

Environmental Method

Illicit drugs analysis in water

Elevate your environmental testing with the X500R QTOF System

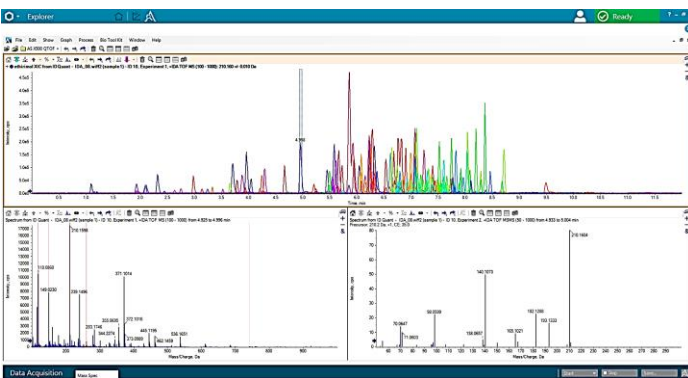
Method details and access to HR-MS/MS libraries to detect, quantify, and confirm illicit drugs in water samples using HPLC coupled with the X500R QTOF system, powered by SCIEX OS Software.

Sample Prep

- Step 1**
 - Samples acidified to pH 2 using HCL and stored in the dark at 4°C until required
- Step 2**
 - Transfer 1mL of sample into an analytical vial



SCIEX OS can deliver faster method set-up



SCIEX OS delivers enhanced data exploration of your acquired TOF MS and TOF MS/MS data

LC Method

Column	Phenomenex Kinetex C18, 100 x 4.6 mm, 5 um column	
Mobile Phase A	0.1% formic acid in water + 2mM ammonium formate	
Mobile Phase B	Acetonitrile	
Flow rate	0.9 mL/min	
Column temperature	30°C	
Injection volume	100 uL	
Gradient profile	Time (min)	% B
	0	2
	1	2
	7	65
	7.1	100
	9	100
	9.1	2
	12	2

MS Method

Suggested IDA (Information Dependent Acquisition) conditions for routine environmental testing as displayed in SCIEX OS.

Data Processing

Review your results with utmost efficiency using SCIEX OS for simultaneous quantitation and MS/MS library confirmation.

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X500R High Resolution Libraries

Compound	CAS Number	Formula	Elemental Weight
2,2-Dimethylbutane	2062-08-4	C ₆ H ₁₄	86.1708
2,2-Dimethylpropane	4980-08-2	C ₅ H ₁₂	72.1508
2,3-Dimethylbutane	9898-06-7	C ₆ H ₁₄	86.1708
2,3-Dimethylpentane	2062-08-4	C ₇ H ₁₆	98.1908
2,4-Dimethylpentane	9898-06-7	C ₇ H ₁₆	98.1908
2,5-Dimethylpentane	9898-06-7	C ₇ H ₁₆	98.1908
2,6-Dimethylpentane	9898-06-7	C ₇ H ₁₆	98.1908
3-Ethylpentane	9898-06-7	C ₇ H ₁₆	98.1908
3-Methylpentane	9898-06-7	C ₇ H ₁₆	98.1908
4-Ethylpentane	9898-06-7	C ₇ H ₁₆	98.1908
4-Methylpentane	9898-06-7	C ₇ H ₁₆	98.1908
5-Ethylpentane	9898-06-7	C ₇ H ₁₆	98.1908
5-Methylpentane	9898-06-7	C ₇ H ₁₆	98.1908
Hexane	110-54-7	C ₆ H ₁₄	86.1708
Heptane	142-92-1	C ₇ H ₁₆	98.1908
Octane	142-92-1	C ₈ H ₁₈	114.2308
Nonane	110-54-7	C ₉ H ₂₀	128.2708
Decane	142-92-1	C ₁₀ H ₂₂	142.3108
Undecane	110-54-7	C ₁₁ H ₂₄	156.3508
Dodecane	142-92-1	C ₁₂ H ₂₆	170.3908
Tridecane	110-54-7	C ₁₃ H ₂₈	184.4308
Tetradecane	142-92-1	C ₁₄ H ₃₀	198.4708
Pentadecane	110-54-7	C ₁₅ H ₃₂	212.5108
Hexadecane	142-92-1	C ₁₆ H ₃₄	226.5508
Heptadecane	110-54-7	C ₁₇ H ₃₆	240.5908
Octadecane	142-92-1	C ₁₈ H ₃₈	254.6308
Nonadecane	110-54-7	C ₁₉ H ₄₀	268.6708
Eicosane	142-92-1	C ₂₀ H ₄₂	282.7108

Download the XIC List

Download a FREE Trial of the MS/MS Library

Download a free XIC compound list detailing a full list of illicit drug compounds including molecular formula and accurate mass.

Download a free trial of our All in One high resolution MS/MS library, containing 2135 compounds.

[Learn more at sciex.com/X-All.](http://sciex.com/X-All)



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