

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY053025\
 Data File : VY022484.D
 Acq On : 30 May 2025 17:25
 Operator : SY/MD
 Sample : Q2161-01
 Misc : 5.43g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 B27-SOIL-SAMPLE

Quant Time: May 31 02:31:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
 Quant Title : SW846 8260
 QLast Update : Wed May 28 10:34:06 2025
 Response via : Initial Calibration

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

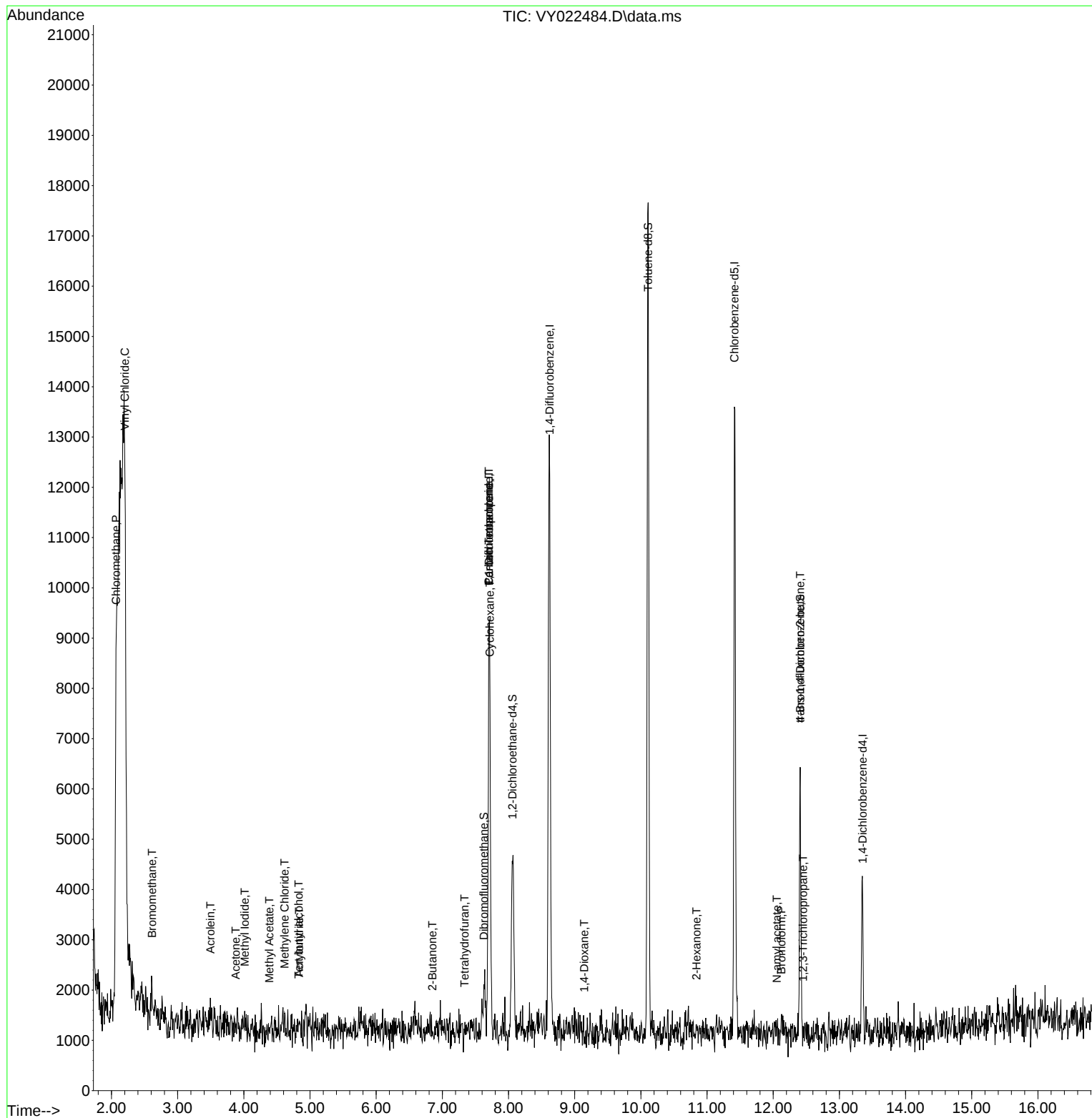
Internal Standards						
1) Pentafluorobenzene	7.701	168	6390	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	8.622	114	10178	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	6206	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	883	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	3129	46.489	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	92.980%
35) Dibromofluoromethane	7.628	113	406	6.811	ug/l	-0.01
Spiked Amount	50.000	Range	54 - 147	Recovery	=	13.620%#
50) Toluene-d8	10.109	98	11048	45.468	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	90.940%
62) 4-Bromofluorobenzene	12.408	95	1610	21.905	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	43.800%
Target Compounds						
					Qvalue	
3) Chloromethane	2.068	50	612	4.081	ug/l #	49
4) Vinyl Chloride	2.202	62	313	1.718	ug/l #	42
5) Bromomethane	2.611	94	550	3.322	ug/l #	56
10) Methyl Iodide	4.013	142	256	3.365	ug/l #	60
11) Tert butyl alcohol	4.830	59	25	5.270	ug/l #	70
13) Acrolein	3.494	56	54	7.596	ug/l #	14
15) Acrylonitrile	4.836	53	19	1.330	ug/l #	1
16) Acetone	3.879	43	230	20.796	ug/l #	49
18) Methyl Acetate	4.385	43	52	1.255	ug/l #	48
20) Methylene Chloride	4.616	84	150	1.921	ug/l #	24
25) 2-Butanone	6.848	43	23	1.249	ug/l #	46
29) Tetrahydrofuran	7.335	42	22	1.791	ug/l #	31
31) Cyclohexane	7.719	56	140	1.081	ug/l #	1
36) 1,1-Dichloropropene	7.701	75	566	5.984	ug/l #	46
38) Carbon Tetrachloride	7.701	117	779	7.906	ug/l #	12
49) 1,4-Dioxane	9.146	88	40	98.037	ug/l #	23
59) 2-Hexanone	10.841	43	57	2.007	ug/l	63
71) Bromoform	12.121	173	30	1.277	ug/l #	29
74) N-amyl acetate	12.054	43	40	2.352	ug/l #	12
76) 1,2,3-Trichloropropane	12.450	75	30	3.392	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.408	75	952	243.412	ug/l #	12

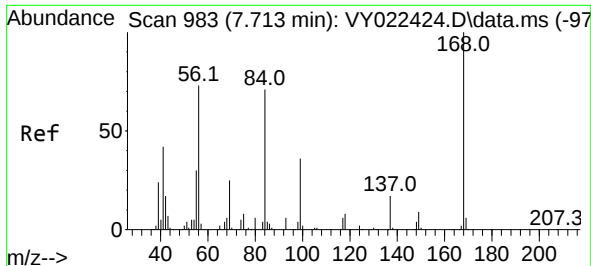
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration

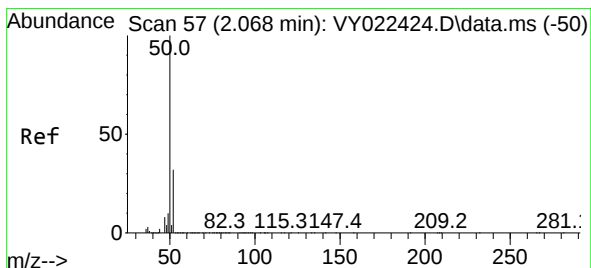
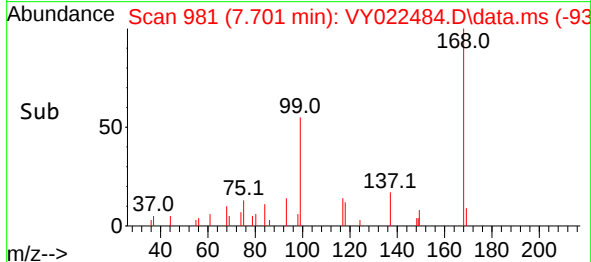
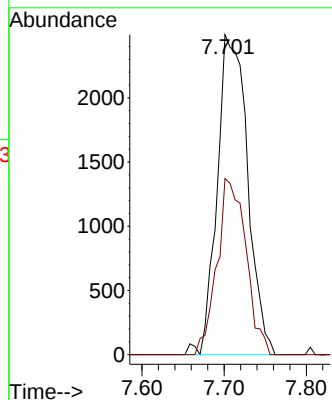
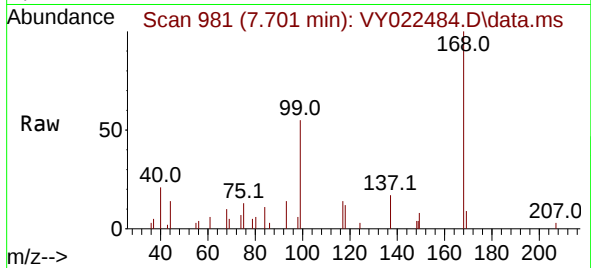




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.701 min Scan# 91
Delta R.T. -0.012 min
Lab File: VY022484.D
Acq: 30 May 2025 17:25

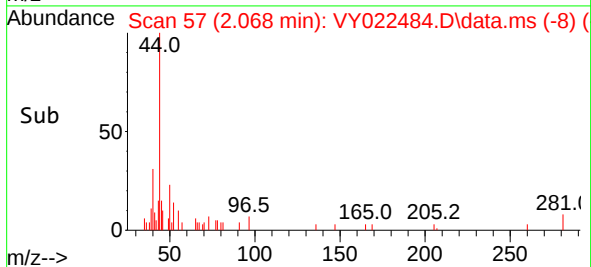
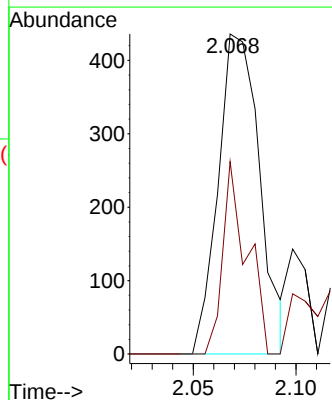
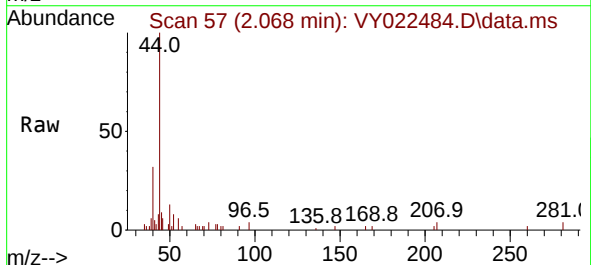
Instrument :
MSVOA_Y
ClientSampleId :
B27-SOIL-SAMPLE

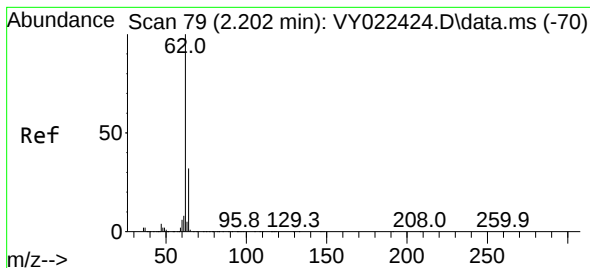
Tgt Ion:168 Resp: 6390
Ion Ratio Lower Upper
168 100
99 55.1 44.7 67.1



#3
Chloromethane
Concen: 4.081 ug/l
RT: 2.068 min Scan# 57
Delta R.T. 0.000 min
Lab File: VY022484.D
Acq: 30 May 2025 17:25

Tgt Ion: 50 Resp: 612
Ion Ratio Lower Upper
50 100
52 60.1 25.5 38.3#

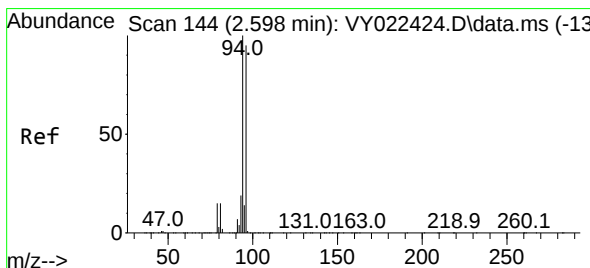
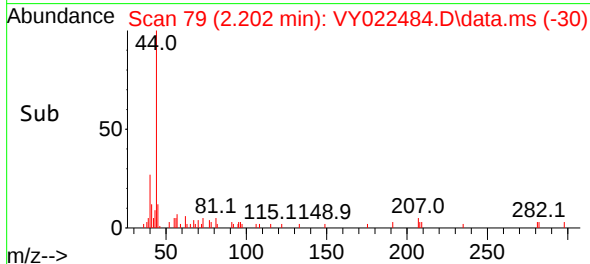
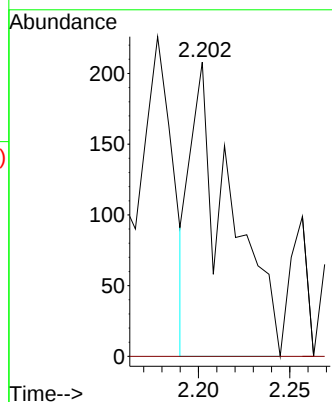
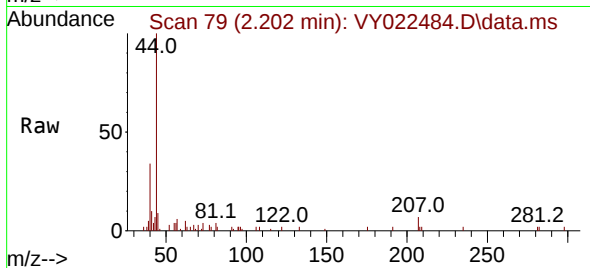




#4
 Vinyl Chloride
 Concen: 1.718 ug/l
 RT: 2.202 min Scan# 79
 Delta R.T. 0.000 min
 Lab File: VY022484.D
 Acq: 30 May 2025 17:25

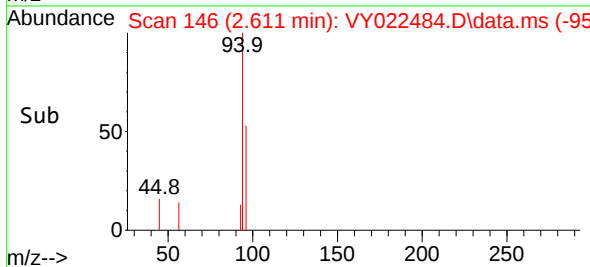
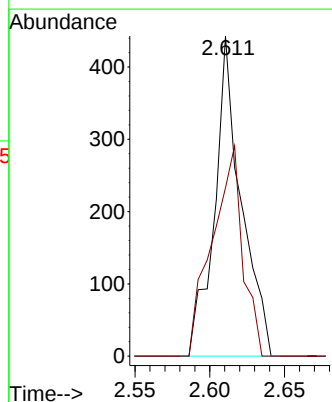
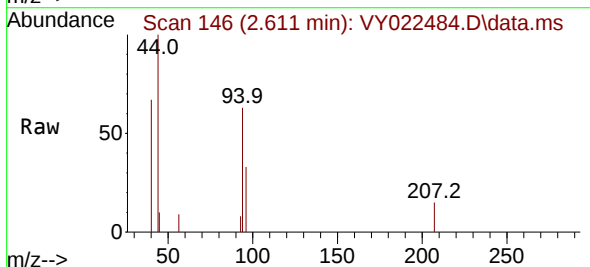
Instrument :
 MSVOA_Y
 ClientSampleId :
 B27-SOIL-SAMPLE

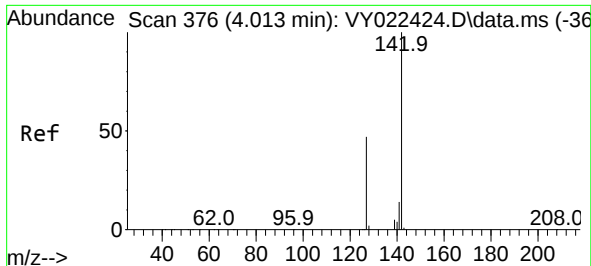
Tgt Ion: 62 Resp: 313
 Ion Ratio Lower Upper
 62 100
 64 0.0 26.0 39.0#



#5
 Bromomethane
 Concen: 3.322 ug/l
 RT: 2.611 min Scan# 146
 Delta R.T. 0.012 min
 Lab File: VY022484.D
 Acq: 30 May 2025 17:25

Tgt Ion: 94 Resp: 550
 Ion Ratio Lower Upper
 94 100
 96 52.6 76.0 114.0#

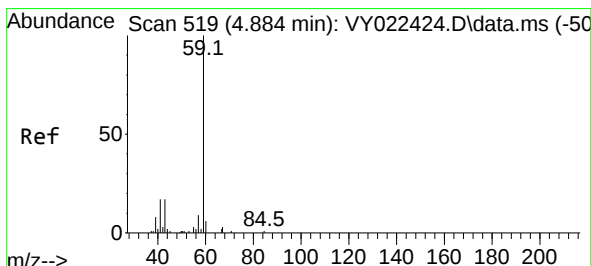
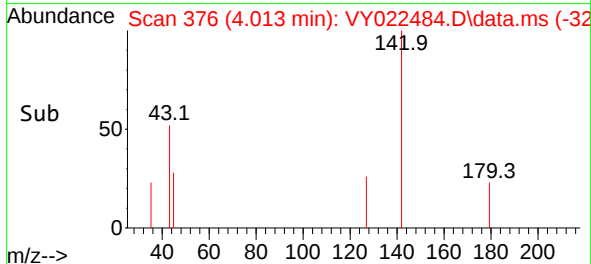
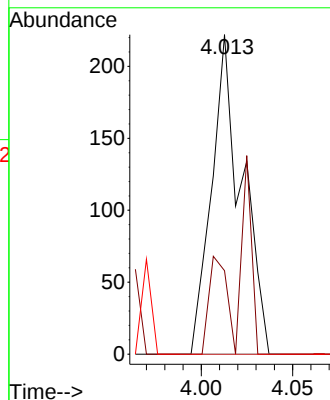
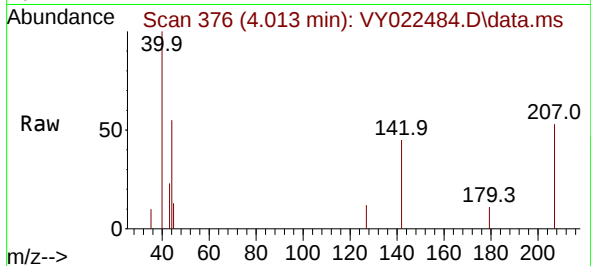




#10
Methyl Iodide
Concen: 3.365 ug/l
RT: 4.013 min Scan# 31
Delta R.T. 0.000 min
Lab File: VY022484.D
Acq: 30 May 2025 17:25

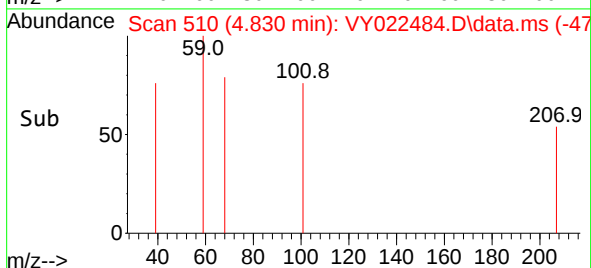
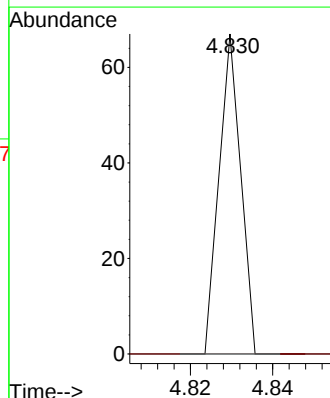
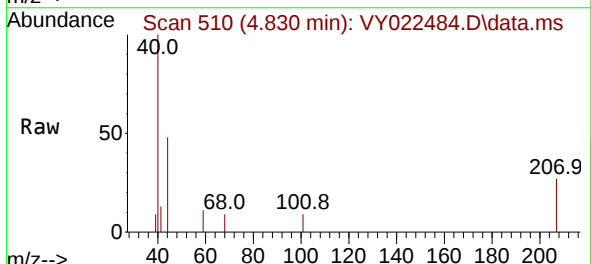
Instrument :
MSVOA_Y
ClientSampleId :
B27-SOIL-SAMPLE

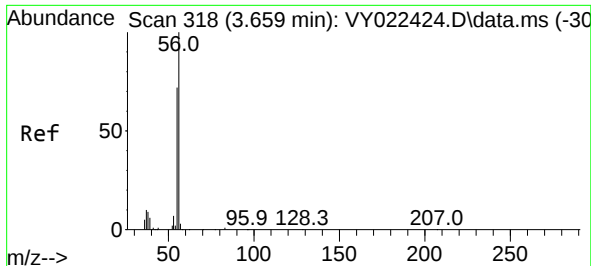
Tgt Ion:142 Resp: 256
Ion Ratio Lower Upper
142 100
127 18.0 36.2 54.4#
141 0.0 11.6 17.4#



#11
Tert butyl alcohol
Concen: 5.270 ug/l
RT: 4.830 min Scan# 510
Delta R.T. -0.055 min
Lab File: VY022484.D
Acq: 30 May 2025 17:25

Tgt Ion: 59 Resp: 25
Ion Ratio Lower Upper
59 100
57 0.0 9.1 13.7#

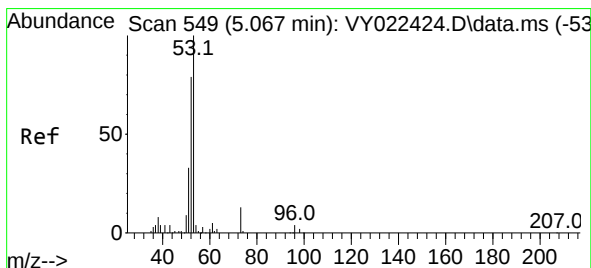
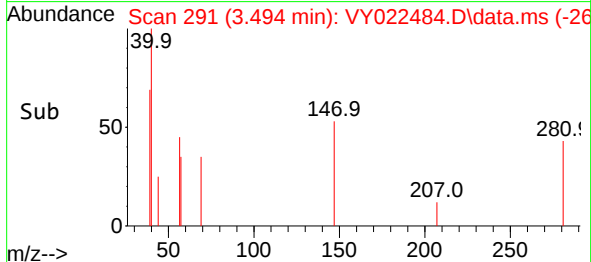
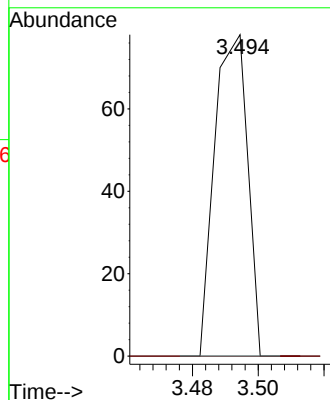
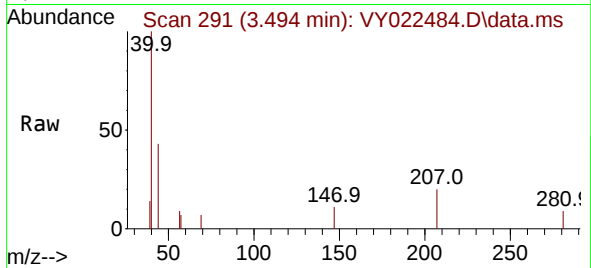




#13
Acrolein
Concen: 7.596 ug/l
RT: 3.494 min Scan# 24
Delta R.T. -0.165 min
Lab File: VY022484.D
Acq: 30 May 2025 17:25

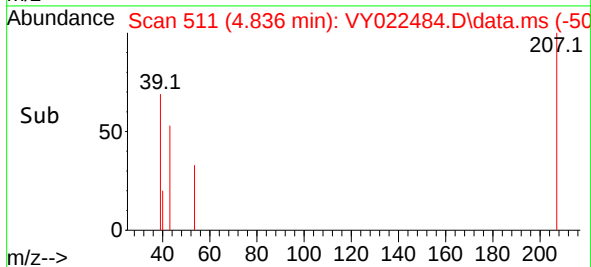
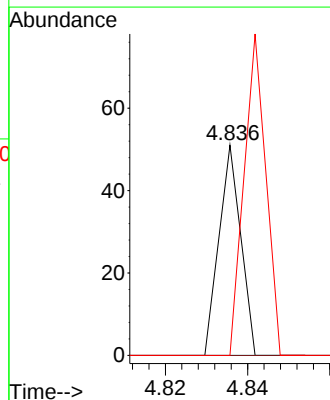
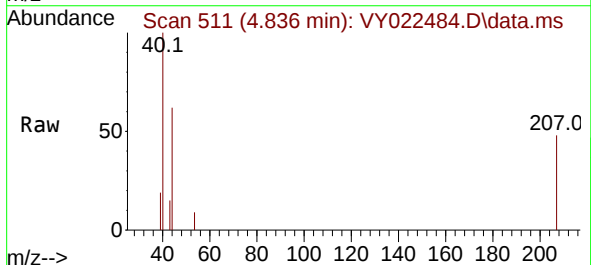
Instrument :
MSVOA_Y
ClientSampleId :
B27-SOIL-SAMPLE

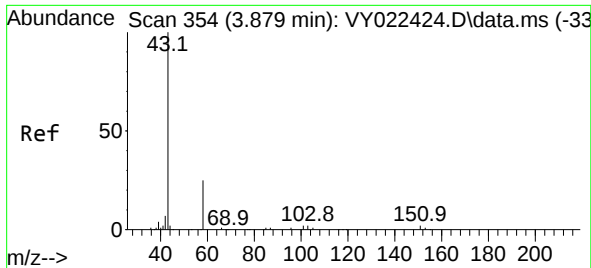
Tgt Ion: 56 Resp: 54
Ion Ratio Lower Upper
56 100
55 0.0 56.5 84.7#



#15
Acrylonitrile
Concen: 1.330 ug/l
RT: 4.836 min Scan# 511
Delta R.T. -0.232 min
Lab File: VY022484.D
Acq: 30 May 2025 17:25

Tgt Ion: 53 Resp: 19
Ion Ratio Lower Upper
53 100
52 0.0 65.1 97.7#
51 152.6 30.0 45.0#

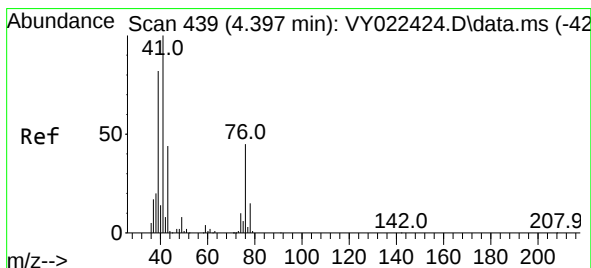
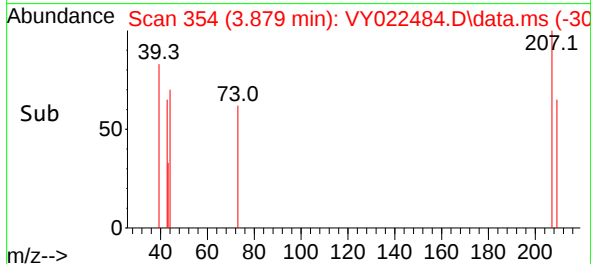
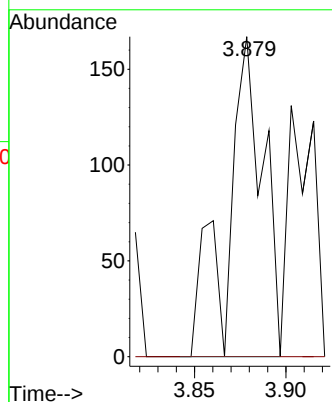
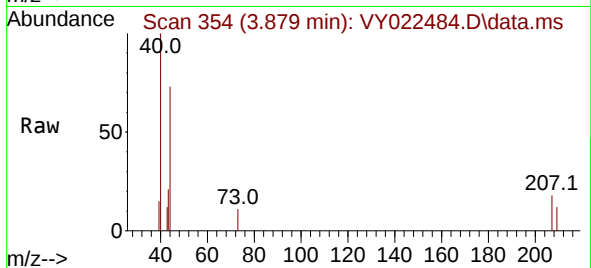




#16
Acetone
Concen: 20.796 ug/l
RT: 3.879 min Scan# 311
Delta R.T. 0.000 min
Lab File: VY022484.D
Acq: 30 May 2025 17:25

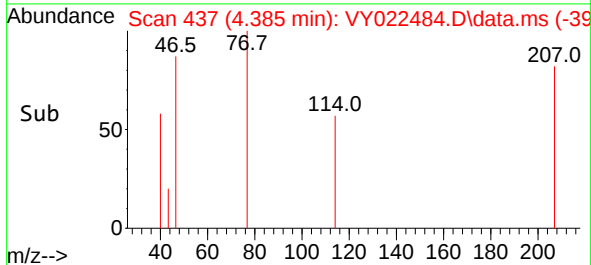
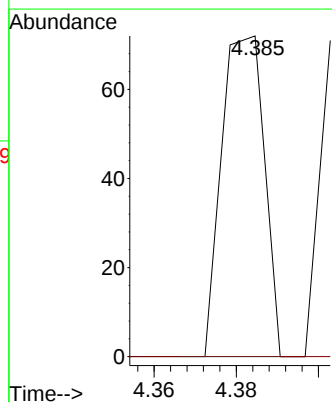
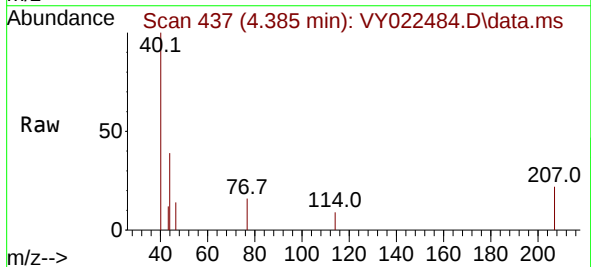
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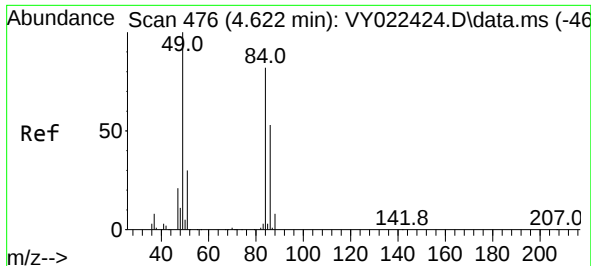
Tgt Ion: 43 Resp: 230
Ion Ratio Lower Upper
43 100
58 0.0 20.6 30.8#



#18
Methyl Acetate
Concen: 1.255 ug/l
RT: 4.385 min Scan# 437
Delta R.T. -0.012 min
Lab File: VY022484.D
Acq: 30 May 2025 17:25

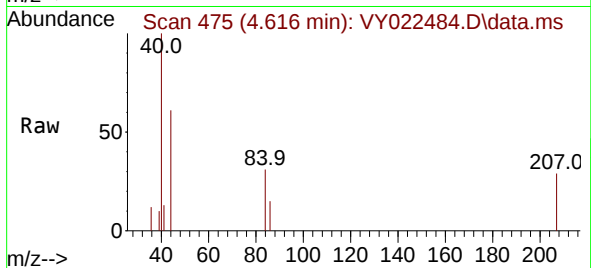
Tgt Ion: 43 Resp: 52
Ion Ratio Lower Upper
43 100
74 0.0 21.2 31.8#



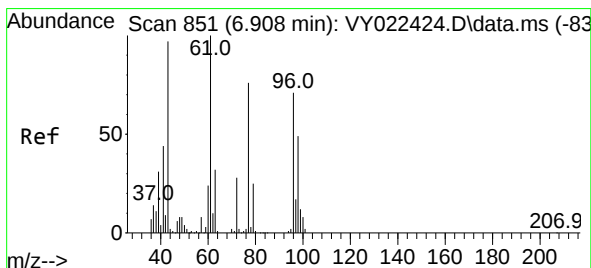
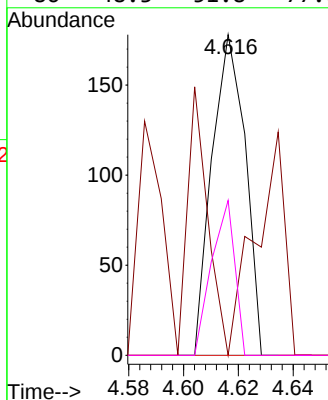
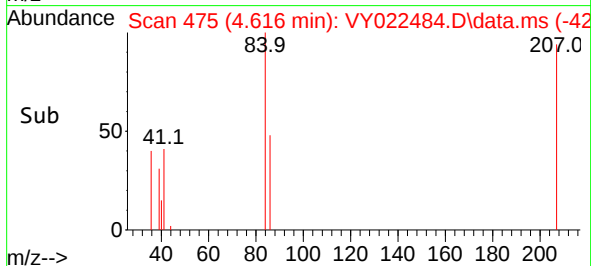


#20
Methylene Chloride
Concen: 1.921 ug/l
RT: 4.616 min Scan# 41
Delta R.T. -0.006 min
Lab File: VY022484.D
Acq: 30 May 2025 17:25

Instrument :
MSVOA_Y
ClientSampleId :
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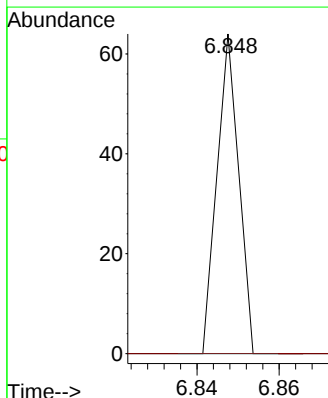
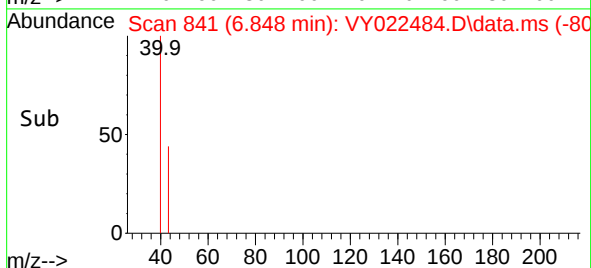
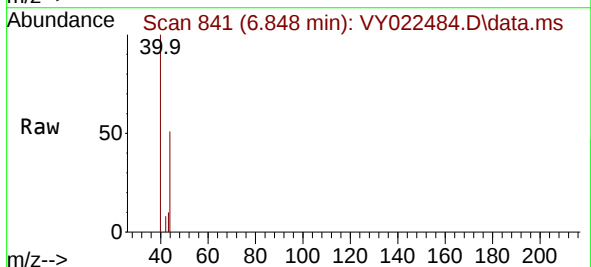


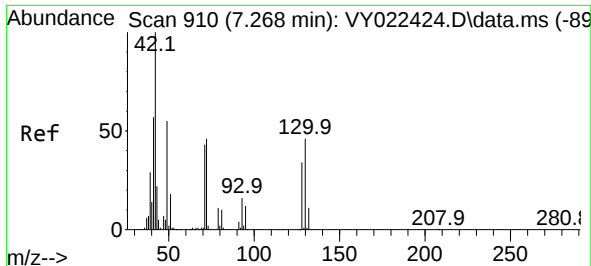
Tgt Ion:	84	Resp:	150
Ion	Ratio	Lower	Upper
84	100		
49	0.0	97.8	146.8#
51	0.0	29.5	44.3#
86	48.3	51.8	77.6#



#25
2-Butanone
Concen: 1.249 ug/l
RT: 6.848 min Scan# 841
Delta R.T. -0.061 min
Lab File: VY022484.D
Acq: 30 May 2025 17:25

Tgt Ion:	43	Resp:	23
Ion	Ratio	Lower	Upper
43	100		
72	0.0	22.8	34.2#





#29

Tetrahydrofuran

Concen: 1.791 ug/l

RT: 7.335 min Scan# 910

Delta R.T. 0.067 min

Lab File: VY022484.D

Acq: 30 May 2025 17:25

Instrument :

MSVOA_Y

ClientSampleId :

B27-SOIL-SAMPLE

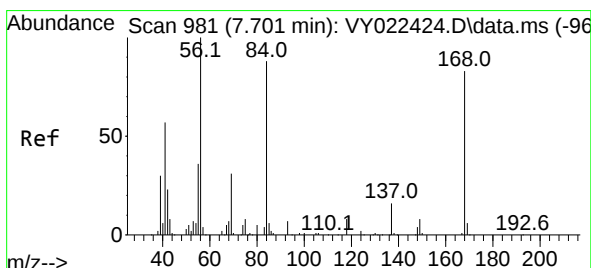
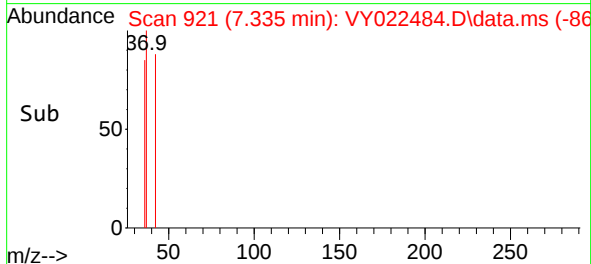
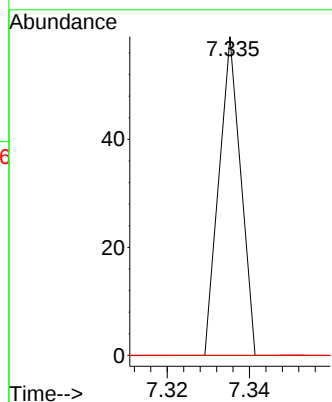
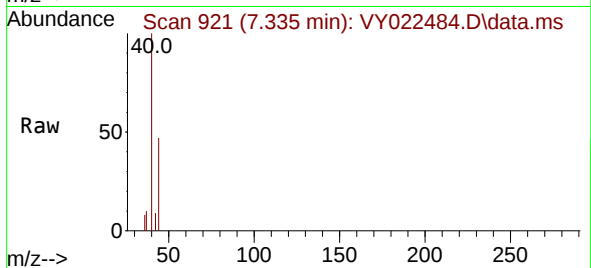
Tgt Ion: 42 Resp: 22

Ion Ratio Lower Upper

42 100

72 0.0 37.7 56.5#

71 0.0 34.7 52.1#



#31

Cyclohexane

Concen: 1.081 ug/l

RT: 7.719 min Scan# 984

Delta R.T. 0.018 min

Lab File: VY022484.D

Acq: 30 May 2025 17:25

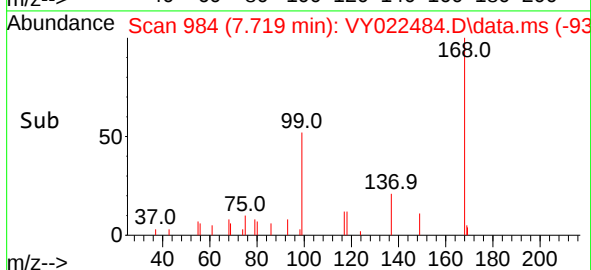
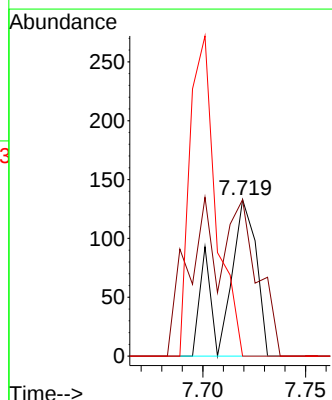
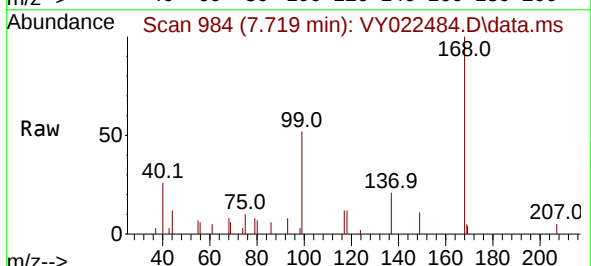
Tgt Ion: 56 Resp: 140

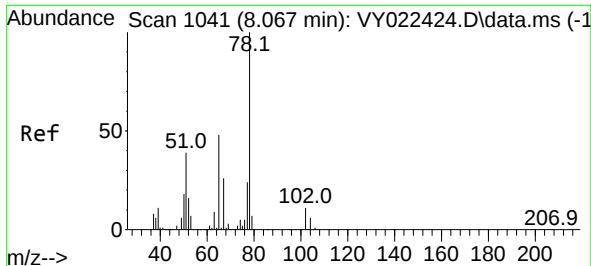
Ion Ratio Lower Upper

56 100

69 100.0 24.6 36.8#

84 0.0 70.4 105.6#





#33

1,2-Dichloroethane-d4

Concen: 46.489 ug/l

RT: 8.061 min Scan# 110

Delta R.T. -0.006 min

Lab File: VY022484.D

Acq: 30 May 2025 17:25

Instrument :

MSVOA_Y

ClientSampleId :

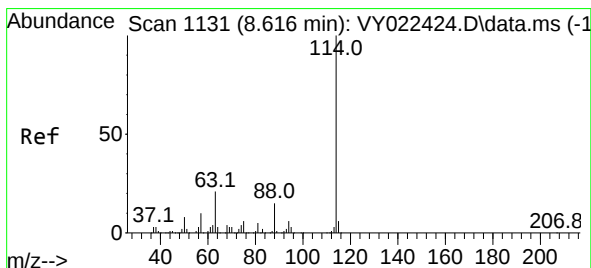
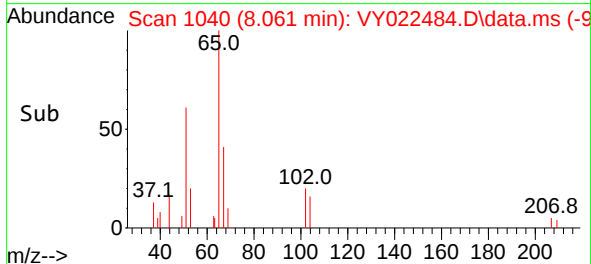
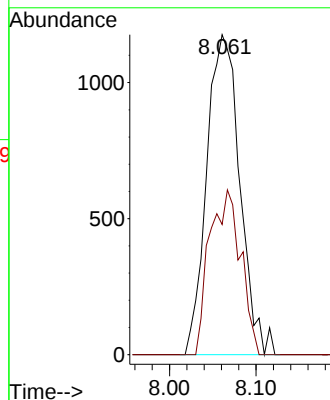
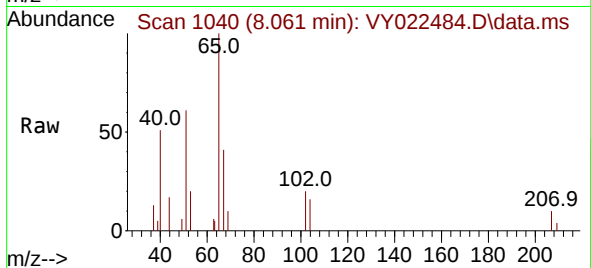
B27-SOIL-SAMPLE

Tgt Ion: 65 Resp: 3129

Ion Ratio Lower Upper

65 100

67 48.3 0.0 104.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.622 min Scan# 1132

Delta R.T. 0.006 min

Lab File: VY022484.D

Acq: 30 May 2025 17:25

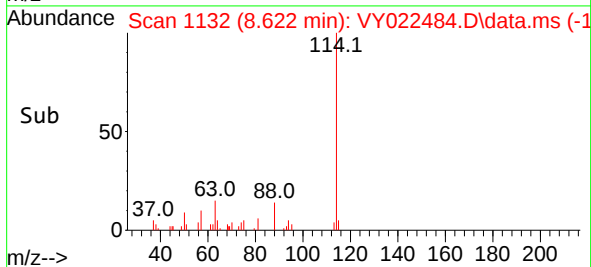
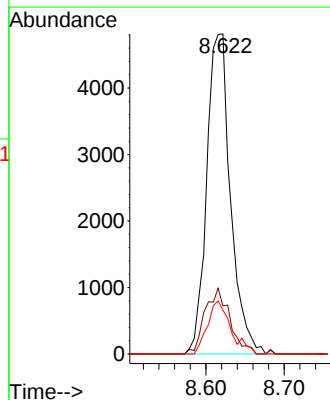
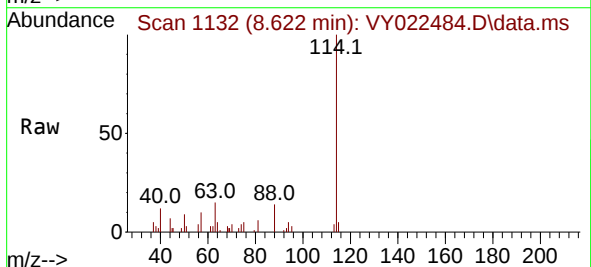
Tgt Ion: 114 Resp: 10178

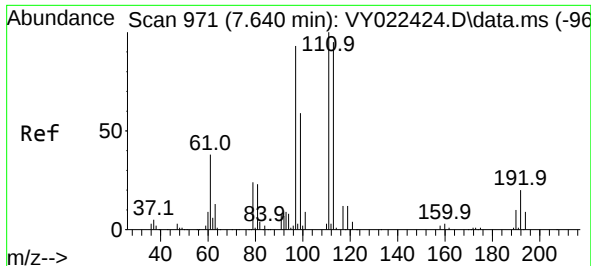
Ion Ratio Lower Upper

114 100

63 15.1 0.0 42.6

88 13.7 0.0 29.4





#35

Dibromofluoromethane

Concen: 6.811 ug/l

RT: 7.628 min Scan# 91

Delta R.T. -0.012 min

Lab File: VY022484.D

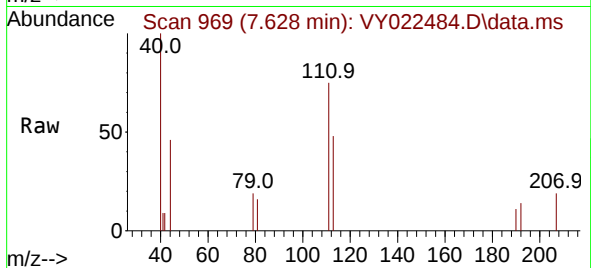
Acq: 30 May 2025 17:25

Instrument :

MSVOA_Y

ClientSampleId :

B27-SOIL-SAMPLE



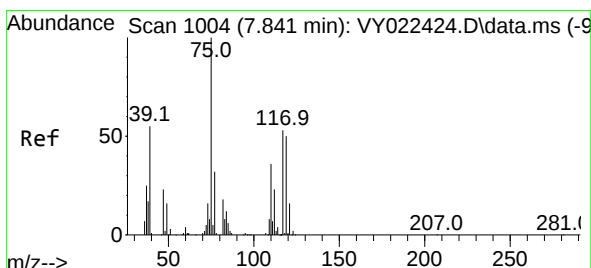
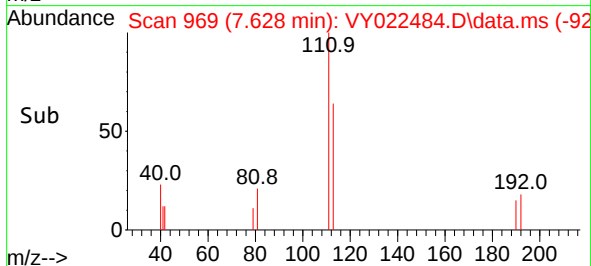
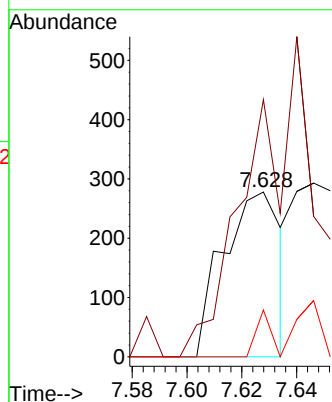
Tgt Ion:113 Resp: 406

Ion Ratio Lower Upper

113 100

111 117.0 82.4 123.6

192 21.4 15.2 22.8



#36

1,1-Dichloropropene

Concen: 5.984 ug/l

RT: 7.701 min Scan# 981

Delta R.T. -0.140 min

Lab File: VY022484.D

Acq: 30 May 2025 17:25

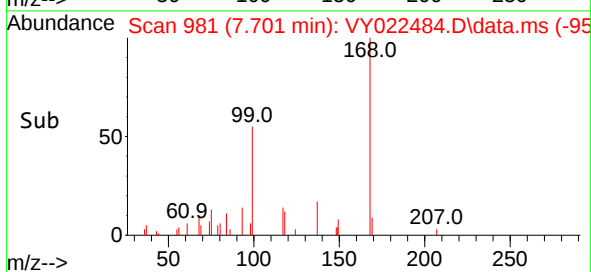
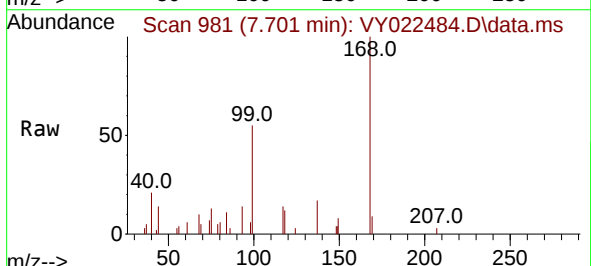
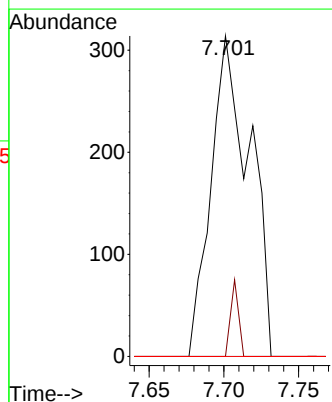
Tgt Ion: 75 Resp: 566

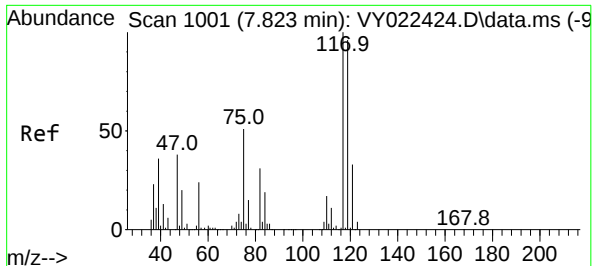
Ion Ratio Lower Upper

75 100

110 4.8 17.1 51.2#

77 0.0 25.1 37.7#

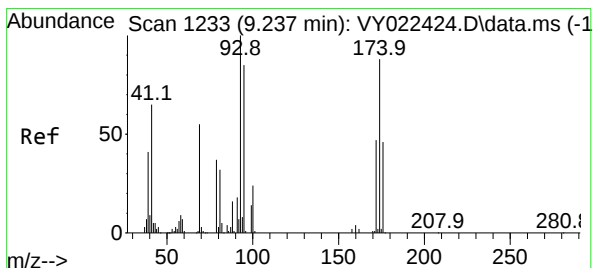
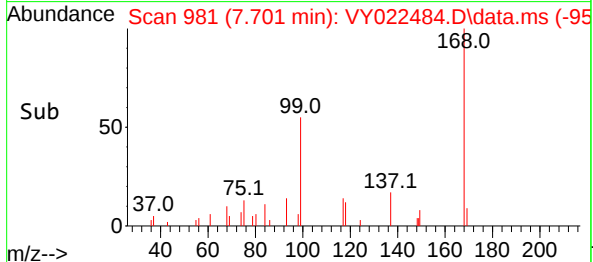
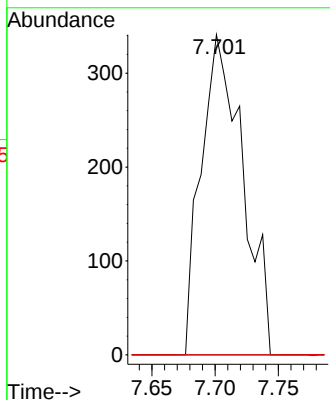
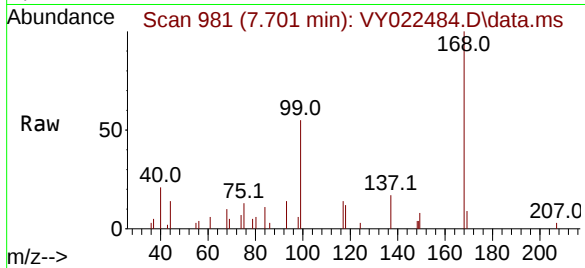




#38
Carbon Tetrachloride
Concen: 7.906 ug/l
RT: 7.701 min Scan# 91
Delta R.T. -0.122 min
Lab File: VY022484.D
Acq: 30 May 2025 17:25

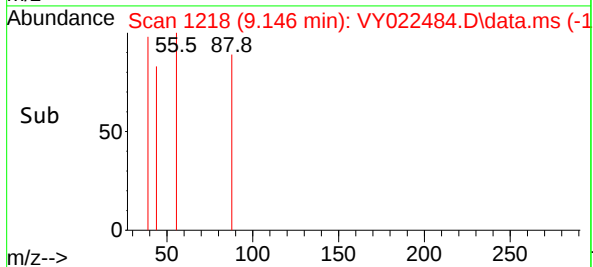
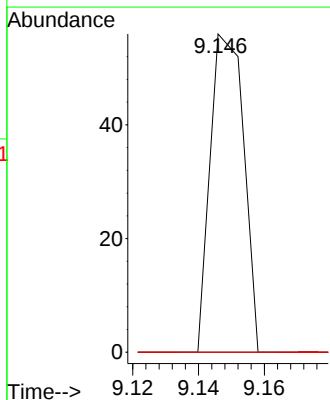
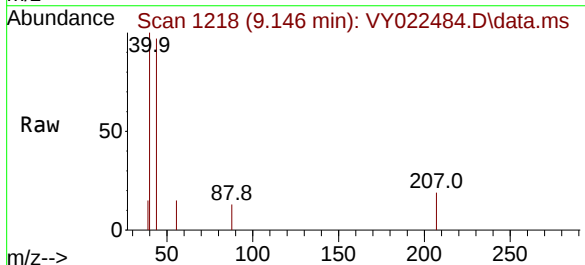
Instrument :
MSVOA_Y
ClientSampleId :
B27-SOIL-SAMPLE

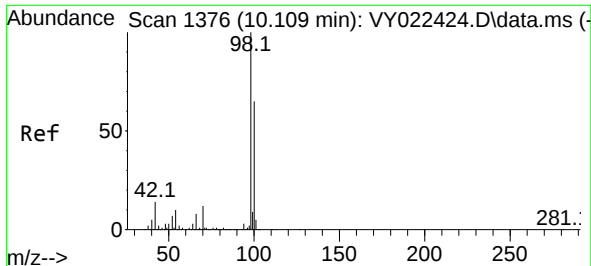
Tgt Ion: 117 Resp: 779
Ion Ratio Lower Upper
117 100
119 0.0 76.3 114.5#
121 0.0 26.1 39.1#



#49
1,4-Dioxane
Concen: 98.037 ug/l
RT: 9.146 min Scan# 1218
Delta R.T. -0.091 min
Lab File: VY022484.D
Acq: 30 May 2025 17:25

Tgt Ion: 88 Resp: 40
Ion Ratio Lower Upper
88 100
43 0.0 26.9 40.3#
58 0.0 55.8 83.6#

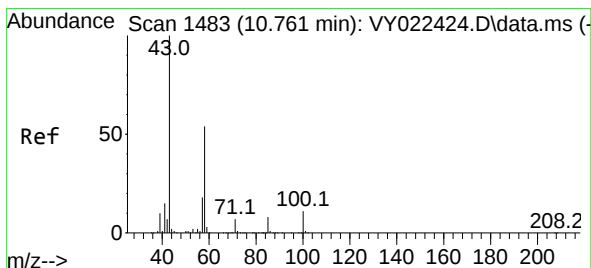
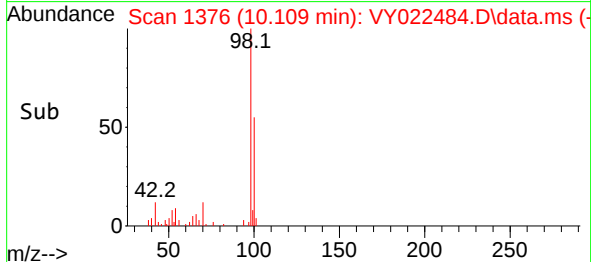
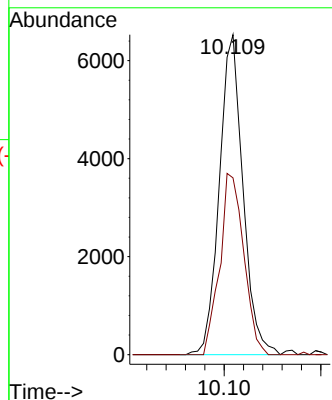
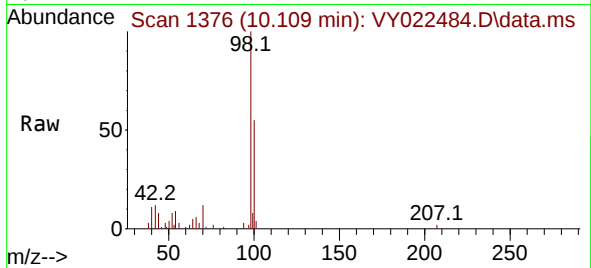




#50
Toluene-d8
Concen: 45.468 ug/l
RT: 10.109 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY022484.D
Acq: 30 May 2025 17:25

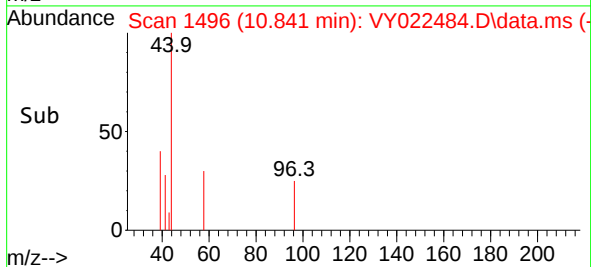
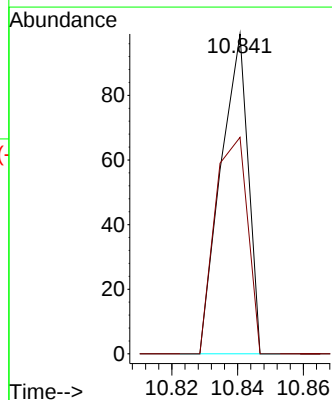
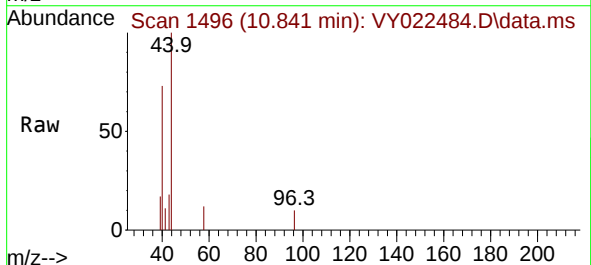
Instrument :
MSVOA_Y
ClientSampleId :
B27-SOIL-SAMPLE

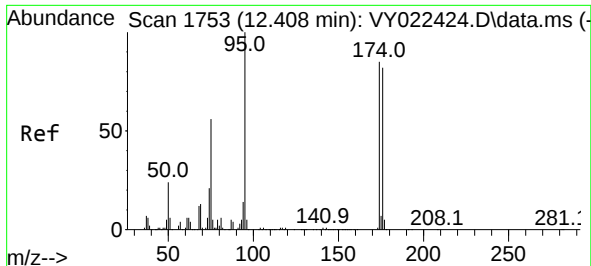
Tgt Ion: 98 Resp: 11048
Ion Ratio Lower Upper
98 100
100 57.6 52.2 78.2



#59
2-Hexanone
Concen: 2.007 ug/l
RT: 10.841 min Scan# 1496
Delta R.T. 0.079 min
Lab File: VY022484.D
Acq: 30 May 2025 17:25

Tgt Ion: 43 Resp: 57
Ion Ratio Lower Upper
43 100
58 80.7 27.1 81.2

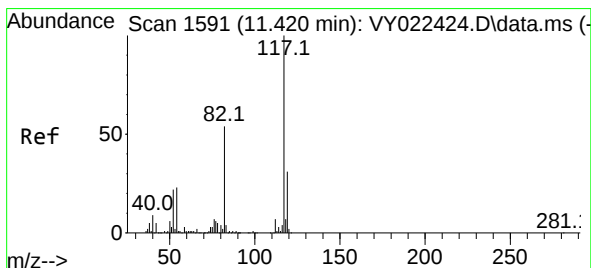
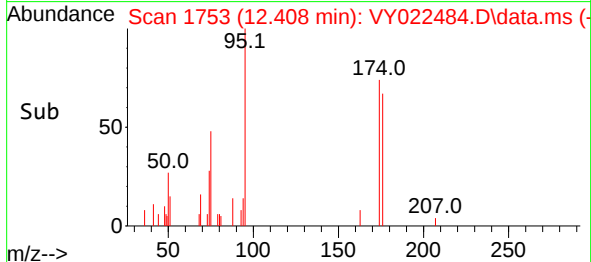
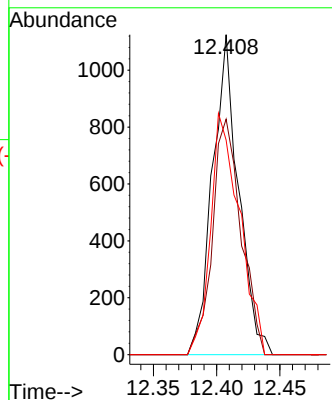
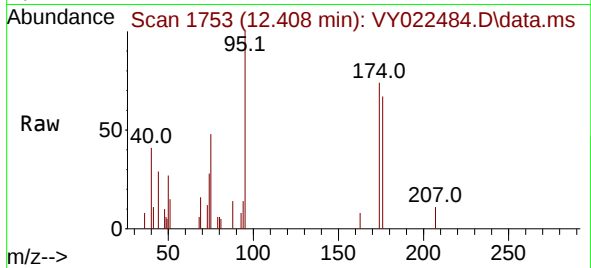




#62
4-Bromofluorobenzene
Concen: 21.905 ug/l
RT: 12.408 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY022484.D
Acq: 30 May 2025 17:25

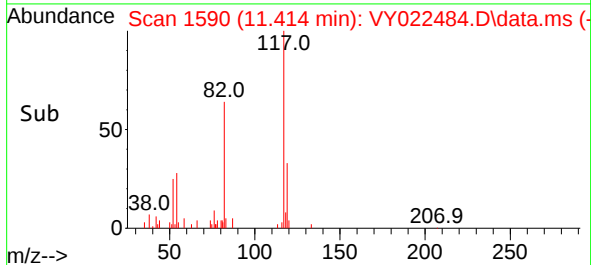
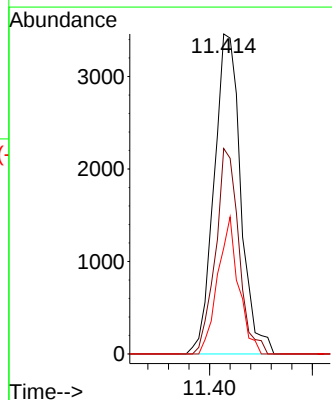
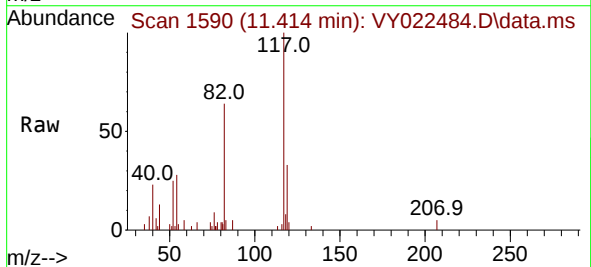
Instrument :
MSVOA_Y
ClientSampleId :
B27-SOIL-SAMPLE

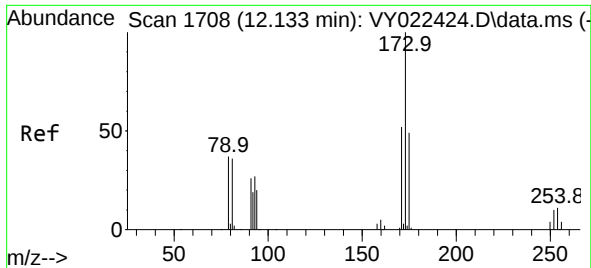
Tgt Ion: 95 Resp: 1610
Ion Ratio Lower Upper
95 100
174 80.8 0.0 171.6
176 83.8 0.0 164.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. -0.006 min
Lab File: VY022484.D
Acq: 30 May 2025 17:25

Tgt Ion: 117 Resp: 6206
Ion Ratio Lower Upper
117 100
82 64.2 43.3 64.9
119 33.1 24.5 36.7

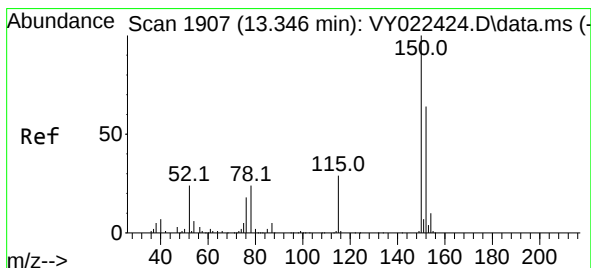
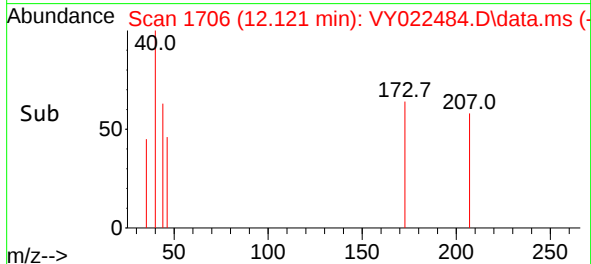
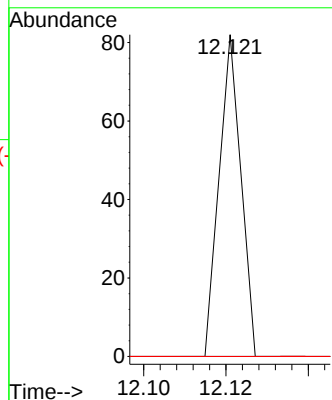
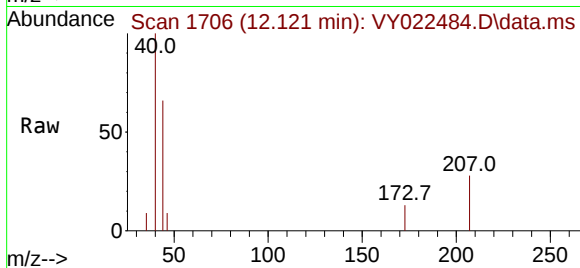




#71
Bromoform
Concen: 1.277 ug/l
RT: 12.121 min Scan# 1706
Delta R.T. -0.012 min
Lab File: VY022484.D
Acq: 30 May 2025 17:25

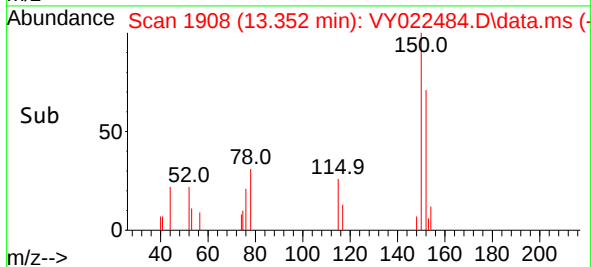
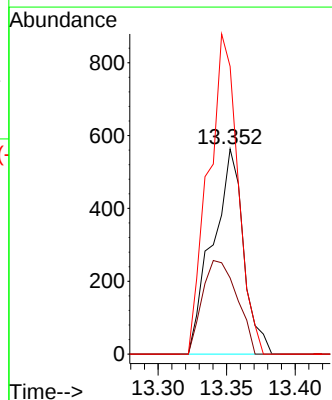
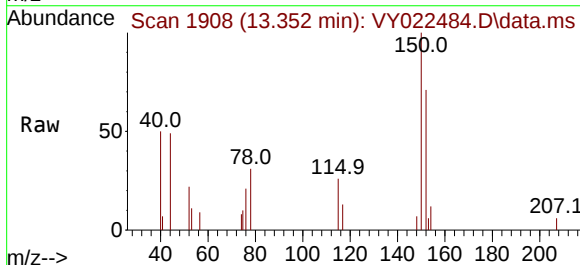
Instrument :
MSVOA_Y
ClientSampleId :
B27-SOIL-SAMPLE

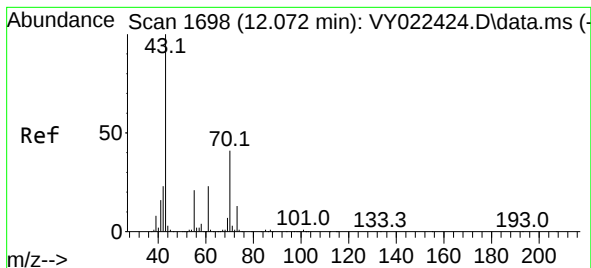
Tgt Ion:173 Resp: 30
Ion Ratio Lower Upper
173 100
175 0.0 24.3 73.0#
254 0.0 0.1 0.1#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.352 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY022484.D
Acq: 30 May 2025 17:25

Tgt Ion:152 Resp: 883
Ion Ratio Lower Upper
152 100
115 51.2 28.4 85.3
150 149.5 0.0 345.8





#74

N-amy1 acetate

Concen: 2.352 ug/l

RT: 12.054 min Scan# 1

Delta R.T. -0.018 min

Lab File: VY022484.D

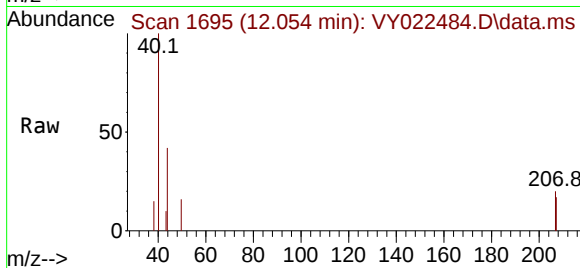
Acq: 30 May 2025 17:25

Instrument :

MSVOA_Y

ClientSampleId :

B27-SOIL-SAMPLE



Tgt Ion: 43 Resp: 40

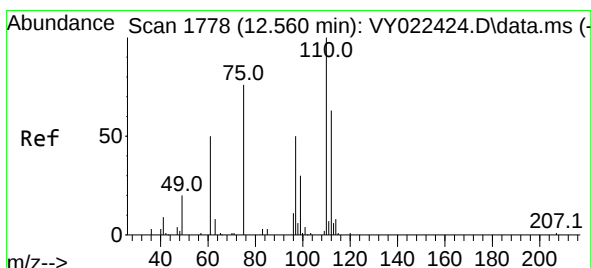
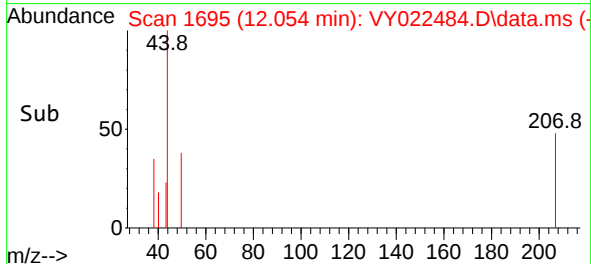
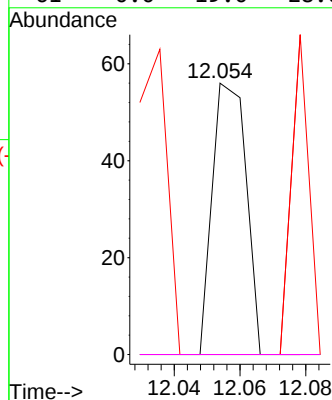
Ion Ratio Lower Upper

43 100

70 0.0 33.0 49.4#

55 105.0 17.5 26.3#

61 0.0 19.0 28.6#



#76

1,2,3-Trichloropropane

Concen: 3.392 ug/l

RT: 12.450 min Scan# 1760

Delta R.T. -0.110 min

Lab File: VY022484.D

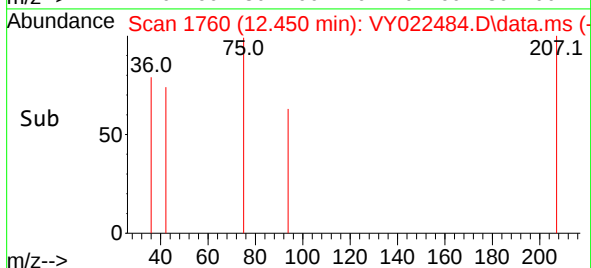
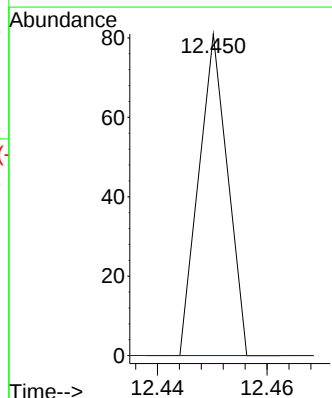
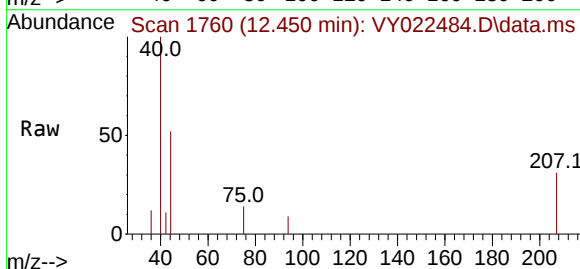
Acq: 30 May 2025 17:25

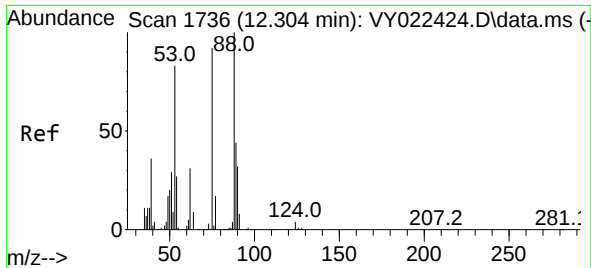
Tgt Ion: 75 Resp: 30

Ion Ratio Lower Upper

75 100

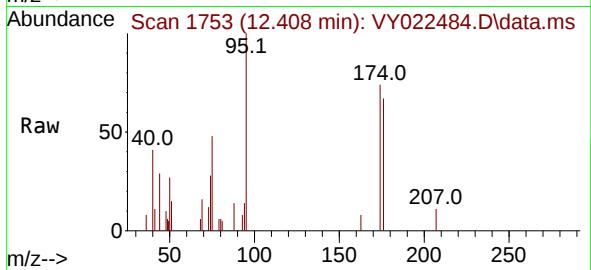
77 0.0 0.0 0.0





#81
 trans-1,4-Dichloro-2-butene
 Concen: 243.412 ug/l
 RT: 12.408 min Scan# 11
 Delta R.T. 0.104 min
 Lab File: VY022484.D
 Acq: 30 May 2025 17:25

Instrument :
 MSVOA_Y
 ClientSampleId :
 B27-SOIL-SAMPLE



Tgt Ion	Ratio	Lower	Upper
75	100		
53	0.0	75.1	112.7#
89	0.0	37.4	56.0#

