

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY120320\
 Data File : VY003653.D
 Acq On : 03 Dec 2020 19:03
 Operator : SY/MD
 Sample : L4485-06
 Misc : 5.00G/10ML/MSVOA Y/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-06

Quant Time: Dec 04 00:26:27 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\SFAMYL120120SMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Dec 04 00:25:15 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.70	114	222862	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.49	117	208946	25.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.42	152	107206	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.25	65	60294	20.71	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	82.84%
7) Chloroethane-d5	2.77	69	50582	22.39	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	89.56%
11) 1,1-Dichloroethene-d2	3.86	63	100745	17.38	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	69.52%
21) 2-Butanone-d5	6.90	46	71975	57.57	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	115.14%
24) Chloroform-d	7.48	84	137620	24.34	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	97.36%
26) 1,2-Dichloroethane-d4	8.15	65	77221	25.23	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	100.92%
32) Benzene-d6	8.12	84	290493	24.46	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	97.84%
36) 1,2-Dichloropropane-d6	9.12	67	90553	25.04	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	100.16%
41) Toluene-d8	10.18	98	260333	24.54	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	98.16%
43) trans-1,3-Dichloropropene-	10.44	79	42539	25.12	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	100.48%
47) 2-Hexanone-d5	10.79	63	55780	57.72	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	115.44%
56) 1,1,2,2-Tetrachloroethane-	12.56	84	79068	21.62	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	86.48%
66) 1,2-Dichlorobenzene-d4	13.72	152	98343	25.85	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	103.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.91	85	3903	1.509 ug/L	93
3) Chloromethane	2.12	50	5060	1.804 ug/L	94
5) Vinyl chloride	2.25	62	4607	1.531 ug/L #	68
6) Bromomethane	2.66	94	2880	1.528 ug/L	93
9) Trichlorofluoromethane	3.14	101	7450	1.631 ug/L	95
10) 1,1,2-Trichloro-1,2,2-trif	3.91	101	5006	1.642 ug/L #	51
12) 1,1-Dichloroethene	3.88	96	5148	1.777 ug/L #	1
13) Acetone	3.96	43	3707	4.138 ug/L	99
15) Methyl Acetate	4.48	43	1990	0.922 ug/L #	75
16) Methylene chloride	4.73	84	14374	3.821 ug/L	95
17) trans-1,2-Dichloroethene	5.23	96	4570	1.436 ug/L	98
18) Methyl tert-butyl Ether	5.23	73	11485	1.477 ug/L #	71
19) 1,1-Dichloroethane	6.03	63	7612	1.421 ug/L	95
20) cis-1,2-Dichloroethene	6.99	96	5403	1.619 ug/L	96
22) 2-Butanone	7.00	43	6691	4.442 ug/L #	68
23) Bromochloromethane	7.35	128	2412	1.482 ug/L	75
27) 1,2-Dichloroethane	8.24	62	5446	1.542 ug/L	97

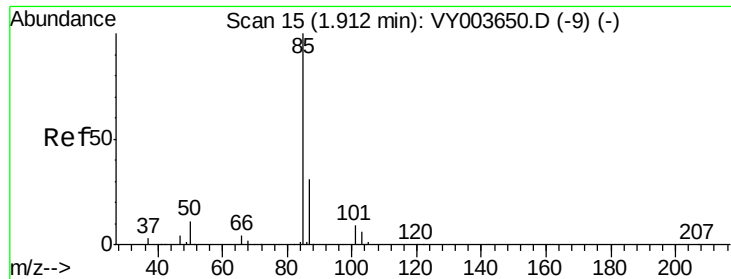
Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY120320\
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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\SFAMYL120120SMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Dec 04 00:25:15 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
29) Cyclohexane	7.80	56	6741	1.359	ug/L	99
30) 1,1,1-Trichloroethane	7.71	97	7216	1.515	ug/L	98
31) Carbon tetrachloride	7.91	117	6361	1.479	ug/L	100
33) Benzene	8.17	78	18965	1.485	ug/L	100
34) Trichloroethene	8.94	95	5334	1.673	ug/L	96
35) Methylcyclohexane	9.19	83	7225	1.326	ug/L	89
37) 1,2-Dichloropropane	9.22	63	4834	1.491	ug/L #	96
38) Bromodichloromethane	9.50	83	6150	1.507	ug/L	97
39) cis-1,3-Dichloropropene	9.93	75	7545	1.507	ug/L	90
40) 4-Methyl-2-pentanone	10.07	43	10067	3.537	ug/L #	98
42) Toluene	10.25	91	20699	1.543	ug/L	99
44) trans-1,3-Dichloropropene	10.47	75	7243	1.567	ug/L	94
45) 1,1,2-Trichloroethane	10.65	97	4127	1.516	ug/L	93
46) Tetrachloroethene	10.72	164	4588	1.682	ug/L	93
48) 2-Hexanone	10.83	43	6324	3.044	ug/L #	97
49) Dibromochloromethane	10.98	129	4737	1.506	ug/L	94
50) 1,2-Dibromoethane	11.09	107	3821	1.451	ug/L #	96
51) Chlorobenzene	11.52	112	13865	1.604	ug/L #	85
52) Ethylbenzene	11.59	91	21050	1.466	ug/L	97
53) m,p-Xylene	11.70	106	8269	1.473	ug/L	92
54) o-Xylene	12.03	106	7257	1.369	ug/L	94
55) Styrene	12.04	104	12519	1.380	ug/L	94
57) 1,1,2,2-Tetrachloroethane	12.58	83	5008	1.388	ug/L #	92
59) Bromoform	12.21	173	3035	1.442	ug/L	96
60) Isopropylbenzene	12.33	105	19490	1.422	ug/L	99
61) 1,2,3-Trichloropropane	12.64	75	3994	1.558	ug/L	98
62) 1,3,5-Trimethylbenzene	12.81	105	14966	1.377	ug/L	94
63) 1,2,4-Trimethylbenzene	13.12	105	14980	1.395	ug/L	98
64) 1,3-Dichlorobenzene	13.36	146	10859	1.638	ug/L	87
65) 1,4-Dichlorobenzene	13.45	146	11093	1.646	ug/L	94
67) 1,2-Dichlorobenzene	13.74	146	10068	1.617	ug/L #	94
68) 1,2-Dibromo-3-chloropropan	14.50	75	1307	2.197	ug/L #	1
69) 1,3,5-Trimethylbenzene	14.50	180	8179	1.756	ug/L	95
70) 1,2,4-trichlorobenzene	15.01	180	6344	1.599	ug/L	100
71) Naphthalene	15.23	128	12839	1.482	ug/L	98
72) 1,2,3-Trichlorobenzene	15.42	180	5696	1.563	ug/L	96

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



#2

Dichlorodifluoromethane

Concen: 1.509 ug/L

RT: 1.91 min Scan# 14

Delta R.T. -0.01 min

Lab File: VY003653.D

Acq: 03 Dec 2020 19:03

Instrument :

MSVOA_Y

ClientSampleId :

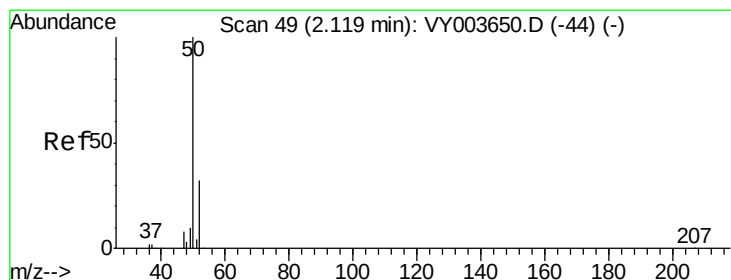
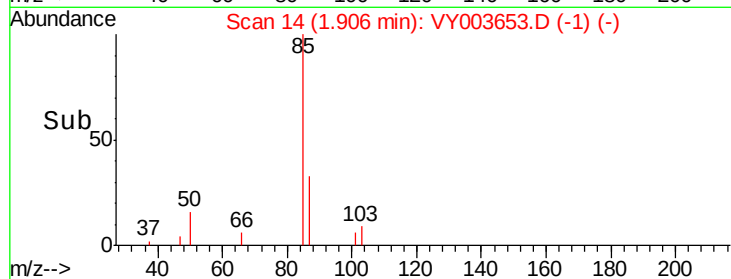
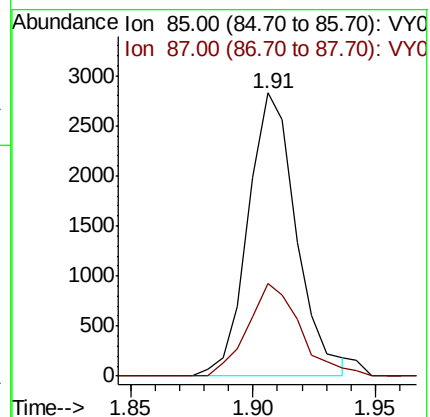
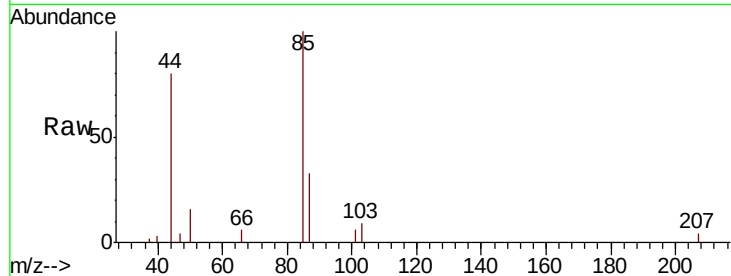
MDL-SOIL-06

Tot Ion: 85 Resp: 3903

Ion Ratio Lower Upper

85 100

87 35.7 25.4 38.2



#3

Chloromethane

Concen: 1.804 ug/L

RT: 2.12 min Scan# 49

Delta R.T. 0.00 min

Lab File: VY003653.D

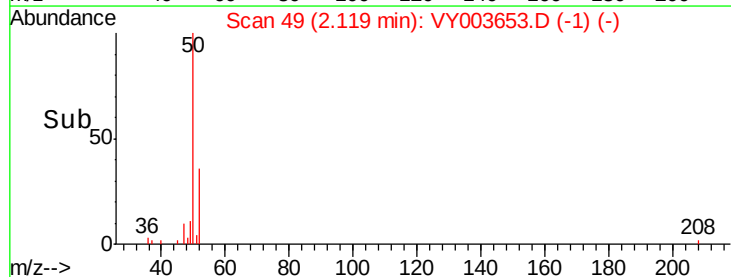
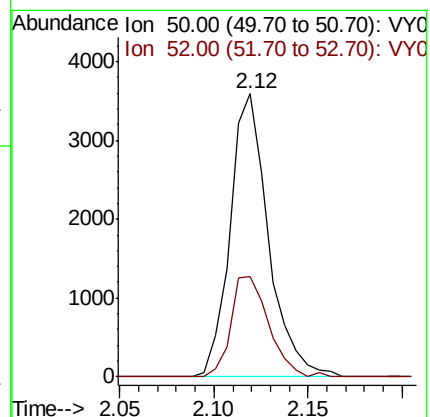
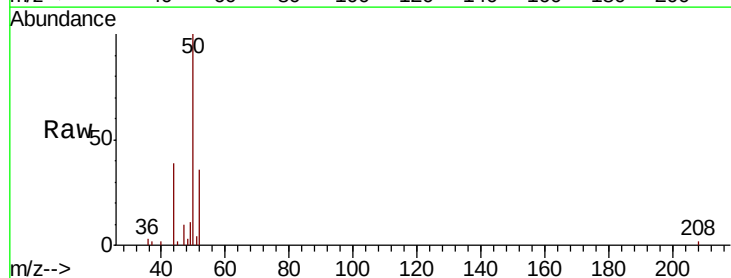
Acq: 03 Dec 2020 19:03

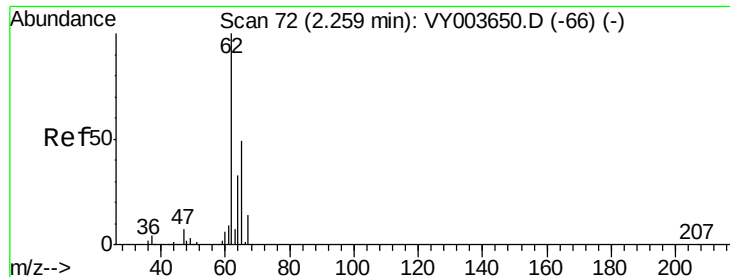
Tgt Ion: 50 Resp: 5060

Ion Ratio Lower Upper

50 100

52 35.6 22.7 42.3





#5

Vinyl chloride

Concen: 1.531 ug/L

RT: 2.25 min Scan# 71

Delta R.T. -0.01 min

Lab File: VY003653.D

Acq: 03 Dec 2020 19:03

Instrument :

MSVOA_Y

ClientSampleId :

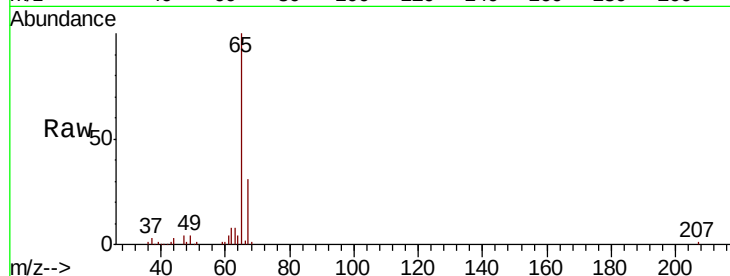
MDL-SOIL-06

Tot Ion: 62 Resp: 4607

Ion Ratio Lower Upper

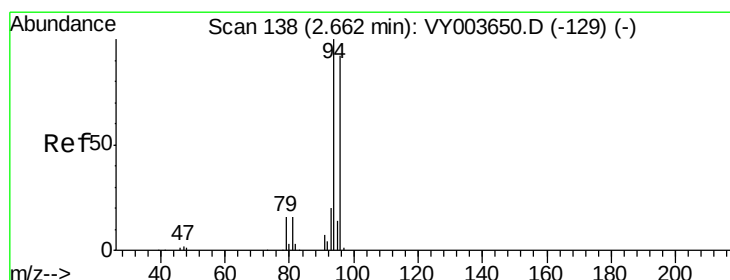
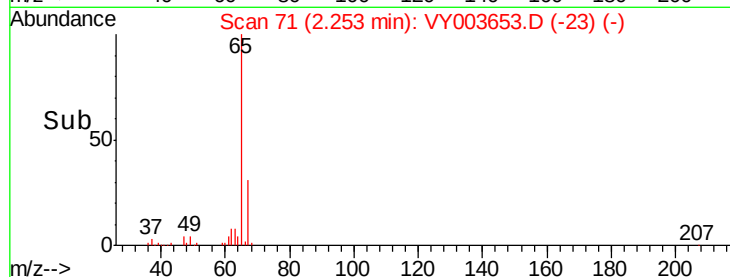
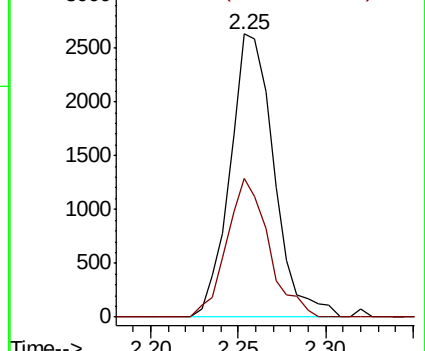
62 100

64 49.1 21.9 40.7#



Abundance Ion 62.00 (61.70 to 62.70): VY0

Ion 64.00 (63.70 to 64.70): VY0



#6

Bromomethane

Concen: 1.528 ug/L

RT: 2.66 min Scan# 138

Delta R.T. 0.00 min

Lab File: VY003653.D

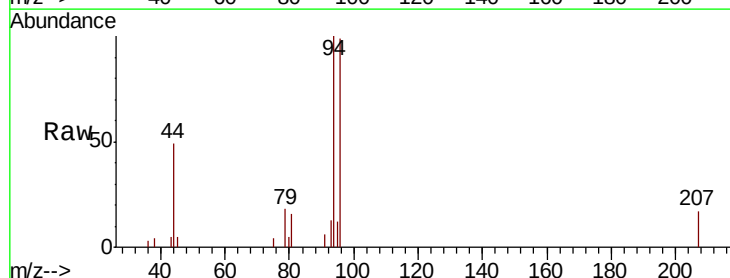
Acq: 03 Dec 2020 19:03

Tgt Ion: 94 Resp: 2880

Ion Ratio Lower Upper

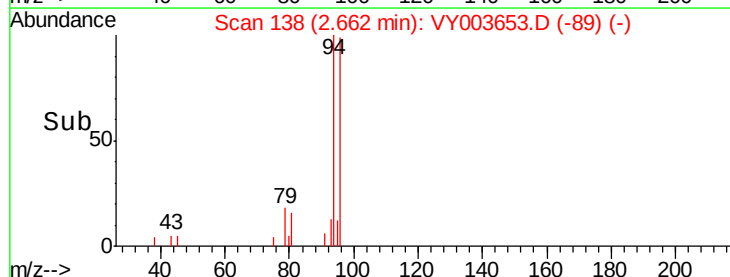
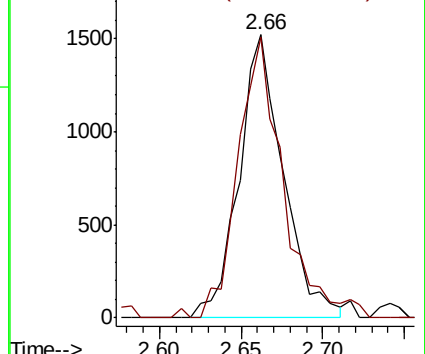
94 100

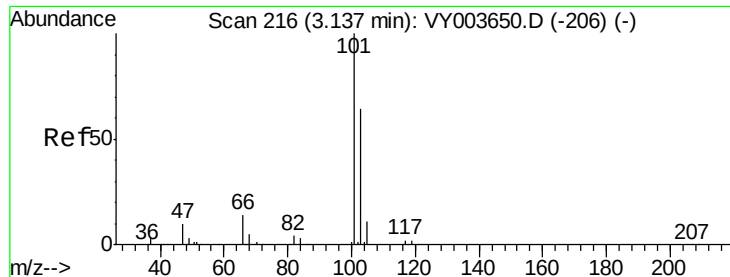
96 99.3 65.2 121.0



Abundance Ion 94.00 (93.70 to 94.70): VY0

Ion 96.00 (95.70 to 96.70): VY0



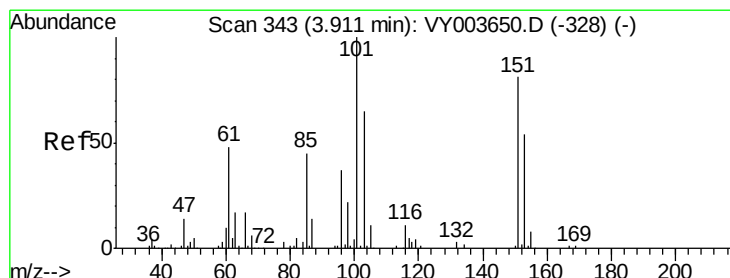
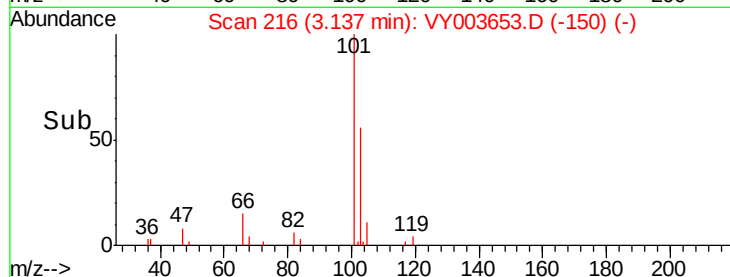
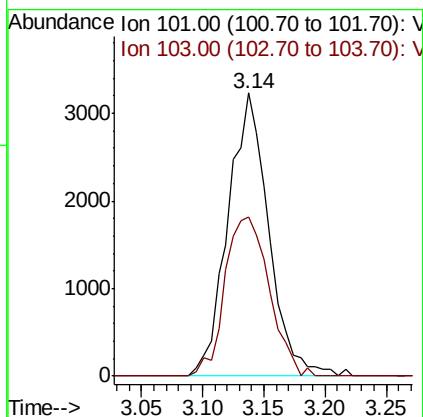
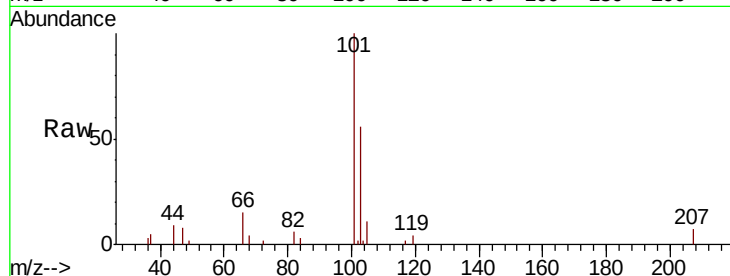


#9

Trichlorofluoromethane
Concen: 1.631 ug/L
RT: 3.14 min Scan# 216
Delta R.T. 0.00 min
Lab File: VY003653.D
Acq: 03 Dec 2020 19:03

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-06

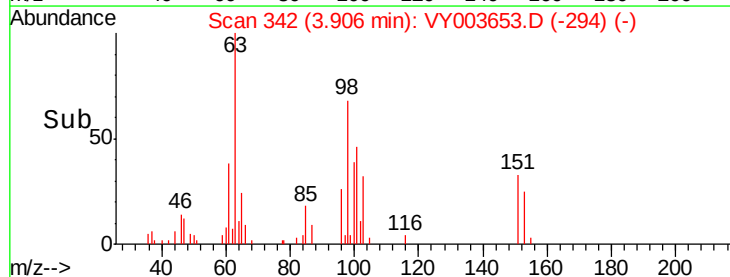
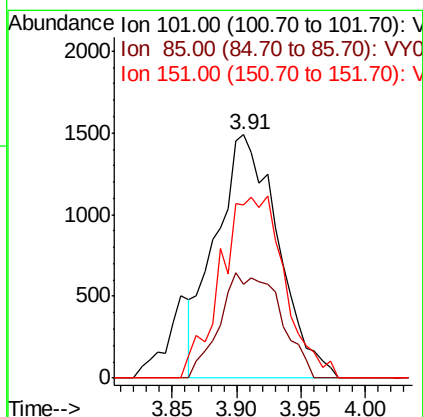
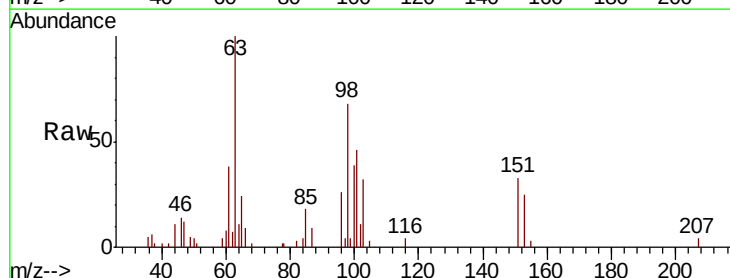
Tot Ion:101 Resp: 7450
Ion Ratio Lower Upper
101 100
103 60.9 51.9 77.9

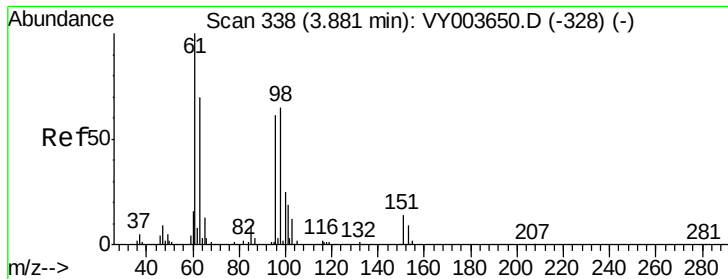


#10

1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 1.642 ug/L
RT: 3.91 min Scan# 342
Delta R.T. -0.01 min
Lab File: VY003653.D
Acq: 03 Dec 2020 19:03

Tgt Ion:101 Resp: 5006
Ion Ratio Lower Upper
101 100
85 18.7 35.6 53.4#
151 32.9 64.2 96.2#





#12

1,1-Dichloroethene

Concen: 1.777 ug/L

RT: 3.88 min Scan# 338

Delta R.T. 0.00 min

Lab File: VY003653.D

Acq: 03 Dec 2020 19:03

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-06

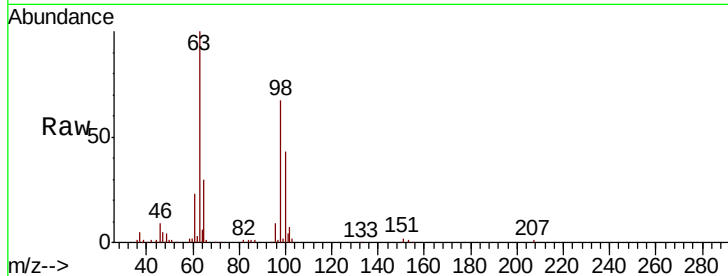
Tot Ion: 96 Resp: 5148

Ion Ratio Lower Upper

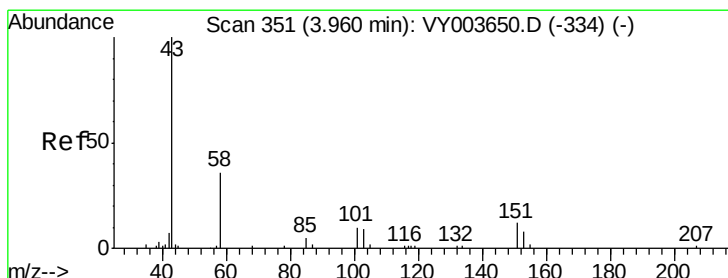
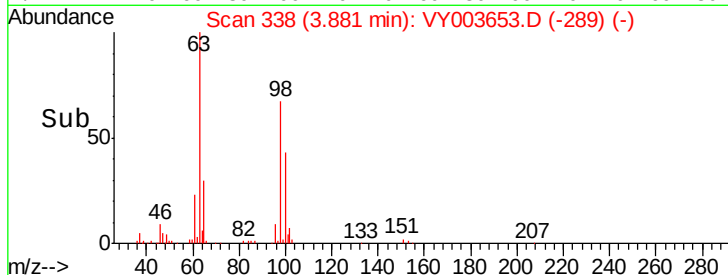
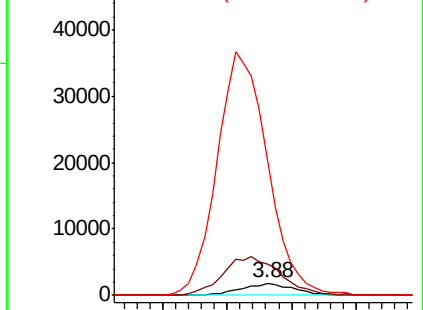
96 100

61 262.2 106.1 197.1#

63 1123.9 62.9 116.9#



Abundance Ion 96.00 (95.70 to 96.70): VY0
Ion 61.00 (60.70 to 61.70): VY0
Ion 63.00 (62.70 to 63.70): VY0



#13

Acetone

Concen: 4.138 ug/L

RT: 3.96 min Scan# 351

Delta R.T. 0.00 min

Lab File: VY003653.D

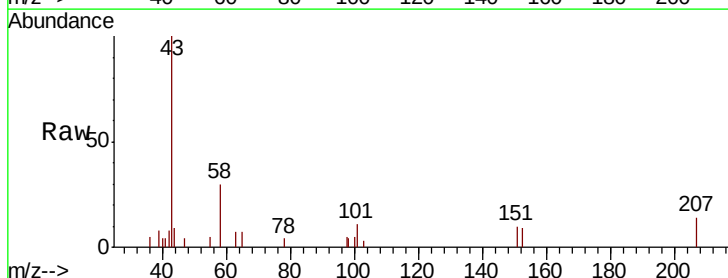
Acq: 03 Dec 2020 19:03

Tgt Ion: 43 Resp: 3707

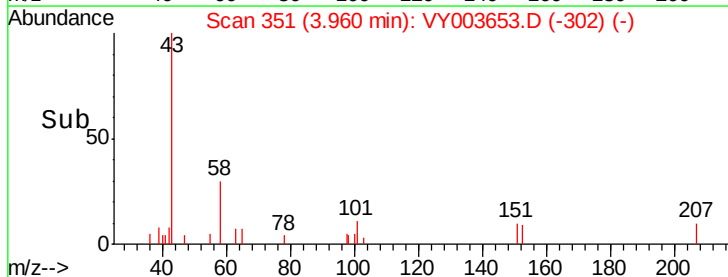
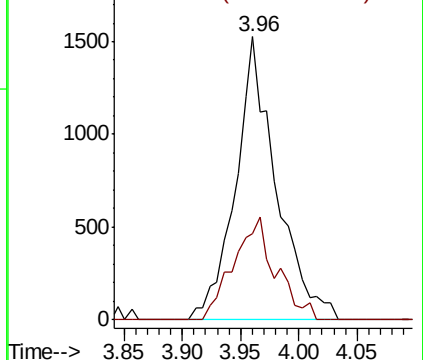
Ion Ratio Lower Upper

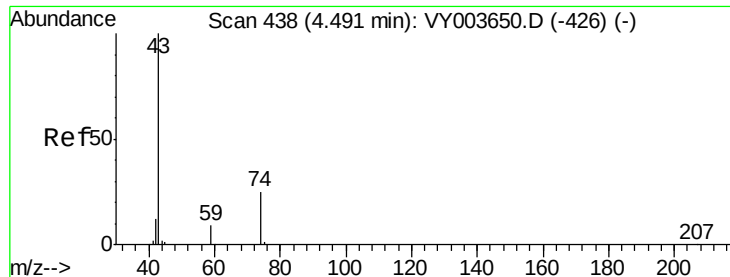
43 100

58 30.5 0.0 61.6



Abundance Ion 43.00 (42.70 to 43.70): VY0
Ion 58.00 (57.70 to 58.70): VY0

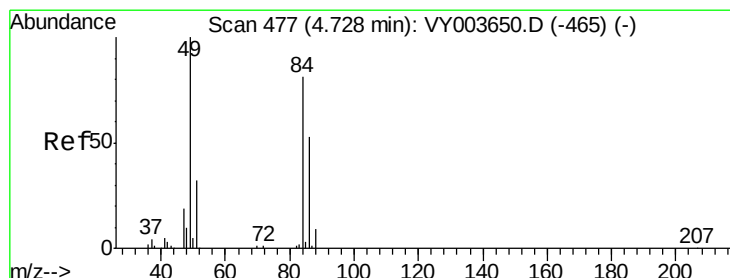
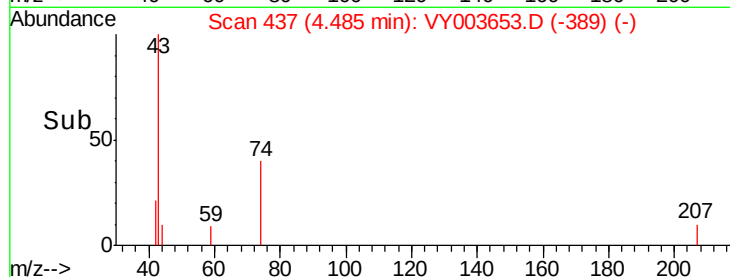
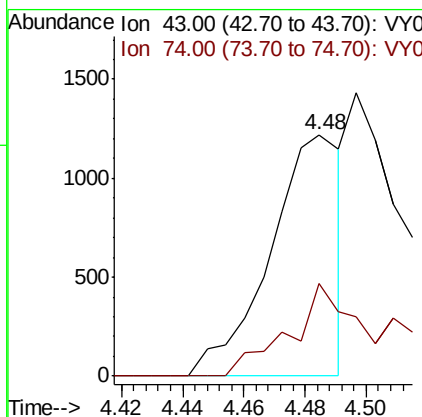
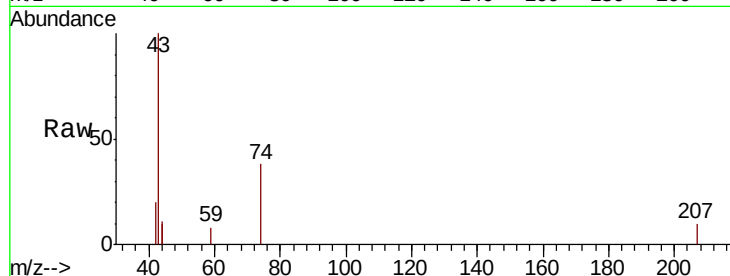




#15
Methyl Acetate
Concen: 0.922 ug/L
RT: 4.48 min Scan# 437
Delta R.T. -0.01 min
Lab File: VY003653.D
Acq: 03 Dec 2020 19:03

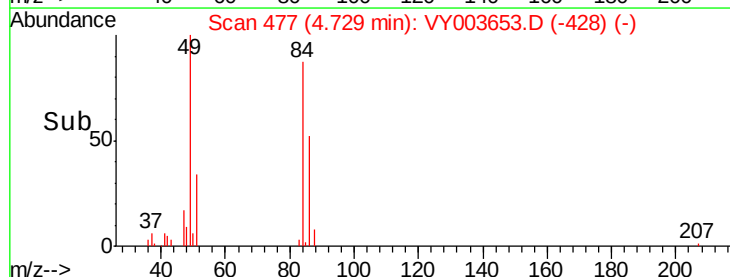
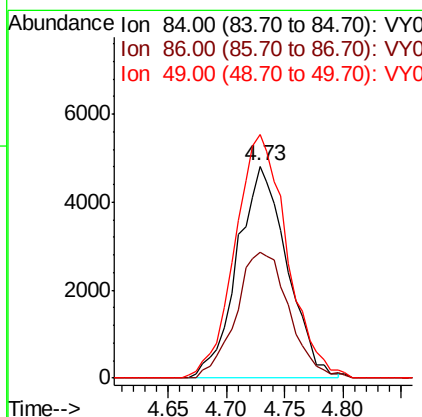
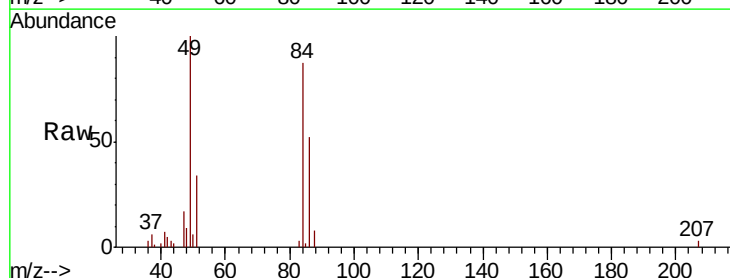
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-06

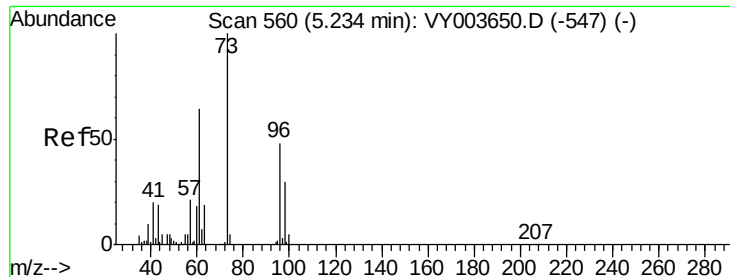
Tot Ion: 43 Resp: 1990
Ion Ratio Lower Upper
43 100
74 34.9 18.2 27.2#



#16
Methylene chloride
Concen: 3.821 ug/L
RT: 4.73 min Scan# 477
Delta R.T. 0.00 min
Lab File: VY003653.D
Acq: 03 Dec 2020 19:03

Tgt Ion: 84 Resp: 14374
Ion Ratio Lower Upper
84 100
86 59.2 43.3 80.3
49 114.8 85.3 158.5





#17

trans-1,2-Dichloroethene

Concen: 1.436 ug/L

RT: 5.23 min Scan# 560

Delta R.T. 0.00 min

Lab File: VY003653.D

Acq: 03 Dec 2020 19:03

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-06

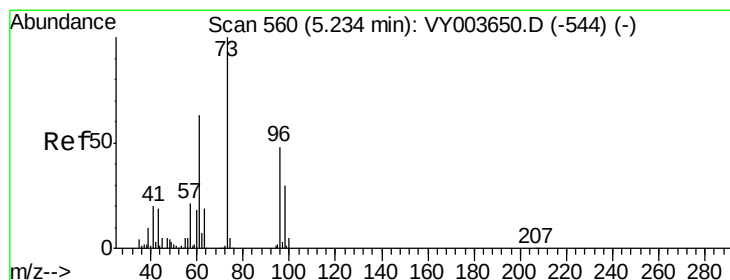
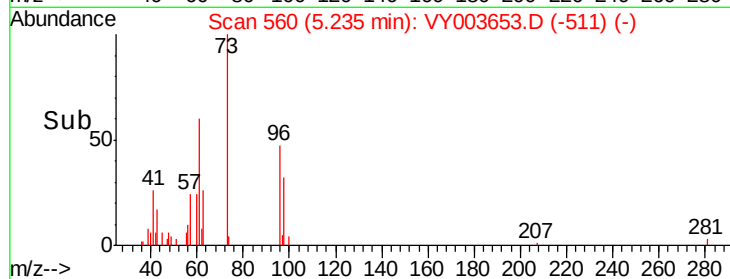
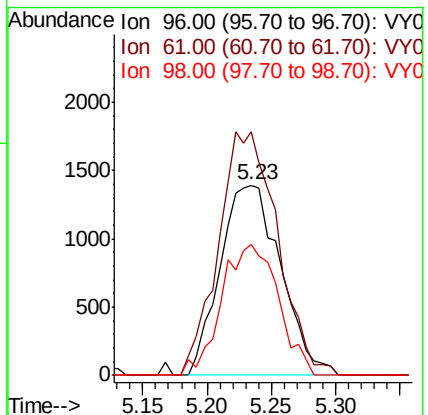
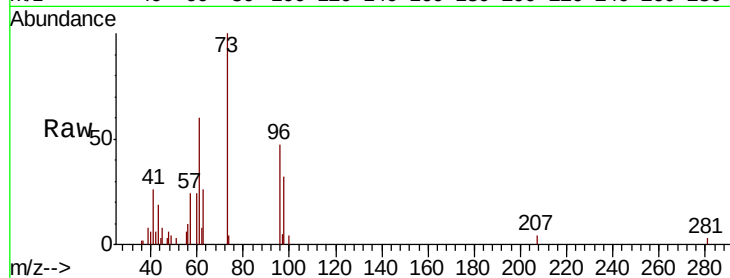
Tot Ion: 96 Resp: 4570

Ion Ratio Lower Upper

96 100

61 128.3 89.5 166.1

98 68.9 45.5 84.5



#18

Methyl tert-butyl Ether

Concen: 1.477 ug/L

RT: 5.23 min Scan# 559

Delta R.T. -0.01 min

Lab File: VY003653.D

Acq: 03 Dec 2020 19:03

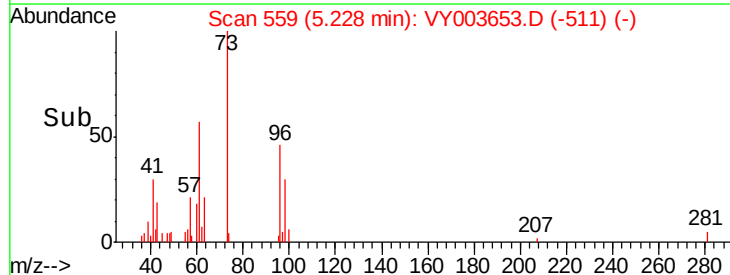
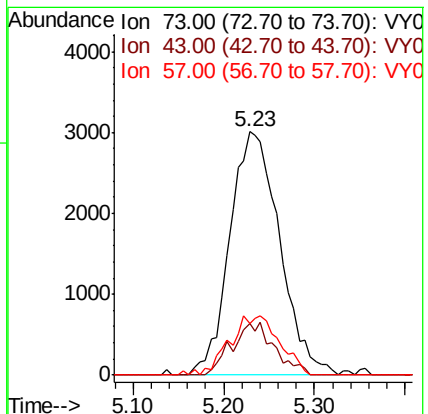
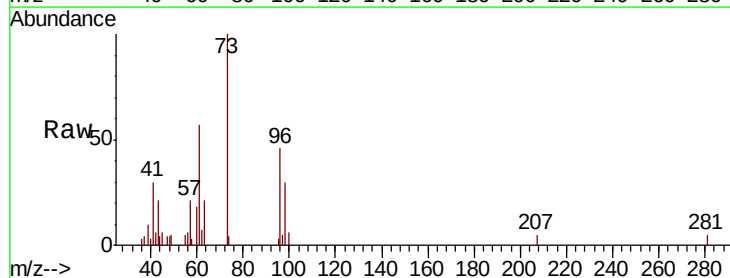
Tgt Ion: 73 Resp: 11485

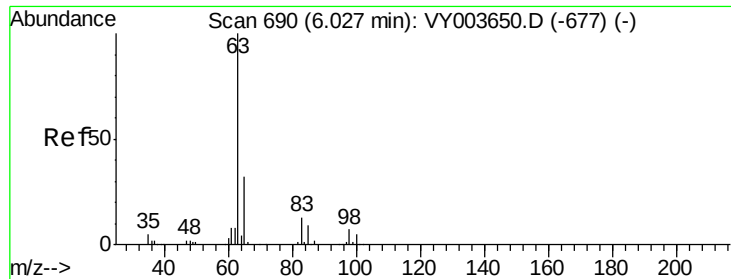
Ion Ratio Lower Upper

73 100

43 3.2 15.2 22.8#

57 10.8 18.1 27.1#

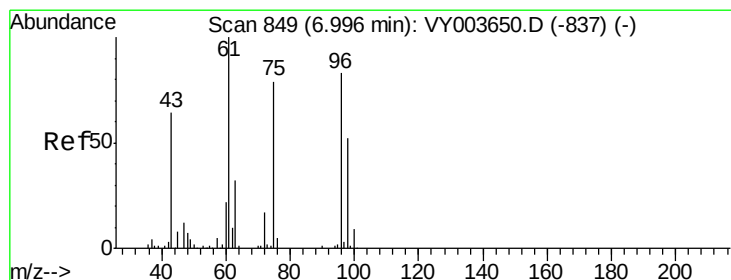
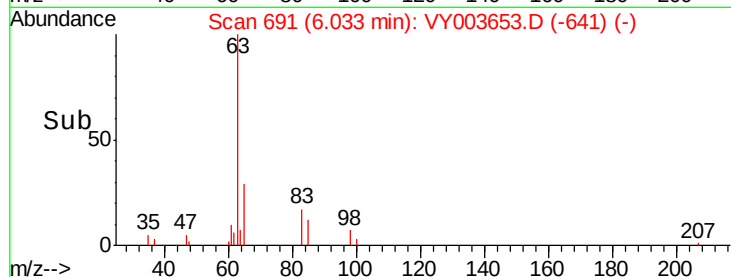
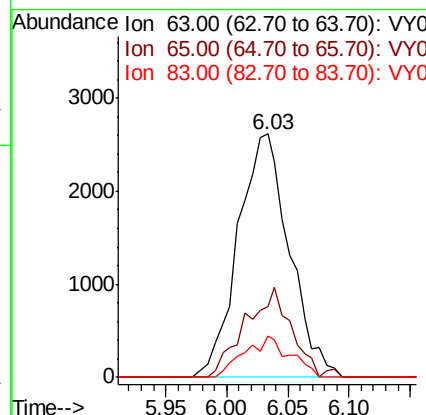
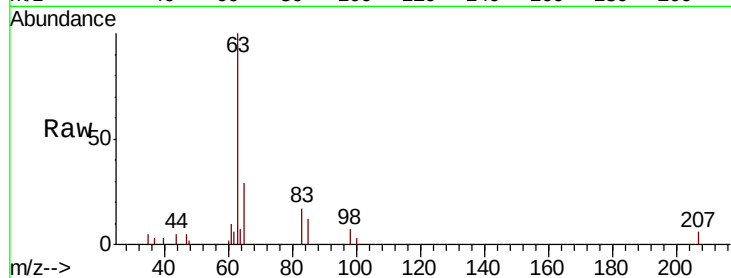




#19
 1,1-Dichloroethane
 Concen: 1.421 ug/L
 RT: 6.03 min Scan# 691
 Delta R.T. 0.01 min
 Lab File: VY003653.D
 Acq: 03 Dec 2020 19:03

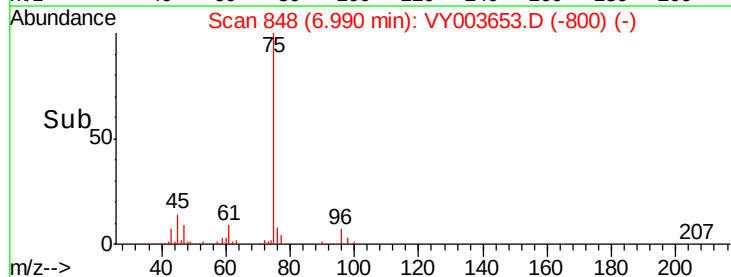
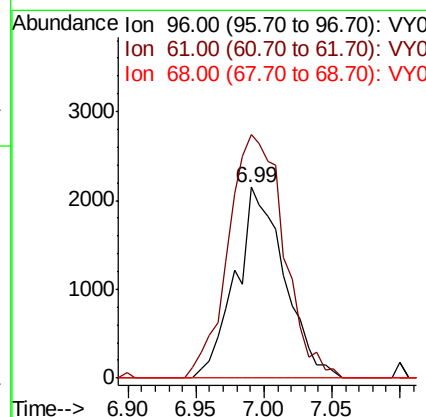
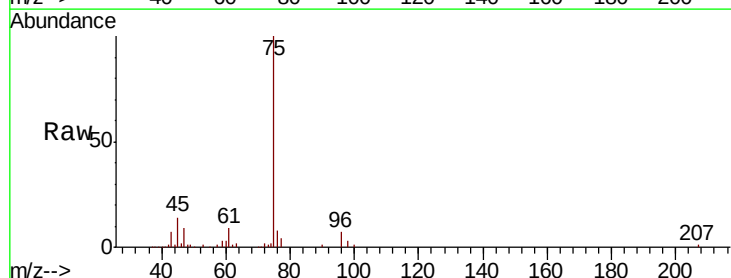
Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-06

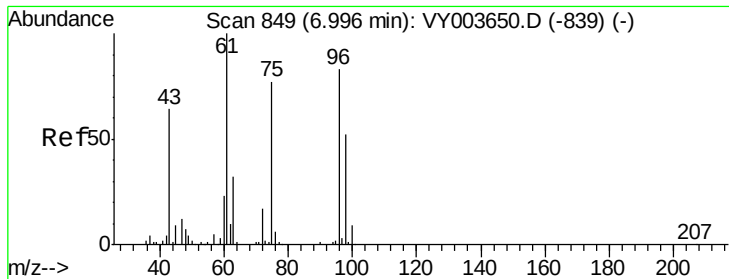
Tot Ion: 63 Resp: 7612
 Ion Ratio Lower Upper
 63 100
 65 29.1 21.9 40.7
 83 17.2 9.5 17.7



#20
 cis-1,2-Dichloroethene
 Concen: 1.619 ug/L
 RT: 6.99 min Scan# 848
 Delta R.T. -0.01 min
 Lab File: VY003653.D
 Acq: 03 Dec 2020 19:03

Tgt Ion: 96 Resp: 5403
 Ion Ratio Lower Upper
 96 100
 61 127.6 85.8 159.4
 68 0.0 0.0 0.0

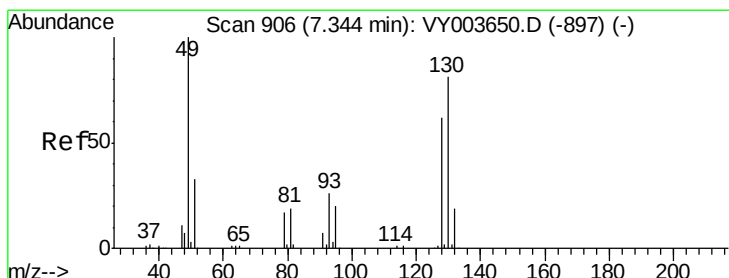
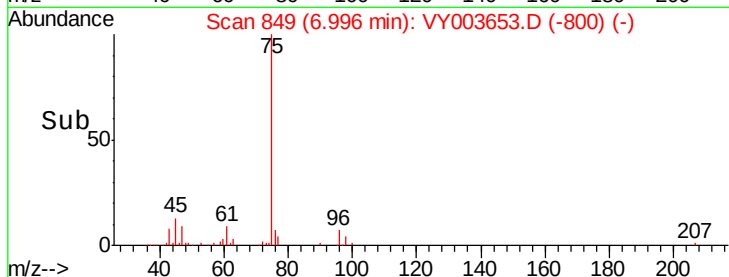
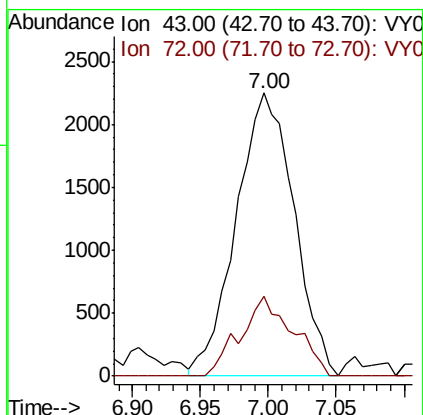
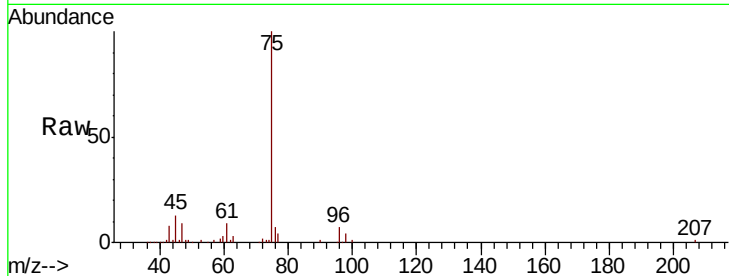




#22
2-Butanone
Concen: 4.442 ug/L
RT: 7.00 min Scan# 849
Delta R.T. 0.00 min
Lab File: VY003653.D
Acq: 03 Dec 2020 19:03

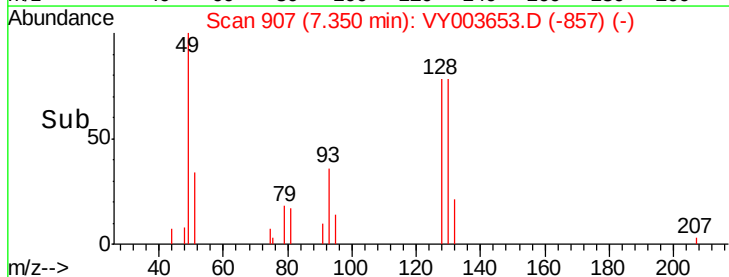
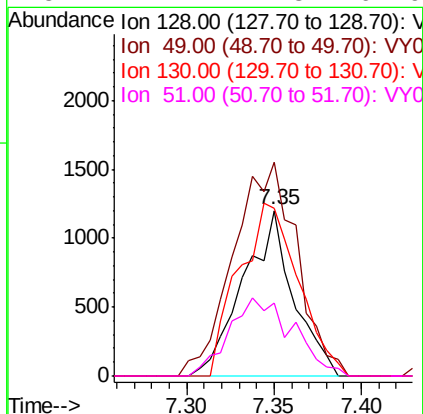
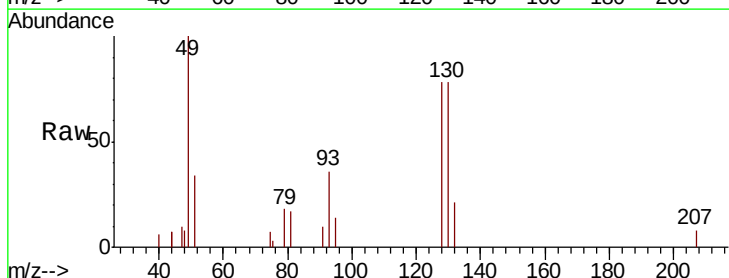
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-06

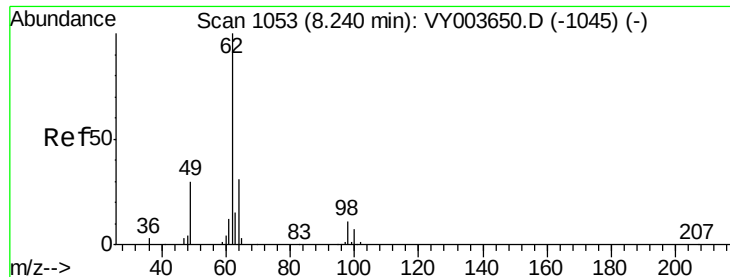
Tot Ion: 43 Resp: 6691
Ion Ratio Lower Upper
43 100
72 10.3 13.5 40.5#



#23
Bromochloromethane
Concen: 1.482 ug/L
RT: 7.35 min Scan# 907
Delta R.T. 0.01 min
Lab File: VY003653.D
Acq: 03 Dec 2020 19:03

Tgt Ion:128 Resp: 2412
Ion Ratio Lower Upper
128 100
49 128.9 118.1 219.3
130 100.9 90.5 168.1
51 44.4 41.3 61.9

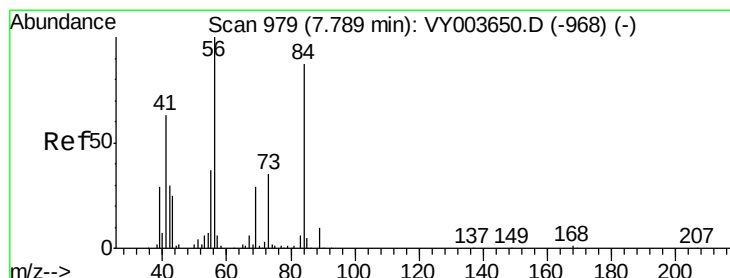
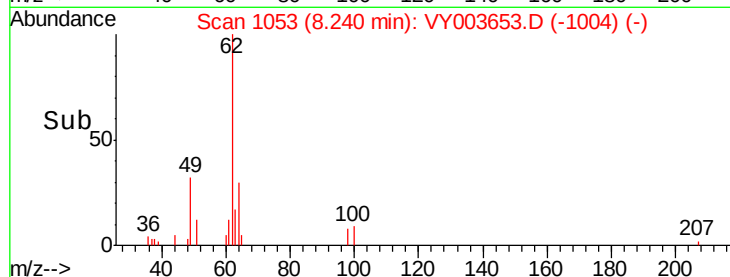
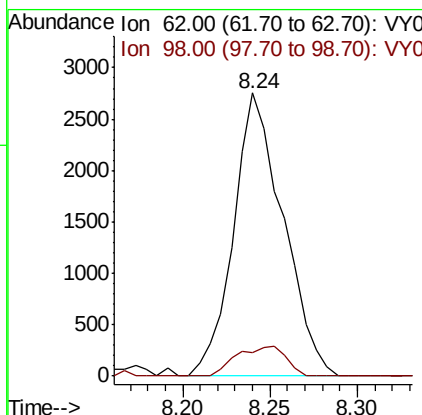
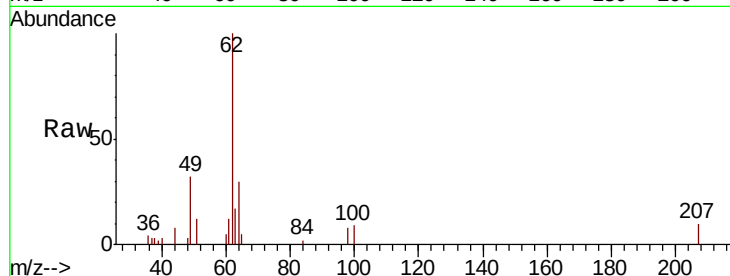




#27
 1,2-Dichloroethane
 Concen: 1.542 ug/L
 RT: 8.24 min Scan# 1053
 Delta R.T. 0.00 min
 Lab File: VY003653.D
 Acq: 03 Dec 2020 19:03

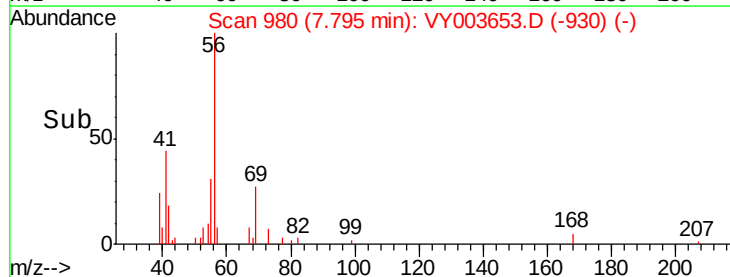
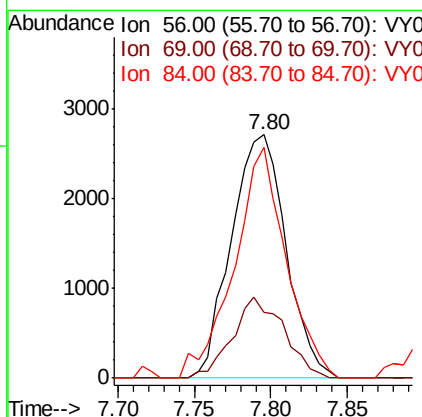
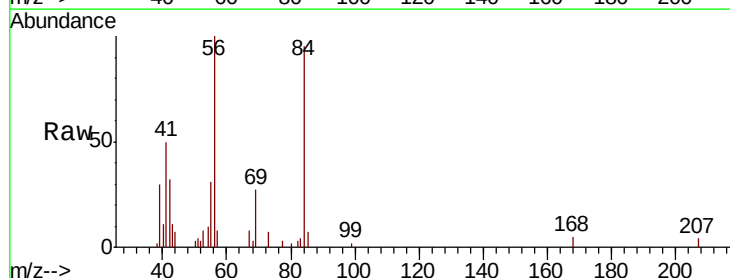
Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-06

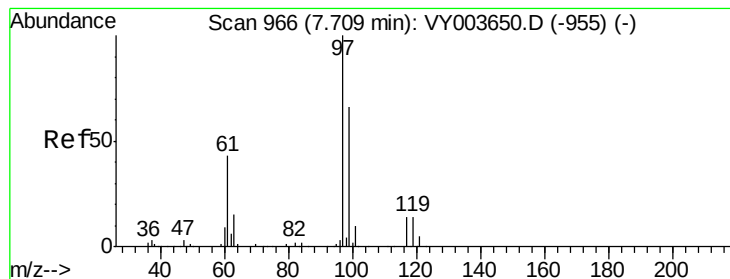
Tot Ion: 62 Resp: 5446
 Ion Ratio Lower Upper
 62 100
 98 8.5 7.5 11.3



#29
 Cyclohexane
 Concen: 1.359 ug/L
 RT: 7.80 min Scan# 980
 Delta R.T. 0.01 min
 Lab File: VY003653.D
 Acq: 03 Dec 2020 19:03

Tgt Ion: 56 Resp: 6741
 Ion Ratio Lower Upper
 56 100
 69 31.4 23.9 35.9
 84 89.9 71.9 107.9





#30

1,1,1-Trichloroethane

Concen: 1.515 ug/L

RT: 7.71 min Scan# 966

Delta R.T. 0.00 min

Lab File: VY003653.D

Acq: 03 Dec 2020 19:03

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-06

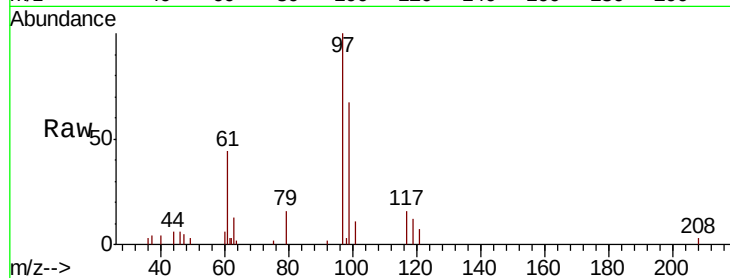
Tot Ion: 97 Resp: 7216

Ion Ratio Lower Upper

97 100

99 65.3 50.6 76.0

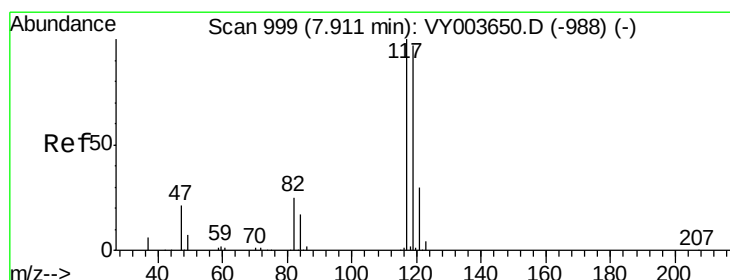
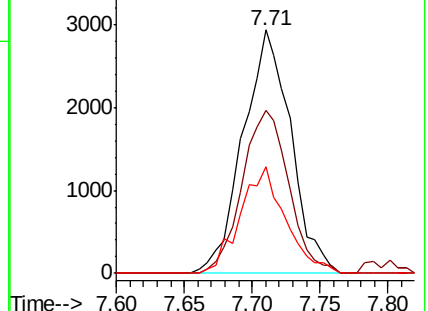
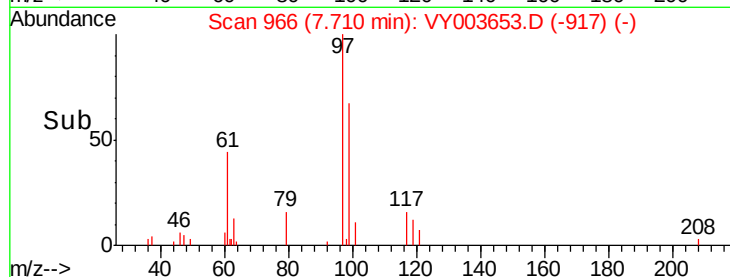
61 41.4 34.3 51.5



Abundance Ion 97.00 (96.70 to 97.70): VY003653.D (-917) (-)

Ion 99.00 (98.70 to 99.70): VY003653.D (-917) (-)

Ion 61.05 (60.75 to 61.75): VY003653.D (-917) (-)



#31

Carbon tetrachloride

Concen: 1.479 ug/L

RT: 7.91 min Scan# 999

Delta R.T. 0.00 min

Lab File: VY003653.D

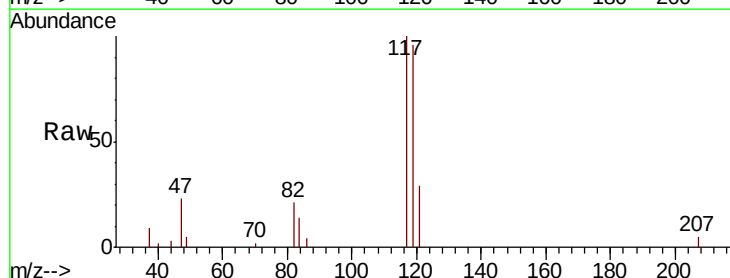
Acq: 03 Dec 2020 19:03

Tgt Ion: 117 Resp: 6361

Ion Ratio Lower Upper

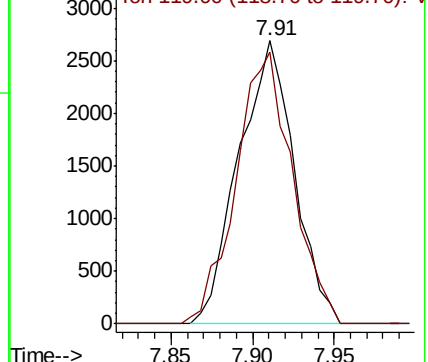
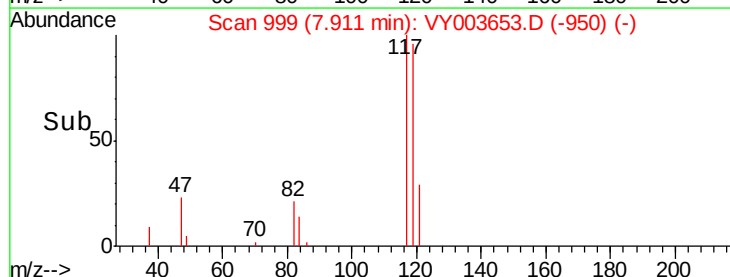
117 100

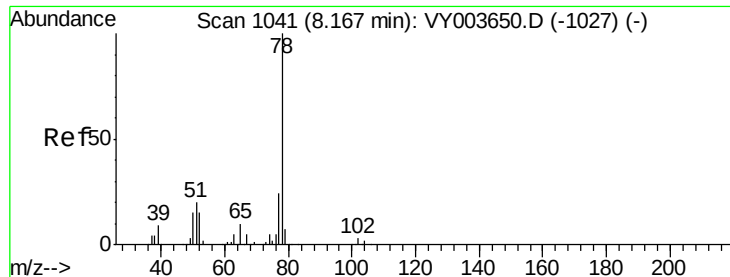
119 97.3 77.7 116.5



Abundance Ion 117.00 (116.70 to 117.70): VY003653.D (-950) (-)

Ion 119.00 (118.70 to 119.70): VY003653.D (-950) (-)





#33

Benzene

Concen: 1.485 ug/L

RT: 8.17 min Scan# 1041

Delta R.T. 0.00 min

Lab File: VY003653.D

Acq: 03 Dec 2020 19:03

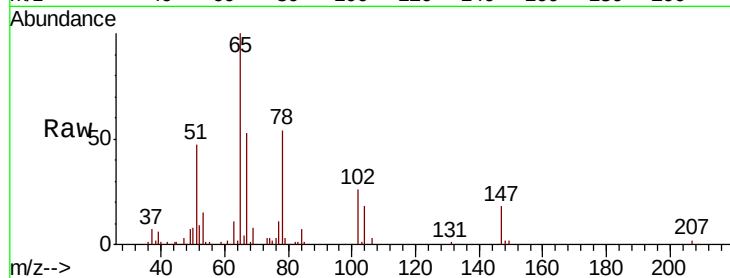
Instrument :

MSVOA_Y

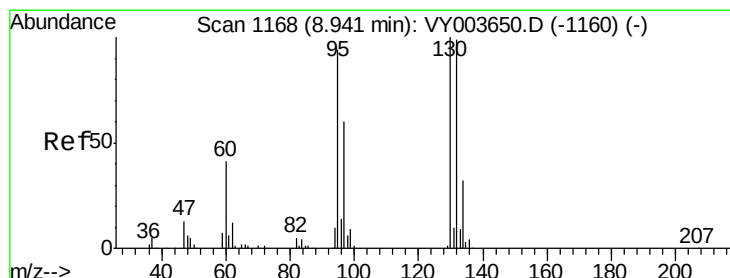
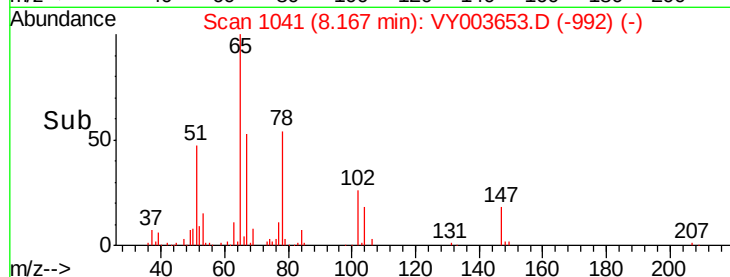
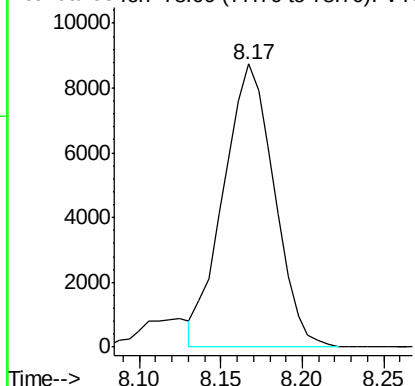
ClientSampleId :

MDL-SOIL-06

Tgt Ion: 78 Resp: 18965



Abundance Ion 78.00 (77.70 to 78.70): VY0



#34

Trichloroethene

Concen: 1.673 ug/L

RT: 8.94 min Scan# 1168

Delta R.T. 0.00 min

Lab File: VY003653.D

Acq: 03 Dec 2020 19:03

Tgt Ion: 95 Resp: 5334

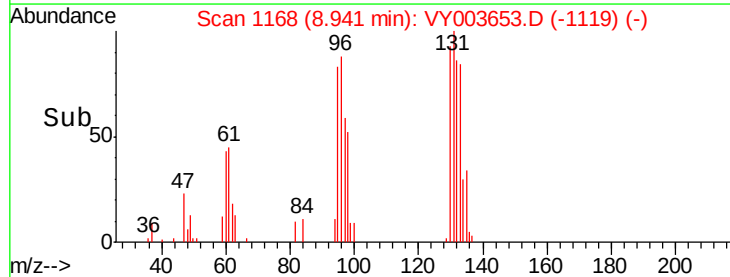
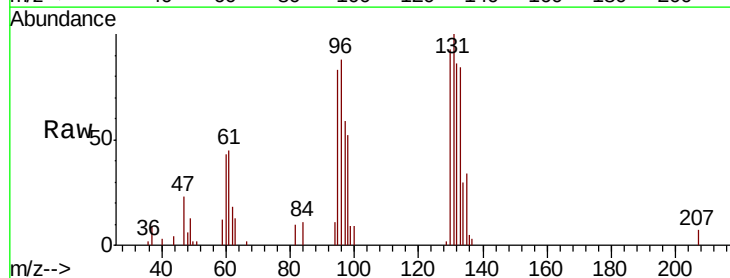
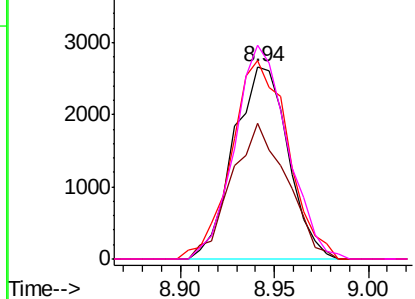
Ion	Ratio	Lower	Upper
95	100		
97	70.4	44.7	83.1
132	103.4	74.7	138.7
130	111.0	76.8	142.6

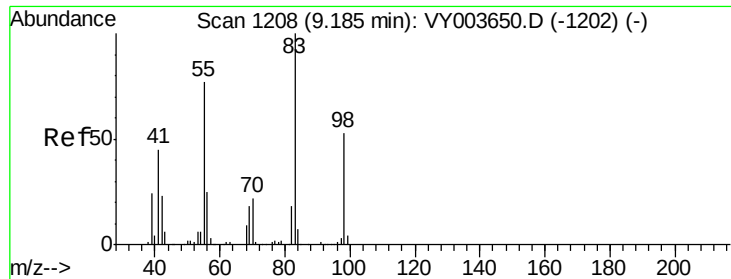
Abundance Ion 95.00 (94.70 to 95.70): VY0

Ion 97.00 (96.70 to 97.70): VY0

Ion 132.00 (131.70 to 132.70): VY0

Ion 130.00 (129.70 to 130.70): VY0

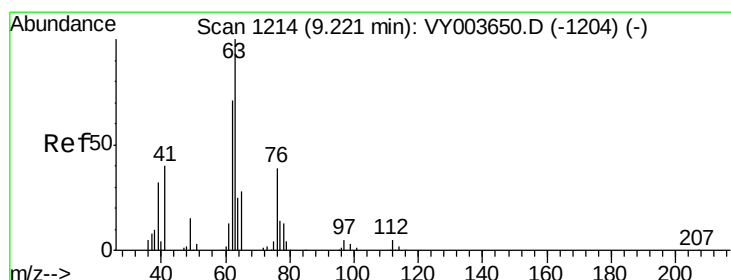
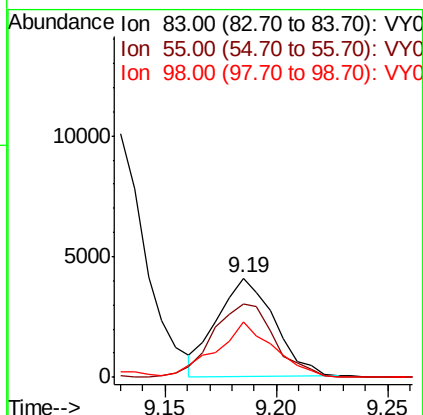
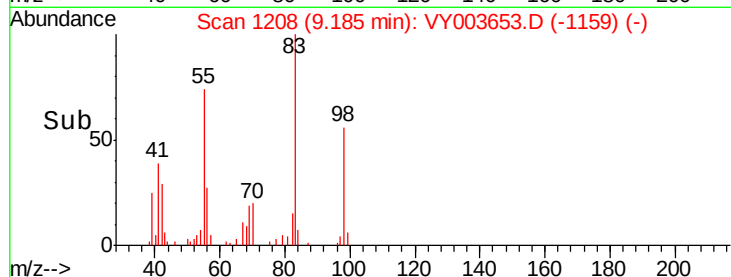
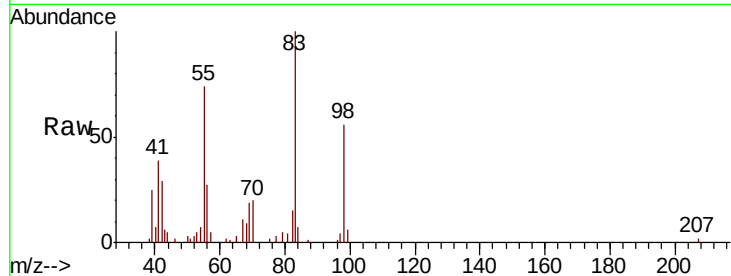




#35
Methvlcvclohexane
Concen: 1.326 ug/L
RT: 9.19 min Scan# 1208
Delta R.T. 0.00 min
Lab File: VY003653.D
Acq: 03 Dec 2020 19:03

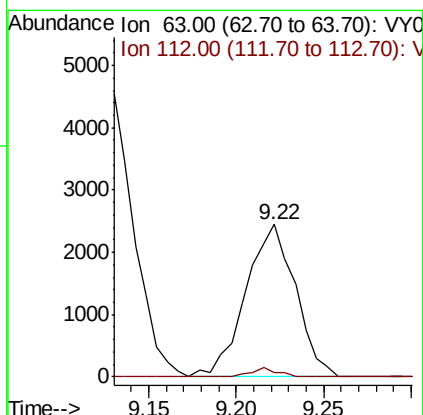
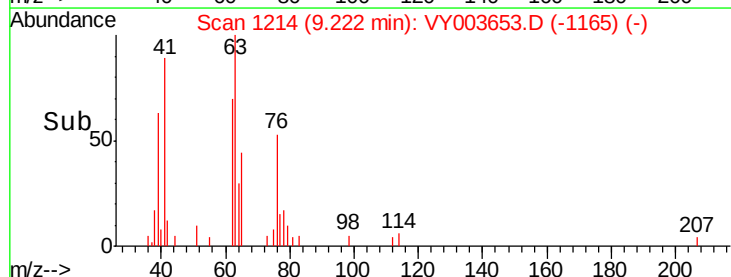
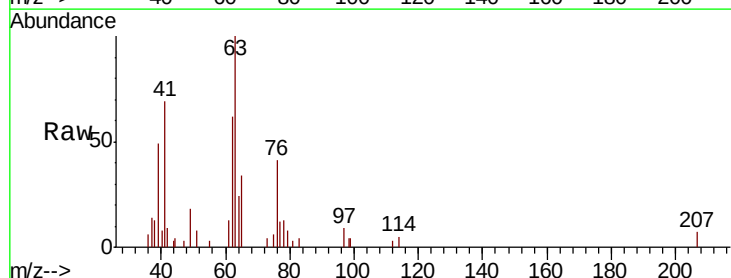
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-06

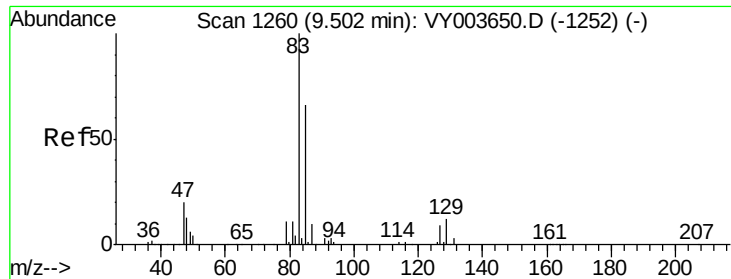
Tot Ion: 83 Resp: 7225
Ion Ratio Lower Upper
83 100
55 81.8 58.3 87.5
98 57.1 39.0 58.6



#37
1,2-Dichloropropane
Concen: 1.491 ug/L
RT: 9.22 min Scan# 1214
Delta R.T. 0.00 min
Lab File: VY003653.D
Acq: 03 Dec 2020 19:03

Tgt Ion: 63 Resp: 4834
Ion Ratio Lower Upper
63 100
112 3.1 3.7 5.5#

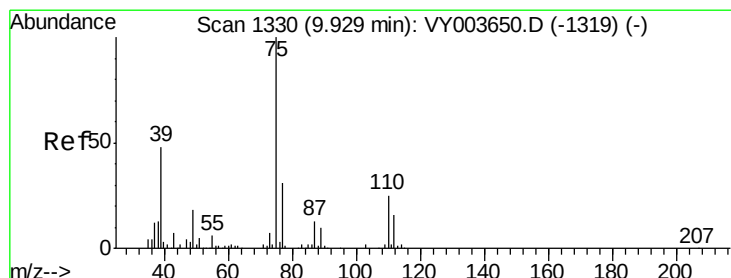
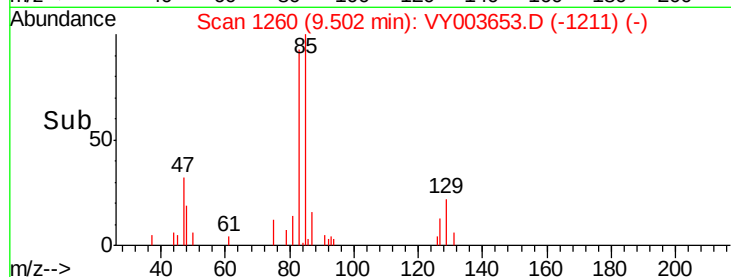
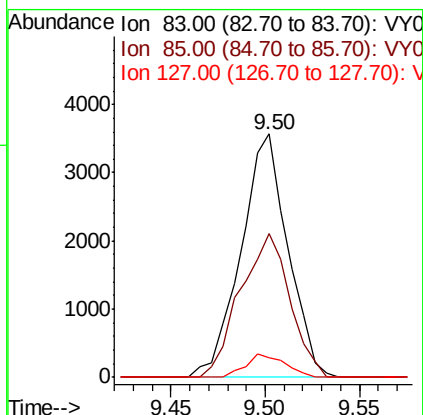
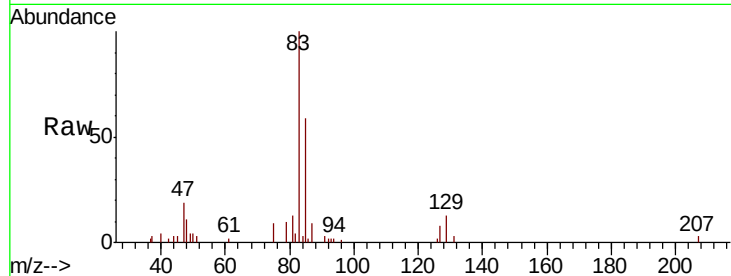




#38
 Bromodichloromethane
 Concen: 1.507 ug/L
 RT: 9.50 min Scan# 1260
 Delta R.T. 0.00 min
 Lab File: VY003653.D
 Acq: 03 Dec 2020 19:03

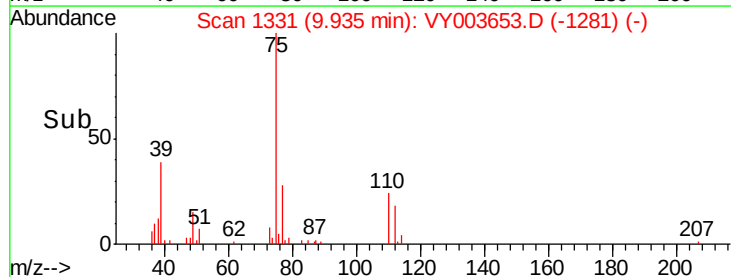
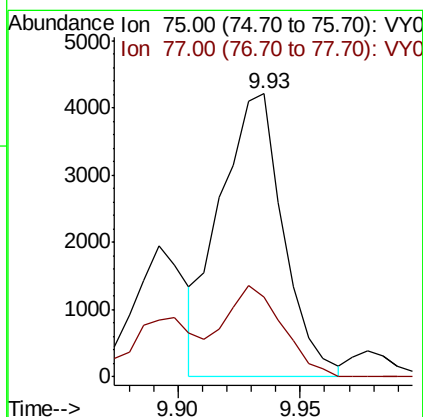
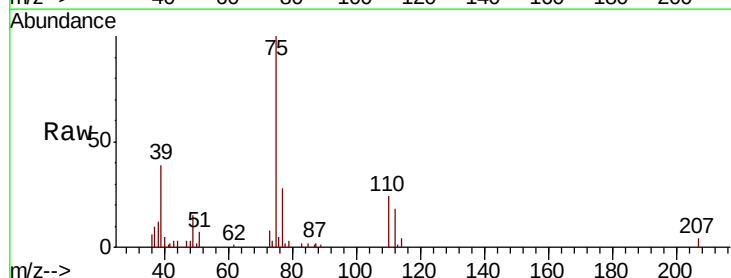
Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-06

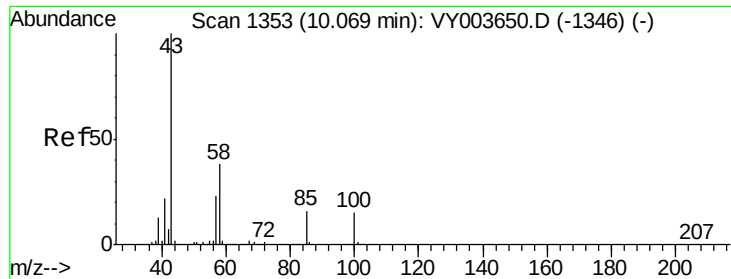
Tot Ion: 83 Resp: 6150
 Ion Ratio Lower Upper
 83 100
 85 59.0 43.1 80.1
 127 7.9 7.1 10.7



#39
 cis-1,3-Dichloropropene
 Concen: 1.507 ug/L
 RT: 9.93 min Scan# 1331
 Delta R.T. 0.01 min
 Lab File: VY003653.D
 Acq: 03 Dec 2020 19:03

Tgt Ion: 75 Resp: 7545
 Ion Ratio Lower Upper
 75 100
 77 28.1 23.5 43.7

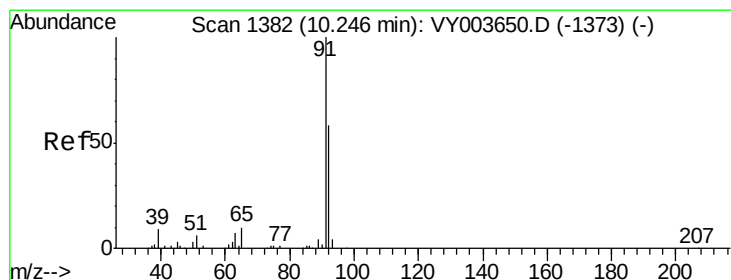
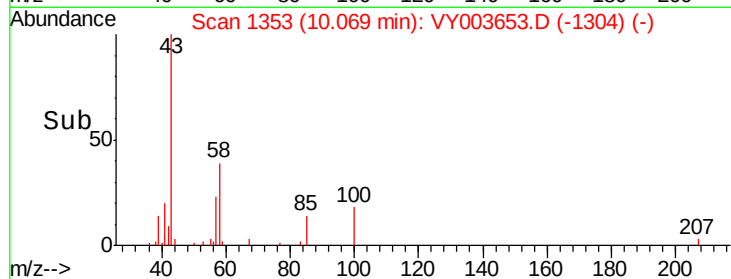
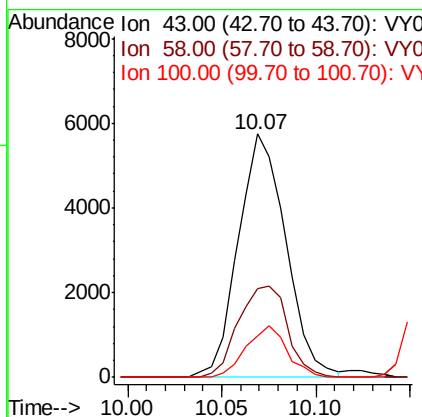
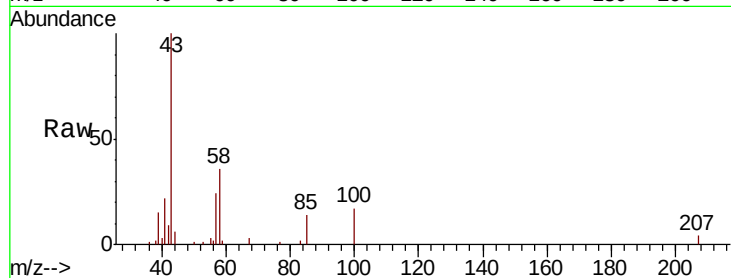




#40
4-Methyl-2-pentanone
Concen: 3.537 ug/L
RT: 10.07 min Scan# 1353
Delta R.T. 0.00 min
Lab File: VY003653.D
Acq: 03 Dec 2020 19:03

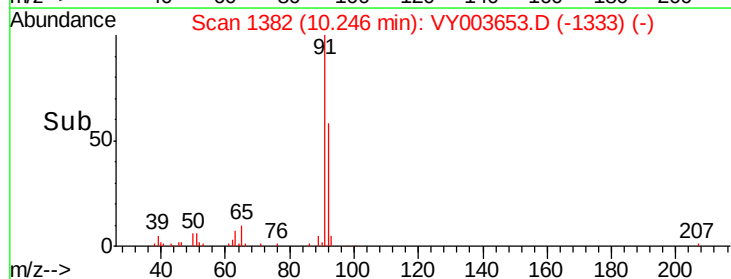
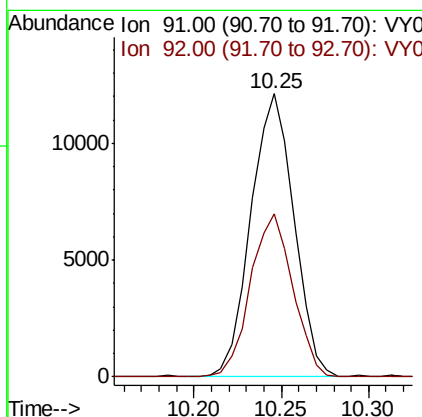
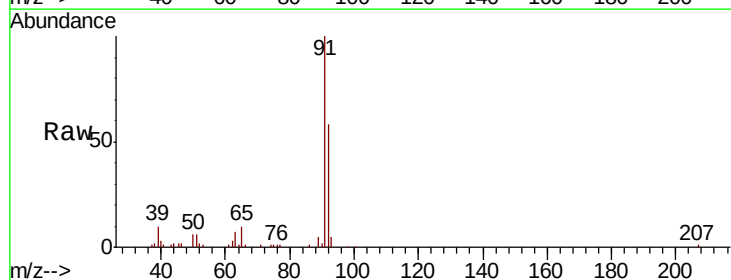
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-06

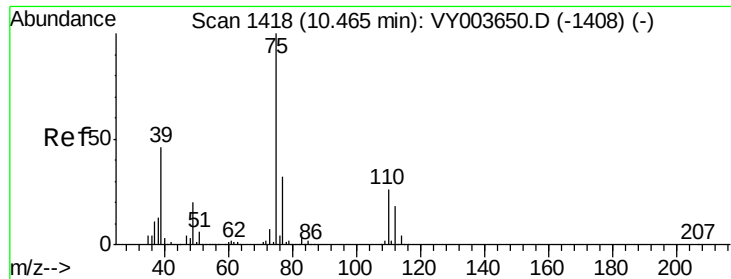
Tot Ion: 43 Resp: 10067
Ion Ratio Lower Upper
43 100
58 38.7 30.7 46.1
100 18.1 12.1 18.1#



#42
Toluene
Concen: 1.543 ug/L
RT: 10.25 min Scan# 1382
Delta R.T. 0.00 min
Lab File: VY003653.D
Acq: 03 Dec 2020 19:03

Tgt Ion: 91 Resp: 20699
Ion Ratio Lower Upper
91 100
92 57.7 40.1 74.5





#44

trans-1,3-Dichloropropene

Concen: 1.567 ug/L

RT: 10.47 min Scan# 1418

Delta R.T. 0.00 min

Lab File: VY003653.D

Acq: 03 Dec 2020 19:03

Instrument :

MSVOA_Y

ClientSampleId :

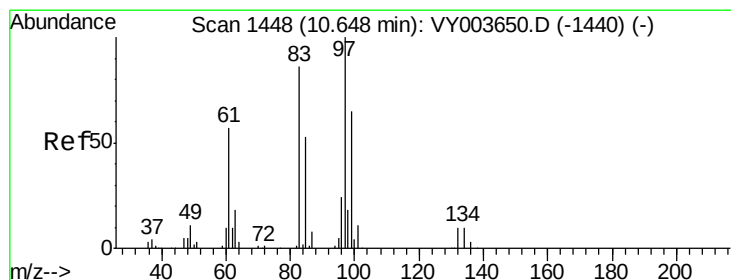
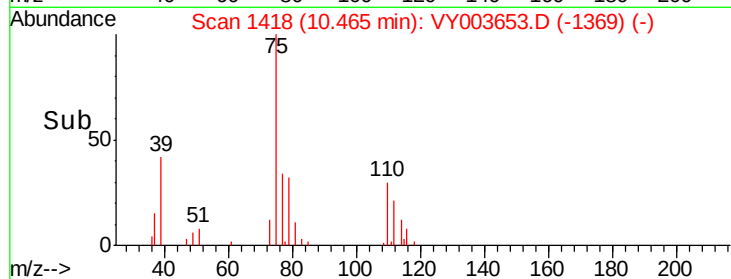
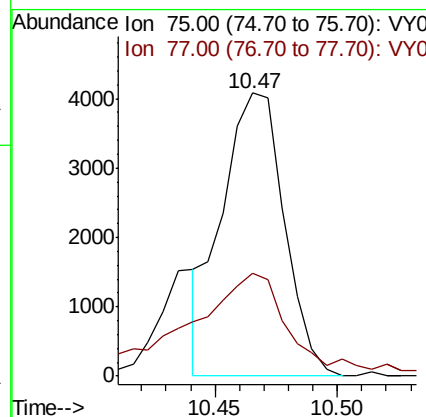
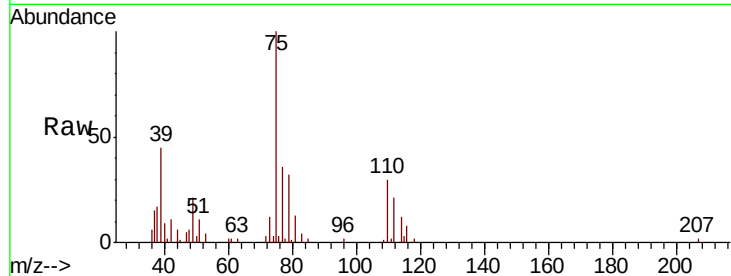
MDL-SOIL-06

Tot Ion: 75 Resp: 7243

Ion Ratio Lower Upper

75 100

77 36.3 22.9 42.5



#45

1,1,2-Trichloroethane

Concen: 1.516 ug/L

RT: 10.65 min Scan# 1448

Delta R.T. 0.00 min

Lab File: VY003653.D

Acq: 03 Dec 2020 19:03

Tgt Ion: 97 Resp: 4127

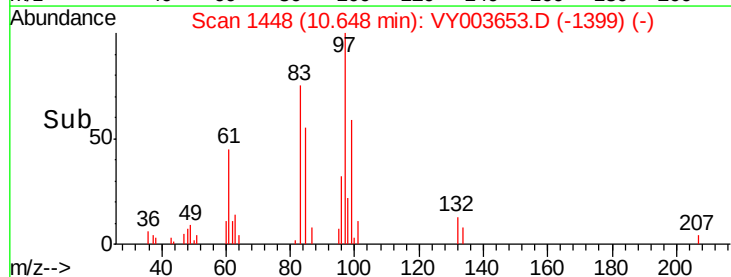
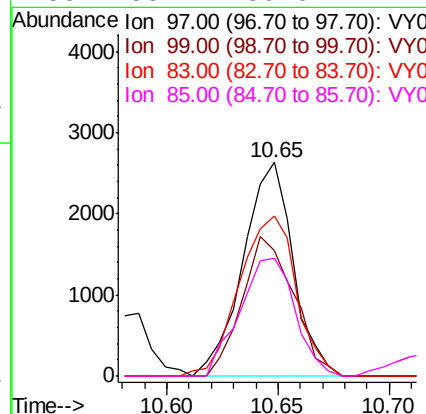
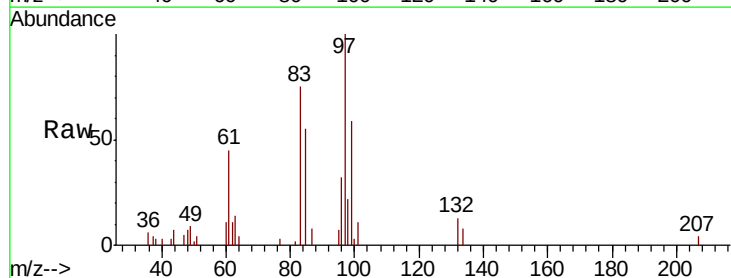
Ion Ratio Lower Upper

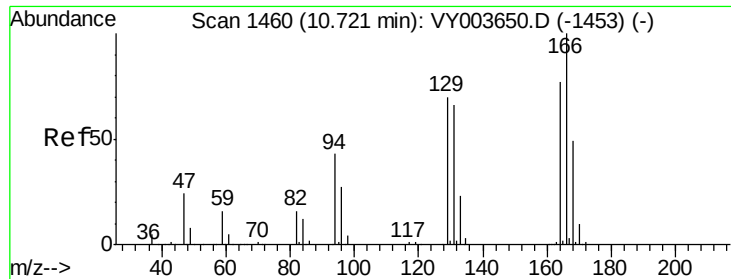
97 100

99 58.7 45.1 83.9

83 74.7 59.7 110.9

85 55.4 39.0 72.4





#46

Tetrachloroethene

Concen: 1.682 ug/L

RT: 10.72 min Scan# 1460

Delta R.T. 0.00 min

Lab File: VY003653.D

Acq: 03 Dec 2020 19:03

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-06

Tot Ion:164 Resp: 4588

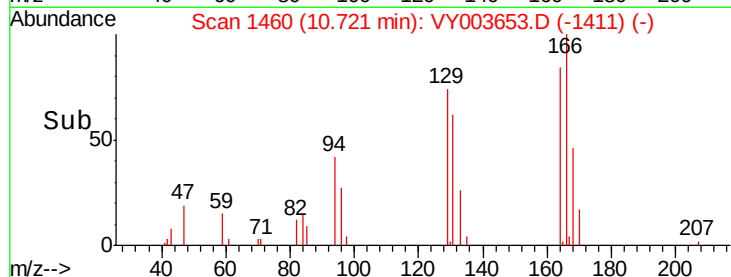
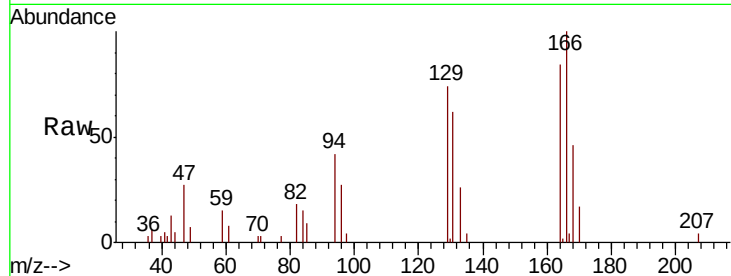
Ion Ratio Lower Upper

164 100

129 85.2 58.9 109.5

131 71.2 59.0 109.6

166 119.7 87.8 163.0

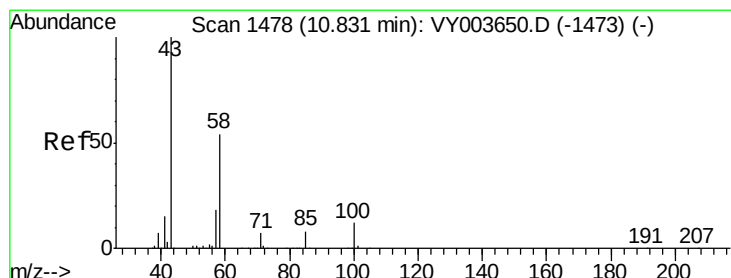
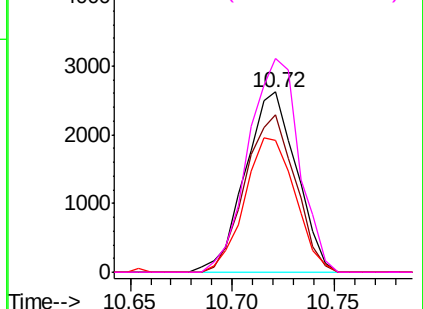


Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V



#48

2-Hexanone

Concen: 3.044 ug/L

RT: 10.83 min Scan# 1478

Delta R.T. 0.00 min

Lab File: VY003653.D

Acq: 03 Dec 2020 19:03

Tgt Ion: 43 Resp: 6324

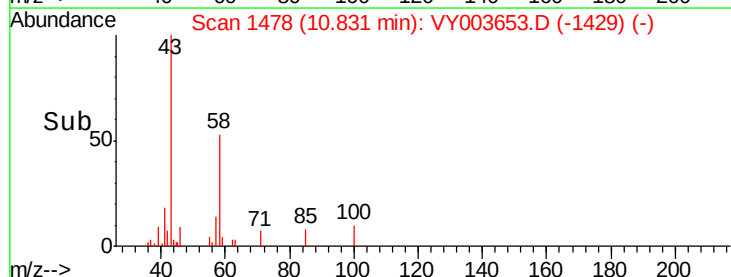
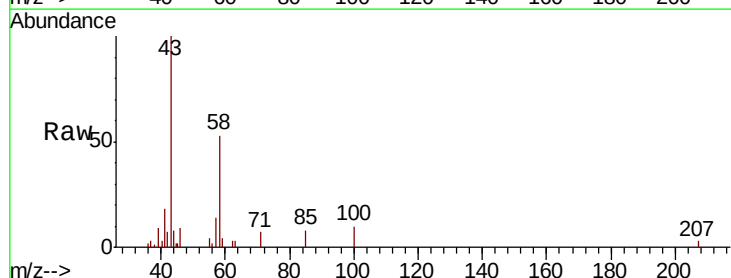
Ion Ratio Lower Upper

43 100

58 56.3 43.0 64.6

57 18.0 14.6 21.8

100 9.0 9.7 14.5#

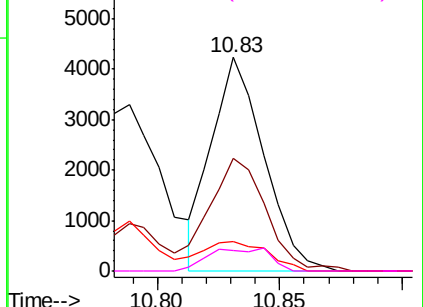


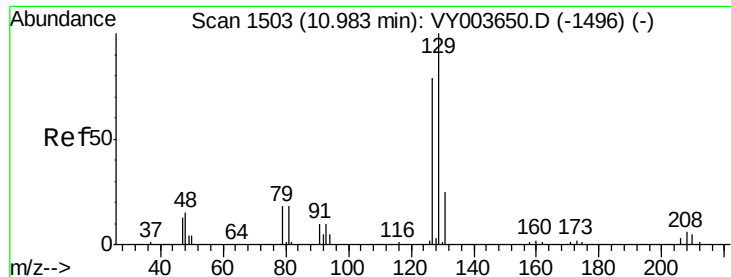
Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0

Ion 57.00 (56.70 to 57.70): VY0

Ion 100.00 (99.70 to 100.70): VY0





#49

Dibromochloromethane

Concen: 1.506 ug/L

RT: 10.98 min Scan# 1503

Delta R.T. 0.00 min

Lab File: VY003653.D

Acq: 03 Dec 2020 19:03

Instrument :

MSVOA_Y

ClientSampleId :

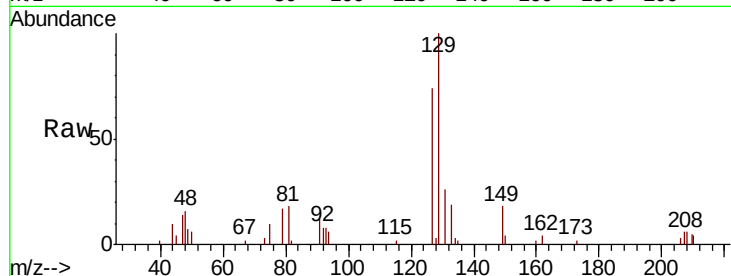
MDL-SOIL-06

Tot Ion:129 Resp: 4737

Ion Ratio Lower Upper

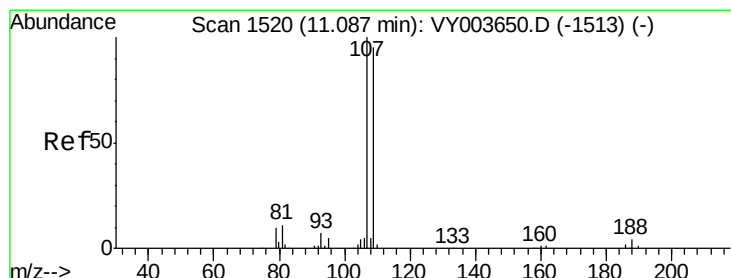
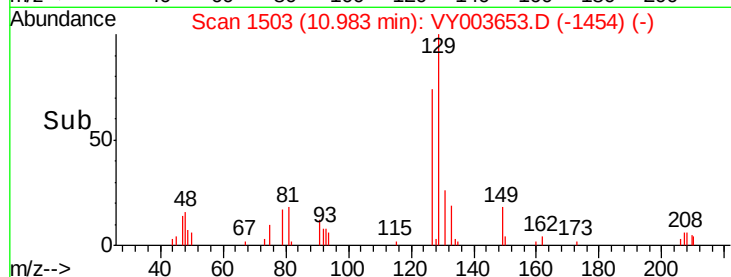
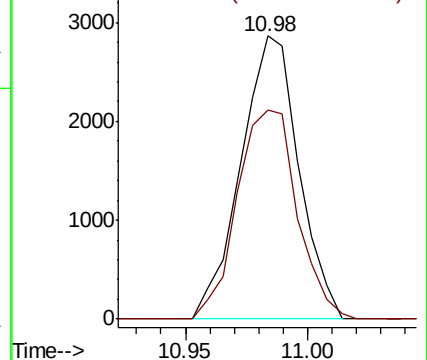
129 100

127 73.8 55.0 102.2



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#50

1,2-Dibromoethane

Concen: 1.451 ug/L

RT: 11.09 min Scan# 1520

Delta R.T. 0.00 min

Lab File: VY003653.D

Acq: 03 Dec 2020 19:03

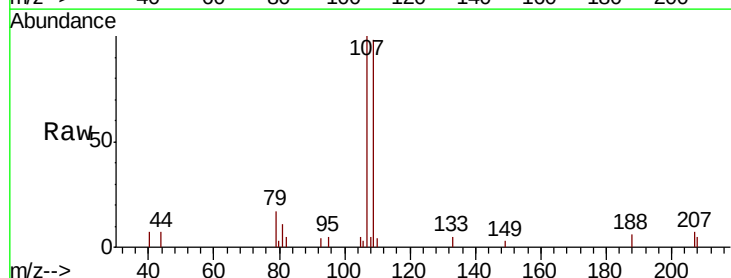
Tgt Ion:107 Resp: 3821

Ion Ratio Lower Upper

107 100

109 97.5 65.5 121.7

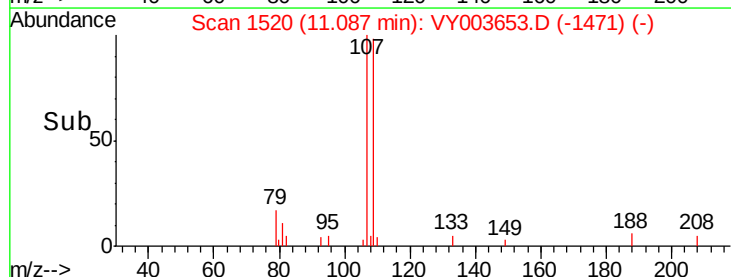
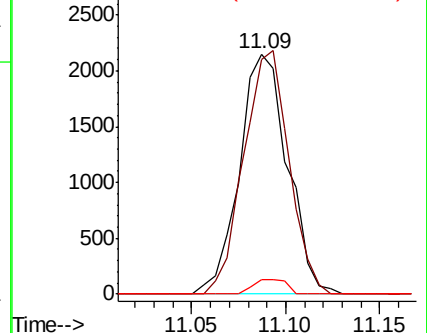
188 5.9 3.8 5.8#

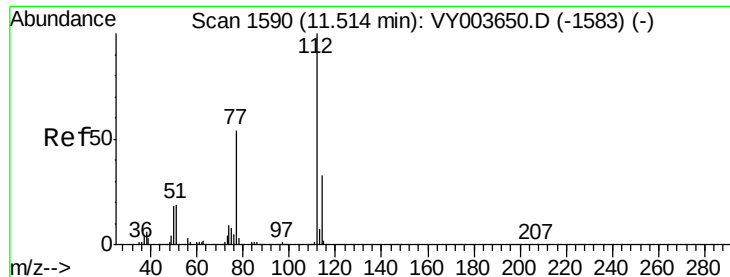


Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V





#51

Chlorobenzene

Concen: 1.604 ug/L

RT: 11.52 min Scan# 1591

Delta R.T. 0.01 min

Lab File: VY003653.D

Acq: 03 Dec 2020 19:03

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-06

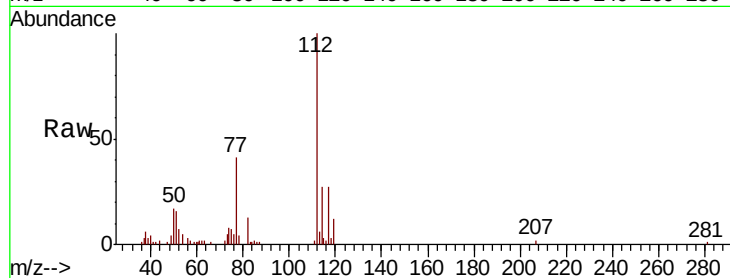
Tot Ion: 112 Resp: 13865

Ion Ratio Lower Upper

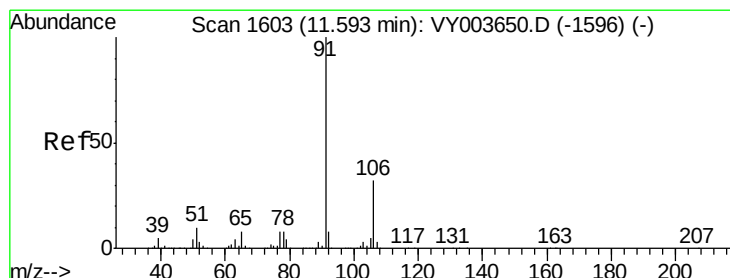
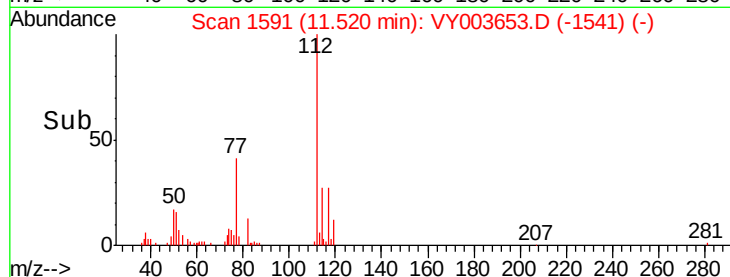
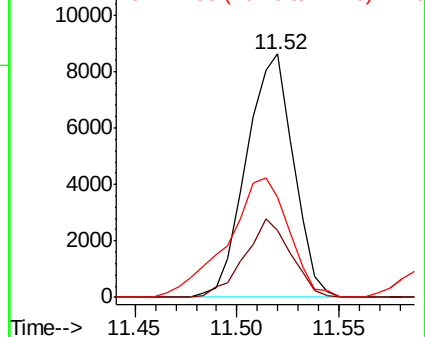
112 100

114 27.5 22.2 41.2

77 41.3 43.8 65.6#



Abundance Ion 112.00 (111.70 to 112.70): V
Ion 114.00 (113.70 to 114.70): V
Ion 77.00 (76.70 to 77.70): V



#52

Ethylbenzene

Concen: 1.466 ug/L

RT: 11.59 min Scan# 1602

Delta R.T. -0.01 min

Lab File: VY003653.D

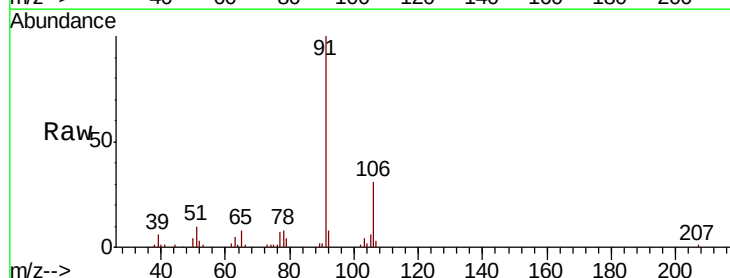
Acq: 03 Dec 2020 19:03

Tgt Ion: 91 Resp: 21050

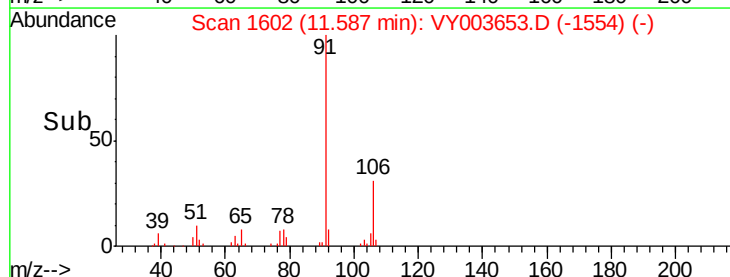
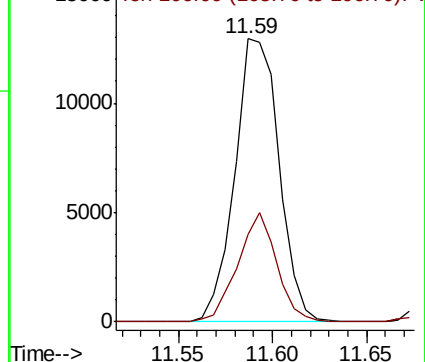
Ion Ratio Lower Upper

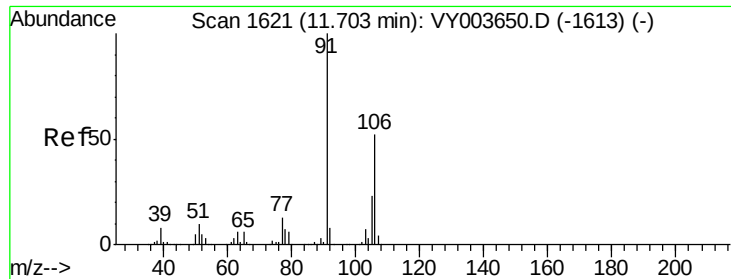
91 100

106 31.1 22.8 42.4



Abundance Ion 91.00 (90.70 to 91.70): VY0
Ion 106.00 (105.70 to 106.70): V





#53

m,p-Xylene

Concen: 1.473 ug/L

RT: 11.70 min Scan# 1621

Delta R.T. 0.00 min

Lab File: VY003653.D

Acq: 03 Dec 2020 19:03

Instrument :

MSVOA_Y

ClientSampleId :

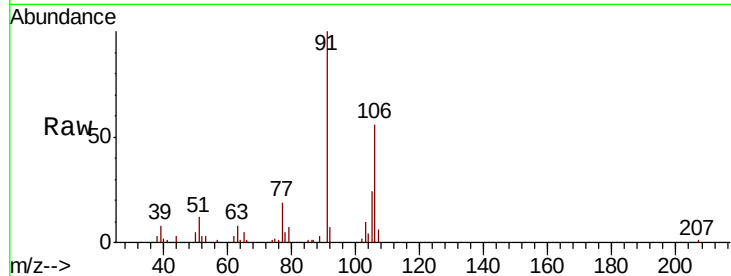
MDL-SOIL-06

Tot Ion:106 Resp: 8269

Ion Ratio Lower Upper

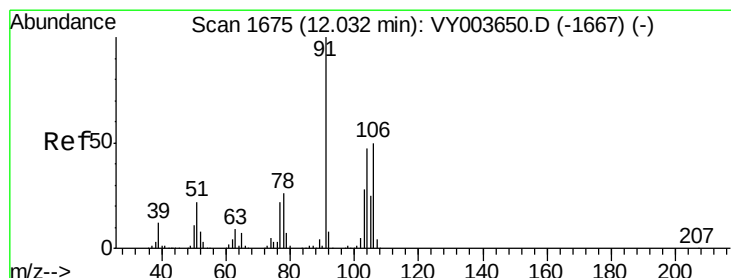
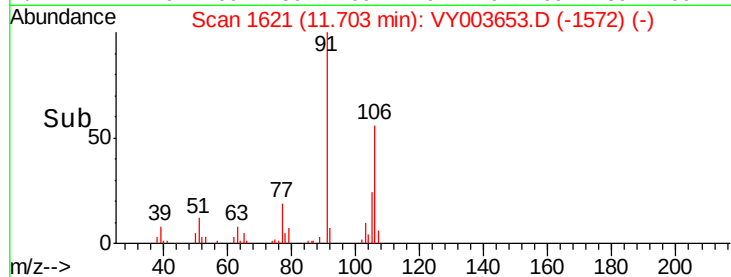
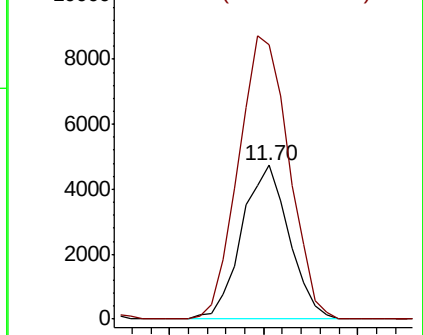
106 100

91 178.5 133.1 247.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VY0



#54

o-Xylene

Concen: 1.369 ug/L

RT: 12.03 min Scan# 1674

Delta R.T. -0.01 min

Lab File: VY003653.D

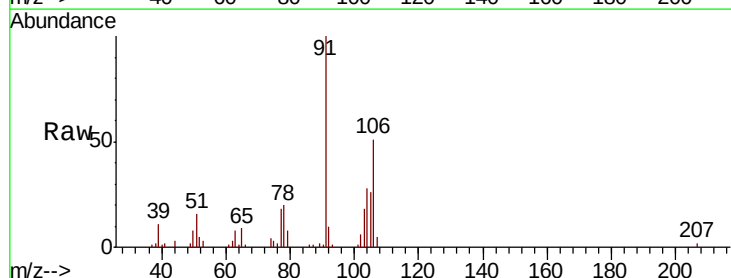
Acq: 03 Dec 2020 19:03

Tgt Ion:106 Resp: 7257

Ion Ratio Lower Upper

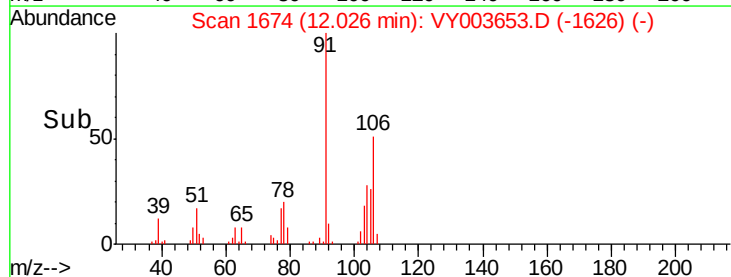
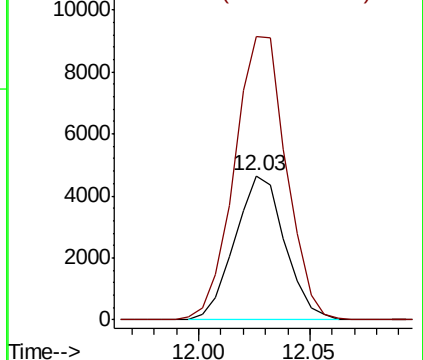
106 100

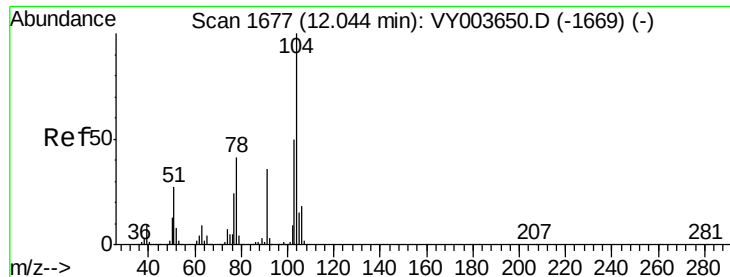
91 196.7 144.1 267.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VY0





#55

Stvrene

Concen: 1.380 ug/L

RT: 12.04 min Scan# 1677

Delta R.T. 0.00 min

Lab File: VY003653.D

Acq: 03 Dec 2020 19:03

Instrument :

MSVOA_Y

ClientSampled :

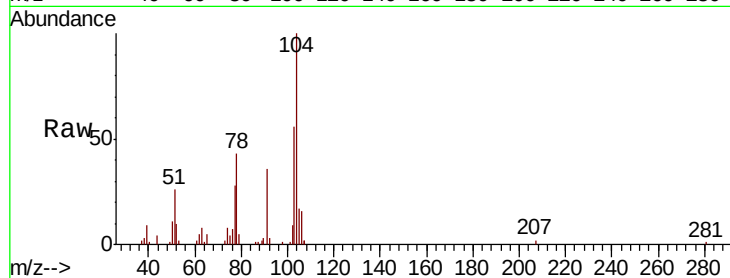
MDL-SOIL-06

Tot Ion:104 Resp: 12519

Ion Ratio Lower Upper

104 100

78 43.0 27.6 51.4



Abundance Ion 104.00 (103.70 to 104.70): VY003653.D (-1677) (-)

Ion 78.00 (77.70 to 78.70): VY003653.D (-1677) (-)

12.04

8000

6000

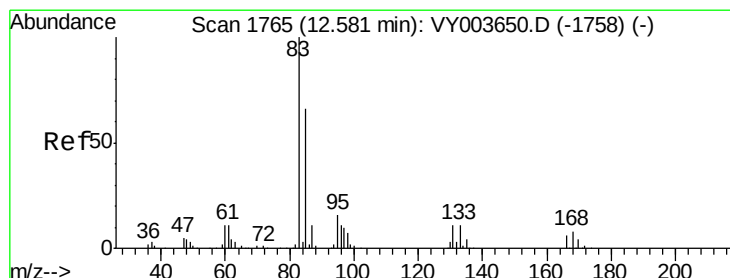
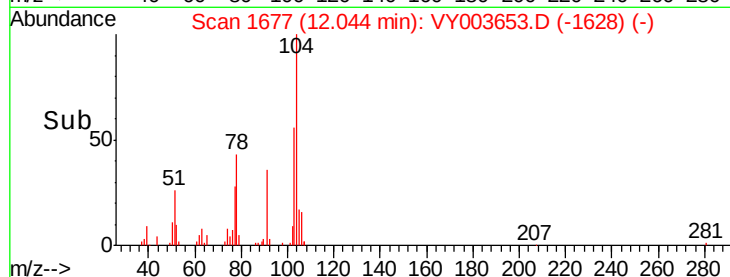
4000

2000

0

12.00 12.05 12.10

Time-->



#57

1,1,2,2-Tetrachloroethane

Concen: 1.388 ug/L

RT: 12.58 min Scan# 1765

Delta R.T. 0.00 min

Lab File: VY003653.D

Acq: 03 Dec 2020 19:03

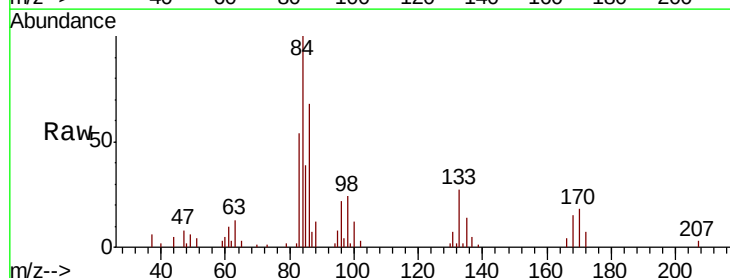
Tgt Ion: 83 Resp: 5008

Ion Ratio Lower Upper

83 100

85 71.9 46.1 85.7

131 13.8 8.1 12.1#



Abundance Ion 83.00 (82.70 to 83.70): VY003653.D (-1765) (-)

Ion 85.00 (84.70 to 85.70): VY003653.D (-1765) (-)

Ion 131.00 (130.70 to 131.70): VY003653.D (-1765) (-)

12.58

4000

3000

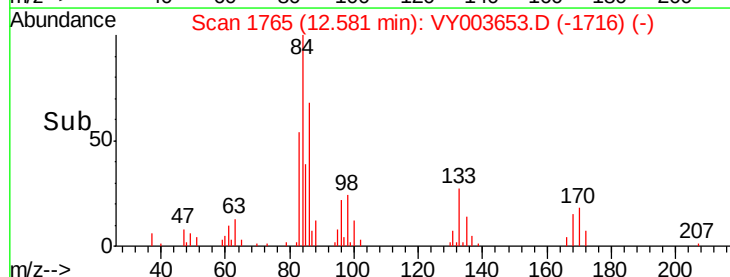
2000

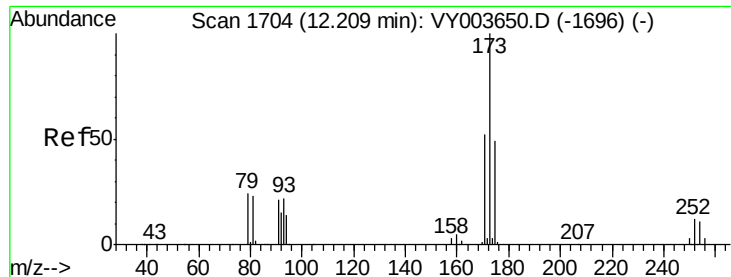
1000

0

12.55 12.60

Time-->





#59

Bromoform

Concen: 1.442 ug/L

RT: 12.21 min Scan# 1704

Delta R.T. 0.00 min

Lab File: VY003653.D

Acq: 03 Dec 2020 19:03

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-06

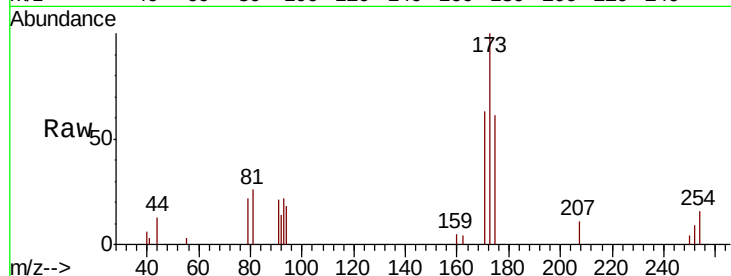
Tot Ion:173 Resp: 3035

Ion Ratio Lower Upper

173 100

175 50.6 38.2 57.4

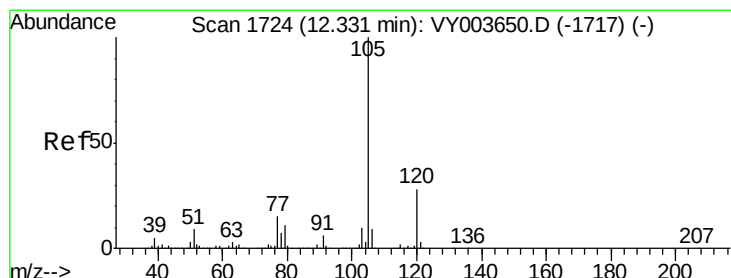
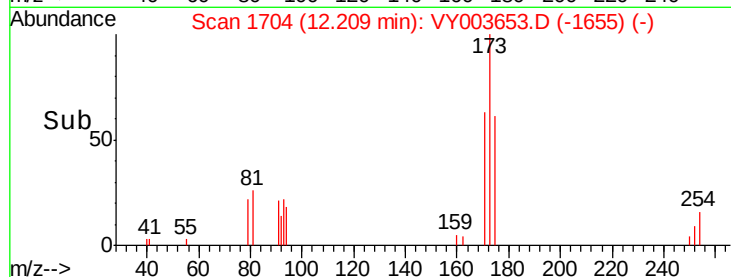
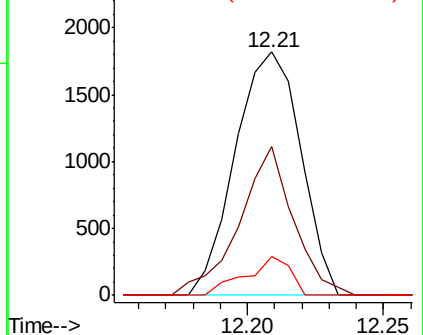
254 10.8 8.0 12.0



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#60

Isopropylbenzene

Concen: 1.422 ug/L

RT: 12.33 min Scan# 1724

Delta R.T. 0.00 min

Lab File: VY003653.D

Acq: 03 Dec 2020 19:03

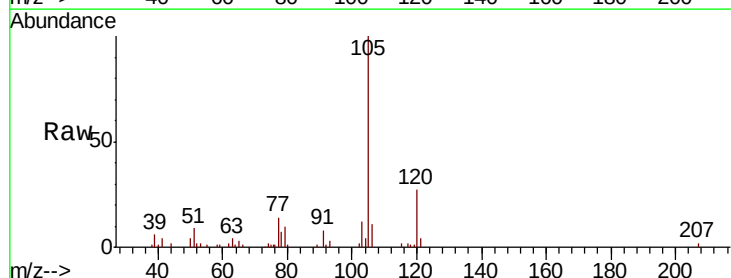
Tgt Ion:105 Resp: 19490

Ion Ratio Lower Upper

105 100

120 27.7 22.0 33.0

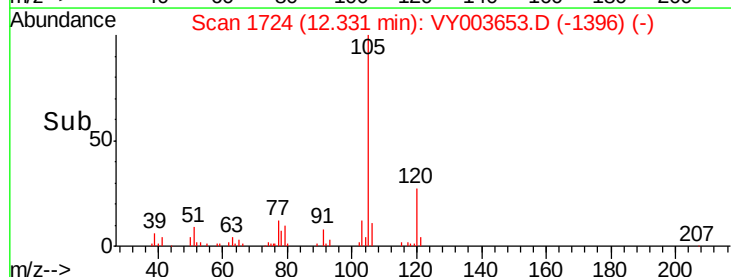
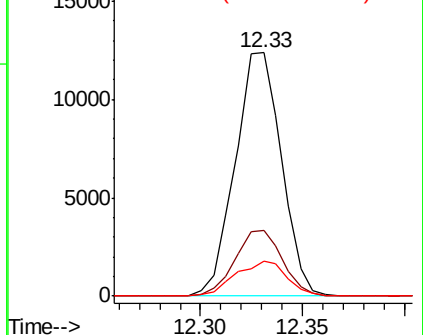
77 15.8 12.1 18.1

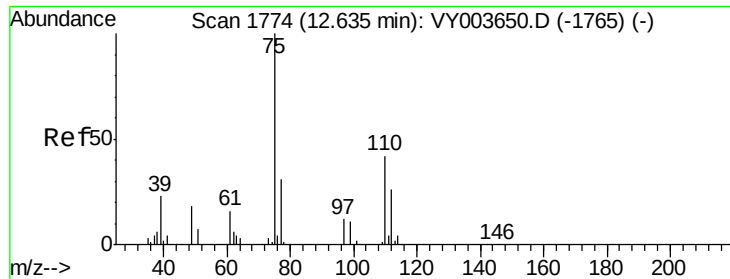


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VY0

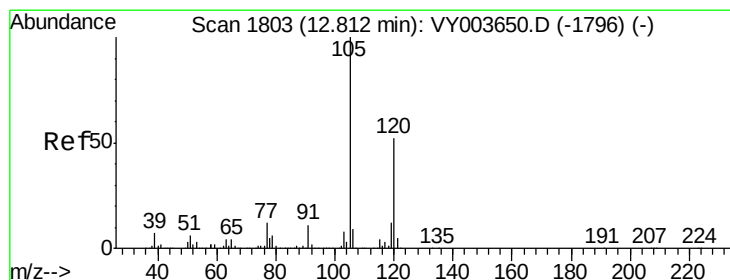
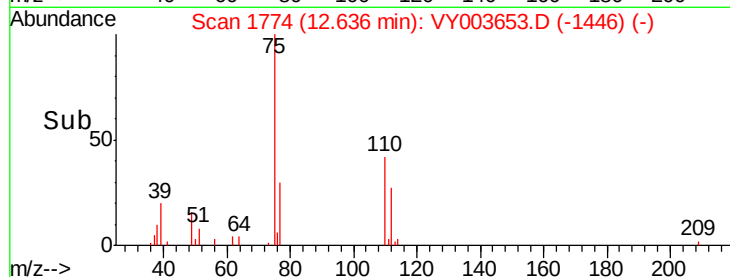
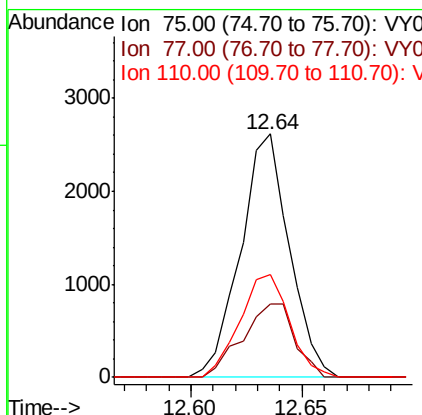
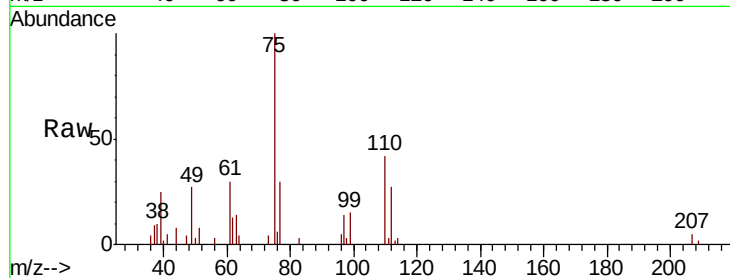




#61
 1,2,3-Trichloropropane
 Concen: 1.558 ug/L
 RT: 12.64 min Scan# 1774
 Delta R.T. 0.00 min
 Lab File: VY003653.D
 Acq: 03 Dec 2020 19:03

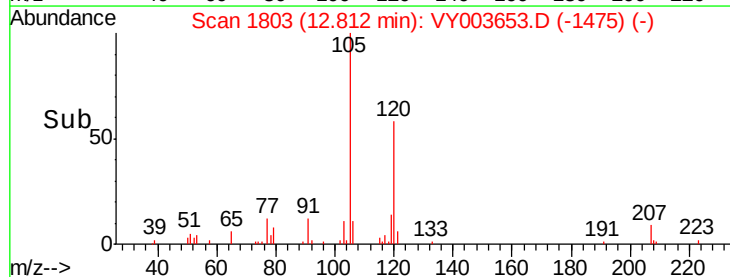
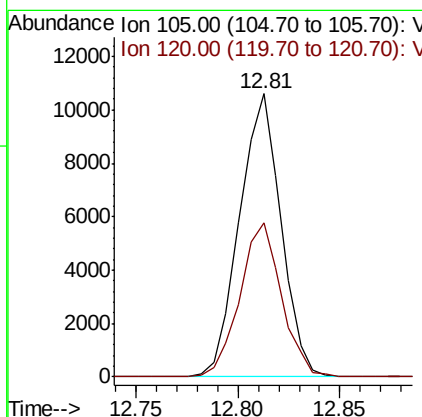
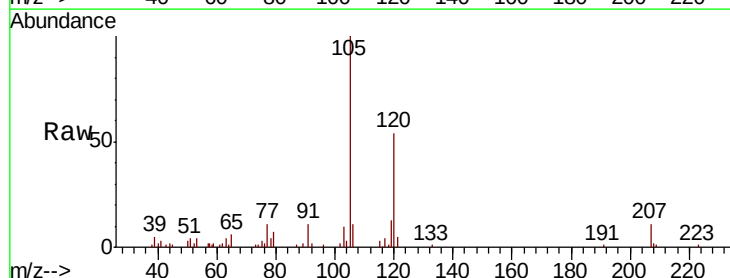
Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-06

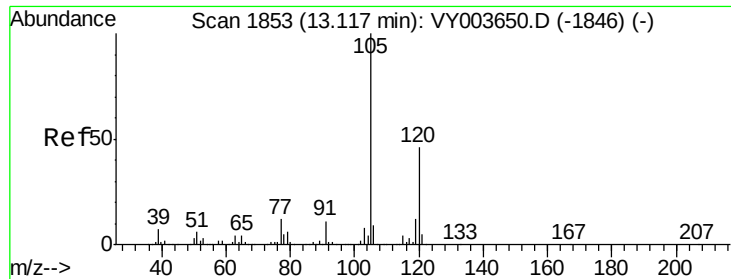
Tot Ion: 75 Resp: 3994
 Ion Ratio Lower Upper
 75 100
 77 32.3 26.3 39.5
 110 42.7 33.0 49.4



#62
 1,3,5-Trimethylbenzene
 Concen: 1.377 ug/L
 RT: 12.81 min Scan# 1803
 Delta R.T. 0.00 min
 Lab File: VY003653.D
 Acq: 03 Dec 2020 19:03

Tgt Ion: 105 Resp: 14966
 Ion Ratio Lower Upper
 105 100
 120 54.5 40.4 60.6

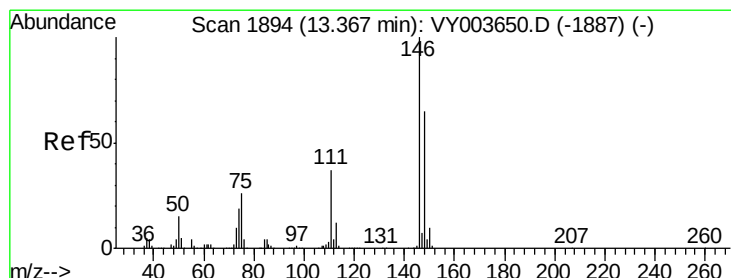
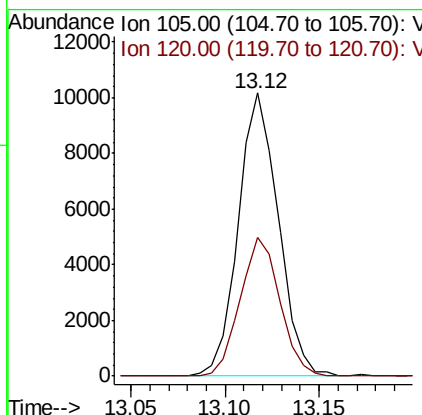
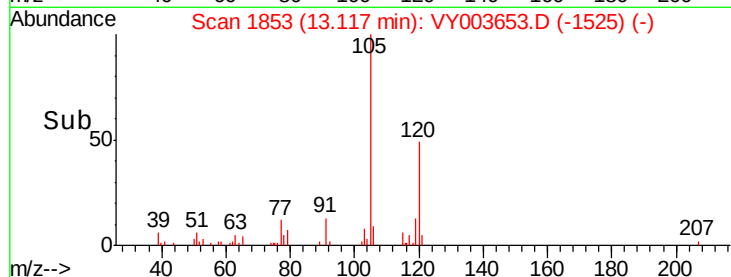
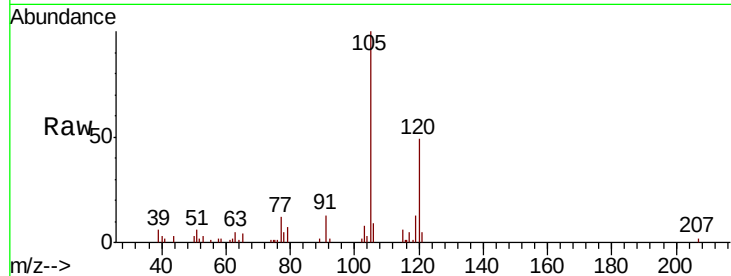




#63
 1,2,4-Trimethylbenzene
 Concen: 1.395 ug/L
 RT: 13.12 min Scan# 1853
 Delta R.T. 0.00 min
 Lab File: VY003653.D
 Acq: 03 Dec 2020 19:03

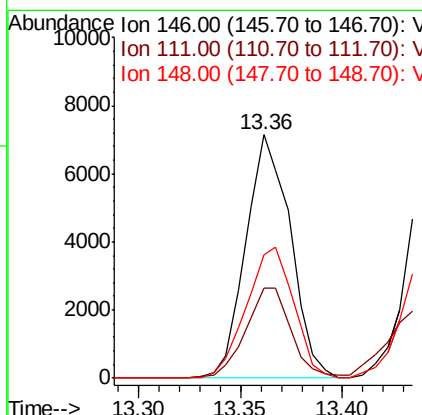
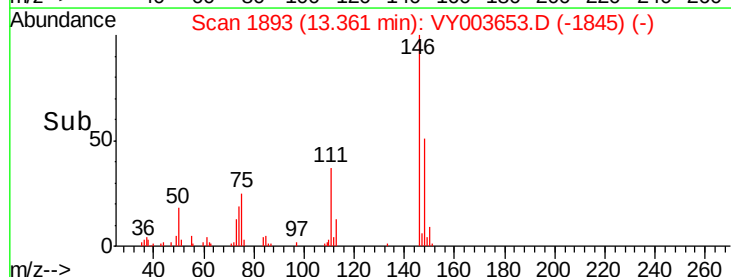
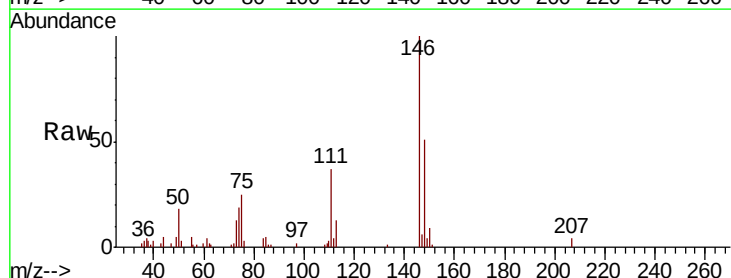
Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-06

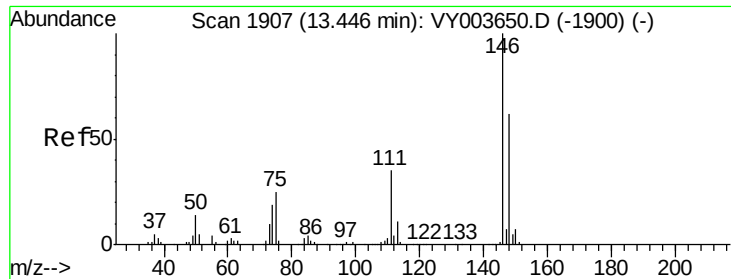
Tot Ion:105 Resp: 14980
 Ion Ratio Lower Upper
 105 100
 120 48.5 38.0 57.0



#64
 1,3-Dichlorobenzene
 Concen: 1.638 ug/L
 RT: 13.36 min Scan# 1893
 Delta R.T. -0.01 min
 Lab File: VY003653.D
 Acq: 03 Dec 2020 19:03

Tgt Ion:146 Resp: 10859
 Ion Ratio Lower Upper
 146 100
 111 37.2 26.6 49.4
 148 50.7 46.3 86.1

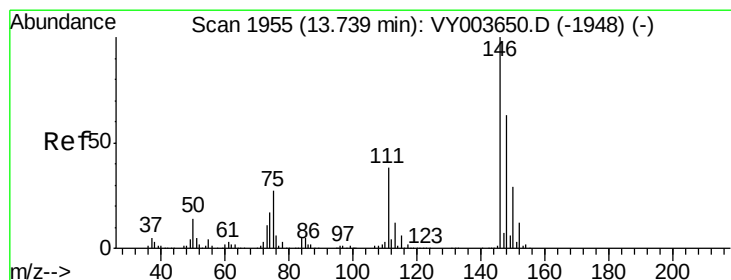
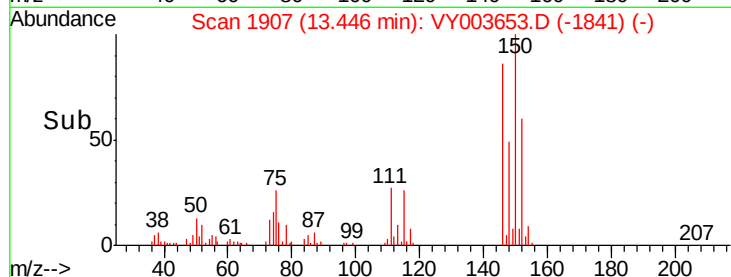
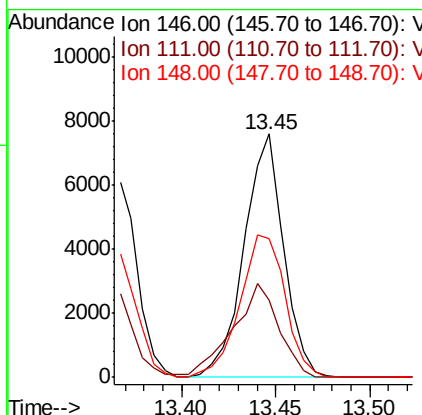
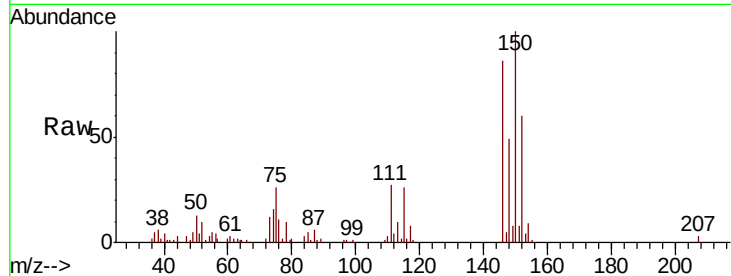




#65
 1,4-Dichlorobenzene
 Concen: 1.646 ug/L
 RT: 13.45 min Scan# 1907
 Delta R.T. 0.00 min
 Lab File: VY003653.D
 Acq: 03 Dec 2020 19:03

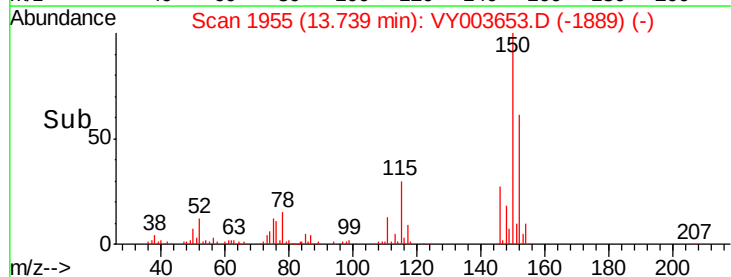
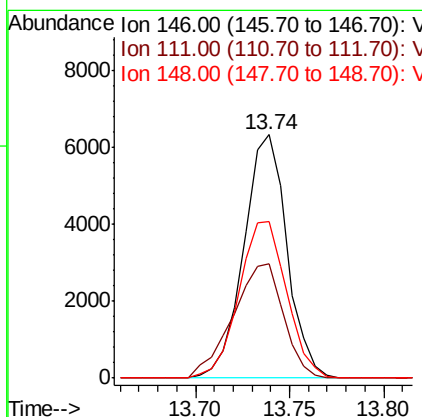
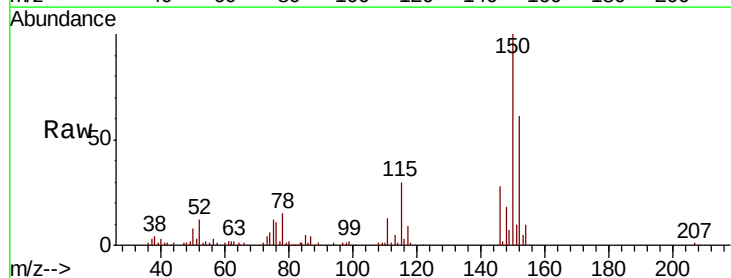
Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-06

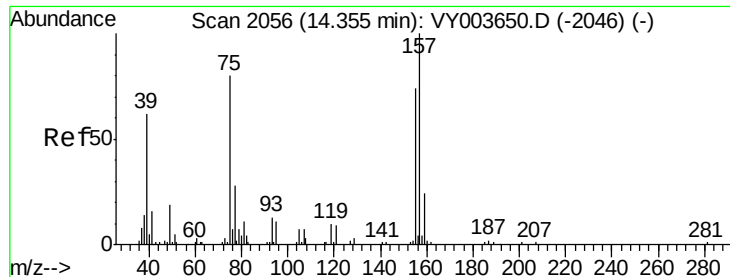
Tot Ion:146 Resp: 11093
 Ion Ratio Lower Upper
 146 100
 111 31.8 24.7 45.9
 148 57.0 43.4 80.6



#67
 1,2-Dichlorobenzene
 Concen: 1.617 ug/L
 RT: 13.74 min Scan# 1955
 Delta R.T. 0.00 min
 Lab File: VY003653.D
 Acq: 03 Dec 2020 19:03

Tgt Ion:146 Resp: 10068
 Ion Ratio Lower Upper
 146 100
 111 46.9 31.0 46.6#
 148 64.5 51.0 76.4





#68

1,2-Dibromo-3-chloropropane

Concen: 2.197 ug/L

RT: 14.50 min Scan# 2079

Delta R.T. 0.14 min

Lab File: VY003653.D

Acq: 03 Dec 2020 19:03

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-06

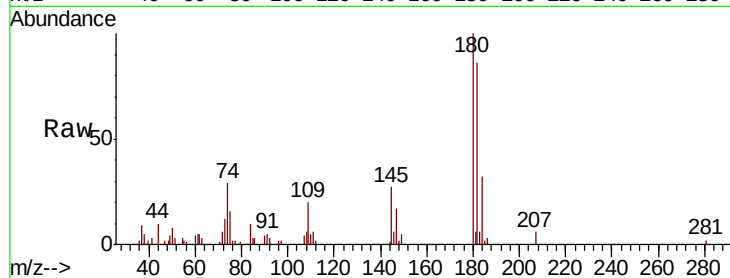
Tot Ion: 75 Resp: 1307

Ion Ratio Lower Upper

75 100

155 0.0 73.4 110.0#

157 0.0 98.1 147.1#

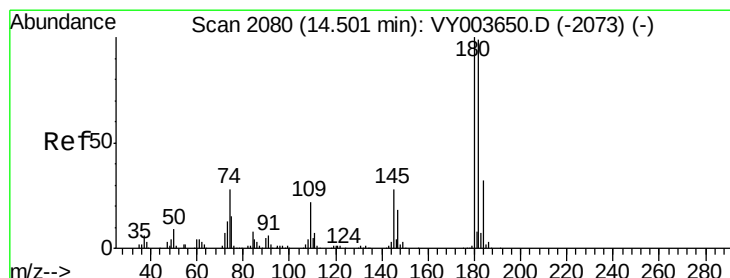
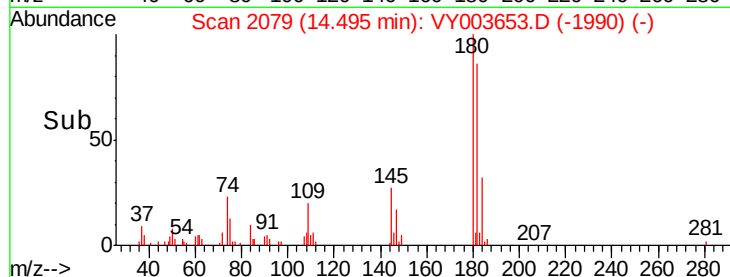
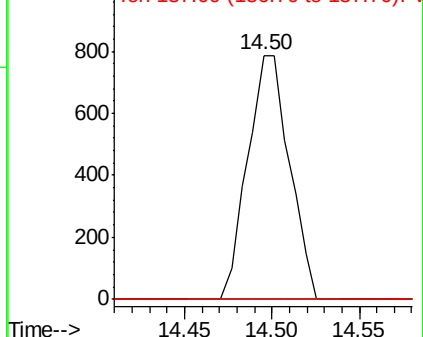


Abundance

Ion 75.00 (74.70 to 75.70): VY0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V



#69

1,3,5-Trichlorobenzene

Concen: 1.756 ug/L

RT: 14.50 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VY003653.D

Acq: 03 Dec 2020 19:03

Tgt Ion: 180 Resp: 8179

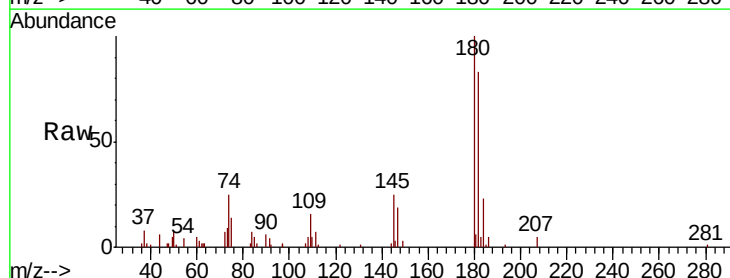
Ion Ratio Lower Upper

180 100

182 88.8 75.4 113.0

184 27.4 24.1 36.1

145 26.2 22.4 33.6



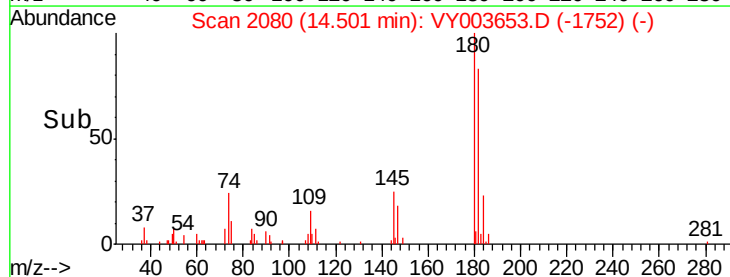
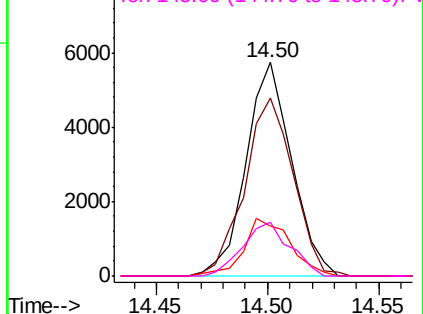
Abundance

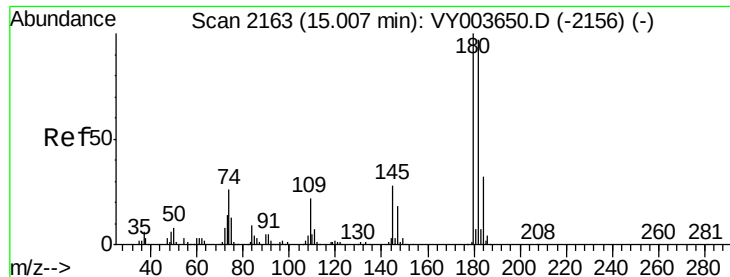
Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V





#70

1,2,4-trichlorobenzene

Concen: 1.599 ug/L

RT: 15.01 min Scan# 2163

Delta R.T. 0.00 min

Lab File: VY003653.D

Acq: 03 Dec 2020 19:03

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-06

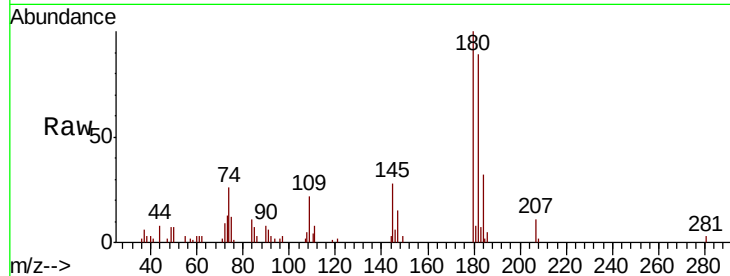
Tot Ion:180 Resp: 6344

Ion Ratio Lower Upper

180 100

182 95.6 76.1 114.1

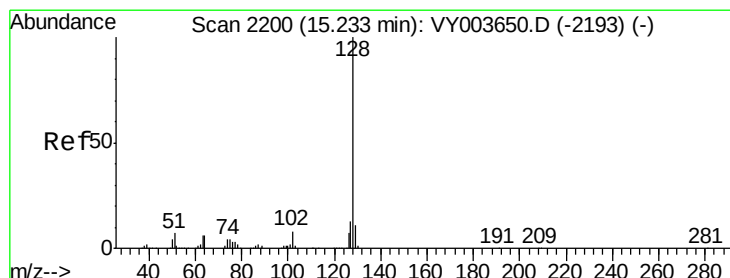
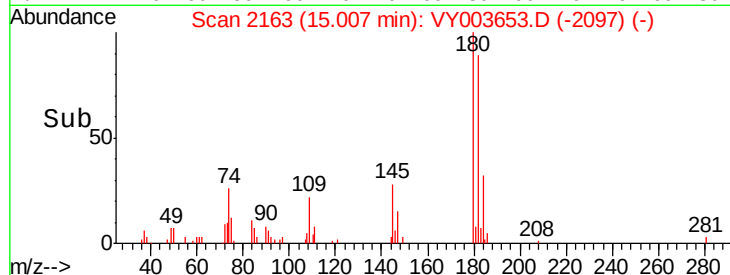
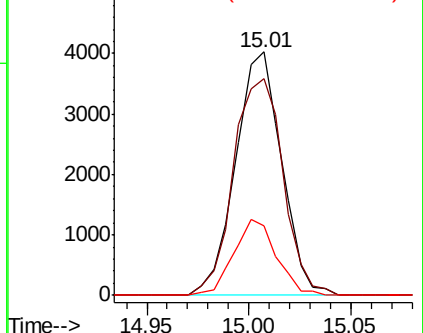
145 28.6 22.8 34.2



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V



#71

Naphthalene

Concen: 1.482 ug/L

RT: 15.23 min Scan# 2200

Delta R.T. 0.00 min

Lab File: VY003653.D

Acq: 03 Dec 2020 19:03

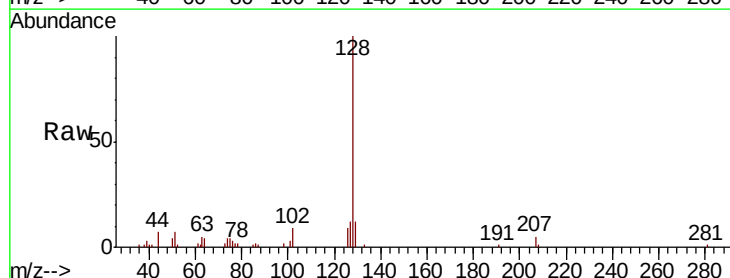
Tgt Ion:128 Resp: 12839

Ion Ratio Lower Upper

128 100

127 13.2 10.4 15.6

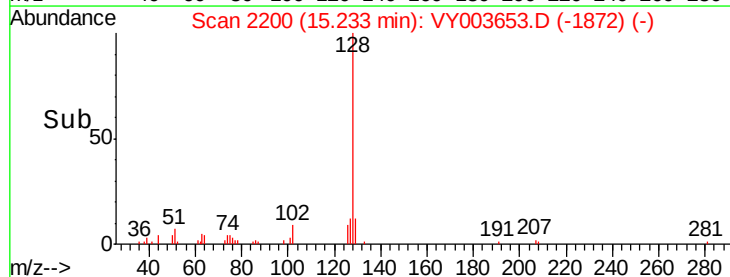
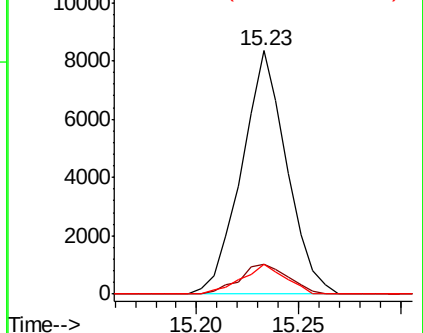
129 11.7 8.5 12.7

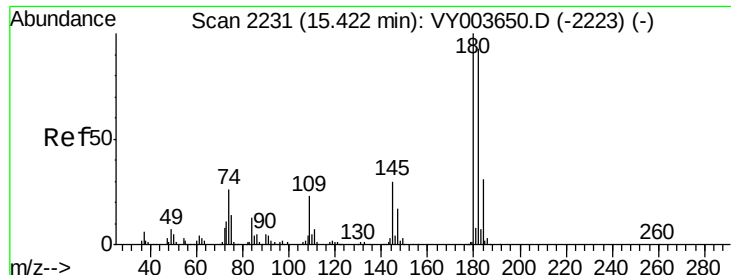


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

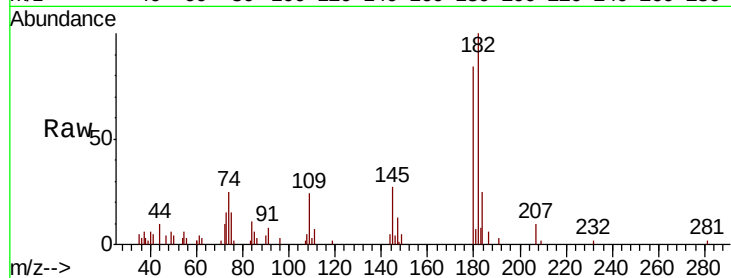




#72
 1,2,3-Trichlorobenzene
 Concen: 1.563 ug/L
 RT: 15.42 min Scan# 2231
 Delta R.T. 0.00 min
 Lab File: VY003653.D
 Acq: 03 Dec 2020 19:03

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-06

Tot Ion	Ratio	Lower	Upper
180	100		
182	99.8	76.2	114.4
145	31.5	23.6	35.4



Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

