



Attachment no. 2 to the Certificate of Analysis for work order PR2258582

Sample:

NE 6

ALS SAMPLE ID: PR2258582/ 002

Measurement results PCDD/Fs:

Sample:		NE 6			
Sample volume [ml]: 950		Final extract [μl]:		60	
		Injection volume [μl]:		4	
		Acquisition date [d.m.y]:		15.06.2022	
2,3,7,8-PCDD/Fs	Result [pg/l]	Limit of Detection [pg/l]	Limit of Quantification [pg/l]	¹ I-TEFs	I-TEQ Upperbound [pg/l]
2,3,7,8-TCDD	< 0.51	0.51	1	1	0.51
1,2,3,7,8-PeCDD	< 1.2	1.2	2.4	0.5	0.6
1,2,3,4,7,8-HxCDD	< 2.6	2.6	5.3	0.1	0.26
1,2,3,6,7,8-HxCDD	< 2.1	2.1	4.2	0.1	0.21
1,2,3,7,8,9-HxCDD	< 2.1	2.1	4.2	0.1	0.21
1,2,3,4,6,7,8-HpCDD	< 1.2	1.2	2.5	0.01	0.012
OCDD	< 1.2	1.2	2.4	0.001	0.0012
2,3,7,8-TCDF	< 0.76	0.76	1.5	0.1	0.076
1,2,3,7,8-PeCDF	< 1.5	1.5	2.9	0.05	0.073
2,3,4,7,8-PeCDF	< 3.5	3.5	7.1	0.5	1.8
1,2,3,4,7,8-HxCDF	< 1.9	1.9	3.8	0.1	0.19
1,2,3,6,7,8-HxCDF	< 2.5	2.5	5	0.1	0.25
1,2,3,7,8,9-HxCDF	< 2.8	2.8	5.7	0.1	0.28
2,3,4,6,7,8-HxCDF	< 2.1	2.1	4.3	0.1	0.21
1,2,3,4,6,7,8-HpCDF	< 4.3	4.3	8.7	0.01	0.043
1,2,3,4,7,8,9-HpCDF	< 1.8	1.8	3.6	0.01	0.018
OCDF	< 1.5	1.5	3	0.001	0.0015
I-TEQ from quantified 2,3,7,8-PCDD/Fs - "Lowerbound"					0
I-TEQ from 2,3,7,8-PCDD/Fs -, "Mediumbound"					2.4
Maximum possible I-TEQ - "Upperbound"					4.7
PCDDs	Result [pg/l]	PCDFs	Result [pg/l]		
Tetra-CDDs	< 11	Tetra-CDFs	< 29		
Penta-CDDs	< 17	Penta-CDFs	< 41		
Hexa-CDDs	< 26	Hexa-CDFs	< 30		
Hepta-CDDs	< 2.5	Hepta-CDFs	< 17		
OCDD	< 1.2	OCDF	< 1.5		
Total PCDDs	< 58	Total PCDFs	< 120		

¹I-TEF according to NATO.

The limit of quantification is defined as double of the detection limit.

The limit of detection is defined as the amount of analyte producing a signal with $S/N \geq 3$.

The value of detection limit is mentioned as the actual value at the acquisition date.

Measurement uncertainty is expressed as a double ($k=2$) relative standard deviation (RSD%), and corresponds to 95% confidence interval.

Estimation of uncertainty of each 2,3,7,8-PCDD/F congener is 30% and total TEQ is 20%.

These values were ensured by analyses of certified reference material under conditions of internal reproducibility.

Results marked "<" are bellow limit of detection or quantification.

"Lowerbound" and "Upperbound" are levels defined in Regulation 2017/644 and EN 1948-4.

"Mediumbound" is levels defined in Regulation 2017/644.