Reference

Nuclides Analysis Result of the Sub-drain of Fukushima Daiichi NPS

(Data summarized on March 21)

Place of Sampling	Fukushima Daiichi NPS Unit 1 Sub-drain	Fukushima Daiichi NPS Unit 2 Sub-drain	Fukushima Daiichi NPS Unit 3 Sub-drain	Fukushima Daiichi NPS Unit 4 Sub-drain	Fukushima Daiichi NPS Unit 5 Sub-drain	Fukushima Daiichi NPS Unit 6 Sub-drain	Deep Well at Fukushima Daiichi NPS
Time of Sampling	Mar 20, 2013 8:48 AM	Mar 20, 2013 8:45 AM	Mar 20, 2013 8:39 AM	Mar 20, 2013 8:36 AM	N/A	N/A	Mar 20, 2013 7:55 AM
Detected Nuclides (Half-life)	Density of Sample (Bq/cm^3)						
I-131 (Approx. 8 days)	ND	ND	ND	ND	-	-	ND
Cs-134 (Approx. 2 years)	1.5E-01	6.6E-01	ND	ND	-	-	ND
Cs-137 (Approx. 30 years)	3.0E-01	1.3E+00	ND	ND	-	-	ND

* O.OE－O is the same as O.O x 10^{-O}
* Data of other nuclides is under evaluation.
* "ND" indicates that the measurement result is below the detection limit.
I-131: Approx. 2E-2Bq/cm3, Cs-134: Approx.2E-2Bq/cm3, Cs-137: Approx.2E-2Bq/cm3) 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 Result of Radioactive Materials of Sub-Drain

Place of Sampling	Unit 2 Sub-Drain at Fukushima Daiichi NPS	Unit 5 Sub-Drain at Fukushima Daiichi NPS
Date of Sampling	Jul 9, 2012	Jul 6, 2012
Detected Nuclides (Half-life)	Density of Sample (Bq/cm^3)	
I-131 (Approx. 8 days)	ND	ND
Cs-134 (Approx. 2 years)	8.1E-01	ND
Cs-137 (Approx. 30 years)	1.4E+00	ND
H-3 (approx. 12yrs)	1.5E-01	6.6E-02
All α	ND	ND
All β	2.1E+00	ND
Sr-89 (Approx. 51 days)	ND	ND
Sr-90 (Approx. 29 years)	1.9E-02	3.5E-05

* O.OE±O is the same as O.O x $10^{\pm O}$
* Nuclide analysis results of I-131, Cs-134, Cs-137 were announced on July 7 and 10. H-3, All α and All βwere announced on October 3.
* When the measurement value is below the detection limit, "ND" is marked. The detection limits are as follows.
I-131: Approx. 3E-2Bq/cm^3, Cs-134: Approx. 2E-2Bq/cm^3, Cs-137: Approx. 2E-2Bq/cm^3,
All α: Approx. 3E-3Bq/cm^3, All β: 9E-3Bq/cm^3, Sr-89: Approx. 3E-4Bq/cm^3
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 were detected supposedly as a result of this accident.

Nuclides Analysis Result of Radioactive Materials of Sub-Drain

Place of Sampling	Unit 2 Sub-Drain at Fukushima Daiichi NPS	Unit 6 Sub-Drain at Fukushima Daiichi NPS
Date of Sampling	Aug 13, 2012	Aug 10, 2012
Detected Nuclides (Half-life)	Density of Sample (Bq/cm^3)	
I-131 (Approx. 8 days)	ND	ND
Cs-134 (Approx. 2 years)	4.2E-01	ND
Cs-137 (Approx. 30 years)	7.4E-01	ND
H-3 (approx. 12yrs)	4.5E-01	2.0E-01
All α	ND	ND
All β	1.3E+00	ND
Sr-89 (Approx. 51 days)	ND	ND
Sr-90 (Approx. 29 years)	4.9E-02	6.6E-05

* O.OE±O is the same as O.O x $10^{\pm O}$
* Nuclide analysis results of I-131, Cs-134, Cs-137 were announced on August 11 and 14. H-3, All α and All β were announced on October 3.
* When the measurement value is below the detection limit, "ND" is marked. The detection limits are as follows.
I-131: Approx. 2E-2Bq/cm^3, Cs-134: Approx. 2E-2Bq/cm^3, Cs-137: Approx. 2E-2Bq/cm^3,
All α: Approx. 3E-3Bq/cm^3, All β: 9E-3Bq/cm^3, Sr-89: Approx. 1E-3Bq/cm^3
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 were detected supposedly as a result of this accident.

Result of Pu Nuclide Analysis of Sub-Drain at Fukushima Daiichi Nuclear Power Station

1. Measurement Result:

(Unit: Bq/cm^3)

Place of Sampling	Date	Pu-238	Pu-239+Pu-240
Unit 2 Sub-Drain	Sep 10, 2012	N.D. [$<2.1\times10^{-5}$]	N.D. [$<1.8\times10^{-5}$]
Deep Well	Sep 10, 2012	N.D. [$<1.7\times10^{-5}$]	N.D. [$<1.4\times10^{-5}$]

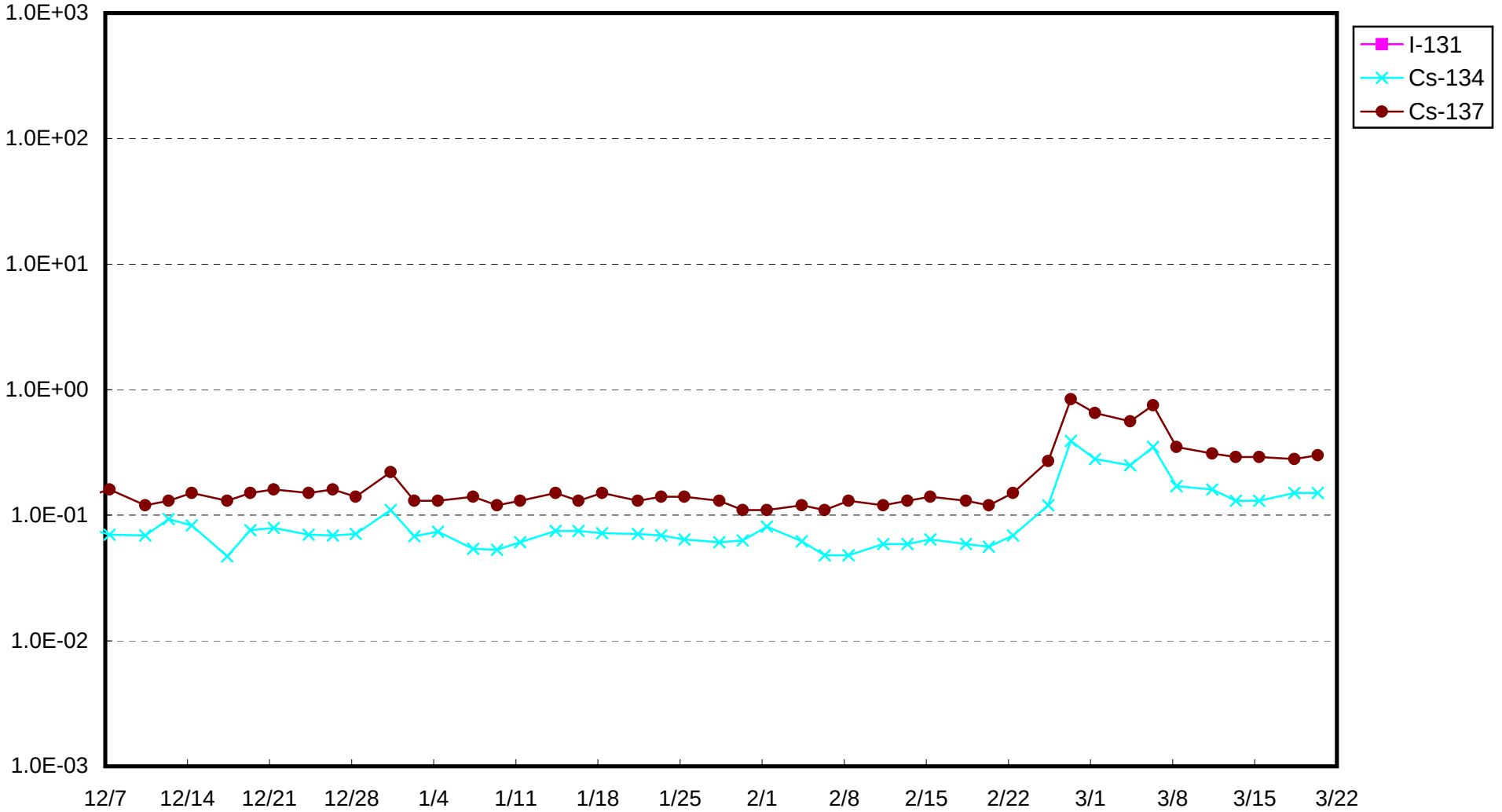
[ ] shows below the detection limit.

2. Analytical Institution
KAKEN Inc.

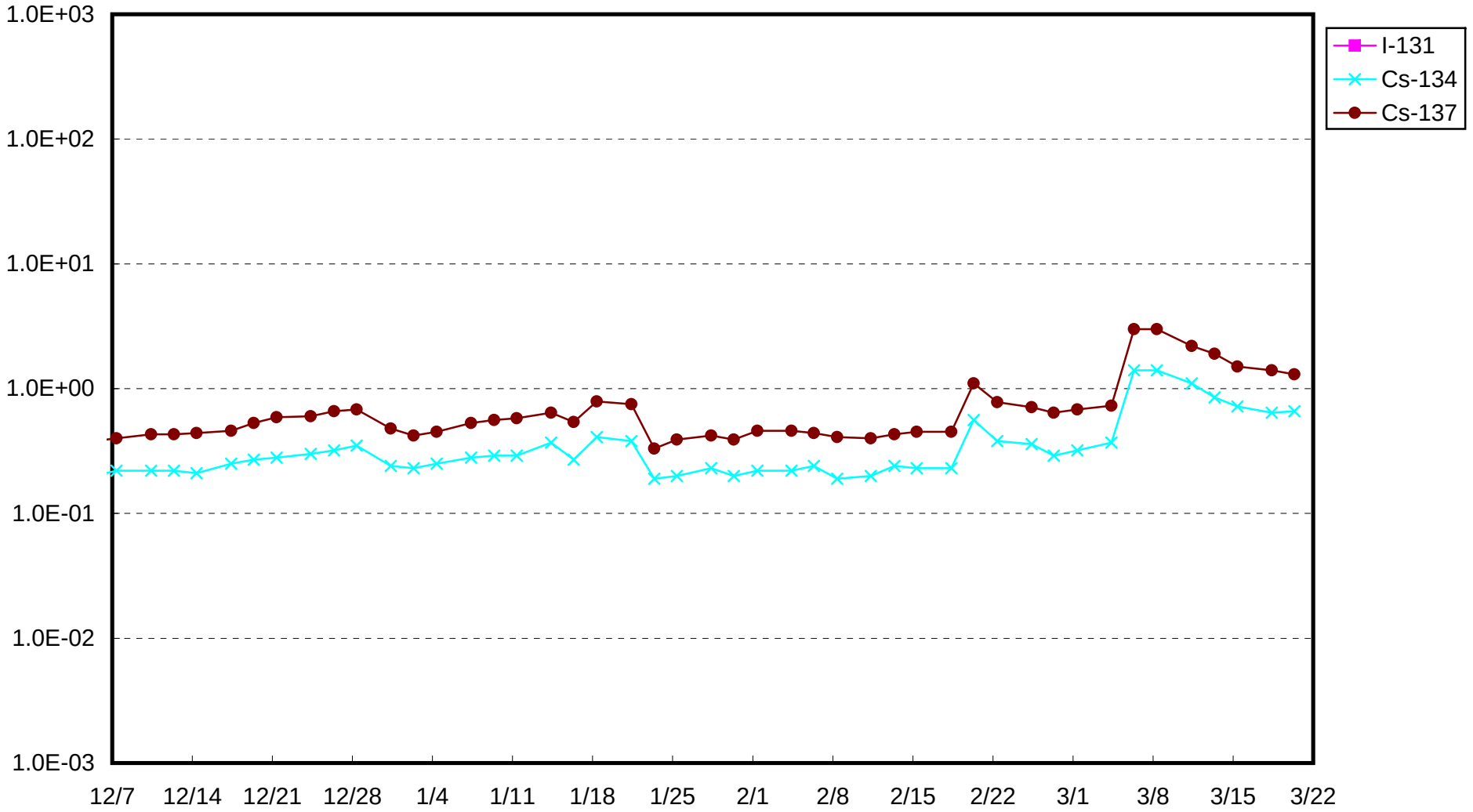
3. Evaluation:
Pu-238 and Pu-239+Pu-240 were not detected in the sample collected this time.

End

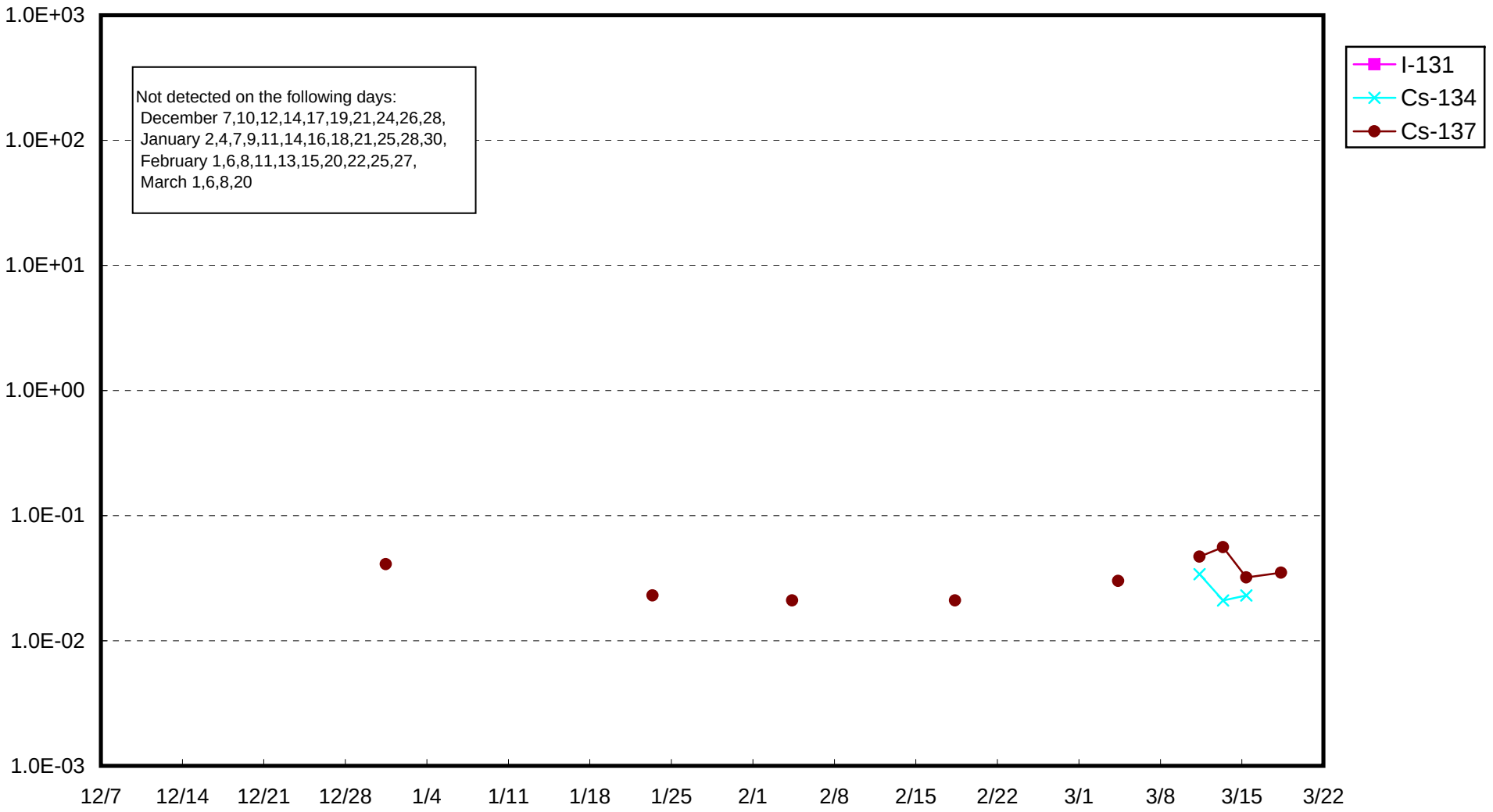
Fukushima Daiichi Nuclear Power Station: Radioactivity Density of Unit 1 Sub-drain (Bq/cm^3)



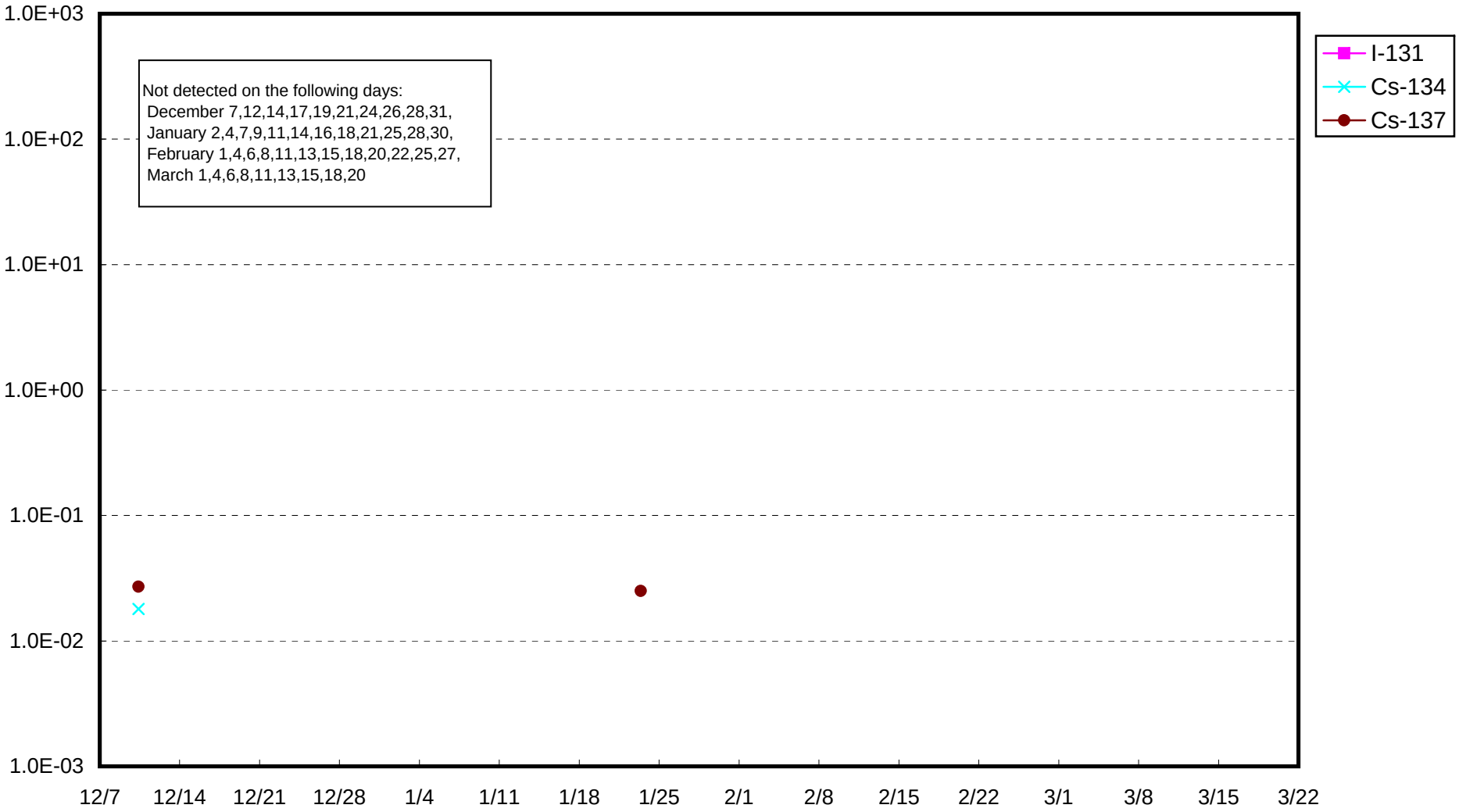
Fukushima Daiichi Nuclear Power Station: Radioactivity Density of Unit 2 Sub-drain (Bq/cm^3)



Fukushima Daiichi Nuclear Power Station: Radioactivity Density of Unit 3 Sub-drain (Bq/cm^3)



Fukushima Daiichi Nuclear Power Station: Radioactivity Density of Unit 4 Sub-drain (Bq/cm^3)



Fukushima Daiichi Nuclear Power Station: Radioactivity Density at the Deep Well at the Site (Bq/cm^3)