



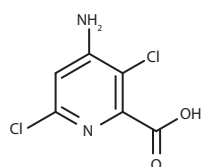
HERBICIDES BY LC/MS

INTRODUCTION

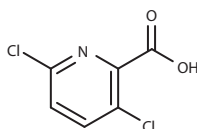
This application shows the separation of selected herbicides from the picolinic acid and phenoxyacetic acid family.

Substance: Aminopyralid, CAS Number 150114-71-9
 Clopyralid, CAS Number 1702-17-6
 Picloram, CAS Number 1918-02-1
 Bentazone, CAS Number 25057-89-0
 MCPA, CAS Number 94-74-6
 MCPP (Mecoprop), CAS Number 93-65-2
 2,4-DB (4-(2,4-Dichlorophenoxy)butanoic acid), CAS Number 94-82-6

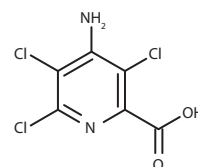
Formula:



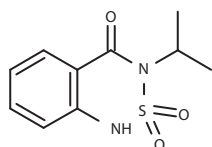
Aminopyralid



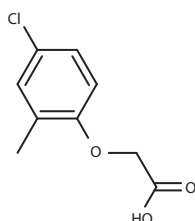
Clopyralid



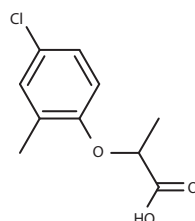
Picloram



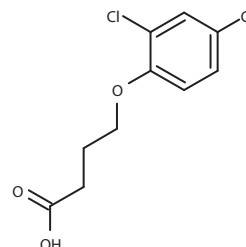
Bentazone



MCPA



MCPP



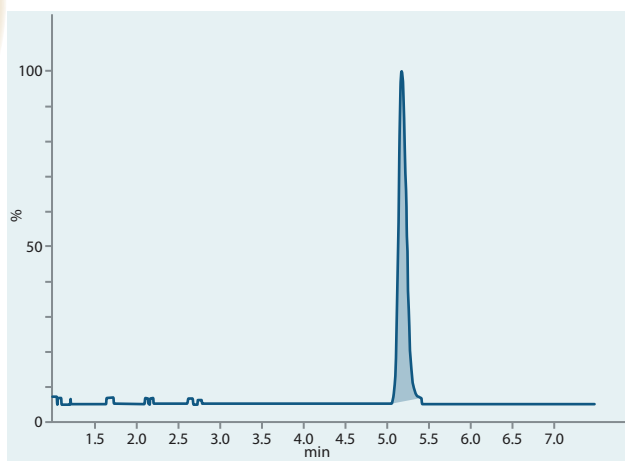
2,4-DB

Sample	10 ml sample + 100µl ISTD (10 ng/ml) + 100 µl 98% formic acid, filtration through 0.22µm RC filter
Column	ARION® Plus C18, 1.7 µm
Dimensions	50 mm × 2.1 mm
Part number	ARI-5720-BG21
Mobile phase	0.005% formic acid/methanol 98/2 (v/v) Isocratic elution
Flow rate	0.4 ml/min
Autosampler Temperature	10 °C
Column Temperature	45 °C
Detection	LC/MS/MS

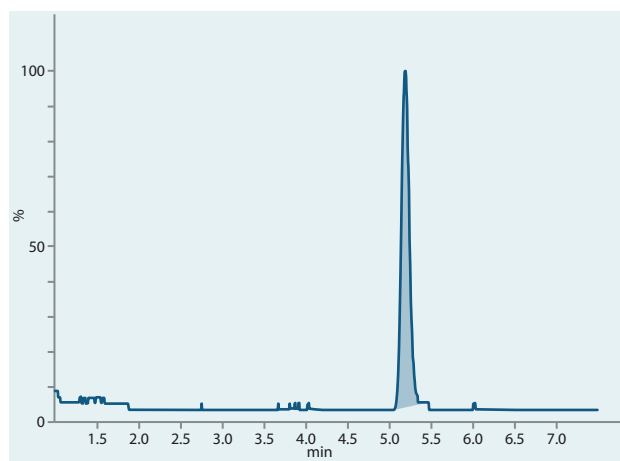
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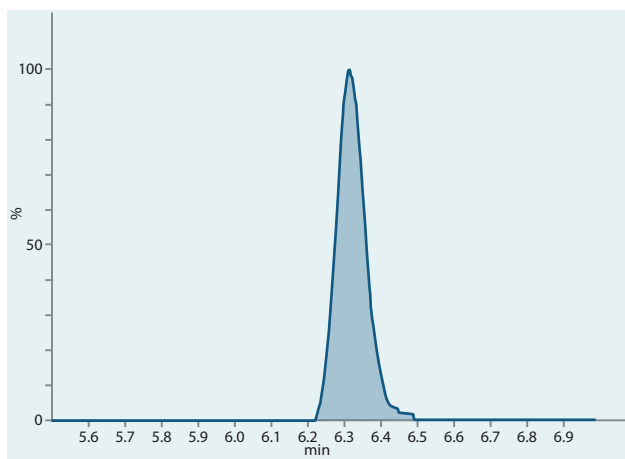
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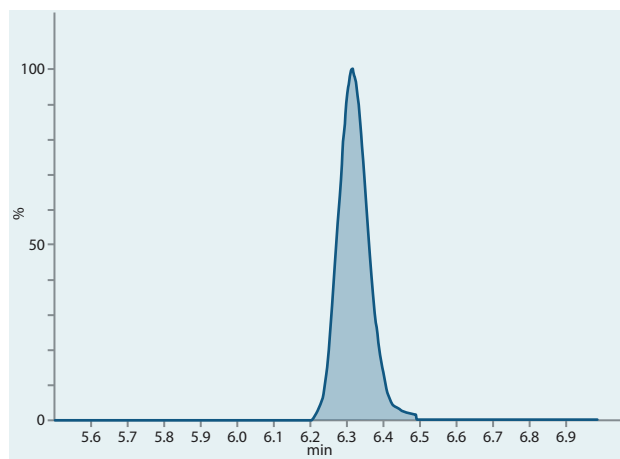
Picloram (241 -> 168)



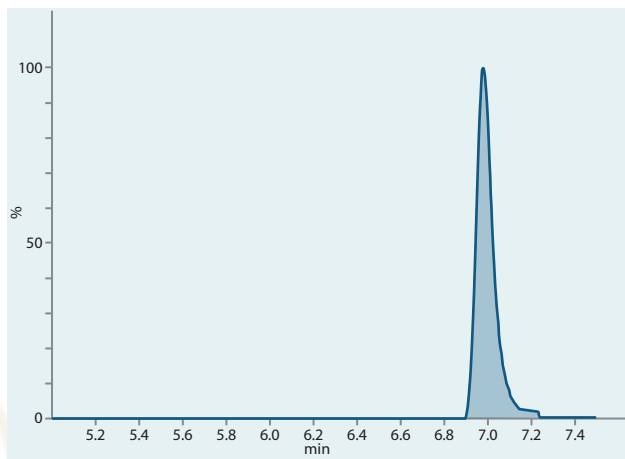
Picloram (241 -> 195)



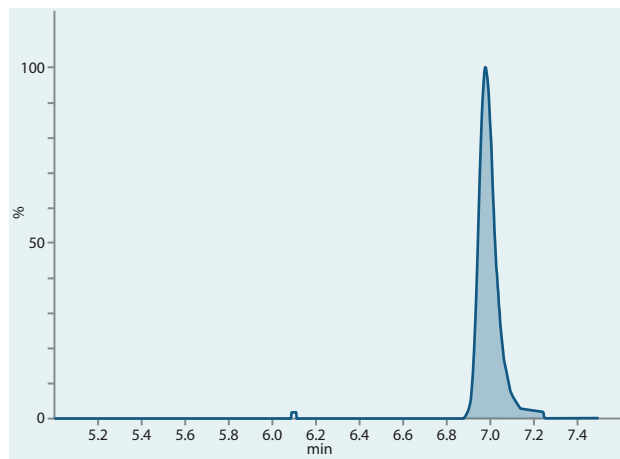
Bentazone (239 -> 132)



Bentazone (239 -> 175)



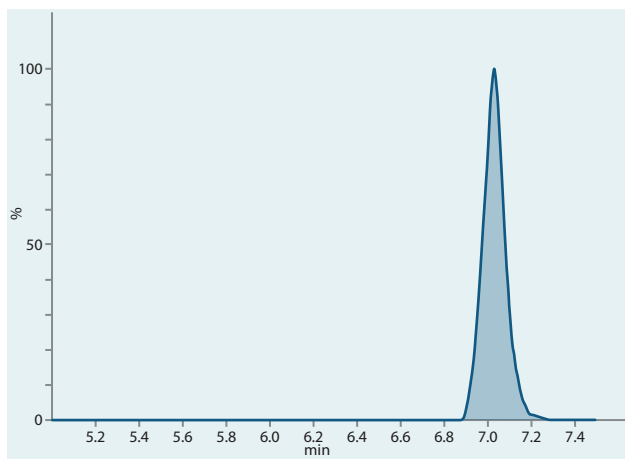
MCPA (199 -> 140.9)



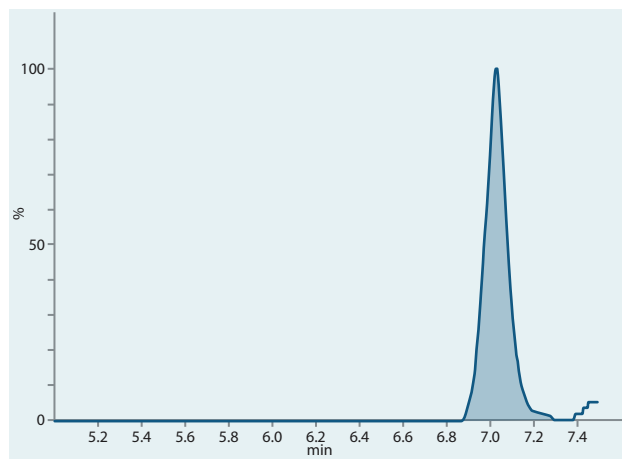
MCPA (201 -> 143)



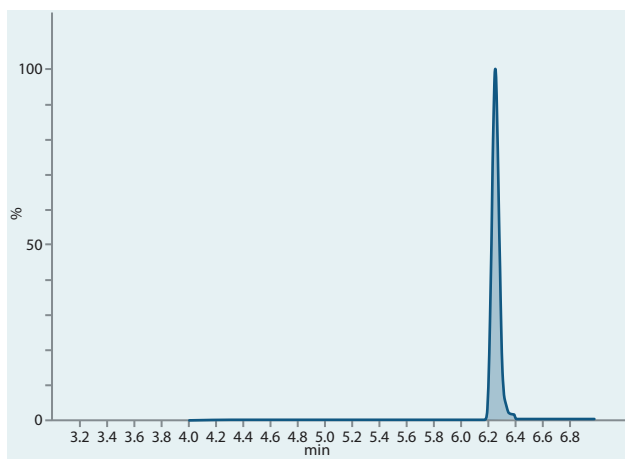
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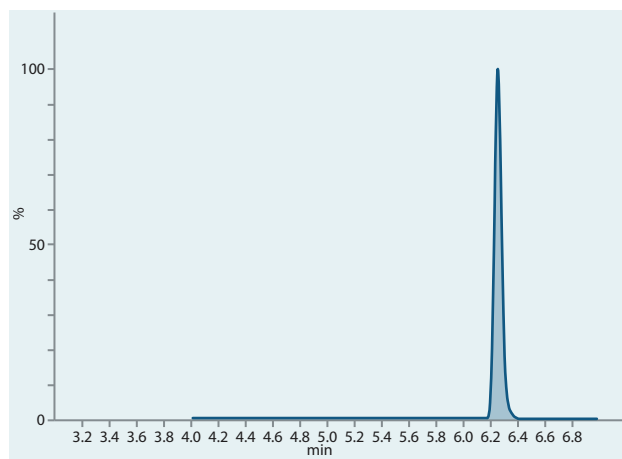
MCPP (213 -> 140.9)



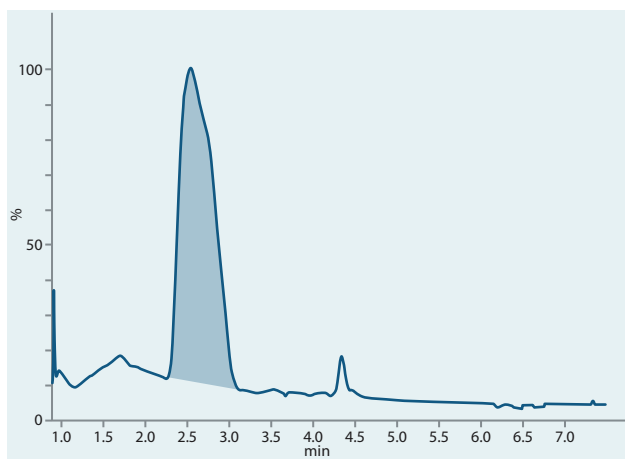
MCPP (215 -> 143)



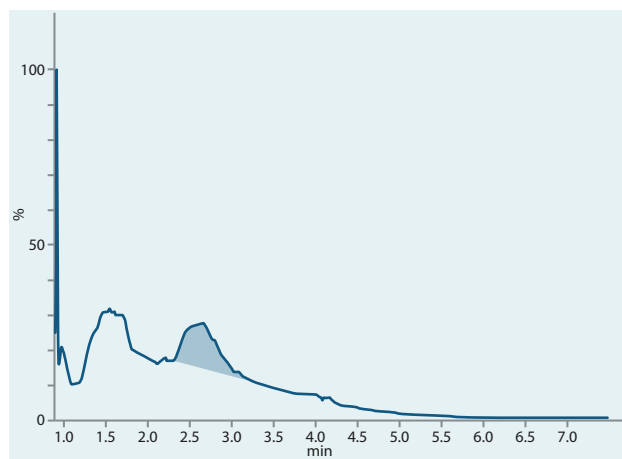
2,4-DB (161 -> 125)



2,4-DB (163 -> 127)



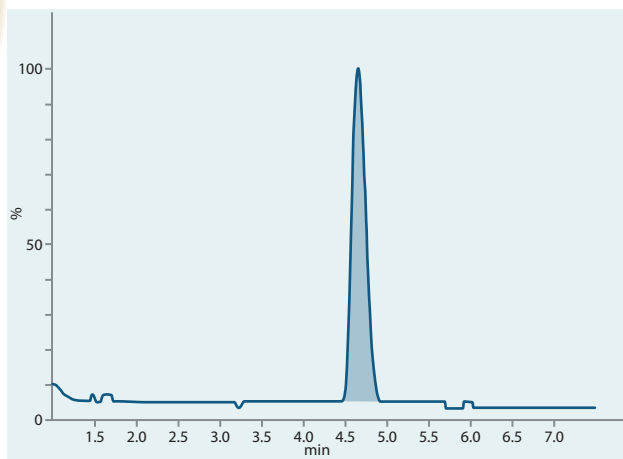
Aminopyralid (206.7 -> 160.9)



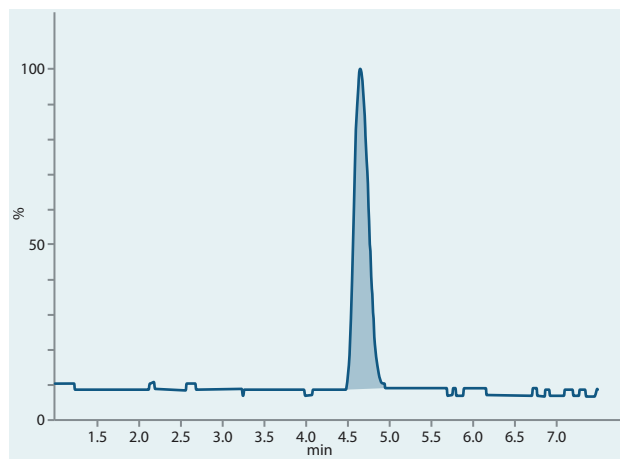
Aminopyralid (206.7 -> 188.9)



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Clopyralid (192 -> 146)



Clopyralid (192 -> 110)