the z-scores were calculated. In order to be able to have an objective evaluation of the performance of the individual participants, it was decided to evaluate this performance against the literature requirements. Therefore, the z-scores were calculated using a target standard deviation.

To validate the concept test method as laid down in EN71-3:2013, an interlaboratory study (ILS) was organized by the Netherlands Food and Consumer Product Safety Authority (NVWA) in 2012. The results from this ILS were evaluated by Quodata (see appendix 3, no.16).

The RSD_R , calculated in this report via method III (after robust elimination of outlier laboratories and using methods according to ISO5725) were used as target standard deviations.

When a laboratory did use a test method with a reproducibility that is significantly different from the reproducibility of the reference test method used in this report, it is strongly advised to recalculate the z-score, while using the reproducibility of the actual test method used, this in order to evaluate the fit-for-useness of the reported test result.

The $z_{(target)}$ -scores were calculated according to:

$$z_{(target)} = (\text{individual result} - \text{average of proficiency test}) / \text{target standard deviation}$$

The $z_{(\text{target})}$ -scores are listed in the result tables in appendix 1.

Absolute values for $z < 2$ are very common and absolute values for $z > 3$ are very rare. The usual interpretation of z-scores is as follows:

- $|z| < 1$ good
- $1 < |z| < 2$ satisfactory
- $2 < |z| < 3$ questionable
- $3 < |z|$ unsatisfactory

4 EVALUATION

During the execution of this proficiency test no problems were encountered. From the 117 participants, 25 participants reported results after the deadline for reporting and 5 participants did not report any test results at all. Finally, the 112 reporting laboratories submitted 1754 numerical results. Observed were 64 outlying results, which is 3.6%. In proficiency studies outlier percentages of 3% - 7.5% are quite normal.

Not for all determinations a normal distribution was found. A not-normal distribution was found in sample #14052 for: cadmium. The statistical evaluation for this determination should be used with care.

4.1 EVALUATION PER SAMPLE AND PER ELEMENT

In this section, the determination is discussed. All statistical results reported on the samples are summarised in appendix 1.

DRIED PAINT Sample #14052:

Aluminium: The migration of aluminium from dried paint on sample #14052, at a level of 880 mg/kg may not be problematic. No statistical outliers were observed. The calculated reproducibility is in good agreement with the target reproducibility based on the data in report "Statistical evaluation of results from round robin on EN71-3:13", ref. 16.

Antimony: The migration of antimony from dried paint on sample #14052, at a level of 51 mg/kg, may not be problematic. Five statistical outliers were observed. However, the calculated reproducibility after rejection of the statistical outliers is in good agreement with the target reproducibility based on the data in report "Statistical evaluation of results from round robin on EN71-3:13", ref. 16.

Arsenic: The migration of arsenic from dried paint on sample #14052, at a level of 38 mg/kg, may not be problematic. Five statistical outliers were observed. However, the calculated reproducibility, after rejection of the statistical outliers, is in good agreement with the target reproducibility based on the data in report "Statistical evaluation of results from round robin on EN71-3:13", ref. 16.

- Cadmium:** The migration of cadmium from dried paint on sample #14052, at a level of 40 mg/kg may not be problematic. Two statistical outliers were observed. However, the calculated reproducibility, after rejection of the statistical outliers, is in good agreement with the target reproducibility based on the data in report "Statistical evaluation of results from round robin on EN71-3:13", ref. 16.
- Manganese:** The migration of manganese from dried paint on sample #14052, at a level of 314 mg/kg may not be problematic. Two statistical outliers were observed. However, the calculated reproducibility, after rejection of the statistical outliers, is in good agreement with the target reproducibility based on the data in report "Statistical evaluation of results from round robin on EN71-3:13", ref. 16.
- Nickel:** The migration of nickel from dried paint on sample #14052, at a level of 246 mg/kg, may not be problematic. No statistical outliers were observed. The calculated reproducibility is in good agreement with the target reproducibility based on the data in report "Statistical evaluation of results from round robin on EN71-3:13", ref. 16.
- Zinc:** The migration of zinc from dried paint on sample #14052, at a level of 404 mg/kg, may not be problematic. Only one statistical outlier was observed. The calculated reproducibility, after rejection of the statistical outlier, is in good agreement with the target reproducibility based on the data in report "Statistical evaluation of results from round robin on EN71-3:13", ref. 16.

PLASTER Sample #14053

- Aluminium:** The migration of aluminium from plaster on sample #14053, at a level of 293 mg/kg may not be problematic. Two statistical outliers were observed. However, the calculated reproducibility, after rejection of the statistical outliers, is in good agreement with the target reproducibility based on the data in report "Statistical evaluation of results from round robin on EN71-3:13", ref. 16.
- Antimony:** The migration of antimony from plaster on sample #14053, at a level of 66 mg/kg may not be problematic. Eleven statistical outliers were observed. However, the calculated reproducibility, after rejection of the statistical outliers, is in good agreement with the target reproducibility based on the data in report "Statistical evaluation of results from round robin on EN71-3:13", ref. 16.
- Lead:** The migration of lead from plaster on sample #14053, at a level of 190 mg/kg may not be problematic. Three statistical outliers were observed. However, the calculated reproducibility, after rejection of the statistical outliers, is in agreement with the target reproducibility based on the data in

report “Statistical evaluation of results from round robin on EN71-3:13”, ref. 16.

Manganese: The migration of manganese from plaster on sample #14053, at a level of 65 mg/kg may not be problematic. Seven statistical outliers were observed. However, the calculated reproducibility after rejection of the statistical outliers is in good agreement with the target reproducibility based on the data in report “Statistical evaluation of results from round robin on EN71-3:13”, ref. 16.

4.2 PERFORMANCE EVALUATION FOR THE GROUP OF LABORATORIES

A comparison has been made between the target reproducibilities based on the report “Statistical evaluation of results from round robin on EN71-3:13”, ref. 16. and the reproducibilities as found for the group of participating laboratories. The number of significant results, the average results, the calculated reproducibilities (standard deviation*2.8) and the target reproducibilities (EN71-3:13) are compared in the next table.

<i>Element</i>	<i>unit</i>	<i>n</i>	<i>average</i>	<i>2.8 * sd</i>	<i>R (target)</i>
Aluminium	mg/kg	100	878	908	1696
Antimony	mg/kg	105	51.2	32.1	87.4
Arsenic	mg/kg	104	38.1	14.4	48.0
Cadmium	mg/kg	108	40.0	14.0	62.7
Manganese	mg/kg	99	314	110	211
Nickel	mg/kg	102	246	96	241
Zinc	mg/kg	99	404	148	486

Table 1: reproducibilities of test results in sample #14052

<i>Element</i>	<i>unit</i>	<i>n</i>	<i>average</i>	<i>2.8 * sd</i>	<i>R (target)</i>
Aluminium	mg/kg	97	293	172	452
Antimony	mg/kg	101	66.0	51.8	72.0
Lead	mg/kg	107	190	95	138
Manganese	mg/kg	93	64.8	21.2	22.1

Table 2: reproducibilities of test results in sample #14053

From the above table it can be concluded that, without statistical calculations, the group of participating laboratories has no difficulties with the determination of the migration of the evaluated elements in plaster and dried paint in accordance with EN71-3:2013 when compared with the target reproducibilities based on the report “Statistical evaluation of results from round robin on EN71-3:13”, ref. 16.

It is to be expected that the validation data of EN71-3 will improve and that smaller target reproducibilities will be published in the near future.

4.3 COMPARISON OF THE PROFICIENCY TEST OF APRIL 2014 WITH PREVIOUS PTS

	<i>April 2014</i>	<i>April 2013</i>	<i>February 2012</i>	<i>March 2011</i>
Number of reporting labs	112	116	113	74
Number of results reported	1754	957	982	716
Statistical outliers	64	41	28	34
Percentage outliers	3.6%	4.3%	2.9%	4.4%

table 3: comparison with previous proficiency tests

In proficiency tests, outlier percentages of 3% - 7.5% are quite normal.

The uncertainties determined in this PT are compared with the relative standard deviations as found in previous years and with the target requirements in the next table:

<i>Element</i>	<i>April 2014 paint</i>	<i>April 2013 paint</i>	<i>February 2012 paint</i>	<i>March 2011 paint</i>	<i>April 2010 paint</i>	<i>Target 1*) dried paint</i>
Aluminium	37%	34%	--	--	--	69%
Antimony	22%	22%	33%	23%	--	61%
Arsenic	14%	16%	--	13%	--	45%
Barium **)	--	--	48-57%	42-76%	20%	22%
Cadmium	12%	13%	--	11-14%	--	56%
Chromium III	--	--	23%	--	6%	29%
Cobalt	--	--	--	18%	--	56%
Copper	--	--	11-12%	--	--	28%
Lead	--	--	22%	18-19%	12-13%	22%
Manganese	13%	15%	--	--	--	24%
Mercury	--	--	--	55%	--	n.a.
Nickel	14%	16%	--	15-18%	--	35%
Selenium	--	--	26%	--	--	51%
Tin	--	--	32-42%	--	--	32%
Zinc	13%	17%	11-39%	--	--	43%

table 4: comparison of the uncertainties in the previous rounds and this PT for Dried Paint

*) From the report 'Statistical evaluation of results from round robin on EN71-3:13', ref. 16.

**) Barium was not spiked but introduced by the plastic matrix used.

<i>Element</i>	<i>April 2014 plaster</i>	<i>April 2013 plaster</i>	<i>Target 2*) plaster</i>
Aluminium	21%	--	55%
Antimony	28%	--	39%
Arsenic	--	--	40%
Barium **)	--	--	29%
Cadmium	--	--	45%
Chromium III	--	--	23%
Cobalt	--	--	16%
Copper	--	22%	23%
Lead	18%	22%	26%
Manganese	12%	--	12%
Mercury	--	--	n.a.
Nickel	--	--	24%
Selenium	--	--	54%
Tin	--	--	37%
Zinc	--	14%	32%

table 5: comparison of the uncertainties in the previous rounds and this PT for plaster

*) From the report 'Statistical evaluation of results from round robin on EN71-3:13', ref. 16.

**) Barium was not spiked but introduced by the plastic matrix used.

It is clear that for the investigated elements the performance of the group is similar to previous years. The performance of the group is good in comparison with the expected precision requirements of EN71-3:2013.

5 DISCUSSION

When the results of this interlaboratory study are compared to the requirements for toys according to EN71-3:2013 (category I for plaster sample #14053 and category III for dried paint sample #14052), which supports essential requirements of EU Directive 2009/48/EC (no longer mentioning analytical corrections to be applied before reporting), then sample #14052 would be rejected by none of the laboratories for aluminium, antimony, manganese, nickel and zinc, by 7 laboratories for Arsenic and 109 (almost all) laboratories for cadmium.

Sample #14053 would be accepted by all laboratories for aluminium, by 13 laboratories for antimony, by 3 laboratories for lead and by all laboratories for manganese.

The maximum migration limits according to EN71-3:2013 are given in table 6.

<i>Element</i>	Migration limits for Dry, brittle, powder like materials mg/kg	Migration limits for scraped off materials mg/kg
Aluminium	5625	70000
Antimony	45	560
Arsenic	3.8	47
Barium	1500	18750
Cadmium	1.3	17
Chromium III	37.5	460
Chromium VI	0.02	0.2
Cobalt	10.5	130
Copper	622.5	7700
Lead	13.5	160
Manganese	1200	15000
Mercury	7.5	94
Nickel	75	930
Selenium	37.5	460
Strontium	4500	56000
Tin	15000	180000
Organic Tin	0.9	12
Zinc	3750	46000

table 6: maximum migration limits in EU according EN71-3:2013 and 2009/48/EN

Samples #14052 was used before in 2013 PT iis13V02:

Parameter	Unit	#13043 in iis13V02			#14052 in iis14V02		
		n	average	uncertainty	n	average	uncertainty
Aluminium	mg/kg	80	849	34%	100	878	37%
Antimony	mg/kg	108	46.6	22%	105	51.2	22%
Arsenic	mg/kg	110	39.6	16%	104	38.1	14%
Cadmium	mg/kg	111	39.1	13%	108	40.0	12%
Manganese	mg/kg	80	310	15%	99	314	13%
Nickel	mg/kg	83	238	16%	102	246	14%
Zinc	mg/kg	81	399	17%	99	404	13%

Table 7: comparison of results (+uncertainties) of identical samples in iis13V02 and iis14V02

For some elements quality improvement is visible. The uncertainties found in the 2014 PT are for a number of elements small in comparison with the uncertainties observed in the previous round in which the sample was used. As the averages found in the 2013 PT are equal to this year's PT, it is proven that the samples are stable for at least a year.

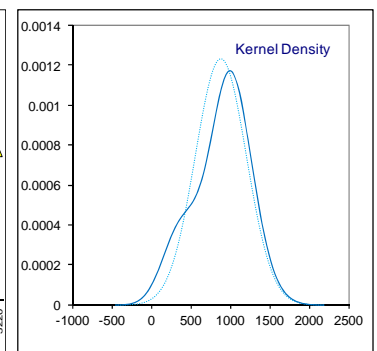
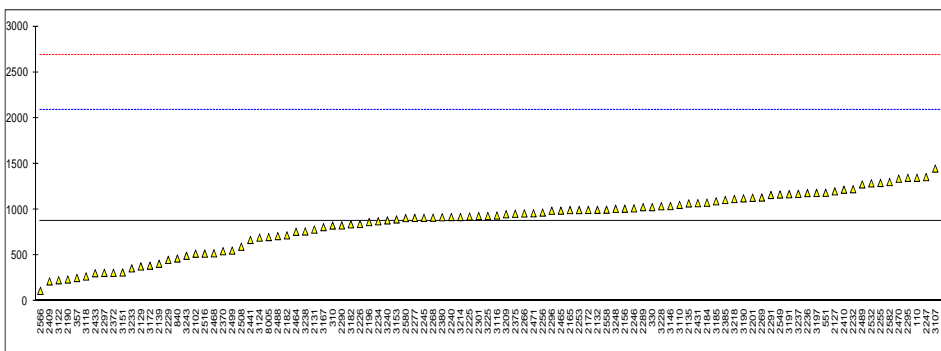
APPENDIX 1**Determination of migration of Aluminium on dried paint sample #14052; results in mg/kg**

lab	method	value	mark	z(targ)	remarks
110	EN71-3	1348		0.78	
310	EN71-3	827.4		-0.08	
330	EN71-3	1028.38		0.25	
357	INH-103	255	C	-1.03	First reported 2238
551	EN71-3	1185		0.51	
840	EN71-3	467.8		-0.68	
2102		520.301		-0.59	
2115		-----		-----	
2127	EN71-3	1200		0.53	
2129	EN71-3	380.93		-0.82	
2131	EN71-3	783.018		-0.16	
2132	EN71-3	998.63		0.20	
2135	EN71-3	1068.8		0.32	
2139		409.7		-0.77	
2156	EN71-3	1011		0.22	
2165	EN71-3	996.2		0.20	
2172	EN71-3	997.8		0.20	
2182	EN71-3	719.97		-0.26	
2184		1076.0		0.33	
2190	EN71-3	238.7		-1.06	
2196	EN71-3	865		-0.02	
2201	EN71-3	1130		0.42	
2225	EN71-3	925.6		0.08	
2226	EN71-3	844.1		-0.06	
2229	EN71-3	452.85		-0.70	
2232		1224		0.57	
2234	EN71-3	873.5		-0.01	
2236	EN71-3	1180.8		0.50	
2240	EN71-3	920.10		0.07	
2245	EN71-3	911.1		0.06	
2246		1015		0.23	
2247	EN71-3	1355.59		0.79	
2251		-----		-----	
2253		996.27		0.20	
2255	EN71-3	1292.0		0.68	
2256		968.8		0.15	
2258		-----		-----	
2266	EN71-3	959.35		0.13	
2268	EN71-3	913.3		0.06	
2269	EN71-3	1133.2		0.42	
2277	EN71-3	910.1		0.05	
2289		1028		0.25	
2290	EN71-3	828.6		-0.08	
2291	EN71-3	1161		0.47	
2293		-----		-----	
2295	EN71-3	1347.51		0.78	
2296	EN71-3	988.977		0.18	
2297	EN71-3	310.3		-0.94	
2301	EN71-3	930.41		0.09	
2370	EN71-3	547		-0.55	
2372	EN71-3	311.3		-0.94	
2375	EN71-3	955.68		0.13	
2380		917.62		0.07	
2385	EN71-3	1106		0.38	
2390		-----		-----	
2391		-----		-----	
2409	EN71-3	217.7		-1.09	
2410		1218.465		0.56	
2413		-----		-----	
2431	EN71-3	1071.391		0.32	
2432		-----		-----	
2433	EN71-3	306.86		-0.94	
2441	EN71-3	670		-0.34	
2442		-----		-----	
2464	EN71-3	759.35		-0.20	
2465	EN71-3	989.9		0.19	
2468	EN71-3	524.25		-0.58	
2469		-----		-----	
2470	EN71-3	1338.4		0.76	
2471	EN71-3	960.90		0.14	
2475		<500		-----	
2488	EN71-3	712.10		-0.27	
2489	EN71-3	1275.89		0.66	
2499	EN71-3	553.86		-0.53	
2508	EN71-3	596.0		-0.47	

2516	EN71-3	520.8	-0.59
2529		-----	-----
2532		1287.5	0.68
2549	EN71-3	1166.42	0.48
2558	EN71-3	1000	0.20
2566	EN71-3	114.28	-1.26
2580	EN71-3	908.3	0.05
2582		1301.7	0.70
2590		-----	-----
2614		-----	-----
3107	EN71-3	1449.1	0.94
3110	EN71-3	1052.94	0.29
3116	EN71-3	936.3	0.10
3118	EN71-3	271.31	-1.00
3122	EN71-3	230	-1.07
3124	EN71-3	696	-0.30
3142		-----	-----
3146	EN71-3	1040	0.27
3151	EN71-3	315.067	-0.93
3153	EN71-3	893.8	0.03
3167	EN71-3	809.9	-0.11
3172	EN71-3	389.0	-0.81
3182	EN71-3	841.00	-0.06
3185	EN71-3	1091.7	0.35
3190	EN71-3	1124	0.41
3191	EN71-3	1169.059	0.48
3197	EN71-3	1183.00	0.50
3199		-----	-----
3209	EN71-3	950.51	0.12
3214		920.1	0.07
3218	EN71-3	1116.5	0.39
3220	EN71-3	1617.8	1.22
3225	EN71-3	931.2	0.09
3228		1038	0.26
3233	EN71-3	360	-0.85
3237		1172.53	0.49
3238	EN71-3	763	-0.19
3240	EN71-3	883.0	0.01
3243	EN71-3	497	-0.63
3248		1010	0.22
3249		-----	-----
8005	EN71-3	701.5	-0.29

C First reported 487.5

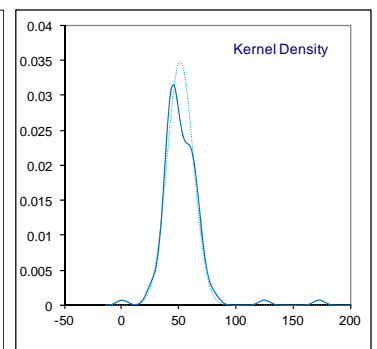
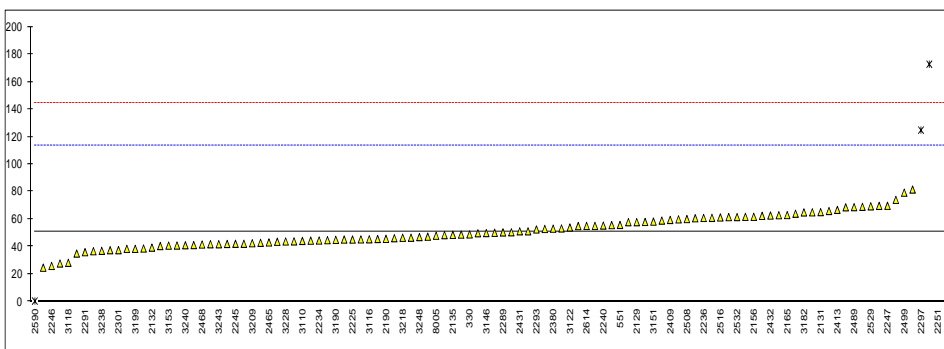
normality OK
n 100
outliers 0
mean (n) 877.63
st.dev. (n) 324.358
R(calc.) 908.20
R(EN71-3:13) 1695.58



Determination of migration of Antimony on dried paint sample #14052; results in mg/kg

lab	method	value	mark	z(targ)	remarks
110	EN71-3	42.8		-0.27	
310	EN71-3	62.45		0.36	
330	EN71-3	48.95		-0.07	
357	INH-103	65	C	0.44	First reported 574
551	EN71-3	55.86		0.15	
840	EN71-3	81.6		0.97	
2102		61.724		0.34	
2115		-----		-----	
2127	EN71-3	61		0.31	
2129	EN71-3	57.86		0.21	
2131	EN71-3	65.174		0.45	
2132	EN71-3	39.35		-0.38	
2135	EN71-3	48.6		-0.08	
2139		53.3		0.07	
2156	EN71-3	61.75		0.34	
2165	EN71-3	63.0		0.38	
2172	EN71-3	45.31		-0.19	
2182	EN71-3	68.65		0.56	
2184		47.29		-0.12	
2190	EN71-3	45.7		-0.18	
2196	EN71-3	42.1		-0.29	
2201	EN71-3	45.20		-0.19	
2225	EN71-3	45.2		-0.19	
2226	EN71-3	41.8		-0.30	
2229	EN71-3	60.70		0.30	
2232		44.76		-0.21	
2234	EN71-3	44.5		-0.21	
2236	EN71-3	60.91		0.31	
2240	EN71-3	55.40		0.14	
2245	EN71-3	42.1		-0.29	
2246		26		-0.81	
2247	EN71-3	69.76		0.60	
2251	INH-300	351.20	R(0.01)	9.61	
2253		46.53		-0.15	
2255	EN71-3	69.7		0.59	
2256		51.2		0.00	
2258	CPSD AN-00003	38.437	C	-0.41	First reported 41.52
2266	EN71-3	559.33	R(0.01)	16.28	
2268	EN71-3	45.6		-0.18	
2269	EN71-3	40.5		-0.34	
2277	EN71-3	38.68		-0.40	
2289		50.4		-0.02	
2290	EN71-3	62.9		0.38	
2291	EN71-3	36		-0.49	
2293	EN71-3	52.52		0.04	
2295	EN71-3	59	C	0.25	First reported 143.616
2296	EN71-3	57.854		0.21	
2297	EN71-3	124.8	R(0.01)	2.36	
2301	EN71-3	37.49		-0.44	
2370	EN71-3	48.8		-0.08	
2372	EN71-3	37.45		-0.44	
2375	EN71-3	50.1		-0.03	
2380		53.12		0.06	
2385	EN71-3	49.8		-0.04	
2390		-----		-----	
2391		-----		-----	
2409	EN71-3	59.50		0.27	
2410		48.430		-0.09	
2413	ASTM F963	66.8		0.50	
2431	EN71-3	51.1788		0.00	
2432	EN71-3	62.70		0.37	
2433	EN71-3	24.75		-0.85	
2441	EN71-3	50.5		-0.02	
2442	in house	61.53		0.33	
2464	EN71-3	27.80		-0.75	
2465	EN71-3	43.1		-0.26	
2468	EN71-3	41.60		-0.31	
2469		-----		-----	
2470	EN71-3	46.2		-0.16	
2471	EN71-3	44.40		-0.22	
2475		<50		-----	
2488	EN71-3	172.72	R(0.01)	3.89	
2489	EN71-3	68.77		0.56	
2499	EN71-3	79.31		0.90	
2508	EN71-3	60.1		0.29	
2516	EN71-3	61.29		0.32	

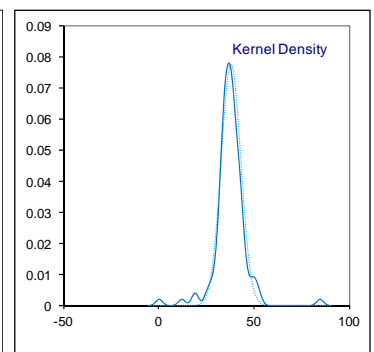
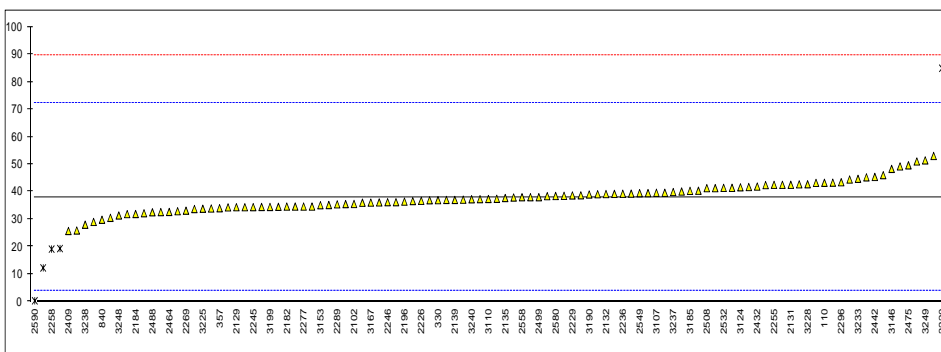
2529	EN71-3	69.39		0.58	
2532		61.56		0.33	
2549	EN71-3	74.06		0.73	
2558	EN71-3	55		0.12	
2566	EN71-3	69.0		0.57	
2580	EN71-3	59.88		0.28	
2582		52.9		0.06	
2590		0.45	C,R(0.01)	-1.62	First reported 8076
2614	EN71-3	55.1		0.13	
3107	EN71-3	35.0		-0.52	
3110	EN71-3	44.22		-0.22	
3116	EN71-3	45.4		-0.19	
3118	EN71-3	28.26		-0.73	
3122	EN71-3	54		0.09	
3124	EN71-3	55.7		0.14	
3142		-----		-----	
3146	EN71-3	49.9		-0.04	
3151	EN71-3	58.278		0.23	
3153	EN71-3	40.8		-0.33	
3167	EN71-3	36.73		-0.46	
3172	EN71-3	58.0		0.22	
3182	EN71-3	64.96	C	0.44	First reported 128.70
3185	EN71-3	43.6		-0.24	
3190	EN71-3	45		-0.20	
3191	EN71-3	40.873		-0.33	
3197	EN71-3	65.97		0.47	
3199	EN71-3	38.44		-0.41	
3209	EN71-3	42.55		-0.28	
3214		43.9	C	-0.23	First reported 59.7
3218	EN71-3	46.5		-0.15	
3220	EN71-3	n.d.	C	-----	False negative result?, First reported 404
3225	EN71-3	42.0		-0.29	
3228		43.81		-0.24	
3233	EN71-3	64		0.41	
3237		55.12		0.13	
3238	EN71-3	37		-0.45	
3240	EN71-3	41.05		-0.32	
3243	EN71-3	41.8		-0.30	
3248		47		-0.13	
3249	in house	41.2		-0.32	
8005	EN71-3	48.0		-0.10	
normality		OK			
n		105			
outliers		5			
mean (n)		51.179			
st.dev. (n)		11.4517			
R(calc.)		32.065			
R(EN71-3:13)		87.414			



Determination of migration of Arsenic on dried paint sample #14052; results in mg/kg

lab	method	value	mark	z(targ)	remarks
110	EN71-3	43.25		0.30	
310	EN71-3	46.03		0.46	
330	EN71-3	36.93		-0.07	
357	INH-103	34	C	-0.24	First reported 295
551	EN71-3	42.68		0.27	
840	EN71-3	29.8		-0.48	
2102		35.534		-0.15	
2115		----		----	
2127	EN71-3	53		0.87	
2129	EN71-3	34.35		-0.22	
2131	EN71-3	42.521		0.26	
2132	EN71-3	39.14		0.06	
2135	EN71-3	37.7		-0.02	
2139		37.0		-0.06	
2156	EN71-3	37.43		-0.04	
2165	EN71-3	36.60		-0.09	
2172	EN71-3	38.01		0.00	
2182	EN71-3	34.59		-0.20	
2184		31.88		-0.36	
2190	EN71-3	<10		<-1.64	False negative result?
2196	EN71-3	36.4		-0.10	
2201	EN71-3	39.20		0.07	
2225	EN71-3	42.4		0.25	
2226	EN71-3	36.7		-0.08	
2229	EN71-3	38.65		0.03	
2232		40.07		0.12	
2234	EN71-3	38.7		0.04	
2236	EN71-3	39.25		0.07	
2240	EN71-3	34.35		-0.22	
2245	EN71-3	34.4		-0.21	
2246		36.2		-0.11	
2247	EN71-3	45.23		0.42	
2251	INH-300	n.d.		----	False negative?
2253		35.16		-0.17	
2255	EN71-3	42.5		0.26	
2256		34.5		-0.21	
2258	CPSD AN-00003	19.120	C,R(0.05)	-1.11	First reported 23.67
2266	EN71-3	34.46		-0.21	
2268	EN71-3	39.5		0.08	
2269	EN71-3	33.1		-0.29	
2277	EN71-3	34.6		-0.20	
2289		35.4		-0.16	
2290	EN71-3	32.9		-0.30	
2291	EN71-3	37		-0.06	
2293	EN71-3	32.17		-0.34	
2295	EN71-3	44.439		0.37	
2296	EN71-3	43.457		0.31	
2297	EN71-3	33.9		-0.24	
2301	EN71-3	37.30		-0.04	
2370	EN71-3	36.2		-0.11	
2372	EN71-3	19.32	R(0.05)	-1.09	
2375	EN71-3	36.1		-0.11	
2380		38.39		0.02	
2385	EN71-3	51.0		0.75	
2390		----		----	
2391		----		----	
2409	EN71-3	25.71		-0.72	
2410		39.608		0.09	
2413	ASTM F963	30.5		-0.44	
2431	EN71-3	37.8999		-0.01	
2432	EN71-3	41.88		0.22	
2433	EN71-3	12.28	R(0.01)	-1.51	
2441	EN71-3	36.9		-0.07	
2442	in house	45.375		0.43	
2464	EN71-3	32.64		-0.32	
2465	EN71-3	34.6		-0.20	
2468	EN71-3	41.71		0.21	
2469		----		----	
2470	EN71-3	37.1		-0.06	
2471	EN71-3	31.85		-0.36	
2475		49.6		0.67	
2488	EN71-3	32.53		-0.32	
2489	EN71-3	39.30		0.07	
2499	EN71-3	38.01		0.00	
2508	EN71-3	41.3		0.19	
2516	EN71-3	39.09		0.06	

2529	EN71-3	41.42		0.20	
2532		41.4		0.19	
2549	EN71-3	39.47		0.08	
2558	EN71-3	38		0.00	
2566	EN71-3	43.2		0.30	
2580	EN71-3	38.44		0.02	
2582		41.3		0.19	
2590		0.32	C,R(0.01)	-2.20	First reported 0.23
2614	EN71-3	34.3		-0.22	
3107	EN71-3	39.6		0.09	
3110	EN71-3	37.36		-0.04	
3116	EN71-3	33.7		-0.26	
3118	EN71-3	n.d.	C	-----	False negative?, First reported 15.14
3122	EN71-3	36		-0.12	
3124	EN71-3	41.6		0.21	
3142		-----		-----	
3146	EN71-3	48.3		0.60	
3151	EN71-3	34.593		-0.20	
3153	EN71-3	35.1		-0.17	
3167	EN71-3	36.04		-0.12	
3172	EN71-3	35.5		-0.15	
3182	EN71-3	49.20		0.65	
3185	EN71-3	40.3		0.13	
3190	EN71-3	39		0.05	
3191	EN71-3	40.351		0.13	
3197	EN71-3	43.29		0.30	
3199	EN71-3	34.46	C	-0.21	First reported 6.69
3209	EN71-3	38.50		0.03	
3214		32.6		-0.32	
3218	EN71-3	42.5		0.26	
3220	EN71-3	84.9	C,R(0.01)	2.73	First reported 74.9
3225	EN71-3	33.8		-0.25	
3228		42.72		0.27	
3233	EN71-3	44.7		0.39	
3237		39.88		0.11	
3238	EN71-3	28		-0.59	
3240	EN71-3	37.25		-0.05	
3243	EN71-3	25.9		-0.71	
3248		31.37		-0.39	
3249	in house	51.4		0.78	
8005	EN71-3	29.0		-0.53	
normality		OK			
n		104			
outliers		5			
mean (n)		38.069			
st.dev. (n)		5.1425			
R(calc.)		14.399			
R(EN71-3:13)		47.967			

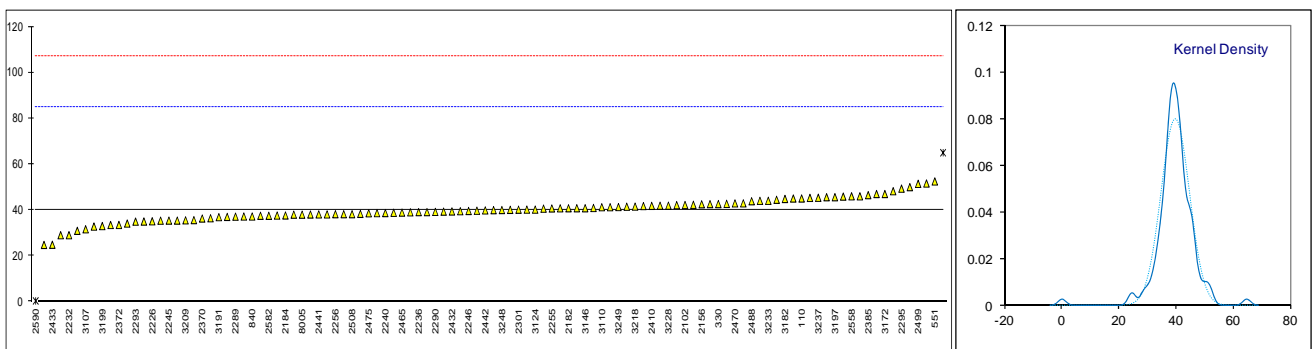


Determination of migration of Cadmium on dried paint sample #14052; results in mg/kg

lab	method	value	mark	z(targ)	Remarks
110	EN71-3	45.05		0.23	
310	EN71-3	40.9		0.04	
330	EN71-3	42.61		0.12	
357	INH-103	47	C	0.31	First reported 415
551	EN71-3	52.49		0.56	
840	EN71-3	37.2		-0.12	
2102		42.194		0.10	
2115		----		----	
2127	EN71-3	50		0.45	
2129	EN71-3	41.71		0.08	
2131	EN71-3	51.58		0.52	
2132	EN71-3	39.48		-0.02	
2135	EN71-3	37.5		-0.11	
2139		38.0		-0.09	
2156	EN71-3	42.53		0.11	
2165	EN71-3	39.96		0.00	
2172	EN71-3	38.33		-0.07	
2182	EN71-3	40.77		0.04	
2184		37.64		-0.10	
2190	EN71-3	<10		<-1.34	False negative result?
2196	EN71-3	38.2		-0.08	
2201	EN71-3	40.80		0.04	
2225	EN71-3	40.1		0.01	
2226	EN71-3	35.1		-0.22	
2229	EN71-3	37.6		-0.11	
2232		29.02		-0.49	
2234	EN71-3	42.6		0.12	
2236	EN71-3	39.10		-0.04	
2240	EN71-3	38.69		-0.06	
2245	EN71-3	35.4		-0.20	
2246		39.6		-0.02	
2247	EN71-3	44.47		0.20	
2251	INH-300	40.76		0.04	
2253		39.32		-0.03	
2255	EN71-3	40.7		0.03	
2256		38.2		-0.08	
2258	CPSD AN-00003	24.771	C	-0.68	First reported 29.51
2266	EN71-3	45.30		0.24	
2268	EN71-3	40.6		0.03	
2269	EN71-3	39.0		-0.04	
2277	EN71-3	35.36		-0.21	
2289		37.1		-0.13	
2290	EN71-3	39.2		-0.03	
2291	EN71-3	37		-0.13	
2293	EN71-3	34.94		-0.22	
2295	EN71-3	49.334		0.42	
2296	EN71-3	45.881		0.26	
2297	EN71-3	38.8		-0.05	
2301	EN71-3	40.16		0.01	
2370	EN71-3	36.3		-0.16	
2372	EN71-3	33.50		-0.29	
2375	EN71-3	39.7		-0.01	
2380		38.05		-0.09	
2385	EN71-3	46.5		0.29	
2390		----		----	
2391		----		----	
2409	EN71-3	45.03		0.23	
2410		41.835		0.08	
2413	ASTM F963	32.8		-0.32	
2431	EN71-3	42.7064		0.12	
2432	EN71-3	39.40		-0.03	
2433	EN71-3	24.86		-0.67	
2441	EN71-3	38.1		-0.08	
2442	in house	39.85		0.00	
2464	EN71-3	30.93		-0.40	
2465	EN71-3	38.9		-0.05	
2468	EN71-3	41.46		0.07	
2469		----		----	
2470	EN71-3	42.9		0.13	
2471	EN71-3	33.47		-0.29	
2475		38.6		-0.06	
2488	EN71-3	43.86		0.17	
2489	EN71-3	41.24		0.06	
2499	EN71-3	51.43		0.51	
2508	EN71-3	38.2		-0.08	
2516	EN71-3	38.65		-0.06	

2529	EN71-3	42.15		0.10	
2532		48.21		0.37	
2549	EN71-3	42.92		0.13	
2558	EN71-3	46		0.27	
2566	EN71-3	42.28		0.10	
2580	EN71-3	44.02		0.18	
2582		37.5		-0.11	
2590		0.33	C,R(0.01)	-1.77	First reported 0.26
2614	EN71-3	40.2		0.01	
3107	EN71-3	31.6		-0.37	
3110	EN71-3	41.22		0.06	
3116	EN71-3	36.4		-0.16	
3118	EN71-3	n.d.	C	-----	False negative? First reported 16.10
3122	EN71-3	35		-0.22	
3124	EN71-3	40.2		0.01	
3142		-----		-----	
3146	EN71-3	40.8		0.04	
3151	EN71-3	45.593		0.25	
3153	EN71-3	34.1		-0.26	
3167	EN71-3	38.10		-0.08	
3172	EN71-3	47.0		0.31	
3182	EN71-3	44.85		0.22	
3185	EN71-3	41.9		0.09	
3190	EN71-3	46		0.27	
3191	EN71-3	36.889		-0.14	
3197	EN71-3	45.61		0.25	
3199	EN71-3	33.00		-0.31	
3209	EN71-3	35.50		-0.20	
3214		35.4		-0.20	
3218	EN71-3	41.5		0.07	
3220	EN71-3	65.0	C,R(0.01)	1.12	First reported 60.9
3225	EN71-3	35.6		-0.19	
3228		41.91		0.09	
3233	EN71-3	44.04		0.18	
3237		45.35		0.24	
3238	EN71-3	29		-0.49	
3240	EN71-3	37.18		-0.12	
3243	EN71-3	39.1		-0.04	
3248		40		0.00	
3249	in house	41.29		0.06	
8005	EN71-3	38.0		-0.09	

normality suspect
n 108
outliers 2
mean (n) 39.960
st.dev. (n) 4.9865
R(calc.) 13.962
R(EN71-3:13) 62.658



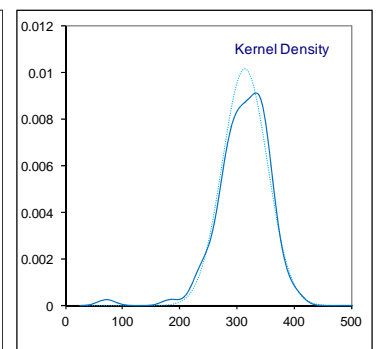
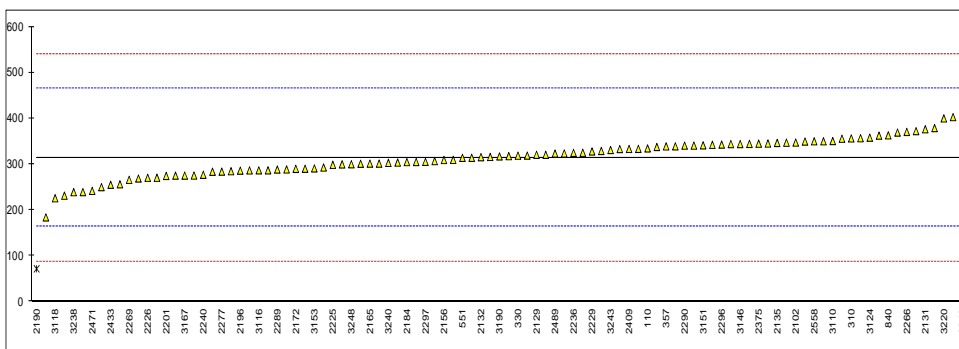
Determination of migration of Manganese on dried paint sample #14052; results in mg/kg

lab	method	value	mark	z(targ)	Remarks
110	EN71-3	334.5		0.28	
310	EN71-3	356.3		0.56	
330	EN71-3	318.64		0.06	
357	INH-103	339	C	0.33	First reported 2974
551	EN71-3	313.91		0.00	
840	EN71-3	363.0		0.65	
2102		347.346		0.45	
2115		-----		-----	
2127	EN71-3	325		0.15	
2129	EN71-3	320.60		0.09	
2131	EN71-3	376.31		0.83	
2132	EN71-3	315.40		0.02	
2135	EN71-3	346.5		0.43	
2139		284.7		-0.39	
2156	EN71-3	309.2		-0.06	
2165	EN71-3	301.3		-0.17	
2172	EN71-3	289.9		-0.32	
2182	EN71-3	315.84		0.03	
2184		304.72		-0.12	
2190	EN71-3	71.7	R(0.01)	-3.21	
2196	EN71-3	286		-0.37	
2201	EN71-3	274.5		-0.52	
2225	EN71-3	298.7		-0.20	
2226	EN71-3	270.4		-0.58	
2229	EN71-3	327.85		0.19	
2232		286.5	C	-0.36	First reported 493.9
2234	EN71-3	299.7		-0.19	
2236	EN71-3	324.8		0.15	
2240	EN71-3	276.95		-0.49	
2245	EN71-3	239.2		-0.99	
2246		314		0.00	
2247	EN71-3	349.5		0.47	
2251		-----		-----	
2253		288.68		-0.33	
2255	EN71-3	345.2		0.42	
2256		275.4		-0.51	
2258		-----		-----	
2266	EN71-3	370.56		0.75	
2268	EN71-3	290.2		-0.31	
2269	EN71-3	265.9		-0.64	
2277	EN71-3	283.9		-0.40	
2289		288.4		-0.34	
2290	EN71-3	340.6		0.36	
2291	EN71-3	250		-0.85	
2293		-----		-----	
2295	EN71-3	402.753		1.18	
2296	EN71-3	342.899		0.39	
2297	EN71-3	305.2		-0.11	
2301	EN71-3	317.67		0.05	
2370	EN71-3	344		0.40	
2372	EN71-3	256.3		-0.76	
2375	EN71-3	344.9		0.41	
2380		292.87		-0.28	
2385	EN71-3	347		0.44	
2390		-----		-----	
2391		-----		-----	
2409	EN71-3	333.3		0.26	
2410		323.530		0.13	
2413		-----		-----	
2431	EN71-3	339.0970		0.34	
2432		-----		-----	
2433	EN71-3	255.18		-0.78	
2441	EN71-3	275.1		-0.51	
2442		-----		-----	
2464	EN71-3	231.42		-1.09	
2465	EN71-3	304.9		-0.12	
2468	EN71-3	300.95		-0.17	
2469		-----		-----	
2470	EN71-3	303.6		-0.14	
2471	EN71-3	241.77		-0.96	
2475		<500		-----	
2488	EN71-3	356.796		0.57	
2489	EN71-3	323.37		0.13	
2499	EN71-3	355.69		0.56	
2508	EN71-3	329.0		0.20	
2516	EN71-3	318.8		0.07	

2529		----		----
2532		333.12		0.26
2549	EN71-3	378.83		0.86
2558	EN71-3	350		0.48
2566	EN71-3	337.71		0.32
2580	EN71-3	344.4		0.41
2582		340.7		0.36
2590		----		----
2614		----		----
3107	EN71-3	372.2		0.78
3110	EN71-3	350.60		0.49
3116	EN71-3	286.7		-0.36
3118	EN71-3	225.8		-1.17
3122	EN71-3	184		-1.72
3124	EN71-3	358		0.59
3142		----		----
3146	EN71-3	344		0.40
3151	EN71-3	341.217		0.36
3153	EN71-3	290.8		-0.31
3167	EN71-3	275.2		-0.51
3172	EN71-3	362.5		0.65
3182	EN71-3	306.79		-0.09
3185	EN71-3	301.4		-0.16
3190	EN71-3	317		0.04
3191	EN71-3	333.524		0.26
3197	EN71-3	342.40		0.38
3199		----		----
3209	EN71-3	309.52		-0.06
3214		283.6		-0.40
3218	EN71-3	270.5		-0.57
3220	EN71-3	400	C	1.14
3225	EN71-3	320.6		0.09
3228		268.9		-0.60
3233	EN71-3	350		0.48
3237		369.15		0.74
3238	EN71-3	239		-0.99
3240	EN71-3	302.9		-0.14
3243	EN71-3	331		0.23
3248		300		-0.18
3249	in house	1246	R(0.01)	12.38
8005	EN71-3	286.7		-0.36

First reported 63.0

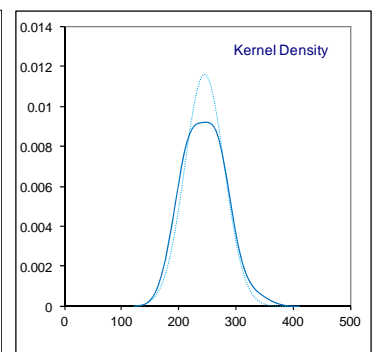
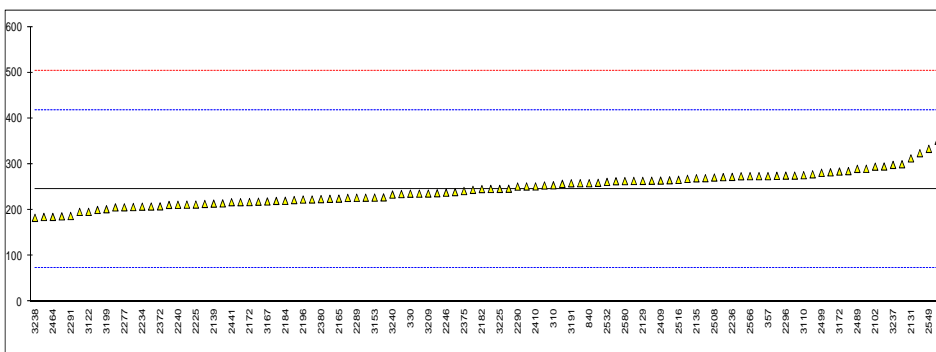
normality OK
n 99
outliers 2
mean (n) 313.78
st.dev. (n) 39.360
R(calc.) 110.21
R(EN71-3:13) 210.86



Determination of migration of Nickel on dried paint sample #14052; results in mg/kg

lab	method	value	mark	z(targ)	remarks
110	EN71-3	269.5		0.28	
310	EN71-3	254.1		0.10	
330	EN71-3	235.76		-0.12	
357	INH-103	274	C	0.33	First reported 2404
551	EN71-3	239.15		-0.08	
840	EN71-3	258.6		0.15	
2102		294.655		0.57	
2115		-----		-----	
2127	EN71-3	285		0.46	
2129	EN71-3	263.66		0.21	
2131	EN71-3	312.787		0.78	
2132	EN71-3	246.45		0.01	
2135	EN71-3	269.3		0.27	
2139		214.0		-0.37	
2156	EN71-3	235.8		-0.12	
2165	EN71-3	224.9		-0.24	
2172	EN71-3	217.4		-0.33	
2182	EN71-3	245.81		0.00	
2184		220.17		-0.30	
2190	EN71-3	<10		<-2.74	False negative result?
2196	EN71-3	223		-0.26	
2201	EN71-3	200.2		-0.53	
2225	EN71-3	212.0		-0.39	
2226	EN71-3	207.7		-0.44	
2229	EN71-3	214.5		-0.36	
2232		351.2		1.23	
2234	EN71-3	207.4		-0.45	
2236	EN71-3	272.4		0.31	
2240	EN71-3	211.47		-0.40	
2245	EN71-3	196.0		-0.58	
2246		238		-0.09	
2247	EN71-3	282.30		0.43	
2251		-----		-----	
2253		224.56		-0.25	
2255	EN71-3	273.8		0.33	
2256		218.2		-0.32	
2258		-----		-----	
2266	EN71-3	275.17		0.34	
2268	EN71-3	211.2		-0.40	
2269	EN71-3	226.9		-0.22	
2277	EN71-3	205.96		-0.46	
2289		226.8		-0.22	
2290	EN71-3	251.2		0.06	
2291	EN71-3	187		-0.68	
2293		-----		-----	
2295	EN71-3	324.122		0.91	
2296	EN71-3	275.088		0.34	
2297	EN71-3	234.9		-0.13	
2301	EN71-3	262.90		0.20	
2370	EN71-3	274		0.33	
2372	EN71-3	208.1		-0.44	
2375	EN71-3	241.5		-0.05	
2380		223.89		-0.25	
2385	EN71-3	264		0.21	
2390		-----		-----	
2391		-----		-----	
2409	EN71-3	264.3		0.22	
2410		251.540		0.07	
2413		-----		-----	
2431	EN71-3	258.5896		0.15	
2432		-----		-----	
2433	EN71-3	205.78		-0.46	
2441	EN71-3	217.2		-0.33	
2442		-----		-----	
2464	EN71-3	185.01		-0.71	
2465	EN71-3	213.3		-0.38	
2468	EN71-3	257.20		0.13	
2469		-----		-----	
2470	EN71-3	217.2		-0.33	
2471	EN71-3	186.23		-0.69	
2475		263.5	C	0.21	First reported 116.3
2488	EN71-3	274.61		0.34	
2489	EN71-3	289.91		0.51	
2499	EN71-3	281.24		0.41	
2508	EN71-3	271.0		0.29	
2516	EN71-3	265.9		0.23	

2529		----	----
2532		261.34	0.18
2549	EN71-3	333.56	1.02
2558	EN71-3	300	0.63
2566	EN71-3	273.92	0.33
2580	EN71-3	263.2	0.20
2582		271.8	0.30
2590		----	----
2614		----	----
3107	EN71-3	253.6	0.09
3110	EN71-3	276.02	0.35
3116	EN71-3	227.6	-0.21
3118	EN71-3	184.9	-0.71
3122	EN71-3	196	-0.58
3124	EN71-3	278	0.38
3142		----	----
3146	EN71-3	268	0.26
3151	EN71-3	259.433	0.16
3153	EN71-3	227.1	-0.22
3167	EN71-3	218.7	-0.31
3172	EN71-3	284.0	0.45
3182	EN71-3	226.49	-0.22
3185	EN71-3	223.1	-0.26
3190	EN71-3	246	0.00
3191	EN71-3	258.447	0.15
3197	EN71-3	251.50	0.07
3199	EN71-3	201.80	-0.51
3209	EN71-3	236.05	-0.11
3214		221.8	-0.28
3218	EN71-3	206.5	-0.46
3220	EN71-3	295	0.57
3225	EN71-3	246.1	0.00
3228		211.8	-0.39
3233	EN71-3	244	-0.02
3237		298.61	0.62
3238	EN71-3	183	-0.73
3240	EN71-3	233.8	-0.14
3243	EN71-3	265	0.22
3248		220	-0.30
3249	in house	290	0.52
8005	EN71-3	236.7	-0.10
normality	OK		
n	102		
outliers	0		
mean (n)	245.70		
st.dev. (n)	34.411		
R(calc.)	96.35		
R(EN71-3:13)	240.79		

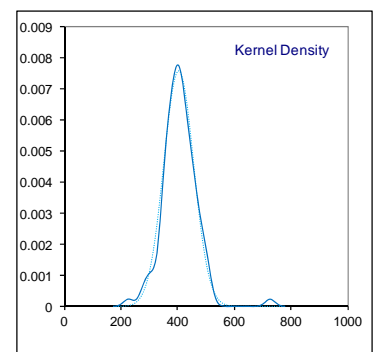
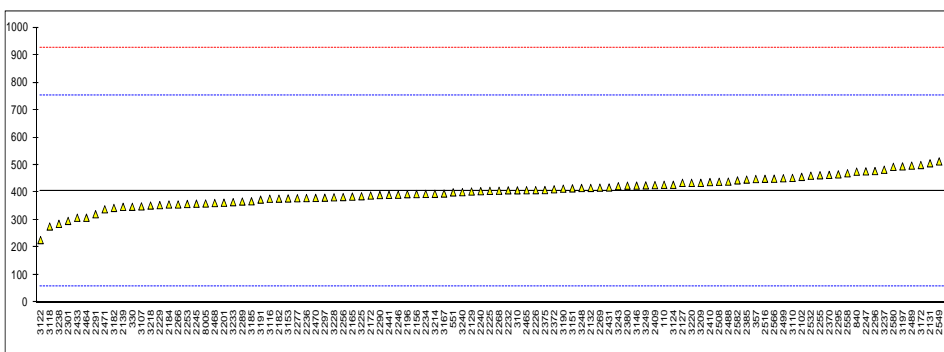


Determination of migration of Zinc on dried paint sample #14052; results in mg/kg

lab	method	value	mark	z(targ)	remarks
110	EN71-3	428		0.14	
310	EN71-3	408.0		0.02	
330	EN71-3	348.02		-0.32	
357	INH-103	449	C	0.26	First reported 3934
551	EN71-3	400.51		-0.02	
840	EN71-3	475.8		0.41	
2102		456.975		0.30	
2115		----		----	
2127	EN71-3	435		0.18	
2129	EN71-3	403.67		0.00	
2131	EN71-3	506.2775		0.59	
2132	EN71-3	416.68		0.07	
2135	EN71-3	726.1	R(0.01)	1.85	
2139		347.7		-0.32	
2156	EN71-3	394.3		-0.06	
2165	EN71-3	385.1		-0.11	
2172	EN71-3	389.0		-0.09	
2182	EN71-3	377.67		-0.15	
2184		356.5		-0.27	
2190	EN71-3	<4		<-2.30	False negative result?
2196	EN71-3	394		-0.06	
2201	EN71-3	362.90		-0.24	
2225	EN71-3	405.9		0.01	
2226	EN71-3	408.6		0.03	
2229	EN71-3	354.1		-0.29	
2232		407.9	C	0.02	First reported 615.2
2234	EN71-3	394.8		-0.05	
2236	EN71-3	379.8		-0.14	
2240	EN71-3	404.85		0.00	
2245	EN71-3	359.3		-0.26	
2246		392		-0.07	
2247	EN71-3	476.85		0.42	
2251		----		----	
2253		358.27		-0.26	
2255	EN71-3	462.8		0.34	
2256		383.4		-0.12	
2258		----		----	
2266	EN71-3	356.57		-0.27	
2268	EN71-3	406.4		0.01	
2269	EN71-3	417.9		0.08	
2277	EN71-3	379.3		-0.14	
2289		367.1		-0.21	
2290	EN71-3	390.9		-0.08	
2291	EN71-3	321		-0.48	
2293		----		----	
2295	EN71-3	466	C	0.36	First reported 592.206
2296	EN71-3	478.009		0.43	
2297	EN71-3	381.2		-0.13	
2301	EN71-3	296.75		-0.62	
2370	EN71-3	464		0.35	
2372	EN71-3	411.9		0.05	
2375	EN71-3	408.9		0.03	
2380		424.89		0.12	
2385	EN71-3	447		0.25	
2390		----		----	
2391		----		----	
2409	EN71-3	427.0		0.13	
2410		437.940		0.20	
2413		----		----	
2431	EN71-3	418.3681		0.08	
2432		----		----	
2433	EN71-3	308.10		-0.55	
2441	EN71-3	391.3		-0.07	
2442		----		----	
2464	EN71-3	308.26		-0.55	
2465	EN71-3	408.2		0.02	
2468	EN71-3	361.8		-0.24	
2469		----		----	
2470	EN71-3	380.4		-0.14	
2471	EN71-3	338.90		-0.37	
2475		<500		----	
2488	EN71-3	439.59		0.20	
2489	EN71-3	497.82		0.54	
2499	EN71-3	451.85		0.28	
2508	EN71-3	439.0		0.20	
2516	EN71-3	449.9		0.26	

2529		----	----
2532		461.14	0.33
2549	EN71-3	513.02	0.63
2558	EN71-3	470	0.38
2566	EN71-3	450.2	0.27
2580	EN71-3	493.3	0.51
2582		444.1	0.23
2590		----	----
2614		----	----
3107	EN71-3	349.4	-0.31
3110	EN71-3	452.94	0.28
3116	EN71-3	377.4	-0.15
3118	EN71-3	276.3	-0.74
3122	EN71-3	227	-1.02
3124	EN71-3	428	0.14
3142		----	----
3146	EN71-3	425	0.12
3151	EN71-3	415.067	0.06
3153	EN71-3	378.4	-0.15
3167	EN71-3	396.3	-0.04
3172	EN71-3	500.0	0.55
3182	EN71-3	343.95	-0.35
3185	EN71-3	368.0	-0.21
3190	EN71-3	414	0.06
3191	EN71-3	374.222	-0.17
3197	EN71-3	494.90	0.52
3199		----	----
3209	EN71-3	435.05	0.18
3214		395.3	-0.05
3218	EN71-3	352.6	-0.30
3220	EN71-3	435	0.18
3225	EN71-3	386.3	-0.10
3228		382.5	-0.12
3233	EN71-3	365	-0.22
3237		482.80	0.45
3238	EN71-3	286	-0.68
3240	EN71-3	401.3	-0.02
3243	EN71-3	423	0.11
3248		416.48	0.07
3249	in house	426	0.13
8005	EN71-3	360.0	-0.25

normality OK
n 99
outliers 1
mean (n) 404.04
st.dev. (n) 52.701
R(calc.) 147.56
R(EN71-3:13) 486.46



Determination of migration of other elements on dried paint sample #14052; results in mg/kg

lab	method	Barium	Chromium	Cobalt	Copper	Lead	Mercury	Selenium
110	EN71-3	<50	10.6	<50	<50	<10	<10	<10
310	EN71-3	4.05	2.408	0.507	1.55	0.243	0	0.005
330	EN71-3	<15	3.01	<2	<2	<1	<0.5	<2
357	INH-103	<10	<0.15	<10	10	<10	----	<10
551	EN71-3	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
840	EN71-3	<50	0.49	<10	<50	<10	<10	<10
2102		0.3898	0.386	0.395	1.334	0.427	n.d.	<0.5
2115		----	----	----	----	----	----	----
2127	EN71-3	2.4	2.6	0.55	1.6	0.39	<0.05	<0.5
2129	EN71-3	0.00	0.386	0.400	1.06	0.205	0.013	0.062
2131	EN71-3	2.1055	0.6005	0.5135	5.0435	0.7725	0	0.0195
2132	EN71-3	3.49	3.96	<1	<1	<1	<1	<1
2135	EN71-3	353.5	2.7	----	5.0	----	----	----
2139		<10	<10	<10	<10	<10	<10	<10
2156	EN71-3	4.057	2.684	0.882	n.d.	n.d.	n.d.	n.d.
2165	EN71-3	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
2172	EN71-3	<5	<5	<1	<5	<5	<5	<5
2182	EN71-3	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
2184		5.14	4.51	<2.5	4.30	<2.5	<1	<2.5
2190	EN71-3	<50	0.37	<10	<50	131.9	<10	<10
2196	EN71-3	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
2201	EN71-3	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	<5.0
2225	EN71-3	<5.0	<5.0	<10.0	<15.0	<5.0	<5.0	<5.0
2226	EN71-3	1.7	3.6	1.6	0	0	0	0
2229	EN71-3	<5	0.3	0.35	<5	<0.2	<0.1	<0.5
2232		<2	2.136	1.038	<2	<0.08	<0.15	<2
2234	EN71-3	<5	<5	<5	<5	<5	<5	<5
2236	EN71-3	2.440	4.754	<2	2.287	<2	<1	<5
2240	EN71-3	<10	<3	<5	<5	<3	<5	<10
2245	EN71-3	3.3	2.6	<5	<25	<2	<2	<5
2246		<25	9.15	<10	<15	<10	<10	<10
2247	EN71-3	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
2251	INH-300	86.80	n.d.	----	----	176.72	n.d.	n.d.
2253		<5	<5	<5	<5	<5	<5	<5
2255	EN71-3	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
2256		<2	<2	<2	<2	<2	<2	<2
2258	CPSD AN-00003	0.0639	0.1811	----	----	0.112	0.4055	-2.4491
2266	EN71-3	3.35	1.458	0.26	0.82	0.49	0.00	0.15
2268	EN71-3	<10	<5	<10	<10	<5	<5	<10
2269	EN71-3	1.9	5.1	0	0	0	0	0
2277	EN71-3	2.66	4.49	1	1.77	0	0	0.301
2289		<10	<10	<10	<10	<10	<10	<10
2290		<10	<10	<10	<10	<10	<10	<10
2291	EN71-3	<5	<5	<5	<5	<5	<1	<5
2293	EN71-3	14.19	3.24	----	----	0	-1.60	-2.47
2295	EN71-3	<10	8.306	<1	<5	<1	n.d.	n.d.
2296	EN71-3	5.04	1.731	0.343	4.043	2.448	1.398	1.672
2297	EN71-3	<5	<5	<5	<5	<5	<5	<5
2301	EN71-3	<2	3.18	<2	2.82	<0.5	<0.15	<2
2370	EN71-3	n.d.	2.02	n.d.	n.d.	n.d.	n.d.	n.d.
2372	EN71-3	n.d.	2.165	n.d.	n.d.	n.d.	n.d.	n.d.
2375		----	3.0	----	----	----	----	----
2380		n.d.	3.28	n.d.	n.d.	n.d.	n.d.	n.d.
2385	EN71-3	2.5	5.1	0.59	1.3	0.51	<0.01	<0.05
2390		----	----	----	----	----	----	----
2391		----	----	----	----	----	----	----
2409	EN71-3	0.742	1.191	0.679	59.0	0.148	0.78	0.063
2410		<5	<5	<5	<5	<5	<2.5	<5
2413		----	----	----	----	----	15.7	----
2431	EN71-3	<5	4.039	<5	<5	<5	<5	<5
2432		----	----	----	----	----	----	----
2433	EN71-3	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
2441		----	----	----	----	----	----	----
2442		----	----	----	----	----	----	----
2464	EN71-3	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
2465	EN71-3	1.8	4.7	0.8	n.d.	n.d.	<1	0.8
2468	EN71-3	<0.2	0.87	0.57	1.53	6.58	0.48	3.26
2469		----	----	----	----	----	----	----
2470	EN71-3	1.6	6.5	<0.7	<0.7	0.8	<0.7	<1.4
2471	EN71-3	1.54	2.71	0.64	1.56	0.00	0.18	0.52
2475		<500	<0.1	<50	<50	<1	<1	<1
2488	EN71-3	<5	<5	<5	<5	<5	<5	<5
2489	EN71-3	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
2499	EN71-3	0.25	0.78	0.58	1.82	n.d.	0.09	n.d.
2508	EN71-3	4.50	1.51	0.25	2.99	0.68	0.18	0.65
2516	EN71-3	<9.97	<24.9	<9.97	<24.9	<24.9	<24.9	<24.9

2529	EN71-3	5.245	0.5214	----	----	1.013	n.d.	1.508
2532		n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
2549	EN71-3	1.54	2.84	0.34	0.88	0.21	0.00	0.38
2558	EN71-3	2.2	1.5	0.51	1.9	0	0	1.8
2566	EN71-3	<2	4.29	<2	2.24	<0.5	<0.15	<2
2580	EN71-3	4.490	2.826	0.7246	5.432	n.d.	n.d.	0.0261
2582		n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
2590		2.6	0.18	----	----	----	7.4	----
2614	EN71-3	n.d.	ND	----	----	n.d.	n.d.	n.d.
3107	EN71-3	61.0	4.3	0.6	2.1	0.7	0.004	0.2
3110	EN71-3	<20	3.94	<5	<5	<5	<5	<5
3116	EN71-3	<2	0.19	<2	<2	<2	<0.25	<2
3118	EN71-3	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
3122	EN71-3	<1	<0.2	<1	<1	<1	0.03	<1
3124	EN71-3	0.581	0.703	0.462	1.73	0.280	0.00336	0.00951
3142		----	----	----	----	----	----	----
3146		----	2.57	----	----	0.270	----	----
3151	EN71-3	0.218	0.406	0.466	1.901	0.229	n.d.	n.d.
3153	EN71-3	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
3167	EN71-3	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
3172	EN71-3	<50	1.03	<10	<50	<10	<10	<10
3182	EN71-3	<10.00	3.41	<0.50	<10.0	<0.50	<0.50	<1.00
3185	EN71-3	<10	<10	<10	<10	<10	<10	<10
3190	EN71-3	<5	<5	<5	<5	<5	<5	<5
3191	EN71-3	7.958	<5	<5	<10	<5	<5	<5
3197	EN71-3	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
3199	EN71-3	6.69	3.12	<5.00	----	<1.00	<1.00	<1.00
3209	EN71-3	<5.0	3.41	<5.0	<50.0	<5.0	<5.0	<5.0
3214		<10	0.63	<10	<10	<10	<10	<10
3218	EN71-3	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
3220	EN71-3	4.89	10.3	0.78	13.2	1.89	n.d.	n.d.
3225	EN71-3	<5	4.32	<5	<5	<5	<5	<5
3228		<2.5	4.07	<2.5	<2.5	<2.5	<2.5	<2.5
3233	EN71-3	n.d.	0.31	n.d.	n.d.	n.d.	n.d.	n.d.
3237		1.68	2.53	0.43	1.74	0.49	n.d.	n.d.
3238	EN71-3	1.32	0.43	0.23	0.62	0.27	----	----
3240	EN71-3	8.903	3.487	n.d.	n.d.	n.d.	n.d.	n.d.
3243	EN71-3	2.00	1.33	0.842	1.11	0.724	0.045	0.192
3248		<10	2	<10	<10	<10	<10	<10
3249	in house	86.6	12.64	----	2.03	<0.5	----	<1
8005	EN71-3	<2	3.78	<2	<2	<2	<0.25	<2
	normality	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
	n	94	104	96	89	102	101	102
	outliers	4	3	0	2	2	1	0
	mean (n)	<10	<10	<10	<10	<10	<10	<10
	st.dev. (n)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
	R(calc.)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
	R(EN71-3:13)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

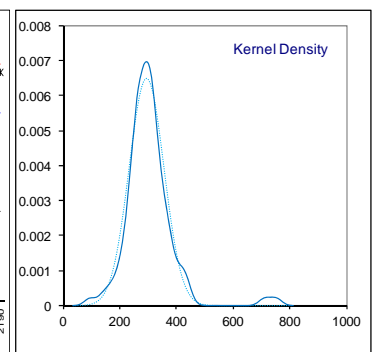
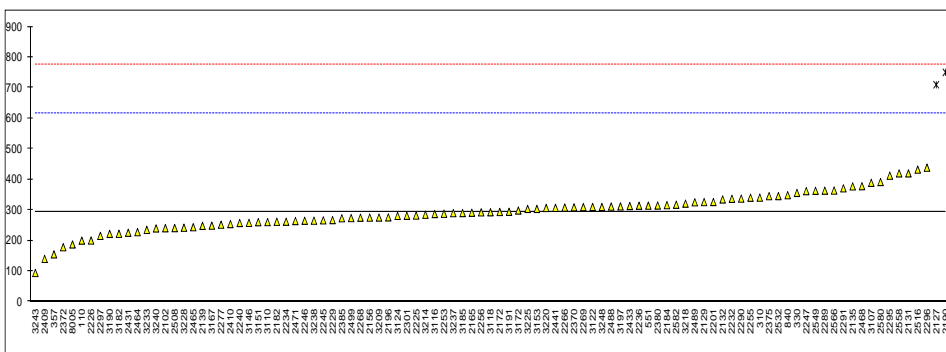
Determination of migration of Aluminium on Plaster sample #14053; results in mg/kg

lab	method	value	mark	z(target)	remarks
110	EN71-3	200		-0.58	
310	EN71-3	340.6		0.29	
330	EN71-3	356.1		0.39	
357	INH-103	155	C	-0.86	First reported 136
551	EN71-3	314.45		0.13	
840	EN71-3	348.7		0.34	
2102		240.475		-0.33	
2115		----		----	
2127	EN71-3	710	C,R(0.01)	2.58	First reported 545
2129	EN71-3	326.02		0.20	
2131	EN71-3	420.019		0.79	
2132	EN71-3	334.78		0.26	
2135	EN71-3	377.5		0.52	
2139		248.3		-0.28	
2156	EN71-3	275.3		-0.11	
2165	EN71-3	291.1		-0.01	
2172	EN71-3	293.6		0.00	
2182	EN71-3	261.67		-0.20	
2184		316.1		0.14	
2190	EN71-3	750.8	R(0.01)	2.84	
2196	EN71-3	276		-0.11	
2201	EN71-3	326.3		0.20	
2225	EN71-3	282.1		-0.07	
2226	EN71-3	200.2		-0.58	
2229	EN71-3	267.05		-0.16	
2232		336.9		0.27	
2234	EN71-3	261.9		-0.19	
2236	EN71-3	314.2		0.13	
2240	EN71-3	257.65		-0.22	
2245	EN71-3	266.2		-0.17	
2246		265		-0.18	
2247	EN71-3	362.0		0.43	
2251		----		----	
2253		287.92		-0.03	
2255	EN71-3	340.4		0.29	
2256		292.4		-0.01	
2258		----		----	
2266	EN71-3	308.27		0.09	
2268	EN71-3	274.9		-0.11	
2269	EN71-3	309.5		0.10	
2277	EN71-3	252.1		-0.26	
2289		363.5		0.44	
2290	EN71-3	337.5		0.27	
2291	EN71-3	371		0.48	
2293		----		----	
2295	EN71-3	412.577		0.74	
2296	EN71-3	438.787		0.90	
2297	EN71-3	215.4		-0.48	
2301	EN71-3	281.31		-0.07	
2370	EN71-3	309		0.10	
2372	EN71-3	178.3		-0.71	
2375	EN71-3	345.5		0.32	
2380		314.88		0.13	
2385	EN71-3	273		-0.13	
2390		----		----	
2391		----		----	
2409	EN71-3	140.0		-0.95	
2410		253.913		-0.24	
2413		----		----	
2431	EN71-3	225.5988		-0.42	
2432		----		----	
2433	EN71-3	313.12		0.12	
2441	EN71-3	307.2		0.09	
2442		----		----	
2464	EN71-3	227.64		-0.41	
2465	EN71-3	243.7		-0.31	
2468	EN71-3	378.2		0.53	
2469		----		----	
2470	EN71-3	<1.2		<-1.81	False negative result?
2471	EN71-3	264.03		-0.18	
2475		<500		----	
2488	EN71-3	311.47		0.11	
2489	EN71-3	325.42		0.20	
2499	EN71-3	273.59		-0.12	
2508	EN71-3	241.0		-0.32	
2516	EN71-3	432.3		0.86	

2529		----	----
2532		345.6	0.32
2549	EN71-3	362.98	0.43
2558	EN71-3	420	0.79
2566	EN71-3	363.82	0.44
2580	EN71-3	391.7	0.61
2582		317.5	0.15
2590		----	----
2614		----	----
3107	EN71-3	389.2	0.59
3110	EN71-3	260.44	-0.20
3116	EN71-3	287.0	-0.04
3118	EN71-3	292.7	0.00
3122	EN71-3	310	0.10
3124	EN71-3	281	-0.08
3142		----	----
3146	EN71-3	258	-0.22
3151	EN71-3	260.383	-0.20
3153	EN71-3	303.8	0.07
3167	EN71-3	248.9	-0.28
3172	EN71-3	298.5	0.03
3182	EN71-3	222.28	-0.44
3185	EN71-3	290.1	-0.02
3190	EN71-3	222	-0.44
3191	EN71-3	294.300	0.01
3197	EN71-3	311.80	0.11
3199		----	----
3209	EN71-3	275.52	-0.11
3214		284.6	-0.05
3218	EN71-3	321.0	0.17
3220	EN71-3	306.78	0.08
3225	EN71-3	303.7	0.06
3228		242.1	-0.32
3233	EN71-3	235	-0.36
3237		289.92	-0.02
3238	EN71-3	265.20	-0.17
3240	EN71-3	239.8	-0.33
3243	EN71-3	94.0	-1.24
3248		310	0.10
3249		----	----
8005	EN71-3	187.5	-0.66

C First reported 117

normality OK
 n 97
 outliers 2
 mean (n) 293.26
 st.dev. (n) 61.573
 R(calc.) 172.41
 R(EN71-3:13) 451.61

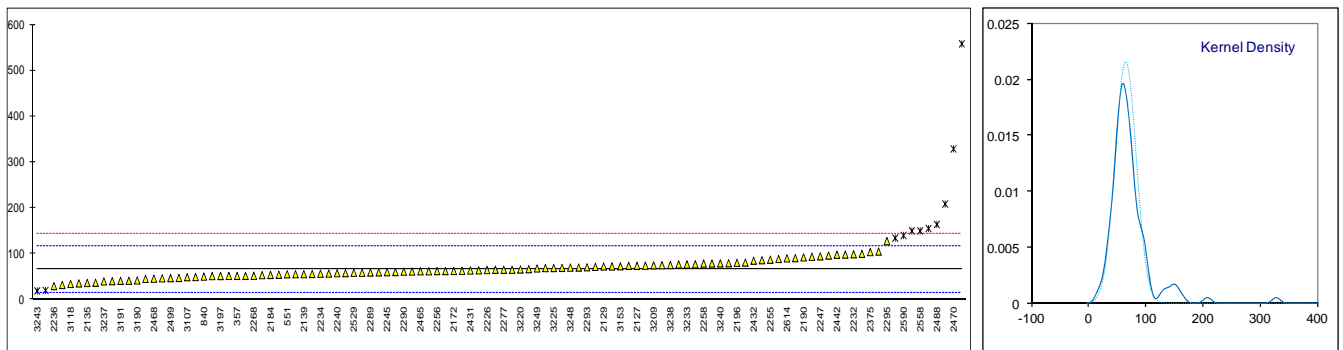


Determination of migration of Antimony on Plaster sample #14053; results in mg/kg

lab	method	value	mark	z(target)	remarks
110	EN71-3	54.5		-0.45	
310	EN71-3	100.1		1.33	
330	EN71-3	155.15	R(0.05)	3.47	
357	INH-103	52	C	-0.54	First reported 45
551	EN71-3	55.47		-0.41	
840	EN71-3	50.5		-0.60	
2102		81.016		0.58	
2115		----		----	
2127	EN71-3	74		0.31	
2129	EN71-3	72.57		0.26	
2131	EN71-3	149.9475	R(0.05)	3.26	
2132	EN71-3	75.25		0.36	
2135	EN71-3	36.5		-1.15	
2139		55.7		-0.40	
2156	EN71-3	88.75		0.88	
2165	EN71-3	58.8		-0.28	
2172	EN71-3	62.61		-0.13	
2182	EN71-3	73.94		0.31	
2184		54.12		-0.46	
2190	EN71-3	92.4		1.03	
2196	EN71-3	80.4		0.56	
2201	EN71-3	62.0		-0.15	
2225	EN71-3	53.5		-0.48	
2226	EN71-3	64.7		-0.05	
2229	EN71-3	32.15		-1.31	
2232		99.19		1.29	
2234	EN71-3	56.7		-0.36	
2236	EN71-3	29.56		-1.42	
2240	EN71-3	57.78		-0.32	
2245	EN71-3	60.1		-0.23	
2246		55.6		-0.40	
2247	EN71-3	94.51		1.11	
2251	INH-300	41.29		-0.96	
2253		62.41		-0.14	
2255	EN71-3	87.3		0.83	
2256		62.4		-0.14	
2258	CPSD AN-00003	78.836	C	0.50	First reported 39.32
2266	EN71-3	558.27	R(0.01)	19.13	
2268	EN71-3	52.2		-0.54	
2269	EN71-3	208.8	R(0.01)	5.55	
2277	EN71-3	65.25		-0.03	
2289		59.3		-0.26	
2290	EN71-3	61.2		-0.19	
2291	EN71-3	77		0.43	
2293	EN71-3	70.79		0.19	
2295	EN71-3	128	C	2.41	First reported 310.694
2296	EN71-3	77.374		0.44	
2297	EN71-3	70.13		0.16	
2301	EN71-3	72.62		0.26	
2370	EN71-3	51.5		-0.56	
2372	EN71-3	45.51		-0.80	
2375	EN71-3	103.9		1.47	
2380		79.63		0.53	
2385	EN71-3	68.9		0.11	
2390		----		----	
2391		----		----	
2409	EN71-3	56.16		-0.38	
2410		98.400		1.26	
2413	ASTM F963	46.6		-0.75	
2431	EN71-3	63.7440		-0.09	
2432	EN71-3	85.15		0.75	
2433	EN71-3	20.06	R(0.05)	-1.78	
2441	EN71-3	78.9		0.50	
2442	in house	98.13		1.25	
2464	EN71-3	40.46		-0.99	
2465	EN71-3	61.9		-0.16	
2468	EN71-3	45.81		-0.78	
2469		----		----	
2470	EN71-3	329.0	R(0.01)	10.22	
2471	EN71-3	49.44		-0.64	
2475		69.5	C	0.14	First reported 155.1
2488	EN71-3	164.16	R(0.05)	3.82	
2489	EN71-3	86.21		0.79	
2499	EN71-3	47.01		-0.74	
2508	EN71-3	105.0		1.52	
2516	EN71-3	35.64		-1.18	

2529	EN71-3	58.78		-0.28	
2532		90.7		0.96	
2549	EN71-3	93.72		1.08	
2558	EN71-3	150	R(0.05)	3.27	
2566	EN71-3	96.27		1.18	
2580	EN71-3	65.24		-0.03	
2582		61.5		-0.17	
2590		140	C,R(0.05)	2.88	First reported 316107
2614	EN71-3	90.3		0.95	
3107	EN71-3	49.2		-0.65	
3110	EN71-3	65.36		-0.02	
3116	EN71-3	66.6		0.02	
3118	EN71-3	34.37		-1.23	
3122	EN71-3	52		-0.54	
3124	EN71-3	74.2		0.32	
3142		----		----	
3146	EN71-3	60.4		-0.22	
3151	EN71-3	47.490		-0.72	
3153	EN71-3	72.9		0.27	
3167	EN71-3	71.63		0.22	
3172	EN71-3	37.0		-1.13	
3182	EN71-3	134.47	C,R(0.05)	2.66	First reported 120.25
3185	EN71-3	57.9		-0.31	
3190	EN71-3	42		-0.93	
3191	EN71-3	41.085		-0.97	
3197	EN71-3	51.66		-0.56	
3199	EN71-3	62.94		-0.12	
3209	EN71-3	75.05		0.35	
3214		64.1		-0.07	
3218	EN71-3	59.6		-0.25	
3220	EN71-3	66	C	0.00	First reported 300
3225	EN71-3	69.1		0.12	
3228		51.83		-0.55	
3233	EN71-3	77		0.43	
3237		39.94		-1.01	
3238	EN71-3	75.53		0.37	
3240	EN71-3	79.22		0.51	
3243	EN71-3	19.1	R(0.05)	-1.82	
3248		70		0.16	
3249	in house	68.2		0.09	
8005	EN71-3	57.0		-0.35	

normality OK
n 101
outliers 11
mean (n) 65.978
st.dev. (n) 18.4898
R(calc.) 51.772
R(EN71-3:13) 72.048

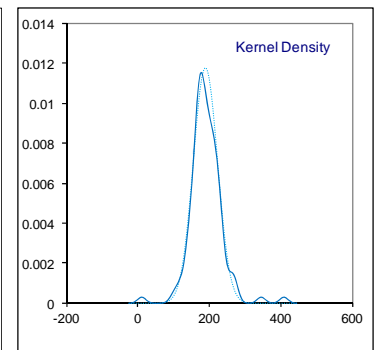
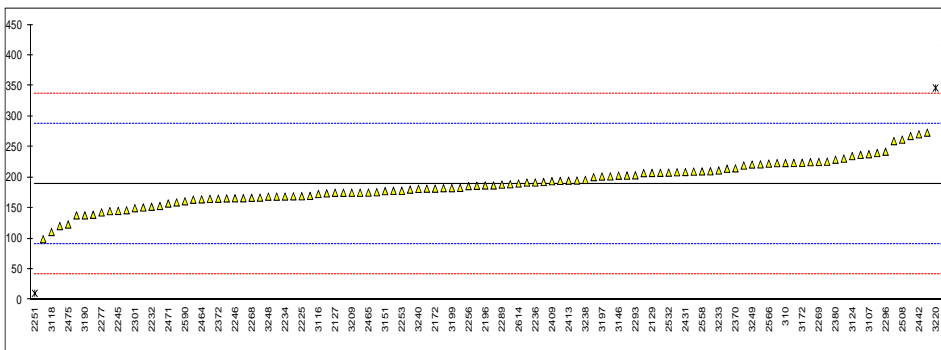


Determination of migration of Lead on Plaster sample #14053; results in mg/kg

lab	method	value	mark	z(target)	remarks
110	EN71-3	182.5		-0.14	
310	EN71-3	223.7		0.69	
330	EN71-3	267.9		1.59	
357	INH-103	99	C	-1.84	First reported 87
551	EN71-3	165.15		-0.50	
840	EN71-3	195.1		0.11	
2102		192.604		0.06	
2115		-----		-----	
2127	EN71-3	175		-0.30	
2129	EN71-3	207.47		0.36	
2131	EN71-3	214.335		0.50	
2132	EN71-3	175.88		-0.28	
2135	EN71-3	159.2		-0.62	
2139		145.0		-0.90	
2156	EN71-3	181.7		-0.16	
2165	EN71-3	178.2		-0.23	
2172	EN71-3	181.8		-0.16	
2182	EN71-3	n.d.		-----	False negative result?
2184		153.47		-0.73	
2190	EN71-3	<10		<-3.64	False negative result?
2196	EN71-3	187		-0.05	
2201	EN71-3	175.0		-0.30	
2225	EN71-3	169.3		-0.41	
2226	EN71-3	223.8		0.69	
2229	EN71-3	151.0		-0.78	
2232		152.1		-0.76	
2234	EN71-3	168.9		-0.42	
2236	EN71-3	191.9		0.05	
2240	EN71-3	166.09		-0.48	
2245	EN71-3	145.4		-0.90	
2246		166		-0.48	
2247	EN71-3	225.10		0.72	
2251	INH-300	10.38	R(0.01)	-3.64	
2253		178.26		-0.23	
2255	EN71-3	210.2		0.42	
2256		185.9		-0.07	
2258	CPSD AN-00003	273.40	C	1.70	First reported 169.68
2266	EN71-3	209.661		0.41	
2268	EN71-3	166.8		-0.46	
2269	EN71-3	225.4		0.73	
2277	EN71-3	142.9		-0.95	
2289		188.4		-0.02	
2290	EN71-3	169.2		-0.41	
2291	EN71-3	183		-0.13	
2293	EN71-3	203.55		0.28	
2295	EN71-3	189	C	-0.01	First reported 306.168
2296	EN71-3	242.243		1.07	
2297	EN71-3	174	C	-0.32	First reported 74.23
2301	EN71-3	149.83		-0.81	
2370	EN71-3	215		0.52	
2372	EN71-3	165.2		-0.49	
2375	EN71-3	225.9		0.74	
2380		229.18		0.80	
2385	EN71-3	187		-0.05	
2390		-----		-----	
2391		-----		-----	
2409	EN71-3	193.9		0.09	
2410		207.195		0.36	
2413	ASTM F963	194.8		0.11	
2431	EN71-3	208.9728		0.39	
2432	EN71-3	230.91		0.84	
2433	EN71-3	120.5		-1.40	
2441	EN71-3	186.5		-0.06	
2442	in house	270.71		1.65	
2464	EN71-3	164.25		-0.51	
2465	EN71-3	175.4		-0.29	
2468	EN71-3	259.6		1.42	
2469		-----		-----	
2470	EN71-3	410.3	R(0.01)	4.48	
2471	EN71-3	157.45		-0.65	
2475		123.1		-1.35	
2488	EN71-3	163.74		-0.52	
2489	EN71-3	219.6		0.61	
2499	EN71-3	194.47		0.10	
2508	EN71-3	262.0		1.47	
2516	EN71-3	207.7		0.37	

2529	EN71-3	138.0		-1.05	
2532		208		0.37	
2549	EN71-3	223.57		0.69	
2558	EN71-3	210		0.41	
2566	EN71-3	222.80		0.67	
2580	EN71-3	221.5		0.65	
2582		237.1		0.96	
2590		161	C	-0.58	First reported 17.4
2614	EN71-3	190.2		0.01	
3107	EN71-3	238.1		0.99	
3110	EN71-3	200.57		0.22	
3116	EN71-3	173.0		-0.34	
3118	EN71-3	110.7		-1.60	
3122	EN71-3	240		1.02	
3124	EN71-3	235		0.92	
3142		----		----	
3146	EN71-3	203		0.27	
3151	EN71-3	177.667		-0.24	
3153	EN71-3	191.8		0.05	
3167	EN71-3	180.2		-0.19	
3172	EN71-3	224.0		0.70	
3182	EN71-3	208.56		0.39	
3185	EN71-3	175.1		-0.29	
3190	EN71-3	138		-1.05	
3191	EN71-3	169.949		-0.40	
3197	EN71-3	201.60		0.24	
3199	EN71-3	182.60		-0.14	
3209	EN71-3	175.05		-0.29	
3214		168.7		-0.42	
3218	EN71-3	165.8		-0.48	
3220	EN71-3	346.5	C,R(0.01)	3.18	First reported 69
3225	EN71-3	201.8		0.25	
3228		167.1		-0.46	
3233	EN71-3	211.50		0.45	
3237		203.04		0.27	
3238	EN71-3	196.01		0.13	
3240	EN71-3	181.4		-0.17	
3243	EN71-3	139		-1.03	
3248		168.68		-0.42	
3249	in house	221.3		0.64	
8005	EN71-3	146.4		-0.88	

normality OK
n 107
outliers 3
mean (n) 189.55
st.dev. (n) 33.957
R(calc.) 95.08
R(EN71-3:13) 137.99

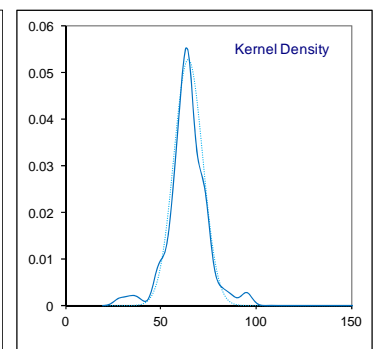
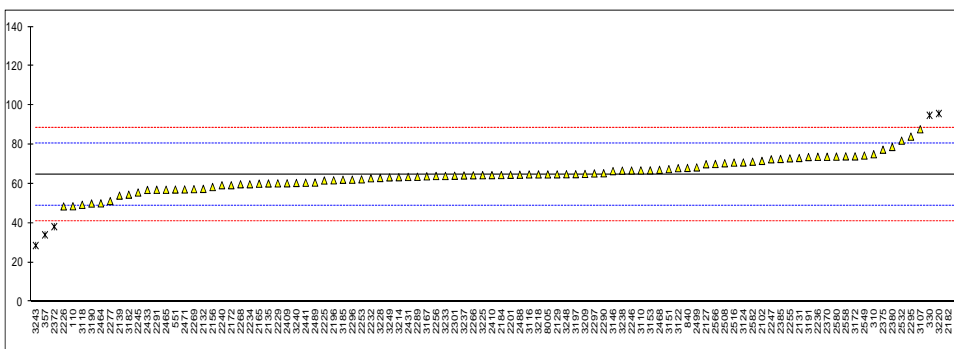


Determination of migration of Manganese on Plaster sample #14053; results in mg/kg

lab	method	value	mark	z(targ)	remarks
110	EN71-3	48.6		-2.05	
310	EN71-3	75.08		1.30	
330	EN71-3	94.9	R(0.05)	3.81	
357	INH-103	34	C,R(0.05)	-3.89	First reported 29
551	EN71-3	57.11		-0.97	
840	EN71-3	68.1		0.42	
2102		71.694		0.87	
2115		----		----	
2127	EN71-3	70		0.66	
2129	EN71-3	64.861		0.01	
2131	EN71-3	73.1745		1.06	
2132	EN71-3	57.46		-0.93	
2135	EN71-3	60.2		-0.58	
2139		54.0		-1.36	
2156	EN71-3	58.38		-0.81	
2165	EN71-3	60.1		-0.59	
2172	EN71-3	59.32		-0.69	
2182	EN71-3	197.70	R(0.01)	16.82	
2184		64.48		-0.04	
2190	EN71-3	295.7	R(0.01)	29.22	
2196	EN71-3	61.8		-0.38	
2201	EN71-3	64.6		-0.02	
2225	EN71-3	61.7		-0.39	
2226	EN71-3	48.5		-2.06	
2229	EN71-3	60.25		-0.57	
2232		62.85		-0.24	
2234	EN71-3	59.8		-0.63	
2236	EN71-3	73.78		1.14	
2240	EN71-3	59.32		-0.69	
2245	EN71-3	55.6		-1.16	
2246		66.8		0.25	
2247	EN71-3	72.5		0.98	
2251		----		----	
2253		62.27		-0.32	
2255	EN71-3	73.0		1.04	
2256		64.0		-0.10	
2258		----		----	
2266	EN71-3	64.37		-0.05	
2268	EN71-3	59.8		-0.63	
2269	EN71-3	57.3		-0.95	
2277	EN71-3	51.25		-1.71	
2289		63.6		-0.15	
2290	EN71-3	65.4		0.08	
2291	EN71-3	57		-0.98	
2293		----		----	
2295	EN71-3	84.062		2.44	
2296	EN71-3	62.128		-0.34	
2297	EN71-3	65.31		0.07	
2301	EN71-3	64.13		-0.08	
2370	EN71-3	73.8		1.14	
2372	EN71-3	38.20	R(0.05)	-3.36	
2375	EN71-3	77.4		1.60	
2380		78.8		1.77	
2385	EN71-3	72.7		1.00	
2390		----		----	
2391		----		----	
2409	EN71-3	60.30	C	-0.57	First reported 42.26
2410		64.438		-0.04	
2413		----		----	
2431	EN71-3	63.5127		-0.16	
2432		----		----	
2433	EN71-3	56.90		-1.00	
2441	EN71-3	60.6		-0.53	
2442		----		----	
2464	EN71-3	50.07		-1.86	
2465	EN71-3	57.0		-0.98	
2468	EN71-3	67.15		0.30	
2469		----		----	
2470	EN71-3	<0.6		<-8.12	False negative result?
2471	EN71-3	57.15		-0.97	
2475		<50		----	
2488	EN71-3	64.65		-0.02	
2489	EN71-3	60.67		-0.52	
2499	EN71-3	68.37		0.45	
2508	EN71-3	70.5		0.72	
2516	EN71-3	70.85		0.77	

2529		----	----
2532		82	2.18
2549	EN71-3	74.42	1.22
2558	EN71-3	74	1.17
2566	EN71-3	70.13	0.68
2580	EN71-3	73.87	1.15
2582		71.3	0.82
2590		----	First reported 91.3
2614		----	----
3107	EN71-3	87.8	2.91
3110	EN71-3	66.86	0.26
3116	EN71-3	64.8	0.00
3118	EN71-3	49.34	-1.95
3122	EN71-3	68	0.41
3124	EN71-3	70.9	0.77
3142		----	----
3146	EN71-3	66.5	0.22
3151	EN71-3	67.494	0.34
3153	EN71-3	66.9	0.27
3167	EN71-3	63.83	-0.12
3172	EN71-3	74.0	1.17
3182	EN71-3	54.49	-1.30
3185	EN71-3	62.1	-0.34
3190	EN71-3	50	-1.87
3191	EN71-3	73.651	1.12
3197	EN71-3	64.93	0.02
3199		----	----
3209	EN71-3	65.05	0.03
3214		63.4	-0.18
3218	EN71-3	64.8	0.00
3220	EN71-3	95.8	3.92
3225	EN71-3	64.4	-0.05
3228		63.0	-0.23
3233	EN71-3	64	-0.10
3237		64.28	-0.06
3238	EN71-3	66.74	0.25
3240	EN71-3	60.45	-0.55
3243	EN71-3	28.6	-4.58
3248		64.89	0.01
3249	in house	63.3	-0.19
8005	EN71-3	64.8	0.00

normality OK
n 93
outliers 7
mean (n) 64.785
st.dev. (n) 7.5687
R(calc.) 21.192
R(EN71-3:13) 22.130



Determination of migration of other elements on Plaster sample #14053; results in mg/kg

lab	method	Arsenic	Barium	Cadmium	Chromium	Cobalt	Copper	Mercury	Nickel	Selenium	Zinc
110	EN71-3	<10	<50	<10	0.371	<50	<50	<10	<10	<10	<50
310	EN71-3	0.466	4.233	0.105	0.528	0.245	0.497	0	0.316	0.484	3.224
330	EN71-3	0.588	<15	<0.2	0.627	<2	<2	<0.5	<2	<2	<15
357	INH-103	<10	<10	<5	0.28	<10	<10	----	<10	<10	<10
551	EN71-3	n.d.	3.49	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
840	EN71-3	<0.5	<50	<0.3	0.99	<0.5	<50	<0.5	<10	<50	<50
2102		0.307	4.893	<0.125	0.356	<0.125	0.203	n.d.	0.211	0.573	2.101
2115		----	----	----	----	----	----	----	----	----	----
2127	EN71-3	0.69	5.6	0.15	0.5	0.28	0.47	<0.05	0.46	0.54	2.9
2129	EN71-3	0.485	3.42	0.108	0.470	0.258	0.091	0.014	0.292	0.574	3.18
2131	EN71-3	0.537	6.526	0.1615	1.3405	0.2825	5.3745	0.005	0.702	0.7003	7.7225
2132	EN71-3	<1	3.47	<1	<0.1	<1	<1	<1	<1	<1	<1
2135	EN71-3	----	82.1	----	----	----	1.9	----	1.5	----	318.4
2139		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2156	EN71-3	n.d.	5.480	n.d.	0.792	0.341	2.283	n.d.	0.276	n.d.	2.978
2165	EN71-3	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
2172	EN71-3	<2.5	<5	<1	<5	<1	<5	<5	<5	<5	<5
2182	EN71-3	n.d.	n.d.	n.d.	0.43	n.d.	n.d.	66.57	n.d.	n.d.	n.d.
2184		<0.5	2.87	0.18	<1	<0.5	<2.5	<0.5	<2.5	<2.5	11.9
2190	EN71-3	36.9	<50	31.5	1.7	<10	<50	<10	186.1	<10	332.5
2196	EN71-3	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
2201	EN71-3	<1.0	<5.0	<1.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<5.0
2225	EN71-3	<1.5	<5.0	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2226	EN71-3	0	3.9	0	0.6	0	0	0	0	0	8.4
2229	EN71-3	<0.5	<5	0.085	0.4	<0.2	<5	<0.1	<0.5	0.55	<5
2232		3.218	3.617	<2	<2	0.6682	<2	<0.15	<2	<2	<2
2234	EN71-3	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
2236	EN71-3	4.086	3.414	<2	<2	<2	<2	<1	4.146	9.694	<5
2240	EN71-3	<3	<10	<3	<3	<5	<5	<5	<5	<10	<10
2245	EN71-3	<2	3.8	<2	<2	<5	<25	<2	<25	<5	<25
2246		<12.5	<25	<5	<12.5	<10	<15	<12.5	<10	<12.5	<250
2247	EN71-3	n.d.	4.86	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
2251	INH-300	n.d.	71.24	0.35	n.d.	----	----	n.d.	----	n.d.	----
2253		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
2255	EN71-3	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
2256		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
2258	CPSD AN-00003	-0.1942	10.692	-0.1097	0.4874	----	----	-0.4826	----	-17.219	----
2266	EN71-3	0.193	4.27	0.095	0.1484	0.099	0.149	0	0.17	0.336	0.62
2268	EN71-3	<2.5	<10	<2	<5	<10	<10	<5	<10	<10	<10
2269	EN71-3	0	8.7	0	2.1	0	0	0	0	0	14.5
2277	EN71-3	0	3.30	0.16	0.67	0.23	0	0	0.29	0.36	7.92
2289		<1.0	<10	<0.5	<10	<1.0	<10	<1.0	<10	<5	<100
2290	EN71-3	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2291	EN71-3	<1	<5	<0.5	<5	<5	<5	<1	<5	<5	<5
2293	EN71-3	-0.28	3.87	0.12	0.65	----	----	-1.69	----	-3.78	----
2295	EN71-3	0.752	n.d.	n.d.	<5	<1	<5	n.d.	<5	<5	<10
2296	EN71-3	1.114	11.733	0.288	0.554	0.001	0.000	0.000	2.083	2.505	7.818
2297	EN71-3	<5	5.01	<5	<5	<5	<5	<5	<5	<5	<5
2301	EN71-3	<2	5.66	<2	<2	<2	3.32	<0.15	3.97	<2	2.69
2370	EN71-3	n.d.	n.d.	n.d.	1.35	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
2372	EN71-3	n.d.	n.d.	n.d.	0.281	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
2375		----	----	----	0.6	----	----	----	----	----	----
2380		n.d.	n.d.	n.d.	0.623	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
2385	EN71-3	0.51	4.6	0.15	0.54	0.26	<0.5	<0.01	0.30	0.49	5.4
2390		----	----	----	----	----	----	----	----	----	----
2391		----	----	----	----	----	----	----	----	----	----
2409	EN71-3	3.905	3.513	0.189	1.015	0.246	0.258	7.491	1.358	0.251	3.024
2410		<2.5	5.725	<2.5	<5	<5	<5	<2.5	<5	<5	<5
2413		----	----	----	----	----	----	12.9	----	----	----
2431	EN71-3	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
2432		----	----	----	----	----	----	----	----	----	----
2433	EN71-3	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
2441		----	----	----	----	----	----	----	----	----	----
2442		----	----	----	----	----	----	----	----	----	----
2464	EN71-3	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
2465	EN71-3	n.d.	3.6	<1	<1	<1	n.d.	<1	<1	<1	5.3
2468	EN71-3	0.111	3.574	<0.1	0.247	0.245	0.462	1.589	0.246	<3	3.273
2469		----	----	----	----	----	----	----	----	----	----
2470	EN71-3	<1.2	11.8	<0.12	8.9	<0.7	<0.7	<0.6	<0.6	<1.2	<1.2
2471	EN71-3	0.36	4.27	0.13	0.43	0.23	0.59	0.20	0.25	0.58	5.67
2475		<0.5	<500	<0.1	0.23	<1	<50	<1	<1	<1	<500
2488	EN71-3	<5	7.31	<5	<5	<5	<5	<5	<5	<5	47.52
2489	EN71-3	n.d.	4.62	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
2499	EN71-3	n.d.	4.18	0.19	0.71	0.43	n.d.	0.06	0.60	n.d.	4.29
2508	EN71-3	<0.1	11.3	<0.05	1.71	<0.05	1.63	0.016	<0.05	<0.1	3.65

2516	EN71-3	<24.9	<9.97	<9.97	<24.9	<9.97	<24.9	<24.9	<9.97	<24.9	<9.97
2529	EN71-3	0.6897	9.496	n.d.	0.3475	-----	-----	n.d.	-----	0.9190	-----
2532		n.d.	4.58	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
2549	EN71-3	0.45	2.54	0.08	0.34	0.17	0.13	0.00	0.33	0.40	1.03
2558	EN71-3	1.4	5.7	0.14	0.6	0.37	1	0	0	1.4	4
2566	EN71-3	0.8	4.38	<0.15	0.44	<2	<2	<0.15	<2	<2	<2
2580	EN71-3	0.0762	3.473	0.1166	0.5245	n.d.	0.6110	n.d.	0.3934	0.3686	5.268
2582		n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
2590		-----	2.8	-----	0.85	-----	-----	5.3	-----	-----	-----
2614	EN71-3	n.d.	n.d.	n.d.	n.d.	-----	-----	n.d.	-----	n.d.	-----
3107	EN71-3	0.6	6.5	0.1	0.7	0.3	0.6	0.005	2.3	0.7	3.6
3110	EN71-3	0.47	<20	<0.2	0.60	0.29	<5	<0.2	<5	<5	<100
3116	EN71-3	<0.15	4.50	<0.15	0.37	<2	<2	<0.15	<2	<2	2.75
3118	EN71-3	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
3122	EN71-3	2	4	<1	0.6	<1	<1	0.02	<1	<1	1
3124	EN71-3	0.381	4.01	0.155	0.497	0.278	1.10	0.00138	0.309	0.455	2.54
3142		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
3146		0.250	-----	0.121	0.602	-----	-----	-----	-----	-----	-----
3151	EN71-3	0.576	3.839	0.124	0.511	0.276	0.374	n.d.	0.329	n.d.	3.425
3153	EN71-3	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
3167	EN71-3	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
3172	EN71-3	<1	<50	0.18	<10	<5	<50	<5	<10	<10	<50
3182	EN71-3	0.62	<10.00	<0.10	1.16	<0.50	<10.00	<0.50	<1.00	<1.00	<10.00
3185	EN71-3	<1.0	<10	<0.5	<10	<1.0	<10	<1.0	<10	<5	<100
3190	EN71-3	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
3191	EN71-3	0.633	<5	<0.1	<5	<1	<10	<1	<5	<1	<50
3197	EN71-3	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
3199	EN71-3	<1.00	4.19	<1.00	1.35	<5.00	-----	<1.00	<10.00	<1.00	-----
3209	EN71-3	<1.0	<5.0	<1.0	0.453	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
3214		<1	<10	<0.5	0.38	<1	<10	<1	<10	<5	<100
3218	EN71-3	<1.0	<10.0	<0.5	<10.0	<1.0	<10	<1.0	<10.0	<5.0	<10.0
3220	EN71-3	n.d.	58	n.d.	8.58	1.0	3.0	n.d.	7.88	1.0	17.0
3225	EN71-3	-----	<5	<5	-----	<5	<5	<5.0	<5.0	<5	<5
3228		<0.5	3.48	<0.1	0.517	<0.5	<2.5	<0.5	<2.5	<2.5	<10
3233	EN71-3	0.53	n.d.	0.12	0.577	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
3237		0.45	6.50	n.d.	0.77	0.22	1.94	n.d.	0.32	0.48	2.59
3238	EN71-3	0.24	4.27	0.09	0.26	0.15	0.19	-----	0.15	0.31	1.51
3240	EN71-3	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	ND	n.d.
3243	EN71-3	n.d.	2.86	0.107	0.191	0.068	0.658	0.106	n.d.	0.288	3.0
3248		<1	<10	<0.1	0.32	<1	<10	<1	<10	<10	<10
3249	in house	1.647	65.1	0.1128	2.26	-----	0.986	-----	<3	<1	-----
8005	EN71-3	<0.15	4.50	<0.15	0.37	<2	<2	<0.15	<2	<2	2.75
	normality	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
	n	101	90	104	104	97	93	99	98	101	80
	outliers	1	7	1	0	0	0	2	1	1	6
	mean (n)	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	st.dev. (n)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
	R(calc.)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
	R(EN71-3:13)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

APPENDIX 2

Number of participants per country

3 labs in BANGLADESH
2 labs in BRAZIL
1 lab in CANADA
1 lab in DENMARK
1 lab in FINLAND
6 labs in FRANCE
10 labs in GERMANY
2 labs in GUATEMALA
12 labs in HONG KONG
1 lab in HUNGARY
7 labs in INDIA
3 labs in INDONESIA
5 labs in ITALY
1 lab in JAPAN
2 labs in KOREA
1 lab in MALAYSIA
24 labs in P.R. of CHINA
1 lab in PAKISTAN
1 lab in PERU
1 lab in PHILIPPINES
1 lab in SINGAPORE
2 labs in SPAIN
1 lab in SRI LANKA
1 lab in SWITZERLAND
3 labs in TAIWAN R.O.C.
3 labs in THAILAND
2 labs in THE NETHERLANDS
5 labs in TURKEY
8 labs in U.S.A.
3 labs in UNITED KINGDOM
2 labs in VIETNAM

APPENDIX 3

Abbreviations:

C	= final result after checking of first reported suspect result
D(0.01)	= outlier in Dixon's outlier test
D(0.05)	= straggler in Dixon's outlier test
G(0.01)	= outlier in Grubbs' outlier test
G(0.05)	= straggler in Grubbs' outlier test
DG(0.01)	= outlier in Double Grubbs' outlier test
DG(0.05)	= straggler in Double Grubbs' outlier test
R(0.01)	= outlier in Rosner' outlier test
R(0.05)	= straggler in Rosner' outlier test
n.a.	= not applicable
n.d.	= not detected
fr.	= first reported result
ac	= analytical correction <i>cf</i> EN71-3:1994, paragraph 4.2

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