

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041824\
 Data File : VY017979.D
 Acq On : 18 Apr 2024 16:26
 Operator : SY/MD
 Sample : P2151-02
 Misc : 5.01g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 SOIL

Quant Time: Apr 19 02:02:41 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y041624S.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 17 06:24:42 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

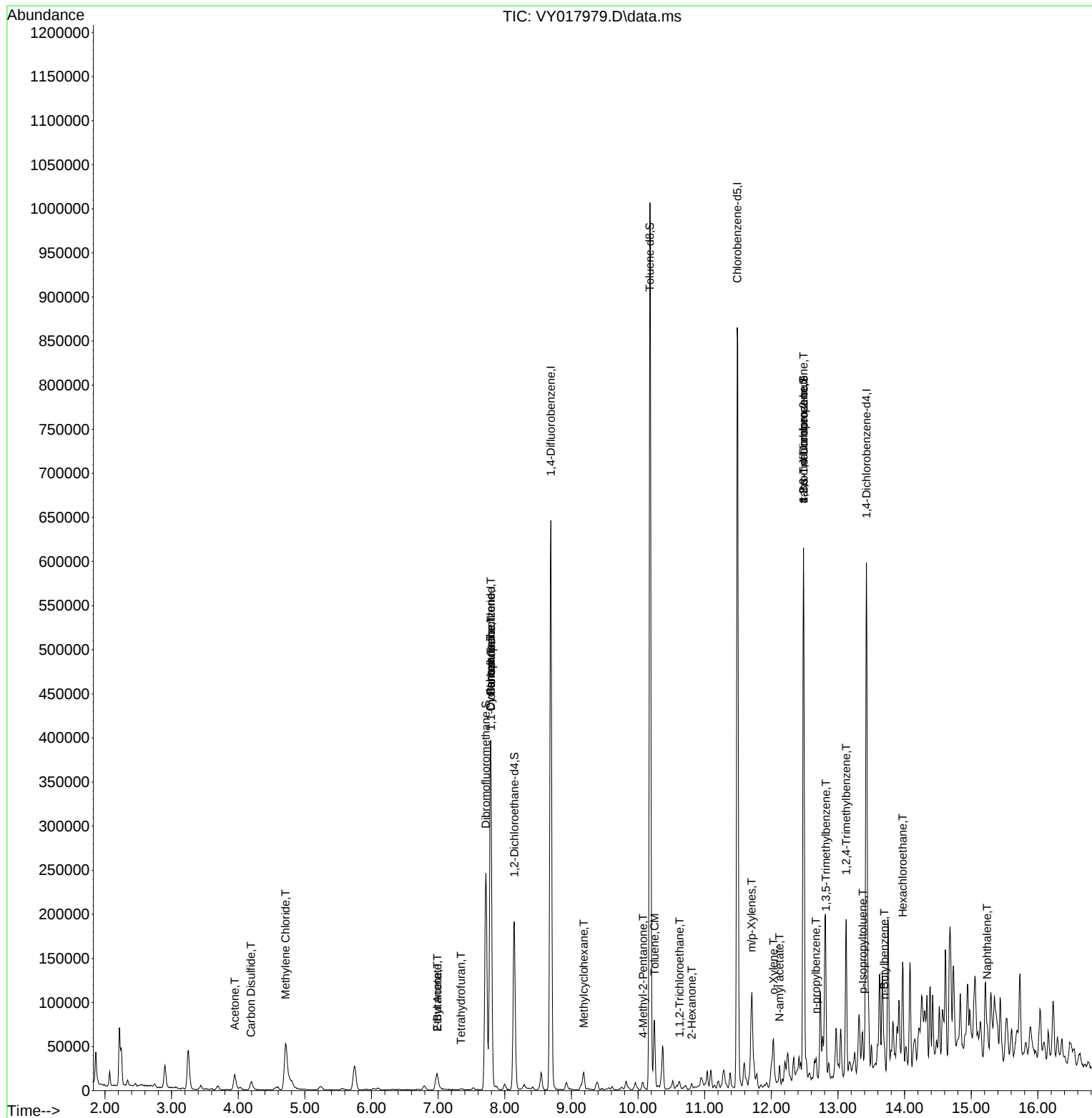
Internal Standards						
1) Pentafluorobenzene	7.789	168	333886	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	590655	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.490	117	514895	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	157831	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.143	65	142234	49.23	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	98.46%		
35) Dibromofluoromethane	7.716	113	179443	49.24	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	98.48%		
50) Toluene-d8	10.179	98	671557	48.57	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	97.14%		
62) 4-Bromofluorobenzene	12.483	95	178084	41.59	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	83.18%		
Target Compounds					Qvalue	
11) Tert butyl alcohol	4.948	59	1835	Below Cal		98
16) Acetone	3.948	43	28431	49.80	ug/l	99
17) Carbon Disulfide	4.192	76	13261	1.24	ug/l #	95
20) Methylene Chloride	4.710	84	43340	11.21	ug/l	93
25) 2-Butanone	6.990	43	10427	12.43	ug/l	94
29) Tetrahydrofuran	7.344	42	950	1.78	ug/l #	85
31) Cyclohexane	7.783	56	9999	1.81	ug/l #	35
36) 1,1-Dichloropropene	7.795	75	21455	4.05	ug/l #	40
37) Ethyl Acetate	6.990	43	10427	4.78	ug/l #	75
38) Carbon Tetrachloride	7.789	117	29054	5.43	ug/l #	17
39) Methylcyclohexane	9.185	83	7534	1.09	ug/l	91
51) 4-Methyl-2-Pentanone	10.075	43	5168	2.40	ug/l	98
52) Toluene	10.246	92	32079	3.15	ug/l	99
55) 1,1,2-Trichloroethane	10.624	97	3424	1.19	ug/l #	22
59) 2-Hexanone	10.807	43	2449	1.67	ug/l #	19
68) m/p-Xylenes	11.703	106	24298	3.33	ug/l	99
69) o-Xylene	12.032	106	12644	1.86	ug/l	99
74) N-amyl acetate	12.124	43	4693	2.02	ug/l #	63
76) 1,2,3-Trichloropropane	12.483	75	86811	58.61	ug/l #	100
78) n-propylbenzene	12.672	91	18862	1.35	ug/l	100
80) 1,3,5-Trimethylbenzene	12.819	105	35762	3.92	ug/l	94
81) trans-1,4-Dichloro-2-b...	12.483	75	86811	120.85	ug/l #	16
84) 1,2,4-Trimethylbenzene	13.123	105	93827	10.33	ug/l	98
86) p-Isopropyltoluene	13.373	119	12837	1.25	ug/l	96
89) n-Butylbenzene	13.696	91	12717	1.31	ug/l #	71
90) Hexachloroethane	13.971	117	4963	2.35	ug/l #	12
95) Naphthalene	15.239	128	15391	3.37	ug/l #	91

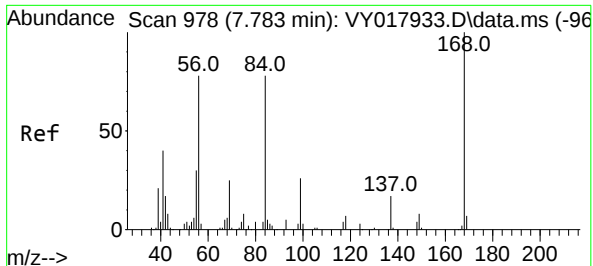
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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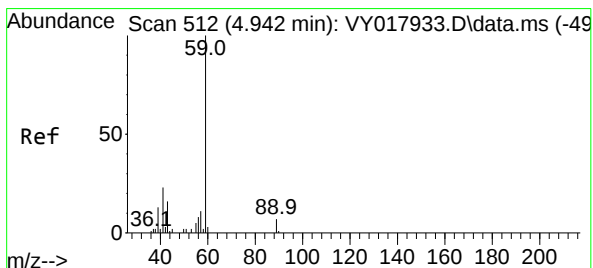
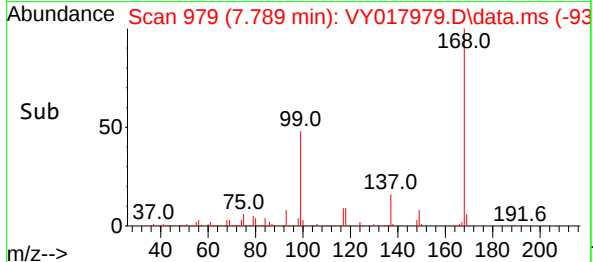
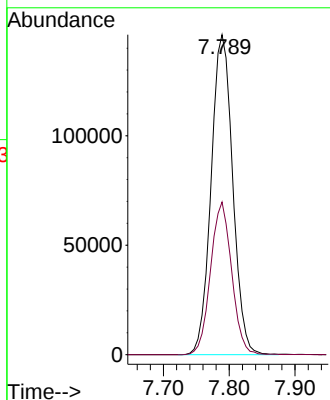
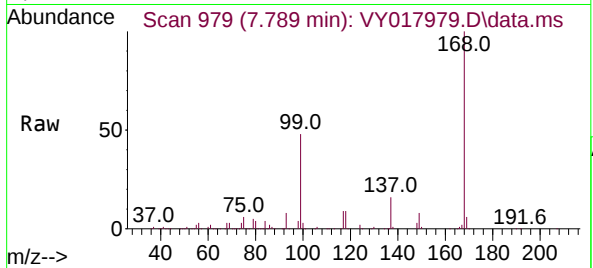




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY017979.D
Acq: 18 Apr 2024 16:26

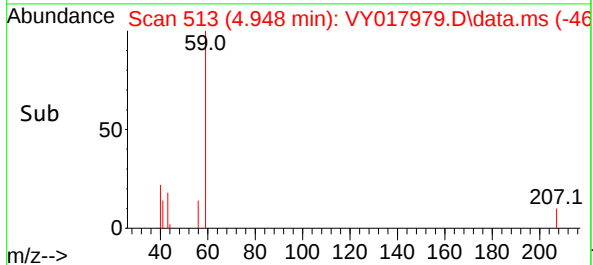
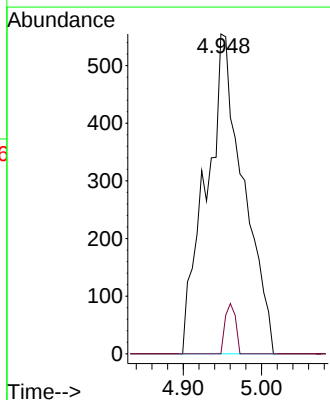
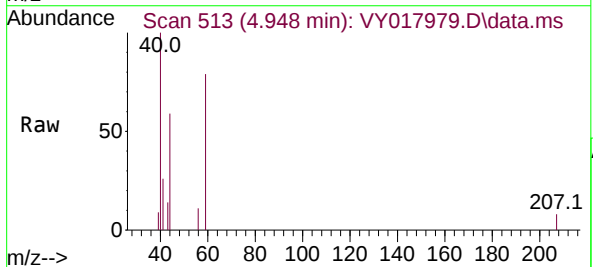
Instrument :
MSVOA_Y
ClientSampleId :
SOIL

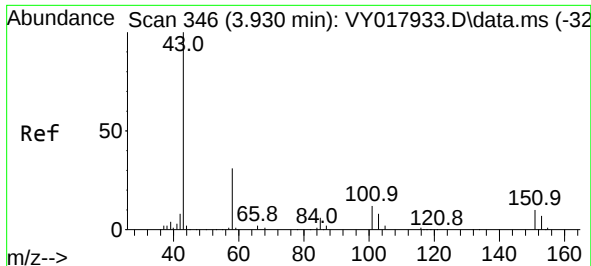
Tgt Ion:168 Resp: 333886
Ion Ratio Lower Upper
168 100
99 47.7 39.1 58.7



#11
Tert butyl alcohol
Concen: Below Cal
RT: 4.948 min Scan# 513
Delta R.T. -0.006 min
Lab File: VY017979.D
Acq: 18 Apr 2024 16:26

Tgt Ion: 59 Resp: 1835
Ion Ratio Lower Upper
59 100
57 4.4 3.0 4.6





#16

Acetone

Concen: 49.80 ug/l

RT: 3.948 min Scan# 34

Delta R.T. 0.000 min

Lab File: VY017979.D

Acq: 18 Apr 2024 16:26

Instrument :

MSVOA_Y

ClientSampleId :

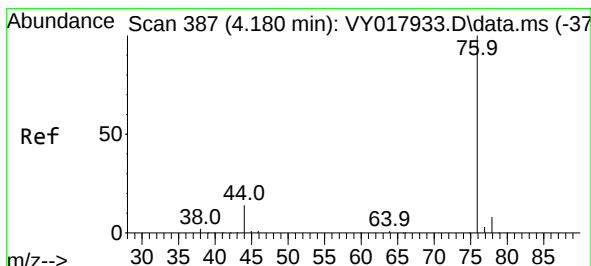
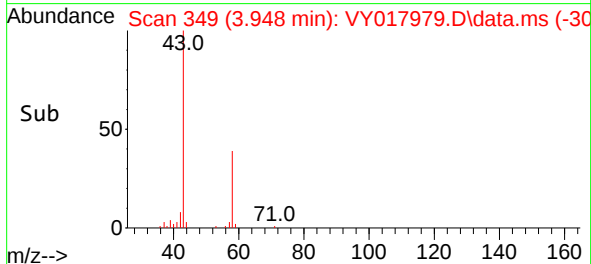
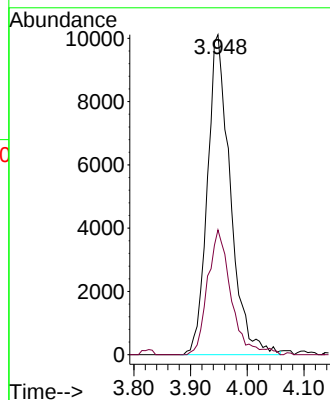
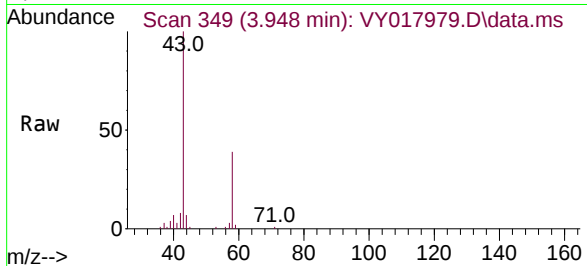
SOIL

Tgt Ion: 43 Resp: 28431

Ion Ratio Lower Upper

43 100

58 39.0 31.7 47.5



#17

Carbon Disulfide

Concen: 1.24 ug/l

RT: 4.192 min Scan# 389

Delta R.T. 0.000 min

Lab File: VY017979.D

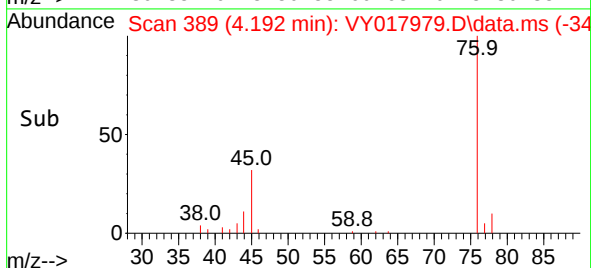
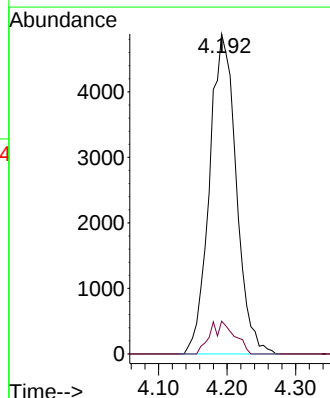
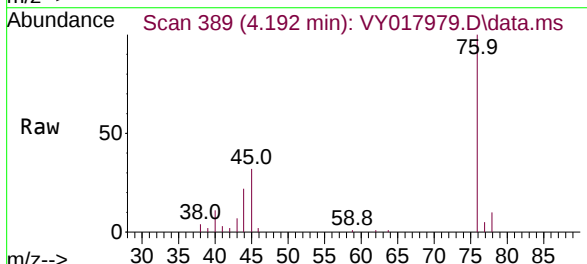
Acq: 18 Apr 2024 16:26

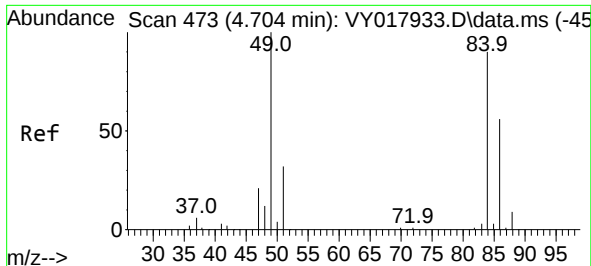
Tgt Ion: 76 Resp: 13261

Ion Ratio Lower Upper

76 100

78 10.3 6.8 10.2#



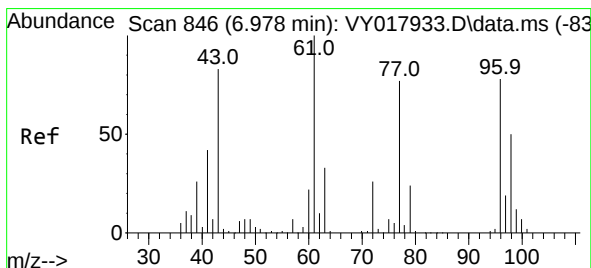
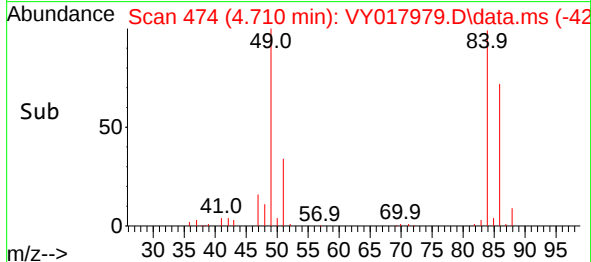
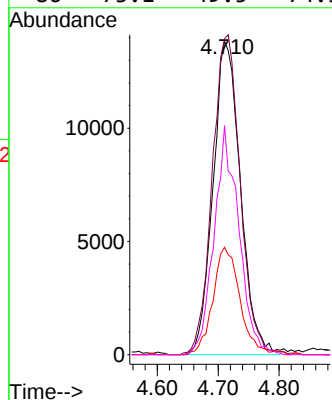
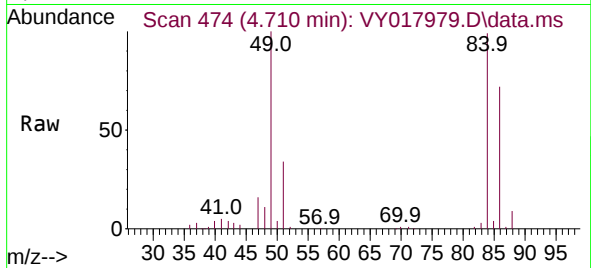


#20
Methylene Chloride
Concen: 11.21 ug/l
RT: 4.710 min Scan# 41
Delta R.T. -0.006 min
Lab File: VY017979.D
Acq: 18 Apr 2024 16:26

Instrument :
MSVOA_Y
ClientSampleId :
SOIL

Tgt Ion: 84 Resp: 43340

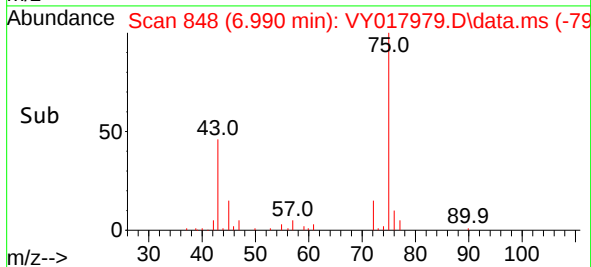
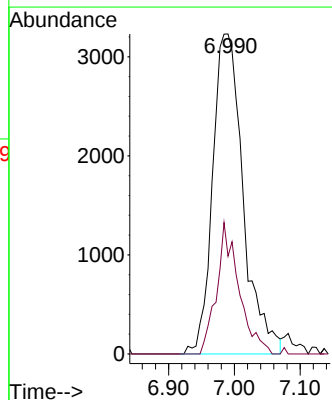
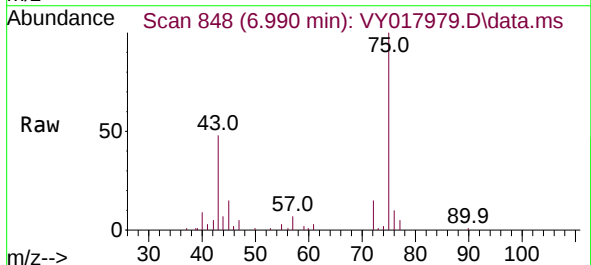
Ion	Ratio	Lower	Upper
84	100		
49	100.9	84.4	126.6
51	34.3	26.0	39.0
86	73.1	49.5	74.3

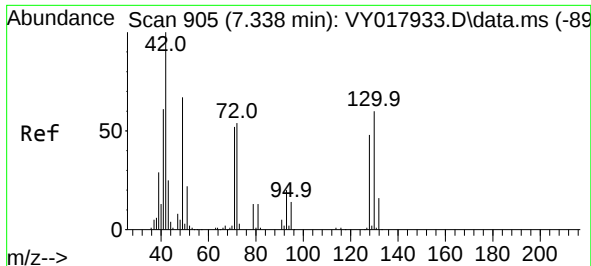


#25
2-Butanone
Concen: 12.43 ug/l
RT: 6.990 min Scan# 848
Delta R.T. 0.006 min
Lab File: VY017979.D
Acq: 18 Apr 2024 16:26

Tgt Ion: 43 Resp: 10427

Ion	Ratio	Lower	Upper
43	100		
72	30.5	27.3	40.9

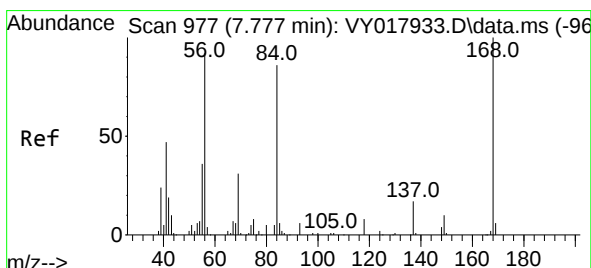
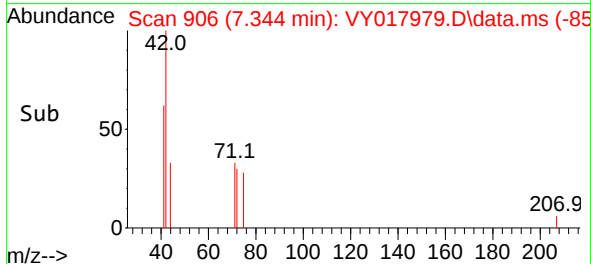
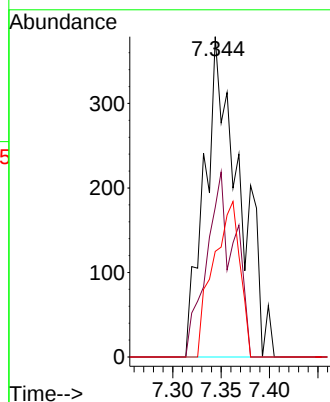
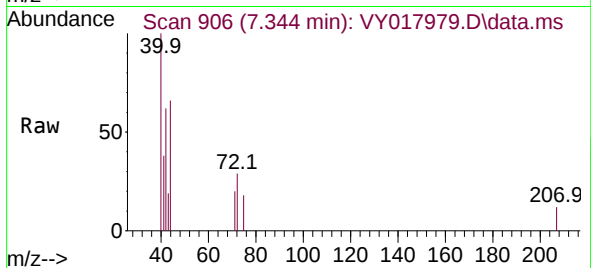




#29
Tetrahydrofuran
Concen: 1.78 ug/l
RT: 7.344 min Scan# 905
Delta R.T. -0.006 min
Lab File: VY017979.D
Acq: 18 Apr 2024 16:26

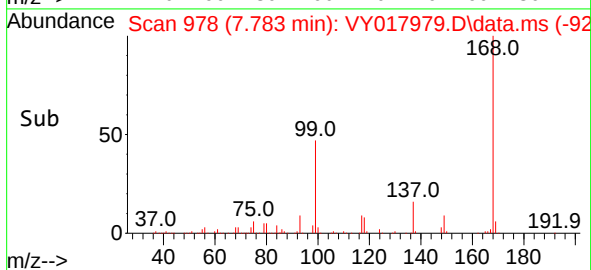
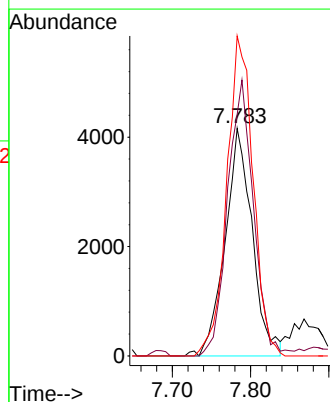
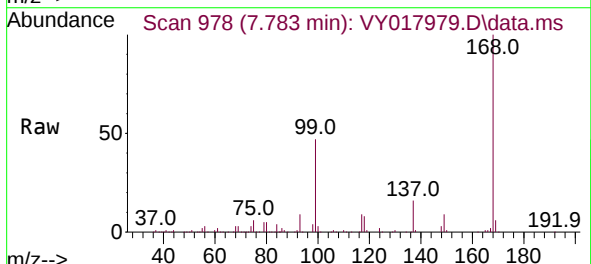
Instrument :
MSVOA_Y
ClientSampleId :
SOIL

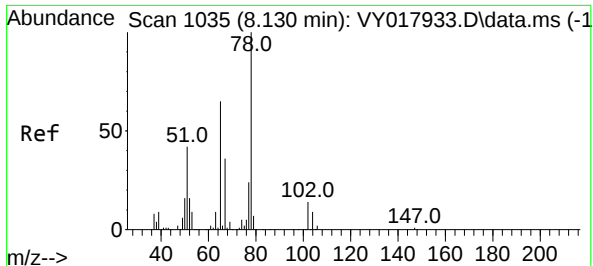
Tgt Ion: 42 Resp: 950
Ion Ratio Lower Upper
42 100
72 46.5 43.0 64.4
71 37.2 40.8 61.2#



#31
Cyclohexane
Concen: 1.81 ug/l
RT: 7.783 min Scan# 978
Delta R.T. 0.000 min
Lab File: VY017979.D
Acq: 18 Apr 2024 16:26

Tgt Ion: 56 Resp: 9999
Ion Ratio Lower Upper
56 100
69 106.1 28.7 43.1#
84 140.6 77.7 116.5#





#33

1,2-Dichloroethane-d4

Concen: 49.23 ug/l

RT: 8.143 min Scan# 1

Delta R.T. 0.000 min

Lab File: VY017979.D

Acq: 18 Apr 2024 16:26

Instrument :

MSVOA_Y

ClientSampleId :

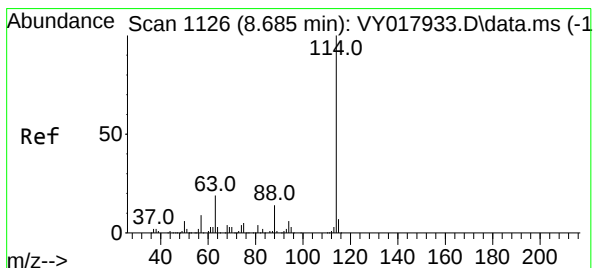
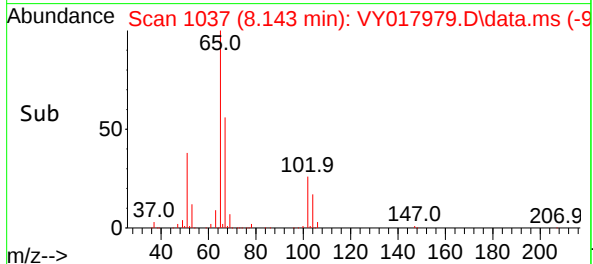
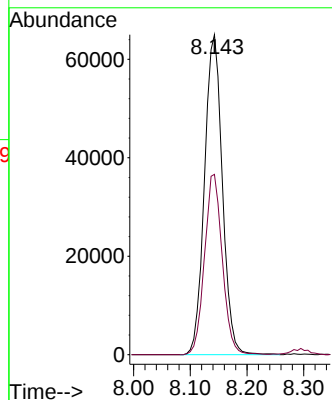
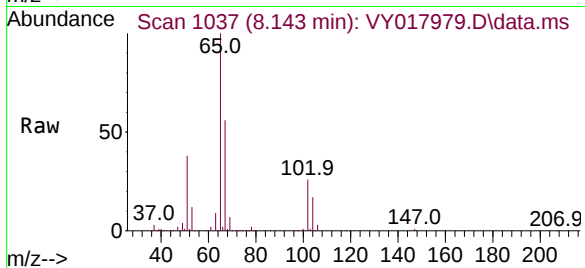
SOIL

Tgt Ion: 65 Resp: 142234

Ion Ratio Lower Upper

65 100

67 56.1 0.0 109.6



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.691 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VY017979.D

Acq: 18 Apr 2024 16:26

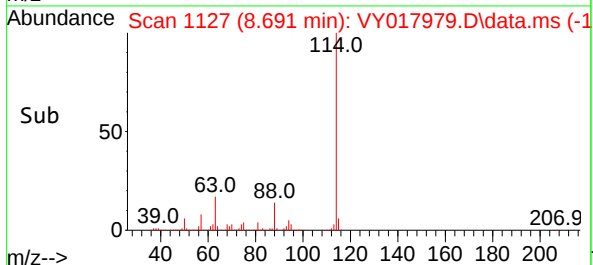
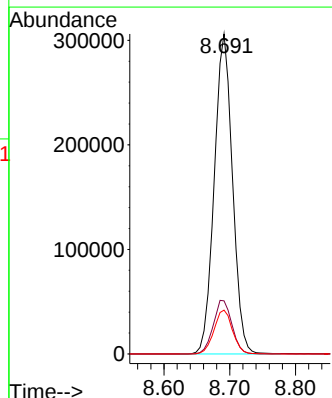
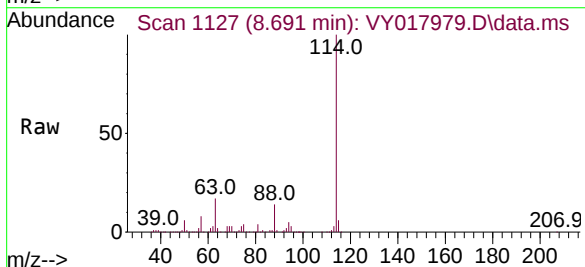
Tgt Ion:114 Resp: 590655

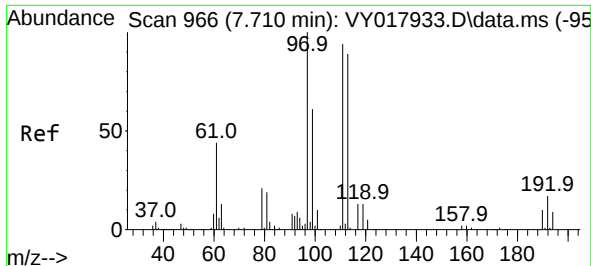
Ion Ratio Lower Upper

114 100

63 16.6 0.0 35.0

88 13.7 0.0 27.2





#35

Dibromofluoromethane

Concen: 49.24 ug/l

RT: 7.716 min Scan# 91

Delta R.T. -0.006 min

Lab File: VY017979.D

Acq: 18 Apr 2024 16:26

Instrument :

MSVOA_Y

ClientSampleId :

SOIL

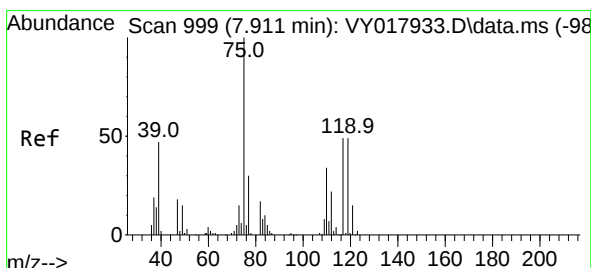
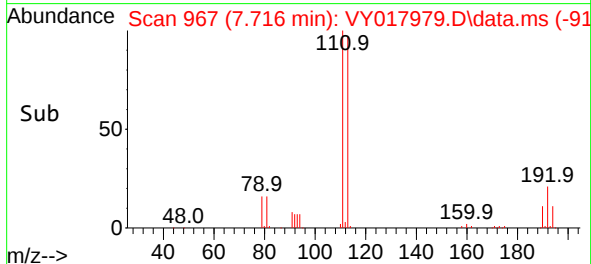
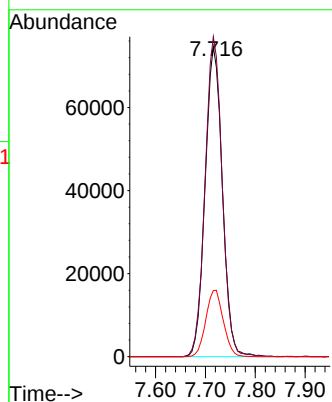
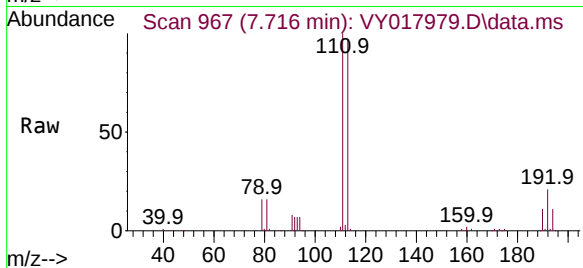
Tgt Ion:113 Resp: 179443

Ion Ratio Lower Upper

113 100

111 102.6 82.2 123.4

192 21.7 15.9 23.9



#36

1,1-Dichloropropene

Concen: 4.05 ug/l

RT: 7.795 min Scan# 980

Delta R.T. -0.122 min

Lab File: VY017979.D

Acq: 18 Apr 2024 16:26

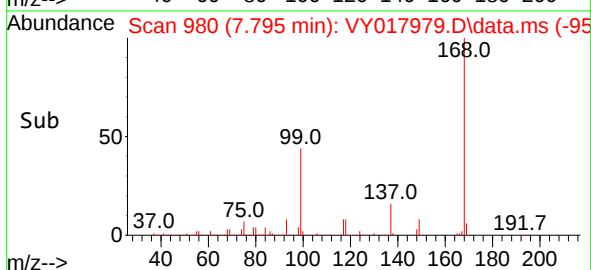
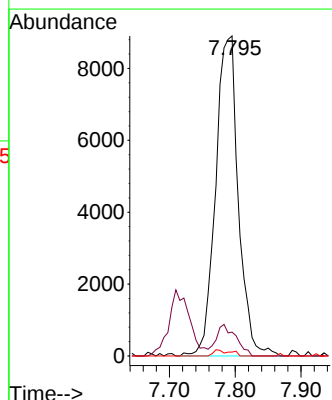
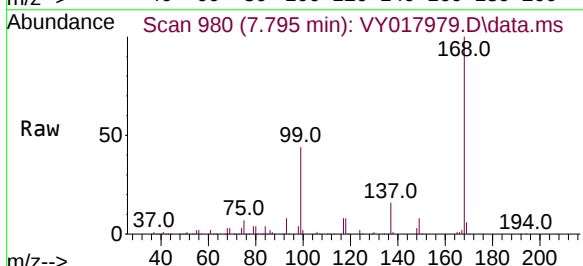
Tgt Ion: 75 Resp: 21455

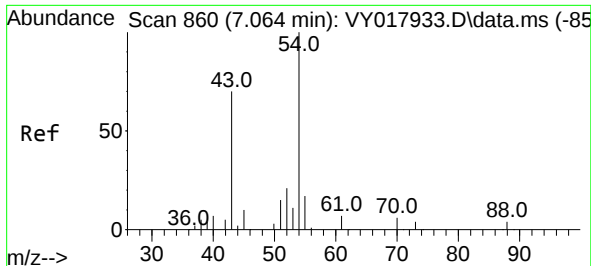
Ion Ratio Lower Upper

75 100

110 0.0 19.0 57.0#

77 0.0 25.3 37.9#





#37

Ethyl Acetate

Concen: 4.78 ug/l

RT: 6.990 min Scan# 84

Delta R.T. -0.085 min

Lab File: VY017979.D

Acq: 18 Apr 2024 16:26

Instrument :

MSVOA_Y

ClientSampleId :

SOIL

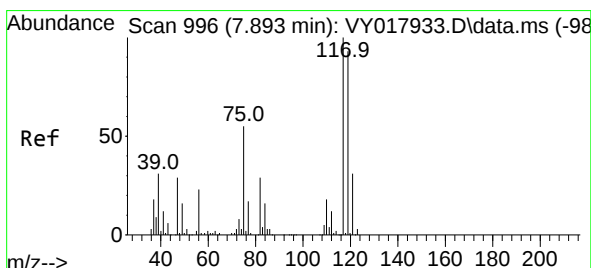
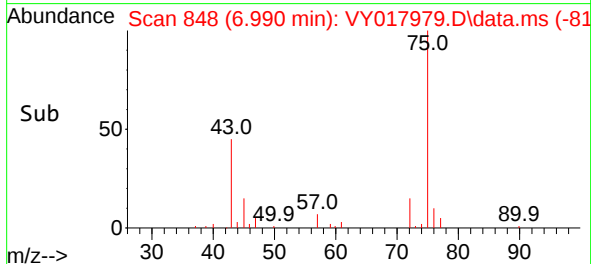
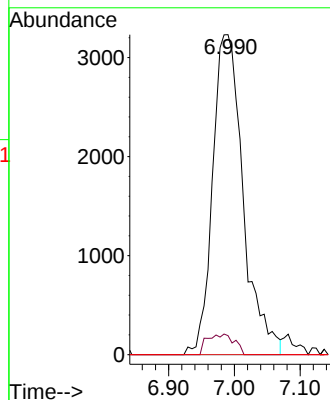
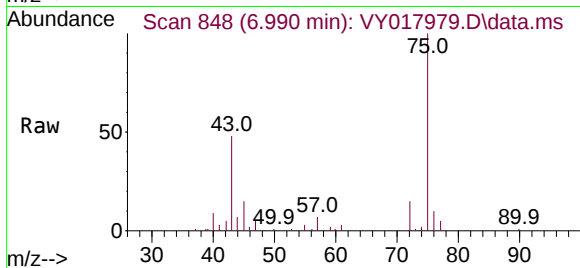
Tgt Ion: 43 Resp: 10427

Ion Ratio Lower Upper

43 100

61 5.7 12.6 19.0#

70 0.0 7.8 11.8#



#38

Carbon Tetrachloride

Concen: 5.43 ug/l

RT: 7.789 min Scan# 979

Delta R.T. -0.116 min

Lab File: VY017979.D

Acq: 18 Apr 2024 16:26

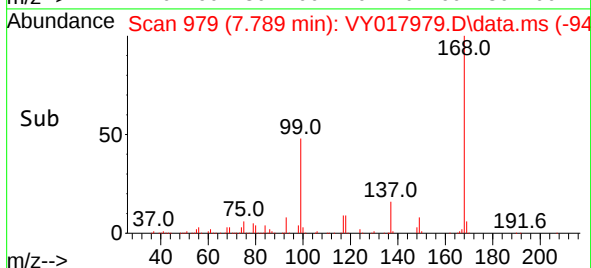
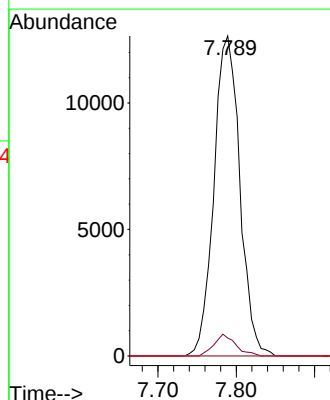
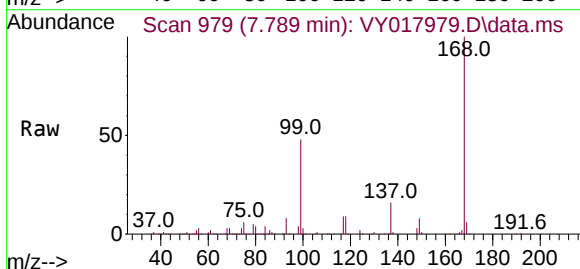
Tgt Ion: 117 Resp: 29054

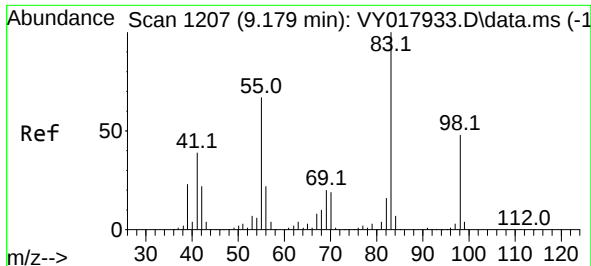
Ion Ratio Lower Upper

117 100

119 5.6 75.8 113.6#

121 0.0 24.0 36.0#





#39

Methylcyclohexane

Concen: 1.09 ug/l

RT: 9.185 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY017979.D

Acq: 18 Apr 2024 16:26

Instrument :

MSVOA_Y

ClientSampleId :

SOIL

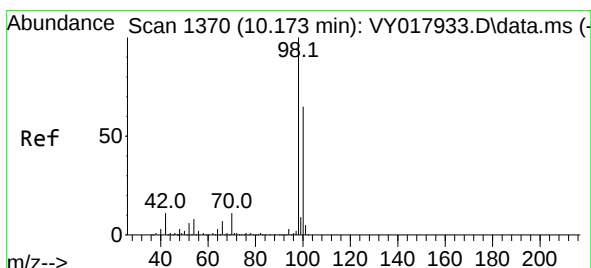
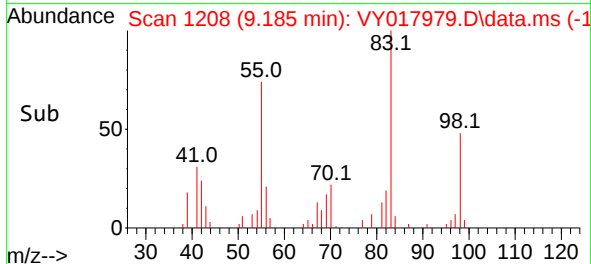
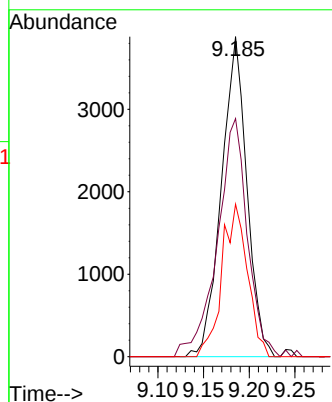
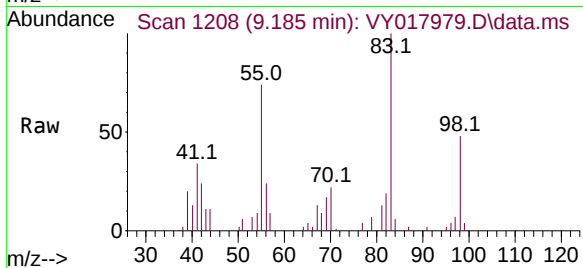
Tgt Ion: 83 Resp: 7534

Ion Ratio Lower Upper

83 100

55 74.4 51.5 77.3

98 47.6 40.5 60.7



#50

Toluene-d8

Concen: 48.57 ug/l

RT: 10.179 min Scan# 1371

Delta R.T. 0.000 min

Lab File: VY017979.D

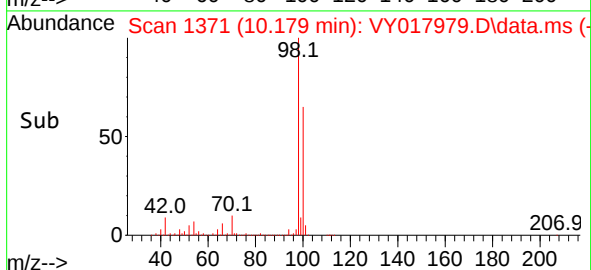
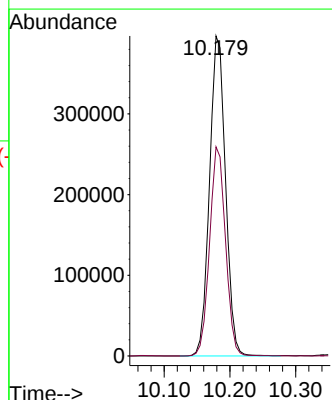
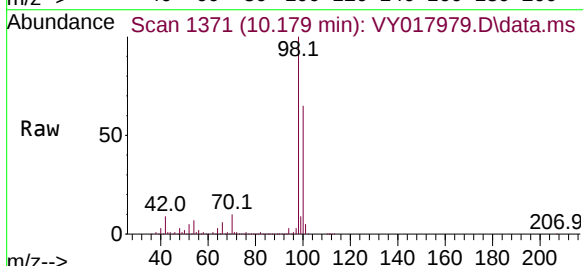
Acq: 18 Apr 2024 16:26

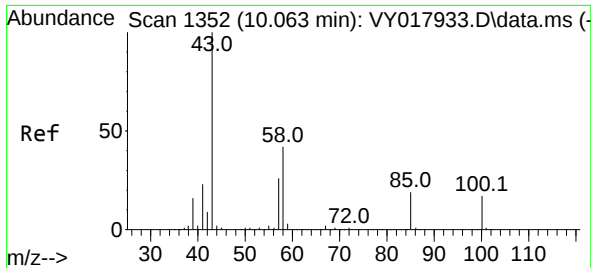
Tgt Ion: 98 Resp: 671557

Ion Ratio Lower Upper

98 100

100 65.0 52.0 78.0

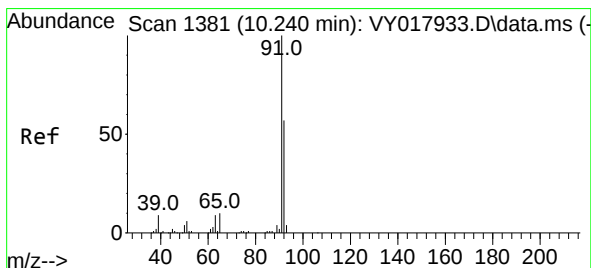
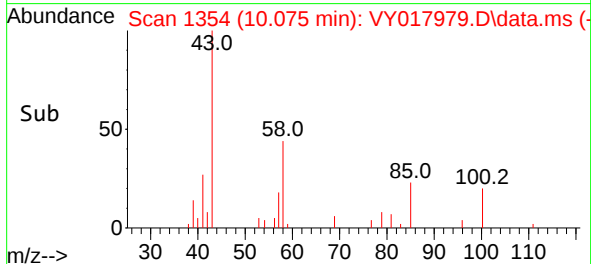
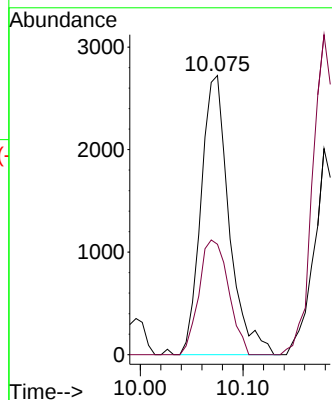
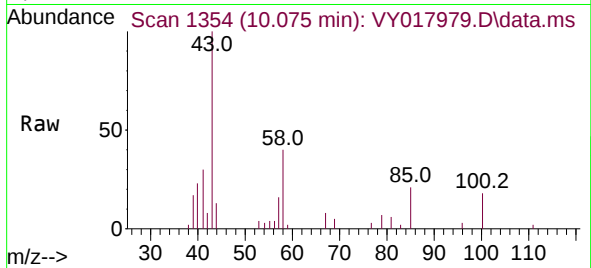




#51
4-Methyl-2-Pentanone
Concen: 2.40 ug/l
RT: 10.075 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY017979.D
Acq: 18 Apr 2024 16:26

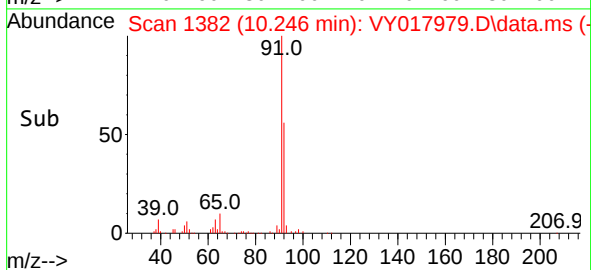
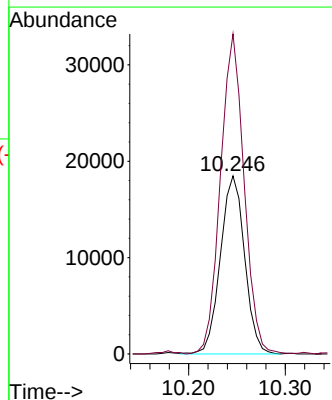
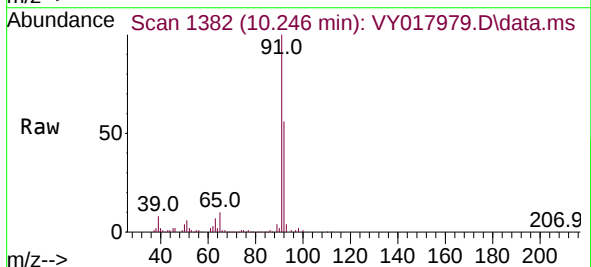
Instrument :
MSVOA_Y
ClientSampleId :
SOIL

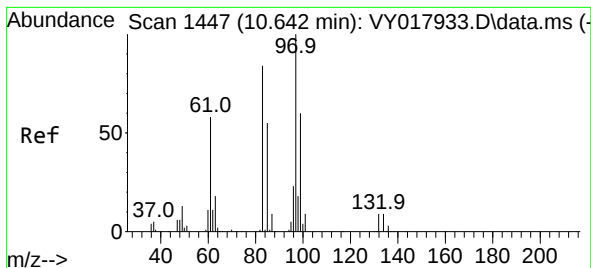
Tgt Ion: 43 Resp: 5168
Ion Ratio Lower Upper
43 100
58 43.3 35.7 53.5



#52
Toluene
Concen: 3.15 ug/l
RT: 10.246 min Scan# 1382
Delta R.T. 0.000 min
Lab File: VY017979.D
Acq: 18 Apr 2024 16:26

Tgt Ion: 92 Resp: 32079
Ion Ratio Lower Upper
92 100
91 175.4 139.0 208.6





#55

1,1,2-Trichloroethane

Concen: 1.19 ug/l

RT: 10.624 min Scan# 1444

Delta R.T. -0.018 min

Lab File: VY017979.D

Acq: 18 Apr 2024 16:26

Instrument :

MSVOA_Y

ClientSampleId :

SOIL

Tgt Ion: 97 Resp: 3424

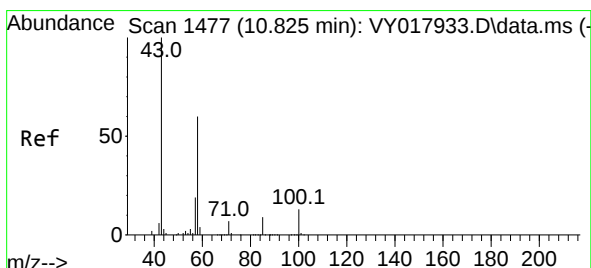
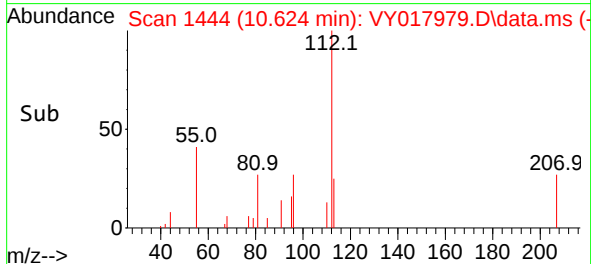
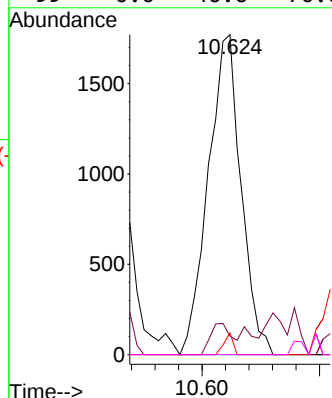
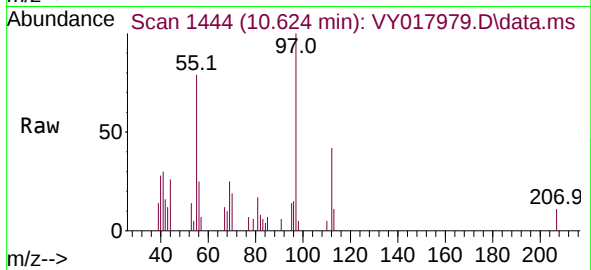
Ion Ratio Lower Upper

97 100

83 5.8 67.5 101.3#

85 6.8 42.9 64.3#

99 0.0 46.6 70.0#



#59

2-Hexanone

Concen: 1.67 ug/l

RT: 10.807 min Scan# 1474

Delta R.T. -0.024 min

Lab File: VY017979.D

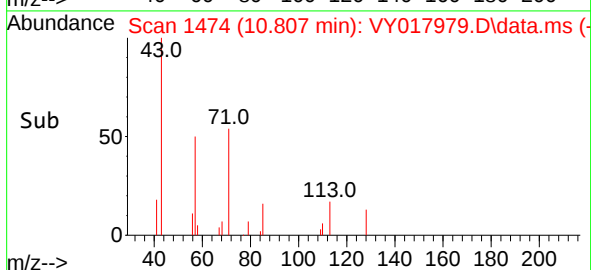
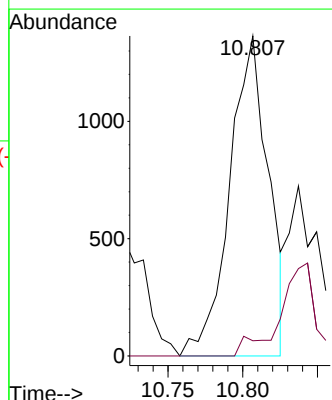
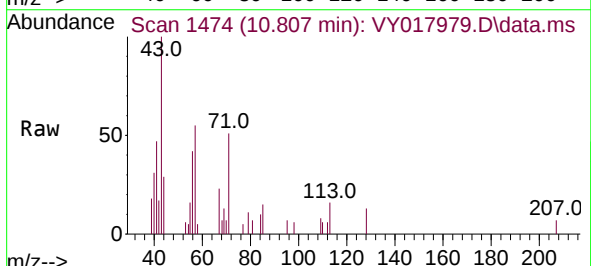
Acq: 18 Apr 2024 16:26

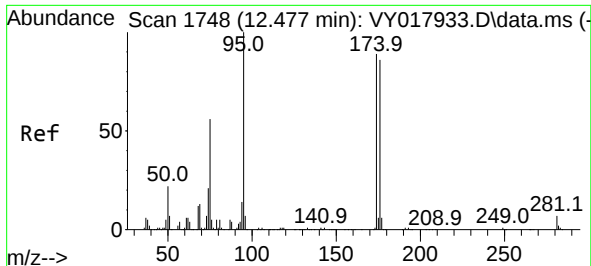
Tgt Ion: 43 Resp: 2449

Ion Ratio Lower Upper

43 100

58 0.0 31.4 94.0#

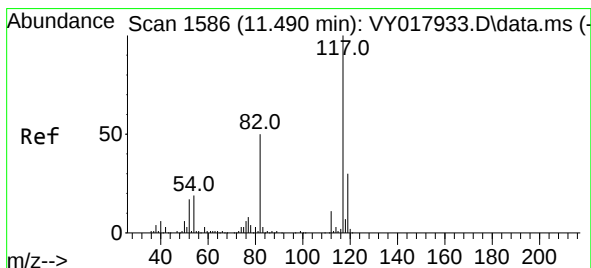
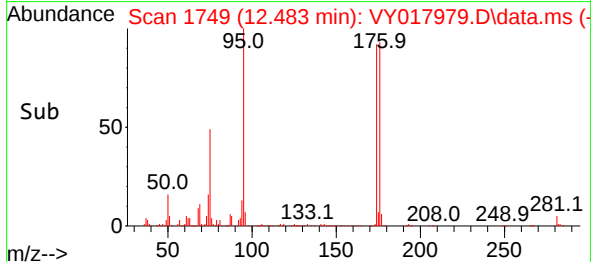
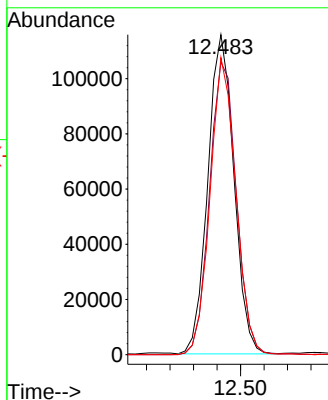
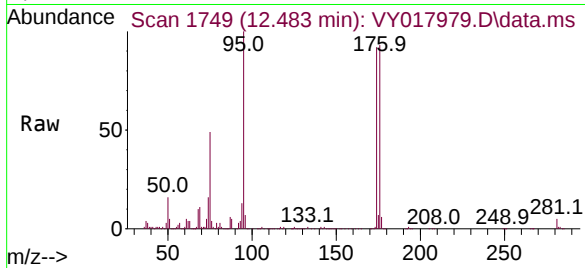




#62
4-Bromofluorobenzene
Concen: 41.59 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VY017979.D
Acq: 18 Apr 2024 16:26

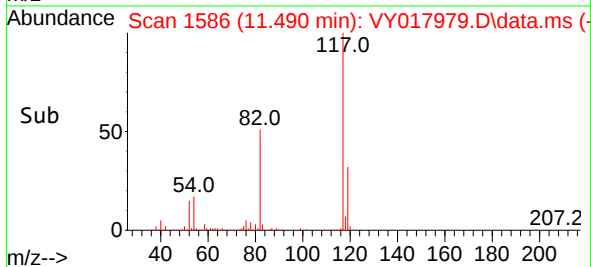
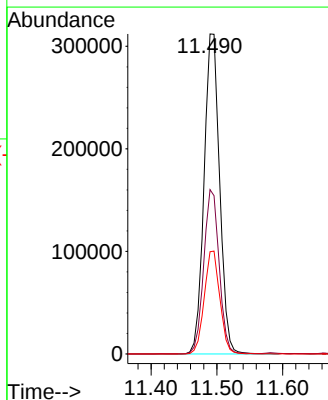
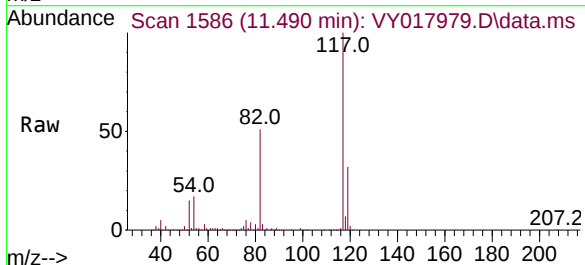
Instrument :
MSVOA_Y
ClientSampleId :
SOIL

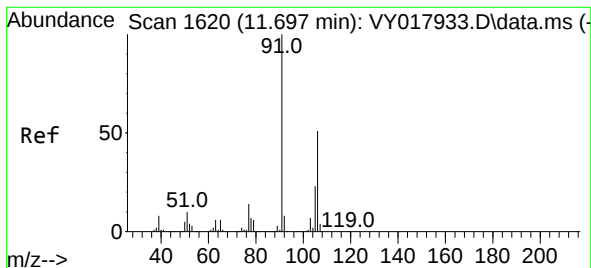
Tgt Ion: 95 Resp: 178084
Ion Ratio Lower Upper
95 100
174 94.4 0.0 175.6
176 91.8 0.0 171.4



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.490 min Scan# 1586
Delta R.T. 0.000 min
Lab File: VY017979.D
Acq: 18 Apr 2024 16:26

Tgt Ion: 117 Resp: 514895
Ion Ratio Lower Upper
117 100
82 51.3 42.4 63.6
119 31.9 25.9 38.9

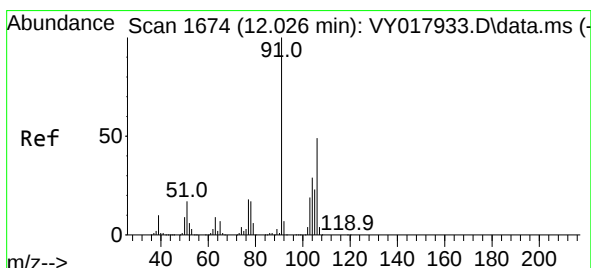
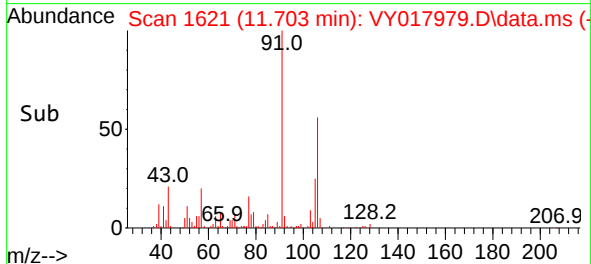
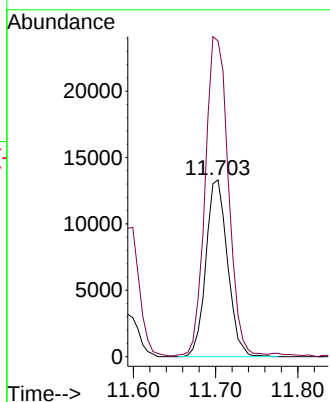
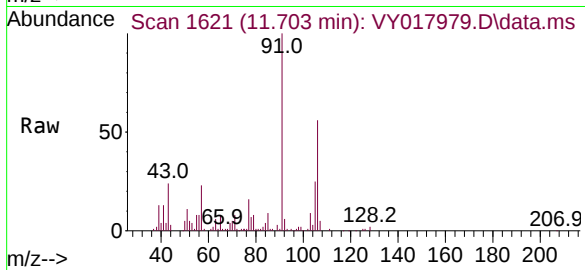




#68
m/p-Xylenes
Concen: 3.33 ug/l
RT: 11.703 min Scan# 1621
Delta R.T. 0.000 min
Lab File: VY017979.D
Acq: 18 Apr 2024 16:26

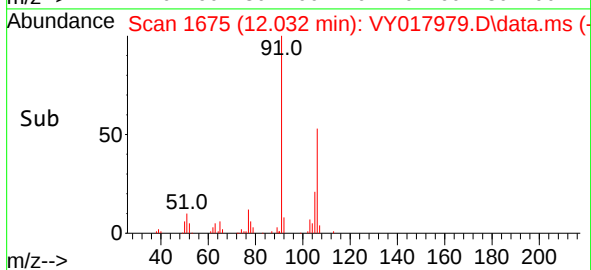
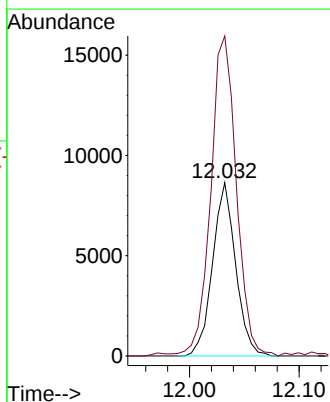
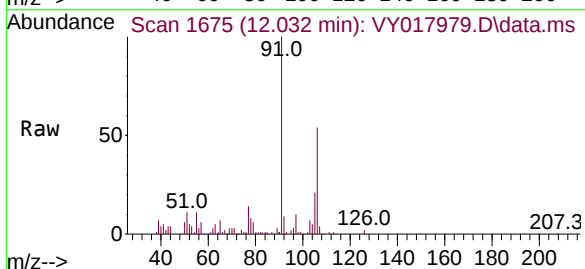
Instrument :
MSVOA_Y
ClientSampleId :
SOIL

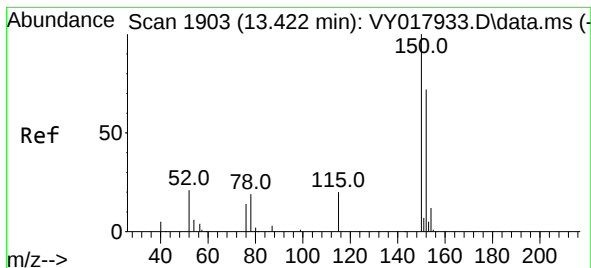
Tgt Ion:106 Resp: 24298
Ion Ratio Lower Upper
106 100
91 193.0 156.0 234.0



#69
o-Xylene
Concen: 1.86 ug/l
RT: 12.032 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VY017979.D
Acq: 18 Apr 2024 16:26

Tgt Ion:106 Resp: 12644
Ion Ratio Lower Upper
106 100
91 205.0 103.6 310.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.428 min Scan# 1903

Delta R.T. 0.000 min

Lab File: VY017979.D

Acq: 18 Apr 2024 16:26

Instrument :

MSVOA_Y

ClientSampleId :

SOIL

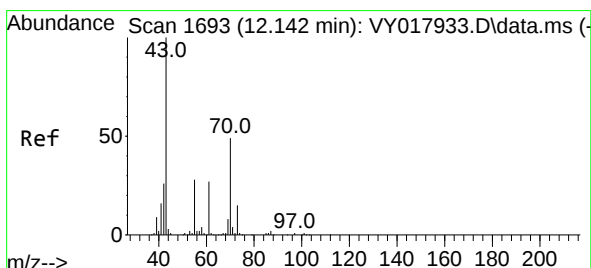
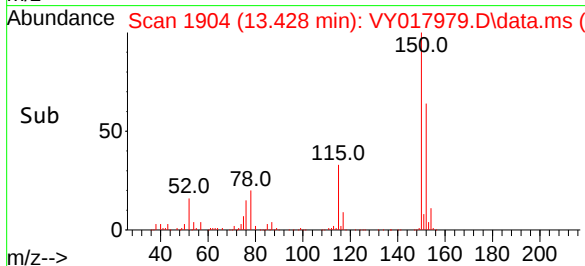
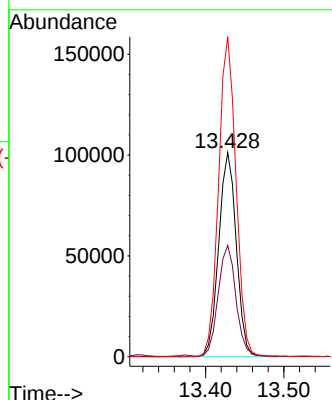
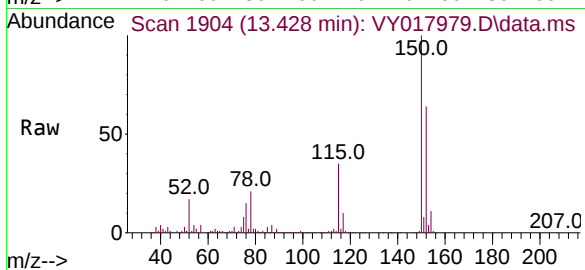
Tgt Ion:152 Resp: 157831

Ion Ratio Lower Upper

152 100

115 55.3 28.2 84.7

150 155.5 0.0 345.6



#74

N-ethyl acetate

Concen: 2.02 ug/l

RT: 12.124 min Scan# 1690

Delta R.T. -0.018 min

Lab File: VY017979.D

Acq: 18 Apr 2024 16:26

Tgt Ion: 43 Resp: 4693

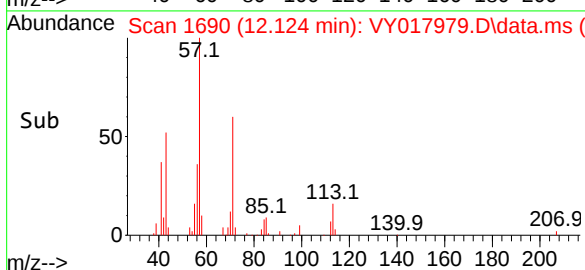
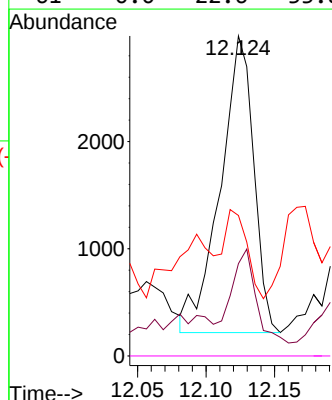
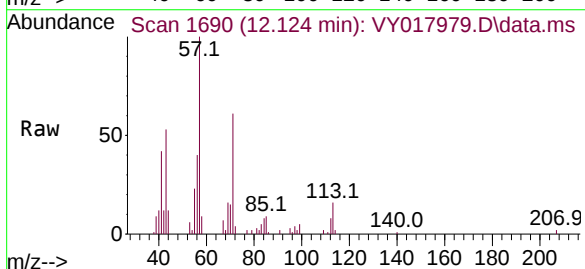
Ion Ratio Lower Upper

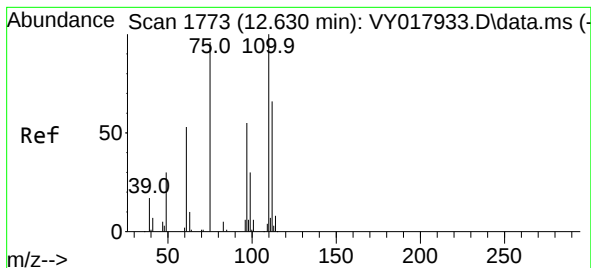
43 100

70 23.3 41.4 62.2#

55 21.0 23.3 34.9#

61 0.0 22.6 33.8#

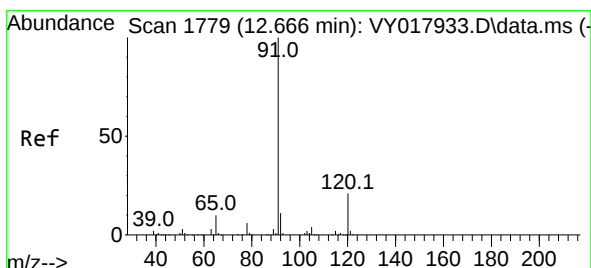
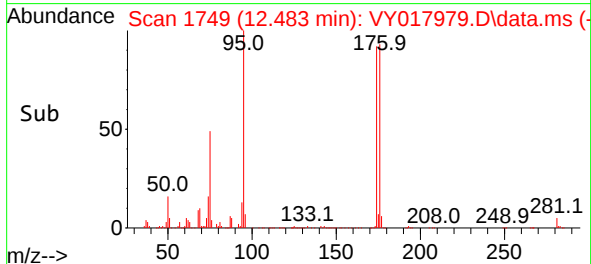
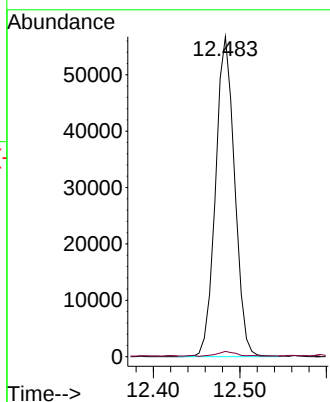
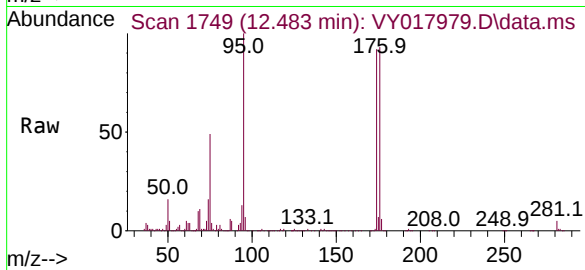




#76
1,2,3-Trichloropropane
Concen: 58.61 ug/l
RT: 12.483 min Scan# 1773
Delta R.T. -0.152 min
Lab File: VY017979.D
Acq: 18 Apr 2024 16:26

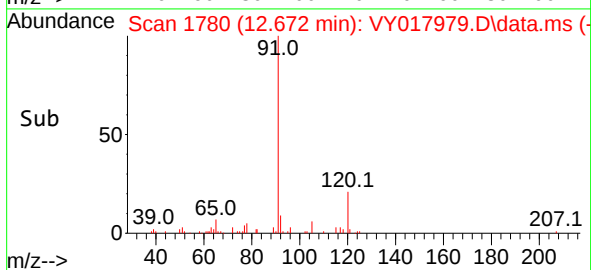
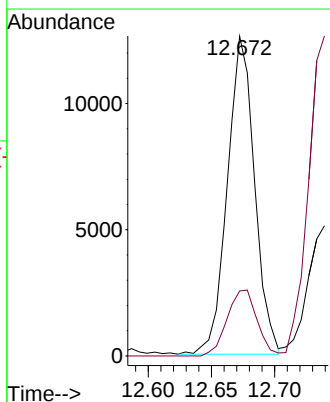
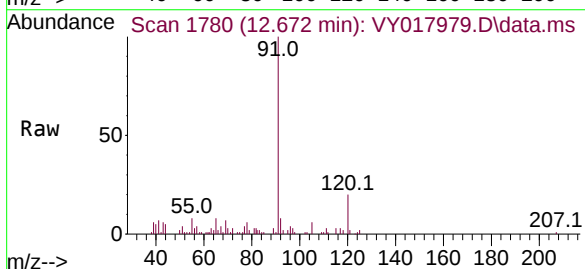
Instrument :
MSVOA_Y
ClientSampleId :
SOIL

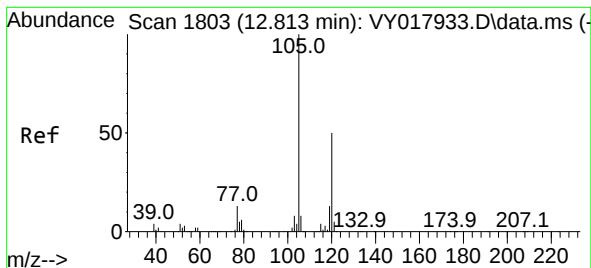
Tgt Ion: 75 Resp: 86811
Ion Ratio Lower Upper
75 100
77 1.7 0.0 0.0#



#78
n-propylbenzene
Concen: 1.35 ug/l
RT: 12.672 min Scan# 1780
Delta R.T. 0.000 min
Lab File: VY017979.D
Acq: 18 Apr 2024 16:26

Tgt Ion: 91 Resp: 18862
Ion Ratio Lower Upper
91 100
120 22.8 11.5 34.4





#80

1,3,5-Trimethylbenzene

Concen: 3.92 ug/l

RT: 12.819 min Scan# 1749

Delta R.T. 0.006 min

Lab File: VY017979.D

Acq: 18 Apr 2024 16:26

Instrument :

MSVOA_Y

ClientSampleId :

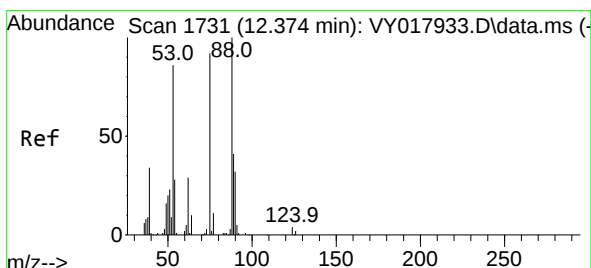
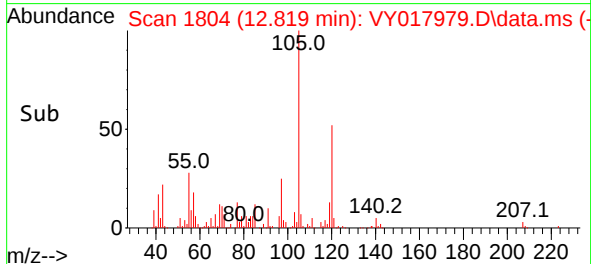
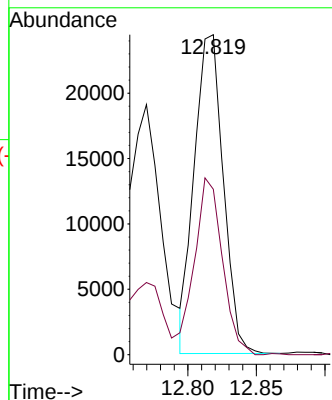
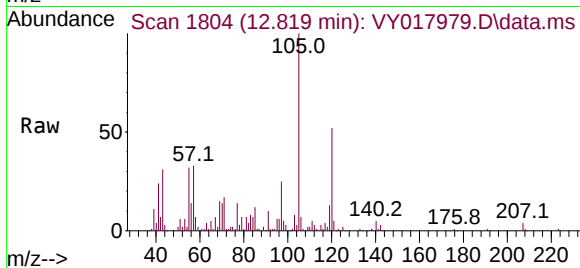
SOIL

Tgt Ion:105 Resp: 35762

Ion Ratio Lower Upper

105 100

120 54.2 25.1 75.2



#81

trans-1,4-Dichloro-2-butene

Concen: 120.85 ug/l

RT: 12.483 min Scan# 1749

Delta R.T. 0.104 min

Lab File: VY017979.D

Acq: 18 Apr 2024 16:26

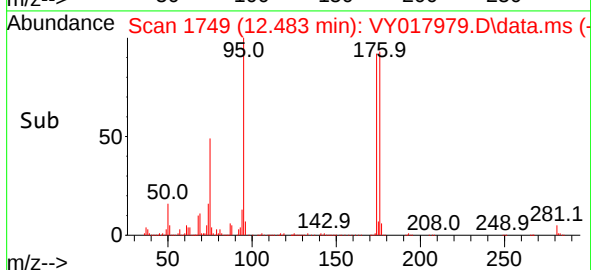
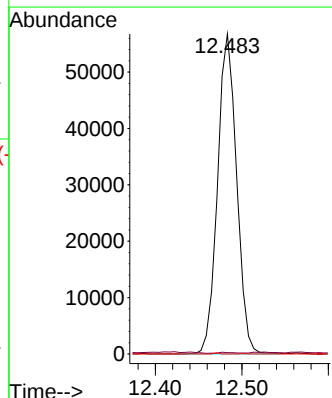
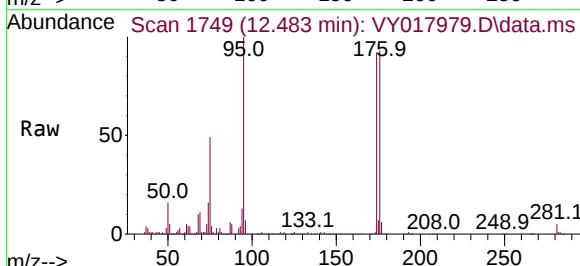
Tgt Ion: 75 Resp: 86811

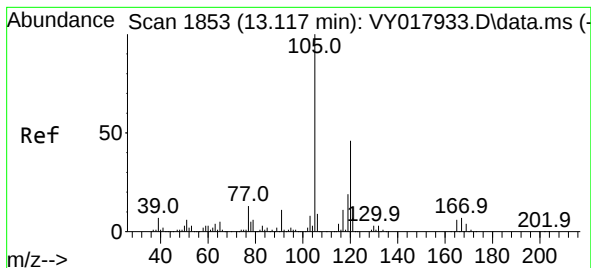
Ion Ratio Lower Upper

75 100

53 0.2 66.8 100.2#

89 0.1 35.8 53.6#





#84

1,2,4-Trimethylbenzene

Concen: 10.33 ug/l

RT: 13.123 min Scan# 1854

Delta R.T. 0.006 min

Lab File: VY017979.D

Acq: 18 Apr 2024 16:26

Instrument :

MSVOA_Y

ClientSampleId :

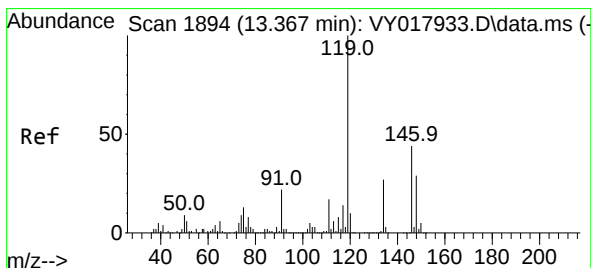
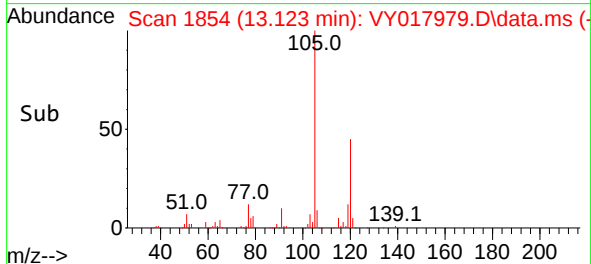
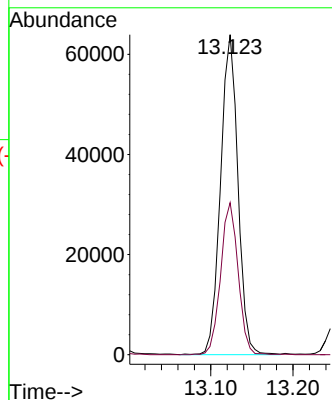
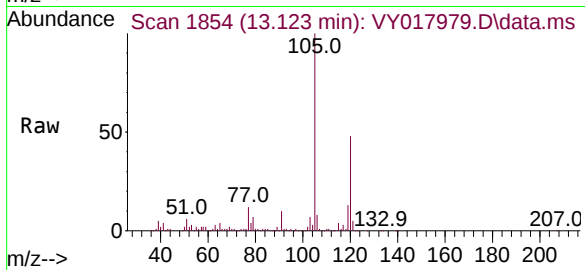
SOIL

Tgt Ion:105 Resp: 93827

Ion Ratio Lower Upper

105 100

120 47.7 23.2 69.6



#86

p-Isopropyltoluene

Concen: 1.25 ug/l

RT: 13.373 min Scan# 1895

Delta R.T. 0.006 min

Lab File: VY017979.D

Acq: 18 Apr 2024 16:26

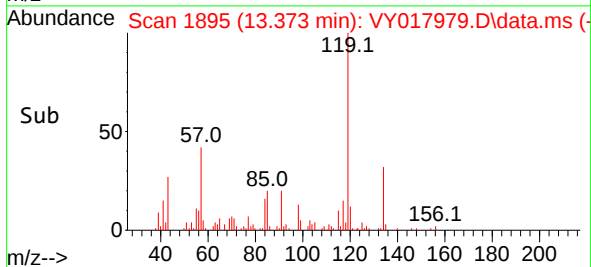
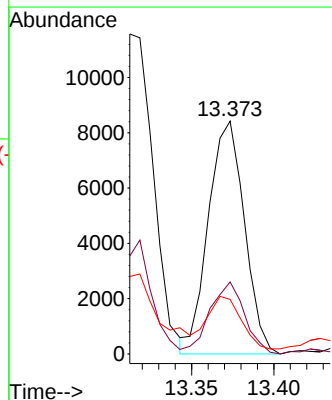
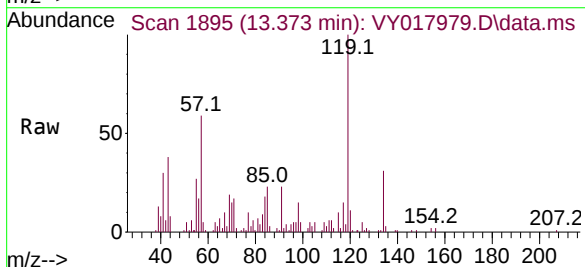
Tgt Ion:119 Resp: 12837

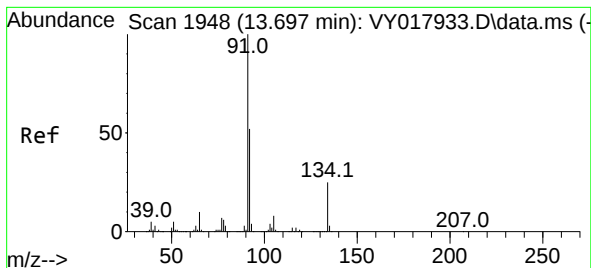
Ion Ratio Lower Upper

119 100

134 30.0 13.1 39.3

91 21.2 10.7 32.1





#89

n-Butylbenzene

Concen: 1.31 ug/l

RT: 13.696 min Scan# 1948

Delta R.T. 0.000 min

Lab File: VY017979.D

Acq: 18 Apr 2024 16:26

Instrument :

MSVOA_Y

ClientSampleId :

SOIL

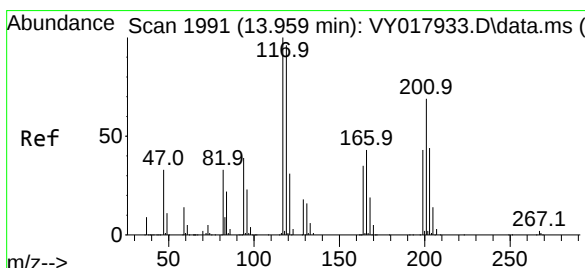
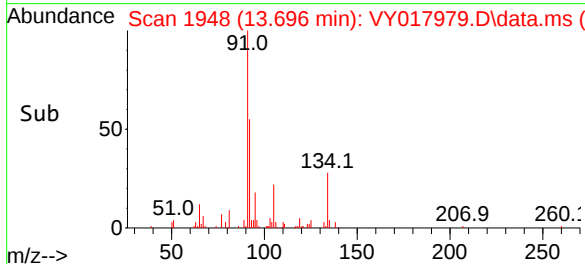
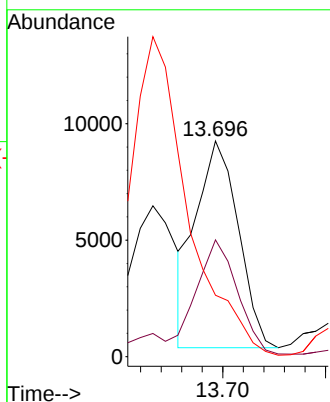
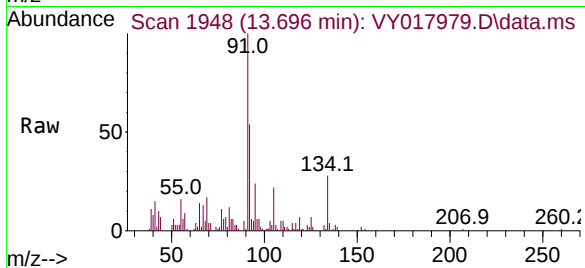
Tgt Ion: 91 Resp: 12717

Ion Ratio Lower Upper

91 100

92 66.3 26.6 79.7

134 0.0 12.9 38.7#



#90

Hexachloroethane

Concen: 2.35 ug/l

RT: 13.971 min Scan# 1993

Delta R.T. 0.012 min

Lab File: VY017979.D

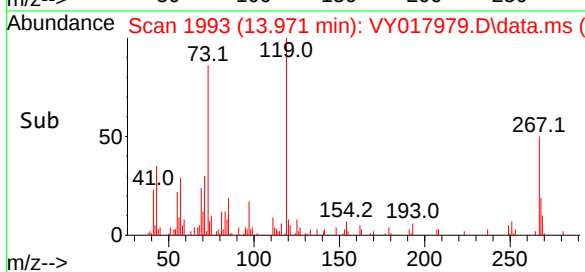
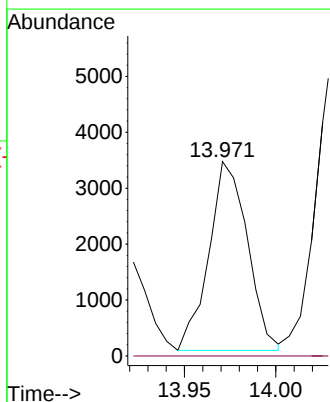
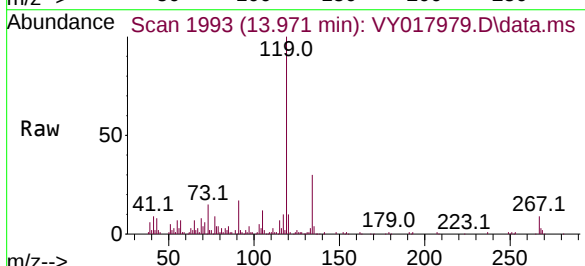
Acq: 18 Apr 2024 16:26

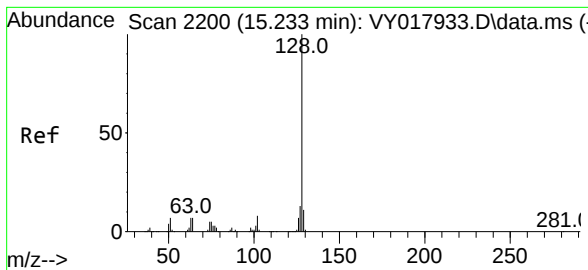
Tgt Ion: 117 Resp: 4963

Ion Ratio Lower Upper

117 100

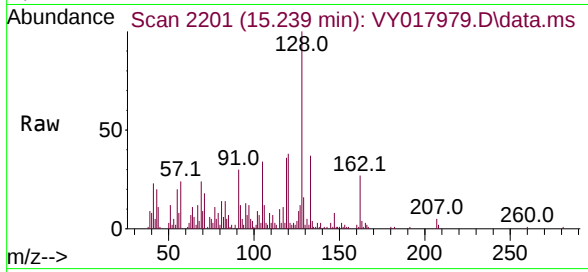
201 0.0 37.4 112.2#





#95
Naphthalene
Concen: 3.37 ug/l
RT: 15.239 min Scan# 21
Delta R.T. 0.006 min
Lab File: VY017979.D
Acq: 18 Apr 2024 16:26

Instrument :
MSVOA_Y
ClientSampleId :
SOIL



Tgt Ion:	128	Resp:	15391
Ion	Ratio	Lower	Upper
128	100		
127	16.3	10.6	16.0#
129	14.7	8.6	13.0#

