

HPLC Application

ID No.: 25270

Dicamba and Acidic Herbicides LC-MS/MS in Agricultural Field Samples

Column: Kinetex[®] F5 2.6 μ m 100 Å, LC Column 100 x 3.0 mm, Ea

Dimensions: 100 x 3 mm ID

Order No: 00D-4723-Y0

Elution Type: Gradient

Eluent A: water

Eluent B: 0.2% formic acid in methanol

Gradient Profile:	Step No.	Time (min)	Pct A	Pct B
	1	0	98	2
	2	1	60	40
	3	4	48	52
	4	12	15	85
	5	13.5	10	90
	6	15.5	10	90
	7	15.6	98	2

Flow Rate: 0.5 mL/min

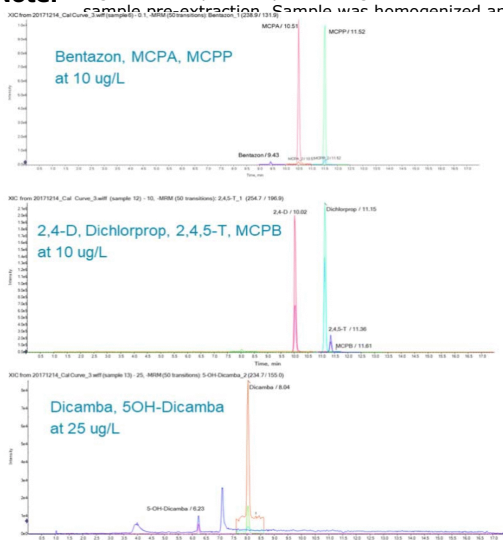
Col. Temp.: 30 °C

Detection: LC/MS/MS @ (ambient)

Analyst Note: 5 g of soil sample or soybean foliage were collected from impacted and non-impacted agricultural field sites. Internal standard was added to the sample pre-extraction. Sample was homogenized and extracted with formic acid fortified acetonitrile. Sample was shaken for 15 minutes then



Products used in this application:



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ANALYTES:

1 13C6-DCSA	41 Dichlorprop_3
2 2,4,5-T_1	42 Dichlorprop_4
3 2,4,5-T_2	43 MCPA_1
4 2,4,5-T_3	44 MCPA_2
5 2,4,5-TP_1	45 MCPA_3
6 2,4,5-TP_2	46 MCPB_1
7 2,4-D_1	47 MCPB_2
8 2,4-D_2	48 MCPP_1
9 2,4-D_3	49 MCPP_2
10 2,4-D_4	50 MCPP_3
11 2,4-DB_1	
12 2,4-DB_2	
13 2,4-DB_3	
14 2,4-DB_4	
15 5-OH-Dicamba_1	
16 5-OH-Dicamba_2	
17 5-OH-Dicamba_3	
18 5-OH-Dicamba_4	
19 Acifluorfen_1	
20 Acifluorfen_2	
21 Acifluorfen_3	
22 Acifluorfen_4	
23 Bentazon_1	
24 Bentazon_3	
25 Bentazon_4	
26 d3-Dicamba_1	
27 d3-Dicamba_2	
28 DCGA_1	
29 DCGA_2	
30 DCGA_3	
31 DCGA_4	
32 DCSA_1	
33 DCSA_2	
34 DCSA_3	
35 DCSA_4	
36 Dicamba_1	
37 Dicamba_2	
38 Dicamba_3	
39 Dichlorprop_1	
40 Dichlorprop_2	

