Reference

Nuclides Analysis Result of the Radioactive Materials in the Seawater < Coast, Fukushima Daiichi Nuclear Power Station, Within 20km Radius >

(Data summarized on February 4)

Place of Sampling		(Approx. 5.		2 Density Limit Specified by the Reactor Regulation (Bq/L)			
Time of Sampling	Dec 24, 9:15 /		2014 AM	(The density limit in the water outside the surrounding monitored areas is provided in			
Detected Nuclides (Half-life)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	section 6 of Appendix 2.)	
Cs-134 (Approx. 2 years)	0.095	0.00	0.079	0.00	0.054	0.00	60
Cs-137 (Approx. 30 years)	0.21	0.00	0.22	0.00	0.12	0.00	90

* The density specified by the Reactor Regulation is converted from Bq/cm³ to Bq/L.

* In the case of more than 2 nuclides, the sum of scaling factors to density limits is compared to 1.

* Analysis results by detail analysis (Phosphomolybdic acid ammonium adsorption sampling method) are noted.

* Analyzed by Tokyo Power Technology Ltd.

Reference

Nuclides Analysis Result of the Radioactive Materials in the Seawater < Coast, Fukushima Daiichi Nuclear Power Station >

(Data summarized on February 4)

Place of Sampling	North of Unit 5-6 Discharge Daiichi N (Approx. 30m North of Unit 5	IPS	Around South Discharge C Daiichi N (Appox. 1.3km South of Unit	NPS .	② Density Limit Specified by the Reactor Regulation (Bq/L)		
Time of Sampling	Feb 3, 20 6:45 A		Feb 3, 2 5:50 A	(The density limit in the water outside the surrounding monitored areas is provided in			
Detected Nuclides (Half-life)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	section 6 of Appendix 2.)		
I-131 (Approx. 8 days)	ND	-	ND	-	40		
Cs-134 (Approx. 2 years)	ND	-	ND	-	60		
Cs-137 (Approx. 30 years)	ND	-	ND	-	90		

* The density specified by the Reactor Regulation is converted from Bq/cm³ to Bq/L.

* Data of other nuclides is under evaluation.

* In the case of more than 2 nuclides, the sum of scaling factors to density limits is compared to 1.

* "ND" indicates that the measurement result is below the detection limit.

I-131: Approx. 0.76Bq/L, Cs-134: Approx. 0.72Bq/L, Cs-137: Approx. 0.59Bq/L

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

Reference

Nuclides Analysis Result of the Radioactive Materials in the Seawater < Coast, Fukushima Daiichi Nuclear Power Station, Remeasurement >

(Data summarized on February 4)

Place of Sampling			scharge Chanr North of Unit {						charge Channe South of Unit				② Density Limit Specified by the Reactor Regulation (Bq/L)
Time of Sampling		Dec 23, 2013 Dec 30, 2013 Jan 6, 2014 7:15 AM 6:45 AM 6:31 AM						Dec 23, 2013 Dec 30, 2013 6:00 AM 6:00 AM			Jan 6, 2 5:36 A		(The density limit in the water outside the surrounding monitored
Detected Nuclides (Half-life)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	ng ①Density of Scaling ①Density of Scaling ①Density of Scaling ③Density of Scaling ③Density of Scaling ③Density of Scaling Sample Factor				areas is provided in section 6 of Appendix 2.)		
Cs-134 (Approx. 2 years)	Cs-134 0.30 0.01 0.34 0.0			0.01	1.0	0.02	0.42	0.01	0.18	0.00	0.13	0.00	60
Cs-137 (Approx. 30 years)			0.03	0.96	0.01	0.39	0.00	0.30	0.00	90			

* The density specified by the Reactor Regulation is converted from Bq/cm³ to Bq/L.

* In the case of more than 2 nuclides, the sum of scaling factors to density limits is compared to 1.

* Analysis results by detail analysis (Phosphomolybdic acid ammonium adsorption sampling method) are noted.

* Analyzed by: Tokyo Power Tecnology Ltd.

Nuclides Analysis Result of the Radioactive Materials in the Seawater < Coast, Fukushima Daini Nuclear Power Station >

(Data summarized on February 4)

Place of Sampling		(Around	id the North I I Unit 3-4 Dis Approx. 10kr	charge C	hannel)		(Appro	x. 11km S	the North Si South of Unit Approx. 23kr	1 & 2 Diso	charge Chan	nel)	② Density Limit Specified by the Reactor Regulation (Bq/L)
Time of Sampling		Dec 24, 2013 Dec 31, 2013 Jan 7, 201 3:20 PM 7:50 AM 10:00 AM					Dec 24, 7:20 /		Dec 31, 7:15 /		Jan 7, 2014 7:20 AM		(The density limit in the water outside the surrounding
Detected Nuclides (Half-life)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	ng ①Density Scaling or of Sample Factor		①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	monitored areas is provided in section 6 of Appendix 2.)
Cs-134 (Approx. 2 years)	-134 0.32 0.01 0.14 0.00		0.00	0.065	0.00	0.26	0.00	0.11	0.00	0.043	0.00	60	
Cs-137 (Approx. 30 years)	0.72 0.01 0.32 0.00 0.15		0.15	0.00	0.59	0.01	0.27	0.00	0.10	0.00	90		

* The density specified by the Reactor Regulation is converted from Bq/cm³ to Bq/L.

* Data of other nuclides is under evaluation.

* In the case of more than 2 nuclides, the sum of scaling factors to density limits is compared to 1.

* Analysis results by detail analysis (Phosphomolybdic acid ammonium adsorption sampling method) are noted. Analyzed by Tokyo Power Technology Ltd. Reference

Nuclides Analysis Result of Radioactive Materials in the Seawater <Offshore 1/4>

(Data summarized on February 4)

Place of Sampling (Place No.)	3km Off	*1 3km Offshore of Odaka Ward (T-14)				shore of C)daka Ward (T-	*1 14)	3km Off	shore of C	daka Ward (T-	*1 14)	② Density Limit Specified by the Reactor Regulation
	Upper Layer Lower Layer			ayer	Upper La	ayer	Lower Layer		Upper Layer		Lower Layer		(Bq/L)
Time of Sampling	Dec 17, 2 8:56 A		Dec 17, 2 8:56 A		Dec 23, 2 8:56 Al		3 Dec 23, 2013 Dec 29, 2013 8:56 AM 9:10 AM			Dec 29, 2 9:10 A	М	(The density limit in the water outside the surrounding monitored	
Detected Nuclides (Half-life)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Density of Scaling Sample Factor		Scaling Factor (①/②)	areas is provided in section 6 of Appendix 2.)
Cs-134 (Approx. 2 years)	0.0080	0.00	0.0095	0.00	0.016	0.00	0.027	0.00	0.013	0.00	0.025	0.00	60
Cs-137 (Approx. 30 years)	0.018	0.00	0.023	0.00	0.038	0.00	0.060	0.00	0.035	0.00	0.067	0.00	90

Place of Sampling (Place No.)	3km Offs	shore of U	kedo River (T-I	*2 D1)	3km Offs	shore of U	kedo River (T-I	*2 D1)	3km Offshore	of Fukush	ima Daiichi NP	*2 S (T-D5)	② Density Limit Specified by the Reactor Regulation
	Upper La	ayer	Lower La	ayer	Upper La	ayer	Lower Layer		Upper Layer		Lower Layer		(Bq/L)
Time of Sampling	Dec 23, 2 9:13 A		Dec 23, 2 9:13 Al		Dec 29, 2013 Dec 29, 2013 Dec 23, 2013 9:36 AM 9:36 AM 10:10 AM					Dec 23, 2 10:10 A		(The density limit in the water outside the surrounding monitored	
Detected Nuclides (Half-life)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	areas is provided in section 6 of Appendix 2.)
Cs-134 (Approx. 2 years)	0.029	0.00	0.022	0.00	0.011	0.00	0.0099	0.00	0.057	0.00	0.029	0.00	60
Cs-137 (Approx. 30 years)	0.063	0.00	0.051	0.00	0.029	0.00	0.025	0.00	0.13	0.00	0.068	0.00	90

* The density specified by the Reactor Regulation is converted from Bq/cm³ to Bq/L.

* In the case of more than 2 nuclides, the sum of scaling factors to density limits is compared to 1.

* Analysis results by detail analysis (Phosphomolybdic acid ammonium adsorption sampling method) are noted.

* Analyzed by: *1 THE GENERAL ENVIRONMENTAL TECHNOS Co., LTD., *2 Tokyo Power Technology Ltd.

Nuclides Analysis Result of Radioactive Materials in the Seawater <Offshore 2/4>

(Data summarized on February 4)

Place of Sampling (Place No.)	3km Offshore	of Fukush	iima Daiichi NP	*2 S (T-D5)	3km Offshore	e of Fukus	hima Daini NPS	*2 6 (T-D9)	3km Offshore	e of Fukus	hima Daini NPና	*2 6 (T-D9)	② Density Limit Specified by the Reactor Regulation
	Upper Layer Lower Layer				Upper La	ayer	Lower Layer		Upper Layer		Lower Layer		(Bq/L)
Time of Sampling	Dec 29, 2 9:22 A		,		Dec 23, 2013 9:49 AM		Dec 23, 2013 9:49 AM		Dec 29, 2013 8:49 AM		Dec 29, 2013 8:49 AM		(The density limit in the water outside the surrounding monitored
Detected Nuclides (Half-life)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	areas is provided in section 6 of Appendix 2.)										
Cs-134 (Approx. 2 years)	0.016	0.00 0.014 0.0		0.00	0.14	0.00	0.041	0.00	0.017	0.00	0.015	0.00	60
Cs-137 (Approx. 30 years)	0.038	38 0.00 0.030 0.00		0.00	0.30	0.00	0.098	0.00	0.035	0.00	0.031	0.00	90

Place of Sampling (Place No.)	15km Offshor Upper La		shima Daiichi N Lower La	. ,	15km Offshor Upper La		shima Daiichi N Lower La	()	3km Offsh Upper La		asawa Shore (T Lower La	,	② Density Limit Specified by the Reactor Regulation (Bq/L)
Time of Sampling	Dec 23-2	2013	Dec 23, 2 8:53 A	2013	The 5th weel *1 (Not sa	k of Dec	The 5th week of Dec *1 (Not sampled)		Dec 23, 2013 10:31 AM		Dec 23, 2013 10:31 AM		(The density limit in the water outside the surrounding monitored
Detected Nuclides (Half-life)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	lling ①Density of Scaling ①Density of Scaling Sample Factor Sample Factor		Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	areas is provided in section 6 of Appendix 2.)	
Cs-134 (Approx. 2 years)	0.0013	0.00	0.0022 0.00		-	-	-	-	0.20	0.00	0.039	0.00	60
Cs-137 (Approx. 30 years)	0.0028	0.00	0.0065	0.00	-	-	-	-	0.45	0.01	0.086	0.00	90

* The density specified by the Reactor Regulation is converted from Bq/cm³ to Bq/L.

* In the case of more than 2 nuclides, the sum of scaling factors to density limits is compared to 1.

* Analysis results by detail analysis (Phosphomolybdic acid ammonium adsorption sampling method) are noted.

* Analyzed by: *1 THE GENERAL ENVIRONMENTAL TECHNOS Co., LTD., *2 Tokyo Power Technology Ltd.

*1 The sampling could not be performed due to the bad weather.

Nuclides Analysis Result of Radioactive Materials in the Seawater <Offshore 3/4>

(Data summarized on February 4)

Place of Sampling (Place No.)	3km Offsi	3km Offshore of Iwasawa Shore (T-11) Upper Layer Lower Layer					nahama Port (T-	,			ımanouchi (T-M	,	 ② Density Limit Specified by the Reactor Regulation
	Upper La	ayer	Lower La	iyer	Upper La	iyer	Lower Layer		Upper Layer		Lower La	ayer	(Bq/L)
Time of Sampling	Dec 29, 2 8:01 A		Dec 29, 2 8:01 Al		Dec 28, 2 6:04 Al	18, 2013 Dec 28, 2013 Dec 29, 2013			Dec 29, 2 6:35 A		(The density limit in the water outside the surrounding monitored		
Detected Nuclides (Half-life)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	①Density of Scaling Factor		Scaling Factor (①/②)	areas is provided in section 6 of Appendix 2.)
Cs-134 (Approx. 2 years)	0.039			0.00	0.031	0.00	0.031	0.00	0.0074	0.00	0.0087	0.00	60
Cs-137 (Approx. 30 years)	0.093	0.00	0.070	0.00	0.072	0.00	0.080	0.00	0.020	0.00	0.025	0.00	90

Place of Sampling (Place No.)	Around 1ki		e of Ota River (⁻ Lower La	,	Around 3km Upper La		of Odaka Ward Lower La	· · /	Arounmd 15kı Upper La		e of Odaka War Lower La	()	② Density Limit Specified by the Reactor Regulation (Bq/L)
Time of Sampling	Dec 26, 2 6:48 Al		,	Dec 26, 2013 6:48 AM		2013 M	Dec 26, 2013 6:25 AM		Dec 24, 2013 5:55 AM		Dec 24, 2013 5:55 AM		(The density limit in the water outside the surrounding monitored
Detected Nuclides (Half-life)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample Scaling Factor ①Density of Sample Scaling Factor		Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	areas is provided in section 6 of Appendix 2.)	
Cs-134 (Approx. 2 years)	0.020	0.00	0.017	0.00	0.014	0.00	0.032	0.00	ND	-	0.0039	0.00	60
Cs-137 (Approx. 30 years)	0.050	0.00	0.040	0.00	0.035	0.00	0.076	0.00	0.0046	0.00	0.010	0.00	90

* The density specified by the Reactor Regulation is converted from Bq/cm³ to Bq/L.

* In the case of more than 2 nuclides, the sum of scaling factors to density limits is compared to 1.

* "ND" indicates that the measurement result is below the detection limit.

Cs-134: Approx.0.0014Bq/L As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected.

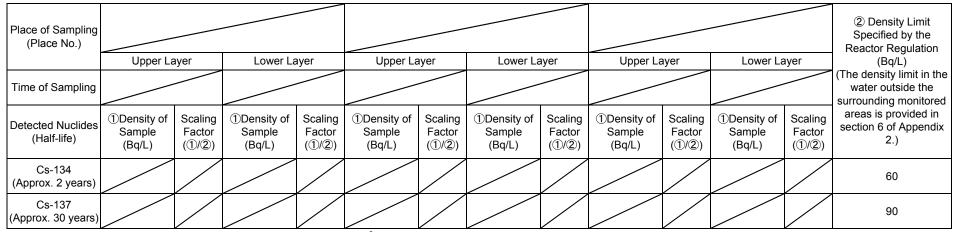
* Analysis results by detail analysis (Phosphomolybdic acid ammonium adsorption sampling method) are noted.

* Analyzed by: THE GENERAL ENVIRONMENTAL TECHNOS Co., LTD.

Nuclides Analysis Result of Radioactive Materials in the Seawater <Offshore 4/4>

(Data summarized on February 4)

Place of Sampling (Place No.)	Around 18km	Around 18km Offshore of Ukedo River (T-B2)				10km Offs	hore of 1F (T-E	33)	Around	10km Offs	shore of 2F (T-E	34)	② Density Limit Specified by the Reactor Regulation
	Upper Layer Lower Layer			iyer	Upper La	iyer	Lower Layer		Upper Layer		Lower Layer		(Bq/L)
Time of Sampling	Dec 24, 2 6:29 Al		Dec 24, 2 6:29 Al		,	Dec 14, 2013 Dec 14, 2013 Dec 14, 2013 8:14 AM 8:14 AM 8:53 AM			Dec 14, 2013 8:53 AM		(The density limit in the water outside the surrounding monitored		
Detected Nuclides (Half-life)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	areas is provided in section 6 of Appendix 2.)
Cs-134 (Approx. 2 years)	ND	-	0.0045	0.00	0.0024	0.00	0.0014	0.00	ND	-	ND	-	60
Cs-137 (Approx. 30 years)	0.0047	0.00	0.0096	0.00	0.0060	0.00	0.0045	0.00	0.0045	0.00	0.0041	0.00	90



* The density specified by the Reactor Regulation is converted from Bq/cm³ to Bq/L.

* In the case of more than 2 nuclides, the sum of scaling factors to density limits is compared to 1.

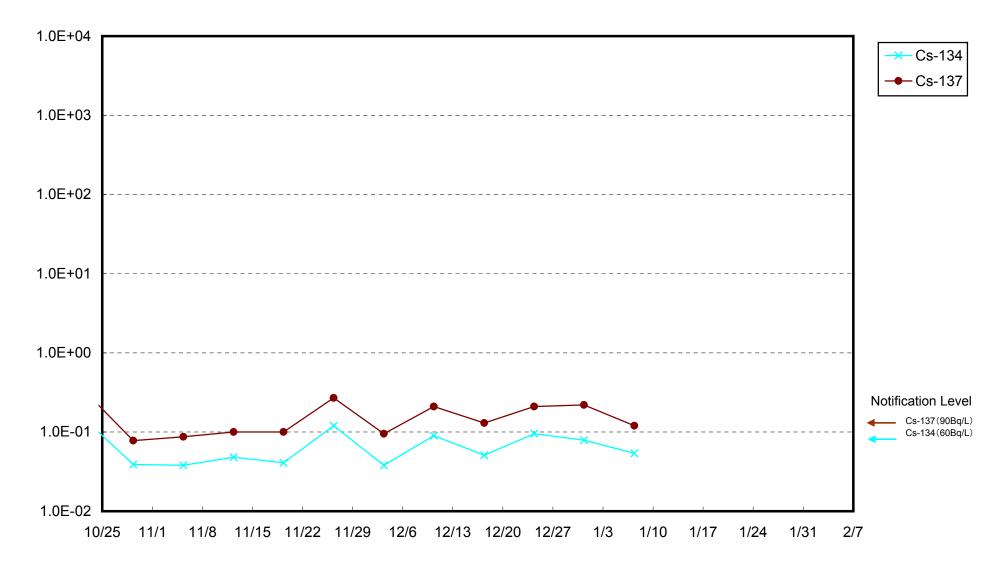
* "ND" indicates that the measurement result is below the detection limit.

Cs-134: Approx.0.0014Bq/L As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected.

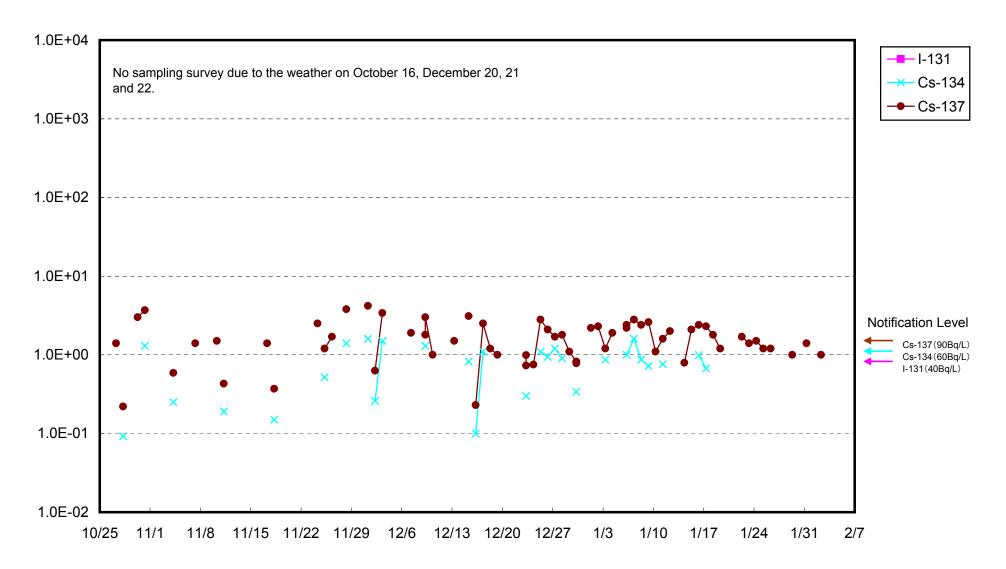
* Analysis results by detail analysis (Phosphomolybdic acid ammonium adsorption sampling method) are noted.

* Analyzed by: THE GENERAL ENVIRONMENTAL TECHNOS Co., LTD.

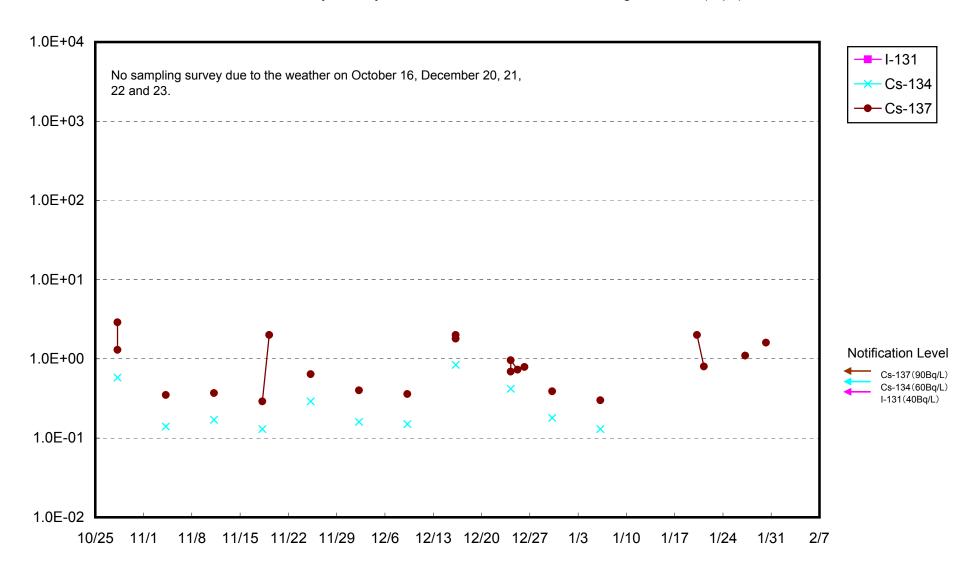
Radioactivity Density of the South Side of the Ukedo Port (Bq/L)



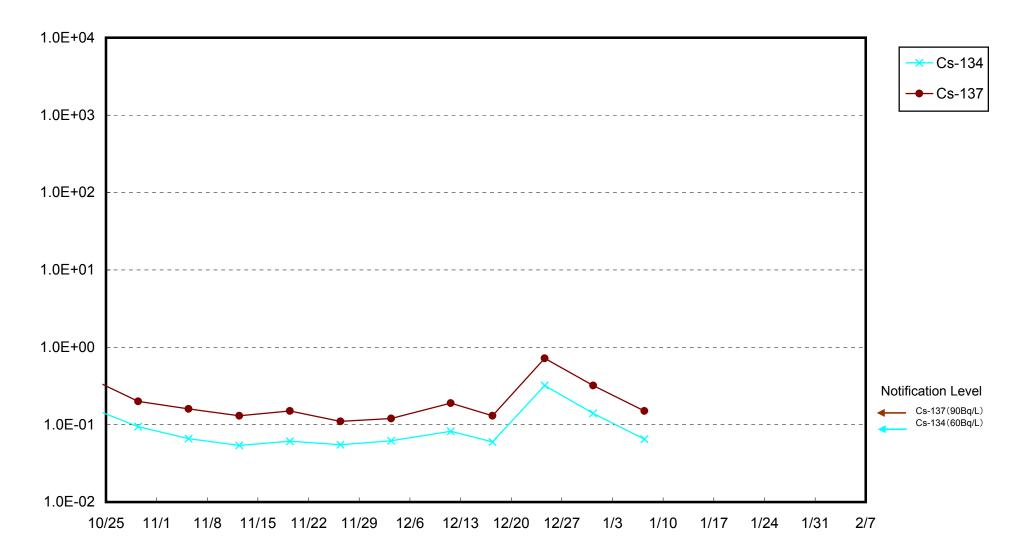
Radioactivity Density of the Seawater at 1F Units 5-6 North Discharge Channel (Bq/L)



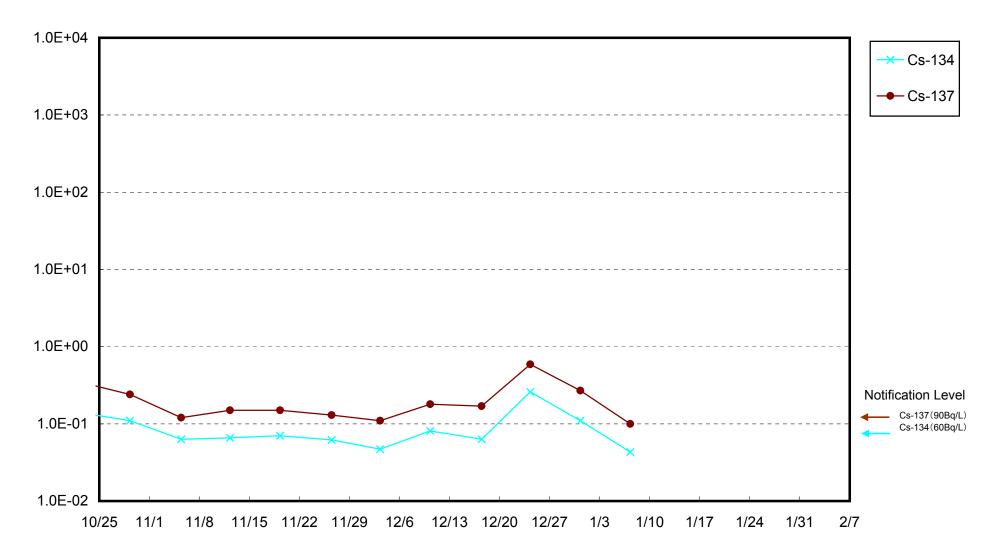
Radioactivity Density of the Seawater at 1F South Discharge Channel (Bq/L)



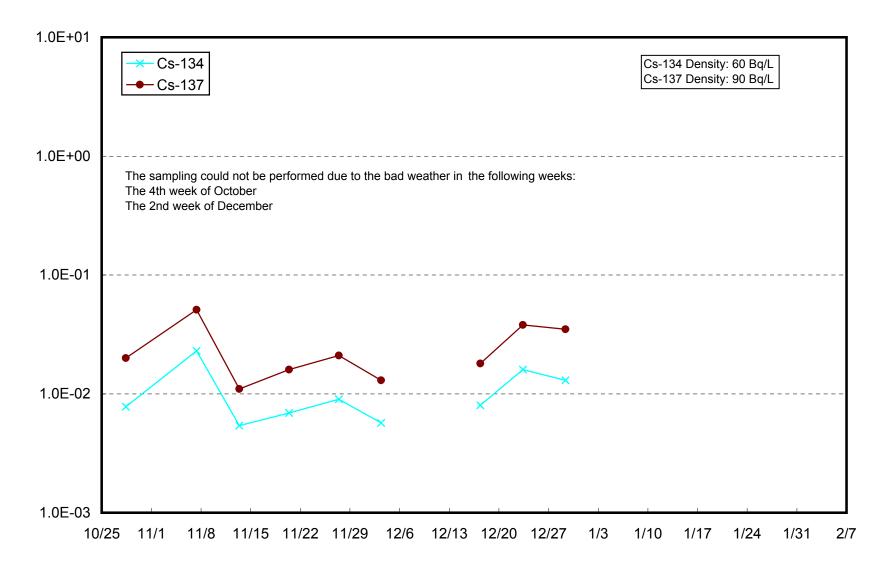
Radioactivity Density of the Seawater at 2F North Discharge Channel (Bq/L)



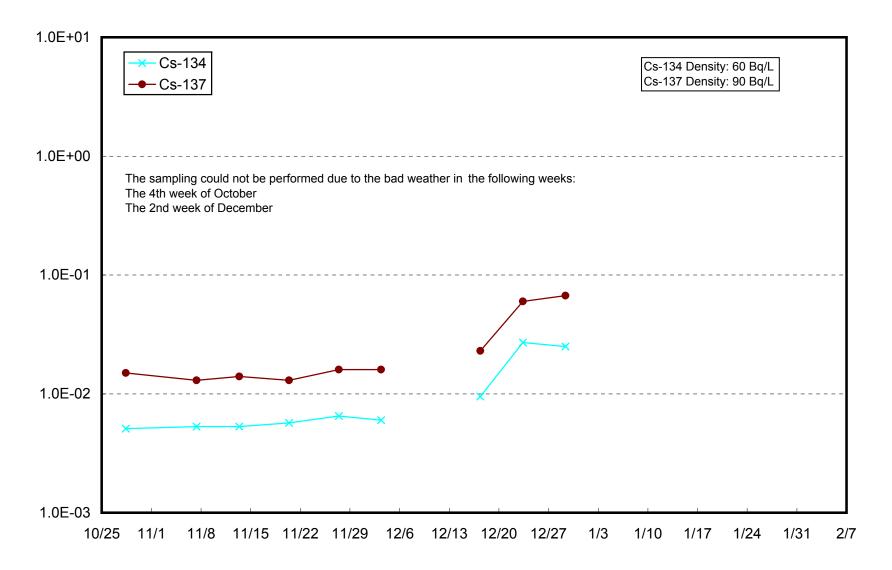
Radioactivity Density of the Seawater Around the Iwasawa Shore of 2F (Bq/L)



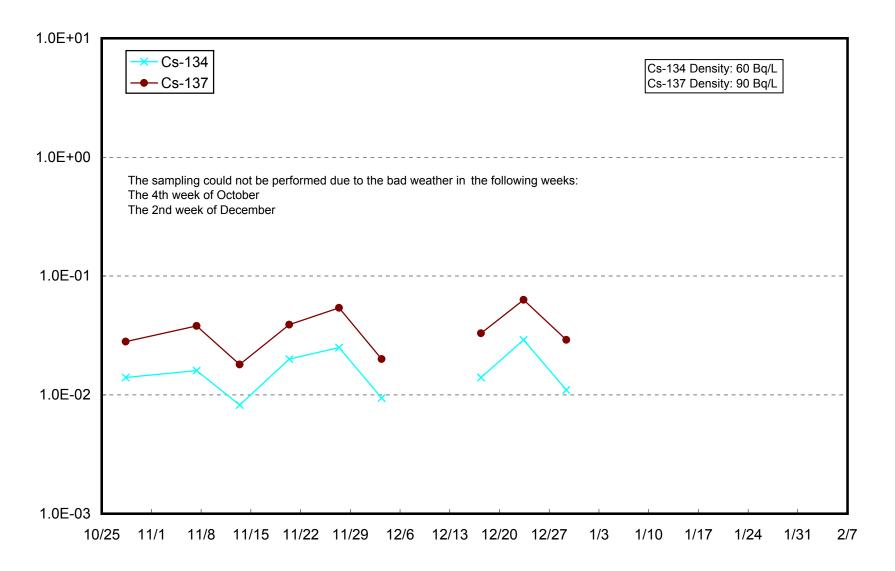
Radioactivity Density of the Seawater at 3km Offshore of Odaka Ward (T-14) Upper Layer (Bq/L)



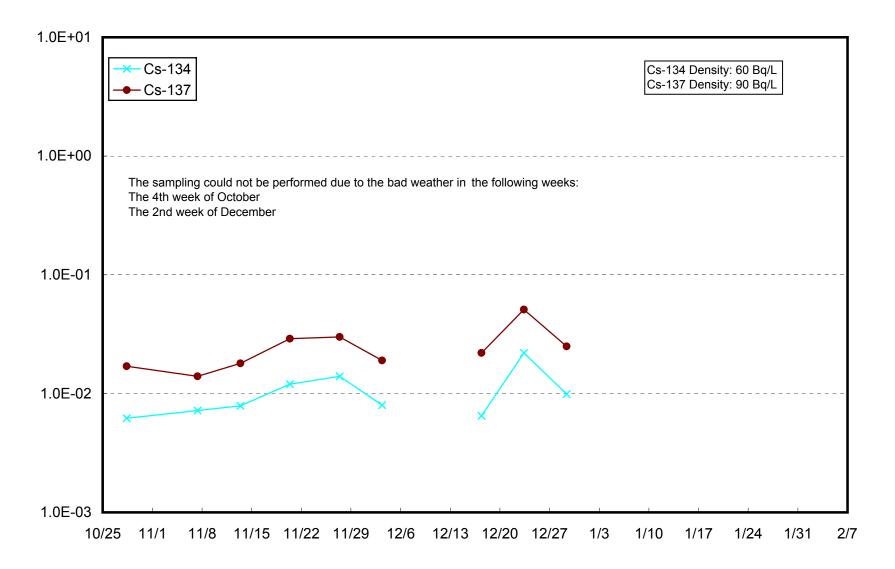
Radioactivity Density of the Seawater at 3km Offshore of Odaka Ward (T-14) Lower Layer (Bq/L)



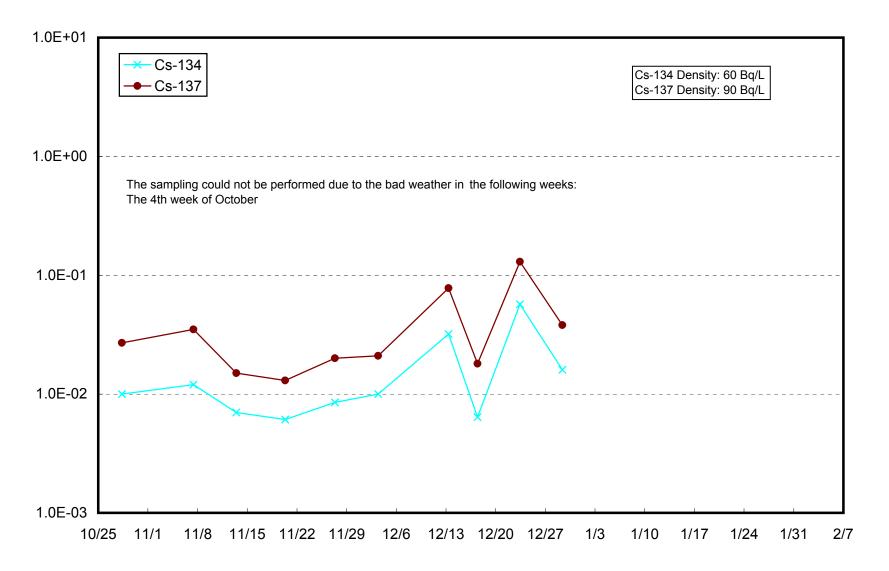
Radioactivity Density of the Seawater at 3km Offshore of Ukedo River (T-D1) Upper Layer (Bq/L)



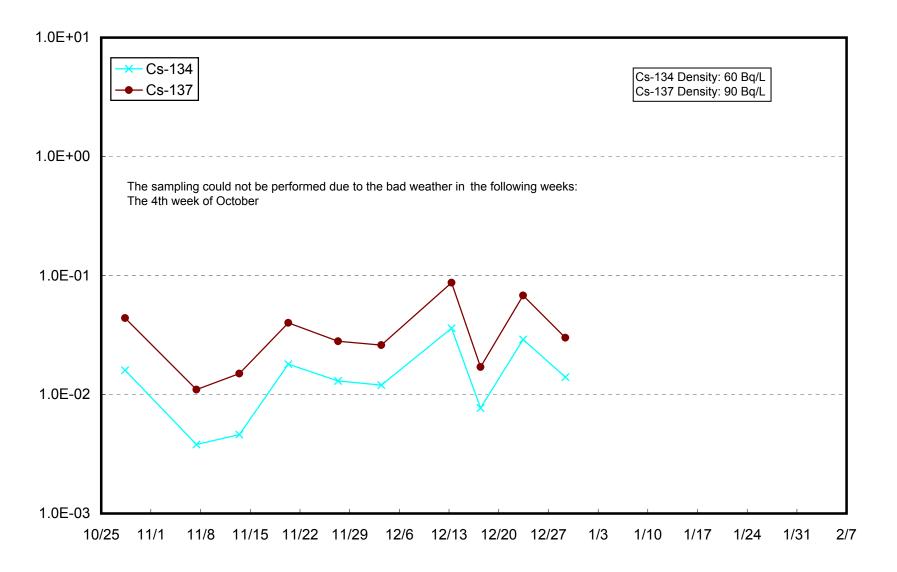
Radioactivity Density of the Seawater at 3km Offshore of Ukedo River (T-D1) Lower Layer (Bq/L)



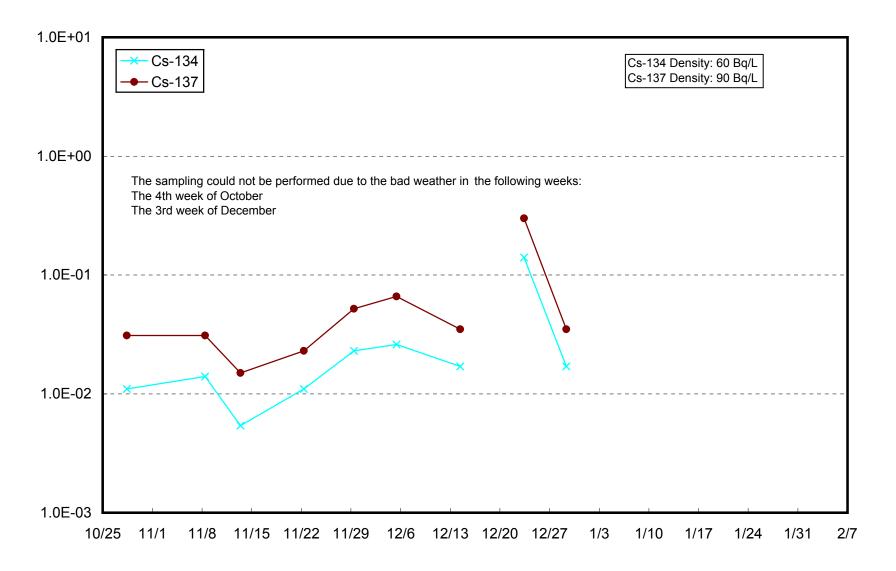
Radioactivity Density of the Seawater at 3km Offshore of Fukushima Daiichi NPS (T-D5) Upper Layer (Bq/L)



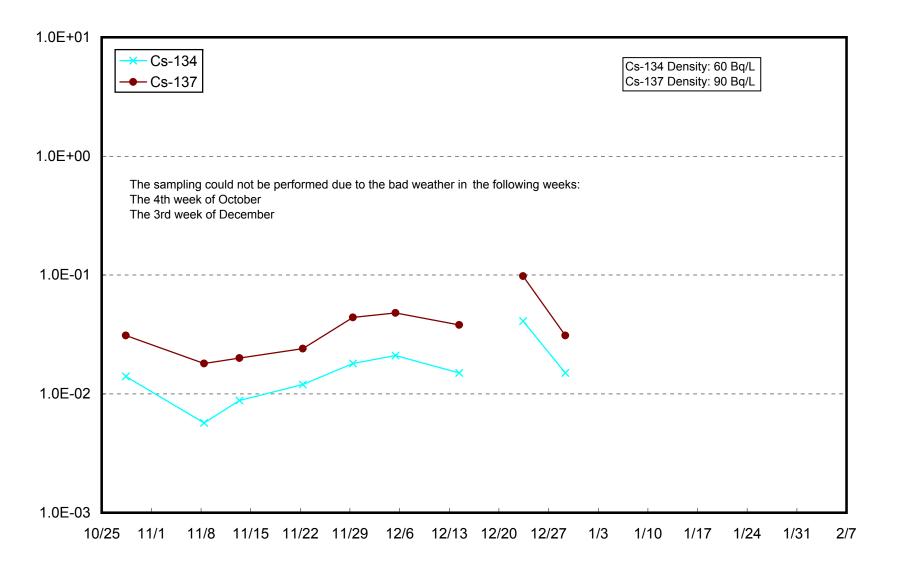
Radioactivity Density of the Seawater at 3km Offshore of Fukushima Daiichi NPS (T-D5) Lower Layer (Bq/L)



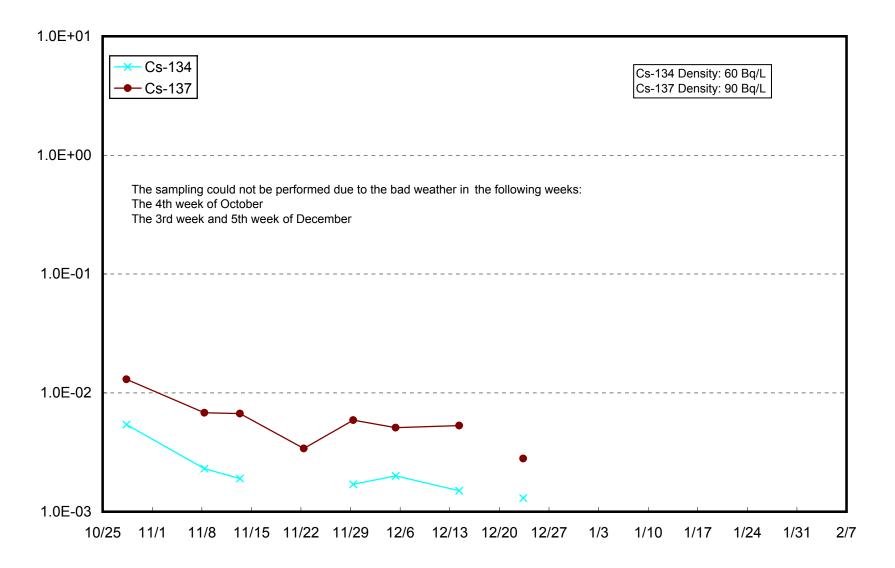
Radioactivity Density of the Seawater at 3km Offshore of Fukushima Daini NPS (T-D9) Upper Layer (Bq/L)



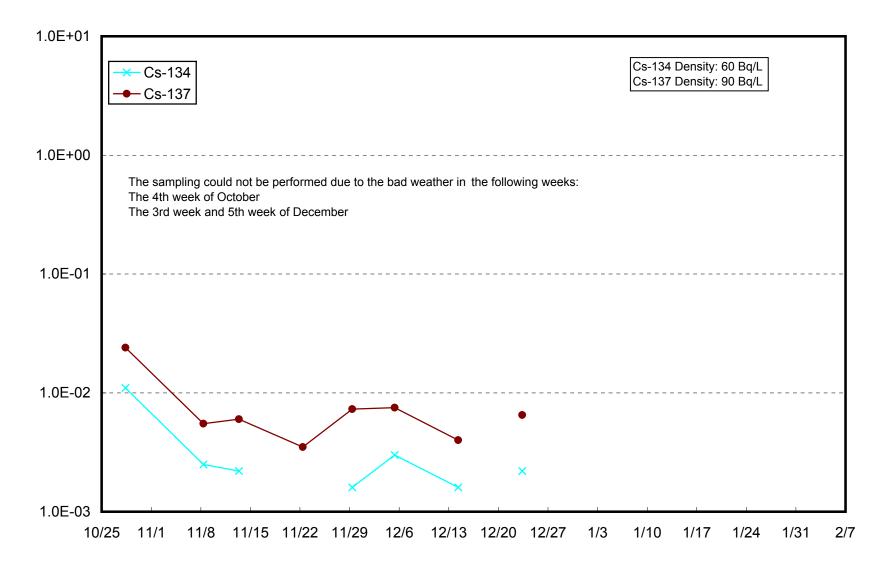
Radioactivity Density of the Seawater at 3km Offshore of Fukushima Daini NPS (T-D9) Lower Layer (Bq/L)



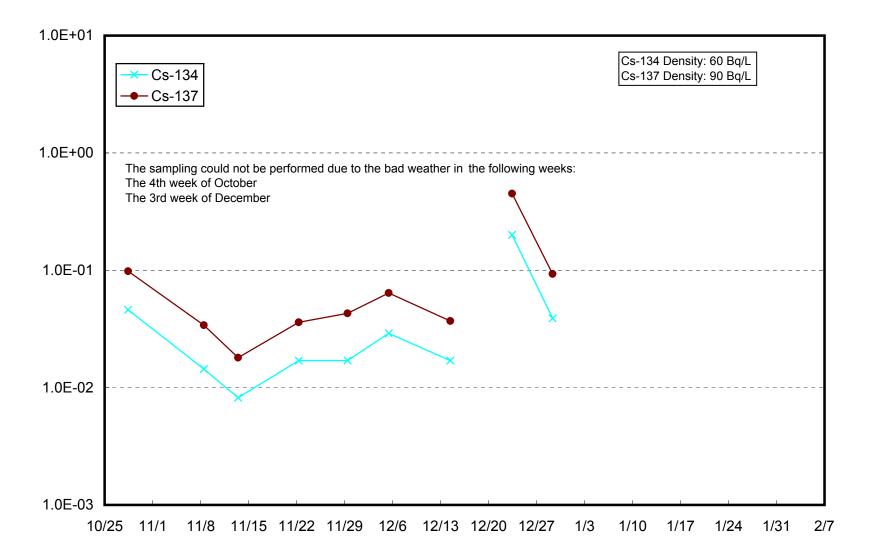
Radioactivity Density of the Seawater at 15km Offshore of Fukushima Daiichi NPS (T-5) Upper Layer (Bq/L)



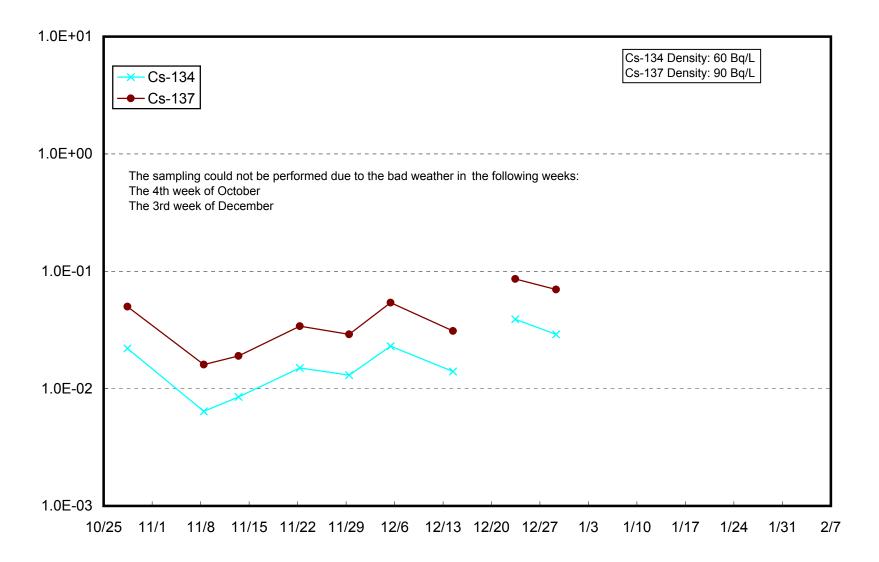
Radioactivity Density of the Seawater at 15km Offshore of Fukushima Daiichi NPS (T-5) Lower Layer (Bq/L)



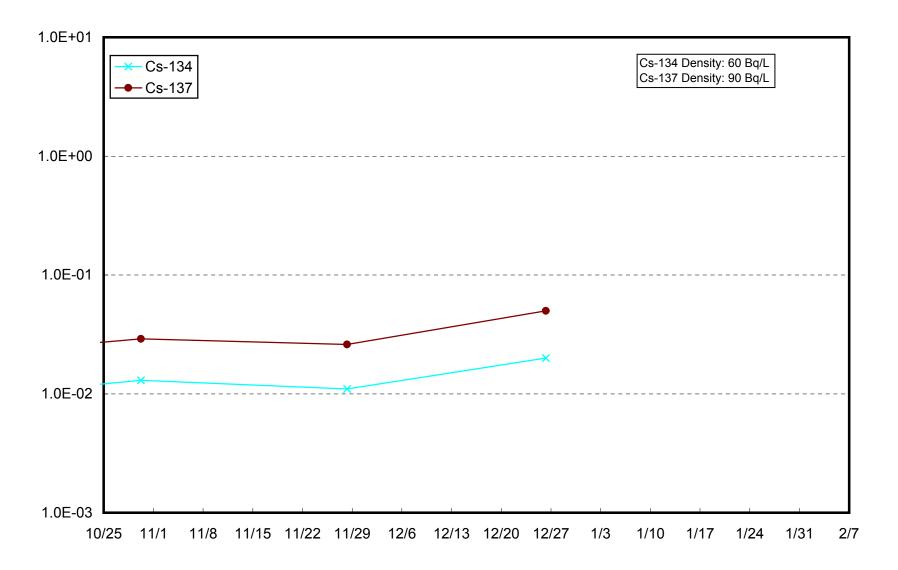
Radioactivity Density of the Seawater at 3km Offshore of Iwasawa Shore (T-11) Upper Layer (Bq/L)



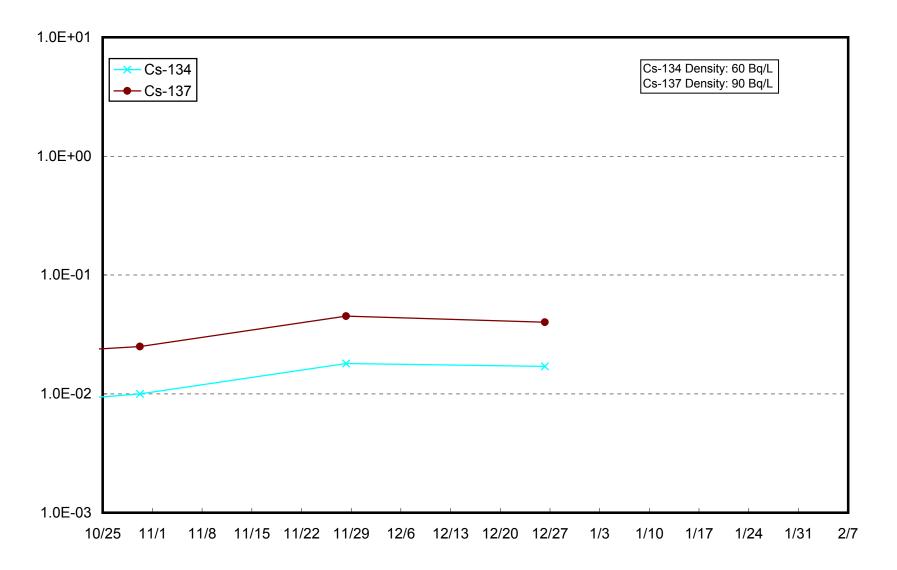
Radioactivity Density of the Seawater at 3km Offshore of Iwasawa Shore (T-11) Lower Layer (Bq/L)



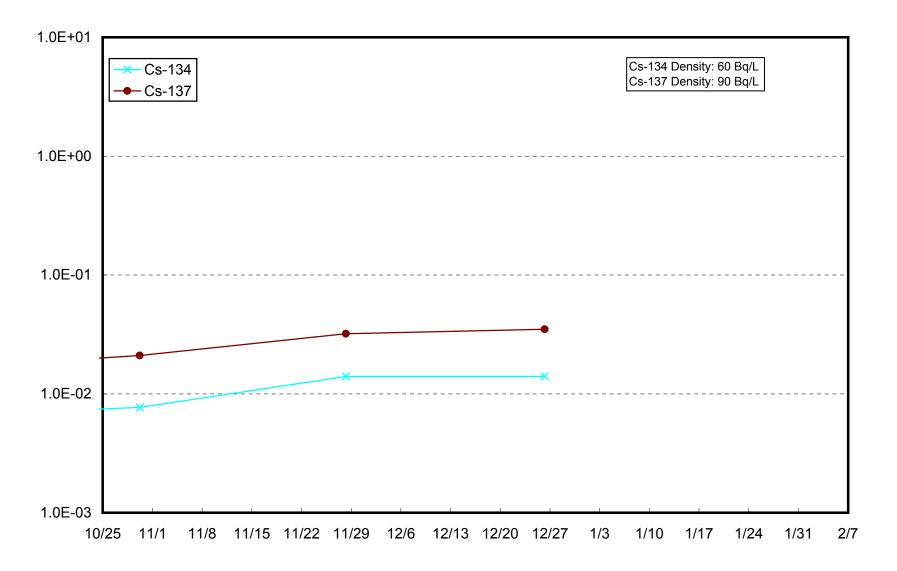
Radioactivity Density of the Seawater Around 1km Offshore of Ota River (T-S1) Upper Layer (Bq/L)



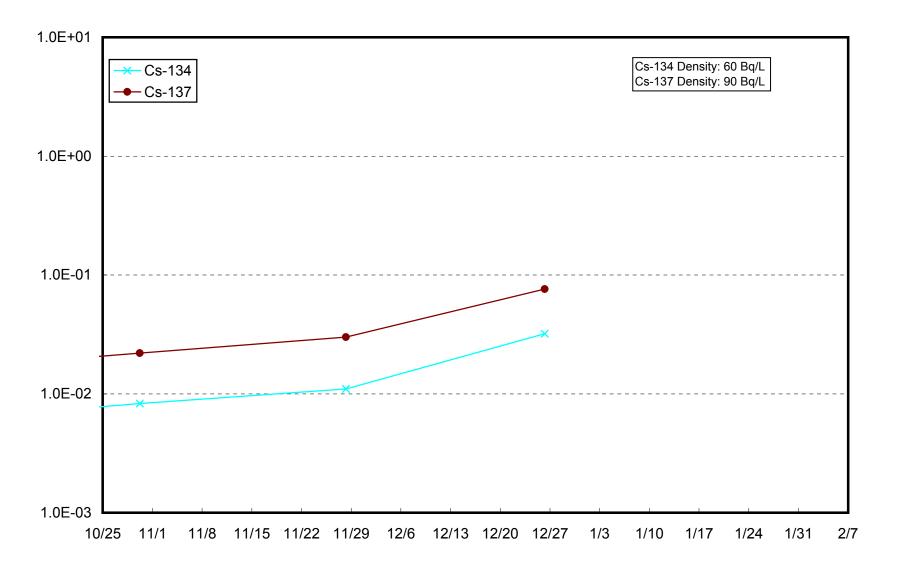
Radioactivity Density of the Seawater Around 1km Offshore of Ota River (T-S1) Lower Layer (Bq/L)



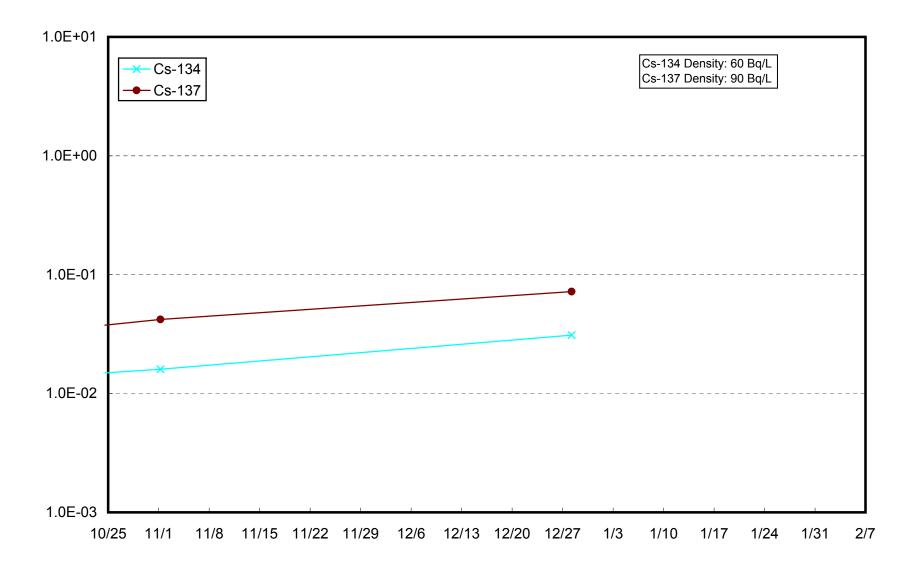
Radioactivity Density of the Seawater Around 3km Offshore of Odaka Ward (T-S2) Upper Layer (Bq/L)



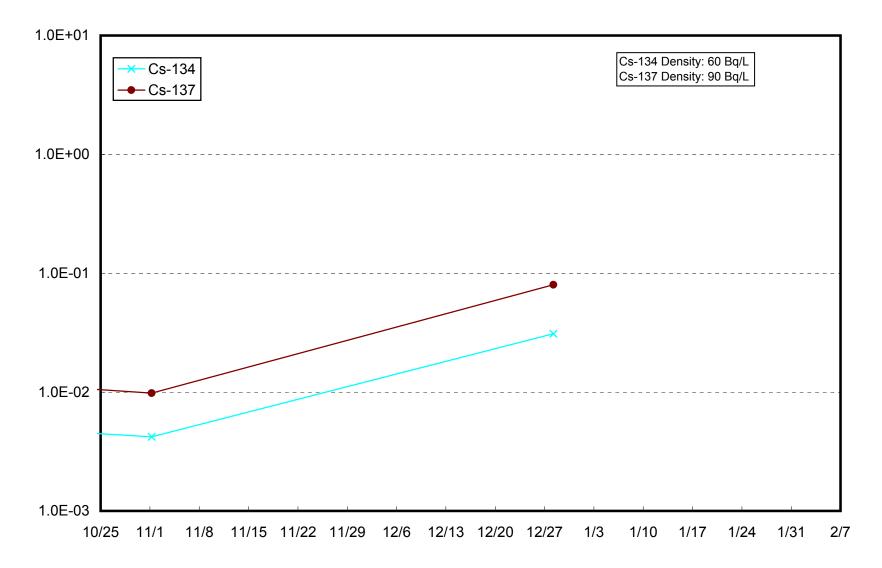
Radioactivity Density of the Seawater Around 3km Offshore of Odaka Ward (T-S2) Lower Layer (Bq/L)



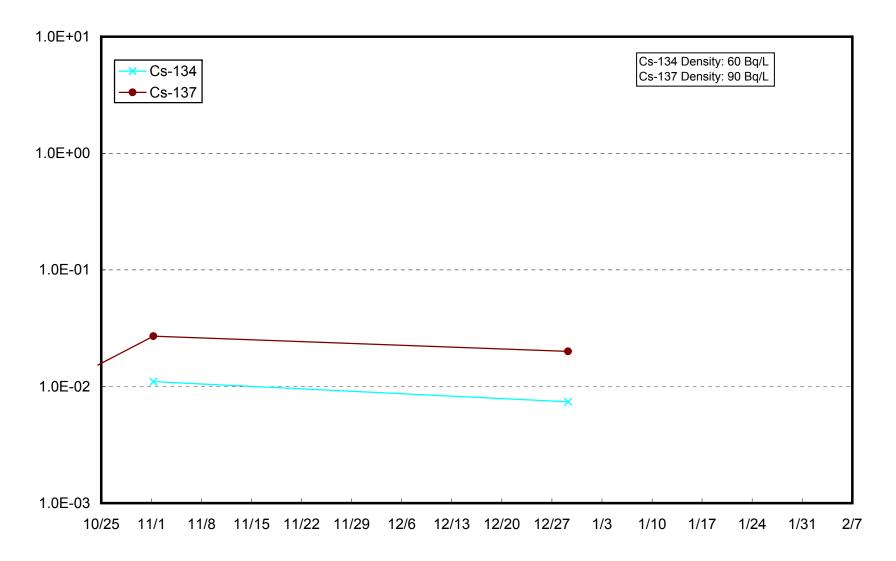
Radioactivity Density of the Seawater at 3km Offshore of Onahama Port (T-18) Upper Layer (Bq/L)



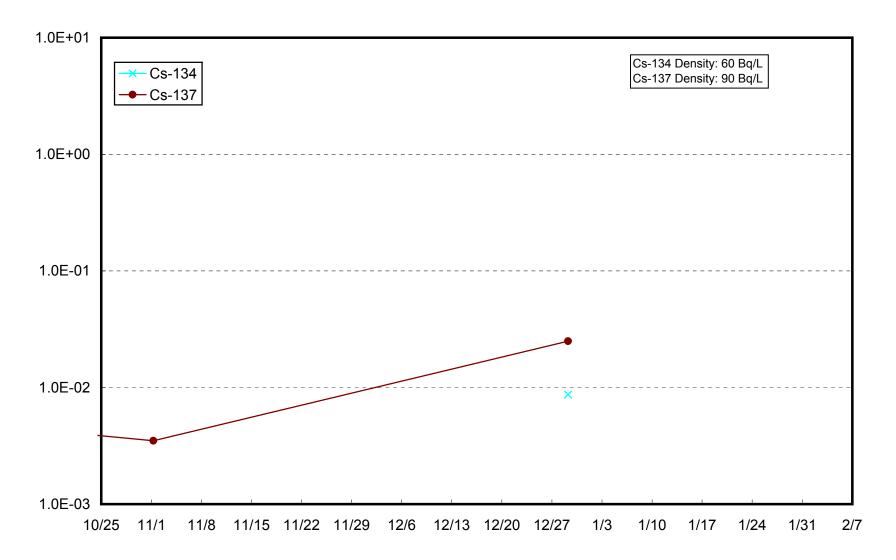
Radioactivity Density of the Seawater at 3km Offshore of Onahama Port (T-18) Lower Layer (Bq/L)



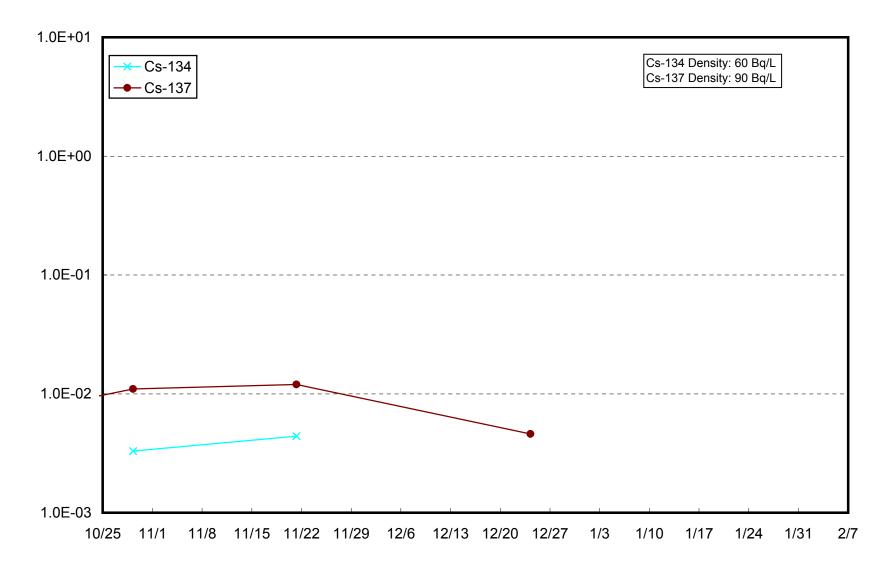
Radioactivity Density of the Seawater at 5km Offshore of Numanouchi (T-M10) Upper Layer (Bq/L)



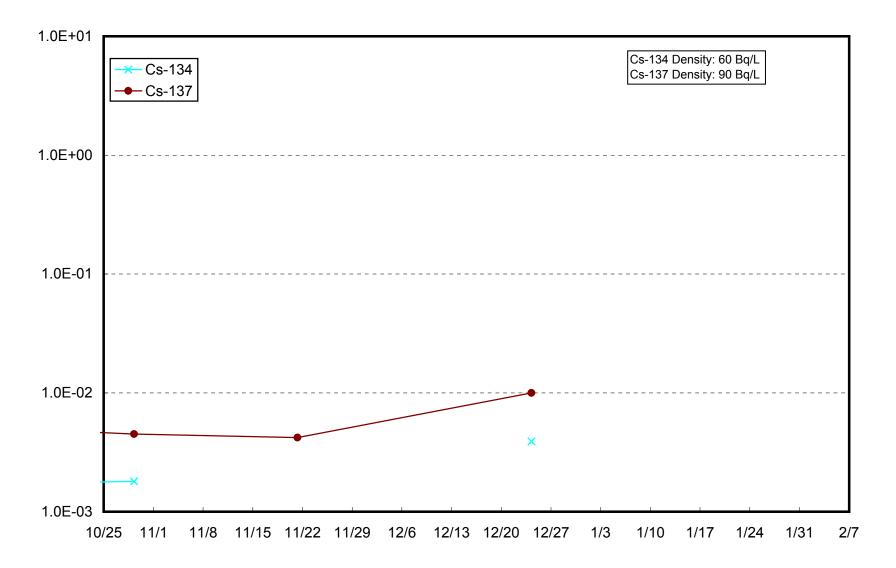
Radioactivity Density of the Seawater at 5km Offshore of Numanouchi (T-M10) Lower Layer (Bq/L)



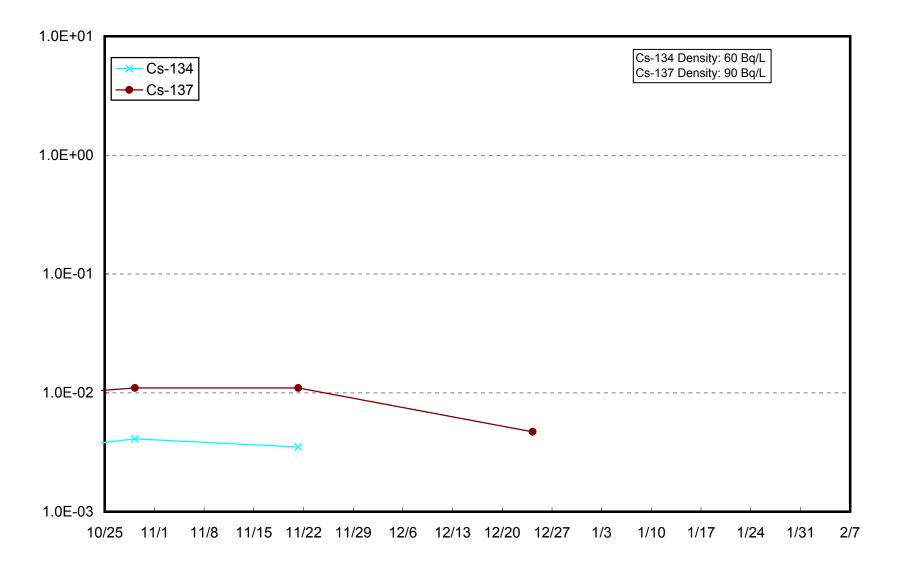
Radioactivity Density of the Seawater at 15km Offshore of Odaka Ward (T-B1) Upper Layer (Bq/L)



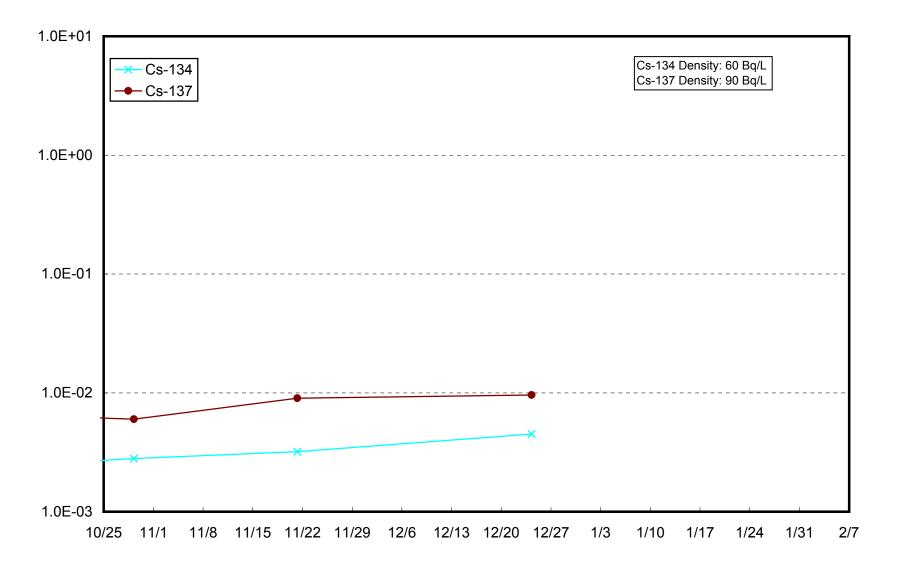
Radioactivity Density of the Seawater at 15km Offshore of Odaka Ward (T-B1) Lower Layer (Bq/L)



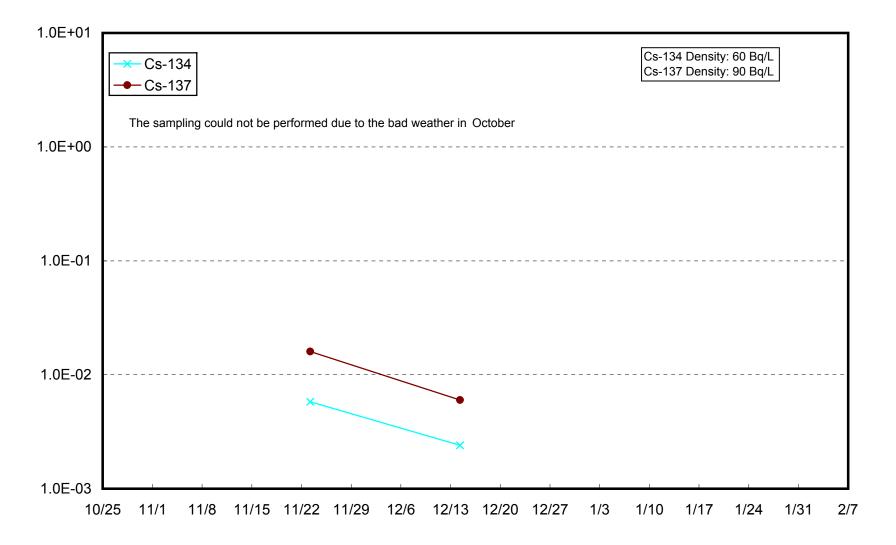
Radioactivity Density of the Seawater at 18km Offshore of Ukedo River (T-B2) Upper Layer (Bq/L)



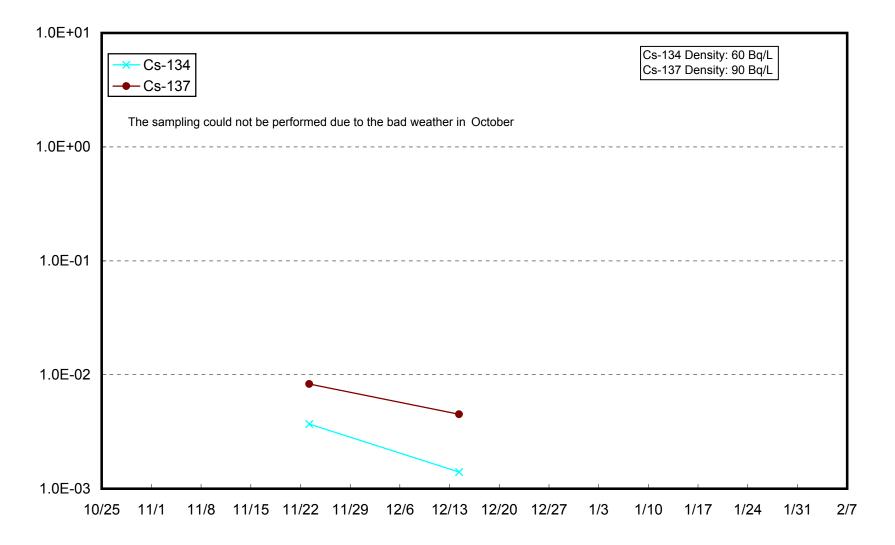
Radioactivity Density of the Seawater at 18km Offshore of Ukedo River (T-B2) Lower Layer (Bq/L)



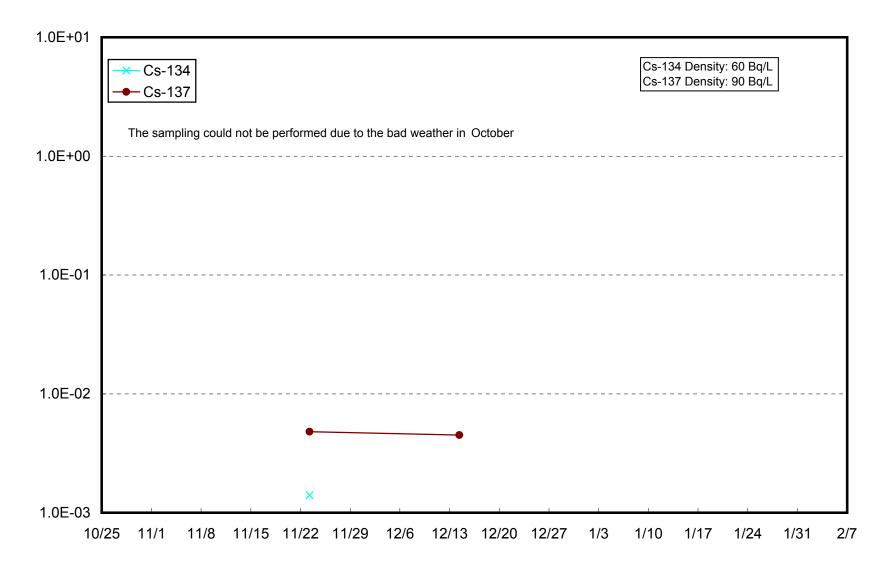
Radioactivity Density of the Seawater Around 10km Offshore of Fukushima Daiichi NPS (T-B3) Upper Layer (Bq/L)



Radioactivity Density of the Seawater Around 10km Offshore of Fukushima Daiichi NPS (T-B3) Lower Layer (Bq/L)



Radioactivity Density of the Seawater Around 10km Offshore of Fukushima Daini (T-B4) Upper Layer (Bq/L)



Radioactivity Density of the Seawater Around 10km Offshore of Fukushima Daini (T-B4) Lower Layer (Bq/L)

