



What are Dioxins & Furans

Dioxins are a group of toxic congeners which are highly persistent and bio-accumulative environmental pollutants, 2,3,7,8-TCDD being the most toxic. Produced inadvertently by industrial processes, dioxins and furans can be found in the air, water, and soil. As they accumulate they can become harmful to human health.

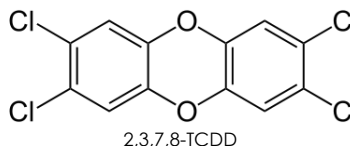
Major Contributors to Dioxins in the Environment

- Incineration of Municipal Solid Waste
- Incineration of Medical Waste
- Secondary Copper Smelting
- Forest Fires
- Land Application of Sewage Sludge
- Cement Kilns
- Coal Fired Power Plants
- Residential Wood Burning
- Chlorine Bleaching of Wood Pulp



HR/MS Autospec Premier Instrument

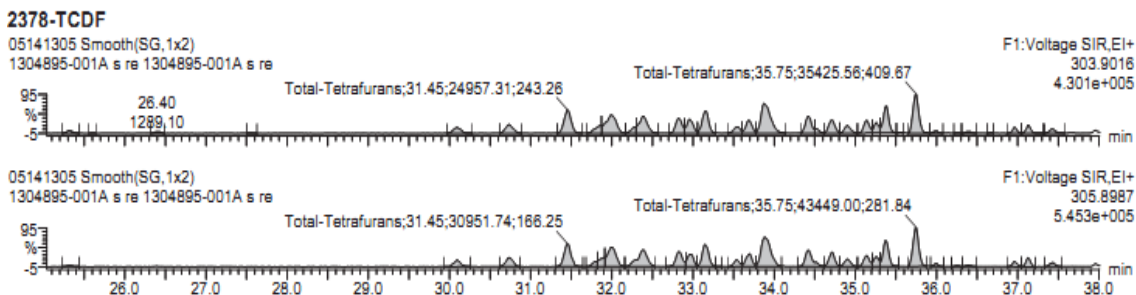
MAI now offers Dioxin & Furan testing



MAI is now certified to analyze Dioxins & Furans by EPA methods 1613, 8280A, & 8290, as well as 2,3,7,8-TCDD by EPA 613, meeting the 5ppq drinking water and effluent regulatory limits.

Our standard turnaround time is 10 -15 business days and the quickest turnaround time offered is 5 business days.

Below is a chromatogram for Total Tetrafurans with the target peak 2,3,7,8-TCDF identified. Please note that the target peak is only 8.2% of total TCDF.



Questions or concerns? Please contact us:

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McC Campbell Analytical, Inc.

Dioxin & Dibenzofuran RL, MDL & EDL Comparison

Analyte	CAS	MDL, pg/L	PQL = RL, pg/L	EDL Range, pg/L *
2,3,7,8-TCDD	1746-01-6	0.66	5	0.538 - 5.97
2,3,7,8-TCDF	51207-31-9	0.77	5	0.362 - 8.93
1,2,3,7,8-PeCDD	40321-76-4	1.65	25	0.086 - 1.58
1,2,3,7,8-PeCDF	57117-41-6	2.51	25	0.160 - 1.54
2,3,4,7,8-PeCDF	57117-31-4	0.68	25	0.05 - 4.52
1,2,3,4,7,8-HxCDD	39227-28-6	3.13	25	0.112 - 2.87
1,2,3,6,7,8-HxCDD	57653-85-7	2.44	25	0.128 - 1.69
1,2,3,7,8,9-HxCDD	19408-74-3	1.93	25	0.129 - 2.95
1,2,3,4,7,8-HxCDF	70648-26-9	1.44	25	0.118 - 2.04
1,2,3,6,7,8-HxCDF	57117-44-9	1.59	25	0.128 - 2.8
1,2,3,7,8,9-HxCDF	72918-21-9	1.65	25	0.107 - 2.77
2,3,4,6,7,8-HxCDF	60851-34-5	2.04	25	0.123 - 2.88
1,2,3,4,6,7,8-HpCDD	35822-46-9	1.46	25	0.231 - 3.73
1,2,3,4,6,7,8-HpCDF	67562-39-4	1.04	25	0.502 - 2.56
1,2,3,4,7,8,9-HpCDF	55673-89-7	0.9	25	0.132 - 3.72
OCDD	3268-87-9	2.69	50	0.188 - 1.47
OCDF	39001-02-0	4.05	50	0.074 - 2.28

* EDL is calculated for each sample and is sample specific