

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072125\
 Data File : VN087375.D
 Acq On : 21 Jul 2025 13:34
 Operator : JC\MD
 Sample : PB168920TB
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB168920TB

Quant Time: Jul 22 03:07:07 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 17 02:56:13 2025
 Response via : Initial Calibration

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

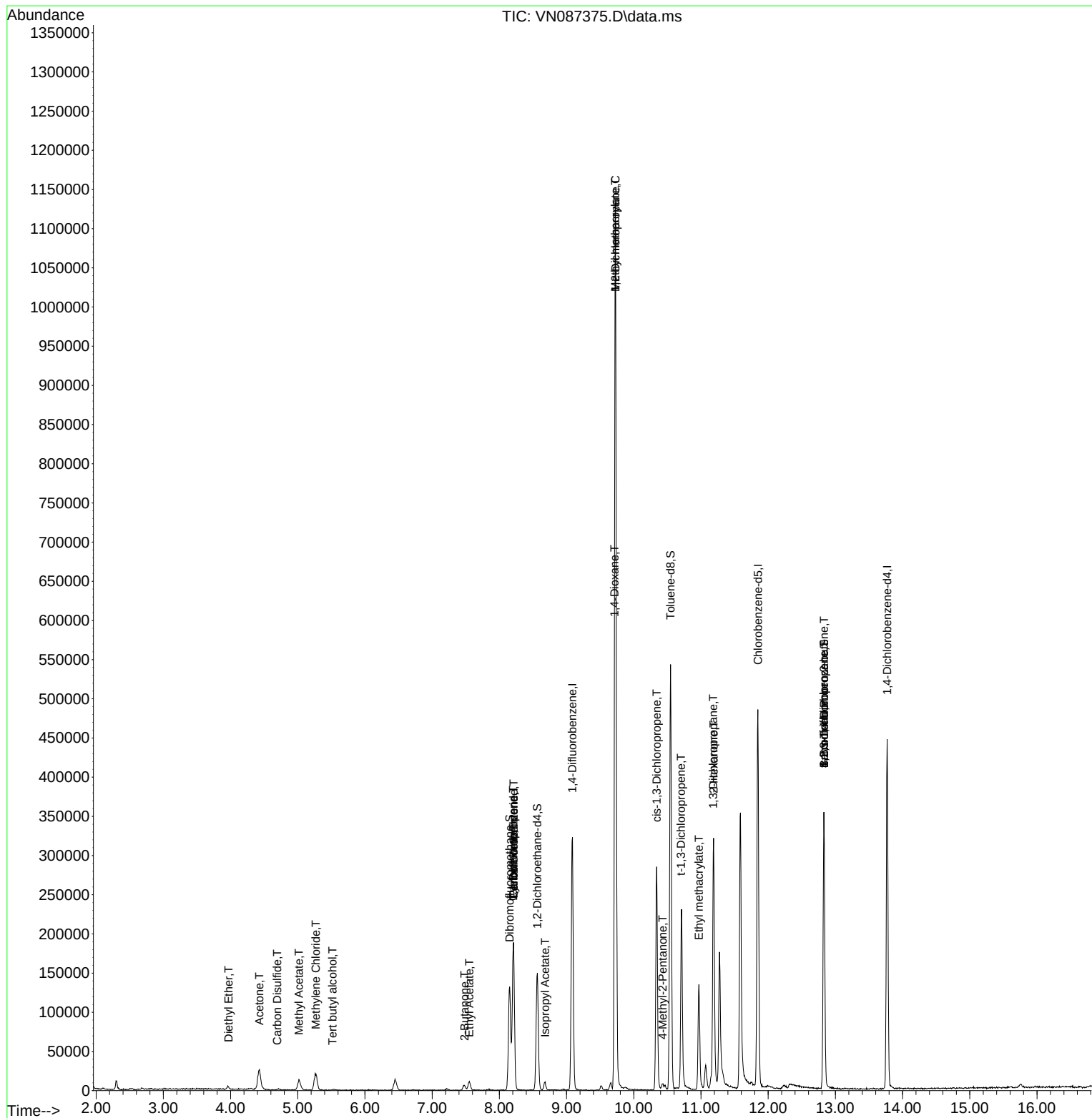
Internal Standards						
1) Pentafluorobenzene	8.212	168	137101	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.088	114	274148	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	269324	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	120973	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	126429	54.347	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 108.700%			
35) Dibromofluoromethane	8.153	113	96632	51.099	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.200%			
50) Toluene-d8	10.547	98	359201	53.249	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 106.500%			
62) 4-Bromofluorobenzene	12.829	95	122497	49.152	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 98.300%			
Target Compounds					Qvalue	
8) Diethyl Ether	3.971	74	1526	1.462	ug/l	58
11) Tert butyl alcohol	5.518	59	878	1.988	ug/l #	72
16) Acetone	4.430	43	50069	45.904	ug/l	95
17) Carbon Disulfide	4.694	76	1671	0.360	ug/l #	71
18) Methyl Acetate	5.018	43	26480	9.663	ug/l	100
20) Methylene Chloride	5.271	84	16298	8.305	ug/l #	80
25) 2-Butanone	7.482	43	11891	7.056	ug/l	99
31) Cyclohexane	8.206	56	3462	1.211	ug/l #	31
36) 1,1-Dichloropropene	8.206	75	11849	4.743	ug/l #	51
37) Ethyl Acetate	7.553	43	16896	4.682	ug/l #	96
38) Carbon Tetrachloride	8.212	117	15084	5.481	ug/l #	15
43) Isopropyl Acetate	8.682	43	11476	2.049	ug/l	95
45) 1,2-Dichloropropane	9.729	63	1238	0.603	ug/l #	41
48) Methyl methacrylate	9.723	41	102574	40.677	ug/l #	46
49) 1,4-Dioxane	9.712	88	62	1.605	ug/l #	11
51) 4-Methyl-2-Pentanone	10.429	43	4844	1.367	ug/l	90
53) t-1,3-Dichloropropene	10.706	75	657	0.210	ug/l #	45
54) cis-1,3-Dichloropropene	10.341	75	48820	15.092	ug/l #	67
56) Ethyl methacrylate	10.970	69	1075	0.963	ug/l #	1
57) 1,3-Dichloropropane	11.182	76	3341	0.972	ug/l #	42
59) 2-Hexanone	11.188	43	63152	26.868	ug/l #	49
71) Bromoform	12.829	173	908	0.547	ug/l #	1
76) 1,2,3-Trichloropropane	12.829	75	66469	24.503	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	66469	67.043	ug/l #	8

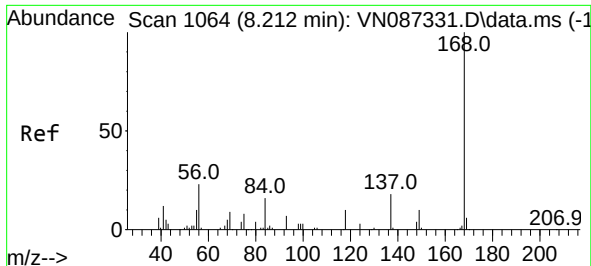
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
Quant Title : SW846 8260
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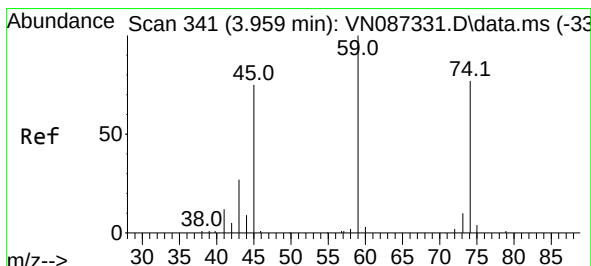
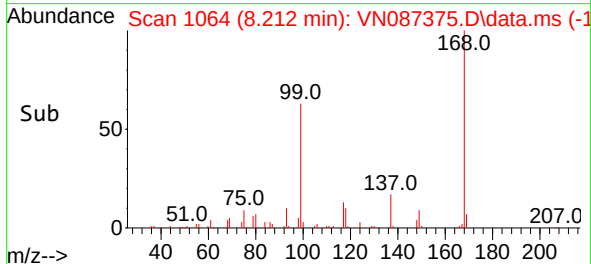
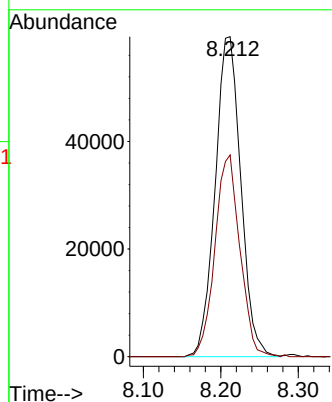
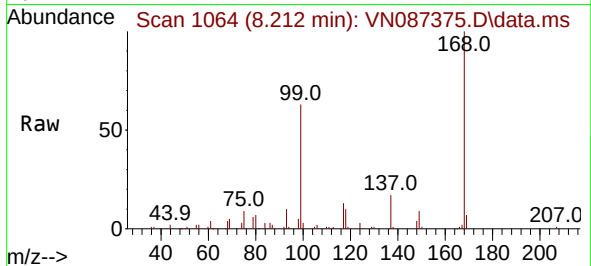




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. -0.000 min
Lab File: VN087375.D
Acq: 21 Jul 2025 13:34

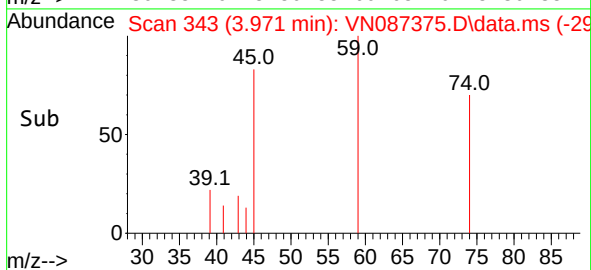
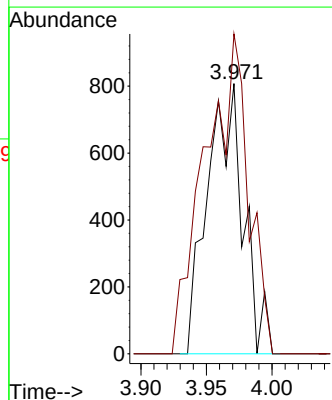
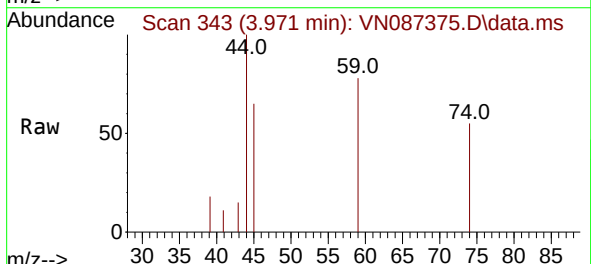
Instrument :
MSVOA_N
ClientSampleId :
PB168920TB

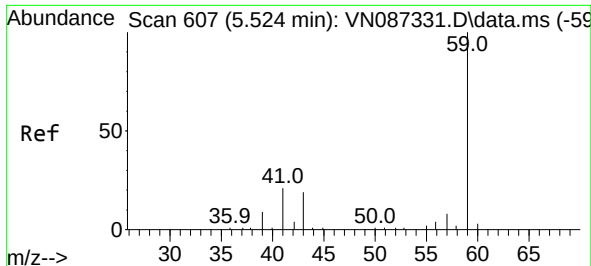
Tgt Ion:168 Resp: 137101
Ion Ratio Lower Upper
168 100
99 63.1 47.9 71.9



#8
Diethyl Ether
Concen: 1.462 ug/l
RT: 3.971 min Scan# 343
Delta R.T. 0.012 min
Lab File: VN087375.D
Acq: 21 Jul 2025 13:34

Tgt Ion: 74 Resp: 1526
Ion Ratio Lower Upper
74 100
45 143.7 50.8 152.5

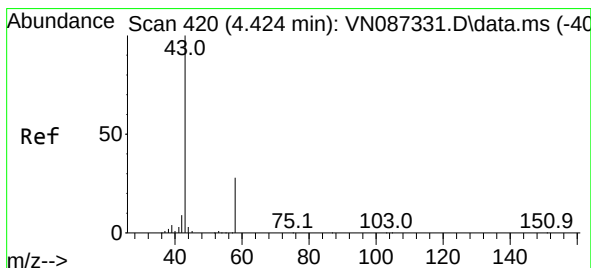
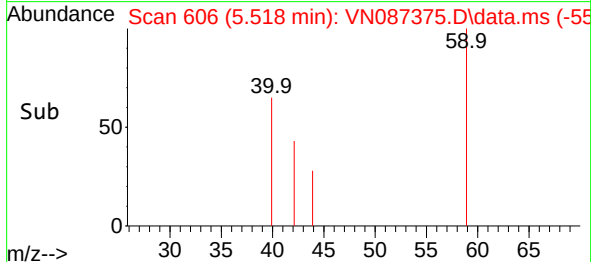
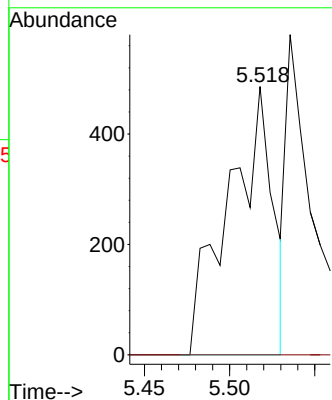
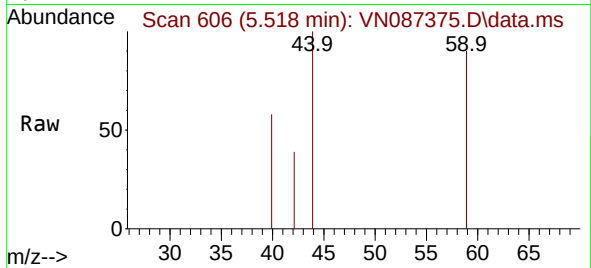




#11
Tert butyl alcohol
Concen: 1.988 ug/l
RT: 5.518 min Scan# 607
Delta R.T. -0.006 min
Lab File: VN087375.D
Acq: 21 Jul 2025 13:34

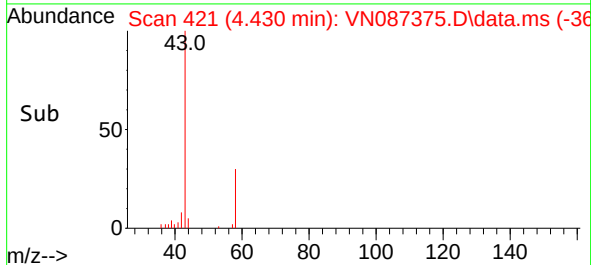
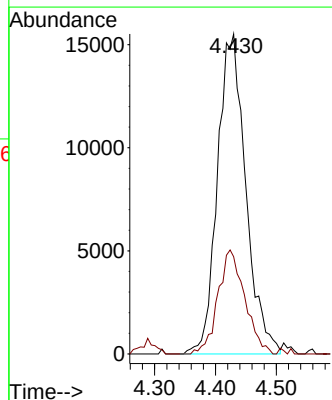
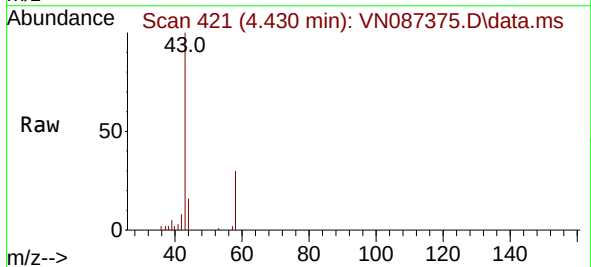
Instrument :
MSVOA_N
ClientSampleId :
PB168920TB

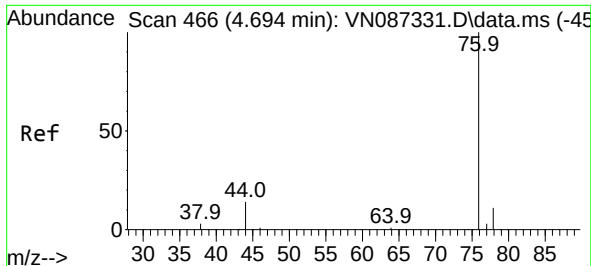
Tgt Ion: 59 Resp: 878
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



#16
Acetone
Concen: 45.904 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.006 min
Lab File: VN087375.D
Acq: 21 Jul 2025 13:34

Tgt Ion: 43 Resp: 50069
Ion Ratio Lower Upper
43 100
58 30.4 22.3 33.5

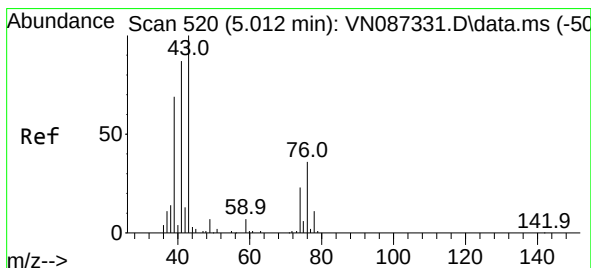
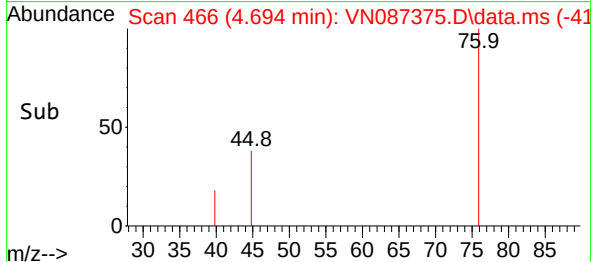
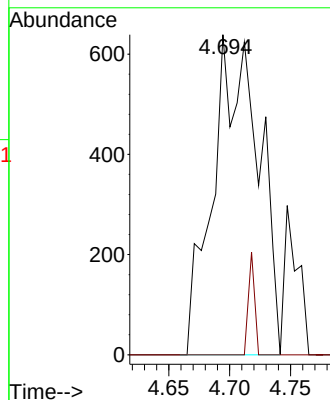
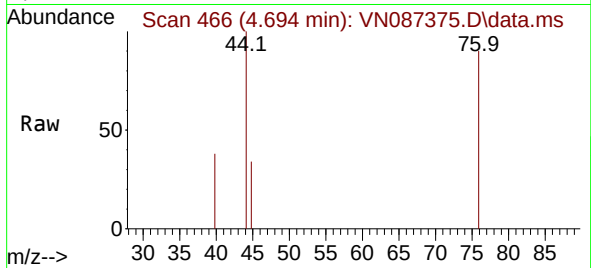




#17
Carbon Disulfide
Concen: 0.360 ug/l
RT: 4.694 min Scan# 466
Delta R.T. 0.000 min
Lab File: VN087375.D
Acq: 21 Jul 2025 13:34

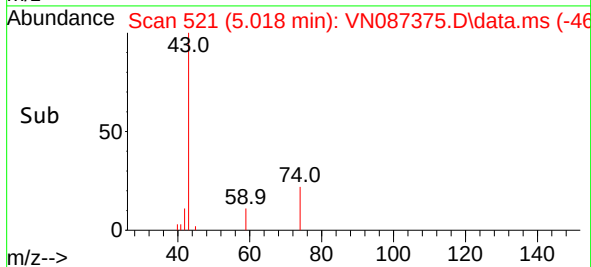
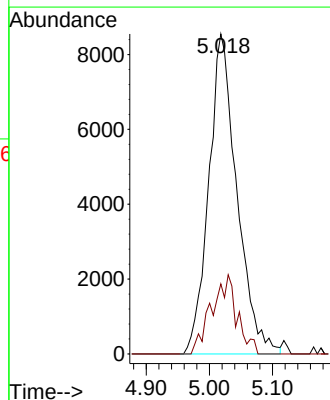
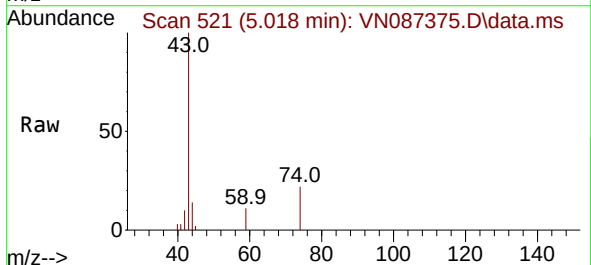
Instrument :
MSVOA_N
ClientSampleId :
PB168920TB

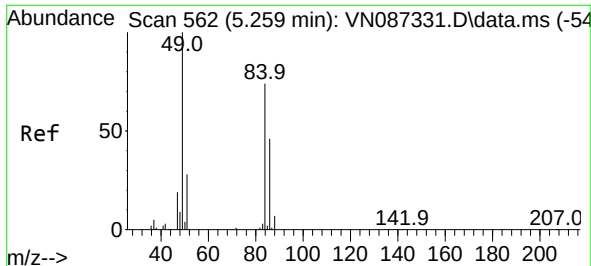
Tgt Ion: 76 Resp: 1671
Ion Ratio Lower Upper
76 100
78 0.0 8.6 13.0#



#18
Methyl Acetate
Concen: 9.663 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.006 min
Lab File: VN087375.D
Acq: 21 Jul 2025 13:34

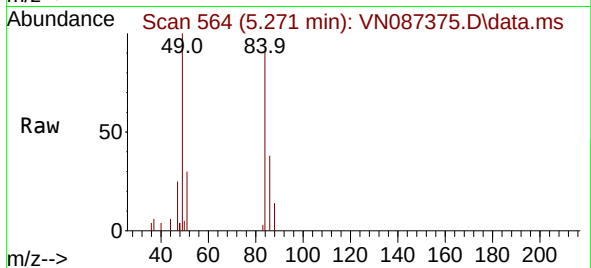
Tgt Ion: 43 Resp: 26480
Ion Ratio Lower Upper
43 100
74 22.4 17.8 26.6



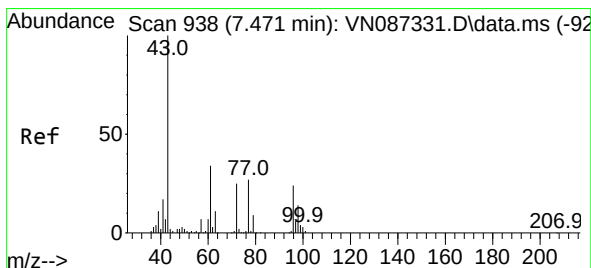
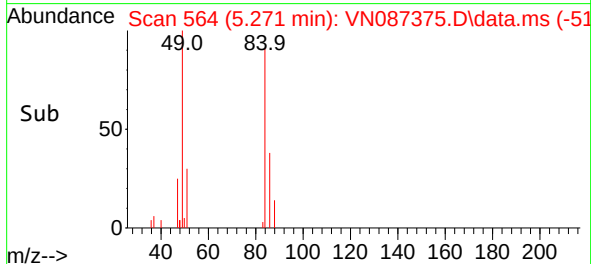
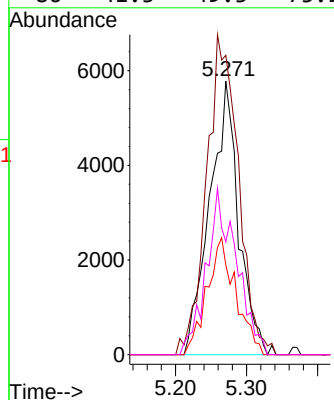


#20
Methylene Chloride
Concen: 8.305 ug/l
RT: 5.271 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN087375.D
Acq: 21 Jul 2025 13:34

Instrument :
MSVOA_N
ClientSampleId :
PB168920TB

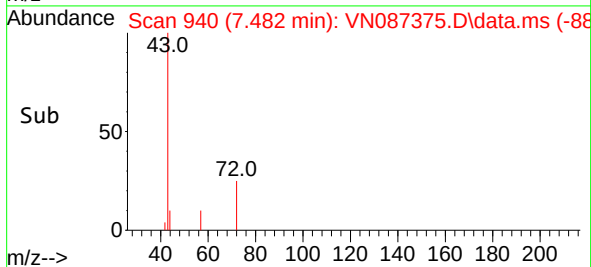
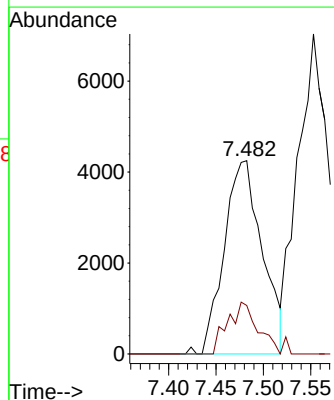
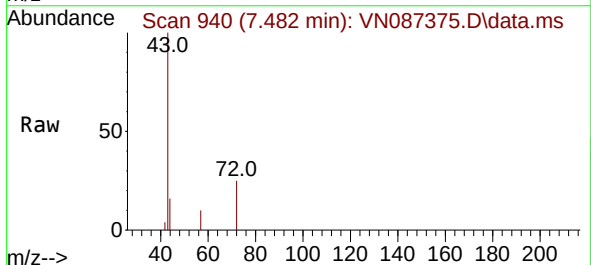


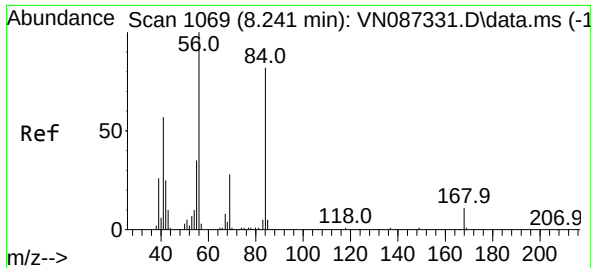
Tgt Ion: 84 Resp: 16298
Ion Ratio Lower Upper
84 100
49 109.4 107.5 161.3
51 32.9 30.2 45.2
86 41.3 49.3 73.9#



#25
2-Butanone
Concen: 7.056 ug/l
RT: 7.482 min Scan# 940
Delta R.T. 0.012 min
Lab File: VN087375.D
Acq: 21 Jul 2025 13:34

Tgt Ion: 43 Resp: 11891
Ion Ratio Lower Upper
43 100
72 25.1 19.6 29.4

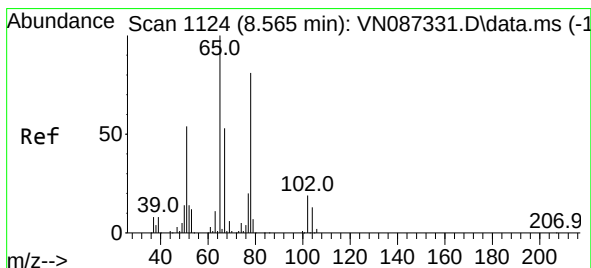
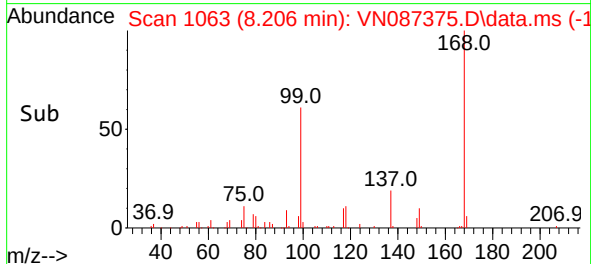
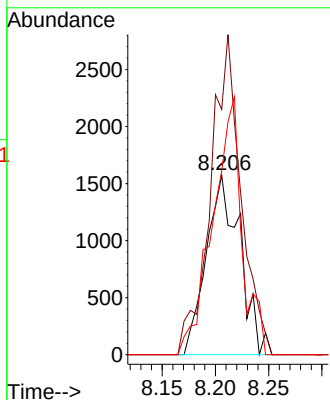
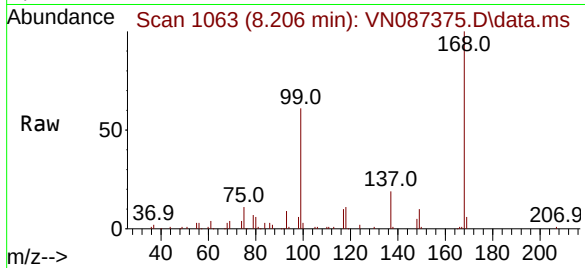




#31
Cyclohexane
Concen: 1.211 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.035 min
Lab File: VN087375.D
Acq: 21 Jul 2025 13:34

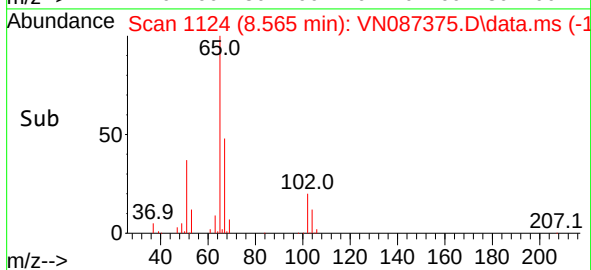
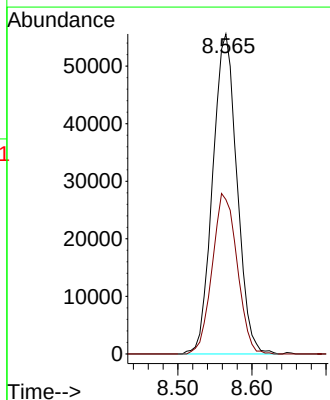
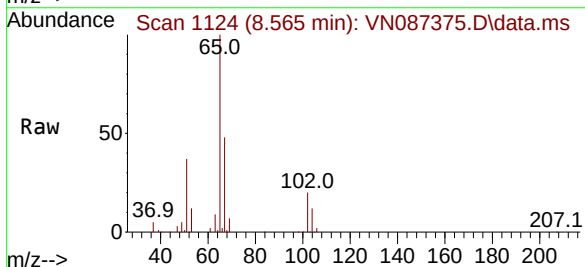
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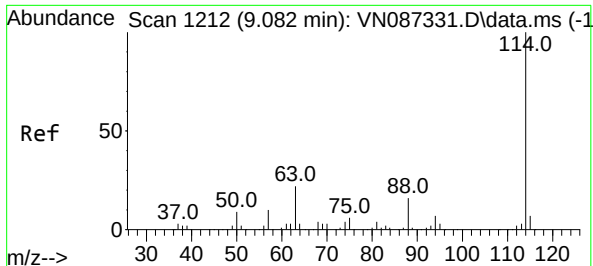
Tgt Ion: 56 Resp: 3462
Ion Ratio Lower Upper
56 100
69 136.7 22.7 34.1#
84 102.5 65.8 98.6#



#33
1,2-Dichloroethane-d4
Concen: 54.347 ug/l
RT: 8.565 min Scan# 1124
Delta R.T. 0.000 min
Lab File: VN087375.D
Acq: 21 Jul 2025 13:34

Tgt Ion: 65 Resp: 126429
Ion Ratio Lower Upper
65 100
67 51.5 0.0 104.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.088 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN087375.D

Acq: 21 Jul 2025 13:34

Instrument :

MSVOA_N

ClientSampleId :

PB168920TB

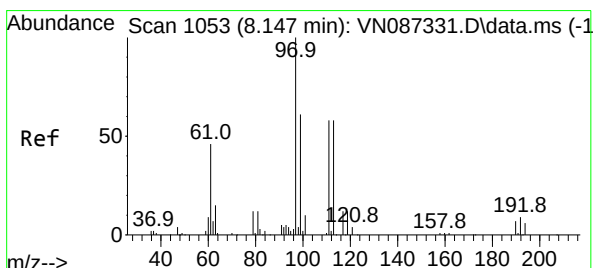
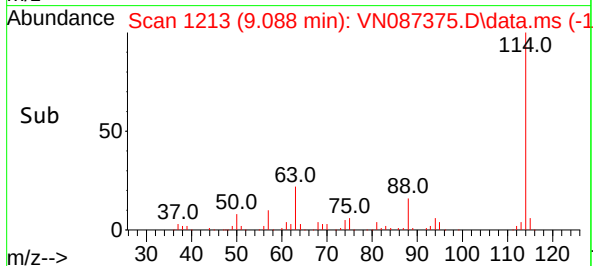
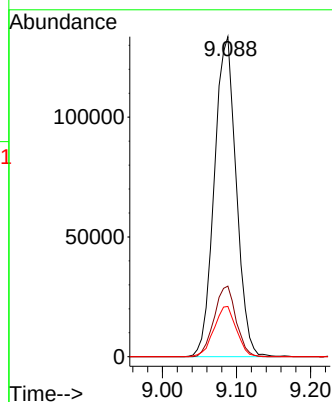
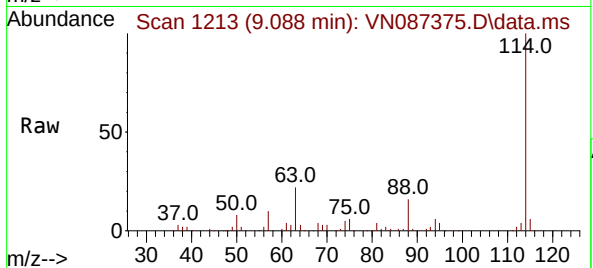
Tgt Ion:114 Resp: 274148

Ion Ratio Lower Upper

114 100

63 22.1 0.0 44.6

88 15.7 0.0 32.8



#35

Dibromofluoromethane

Concen: 51.099 ug/l

RT: 8.153 min Scan# 1054

Delta R.T. 0.006 min

Lab File: VN087375.D

Acq: 21 Jul 2025 13:34

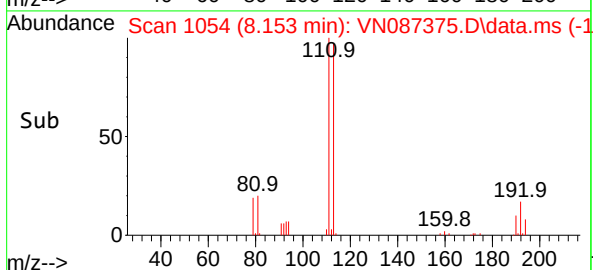
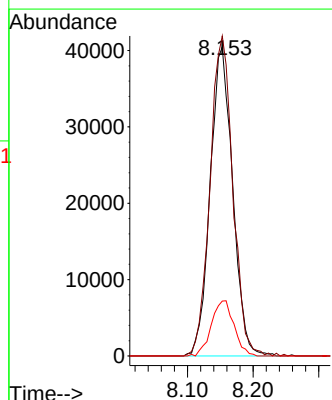
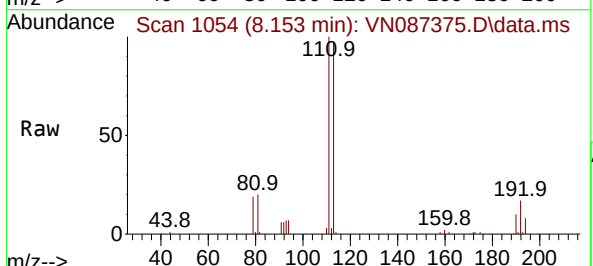
Tgt Ion:113 Resp: 96632

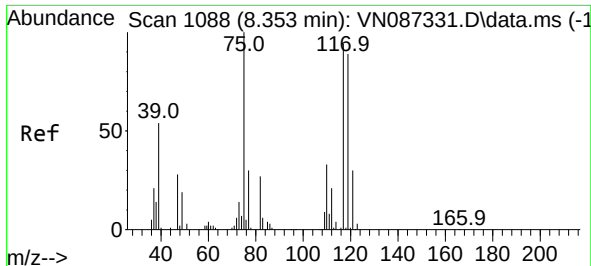
Ion Ratio Lower Upper

113 100

111 104.5 82.5 123.7

192 18.0 13.7 20.5





#36

1,1-Dichloropropene

Concen: 4.743 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.147 min

Lab File: VN087375.D

Acq: 21 Jul 2025 13:34

Instrument :

MSVOA_N

ClientSampleId :

PB168920TB

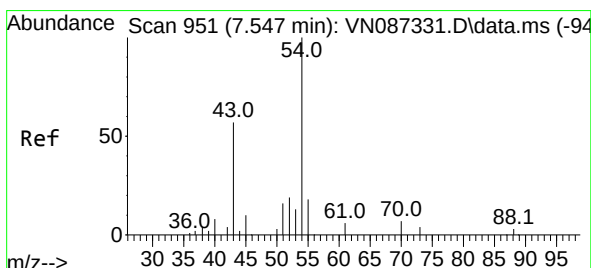
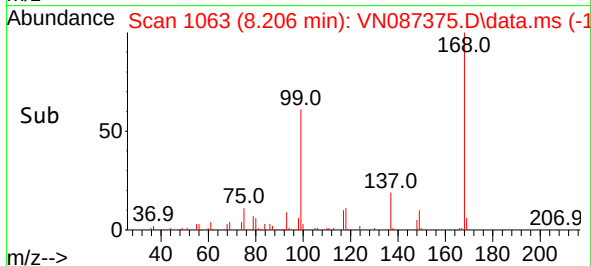
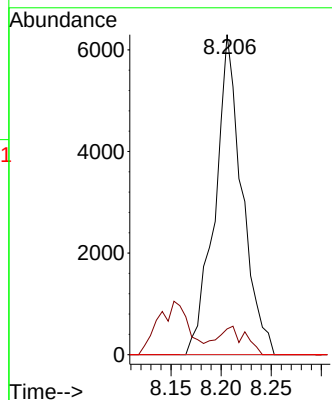
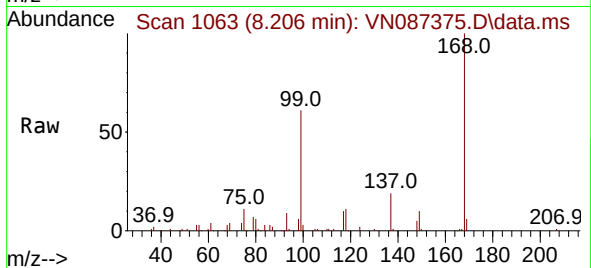
Tgt Ion: 75 Resp: 11849

Ion Ratio Lower Upper

75 100

110 9.3 16.7 50.1#

77 0.0 25.2 37.8#



#37

Ethyl Acetate

Concen: 4.682 ug/l

RT: 7.553 min Scan# 952

Delta R.T. 0.006 min

Lab File: VN087375.D

Acq: 21 Jul 2025 13:34

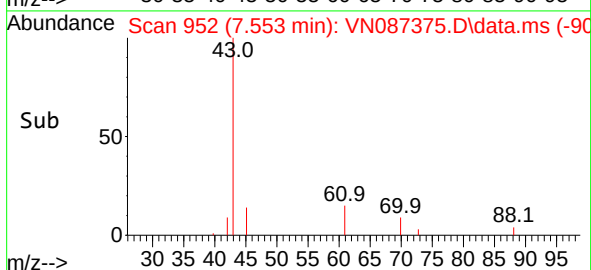
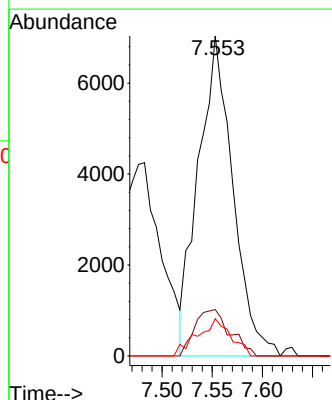
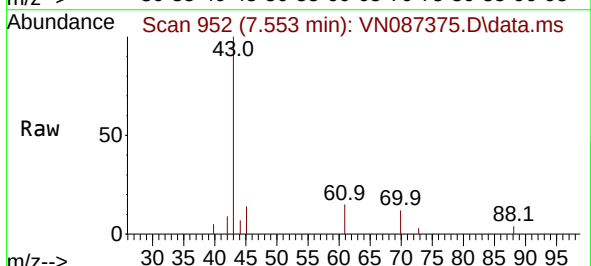
Tgt Ion: 43 Resp: 16896

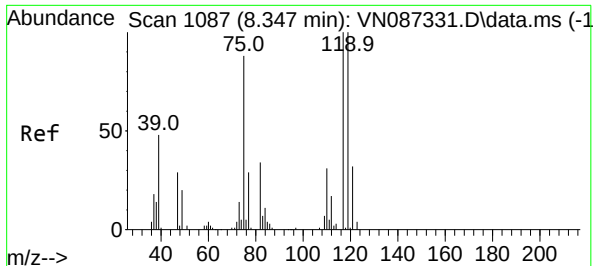
Ion Ratio Lower Upper

43 100

61 14.8 10.9 16.3

70 11.1 7.4 11.0#

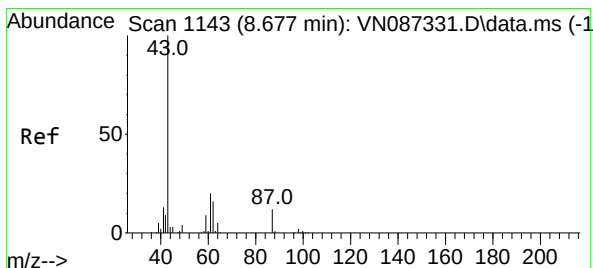
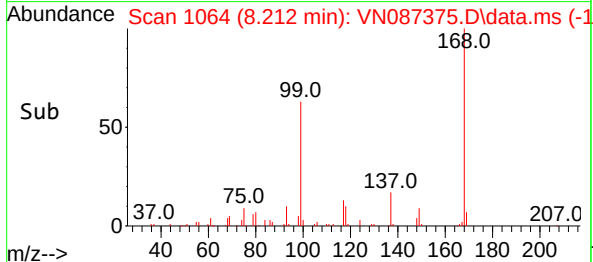
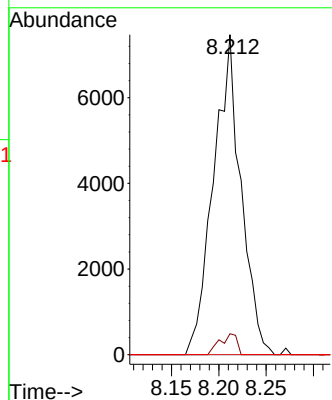
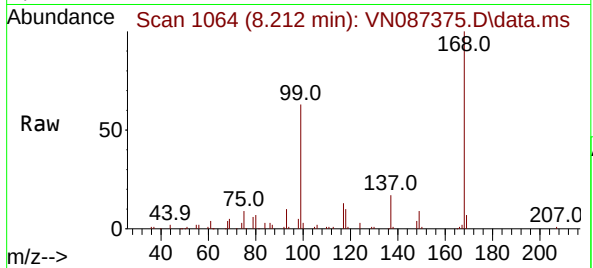




#38
Carbon Tetrachloride
Concen: 5.481 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. -0.135 min
Lab File: VN087375.D
Acq: 21 Jul 2025 13:34

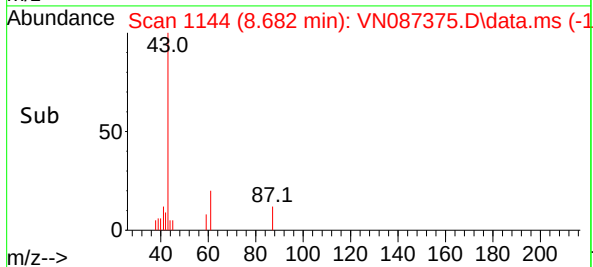
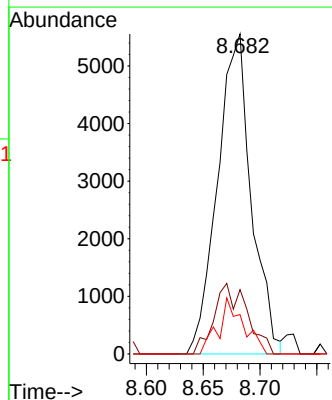
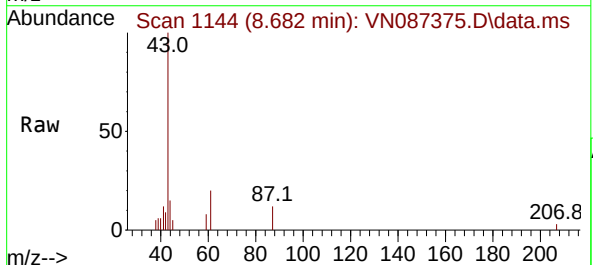
Instrument :
MSVOA_N
ClientSampleId :
PB168920TB

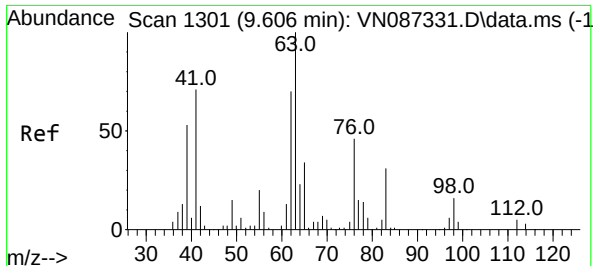
Tgt Ion:117 Resp: 15084
Ion Ratio Lower Upper
117 100
119 6.5 80.2 120.2#
121 0.0 25.4 38.2#



#43
Isopropyl Acetate
Concen: 2.049 ug/l
RT: 8.682 min Scan# 1144
Delta R.T. 0.005 min
Lab File: VN087375.D
Acq: 21 Jul 2025 13:34

Tgt Ion: 43 Resp: 11476
Ion Ratio Lower Upper
43 100
61 21.6 19.8 29.8
87 13.0 9.8 14.6





#45

1,2-Dichloropropane

Concen: 0.603 ug/l

RT: 9.729 min Scan# 11

Delta R.T. 0.123 min

Lab File: VN087375.D

Acq: 21 Jul 2025 13:34

Instrument :

MSVOA_N

ClientSampleId :

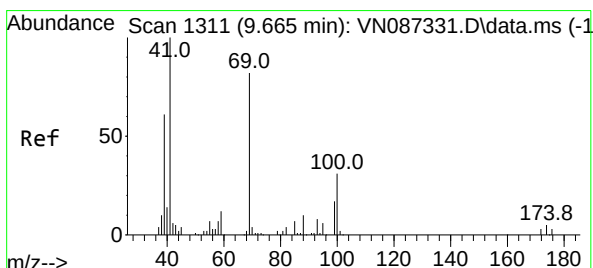
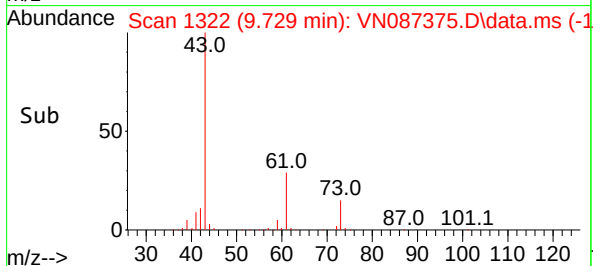
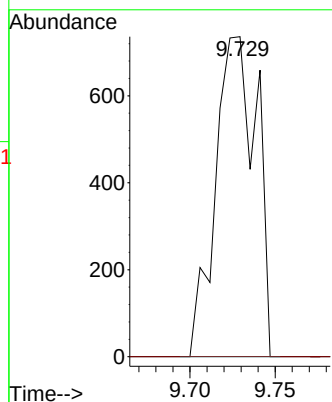
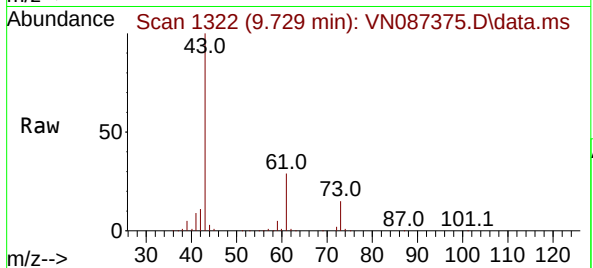
PB168920TB

Tgt Ion: 63 Resp: 1238

Ion Ratio Lower Upper

63 100

65 0.0 27.0 40.4#



#48

Methyl methacrylate

Concen: 40.677 ug/l

RT: 9.723 min Scan# 1321

Delta R.T. 0.059 min

Lab File: VN087375.D

Acq: 21 Jul 2025 13:34

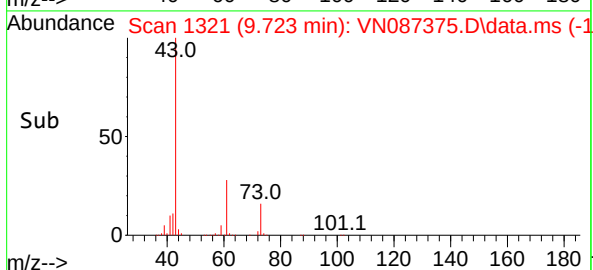
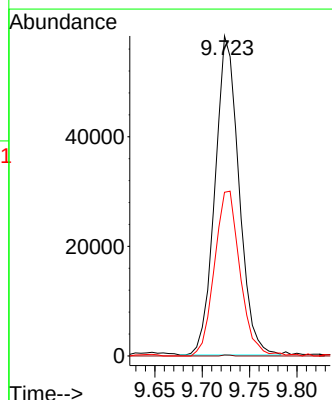
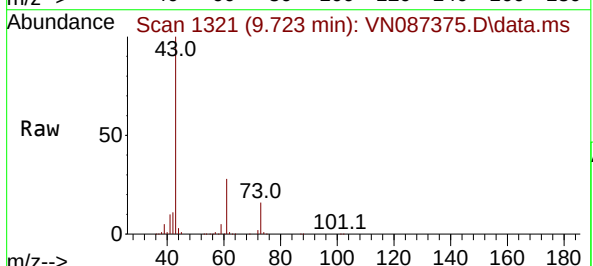
Tgt Ion: 41 Resp: 102574

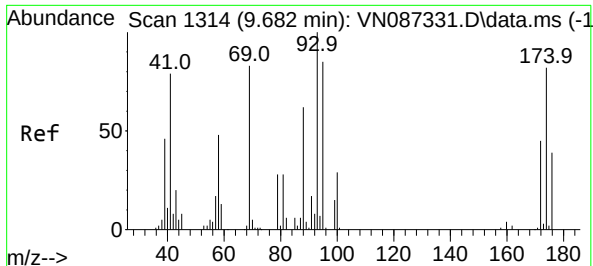
Ion Ratio Lower Upper

41 100

69 0.1 64.1 96.1#

39 55.3 45.5 68.3

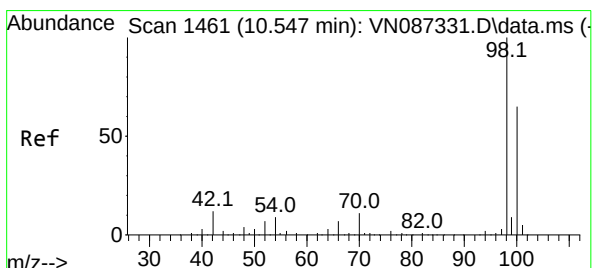
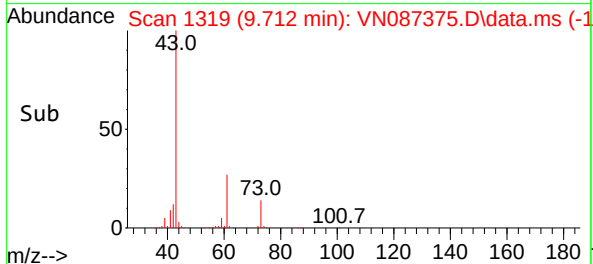
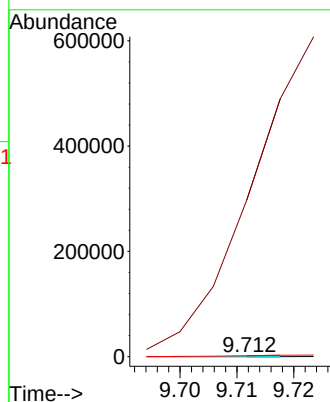
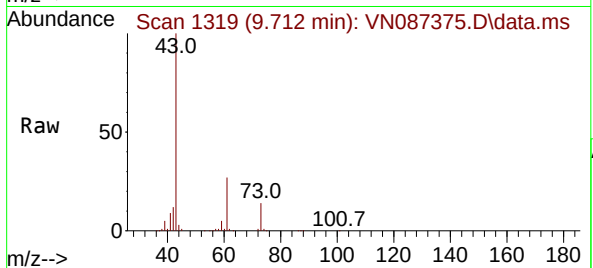




#49
1,4-Dioxane
Concen: 1.605 ug/l
RT: 9.712 min Scan# 1314
Delta R.T. 0.030 min
Lab File: VN087375.D
Acq: 21 Jul 2025 13:34

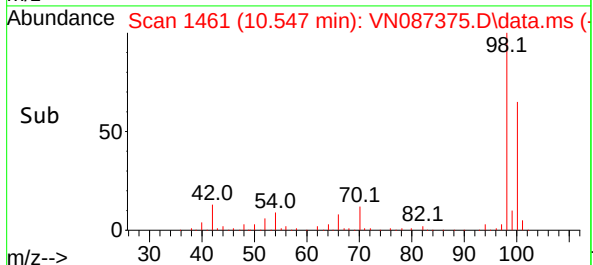
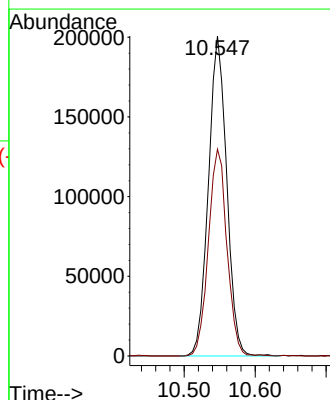
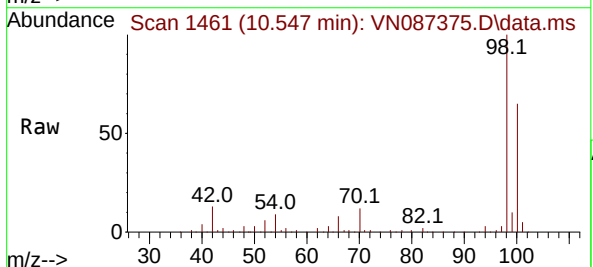
Instrument :
MSVOA_N
ClientSampleId :
PB168920TB

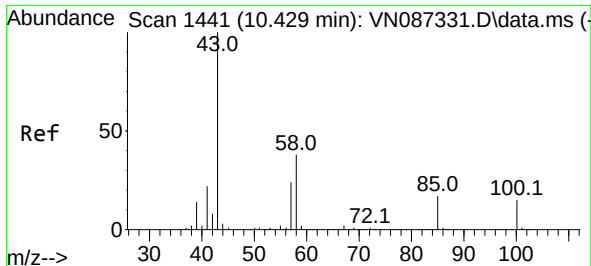
Tgt Ion: 88 Resp: 62
Ion Ratio Lower Upper
88 100
43 0.0 0.0 0.0
58 0.0 61.1 91.7#



#50
Toluene-d8
Concen: 53.249 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN087375.D
Acq: 21 Jul 2025 13:34

Tgt Ion: 98 Resp: 359201
Ion Ratio Lower Upper
98 100
100 65.3 52.1 78.1

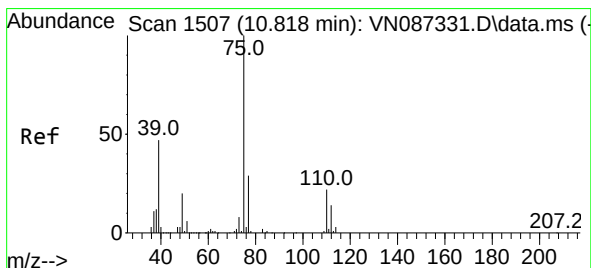
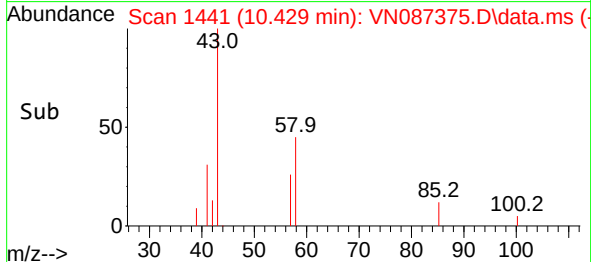
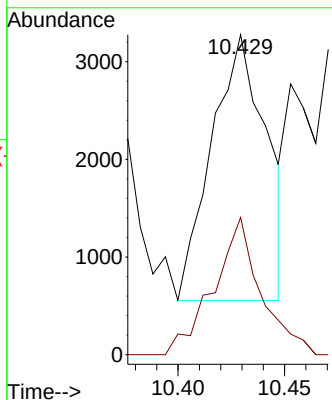
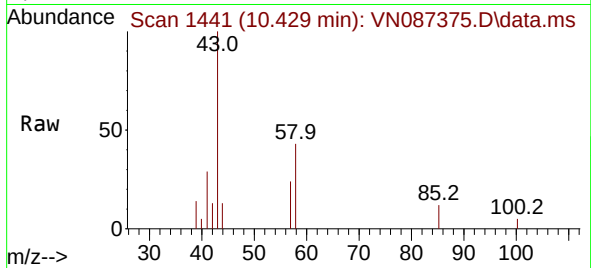




#51
4-Methyl-2-Pentanone
Concen: 1.367 ug/l
RT: 10.429 min Scan# 1441
Delta R.T. 0.000 min
Lab File: VN087375.D
Acq: 21 Jul 2025 13:34

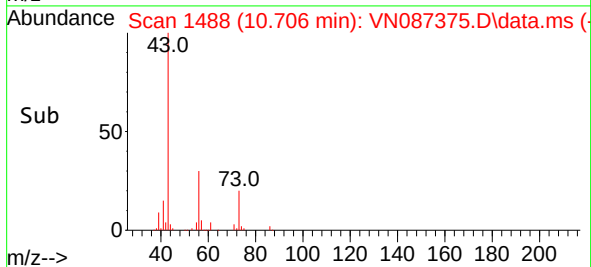
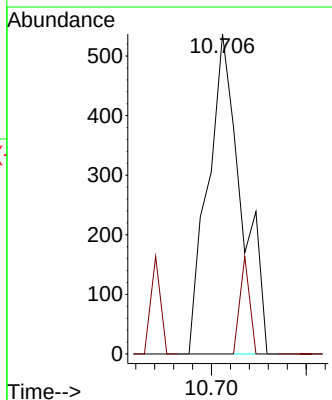
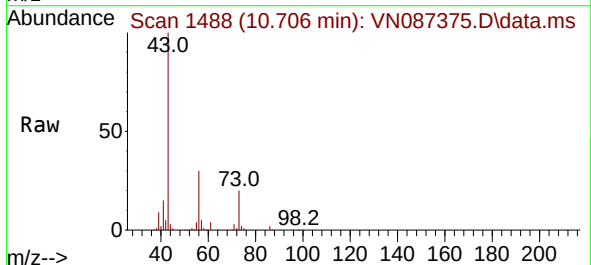
Instrument :
MSVOA_N
ClientSampleId :
PB168920TB

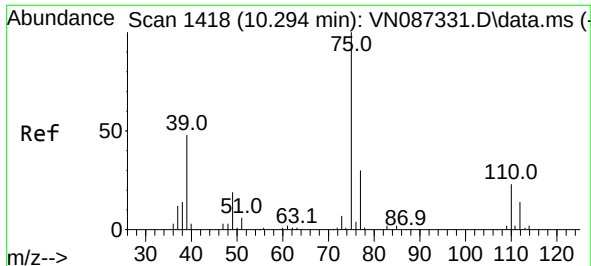
Tgt Ion: 43 Resp: 4844
Ion Ratio Lower Upper
43 100
58 44.7 30.8 46.2



#53
t-1,3-Dichloropropene
Concen: 0.210 ug/l
RT: 10.706 min Scan# 1488
Delta R.T. -0.112 min
Lab File: VN087375.D
Acq: 21 Jul 2025 13:34

Tgt Ion: 75 Resp: 657
Ion Ratio Lower Upper
75 100
77 0.0 23.6 35.4#

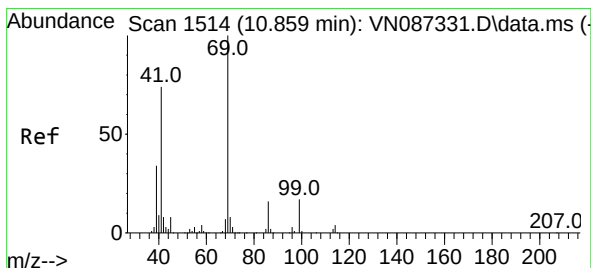
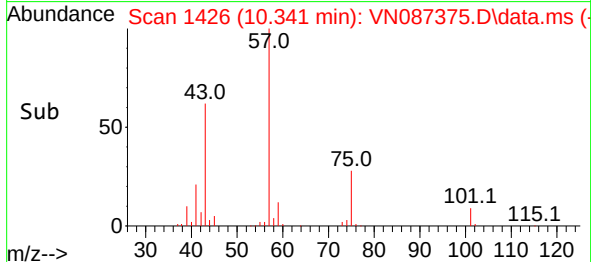
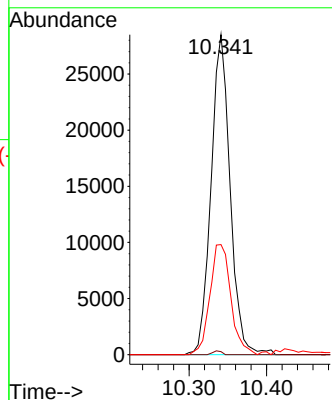
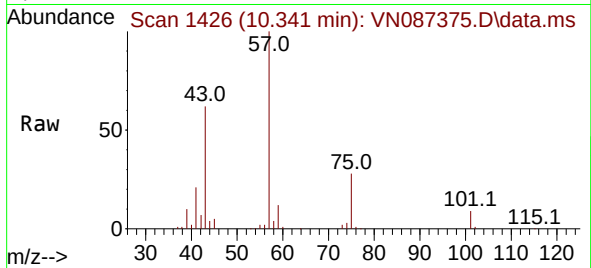




#54
 cis-1,3-Dichloropropene
 Concen: 15.092 ug/l
 RT: 10.341 min Scan# 1418
 Delta R.T. 0.047 min
 Lab File: VN087375.D
 Acq: 21 Jul 2025 13:34

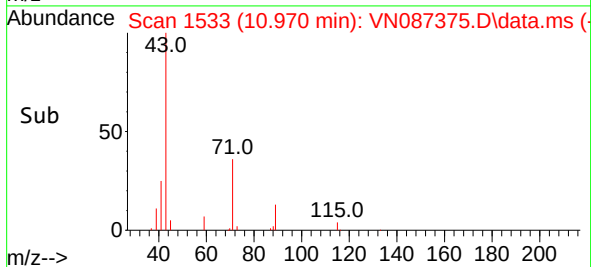
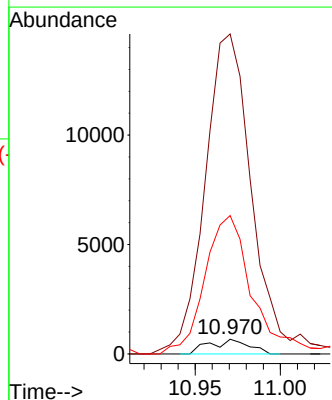
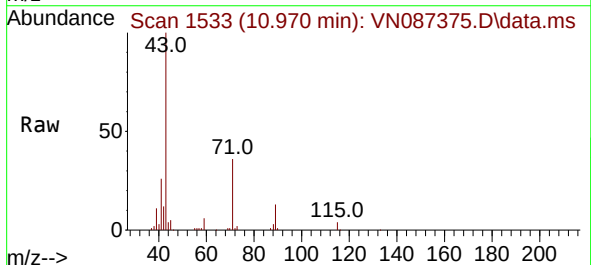
Instrument :
 MSVOA_N
 ClientSampleId :
 PB168920TB

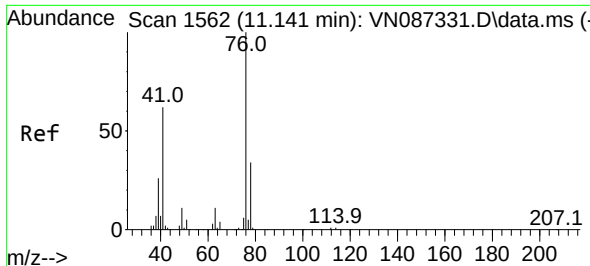
Tgt Ion: 75 Resp: 48820
 Ion Ratio Lower Upper
 75 100
 77 1.0 24.2 36.2#
 39 34.4 38.4 57.6#



#56
 Ethyl methacrylate
 Concen: 0.963 ug/l
 RT: 10.970 min Scan# 1533
 Delta R.T. 0.111 min
 Lab File: VN087375.D
 Acq: 21 Jul 2025 13:34

Tgt Ion: 69 Resp: 1075
 Ion Ratio Lower Upper
 69 100
 41 2610.5 55.1 82.7#
 39 1135.6 27.9 41.9#

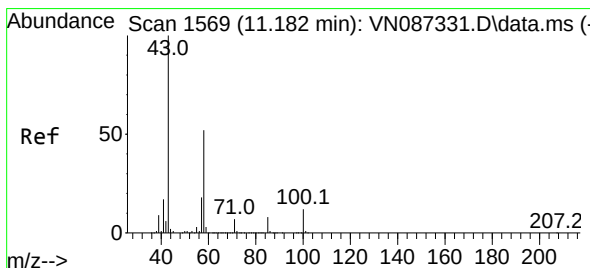
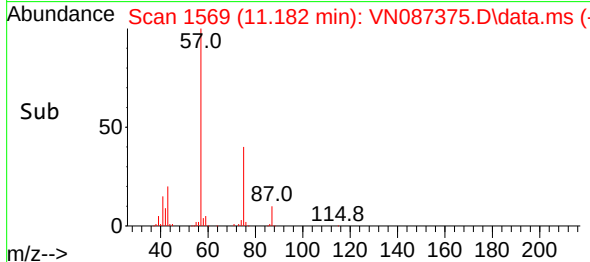
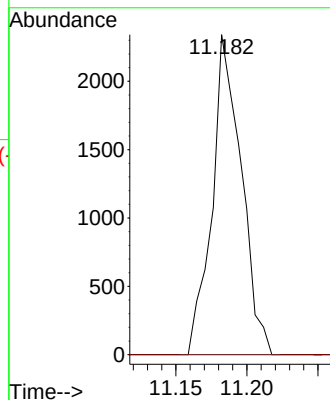
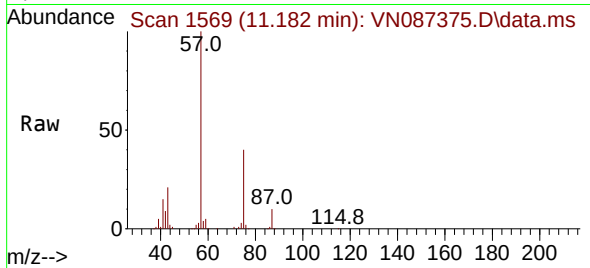




#57
1,3-Dichloropropane
Concen: 0.972 ug/l
RT: 11.182 min Scan# 1569
Delta R.T. 0.041 min
Lab File: VN087375.D
Acq: 21 Jul 2025 13:34

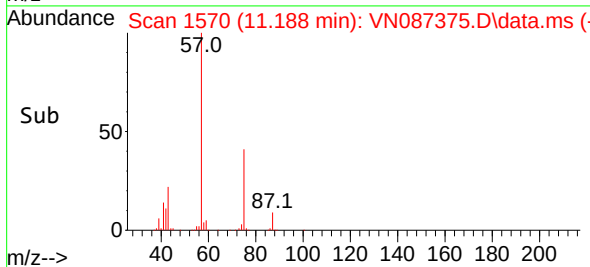
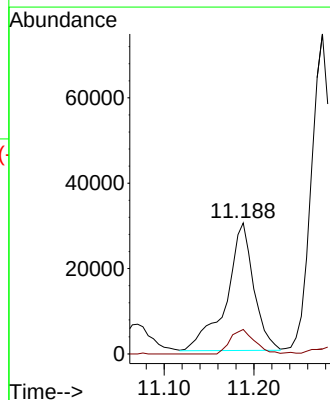
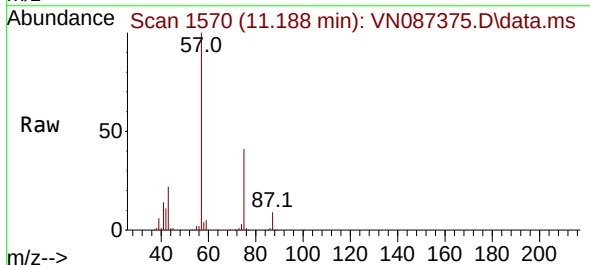
Instrument :
MSVOA_N
ClientSampleId :
PB168920TB

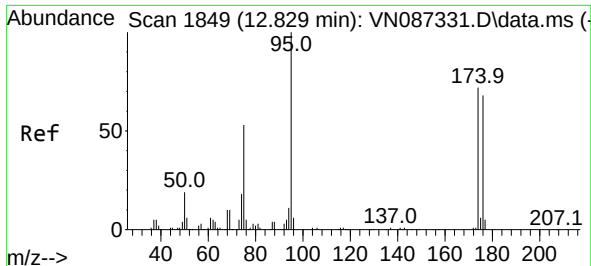
Tgt Ion: 76 Resp: 3341
Ion Ratio Lower Upper
76 100
78 0.0 26.0 39.0#



#59
2-Hexanone
Concen: 26.868 ug/l
RT: 11.188 min Scan# 1570
Delta R.T. 0.006 min
Lab File: VN087375.D
Acq: 21 Jul 2025 13:34

Tgt Ion: 43 Resp: 63152
Ion Ratio Lower Upper
43 100
58 17.2 26.7 80.0#

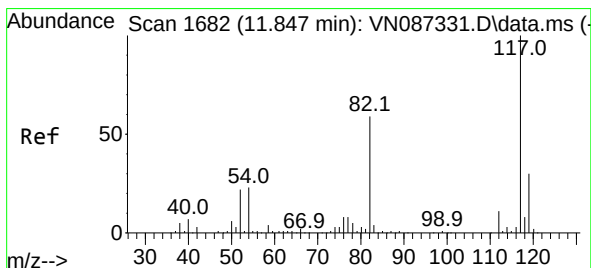
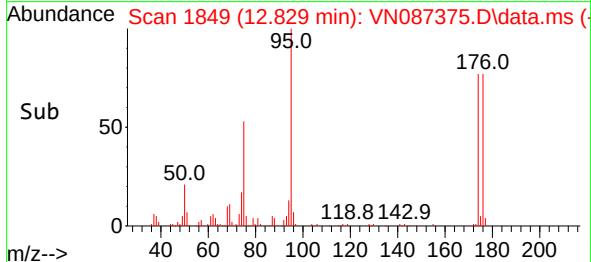
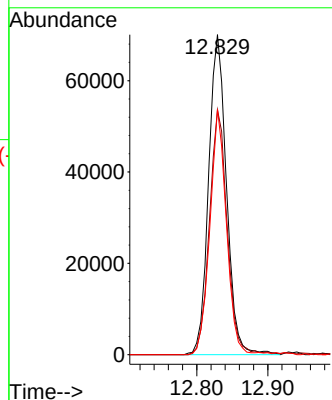
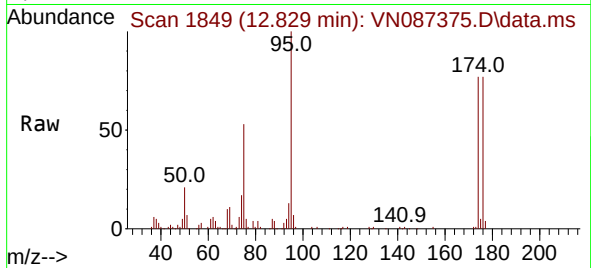




#62
4-Bromofluorobenzene
Concen: 49.152 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.000 min
Lab File: VN087375.D
Acq: 21 Jul 2025 13:34

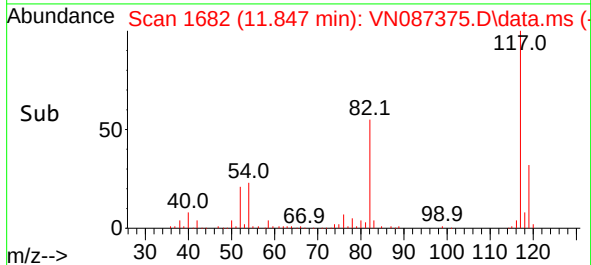
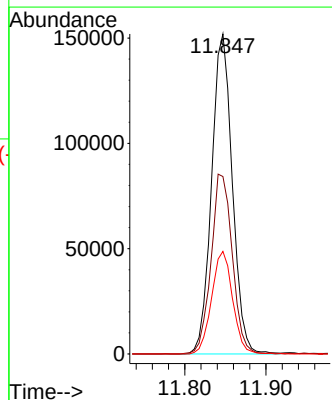
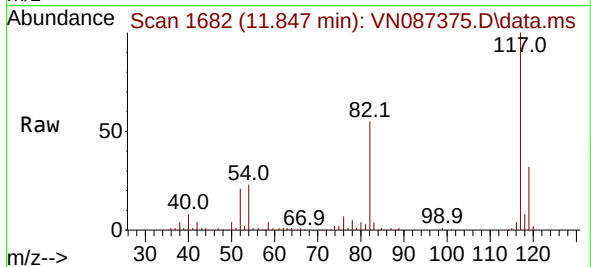
Instrument :
MSVOA_N
ClientSampleId :
PB168920TB

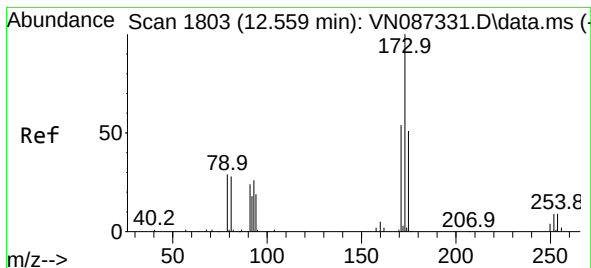
Tgt Ion: 95 Resp: 122497
Ion Ratio Lower Upper
95 100
174 76.6 0.0 149.4
176 71.2 0.0 141.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 1682
Delta R.T. -0.000 min
Lab File: VN087375.D
Acq: 21 Jul 2025 13:34

Tgt Ion: 117 Resp: 269324
Ion Ratio Lower Upper
117 100
82 55.4 47.4 71.2
119 32.1 23.8 35.8





#71

Bromoform

Concen: 0.547 ug/l

RT: 12.829 min Scan# 11

Delta R.T. 0.271 min

Lab File: VN087375.D

Acq: 21 Jul 2025 13:34

Instrument :

MSVOA_N

ClientSampleId :

PB168920TB

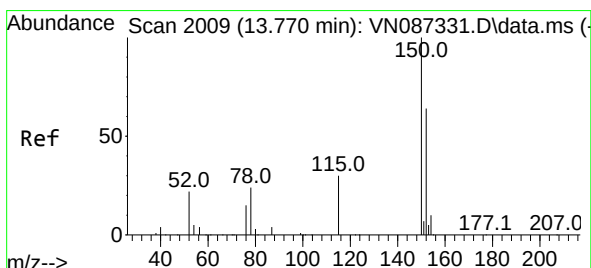
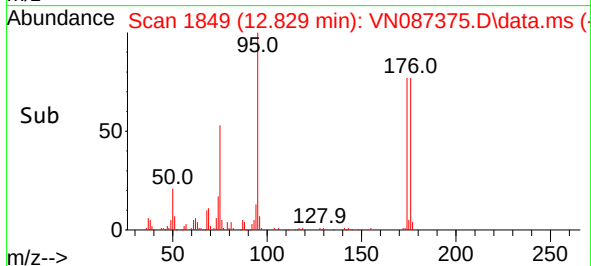
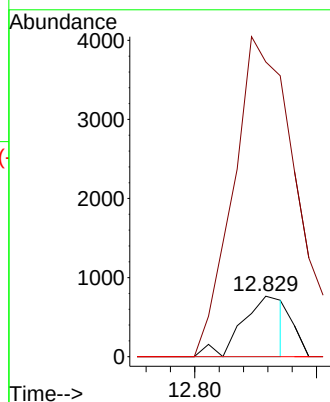
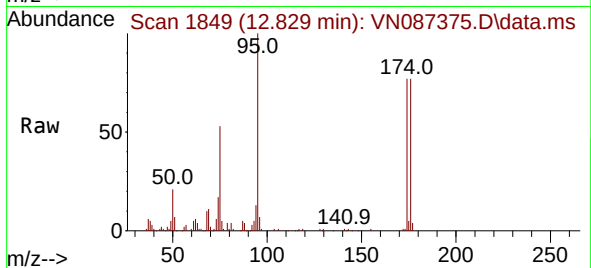
Tgt Ion:173 Resp: 908

Ion Ratio Lower Upper

173 100

175 608.1 24.1 72.3#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.770 min Scan# 2009

Delta R.T. 0.000 min

Lab File: VN087375.D

Acq: 21 Jul 2025 13:34

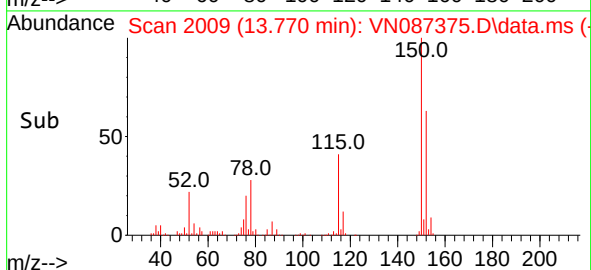
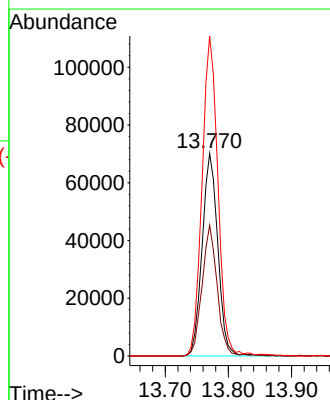
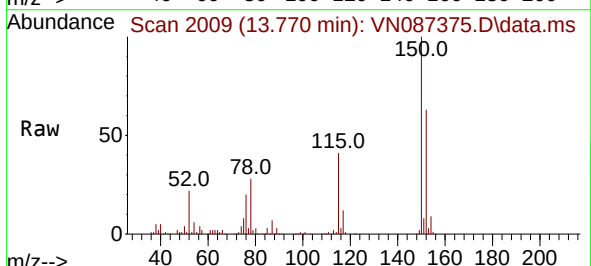
Tgt Ion:152 Resp: 120973

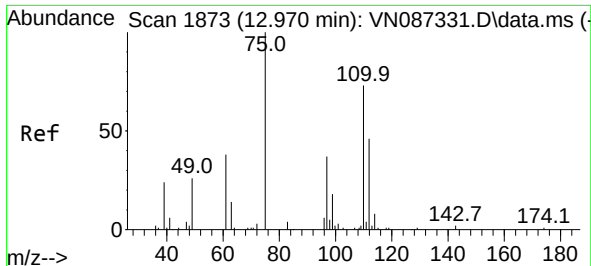
Ion Ratio Lower Upper

152 100

115 62.5 31.1 93.5

150 159.0 0.0 349.0

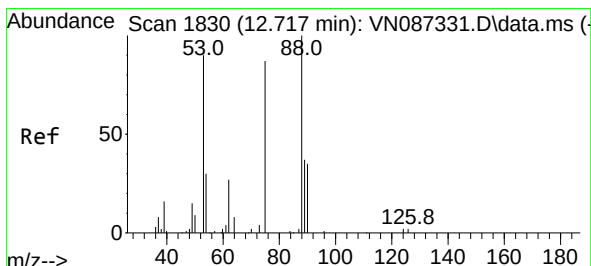
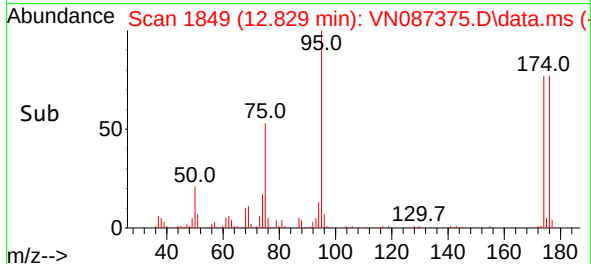
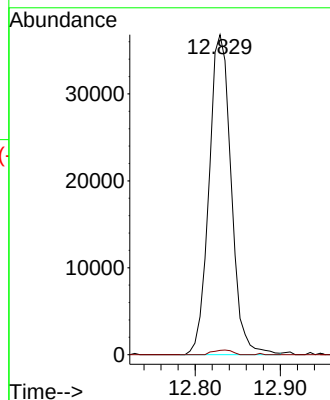
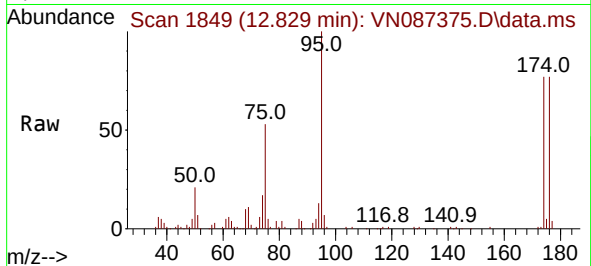




#76
 1,2,3-Trichloropropane
 Concen: 24.503 ug/l
 RT: 12.829 min Scan# 1849
 Delta R.T. -0.141 min
 Lab File: VN087375.D
 Acq: 21 Jul 2025 13:34

Instrument :
 MSVOA_N
 ClientSampleId :
 PB168920TB

Tgt Ion: 75 Resp: 66469
 Ion Ratio Lower Upper
 75 100
 77 1.3 94.5 283.6#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 67.043 ug/l
 RT: 12.829 min Scan# 1849
 Delta R.T. 0.112 min
 Lab File: VN087375.D
 Acq: 21 Jul 2025 13:34

Tgt Ion: 75 Resp: 66469
 Ion Ratio Lower Upper
 75 100
 53 0.1 83.5 125.3#
 89 0.2 38.4 57.6#

