

## Erratum to: Rapid quantification of alpha emitters in low- and intermediate-level dry radioactive waste

Tae-Hong Park<sup>1</sup> · Eul-Hye Jeon<sup>1</sup> · Yong Sul Choi<sup>1</sup> · Jong-Ho Park<sup>1</sup> ·  
Hong Joo Ahn<sup>1</sup> · Yong Jun Park<sup>1</sup>

Published online: 5 January 2016  
© Akadémiai Kiadó, Budapest, Hungary 2015

### Erratum to: J Radioanal Nucl Chem DOI 10.1007/s10967-015-4177-3

In the original publication, the units of the activities in Tables 2 and 3 are incorrect and they need to be corrected to Bq/kg. In addition, ‘Activity of <sup>241</sup>Am’ in the right column in Table 3 needs to be corrected to ‘Activity’. Therefore, corrected Tables 2 and 3 are given below:

**Table 2** Activity measurement of Am and Cm isotopes in the radioactive dry waste sample using alpha spectrometry

| Sample # | Activity (Bq/kg) <sup>a</sup> |                   |                   | <sup>243</sup> Am<br>recovery (%) |
|----------|-------------------------------|-------------------|-------------------|-----------------------------------|
|          | <sup>241</sup> Am             | <sup>242</sup> Cm | <sup>244</sup> Cm |                                   |
| 1        | 198 ± 6                       | 0.98 ± 0.27       | 55.4 ± 2.5        | 65.4                              |
| 2        | 203 ± 7                       | 1.29 ± 0.32       | 55.6 ± 2.6        | 76.8                              |
| 3        | 205 ± 7                       | 0.86 ± 0.29       | 61.9 ± 3.0        | 58.2                              |
| 4        | 208 ± 7                       | 1.25 ± 0.32       | 58.4 ± 2.7        | 66.8                              |
| 5        | 194 ± 6                       | 1.05 ± 0.28       | 57.4 ± 2.6        | 73.9                              |
| Mean (σ) | 202                           | 1.09              | 57.8              | 68.2 (6.6)                        |

<sup>a</sup> Activity ± combined uncertainty ( $k = 1$ )

The online version of the original article can be found under  
doi:10.1007/s10967-015-4177-3.

✉ Tae-Hong Park  
parktae@kaeri.re.kr

<sup>1</sup> Nuclear Chemistry Research Division, Korea Atomic Energy  
Research Institute, 989-111 Daedeok-daero, Yuseong-gu,  
Daejeon 305-353, Korea

**Table 3** Activity measurement of Pu isotopes in the radioactive dry waste sample using alpha spectrometry and TIMS

| Sample #          | Alpha spectrometry            |                       |                                | TIMS                          |                   |                   |
|-------------------|-------------------------------|-----------------------|--------------------------------|-------------------------------|-------------------|-------------------|
|                   | Activity (Bq/kg) <sup>a</sup> |                       | <sup>242</sup> Pu recovery (%) | Activity (Bq/kg) <sup>a</sup> |                   |                   |
|                   | <sup>238</sup> Pu             | <sup>239,240</sup> Pu |                                | <sup>239</sup> Pu             | <sup>240</sup> Pu | <sup>241</sup> Pu |
| 1                 | 58.6 ± 2.7                    | 181 ± 6               | 71.3                           | 164 ± 1                       | 31.8 ± 0.3        | 2360 ± 36         |
| 2                 | 65.6 ± 3.4                    | 204 ± 8               | 85.7                           | 162 ± 1                       | 33.1 ± 0.3        | 2450 ± 30         |
| 3                 | 67.9 ± 2.8                    | 180 ± 6               | 76.0                           |                               |                   |                   |
| 4                 | 67.6 ± 3.4                    | 190 ± 8               | 52.6                           |                               |                   |                   |
| 5                 | 71.4 ± 3.5                    | 197 ± 8               | 50.2                           |                               |                   |                   |
| Mean ( $\sigma$ ) | 66.2                          | 190                   | 67.2 (13.7)                    | 163                           | 32.5              | 2405              |

<sup>a</sup> Activity ± combined uncertainty ( $k = 1$ )