

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031925\
 Data File : VN086011.D
 Acq On : 19 Mar 2025 16:02
 Operator : JC\MD
 Sample : PB167194ZHE#01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167194ZHE#01

Quant Time: Mar 20 01:33:19 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 19 03:20:56 2025
 Response via : Initial Calibration

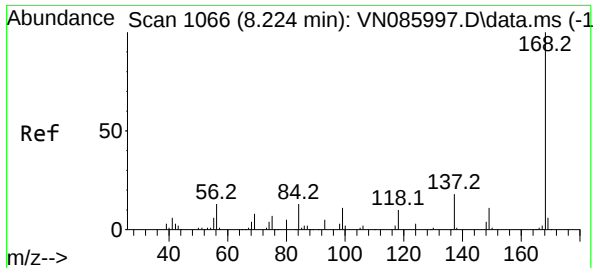
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.224	168	137571	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	239578	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	239167	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	93887	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	102030	54.161	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 108.320%			
35) Dibromofluoromethane	8.159	113	85757	51.283	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.560%			
50) Toluene-d8	10.565	98	315967	52.062	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.120%			
62) 4-Bromofluorobenzene	12.847	95	101163	46.740	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 93.480%			
Target Compounds						Qvalue
5) Bromomethane	2.977	94	431	0.387	ug/l #	69
11) Tert butyl alcohol	5.518	59	3028	11.353	ug/l #	73
16) Acetone	4.436	43	18142	31.523	ug/l	98
18) Methyl Acetate	5.042	43	1320	0.927	ug/l #	45
20) Methylene Chloride	5.271	84	3524	2.093	ug/l	95
25) 2-Butanone	7.483	43	13291	16.005	ug/l	99
29) Tetrahydrofuran	7.847	42	258	0.503	ug/l #	24
31) Cyclohexane	8.224	56	2780	1.184	ug/l #	1
36) 1,1-Dichloropropene	8.218	75	11159	5.068	ug/l #	50
37) Ethyl Acetate	7.565	43	2067	1.113	ug/l #	71
38) Carbon Tetrachloride	8.224	117	14609	5.046	ug/l #	16
42) 1,2-Dichloroethane	8.688	62	567	0.235	ug/l #	74
43) Isopropyl Acetate	8.682	43	73746	18.320	ug/l #	88
45) 1,2-Dichloropropane	9.729	63	927	0.590	ug/l #	44
48) Methyl methacrylate	9.653	41	3701	2.786	ug/l #	32
51) 4-Methyl-2-Pentanone	10.441	43	5916	3.332	ug/l #	69
54) cis-1,3-Dichloropropene	10.353	75	28751	10.859	ug/l #	68
56) Ethyl methacrylate	10.982	69	1413	0.879	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	4069	1.480	ug/l #	42
59) 2-Hexanone	11.165	43	55141	42.637	ug/l #	18
71) Bromoform	12.847	173	963	0.566	ug/l #	1
74) N-amyl acetate	12.459	43	2976	1.387	ug/l #	41
76) 1,2,3-Trichloropropane	12.847	75	51577	24.538	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	51577	64.873	ug/l #	16

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

Quant Time: Mar 20 01:33:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 19 03:20:56 2025
Response via : Initial Calibration

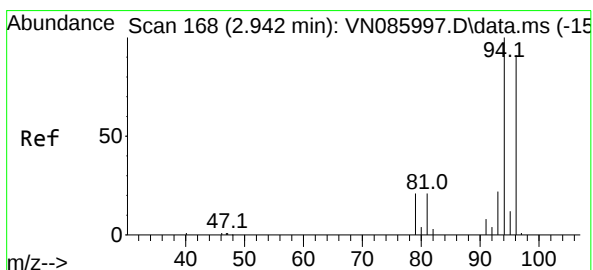
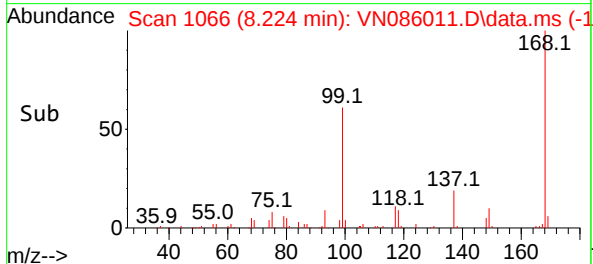
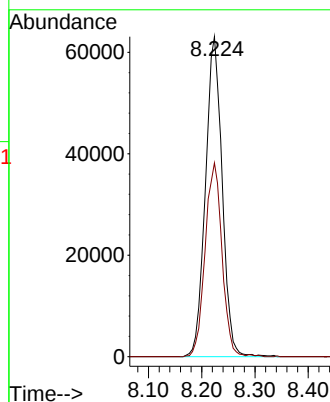
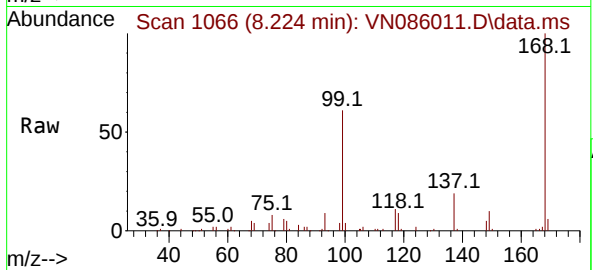




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN086011.D
Acq: 19 Mar 2025 16:02

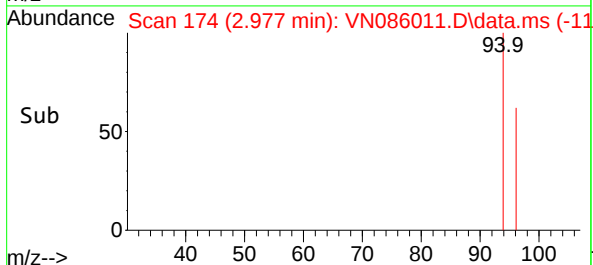
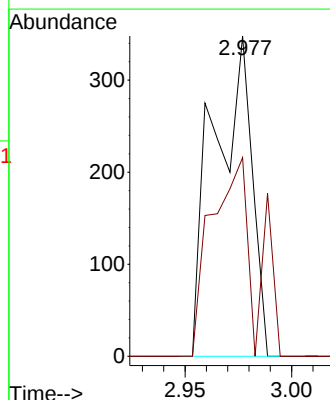
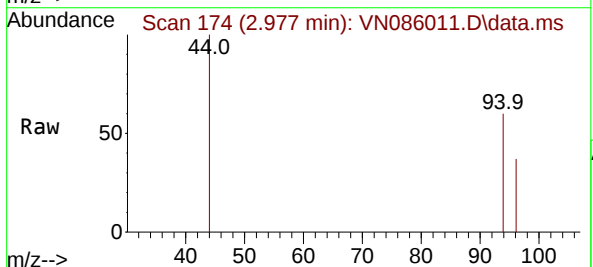
Instrument :
MSVOA_N
ClientSampleId :
PB167194ZHE#01

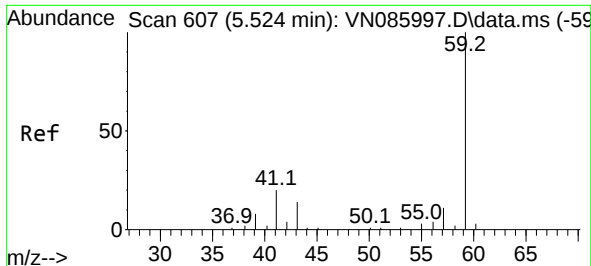
Tgt Ion:168 Resp: 137571
Ion Ratio Lower Upper
168 100
99 60.6 49.4 74.2



#5
Bromomethane
Concen: 0.387 ug/l
RT: 2.977 min Scan# 174
Delta R.T. 0.035 min
Lab File: VN086011.D
Acq: 19 Mar 2025 16:02

Tgt Ion: 94 Resp: 431
Ion Ratio Lower Upper
94 100
96 62.1 72.8 109.2#

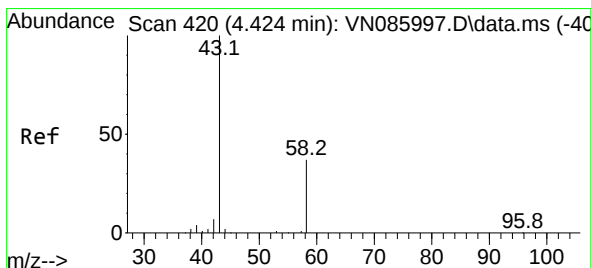
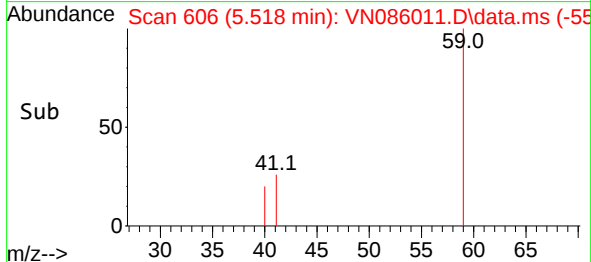
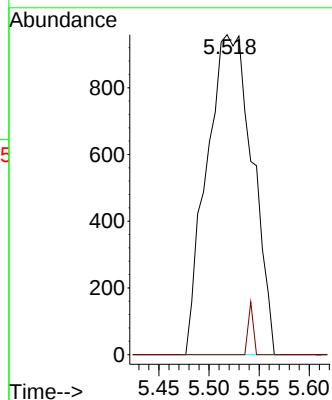
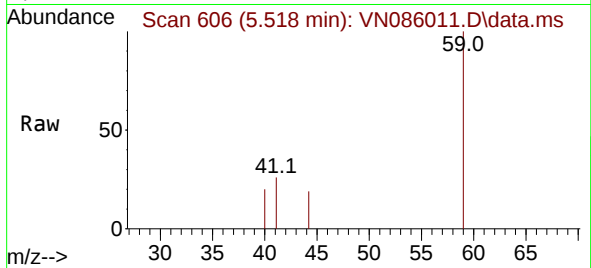




#11
Tert butyl alcohol
Concen: 11.353 ug/l
RT: 5.518 min Scan# 607
Delta R.T. -0.006 min
Lab File: VN086011.D
Acq: 19 Mar 2025 16:02

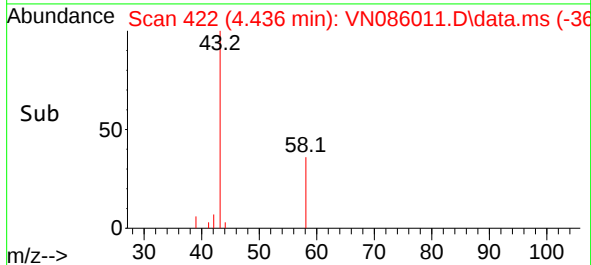
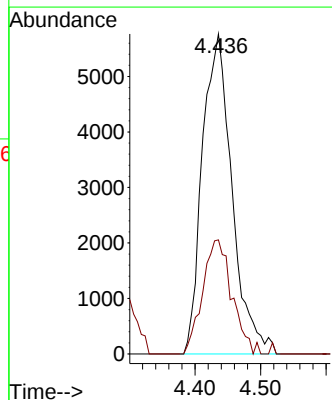
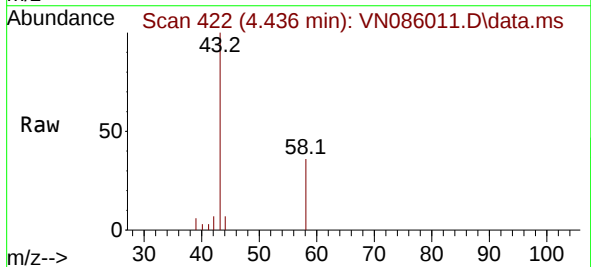
Instrument :
MSVOA_N
ClientSampleId :
PB167194ZHE#01

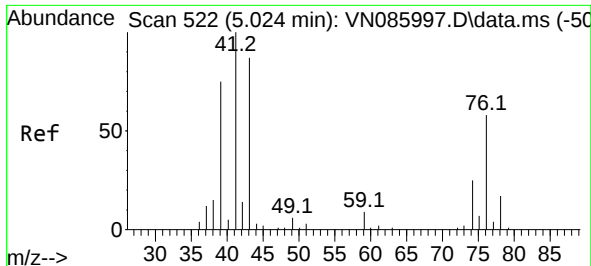
Tgt Ion: 59 Resp: 3028
Ion Ratio Lower Upper
59 100
57 0.0 7.9 11.9#



#16
Acetone
Concen: 31.523 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.012 min
Lab File: VN086011.D
Acq: 19 Mar 2025 16:02

Tgt Ion: 43 Resp: 18142
Ion Ratio Lower Upper
43 100
58 35.7 29.4 44.2

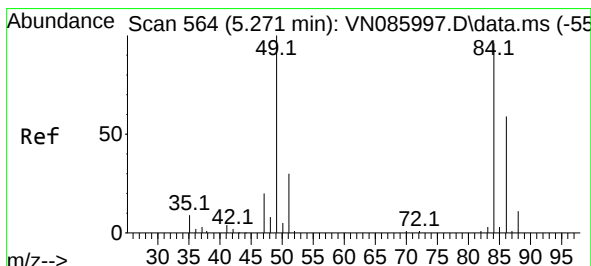
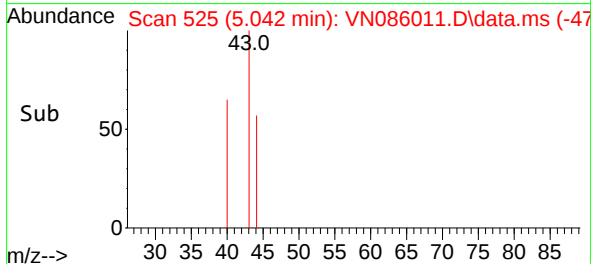
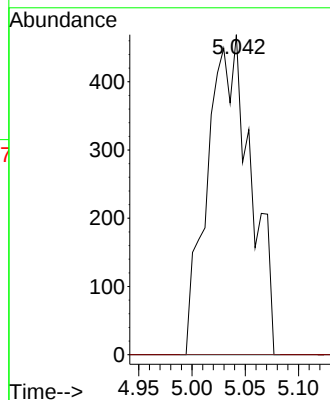
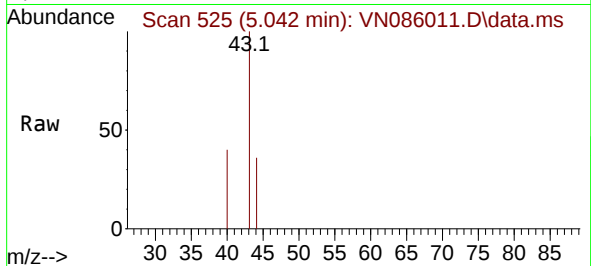




#18
Methyl Acetate
Concen: 0.927 ug/l
RT: 5.042 min Scan# 51
Delta R.T. 0.017 min
Lab File: VN086011.D
Acq: 19 Mar 2025 16:02

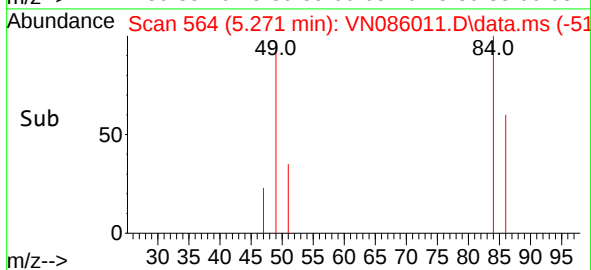
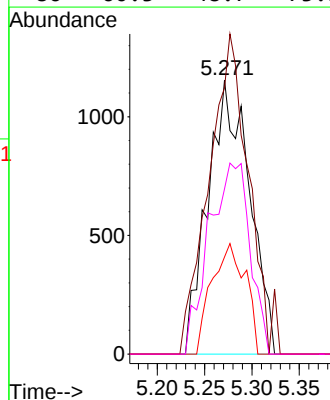
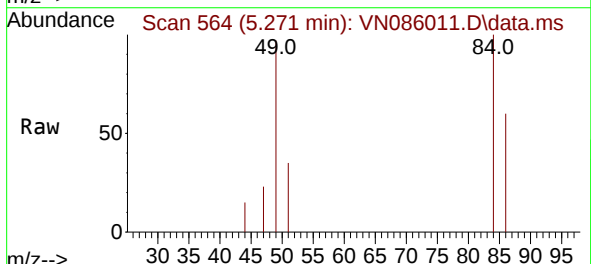
Instrument :
MSVOA_N
ClientSampleId :
PB167194ZHE#01

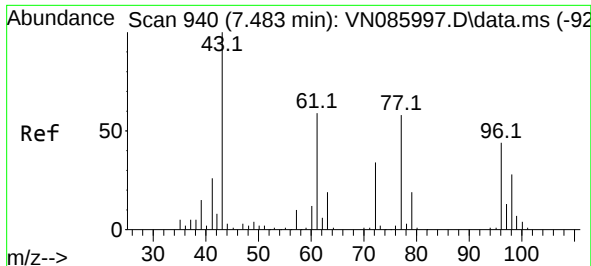
Tgt Ion: 43 Resp: 1320
Ion Ratio Lower Upper
43 100
74 0.0 23.9 35.9#



#20
Methylene Chloride
Concen: 2.093 ug/l
RT: 5.271 min Scan# 564
Delta R.T. -0.000 min
Lab File: VN086011.D
Acq: 19 Mar 2025 16:02

Tgt Ion: 84 Resp: 3524
Ion Ratio Lower Upper
84 100
49 97.1 83.3 124.9
51 35.4 24.8 37.2
86 60.3 48.7 73.1





#25

2-Butanone

Concen: 16.005 ug/l

RT: 7.483 min Scan# 94

Delta R.T. -0.000 min

Lab File: VN086011.D

Acq: 19 Mar 2025 16:02

Instrument :

MSVOA_N

ClientSampleId :

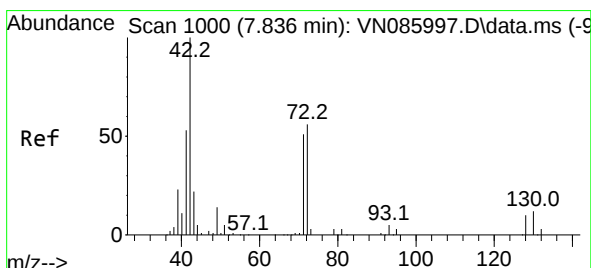
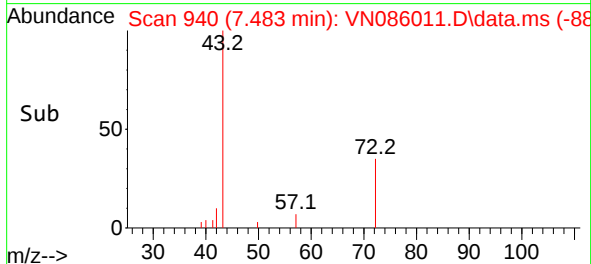
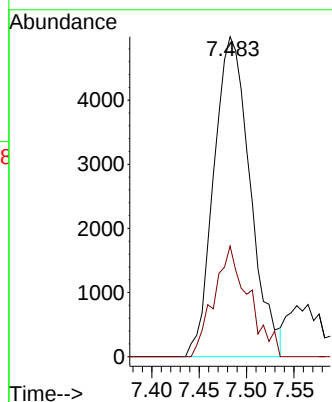
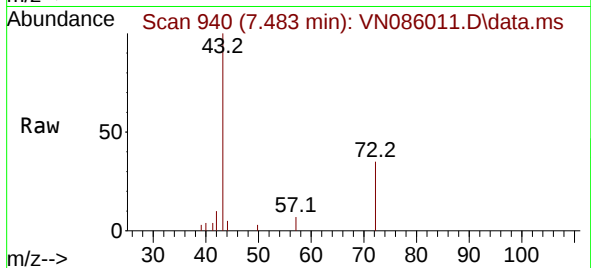
PB167194ZHE#01

Tgt Ion: 43 Resp: 13291

Ion Ratio Lower Upper

43 100

72 34.5 27.4 41.0



#29

Tetrahydrofuran

Concen: 0.503 ug/l

RT: 7.847 min Scan# 1002

Delta R.T. 0.012 min

Lab File: VN086011.D

Acq: 19 Mar 2025 16:02

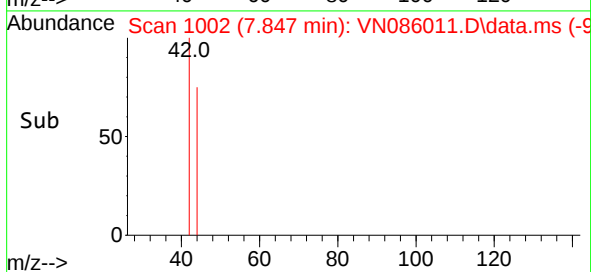
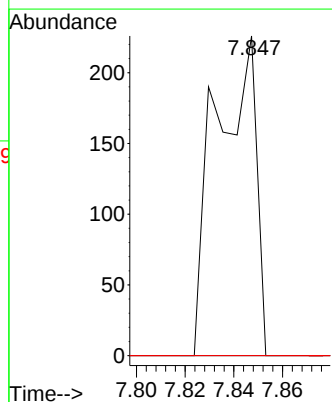
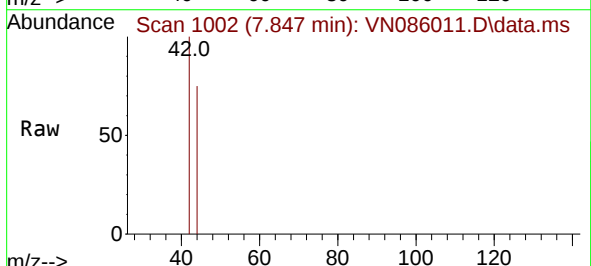
Tgt Ion: 42 Resp: 258

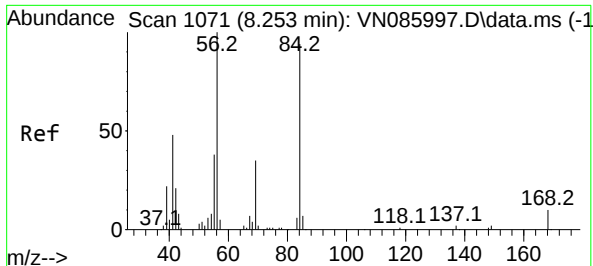
Ion Ratio Lower Upper

42 100

72 0.0 45.0 67.4#

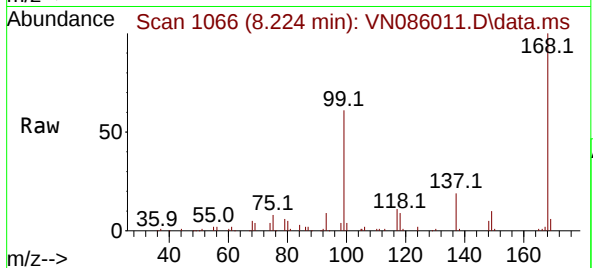
71 0.0 41.9 62.9#



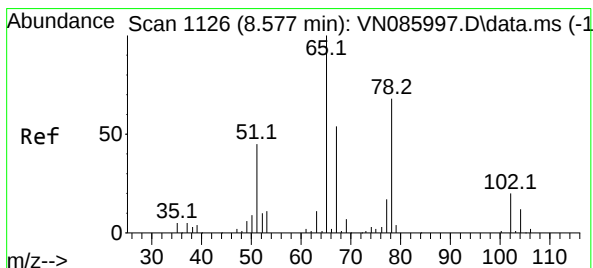
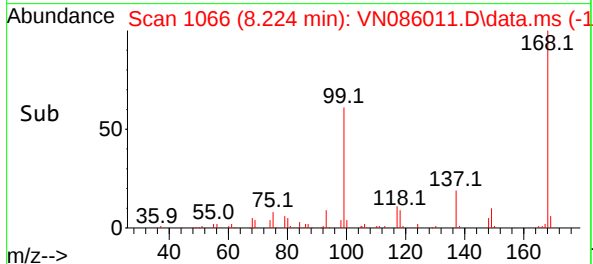
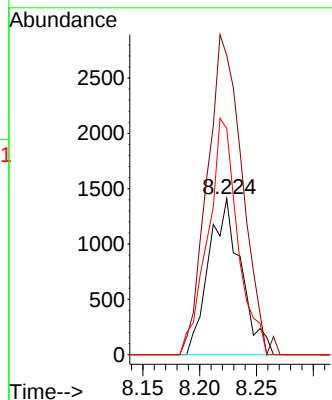


#31
Cyclohexane
Concen: 1.184 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.030 min
Lab File: VN086011.D
Acq: 19 Mar 2025 16:02

Instrument :
MSVOA_N
ClientSampleId :
PB167194ZHE#01

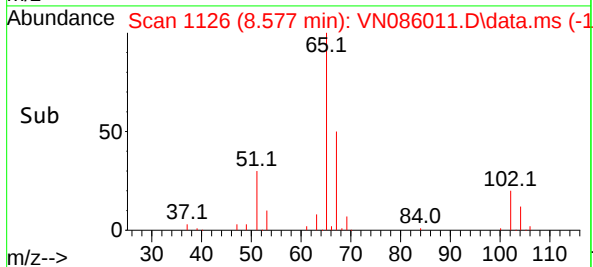
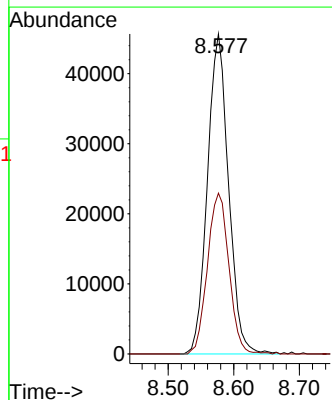
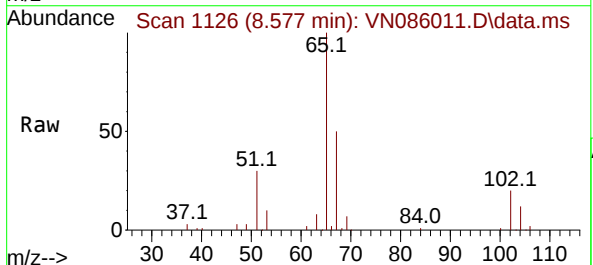


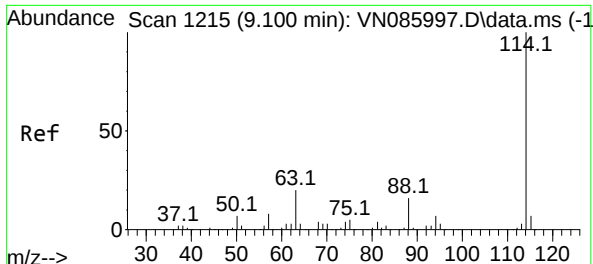
Tgt Ion: 56 Resp: 2780
Ion Ratio Lower Upper
56 100
69 191.8 28.0 42.0#
84 144.9 75.0 112.6#



#33
1,2-Dichloroethane-d4
Concen: 54.161 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN086011.D
Acq: 19 Mar 2025 16:02

Tgt Ion: 65 Resp: 102030
Ion Ratio Lower Upper
65 100
67 51.2 0.0 102.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086011.D

Acq: 19 Mar 2025 16:02

Instrument :

MSVOA_N

ClientSampleId :

PB167194ZHE#01

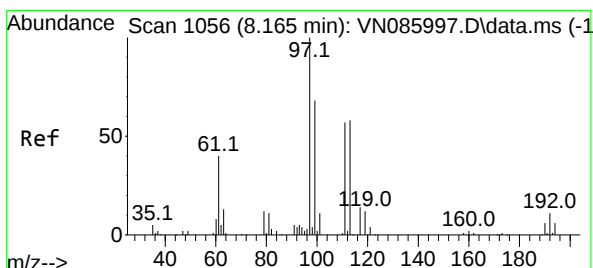
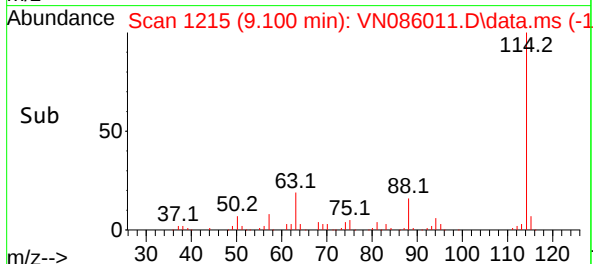
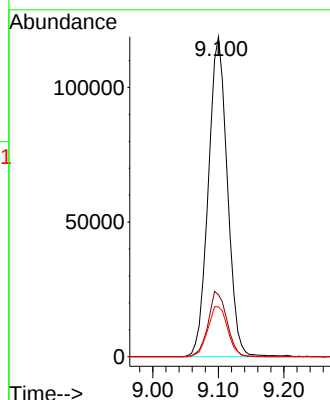
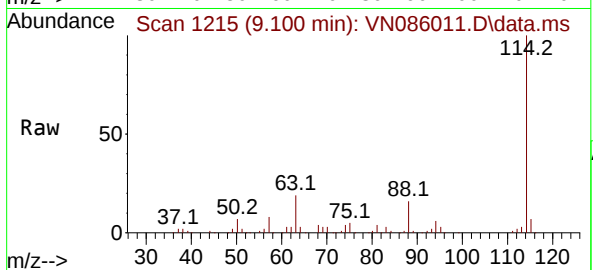
Tgt Ion:114 Resp: 239578

Ion Ratio Lower Upper

114 100

63 19.3 0.0 39.6

88 15.5 0.0 32.6



#35

Dibromofluoromethane

Concen: 51.283 ug/l

RT: 8.159 min Scan# 1055

Delta R.T. -0.006 min

Lab File: VN086011.D

Acq: 19 Mar 2025 16:02

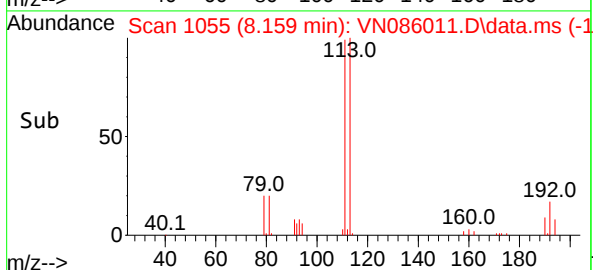
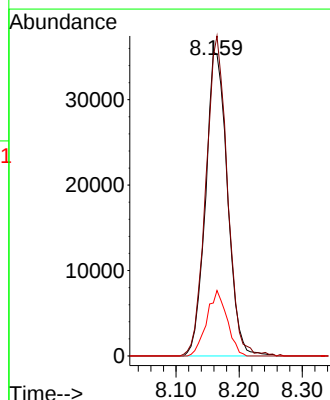
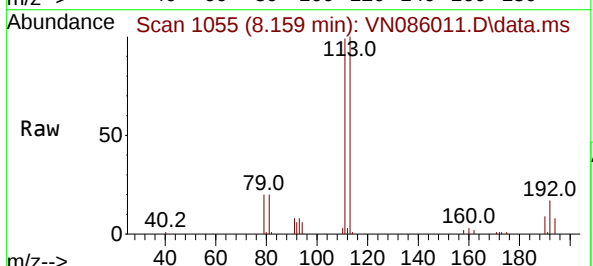
Tgt Ion:113 Resp: 85757

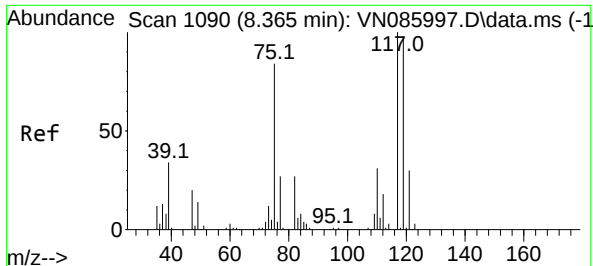
Ion Ratio Lower Upper

113 100

111 103.4 81.8 122.8

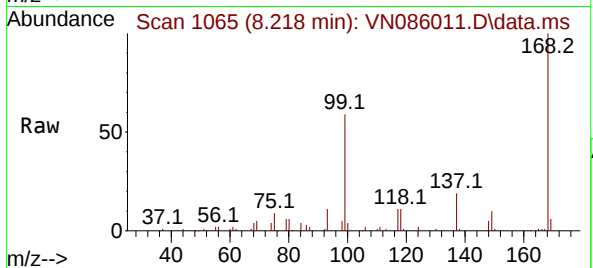
192 20.0 15.9 23.9



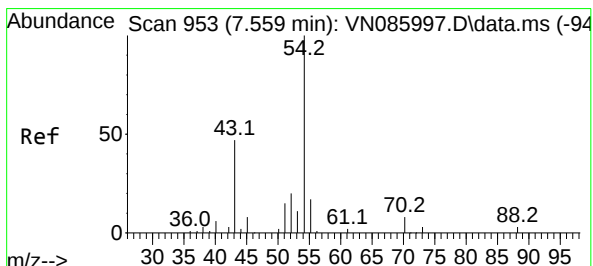
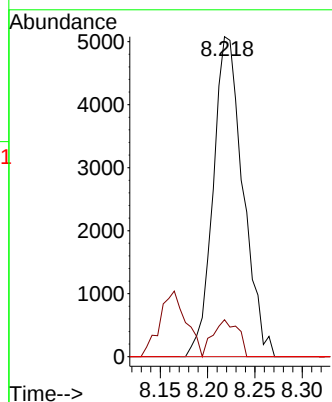
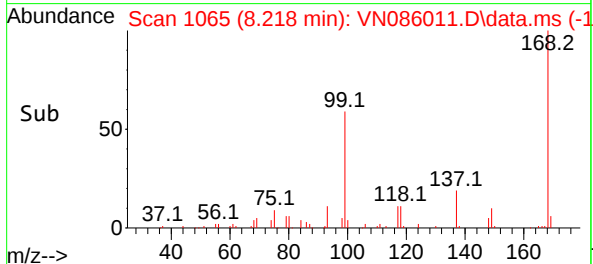


#36
 1,1-Dichloropropene
 Concen: 5.068 ug/l
 RT: 8.218 min Scan# 11159
 Delta R.T. -0.147 min
 Lab File: VN086011.D
 Acq: 19 Mar 2025 16:02

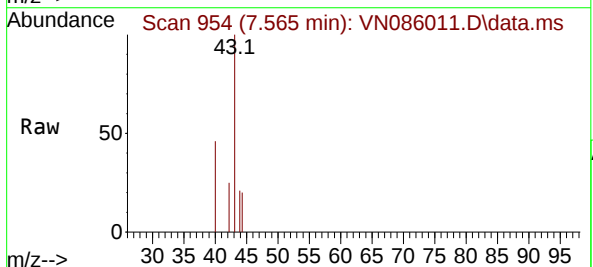
Instrument :
 MSVOA_N
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 PB167194ZHE#01



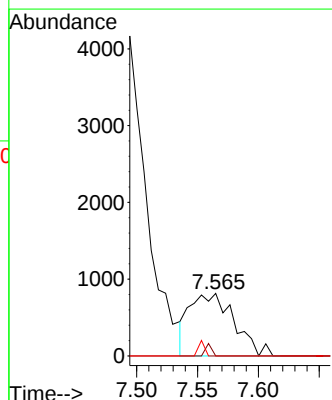
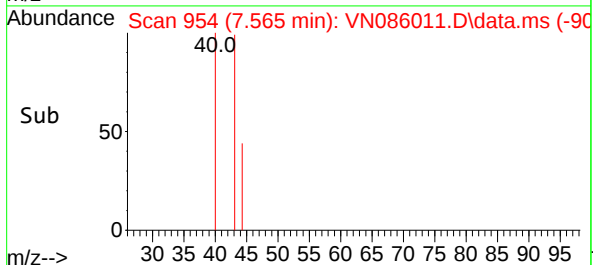
Tgt Ion: 75 Resp: 11159
 Ion Ratio Lower Upper
 75 100
 110 9.7 17.8 53.3#
 77 0.0 25.0 37.4#

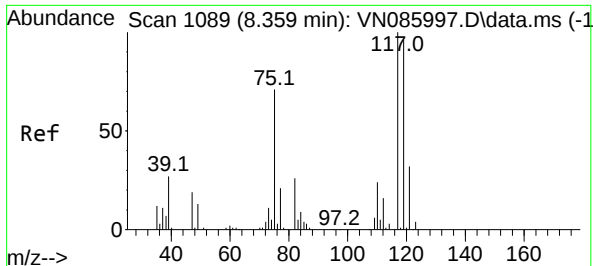


#37
 Ethyl Acetate
 Concen: 1.113 ug/l
 RT: 7.565 min Scan# 954
 Delta R.T. 0.006 min
 Lab File: VN086011.D
 Acq: 19 Mar 2025 16:02



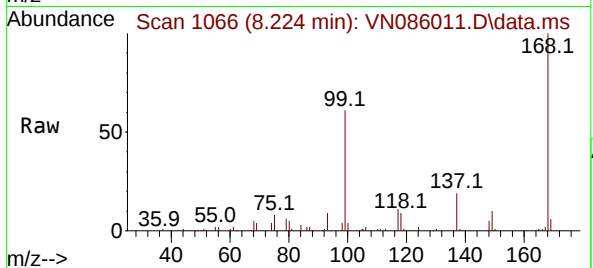
Tgt Ion: 43 Resp: 2067
 Ion Ratio Lower Upper
 43 100
 61 2.8 13.0 19.4#
 70 3.4 11.0 16.6#



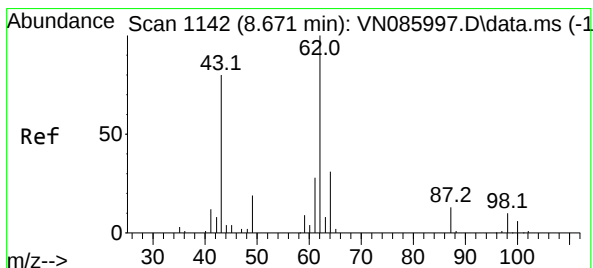
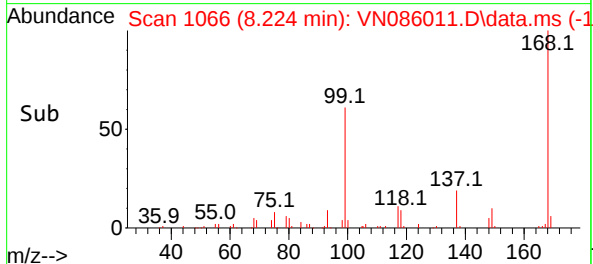
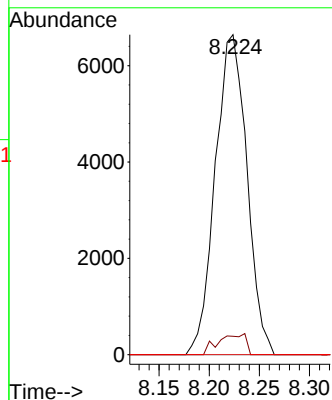


#38
Carbon Tetrachloride
Concen: 5.046 ug/l
RT: 8.224 min Scan# 110
Delta R.T. -0.135 min
Lab File: VN086011.D
Acq: 19 Mar 2025 16:02

Instrument :
MSVOA_N
ClientSampleId :
PB167194ZHE#01

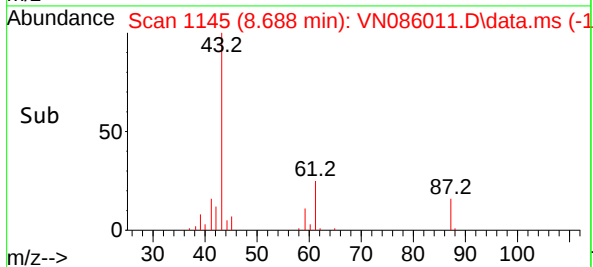
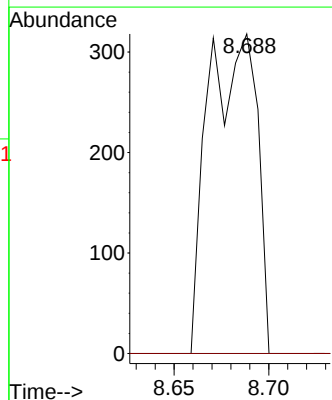
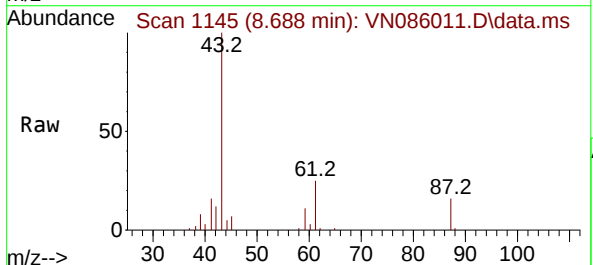


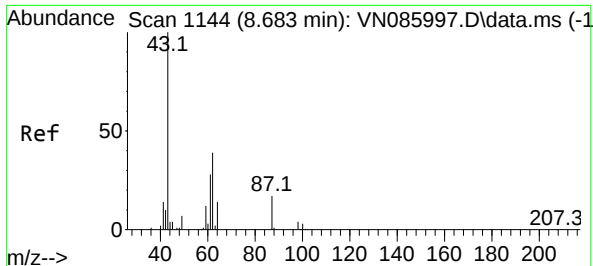
Tgt Ion:117 Resp: 14609
Ion Ratio Lower Upper
117 100
119 5.8 77.0 115.4#
121 0.0 25.6 38.4#



#42
1,2-Dichloroethane
Concen: 0.235 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.017 min
Lab File: VN086011.D
Acq: 19 Mar 2025 16:02

Tgt Ion: 62 Resp: 567
Ion Ratio Lower Upper
62 100
98 0.0 0.0 18.6

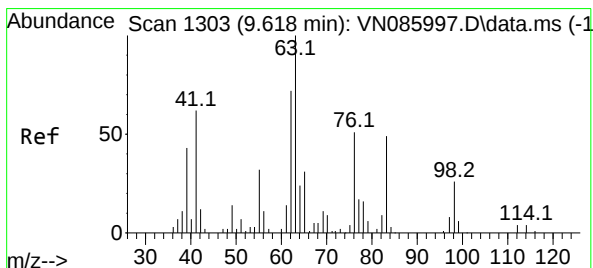
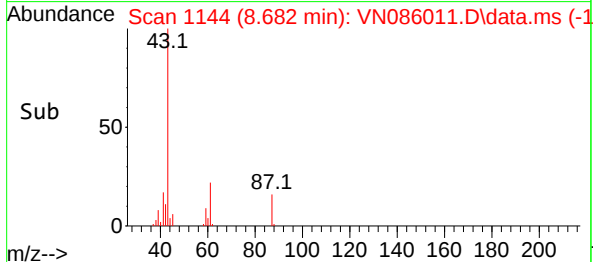
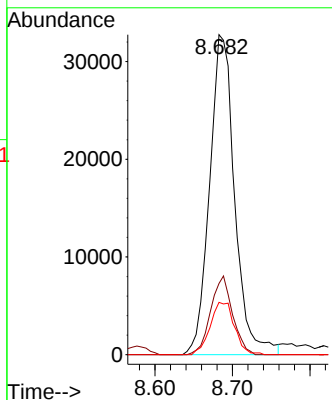
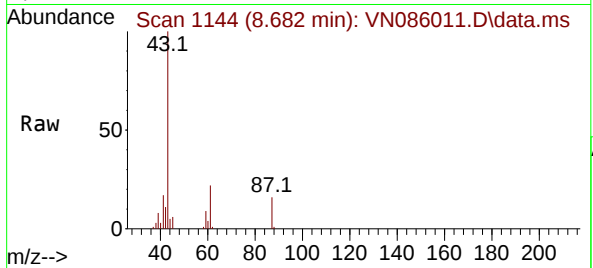




#43
Isopropyl Acetate
Concen: 18.320 ug/l
RT: 8.682 min Scan# 1144
Delta R.T. -0.000 min
Lab File: VN086011.D
Acq: 19 Mar 2025 16:02

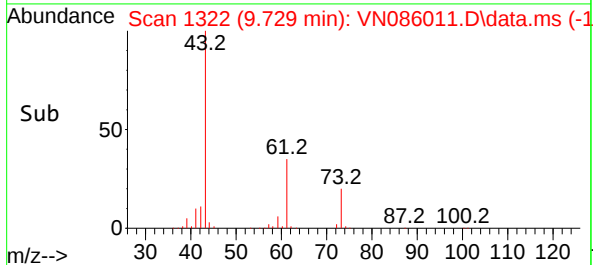
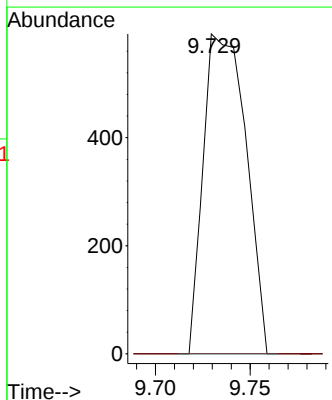
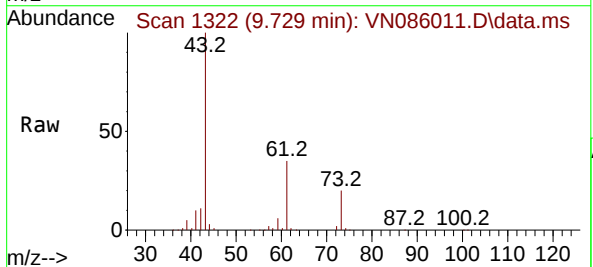
Instrument :
MSVOA_N
ClientSampleId :
PB167194ZHE#01

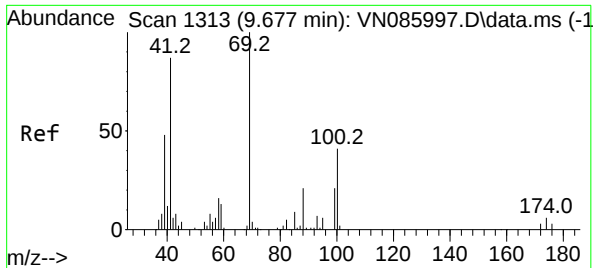
Tgt Ion: 43 Resp: 73746
Ion Ratio Lower Upper
43 100
61 21.4 25.0 37.6#
87 15.9 13.0 19.4



#45
1,2-Dichloropropane
Concen: 0.590 ug/l
RT: 9.729 min Scan# 1322
Delta R.T. 0.112 min
Lab File: VN086011.D
Acq: 19 Mar 2025 16:02

Tgt Ion: 63 Resp: 927
Ion Ratio Lower Upper
63 100
65 0.0 24.7 37.1#

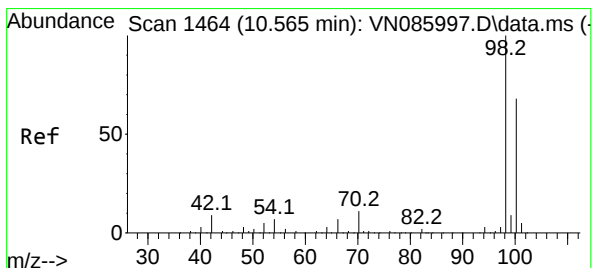
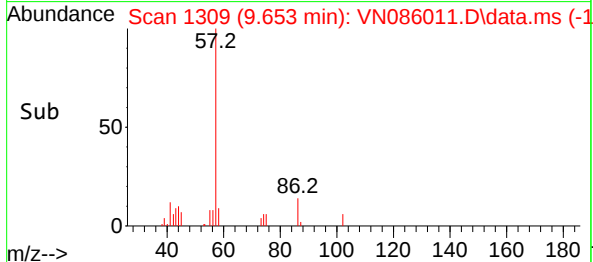
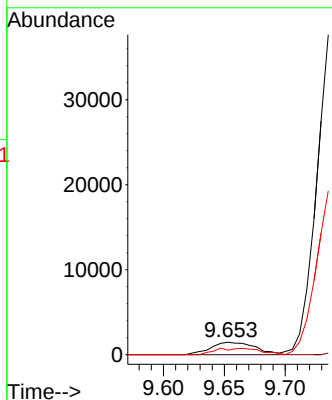
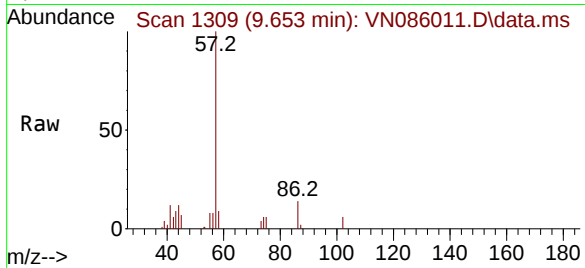




#48
Methyl methacrylate
Concen: 2.786 ug/l
RT: 9.653 min Scan# 11
Delta R.T. -0.024 min
Lab File: VN086011.D
Acq: 19 Mar 2025 16:02

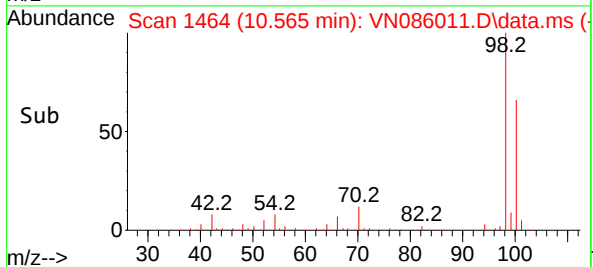
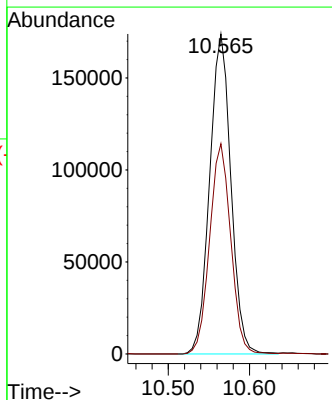
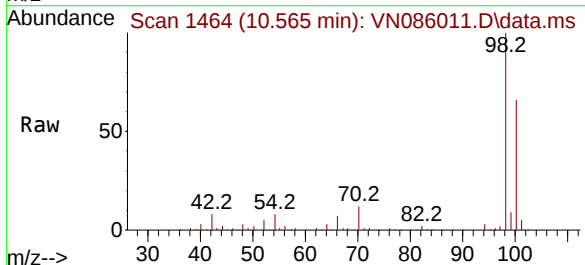
Instrument :
MSVOA_N
ClientSampleId :
PB167194ZHE#01

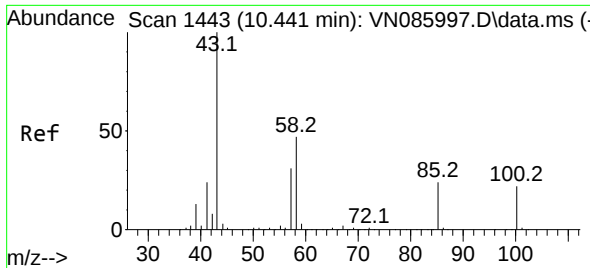
Tgt Ion: 41 Resp: 3701
Ion Ratio Lower Upper
41 100
69 0.0 83.1 124.7#
39 52.1 45.6 68.4



#50
Toluene-d8
Concen: 52.062 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086011.D
Acq: 19 Mar 2025 16:02

Tgt Ion: 98 Resp: 315967
Ion Ratio Lower Upper
98 100
100 65.2 53.1 79.7

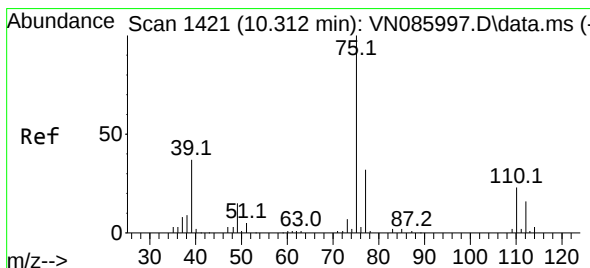
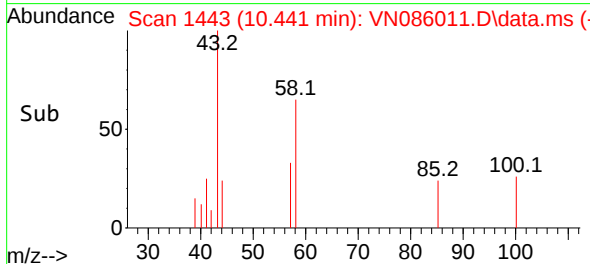
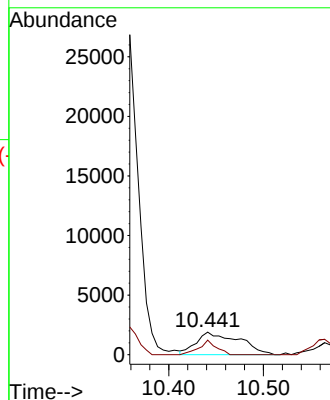
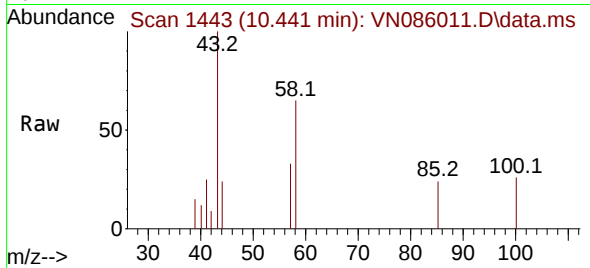




#51
4-Methyl-2-Pentanone
Concen: 3.332 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086011.D
Acq: 19 Mar 2025 16:02

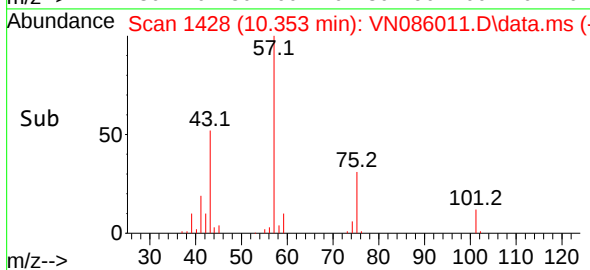
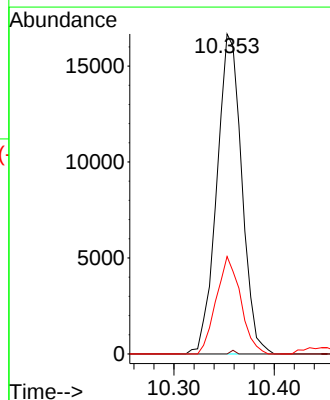
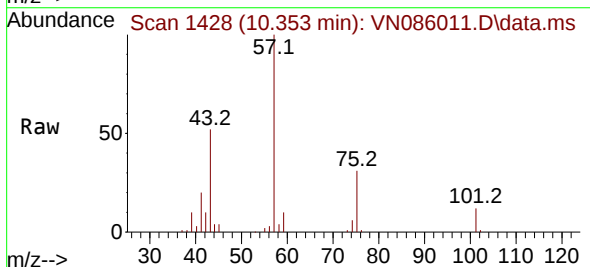
Instrument :
MSVOA_N
ClientSampleId :
PB167194ZHE#01

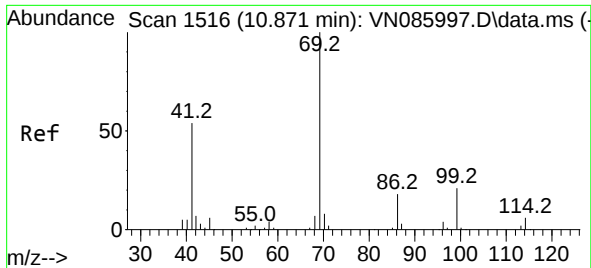
Tgt Ion: 43 Resp: 5916
Ion Ratio Lower Upper
43 100
58 26.0 37.4 56.0#



#54
cis-1,3-Dichloropropene
Concen: 10.859 ug/l
RT: 10.353 min Scan# 1428
Delta R.T. 0.041 min
Lab File: VN086011.D
Acq: 19 Mar 2025 16:02

Tgt Ion: 75 Resp: 28751
Ion Ratio Lower Upper
75 100
77 0.0 25.3 37.9#
39 30.4 29.6 44.4

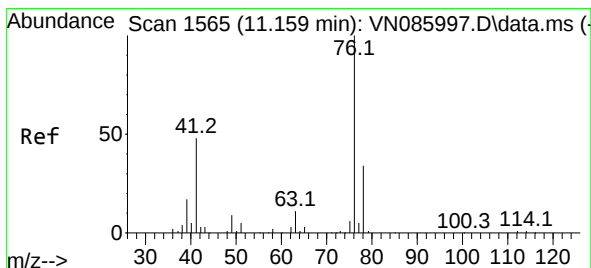
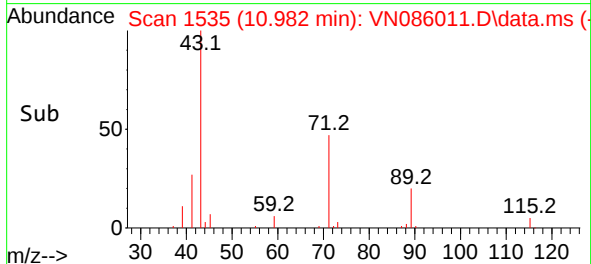
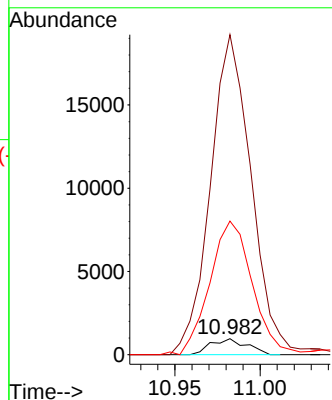
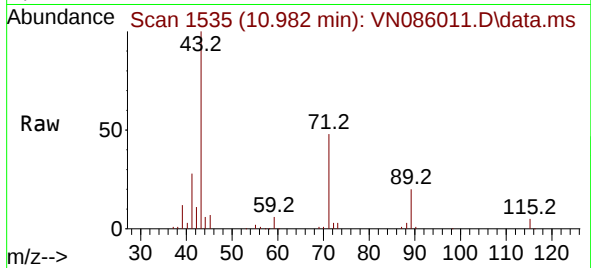




#56
Ethyl methacrylate
Concen: 0.879 ug/l
RT: 10.982 min Scan# 1535
Delta R.T. 0.111 min
Lab File: VN086011.D
Acq: 19 Mar 2025 16:02

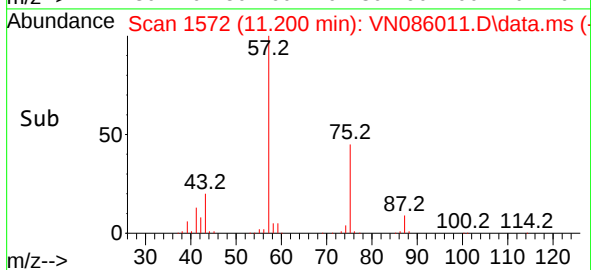
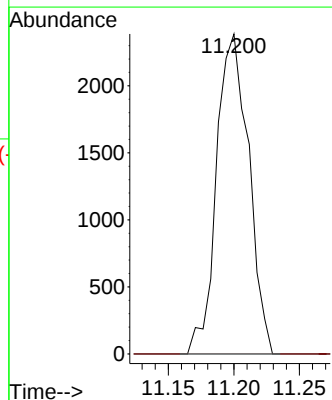
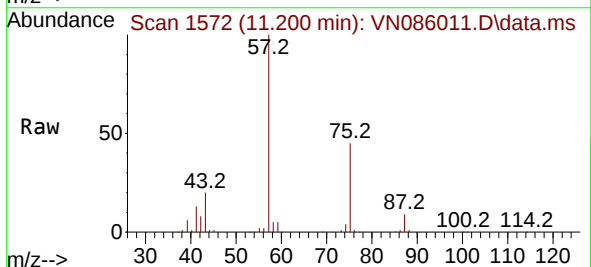
Instrument :
MSVOA_N
ClientSampleId :
PB167194ZHE#01

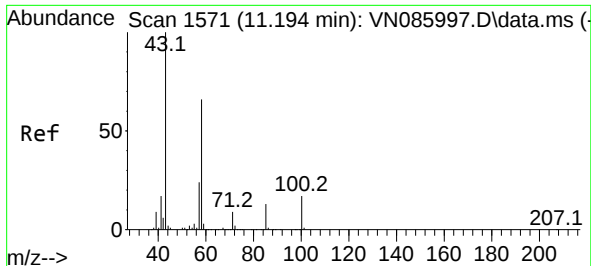
Tgt Ion: 69 Resp: 1413
Ion Ratio Lower Upper
69 100
41 2283.4 41.6 62.4#
39 984.5 21.8 32.8#



#57
1,3-Dichloropropane
Concen: 1.480 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.041 min
Lab File: VN086011.D
Acq: 19 Mar 2025 16:02

Tgt Ion: 76 Resp: 4069
Ion Ratio Lower Upper
76 100
78 0.0 25.8 38.6#

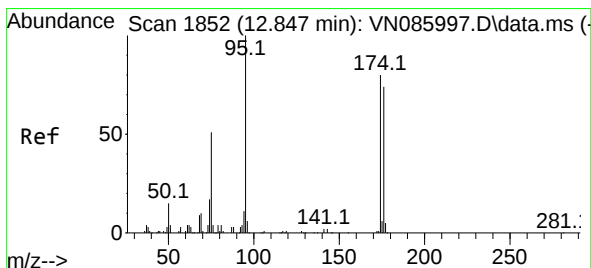
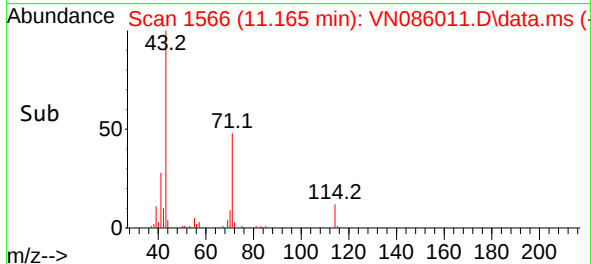
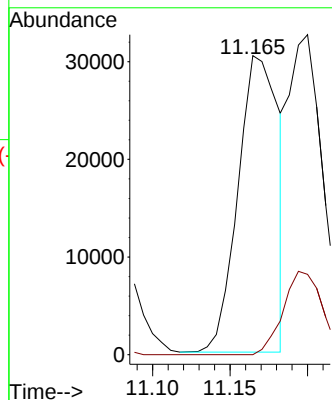
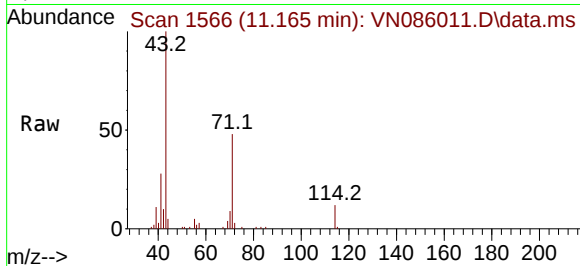




#59
2-Hexanone
Concen: 42.637 ug/l
RT: 11.165 min Scan# 1566
Delta R.T. -0.030 min
Lab File: VN086011.D
Acq: 19 Mar 2025 16:02

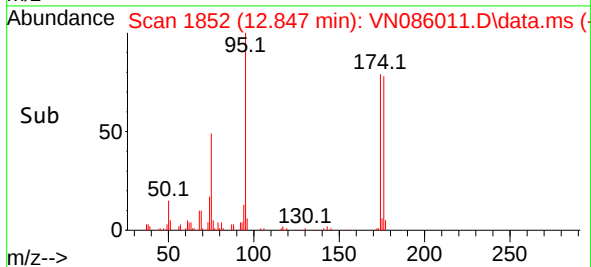
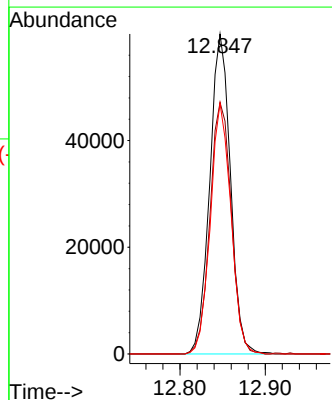
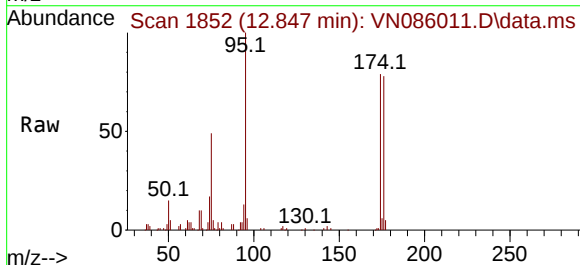
Instrument :
MSVOA_N
ClientSampleId :
PB167194ZHE#01

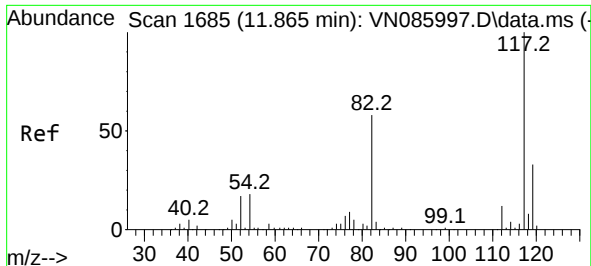
Tgt Ion: 43 Resp: 55141
Ion Ratio Lower Upper
43 100
58 0.0 32.4 97.2#



#62
4-Bromofluorobenzene
Concen: 46.740 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086011.D
Acq: 19 Mar 2025 16:02

Tgt Ion: 95 Resp: 101163
Ion Ratio Lower Upper
95 100
174 81.1 0.0 156.8
176 77.8 0.0 152.2

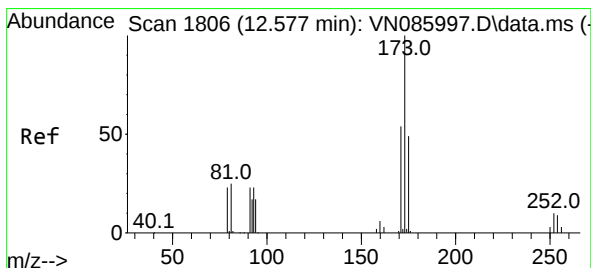
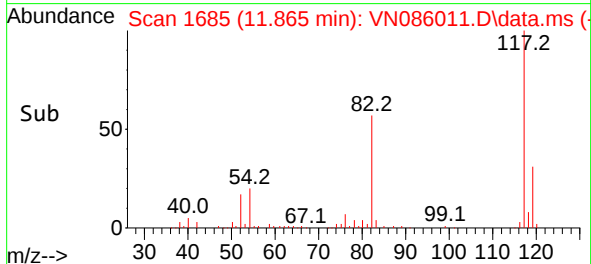
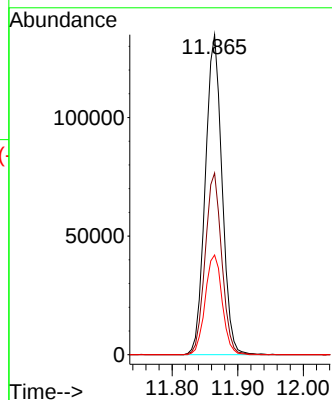
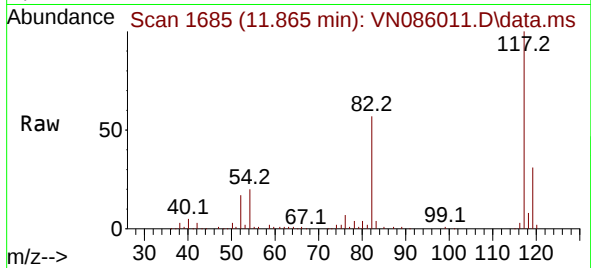




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN086011.D
Acq: 19 Mar 2025 16:02

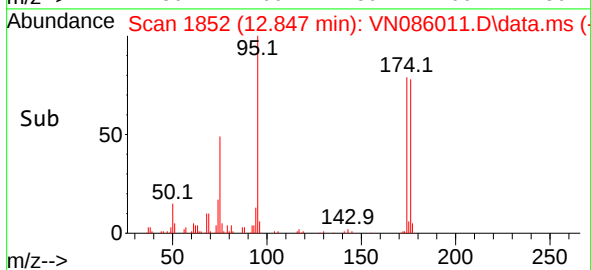
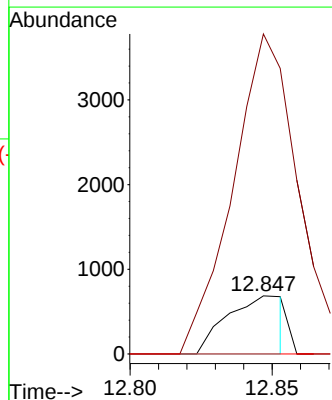
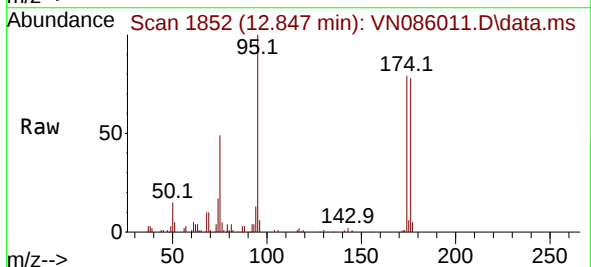
Instrument :
MSVOA_N
ClientSampleId :
PB167194ZHE#01

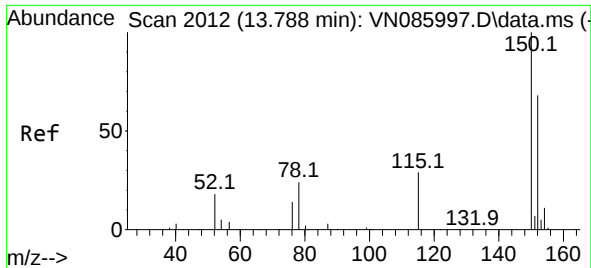
Tgt Ion:117 Resp: 239167
Ion Ratio Lower Upper
117 100
82 56.8 46.7 70.1
119 31.1 26.5 39.7



#71
Bromoform
Concen: 0.566 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.270 min
Lab File: VN086011.D
Acq: 19 Mar 2025 16:02

Tgt Ion:173 Resp: 963
Ion Ratio Lower Upper
173 100
175 487.0 24.3 73.0#
254 0.0 0.0 0.0

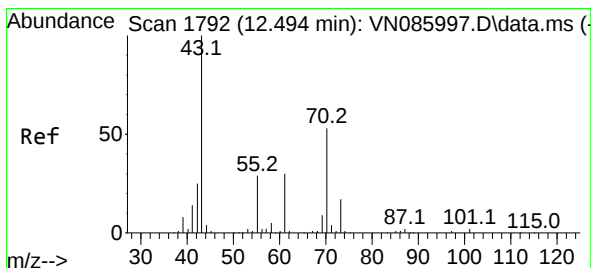
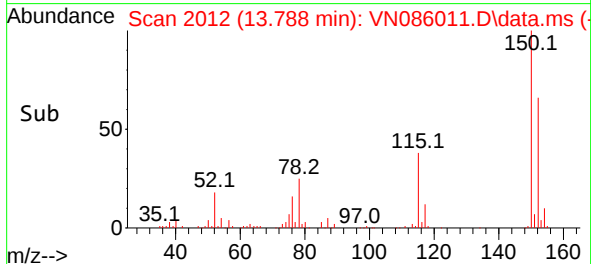
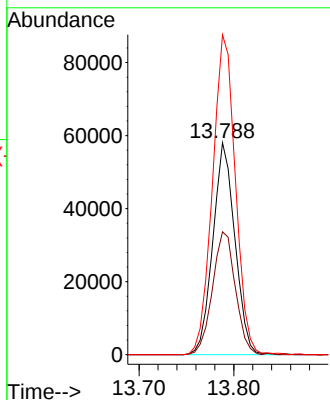
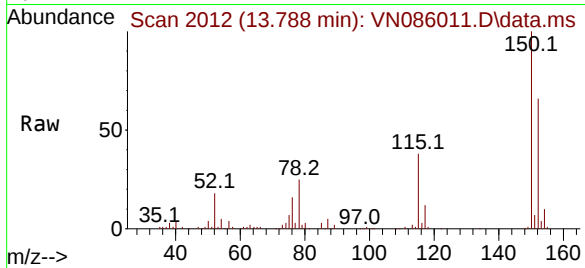




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.788 min Scan# 20
 Delta R.T. -0.000 min
 Lab File: VN086011.D
 Acq: 19 Mar 2025 16:02

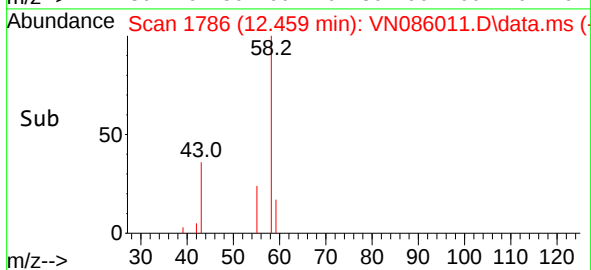
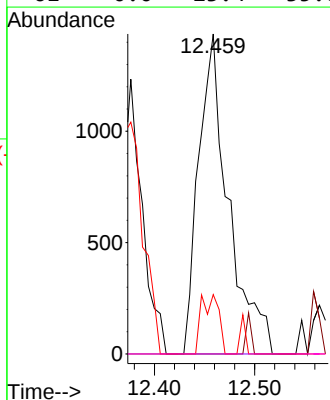
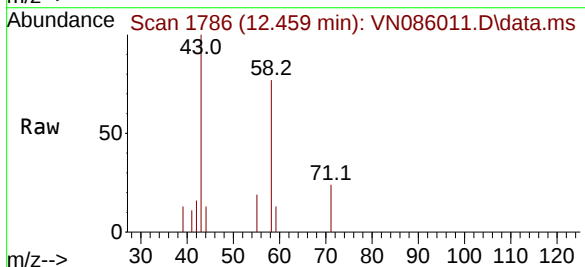
Instrument :
 MSVOA_N
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 PB167194ZHE#01

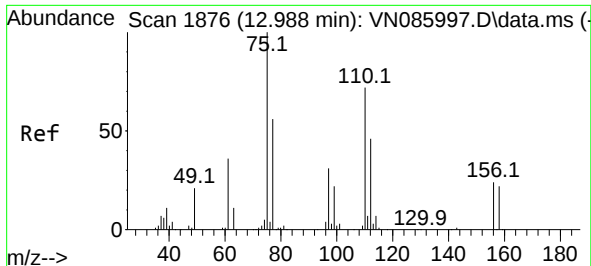
Tgt Ion:152 Resp: 93887
 Ion Ratio Lower Upper
 152 100
 115 60.2 31.1 93.2
 150 156.7 0.0 359.6



#74
 N-ethyl acetate
 Concen: 1.387 ug/l
 RT: 12.459 min Scan# 1786
 Delta R.T. -0.035 min
 Lab File: VN086011.D
 Acq: 19 Mar 2025 16:02

Tgt Ion: 43 Resp: 2976
 Ion Ratio Lower Upper
 43 100
 70 0.0 43.0 64.4#
 55 10.8 23.8 35.8#
 61 0.0 23.4 35.0#

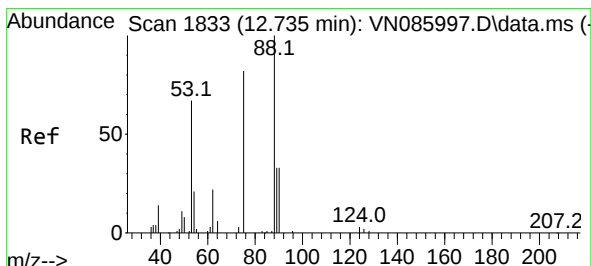
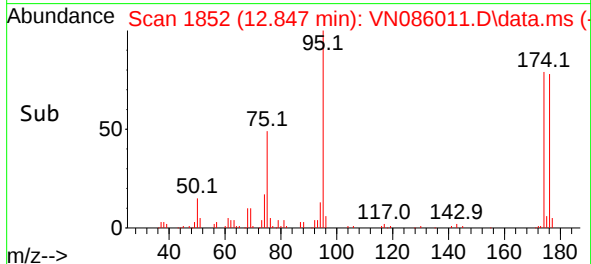
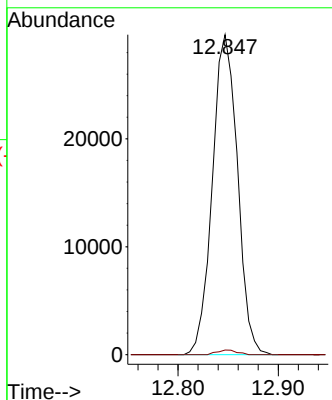
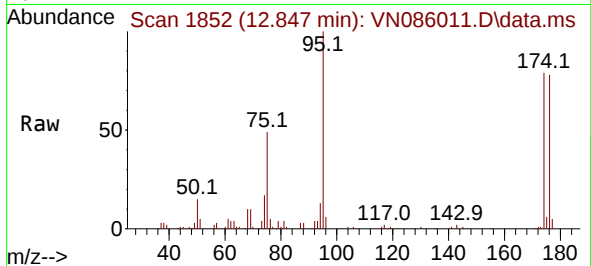




#76
1,2,3-Trichloropropane
Concen: 24.538 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN086011.D
Acq: 19 Mar 2025 16:02

Instrument :
MSVOA_N
ClientSampleId :
PB167194ZHE#01

Tgt Ion: 75 Resp: 51577
Ion Ratio Lower Upper
75 100
77 1.2 83.7 251.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 64.873 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086011.D
Acq: 19 Mar 2025 16:02

Tgt Ion: 75 Resp: 51577
Ion Ratio Lower Upper
75 100
53 0.0 66.0 99.0#
89 0.0 36.9 55.3#

