

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032625\
 Data File : VN086127.D
 Acq On : 26 Mar 2025 15:35
 Operator : JC\MD
 Sample : Q1635-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-2

Quant Time: Mar 27 01:39:00 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 19 03:20:56 2025
 Response via : Initial Calibration

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

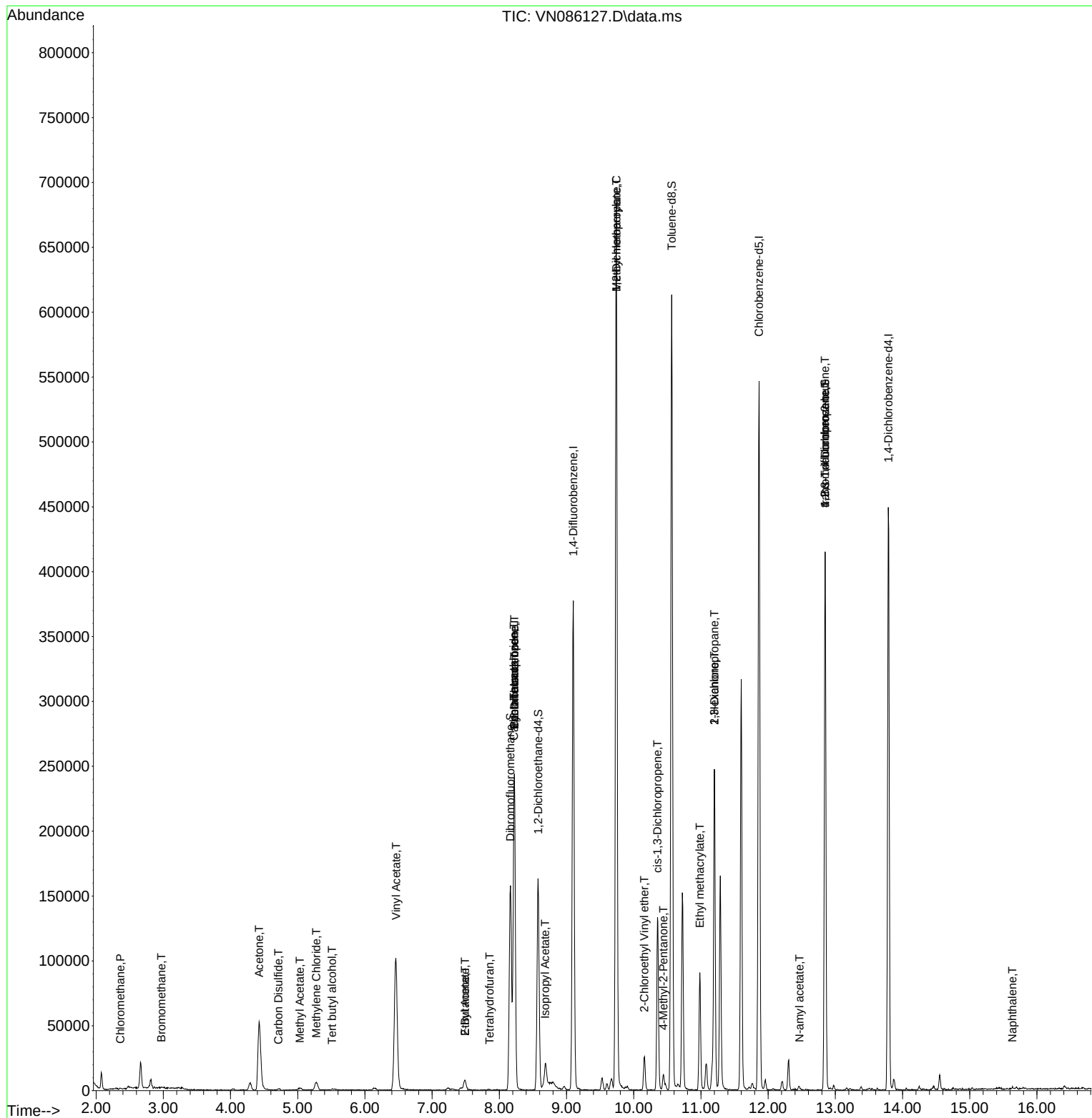
Internal Standards						
1) Pentafluorobenzene	8.224	168	178603	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	329480	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	326217	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	130406	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	133445	54.564	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery	= 109.120%		
35) Dibromofluoromethane	8.165	113	117397	51.048	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery	= 102.100%		
50) Toluene-d8	10.565	98	435781	52.212	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery	= 104.420%		
62) 4-Bromofluorobenzene	12.847	95	144828	48.656	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery	= 97.320%		
Target Compounds						
						Qvalue
3) Chloromethane	2.360	50	490	0.236	ug/l #	86
5) Bromomethane	2.971	94	623	0.431	ug/l	97
11) Tert butyl alcohol	5.512	59	1146	3.310	ug/l #	73
16) Acetone	4.424	43	98089	131.279	ug/l	99
17) Carbon Disulfide	4.712	76	1663	0.276	ug/l #	74
18) Methyl Acetate	5.030	43	3663	1.981	ug/l #	79
20) Methylene Chloride	5.277	84	5367	2.455	ug/l	93
23) Vinyl Acetate	6.465	43	2039	0.553	ug/l #	66
25) 2-Butanone	7.489	43	13155	12.202	ug/l #	82
29) Tetrahydrofuran	7.853	42	571	0.858	ug/l #	24
31) Cyclohexane	8.224	56	3466	1.137	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	14105	4.658	ug/l #	48
37) Ethyl Acetate	7.489	43	13155	5.149	ug/l #	64
38) Carbon Tetrachloride	8.218	117	19421	4.878	ug/l #	16
43) Isopropyl Acetate	8.683	43	26370	4.763	ug/l #	75
45) 1,2-Dichloropropane	9.741	63	944	0.437	ug/l #	44
48) Methyl methacrylate	9.741	41	59403	32.518	ug/l #	32
51) 4-Methyl-2-Pentanone	10.441	43	10676	4.373	ug/l #	78
54) cis-1,3-Dichloropropene	10.353	75	25993	7.138	ug/l #	63
56) Ethyl methacrylate	10.982	69	890	0.505	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	2617	0.692	ug/l #	42
58) 2-Chloroethyl Vinyl ether	10.159	63	11825	14.224	ug/l	97
59) 2-Hexanone	11.200	43	45354	25.500	ug/l #	41
74) N-amyl acetate	12.465	43	2382	0.799	ug/l #	40
76) 1,2,3-Trichloropropane	12.847	75	71951	24.645	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	71951	65.156	ug/l #	16
95) Naphthalene	15.635	128	1735	0.268	ug/l #	73

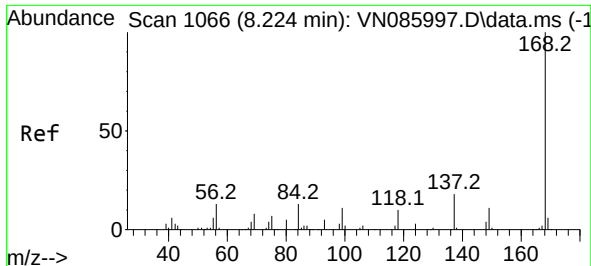
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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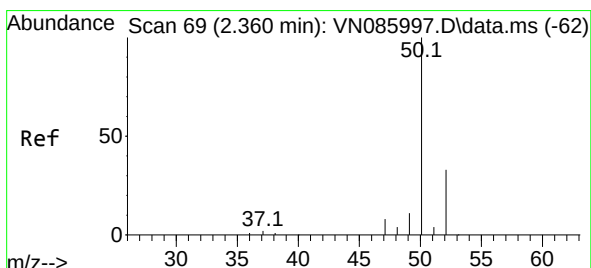
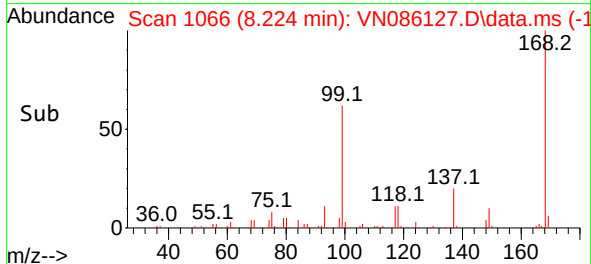
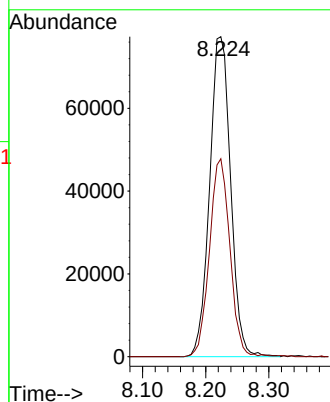
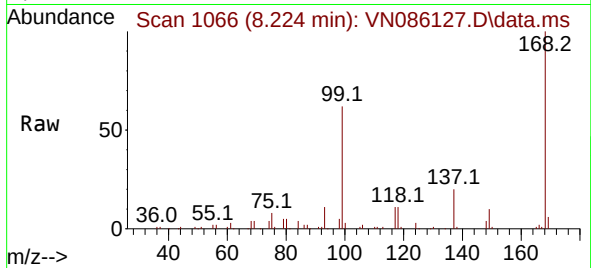




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN086127.D
Acq: 26 Mar 2025 15:35

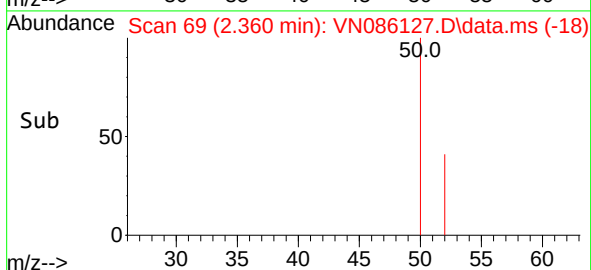
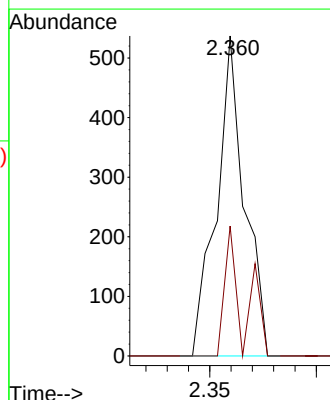
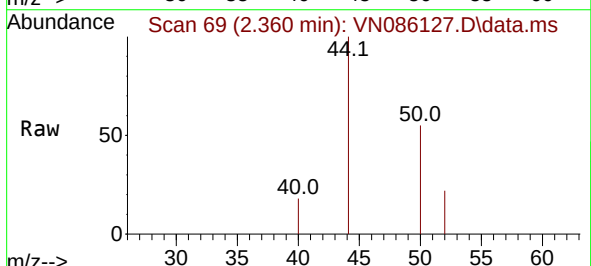
Instrument :
MSVOA_N
ClientSampleId :
TP-2

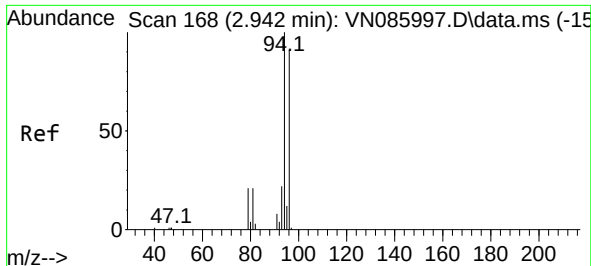
Tgt Ion:168 Resp: 178603
Ion Ratio Lower Upper
168 100
99 61.9 49.4 74.2



#3
Chloromethane
Concen: 0.236 ug/l
RT: 2.360 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN086127.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 50 Resp: 490
Ion Ratio Lower Upper
50 100
52 40.6 26.0 39.0#

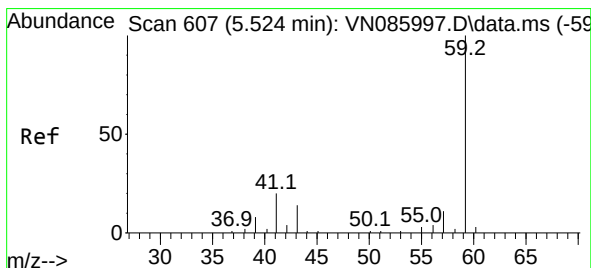
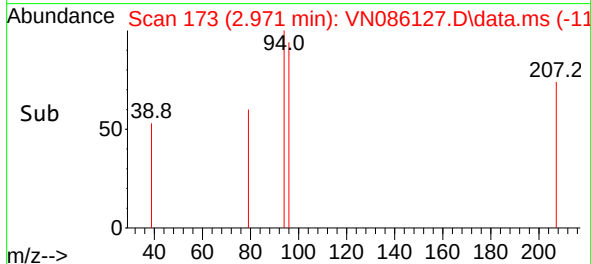
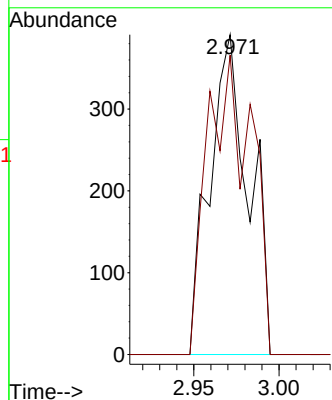
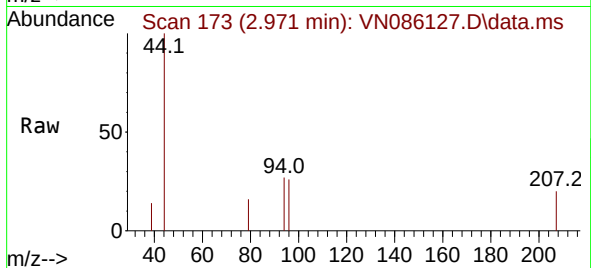




#5
Bromomethane
Concen: 0.431 ug/l
RT: 2.971 min Scan# 11
Delta R.T. 0.029 min
Lab File: VN086127.D
Acq: 26 Mar 2025 15:35

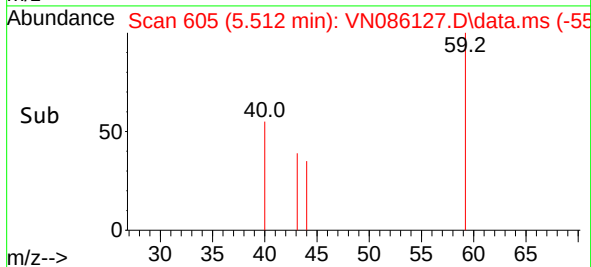
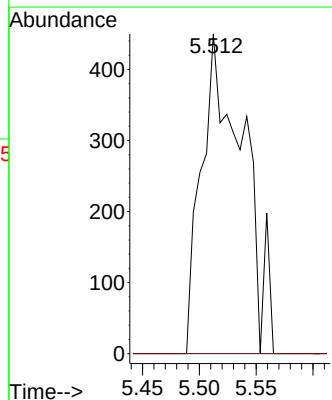
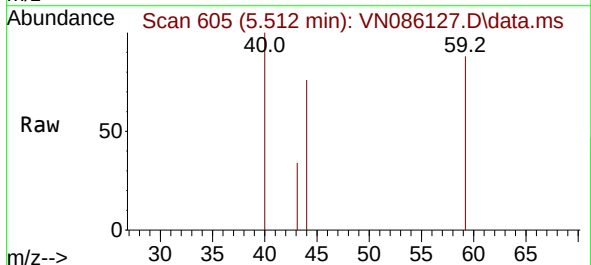
Instrument :
MSVOA_N
ClientSampleId :
TP-2

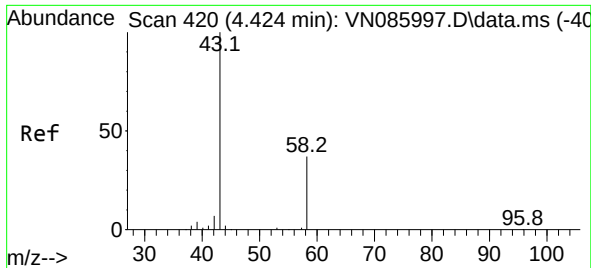
Tgt Ion: 94 Resp: 623
Ion Ratio Lower Upper
94 100
96 93.6 72.8 109.2



#11
Tert butyl alcohol
Concen: 3.310 ug/l
RT: 5.512 min Scan# 605
Delta R.T. -0.012 min
Lab File: VN086127.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 59 Resp: 1146
Ion Ratio Lower Upper
59 100
57 0.0 7.9 11.9#

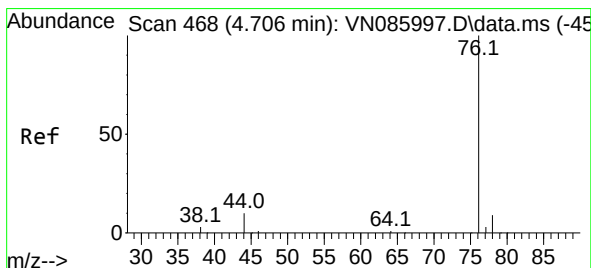
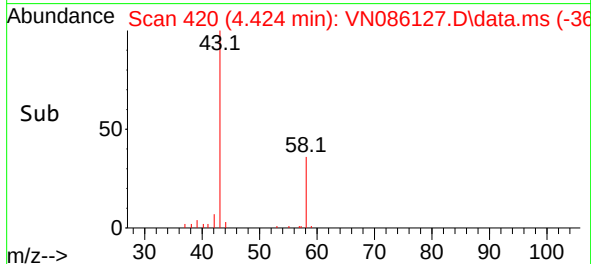
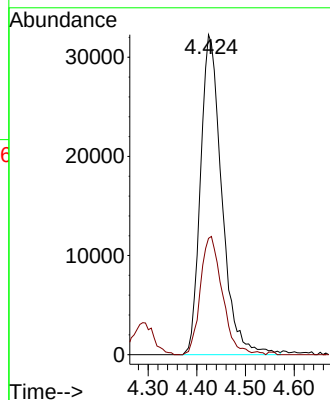
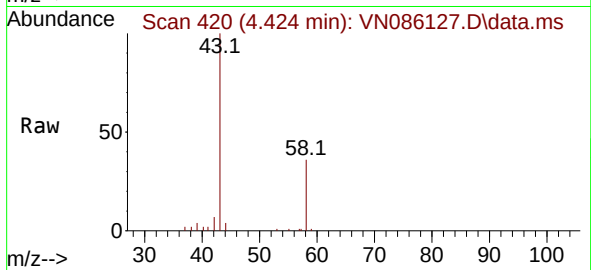




#16
Acetone
Concen: 131.279 ug/l
RT: 4.424 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN086127.D
Acq: 26 Mar 2025 15:35

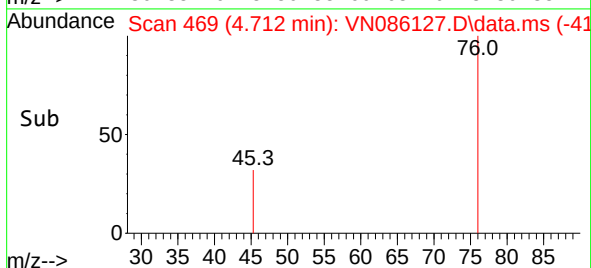
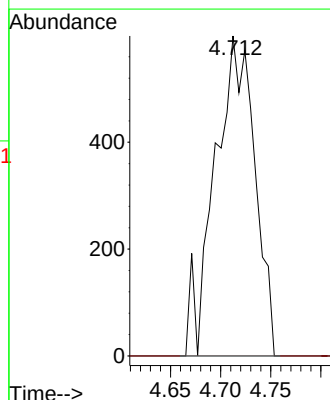
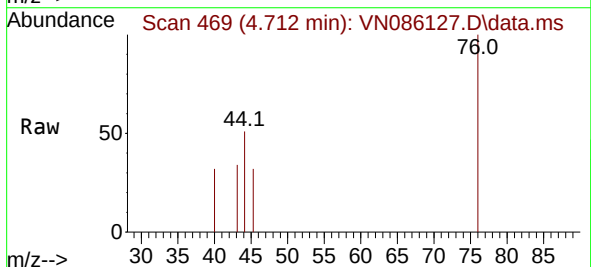
Instrument :
MSVOA_N
ClientSampleId :
TP-2

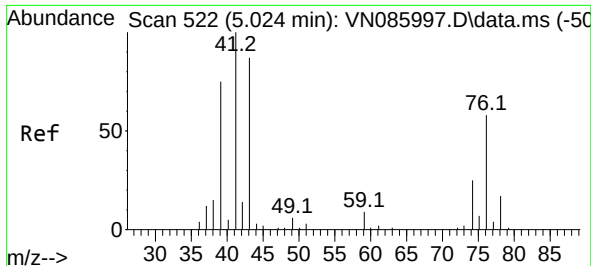
Tgt Ion: 43 Resp: 98089
Ion Ratio Lower Upper
43 100
58 36.4 29.4 44.2



#17
Carbon Disulfide
Concen: 0.276 ug/l
RT: 4.712 min Scan# 469
Delta R.T. 0.006 min
Lab File: VN086127.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 76 Resp: 1663
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.2#

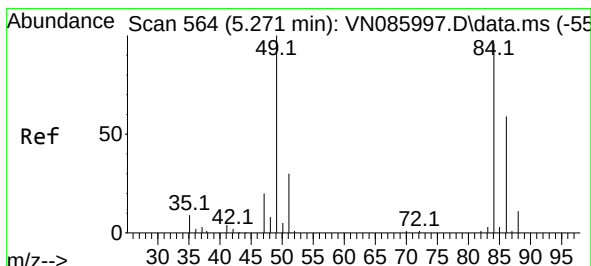
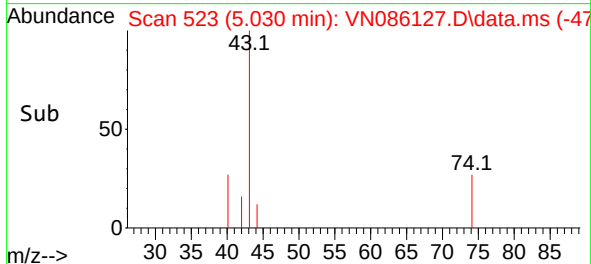
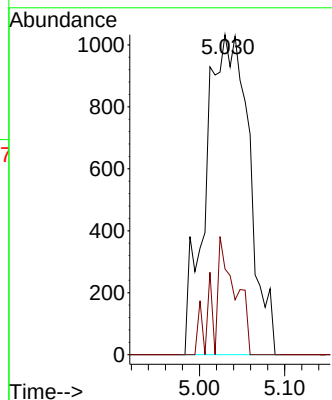
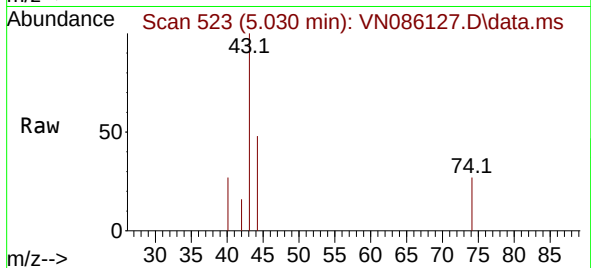




#18
Methyl Acetate
Concen: 1.981 ug/l
RT: 5.030 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN086127.D
Acq: 26 Mar 2025 15:35

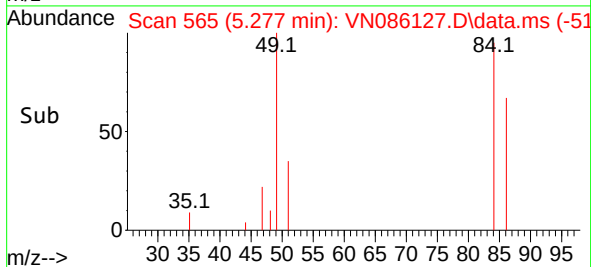
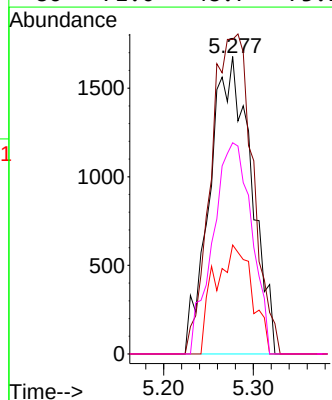
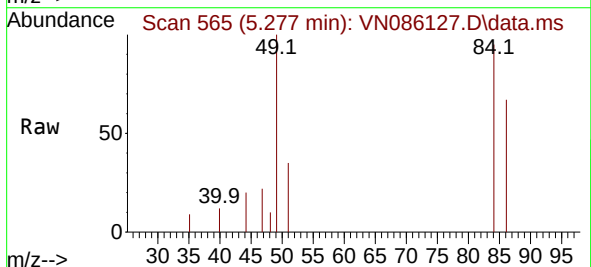
Instrument :
MSVOA_N
ClientSampleId :
TP-2

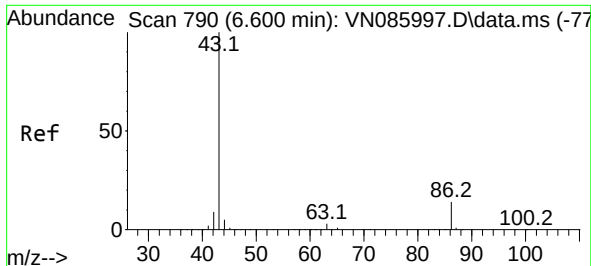
Tgt Ion: 43 Resp: 3663
Ion Ratio Lower Upper
43 100
74 18.8 23.9 35.9#



#20
Methylene Chloride
Concen: 2.455 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.006 min
Lab File: VN086127.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 84 Resp: 5367
Ion Ratio Lower Upper
84 100
49 105.7 83.3 124.9
51 36.6 24.8 37.2
86 71.0 48.7 73.1

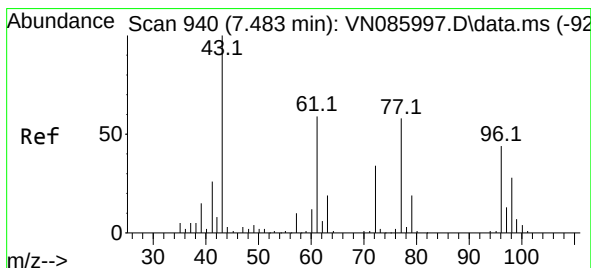
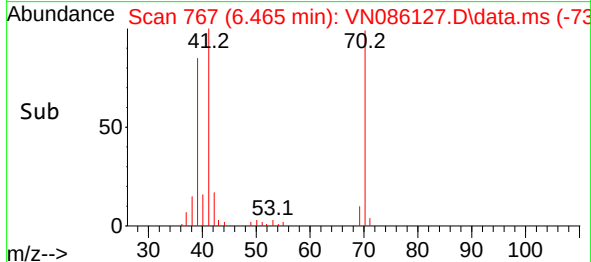
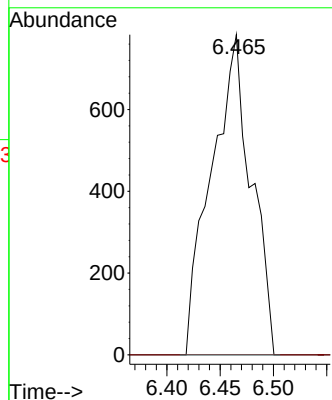
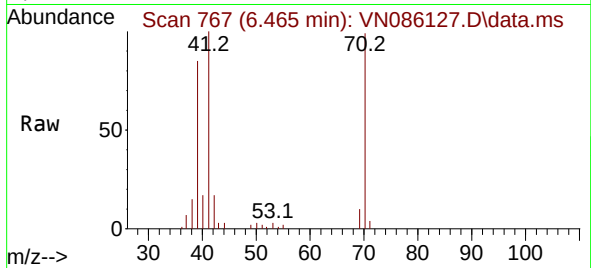




#23
 Vinyl Acetate
 Concen: 0.553 ug/l
 RT: 6.465 min Scan# 70
 Delta R.T. -0.135 min
 Lab File: VN086127.D
 Acq: 26 Mar 2025 15:35

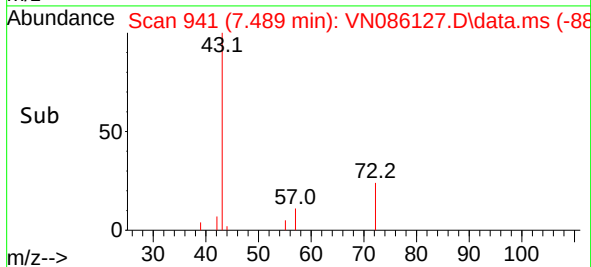
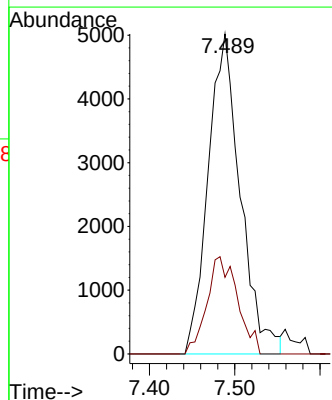
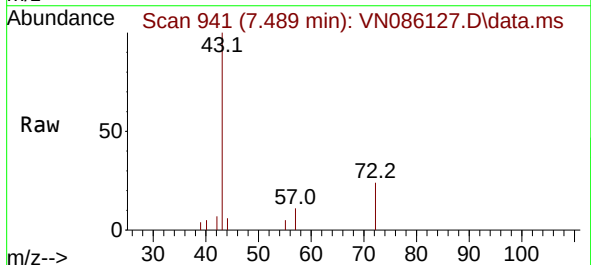
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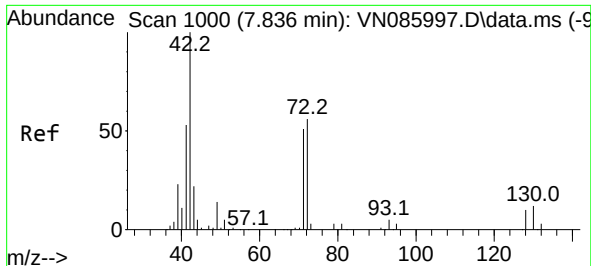
Tgt Ion: 43 Resp: 2039
 Ion Ratio Lower Upper
 43 100
 86 0.0 11.2 16.8#



#25
 2-Butanone
 Concen: 12.202 ug/l
 RT: 7.489 min Scan# 941
 Delta R.T. 0.006 min
 Lab File: VN086127.D
 Acq: 26 Mar 2025 15:35

Tgt Ion: 43 Resp: 13155
 Ion Ratio Lower Upper
 43 100
 72 23.9 27.4 41.0#

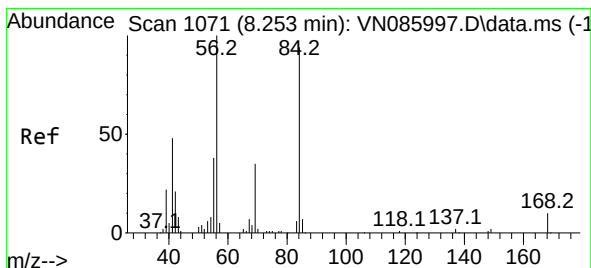
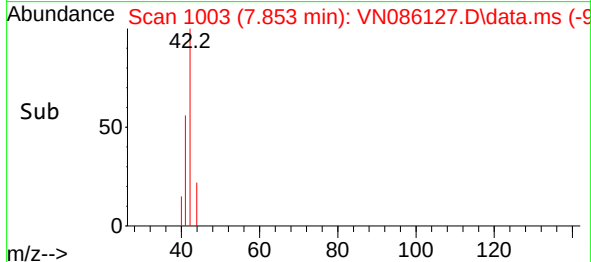
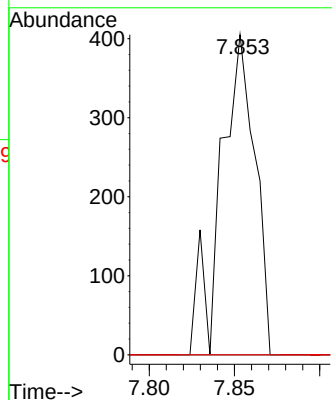
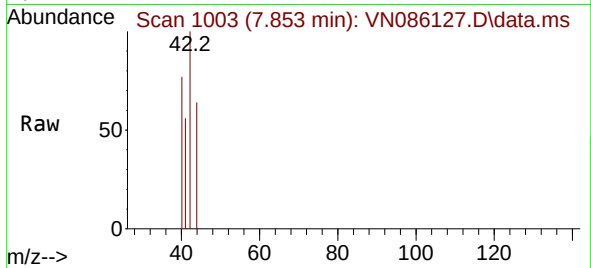




#29
Tetrahydrofuran
Concen: 0.858 ug/l
RT: 7.853 min Scan# 1066
Delta R.T. 0.018 min
Lab File: VN086127.D
Acq: 26 Mar 2025 15:35

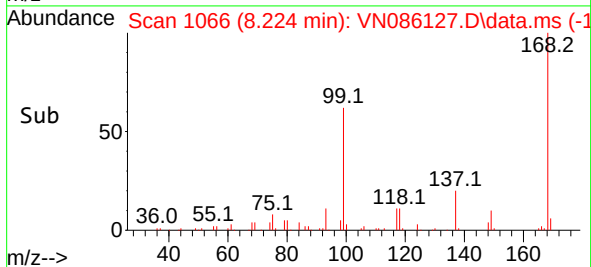
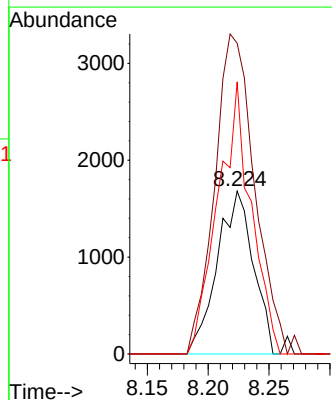
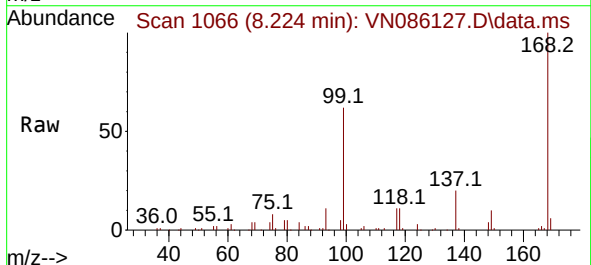
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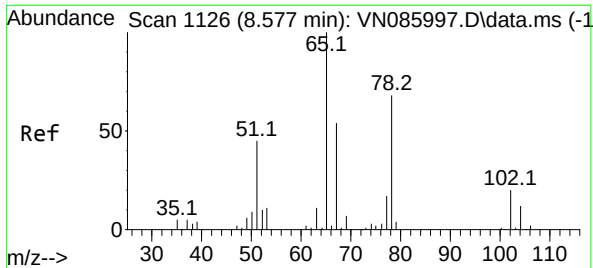
Tgt Ion: 42 Resp: 571
Ion Ratio Lower Upper
42 100
72 0.0 45.0 67.4#
71 0.0 41.9 62.9#



#31
Cyclohexane
Concen: 1.137 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.029 min
Lab File: VN086127.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 56 Resp: 3466
Ion Ratio Lower Upper
56 100
69 190.8 28.0 42.0#
84 167.1 75.0 112.6#





#33

1,2-Dichloroethane-d4

Concen: 54.564 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086127.D

Acq: 26 Mar 2025 15:35

Instrument :

MSVOA_N

ClientSampleId :

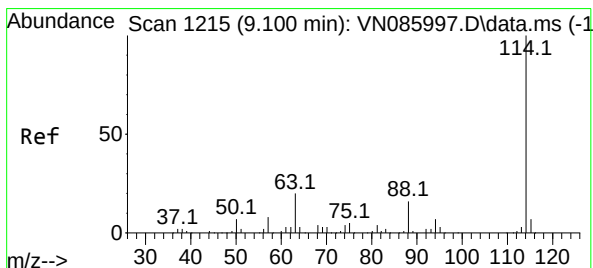
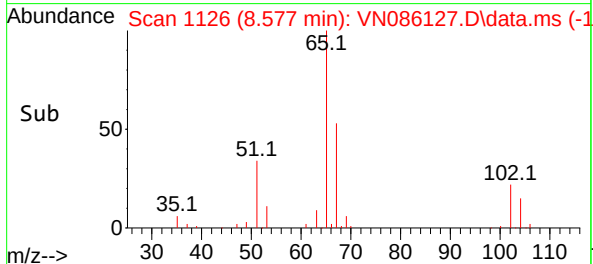
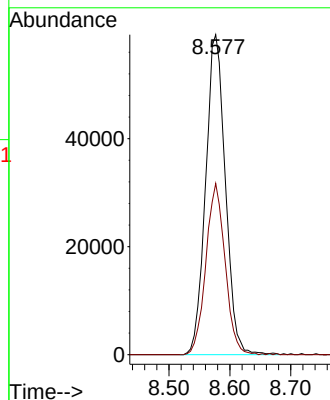
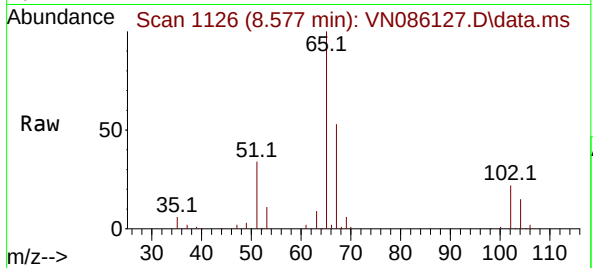
TP-2

Tgt Ion: 65 Resp: 133445

Ion Ratio Lower Upper

65 100

67 52.1 0.0 102.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN086127.D

Acq: 26 Mar 2025 15:35

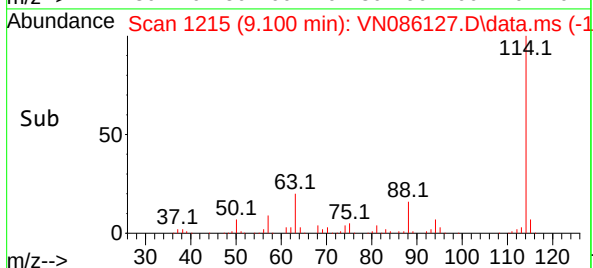
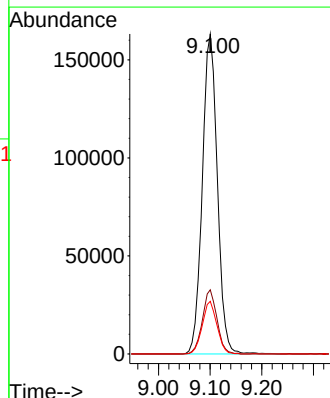
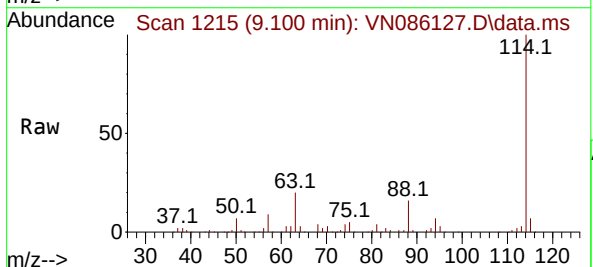
Tgt Ion: 114 Resp: 329480

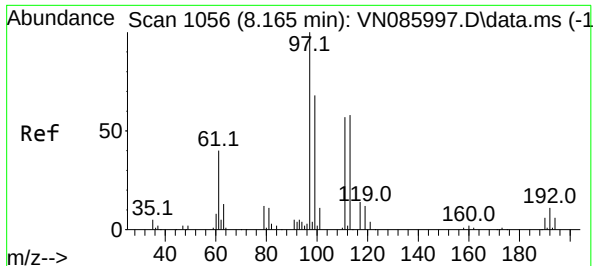
Ion Ratio Lower Upper

114 100

63 20.1 0.0 39.6

88 16.4 0.0 32.6





#35

Dibromofluoromethane

Concen: 51.048 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086127.D

Acq: 26 Mar 2025 15:35

Instrument :

MSVOA_N

ClientSampleId :

TP-2

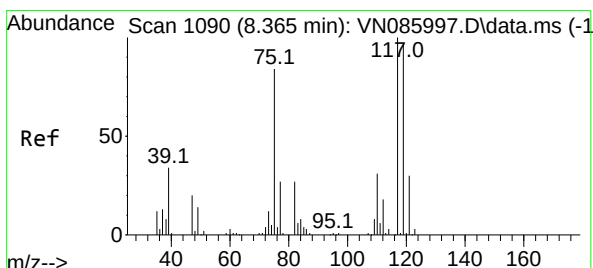
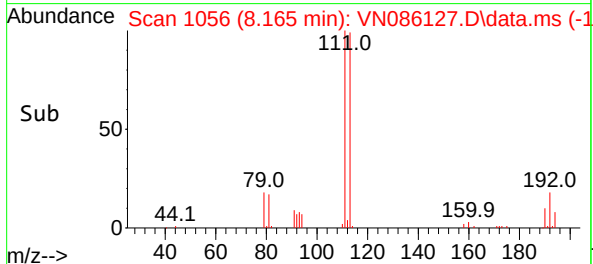
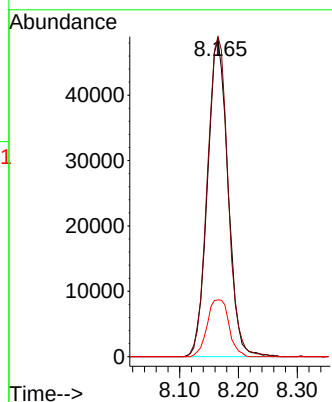
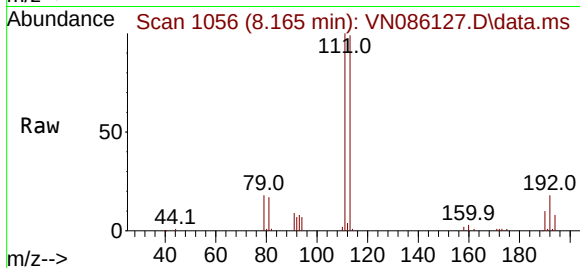
Tgt Ion:113 Resp: 117397

Ion Ratio Lower Upper

113 100

111 102.1 81.8 122.8

192 19.0 15.9 23.9



#36

1,1-Dichloropropene

Concen: 4.658 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

Lab File: VN086127.D

Acq: 26 Mar 2025 15:35

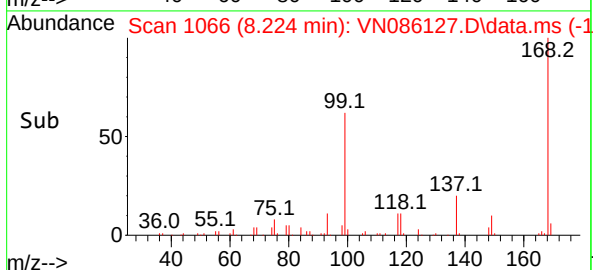
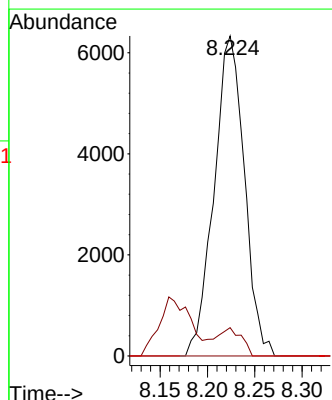
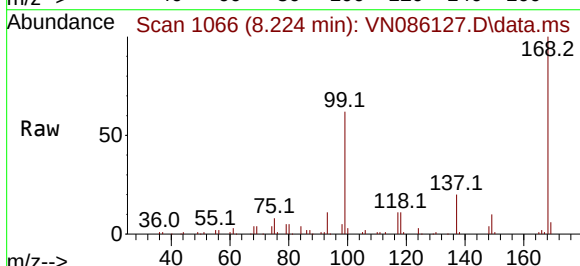
Tgt Ion: 75 Resp: 14105

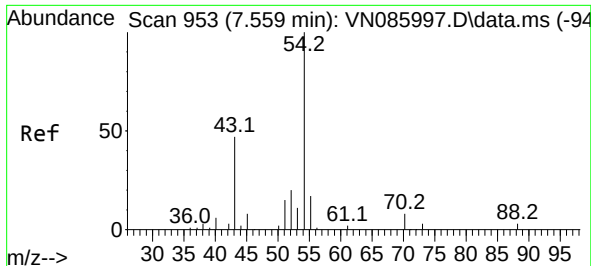
Ion Ratio Lower Upper

75 100

110 7.2 17.8 53.3#

77 0.0 25.0 37.4#





#37

Ethyl Acetate

Concen: 5.149 ug/l

RT: 7.489 min Scan# 941

Delta R.T. -0.071 min

Lab File: VN086127.D

Acq: 26 Mar 2025 15:35

Instrument :

MSVOA_N

ClientSampleId :

TP-2

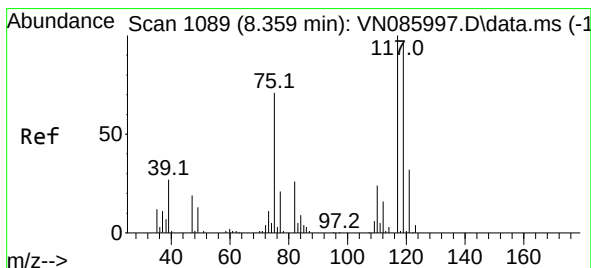
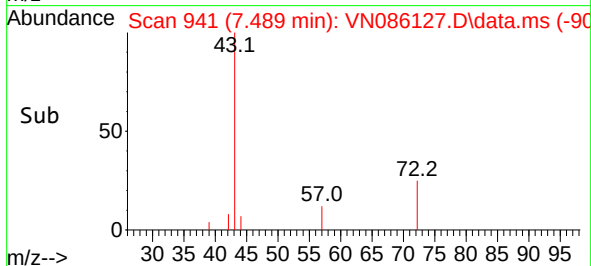
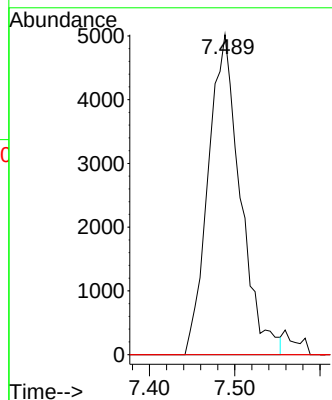
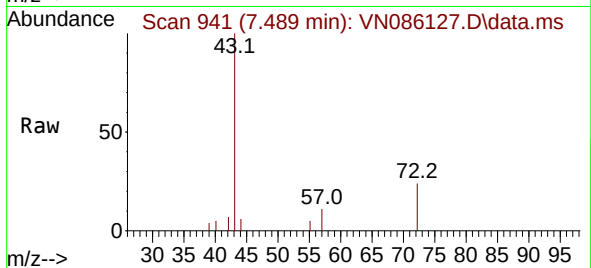
Tgt Ion: 43 Resp: 13155

Ion Ratio Lower Upper

43 100

61 0.0 13.0 19.4#

70 0.0 11.0 16.6#



#38

Carbon Tetrachloride

Concen: 4.878 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.141 min

Lab File: VN086127.D

Acq: 26 Mar 2025 15:35

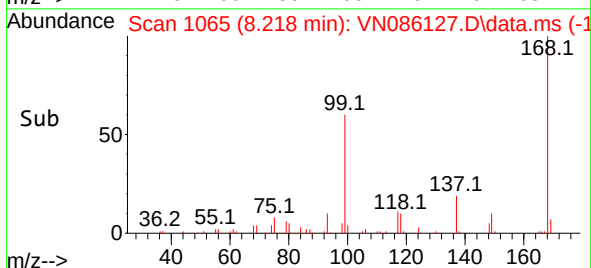
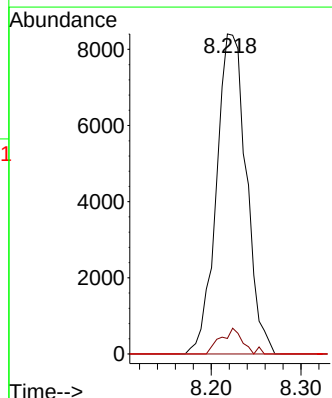
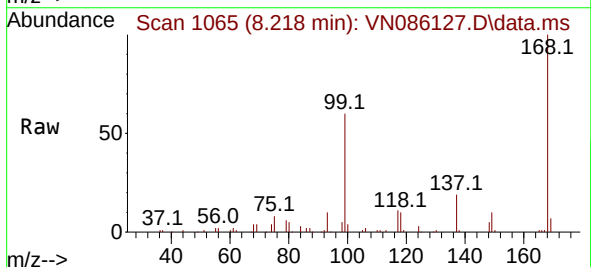
Tgt Ion: 117 Resp: 19421

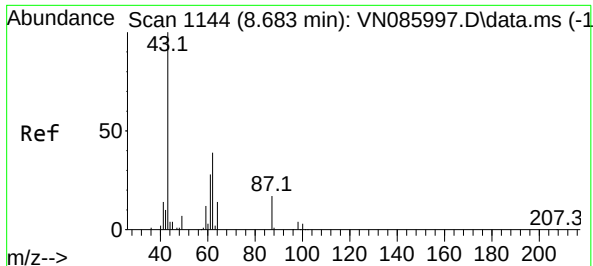
Ion Ratio Lower Upper

117 100

119 4.9 77.0 115.4#

121 0.0 25.6 38.4#





#43

Isopropyl Acetate

Concen: 4.763 ug/l

RT: 8.683 min Scan# 1144

Delta R.T. -0.000 min

Lab File: VN086127.D

Acq: 26 Mar 2025 15:35

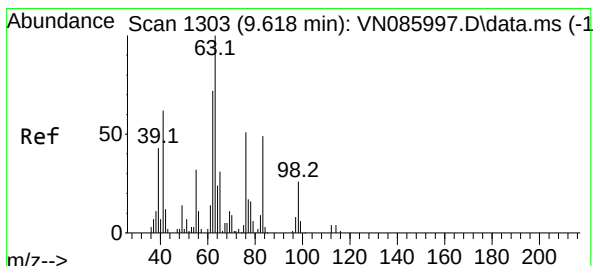
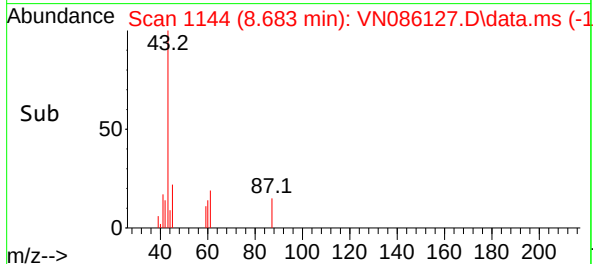
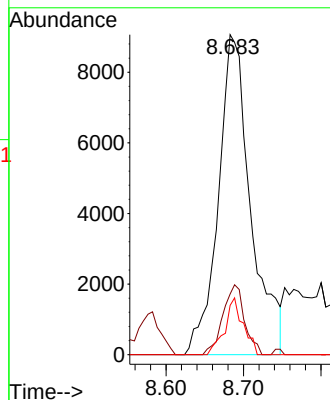
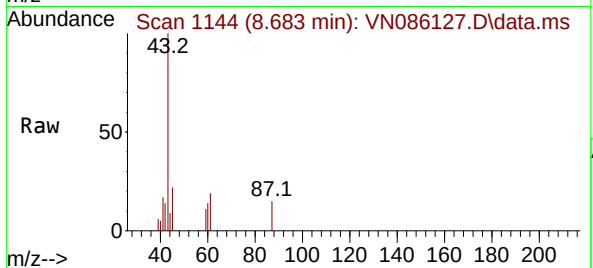
Instrument :

MSVOA_N

ClientSampleId :

TP-2

Tgt Ion:	43	Resp:	26370
Ion	Ratio	Lower	Upper
43	100		
61	14.6	25.0	37.6#
87	10.1	13.0	19.4#



#45

1,2-Dichloropropane

Concen: 0.437 ug/l

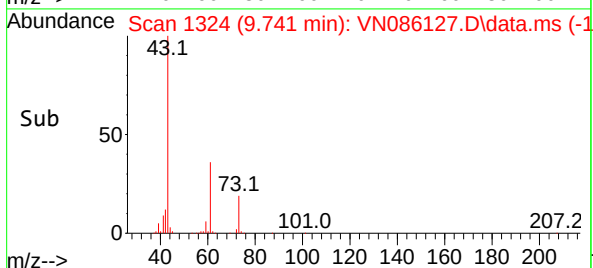
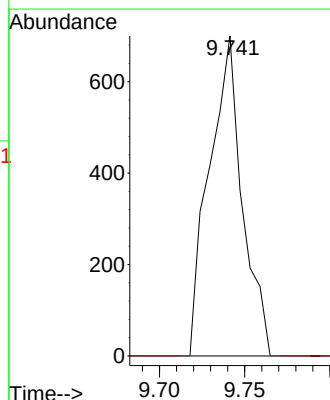
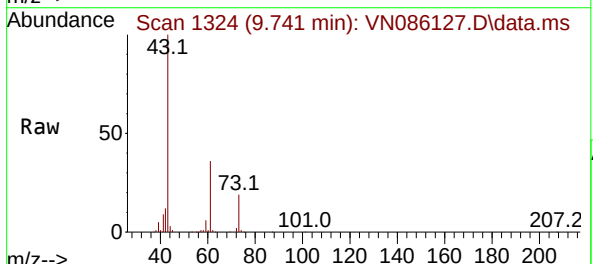
RT: 9.741 min Scan# 1324

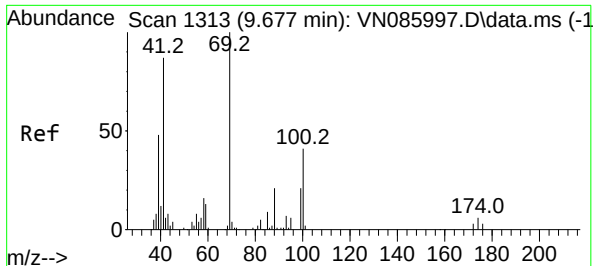
Delta R.T. 0.123 min

Lab File: VN086127.D

Acq: 26 Mar 2025 15:35

Tgt Ion:	63	Resp:	944
Ion	Ratio	Lower	Upper
63	100		
65	0.0	24.7	37.1#

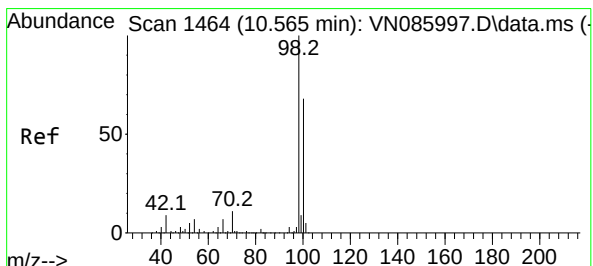
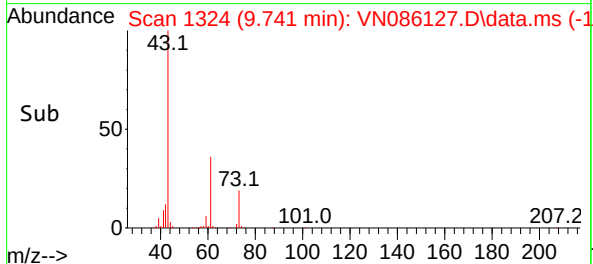
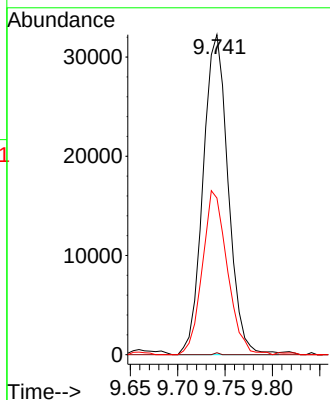
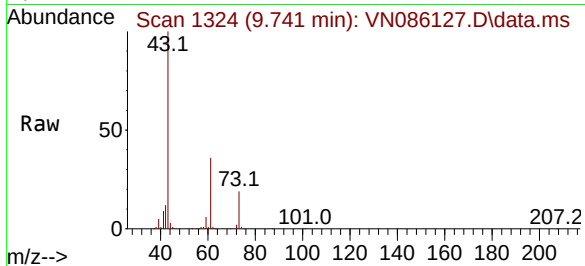




#48
Methyl methacrylate
Concen: 32.518 ug/l
RT: 9.741 min Scan# 11
Delta R.T. 0.065 min
Lab File: VN086127.D
Acq: 26 Mar 2025 15:35

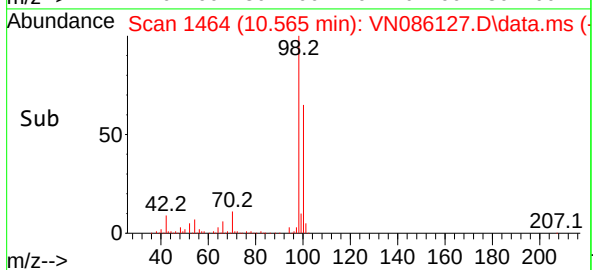
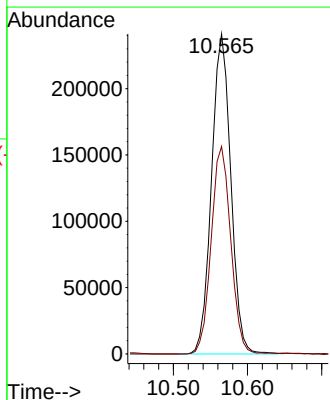
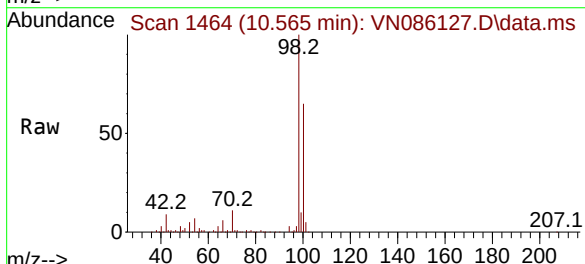
Instrument :
MSVOA_N
ClientSampleId :
TP-2

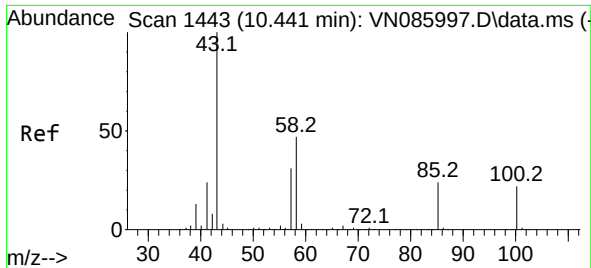
Tgt Ion: 41 Resp: 59403
Ion Ratio Lower Upper
41 100
69 0.1 83.1 124.7#
39 51.1 45.6 68.4



#50
Toluene-d8
Concen: 52.212 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086127.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 98 Resp: 435781
Ion Ratio Lower Upper
98 100
100 65.9 53.1 79.7

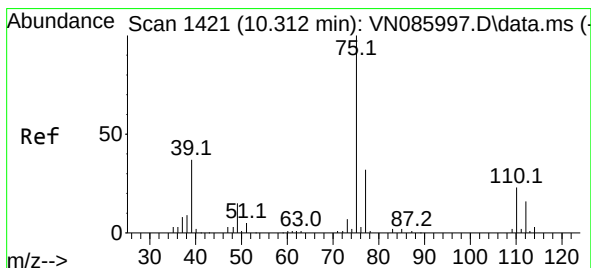
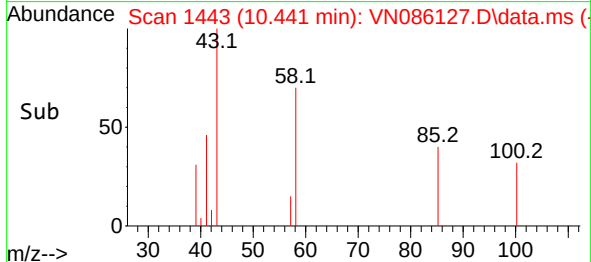
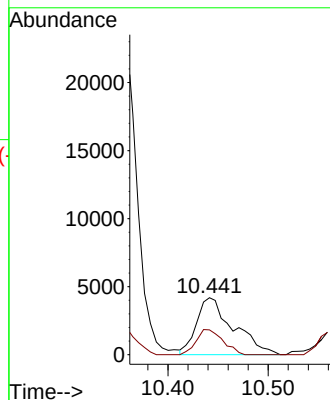
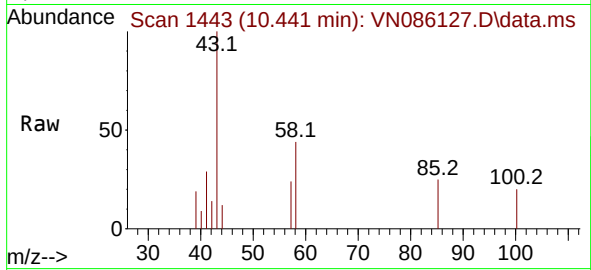




#51
4-Methyl-2-Pentanone
Concen: 4.373 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086127.D
Acq: 26 Mar 2025 15:35

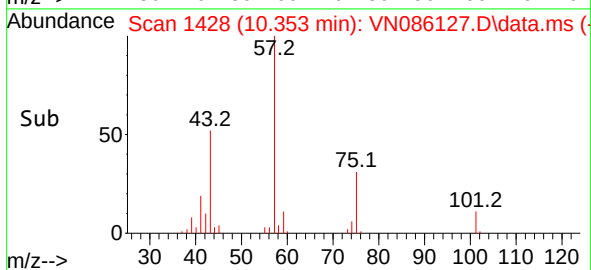
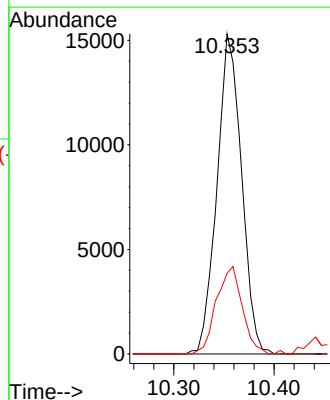
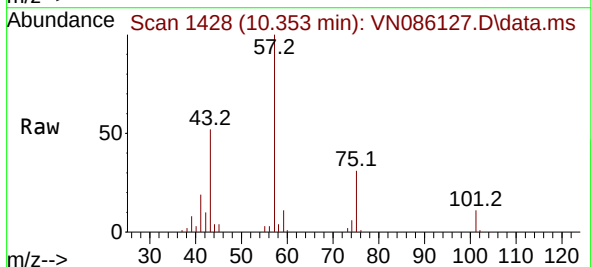
Instrument :
MSVOA_N
ClientSampleId :
TP-2

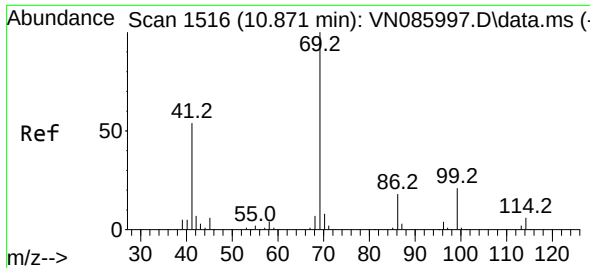
Tgt Ion: 43 Resp: 10676
Ion Ratio Lower Upper
43 100
58 31.9 37.4 56.0#



#54
cis-1,3-Dichloropropene
Concen: 7.138 ug/l
RT: 10.353 min Scan# 1428
Delta R.T. 0.041 min
Lab File: VN086127.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 75 Resp: 25993
Ion Ratio Lower Upper
75 100
77 0.0 25.3 37.9#
39 25.1 29.6 44.4#

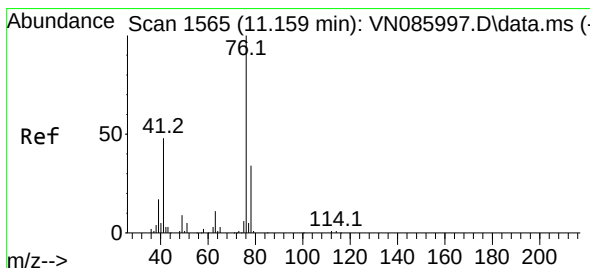
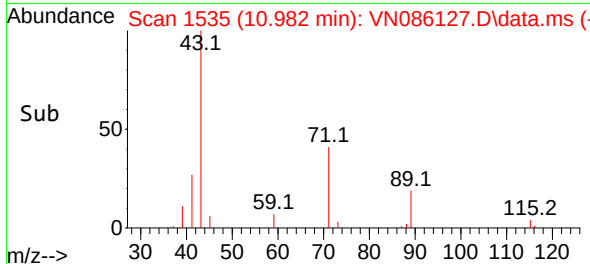
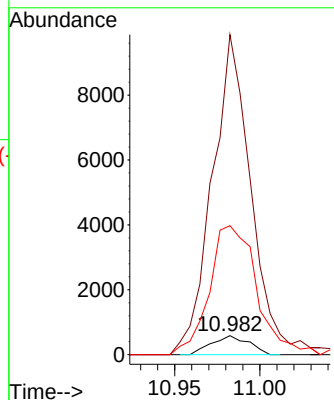
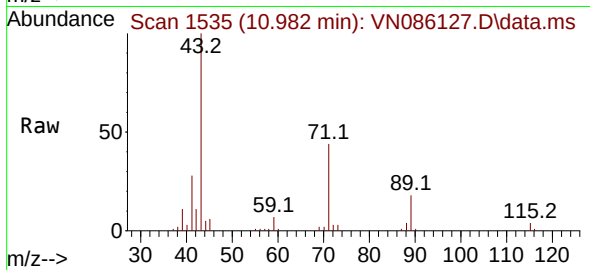




#56
Ethyl methacrylate
Concen: 0.505 ug/l
RT: 10.982 min Scan# 11
Delta R.T. 0.111 min
Lab File: VN086127.D
Acq: 26 Mar 2025 15:35

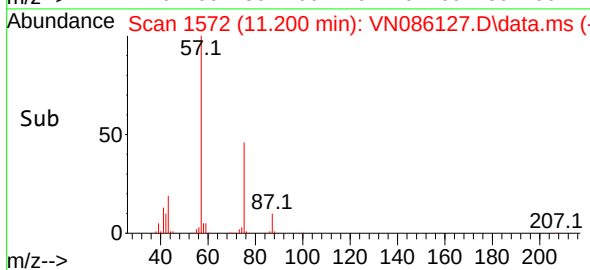
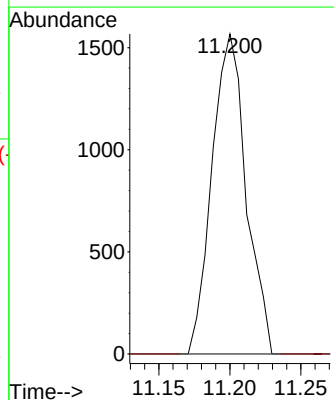
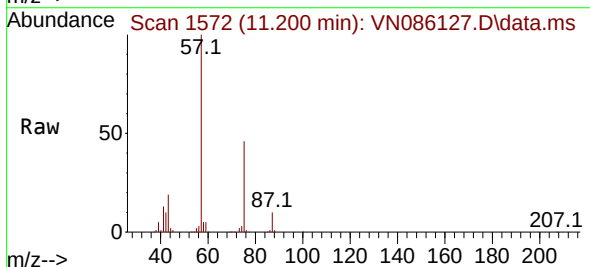
Instrument :
MSVOA_N
ClientSampleId :
TP-2

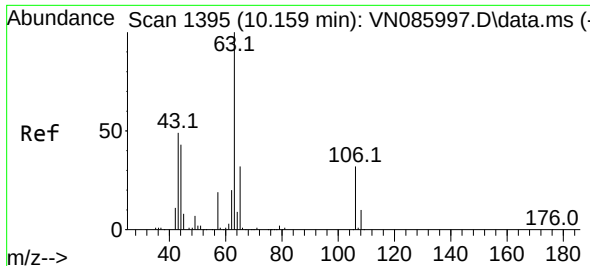
Tgt Ion: 69 Resp: 890
Ion Ratio Lower Upper
69 100
41 1773.6 41.6 62.4#
39 863.5 21.8 32.8#



#57
1,3-Dichloropropane
Concen: 0.692 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.041 min
Lab File: VN086127.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 76 Resp: 2617
Ion Ratio Lower Upper
76 100
78 0.0 25.8 38.6#

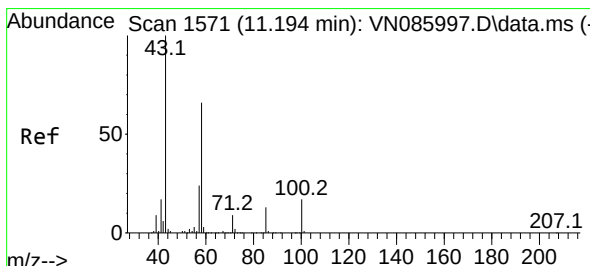
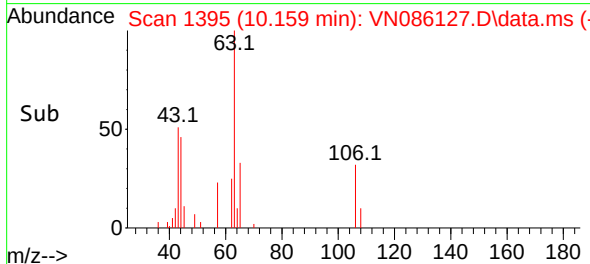
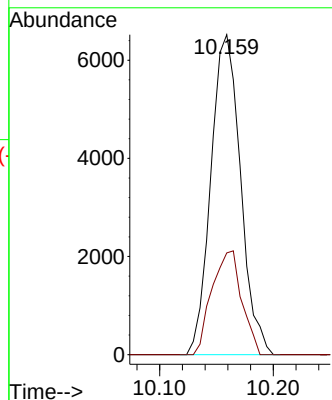
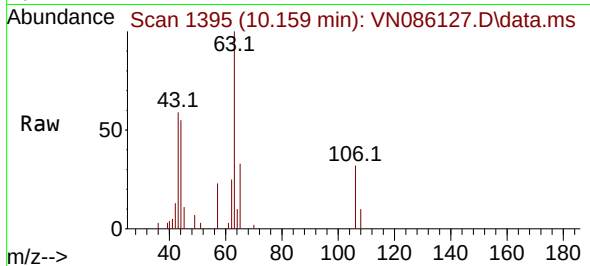




#58
2-Chloroethyl Vinyl ether
Concen: 14.224 ug/l
RT: 10.159 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN086127.D
Acq: 26 Mar 2025 15:35

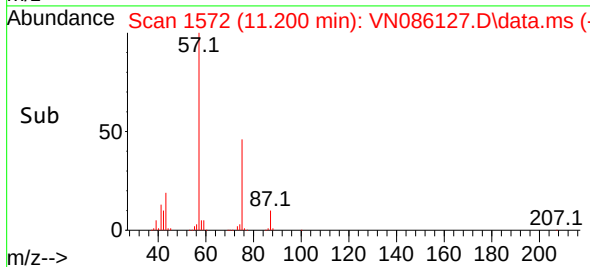
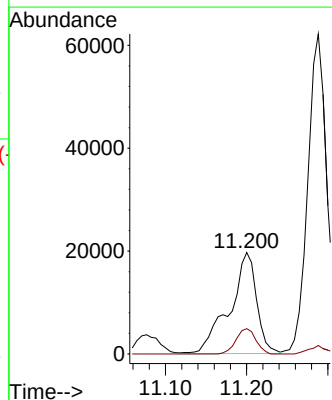
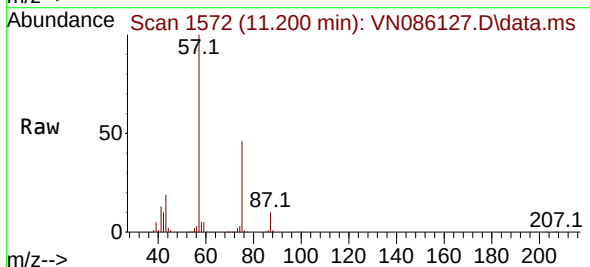
Instrument :
MSVOA_N
ClientSampleId :
TP-2

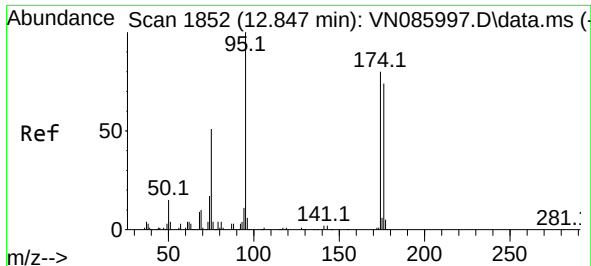
Tgt Ion: 63 Resp: 11825
Ion Ratio Lower Upper
63 100
106 32.7 25.0 37.6



#59
2-Hexanone
Concen: 25.500 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.006 min
Lab File: VN086127.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 43 Resp: 45354
Ion Ratio Lower Upper
43 100
58 18.3 32.4 97.2#

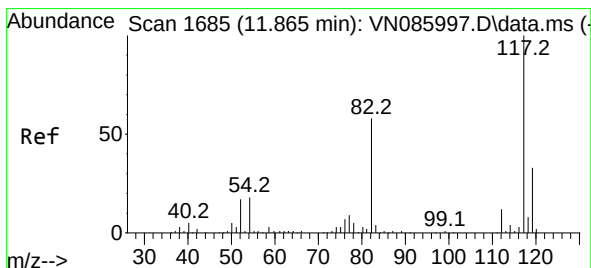
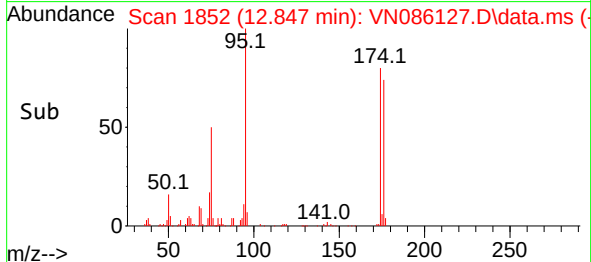
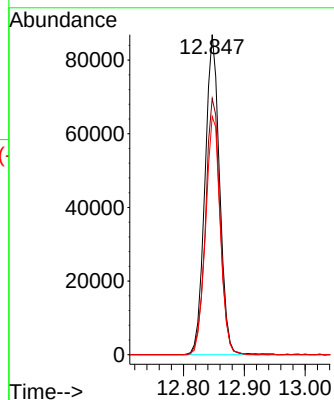
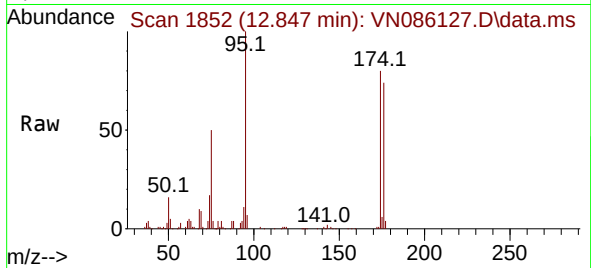




#62
4-Bromofluorobenzene
Concen: 48.656 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086127.D
Acq: 26 Mar 2025 15:35

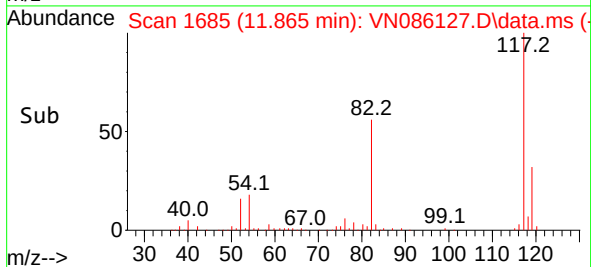
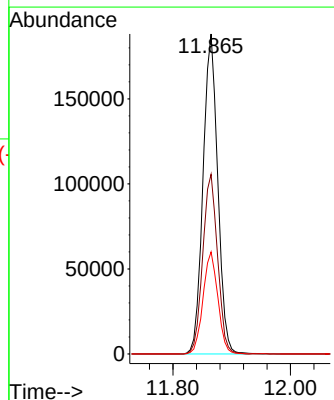
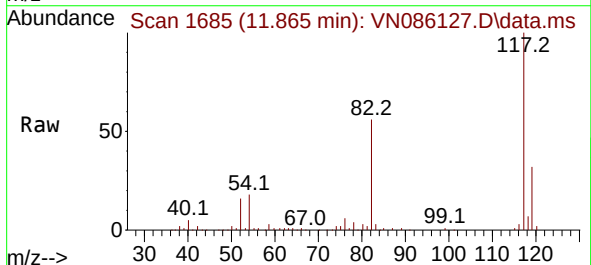
Instrument :
MSVOA_N
ClientSampleId :
TP-2

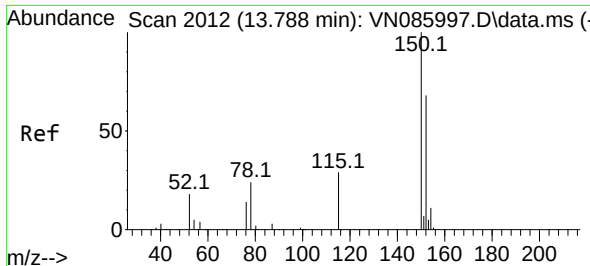
Tgt Ion: 95 Resp: 144828
Ion Ratio Lower Upper
95 100
174 79.8 0.0 156.8
176 74.8 0.0 152.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086127.D
Acq: 26 Mar 2025 15:35

Tgt Ion: 117 Resp: 326217
Ion Ratio Lower Upper
117 100
82 56.1 46.7 70.1
119 31.9 26.5 39.7

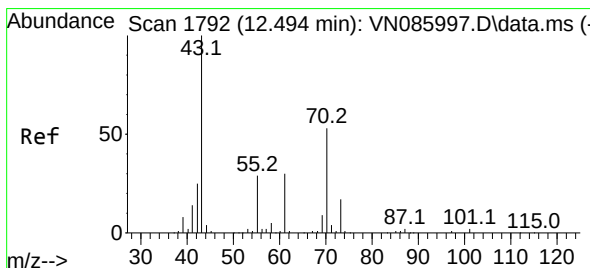
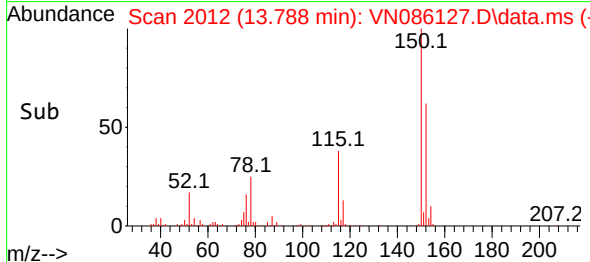
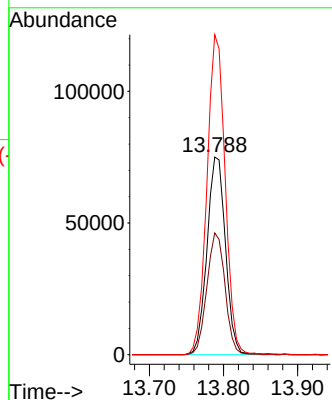
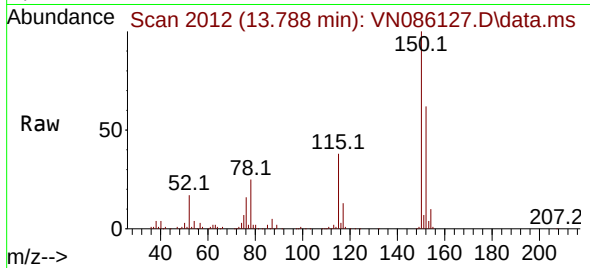




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.788 min Scan# 2012
 Delta R.T. -0.000 min
 Lab File: VN086127.D
 Acq: 26 Mar 2025 15:35

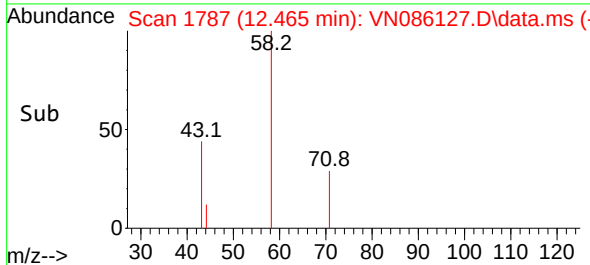
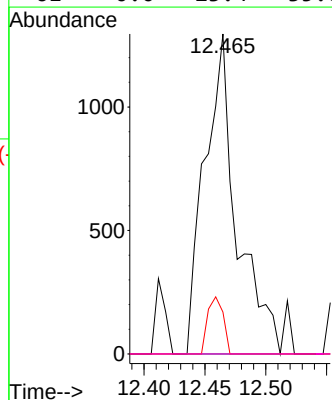
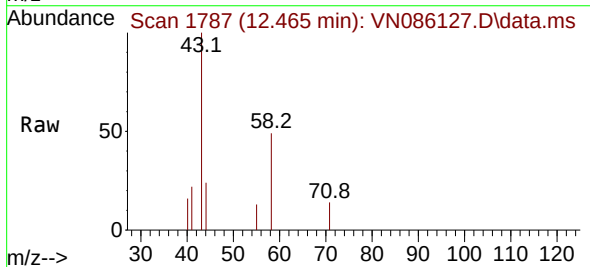
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-2

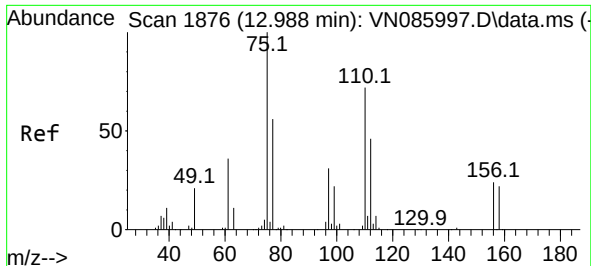
Tgt Ion:152 Resp: 130406
 Ion Ratio Lower Upper
 152 100
 115 60.3 31.1 93.2
 150 158.8 0.0 359.6



#74
 N-ethyl acetate
 Concen: 0.799 ug/l
 RT: 12.465 min Scan# 1787
 Delta R.T. -0.029 min
 Lab File: VN086127.D
 Acq: 26 Mar 2025 15:35

Tgt Ion: 43 Resp: 2382
 Ion Ratio Lower Upper
 43 100
 70 0.0 43.0 64.4#
 55 8.6 23.8 35.8#
 61 0.0 23.4 35.0#

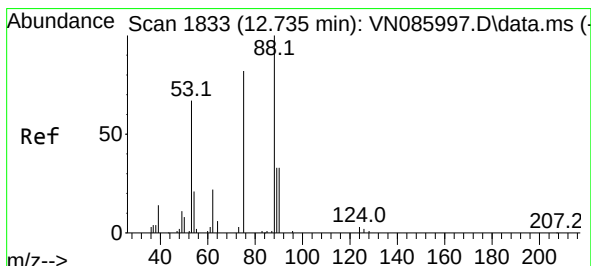
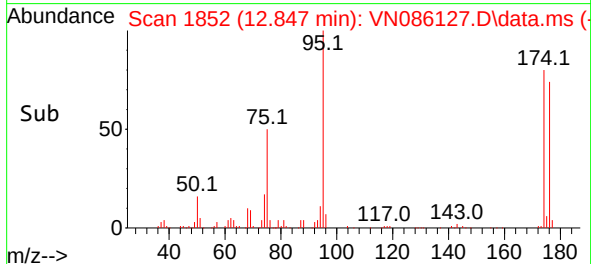
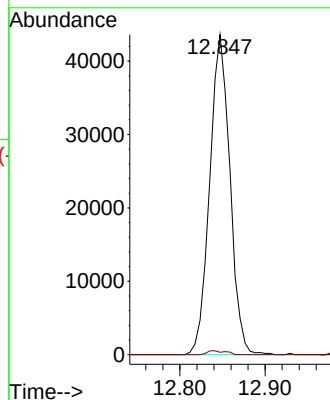
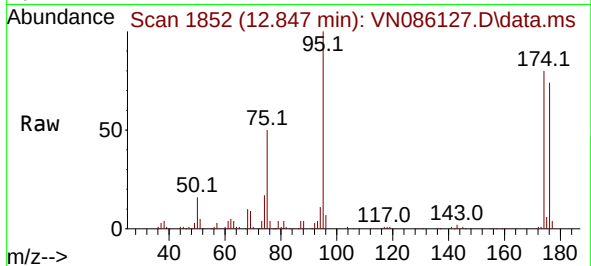




#76
1,2,3-Trichloropropane
Concen: 24.645 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN086127.D
Acq: 26 Mar 2025 15:35

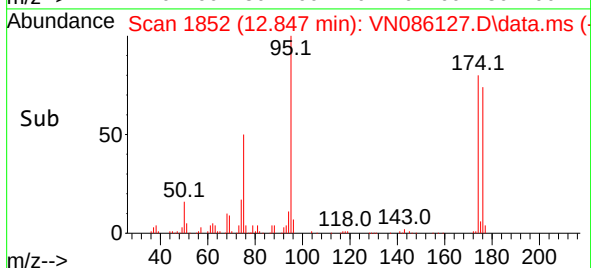
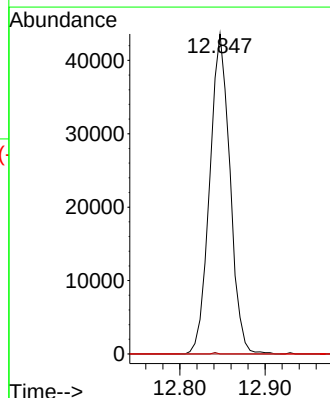
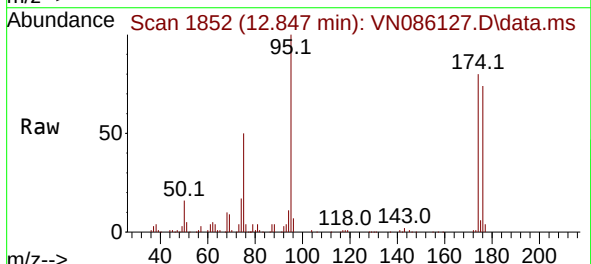
Instrument :
MSVOA_N
ClientSampleId :
TP-2

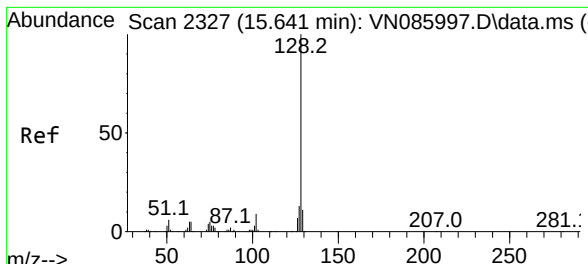
Tgt Ion: 75 Resp: 71951
Ion Ratio Lower Upper
75 100
77 1.1 83.7 251.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 65.156 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086127.D
Acq: 26 Mar 2025 15:35

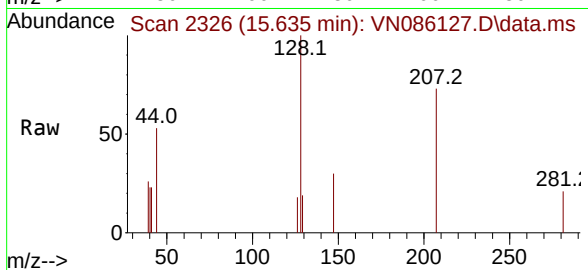
Tgt Ion: 75 Resp: 71951
Ion Ratio Lower Upper
75 100
53 0.1 66.0 99.0#
89 0.0 36.9 55.3#





#95
 Naphthalene
 Concen: 0.268 ug/l
 RT: 15.635 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: VN086127.D
 Acq: 26 Mar 2025 15:35

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-2



Tgt Ion:	128	Resp:	1735
Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.2	15.4#
129	3.2	9.0	13.6#

