

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112524\
 Data File : VX044000.D
 Acq On : 25 Nov 2024 20:26
 Operator : JC/MD
 Sample : P4938-08
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 25 Sample Multiplier: 1

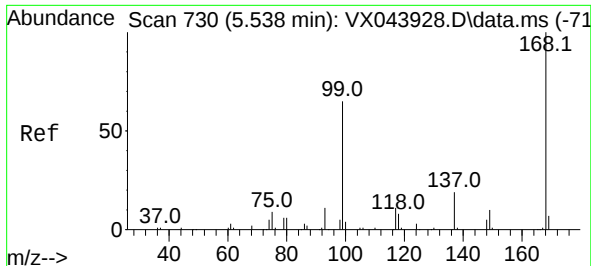
Instrument :
 MSVOA_X
 ClientSampleId :
 MH-734

Quant Time: Nov 27 07:48:34 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 22 03:45:52 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.550	168	118735	50.000	ug/l	0.01
34) 1,4-Difluorobenzene	6.757	114	225451	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	201840	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	88350	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	102246	50.207	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.420%			
35) Dibromofluoromethane	5.385	113	76985	47.788	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 95.580%			
50) Toluene-d8	8.647	98	274772	49.480	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 98.960%			
62) 4-Bromofluorobenzene	11.079	95	92930	49.172	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 98.340%			
Target Compounds					Qvalue	
5) Bromomethane	1.593	94	617	0.596	ug/l #	3
6) Chloroethane	1.630	64	275	0.268	ug/l #	23
11) Tert butyl alcohol	2.941	59	2429	7.431	ug/l #	73
13) Acrolein	2.233	56	300	0.871	ug/l #	79
16) Acetone	2.386	43	49431	52.848	ug/l	95
17) Carbon Disulfide	2.496	76	996	0.353	ug/l #	76
18) Methyl Acetate	2.703	43	3282	1.507	ug/l	95
20) Methylene Chloride	2.788	84	2329	1.467	ug/l	89
25) 2-Butanone	4.587	43	5557	4.604	ug/l	96
29) Tetrahydrofuran	5.013	42	295	0.399	ug/l #	32
31) Cyclohexane	5.550	56	3281	1.446	ug/l #	43
36) 1,1-Dichloropropene	5.544	75	11038	5.499	ug/l #	46
37) Ethyl Acetate	4.733	43	1464	0.588	ug/l #	93
38) Carbon Tetrachloride	5.550	117	13608	6.033	ug/l #	15
43) Isopropyl Acetate	6.342	43	119254	30.071	ug/l	100
44) Trichloroethene	7.129	130	619	0.350	ug/l	91
48) Methyl methacrylate	7.799	41	105139	55.252	ug/l #	46
49) 1,4-Dioxane	7.799	88	205	6.048	ug/l #	1
51) 4-Methyl-2-Pentanone	8.549	43	90933	37.574	ug/l #	50
53) t-1,3-Dichloropropene	8.952	75	827	0.373	ug/l #	43
54) cis-1,3-Dichloropropene	8.549	75	36582	15.060	ug/l #	64
57) 1,3-Dichloropropane	9.482	76	4549	1.748	ug/l #	42
59) 2-Hexanone	9.372	43	98280	54.030	ug/l #	26
74) N-amyl acetate	10.640	43	17730	5.636	ug/l #	54
76) 1,2,3-Trichloropropane	11.079	75	51739	26.704	ug/l #	34
81) trans-1,4-Dichloro-2-b...	11.079	75	51739	72.869	ug/l #	6

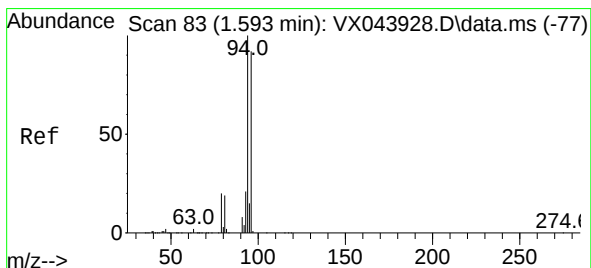
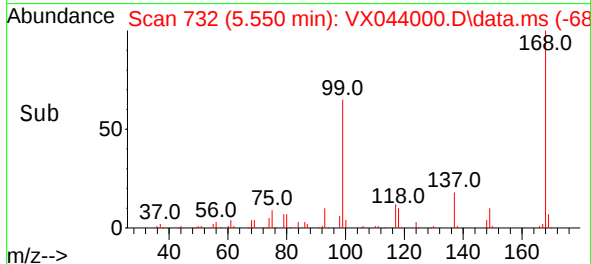
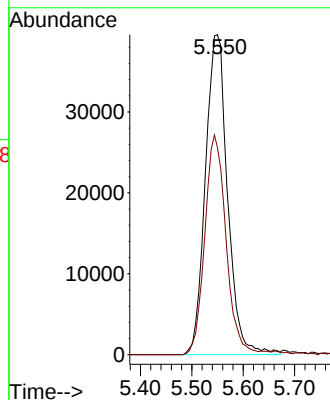
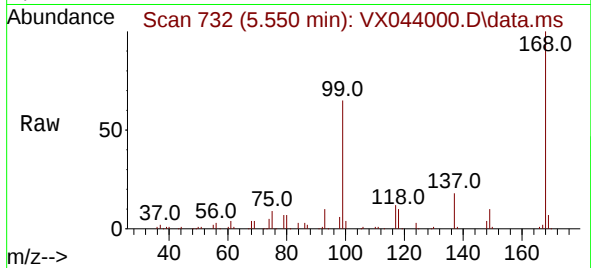
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 732
Delta R.T. 0.012 min
Lab File: VX044000.D
Acq: 25 Nov 2024 20:26

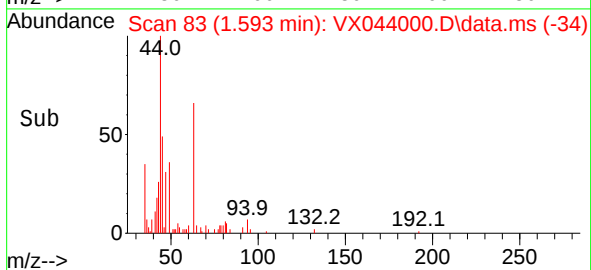
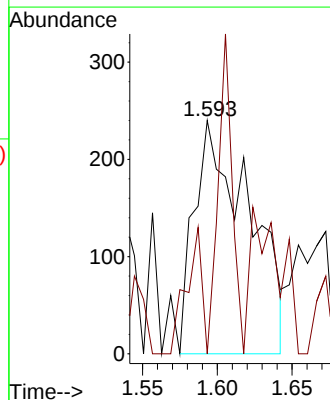
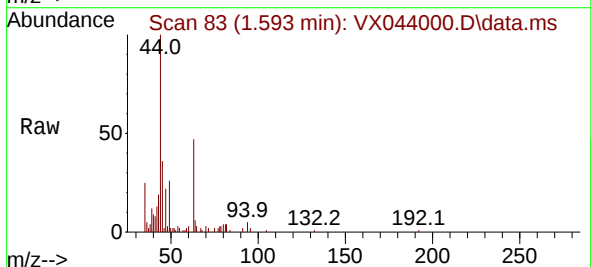
Instrument :
MSVOA_X
ClientSampleId :
MH-734

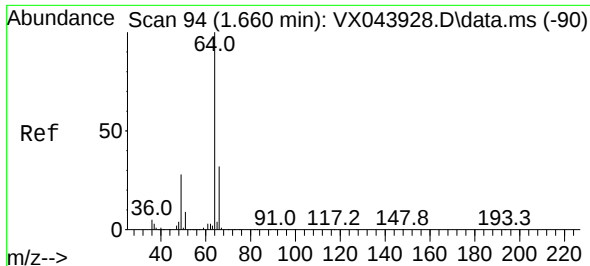
Tgt Ion:168 Resp: 118735
Ion Ratio Lower Upper
168 100
99 64.7 51.8 77.8



#5
Bromomethane
Concen: 0.596 ug/l
RT: 1.593 min Scan# 83
Delta R.T. -0.000 min
Lab File: VX044000.D
Acq: 25 Nov 2024 20:26

Tgt Ion: 94 Resp: 617
Ion Ratio Lower Upper
94 100
96 0.0 73.9 110.9#





#6

Chloroethane

Concen: 0.268 ug/l

RT: 1.630 min Scan# 80

Delta R.T. -0.031 min

Lab File: VX044000.D

Acq: 25 Nov 2024 20:26

Instrument :

MSVOA_X

ClientSampleId :

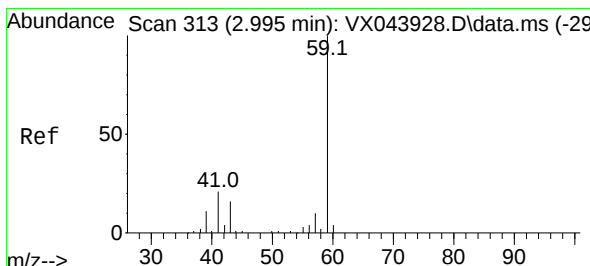
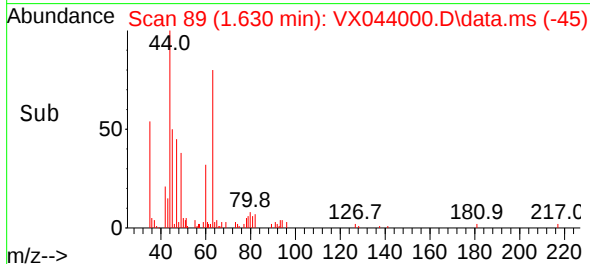
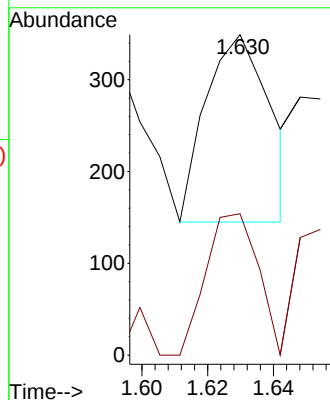
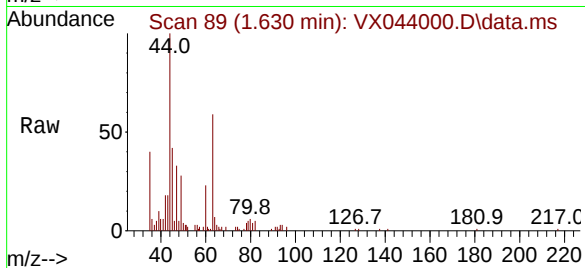
MH-734

Tgt Ion: 64 Resp: 275

Ion Ratio Lower Upper

64 100

66 75.5 25.9 38.9#



#11

Tert butyl alcohol

Concen: 7.431 ug/l

RT: 2.941 min Scan# 304

Delta R.T. -0.055 min

Lab File: VX044000.D

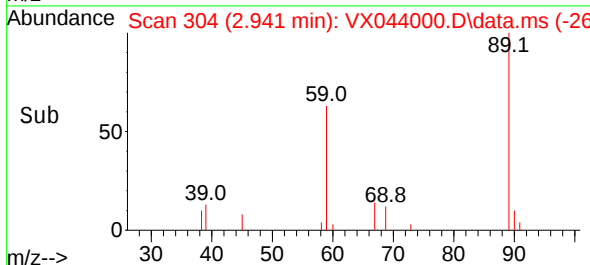
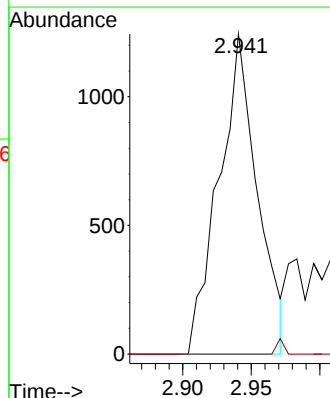
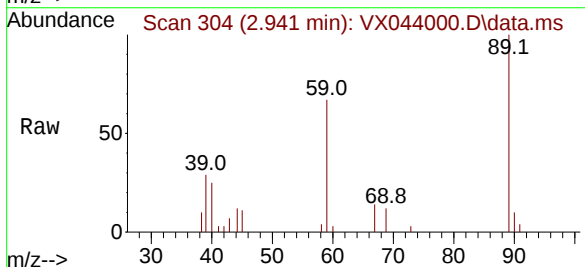
Acq: 25 Nov 2024 20:26

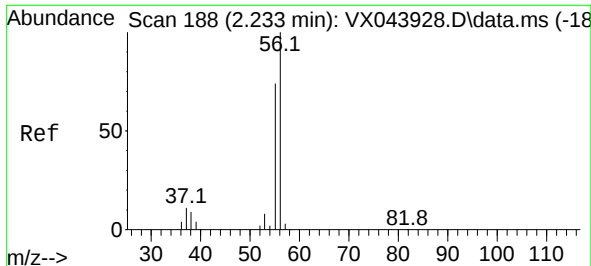
Tgt Ion: 59 Resp: 2429

Ion Ratio Lower Upper

59 100

57 0.0 7.9 11.9#





#13

Acrolein

Concen: 0.871 ug/l

RT: 2.233 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX044000.D

Acq: 25 Nov 2024 20:26

Instrument :

MSVOA_X

ClientSampleId :

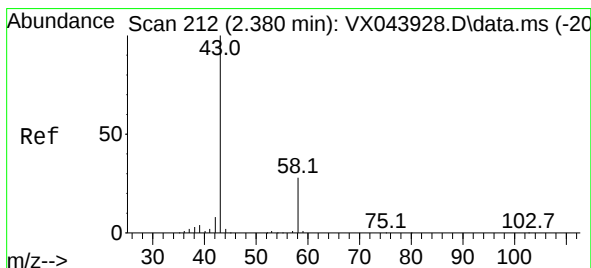
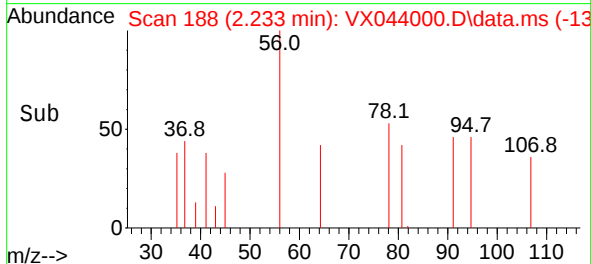
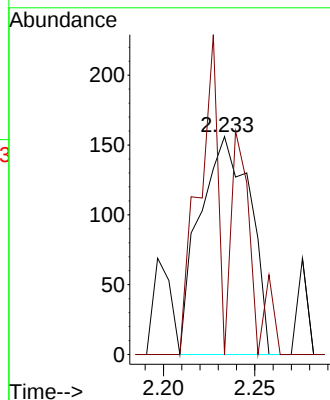
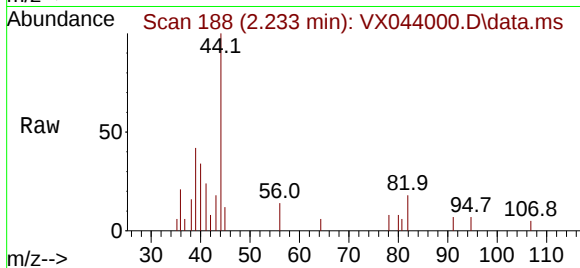
MH-734

Tgt Ion: 56 Resp: 300

Ion Ratio Lower Upper

56 100

55 55.3 58.2 87.2#



#16

Acetone

Concen: 52.848 ug/l

RT: 2.386 min Scan# 213

Delta R.T. 0.006 min

Lab File: VX044000.D

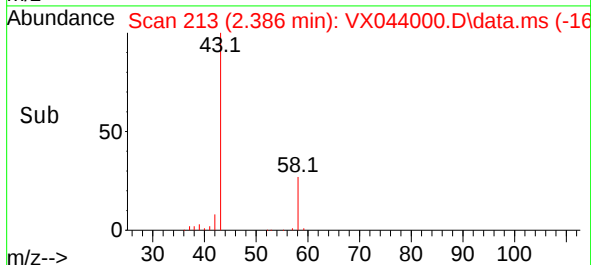
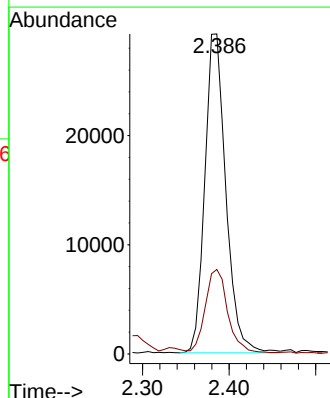
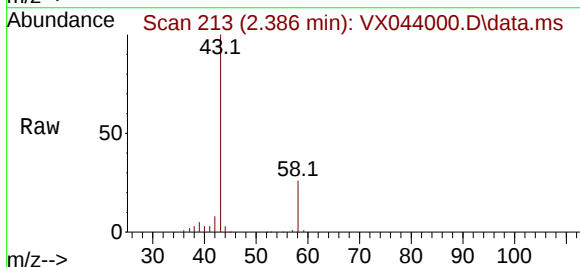
Acq: 25 Nov 2024 20:26

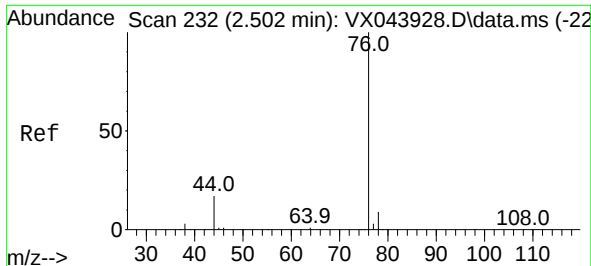
Tgt Ion: 43 Resp: 49431

Ion Ratio Lower Upper

43 100

58 26.0 22.7 34.1





#17

Carbon Disulfide

Concen: 0.353 ug/l

RT: 2.496 min Scan# 231

Delta R.T. -0.006 min

Lab File: VX044000.D

Acq: 25 Nov 2024 20:26

Instrument :

MSVOA_X

ClientSampleId :

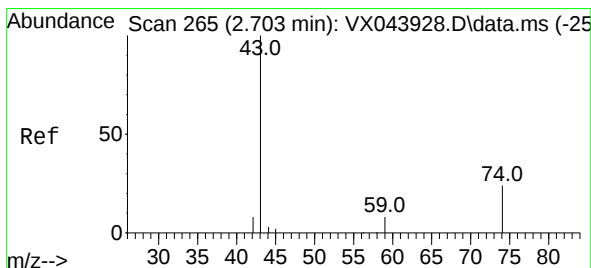
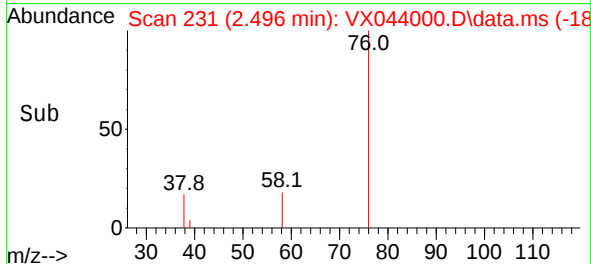
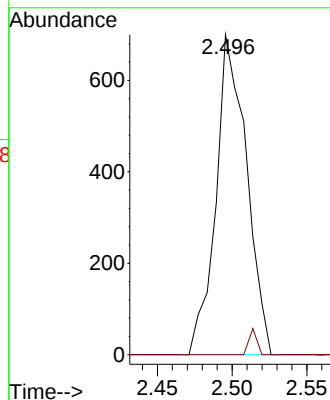
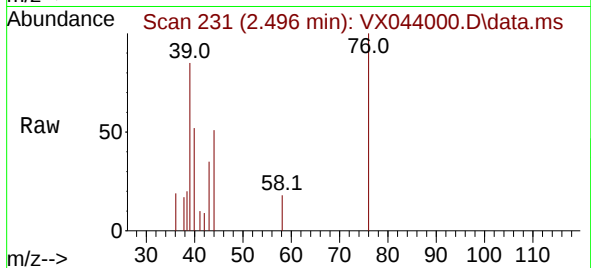
MH-734

Tgt Ion: 76 Resp: 996

Ion Ratio Lower Upper

76 100

78 0.0 7.0 10.6#



#18

Methyl Acetate

Concen: 1.507 ug/l

RT: 2.703 min Scan# 265

Delta R.T. -0.000 min

Lab File: VX044000.D

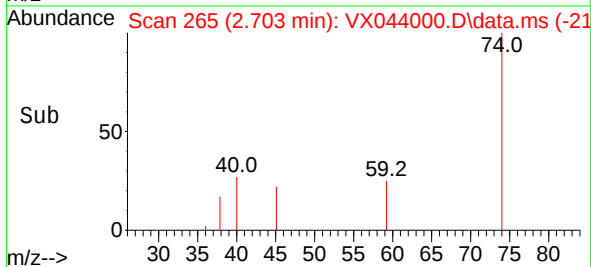
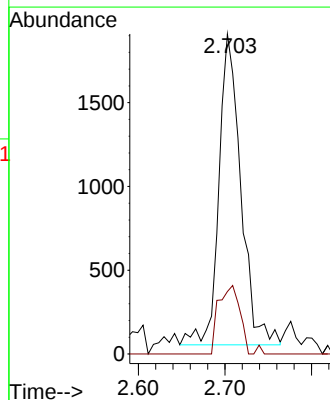
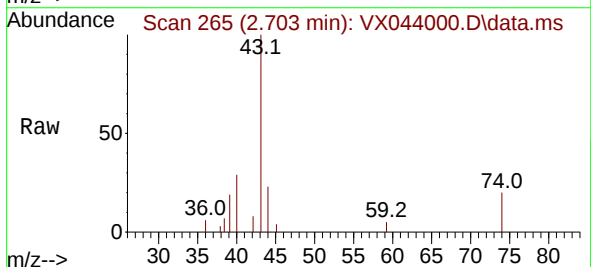
Acq: 25 Nov 2024 20:26

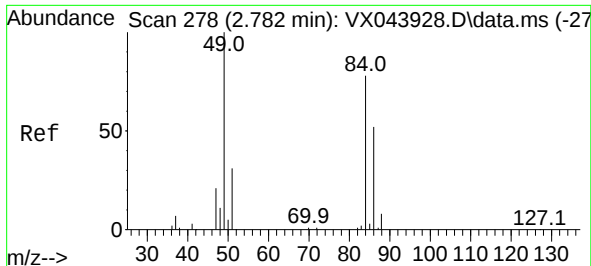
Tgt Ion: 43 Resp: 3282

Ion Ratio Lower Upper

43 100

74 21.3 18.9 28.3





#20

Methylene Chloride

Concen: 1.467 ug/l

RT: 2.788 min Scan# 21

Delta R.T. 0.006 min

Lab File: VX044000.D

Acq: 25 Nov 2024 20:26

Instrument :

MSVOA_X

ClientSampleId :

MH-734

Tgt Ion: 84 Resp: 2329

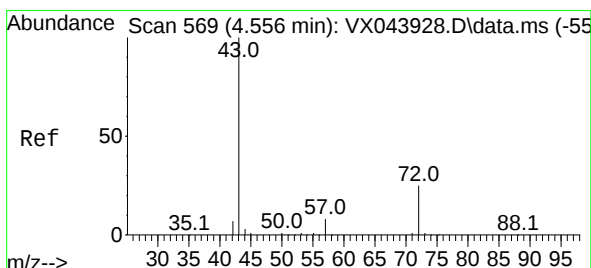
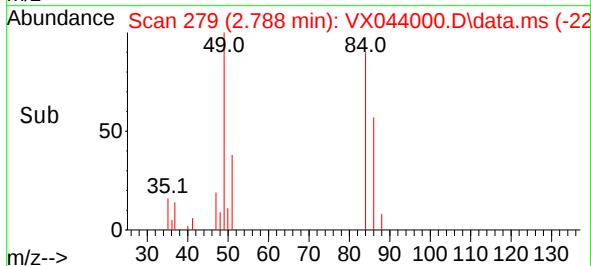
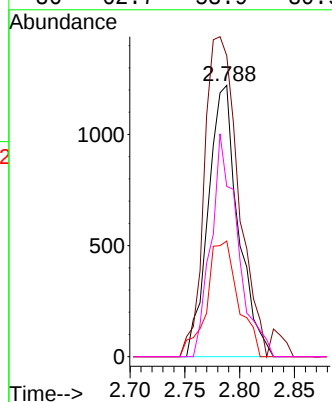
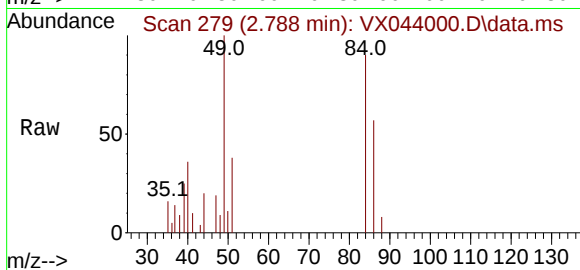
Ion Ratio Lower Upper

84 100

49 110.9 102.7 154.1

51 42.7 31.7 47.5

86 62.7 53.9 80.9



#25

2-Butanone

Concen: 4.604 ug/l

RT: 4.587 min Scan# 574

Delta R.T. 0.030 min

Lab File: VX044000.D

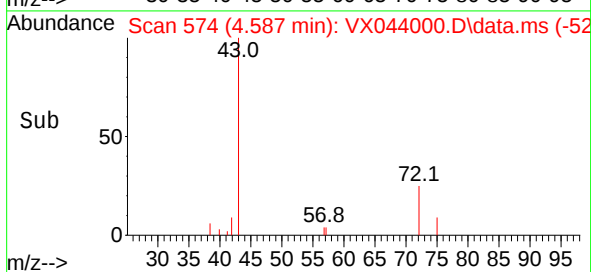
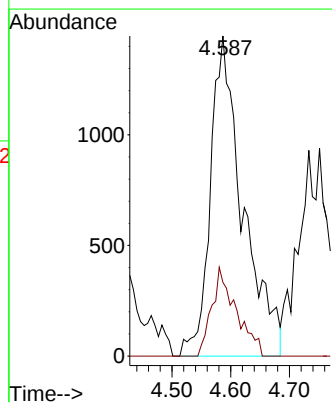
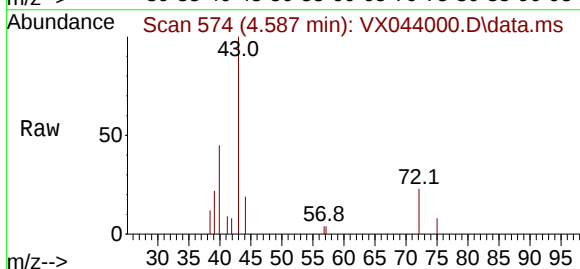
Acq: 25 Nov 2024 20:26

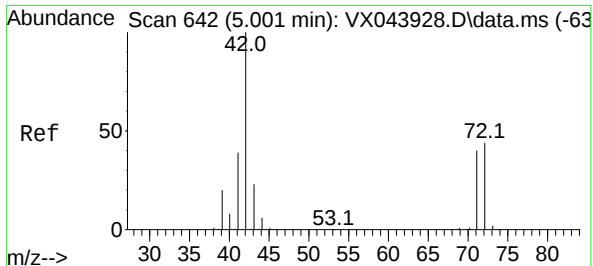
Tgt Ion: 43 Resp: 5557

Ion Ratio Lower Upper

43 100

72 23.0 20.2 30.2





#29

Tetrahydrofuran

Concen: 0.399 ug/l

RT: 5.013 min Scan# 642

Delta R.T. 0.012 min

Lab File: VX044000.D

Acq: 25 Nov 2024 20:26

Instrument :

MSVOA_X

ClientSampleId :

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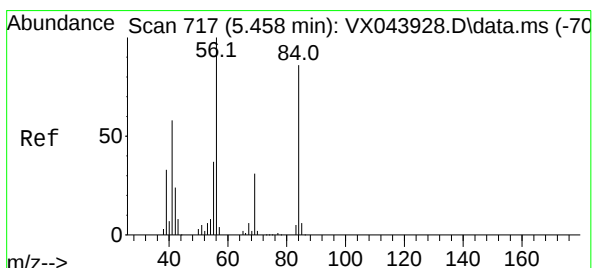
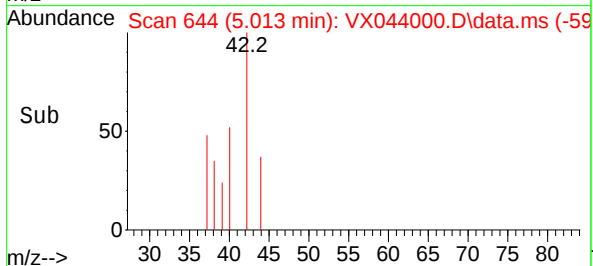
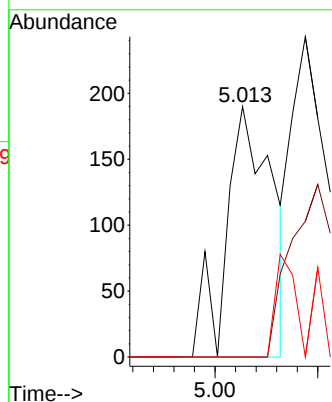
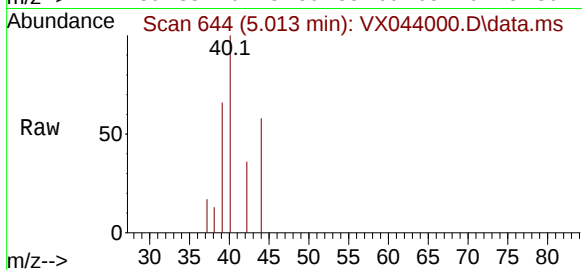
Tgt Ion: 42 Resp: 295

Ion Ratio Lower Upper

42 100

72 0.0 36.4 54.6#

71 0.0 33.4 50.0#



#31

Cyclohexane

Concen: 1.446 ug/l

RT: 5.550 min Scan# 732

Delta R.T. 0.091 min

Lab File: VX044000.D

Acq: 25 Nov 2024 20:26

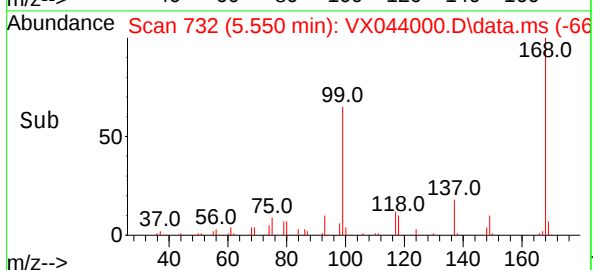
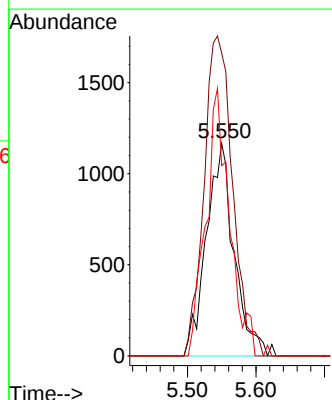
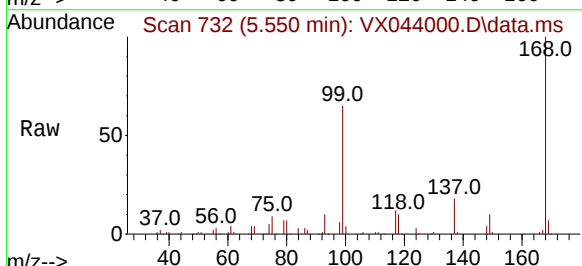
Tgt Ion: 56 Resp: 3281

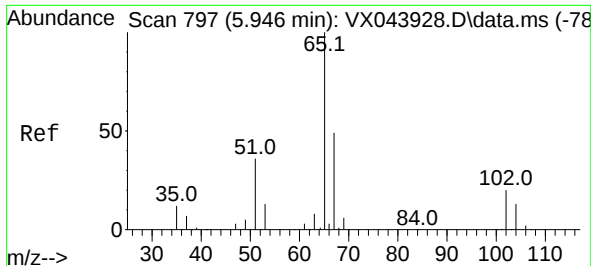
Ion Ratio Lower Upper

56 100

69 142.4 24.7 37.1#

84 89.5 68.7 103.1





#33

1,2-Dichloroethane-d4

Concen: 50.207 ug/l

RT: 5.952 min Scan# 798

Delta R.T. 0.006 min

Lab File: VX044000.D

Acq: 25 Nov 2024 20:26

Instrument :

MSVOA_X

ClientSampleId :

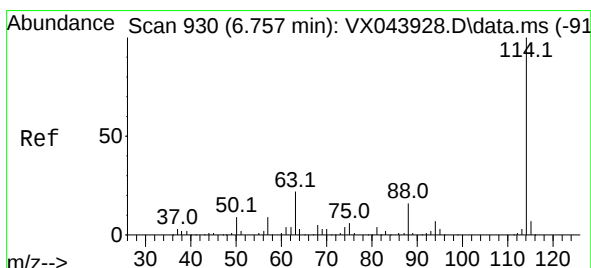
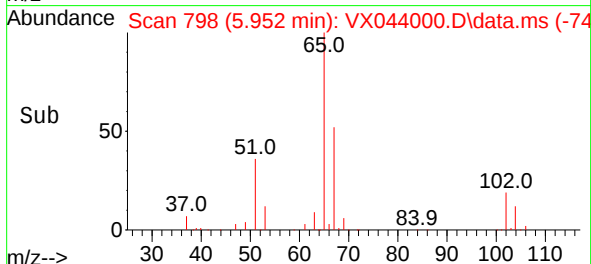
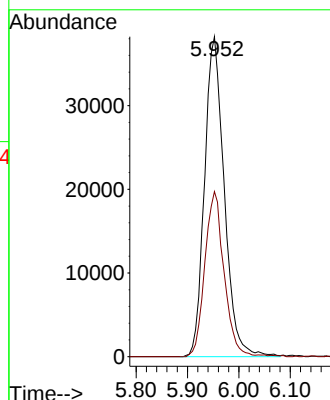
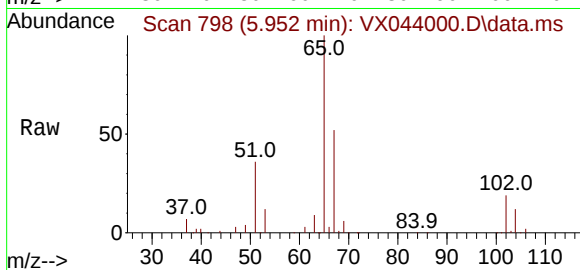
MH-734

Tgt Ion: 65 Resp: 102246

Ion Ratio Lower Upper

65 100

67 49.9 0.0 100.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. -0.000 min

Lab File: VX044000.D

Acq: 25 Nov 2024 20:26

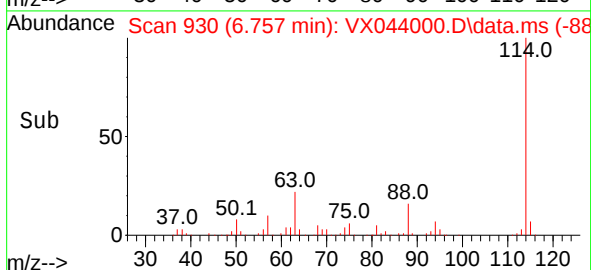
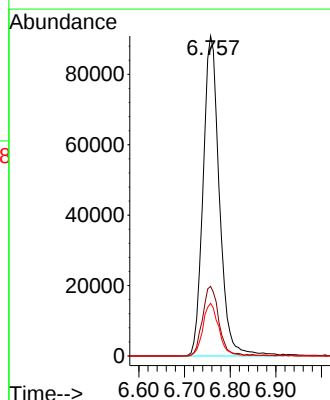
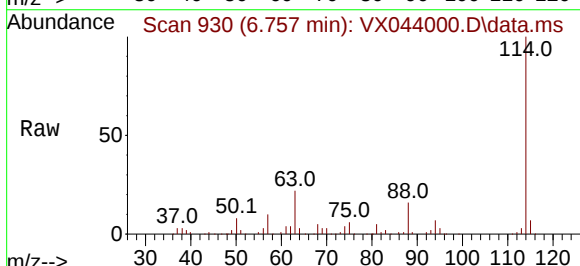
Tgt Ion: 114 Resp: 225451

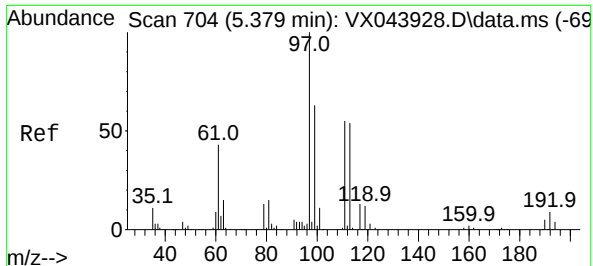
Ion Ratio Lower Upper

114 100

63 21.8 0.0 44.0

88 16.5 0.0 32.4





#35

Dibromofluoromethane

Concen: 47.788 ug/l

RT: 5.385 min Scan# 704

Delta R.T. 0.006 min

Lab File: VX044000.D

Acq: 25 Nov 2024 20:26

Instrument :

MSVOA_X

ClientSampleId :

MH-734

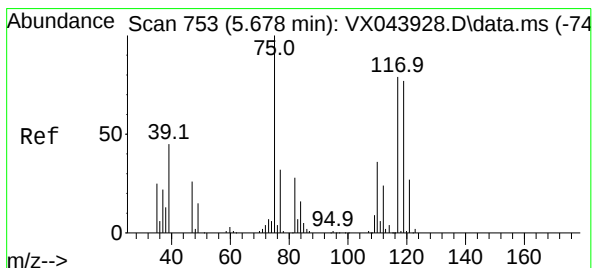
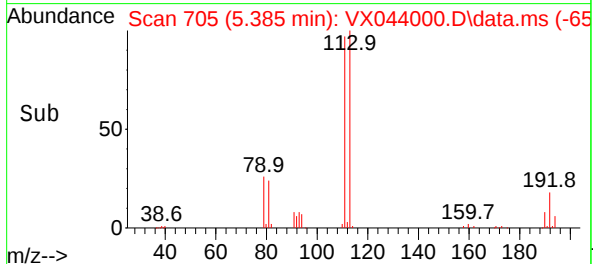
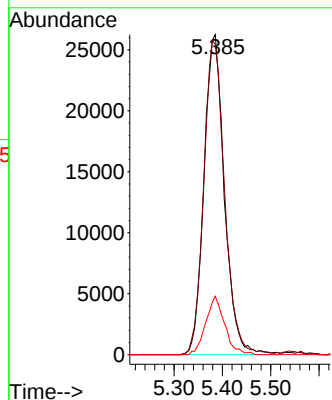
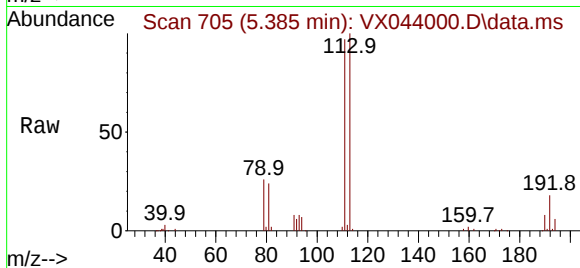
Tgt Ion:113 Resp: 76985

Ion Ratio Lower Upper

113 100

111 100.5 81.0 121.4

192 16.9 13.0 19.6



#36

1,1-Dichloropropene

Concen: 5.499 ug/l

RT: 5.544 min Scan# 731

Delta R.T. -0.134 min

Lab File: VX044000.D

Acq: 25 Nov 2024 20:26

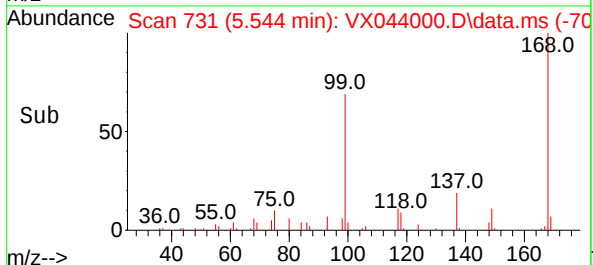
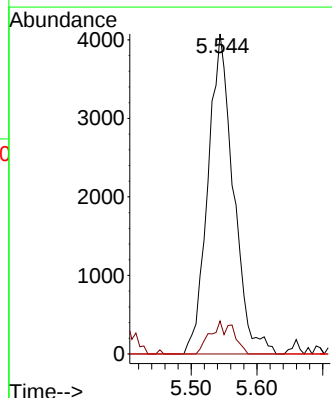
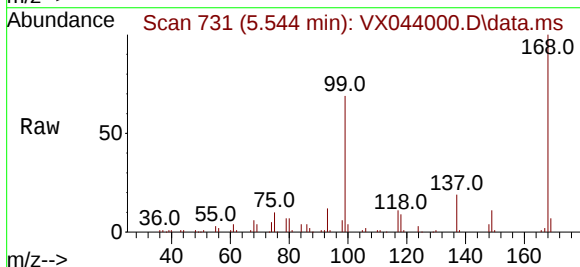
Tgt Ion: 75 Resp: 11038

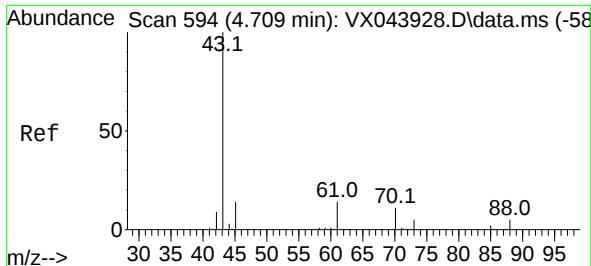
Ion Ratio Lower Upper

75 100

110 5.6 17.4 52.2#

77 0.0 25.8 38.8#





#37

Ethyl Acetate

Concen: 0.588 ug/l

RT: 4.733 min Scan# 51

Delta R.T. 0.024 min

Lab File: VX044000.D

Acq: 25 Nov 2024 20:26

Instrument :

MSVOA_X

ClientSampleId :

MH-734

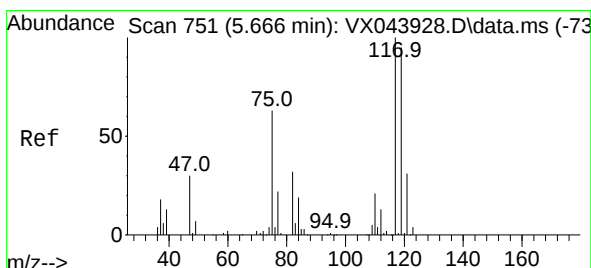
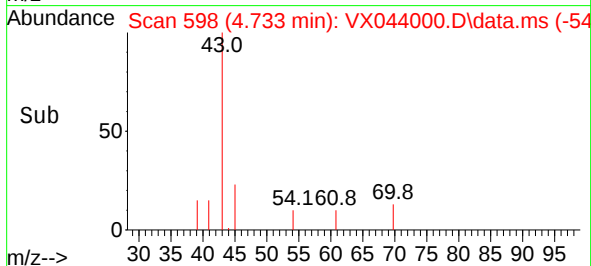
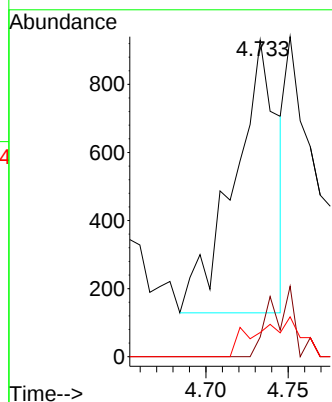
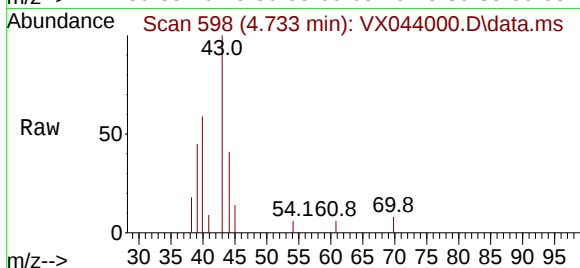
Tgt Ion: 43 Resp: 1464

Ion Ratio Lower Upper

43 100

61 14.4 10.7 16.1

70 15.1 8.0 12.0#



#38

Carbon Tetrachloride

Concen: 6.033 ug/l

RT: 5.550 min Scan# 732

Delta R.T. -0.116 min

Lab File: VX044000.D

Acq: 25 Nov 2024 20:26

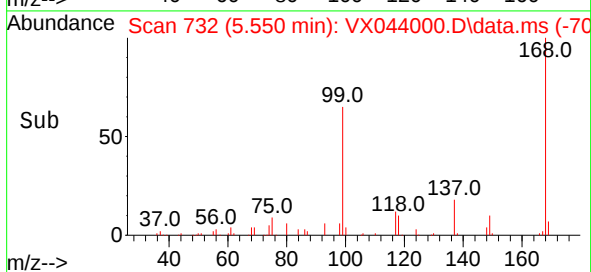
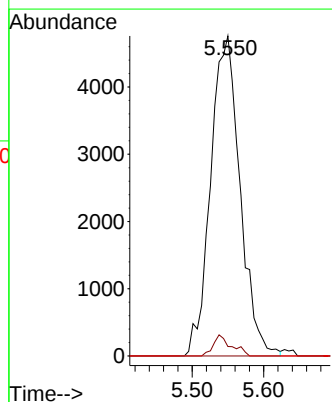
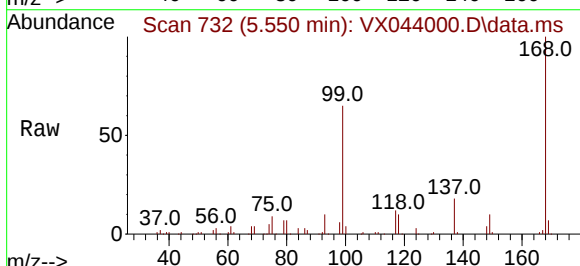
Tgt Ion: 117 Resp: 13608

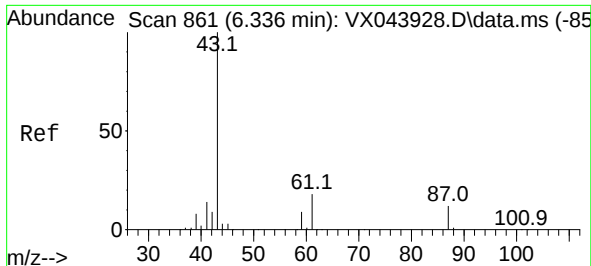
Ion Ratio Lower Upper

117 100

119 2.9 75.2 112.8#

121 0.0 24.5 36.7#





#43

Isopropyl Acetate

Concen: 30.071 ug/l

RT: 6.342 min Scan# 861

Delta R.T. 0.006 min

Lab File: VX044000.D

Acq: 25 Nov 2024 20:26

Instrument :

MSVOA_X

ClientSampleId :

MH-734

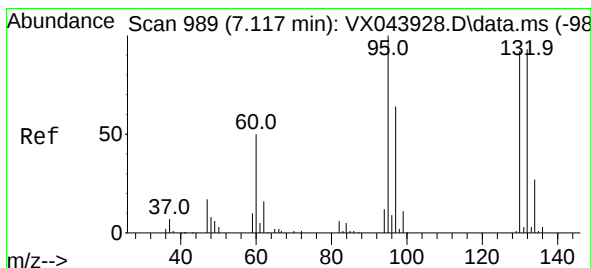
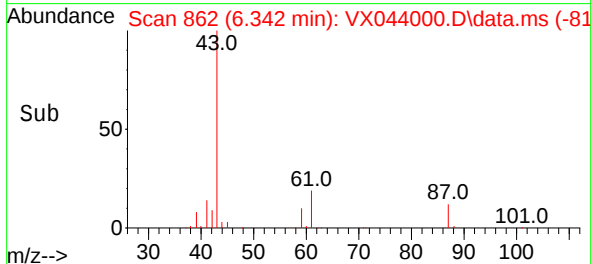
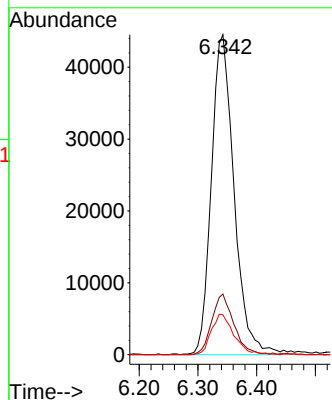
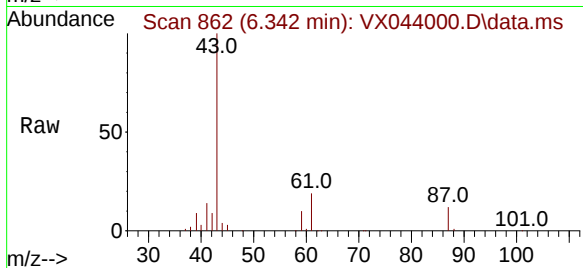
Tgt Ion: 43 Resp: 119254

Ion Ratio Lower Upper

43 100

61 18.3 14.5 21.7

87 12.7 10.2 15.2



#44

Trichloroethene

Concen: 0.350 ug/l

RT: 7.129 min Scan# 991

Delta R.T. 0.012 min

Lab File: VX044000.D

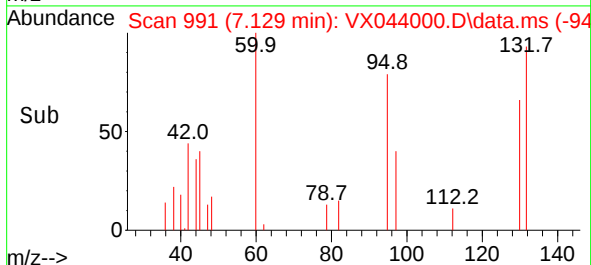
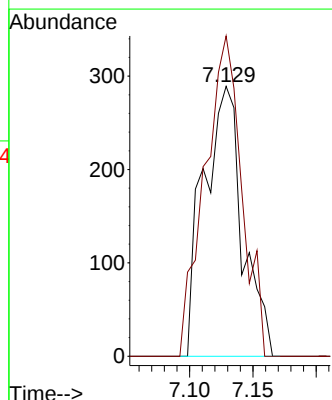
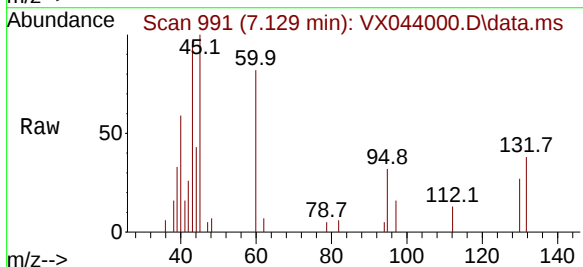
Acq: 25 Nov 2024 20:26

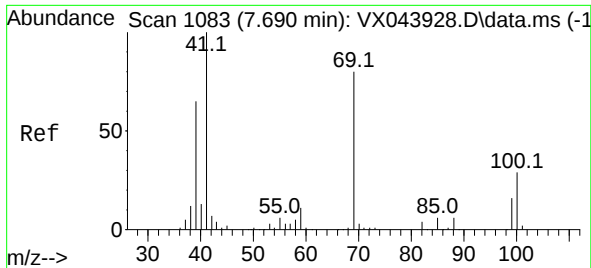
Tgt Ion:130 Resp: 619

Ion Ratio Lower Upper

130 100

95 118.7 0.0 217.8





#48

Methyl methacrylate

Concen: 55.252 ug/l

RT: 7.799 min Scan# 1101

Delta R.T. 0.110 min

Lab File: VX044000.D

Acq: 25 Nov 2024 20:26

Instrument :

MSVOA_X

ClientSampleId :

MH-734

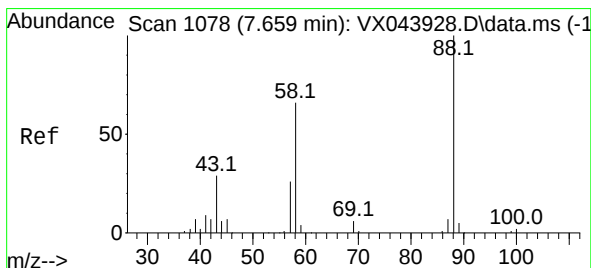
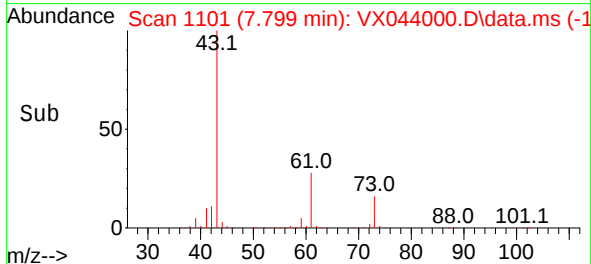
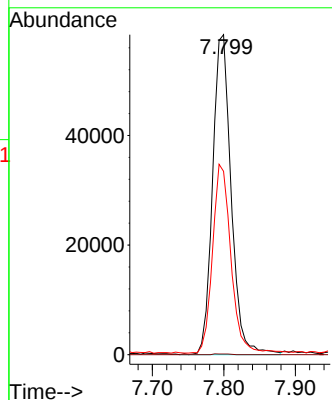
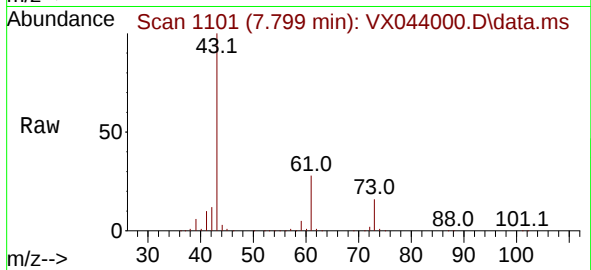
Tgt Ion: 41 Resp: 105139

Ion Ratio Lower Upper

41 100

69 0.2 64.6 97.0#

39 58.6 53.3 79.9



#49

1,4-Dioxane

Concen: 6.048 ug/l

RT: 7.799 min Scan# 1101

Delta R.T. 0.140 min

Lab File: VX044000.D

Acq: 25 Nov 2024 20:26

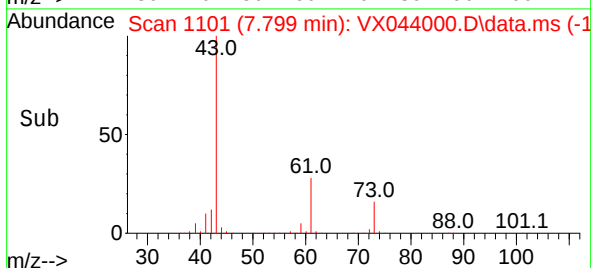
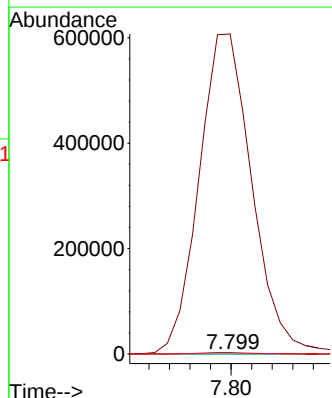
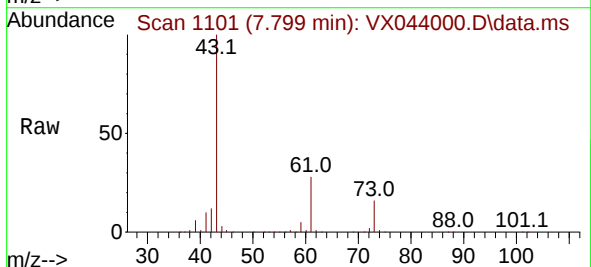
Tgt Ion: 88 Resp: 205

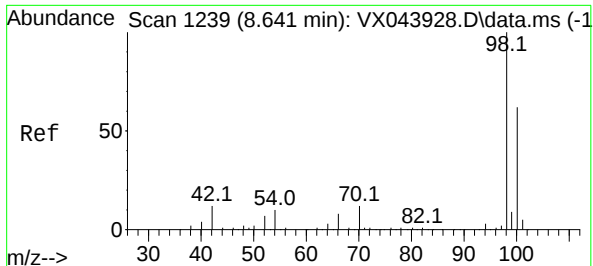
Ion Ratio Lower Upper

88 100

43 537390.2 26.8 40.2#

58 2386.3 45.4 68.2#





#50

Toluene-d8

Concen: 49.480 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.006 min

Lab File: VX044000.D

Acq: 25 Nov 2024 20:26

Instrument :

MSVOA_X

ClientSampleId :

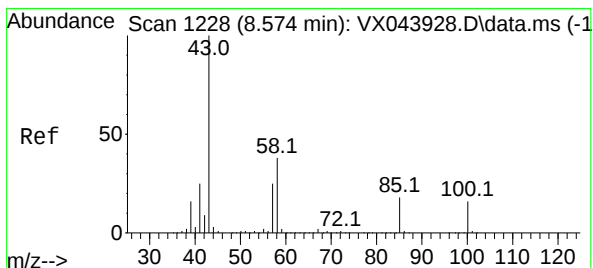
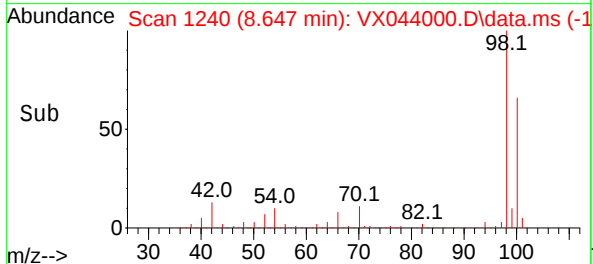
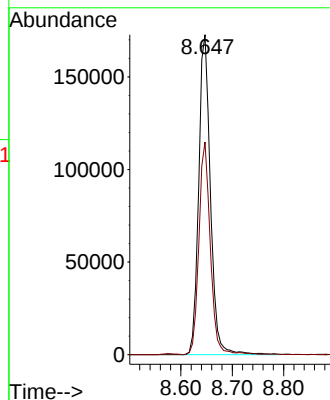
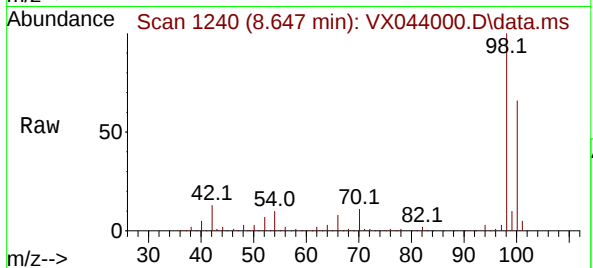
MH-734

Tgt Ion: 98 Resp: 274772

Ion Ratio Lower Upper

98 100

100 64.8 52.6 79.0



#51

4-Methyl-2-Pentanone

Concen: 37.574 ug/l

RT: 8.549 min Scan# 1224

Delta R.T. -0.024 min

Lab File: VX044000.D

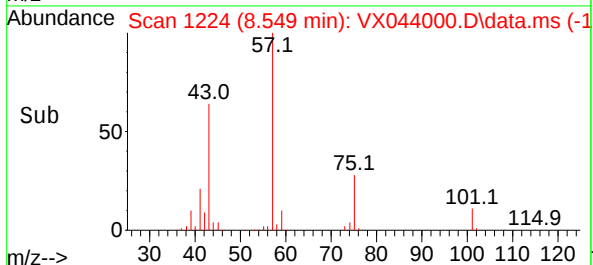
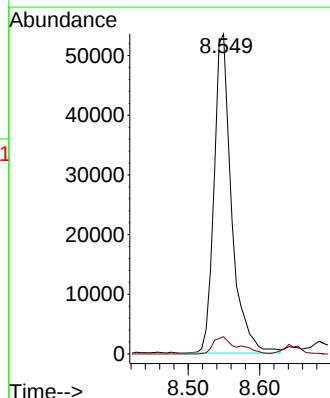
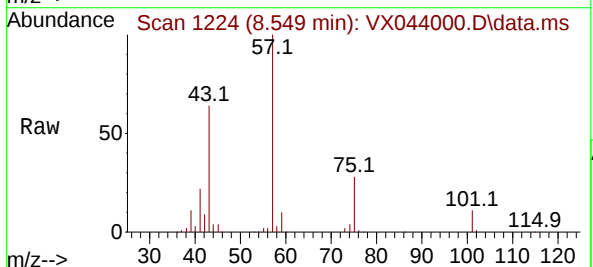
Acq: 25 Nov 2024 20:26

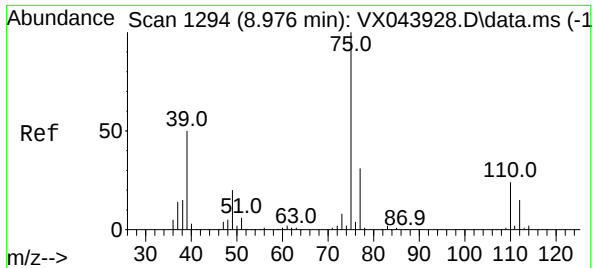
Tgt Ion: 43 Resp: 90933

Ion Ratio Lower Upper

43 100

58 7.4 30.0 45.0#





#53

t-1,3-Dichloropropene

Concen: 0.373 ug/l

RT: 8.952 min Scan# 11

Delta R.T. -0.024 min

Lab File: VX044000.D

Acq: 25 Nov 2024 20:26

Instrument :

MSVOA_X

ClientSampleId :

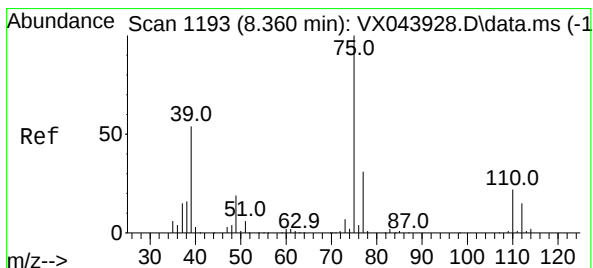
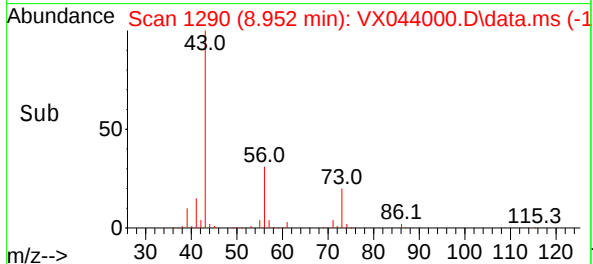
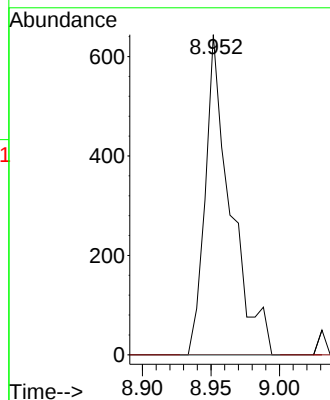
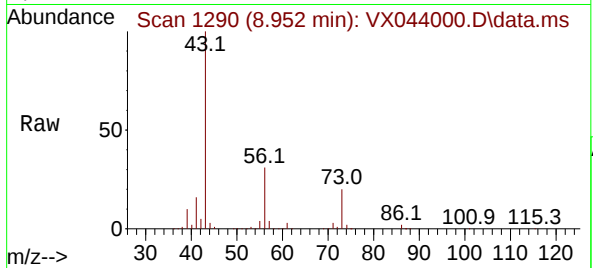
MH-734

Tgt Ion: 75 Resp: 827

Ion Ratio Lower Upper

75 100

77 0.0 25.1 37.7#



#54

cis-1,3-Dichloropropene

Concen: 15.060 ug/l

RT: 8.549 min Scan# 1224

Delta R.T. 0.189 min

Lab File: VX044000.D

Acq: 25 Nov 2024 20:26

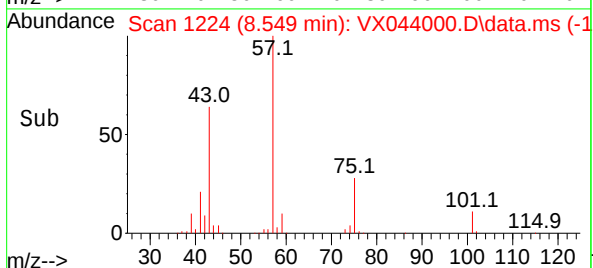
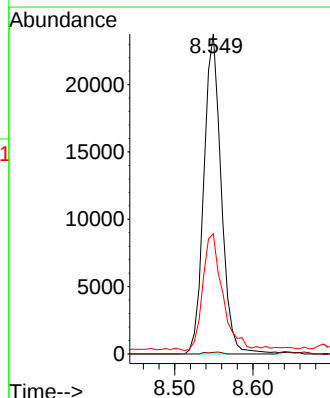
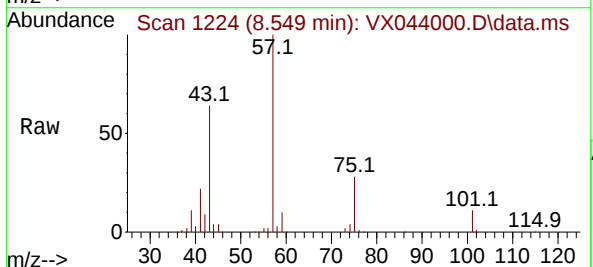
Tgt Ion: 75 Resp: 36582

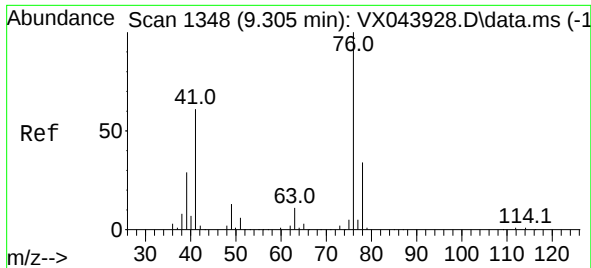
Ion Ratio Lower Upper

75 100

77 0.5 25.2 37.8#

39 36.0 43.1 64.7#

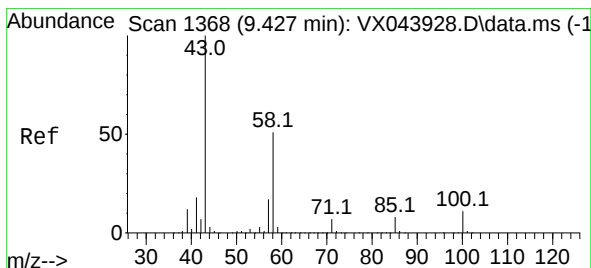
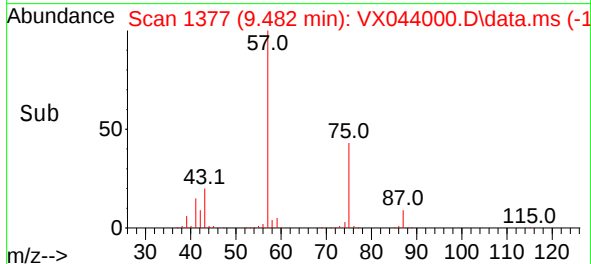
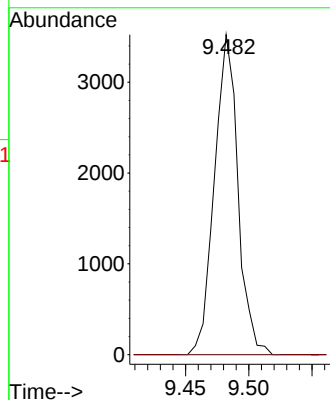
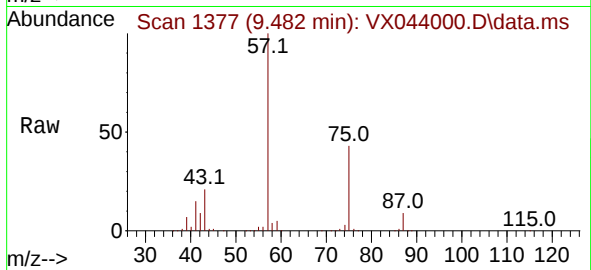




#57
1,3-Dichloropropane
Concen: 1.748 ug/l
RT: 9.482 min Scan# 1377
Delta R.T. 0.177 min
Lab File: VX044000.D
Acq: 25 Nov 2024 20:26

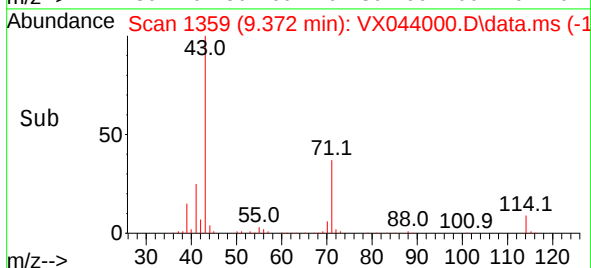
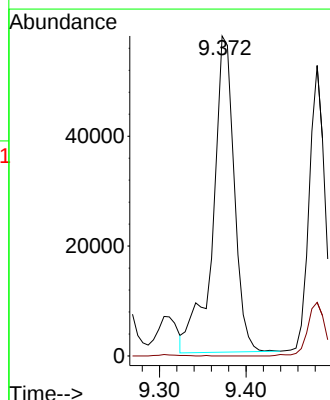
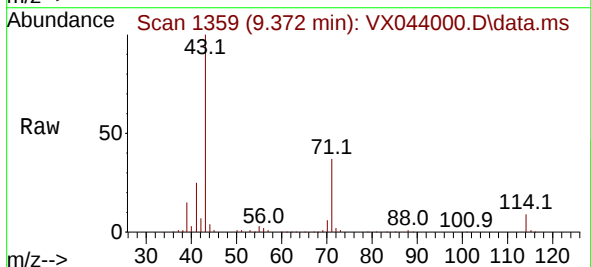
Instrument :
MSVOA_X
ClientSampleId :
MH-734

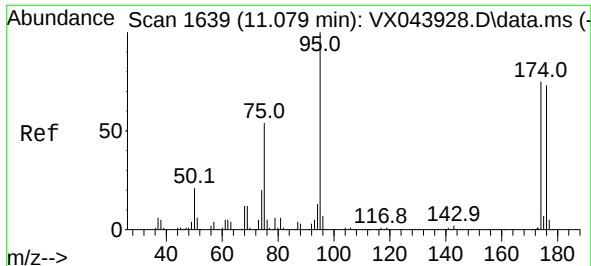
Tgt Ion: 76 Resp: 4549
Ion Ratio Lower Upper
76 100
78 0.0 26.0 39.0#



#59
2-Hexanone
Concen: 54.030 ug/l
RT: 9.372 min Scan# 1359
Delta R.T. -0.055 min
Lab File: VX044000.D
Acq: 25 Nov 2024 20:26

Tgt Ion: 43 Resp: 98280
Ion Ratio Lower Upper
43 100
58 0.0 25.9 77.6#





#62

4-Bromofluorobenzene

Concen: 49.172 ug/l

RT: 11.079 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX044000.D

Acq: 25 Nov 2024 20:26

Instrument :

MSVOA_X

ClientSampleId :

MH-734

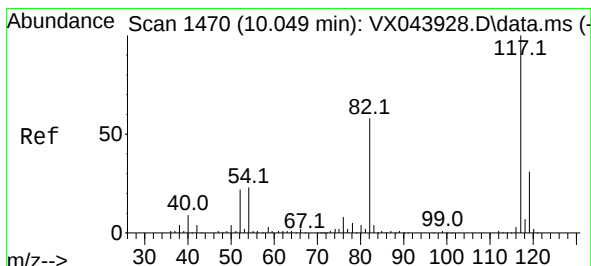
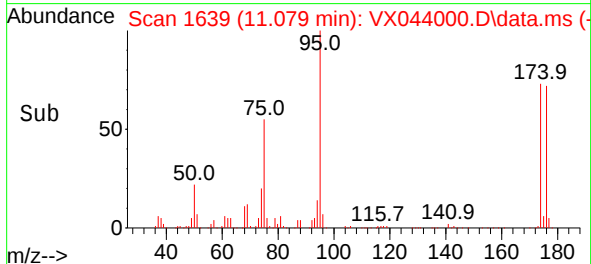
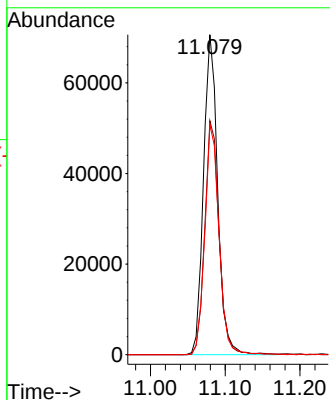
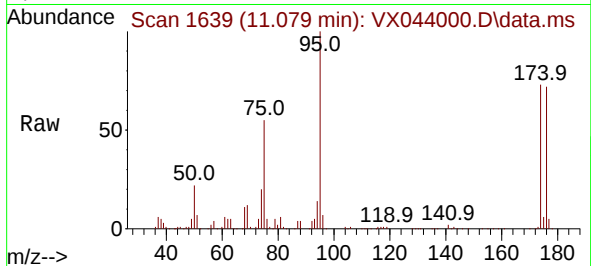
Tgt Ion: 95 Resp: 92930

Ion Ratio Lower Upper

95 100

174 73.4 0.0 150.4

176 72.5 0.0 146.0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.006 min

Lab File: VX044000.D

Acq: 25 Nov 2024 20:26

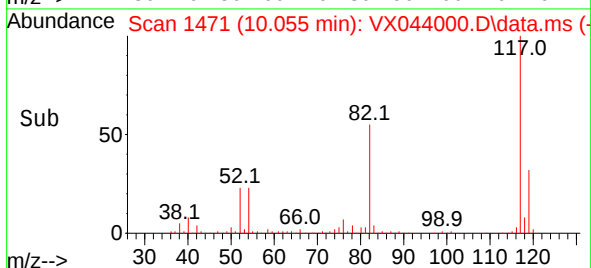
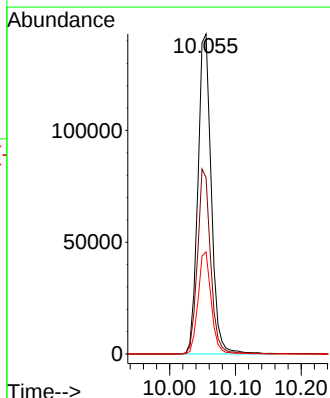
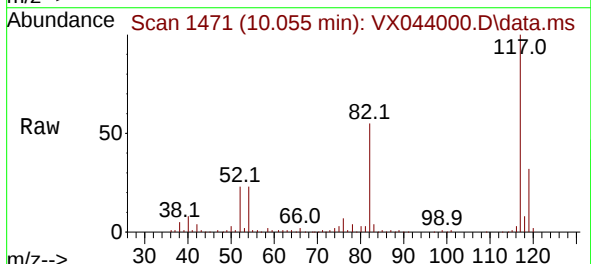
Tgt Ion: 117 Resp: 201840

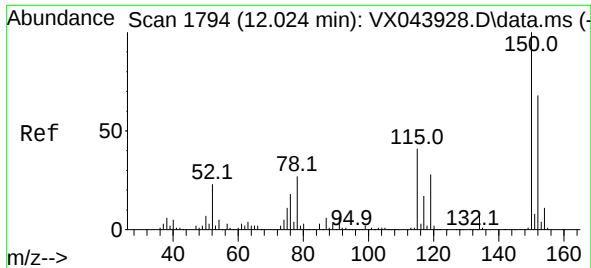
Ion Ratio Lower Upper

117 100

82 55.2 46.4 69.6

119 31.9 24.6 37.0

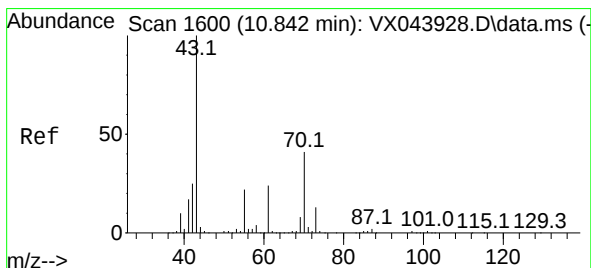
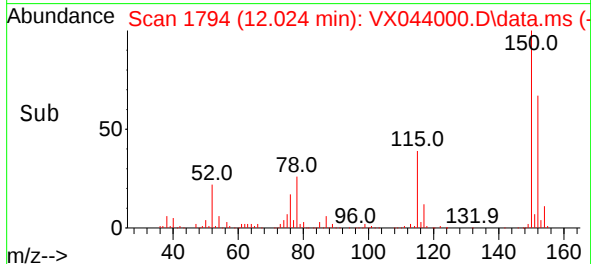
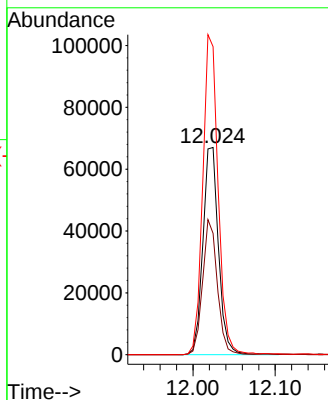
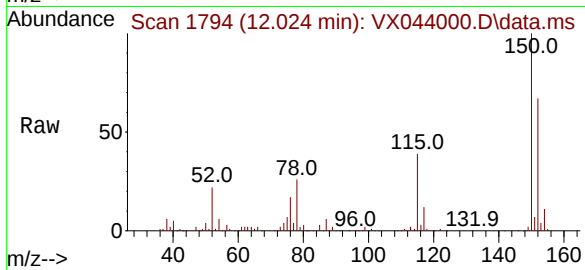




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX044000.D
Acq: 25 Nov 2024 20:26

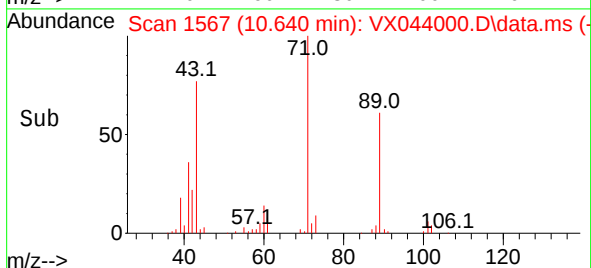
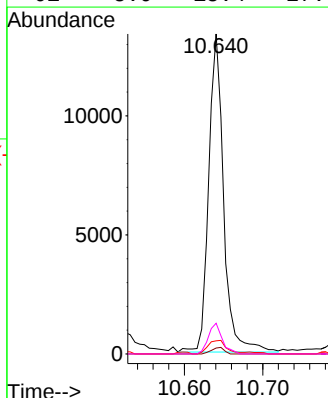
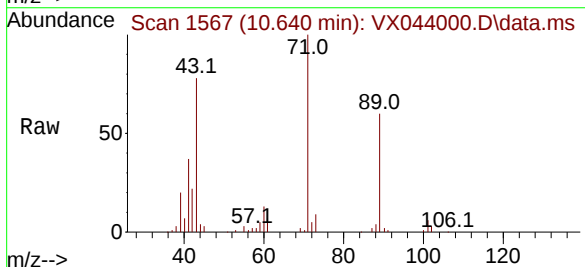
Instrument :
MSVOA_X
ClientSampleId :
MH-734

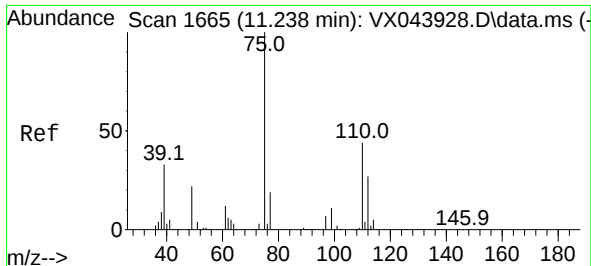
Tgt Ion:152 Resp: 88350
Ion Ratio Lower Upper
152 100
115 61.5 45.4 136.2
150 152.5 0.0 353.0



#74
N-ethyl acetate
Concen: 5.636 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.201 min
Lab File: VX044000.D
Acq: 25 Nov 2024 20:26

Tgt Ion: 43 Resp: 17730
Ion Ratio Lower Upper
43 100
70 1.7 32.2 48.2#
55 5.4 18.1 27.1#
61 8.9 18.4 27.6#





#76

1,2,3-Trichloropropane

Concen: 26.704 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.159 min

Lab File: VX044000.D

Acq: 25 Nov 2024 20:26

Instrument :

MSVOA_X

ClientSampleId :

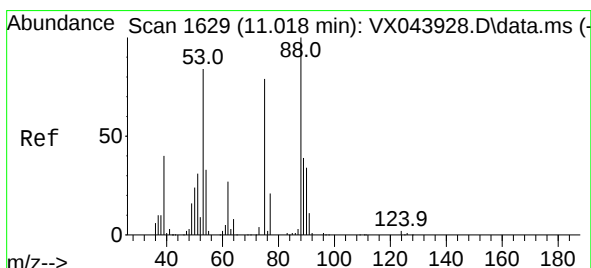
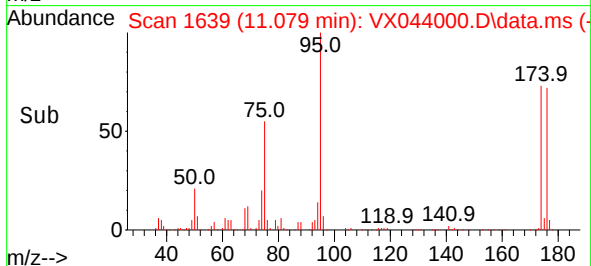
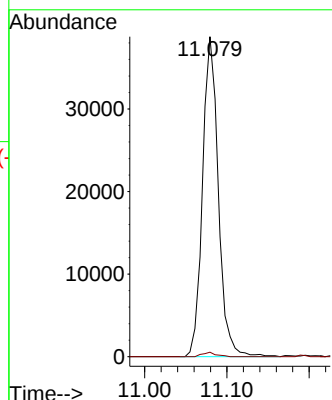
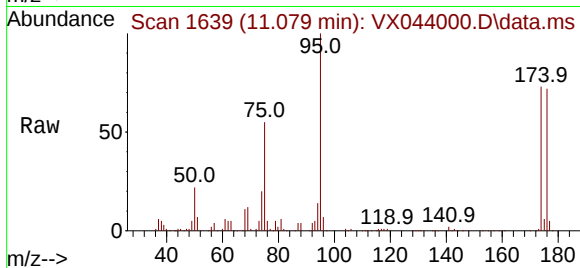
MH-734

Tgt Ion: 75 Resp: 51739

Ion Ratio Lower Upper

75 100

77 1.2 21.8 65.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 72.869 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX044000.D

Acq: 25 Nov 2024 20:26

Tgt Ion: 75 Resp: 51739

Ion Ratio Lower Upper

75 100

53 0.0 86.7 130.1#

89 0.0 38.2 57.2#

