

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020525\
 Data File : VN085672.D
 Acq On : 05 Feb 2025 13:11
 Operator : JC\MD
 Sample : PB166529ZHE#01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 06 00:39:43 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 02:16:08 2025
 Response via : Initial Calibration

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

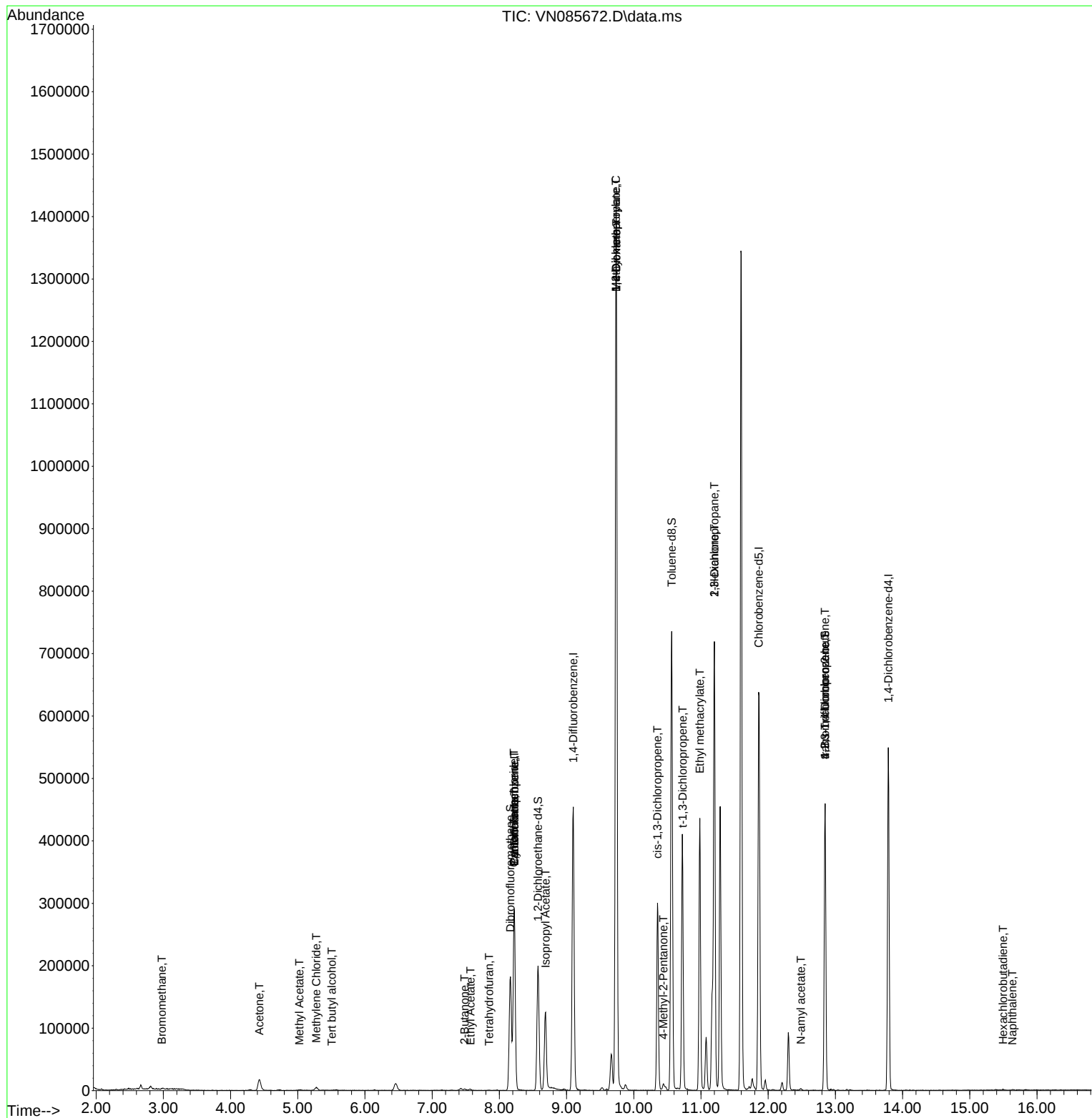
Internal Standards						
1) Pentafluorobenzene	8.224	168	209250	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	398098	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.859	117	375948	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	146674	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	157300	46.570	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	93.140%		
35) Dibromofluoromethane	8.165	113	135650	49.116	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	98.240%		
50) Toluene-d8	10.565	98	515862	52.571	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	105.140%		
62) 4-Bromofluorobenzene	12.847	95	156055	46.491	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	92.980%		
Target Compounds						
					Qvalue	
5) Bromomethane	2.977	94	681	0.366	ug/l	94
11) Tert butyl alcohol	5.506	59	117	0.303	ug/l #	71
16) Acetone	4.430	43	33972	31.128	ug/l	91
18) Methyl Acetate	5.024	43	2119	0.639	ug/l #	67
20) Methylene Chloride	5.277	84	3674	1.360	ug/l #	79
25) 2-Butanone	7.482	43	3803	2.368	ug/l #	68
29) Tetrahydrofuran	7.847	42	351	0.345	ug/l #	34
31) Cyclohexane	8.224	56	5062	1.181	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	17429	4.496	ug/l #	50
37) Ethyl Acetate	7.571	43	3321	0.849	ug/l #	82
38) Carbon Tetrachloride	8.218	117	22154	4.992	ug/l #	17
43) Isopropyl Acetate	8.688	43	139836	22.306	ug/l #	90
45) 1,2-Dichloropropane	9.735	63	1863	0.626	ug/l #	43
48) Methyl methacrylate	9.735	41	132630	47.011	ug/l #	45
49) 1,4-Dioxane	9.741	88	124	2.610	ug/l #	1
51) 4-Methyl-2-Pentanone	10.441	43	6252	1.719	ug/l #	87
53) t-1,3-Dichloropropene	10.729	75	881	0.213	ug/l #	45
54) cis-1,3-Dichloropropene	10.353	75	55267	12.520	ug/l #	61
56) Ethyl methacrylate	10.982	69	1961	2.350	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	7968	1.716	ug/l #	43
59) 2-Hexanone	11.200	43	95294	37.228	ug/l #	57
74) N-amyl acetate	12.488	43	1450	0.326	ug/l #	50
76) 1,2,3-Trichloropropane	12.847	75	81886	27.468	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	81886	74.316	ug/l #	3
94) Hexachlorobutadiene	15.494	225	237	0.202	ug/l	91
95) Naphthalene	15.635	128	1649	0.250	ug/l #	74

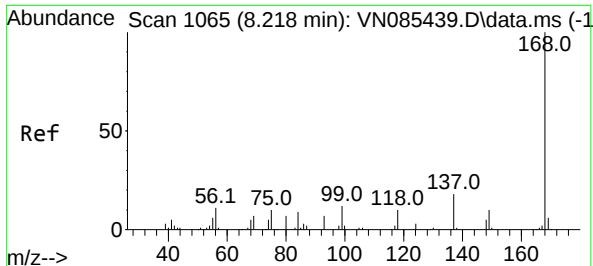
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
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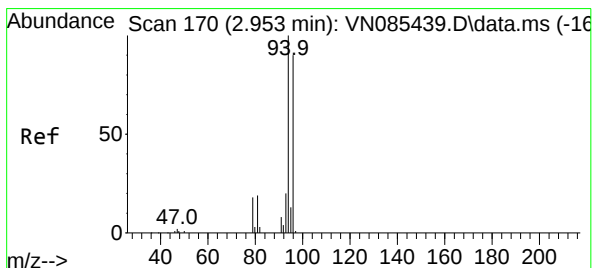
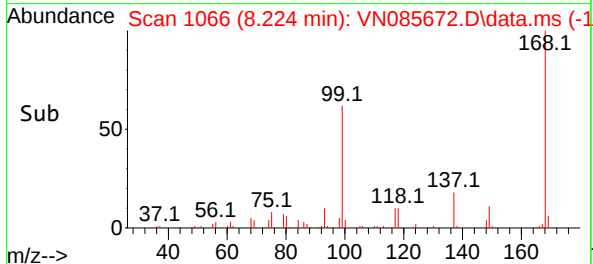
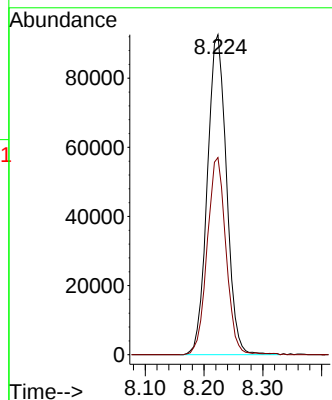
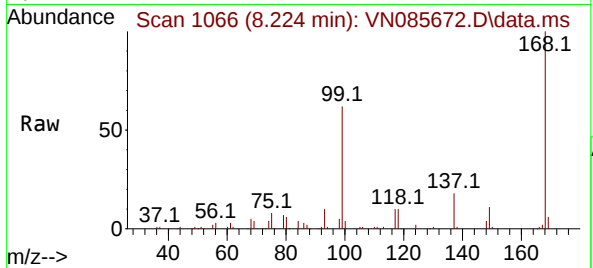




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085672.D
Acq: 05 Feb 2025 13:11

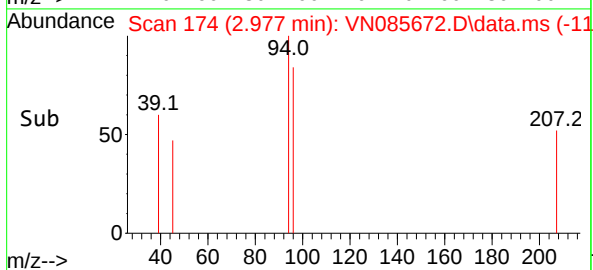
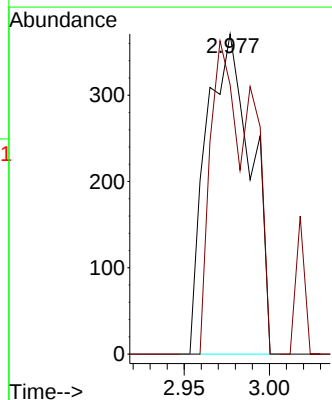
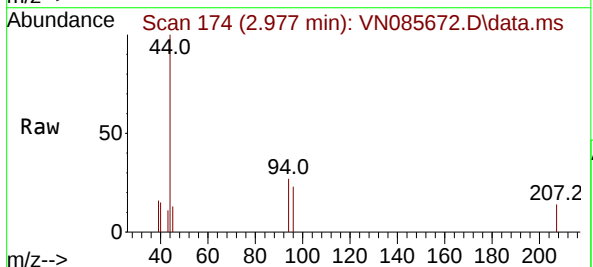
Instrument :
MSVOA_N
ClientSampleId :

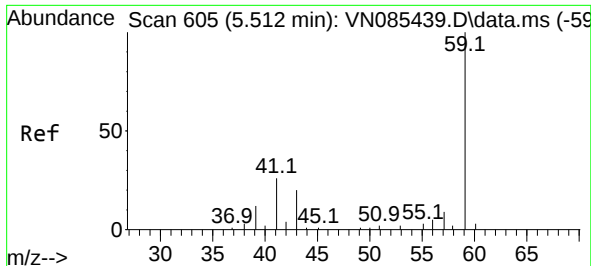
Tgt Ion:168 Resp: 209250
Ion Ratio Lower Upper
168 100
99 61.6 53.6 80.4



#5
Bromomethane
Concen: 0.366 ug/l
RT: 2.977 min Scan# 174
Delta R.T. 0.023 min
Lab File: VN085672.D
Acq: 05 Feb 2025 13:11

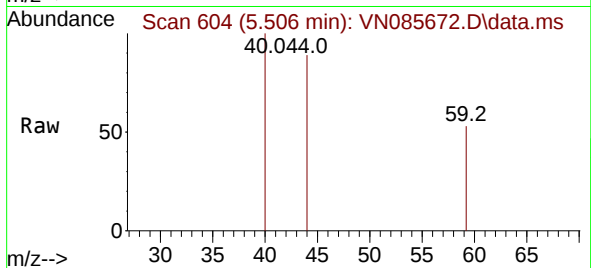
Tgt Ion: 94 Resp: 681
Ion Ratio Lower Upper
94 100
96 84.1 71.8 107.6



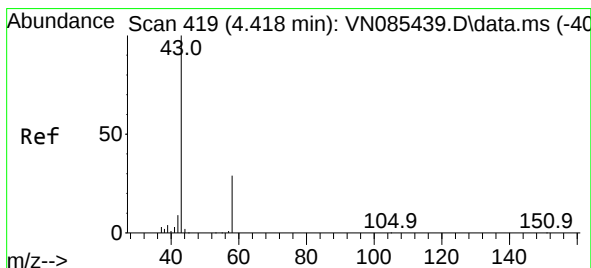
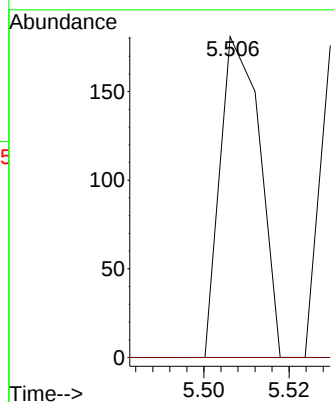
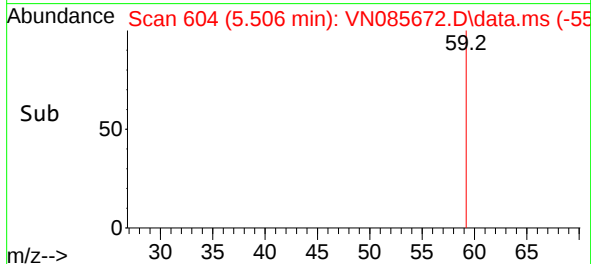


#11
Tert butyl alcohol
Concen: 0.303 ug/l
RT: 5.506 min Scan# 605
Delta R.T. -0.006 min
Lab File: VN085672.D
Acq: 05 Feb 2025 13:11

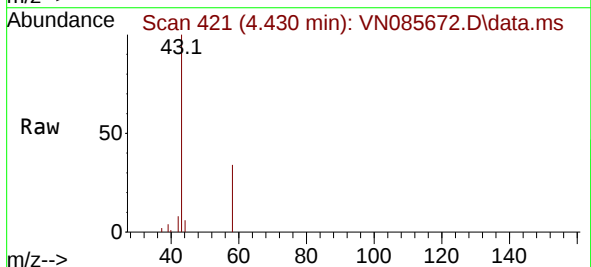
Instrument :
MSVOA_N
ClientSampleId :



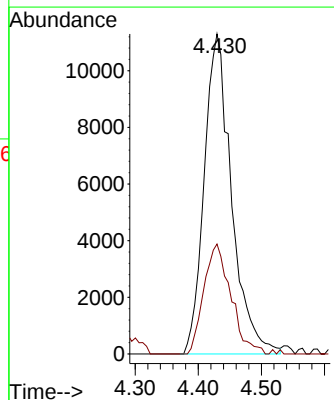
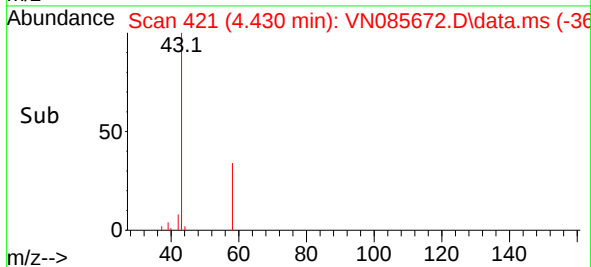
Tgt Ion: 59 Resp: 117
Ion Ratio Lower Upper
59 100
57 0.0 8.6 13.0#

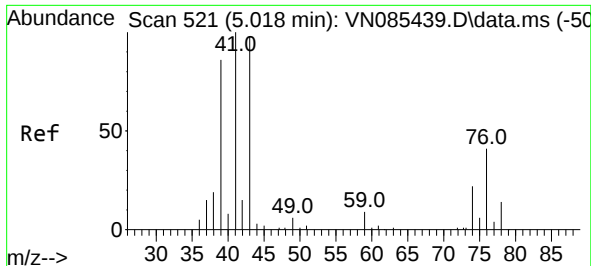


#16
Acetone
Concen: 31.128 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.012 min
Lab File: VN085672.D
Acq: 05 Feb 2025 13:11



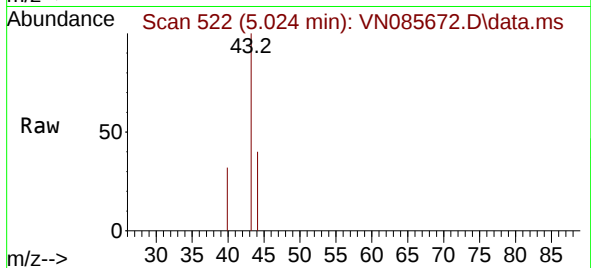
Tgt Ion: 43 Resp: 33972
Ion Ratio Lower Upper
43 100
58 34.3 23.8 35.6



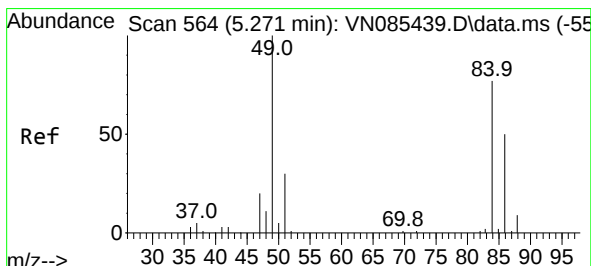
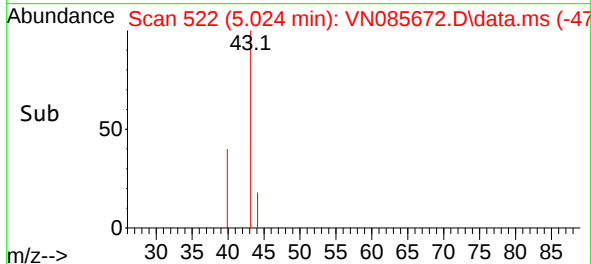
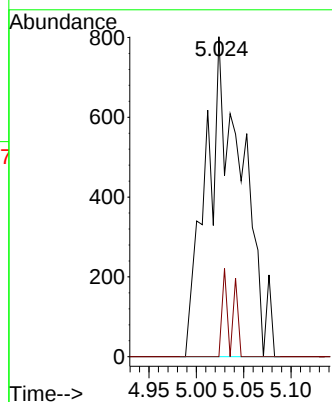


#18
Methyl Acetate
Concen: 0.639 ug/l
RT: 5.024 min Scan# 511
Delta R.T. 0.006 min
Lab File: VN085672.D
Acq: 05 Feb 2025 13:11

Instrument :
MSVOA_N
ClientSampleId :

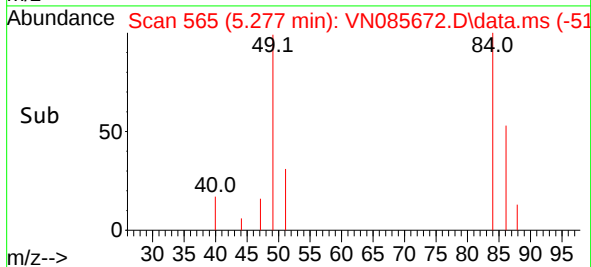
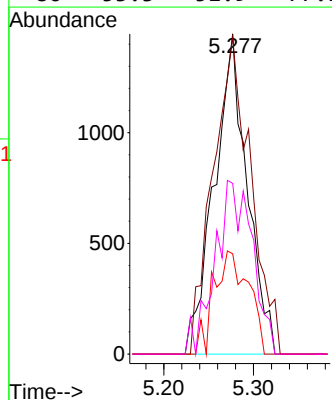
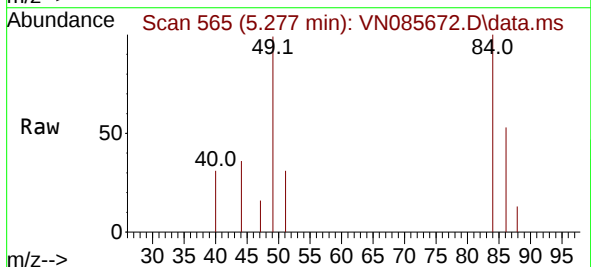


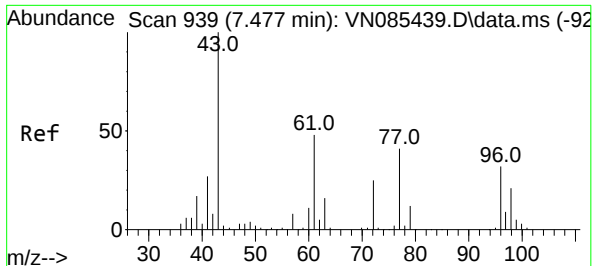
Tgt Ion: 43 Resp: 2119
Ion Ratio Lower Upper
43 100
74 7.0 18.6 28.0#



#20
Methylene Chloride
Concen: 1.360 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.006 min
Lab File: VN085672.D
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Tgt Ion: 84 Resp: 3674
Ion Ratio Lower Upper
84 100
49 99.0 104.1 156.1#
51 31.3 31.0 46.4
86 53.3 51.9 77.9

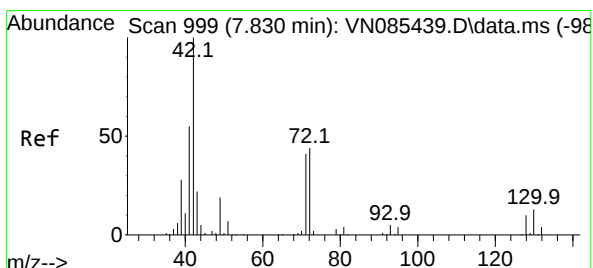
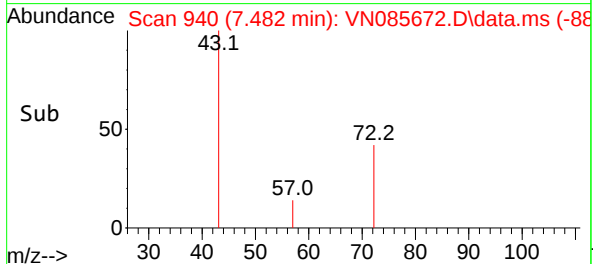
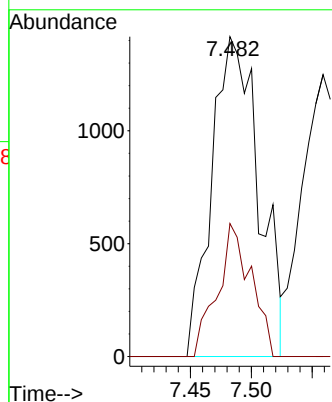
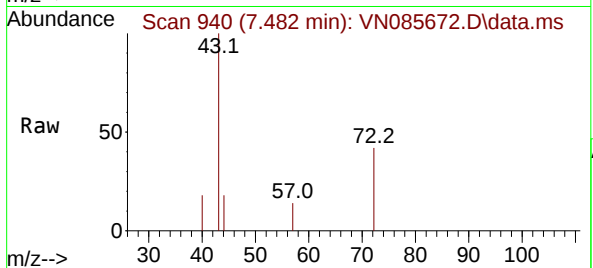




#25
2-Butanone
Concen: 2.368 ug/l
RT: 7.482 min Scan# 94
Delta R.T. 0.006 min
Lab File: VN085672.D
Acq: 05 Feb 2025 13:11

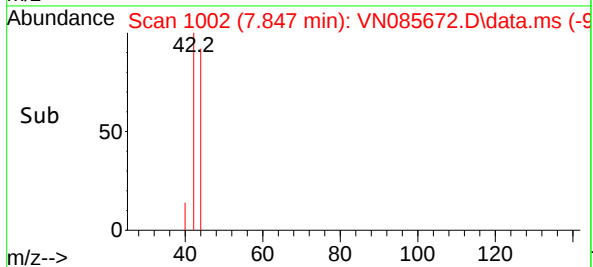
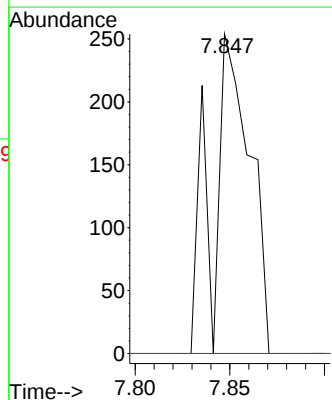
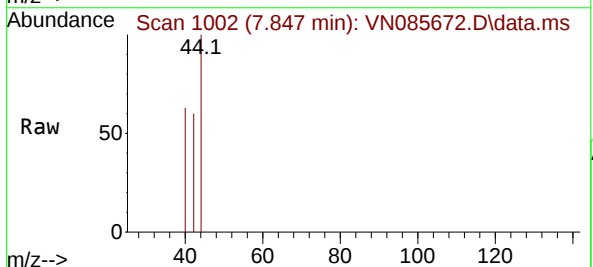
Instrument :
MSVOA_N
ClientSampleId :

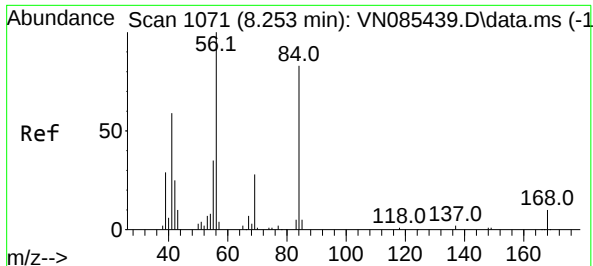
Tgt Ion: 43 Resp: 3803
Ion Ratio Lower Upper
43 100
72 41.6 20.2 30.4#



#29
Tetrahydrofuran
Concen: 0.345 ug/l
RT: 7.847 min Scan# 1002
Delta R.T. 0.018 min
Lab File: VN085672.D
Acq: 05 Feb 2025 13:11

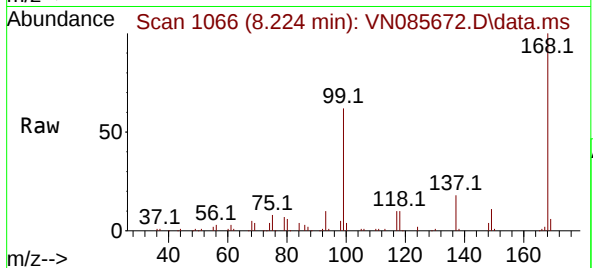
Tgt Ion: 42 Resp: 351
Ion Ratio Lower Upper
42 100
72 0.0 34.2 51.2#
71 0.0 32.5 48.7#



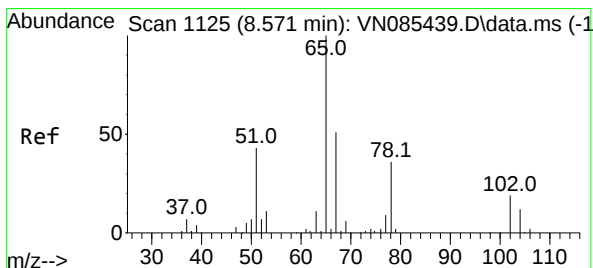
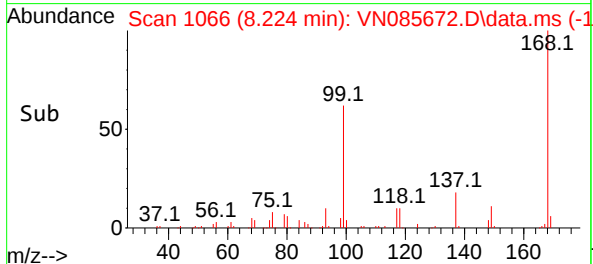
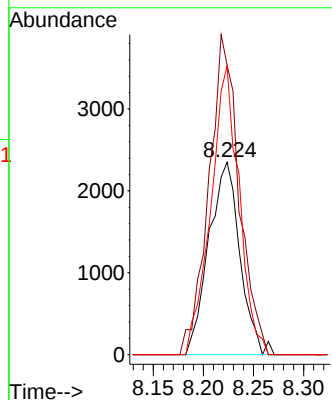


#31
Cyclohexane
Concen: 1.181 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.030 min
Lab File: VN085672.D
Acq: 05 Feb 2025 13:11

Instrument :
MSVOA_N
ClientSampleId :

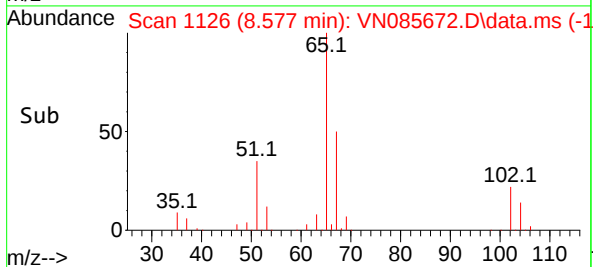
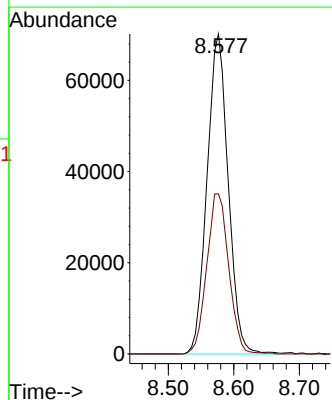
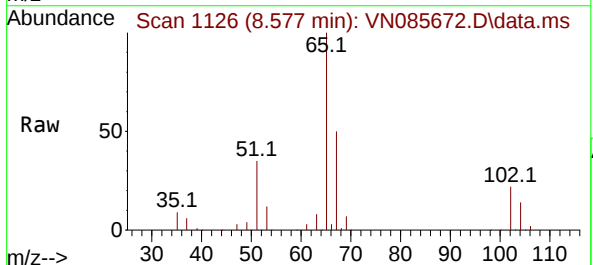


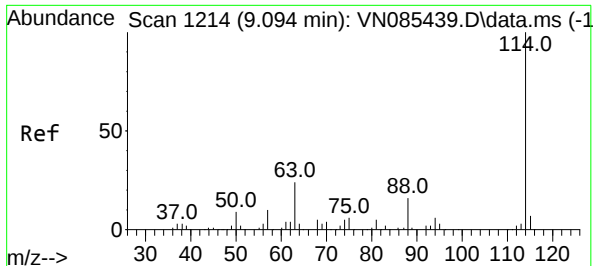
Tgt Ion: 56 Resp: 5062
Ion Ratio Lower Upper
56 100
69 150.4 22.2 33.4#
84 149.9 66.4 99.6#



#33
1,2-Dichloroethane-d4
Concen: 46.570 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.006 min
Lab File: VN085672.D
Acq: 05 Feb 2025 13:11

Tgt Ion: 65 Resp: 157300
Ion Ratio Lower Upper
65 100
67 52.1 0.0 101.6

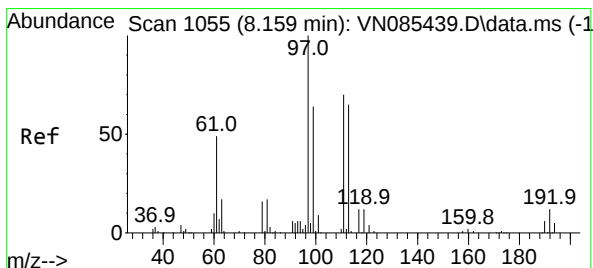
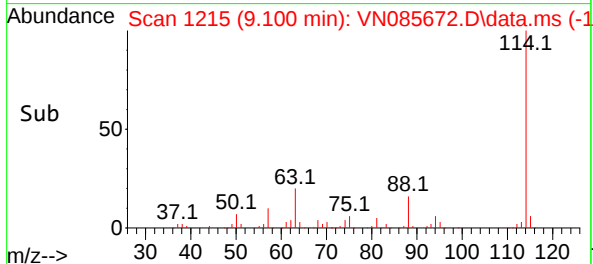
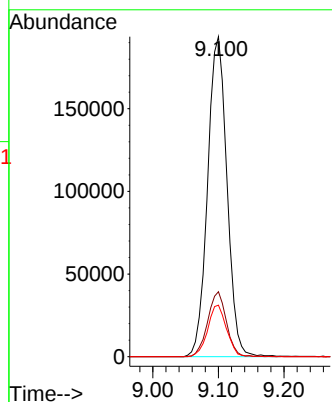
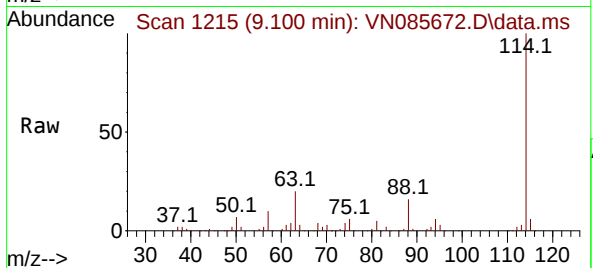




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN085672.D
Acq: 05 Feb 2025 13:11

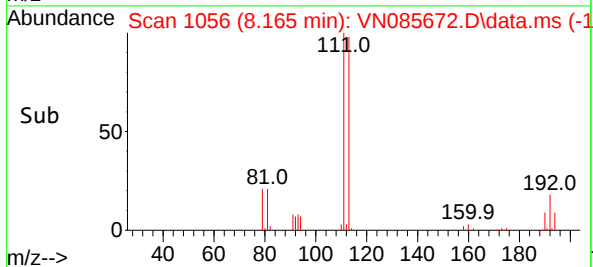
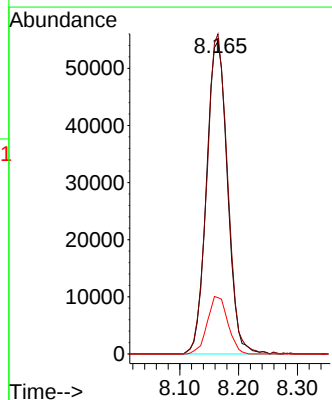
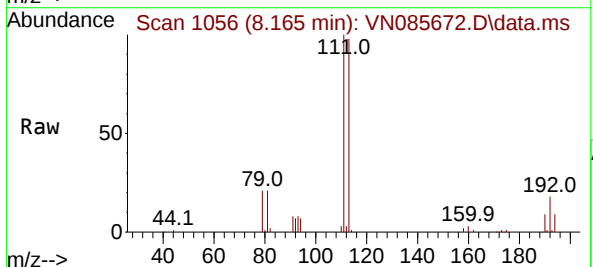
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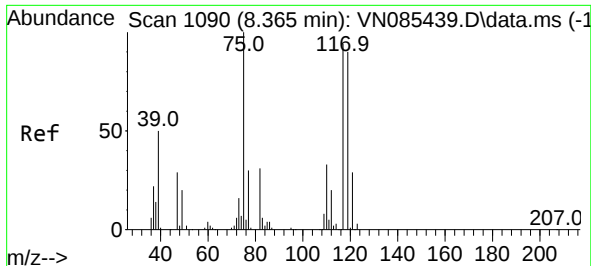
Tgt Ion:114 Resp: 398098
Ion Ratio Lower Upper
114 100
63 20.3 0.0 47.6
88 16.1 0.0 32.6



#35
Dibromofluoromethane
Concen: 49.116 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VN085672.D
Acq: 05 Feb 2025 13:11

Tgt Ion:113 Resp: 135650
Ion Ratio Lower Upper
113 100
111 101.2 82.7 124.1
192 17.9 14.3 21.5





#36

1,1-Dichloropropene

Concen: 4.496 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

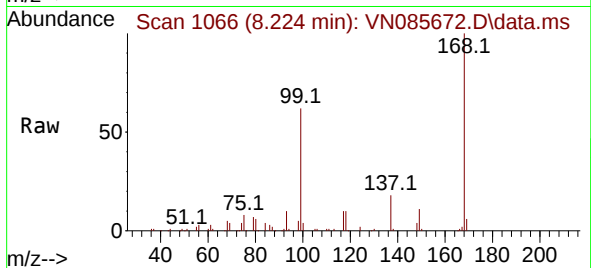
Lab File: VN085672.D

Acq: 05 Feb 2025 13:11

Instrument :

MSVOA_N

ClientSampleId :



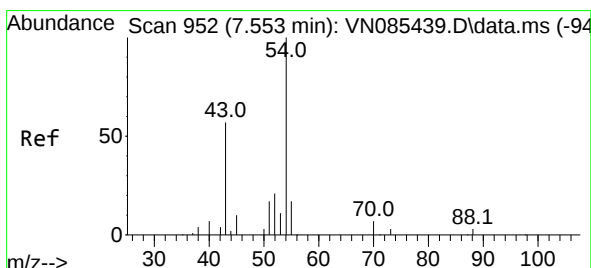
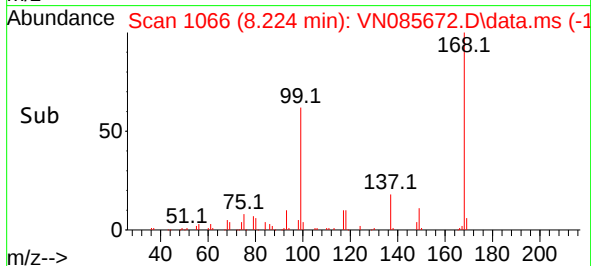
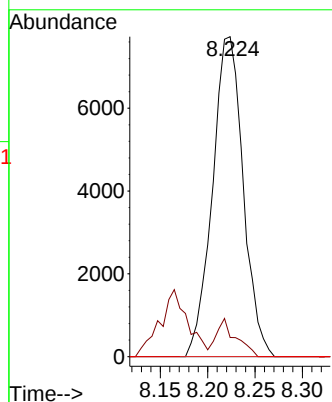
Tgt Ion: 75 Resp: 17429

Ion Ratio Lower Upper

75 100

110 7.5 16.5 49.5#

77 0.0 24.4 36.6#



#37

Ethyl Acetate

Concen: 0.849 ug/l

RT: 7.571 min Scan# 955

Delta R.T. 0.018 min

Lab File: VN085672.D

Acq: 05 Feb 2025 13:11

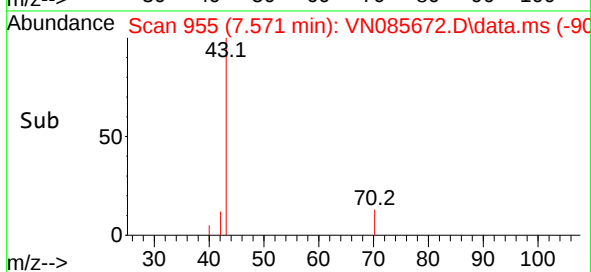
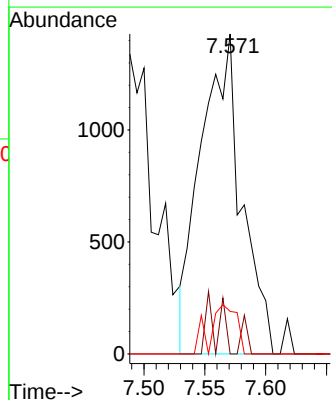
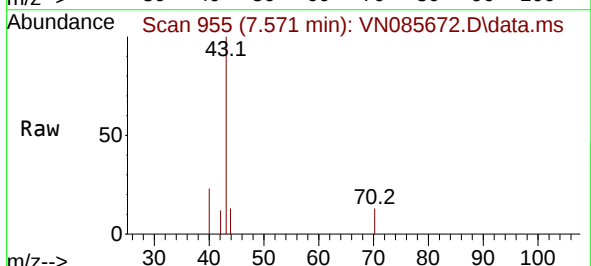
Tgt Ion: 43 Resp: 3321

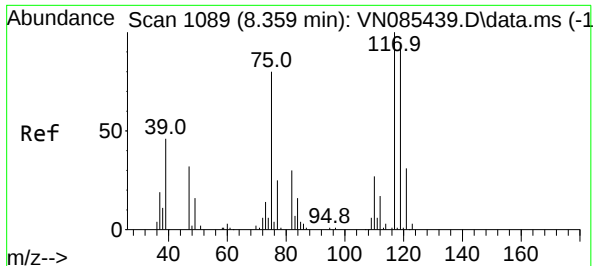
Ion Ratio Lower Upper

43 100

61 1.8 10.9 16.3#

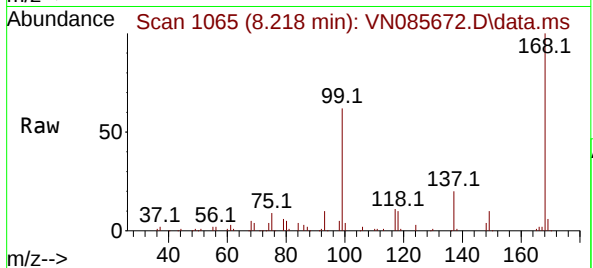
70 10.1 7.5 11.3



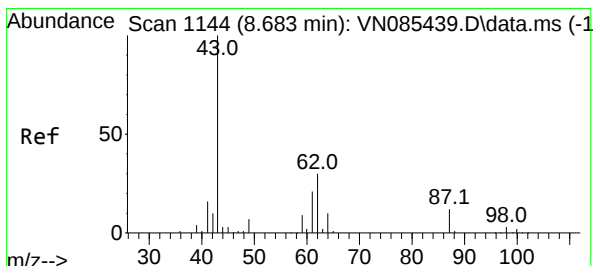
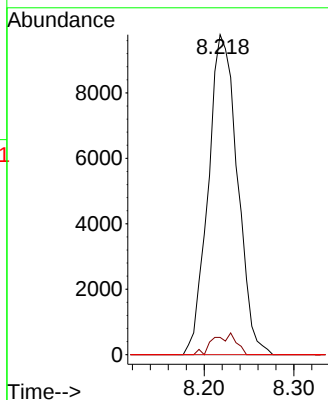
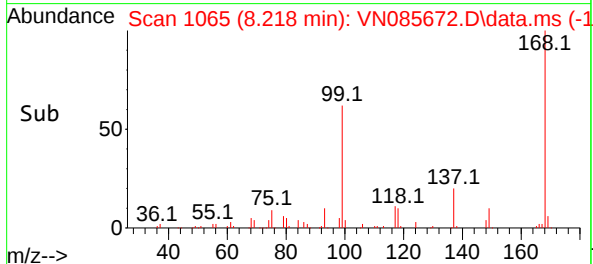


#38
Carbon Tetrachloride
Concen: 4.992 ug/l
RT: 8.218 min Scan# 1105
Delta R.T. -0.141 min
Lab File: VN085672.D
Acq: 05 Feb 2025 13:11

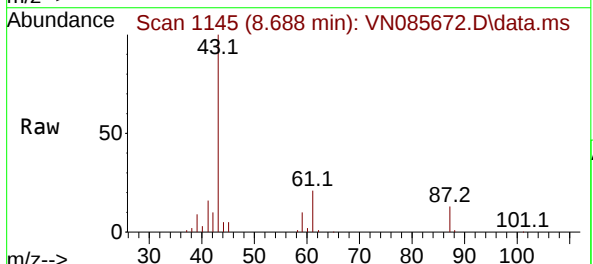
Instrument :
MSVOA_N
ClientSampleId :



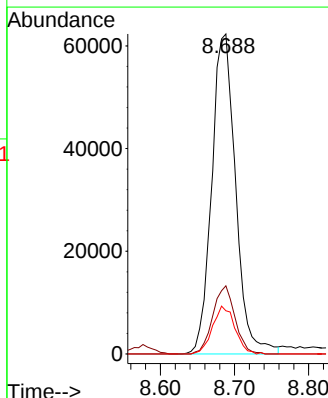
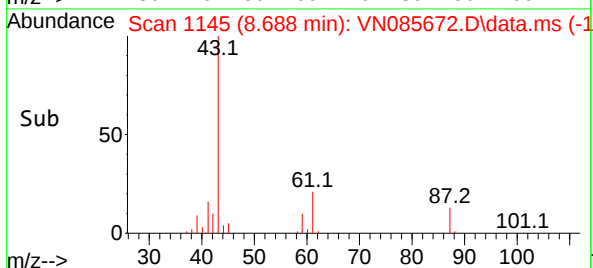
Tgt Ion:117 Resp: 22154
Ion Ratio Lower Upper
117 100
119 5.4 75.4 113.2#
121 0.0 24.6 37.0#

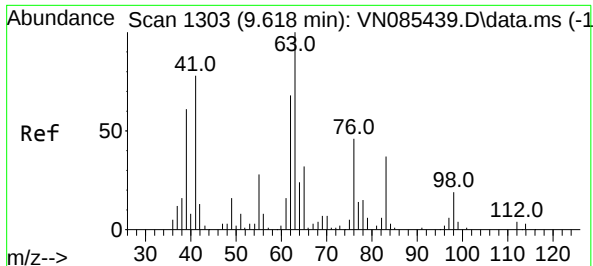


#43
Isopropyl Acetate
Concen: 22.306 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.006 min
Lab File: VN085672.D
Acq: 05 Feb 2025 13:11



Tgt Ion: 43 Resp: 139836
Ion Ratio Lower Upper
43 100
61 19.7 20.7 31.1#
87 14.0 9.8 14.8





#45

1,2-Dichloropropane

Concen: 0.626 ug/l

RT: 9.735 min Scan# 1323

Delta R.T. 0.118 min

Lab File: VN085672.D

Acq: 05 Feb 2025 13:11

Instrument :

MSVOA_N

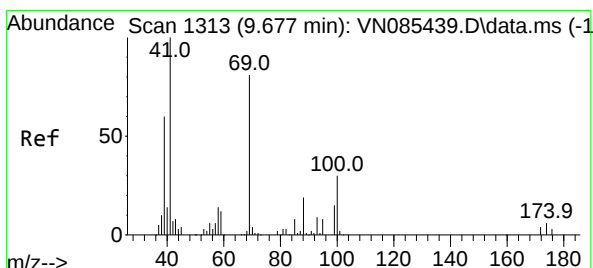
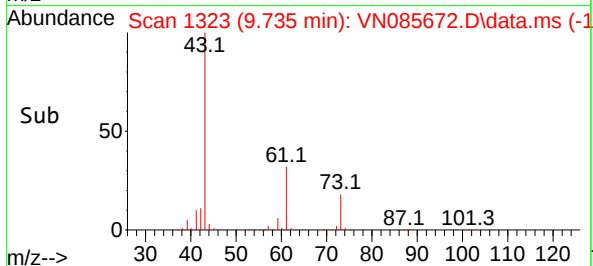
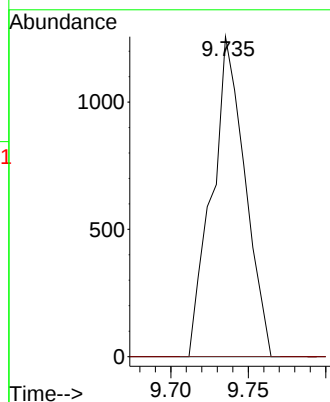
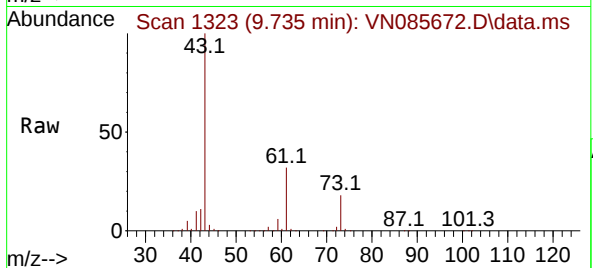
ClientSampleId :

Tgt Ion: 63 Resp: 1863

Ion Ratio Lower Upper

63 100

65 0.0 25.6 38.4#



#48

Methyl methacrylate

Concen: 47.011 ug/l

RT: 9.735 min Scan# 1323

Delta R.T. 0.058 min

Lab File: VN085672.D

Acq: 05 Feb 2025 13:11

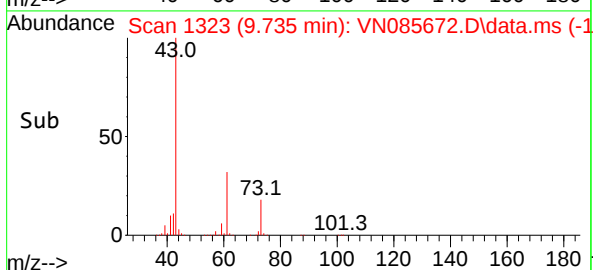
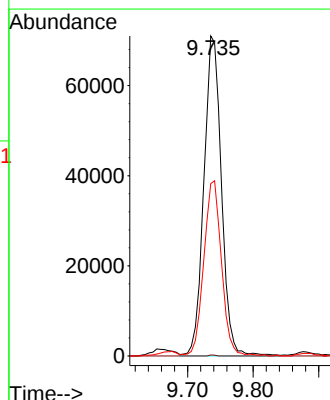
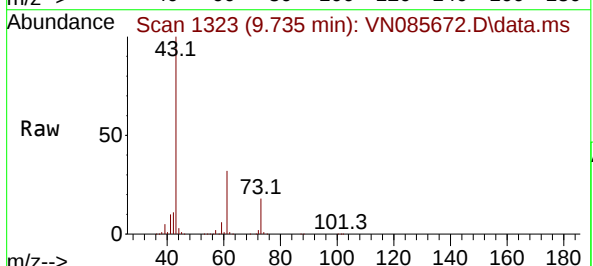
Tgt Ion: 41 Resp: 132630

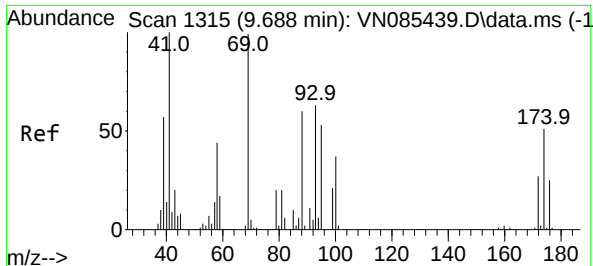
Ion Ratio Lower Upper

41 100

69 0.1 64.7 97.1#

39 55.2 49.0 73.6





#49

1,4-Dioxane

Concen: 2.610 ug/l

RT: 9.741 min Scan# 11

Delta R.T. 0.053 min

Lab File: VN085672.D

Acq: 05 Feb 2025 13:11

Instrument :

MSVOA_N

ClientSampleId :

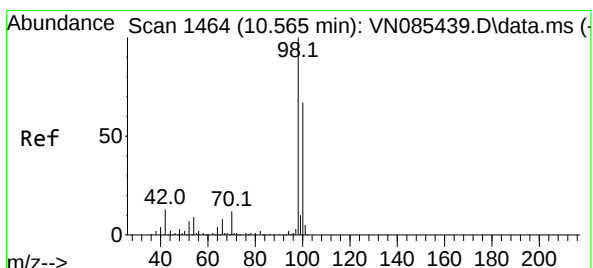
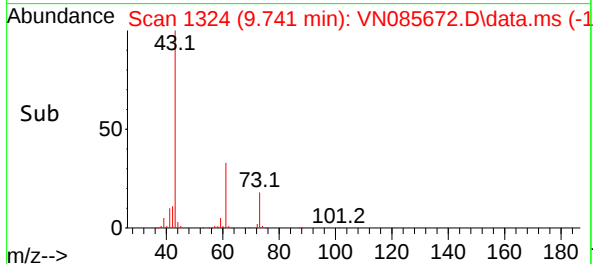
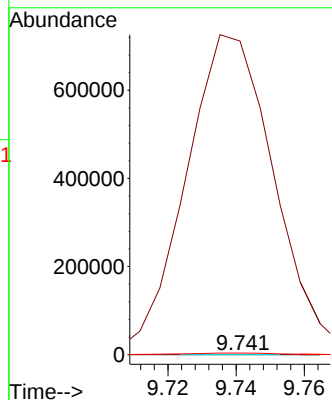
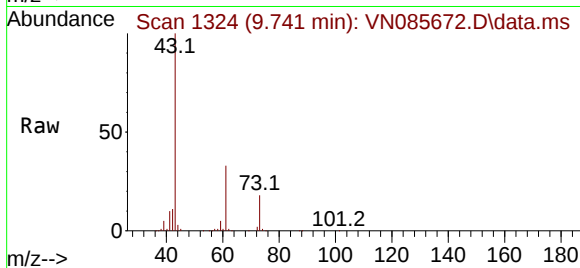
Tgt Ion: 88 Resp: 124

Ion Ratio Lower Upper

88 100

43 1068178.2 26.6 39.8#

58 6059.7 59.5 89.3#



#50

Toluene-d8

Concen: 52.571 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN085672.D

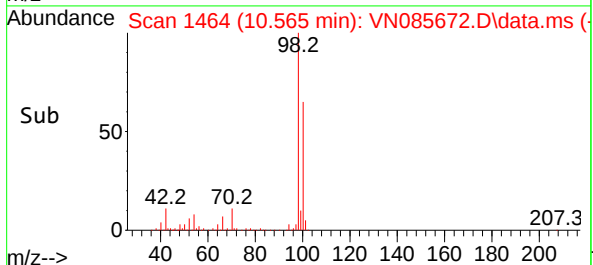
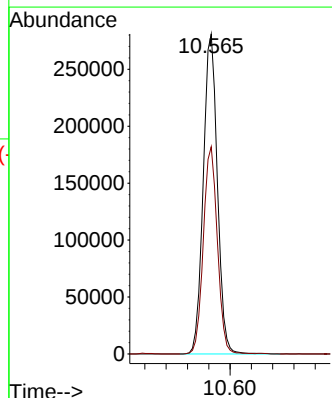
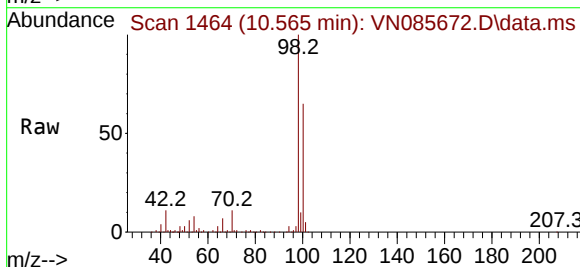
Acq: 05 Feb 2025 13:11

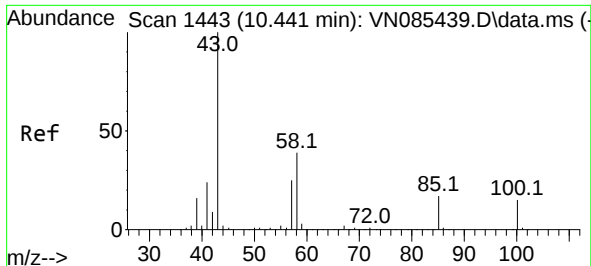
Tgt Ion: 98 Resp: 515862

Ion Ratio Lower Upper

98 100

100 64.3 52.2 78.4

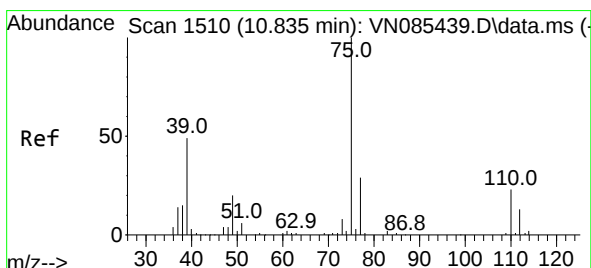
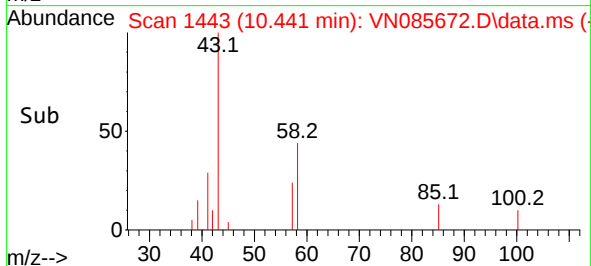
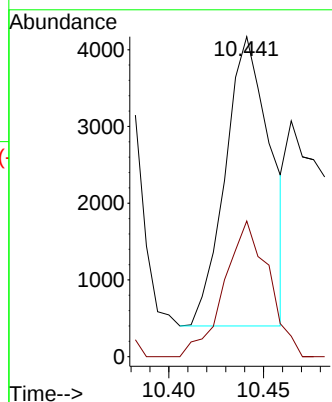
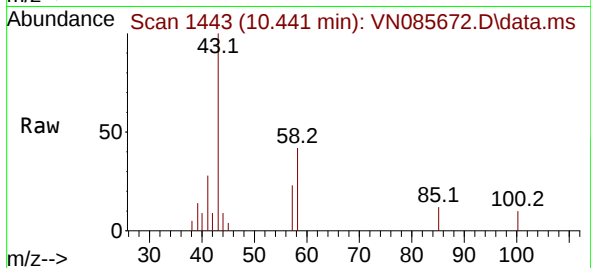




#51
4-Methyl-2-Pentanone
Concen: 1.719 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085672.D
Acq: 05 Feb 2025 13:11

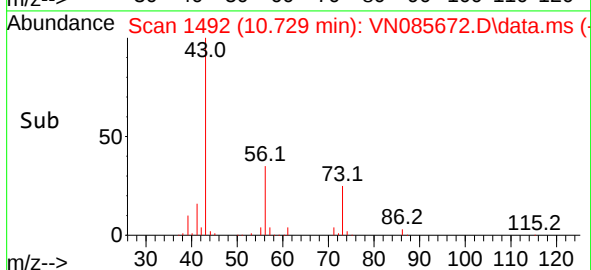
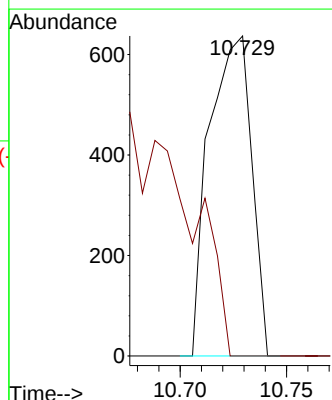
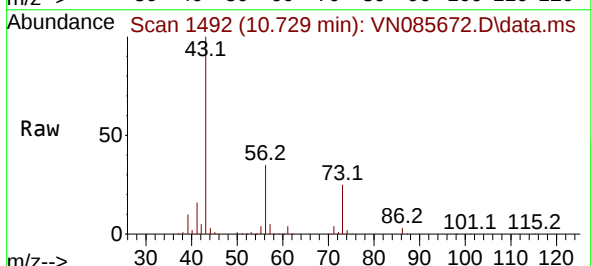
Instrument :
MSVOA_N
ClientSampleId :

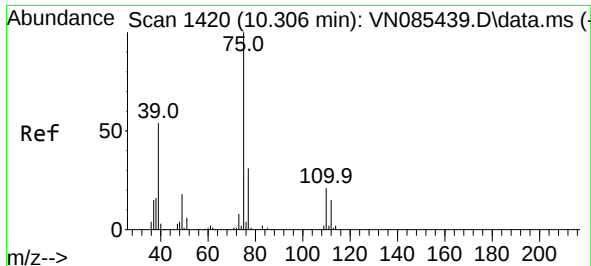
Tgt Ion: 43 Resp: 6252
Ion Ratio Lower Upper
43 100
58 46.1 30.5 45.7#



#53
t-1,3-Dichloropropene
Concen: 0.213 ug/l
RT: 10.729 min Scan# 1492
Delta R.T. -0.106 min
Lab File: VN085672.D
Acq: 05 Feb 2025 13:11

Tgt Ion: 75 Resp: 881
Ion Ratio Lower Upper
75 100
77 0.0 23.5 35.3#

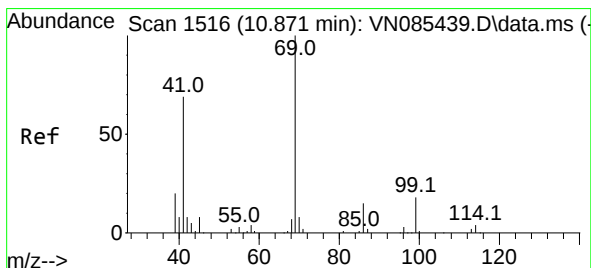
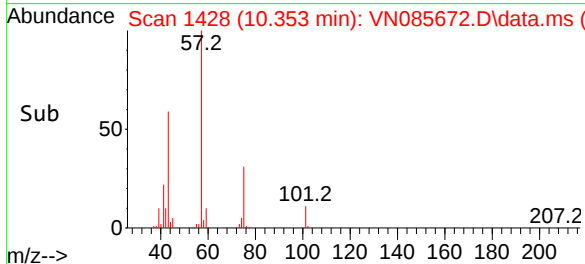
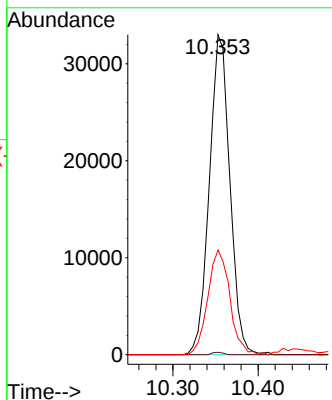
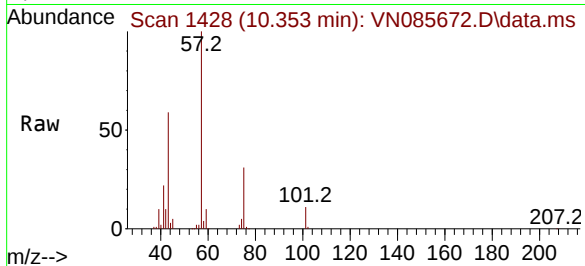




#54
cis-1,3-Dichloropropene
Concen: 12.520 ug/l
RT: 10.353 min Scan# 1428
Delta R.T. 0.047 min
Lab File: VN085672.D
Acq: 05 Feb 2025 13:11

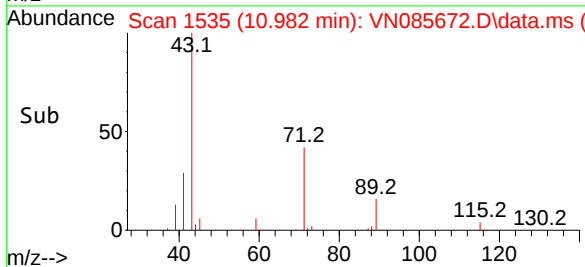
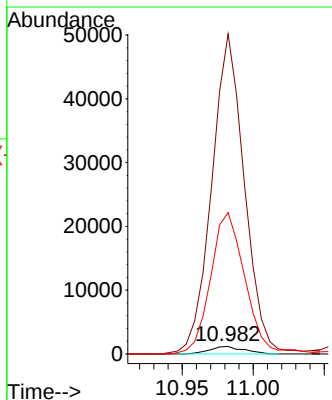
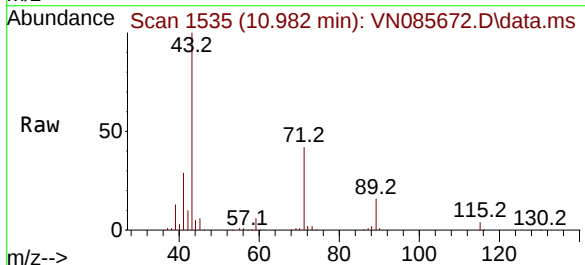
Instrument :
MSVOA_N
ClientSampleId :

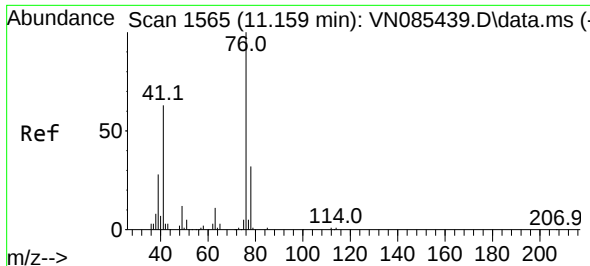
Tgt Ion: 75 Resp: 55267
Ion Ratio Lower Upper
75 100
77 0.8 25.0 37.4#
39 32.6 43.1 64.7#



#56
Ethyl methacrylate
Concen: 2.350 ug/l
RT: 10.982 min Scan# 1535
Delta R.T. 0.111 min
Lab File: VN085672.D
Acq: 05 Feb 2025 13:11

Tgt Ion: 69 Resp: 1961
Ion Ratio Lower Upper
69 100
41 4101.3 54.6 82.0#
39 1912.6 32.4 48.6#





#57

1,3-Dichloropropane

Concen: 1.716 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.041 min

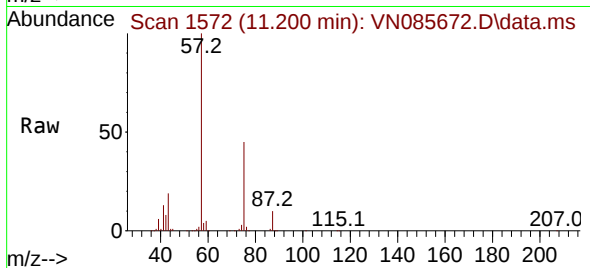
Lab File: VN085672.D

Acq: 05 Feb 2025 13:11

Instrument :

MSVOA_N

ClientSampleId :

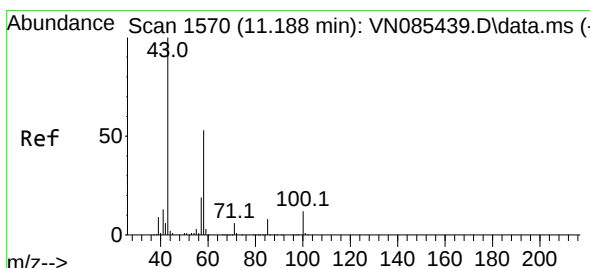
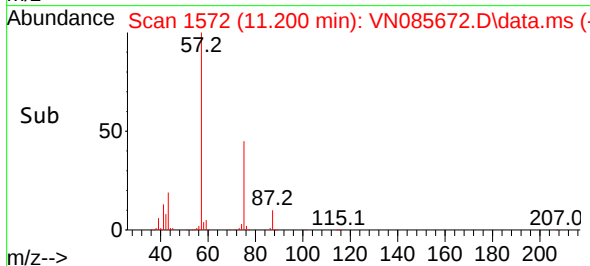
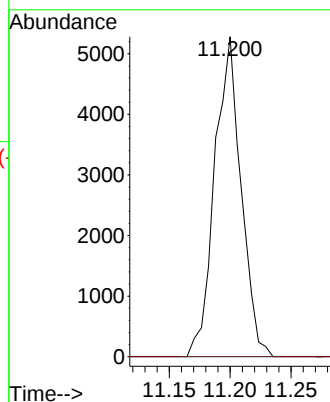


Tgt Ion: 76 Resp: 7968

Ion Ratio Lower Upper

76 100

78 0.0 25.6 38.4#



#59

2-Hexanone

Concen: 37.228 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.012 min

Lab File: VN085672.D

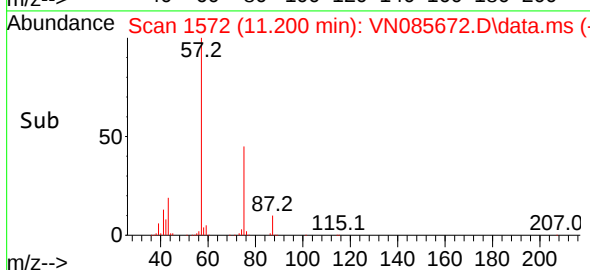
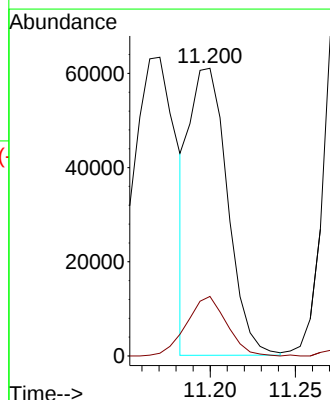
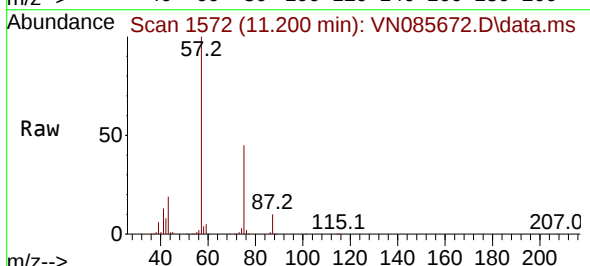
Acq: 05 Feb 2025 13:11

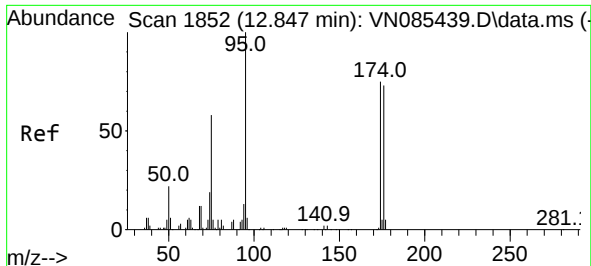
Tgt Ion: 43 Resp: 95294

Ion Ratio Lower Upper

43 100

58 21.8 26.2 78.6#

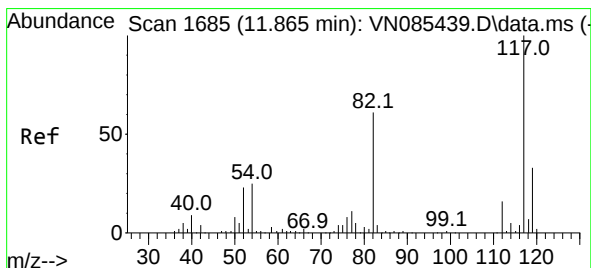
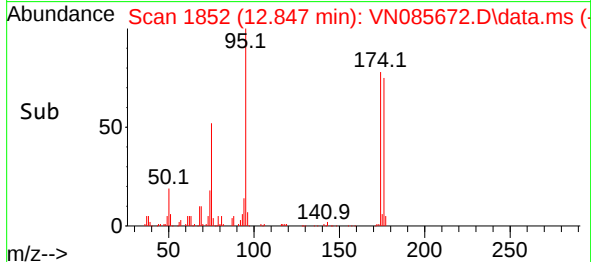
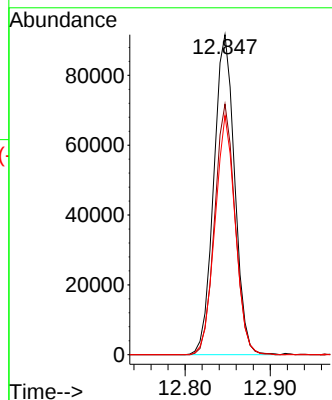
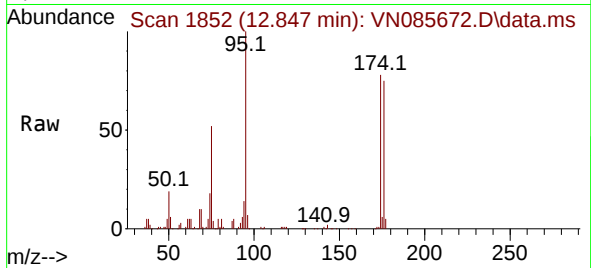




#62
4-Bromofluorobenzene
Concen: 46.491 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085672.D
Acq: 05 Feb 2025 13:11

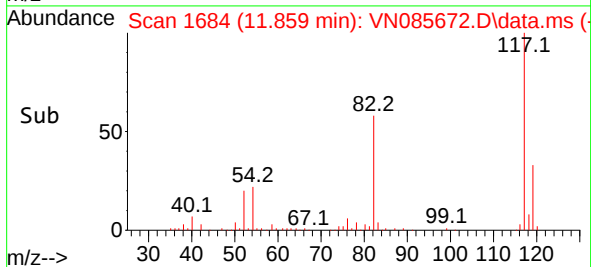
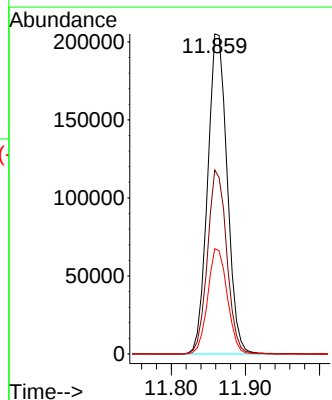
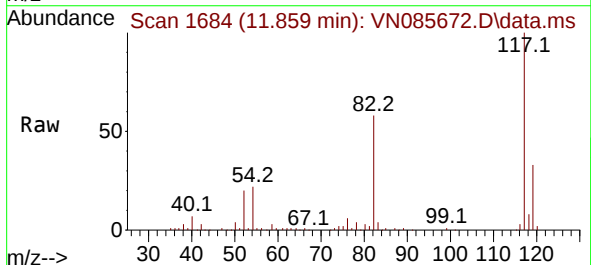
Instrument :
MSVOA_N
ClientSampleId :

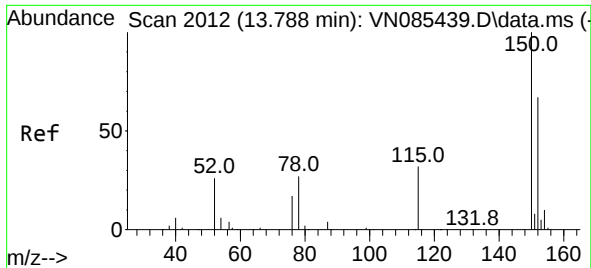
Tgt Ion: 95 Resp: 156055
Ion Ratio Lower Upper
95 100
174 76.5 0.0 145.0
176 72.7 0.0 142.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.859 min Scan# 1684
Delta R.T. -0.006 min
Lab File: VN085672.D
Acq: 05 Feb 2025 13:11

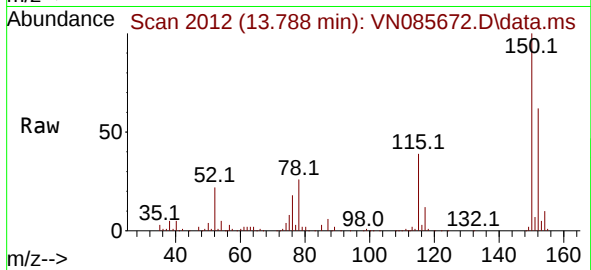
Tgt Ion: 117 Resp: 375948
Ion Ratio Lower Upper
117 100
82 57.5 48.6 72.8
119 32.9 26.6 39.8



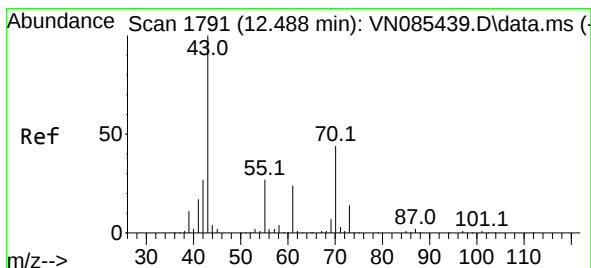
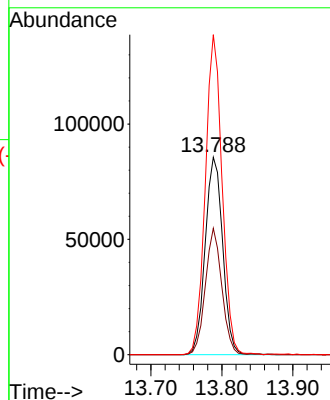
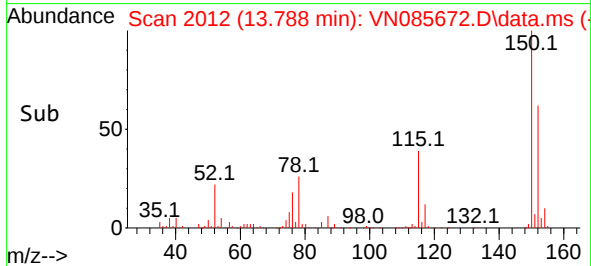


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.788 min Scan# 20
 Delta R.T. -0.000 min
 Lab File: VN085672.D
 Acq: 05 Feb 2025 13:11

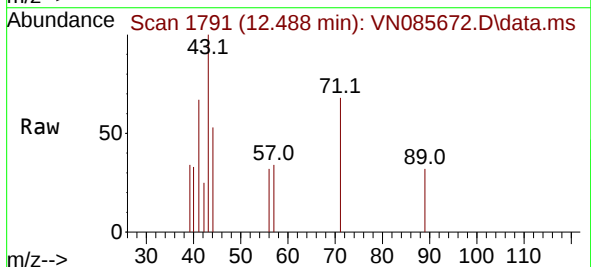
Instrument :
 MSVOA_N
 ClientSampleId :



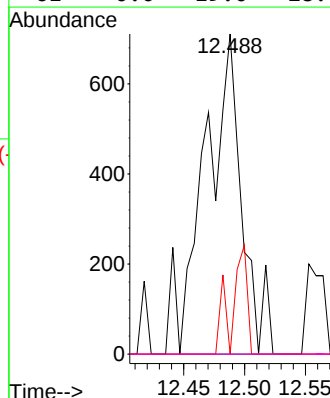
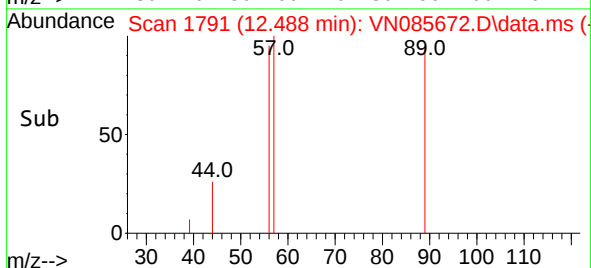
Tgt Ion:152 Resp: 146674
 Ion Ratio Lower Upper
 152 100
 115 60.4 31.1 93.3
 150 155.3 0.0 343.6

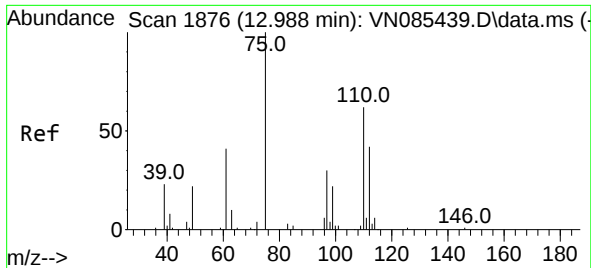


#74
 N-ethyl acetate
 Concen: 0.326 ug/l
 RT: 12.488 min Scan# 1791
 Delta R.T. -0.000 min
 Lab File: VN085672.D
 Acq: 05 Feb 2025 13:11



Tgt Ion: 43 Resp: 1450
 Ion Ratio Lower Upper
 43 100
 70 0.0 34.0 51.0#
 55 14.8 21.4 32.2#
 61 0.0 19.0 28.4#

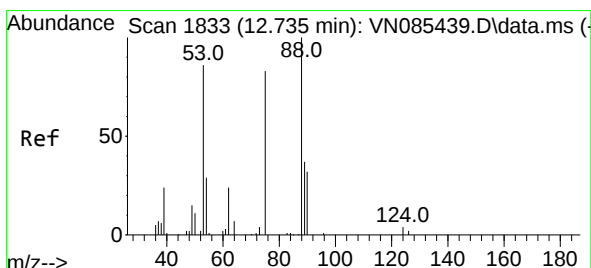
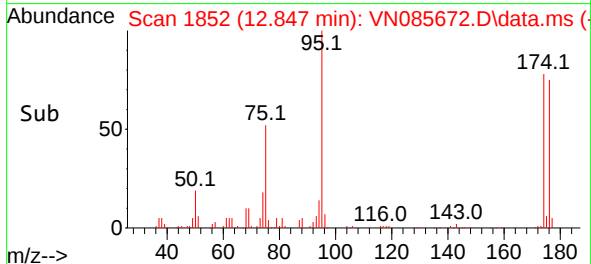
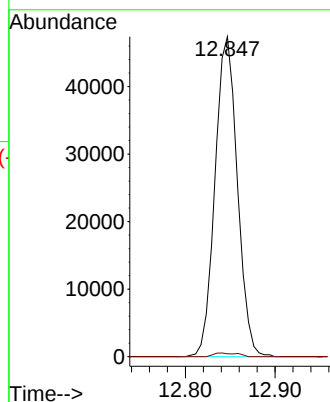
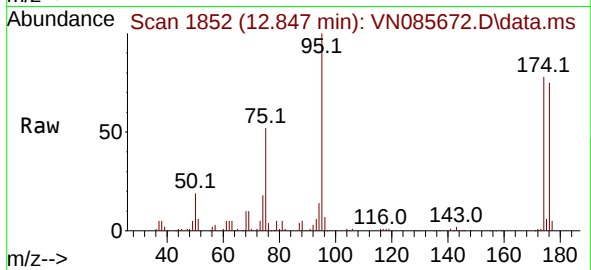




#76
1,2,3-Trichloropropane
Concen: 27.468 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN085672.D
Acq: 05 Feb 2025 13:11

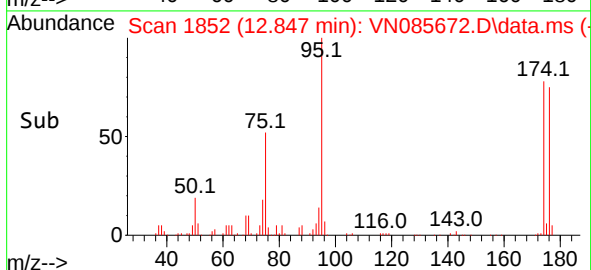
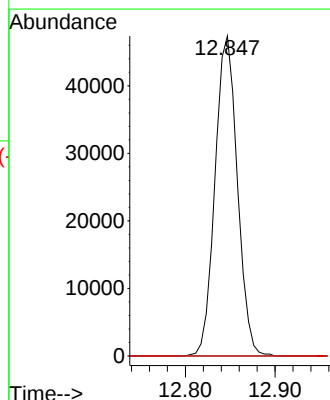
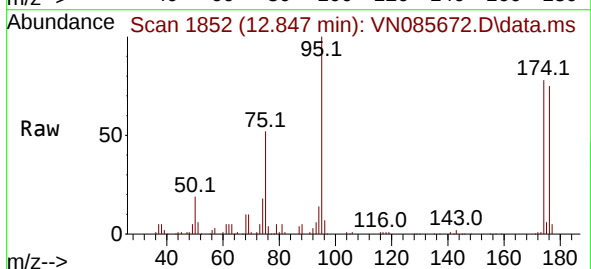
Instrument :
MSVOA_N
ClientSampleId :

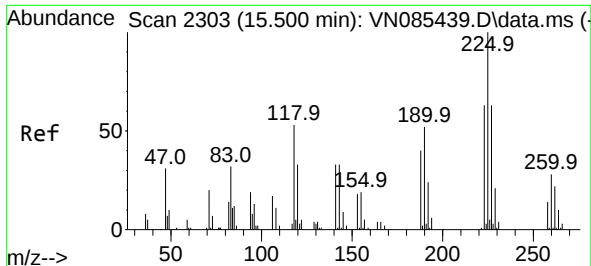
Tgt Ion: 75 Resp: 81886
Ion Ratio Lower Upper
75 100
77 1.2 109.7 329.2#



#81
trans-1,4-Dichloro-2-butene
Concen: 74.316 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN085672.D
Acq: 05 Feb 2025 13:11

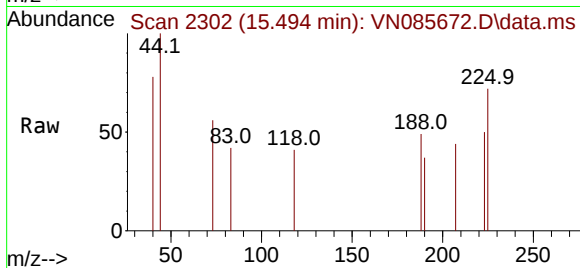
Tgt Ion: 75 Resp: 81886
Ion Ratio Lower Upper
75 100
53 0.0 95.6 143.4#
89 0.0 37.0 55.6#



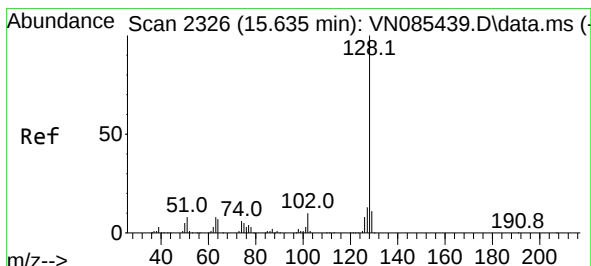
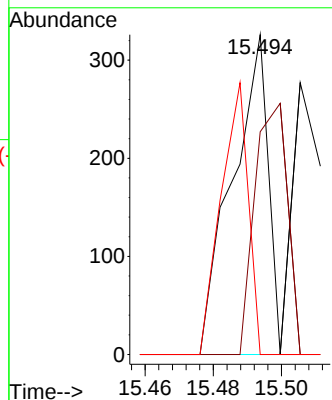
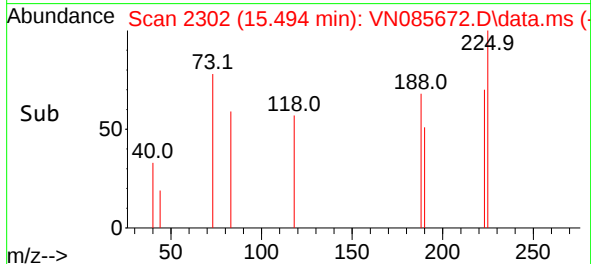


#94
Hexachlorobutadiene
Concen: 0.202 ug/l
RT: 15.494 min Scan# 21
Delta R.T. -0.006 min
Lab File: VN085672.D
Acq: 05 Feb 2025 13:11

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion:225 Resp: 237
Ion Ratio Lower Upper
225 100
223 71.7 30.7 92.1
227 64.6 30.9 92.5



#95
Naphthalene
Concen: 0.250 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. -0.000 min
Lab File: VN085672.D
Acq: 05 Feb 2025 13:11

Tgt Ion:128 Resp: 1649
Ion Ratio Lower Upper
128 100
127 3.8 10.6 16.0#
129 0.0 8.8 13.2#

