

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022525\
 Data File : VN085852.D
 Acq On : 25 Feb 2025 13:12
 Operator : JC\MD
 Sample : IBLK
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

Quant Time: Feb 25 23:32:09 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 2025
 Response via : Initial Calibration

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

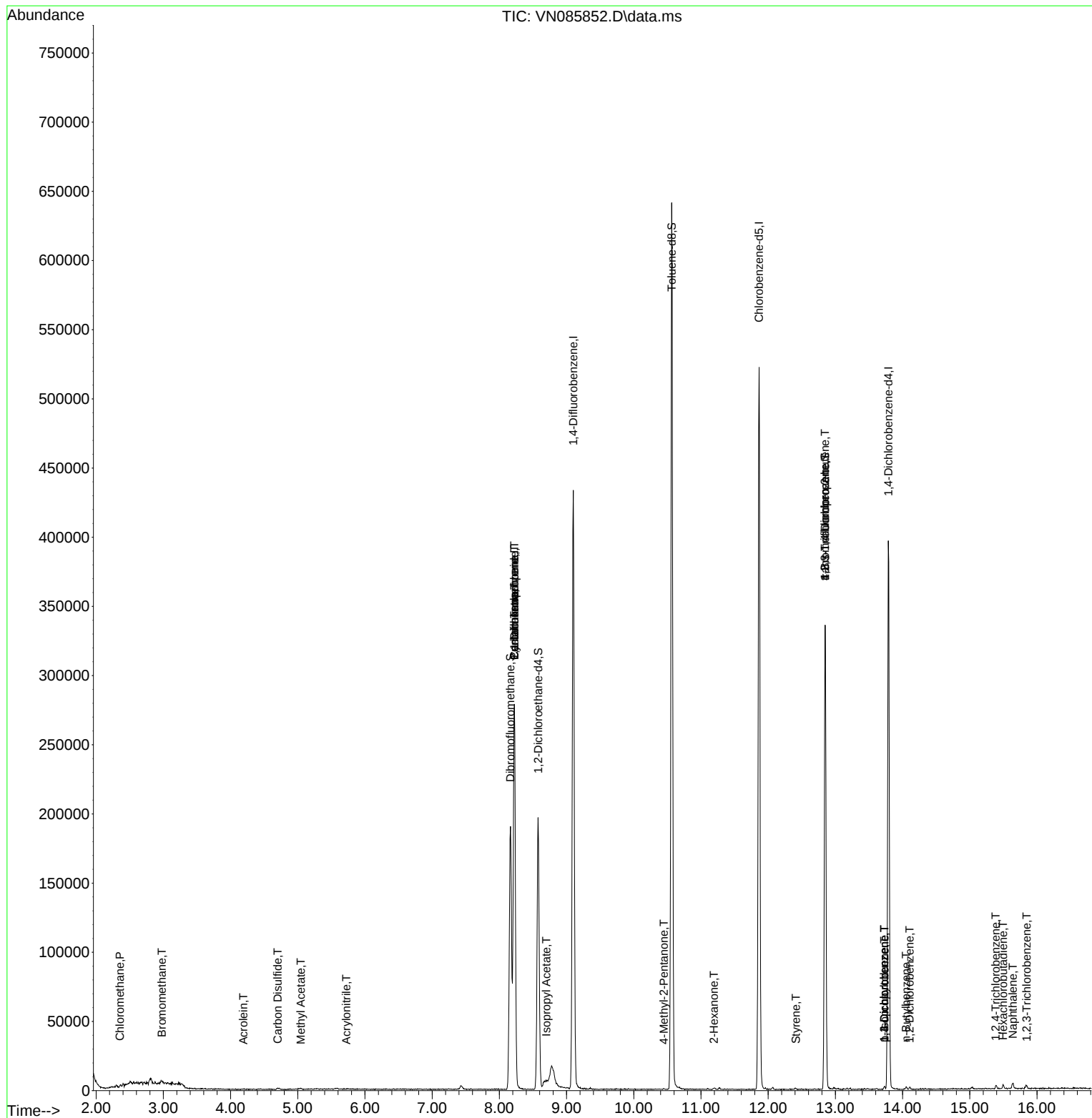
Internal Standards						
1) Pentafluorobenzene	8.224	168	202503	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	381753	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	317010	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	112020	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	159632	60.803	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 121.600%			
35) Dibromofluoromethane	8.165	113	141415	56.611	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 113.220%			
50) Toluene-d8	10.565	98	450557	49.574	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.140%			
62) 4-Bromofluorobenzene	12.847	95	121584	40.603	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 81.200%			
Target Compounds						Qvalue
3) Chloromethane	2.353	50	819	0.296	ug/l	97
5) Bromomethane	2.977	94	1236	0.661	ug/l	86
13) Acrolein	4.189	56	178	0.372	ug/l	93
15) Acrylonitrile	5.724	53	353	0.336	ug/l #	37
17) Carbon Disulfide	4.700	76	2188	0.332	ug/l #	75
18) Methyl Acetate	5.047	43	974	0.341	ug/l #	58
31) Cyclohexane	8.224	56	4422	1.179	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	16440	4.650	ug/l #	48
38) Carbon Tetrachloride	8.224	117	20746	4.939	ug/l #	20
43) Isopropyl Acetate	8.700	43	6134	0.662	ug/l #	53
51) 4-Methyl-2-Pentanone	10.447	43	697	0.248	ug/l #	60
59) 2-Hexanone	11.194	43	1032	0.535	ug/l	70
70) Styrene	12.412	104	463	0.650	ug/l #	44
76) 1,2,3-Trichloropropane	12.847	75	59422	23.880	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	59422	69.677	ug/l #	13
86) p-Isopropyltoluene	13.729	119	885	0.764	ug/l #	57
87) 1,3-Dichlorobenzene	13.729	146	1019	0.262	ug/l	72
88) 1,4-Dichlorobenzene	13.729	146	1019	0.256	ug/l	73
89) n-Butylbenzene	14.053	91	1489	0.282	ug/l #	74
91) 1,2-Dichlorobenzene	14.106	146	850	0.228	ug/l	80
93) 1,2,4-Trichlorobenzene	15.388	180	1162	0.653	ug/l #	91
94) Hexachlorobutadiene	15.494	225	962	0.889	ug/l	85
95) Naphthalene	15.641	128	4999	1.023	ug/l #	85
96) 1,2,3-Trichlorobenzene	15.847	180	1233	0.690	ug/l	95

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

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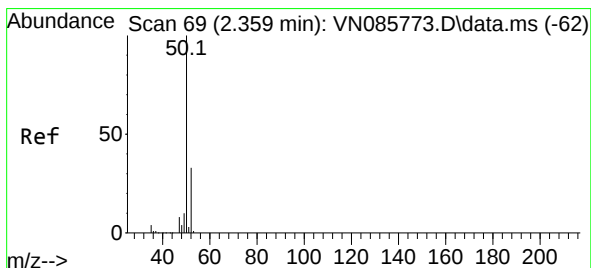
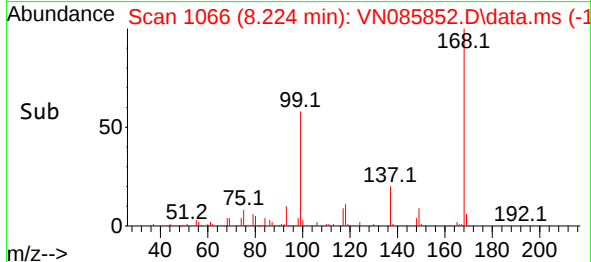
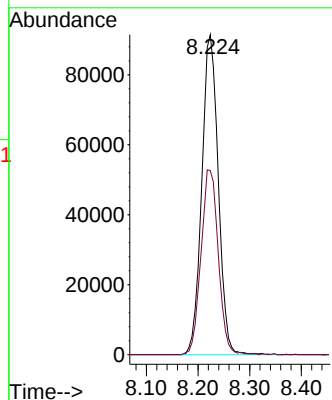
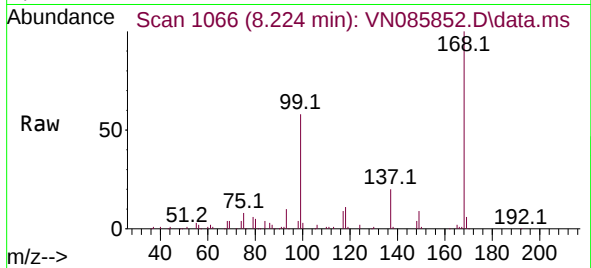




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085852.D
Acq: 25 Feb 2025 13:12

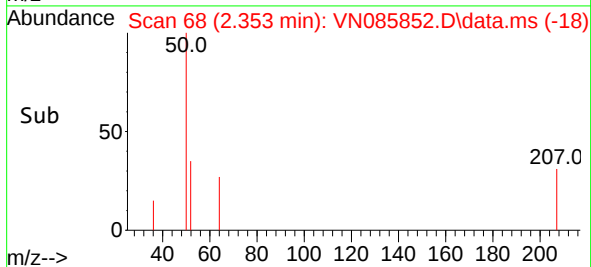
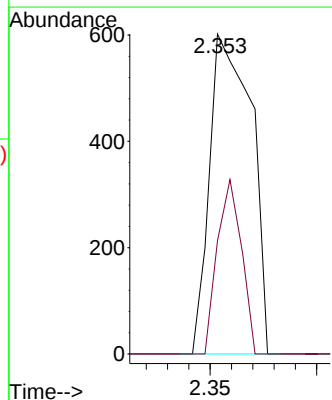
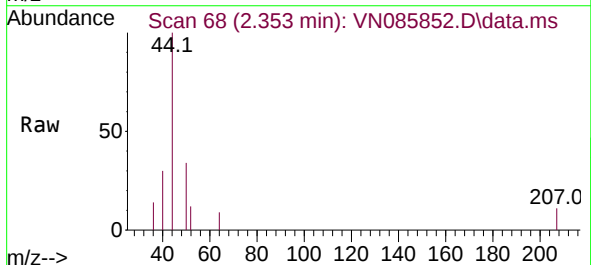
Instrument :
MSVOA_N
ClientSampleId :
IBLK

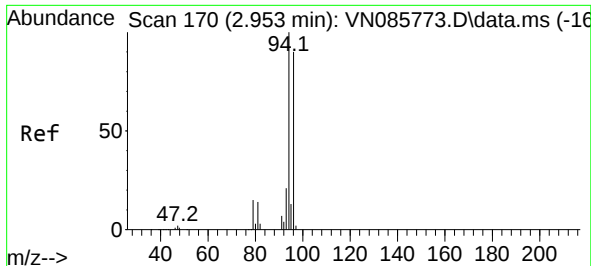
Tgt Ion:168 Resp: 202503
Ion Ratio Lower Upper
168 100
99 57.5 47.9 71.9



#3
Chloromethane
Concen: 0.296 ug/l
RT: 2.353 min Scan# 68
Delta R.T. -0.006 min
Lab File: VN085852.D
Acq: 25 Feb 2025 13:12

Tgt Ion: 50 Resp: 819
Ion Ratio Lower Upper
50 100
52 35.4 26.7 40.1

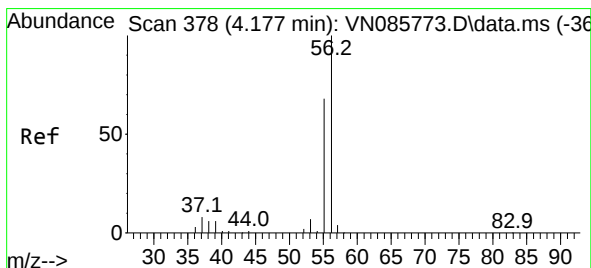
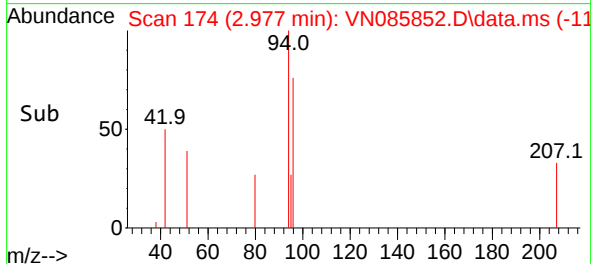
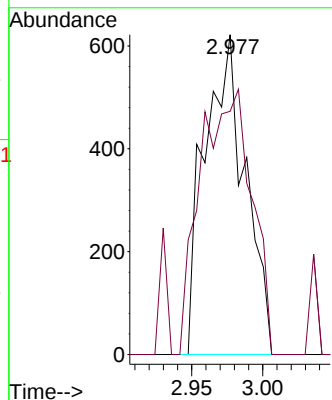
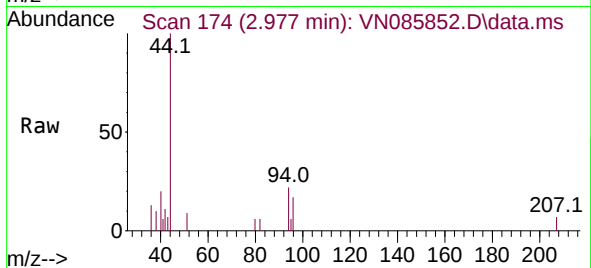




#5
Bromomethane
Concen: 0.661 ug/l
RT: 2.977 min Scan# 11
Delta R.T. 0.023 min
Lab File: VN085852.D
Acq: 25 Feb 2025 13:12

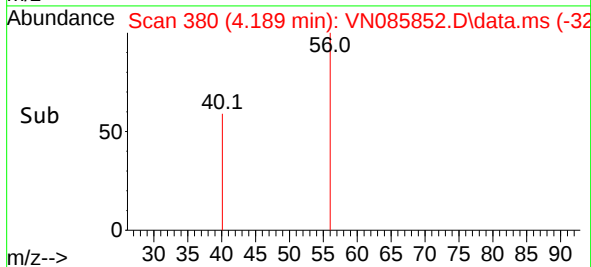
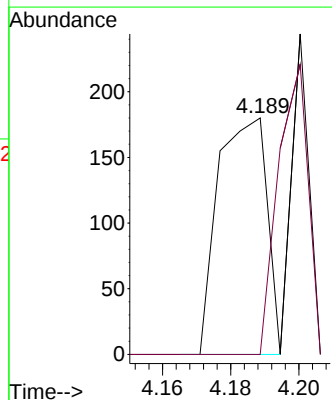
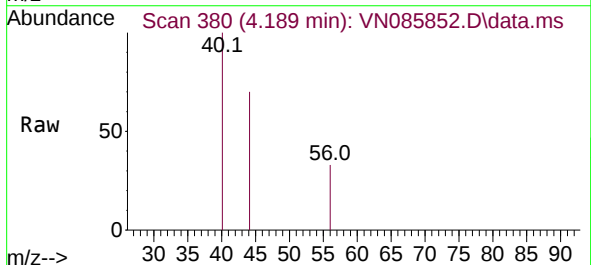
Instrument :
MSVOA_N
ClientSampleId :
IBLK

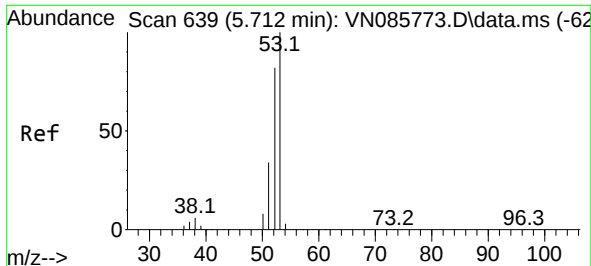
Tgt Ion: 94 Resp: 1236
Ion Ratio Lower Upper
94 100
96 76.0 71.7 107.5



#13
Acrolein
Concen: 0.372 ug/l
RT: 4.189 min Scan# 380
Delta R.T. 0.012 min
Lab File: VN085852.D
Acq: 25 Feb 2025 13:12

Tgt Ion: 56 Resp: 178
Ion Ratio Lower Upper
56 100
55 74.7 55.3 82.9

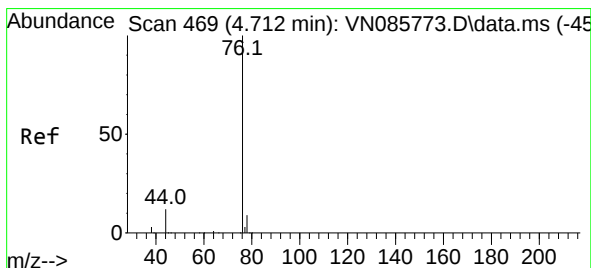
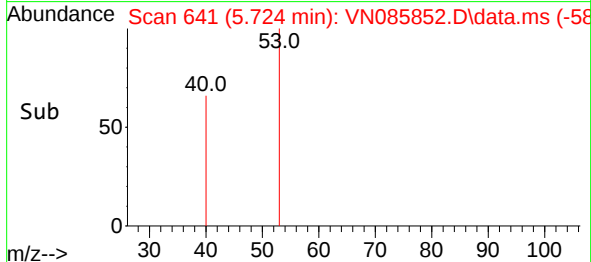
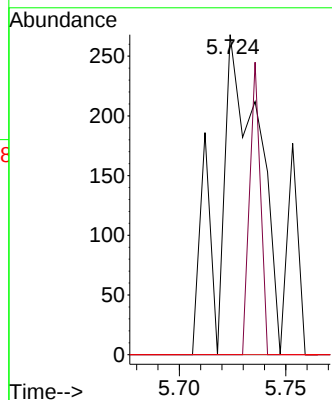
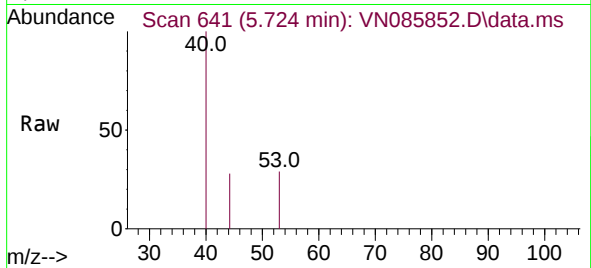




#15
Acrylonitrile
Concen: 0.336 ug/l
RT: 5.724 min Scan# 641
Delta R.T. 0.012 min
Lab File: VN085852.D
Acq: 25 Feb 2025 13:12

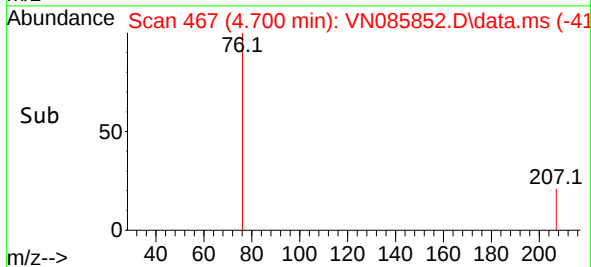
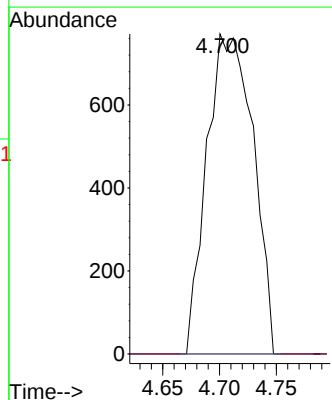
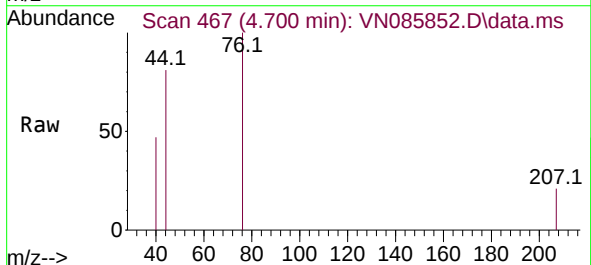
Instrument :
MSVOA_N
ClientSampleId :
IBLK

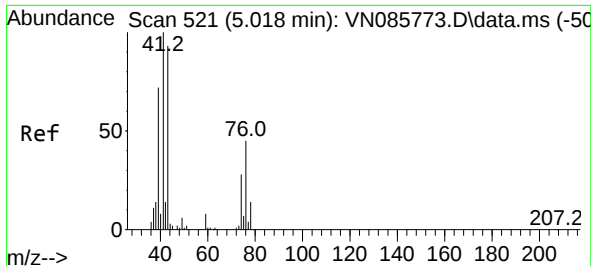
Tgt Ion: 53 Resp: 353
Ion Ratio Lower Upper
53 100
52 24.4 65.8 98.6#
51 0.0 28.6 42.8#



#17
Carbon Disulfide
Concen: 0.332 ug/l
RT: 4.700 min Scan# 467
Delta R.T. -0.012 min
Lab File: VN085852.D
Acq: 25 Feb 2025 13:12

Tgt Ion: 76 Resp: 2188
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.0#





#18

Methyl Acetate

Concen: 0.341 ug/l

RT: 5.047 min Scan# 51

Delta R.T. 0.029 min

Lab File: VN085852.D

Acq: 25 Feb 2025 13:12

Instrument :

MSVOA_N

ClientSampleId :

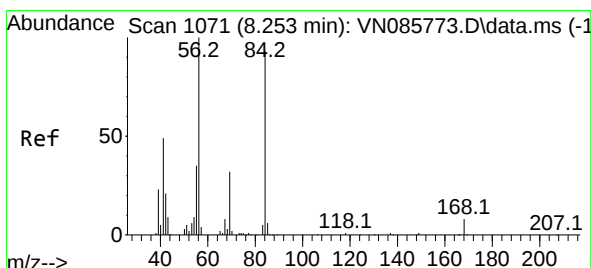
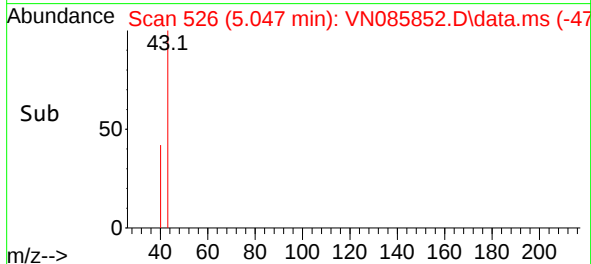
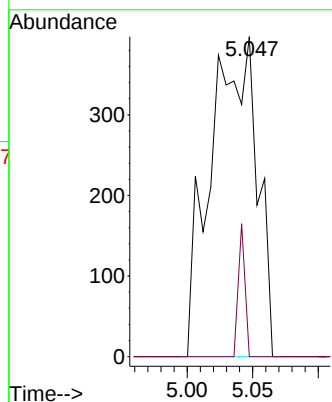
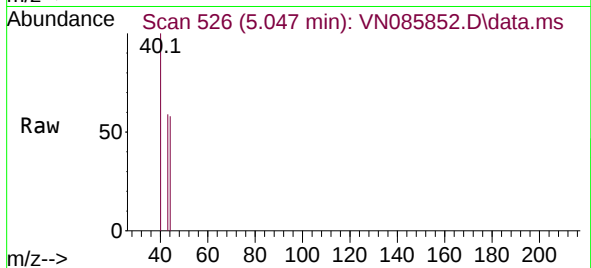
IBLK

Tgt Ion: 43 Resp: 974

Ion Ratio Lower Upper

43 100

74 6.0 22.2 33.4#



#31

Cyclohexane

Concen: 1.179 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.029 min

Lab File: VN085852.D

Acq: 25 Feb 2025 13:12

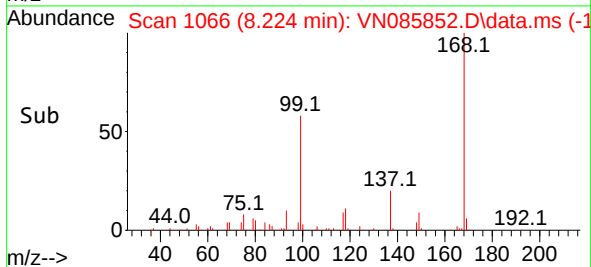
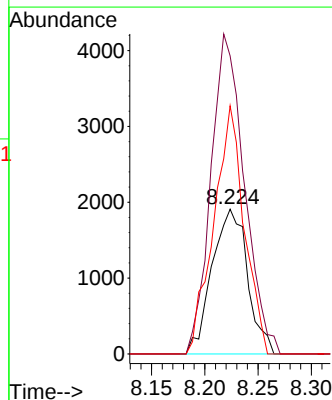
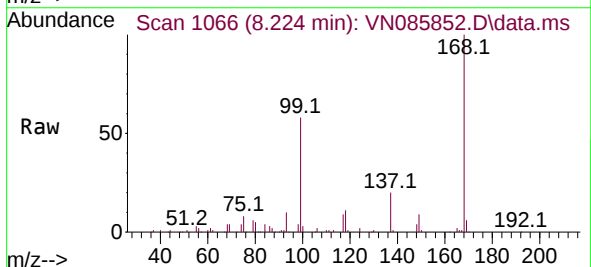
Tgt Ion: 56 Resp: 4422

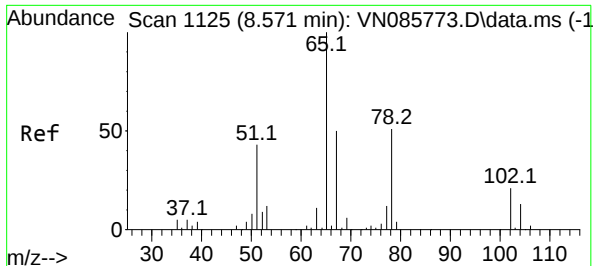
Ion Ratio Lower Upper

56 100

69 206.0 25.8 38.6#

84 171.5 74.5 111.7#





#33

1,2-Dichloroethane-d4

Concen: 60.803 ug/l

RT: 8.577 min Scan# 1125

Delta R.T. 0.006 min

Lab File: VN085852.D

Acq: 25 Feb 2025 13:12

Instrument :

MSVOA_N

ClientSampleId :

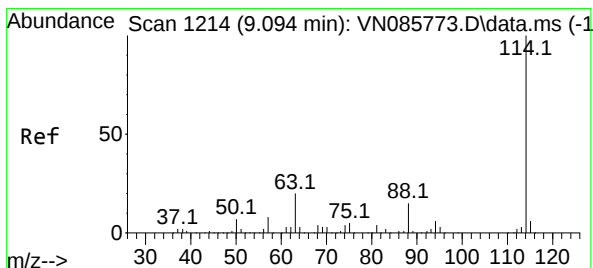
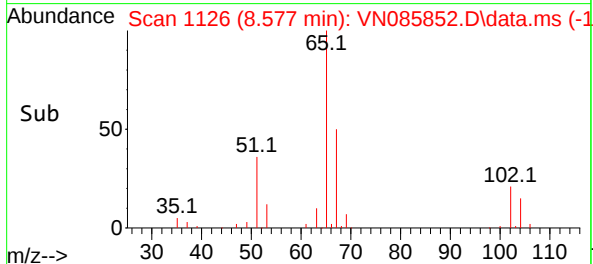
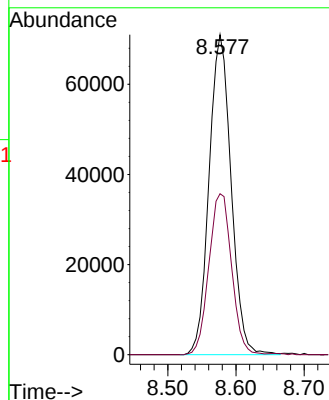
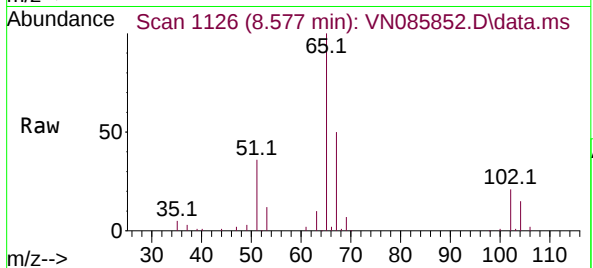
IBLK

Tgt Ion: 65 Resp: 159632

Ion Ratio Lower Upper

65 100

67 51.8 0.0 106.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.006 min

Lab File: VN085852.D

Acq: 25 Feb 2025 13:12

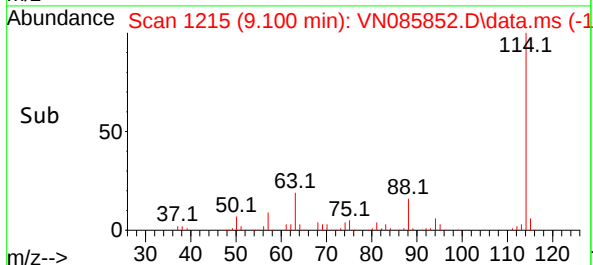
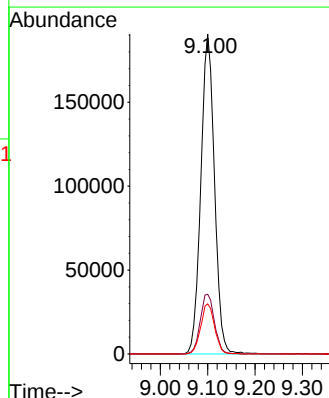
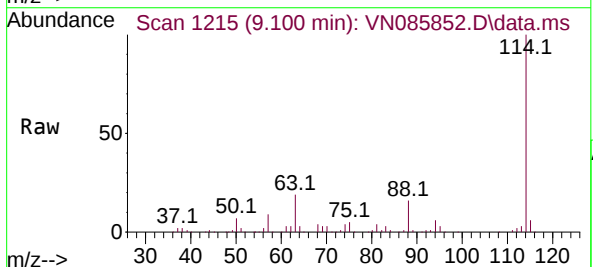
Tgt Ion: 114 Resp: 381753

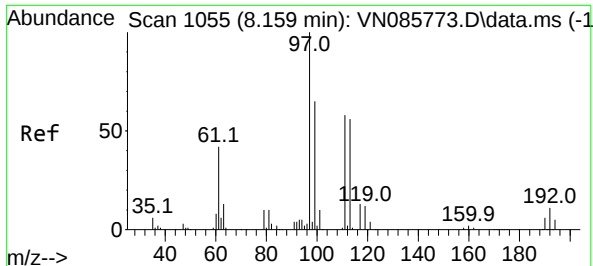
Ion Ratio Lower Upper

114 100

63 18.6 0.0 39.2

88 15.6 0.0 30.0





#35

Dibromofluoromethane

Concen: 56.611 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN085852.D

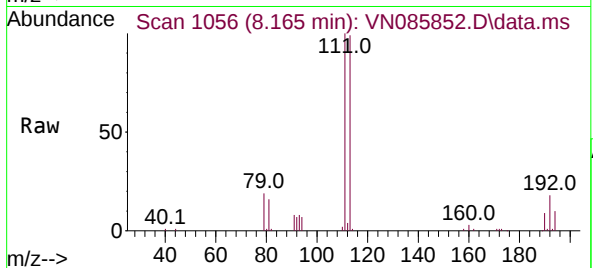
Acq: 25 Feb 2025 13:12

Instrument :

MSVOA_N

ClientSampleId :

IBLK



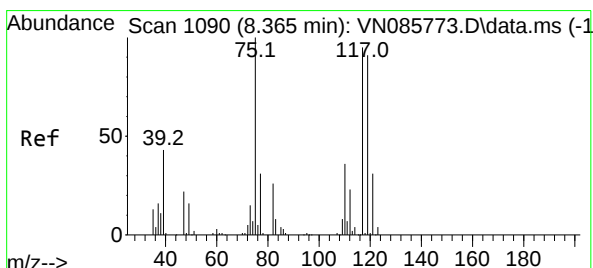
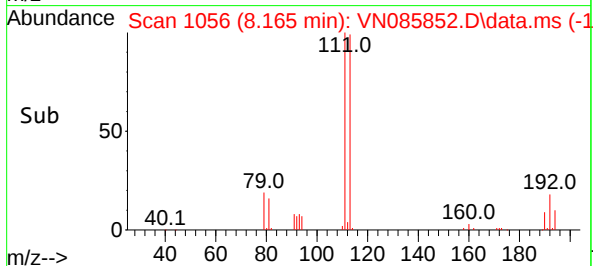
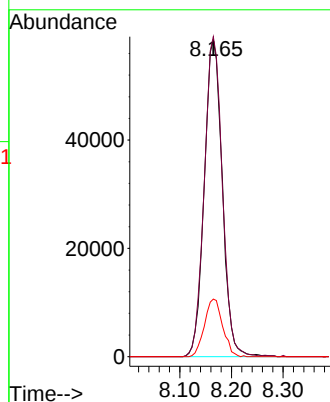
Tgt Ion:113 Resp: 141415

Ion Ratio Lower Upper

113 100

111 101.4 82.2 123.4

192 18.4 14.7 22.1



#36

1,1-Dichloropropene

Concen: 4.650 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

Lab File: VN085852.D

Acq: 25 Feb 2025 13:12

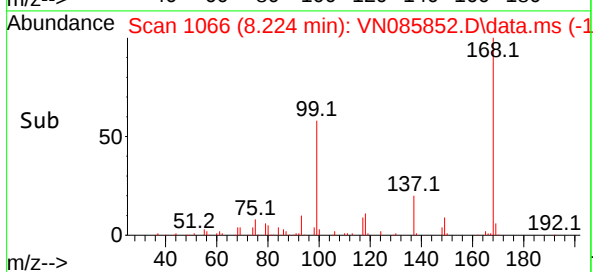
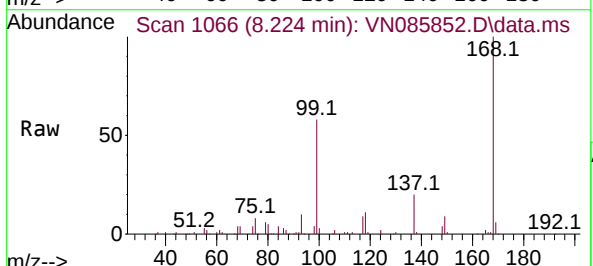
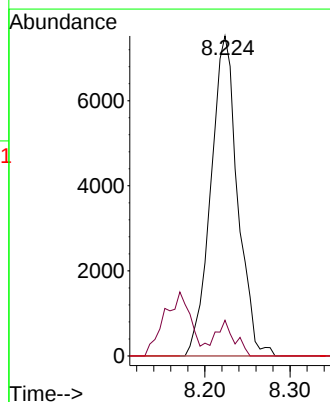
Tgt Ion: 75 Resp: 16440

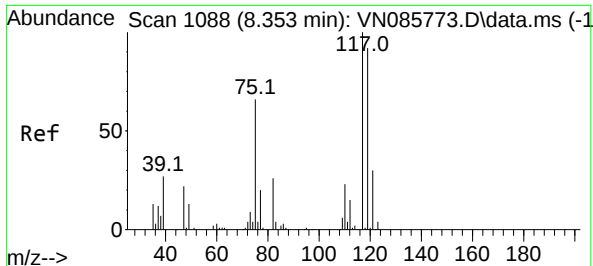
Ion Ratio Lower Upper

75 100

110 7.3 17.3 52.0#

77 0.0 24.6 37.0#





#38

Carbon Tetrachloride

Concen: 4.939 ug/l

RT: 8.224 min Scan# 1106

Delta R.T. -0.129 min

Lab File: VN085852.D

Acq: 25 Feb 2025 13:12

Instrument :

MSVOA_N

ClientSampleId :

IBLK

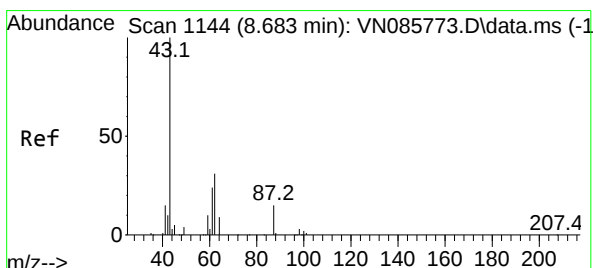
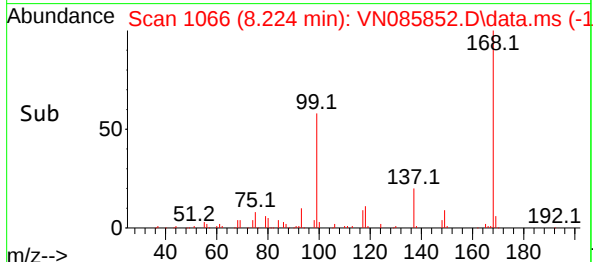
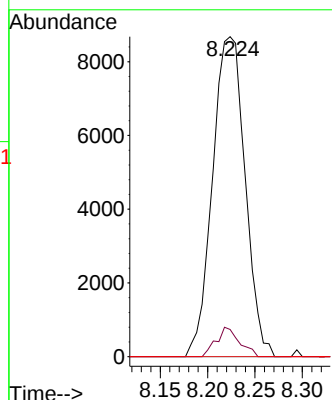
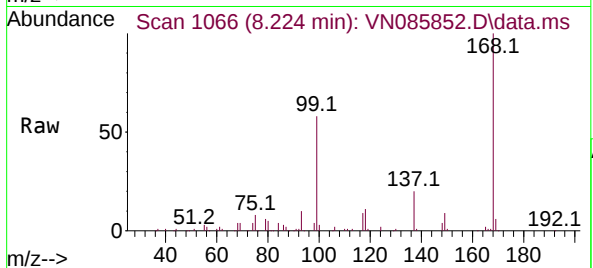
Tgt Ion:117 Resp: 20746

Ion Ratio Lower Upper

117 100

119 8.5 73.8 110.6#

121 0.0 24.3 36.5#



#43

Isopropyl Acetate

Concen: 0.662 ug/l

RT: 8.700 min Scan# 1147

Delta R.T. 0.017 min

Lab File: VN085852.D

Acq: 25 Feb 2025 13:12

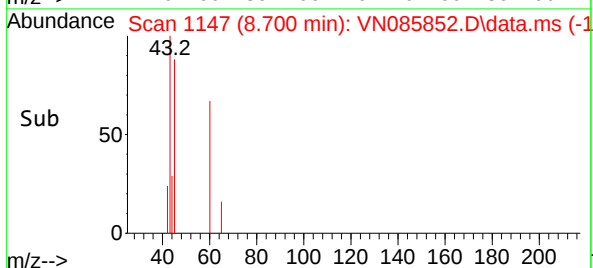
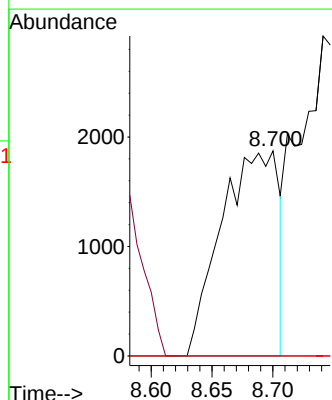
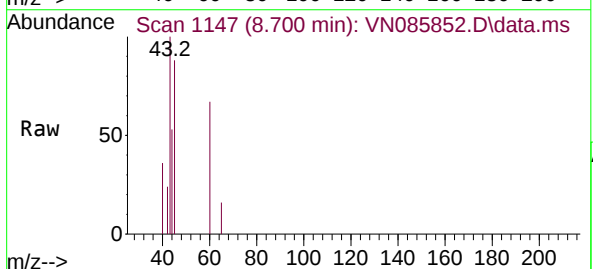
Tgt Ion: 43 Resp: 6134

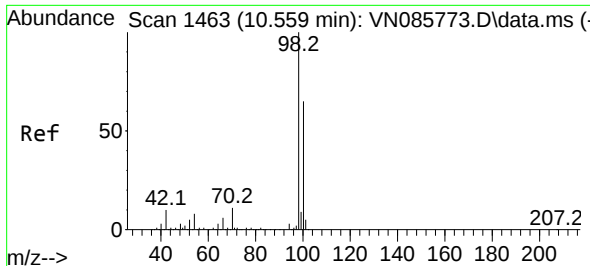
Ion Ratio Lower Upper

43 100

61 0.0 22.6 34.0#

87 0.0 11.8 17.8#

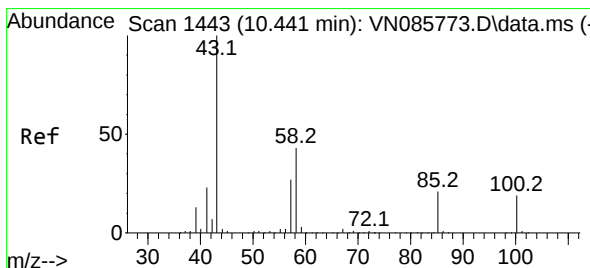
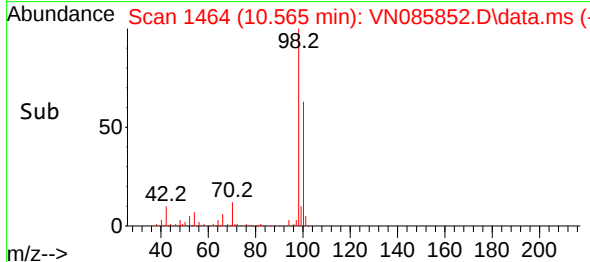
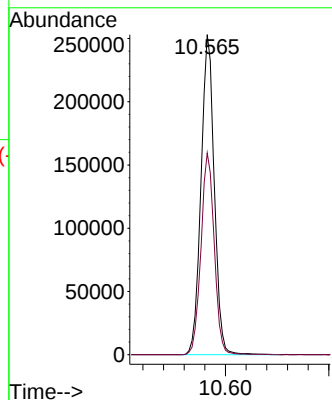
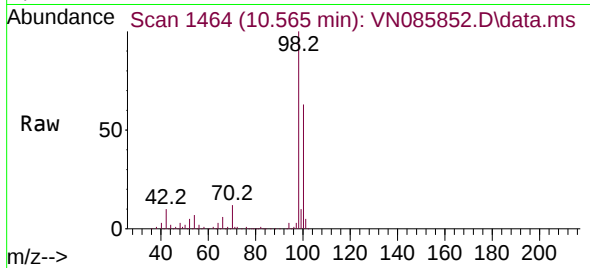




#50
Toluene-d8
Concen: 49.574 ug/l
RT: 10.565 min Scan# 1463
Delta R.T. 0.006 min
Lab File: VN085852.D
Acq: 25 Feb 2025 13:12

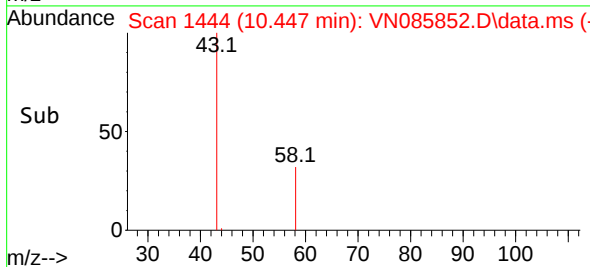
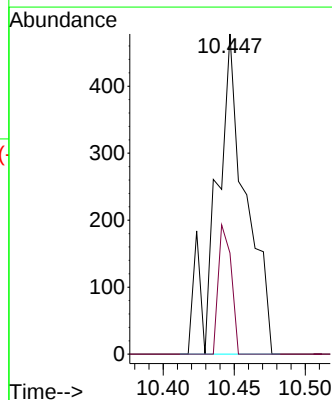
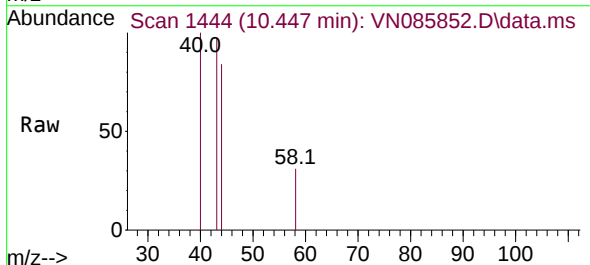
Instrument :
MSVOA_N
ClientSampleId :
IBLK

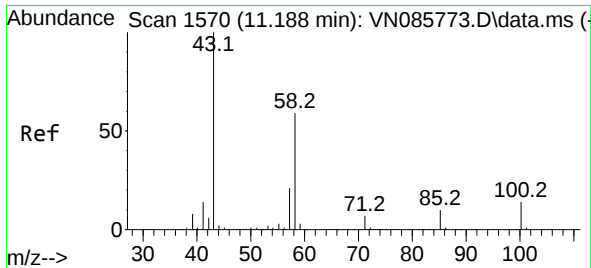
Tgt Ion: 98 Resp: 450557
Ion Ratio Lower Upper
98 100
100 62.9 52.1 78.1



#51
4-Methyl-2-Pentanone
Concen: 0.248 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.006 min
Lab File: VN085852.D
Acq: 25 Feb 2025 13:12

Tgt Ion: 43 Resp: 697
Ion Ratio Lower Upper
43 100
58 17.4 34.6 52.0#

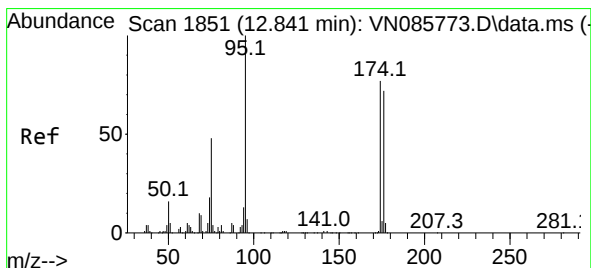
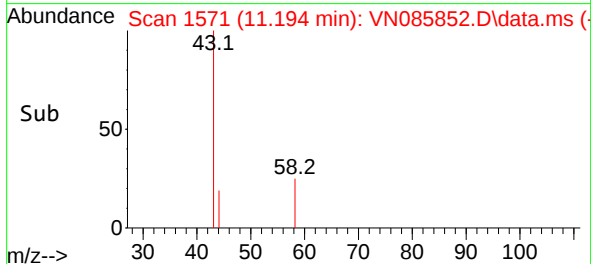
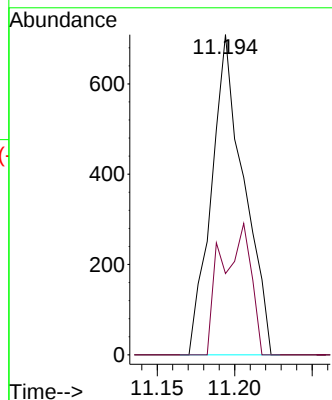
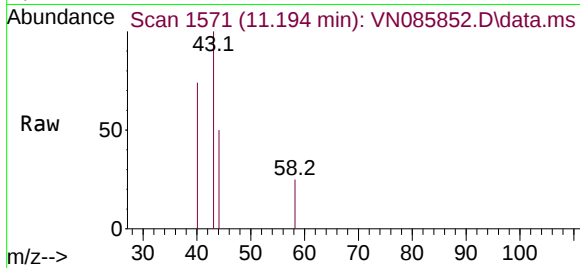




#59
2-Hexanone
Concen: 0.535 ug/l
RT: 11.194 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN085852.D
Acq: 25 Feb 2025 13:12

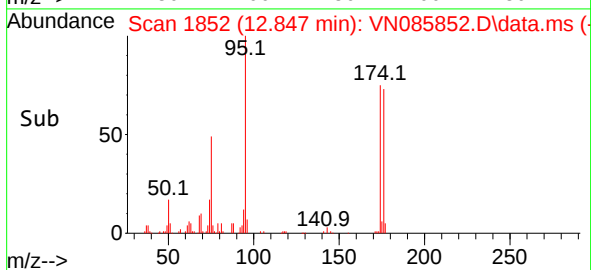
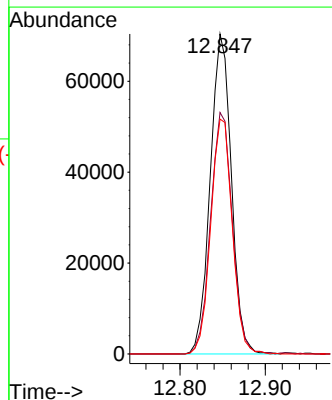
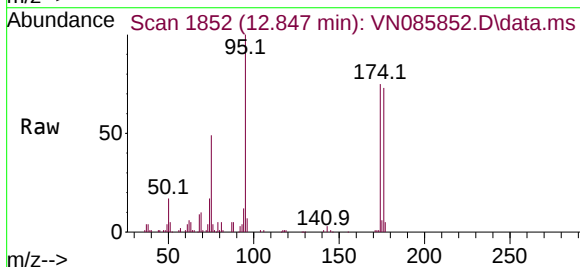
Instrument :
MSVOA_N
ClientSampleId :
IBLK

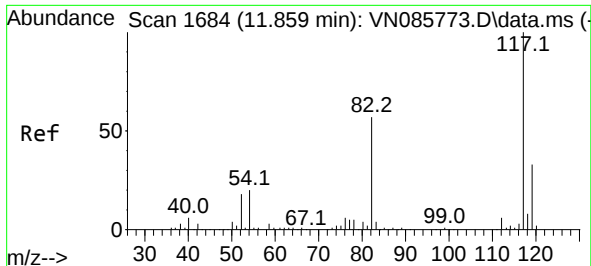
Tgt Ion: 43 Resp: 1032
Ion Ratio Lower Upper
43 100
58 37.3 29.8 89.5



#62
4-Bromofluorobenzene
Concen: 40.603 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.006 min
Lab File: VN085852.D
Acq: 25 Feb 2025 13:12

Tgt Ion: 95 Resp: 121584
Ion Ratio Lower Upper
95 100
174 77.6 0.0 152.4
176 74.7 0.0 146.6

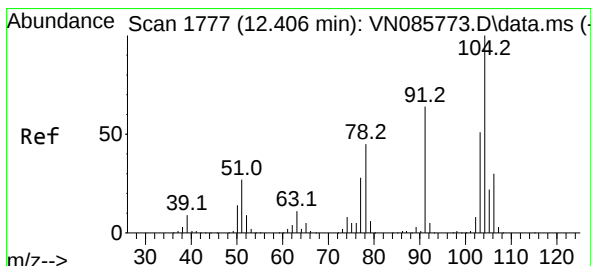
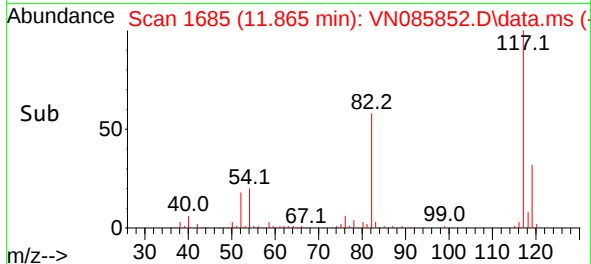
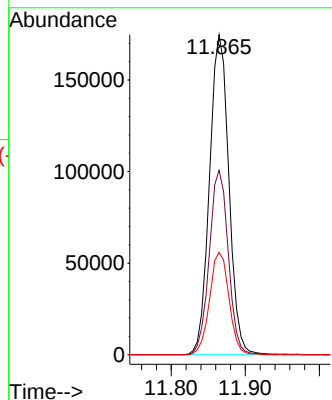
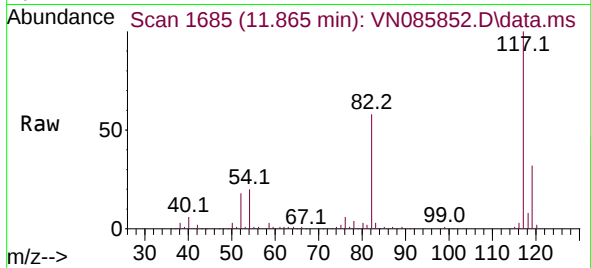




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN085852.D
Acq: 25 Feb 2025 13:12

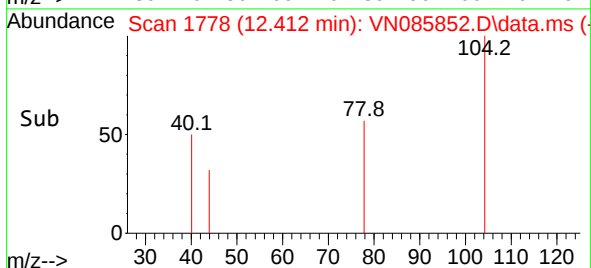
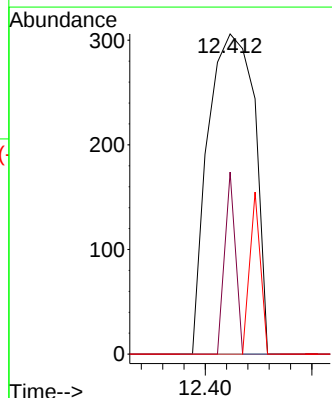
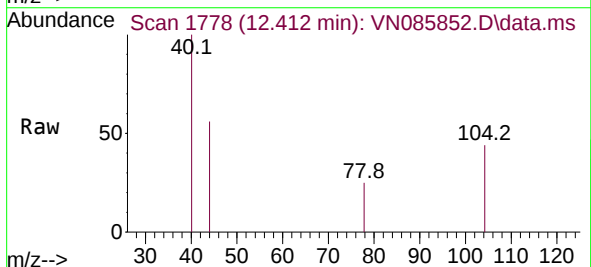
Instrument :
MSVOA_N
ClientSampleId :
IBLK

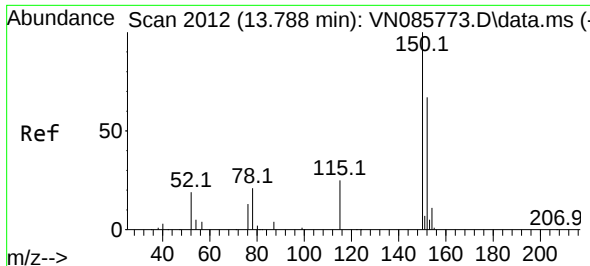
Tgt Ion:117 Resp: 317010
Ion Ratio Lower Upper
117 100
82 57.6 45.7 68.5
119 31.9 26.2 39.2



#70
Styrene
Concen: 0.650 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. 0.006 min
Lab File: VN085852.D
Acq: 25 Feb 2025 13:12

Tgt Ion:104 Resp: 463
Ion Ratio Lower Upper
104 100
78 13.2 39.0 58.6#
103 11.9 43.3 64.9#

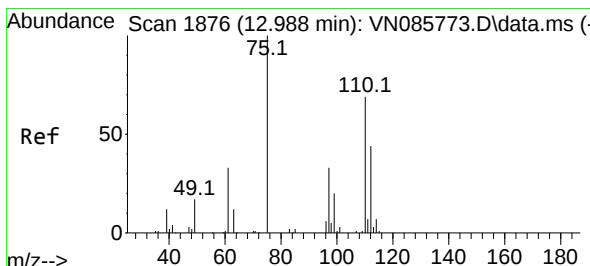
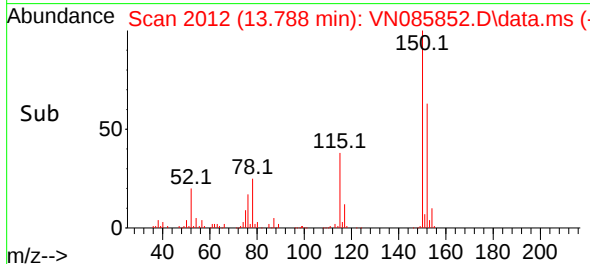
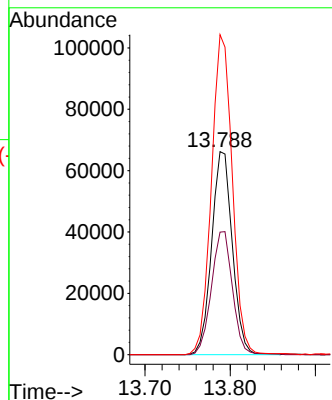
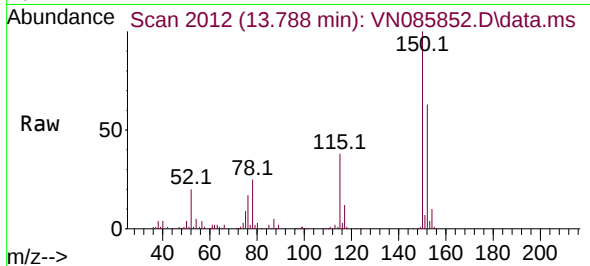




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.788 min Scan# 2012
 Delta R.T. -0.000 min
 Lab File: VN085852.D
 Acq: 25 Feb 2025 13:12

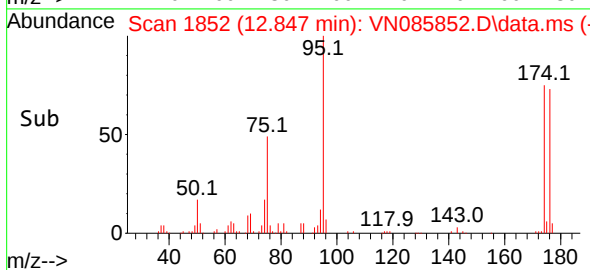
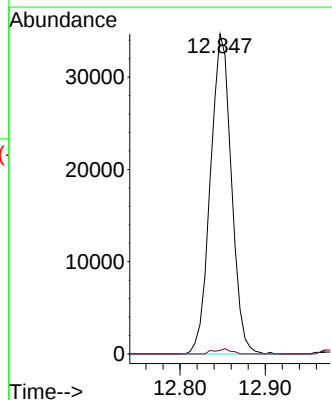
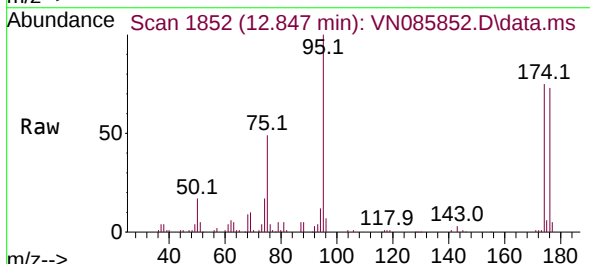
Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

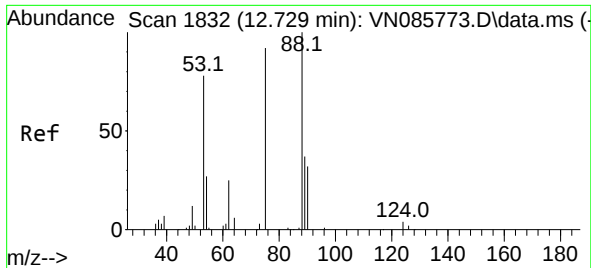
Tgt Ion:152 Resp: 112020
 Ion Ratio Lower Upper
 152 100
 115 61.6 30.4 91.3
 150 159.0 0.0 345.4



#76
 1,2,3-Trichloropropane
 Concen: 23.880 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. -0.141 min
 Lab File: VN085852.D
 Acq: 25 Feb 2025 13:12

Tgt Ion: 75 Resp: 59422
 Ion Ratio Lower Upper
 75 100
 77 1.3 100.0 300.0#

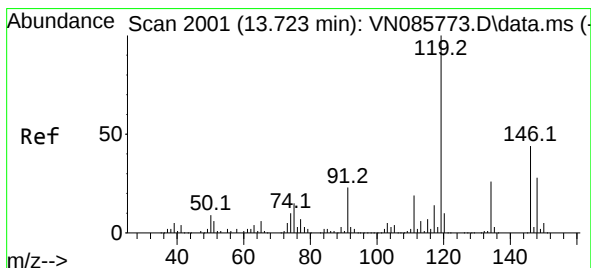
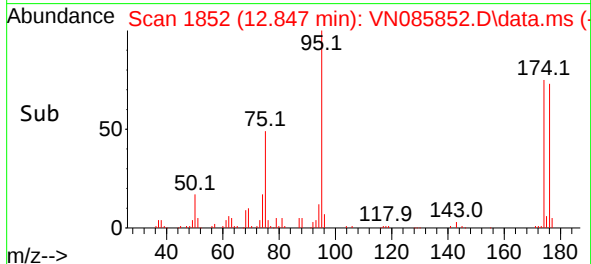
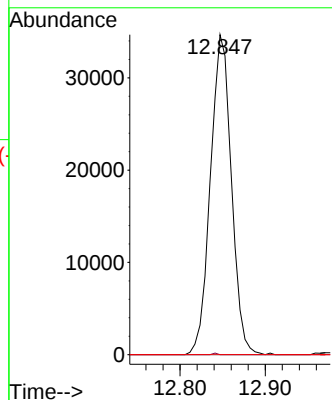
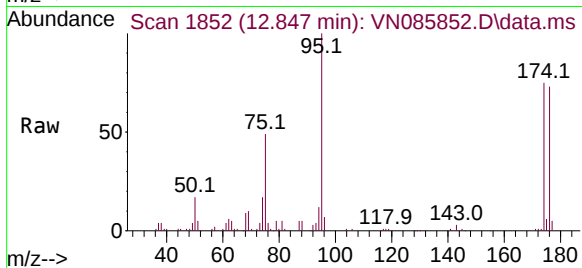




#81
trans-1,4-Dichloro-2-butene
Concen: 69.677 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.118 min
Lab File: VN085852.D
Acq: 25 Feb 2025 13:12

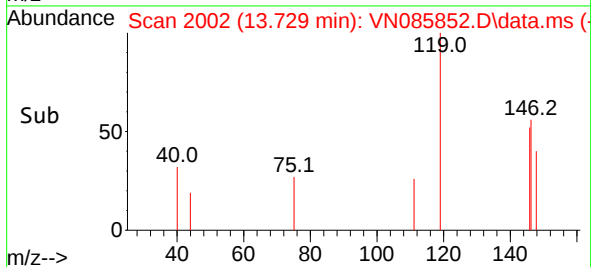
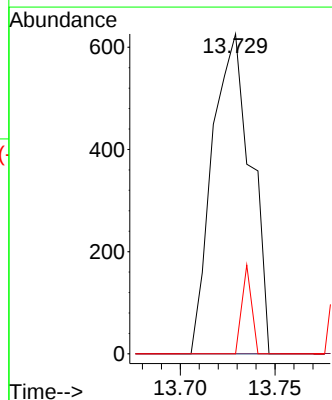
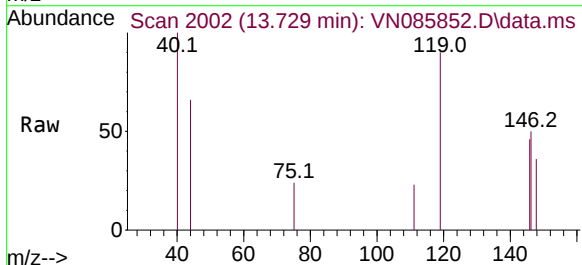
Instrument :
MSVOA_N
ClientSampleId :
IBLK

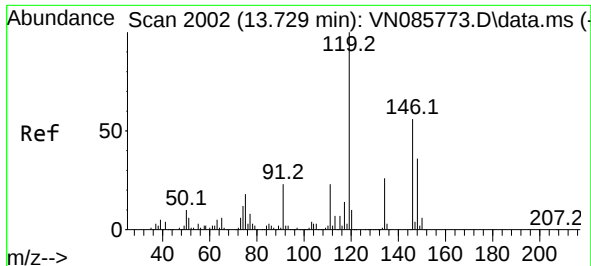
Tgt Ion: 75 Resp: 59422
Ion Ratio Lower Upper
75 100
53 0.1 74.2 111.4#
89 0.0 34.9 52.3#



#86
p-Isopropyltoluene
Concen: 0.764 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.006 min
Lab File: VN085852.D
Acq: 25 Feb 2025 13:12

Tgt Ion: 119 Resp: 885
Ion Ratio Lower Upper
119 100
134 0.0 13.0 39.0#
91 6.9 11.7 35.1#





#87

1,3-Dichlorobenzene

Concen: 0.262 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.000 min

Lab File: VN085852.D

Acq: 25 Feb 2025 13:12

Instrument :

MSVOA_N

ClientSampleId :

IBLK

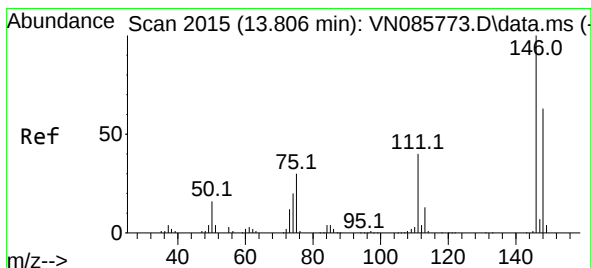
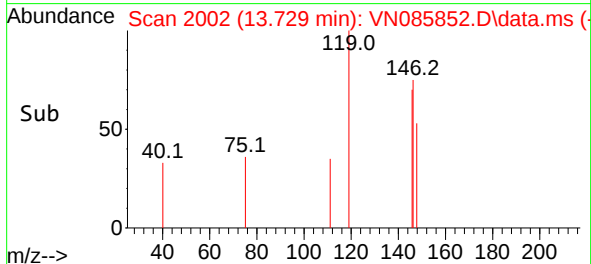
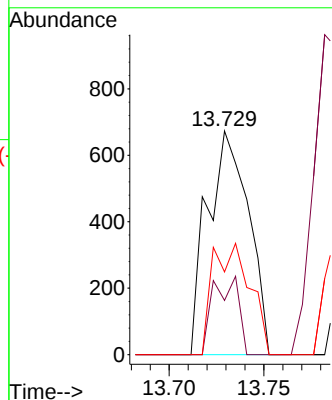
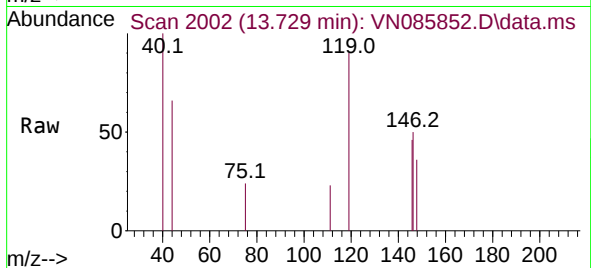
Tgt Ion:146 Resp: 1019

Ion Ratio Lower Upper

146 100

111 21.5 21.1 63.3

148 44.9 32.1 96.5



#88

1,4-Dichlorobenzene

Concen: 0.256 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.077 min

Lab File: VN085852.D

Acq: 25 Feb 2025 13:12

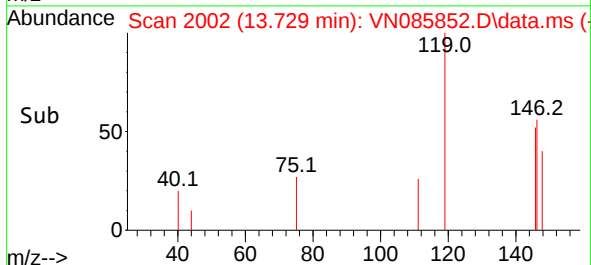
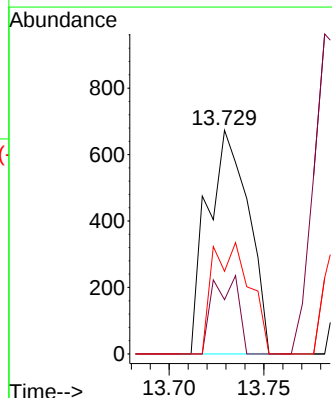
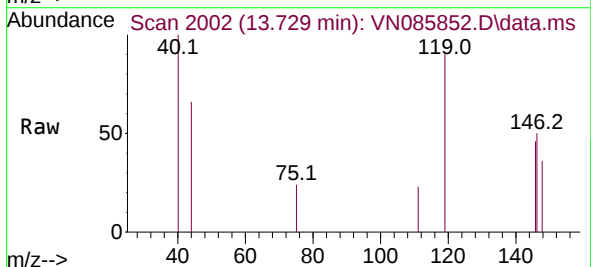
Tgt Ion:146 Resp: 1019

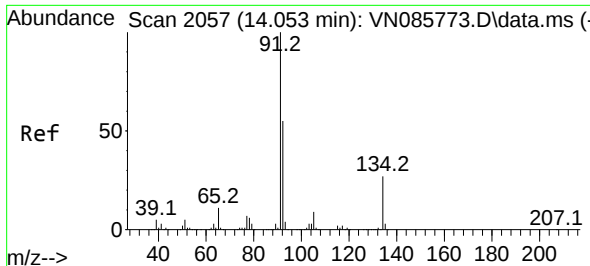
Ion Ratio Lower Upper

146 100

111 21.5 20.4 61.3

148 44.9 31.8 95.4

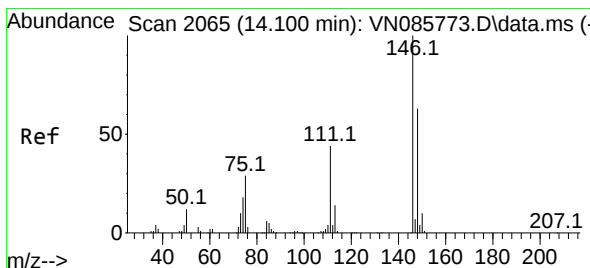
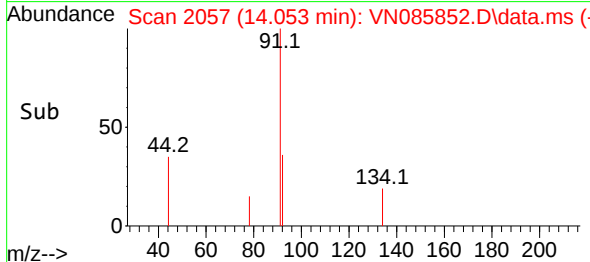
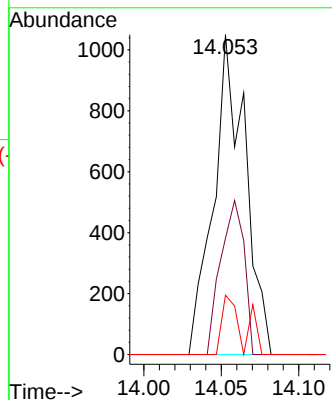
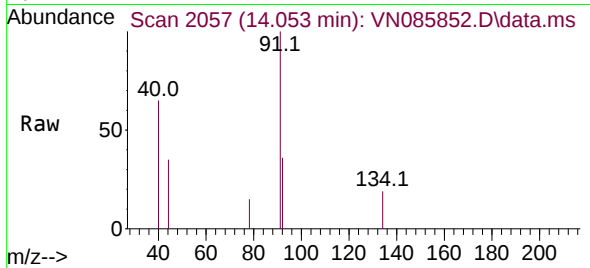




#89
n-Butylbenzene
Concen: 0.282 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. -0.000 min
Lab File: VN085852.D
Acq: 25 Feb 2025 13:12

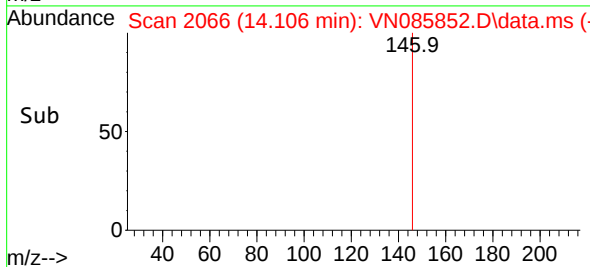
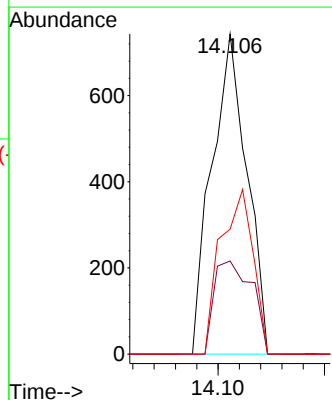
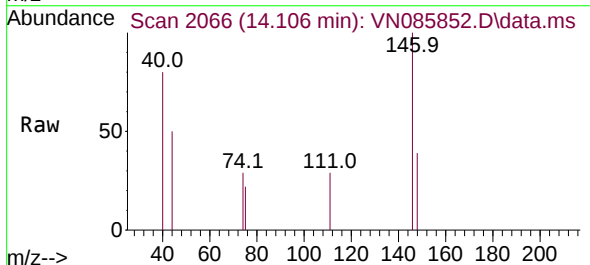
Instrument :
MSVOA_N
ClientSampleId :
IBLK

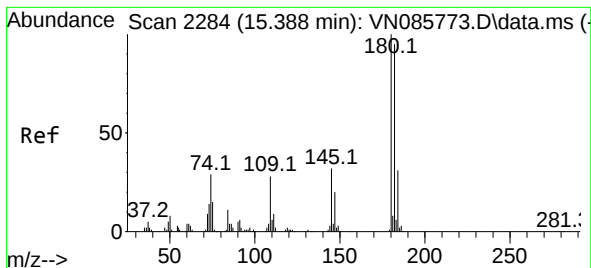
Tgt Ion: 91 Resp: 1489
Ion Ratio Lower Upper
91 100
92 35.8 27.1 81.3
134 12.3 12.7 38.1#



#91
1,2-Dichlorobenzene
Concen: 0.228 ug/l
RT: 14.106 min Scan# 2066
Delta R.T. 0.006 min
Lab File: VN085852.D
Acq: 25 Feb 2025 13:12

Tgt Ion: 146 Resp: 850
Ion Ratio Lower Upper
146 100
111 31.3 21.4 64.3
148 47.6 32.0 96.2





#93

1,2,4-Trichlorobenzene

Concen: 0.653 ug/l

RT: 15.388 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN085852.D

Acq: 25 Feb 2025 13:12

Instrument :

MSVOA_N

ClientSampleId :

IBLK

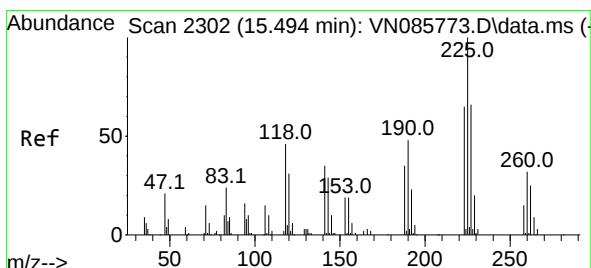
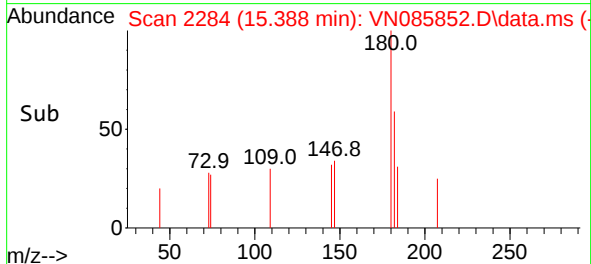
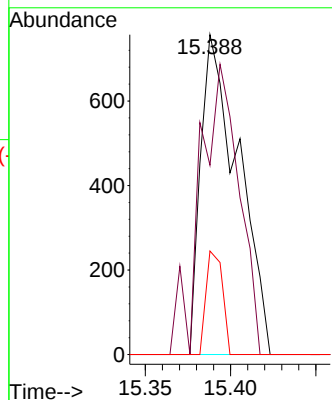
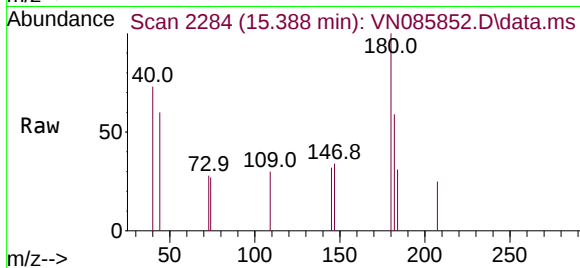
Tgt Ion:180 Resp: 1162

Ion Ratio Lower Upper

180 100

182 93.5 47.3 141.9

145 14.0 16.2 48.5#



#94

Hexachlorobutadiene

Concen: 0.889 ug/l

RT: 15.494 min Scan# 2302

Delta R.T. -0.000 min

Lab File: VN085852.D

Acq: 25 Feb 2025 13:12

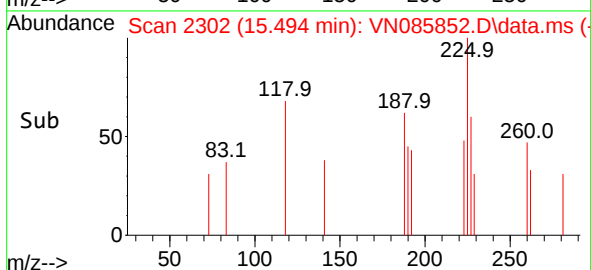
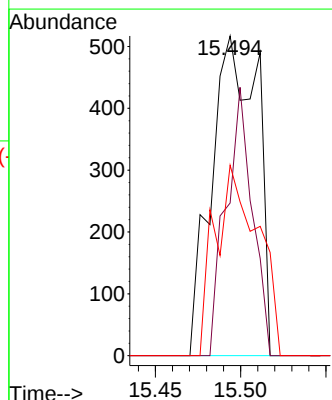
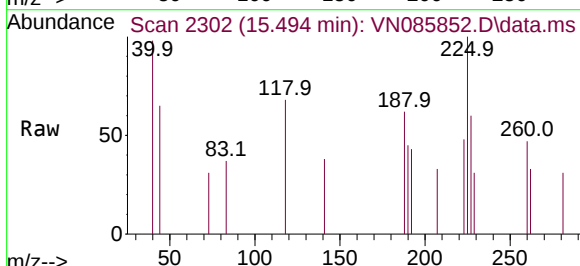
Tgt Ion:225 Resp: 962

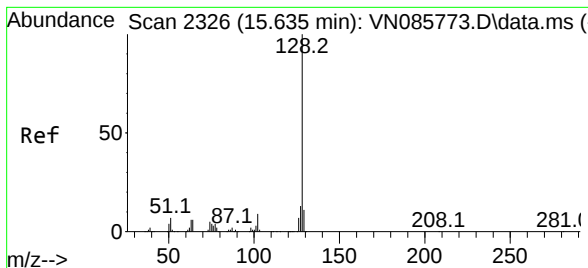
Ion Ratio Lower Upper

225 100

223 48.2 31.9 95.5

227 56.2 32.2 96.6





#95

Naphthalene

Concen: 1.023 ug/l

RT: 15.641 min Scan# 2326

Delta R.T. 0.006 min

Lab File: VN085852.D

Acq: 25 Feb 2025 13:12

Instrument :

MSVOA_N

ClientSampleId :

IBLK

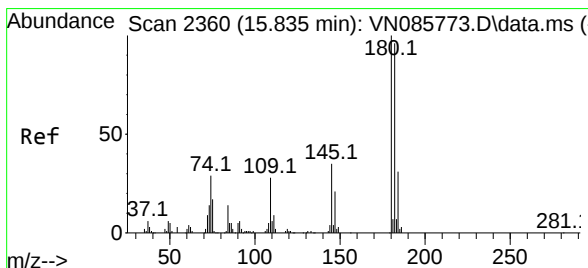
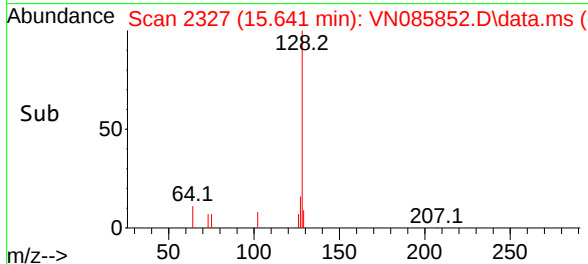
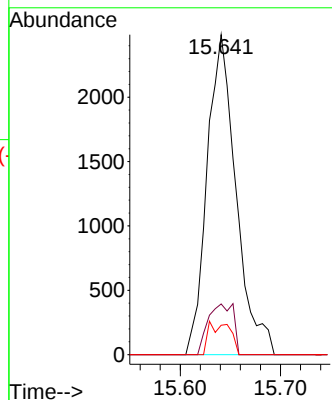
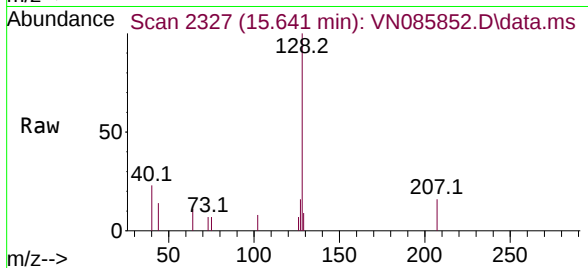
Tgt Ion:128 Resp: 4999

Ion Ratio Lower Upper

128 100

127 13.8 10.2 15.2

129 0.0 8.7 13.1#



#96

1,2,3-Trichlorobenzene

Concen: 0.690 ug/l

RT: 15.847 min Scan# 2362

Delta R.T. 0.012 min

Lab File: VN085852.D

Acq: 25 Feb 2025 13:12

Tgt Ion:180 Resp: 1233

Ion Ratio Lower Upper

180 100

182 100.1 47.3 141.8

145 35.1 16.9 50.6

