

DIOKSIŅŲ, FURANŲ IR DIOKSIŅŲ TIPO PCB MATAVIMŲ REZULTATAI

Atliktų matavimų tikslas – nustatyti į aplinką išmetamų dioksinų, furanų ir dioksinų tipo PCB (polichlorinti bifenilai) koncentraciją ir patvirtinti atitiktį leistinoms išmetimų normoms.

Matavimų periodas

Nepertraukiamas dūmų mėginio ėmimas buvo vykdomas nuo 2023 m. gruodžio mėn. 28 d. 10:30 val. iki 2024 m. sausio mėn. 30 d. 13:40 val.

Dioksinų, furanų ir dioksinų tipo PCB koncentracija

Išmetamų dioksinų ir furanų bei dioksinų tipo PCB koncentracijos analizės rezultatai pateikiami 1 paveiksle.

Rezultatų suvestinė

Galutiniai išmetamų dioksinų ir furanų bei dioksinų tipo PCB koncentracijos analizės rezultatai yra pateikiami ir palyginami su leistinomis ribinėmis normomis 1 lentelėje.

1 lentelė. Dioksinų, furanų ir dioksinų tipo PCB analizės rezultatų palyginimas su leistinomis ribinėmis normomis.

Parametras	Vienetai	Ribinės vertės	Rezultatai
PCDD/F ir dioksinų tipo PCB	ng / Nm ³	0,08	0,00087

Analytical Results

Sub-Matrix: EMISSIONS		Client sample ID		2024_01_KKJ_DX1 00_SMT-202311_0 01	---	---			
		Laboratory sample ID		PR2410310001	---	---			
		Client sampling date / time		[31-Jan-2024]	---	---			
Parameter	Method	LOR	Unit	Result	MU	Result	MU	Result	MU
PCDDs and PCDFs (Dioxins and Furans)									
2378-TCDD	A-DFHMS02	-	ng/m ³	<0.000032	---	---	---	---	---
12378-PeCDD	A-DFHMS02	-	ng/m ³	<0.000041	---	---	---	---	---
123478-HxCDD	A-DFHMS02	-	ng/m ³	<0.00007	---	---	---	---	---
123678-HxCDD	A-DFHMS02	-	ng/m ³	<0.00007	---	---	---	---	---
123788-HxCDD	A-DFHMS02	-	ng/m ³	<0.00007	---	---	---	---	---
1234678-HpCDD	A-DFHMS02	-	ng/m ³	<0.00092	---	---	---	---	---
OCDD	A-DFHMS02	-	ng/m ³	<0.00021	---	---	---	---	---
2378-TCDF	A-DFHMS02	-	ng/m ³	0.00042	± 30.0%	---	---	---	---
12378-PeCDF	A-DFHMS02	-	ng/m ³	0.00046	± 30.0%	---	---	---	---
23478-PeCDF	A-DFHMS02	-	ng/m ³	0.00047	± 30.0%	---	---	---	---
123478-HxCDF	A-DFHMS02	-	ng/m ³	0.00033	± 30.0%	---	---	---	---
123678-HxCDF	A-DFHMS02	-	ng/m ³	0.00063	± 30.0%	---	---	---	---
123788-HxCDF	A-DFHMS02	-	ng/m ³	<0.000069	---	---	---	---	---
234678-HxCDF	A-DFHMS02	-	ng/m ³	0.00030	± 30.0%	---	---	---	---
1234678-HpCDF	A-DFHMS02	-	ng/m ³	0.00060	± 30.0%	---	---	---	---
1234788-HpCDF	A-DFHMS02	-	ng/m ³	<0.000082	---	---	---	---	---
OCDF	A-DFHMS02	-	ng/m ³	<0.00015	---	---	---	---	---
TEQ-Lowerbound	A-DFHMS02	-	ng/m ³	0.00033	---	---	---	---	---
TEQ-Upperbound	A-DFHMS02	-	ng/m ³	0.00044	---	---	---	---	---
PCB dioxin-like HRMS									
PCB 77	A-PCBHMS03	-	ng/m ³	0.00640	± 30.0%	---	---	---	---
PCB 81	A-PCBHMS03	-	ng/m ³	<0.00072	---	---	---	---	---
PCB 105	A-PCBHMS03	-	ng/m ³	0.0140	± 30.0%	---	---	---	---
PCB 114	A-PCBHMS03	-	ng/m ³	<0.0021	---	---	---	---	---
PCB 118	A-PCBHMS03	-	ng/m ³	0.0290	± 30.0%	---	---	---	---
PCB 123	A-PCBHMS03	-	ng/m ³	<0.00062	---	---	---	---	---
PCB 126	A-PCBHMS03	-	ng/m ³	0.00380	± 30.0%	---	---	---	---
PCB 156	A-PCBHMS03	-	ng/m ³	0.00350	± 30.0%	---	---	---	---
PCB 167	A-PCBHMS03	-	ng/m ³	0.00180	± 30.0%	---	---	---	---
PCB 167	A-PCBHMS03	-	ng/m ³	0.00420	± 30.0%	---	---	---	---
PCB 169	A-PCBHMS03	-	ng/m ³	0.00170	± 30.0%	---	---	---	---
PCB 170	A-PCBHMS03	-	ng/m ³	<0.0068	---	---	---	---	---
PCB 180	A-PCBHMS03	-	ng/m ³	<0.0055	---	---	---	---	---
PCB 188	A-PCBHMS03	-	ng/m ³	<0.0024	---	---	---	---	---
TEQ (dl-PCB) - lower	A-PCBHMS03	-	ng/m ³	0.00043	---	---	---	---	---
TEQ (dl-PCB) - upper	A-PCBHMS03	-	ng/m ³	0.00043	---	---	---	---	---
PCB Indicators HRMS									
PCB 28	A-PCBHMS05	-	ng/m ³	0.170	± 30.0%	---	---	---	---
PCB 52	A-PCBHMS05	-	ng/m ³	0.0520	± 30.0%	---	---	---	---
PCB 101	A-PCBHMS05	-	ng/m ³	<0.042	---	---	---	---	---
PCB 118	A-PCBHMS05	-	ng/m ³	0.0290	± 30.0%	---	---	---	---
PCB 138	A-PCBHMS05	-	ng/m ³	<0.04	---	---	---	---	---
PCB 153	A-PCBHMS05	-	ng/m ³	<0.03	---	---	---	---	---
PCB 180	A-PCBHMS05	-	ng/m ³	<0.0056	---	---	---	---	---
Total Polychlorinated biphenyls - 7 congeners - lower	A-PCBHMS05	-	ng/m ³	0.25	---	---	---	---	---
Total Polychlorinated biphenyls - 7 congeners - upper	A-PCBHMS05	-	ng/m ³	0.37	---	---	---	---	---

When sampling date is not provided by the client, the laboratory determines it for procedural reasons, then it is equal to the date of receipt of the sample to the laboratory and is displayed in brackets. Measurement uncertainty is expressed as expanded measurement uncertainty with coverage factor $k = 2$, representing 95% confidence level.

Key: LOR = Limit of reporting; MU = Measurement Uncertainty. The MU does not include sampling uncertainty.

1 pav. Dioksinų, furanų ir dioksinų tipo PCB analizės rezultatai