

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032625\
 Data File : VN086135.D
 Acq On : 26 Mar 2025 18:48
 Operator : JC\MD
 Sample : Q1643-05
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 032025

Quant Time: Mar 27 01:44:22 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)

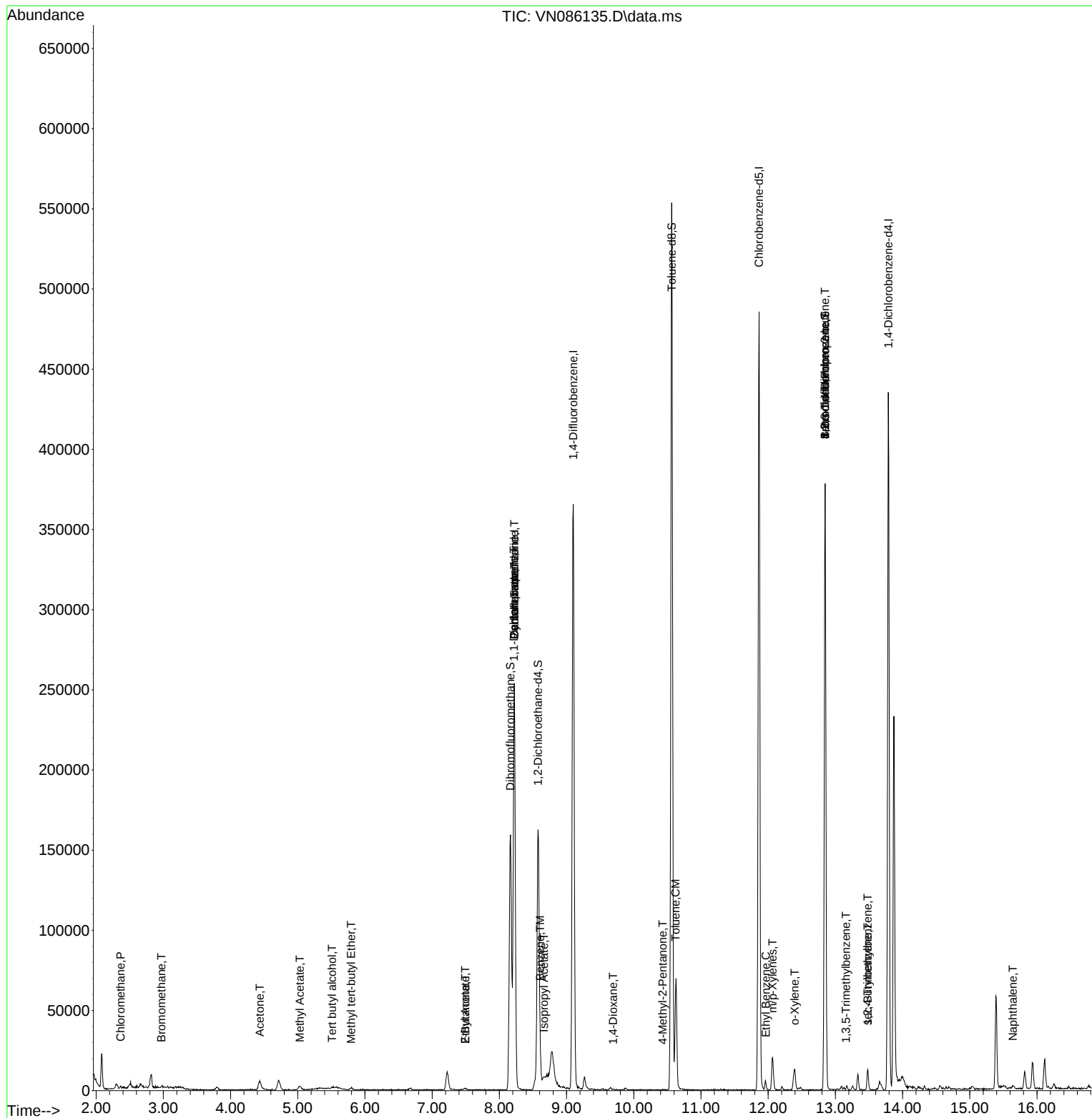
Internal Standards						
1) Pentafluorobenzene	8.224	168	180896	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	333332	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	285139	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	122959	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	132762	53.596	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 107.200%			
35) Dibromofluoromethane	8.165	113	114773	49.330	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.660%			
50) Toluene-d8	10.565	98	395512	46.839	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 93.680%			
62) 4-Bromofluorobenzene	12.847	95	134478	44.657	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 89.320%			
Target Compounds					Qvalue	
3) Chloromethane	2.365	50	676	0.322	ug/l	99
5) Bromomethane	2.971	94	522	0.357	ug/l #	44
11) Tert butyl alcohol	5.512	59	2127	6.065	ug/l #	73
16) Acetone	4.436	43	11153	14.738	ug/l	98
18) Methyl Acetate	5.030	43	4722	2.522	ug/l #	73
19) Methyl tert-butyl Ether	5.794	73	1969	0.324	ug/l #	56
25) 2-Butanone	7.494	43	1713	1.569	ug/l	95
31) Cyclohexane	8.224	56	3683	1.193	ug/l #	16
36) 1,1-Dichloropropene	8.218	75	13752	4.489	ug/l #	50
37) Ethyl Acetate	7.494	43	1713	0.663	ug/l #	64
38) Carbon Tetrachloride	8.224	117	18874	4.686	ug/l #	15
40) Benzene	8.606	78	16941	1.762	ug/l	99
43) Isopropyl Acetate	8.665	43	6909	1.234	ug/l #	50
49) 1,4-Dioxane	9.694	88	169	3.868	ug/l #	1
51) 4-Methyl-2-Pentanone	10.429	43	558	0.226	ug/l #	30
52) Toluene	10.624	92	30908	5.236	ug/l	98
67) Ethyl Benzene	11.965	91	4293	0.411	ug/l #	87
68) m/p-Xylenes	12.065	106	6960	1.697	ug/l	97
69) o-Xylene	12.394	106	3309	0.879	ug/l	95
71) Bromoform	12.847	173	904	0.446	ug/l #	1
76) 1,2,3-Trichloropropane	12.847	75	66479	24.149	ug/l #	1
80) 1,3,5-Trimethylbenzene	13.159	105	1469	0.207	ug/l	93
81) trans-1,4-Dichloro-2-b...	12.847	75	66479	63.847	ug/l #	16
84) 1,2,4-Trimethylbenzene	13.482	105	5524	0.773	ug/l	94
85) sec-Butylbenzene	13.482	105	5524	0.698	ug/l #	56
95) Naphthalene	15.641	128	2713	0.444	ug/l #	79

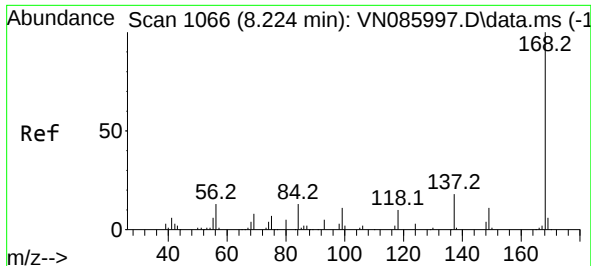
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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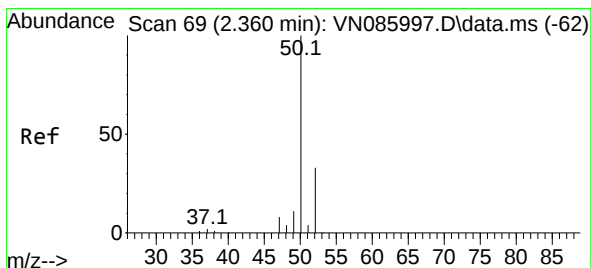
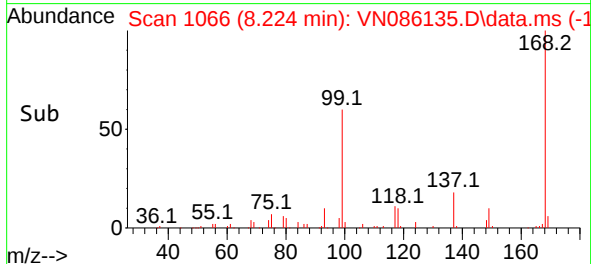
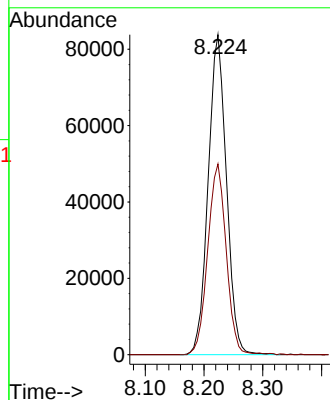
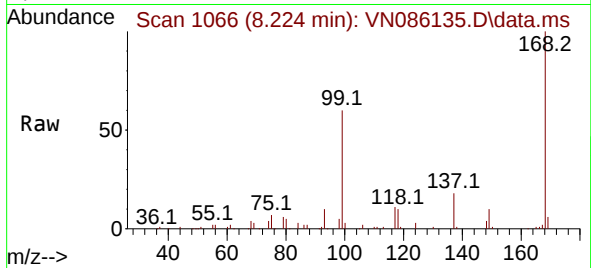




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN086135.D
Acq: 26 Mar 2025 18:48

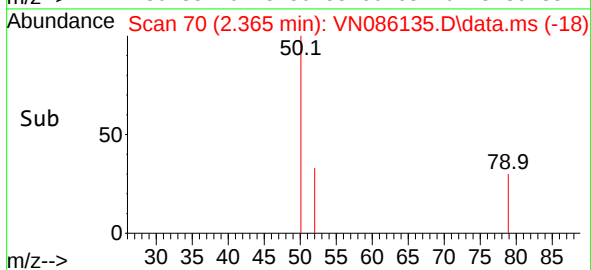
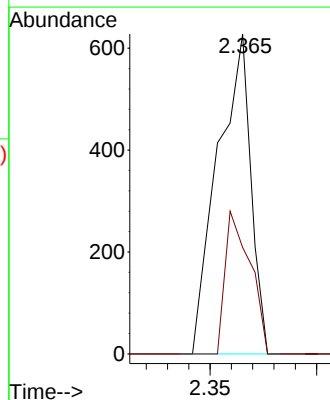
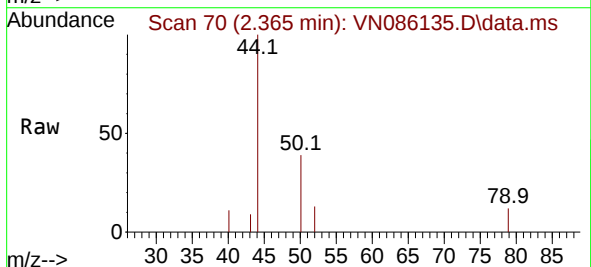
Instrument :
MSVOA_N
ClientSampleId :
032025

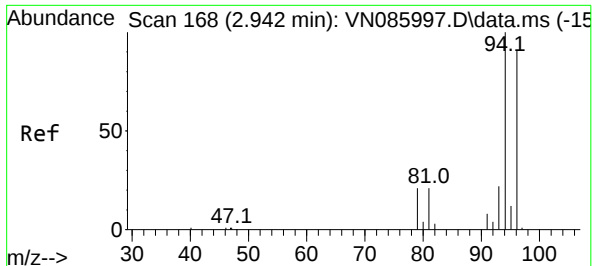
Tgt Ion:168 Resp: 180896
Ion Ratio Lower Upper
168 100
99 59.6 49.4 74.2



#3
Chloromethane
Concen: 0.322 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN086135.D
Acq: 26 Mar 2025 18:48

Tgt Ion: 50 Resp: 676
Ion Ratio Lower Upper
50 100
52 33.3 26.0 39.0

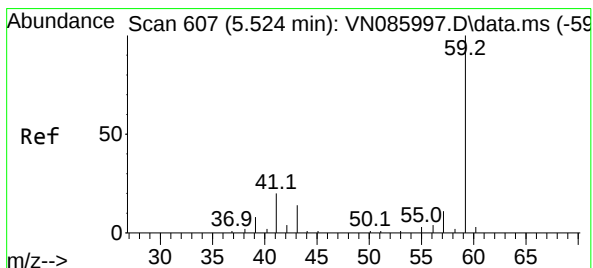
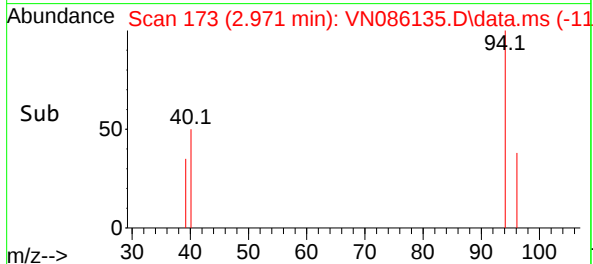
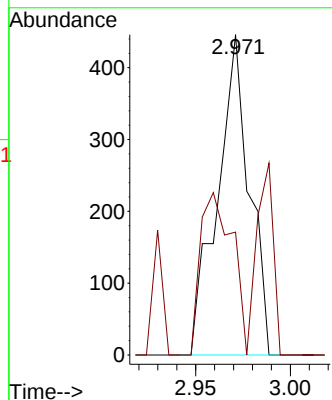
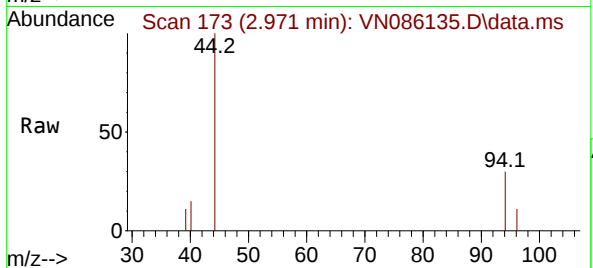




#5
Bromomethane
Concen: 0.357 ug/l
RT: 2.971 min Scan# 11
Delta R.T. 0.029 min
Lab File: VN086135.D
Acq: 26 Mar 2025 18:48

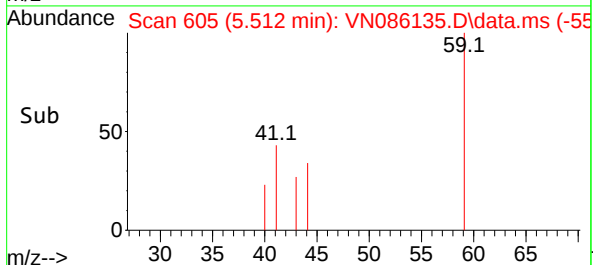
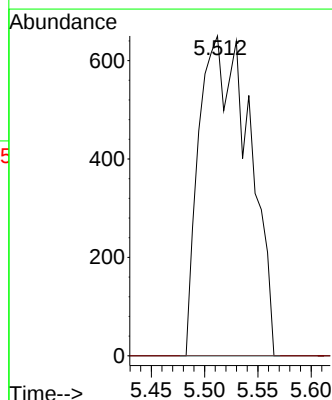
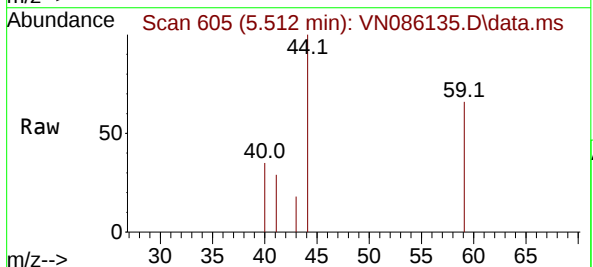
Instrument :
MSVOA_N
ClientSampleId :
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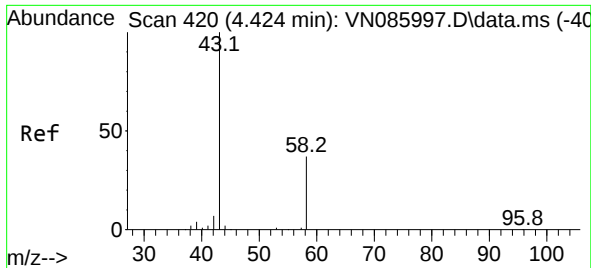
Tgt Ion: 94 Resp: 522
Ion Ratio Lower Upper
94 100
96 38.3 72.8 109.2#



#11
Tert butyl alcohol
Concen: 6.065 ug/l
RT: 5.512 min Scan# 605
Delta R.T. -0.012 min
Lab File: VN086135.D
Acq: 26 Mar 2025 18:48

Tgt Ion: 59 Resp: 2127
Ion Ratio Lower Upper
59 100
57 0.0 7.9 11.9#

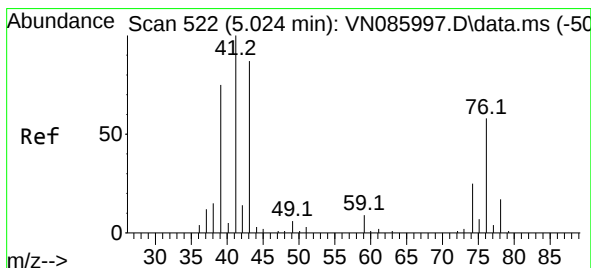
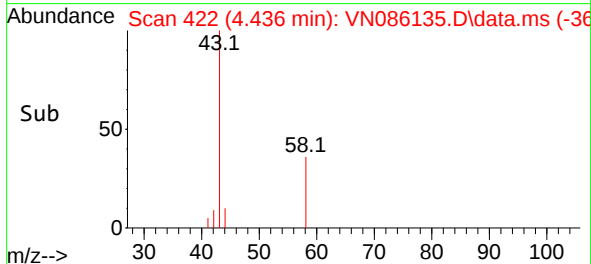
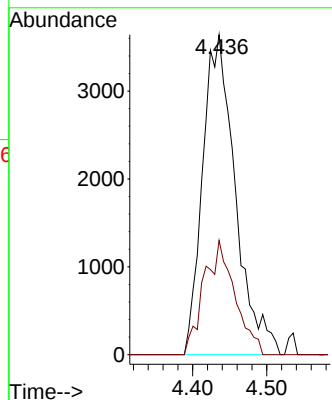
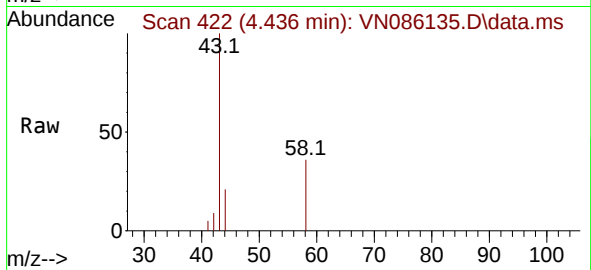




#16
Acetone
Concen: 14.738 ug/l
RT: 4.436 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN086135.D
Acq: 26 Mar 2025 18:48

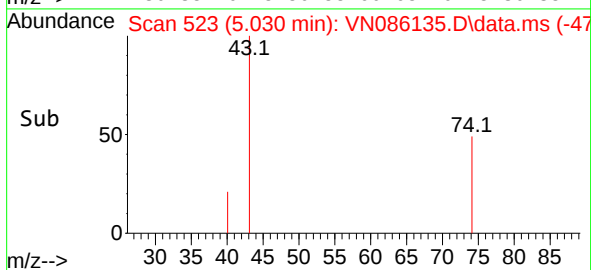
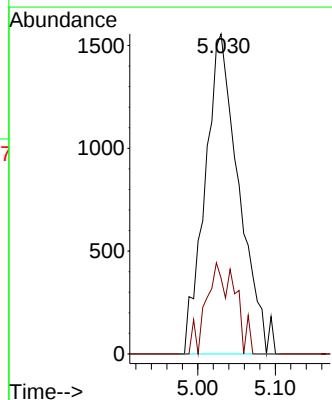
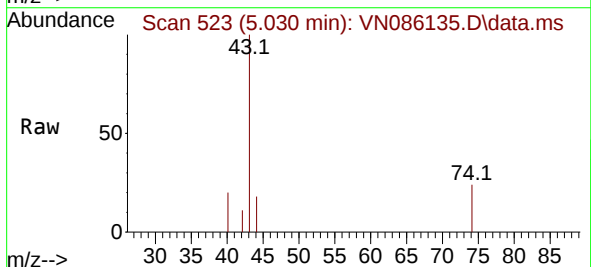
Instrument :
MSVOA_N
ClientSampleId :
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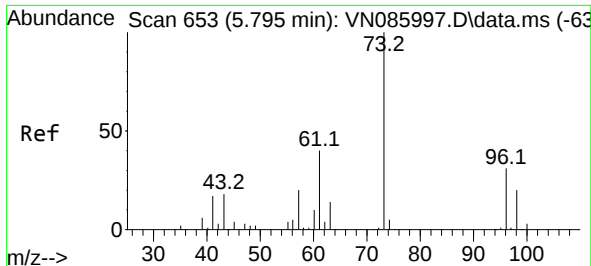
Tgt Ion: 43 Resp: 11153
Ion Ratio Lower Upper
43 100
58 35.7 29.4 44.2



#18
Methyl Acetate
Concen: 2.522 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.006 min
Lab File: VN086135.D
Acq: 26 Mar 2025 18:48

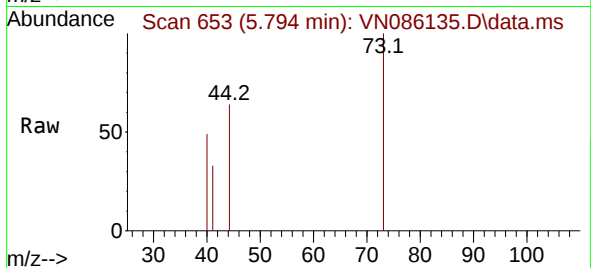
Tgt Ion: 43 Resp: 4722
Ion Ratio Lower Upper
43 100
74 15.5 23.9 35.9#



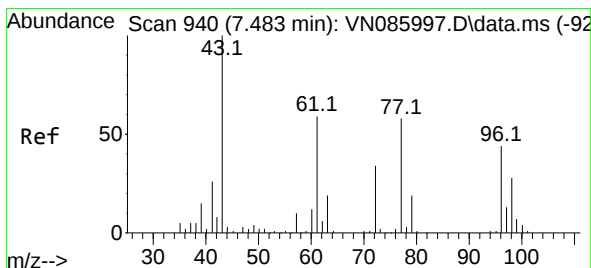
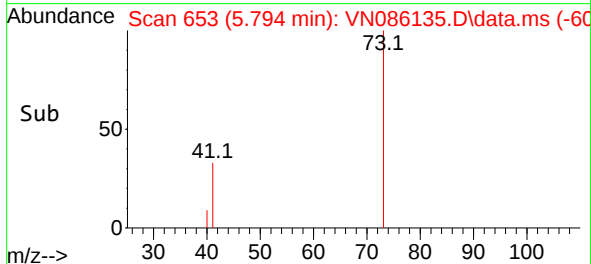
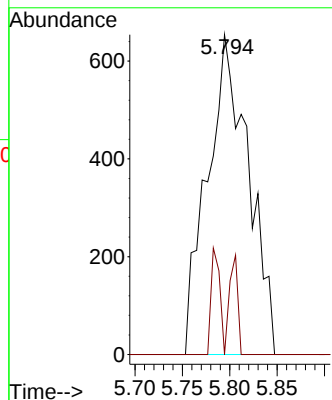


#19
Methyl tert-butyl Ether
Concen: 0.324 ug/l
RT: 5.794 min Scan# 619
Delta R.T. -0.000 min
Lab File: VN086135.D
Acq: 26 Mar 2025 18:48

Instrument :
MSVOA_N
ClientSampleId :
032025

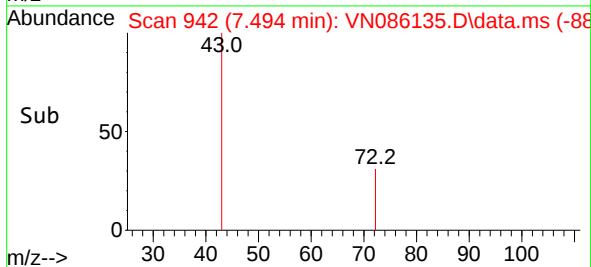
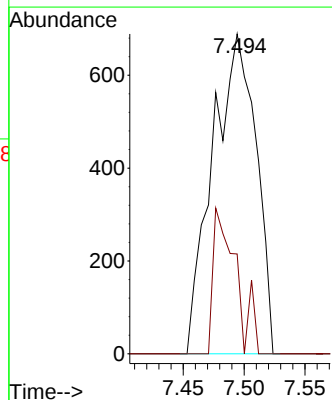
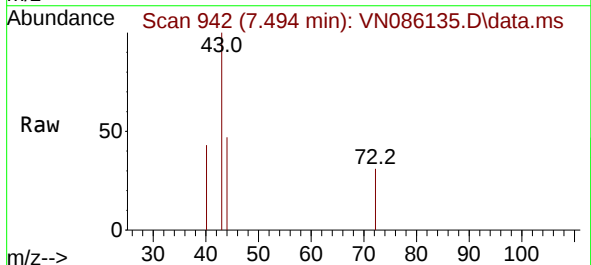


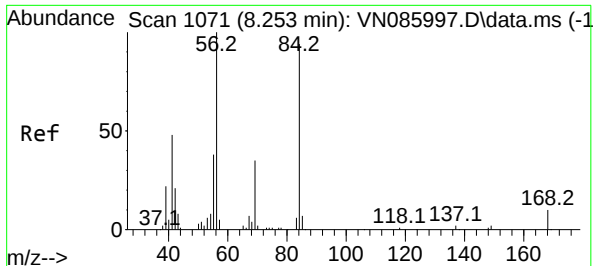
Tgt Ion: 73 Resp: 1969
Ion Ratio Lower Upper
73 100
57 0.0 16.1 24.1#



#25
2-Butanone
Concen: 1.569 ug/l
RT: 7.494 min Scan# 942
Delta R.T. 0.012 min
Lab File: VN086135.D
Acq: 26 Mar 2025 18:48

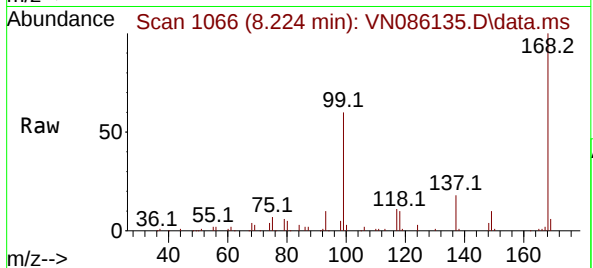
Tgt Ion: 43 Resp: 1713
Ion Ratio Lower Upper
43 100
72 31.2 27.4 41.0



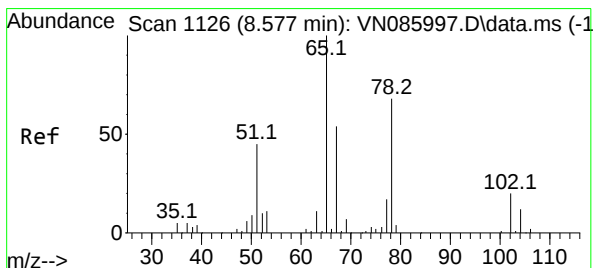
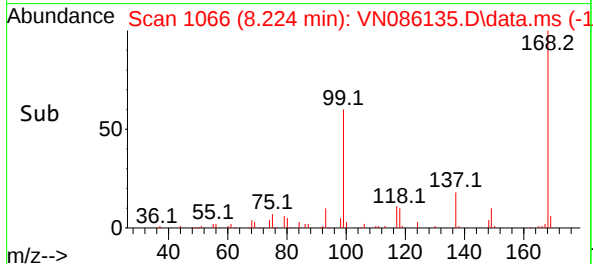
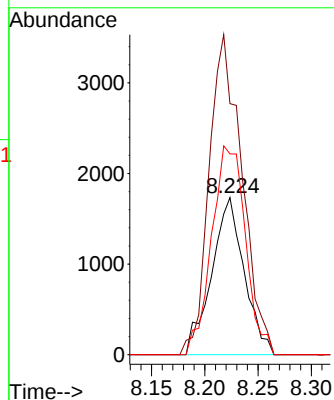


#31
Cyclohexane
Concen: 1.193 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.030 min
Lab File: VN086135.D
Acq: 26 Mar 2025 18:48

Instrument :
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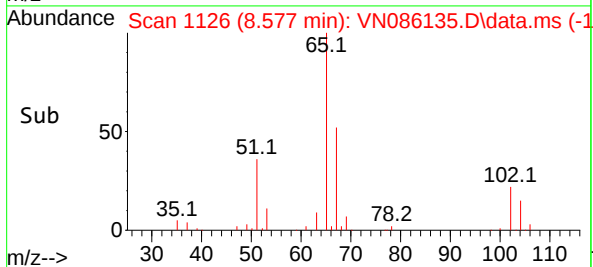
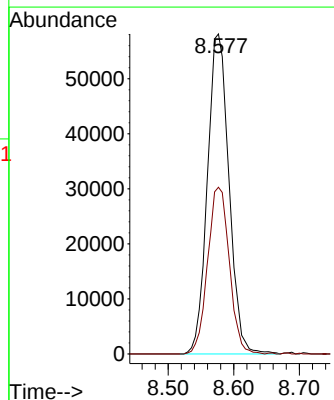
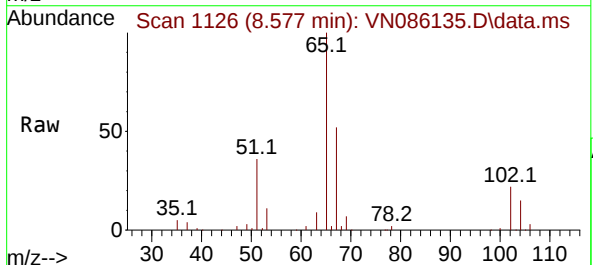


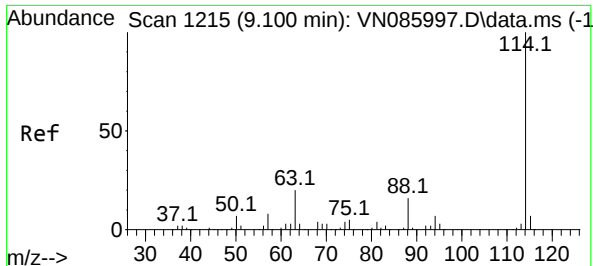
Tgt Ion: 56 Resp: 3683
Ion Ratio Lower Upper
56 100
69 159.7 28.0 42.0#
84 127.7 75.0 112.6#



#33
1,2-Dichloroethane-d4
Concen: 53.596 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN086135.D
Acq: 26 Mar 2025 18:48

Tgt Ion: 65 Resp: 132762
Ion Ratio Lower Upper
65 100
67 52.3 0.0 102.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086135.D

Acq: 26 Mar 2025 18:48

Instrument :

MSVOA_N

ClientSampleId :

032025

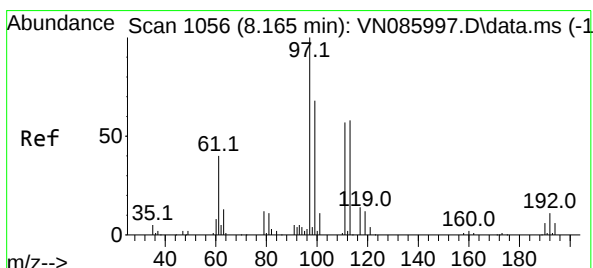
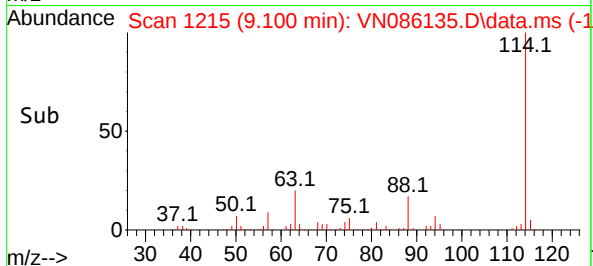
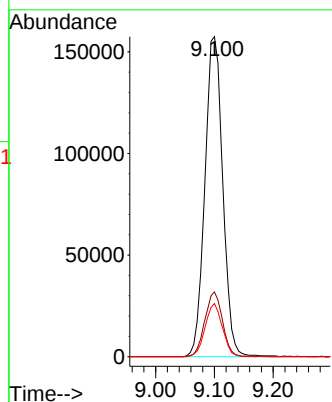
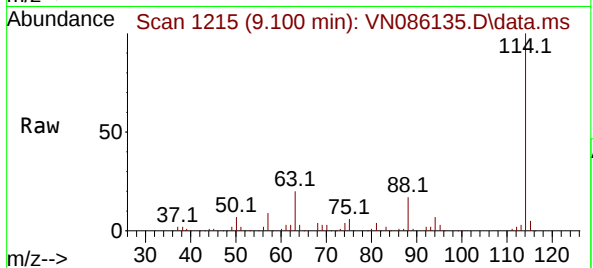
Tgt Ion:114 Resp: 333332

Ion Ratio Lower Upper

114 100

63 20.3 0.0 39.6

88 16.6 0.0 32.6



#35

Dibromofluoromethane

Concen: 49.330 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086135.D

Acq: 26 Mar 2025 18:48

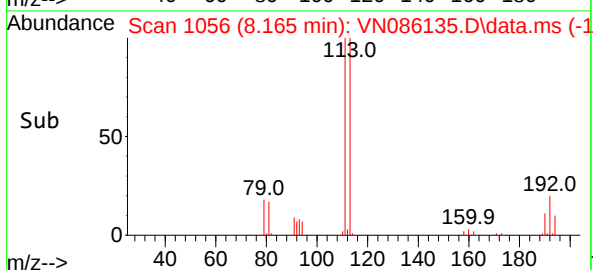
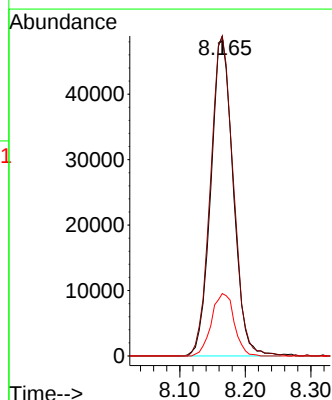
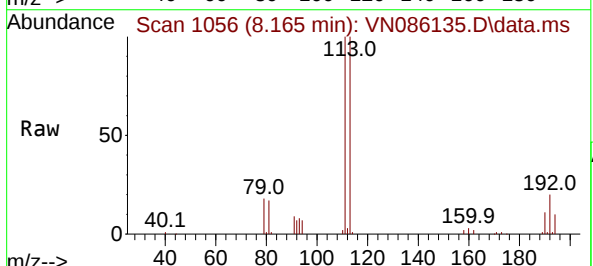
Tgt Ion:113 Resp: 114773

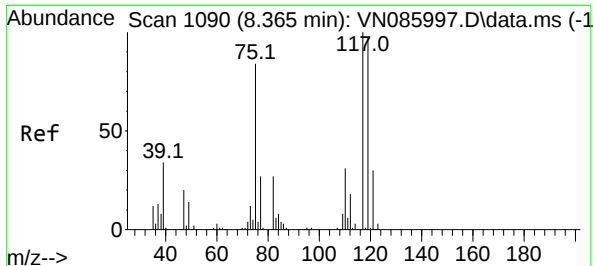
Ion Ratio Lower Upper

113 100

111 103.0 81.8 122.8

192 19.9 15.9 23.9

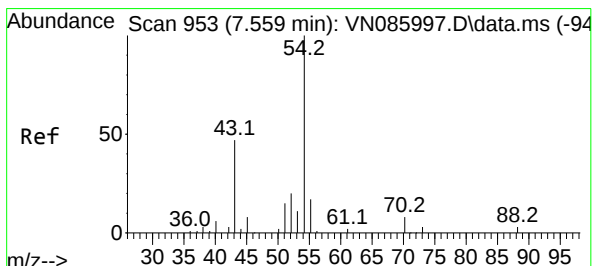
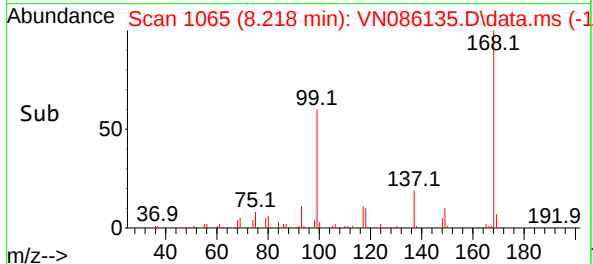
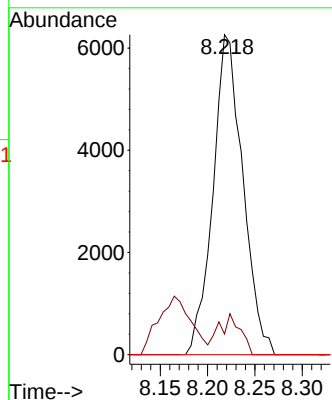
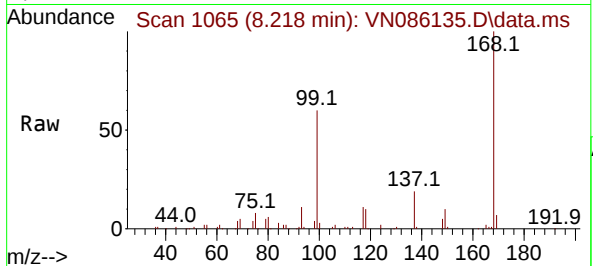




#36
1,1-Dichloropropene
Concen: 4.489 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.147 min
Lab File: VN086135.D
Acq: 26 Mar 2025 18:48

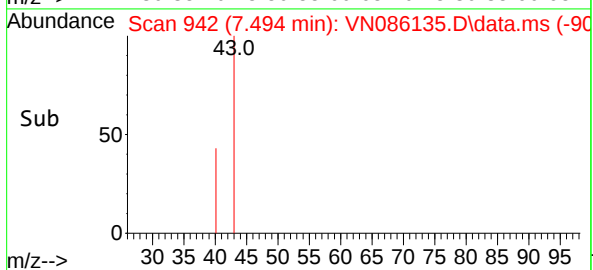
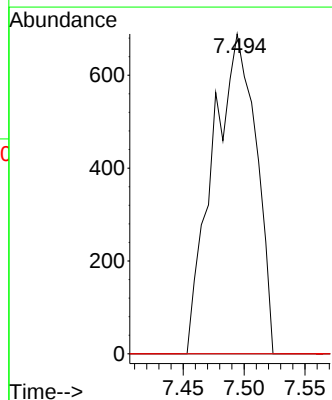
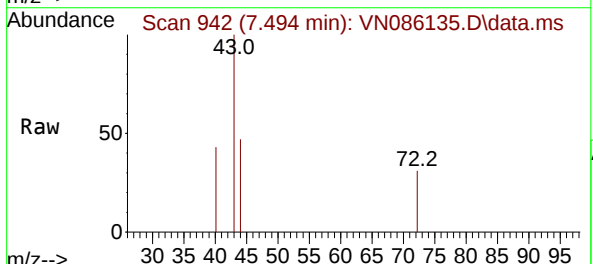
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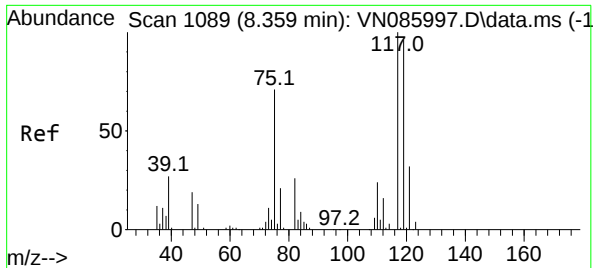
Tgt Ion: 75 Resp: 13752
Ion Ratio Lower Upper
75 100
110 9.2 17.8 53.3#
77 0.0 25.0 37.4#



#37
Ethyl Acetate
Concen: 0.663 ug/l
RT: 7.494 min Scan# 942
Delta R.T. -0.065 min
Lab File: VN086135.D
Acq: 26 Mar 2025 18:48

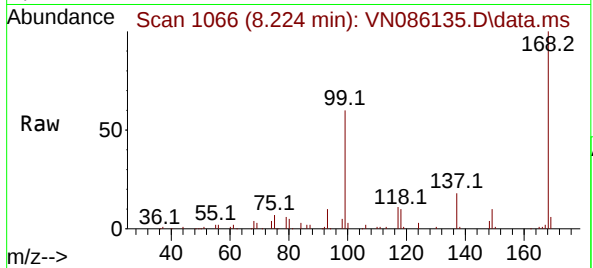
Tgt Ion: 43 Resp: 1713
Ion Ratio Lower Upper
43 100
61 0.0 13.0 19.4#
70 0.0 11.0 16.6#



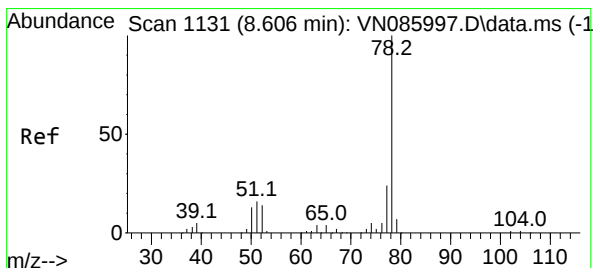
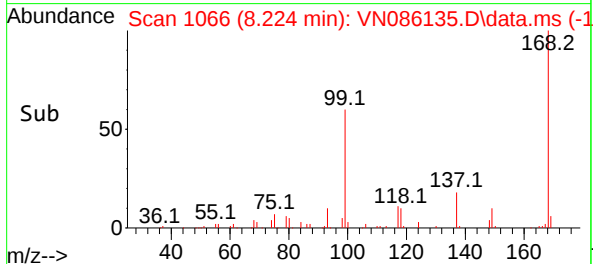
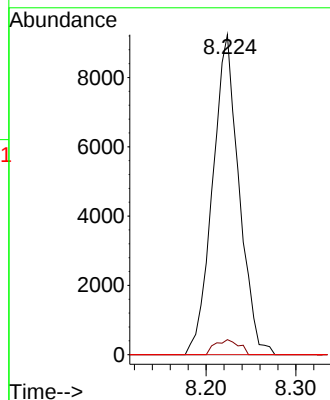


#38
Carbon Tetrachloride
Concen: 4.686 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.135 min
Lab File: VN086135.D
Acq: 26 Mar 2025 18:48

Instrument :
MSVOA_N
ClientSampleId :
032025

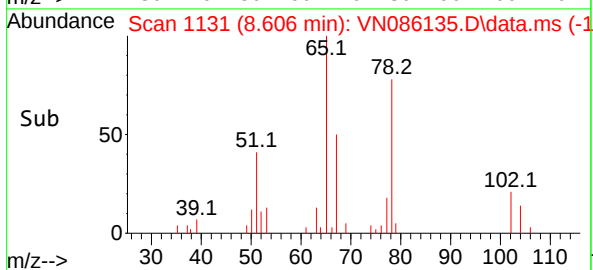
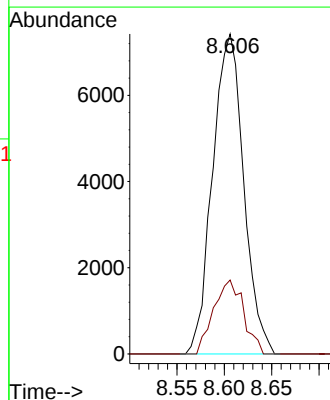
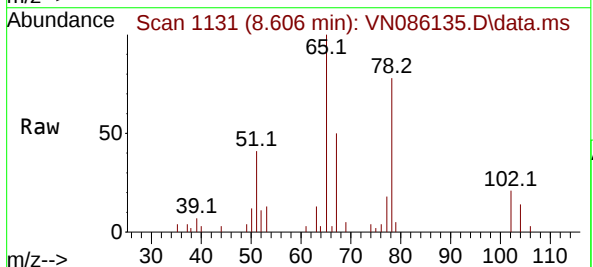


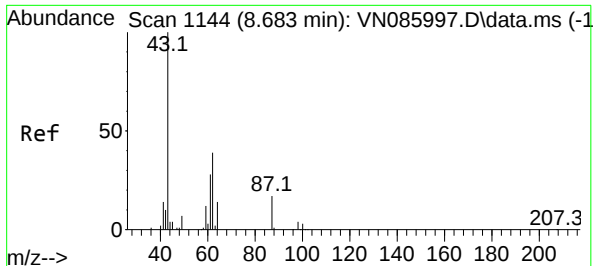
Tgt Ion:117 Resp: 18874
Ion Ratio Lower Upper
117 100
119 4.7 77.0 115.4#
121 0.0 25.6 38.4#



#40
Benzene
Concen: 1.762 ug/l
RT: 8.606 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VN086135.D
Acq: 26 Mar 2025 18:48

Tgt Ion: 78 Resp: 16941
Ion Ratio Lower Upper
78 100
77 23.1 18.9 28.3

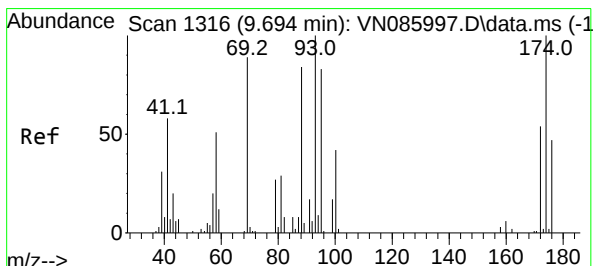
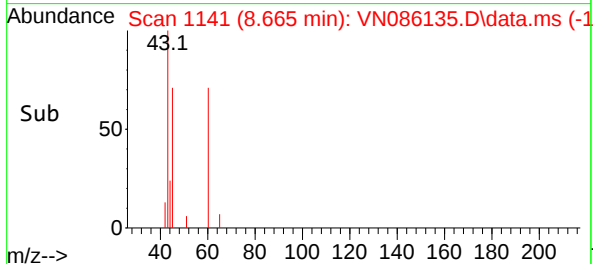
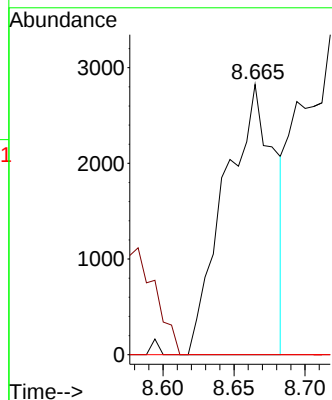
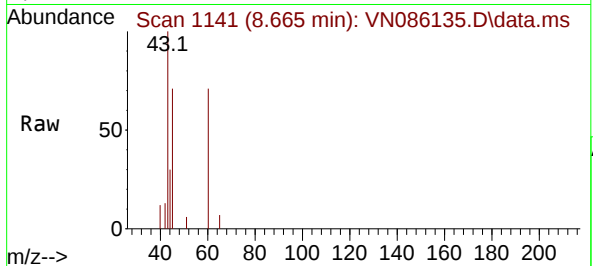




#43
Isopropyl Acetate
Concen: 1.234 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. -0.018 min
Lab File: VN086135.D
Acq: 26 Mar 2025 18:48

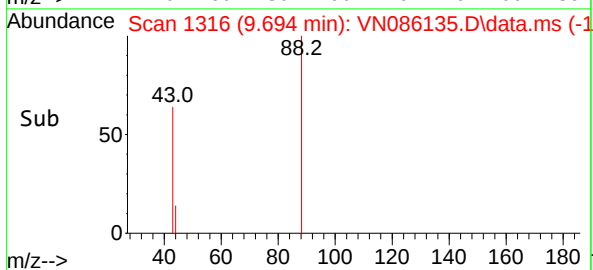
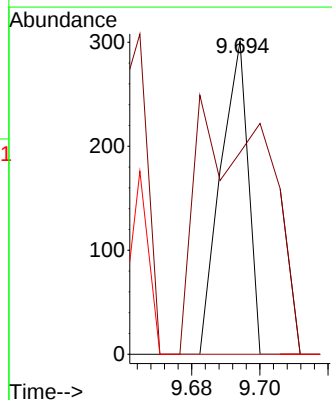
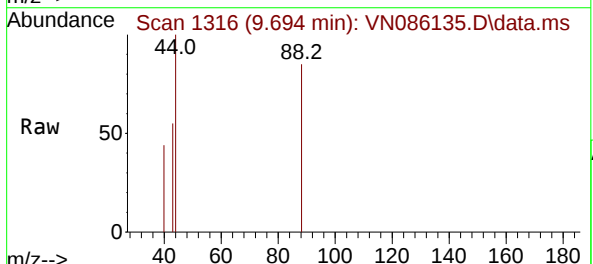
Instrument :
MSVOA_N
ClientSampleId :
032025

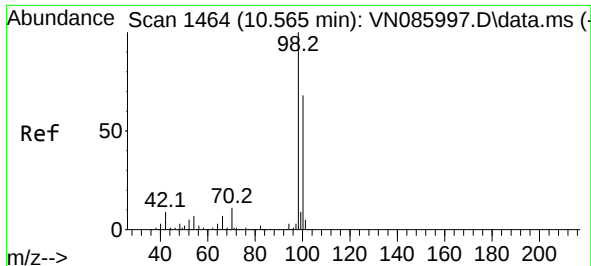
Tgt Ion: 43 Resp: 6909
Ion Ratio Lower Upper
43 100
61 0.0 25.0 37.6#
87 0.0 13.0 19.4#



#49
1,4-Dioxane
Concen: 3.868 ug/l
RT: 9.694 min Scan# 1316
Delta R.T. -0.000 min
Lab File: VN086135.D
Acq: 26 Mar 2025 18:48

Tgt Ion: 88 Resp: 169
Ion Ratio Lower Upper
88 100
43 207.1 21.7 32.5#
58 0.0 50.4 75.6#

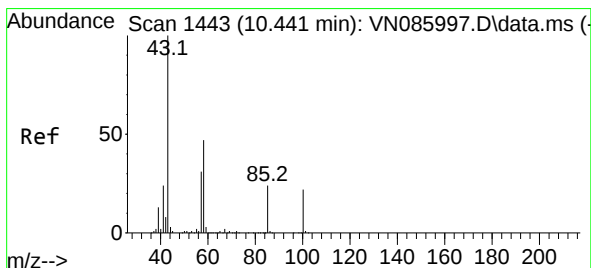
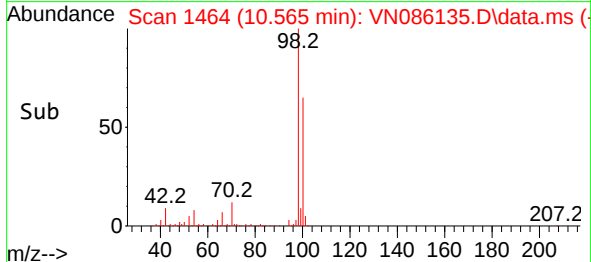
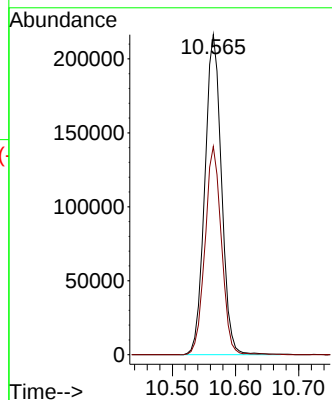
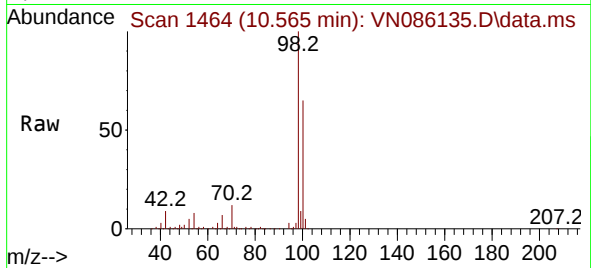




#50
Toluene-d8
Concen: 46.839 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086135.D
Acq: 26 Mar 2025 18:48

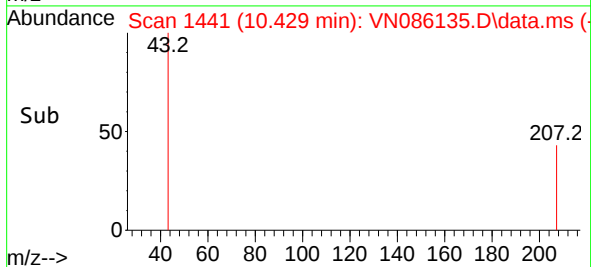
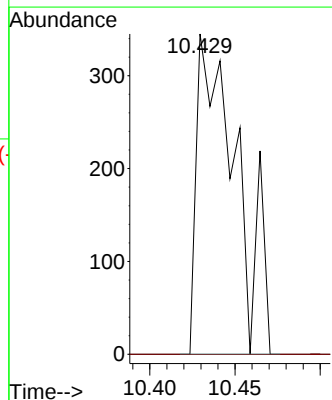
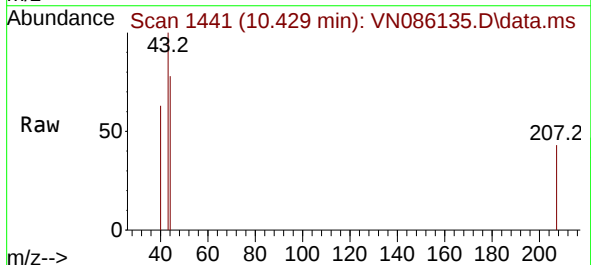
Instrument :
MSVOA_N
ClientSampleId :
032025

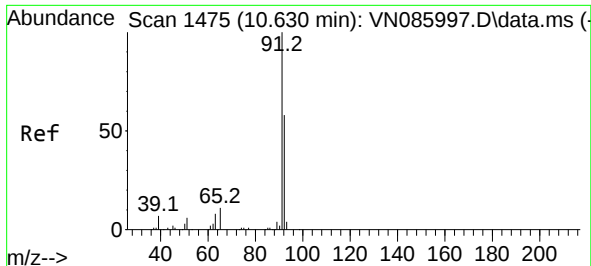
Tgt Ion: 98 Resp: 395512
Ion Ratio Lower Upper
98 100
100 64.1 53.1 79.7



#51
4-Methyl-2-Pentanone
Concen: 0.226 ug/l
RT: 10.429 min Scan# 1441
Delta R.T. -0.012 min
Lab File: VN086135.D
Acq: 26 Mar 2025 18:48

Tgt Ion: 43 Resp: 558
Ion Ratio Lower Upper
43 100
58 0.0 37.4 56.0#

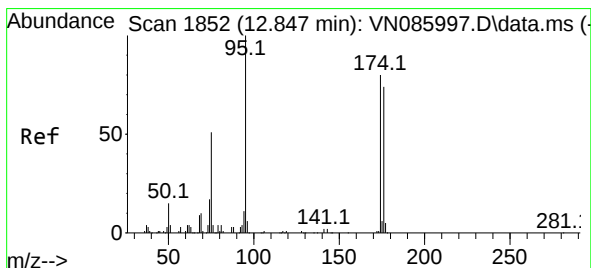
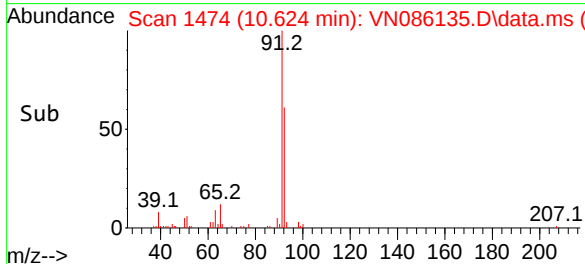
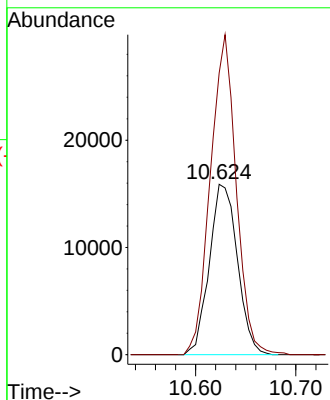
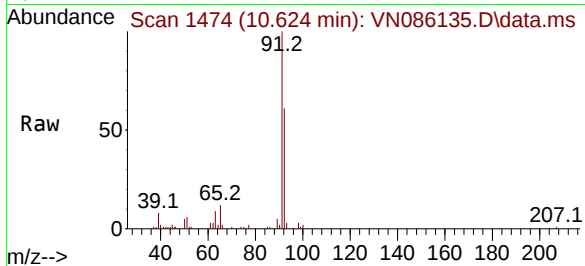




#52
Toluene
Concen: 5.236 ug/l
RT: 10.624 min Scan# 1474
Delta R.T. -0.006 min
Lab File: VN086135.D
Acq: 26 Mar 2025 18:48

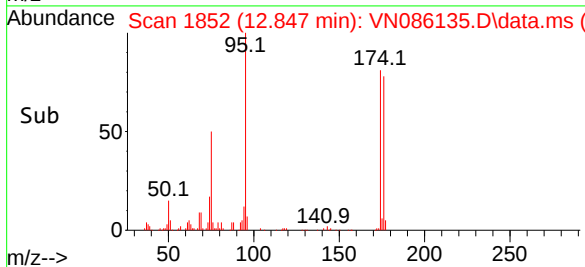
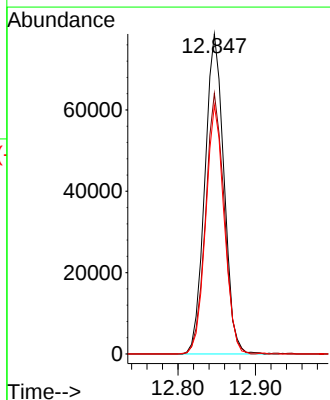
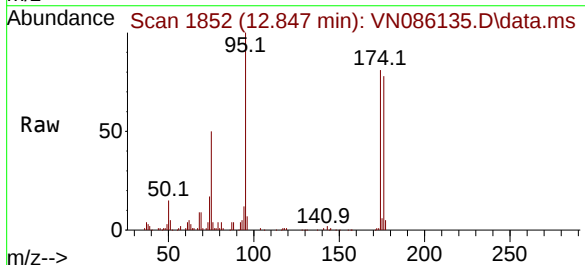
Instrument :
MSVOA_N
ClientSampleId :
032025

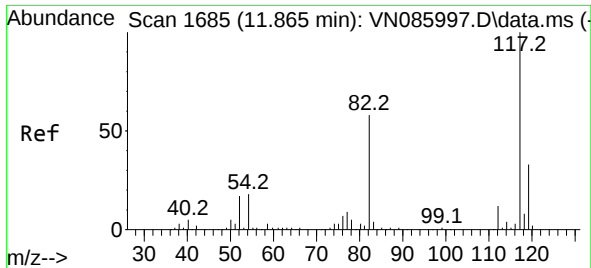
Tgt Ion: 92 Resp: 30908
Ion Ratio Lower Upper
92 100
91 173.2 136.2 204.4



#62
4-Bromofluorobenzene
Concen: 44.657 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086135.D
Acq: 26 Mar 2025 18:48

Tgt Ion: 95 Resp: 134478
Ion Ratio Lower Upper
95 100
174 79.9 0.0 156.8
176 75.2 0.0 152.2

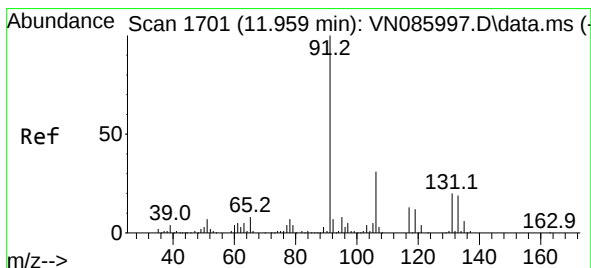
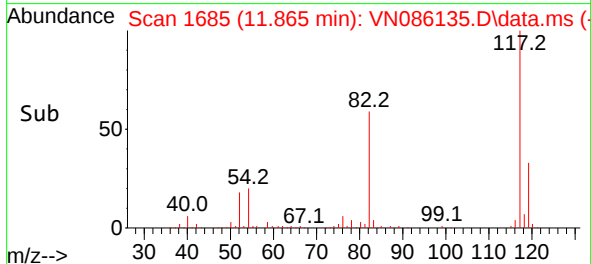
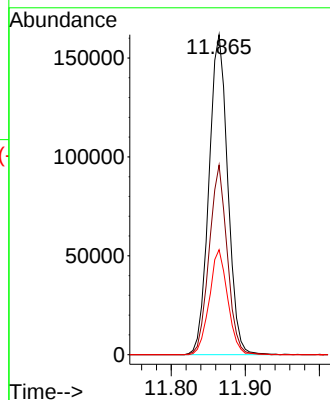
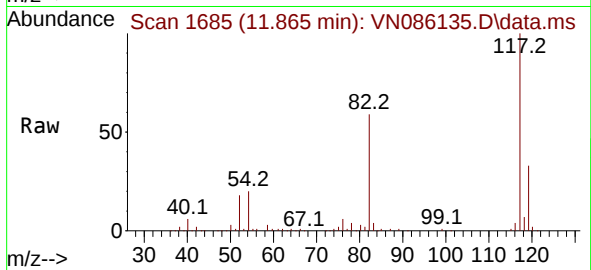




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN086135.D
Acq: 26 Mar 2025 18:48

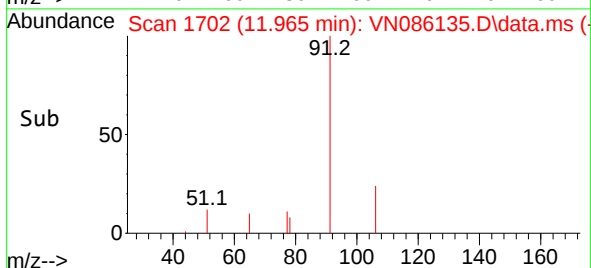
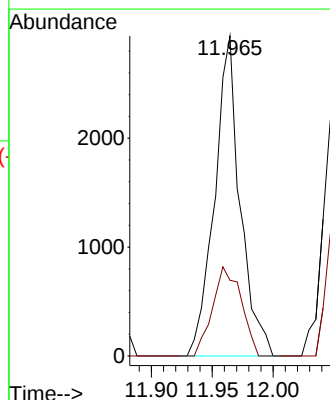
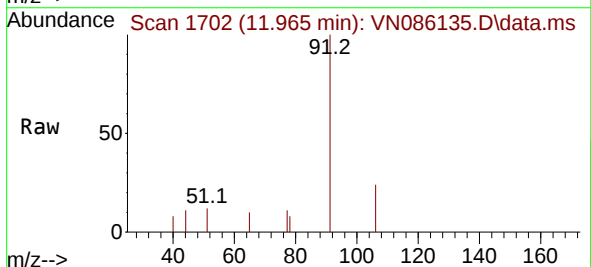
Instrument :
MSVOA_N
ClientSampleId :
032025

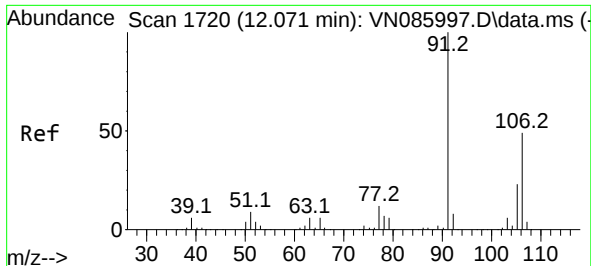
Tgt Ion:117 Resp: 285139
Ion Ratio Lower Upper
117 100
82 59.3 46.7 70.1
119 32.8 26.5 39.7



#67
Ethyl Benzene
Concen: 0.411 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. 0.006 min
Lab File: VN086135.D
Acq: 26 Mar 2025 18:48

Tgt Ion: 91 Resp: 4293
Ion Ratio Lower Upper
91 100
106 23.6 24.5 36.7#

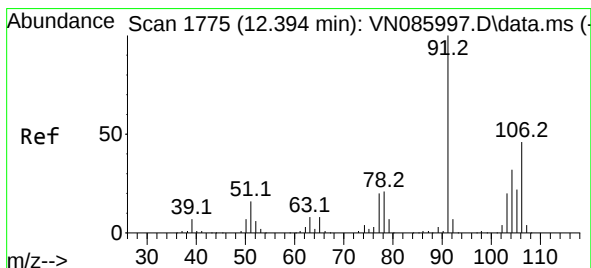
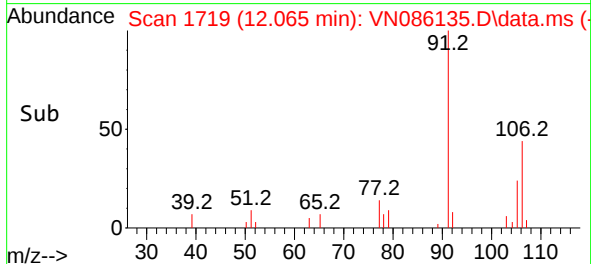
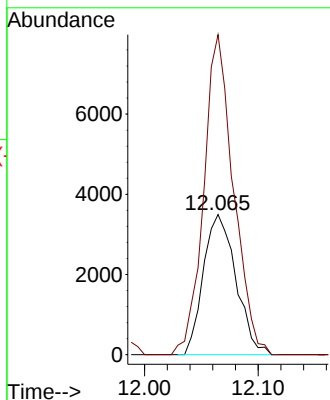
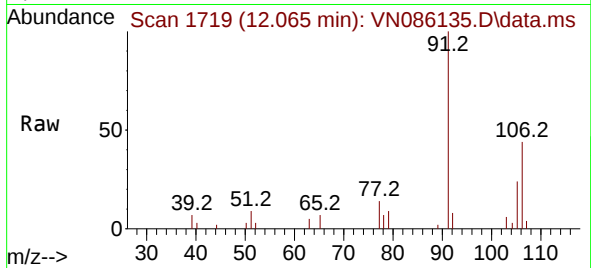




#68
m/p-Xylenes
Concen: 1.697 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. -0.006 min
Lab File: VN086135.D
Acq: 26 Mar 2025 18:48

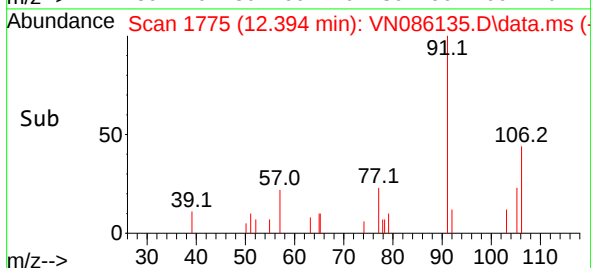
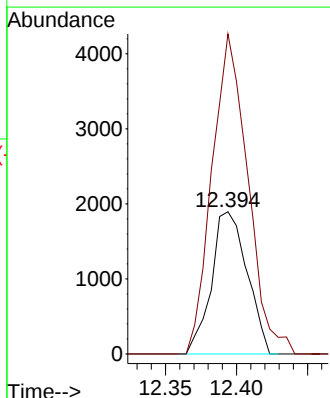
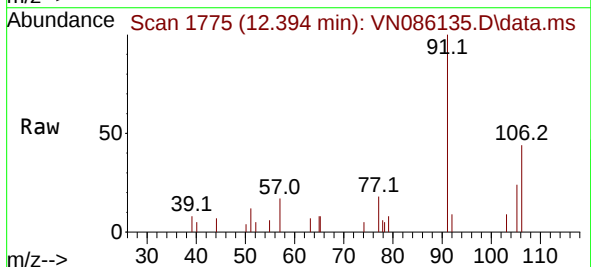
Instrument :
MSVOA_N
ClientSampleId :
032025

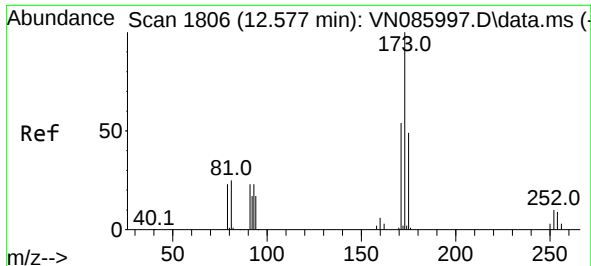
Tgt Ion:106 Resp: 6960
Ion Ratio Lower Upper
106 100
91 209.1 163.9 245.9



#69
o-Xylene
Concen: 0.879 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. -0.000 min
Lab File: VN086135.D
Acq: 26 Mar 2025 18:48

Tgt Ion:106 Resp: 3309
Ion Ratio Lower Upper
106 100
91 226.4 109.1 327.2

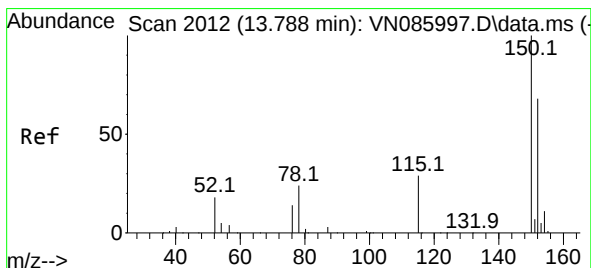
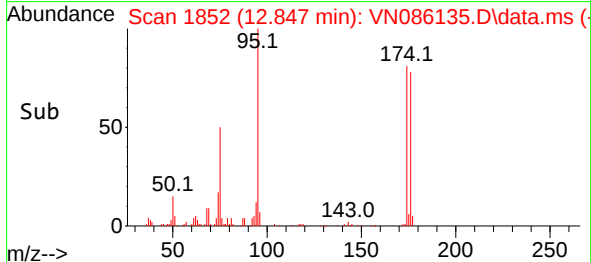
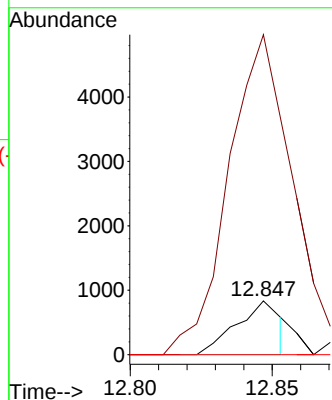
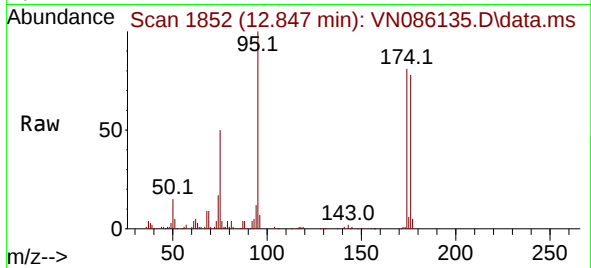




#71
Bromoform
Concen: 0.446 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.270 min
Lab File: VN086135.D
Acq: 26 Mar 2025 18:48

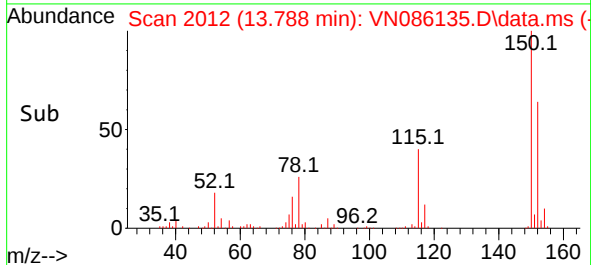
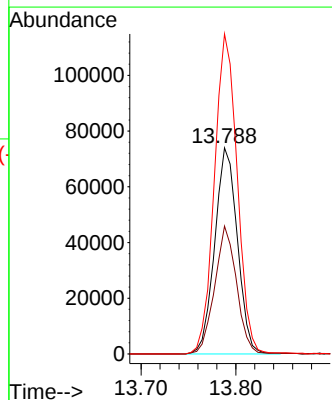
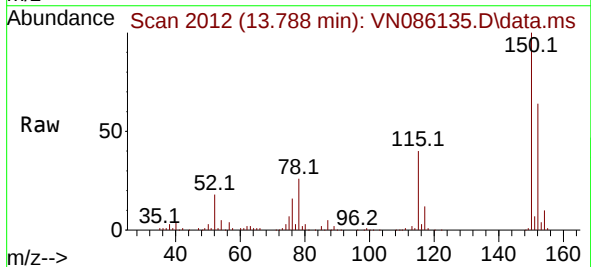
Instrument :
MSVOA_N
ClientSampleId :
032025

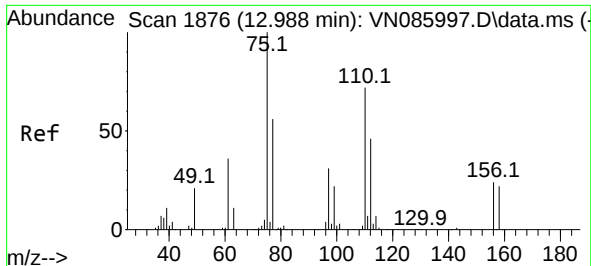
Tgt Ion:173 Resp: 904
Ion Ratio Lower Upper
173 100
175 701.0 24.3 73.0#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN086135.D
Acq: 26 Mar 2025 18:48

Tgt Ion:152 Resp: 122959
Ion Ratio Lower Upper
152 100
115 60.2 31.1 93.2
150 156.6 0.0 359.6

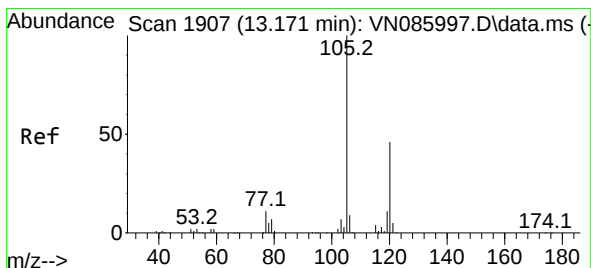
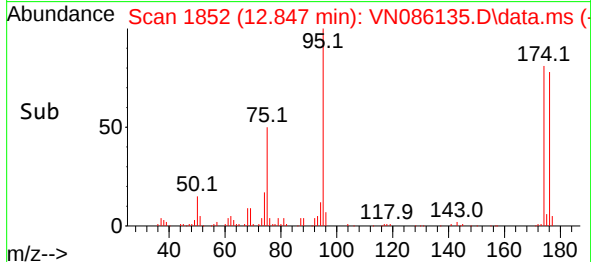
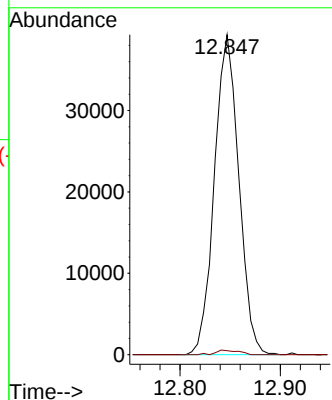
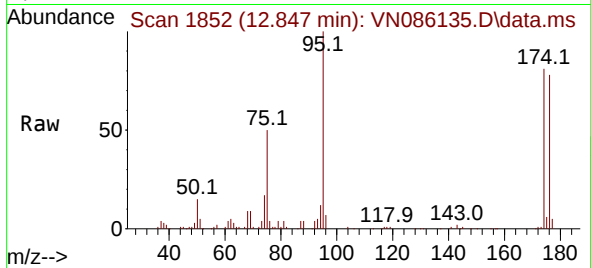




#76
 1,2,3-Trichloropropane
 Concen: 24.149 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. -0.141 min
 Lab File: VN086135.D
 Acq: 26 Mar 2025 18:48

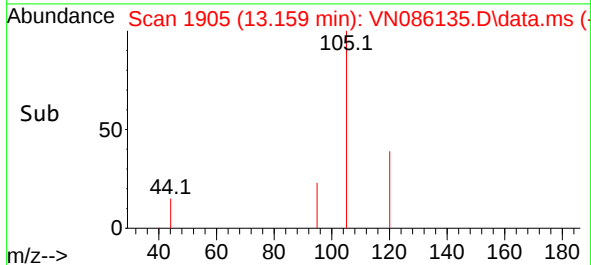
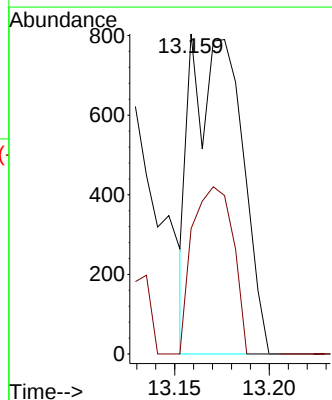
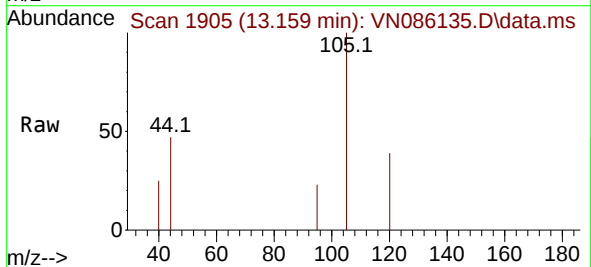
Instrument :
 MSVOA_N
 ClientSampleId :
 032025

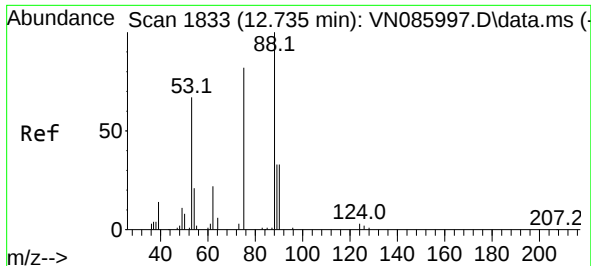
Tgt Ion: 75 Resp: 66479
 Ion Ratio Lower Upper
 75 100
 77 1.3 83.7 251.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.207 ug/l
 RT: 13.159 min Scan# 1905
 Delta R.T. -0.012 min
 Lab File: VN086135.D
 Acq: 26 Mar 2025 18:48

Tgt Ion: 105 Resp: 1469
 Ion Ratio Lower Upper
 105 100
 120 42.8 23.7 71.1

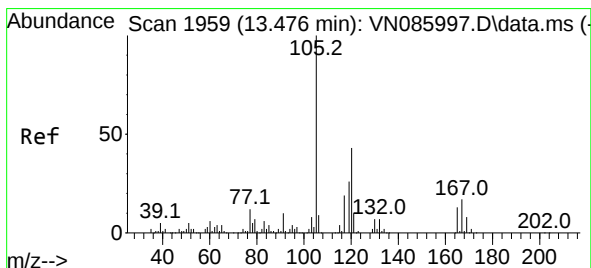
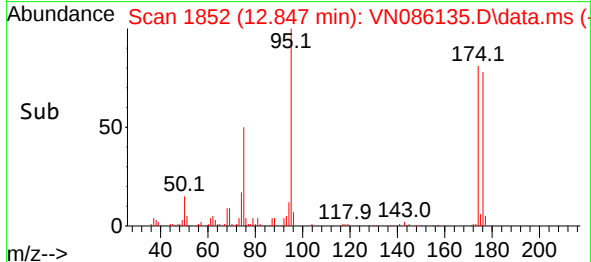
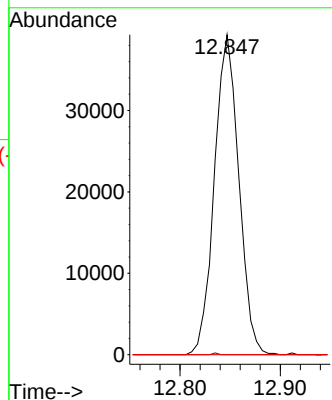
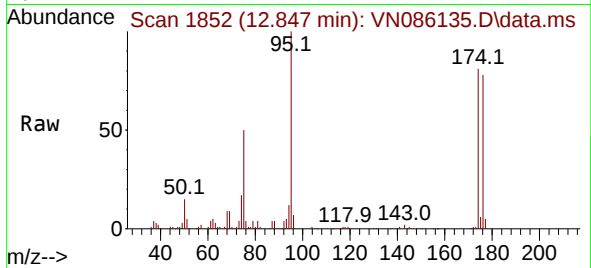




#81
trans-1,4-Dichloro-2-butene
Concen: 63.847 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN086135.D
Acq: 26 Mar 2025 18:48

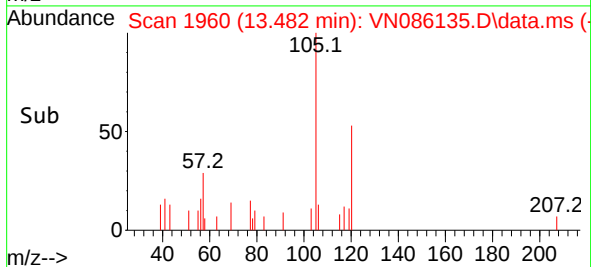
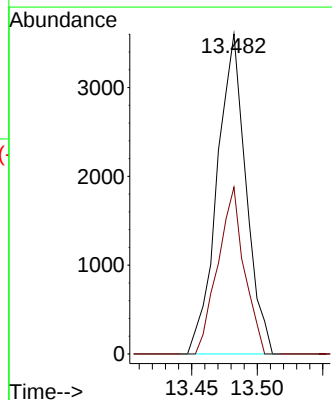
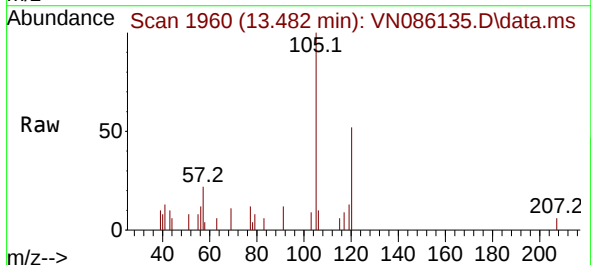
Instrument :
MSVOA_N
ClientSampleId :
032025

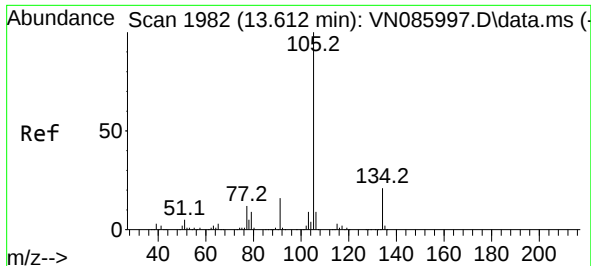
Tgt Ion: 75 Resp: 66479
Ion Ratio Lower Upper
75 100
53 0.1 66.0 99.0#
89 0.0 36.9 55.3#



#84
1,2,4-Trimethylbenzene
Concen: 0.773 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.006 min
Lab File: VN086135.D
Acq: 26 Mar 2025 18:48

Tgt Ion: 105 Resp: 5524
Ion Ratio Lower Upper
105 100
120 47.5 21.9 65.8

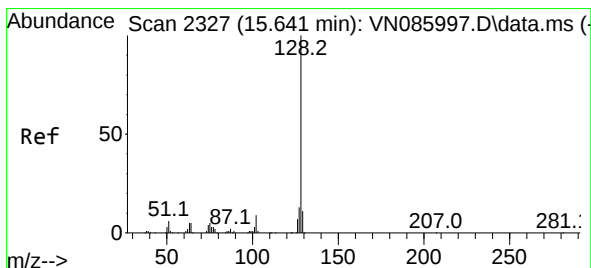
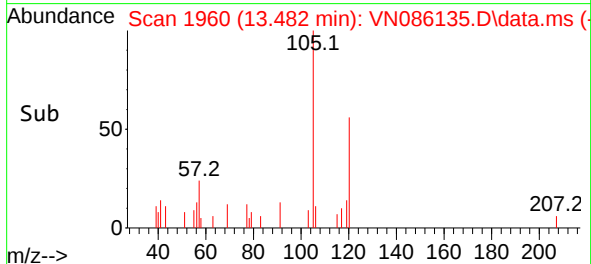
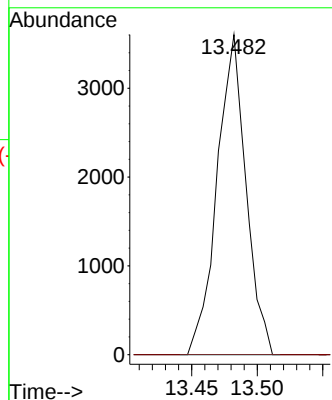
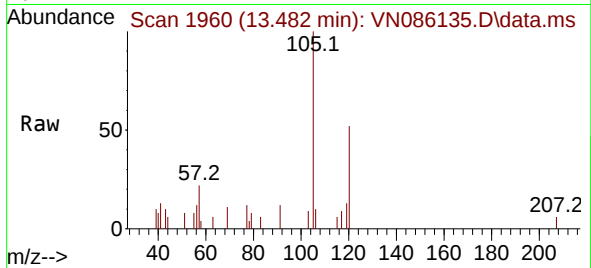




#85
 sec-Butylbenzene
 Concen: 0.698 ug/l
 RT: 13.482 min Scan# 1982
 Delta R.T. -0.130 min
 Lab File: VN086135.D
 Acq: 26 Mar 2025 18:48

Instrument :
 MSVOA_N
 ClientSampleId :
 032025

Tgt Ion:105 Resp: 5524
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.1 30.1#



#95
 Naphthalene
 Concen: 0.444 ug/l
 RT: 15.641 min Scan# 2327
 Delta R.T. -0.000 min
 Lab File: VN086135.D
 Acq: 26 Mar 2025 18:48

Tgt Ion:128 Resp: 2713
 Ion Ratio Lower Upper
 128 100
 127 3.2 10.2 15.4#
 129 4.2 9.0 13.6#

