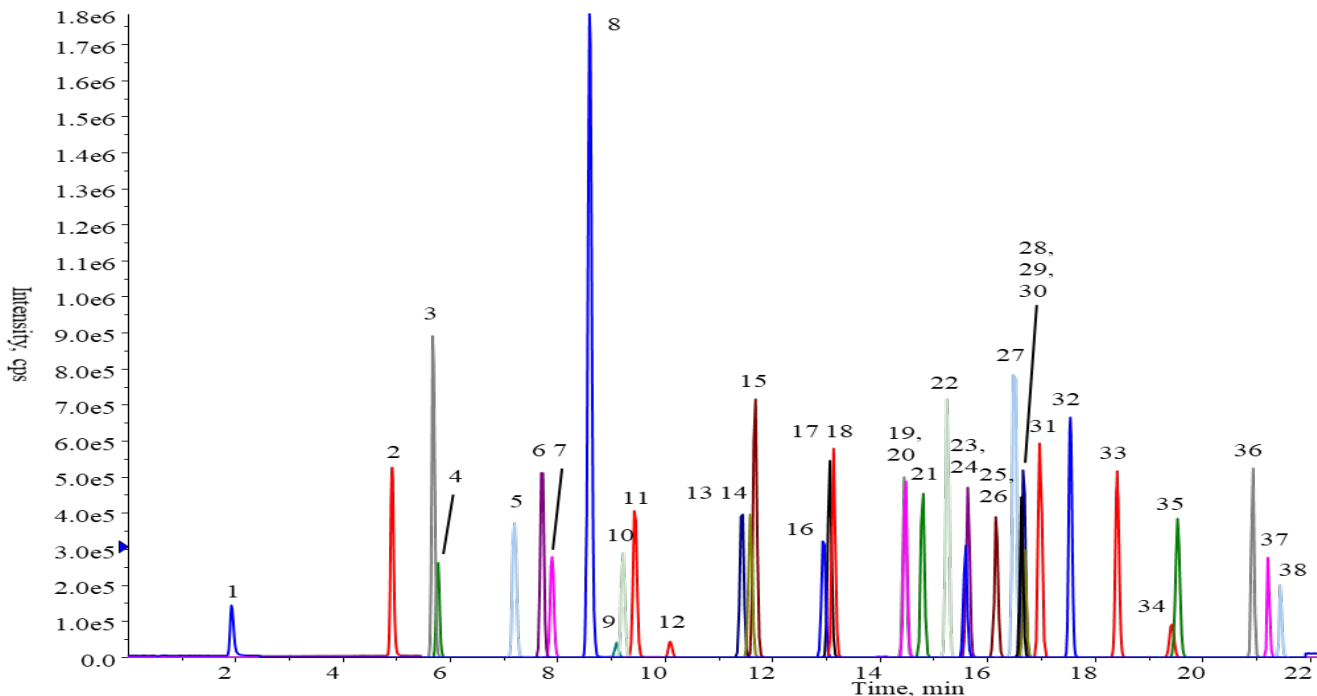


InertSearch for LC

Inertsil Applications

Analysis of Per - and Polyfluoroalkyl Substances (PFAS)

Data No. LB709-0888



Conditions

- System** : Exion HPLC System (SCIEX)
QTRAP 6500+ LC-MS/MS System (SCIEX)
- Column** : InertSustain AQ-C18 (1.9 μm , 50 x 2.1 mm I.D.) (GL Sciences Inc.)
- Column Cat. No.** : 5020-89938
- Delay Column** : Delay Column for PFAS (30 x 3.0 mm I.D.) (GL Sciences Inc.)
- Delay Column Cat. No.** : 5020-90005
- Eluent** : A) CH_3OH
B) 20 mmol/L $\text{CH}_3\text{COONH}_4$ in H_2O

Time (min)	A%	B%
0	5	95
0.5	5	95
3.0	40	60
16.0	80	20
18.0	80	20
20.0	95	5
22.0	95	5
25.0	5	95
30.0	5	95

- Flow Rate** : 0.25 mL/min
- Col. Temp.** : 40 $^\circ\text{C}$
- Detection** : LC/MS/MS (ESI, Negative, SRM)
CUR CAD IS TEM GS1 GS2
40 12 -4500 300 50 30
- Injection Vol.** : 2 μL
- Sample** : Standard in Methanol (1 ng/mL each)

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Inertsil Applications

No.	Compound	R.T.	Transition 1			Transition 2		
			Q1	Q3	CE	Q1	Q3	CE
1	PFPPrA	1.9	163	119	-16			
2	PFBA	4.9	213	169	-14			
3	PFPPrS	5.7	249	80	-52	249	99	-34
4	PFMBA	5.8	229	85	-16			
5	PFPeA	7.2	263	219	-11			
6	PFBS	7.7	299	80	-59	299	99	-44
7	PFMPA	7.9	279	85	-14			
8	PFEESA	8.6	315	135	-30	315	83	-24
9	NFDHA	9.1	295	201	-12	295	85	-30
10	4:2 FTSA	9.2	327	307	-28	327	81	-54
11	PFHxA	9.4	313	269	-15	313	119	-30
12	HFPO-DA(GenX)	10.1	329	169	-16	329	285	-8
13	PFHpA	11.4	363	319	-14	363	169	-26
14	PFHxS	11.6	399	80	-80	399	99	-80
15	ADONA(DONA)	11.7	377	251	-14	377	85	-56
16	6:2 FTSA	13.0	427	407	-32	427	81	-72
17	PFOA	13.1	413	369	-14	413	169	-26
18	PFHpS	13.1	449	80	-104	449	99	-70
19	PFOS	14.5	499	80	-97	499	99	-77
20	PFNA	14.5	463	419	-16	463	219	-26
21	8:2 FTUCA	14.8	457	393	-18	457	343	-52
22	9Cl-PF3ONS	15.3	531	351	-40	531	83	-56
23	8:2 FTSA	15.6	527	507	-40	527	81	-82
24	PFDA	15.6	513	469	-19	513	219	-27
25	N-MeFOSAA	16.2	570	419	-28	570	483	-22
26	N-MeFOSA	16.2	512	169	-37	512	219	-34
27	FOSA(PFOSA)	16.5	498	78	-85	498	169	-40
28	PFDS	16.6	599	80	-94	599	99	-91
29	PFUnDA(PFUnA)	16.7	563	519	-19	563	269	-28
30	N-EtFOSAA	16.7	584	419	-28	584	526	-22
31	10:2 FTUCA	17.0	557	493	-20	557	243	-52
32	PFDoDA(PFDoA)	17.5	613	569	-17	613	269	-29
33	PFTTrDA(PFTTrA)	18.4	663	619	-19	663	269	-32
34	N-EtFOSA	19.4	526	169	-37	526	219	-34
35	PFTeDA(PFTeA)	19.5	713	669	-19	713	319	-36
36	PFHxDA	20.9	813	769	-20	813	319	-34
37	8:2 diPAP	21.2	989	97	-88	989	543	-35
38	PFOcDA(PFOcDA)	21.5	913	869	-20	913	369	-40