

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN013125\
 Data File : VN085603.D
 Acq On : 31 Jan 2025 15:39
 Operator : JC\MD
 Sample : PB166357ZHE#08
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jan 31 22:30:12 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

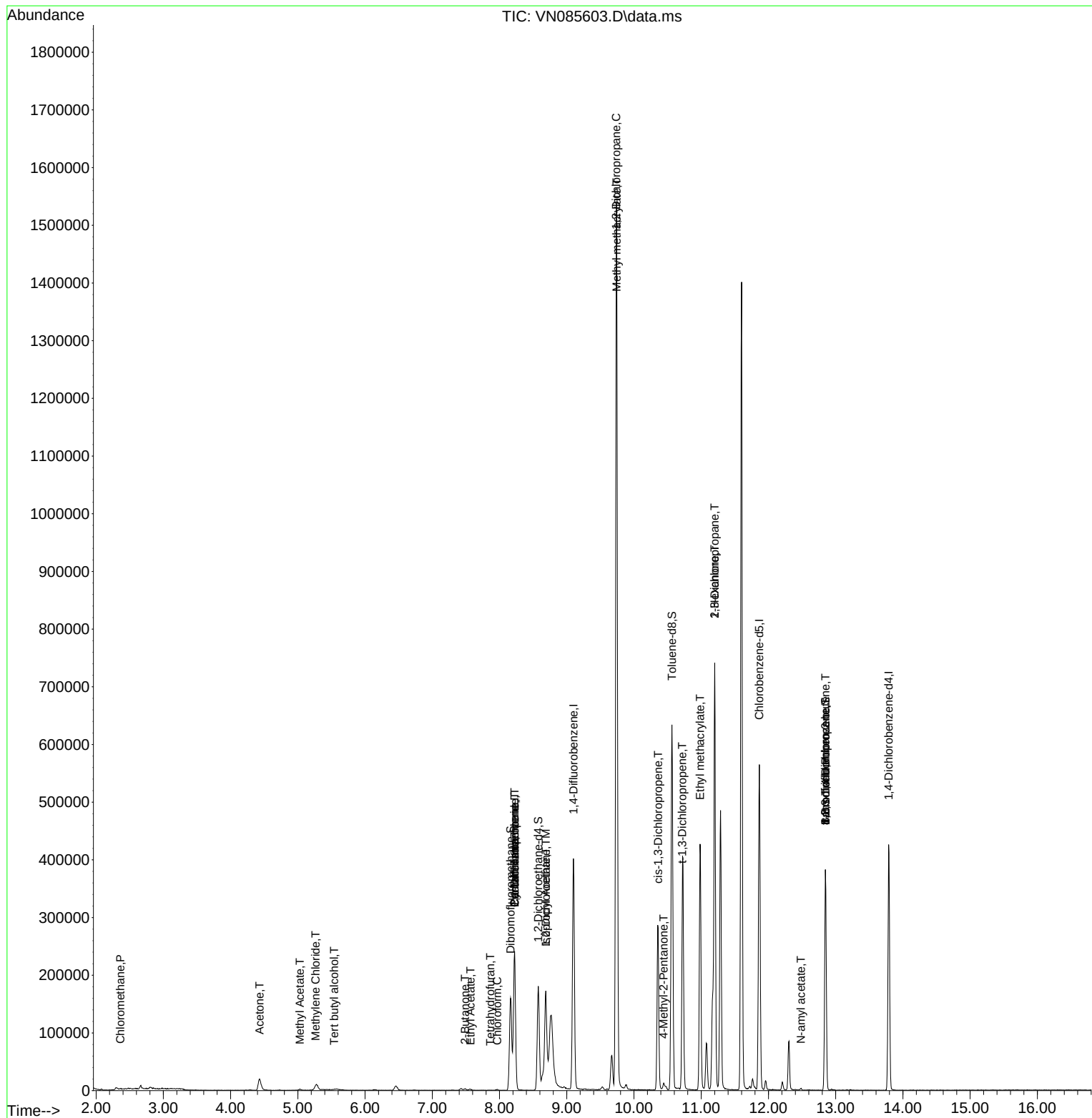
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	158082	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	327744	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	307543	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	111714	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	152340	59.700	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 119.400%		
35) Dibromofluoromethane	8.165	113	114569	50.388	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 100.780%		
50) Toluene-d8	10.565	98	425881	52.718	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 105.440%		
62) 4-Bromofluorobenzene	12.847	95	125681	45.479	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	= 90.960%		
Target Compounds						Qvalue
3) Chloromethane	2.359	50	524	0.226	ug/l #	41
11) Tert butyl alcohol	5.541	59	59	0.202	ug/l #	71
16) Acetone	4.430	43	39522	47.935	ug/l	94
18) Methyl Acetate	5.030	43	3315	1.322	ug/l #	73
20) Methylene Chloride	5.265	84	7303	3.578	ug/l #	80
25) 2-Butanone	7.488	43	4738	3.905	ug/l #	81
29) Tetrahydrofuran	7.865	42	164	0.213	ug/l #	34
30) Chloroform	7.965	83	1492	0.387	ug/l	88
31) Cyclohexane	8.224	56	4593	1.418	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	15571	4.879	ug/l #	51
37) Ethyl Acetate	7.571	43	3868	1.201	ug/l #	71
38) Carbon Tetrachloride	8.224	117	18249	4.995	ug/l #	19
42) 1,2-Dichloroethane	8.688	62	1126	0.312	ug/l #	76
43) Isopropyl Acetate	8.688	43	213778	41.420	ug/l #	80
45) 1,2-Dichloropropane	9.735	63	1865	0.761	ug/l #	43
48) Methyl methacrylate	9.741	41	146057	62.884	ug/l #	46
51) 4-Methyl-2-Pentanone	10.441	43	12664	4.228	ug/l #	72
53) t-1,3-Dichloropropene	10.718	75	890	0.262	ug/l	99
54) cis-1,3-Dichloropropene	10.359	75	45933	12.639	ug/l #	74
56) Ethyl methacrylate	10.982	69	2629	2.613	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	6826	1.785	ug/l #	44
59) 2-Hexanone	11.200	43	90347	42.872	ug/l #	57
71) Bromoform	12.847	173	1360	0.769	ug/l #	1
74) N-amyl acetate	12.482	43	1143	0.337	ug/l #	46
76) 1,2,3-Trichloropropane	12.847	75	70735	31.152	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	70735	84.285	ug/l #	3

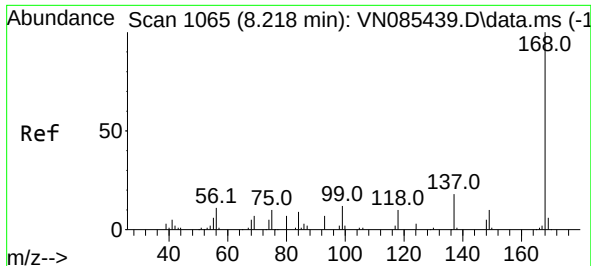
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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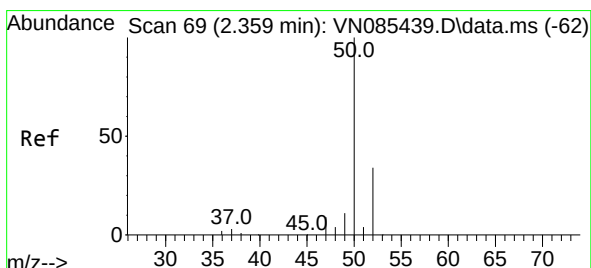
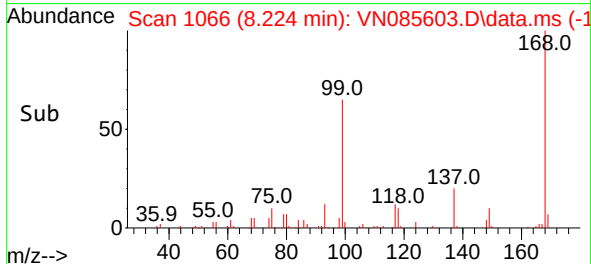
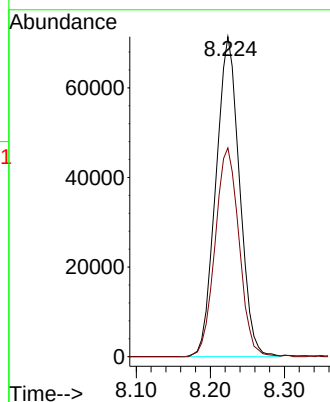
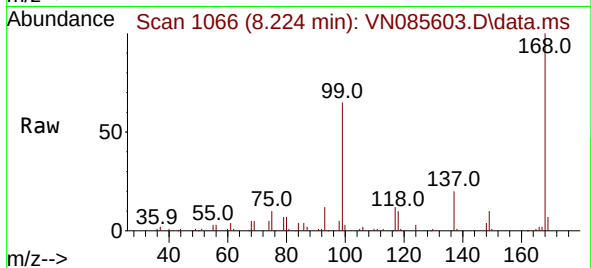




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN085603.D
Acq: 31 Jan 2025 15:39

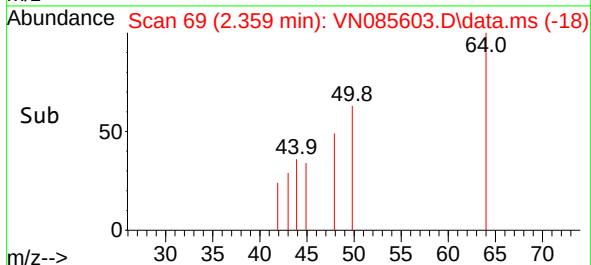
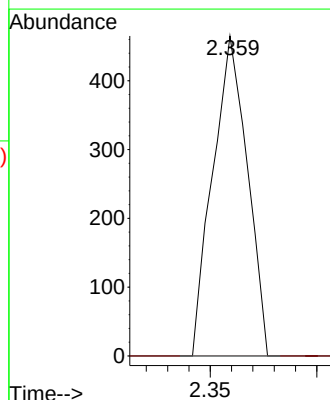
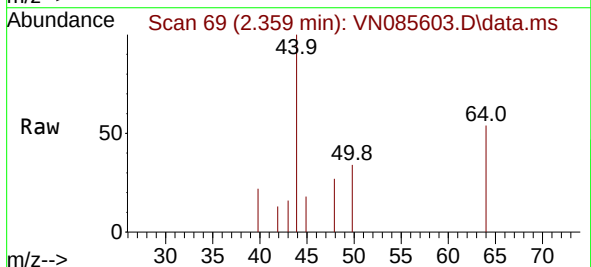
Instrument :
MSVOA_N
ClientSampleId :

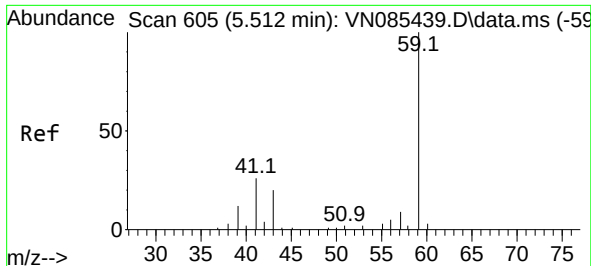
Tgt Ion:168 Resp: 158082
Ion Ratio Lower Upper
168 100
99 65.3 53.6 80.4



#3
Chloromethane
Concen: 0.226 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN085603.D
Acq: 31 Jan 2025 15:39

Tgt Ion: 50 Resp: 524
Ion Ratio Lower Upper
50 100
52 0.0 27.0 40.6#

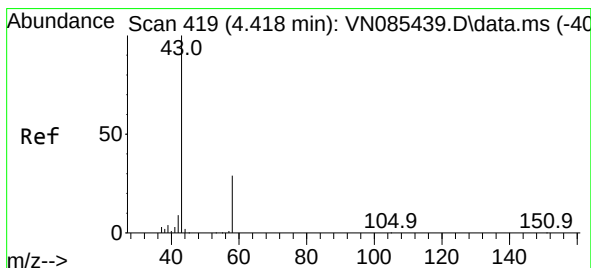
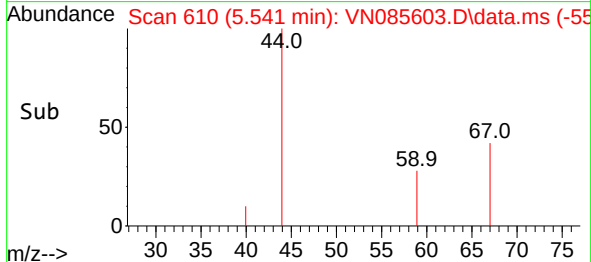
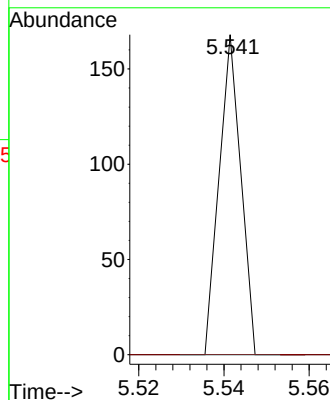
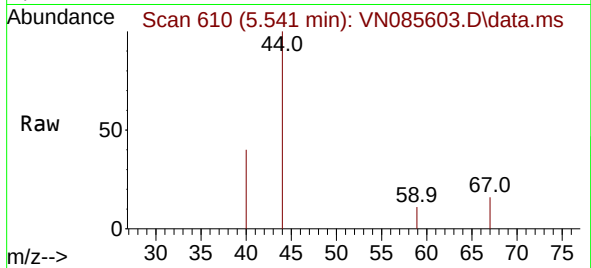




#11
Tert butyl alcohol
Concen: 0.202 ug/l
RT: 5.541 min Scan# 610
Delta R.T. 0.029 min
Lab File: VN085603.D
Acq: 31 Jan 2025 15:39

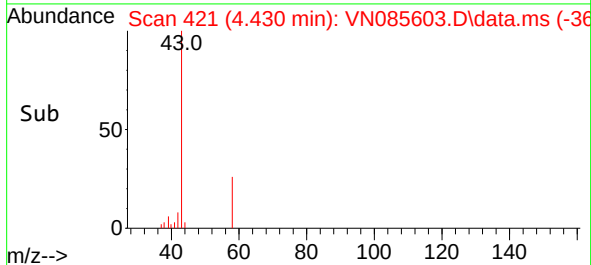
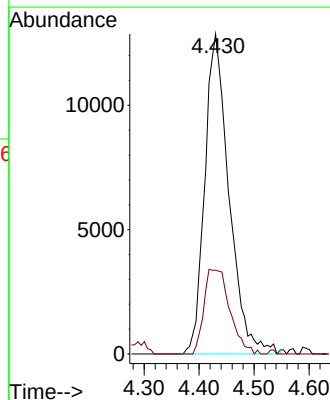
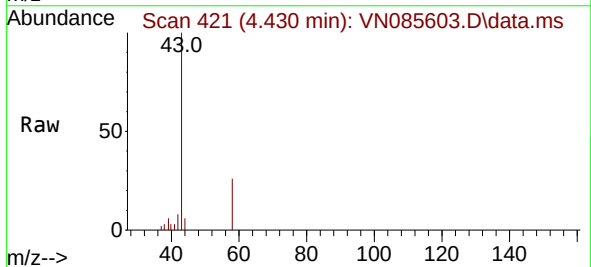
Instrument :
MSVOA_N
ClientSampleId :

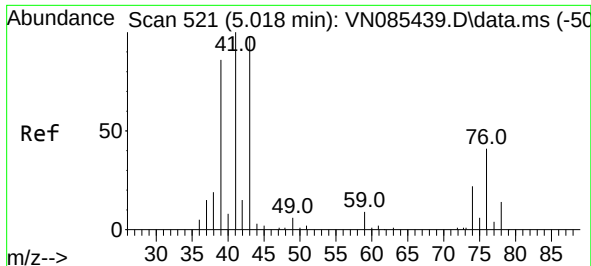
Tgt Ion: 59 Resp: 59
Ion Ratio Lower Upper
59 100
57 0.0 8.6 13.0#



#16
Acetone
Concen: 47.935 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.012 min
Lab File: VN085603.D
Acq: 31 Jan 2025 15:39

Tgt Ion: 43 Resp: 39522
Ion Ratio Lower Upper
43 100
58 26.2 23.8 35.6

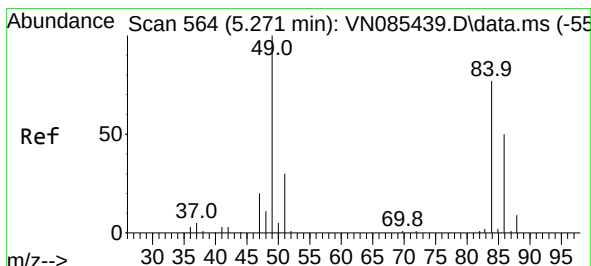
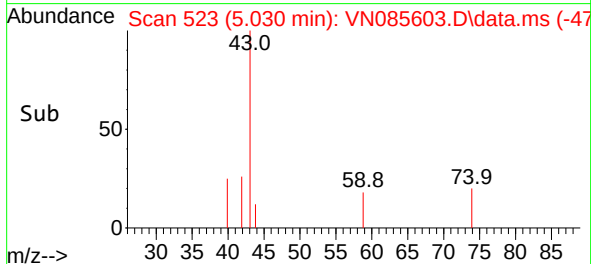
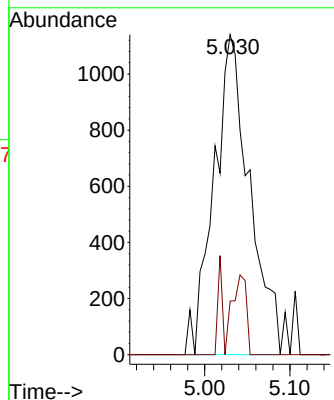
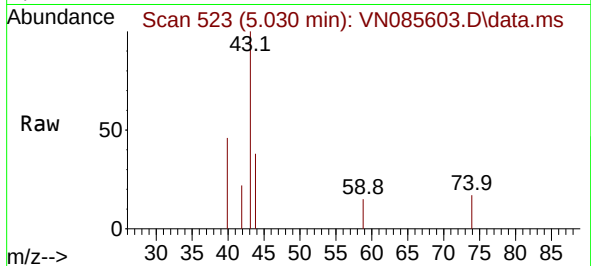




#18
Methyl Acetate
Concen: 1.322 ug/l
RT: 5.030 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN085603.D
Acq: 31 Jan 2025 15:39

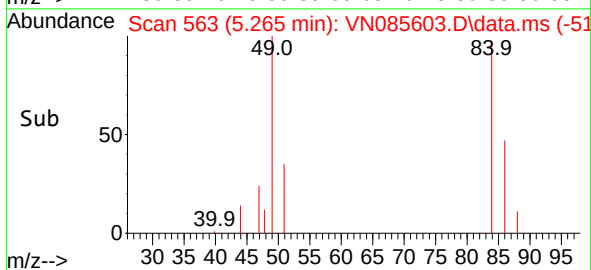
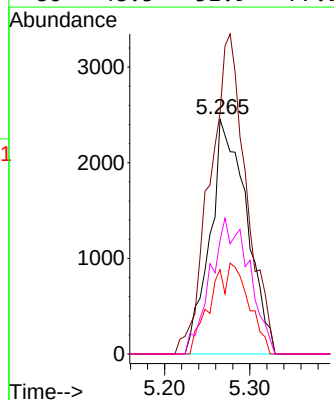
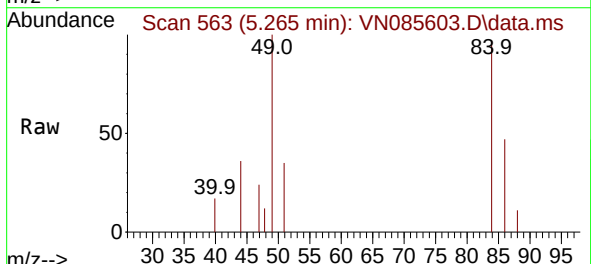
Instrument :
MSVOA_N
ClientSampleId :

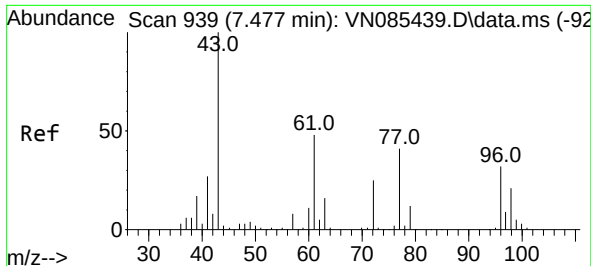
Tgt Ion: 43 Resp: 3315
Ion Ratio Lower Upper
43 100
74 9.9 18.6 28.0#



#20
Methylene Chloride
Concen: 3.578 ug/l
RT: 5.265 min Scan# 563
Delta R.T. -0.006 min
Lab File: VN085603.D
Acq: 31 Jan 2025 15:39

Tgt Ion: 84 Resp: 7303
Ion Ratio Lower Upper
84 100
49 102.6 104.1 156.1#
51 36.0 31.0 46.4
86 48.5 51.9 77.9#

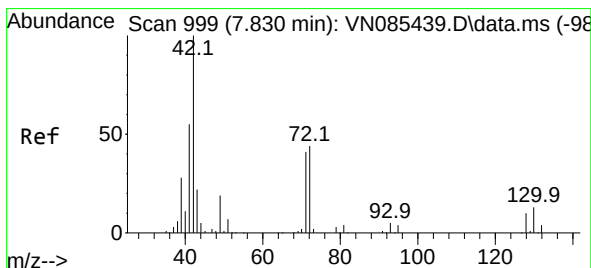
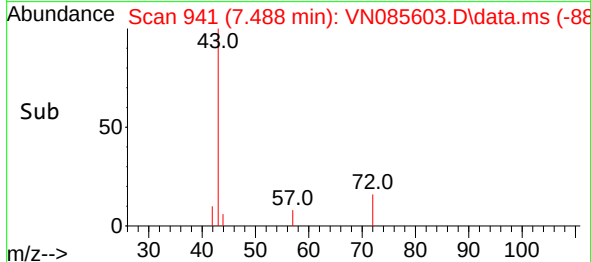
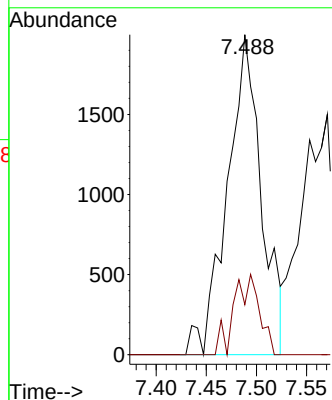
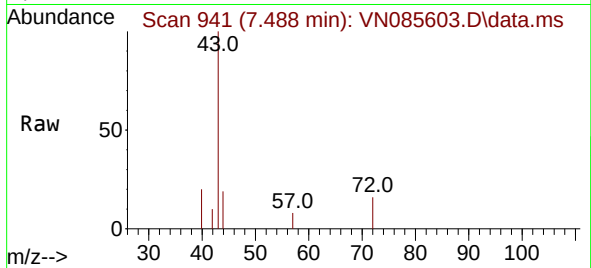




#25
2-Butanone
Concen: 3.905 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN085603.D
Acq: 31 Jan 2025 15:39

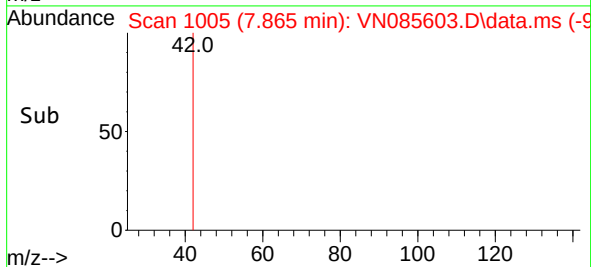
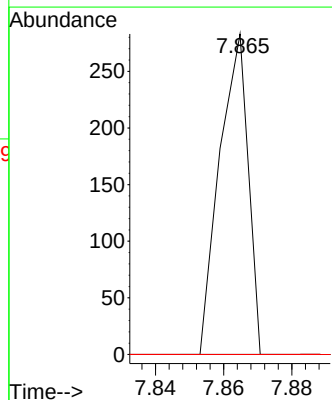
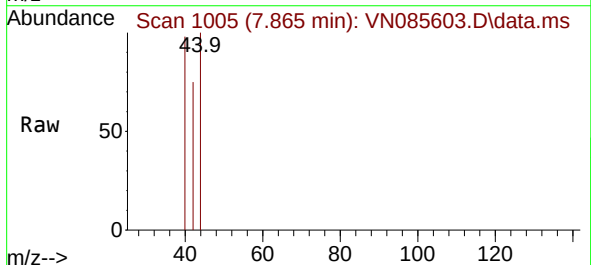
Instrument :
MSVOA_N
ClientSampleId :

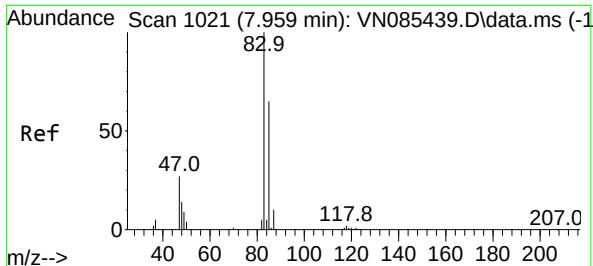
Tgt Ion: 43 Resp: 4738
Ion Ratio Lower Upper
43 100
72 15.7 20.2 30.4#



#29
Tetrahydrofuran
Concen: 0.213 ug/l
RT: 7.865 min Scan# 1005
Delta R.T. 0.035 min
Lab File: VN085603.D
Acq: 31 Jan 2025 15:39

Tgt Ion: 42 Resp: 164
Ion Ratio Lower Upper
42 100
72 0.0 34.2 51.2#
71 0.0 32.5 48.7#

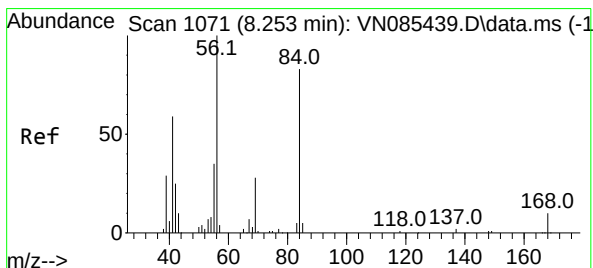
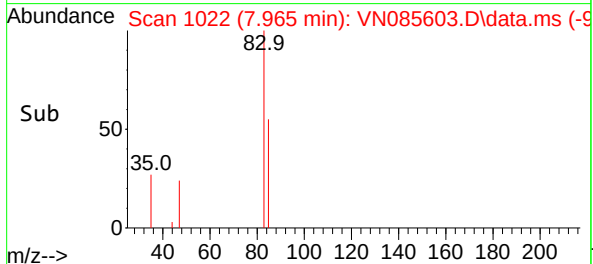
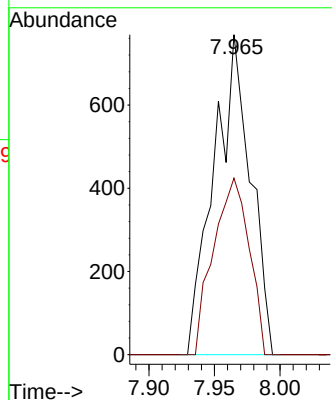
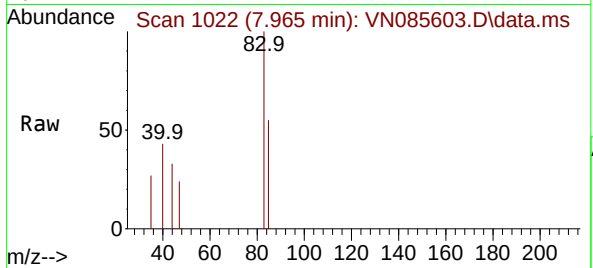




#30
Chloroform
Concen: 0.387 ug/l
RT: 7.965 min Scan# 1021
Delta R.T. 0.006 min
Lab File: VN085603.D
Acq: 31 Jan 2025 15:39

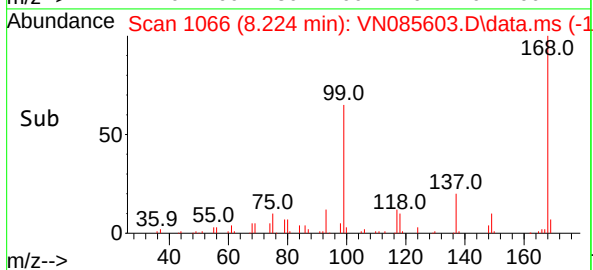
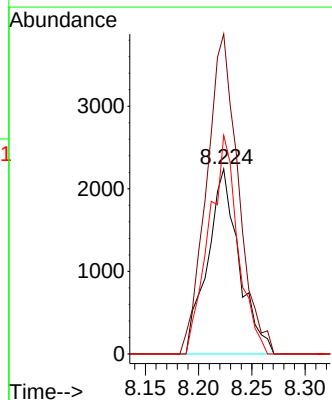
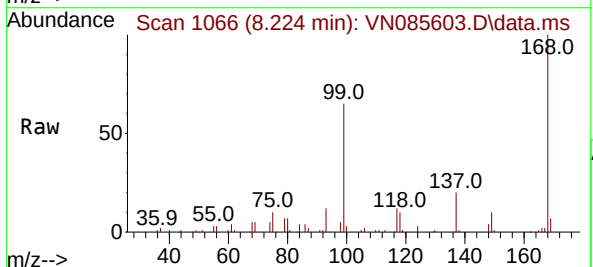
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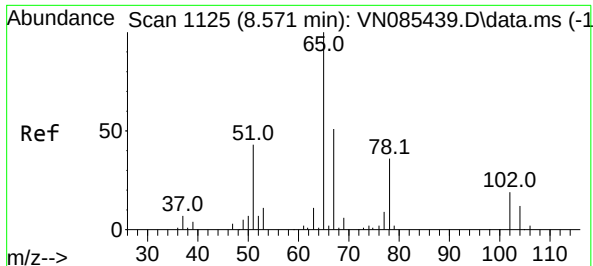
Tgt Ion: 83 Resp: 1492
Ion Ratio Lower Upper
83 100
85 55.1 51.8 77.6



#31
Cyclohexane
Concen: 1.418 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.030 min
Lab File: VN085603.D
Acq: 31 Jan 2025 15:39

Tgt Ion: 56 Resp: 4593
Ion Ratio Lower Upper
56 100
69 173.1 22.2 33.4#
84 118.2 66.4 99.6#





#33

1,2-Dichloroethane-d4

Concen: 59.700 ug/l

RT: 8.577 min Scan# 1125

Delta R.T. 0.006 min

Lab File: VN085603.D

Acq: 31 Jan 2025 15:39

Instrument :

MSVOA_N

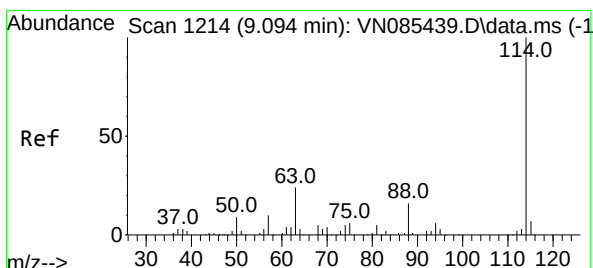
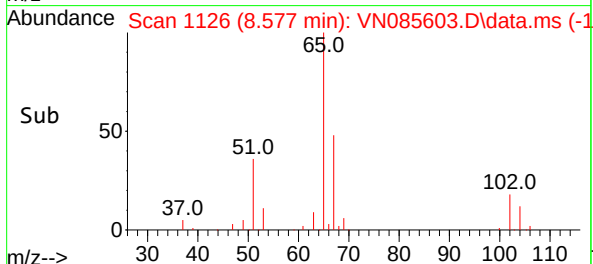
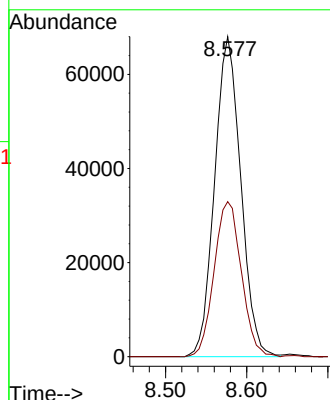
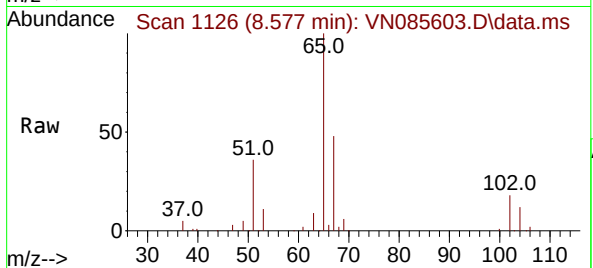
ClientSampleId :

Tgt Ion: 65 Resp: 152340

Ion Ratio Lower Upper

65 100

67 50.3 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: VN085603.D

Acq: 31 Jan 2025 15:39

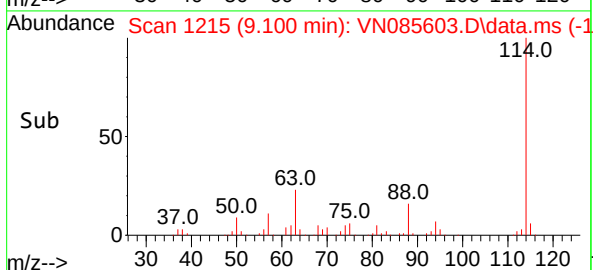
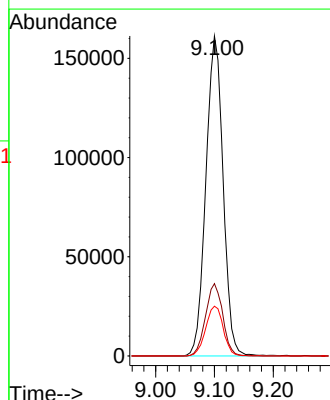
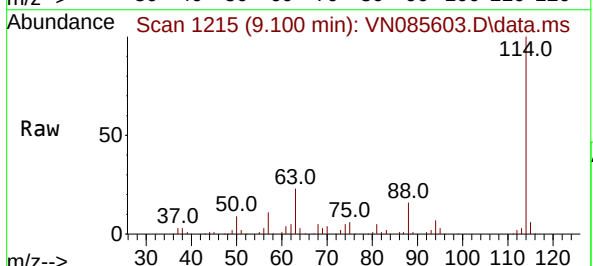
Tgt Ion: 114 Resp: 327744

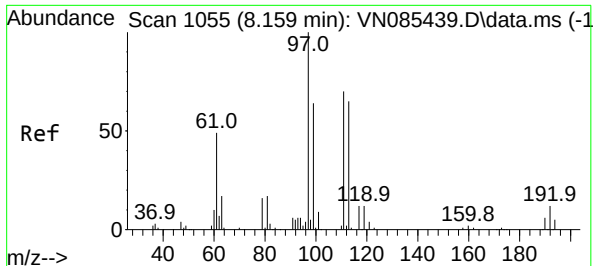
Ion Ratio Lower Upper

114 100

63 22.6 0.0 47.6

88 15.6 0.0 32.6





#35

Dibromofluoromethane

Concen: 50.388 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN085603.D

Acq: 31 Jan 2025 15:39

Instrument :

MSVOA_N

ClientSampleId :

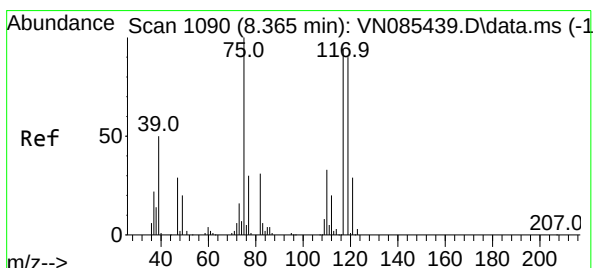
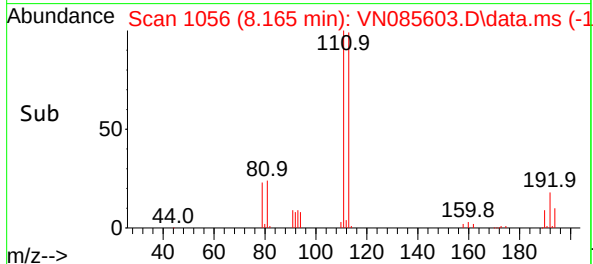
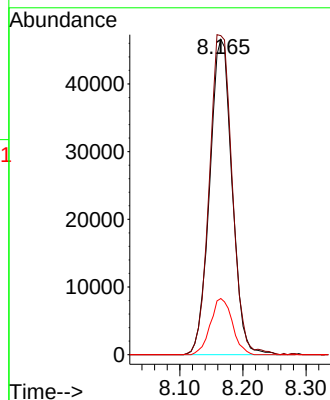
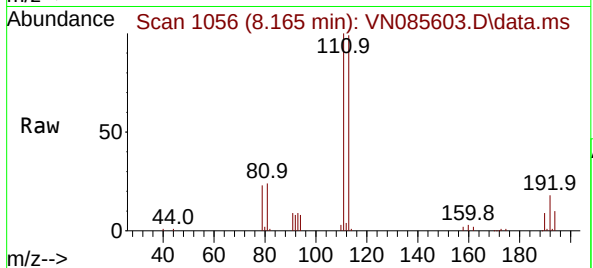
Tgt Ion:113 Resp: 114569

Ion Ratio Lower Upper

113 100

111 103.8 82.7 124.1

192 17.5 14.3 21.5



#36

1,1-Dichloropropene

Concen: 4.879 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

Lab File: VN085603.D

Acq: 31 Jan 2025 15:39

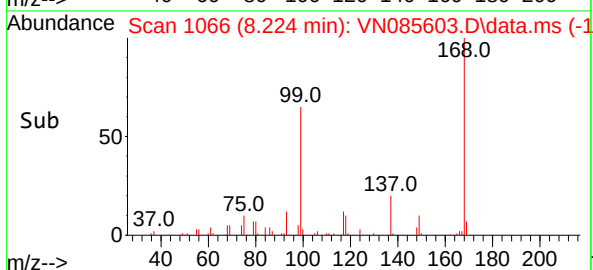
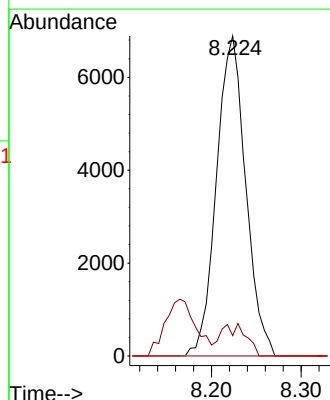
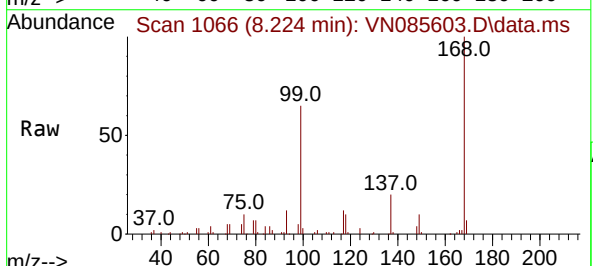
Tgt Ion: 75 Resp: 15571

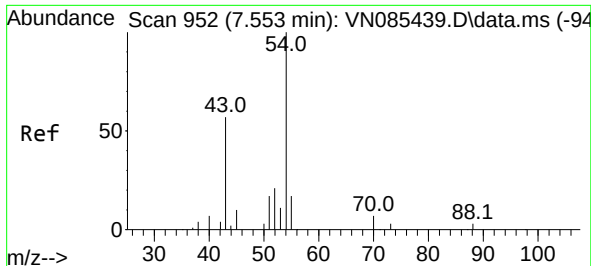
Ion Ratio Lower Upper

75 100

110 8.6 16.5 49.5#

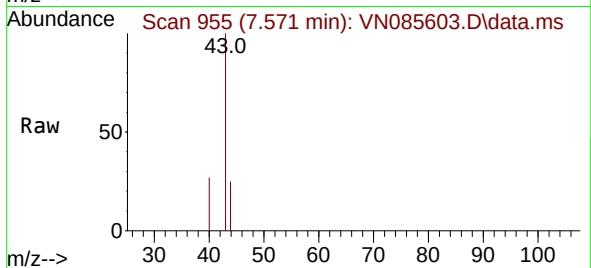
77 0.0 24.4 36.6#



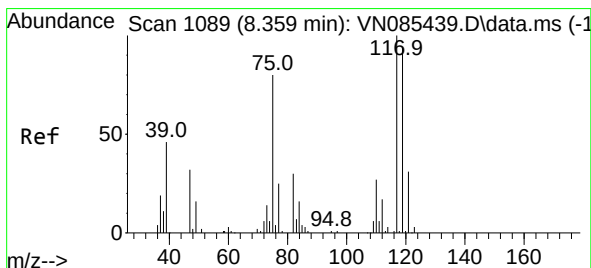
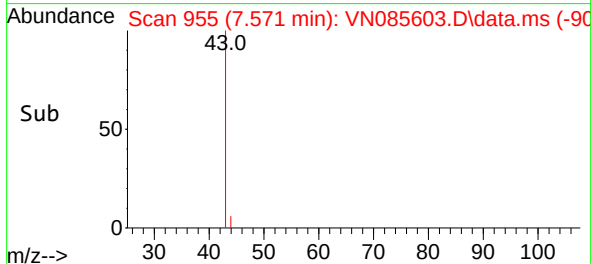
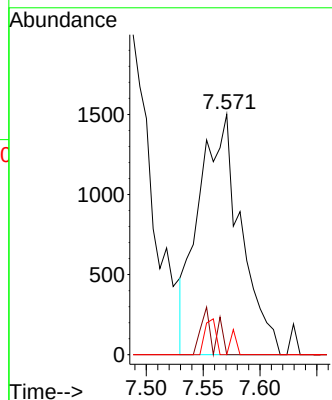


#37
Ethyl Acetate
Concen: 1.201 ug/l
RT: 7.571 min Scan# 91
Delta R.T. 0.018 min
Lab File: VN085603.D
Acq: 31 Jan 2025 15:39

Instrument :
MSVOA_N
ClientSampleId :

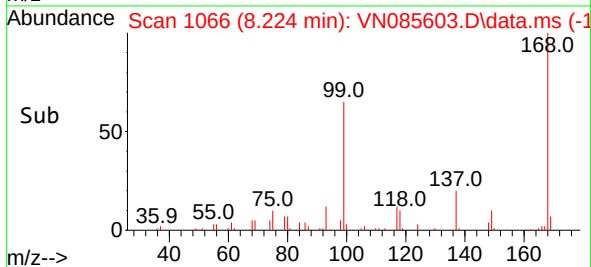
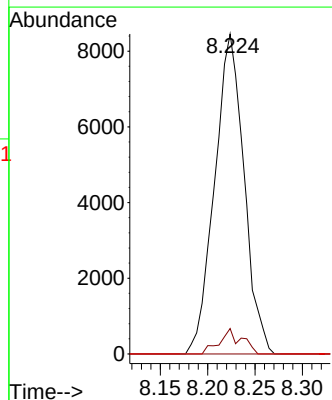
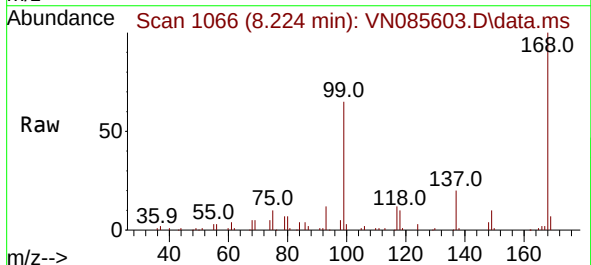


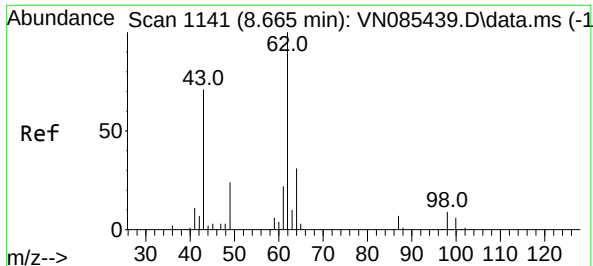
Tgt Ion: 43 Resp: 3868
Ion Ratio Lower Upper
43 100
61 0.0 10.9 16.3#
70 1.4 7.5 11.3#



#38
Carbon Tetrachloride
Concen: 4.995 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.135 min
Lab File: VN085603.D
Acq: 31 Jan 2025 15:39

Tgt Ion: 117 Resp: 18249
Ion Ratio Lower Upper
117 100
119 7.9 75.4 113.2#
121 0.0 24.6 37.0#





#42

1,2-Dichloroethane

Concen: 0.312 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.023 min

Lab File: VN085603.D

Acq: 31 Jan 2025 15:39

Instrument :

MSVOA_N

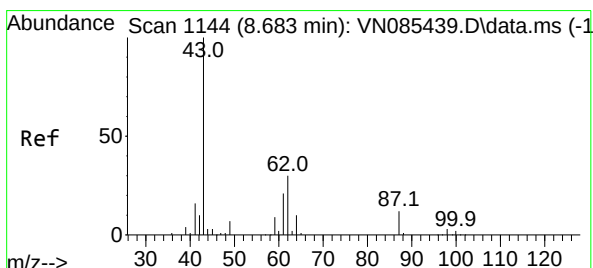
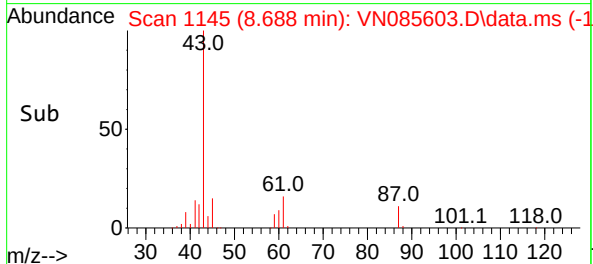
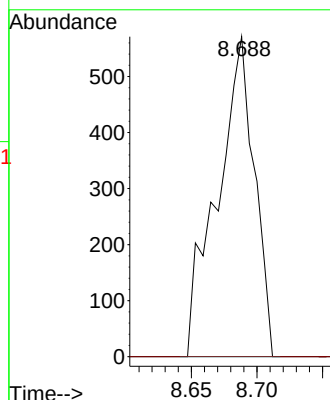
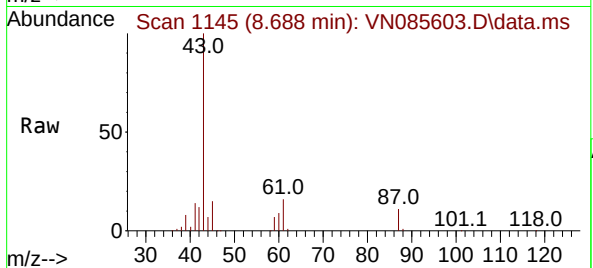
ClientSampleId :

Tgt Ion: 62 Resp: 1126

Ion Ratio Lower Upper

62 100

98 0.0 0.0 17.0



#43

Isopropyl Acetate

Concen: 41.420 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.006 min

Lab File: VN085603.D

Acq: 31 Jan 2025 15:39

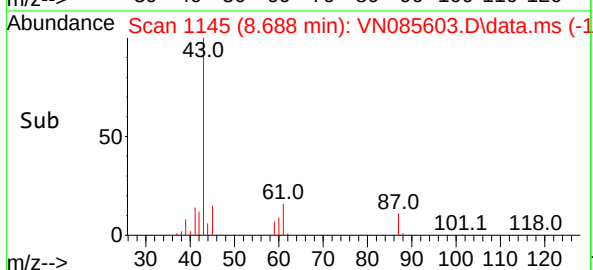
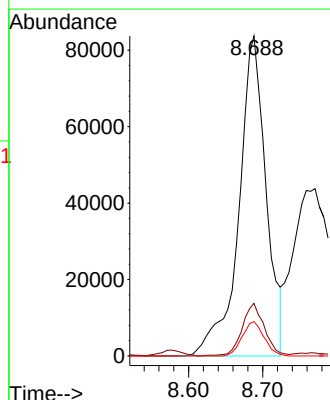
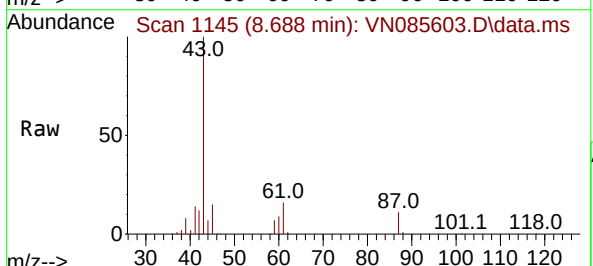
Tgt Ion: 43 Resp: 213778

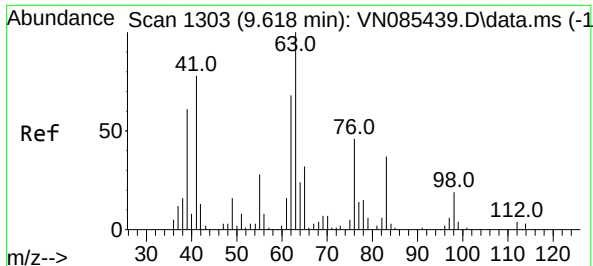
Ion Ratio Lower Upper

43 100

61 13.4 20.7 31.1#

87 8.6 9.8 14.8#





#45

1,2-Dichloropropane

Concen: 0.761 ug/l

RT: 9.735 min Scan# 11

Delta R.T. 0.118 min

Lab File: VN085603.D

Acq: 31 Jan 2025 15:39

Instrument :

MSVOA_N

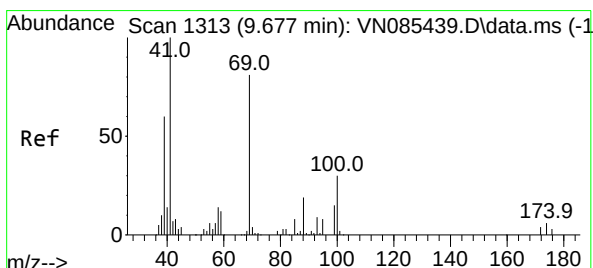
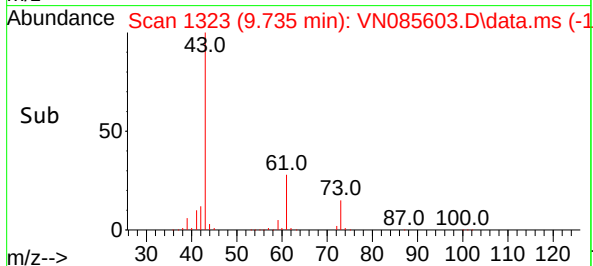
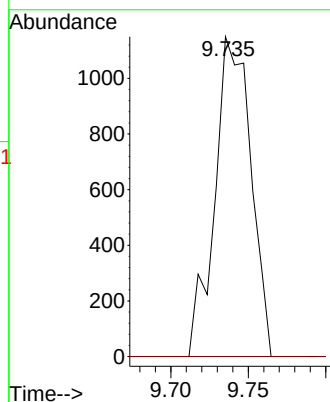
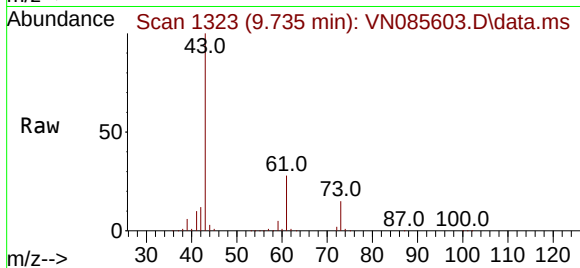
ClientSampleId :

Tgt Ion: 63 Resp: 1865

Ion Ratio Lower Upper

63 100

65 0.0 25.6 38.4#



#48

Methyl methacrylate

Concen: 62.884 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.064 min

Lab File: VN085603.D

Acq: 31 Jan 2025 15:39

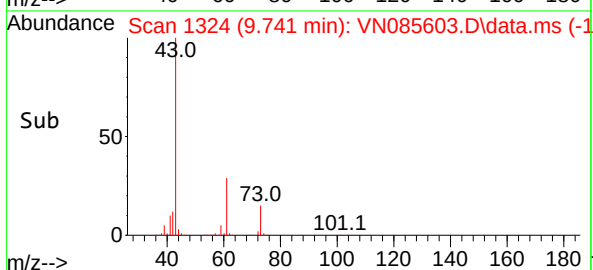
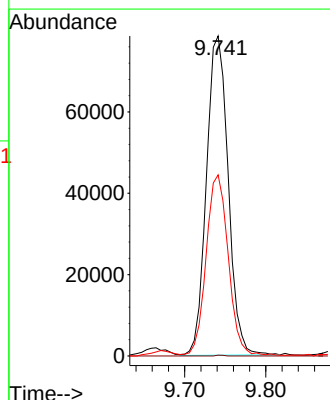
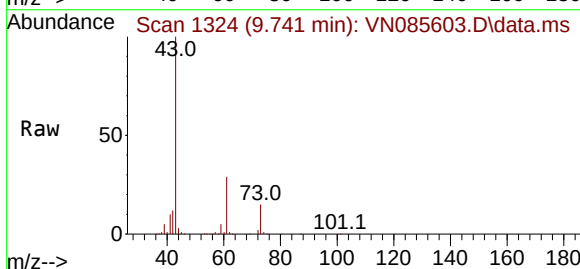
Tgt Ion: 41 Resp: 146057

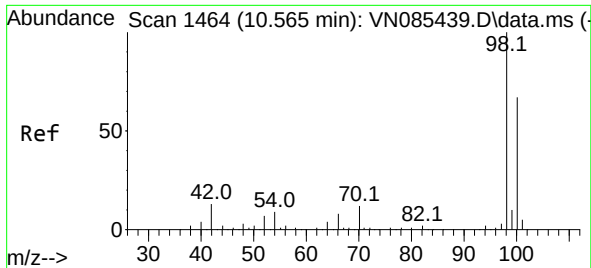
Ion Ratio Lower Upper

41 100

69 0.1 64.7 97.1#

39 57.5 49.0 73.6

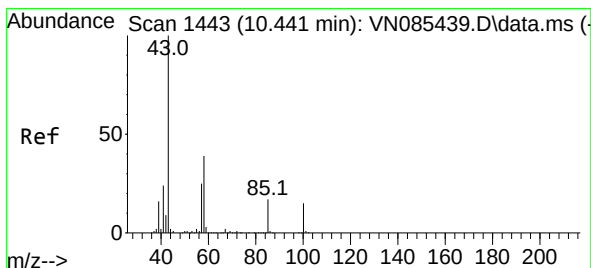
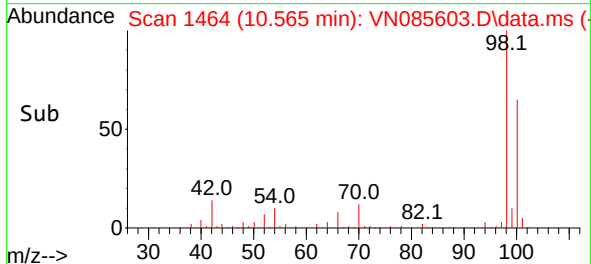
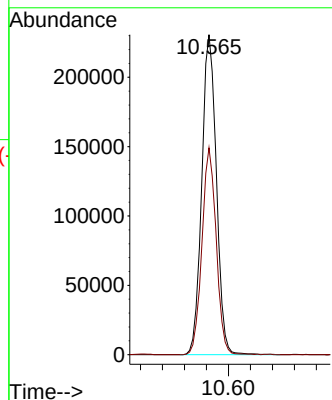
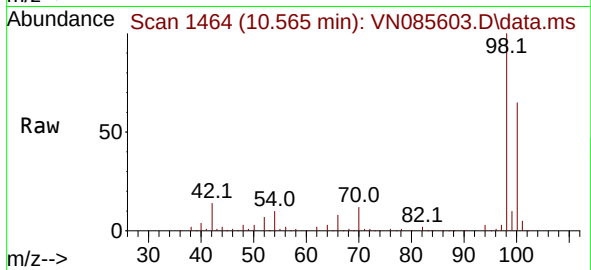




#50
Toluene-d8
Concen: 52.718 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN085603.D
Acq: 31 Jan 2025 15:39

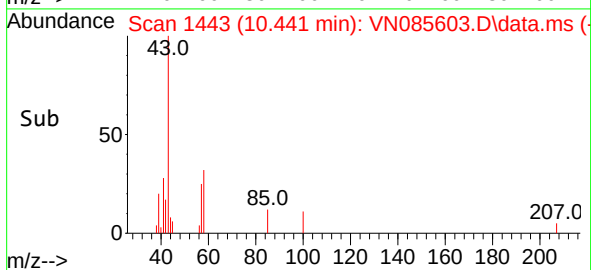
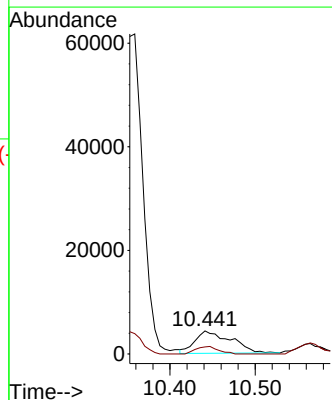
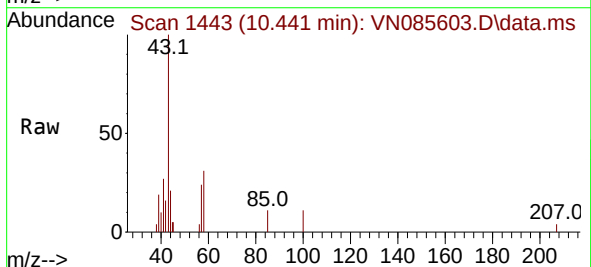
Instrument :
MSVOA_N
ClientSampleId :

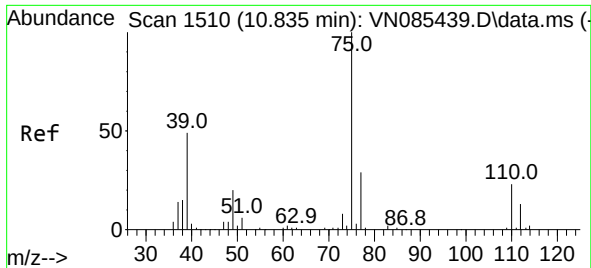
Tgt Ion: 98 Resp: 425881
Ion Ratio Lower Upper
98 100
100 63.0 52.2 78.4



#51
4-Methyl-2-Pentanone
Concen: 4.228 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085603.D
Acq: 31 Jan 2025 15:39

Tgt Ion: 43 Resp: 12664
Ion Ratio Lower Upper
43 100
58 20.9 30.5 45.7#

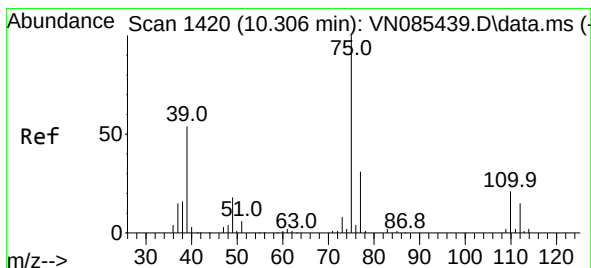
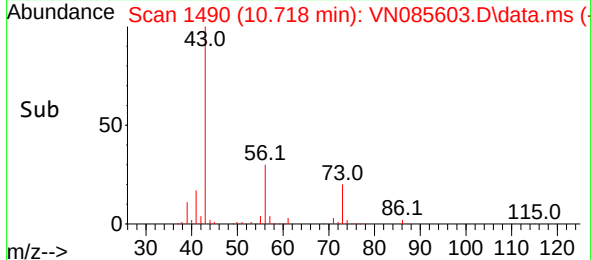
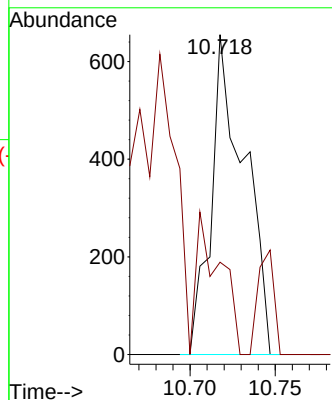
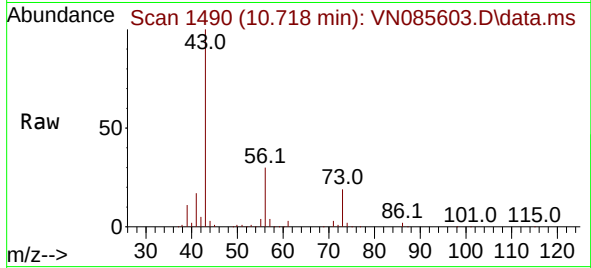




#53
 t-1,3-Dichloropropene
 Concen: 0.262 ug/l
 RT: 10.718 min Scan# 1490
 Delta R.T. -0.118 min
 Lab File: VN085603.D
 Acq: 31 Jan 2025 15:39

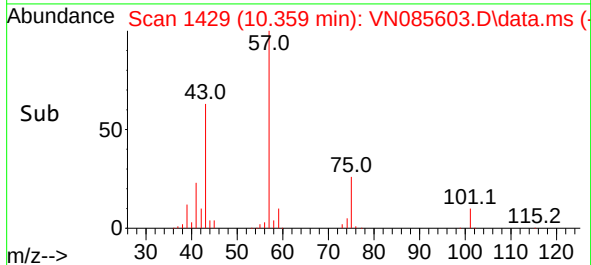
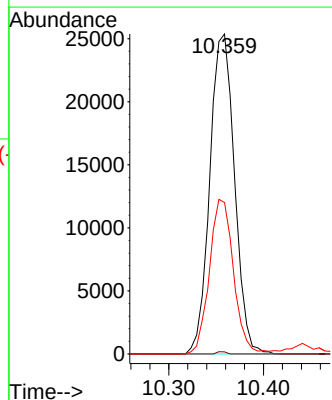
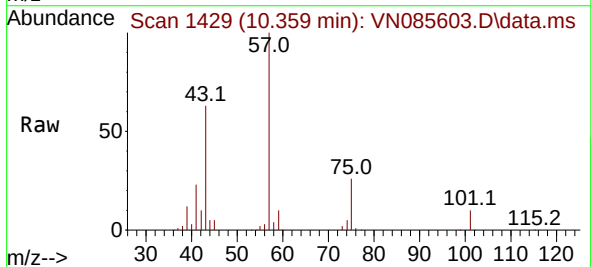
Instrument :
 MSVOA_N
 ClientSampleId :

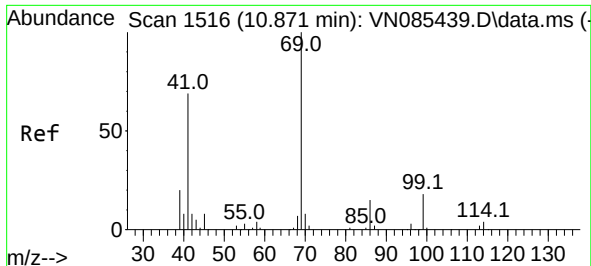
Tgt Ion: 75 Resp: 890
 Ion Ratio Lower Upper
 75 100
 77 28.9 23.5 35.3



#54
 cis-1,3-Dichloropropene
 Concen: 12.639 ug/l
 RT: 10.359 min Scan# 1429
 Delta R.T. 0.053 min
 Lab File: VN085603.D
 Acq: 31 Jan 2025 15:39

Tgt Ion: 75 Resp: 45933
 Ion Ratio Lower Upper
 75 100
 77 0.7 25.0 37.4#
 39 47.4 43.1 64.7

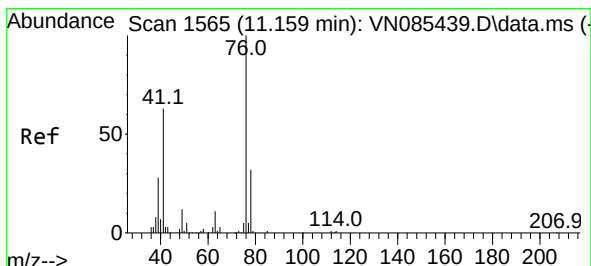
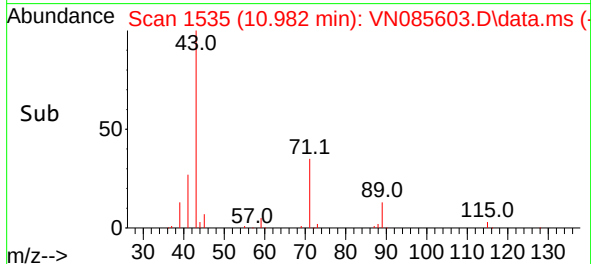
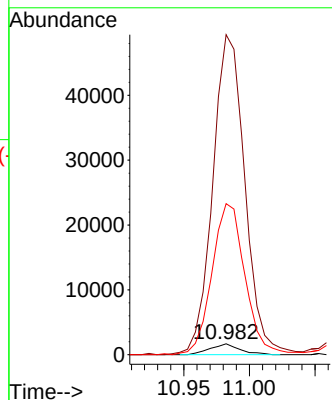
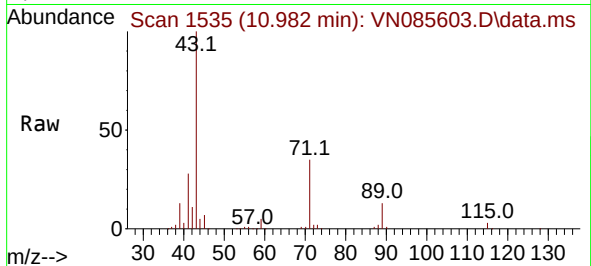




#56
Ethyl methacrylate
Concen: 2.613 ug/l
RT: 10.982 min Scan# 11
Delta R.T. 0.111 min
Lab File: VN085603.D
Acq: 31 Jan 2025 15:39

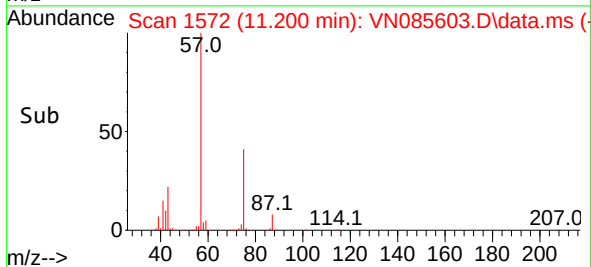
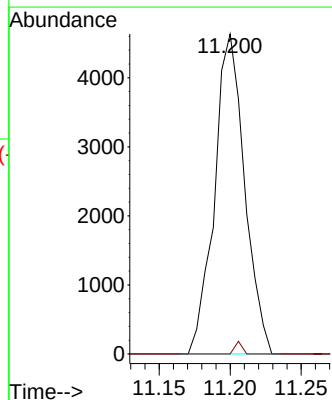
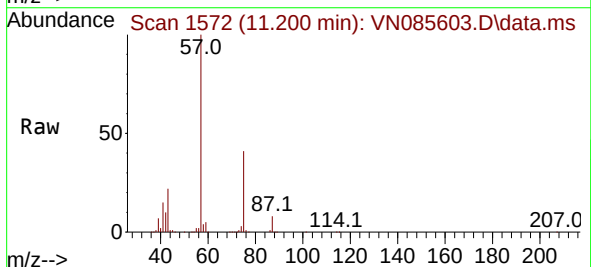
Instrument :
MSVOA_N
ClientSampleId :

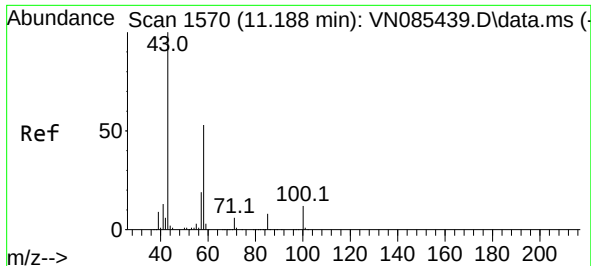
Tgt Ion: 69 Resp: 2629
Ion Ratio Lower Upper
69 100
41 3209.4 54.6 82.0#
39 1556.3 32.4 48.6#



#57
1,3-Dichloropropane
Concen: 1.785 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.041 min
Lab File: VN085603.D
Acq: 31 Jan 2025 15:39

Tgt Ion: 76 Resp: 6826
Ion Ratio Lower Upper
76 100
78 1.0 25.6 38.4#

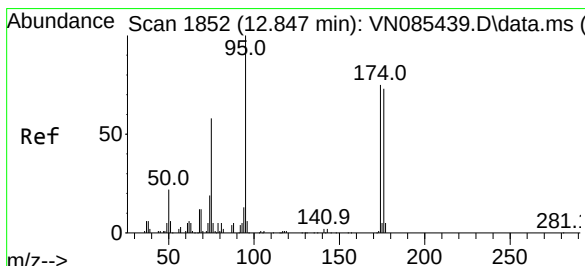
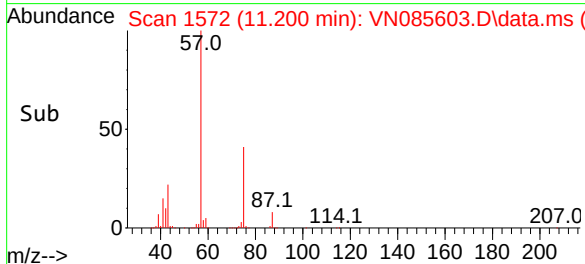
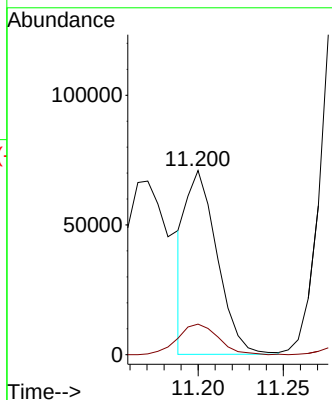
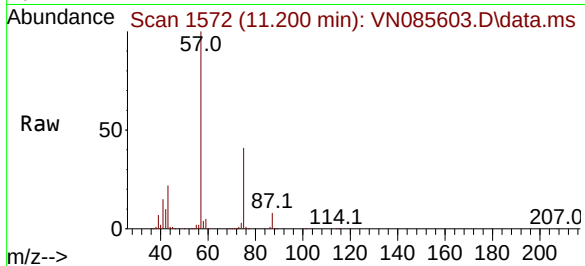




#59
2-Hexanone
Concen: 42.872 ug/l
RT: 11.200 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN085603.D
Acq: 31 Jan 2025 15:39

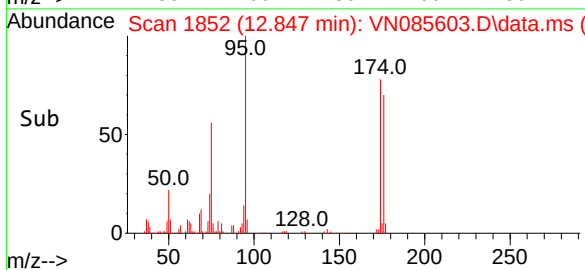
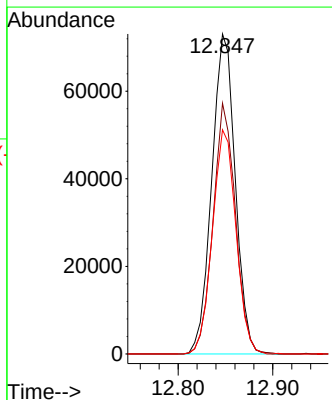
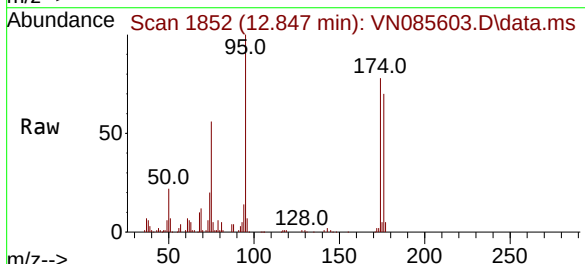
Instrument :
MSVOA_N
ClientSampleId :

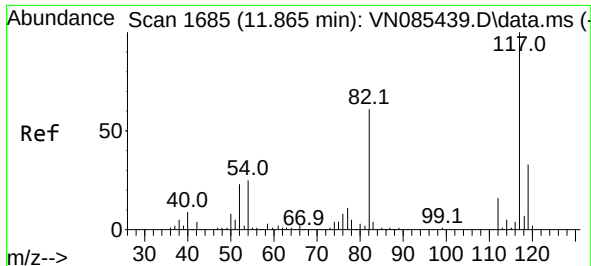
Tgt Ion: 43 Resp: 90347
Ion Ratio Lower Upper
43 100
58 21.8 26.2 78.6#



#62
4-Bromofluorobenzene
Concen: 45.479 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085603.D
Acq: 31 Jan 2025 15:39

Tgt Ion: 95 Resp: 125681
Ion Ratio Lower Upper
95 100
174 75.0 0.0 145.0
176 70.4 0.0 142.4

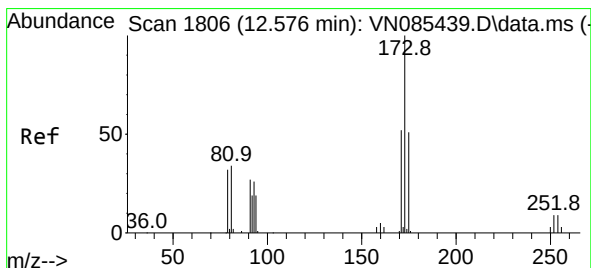
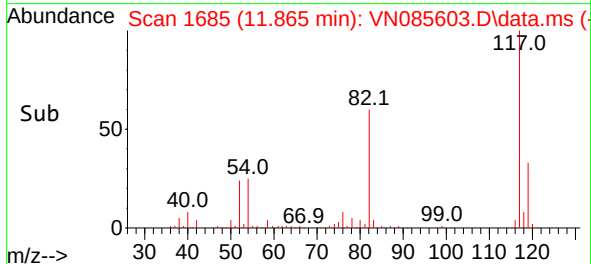
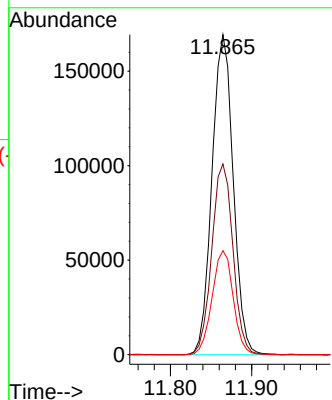
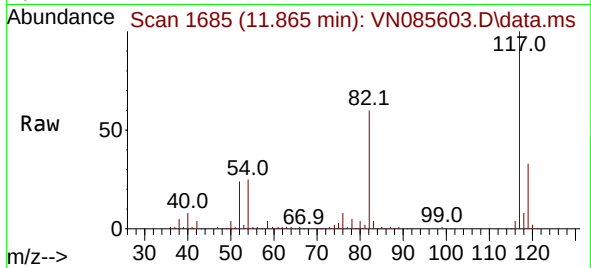




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN085603.D
Acq: 31 Jan 2025 15:39

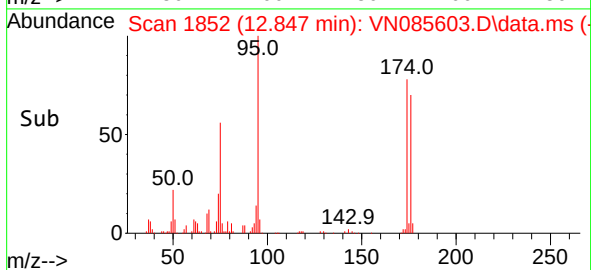
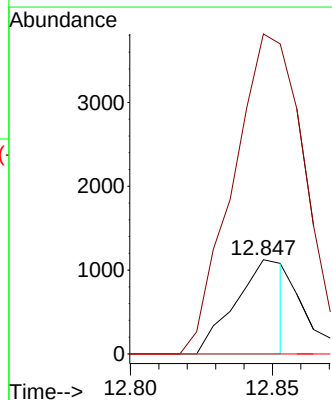
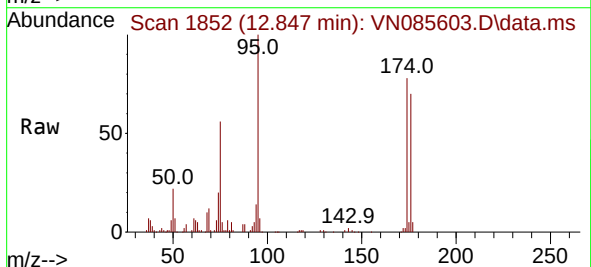
Instrument :
MSVOA_N
ClientSampleId :

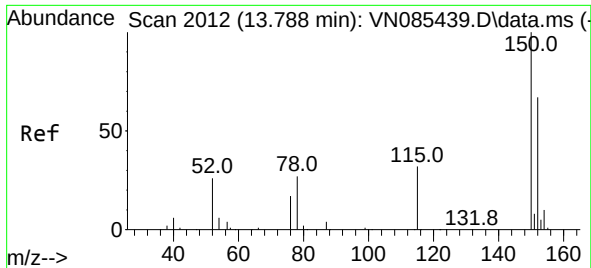
Tgt Ion:117 Resp: 307543
Ion Ratio Lower Upper
117 100
82 59.6 48.6 72.8
119 32.5 26.6 39.8



#71
Bromoform
Concen: 0.769 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.270 min
Lab File: VN085603.D
Acq: 31 Jan 2025 15:39

Tgt Ion:173 Resp: 1360
Ion Ratio Lower Upper
173 100
175 358.3 24.4 73.2#
254 0.0 0.0 0.0

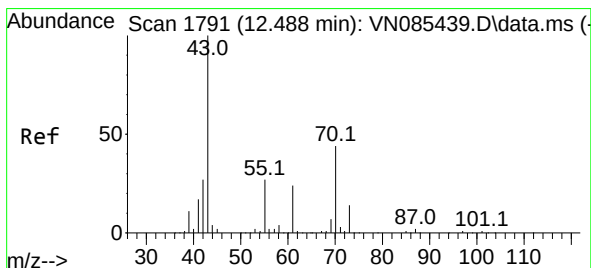
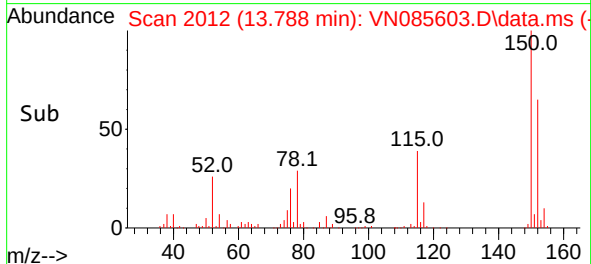
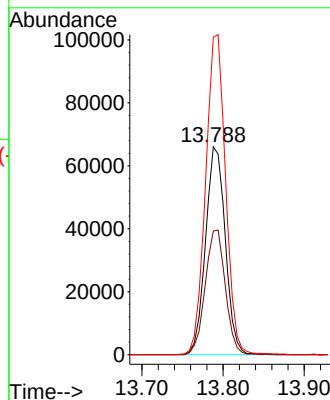
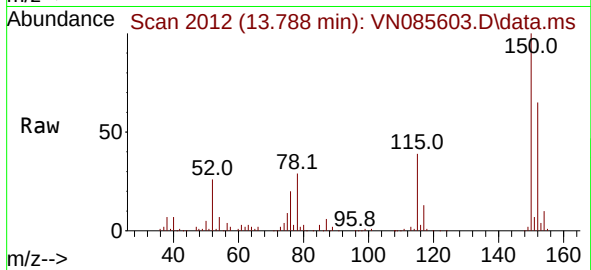




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.788 min Scan# 20
 Delta R.T. -0.000 min
 Lab File: VN085603.D
 Acq: 31 Jan 2025 15:39

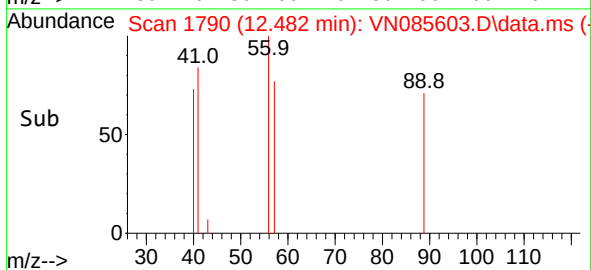
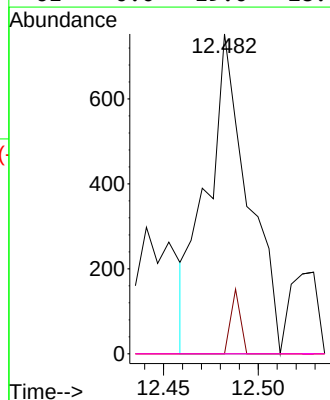
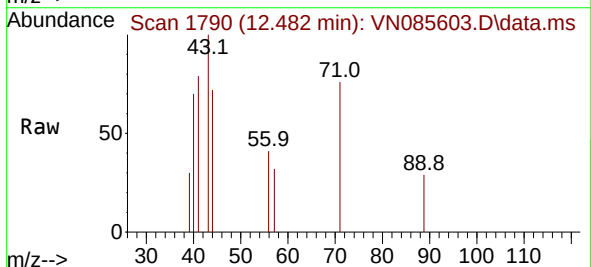
Instrument :
 MSVOA_N
 ClientSampleId :

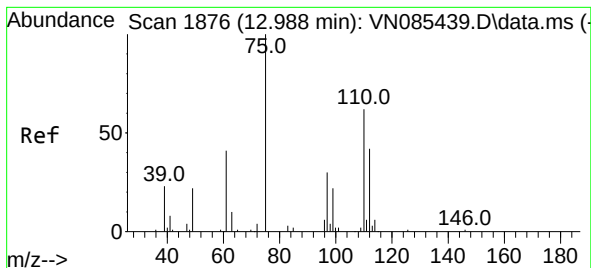
Tgt Ion:152 Resp: 111714
 Ion Ratio Lower Upper
 152 100
 115 61.1 31.1 93.3
 150 155.7 0.0 343.6



#74
 N-ethyl acetate
 Concen: 0.337 ug/l
 RT: 12.482 min Scan# 1790
 Delta R.T. -0.006 min
 Lab File: VN085603.D
 Acq: 31 Jan 2025 15:39

Tgt Ion: 43 Resp: 1143
 Ion Ratio Lower Upper
 43 100
 70 4.7 34.0 51.0#
 55 0.0 21.4 32.2#
 61 0.0 19.0 28.4#





#76

1,2,3-Trichloropropane

Concen: 31.152 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.141 min

Lab File: VN085603.D

Acq: 31 Jan 2025 15:39

Instrument :

MSVOA_N

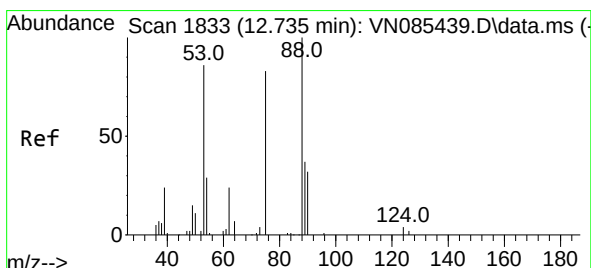
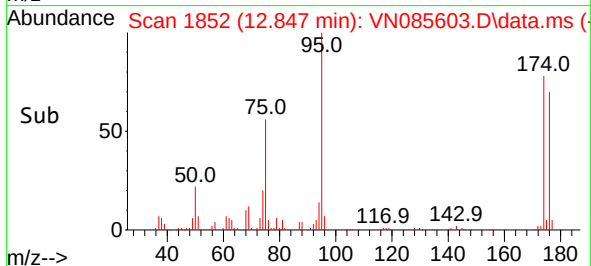
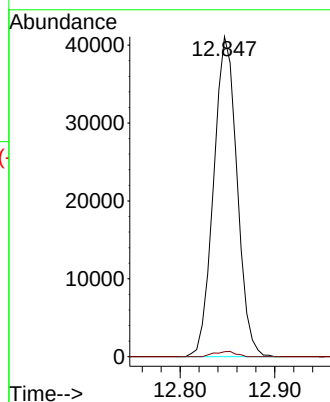
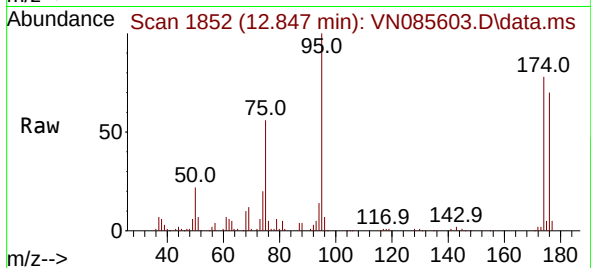
ClientSampleId :

Tgt Ion: 75 Resp: 70735

Ion Ratio Lower Upper

75 100

77 1.5 109.7 329.2#



#81

trans-1,4-Dichloro-2-butene

Concen: 84.285 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.112 min

Lab File: VN085603.D

Acq: 31 Jan 2025 15:39

Tgt Ion: 75 Resp: 70735

Ion Ratio Lower Upper

75 100

53 0.1 95.6 143.4#

89 0.0 37.0 55.6#

