

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060225\
 Data File : VX046451.D
 Acq On : 02 Jun 2025 17:56
 Operator : JC/MD
 Sample : Q2161-02ME
 Misc : 5.50g/10mL/100uL/5.00mL/MSVOA_X/MEOH
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 B28-SOIL-SAMPLE

Quant Time: Jun 03 01:35:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 06 07:12:22 2025
 Response via : Initial Calibration

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

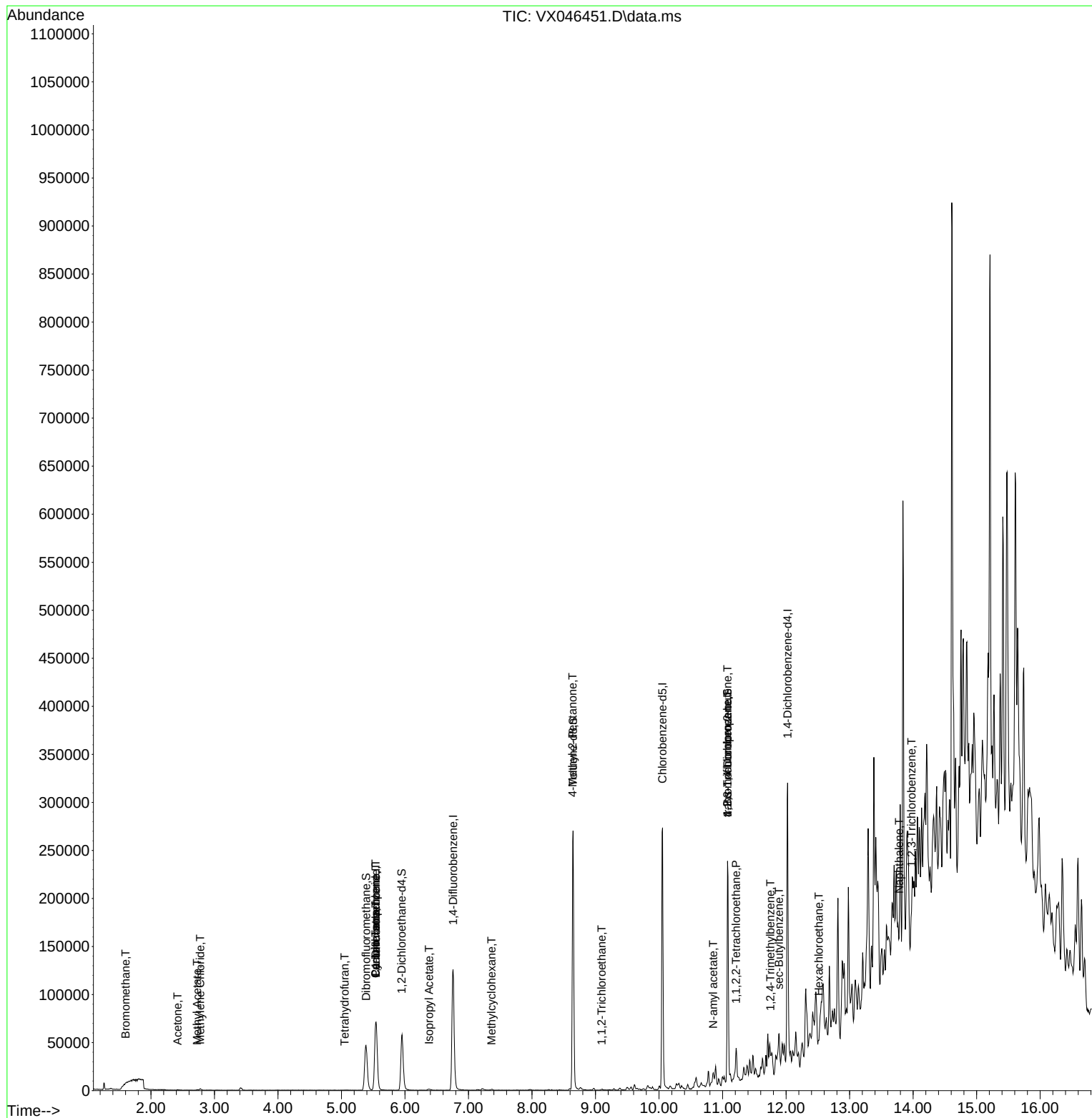
Internal Standards						
1) Pentafluorobenzene	5.544	168	62971	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	124510	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	116885	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	56286	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	58380	49.728	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	99.460%		
35) Dibromofluoromethane	5.385	113	42001	46.845	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	93.680%		
50) Toluene-d8	8.647	98	158324	51.019	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	102.040%		
62) 4-Bromofluorobenzene	11.079	95	64005	53.769	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	107.540%		
Target Compounds						Qvalue
5) Bromomethane	1.599	94	130	0.322	ug/l #	72
16) Acetone	2.416	43	310	0.659	ug/l #	48
18) Methyl Acetate	2.727	43	800	0.732	ug/l #	80
20) Methylene Chloride	2.776	84	775	0.859	ug/l #	66
29) Tetrahydrofuran	5.050	42	137	0.320	ug/l #	35
31) Cyclohexane	5.537	56	1863	1.332	ug/l #	45
36) 1,1-Dichloropropene	5.537	75	6218	5.162	ug/l #	52
38) Carbon Tetrachloride	5.537	117	7584	5.603	ug/l #	16
39) Methylcyclohexane	7.360	83	413	0.266	ug/l #	93
43) Isopropyl Acetate	6.379	43	696	0.307	ug/l #	63
51) 4-Methyl-2-Pentanone	8.641	43	993	0.659	ug/l #	1
55) 1,1,2-Trichloroethane	9.098	97	247	0.290	ug/l #	15
74) N-amyl acetate	10.854	43	1935	0.894	ug/l #	14
75) 1,1,2,2-Tetrachloroethane	11.213	83	2621	1.707	ug/l #	34
76) 1,2,3-Trichloropropane	11.079	75	36071	26.624	ug/l #	37
81) trans-1,4-Dichloro-2-b...	11.079	75	36071	86.679	ug/l #	1
84) 1,2,4-Trimethylbenzene	11.756	105	958	0.258	ug/l	99
85) sec-Butylbenzene	11.890	105	966	0.213	ug/l	93
90) Hexachloroethane	12.518	117	281	0.427	ug/l	84
95) Naphthalene	13.780	128	7000	1.783	ug/l #	77
96) 1,2,3-Trichlorobenzene	13.975	180	1151	1.042	ug/l #	1

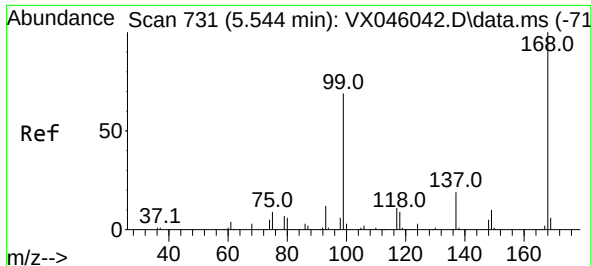
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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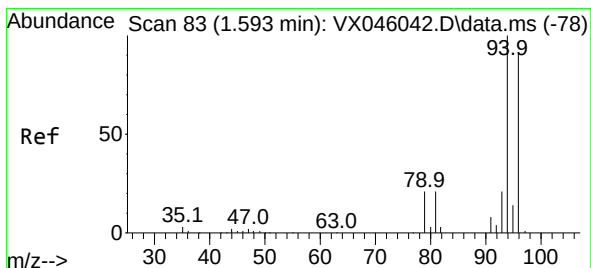
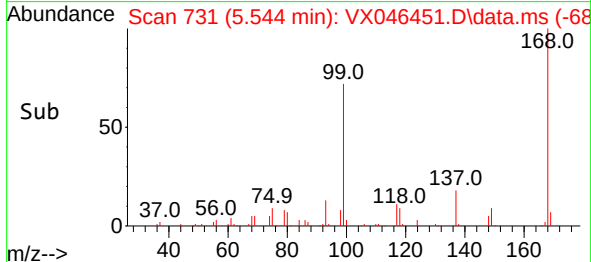
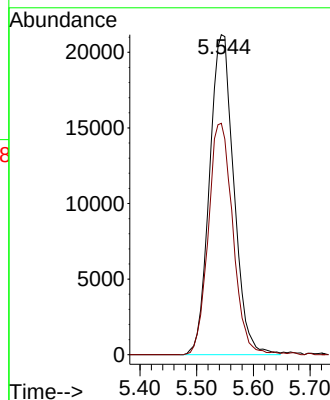
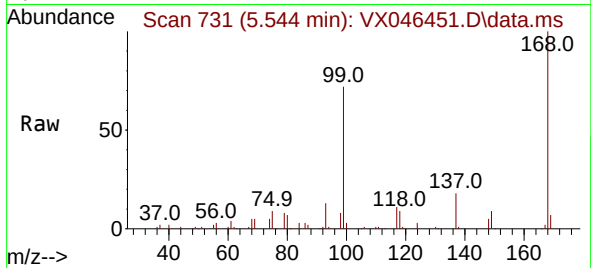




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX046451.D
Acq: 02 Jun 2025 17:56

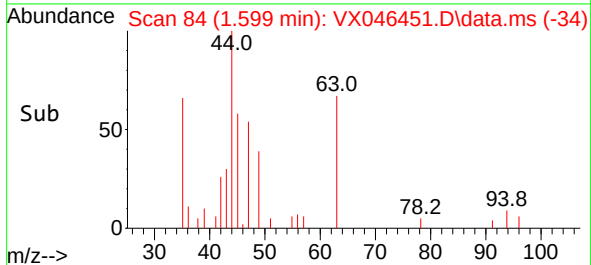
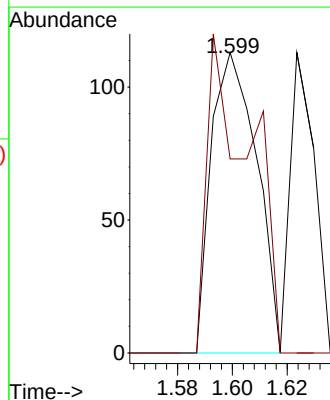
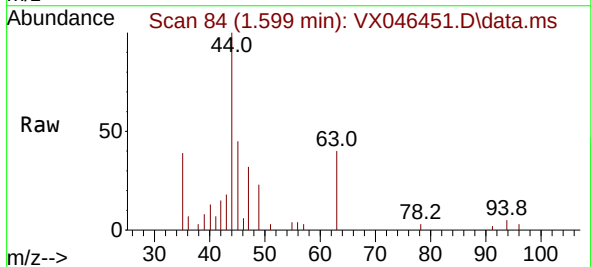
Instrument : MSVOA_X
ClientSampleId : B28-SOIL-SAMPLE

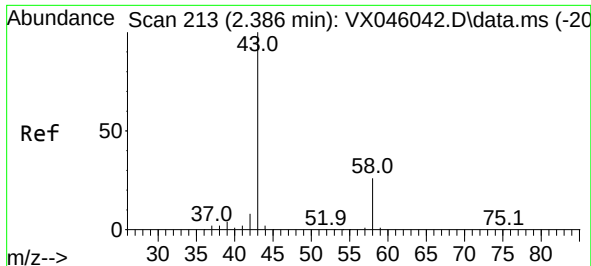
Tgt Ion:168 Resp: 62971
Ion Ratio Lower Upper
168 100
99 72.3 54.9 82.3



#5
Bromomethane
Concen: 0.322 ug/l
RT: 1.599 min Scan# 84
Delta R.T. 0.006 min
Lab File: VX046451.D
Acq: 02 Jun 2025 17:56

Tgt Ion: 94 Resp: 130
Ion Ratio Lower Upper
94 100
96 64.6 72.8 109.2#

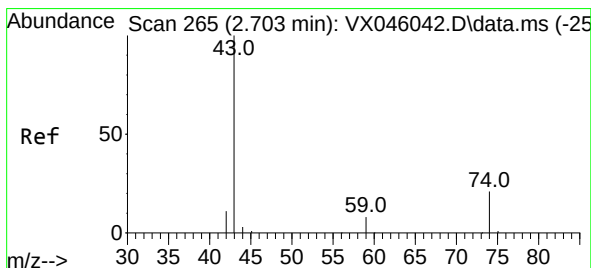
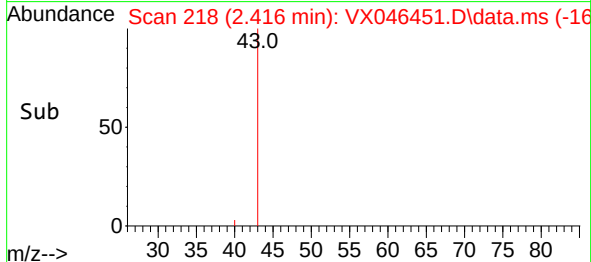
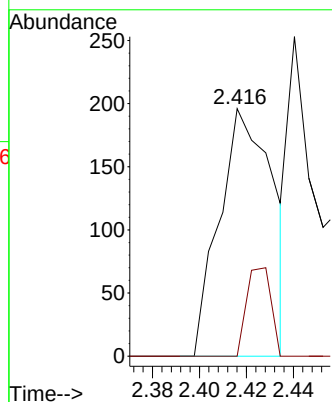
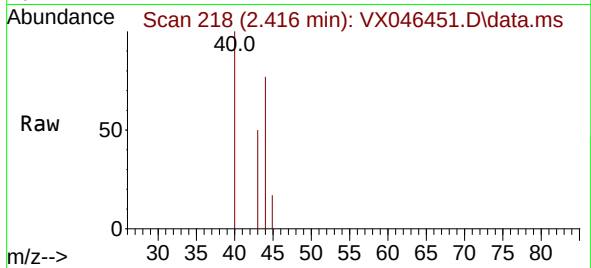




#16
Acetone
Concen: 0.659 ug/l
RT: 2.416 min Scan# 213
Delta R.T. 0.030 min
Lab File: VX046451.D
Acq: 02 Jun 2025 17:56

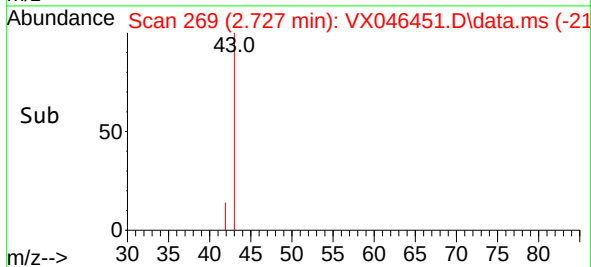
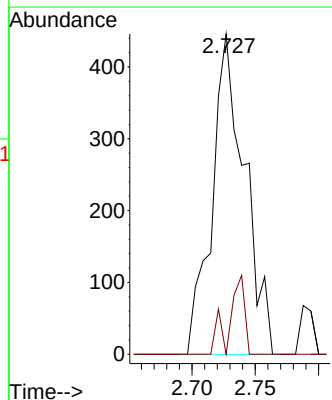
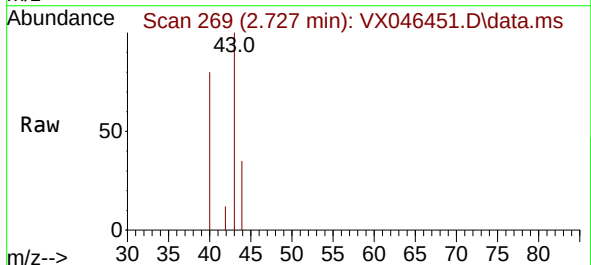
Instrument :
MSVOA_X
ClientSampleId :
B28-SOIL-SAMPLE

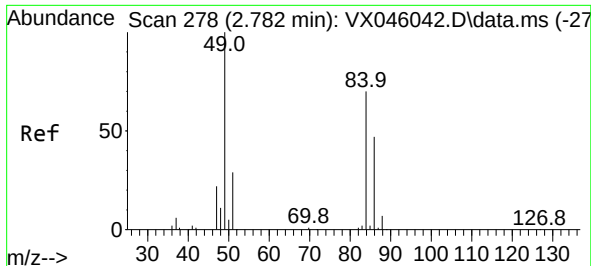
Tgt Ion: 43 Resp: 310
Ion Ratio Lower Upper
43 100
58 0.0 21.2 31.8#



#18
Methyl Acetate
Concen: 0.732 ug/l
RT: 2.727 min Scan# 269
Delta R.T. 0.024 min
Lab File: VX046451.D
Acq: 02 Jun 2025 17:56

Tgt Ion: 43 Resp: 800
Ion Ratio Lower Upper
43 100
74 11.6 16.7 25.1#

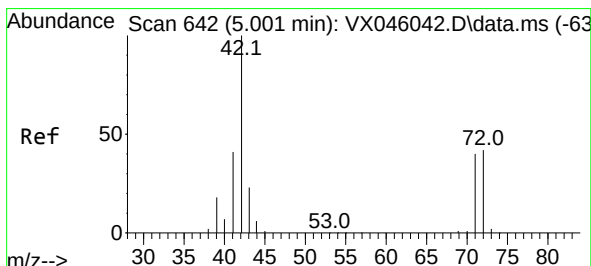
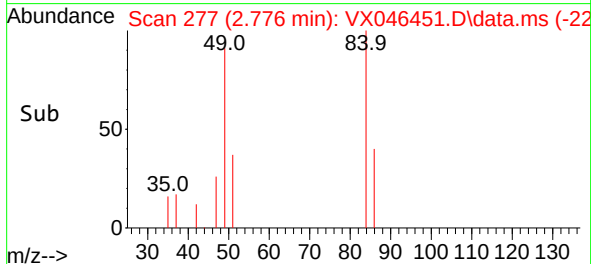
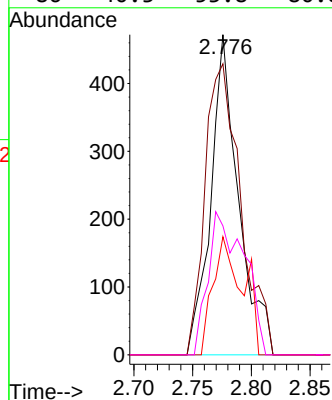
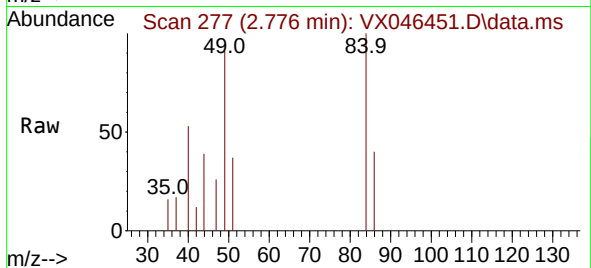




#20
Methylene Chloride
Concen: 0.859 ug/l
RT: 2.776 min Scan# 21
Delta R.T. -0.006 min
Lab File: VX046451.D
Acq: 02 Jun 2025 17:56

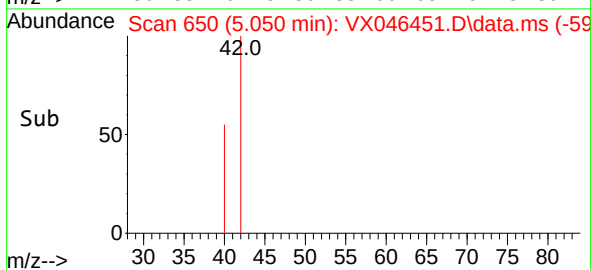
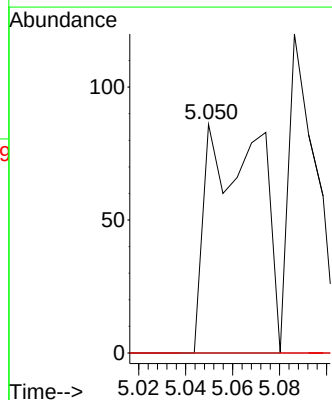
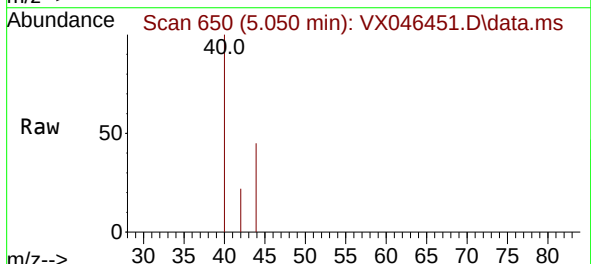
Instrument :
MSVOA_X
ClientSampleId :
B28-SOIL-SAMPLE

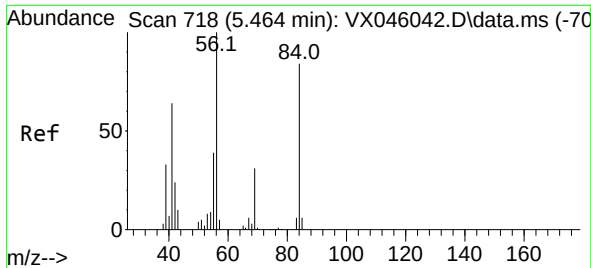
Tgt Ion:	84	Resp:	775
Ion	Ratio	Lower	Upper
84	100		
49	90.9	113.9	170.9#
51	36.9	33.5	50.3
86	40.3	53.8	80.8#



#29
Tetrahydrofuran
Concen: 0.320 ug/l
RT: 5.050 min Scan# 650
Delta R.T. 0.049 min
Lab File: VX046451.D
Acq: 02 Jun 2025 17:56

Tgt Ion:	42	Resp:	137
Ion	Ratio	Lower	Upper
42	100		
72	0.0	33.7	50.5#
71	0.0	31.4	47.2#

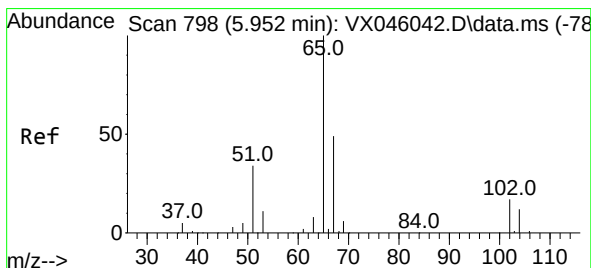
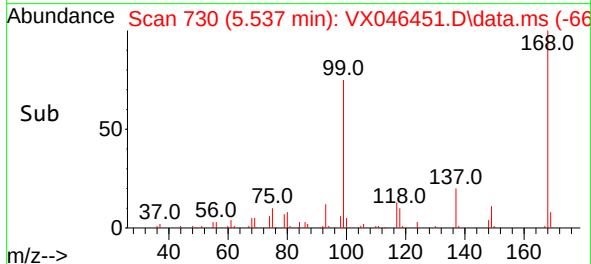
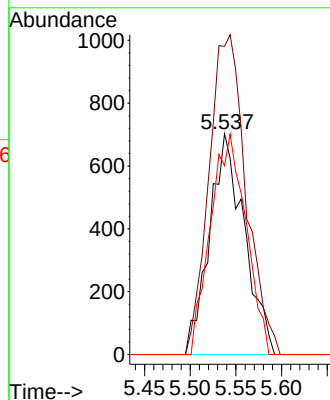
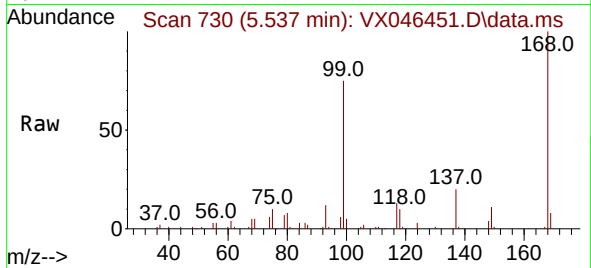




#31
Cyclohexane
Concen: 1.332 ug/l
RT: 5.537 min Scan# 718
Delta R.T. 0.073 min
Lab File: VX046451.D
Acq: 02 Jun 2025 17:56

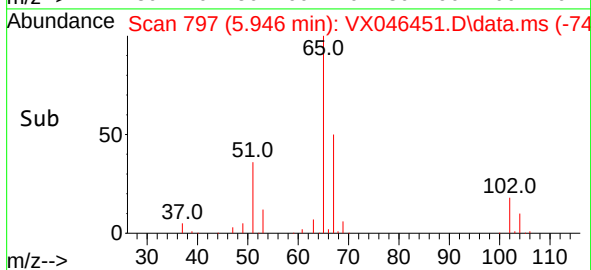
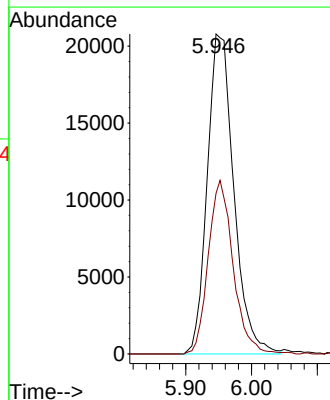
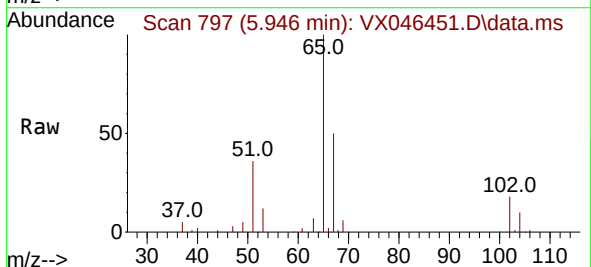
Instrument :
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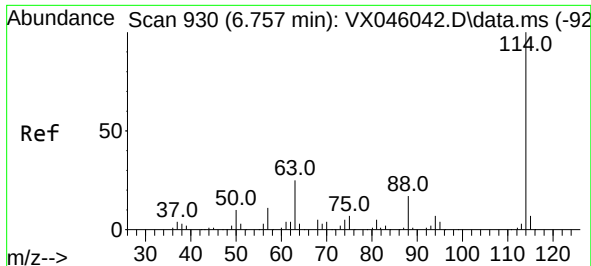
Tgt Ion: 56 Resp: 1863
Ion Ratio Lower Upper
56 100
69 139.5 24.4 36.6#
84 85.5 66.9 100.3



#33
1,2-Dichloroethane-d4
Concen: 49.728 ug/l
RT: 5.946 min Scan# 797
Delta R.T. -0.006 min
Lab File: VX046451.D
Acq: 02 Jun 2025 17:56

Tgt Ion: 65 Resp: 58380
Ion Ratio Lower Upper
65 100
67 51.0 0.0 99.0

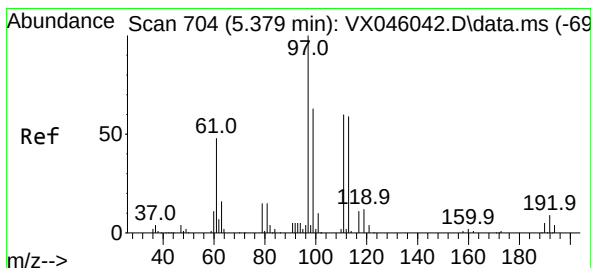
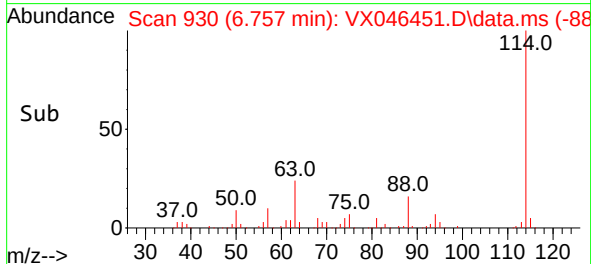
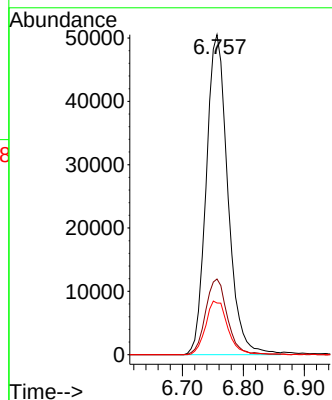
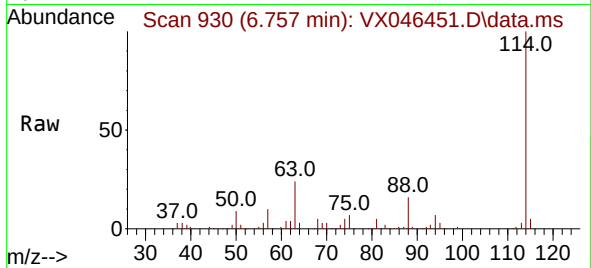




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 91
Delta R.T. -0.000 min
Lab File: VX046451.D
Acq: 02 Jun 2025 17:56

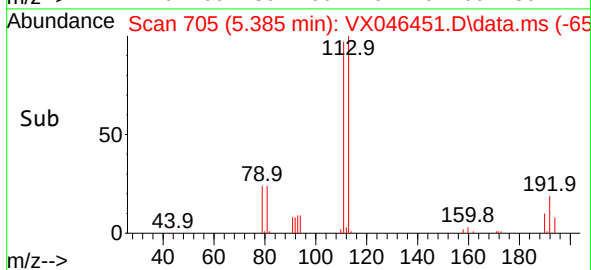
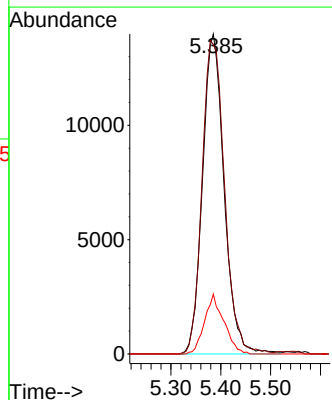
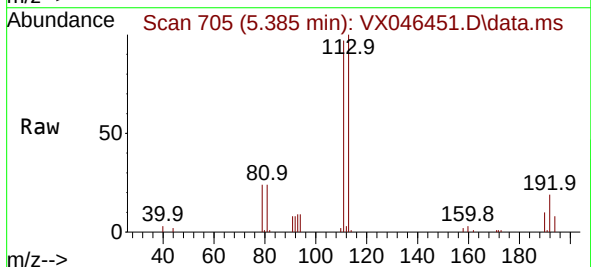
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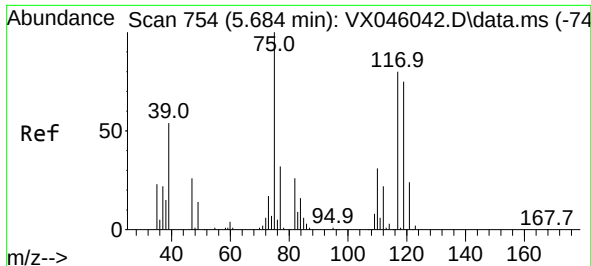
Tgt Ion:114 Resp: 124510
Ion Ratio Lower Upper
114 100
63 23.7 0.0 49.2
88 16.2 0.0 33.6



#35
Dibromofluoromethane
Concen: 46.845 ug/l
RT: 5.385 min Scan# 705
Delta R.T. 0.006 min
Lab File: VX046451.D
Acq: 02 Jun 2025 17:56

Tgt Ion:113 Resp: 42001
Ion Ratio Lower Upper
113 100
111 102.3 83.1 124.7
192 16.7 13.3 19.9

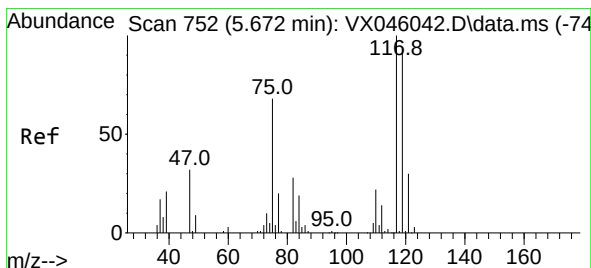
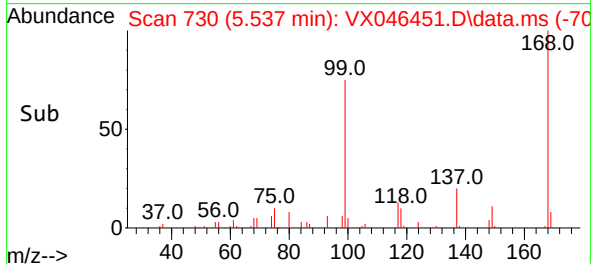
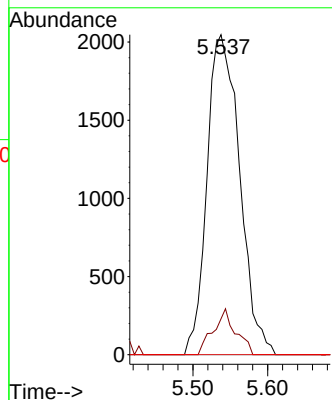
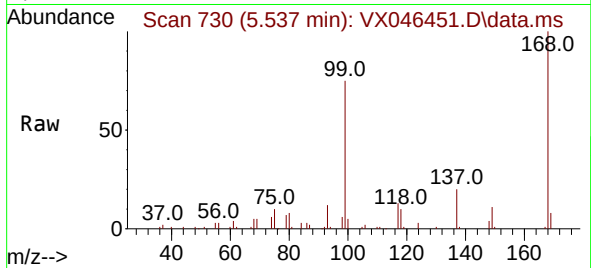




#36
1,1-Dichloropropene
Concen: 5.162 ug/l
RT: 5.537 min Scan# 71
Delta R.T. -0.147 min
Lab File: VX046451.D
Acq: 02 Jun 2025 17:56

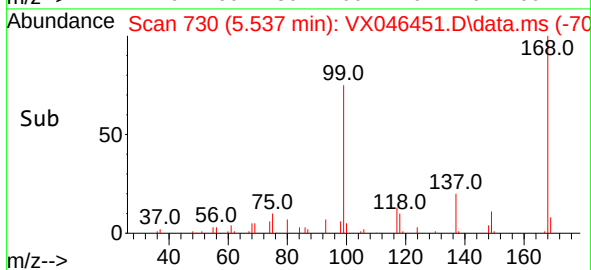
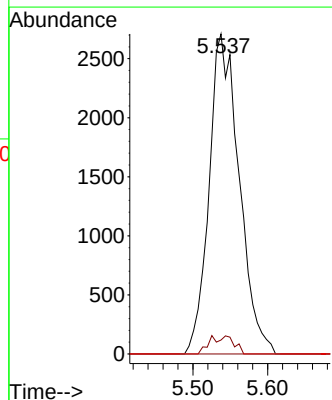
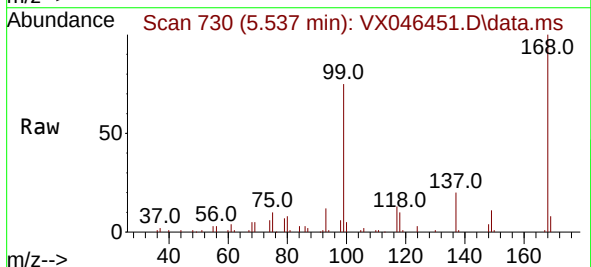
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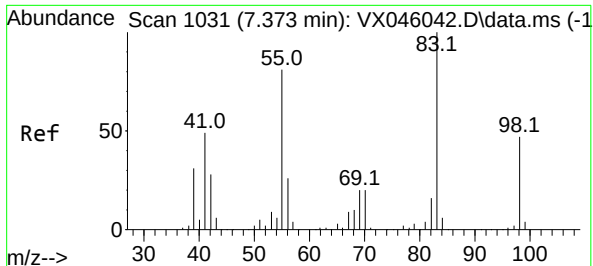
Tgt Ion: 75 Resp: 6218
Ion Ratio Lower Upper
75 100
110 9.8 16.3 48.9#
77 0.0 24.3 36.5#



#38
Carbon Tetrachloride
Concen: 5.603 ug/l
RT: 5.537 min Scan# 730
Delta R.T. -0.134 min
Lab File: VX046451.D
Acq: 02 Jun 2025 17:56

Tgt Ion: 117 Resp: 7584
Ion Ratio Lower Upper
117 100
119 4.4 75.2 112.8#
121 0.0 24.2 36.4#





#39

Methylcyclohexane

Concen: 0.266 ug/l

RT: 7.360 min Scan# 1031

Delta R.T. -0.012 min

Lab File: VX046451.D

Acq: 02 Jun 2025 17:56

Instrument :

MSVOA_X

ClientSampleId :

B28-SOIL-SAMPLE

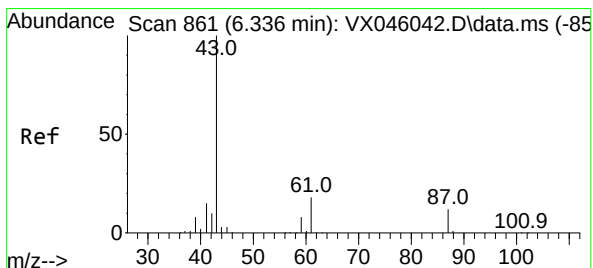
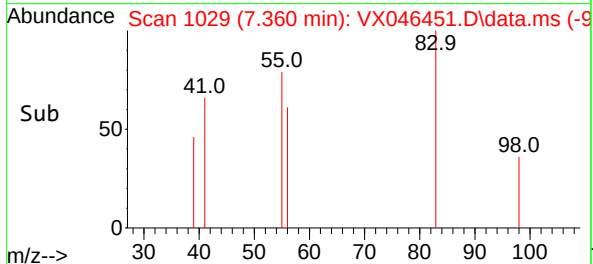
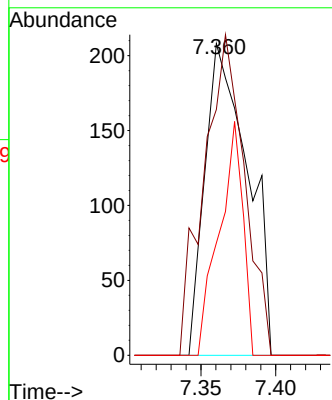
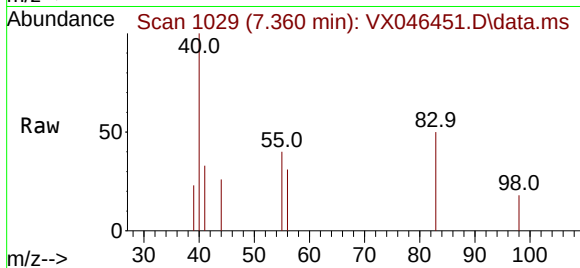
Tgt Ion: 83 Resp: 413

Ion Ratio Lower Upper

83 100

55 78.8 64.7 97.1

98 36.1 37.4 56.2#



#43

Isopropyl Acetate

Concen: 0.307 ug/l

RT: 6.379 min Scan# 868

Delta R.T. 0.042 min

Lab File: VX046451.D

Acq: 02 Jun 2025 17:56

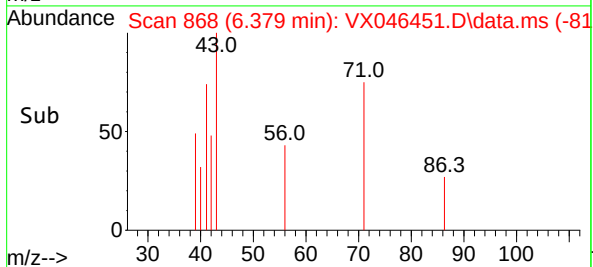
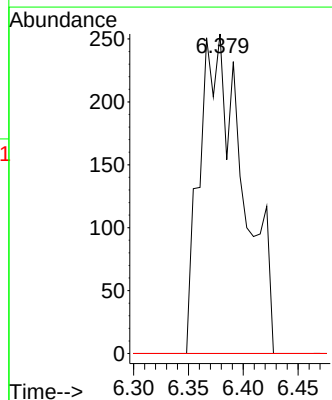
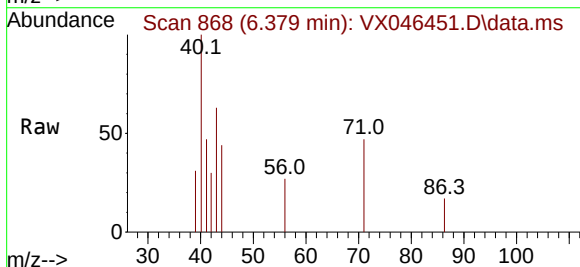
Tgt Ion: 43 Resp: 696

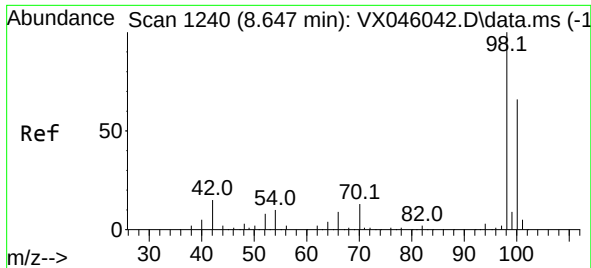
Ion Ratio Lower Upper

43 100

61 0.0 14.3 21.5#

87 0.0 9.5 14.3#

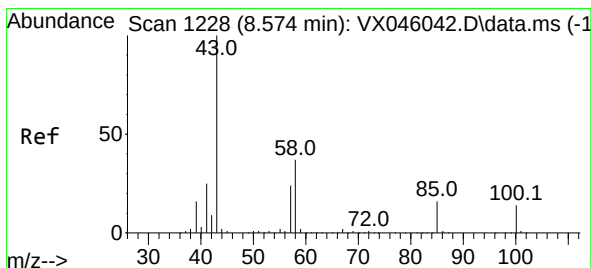
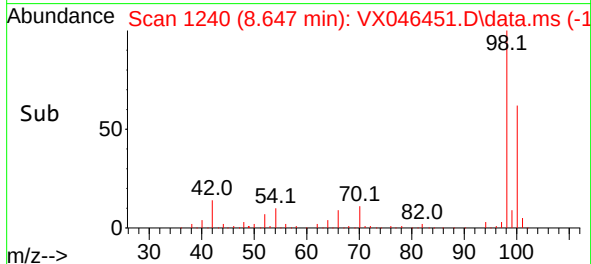
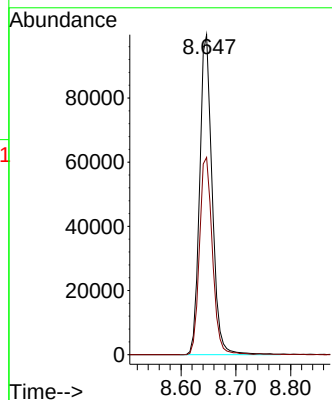
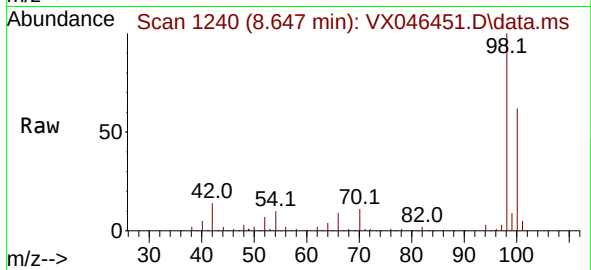




#50
Toluene-d8
Concen: 51.019 ug/l
RT: 8.647 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX046451.D
Acq: 02 Jun 2025 17:56

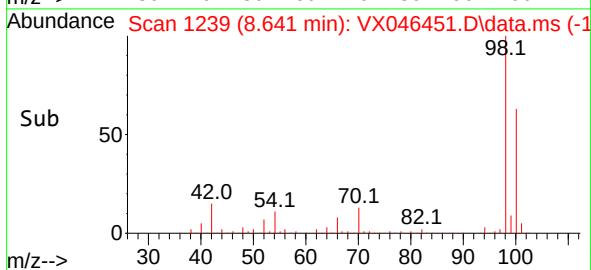
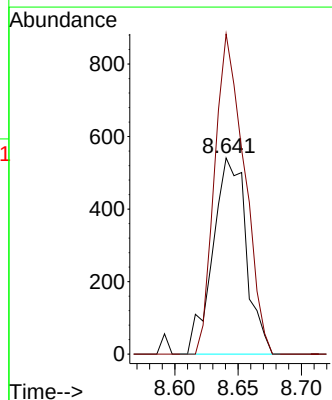
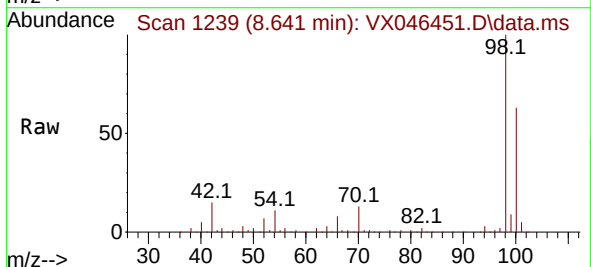
Instrument :
MSVOA_X
ClientSampleId :
B28-SOIL-SAMPLE

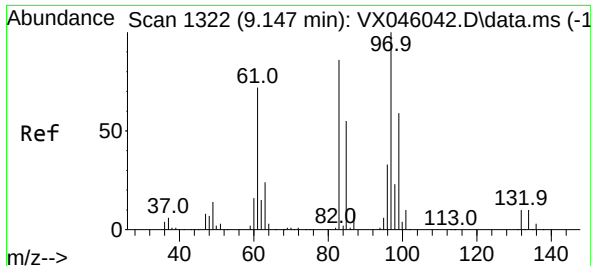
Tgt Ion: 98 Resp: 158324
Ion Ratio Lower Upper
98 100
100 63.7 53.5 80.3



#51
4-Methyl-2-Pentanone
Concen: 0.659 ug/l
RT: 8.641 min Scan# 1239
Delta R.T. 0.067 min
Lab File: VX046451.D
Acq: 02 Jun 2025 17:56

Tgt Ion: 43 Resp: 993
Ion Ratio Lower Upper
43 100
58 145.1 28.9 43.3#





#55

1,1,2-Trichloroethane

Concen: 0.290 ug/l

RT: 9.098 min Scan# 11

Delta R.T. -0.049 min

Lab File: VX046451.D

Acq: 02 Jun 2025 17:56

Instrument :

MSVOA_X

ClientSampleId :

B28-SOIL-SAMPLE

Tgt Ion: 97 Resp: 247

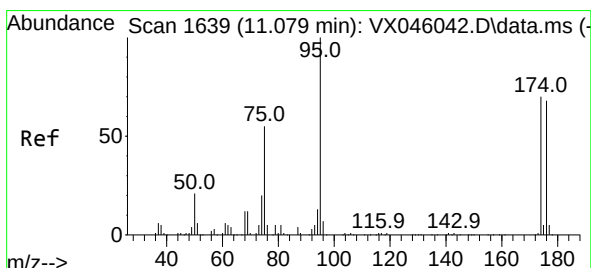
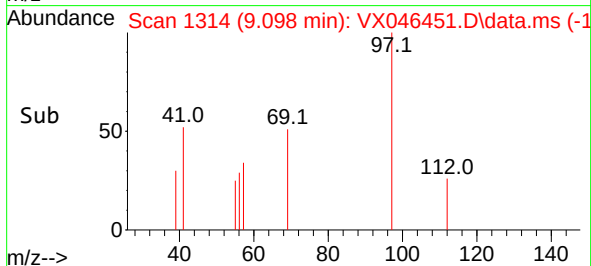
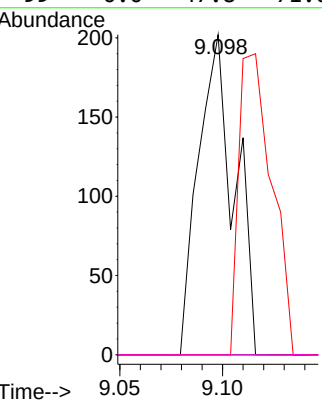
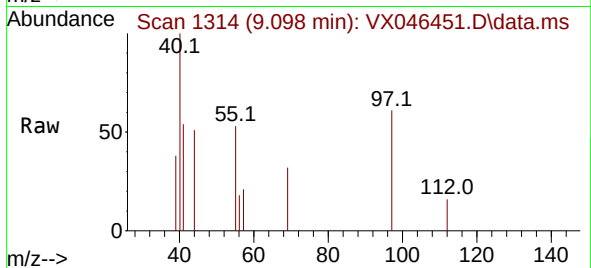
Ion Ratio Lower Upper

97 100

83 0.0 69.0 103.6#

85 0.0 44.3 66.5#

99 0.0 47.8 71.6#



#62

4-Bromofluorobenzene

Concen: 53.769 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.000 min

Lab File: VX046451.D

Acq: 02 Jun 2025 17:56

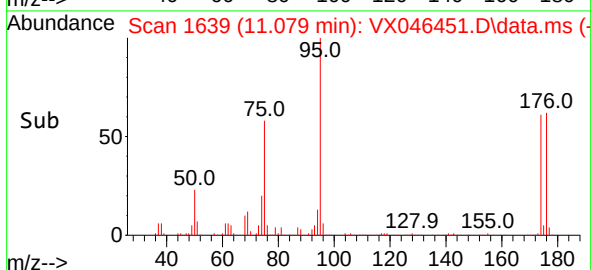
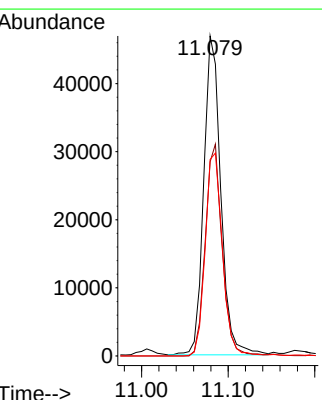
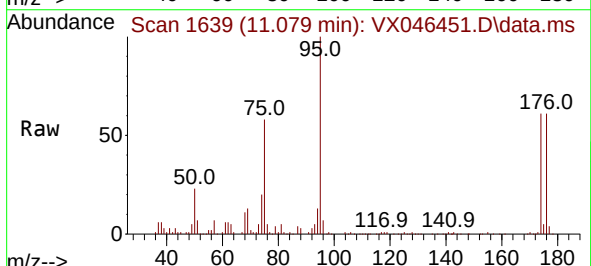
Tgt Ion: 95 Resp: 64005

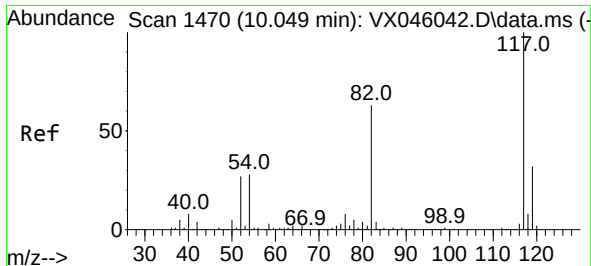
Ion Ratio Lower Upper

95 100

174 65.9 0.0 135.8

176 64.2 0.0 131.4

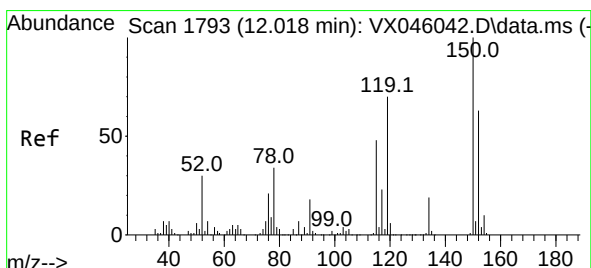
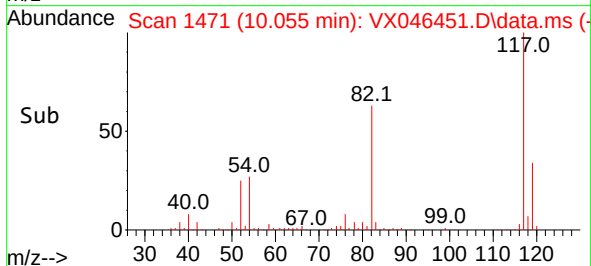
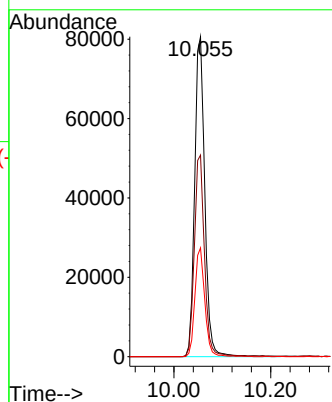
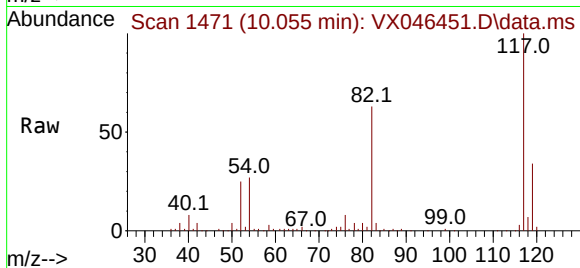




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1470
Delta R.T. 0.006 min
Lab File: VX046451.D
Acq: 02 Jun 2025 17:56

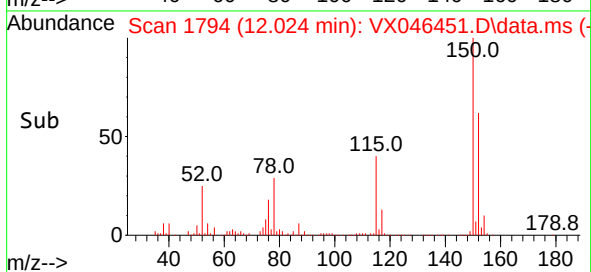
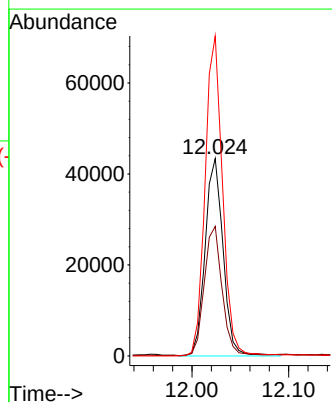
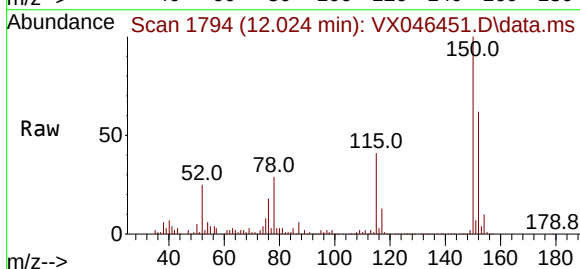
Instrument :
MSVOA_X
ClientSampleId :
B28-SOIL-SAMPLE

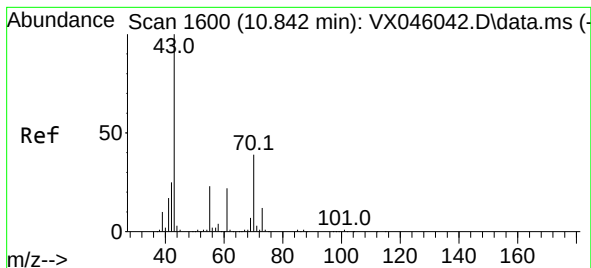
Tgt Ion:117 Resp: 116885
Ion Ratio Lower Upper
117 100
82 63.0 50.6 76.0
119 34.0 25.8 38.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.006 min
Lab File: VX046451.D
Acq: 02 Jun 2025 17:56

Tgt Ion:152 Resp: 56286
Ion Ratio Lower Upper
152 100
115 64.5 46.9 140.7
150 156.8 0.0 351.0





#74

N-amy1 acetate

Concen: 0.894 ug/l

RT: 10.854 min Scan# 1

Delta R.T. 0.012 min

Lab File: VX046451.D

Acq: 02 Jun 2025 17:56

Instrument :

MSVOA_X

ClientSampleId :

B28-SOIL-SAMPLE

Tgt Ion: 43 Resp: 1935

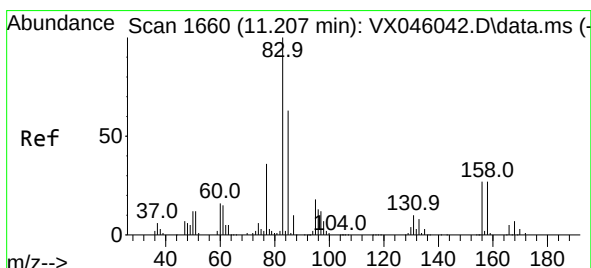
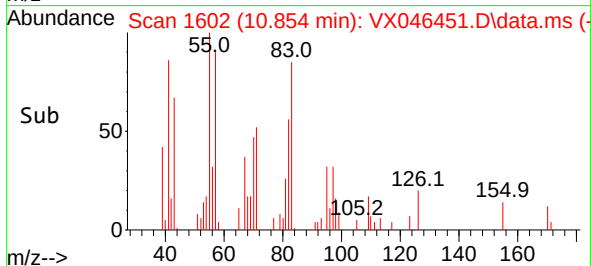
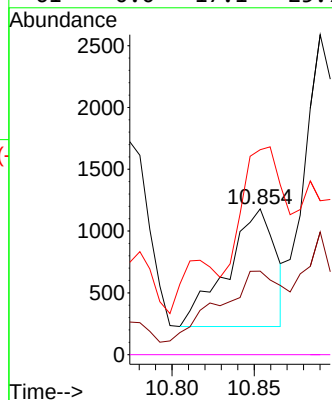
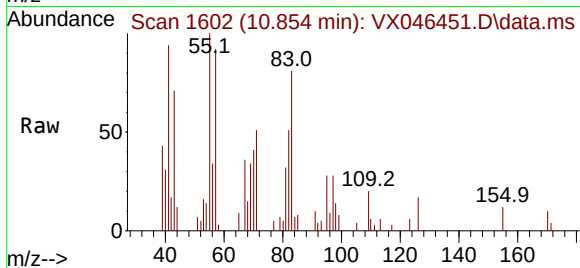
Ion Ratio Lower Upper

43 100

70 83.6 30.9 46.3#

55 93.5 18.7 28.1#

61 0.0 17.1 25.7#



#75

1,1,2,2-Tetrachloroethane

Concen: 1.707 ug/l

RT: 11.213 min Scan# 1661

Delta R.T. 0.006 min

Lab File: VX046451.D

Acq: 02 Jun 2025 17:56

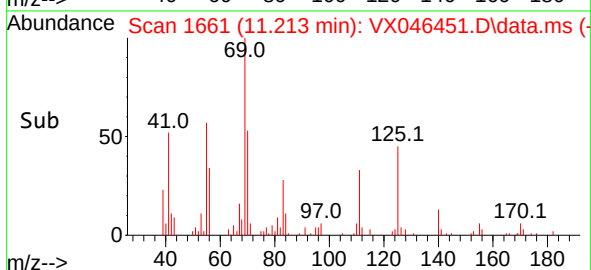
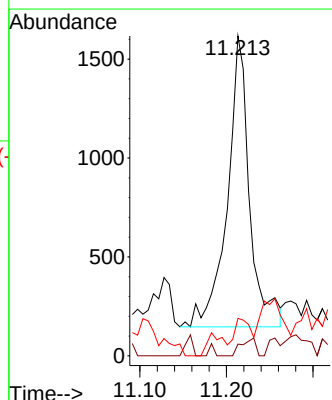
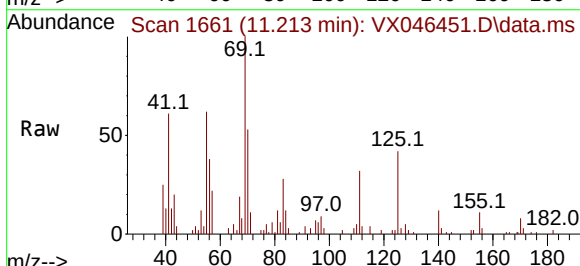
Tgt Ion: 83 Resp: 2621

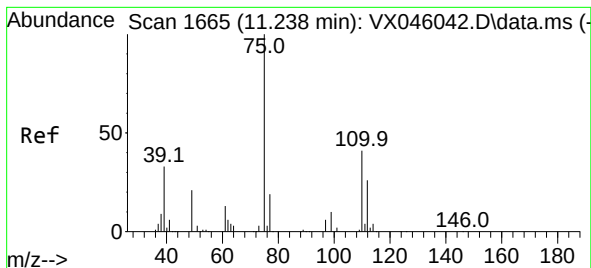
Ion Ratio Lower Upper

83 100

131 3.9 5.0 14.9#

85 6.0 31.9 95.7#





#76

1,2,3-Trichloropropane

Concen: 26.624 ug/l

RT: 11.079 min Scan# 1

Delta R.T. -0.159 min

Lab File: VX046451.D

Acq: 02 Jun 2025 17:56

Instrument :

MSVOA_X

ClientSampleId :

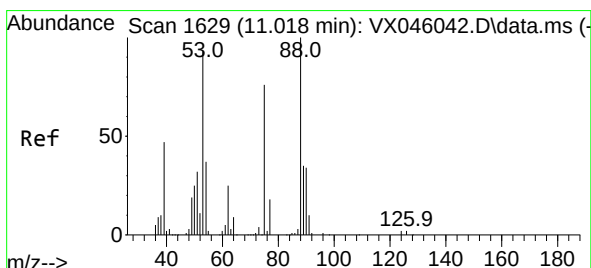
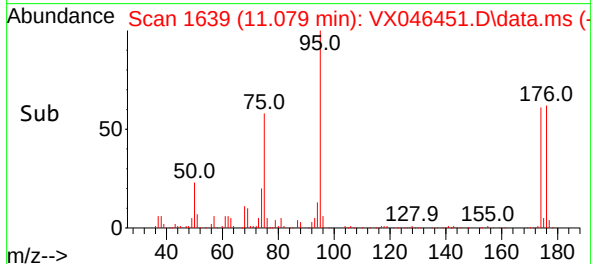
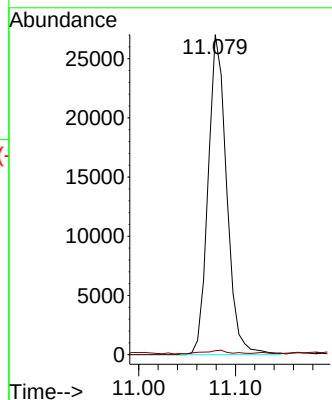
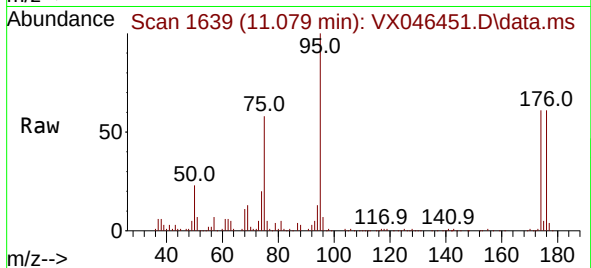
B28-SOIL-SAMPLE

Tgt Ion: 75 Resp: 36071

Ion Ratio Lower Upper

75 100

77 1.4 20.5 61.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 86.679 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX046451.D

Acq: 02 Jun 2025 17:56

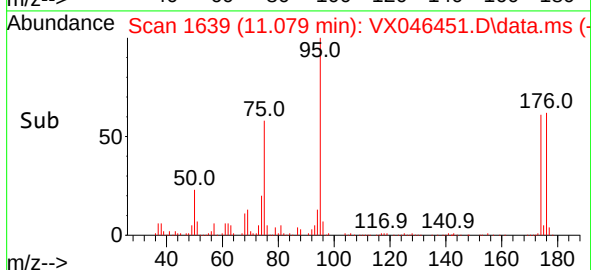
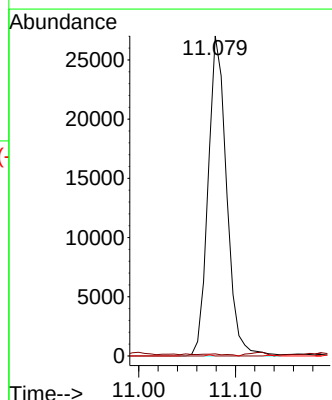
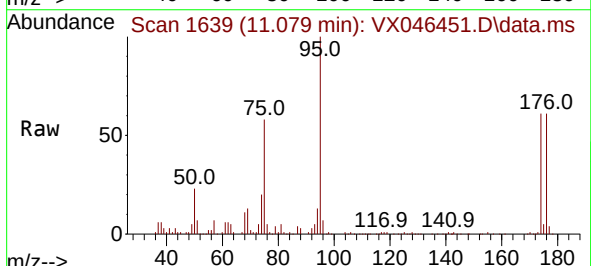
Tgt Ion: 75 Resp: 36071

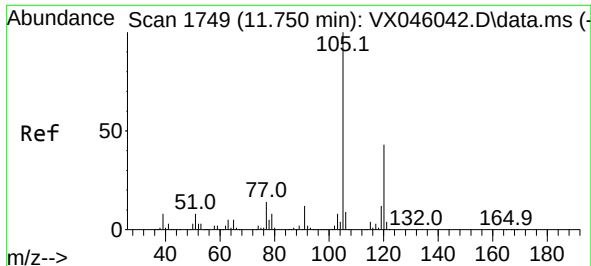
Ion Ratio Lower Upper

75 100

53 0.8 100.5 150.7#

89 0.1 37.0 55.6#

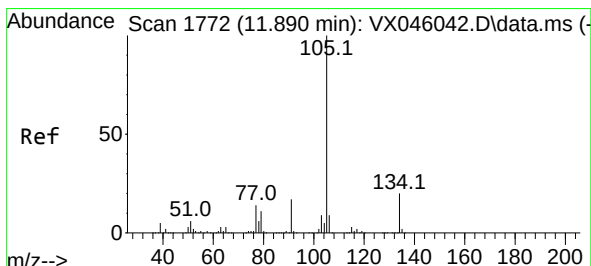
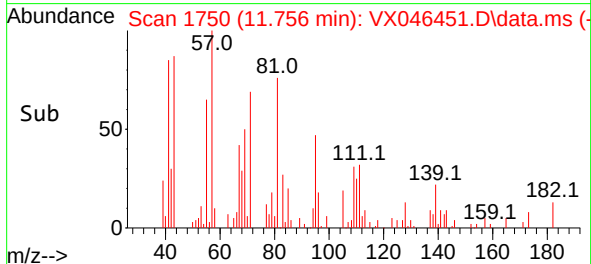
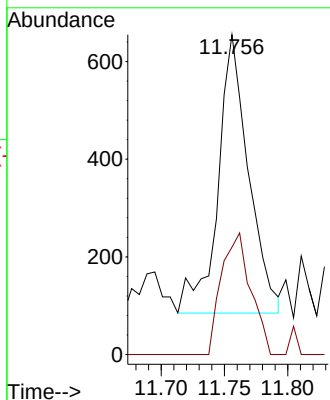
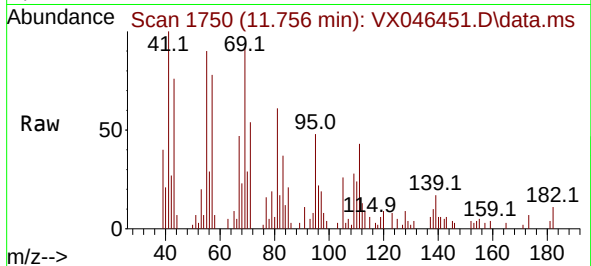




#84
1,2,4-Trimethylbenzene
Concen: 0.258 ug/l
RT: 11.756 min Scan# 1750
Delta R.T. 0.006 min
Lab File: VX046451.D
Acq: 02 Jun 2025 17:56

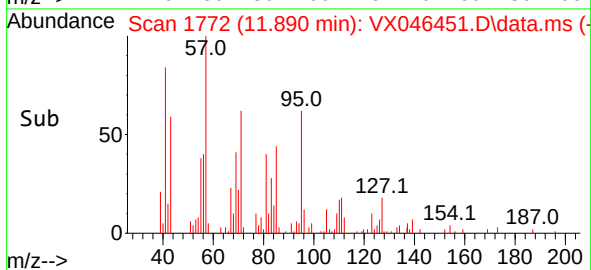
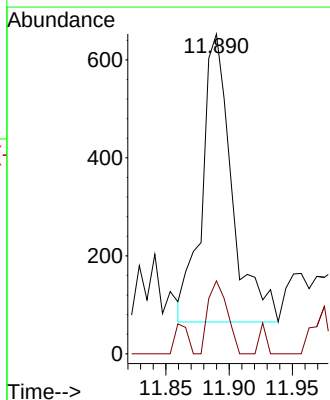
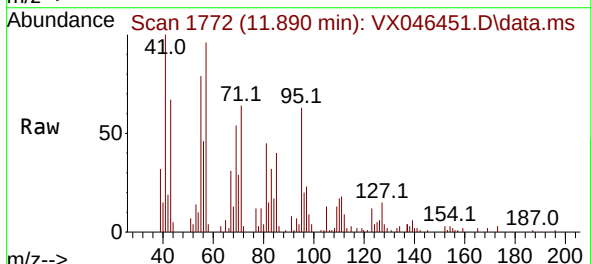
Instrument :
MSVOA_X
ClientSampleId :
B28-SOIL-SAMPLE

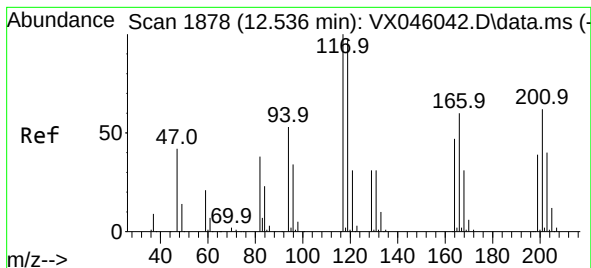
Tgt Ion:105 Resp: 958
Ion Ratio Lower Upper
105 100
120 41.9 21.2 63.6



#85
sec-Butylbenzene
Concen: 0.213 ug/l
RT: 11.890 min Scan# 1772
Delta R.T. -0.000 min
Lab File: VX046451.D
Acq: 02 Jun 2025 17:56

Tgt Ion:105 Resp: 966
Ion Ratio Lower Upper
105 100
134 16.3 9.7 29.1





#90

Hexachloroethane

Concen: 0.427 ug/l

RT: 12.518 min Scan# 117

Delta R.T. -0.018 min

Lab File: VX046451.D

Acq: 02 Jun 2025 17:56

Instrument :

MSVOA_X

ClientSampleId :

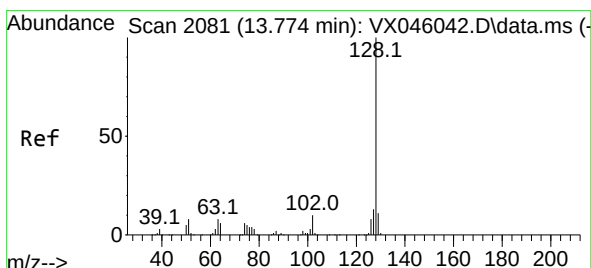
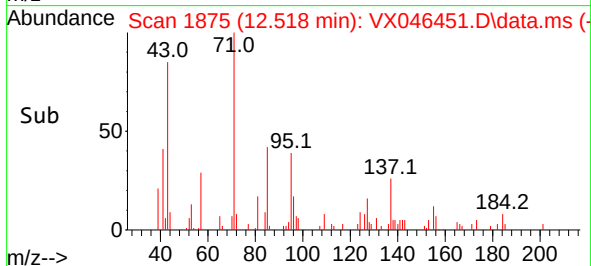
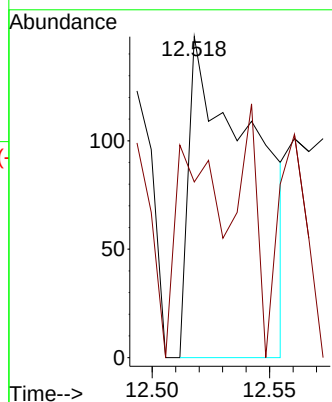
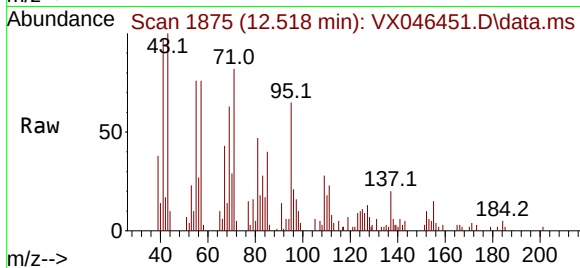
B28-SOIL-SAMPLE

Tgt Ion:117 Resp: 281

Ion Ratio Lower Upper

117 100

201 50.9 31.6 94.7



#95

Naphthalene

Concen: 1.783 ug/l

RT: 13.780 min Scan# 2082

Delta R.T. 0.006 min

Lab File: VX046451.D

Acq: 02 Jun 2025 17:56

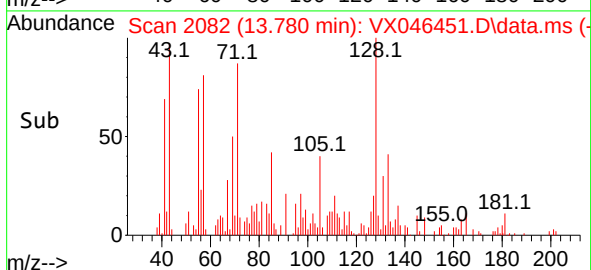
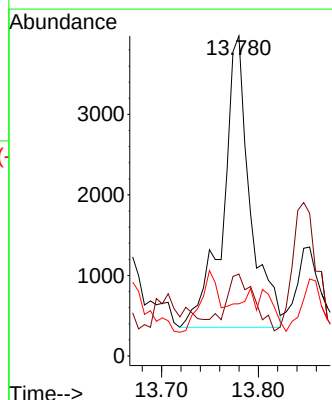
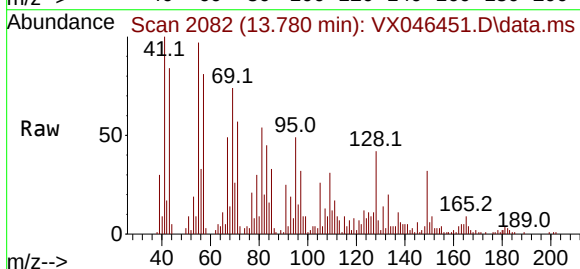
Tgt Ion:128 Resp: 7000

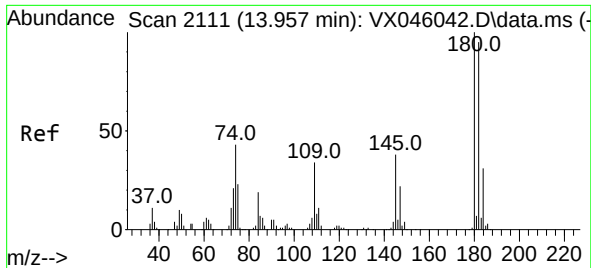
Ion Ratio Lower Upper

128 100

127 20.2 10.4 15.6#

129 0.0 8.6 13.0#





#96
 1,2,3-Trichlorobenzene
 Concen: 1.042 ug/l
 RT: 13.975 min Scan# 2114
 Delta R.T. 0.018 min
 Lab File: VX046451.D
 Acq: 02 Jun 2025 17:56

Instrument :
 MSVOA_X
 ClientSampleId :
 B28-SOIL-SAMPLE

Tgt Ion:180 Resp: 1151
 Ion Ratio Lower Upper
 180 100
 182 30.7 47.8 143.3#
 145 656.7 18.1 54.3#

