

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032125\
 Data File : VN086041.D
 Acq On : 21 Mar 2025 15:41
 Operator : JC\MD
 Sample : PB167234ZHE#01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167234ZHE#01

Quant Time: Mar 21 22:59:04 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	145094	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	263894	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	265504	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	98136	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	112226	56.485	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 112.960%	
35) Dibromofluoromethane	8.165	113	95750	51.983	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 103.960%	
50) Toluene-d8	10.565	98	353841	52.931	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 105.860%	
62) 4-Bromofluorobenzene	12.847	95	105907	44.423	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 88.840%	

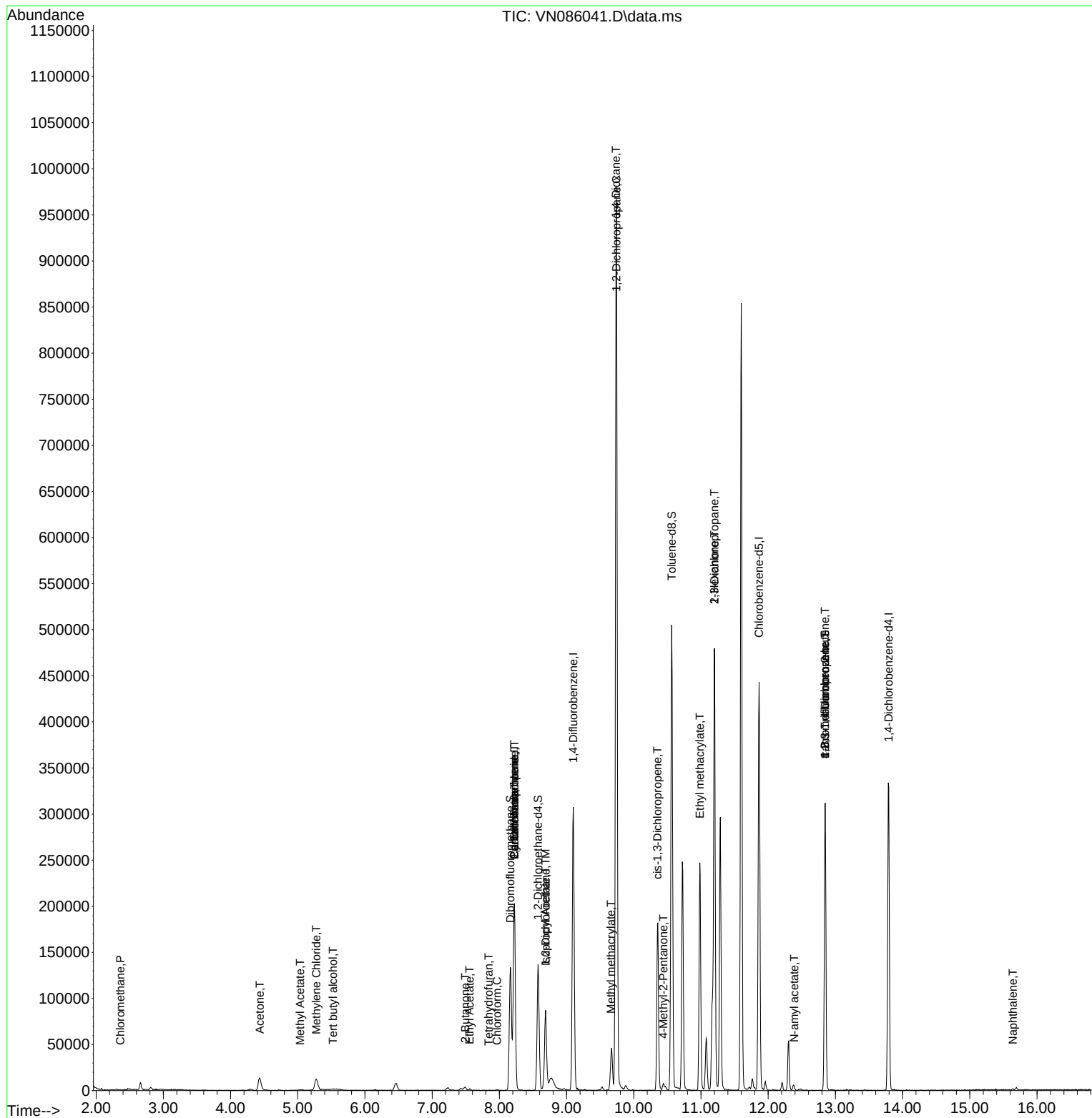
Target Compounds					Qvalue	
3) Chloromethane	2.359	50	413	0.245	ug/l #	42
11) Tert butyl alcohol	5.524	59	697	2.478	ug/l #	73
16) Acetone	4.436	43	26476	43.618	ug/l	99
18) Methyl Acetate	5.036	43	1107	0.737	ug/l #	67
20) Methylene Chloride	5.277	84	9759	5.496	ug/l #	82
25) 2-Butanone	7.494	43	6485	7.404	ug/l #	76
29) Tetrahydrofuran	7.841	42	137	0.253	ug/l #	24
30) Chloroform	7.965	83	919	0.286	ug/l #	78
31) Cyclohexane	8.224	56	2867	1.158	ug/l #	12
36) 1,1-Dichloropropene	8.224	75	11766	4.851	ug/l #	48
37) Ethyl Acetate	7.559	43	2272	1.110	ug/l #	78
38) Carbon Tetrachloride	8.224	117	15673	4.915	ug/l #	16
42) 1,2-Dichloroethane	8.688	62	720	0.271	ug/l #	74
43) Isopropyl Acetate	8.688	43	92187	20.791	ug/l #	87
45) 1,2-Dichloropropane	9.741	63	1414	0.817	ug/l #	44
48) Methyl methacrylate	9.659	41	2582	1.765	ug/l #	32
49) 1,4-Dioxane	9.735	88	53	1.532	ug/l #	1
51) 4-Methyl-2-Pentanone	10.441	43	7722	3.949	ug/l #	67
54) cis-1,3-Dichloropropene	10.353	75	35568	12.196	ug/l #	64
56) Ethyl methacrylate	10.982	69	1858	1.013	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	5209	1.719	ug/l #	42
59) 2-Hexanone	11.200	43	49863	35.003	ug/l #	56
74) N-amyl acetate	12.388	43	728	0.325	ug/l #	35
76) 1,2,3-Trichloropropane	12.847	75	53446	24.326	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	53446	64.314	ug/l #	16
95) Naphthalene	15.641	128	1579	0.324	ug/l #	69

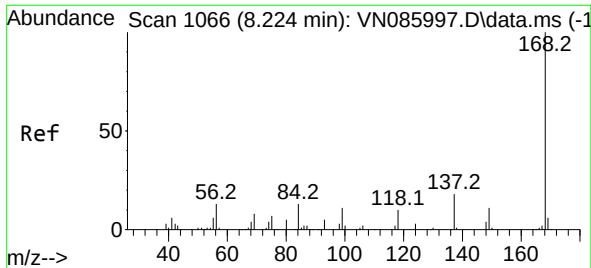
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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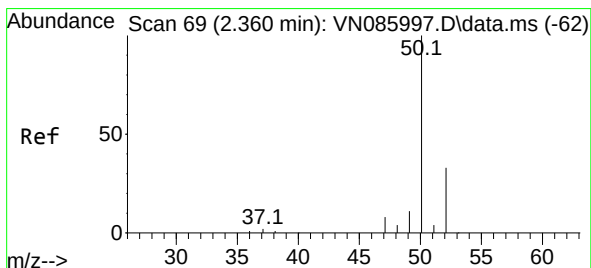
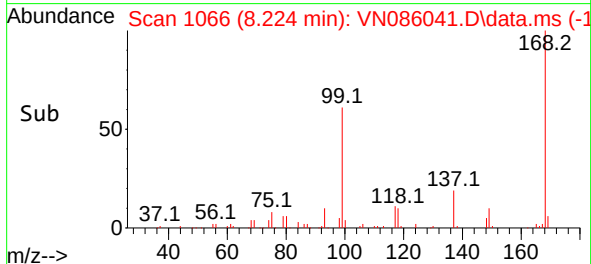
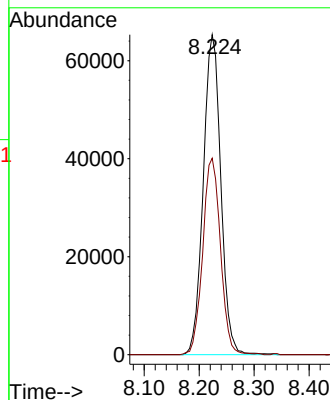
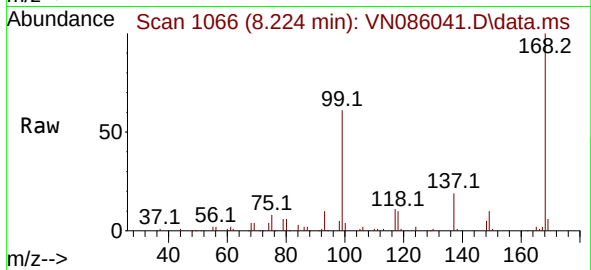




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN086041.D
Acq: 21 Mar 2025 15:41

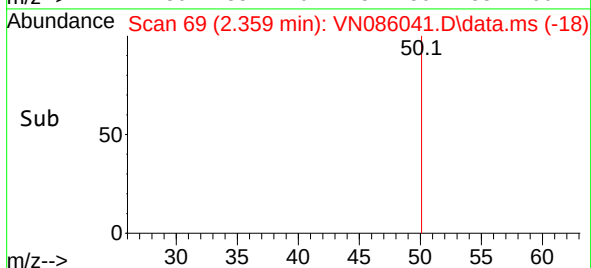
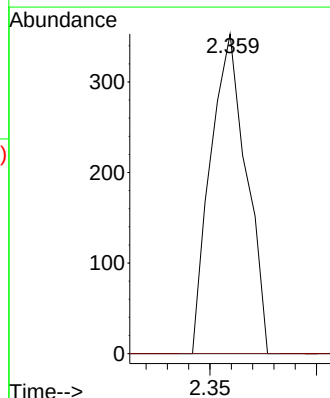
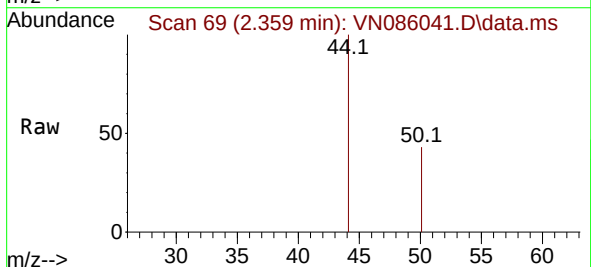
Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#01

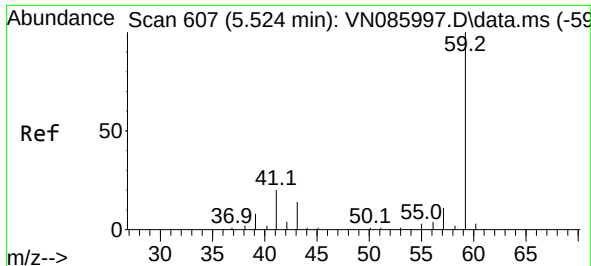
Tgt Ion:168 Resp: 145094
Ion Ratio Lower Upper
168 100
99 61.4 49.4 74.2



#3
Chloromethane
Concen: 0.245 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN086041.D
Acq: 21 Mar 2025 15:41

Tgt Ion: 50 Resp: 413
Ion Ratio Lower Upper
50 100
52 0.0 26.0 39.0#

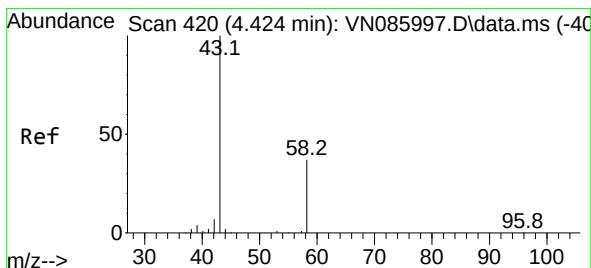
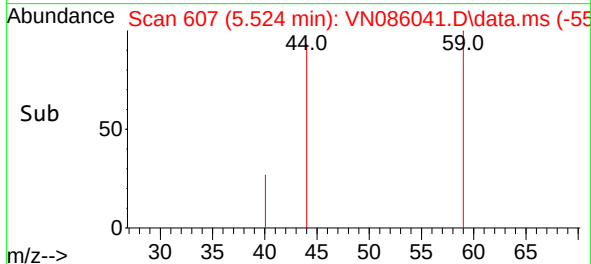
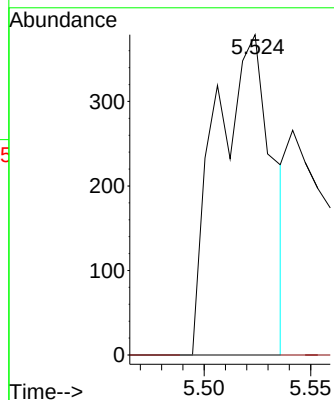
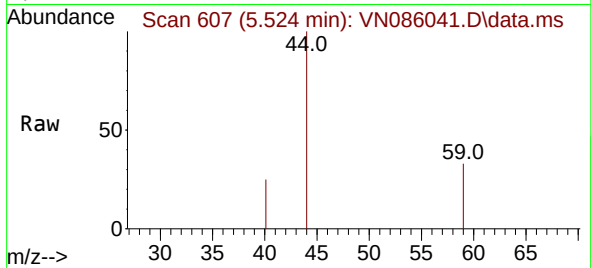




#11
Tert butyl alcohol
Concen: 2.478 ug/l
RT: 5.524 min Scan# 607
Delta R.T. -0.000 min
Lab File: VN086041.D
Acq: 21 Mar 2025 15:41

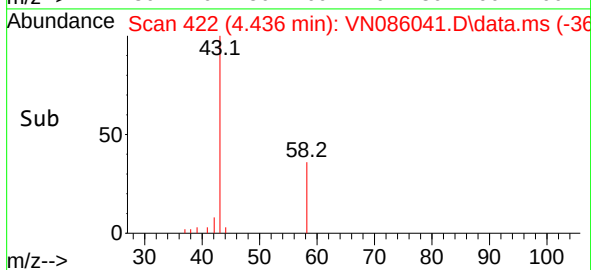
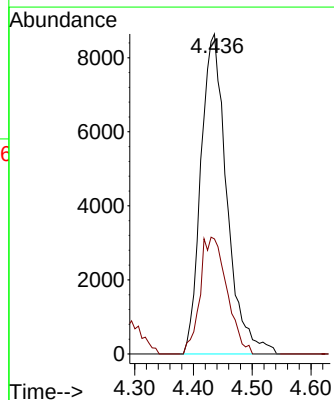
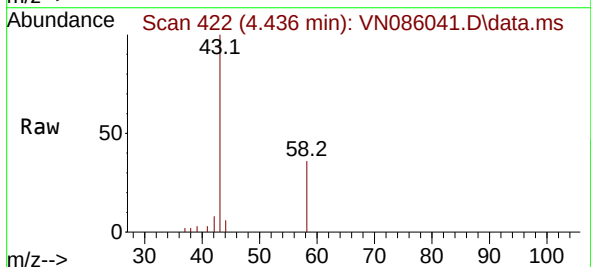
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MSVOA_N
ClientSampleId :
PB167234ZHE#01

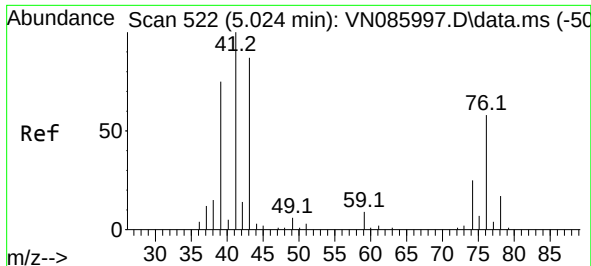
Tgt Ion: 59 Resp: 697
Ion Ratio Lower Upper
59 100
57 0.0 7.9 11.9#



#16
Acetone
Concen: 43.618 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.012 min
Lab File: VN086041.D
Acq: 21 Mar 2025 15:41

Tgt Ion: 43 Resp: 26476
Ion Ratio Lower Upper
43 100
58 35.9 29.4 44.2

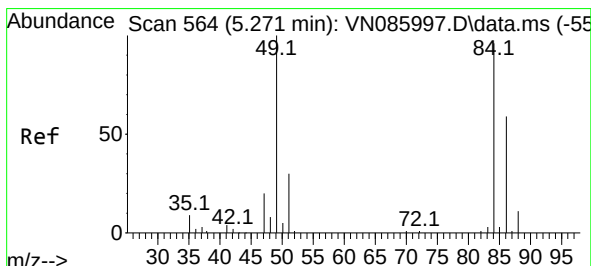
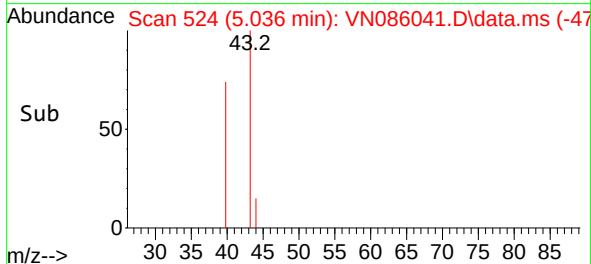
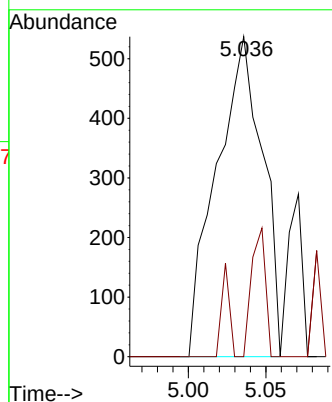
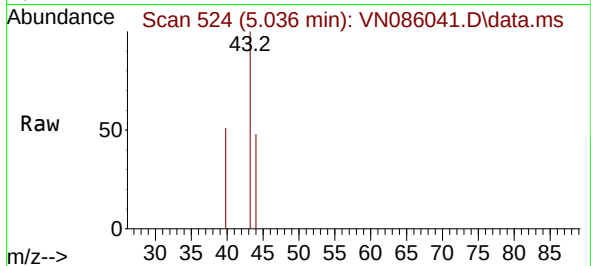




#18
Methyl Acetate
Concen: 0.737 ug/l
RT: 5.036 min Scan# 511
Delta R.T. 0.012 min
Lab File: VN086041.D
Acq: 21 Mar 2025 15:41

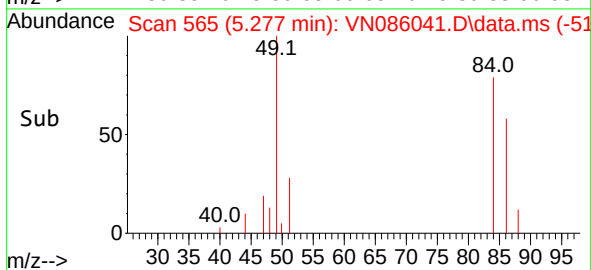
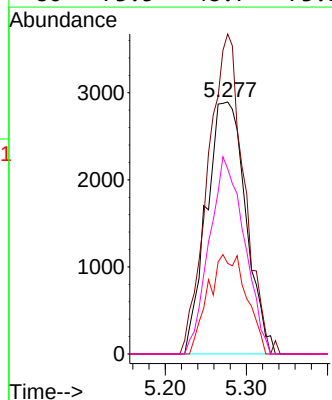
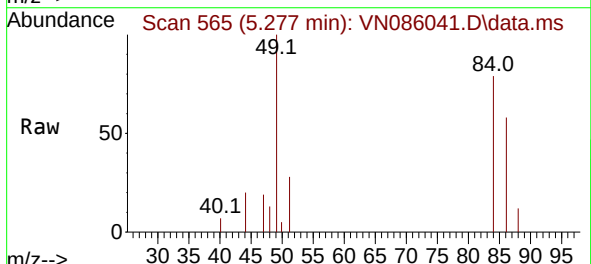
Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#01

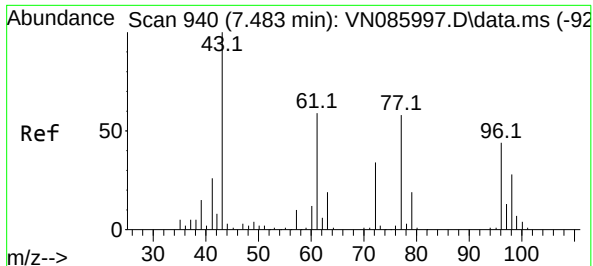
Tgt Ion: 43 Resp: 1107
Ion Ratio Lower Upper
43 100
74 12.2 23.9 35.9#



#20
Methylene Chloride
Concen: 5.496 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.006 min
Lab File: VN086041.D
Acq: 21 Mar 2025 15:41

Tgt Ion: 84 Resp: 9759
Ion Ratio Lower Upper
84 100
49 126.9 83.3 124.9#
51 36.0 24.8 37.2
86 73.5 48.7 73.1#

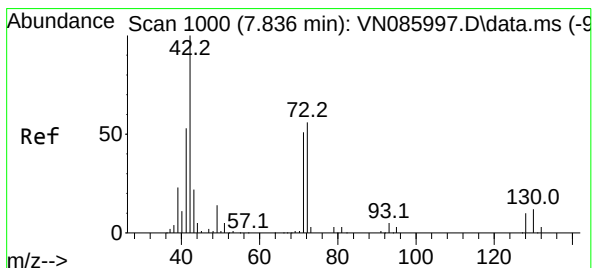
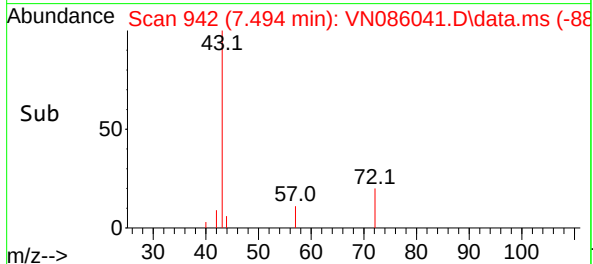
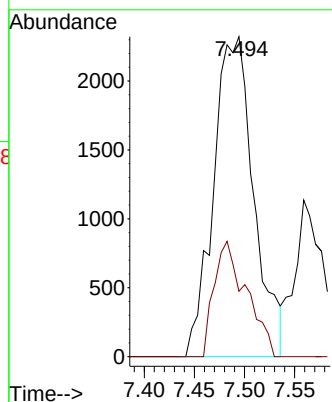
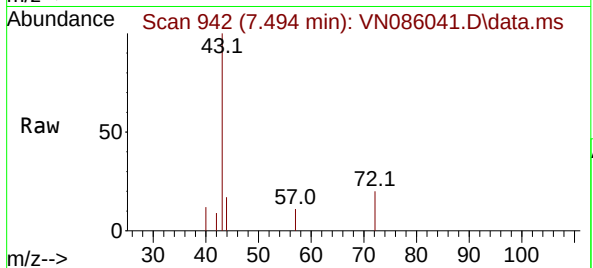




#25
2-Butanone
Concen: 7.404 ug/l
RT: 7.494 min Scan# 94
Delta R.T. 0.012 min
Lab File: VN086041.D
Acq: 21 Mar 2025 15:41

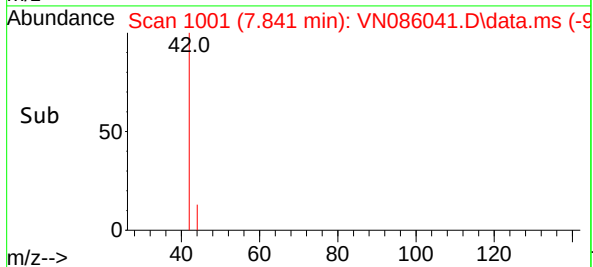
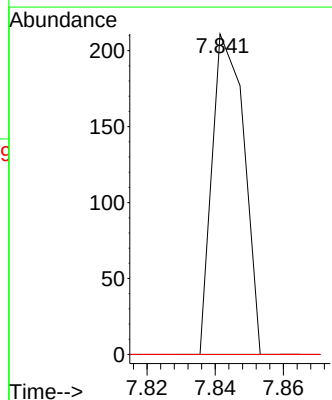
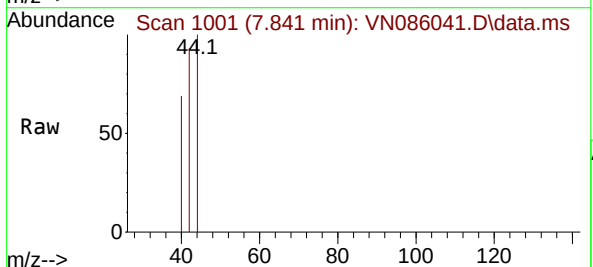
Instrument :
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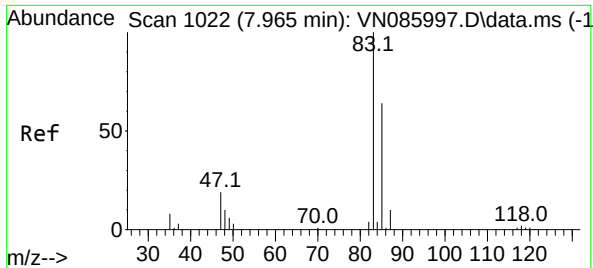
Tgt Ion: 43 Resp: 6485
Ion Ratio Lower Upper
43 100
72 20.5 27.4 41.0#



#29
Tetrahydrofuran
Concen: 0.253 ug/l
RT: 7.841 min Scan# 1001
Delta R.T. 0.006 min
Lab File: VN086041.D
Acq: 21 Mar 2025 15:41

Tgt Ion: 42 Resp: 137
Ion Ratio Lower Upper
42 100
72 0.0 45.0 67.4#
71 0.0 41.9 62.9#

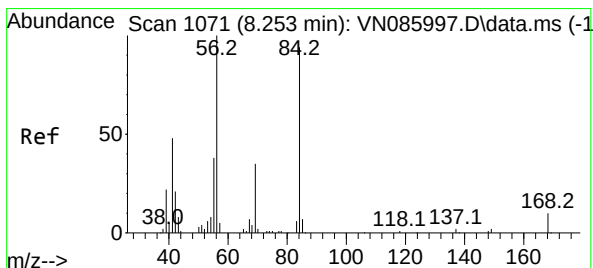
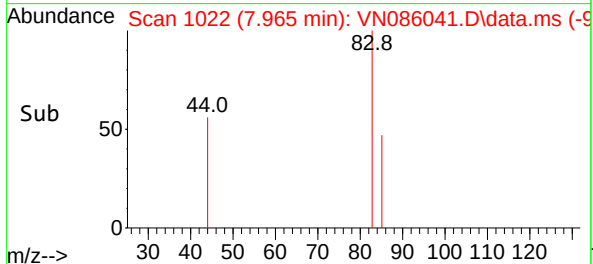
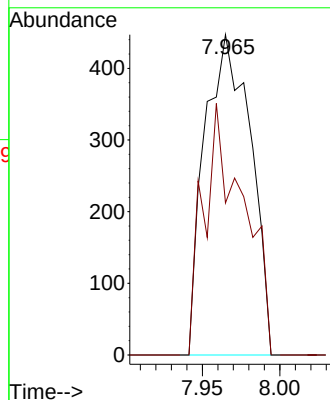
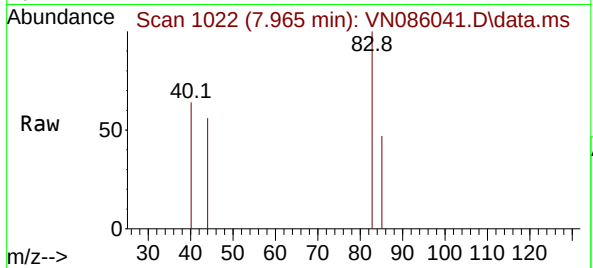




#30
Chloroform
Concen: 0.286 ug/l
RT: 7.965 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN086041.D
Acq: 21 Mar 2025 15:41

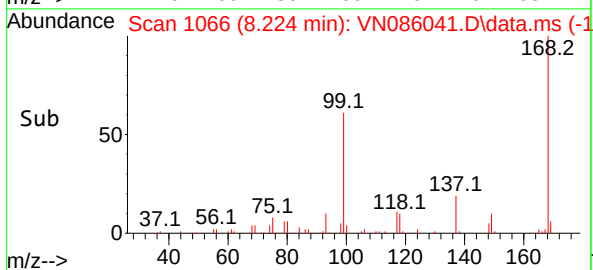
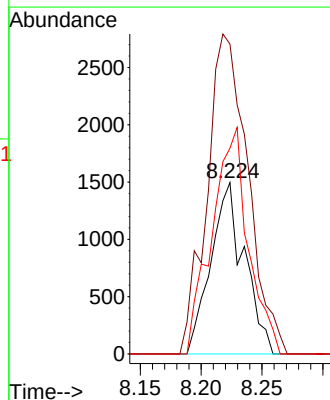
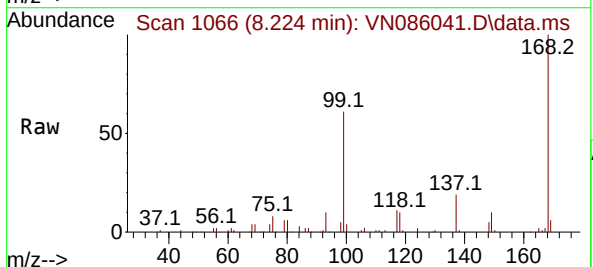
Instrument :
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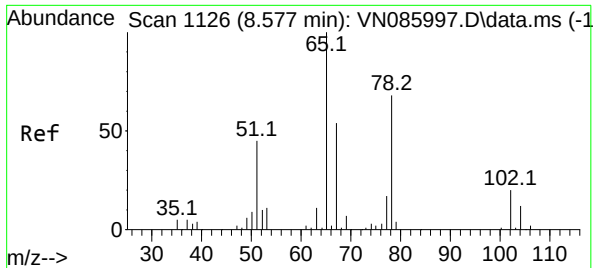
Tgt Ion: 83 Resp: 919
Ion Ratio Lower Upper
83 100
85 47.4 51.5 77.3#



#31
Cyclohexane
Concen: 1.158 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.030 min
Lab File: VN086041.D
Acq: 21 Mar 2025 15:41

Tgt Ion: 56 Resp: 2867
Ion Ratio Lower Upper
56 100
69 180.9 28.0 42.0#
84 120.1 75.0 112.6#





#33

1,2-Dichloroethane-d4

Concen: 56.485 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086041.D

Acq: 21 Mar 2025 15:41

Instrument :

MSVOA_N

ClientSampleId :

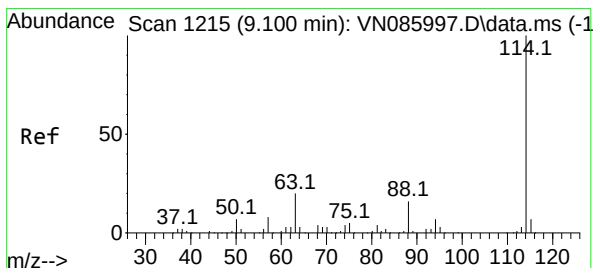
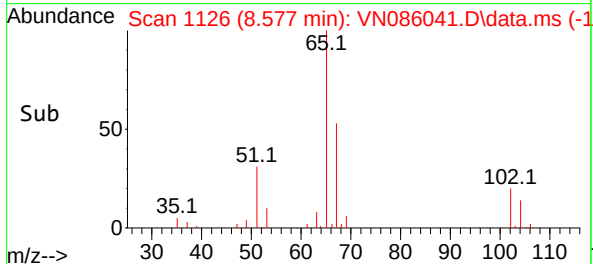
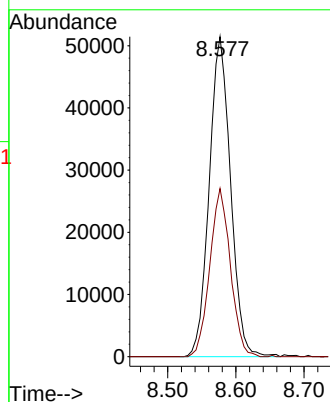
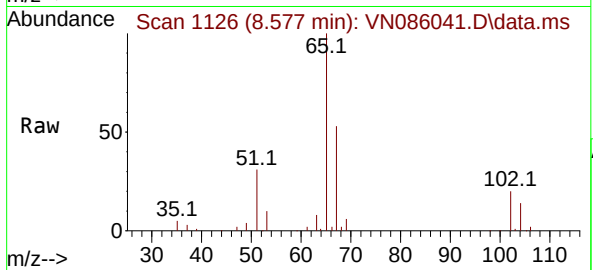
PB167234ZHE#01

Tgt Ion: 65 Resp: 112226

Ion Ratio Lower Upper

65 100

67 50.6 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: VN086041.D

Acq: 21 Mar 2025 15:41

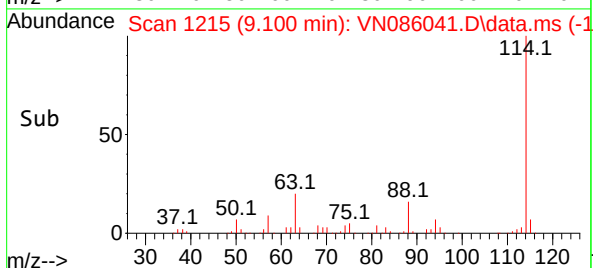
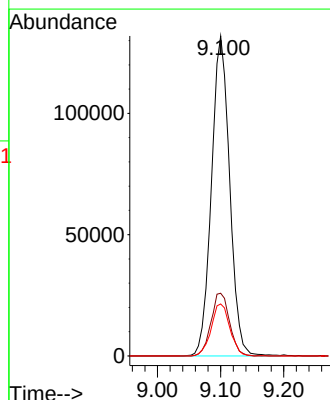
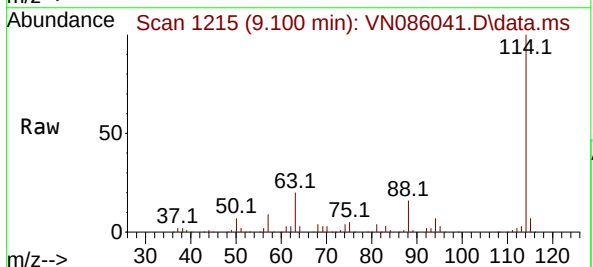
Tgt Ion: 114 Resp: 263894

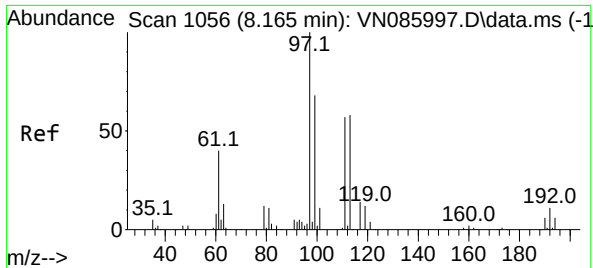
Ion Ratio Lower Upper

114 100

63 19.6 0.0 39.6

88 16.2 0.0 32.6

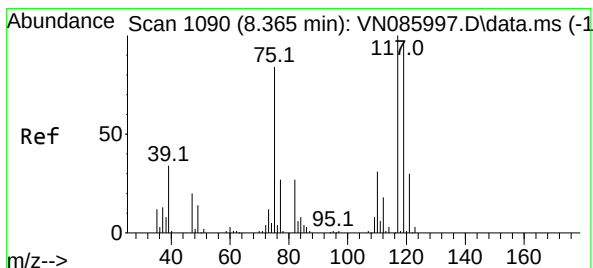
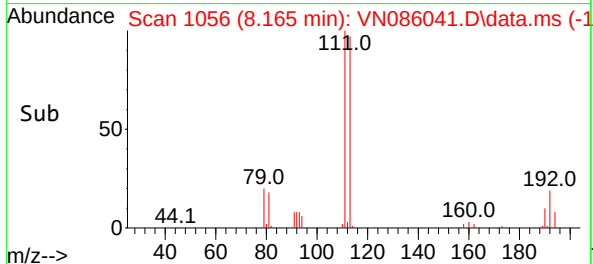
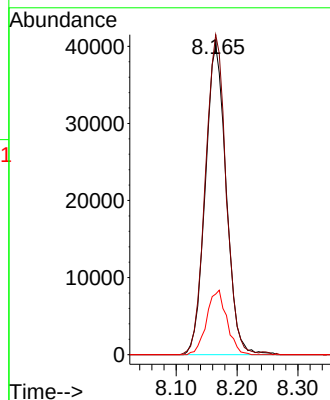
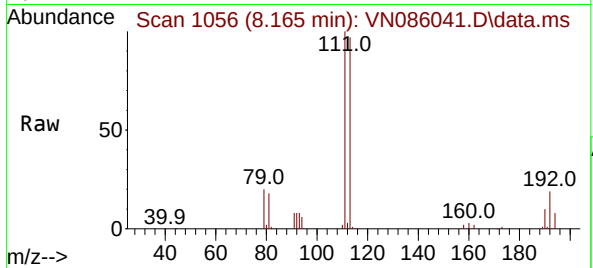




#35
Dibromofluoromethane
Concen: 51.983 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN086041.D
Acq: 21 Mar 2025 15:41

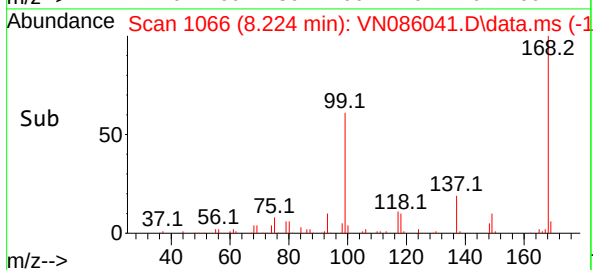
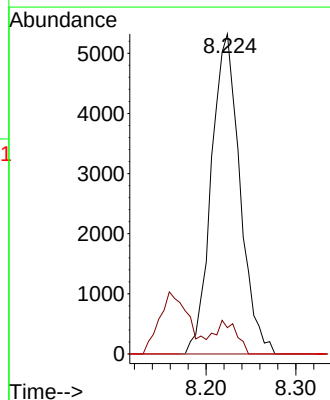
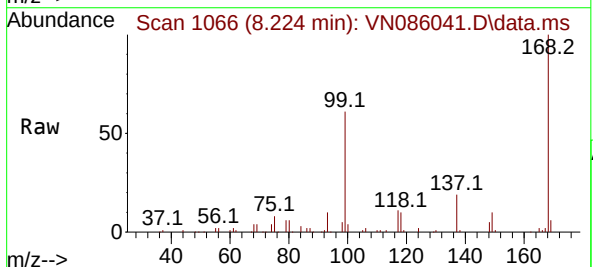
Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#01

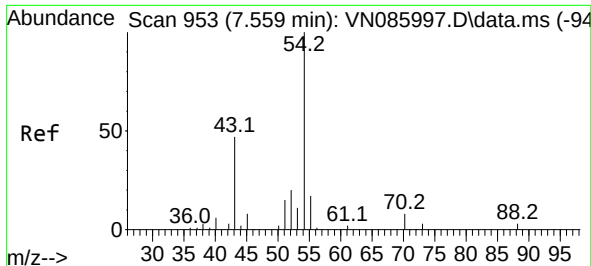
Tgt Ion:113 Resp: 95750
Ion Ratio Lower Upper
113 100
111 102.4 81.8 122.8
192 20.1 15.9 23.9



#36
1,1-Dichloropropene
Concen: 4.851 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.141 min
Lab File: VN086041.D
Acq: 21 Mar 2025 15:41

Tgt Ion: 75 Resp: 11766
Ion Ratio Lower Upper
75 100
110 7.9 17.8 53.3#
77 0.0 25.0 37.4#

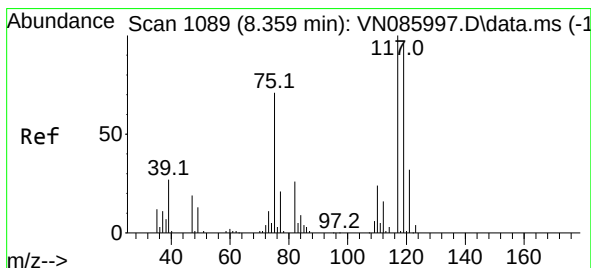
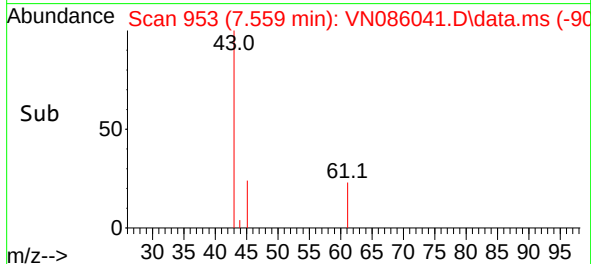
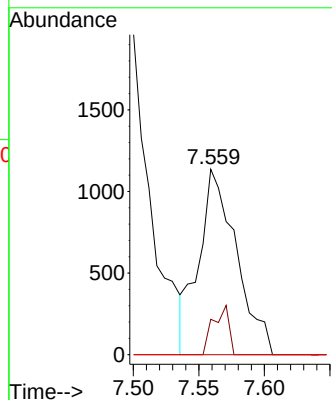
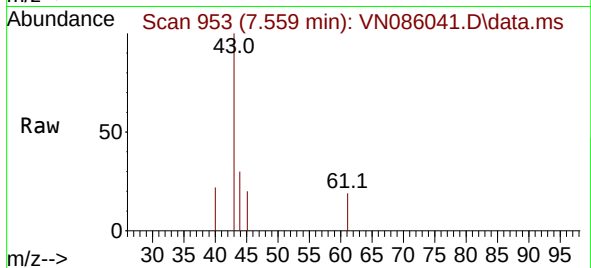




#37
Ethyl Acetate
Concen: 1.110 ug/l
RT: 7.559 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN086041.D
Acq: 21 Mar 2025 15:41

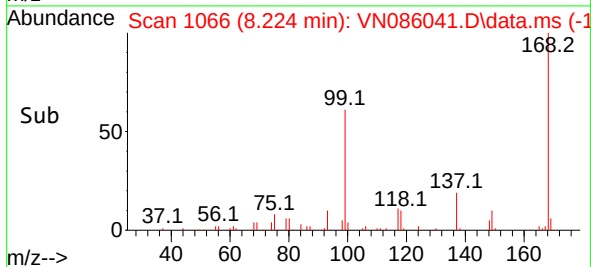
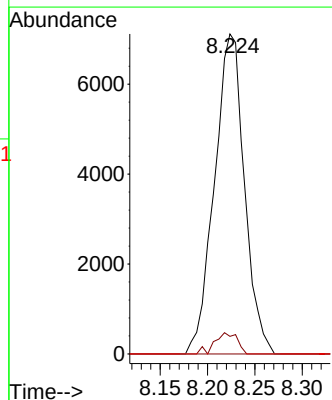
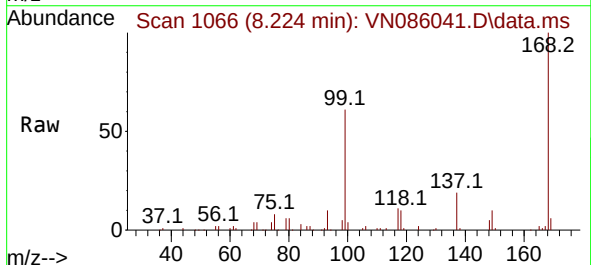
Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#01

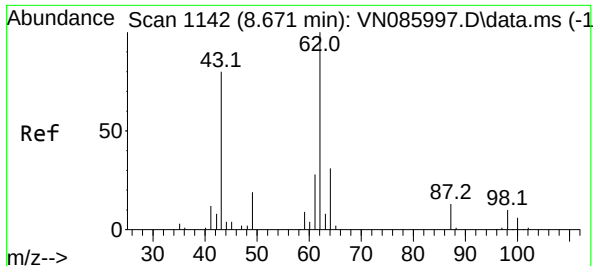
Tgt Ion: 43 Resp: 2272
Ion Ratio Lower Upper
43 100
61 11.1 13.0 19.4#
70 0.0 11.0 16.6#



#38
Carbon Tetrachloride
Concen: 4.915 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.135 min
Lab File: VN086041.D
Acq: 21 Mar 2025 15:41

Tgt Ion: 117 Resp: 15673
Ion Ratio Lower Upper
117 100
119 5.5 77.0 115.4#
121 0.0 25.6 38.4#





#42

1,2-Dichloroethane

Concen: 0.271 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.018 min

Lab File: VN086041.D

Acq: 21 Mar 2025 15:41

Instrument :

MSVOA_N

ClientSampleId :

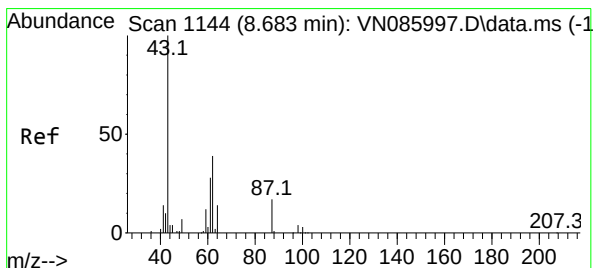
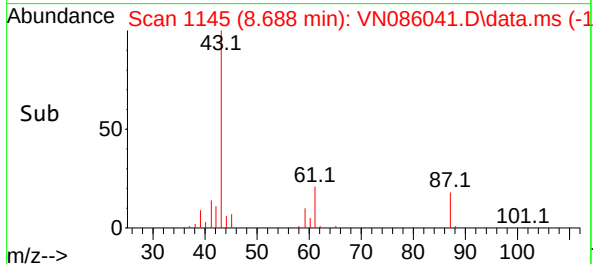
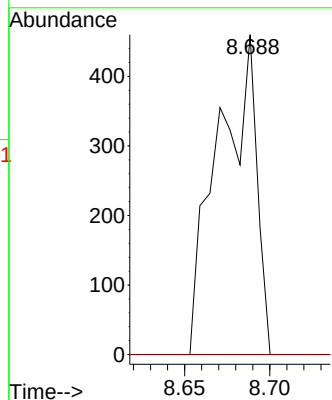
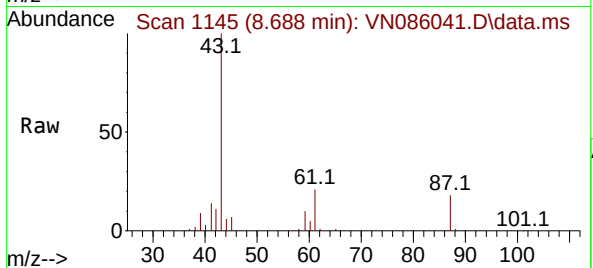
PB167234ZHE#01

Tgt Ion: 62 Resp: 720

Ion Ratio Lower Upper

62 100

98 0.0 0.0 18.6



#43

Isopropyl Acetate

Concen: 20.791 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.006 min

Lab File: VN086041.D

Acq: 21 Mar 2025 15:41

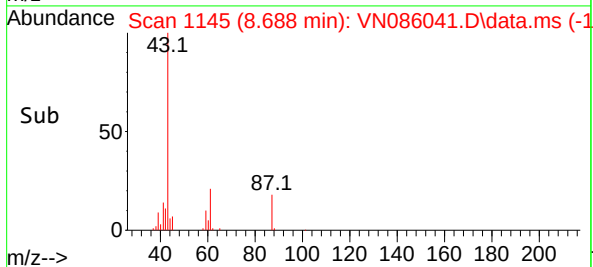
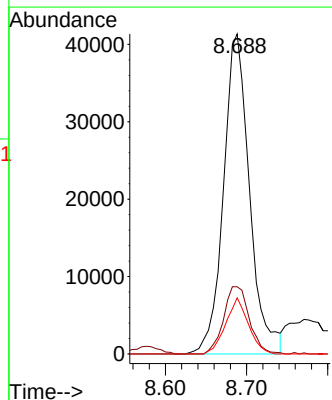
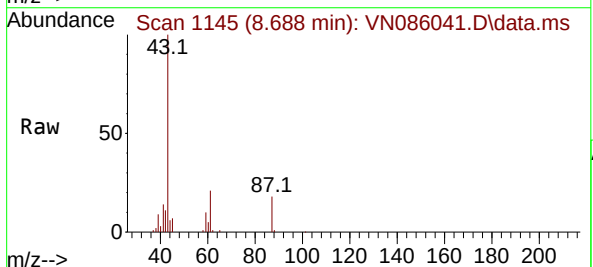
Tgt Ion: 43 Resp: 92187

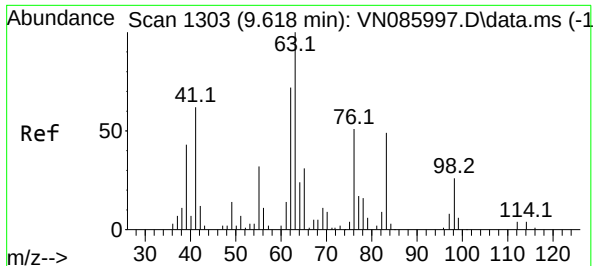
Ion Ratio Lower Upper

43 100

61 20.8 25.0 37.6

87 15.2 13.0 19.4





#45

1,2-Dichloropropane

Concen: 0.817 ug/l

RT: 9.741 min Scan# 11

Delta R.T. 0.123 min

Lab File: VN086041.D

Acq: 21 Mar 2025 15:41

Instrument :

MSVOA_N

ClientSampleId :

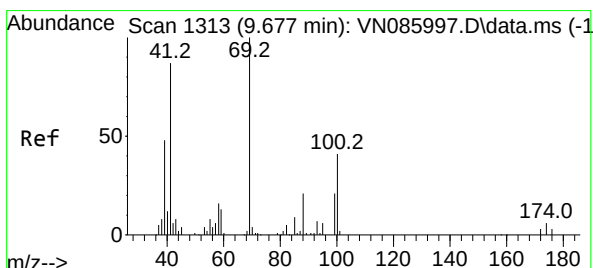
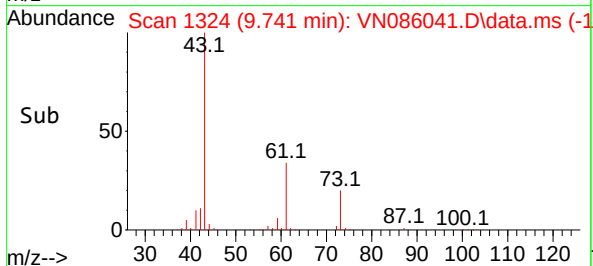
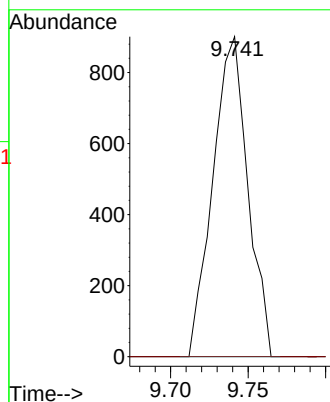
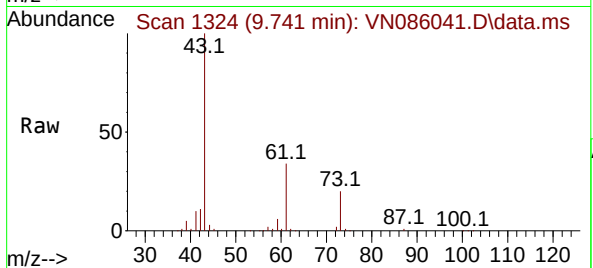
PB167234ZHE#01

Tgt Ion: 63 Resp: 1414

Ion Ratio Lower Upper

63 100

65 0.0 24.7 37.1#



#48

Methyl methacrylate

Concen: 1.765 ug/l

RT: 9.659 min Scan# 1310

Delta R.T. -0.018 min

Lab File: VN086041.D

Acq: 21 Mar 2025 15:41

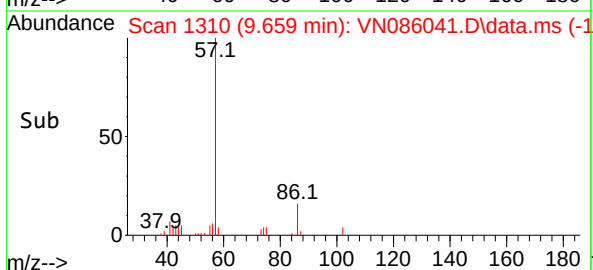
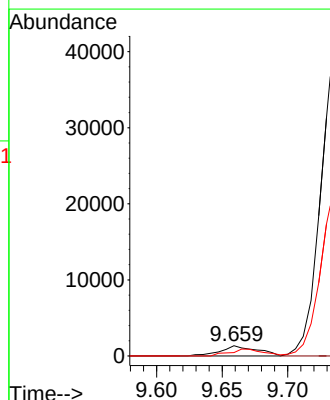
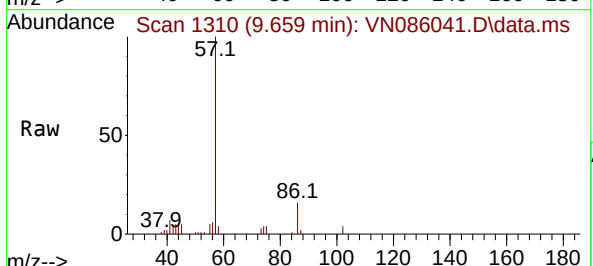
Tgt Ion: 41 Resp: 2582

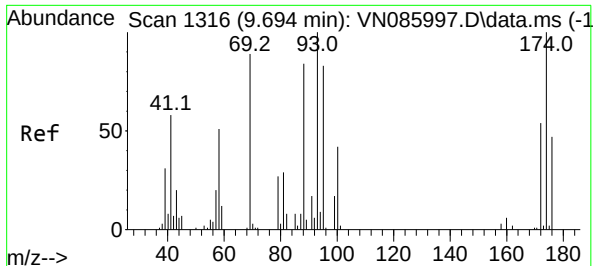
Ion Ratio Lower Upper

41 100

69 0.0 83.1 124.7#

39 62.0 45.6 68.4





#49

1,4-Dioxane

Concen: 1.532 ug/l

RT: 9.735 min Scan# 1

Delta R.T. 0.041 min

Lab File: VN086041.D

Acq: 21 Mar 2025 15:41

Instrument :

MSVOA_N

ClientSampleId :

PB167234ZHE#01

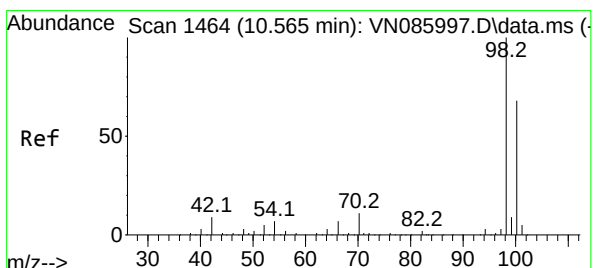
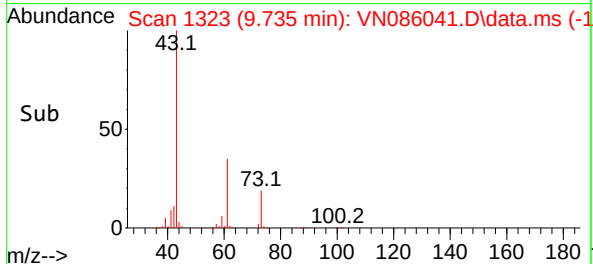
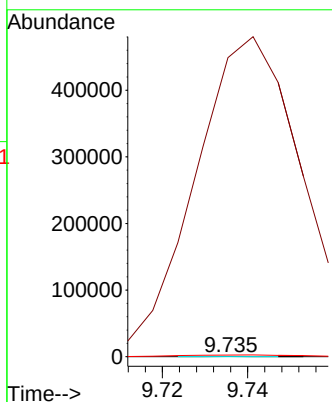
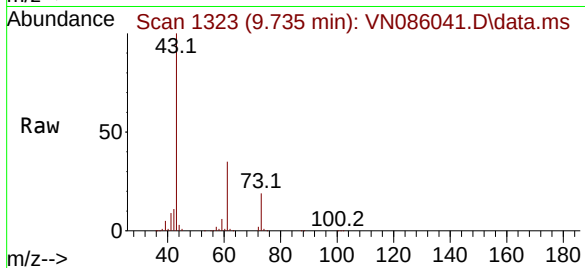
Tgt Ion: 88 Resp: 53

Ion Ratio Lower Upper

88 100

43 1624805.7 21.7 32.5#

58 10105.7 50.4 75.6#



#50

Toluene-d8

Concen: 52.931 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN086041.D

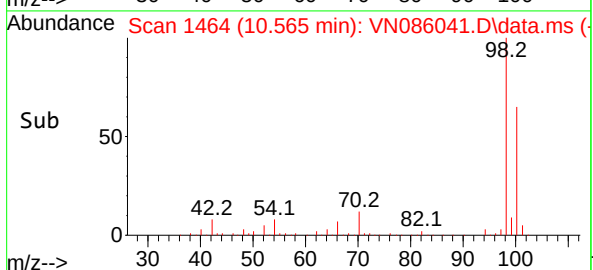
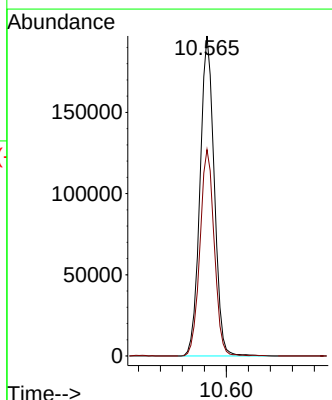
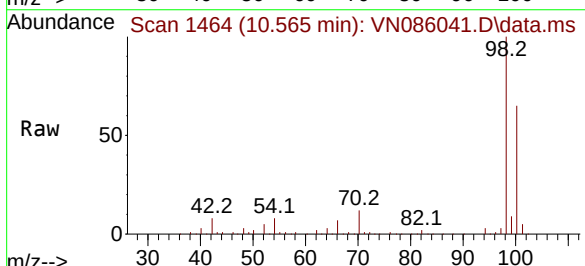
Acq: 21 Mar 2025 15:41

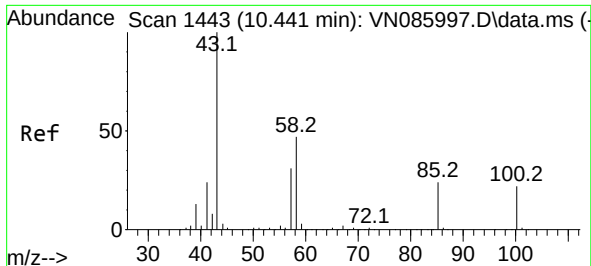
Tgt Ion: 98 Resp: 353841

Ion Ratio Lower Upper

98 100

100 64.7 53.1 79.7





#51

4-Methyl-2-Pentanone

Concen: 3.949 ug/l

RT: 10.441 min Scan# 1443

Delta R.T. -0.000 min

Lab File: VN086041.D

Acq: 21 Mar 2025 15:41

Instrument :

MSVOA_N

ClientSampleId :

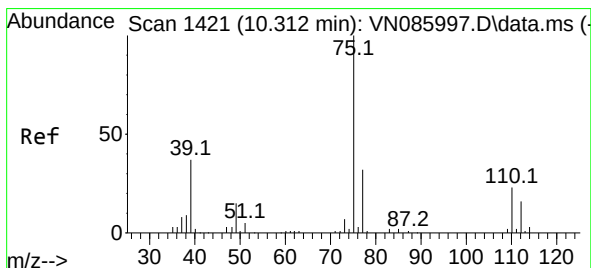
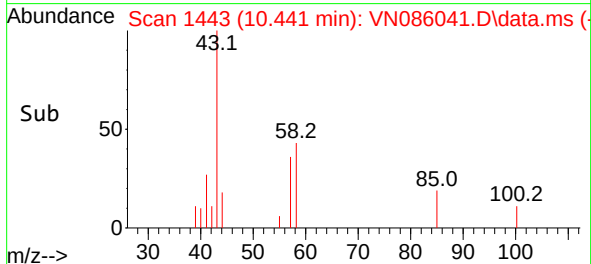
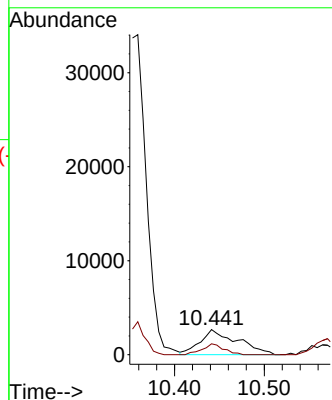
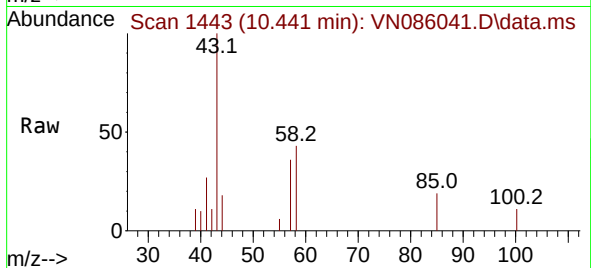
PB167234ZHE#01

Tgt Ion: 43 Resp: 7722

Ion Ratio Lower Upper

43 100

58 24.8 37.4 56.0#



#54

cis-1,3-Dichloropropene

Concen: 12.196 ug/l

RT: 10.353 min Scan# 1428

Delta R.T. 0.041 min

Lab File: VN086041.D

Acq: 21 Mar 2025 15:41

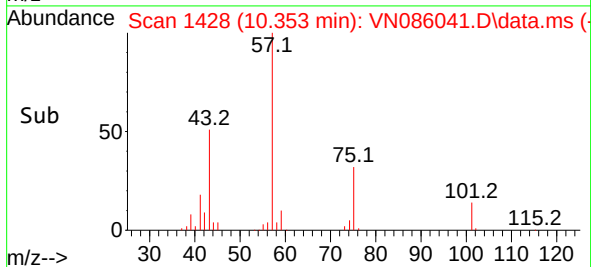
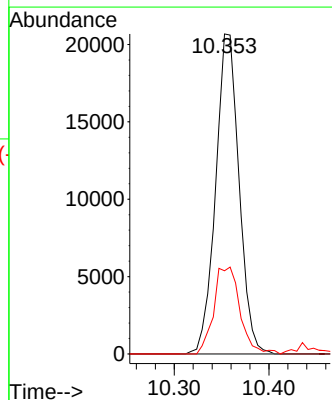
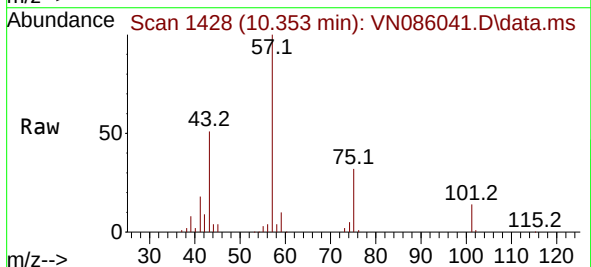
Tgt Ion: 75 Resp: 35568

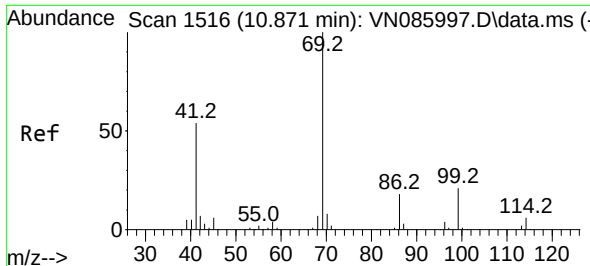
Ion Ratio Lower Upper

75 100

77 0.0 25.3 37.9#

39 26.0 29.6 44.4#

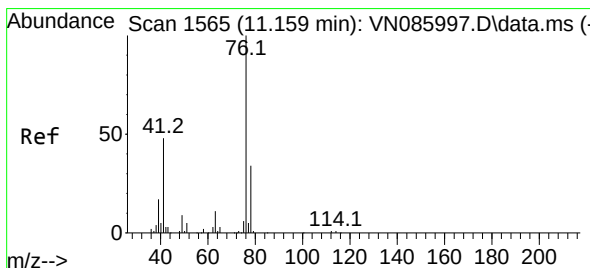
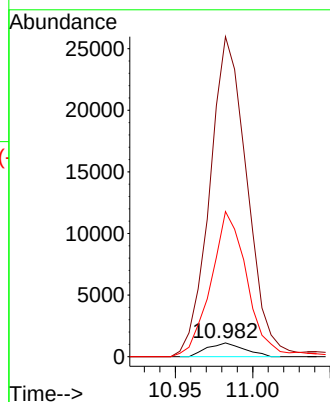
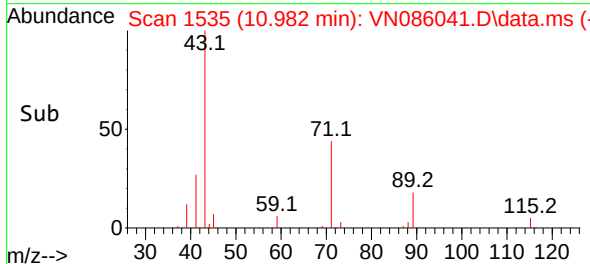
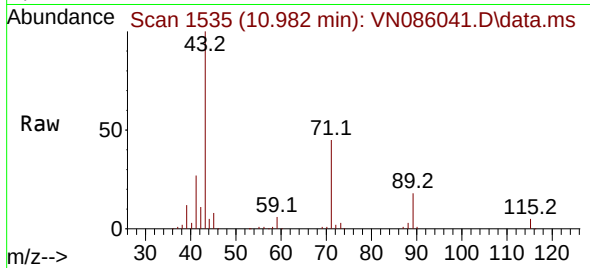




#56
Ethyl methacrylate
Concen: 1.013 ug/l
RT: 10.982 min Scan# 11
Delta R.T. 0.111 min
Lab File: VN086041.D
Acq: 21 Mar 2025 15:41

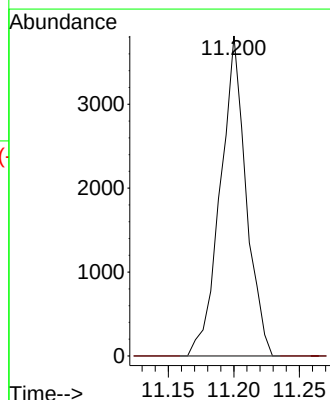
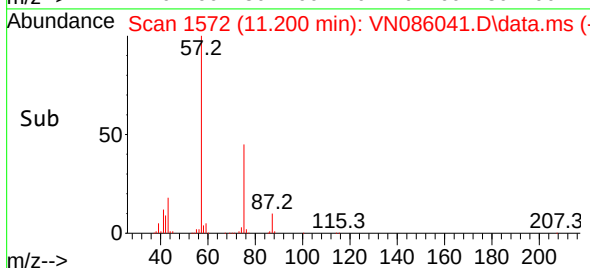
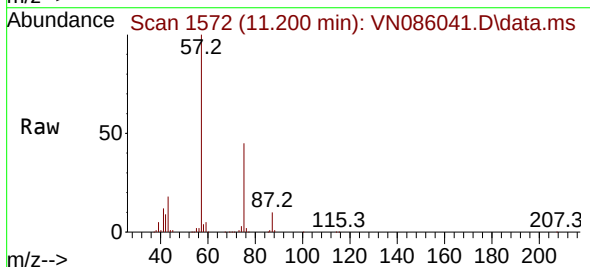
Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#01

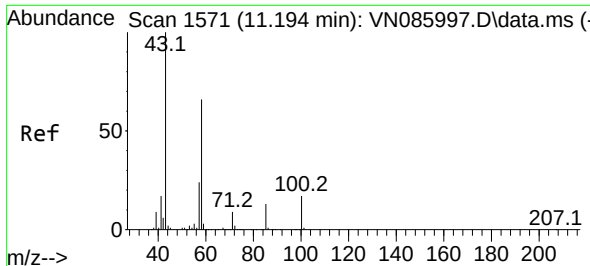
Tgt Ion: 69 Resp: 1858
Ion Ratio Lower Upper
69 100
41 2344.5 41.6 62.4#
39 1040.3 21.8 32.8#



#57
1,3-Dichloropropane
Concen: 1.719 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.041 min
Lab File: VN086041.D
Acq: 21 Mar 2025 15:41

Tgt Ion: 76 Resp: 5209
Ion Ratio Lower Upper
76 100
78 0.0 25.8 38.6#

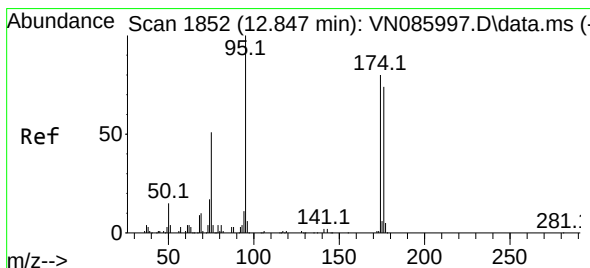
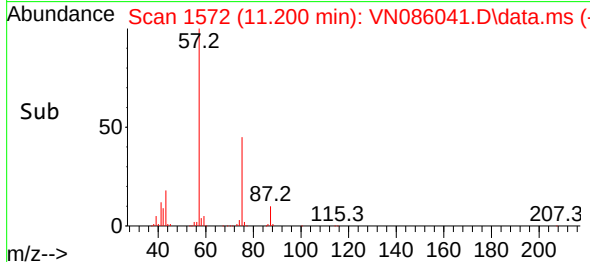
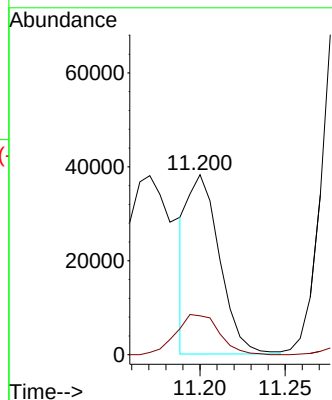
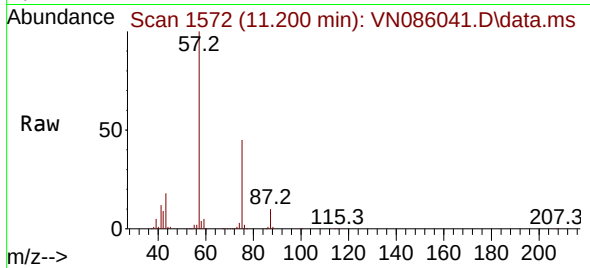




#59
2-Hexanone
Concen: 35.003 ug/l
RT: 11.200 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN086041.D
Acq: 21 Mar 2025 15:41

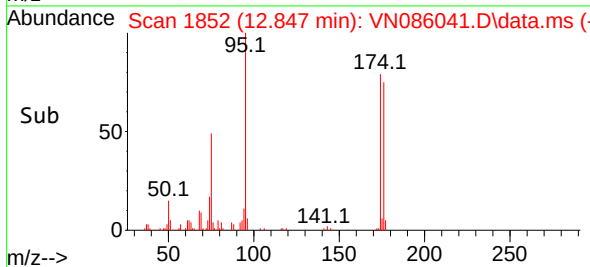
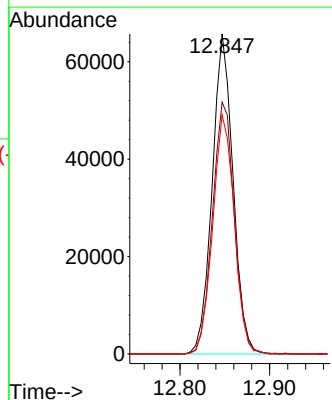
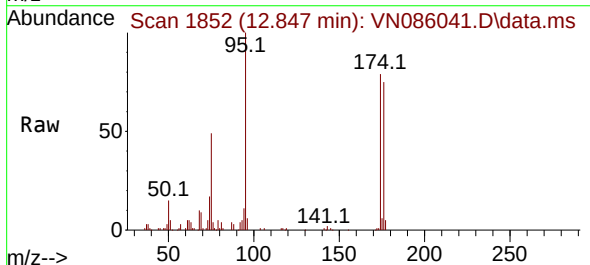
Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#01

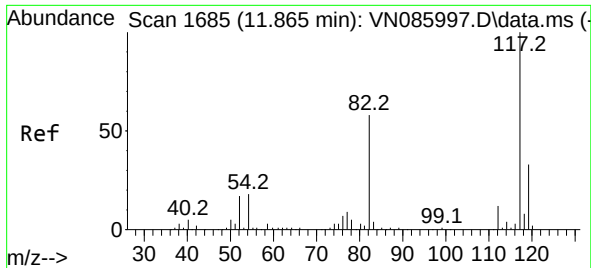
Tgt Ion: 43 Resp: 49863
Ion Ratio Lower Upper
43 100
58 30.3 32.4 97.2#



#62
4-Bromofluorobenzene
Concen: 44.423 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086041.D
Acq: 21 Mar 2025 15:41

Tgt Ion: 95 Resp: 105907
Ion Ratio Lower Upper
95 100
174 82.9 0.0 156.8
176 77.2 0.0 152.2

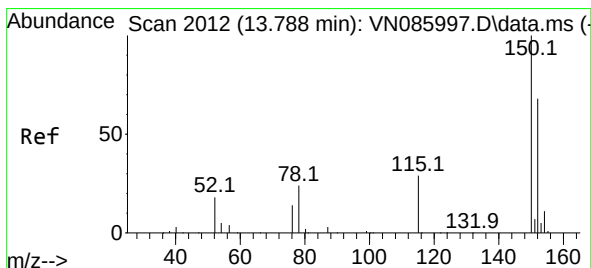
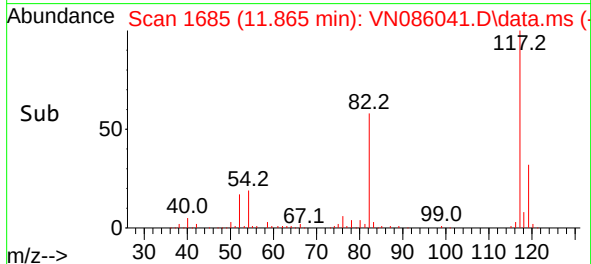
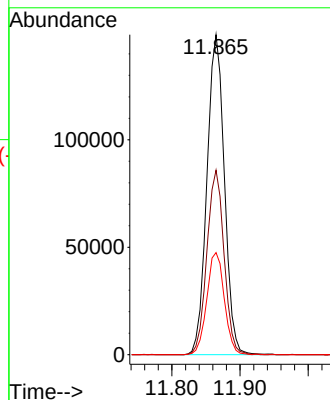
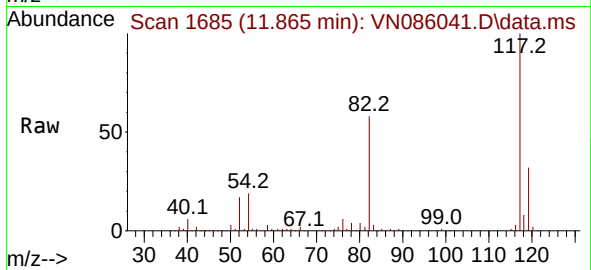




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086041.D
Acq: 21 Mar 2025 15:41

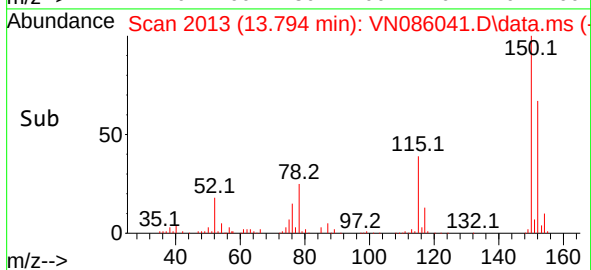
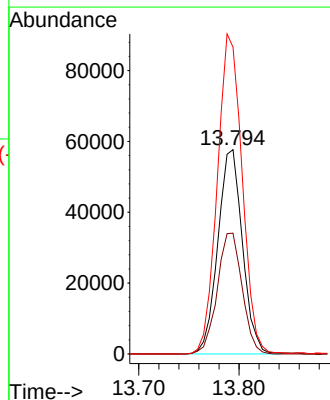
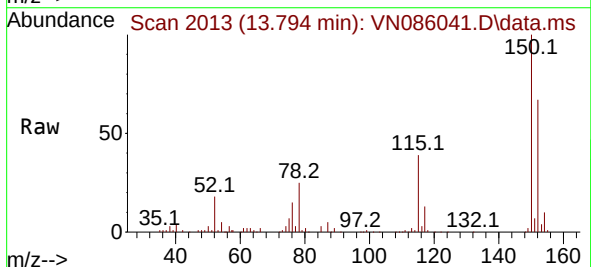
Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#01

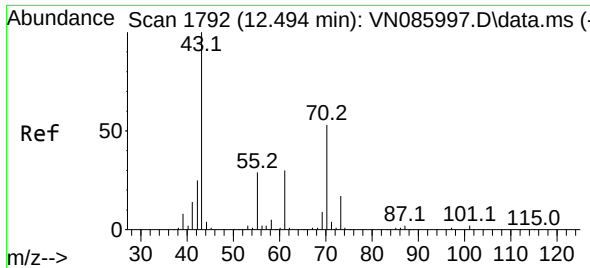
Tgt Ion:117 Resp: 265504
Ion Ratio Lower Upper
117 100
82 57.7 46.7 70.1
119 31.9 26.5 39.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.006 min
Lab File: VN086041.D
Acq: 21 Mar 2025 15:41

Tgt Ion:152 Resp: 98136
Ion Ratio Lower Upper
152 100
115 59.7 31.1 93.2
150 157.9 0.0 359.6

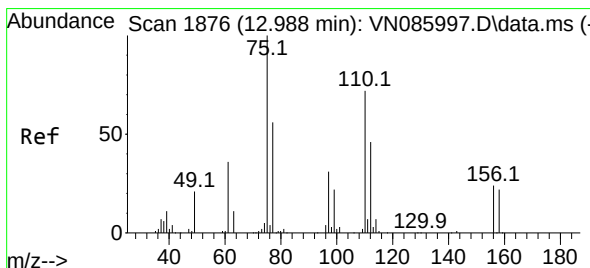
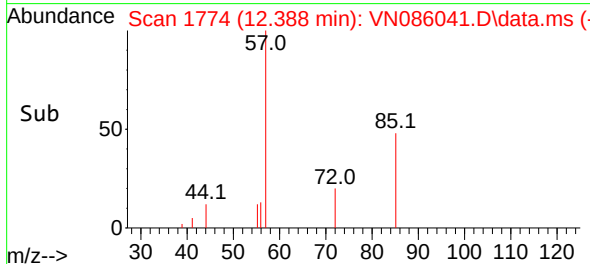
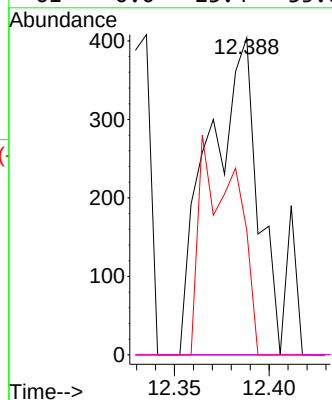
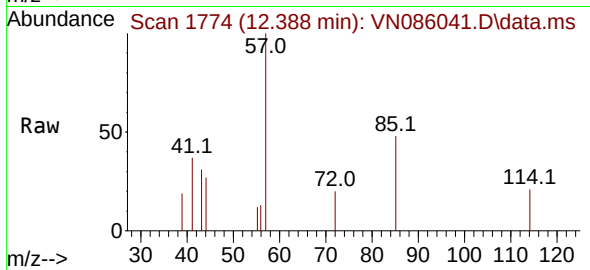




#74
N-amy1 acetate
Concen: 0.325 ug/l
RT: 12.388 min Scan# 1774
Delta R.T. -0.106 min
Lab File: VN086041.D
Acq: 21 Mar 2025 15:41

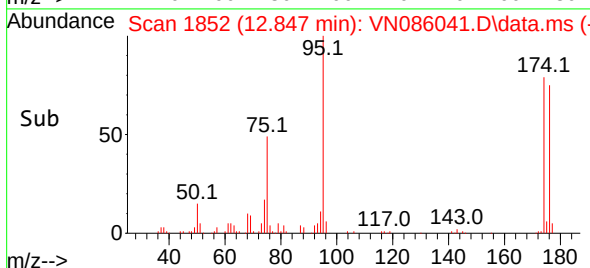
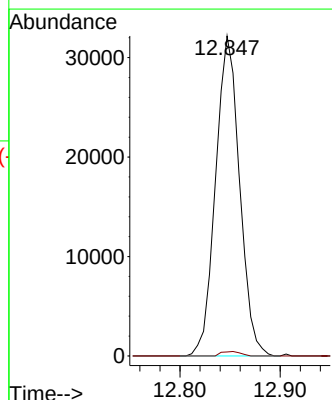
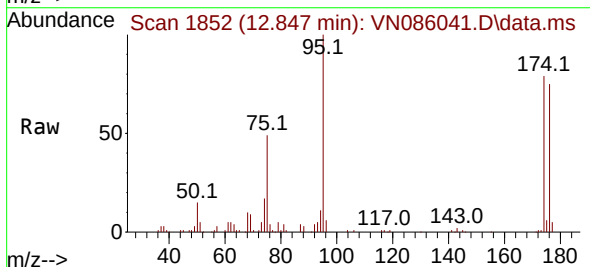
Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#01

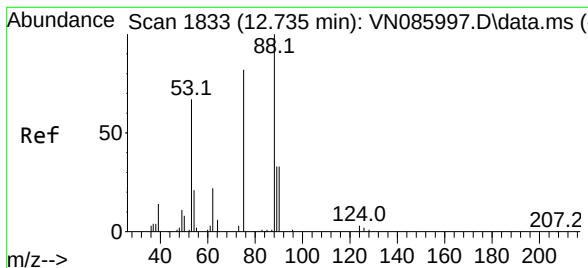
Tgt Ion: 43	Resp: 728
Ion Ratio	Lower Upper
43 100	
70 0.0	43.0 64.4#
55 0.0	23.8 35.8#
61 0.0	23.4 35.0#



#76
1,2,3-Trichloropropane
Concen: 24.326 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN086041.D
Acq: 21 Mar 2025 15:41

Tgt Ion: 75	Resp: 53446
Ion Ratio	Lower Upper
75 100	
77 1.1	83.7 251.0#

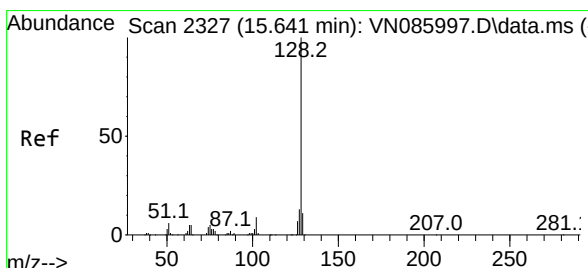
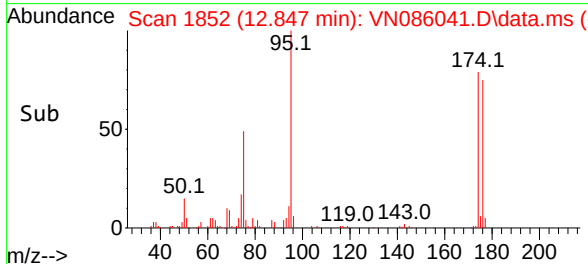
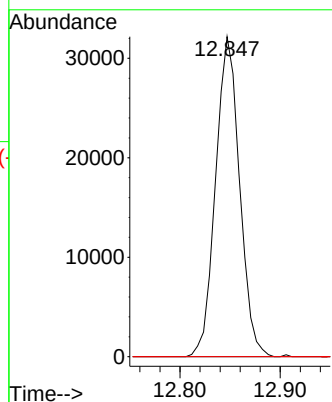
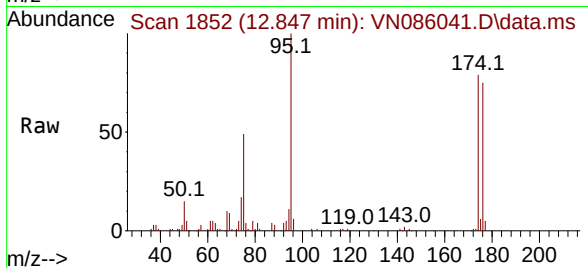




#81
trans-1,4-Dichloro-2-butene
Concen: 64.314 ug/l
RT: 12.847 min Scan# 1833
Delta R.T. 0.112 min
Lab File: VN086041.D
Acq: 21 Mar 2025 15:41

Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#01

Tgt Ion: 75 Resp: 53446
Ion Ratio Lower Upper
75 100
53 0.0 66.0 99.0#
89 0.0 36.9 55.3#



#95
Naphthalene
Concen: 0.324 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. -0.000 min
Lab File: VN086041.D
Acq: 21 Mar 2025 15:41

Tgt Ion: 128 Resp: 1579
Ion Ratio Lower Upper
128 100
127 0.0 10.2 15.4#
129 0.0 9.0 13.6#

