

## Summary of Marine Soil Monitoring Result : Fukushima Daiichi Nuclear Power Station (Sep 2014)

|  | Place No. | Place of Sampling                                   | Date of Sampling   | Dry Soil Rate (%)   |                         |                           |
|--|-----------|---|--------------------|---------------------|-------------------------|---------------------------|
|  |           |   |                    |                     | Cs-134 [Approx. 2years] | Cs-137 [Approx. 30 years] |
| Coast                                      | T-1       | North of Discharge Channel of 5-6U of 1F            | 2014/9/8 5:30 AM   | 100.0 <sup>*1</sup> | 140                     | 400                       |
|  | T-2-1     | Around South Discharge Channel of 1F <sup>**1</sup> | 2014/9/9 9:50 AM   | 100.0 <sup>*1</sup> | 110                     | 320                       |
|  | T-3       | Around North Discharge Channel of 2F                | 2014/9/2 4:10 PM   | 76.6                | 26                      | 76                        |
|  | T-4-1     | Around the North Side of Asamigawa <sup>**2</sup>   | 2014/9/1 9:05 AM   | 77.3                | 17                      | 60                        |
| Within 20km Range of Fukushima Daiichi NPS | T-14      | 3km Offshore of Odaka Ward                          | 2014/9/1 9:05 AM   | 87.8                | 8.3                     | 25                        |
|  | T-11      | 3km Offshore of Iwasawa Shore                       | 2014/9/2 11:16 AM  | 73.9                | 16                      | 53                        |
|  | T-D1      | 3km Offshore of Ukedo River                         | 2014/9/1 9:43 AM   | 76.9                | 12                      | 29                        |
|  | T-D5      | 3km Offshore of 1F                                  | 2014/9/1 10:24 AM  | 76.9                | 38                      | 120                       |
|  | T-D9      | 3km Offshore of 2F                                  | 2014/9/2 10:23 AM  | 68.1                | 66                      | 190                       |
|  | T-5       | 15km Offshore of 1F                                 | 2014/9/2 9:20 AM   | 71.9                | 28                      | 79                        |
|  | T-①       | 1km Offshore of Murakami, Odaka Ward                | 2014/9/3 9:21 AM   | 85.0                | ND                      | 3.3                       |
|  | T-②       | 2km Offshore of Murakami, Odaka Ward                | 2014/9/3 9:32 AM   | 84.9                | 2.6                     | 7.9                       |
|  | T-③       | 1km Offshore of Ukedo, Namie Town                   | 2014/9/3 8:49 AM   | 80.7                | 5.0                     | 12                        |
|  | T-④       | 2km Offshore of Ukedo, Namie Town                   | 2014/9/3 8:36 AM   | 74.2                | 38                      | 100                       |
|  | T-⑤       | 3km Offshore of Ukedo, Namie Town                   | 2014/9/3 8:23 AM   | 80.3                | 7.5                     | 19                        |
|  | T-⑥       | 1km Offshore of Kumagawa, Okuma Town                | 2014/9/1 9:02 AM   | 71.6                | 180                     | 530                       |
|  | T-⑦       | 2km Offshore of Kumagawa, Okuma Town                | 2014/9/1 8:51 AM   | 72.5                | 55                      | 170                       |
|  | T-⑧       | 3km Offshore of Kumagawa, Okuma Town                | 2014/9/1 8:41 AM   | 73.2                | 19                      | 57                        |
|  | T-⑨       | 5km Offshore of Kumagawa, Okuma Town                | 2014/9/1 8:11 AM   | 42.1                | 570                     | 1,700                     |
|  | T-⑩       | 10km Offshore of Kumagawa, Okuma Town               | 2014/9/2 9:06 AM   | 74.0                | 27                      | 81                        |
|  | T-⑪       | 15km Offshore of Kumagawa, Okuma Town               | 2014/9/2 9:19 AM   | 71.2                | 32                      | 97                        |
|  | T-⑫       | 20km Offshore of Kumagawa, Okuma Town               | 2014/9/2 10:02 AM  | 68.1                | 9.8                     | 32                        |
|  | T-⑬       | 1km Offshore of Yamadahama, Naraha Town             | 2014/9/2 7:46 AM   | 77.9                | 23                      | 64                        |
|  | T-S1      | Around 1km Offshore of Ota River                    | 2014/9/26 6:14 AM  | 75.2                | 3.2                     | 12                        |
|  | T-S2      | Around 3km Offshore of Odaka Ward                   | 2014/9/26 5:48 AM  | 64.9                | 37                      | 100                       |
|  | T-S3      | Around 3km Offshore of Ukedo River                  | 2014/9/24 6:14 AM  | 78.0                | 5.5                     | 8.5                       |
|  | T-S4      | Around 3km Offshore of 1F                           | 2014/9/24 5:46 AM  | 75.5                | 130                     | 400                       |
|  | T-S5      | Around 2km Offshore of Kido River                   | 2014/9/4 7:28 AM   | 82.2                | 4.0                     | 13                        |
|  | T-S7      | Around 2km Offshore of 2F <sup>**3</sup>            | 2014/9/4 6:47 AM   | 77.8                | 36                      | 110                       |
|  | T-S8      | Around 4km Offshore of Kumagawa <sup>**4</sup>      | 2014/9/21 6:40 AM  | 81.5                | 3.1                     | 8.2                       |
|  | T-B1      | Around 15km Offshore of Odaka Ward <sup>*1</sup>    | 2014/9/18 6:47 AM  | 84.5                | 2.6                     | 5.9                       |
|  | T-B2      | Around 18km Offshore of Ukedo River <sup>*1</sup>   | 2014/9/18 6:11 AM  | 83.2                | 7.6                     | 23                        |
|  | T-B3      | Around 10km Offshore of 1F                          | 2014/9/6 5:55 AM   | 83.2                | 2.0                     | 5.6                       |
|  | T-B4      | Around 10km Offshore of 2F                          | 2014/9/6 6:41 AM   | 76.6                | 21                      | 60                        |
| Within 30km Range                          | T-13-1    | 1km Offshore of Nida River                          | 2014/9/17 6:00 AM  | 80.3                | ND                      | ND                        |
|  | T-7       | 15km Offshore of Iwasawa Shore                      | 2014/9/12 10:50 AM | 63.8                | 22                      | 66                        |
| Out of 30km Range                          | T-18      | 3km Offshore of Onahama Port                        | 2014/9/12 1:21 PM  | 69.6                | 29                      | 76                        |
|  | T-12      | 3km offshore of North of Iwaki City                 | 2014/9/20 6:40 AM  | 74.8                | 9.4                     | 24                        |
|  | T-17-1    | 1km Offshore of Natsui River                        | 2014/9/20 7:10 AM  | 71.7                | 18                      | 57                        |
|  | T-20      | 3km Offshore of Toyoma                              | 2014/9/20 7:50 AM  | 74.0                | 19                      | 61                        |
|  | T-22      | 3km Offshore of Soma                                | 2014/9/17 5:00 AM  | 63.6                | 140                     | 460                       |
|  | T-MA      | 5km Offshore of Kashima                             | 2014/9/17 5:30 AM  | 85.1                | ND                      | 4.0                       |
|  | T-M10     | 5km Offshore of Numanouchi                          | 2014/9/12 12:19 PM | 62.7                | 22                      | 69                        |

\* Data of other nuclides is under evaluation.

\* "ND" indicates that the measurement result is below the detection limit.  
(Cs-134: Approx. 2.1Bq/kg·Dry Soil, Cs-137: Approx. 1.19Bq/kg·Dry Soil)

As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected.

\* 1F: Fukushima Daiichi Nuclear Power Station, 2F: Fukushima Daini Nuclear Power Station

\* The half-life of each nuclide is provided in parentheses.

\*\*1 Place of Sampling was changed from "T-2" to "T-2-1" from November, 2012.

\*\*2 Place of Sampling was changed from "T-4" to "T-4-2" from October, 2012.

\*\*3 "T-S7" is added from May 2012.

\*\*4 "T-S8" is added from July 2012.

\*1 The samples obtained at "T-1" and "T-2-1" have been measured after drying process since April 2014.

## Nuclides Analysis Result of Marine Soil

(Data summarized on October 22)

| Place of Sampling  | North of Unit 5-6 Discharge Channel    | Around the South Discharge Channel at Fukushima Daiichi NPS |
|--|--|---|
| Date of Sampling   | Sep 8, 2014                            | Sep 8, 2014   |
| Detected Nuclides (Half-life)  | Radioactivity Density (Bq/kg·Dry Soil) |   |
| Cs-134 (Approx. 2 years)   | 140                                    | 110   |
| Cs-137 (Approx. 30 years)  | 400                                    | 320   |
| Sr-90 (Approx. 29 years)   | ND                                     | ND  |
| Range of Past Measurement Values in the Sea Area Near 1F and 2F (2001-2008): 0.17 Bq/kg, Dry Soil<br>Source: "2009 Report on the Result of Radioactivity Measurement around Nuclear Power Plant (Fukushima Nuclear Power Station Coordinating Committee for Safety Technology) |  |   |

\* Radioactivity Density "—" means "not applicable".

\* Nuclide analysis results of Cs-134 and Cs-137 were announced October 22, 2014.

\* When the measurement value is below the detection limit, "ND" is marked. The detection limits are as follows.  
 Sr-90: Approx: 0.7Bq/kg Dry Soil.

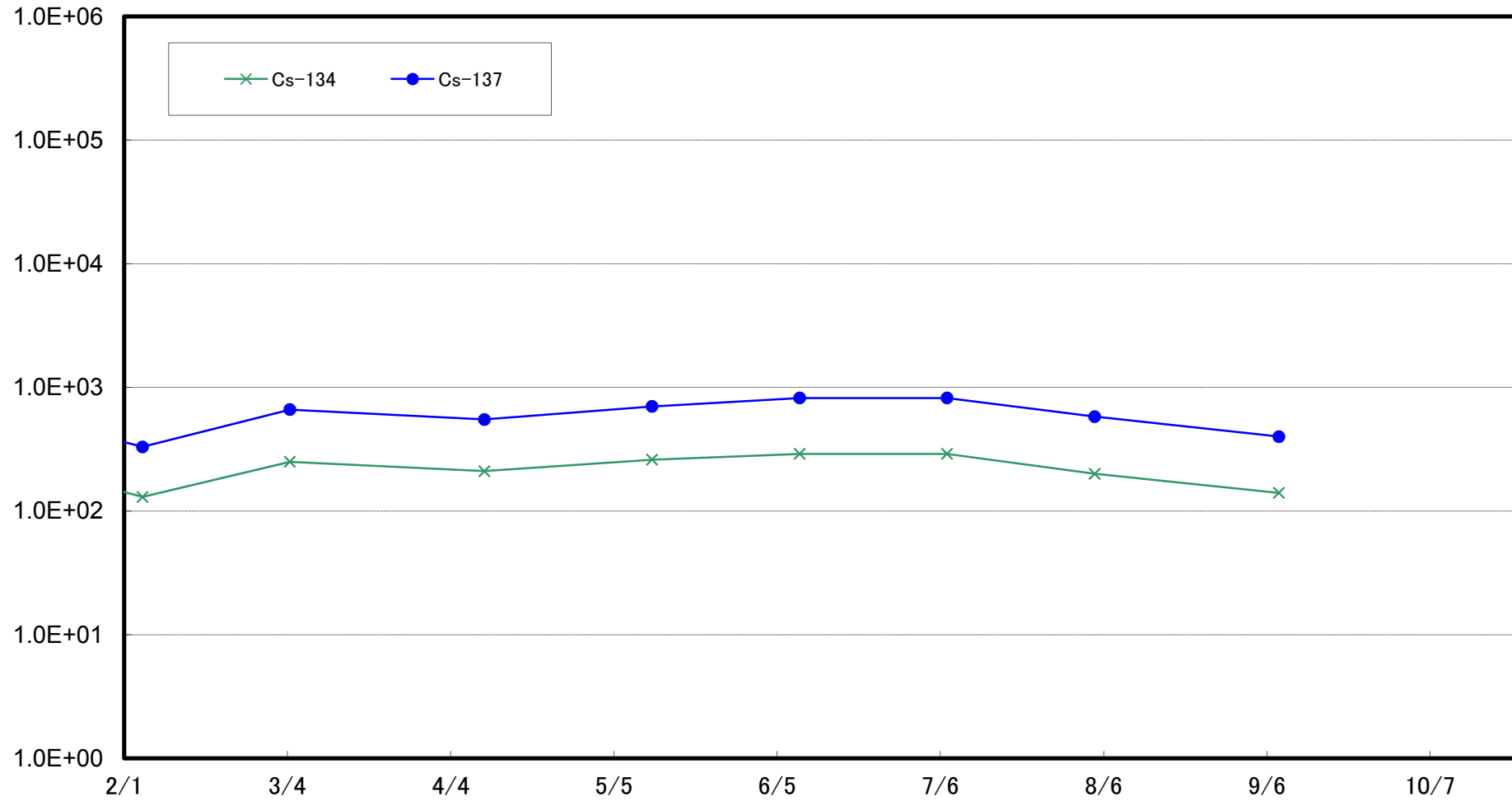
As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected.

\* Nuclides analysis of Sr-89 and Sr-90 were done by KAKEN Inc..

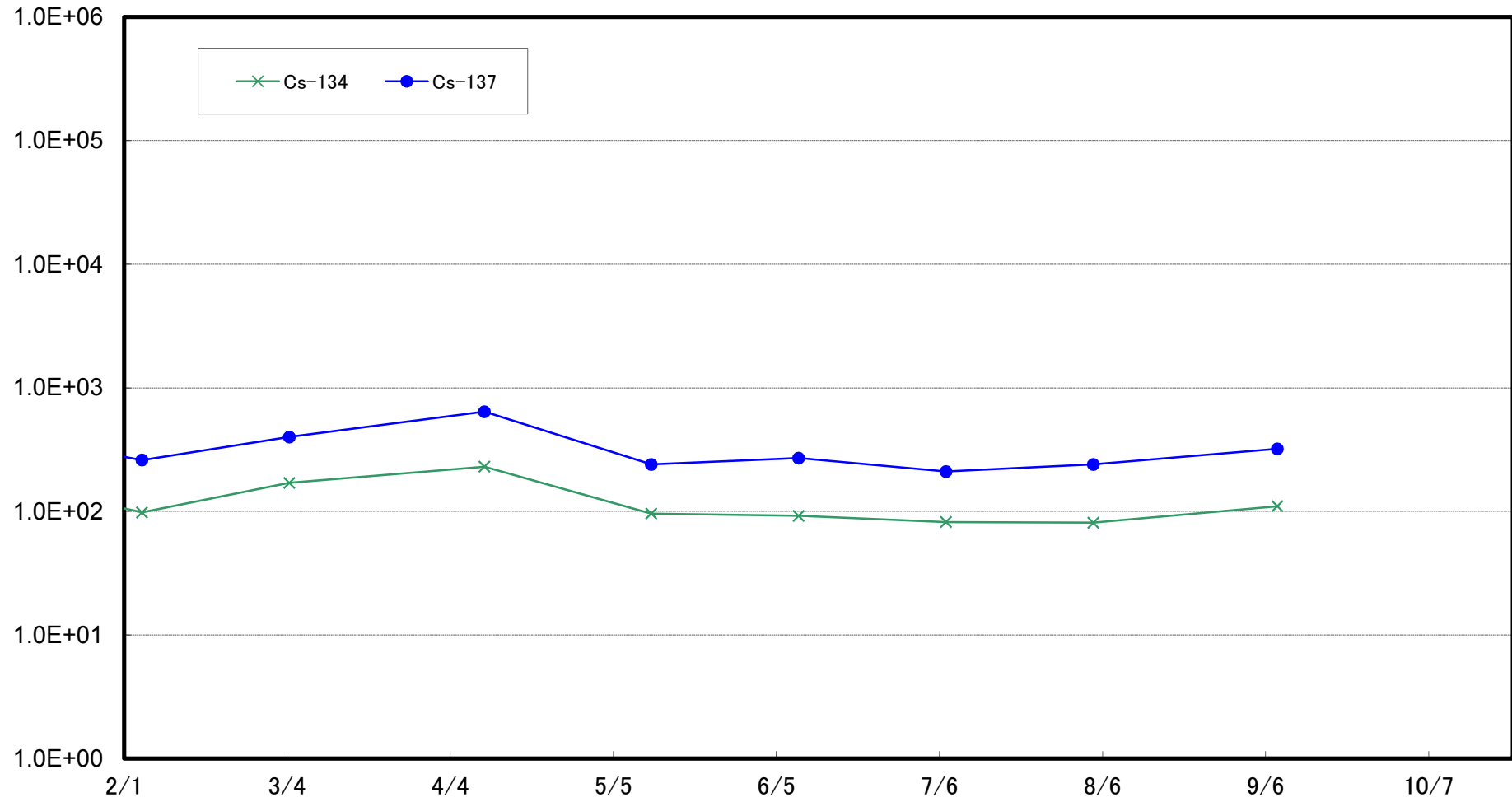
(Evaluation)

Sr-90 was not detected in the sample collected this time.

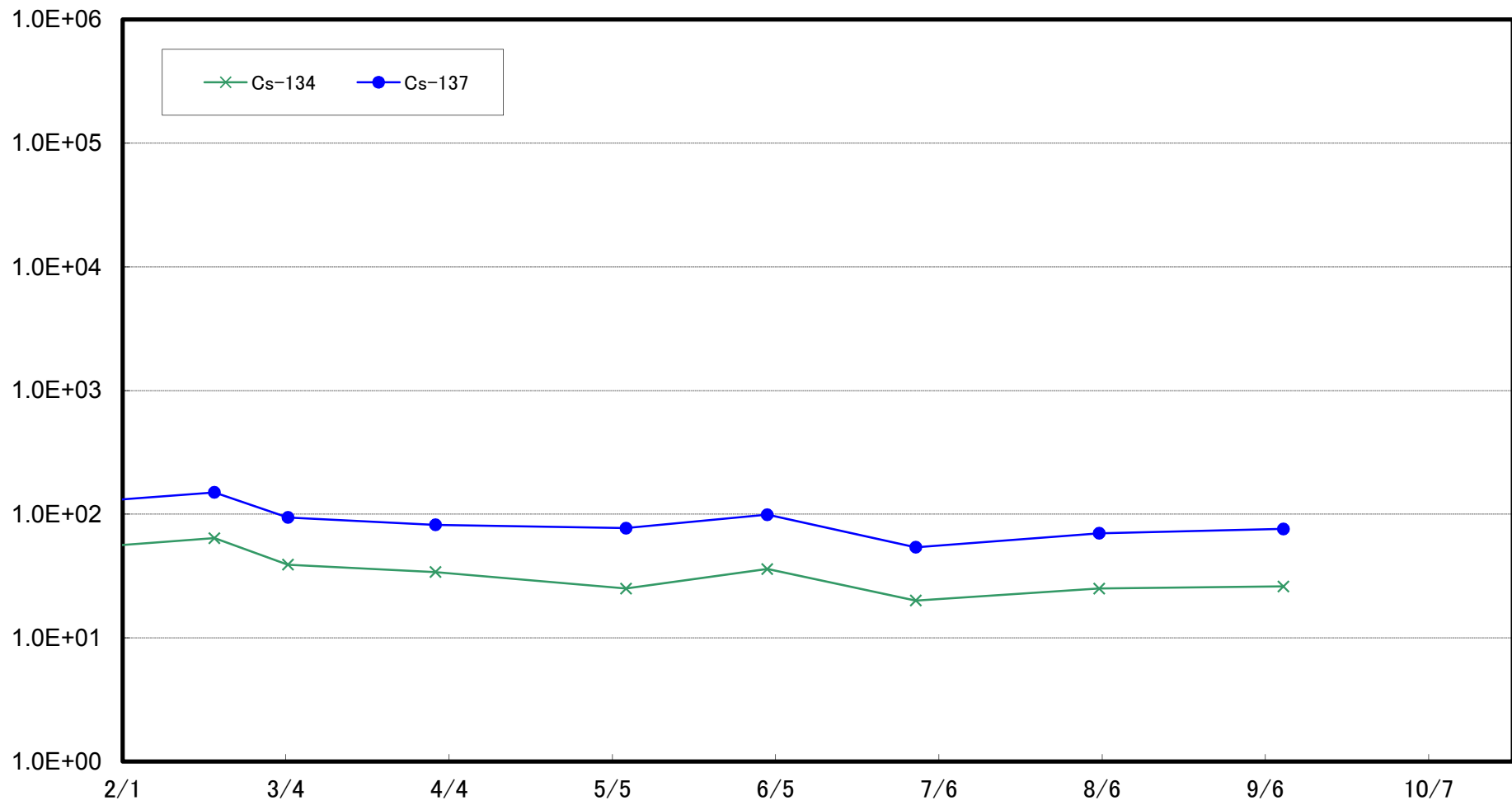
Radioactivity Density of the Marine Soil at North Discharge Channel of Fukushima Daiichi NPS  
(Around 5,6U Discharge Channel) (T-1) (Bq/kg, dry soil)



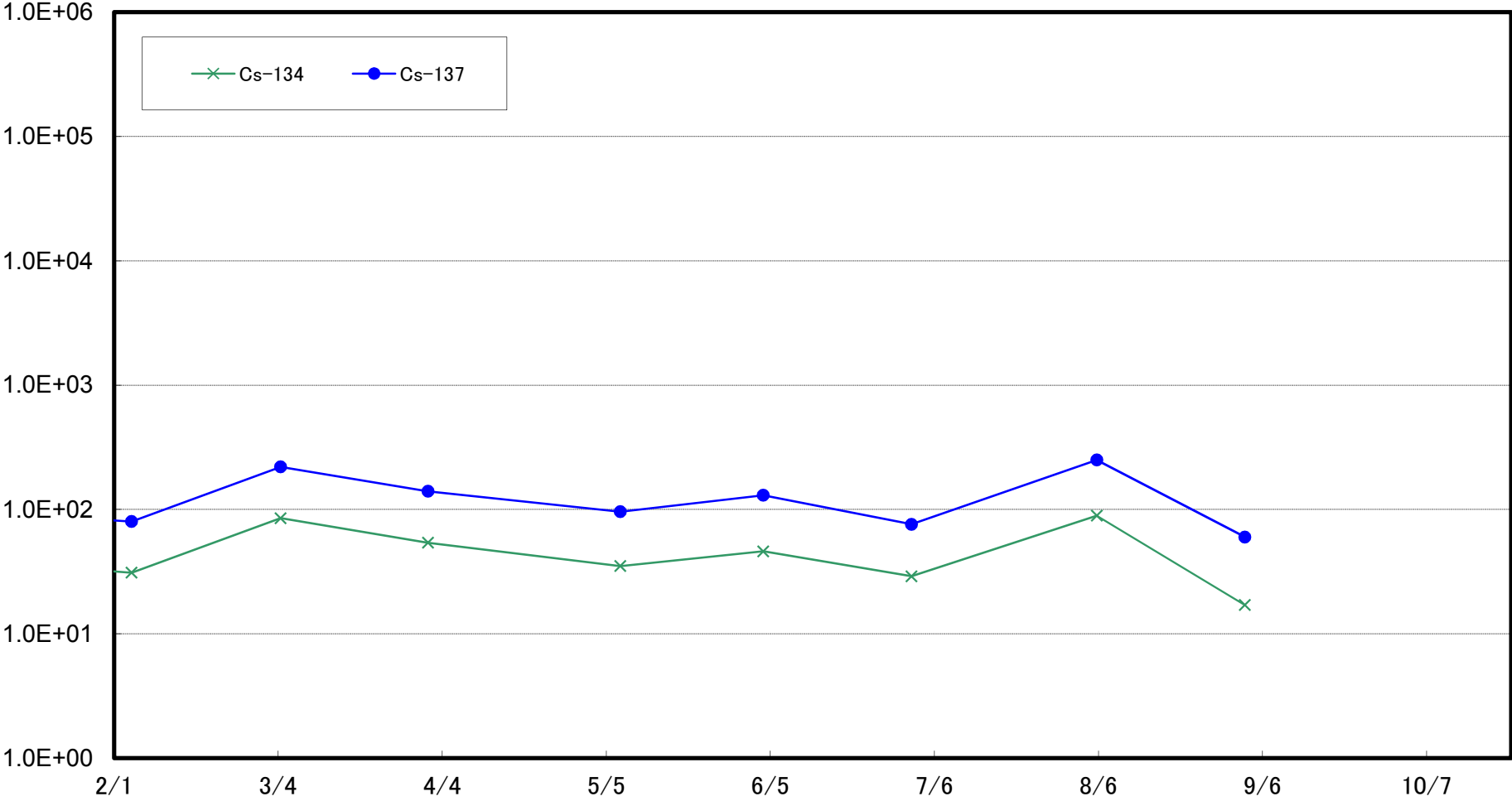
Radioactivity Density of the Marine Soil at South Discharge Channel of Fukushima Daiichi NPS  
(T-2-1) (Bq/kg, dry soil)



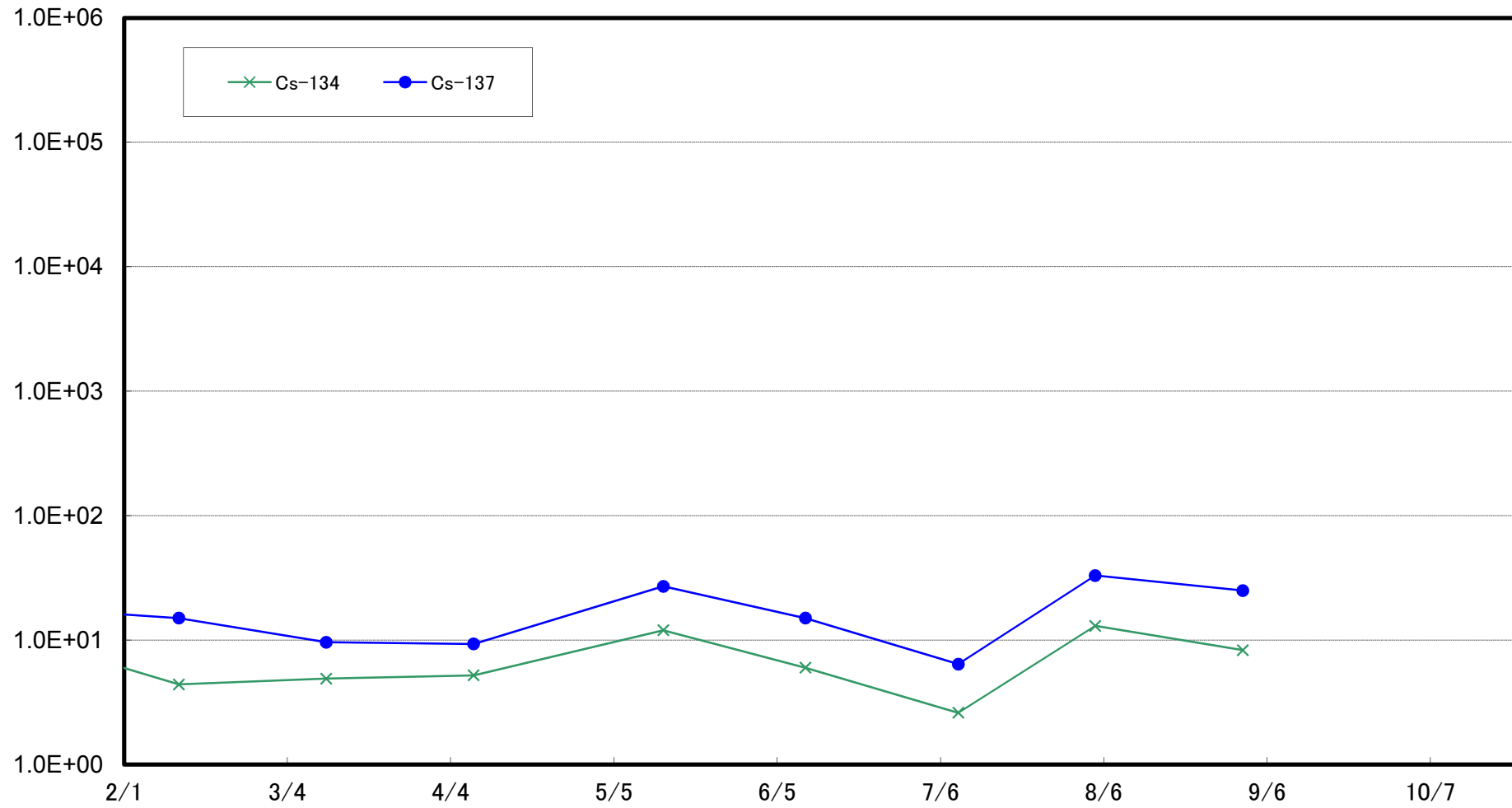
Radioactivity Density of the Marine Soil around North Discharge Channel of Fukushima Daini NPS  
(T-3) (Bq/kg, dry soil)



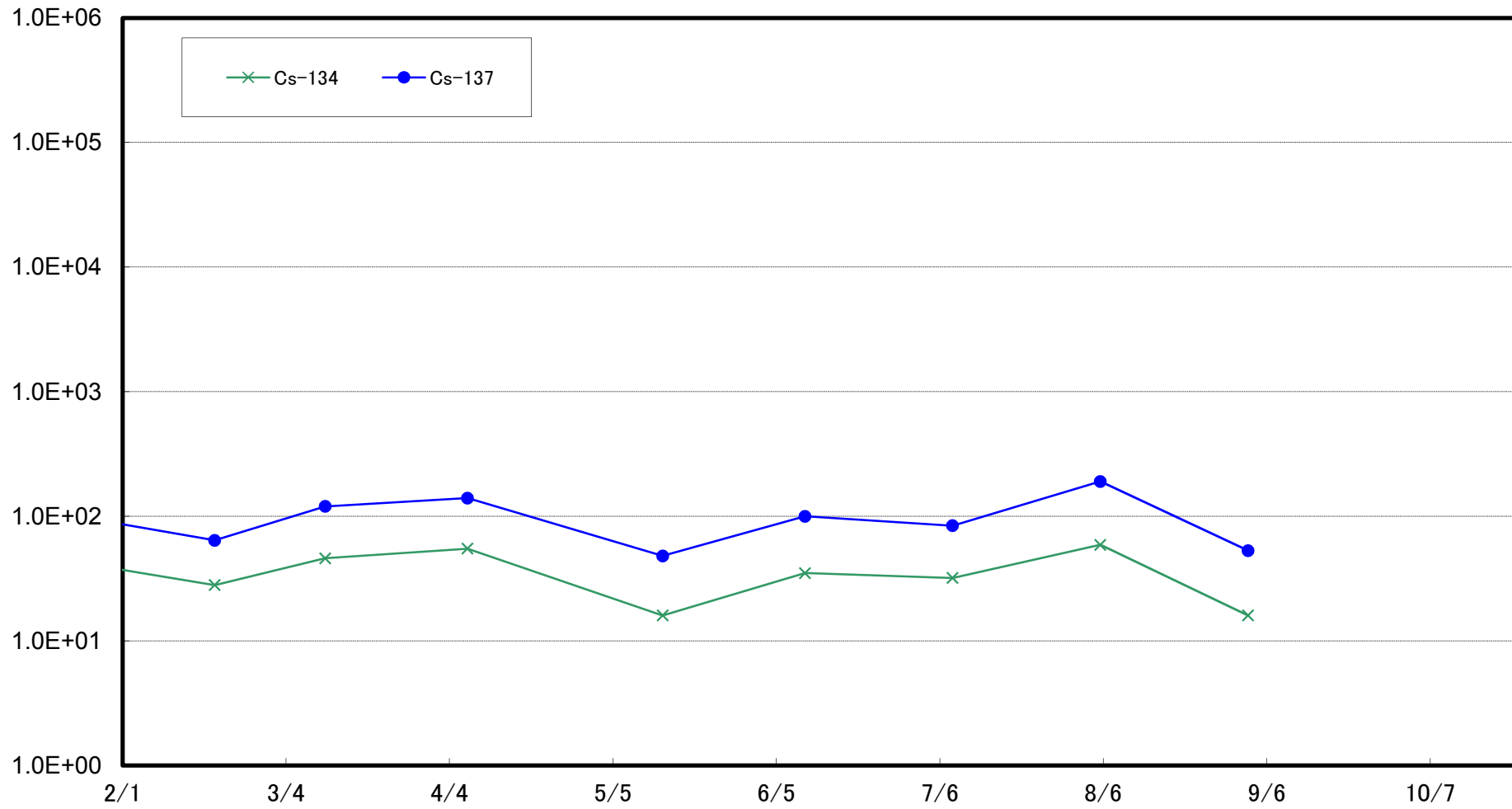
Radioactivity Density of the Marine Soil around Iwasawa Shore  
(T-4) (Bq/kg, dry soil)



Radioactivity Density of the Marine Soil at Around 3km Offshore of Odaka Ward  
(T-14) (Bq/kg , dry soil)

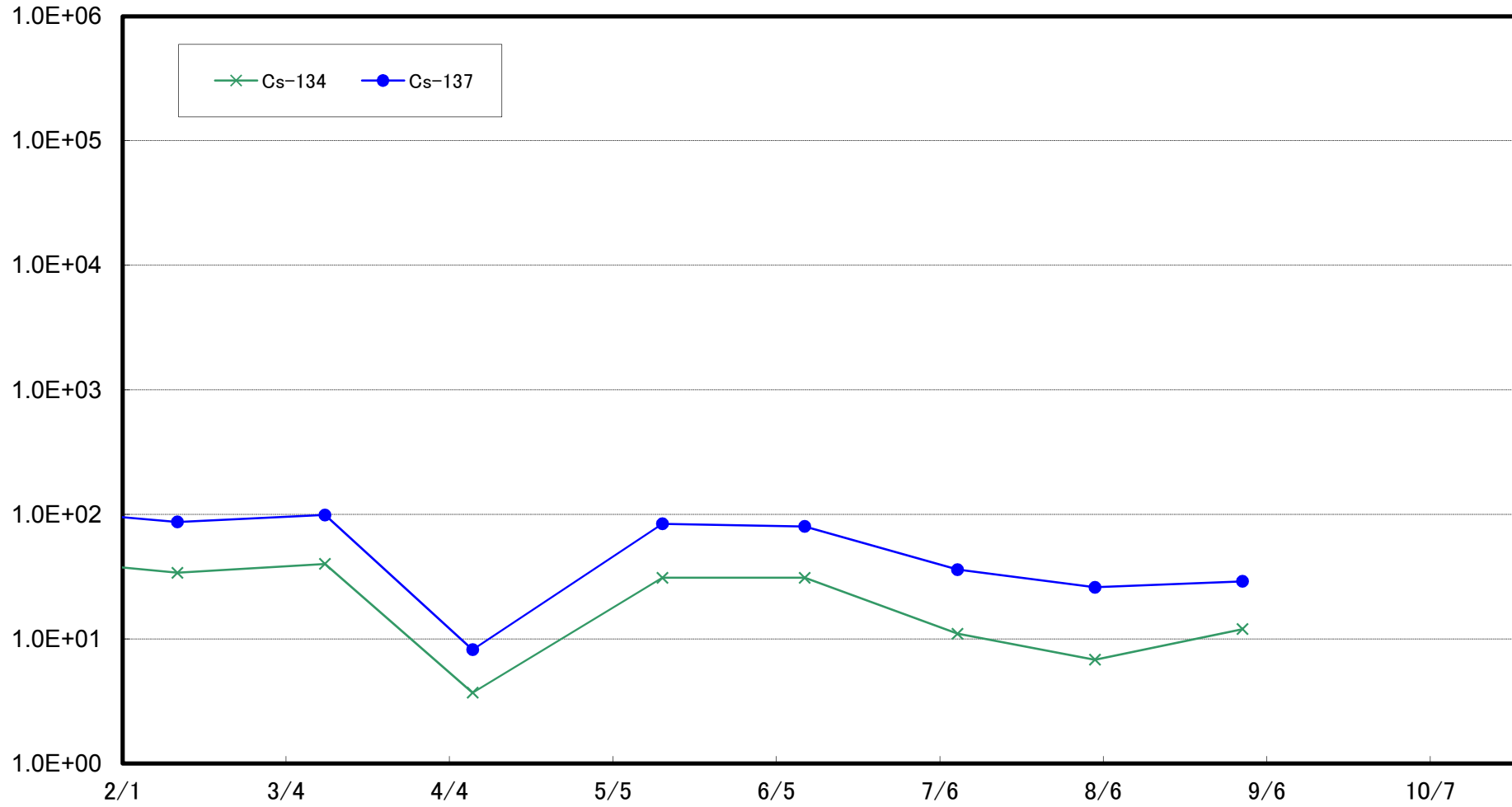


Radioactivity Density of the Marine Soil at 3km Offshore of Iwasawa Shore  
(T-11) (Bq/kg, dry soil)

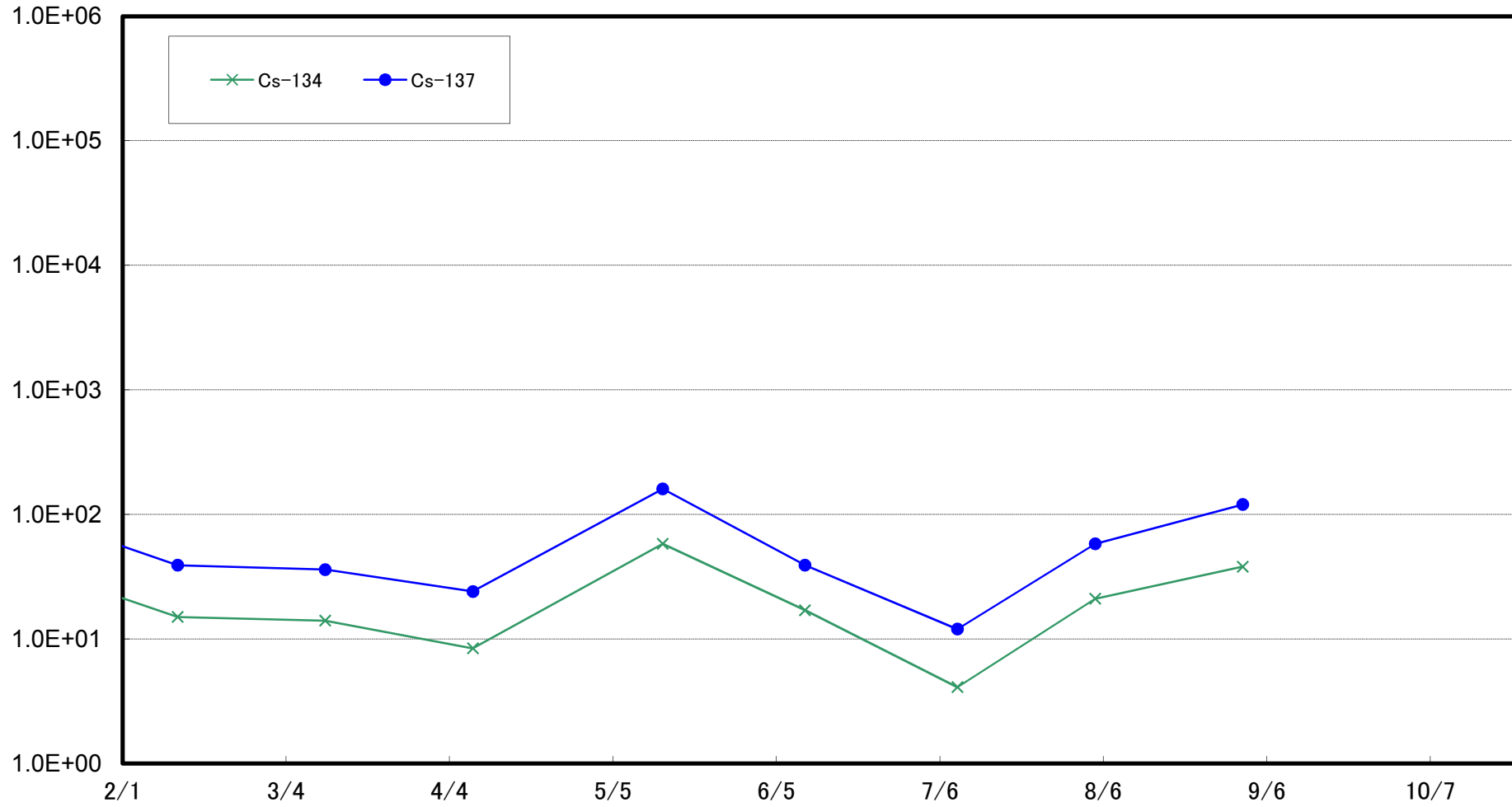




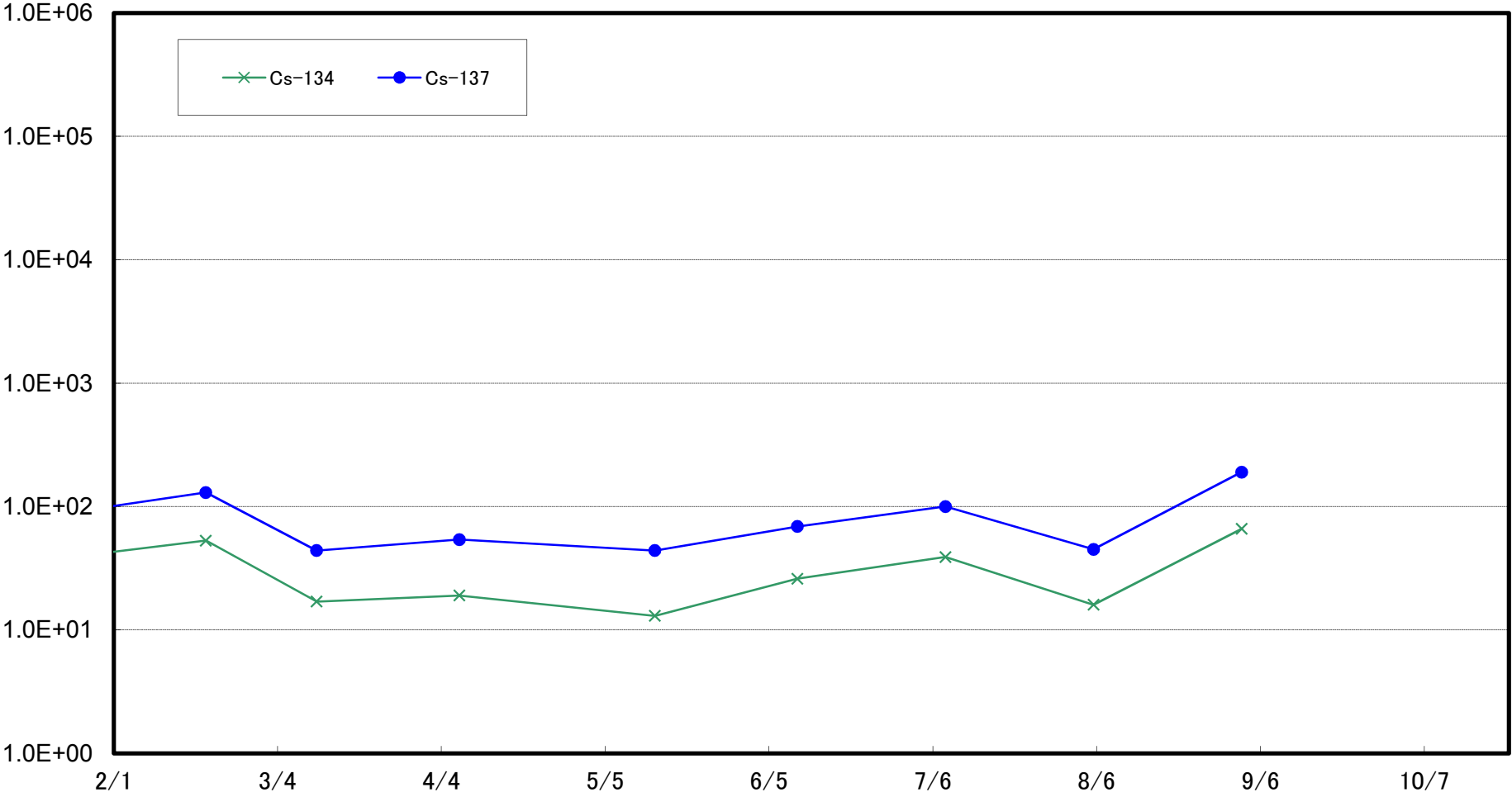
Radioactivity Density of the Marine Soil at 3km Offshore of Ukedo River  
(T-D1) (Bq/kg, dry soil)



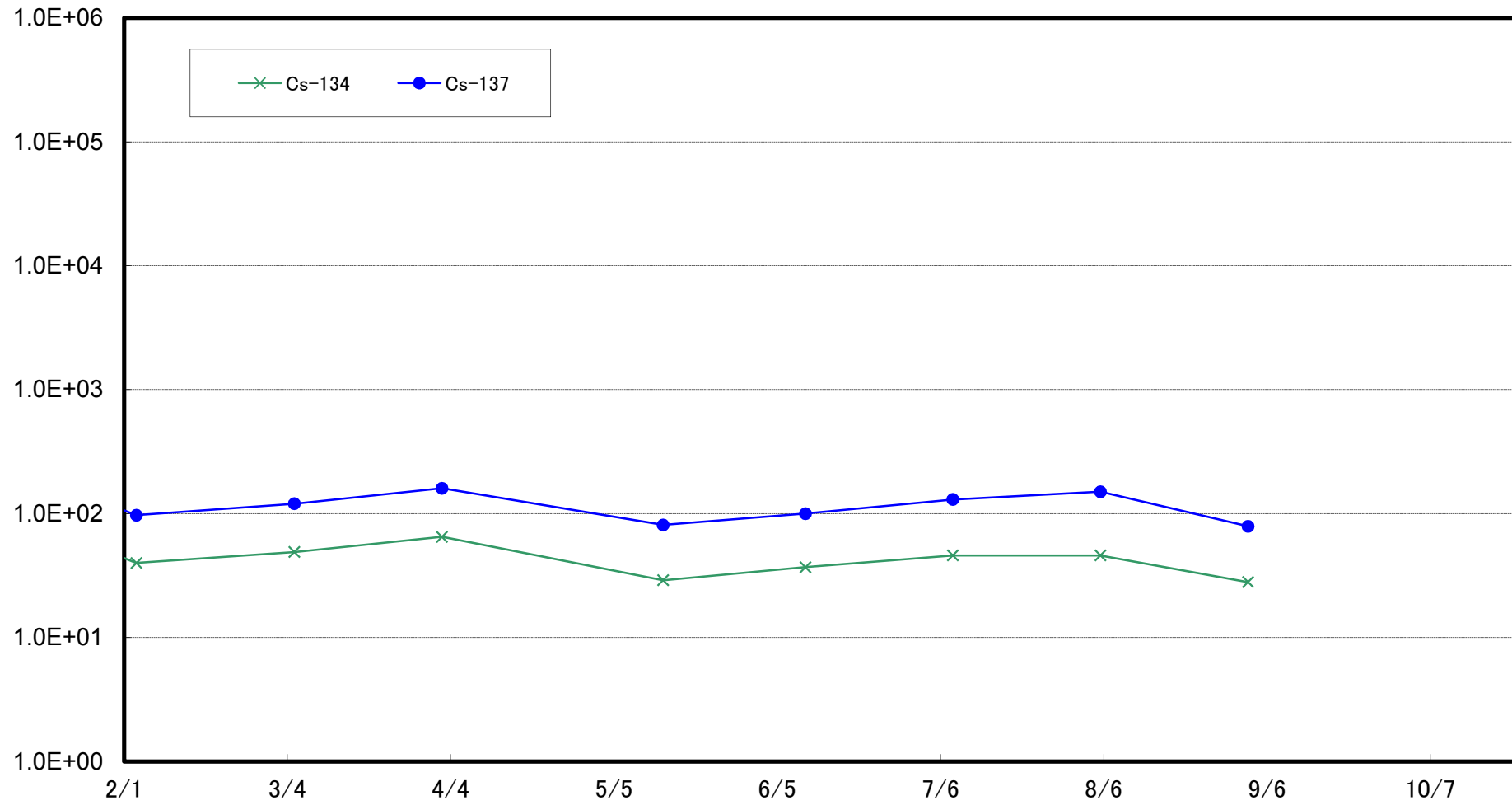
Radioactivity Density of the Marine Soil at 3km Offshore of Fukushima Daiichi NPS  
(T-D5) (Bq/kg , dry soil)



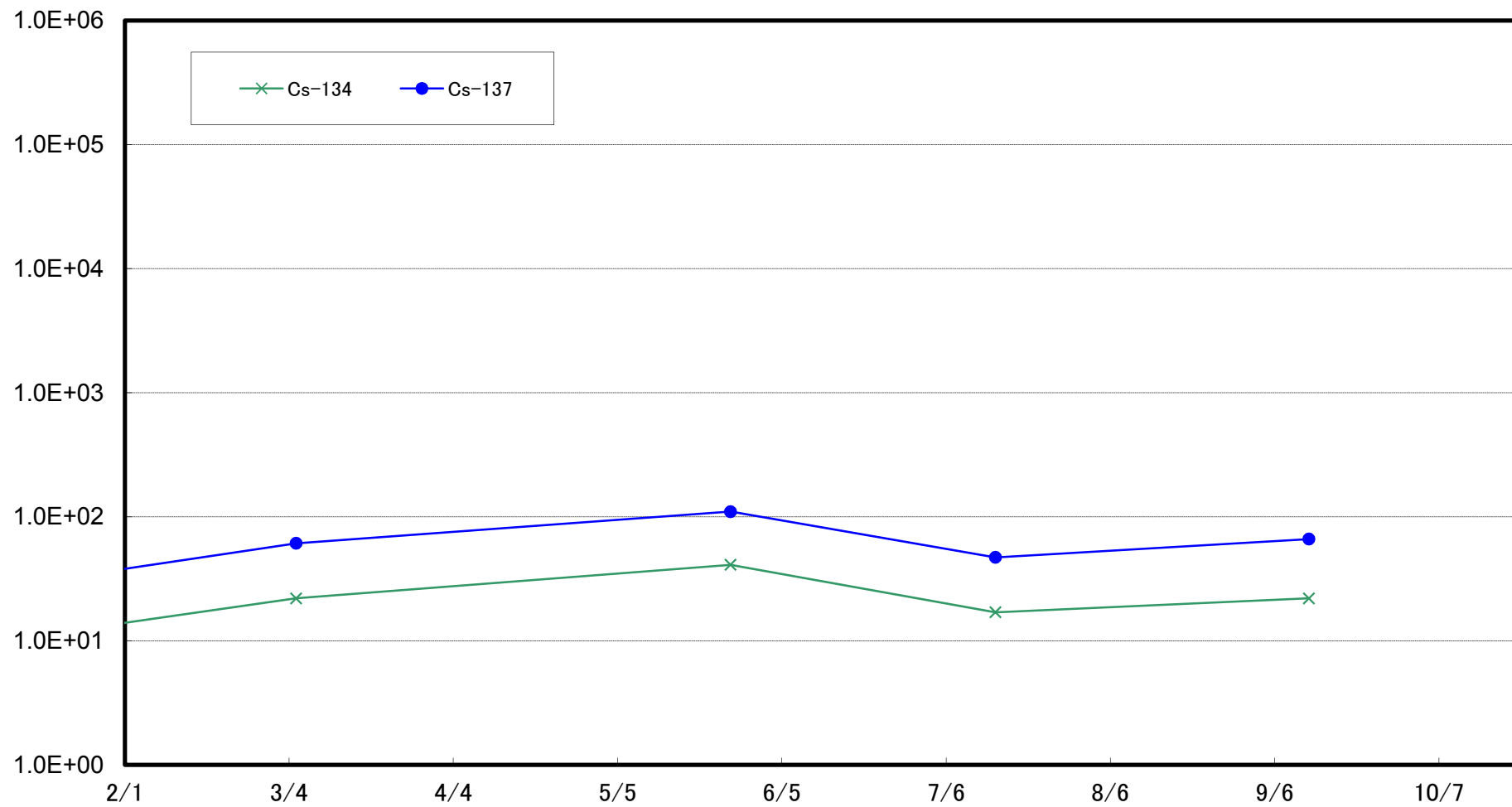
Radioactivity Density of the Marine Soil at 3km Offshore of Fukushima Daini NPS  
(T-D9) (Bq/kg, dry soil)



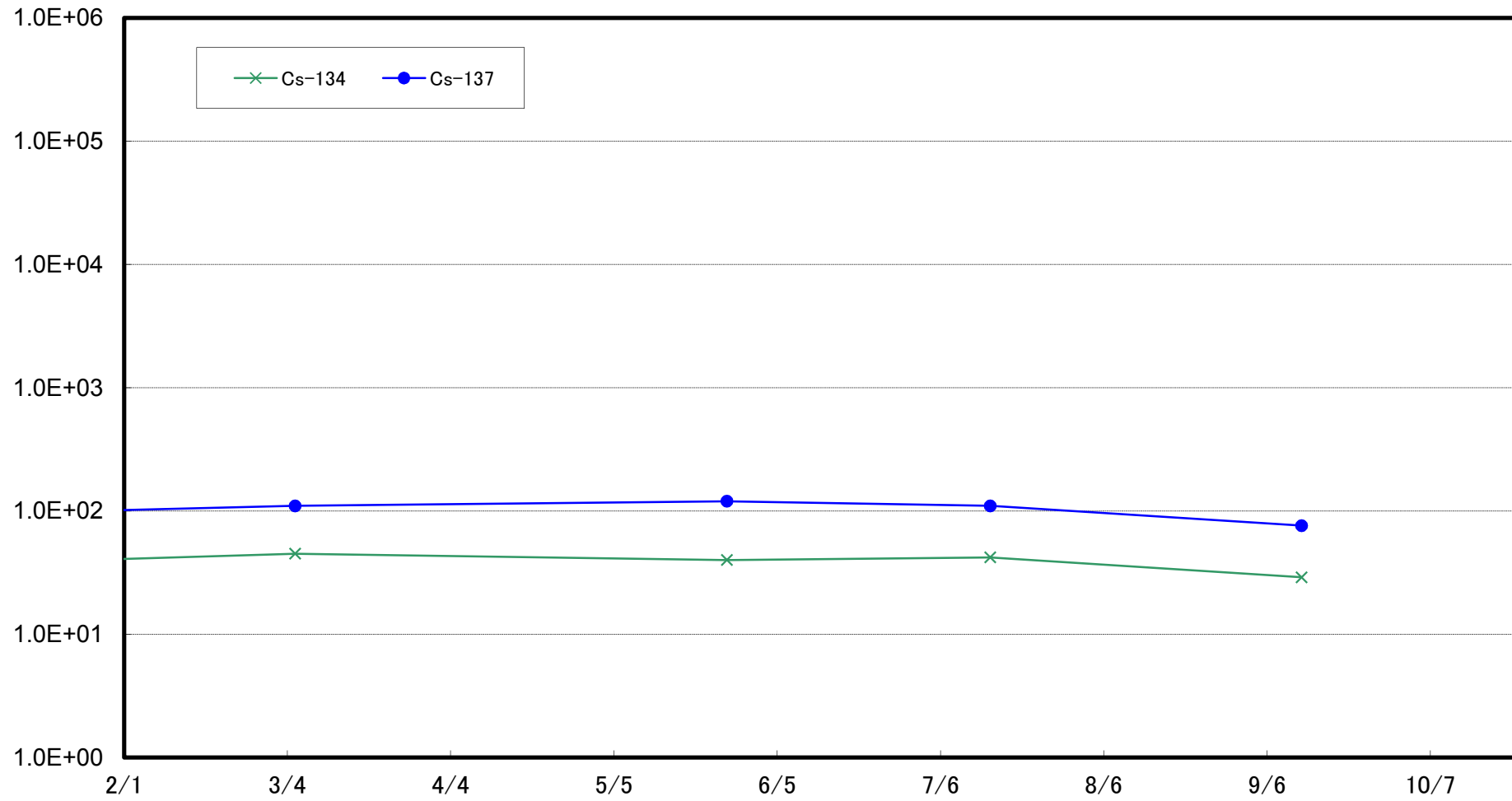
Radioactivity Density of the Marine Soil at 15km Offshore of Fukushima Daiichi NPS  
(T-5) (Bq/kg, dry soil)



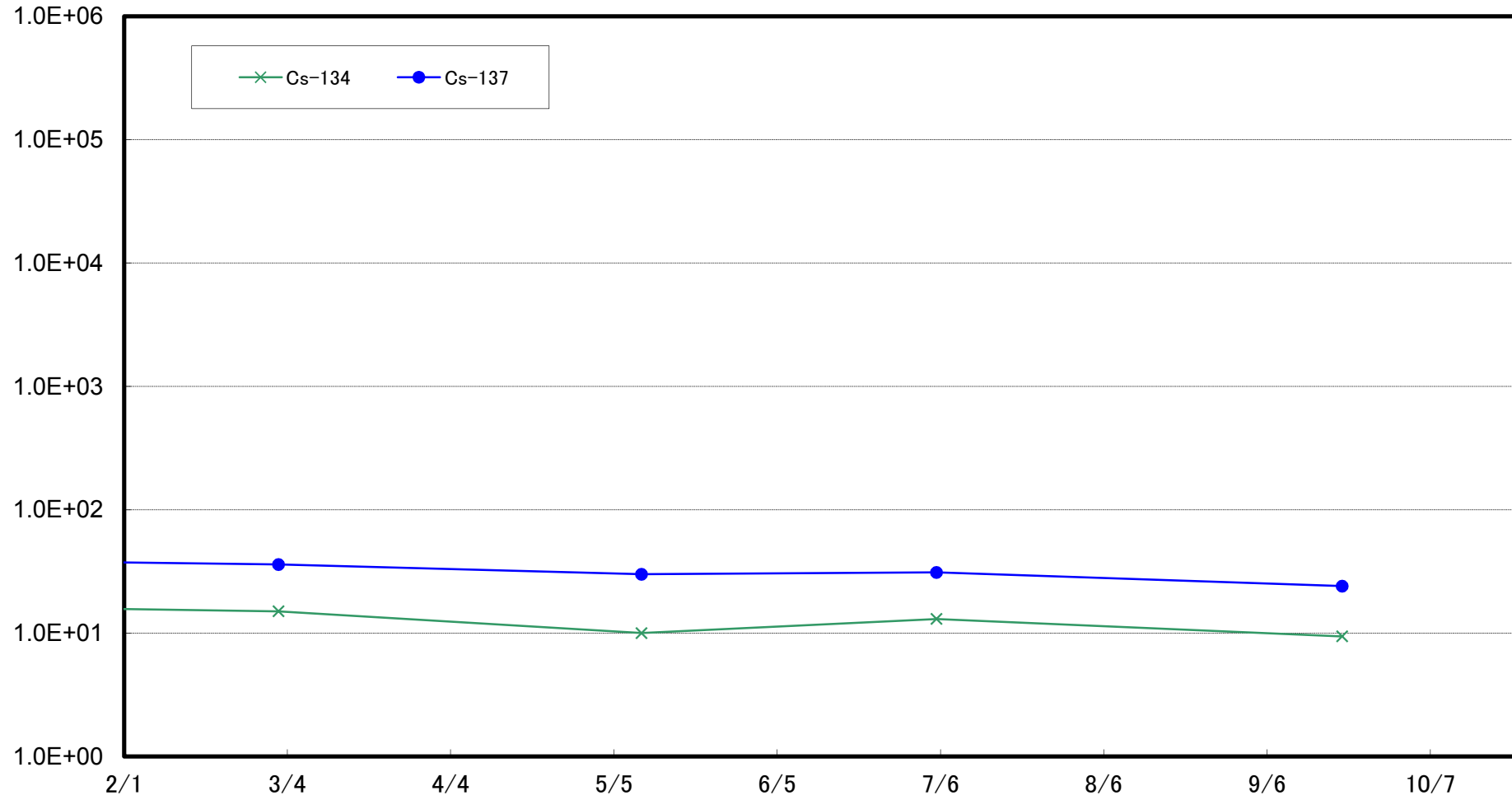
Radioactivity Density of the Marine Soil at 15km Offshore of Iwasawa Shore (T-7) (Bq/kg (dry soil))



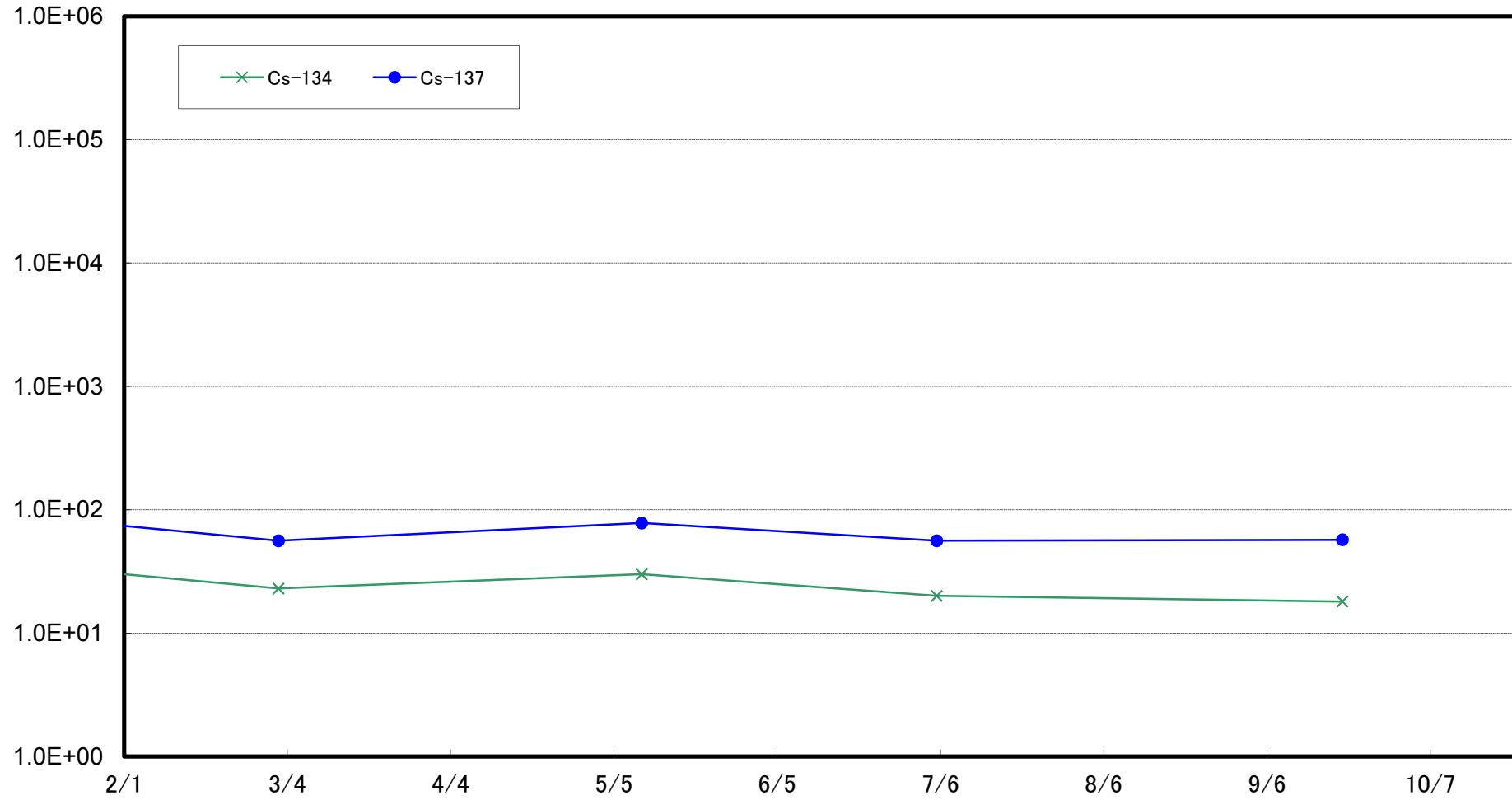
Radioactivity Density of the Marine Soil at 3km Offshore of Onahama Port (T-18) (Bq/kg (dry soil))



Radioactivity Density of the Marine Soil at 3km offshore of North of Iwaki City (T-12) (Bq/kg (dry soil))

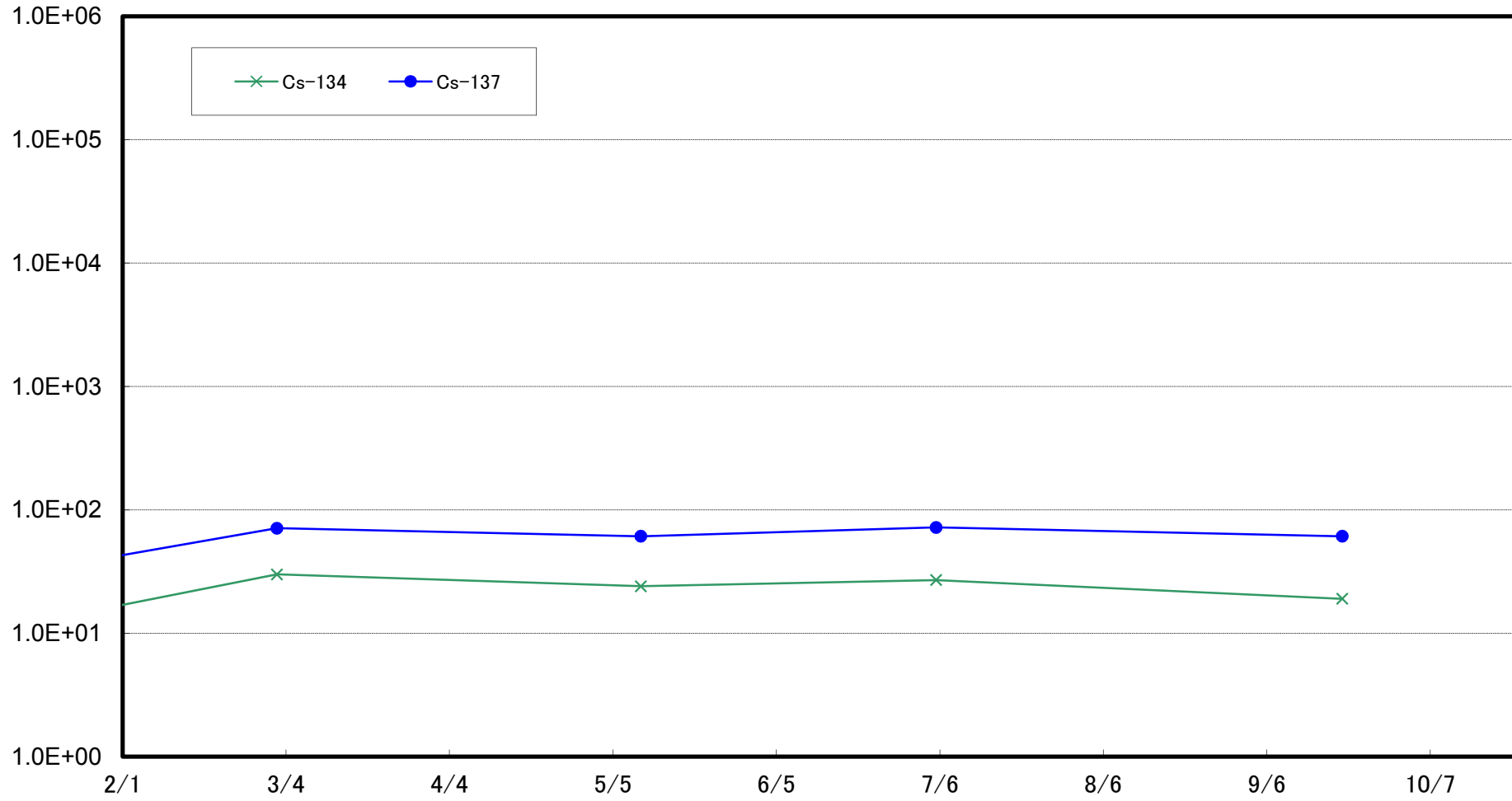


Radioactivity Density of the Marine Soil at 1km Offshore of Natsui River (T-17-1) (Bq/kg (dry soil))

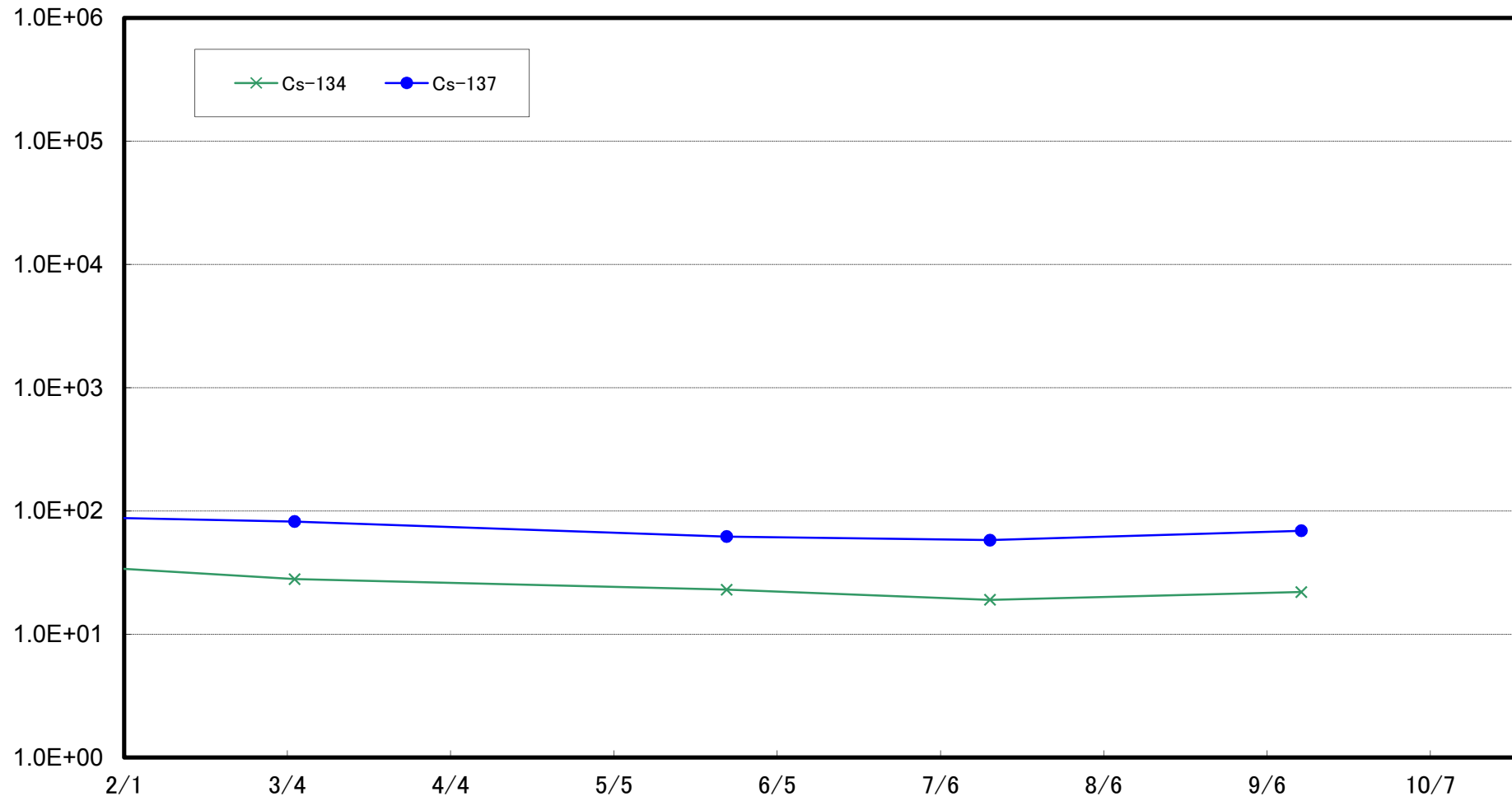




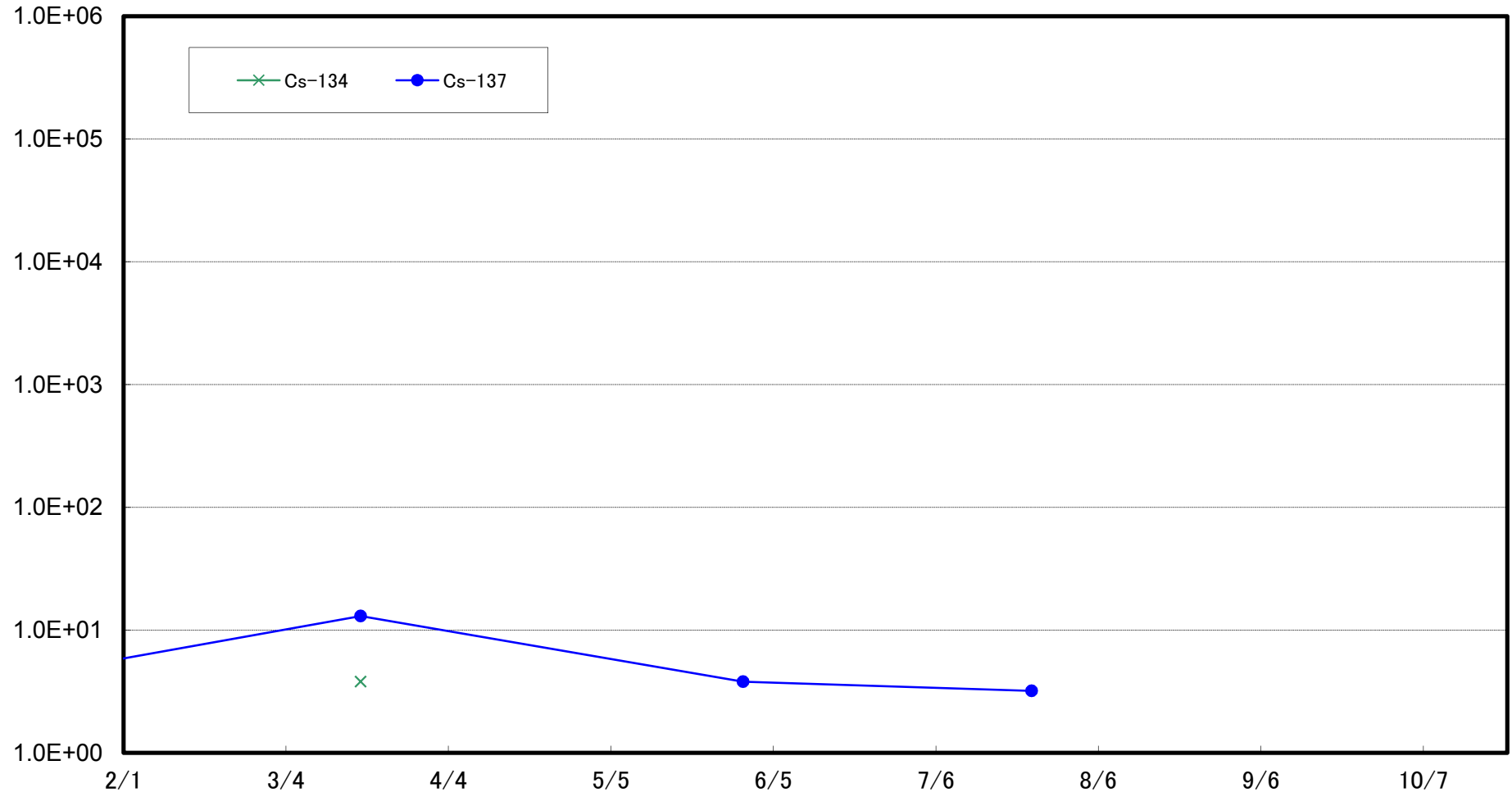
Radioactivity Density of the Marine Soil at 3km Offshore of Toyoma (T-20) (Bq/kg (dry soil))



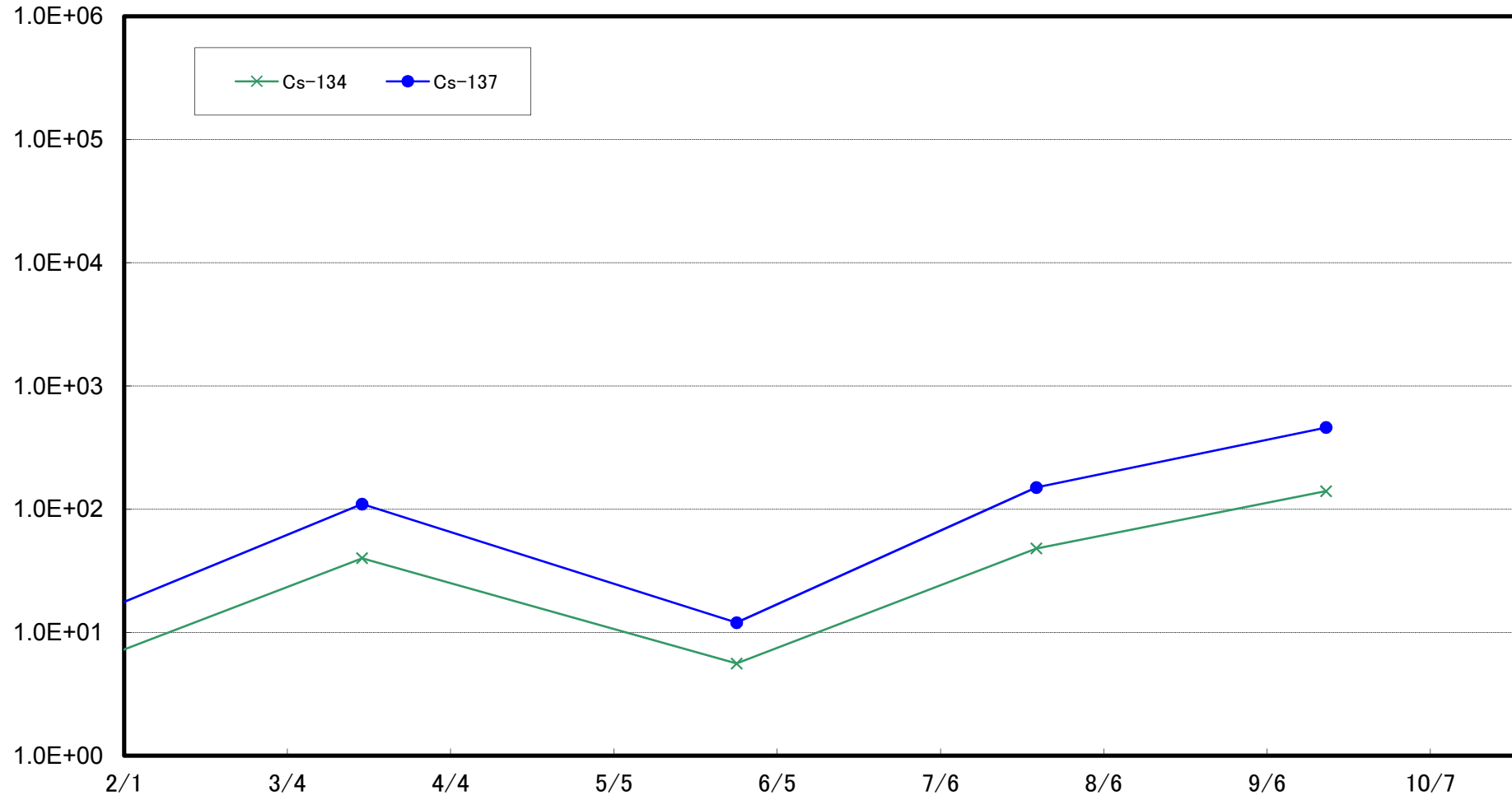
Radioactivity Density of the Marine Soil at 5km Offshore of Numanouchi (T-M10) (Bq/kg (dry soil))



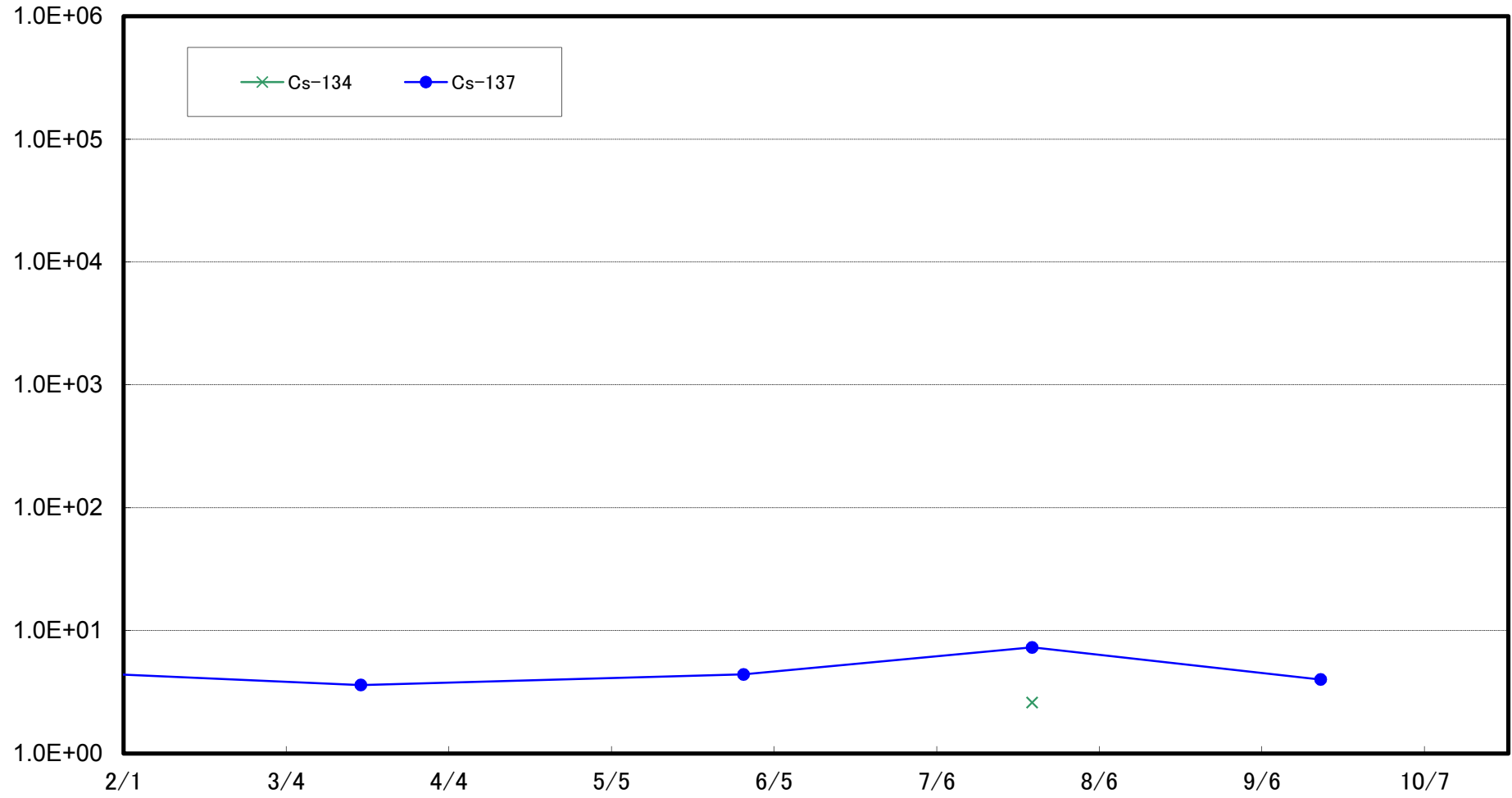
Radioactivity Density of the Marine Soil at 1km Offshore of Nida River (T-13-1) (Bq/kg (dry soil))



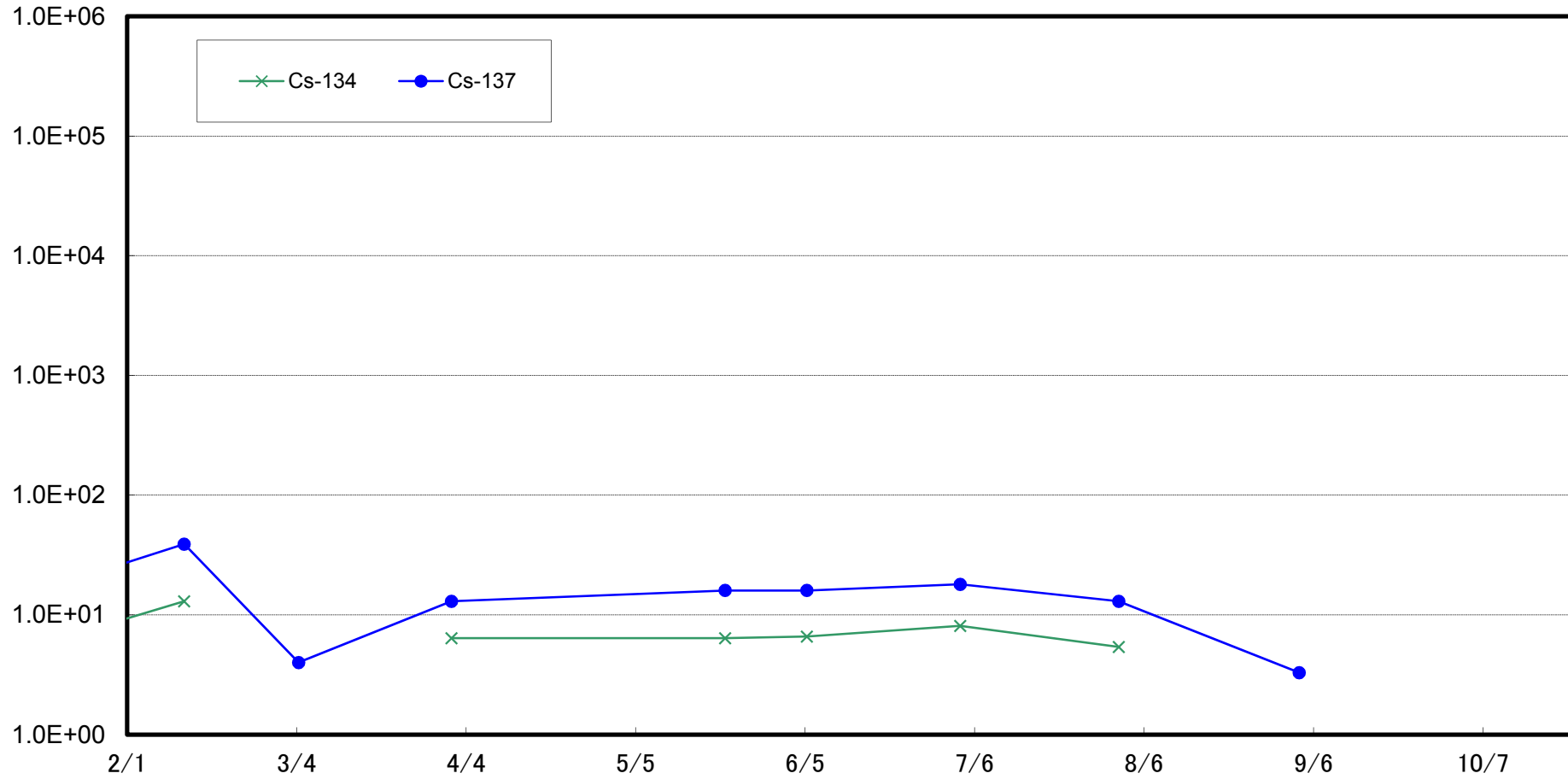
Radioactivity Density of the Marine Soil at 3km Offshore of Soma (T-22) (Bq/kg (dry soil))



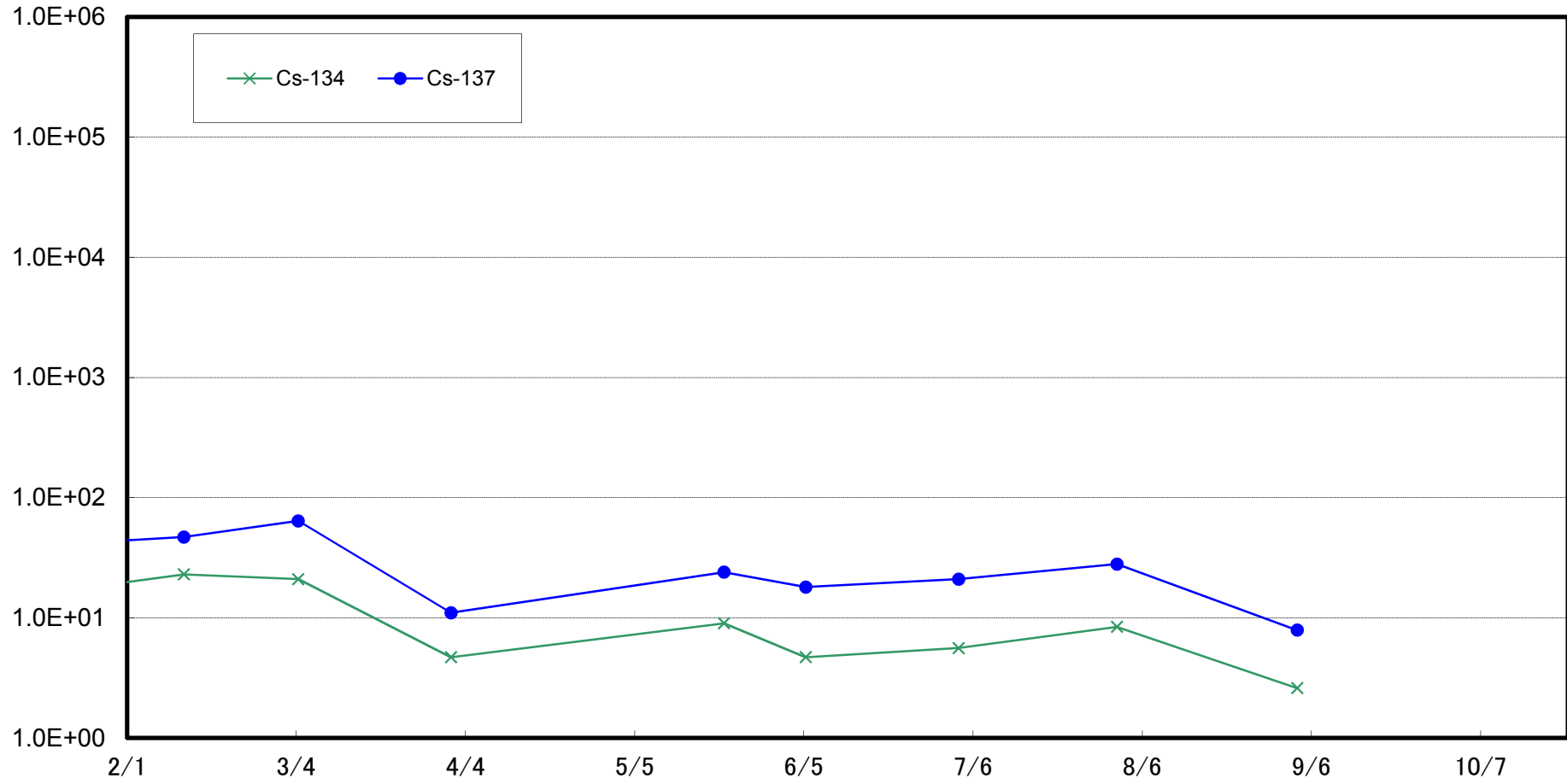
Radioactivity Density of the Marine Soil at 5km Offshore of Kashima (T-MA) (Bq/kg (dry soil))



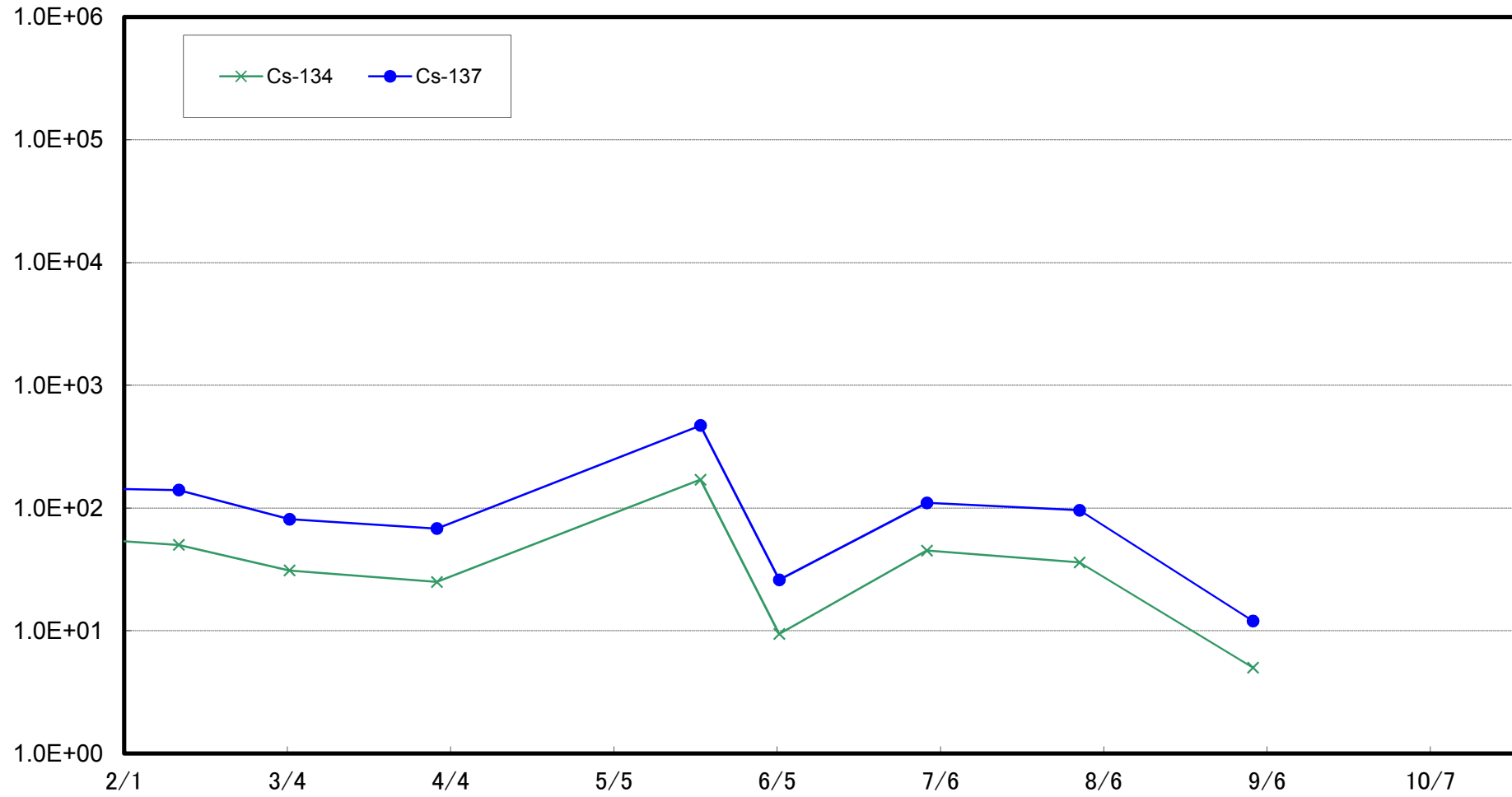
Radioactivity Density of the Marine Soil at 1km Offshore of Murakami, Odaka Ward (T-①)  
(Bq/kg, dry soil)



Radioactivity Density of the Marine Soil at 2km Offshore of Murakami, Odaka Ward (T-②)  
(Bq/kg, dry soil)

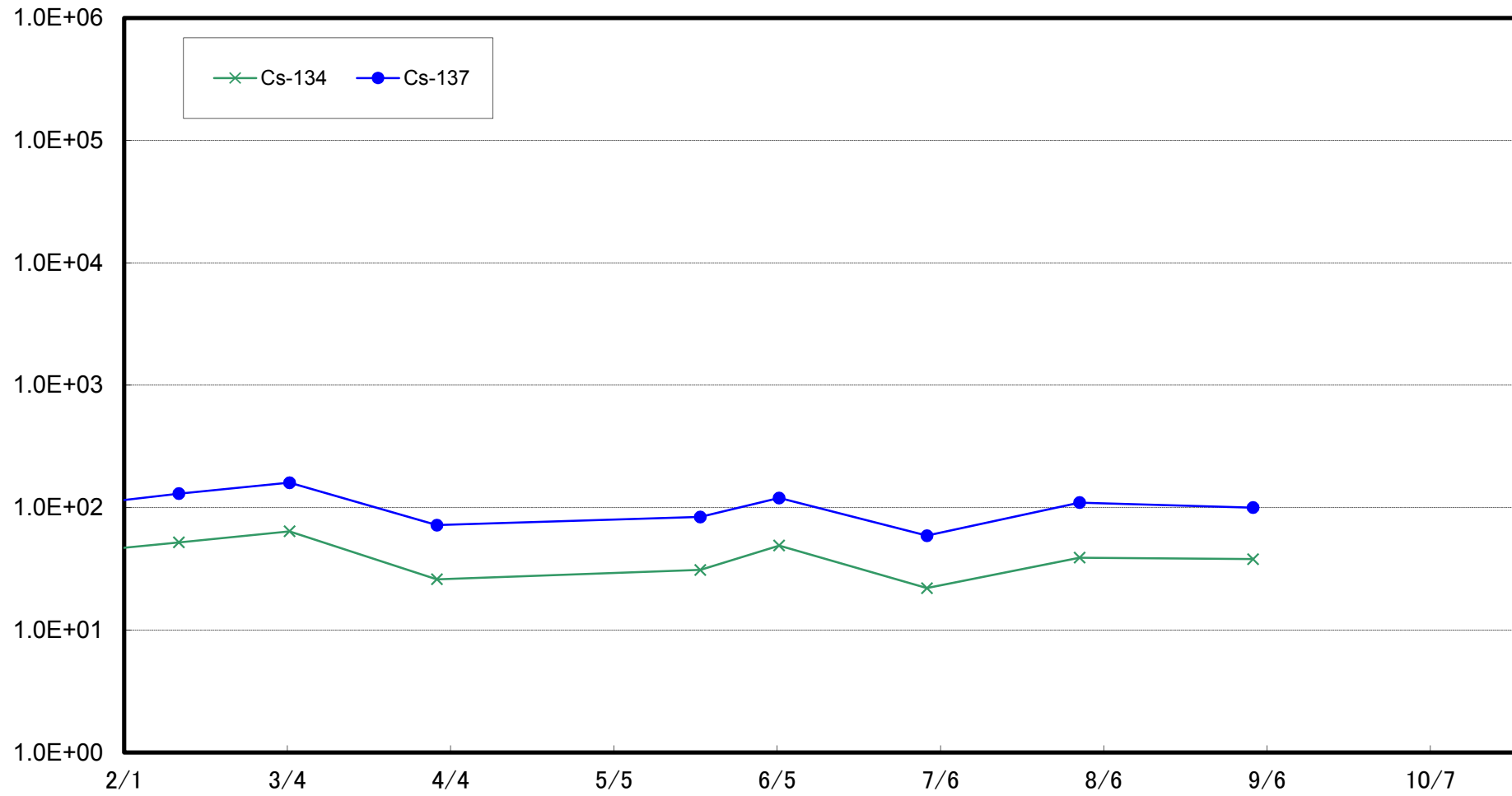


Radioactivity Density of the Marine Soil at 1km Offshore of Ukedo, Namie Town (T-③)  
(Bq/kg, dry soil)

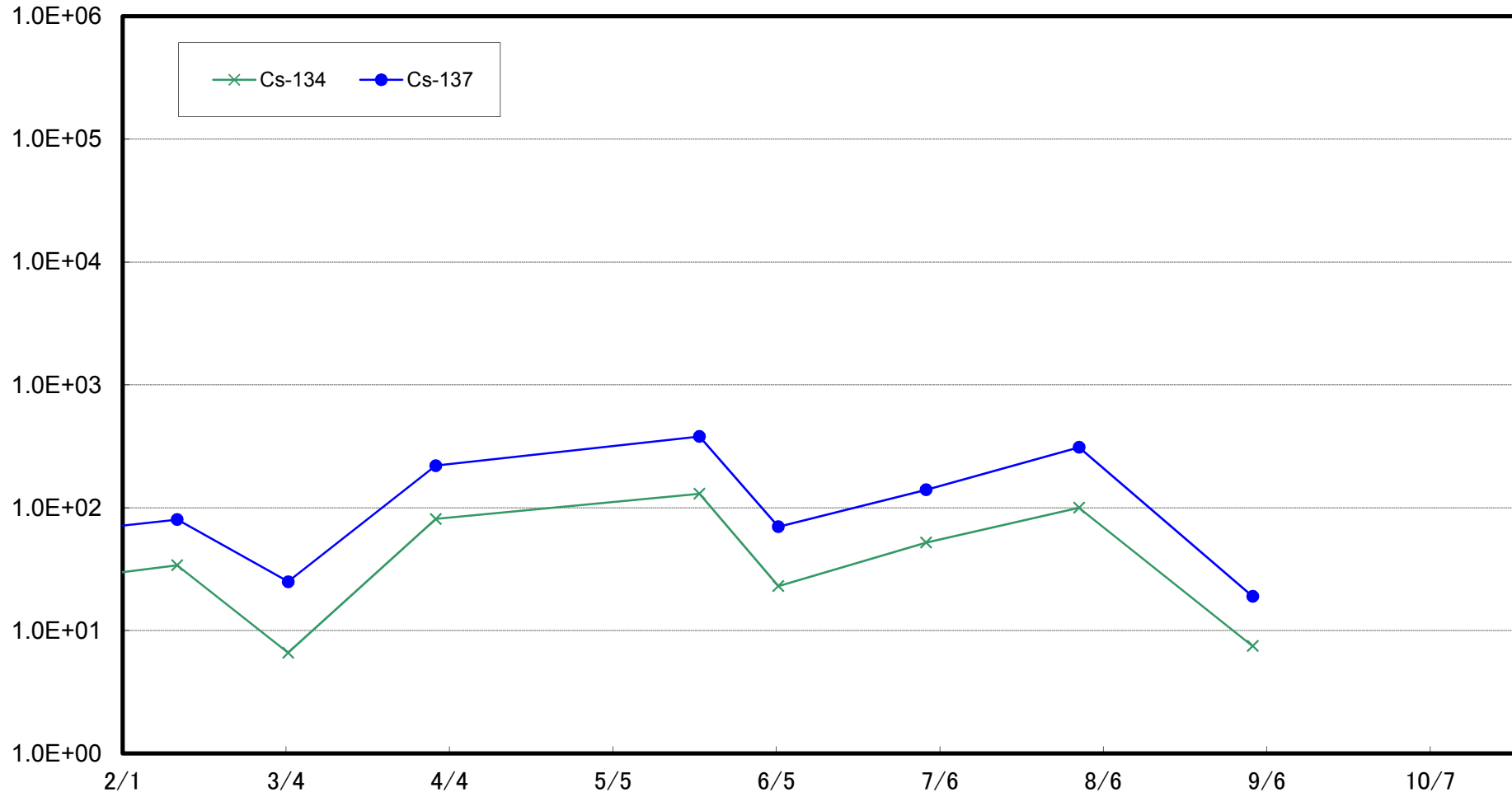




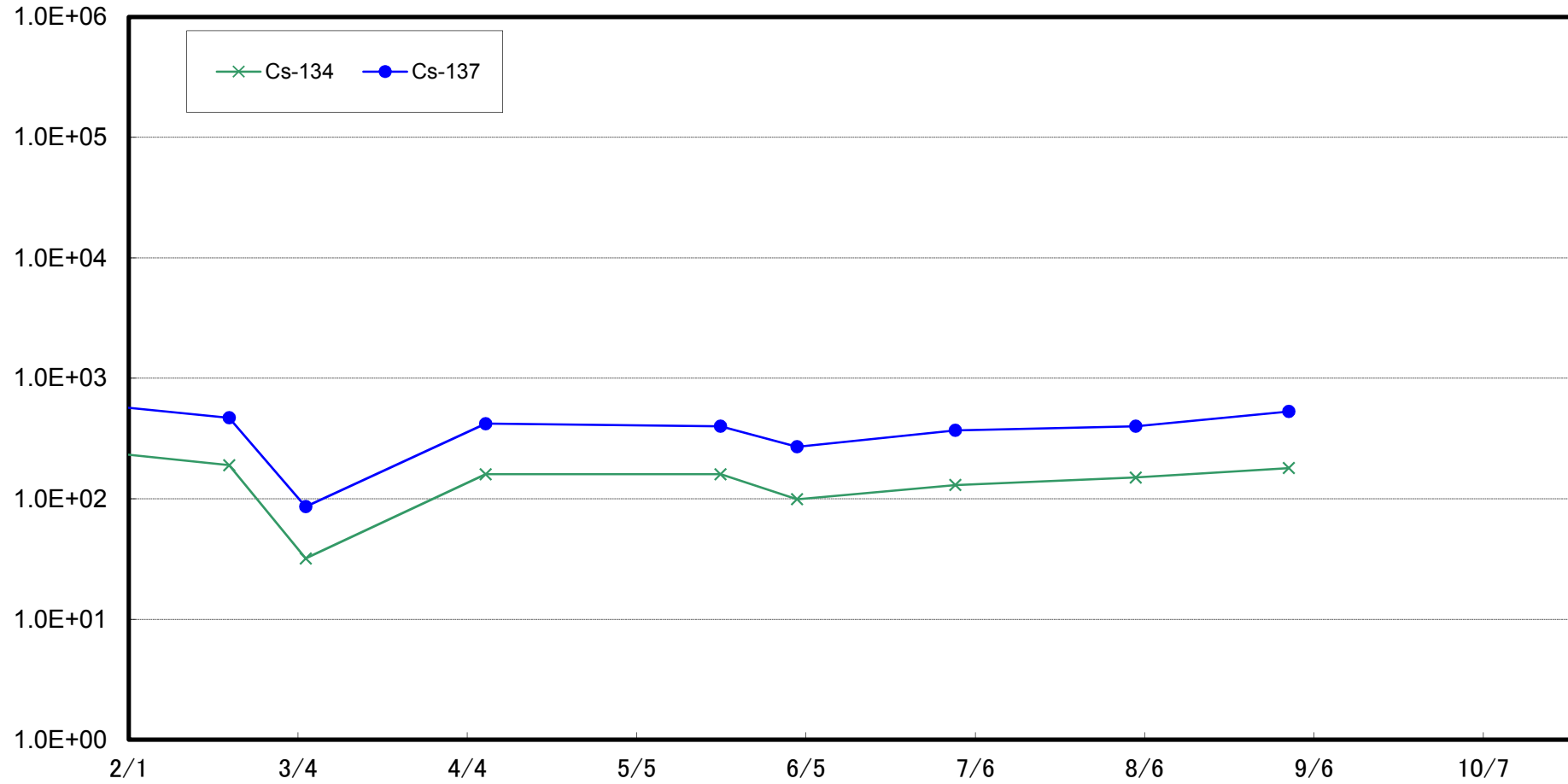
Radioactivity Density of the Marine Soil at 2km Offshore of Ukedo, Namie Town (T-④)  
(Bq/kg, dry soil)



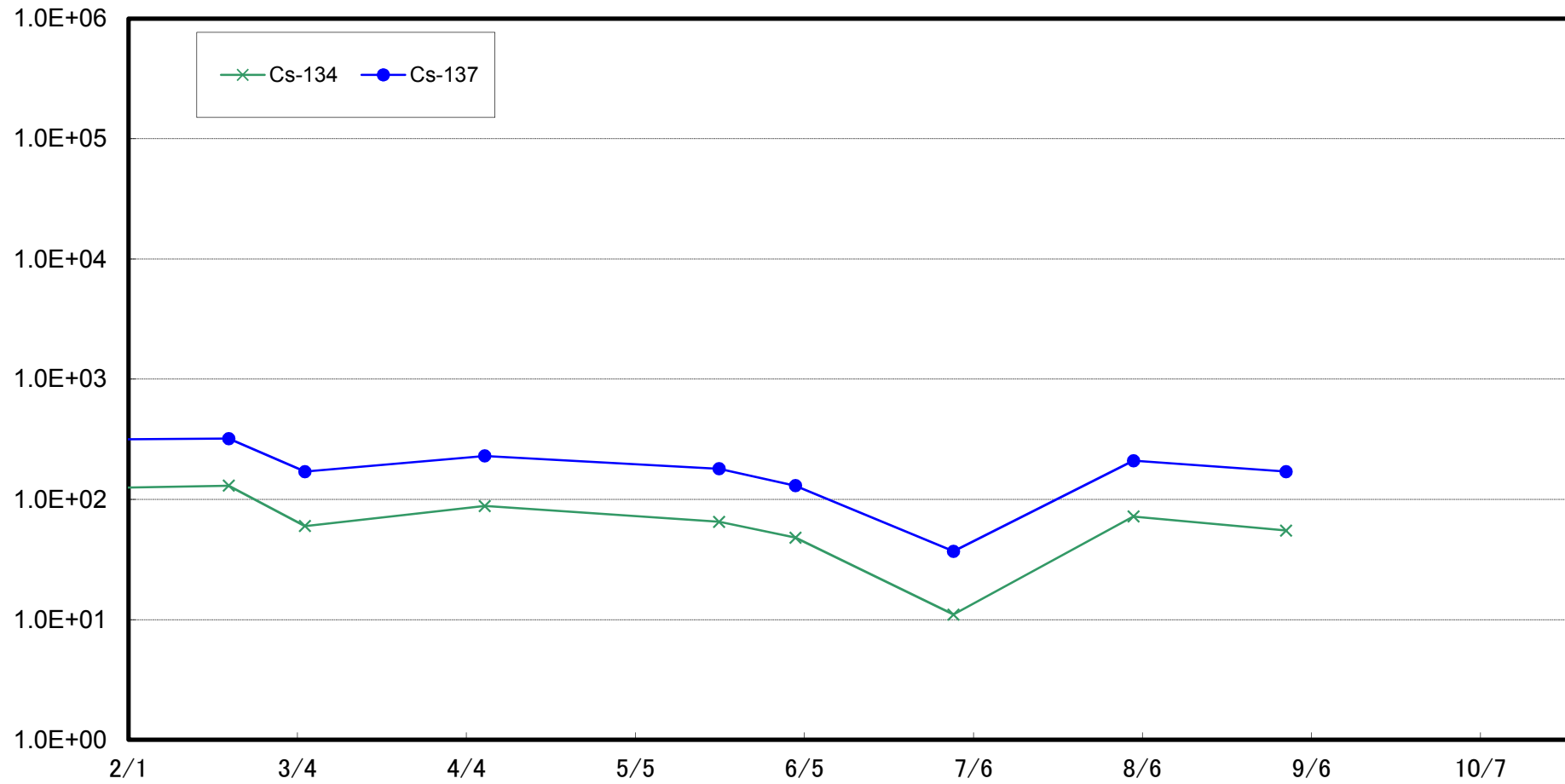
Radioactivity Density of the Marine Soil at 3km Offshore of Ukedo, Namie Town (T-⑤)  
(Bq/kg, dry soil)



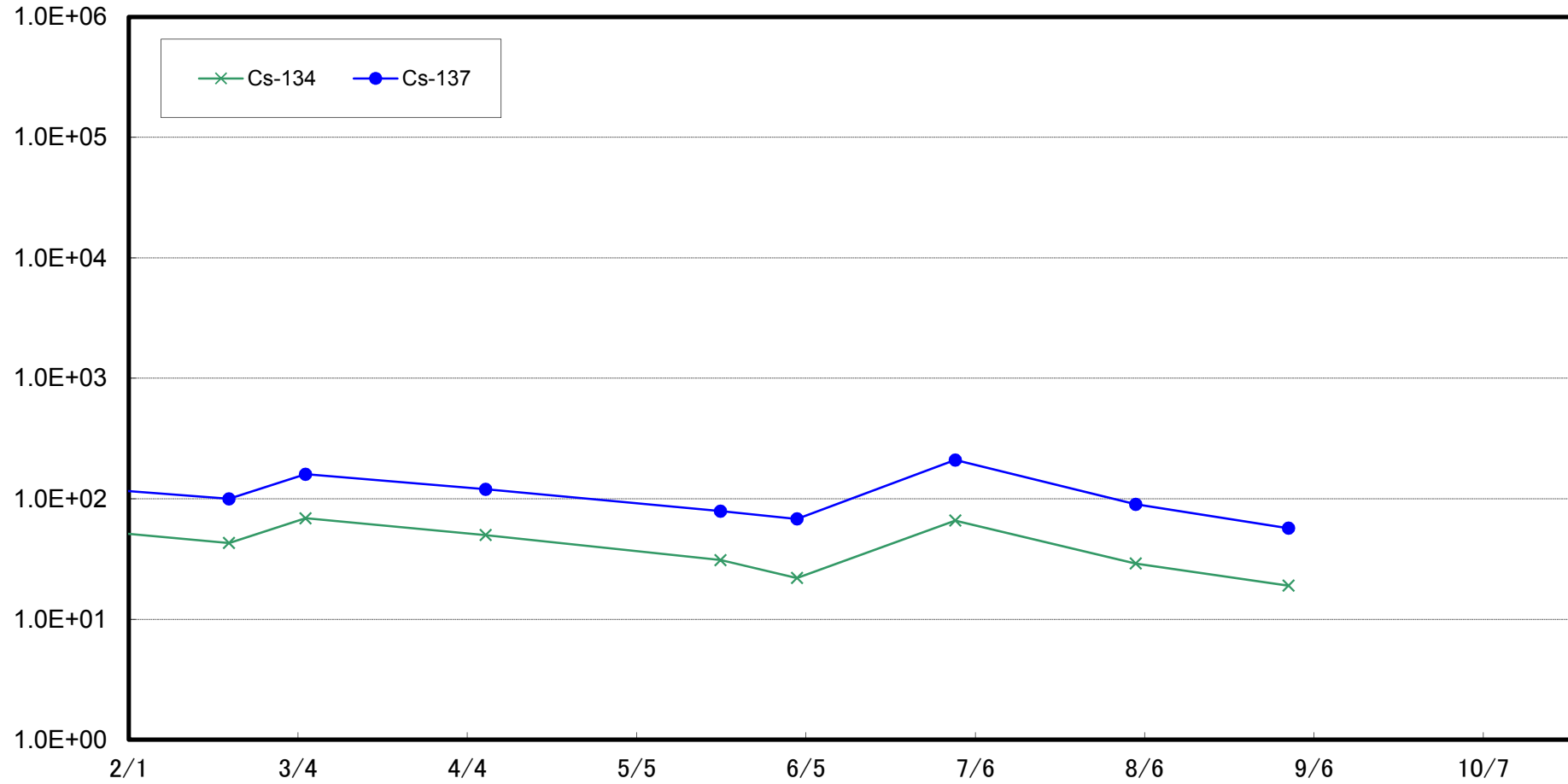
Radioactivity Density of the Marine Soil at 1km Offshore of Kumagawa, Okuma Town (T-⑥)  
(Bq/kg, dry soil)



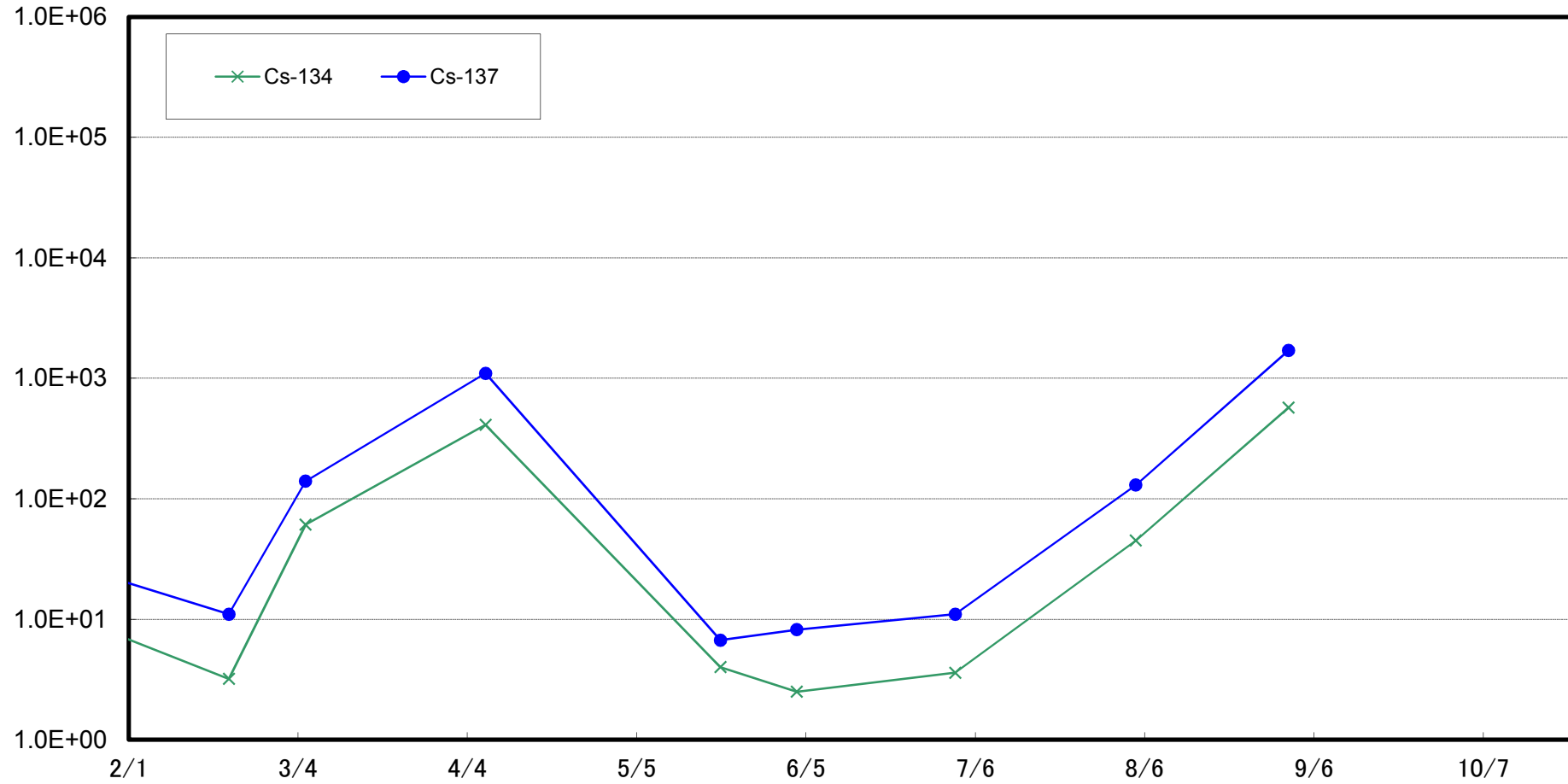
Radioactivity Density of the Marine Soil at 2km Offshore of Kumagawa, Okuma Town (T-⑦)  
(Bq/kg, dry soil)



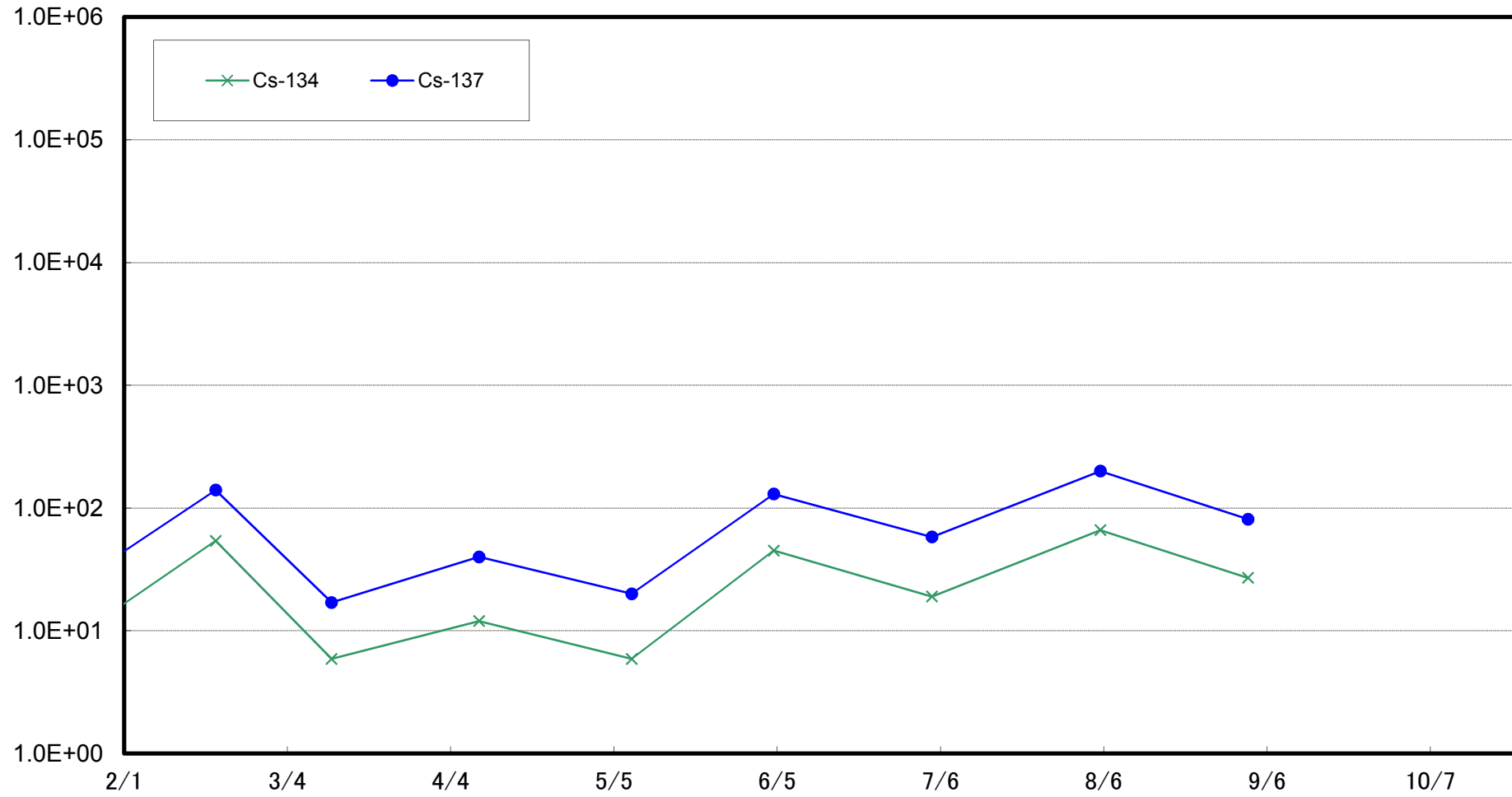
Radioactivity Density of the Marine Soil at 3km Offshore of Kumagawa, Okuma Town (T-⑧)  
(Bq/kg, dry soil)



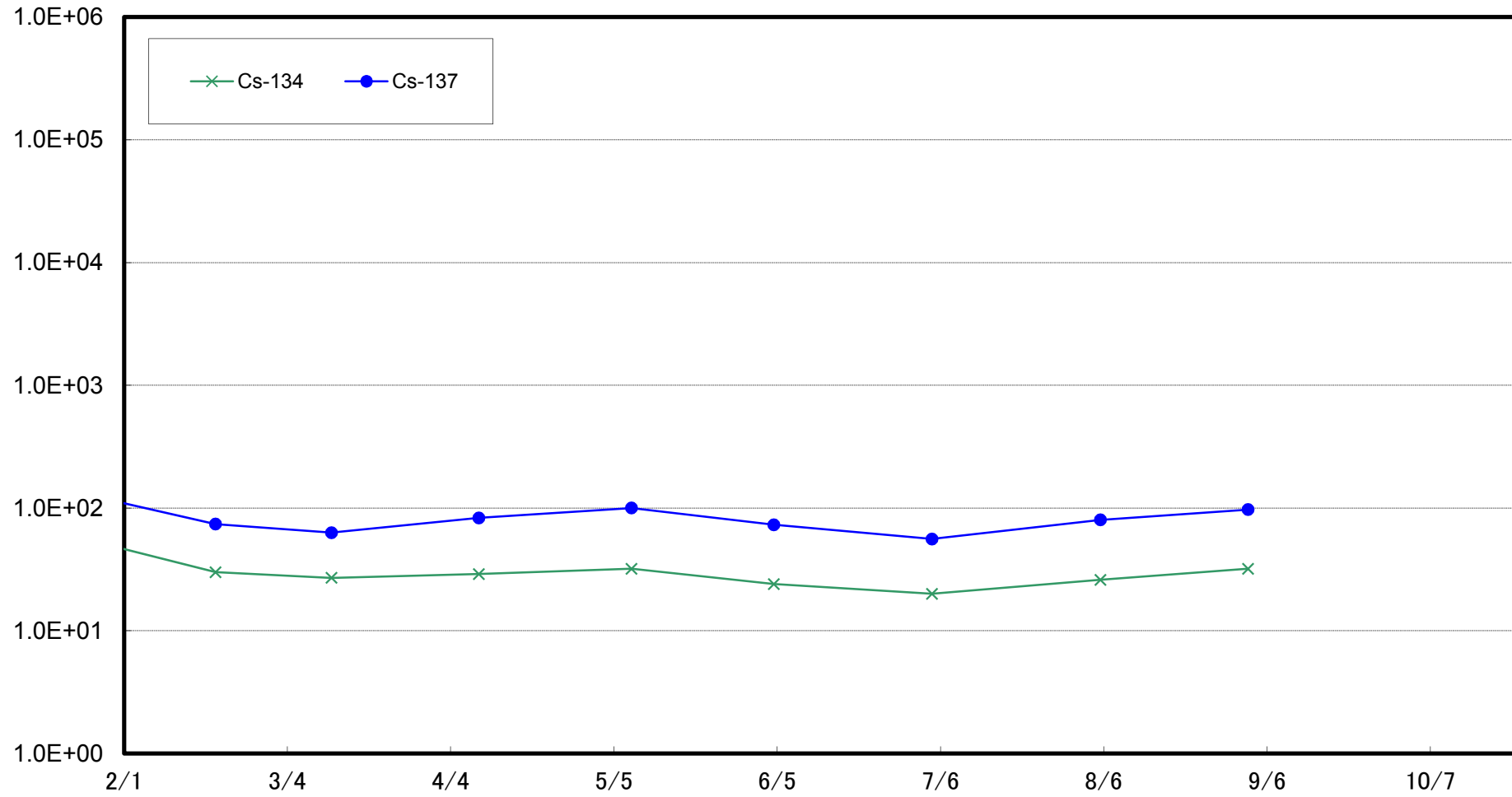
Radioactivity Density of the Marine Soil at 5km Offshore of Kumagawa, Okuma Town (T-9)  
(Bq/kg, dry soil)



Radioactivity Density of the Marine Soil at 10km Offshore of Kumagawa, Okuma Town (T-10)  
(Bq/kg, dry soil)

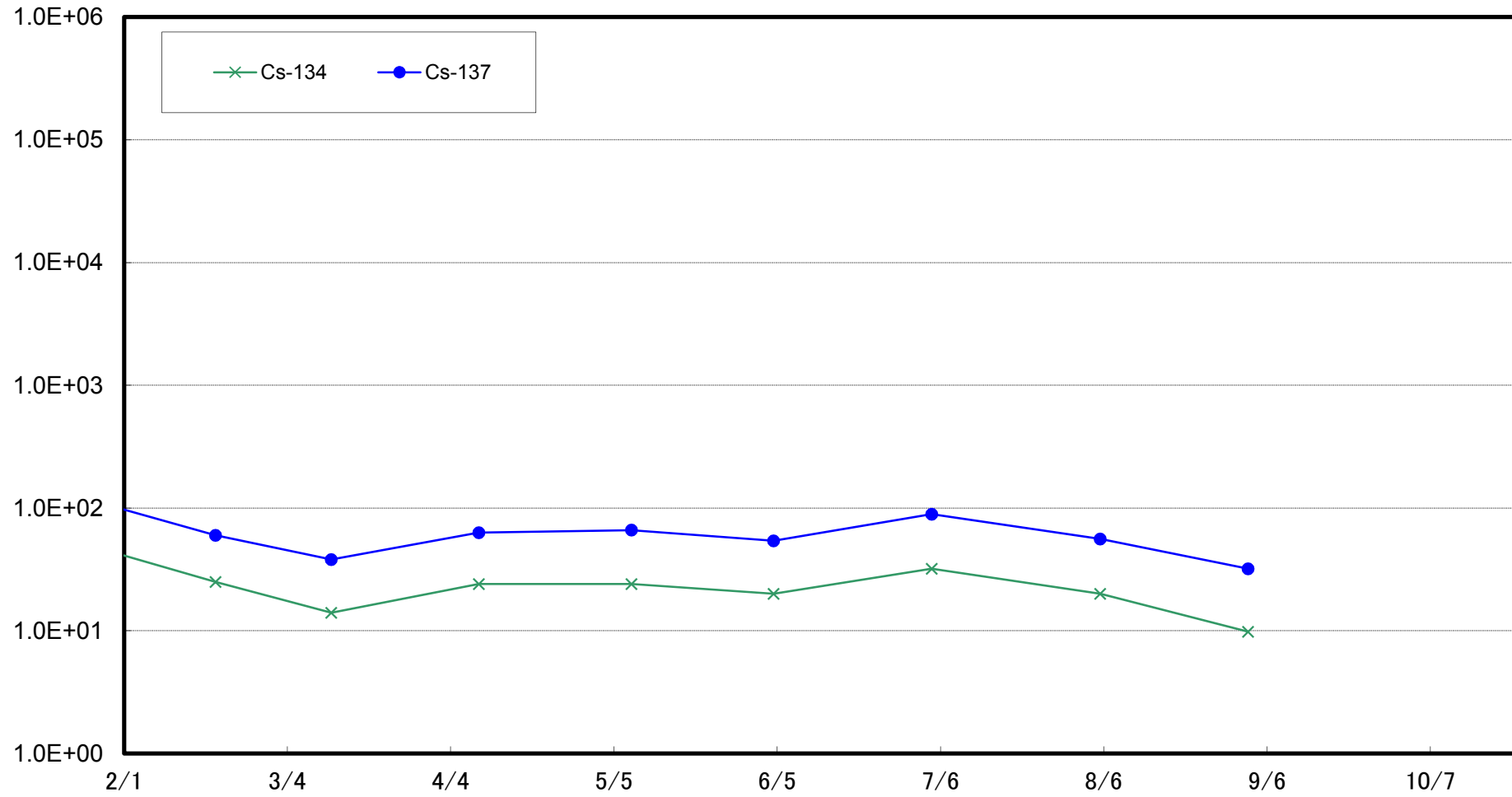


Radioactivity Density of the Marine Soil at 15km Offshore of Kumagawa, Okuma Town (T-11)  
(Bq/kg, dry soil)

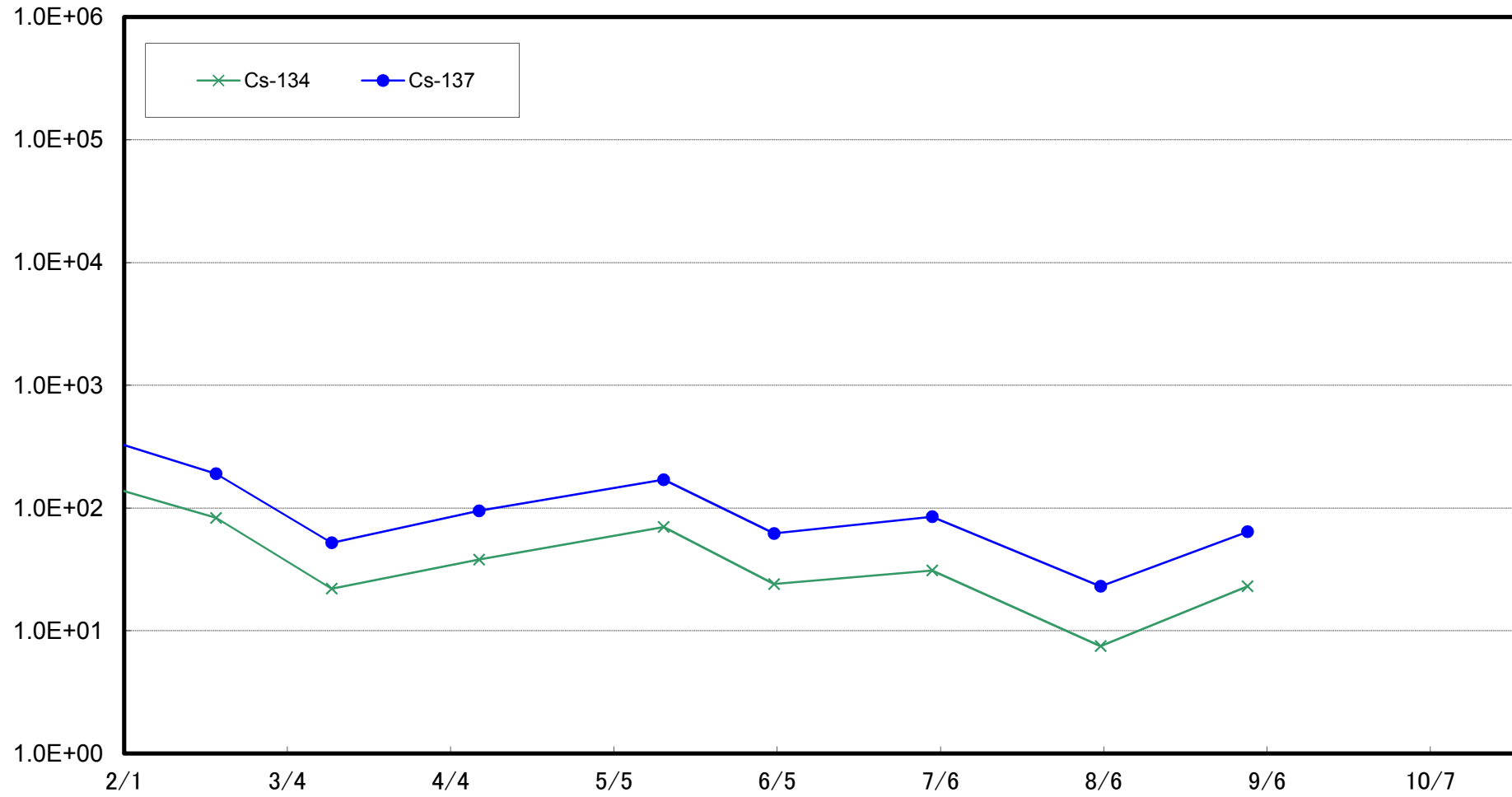




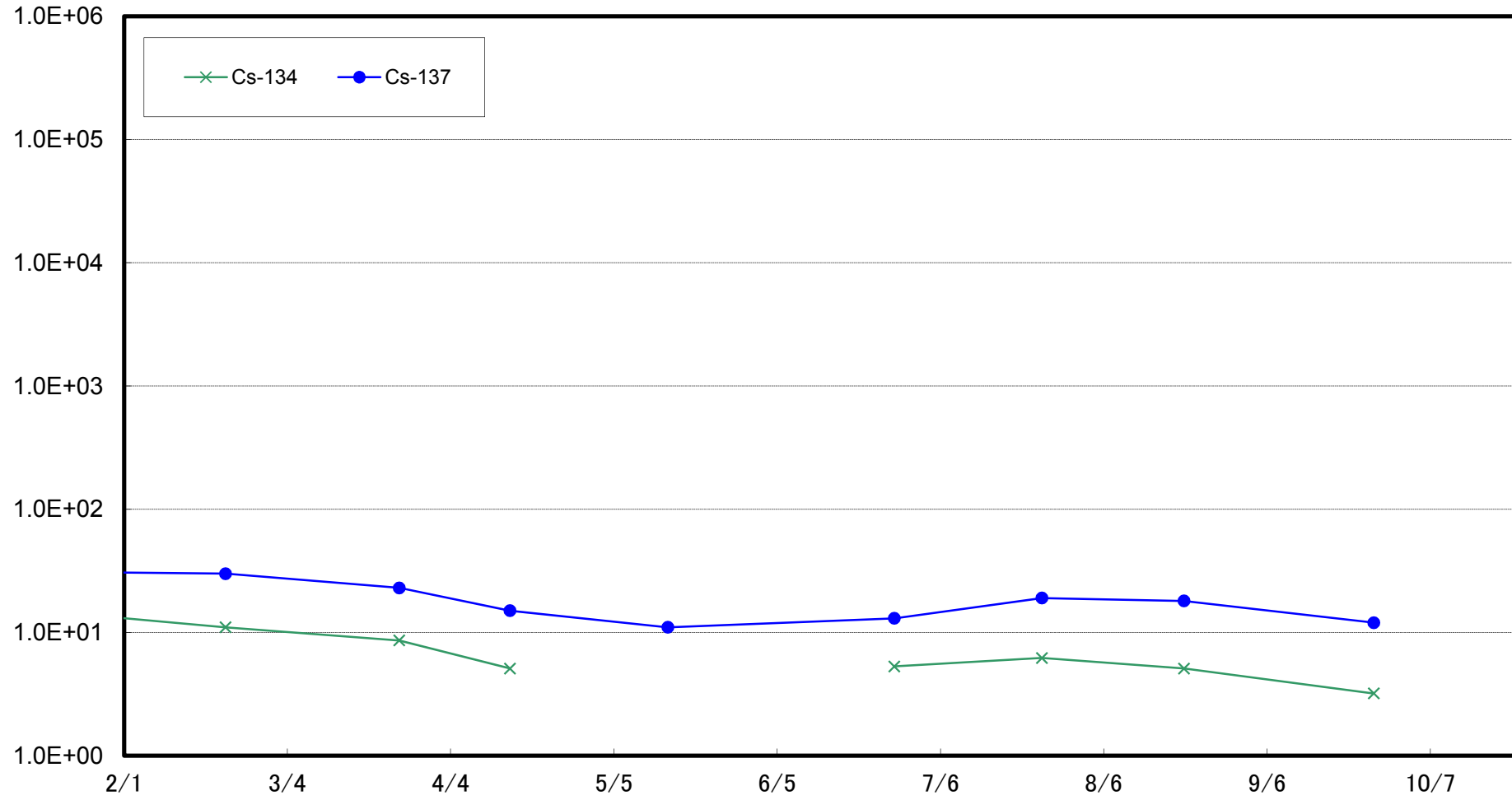
Radioactivity Density of the Marine Soil at 20km Offshore of Kumagawa, Okuma Town (T-12)  
(Bq/kg, dry soil)



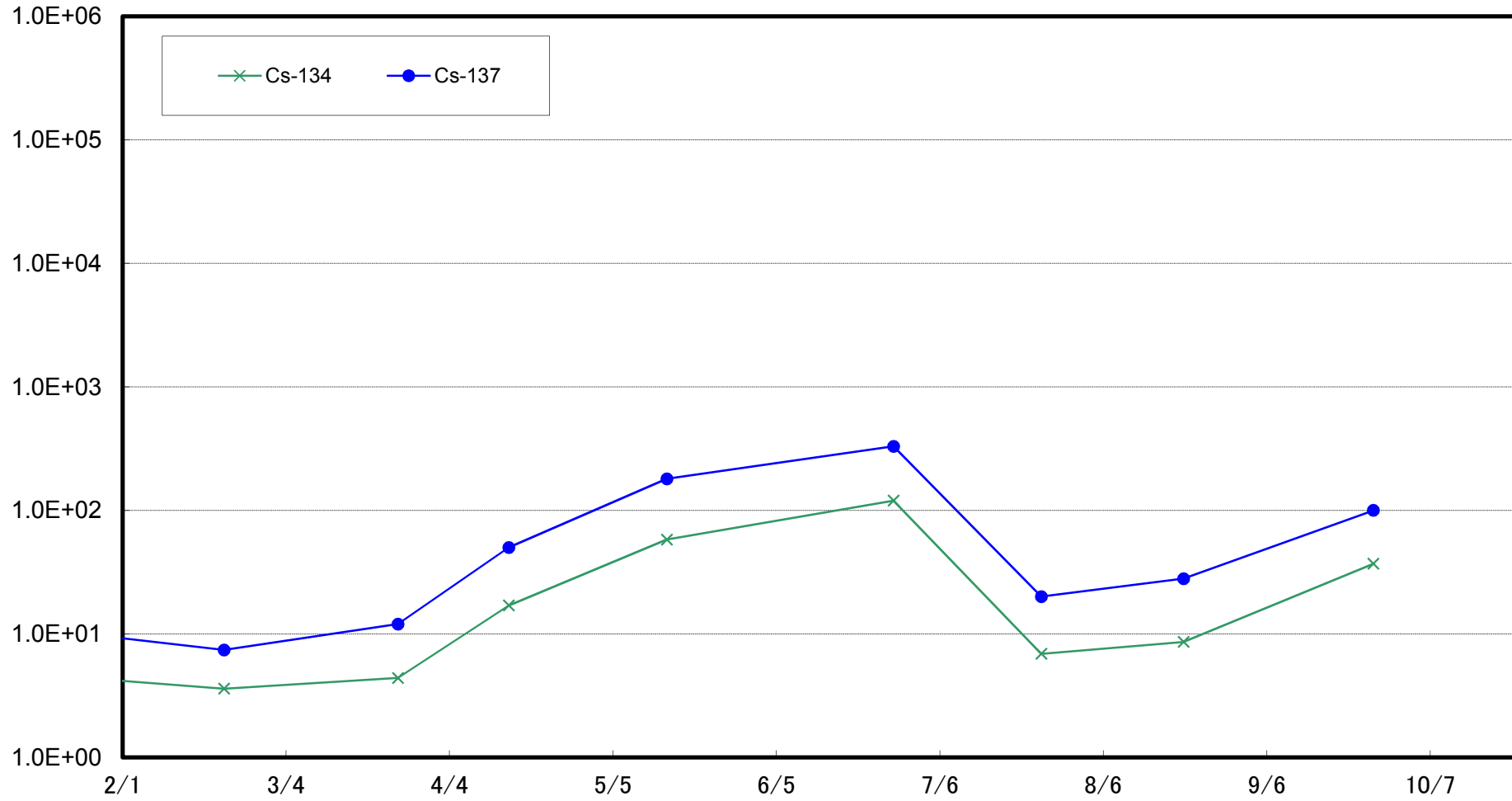
Radioactivity Density of the Marine Soil at 1km Offshore of Yamadahama, Naraha Town (T-13) (Bq/kg, dry soil)



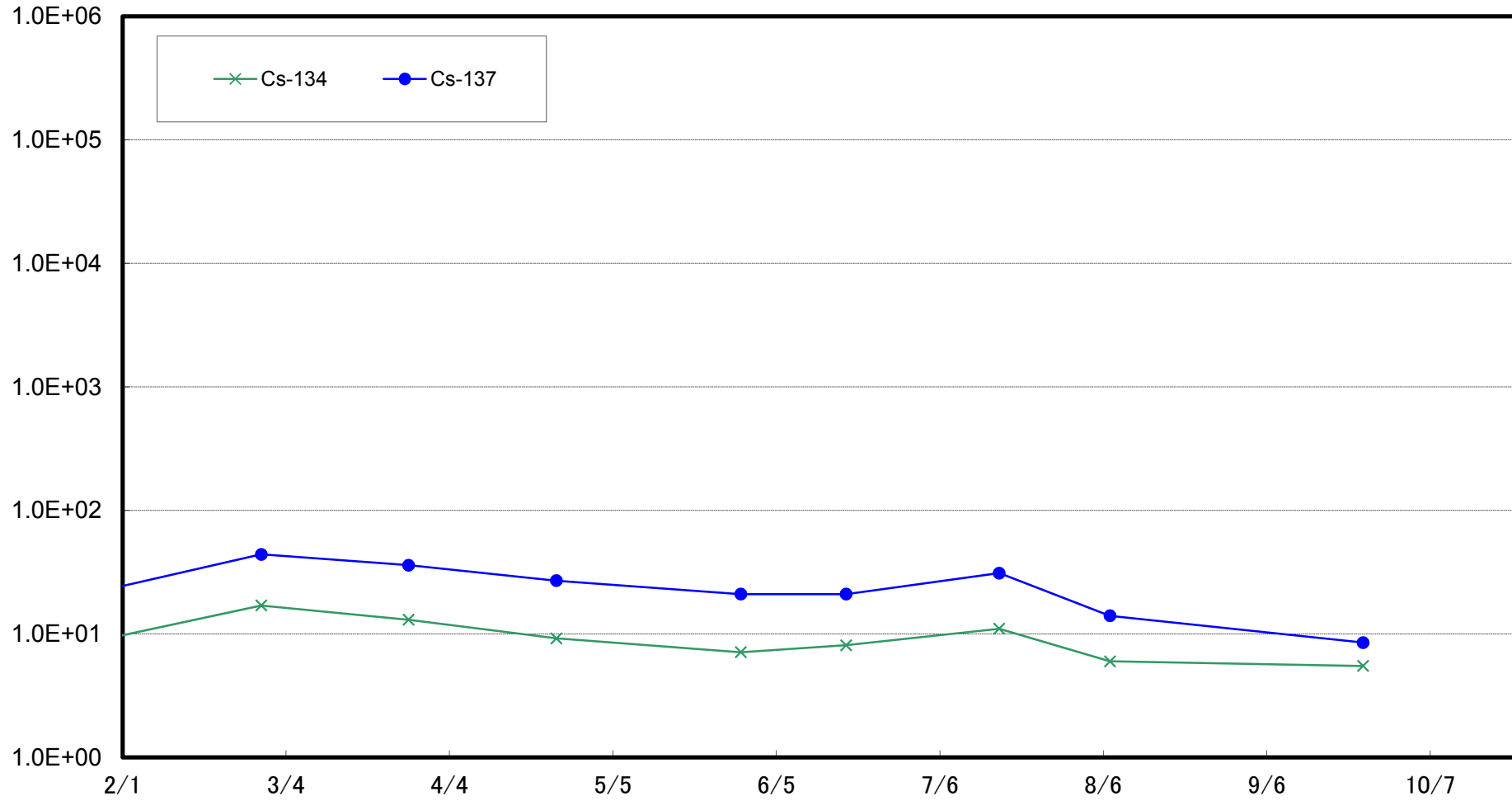
Radioactivity Density of the Marine Soil at Around 1km Offshore of Ota River (T-S1)  
(Bq/kg, dry soil)



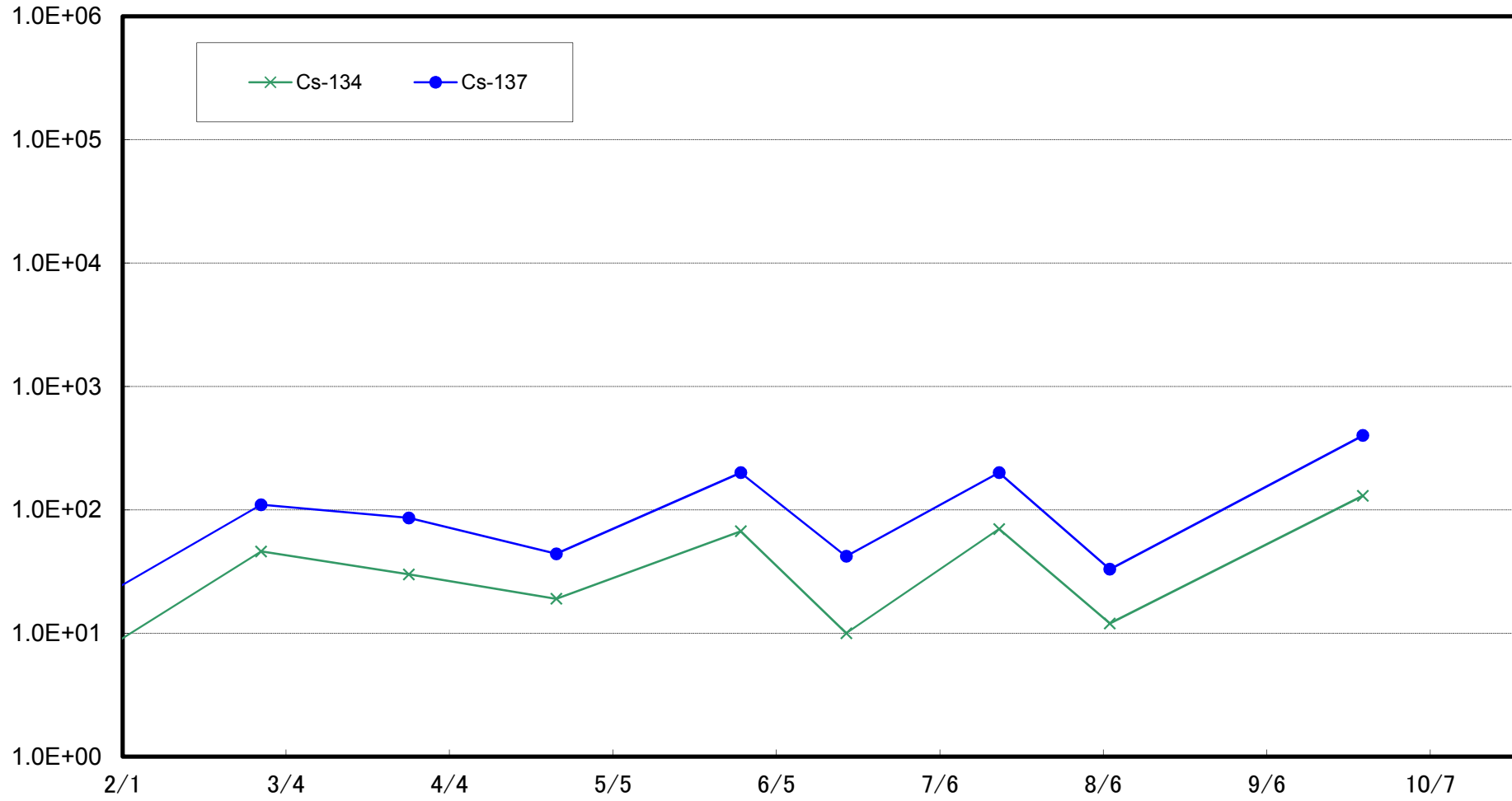
Radioactivity Density of the Marine Soil at Around 3km Offshore of Odaka Ward (T-S2)  
(Bq/kg, dry soil)



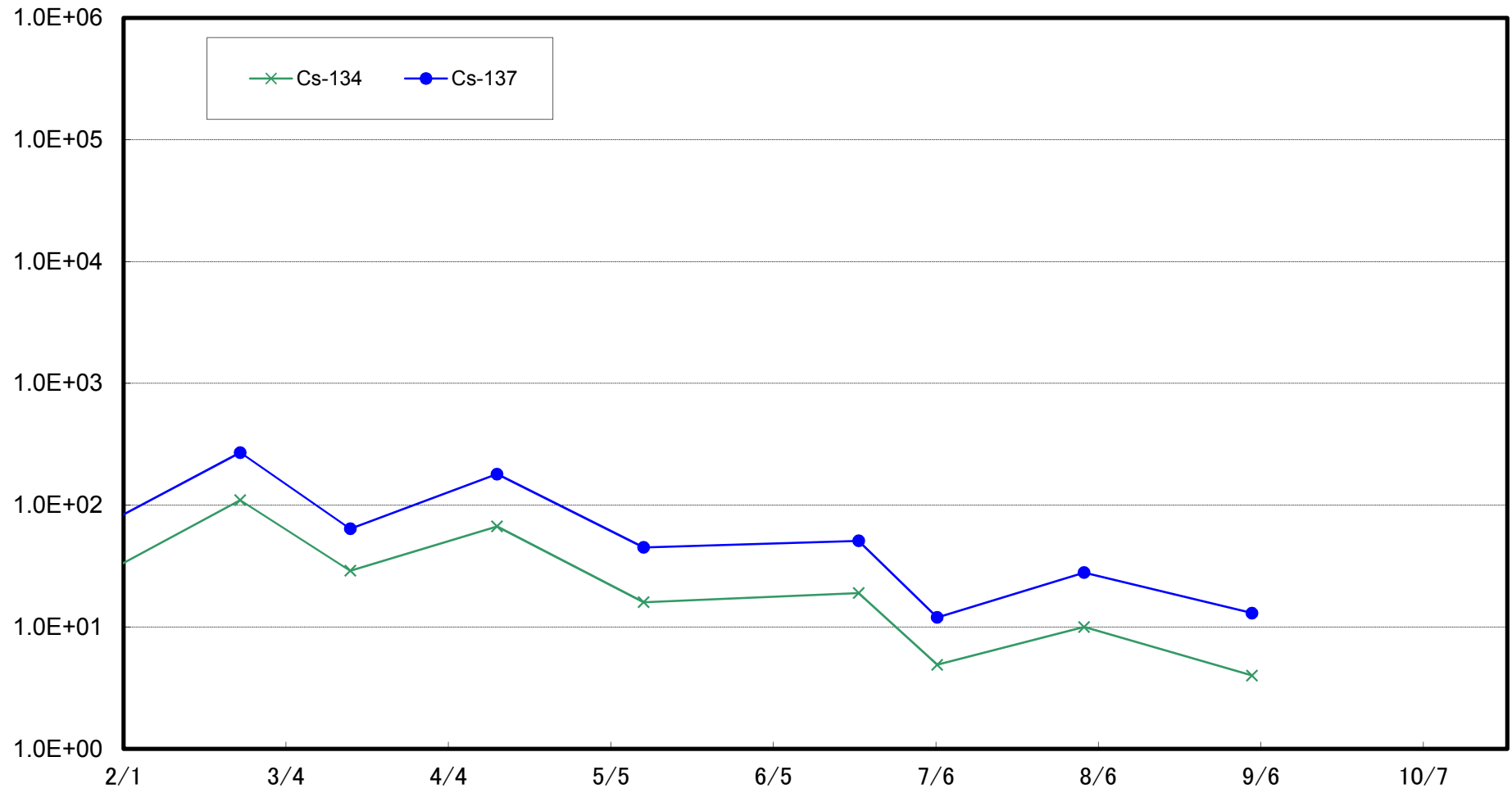
Radioactivity Density of the Marine Soil at Around 3km Offshore of Ukedo River (T-S3)  
(Bq/kg, dry soil)



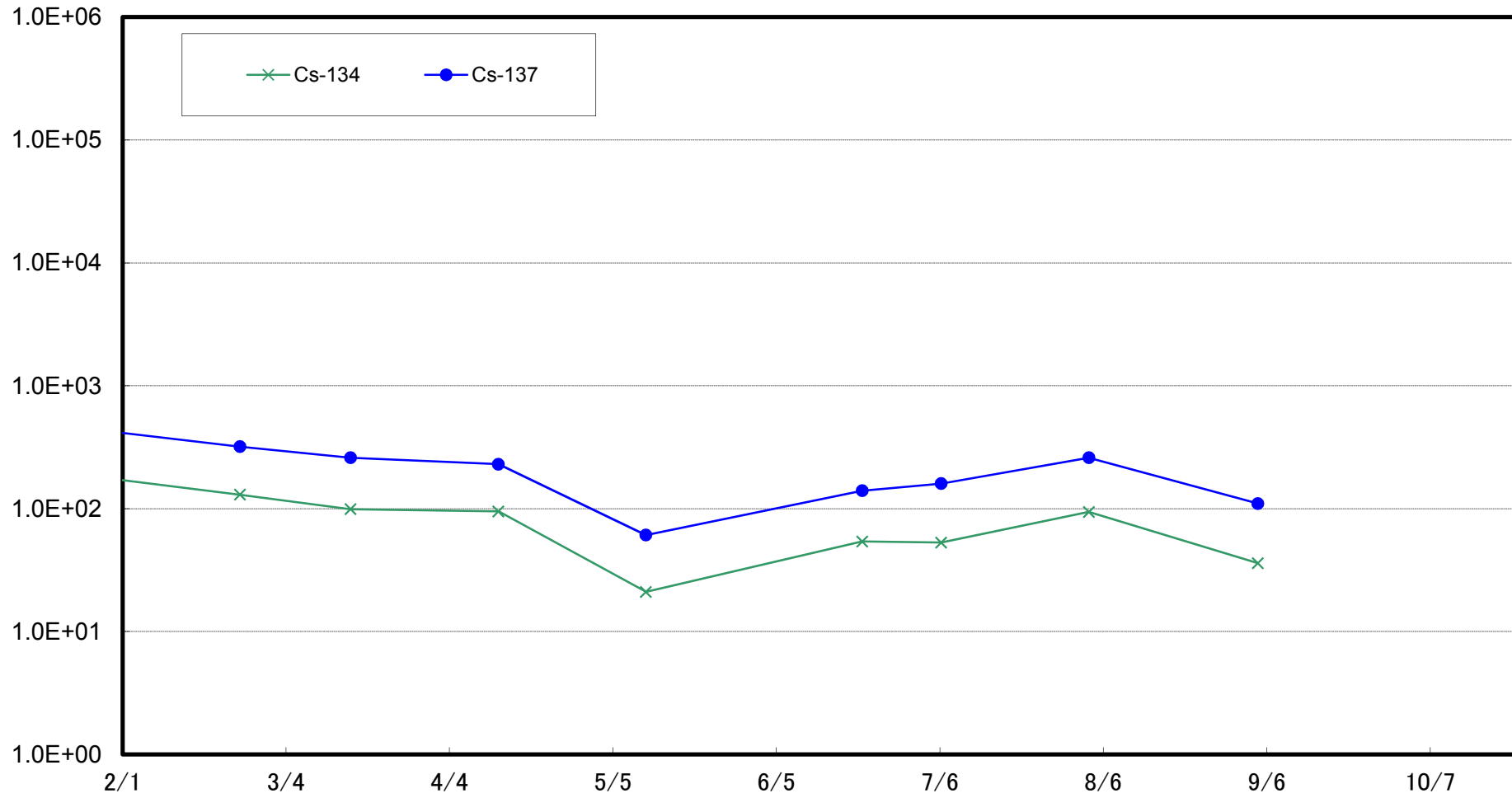
Radioactivity Density of the Marine Soil at Around 3km Offshore of Fukushima Daiichi NPS (T-S4)  
(Bq/kg, dry soil)



Radioactivity Density of the Marine Soil Around 2km Offshore of Kido River (T-S5) (Bq/kg, dry Soil)

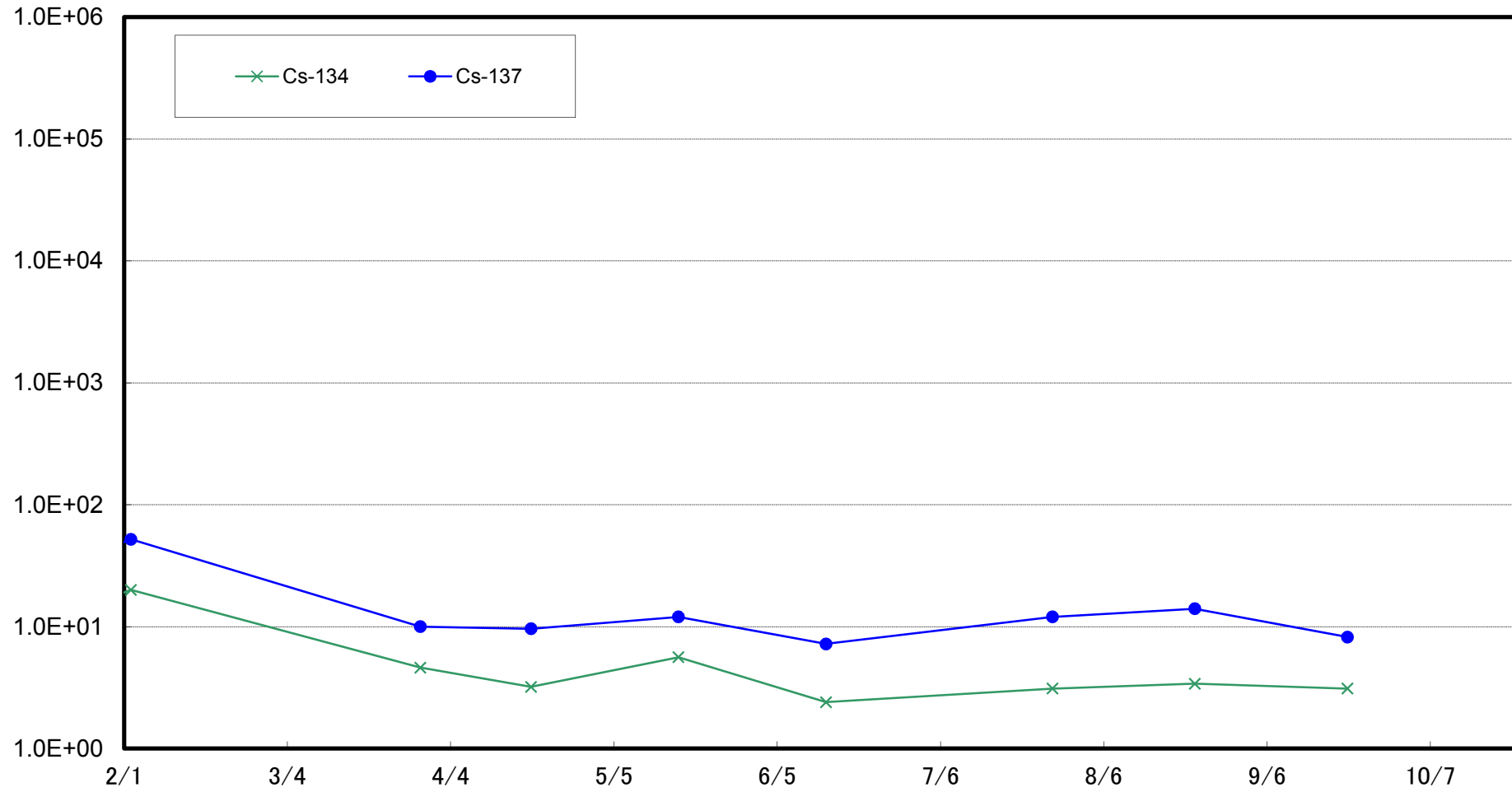


Radioactivity Density of the Marine Soil at Around 2km Offshore of Fukushima Daini NPS (T-S7)  
(Bq/kg, dry Soil)

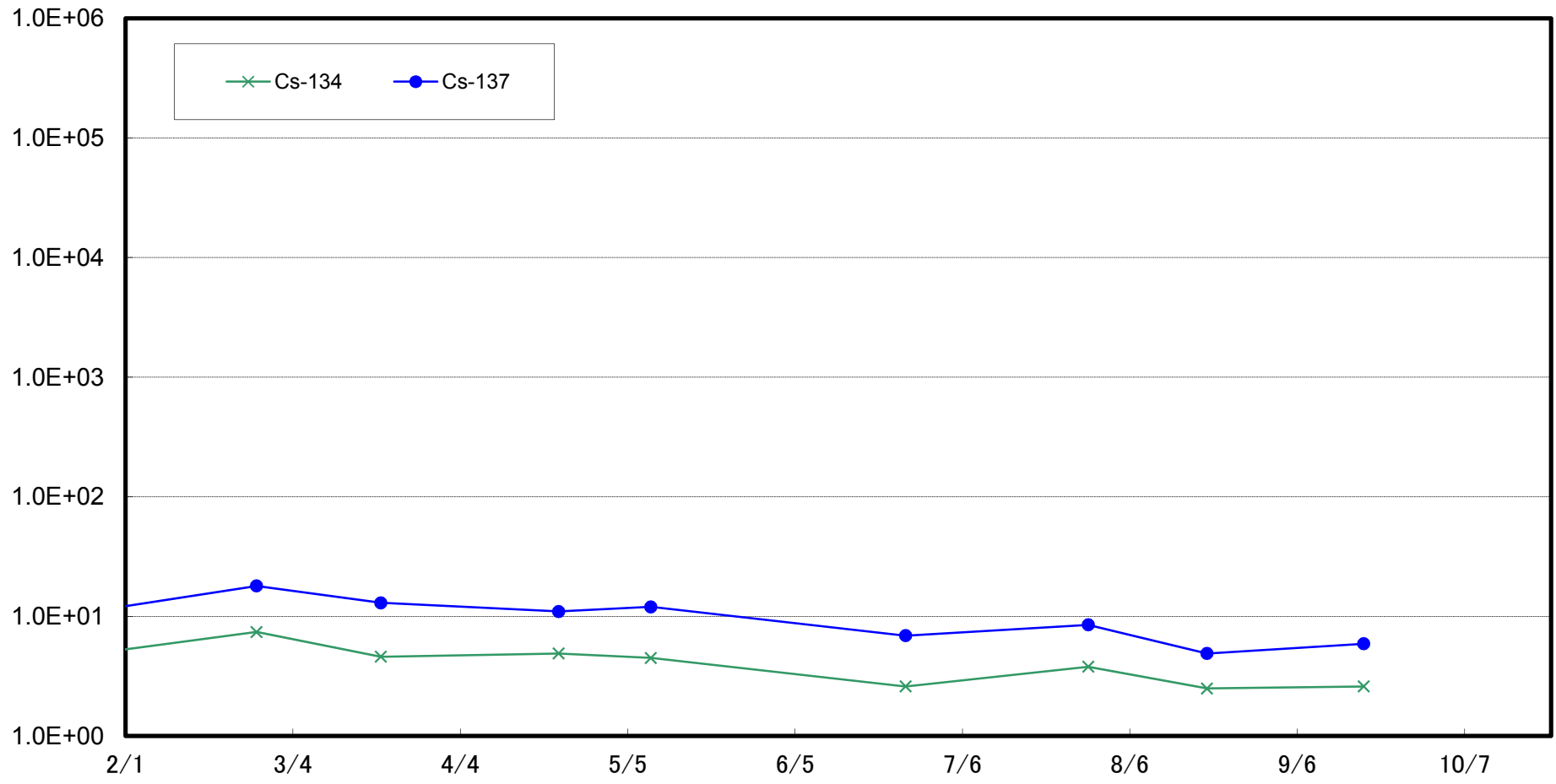




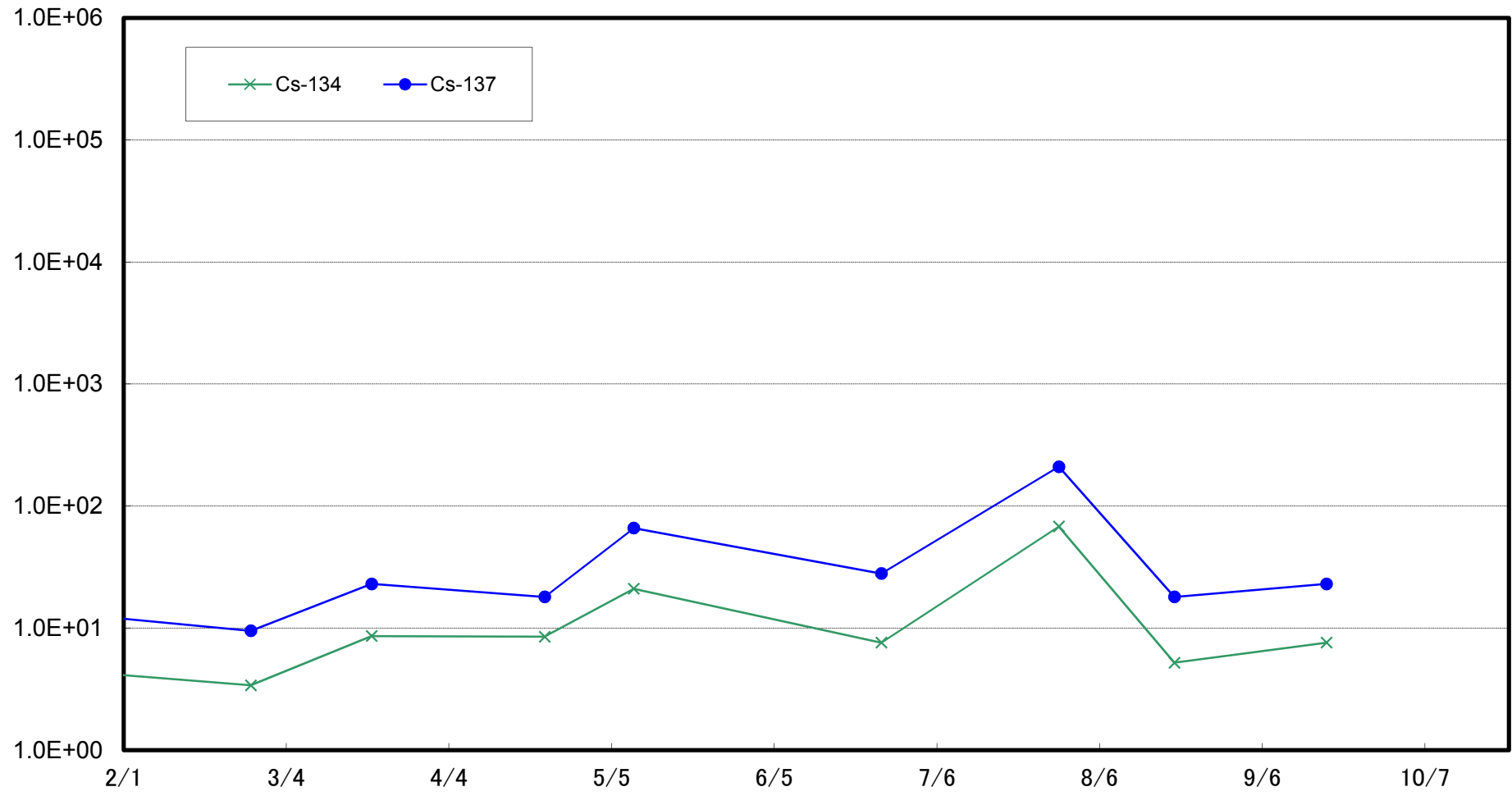
Radioactivity Density of the Marine Soil at Around 4km Offshore of Kumagawa (T-S8) (Bq/kg, dry Soil)



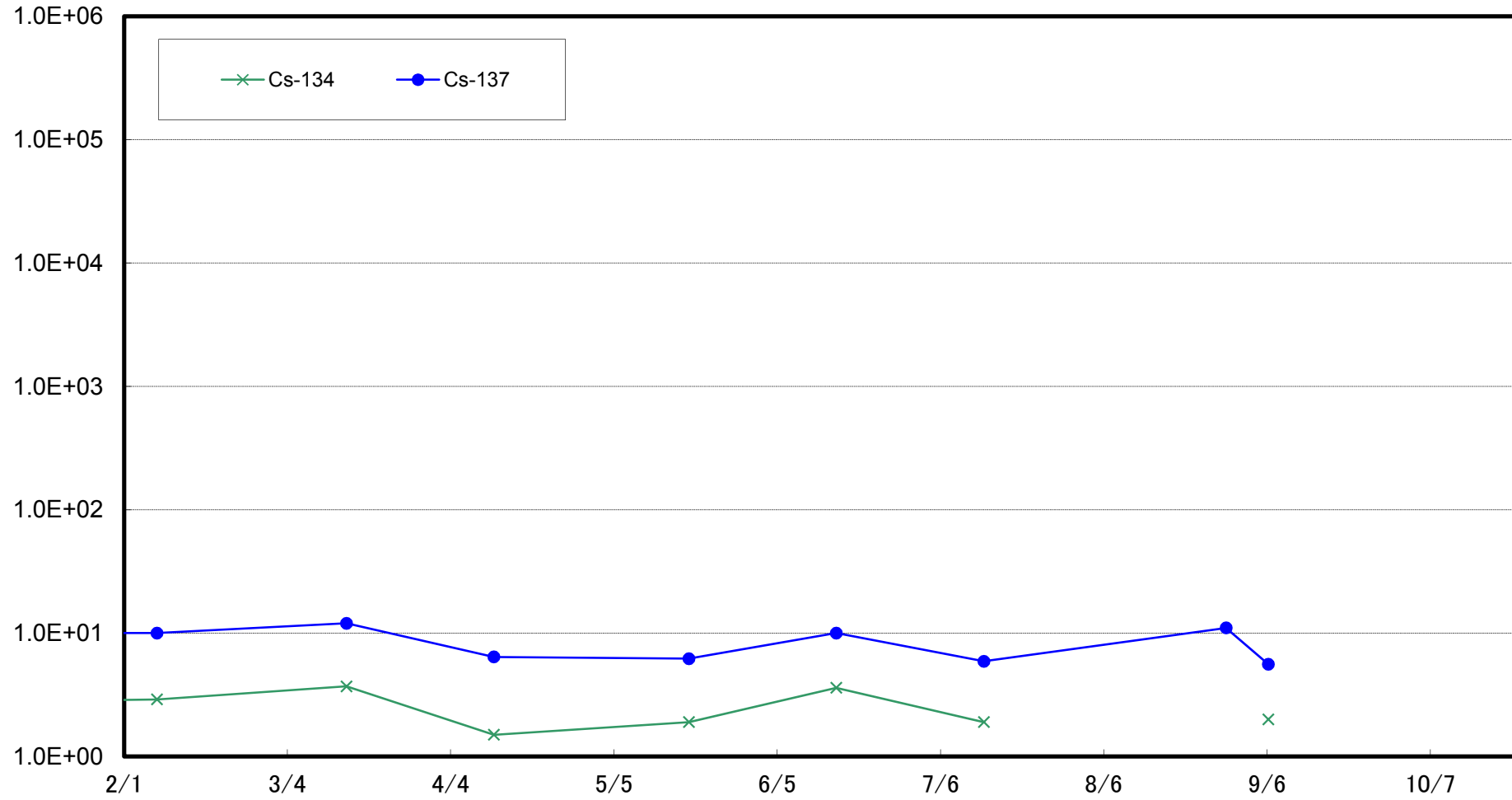
Radioactivity Density of the Marine Soil at Around 15km Offshore of Odaka Ward (T-B1)  
(Bq/kg, dry Soil)



Radioactivity Density of the Marine Soil at Around 18km Offshore of Ukedo River (T-B2) (Bq/kg, dry Soil)



Radioactivity Density of the Marine Soil Around 10km Offshore of Fukushima Daiichi NPS (T-B3)  
(Bq/kg, dry Soil)



Radioactivity Density of the Marine Soil Around 10km Offshore of Fukushima Daini NPS (T-B4)  
(Bq/kg, dry Soil)

