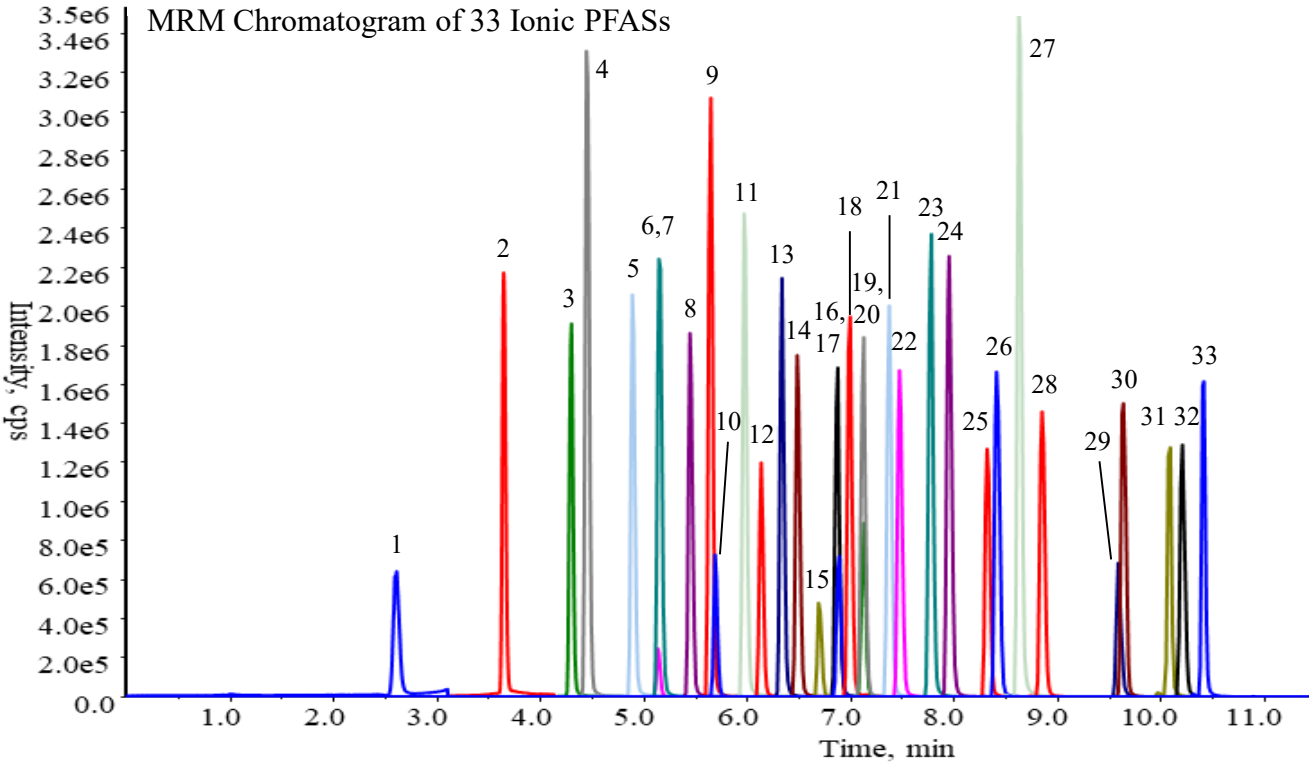
InertSearch for LC

Inertsil Applications

Analysis of Per - and Polyfluoroalkyl Substances (PFAS)

Data No. LB706-0888



Conditions

System : Exion HPLC System (SCIEX)
QTRAP 6500+ LC-MS/MS System (SCIEX)

Column : InertSustain AQ-C18 (1.9 µm 100 x 2.1 mm I.D.) (GL Sciences Inc.)

Column Cat. No. : 5020-89939

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_3CN
B) 2 mmol/L CH_3COONH_4 in H_2O

Time (min)	A%	B%
0	10	90
1.5	30	70
10.0	100	0
11.0	100	0
11.1	10	90
15.0	10	90

Flow Rate : 0.3 mL/min

Col. Temp. : 40 °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 (each 5 ng/mL)

GL Sciences

No.	Compounds	RT(min)	Transition 1			Transition 2		
			Q1	Q3	CE	Q1	Q3	CE
1	PFPrA	2.62	163	119	-16			
2	PFBA	3.66	213	169	-14			
3	PFPeA	4.31	263	219	-11			
4	PFPrS	4.46	249	80	-52	249	99	-34
5	PFHxA	4.90	313	269	-15	313	119	-30
6	HFPO-DA(GenX)	5.15	299	80	-59	299	99	-44
7	PFBS	5.16	329	169	-16	329	285	-8
8	PFHpA	5.46	363	319	-14	363	169	-26
9	ADONA(DONA)	5.66	377	251	-14	377	85	-56
10	6:2 FTSA	5.70	427	407	-32	427	81	-72
11	PFOA	5.98	413	369	-14	413	169	-26
12	8:2 FTUCA	6.14	457	393	-18	457	343	-52
13	PFHxS	6.34	399	80	-80	399	99	-80
14	PFNA	6.49	463	419	-16	463	219	-26
15	8:2 FTSA	6.70	527	507	-40	527	81	-82
16	PFHpS	6.88	449	80	-104	449	99	-70
17	N-MeFOSAA	6.89	570	419	-28	570	483	-22
18	PFDA	7.00	513	469	-19	513	219	-27
19	10:2 FTUCA	7.13	584	419	-28	584	526	-22
20	N-EtFOSAA	7.13	557	493	-20	557	243	-52
21	PFOS	7.38	499	80	-97	499	99	-77
22	PFUnDA(PFUnA)	7.48	563	519	-19	563	269	-28
23	9Cl-PF3ONS	7.79	531	351	-40	531	83	-56
24	PFDoDA(PFDoA)	7.96	613	569	-17	613	269	-29
25	PFDS	8.33	599	80	-94	599	99	-91
26	PFTrDA(PFTrA)	8.42	663	619	-19	663	269	-32
27	FOSA(PFOSA)	8.64	498	78	-85	498	169	-40
28	PFTeDA(PFTeA)	8.86	713	669	-19	713	319	-36
29	8:2 diPAP	9.59	989	97	-88	989	543	-35
30	PFHxDA	9.64	813	769	-20	813	319	-34
31	N-MeFOSA	10.10	913	869	-20	913	369	-40
32	PFOcDA(PFODA)	10.20	512	169	-37	512	219	-34
33	N-EtFOSA	10.40	526	169	-37	526	219	-34

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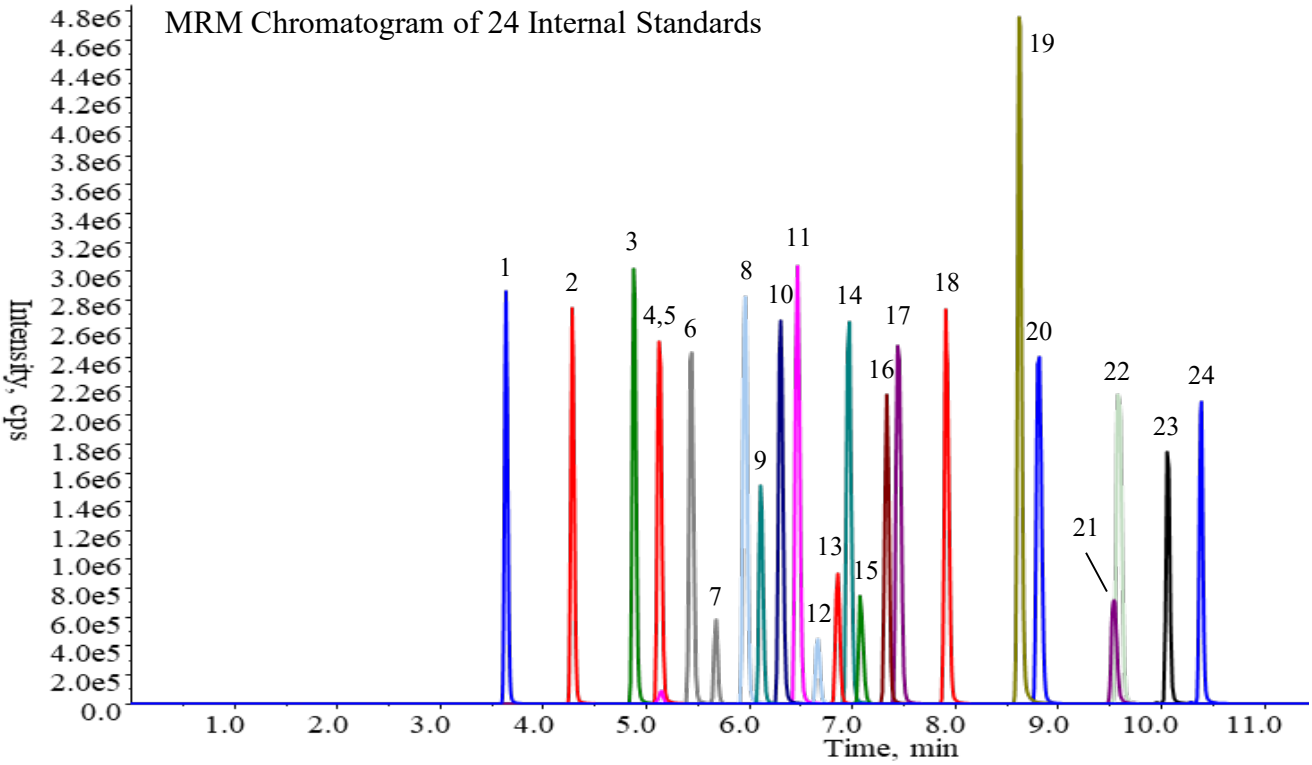

No.	Compounds	RT(min)	Transition 1		
			Q1	Q3	CE
1	$^{13}C_4$-PFBA	3.65	217	172	-14
2	$^{13}C_5$-PFPeA	4.29	268	223	-12
3	$^{13}C_5$-PFHxA	4.89	318	273	-14
4	$^{13}C_3$-PFBS	5.14	302	80	-64
5	$^{13}C_3$-HFPO-DA($^{13}C_3$-GenX)	5.15	332	185	-32
6	$^{13}C_4$-PFHpA	5.44	367	322	-14
7	$^{13}C_2$-6:2 FTSA	5.69	429	81	-72
8	$^{13}C_8$-PFOA	5.97	421	376	-14
9	$^{13}C_2$-8:2 FTUCA	6.12	459	394	-18
10	$^{13}C_3$-PFHxS	6.31	402	80	-84
11	$^{13}C_9$-PFNA	6.48	472	427	-16
12	$^{13}C_2$-8:2 FTSA	6.67	529	81	-82
13	d_3-N-MeFOSAA	6.87	573	419	-28
14	$^{13}C_6$-PFDA	6.98	519	474	-16
15	d_5-N-EtFOSAA	7.09	589	419	-28
16	$^{13}C_8$-PFOS	7.34	507	80	-86
17	$^{13}C_7$-PFUnDA($^{13}C_7$-PFUnA)	7.46	570	525	-16
18	$^{13}C_2$-PFDoDA($^{13}C_2$-PFDoA)	7.92	615	570	-18
19	$^{13}C_8$-FOSA($^{13}C_8$-PFOSA)	8.63	506	78	-85
20	$^{13}C_2$-PFTeDA($^{13}C_2$-PFTeA)	8.82	715	670	-20
21	$^{13}C_4$-8:2 diPAP	9.55	993	97	-112
22	$^{13}C_2$-PFHxDA	9.59	815	770	-24
23	d_3-N-MeFOSA	10.10	515	169	-37
24	d_5-N-EtFOSA	10.40	531	169	-37