

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061225\
 Data File : VX046671.D
 Acq On : 12 Jun 2025 18:02
 Operator : JC/MD
 Sample : Q2285-05RE
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 HAM-CONCRETE

Quant Time: Jun 13 01:47:46 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 06 16:56:12 2025
 Response via : Initial Calibration

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

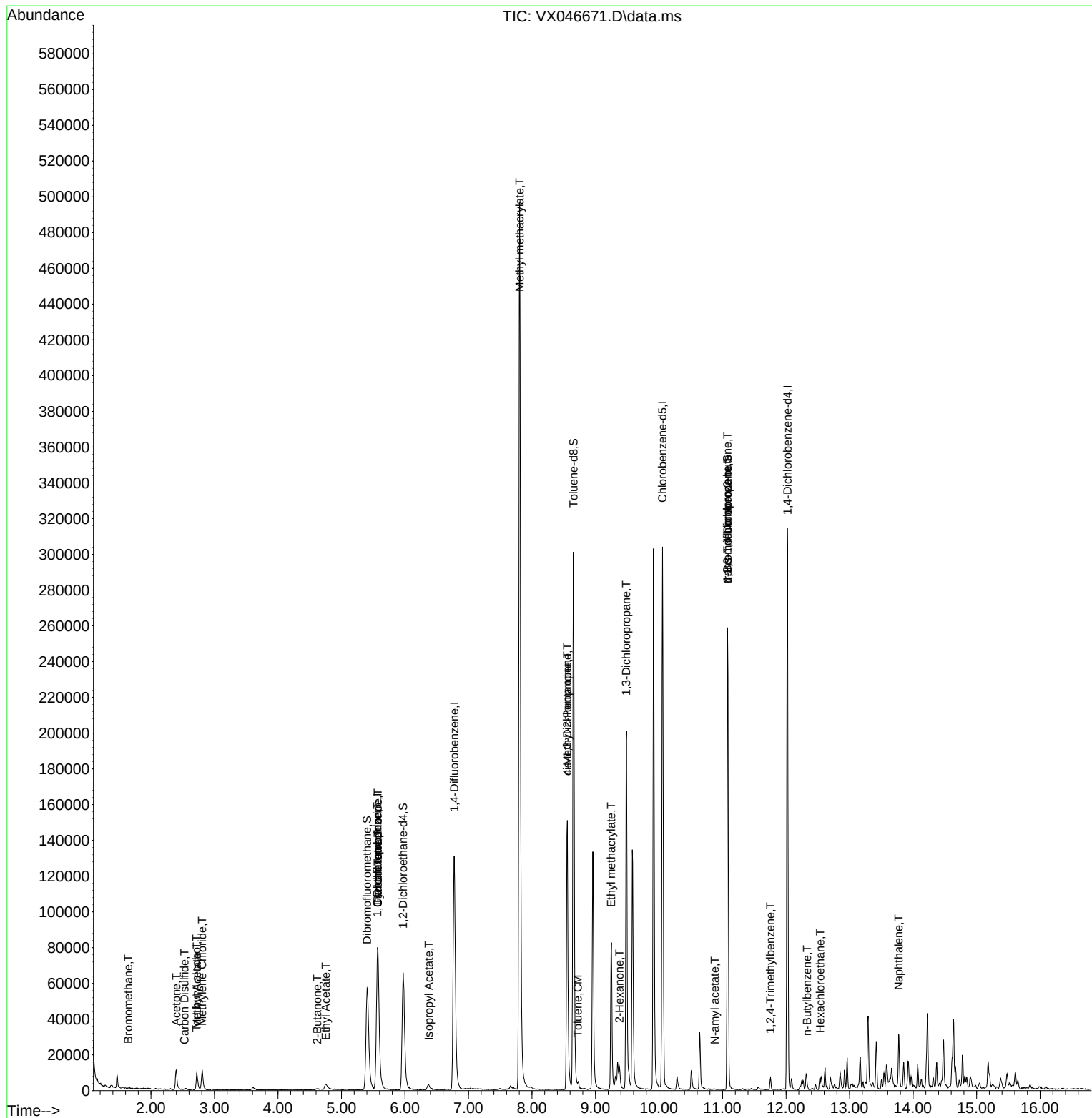
Internal Standards						
1) Pentafluorobenzene	5.568	168	74394	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.775	114	134976	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	126245	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	63815	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.970	65	70258	53.083	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 106.160%			
35) Dibromofluoromethane	5.403	113	54454	54.859	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 109.720%			
50) Toluene-d8	8.653	98	173917	53.145	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 106.280%			
62) 4-Bromofluorobenzene	11.079	95	72141	53.281	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 106.560%			
Target Compounds					Qvalue	
5) Bromomethane	1.642	94	126	0.221	ug/l #	54
11) Tert butyl alcohol	2.715	59	958	6.523	ug/l #	72
16) Acetone	2.398	43	13916	30.877	ug/l	94
17) Carbon Disulfide	2.526	76	292	0.358	ug/l #	76
18) Methyl Acetate	2.721	43	12160	7.713	ug/l	99
20) Methylene Chloride	2.806	84	4934	4.647	ug/l #	82
25) 2-Butanone	4.617	43	1302	1.767	ug/l #	83
31) Cyclohexane	5.574	56	1854	1.205	ug/l #	1
36) 1,1-Dichloropropene	5.562	75	6884	4.855	ug/l #	48
37) Ethyl Acetate	4.751	43	6429	4.646	ug/l	99
38) Carbon Tetrachloride	5.574	117	8750	5.510	ug/l #	16
43) Isopropyl Acetate	6.373	43	4700	1.948	ug/l #	85
48) Methyl methacrylate	7.805	41	49092	39.550	ug/l #	47
51) 4-Methyl-2-Pentanone	8.555	43	56462	36.830	ug/l #	51
52) Toluene	8.720	92	1088	0.444	ug/l	92
54) cis-1,3-Dichloropropene	8.555	75	24724	15.562	ug/l #	59
56) Ethyl methacrylate	9.244	69	305	0.201	ug/l #	1
57) 1,3-Dichloropropane	9.482	76	1761	1.012	ug/l #	42
59) 2-Hexanone	9.378	43	7475	6.799	ug/l #	28
74) N-amyl acetate	10.878	43	449	0.203	ug/l #	53
76) 1,2,3-Trichloropropane	11.079	75	37528	27.764	ug/l #	36
81) trans-1,4-Dichloro-2-b...	11.079	75	37528	80.088	ug/l #	1
84) 1,2,4-Trimethylbenzene	11.756	105	3086	0.730	ug/l	90
89) n-Butylbenzene	12.329	91	1578	0.353	ug/l #	25
90) Hexachloroethane	12.536	117	359	0.443	ug/l #	19
95) Naphthalene	13.774	128	18528	3.924	ug/l	99

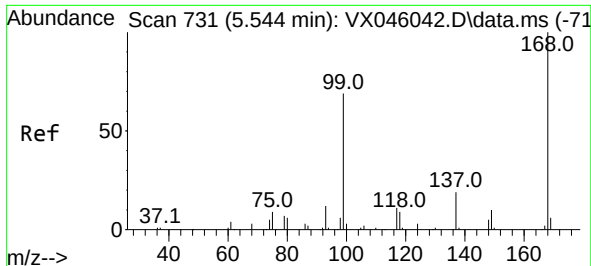
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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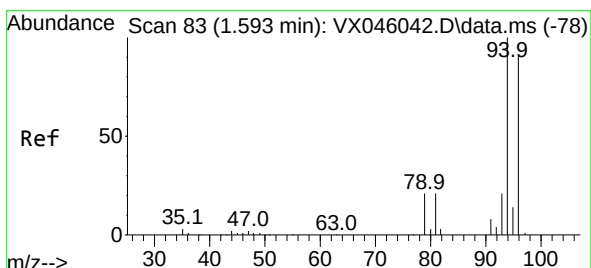
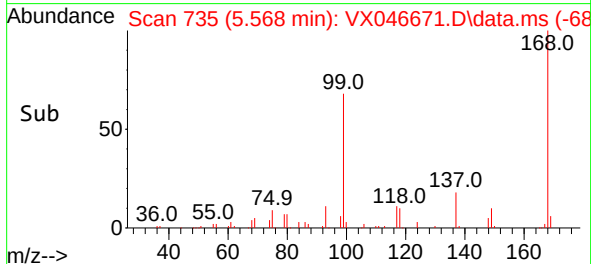
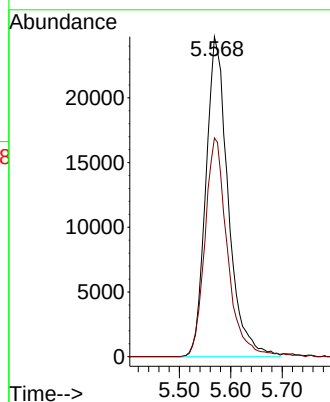
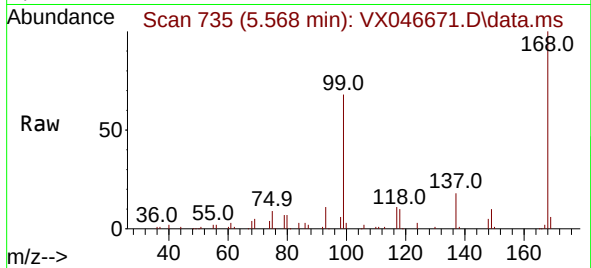




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.568 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX046671.D
Acq: 12 Jun 2025 18:02

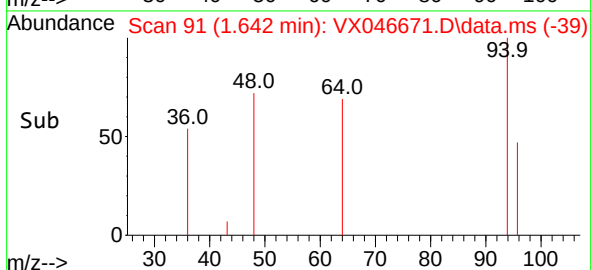
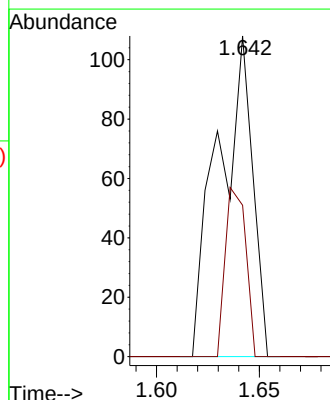
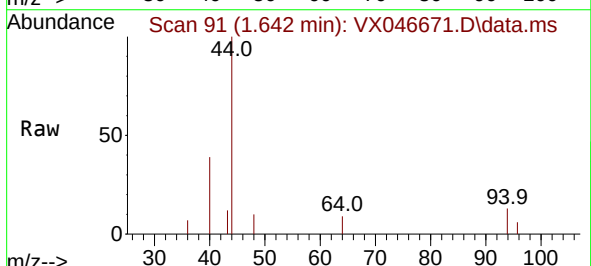
Instrument :
MSVOA_X
ClientSampleId :
HAM-CONCRETE

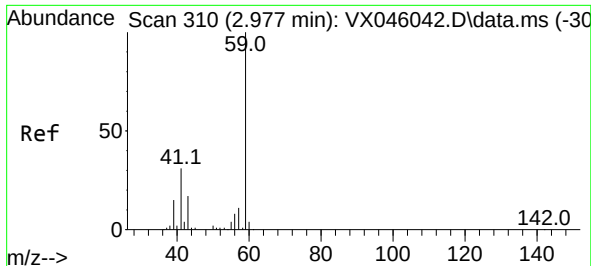
Tgt Ion:168 Resp: 74394
Ion Ratio Lower Upper
168 100
99 68.4 54.9 82.3



#5
Bromomethane
Concen: 0.221 ug/l
RT: 1.642 min Scan# 91
Delta R.T. 0.018 min
Lab File: VX046671.D
Acq: 12 Jun 2025 18:02

Tgt Ion: 94 Resp: 126
Ion Ratio Lower Upper
94 100
96 47.2 72.8 109.2#

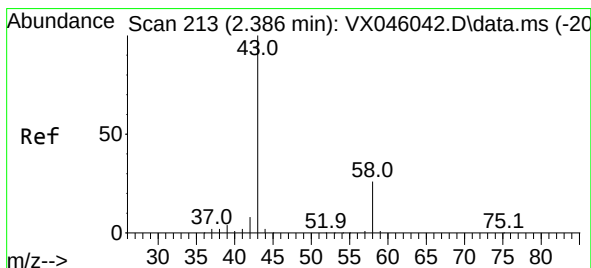
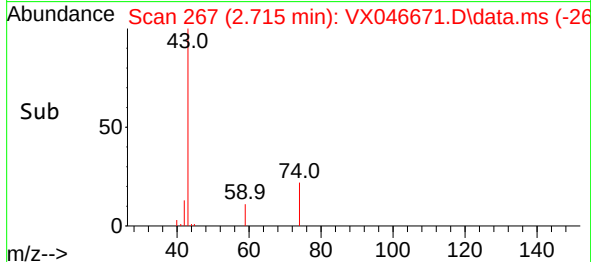
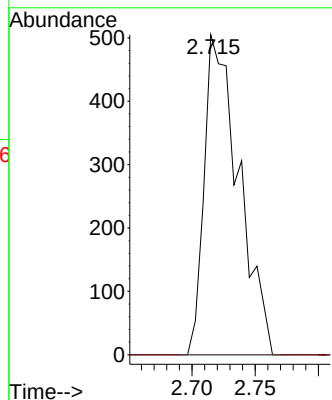
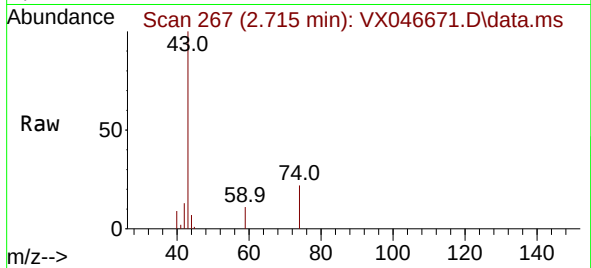




#11
Tert butyl alcohol
Concen: 6.523 ug/l
RT: 2.715 min Scan# 215
Delta R.T. -0.256 min
Lab File: VX046671.D
Acq: 12 Jun 2025 18:02

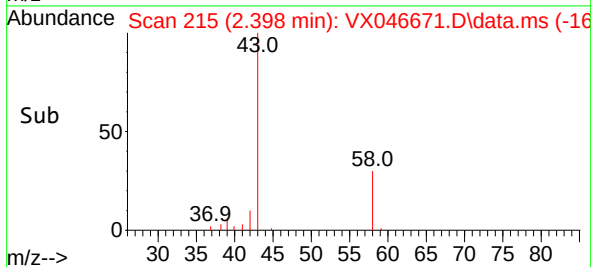
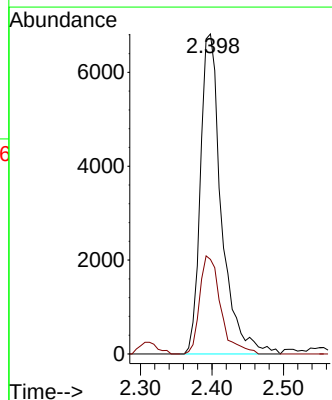
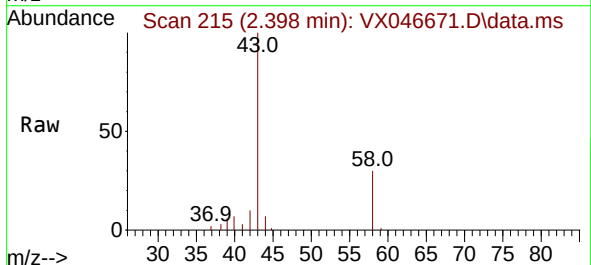
Instrument :
MSVOA_X
ClientSampleId :
HAM-CONCRETE

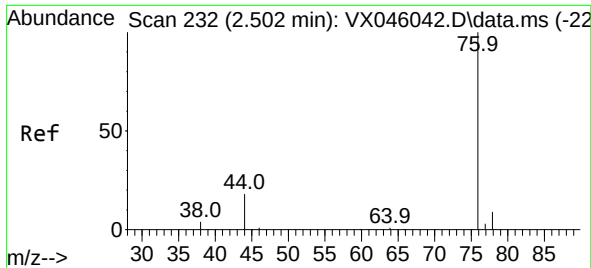
Tgt Ion: 59 Resp: 958
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#



#16
Acetone
Concen: 30.877 ug/l
RT: 2.398 min Scan# 215
Delta R.T. 0.006 min
Lab File: VX046671.D
Acq: 12 Jun 2025 18:02

Tgt Ion: 43 Resp: 13916
Ion Ratio Lower Upper
43 100
58 29.6 21.2 31.8

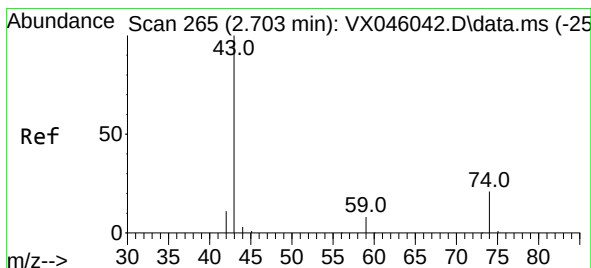
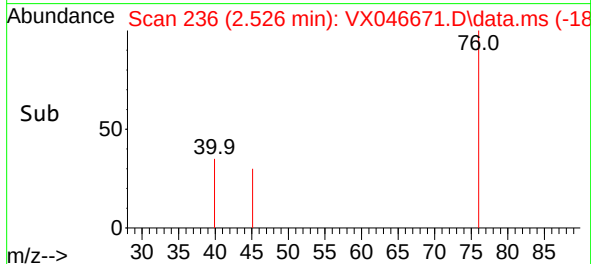
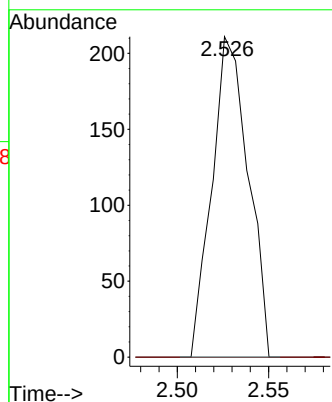
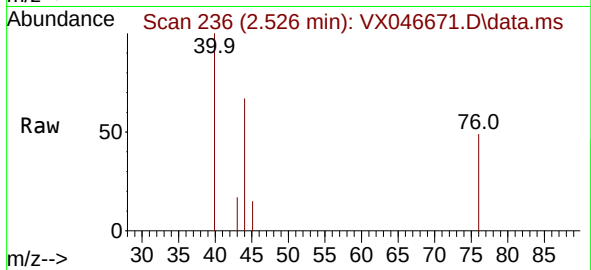




#17
Carbon Disulfide
Concen: 0.358 ug/l
RT: 2.526 min Scan# 211
Delta R.T. -0.006 min
Lab File: VX046671.D
Acq: 12 Jun 2025 18:02

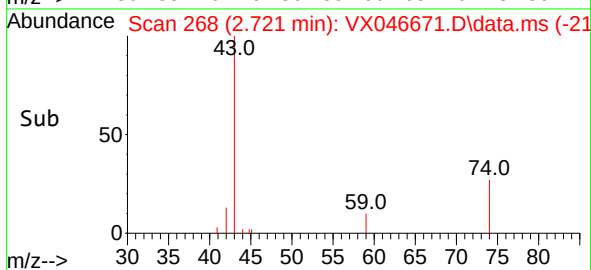
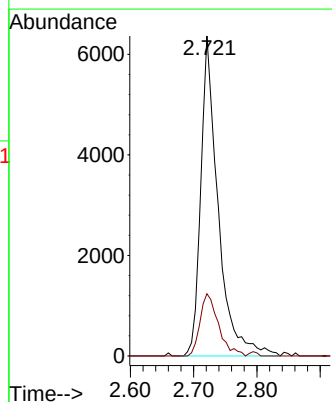
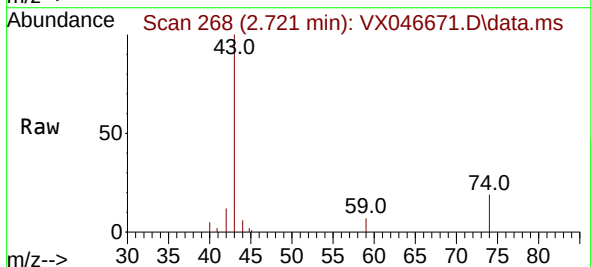
Instrument :
MSVOA_X
ClientSampleId :
HAM-CONCRETE

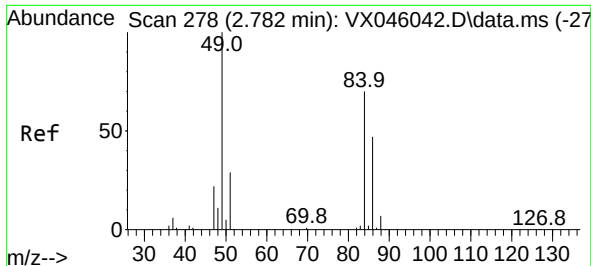
Tgt Ion: 76 Resp: 292
Ion Ratio Lower Upper
76 100
78 0.0 7.0 10.4#



#18
Methyl Acetate
Concen: 7.713 ug/l
RT: 2.721 min Scan# 268
Delta R.T. -0.000 min
Lab File: VX046671.D
Acq: 12 Jun 2025 18:02

Tgt Ion: 43 Resp: 12160
Ion Ratio Lower Upper
43 100
74 20.6 16.7 25.1

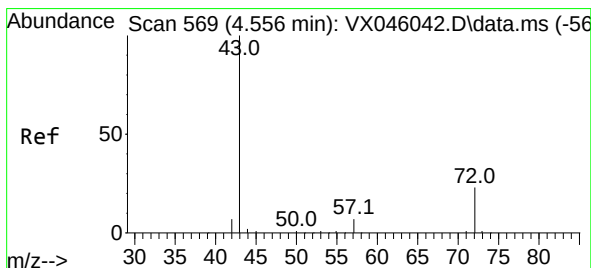
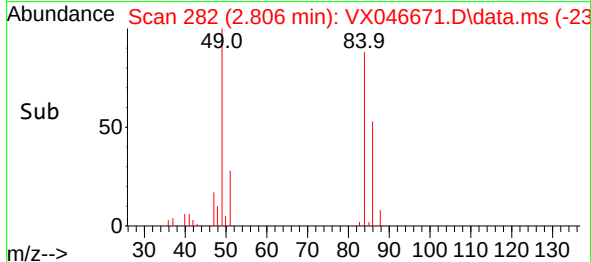
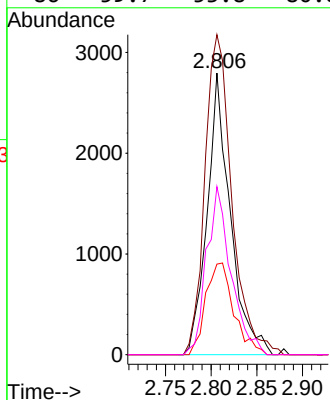
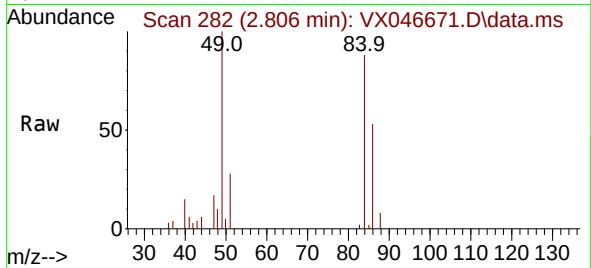




#20
Methylene Chloride
Concen: 4.647 ug/l
RT: 2.806 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX046671.D
Acq: 12 Jun 2025 18:02

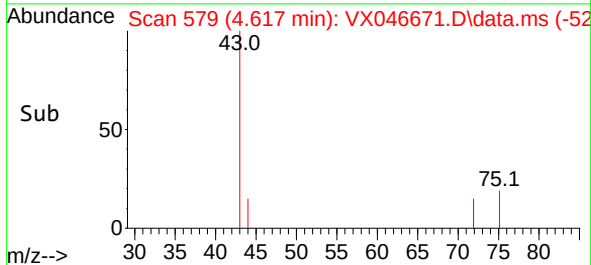
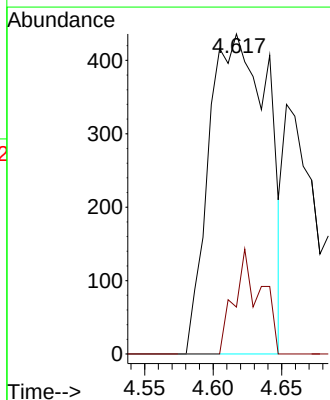
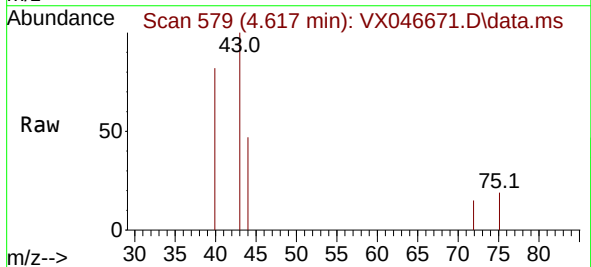
Instrument :
MSVOA_X
ClientSampleId :
HAM-CONCRETE

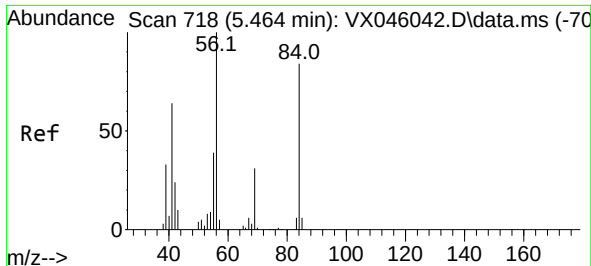
Tgt Ion:	84	Resp:	4934
Ion	Ratio	Lower	Upper
84	100		
49	113.6	113.9	170.9#
51	32.2	33.5	50.3#
86	59.7	53.8	80.8



#25
2-Butanone
Concen: 1.767 ug/l
RT: 4.617 min Scan# 579
Delta R.T. 0.043 min
Lab File: VX046671.D
Acq: 12 Jun 2025 18:02

Tgt Ion:	43	Resp:	1302
Ion	Ratio	Lower	Upper
43	100		
72	14.7	18.4	27.6#

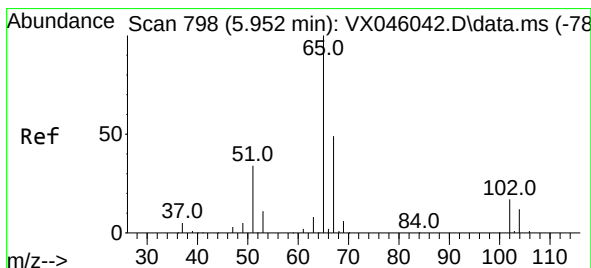
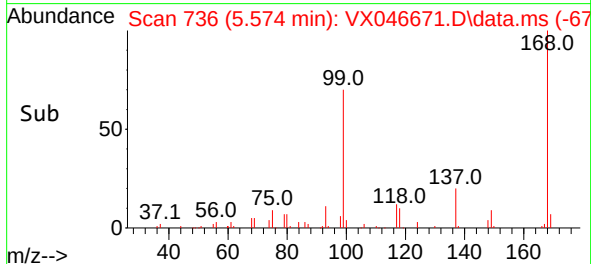
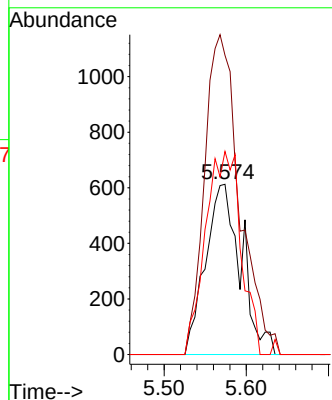
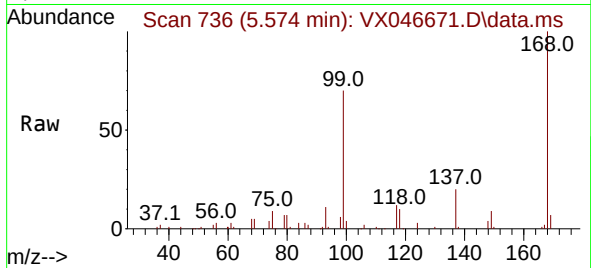




#31
Cyclohexane
Concen: 1.205 ug/l
RT: 5.574 min Scan# 718
Delta R.T. 0.085 min
Lab File: VX046671.D
Acq: 12 Jun 2025 18:02

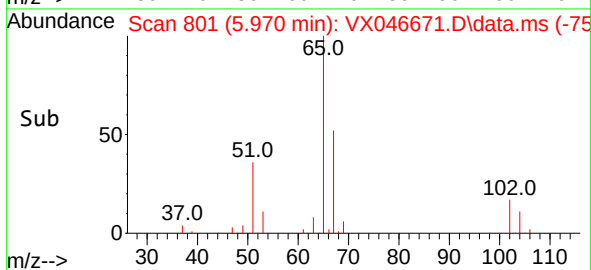
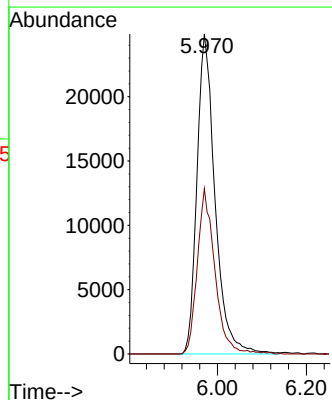
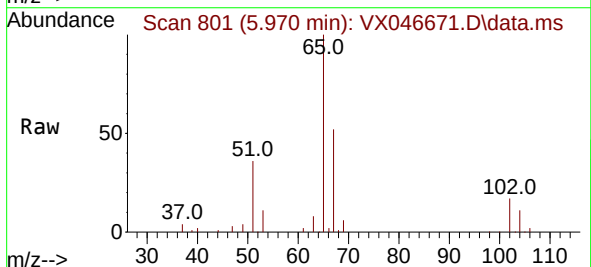
Instrument :
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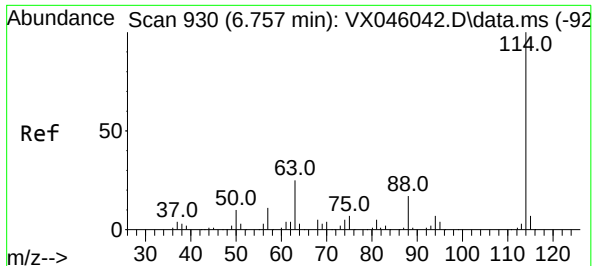
Tgt Ion: 56 Resp: 1854
Ion Ratio Lower Upper
56 100
69 175.7 24.4 36.6#
84 119.2 66.9 100.3#



#33
1,2-Dichloroethane-d4
Concen: 53.083 ug/l
RT: 5.970 min Scan# 801
Delta R.T. 0.000 min
Lab File: VX046671.D
Acq: 12 Jun 2025 18:02

Tgt Ion: 65 Resp: 70258
Ion Ratio Lower Upper
65 100
67 50.2 0.0 99.0

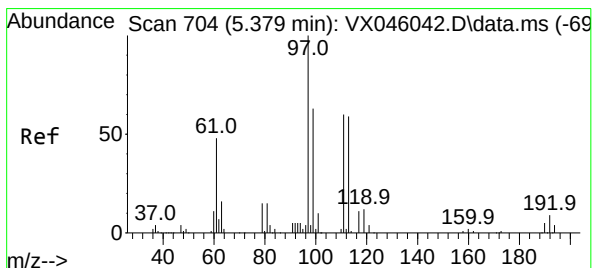
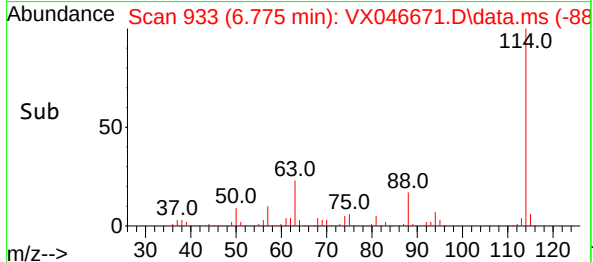
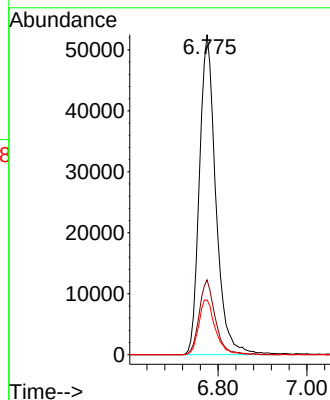
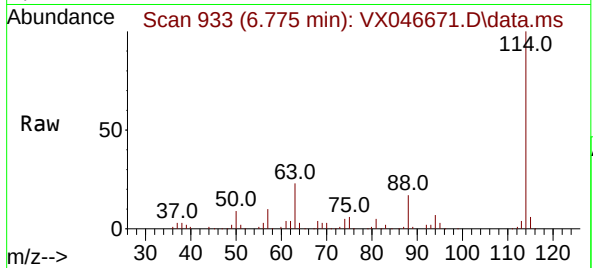




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.775 min Scan# 911
Delta R.T. 0.000 min
Lab File: VX046671.D
Acq: 12 Jun 2025 18:02

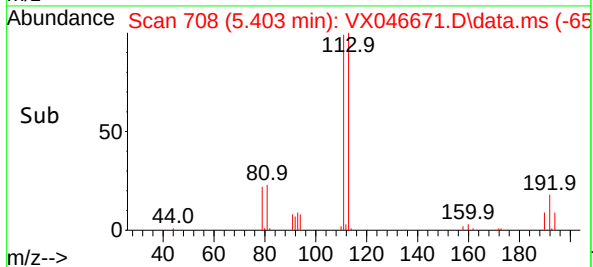
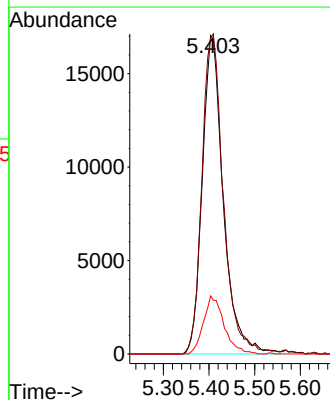
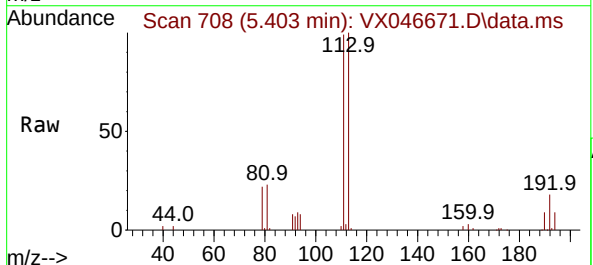
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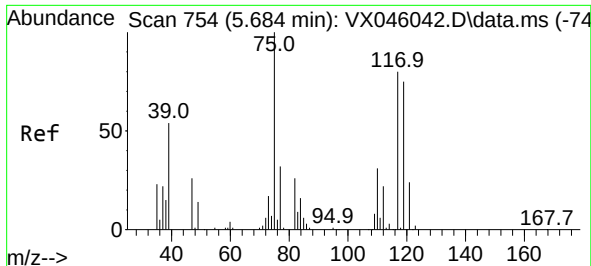
Tgt Ion:114 Resp: 134976
Ion Ratio Lower Upper
114 100
63 23.4 0.0 49.2
88 17.1 0.0 33.6



#35
Dibromofluoromethane
Concen: 54.859 ug/l
RT: 5.403 min Scan# 708
Delta R.T. 0.000 min
Lab File: VX046671.D
Acq: 12 Jun 2025 18:02

Tgt Ion:113 Resp: 54454
Ion Ratio Lower Upper
113 100
111 102.6 83.1 124.7
192 17.8 13.3 19.9

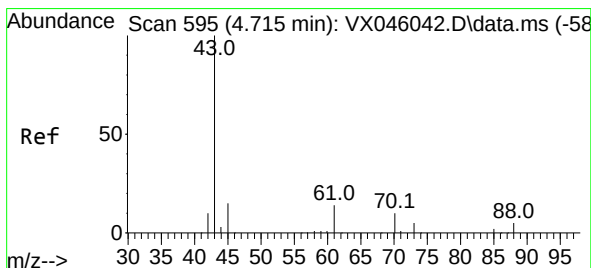
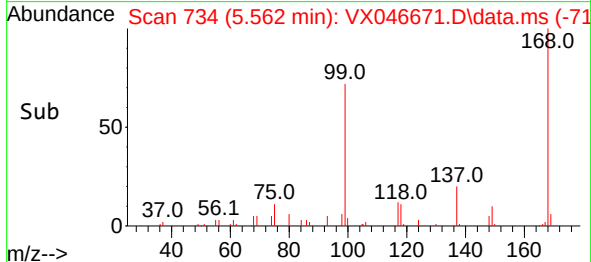
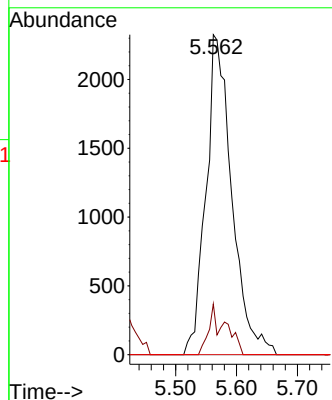
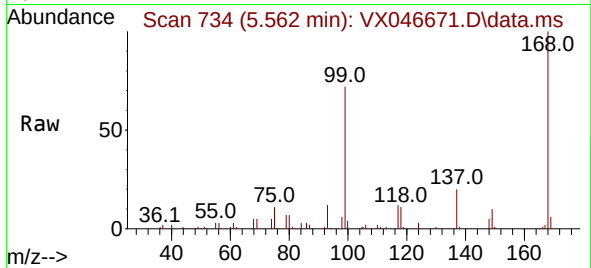




#36
1,1-Dichloropropene
Concen: 4.855 ug/l
RT: 5.562 min Scan# 71
Delta R.T. -0.152 min
Lab File: VX046671.D
Acq: 12 Jun 2025 18:02

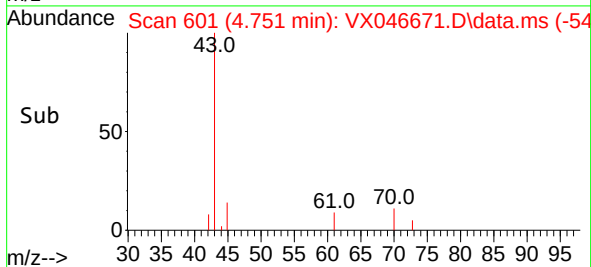
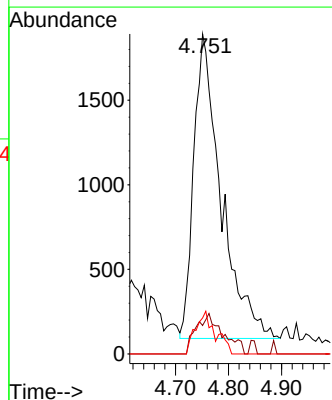
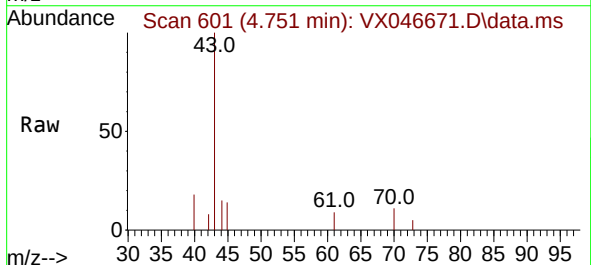
Instrument :
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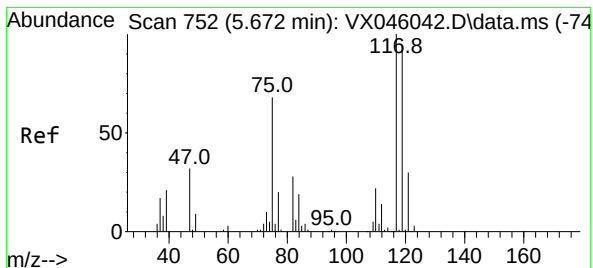
Tgt Ion: 75 Resp: 6884
Ion Ratio Lower Upper
75 100
110 5.7 16.3 48.9#
77 0.0 24.3 36.5#



#37
Ethyl Acetate
Concen: 4.646 ug/l
RT: 4.751 min Scan# 601
Delta R.T. 0.018 min
Lab File: VX046671.D
Acq: 12 Jun 2025 18:02

Tgt Ion: 43 Resp: 6429
Ion Ratio Lower Upper
43 100
61 13.1 10.3 15.5
70 10.2 7.9 11.9





#38

Carbon Tetrachloride

Concen: 5.510 ug/l

RT: 5.574 min Scan# 71

Delta R.T. -0.122 min

Lab File: VX046671.D

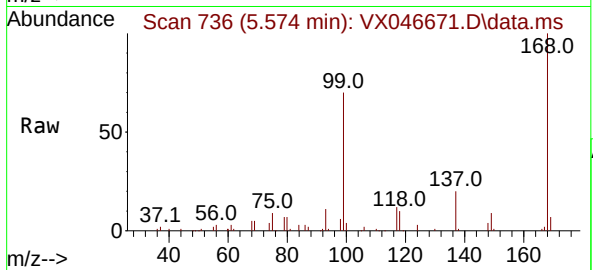
Acq: 12 Jun 2025 18:02

Instrument :

MSVOA_X

ClientSampleId :

HAM-CONCRETE



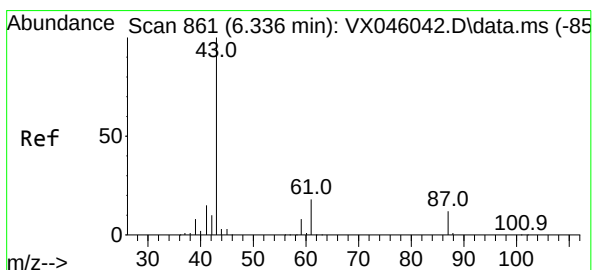
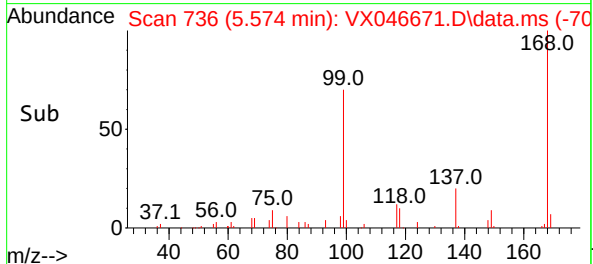
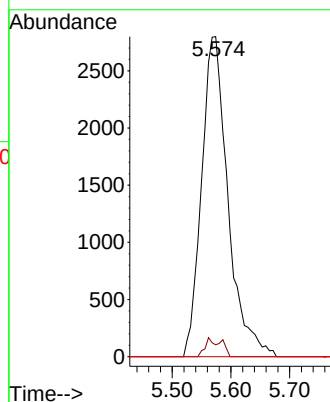
Tgt Ion:117 Resp: 8750

Ion Ratio Lower Upper

117 100

119 3.7 75.2 112.8#

121 0.0 24.2 36.4#



#43

Isopropyl Acetate

Concen: 1.948 ug/l

RT: 6.373 min Scan# 867

Delta R.T. 0.019 min

Lab File: VX046671.D

Acq: 12 Jun 2025 18:02

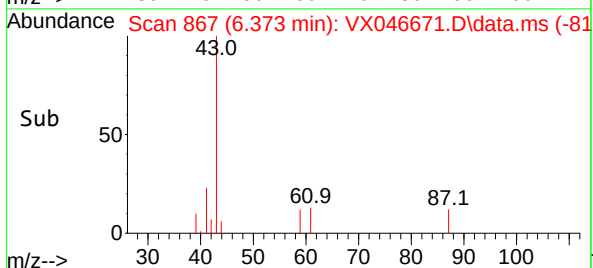
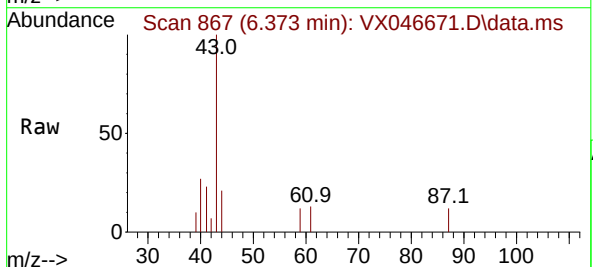
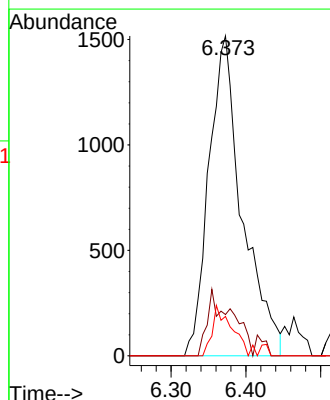
Tgt Ion: 43 Resp: 4700

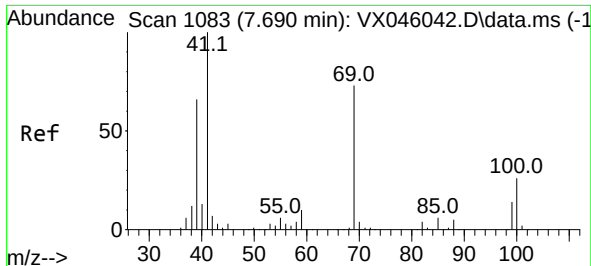
Ion Ratio Lower Upper

43 100

61 9.0 14.3 21.5#

87 9.1 9.5 14.3#

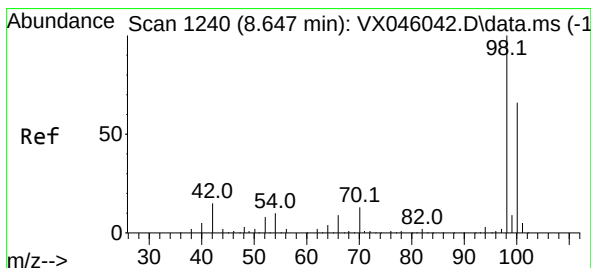
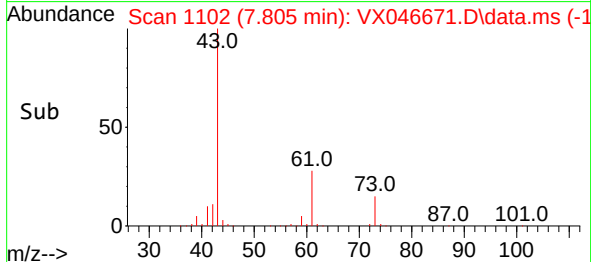
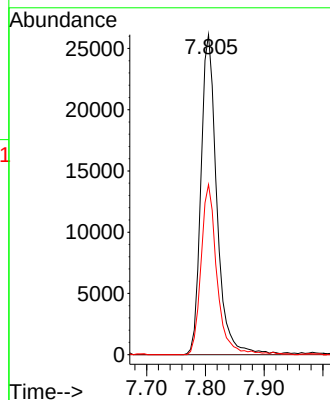
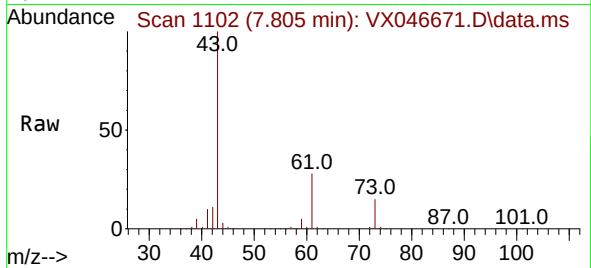




#48
Methyl methacrylate
Concen: 39.550 ug/l
RT: 7.805 min Scan# 1102
Delta R.T. 0.103 min
Lab File: VX046671.D
Acq: 12 Jun 2025 18:02

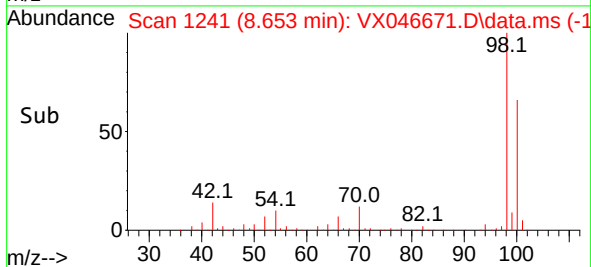
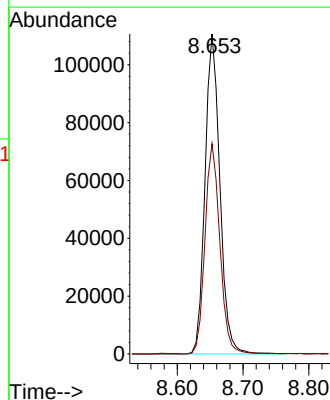
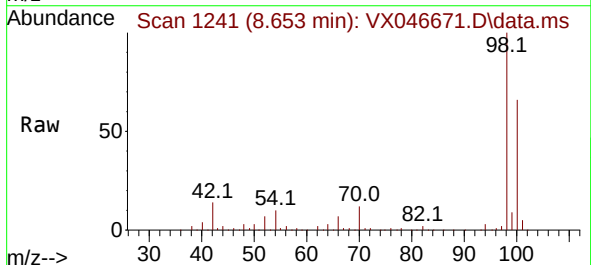
Instrument :
MSVOA_X
ClientSampleId :
HAM-CONCRETE

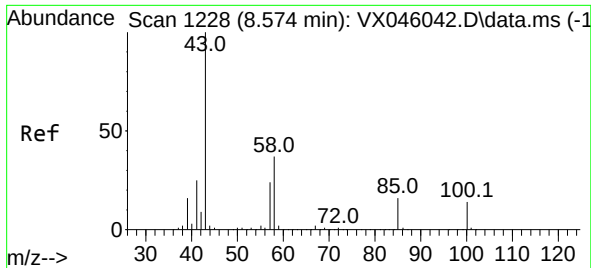
Tgt Ion: 41 Resp: 49092
Ion Ratio Lower Upper
41 100
69 0.0 58.5 87.7#
39 53.1 51.7 77.5



#50
Toluene-d8
Concen: 53.145 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. -0.000 min
Lab File: VX046671.D
Acq: 12 Jun 2025 18:02

Tgt Ion: 98 Resp: 173917
Ion Ratio Lower Upper
98 100
100 66.0 53.5 80.3

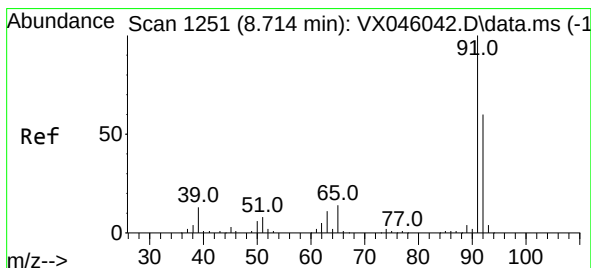
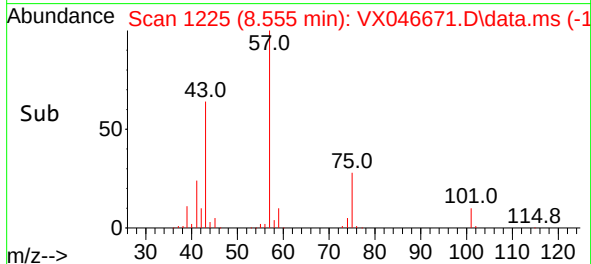
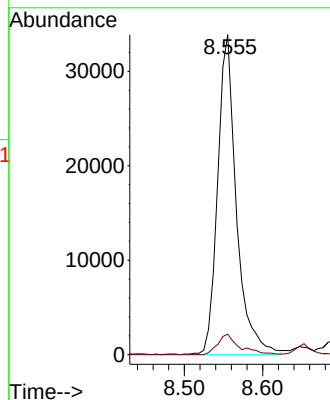
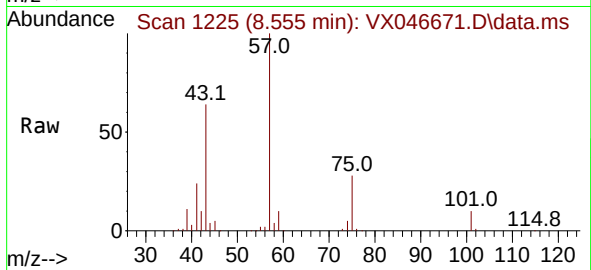




#51
4-Methyl-2-Pentanone
Concen: 36.830 ug/l
RT: 8.555 min Scan# 1225
Delta R.T. -0.018 min
Lab File: VX046671.D
Acq: 12 Jun 2025 18:02

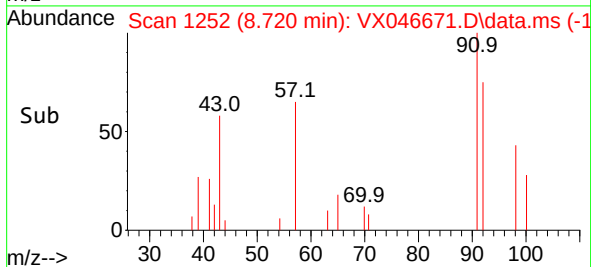
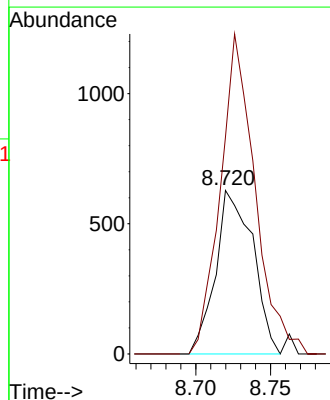
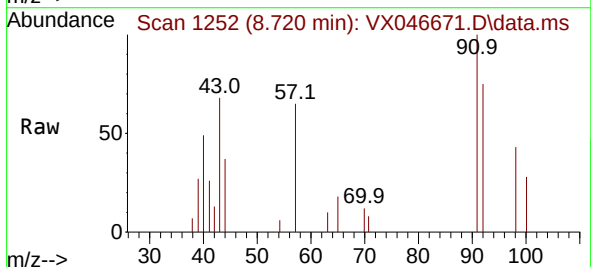
Instrument :
MSVOA_X
ClientSampleId :
HAM-CONCRETE

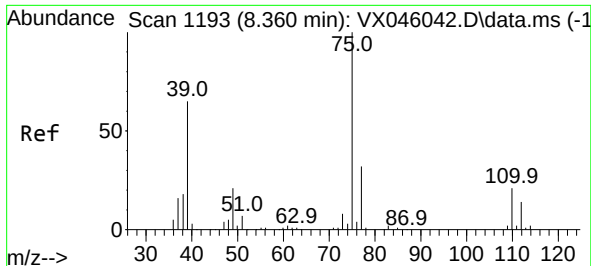
Tgt Ion: 43 Resp: 56462
Ion Ratio Lower Upper
43 100
58 7.5 28.9 43.3#



#52
Toluene
Concen: 0.444 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. -0.000 min
Lab File: VX046671.D
Acq: 12 Jun 2025 18:02

Tgt Ion: 92 Resp: 1088
Ion Ratio Lower Upper
92 100
91 182.4 136.6 205.0

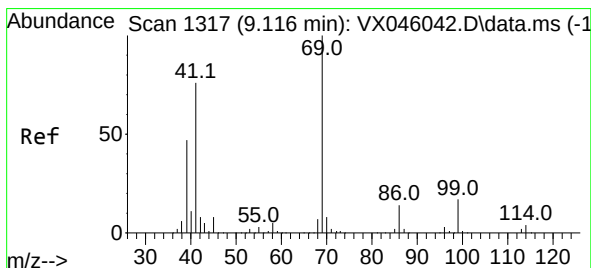
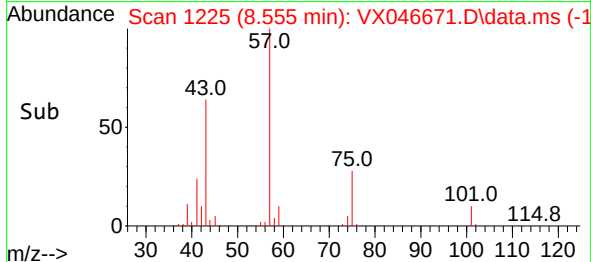
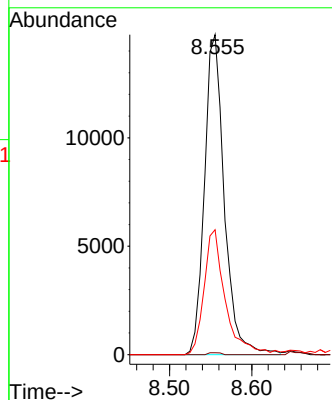
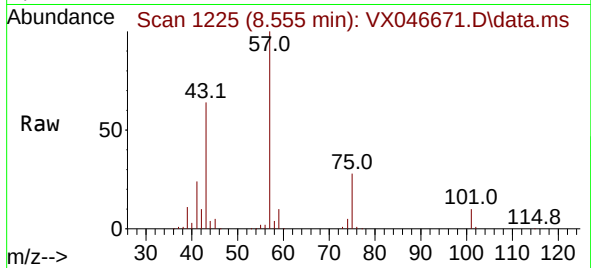




#54
 cis-1,3-Dichloropropene
 Concen: 15.562 ug/l
 RT: 8.555 min Scan# 1193
 Delta R.T. 0.183 min
 Lab File: VX046671.D
 Acq: 12 Jun 2025 18:02

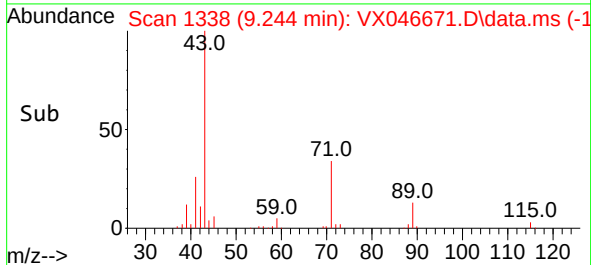
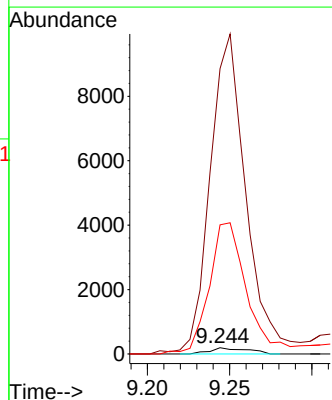
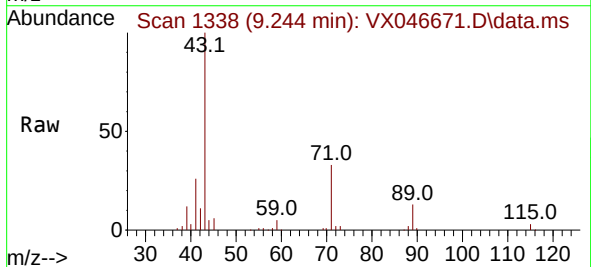
Instrument :
 MSVOA_X
 ClientSampleId :
 HAM-CONCRETE

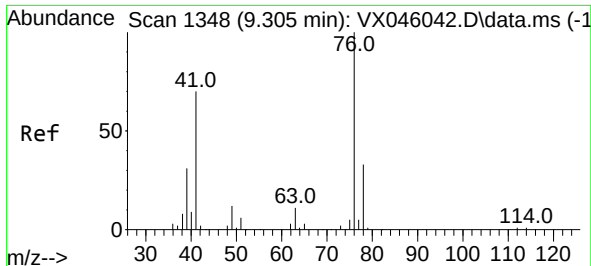
Tgt Ion: 75 Resp: 24724
 Ion Ratio Lower Upper
 75 100
 77 0.6 25.4 38.0#
 39 39.0 52.2 78.4#



#56
 Ethyl methacrylate
 Concen: 0.201 ug/l
 RT: 9.244 min Scan# 1338
 Delta R.T. 0.128 min
 Lab File: VX046671.D
 Acq: 12 Jun 2025 18:02

Tgt Ion: 69 Resp: 305
 Ion Ratio Lower Upper
 69 100
 41 4975.1 60.8 91.2#
 39 2143.3 39.0 58.6#





#57

1,3-Dichloropropane

Concen: 1.012 ug/l

RT: 9.482 min Scan# 1

Delta R.T. 0.171 min

Lab File: VX046671.D

Acq: 12 Jun 2025 18:02

Instrument :

MSVOA_X

ClientSampleId :

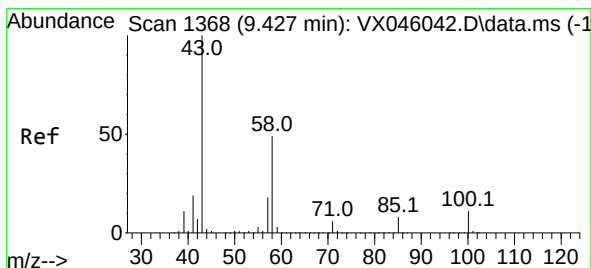
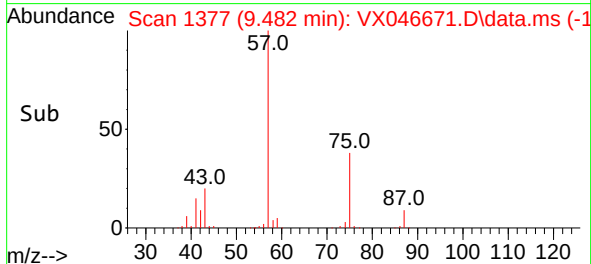
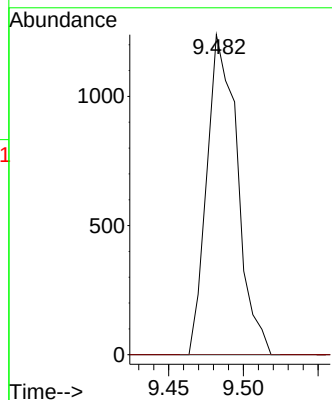
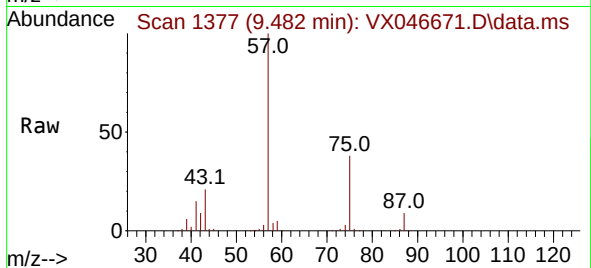
HAM-CONCRETE

Tgt Ion: 76 Resp: 1761

Ion Ratio Lower Upper

76 100

78 0.0 26.3 39.5#



#59

2-Hexanone

Concen: 6.799 ug/l

RT: 9.378 min Scan# 1360

Delta R.T. -0.055 min

Lab File: VX046671.D

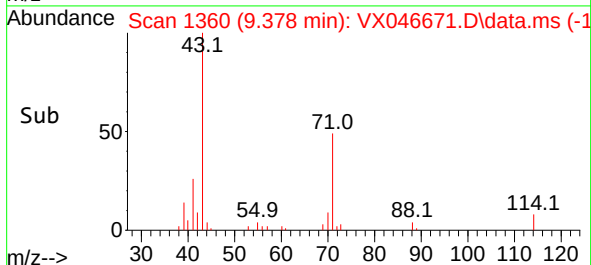
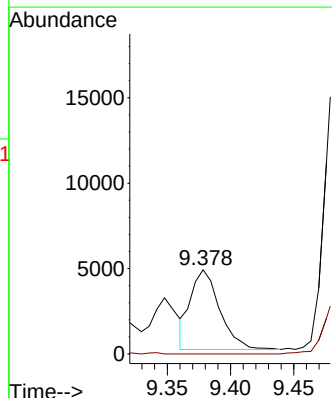
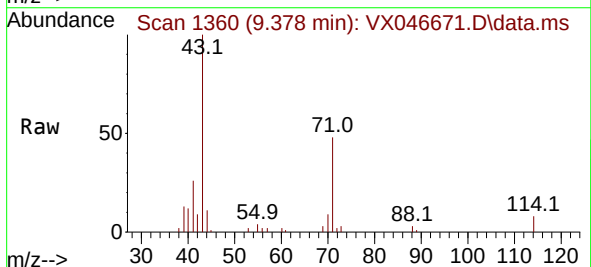
Acq: 12 Jun 2025 18:02

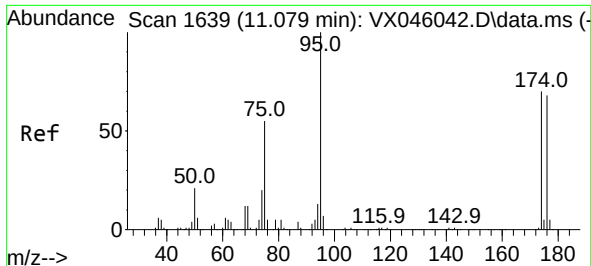
Tgt Ion: 43 Resp: 7475

Ion Ratio Lower Upper

43 100

58 0.0 24.9 74.6#





#62

4-Bromofluorobenzene

Concen: 53.281 ug/l

RT: 11.079 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX046671.D

Acq: 12 Jun 2025 18:02

Instrument :

MSVOA_X

ClientSampleId :

HAM-CONCRETE

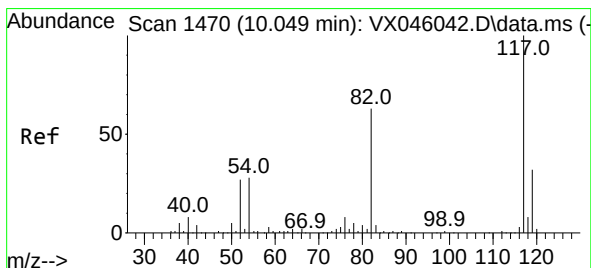
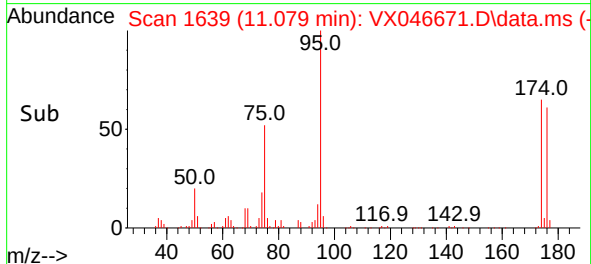
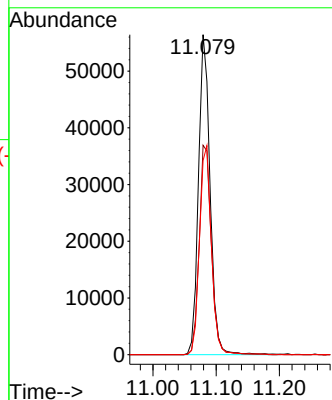
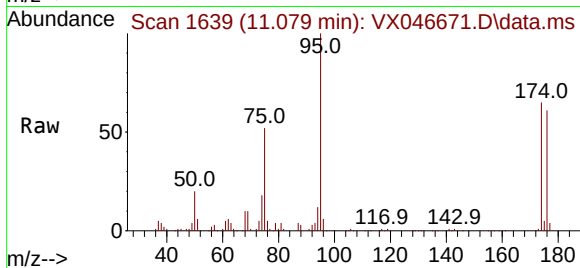
Tgt Ion: 95 Resp: 72141

Ion Ratio Lower Upper

95 100

174 68.7 0.0 135.8

176 67.1 0.0 131.4



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. -0.000 min

Lab File: VX046671.D

Acq: 12 Jun 2025 18:02

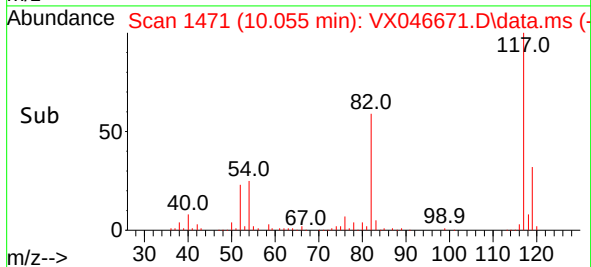
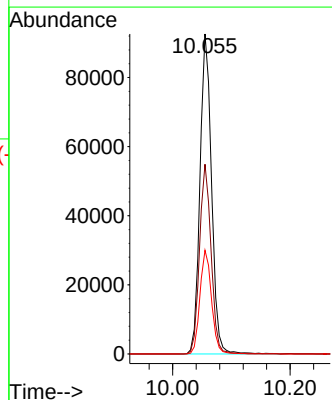
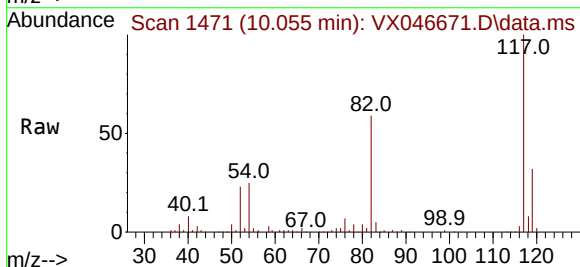
Tgt Ion: 117 Resp: 126245

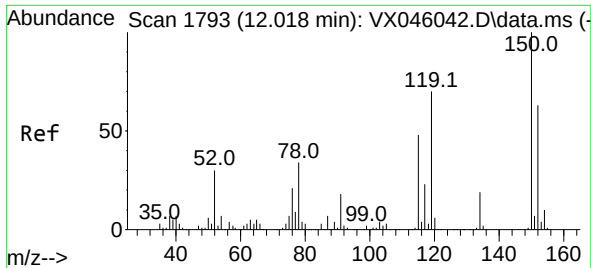
Ion Ratio Lower Upper

117 100

82 59.3 50.6 76.0

119 32.4 25.8 38.6

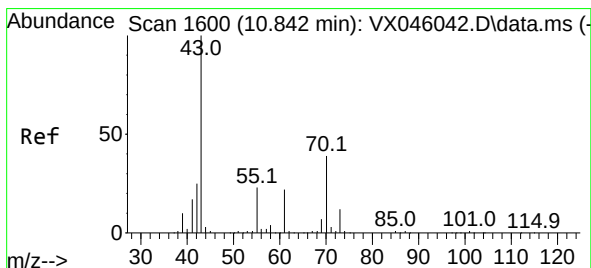
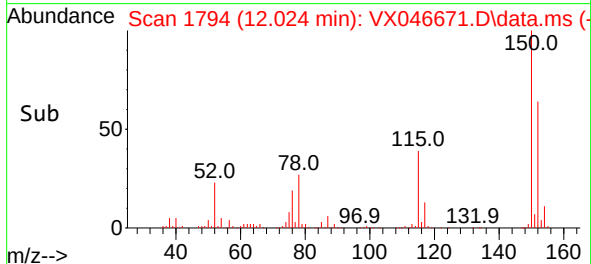
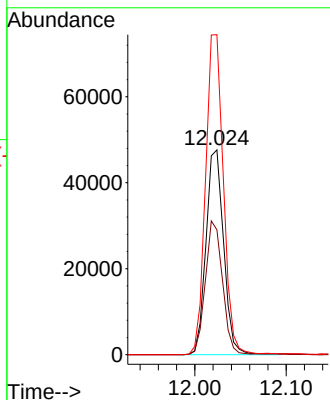
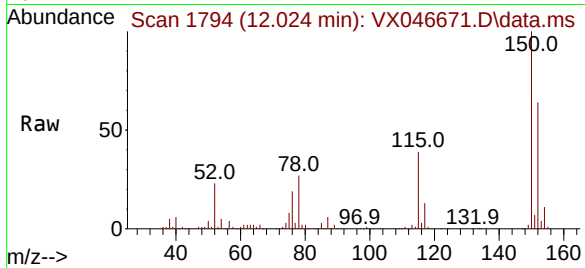




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.024 min Scan# 1
 Delta R.T. 0.000 min
 Lab File: VX046671.D
 Acq: 12 Jun 2025 18:02

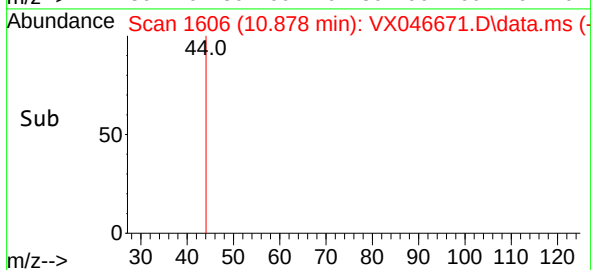
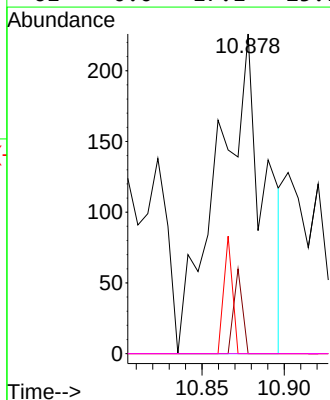
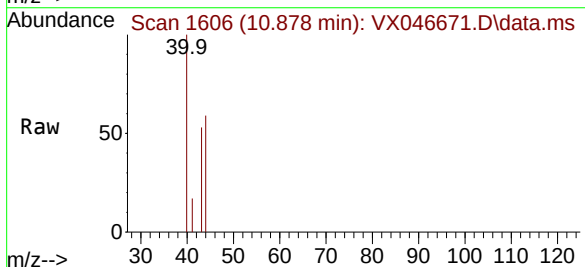
Instrument :
 MSVOA_X
 ClientSampleId :
 HAM-CONCRETE

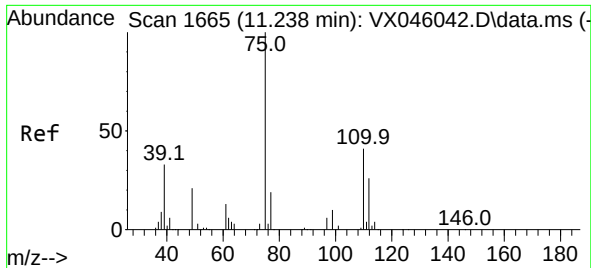
Tgt Ion:152 Resp: 63815
 Ion Ratio Lower Upper
 152 100
 115 63.5 46.9 140.7
 150 157.2 0.0 351.0



#74
 N-ethyl acetate
 Concen: 0.203 ug/l
 RT: 10.878 min Scan# 1606
 Delta R.T. 0.037 min
 Lab File: VX046671.D
 Acq: 12 Jun 2025 18:02

Tgt Ion: 43 Resp: 449
 Ion Ratio Lower Upper
 43 100
 70 4.9 30.9 46.3#
 55 6.7 18.7 28.1#
 61 0.0 17.1 25.7#

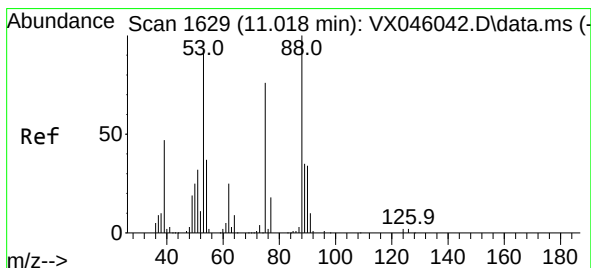
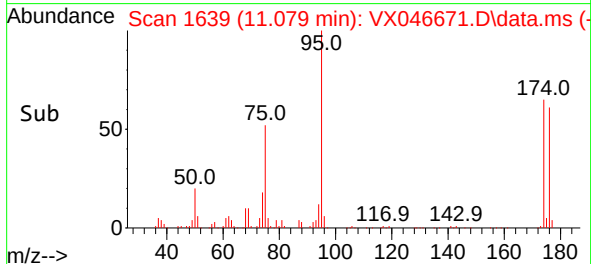
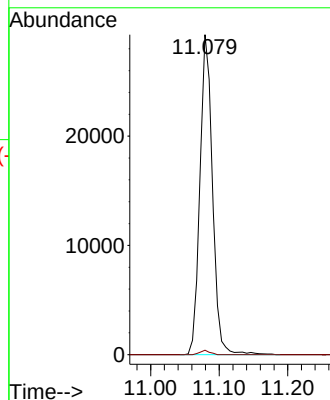
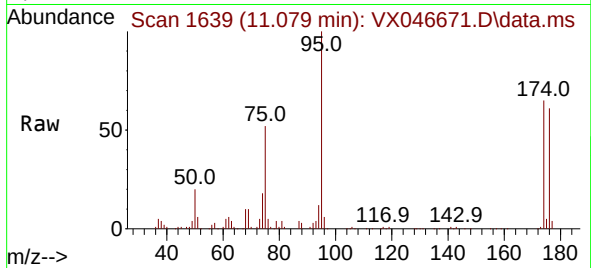




#76
1,2,3-Trichloropropane
Concen: 27.764 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.159 min
Lab File: VX046671.D
Acq: 12 Jun 2025 18:02

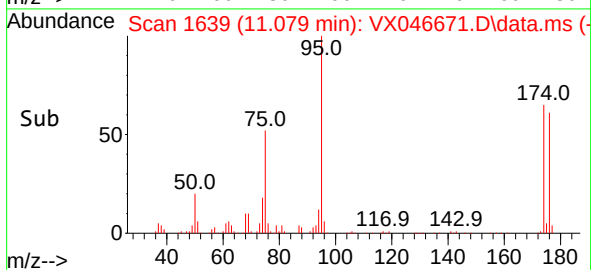
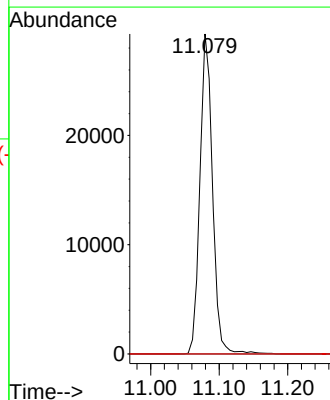
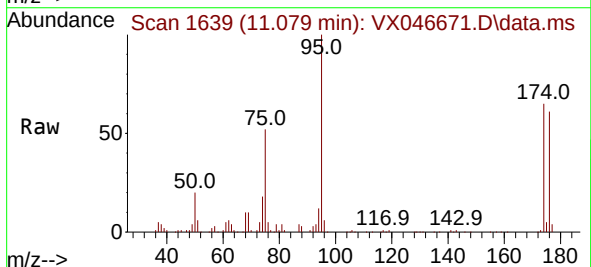
Instrument :
MSVOA_X
ClientSampleId :
HAM-CONCRETE

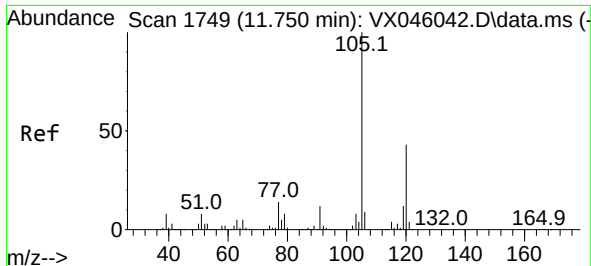
Tgt Ion: 75 Resp: 37528
Ion Ratio Lower Upper
75 100
77 1.1 20.5 61.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 80.088 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX046671.D
Acq: 12 Jun 2025 18:02

Tgt Ion: 75 Resp: 37528
Ion Ratio Lower Upper
75 100
53 0.0 100.5 150.7#
89 0.0 37.0 55.6#

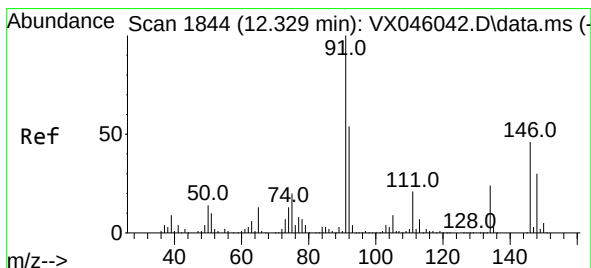
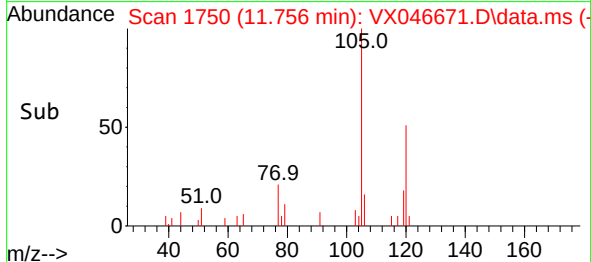
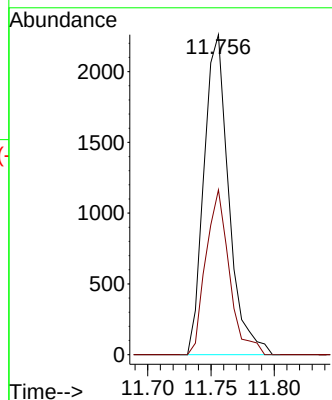
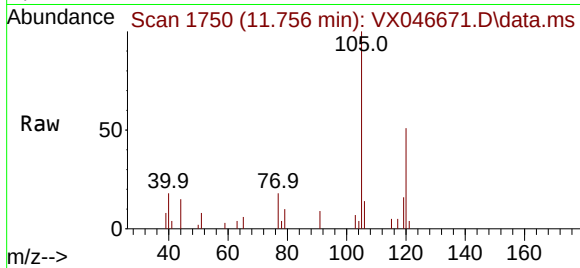




#84
1,2,4-Trimethylbenzene
Concen: 0.730 ug/l
RT: 11.756 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX046671.D
Acq: 12 Jun 2025 18:02

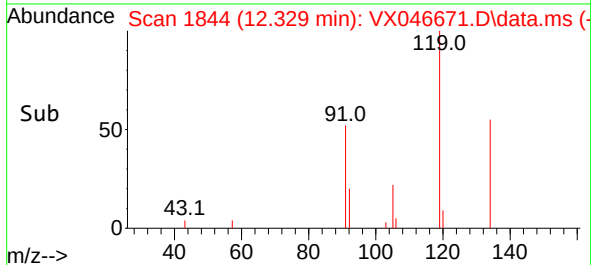
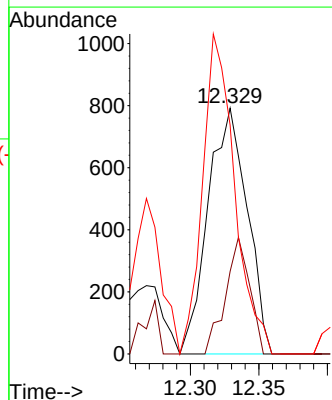
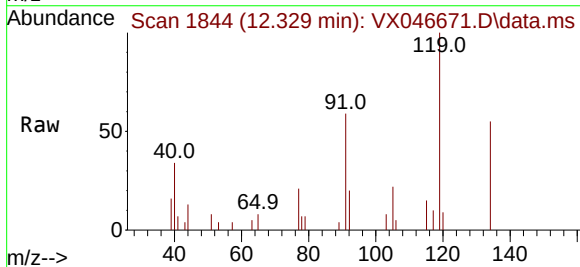
Instrument :
MSVOA_X
ClientSampleId :
HAM-CONCRETE

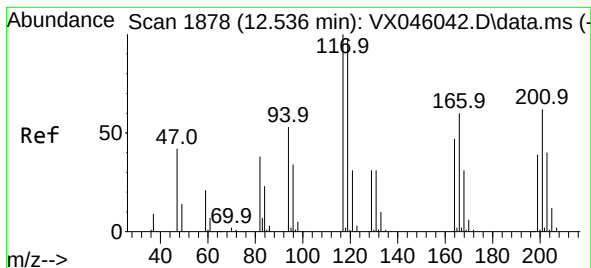
Tgt Ion:105 Resp: 3086
Ion Ratio Lower Upper
105 100
120 48.8 21.2 63.6



#89
n-Butylbenzene
Concen: 0.353 ug/l
RT: 12.329 min Scan# 1844
Delta R.T. -0.000 min
Lab File: VX046671.D
Acq: 12 Jun 2025 18:02

Tgt Ion: 91 Resp: 1578
Ion Ratio Lower Upper
91 100
92 29.1 26.9 80.7
134 105.9 11.8 35.3#





#90

Hexachloroethane

Concen: 0.443 ug/l

RT: 12.536 min Scan# 117

Delta R.T. 0.000 min

Lab File: VX046671.D

Acq: 12 Jun 2025 18:02

Instrument :

MSVOA_X

ClientSampleId :

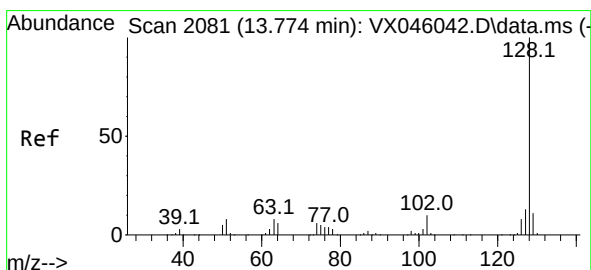
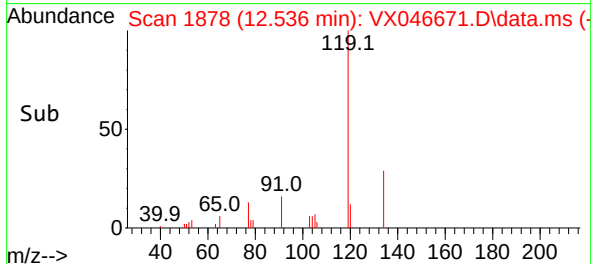
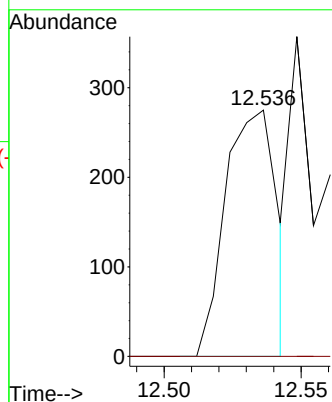
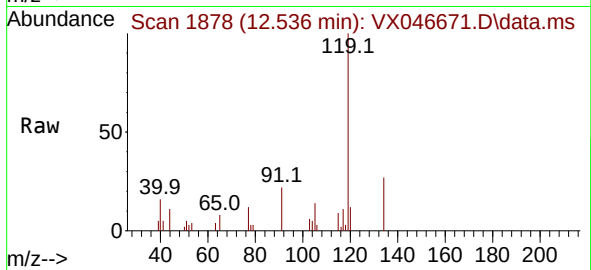
HAM-CONCRETE

Tgt Ion:117 Resp: 359

Ion Ratio Lower Upper

117 100

201 0.0 31.6 94.7#



#95

Naphthalene

Concen: 3.924 ug/l

RT: 13.774 min Scan# 2081

Delta R.T. -0.000 min

Lab File: VX046671.D

Acq: 12 Jun 2025 18:02

Tgt Ion:128 Resp: 18528

Ion Ratio Lower Upper

128 100

127 12.8 10.4 15.6

129 11.4 8.6 13.0

