

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW062918\
 Data File : VW003666.D
 Acq On : 29 Jun 2018 17:41
 Operator : SY/AP
 Sample : J3762-03
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT3-2018

Manual Integrations
 APPROVED

apatel
 7/2/2018 10:30:58 AM

Quant Time: Jun 30 04:45:39 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W061318S.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 16 05:18:54 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	183437	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	300346	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	279703	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	142478	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	115918	58.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	116.68%	
35) Dibromofluoromethane	7.88	113	99174	53.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.28%	
50) Toluene-d8	10.33	98	378331	51.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.24%	
62) 4-Bromofluorobenzene	12.62	95	131918	50.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.74%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.00	85	1865	3.36	ug/l	85
3) Chloromethane	2.20	50	3708	2.65	ug/l	97
4) Vinyl Chloride	2.36	62	5165	2.53	ug/l	99
5) Bromomethane	2.78	94	3362	2.48	ug/l	91
6) Chloroethane	2.92	64	3083	2.17	ug/l	96
7) Trichlorofluoromethane	3.25	101	2869	2.34	ug/l	95
8) Diethyl Ether	3.67	74	2789	3.10	ug/l #	30
9) 1,1,2-Trichlorotrifluoroet	4.06	101	4344	2.56	ug/l	97
10) Methyl Iodide	4.26	142	6027	2.35	ug/l #	64
11) Tert butyl alcohol	5.20	59	1973m	18.52	ug/l	
12) 1,1-Dichloroethene	4.03	96	4105m	2.47	ug/l	
13) Acrolein	3.90	56	1213	7.96	ug/l #	77
14) Allyl chloride	4.66	41	7048	2.45	ug/l	96
15) Acrylonitrile	5.38	53	4693	12.69	ug/l	96
16) Acetone	4.13	43	9098	21.83	ug/l	91
17) Carbon Disulfide	4.37	76	12431	2.53	ug/l	98
18) Methyl Acetate	4.68	43	3984	4.03	ug/l	91
19) Methyl tert-butyl Ether	5.43	73	6904	2.22	ug/l #	88
20) Methylene Chloride	4.91	84	18042	7.04	ug/l	98
21) trans-1,2-Dichloroethene	5.42	96	4379	2.42	ug/l #	92
22) Diisopropyl ether	6.31	45	11097	1.92	ug/l #	83
23) Vinyl Acetate	6.26	43	29347	8.80	ug/l #	92
24) 1,1-Dichloroethane	6.21	63	8470	2.46	ug/l	98
25) 2-Butanone	7.19	43	8362	16.14	ug/l #	88
26) 2,2-Dichloropropane	7.17	77	7025	3.06	ug/l	87
27) cis-1,2-Dichloroethene	7.18	96	4464	2.25	ug/l	81
28) Bromochloromethane	7.51	49	3118	2.18	ug/l #	99
29) Tetrahydrofuran	7.54	42	3907	12.34	ug/l	97
30) Chloroform	7.68	83	8789	2.51	ug/l	95
31) Cyclohexane	7.95	56	10745	3.35	ug/l #	54
32) 1,1,1-Trichloroethane	7.87	97	6930	2.40	ug/l	99
36) 1,1-Dichloropropene	8.09	75	6366	2.19	ug/l	98
37) Ethyl Acetate	7.27	43	3588	2.99	ug/l	97
38) Carbon Tetrachloride	8.07	117	6467	2.27	ug/l	94

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.34	83	7033	2.10	ug/l	92
40) Benzene	8.33	78	18729	2.34	ug/l	99
41) Methacrylonitrile	7.48	41	1294	1.75	ug/l #	81
42) 1,2-Dichloroethane	8.40	62	6041	2.41	ug/l	98
43) Isopropyl Acetate	8.43	43	5338	2.24	ug/l	93
44) Trichloroethene	9.10	130	4850	2.29	ug/l	98
45) 1,2-Dichloropropane	9.37	63	4650	2.28	ug/l	97
46) Dibromomethane	9.46	93	2540	2.44	ug/l	95
47) Bromodichloromethane	9.65	83	6112	2.29	ug/l #	99
48) Methyl methacrylate	9.45	41	2278	2.03	ug/l #	80
49) 1,4-Dioxane	9.47	88	780	49.57	ug/l #	1
51) 4-Methyl-2-Pentanone	10.21	43	13260	10.91	ug/l	99
52) Toluene	10.39	92	11950	2.33	ug/l	99
53) t-1,3-Dichloropropene	10.61	75	5742	2.10	ug/l	91
54) cis-1,3-Dichloropropene	10.07	75	6132	1.97	ug/l	91
55) 1,1,2-Trichloroethane	10.79	97	3670	2.50	ug/l	95
56) Ethyl methacrylate	10.65	69	3279	1.84	ug/l #	85
57) 1,3-Dichloropropane	10.94	76	5786	2.28	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.93	63	7149	8.94	ug/l	97
59) 2-Hexanone	10.98	43	8932	10.52	ug/l	94
60) Dibromochloromethane	11.13	129	3645	2.09	ug/l	97
61) 1,2-Dibromoethane	11.24	107	3173	2.28	ug/l	96
64) Tetrachloroethene	10.87	164	4254	2.27	ug/l	95
65) Chlorobenzene	11.66	112	12510	2.15	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.74	131	4273	2.09	ug/l	96
67) Ethyl Benzene	11.74	91	19724	1.91	ug/l	97
68) m/p-Xylenes	11.85	106	13968	3.56	ug/l	94
69) o-Xylene	12.17	106	6581	1.81	ug/l	96
70) Styrene	12.18	104	9805	1.62	ug/l	97
71) Bromoform	12.35	173	2053	1.94	ug/l #	98
73) Isopropylbenzene	12.47	105	17022	1.72	ug/l	100
74) N-amyl acetate	12.28	43	4532	2.01	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.72	83	3906	2.33	ug/l	93
76) 1,2,3-Trichloropropane	12.77	75	3403m	2.79	ug/l	
77) Bromobenzene	12.75	156	5032	2.18	ug/l	94
78) n-propylbenzene	12.81	91	24045	1.98	ug/l	98
79) 2-Chlorotoluene	12.90	91	14024	2.05	ug/l	100
80) 1,3,5-Trimethylbenzene	12.95	105	14791	1.78	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.52	75	1022m	1.93	ug/l	
82) 4-Chlorotoluene	12.99	91	14395	1.98	ug/l	98
83) tert-Butylbenzene	13.21	119	12518	1.77	ug/l	99
84) 1,2,4-Trimethylbenzene	13.26	105	14611	1.71	ug/l	98
85) sec-Butylbenzene	13.39	105	18351	1.74	ug/l	99
86) p-Isopropyltoluene	13.51	119	14526	1.56	ug/l	96
87) 1,3-Dichlorobenzene	13.51	146	9845	2.08	ug/l	98
88) 1,4-Dichlorobenzene	13.58	146	10164	2.16	ug/l	84
89) n-Butylbenzene	13.83	91	16887	1.86	ug/l	94
90) Hexachloroethane	14.10	117	3663	2.18	ug/l	92
91) 1,2-Dichlorobenzene	13.88	146	8904	2.14	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.49	75	726	2.57	ug/l	90

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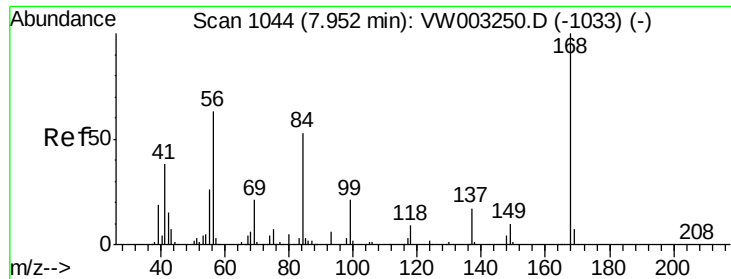
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.15	180	5906	2.03	ug/l	99
94) Hexachlorobutadiene	15.24	225	3702	2.11	ug/l	99
95) Naphthalene	15.38	128	8747	1.77	ug/l	99
96) 1,2,3-Trichlorobenzene	15.57	180	5236	2.04	ug/l	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. 0.00 min

Lab File: VW003666.D

Acq: 29 Jun 2018 17:41

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT3-2018

Tot Ion:168 Resp: 183437

Ion Ratio Lower Upper

168 100

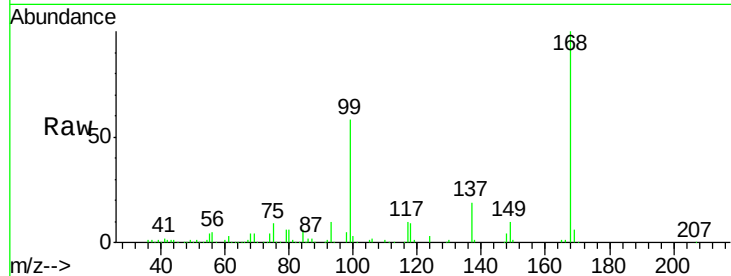
99 58.1 45.5 68.3

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

80000

60000

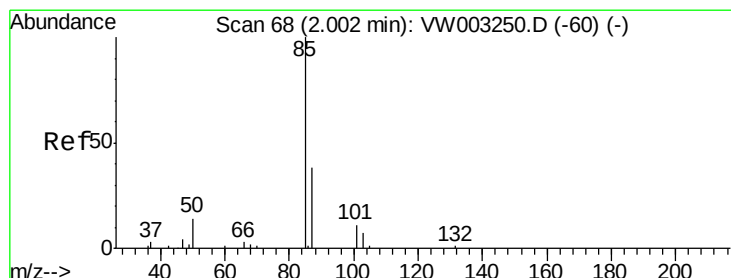
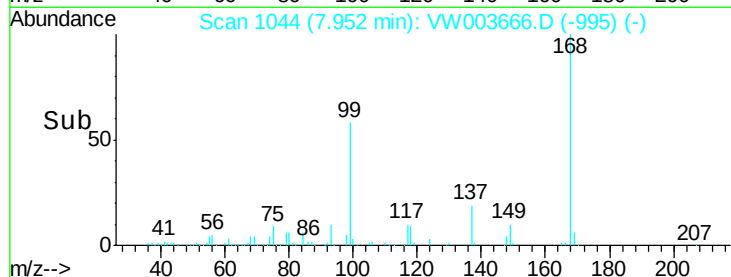
40000

20000

0

7.85 7.90 7.95 8.00 8.05

Time-->



#2

Dichlorodifluoromethane

Concen: 3.36 ug/l

RT: 2.00 min Scan# 68

Delta R.T. 0.00 min

Lab File: VW003666.D

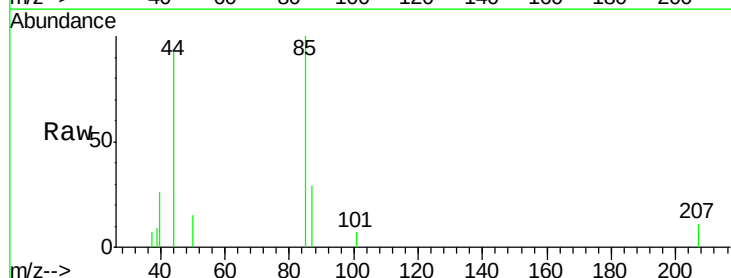
Acq: 29 Jun 2018 17:41

Tgt Ion: 85 Resp: 1865

Ion Ratio Lower Upper

85 100

87 29.0 18.9 56.7



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.00

1000

800

600

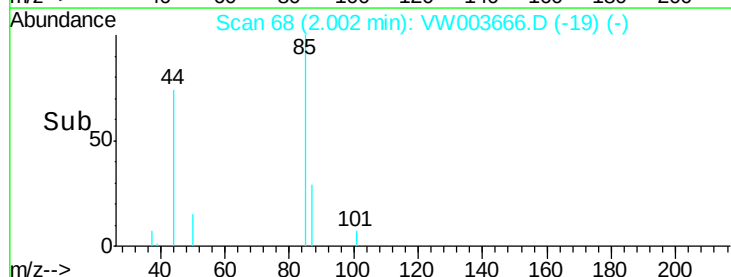
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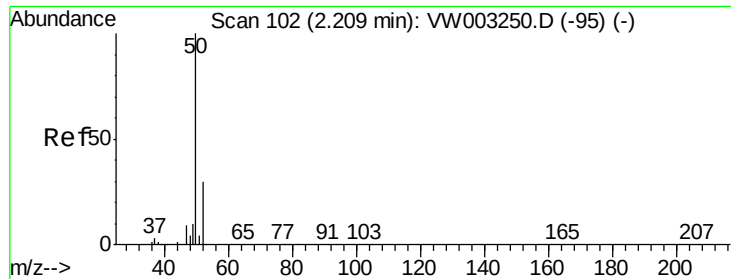
200

0

1.95 2.00 2.05 2.10

Time-->





#3

Chloromethane

Concen: 2.65 ug/l

RT: 2.20 min Scan# 101

Delta R.T. -0.01 min

Lab File: VW003666.D

Acq: 29 Jun 2018 17:41

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT3-2018

Tot Ion: 50 Resp: 3708

Ion Ratio Lower Upper

50 100

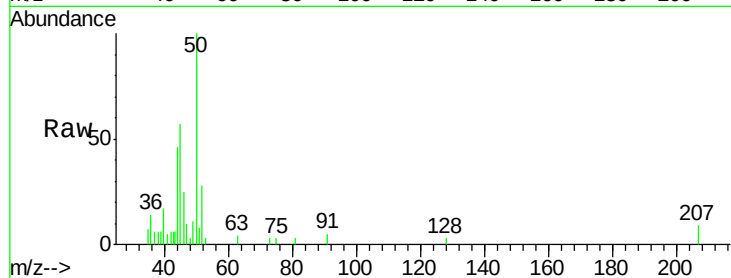
52 28.4 24.2 36.2

Manual Integrations

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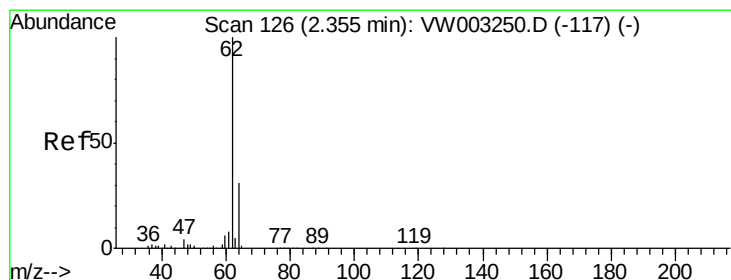
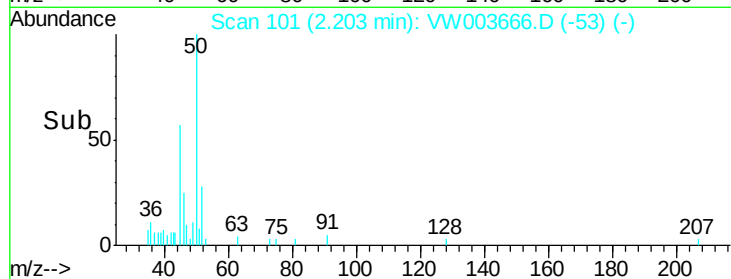
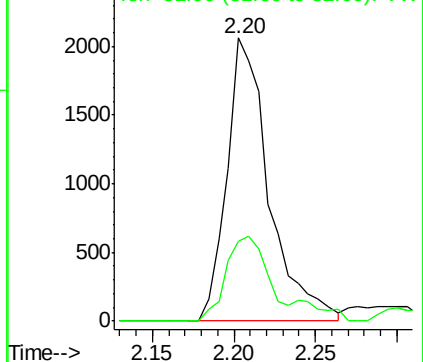
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Abundance Ion 49.90 (49.60 to 50.60): VW

Ion 51.90 (51.60 to 52.60): VW



#4

Vinyl Chloride

Concen: 2.53 ug/l

RT: 2.36 min Scan# 127

Delta R.T. 0.01 min

Lab File: VW003666.D

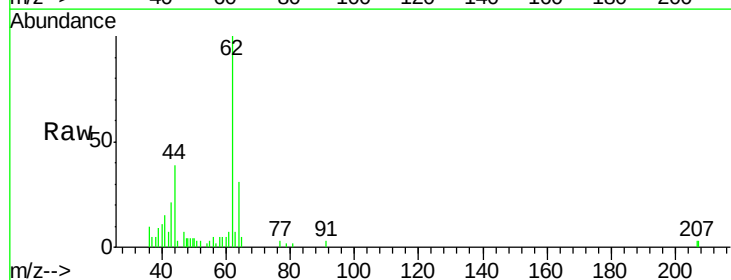
Acq: 29 Jun 2018 17:41

Tgt Ion: 62 Resp: 5165

Ion Ratio Lower Upper

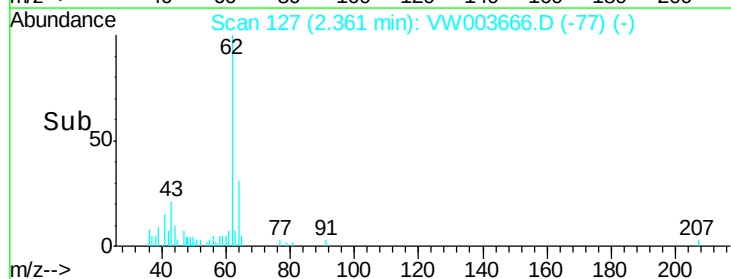
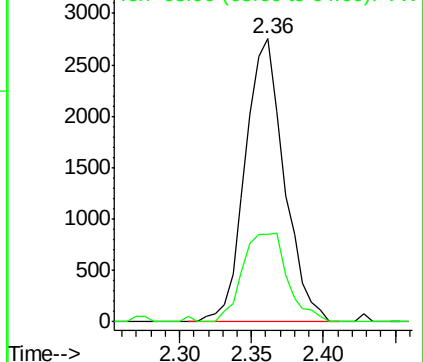
62 100

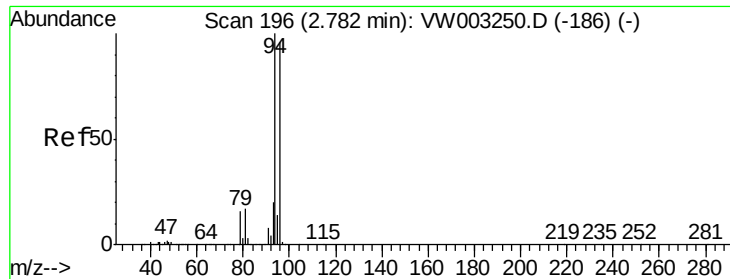
64 30.8 24.9 37.3



Abundance Ion 61.90 (61.60 to 62.60): VW

Ion 63.90 (63.60 to 64.60): VW





#5

Bromomethane

Concen: 2.48 ug/l

RT: 2.78 min Scan# 195

Delta R.T. -0.01 min

Lab File: VW003666.D

Acq: 29 Jun 2018 17:41

Tot Ion: 94 Resp: 3362

Ion Ratio Lower Upper

94 100

96 104.7 76.5 114.7

Instrument :

MSVOA_W

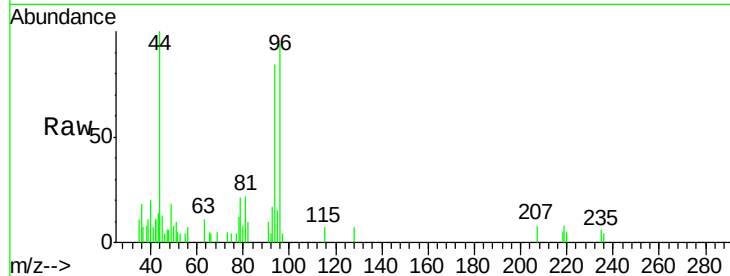
ClientSampleId :

MDL-SOIL-03-QT3-2018

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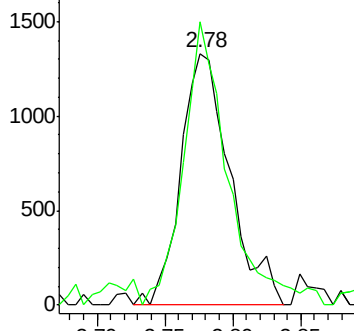
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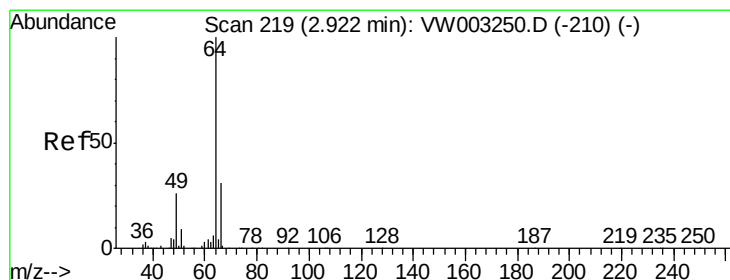
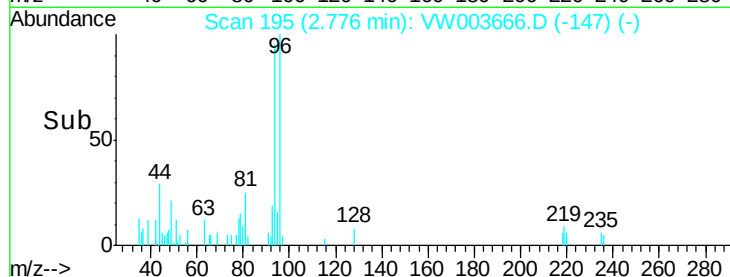


Abundance Ion 93.90 (93.60 to 94.60): VW

Ion 95.90 (95.60 to 96.60): VW



Time-->



#6

Chloroethane

Concen: 2.17 ug/l

RT: 2.92 min Scan# 219

Delta R.T. 0.00 min

Lab File: VW003666.D

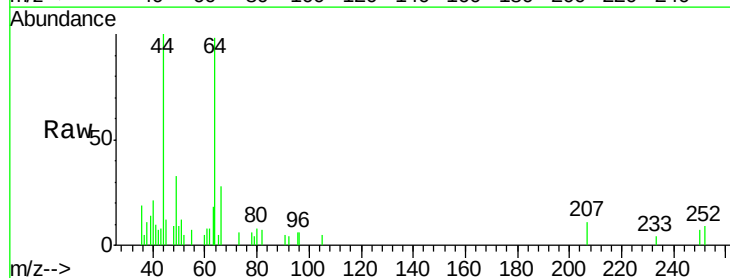
Acq: 29 Jun 2018 17:41

Tgt Ion: 64 Resp: 3083

Ion Ratio Lower Upper

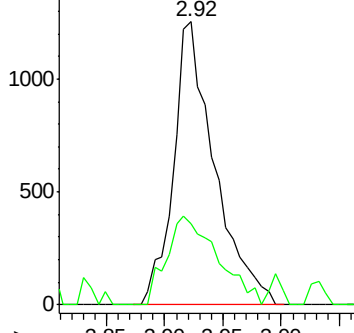
64 100

66 28.5 24.4 36.6

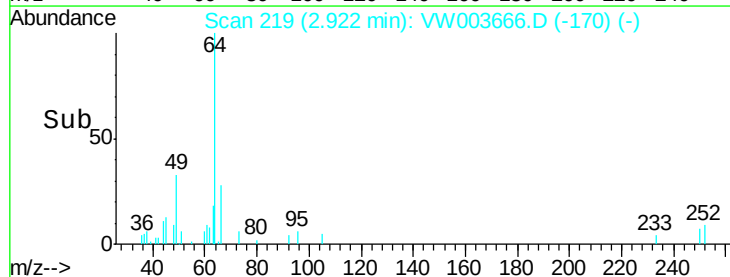


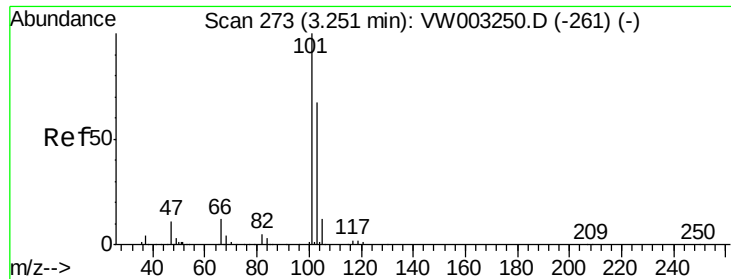
Abundance Ion 63.90 (63.60 to 64.60): VW

Ion 65.90 (65.60 to 66.60): VW



Time-->





#7

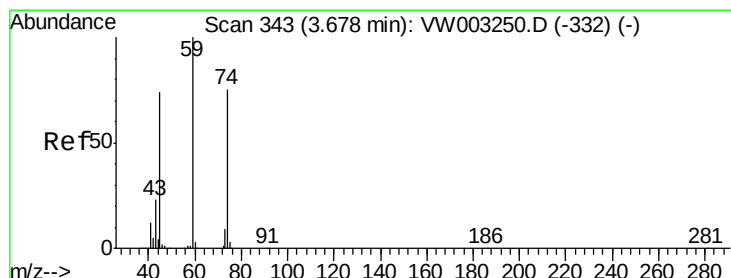
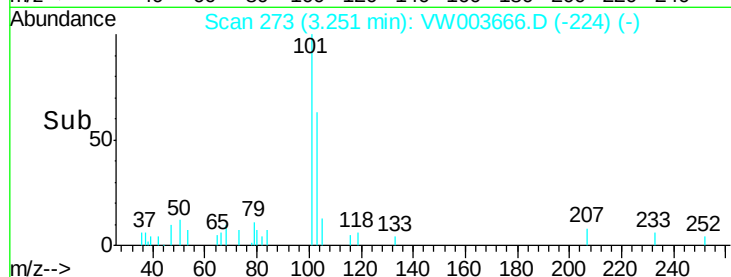
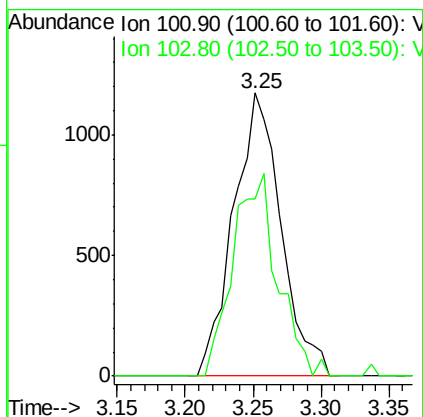
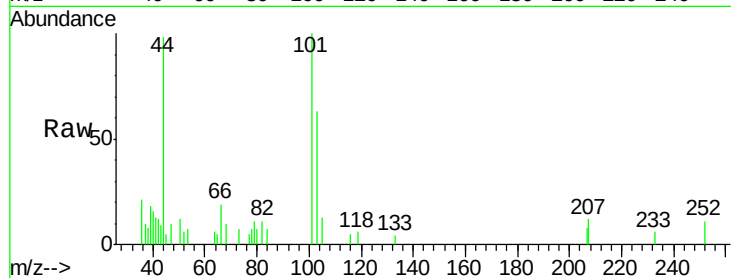
Trichlorofluoromethane
Concen: 2.34 ug/l
RT: 3.25 min Scan# 273
Delta R.T. 0.00 min
Lab File: VW003666.D
Acq: 29 Jun 2018 17:41

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Tot Ion	Ratio	Lower	Upper
101	100		
103	62.8	53.4	80.0

Manual Integrations
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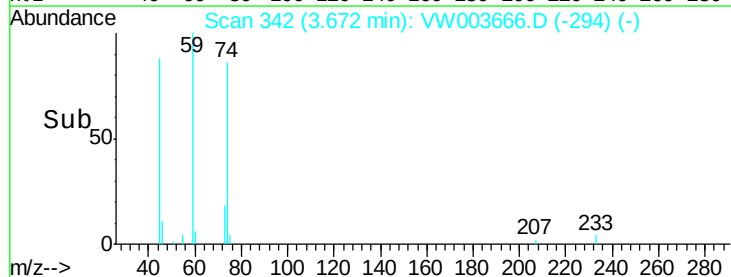
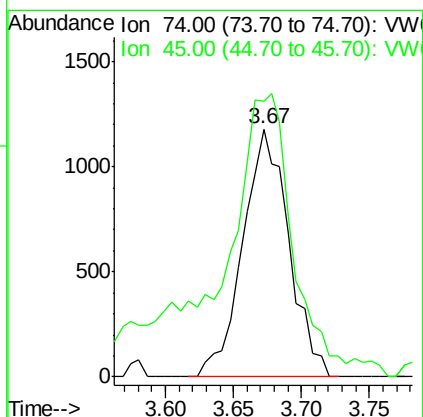
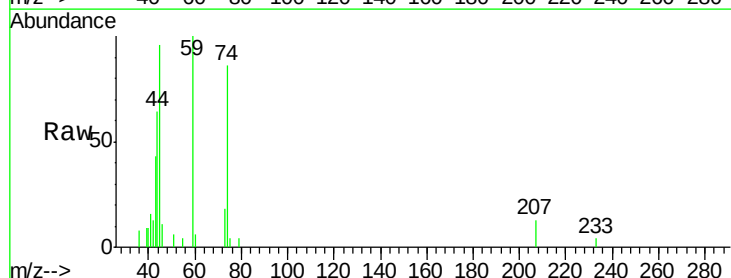
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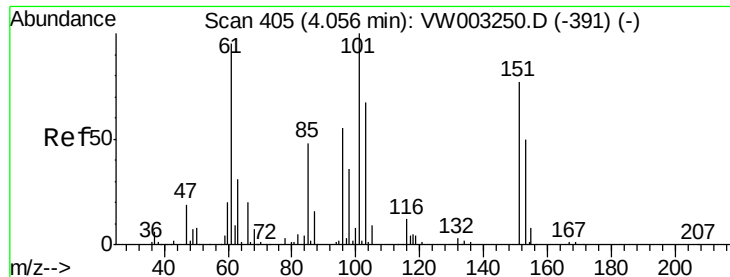


#8

Diethyl Ether
Concen: 3.10 ug/l
RT: 3.67 min Scan# 342
Delta R.T. -0.01 min
Lab File: VW003666.D
Acq: 29 Jun 2018 17:41

Tgt Ion	Ratio	Lower	Upper
74	100		
45	173.8	51.4	154.2





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.56 ug/l

RT: 4.06 min Scan# 405

Delta R.T. 0.00 min

Lab File: VW003666.D

Acq: 29 Jun 2018 17:41

Instrument :

MSVOA_W

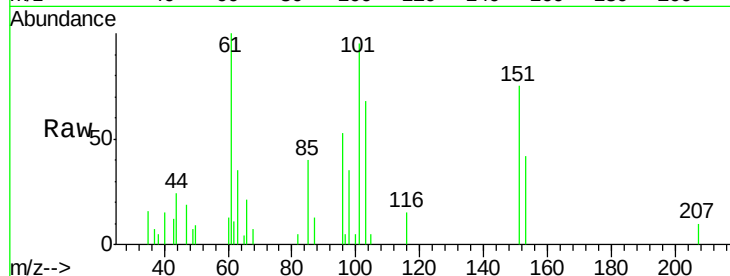
ClientSampleId :

MDL-SOIL-03-QT3-2018

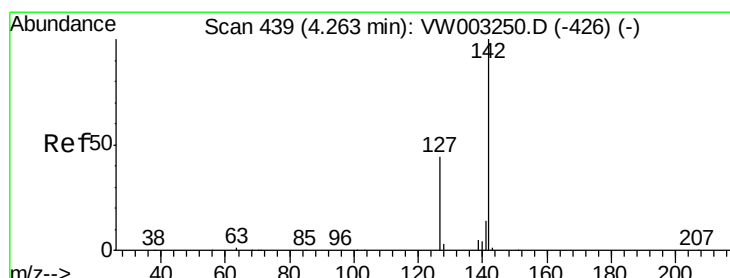
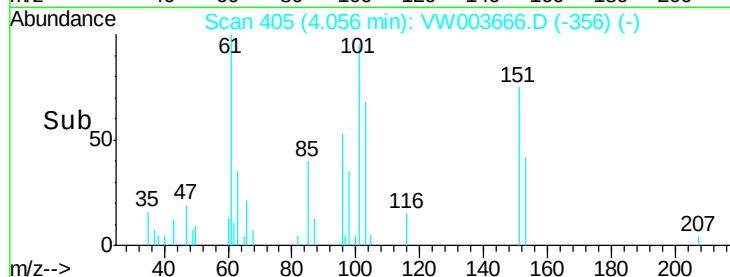
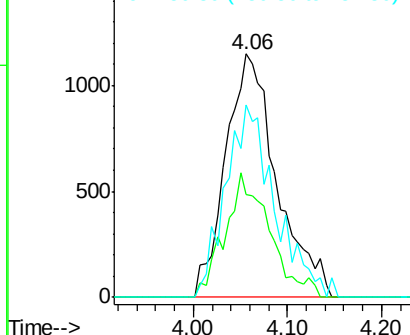
Tot Ion:	101	Resp:	4344
Ion Ratio	Lower	Upper	
101	100		
85	44.5	37.0	55.6
151	76.4	63.3	94.9

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Abundance Ion 100.90 (100.60 to 101.60): V
Ion 84.90 (84.60 to 85.60): V
Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 2.35 ug/l

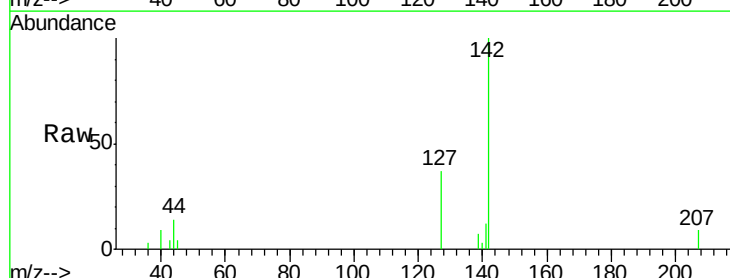
RT: 4.26 min Scan# 438

Delta R.T. -0.01 min

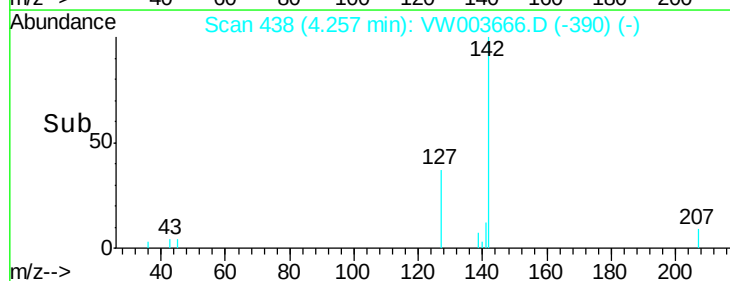
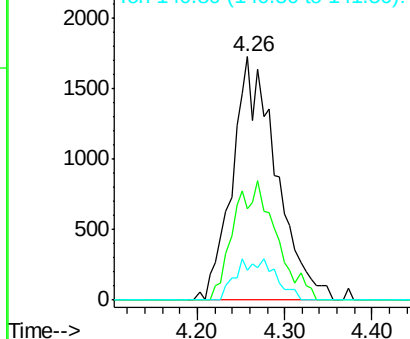
Lab File: VW003666.D

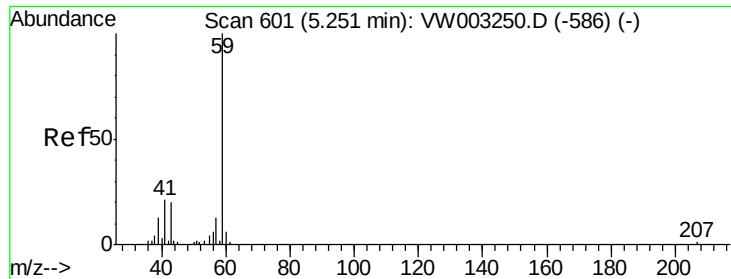
Acq: 29 Jun 2018 17:41

Tgt Ion:	142	Resp:	6027
Ion Ratio	Lower	Upper	
142	100		
127	18.8	36.5	54.7#
141	5.6	12.1	18.1#



Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V





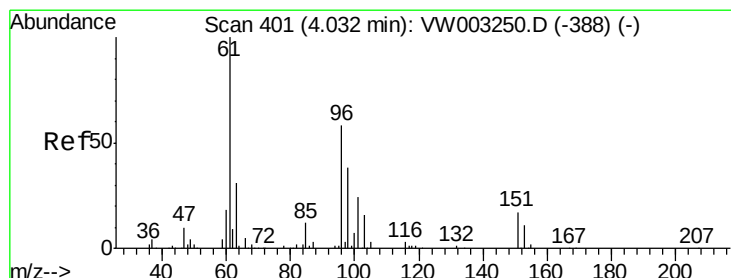
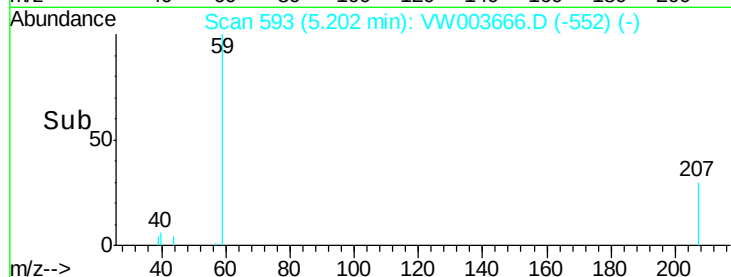
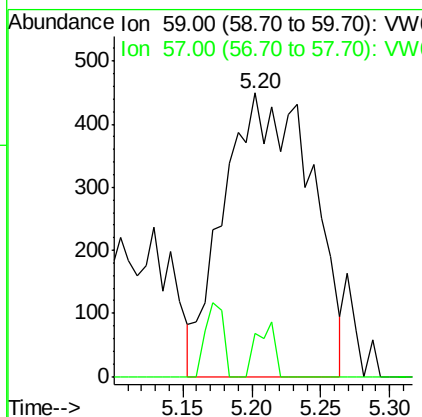
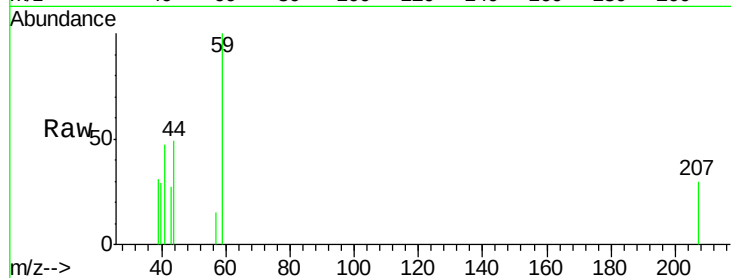
#11
Tert butyl alcohol
Concen: 18.52 ug/l m
RT: 5.20 min Scan# 593
Delta R.T. -0.05 min
Lab File: VW003666.D
Acq: 29 Jun 2018 17:41

Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT3-2018

Tot Ion: 59 Resp: 1973
Ion Ratio Lower Upper
59 100
57 4.0 4.2 6.2#

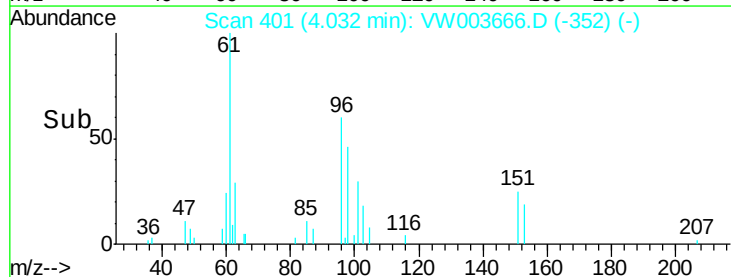
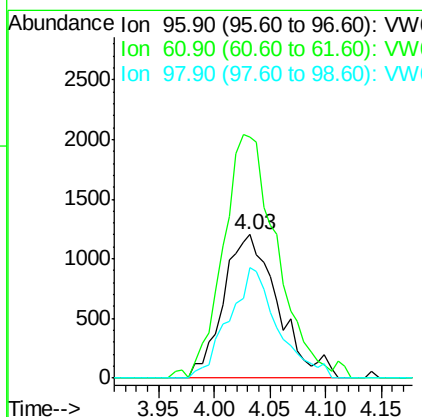
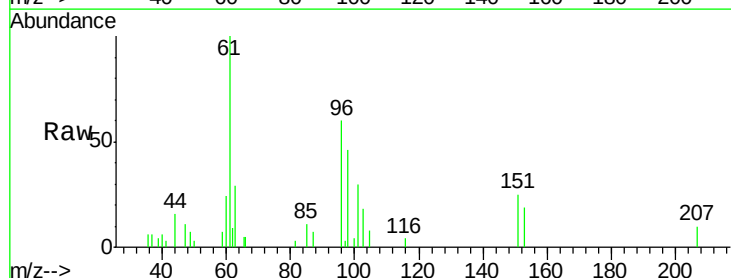
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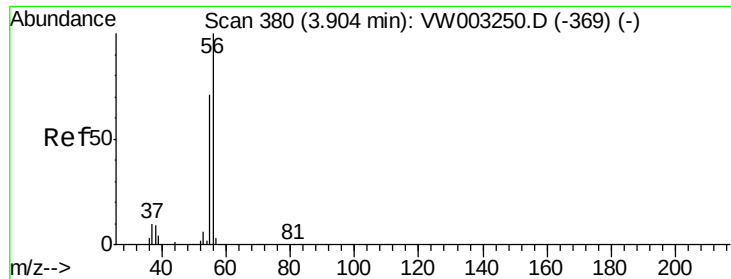
apatel
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#12
1,1-Dichloroethene
Concen: 2.47 ug/l m
RT: 4.03 min Scan# 401
Delta R.T. 0.00 min
Lab File: VW003666.D
Acq: 29 Jun 2018 17:41

Tgt Ion: 96 Resp: 4105
Ion Ratio Lower Upper
96 100
61 168.0 139.0 208.4
98 76.6 53.3 79.9





#13

Acrolein

Concen: 7.96 ug/l

RT: 3.90 min Scan# 379

Delta R.T. -0.01 min

Lab File: VW003666.D

Acq: 29 Jun 2018 17:41

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT3-2018

Tot Ion: 56 Resp: 1213

Ion Ratio Lower Upper

56 100

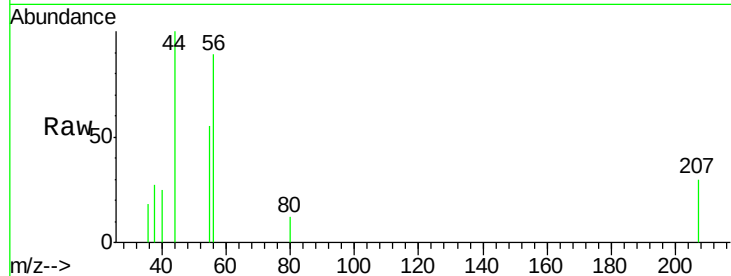
55 88.1 55.4 83.2#

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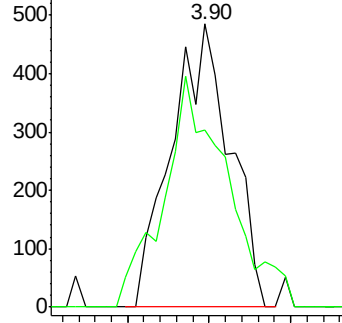
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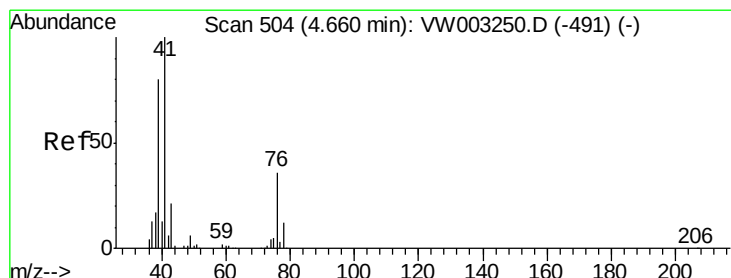
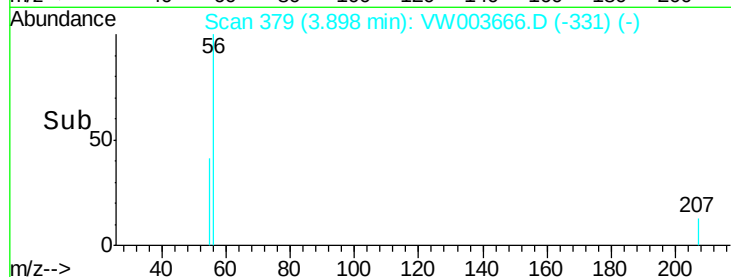


Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 55.00 (54.70 to 55.70): VW



Time-->



#14

Allyl chloride

Concen: 2.45 ug/l

RT: 4.66 min Scan# 504

Delta R.T. 0.00 min

Lab File: VW003666.D

Acq: 29 Jun 2018 17:41

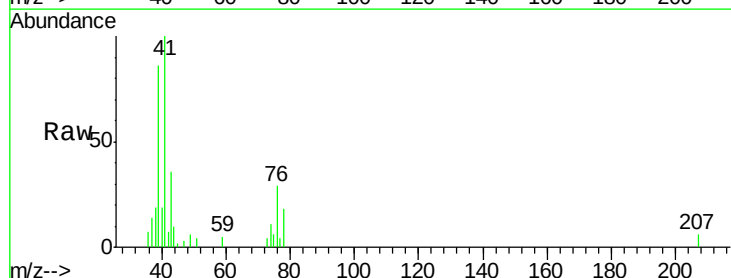
Tgt Ion: 41 Resp: 7048

Ion Ratio Lower Upper

41 100

39 81.5 63.2 94.8

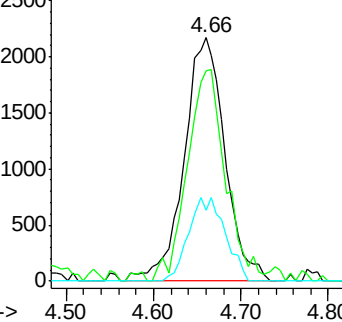
76 30.7 28.0 42.0



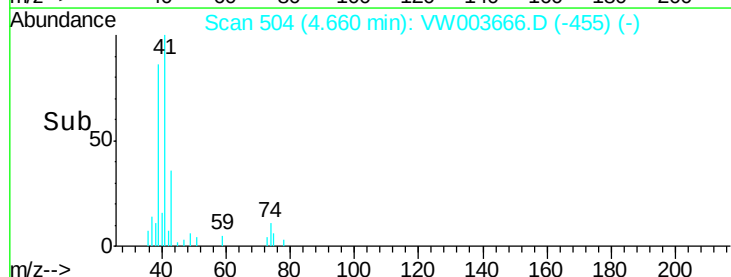
Abundance Ion 41.00 (40.70 to 41.70): VW

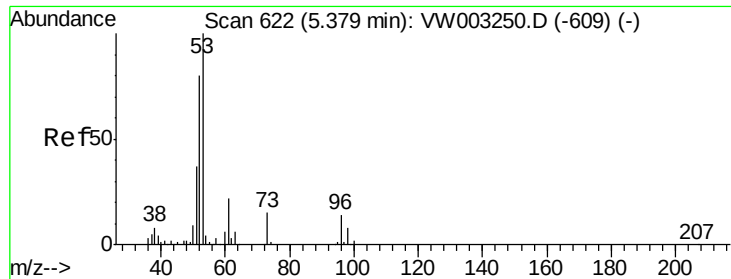
Ion 39.00 (38.70 to 39.70): VW

Ion 75.90 (75.60 to 76.60): VW



Time-->





#15

Acrylonitrile

Concen: 12.69 ug/l

RT: 5.38 min Scan# 622

Delta R.T. 0.00 min

Lab File: VW003666.D

Acq: 29 Jun 2018 17:41

Instrument :

MSVOA_W

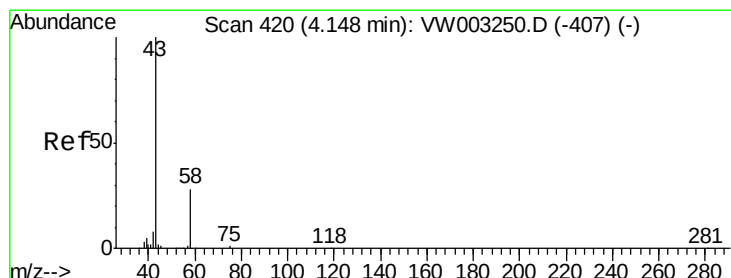
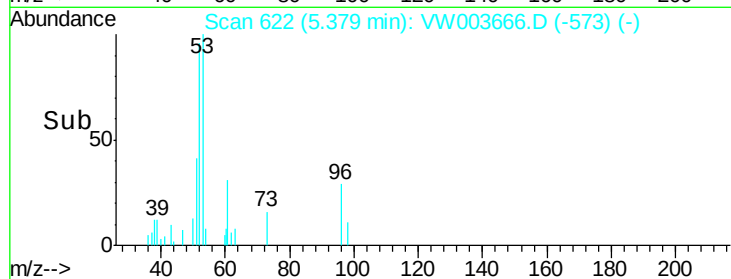
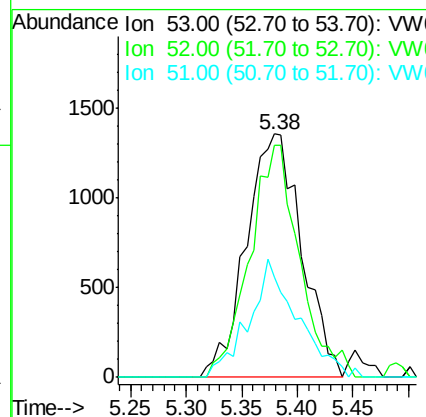
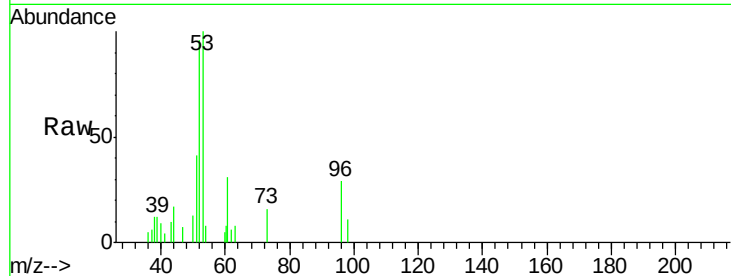
ClientSampleId :

MDL-SOIL-03-QT3-2018

Tot Ion:	53	Resp:	4693
Ion	Ratio	Lower	Upper
53	100		
52	86.0	66.6	100.0
51	42.3	30.6	46.0

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#16

Acetone

Concen: 21.83 ug/l

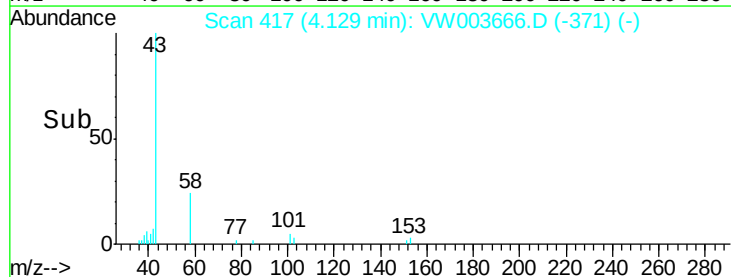
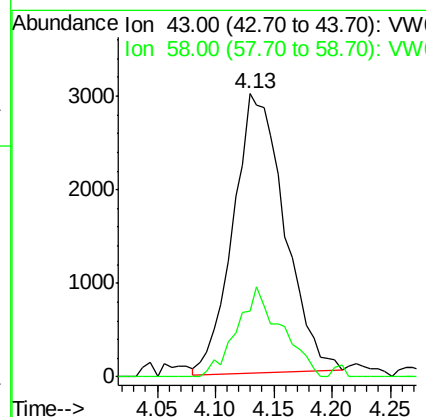
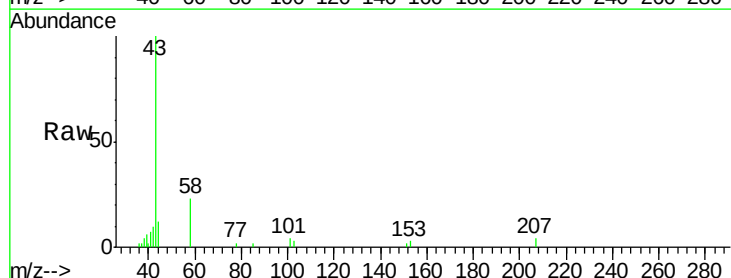
RT: 4.13 min Scan# 417

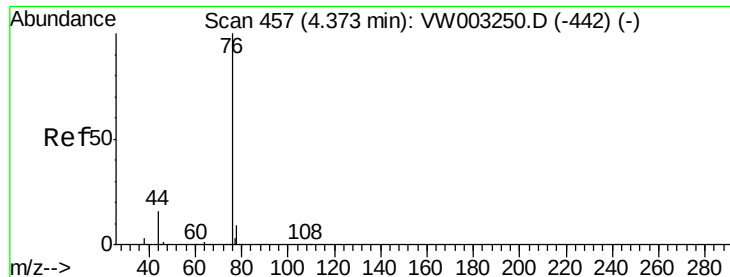
Delta R.T. -0.02 min

Lab File: VW003666.D

Acq: 29 Jun 2018 17:41

Tgt Ion:	43	Resp:	9098
Ion	Ratio	Lower	Upper
43	100		
58	23.8	22.6	34.0





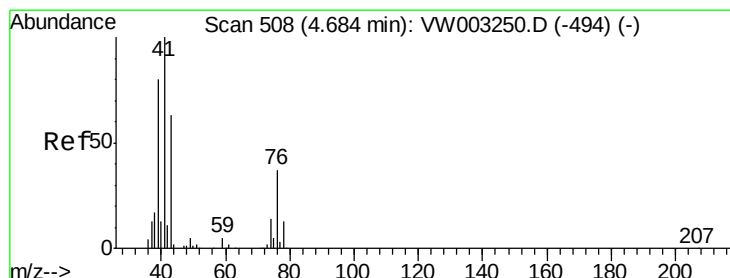
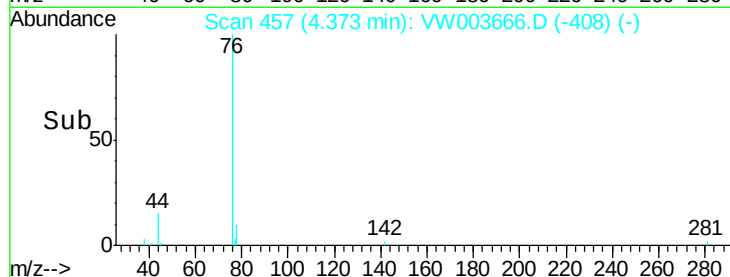
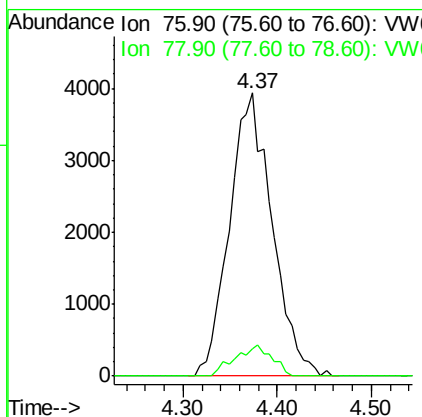
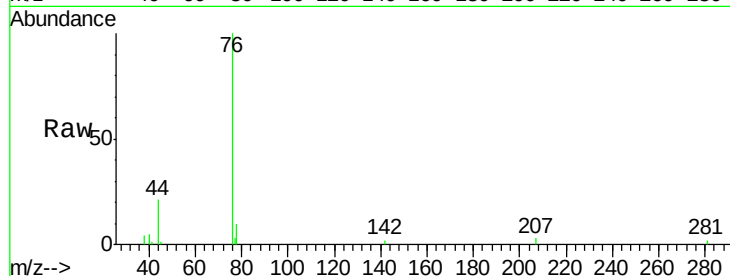
#17
Carbon Disulfide
Concen: 2.53 ug/l
RT: 4.37 min Scan# 457
Delta R.T. 0.00 min
Lab File: VW003666.D
Acq: 29 Jun 2018 17:41

Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT3-2018

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.7	7.1	10.7

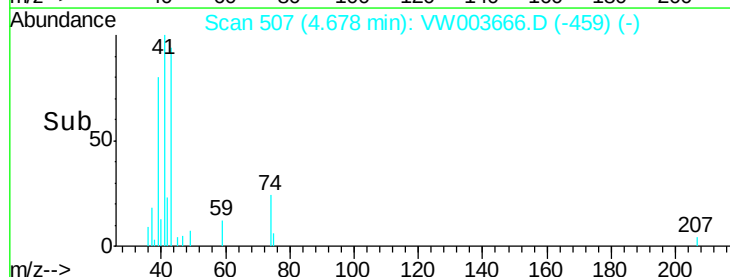
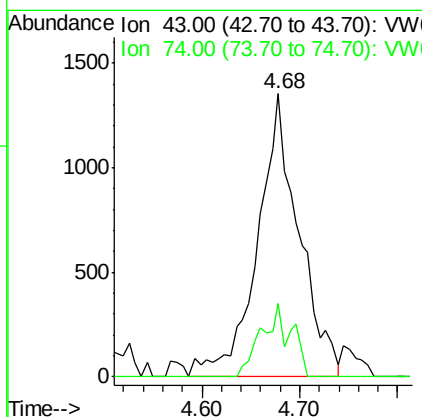
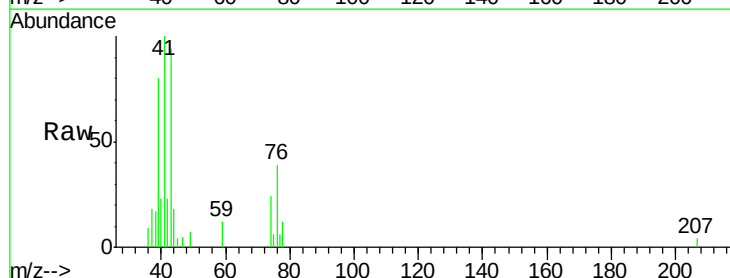
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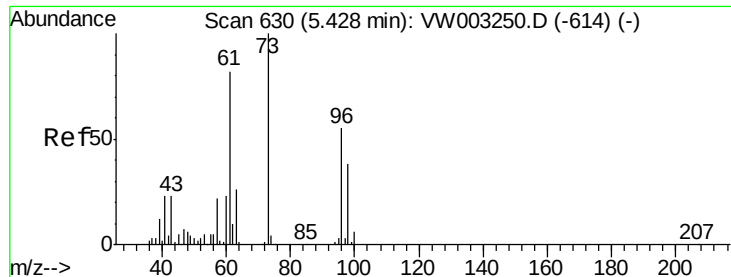
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#18
Methyl Acetate
Concen: 4.03 ug/l
RT: 4.68 min Scan# 507
Delta R.T. -0.01 min
Lab File: VW003666.D
Acq: 29 Jun 2018 17:41

Tgt Ion	Ratio	Lower	Upper
43	100		
74	18.9	18.7	28.1





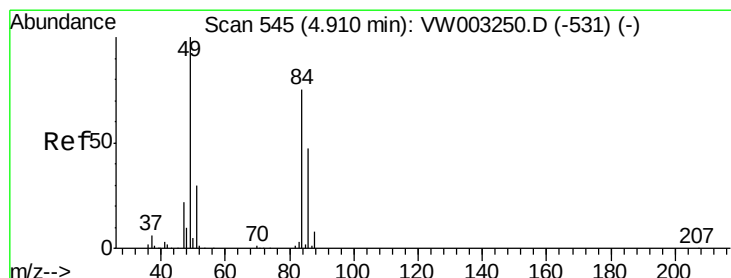
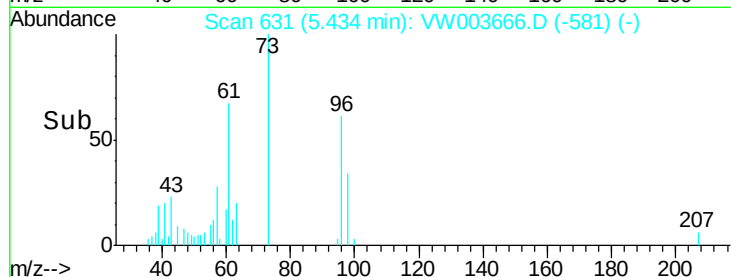
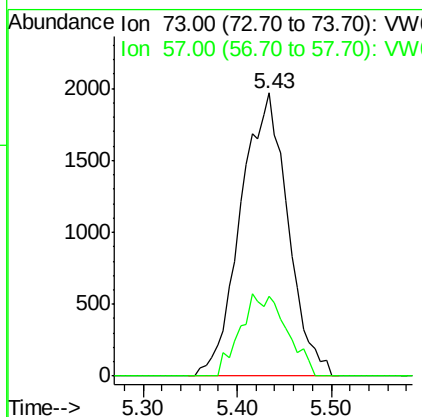
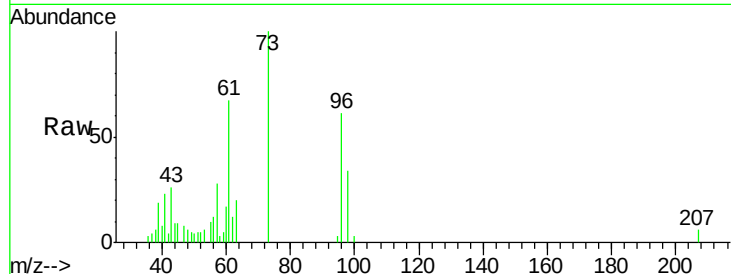
#19
Methyl tert-butyl Ether
Concen: 2.22 ug/l
RT: 5.43 min Scan# 631
Delta R.T. 0.01 min
Lab File: VW003666.D
Acq: 29 Jun 2018 17:41

Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT3-2018

Tot Ion: 73 Resp: 6904
Ion Ratio Lower Upper
73 100
57 28.2 18.0 27.0#

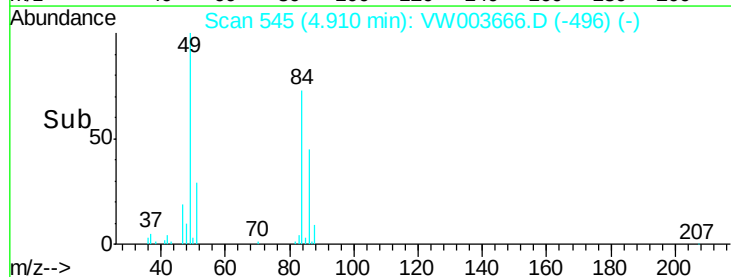
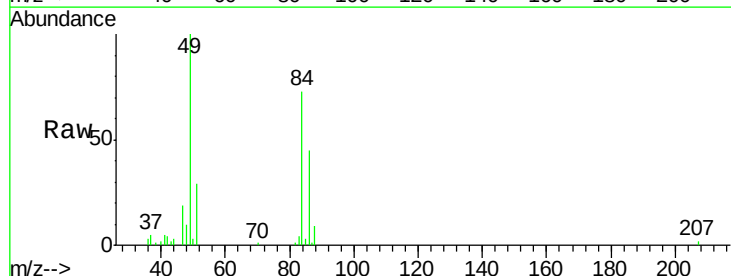
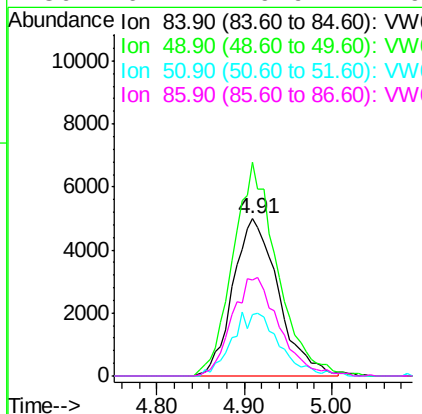
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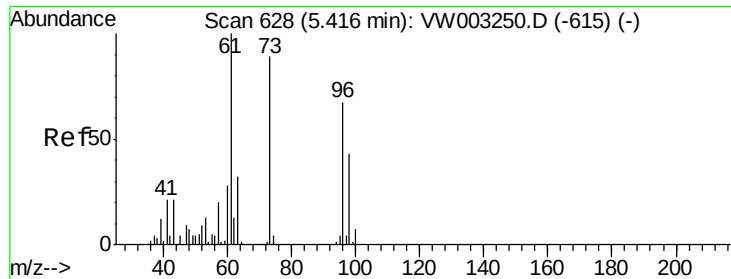
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#20
Methylene Chloride
Concen: 7.04 ug/l
RT: 4.91 min Scan# 545
Delta R.T. 0.00 min
Lab File: VW003666.D
Acq: 29 Jun 2018 17:41

Tgt Ion: 84 Resp: 18042
Ion Ratio Lower Upper
84 100
49 136.1 106.3 159.5
51 39.2 32.0 48.0
86 61.1 49.9 74.9





#21

trans-1,2-Dichloroethene

Concen: 2.42 ug/l

RT: 5.42 min Scan# 629

Delta R.T. 0.01 min

Lab File: VW003666.D

Acq: 29 Jun 2018 17:41

Instrument :

MSVOA_W

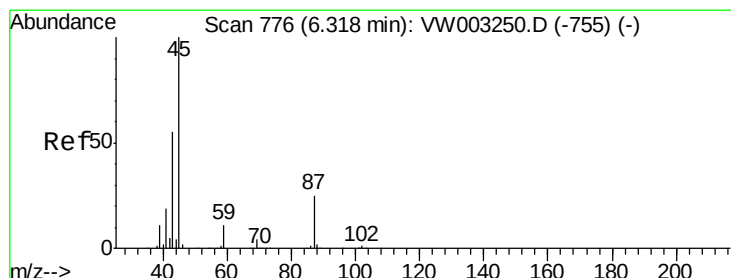
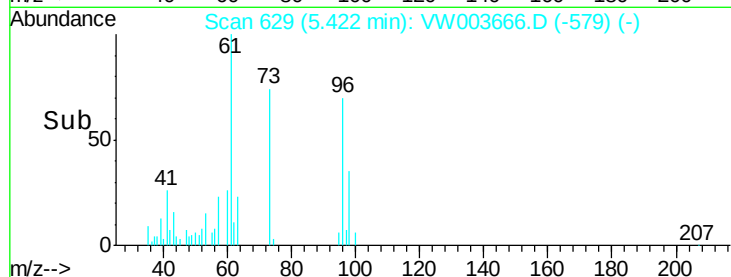
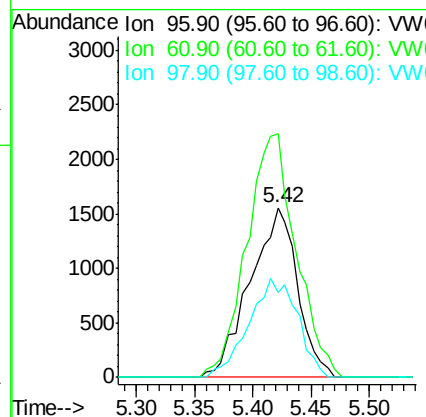
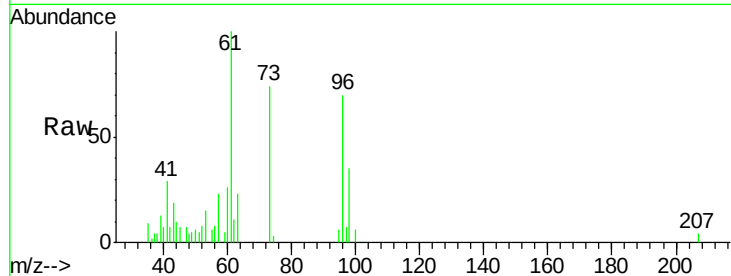
ClientSampleId :

MDL-SOIL-03-QT3-2018

Tot Ion:	96	Resp:	4379
Ion	Ratio	Lower	Upper
96	100		
61	143.2	118.7	178.1
98	50.1	51.0	76.6#

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#22

Diisopropyl ether

Concen: 1.92 ug/l

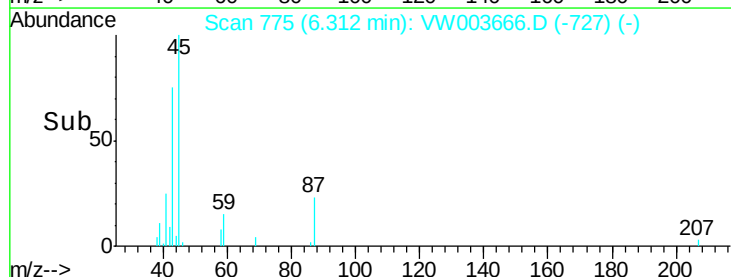
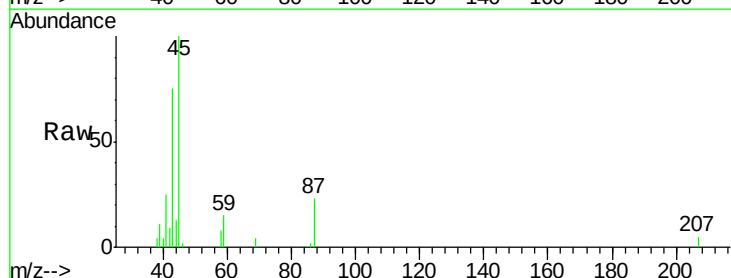
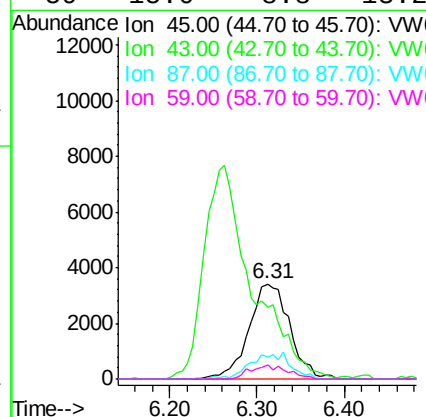
RT: 6.31 min Scan# 775

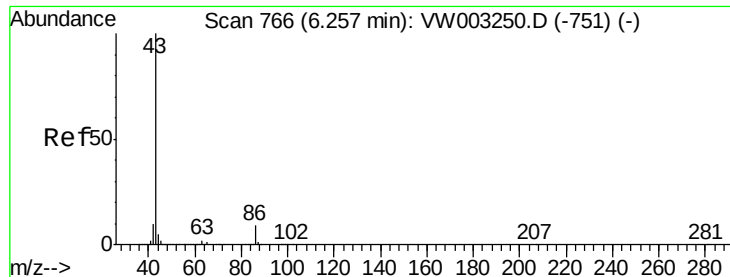
Delta R.T. -0.01 min

Lab File: VW003666.D

Acq: 29 Jun 2018 17:41

Tgt Ion:	45	Resp:	11097
Ion	Ratio	Lower	Upper
45	100		
43	71.9	44.0	66.0#
87	22.6	20.6	31.0
59	15.0	8.8	13.2#





#23

Vinyl Acetate

Concen: 8.80 ug/l

RT: 6.26 min Scan# 767

Delta R.T. 0.01 min

Lab File: VW003666.D

Acq: 29 Jun 2018 17:41

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT3-2018

Tot Ion: 43 Resp: 29347

Ion Ratio Lower Upper

43 100

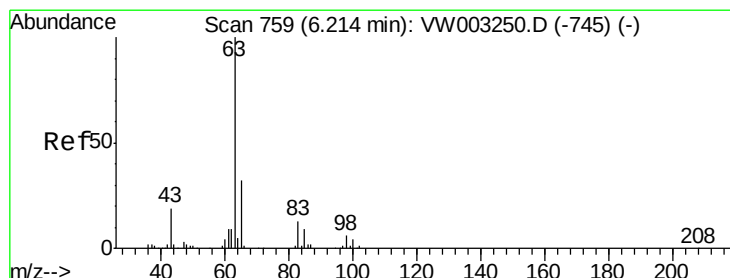
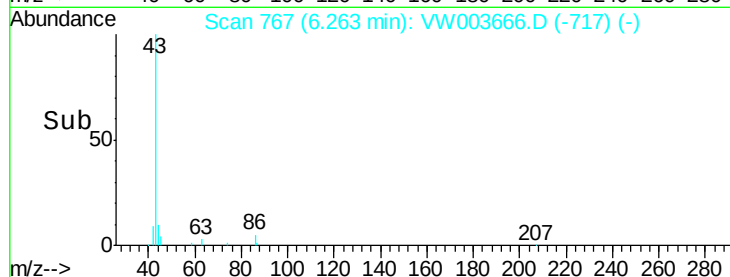
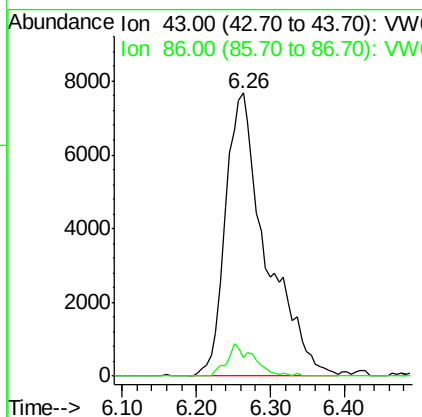
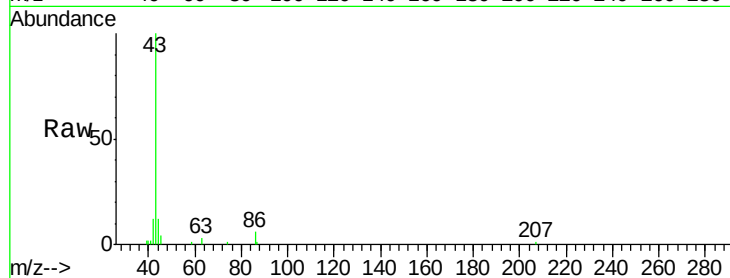
86 6.4 7.5 11.3#

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#24

1,1-Dichloroethane

Concen: 2.46 ug/l

RT: 6.21 min Scan# 758

Delta R.T. -0.01 min

Lab File: VW003666.D

Acq: 29 Jun 2018 17:41

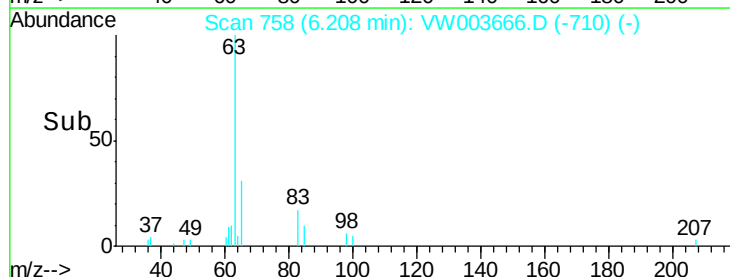
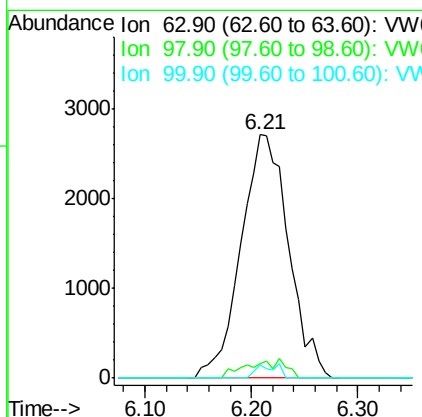
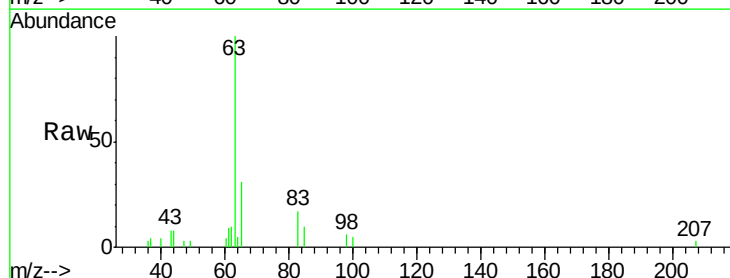
Tgt Ion: 63 Resp: 8470

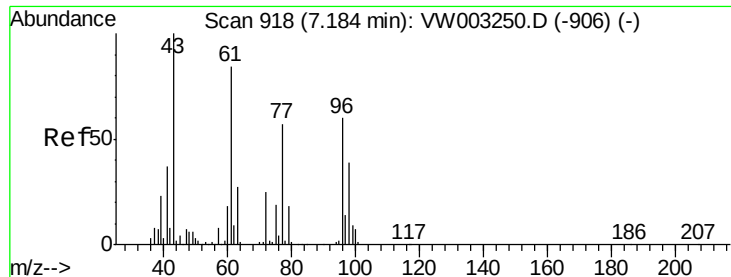
Ion Ratio Lower Upper

63 100

98 6.2 2.8 8.3

100 5.2 2.1 6.5





#25

2-Butanone

Concen: 16.14 ug/l

RT: 7.19 min Scan# 919

Delta R.T. 0.01 min

Lab File: VW003666.D

Acq: 29 Jun 2018 17:41

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT3-2018

Tot Ion: 43 Resp: 8362

Ion Ratio Lower Upper

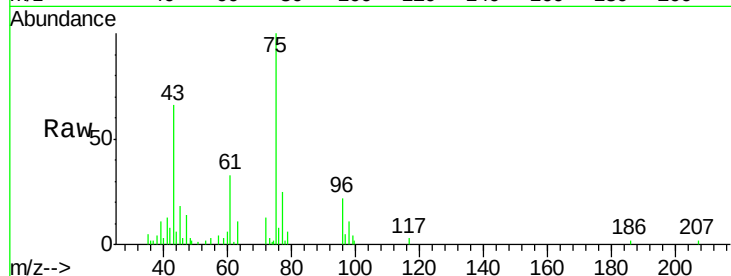
43 100

72 19.5 20.3 30.5#

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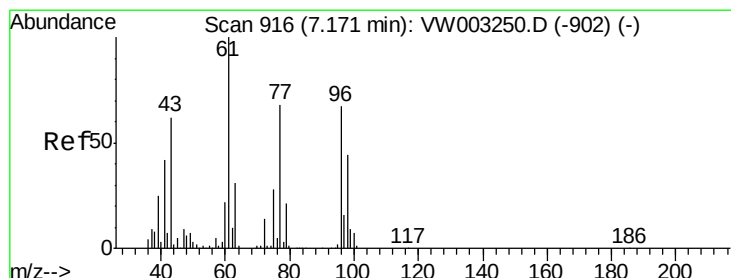
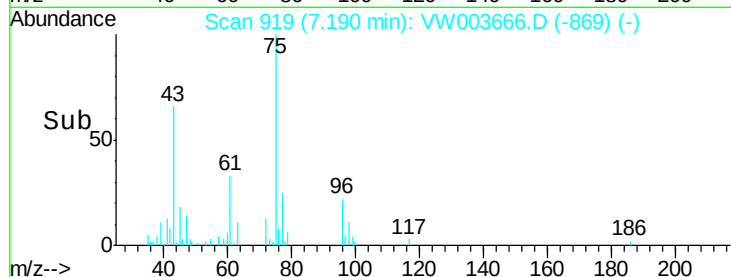
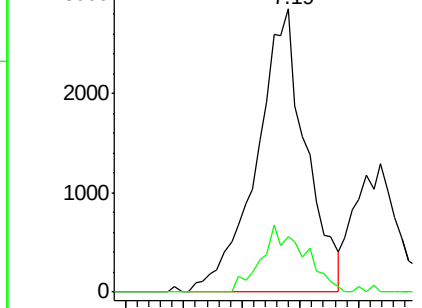
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Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW



#26

2,2-Dichloropropane

Concen: 3.06 ug/l

RT: 7.17 min Scan# 915

Delta R.T. -0.01 min

Lab File: VW003666.D

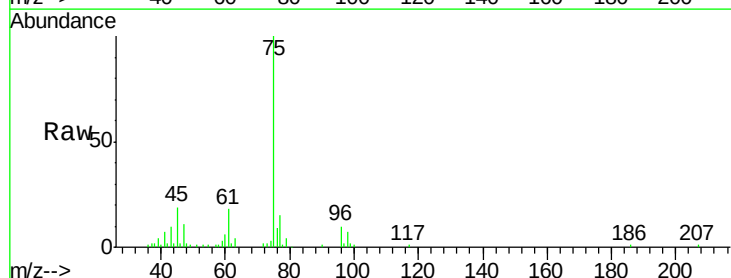
Acq: 29 Jun 2018 17:41

Tgt Ion: 77 Resp: 7025

Ion Ratio Lower Upper

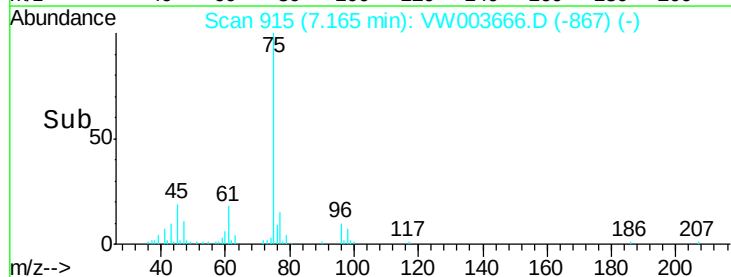
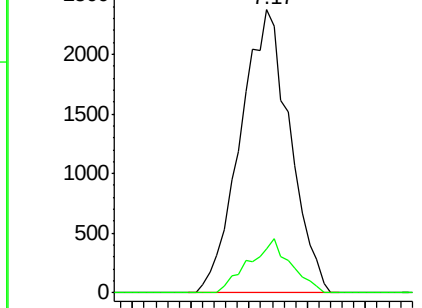
77 100

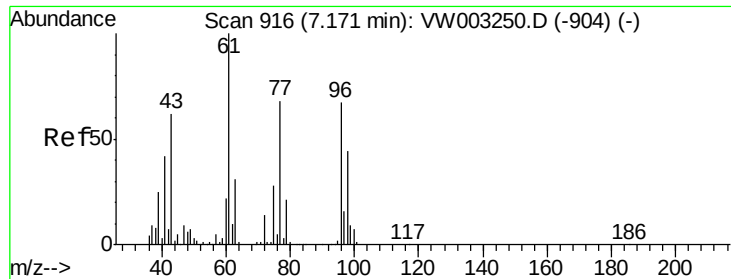
97 16.2 11.3 33.9



Abundance Ion 76.90 (76.60 to 77.60): VW

Ion 96.90 (96.60 to 97.60): VW





#27

cis-1,2-Dichloroethene

Concen: 2.25 ug/l

RT: 7.18 min Scan# 917

Delta R.T. 0.01 min

Lab File: VW003666.D

Acq: 29 Jun 2018 17:41

Instrument :

MSVOA_W

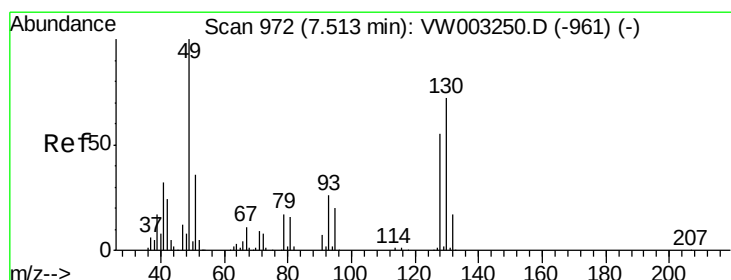
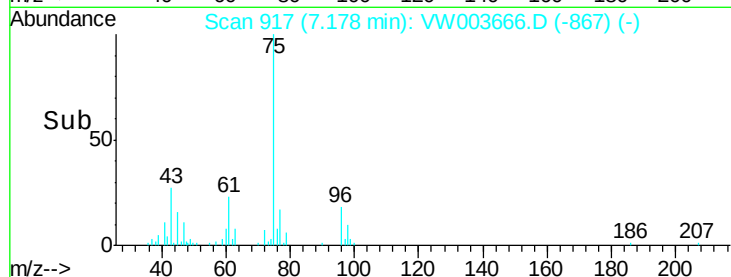
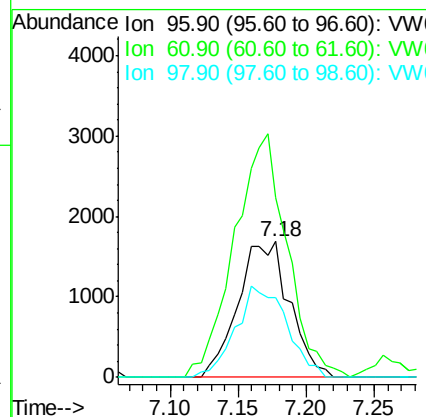
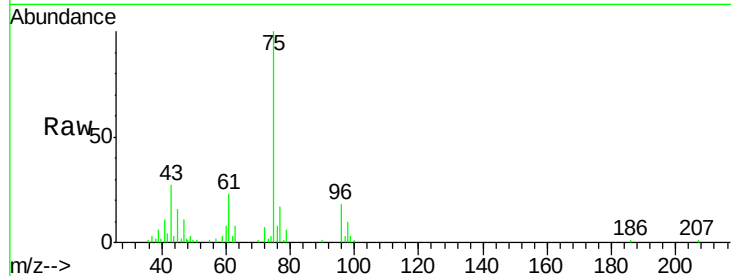
ClientSampleId :

MDL-SOIL-03-QT3-2018

Tot Ion:	96	Resp:	4464
Ion	Ratio	Lower	Upper
96	100		
61	183.0	0.0	298.8
98	66.5	0.0	130.4

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#28

Bromochloromethane

Concen: 2.18 ug/l

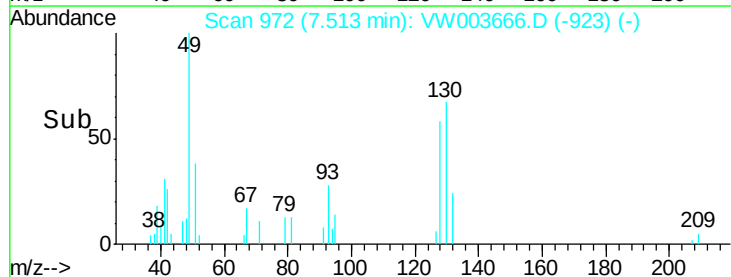
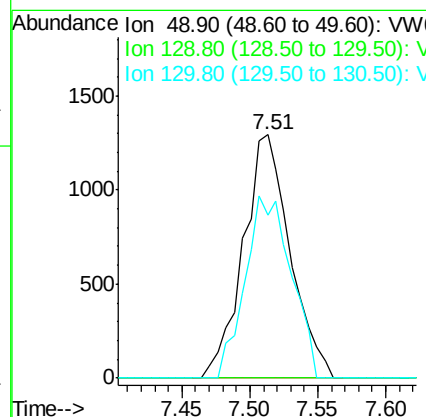
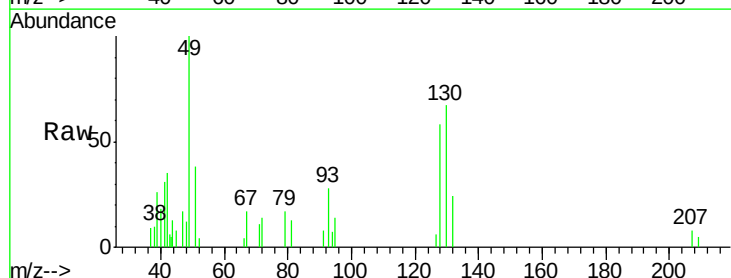
RT: 7.51 min Scan# 972

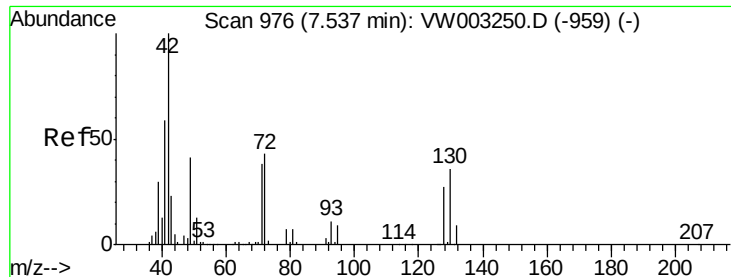
Delta R.T. 0.00 min

Lab File: VW003666.D

Acq: 29 Jun 2018 17:41

Tgt Ion:	49	Resp:	3118
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.6
130	73.3	59.4	89.2





#29

Tetrahydrofuran

Concen: 12.34 ug/l

RT: 7.54 min Scan# 977

Delta R.T. 0.01 min

Lab File: VW003666.D

Acq: 29 Jun 2018 17:41

Instrument :

MSVOA_W

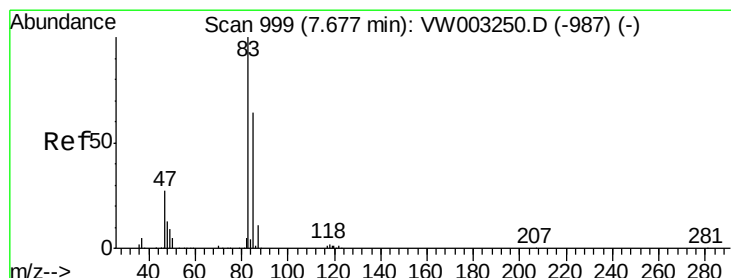
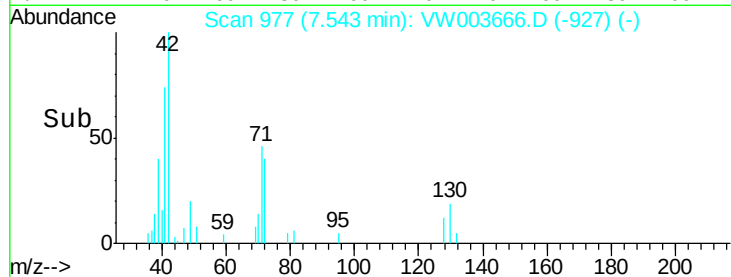
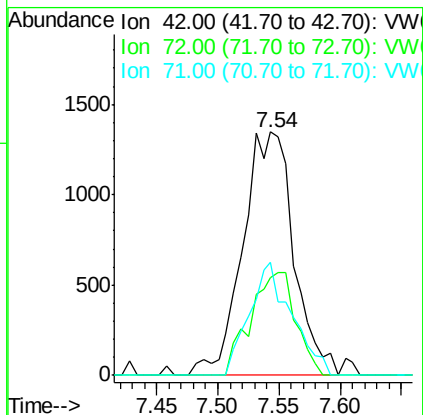
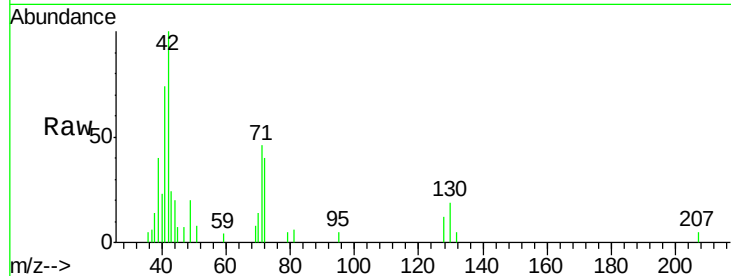
ClientSampleId :

MDL-SOIL-03-QT3-2018

Tot Ion:	42	Resp:	3907
Ion	Ratio	Lower	Upper
42	100		
72	37.5	32.4	48.6
71	38.6	31.2	46.8

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#30

Chloroform

Concen: 2.51 ug/l

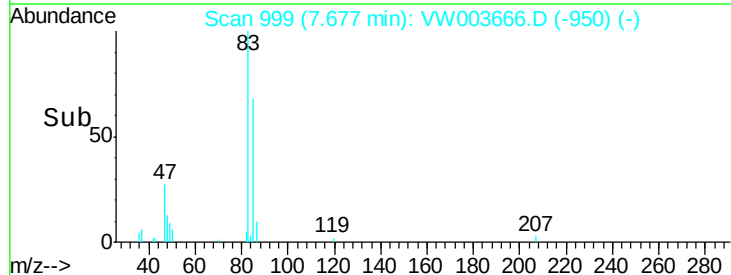
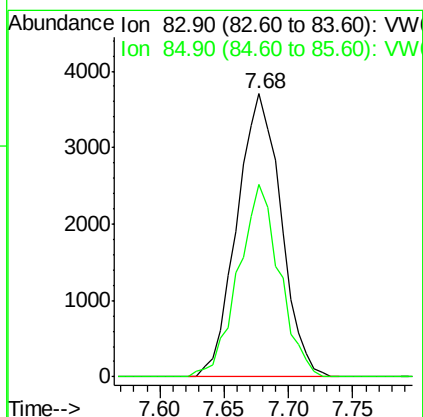
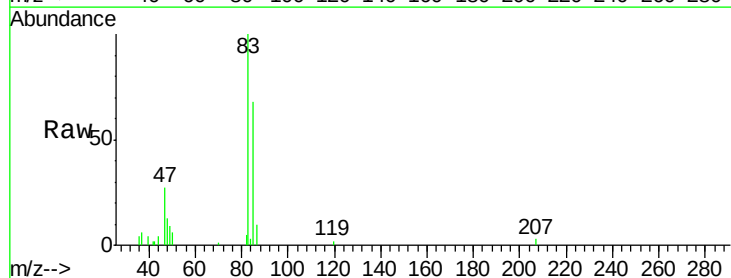
RT: 7.68 min Scan# 999

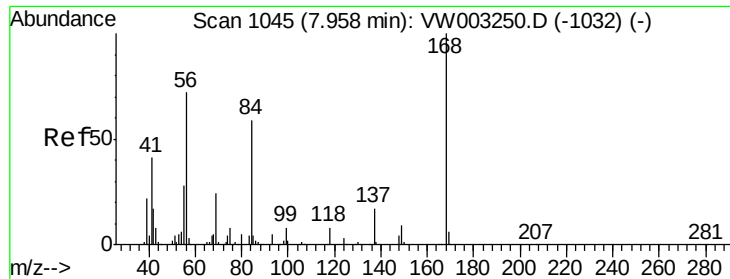
Delta R.T. 0.00 min

Lab File: VW003666.D

Acq: 29 Jun 2018 17:41

Tgt Ion:	83	Resp:	8789
Ion	Ratio	Lower	Upper
83	100		
85	67.9	51.3	76.9





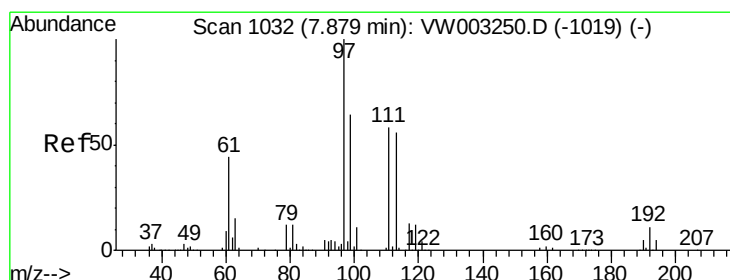
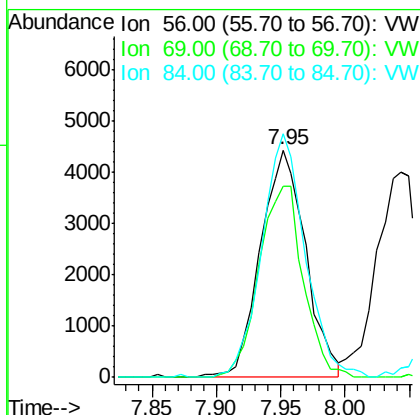
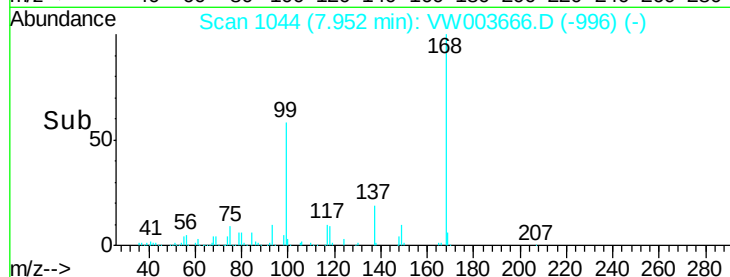
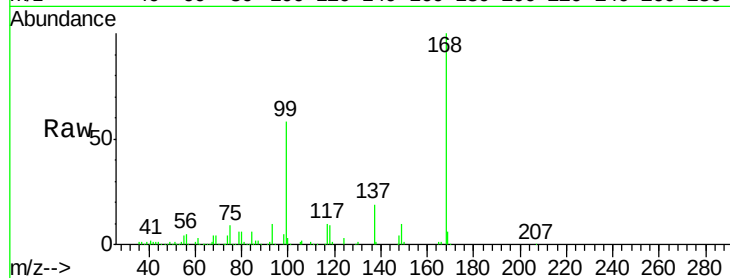
#31
Cyclohexane
Concen: 3.35 ug/l
RT: 7.95 min Scan# 1044
Delta R.T. -0.01 min
Lab File: VW003666.D
Acq: 29 Jun 2018 17:41

Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT3-2018

Tot Ion	Ratio	Lower	Upper
56	100		
69	84.3	26.3	39.5#
84	107.2	65.7	98.5#

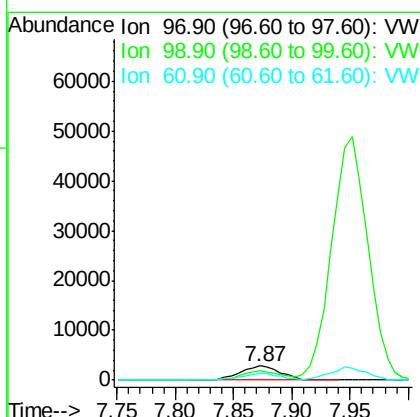
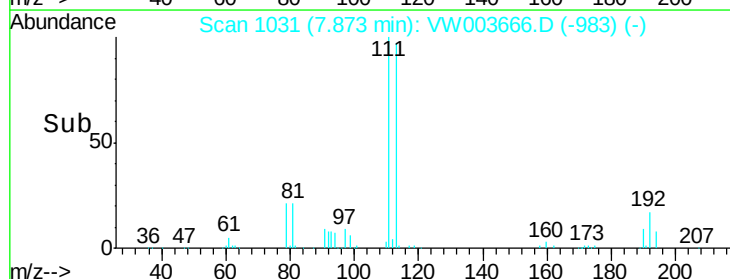
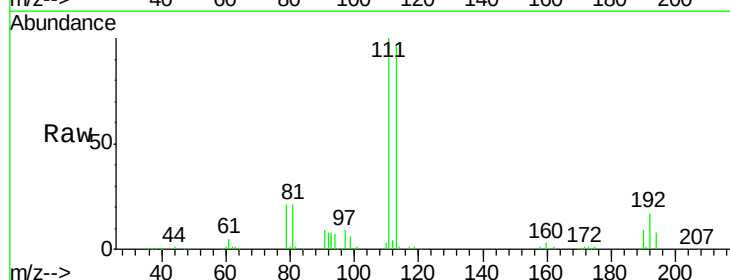
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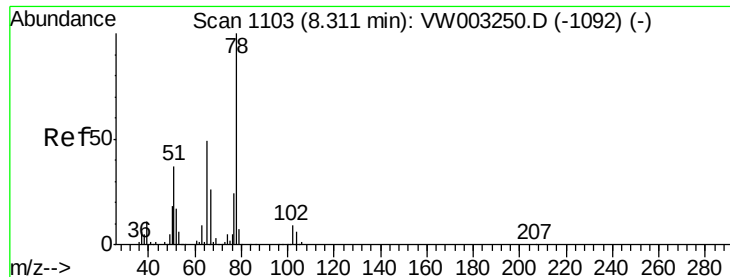
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#32
1,1,1-Trichloroethane
Concen: 2.40 ug/l
RT: 7.87 min Scan# 1031
Delta R.T. -0.01 min
Lab File: VW003666.D
Acq: 29 Jun 2018 17:41

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.8	51.7	77.5
61	47.3	37.6	56.4





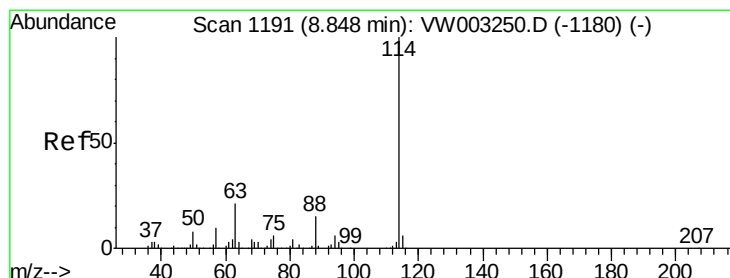
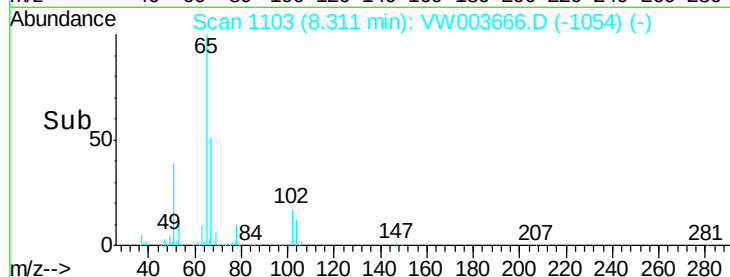
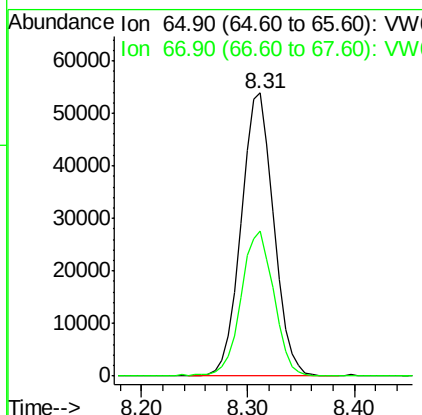
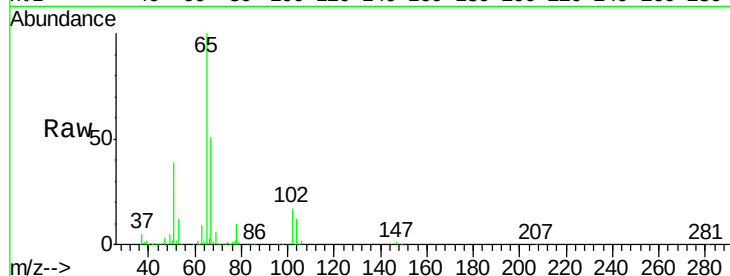
#33
 1,2-Dichloroethane-d4
 Concen: 58.34 ug/l
 RT: 8.31 min Scan# 1103
 Delta R.T. 0.00 min
 Lab File: VW003666.D
 Acq: 29 Jun 2018 17:41

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT3-2018

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	51.7	0.0	104.2	

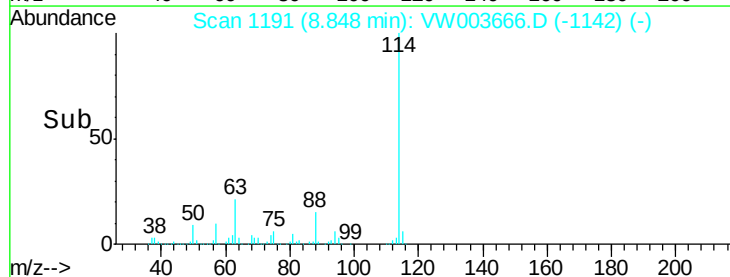
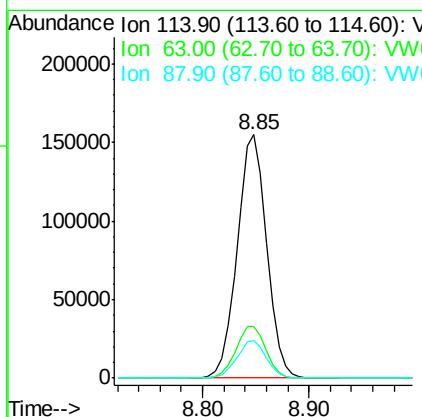
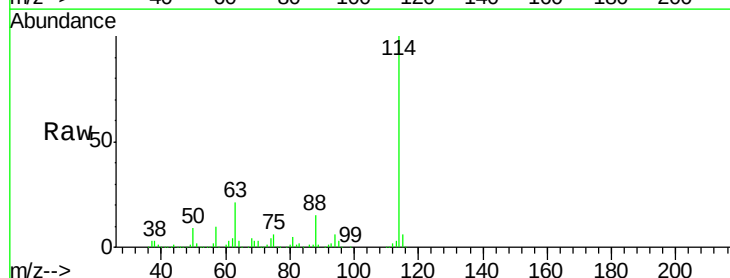
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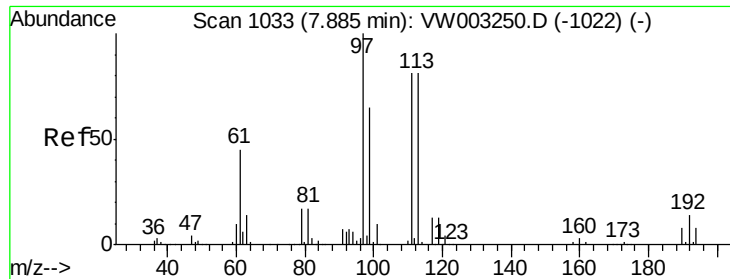
apatel
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#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.85 min Scan# 1191
 Delta R.T. 0.00 min
 Lab File: VW003666.D
 Acq: 29 Jun 2018 17:41

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	21.5	0.0	43.0	
88	15.2	0.0	29.6	





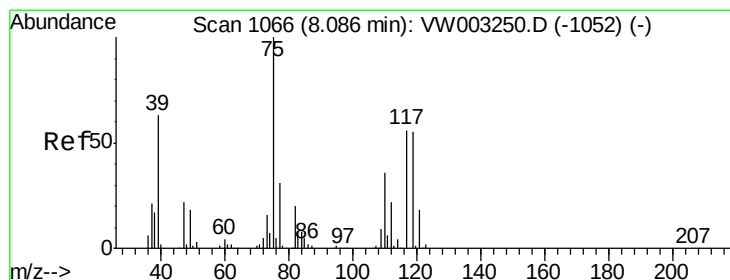
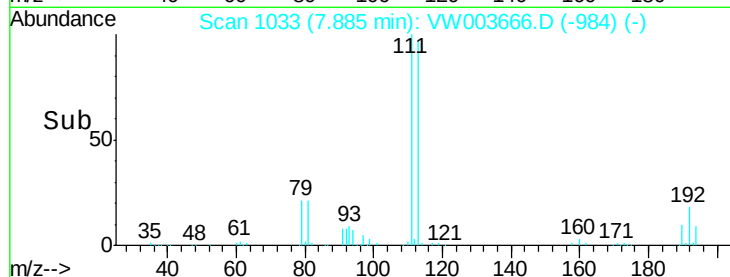
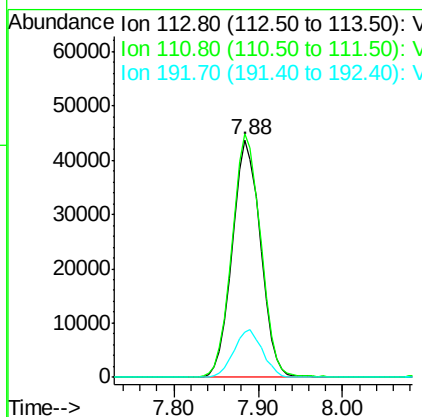
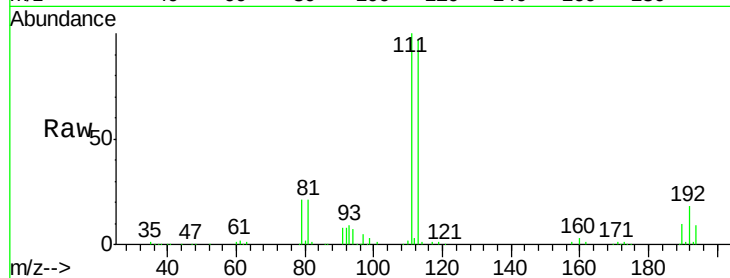
#35
 Dibromofluoromethane
 Concen: 53.14 ug/l
 RT: 7.88 min Scan# 1033
 Delta R.T. 0.00 min
 Lab File: VW003666.D
 Acq: 29 Jun 2018 17:41

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT3-2018

Tot Ion	Ratio	Lower	Upper
113	100		
111	104.2	82.2	123.2
192	20.3	16.2	24.2

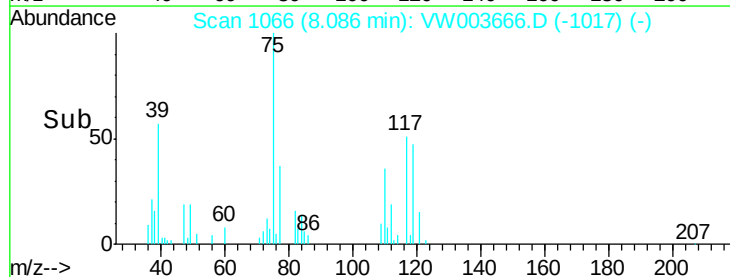
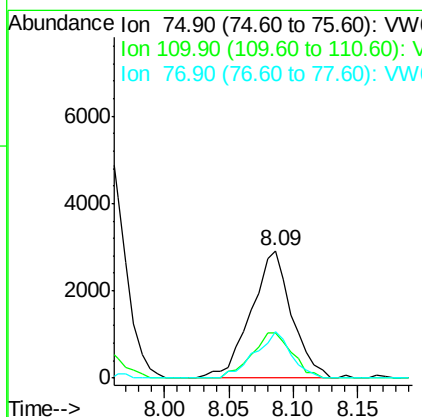
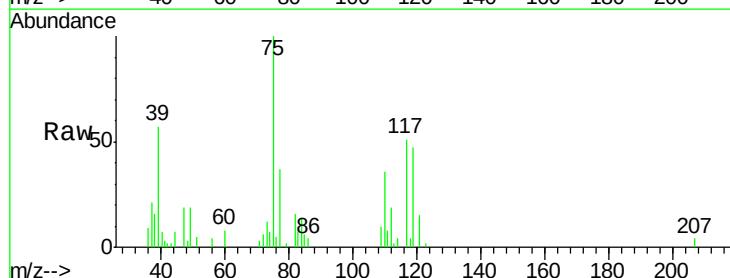
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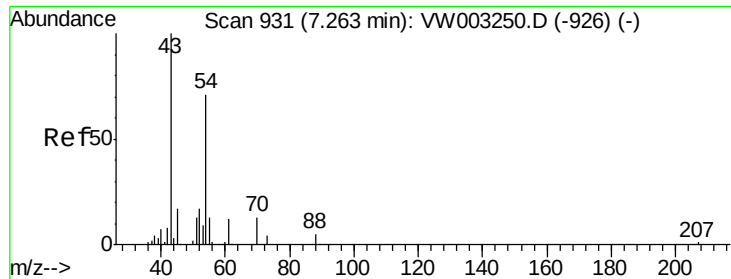
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#36
 1,1-Dichloropropene
 Concen: 2.19 ug/l
 RT: 8.09 min Scan# 1066
 Delta R.T. 0.00 min
 Lab File: VW003666.D
 Acq: 29 Jun 2018 17:41

Tgt Ion	Ratio	Lower	Upper
75	100		
110	35.2	17.1	51.3
77	32.8	24.9	37.3





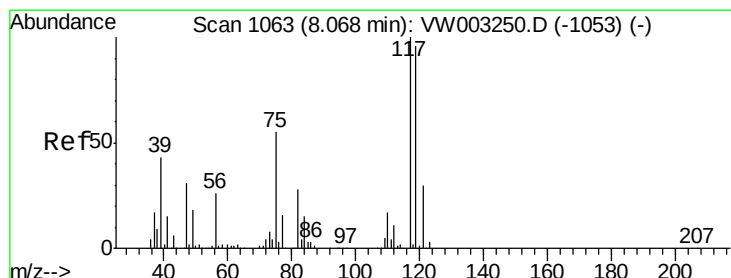
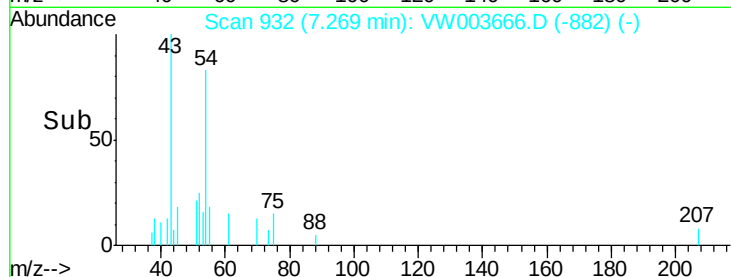
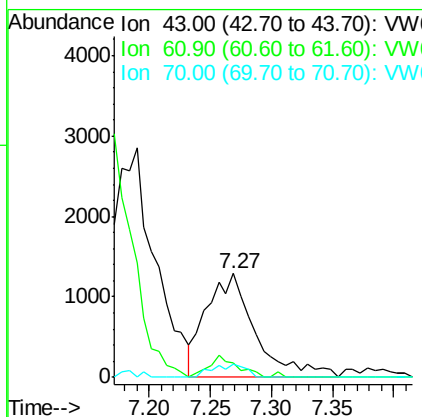
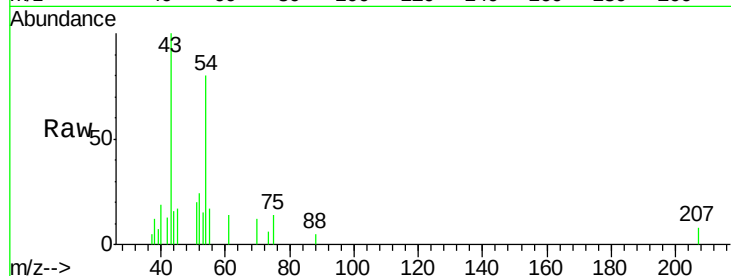
#37
Ethyl Acetate
Concen: 2.99 ug/l
RT: 7.27 min Scan# 932
Delta R.T. 0.01 min
Lab File: VW003666.D
Acq: 29 Jun 2018 17:41

Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT3-2018

Tot Ion	Ratio	Lower	Upper
43	100		
61	12.2	10.8	16.2
70	8.4	7.8	11.6

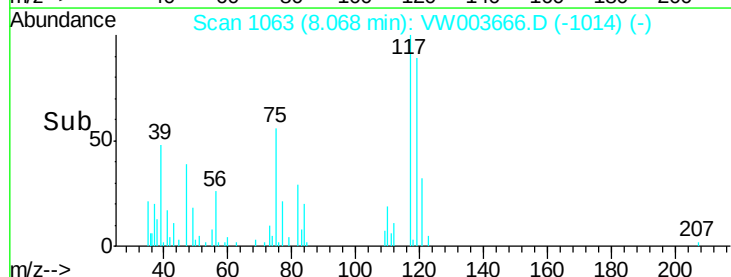
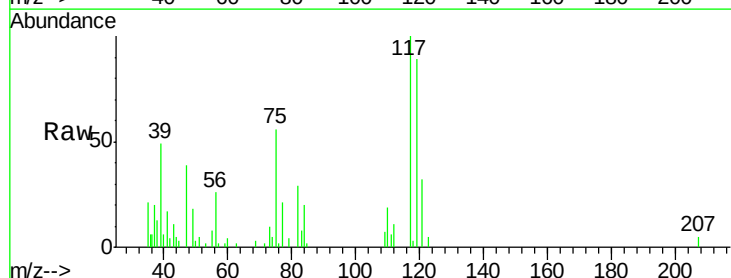
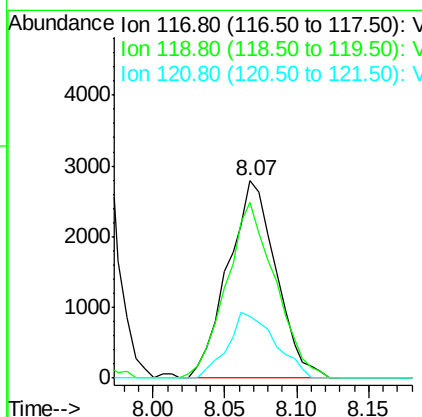
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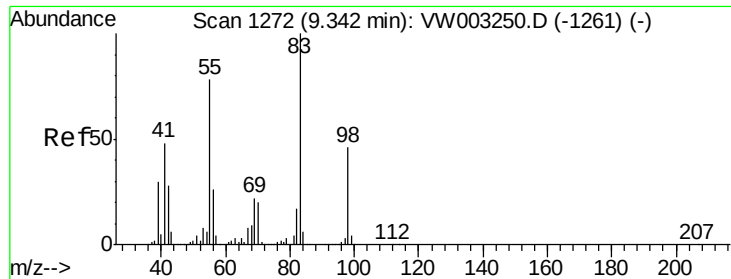
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#38
Carbon Tetrachloride
Concen: 2.27 ug/l
RT: 8.07 min Scan# 1063
Delta R.T. 0.00 min
Lab File: VW003666.D
Acq: 29 Jun 2018 17:41

Tgt Ion	Ratio	Lower	Upper
117	100		
119	89.4	76.6	115.0
121	31.7	23.9	35.9





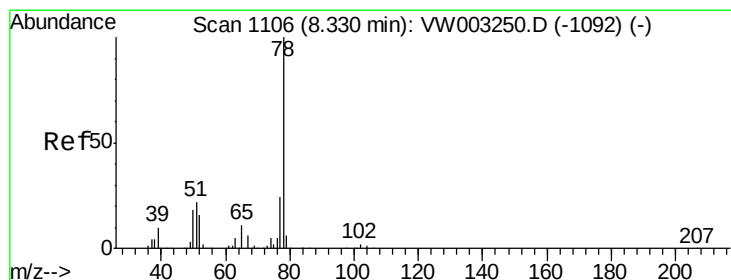
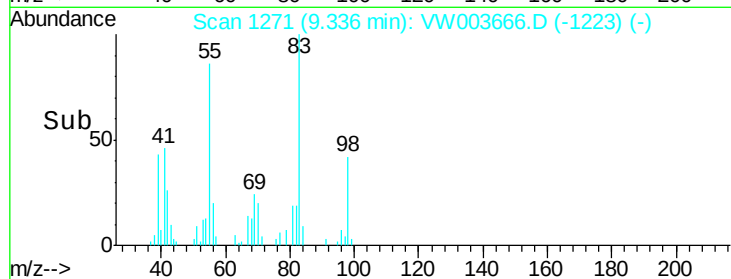
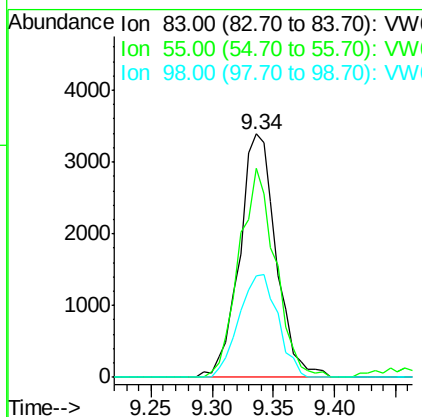
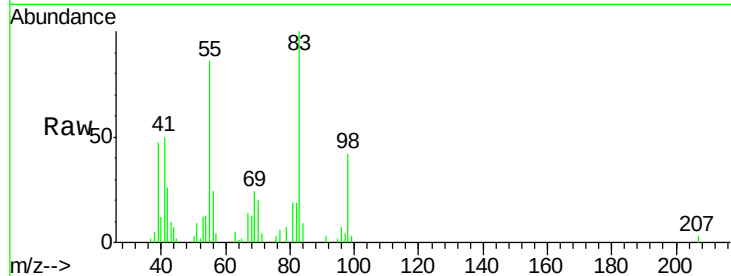
#39
Methylvlcyclohexane
Concen: 2.10 ug/l
RT: 9.34 min Scan# 1271
Delta R.T. -0.01 min
Lab File: VW003666.D
Acq: 29 Jun 2018 17:41

Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT3-2018

Tot Ion	Ratio	Lower	Upper
83	100		
55	85.8	62.6	93.8
98	41.9	37.0	55.4

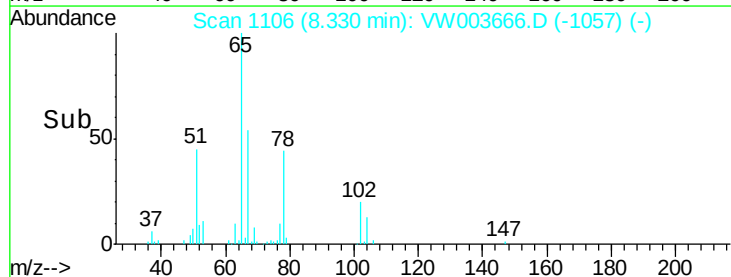
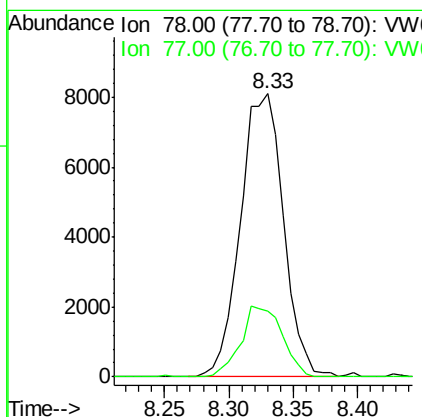
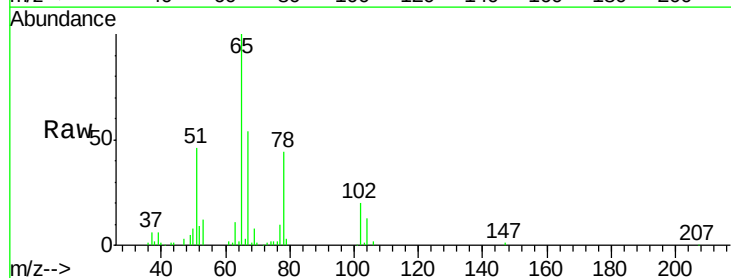
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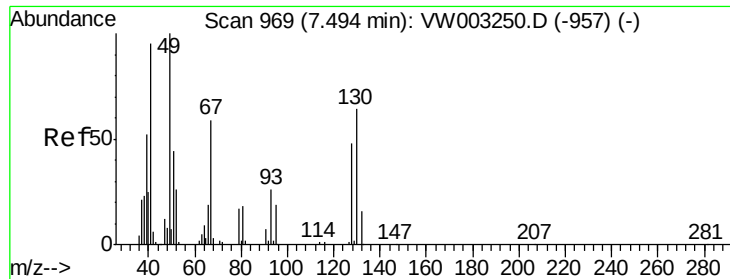
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#40
Benzene
Concen: 2.34 ug/l
RT: 8.33 min Scan# 1106
Delta R.T. 0.00 min
Lab File: VW003666.D
Acq: 29 Jun 2018 17:41

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.1	19.0	28.6





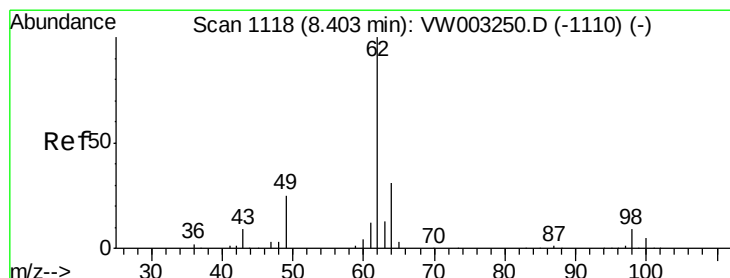
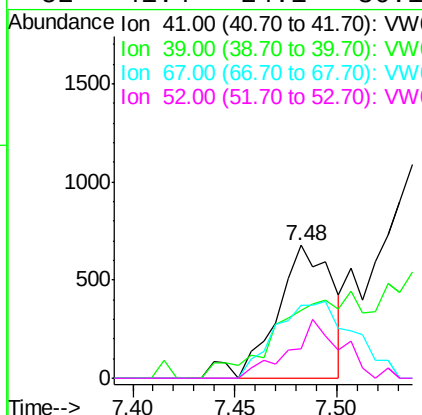
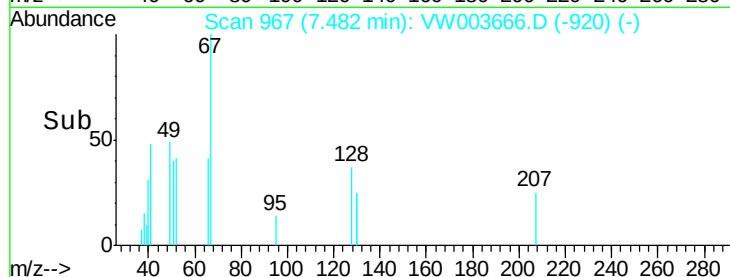
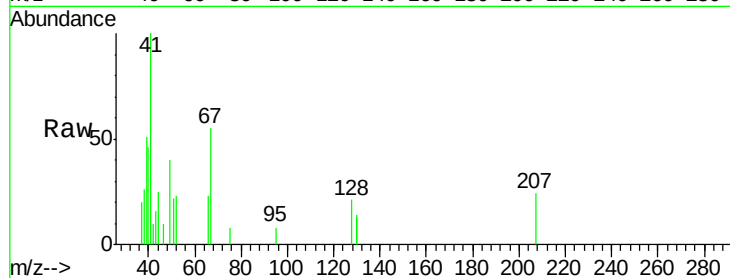
#41
Methacrylonitrile
Concen: 1.75 ug/l
RT: 7.48 min Scan# 967
Delta R.T. -0.01 min
Lab File: VW003666.D
Acq: 29 Jun 2018 17:41

Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT3-2018

Tot Ion	41	Resp:	1294
Ion Ratio	Lower	Upper	
41	100		
39	70.5	45.8	68.8#
67	79.9	52.3	78.5#
52	41.4	24.1	36.1#

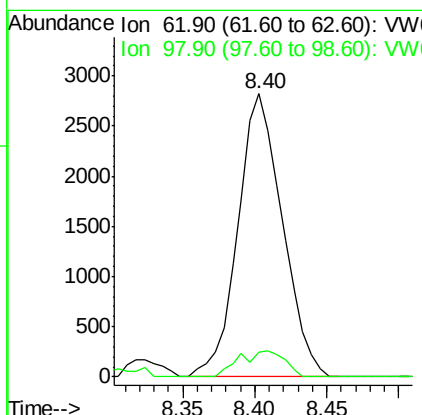
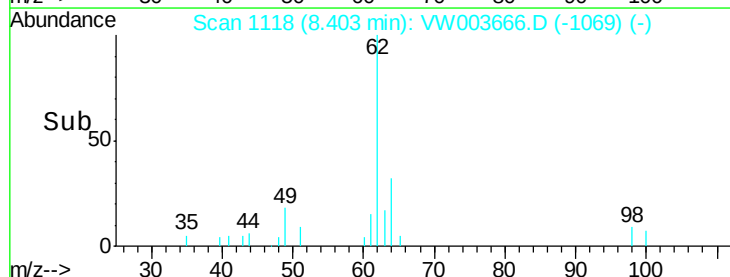
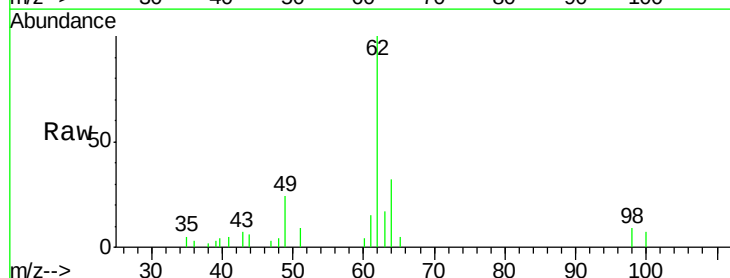
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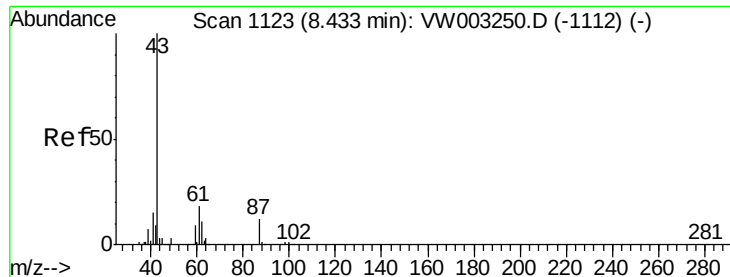
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#42
1,2-Dichloroethane
Concen: 2.41 ug/l
RT: 8.40 min Scan# 1118
Delta R.T. 0.00 min
Lab File: VW003666.D
Acq: 29 Jun 2018 17:41

Tgt Ion	62	Resp:	6041
Ion Ratio	Lower	Upper	
62	100		
98	9.4	0.0	17.2





#43

Isopropyl Acetate

Concen: 2.24 ug/l

RT: 8.43 min Scan# 1123

Delta R.T. 0.00 min

Lab File: VW003666.D

Acq: 29 Jun 2018 17:41

Instrument :

MSVOA_W

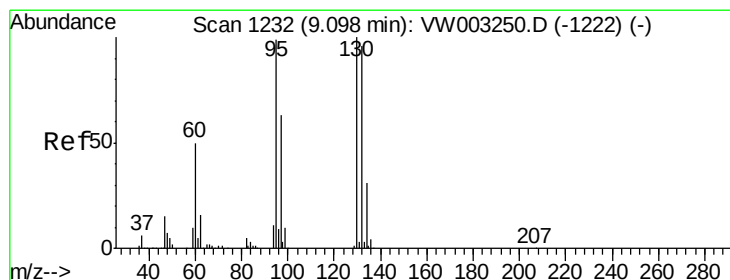
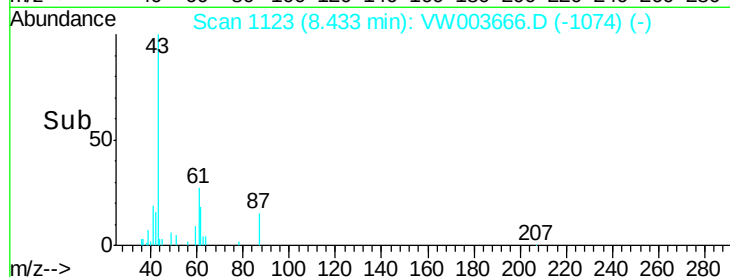
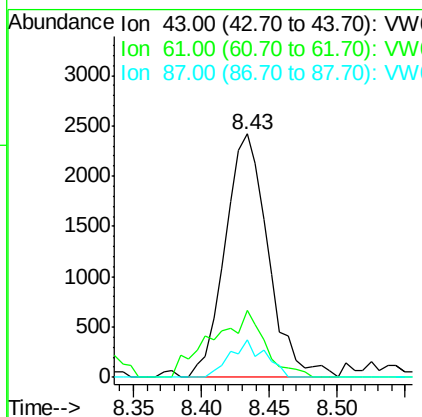
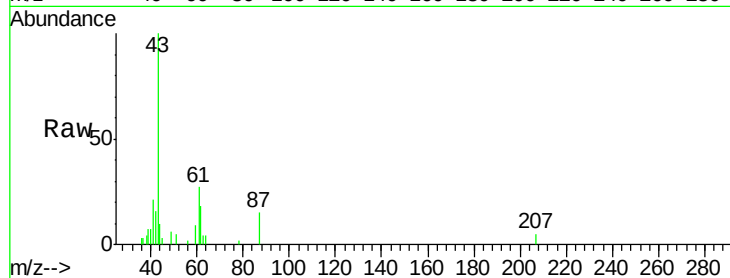
ClientSampleId :

MDL-SOIL-03-QT3-2018

Tot Ion:	43	Resp:	5338
Ion	Ratio	Lower	Upper
43	100		
61	33.8	23.1	34.7
87	12.3	9.8	14.6

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#44

Trichloroethene

Concen: 2.29 ug/l

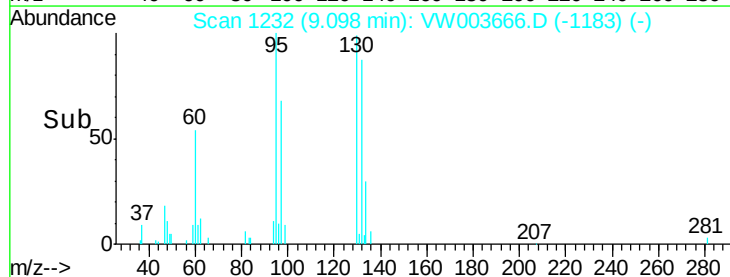
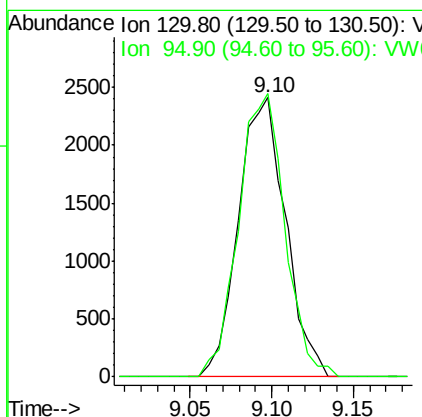
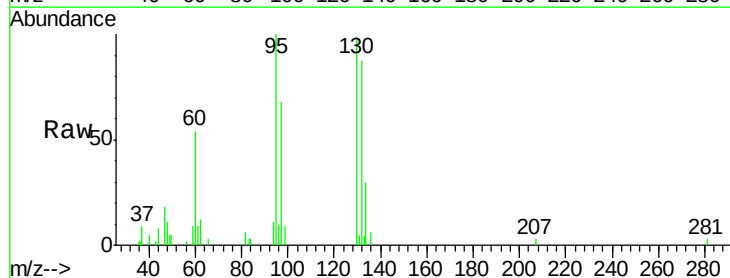
RT: 9.10 min Scan# 1232

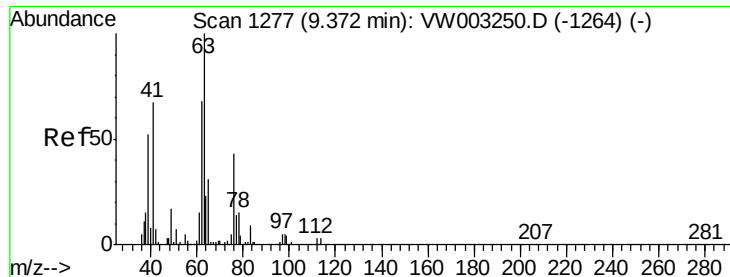
Delta R.T. 0.00 min

Lab File: VW003666.D

Acq: 29 Jun 2018 17:41

Tgt Ion:	130	Resp:	4850
Ion	Ratio	Lower	Upper
130	100		
95	101.3	0.0	198.0





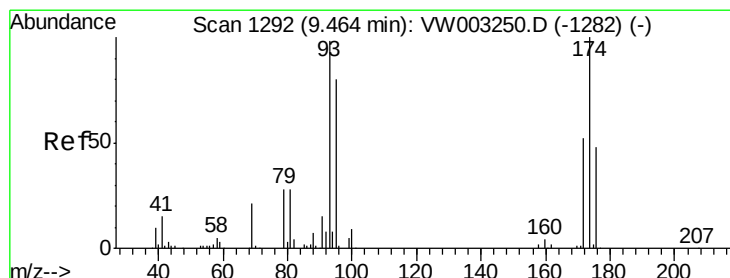
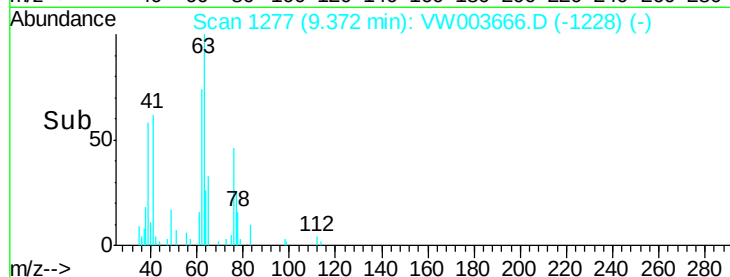
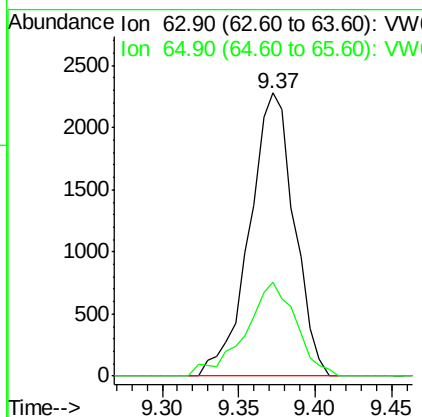
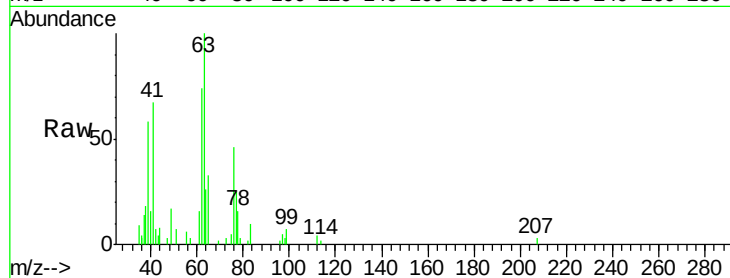
#45
 1,2-Dichloropropane
 Concen: 2.28 ug/l
 RT: 9.37 min Scan# 1277
 Delta R.T. 0.00 min
 Lab File: VW003666.D
 Acq: 29 Jun 2018 17:41

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT3-2018

Tot Ion	Ratio	Lower	Upper
63	100		
65	33.3	25.1	37.7

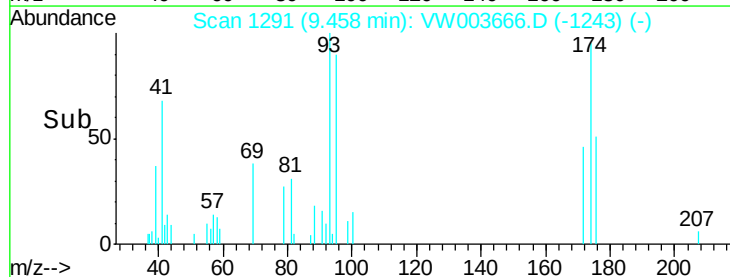
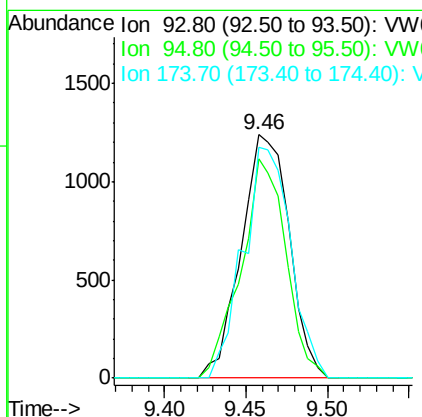
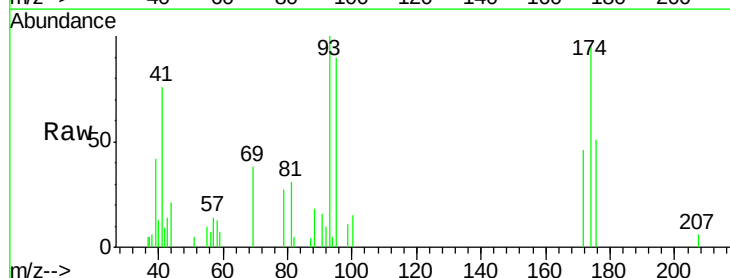
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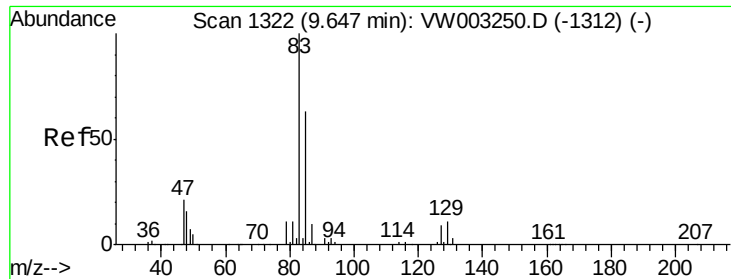
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#46
 Dibromomethane
 Concen: 2.44 ug/l
 RT: 9.46 min Scan# 1291
 Delta R.T. -0.01 min
 Lab File: VW003666.D
 Acq: 29 Jun 2018 17:41

Tgt Ion	Ratio	Lower	Upper
93	100		
95	84.4	65.8	98.8
174	94.1	81.4	122.0





#47

Bromodichloromethane

Concen: 2.29 ug/l

RT: 9.65 min Scan# 1322

Delta R.T. 0.00 min

Lab File: VW003666.D

Acq: 29 Jun 2018 17:41

Instrument :

MSVOA_W

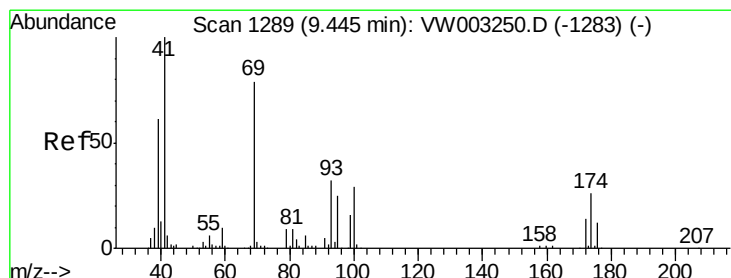
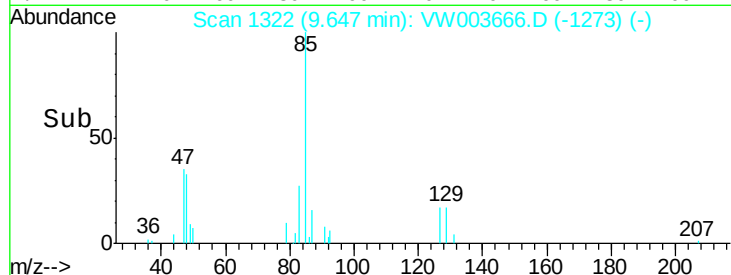
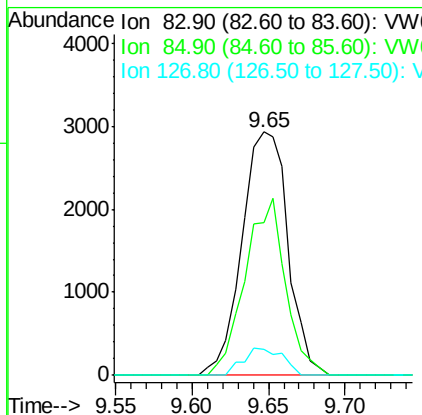
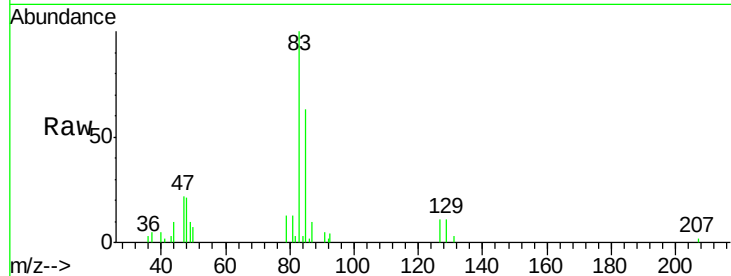
ClientSampleId :

MDL-SOIL-03-QT3-2018

Tot Ion:	83	Resp:	6112
Ion	Ratio	Lower	Upper
83	100		
85	62.8	50.6	75.8
127	10.8	6.8	10.2#

Manual Integrations
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#48

Methyl methacrylate

Concen: 2.03 ug/l

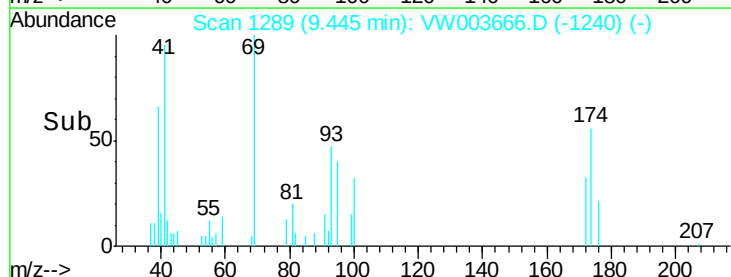
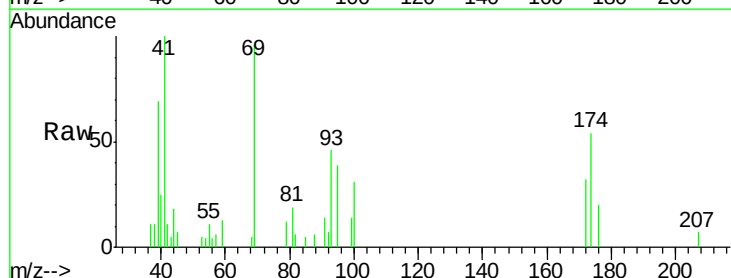
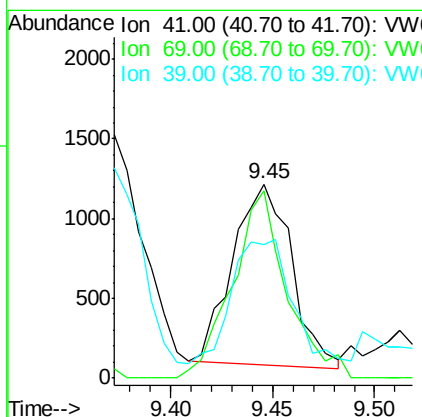
RT: 9.45 min Scan# 1289

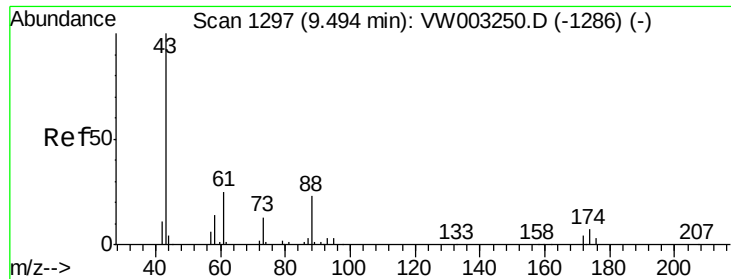
Delta R.T. 0.00 min

Lab File: VW003666.D

Acq: 29 Jun 2018 17:41

Tgt Ion:	41	Resp:	2278
Ion	Ratio	Lower	Upper
41	100		
69	95.9	65.4	98.2
39	88.0	54.2	81.2#





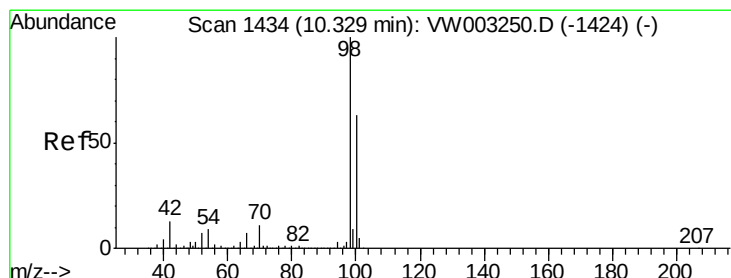
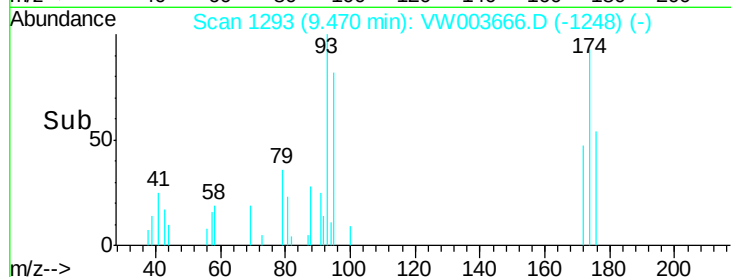
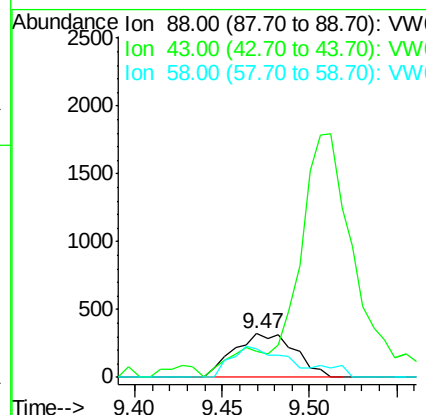
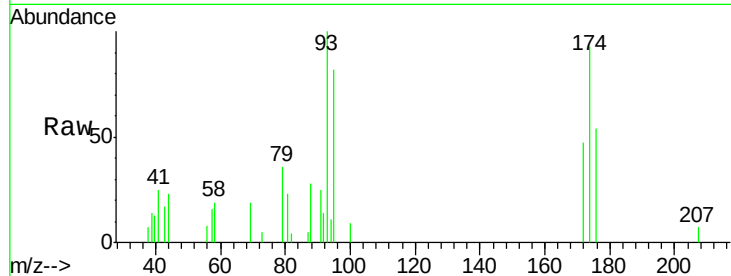
#49
1,4-Dioxane
Concen: 49.57 ug/l
RT: 9.47 min Scan# 1293
Delta R.T. -0.02 min
Lab File: VW003666.D
Acq: 29 Jun 2018 17:41

Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT3-2018

Tot Ion	88	Resp	780
Ion	Ratio	Lower	Upper
88	100		
43	44.2	454.7	682.1#
58	62.9	58.6	88.0

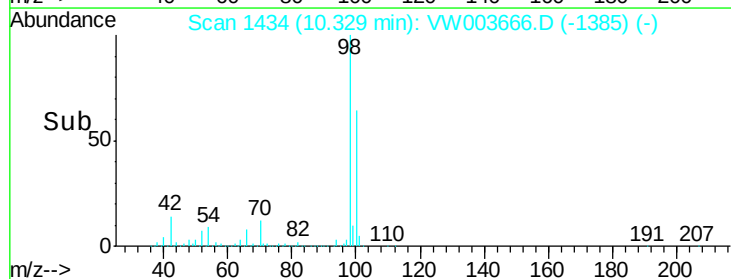
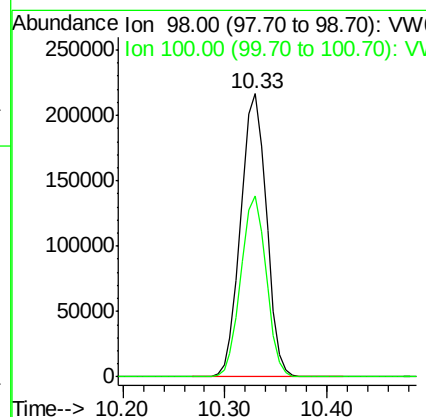
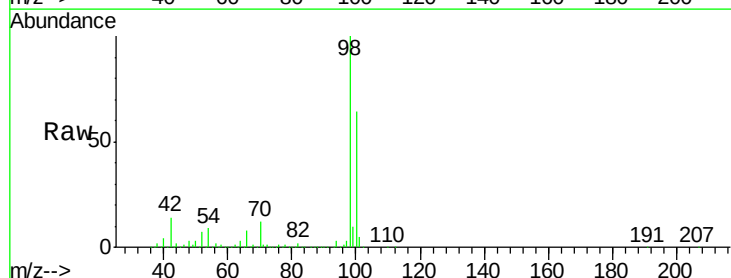
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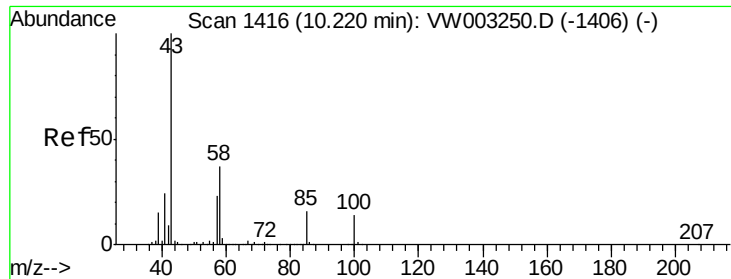
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#50
Toluene-d8
Concen: 51.12 ug/l
RT: 10.33 min Scan# 1434
Delta R.T. 0.00 min
Lab File: VW003666.D
Acq: 29 Jun 2018 17:41

Tgt Ion	98	Resp	378331
Ion	Ratio	Lower	Upper
98	100		
100	63.0	50.8	76.2





#51

4-Methyl-2-Pentanone

Concen: 10.91 ug/l

RT: 10.21 min Scan# 1415

Delta R.T. -0.01 min

Lab File: VW003666.D

Acq: 29 Jun 2018 17:41

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT3-2018

Tot Ion: 43 Resp: 13260

Ion Ratio Lower Upper

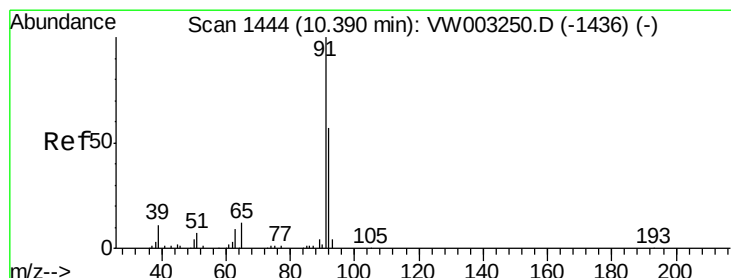
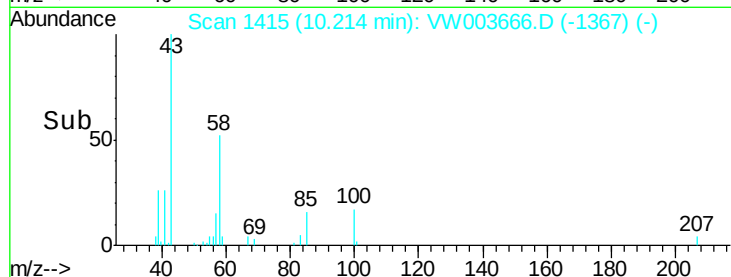
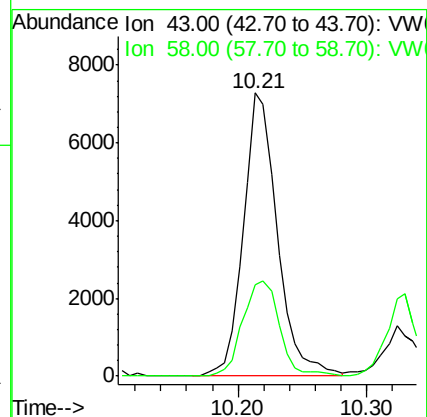
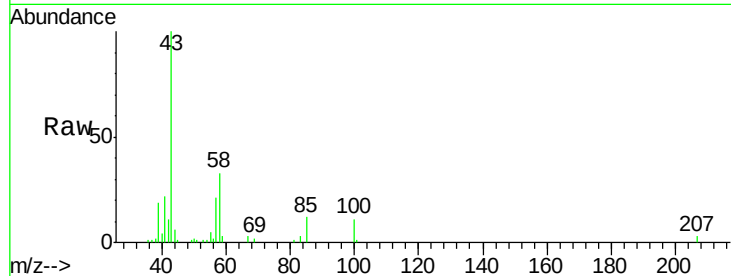
43 100

58 36.6 29.0 43.4

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#52

Toluene

Concen: 2.33 ug/l

RT: 10.39 min Scan# 1444

Delta R.T. 0.00 min

Lab File: VW003666.D

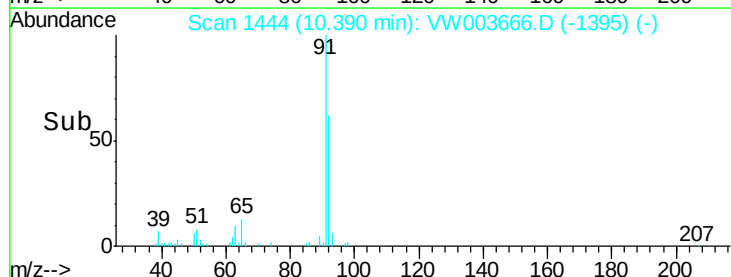
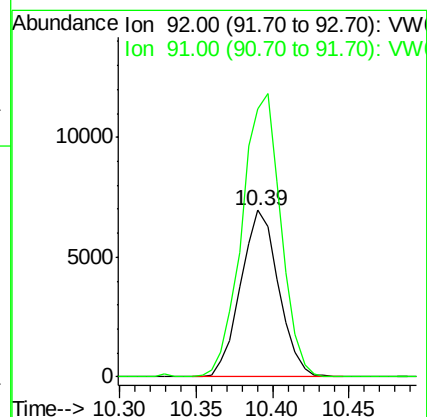
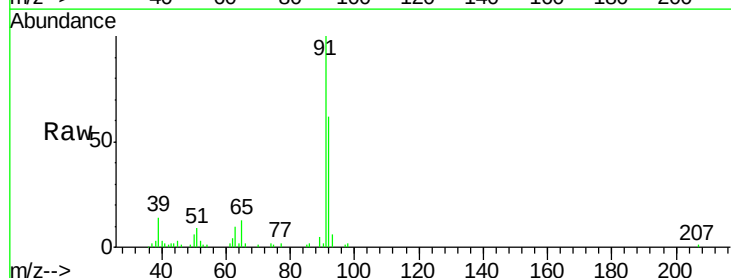
Acq: 29 Jun 2018 17:41

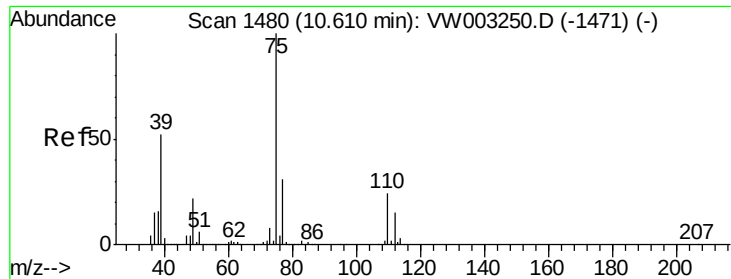
Tgt Ion: 92 Resp: 11950

Ion Ratio Lower Upper

92 100

91 174.4 141.1 211.7





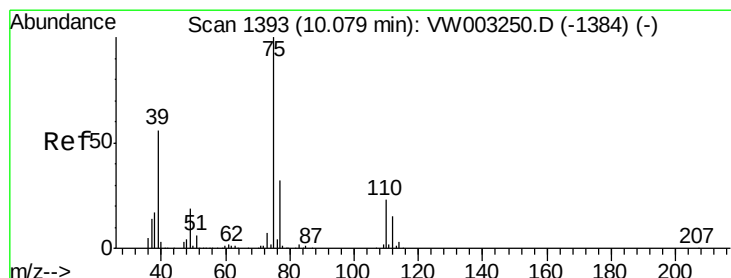
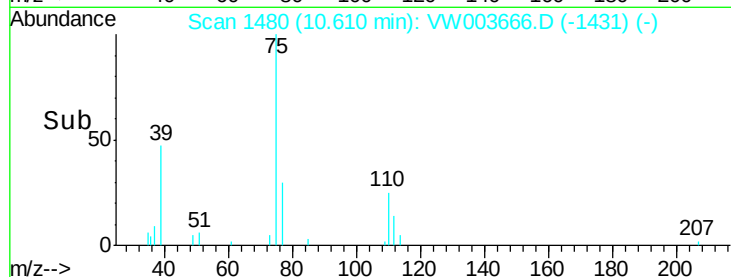
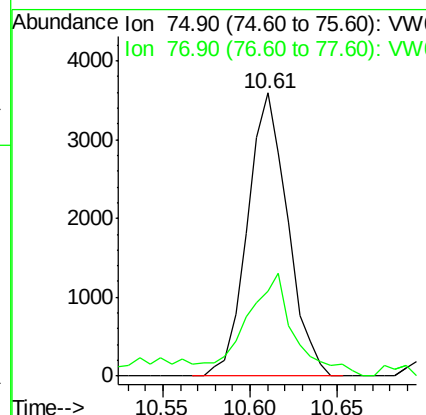
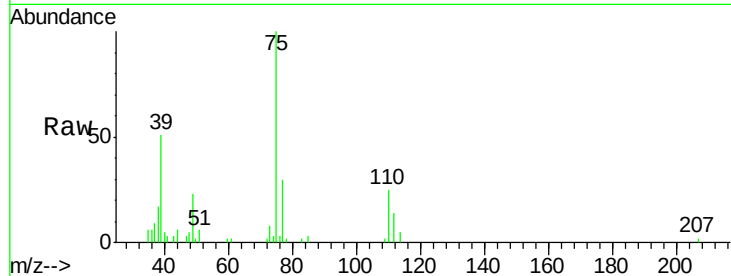
#53
t-1,3-Dichloropropene
Concen: 2.10 ug/l
RT: 10.61 min Scan# 1480
Delta R.T. 0.00 min
Lab File: VW003666.D
Acq: 29 Jun 2018 17:41

Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT3-2018

Tot Ion: 75 Resp: 5742
Ion Ratio Lower Upper
75 100
77 25.9 24.9 37.3

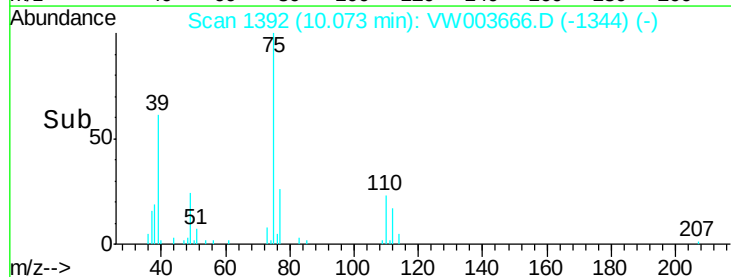
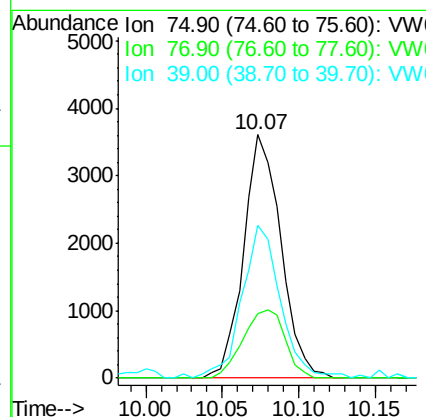
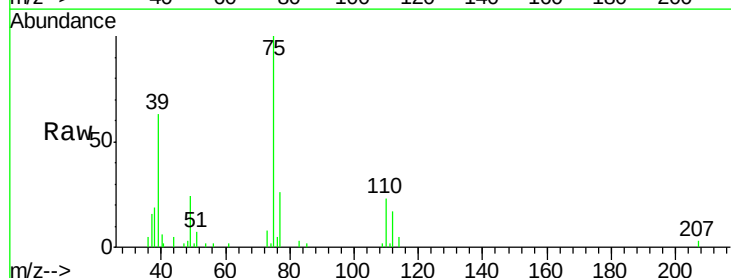
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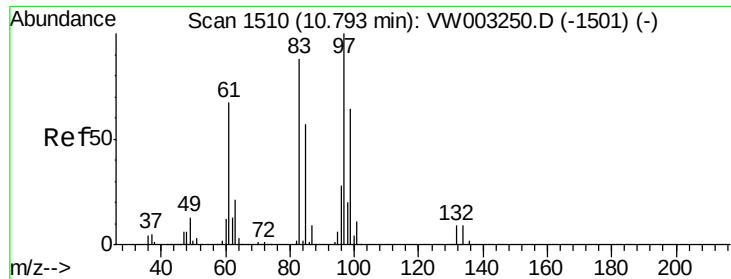
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#54
cis-1,3-Dichloropropene
Concen: 1.97 ug/l
RT: 10.07 min Scan# 1392
Delta R.T. -0.01 min
Lab File: VW003666.D
Acq: 29 Jun 2018 17:41

Tgt Ion: 75 Resp: 6132
Ion Ratio Lower Upper
75 100
77 26.4 25.8 38.6
39 63.0 45.2 67.8





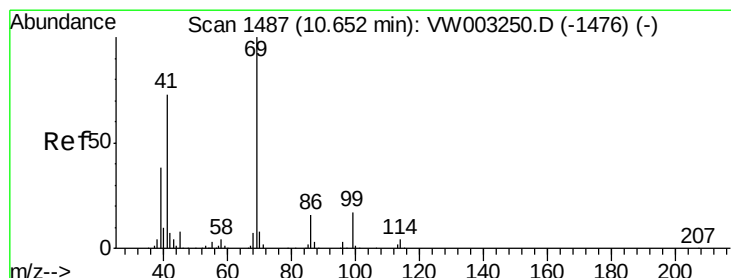
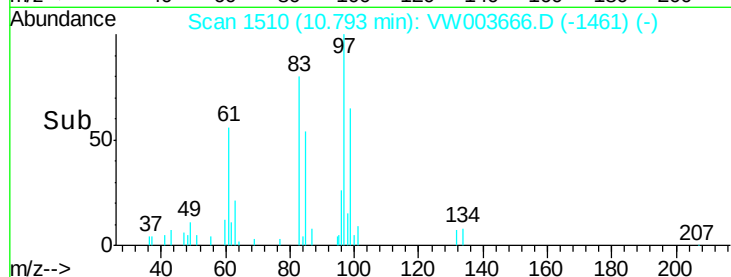
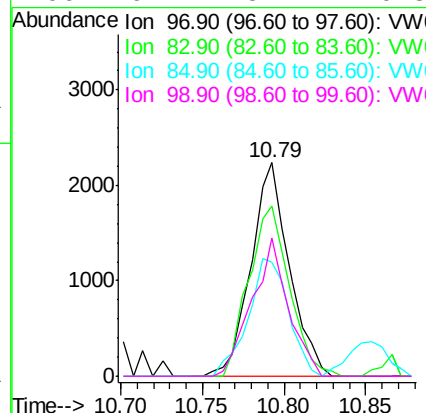
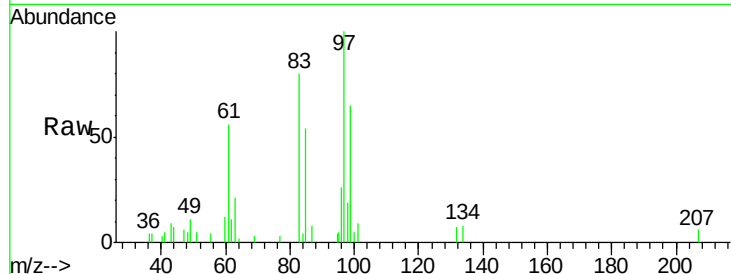
#55
 1,1,2-Trichloroethane
 Concen: 2.50 ug/l
 RT: 10.79 min Scan# 1510
 Delta R.T. 0.00 min
 Lab File: VW003666.D
 Acq: 29 Jun 2018 17:41

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT3-2018

Tot Ion	Ratio	Lower	Upper
97	100		
83	79.5	70.2	105.2
85	53.5	45.6	68.4
99	64.7	51.2	76.8

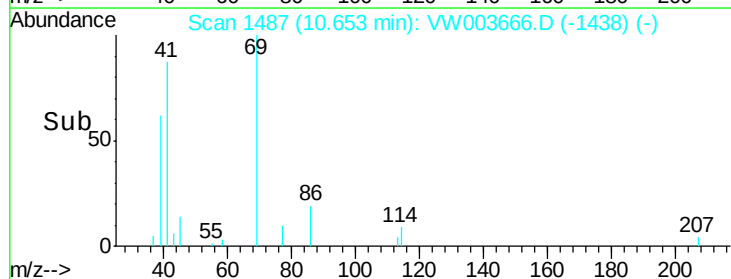
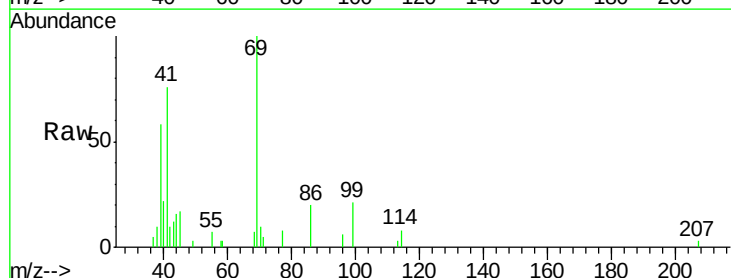
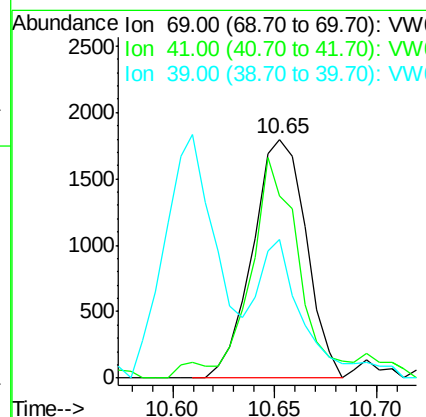
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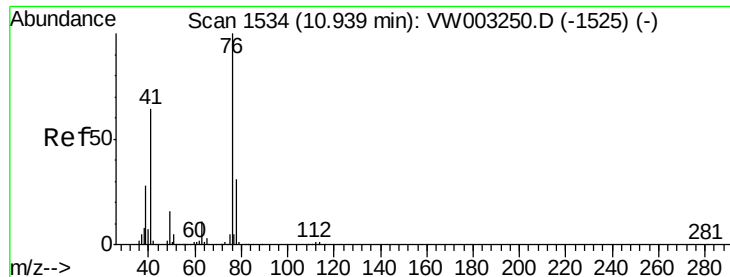
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#56
 Ethyl methacrylate
 Concen: 1.84 ug/l
 RT: 10.65 min Scan# 1487
 Delta R.T. 0.00 min
 Lab File: VW003666.D
 Acq: 29 Jun 2018 17:41

Tgt Ion	Ratio	Lower	Upper
69	100		
41	84.7	57.8	86.6
39	51.0	32.7	49.1#





#57

1,3-Dichloropropane

Concen: 2.28 ug/l

RT: 10.94 min Scan# 1534

Delta R.T. 0.00 min

Lab File: VW003666.D

Acq: 29 Jun 2018 17:41

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT3-2018

Tot Ion: 76 Resp: 5786

Ion Ratio Lower Upper

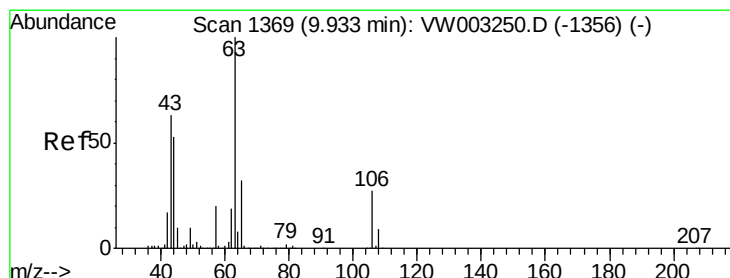
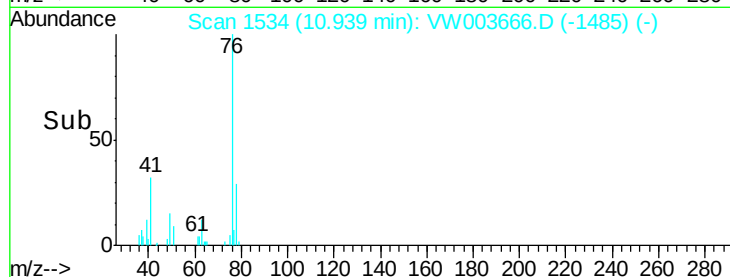
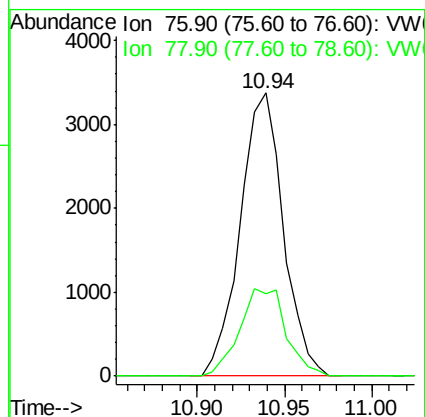
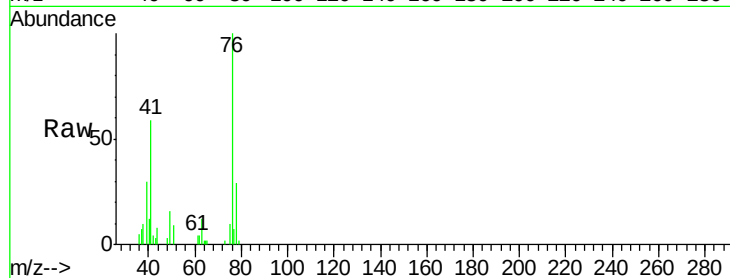
76 100

78 33.3 25.7 38.5

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7/2/2018 10:30:58 AM



#58

2-Chloroethyl Vinyl ether

Concen: 8.94 ug/l

RT: 9.93 min Scan# 1368

Delta R.T. -0.01 min

Lab File: VW003666.D

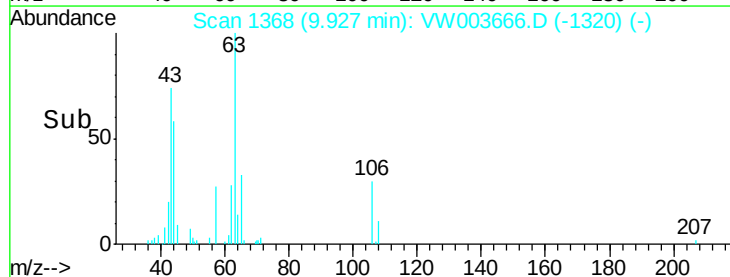
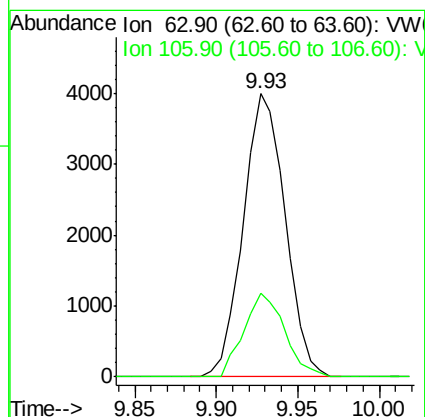
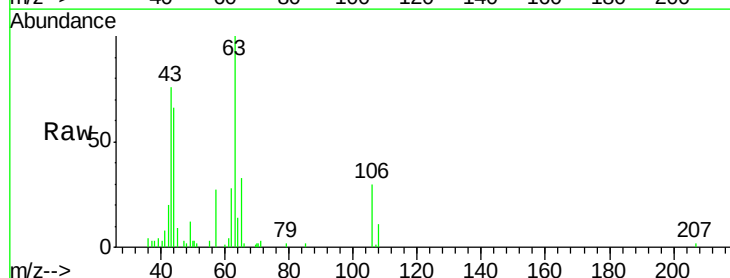
Acq: 29 Jun 2018 17:41

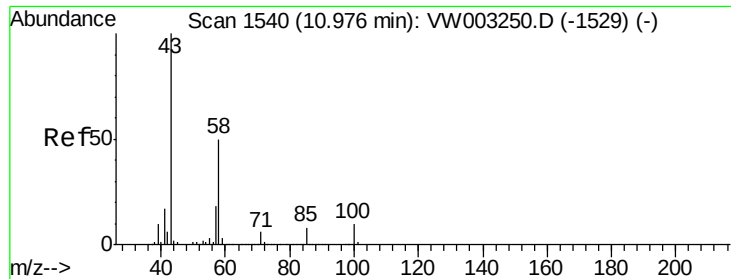
Tgt Ion: 63 Resp: 7149

Ion Ratio Lower Upper

63 100

106 28.7 21.8 32.8





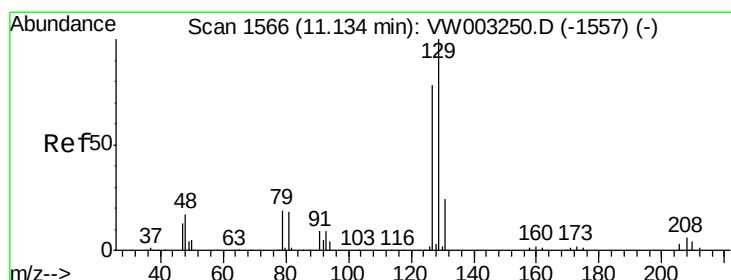
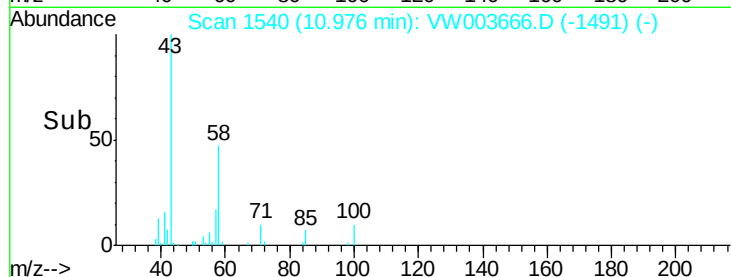
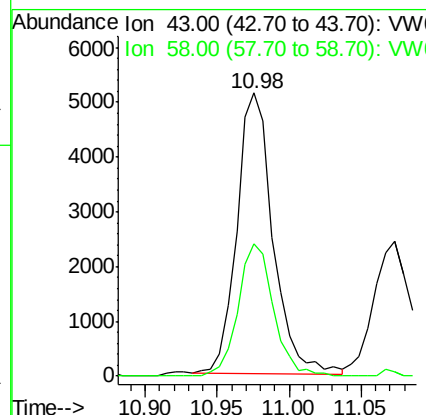
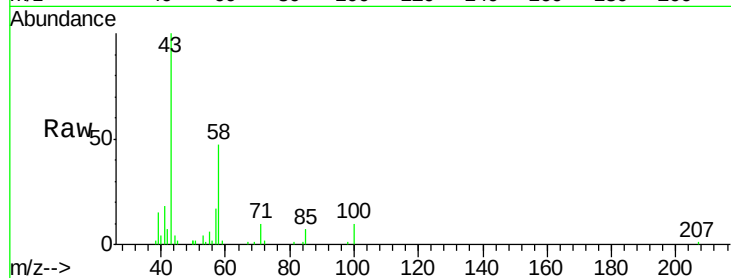
#59
2-Hexanone
Concen: 10.52 ug/l
RT: 10.98 min Scan# 1540
Delta R.T. 0.00 min
Lab File: VW003666.D
Acq: 29 Jun 2018 17:41

Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT3-2018

Tot Ion: 43 Resp: 8932
Ion Ratio Lower Upper
43 100
58 46.1 25.0 75.0

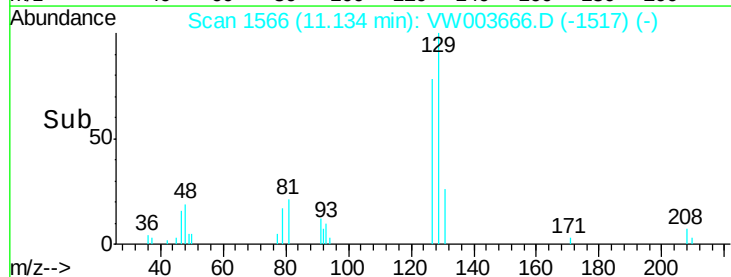
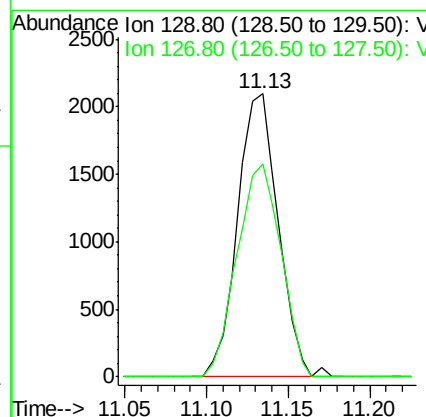
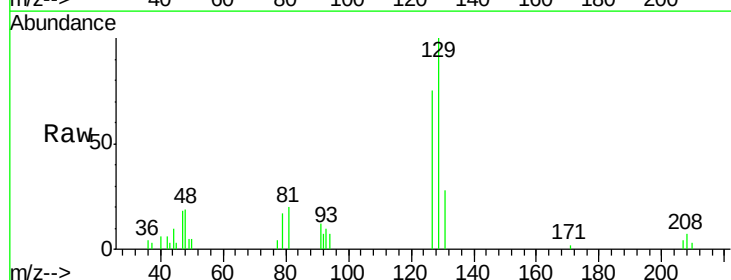
Manual Integrations
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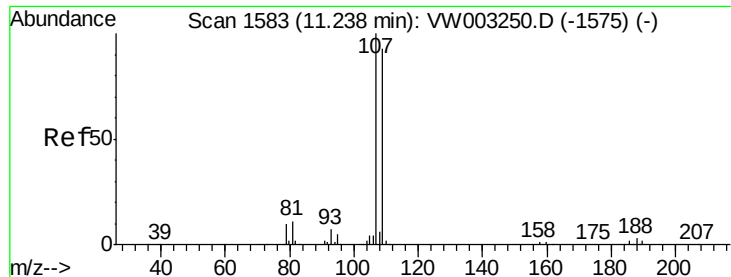
apatel
7/2/2018 10:30:58 AM



#60
Dibromochloromethane
Concen: 2.09 ug/l
RT: 11.13 min Scan# 1566
Delta R.T. 0.00 min
Lab File: VW003666.D
Acq: 29 Jun 2018 17:41

Tgt Ion: 129 Resp: 3645
Ion Ratio Lower Upper
129 100
127 81.1 39.1 117.5





#61

1,2-Dibromoethane

Concen: 2.28 ug/l

RT: 11.24 min Scan# 1583

Delta R.T. 0.00 min

Lab File: VW003666.D

Acq: 29 Jun 2018 17:41

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT3-2018

Tot Ion: 107 Resp: 3173

Ion Ratio Lower Upper

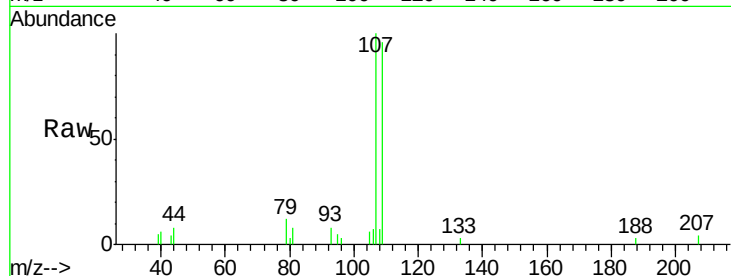
107 100

109 91.3 75.8 113.6

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Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

11.24

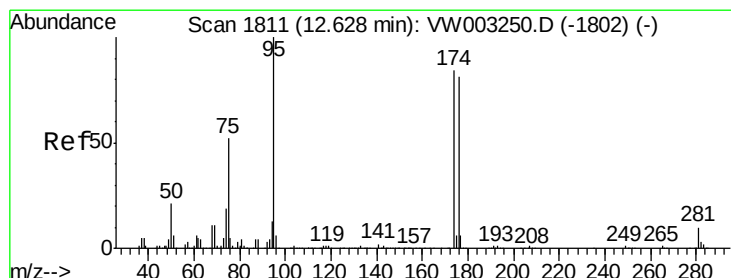
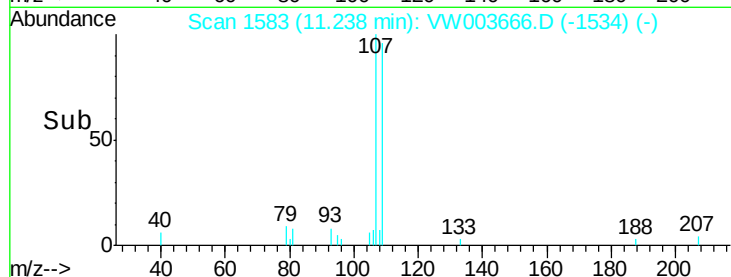
1500

1000

500

0

Time-->



#62

4-Bromofluorobenzene

Concen: 50.37 ug/l

RT: 12.62 min Scan# 1810

Delta R.T. -0.01 min

Lab File: VW003666.D

Acq: 29 Jun 2018 17:41

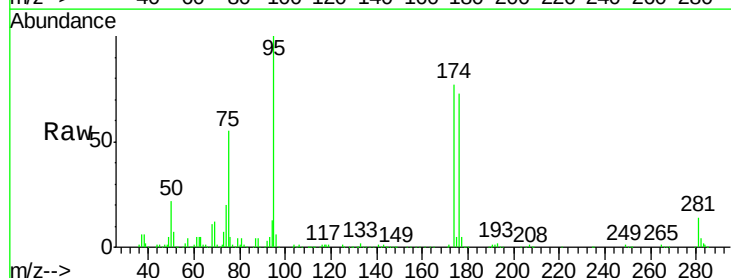
Tgt Ion: 95 Resp: 131918

Ion Ratio Lower Upper

95 100

174 82.5 0.0 166.4

176 78.9 0.0 162.0



Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

12.62

100000

80000

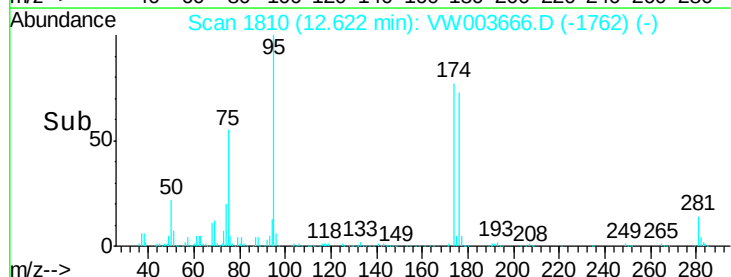
60000

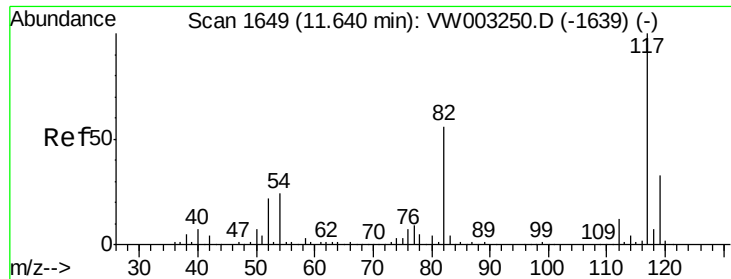
40000

20000

0

Time-->





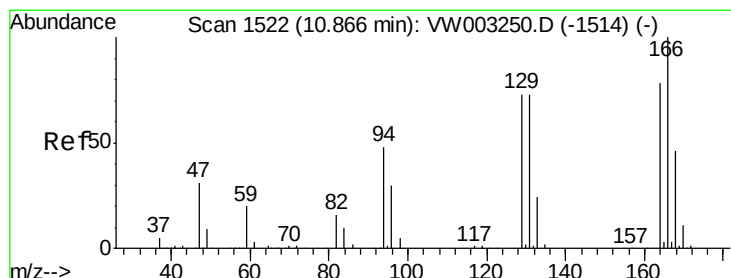
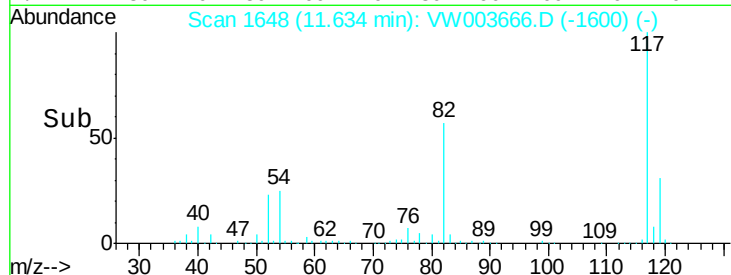
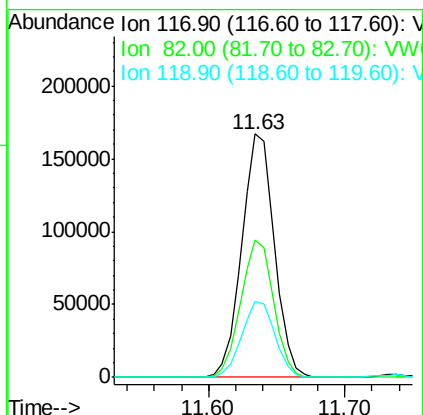
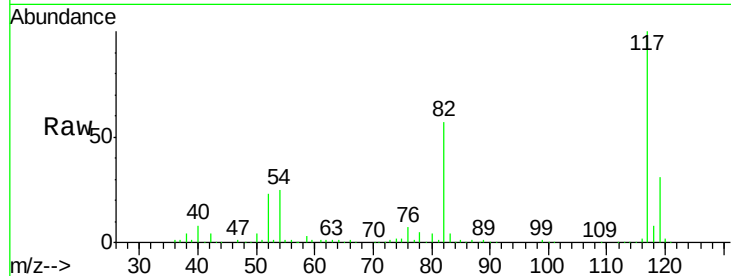
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.63 min Scan# 1648
Delta R.T. -0.01 min
Lab File: VW003666.D
Acq: 29 Jun 2018 17:41

Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT3-2018

Tot Ion	Ratio	Lower	Upper
117	100		
82	56.6	44.6	67.0
119	31.4	26.7	40.1

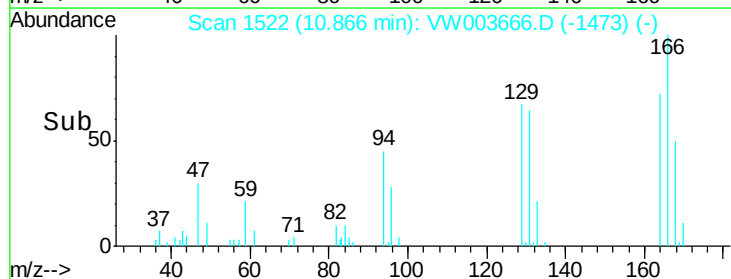
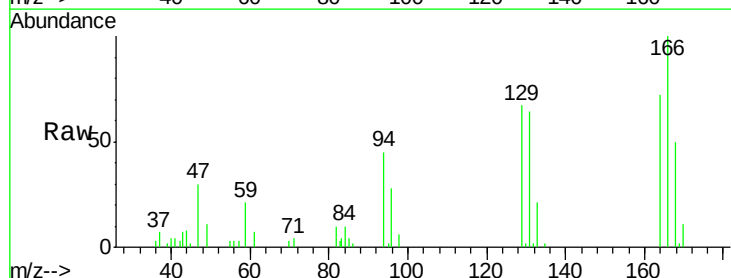
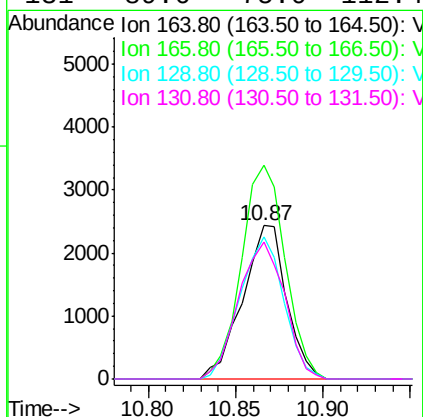
Manual Integrations
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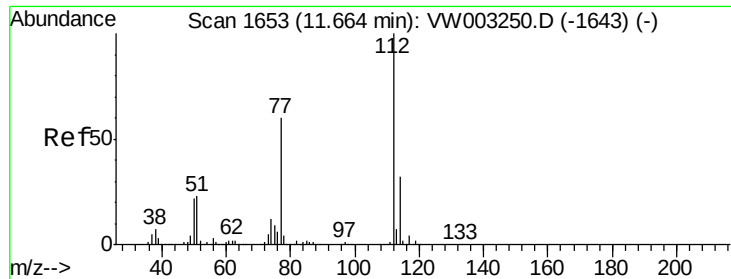
apatel
7/2/2018 10:30:58 AM



#64
Tetrachloroethene
Concen: 2.27 ug/l
RT: 10.87 min Scan# 1522
Delta R.T. 0.00 min
Lab File: VW003666.D
Acq: 29 Jun 2018 17:41

Tgt Ion	Ratio	Lower	Upper
164	100		
166	139.5	102.6	154.0
129	93.1	75.2	112.8
131	89.6	75.0	112.4





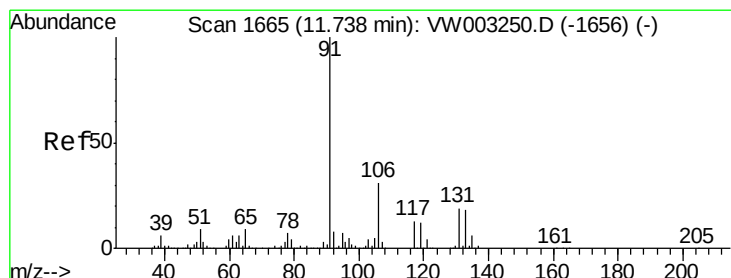
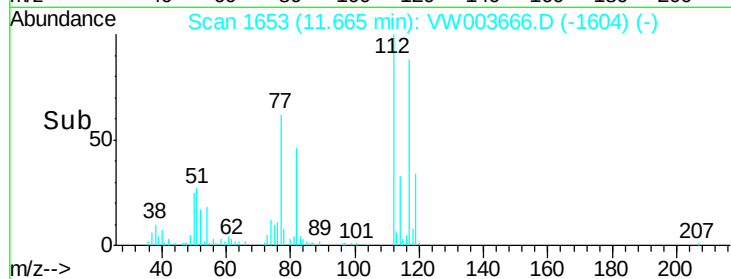
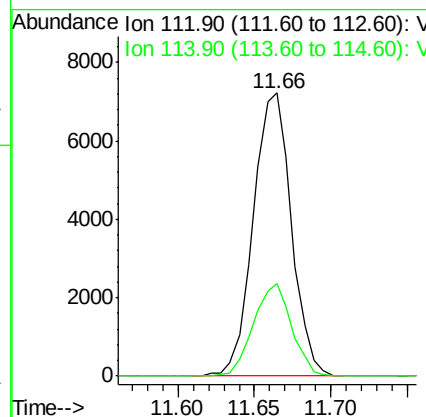
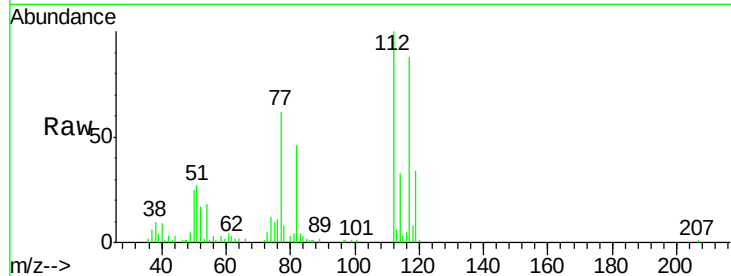
#65
Chlorobenzene
Concen: 2.15 ug/l
RT: 11.66 min Scan# 1653
Delta R.T. 0.00 min
Lab File: VW003666.D
Acq: 29 Jun 2018 17:41

Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT3-2018

Tot Ion	Ratio	Lower	Upper
112	100		
114	32.6	25.9	38.9

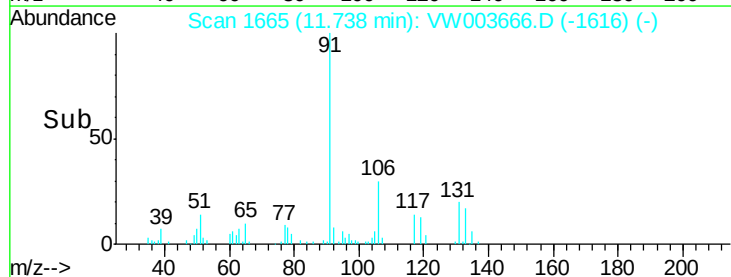
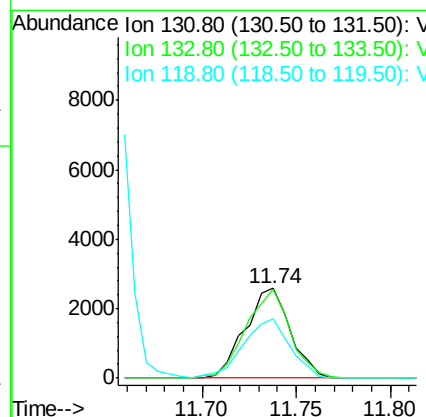
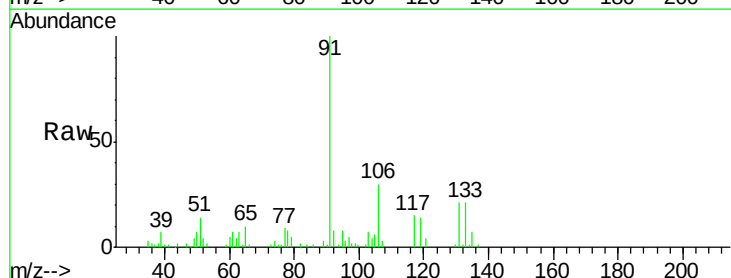
Manual Integrations
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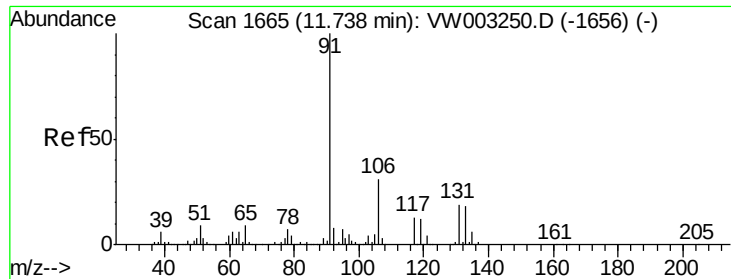
apatel
7/2/2018 10:30:58 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 2.09 ug/l
RT: 11.74 min Scan# 1665
Delta R.T. 0.00 min
Lab File: VW003666.D
Acq: 29 Jun 2018 17:41

Tgt Ion	Ratio	Lower	Upper
131	100		
133	97.1	47.3	142.0
119	68.9	32.5	97.4





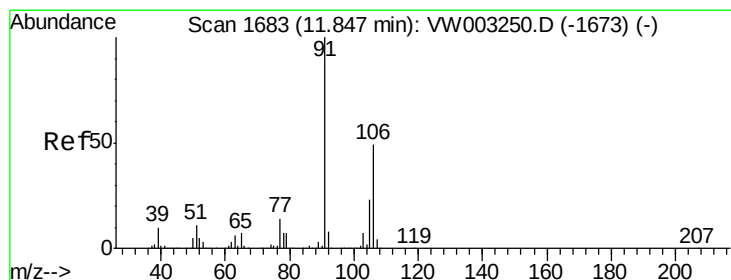
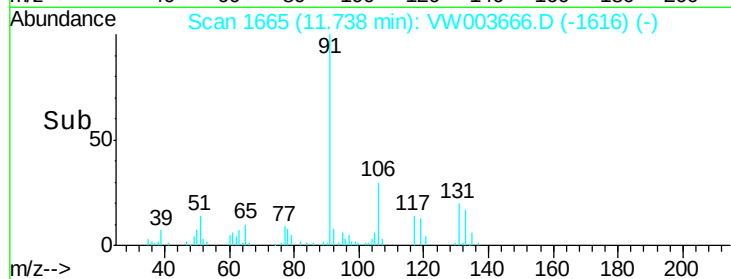
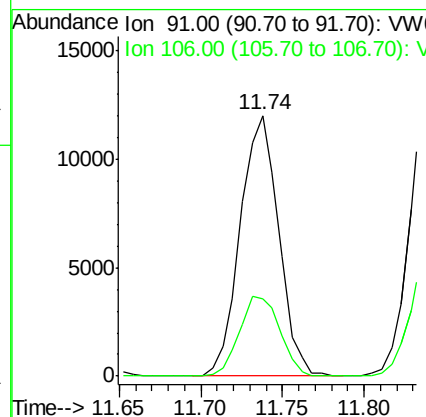
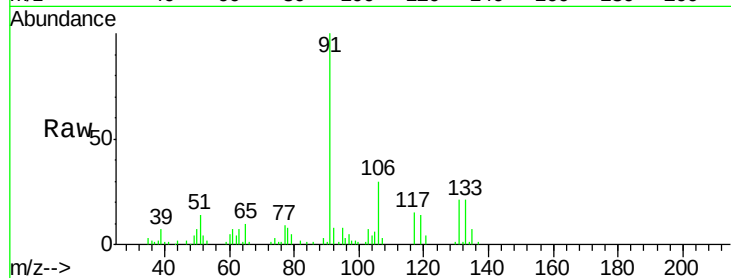
#67
Ethyl Benzene
Concen: 1.91 ug/l
RT: 11.74 min Scan# 1665
Delta R.T. 0.00 min
Lab File: VW003666.D
Acq: 29 Jun 2018 17:41

Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT3-2018

Tot Ion: 91 Resp: 19724
Ion Ratio Lower Upper
91 100
106 29.5 24.7 37.1

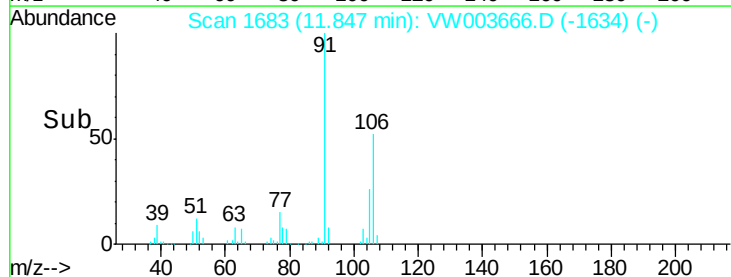
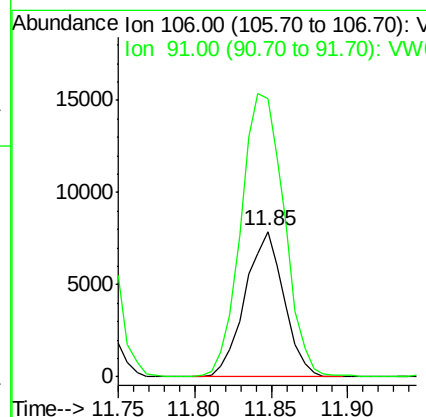
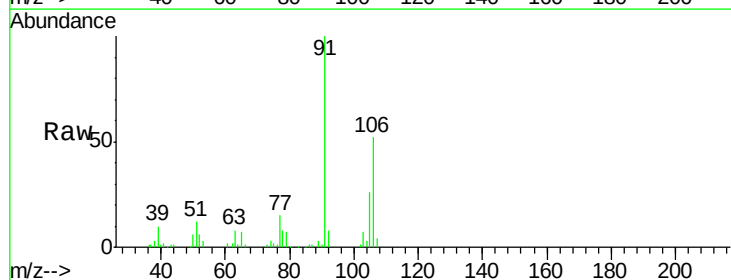
Manual Integrations
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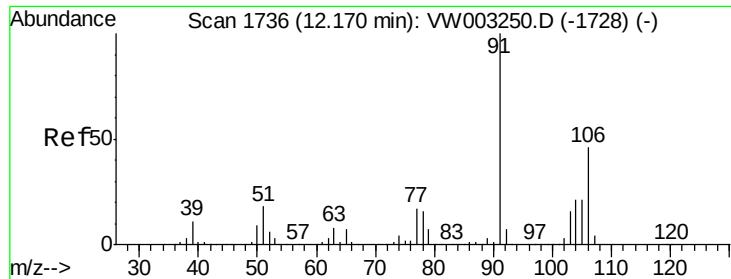
apatel
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#68
m/p-Xylenes
Concen: 3.56 ug/l
RT: 11.85 min Scan# 1683
Delta R.T. 0.00 min
Lab File: VW003666.D
Acq: 29 Jun 2018 17:41

Tgt Ion: 106 Resp: 13968
Ion Ratio Lower Upper
106 100
91 216.2 165.4 248.0





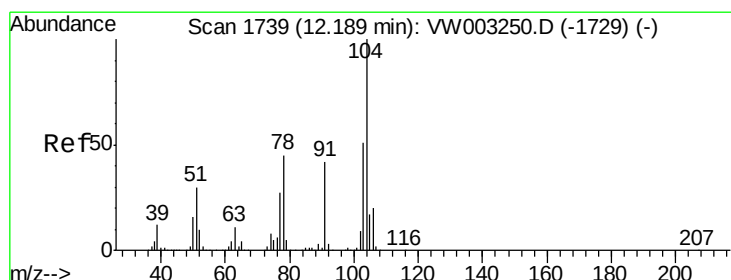
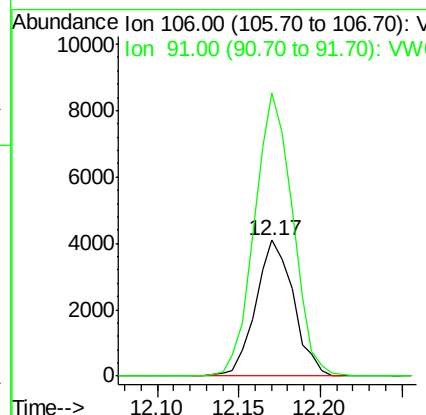
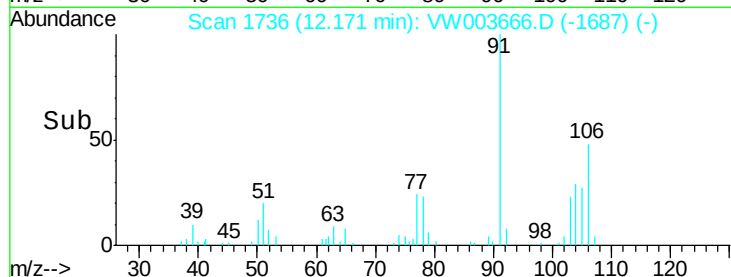
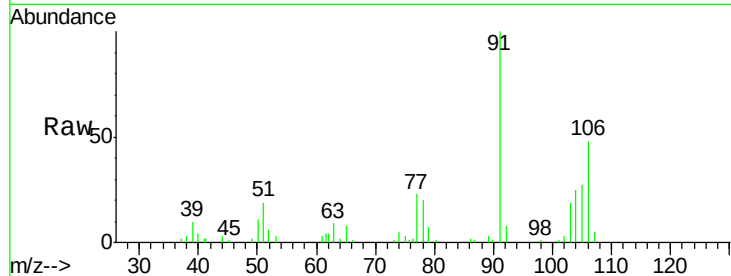
#69
o-Xylene
Concen: 1.81 ug/l
RT: 12.17 min Scan# 1736
Delta R.T. 0.00 min
Lab File: VW003666.D
Acq: 29 Jun 2018 17:41

Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT3-2018

Tot Ion:106 Resp: 6581
Ion Ratio Lower Upper
106 100
91 211.4 108.6 325.6

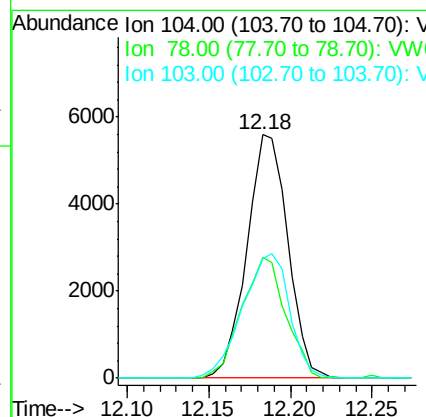
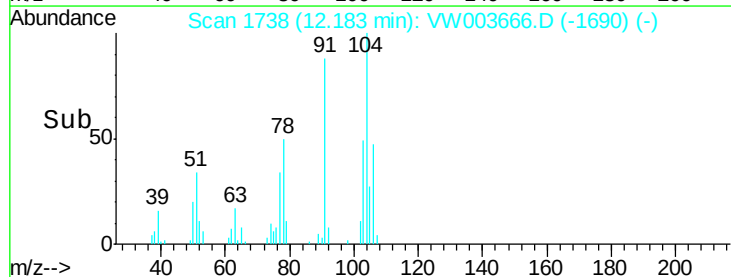
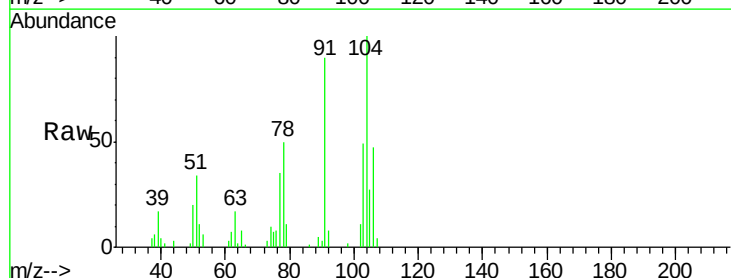
Manual Integrations
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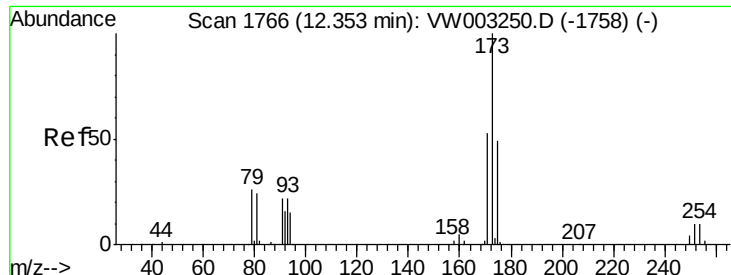
apatel
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#70
Styrene
Concen: 1.62 ug/l
RT: 12.18 min Scan# 1738
Delta R.T. -0.01 min
Lab File: VW003666.D
Acq: 29 Jun 2018 17:41

Tgt Ion:104 Resp: 9805
Ion Ratio Lower Upper
104 100
78 53.6 41.3 61.9
103 58.5 45.0 67.4





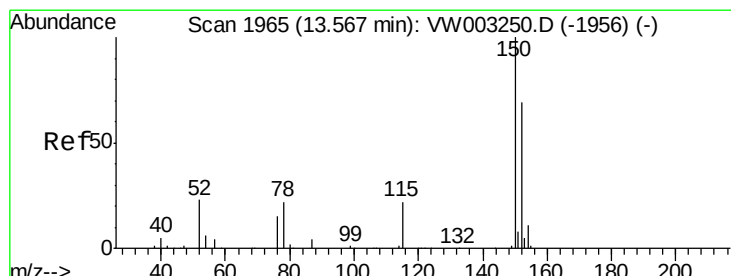
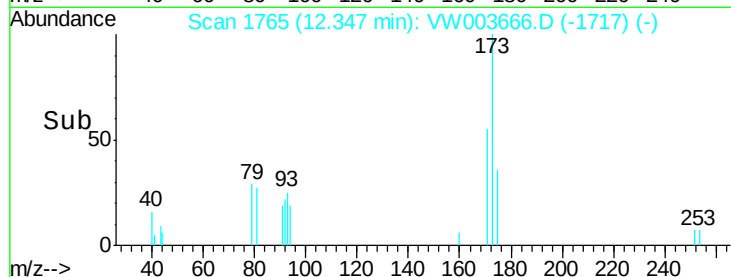
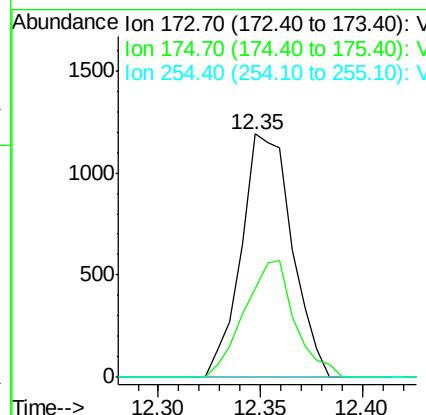
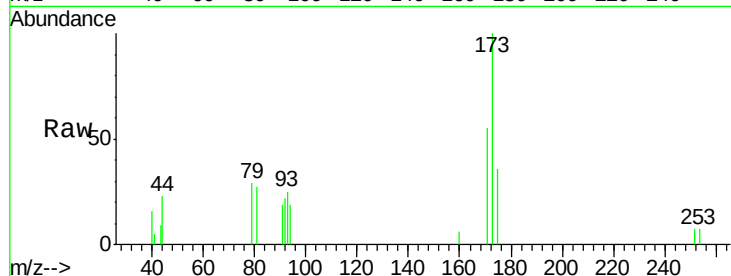
#71
Bromoform
Concen: 1.94 ug/l
RT: 12.35 min Scan# 1765
Delta R.T. -0.01 min
Lab File: VW003666.D
Acq: 29 Jun 2018 17:41

Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT3-2018

Tot Ion	Ratio	Lower	Upper
173	100		
175	47.7	24.4	73.4
254	0.0	0.1	0.1#

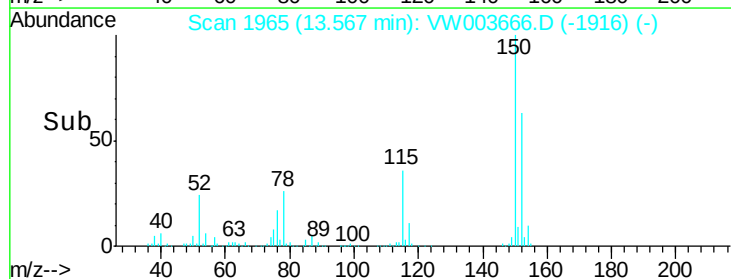
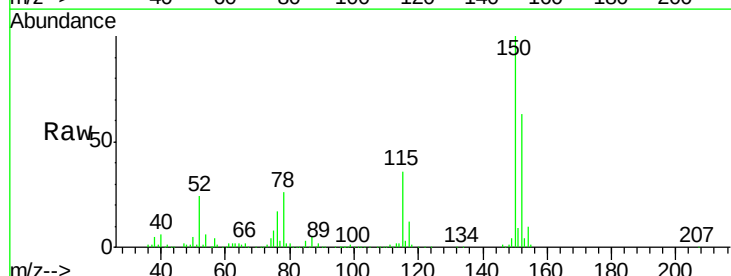
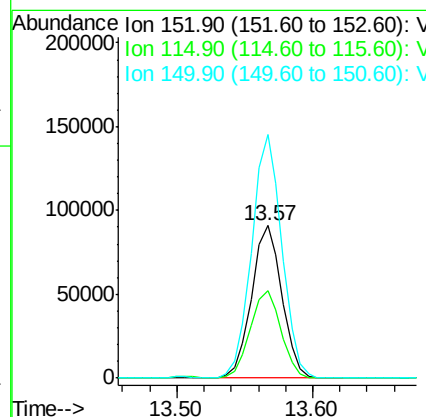
Manual Integrations
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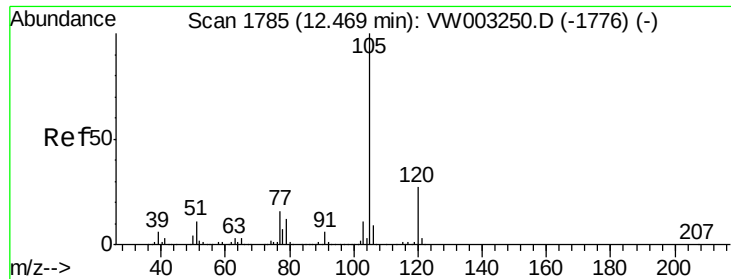
apatel
7/2/2018 10:30:58 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.57 min Scan# 1965
Delta R.T. 0.00 min
Lab File: VW003666.D
Acq: 29 Jun 2018 17:41

Tgt Ion	Ratio	Lower	Upper
152	100		
115	58.1	29.3	88.0
150	158.3	0.0	349.6





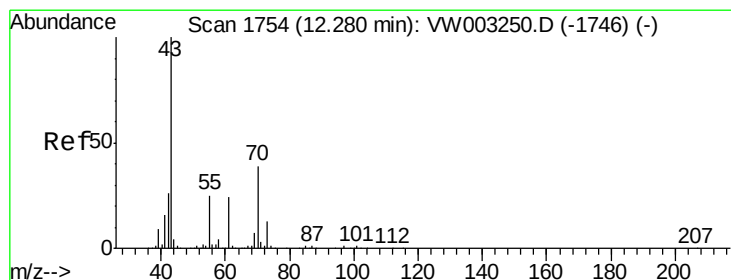
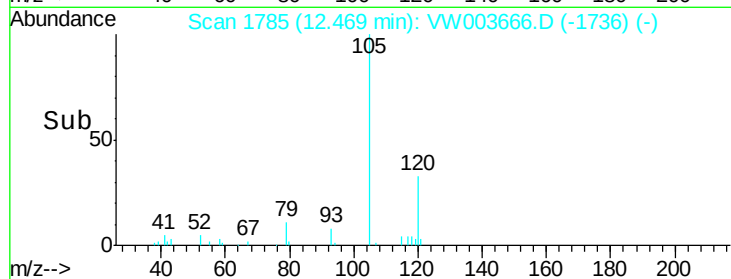
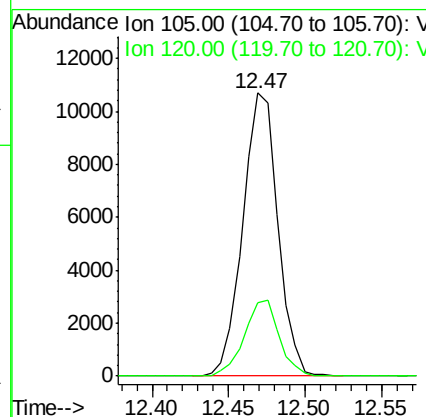
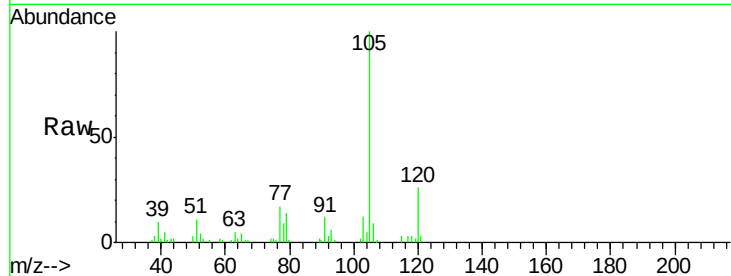
#73
Isopropylbenzene
Concen: 1.72 ug/l
RT: 12.47 min Scan# 1785
Delta R.T. 0.00 min
Lab File: VW003666.D
Acq: 29 Jun 2018 17:41

Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT3-2018

Tot Ion: 105 Resp: 17022
Ion Ratio Lower Upper
105 100
120 26.5 13.2 39.6

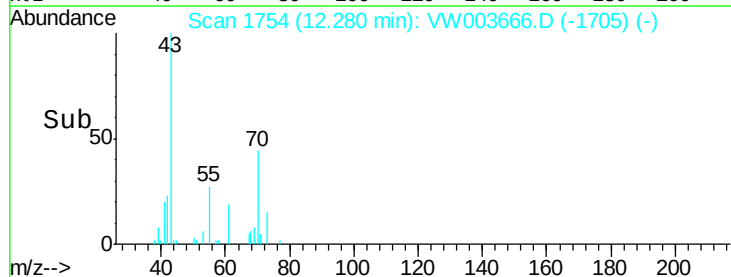
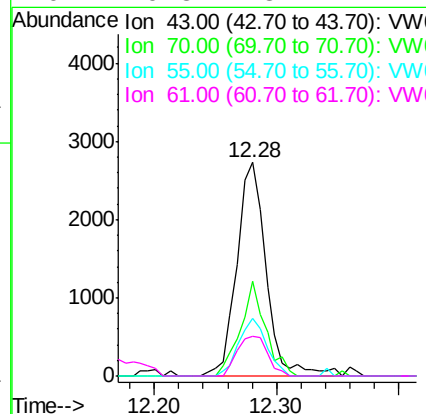
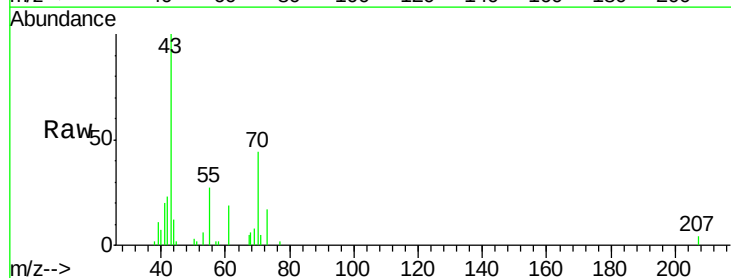
Manual Integrations
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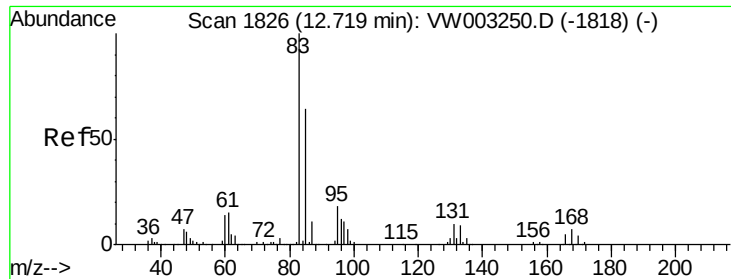
apatel
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#74
N-ethyl acetate
Concen: 2.01 ug/l
RT: 12.28 min Scan# 1754
Delta R.T. 0.00 min
Lab File: VW003666.D
Acq: 29 Jun 2018 17:41

Tgt Ion: 43 Resp: 4532
Ion Ratio Lower Upper
43 100
70 38.1 31.0 46.6
55 25.6 19.7 29.5
61 19.3 18.1 27.1





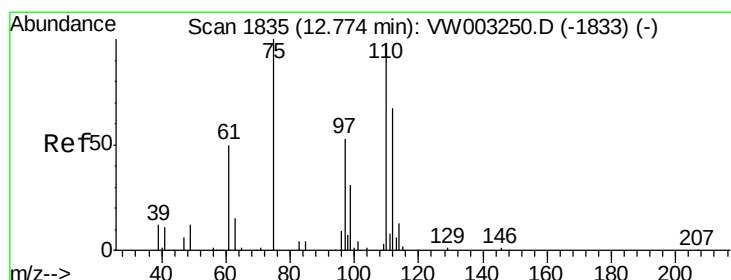
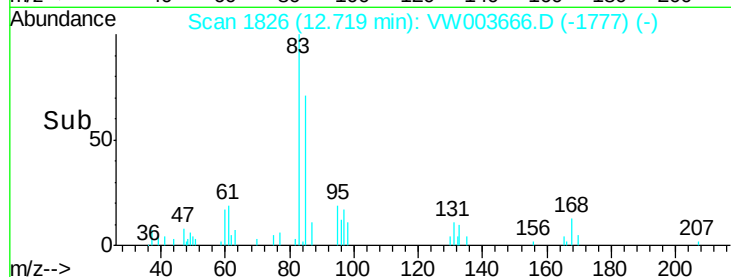
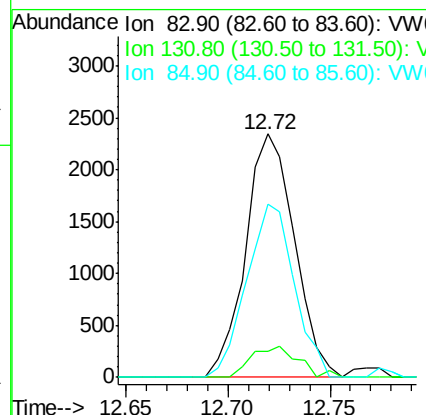
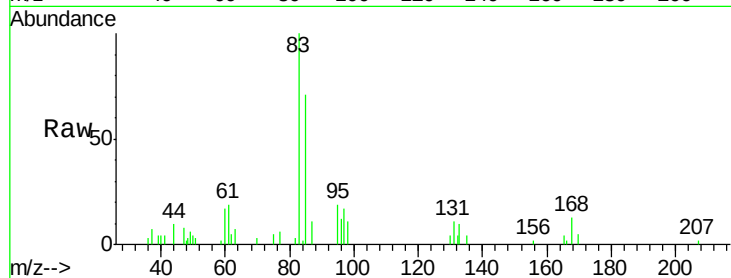
#75
 1,1,2,2-Tetrachloroethane
 Concen: 2.33 ug/l
 RT: 12.72 min Scan# 1826
 Delta R.T. 0.00 min
 Lab File: VW003666.D
 Acq: 29 Jun 2018 17:41

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT3-2018

Tot Ion	Ratio	Lower	Upper
83	100		
131	12.3	5.4	16.2
85	69.5	31.9	95.7

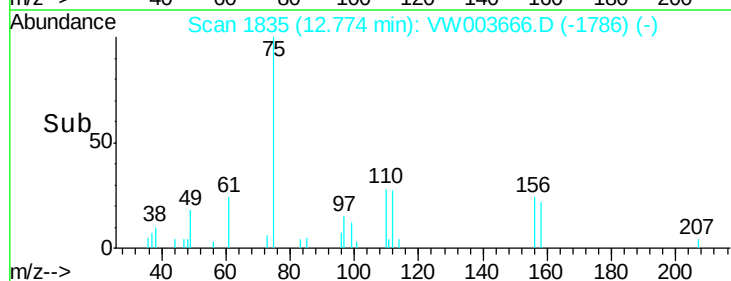
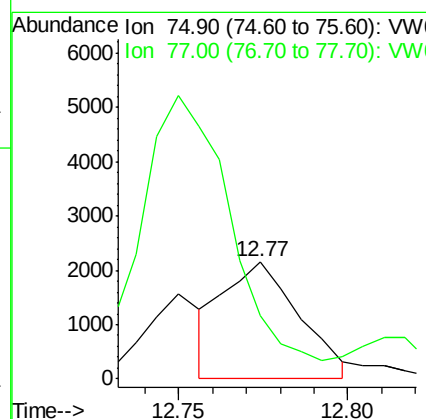
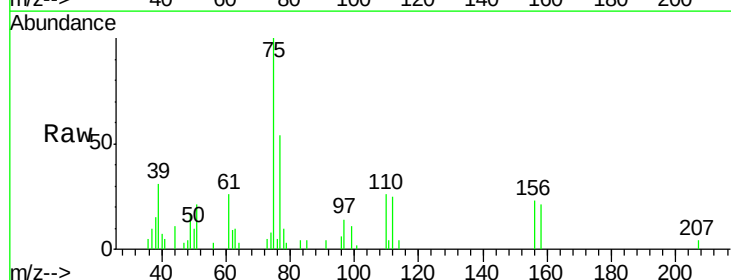
Manual Integrations
 APPROVED

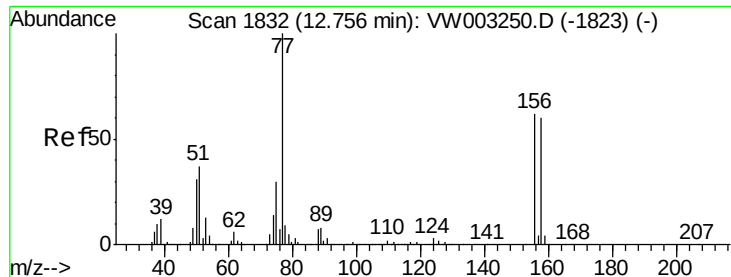
apatel
 7/2/2018 10:30:58 AM



#76
 1,2,3-Trichloropropane
 Concen: 2.79 ug/l m
 RT: 12.77 min Scan# 1835
 Delta R.T. 0.00 min
 Lab File: VW003666.D
 Acq: 29 Jun 2018 17:41

Tgt Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 2.18 ug/l

RT: 12.75 min Scan# 1831

Delta R.T. -0.01 min

Lab File: VW003666.D

Acq: 29 Jun 2018 17:41

Instrument :

MSVOA_W

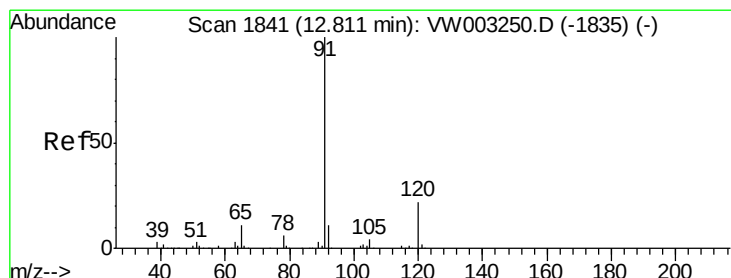
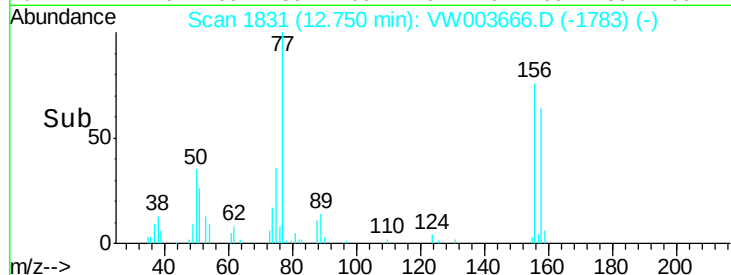
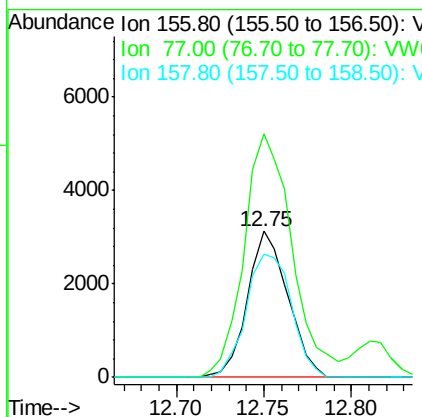
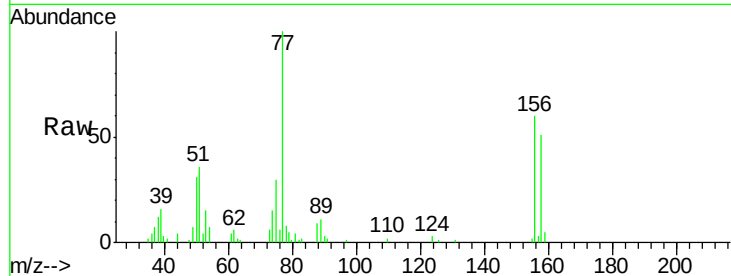
ClientSampleId :

MDL-SOIL-03-QT3-2018

Tot Ion	Ratio	Lower	Upper
156	100		
77	198.0	92.3	276.9
158	94.5	47.5	142.6

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#78

n-propylbenzene

Concen: 1.98 ug/l

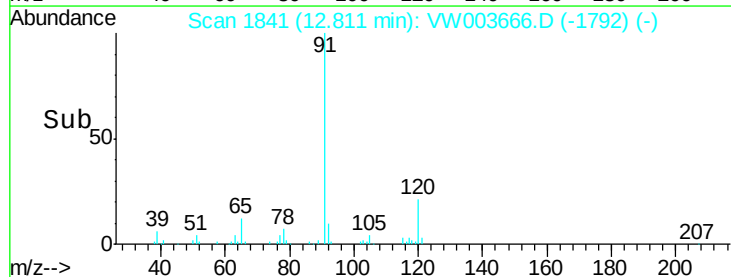
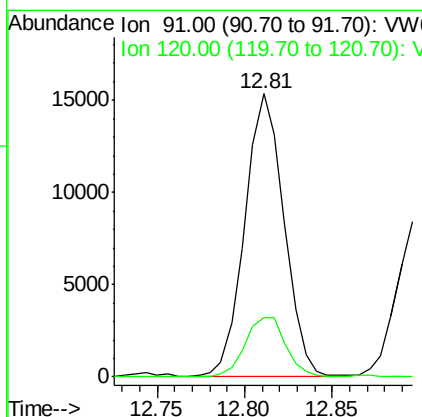
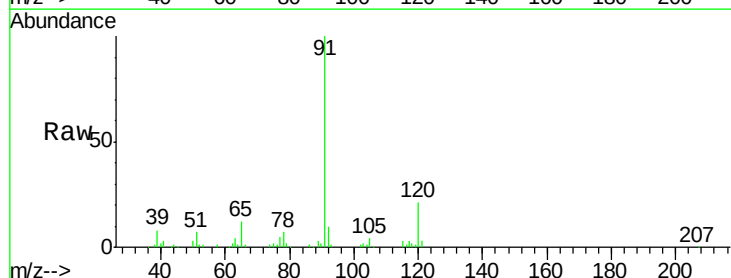
RT: 12.81 min Scan# 1841

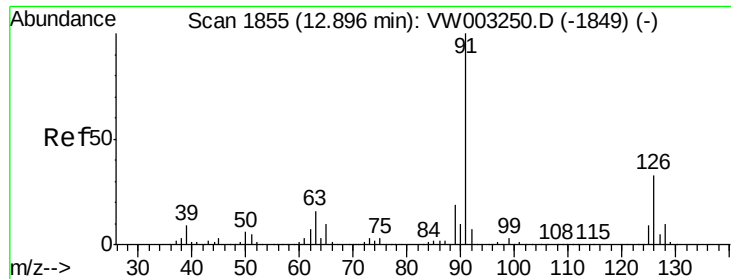
Delta R.T. 0.00 min

Lab File: VW003666.D

Acq: 29 Jun 2018 17:41

Tgt Ion	Ratio	Lower	Upper
91	100		
120	21.6	11.3	33.8





#79

2-Chlorotoluene

Concen: 2.05 ug/l

RT: 12.90 min Scan# 1856

Delta R.T. 0.01 min

Lab File: VW003666.D

Acq: 29 Jun 2018 17:41

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT3-2018

Tot Ion: 91 Resp: 14024

Ion Ratio Lower Upper

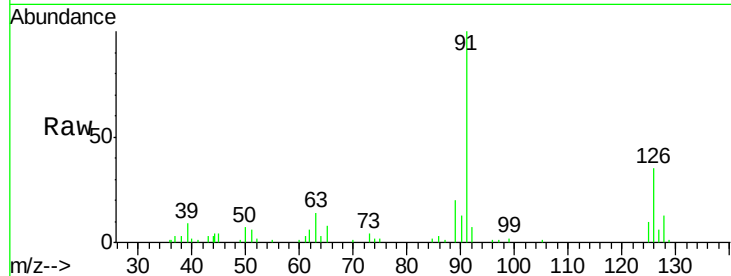
91 100

126 33.5 16.8 50.4

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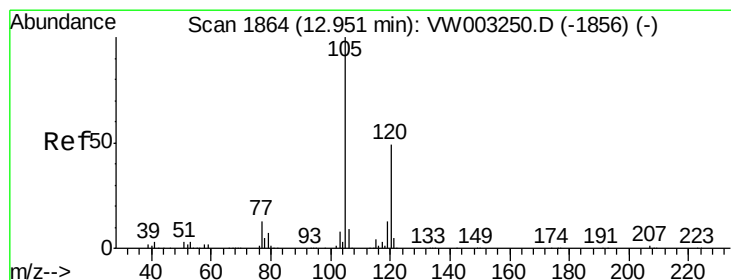
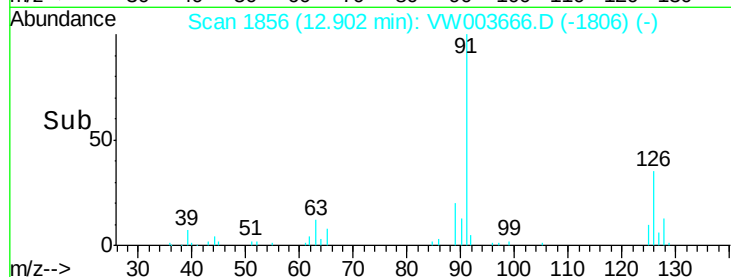
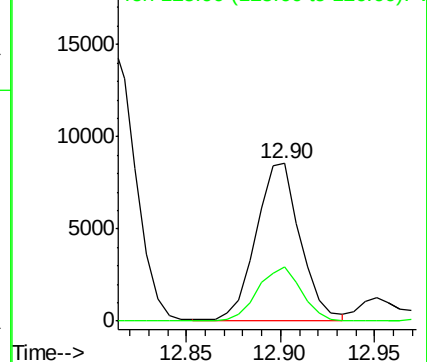
apatel

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Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 125.90 (125.60 to 126.60): V



#80

1,3,5-Trimethylbenzene

Concen: 1.78 ug/l

RT: 12.95 min Scan# 1864

Delta R.T. 0.00 min

Lab File: VW003666.D

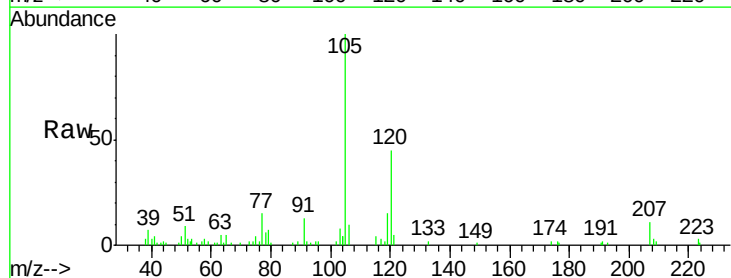
Acq: 29 Jun 2018 17:41

Tgt Ion: 105 Resp: 14791

Ion Ratio Lower Upper

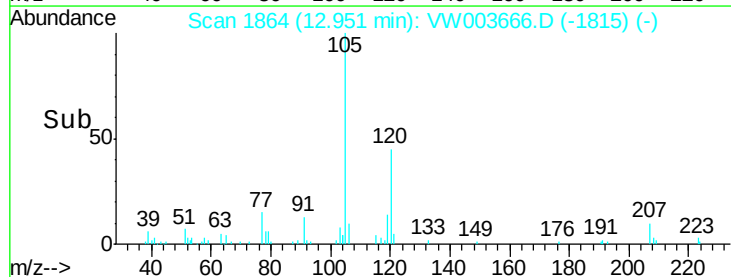
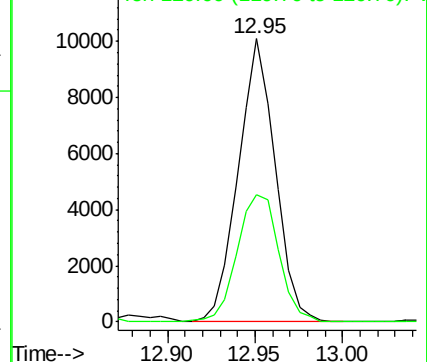
105 100

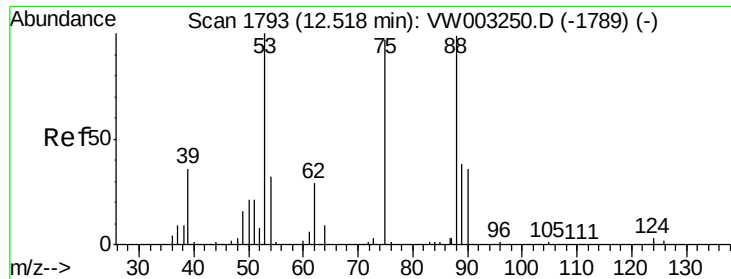
120 50.8 24.3 72.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 1.93 ug/l m

RT: 12.52 min Scan# 1793

Delta R.T. 0.00 min

Lab File: VW003666.D

Acq: 29 Jun 2018 17:41

Instrument :

MSVOA_W

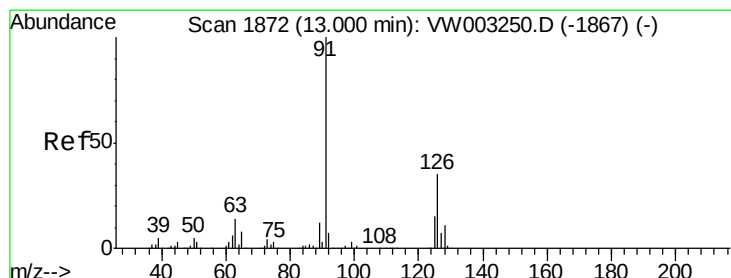
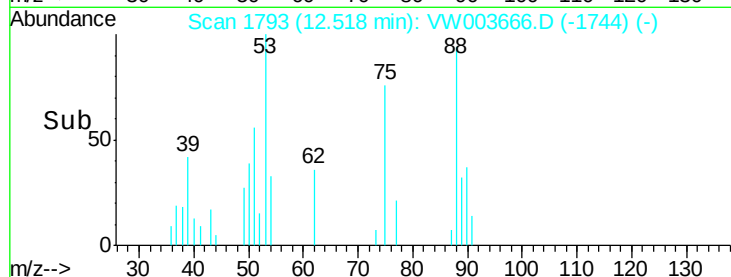
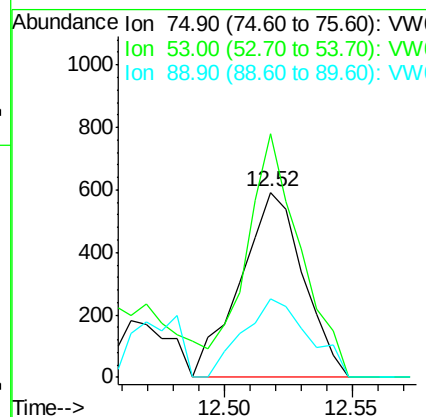
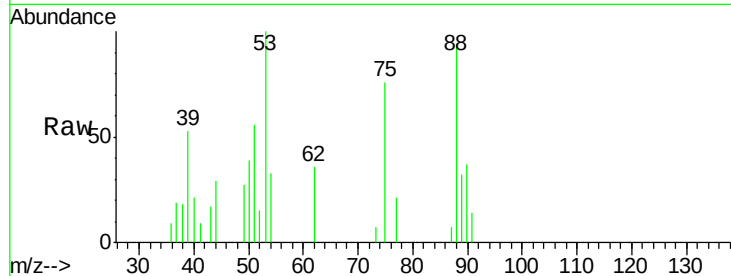
ClientSampleId :

MDL-SOIL-03-QT3-2018

Tot Ion:	75	Resp:	1022
Ion	Ratio	Lower	Upper
75	100		
53	12.4	82.9	124.3#
89	29.8	36.7	55.1#

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#82

4-Chlorotoluene

Concen: 1.98 ug/l

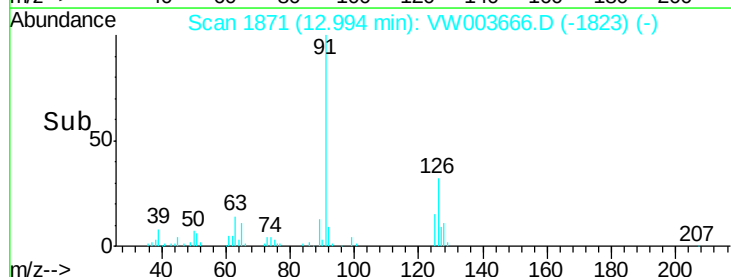
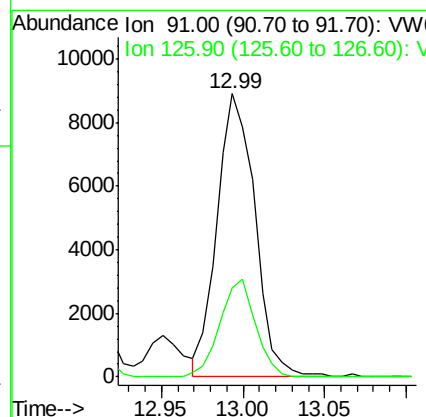
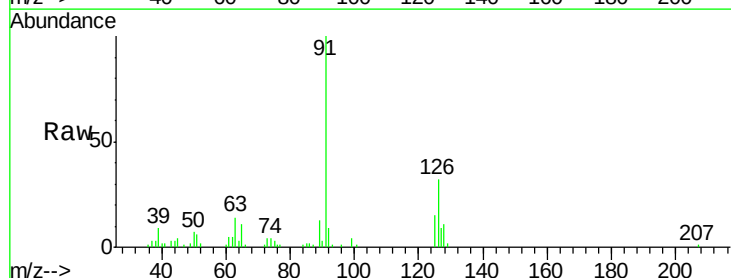
RT: 12.99 min Scan# 1871

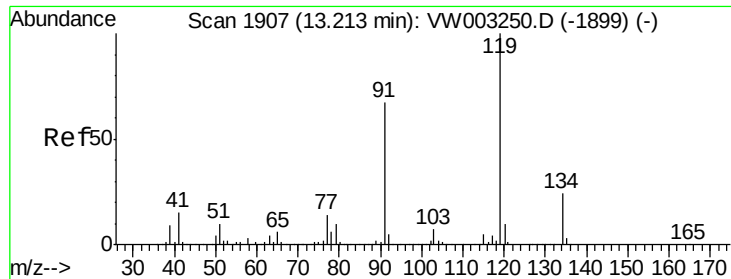
Delta R.T. -0.01 min

Lab File: VW003666.D

Acq: 29 Jun 2018 17:41

Tgt Ion:	91	Resp:	14395
Ion	Ratio	Lower	Upper
91	100		
126	32.4	16.8	50.3





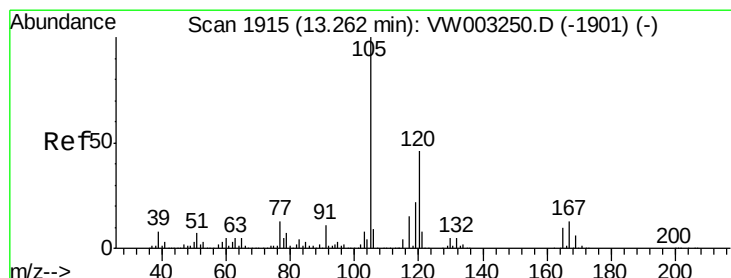
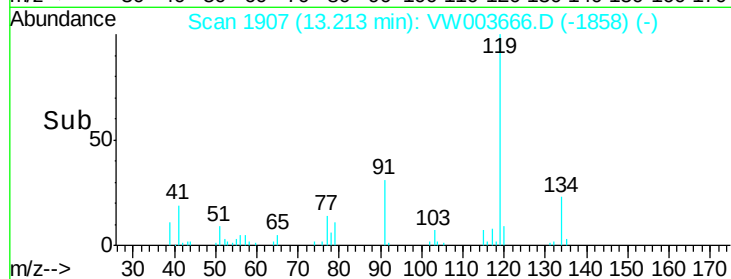
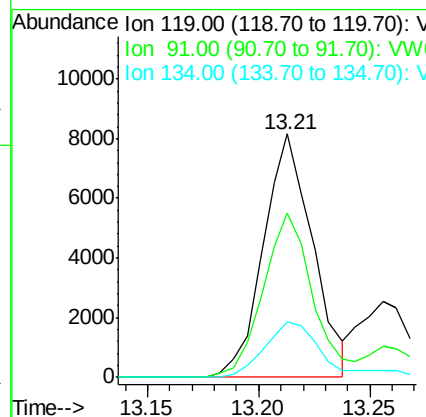
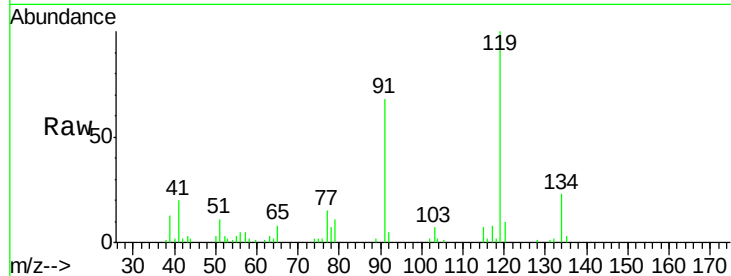
#83
tert-Butylbenzene
Concen: 1.77 ug/l
RT: 13.21 min Scan# 1907
Delta R.T. 0.00 min
Lab File: VW003666.D
Acq: 29 Jun 2018 17:41

Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT3-2018

Tot Ion	Ratio	Lower	Upper
119	100		
91	68.0	33.9	101.7
134	25.4	13.4	40.1

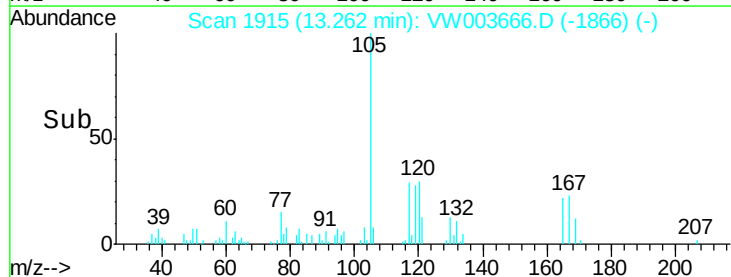
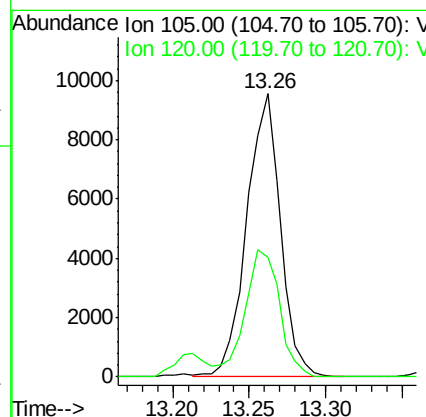
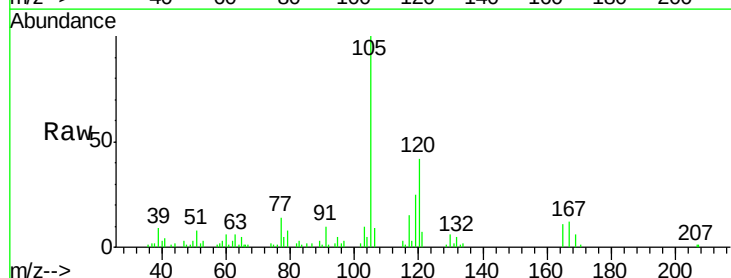
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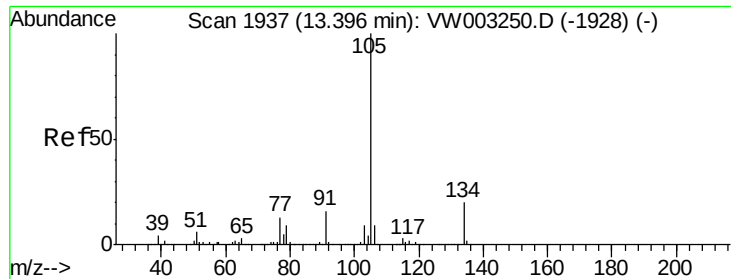
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#84
1,2,4-Trimethylbenzene
Concen: 1.71 ug/l
RT: 13.26 min Scan# 1915
Delta R.T. 0.00 min
Lab File: VW003666.D
Acq: 29 Jun 2018 17:41

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.1	22.5	67.5





#85

sec-Butylbenzene

Concen: 1.74 ug/l

RT: 13.39 min Scan# 1936

Delta R.T. -0.01 min

Lab File: VW003666.D

Acq: 29 Jun 2018 17:41

Instrument :

MSVOA_W

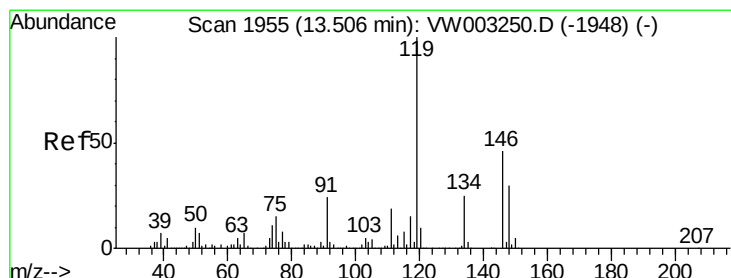
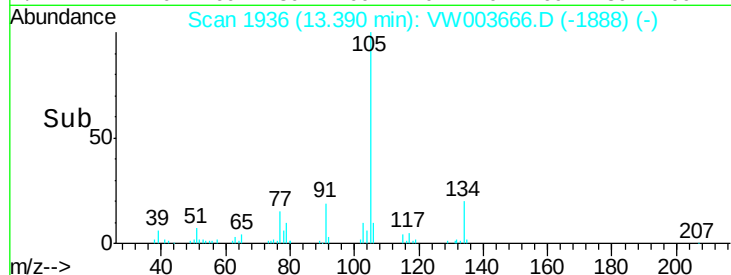
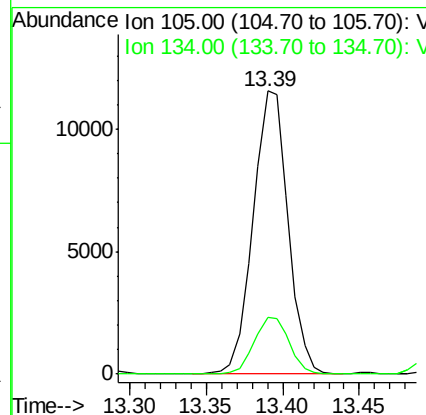
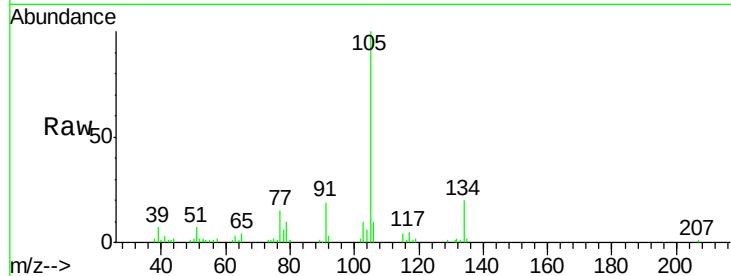
ClientSampleID :

MDL-SOIL-03-QT3-2018

Tot Ion	Ratio	Lower	Upper
105	100		
134	20.1	9.8	29.5

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#86

p-Isopropyltoluene

Concen: 1.56 ug/l

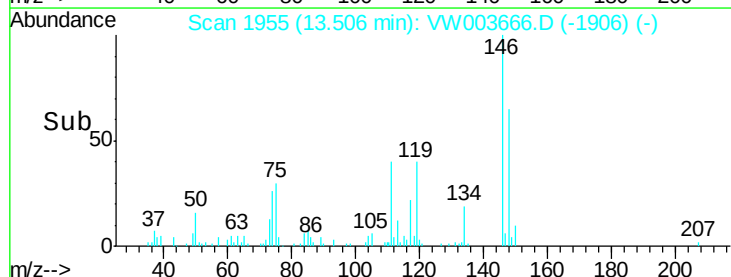
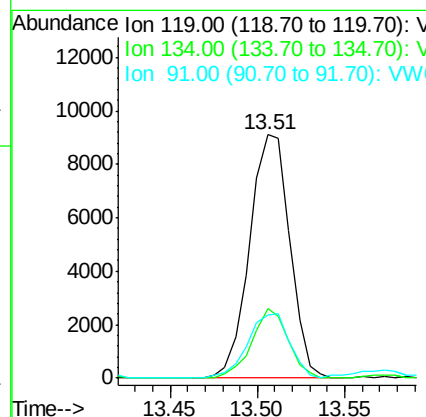
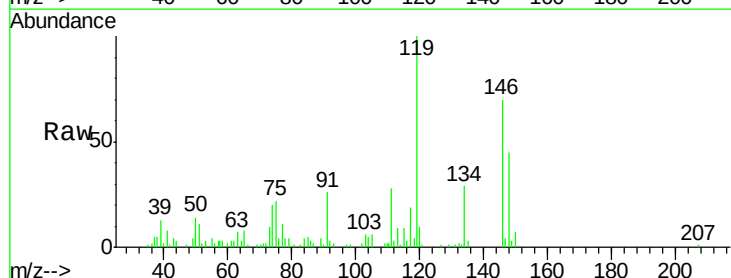
RT: 13.51 min Scan# 1955

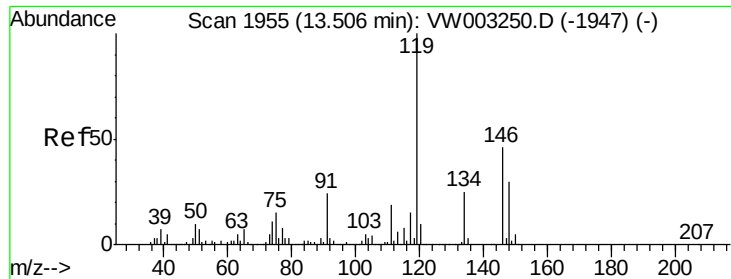
Delta R.T. 0.00 min

Lab File: VW003666.D

Acq: 29 Jun 2018 17:41

Tgt Ion	Ratio	Lower	Upper
119	100		
134	25.8	12.9	38.7
91	27.4	11.8	35.3





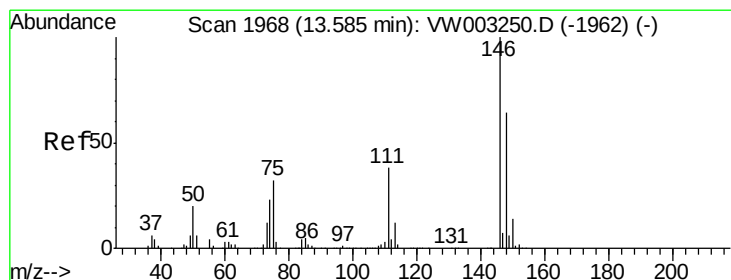
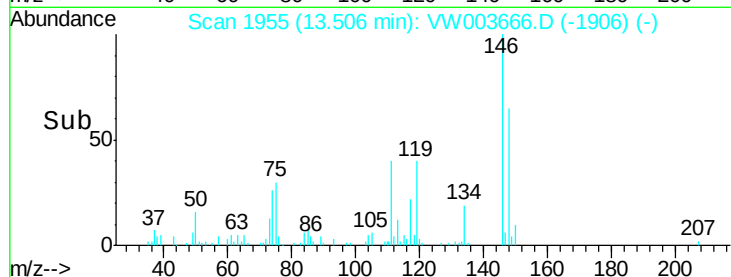
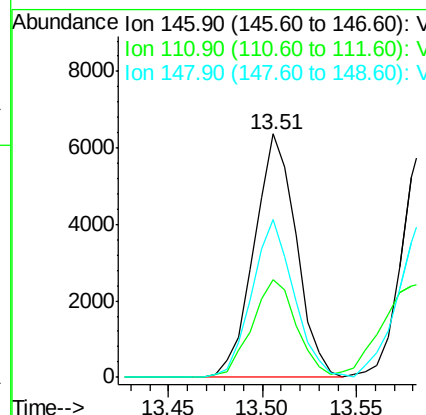
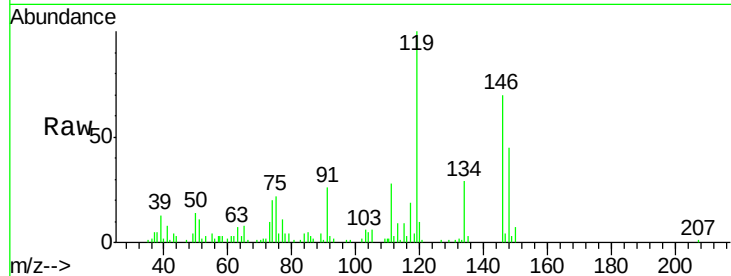
#87
 1,3-Dichlorobenzene
 Concen: 2.08 ug/l
 RT: 13.51 min Scan# 1955
 Delta R.T. 0.00 min
 Lab File: VW003666.D
 Acq: 29 Jun 2018 17:41

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT3-2018

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.5	19.8	59.4
148	64.5	32.1	96.5

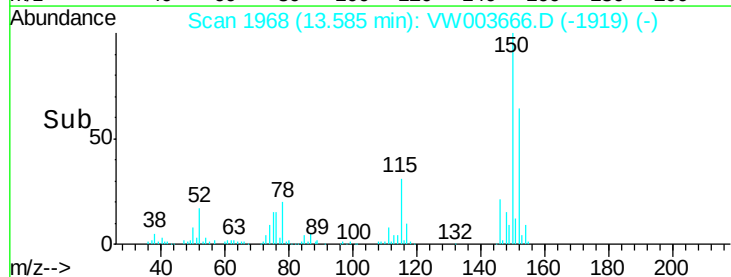
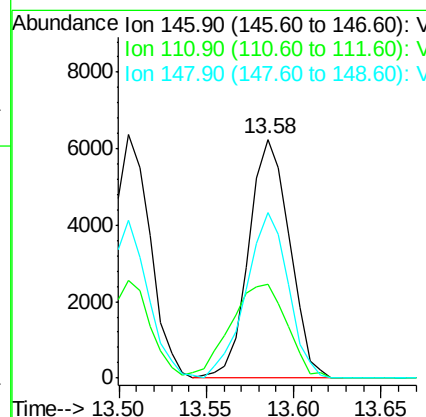
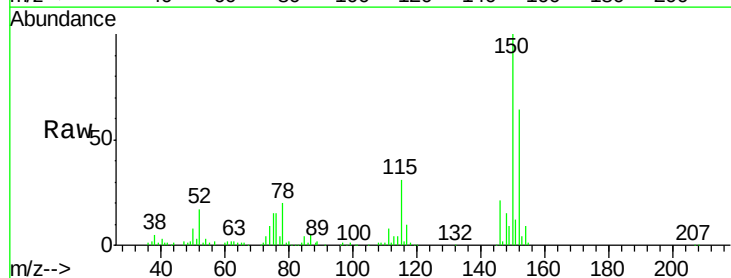
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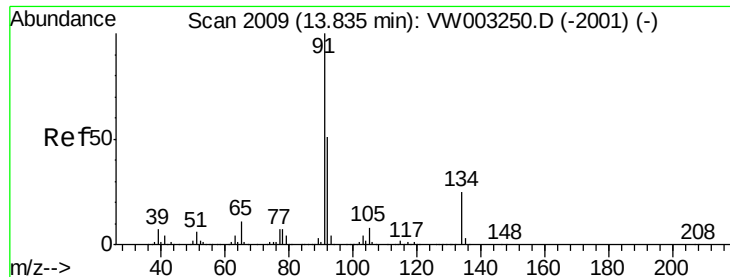
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#88
 1,4-Dichlorobenzene
 Concen: 2.16 ug/l
 RT: 13.58 min Scan# 1968
 Delta R.T. 0.00 min
 Lab File: VW003666.D
 Acq: 29 Jun 2018 17:41

Tgt Ion	Ratio	Lower	Upper
146	100		
111	54.5	19.2	57.6
148	71.7	31.8	95.4





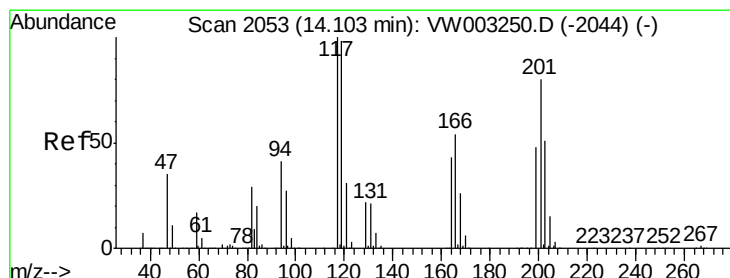
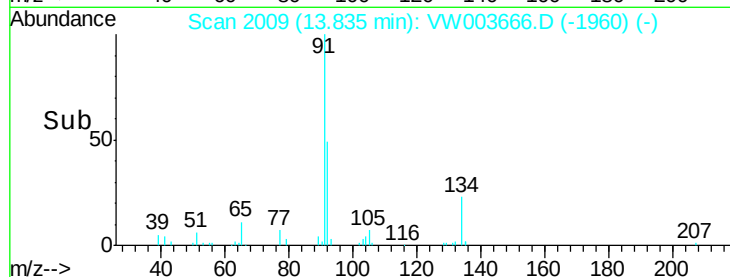
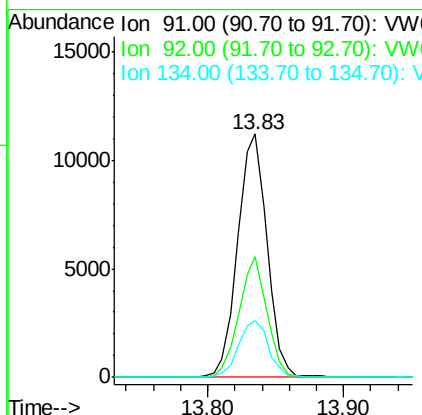
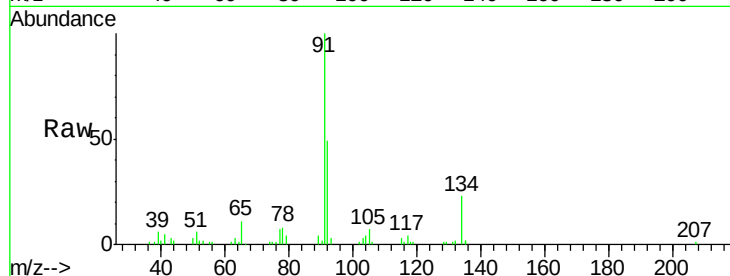
#89
n-Butylbenzene
Concen: 1.86 ug/l
RT: 13.83 min Scan# 2009
Delta R.T. 0.00 min
Lab File: VW003666.D
Acq: 29 Jun 2018 17:41

Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT3-2018

Tot Ion	Ratio	Lower	Upper
91	100		
92	46.8	26.0	78.0
134	23.8	12.7	38.0

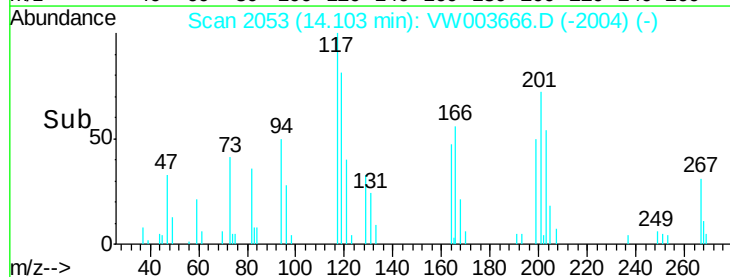
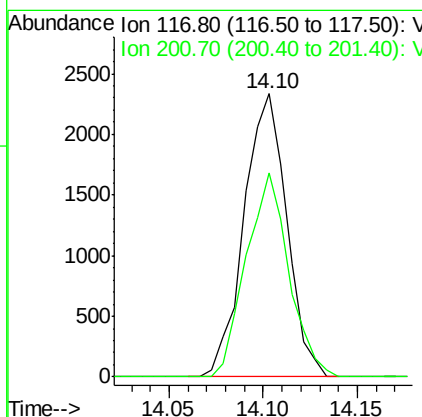
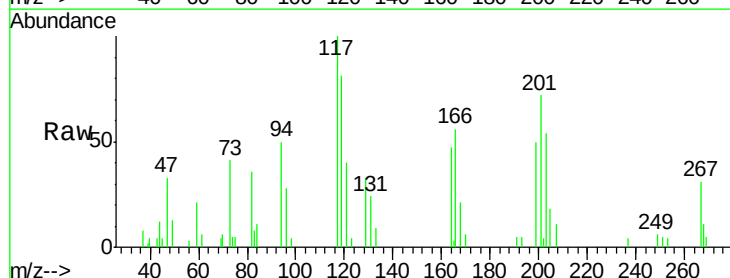
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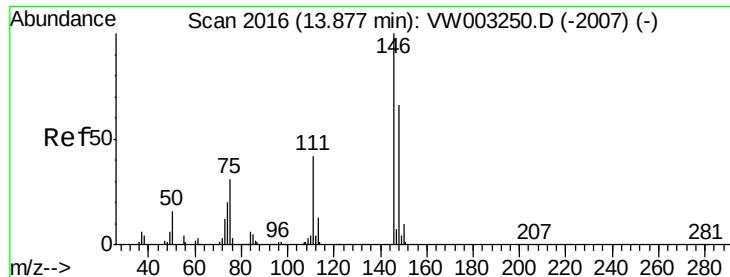
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#90
Hexachloroethane
Concen: 2.18 ug/l
RT: 14.10 min Scan# 2053
Delta R.T. 0.00 min
Lab File: VW003666.D
Acq: 29 Jun 2018 17:41

Tgt Ion	Ratio	Lower	Upper
117	100		
201	72.0	39.5	118.5





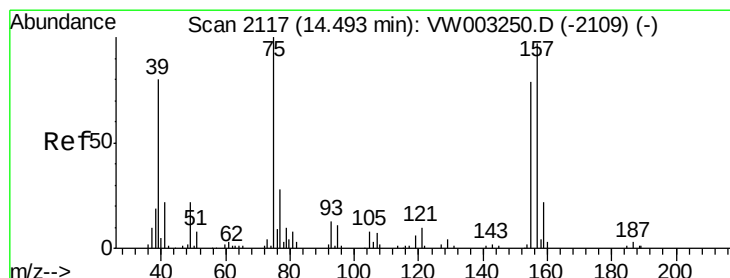
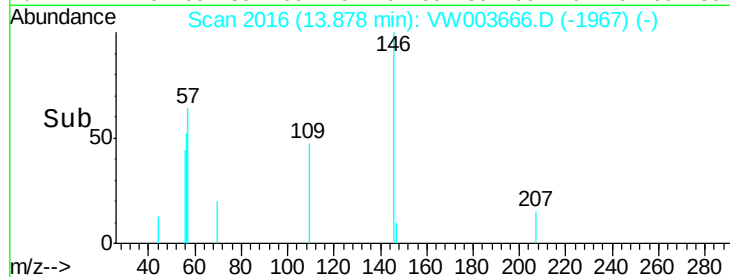
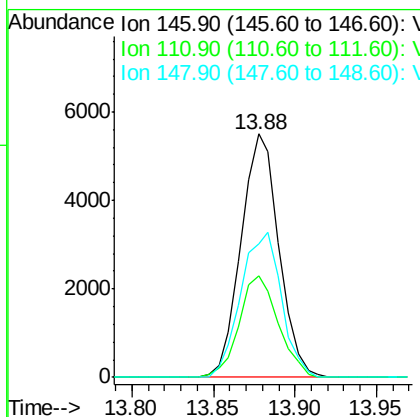
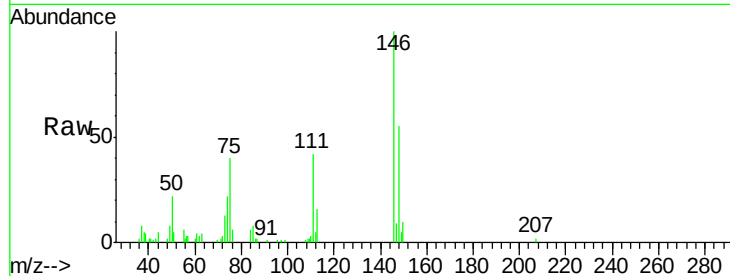
#91
 1,2-Dichlorobenzene
 Concen: 2.14 ug/l
 RT: 13.88 min Scan# 2016
 Delta R.T. 0.00 min
 Lab File: VW003666.D
 Acq: 29 Jun 2018 17:41

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT3-2018

Tot Ion	Ratio	Lower	Upper
146	100		
111	43.3	20.3	61.0
148	63.6	32.3	96.9

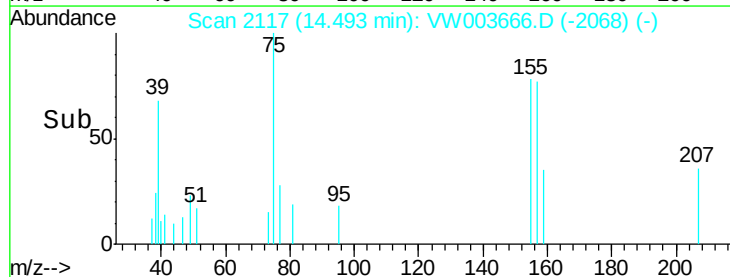
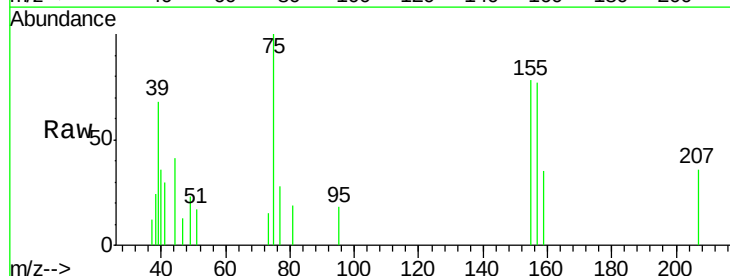
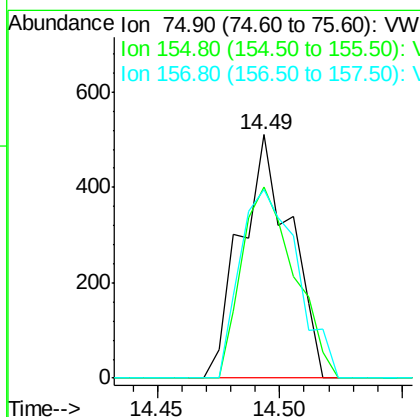
Manual Integrations
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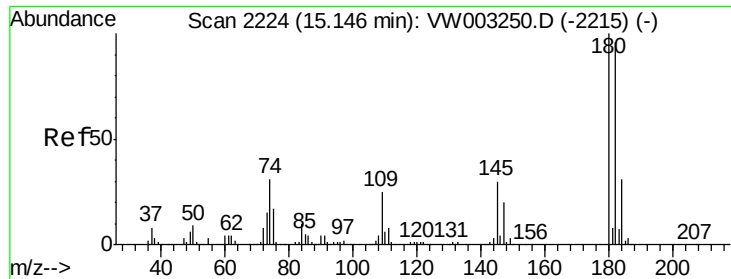
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 2.57 ug/l
 RT: 14.49 min Scan# 2117
 Delta R.T. 0.00 min
 Lab File: VW003666.D
 Acq: 29 Jun 2018 17:41

Tgt Ion	Ratio	Lower	Upper
75	100		
155	83.1	39.4	118.2
157	88.7	51.5	154.5





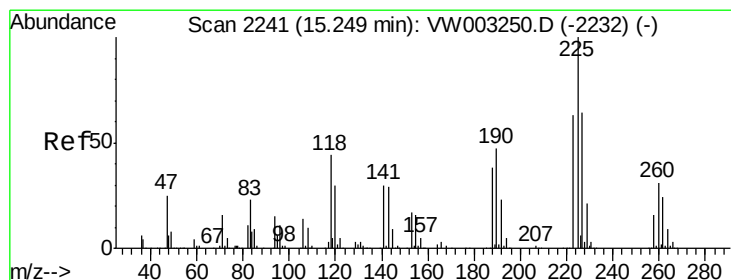
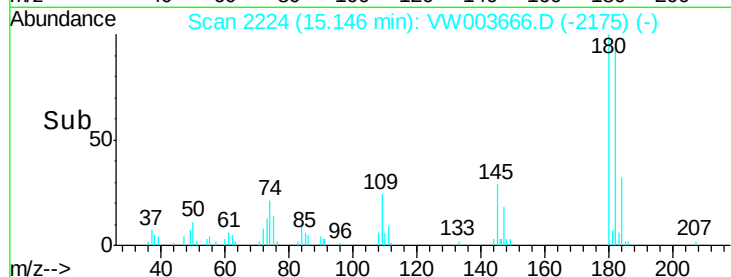
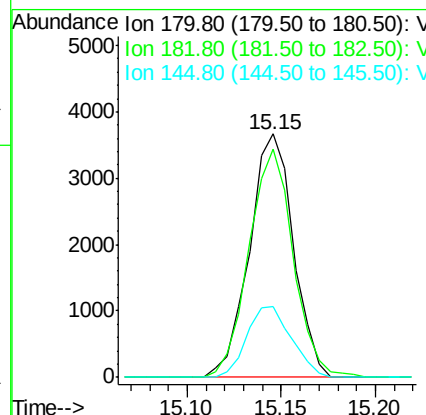
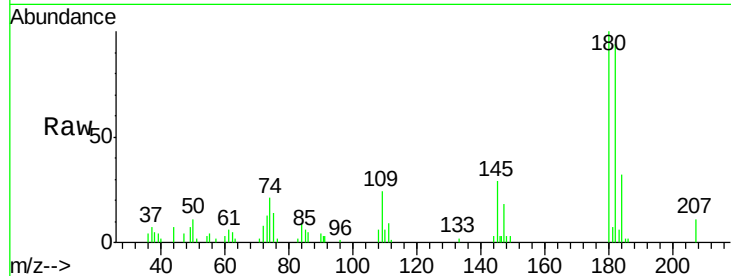
#93
 1,2,4-Trichlorobenzene
 Concen: 2.03 ug/l
 RT: 15.15 min Scan# 2224
 Delta R.T. 0.00 min
 Lab File: VW003666.D
 Acq: 29 Jun 2018 17:41

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT3-2018

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.8	47.9	143.6
145	29.6	15.2	45.5

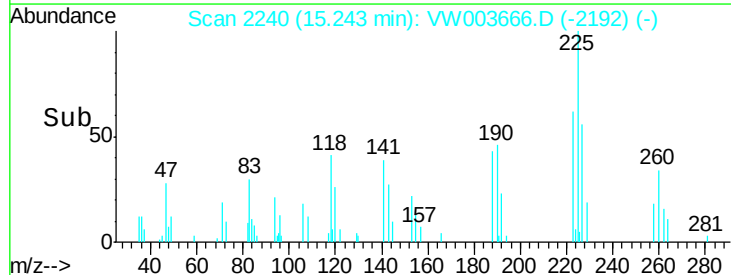
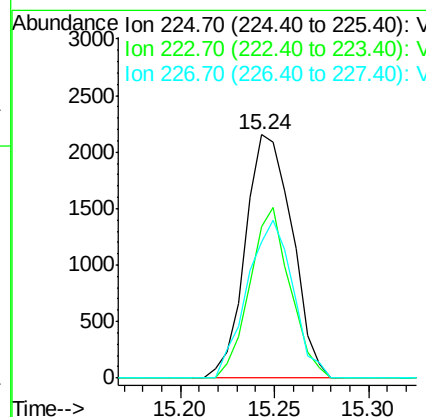
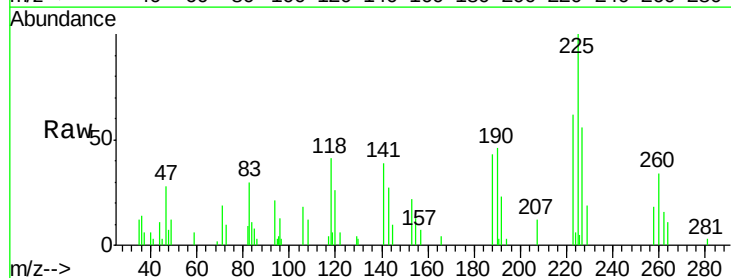
Manual Integrations
 APPROVED

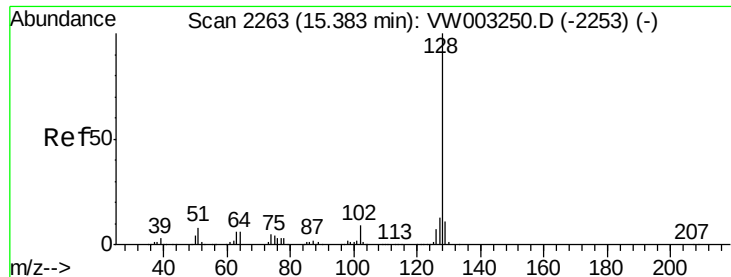
apatel
 7/2/2018 10:30:58 AM



#94
 Hexachlorobutadiene
 Concen: 2.11 ug/l
 RT: 15.24 min Scan# 2240
 Delta R.T. -0.01 min
 Lab File: VW003666.D
 Acq: 29 Jun 2018 17:41

Tgt Ion	Ratio	Lower	Upper
225	100		
223	60.5	30.6	92.0
227	63.5	31.7	95.1





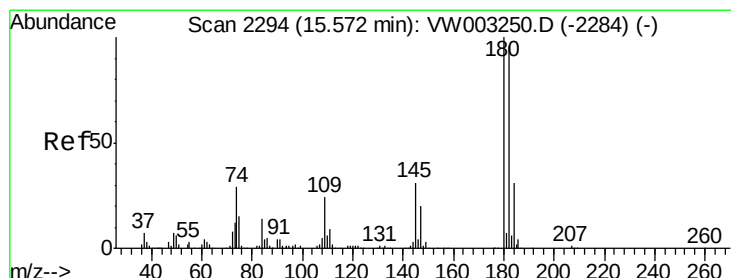
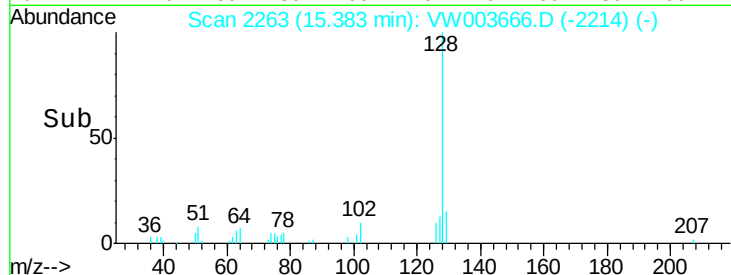
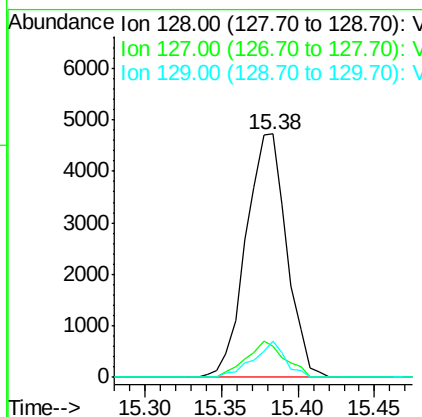
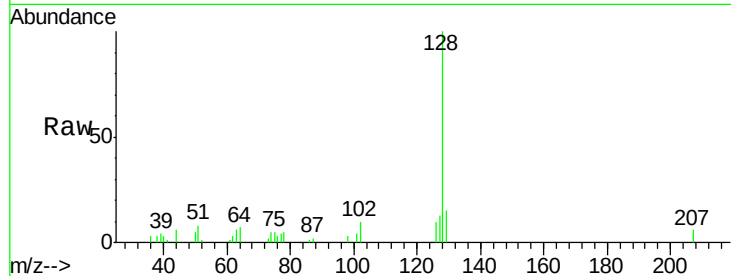
#95
Naphthalene
Concen: 1.77 ug/l
RT: 15.38 min Scan# 2263
Delta R.T. 0.00 min
Lab File: VW003666.D
Acq: 29 Jun 2018 17:41

Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT3-2018

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.7	10.5	15.7
129	11.5	8.9	13.3

Manual Integrations
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apatel
7/2/2018 10:30:58 AM



#96
1,2,3-Trichlorobenzene
Concen: 2.04 ug/l
RT: 15.57 min Scan# 2293
Delta R.T. -0.01 min
Lab File: VW003666.D
Acq: 29 Jun 2018 17:41

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.8	47.9	143.6
145	30.6	15.8	47.4

