

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032425\
 Data File : VN086080.D
 Acq On : 24 Mar 2025 18:25
 Operator : JC\MD
 Sample : Q1619-10
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-3

Quant Time: Mar 25 01:29:21 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)

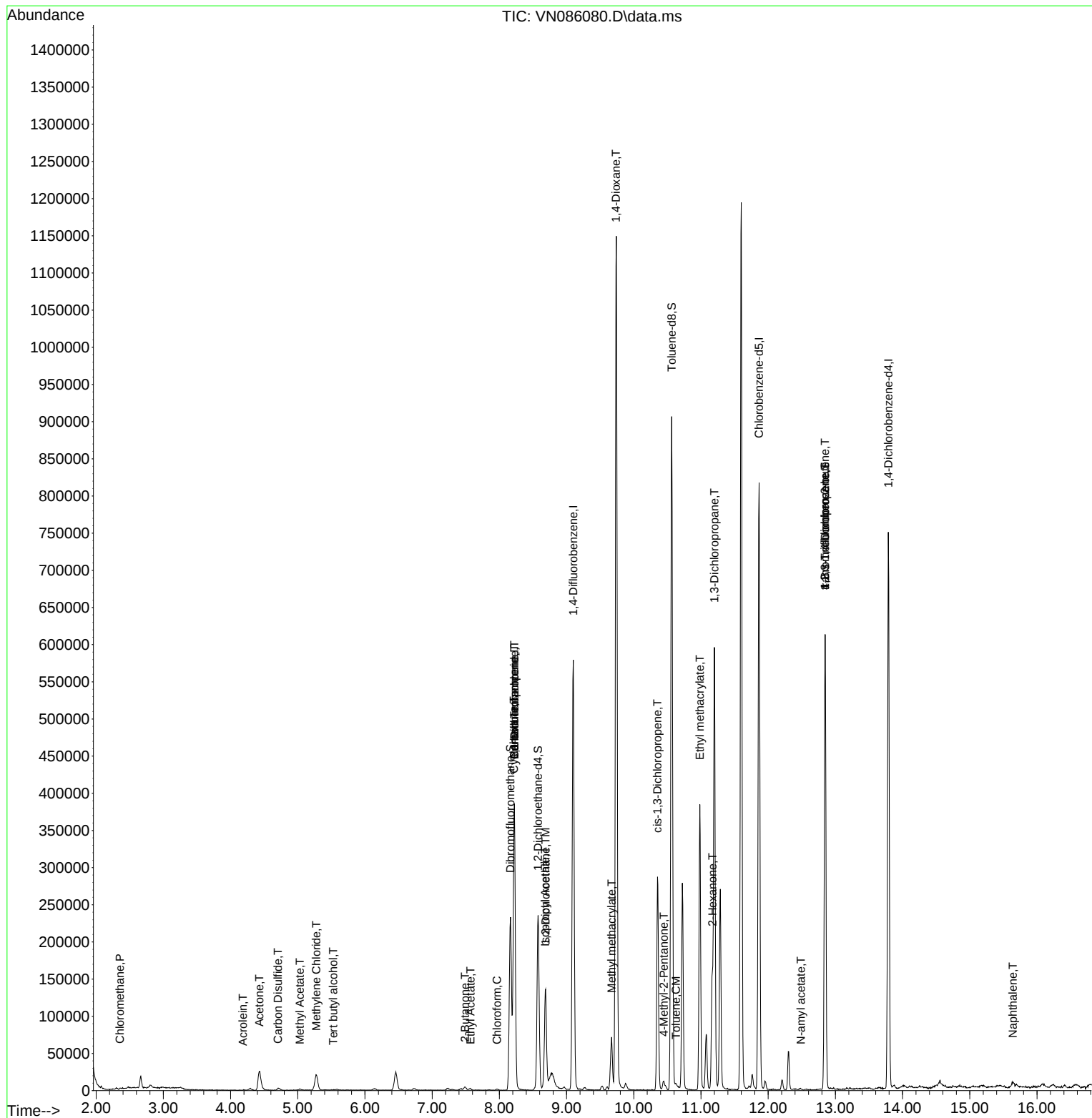
Internal Standards						
1) Pentafluorobenzene	8.224	168	281256	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	515188	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	492000	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	212760	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	194148	50.410	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.820%			
35) Dibromofluoromethane	8.165	113	171725	47.755	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 95.520%			
50) Toluene-d8	10.565	98	648577	49.696	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.400%			
62) 4-Bromofluorobenzene	12.847	95	218513	46.949	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 93.900%			
Target Compounds					Qvalue	
3) Chloromethane	2.353	50	697	0.213	ug/l #	42
11) Tert butyl alcohol	5.530	59	368	0.675	ug/l #	73
13) Acrolein	4.183	56	143	0.246	ug/l #	63
16) Acetone	4.430	43	50378	42.816	ug/l	94
17) Carbon Disulfide	4.706	76	4225	0.446	ug/l #	74
18) Methyl Acetate	5.030	43	2785	0.957	ug/l #	77
20) Methylene Chloride	5.277	84	17549	5.098	ug/l	88
25) 2-Butanone	7.488	43	7482	4.407	ug/l	96
30) Chloroform	7.965	83	1829	0.294	ug/l	90
31) Cyclohexane	8.218	56	5440	1.134	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	21212	4.480	ug/l #	51
37) Ethyl Acetate	7.571	43	3995	1.000	ug/l #	72
38) Carbon Tetrachloride	8.224	117	28554	4.586	ug/l #	16
42) 1,2-Dichloroethane	8.688	62	1187	0.229	ug/l #	74
43) Isopropyl Acetate	8.682	43	153518	17.735	ug/l #	84
48) Methyl methacrylate	9.671	41	4103	1.436	ug/l #	34
49) 1,4-Dioxane	9.735	88	82	1.214	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	13423	3.516	ug/l #	65
52) Toluene	10.629	92	2891	0.317	ug/l	93
54) cis-1,3-Dichloropropene	10.353	75	55006	9.661	ug/l #	69
56) Ethyl methacrylate	10.982	69	1883	0.616	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	6244	1.056	ug/l #	42
59) 2-Hexanone	11.171	43	129470	46.554	ug/l #	18
74) N-amyl acetate	12.488	43	1098	0.226	ug/l #	49
76) 1,2,3-Trichloropropane	12.847	75	108289	22.734	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	108289	60.105	ug/l #	16
95) Naphthalene	15.641	128	4390	0.415	ug/l #	93

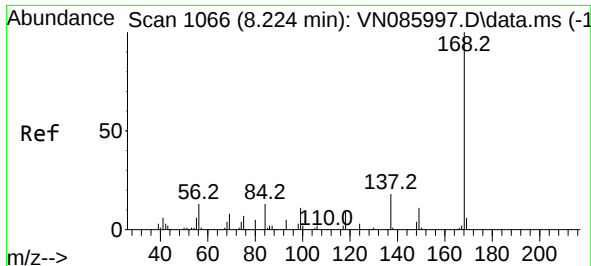
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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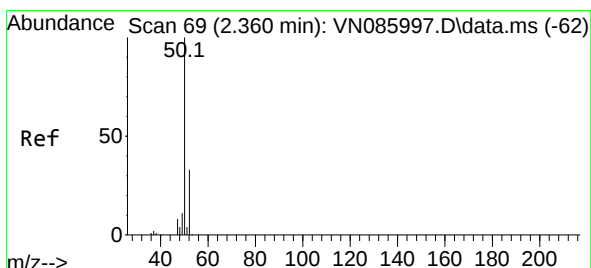
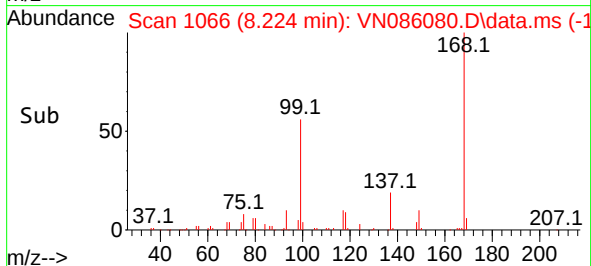
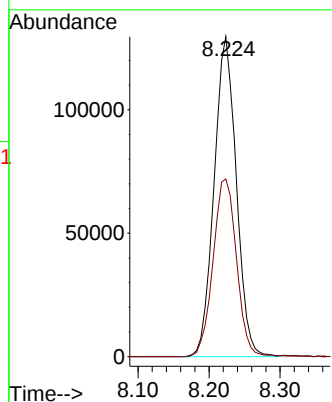
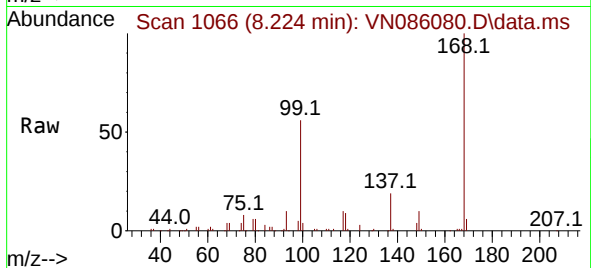




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN086080.D
Acq: 24 Mar 2025 18:25

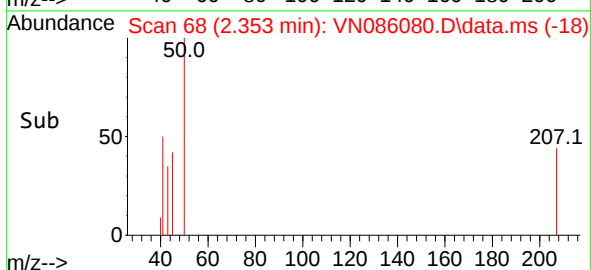
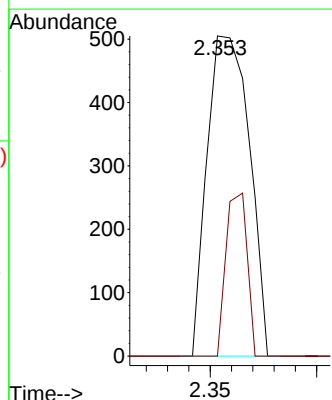
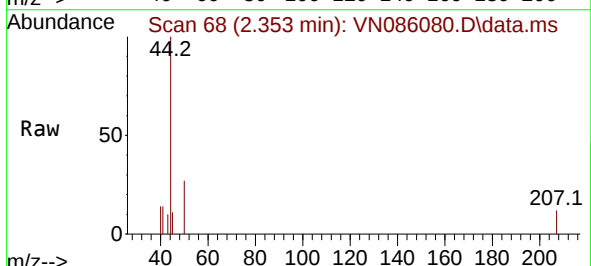
Instrument :
MSVOA_N
ClientSampleId :
TP-3

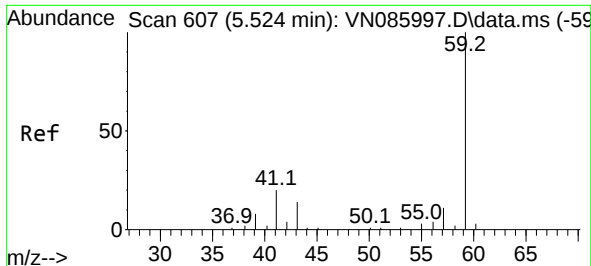
Tgt Ion:168 Resp: 281256
Ion Ratio Lower Upper
168 100
99 55.6 49.4 74.2



#3
Chloromethane
Concen: 0.213 ug/l
RT: 2.353 min Scan# 68
Delta R.T. -0.006 min
Lab File: VN086080.D
Acq: 24 Mar 2025 18:25

Tgt Ion: 50 Resp: 697
Ion Ratio Lower Upper
50 100
52 0.0 26.0 39.0#





#11

Tert butyl alcohol

Concen: 0.675 ug/l

RT: 5.530 min Scan# 607

Delta R.T. 0.006 min

Lab File: VN086080.D

Acq: 24 Mar 2025 18:25

Instrument :

MSVOA_N

ClientSampleId :

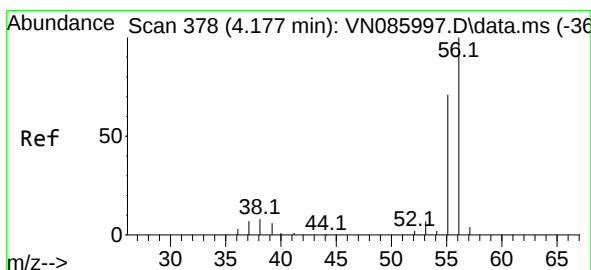
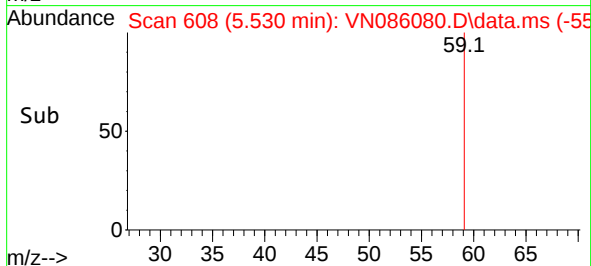
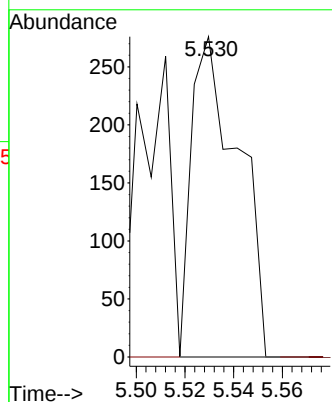
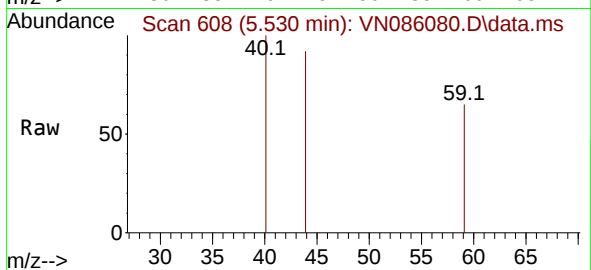
TP-3

Tgt Ion: 59 Resp: 368

Ion Ratio Lower Upper

59 100

57 0.0 7.9 11.9#



#13

Acrolein

Concen: 0.246 ug/l

RT: 4.183 min Scan# 379

Delta R.T. 0.006 min

Lab File: VN086080.D

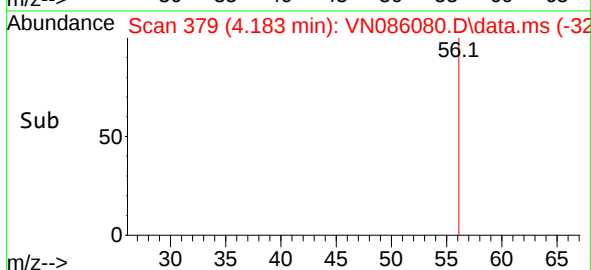
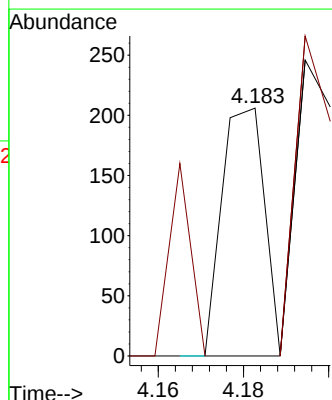
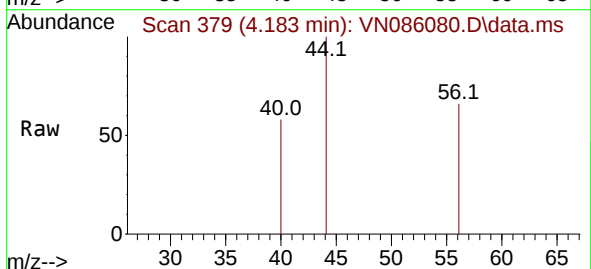
Acq: 24 Mar 2025 18:25

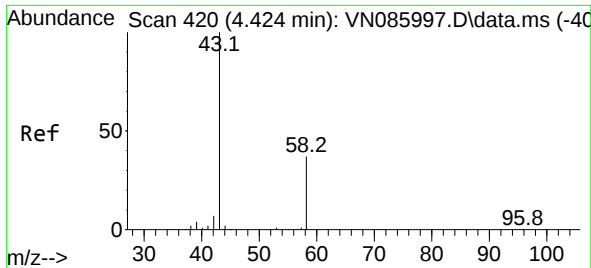
Tgt Ion: 56 Resp: 143

Ion Ratio Lower Upper

56 100

55 39.2 55.1 82.7#





#16

Acetone

Concen: 42.816 ug/l

RT: 4.430 min Scan# 41

Delta R.T. 0.006 min

Lab File: VN086080.D

Acq: 24 Mar 2025 18:25

Instrument :

MSVOA_N

ClientSampleId :

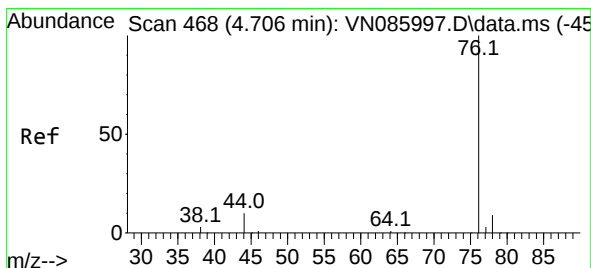
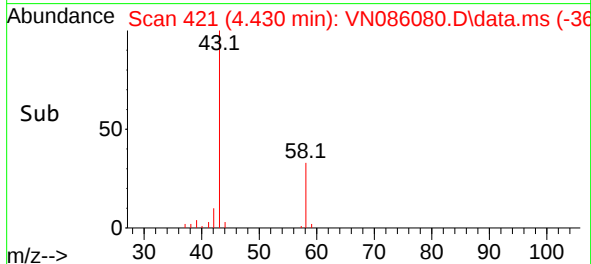
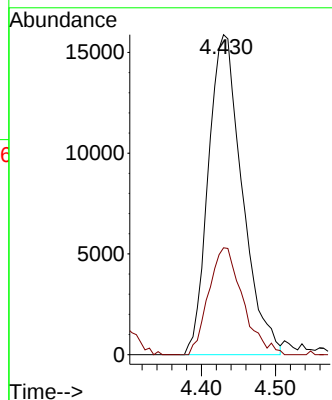
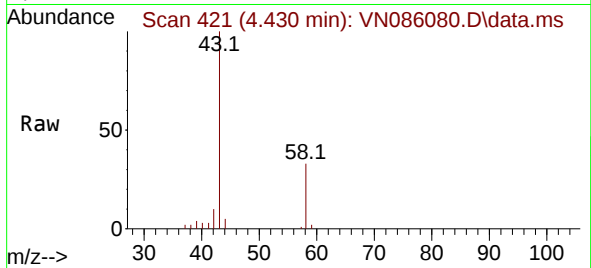
TP-3

Tgt Ion: 43 Resp: 50378

Ion Ratio Lower Upper

43 100

58 33.4 29.4 44.2



#17

Carbon Disulfide

Concen: 0.446 ug/l

RT: 4.706 min Scan# 468

Delta R.T. -0.000 min

Lab File: VN086080.D

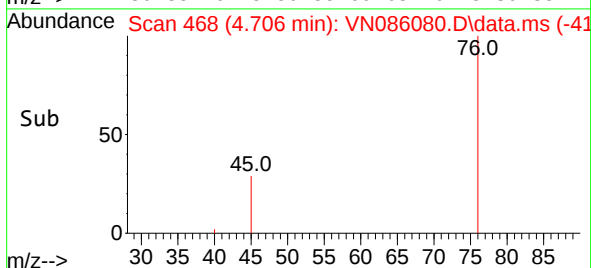
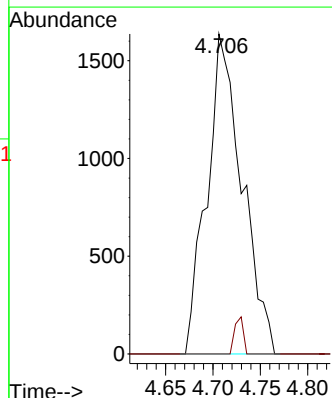
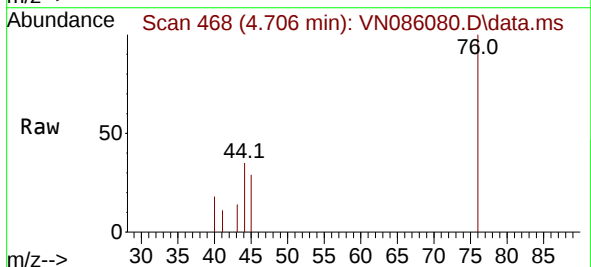
Acq: 24 Mar 2025 18:25

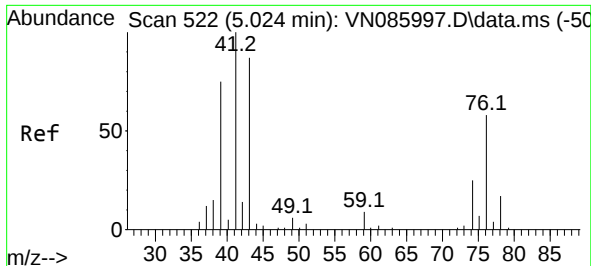
Tgt Ion: 76 Resp: 4225

Ion Ratio Lower Upper

76 100

78 0.0 7.4 11.2#

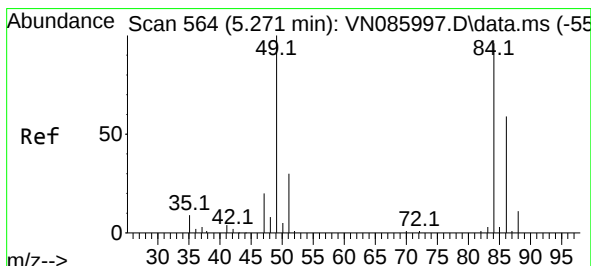
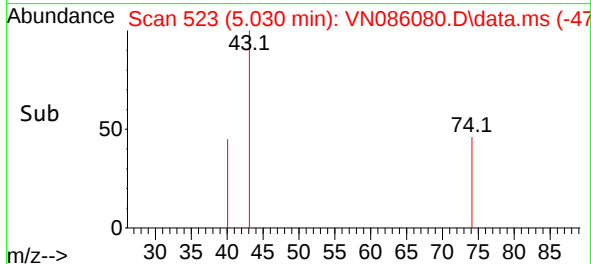
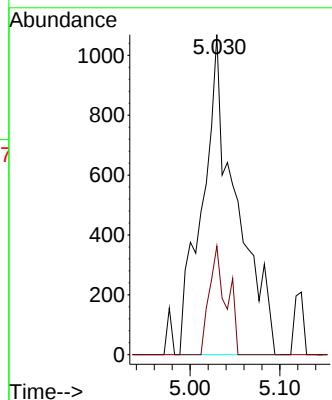
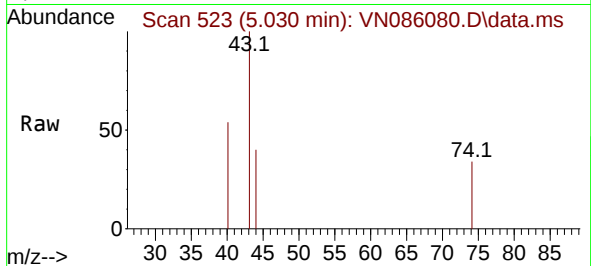




#18
Methyl Acetate
Concen: 0.957 ug/l
RT: 5.030 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN086080.D
Acq: 24 Mar 2025 18:25

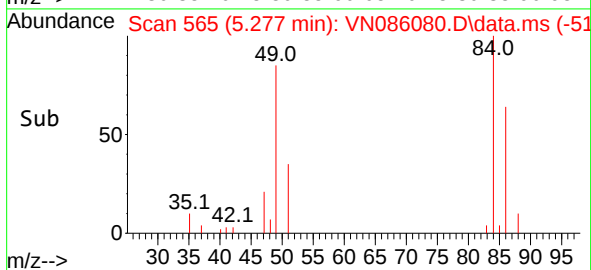
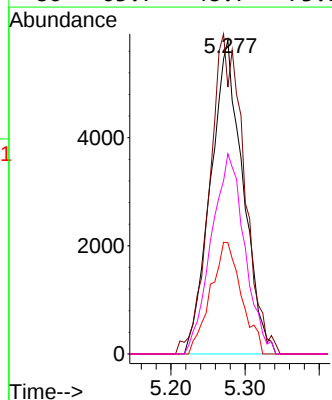
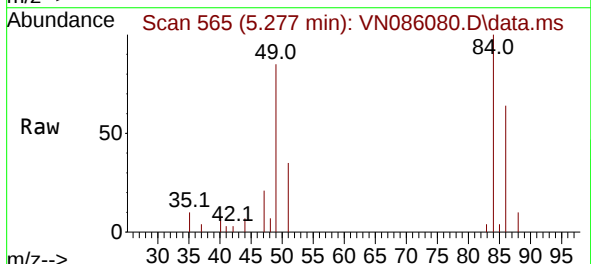
Instrument :
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ClientSampleId :
TP-3

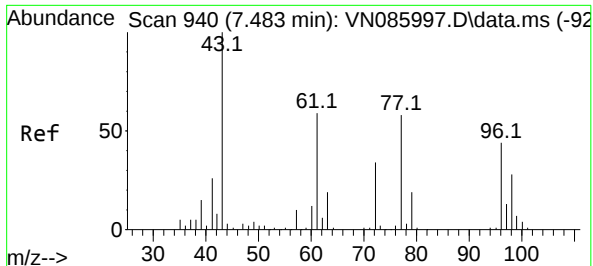
Tgt Ion: 43 Resp: 2785
Ion Ratio Lower Upper
43 100
74 17.3 23.9 35.9#



#20
Methylene Chloride
Concen: 5.098 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.006 min
Lab File: VN086080.D
Acq: 24 Mar 2025 18:25

Tgt Ion: 84 Resp: 17549
Ion Ratio Lower Upper
84 100
49 85.0 83.3 124.9
51 35.4 24.8 37.2
86 63.7 48.7 73.1

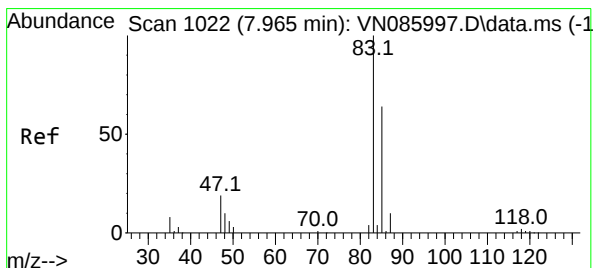
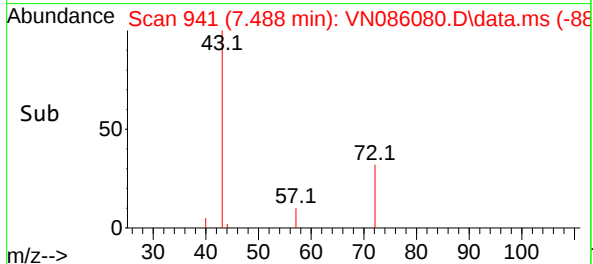
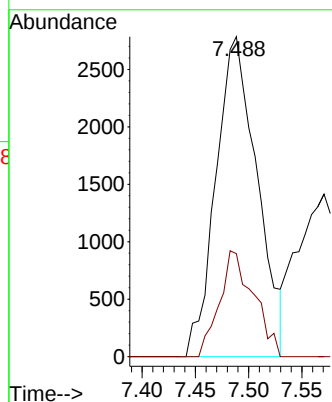
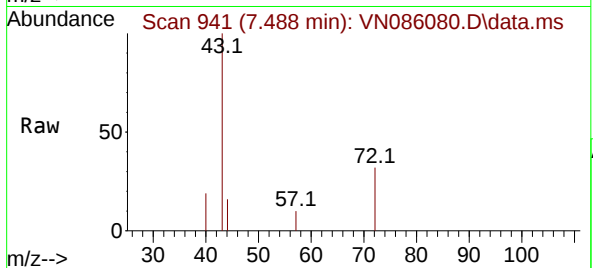




#25
2-Butanone
Concen: 4.407 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN086080.D
Acq: 24 Mar 2025 18:25

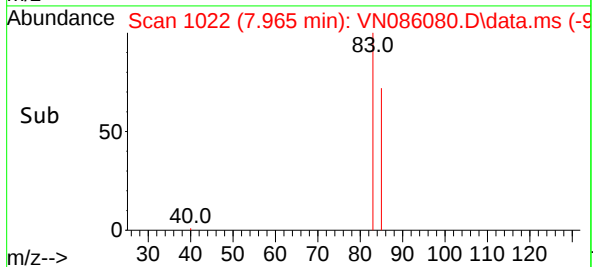
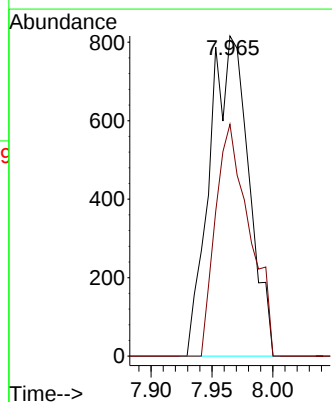
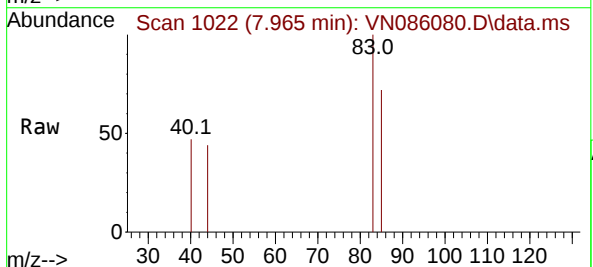
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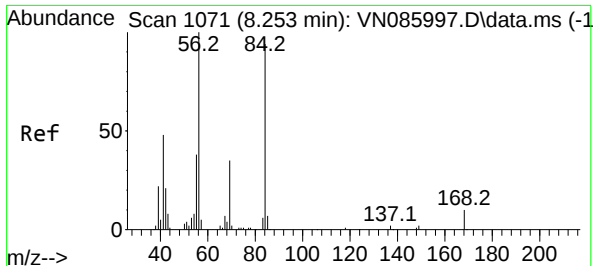
Tgt Ion: 43 Resp: 7482
Ion Ratio Lower Upper
43 100
72 32.2 27.4 41.0



#30
Chloroform
Concen: 0.294 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. -0.000 min
Lab File: VN086080.D
Acq: 24 Mar 2025 18:25

Tgt Ion: 83 Resp: 1829
Ion Ratio Lower Upper
83 100
85 72.4 51.5 77.3

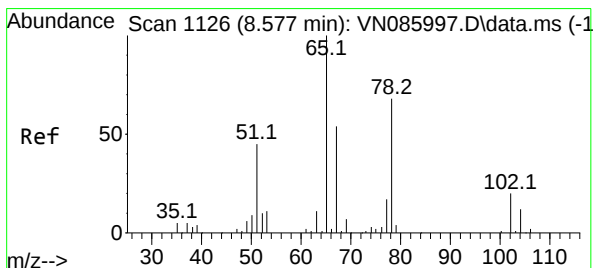
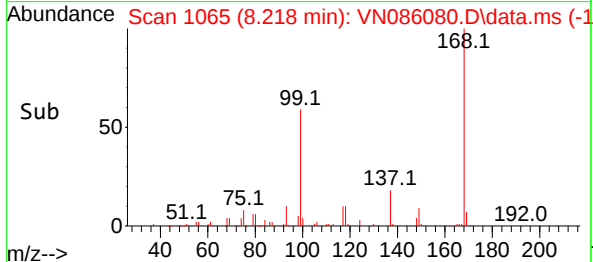
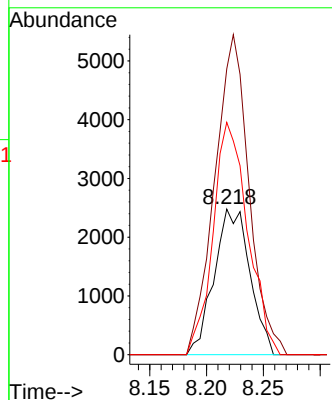
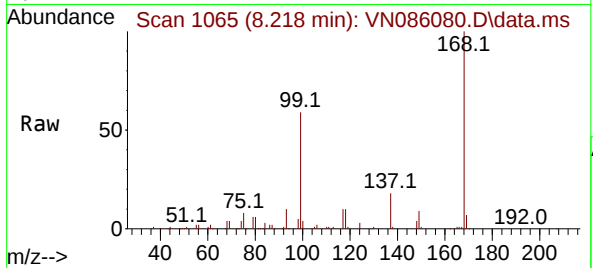




#31
Cyclohexane
Concen: 1.134 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.036 min
Lab File: VN086080.D
Acq: 24 Mar 2025 18:25

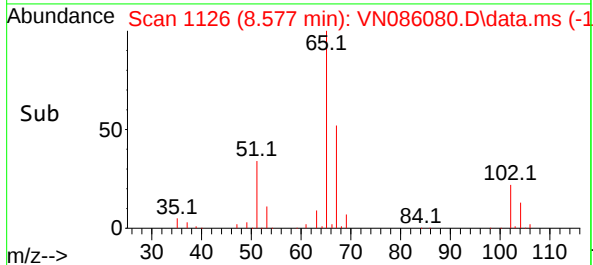
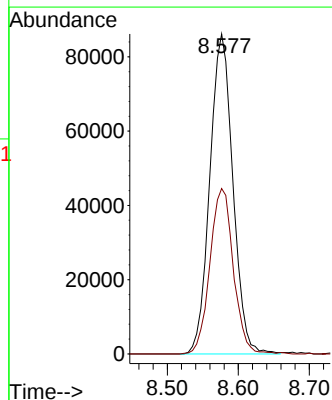
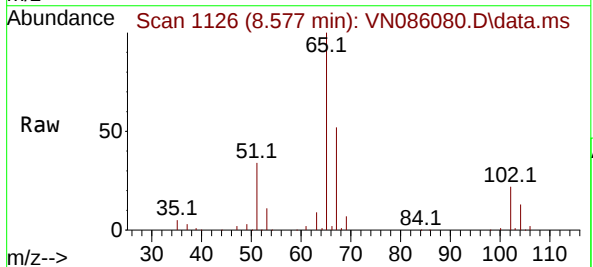
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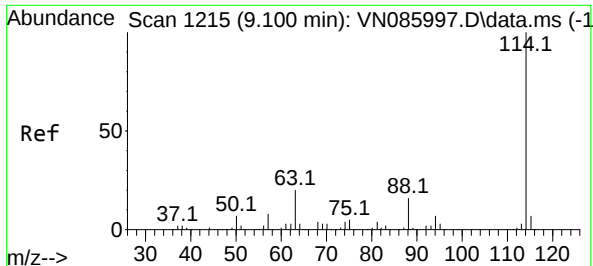
Tgt Ion: 56 Resp: 5440
Ion Ratio Lower Upper
56 100
69 196.1 28.0 42.0#
84 159.5 75.0 112.6#



#33
1,2-Dichloroethane-d4
Concen: 50.410 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN086080.D
Acq: 24 Mar 2025 18:25

Tgt Ion: 65 Resp: 194148
Ion Ratio Lower Upper
65 100
67 52.4 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: VN086080.D

Acq: 24 Mar 2025 18:25

Instrument :

MSVOA_N

ClientSampleId :

TP-3

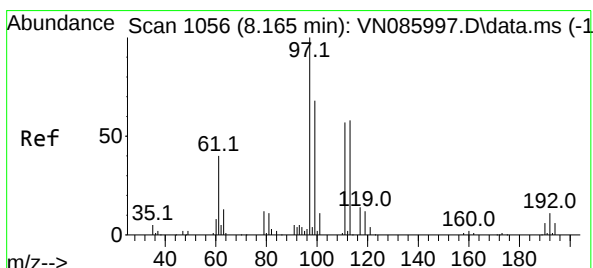
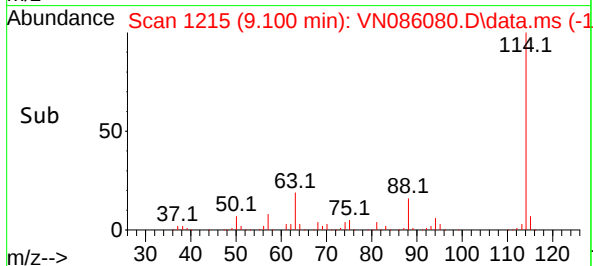
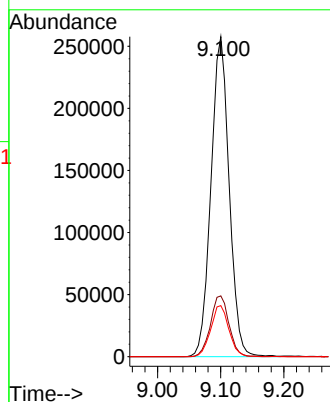
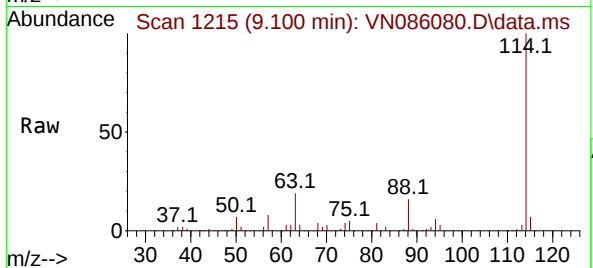
Tgt Ion:114 Resp: 515188

Ion Ratio Lower Upper

114 100

63 19.0 0.0 39.6

88 15.9 0.0 32.6



#35

Dibromofluoromethane

Concen: 47.755 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086080.D

Acq: 24 Mar 2025 18:25

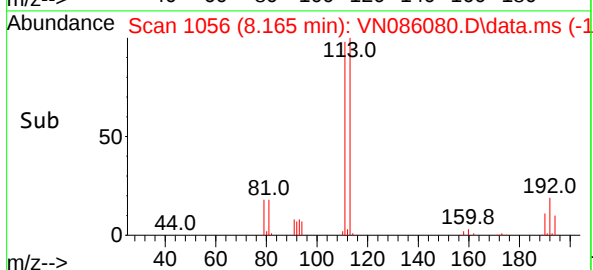
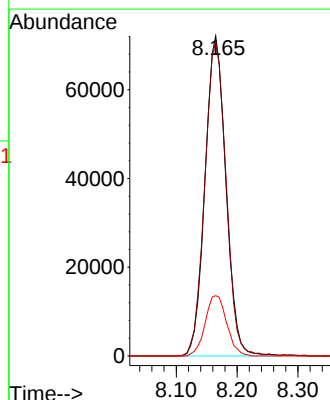
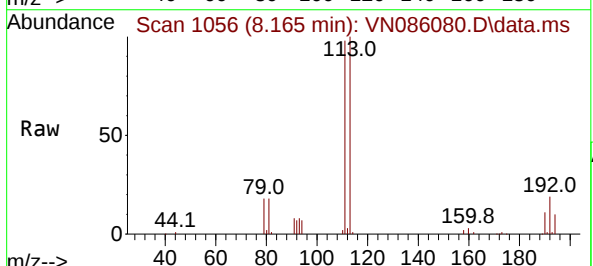
Tgt Ion:113 Resp: 171725

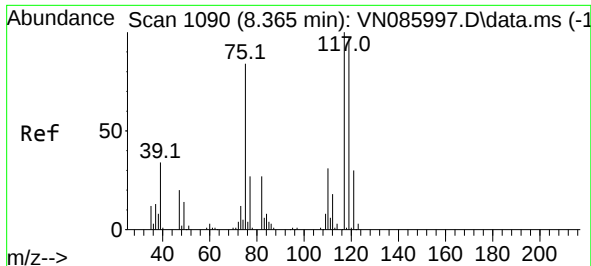
Ion Ratio Lower Upper

113 100

111 100.8 81.8 122.8

192 19.5 15.9 23.9

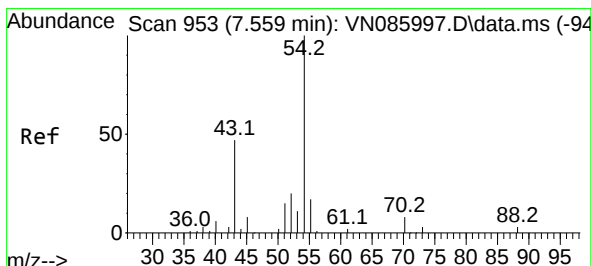
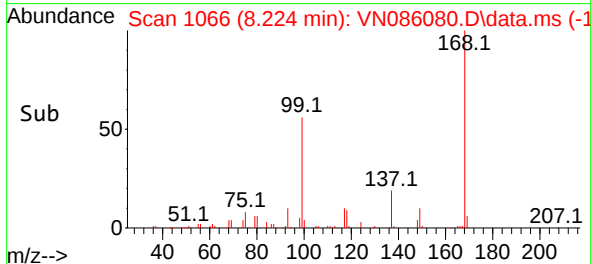
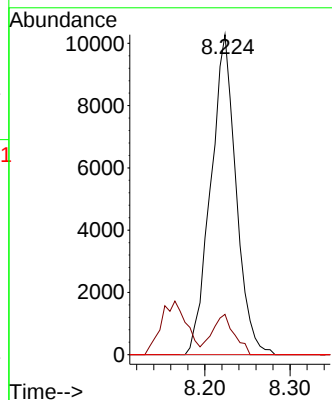
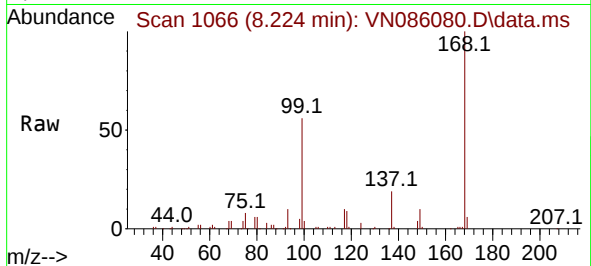




#36
1,1-Dichloropropene
Concen: 4.480 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.141 min
Lab File: VN086080.D
Acq: 24 Mar 2025 18:25

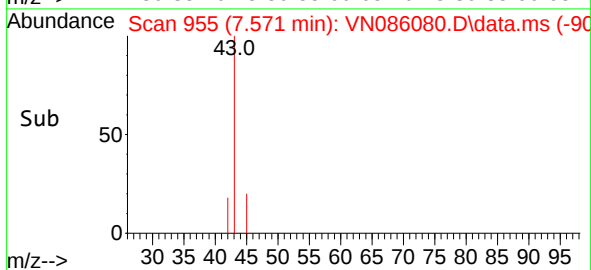
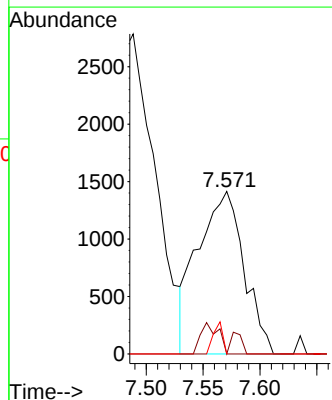
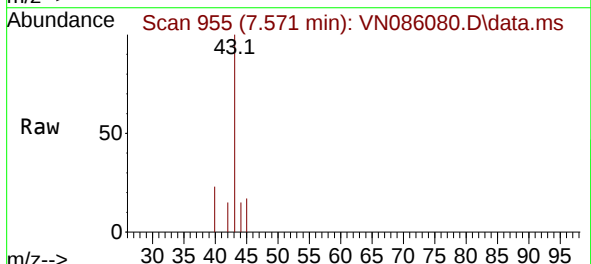
Instrument :
MSVOA_N
ClientSampleId :
TP-3

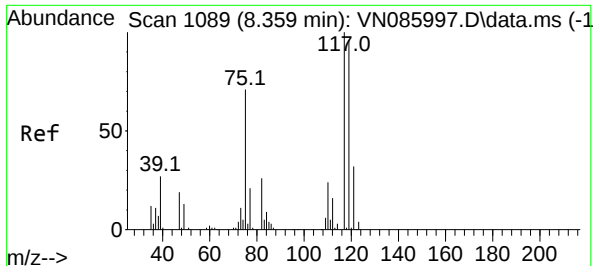
Tgt Ion: 75 Resp: 21212
Ion Ratio Lower Upper
75 100
110 11.0 17.8 53.3#
77 0.0 25.0 37.4#



#37
Ethyl Acetate
Concen: 1.000 ug/l
RT: 7.571 min Scan# 955
Delta R.T. 0.012 min
Lab File: VN086080.D
Acq: 24 Mar 2025 18:25

Tgt Ion: 43 Resp: 3995
Ion Ratio Lower Upper
43 100
61 3.2 13.0 19.4#
70 4.0 11.0 16.6#

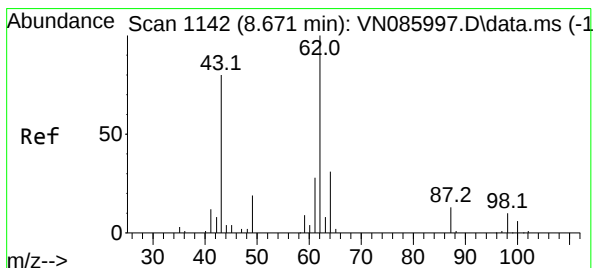
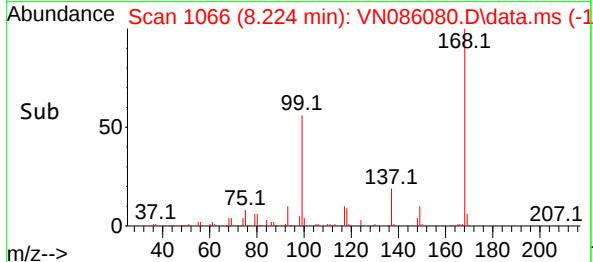
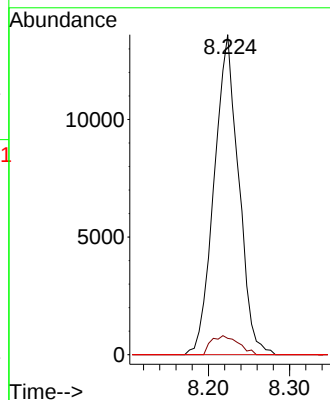
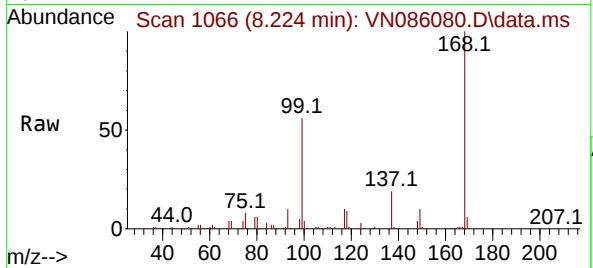




#38
Carbon Tetrachloride
Concen: 4.586 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.136 min
Lab File: VN086080.D
Acq: 24 Mar 2025 18:25

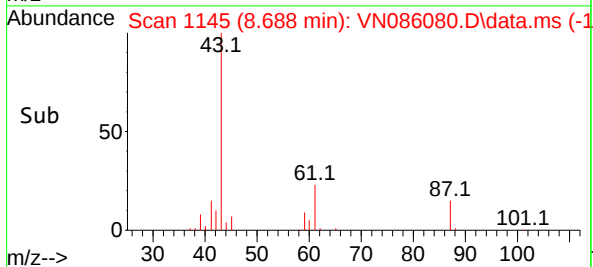
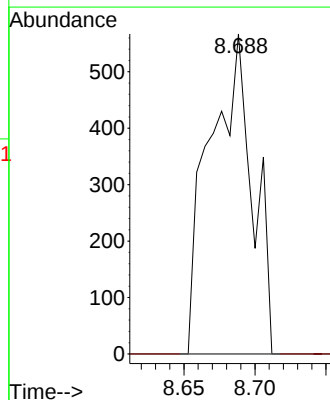
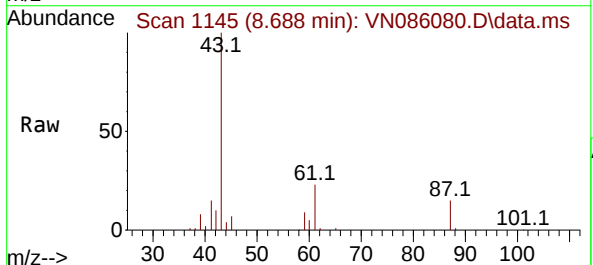
Instrument :
MSVOA_N
ClientSampleId :
TP-3

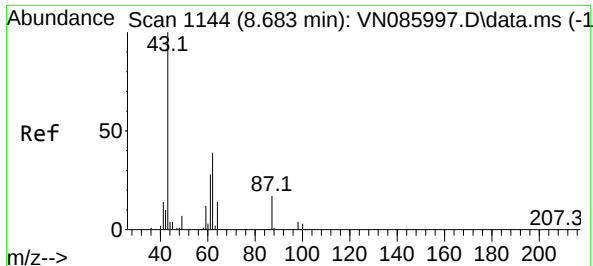
Tgt Ion:117 Resp: 28554
Ion Ratio Lower Upper
117 100
119 5.1 77.0 115.4#
121 0.0 25.6 38.4#



#42
1,2-Dichloroethane
Concen: 0.229 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.017 min
Lab File: VN086080.D
Acq: 24 Mar 2025 18:25

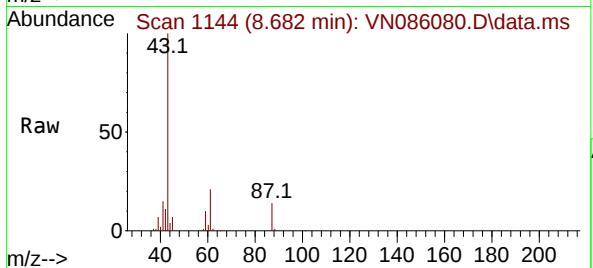
Tgt Ion: 62 Resp: 1187
Ion Ratio Lower Upper
62 100
98 0.0 0.0 18.6



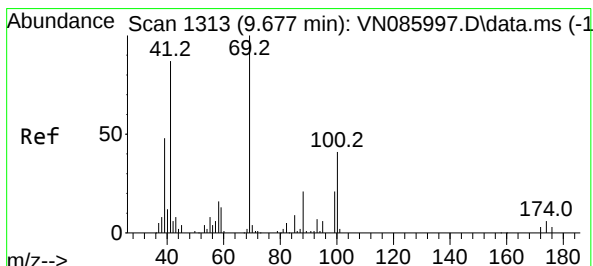
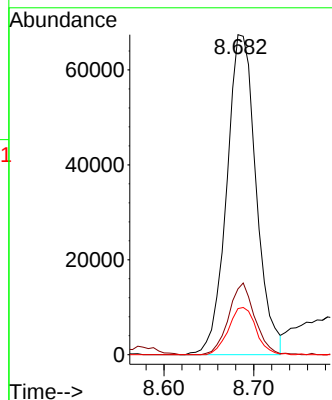
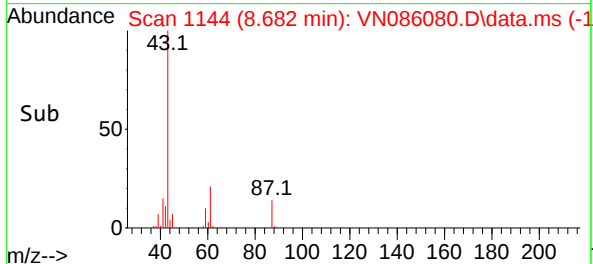


#43
Isopropyl Acetate
Concen: 17.735 ug/l
RT: 8.682 min Scan# 1144
Delta R.T. -0.000 min
Lab File: VN086080.D
Acq: 24 Mar 2025 18:25

Instrument :
MSVOA_N
ClientSampleId :
TP-3

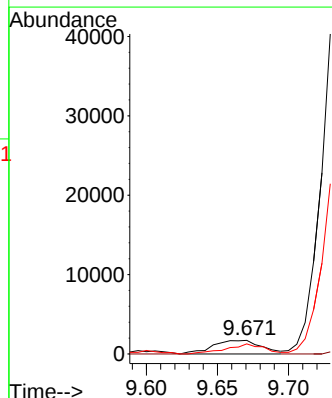
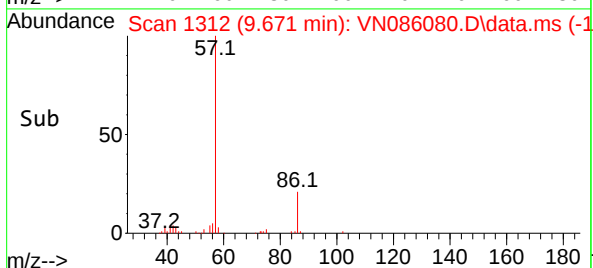
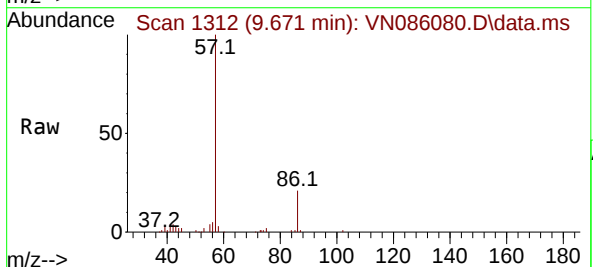


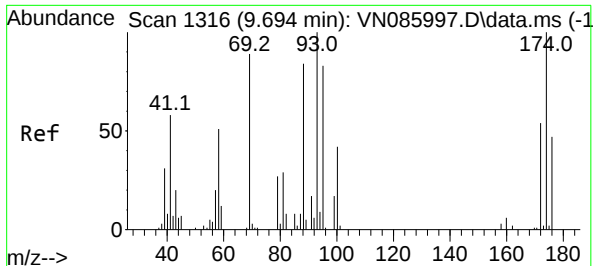
Tgt Ion: 43 Resp: 153518
Ion Ratio Lower Upper
43 100
61 19.9 25.0 37.6#
87 13.8 13.0 19.4



#48
Methyl methacrylate
Concen: 1.436 ug/l
RT: 9.671 min Scan# 1312
Delta R.T. -0.006 min
Lab File: VN086080.D
Acq: 24 Mar 2025 18:25

Tgt Ion: 41 Resp: 4103
Ion Ratio Lower Upper
41 100
69 0.0 83.1 124.7#
39 58.3 45.6 68.4





#49

1,4-Dioxane

Concen: 1.214 ug/l

RT: 9.735 min Scan# 11

Delta R.T. 0.041 min

Lab File: VN086080.D

Acq: 24 Mar 2025 18:25

Instrument :

MSVOA_N

ClientSampleId :

TP-3

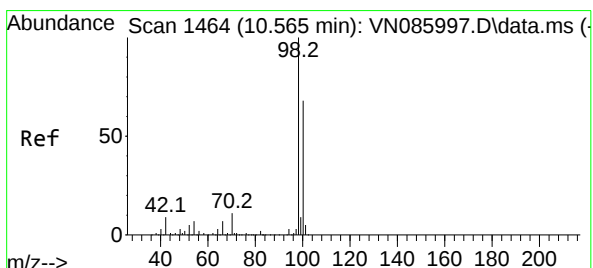
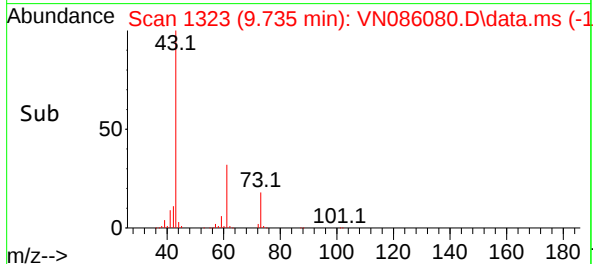
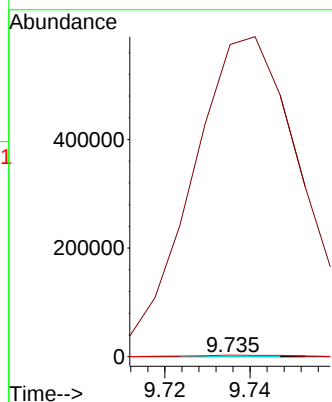
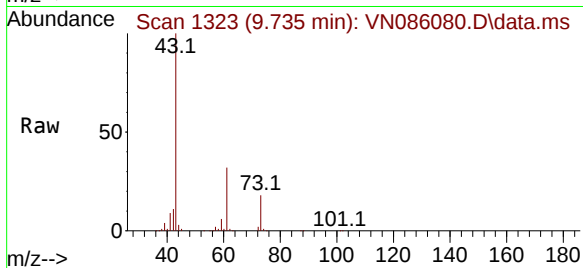
Tgt Ion: 88 Resp: 82

Ion Ratio Lower Upper

88 100

43 1323467.1 21.7 32.5#

58 6554.9 50.4 75.6#



#50

Toluene-d8

Concen: 49.696 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN086080.D

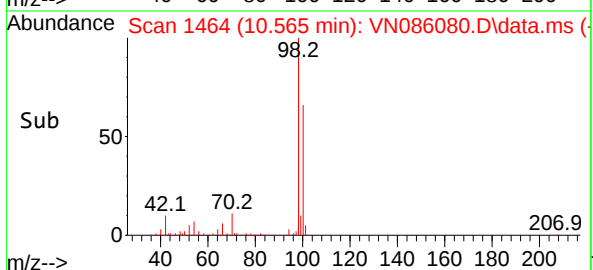
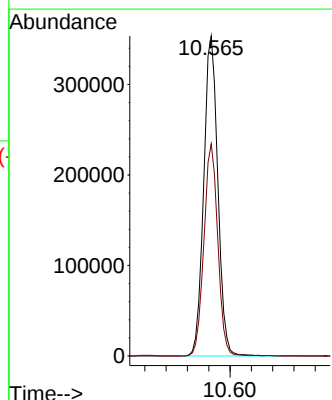
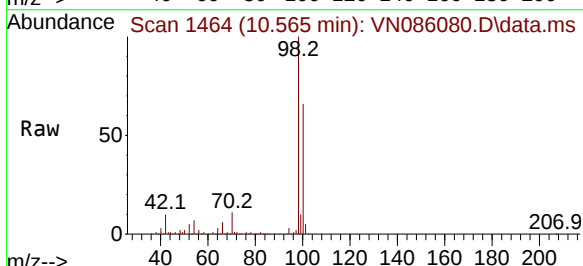
Acq: 24 Mar 2025 18:25

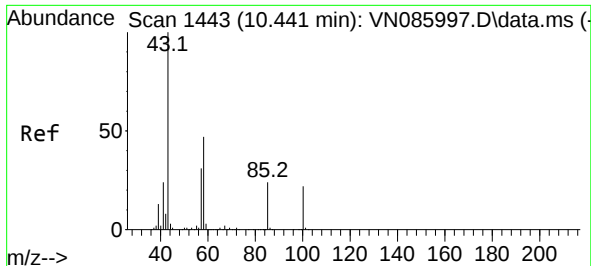
Tgt Ion: 98 Resp: 648577

Ion Ratio Lower Upper

98 100

100 65.2 53.1 79.7

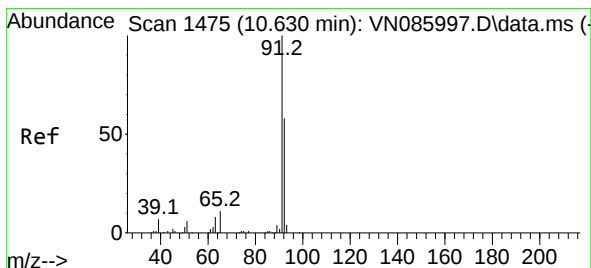
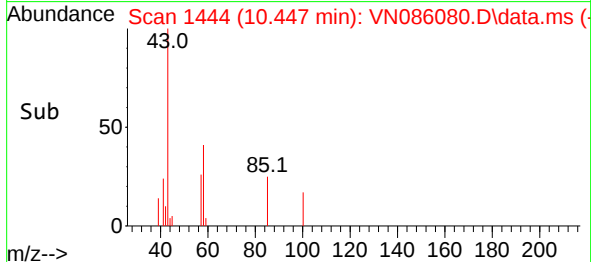
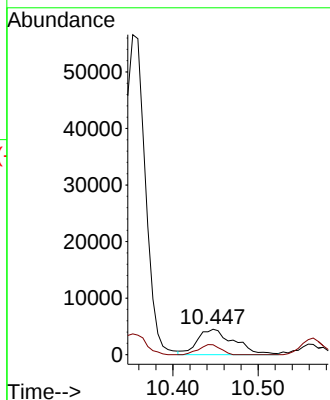
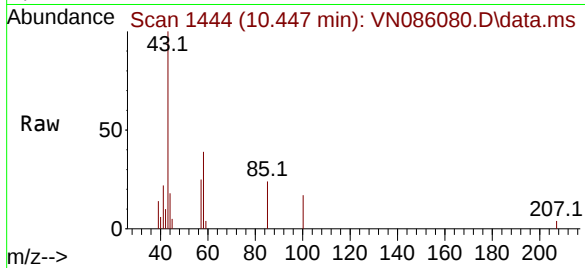




#51
4-Methyl-2-Pentanone
Concen: 3.516 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.006 min
Lab File: VN086080.D
Acq: 24 Mar 2025 18:25

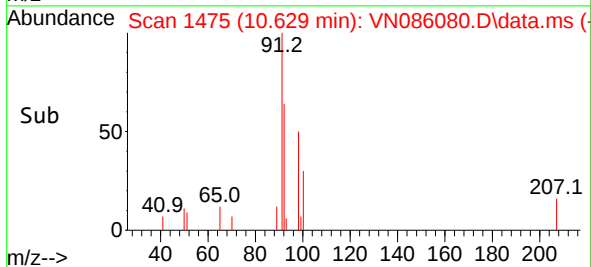
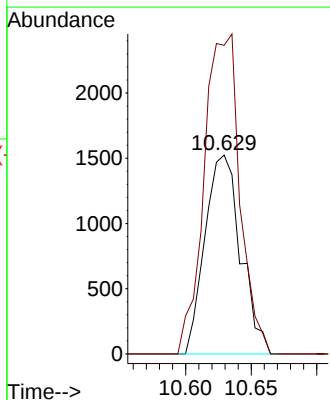
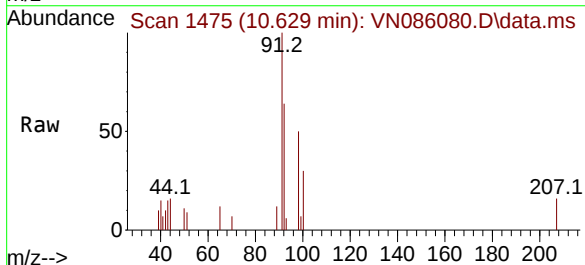
Instrument :
MSVOA_N
ClientSampleId :
TP-3

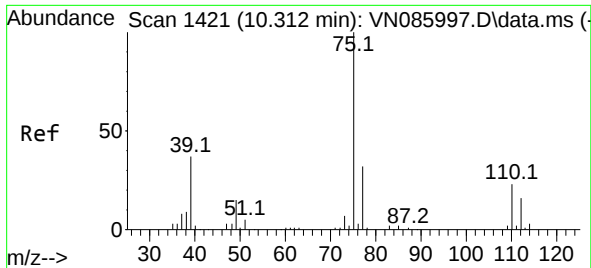
Tgt Ion: 43 Resp: 13423
Ion Ratio Lower Upper
43 100
58 23.4 37.4 56.0#



#52
Toluene
Concen: 0.317 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN086080.D
Acq: 24 Mar 2025 18:25

Tgt Ion: 92 Resp: 2891
Ion Ratio Lower Upper
92 100
91 161.0 136.2 204.4

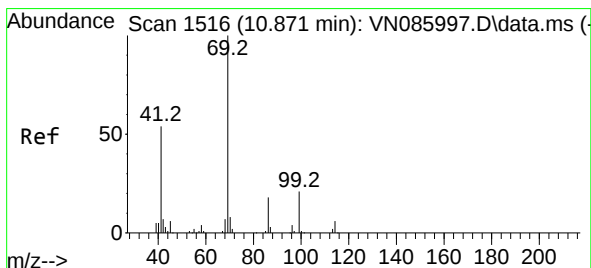
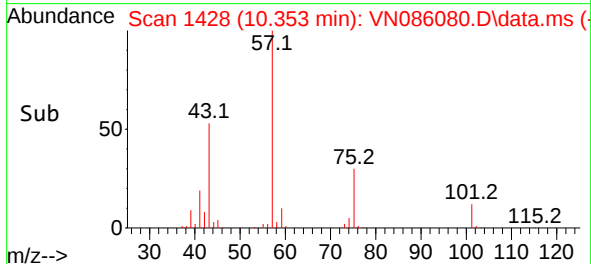
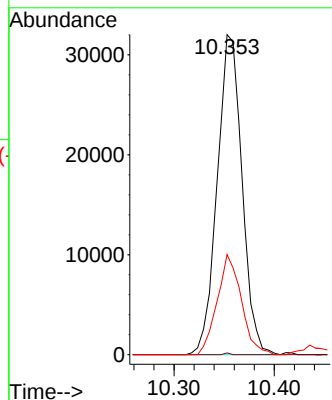
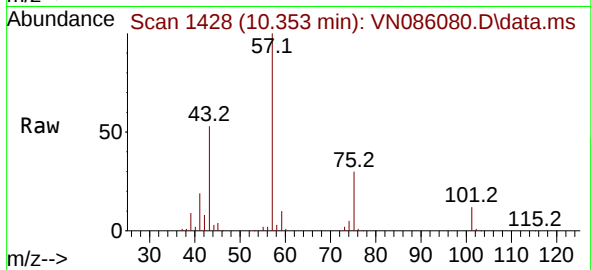




#54
cis-1,3-Dichloropropene
Concen: 9.661 ug/l
RT: 10.353 min Scan# 1428
Delta R.T. 0.041 min
Lab File: VN086080.D
Acq: 24 Mar 2025 18:25

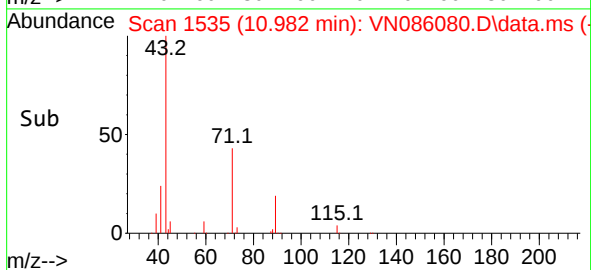
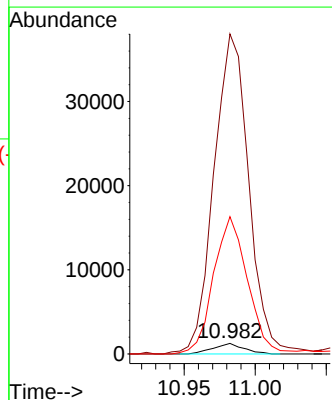
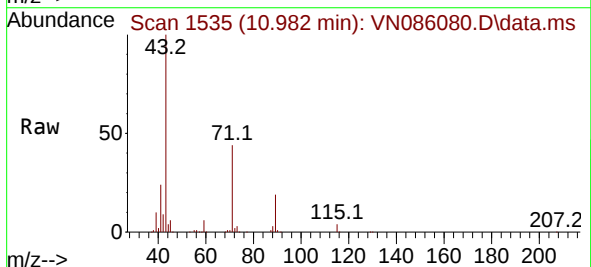
Instrument :
MSVOA_N
ClientSampleId :
TP-3

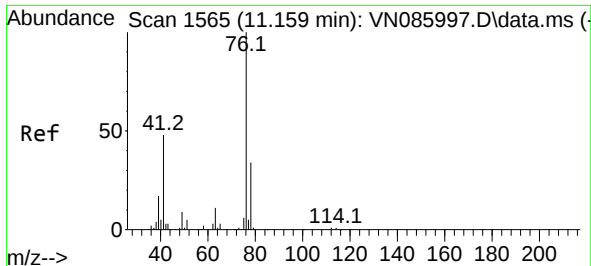
Tgt Ion:	75	Resp:	55006
Ion Ratio	Lower	Upper	
75	100		
77	0.5	25.3	37.9#
39	31.3	29.6	44.4



#56
Ethyl methacrylate
Concen: 0.616 ug/l
RT: 10.982 min Scan# 1535
Delta R.T. 0.111 min
Lab File: VN086080.D
Acq: 24 Mar 2025 18:25

Tgt Ion:	69	Resp:	1883
Ion Ratio	Lower	Upper	
69	100		
41	3462.9	41.6	62.4#
39	1446.0	21.8	32.8#





#57

1,3-Dichloropropane

Concen: 1.056 ug/l

RT: 11.200 min Scan# 1567

Delta R.T. 0.041 min

Lab File: VN086080.D

Acq: 24 Mar 2025 18:25

Instrument :

MSVOA_N

ClientSampleId :

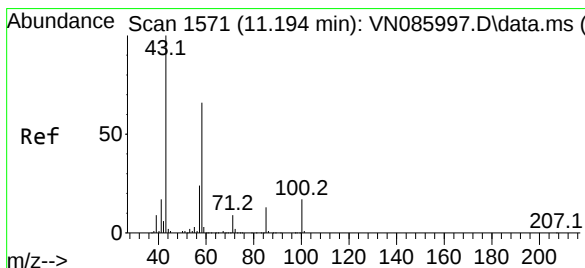
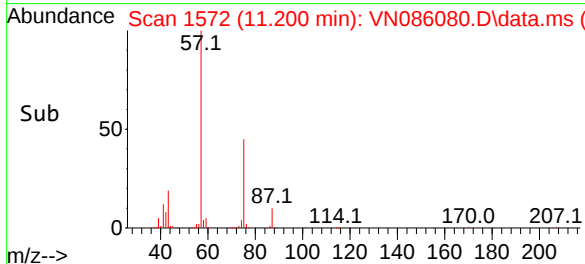
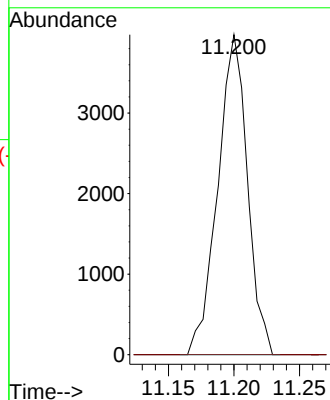
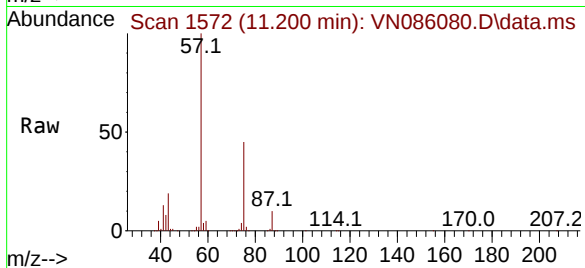
TP-3

Tgt Ion: 76 Resp: 6244

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.6#



#59

2-Hexanone

Concen: 46.554 ug/l

RT: 11.171 min Scan# 1567

Delta R.T. -0.024 min

Lab File: VN086080.D

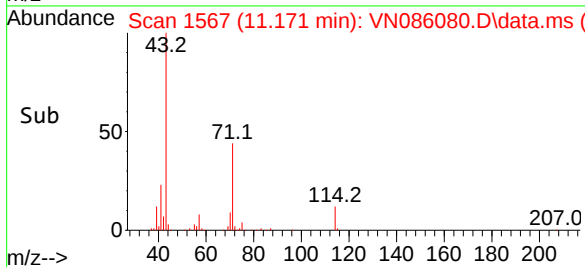
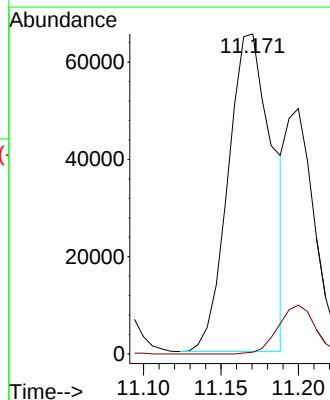
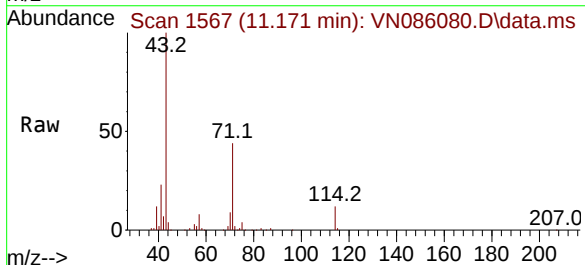
Acq: 24 Mar 2025 18:25

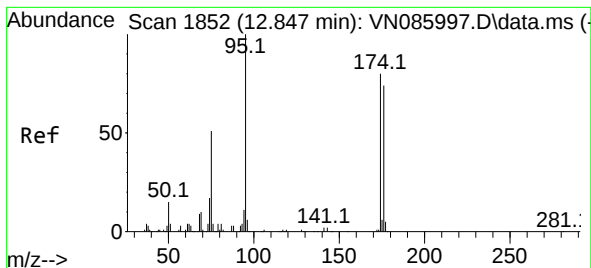
Tgt Ion: 43 Resp: 129470

Ion Ratio Lower Upper

43 100

58 0.0 32.4 97.2#

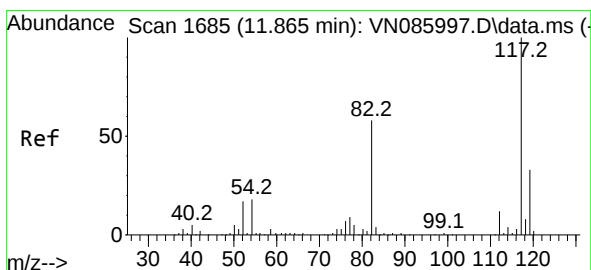
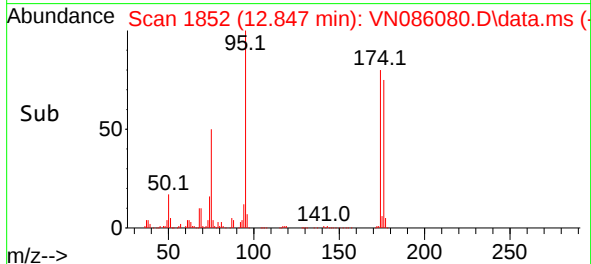
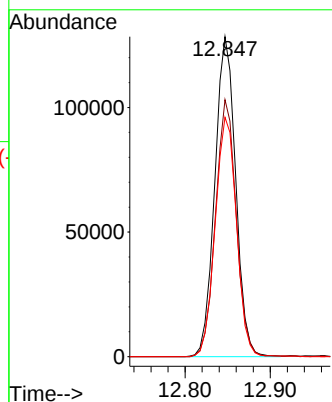
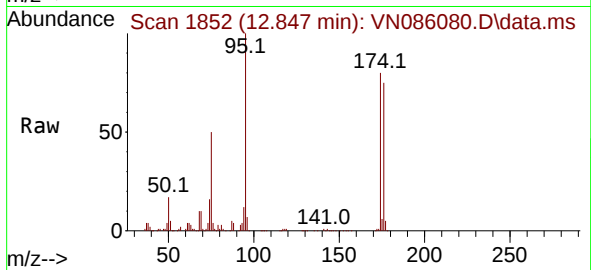




#62
4-Bromofluorobenzene
Concen: 46.949 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086080.D
Acq: 24 Mar 2025 18:25

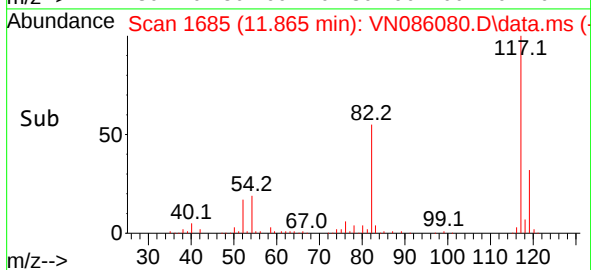
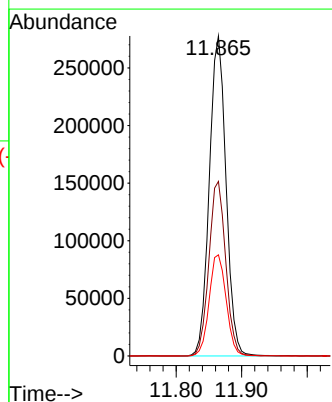
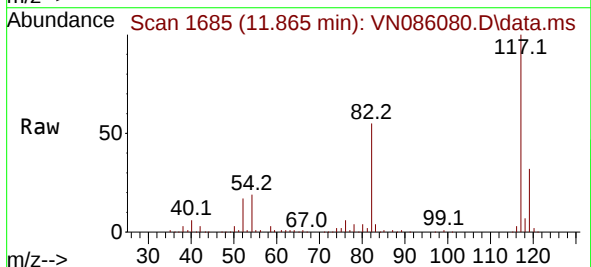
Instrument :
MSVOA_N
ClientSampleId :
TP-3

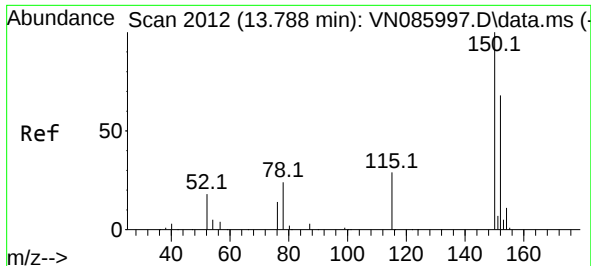
Tgt Ion: 95 Resp: 218513
Ion Ratio Lower Upper
95 100
174 80.0 0.0 156.8
176 76.5 0.0 152.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086080.D
Acq: 24 Mar 2025 18:25

Tgt Ion: 117 Resp: 492000
Ion Ratio Lower Upper
117 100
82 54.6 46.7 70.1
119 31.6 26.5 39.7

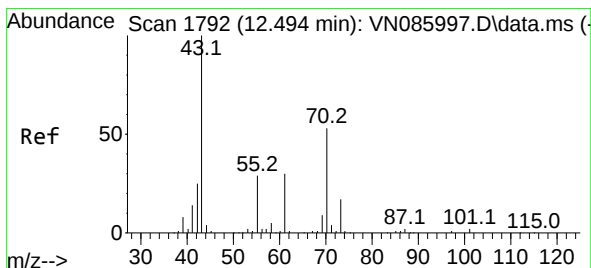
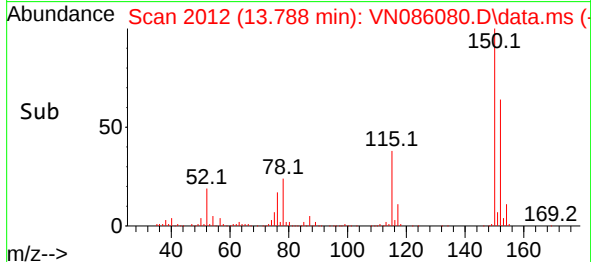
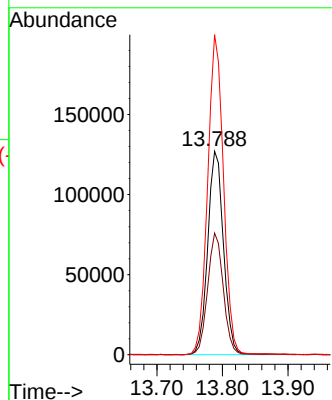
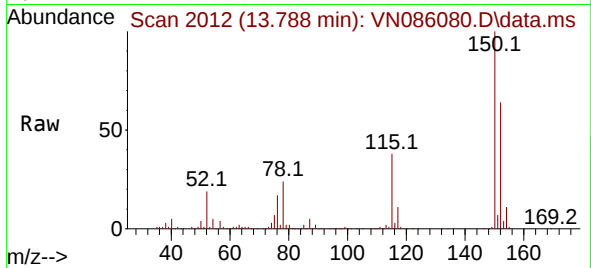




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.788 min Scan# 20
 Delta R.T. -0.000 min
 Lab File: VN086080.D
 Acq: 24 Mar 2025 18:25

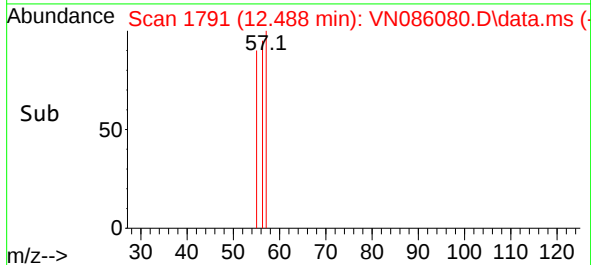
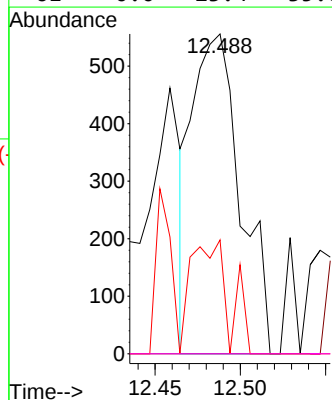
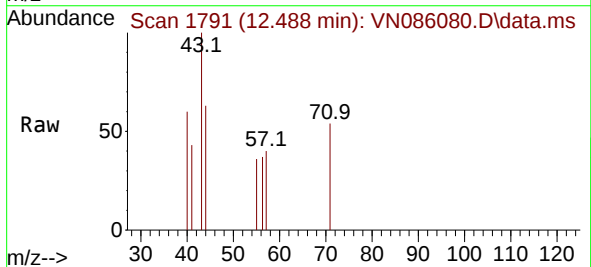
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-3

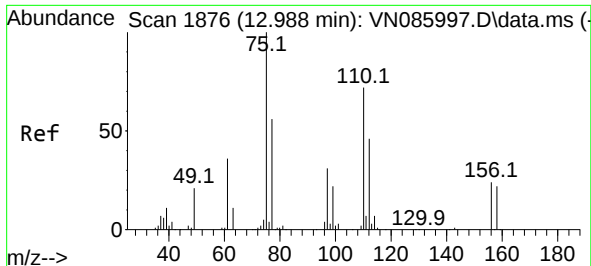
Tgt Ion:152 Resp: 212760
 Ion Ratio Lower Upper
 152 100
 115 59.4 31.1 93.2
 150 157.6 0.0 359.6



#74
 N-ethyl acetate
 Concen: 0.226 ug/l
 RT: 12.488 min Scan# 1791
 Delta R.T. -0.006 min
 Lab File: VN086080.D
 Acq: 24 Mar 2025 18:25

Tgt Ion: 43 Resp: 1098
 Ion Ratio Lower Upper
 43 100
 70 0.0 43.0 64.4#
 55 28.1 23.8 35.8
 61 0.0 23.4 35.0#

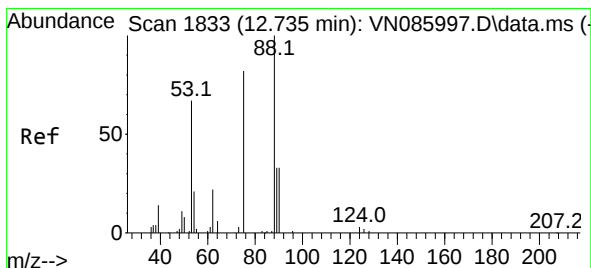
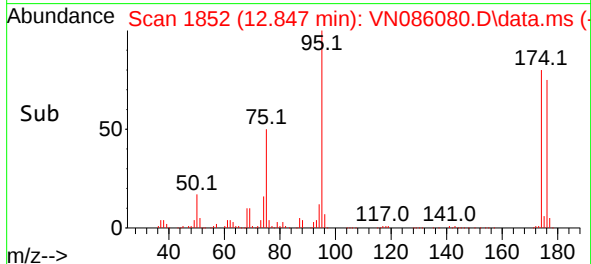
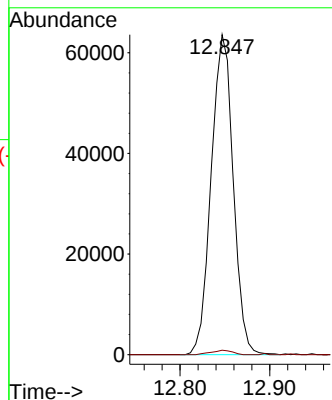
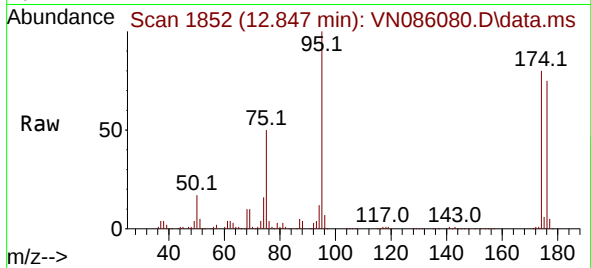




#76
1,2,3-Trichloropropane
Concen: 22.734 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN086080.D
Acq: 24 Mar 2025 18:25

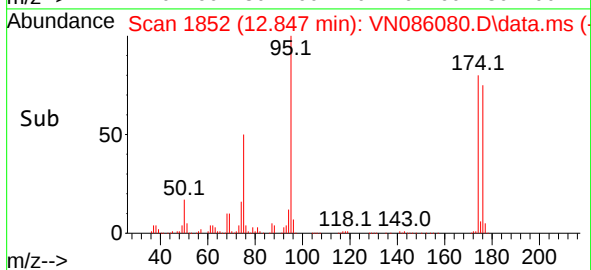
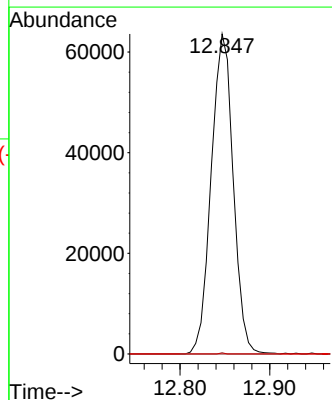
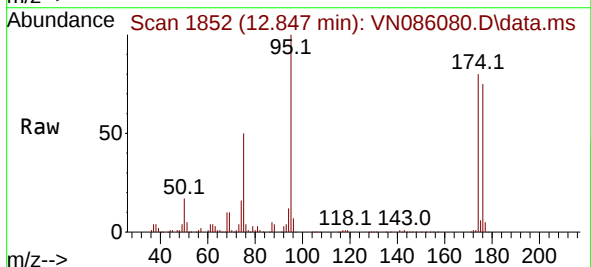
Instrument :
MSVOA_N
ClientSampleId :
TP-3

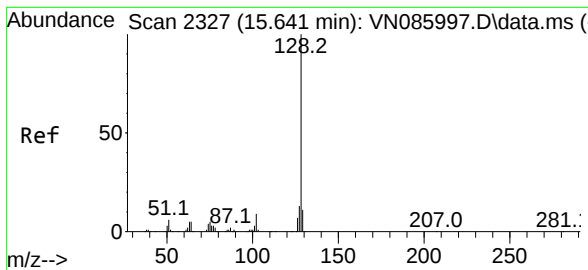
Tgt Ion: 75 Resp: 108289
Ion Ratio Lower Upper
75 100
77 1.3 83.7 251.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 60.105 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086080.D
Acq: 24 Mar 2025 18:25

Tgt Ion: 75 Resp: 108289
Ion Ratio Lower Upper
75 100
53 0.1 66.0 99.0#
89 0.0 36.9 55.3#





#95
Naphthalene
Concen: 0.415 ug/l
RT: 15.641 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN086080.D
Acq: 24 Mar 2025 18:25

Instrument :
MSVOA_N
ClientSampleId :
TP-3

Tgt Ion:	128	Resp:	4390
Ion	Ratio	Lower	Upper
128	100		
127	16.1	10.2	15.4#
129	13.6	9.0	13.6#

