WORKFLOWS FOR PFAS TESTING

PerkinElmer PFAS QSight® LC/MS Quantitative Workflow

Adding new capabilities to your analytical laboratory in an efficient way can be challenging – especially without predetermined methods. So to accelerate this process, we've developed workflows for EPA PFAS methods, including Method 533, Method 537.1, and Draft Method 1633. Once these methods are established in your busy production environment, maximizing sample throughput is key. Our innovative StayClean technology enables you to run more samples per week due to a robust tolerance and minimal cleaning requirements for dirty matrices such as sludge, tissue, food, and soil.

INCREASED ROBUSTNESS AND UPTIME

Revolutionary StayClean/HSID technologies allow you to analyze dirty, complex matrices. Here's how:

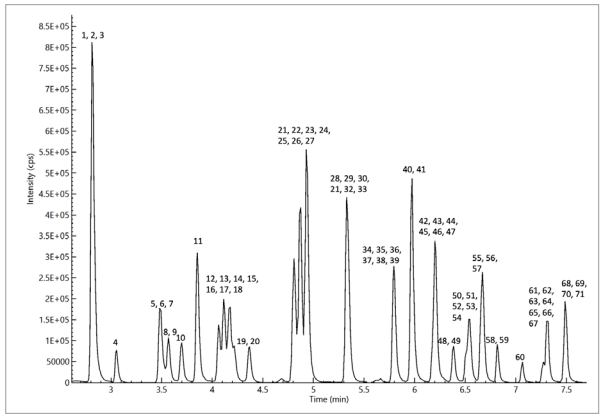
- Continuous flow of hot gas acts as a constant cleaning agent
- Entirely flow dominant, it requires no optimization or voltage adjustment

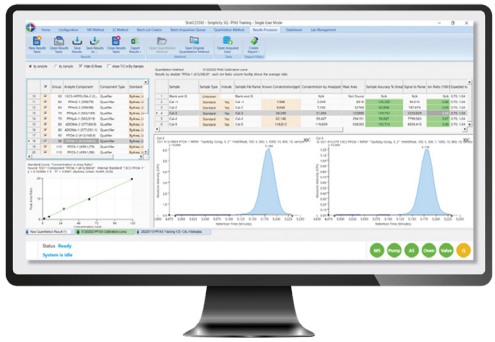
PFAS Workflow at a Glance

PerkinElmer®
For the Better

PFAS Workflow = Fastest Runtime, Maximum Uptime

EPA DRAFT METHOD 1633





QSight EPA Draft Method 1633 Performance

Analyte	Correlation Coefficient (R^2)	LOD (ng/L)	LOQ (ng/L)
PFBA	0.999941	0.2	0.6
PFMPA	0.999993	0.09	0.3
PFPeA	0.999952	0.04	0.1
3:3FTCA	0.999989	1	5
PFBS	0.999979	0.2	0.5
PFMBA	0.999991	0.06	0.2
PFEESA	0.999977	0.03	0.1
NFDHA	0.999880	0.08	0.3
4:2FTS	0.999921	0.09	0.3
PFHxA	0.999931	0.04	1
PFPeS	0.999970	0.03	0.1
HFPO-DA	0.999962	0.4	1
PFHxS	0.999880	0.03	0.1
PFHpA	0.999974	0.06	0.2
ADONA	0.999585	0.01	0.1
5:3FTCA	0.999388	0.3	1
6:2FTS	0.998310	0.1	0.4
PFOA	0.999987	0.1	0.5
PFHpS	0.999868	0.02	0.1
PFOS	0.999950	0.03	0.1

Analyte	Correlation Coefficient (R^2)	LOD (ng/L)	LOQ (ng/L)
PFNA	0.999721	0.2	0.6
7:3FTCA	0.999784	0.3	1
9Cl-PF3ONS	0.999850	0.5	2
NMeFOSAA	0.999326	0.02	0.1
PFNS	0.999903	0.2	0.5
PFDA	0.999913	0.5	2
8:2FTS	0.999629	0.1	0.4
NEtFOSAA	0.999965	0.1	0.4
PFDS	0.999901	0.04	0.1
PFUnA	0.999970	0.5	2
11-PF3OUdS	0.999747	0.01	0.1
PFOSA	0.999730	0.01	0.05
PFDoA	0.999919	0.3	1
PFTrDA	0.999724	0.2	0.8
PFDoS	0.999899	0.5	2
PFTeDA	0.999661	0.2	0.6
NMeFOSA	0.999976	0.1	0.4
NMEtFOSE	0.999986	0.9	3
NEtFOSE	0.999978	0.3	0.9
NEtFOSA	0.999963	0.07	0.2

EPA Method 537.1 Compounds

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PerkinElmer, U.S. LLC.
710 Bridgeport Ave.
Shelton, CT 06484-4794 USA
(+1) 855-726-9377
www.perkinelmer.com

For a complete listing of our global offices, visit www.perkinelmer.com/ContactUs