

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN040225\
 Data File : VN086208.D
 Acq On : 02 Apr 2025 15:07
 Operator : JC\MD
 Sample : Q1680-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-4

Quant Time: Apr 03 01:35:57 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)

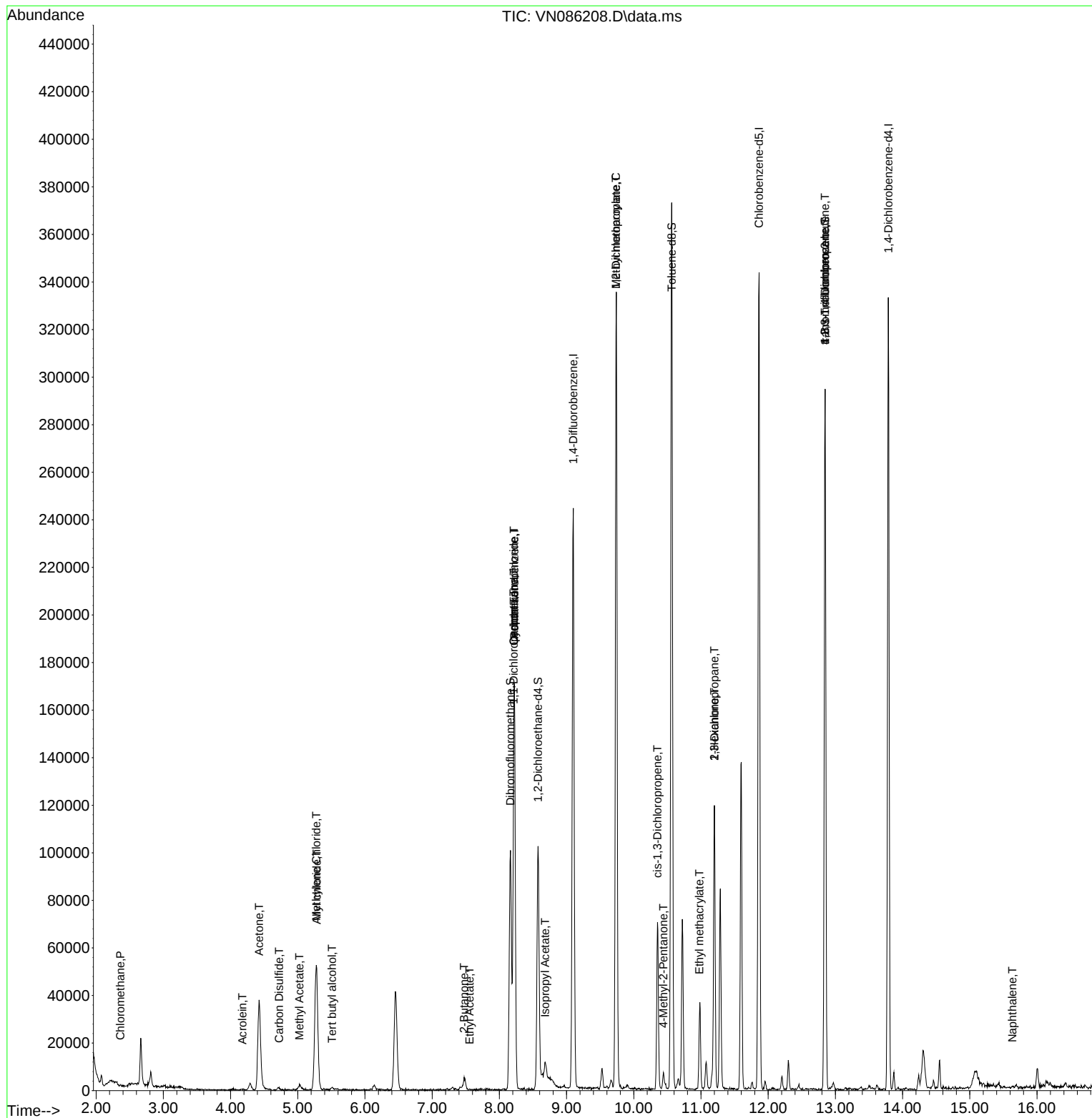
Internal Standards						
1) Pentafluorobenzene	8.223	168	124873	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	206514	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.864	117	198044	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	89962	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.576	65	92436	54.058	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 108.120%			
35) Dibromofluoromethane	8.165	113	69483	48.204	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 96.400%			
50) Toluene-d8	10.564	98	259147	49.537	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.080%			
62) 4-Bromofluorobenzene	12.847	95	102457	54.917	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 109.840%			
Target Compounds						Qvalue
3) Chloromethane	2.359	50	333	0.230	ug/l #	42
11) Tert butyl alcohol	5.512	59	1493	6.167	ug/l #	83
13) Acrolein	4.177	56	87	0.337	ug/l #	15
14) Allyl chloride	5.282	41	771	0.483	ug/l #	20
16) Acetone	4.424	43	69005	132.092	ug/l	99
17) Carbon Disulfide	4.724	76	1781	0.423	ug/l #	74
18) Methyl Acetate	5.024	43	4102	3.174	ug/l #	80
20) Methylene Chloride	5.277	84	45970	30.080	ug/l	96
25) 2-Butanone	7.476	43	7915	10.500	ug/l	90
31) Cyclohexane	8.218	56	2280	1.070	ug/l #	33
36) 1,1-Dichloropropene	8.212	75	8743	4.606	ug/l #	53
37) Ethyl Acetate	7.559	43	449	0.280	ug/l #	64
38) Carbon Tetrachloride	8.218	117	12920	5.177	ug/l #	16
43) Isopropyl Acetate	8.682	43	21950	6.326	ug/l #	63
45) 1,2-Dichloropropane	9.735	63	382	0.282	ug/l #	44
48) Methyl methacrylate	9.735	41	30122	26.307	ug/l #	34
51) 4-Methyl-2-Pentanone	10.441	43	6223	4.067	ug/l #	71
54) cis-1,3-Dichloropropene	10.353	75	13344	5.847	ug/l #	65
56) Ethyl methacrylate	10.976	69	248	0.328	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	1280	0.540	ug/l #	42
59) 2-Hexanone	11.200	43	19881	17.834	ug/l #	40
76) 1,2,3-Trichloropropane	12.847	75	56425	28.015	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	56425	74.068	ug/l #	16
95) Naphthalene	15.635	128	1131	0.253	ug/l #	69

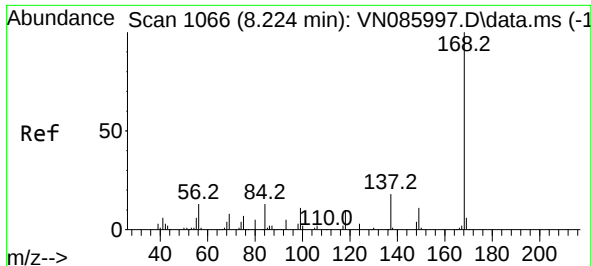
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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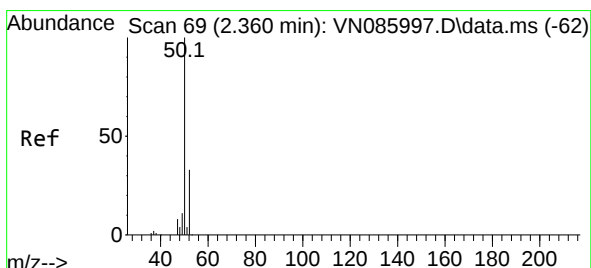
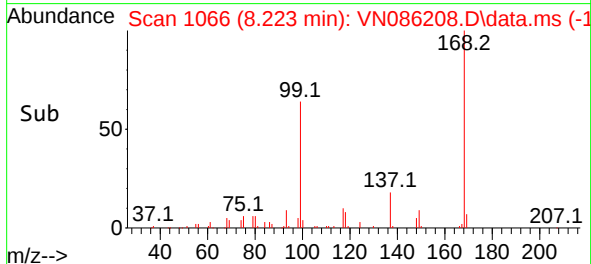
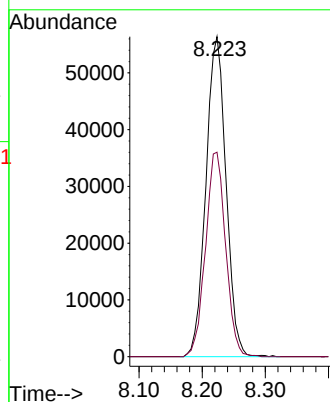
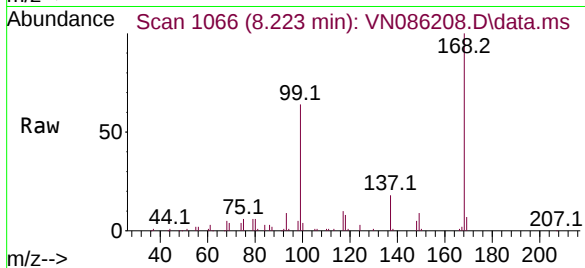




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.223 min Scan# 1066
Delta R.T. -0.001 min
Lab File: VN086208.D
Acq: 02 Apr 2025 15:07

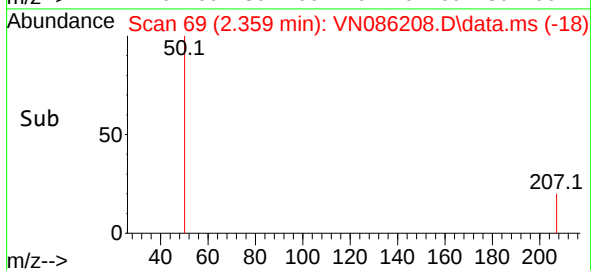
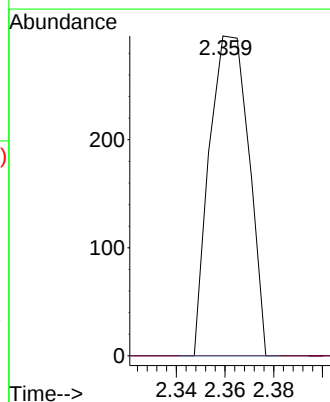
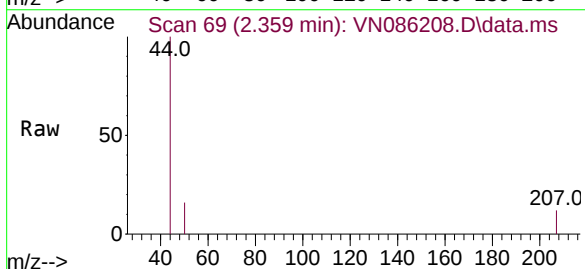
Instrument :
MSVOA_N
ClientSampleId :
TP-4

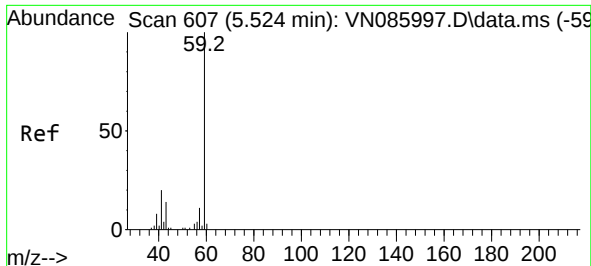
Tgt Ion:168 Resp: 124873
Ion Ratio Lower Upper
168 100
99 63.9 49.4 74.2



#3
Chloromethane
Concen: 0.230 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN086208.D
Acq: 02 Apr 2025 15:07

Tgt Ion: 50 Resp: 333
Ion Ratio Lower Upper
50 100
52 0.0 26.0 39.0#

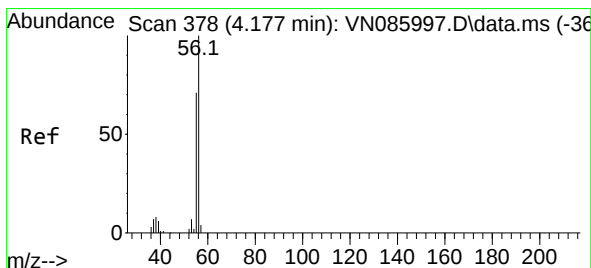
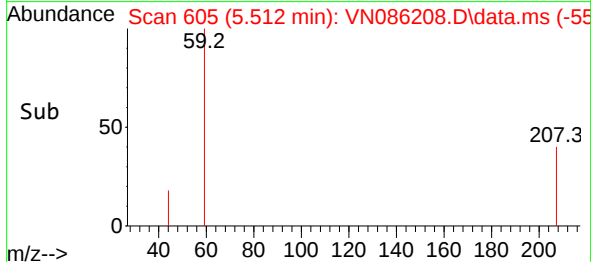
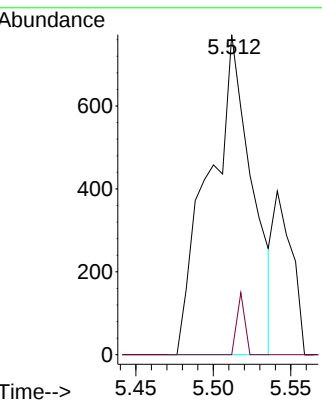
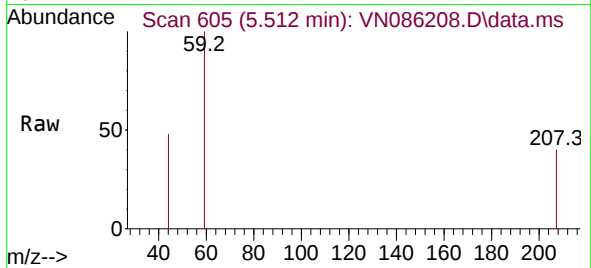




#11
Tert butyl alcohol
Concen: 6.167 ug/l
RT: 5.512 min Scan# 607
Delta R.T. -0.012 min
Lab File: VN086208.D
Acq: 02 Apr 2025 15:07

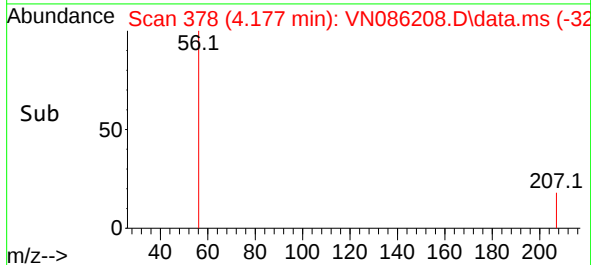
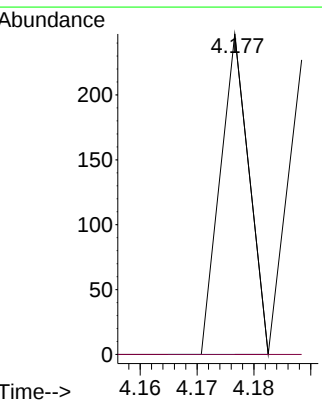
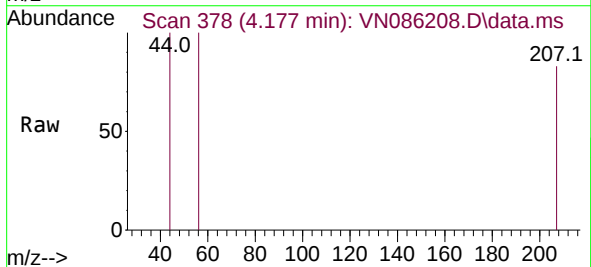
Instrument :
MSVOA_N
ClientSampleId :
TP-4

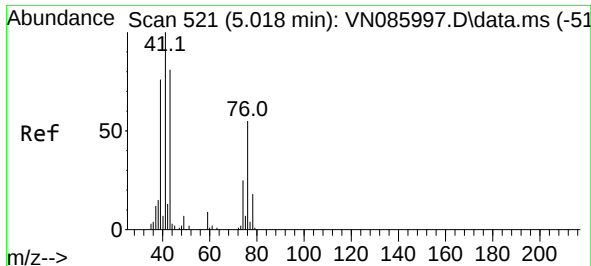
Tgt Ion: 59 Resp: 1493
Ion Ratio Lower Upper
59 100
57 3.5 7.9 11.9#



#13
Acrolein
Concen: 0.337 ug/l
RT: 4.177 min Scan# 378
Delta R.T. -0.000 min
Lab File: VN086208.D
Acq: 02 Apr 2025 15:07

Tgt Ion: 56 Resp: 87
Ion Ratio Lower Upper
56 100
55 0.0 55.1 82.7#

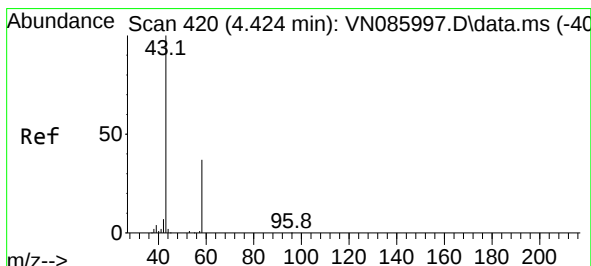
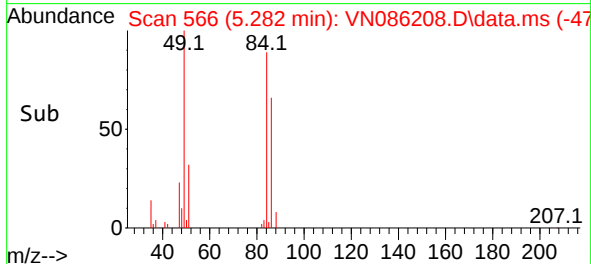
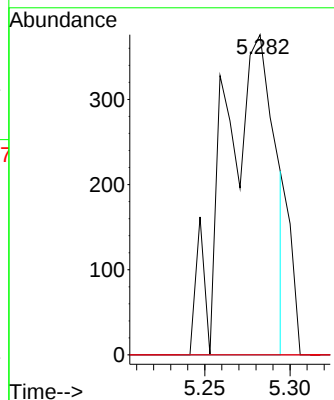
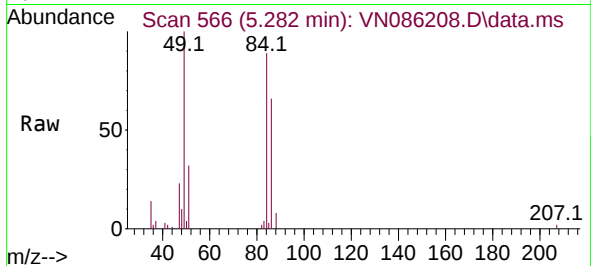




#14
 Allyl chloride
 Concen: 0.483 ug/l
 RT: 5.282 min Scan# 51
 Delta R.T. 0.264 min
 Lab File: VN086208.D
 Acq: 02 Apr 2025 15:07

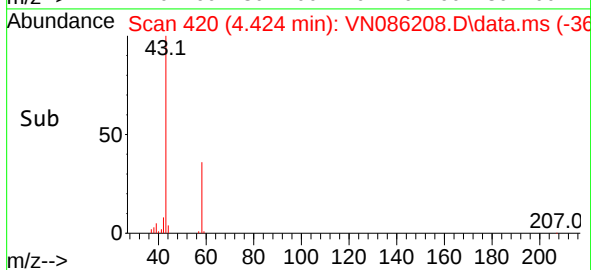
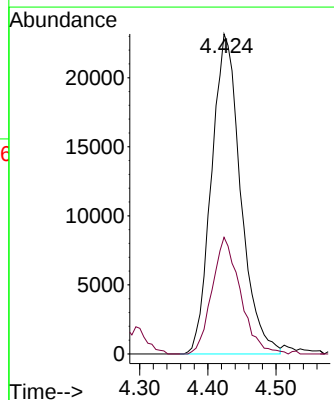
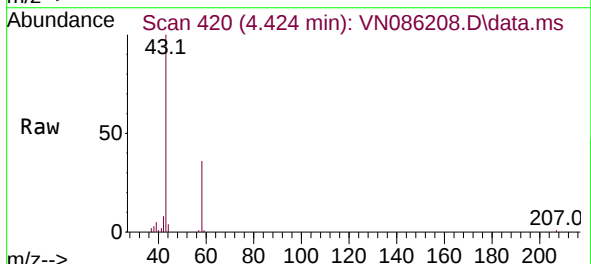
Instrument :
 MSVOA_N
 ClientSampleId :
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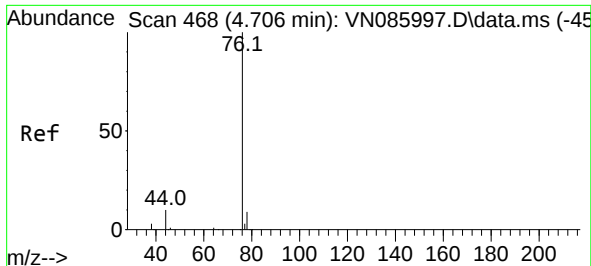
Tgt Ion: 41	Resp: 771
Ion Ratio	Lower Upper
41	100
39	0.0 55.5 83.3#
76	0.0 39.1 58.7#



#16
 Acetone
 Concen: 132.092 ug/l
 RT: 4.424 min Scan# 420
 Delta R.T. -0.000 min
 Lab File: VN086208.D
 Acq: 02 Apr 2025 15:07

Tgt Ion: 43	Resp: 69005
Ion Ratio	Lower Upper
43	100
58	36.4 29.4 44.2

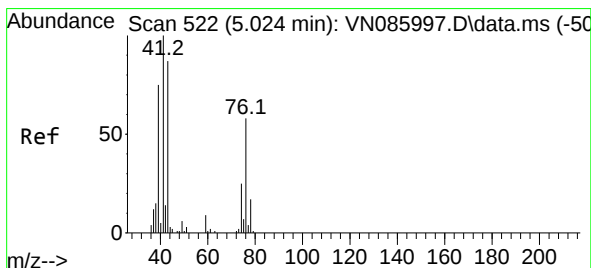
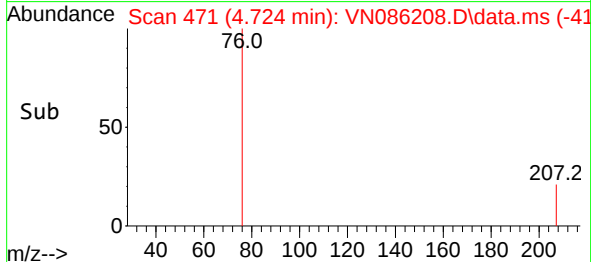
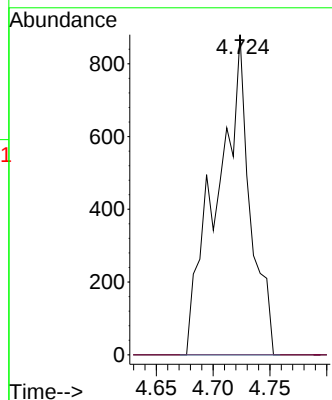
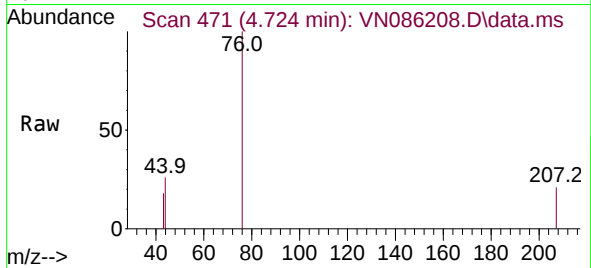




#17
Carbon Disulfide
Concen: 0.423 ug/l
RT: 4.724 min Scan# 41
Delta R.T. 0.017 min
Lab File: VN086208.D
Acq: 02 Apr 2025 15:07

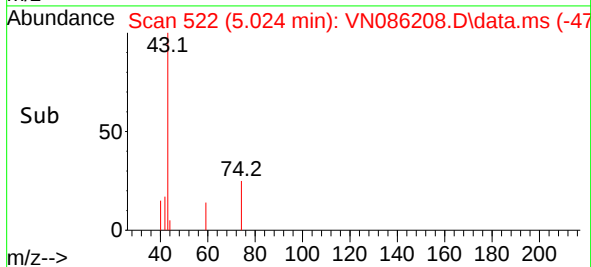
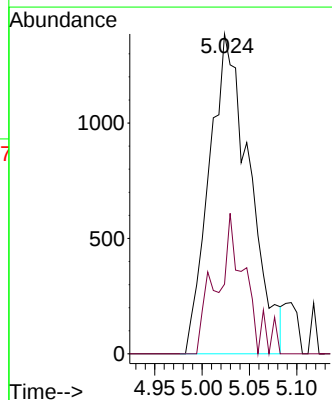
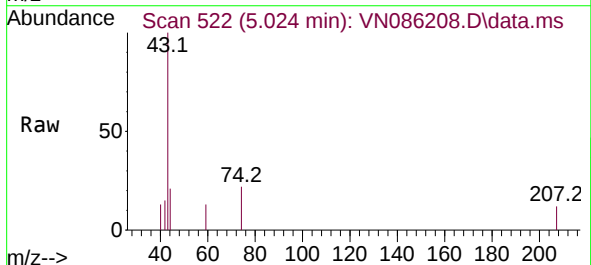
Instrument :
MSVOA_N
ClientSampleId :
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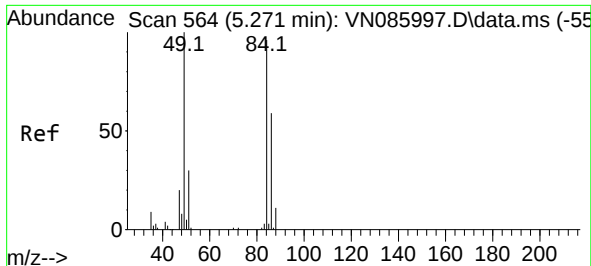
Tgt Ion: 76 Resp: 1781
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.2#



#18
Methyl Acetate
Concen: 3.174 ug/l
RT: 5.024 min Scan# 522
Delta R.T. -0.000 min
Lab File: VN086208.D
Acq: 02 Apr 2025 15:07

Tgt Ion: 43 Resp: 4102
Ion Ratio Lower Upper
43 100
74 19.3 23.9 35.9#

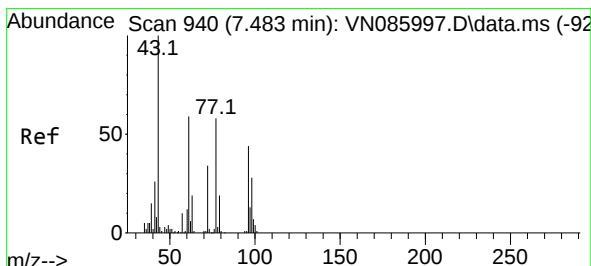
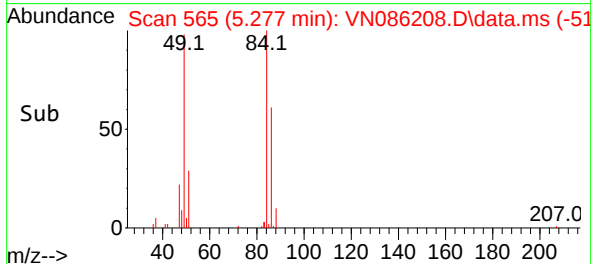
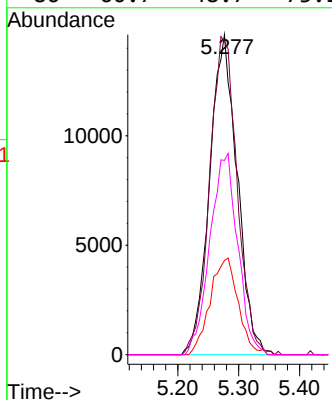
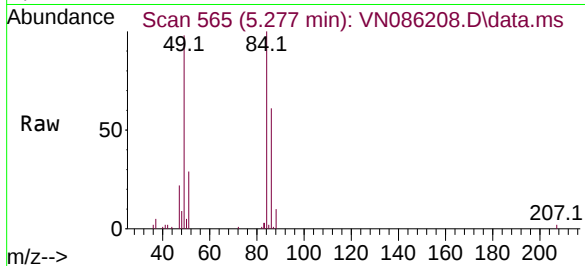




#20
Methylene Chloride
Concen: 30.080 ug/l
RT: 5.277 min Scan# 51
Delta R.T. 0.005 min
Lab File: VN086208.D
Acq: 02 Apr 2025 15:07

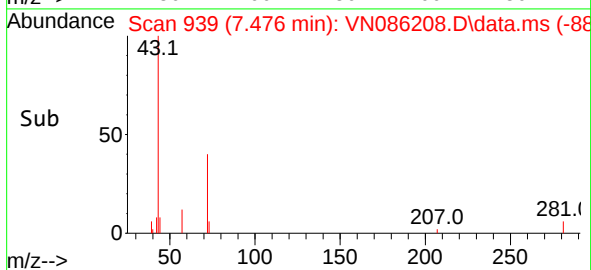
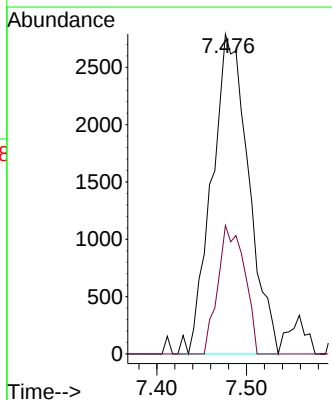
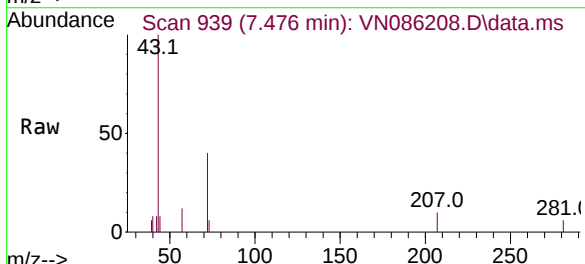
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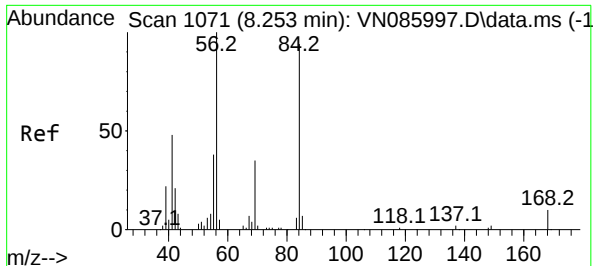
Tgt Ion:	84	Resp:	45970
Ion	Ratio	Lower	Upper
84	100		
49	98.0	83.3	124.9
51	29.4	24.8	37.2
86	60.7	48.7	73.1



#25
2-Butanone
Concen: 10.500 ug/l
RT: 7.476 min Scan# 939
Delta R.T. -0.006 min
Lab File: VN086208.D
Acq: 02 Apr 2025 15:07

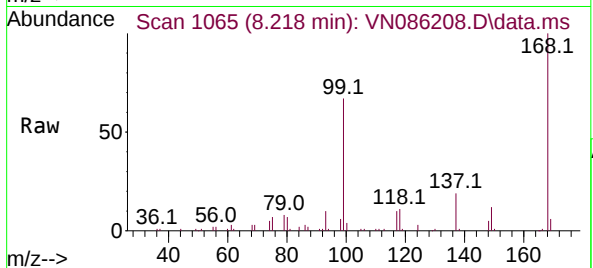
Tgt Ion:	43	Resp:	7915
Ion	Ratio	Lower	Upper
43	100		
72	40.2	27.4	41.0



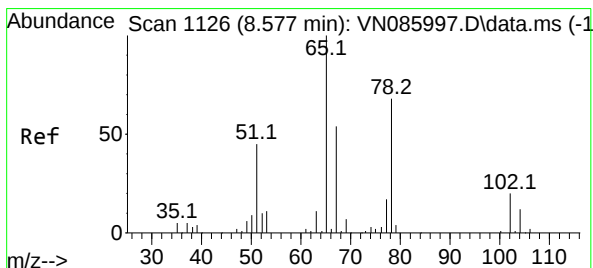
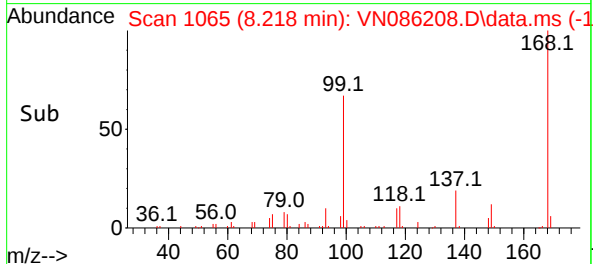
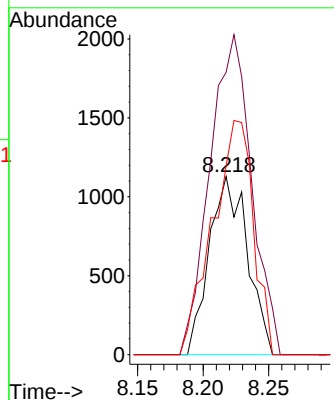


#31
Cyclohexane
Concen: 1.070 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.036 min
Lab File: VN086208.D
Acq: 02 Apr 2025 15:07

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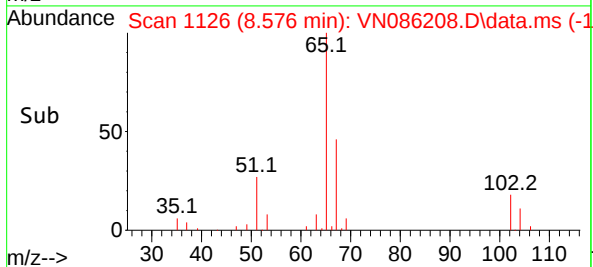
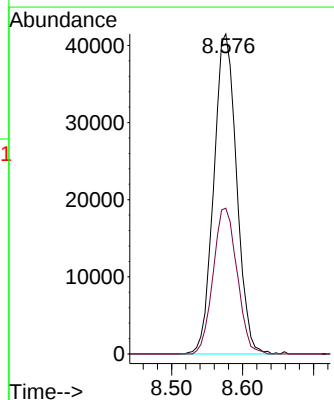
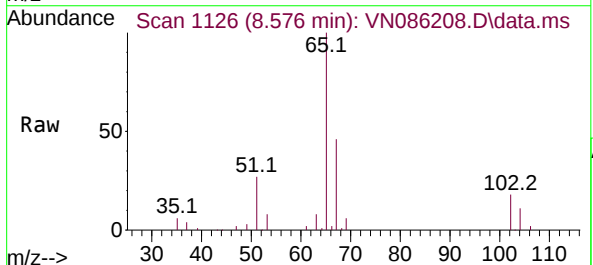


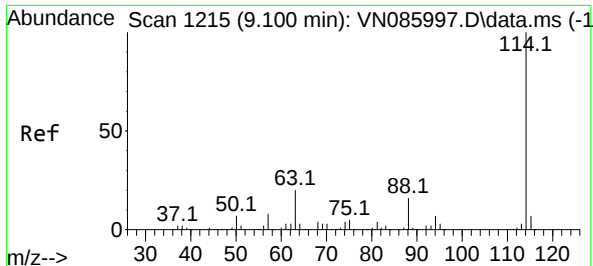
Tgt Ion: 56 Resp: 2280
Ion Ratio Lower Upper
56 100
69 158.6 28.0 42.0#
84 105.9 75.0 112.6



#33
1,2-Dichloroethane-d4
Concen: 54.058 ug/l
RT: 8.576 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN086208.D
Acq: 02 Apr 2025 15:07

Tgt Ion: 65 Resp: 92436
Ion Ratio Lower Upper
65 100
67 47.7 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: VN086208.D

Acq: 02 Apr 2025 15:07

Instrument :

MSVOA_N

ClientSampleId :

TP-4

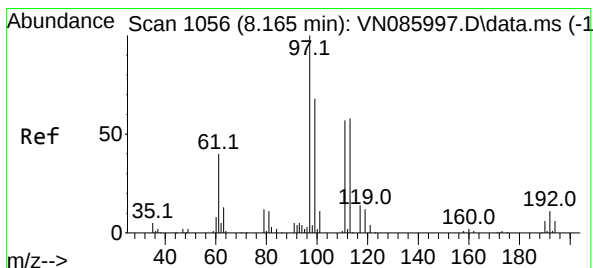
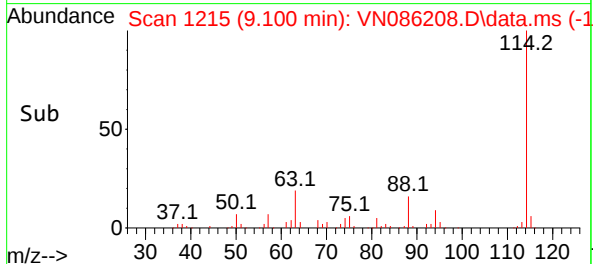
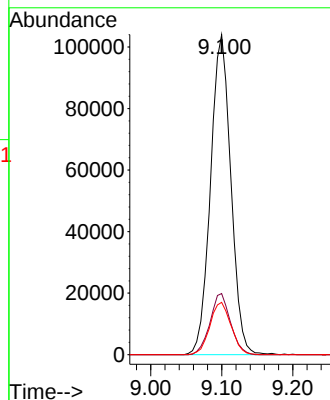
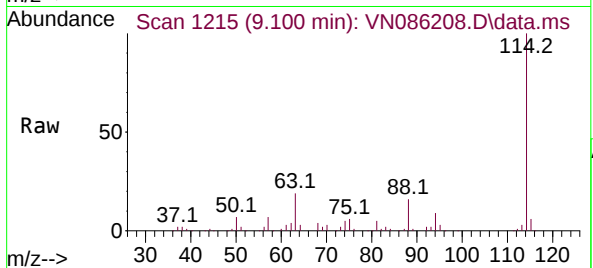
Tgt Ion:114 Resp: 206514

Ion Ratio Lower Upper

114 100

63 19.1 0.0 39.6

88 16.4 0.0 32.6



#35

Dibromofluoromethane

Concen: 48.204 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086208.D

Acq: 02 Apr 2025 15:07

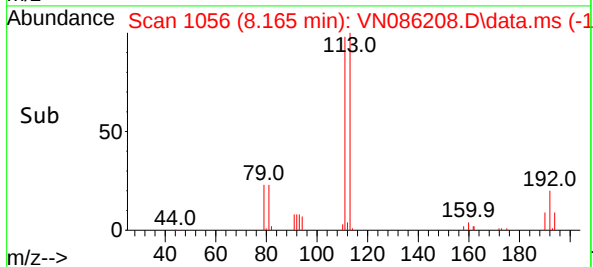
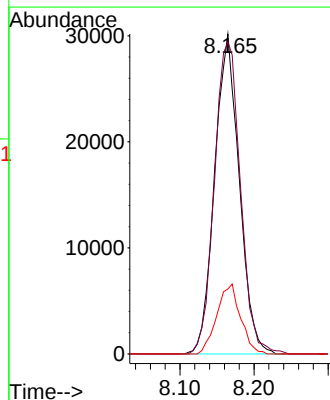
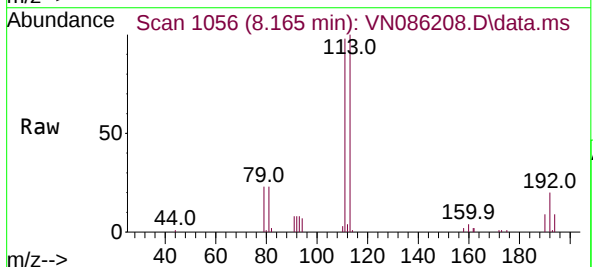
Tgt Ion:113 Resp: 69483

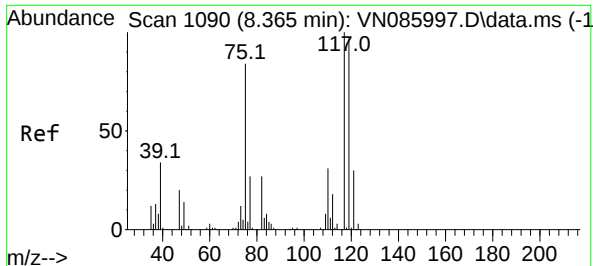
Ion Ratio Lower Upper

113 100

111 103.3 81.8 122.8

192 21.1 15.9 23.9





#36

1,1-Dichloropropene

Concen: 4.606 ug/l

RT: 8.212 min Scan# 1

Delta R.T. -0.153 min

Lab File: VN086208.D

Acq: 02 Apr 2025 15:07

Instrument :

MSVOA_N

ClientSampleId :

TP-4

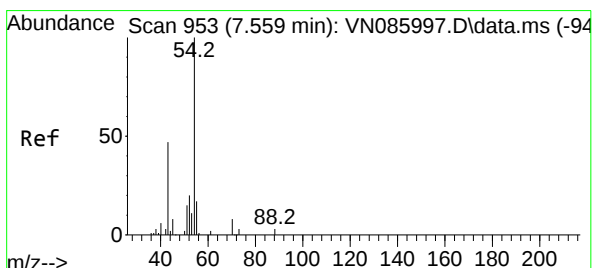
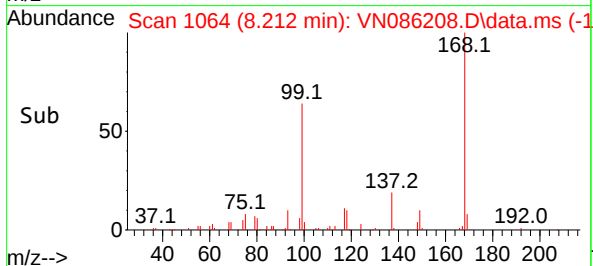
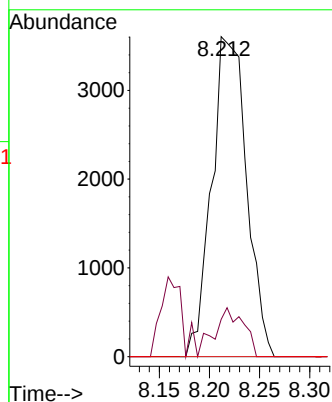
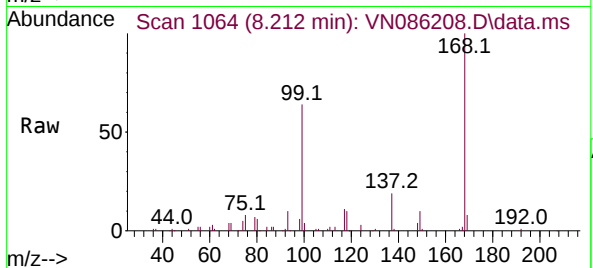
Tgt Ion: 75 Resp: 8743

Ion Ratio Lower Upper

75 100

110 12.7 17.8 53.3#

77 0.0 25.0 37.4#



#37

Ethyl Acetate

Concen: 0.280 ug/l

RT: 7.559 min Scan# 953

Delta R.T. -0.000 min

Lab File: VN086208.D

Acq: 02 Apr 2025 15:07

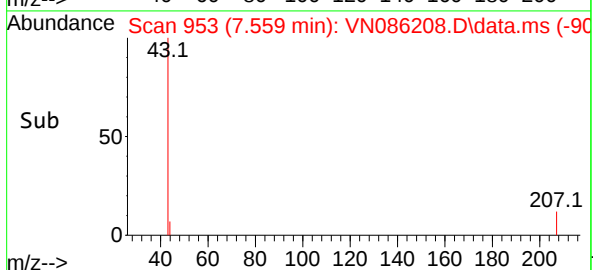
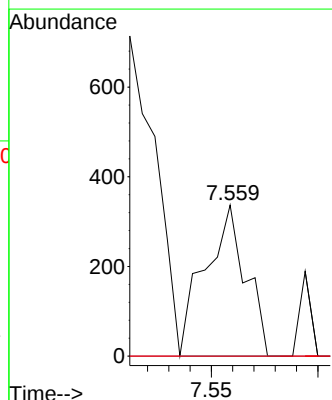
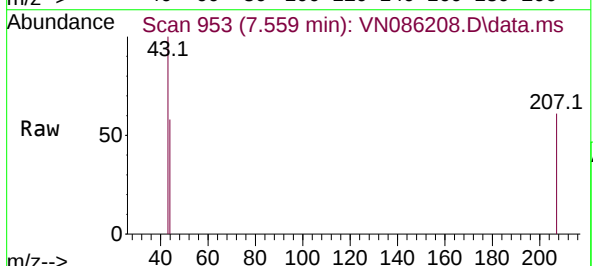
Tgt Ion: 43 Resp: 449

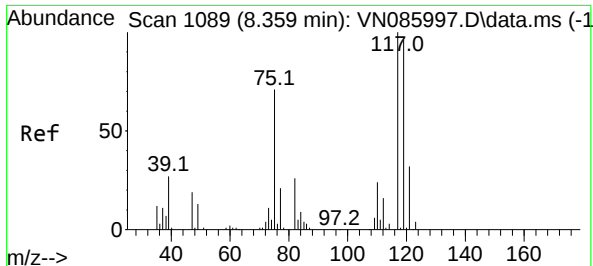
Ion Ratio Lower Upper

43 100

61 0.0 13.0 19.4#

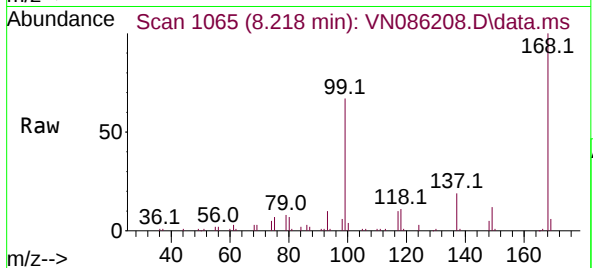
70 0.0 11.0 16.6#



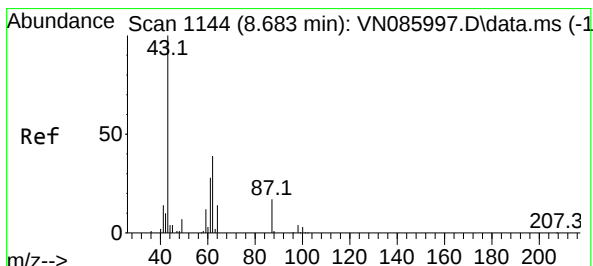
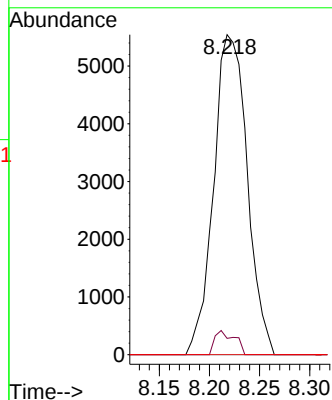
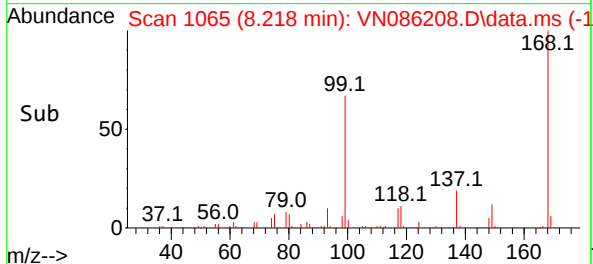


#38
Carbon Tetrachloride
Concen: 5.177 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.142 min
Lab File: VN086208.D
Acq: 02 Apr 2025 15:07

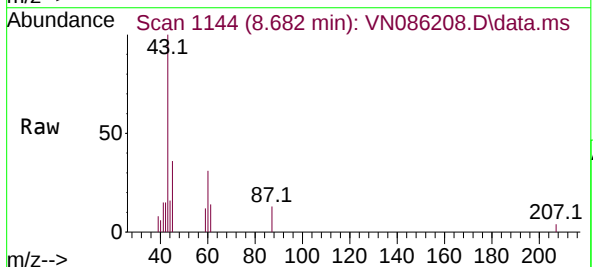
Instrument :
MSVOA_N
ClientSampleId :
TP-4



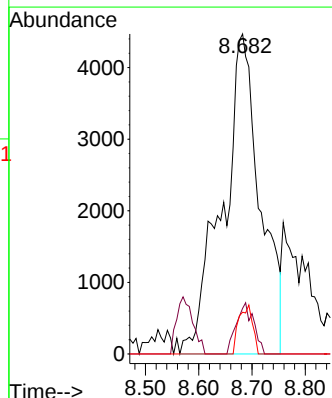
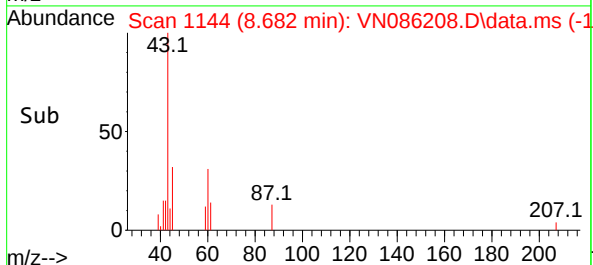
Tgt Ion: 117 Resp: 12920
Ion Ratio Lower Upper
117 100
119 5.1 77.0 115.4#
121 0.0 25.6 38.4#

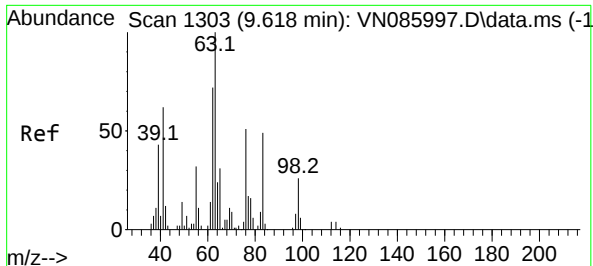


#43
Isopropyl Acetate
Concen: 6.326 ug/l
RT: 8.682 min Scan# 1144
Delta R.T. -0.000 min
Lab File: VN086208.D
Acq: 02 Apr 2025 15:07



Tgt Ion: 43 Resp: 21950
Ion Ratio Lower Upper
43 100
61 7.4 25.0 37.6#
87 5.6 13.0 19.4#





#45

1,2-Dichloropropane

Concen: 0.282 ug/l

RT: 9.735 min Scan# 1323

Delta R.T. 0.117 min

Lab File: VN086208.D

Acq: 02 Apr 2025 15:07

Instrument :

MSVOA_N

ClientSampleId :

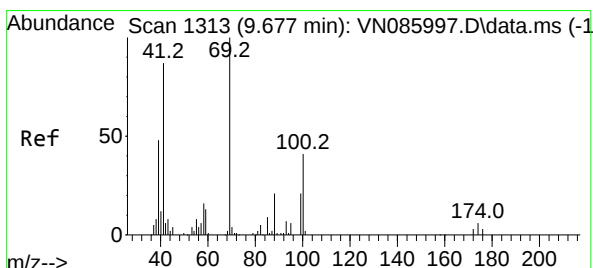
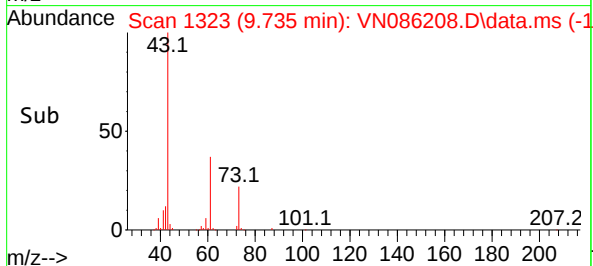
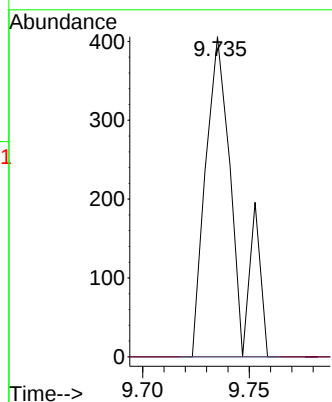
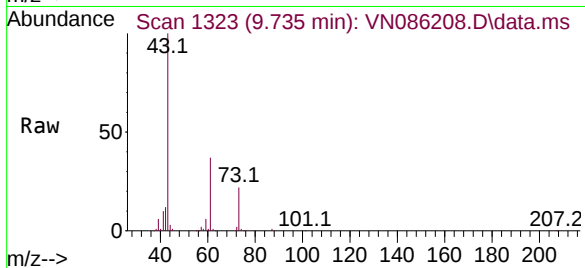
TP-4

Tgt Ion: 63 Resp: 382

Ion Ratio Lower Upper

63 100

65 0.0 24.7 37.1#



#48

Methyl methacrylate

Concen: 26.307 ug/l

RT: 9.735 min Scan# 1323

Delta R.T. 0.058 min

Lab File: VN086208.D

Acq: 02 Apr 2025 15:07

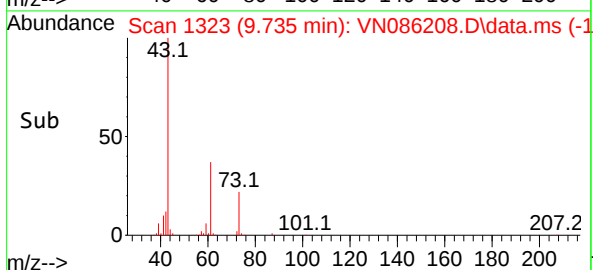
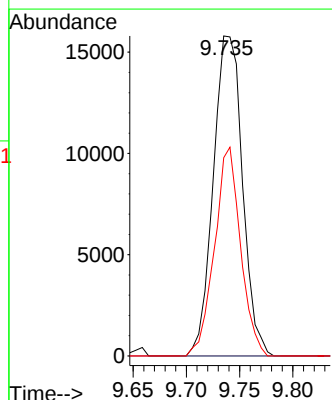
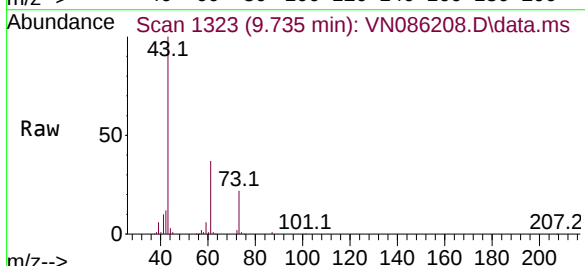
Tgt Ion: 41 Resp: 30122

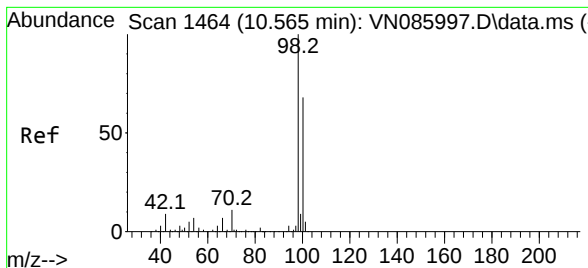
Ion Ratio Lower Upper

41 100

69 0.0 83.1 124.7#

39 58.2 45.6 68.4

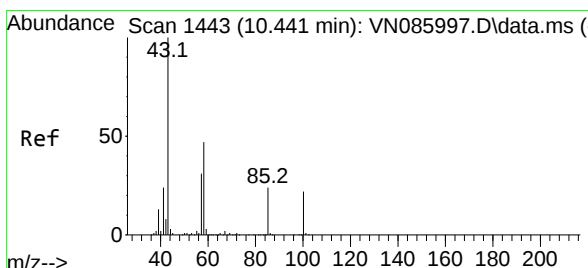
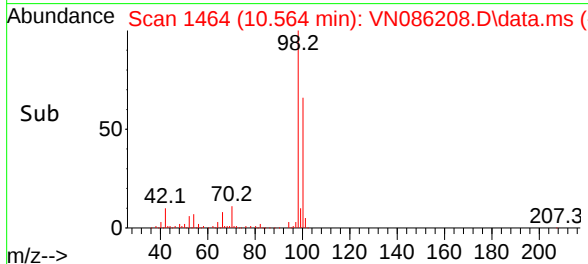
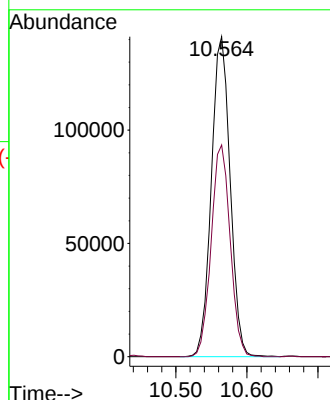
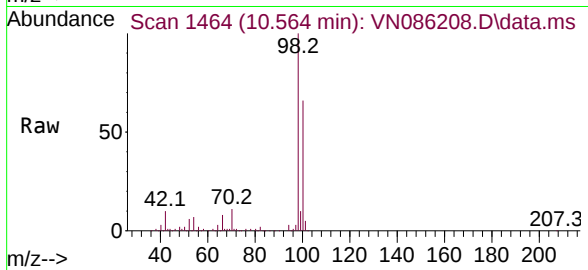




#50
Toluene-d8
Concen: 49.537 ug/l
RT: 10.564 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086208.D
Acq: 02 Apr 2025 15:07

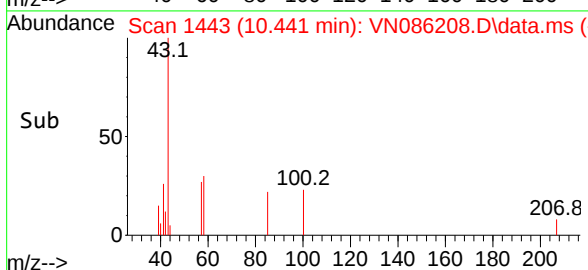
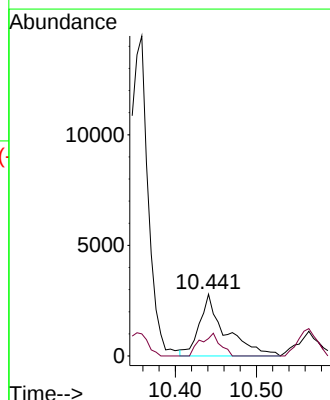
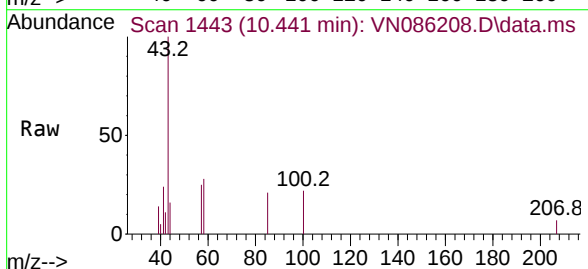
Instrument :
MSVOA_N
ClientSampleId :
TP-4

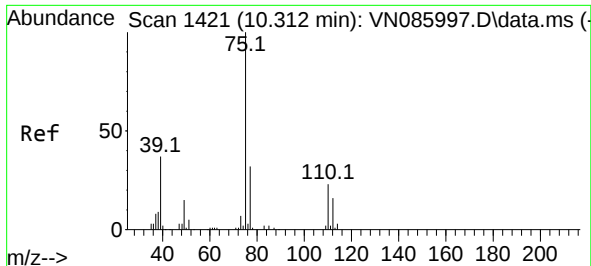
Tgt Ion: 98 Resp: 259147
Ion Ratio Lower Upper
98 100
100 66.9 53.1 79.7



#51
4-Methyl-2-Pentanone
Concen: 4.067 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086208.D
Acq: 02 Apr 2025 15:07

Tgt Ion: 43 Resp: 6223
Ion Ratio Lower Upper
43 100
58 27.6 37.4 56.0#

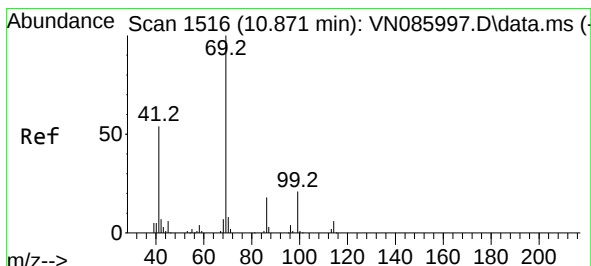
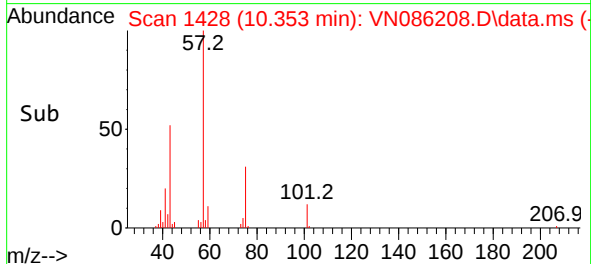
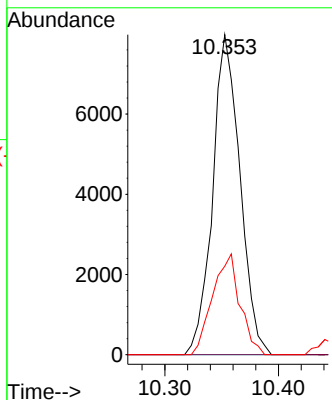
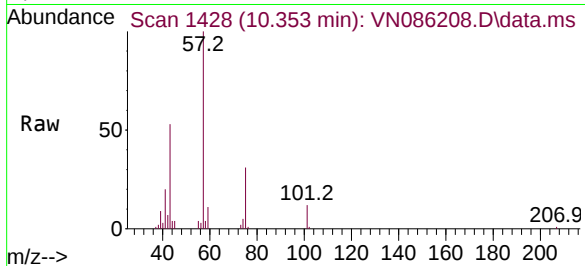




#54
 cis-1,3-Dichloropropene
 Concen: 5.847 ug/l
 RT: 10.353 min Scan# 1428
 Delta R.T. 0.041 min
 Lab File: VN086208.D
 Acq: 02 Apr 2025 15:07

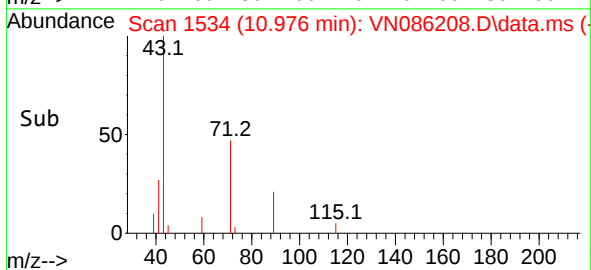
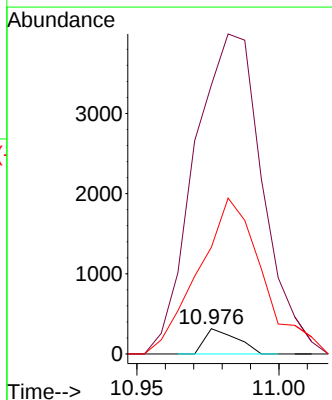
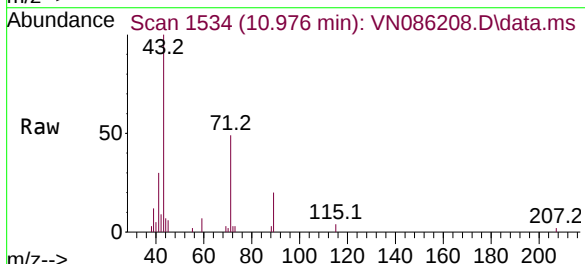
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-4

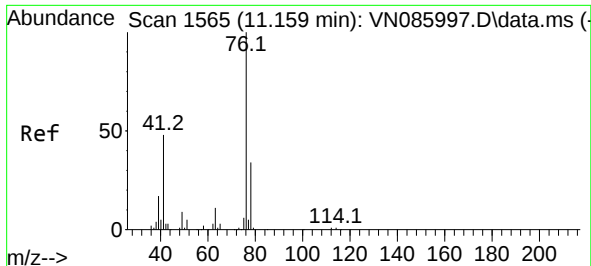
Tgt Ion: 75 Resp: 13344
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.3 37.9#
 39 27.6 29.6 44.4#



#56
 Ethyl methacrylate
 Concen: 0.328 ug/l
 RT: 10.976 min Scan# 1534
 Delta R.T. 0.105 min
 Lab File: VN086208.D
 Acq: 02 Apr 2025 15:07

Tgt Ion: 69 Resp: 248
 Ion Ratio Lower Upper
 69 100
 41 2715.3 41.6 62.4#
 39 1227.4 21.8 32.8#





#57

1,3-Dichloropropane

Concen: 0.540 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.041 min

Lab File: VN086208.D

Acq: 02 Apr 2025 15:07

Instrument :

MSVOA_N

ClientSampleId :

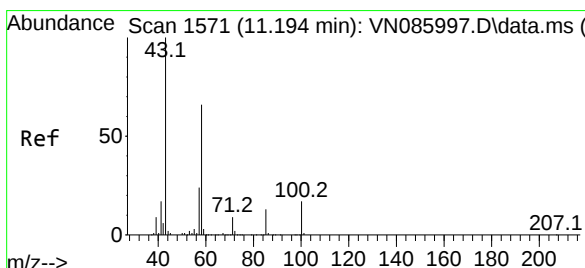
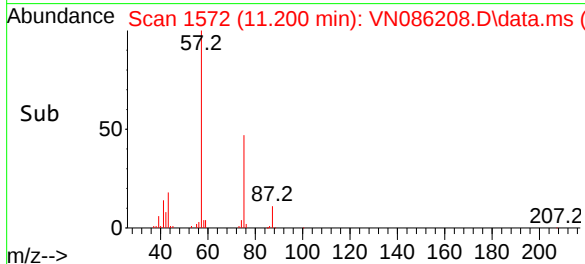
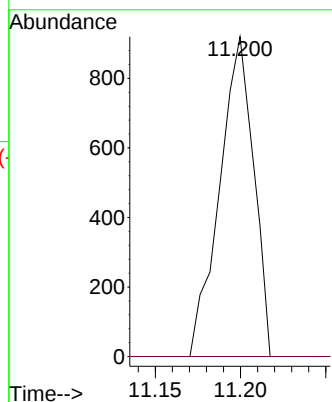
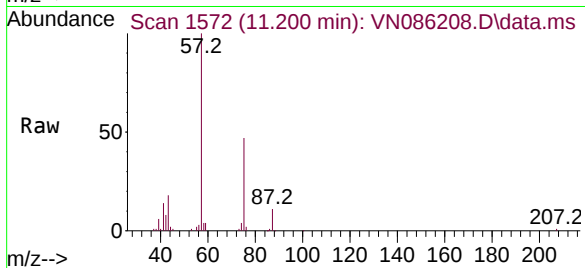
TP-4

Tgt Ion: 76 Resp: 1280

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.6#



#59

2-Hexanone

Concen: 17.834 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.005 min

Lab File: VN086208.D

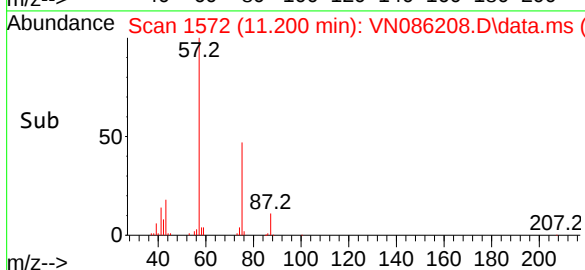
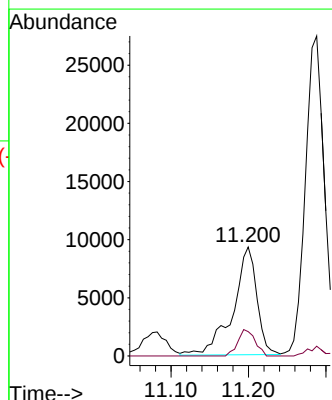
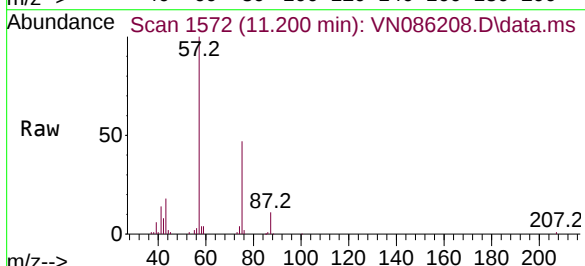
Acq: 02 Apr 2025 15:07

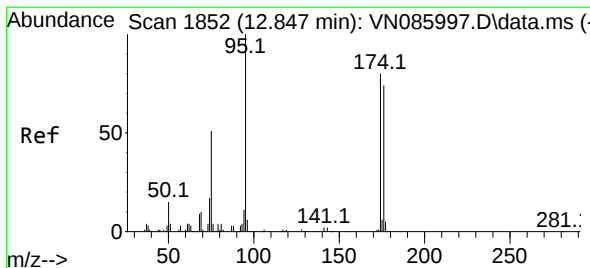
Tgt Ion: 43 Resp: 19881

Ion Ratio Lower Upper

43 100

58 17.7 32.4 97.2#

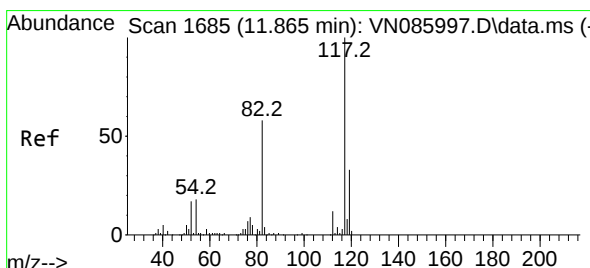
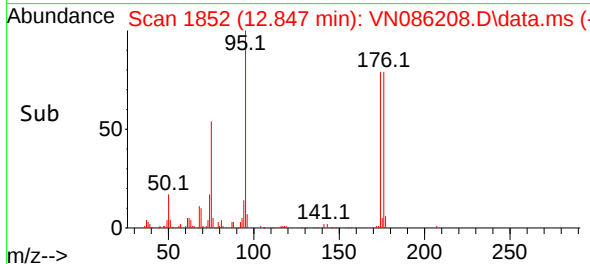
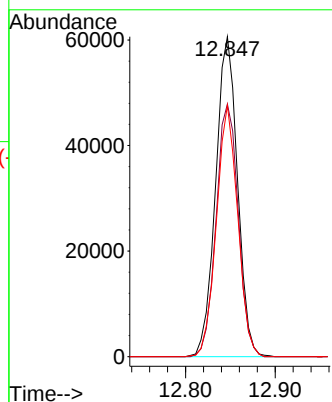
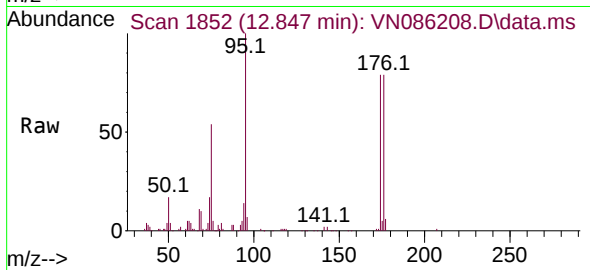




#62
4-Bromofluorobenzene
Concen: 54.917 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086208.D
Acq: 02 Apr 2025 15:07

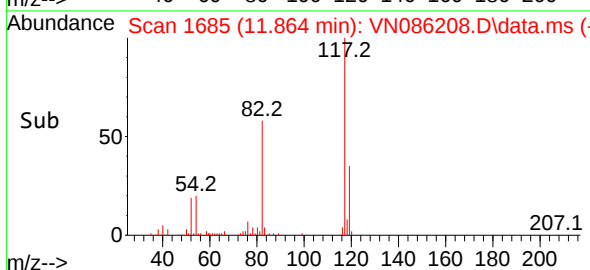
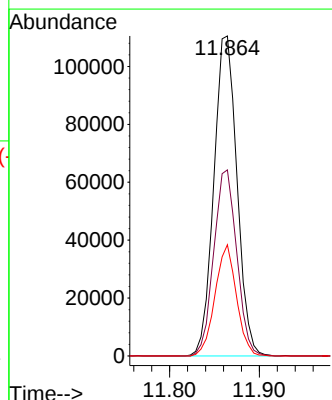
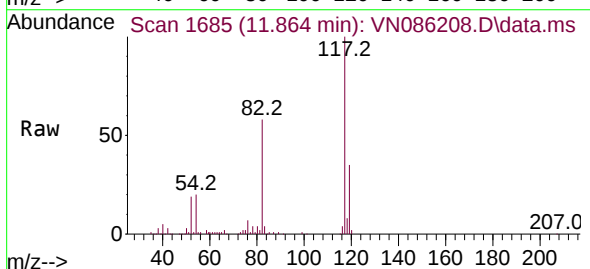
Instrument :
MSVOA_N
ClientSampleId :
TP-4

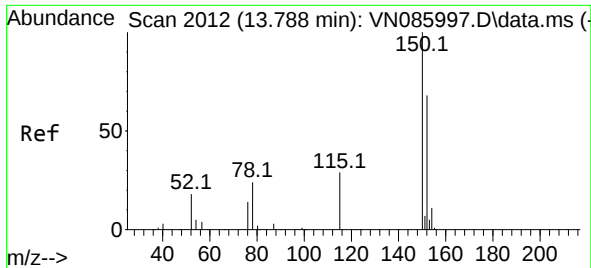
Tgt Ion: 95 Resp: 102457
Ion Ratio Lower Upper
95 100
174 79.9 0.0 156.8
176 76.4 0.0 152.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.864 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086208.D
Acq: 02 Apr 2025 15:07

Tgt Ion: 117 Resp: 198044
Ion Ratio Lower Upper
117 100
82 58.2 46.7 70.1
119 34.8 26.5 39.7

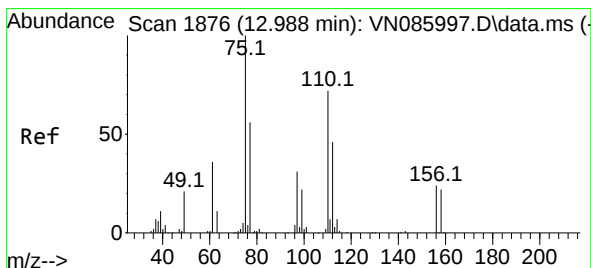
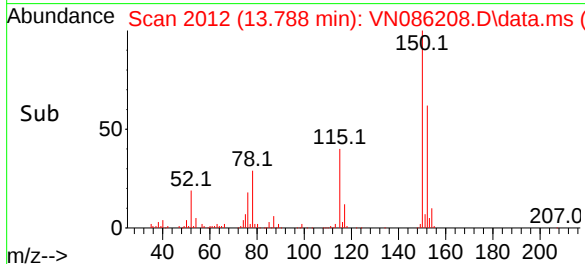
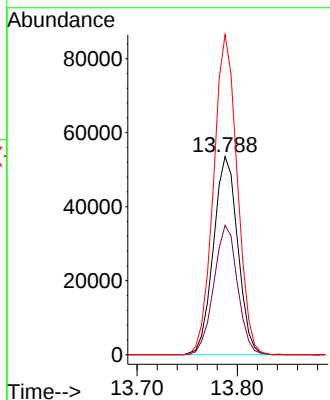
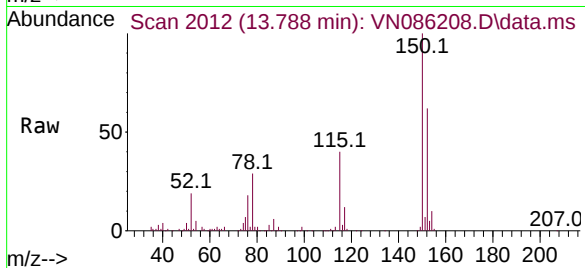




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.788 min Scan# 2012
 Delta R.T. -0.000 min
 Lab File: VN086208.D
 Acq: 02 Apr 2025 15:07

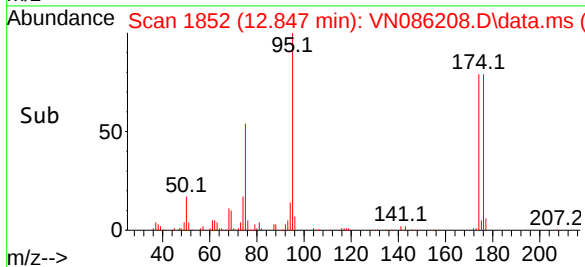
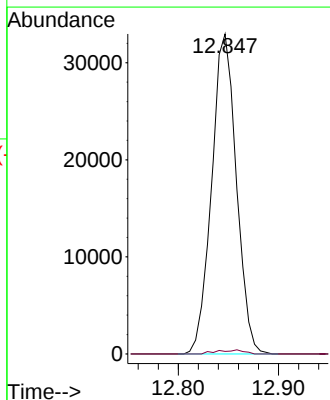
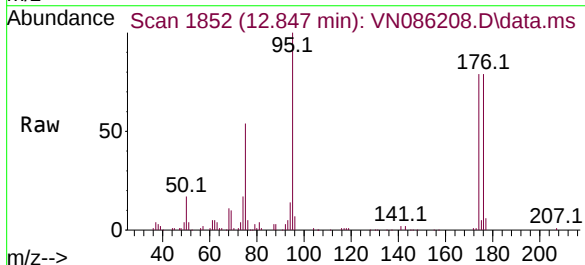
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-4

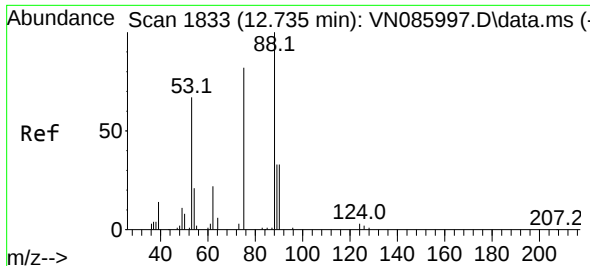
Tgt Ion:152 Resp: 89962
 Ion Ratio Lower Upper
 152 100
 115 63.8 31.1 93.2
 150 157.8 0.0 359.6



#76
 1,2,3-Trichloropropane
 Concen: 28.015 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. -0.142 min
 Lab File: VN086208.D
 Acq: 02 Apr 2025 15:07

Tgt Ion: 75 Resp: 56425
 Ion Ratio Lower Upper
 75 100
 77 1.4 83.7 251.0#

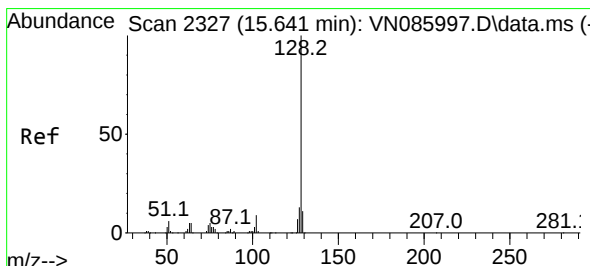
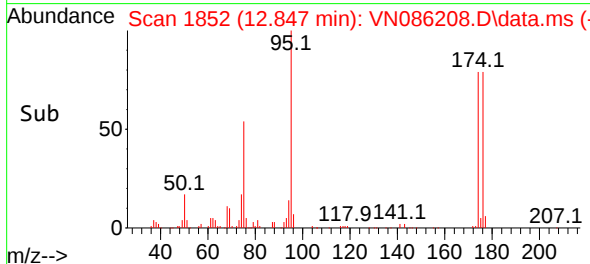
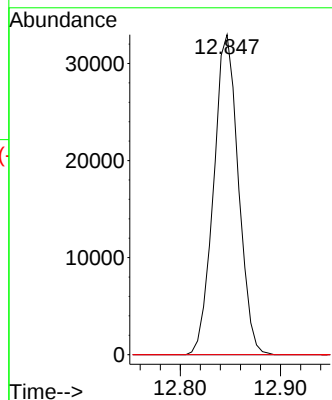
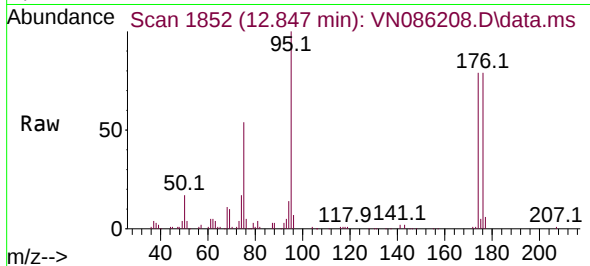




#81
trans-1,4-Dichloro-2-butene
Concen: 74.068 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.111 min
Lab File: VN086208.D
Acq: 02 Apr 2025 15:07

Instrument :
MSVOA_N
ClientSampleId :
TP-4

Tgt Ion: 75 Resp: 56425
Ion Ratio Lower Upper
75 100
53 0.0 66.0 99.0#
89 0.0 36.9 55.3#



#95
Naphthalene
Concen: 0.253 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. -0.006 min
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Tgt Ion: 128 Resp: 1131
Ion Ratio Lower Upper
128 100
127 0.0 10.2 15.4#
129 0.0 9.0 13.6#

