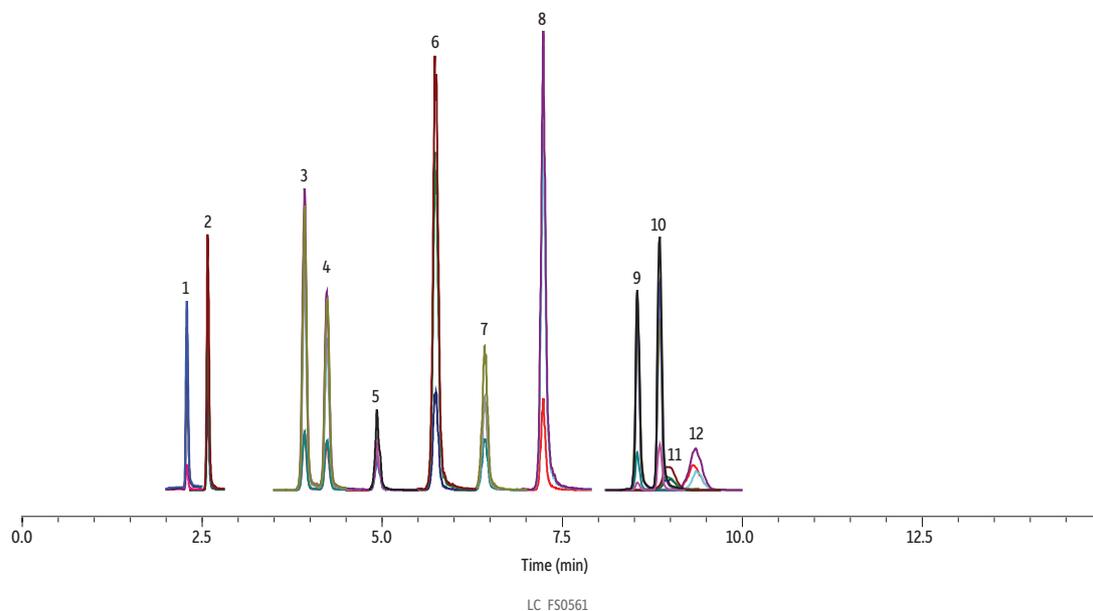


# Phthalates on Raptor Inert Biphenyl



Peaks	Retention Time (min)	Precursor Ion	Product Ion 1	Product Ion 2
1. Dimethyl phthalate (DMP)	2.44	195.00	163.10	133.10
2. Diethyl phthalate (DEP)	2.55	223.00	149.10	177.10
3. Diisobutyl phthalate (DIBP)	3.95	279.00	149.15	205.10
4. Dibutyl phthalate (DBP)	4.39	279.00	149.05	205.00
5. Benzyl butyl phthalate (BBP)	4.99	313.00	149.25	205.10
6. Dipentyl phthalate (DPP)	5.78	307.00	149.15	219.00
7. Dicyclohexyl phthalate (DCHP)	6.45	331.00	167.10	249.05
8. Dihexyl phthalate (DHXP)	7.55	335.00	149.05	233.00
9. Bis(2-ethylhexyl) phthalate (DEHP)	8.57	391.00	149.05	167.10
10. Di-n-octyl phthalate (DNOP)	8.97	419.00	127.00	275.00
11. Diisononyl phthalate (DINP)	9.01	391.20	261.20	149.10
12. Diisodecyl phthalate (DIDP)	9.48	447.00	289.00	149.20

**Column** Raptor Inert Biphenyl (cat.# 9309A52-T)  
 Dimensions: 50 mm x 2.1 mm ID  
 Particle Size: 2.7 µm  
 Pore Size: 90 Å  
 Guard Column: Raptor Inert Biphenyl EXP guard column cartridge 5 mm, 2.1 mm ID, 2.7 µm (cat.# 9309A0252-T)  
 Temp.: 30 °C

**Standard/Sample**  
 Diluent: 50:50 Water, 0.5% acetic acid:methanol  
 Conc.: 100 ng/mL  
 Inj. Vol.: 5 µL

**Mobile Phase**  
 A: Water, 0.5% acetic acid  
 B: Methanol

Time (min)	Flow (mL/min)	%A	%B
0.00	0.5	70	30
1.00	0.5	70	30
1.01	0.5	30	70
4.00	0.5	25	75
6.00	0.5	20	80
7.00	0.5	15	85
10.00	0.5	10	90
11.00	0.5	0	100
13.00	0.5	0	100
13.01	0.5	70	30
15.00	0.5	70	30

Max Pressure: 579 bar  
**Detector** Shimadzu 8060 LC-MS/MS  
 Ion Source: Electrospray  
 Ion Mode: ESI+  
 Mode: MRM  
**Instrument** Shimadzu Nexera X2  
**Sample Preparation** Standards were aliquoted into 2 mL, screw-thread vials (cat.# 21143) and capped with short-cap, screw-vial closures (cat.# 24498).  
**Notes** A PFAS delay column (cat.# 27854) was installed before the injector.