

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN013125\
 Data File : VN085610.D
 Acq On : 31 Jan 2025 18:28
 Operator : JC\MD
 Sample : PB166357ZHE#15
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jan 31 22:33:25 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

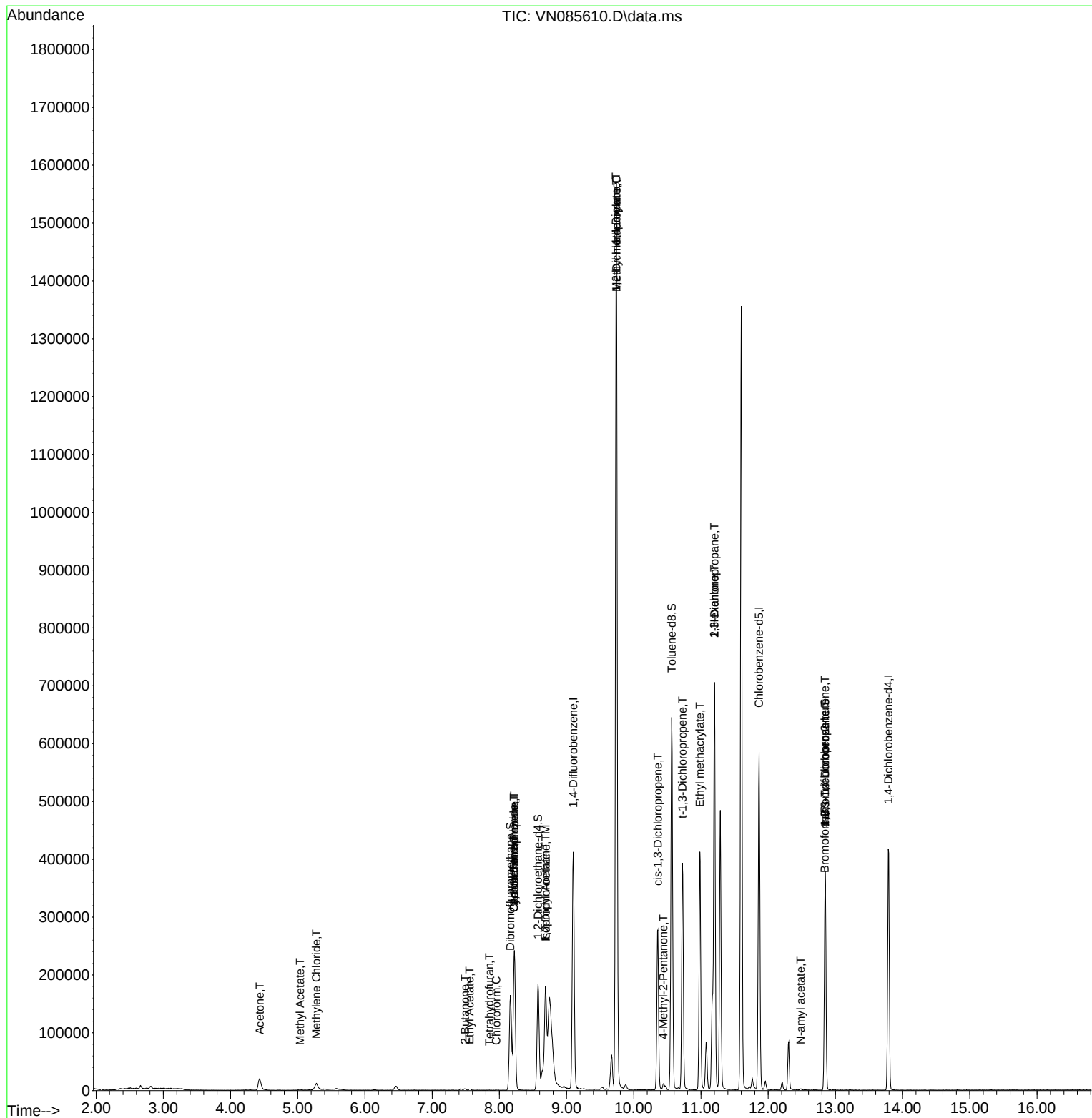
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.224	168	163859	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	329830	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	311231	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	108090	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	154855	58.546	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 117.100%			
35) Dibromofluoromethane	8.165	113	114756	50.151	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.300%			
50) Toluene-d8	10.565	98	428150	52.663	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 105.320%			
62) 4-Bromofluorobenzene	12.847	95	124546	44.784	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 89.560%			
Target Compounds					Qvalue	
16) Acetone	4.436	43	39806	46.577	ug/l	96
18) Methyl Acetate	5.036	43	3814	1.468	ug/l #	63
20) Methylene Chloride	5.277	84	7795	3.684	ug/l	98
25) 2-Butanone	7.489	43	4461	3.547	ug/l #	88
29) Tetrahydrofuran	7.853	42	324	0.406	ug/l #	34
30) Chloroform	7.953	83	1000	0.251	ug/l #	80
31) Cyclohexane	8.218	56	4966	1.479	ug/l #	10
36) 1,1-Dichloropropene	8.224	75	15464	4.815	ug/l #	51
37) Ethyl Acetate	7.559	43	3808	1.175	ug/l #	86
38) Carbon Tetrachloride	8.218	117	18329	4.985	ug/l #	19
42) 1,2-Dichloroethane	8.688	62	898	0.247	ug/l #	76
43) Isopropyl Acetate	8.688	43	227320	43.766	ug/l #	79
45) 1,2-Dichloropropane	9.741	63	1751	0.710	ug/l #	43
48) Methyl methacrylate	9.741	41	145717	62.341	ug/l #	46
49) 1,4-Dioxane	9.735	88	165	4.192	ug/l #	1
51) 4-Methyl-2-Pentanone	10.441	43	11487	3.811	ug/l #	72
53) t-1,3-Dichloropropene	10.724	75	1102	0.322	ug/l #	45
54) cis-1,3-Dichloropropene	10.359	75	44827	12.256	ug/l #	70
56) Ethyl methacrylate	10.982	69	2266	2.516	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	6972	1.812	ug/l #	43
59) 2-Hexanone	11.200	43	86998	41.022	ug/l #	58
71) Bromoform	12.841	173	892	0.498	ug/l #	1
74) N-amyl acetate	12.482	43	1542	0.470	ug/l #	42
76) 1,2,3-Trichloropropane	12.847	75	69913	31.823	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	69913	86.098	ug/l #	3

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

Instrument :
MSVOA_N
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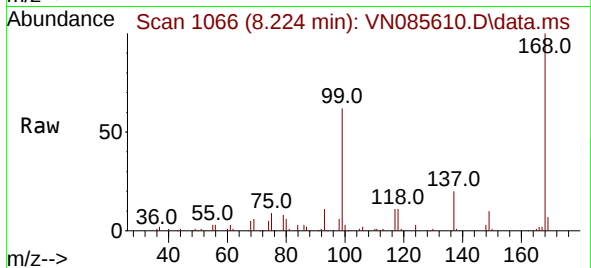
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ClientSampleId :



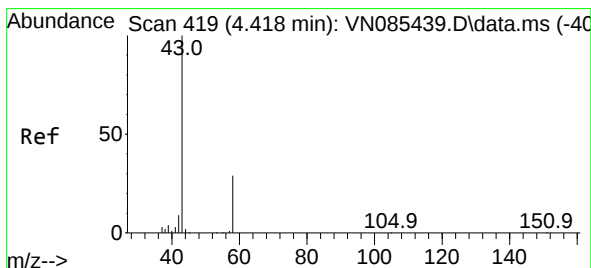
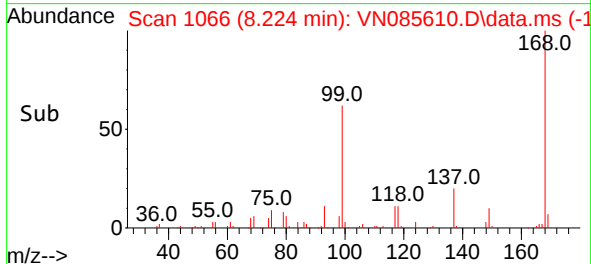
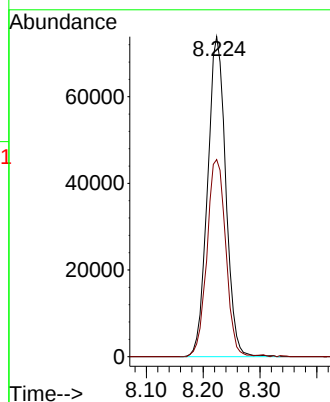


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN085610.D
Acq: 31 Jan 2025 18:28

Instrument :
MSVOA_N
ClientSampleId :

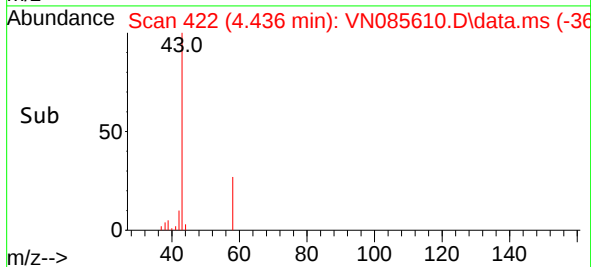
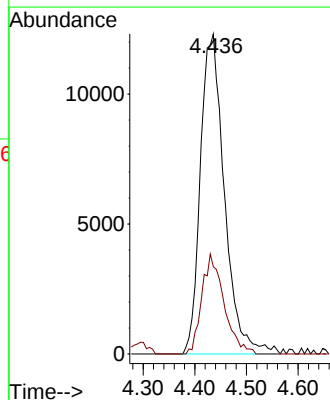
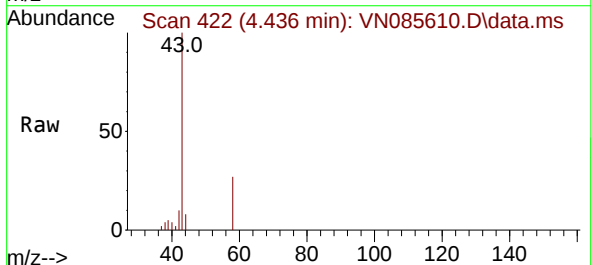


Tgt Ion:168 Resp: 163859
Ion Ratio Lower Upper
168 100
99 61.6 53.6 80.4



#16
Acetone
Concen: 46.577 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.018 min
Lab File: VN085610.D
Acq: 31 Jan 2025 18:28

Tgt Ion: 43 Resp: 39806
Ion Ratio Lower Upper
43 100
58 27.3 23.8 35.6

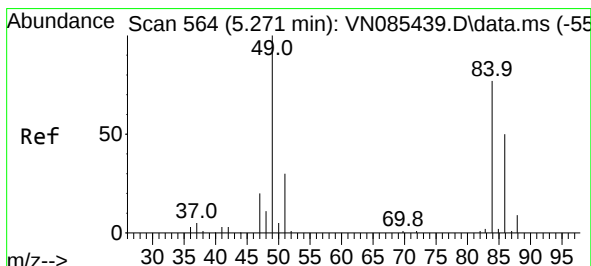
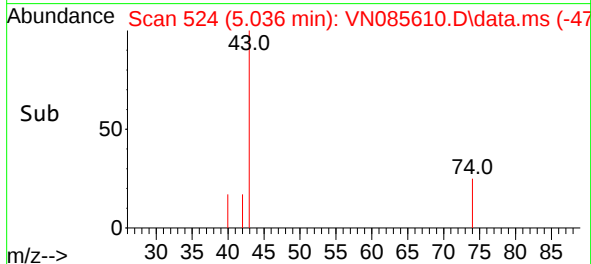
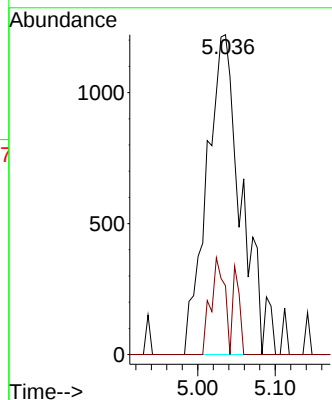
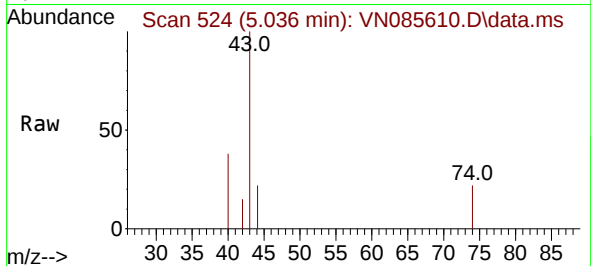




#18
Methyl Acetate
Concen: 1.468 ug/l
RT: 5.036 min Scan# 51
Delta R.T. 0.018 min
Lab File: VN085610.D
Acq: 31 Jan 2025 18:28

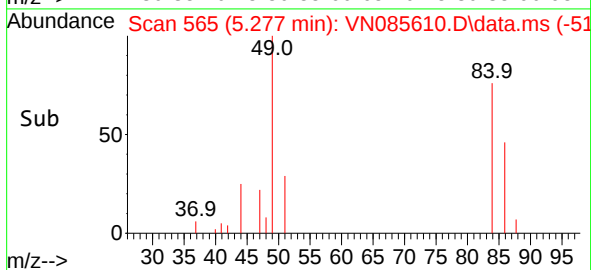
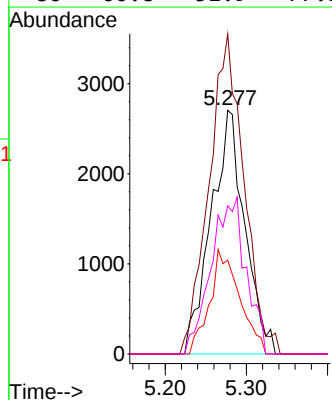
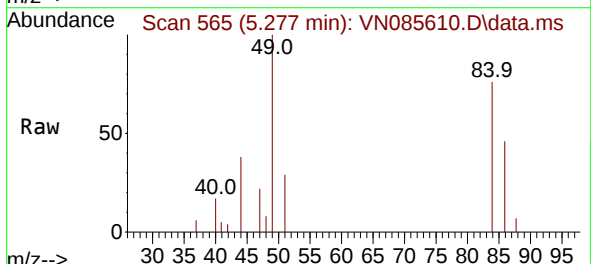
Instrument :
MSVOA_N
ClientSampleId :

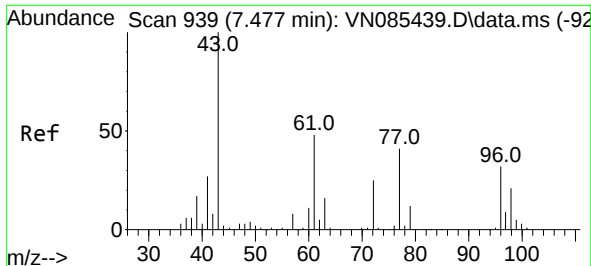
Tgt Ion: 43 Resp: 3814
Ion Ratio Lower Upper
43 100
74 5.3 18.6 28.0#



#20
Methylene Chloride
Concen: 3.684 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.006 min
Lab File: VN085610.D
Acq: 31 Jan 2025 18:28

Tgt Ion: 84 Resp: 7795
Ion Ratio Lower Upper
84 100
49 131.3 104.1 156.1
51 38.6 31.0 46.4
86 60.8 51.9 77.9





#25

2-Butanone

Concen: 3.547 ug/l

RT: 7.489 min Scan# 941

Delta R.T. 0.012 min

Lab File: VN085610.D

Acq: 31 Jan 2025 18:28

Instrument :

MSVOA_N

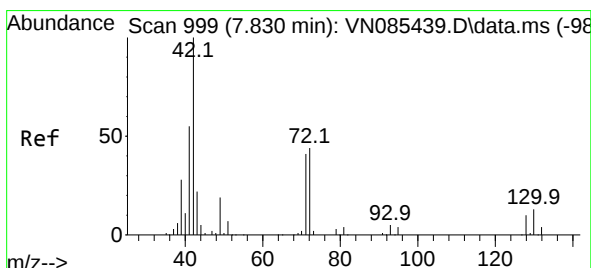
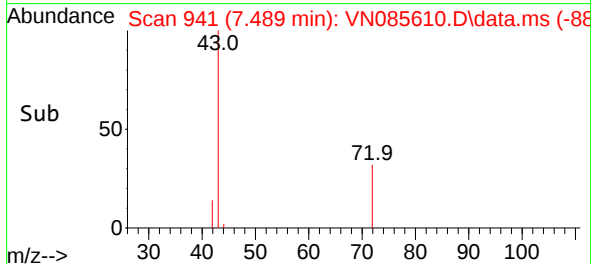
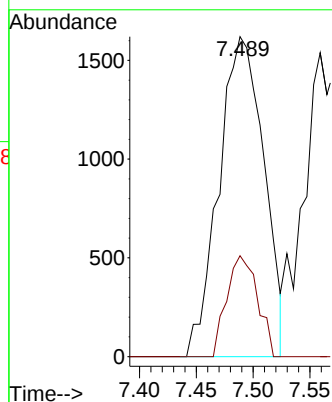
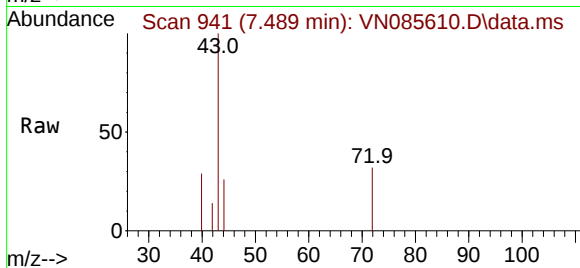
ClientSampleId :

Tgt Ion: 43 Resp: 4461

Ion Ratio Lower Upper

43 100

72 31.5 20.2 30.4#



#29

Tetrahydrofuran

Concen: 0.406 ug/l

RT: 7.853 min Scan# 1003

Delta R.T. 0.024 min

Lab File: VN085610.D

Acq: 31 Jan 2025 18:28

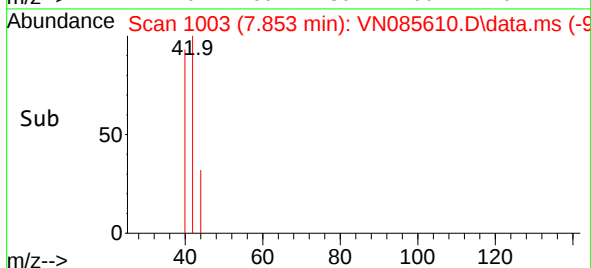
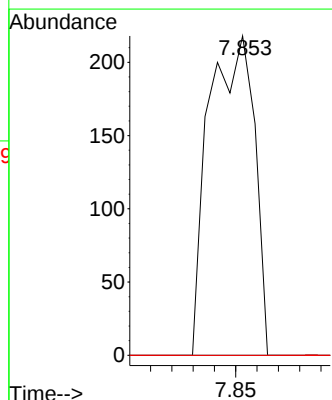
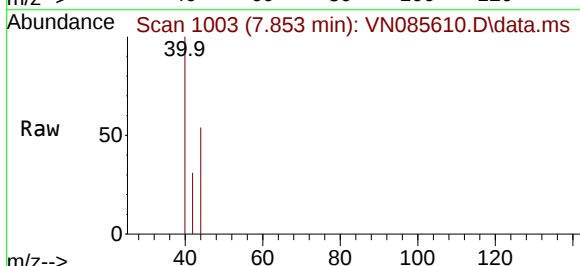
Tgt Ion: 42 Resp: 324

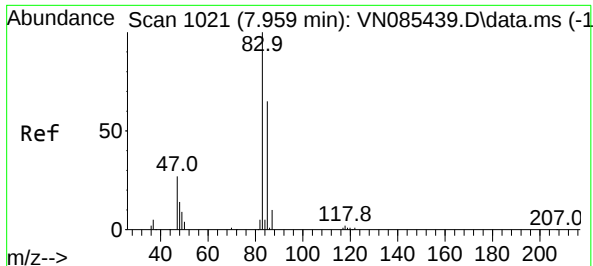
Ion Ratio Lower Upper

42 100

72 0.0 34.2 51.2#

71 0.0 32.5 48.7#





#30

Chloroform

Concen: 0.251 ug/l

RT: 7.953 min Scan# 1065

Delta R.T. -0.006 min

Lab File: VN085610.D

Acq: 31 Jan 2025 18:28

Instrument :

MSVOA_N

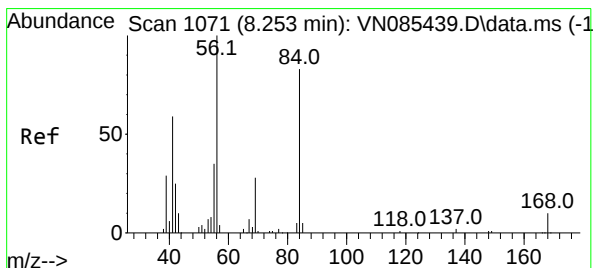
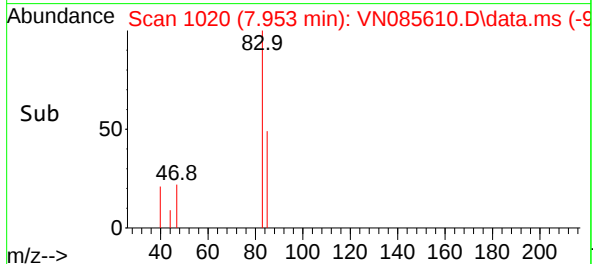
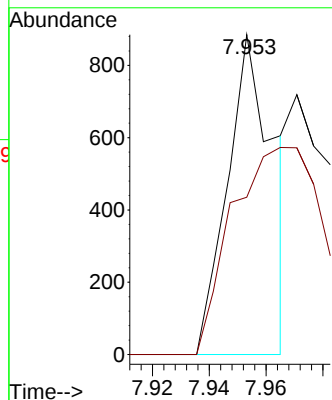
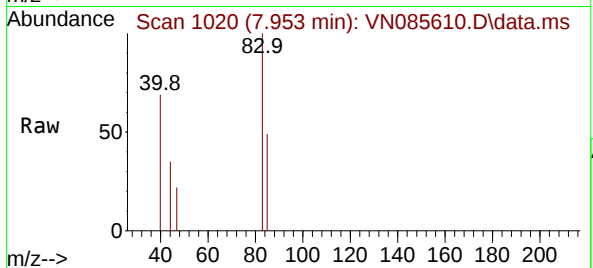
ClientSampleId :

Tgt Ion: 83 Resp: 1000

Ion Ratio Lower Upper

83 100

85 49.2 51.8 77.6#



#31

Cyclohexane

Concen: 1.479 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.035 min

Lab File: VN085610.D

Acq: 31 Jan 2025 18:28

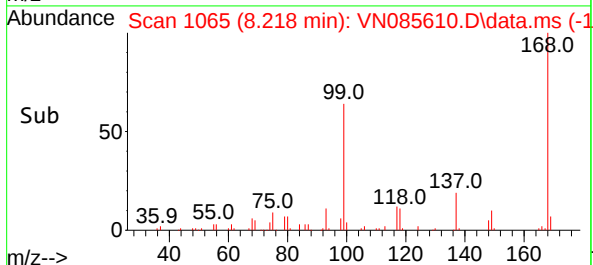
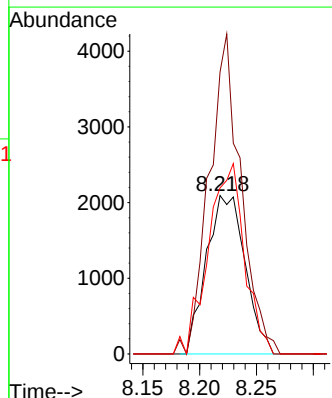
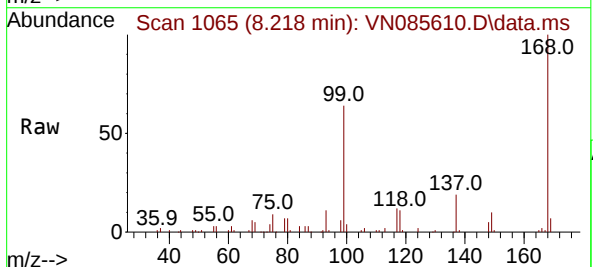
Tgt Ion: 56 Resp: 4966

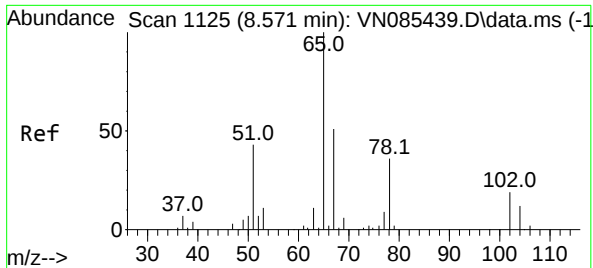
Ion Ratio Lower Upper

56 100

69 178.1 22.2 33.4#

84 104.9 66.4 99.6#

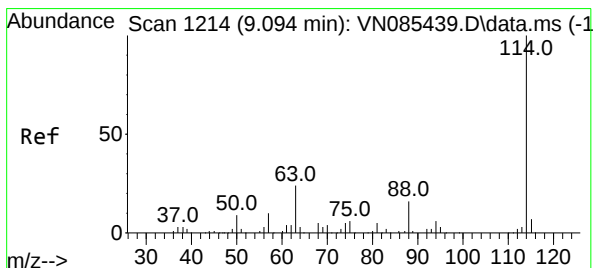
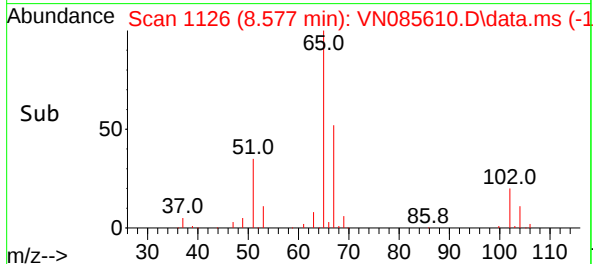
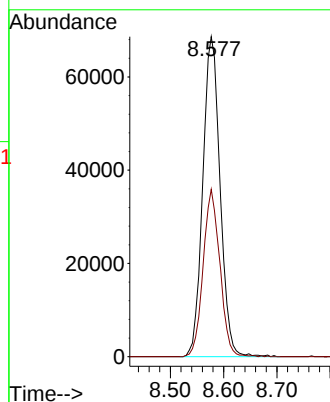
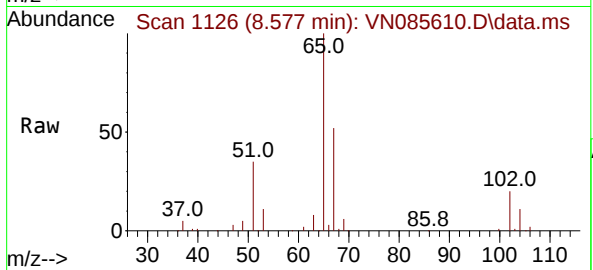




#33
1,2-Dichloroethane-d4
Concen: 58.546 ug/l
RT: 8.577 min Scan# 1125
Delta R.T. 0.006 min
Lab File: VN085610.D
Acq: 31 Jan 2025 18:28

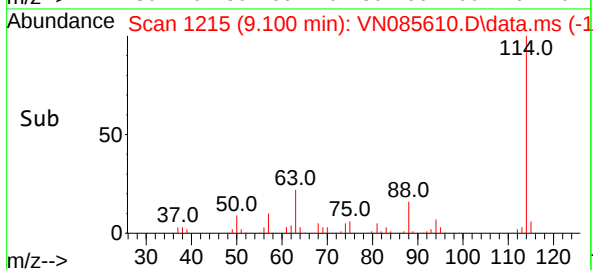
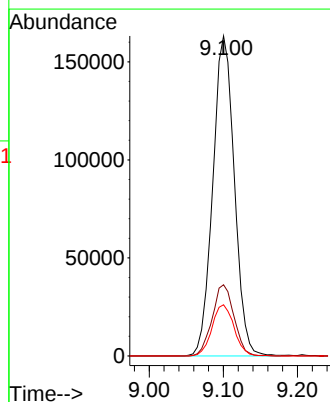
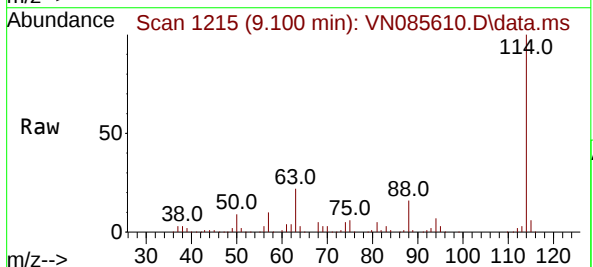
Instrument :
MSVOA_N
ClientSampleId :

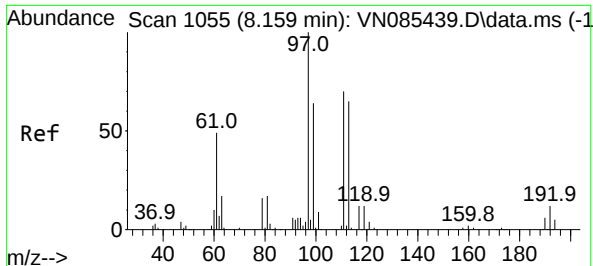
Tgt Ion: 65 Resp: 154855
Ion Ratio Lower Upper
65 100
67 50.6 0.0 101.6



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.006 min
Lab File: VN085610.D
Acq: 31 Jan 2025 18:28

Tgt Ion: 114 Resp: 329830
Ion Ratio Lower Upper
114 100
63 22.3 0.0 47.6
88 16.0 0.0 32.6





#35

Dibromofluoromethane

Concen: 50.151 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

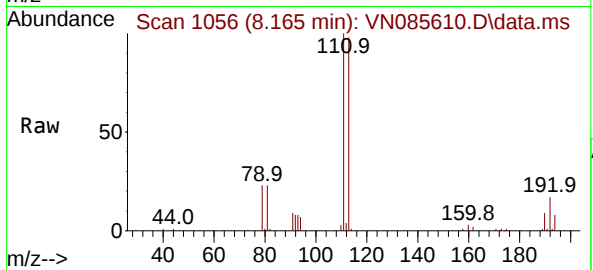
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Acq: 31 Jan 2025 18:28

Instrument :

MSVOA_N

ClientSampleId :



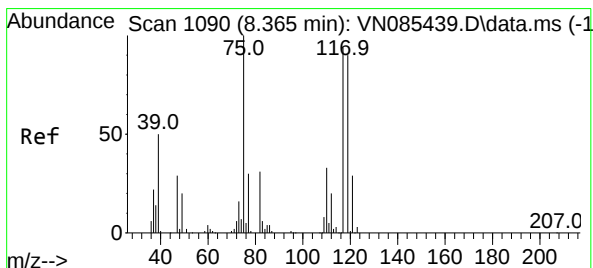
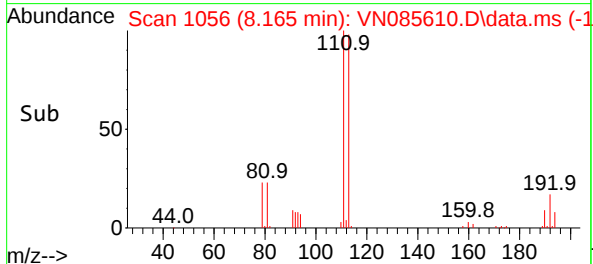
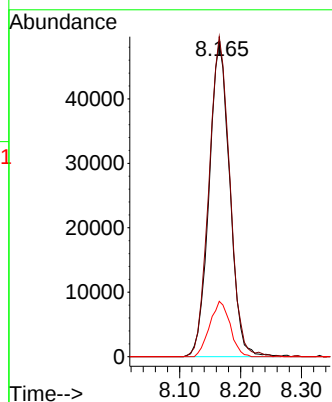
Tgt Ion:113 Resp: 114756

Ion Ratio Lower Upper

113 100

111 103.0 82.7 124.1

192 17.4 14.3 21.5



#36

1,1-Dichloropropene

Concen: 4.815 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

Lab File: VN085610.D

Acq: 31 Jan 2025 18:28

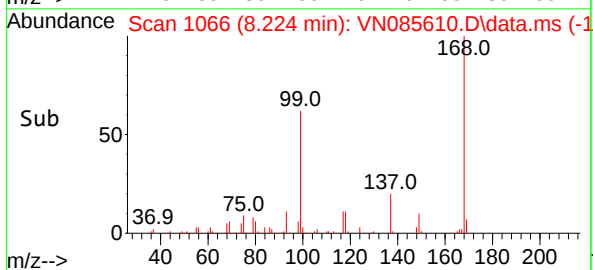
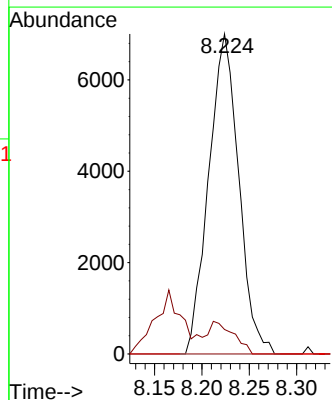
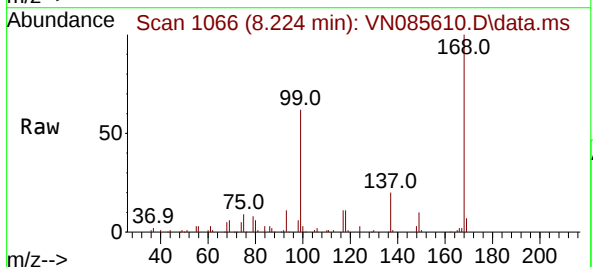
Tgt Ion: 75 Resp: 15464

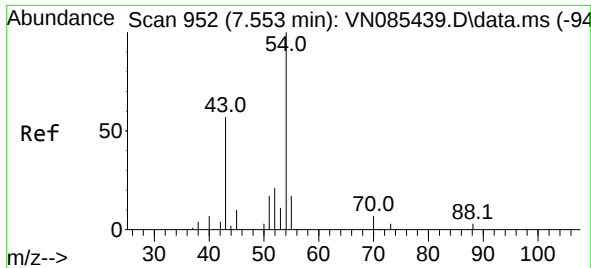
Ion Ratio Lower Upper

75 100

110 8.4 16.5 49.5#

77 0.0 24.4 36.6#

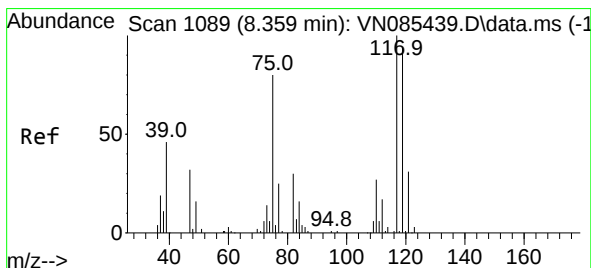
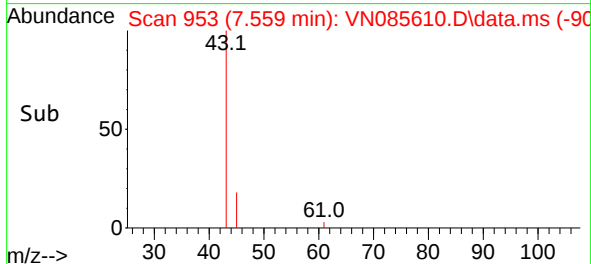
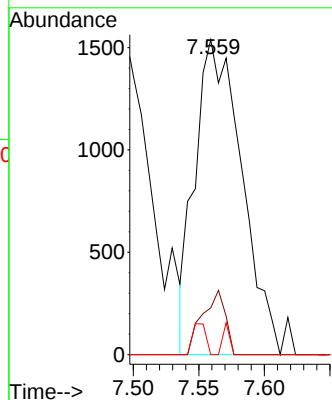
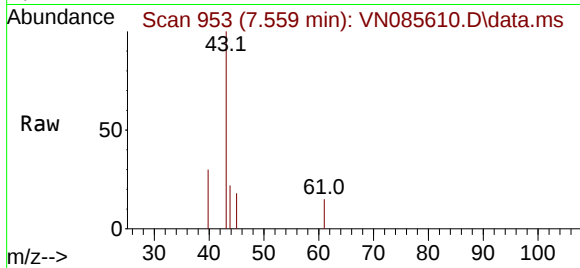




#37
Ethyl Acetate
Concen: 1.175 ug/l
RT: 7.559 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN085610.D
Acq: 31 Jan 2025 18:28

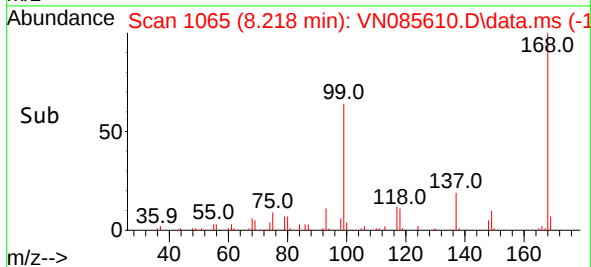
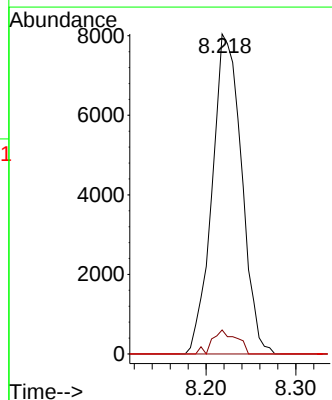
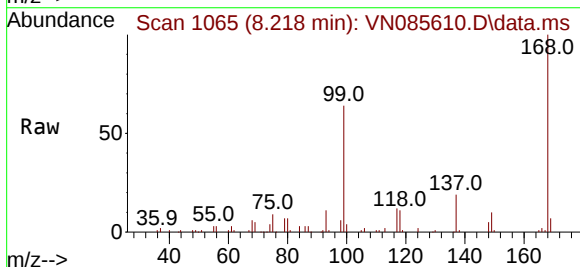
Instrument :
MSVOA_N
ClientSampleId :

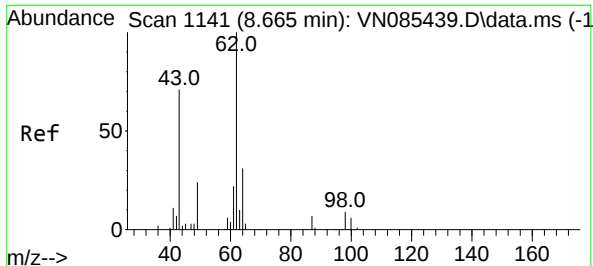
Tgt Ion: 43 Resp: 3808
Ion Ratio Lower Upper
43 100
61 10.1 10.9 16.3#
70 1.4 7.5 11.3#



#38
Carbon Tetrachloride
Concen: 4.985 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.141 min
Lab File: VN085610.D
Acq: 31 Jan 2025 18:28

Tgt Ion: 117 Resp: 18329
Ion Ratio Lower Upper
117 100
119 7.5 75.4 113.2#
121 0.0 24.6 37.0#





#42

1,2-Dichloroethane

Concen: 0.247 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.024 min

Lab File: VN085610.D

Acq: 31 Jan 2025 18:28

Instrument :

MSVOA_N

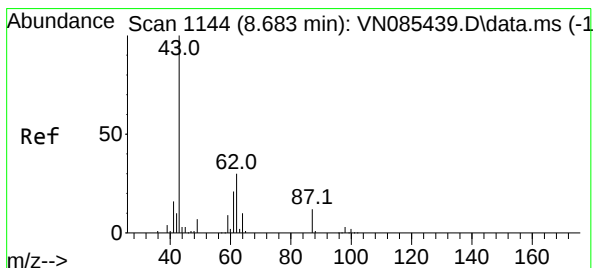
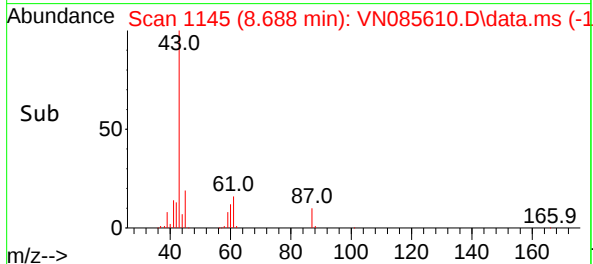
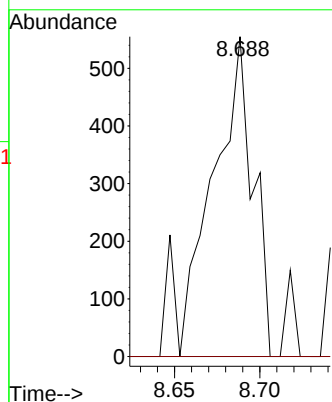
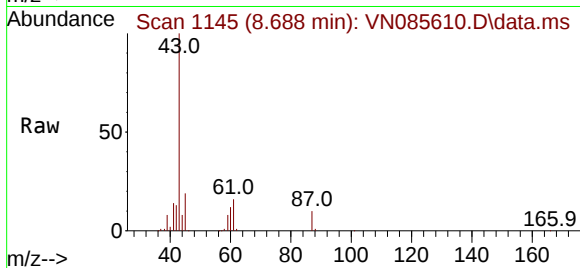
ClientSampleId :

Tgt Ion: 62 Resp: 898

Ion Ratio Lower Upper

62 100

98 0.0 0.0 17.0



#43

Isopropyl Acetate

Concen: 43.766 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.006 min

Lab File: VN085610.D

Acq: 31 Jan 2025 18:28

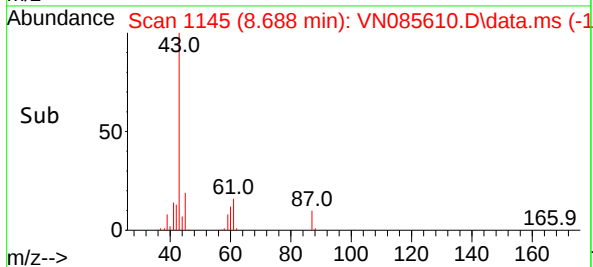
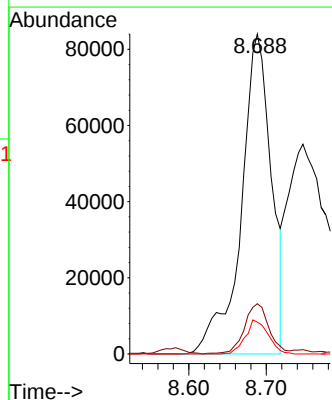
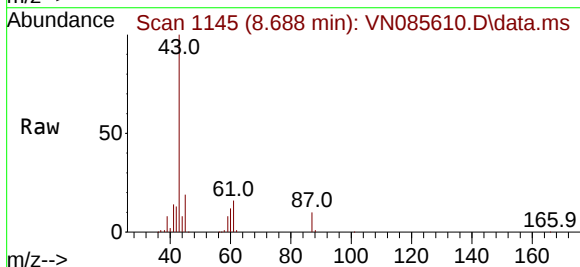
Tgt Ion: 43 Resp: 227320

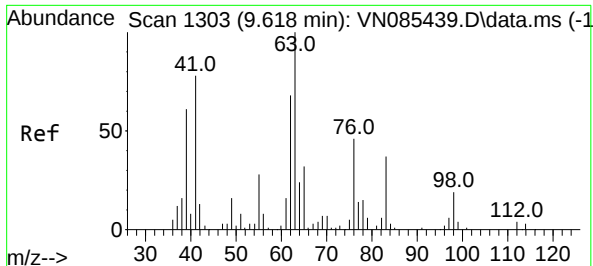
Ion Ratio Lower Upper

43 100

61 12.8 20.7 31.1#

87 8.0 9.8 14.8#





#45

1,2-Dichloropropane

Concen: 0.710 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.124 min

Lab File: VN085610.D

Acq: 31 Jan 2025 18:28

Instrument :

MSVOA_N

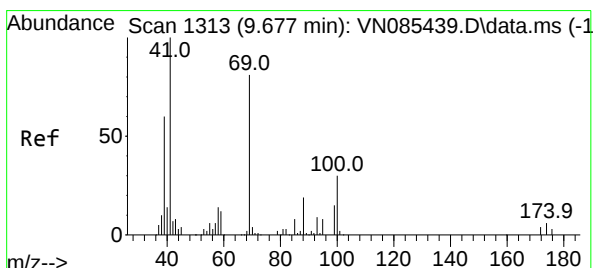
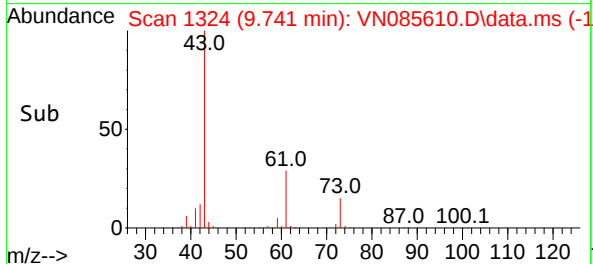
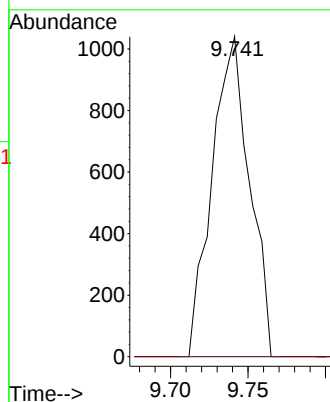
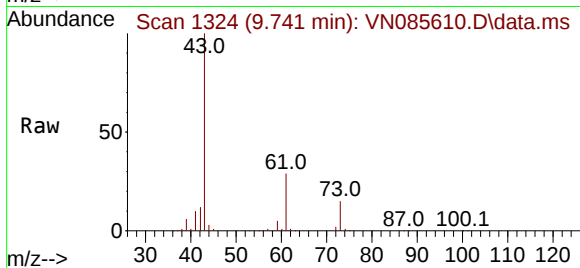
ClientSampleId :

Tgt Ion: 63 Resp: 1751

Ion Ratio Lower Upper

63 100

65 0.0 25.6 38.4#



#48

Methyl methacrylate

Concen: 62.341 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.064 min

Lab File: VN085610.D

Acq: 31 Jan 2025 18:28

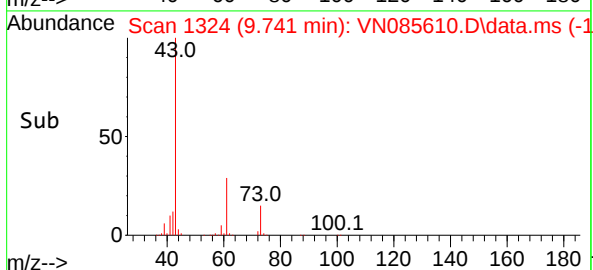
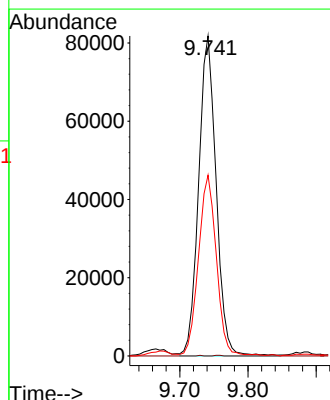
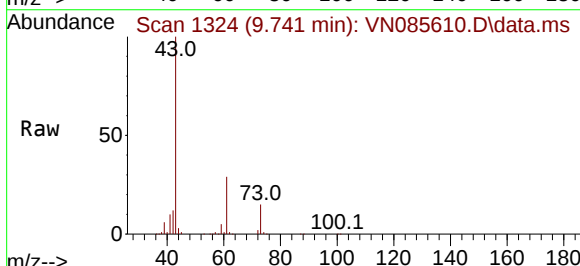
Tgt Ion: 41 Resp: 145717

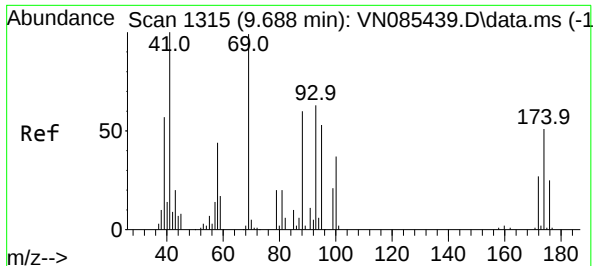
Ion Ratio Lower Upper

41 100

69 0.1 64.7 97.1#

39 57.3 49.0 73.6





#49

1,4-Dioxane

Concen: 4.192 ug/l

RT: 9.735 min Scan# 1

Delta R.T. 0.047 min

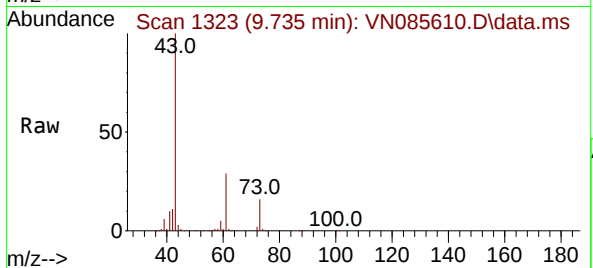
Lab File: VN085610.D

Acq: 31 Jan 2025 18:28

Instrument :

MSVOA_N

ClientSampleId :



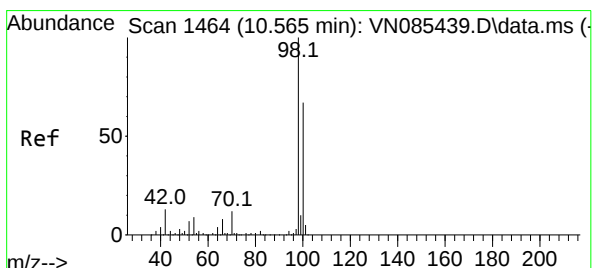
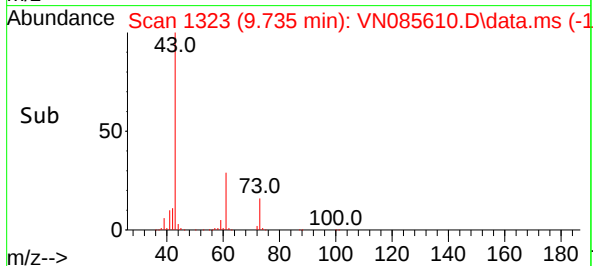
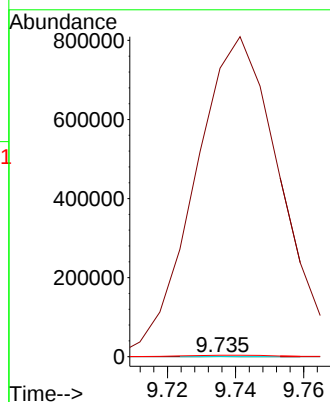
Tgt Ion: 88 Resp: 165

Ion Ratio Lower Upper

88 100

43 864424.8 26.6 39.8#

58 4524.8 59.5 89.3#



#50

Toluene-d8

Concen: 52.663 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN085610.D

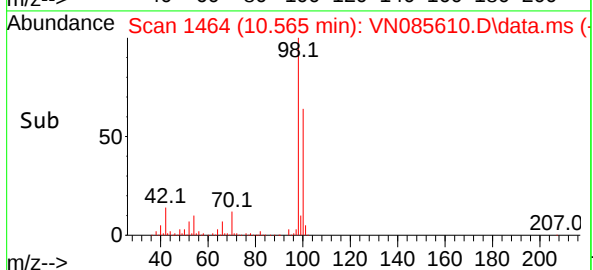
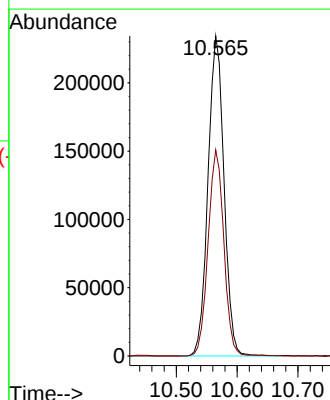
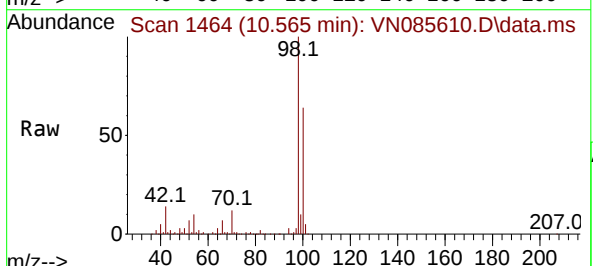
Acq: 31 Jan 2025 18:28

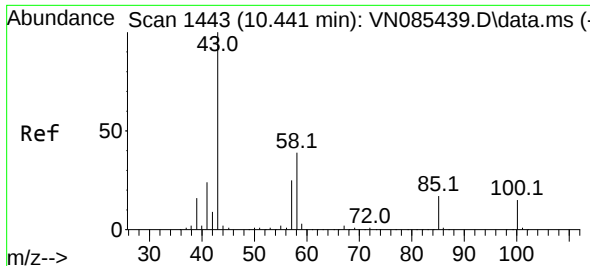
Tgt Ion: 98 Resp: 428150

Ion Ratio Lower Upper

98 100

100 63.5 52.2 78.4

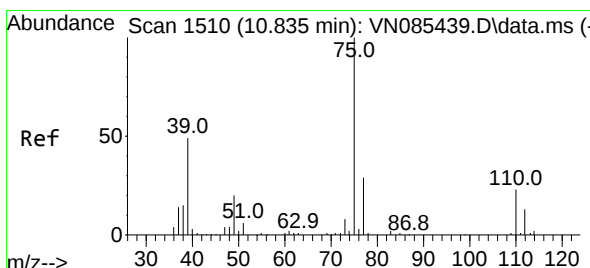
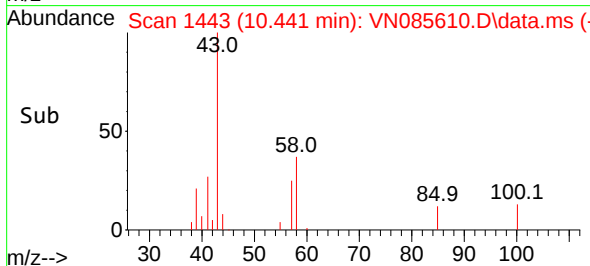
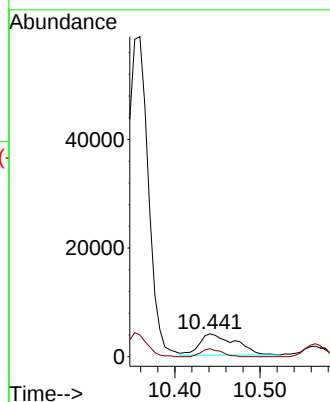
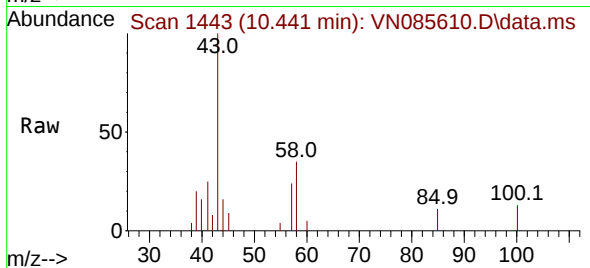




#51
4-Methyl-2-Pentanone
Concen: 3.811 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085610.D
Acq: 31 Jan 2025 18:28

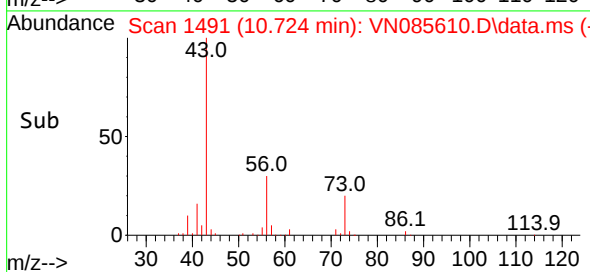
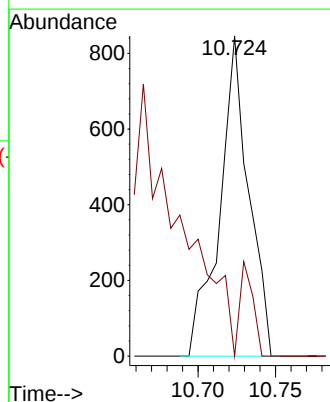
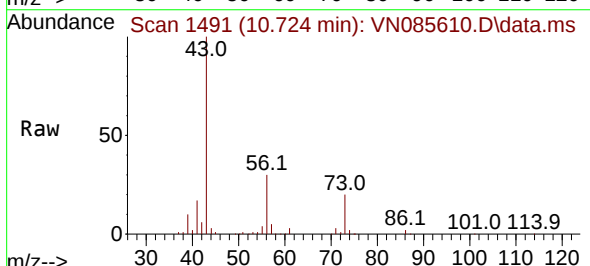
Instrument :
MSVOA_N
ClientSampleId :

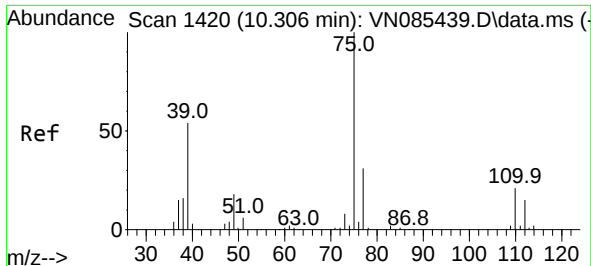
Tgt Ion: 43 Resp: 11487
Ion Ratio Lower Upper
43 100
58 20.9 30.5 45.7#



#53
t-1,3-Dichloropropene
Concen: 0.322 ug/l
RT: 10.724 min Scan# 1491
Delta R.T. -0.112 min
Lab File: VN085610.D
Acq: 31 Jan 2025 18:28

Tgt Ion: 75 Resp: 1102
Ion Ratio Lower Upper
75 100
77 0.0 23.5 35.3#

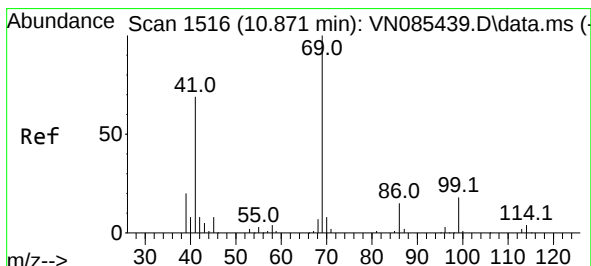
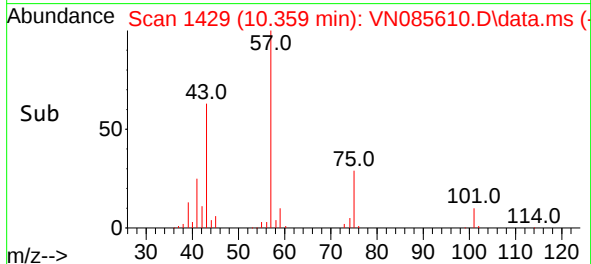
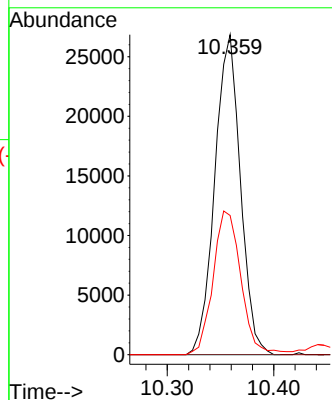
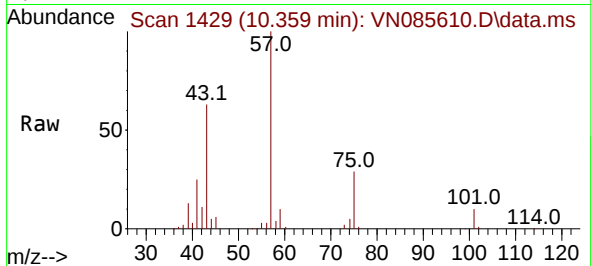




#54
cis-1,3-Dichloropropene
Concen: 12.256 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. 0.053 min
Lab File: VN085610.D
Acq: 31 Jan 2025 18:28

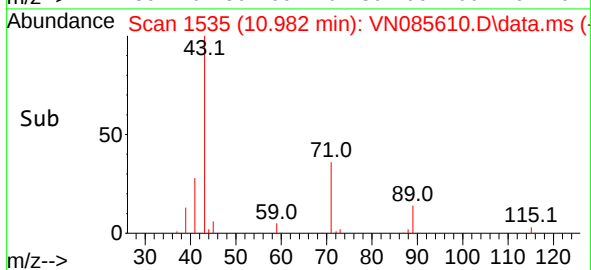
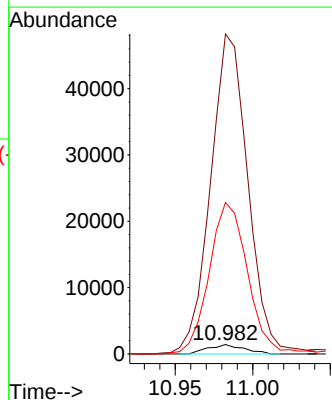
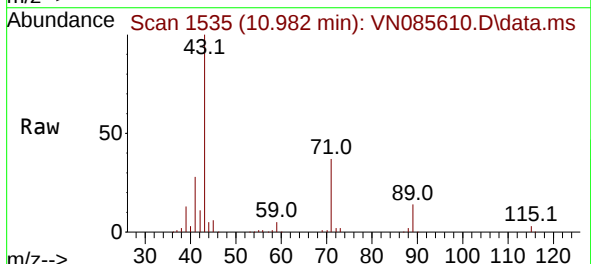
Instrument :
MSVOA_N
ClientSampleId :

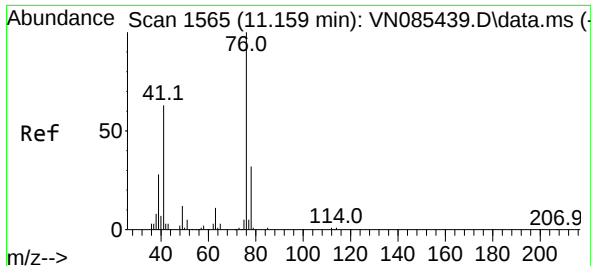
Tgt Ion: 75 Resp: 44827
Ion Ratio Lower Upper
75 100
77 0.0 25.0 37.4#
39 43.5 43.1 64.7



#56
Ethyl methacrylate
Concen: 2.516 ug/l
RT: 10.982 min Scan# 1535
Delta R.T. 0.111 min
Lab File: VN085610.D
Acq: 31 Jan 2025 18:28

Tgt Ion: 69 Resp: 2266
Ion Ratio Lower Upper
69 100
41 3575.6 54.6 82.0#
39 1740.1 32.4 48.6#





#57

1,3-Dichloropropane

Concen: 1.812 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.041 min

Lab File: VN085610.D

Acq: 31 Jan 2025 18:28

Instrument :

MSVOA_N

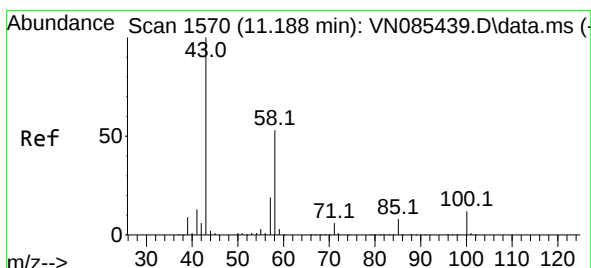
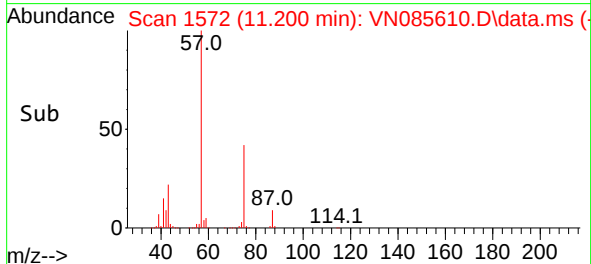
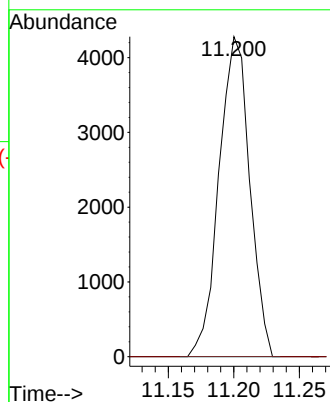
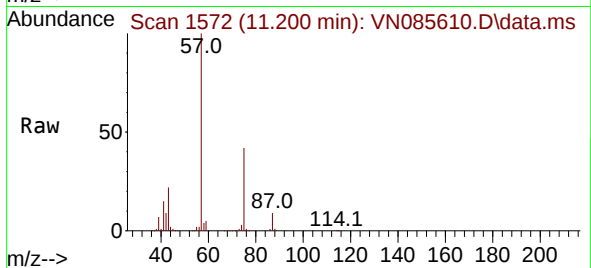
ClientSampleId :

Tgt Ion: 76 Resp: 6972

Ion Ratio Lower Upper

76 100

78 0.0 25.6 38.4#



#59

2-Hexanone

Concen: 41.022 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.012 min

Lab File: VN085610.D

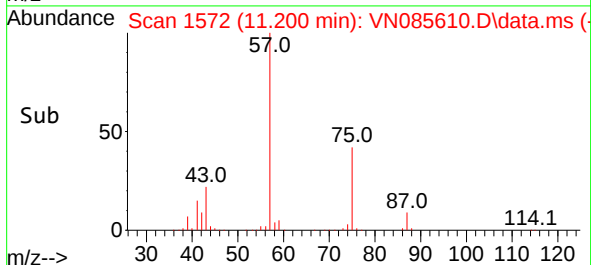
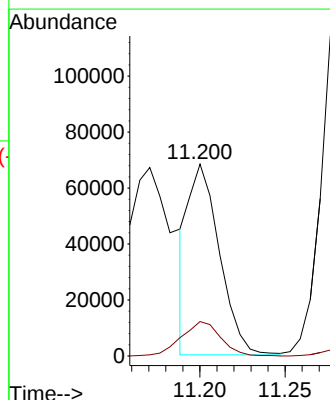
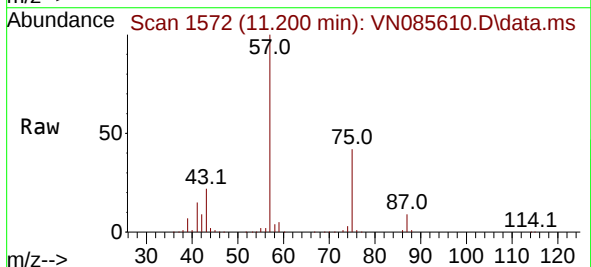
Acq: 31 Jan 2025 18:28

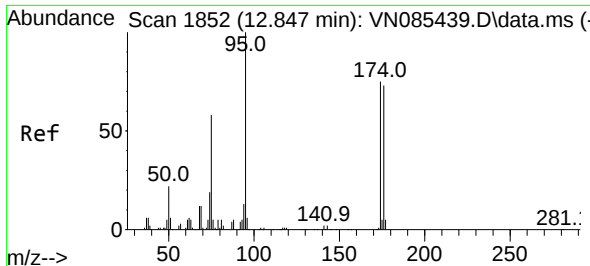
Tgt Ion: 43 Resp: 86998

Ion Ratio Lower Upper

43 100

58 22.7 26.2 78.6#

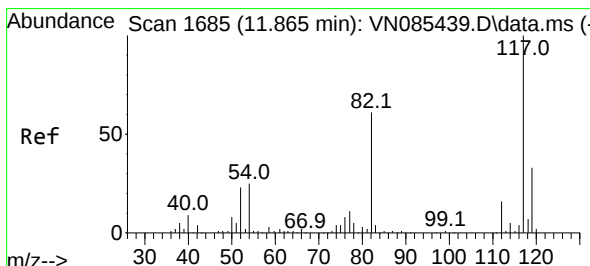
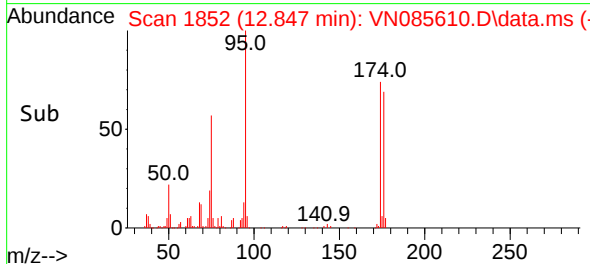
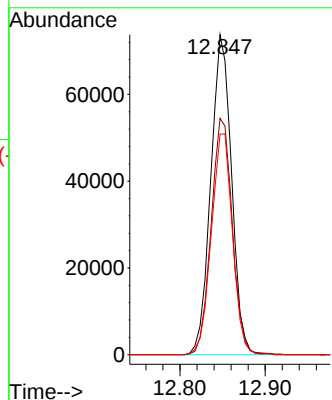
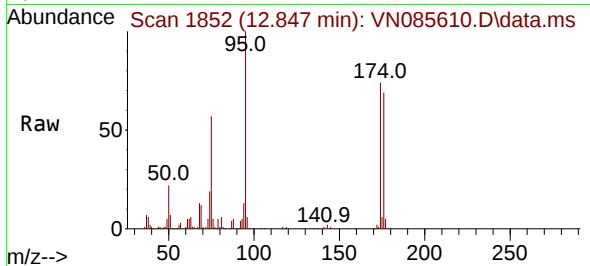




#62
4-Bromofluorobenzene
Concen: 44.784 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085610.D
Acq: 31 Jan 2025 18:28

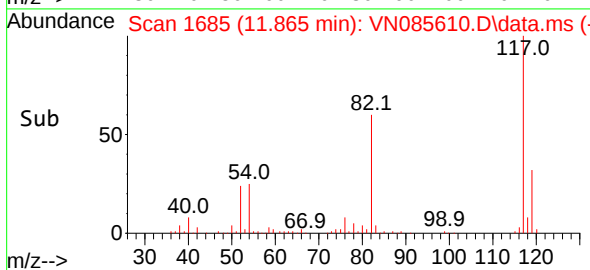
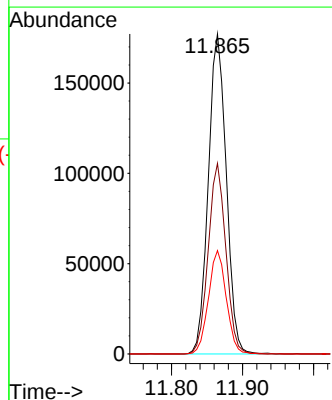
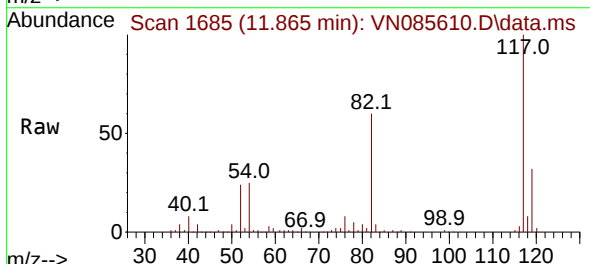
Instrument :
MSVOA_N
ClientSampleId :

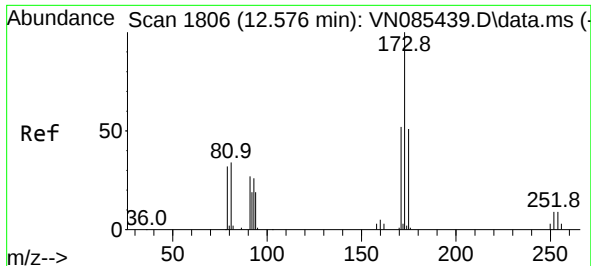
Tgt Ion: 95 Resp: 124546
Ion Ratio Lower Upper
95 100
174 75.6 0.0 145.0
176 70.5 0.0 142.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN085610.D
Acq: 31 Jan 2025 18:28

Tgt Ion: 117 Resp: 311231
Ion Ratio Lower Upper
117 100
82 59.5 48.6 72.8
119 32.3 26.6 39.8

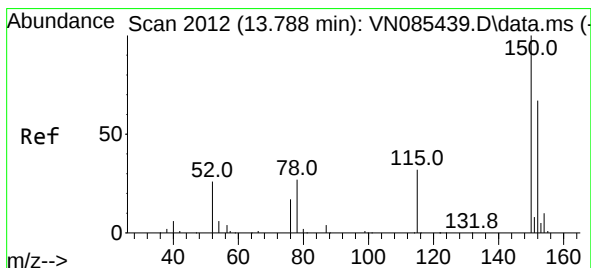
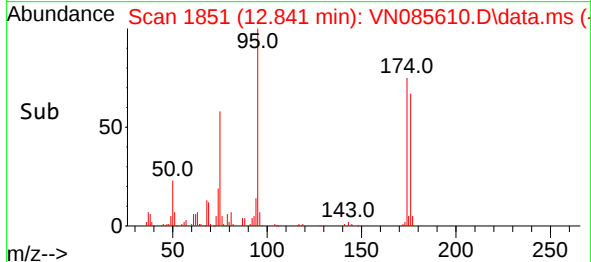
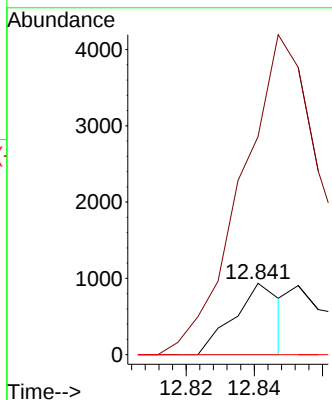
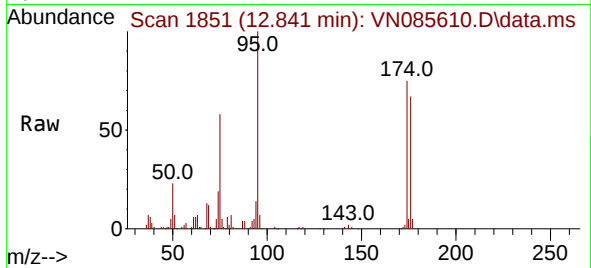




#71
Bromoform
Concen: 0.498 ug/l
RT: 12.841 min Scan# 11
Delta R.T. 0.265 min
Lab File: VN085610.D
Acq: 31 Jan 2025 18:28

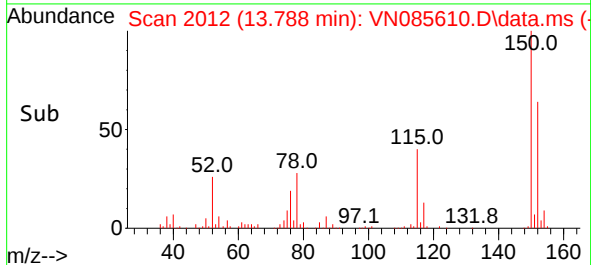
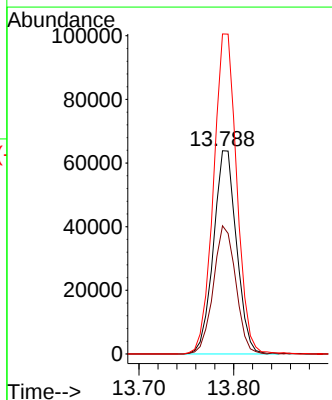
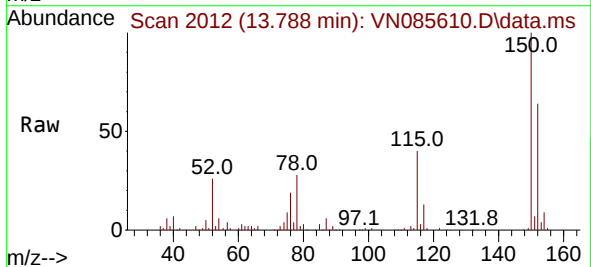
Instrument :
MSVOA_N
ClientSampleId :

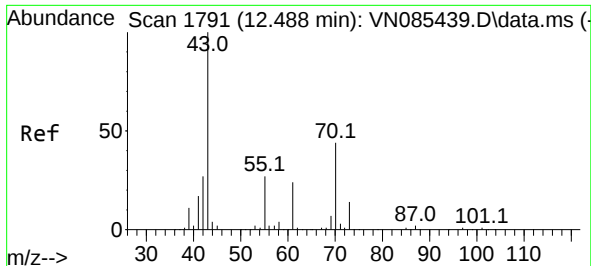
Tgt Ion:173 Resp: 892
Ion Ratio Lower Upper
173 100
175 582.8 24.4 73.2#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN085610.D
Acq: 31 Jan 2025 18:28

Tgt Ion:152 Resp: 108090
Ion Ratio Lower Upper
152 100
115 61.2 31.1 93.3
150 158.7 0.0 343.6

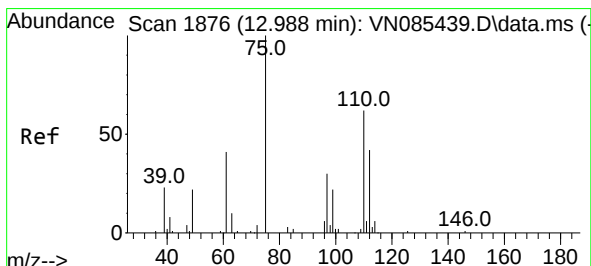
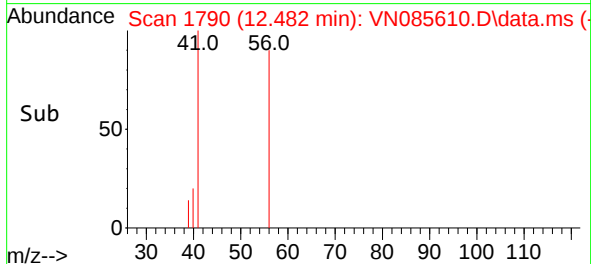
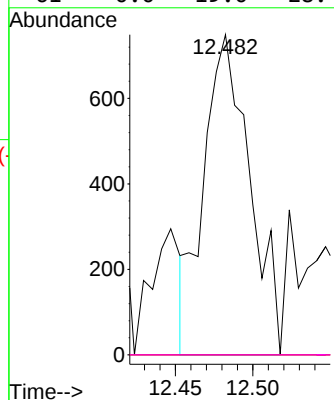
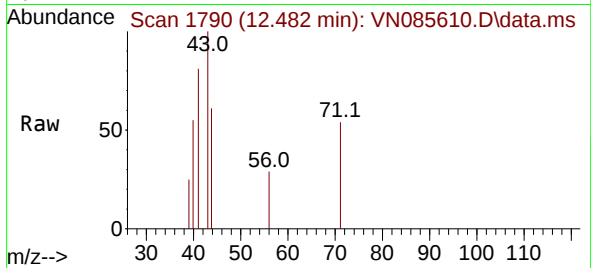




#74
N-amy1 acetate
Concen: 0.470 ug/l
RT: 12.482 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN085610.D
Acq: 31 Jan 2025 18:28

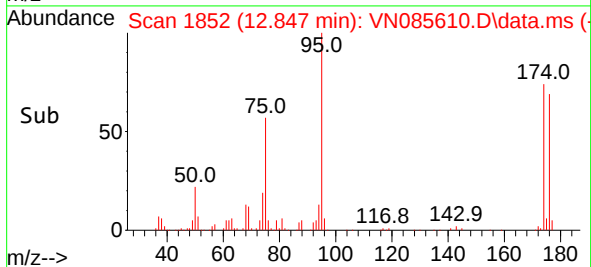
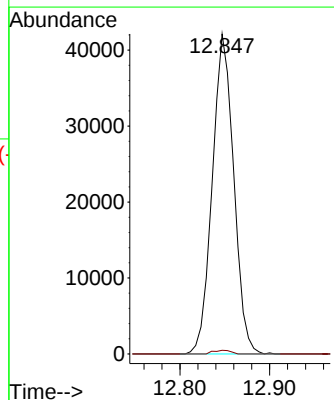
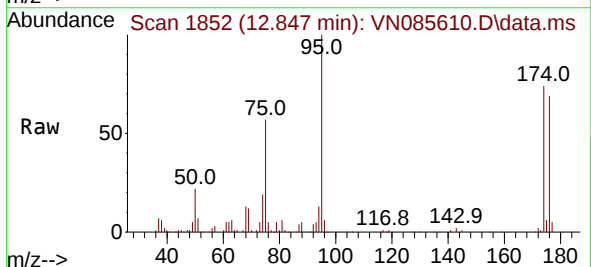
Instrument :
MSVOA_N
ClientSampleId :

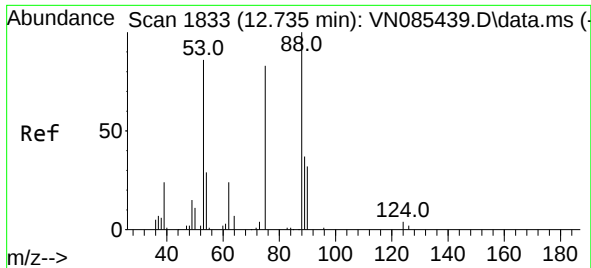
Tgt Ion: 43 Resp: 1542
Ion Ratio Lower Upper
43 100
70 0.0 34.0 51.0#
55 0.0 21.4 32.2#
61 0.0 19.0 28.4#



#76
1,2,3-Trichloropropane
Concen: 31.823 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN085610.D
Acq: 31 Jan 2025 18:28

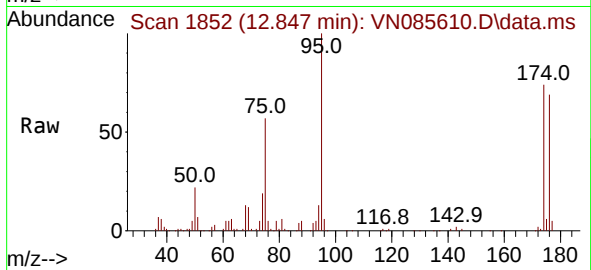
Tgt Ion: 75 Resp: 69913
Ion Ratio Lower Upper
75 100
77 0.9 109.7 329.2#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 86.098 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN085610.D
 Acq: 31 Jan 2025 18:28

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion: 75 Resp: 69913
 Ion Ratio Lower Upper
 75 100
 53 0.2 95.6 143.4#
 89 0.0 37.0 55.6#

