

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032125\
 Data File : VN086043.D
 Acq On : 21 Mar 2025 16:29
 Operator : JC\MD
 Sample : PB167234ZHE#03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167234ZHE#03

Quant Time: Mar 21 23:00:07 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

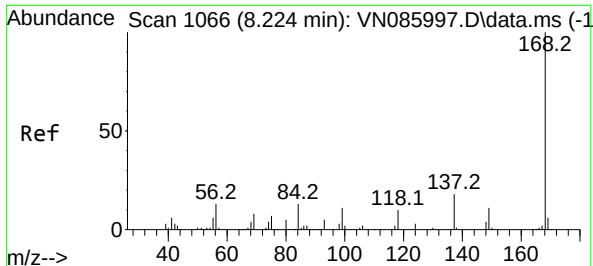
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.224	168	149330	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	272825	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	257981	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	92045	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	113434	55.473	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery	= 110.940%		
35) Dibromofluoromethane	8.165	113	96399	50.622	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery	= 101.240%		
50) Toluene-d8	10.565	98	351782	50.900	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery	= 101.800%		
62) 4-Bromofluorobenzene	12.847	95	101069	41.006	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery	= 82.020%		
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.524	59	682	2.356	ug/l #	73
16) Acetone	4.430	43	24547	39.293	ug/l	99
18) Methyl Acetate	5.030	43	1423	0.921	ug/l #	52
20) Methylene Chloride	5.271	84	10396	5.688	ug/l #	96
25) 2-Butanone	7.489	43	5873	6.515	ug/l	98
29) Tetrahydrofuran	7.859	42	230	0.413	ug/l #	24
30) Chloroform	7.965	83	968	0.293	ug/l #	78
31) Cyclohexane	8.224	56	3144	1.234	ug/l #	13
36) 1,1-Dichloropropene	8.218	75	11882	4.739	ug/l #	49
37) Ethyl Acetate	7.565	43	2136	1.010	ug/l #	72
38) Carbon Tetrachloride	8.224	117	15164	4.599	ug/l #	19
42) 1,2-Dichloroethane	8.700	62	823	0.300	ug/l #	74
43) Isopropyl Acetate	8.688	43	95815	20.902	ug/l #	84
45) 1,2-Dichloropropane	9.735	63	1286	0.718	ug/l #	44
48) Methyl methacrylate	9.659	41	2777	1.836	ug/l #	32
51) 4-Methyl-2-Pentanone	10.441	43	7250	3.586	ug/l #	66
52) Toluene	10.624	92	1004	0.208	ug/l	88
53) t-1,3-Dichloropropene	10.724	75	639	0.224	ug/l #	73
54) cis-1,3-Dichloropropene	10.353	75	34225	11.351	ug/l #	66
56) Ethyl methacrylate	10.977	69	1689	0.913	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	4540	1.450	ug/l #	42
59) 2-Hexanone	11.200	43	60267	40.921	ug/l #	49
71) Bromoform	12.835	173	460	0.251	ug/l #	28
74) N-amyl acetate	12.482	43	492	0.234	ug/l #	41
76) 1,2,3-Trichloropropane	12.847	75	50289	24.404	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	50289	64.519	ug/l #	16

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

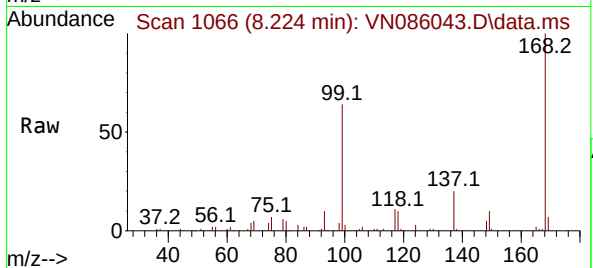
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 19 03:20:56 2025
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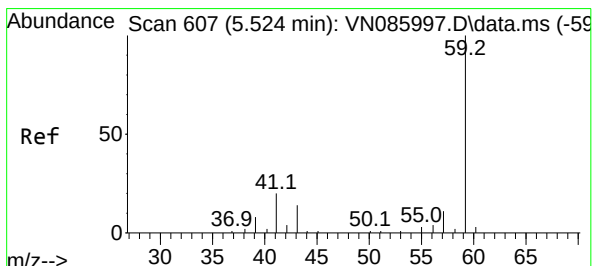
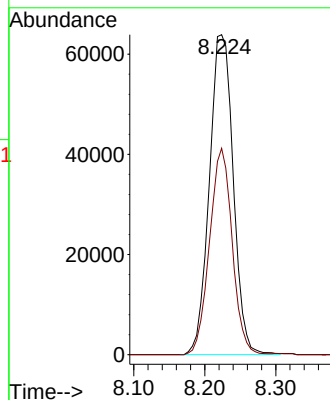
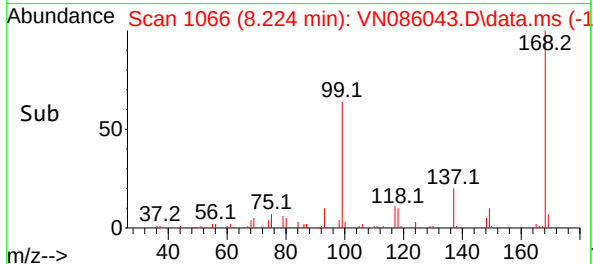


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN086043.D
Acq: 21 Mar 2025 16:29

Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#03

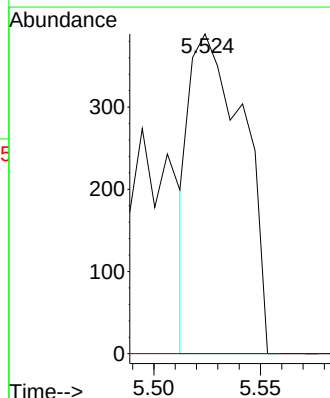
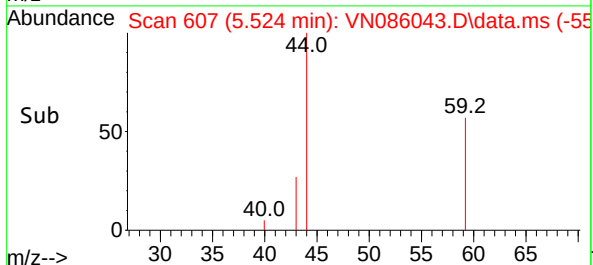
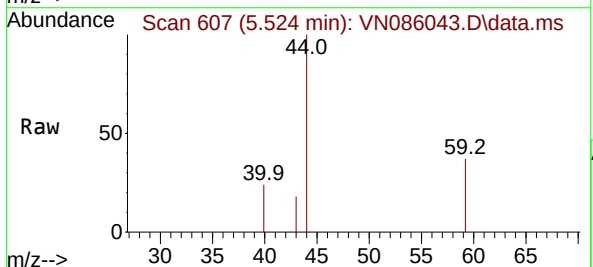


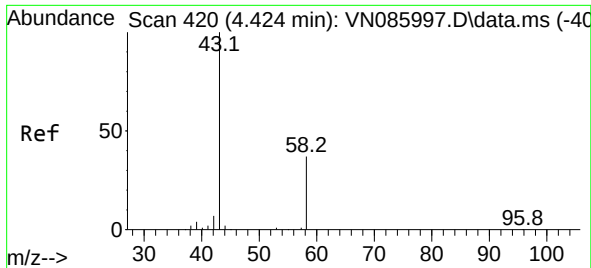
Tgt Ion:168 Resp: 149330
Ion Ratio Lower Upper
168 100
99 64.5 49.4 74.2



#11
Tert butyl alcohol
Concen: 2.356 ug/l
RT: 5.524 min Scan# 607
Delta R.T. -0.000 min
Lab File: VN086043.D
Acq: 21 Mar 2025 16:29

Tgt Ion: 59 Resp: 682
Ion Ratio Lower Upper
59 100
57 0.0 7.9 11.9#





#16

Acetone

Concen: 39.293 ug/l

RT: 4.430 min Scan# 41

Delta R.T. 0.006 min

Lab File: VN086043.D

Acq: 21 Mar 2025 16:29

Instrument :

MSVOA_N

ClientSampleId :

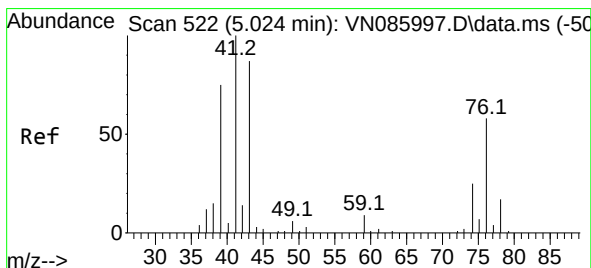
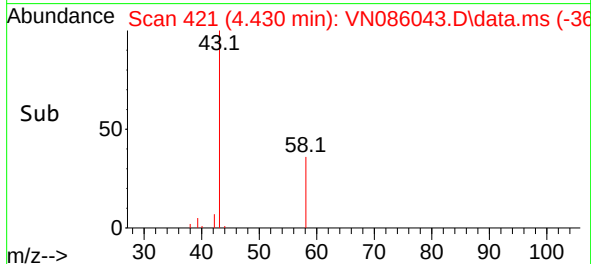
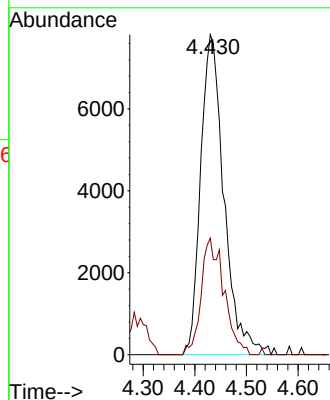
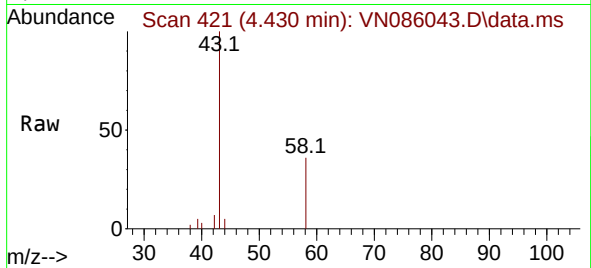
PB167234ZHE#03

Tgt Ion: 43 Resp: 24547

Ion Ratio Lower Upper

43 100

58 36.4 29.4 44.2



#18

Methyl Acetate

Concen: 0.921 ug/l

RT: 5.030 min Scan# 523

Delta R.T. 0.006 min

Lab File: VN086043.D

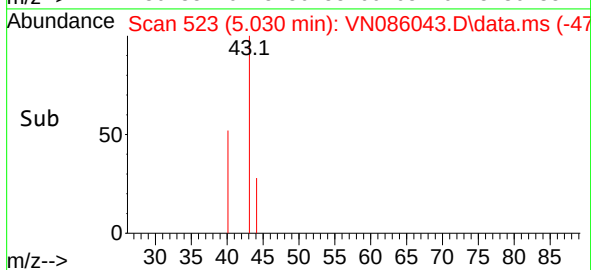
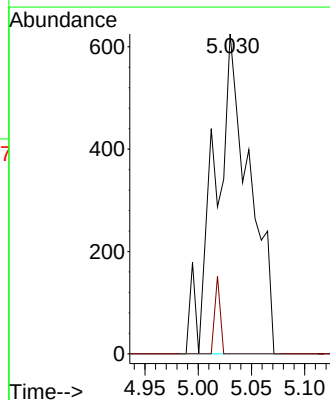
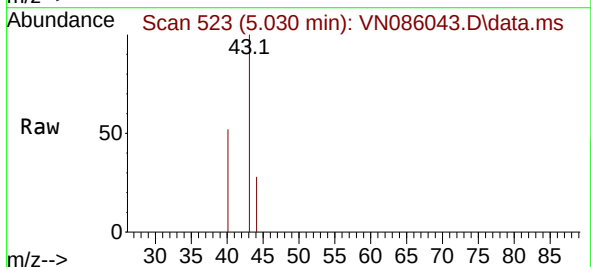
Acq: 21 Mar 2025 16:29

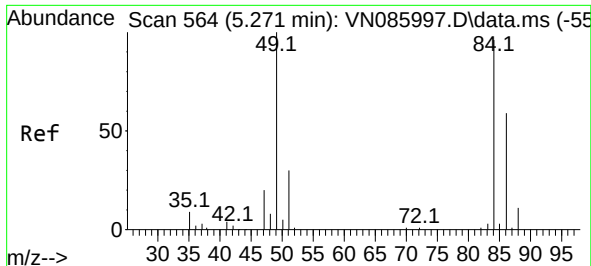
Tgt Ion: 43 Resp: 1423

Ion Ratio Lower Upper

43 100

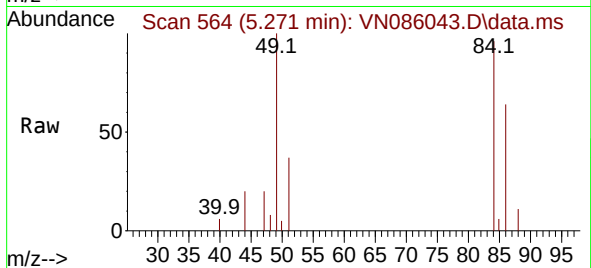
74 3.8 23.9 35.9#



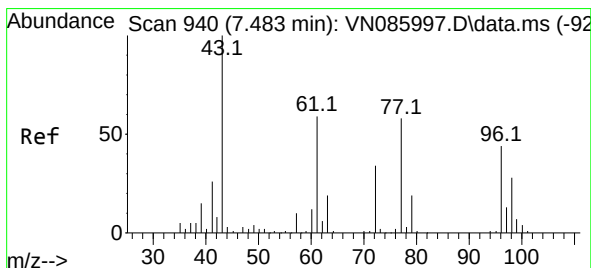
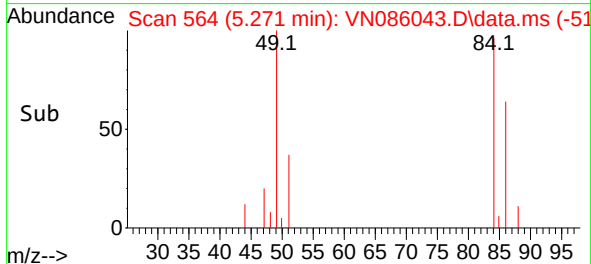
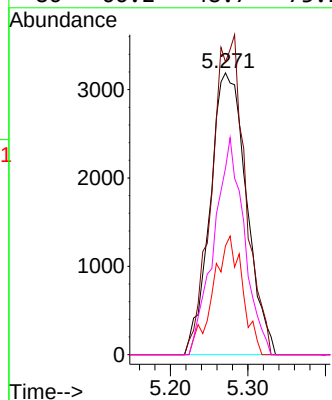


#20
Methylene Chloride
Concen: 5.688 ug/l
RT: 5.271 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN086043.D
Acq: 21 Mar 2025 16:29

Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#03

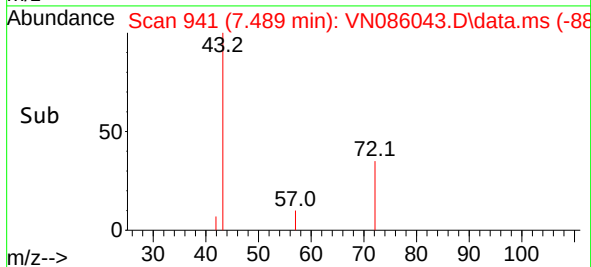
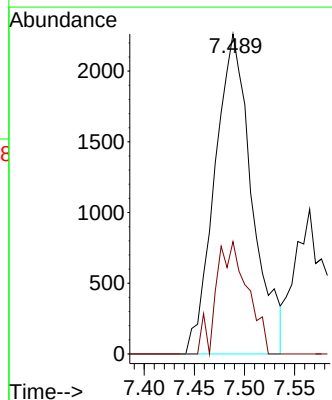
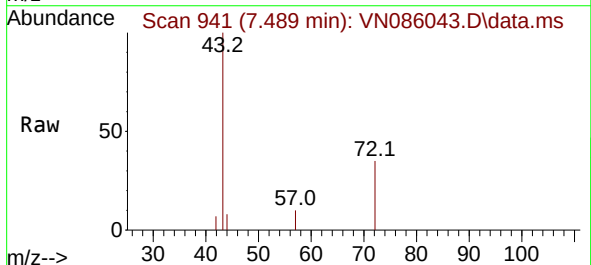


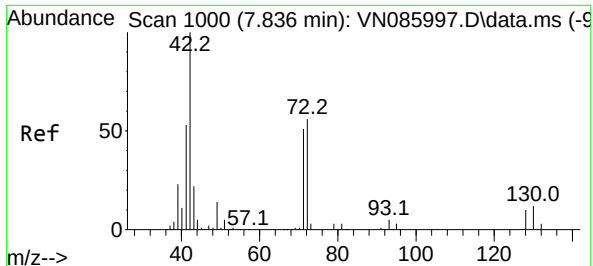
Tgt Ion: 84	Resp: 10396
Ion Ratio	Lower Upper
84 100	
49 103.9	83.3 124.9
51 38.6	24.8 37.2#
86 66.2	48.7 73.1



#25
2-Butanone
Concen: 6.515 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN086043.D
Acq: 21 Mar 2025 16:29

Tgt Ion: 43	Resp: 5873
Ion Ratio	Lower Upper
43 100	
72 35.1	27.4 41.0





#29

Tetrahydrofuran

Concen: 0.413 ug/l

RT: 7.859 min Scan# 1004

Delta R.T. 0.023 min

Lab File: VN086043.D

Acq: 21 Mar 2025 16:29

Instrument :

MSVOA_N

ClientSampleId :

PB167234ZHE#03

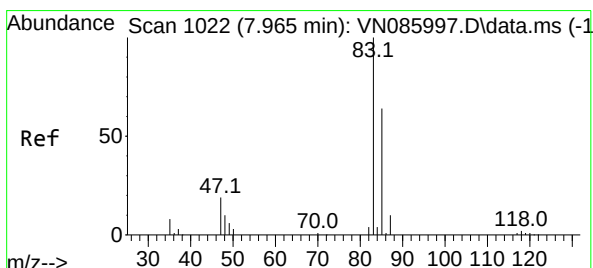
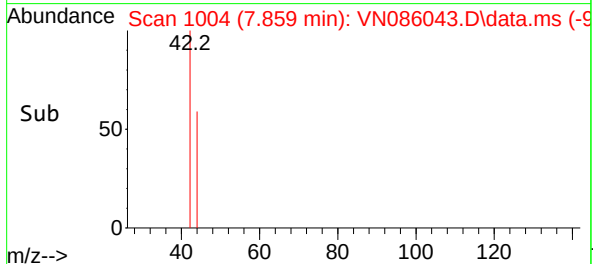
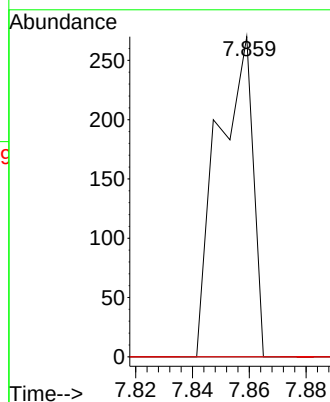
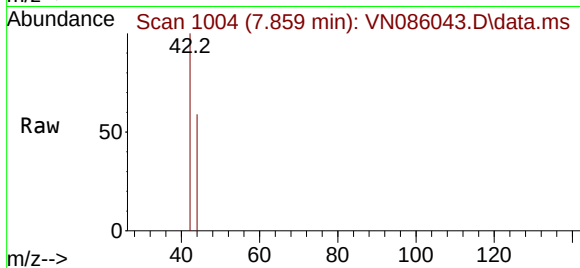
Tgt Ion: 42 Resp: 230

Ion Ratio Lower Upper

42 100

72 0.0 45.0 67.4#

71 0.0 41.9 62.9#



#30

Chloroform

Concen: 0.293 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. -0.000 min

Lab File: VN086043.D

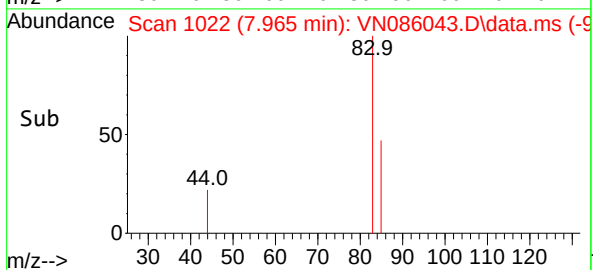
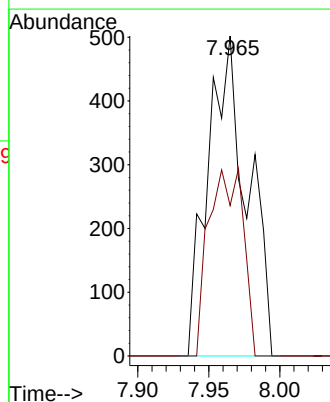
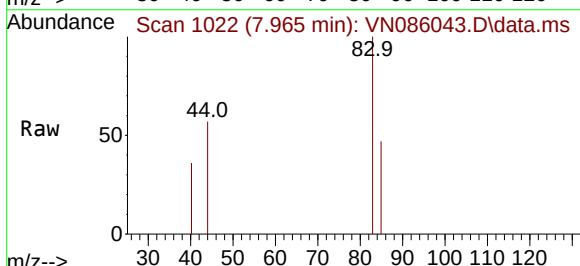
Acq: 21 Mar 2025 16:29

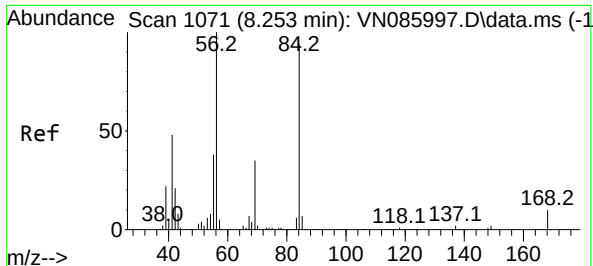
Tgt Ion: 83 Resp: 968

Ion Ratio Lower Upper

83 100

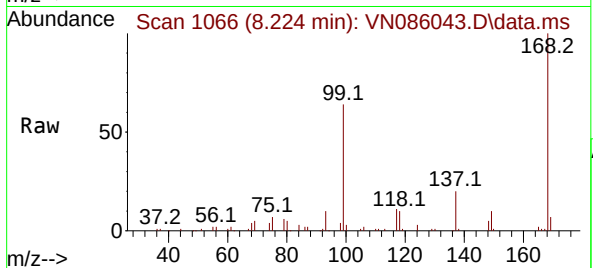
85 47.0 51.5 77.3#



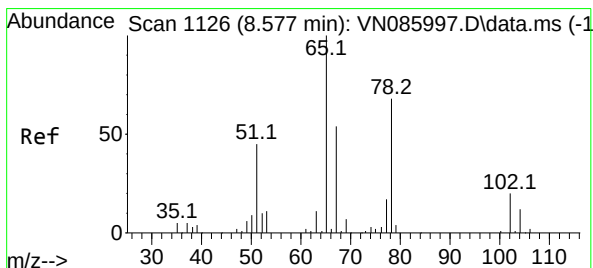
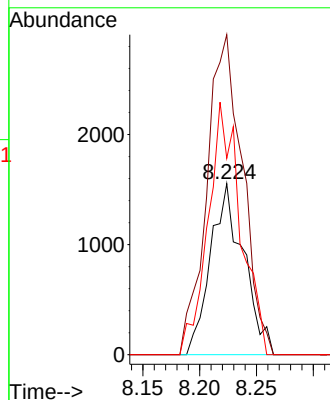
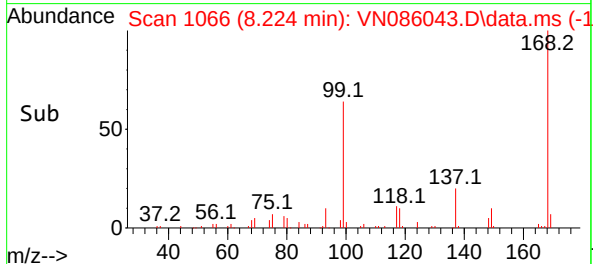


#31
Cyclohexane
Concen: 1.234 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.030 min
Lab File: VN086043.D
Acq: 21 Mar 2025 16:29

Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#03

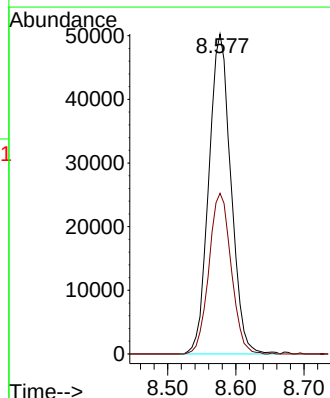
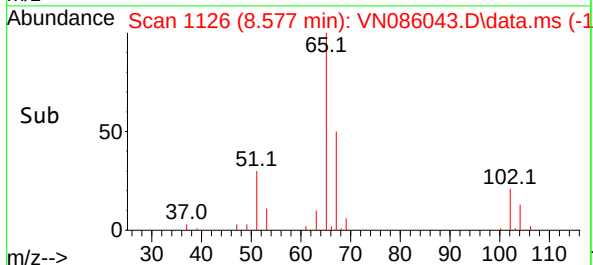
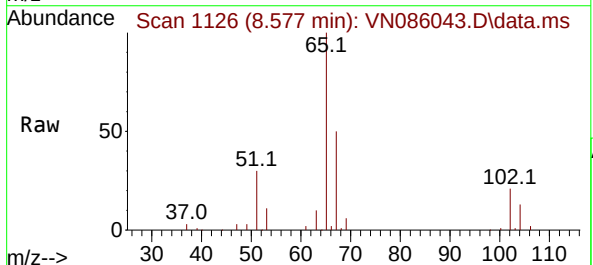


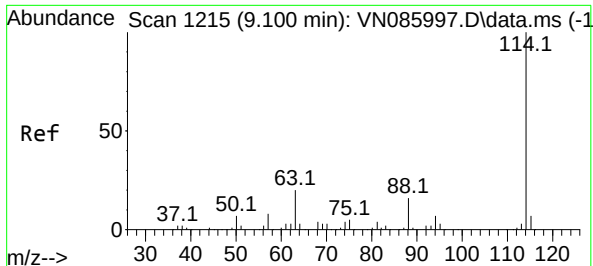
Tgt Ion: 56 Resp: 3144
Ion Ratio Lower Upper
56 100
69 187.1 28.0 42.0#
84 114.8 75.0 112.6#



#33
1,2-Dichloroethane-d4
Concen: 55.473 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN086043.D
Acq: 21 Mar 2025 16:29

Tgt Ion: 65 Resp: 113434
Ion Ratio Lower Upper
65 100
67 50.4 0.0 102.2

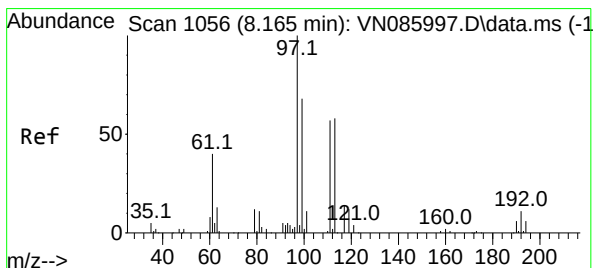
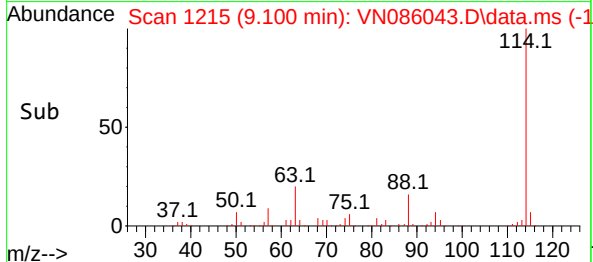
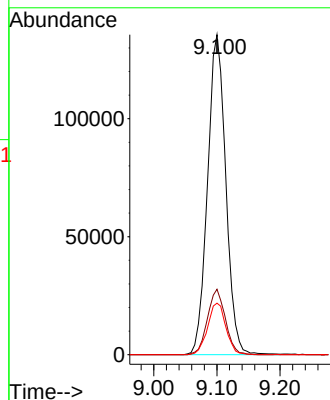
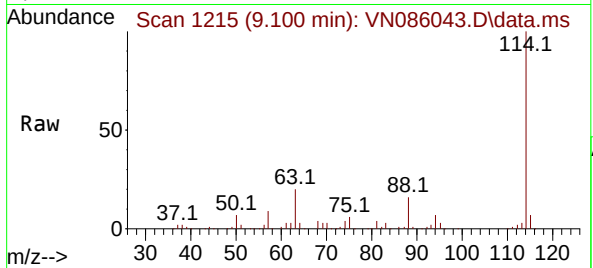




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086043.D
Acq: 21 Mar 2025 16:29

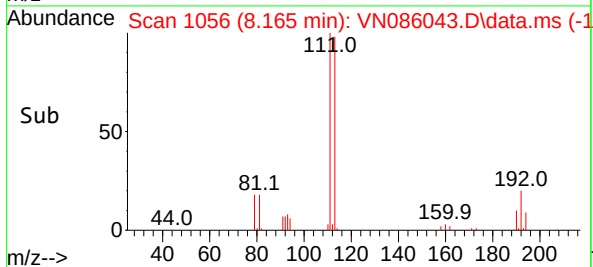
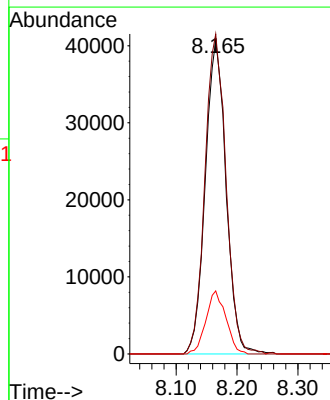
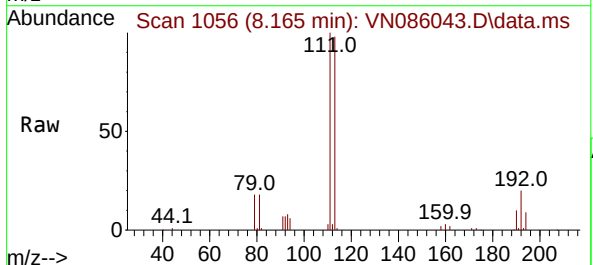
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MSVOA_N
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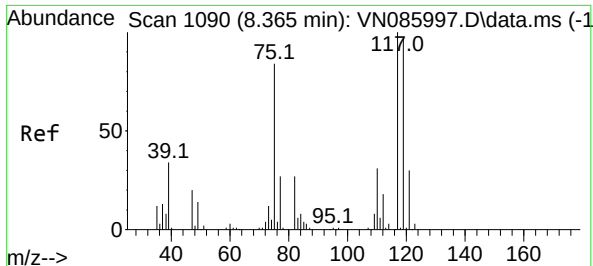
Tgt Ion:114 Resp: 272825
Ion Ratio Lower Upper
114 100
63 20.4 0.0 39.6
88 16.1 0.0 32.6



#35
Dibromofluoromethane
Concen: 50.622 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN086043.D
Acq: 21 Mar 2025 16:29

Tgt Ion:113 Resp: 96399
Ion Ratio Lower Upper
113 100
111 103.4 81.8 122.8
192 19.4 15.9 23.9





#36

1,1-Dichloropropene

Concen: 4.739 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.147 min

Lab File: VN086043.D

Acq: 21 Mar 2025 16:29

Instrument :

MSVOA_N

ClientSampleId :

PB167234ZHE#03

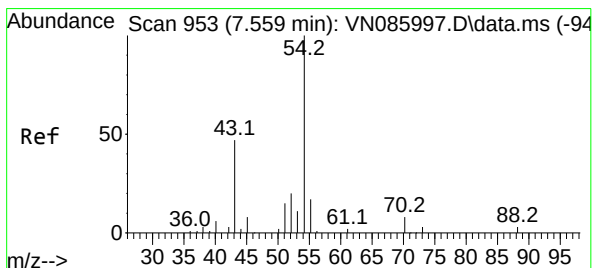
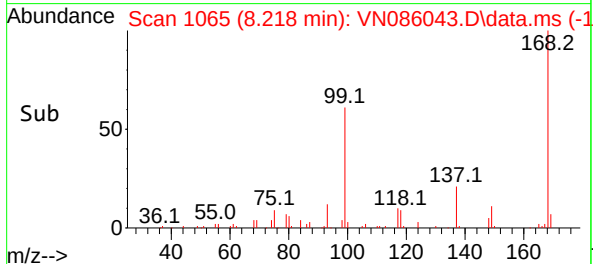
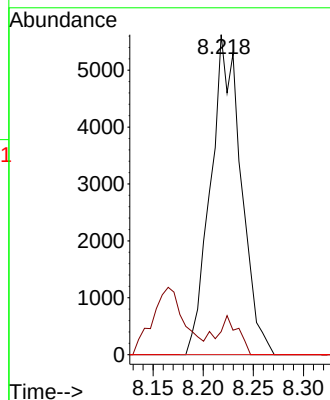
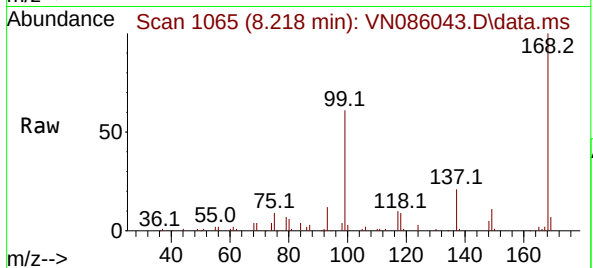
Tgt Ion: 75 Resp: 11882

Ion Ratio Lower Upper

75 100

110 8.7 17.8 53.3#

77 0.0 25.0 37.4#



#37

Ethyl Acetate

Concen: 1.010 ug/l

RT: 7.565 min Scan# 954

Delta R.T. 0.006 min

Lab File: VN086043.D

Acq: 21 Mar 2025 16:29

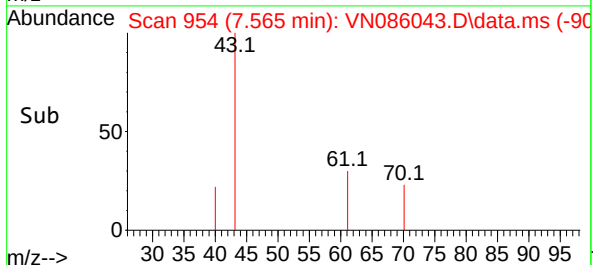
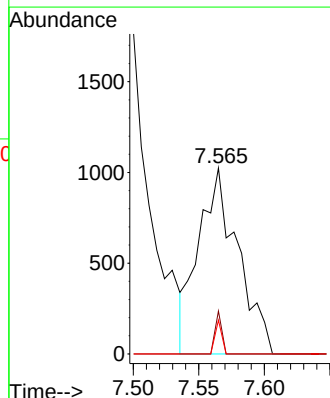
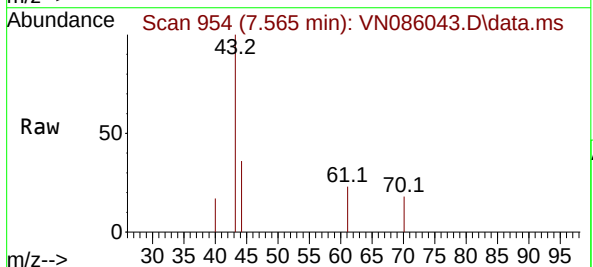
Tgt Ion: 43 Resp: 2136

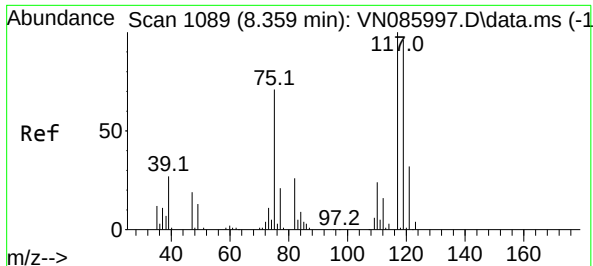
Ion Ratio Lower Upper

43 100

61 3.9 13.0 19.4#

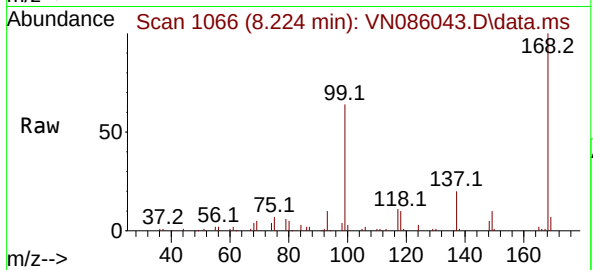
70 3.1 11.0 16.6#



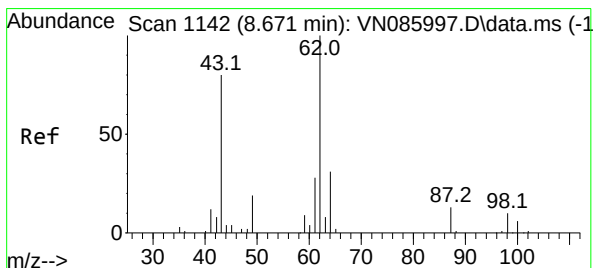
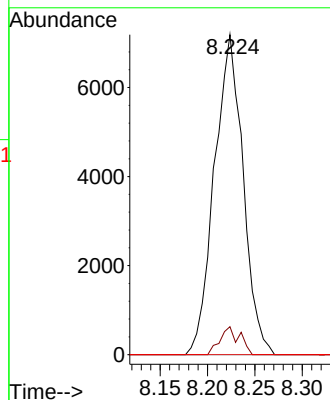
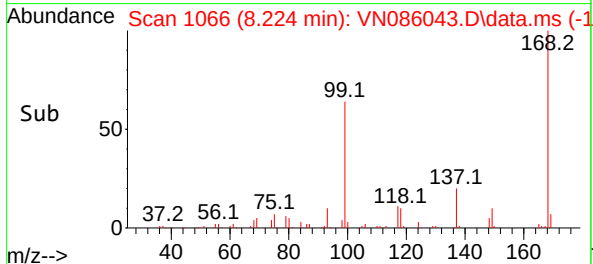


#38
Carbon Tetrachloride
Concen: 4.599 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.135 min
Lab File: VN086043.D
Acq: 21 Mar 2025 16:29

Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#03

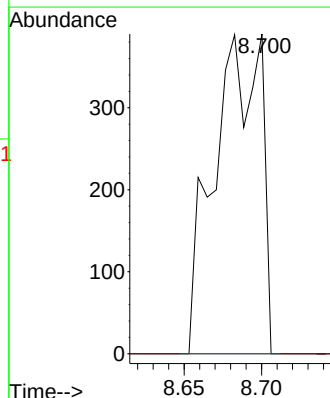
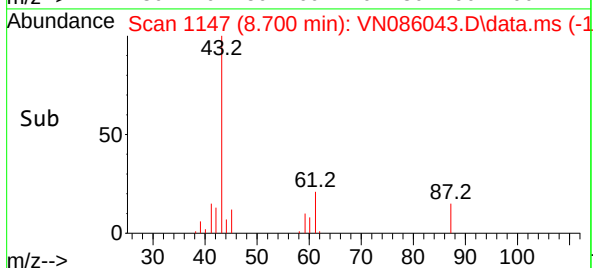
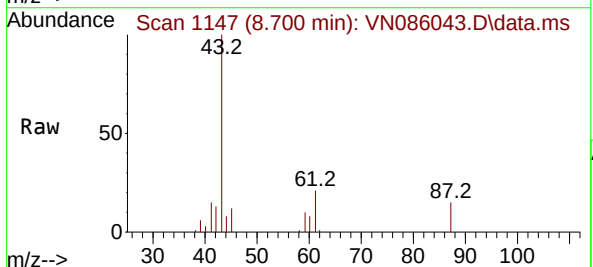


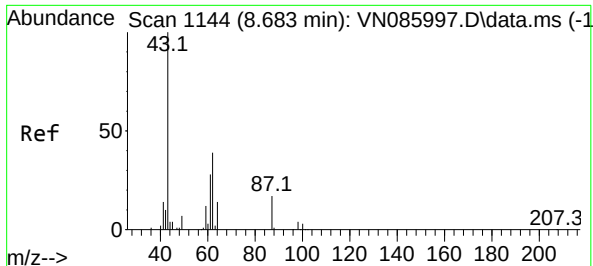
Tgt Ion:117 Resp: 15164
Ion Ratio Lower Upper
117 100
119 8.8 77.0 115.4#
121 0.0 25.6 38.4#



#42
1,2-Dichloroethane
Concen: 0.300 ug/l
RT: 8.700 min Scan# 1147
Delta R.T. 0.029 min
Lab File: VN086043.D
Acq: 21 Mar 2025 16:29

Tgt Ion: 62 Resp: 823
Ion Ratio Lower Upper
62 100
98 0.0 0.0 18.6

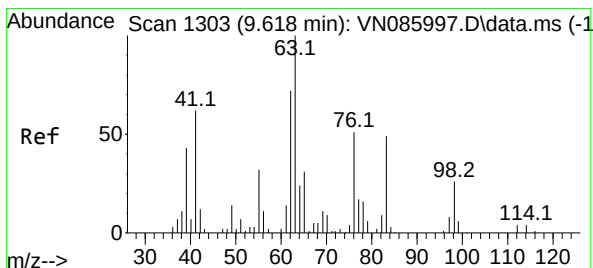
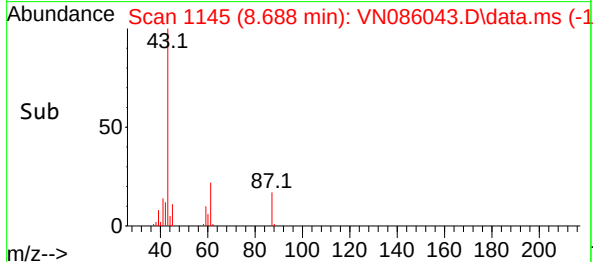
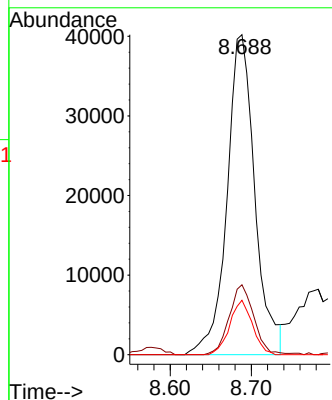
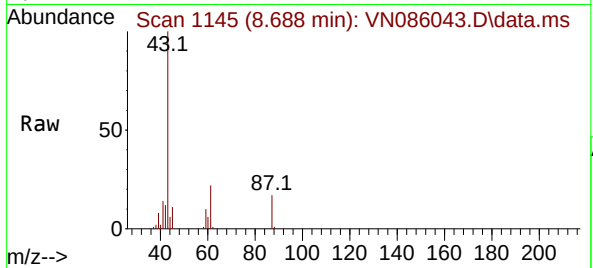




#43
Isopropyl Acetate
Concen: 20.902 ug/l
RT: 8.688 min Scan# 1144
Delta R.T. 0.006 min
Lab File: VN086043.D
Acq: 21 Mar 2025 16:29

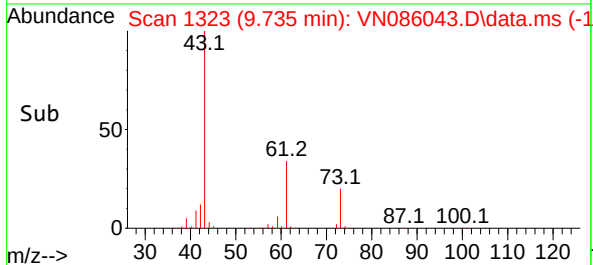
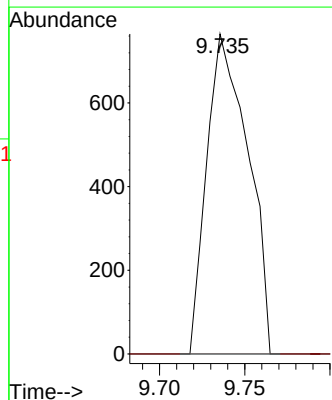
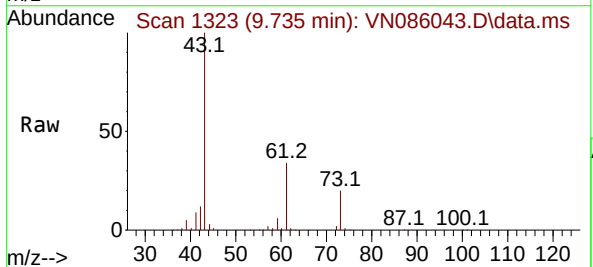
Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#03

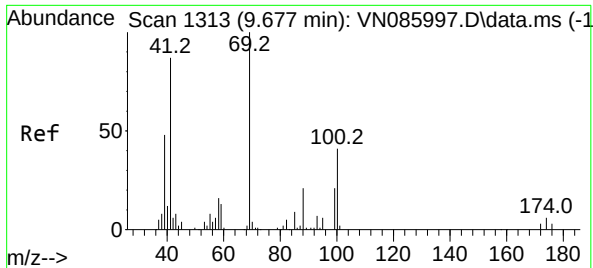
Tgt Ion: 43 Resp: 95815
Ion Ratio Lower Upper
43 100
61 19.4 25.0 37.6#
87 13.9 13.0 19.4



#45
1,2-Dichloropropane
Concen: 0.718 ug/l
RT: 9.735 min Scan# 1323
Delta R.T. 0.118 min
Lab File: VN086043.D
Acq: 21 Mar 2025 16:29

Tgt Ion: 63 Resp: 1286
Ion Ratio Lower Upper
63 100
65 0.0 24.7 37.1#

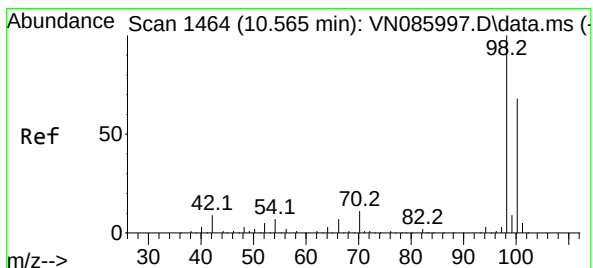
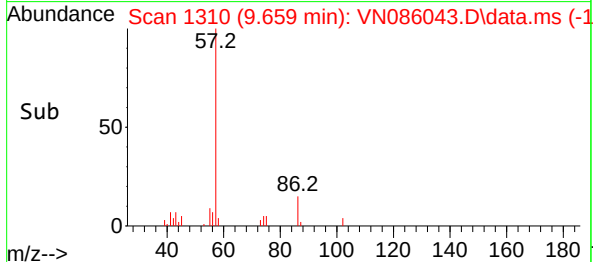
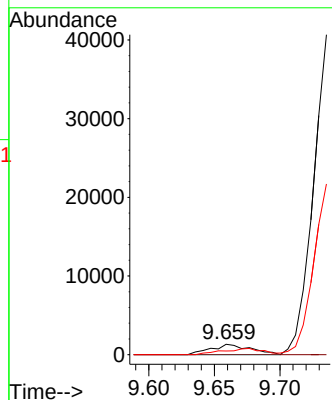
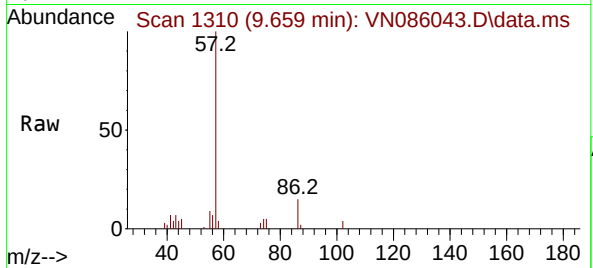




#48
Methyl methacrylate
Concen: 1.836 ug/l
RT: 9.659 min Scan# 11
Delta R.T. -0.018 min
Lab File: VN086043.D
Acq: 21 Mar 2025 16:29

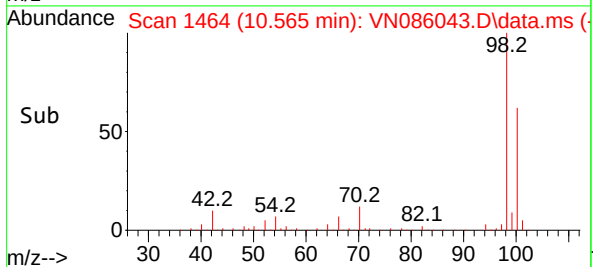
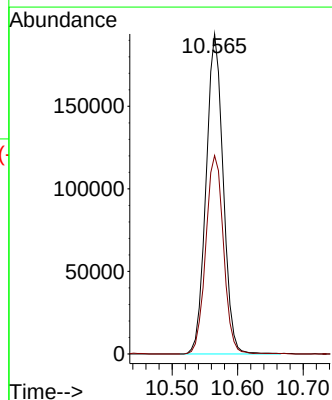
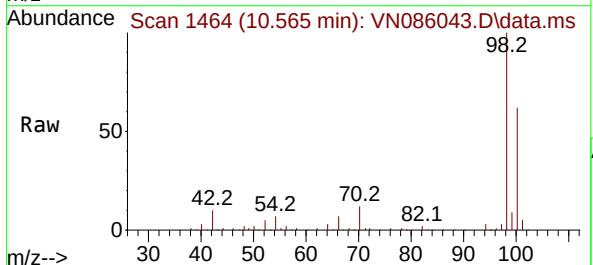
Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#03

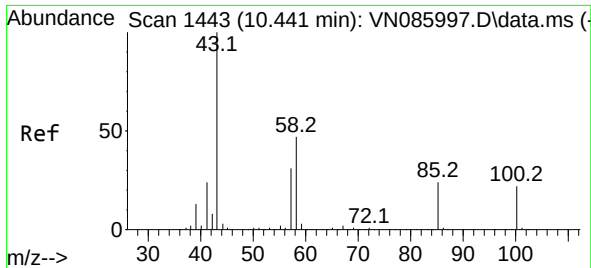
Tgt Ion: 41 Resp: 2777
Ion Ratio Lower Upper
41 100
69 0.0 83.1 124.7#
39 62.5 45.6 68.4



#50
Toluene-d8
Concen: 50.900 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086043.D
Acq: 21 Mar 2025 16:29

Tgt Ion: 98 Resp: 351782
Ion Ratio Lower Upper
98 100
100 64.3 53.1 79.7

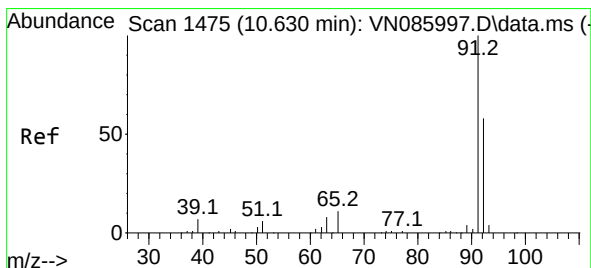
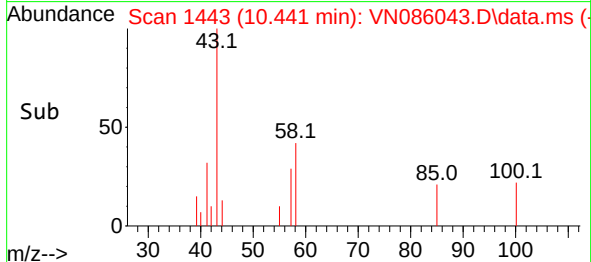
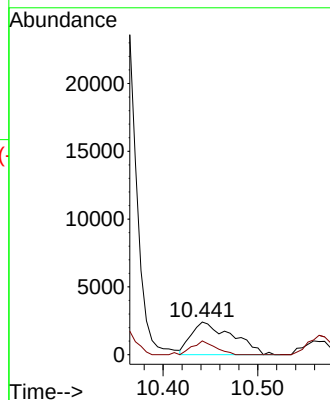
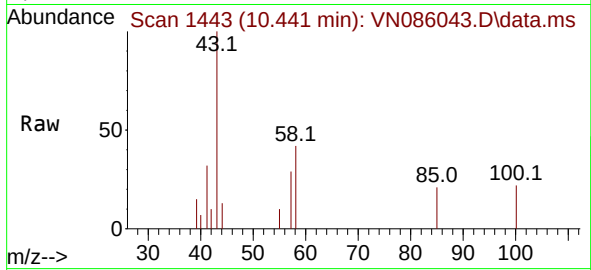




#51
4-Methyl-2-Pentanone
Concen: 3.586 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086043.D
Acq: 21 Mar 2025 16:29

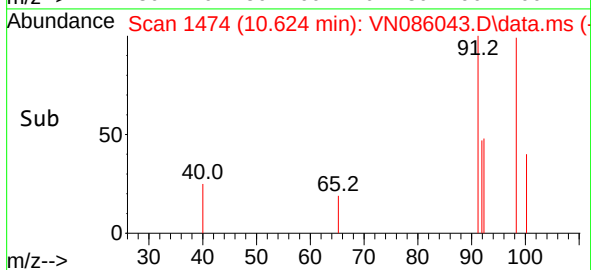
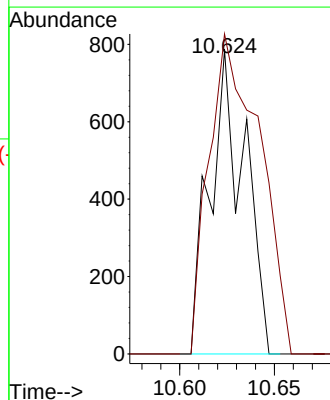
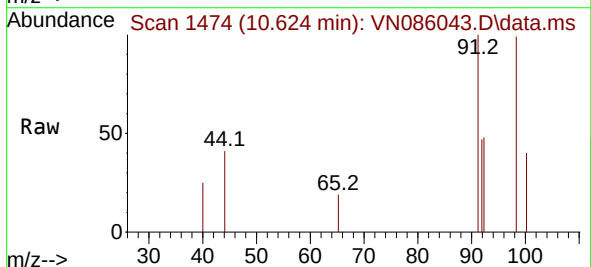
Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#03

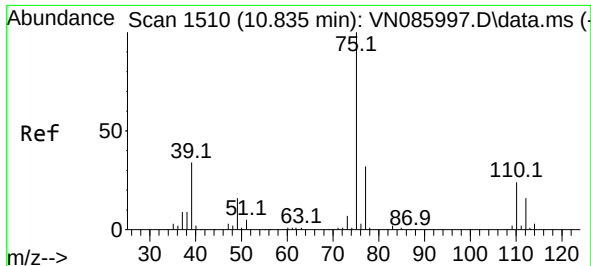
Tgt Ion: 43 Resp: 7250
Ion Ratio Lower Upper
43 100
58 24.2 37.4 56.0#



#52
Toluene
Concen: 0.208 ug/l
RT: 10.624 min Scan# 1474
Delta R.T. -0.006 min
Lab File: VN086043.D
Acq: 21 Mar 2025 16:29

Tgt Ion: 92 Resp: 1004
Ion Ratio Lower Upper
92 100
91 153.8 136.2 204.4

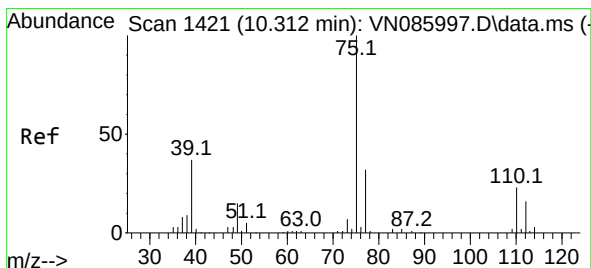
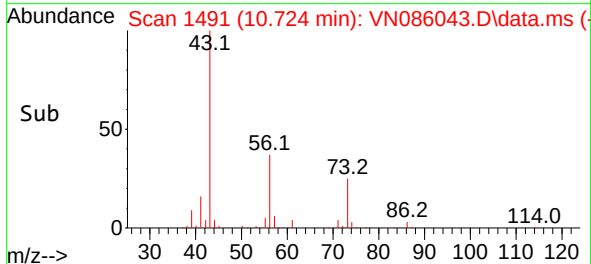
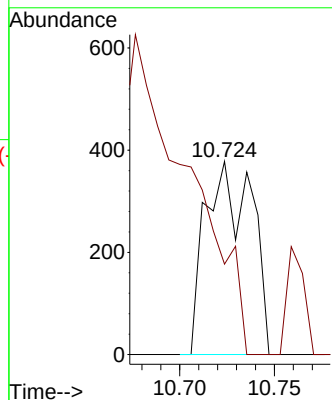
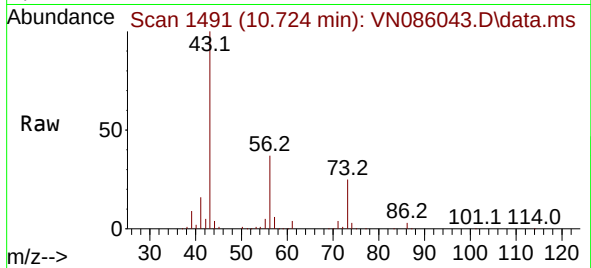




#53
 t-1,3-Dichloropropene
 Concen: 0.224 ug/l
 RT: 10.724 min Scan# 1491
 Delta R.T. -0.112 min
 Lab File: VN086043.D
 Acq: 21 Mar 2025 16:29

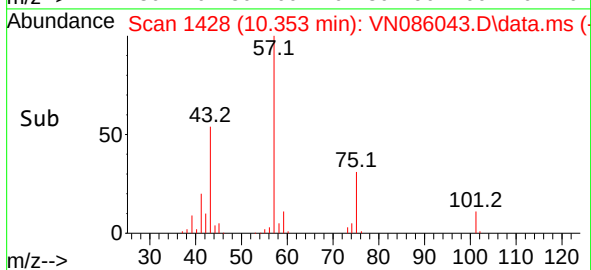
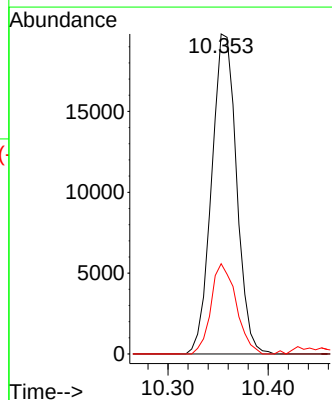
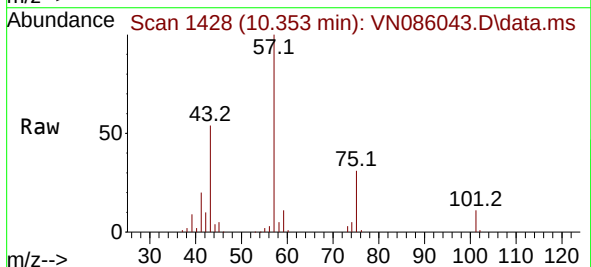
Instrument :
 MSVOA_N
 ClientSampleId :
 PB167234ZHE#03

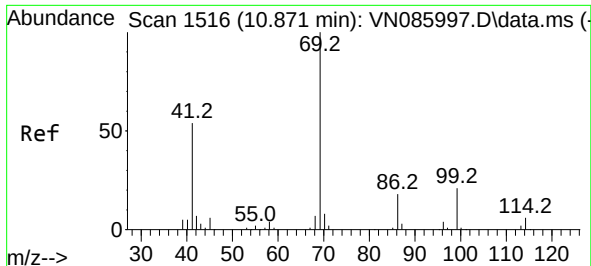
Tgt Ion: 75 Resp: 639
 Ion Ratio Lower Upper
 75 100
 77 46.8 25.3 37.9#



#54
 cis-1,3-Dichloropropene
 Concen: 11.351 ug/l
 RT: 10.353 min Scan# 1428
 Delta R.T. 0.041 min
 Lab File: VN086043.D
 Acq: 21 Mar 2025 16:29

Tgt Ion: 75 Resp: 34225
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.3 37.9#
 39 28.2 29.6 44.4#

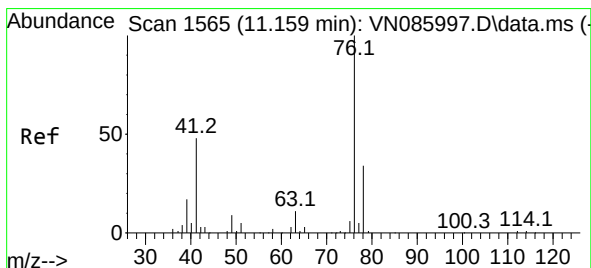
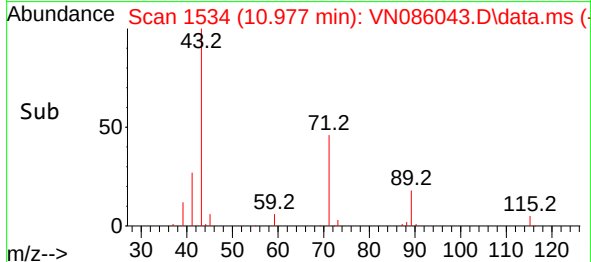
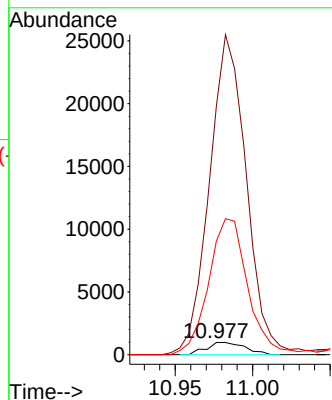
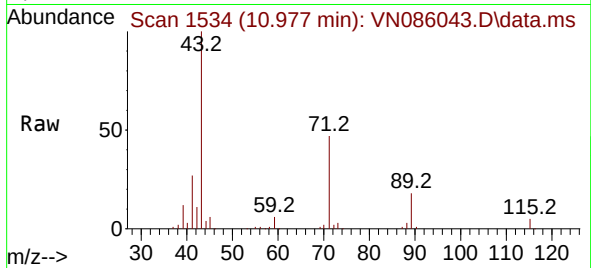




#56
Ethyl methacrylate
Concen: 0.913 ug/l
RT: 10.977 min Scan# 1534
Delta R.T. 0.106 min
Lab File: VN086043.D
Acq: 21 Mar 2025 16:29

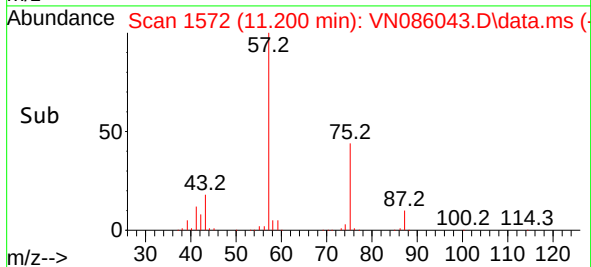
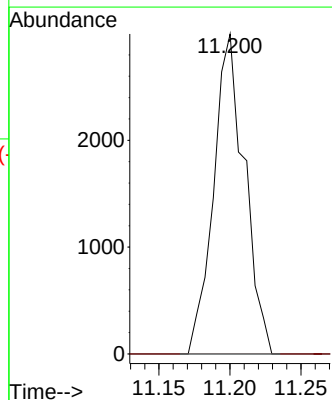
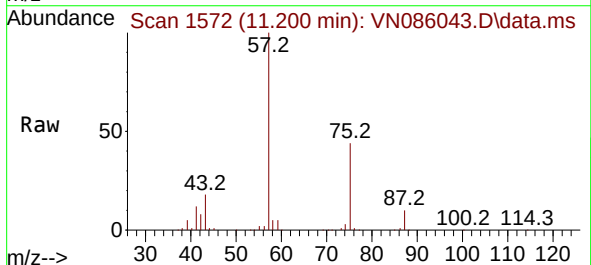
Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#03

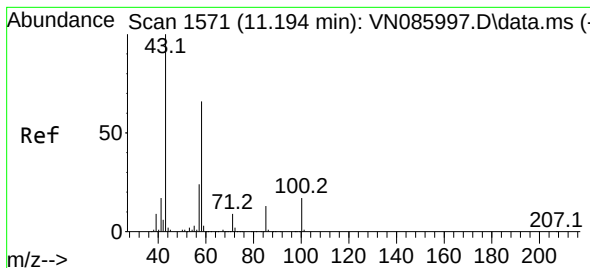
Tgt Ion: 69 Resp: 1689
Ion Ratio Lower Upper
69 100
41 2506.0 41.6 62.4#
39 1134.0 21.8 32.8#



#57
1,3-Dichloropropane
Concen: 1.450 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.041 min
Lab File: VN086043.D
Acq: 21 Mar 2025 16:29

Tgt Ion: 76 Resp: 4540
Ion Ratio Lower Upper
76 100
78 0.0 25.8 38.6#

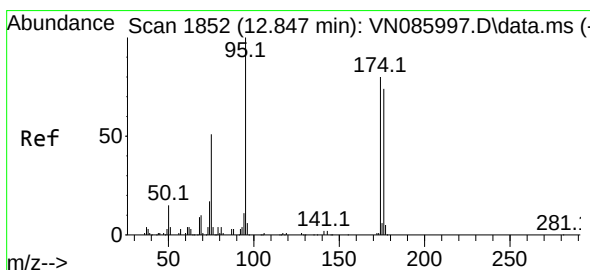
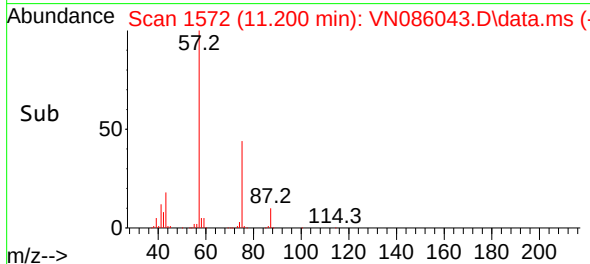
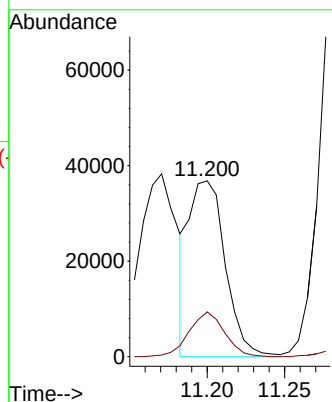
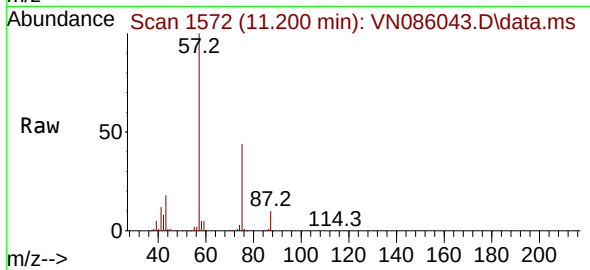




#59
2-Hexanone
Concen: 40.921 ug/l
RT: 11.200 min Scan# 111
Delta R.T. 0.006 min
Lab File: VN086043.D
Acq: 21 Mar 2025 16:29

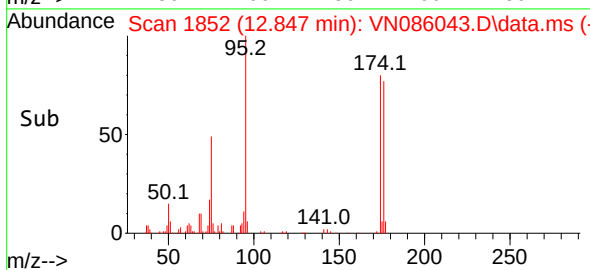
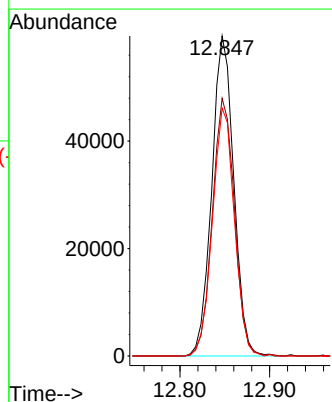
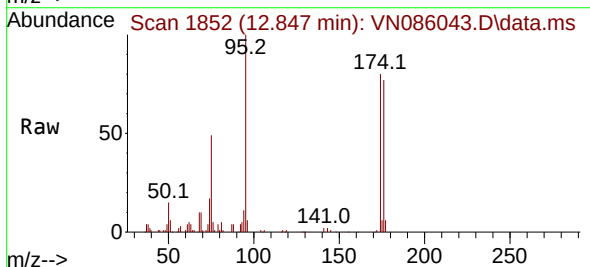
Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#03

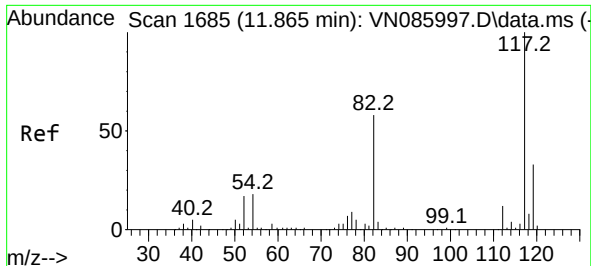
Tgt Ion: 43 Resp: 60267
Ion Ratio Lower Upper
43 100
58 24.8 32.4 97.2#



#62
4-Bromofluorobenzene
Concen: 41.006 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086043.D
Acq: 21 Mar 2025 16:29

Tgt Ion: 95 Resp: 101069
Ion Ratio Lower Upper
95 100
174 81.3 0.0 156.8
176 77.6 0.0 152.2

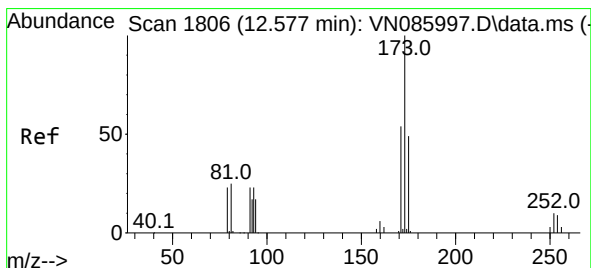
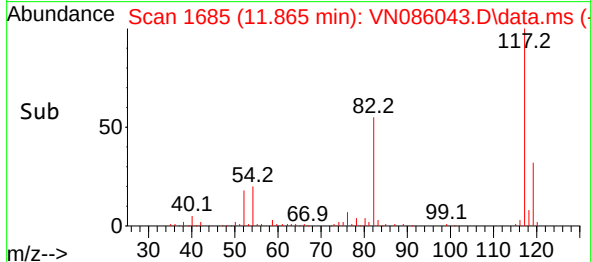
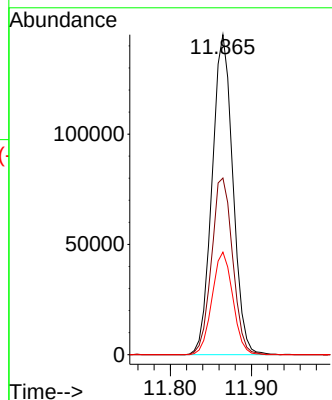
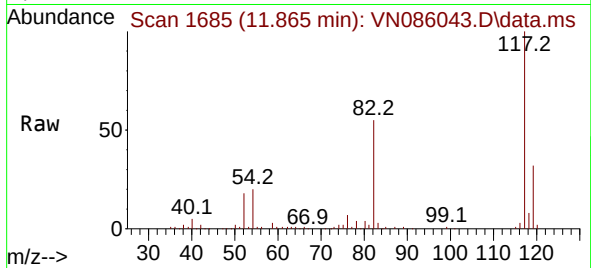




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN086043.D
Acq: 21 Mar 2025 16:29

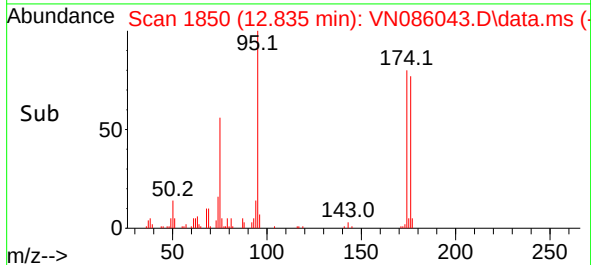
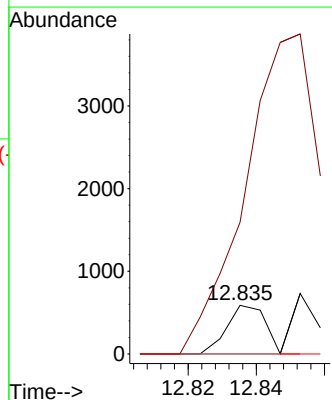
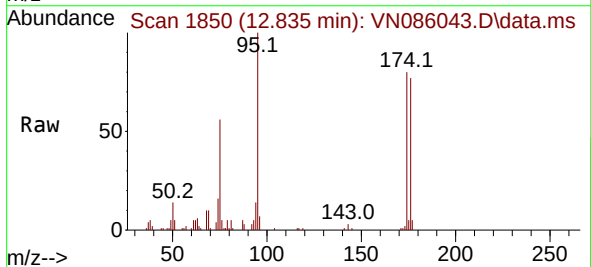
Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#03

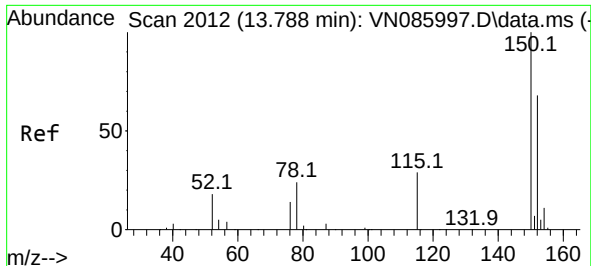
Tgt Ion:117 Resp: 257981
Ion Ratio Lower Upper
117 100
82 55.2 46.7 70.1
119 32.0 26.5 39.7



#71
Bromoform
Concen: 0.251 ug/l
RT: 12.835 min Scan# 1850
Delta R.T. 0.259 min
Lab File: VN086043.D
Acq: 21 Mar 2025 16:29

Tgt Ion:173 Resp: 460
Ion Ratio Lower Upper
173 100
175 0.0 24.3 73.0#
254 0.0 0.0 0.0

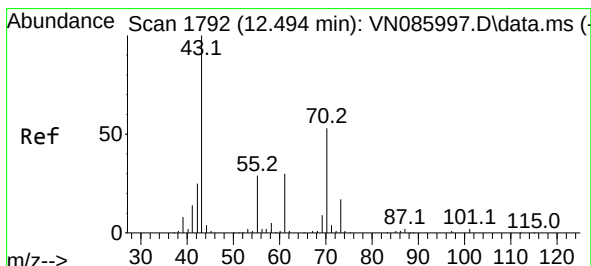
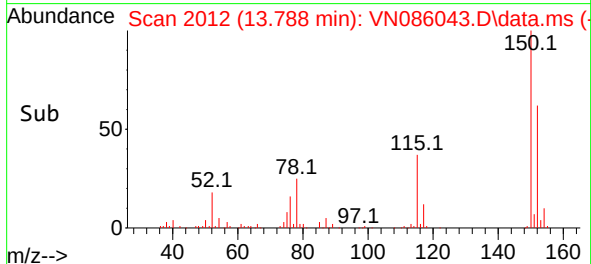
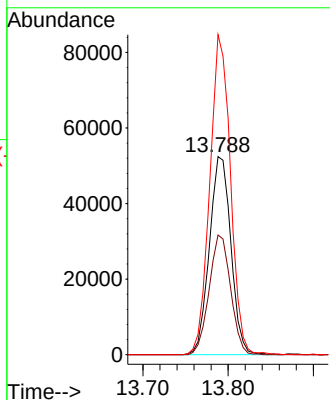
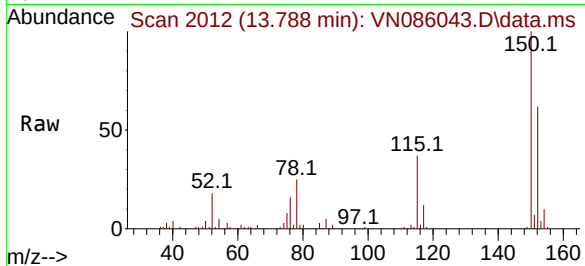




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.788 min Scan# 20
 Delta R.T. -0.000 min
 Lab File: VN086043.D
 Acq: 21 Mar 2025 16:29

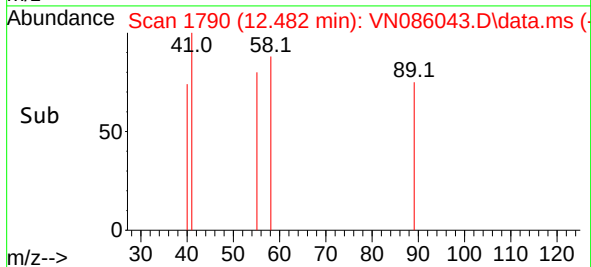
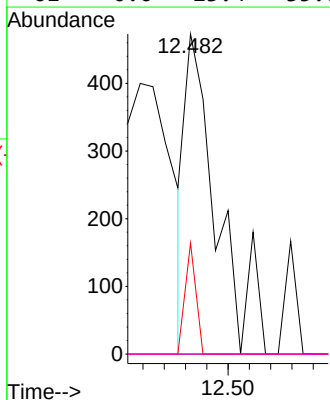
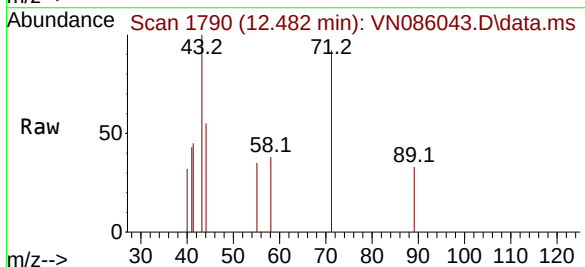
Instrument :
 MSVOA_N
 ClientSampleId :
 PB167234ZHE#03

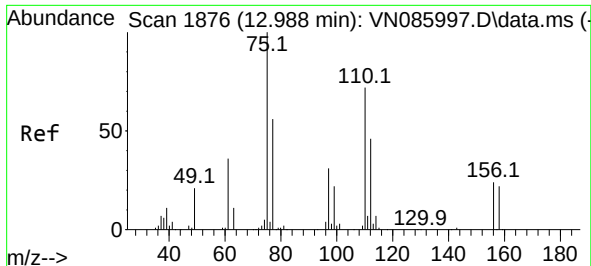
Tgt Ion:152 Resp: 92045
 Ion Ratio Lower Upper
 152 100
 115 60.1 31.1 93.2
 150 155.1 0.0 359.6



#74
 N-ethyl acetate
 Concen: 0.234 ug/l
 RT: 12.482 min Scan# 1790
 Delta R.T. -0.012 min
 Lab File: VN086043.D
 Acq: 21 Mar 2025 16:29

Tgt Ion: 43 Resp: 492
 Ion Ratio Lower Upper
 43 100
 70 0.0 43.0 64.4#
 55 11.8 23.8 35.8#
 61 0.0 23.4 35.0#

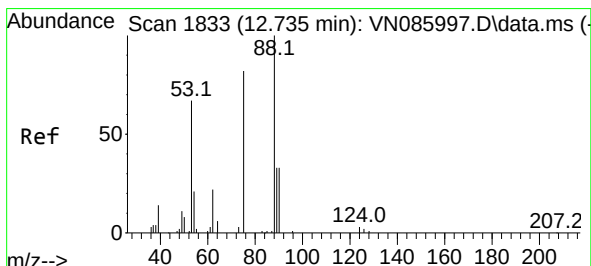
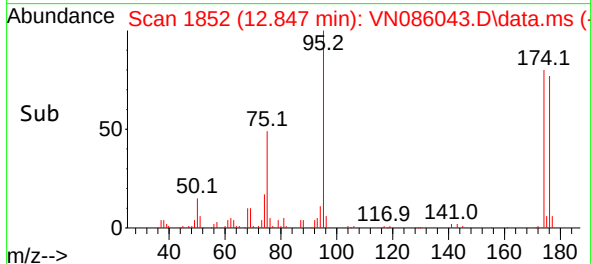
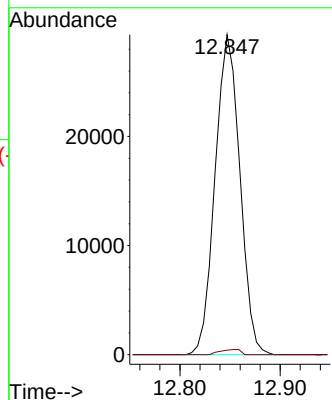
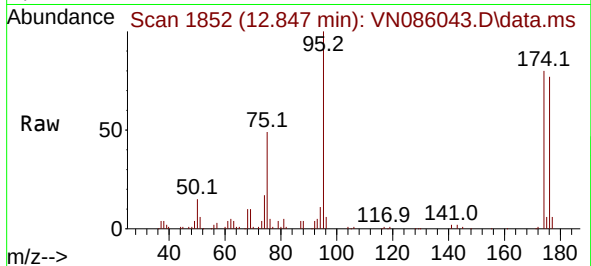




#76
1,2,3-Trichloropropane
Concen: 24.404 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN086043.D
Acq: 21 Mar 2025 16:29

Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#03

Tgt Ion: 75 Resp: 50289
Ion Ratio Lower Upper
75 100
77 1.3 83.7 251.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 64.519 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086043.D
Acq: 21 Mar 2025 16:29

Tgt Ion: 75 Resp: 50289
Ion Ratio Lower Upper
75 100
53 0.0 66.0 99.0#
89 0.0 36.9 55.3#

