

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032525\
 Data File : VN086098.D
 Acq On : 25 Mar 2025 14:16
 Operator : JC\MD
 Sample : PB167276ZHE#03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167276ZHE#03

Quant Time: Mar 26 03:17:38 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)

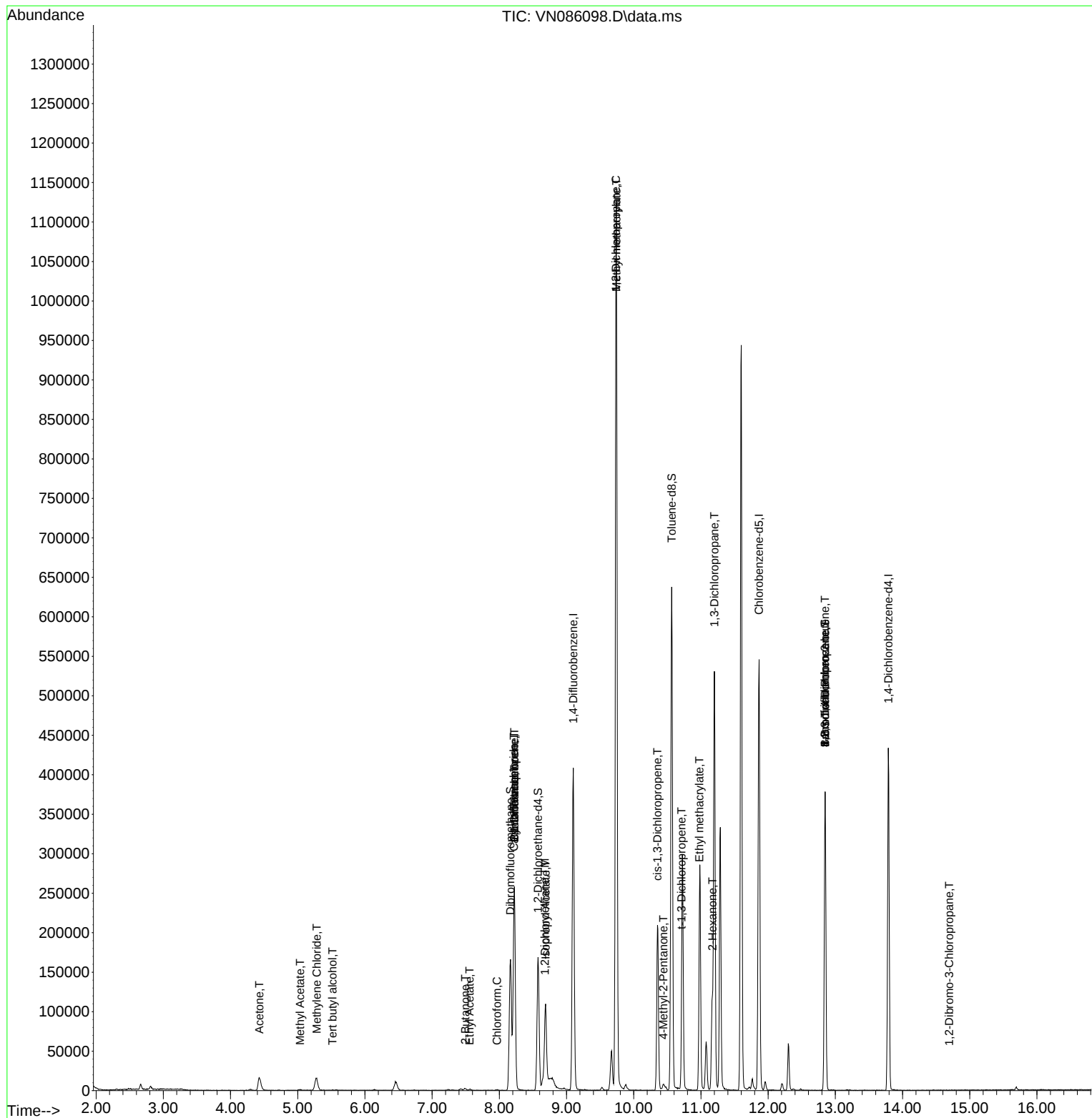
Internal Standards						
1) Pentafluorobenzene	8.224	168	187129	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	351402	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	328013	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	121593	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	138215	53.939	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 107.880%			
35) Dibromofluoromethane	8.165	113	120766	49.237	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.480%			
50) Toluene-d8	10.565	98	451844	50.759	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.520%			
62) 4-Bromofluorobenzene	12.847	95	135364	42.639	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 85.280%			
Target Compounds						Qvalue
11) Tert butyl alcohol	5.518	59	372	1.025	ug/l #	73
16) Acetone	4.430	43	30456	38.904	ug/l	100
18) Methyl Acetate	5.036	43	1849	0.955	ug/l #	68
20) Methylene Chloride	5.283	84	13099	5.720	ug/l	98
25) 2-Butanone	7.494	43	4122	3.649	ug/l	96
30) Chloroform	7.965	83	950	0.229	ug/l	85
31) Cyclohexane	8.224	56	3520	1.102	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	14787	4.579	ug/l #	47
37) Ethyl Acetate	7.559	43	2363	0.867	ug/l #	70
38) Carbon Tetrachloride	8.218	117	20083	4.729	ug/l #	17
42) 1,2-Dichloroethane	8.677	62	815	0.231	ug/l #	74
43) Isopropyl Acetate	8.688	43	132121	22.377	ug/l #	81
45) 1,2-Dichloropropane	9.735	63	1646	0.714	ug/l #	44
48) Methyl methacrylate	9.741	41	95484	49.008	ug/l #	31
51) 4-Methyl-2-Pentanone	10.441	43	9343	3.588	ug/l #	70
53) t-1,3-Dichloropropene	10.712	75	830	0.225	ug/l #	74
54) cis-1,3-Dichloropropene	10.353	75	40256	10.366	ug/l #	68
56) Ethyl methacrylate	10.977	69	1978	0.848	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	5682	1.409	ug/l #	42
59) 2-Hexanone	11.171	43	82529	43.507	ug/l #	18
71) Bromoform	12.847	173	1018	0.436	ug/l #	1
76) 1,2,3-Trichloropropane	12.847	75	67063	24.635	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	67063	65.131	ug/l #	16
92) 1,2-Dibromo-3-Chloropr...	14.694	75	154	0.275	ug/l #	2

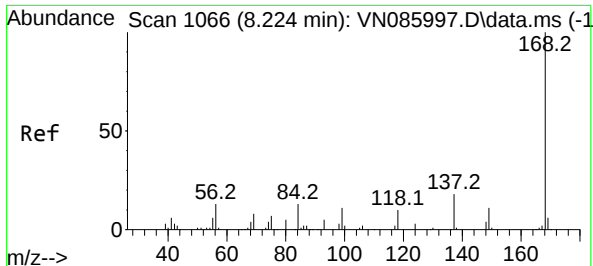
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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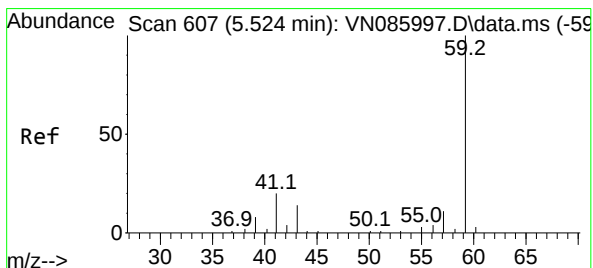
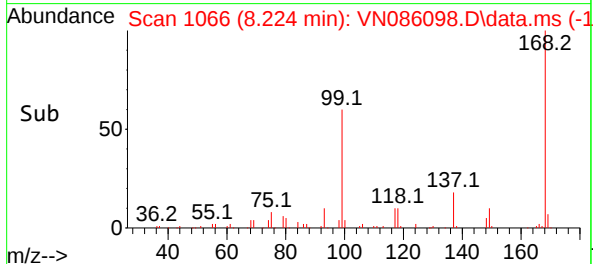
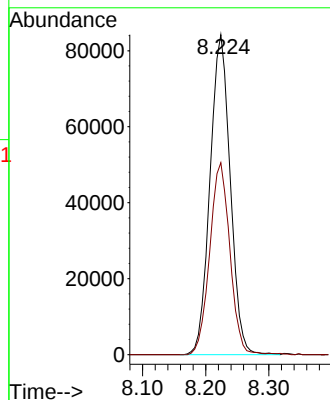
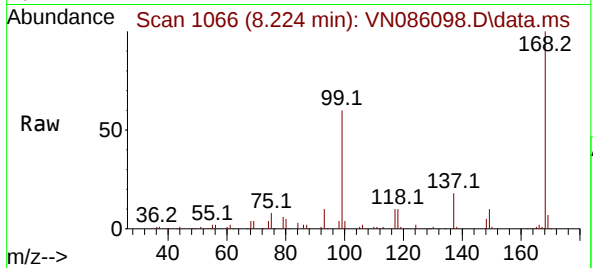




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN086098.D
Acq: 25 Mar 2025 14:16

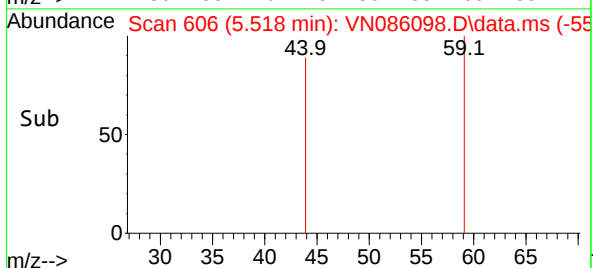
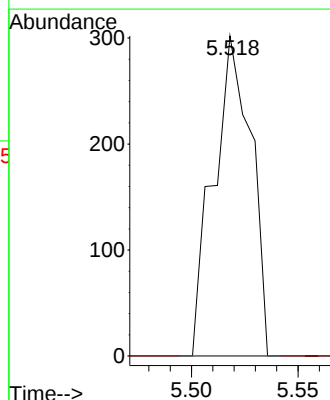
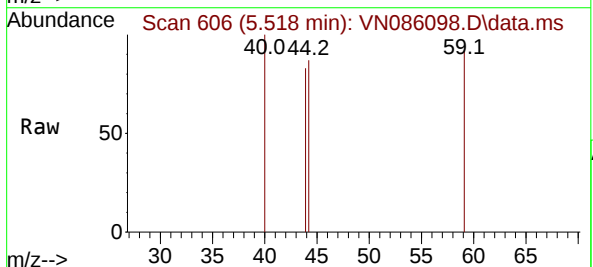
Instrument :
MSVOA_N
ClientSampleId :
PB167276ZHE#03

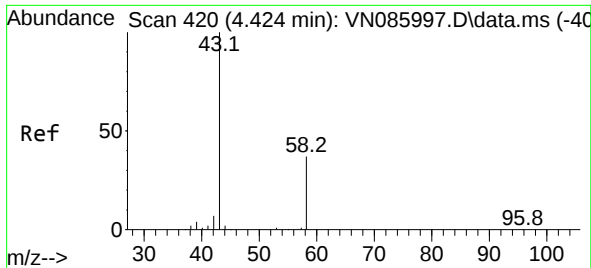
Tgt Ion:168 Resp: 187129
Ion Ratio Lower Upper
168 100
99 60.0 49.4 74.2



#11
Tert butyl alcohol
Concen: 1.025 ug/l
RT: 5.518 min Scan# 606
Delta R.T. -0.006 min
Lab File: VN086098.D
Acq: 25 Mar 2025 14:16

Tgt Ion: 59 Resp: 372
Ion Ratio Lower Upper
59 100
57 0.0 7.9 11.9#

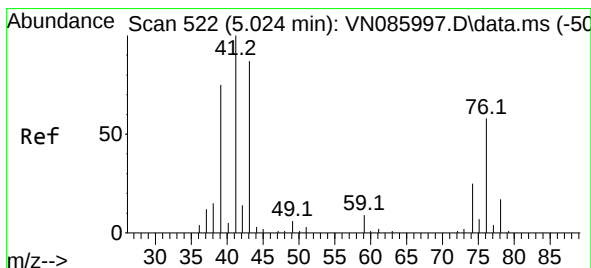
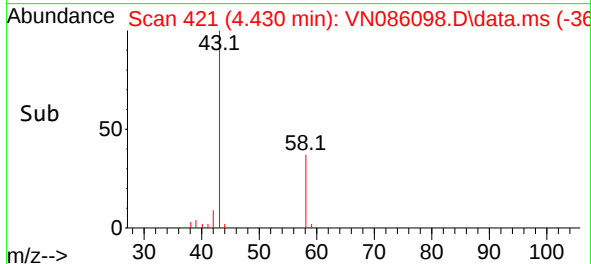
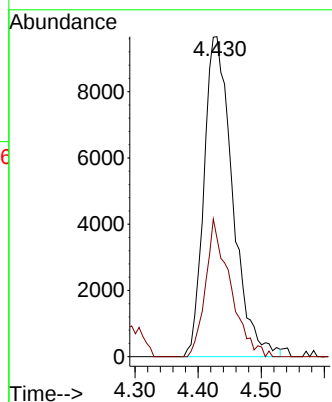
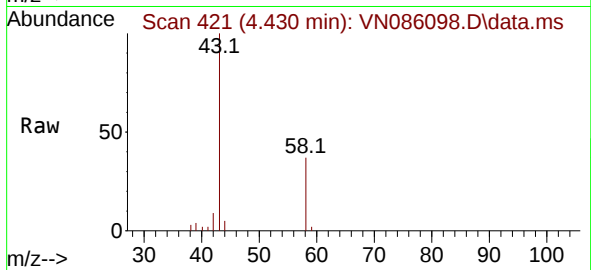




#16
Acetone
Concen: 38.904 ug/l
RT: 4.430 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN086098.D
Acq: 25 Mar 2025 14:16

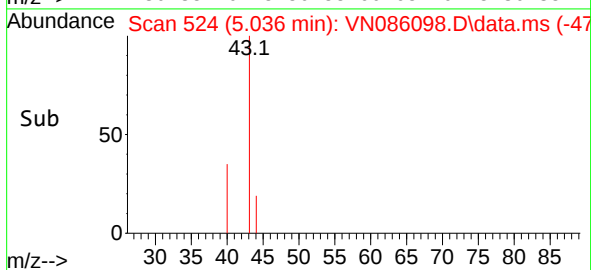
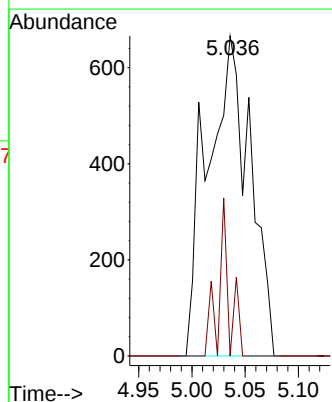
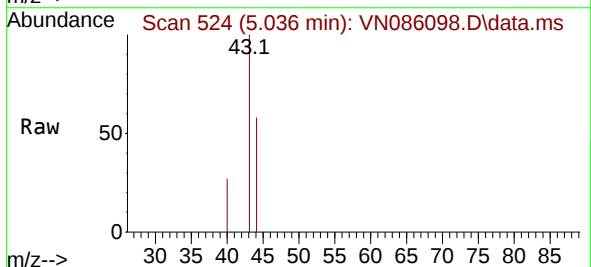
Instrument :
MSVOA_N
ClientSampleId :
PB167276ZHE#03

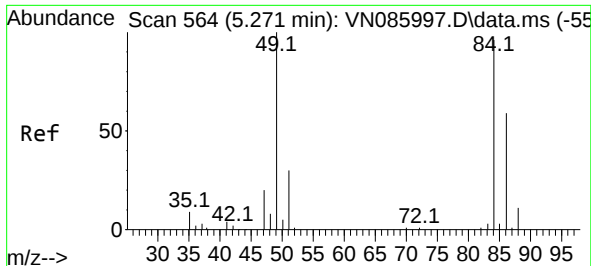
Tgt Ion: 43 Resp: 30456
Ion Ratio Lower Upper
43 100
58 37.0 29.4 44.2



#18
Methyl Acetate
Concen: 0.955 ug/l
RT: 5.036 min Scan# 524
Delta R.T. 0.012 min
Lab File: VN086098.D
Acq: 25 Mar 2025 14:16

Tgt Ion: 43 Resp: 1849
Ion Ratio Lower Upper
43 100
74 12.4 23.9 35.9#

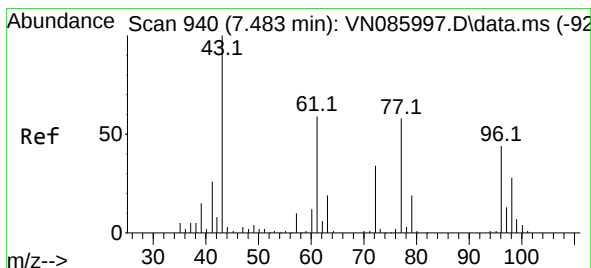
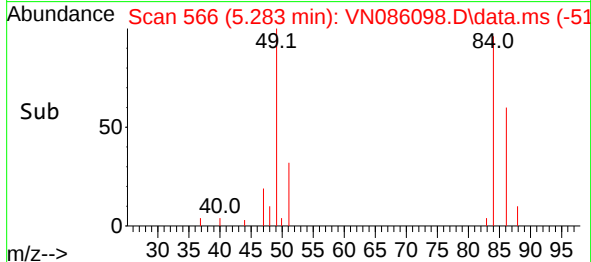
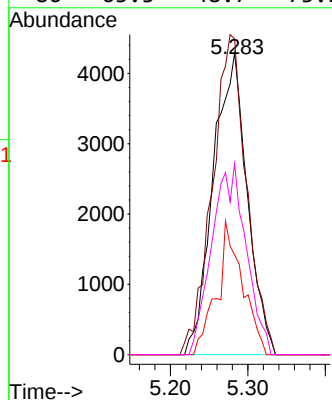
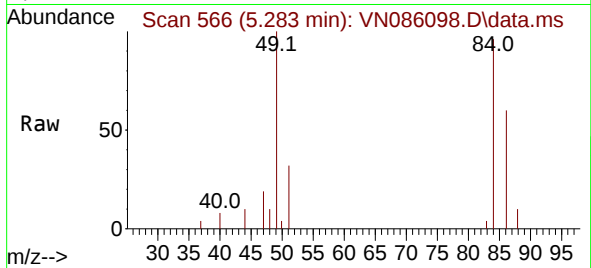




#20
Methylene Chloride
Concen: 5.720 ug/l
RT: 5.283 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN086098.D
Acq: 25 Mar 2025 14:16

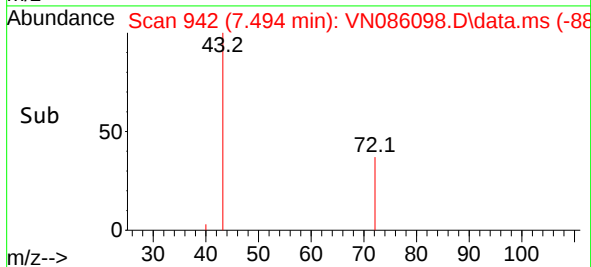
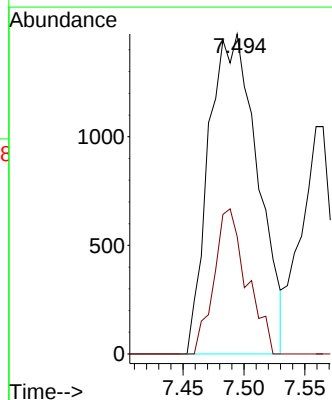
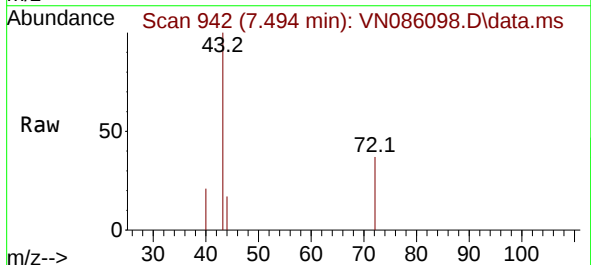
Instrument :
MSVOA_N
ClientSampleId :
PB167276ZHE#03

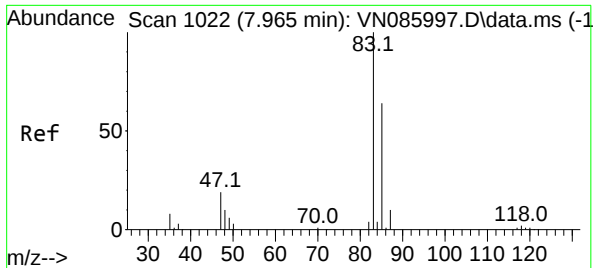
Tgt Ion: 84	Resp: 13099
Ion Ratio	Lower Upper
84 100	
49 104.7	83.3 124.9
51 33.1	24.8 37.2
86 63.3	48.7 73.1



#25
2-Butanone
Concen: 3.649 ug/l
RT: 7.494 min Scan# 942
Delta R.T. 0.012 min
Lab File: VN086098.D
Acq: 25 Mar 2025 14:16

Tgt Ion: 43	Resp: 4122		
Ion Ratio	Lower	Upper	
43 100			
72 36.7	27.4	41.0	

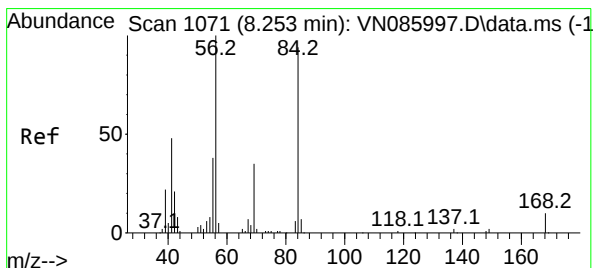
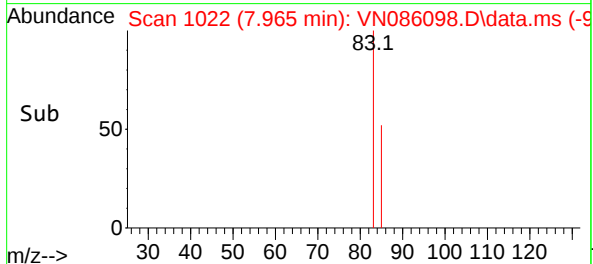
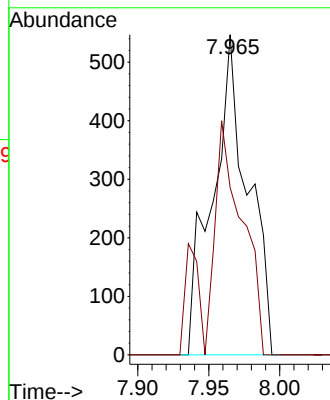
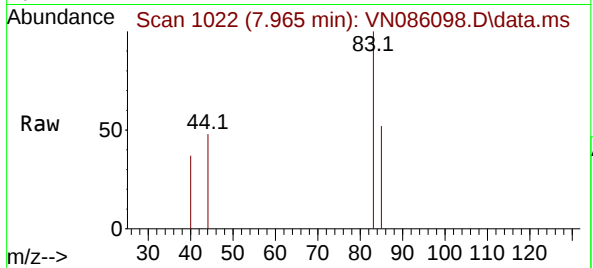




#30
Chloroform
Concen: 0.229 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. -0.000 min
Lab File: VN086098.D
Acq: 25 Mar 2025 14:16

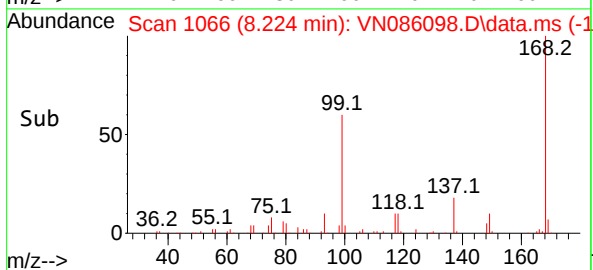
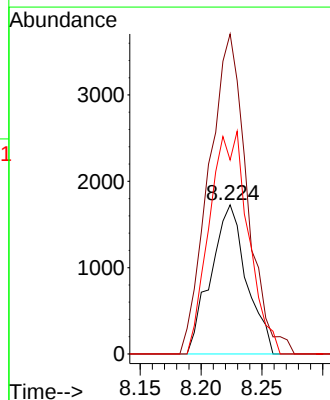
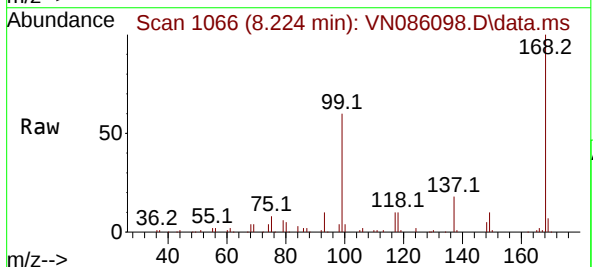
Instrument :
MSVOA_N
ClientSampleId :
PB167276ZHE#03

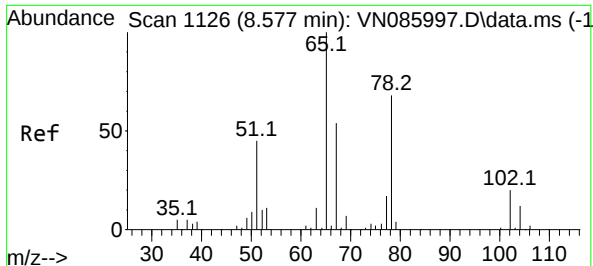
Tgt Ion: 83 Resp: 950
Ion Ratio Lower Upper
83 100
85 52.3 51.5 77.3



#31
Cyclohexane
Concen: 1.102 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.029 min
Lab File: VN086098.D
Acq: 25 Mar 2025 14:16

Tgt Ion: 56 Resp: 3520
Ion Ratio Lower Upper
56 100
69 214.6 28.0 42.0#
84 130.1 75.0 112.6#





#33

1,2-Dichloroethane-d4

Concen: 53.939 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086098.D

Acq: 25 Mar 2025 14:16

Instrument :

MSVOA_N

ClientSampleId :

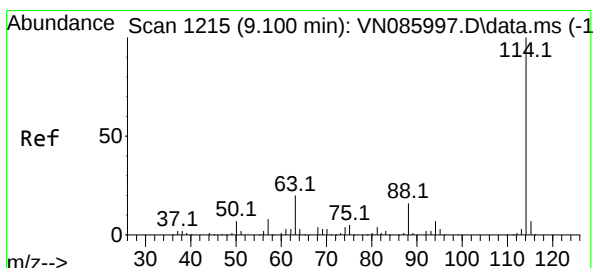
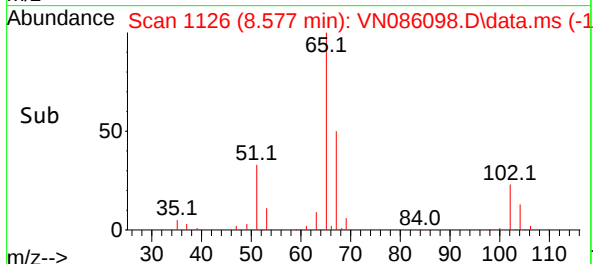
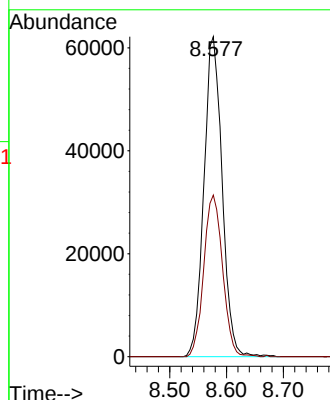
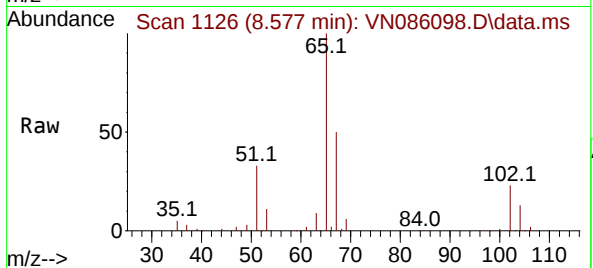
PB167276ZHE#03

Tgt Ion: 65 Resp: 138215

Ion Ratio Lower Upper

65 100

67 52.1 0.0 102.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN086098.D

Acq: 25 Mar 2025 14:16

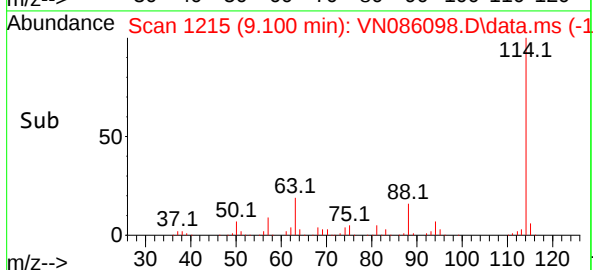
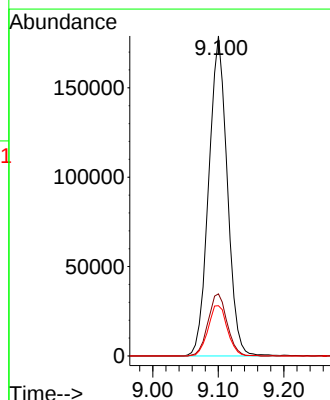
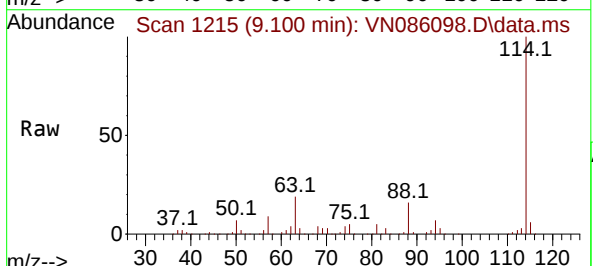
Tgt Ion: 114 Resp: 351402

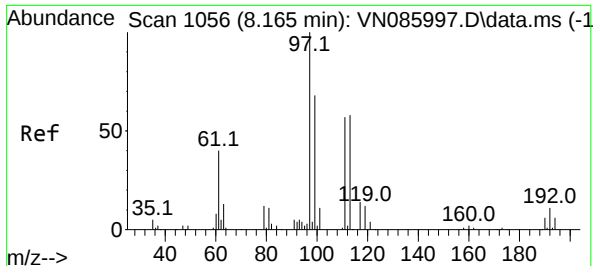
Ion Ratio Lower Upper

114 100

63 19.4 0.0 39.6

88 15.7 0.0 32.6





#35

Dibromofluoromethane

Concen: 49.237 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086098.D

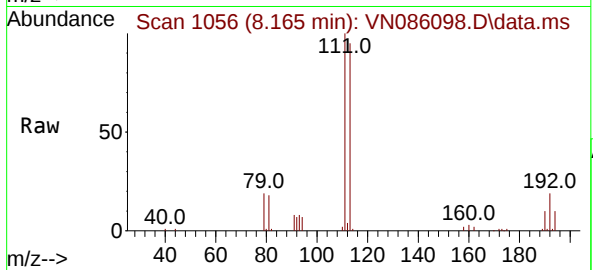
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Instrument :

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ClientSampleId :

PB167276ZHE#03



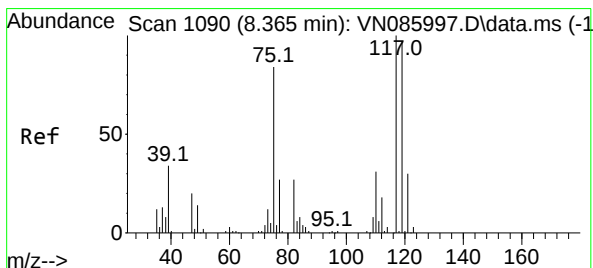
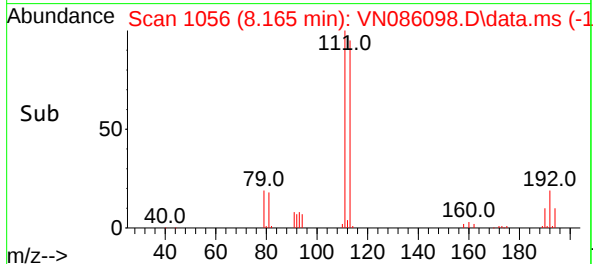
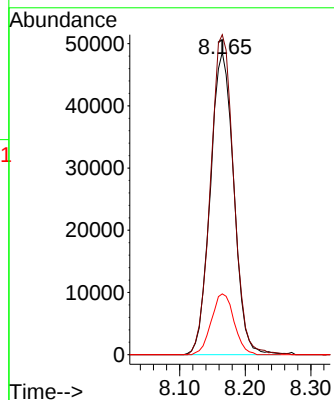
Tgt Ion:113 Resp: 120766

Ion Ratio Lower Upper

113 100

111 104.7 81.8 122.8

192 19.5 15.9 23.9



#36

1,1-Dichloropropene

Concen: 4.579 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

Lab File: VN086098.D

Acq: 25 Mar 2025 14:16

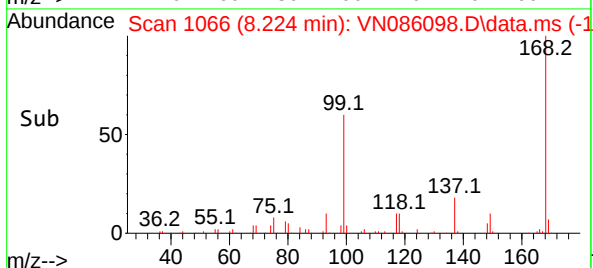
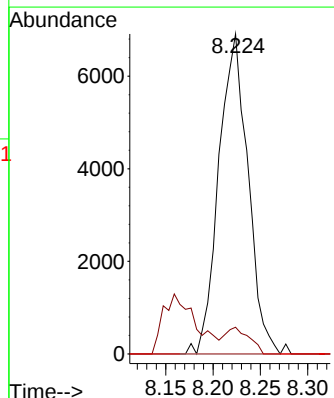
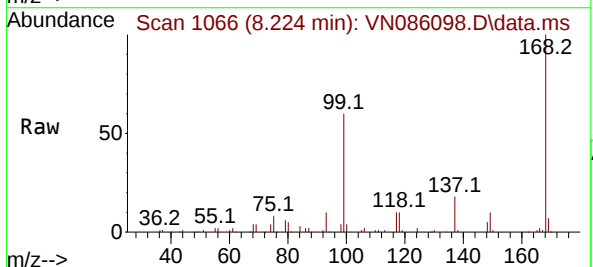
Tgt Ion: 75 Resp: 14787

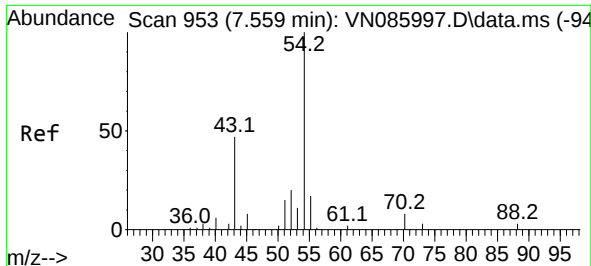
Ion Ratio Lower Upper

75 100

110 6.8 17.8 53.3#

77 0.0 25.0 37.4#

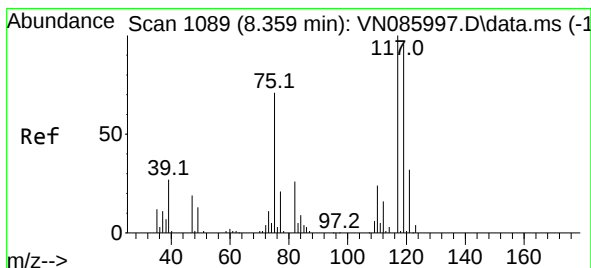
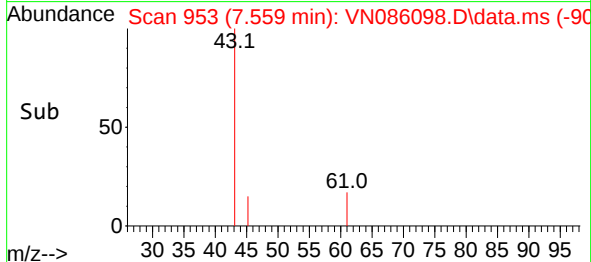
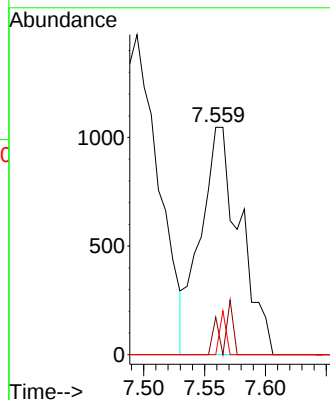
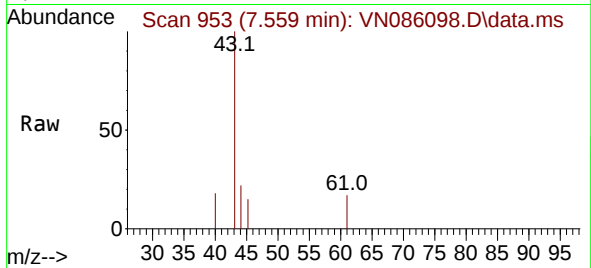




#37
Ethyl Acetate
Concen: 0.867 ug/l
RT: 7.559 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN086098.D
Acq: 25 Mar 2025 14:16

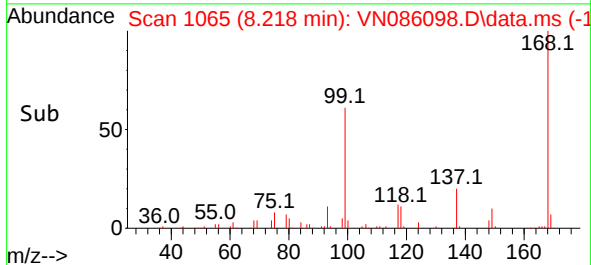
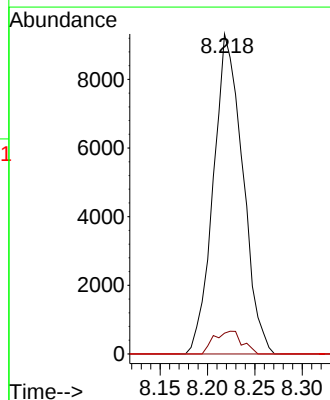
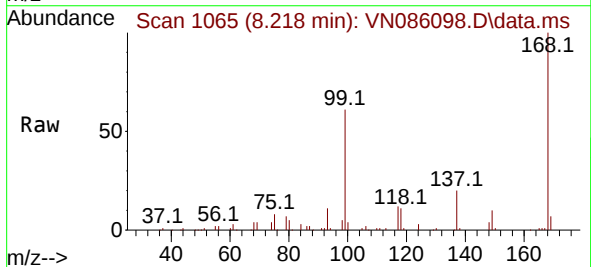
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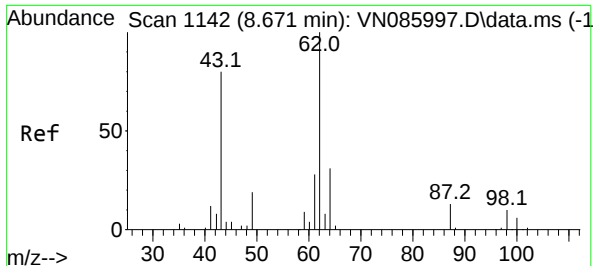
Tgt Ion: 43	Resp:	2363	
Ion Ratio	Lower	Upper	
43	100		
61	2.6	13.0	19.4#
70	3.0	11.0	16.6#



#38
Carbon Tetrachloride
Concen: 4.729 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.141 min
Lab File: VN086098.D
Acq: 25 Mar 2025 14:16

Tgt Ion:117	Resp:	20083	
Ion	Ratio	Lower	Upper
117	100		
119	6.5	77.0	115.4#
121	0.0	25.6	38.4#





#42

1,2-Dichloroethane

Concen: 0.231 ug/l

RT: 8.677 min Scan# 1143

Delta R.T. 0.006 min

Lab File: VN086098.D

Acq: 25 Mar 2025 14:16

Instrument :

MSVOA_N

ClientSampleId :

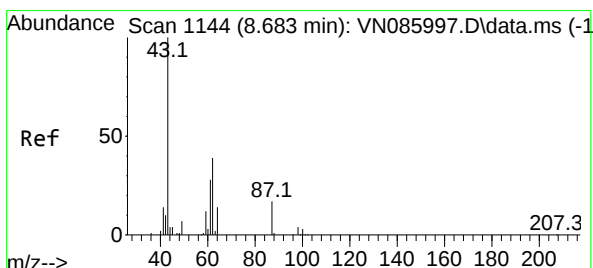
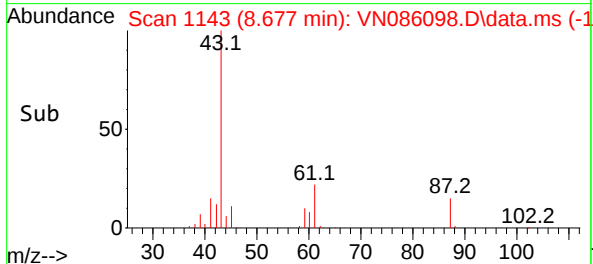
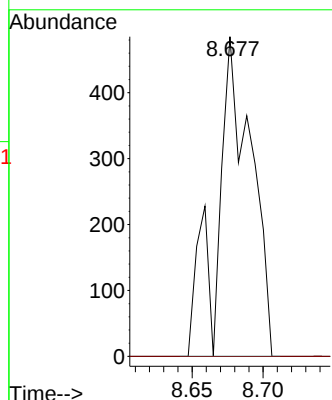
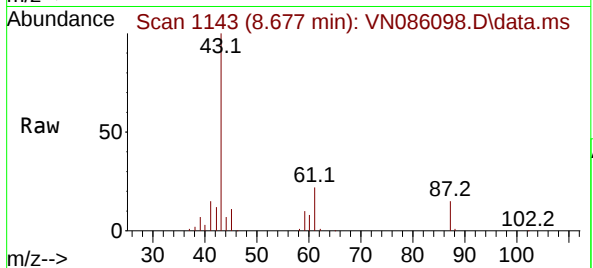
PB167276ZHE#03

Tgt Ion: 62 Resp: 815

Ion Ratio Lower Upper

62 100

98 0.0 0.0 18.6



#43

Isopropyl Acetate

Concen: 22.377 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.006 min

Lab File: VN086098.D

Acq: 25 Mar 2025 14:16

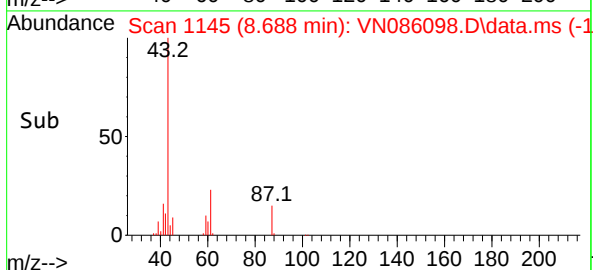
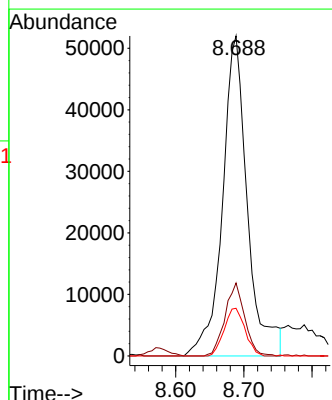
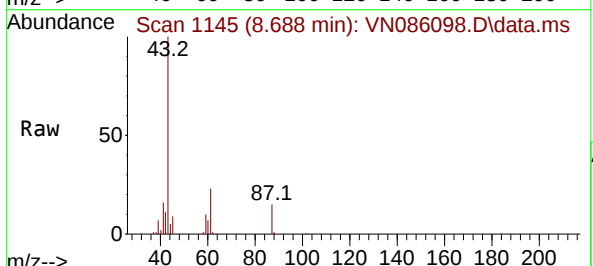
Tgt Ion: 43 Resp: 132121

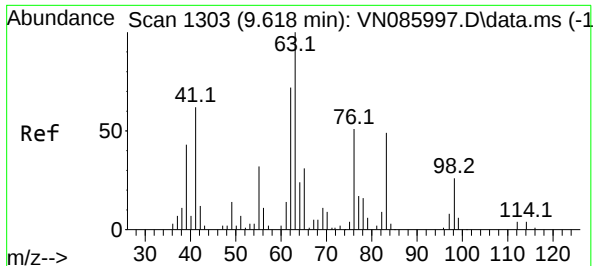
Ion Ratio Lower Upper

43 100

61 18.0 25.0 37.6#

87 12.4 13.0 19.4#





#45

1,2-Dichloropropane

Concen: 0.714 ug/l

RT: 9.735 min Scan# 11

Delta R.T. 0.118 min

Lab File: VN086098.D

Acq: 25 Mar 2025 14:16

Instrument :

MSVOA_N

ClientSampleId :

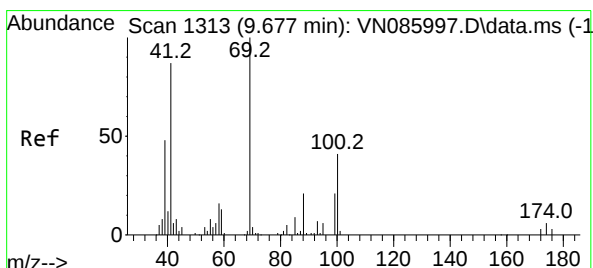
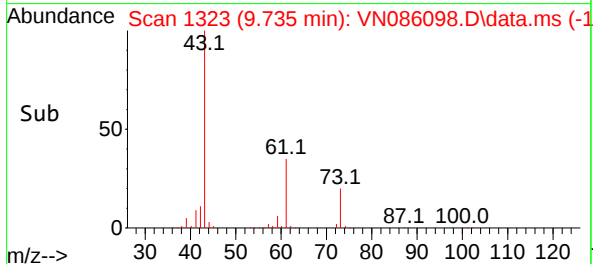
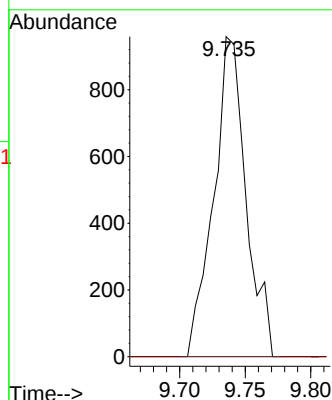
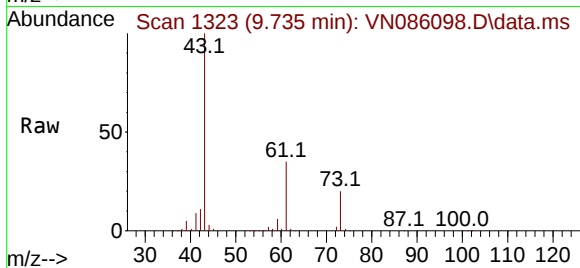
PB167276ZHE#03

Tgt Ion: 63 Resp: 1646

Ion Ratio Lower Upper

63 100

65 0.0 24.7 37.1#



#48

Methyl methacrylate

Concen: 49.008 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.065 min

Lab File: VN086098.D

Acq: 25 Mar 2025 14:16

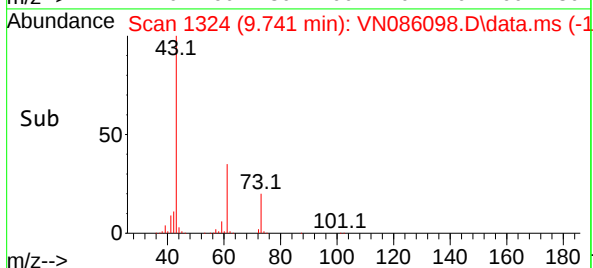
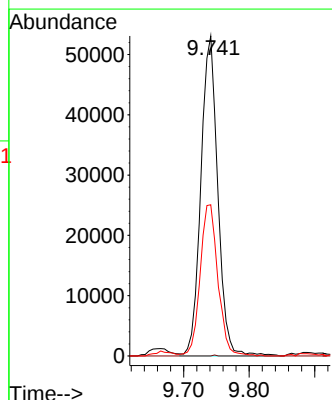
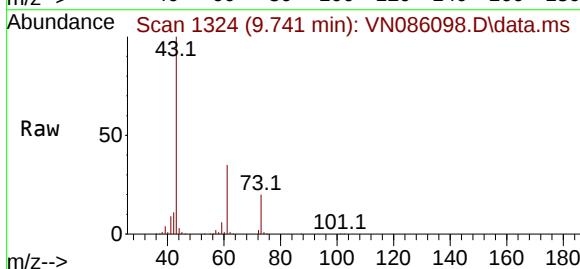
Tgt Ion: 41 Resp: 95484

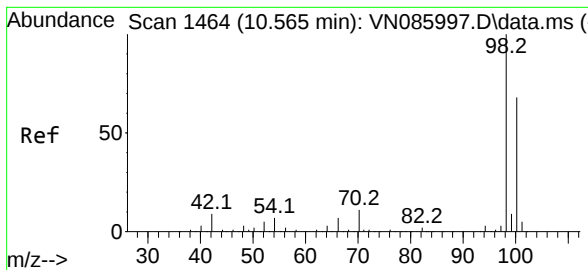
Ion Ratio Lower Upper

41 100

69 0.1 83.1 124.7#

39 49.7 45.6 68.4

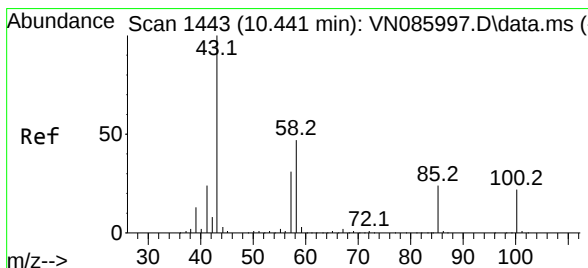
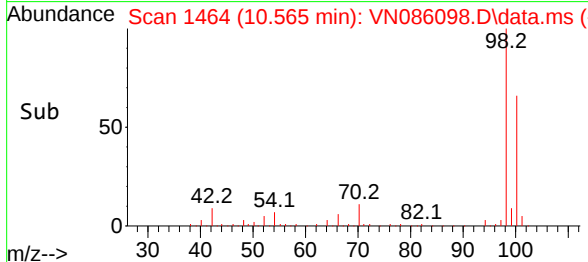
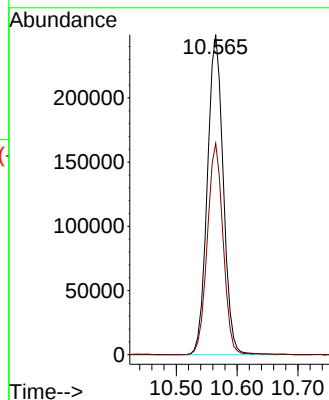
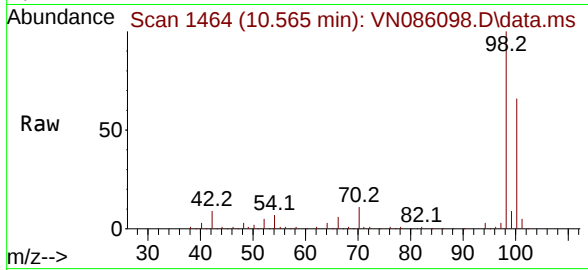




#50
Toluene-d8
Concen: 50.759 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086098.D
Acq: 25 Mar 2025 14:16

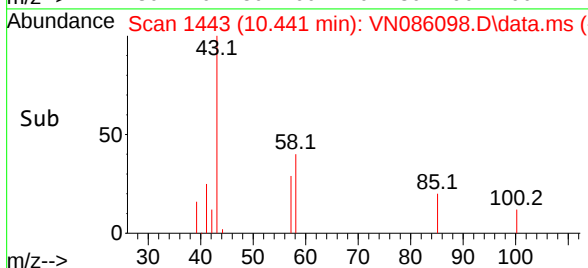
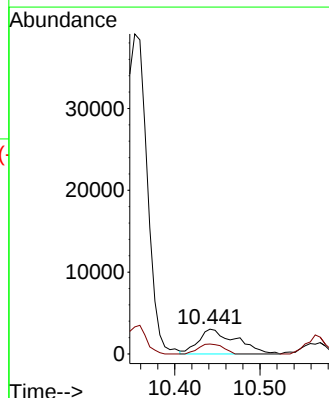
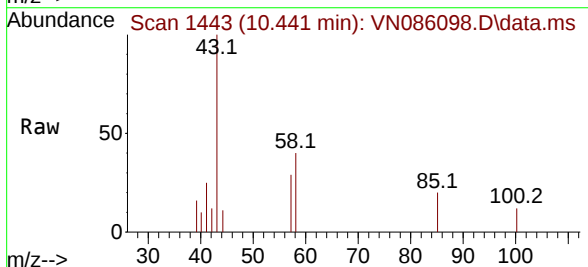
Instrument :
MSVOA_N
ClientSampleId :
PB167276ZHE#03

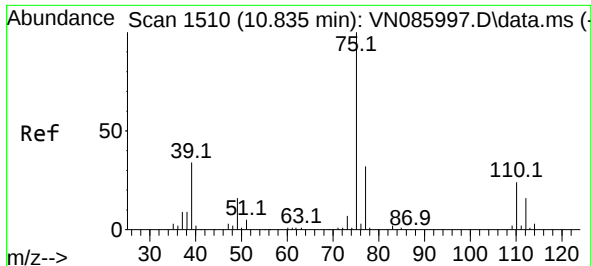
Tgt Ion: 98 Resp: 451844
Ion Ratio Lower Upper
98 100
100 65.5 53.1 79.7



#51
4-Methyl-2-Pentanone
Concen: 3.588 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086098.D
Acq: 25 Mar 2025 14:16

Tgt Ion: 43 Resp: 9343
Ion Ratio Lower Upper
43 100
58 26.4 37.4 56.0#

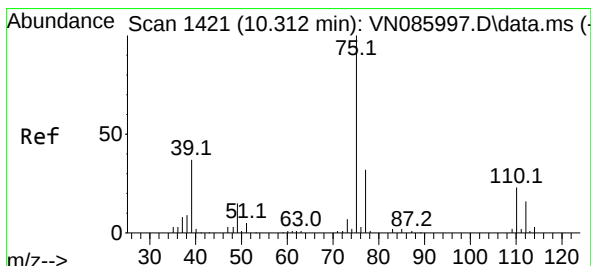
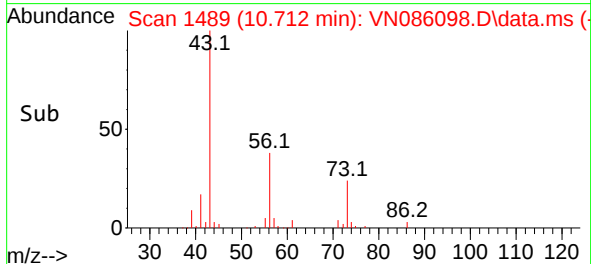
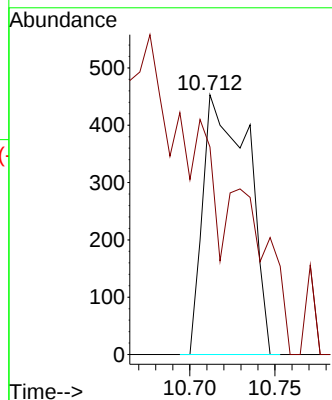
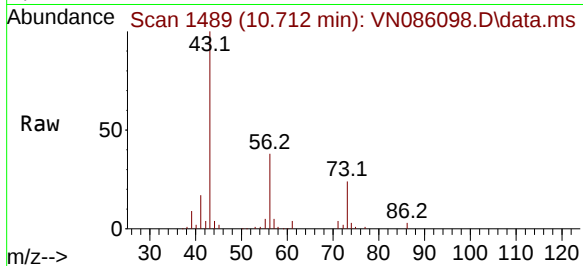




#53
t-1,3-Dichloropropene
Concen: 0.225 ug/l
RT: 10.712 min Scan# 1489
Delta R.T. -0.124 min
Lab File: VN086098.D
Acq: 25 Mar 2025 14:16

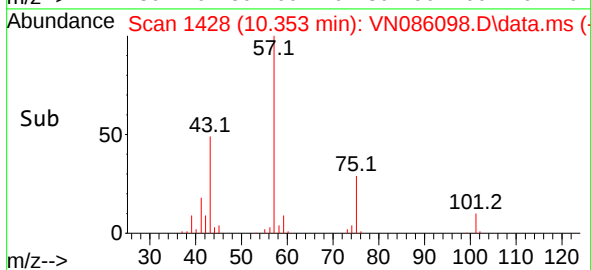
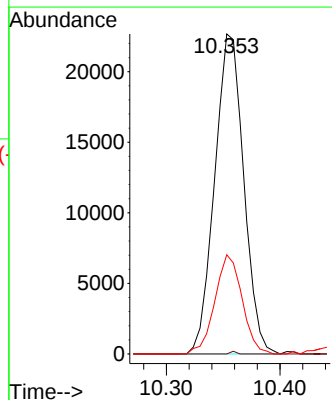
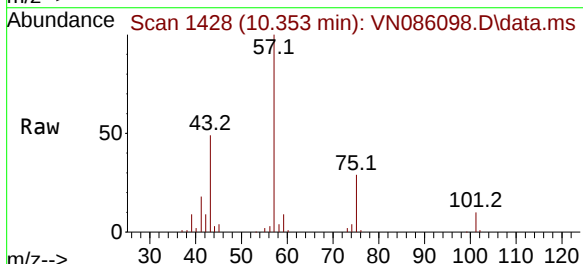
Instrument :
MSVOA_N
ClientSampleId :
PB167276ZHE#03

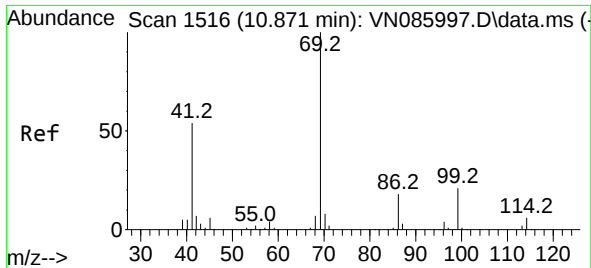
Tgt Ion: 75 Resp: 830
Ion Ratio Lower Upper
75 100
77 45.9 25.3 37.9#



#54
cis-1,3-Dichloropropene
Concen: 10.366 ug/l
RT: 10.353 min Scan# 1428
Delta R.T. 0.041 min
Lab File: VN086098.D
Acq: 25 Mar 2025 14:16

Tgt Ion: 75 Resp: 40256
Ion Ratio Lower Upper
75 100
77 0.0 25.3 37.9#
39 31.0 29.6 44.4

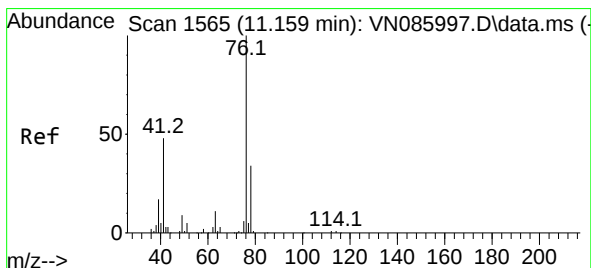
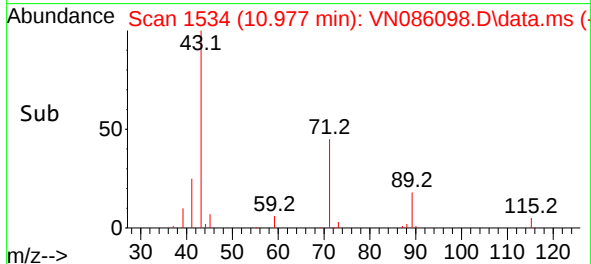
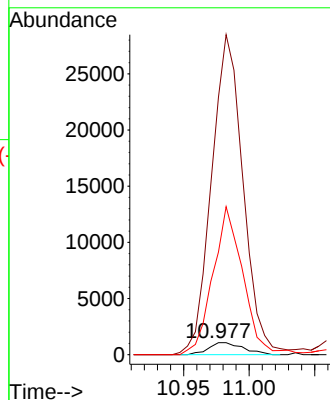
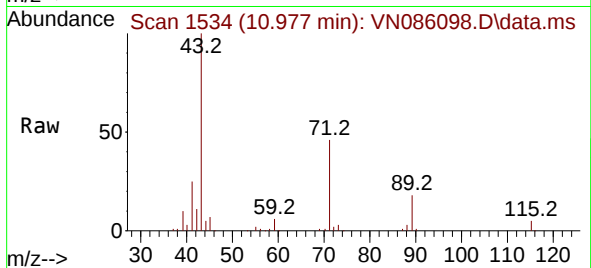




#56
Ethyl methacrylate
Concen: 0.848 ug/l
RT: 10.977 min Scan# 1534
Delta R.T. 0.106 min
Lab File: VN086098.D
Acq: 25 Mar 2025 14:16

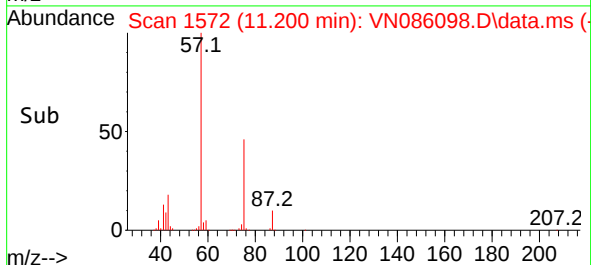
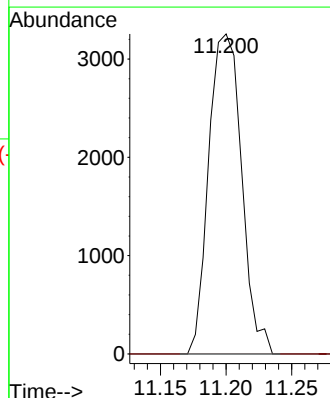
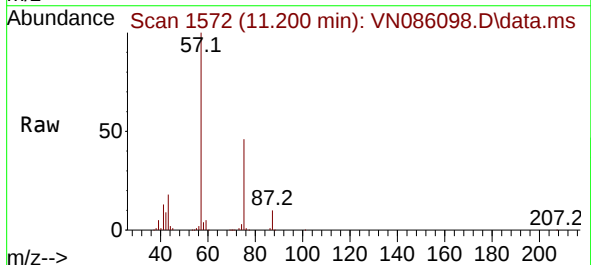
Instrument :
MSVOA_N
ClientSampleId :
PB167276ZHE#03

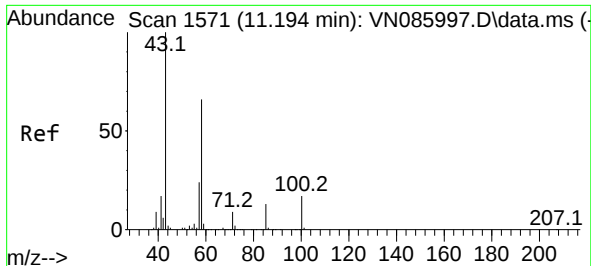
Tgt Ion: 69 Resp: 1978
Ion Ratio Lower Upper
69 100
41 2416.3 41.6 62.4#
39 1066.2 21.8 32.8#



#57
1,3-Dichloropropane
Concen: 1.409 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.041 min
Lab File: VN086098.D
Acq: 25 Mar 2025 14:16

Tgt Ion: 76 Resp: 5682
Ion Ratio Lower Upper
76 100
78 0.0 25.8 38.6#

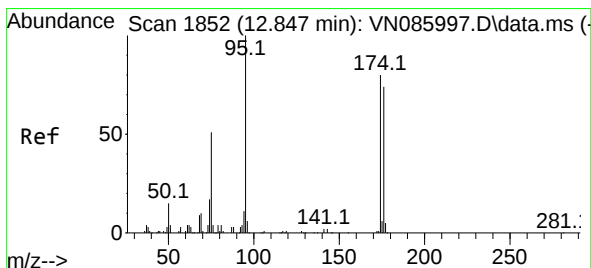
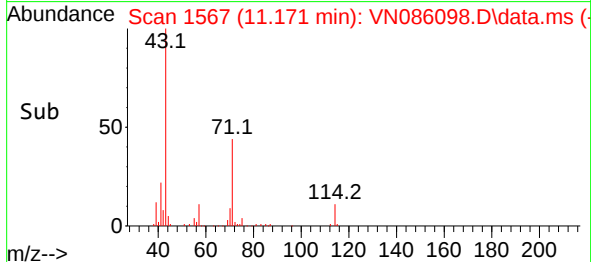
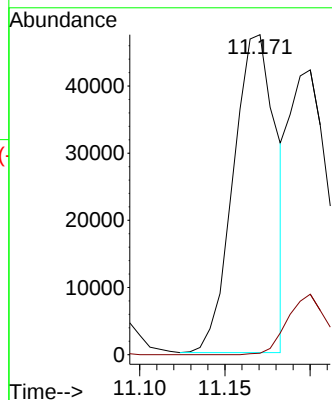
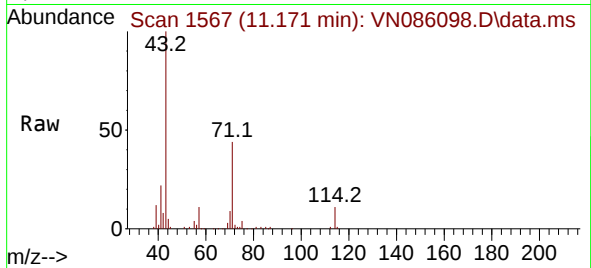




#59
2-Hexanone
Concen: 43.507 ug/l
RT: 11.171 min Scan# 11
Delta R.T. -0.024 min
Lab File: VN086098.D
Acq: 25 Mar 2025 14:16

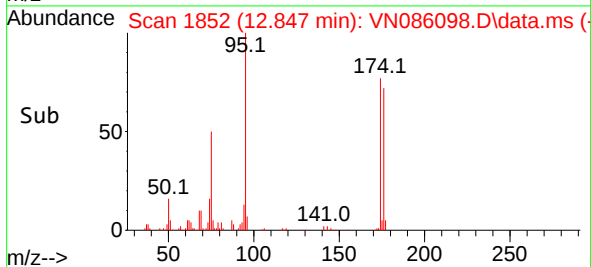
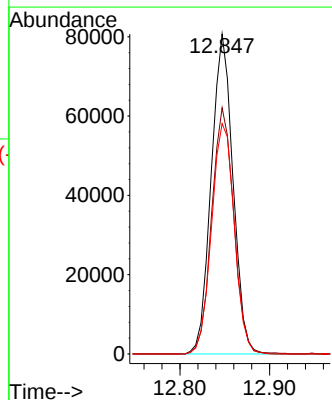
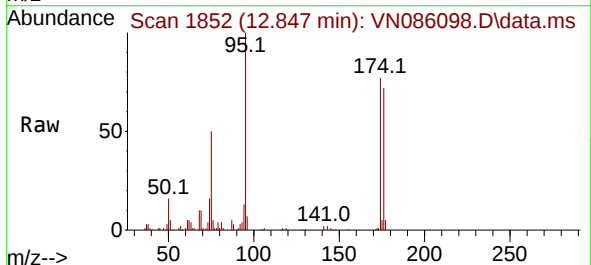
Instrument :
MSVOA_N
ClientSampleId :
PB167276ZHE#03

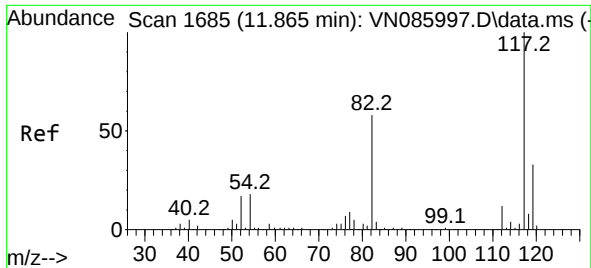
Tgt Ion: 43 Resp: 82529
Ion Ratio Lower Upper
43 100
58 0.0 32.4 97.2#



#62
4-Bromofluorobenzene
Concen: 42.639 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086098.D
Acq: 25 Mar 2025 14:16

Tgt Ion: 95 Resp: 135364
Ion Ratio Lower Upper
95 100
174 78.5 0.0 156.8
176 75.3 0.0 152.2

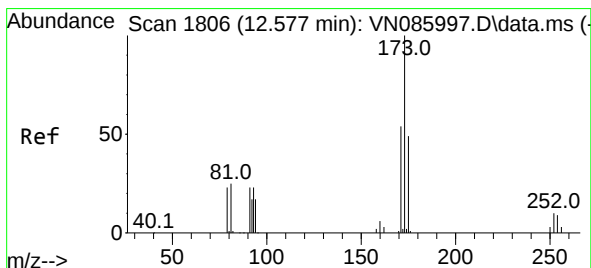
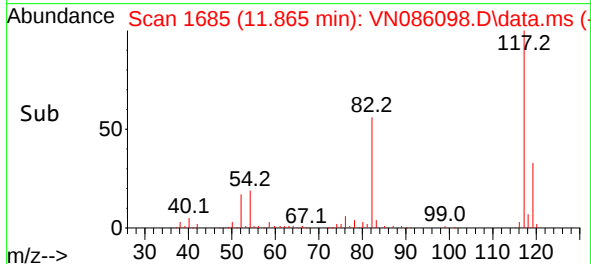
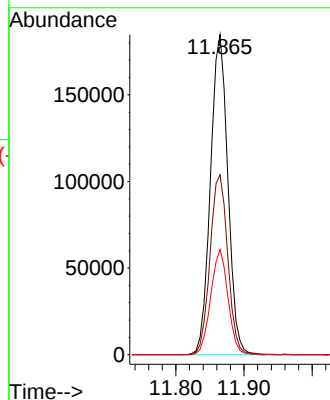
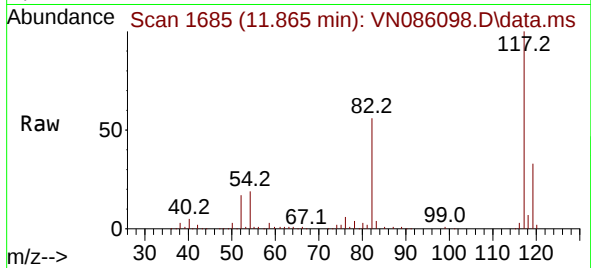




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1172
Delta R.T. -0.000 min
Lab File: VN086098.D
Acq: 25 Mar 2025 14:16

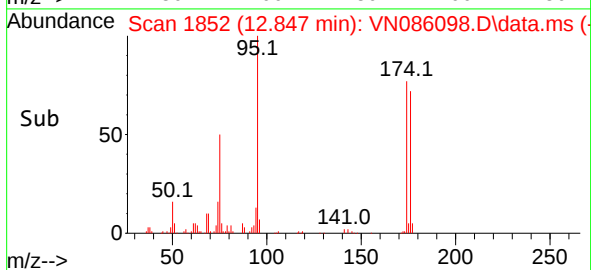
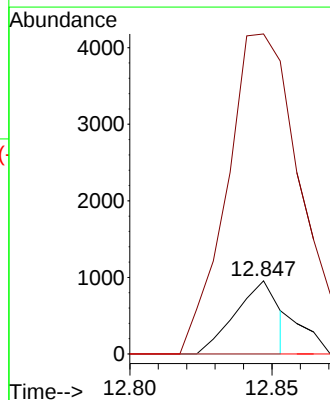
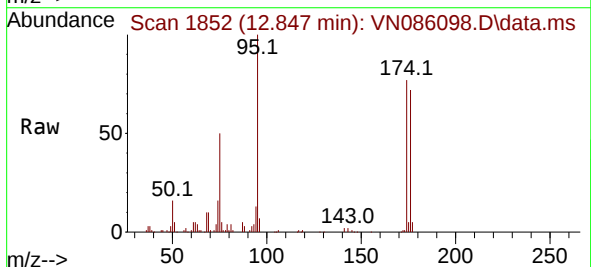
Instrument :
MSVOA_N
ClientSampleId :
PB167276ZHE#03

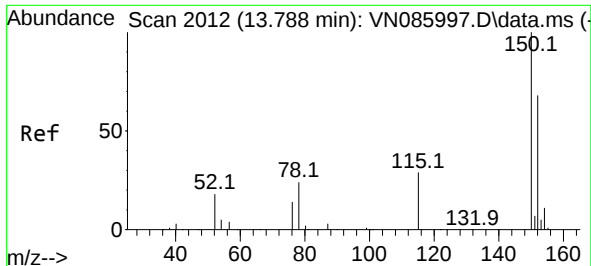
Tgt Ion:117 Resp: 328013
Ion Ratio Lower Upper
117 100
82 56.2 46.7 70.1
119 32.9 26.5 39.7



#71
Bromoform
Concen: 0.436 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.271 min
Lab File: VN086098.D
Acq: 25 Mar 2025 14:16

Tgt Ion:173 Resp: 1018
Ion Ratio Lower Upper
173 100
175 566.1 24.3 73.0#
254 0.0 0.0 0.0

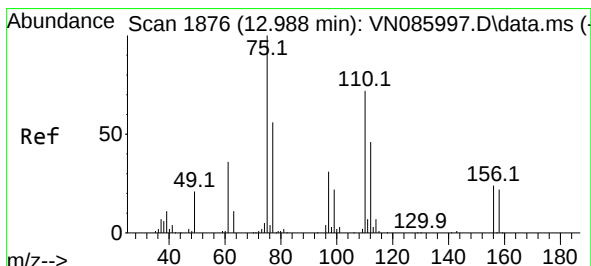
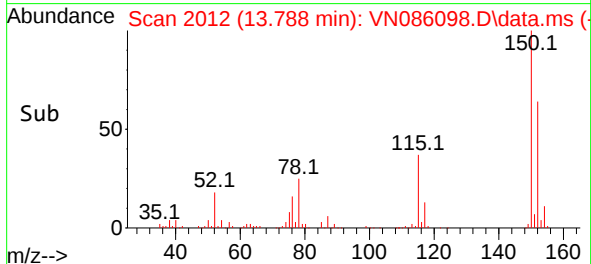
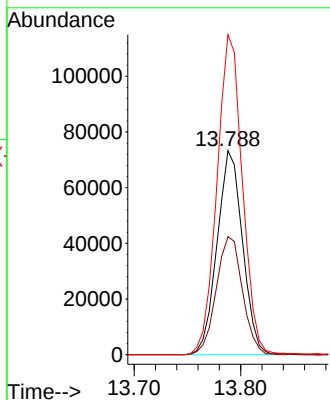
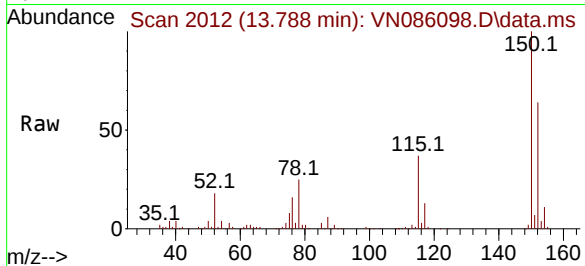




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.788 min Scan# 20
 Delta R.T. -0.000 min
 Lab File: VN086098.D
 Acq: 25 Mar 2025 14:16

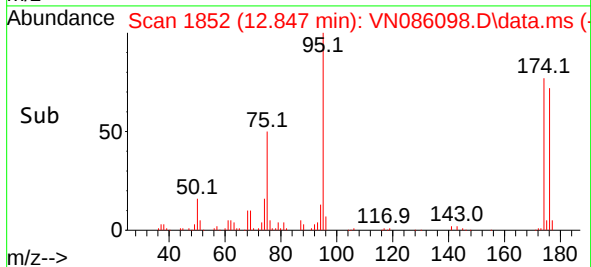
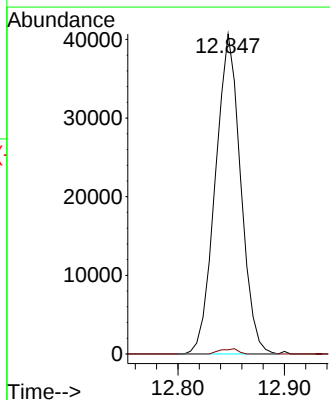
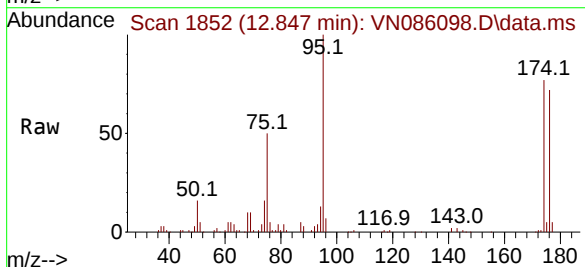
Instrument :
 MSVOA_N
 ClientSampleId :
 PB167276ZHE#03

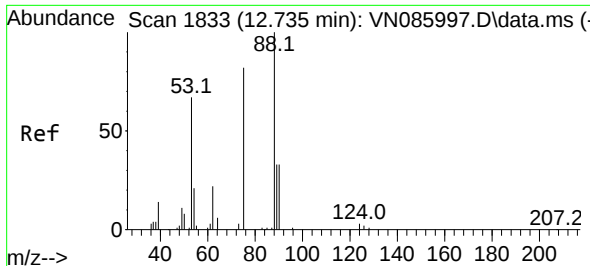
Tgt Ion:152 Resp: 121593
 Ion Ratio Lower Upper
 152 100
 115 59.6 31.1 93.2
 150 157.1 0.0 359.6



#76
 1,2,3-Trichloropropane
 Concen: 24.635 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. -0.141 min
 Lab File: VN086098.D
 Acq: 25 Mar 2025 14:16

Tgt Ion: 75 Resp: 67063
 Ion Ratio Lower Upper
 75 100
 77 1.2 83.7 251.0#

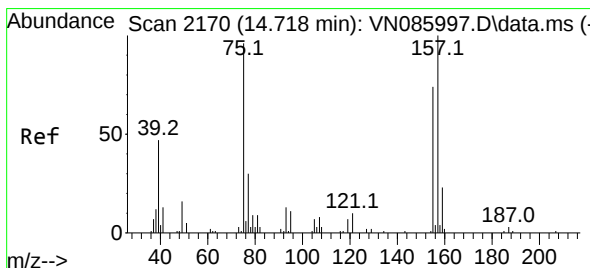
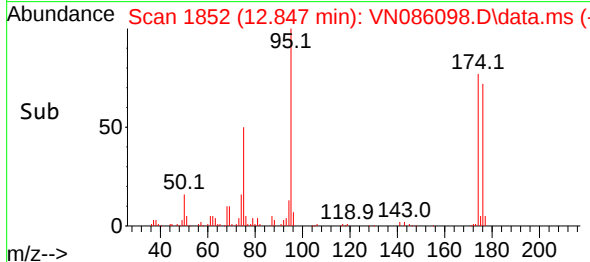
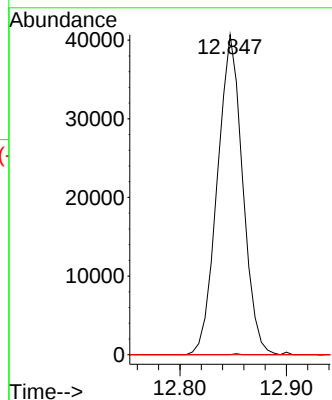
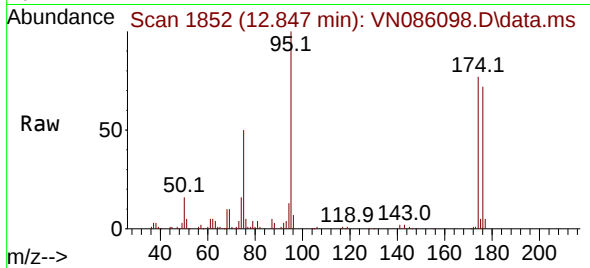




#81
 trans-1,4-Dichloro-2-butene
 Concen: 65.131 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN086098.D
 Acq: 25 Mar 2025 14:16

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167276ZHE#03

Tgt Ion: 75 Resp: 67063
 Ion Ratio Lower Upper
 75 100
 53 0.1 66.0 99.0#
 89 0.0 36.9 55.3#



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.275 ug/l
 RT: 14.694 min Scan# 2166
 Delta R.T. -0.024 min
 Lab File: VN086098.D
 Acq: 25 Mar 2025 14:16

Tgt Ion: 75 Resp: 154
 Ion Ratio Lower Upper
 75 100
 155 0.0 41.0 123.0#
 157 0.0 53.7 161.1#

