

Article

Hydraulic Oil Infiltration into Potable Water through Aircraft Pneumatic Systems: A Qualitative Assessment of Chemical Contamination

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Table S1. Analytical separation method used for potable water analysis.

Time (min)	A (H ₂ O + 0.1% formic acid) (%)	B (ACN) (%)
0	90	10
5	60	40
12	0	100
20	0	100
21.01	90	10

Table S2. ESI ion source and auto-MS/MS parameters used for potable water analysis.

Source Parameters	Value
Gas Temp.	300 °C
Drying Gas Flow	10 L·min ⁻¹
Nebulizer Pressure	35 psi
Sheath Gas Temp.	275 °C
Sheath Gas Flow	12 L·min ⁻¹
Capillary Voltage	3500 V
Nozzle Voltage	1500 V
Fragmentor Voltage	75 V
Skimmer Voltage	65 V
Oct 1 RF Vpp Voltage	750 V

Spectral Parameters	Value
MS Min Range	100 m/z
MS Max Range	930 m/z
MS Acquisition Rate	4 spectra·s ⁻¹
MS Acquisition Time	250 ms·spectrum ⁻¹
MS/MS Min Range	50 m/z
MS/MS Max Range	500 m/z
MS/MS Acquisition Rate	4 spectra·s ⁻¹
MS/MS Acquisition Time	250 ms·spectrum ⁻¹
Isolation Width	Narrow (~1.3 m/z)

Collision Energy	Value
Use Fixed Collision Energies	15 eV, 30 eV



Precursor Selection I	Value
Max Precursor Per Cycle	6
Absorbance Threshold	25,000 counts
Rel. Threshold	0.01%
Active Exclusion	Enabled
Active Exclusion—Excluded After	2 spectra
Active Exclusion—Released After	0.1 min
Static Exclusion Range	120–122 m/z; 920–922 m/z
Mass Error Tolerance	+/- 20 ppm
RT Exclusion Tolerance	+/- 0.2 min

Precursor Selection II	Value
Isotope Model	Common Organic Molecules
Precursor Charge State Selection-Active	1
Sort Precursors by Abundance only	Enabled
Scan speed varied based on precuros abundance	Enabled
Target	25000 counts/spectrum
Use MS/MS accumulation time limit	Enabled
Purity Stringency	100%
Purity Cutoff	30%