

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022125\
 Data File : VN085809.D
 Acq On : 21 Feb 2025 17:51
 Operator : JC\MD
 Sample : PB166809ZHE#02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB166809ZHE#02

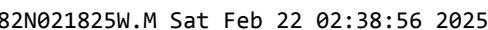
Quant Time: Feb 22 02:38:46 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 2025
 Response via : Initial Calibration

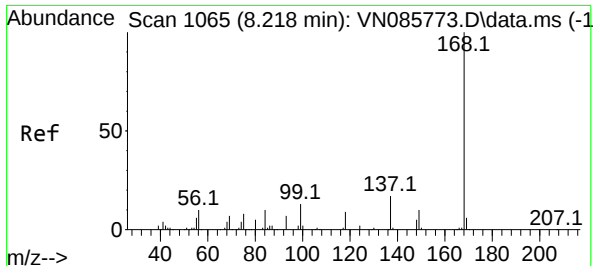
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.224	168	243149	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	466435	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	455752	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	165289	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	187160	59.372	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 118.740%			
35) Dibromofluoromethane	8.165	113	164151	53.783	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 107.560%			
50) Toluene-d8	10.565	98	624813	56.266	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 112.540%			
62) 4-Bromofluorobenzene	12.847	95	185459	50.690	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 101.380%			
Target Compounds						
					Qvalue	
5) Bromomethane	2.965	94	558	0.248	ug/l	87
11) Tert butyl alcohol	5.506	59	156	0.402	ug/l #	72
16) Acetone	4.430	43	34805	34.894	ug/l	92
18) Methyl Acetate	5.024	43	2545	0.742	ug/l #	81
20) Methylene Chloride	5.277	84	5211	1.625	ug/l #	91
25) 2-Butanone	7.477	43	3377	2.301	ug/l #	78
28) Bromochloromethane	7.971	49	950	0.430	ug/l #	9
30) Chloroform	7.959	83	14310	2.546	ug/l	99
31) Cyclohexane	8.218	56	5312	1.180	ug/l #	1
36) 1,1-Dichloropropene	8.218	75	20439	4.732	ug/l #	51
37) Ethyl Acetate	7.553	43	4373	1.230	ug/l #	91
38) Carbon Tetrachloride	8.224	117	25952	5.056	ug/l #	19
42) 1,2-Dichloroethane	8.688	62	1165	0.258	ug/l #	73
43) Isopropyl Acetate	8.683	43	180421	28.687	ug/l #	88
45) 1,2-Dichloropropane	9.741	63	2416	0.723	ug/l #	43
48) Methyl methacrylate	9.735	41	161134	61.036	ug/l #	36
49) 1,4-Dioxane	9.735	88	111	2.211	ug/l #	1
51) 4-Methyl-2-Pentanone	10.441	43	6569	1.917	ug/l	91
53) t-1,3-Dichloropropene	10.729	75	1402	0.301	ug/l #	43
54) cis-1,3-Dichloropropene	10.353	75	65168	12.744	ug/l #	64
56) Ethyl methacrylate	10.982	69	3342	1.263	ug/l #	1
57) 1,3-Dichloropropane	11.194	76	9803	1.820	ug/l #	42
59) 2-Hexanone	11.165	43	144350	61.223	ug/l #	21
70) Styrene	12.406	104	77	0.592	ug/l #	26
74) N-amyl acetate	12.482	43	1552	0.389	ug/l #	41
76) 1,2,3-Trichloropropane	12.847	75	90815	24.734	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	90815	72.169	ug/l #	13
86) p-Isopropyltoluene	13.729	119	54	0.631	ug/l #	50

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

Quant Time: Feb 22 02:38:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

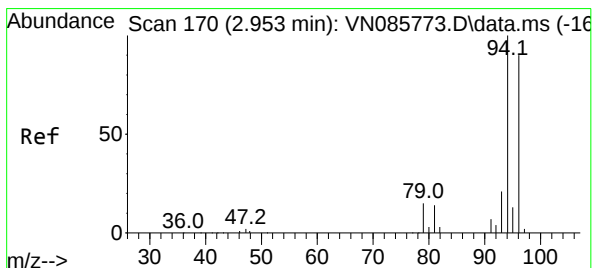
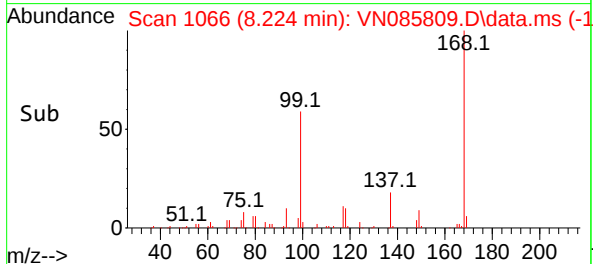
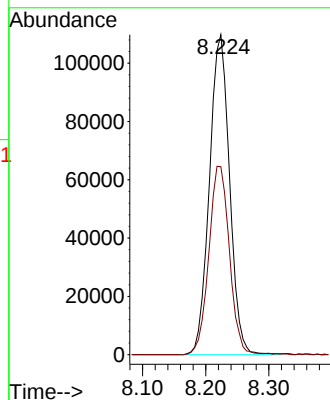
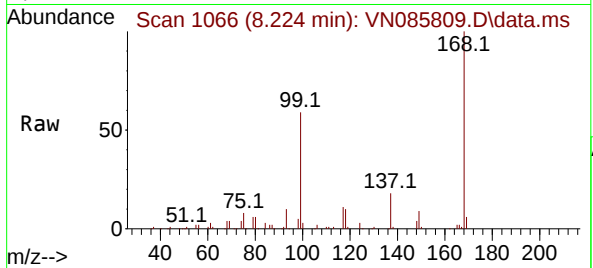




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN085809.D
Acq: 21 Feb 2025 17:51

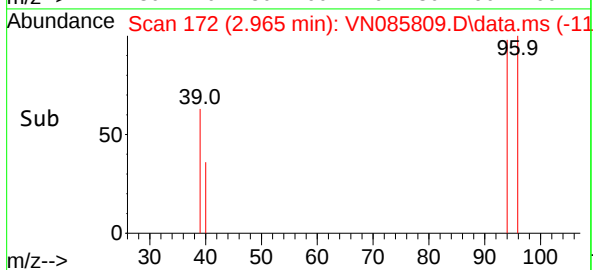
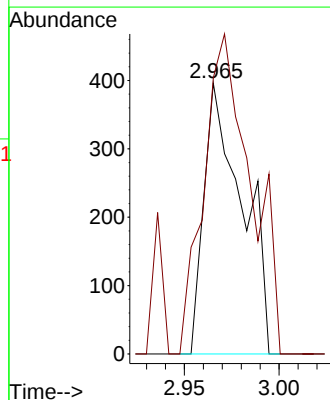
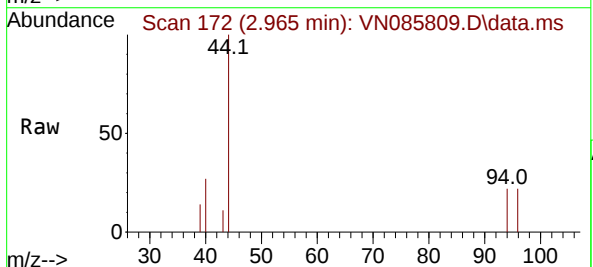
Instrument :
MSVOA_N
ClientSampleId :
PB166809ZHE#02

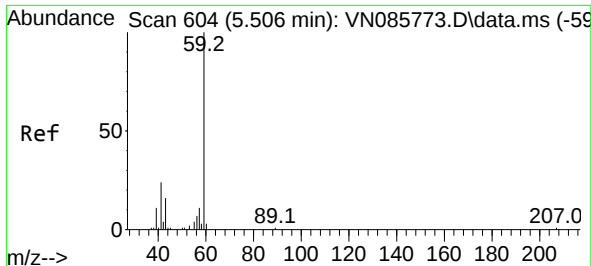
Tgt Ion:168 Resp: 243149
Ion Ratio Lower Upper
168 100
99 58.7 47.9 71.9



#5
Bromomethane
Concen: 0.248 ug/l
RT: 2.965 min Scan# 172
Delta R.T. 0.012 min
Lab File: VN085809.D
Acq: 21 Feb 2025 17:51

Tgt Ion: 94 Resp: 558
Ion Ratio Lower Upper
94 100
96 102.0 71.7 107.5

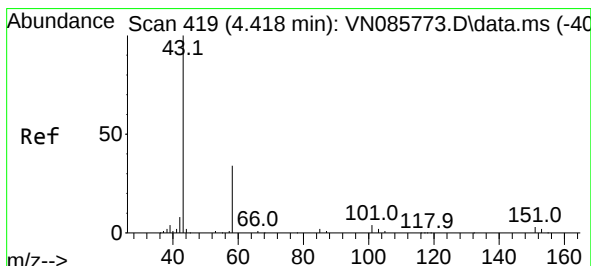
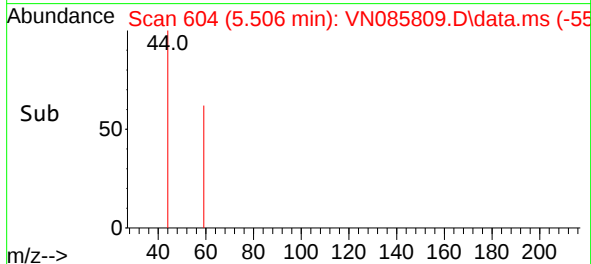
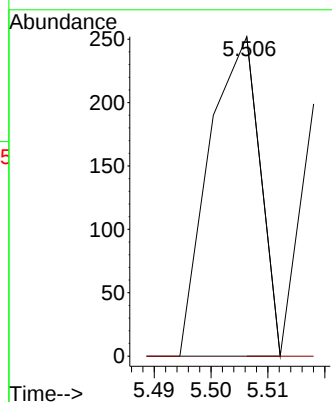
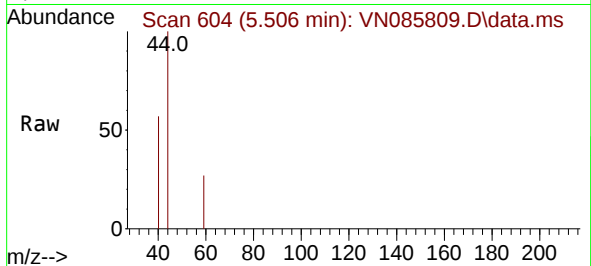




#11
Tert butyl alcohol
Concen: 0.402 ug/l
RT: 5.506 min Scan# 604
Delta R.T. 0.000 min
Lab File: VN085809.D
Acq: 21 Feb 2025 17:51

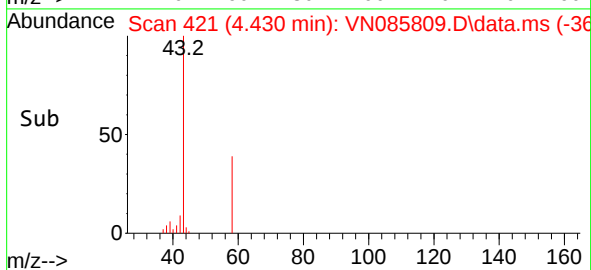
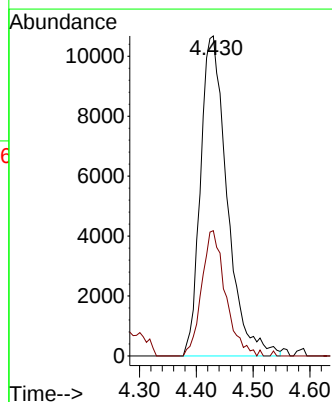
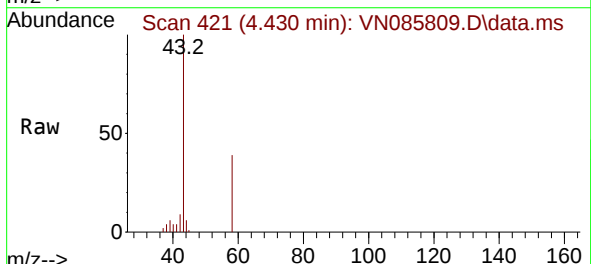
Instrument :
MSVOA_N
ClientSampleId :
PB166809ZHE#02

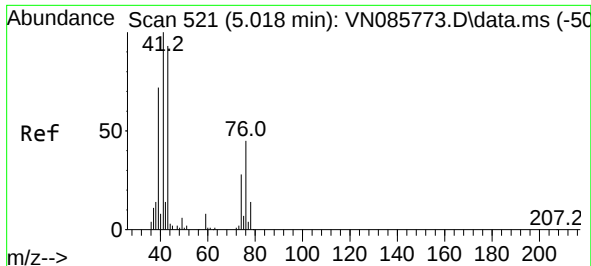
Tgt Ion: 59 Resp: 156
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



#16
Acetone
Concen: 34.894 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.012 min
Lab File: VN085809.D
Acq: 21 Feb 2025 17:51

Tgt Ion: 43 Resp: 34805
Ion Ratio Lower Upper
43 100
58 39.1 27.5 41.3

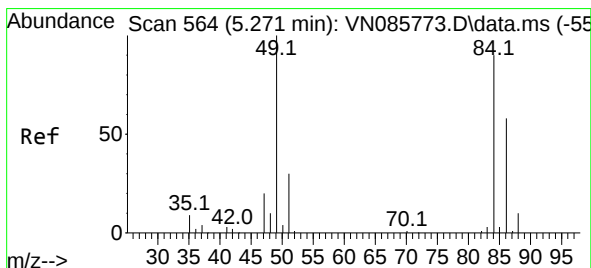
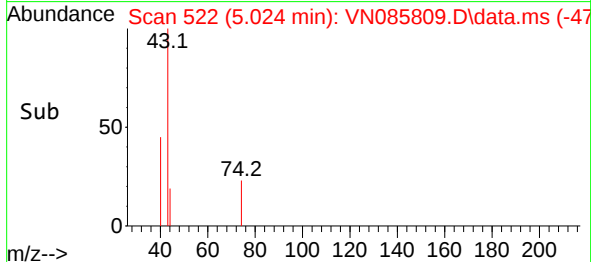
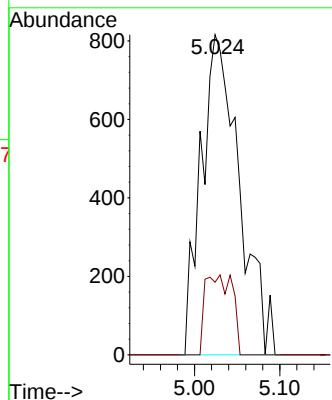
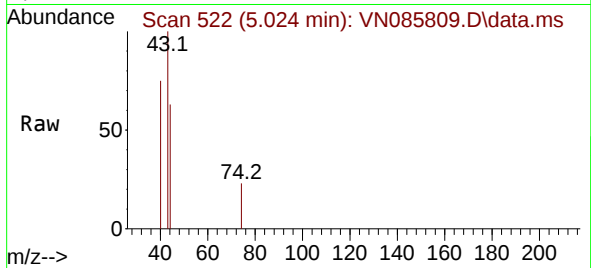




#18
Methyl Acetate
Concen: 0.742 ug/l
RT: 5.024 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN085809.D
Acq: 21 Feb 2025 17:51

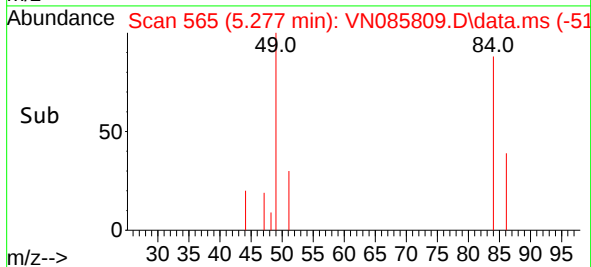
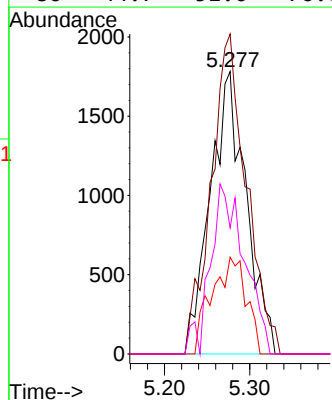
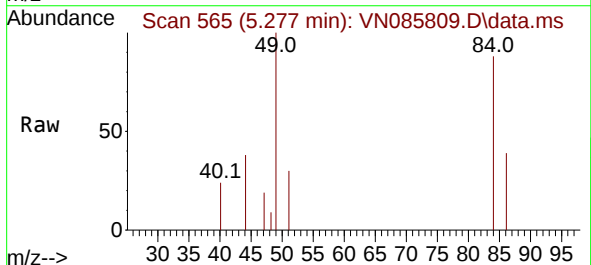
Instrument :
MSVOA_N
ClientSampleId :
PB166809ZHE#02

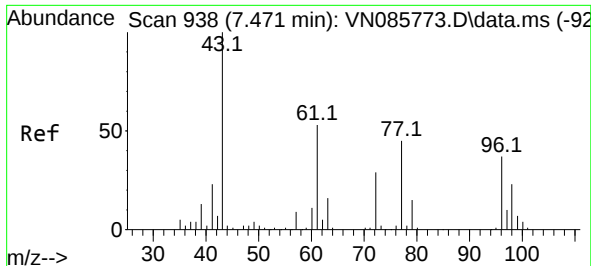
Tgt Ion: 43 Resp: 2545
Ion Ratio Lower Upper
43 100
74 17.9 22.2 33.4#



#20
Methylene Chloride
Concen: 1.625 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.006 min
Lab File: VN085809.D
Acq: 21 Feb 2025 17:51

Tgt Ion: 84 Resp: 5211
Ion Ratio Lower Upper
84 100
49 113.3 88.4 132.6
51 34.2 26.6 40.0
86 44.7 51.0 76.6#

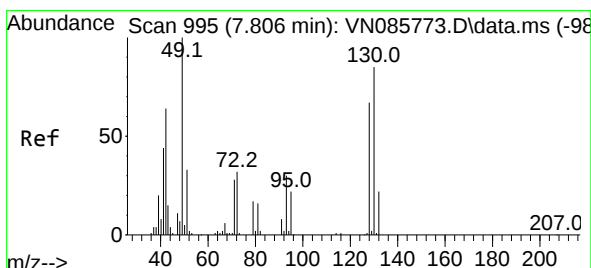
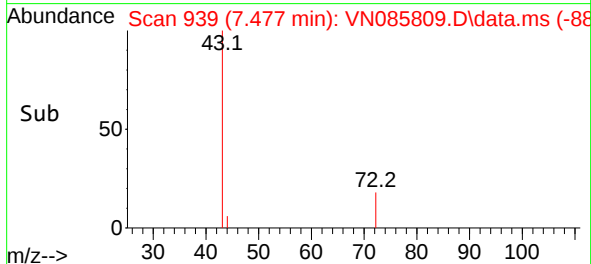
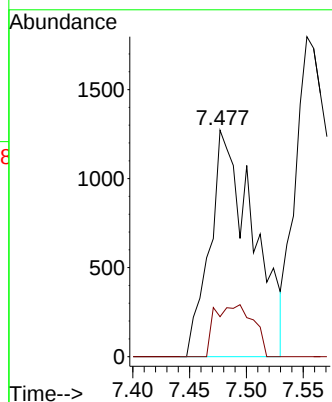
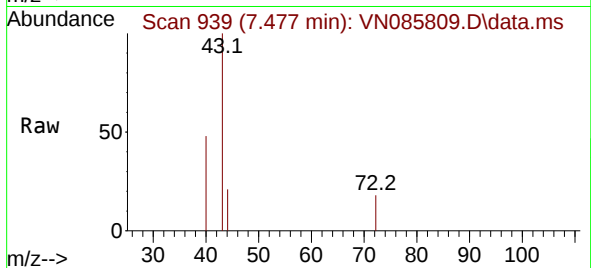




#25
2-Butanone
Concen: 2.301 ug/l
RT: 7.477 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN085809.D
Acq: 21 Feb 2025 17:51

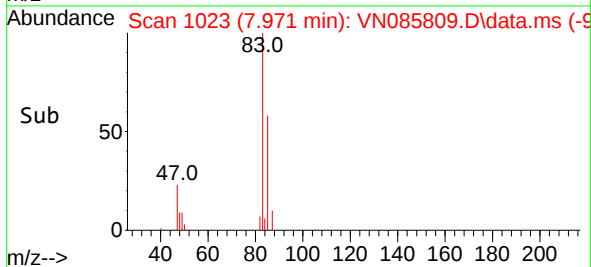
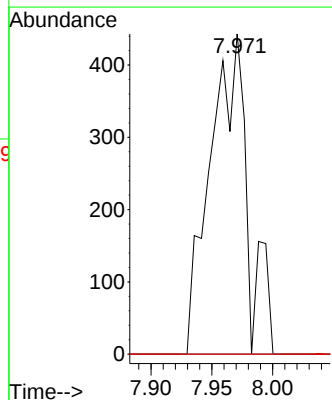
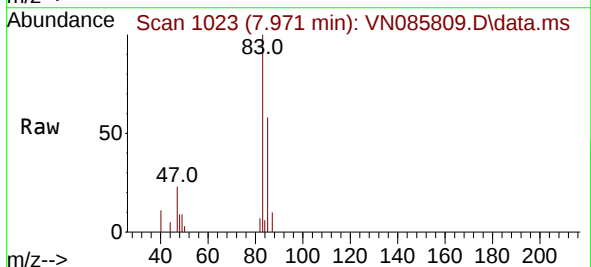
Instrument :
MSVOA_N
ClientSampleId :
PB166809ZHE#02

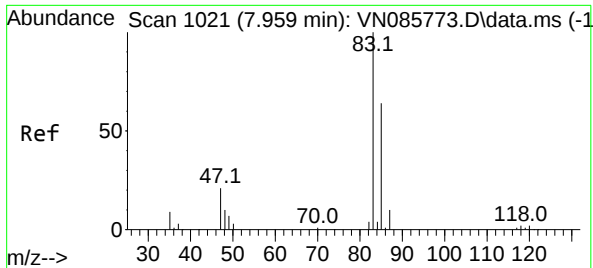
Tgt Ion: 43 Resp: 3377
Ion Ratio Lower Upper
43 100
72 17.7 23.6 35.4#



#28
Bromochloromethane
Concen: 0.430 ug/l
RT: 7.971 min Scan# 1023
Delta R.T. 0.165 min
Lab File: VN085809.D
Acq: 21 Feb 2025 17:51

Tgt Ion: 49 Resp: 950
Ion Ratio Lower Upper
49 100
129 0.0 0.0 3.8
130 0.0 68.0 102.0#

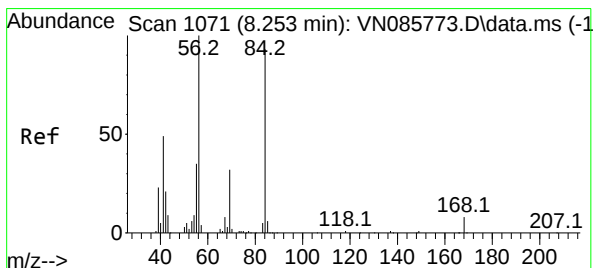
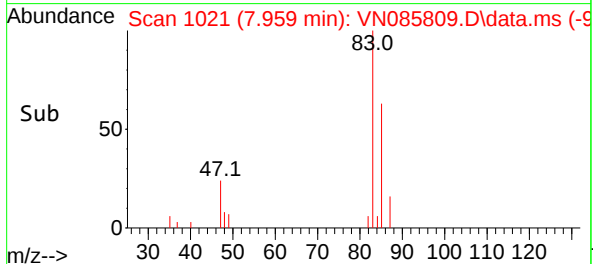
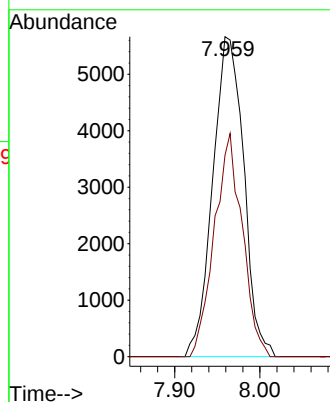
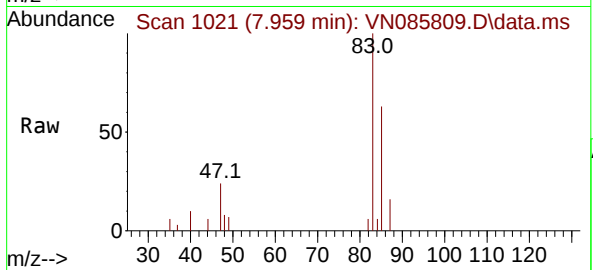




#30
Chloroform
Concen: 2.546 ug/l
RT: 7.959 min Scan# 1065
Delta R.T. 0.000 min
Lab File: VN085809.D
Acq: 21 Feb 2025 17:51

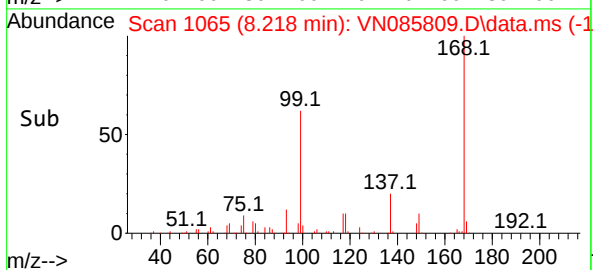
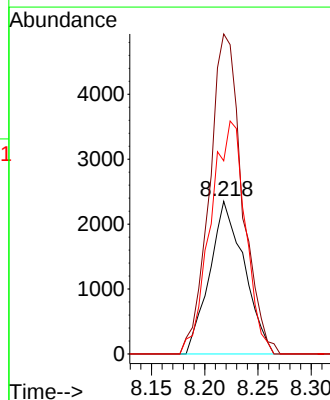
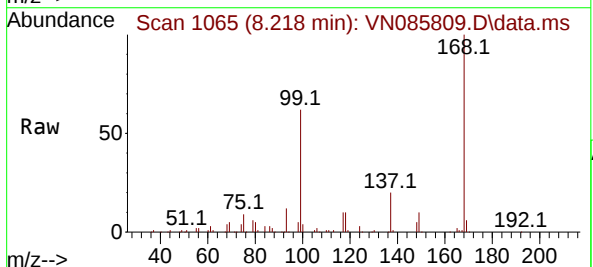
Instrument :
MSVOA_N
ClientSampleId :
PB166809ZHE#02

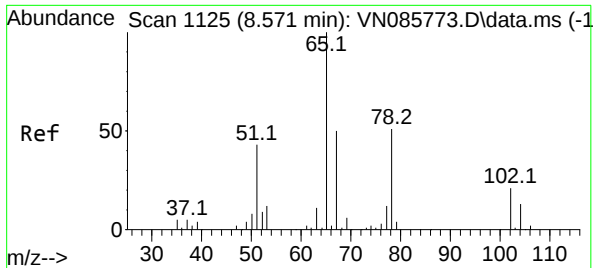
Tgt Ion: 83 Resp: 14310
Ion Ratio Lower Upper
83 100
85 63.0 50.9 76.3



#31
Cyclohexane
Concen: 1.180 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.035 min
Lab File: VN085809.D
Acq: 21 Feb 2025 17:51

Tgt Ion: 56 Resp: 5312
Ion Ratio Lower Upper
56 100
69 209.6 25.8 38.6#
84 126.5 74.5 111.7#





#33

1,2-Dichloroethane-d4

Concen: 59.372 ug/l

RT: 8.577 min Scan# 1125

Delta R.T. 0.006 min

Lab File: VN085809.D

Acq: 21 Feb 2025 17:51

Instrument :

MSVOA_N

ClientSampleId :

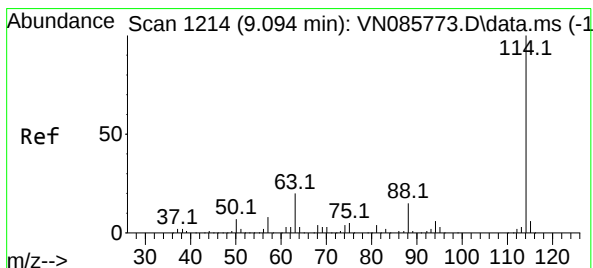
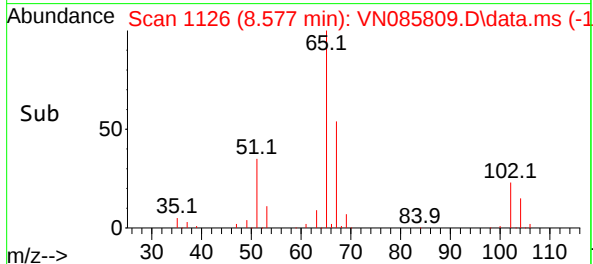
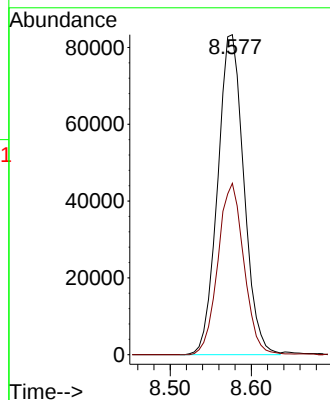
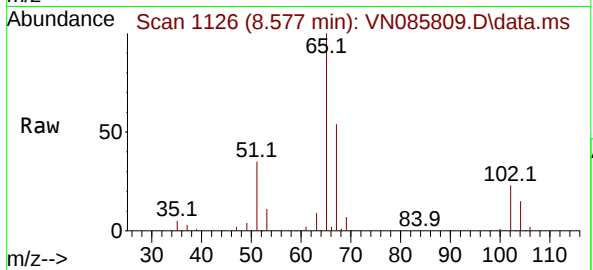
PB166809ZHE#02

Tgt Ion: 65 Resp: 187160

Ion Ratio Lower Upper

65 100

67 53.2 0.0 106.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.006 min

Lab File: VN085809.D

Acq: 21 Feb 2025 17:51

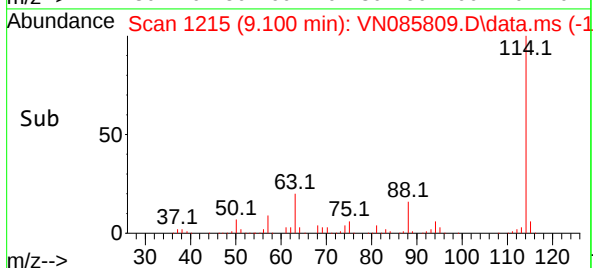
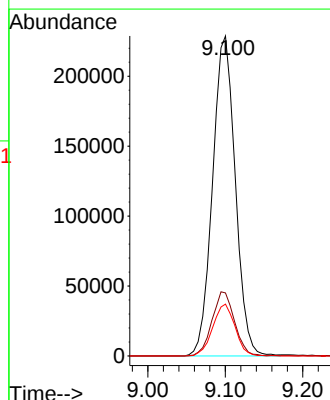
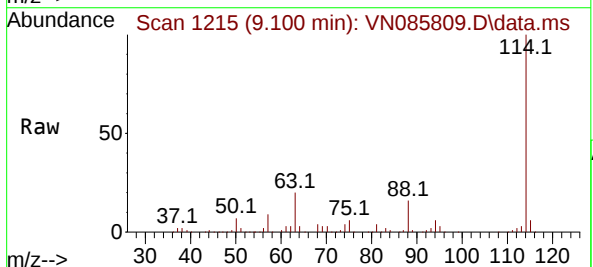
Tgt Ion: 114 Resp: 466435

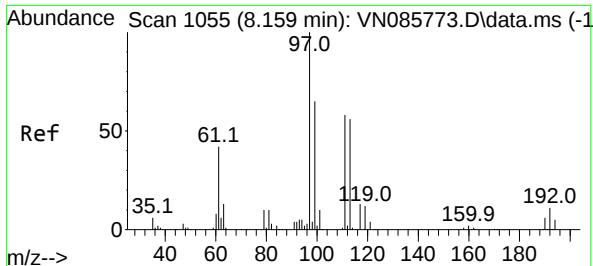
Ion Ratio Lower Upper

114 100

63 19.7 0.0 39.2

88 16.2 0.0 30.0





#35

Dibromofluoromethane

Concen: 53.783 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN085809.D

Acq: 21 Feb 2025 17:51

Instrument :

MSVOA_N

ClientSampleId :

PB166809ZHE#02

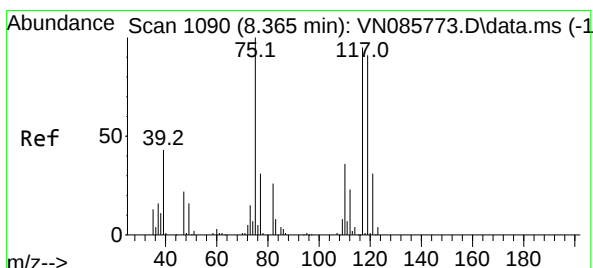
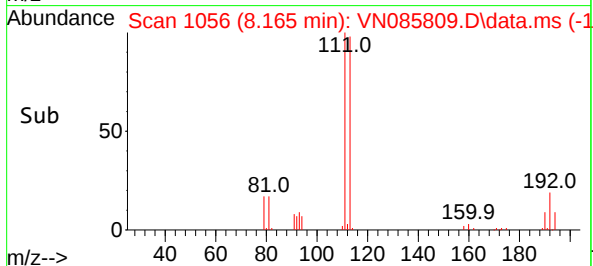
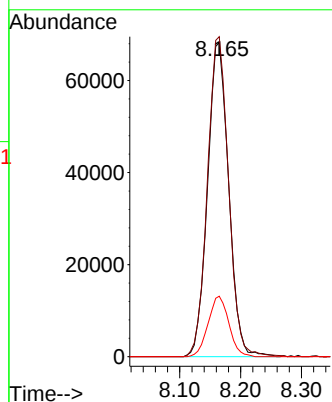
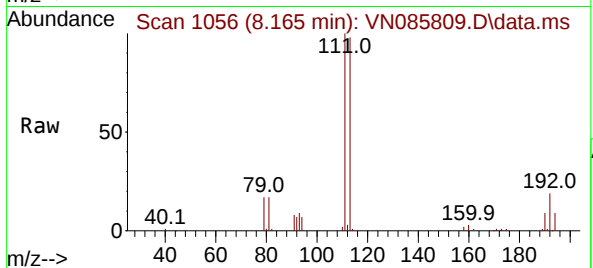
Tgt Ion:113 Resp: 164151

Ion Ratio Lower Upper

113 100

111 102.1 82.2 123.4

192 18.9 14.7 22.1



#36

1,1-Dichloropropene

Concen: 4.732 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.147 min

Lab File: VN085809.D

Acq: 21 Feb 2025 17:51

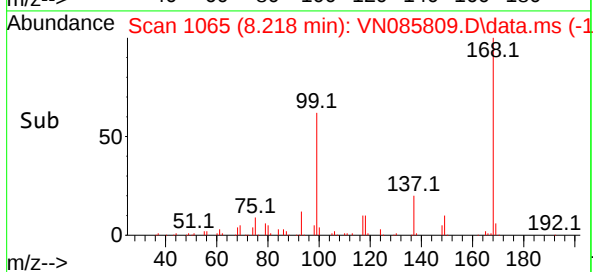
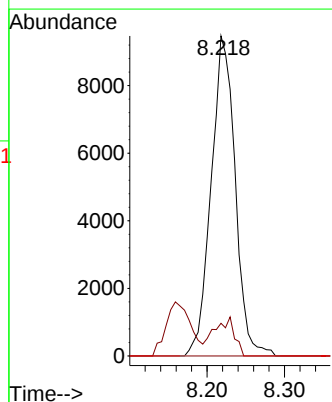
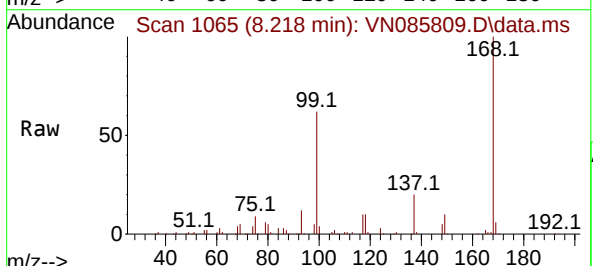
Tgt Ion: 75 Resp: 20439

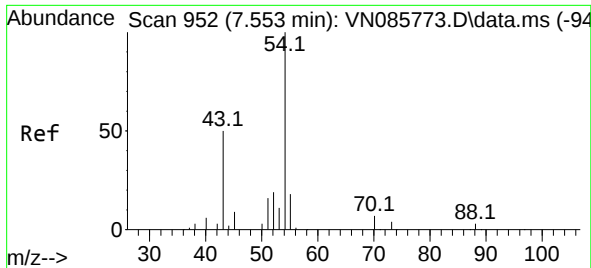
Ion Ratio Lower Upper

75 100

110 10.3 17.3 52.0#

77 0.0 24.6 37.0#

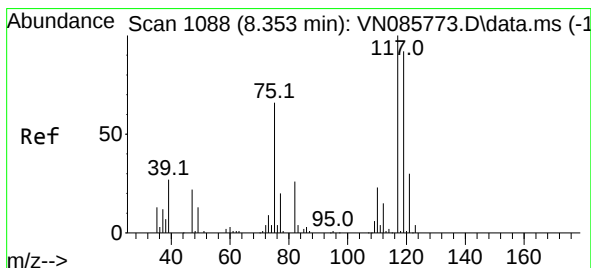
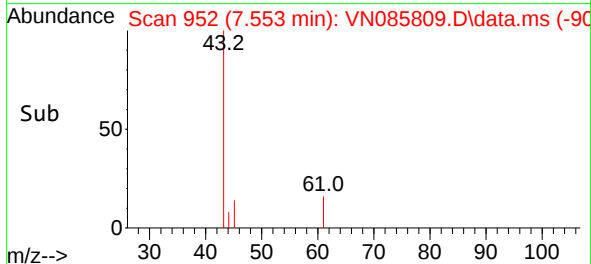
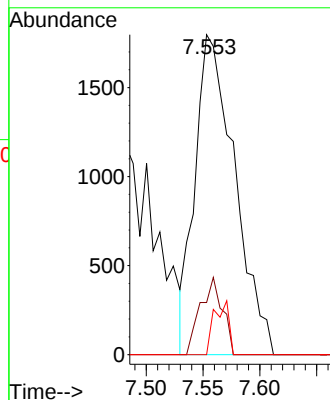
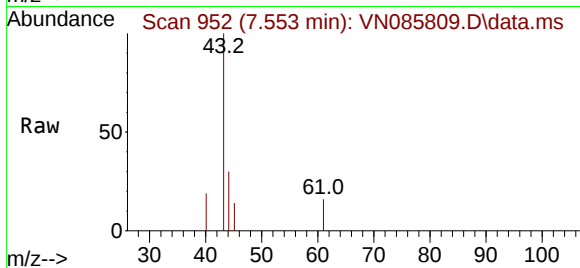




#37
Ethyl Acetate
Concen: 1.230 ug/l
RT: 7.553 min Scan# 91
Delta R.T. 0.000 min
Lab File: VN085809.D
Acq: 21 Feb 2025 17:51

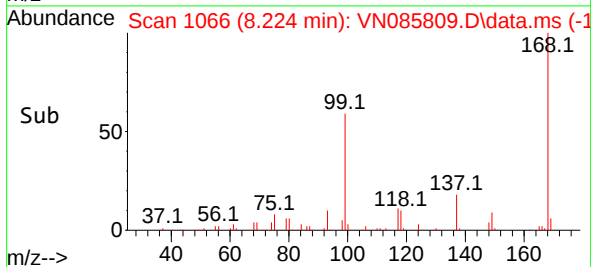
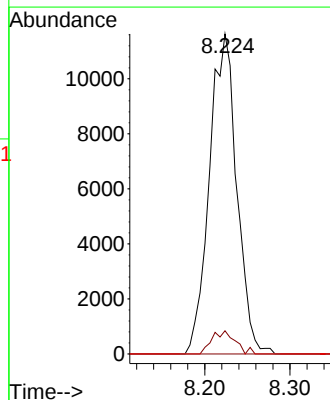
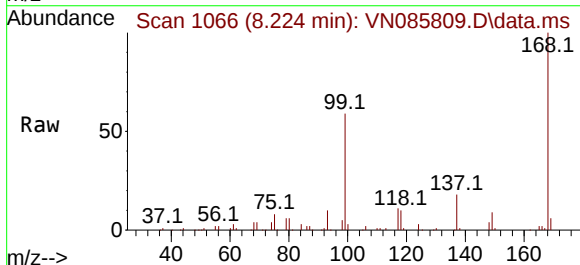
Instrument :
MSVOA_N
ClientSampleId :
PB166809ZHE#02

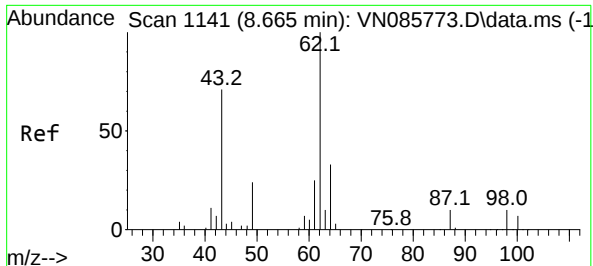
Tgt Ion: 43 Resp: 4373
Ion Ratio Lower Upper
43 100
61 13.4 12.2 18.2
70 6.2 9.5 14.3#



#38
Carbon Tetrachloride
Concen: 5.056 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.129 min
Lab File: VN085809.D
Acq: 21 Feb 2025 17:51

Tgt Ion: 117 Resp: 25952
Ion Ratio Lower Upper
117 100
119 7.3 73.8 110.6#
121 0.0 24.3 36.5#





#42

1,2-Dichloroethane

Concen: 0.258 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.024 min

Lab File: VN085809.D

Acq: 21 Feb 2025 17:51

Instrument :

MSVOA_N

ClientSampleId :

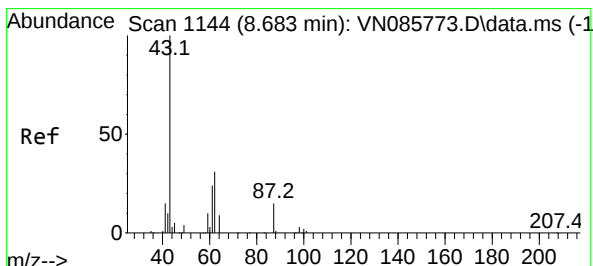
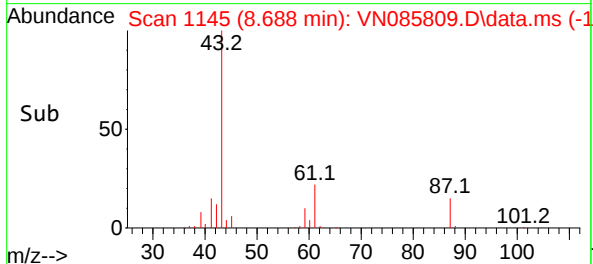
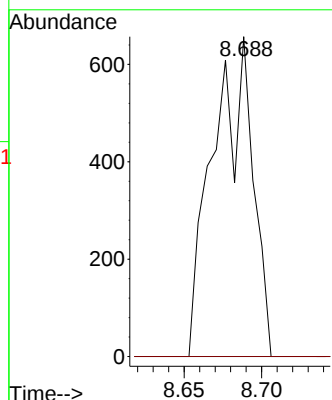
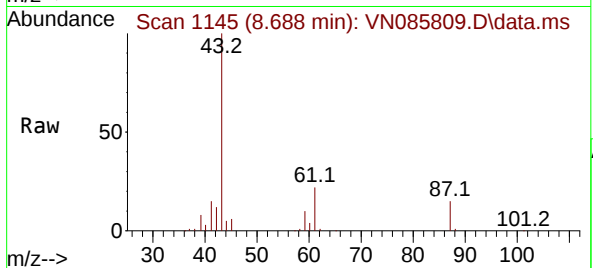
PB166809ZHE#02

Tgt Ion: 62 Resp: 1165

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.6



#43

Isopropyl Acetate

Concen: 28.687 ug/l

RT: 8.683 min Scan# 1144

Delta R.T. -0.000 min

Lab File: VN085809.D

Acq: 21 Feb 2025 17:51

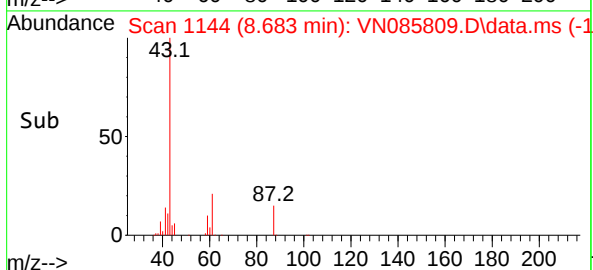
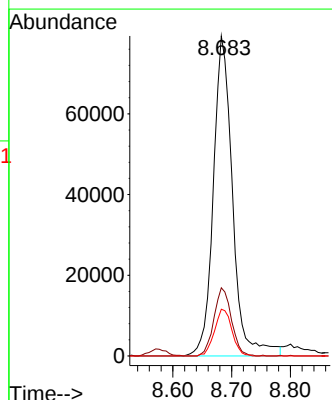
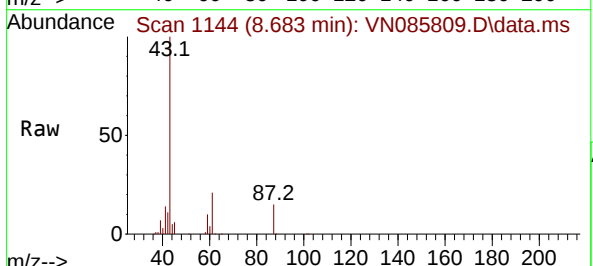
Tgt Ion: 43 Resp: 180421

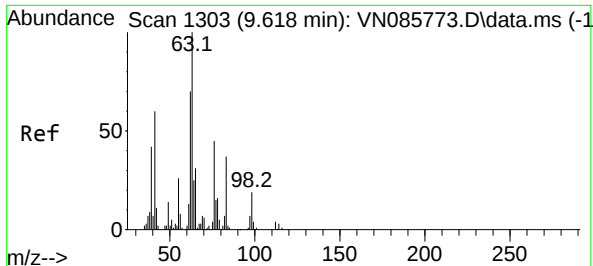
Ion Ratio Lower Upper

43 100

61 19.3 22.6 34.0#

87 13.3 11.8 17.8

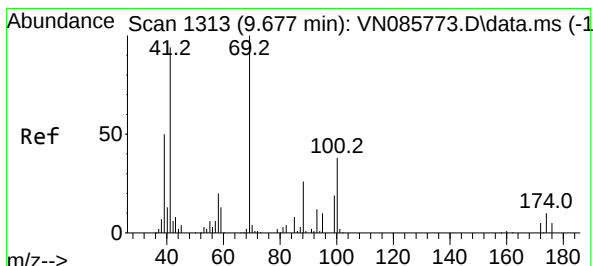
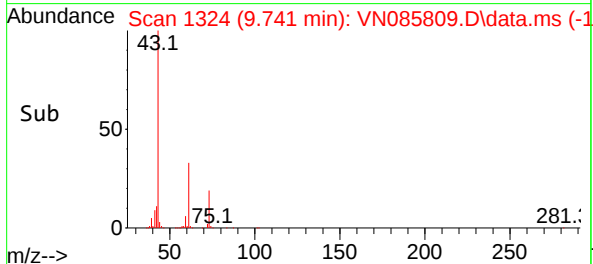
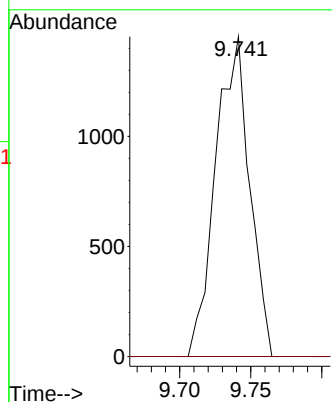
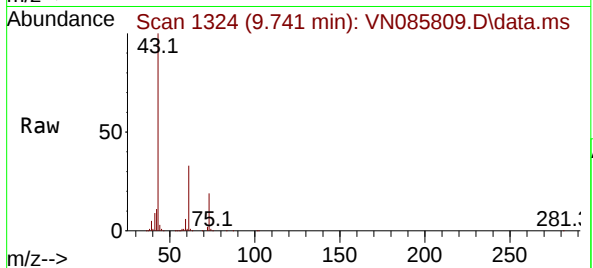




#45
1,2-Dichloropropane
Concen: 0.723 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.124 min
Lab File: VN085809.D
Acq: 21 Feb 2025 17:51

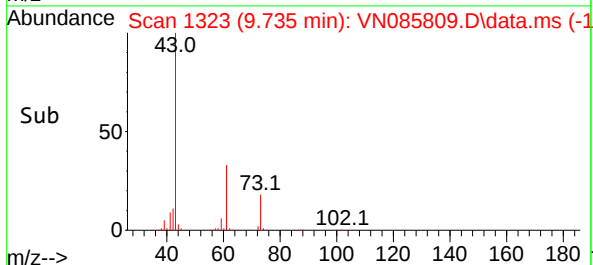
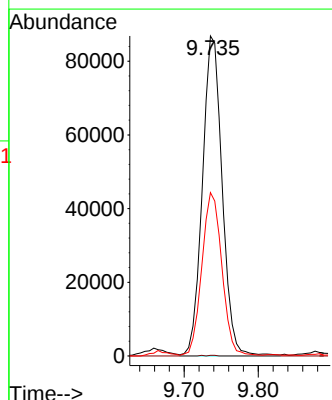
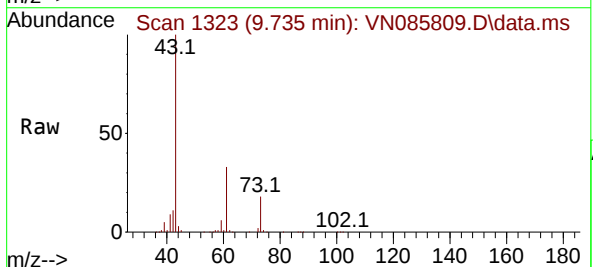
Instrument :
MSVOA_N
ClientSampleId :
PB166809ZHE#02

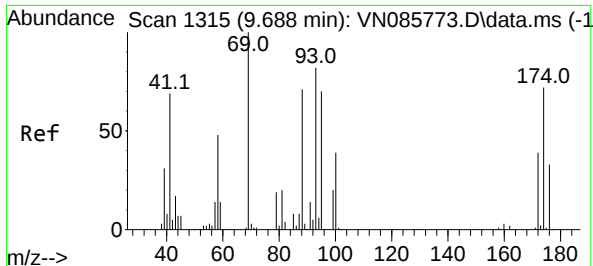
Tgt Ion: 63 Resp: 2416
Ion Ratio Lower Upper
63 100
65 0.0 25.1 37.7#



#48
Methyl methacrylate
Concen: 61.036 ug/l
RT: 9.735 min Scan# 1323
Delta R.T. 0.059 min
Lab File: VN085809.D
Acq: 21 Feb 2025 17:51

Tgt Ion: 41 Resp: 161134
Ion Ratio Lower Upper
41 100
69 0.1 76.0 114.0#
39 51.2 42.3 63.5





#49

1,4-Dioxane

Concen: 2.211 ug/l

RT: 9.735 min Scan# 11

Delta R.T. 0.047 min

Lab File: VN085809.D

Acq: 21 Feb 2025 17:51

Instrument :

MSVOA_N

ClientSampleId :

PB166809ZHE#02

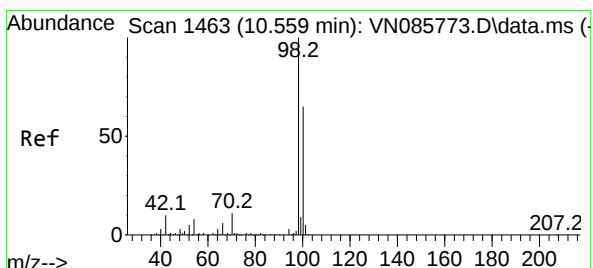
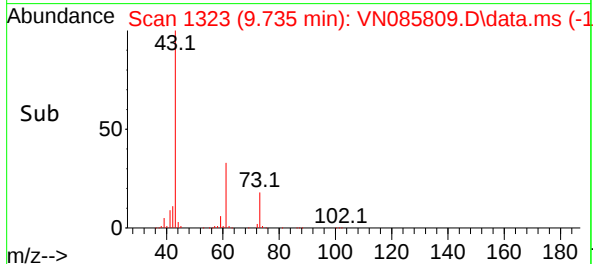
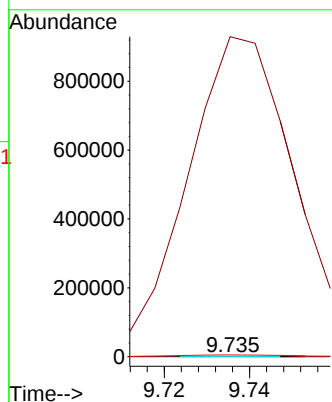
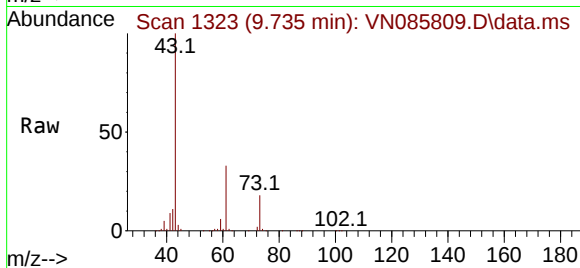
Tgt Ion: 88 Resp: 111

Ion Ratio Lower Upper

88 100

43 1504780.2 18.6 27.8#

58 9356.8 56.7 85.1#



#50

Toluene-d8

Concen: 56.266 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.006 min

Lab File: VN085809.D

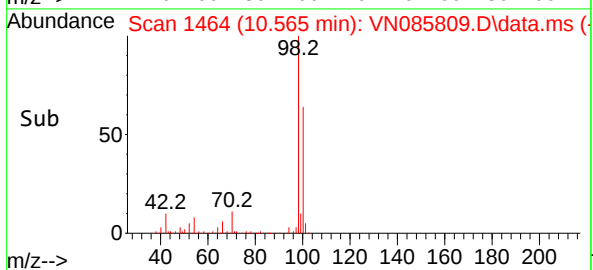
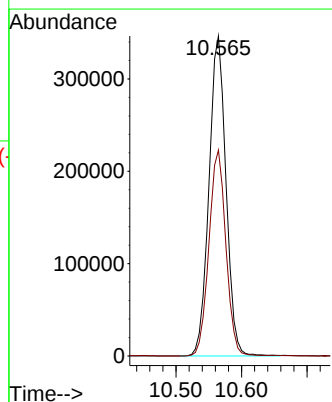
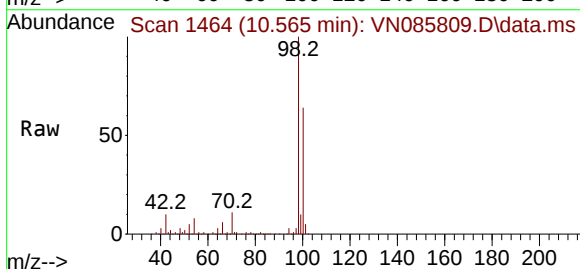
Acq: 21 Feb 2025 17:51

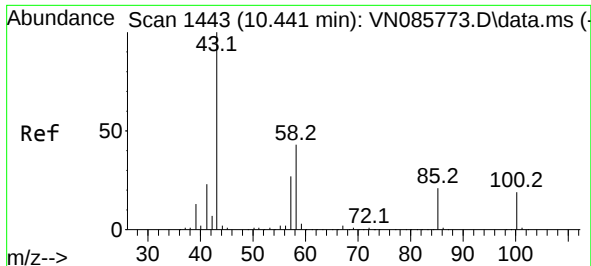
Tgt Ion: 98 Resp: 624813

Ion Ratio Lower Upper

98 100

100 64.1 52.1 78.1





#51

4-Methyl-2-Pentanone

Concen: 1.917 ug/l

RT: 10.441 min Scan# 1443

Delta R.T. 0.000 min

Lab File: VN085809.D

Acq: 21 Feb 2025 17:51

Instrument :

MSVOA_N

ClientSampleId :

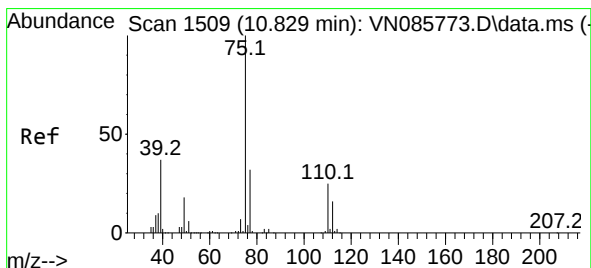
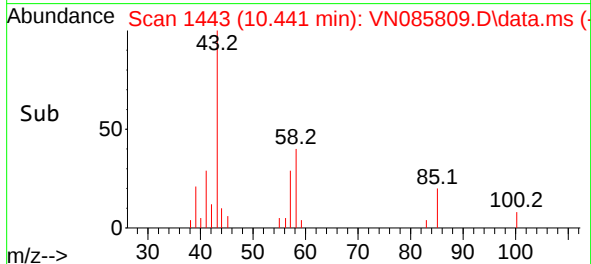
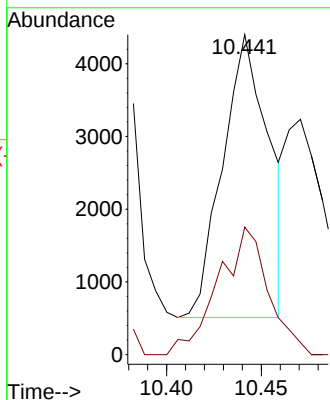
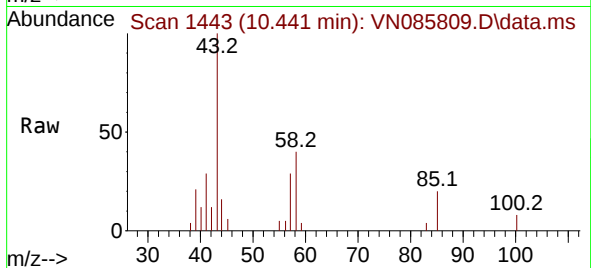
PB166809ZHE#02

Tgt Ion: 43 Resp: 6569

Ion Ratio Lower Upper

43 100

58 49.3 34.6 52.0



#53

t-1,3-Dichloropropene

Concen: 0.301 ug/l

RT: 10.729 min Scan# 1492

Delta R.T. -0.100 min

Lab File: VN085809.D

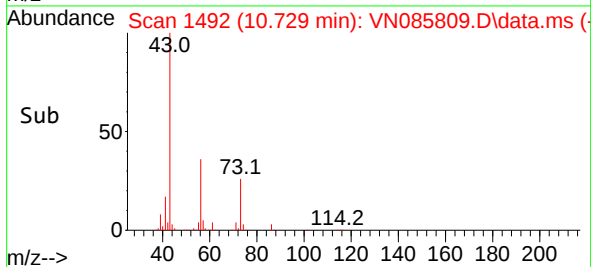
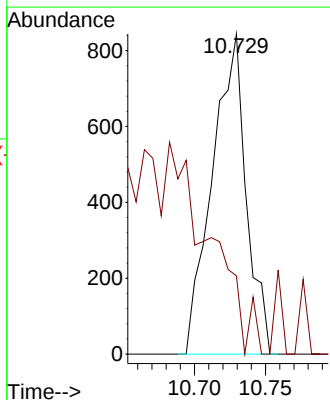
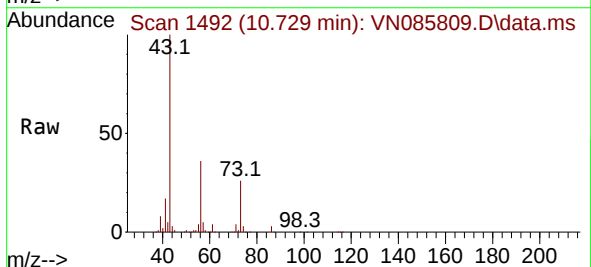
Acq: 21 Feb 2025 17:51

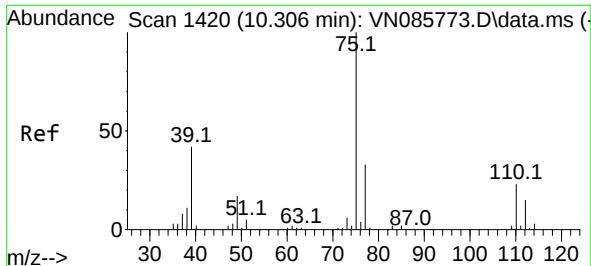
Tgt Ion: 75 Resp: 1402

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#

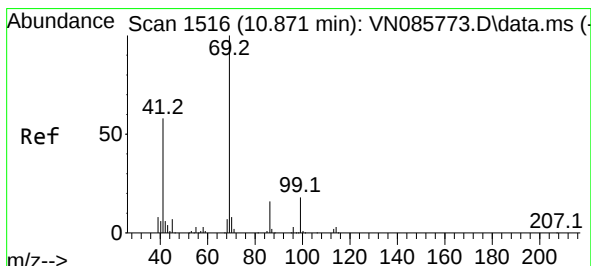
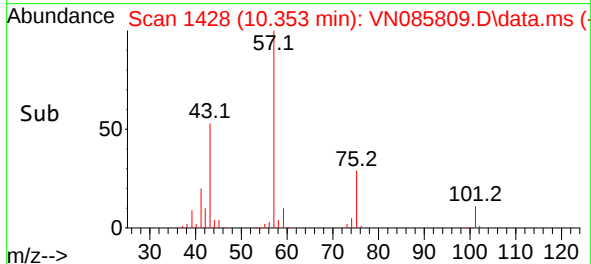
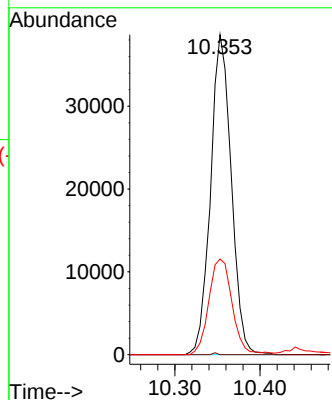
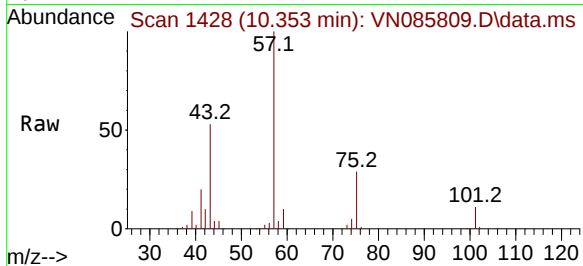




#54
cis-1,3-Dichloropropene
Concen: 12.744 ug/l
RT: 10.353 min Scan# 1428
Delta R.T. 0.047 min
Lab File: VN085809.D
Acq: 21 Feb 2025 17:51

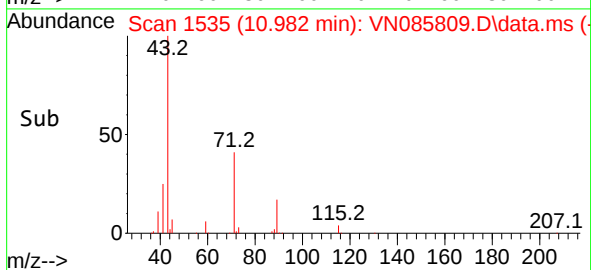
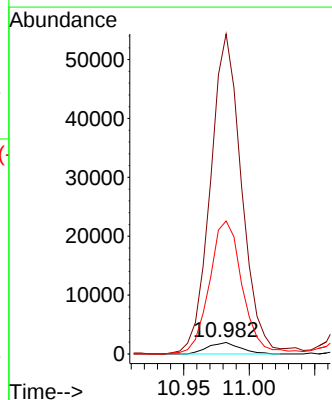
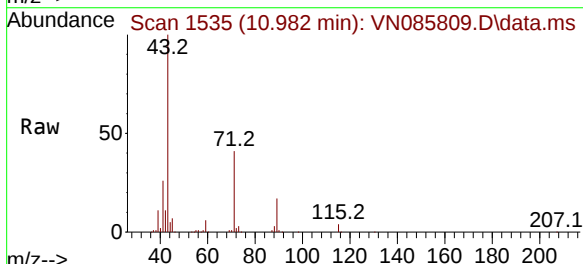
Instrument :
MSVOA_N
ClientSampleId :
PB166809ZHE#02

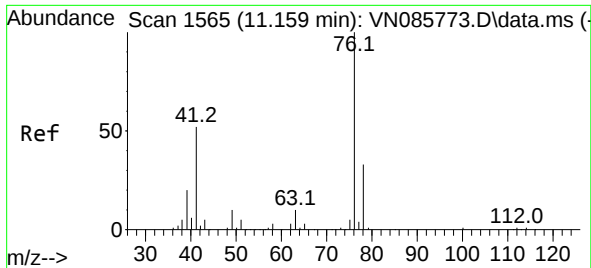
Tgt Ion: 75 Resp: 65168
Ion Ratio Lower Upper
75 100
77 0.0 26.1 39.1#
39 29.9 33.4 50.0#



#56
Ethyl methacrylate
Concen: 1.263 ug/l
RT: 10.982 min Scan# 1535
Delta R.T. 0.111 min
Lab File: VN085809.D
Acq: 21 Feb 2025 17:51

Tgt Ion: 69 Resp: 3342
Ion Ratio Lower Upper
69 100
41 2710.8 46.0 69.0#
39 1184.9 22.0 33.0#





#57

1,3-Dichloropropane

Concen: 1.820 ug/l

RT: 11.194 min Scan# 11

Delta R.T. 0.035 min

Lab File: VN085809.D

Acq: 21 Feb 2025 17:51

Instrument :

MSVOA_N

ClientSampleId :

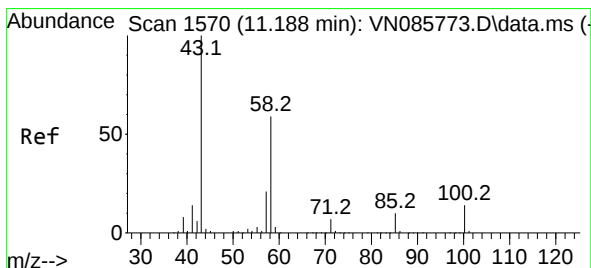
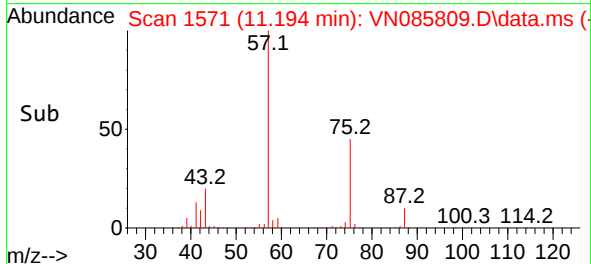
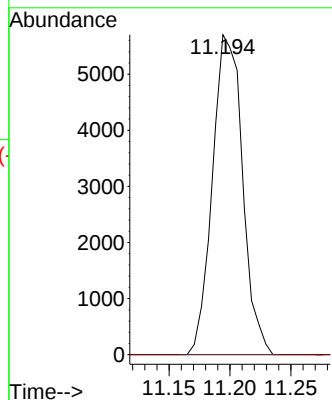
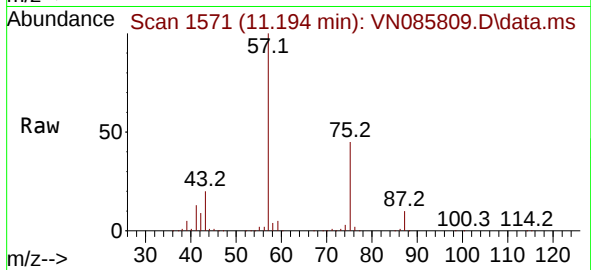
PB166809ZHE#02

Tgt Ion: 76 Resp: 9803

Ion Ratio Lower Upper

76 100

78 0.0 25.9 38.9#



#59

2-Hexanone

Concen: 61.223 ug/l

RT: 11.165 min Scan# 1566

Delta R.T. -0.023 min

Lab File: VN085809.D

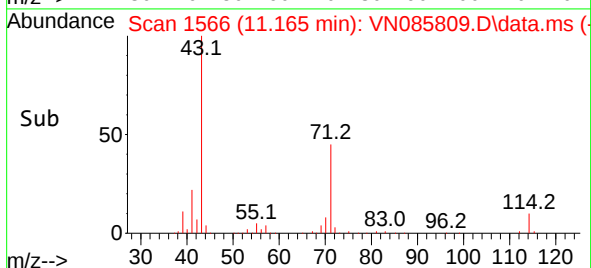
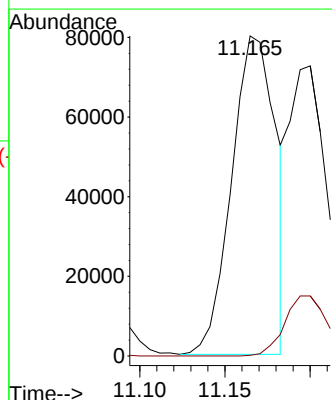
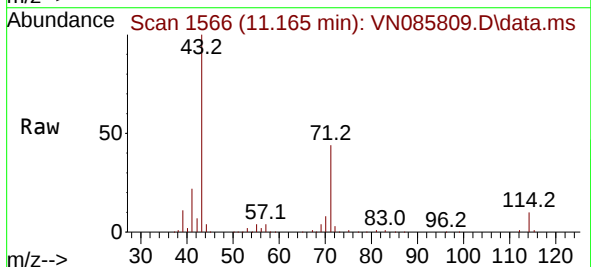
Acq: 21 Feb 2025 17:51

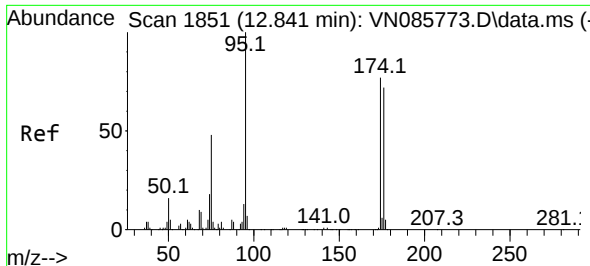
Tgt Ion: 43 Resp: 144350

Ion Ratio Lower Upper

43 100

58 0.0 29.8 89.5#

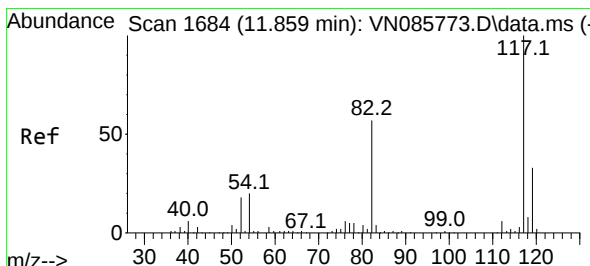
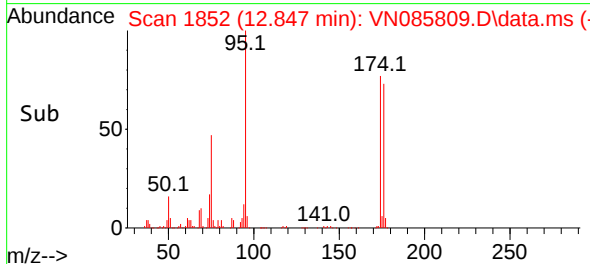
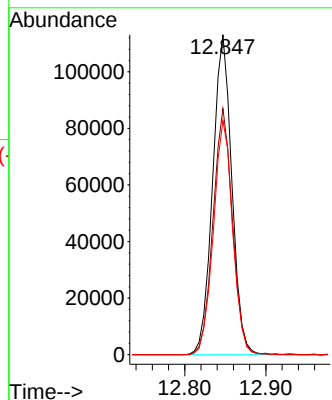
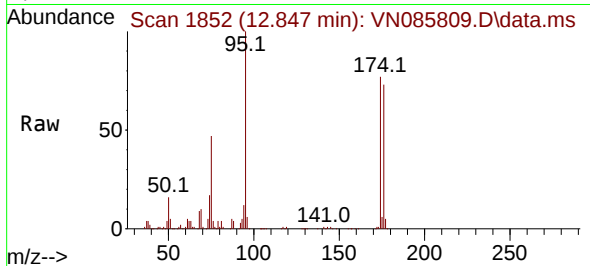




#62
4-Bromofluorobenzene
Concen: 50.690 ug/l
RT: 12.847 min Scan# 1851
Delta R.T. 0.006 min
Lab File: VN085809.D
Acq: 21 Feb 2025 17:51

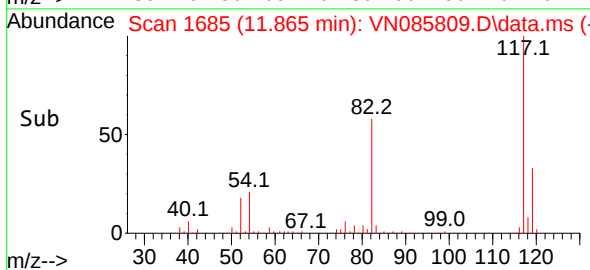
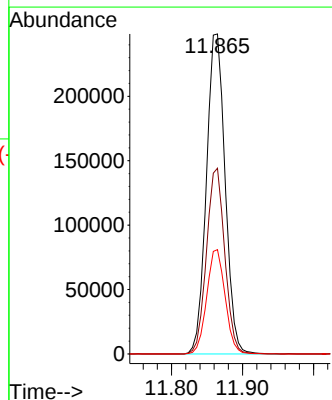
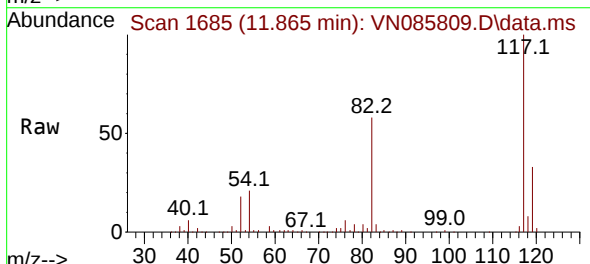
Instrument :
MSVOA_N
ClientSampleId :
PB166809ZHE#02

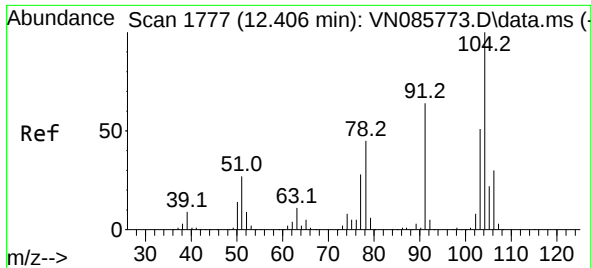
Tgt Ion: 95 Resp: 185459
Ion Ratio Lower Upper
95 100
174 78.0 0.0 152.4
176 73.5 0.0 146.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.006 min
Lab File: VN085809.D
Acq: 21 Feb 2025 17:51

Tgt Ion: 117 Resp: 455752
Ion Ratio Lower Upper
117 100
82 58.1 45.7 68.5
119 32.6 26.2 39.2

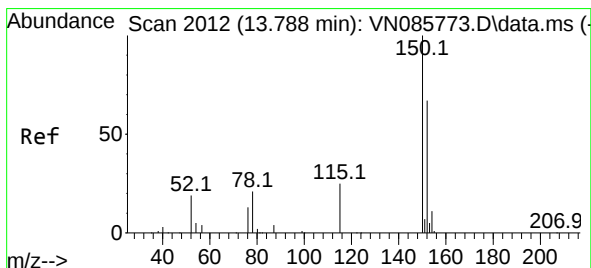
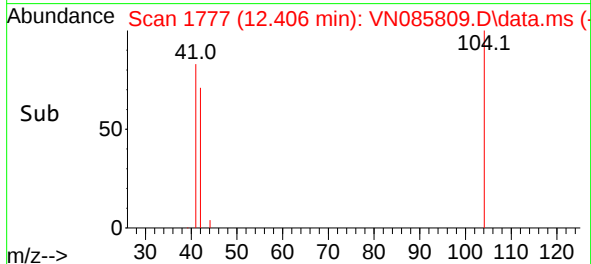
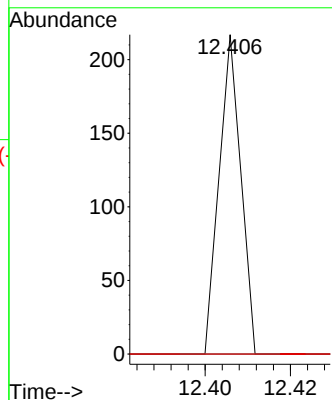
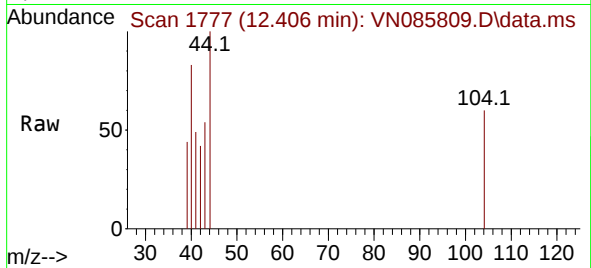




#70
Styrene
Concen: 0.592 ug/l
RT: 12.406 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN085809.D
Acq: 21 Feb 2025 17:51

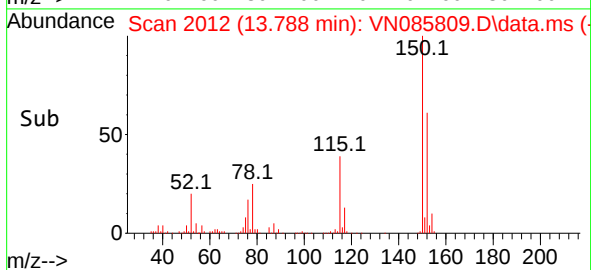
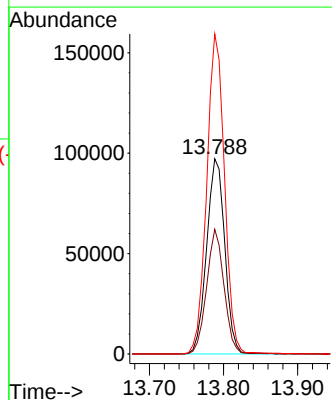
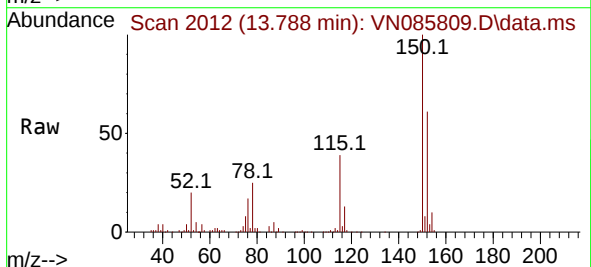
Instrument :
MSVOA_N
ClientSampleId :
PB166809ZHE#02

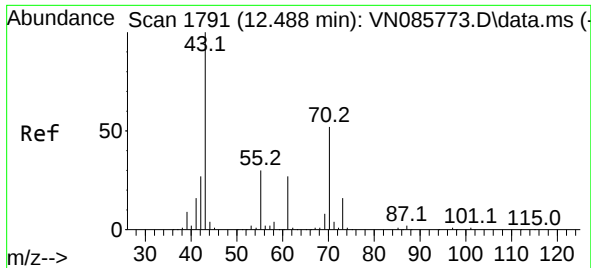
Tgt Ion:104 Resp: 77
Ion Ratio Lower Upper
104 100
78 0.0 39.0 58.6#
103 0.0 43.3 64.9#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN085809.D
Acq: 21 Feb 2025 17:51

Tgt Ion:152 Resp: 165289
Ion Ratio Lower Upper
152 100
115 61.4 30.4 91.3
150 160.6 0.0 345.4

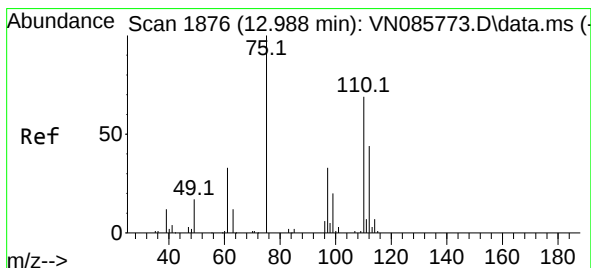
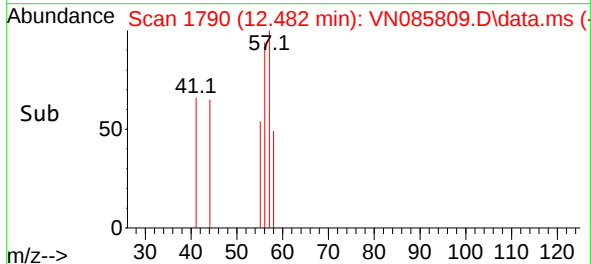
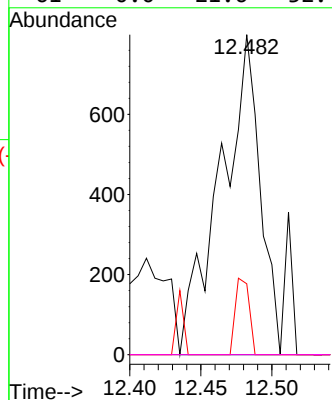
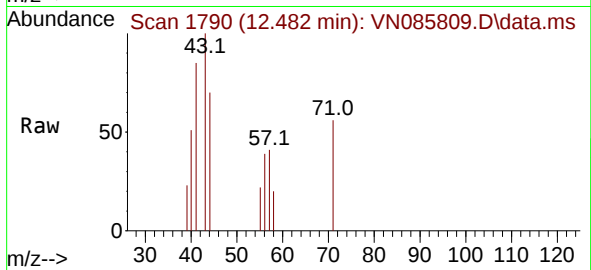




#74
N-amy1 acetate
Concen: 0.389 ug/l
RT: 12.482 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN085809.D
Acq: 21 Feb 2025 17:51

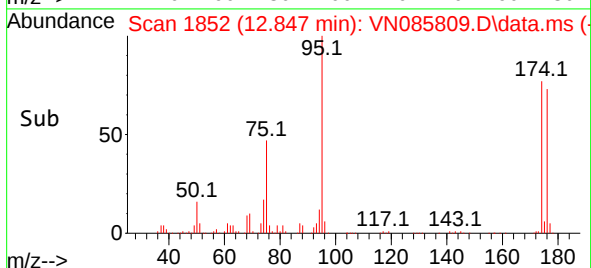
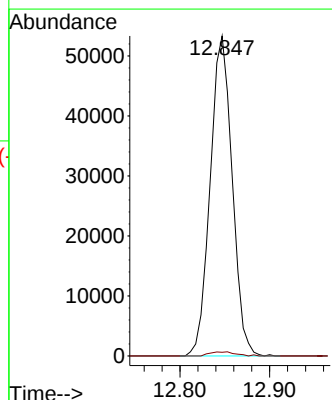
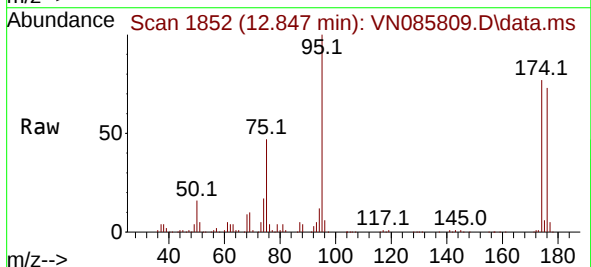
Instrument :
MSVOA_N
ClientSampleId :
PB166809ZHE#02

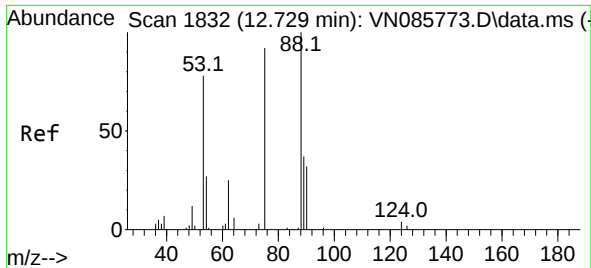
Tgt Ion: 43 Resp: 1552
Ion Ratio Lower Upper
43 100
70 0.0 41.0 61.4#
55 8.4 24.6 36.8#
61 0.0 21.6 32.4#



#76
1,2,3-Trichloropropane
Concen: 24.734 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN085809.D
Acq: 21 Feb 2025 17:51

Tgt Ion: 75 Resp: 90815
Ion Ratio Lower Upper
75 100
77 1.5 100.0 300.0#

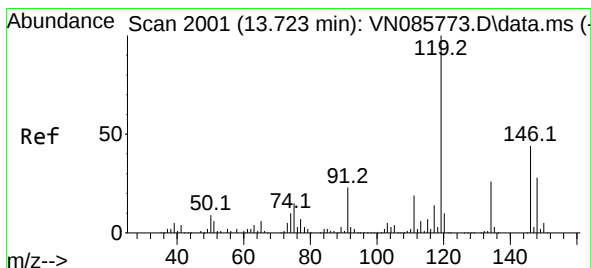
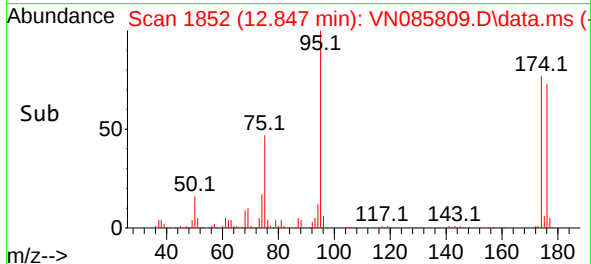
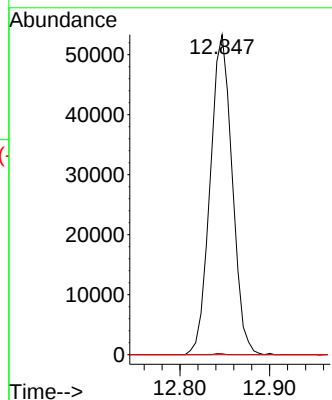
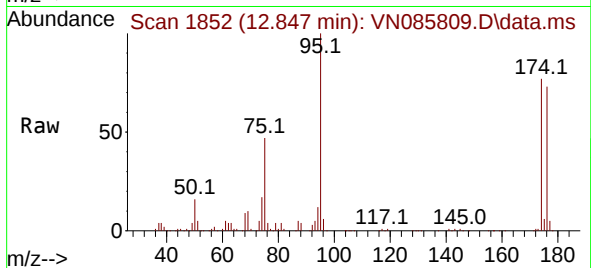




#81
trans-1,4-Dichloro-2-butene
Concen: 72.169 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.118 min
Lab File: VN085809.D
Acq: 21 Feb 2025 17:51

Instrument :
MSVOA_N
ClientSampleId :
PB166809ZHE#02

Tgt Ion: 75 Resp: 90815
Ion Ratio Lower Upper
75 100
53 0.1 74.2 111.4#
89 0.0 34.9 52.3#



#86
p-Isopropyltoluene
Concen: 0.631 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.006 min
Lab File: VN085809.D
Acq: 21 Feb 2025 17:51

Tgt Ion: 119 Resp: 54
Ion Ratio Lower Upper
119 100
134 0.0 13.0 39.0#
91 0.0 11.7 35.1#

