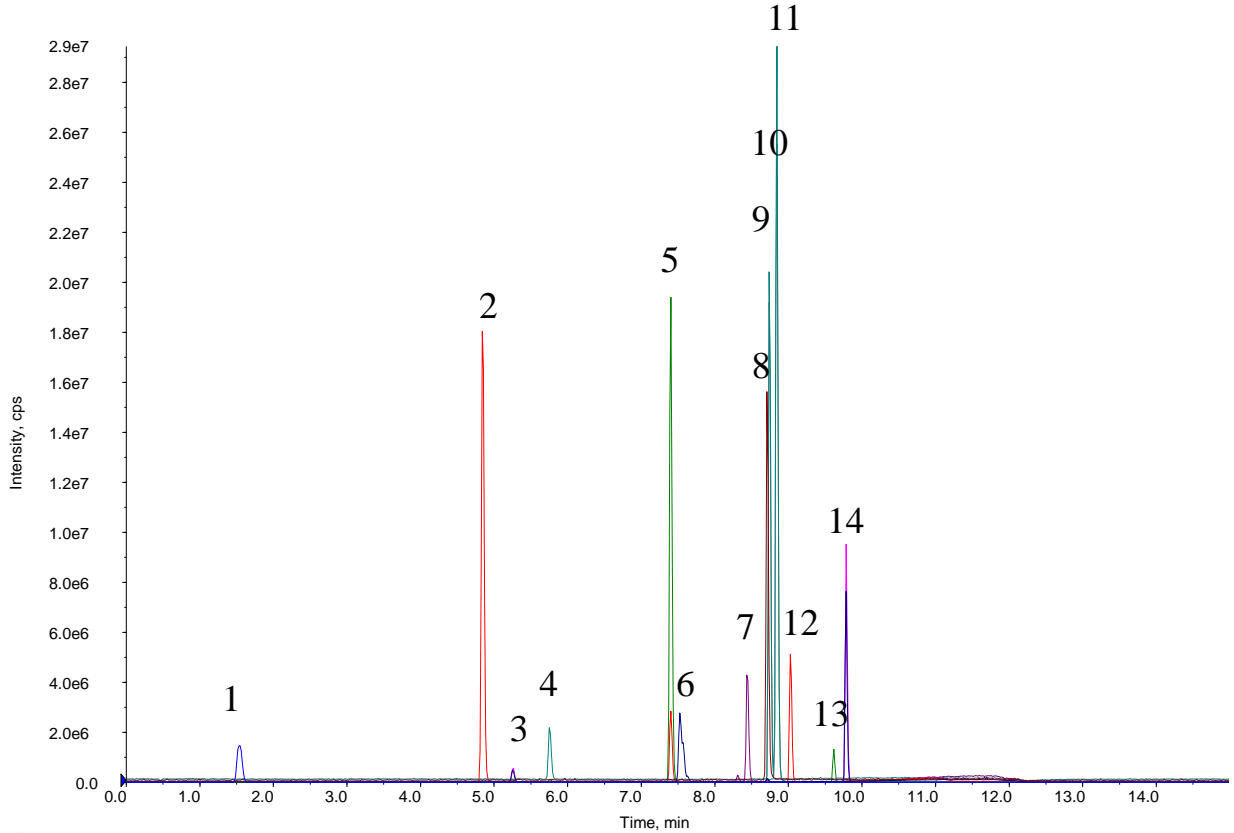


## Analysis of Phosphate ester flame retardants (PFRs)



### Conditions

- System** : Exion HPLC system  
QTRAP 6500+ (Sciex)
- Column** : InertSustainSwift C18 (GL Sciences Inc.)  
(1.9 μm, 100 x 2.1 mm I.D.)
- Column Cat. No. :** 5020-88230
- Delay Column** : Delay Column for PFAS (GL Sciences Inc.)  
(30 x 3.0 mm I.D.) x 2 columns
- Column Cat. No. :** 5020-90005
- Eluent** : A) CH<sub>3</sub>OH  
: B) 0.1 % CH<sub>3</sub>COOH in H<sub>2</sub>O

**Analyte: each 50 μg/L**

No.	Analyte	Q1	Q3
1	Trimethyl phosphate	TMP	141 109
2	Triethyl phosphate	TEP	183 99
3	Diphenyl phosphate	DiPhP	251 77
4	Tris(2-chloroethyl) Phosphate	TCEP	285 63
5	Tripropyl phosphate	TPP	225 99
6	Tris(1-chloro-2-propyl) phosphate (Tris(2-chloro-1-methylethyl) Phosphate)	TCPP	327 251
7	Tris(1,3-dichloro-2-propyl) phosphate	TDCPP	431 99
8	Tris(2-ethylhexyl) phosphate	TEHP	435 99
9	Triphenyl phosphate	TPhP	327 152
10	Triisobutyl phosphate	TiBP	267 99
11	Tributyl phosphate	TBP	267.2 99
12	Tris(2-butoxyethyl) Phosphate	TBEP	399 45
13	Tricresyl phosphate	TCP	369 91
14	2-Ethylhexyl Diphenyl Phosphate	DPEHP	251.2 77

Time (min)	A%	B%
0.0	10	90
10.0	100	0
11.0	100	0
11.1	10	90
15.0	10	90

- Flow rate** : 0.6 mL/min
- Col. Temp.** : 40 °C
- Detection** : LC/MS/MS  
(QTRAP 6500+ : ESI, Positive, SRM)  
CUR CAD IS TEM GS1 GS2  
10 5 5500 500 20 20

- Injection Vol.** : 2 μL
- Sample** : Standard