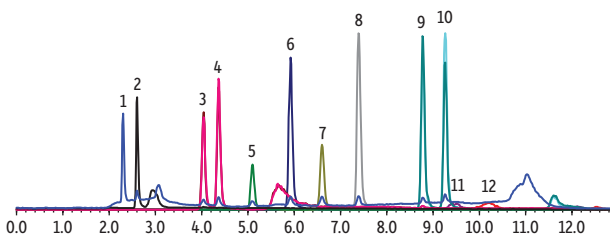
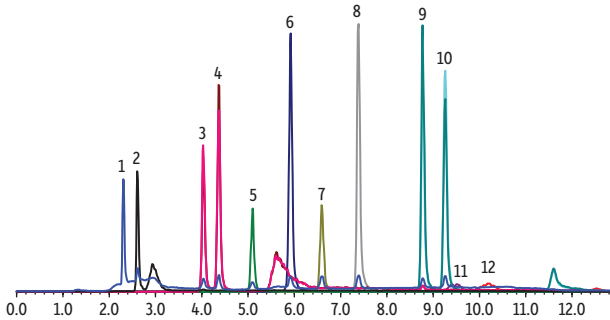


Comparison of Phthalates on Stainless-Steel vs. Inert Column Hardware

Traditional



Inert



Time (min)
LC_FS0559

Peaks	tr (min)	Peak Area (Inert)	Peak Area (Stainless Steel)	Area % Increase	Peak Height (Inert)	Peak Height (Stainless Steel)	Height % Increase
1. Dimethyl phthalate (DMP)	2.31	19117584	16549407	16	5860034	4955690	18
2. Diethyl phthalate (DEP)	2.61	16492272	14495503	14	4702220	4460997	5
3. Diisobutyl phthalate (DIBP)	4.03	34125815	24265390	41	7399474	4540767	63
4. Dibutyl phthalate (DBP)	4.54	44333872	30394746	46	10433691	5916089	76
5. Benzyl butyl phthalate (BBP)	5.10	15407991	10507922	47	3030887	1720677	76
6. Dipentyl phthalate (DPP)	5.92	65583799	41261728	59	12955451	7478301	73
7. Dicyclohexyl phthalate (DCHP)	6.86	20403823	17316104	18	3496112	2718628	29
8. Dihexyl phthalate (DHXP)	7.38	71497192	54665430	31	13861929	9147576	52
9. Bis(2-ethylhexyl) phthalate (DEHP)	8.77	67464066	49840368	35	13916016	8943076	56
10. Di-n-octyl phthalate (DNOP)	9.26	14276344	11001910	30	2316152	1905245	22
11. Diisononyl phthalate (DINP)	9.41	4499039	3858257	17	260635	226840	15
12. Diisodecyl phthalate (DIDP)	10.21	3963064	3468306	14	220974	182857	21

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.