

Nuclide Analysis Results of Fish and Shellfish
<Ocean Area Within 20km Radius of Fukushima Daiichi Nuclear Power Station>
 Samples collected in the second quarter of FY2018

[Measurement results of Sr-90 (half-life approx. 29 years) in fish]

Name of Sample (Region)	Place of Sampling (Place No.)	Date of Sampling	Radioactivity Concentration [Bq/kg(Raw)] (Half-life)	
			Sr-90 ^{*1} (Approx. 29 years)	Reference ^{*1} (Sum of Cs-134 and Cs-137)
Japanese angel shark (whole) ^{*2}	Around 1km Offshore of Ota River (T-S1)	August 3, 2018	0.045	10
Black sea bream (whole) ^{*2}	Around 1km Offshore of Ota River (T-S1)	August 3, 2018	0.034	ND
Common skete (whole) ^{*3}	Around 2km Offshore of Kido River (T-S5)	July 3, 2018	0.18	6.9
Japanese angel shark (whole) ^{*2}	Around 2km Offshore of Fukushima Daini NPS(T-S7)	September 10, 2018	0.041	14
Common skete (whole) ^{*3}	Around 4km Offshore of Kumagawa (T-S8)	July 20, 2018	0.16	7.7

^{*1}Cs: Edible parts of fish were used for the measurement. Sr: Whole of fish were used for the measurement.

The sum of Cs-134 and Cs-137 radioactivity concentrations as a standard value (since April 1, 2012) is 100Bq per kg.

^{*2}The Sr-90 analysis was conducted by ²KANSO CO., LTD. and by ³Kyushu Environmental Evaluation Association.

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[Measurement results of Tritium (half-life approx. 12 years) in fish]

Place of Sampling(Place No.): Around 4km Offshore of Kumagawa (T-S8)

Name of Sample (Region)	Date of Sampling	Tritium concentration (Bq/L)		Tritium concentration (Bq/kg (Raw))		Reference (Sum of Cs-134 and Cs-137) (Bq/kg (Raw))
		Free Water Tritium	Organically Bound Tritium	Free Water Tritium	Organically Bound Tritium	
Flatfish (muscle)	July 20, 2018	0.072	ND(0.26)	0.056	ND(0.039)	ND
Flatfish (muscle)	August 30, 2018	0.072	ND(0.26)	0.056	ND(0.040)	ND
Flatfish (muscle)	September 21, 2018	0.059	ND(0.26)	0.047	ND(0.035)	ND

Reference

	Date of Sampling	Tritium concentration (Bq/L)
Around 4km Offshore of Kumagawa (T-S8) Seawater	July 19, 2018	0.076
	August 30, 2018	0.058
	September 20, 2018	0.075

*The sum of Cs-134 and Cs-137 radioactivity concentrations as a standard value (since April 1, 2012) is 100Bq per kg.

*The tritium analysis was conducted by Kyushu Environmental Evaluation Association.

*Edible parts of fish were used for the measurement.

*Free Water Tritium means tritium which is contained in the moisture of fish muscles and the values are compared with tritium concentrations in seawater where fish lives.

Organically Bound Tritium means tritium which is contained in dried fish muscles and the values show tritium concentrations in the vapor generated when dried fish is burned.

*The measurement results are calculated to two significant figures.

*ND, not detected, indicates that a value is less than the detection limit of a radioactive concentration. The detection limit is provided in parenthesis.