

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032125\
 Data File : VN086045.D
 Acq On : 21 Mar 2025 17:18
 Operator : JC\MD
 Sample : PB167234ZHE#05
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167234ZHE#05

Quant Time: Mar 21 23:01:04 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

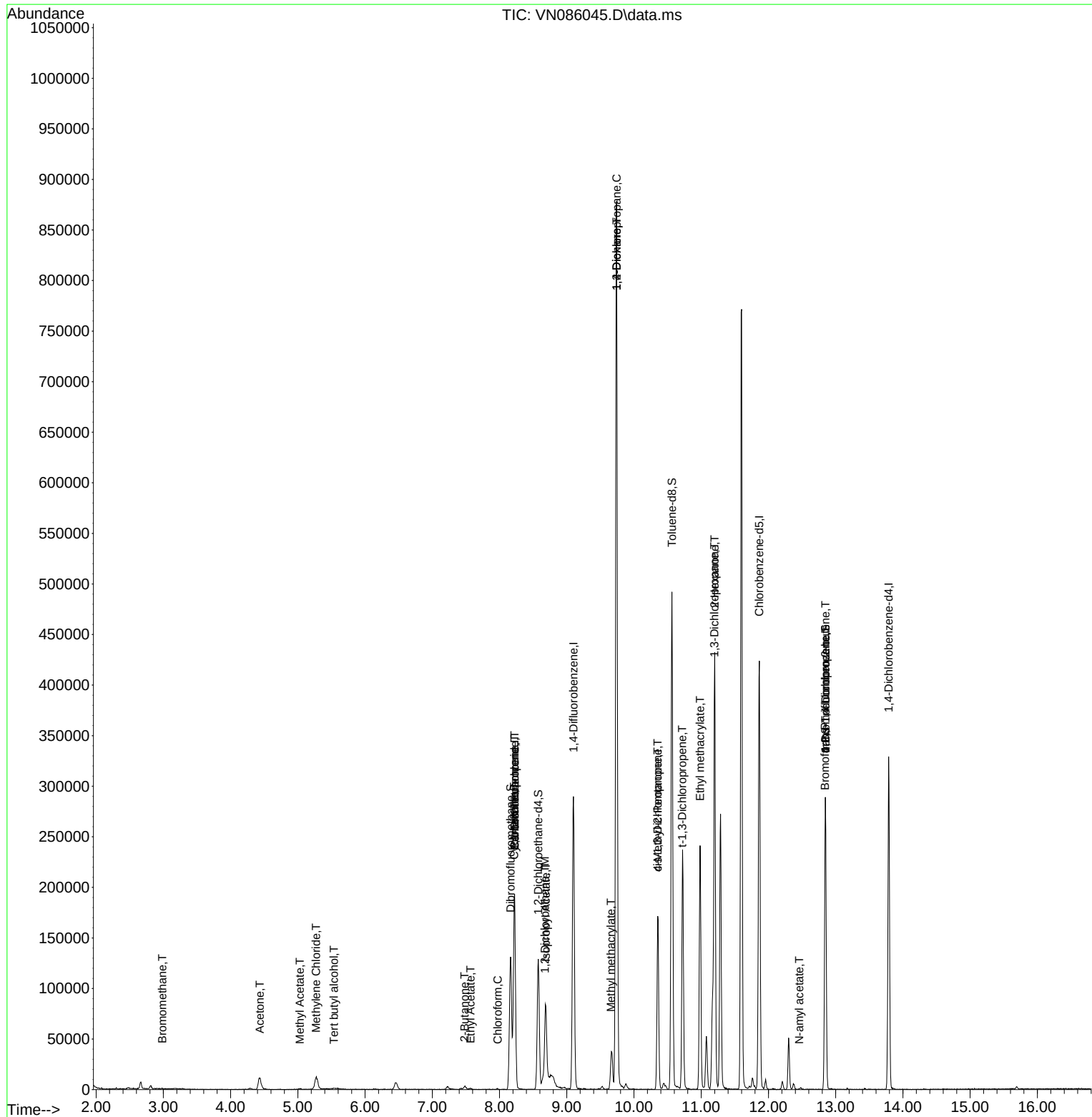
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

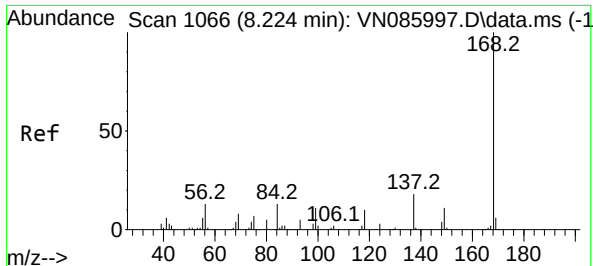
Internal Standards						
1) Pentafluorobenzene	8.224	168	139623	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	256399	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	255466	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	94489	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	108915	56.966	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 113.940%			
35) Dibromofluoromethane	8.165	113	94617	52.869	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.740%			
50) Toluene-d8	10.565	98	341159	52.525	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 105.060%			
62) 4-Bromofluorobenzene	12.847	95	101386	43.770	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 87.540%			
Target Compounds						Qvalue
5) Bromomethane	2.983	94	294	0.260	ug/l #	4
11) Tert butyl alcohol	5.536	59	550	2.032	ug/l #	73
16) Acetone	4.436	43	22223	38.046	ug/l	95
18) Methyl Acetate	5.030	43	943	0.653	ug/l #	56
20) Methylene Chloride	5.271	84	10069	5.893	ug/l #	91
25) 2-Butanone	7.483	43	5462	6.481	ug/l	88
30) Chloroform	7.971	83	988	0.320	ug/l	93
31) Cyclohexane	8.218	56	2823	1.185	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	10894	4.623	ug/l #	51
37) Ethyl Acetate	7.571	43	2143	1.078	ug/l #	67
38) Carbon Tetrachloride	8.224	117	14715	4.749	ug/l #	17
42) 1,2-Dichloroethane	8.677	62	574	0.223	ug/l #	74
43) Isopropyl Acetate	8.688	43	100309	23.284	ug/l #	82
45) 1,2-Dichloropropane	9.741	63	1165	0.692	ug/l #	44
48) Methyl methacrylate	9.659	41	2744	1.930	ug/l #	7
49) 1,4-Dioxane	9.741	88	68	2.023	ug/l #	1
51) 4-Methyl-2-Pentanone	10.353	43	56869	29.932	ug/l #	43
53) t-1,3-Dichloropropene	10.718	75	849	0.316	ug/l #	55
54) cis-1,3-Dichloropropene	10.353	75	33271	11.742	ug/l #	65
56) Ethyl methacrylate	10.982	69	1658	0.945	ug/l #	1
57) 1,3-Dichloropropane	11.194	76	4668	1.586	ug/l #	42
59) 2-Hexanone	11.200	43	53751	38.835	ug/l #	50
71) Bromoform	12.841	173	668	0.368	ug/l #	1
74) N-amyl acetate	12.459	43	1306	0.605	ug/l #	35
76) 1,2,3-Trichloropropane	12.847	75	51386	24.291	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	51386	64.221	ug/l #	16

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

Instrument :
MSVOA_N
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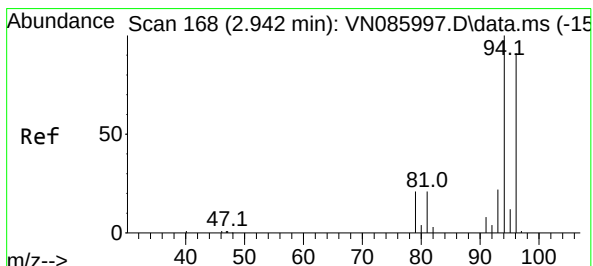
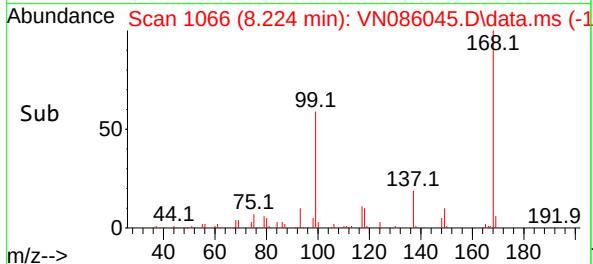
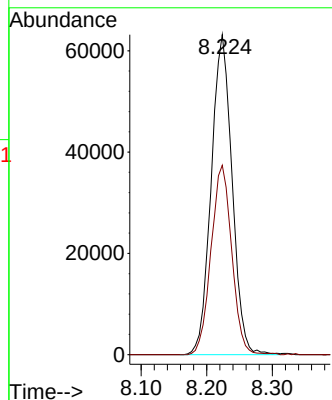
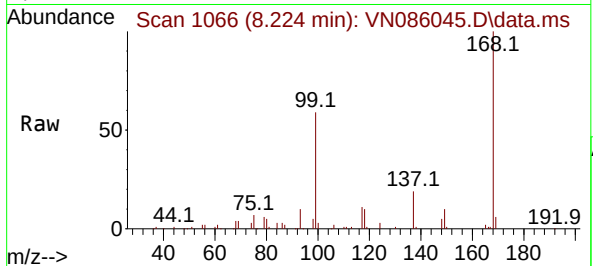




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN086045.D
Acq: 21 Mar 2025 17:18

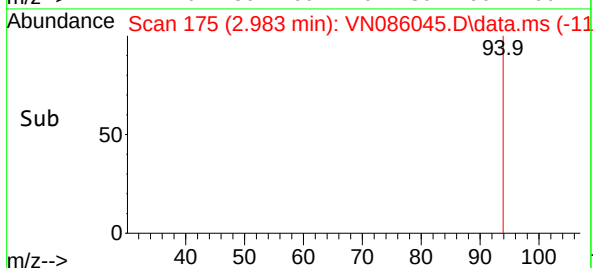
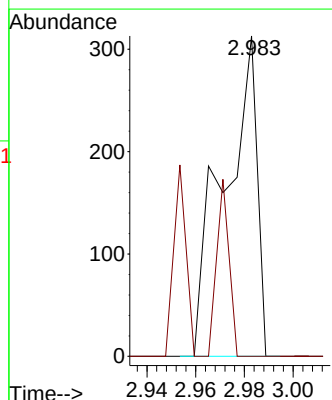
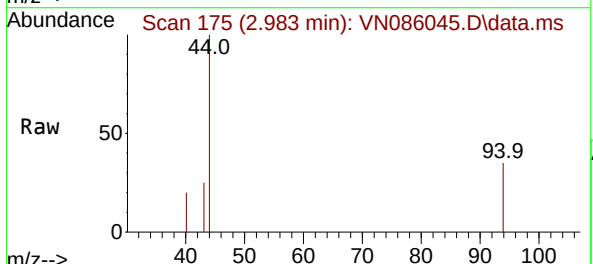
Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#05

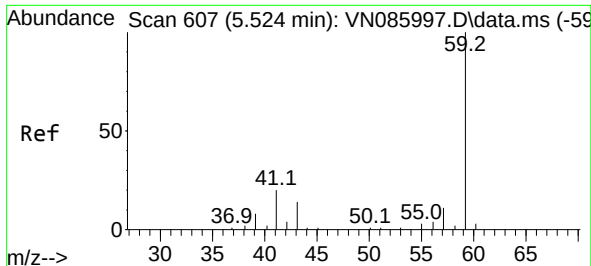
Tgt Ion:168 Resp: 139623
Ion Ratio Lower Upper
168 100
99 59.2 49.4 74.2



#5
Bromomethane
Concen: 0.260 ug/l
RT: 2.983 min Scan# 175
Delta R.T. 0.041 min
Lab File: VN086045.D
Acq: 21 Mar 2025 17:18

Tgt Ion: 94 Resp: 294
Ion Ratio Lower Upper
94 100
96 0.0 72.8 109.2#

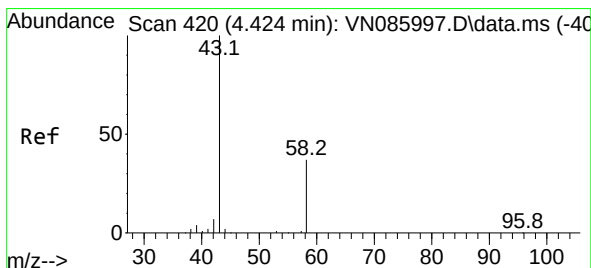
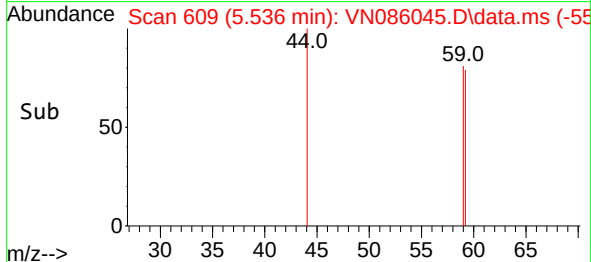
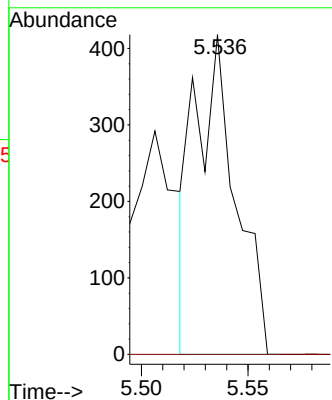
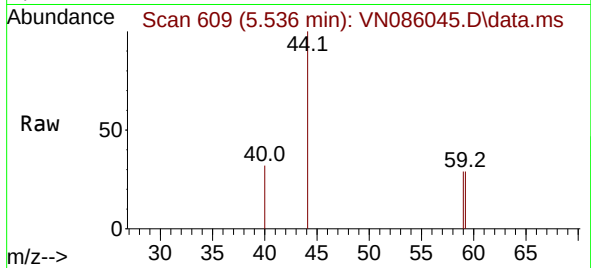




#11
Tert butyl alcohol
Concen: 2.032 ug/l
RT: 5.536 min Scan# 607
Delta R.T. 0.012 min
Lab File: VN086045.D
Acq: 21 Mar 2025 17:18

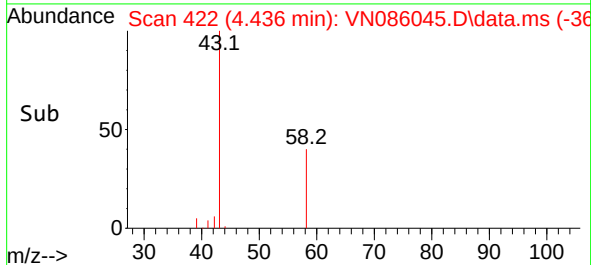
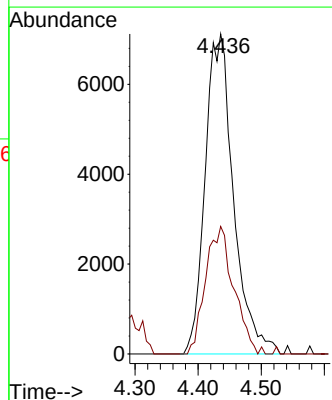
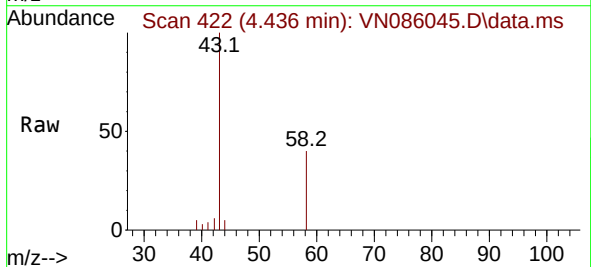
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MSVOA_N
ClientSampleId :
PB167234ZHE#05

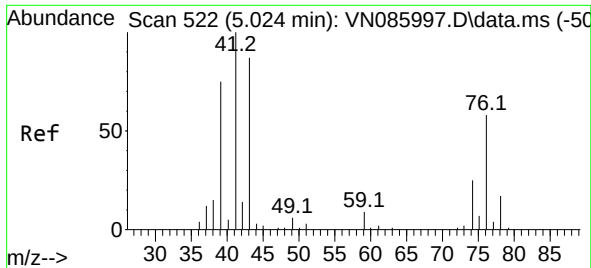
Tgt Ion: 59 Resp: 550
Ion Ratio Lower Upper
59 100
57 0.0 7.9 11.9#



#16
Acetone
Concen: 38.046 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.012 min
Lab File: VN086045.D
Acq: 21 Mar 2025 17:18

Tgt Ion: 43 Resp: 22223
Ion Ratio Lower Upper
43 100
58 39.9 29.4 44.2

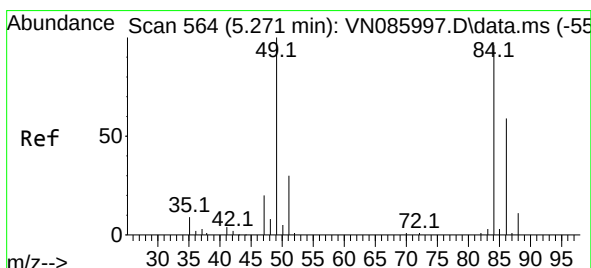
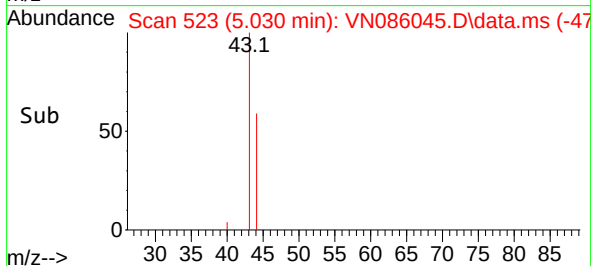
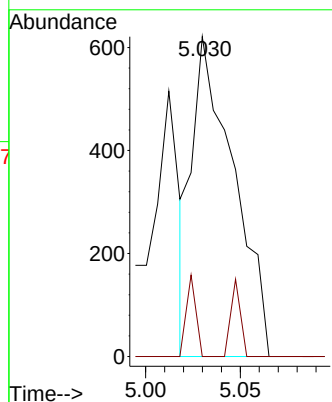
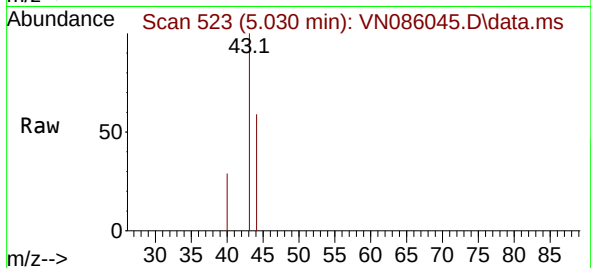




#18
Methyl Acetate
Concen: 0.653 ug/l
RT: 5.030 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN086045.D
Acq: 21 Mar 2025 17:18

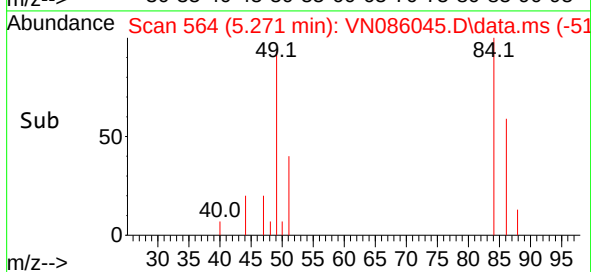
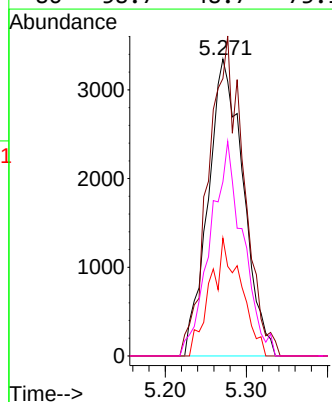
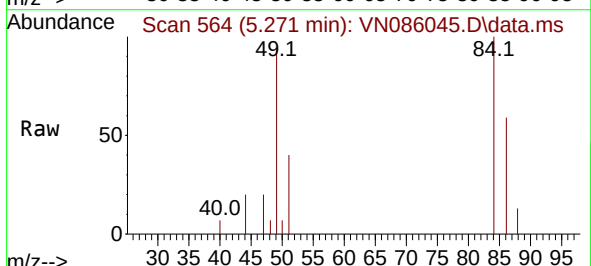
Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#05

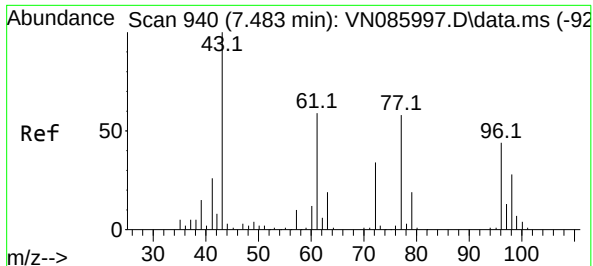
Tgt Ion: 43 Resp: 943
Ion Ratio Lower Upper
43 100
74 5.9 23.9 35.9#



#20
Methylene Chloride
Concen: 5.893 ug/l
RT: 5.271 min Scan# 564
Delta R.T. -0.000 min
Lab File: VN086045.D
Acq: 21 Mar 2025 17:18

Tgt Ion: 84 Resp: 10069
Ion Ratio Lower Upper
84 100
49 93.5 83.3 124.9
51 39.7 24.8 37.2#
86 58.7 48.7 73.1

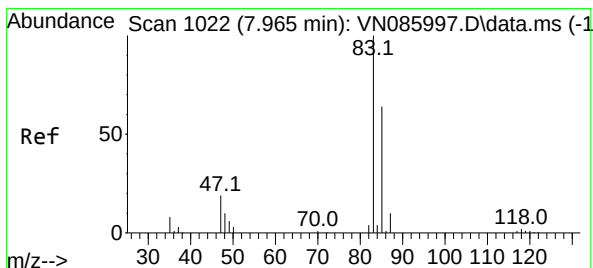
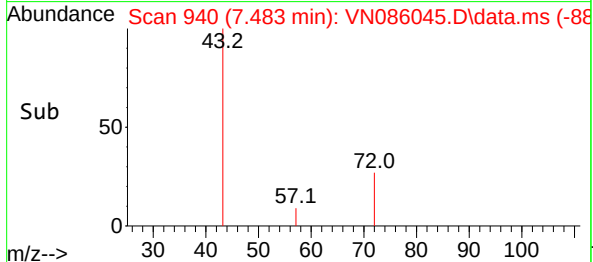
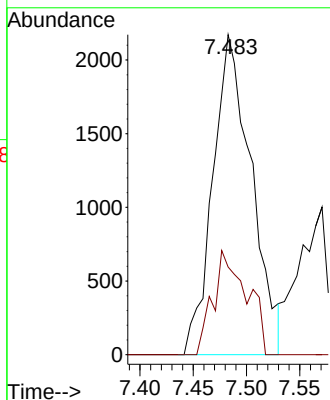
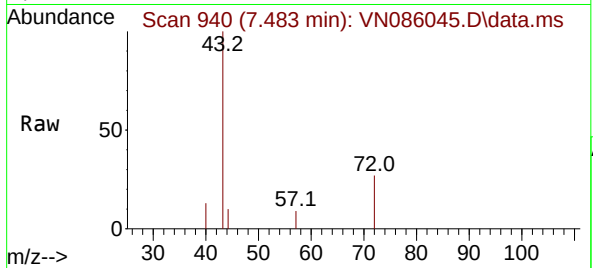




#25
2-Butanone
Concen: 6.481 ug/l
RT: 7.483 min Scan# 940
Delta R.T. -0.000 min
Lab File: VN086045.D
Acq: 21 Mar 2025 17:18

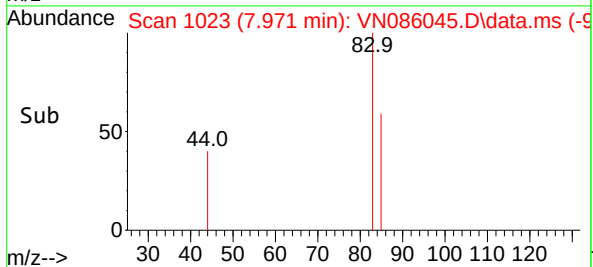
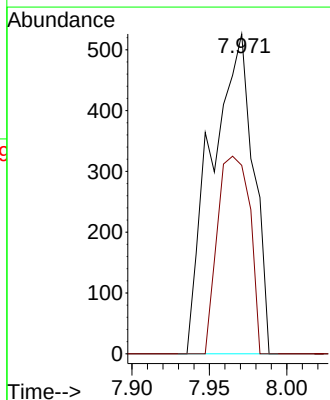
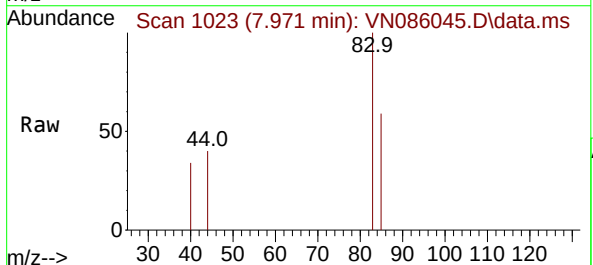
Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#05

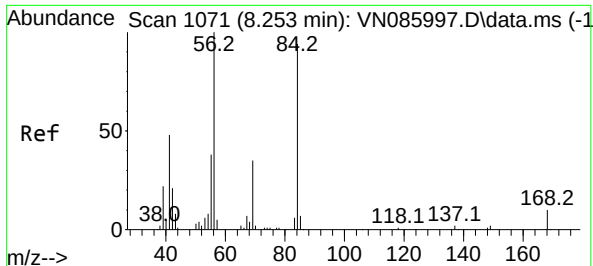
Tgt Ion: 43 Resp: 5462
Ion Ratio Lower Upper
43 100
72 27.4 27.4 41.0



#30
Chloroform
Concen: 0.320 ug/l
RT: 7.971 min Scan# 1023
Delta R.T. 0.006 min
Lab File: VN086045.D
Acq: 21 Mar 2025 17:18

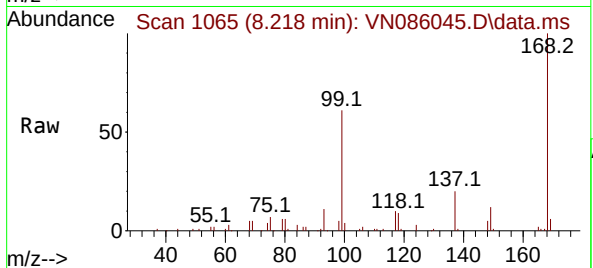
Tgt Ion: 83 Resp: 988
Ion Ratio Lower Upper
83 100
85 58.9 51.5 77.3





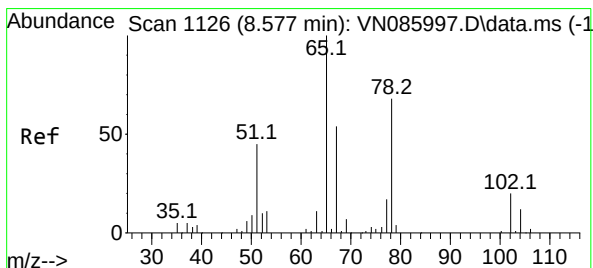
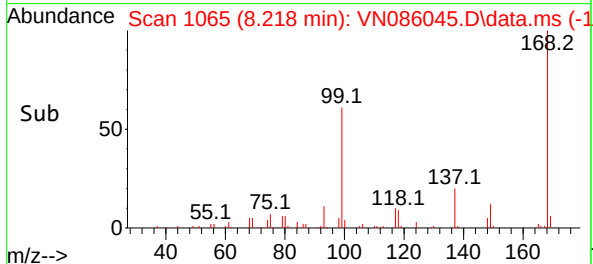
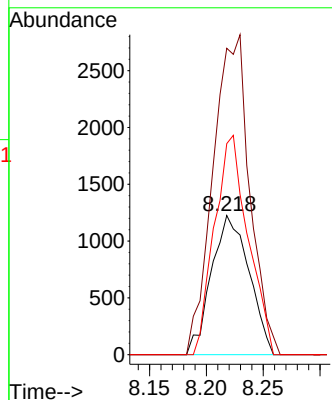
#31
Cyclohexane
Concen: 1.185 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.035 min
Lab File: VN086045.D
Acq: 21 Mar 2025 17:18

Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#05



Tgt Ion: 56 Resp: 2823

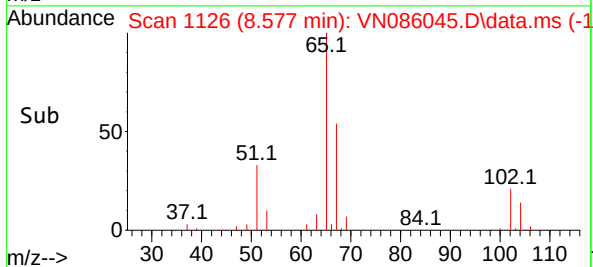
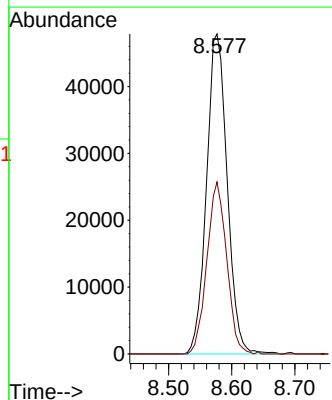
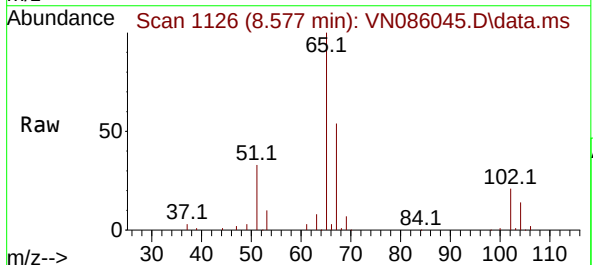
Ion	Ratio	Lower	Upper
56	100		
69	220.2	28.0	42.0#
84	151.6	75.0	112.6#

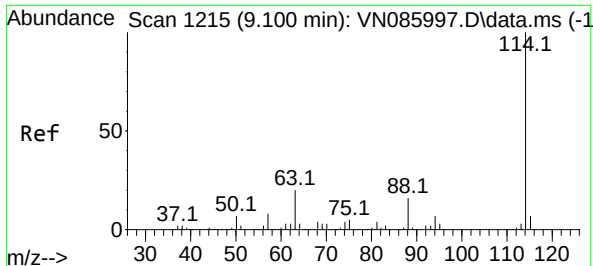


#33
1,2-Dichloroethane-d4
Concen: 56.966 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN086045.D
Acq: 21 Mar 2025 17:18

Tgt Ion: 65 Resp: 108915

Ion	Ratio	Lower	Upper
65	100		
67	51.4	0.0	102.2

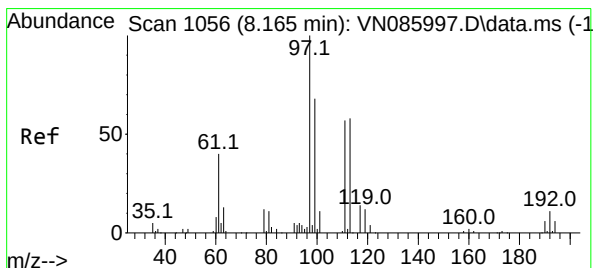
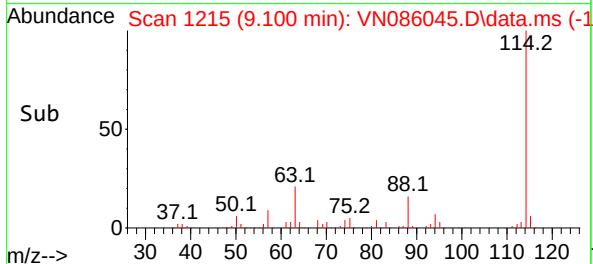
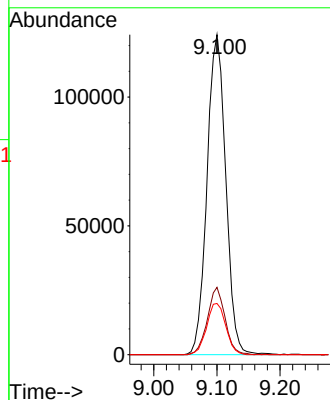
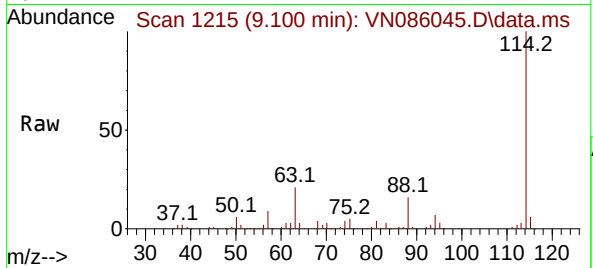




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086045.D
Acq: 21 Mar 2025 17:18

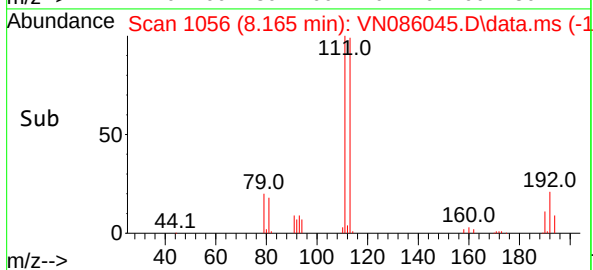
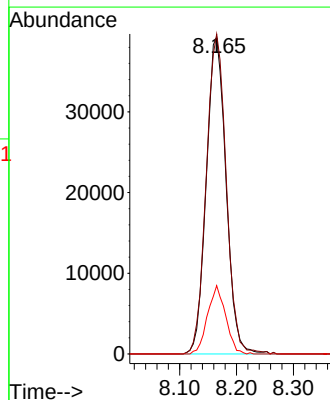
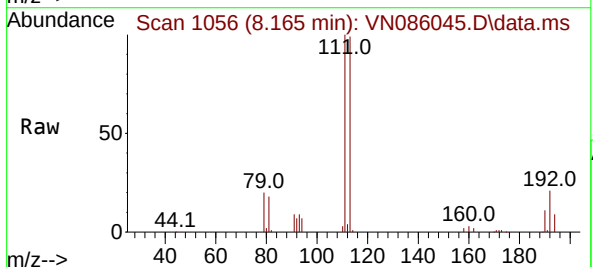
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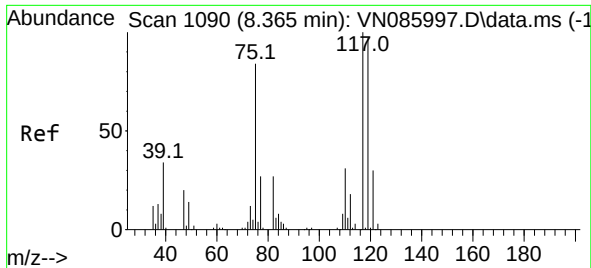
Tgt Ion:114 Resp: 256399
Ion Ratio Lower Upper
114 100
63 21.0 0.0 39.6
88 16.0 0.0 32.6



#35
Dibromofluoromethane
Concen: 52.869 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN086045.D
Acq: 21 Mar 2025 17:18

Tgt Ion:113 Resp: 94617
Ion Ratio Lower Upper
113 100
111 102.1 81.8 122.8
192 19.7 15.9 23.9

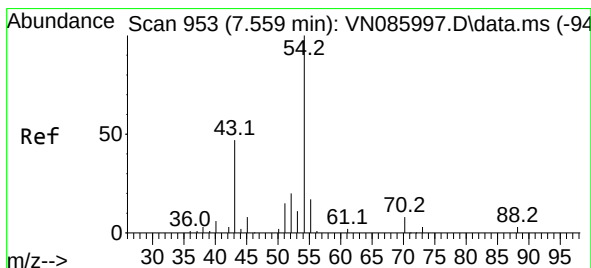
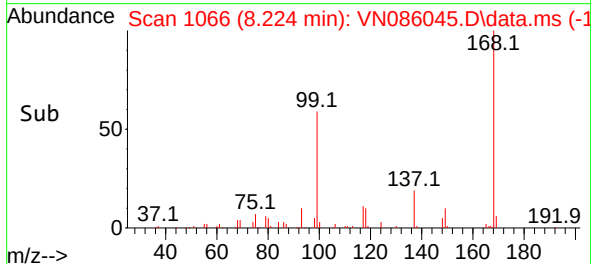
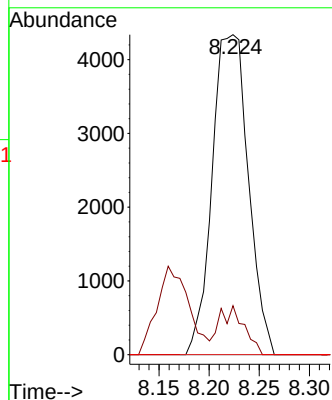
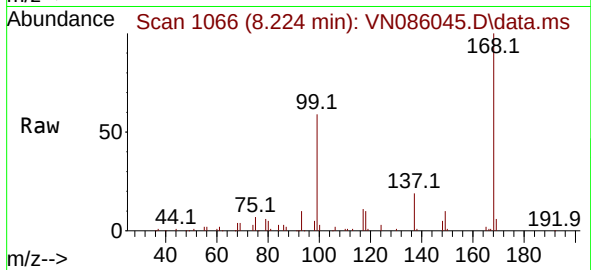




#36
1,1-Dichloropropene
Concen: 4.623 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.141 min
Lab File: VN086045.D
Acq: 21 Mar 2025 17:18

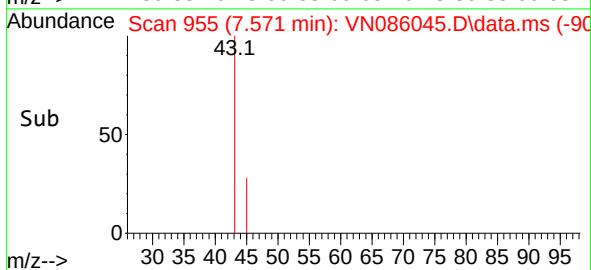
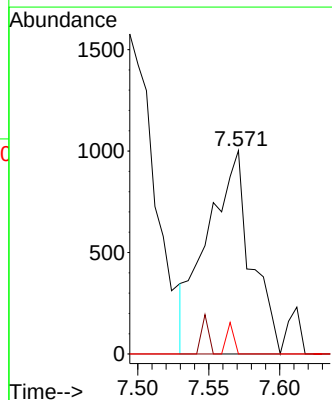
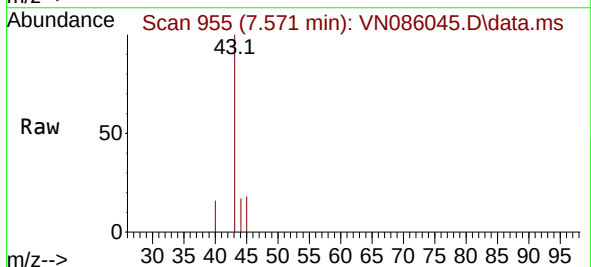
Instrument :
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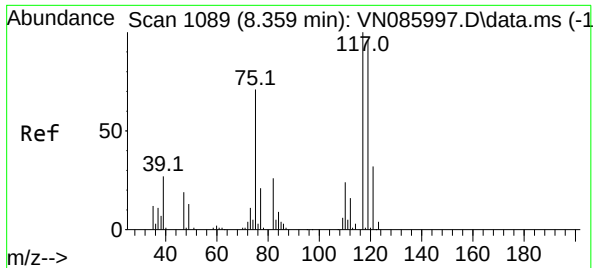
Tgt Ion: 75 Resp: 10894
Ion Ratio Lower Upper
75 100
110 10.4 17.8 53.3#
77 0.0 25.0 37.4#



#37
Ethyl Acetate
Concen: 1.078 ug/l
RT: 7.571 min Scan# 955
Delta R.T. 0.012 min
Lab File: VN086045.D
Acq: 21 Mar 2025 17:18

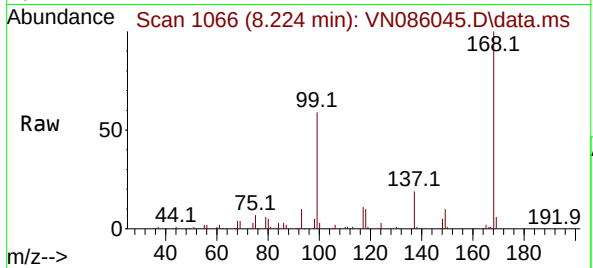
Tgt Ion: 43 Resp: 2143
Ion Ratio Lower Upper
43 100
61 0.0 13.0 19.4#
70 2.6 11.0 16.6#



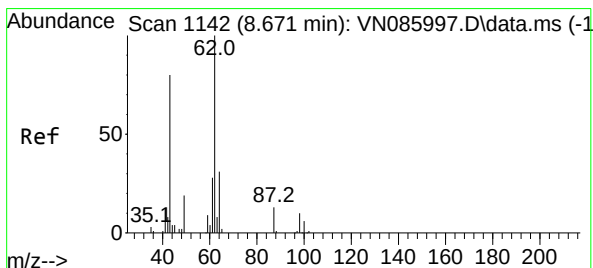
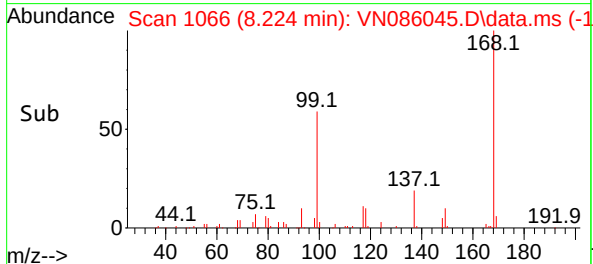
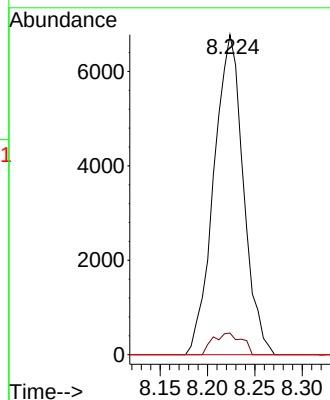


#38
Carbon Tetrachloride
Concen: 4.749 ug/l
RT: 8.224 min Scan# 1106
Delta R.T. -0.135 min
Lab File: VN086045.D
Acq: 21 Mar 2025 17:18

Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#05

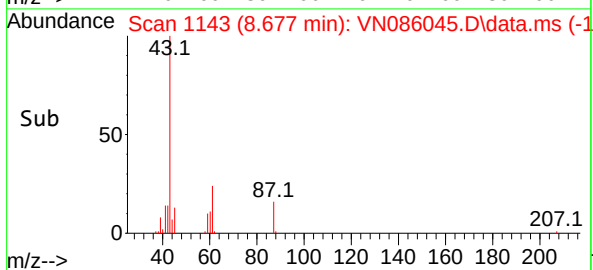
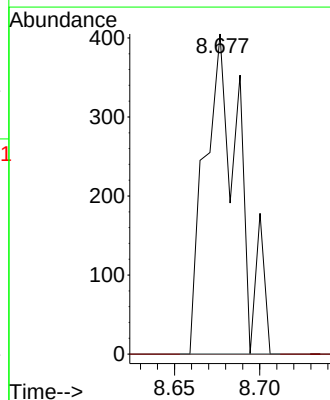
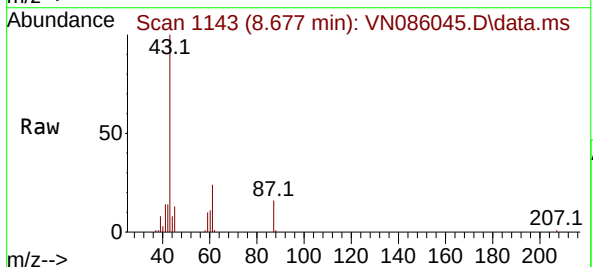


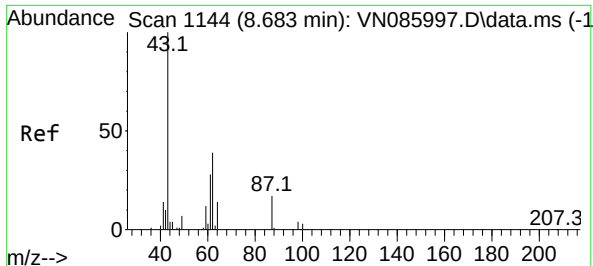
Tgt Ion:117 Resp: 14715
Ion Ratio Lower Upper
117 100
119 6.8 77.0 115.4#
121 0.0 25.6 38.4#



#42
1,2-Dichloroethane
Concen: 0.223 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. 0.006 min
Lab File: VN086045.D
Acq: 21 Mar 2025 17:18

Tgt Ion: 62 Resp: 574
Ion Ratio Lower Upper
62 100
98 0.0 0.0 18.6

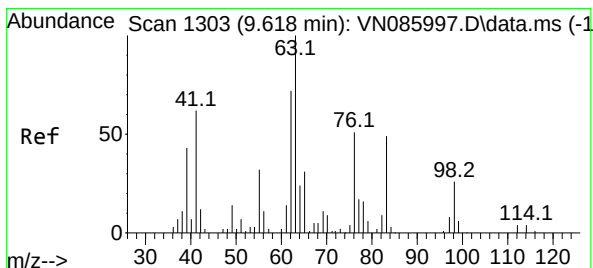
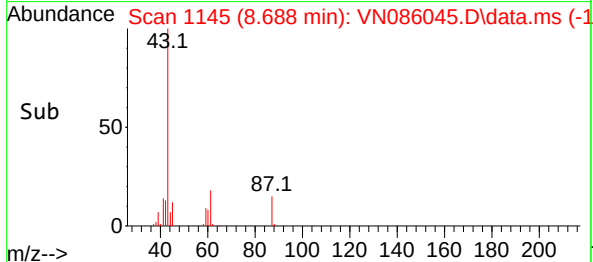
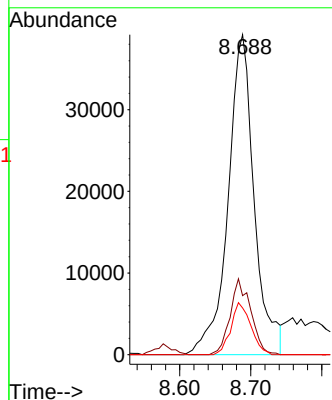
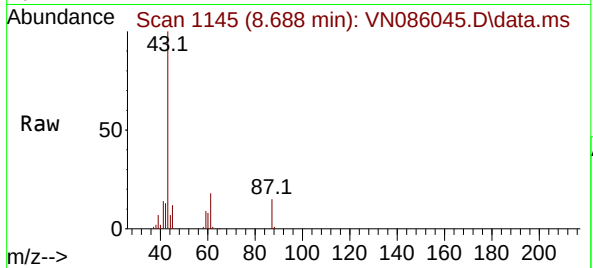




#43
Isopropyl Acetate
Concen: 23.284 ug/l
RT: 8.688 min Scan# 1144
Delta R.T. 0.006 min
Lab File: VN086045.D
Acq: 21 Mar 2025 17:18

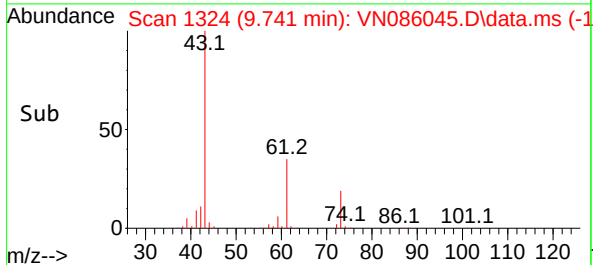
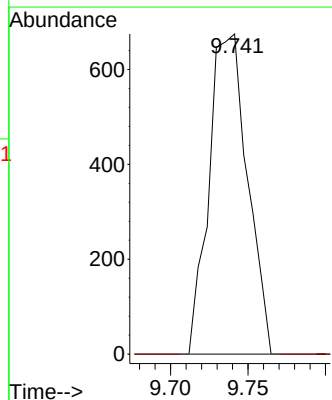
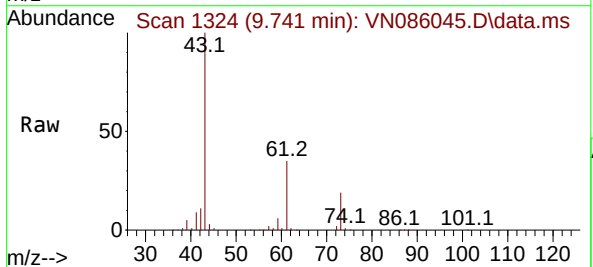
Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#05

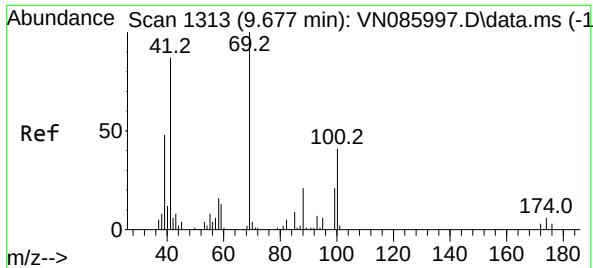
Tgt Ion: 43 Resp: 100309
Ion Ratio Lower Upper
43 100
61 18.8 25.0 37.6#
87 12.4 13.0 19.4#



#45
1,2-Dichloropropane
Concen: 0.692 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.123 min
Lab File: VN086045.D
Acq: 21 Mar 2025 17:18

Tgt Ion: 63 Resp: 1165
Ion Ratio Lower Upper
63 100
65 0.0 24.7 37.1#

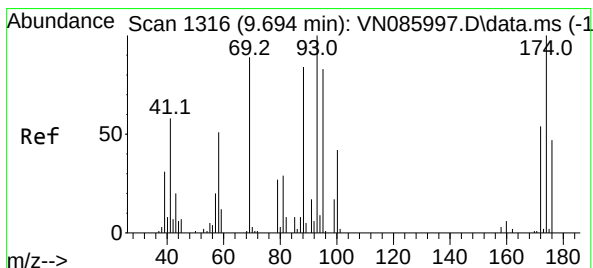
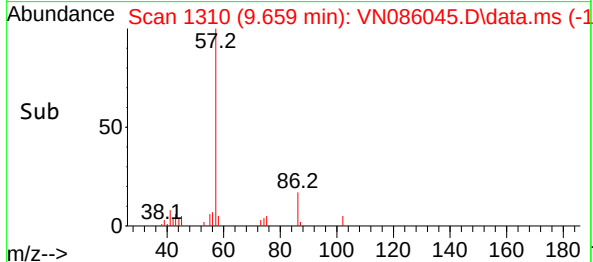
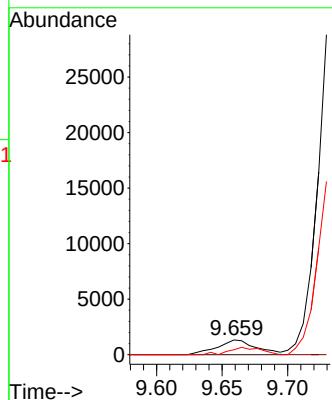
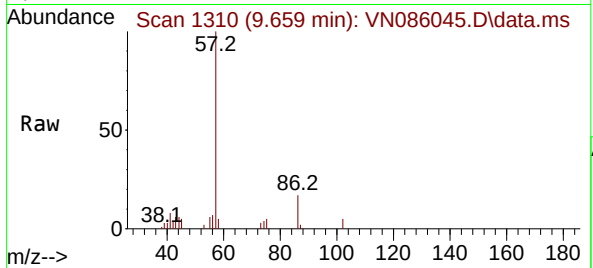




#48
Methyl methacrylate
Concen: 1.930 ug/l
RT: 9.659 min Scan# 11
Delta R.T. -0.018 min
Lab File: VN086045.D
Acq: 21 Mar 2025 17:18

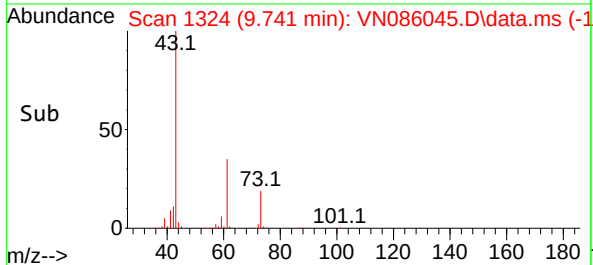
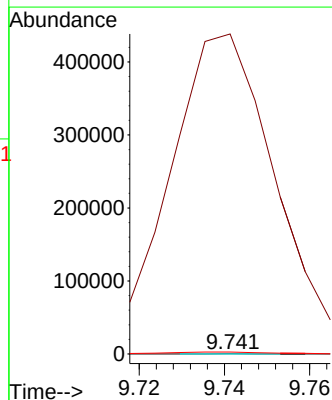
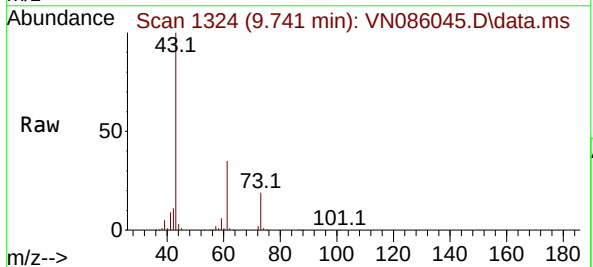
Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#05

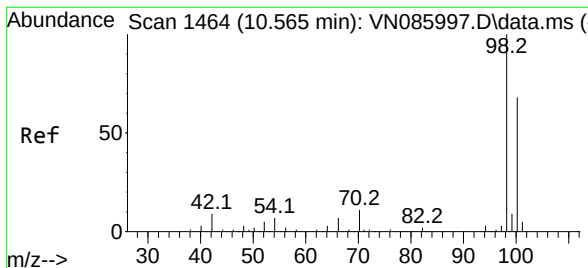
Tgt Ion: 41 Resp: 2744
Ion Ratio Lower Upper
41 100
69 0.0 83.1 124.7#
39 0.0 45.6 68.4#



#49
1,4-Dioxane
Concen: 2.023 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.047 min
Lab File: VN086045.D
Acq: 21 Mar 2025 17:18

Tgt Ion: 88 Resp: 68
Ion Ratio Lower Upper
88 100
43 1142901.5 21.7 32.5#
58 7322.1 50.4 75.6#

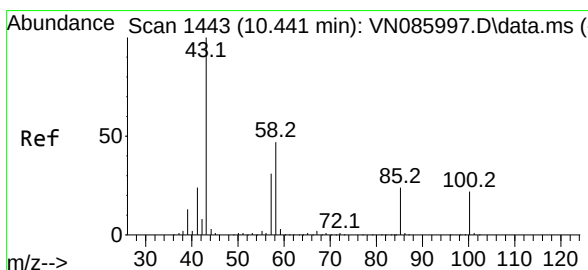
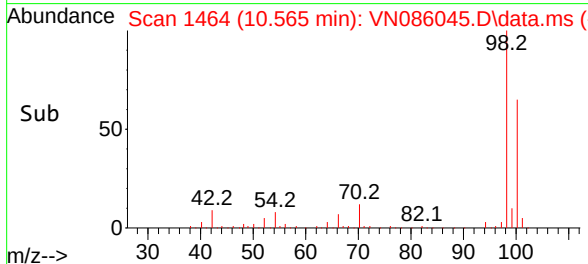
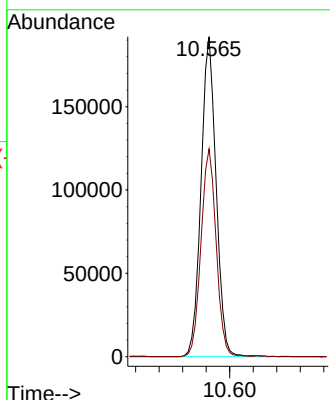
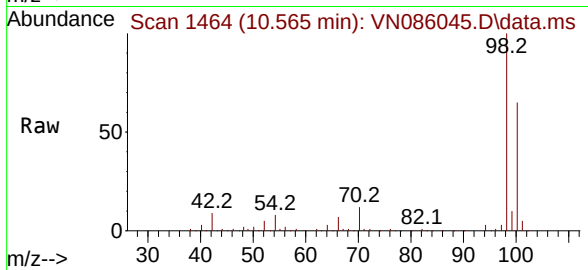




#50
Toluene-d8
Concen: 52.525 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086045.D
Acq: 21 Mar 2025 17:18

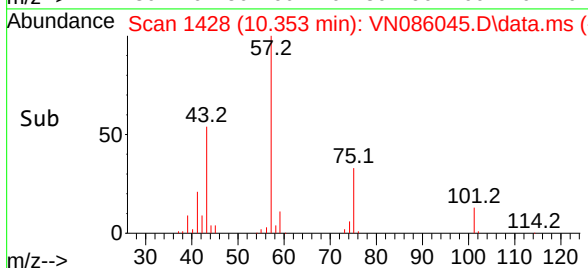
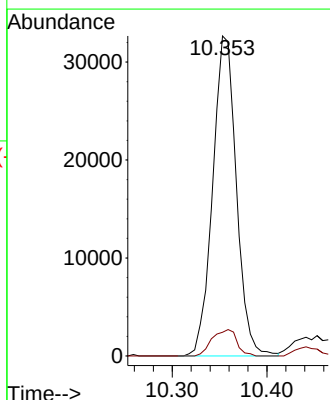
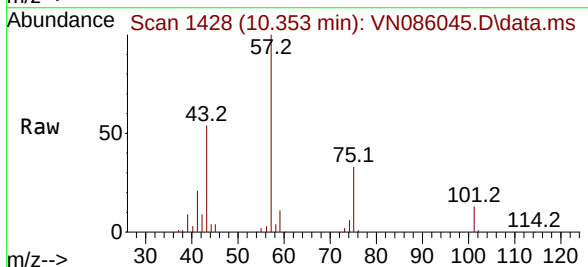
Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#05

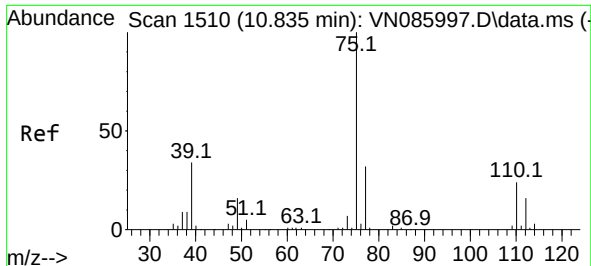
Tgt Ion: 98 Resp: 341159
Ion Ratio Lower Upper
98 100
100 65.3 53.1 79.7



#51
4-Methyl-2-Pentanone
Concen: 29.932 ug/l
RT: 10.353 min Scan# 1428
Delta R.T. -0.088 min
Lab File: VN086045.D
Acq: 21 Mar 2025 17:18

Tgt Ion: 43 Resp: 56869
Ion Ratio Lower Upper
43 100
58 8.6 37.4 56.0#

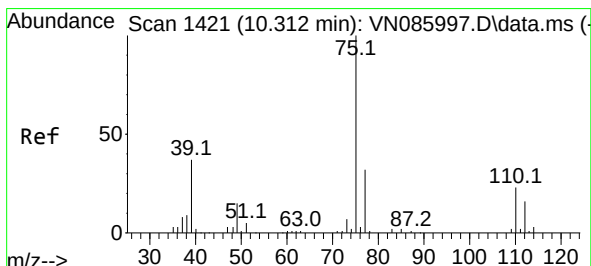
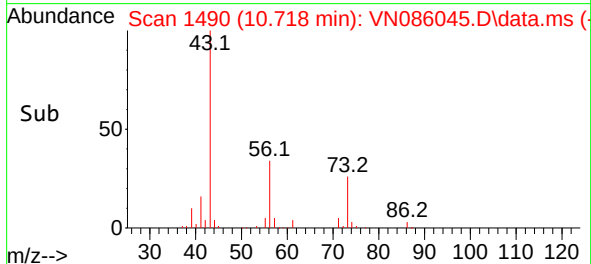
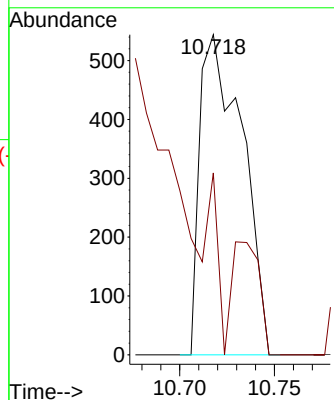
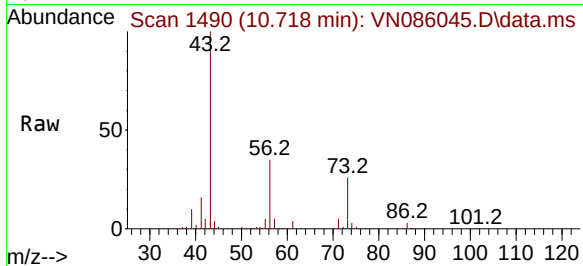




#53
 t-1,3-Dichloropropene
 Concen: 0.316 ug/l
 RT: 10.718 min Scan# 1490
 Delta R.T. -0.118 min
 Lab File: VN086045.D
 Acq: 21 Mar 2025 17:18

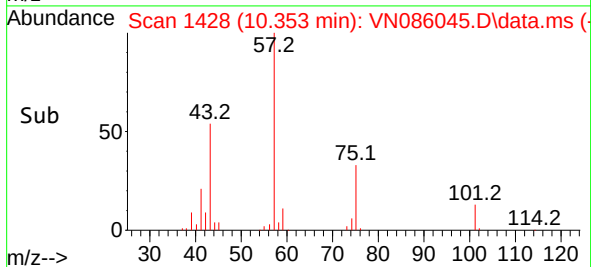
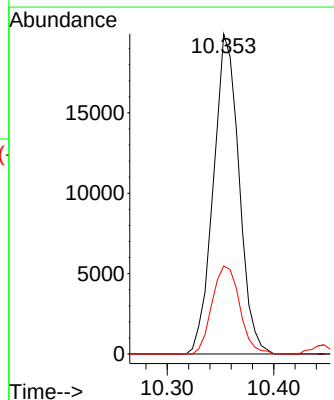
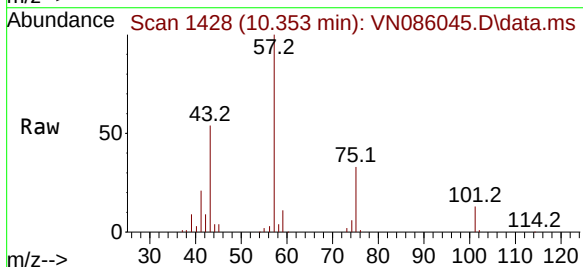
Instrument :
 MSVOA_N
 ClientSampleId :
 PB167234ZHE#05

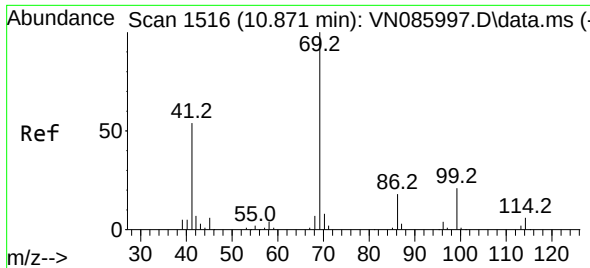
Tgt Ion: 75 Resp: 849
 Ion Ratio Lower Upper
 75 100
 77 56.8 25.3 37.9#



#54
 cis-1,3-Dichloropropene
 Concen: 11.742 ug/l
 RT: 10.353 min Scan# 1428
 Delta R.T. 0.041 min
 Lab File: VN086045.D
 Acq: 21 Mar 2025 17:18

Tgt Ion: 75 Resp: 33271
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.3 37.9#
 39 27.5 29.6 44.4#

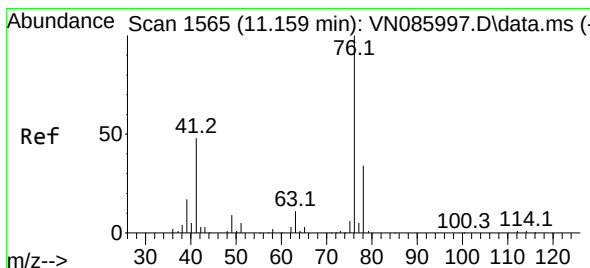
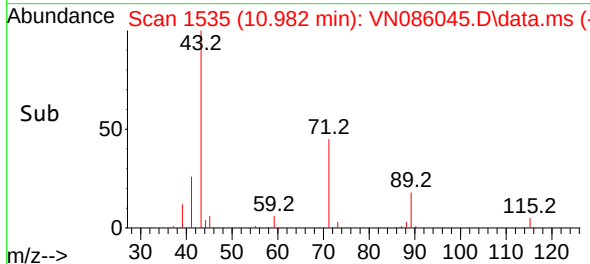
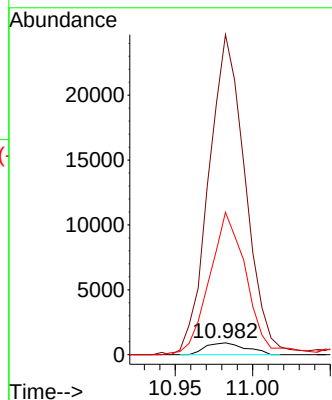
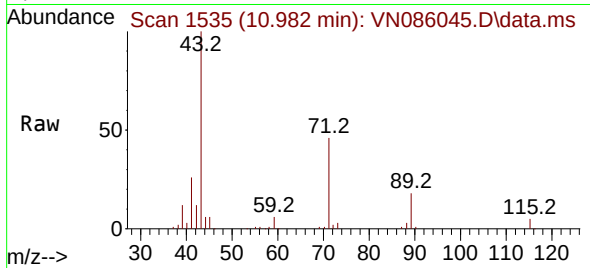




#56
Ethyl methacrylate
Concen: 0.945 ug/l
RT: 10.982 min Scan# 1535
Delta R.T. 0.111 min
Lab File: VN086045.D
Acq: 21 Mar 2025 17:18

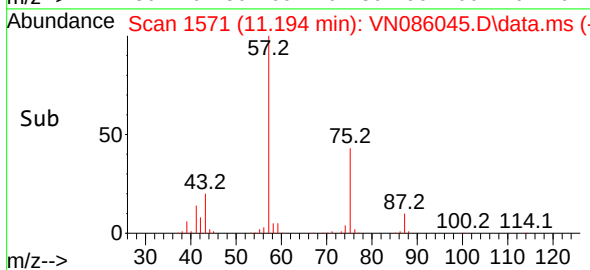
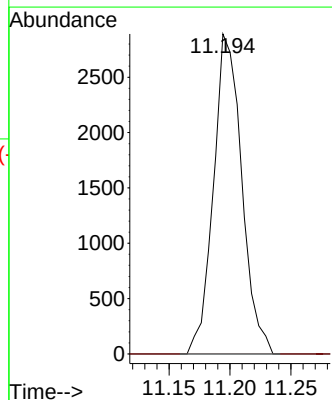
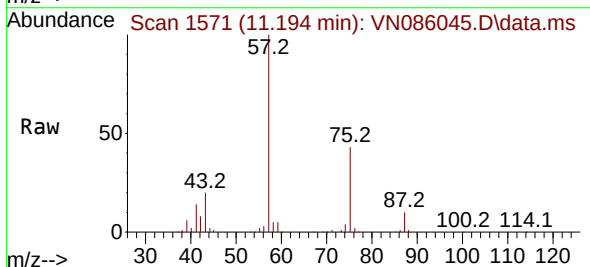
Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#05

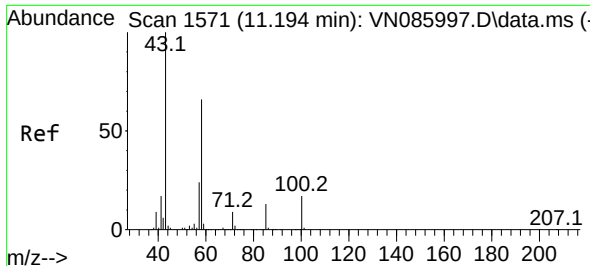
Tgt Ion: 69 Resp: 1658
Ion Ratio Lower Upper
69 100
41 2451.5 41.6 62.4#
39 1108.9 21.8 32.8#



#57
1,3-Dichloropropane
Concen: 1.586 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. 0.035 min
Lab File: VN086045.D
Acq: 21 Mar 2025 17:18

Tgt Ion: 76 Resp: 4668
Ion Ratio Lower Upper
76 100
78 0.0 25.8 38.6#

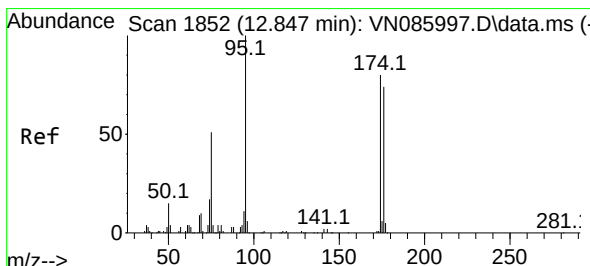
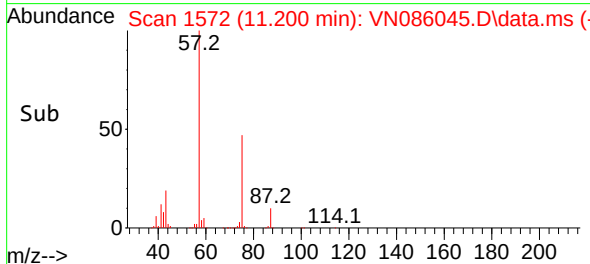
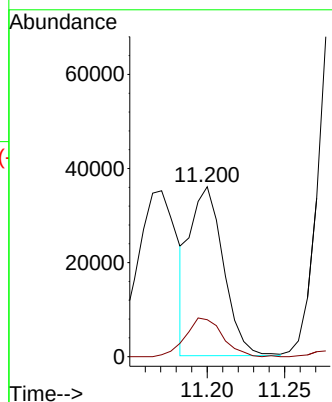
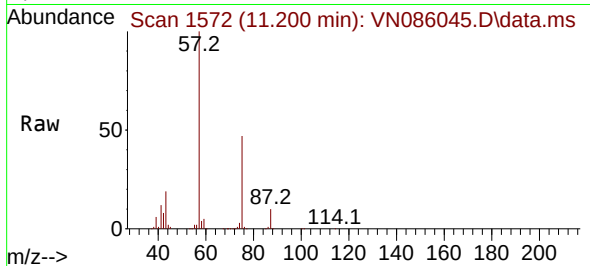




#59
2-Hexanone
Concen: 38.835 ug/l
RT: 11.200 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN086045.D
Acq: 21 Mar 2025 17:18

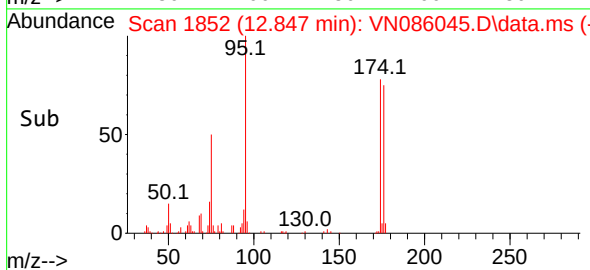
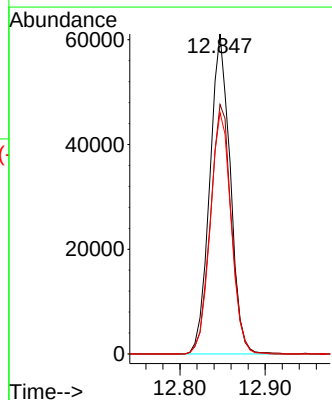
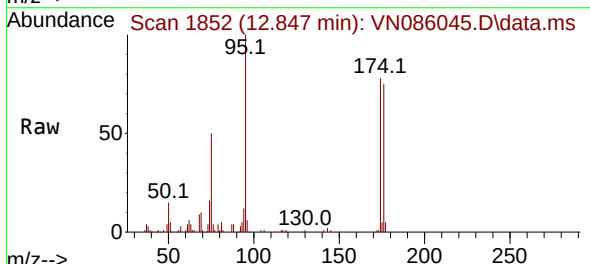
Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#05

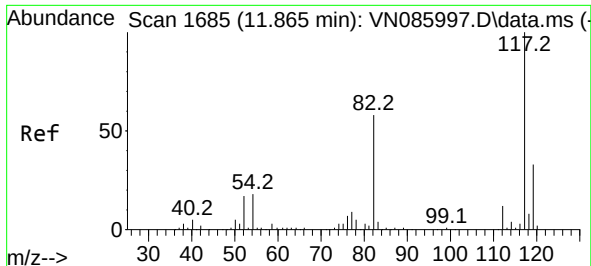
Tgt Ion: 43 Resp: 53751
Ion Ratio Lower Upper
43 100
58 25.5 32.4 97.2#



#62
4-Bromofluorobenzene
Concen: 43.770 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086045.D
Acq: 21 Mar 2025 17:18

Tgt Ion: 95 Resp: 101386
Ion Ratio Lower Upper
95 100
174 80.4 0.0 156.8
176 77.1 0.0 152.2

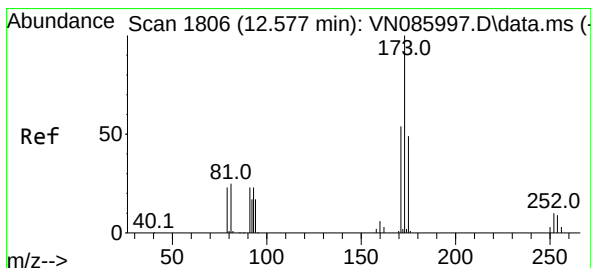
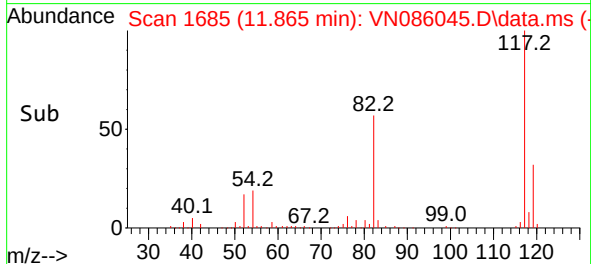
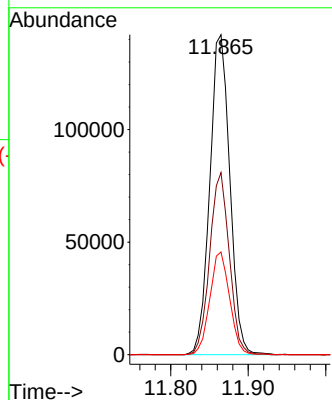
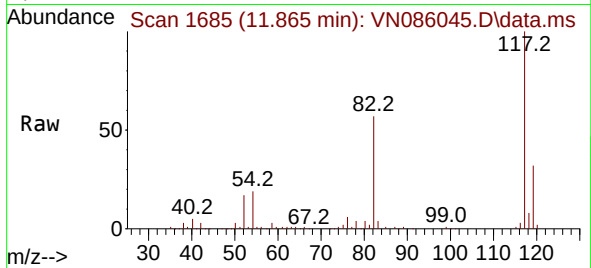




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN086045.D
Acq: 21 Mar 2025 17:18

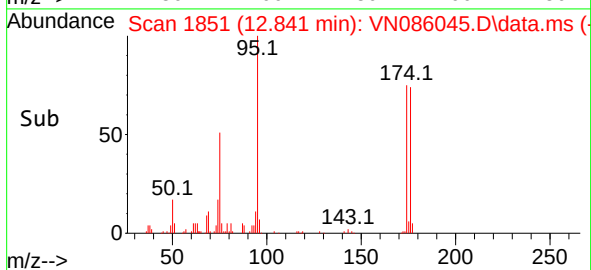
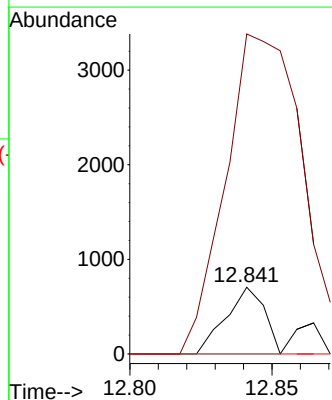
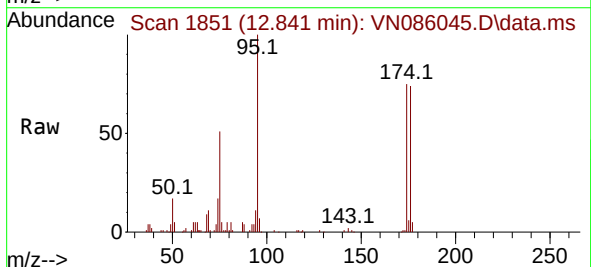
Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#05

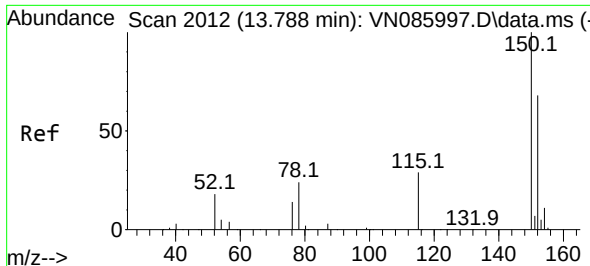
Tgt Ion:117 Resp: 255466
Ion Ratio Lower Upper
117 100
82 56.9 46.7 70.1
119 32.1 26.5 39.7



#71
Bromoform
Concen: 0.368 ug/l
RT: 12.841 min Scan# 1851
Delta R.T. 0.265 min
Lab File: VN086045.D
Acq: 21 Mar 2025 17:18

Tgt Ion:173 Resp: 668
Ion Ratio Lower Upper
173 100
175 714.1 24.3 73.0#
254 0.0 0.0 0.0

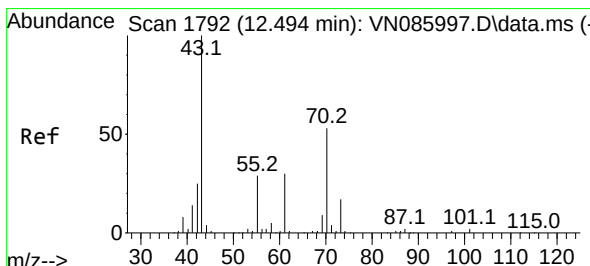
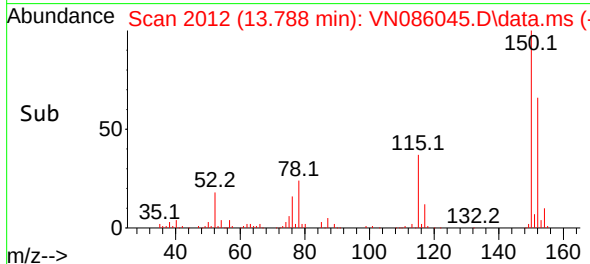
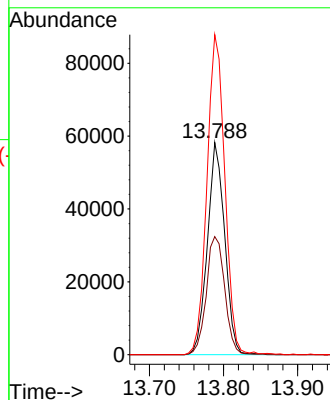
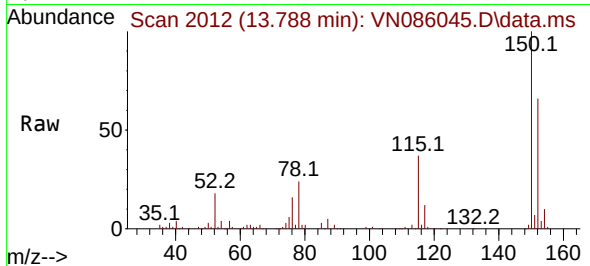




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.788 min Scan# 2012
 Delta R.T. -0.000 min
 Lab File: VN086045.D
 Acq: 21 Mar 2025 17:18

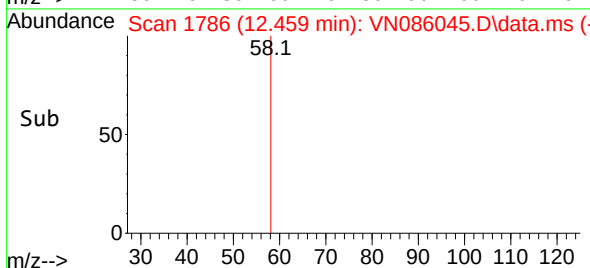
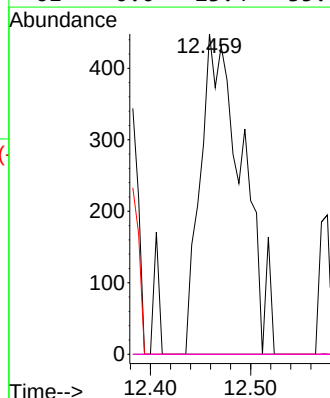
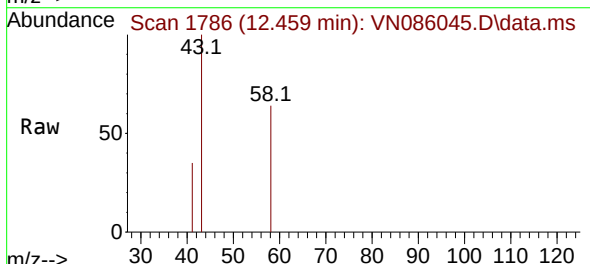
Instrument :
 MSVOA_N
 ClientSampleId :
 PB167234ZHE#05

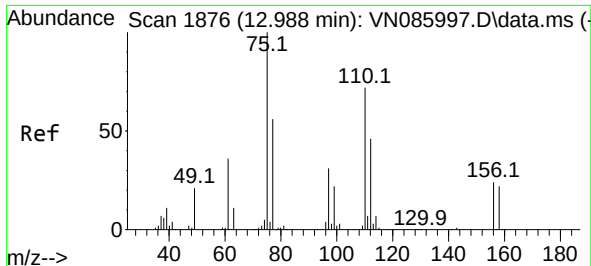
Tgt Ion:152 Resp: 94489
 Ion Ratio Lower Upper
 152 100
 115 59.4 31.1 93.2
 150 155.6 0.0 359.6



#74
 N-ethyl acetate
 Concen: 0.605 ug/l
 RT: 12.459 min Scan# 1786
 Delta R.T. -0.035 min
 Lab File: VN086045.D
 Acq: 21 Mar 2025 17:18

Tgt Ion: 43 Resp: 1306
 Ion Ratio Lower Upper
 43 100
 70 0.0 43.0 64.4#
 55 0.0 23.8 35.8#
 61 0.0 23.4 35.0#

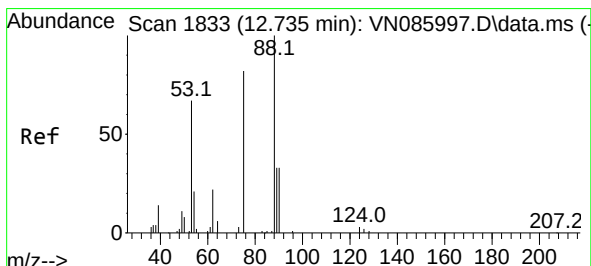
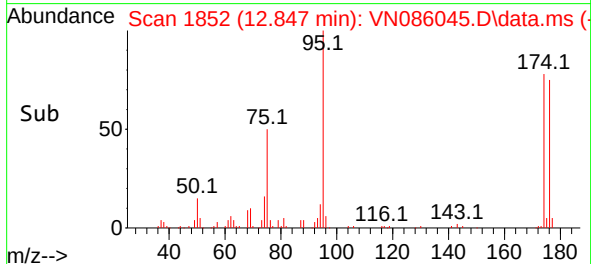
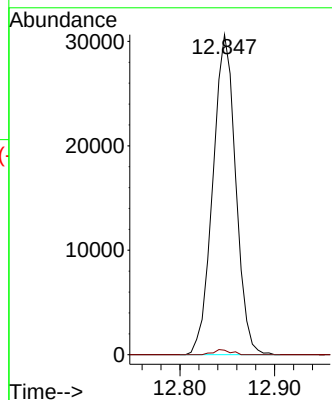
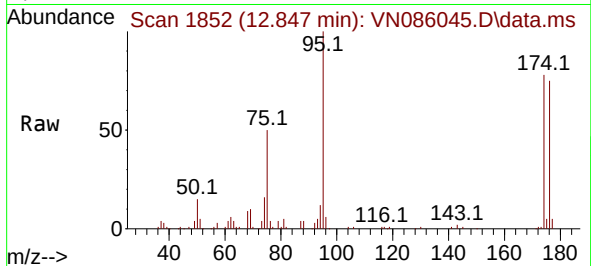




#76
1,2,3-Trichloropropane
Concen: 24.291 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN086045.D
Acq: 21 Mar 2025 17:18

Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#05

Tgt Ion: 75 Resp: 51386
Ion Ratio Lower Upper
75 100
77 1.2 83.7 251.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 64.221 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086045.D
Acq: 21 Mar 2025 17:18

Tgt Ion: 75 Resp: 51386
Ion Ratio Lower Upper
75 100
53 0.0 66.0 99.0#
89 0.0 36.9 55.3#

