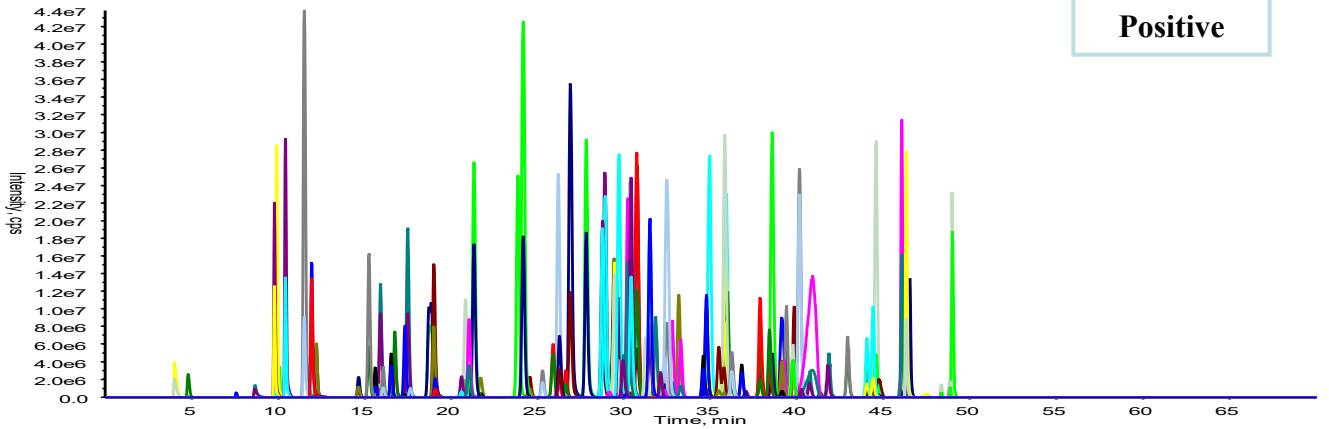
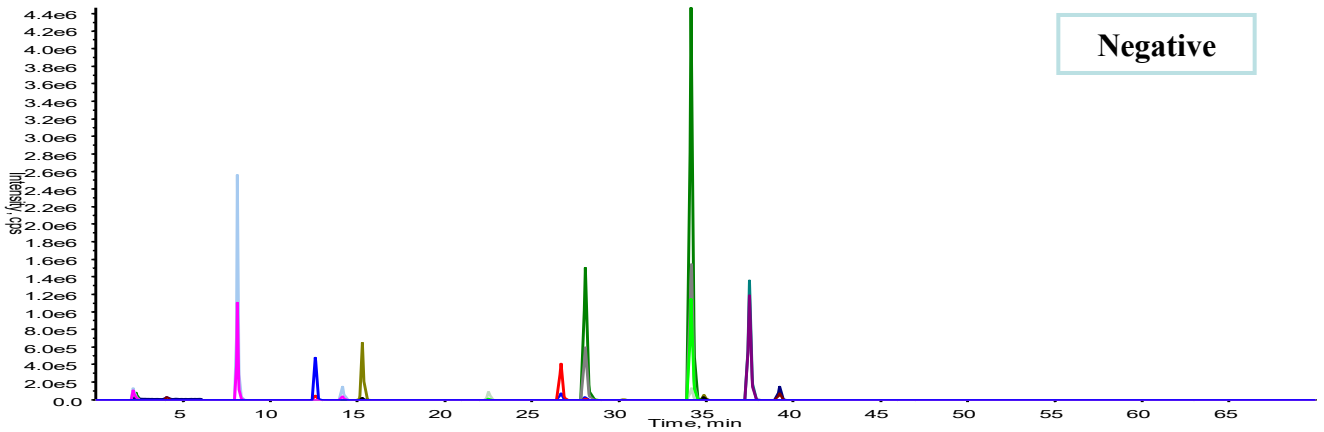


Analysis of 130 Pesticides



Positive



Negative

Conditions

- System** :ExionLC AD system
Qtrap 6500+
- Gard Column** :Gard Column for UHPLC InertSustain C18 (3µm, 10 x 2.1 mm I.D.)
- Gard Column Cat. No.** :5020-20374
- Column** :InertSustain C18 HP (3µm, 150 x 2.1 mm I.D.)
- Column Cat. No.** :5020-14415
- Eluent** :A) 5 mmol CH₃COONH₄ in CH₃OH
B) 5 mmol CH₃COONH₄ in H₂O
A/B = 10/90 -7 min – 45/55 – 35 min 80/20 – 4 min 100/0 (5 min hold) – 4 min 10/90 (10 min hold), v/v
- Flow rate** :0.2 mL/min
- Col. Temp.** :40 °C
- Detection** :LC/MS/MS (Qtrap 6500+ ESI, Postive, MRM)

CUR	CAD	IS	TEM	GS1	GS2
25	10	4500	400	70	70
- Detection** :LC/MS/MS (Qtrap 6500+ ESI, Negative, MRM)

CUR	CAD	IS	TEM	GS1	GS2
25	10	-4500	400	70	70
- Injection Vol.** :30 µL
- Sample** :Pesticides (10 µg/L)

Positive

No.	Compound	R.T.(min)	Transition	No.	Compound	R.T.(min)	Transition	No.	Compound	R.T.(min)	Transition	
1	Metamidophos	4.1	141.9 ->	94	40 Trichlophos Methyl Oxon	26.26	285.1 ->	109	79 Pyraclofos	37.91	361.1 ->	138.1
2	Acefate	4.82	184.1 ->	142.9	41 Azoxystrobin	26.89	404.3 ->	344	80MPP	37.92	279 ->	247
3	Methomyl	7.58	163.4 ->	88.1	42 Isoxathione Oxon	27.81	298.2 ->	270	81 Phosalone	38.48	368.2 ->	111
4	Tefuriltrion	9.79	460.1 ->	340.9	43 Mepronil	28.77	270.2 ->	228.1	82 Pencycuron	38.55	329.1 ->	218
5	MPP Oxon Sulfoxide	9.86	279.1 ->	264	44 Daimuron	28.78	269.2 ->	91.1	83 Butamifos	39.17	333.1 ->	180
6	Flazasulfon	9.92	408.2 ->	182	45 Flatnyl	28.89	324.1 ->	242.1	84 Thiobencarb	39.18	258.2 ->	89
7	Trichlorfon	9.94	259.1 ->	109	46 Molinate	29.16	188.2 ->	126.1	85 Isofenphos	39.27	346.2 ->	287
8	Dimethoate	10.08	230.3 ->	124.9	47 Isoprothiolane	29.47	291.2 ->	230.9	86 Cadusafos	39.4	271 ->	158.9
9	MPP Oxon Sulfone	10.43	312.2 ->	294.9	48 Butamifos Oxon	29.49	317.2 ->	243.9	87 Terbutcarb	39.79	295.2 ->	222.1
10	MBC	11.52	191.9 ->	132	49 Oryastrobin	29.71	392.2 ->	116	88 Isoxation	39.91	314.2 ->	104.9
11	Tricyclazole	11.95	190 ->	136	50 Cafenstrole	29.72	351.1 ->	72.1	89 Befenox	40.08	359.2 ->	310
12	Halosulfuron-methyl	12.22	435.2 ->	182.1	51 Z-Dimethylvinphos	29.95	333 ->	127	90 Piperophos	40.2	354.2 ->	255
13	Quinoclamine	14.65	208.1 ->	105	52 Malathion	30.05	348.2 ->	98.8	91 Tolchlofos-methyl	40.26	301 ->	269
14	Pyroquilon	14.66	174.2 ->	117	53 Mefenacet	30.23	299.1 ->	148	92 Disulfoton	40.57	275.1 ->	89
15	Thiophanate-methyl	15.25	343.1 ->	311	54 Isofenphos Oxon	30.33	330.2 ->	229	93 Dimepiperate	40.73	264.2 ->	146.1
16	Propoxur	15.62	210 ->	111	55 Pyridaphention	30.41	341.1 ->	189	94 Pterilachlor	40.93	312.2 ->	252
17	Dichlorvos	15.81	221.1 ->	109	56 Methylidaimuron	30.75	269.1 ->	134	95 Chlorpyrifos methyl	41.41	322.1 ->	124.9
18	Carbofuran	15.92	222.2 ->	165.1	57 Paclobutrazol	31.25	294.2 ->	69.9	96 ENP	41.84	324.1 ->	295.9
19	Simazine	16.07	202.3 ->	124.1	58 Fenitrothion	31.47	278.4 ->	125	97 Benfuracarb	42.95	411.2 ->	252.1
20	MalaOxon	16.54	315.2 ->	127	59 Bromobutide	31.8	314.1 ->	196	98 Cinmethylin	44.02	292.3 ->	105
21	Fenitrothione Oxon	16.75	262 ->	216	60 Napropamide	31.82	272.3 ->	129.1	99 Dithiopyr	44.05	402.2 ->	354.1
22	MPP Sulfoxide	17.33	295.1 ->	108.9	61 E-Dimethylvinphos	32.11	333 ->	127	100 Esprocarb	44.09	266.2 ->	91
23	Bensulfuron-methyl	17.48	411.2 ->	182	62 Uniconazole P	32.34	292.2 ->	70	101 Torfenpyrade	44.39	384.2 ->	197
24	NAC	17.64	202.2 ->	127	63 Thenylchlor	32.35	324.1 ->	127	102 Buprofezine	44.57	306.2 ->	57.1
25	Fosthiazate	18.8	284.2 ->	228	64 Metolachlor	32.47	284.2 ->	176.1	103 Butachlor	44.7	312.2 ->	57.1
26	MPP Sulfone	19.01	328.2 ->	311	65 Fenoxanylin	32.9	329.2 ->	302	104 Alachlor	44.75	270.1 ->	238
27	Thiodicarb	19.09	355.3 ->	163	66 Chlorpyrifos Oxon	33.15	336.2 ->	279.8	105 Dichlofenthion	45.96	315 ->	258.8
28	Isoprocarb	20.62	194.1 ->	94.9	67 SAP	34.59	398.2 ->	313.8	106 Pyributicarb	46.05	331.2 ->	181
29	Atrazine	20.84	216.2 ->	174	68 Iprobenfos	34.75	289.1 ->	204.9	107 Pyriprocyfen	46.31	322.2 ->	78
30	Simetryn	21.05	214.2 ->	124.1	69 Etridiazol	34.75	247 ->	205	108 Chlorpyrifos	46.38	352 ->	200
31	Metaraxyl	21.33	280.2 ->	192	70 Dimethametryn	34.94	256.3 ->	186.1	109 Pendimethalin	46.56	282.2 ->	212.1
32	DCMU	21.72	233.2 ->	72	71 Propiconazole	35.51	342.2 ->	159	110 Propargite	46.57	368.2 ->	231.2
33	Benfuresate	23.45	274 ->	163	72 Carpdpamid	35.71	334.2 ->	139	111 Benfluralin	46.8	336.2 ->	236.1
34	Daiazinon Oxon	23.86	289.2 ->	153.1	73 Propaphos	35.85	305.2 ->	221	112 Trifluralin	46.81	336.3 ->	236
35	MPP Oxon	24.17	263.2 ->	231	74 Anilofos	35.92	368.1 ->	198.9	113 Cypermetryn	47.51	433.1 ->	416.1
36	Methidathion	24.55	320.2 ->	145	75 Edifenphos	36.03	311.1 ->	282.9	114 cis-Permetryn	48.37	408 ->	355
37	Fenobucarb	25.28	208.2 ->	94.9	76 Pyrazoxyfen	36.24	403.1 ->	91.1	115 trans-Permetryn	48.86	408 ->	355
38	Siduron	25.89	233 ->	137	77 Phenthoate	36.79	321.1 ->	247	116 Ethofenprox	49.03	394.3 ->	177.1
39	ENP Oxon	26.2	308.1 ->	93.9	78 Diazinon	37.91	305.2 ->	169.1				

Negative

No.	Compound	R.T.(min)	Transition	
1	Fosetyl	2.17	109 ->	81
2	Asulam	2.32	228.9 ->	132.9
3	Darapon	4.11	140.8 ->	96.7
4	Bentazon	8.13	238.9 ->	131.9
5	2,4-D	12.6	218.9 ->	161
6	Triclopyr	14.15	253.9 ->	195.9
7	MCP	15.28	213 ->	140.9
8	Cyanophos	22.55	227.8 ->	117.8
9	Etyprol	26.7	394.9 ->	329.7
10	Propyzamide	28.1	253.8 ->	227.8
11	Procymidone	28.11	316 ->	255.6
12	Chlorothalonil	28.64	244.8 ->	174.7
13	Fthalide	30.29	270.8 ->	243
14	Fipronil	34.16	434.9 ->	329.8
15	Benzoepin sulfate	37.52	420.8 ->	96.6