



Method name	LC-MS/MS-ESI(+)-3							
Instrument name	LC-MS/MS							
Chromatographic method	LC							
Extraction method	QuEChERS							
Clean-up	no							
Use of AP (analyte protectant)	no							
Internal standard(s)	Chlorpyrifos D ₁₀							
Instrument parameters								
Ionisation mode	ESI(+)							
Column	Phenomenex Synergi 4 μ Hydro-RP; 150x2 mm							
Pre-column	Aqua C18 125A 4mm x 2mm (Phenomenex AJO-7510)							
Column temperature (°C)	40							
Eluent A1	5 mmol NH ₄ .formiate in purified H ₂ O							
Eluent B1	5 mmol NH ₄ .formiate in methanol (MeOH)							
Gradient	%A	Flow [mL/min]		Time [min]				
	100	0.15		0				
	30	0.15		3				
	15	0.3		6				
	10	0.3		9				
	10	0.3		18.5				
	100	0.3		19				
	100	0.3		28				
Injection volume (μ L)	2							
Dilution	automatically diluted with 10 μ l of mobile phase A1 during injection procedure							
Aquired mass transitions	Target		Qualifier 1		Qualifier 2		Qualifier 3	
	Q1 (m/z)	Q3 (m/z)	Q1 (m/z)	Q3 (m/z)	Q1 (m/z)	Q3 (m/z)	Q1 (m/z)	Q3 (m/z)
Chlorpyrifos D ₁₀ ISTD	360.1	199.0						
Acephate	184.1	142.9	184.1	124.8				
Aldicarb	208.2	115.9	208.2	88.9				
Aldicarb-sulfone	223.2	147.9	223.2	86.1				
Aldicarb-sulfoxide	207.2	132.0	207.2	88.9				
Amitraz	294.3	163.2	294.3	121.9				
Amitraz: N-2,4-Dimethylphenyl-N-methylformamidine*	163.1	107.1	163.1	132.1				
Azinphos-methyl	318.1	132.1	318.1	260.8				
Bitertanol	338.2	269.0	338.2	69.8	338.2	99.1		
Boscalid	343.1	306.8	343.1	139.9	345.0	308.8		
Cadusafos	271.1	158.9	271.1	214.9				
Clofentezine	303.1	137.9	303.1	102.0	305.1	139.9		
Cyazofamid	325.2	107.9	325.2	260.9	327.2	107.9		
Cymoxanil*	199.2	128.0	199.2	111.1	199.2	83.1		
Demeton-S-methyl	231.1	88.8	231.1	61.0				
Demeton-S-methyl-sulfone	263.0	168.9	263.0	120.8				
Demeton-S-methyl-sulfoxide	247.0	168.9	247.0	124.8				

Dichlofluanid*	333.0	122.9	335.1	225.7				
Dichlorvos	221.1	109.0	221.1	127.0	223.1	109.0		
Dicrotophos	238.1	112.0	238.1	192.9				
Dimethoate	230.1	198.8	230.1	124.9				
Disulfoton	275.1	89.0	275.1	61.0				
Disulfoton-sulfone	307.1	153.0	307.1	171.0				
Disulfoton-sulfoxide	291.1	185.0	291.1	212.9				
Ethiofencarb*	226.2	107.0	226.2	164.0				
Fenoxycarb	302.3	116.0	302.3	255.8	302.3	87.9		
Fenpyroximate	422.2	366.1	422.2	138.1				
Fensulfothion	309.1	280.8	309.1	252.9				
Fensulfothion-sulfone	325.1	268.9	325.1	297.0				
Fenthion	279.1	246.8	279.1	168.9				
Fenthion-oxon	263.1	231.0	263.1	216.0				
Fenthion-oxon-sulfoxide	279.1	264.1	279.1	104.1				
Fenthion-sulfone	311.1	278.8	311.1	108.9				
Fenthion-sulfoxide	295.1	279.7	295.1	108.9				
Fenthio-oxon-sulfone	295.0	217.0	295.0	104.0				
Formetanate	222.2	165.2	222.2	120.0				
Hexythiazox	353.1	168.0	353.1	227.7	355.1	229.8		
Indoxacarb	528.1	248.9	528.1	292.9	530.1	294.9		
Iprovalicarb	321.3	119.0	321.3	203.1				
Methamidophos	142.0	93.9	142.0	112.1	142.0	124.8		
Methidathion	303.1	145.0	303.1	84.9				
Methiocarb-sulfone*	258.1	122.0	258.1	200.9				
Methiocarb-sulfoxide*	242.1	169.9	242.1	122.1				
Methomyl	163.1	87.9	163.1	122.0				
Metrafenone	409.2	209.1	411.2	209.1				
Monocrotophos	224.2	192.9	224.2	126.9				
Naled*	380.8	127.1	382.8	127.1				
Omethoate*	214.1	182.9	214.1	124.9	214.1	154.8		
Oxamyl*	220.2	72.0	220.2	90.1				
Oxamyl-oxime	163.0	72.0	163.0	90.0				
Pymetrozine	218.3	105.0	218.3	78.0				
Pymetrozine: 3-Pyridincarboxaldehyde	108.1	80.1	108.1	53.1				
Rotenone	395.1	213.1	395.1	192.0				
Terbufos T	289.1	232.9	289.1	103.1				
Thiocyclam*	182.1	137.0	182.1	73.0				
Thiodicarb*	355.0	87.9	355.0	107.9				
Tolyfluanid*	347.0	237.8	347.0	137.1	349.0	239.8		
Tolyfluanid: DMST*	215.2	106.0	215.2	78.9				
Trichlorfon*	257.0	220.8	259.0	222.8				

*in acidic (0.4% acetic acid in acetonitrile) stock and working solution