

Results of Proficiency Test
Migration of elements
April 2015

Organised by: Institute for Interlaboratory Studies
Spijkenisse, the Netherlands

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Report: iis15V02

July 2015

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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 This directive has recently been superseded by Council Directive 2009/48/EC, which applies to toy imports into the EU on 20 July 2011.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Part 3 of EN71:1994 (to be superseded by EN71-3:2013) describes the determination of migration of elements (metals that are considered hazardous) when a toys gets into contact with an acid solution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 146 laboratories in 34 different countries participated. See appendix 3 for the number of participants per country.

In this report the results of the 2015 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. Both materials were prepared by iis.

The first sample was a dried paint spiked with the metals cadmium, chromium (III), lead and mercury. The second sample was a plaster to which cobalt, lead, nickel and selenium 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 test results to allow meaningful statistical analysis.

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 matrices and containing a number of different elements were prepared. One batch was a scraped-off dried paint and the second batch was a plaster, both prepared by iis.

A batch of liquid paint (to be used for sample #15052) was enriched with the elements Cadmium, Chromium, Lead and Mercury. After application to a surface, drying, scraping off, milling, sieving and homogenization, a total of 194 samples of 0.5 gram were prepared and labelled #15052. The homogeneity of the subsamples #15052 was verified by measuring the migration of elements on 8 stratified randomly selected samples. The analytical testing was subcontracted to an ISO17025 accredited laboratory. The results varied for Aluminium between 1300 – 1700 mg/kg, Cadmium between 6.4 – 7.4 mg/kg, for Chromium between 3.2 – 3.8 mg/kg, for Cobalt between 290 – 330 mg/kg and for Lead between 46 – 55 mg/kg. Regretfully the migration of mercury from the sample was <10 mg/kg. Although this was unexpected, it was decided to use the sample anyway. The differences between the test results for homogeneity of the subsamples #15052 were all well within the spread of the laboratory and therefore the homogeneity of the subsamples #15052 was assumed.

To the batch of plaster (used for sample #15053) the elements Cobalt, Lead, Nickel and Selenium were added via several intermediate steps to obtain the following concentrations: for Cobalt: 24 mg/kg as Co, for Lead: 35 mg/kg as Pb, for Nickel: 151 mg/kg as Ni and for Selenium: 73 mg/kg as Se.

After thorough mixing/homogenizing, the batch of plaster was divided over 192 plastic bags each filled with 0.5 gram and labelled #15053. The homogeneity of the subsamples was verified by measuring the total element content on 8 stratified randomly selected samples. The results varied for Cobalt between 23 – 25 mg/kg, for Lead between 46 – 48 mg/kg, for Nickel between 150 – 170 mg/kg and for Selenium between 63 – 83 mg/kg.

The differences between the test results for homogeneity of the subsamples #15053 were all well within the spread of the laboratory and therefore the homogeneity of the subsamples #15053 was assumed.

One plastic bag with 0.5 gram scraped-off dried paint (#15052) and one plastic bag with 0.5 gram plaster (#15053) were sent to the participating laboratories on April 8, 2015.

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 $Z_{(target)}$ -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 147 participants, 26 participants reported results after the deadline for reporting and only one participant did not report any test results at all. Finally, the 146 reporting laboratories submitted 2099 numerical results. Observed were 53 outlying results, which is 2.5%. In proficiency studies outlier percentages of 3% - 7.5% are quite normal.

Not all original data sets proved to have a normal Gaussian distribution. These are referred to as “not OK” or “suspect”. The statistical evaluation of these data sets should be used with due care, see also paragraph 3.1.

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 #15052:

Aluminium: The migration of aluminium from dried paint on sample #15052, at a level of 1400 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.

Boron: The migration of boron from dried paint on sample #15052, at a level of 22 mg/kg, may not be problematic. Nine 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 #15052, at a level of 7.5 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.

- Chromium:** The migration of chromium from dried paint on sample #15052, at a level of 3.8 mg/kg may not be problematic. Only one statistical outlier was observed. 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.
- Mercury:** Although 25 mg/kg mercury was added to the paint, only four laboratories reported a positive test result for mercury, see appendix 2. Probably the added amount of mercury was too low for a suitable migration level.
- Cobalt:** The migration of cobalt from dried paint on sample #15052, at a level of 355 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.
- Lead:** The migration of lead from dried paint on sample #15052, at a level of 50 mg/kg, may not be problematic. Four 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 #15052, at a level of 6.3 mg/kg, may not be problematic. Two statistical outliers were observed. 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.

PLASTER Sample #15053

- Aluminium:** The migration of aluminium from plaster on sample #15053, at a level of 295 mg/kg may not be problematic. Only one statistical outlier was observed. However, 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.
- Cobalt:** Although 24 mg/kg cobalt was added to the plaster, none one laboratory reported a positive test result for cobalt 2. Probably the added amount of cobalt was too low for a suitable migration level.
- Lead:** The migration of lead from plaster on sample #15053, at a level of 28 mg/kg may not be problematic. Four 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 #15053, at a level of 64 mg/kg may not be problematic. Four 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 plaster on sample #15053, at a level of 64 mg/kg may not be problematic. Three 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.
- Selenium: The migration of selenium from plaster on sample #15053, at a level of 66 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.
- Strontium: The migration of strontium from plaster on sample #15053, at a level of 301 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	135	1412	678	2727
Boron	mg/kg	102	21.6	7.4	8.5
Cadmium	mg/kg	142	7.5	2.5	11.7
Chromium	mg/kg	105	3.8	1.5	3.1
Cobalt	mg/kg	137	355	99	557
Lead	mg/kg	141	49.6	16.6	30.5
Nickel	mg/kg	91	6.3	3.6	6.1

Table 1: reproducibilities of test results in scraped off paint sample #15052

<i>Element</i>	<i>unit</i>	<i>n</i>	<i>average</i>	<i>2.8 * sd</i>	<i>R (target)</i>
Aluminium	mg/kg	132	295	168	454
Lead	mg/kg	140	27.5	14.9	20.0
Manganese	mg/kg	129	64.3	23.3	22.0
Nickel	mg/kg	131	36.9	15.3	24.8
Selenium	mg/kg	143	65.7	46.2	99.4
Strontium	mg/kg	125	301	154	160

Table 2: reproducibilities of test results in plaster sample #15053

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 2015 WITH PREVIOUS PTS

	<i>April 2015</i>	<i>April 2014</i>	<i>April 2013</i>	<i>Febr. 2012</i>	<i>March 2011</i>
Number of reporting labs	146	112	116	113	74
Number of results reported	2099	1754	957	982	716
Statistical outliers	53	64	41	28	34
Percentage outliers	2.5%	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 2015 paint</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	17%	37%	34%	--	--	--	69%
Antimony	--	22%	22%	33%	23%	--	61%
Arsenic	--	14%	16%	--	13%	--	45%
Barium	--	--	--	48-57%	42-76%	20%	22%
Boron	12%	--	--	--	--	--	14%
Cadmium	12%	12%	13%	--	11-14%	--	56%
Chromium III	14%	--	--	23%	--	6%	29%
Chromium VI	--	--	--	--	--	--	46%
Cobalt	10%	--	--	--	18%	--	56%
Copper	--	--	--	11-12%	--	--	28%
Lead	12%	--	--	22%	18-19%	12-13%	22%
Manganese	--	13%	15%	--	--	--	24%
Mercury	--	--	--	--	55%	--	n.a.
Nickel	21%	14%	16%	--	15-18%	--	35%
Selenium	--	--	--	26%	--	--	51%
Strontium	--	--	--	--	--	--	16%
Tin	--	--	--	32-42%	--	--	32%
Organic Tin	--	--	--	--	--	--	n.a.
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.

<i>Element</i>	<i>April 2015 plaster</i>	<i>April 2014 plaster</i>	<i>April 2013 plaster</i>	<i>Target 2*) plaster</i>
Aluminium	20%	21%	--	55%
Antimony	--	28%	--	39%
Arsenic	--	--	--	40%
Barium	20%	--	--	29%
Boron	--	--	--	21%
Cadmium	--	--	--	45%
Chromium III	--	--	--	23%
Chromium VI	--	--	--	n.a.
Cobalt	--	--	--	16%
Copper	--	--	22%	23%
Lead	19%	18%	22%	26%
Manganese	13%	12%	--	12%
Mercury	--	--	--	n.a.
Nickel	15%	--	--	24%
Selenium	25%	--	--	54%
Strontium	18%	--	--	19%
Tin	--	--	--	37%
Organic Tin	--	--	--	39%
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.

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

It is remarkable to find that no migration for mercury was found in dried paint sample #15052 and also no migration was found for cobalt in plaster samples #15053 in spite of the fortification that was with those metals to the basic materials. Mercury was fortified up to 25 mg/kg and Cobalt was fortified up to 24 mg/kg. Obviously in future PTs the fortification concentrations will need to be higher than 25 mg/kg.

When the spreads of the migration results of the various elements from paint and from plaster are compared, at least five elements (Al, Mn, Ni, Se and Zn) show no differences in precision between dried paint and plaster, while in the validation study (ref 16) significant differences for these metals were observed. For the other elements too few data is available to draw similar conclusions.

The reported test results will in practice be compared to the requirements for toys according to EN71-3:2013 (category I for plaster sample #15053 and category III for dried paint sample

#15052), which supports essential requirements of EU Directive 2009/48/EC (no longer mentioning analytical corrections to be applied before reporting). When this is done with the test results as reported in this proficiency test, the following is observed:

Dried paint sample #15052 would be accepted by all laboratories for all elements tested, except for lead for which laboratory 3220 reported a lead concentration of 230 mg/kg which is above the maximum migration limit of 160 mg/kg.

Plaster sample #15053 would be rejected by all laboratories for lead and selenium, with the exception of laboratories 622, 2320, 2489 and 2532, that reported a lead result below the maximum migration limit for lead of 13.5 mg/kg and laboratories 622, 2247, 2489, 2532, 2560, 2566, 2590, 2659 and 3122, that reported a selenium result below the maximum migration limit for selenium of 37.5 mg/kg .

Sample #15053 would be accepted by all laboratories for aluminium, manganese, nickel and strontium. However, laboratory 3220 would have rejected this sample because it reported a nickel concentration of 90.0 mg/kg which is above the maximum migration limit of 75 mg/kg.

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
Boron	1200	15000
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

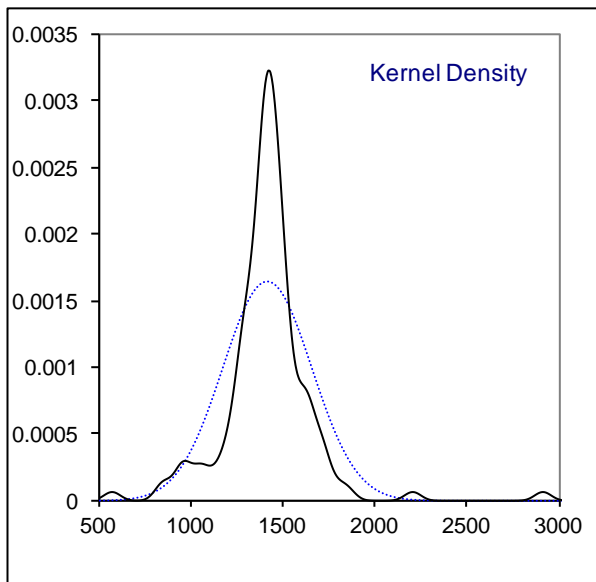
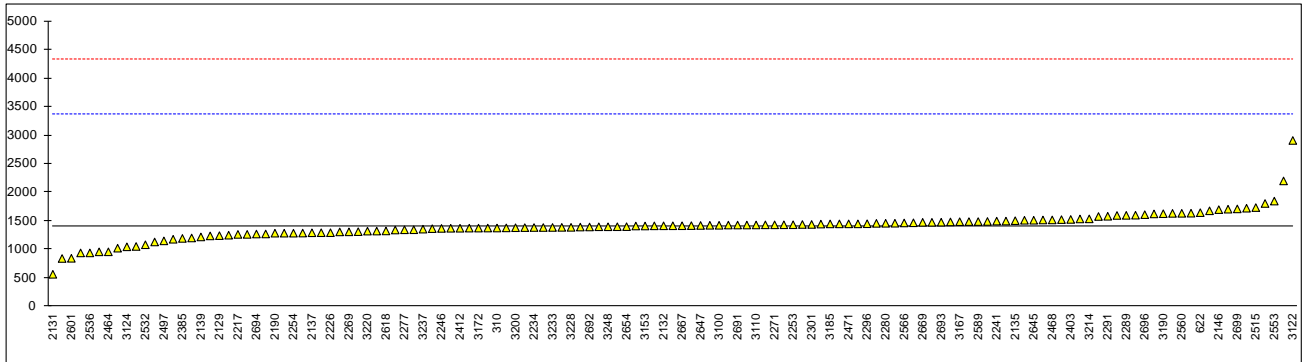
table 6: maximum migration limits in EU according EN71-3:2013 and 2009/48/EN

APPENDIX 1**Determination of migration of Aluminium as Al on dried paint sample #15052; results in mg/kg**

lab	method	value	mark	z(targ)	remarks
310	EN71-3	1378		-0.03	
330	EN71-3:2013	1287.835		-0.13	
551	EN71-3:2013	1638		0.23	
622	EN71-3:2013	1647.20		0.24	
2108	EN71-3:2013	1314		-0.10	
2115	EN71-3:2014	1416.40		0.00	
2118	EN71-3:2013	844.40		-0.58	
2129	EN71-3:2013	1244.571		-0.17	
2131	EN71-3:2013	567.363		-0.87	
2132	EN71-3:2013	1417.11		0.01	
2135	EN71-3:2013	1506.6		0.10	
2137	ISO8124-3:2013	1295.02		-0.12	
2139	EN71-3:2013	1222.000		-0.19	
2146	EN71-3:2013	1700		0.30	
2152	EN71-3:2013	1679.9		0.28	
2156	EN71-3:2013	1296		-0.12	
2165	EN71-3:2013	1400.90		-0.01	
2172	EN71-3:2013 + A1:2014	1514		0.11	
2184	EN71-3:2013 + A1:2014	1380.4		-0.03	
2190	EN71-3:2013	1287.8		-0.13	
2201	EN71-3:2013	1537.0		0.13	
2217	EN71-3:2013	1266.22		-0.15	
2225	EN71-3:2013	1430.6		0.02	
2226	EN71-3:2013	1296.2		-0.12	
2229	EN71-3:2013 + A1:2014	1580.18		0.17	
2232	EN71-3:2013	1367		-0.05	
2234	EN71-3:2013	1387		-0.03	
2236	EN71-3:2013	1348		-0.07	
2240	EN71-3:2013	1440.0		0.03	
2241	EN71-3:2013 + A1:2014	1499.310		0.09	
2245	EN71-3:2013 + A1:2014	1450.5		0.04	
2246	EN71-3:2013	1371		-0.04	
2247	EN71-3:2013	1343.28		-0.07	
2253	EN71-3:2013	1435.76		0.02	
2254	EN71-3:2013	1287.873		-0.13	
2255	EN71-3:2013	1025.0		-0.40	
2256	EN71-3:2013	1447		0.04	
2264		----		----	
2268	EN71-3:2013 + A1:2014	1389.6		-0.02	
2269	EN71-3:2013	1311.2105		-0.10	
2271	EN71-3:2013	1434.12		0.02	
2277	EN71-3:2013	1347.1		-0.07	
2279	EN71-3:2013	1376.1		-0.04	
2280	EN71-3:2013 + A1:2014	1461.0		0.05	
2282	EN71-3:2013	1500		0.09	
2283	EN71-3:2013 + A1:2014	1808.0		0.41	
2284	EN71-3:2013	1485.13		0.08	
2289	EN71-3:2013	1600		0.19	
2290	EN71-3:2013	1373.5		-0.04	
2291	EN71-3:2013	1584		0.18	
2293		----		----	
2295		----		----	
2296	EN71-3:2013	1453.229		0.04	
2297	EN71-3:2013	1420.2		0.01	
2299		----		----	
2301	EN71-3:2013	1440.76		0.03	
2320	EN71-3:2013	1598.31		0.19	
2366	EN71-3:2013 + A1:2014	1435		0.02	
2370	EN71-3:2013	1310		-0.10	
2372	EN71-3:2013	1395		-0.02	
2375	EN71-3 + A1:2014	1525.4		0.12	
2385	EN71-3	1196		-0.22	
2390	EN71-3:2013	1519.01		0.11	
2401	EN71-3:2013	1430		0.02	
2403	EN71-3:2013	1528.5		0.12	
2404	EN71-3:2013 + A1:2014	1434		0.02	
2409	EN71-3:1995 + A1:2000	1603		0.20	
2410	EN71-3:2013	1470		0.06	
2412	EN71-3:2013	1374		-0.04	
2413	EN71-3:2013	1385.10		-0.03	
2429	EN71-3:2013	1625.23		0.22	
2431	EN71-3:2013	1413.3978		0.00	
2432		----		----	
2433	EN71-3:2013	2203.39		0.81	
2442		----		----	
2459	EN71-3:2013	942.015		-0.48	

2464	EN71-3:2013	961.4		-0.46	
2465	EN71-3:2013	1377.5		-0.04	
2468	EN71-3:2013	1520		0.11	
2471	EN71-3:2013	1450.86		0.04	
2475	EN71-3 + A1	1266.7		-0.15	
2489	EN71-3:2013	960.87		-0.46	
2497	EN71-3:2013	1153.04	C	-0.27	first reported: 56.772
2504	EN71-3:2013	1252.5		-0.16	
2515	EN71-3:2013	1736.204		0.33	
2532	EN71-3:2013	1085		-0.34	
2536	EN71-3:2013	942.28		-0.48	
2553	EN71-3:2013	1850		0.45	
2560	EN71-3:2013	1635.7	C	0.23	first reported: 6.6
2566	EN71-3:2013	1466.8		0.06	
2567		-----		-----	
2589	EN71-3:2013	1491		0.08	
2590	EN71-3:2013	1181.27	C	-0.24	first reported: 7669.60
2601	EN71-3:2013	847.6		-0.58	
2605	EN71-3:2013	1725		0.32	
2607		-----		-----	
2618	EN71-3:2013	1327.10		-0.09	
2622	EN71-3:2013	1400		-0.01	
2642		-----		-----	
2643	EN71-3:2013	1134		-0.29	
2645	EN71-3:2013 + A1:2014	1514.45		0.11	
2647	EN71-3:2013	1423.12		0.01	
2652	EN71-3:2013	1493.1		0.08	
2654	EN71-3:2014	1402.00		-0.01	
2659		-----		-----	
2660	EN71-3:2013	1451		0.04	
2667	EN71-3:2013	1418.24		0.01	
2669	EN71-3:2013	1477.6		0.07	
2672	EN71-3:2014	1055		-0.37	
2680	EN71-3:2013	1387.1		-0.03	
2684	EN71-3:2013	1459.6		0.05	
2690	EN71-3:2013	1426		0.01	
2691	EN71-3:2013	1430.3		0.02	
2692	EN71-3:2013	1396.46		-0.02	
2693	EN71-3:2013 + A1:2014	1480		0.07	
2694	EN71-3:2013	1272.928		-0.14	
2696	EN71-3:2013	1612.13		0.21	
2697	EN71-3:2013	1239.95		-0.18	
2699	EN71-3:2013	1713		0.31	
3100	EN71-3:2013	1426		0.01	
3110	EN71-3:2013 + A1:2014	1431.84		0.02	
3116	EN71-3:2013 + A1:2014	1478		0.07	
3118	EN71-3:2013	1708		0.30	
3122	EN71-3:2013	2912		1.54	
3124	EN71-3:2013	1049		-0.37	
3146	EN71-3:2014	1290		-0.12	
3151	EN71-3:2013	1462		0.05	
3153	EN71-3:2013 + A1:2014	1413.6		0.00	
3167	EN71-3:2013	1488.9		0.08	
3172	EN71-3:2013	1376.5		-0.04	
3176	EN71-3:2013	1417.571		0.01	
3182	EN71-3:2013 + A1:2014	1203.907		-0.21	
3185	EN71-3:2013 + A1:2014	1450.2		0.04	
3190	EN71-3:2013	1629		0.22	
3197	EN71-3:2013	1274.0		-0.14	
3199		-----		-----	
3200	EN71-3:2013	1383.54		-0.03	
3214	EN71-3:2013	1538.4		0.13	
3218	EN71-3:2013	1490.5		0.08	
3220	EN71-3	1323.8		-0.09	
3228	EN71-3:2013	1390.0		-0.02	
3233	EN71-3:2013 + A1:2014	1388		-0.02	
3237	EN71-3:2013	1358.50		-0.05	
3238	EN71-3:2013	1324.7		-0.09	
3246	EN71-3:2013	1634.65		0.23	
3248	EN71-3:2013	1400		-0.01	
8005		-----		-----	
	normality	not OK			
	n	135			
	outliers	0			
	mean (n)	1411.70			
	st.dev. (n)	242.129			
	R(calc.)	677.96			
	R(RR prEN71-3:13)	2727.41			

Determination of migration of Aluminium as Al on dried paint sample #15052; graphical results



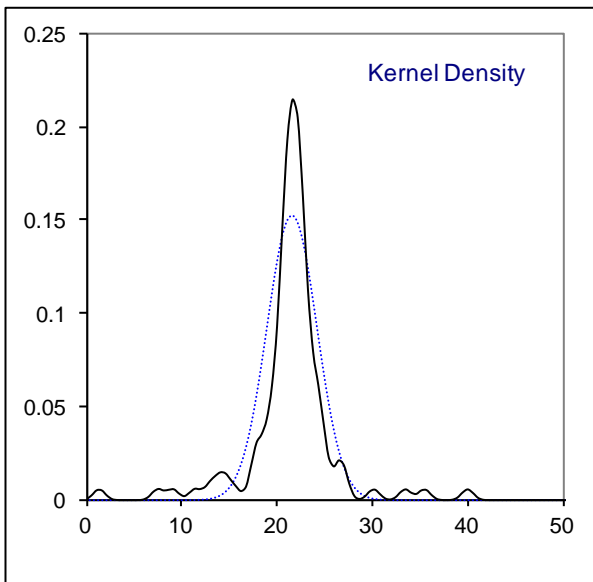
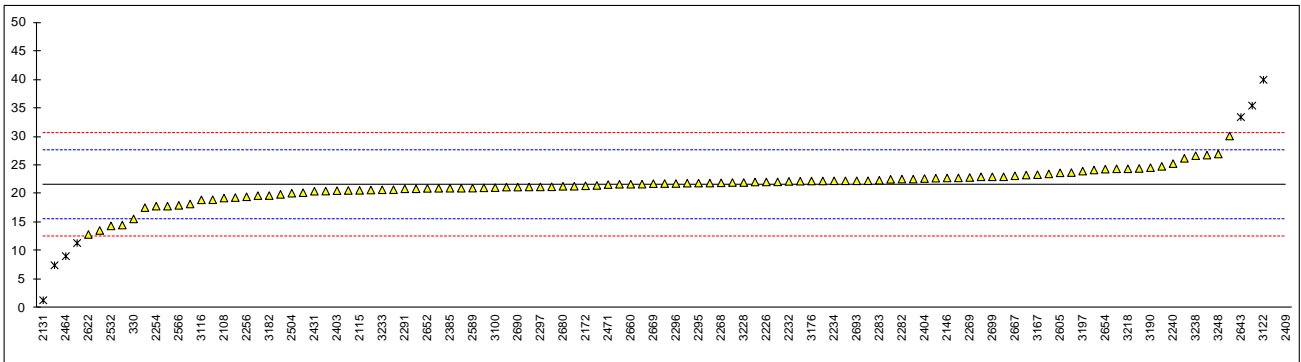
Determination of migration of Boron as B on dried paint sample #15052; results in mg/kg

lab	method	value	mark	z(targ)	remarks
310	EN71-3	21.07		-0.17	
330	EN71-3:2013	15.623		-1.97	
551	EN71-3:2013	n.d.		----	
622	EN71-3:2013	21.35		-0.08	
2108	EN71-3:2013	19.28		-0.76	
2115	EN71-3:2014	20.63		-0.32	
2118	EN71-3:2013	18.24		-1.11	
2129	EN71-3:2013	21.881		0.10	
2131	EN71-3:2013	1.3726	R(0.01)	-6.69	
2132	EN71-3:2013	20.22		-0.45	
2135	EN71-3:2013	7.5	R(0.01)	-4.66	
2137	ISO8124-3:2013	20.74		-0.28	
2139	EN71-3:2013	21.713		0.04	
2146	EN71-3:2013	22.8		0.40	
2152	EN71-3:2013	24.46		0.95	
2156	EN71-3:2013	19.7		-0.62	
2165	EN71-3:2013	21.25		-0.11	
2172	EN71-3:2013 + A1:2014	21.43		-0.05	
2184	EN71-3:2013 + A1:2014	22.6		0.34	
2190	EN71-3:2013	<50		----	
2201	EN71-3:2013	22.3		0.24	
2217	EN71-3:2013	20.69		-0.30	
2225	EN71-3:2013	<25.0		----	
2226	EN71-3:2013	22.1		0.17	
2229	EN71-3:2013 + A1:2014	19.92		-0.55	
2232	EN71-3:2013	22.2		0.20	
2234	EN71-3:2013	22.3		0.24	
2236	EN71-3:2013	20.99		-0.20	
2240	EN71-3:2013	25.31		1.23	
2241	EN71-3:2013 + A1:2014	23.740		0.71	
2245	EN71-3:2013 + A1:2014	20.9		-0.23	
2246	EN71-3:2013	<25		----	
2247	EN71-3:2013	14.55		-2.33	
2253	EN71-3:2013	22.76		0.39	
2254	EN71-3:2013	17.860		-1.23	
2255	EN71-3:2013	n.d.		----	
2256	EN71-3:2013	19.5		-0.69	
2264		----		----	
2268	EN71-3:2013 + A1:2014	21.947		0.12	
2269	EN71-3:2013	22.8797		0.43	
2271	EN71-3:2013	21.82		0.08	
2277	EN71-3:2013	21.7		0.04	
2279	EN71-3:2013	<25		----	
2280	EN71-3:2013 + A1:2014	21.2		-0.13	
2282	EN71-3:2013	22.6		0.34	
2283	EN71-3:2013 + A1:2014	22.4		0.27	
2284	EN71-3:2013	21.22		-0.12	
2289	EN71-3:2013	24.4		0.93	
2290	EN71-3:2013	<50		----	
2291	EN71-3:2013	20.90		-0.23	
2293		----		----	
2295	EN71-3:2013	21.9		0.10	
2296	EN71-3:2013	21.826		0.08	
2297	EN71-3:2013	21.23		-0.12	
2299		----		----	
2301	EN71-3:2013	19.36		-0.74	
2320	EN71-3:2013	18.983		-0.86	
2366	EN71-3:2013 + A1:2014	n.d.		----	
2370	EN71-3:2013	n.d.		----	
2372	EN71-3:2013	n.d.		----	
2375		----		----	
2385	EN71-3	21		-0.19	
2390	EN71-3:2013	n.d.		----	
2401	EN71-3:2013	23		0.47	
2403	EN71-3:2013	20.568		-0.34	
2404	EN71-3:2013 + A1:2014	22.7		0.37	
2409	EN71-3:1995 + A1:2000	135.4	R(0.01)	37.66	
2410	EN71-3:2013	21		-0.19	
2412	EN71-3:2013	26.8		1.73	
2413	EN71-3:2013	26.24	C	1.54	first reported: 48.90
2429	EN71-3:2013	23.31		0.57	
2431	EN71-3:2013	20.4751	C	-0.37	first reported: 70.4791
2432		----		----	
2433	EN71-3:2013	n.d.		----	
2442		----		----	

2459	EN71-3:2013	22.000		0.14	
2464	EN71-3:2013	9.1	R(0.01)	-4.13	
2465	EN71-3:2013	23.51		0.64	
2468	EN71-3:2013	22.09		0.17	
2471	EN71-3:2013	21.64		0.02	
2475		----		----	
2489	EN71-3:2013	13.60		-2.64	
2497	EN71-3:2013	35.47	C,R(0.01)	4.59	first reported: 1.7426
2504	EN71-3:2013	20.13		-0.48	
2515	EN71-3:2013	22.273		0.23	
2532	EN71-3:2013	14.4		-2.38	
2536	EN71-3:2013	22.115		0.18	
2553	EN71-3:2013	21.9		0.10	
2560	EN71-3:2013	<5		<-5.49	
2566	EN71-3:2013	18		-1.19	
2567		----		----	
2589	EN71-3:2013	21.02		-0.19	
2590		----		----	
2601		----		----	
2605	EN71-3:2013	23.7		0.70	
2607		----		----	
2618	EN71-3:2013	>5	C	----	first reported: 97.12
2622	EN71-3:2013	12.9		-2.87	
2642		----		----	
2643	EN71-3:2013	33.46	R(0.01)	3.93	
2645	EN71-3:2013 + A1:2014	n.d.		----	
2647	EN71-3:2013	22.31		0.24	
2652	EN71-3:2013	20.973		-0.20	
2654	EN71-3:2014	24.34		0.91	
2659		----		----	
2660	EN71-3:2013	21.7		0.04	
2667	EN71-3:2013	23.18		0.53	
2669	EN71-3:2013	21.798		0.07	
2672	EN71-3:2014	17.86		-1.23	
2680	EN71-3:2013	21.34		-0.08	
2684	EN71-3:2013	22.81		0.41	
2690	EN71-3:2013	21.2		-0.13	
2691	EN71-3:2013	22.23		0.21	
2692	EN71-3:2013	21.49		-0.03	
2693	EN71-3:2013 + A1:2014	22.3		0.24	
2694	EN71-3:2013	24.194		0.86	
2696	EN71-3:2013	23.003		0.47	
2697	EN71-3:2013	24.8318		1.07	
2699	EN71-3:2013	23		0.47	
3100	EN71-3:2013	21.1		-0.16	
3110	EN71-3:2013 + A1:2014	<100		----	
3116	EN71-3:2013 + A1:2014	18.97		-0.87	
3118	EN71-3:2013	30.15		2.83	
3122	EN71-3:2013	40	R(0.01)	6.09	
3124	EN71-3:2013	11.4	R(0.01)	-3.37	
3146	EN71-3:2014	20.5		-0.36	
3151	EN71-3:2013	20.61		-0.32	
3153	EN71-3:2013 + A1:2014	<50		----	
3167	EN71-3:2013	23.37		0.59	
3172	EN71-3:2013	<50		----	
3176	EN71-3:2013	22.263		0.22	
3182	EN71-3:2013 + A1:2014	19.712		-0.62	
3185	EN71-3:2013 + A1:2014	<50		----	
3190	EN71-3:2013	24.6		1.00	
3197	EN71-3:2013	24.0		0.80	
3199		----		----	
3200	EN71-3:2013	22.56		0.32	
3214	EN71-3:2013	<50		----	
3218	EN71-3:2013	24.4		0.93	
3220	EN71-3	73.7	R(0.01)	17.25	
3228	EN71-3:2013	22.0		0.14	
3233	EN71-3:2013 + A1:2014	20.73		-0.28	
3237	EN71-3:2013	n.d.		----	
3238	EN71-3:2013	26.7		1.69	
3246	EN71-3:2013	17.6		-1.32	
3248	EN71-3:2013	27		1.79	
8005		----		----	

normality	not OK
n	102
outliers	9
mean (n)	21.58
st.dev. (n)	2.626
R(calc.)	7.35
R(RR prEN71-3:13)	8.46

Determination of migration of Boron as B on dried paint sample #15052; graphical results

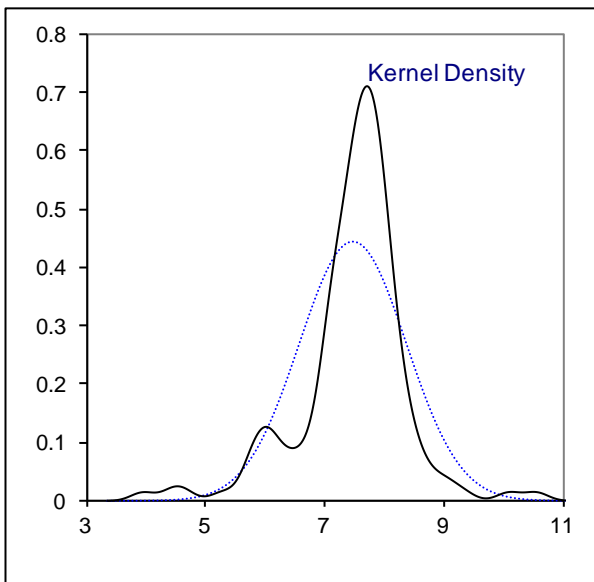
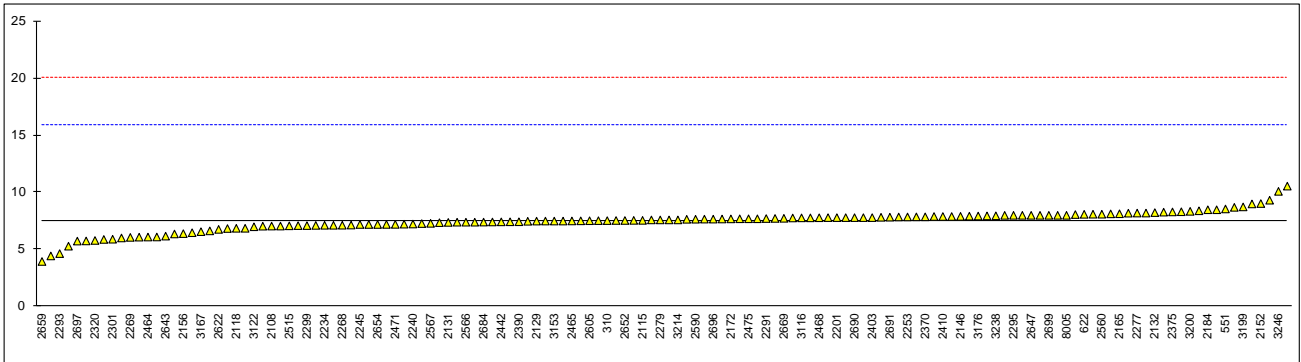


Determination of migration of Cadmium as Cd on dried paint sample #15052; results in mg/kg

lab	method	value	mark	z(targ)	remarks
310	EN71-3	7.539		0.01	
330	EN71-3:2013	7.535		0.01	
551	EN71-3:2013	8.56		0.26	
622	EN71-3:2013	8.09		0.14	
2108	EN71-3:2013	7.06		-0.10	
2115	EN71-3:2014	7.56		0.02	
2118	EN71-3:2013	6.865		-0.15	
2129	EN71-3:2013	7.496		0.00	
2131	EN71-3:2013	7.381		-0.02	
2132	EN71-3:2013	8.24		0.18	
2135	EN71-3:2013	7.5		0.00	
2137	ISO8124-3:2013	6.02		-0.35	
2139	EN71-3:2013	6.847		-0.15	
2146	EN71-3:2013	7.91		0.10	
2152	EN71-3:2013	9.034		0.37	
2156	EN71-3:2013	6.4		-0.26	
2165	EN71-3:2013	8.14		0.16	
2172	EN71-3:2013 + A1:2014	7.69		0.05	
2184	EN71-3:2013 + A1:2014	8.49		0.24	
2190	EN71-3:2013	6.37		-0.27	
2201	EN71-3:2013	7.8		0.08	
2217	EN71-3:2013	7.05		-0.10	
2225	EN71-3:2013	7.8		0.08	
2226	EN71-3:2013	8.4		0.22	
2229	EN71-3:2013 + A1:2014	10.56		0.73	
2232	EN71-3:2013	7.15		-0.08	
2234	EN71-3:2013	7.13		-0.08	
2236	EN71-3:2013	7.781		0.07	
2240	EN71-3:2013	7.24		-0.06	
2241	EN71-3:2013 + A1:2014	7.953		0.11	
2245	EN71-3:2013 + A1:2014	7.2		-0.07	
2246	EN71-3:2013	7.48		0.00	
2247	EN71-3:2013	5.76		-0.41	
2253	EN71-3:2013	7.86		0.09	
2254	EN71-3:2013	7.061		-0.10	
2255	EN71-3:2013	7.1		-0.09	
2256	EN71-3:2013	7.56		0.02	
2264	EN71-3:2013	9.326		0.44	
2268	EN71-3:2013 + A1:2014	7.1364		-0.08	
2269	EN71-3:2013	6.0686		-0.34	
2271	EN71-3:2013	7.83		0.08	
2277	EN71-3:2013	8.2		0.17	
2279	EN71-3:2013	7.6		0.03	
2280	EN71-3:2013 + A1:2014	7.6		0.03	
2282	EN71-3:2013	<10		----	
2283	EN71-3:2013 + A1:2014	7.8		0.08	
2284	EN71-3:2013	7.73		0.06	
2289	EN71-3:2013	7.67		0.04	
2290	EN71-3:2013	7.7		0.05	
2291	EN71-3:2013	7.720		0.06	
2293	EN71-3:2013	4.65		-0.68	
2295	EN71-3:2013	8		0.12	
2296	EN71-3:2013	8.490		0.24	
2297	EN71-3:2013	7.42		-0.02	
2299	INH-324	7.1025		-0.09	
2301	EN71-3:2013	5.91		-0.38	
2320	EN71-3:2013	5.800		-0.40	
2366	EN71-3:2013 + A1:2014	n.d.		----	
2370	EN71-3:2013	7.87		0.09	
2372	EN71-3:2013	7.228		-0.06	
2375	EN71-3 + A1:2014	8.3		0.19	
2385	EN71-3	7.9		0.10	
2390	EN71-3:2013	7.44		-0.01	
2401	EN71-3:2013	8		0.12	
2403	EN71-3:2013	7.8014		0.08	
2404	EN71-3:2013 + A1:2014	8.7		0.29	
2409	EN71-3:1995 + A1:2000	4.445		-0.73	
2410	EN71-3:2013	7.9		0.10	
2412	EN71-3:2013	7.4		-0.02	
2413	EN71-3:2013	<10		----	
2429	EN71-3:2013	8.07		0.14	
2431	EN71-3:2013	8.0993		0.15	
2432	in house	8.13		0.15	
2433	EN71-3:2013	6.64		-0.20	
2442	in house	7.43		-0.01	
2459	EN71-3:2013	7.200		-0.07	

2464	EN71-3:2013	6.1	-0.33	
2465	EN71-3:2013	7.51	0.01	
2468	EN71-3:2013	7.79	0.07	
2471	EN71-3:2013	7.21	-0.07	
2475	EN71-3 + A1	7.7	0.05	
2489	EN71-3:2013	5.89	-0.38	
2497	EN71-3:2013	7.653	0.04	first reported: 0.377
2504	EN71-3:2013	7.36	-0.03	
2515	EN71-3:2013	7.083	-0.10	
2532	EN71-3:2013	5.3	-0.52	
2536	EN71-3:2013	7.205	-0.07	
2553	EN71-3:2013	7.13	-0.08	
2560	EN71-3:2013	8.1	0.15	
2566	EN71-3:2013	7.4	-0.02	
2567	EN71-3:2013	7.30	-0.04	
2589	EN71-3:2013	7.437	-0.01	
2590	EN71-3:2013	7.66	0.04	first reported: 31.06
2601	EN71-3:2013	6.48	-0.24	
2605	EN71-3:2013	7.53	0.01	
2607		-----	-----	
2618	EN71-3:2013	7.55	0.02	
2622	EN71-3:2013	6.77	-0.17	
2642	ASTM F963	7.28	-0.05	
2643	EN71-3:2013	6.18	-0.31	
2645	EN71-3:2013 + A1:2014	7.77	0.07	
2647	EN71-3:2013	8.00	0.12	
2652	EN71-3:2013	7.5504	0.02	
2654	EN71-3:2014	7.20	-0.07	
2659	ISO8124-3:2012	3.960	-0.84	
2660	EN71-3:2013	7.93	0.11	
2667	EN71-3:2013	7.52	0.01	
2669	EN71-3:2013	7.74	0.06	
2672	EN71-3:2014	6.866	-0.15	
2680	EN71-3:2013	8.316	0.20	
2684	EN71-3:2013	7.41	-0.02	
2690	EN71-3:2013	7.8	0.08	
2691	EN71-3:2013	7.84	0.09	
2692	EN71-3:2013	8.19	0.17	
2693	EN71-3:2013 + A1:2014	8	0.12	
2694	EN71-3:2013	7.857	0.09	
2696	EN71-3:2013	7.670	0.04	
2697	EN71-3:2013	5.74660	-0.41	
2699	EN71-3:2013	8	0.12	
3100	EN71-3:2013	n.d.	-----	
3110	EN71-3:2013 + A1:2014	8.20	0.17	
3116	EN71-3:2013 + A1:2014	7.78	0.07	
3118	EN71-3:2013	8.28	0.19	
3122	EN71-3:2013	7	-0.12	
3124	EN71-3:2013	6.09	-0.33	
3146	EN71-3:2014	7.68	0.05	
3151	EN71-3:2013	7.868	0.09	
3153	EN71-3:2013 + A1:2014	7.5	0.00	
3167	EN71-3:2013	6.57	-0.22	
3172	EN71-3:2013	7.6	0.03	
3176	EN71-3:2013	7.941	0.11	
3182	EN71-3:2013 + A1:2014	6.106	-0.33	
3185	EN71-3:2013 + A1:2014	7.8	0.08	
3190	EN71-3:2013	7.7	0.05	
3197	EN71-3:2013	7.4	-0.02	
3199	EN71-3	8.74	0.30	
3200	EN71-3:2013	8.35	0.21	
3214	EN71-3:2013	7.6	0.03	
3218	EN71-3:2013	7.5	0.00	
3220	EN71-3	9.0	0.36	
3228	EN71-3:2013	7.9	0.10	
3233	EN71-3:2013 + A1:2014	7.998	0.12	
3237	EN71-3:2013	7.12	-0.09	
3238	EN71-3:2013	7.96	0.11	
3246	EN71-3:2013	10.1	0.62	
3248	EN71-3:2013	8	0.12	
8005	ASTM F963	8	0.12	
	normality	not OK		
	n	142		
	outliers	0		
	mean (n)	7.48		
	st.dev. (n)	0.898		
	R(calc.)	2.52		
	R(RR prEN71-3:13)	11.73		

Determination of migration of Cadmium as Cd on dried paint sample #15052; graphical results



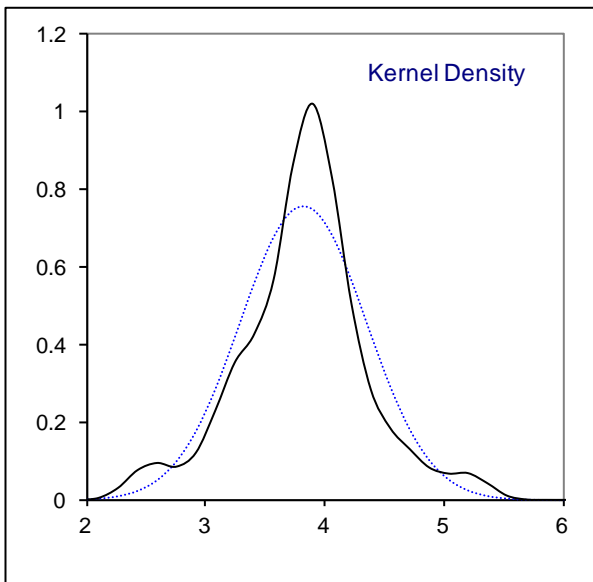
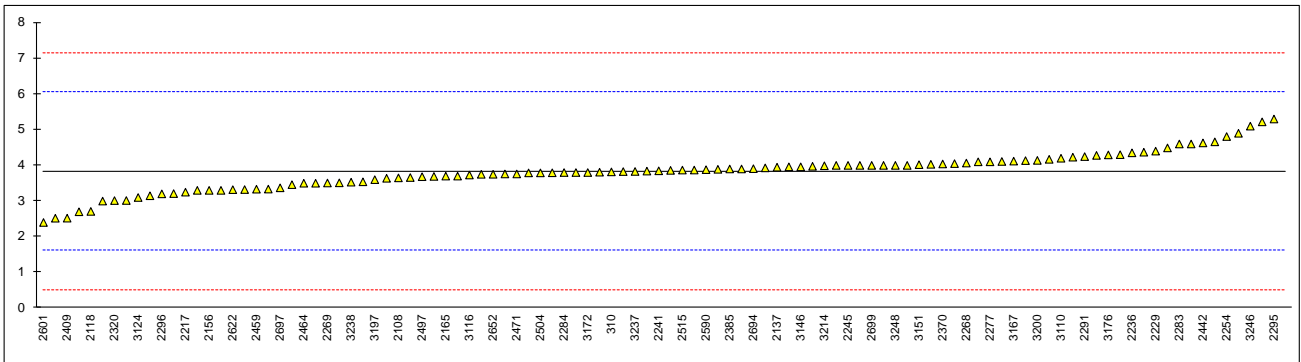
Determination of migration of Chromium as Cr on dried paint sample #15052; results in mg/kg

lab	method	value	mark	z(targ)	remarks
310	EN71-3	3.818		-0.01	
330	EN71-3:2013	3.793		-0.03	
551	EN71-3:2013	3.66		-0.15	
622	EN71-3:2013	3.79		-0.03	
2108	EN71-3:2013	3.65		-0.16	
2115	EN71-3:2014	3.76		-0.06	
2118	EN71-3:2013	2.71		-1.01	
2129	EN71-3:2013	3.511		-0.28	
2131	EN71-3:2013	3.691		-0.12	
2132	EN71-3:2013	4.37		0.49	
2135		----		----	
2137	ISO8124-3:2013	3.95		0.11	
2139	EN71-3:2013	<5		----	
2146	EN71-3:2013	3.81		-0.01	
2152	EN71-3:2013	<5		----	
2156	EN71-3:2013	3.3		-0.47	
2165	EN71-3:2013	3.70		-0.11	
2172	EN71-3:2013 + A1:2014	<5		----	
2184	EN71-3:2013 + A1:2014	3.75		-0.07	
2190	EN71-3:2013	<5		----	
2201	EN71-3:2013	<5		----	
2217	EN71-3:2013	3.25		-0.52	
2225	EN71-3:2013	<5.0		----	
2226	EN71-3:2013	n.d.		----	
2229	EN71-3:2013 + A1:2014	4.40		0.52	
2232	EN71-3:2013	4.28		0.41	
2234	EN71-3:2013	<5		----	
2236	EN71-3:2013	4.352		0.47	
2240	EN71-3:2013	<3		----	
2241	EN71-3:2013 + A1:2014	3.848		0.02	
2245	EN71-3:2013 + A1:2014	4.0		0.16	
2246	EN71-3:2013	<10		----	
2247	EN71-3:2013	n.d.		----	
2253	EN71-3:2013	<5		----	
2254	EN71-3:2013	4.809		0.89	
2255	EN71-3:2013	3.3		-0.47	
2256	EN71-3:2013	3.84		0.01	
2264		----		----	
2268	EN71-3:2013 + A1:2014	4.0658		0.22	
2269	EN71-3:2013	3.5069		-0.29	
2271	EN71-3:2013	3.93		0.09	
2277	EN71-3:2013	4.1		0.25	
2279	EN71-3:2013	<5		----	
2280	EN71-3:2013 + A1:2014	<5		----	
2282	EN71-3:2013	<10		----	
2283	EN71-3:2013 + A1:2014	4.6		0.70	
2284	EN71-3:2013	3.80		-0.02	
2289	EN71-3:2013	<10		----	
2290	EN71-3:2013	<5		----	
2291	EN71-3:2013	4.247		0.38	
2293	EN71-3:2013	4.23		0.36	
2295	EN71-3:2013	5.3		1.33	
2296	EN71-3:2013	3.202		-0.56	
2297	EN71-3:2013	3.86		0.03	
2299	INH-324	4.6003		0.70	
2301	EN71-3:2013	3.54		-0.26	
2320	EN71-3:2013	3.014		-0.73	
2366	EN71-3:2013 + A1:2014	3.87		0.04	
2370	EN71-3:2013	4.04		0.19	
2372	EN71-3:2013	n.d.		----	
2375	EN71-3 + A1:2014	4.9		0.97	
2385	EN71-3	3.9		0.07	
2390	EN71-3:2013	3.9		0.07	
2401	EN71-3:2013	4		0.16	
2403	EN71-3:2013	3.6384		-0.17	
2404	EN71-3:2013 + A1:2014	4.3		0.43	
2409	EN71-3:1995 + A1:2000	2.521		-1.18	
2410	EN71-3:2013	4.1		0.25	
2412	EN71-3:2013	<5		----	
2413	EN71-3:2013	<10		----	
2429	EN71-3:2013	<10		----	
2431	EN71-3:2013	3.9739		0.13	
2432	in house	4.05		0.20	
2433	EN71-3:2013	n.d.		----	
2442	in house	4.63		0.73	

2459	EN71-3:2013	3.333		-0.44
2464	EN71-3:2013	3.5		-0.29
2465	EN71-3:2013	<2		----
2468	EN71-3:2013	4.66		0.75
2471	EN71-3:2013	3.76		-0.06
2475	EN71-3 + A1	3.5		-0.29
2489	EN71-3:2013	n.d.		----
2497	EN71-3:2013	3.683		-0.13
2504	EN71-3:2013	3.79		-0.03
2515	EN71-3:2013	3.869		0.04
2532	EN71-3:2013	2.7		-1.01
2536	EN71-3:2013	3.323		-0.45
2553	EN71-3:2013	3.21		-0.55
2560	EN71-3:2013	3.8		-0.02
2566	EN71-3:2013	3.3		-0.47
2567	EN71-3:2013	3.46		-0.33
2589	EN71-3:2013	<5		----
2590	EN71-3:2013	3.88	C	0.05 first reported: 17.71
2601	EN71-3:2013	2.40		-1.28
2605	EN71-3:2013	n.d.		----
2607		----		----
2618		----		----
2622	EN71-3:2013	3.32		-0.46
2642	ASTM F963	<5		----
2643		----		----
2645	EN71-3:2013 + A1:2014	n.d.		----
2647	EN71-3:2013	4.11		0.26
2652	EN71-3:2013	3.7511		-0.07
2654	EN71-3:2014	3.96		0.12
2659	ISO8124-3:2012	2.519		-1.18
2660	EN71-3:2013	<5		----
2667	EN71-3:2013	<5		----
2669		----		----
2672	EN71-3:2014	3.336		-0.44
2680	EN71-3:2013	3.149		-0.61
2684	EN71-3:2013	4.03		0.18
2690	EN71-3:2013	4.0		0.16
2691	EN71-3:2013	3.89		0.06
2692	EN71-3:2013	4.17		0.31
2693		----		----
2694	EN71-3:2013	3.908		0.07
2696	EN71-3:2013	4.134		0.28
2697	EN71-3:2013	3.37130		-0.41
2699	EN71-3:2013	4		0.16
3100	EN71-3:2013	n.d.		----
3110	EN71-3:2013 + A1:2014	4.20		0.34
3116	EN71-3:2013 + A1:2014	3.73		-0.09
3118	EN71-3:2013	5.22		1.26
3122	EN71-3:2013	3		-0.74
3124	EN71-3:2013	3.10		-0.65
3146	EN71-3:2014	3.96		0.12
3151	EN71-3:2013	4.02		0.18
3153	EN71-3:2013 + A1:2014	<10		----
3167	EN71-3:2013	4.12		0.27
3172	EN71-3:2013	3.8		-0.02
3176	EN71-3:2013	4.294		0.42
3182	EN71-3:2013 + A1:2014	3.016		-0.73
3185	EN71-3:2013 + A1:2014	<10		----
3190	EN71-3:2013	<5		----
3197	EN71-3:2013	3.6		-0.20
3199	EN71-3	4.49		0.60
3200	EN71-3:2013	4.14		0.28
3214	EN71-3:2013	3.99		0.15
3218	EN71-3:2013	4.0		0.16
3220	EN71-3	43.1	R(0.01)	35.40
3228	EN71-3:2013	3.7		-0.11
3233	EN71-3:2013 + A1:2014	3.827		0.00
3237	EN71-3:2013	3.83		0.00
3238	EN71-3:2013	3.53		-0.27
3246	EN71-3:2013	5.1		1.15
3248	EN71-3:2013	4		0.16
8005	ASTM F963	4		0.16

normality suspect
n 105
outliers 1
mean (n) 3.83
st.dev. (n) 0.529
R(calc.) 1.48
R(RR prEN71-3:13) 3.11

Determination of migration of Chromium as Cr on dried paint sample #15052; graphical results

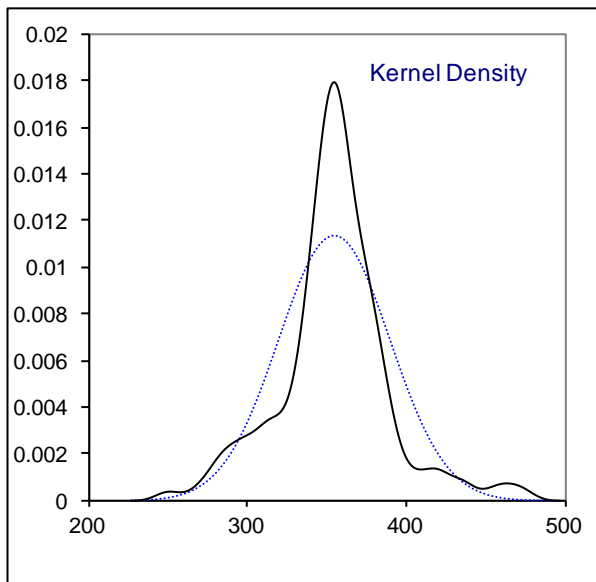
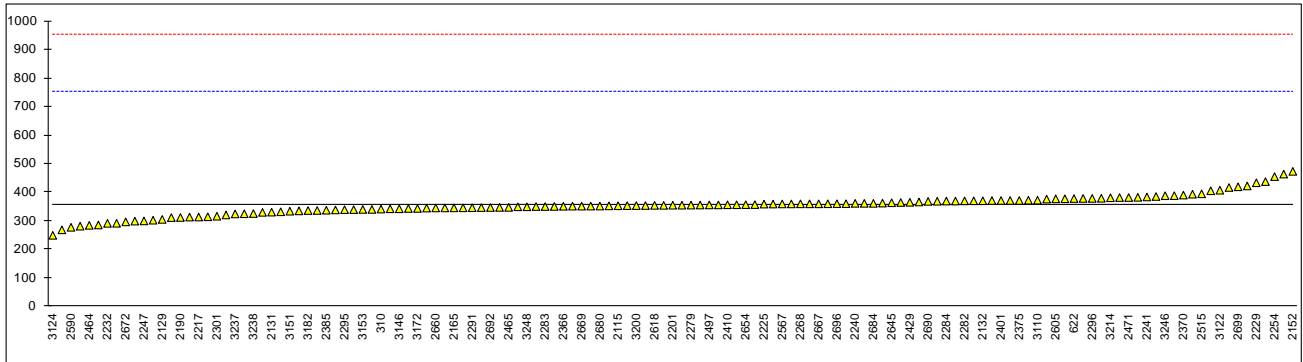


Determination of migration of Cobalt as Co on dried paint sample #15052; results in mg/kg

lab	method	value	mark	z(targ)	remarks
310	EN71-3	342		-0.07	
330	EN71-3:2013	302.994		-0.26	
551	EN71-3:2013	386	C	0.16	first reported: 508.5
622	EN71-3:2013	378.81		0.12	
2108	EN71-3:2013	330.5		-0.12	
2115	EN71-3:2014	353.66		-0.01	
2118	EN71-3:2013	312.115		-0.22	
2129	EN71-3:2013	305.77		-0.25	
2131	EN71-3:2013	331.250		-0.12	
2132	EN71-3:2013	371.05		0.08	
2135	EN71-3:2013	366.8		0.06	
2137	ISO8124-3:2013	343		-0.06	
2139	EN71-3:2013	372.083		0.09	
2146	EN71-3:2013	355		0.00	
2152	EN71-3:2013	474.1		0.60	
2156	EN71-3:2013	292.2		-0.32	
2165	EN71-3:2013	346.24		-0.04	
2172	EN71-3:2013 + A1:2014	347.8		-0.04	
2184	EN71-3:2013 + A1:2014	340.1		-0.07	
2190	EN71-3:2013	312.6		-0.21	
2201	EN71-3:2013	355.5		0.00	
2217	EN71-3:2013	314.05		-0.21	
2225	EN71-3:2013	359.4		0.02	
2226	EN71-3:2013	352.2		-0.01	
2229	EN71-3:2013 + A1:2014	434.16		0.40	
2232	EN71-3:2013	292		-0.32	
2234	EN71-3:2013	352.4		-0.01	
2236	EN71-3:2013	345.4		-0.05	
2240	EN71-3:2013	362.0		0.04	
2241	EN71-3:2013 + A1:2014	384.354		0.15	
2245	EN71-3:2013 + A1:2014	383.1		0.14	
2246	EN71-3:2013	313.9		-0.21	
2247	EN71-3:2013	300.44		-0.27	
2253	EN71-3:2013	353.21		-0.01	
2254	EN71-3:2013	455.743		0.51	
2255	EN71-3:2013	356.1		0.01	
2256	EN71-3:2013	394		0.20	
2264		----		----	
2268	EN71-3:2013 + A1:2014	360.32		0.03	
2269	EN71-3:2013	360.8471		0.03	
2271	EN71-3:2013	388.93		0.17	
2277	EN71-3:2013	362.9		0.04	
2279	EN71-3:2013	355.9		0.00	
2280	EN71-3:2013 + A1:2014	379.8		0.12	
2282	EN71-3:2013	370.75		0.08	
2283	EN71-3:2013 + A1:2014	350.9		-0.02	
2284	EN71-3:2013	370.02		0.08	
2289	EN71-3:2013	337		-0.09	
2290	EN71-3:2013	357.2		0.01	
2291	EN71-3:2013	346.8		-0.04	
2293		----		----	
2295	EN71-3:2013	339.9		-0.08	
2296	EN71-3:2013	379.341		0.12	
2297	EN71-3:2013	351.2		-0.02	
2299		----		----	
2301	EN71-3:2013	316.92		-0.19	
2320	EN71-3:2013	286.32		-0.35	
2366	EN71-3:2013 + A1:2014	351.8		-0.02	
2370	EN71-3:2013	391		0.18	
2372	EN71-3:2013	325.6		-0.15	
2375	EN71-3 + A1:2014	372.1		0.09	
2385	EN71-3	338		-0.09	
2390	EN71-3:2013	406.16		0.26	
2401	EN71-3:2013	372		0.09	
2403	EN71-3:2013	371.92		0.09	
2404	EN71-3:2013 + A1:2014	360.6		0.03	
2409	EN71-3:1995 + A1:2000	382.3		0.14	
2410	EN71-3:2013	357		0.01	
2412	EN71-3:2013	357.6		0.01	
2413	EN71-3:2013	353.99		0.00	
2429	EN71-3:2013	365.70		0.05	
2431	EN71-3:2013	354.4116		0.00	
2432		----		----	
2433	EN71-3:2013	438.26		0.42	
2442		----		----	
2459	EN71-3:2013	360.065		0.03	

2464	EN71-3:2013	285.0	-0.35	
2465	EN71-3:2013	347.89	-0.04	
2468	EN71-3:2013	362	0.04	
2471	EN71-3:2013	382.41	0.14	
2475	EN71-3 + A1	464.5	0.55	
2489	EN71-3:2013	321.40	-0.17	
2497	EN71-3:2013	356.50	0.01	first reported: 17.596
2504	EN71-3:2013	332.5	-0.11	
2515	EN71-3:2013	395.419	0.20	
2532	EN71-3:2013	282	-0.37	
2536	EN71-3:2013	359.6	0.02	
2553	EN71-3:2013	423	0.34	
2560	EN71-3:2013	371	0.08	
2566	EN71-3:2013	299.79	-0.28	
2567	EN71-3:2013	359.98	0.03	
2589	EN71-3:2013	350.8	-0.02	
2590	EN71-3:2013	278.15	-0.39	first reported: 1390.77
2601	EN71-3:2013	269.3	-0.43	
2605	EN71-3:2013	377.9	0.12	
2607		----	----	
2618	EN71-3:2013	354.98	0.00	
2622	EN71-3:2013	315	-0.20	
2642		----	----	
2643	EN71-3:2013	378.1	0.12	
2645	EN71-3:2013 + A1:2014	364.18	0.05	
2647	EN71-3:2013	370.03	0.08	
2652	EN71-3:2013	360.33	0.03	
2654	EN71-3:2014	357.40	0.01	
2659		----	----	
2660	EN71-3:2013	346	-0.05	
2667	EN71-3:2013	360.34	0.03	
2669	EN71-3:2013	352.2	-0.01	
2672	EN71-3:2014	297.2	-0.29	
2680	EN71-3:2013	352.6	-0.01	
2684	EN71-3:2013	362.0	0.04	
2690	EN71-3:2013	368.9	0.07	
2691	EN71-3:2013	365.1	0.05	
2692	EN71-3:2013	347.53	-0.04	
2693	EN71-3:2013 + A1:2014	373	0.09	
2694	EN71-3:2013	379.235	0.12	
2696	EN71-3:2013	360.786	0.03	
2697	EN71-3:2013	417.541	0.31	
2699	EN71-3:2013	420	0.33	
3100	EN71-3:2013	350	-0.03	
3110	EN71-3:2013 + A1:2014	373.16	0.09	
3116	EN71-3:2013 + A1:2014	346.4	-0.04	
3118	EN71-3:2013	369.4	0.07	
3122	EN71-3:2013	408	0.27	
3124	EN71-3:2013	250	-0.53	
3146	EN71-3:2014	343	-0.06	
3151	EN71-3:2013	334.5	-0.10	
3153	EN71-3:2013 + A1:2014	340.8	-0.07	
3167	EN71-3:2013	355.6	0.00	
3172	EN71-3:2013	344.2	-0.05	
3176	EN71-3:2013	347.152	-0.04	
3182	EN71-3:2013 + A1:2014	336.885	-0.09	
3185	EN71-3:2013 + A1:2014	340.8	-0.07	
3190	EN71-3:2013	356.5	0.01	
3197	EN71-3:2013	377.0	0.11	
3199		----	----	
3200	EN71-3:2013	354.15	0.00	
3214	EN71-3:2013	381.6	0.13	
3218	EN71-3:2013	346.0	-0.05	
3220	EN71-3	335.6	-0.10	
3228	EN71-3:2013	344.0	-0.06	
3233	EN71-3:2013 + A1:2014	338.9	-0.08	
3237	EN71-3:2013	324.93	-0.15	
3238	EN71-3:2013	326.36	-0.14	
3246	EN71-3:2013	388.8	0.17	
3248	EN71-3:2013	350	-0.03	
8005		----	----	
	normality	suspect		
	n	137		
	outliers	0		
	mean (n)	354.97		
	st.dev. (n)	35.252		
	R(calc.)	98.70		
	R(RR prEN71-3:13)	556.59		

Determination of migration of Cobalt as Co on dried paint sample #15052; graphical results



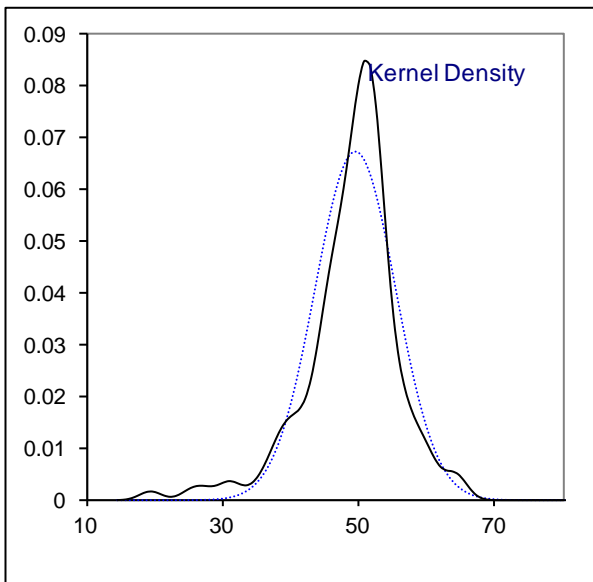
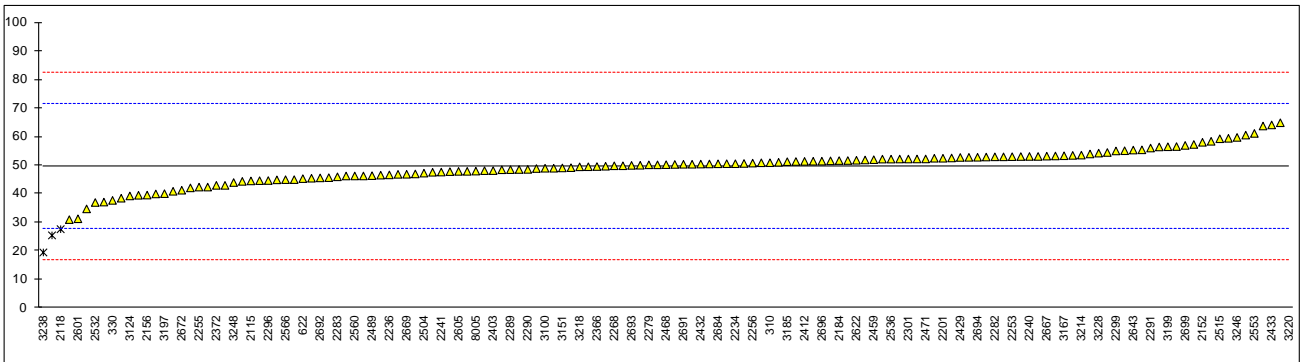
Determination of migration of Lead as Pb on dried paint sample #15052; results in mg/kg

lab	method	value	mark	z(targ)	remarks
310	EN71-3	50.94		0.12	
330	EN71-3:2013	37.738		-1.09	
551	EN71-3:2013	64.94		1.41	
622	EN71-3:2013	45.36	C	-0.39	first reported: <1
2108	EN71-3:2013	44.65		-0.45	
2115	EN71-3:2014	44.56		-0.46	
2118	EN71-3:2013	27.645	R(0.05)	-2.01	
2129	EN71-3:2013	50.676		0.10	
2131	EN71-3:2013	44.935		-0.43	
2132	EN71-3:2013	52.93		0.31	
2135	EN71-3:2013	45.7		-0.36	
2137	ISO8124-3:2013	48.15		-0.13	
2139	EN71-3:2013	47.915		-0.15	
2146	EN71-3:2013	53.3		0.34	
2152	EN71-3:2013	58.09		0.78	
2156	EN71-3:2013	39.6		-0.92	
2165	EN71-3:2013	53.50		0.36	
2172	EN71-3:2013 + A1:2014	48.90		-0.06	
2184	EN71-3:2013 + A1:2014	51.68		0.19	
2190	EN71-3:2013	42.4		-0.66	
2201	EN71-3:2013	52.5		0.27	
2217	EN71-3:2013	42.12		-0.68	
2225	EN71-3:2013	51.7		0.19	
2226	EN71-3:2013	45.5		-0.37	
2229	EN71-3:2013 + A1:2014	58.44		0.81	
2232	EN71-3:2013	38.5		-1.02	
2234	EN71-3:2013	50.59		0.09	
2236	EN71-3:2013	46.67		-0.27	
2240	EN71-3:2013	53.13		0.32	
2241	EN71-3:2013 + A1:2014	47.664		-0.18	
2245	EN71-3:2013 + A1:2014	50.4		0.07	
2246	EN71-3:2013	47.59		-0.18	
2247	EN71-3:2013	46.58		-0.28	
2253	EN71-3:2013	53.05		0.32	
2254	EN71-3:2013	37.150		-1.14	
2255	EN71-3:2013	42.4		-0.66	
2256	EN71-3:2013	50.8		0.11	
2264		----		----	
2268	EN71-3:2013 + A1:2014	49.863		0.03	
2269	EN71-3:2013	51.4531		0.17	
2271	EN71-3:2013	52.82		0.30	
2277	EN71-3:2013	52.6		0.28	
2279	EN71-3:2013	50.2		0.06	
2280	EN71-3:2013 + A1:2014	51.6		0.18	
2282	EN71-3:2013	53.0		0.31	
2283	EN71-3:2013 + A1:2014	46.0		-0.33	
2284	EN71-3:2013	50.59		0.09	
2289	EN71-3:2013	48.5		-0.10	
2290	EN71-3:2013	48.6		-0.09	
2291	EN71-3:2013	56.08		0.60	
2293	EN71-3:2013	56.46		0.63	
2295	EN71-3:2013	63.8		1.30	
2296	EN71-3:2013	44.696		-0.45	
2297	EN71-3:2013	55.14		0.51	
2299	INH-324	55.0627		0.50	
2301	EN71-3:2013	52.23		0.24	
2320	EN71-3:2013	34.758		-1.36	
2366	EN71-3:2013 + A1:2014	49.6		0.00	
2370	EN71-3:2013	52.5		0.27	
2372	EN71-3:2013	43.00		-0.60	
2375	EN71-3 + A1:2014	53.1		0.32	
2385	EN71-3	47		-0.24	
2390	EN71-3:2013	52.23		0.24	
2401	EN71-3:2013	53		0.31	
2403	EN71-3:2013	48.166		-0.13	
2404	EN71-3:2013 + A1:2014	51.9		0.21	
2409	EN71-3:1995 + A1:2000	31.00		-1.70	
2410	EN71-3:2013	54		0.40	
2412	EN71-3:2013	51.4		0.17	
2413	EN71-3:2013	49.53		-0.01	
2429	EN71-3:2013	52.78		0.29	
2431	EN71-3:2013	49.7035		0.01	
2432	in house	50.46		0.08	
2433	EN71-3:2013	64.18		1.34	
2442	in house	45.01		-0.42	

2459	EN71-3:2013	51.998		0.22
2464	EN71-3:2013	40.0		-0.88
2465	EN71-3:2013	54.52		0.45
2468	EN71-3:2013	50.25		0.06
2471	EN71-3:2013	52.26		0.24
2475	EN71-3 + A1	56.6		0.64
2489	EN71-3:2013	46.4		-0.29
2497	EN71-3:2013	40.93	C	-0.79
2504	EN71-3:2013	47.29		-0.21
2515	EN71-3:2013	59.333		0.89
2532	EN71-3:2013	37		-1.15
2536	EN71-3:2013	52.201		0.24
2553	EN71-3:2013	61.2		1.06
2560	EN71-3:2013	46.3		-0.30
2566	EN71-3:2013	45		-0.42
2567	EN71-3:2013	52.25		0.24
2589	EN71-3:2013	48.56		-0.09
2590	EN71-3:2013	39.53	C	-0.92
2601	EN71-3:2013	31.3		-1.68
2605	EN71-3:2013	47.9		-0.15
2607		----		----
2618	EN71-3:2013	59.48		0.91
2622	EN71-3:2013	51.8		0.20
2642	ASTM F963	44.4		-0.48
2643	EN71-3:2013	55.37		0.53
2645	EN71-3:2013 + A1:2014	57.33		0.71
2647	EN71-3:2013	51.08		0.14
2652	EN71-3:2013	60.611		1.01
2654	EN71-3:2014	46.29		-0.30
2659	ISO8124-3:2012	25.478	R(0.05)	-2.21
2660	EN71-3:2013	50.5		0.08
2667	EN71-3:2013	53.24		0.33
2669	EN71-3:2013	46.89		-0.25
2672	EN71-3:2014	41.30		-0.76
2680	EN71-3:2013	51.36		0.16
2684	EN71-3:2013	50.56		0.09
2690	EN71-3:2013	49.2		-0.04
2691	EN71-3:2013	50.39		0.07
2692	EN71-3:2013	45.62		-0.36
2693	EN71-3:2013 + A1:2014	50		0.04
2694	EN71-3:2013	52.846		0.30
2696	EN71-3:2013	51.480		0.17
2697	EN71-3:2013	53.1333		0.33
2699	EN71-3:2013	57		0.68
3100	EN71-3:2013	49		-0.05
3110	EN71-3:2013 + A1:2014	50.05		0.04
3116	EN71-3:2013 + A1:2014	49.87		0.03
3118	EN71-3:2013	55.45		0.54
3122	EN71-3:2013	43		-0.60
3124	EN71-3:2013	39.3		-0.94
3146	EN71-3:2014	46.3		-0.30
3151	EN71-3:2013	49.11		-0.04
3153	EN71-3:2013 + A1:2014	50.2		0.06
3167	EN71-3:2013	53.38		0.35
3172	EN71-3:2013	49.0		-0.05
3176	EN71-3:2013	46.863		-0.25
3182	EN71-3:2013 + A1:2014	47.8115		-0.16
3185	EN71-3:2013 + A1:2014	51.3		0.16
3190	EN71-3:2013	52.2		0.24
3197	EN71-3:2013	40.1		-0.87
3199	EN71-3	56.53		0.64
3200	EN71-3:2013	50.92		0.12
3214	EN71-3:2013	53.6		0.37
3218	EN71-3:2013	49.5		-0.01
3220	EN71-3	230.0	R(0.01)	16.54
3228	EN71-3:2013	54.3		0.43
3233	EN71-3:2013 + A1:2014	48.47		-0.10
3237	EN71-3:2013	50.33		0.07
3238	EN71-3:2013	19.5	R(0.01)	-2.76
3246	EN71-3:2013	59.8		0.94
3248	EN71-3:2013	44		-0.51
8005	ASTM F963	48		-0.15

normality	suspect
n	141
outliers	4
mean (n)	49.588
st.dev. (n)	5.9240
R(calc.)	16.587
R(RR prEN71-3:13)	30.546

Determination of migration of Lead as Pb on dried paint sample #15052; graphical results

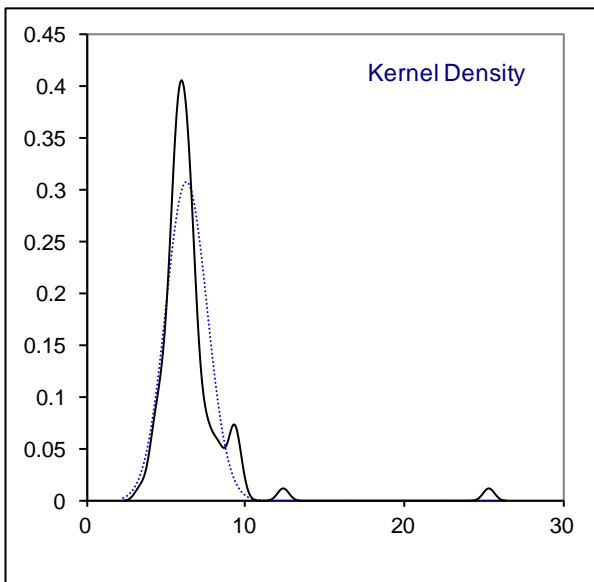
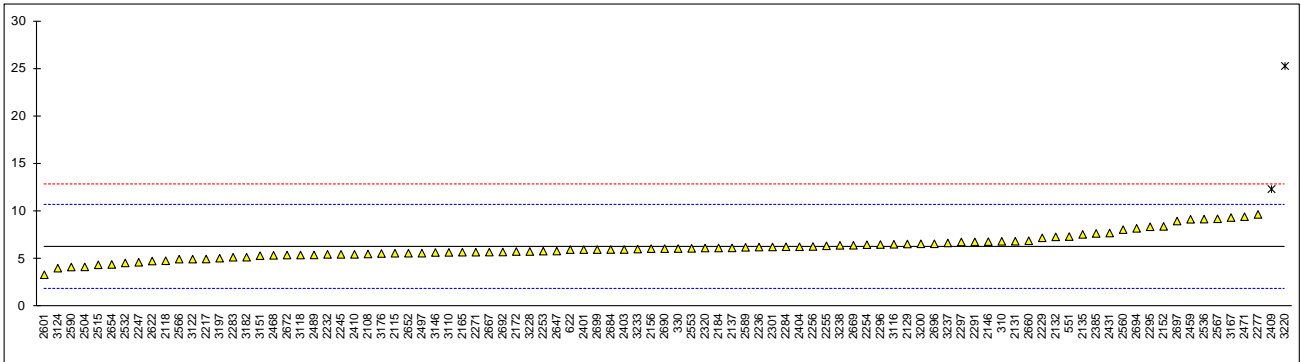


Determination of migration of Nickel as Ni on dried paint sample #15052; results in mg/kg

lab	method	value	mark	z(targ)	remarks
310	EN71-3	6.87		0.28	
330	EN71-3:2013	6.112		-0.07	
551	EN71-3:2013	7.37		0.51	
622	EN71-3:2013	6.00	C	-0.12	first reported: 12.98
2108	EN71-3:2013	5.54		-0.33	
2115	EN71-3:2014	5.62		-0.29	
2118	EN71-3:2013	4.83		-0.65	
2129	EN71-3:2013	6.591		0.15	
2131	EN71-3:2013	6.880		0.28	
2132	EN71-3:2013	7.34		0.49	
2135	EN71-3:2013	7.6		0.61	
2137	ISO8124-3:2013	6.18		-0.04	
2139	EN71-3:2013	<5		----	
2146	EN71-3:2013	6.84		0.26	
2152	EN71-3:2013	8.440		0.99	
2156	EN71-3:2013	6.1		-0.07	
2165	EN71-3:2013	5.73		-0.24	
2172	EN71-3:2013 + A1:2014	5.80		-0.21	
2184	EN71-3:2013 + A1:2014	6.17		-0.04	
2190	EN71-3:2013	<10		----	
2201	EN71-3:2013	<10		----	
2217	EN71-3:2013	5.01		-0.57	
2225	EN71-3:2013	<25.0		----	
2226	EN71-3:2013	n.d.		----	
2229	EN71-3:2013 + A1:2014	7.24		0.45	
2232	EN71-3:2013	5.50		-0.35	
2234	EN71-3:2013	<5		----	
2236	EN71-3:2013	6.266		0.00	
2240	EN71-3:2013	<5		----	
2241	EN71-3:2013 + A1:2014	<10		----	
2245	EN71-3:2013 + A1:2014	5.5		-0.35	
2246	EN71-3:2013	<10		----	
2247	EN71-3:2013	4.67		-0.73	
2253	EN71-3:2013	5.84		-0.19	
2254	EN71-3:2013	6.517		0.12	
2255	EN71-3:2013	6.4		0.06	
2256	EN71-3:2013	6.33		0.03	
2264		----		----	
2268	EN71-3:2013 + A1:2014	<10		----	
2269		----		----	
2271	EN71-3:2013	5.73		-0.24	
2277	EN71-3:2013	9.7		1.57	
2279	EN71-3:2013	<25		----	
2280	EN71-3:2013 + A1:2014	<10		----	
2282	EN71-3:2013	<10		----	
2283	EN71-3:2013 + A1:2014	5.2		-0.48	
2284	EN71-3:2013	6.3		0.02	
2289	EN71-3:2013	<10		----	
2290	EN71-3:2013	<10		----	
2291	EN71-3:2013	6.814		0.25	
2293		----		----	
2295	EN71-3:2013	8.4		0.98	
2296	EN71-3:2013	6.535		0.12	
2297	EN71-3:2013	6.81		0.25	
2299		----		----	
2301	EN71-3:2013	6.28		0.01	
2320	EN71-3:2013	6.167		-0.04	
2366	EN71-3:2013 + A1:2014	n.d.		----	
2370	EN71-3:2013	n.d.		----	
2372	EN71-3:2013	n.d.		----	
2375		----		----	
2385	EN71-3	7.7		0.66	
2390	EN71-3:2013	n.d.		----	
2401	EN71-3:2013	6		-0.12	
2403	EN71-3:2013	6.0104		-0.12	
2404	EN71-3:2013 + A1:2014	6.3		0.02	
2409	EN71-3:1995 + A1:2000	12.36	R(0.01)	2.78	
2410	EN71-3:2013	5.5		-0.35	
2412	EN71-3:2013	≤5		----	
2413	EN71-3:2013	<10		----	
2429	EN71-3:2013	<10		----	
2431	EN71-3:2013	7.7430		0.68	
2432		----		----	
2433	EN71-3:2013	n.d.		----	
2442		----		----	
2459	EN71-3:2013	9.188		1.33	

2464		----	W	----	first reported: 11.5
2465	EN71-3:2013	<5		----	
2468	EN71-3:2013	5.40		-0.39	
2471	EN71-3:2013	9.46		1.46	
2475		----		----	
2489	EN71-3:2013	5.44		-0.38	
2497	EN71-3:2013	5.626	C	-0.29	first reported: 0.277
2504	EN71-3:2013	4.185		-0.95	
2515	EN71-3:2013	4.402		-0.85	
2532	EN71-3:2013	4.6		-0.76	
2536	EN71-3:2013	9.205		1.34	
2553	EN71-3:2013	6.13		-0.06	
2560	EN71-3:2013	8.1		0.84	
2566	EN71-3:2013	5.0		-0.58	
2567	EN71-3:2013	9.24		1.36	
2589	EN71-3:2013	6.240		-0.01	
2590	EN71-3:2013	4.17	C	-0.95	first reported: 20.87
2601	EN71-3:2013	3.36		-1.32	
2605	EN71-3:2013	n.d.		----	
2607		----		----	
2618		----		----	
2622	EN71-3:2013	4.80		-0.67	
2642		----		----	
2643		----		----	
2645	EN71-3:2013 + A1:2014	n.d.		----	
2647	EN71-3:2013	5.85		-0.19	
2652	EN71-3:2013	5.6231		-0.29	
2654	EN71-3:2014	4.44		-0.83	
2659		----		----	
2660	EN71-3:2013	6.93		0.30	
2667	EN71-3:2013	5.74		-0.24	
2669	EN71-3:2013	6.457		0.09	
2672	EN71-3:2014	5.428		-0.38	
2680		----		----	
2684	EN71-3:2013	6.01		-0.12	
2690	EN71-3:2013	6.1		-0.07	
2691	EN71-3:2013	<25		----	
2692	EN71-3:2013	5.75		-0.23	
2693		----		----	
2694	EN71-3:2013	8.235		0.90	
2696	EN71-3:2013	6.612		0.16	
2697	EN71-3:2013	9.00330		1.25	
2699	EN71-3:2013	6		-0.12	
3100	EN71-3:2013	n.d.		----	
3110	EN71-3:2013 + A1:2014	5.71		-0.25	
3116	EN71-3:2013 + A1:2014	6.56		0.14	
3118	EN71-3:2013	5.43		-0.38	
3122	EN71-3:2013	5		-0.58	
3124	EN71-3:2013	4.05		-1.01	
3146	EN71-3:2014	5.70		-0.26	
3151	EN71-3:2013	5.363		-0.41	
3153	EN71-3:2013 + A1:2014	<10		----	
3167	EN71-3:2013	9.37		1.42	
3172	EN71-3:2013	<10		----	
3176	EN71-3:2013	5.591		-0.31	
3182	EN71-3:2013 + A1:2014	5.2025		-0.48	
3185	EN71-3:2013 + A1:2014	<10		----	
3190	EN71-3:2013	<10		----	
3197	EN71-3:2013	5.1		-0.53	
3199		----		----	
3200	EN71-3:2013	6.61		0.16	
3214	EN71-3:2013	<10		----	
3218	EN71-3:2013	<10		----	
3220	EN71-3	25.3	R(0.01)	8.69	
3228	EN71-3:2013	5.8		-0.21	
3233	EN71-3:2013 + A1:2014	6.057		-0.09	
3237	EN71-3:2013	6.70		0.20	
3238	EN71-3:2013	6.45		0.09	
3246	EN71-3:2013	n.d.		----	
3248	EN71-3:2013	<10		----	
8005		----		----	
	normality	OK			
	n	91			
	outliers	2			
	mean (n)	6.26			
	st.dev. (n)	1.297			
	R(calc.)	3.63			
	R(RR prEN71-3:13)	6.14			

Determination of migration of Nickel as Ni on dried paint sample #15052; graphical results



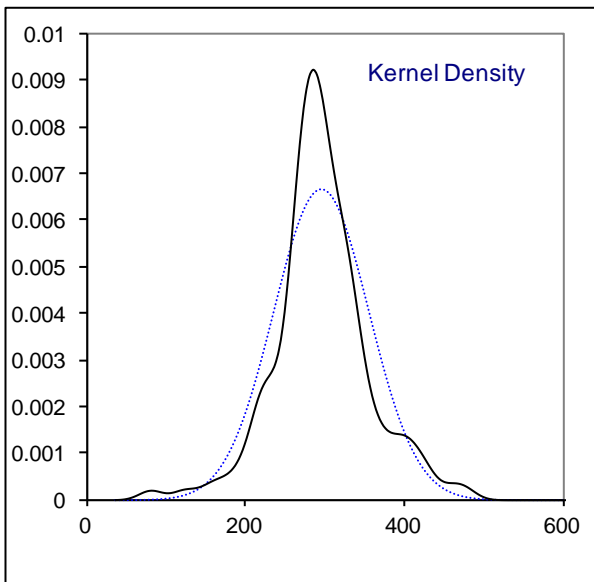
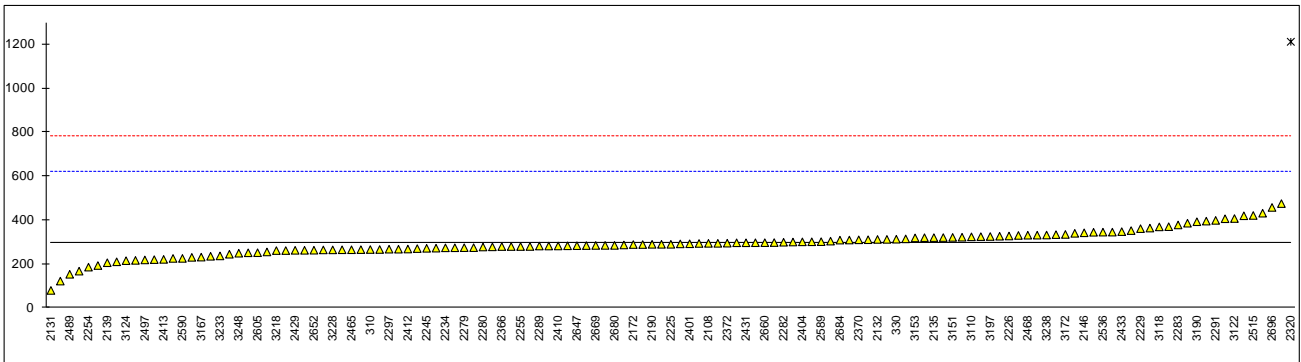
Determination of migration of Aluminium as Al on plaster sample #15053; results in mg/kg

lab	method	value	mark	z(targ)	remarks
310	EN71-3	266.8		-0.17	
330	EN71-3:2013	313.748		0.12	
551	EN71-3:2013	407		0.69	
622	EN71-3:2013	340.6		0.28	
2108	EN71-3:2013	294.9		0.00	
2115	EN71-3:2014	284.75		-0.06	
2118	EN71-3:2013	168.32		-0.78	
2129	EN71-3:2013	311.445		0.10	
2131	EN71-3:2013	80.501		-1.32	
2132	EN71-3:2013	312.74		0.11	
2135	EN71-3:2013	321		0.16	
2137	ISO8124-3:2013	305.02		0.06	
2139	EN71-3:2013	206.667		-0.54	
2146	EN71-3:2013	343		0.30	
2152	EN71-3:2013	193.9		-0.62	
2156	EN71-3:2013	287.6		-0.05	
2165	EN71-3:2013	282.74		-0.07	
2172	EN71-3:2013 + A1:2014	289.5		-0.03	
2184	EN71-3:2013 + A1:2014	251.9		-0.27	
2190	EN71-3:2013	290.5		-0.03	
2201	EN71-3:2013	289.5		-0.03	
2217	EN71-3:2013	301		0.04	
2225	EN71-3:2013	290.6		-0.03	
2226	EN71-3:2013	328.4		0.21	
2229	EN71-3:2013 + A1:2014	361.89		0.41	
2232	EN71-3:2013	279		-0.10	
2234	EN71-3:2013	274.52		-0.13	
2236		----		----	
2240	EN71-3:2013	285.6		-0.06	
2241	EN71-3:2013 + A1:2014	<500		----	
2245	EN71-3:2013 + A1:2014	272.3		-0.14	
2246	EN71-3:2013	332.2		0.23	
2247	EN71-3:2013	266.90		-0.17	
2253	EN71-3:2013	283.76		-0.07	
2254	EN71-3:2013	186.573		-0.67	
2255	EN71-3:2013	280.44		-0.09	
2256	EN71-3:2013	310		0.09	
2264		----		----	
2268	EN71-3:2013 + A1:2014	263.25		-0.20	
2269	EN71-3:2013	266.2594		-0.18	
2271	EN71-3:2013	297.82		0.02	
2277	EN71-3:2013	255.8		-0.24	
2279	EN71-3:2013	275.2		-0.12	
2280	EN71-3:2013 + A1:2014	278.3		-0.10	
2282	EN71-3:2013	300		0.03	
2283	EN71-3:2013 + A1:2014	378.7		0.52	
2284	EN71-3:2013	290.52		-0.03	
2289	EN71-3:2013	282.7		-0.08	
2290	EN71-3:2013	370.8		0.47	
2291	EN71-3:2013	399.5		0.64	
2293		----		----	
2295	EN71-3:2013	364.5		0.43	
2296	EN71-3:2013	327.367		0.20	
2297	EN71-3:2013	268.3		-0.16	
2299		----		----	
2301	EN71-3:2013	325.46		0.19	
2320	EN71-3:2013	1213	C,R(0.01)	5.66	first reported: 89.503
2366	EN71-3:2013 + A1:2014	280.3		-0.09	
2370	EN71-3:2013	311		0.10	
2372	EN71-3:2013	295.8		0.01	
2375	EN71-3 + A1:2014	315.3		0.13	
2385	EN71-3	236		-0.36	
2390	EN71-3:2013	432.32		0.85	
2401	EN71-3:2013	293		-0.01	
2403	EN71-3:2013	330.91		0.22	
2404	EN71-3:2013 + A1:2014	301.8		0.04	
2409	EN71-3:1995 + A1:2000	320.80		0.16	
2410	EN71-3:2013	283		-0.07	
2412	EN71-3:2013	269		-0.16	
2413	EN71-3:2013	221.90		-0.45	
2429	EN71-3:2013	263.20		-0.20	
2431	EN71-3:2013	297.5598		0.02	
2432		----		----	
2433	EN71-3:2013	348.30		0.33	
2442		----		----	

2459	EN71-3:2013	346.047		0.32	
2464	EN71-3:2013	265.7		-0.18	
2465	EN71-3:2013	265.82		-0.18	
2468	EN71-3:2013	332		0.23	
2471	EN71-3:2013	352.98		0.36	
2475		----		----	
2489	EN71-3:2013	154.0		-0.87	
2497	EN71-3:2013	219.41	C	-0.47	first reported: 10.69
2504	EN71-3:2013	334.592		0.24	
2515	EN71-3:2013	421.949		0.78	
2532	EN71-3:2013	220.8	C	-0.46	first reported: 76.44
2536	EN71-3:2013	346.012		0.32	
2553	EN71-3:2013	271.0		-0.15	
2560	EN71-3:2013	298.5	C	0.02	first reported: 46.5
2566	EN71-3:2013	280.4		-0.09	
2567		----		----	
2589	EN71-3:2013	302.6		0.05	
2590	EN71-3:2013	226.35	C	-0.42	first reported:1131.77
2601	EN71-3:2013	294.4		0.00	
2605	EN71-3:2013	252.3		-0.26	
2607		----		----	
2618	EN71-3:2013	386.68		0.57	
2622	EN71-3:2013	274.8		-0.12	
2642		----		----	
2643	EN71-3:2013	217.35		-0.48	
2645	EN71-3:2013 + A1:2014	231.11		-0.39	
2647	EN71-3:2013	284.24		-0.07	
2652	EN71-3:2013	263.69		-0.19	
2654	EN71-3:2014	396.20		0.62	
2659		----		----	
2660	EN71-3:2013	298		0.02	
2667	EN71-3:2013	275.24		-0.12	
2669	EN71-3:2013	285.4		-0.06	
2672	EN71-3:2014	210.9		-0.52	
2680	EN71-3:2013	285.61		-0.06	
2684	EN71-3:2013	309.6		0.09	
2690	EN71-3:2013	262.1		-0.20	
2691	EN71-3:2013	265.01		-0.18	
2692	EN71-3:2013	280.65		-0.09	
2693	EN71-3:2013 + A1:2014	295		0.00	
2694	EN71-3:2013	245.358		-0.31	
2696	EN71-3:2013	458.513		1.01	
2697	EN71-3:2013	226.251		-0.42	
2699	EN71-3:2013	476		1.12	
3100	EN71-3:2013	273		-0.14	
3110	EN71-3:2013 + A1:2014	324.67		0.18	
3116	EN71-3:2013 + A1:2014	321.3		0.16	
3118	EN71-3:2013	369.9		0.46	
3122	EN71-3:2013	408		0.70	
3124	EN71-3:2013	216		-0.49	
3146	EN71-3:2014	313		0.11	
3151	EN71-3:2013	322		0.17	
3153	EN71-3:2013 + A1:2014	319.8		0.15	
3167	EN71-3:2013	232.2		-0.39	
3172	EN71-3:2013	335.5		0.25	
3176	EN71-3:2013	345.40		0.31	
3182	EN71-3:2013 + A1:2014	292.417		-0.02	
3185	EN71-3:2013 + A1:2014	302.1		0.04	
3190	EN71-3:2013	393.4		0.61	
3197	EN71-3:2013	326.1		0.19	
3199		----		----	
3200	EN71-3:2013	297.52		0.02	
3214	EN71-3:2013	268.3		-0.16	
3218	EN71-3:2013	262.0		-0.20	
3220	EN71-3	123.0		-1.06	
3228	EN71-3:2013	265.2		-0.18	
3233	EN71-3:2013 + A1:2014	237.7		-0.35	
3237	EN71-3:2013	322.89		0.17	
3238	EN71-3:2013	332.8		0.23	
3246	EN71-3:2013	420.55		0.77	
3248	EN71-3:2013	250		-0.28	
8005		----		----	

normality	suspect
n	132
outliers	1
mean (n)	294.904
st.dev. (n)	59.9894
R(calc.)	167.970
R(RR prEN71-3:13)	454.152

Determination of migration of Aluminium as Al on plaster sample #15053; graphical results



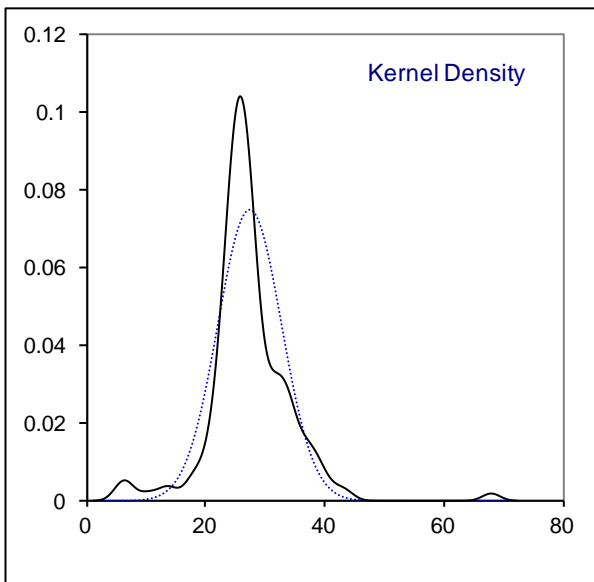
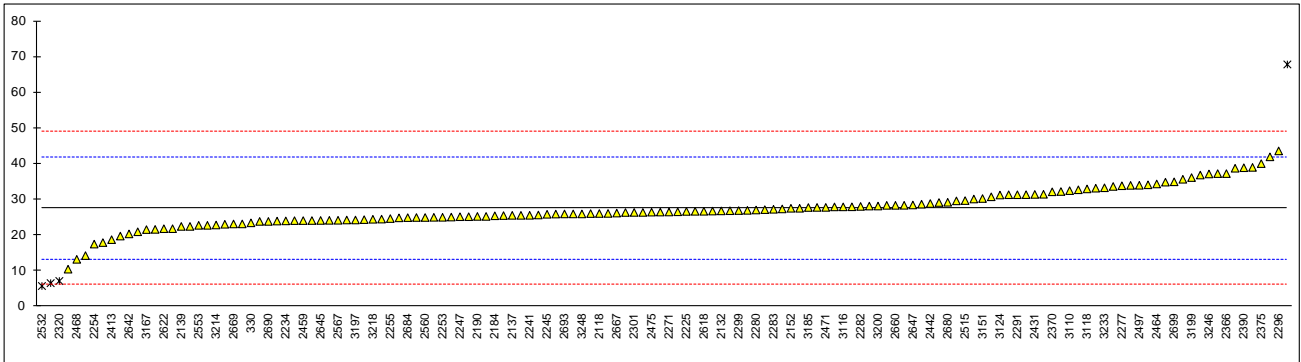
Determination of migration of Lead as Pb on plaster sample #15053; results in mg/kg

lab	method	value	mark	z(targ)	remarks
310	EN71-3	30.18		0.37	
330	EN71-3:2013	23.502		-0.56	
551	EN71-3:2013	25.96		-0.22	
622	EN71-3:2013	10.514	C	-2.38	first reported: 20285.02
2108	EN71-3:2013	25.05		-0.34	
2115	EN71-3:2014	32.28		0.67	
2118	EN71-3:2013	26.12		-0.19	
2129	EN71-3:2013	27.582		0.01	
2131	EN71-3:2013	31.507		0.56	
2132	EN71-3:2013	26.85		-0.09	
2135	EN71-3:2013	30.8		0.46	
2137	ISO8124-3:2013	25.6		-0.27	
2139	EN71-3:2013	22.497		-0.70	
2146	EN71-3:2013	24.3		-0.45	
2152	EN71-3:2013	27.58		0.01	
2156	EN71-3:2013	23.9		-0.50	
2165	EN71-3:2013	26.52		-0.14	
2172	EN71-3:2013 + A1:2014	25.54		-0.27	
2184	EN71-3:2013 + A1:2014	25.48		-0.28	
2190	EN71-3:2013	25.3		-0.31	
2201	EN71-3:2013	25.7		-0.25	
2217	EN71-3:2013	24.15		-0.47	
2225	EN71-3:2013	26.7		-0.11	
2226	EN71-3:2013	38.8		1.58	
2229	EN71-3:2013 + A1:2014	37.30		1.37	
2232	EN71-3:2013	23.2		-0.60	
2234	EN71-3:2013	24.05		-0.48	
2236		----		----	
2240	EN71-3:2013	26.73		-0.11	
2241	EN71-3:2013 + A1:2014	25.611		-0.26	
2245	EN71-3:2013 + A1:2014	25.9		-0.22	
2246	EN71-3:2013	31.38		0.54	
2247	EN71-3:2013	25.22		-0.32	
2253	EN71-3:2013	25.05		-0.34	
2254	EN71-3:2013	17.544		-1.39	
2255	EN71-3:2013	24.7		-0.39	
2256	EN71-3:2013	26.9		-0.08	
2264		----		----	
2268	EN71-3:2013 + A1:2014	25.223		-0.32	
2269	EN71-3:2013	24.5494		-0.41	
2271	EN71-3:2013	26.54		-0.13	
2277	EN71-3:2013	33.9		0.89	
2279	EN71-3:2013	25.3		-0.31	
2280	EN71-3:2013 + A1:2014	27.1		-0.06	
2282	EN71-3:2013	28.1		0.08	
2283	EN71-3:2013 + A1:2014	27.3		-0.03	
2284	EN71-3:2013	26.10		-0.20	
2289	EN71-3:2013	24.9		-0.36	
2290	EN71-3:2013	28.2		0.10	
2291	EN71-3:2013	31.38		0.54	
2293	EN71-3:2013	32.77		0.74	
2295	EN71-3:2013	34.0		0.91	
2296	EN71-3:2013	43.665		2.26	
2297	EN71-3:2013	28.42		0.13	
2299	INH-324	26.9444		-0.08	
2301	EN71-3:2013	26.42		-0.15	
2320	EN71-3:2013	7.198	R(0.05)	-2.84	
2366	EN71-3:2013 + A1:2014	37.3		1.37	
2370	EN71-3:2013	32.2		0.66	
2372	EN71-3:2013	26.14		-0.19	
2375	EN71-3 + A1:2014	40.1		1.76	
2385	EN71-3	25		-0.35	
2390	EN71-3:2013	38.95		1.60	
2401	EN71-3:2013	27		-0.07	
2403	EN71-3:2013	27.400		-0.01	
2404	EN71-3:2013 + A1:2014	26.8		-0.10	
2409	EN71-3:1995 + A1:2000	34.16		0.93	
2410	EN71-3:2013	21		-0.91	
2412	EN71-3:2013	26.4		-0.15	
2413	EN71-3:2013	18.79		-1.22	
2429	EN71-3:2013	25.12		-0.33	
2431	EN71-3:2013	31.4645		0.55	
2432	in house	23.10		-0.62	
2433	EN71-3:2013	29.66		0.30	
2442	in house	28.92		0.20	
2459	EN71-3:2013	24.132		-0.47	

2464	EN71-3:2013	34.4		0.96	
2465	EN71-3:2013	24.12		-0.47	
2468	EN71-3:2013	13.27		-1.99	
2471	EN71-3:2013	27.83		0.05	
2475	EN71-3 + A1	26.5		-0.14	
2489	EN71-3:2013	6.60	R(0.05)	-2.92	
2497	EN71-3:2013	34.03	C	0.91	first reported: 1.646
2504	EN71-3:2013	39.041		1.61	
2515	EN71-3:2013	29.737		0.31	
2532	EN71-3:2013	5.8	R(0.05)	-3.04	
2536	EN71-3:2013	24.202		-0.46	
2553	EN71-3:2013	22.8		-0.66	
2560	EN71-3:2013	25		-0.35	
2566	EN71-3:2013	29.2		0.24	
2567	EN71-3:2013	24.22		-0.46	
2589	EN71-3:2013	24.40		-0.43	
2590	EN71-3:2013	17.97	C	-1.33	first reported: 108.33
2601	EN71-3:2013	28.4		0.13	
2605	EN71-3:2013	26.6		-0.13	
2607		-----		-----	
2618	EN71-3:2013	26.74		-0.11	
2622	EN71-3:2013	21.86		-0.79	
2642	ASTM F963	20.4		-0.99	
2643	EN71-3:2013	19.795		-1.08	
2645	EN71-3:2013 + A1:2014	24.17		-0.47	
2647	EN71-3:2013	28.51		0.14	
2652	EN71-3:2013	28.730		0.17	
2654	EN71-3:2014	33.21		0.80	
2659	ISO8124-3:2012	14.323		-1.84	
2660	EN71-3:2013	28.4		0.13	
2667	EN71-3:2013	26.24		-0.18	
2669	EN71-3:2013	23.19		-0.60	
2672	EN71-3:2014	27.97		0.07	
2680	EN71-3:2013	29.26		0.25	
2684	EN71-3:2013	24.96		-0.36	
2690	EN71-3:2013	23.9		-0.50	
2691	EN71-3:2013	26.42		-0.15	
2692	EN71-3:2013	22.80		-0.66	
2693	EN71-3:2013 + A1:2014	26		-0.21	
2694	EN71-3:2013	21.865		-0.79	
2696	EN71-3:2013	21.665		-0.82	
2697	EN71-3:2013	27.8248		0.04	
2699	EN71-3:2013	35		1.05	
3100	EN71-3:2013	26		-0.21	
3110	EN71-3:2013 + A1:2014	32.52		0.70	
3116	EN71-3:2013 + A1:2014	27.98		0.07	
3118	EN71-3:2013	33.01		0.77	
3122	EN71-3:2013	42		2.03	
3124	EN71-3:2013	31.3		0.53	
3146	EN71-3:2014	31.4		0.54	
3151	EN71-3:2013	30.317		0.39	
3153	EN71-3:2013 + A1:2014	27.2		-0.04	
3167	EN71-3:2013	21.61		-0.82	
3172	EN71-3:2013	36.9		1.31	
3176	EN71-3:2013	35.712		1.15	
3182	EN71-3:2013 + A1:2014	34.9055		1.04	
3185	EN71-3:2013 + A1:2014	27.8		0.04	
3190	EN71-3:2013	22.5		-0.70	
3197	EN71-3:2013	24.3		-0.45	
3199	EN71-3	36.19		1.21	
3200	EN71-3:2013	28.21		0.10	
3214	EN71-3:2013	22.9		-0.64	
3218	EN71-3:2013	24.5		-0.42	
3220	EN71-3	67.9	R(0.01)	5.65	
3228	EN71-3:2013	25.6		-0.27	
3233	EN71-3:2013 + A1:2014	33.33		0.81	
3237	EN71-3:2013	24.00		-0.49	
3238	EN71-3:2013	33.7		0.87	
3246	EN71-3:2013	37.2		1.36	
3248	EN71-3:2013	26		-0.21	
8005	ASTM F963	28		0.07	

normality	suspect
n	140
outliers	4
mean (n)	27.50
st.dev. (n)	5.321
R(calc.)	14.90
R(RR prEN71-3:13)	20.02

Determination of migration of Lead as Pb on plaster sample #15053; graphical results



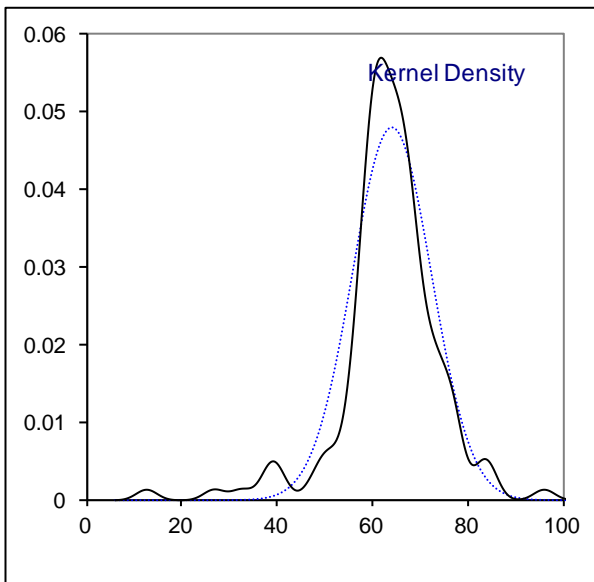
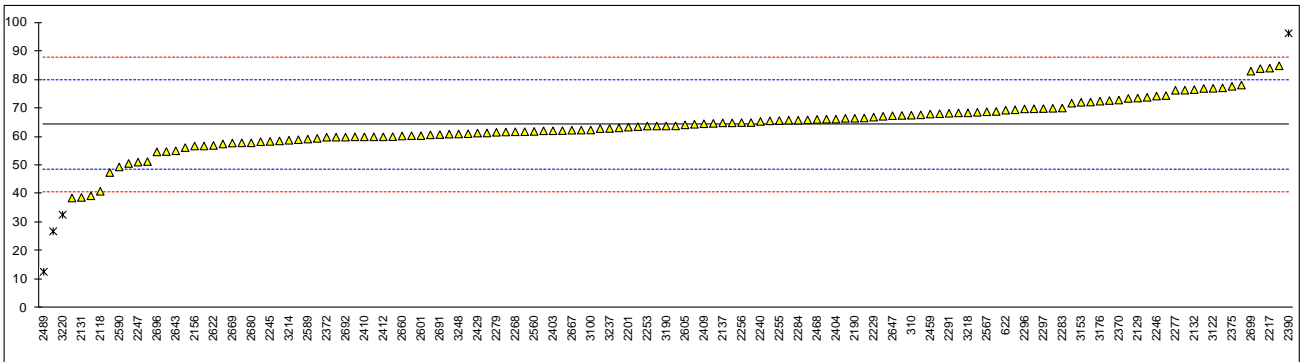
Determination of migration of Manganese as Mn on plaster sample #15053; results in mg/kg

lab	method	value	mark	z(targ)	remarks
310	EN71-3	67.58		0.42	
330	EN71-3:2013	72.729		1.08	
551	EN71-3:2013	76.95		1.62	
622	EN71-3:2013	69.34		0.65	
2108	EN71-3:2013	65.95		0.22	
2115	EN71-3:2014	74.46		1.30	
2118	EN71-3:2013	40.93		-2.98	
2129	EN71-3:2013	73.593		1.19	
2131	EN71-3:2013	38.773		-3.25	
2132	EN71-3:2013	76.54		1.57	
2135	EN71-3:2013	61.8		-0.31	
2137	ISO8124-3:2013	64.9		0.08	
2139	EN71-3:2013	58.569	C	-0.73	first reported: 40.337
2146	EN71-3:2013	57.9		-0.81	
2152	EN71-3:2013	65.82		0.20	
2156	EN71-3:2013	56.8		-0.95	
2165	EN71-3:2013	66.19		0.25	
2172	EN71-3:2013 + A1:2014	63.57		-0.09	
2184	EN71-3:2013 + A1:2014	60.06		-0.54	
2190	EN71-3:2013	66.5		0.29	
2201	EN71-3:2013	63.4		-0.11	
2217	EN71-3:2013	84.08		2.53	
2225	EN71-3:2013	63.8		-0.06	
2226	EN71-3:2013	64.9		0.08	
2229	EN71-3:2013 + A1:2014	66.91		0.34	
2232	EN71-3:2013	39.35		-3.18	
2234	EN71-3:2013	59.88		-0.56	
2236		----		----	
2240	EN71-3:2013	65.4		0.15	
2241	EN71-3:2013 + A1:2014	<150		----	
2245	EN71-3:2013 + A1:2014	58.4		-0.75	
2246	EN71-3:2013	74.29		1.28	
2247	EN71-3:2013	51.15		-1.67	
2253	EN71-3:2013	63.78		-0.06	
2254	EN71-3:2013	63.144		-0.14	
2255	EN71-3:2013	65.7		0.18	
2256	EN71-3:2013	65.0		0.09	
2264		----		----	
2268	EN71-3:2013 + A1:2014	61.774		-0.32	
2269	EN71-3:2013	62.3580		-0.24	
2271	EN71-3:2013	65.60		0.17	
2277	EN71-3:2013	76.3		1.54	
2279	EN71-3:2013	61.6		-0.34	
2280	EN71-3:2013 + A1:2014	61.7		-0.33	
2282	EN71-3:2013	60.0		-0.54	
2283	EN71-3:2013 + A1:2014	70.1		0.74	
2284	EN71-3:2013	65.82		0.20	
2289	EN71-3:2013	60.7		-0.45	
2290	EN71-3:2013	66.6		0.30	
2291	EN71-3:2013	68.26		0.51	
2293		----		----	
2295	EN71-3:2013	68.9		0.59	
2296	EN71-3:2013	69.790		0.71	
2297	EN71-3:2013	69.91		0.72	
2299		----		----	
2301	EN71-3:2013	69.84		0.71	
2320	EN71-3:2013	38.561		-3.28	
2366	EN71-3:2013 + A1:2014	68.6		0.55	
2370	EN71-3:2013	72.9		1.10	
2372	EN71-3:2013	59.87		-0.56	
2375	EN71-3 + A1:2014	77.7		1.71	
2385	EN71-3	70		0.73	
2390	EN71-3:2013	96.29	R(0.05)	4.09	
2401	EN71-3:2013	60		-0.54	
2403	EN71-3:2013	62.129		-0.27	
2404	EN71-3:2013 + A1:2014	66.2		0.25	
2409	EN71-3:1995 + A1:2000	64.59		0.04	
2410	EN71-3:2013	60		-0.54	
2412	EN71-3:2013	60		-0.54	
2413	EN71-3:2013	54.85		-1.20	
2429	EN71-3:2013	61.32		-0.38	
2431	EN71-3:2013	69.4704		0.66	
2432		----		----	
2433	EN71-3:2013	61.36		-0.37	
2442		----		----	

2459	EN71-3:2013	67.986		0.48	
2464	EN71-3:2013	58.3		-0.76	
2465	EN71-3:2013	62.12		-0.27	
2468	EN71-3:2013	66.11		0.24	
2471	EN71-3:2013	59.46		-0.61	
2475		----		----	
2489	EN71-3:2013	12.72	R(0.01)	-6.57	
2497	EN71-3:2013	61.10	C	-0.40	first reported: 3.317
2504	EN71-3:2013	73.839		1.22	
2515	EN71-3:2013	51.353		-1.65	
2532	EN71-3:2013	47.5	C	-2.14	first reported: 17.88
2536	EN71-3:2013	68.104		0.49	
2553	EN71-3:2013	26.9	R(0.05)	-4.77	
2560	EN71-3:2013	61.9	C	-0.30	first reported: 18.7
2566	EN71-3:2013	60.4		-0.49	
2567	EN71-3:2013	68.78		0.58	
2589	EN71-3:2013	59.22		-0.64	
2590	EN71-3:2013	49.46	C	-1.89	first reported: 247.32
2601	EN71-3:2013	60.4		-0.49	
2605	EN71-3:2013	64.2		-0.01	
2607		----		----	
2618	EN71-3:2013	67.20		0.37	
2622	EN71-3:2013	56.99		-0.93	
2642		----		----	
2643	EN71-3:2013	55.12		-1.17	
2645	EN71-3:2013 + A1:2014	62.17		-0.27	
2647	EN71-3:2013	67.41		0.40	
2652	EN71-3:2013	60.953		-0.42	
2654	EN71-3:2014	78.14		1.77	
2659		----		----	
2660	EN71-3:2013	60.3		-0.51	
2667	EN71-3:2013	62.32		-0.25	
2669	EN71-3:2013	57.83		-0.82	
2672	EN71-3:2014	67.70		0.44	
2680	EN71-3:2013	57.90		-0.81	
2684	EN71-3:2013	56.23		-1.02	
2690	EN71-3:2013	59.0		-0.67	
2691	EN71-3:2013	60.80		-0.44	
2692	EN71-3:2013	59.89		-0.56	
2693	EN71-3:2013 + A1:2014	65		0.09	
2694	EN71-3:2013	57.505		-0.86	
2696	EN71-3:2013	54.726		-1.22	
2697	EN71-3:2013	62.8886		-0.18	
2699	EN71-3:2013	83		2.39	
3100	EN71-3:2013	62.4		-0.24	
3110	EN71-3:2013 + A1:2014	<100		----	
3116	EN71-3:2013 + A1:2014	63.84		-0.05	
3118	EN71-3:2013	76.35		1.54	
3122	EN71-3:2013	77		1.62	
3124	EN71-3:2013	84.9		2.63	
3146	EN71-3:2014	71.8		0.96	
3151	EN71-3:2013	77.17		1.65	
3153	EN71-3:2013 + A1:2014	72.1		1.00	
3167	EN71-3:2013	50.68		-1.73	
3172	EN71-3:2013	72.2		1.01	
3176	EN71-3:2013	72.503		1.05	
3182	EN71-3:2013 + A1:2014	73.4575		1.17	
3185	EN71-3:2013 + A1:2014	68.4		0.53	
3190	EN71-3:2013	63.8		-0.06	
3197	EN71-3:2013	64.4		0.02	
3199		----		----	
3200	EN71-3:2013	66.48		0.28	
3214	EN71-3:2013	58.8		-0.70	
3218	EN71-3:2013	68.4		0.53	
3220	EN71-3	32.7	R(0.05)	-4.03	
3228	EN71-3:2013	56.8		-0.95	
3233	EN71-3:2013 + A1:2014	64.71		0.06	
3237	EN71-3:2013	62.93		-0.17	
3238	EN71-3:2013	83.9		2.50	
3246	EN71-3:2013	67.5		0.41	
3248	EN71-3:2013	61		-0.42	
8005		----		----	

normality	suspect
n	129
outliers	4
mean (n)	64.26
st.dev. (n)	8.326
R(calc.)	23.31
R(RR prEN71-3:13)	21.95

Determination of migration of Manganese as Mn on plaster sample #15053; graphical results

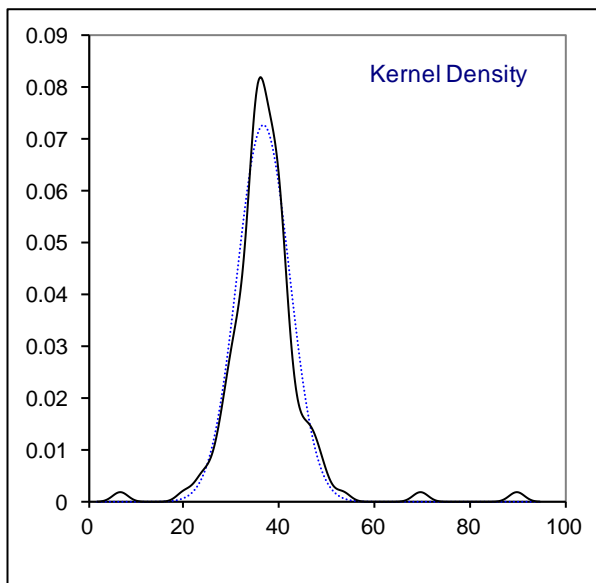
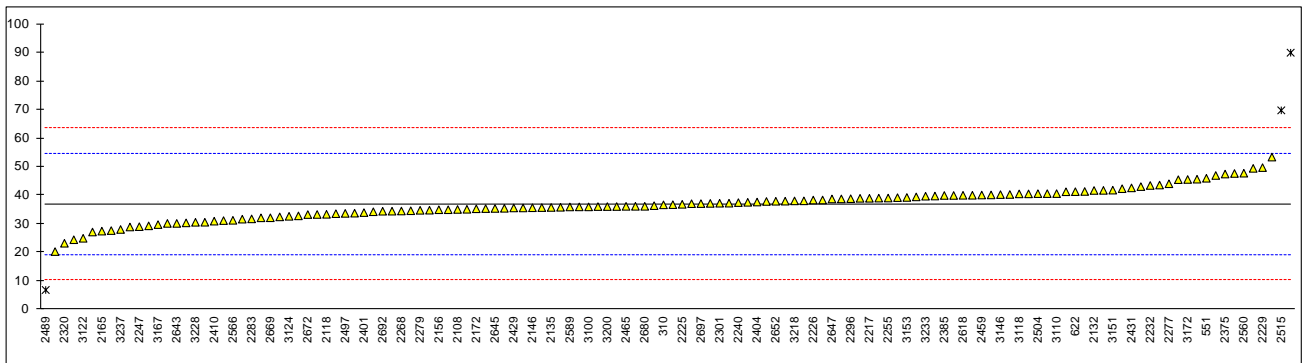


Determination of migration of Nickel as Ni on plaster sample #15053; results in mg/kg

lab	method	value	mark	z(targ)	remarks
310	EN71-3	36.72		-0.02	
330	EN71-3:2013	37.121		0.03	
551	EN71-3:2013	46.02		1.03	
622	EN71-3:2013	41.33		0.50	
2108	EN71-3:2013	35.10		-0.20	
2115	EN71-3:2014	39.07		0.25	
2118	EN71-3:2013	33.4		-0.39	
2129	EN71-3:2013	40.558		0.41	
2131	EN71-3:2013	32.854		-0.46	
2132	EN71-3:2013	41.75		0.55	
2135	EN71-3:2013	35.8		-0.12	
2137	ISO8124-3:2013	34.65		-0.25	
2139	EN71-3:2013	20.347		-1.87	
2146	EN71-3:2013	35.7		-0.13	
2152	EN71-3:2013	38.12		0.14	
2156	EN71-3:2013	35.0		-0.21	
2165	EN71-3:2013	27.51		-1.06	
2172	EN71-3:2013 + A1:2014	35.34		-0.17	
2184	EN71-3:2013 + A1:2014	30.21		-0.75	
2190	EN71-3:2013	34.5		-0.27	
2201	EN71-3:2013	35.4		-0.17	
2217	EN71-3:2013	39.01		0.24	
2225	EN71-3:2013	36.9		0.00	
2226	EN71-3:2013	38.4		0.17	
2229	EN71-3:2013 + A1:2014	49.76		1.45	
2232	EN71-3:2013	43.5		0.75	
2234	EN71-3:2013	35.75		-0.13	
2236		----		----	
2240	EN71-3:2013	37.5		0.07	
2241	EN71-3:2013 + A1:2014	30.622		-0.71	
2245	EN71-3:2013 + A1:2014	33.8		-0.35	
2246	EN71-3:2013	40.19		0.37	
2247	EN71-3:2013	29.07		-0.88	
2253	EN71-3:2013	32.17		-0.53	
2254	EN71-3:2013	36.774		-0.01	
2255	EN71-3:2013	39.1		0.25	
2256	EN71-3:2013	39.0		0.24	
2264		----		----	
2268	EN71-3:2013 + A1:2014	34.558		-0.26	
2269	EN71-3:2013	36.4239		-0.05	
2271	EN71-3:2013	36.20		-0.08	
2277	EN71-3:2013	44.1		0.81	
2279	EN71-3:2013	34.8		-0.24	
2280	EN71-3:2013 + A1:2014	35.5		-0.16	
2282	EN71-3:2013	36.1		-0.09	
2283	EN71-3:2013 + A1:2014	31.8		-0.57	
2284	EN71-3:2013	38.42		0.17	
2289	EN71-3:2013	38.8		0.22	
2290	EN71-3:2013	41.3		0.50	
2291	EN71-3:2013	40.64		0.42	
2293		----		----	
2295	EN71-3:2013	47.7		1.22	
2296	EN71-3:2013	38.872		0.22	
2297	EN71-3:2013	35.63		-0.14	
2299		----		----	
2301	EN71-3:2013	37.28		0.04	
2320	EN71-3:2013	23.261		-1.54	
2366	EN71-3:2013 + A1:2014	43.1		0.70	
2370	EN71-3:2013	39.5		0.30	
2372	EN71-3:2013	33.62		-0.37	
2375	EN71-3 + A1:2014	47.5		1.20	
2385	EN71-3	40		0.35	
2390	EN71-3:2013	53.44		1.87	
2401	EN71-3:2013	34		-0.33	
2403	EN71-3:2013	39.237		0.27	
2404	EN71-3:2013 + A1:2014	37.7		0.09	
2409	EN71-3:1995 + A1:2000	40.34		0.39	
2410	EN71-3:2013	31		-0.66	
2412	EN71-3:2013	32.5		-0.50	
2413	EN71-3:2013	28.96		-0.90	
2429	EN71-3:2013	35.63		-0.14	
2431	EN71-3:2013	42.6570		0.65	
2432		----		----	
2433	EN71-3:2013	49.49		1.42	
2442		----		----	
2459	EN71-3:2013	40.155		0.37	

2464		----	W	----	first reported: 34.4
2465	EN71-3:2013	36.19		-0.08	
2468	EN71-3:2013	40.07		0.36	
2471	EN71-3:2013	35.16		-0.19	
2475		----		----	
2489	EN71-3:2013	6.90	R(0.01)	-3.39	
2497	EN71-3:2013	33.724	C	-0.36	first reported: 1.664
2504	EN71-3:2013	40.634		0.42	
2515	EN71-3:2013	69.811	R(0.01)	3.72	
2532	EN71-3:2013	27.7	C	-1.04	first reported: 8.5
2536	EN71-3:2013	40.002		0.35	
2553	EN71-3:2013	27.2		-1.09	
2560	EN71-3:2013	47.8	C	1.23	first reported: 9.96
2566	EN71-3:2013	31.3		-0.63	
2567	EN71-3:2013	39.8		0.33	
2589	EN71-3:2013	35.98		-0.10	
2590	EN71-3:2013	24.50	C	-1.40	first reported: 122.52
2601	EN71-3:2013	31.7		-0.59	
2605	EN71-3:2013	37.3		0.05	
2607		----		----	
2618	EN71-3:2013	40.06		0.36	
2622	EN71-3:2013	29.36		-0.85	
2642		----		----	
2643	EN71-3:2013	30.21		-0.75	
2645	EN71-3:2013 + A1:2014	35.45		-0.16	
2647	EN71-3:2013	38.78		0.21	
2652	EN71-3:2013	37.971		0.12	
2654	EN71-3:2014	45.53		0.98	
2659		----		----	
2660	EN71-3:2013	37.9		0.11	
2667	EN71-3:2013	33.34		-0.40	
2669	EN71-3:2013	32.19		-0.53	
2672	EN71-3:2014	33.31		-0.40	
2680	EN71-3:2013	36.20		-0.08	
2684	EN71-3:2013	35.86		-0.12	
2690	EN71-3:2013	34.3		-0.29	
2691	EN71-3:2013	34.84		-0.23	
2692	EN71-3:2013	34.48		-0.27	
2693	EN71-3:2013 + A1:2014	36		-0.10	
2694	EN71-3:2013	36.127		-0.09	
2696	EN71-3:2013	35.004		-0.21	
2697	EN71-3:2013	37.1487		0.03	
2699	EN71-3:2013	47		1.14	
3100	EN71-3:2013	36		-0.10	
3110	EN71-3:2013 + A1:2014	40.65		0.43	
3116	EN71-3:2013 + A1:2014	41.78		0.55	
3118	EN71-3:2013	40.55		0.41	
3122	EN71-3:2013	25		-1.34	
3124	EN71-3:2013	32.7		-0.47	
3146	EN71-3:2014	40.3		0.39	
3151	EN71-3:2013	41.862		0.56	
3153	EN71-3:2013 + A1:2014	39.3		0.27	
3167	EN71-3:2013	29.79		-0.80	
3172	EN71-3:2013	45.6		0.98	
3176	EN71-3:2013	37.221		0.04	
3182	EN71-3:2013 + A1:2014	42.3695		0.62	
3185	EN71-3:2013 + A1:2014	37.6		0.08	
3190	EN71-3:2013	30.4		-0.73	
3197	EN71-3:2013	41.4		0.51	
3199		----		----	
3200	EN71-3:2013	36.11		-0.09	
3214	EN71-3:2013	31.2		-0.64	
3218	EN71-3:2013	38.1		0.14	
3220	EN71-3	90.0	R(0.01)	6.00	
3228	EN71-3:2013	30.6		-0.71	
3233	EN71-3:2013 + A1:2014	39.74		0.32	
3237	EN71-3:2013	28.09		-0.99	
3238	EN71-3:2013	45.7		1.00	
3246	EN71-3:2013	43.65		0.76	
3248	EN71-3:2013	38		0.13	
8005		----		----	
	normality	OK			
	n	131			
	outliers	3			
	mean (n)	36.89			
	st.dev. (n)	5.480			
	R(calc.)	15.34			
	R(RR prEN71-3:13)	24.79			

Determination of migration of Nickel as Ni on plaster sample #15053; graphical results

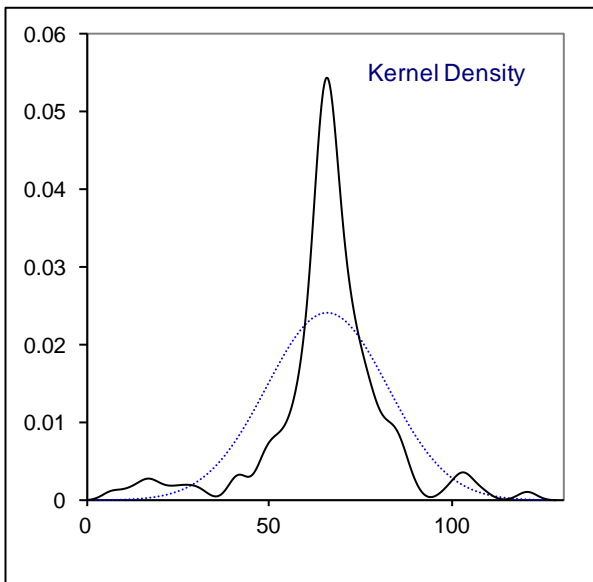
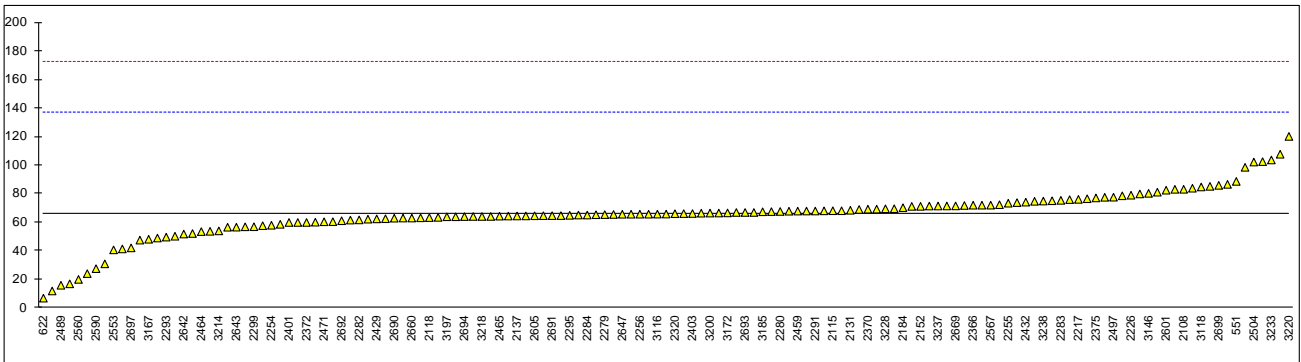


Determination of migration of Selenium as Se on plaster sample #15053; results in mg/kg

lab	method	value	mark	z(targ)	remarks
310	EN71-3	68.01		0.06	
330	EN71-3:2013	56.966		-0.25	
551	EN71-3:2013	88.77		0.65	
622	EN71-3:2013	6.97		-1.66	
2108	EN71-3:2013	83.25		0.49	
2115	EN71-3:2014	68.22		0.07	
2118	EN71-3:2013	63.405		-0.07	
2129	EN71-3:2013	67.003		0.04	
2131	EN71-3:2013	68.541		0.08	
2132	EN71-3:2013	66.61		0.03	
2135	EN71-3:2013	60.2		-0.16	
2137	ISO8124-3:2013	64.55		-0.03	
2139	EN71-3:2013	50.357		-0.43	
2146	EN71-3:2013	53.8		-0.34	
2152	EN71-3:2013	71.28		0.16	
2156	EN71-3:2013	63.1		-0.07	
2165	EN71-3:2013	71.57		0.17	
2172	EN71-3:2013 + A1:2014	62.63		-0.09	
2184	EN71-3:2013 + A1:2014	70.35		0.13	
2190	EN71-3:2013	64.8		-0.03	
2201	EN71-3:2013	65.2		-0.01	
2217	EN71-3:2013	76.18		0.29	
2225	EN71-3:2013	66.2		0.01	
2226	EN71-3:2013	79.1		0.38	
2229	EN71-3:2013 + A1:2014	98.64		0.93	
2232	EN71-3:2013	49.1		-0.47	
2234	EN71-3:2013	64.75		-0.03	
2236		-----		-----	
2240	EN71-3:2013	64.5		-0.03	
2241	EN71-3:2013 + A1:2014	65.424		-0.01	
2245	EN71-3:2013 + A1:2014	58.7		-0.20	
2246	EN71-3:2013	69.11		0.10	
2247	EN71-3:2013	n.d.		-----	
2253	EN71-3:2013	71.26		0.16	
2254	EN71-3:2013	58.052		-0.22	
2255	EN71-3:2013	73.5		0.22	
2256	EN71-3:2013	65.8		0.00	
2264		-----		-----	
2268	EN71-3:2013 + A1:2014	64.217		-0.04	
2269	EN71-3:2013	67.8800		0.06	
2271	EN71-3:2013	65.60		0.00	
2277	EN71-3:2013	85.3		0.55	
2279	EN71-3:2013	65.5		-0.01	
2280	EN71-3:2013 + A1:2014	67.7		0.06	
2282	EN71-3:2013	61.8		-0.11	
2283	EN71-3:2013 + A1:2014	75.5		0.28	
2284	EN71-3:2013	65.20		-0.01	
2289	EN71-3:2013	71.9		0.17	
2290	EN71-3:2013	73.9		0.23	
2291	EN71-3:2013	68.02		0.06	
2293	EN71-3:2013	49.73		-0.45	
2295	EN71-3:2013	65		-0.02	
2296	EN71-3:2013	57.742		-0.22	
2297	EN71-3:2013	63.57		-0.06	
2299	INH-324	57.0133		-0.25	
2301	EN71-3:2013	76.64		0.31	
2320	EN71-3:2013	66.15		0.01	
2366	EN71-3:2013 + A1:2014	72.1		0.18	
2370	EN71-3:2013	69.3		0.10	
2372	EN71-3:2013	60.01		-0.16	
2375	EN71-3 + A1:2014	77.2		0.32	
2385	EN71-3	80		0.40	
2390	EN71-3:2013	102.63		1.04	
2401	EN71-3:2013	60		-0.16	
2403	EN71-3:2013	66.267		0.02	
2404	EN71-3:2013 + A1:2014	64.2		-0.04	
2409	EN71-3:1995 + A1:2000	74.82		0.26	
2410	EN71-3:2013	67		0.04	
2412	EN71-3:2013	62.3		-0.10	
2413	EN71-3:2013	52.26		-0.38	
2429	EN71-3:2013	62.51		-0.09	
2431	EN71-3:2013	76.0201		0.29	
2432	in house	74.24		0.24	
2433	EN71-3:2013	41.46		-0.68	
2442	in house	78.69		0.37	

2459	EN71-3:2013	67.968		0.06
2464	EN71-3:2013	53.6		-0.34
2465	EN71-3:2013	64.42		-0.04
2468	EN71-3:2013	69.64		0.11
2471	EN71-3:2013	60.49		-0.15
2475	EN71-3 + A1	66.5		0.02
2489	EN71-3:2013	16.0		-1.40
2497	EN71-3:2013	77.71	C	0.34
2504	EN71-3:2013	102.346		1.03
2515	EN71-3:2013	75.219		0.27
2532	EN71-3:2013	17.0		-1.37
2536	EN71-3:2013	68.220		0.07
2553	EN71-3:2013	40.8		-0.70
2560	EN71-3:2013	20.1		-1.29
2566	EN71-3:2013	12		-1.51
2567	EN71-3:2013	72.13		0.18
2589	EN71-3:2013	68.14		0.07
2590	EN71-3:2013	27.63	C	-1.07
2601	EN71-3:2013	82.6		0.48
2605	EN71-3:2013	64.7		-0.03
2607		-----		-----
2618	EN71-3:2013	56.66		-0.26
2622	EN71-3:2013	47.63		-0.51
2642	ASTM F963	51.9		-0.39
2643	EN71-3:2013	56.71		-0.25
2645	EN71-3:2013 + A1:2014	71.51		0.16
2647	EN71-3:2013	65.76		0.00
2652	EN71-3:2013	60.559		-0.15
2654	EN71-3:2014	81.22		0.44
2659	ISO8124-3:2012	24.157		-1.17
2660	EN71-3:2013	63.1		-0.07
2667	EN71-3:2013	69.34		0.10
2669	EN71-3:2013	71.61		0.17
2672	EN71-3:2014	72.44		0.19
2680	EN71-3:2013	65.77		0.00
2684	EN71-3:2013	72.11		0.18
2690	EN71-3:2013	63.0		-0.08
2691	EN71-3:2013	64.78		-0.03
2692	EN71-3:2013	61.22		-0.13
2693	EN71-3:2013 + A1:2014	67		0.04
2694	EN71-3:2013	64.121		-0.04
2696	EN71-3:2013	61.666		-0.11
2697	EN71-3:2013	42.1950		-0.66
2699	EN71-3:2013	86		0.57
3100	EN71-3:2013	65.9		0.01
3110	EN71-3:2013 + A1:2014	67.61		0.05
3116	EN71-3:2013 + A1:2014	65.85		0.00
3118	EN71-3:2013	84.88		0.54
3122	EN71-3:2013	31		-0.98
3124	EN71-3:2013	60.0		-0.16
3146	EN71-3:2014	80.4		0.41
3151	EN71-3:2013	83.225		0.49
3153	EN71-3:2013 + A1:2014	64.6		-0.03
3167	EN71-3:2013	48.24		-0.49
3172	EN71-3:2013	66.7		0.03
3176	EN71-3:2013	77.630		0.34
3182	EN71-3:2013 + A1:2014	63.2715		-0.07
3185	EN71-3:2013 + A1:2014	67.5		0.05
3190	EN71-3:2013	86.7		0.59
3197	EN71-3:2013	64.0		-0.05
3199	EN71-3	107.80		1.19
3200	EN71-3:2013	66.57		0.02
3214	EN71-3:2013	54.1		-0.33
3218	EN71-3:2013	64.2		-0.04
3220	EN71-3	120.3		1.54
3228	EN71-3:2013	69.6		0.11
3233	EN71-3:2013 + A1:2014	103.8		1.07
3237	EN71-3:2013	71.53		0.16
3238	EN71-3:2013	75.0		0.26
3246	EN71-3:2013	65.8		0.00
3248	EN71-3:2013	64		-0.05
8005	ASTM F963	84		0.52
	normality	not OK		
	n	143		
	outliers	0		
	mean (n)	65.71		
	st.dev. (n)	16.498		
	R(calc.)	46.19		
	R(RR prEN71-3:13)	99.36		

Determination of migration of Selenium as Se on plaster sample #15053; graphical results

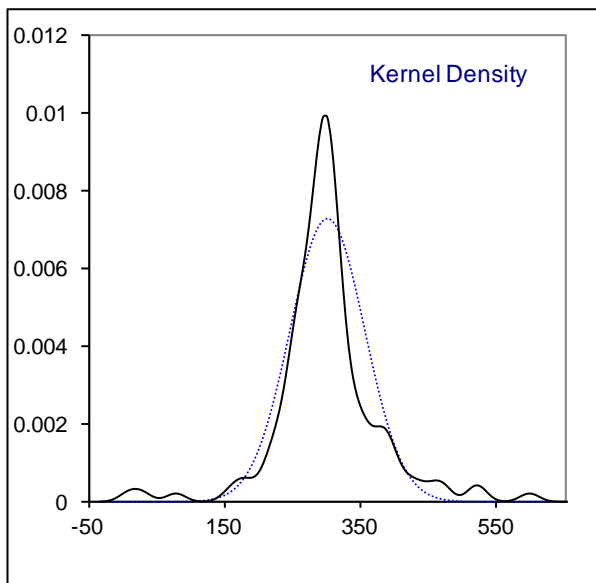
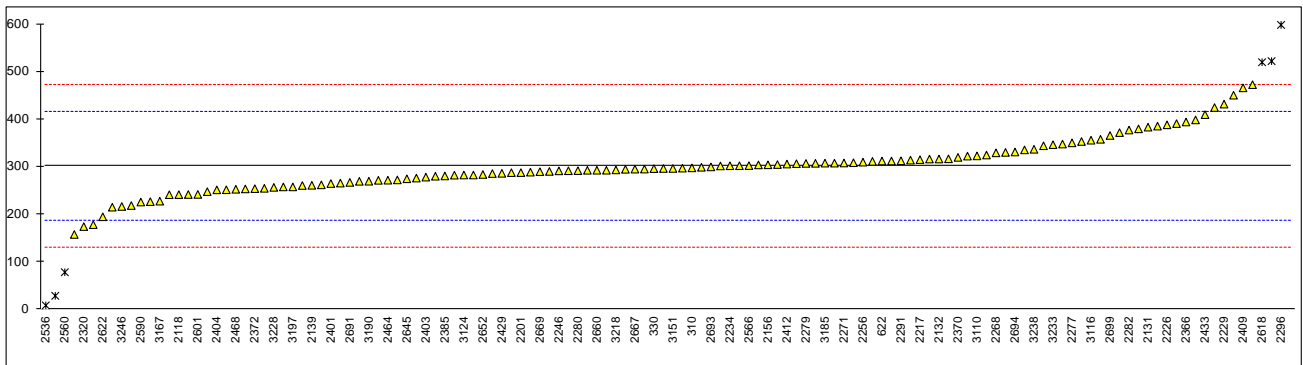


Determination of migration of Strontium as Sr on plaster sample #15053; results in mg/kg

lab	method	value	mark	z(targ)	remarks
310	EN71-3	298		-0.06	
330	EN71-3:2013	296.383		-0.09	
551		-----		-----	
622	EN71-3:2013	312.45		0.19	
2108	EN71-3:2013	295.0		-0.11	
2115	EN71-3:2014	287.93		-0.24	
2118	EN71-3:2013	241.73		-1.04	
2129	EN71-3:2013	308.808		0.13	
2131	EN71-3:2013	383.549		1.43	
2132	EN71-3:2013	316.56		0.26	
2135	EN71-3:2013	522.3	R(0.05)	3.86	
2137	ISO8124-3:2013	265.95		-0.62	
2139	EN71-3:2013	261.333		-0.70	
2146	EN71-3:2013	252		-0.86	
2152	EN71-3:2013	242.0		-1.04	
2156	EN71-3:2013	304.4		0.05	
2165	EN71-3:2013	283.01		-0.32	
2172	EN71-3:2013 + A1:2014	296.7		-0.08	
2184	EN71-3:2013 + A1:2014	260.9		-0.71	
2190	EN71-3:2013	262.3		-0.68	
2201	EN71-3:2013	288.0		-0.23	
2217	EN71-3:2013	315.2		0.24	
2225	EN71-3:2013	314.3		0.23	
2226	EN71-3:2013	388.4		1.52	
2229	EN71-3:2013 + A1:2014	431.94		2.28	
2232	EN71-3:2013	227		-1.30	
2234	EN71-3:2013	302.41		0.02	
2236		-----		-----	
2240	EN71-3:2013	322.7		0.37	
2241	EN71-3:2013 + A1:2014	247.980		-0.93	
2245	EN71-3:2013 + A1:2014	299.2		-0.04	
2246	EN71-3:2013	291.7		-0.17	
2247	EN71-3:2013	316.53		0.26	
2253	EN71-3:2013	282.61		-0.33	
2254	EN71-3:2013	271.812		-0.52	
2255	EN71-3:2013	n.d.		-----	
2256	EN71-3:2013	310		0.15	
2264		-----		-----	
2268	EN71-3:2013 + A1:2014	329.515		0.49	
2269	EN71-3:2013	372.0804		1.23	
2271	EN71-3:2013	308.22		0.12	
2277	EN71-3:2013	350.5		0.86	
2279	EN71-3:2013	307.3		0.10	
2280	EN71-3:2013 + A1:2014	292.1		-0.16	
2282	EN71-3:2013	377.5		1.33	
2283	EN71-3:2013 + A1:2014	353.4		0.91	
2284	EN71-3:2013	291.93		-0.17	
2289	EN71-3:2013	306.8		0.09	
2290	EN71-3:2013	272.7		-0.50	
2291	EN71-3:2013	312.9		0.20	
2293		-----		-----	
2295	EN71-3:2013	385.7		1.47	
2296	EN71-3:2013	598.391	C,R(0.01)	5.19	first reported: 1039.919
2297	EN71-3:2013	297.4		-0.07	
2299		-----		-----	
2301	EN71-3:2013	344.43		0.75	
2320	EN71-3:2013	174.58		-2.21	
2366	EN71-3:2013 + A1:2014	394.4		1.62	
2370	EN71-3:2013	320		0.32	
2372	EN71-3:2013	254.3		-0.82	
2375	EN71-3 + A1:2014	258	C	-0.76	first reported: 970.1
2385	EN71-3	281		-0.36	
2390	EN71-3:2013	450.71		2.61	
2401	EN71-3:2013	265		-0.64	
2403	EN71-3:2013	278.54		-0.40	
2404	EN71-3:2013 + A1:2014	251.8		-0.87	
2409	EN71-3:1995 + A1:2000	466.1		2.88	
2410	EN71-3:2013	317		0.27	
2412	EN71-3:2013	306		0.08	
2413	EN71-3:2013	178.61		-2.14	
2429	EN71-3:2013	286.51		-0.26	
2431	EN71-3:2013	295.4211		-0.10	
2432		-----		-----	
2433	EN71-3:2013	409.77		1.89	
2442		-----		-----	
2459	EN71-3:2013	29.113	R(0.01)	-4.75	

2464	EN71-3:2013	272.1		-0.51	
2465	EN71-3:2013	324.99		0.41	
2468	EN71-3:2013	253		-0.85	
2471	EN71-3:2013	302.03		0.01	
2475		-----		-----	
2489	EN71-3:2013	391.0		1.56	
2497	EN71-3:2013	307.91	C	0.11	first reported: 15.201
2504	EN71-3:2013	330.455		0.51	
2515	EN71-3:2013	276.526		-0.43	
2532	EN71-3:2013	241.6	C	-1.04	first reported: 120.8
2536	EN71-3:2013	9	C,R(0.01)	-5.11	first reported: 28.995
2553	EN71-3:2013	158		-2.50	
2560	EN71-3:2013	78.7	R(0.05)	-3.89	
2566	EN71-3:2013	302.7		0.02	
2567		-----		-----	
2589	EN71-3:2013	304.2		0.05	
2590	EN71-3:2013	226.21	C	-1.31	first reported:1131.07
2601	EN71-3:2013	242.2		-1.03	
2605	EN71-3:2013	218.8		-1.44	
2607		-----		-----	
2618	EN71-3:2013	519.98	R(0.05)	3.82	
2622	EN71-3:2013	195.2		-1.85	
2642		-----		-----	
2643	EN71-3:2013	253.75		-0.83	
2645	EN71-3:2013 + A1:2014	275.05		-0.46	
2647	EN71-3:2013	311.62		0.18	
2652	EN71-3:2013	284.05		-0.30	
2654	EN71-3:2014	307.50		0.11	
2659		-----		-----	
2660	EN71-3:2013	293		-0.15	
2667	EN71-3:2013	295.32		-0.11	
2669	EN71-3:2013	289.97		-0.20	
2672	EN71-3:2014	302.5		0.02	
2680	EN71-3:2013	290.5		-0.19	
2684	EN71-3:2013	280.4		-0.37	
2690	EN71-3:2013	286.0		-0.27	
2691	EN71-3:2013	267.42		-0.59	
2692	EN71-3:2013	215.36		-1.50	
2693	EN71-3:2013 + A1:2014	300		-0.02	
2694	EN71-3:2013	331.35		0.52	
2696	EN71-3:2013	304.959		0.06	
2697	EN71-3:2013	292.898		-0.15	
2699	EN71-3:2013	366		1.13	
3100	EN71-3:2013	348		0.81	
3110	EN71-3:2013 + A1:2014	323.18		0.38	
3116	EN71-3:2013 + A1:2014	356.1		0.96	
3118	EN71-3:2013	472.8		2.99	
3122	EN71-3:2013	255		-0.81	
3124	EN71-3:2013	283		-0.32	
3146	EN71-3:2014	293		-0.15	
3151	EN71-3:2013	296.77		-0.08	
3153	EN71-3:2013 + A1:2014	335.8		0.60	
3167	EN71-3:2013	228.0		-1.28	
3172	EN71-3:2013	424.8		2.15	
3176	EN71-3:2013	398.781		1.70	
3182	EN71-3:2013 + A1:2014	379.9775		1.37	
3185	EN71-3:2013 + A1:2014	307.9		0.11	
3190	EN71-3:2013	269.9		-0.55	
3197	EN71-3:2013	258.0		-0.76	
3199		-----		-----	
3200	EN71-3:2013	312.46		0.19	
3214	EN71-3:2013	289.0		-0.22	
3218	EN71-3:2013	293.7		-0.13	
3220	EN71-3	1476.0	R(0.01)	20.51	
3228	EN71-3:2013	257.0		-0.78	
3233	EN71-3:2013 + A1:2014	346.7		0.79	
3237	EN71-3:2013	269.72		-0.55	
3238	EN71-3:2013	337.0		0.62	
3246	EN71-3:2013	216.85		-1.48	
3248	EN71-3:2013	358		0.99	
8005		-----		-----	
	normality	suspect			
	n	125			
	outliers	7			
	mean (n)	301.40			
	st.dev. (n)	54.945			
	R(calc.)	153.87			
	R(RR prEN71-3:13)	160.34			

Determination of migration of Strontium as Sr on plaster sample #15053; graphical results



APPENDIX 2

Summary of other positive test results also reported for sample #15053

lab	method
2139	Zn: 11.033 mg/kg
2409	Hg: 9.482 mg/kg
2413	Sb: 29.13 mg/kg
2464	Hg: 50.92 mg/kg
2497	Hg: 164.57 mg/kg
2618	Ba: 186.89 mg/kg
2622	Ba: 89.2 mg/kg, Zn: 14.9 mg/kg
2659	Hg: 62.37 mg/kg
3220	Cu: 296.0 mg/kg, Sr: 11.0 mg/kg, Zn: 419.0 mg/kg

Summary of other positive test results also reported for sample #15053

lab	method
2135	B: 17.8 mg/kg
2226	B: 11.8 mg/kg
2296	Ba: 10.654 mg/kg, B: 11.702 mg/kg
2409	B: 89.75 mg/kg
2416	Sb: 27.71 mg/kg
2468	Cu: 14.80 mg/kg
2515	As: 12.060 mg/kg
2618	Zn: 128.03 mg/kg
2654	Cu: 19.105 mg/kg
3118	B: 12.83 mg/kg
3220	Ba: 30.5 mg/kg, B: 27.3 mg/kg, Zn: 456.7 mg/kg

APPENDIX 3

Number of participants per country

5 labs in BANGLADESH
1 lab in BELGIUM
1 lab in BRAZIL
1 lab in CAMBODIA, Kingdom of
1 lab in CANADA
1 lab in DENMARK
1 lab in FINLAND
5 labs in FRANCE
8 labs in GERMANY
1 lab in GUATEMALA
11 labs in HONG KONG
1 lab in HUNGARY
5 labs in INDIA
5 labs in INDONESIA
5 labs in ITALY
4 labs in KOREA
3 labs in MALAYSIA
2 labs in MEXICO
1 lab in MOROCCO
52 labs in P.R. of CHINA
2 labs in PAKISTAN
2 labs in PERU
1 lab in PHILIPPINES
1 lab in SINGAPORE
1 lab in SPAIN
2 labs in SRI LANKA
1 lab in SWITZERLAND
3 labs in TAIWAN R.O.C.
4 labs in THAILAND
1 lab in THE NETHERLANDS
5 labs in TURKEY
4 labs in U.S.A.
2 labs in UNITED KINGDOM
3 labs in VIETNAM

APPENDIX 4

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

Literature:

- 1 iis Interlaboratory Studies, Protocol for the Organisation, Statistics & Evaluation, April 2014
- 2 Council Directive 88/378/EEC
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- 4 EN71-3:1994 + A1:2000, Safety of Toys - Migration of certain elements
- 5 Horwitz. Journal of AOAC International Vol. 79 No.3. 1996
- 6 P.L. Davies. Fr Z. Anal. Chem. 351. 513. (1988)
- 7 W.J. Conover. Practical; Nonparametric Statistics. J. Wiley&Sons. NY. p.302. (1971)
- 8 ISO 5725 (1986)
- 9 ISO 5725 parts 1-6. (1994)
- 10 ISC7/GF/csteep/toysinorg/220604 D(04) Assessment of bioavailability of certain elements in toys
- 11 ISO13528:2005 Statistical methods for use in proficiency testing by interlaboratory comparisons
- 12 M. Thompson and R. Wood. J. AOAC Int. 76. 926. (1993)
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- 14 The Royal Society of Chemistry 2002, Analyst 2002, 127 page 1359-1364, P.J. Lowthian and M. Thompson (see <http://www.rsc.org/suppdata/an/b2/b205600n/>).
- 15 EN71-3:2013, Safety of Toys - Migration of certain elements
- 16 CEN/TC 52/WG 5 N 905, Statistical evaluation of results from Round Robin on EN71-3:2013, Migration of compounds in dried paint, finger paint, plaster and PVC, Quo Data, 15 Oct 2012.
- 17 Bernard Rosner, Percentage Points for a Generalized ESD Many-Outlier Procedure, *Technometrics*, 25(2), pp. 165-172, (1983).