

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051325\
 Data File : VN086602.D
 Acq On : 13 May 2025 15:23
 Operator : JC\MD
 Sample : PB167964TB
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167964TB

Quant Time: May 14 01:45:40 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 04:19:23 2025
 Response via : Initial Calibration

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

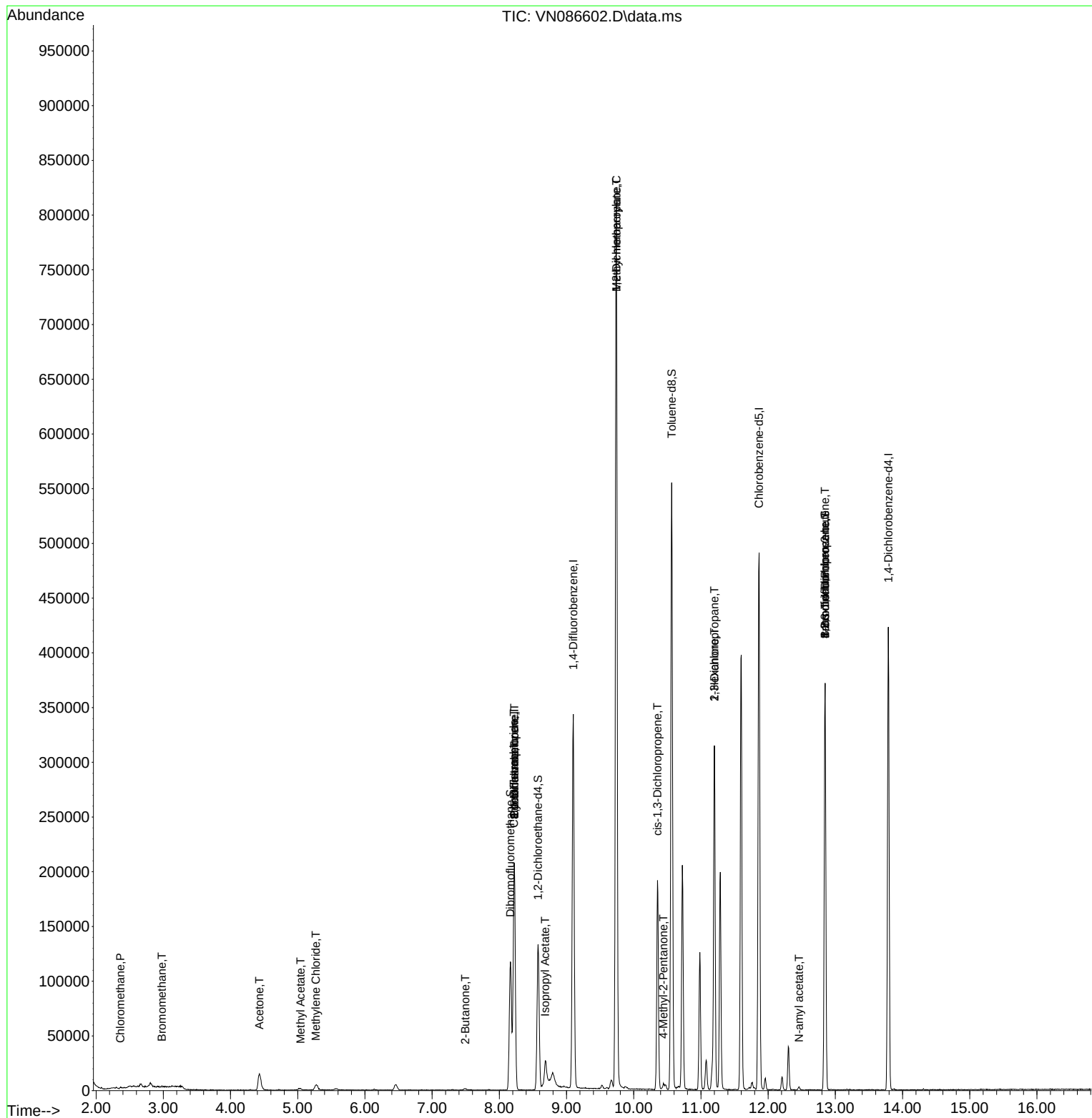
Internal Standards						
1) Pentafluorobenzene	8.224	168	153904	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	295794	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	287951	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	115835	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	110800	49.647	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	99.300%		
35) Dibromofluoromethane	8.165	113	88448	64.428	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	128.860%#		
50) Toluene-d8	10.565	98	389475	53.084	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	106.160%		
62) 4-Bromofluorobenzene	12.847	95	133105	49.738	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	99.480%		
Target Compounds						
						Qvalue
3) Chloromethane	2.359	50	677	0.255	ug/l	98
5) Bromomethane	2.977	94	317	0.279	ug/l	85
16) Acetone	4.430	43	30266	34.301	ug/l	98
18) Methyl Acetate	5.042	43	3295	1.230	ug/l #	72
20) Methylene Chloride	5.271	84	4371	2.119	ug/l #	89
25) 2-Butanone	7.494	43	2704	1.947	ug/l	97
31) Cyclohexane	8.224	56	3388	0.937	ug/l #	7
36) 1,1-Dichloropropene	8.224	75	13065	4.765	ug/l #	48
38) Carbon Tetrachloride	8.218	117	15391	5.894	ug/l #	17
43) Isopropyl Acetate	8.683	43	38527	5.673	ug/l #	79
45) 1,2-Dichloropropane	9.741	63	1015	0.472	ug/l #	43
48) Methyl methacrylate	9.741	41	71908	28.365	ug/l #	43
51) 4-Methyl-2-Pentanone	10.441	43	3692	1.249	ug/l	93
54) cis-1,3-Dichloropropene	10.353	75	36218	9.982	ug/l #	60
57) 1,3-Dichloropropane	11.200	76	3323	0.950	ug/l #	43
59) 2-Hexanone	11.200	43	59280	27.036	ug/l #	43
71) Bromoform	12.847	173	779	0.488	ug/l #	1
74) N-amyl acetate	12.459	43	2921	0.619	ug/l #	42
76) 1,2,3-Trichloropropane	12.847	75	68116	24.919	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	68116	59.845	ug/l #	10

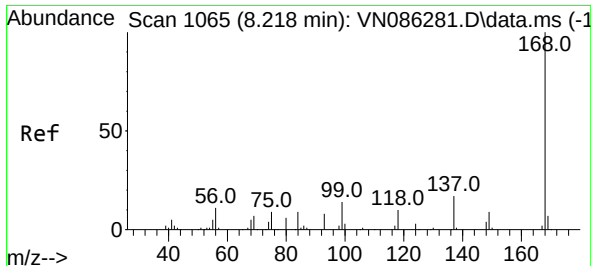
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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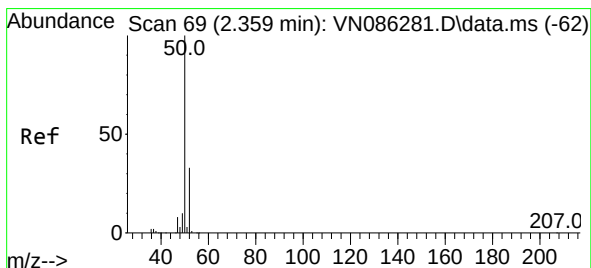
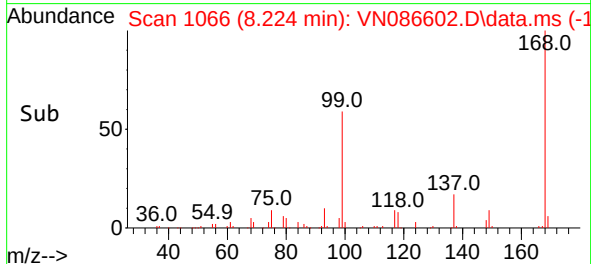
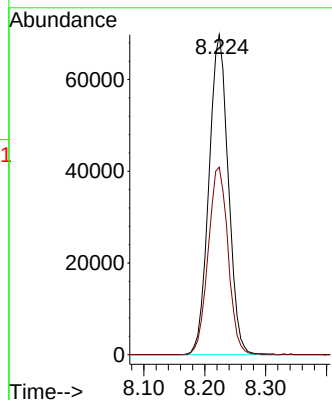
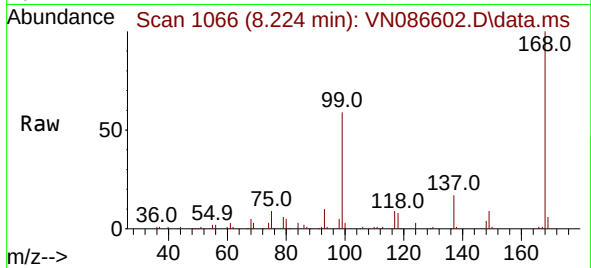




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN086602.D
Acq: 13 May 2025 15:23

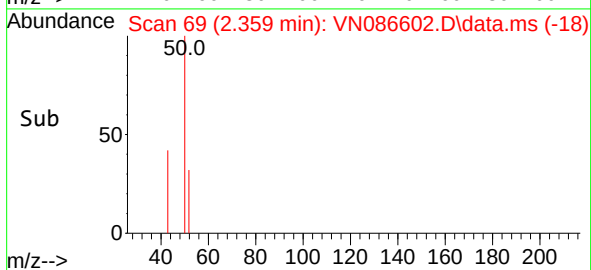
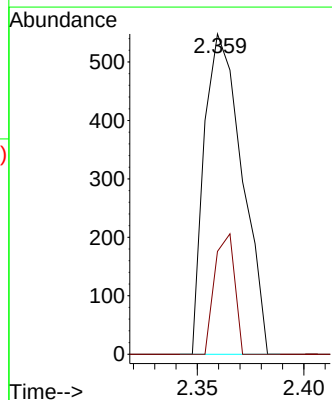
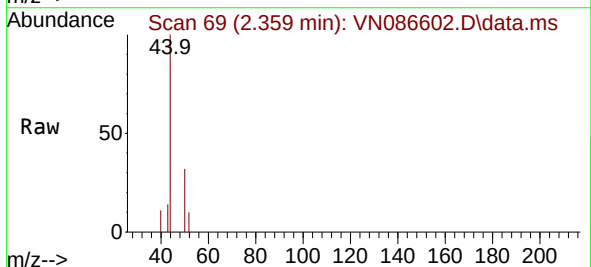
Instrument :
MSVOA_N
ClientSampleId :
PB167964TB

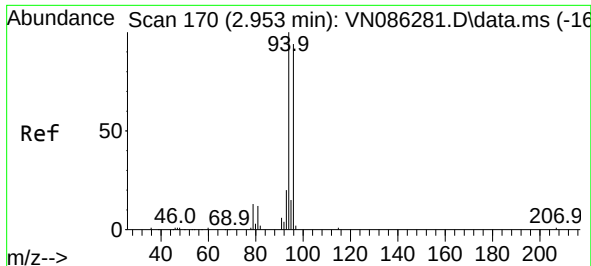
Tgt Ion:168 Resp: 153904
Ion Ratio Lower Upper
168 100
99 58.6 52.5 78.7



#3
Chloromethane
Concen: 0.255 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN086602.D
Acq: 13 May 2025 15:23

Tgt Ion: 50 Resp: 677
Ion Ratio Lower Upper
50 100
52 32.1 26.5 39.7

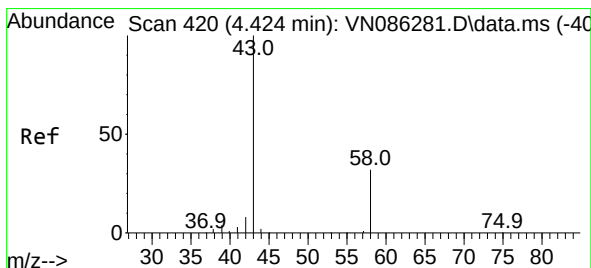
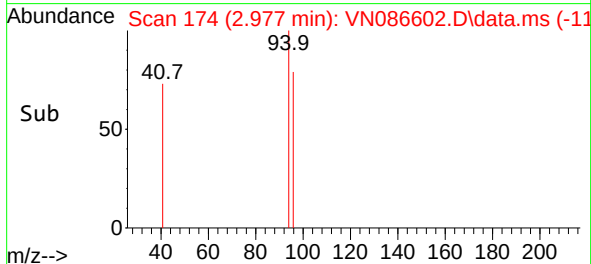
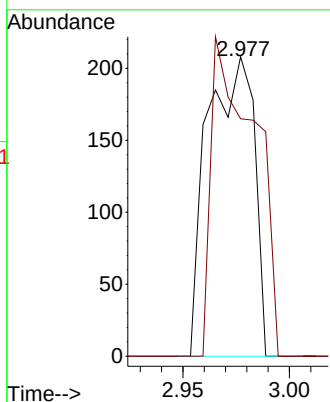
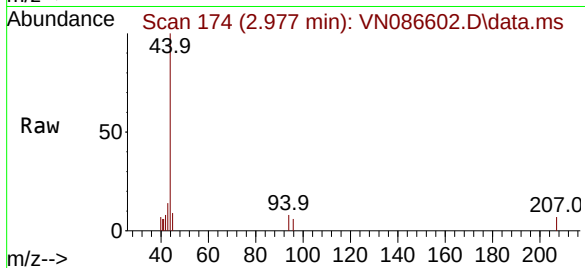




#5
Bromomethane
Concen: 0.279 ug/l
RT: 2.977 min Scan# 11
Delta R.T. 0.024 min
Lab File: VN086602.D
Acq: 13 May 2025 15:23

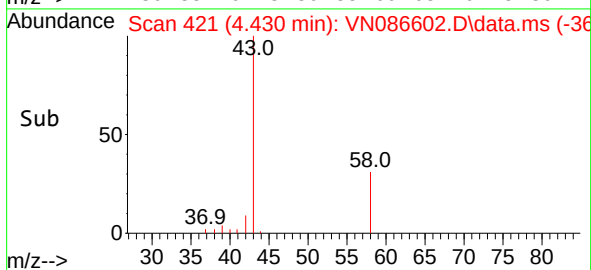
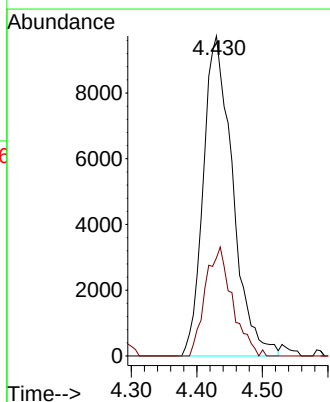
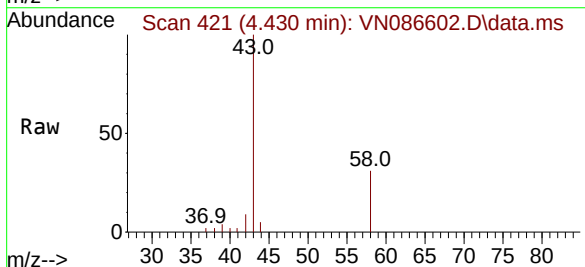
Instrument :
MSVOA_N
ClientSampleId :
PB167964TB

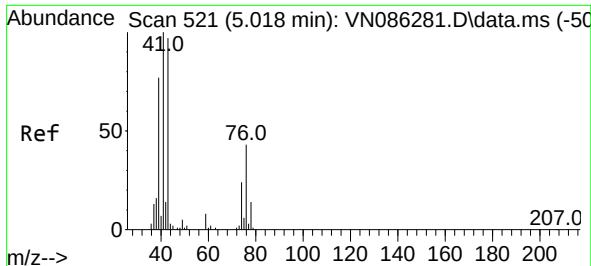
Tgt Ion: 94 Resp: 317
Ion Ratio Lower Upper
94 100
96 79.3 75.2 112.8



#16
Acetone
Concen: 34.301 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.006 min
Lab File: VN086602.D
Acq: 13 May 2025 15:23

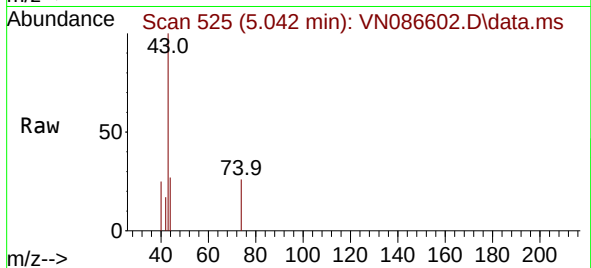
Tgt Ion: 43 Resp: 30266
Ion Ratio Lower Upper
43 100
58 30.6 25.3 37.9



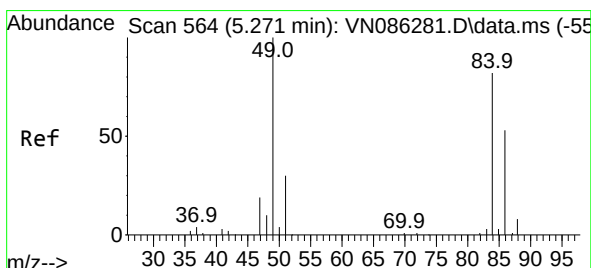
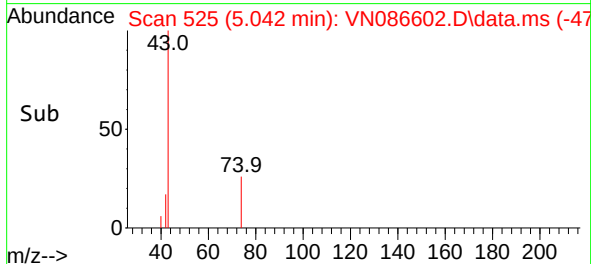
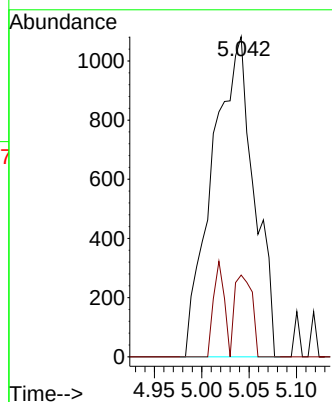


#18
Methyl Acetate
Concen: 1.230 ug/l
RT: 5.042 min Scan# 51
Delta R.T. 0.024 min
Lab File: VN086602.D
Acq: 13 May 2025 15:23

Instrument :
MSVOA_N
ClientSampleId :
PB167964TB

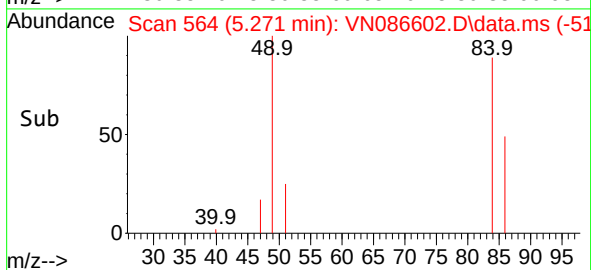
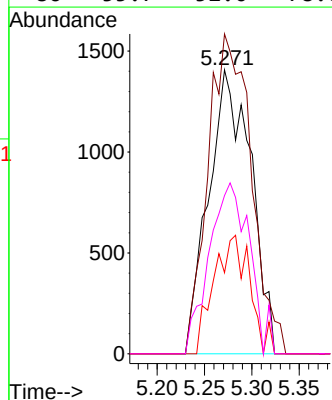
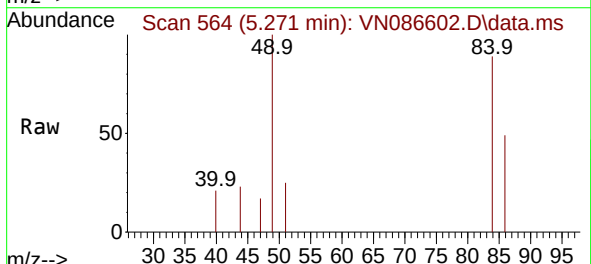


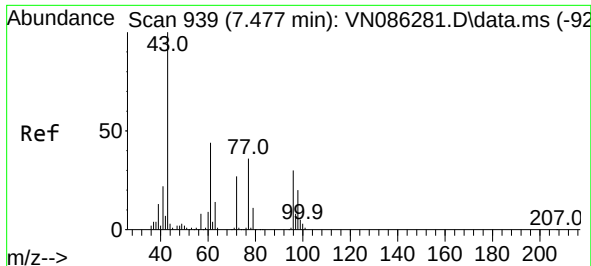
Tgt Ion: 43 Resp: 3295
Ion Ratio Lower Upper
43 100
74 10.7 19.8 29.6#



#20
Methylene Chloride
Concen: 2.119 ug/l
RT: 5.271 min Scan# 564
Delta R.T. 0.000 min
Lab File: VN086602.D
Acq: 13 May 2025 15:23

Tgt Ion: 84 Resp: 4371
Ion Ratio Lower Upper
84 100
49 112.7 98.2 147.2
51 28.6 29.8 44.6#
86 55.7 52.0 78.0

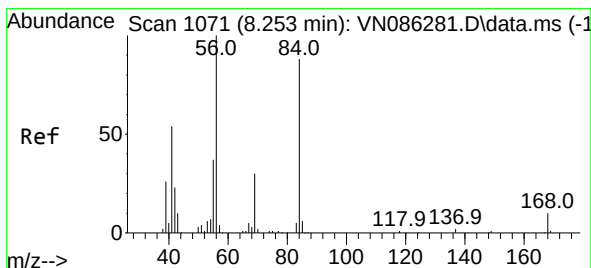
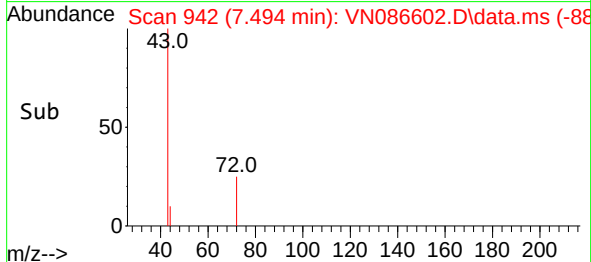
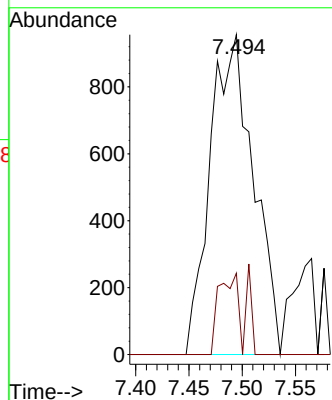
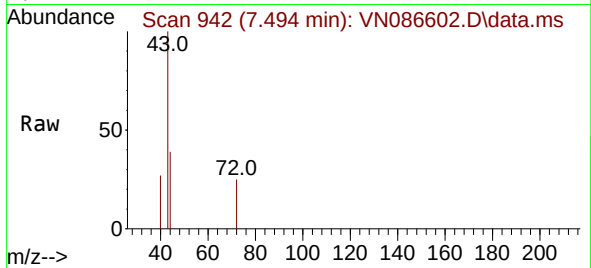




#25
2-Butanone
Concen: 1.947 ug/l
RT: 7.494 min Scan# 942
Delta R.T. 0.018 min
Lab File: VN086602.D
Acq: 13 May 2025 15:23

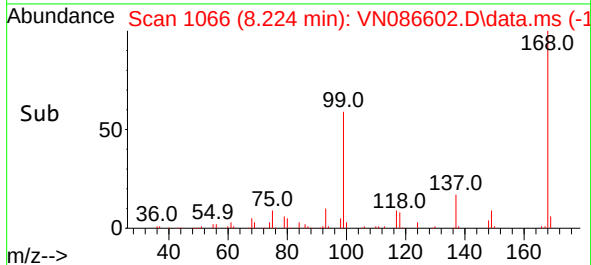
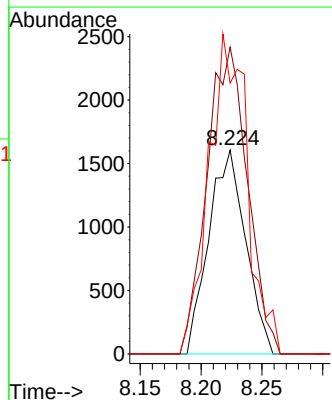
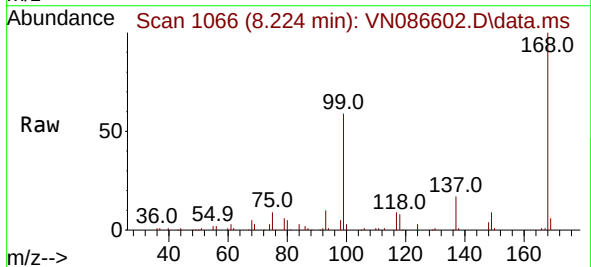
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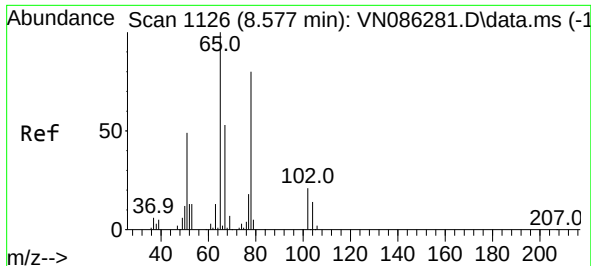
Tgt Ion: 43 Resp: 2704
Ion Ratio Lower Upper
43 100
72 25.4 21.7 32.5



#31
Cyclohexane
Concen: 0.937 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.029 min
Lab File: VN086602.D
Acq: 13 May 2025 15:23

Tgt Ion: 56 Resp: 3388
Ion Ratio Lower Upper
56 100
69 150.5 24.2 36.2#
84 132.9 70.3 105.5#

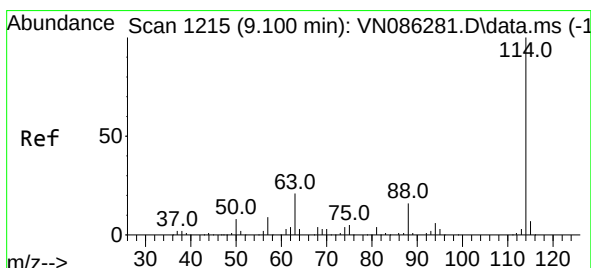
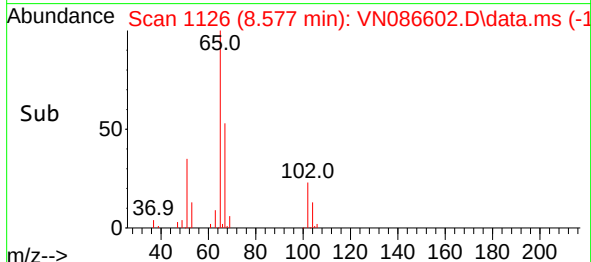
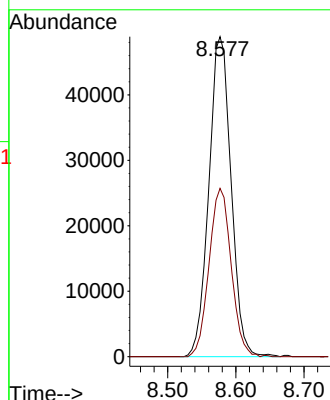
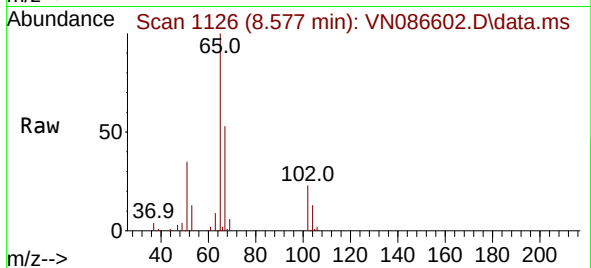




#33
 1,2-Dichloroethane-d4
 Concen: 49.647 ug/l
 RT: 8.577 min Scan# 1126
 Delta R.T. 0.000 min
 Lab File: VN086602.D
 Acq: 13 May 2025 15:23

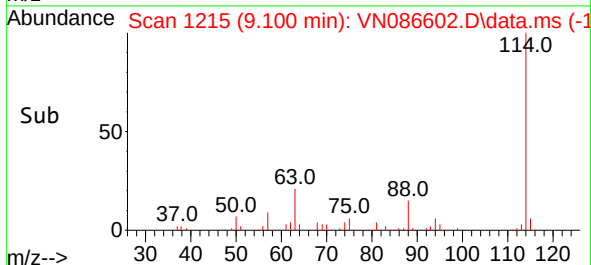
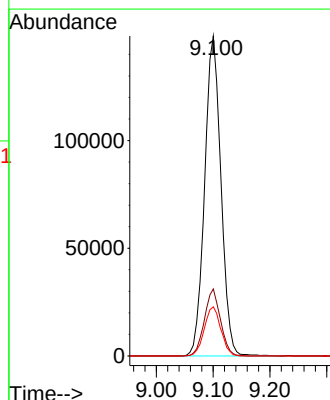
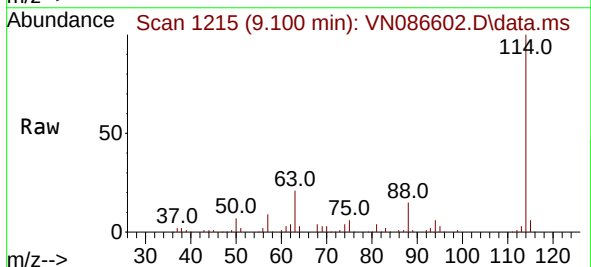
Instrument :
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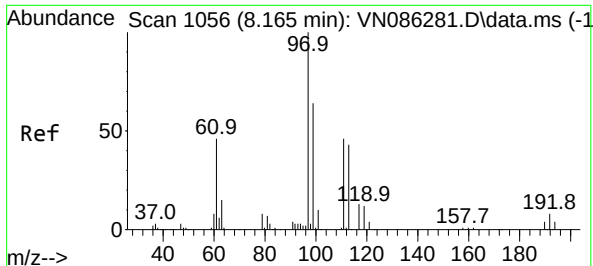
Tgt Ion: 65 Resp: 110800
 Ion Ratio Lower Upper
 65 100
 67 52.5 0.0 106.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 9.100 min Scan# 1215
 Delta R.T. 0.000 min
 Lab File: VN086602.D
 Acq: 13 May 2025 15:23

Tgt Ion: 114 Resp: 295794
 Ion Ratio Lower Upper
 114 100
 63 21.0 0.0 42.6
 88 15.4 0.0 31.8

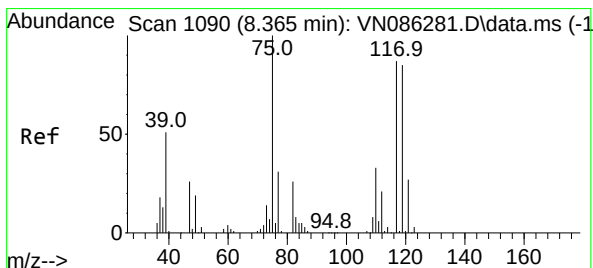
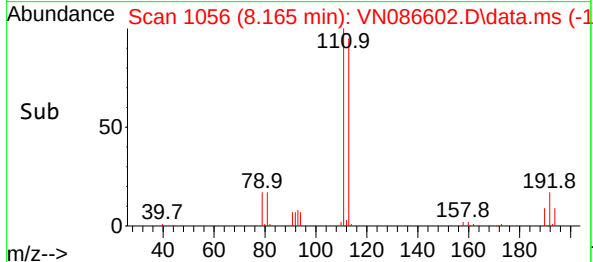
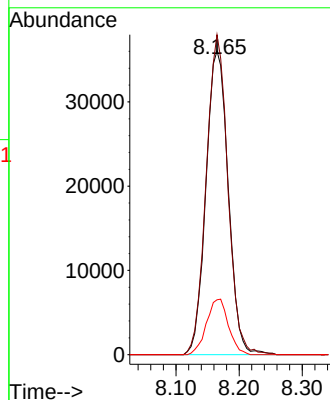
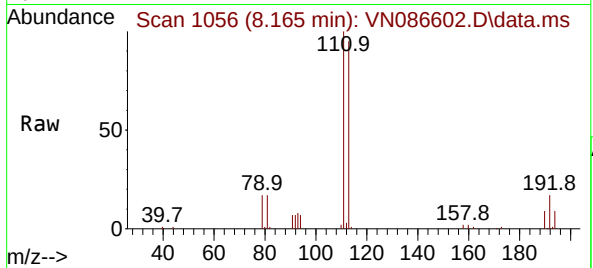




#35
Dibromofluoromethane
Concen: 64.428 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN086602.D
Acq: 13 May 2025 15:23

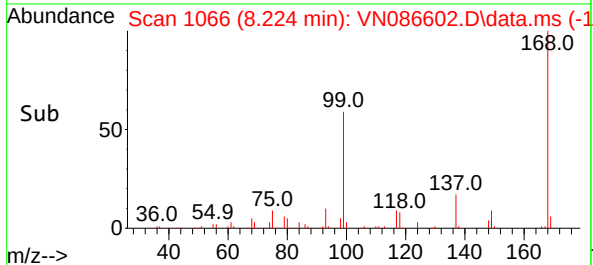
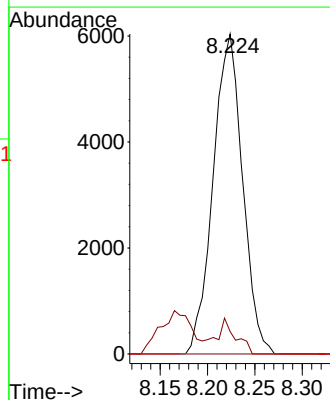
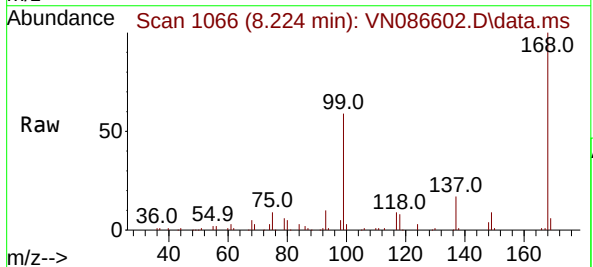
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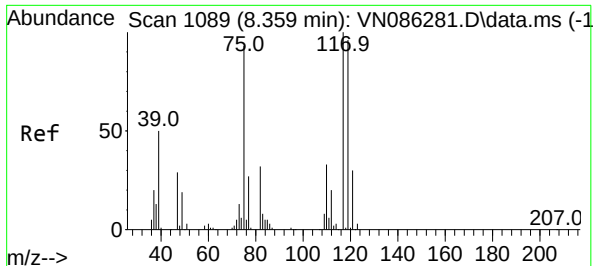
Tgt Ion:113 Resp: 88448
Ion Ratio Lower Upper
113 100
111 102.2 83.4 125.0
192 18.0 13.7 20.5



#36
1,1-Dichloropropene
Concen: 4.765 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.141 min
Lab File: VN086602.D
Acq: 13 May 2025 15:23

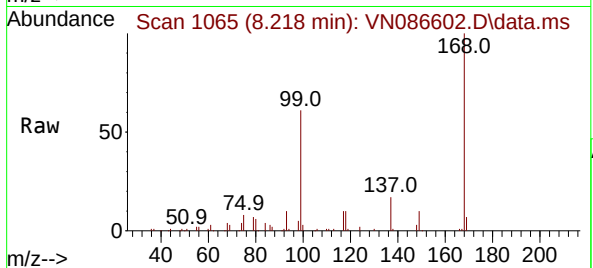
Tgt Ion: 75 Resp: 13065
Ion Ratio Lower Upper
75 100
110 6.7 16.8 50.4#
77 0.0 24.9 37.3#



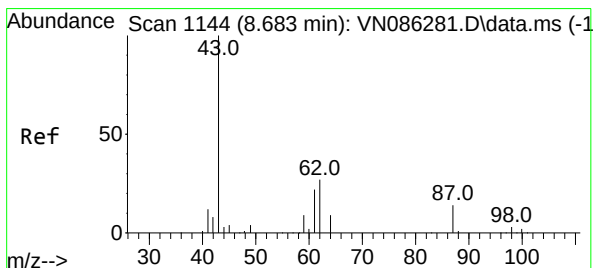
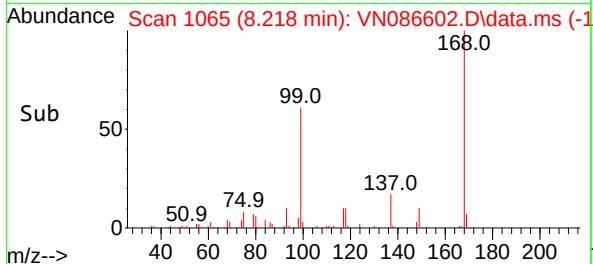
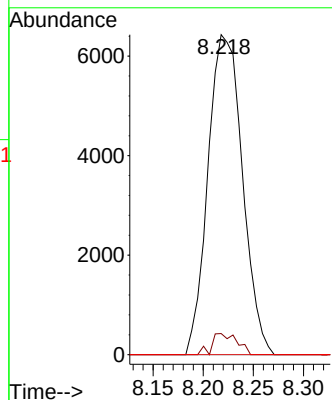


#38
Carbon Tetrachloride
Concen: 5.894 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.141 min
Lab File: VN086602.D
Acq: 13 May 2025 15:23

Instrument :
MSVOA_N
ClientSampleId :
PB167964TB

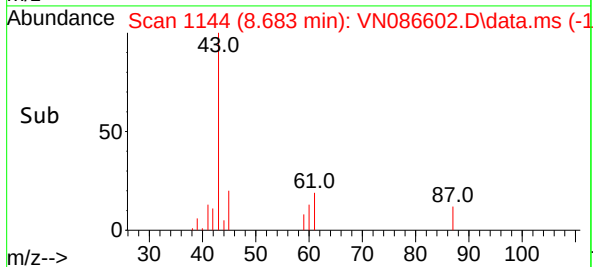
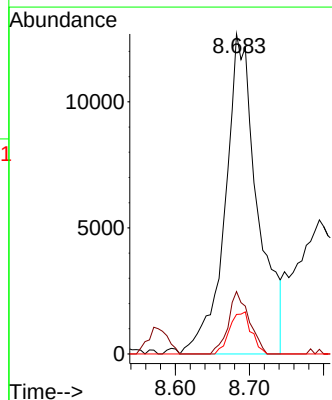
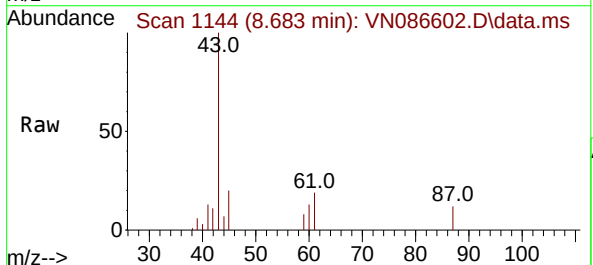


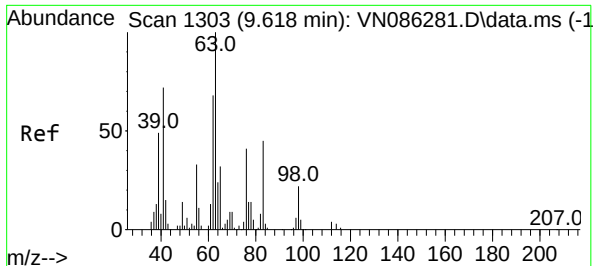
Tgt Ion:117 Resp: 15391
Ion Ratio Lower Upper
117 100
119 6.6 76.8 115.2#
121 0.0 23.8 35.8#



#43
Isopropyl Acetate
Concen: 5.673 ug/l
RT: 8.683 min Scan# 1144
Delta R.T. -0.000 min
Lab File: VN086602.D
Acq: 13 May 2025 15:23

Tgt Ion: 43 Resp: 38527
Ion Ratio Lower Upper
43 100
61 12.6 20.5 30.7#
87 8.8 10.5 15.7#





#45

1,2-Dichloropropane

Concen: 0.472 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.124 min

Lab File: VN086602.D

Acq: 13 May 2025 15:23

Instrument :

MSVOA_N

ClientSampleId :

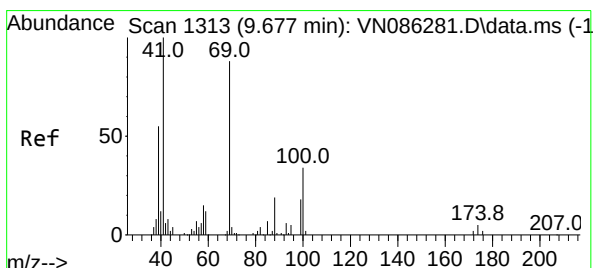
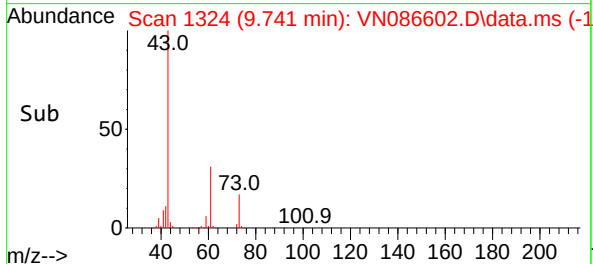
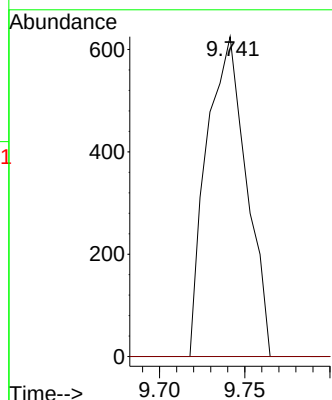
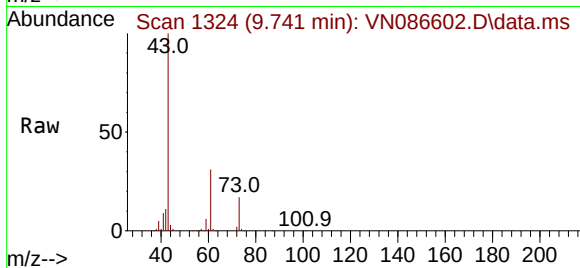
PB167964TB

Tgt Ion: 63 Resp: 1015

Ion Ratio Lower Upper

63 100

65 0.0 25.4 38.2#



#48

Methyl methacrylate

Concen: 28.365 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.065 min

Lab File: VN086602.D

Acq: 13 May 2025 15:23

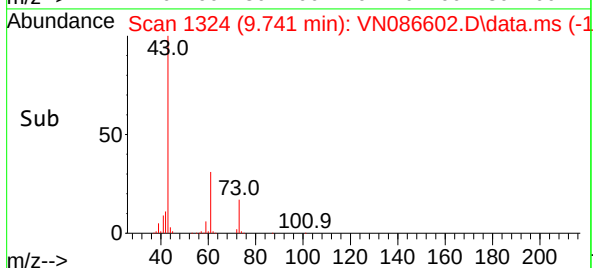
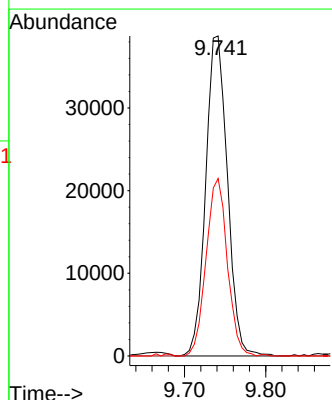
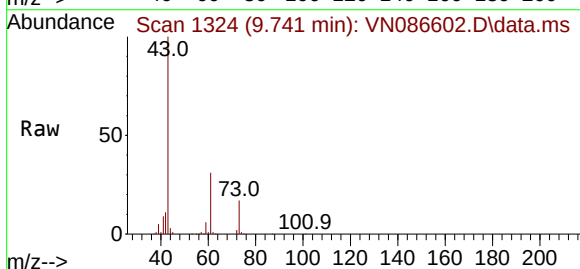
Tgt Ion: 41 Resp: 71908

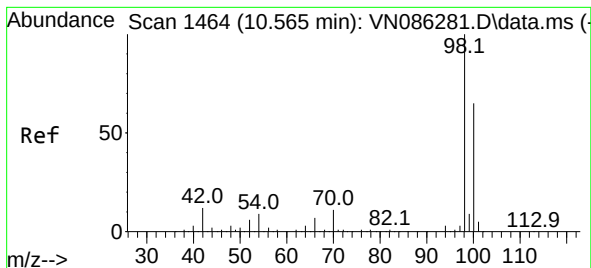
Ion Ratio Lower Upper

41 100

69 0.0 68.2 102.2#

39 54.2 45.2 67.8

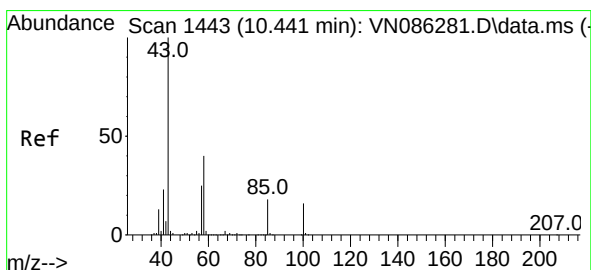
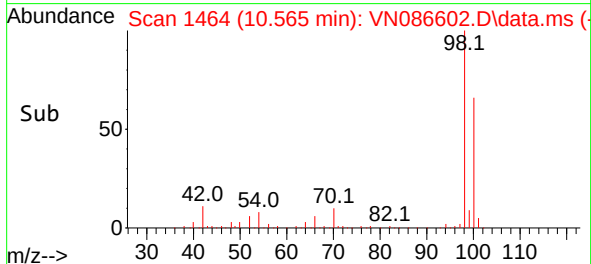
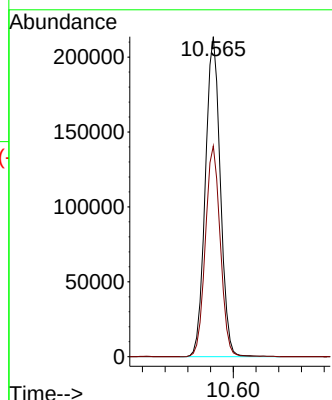
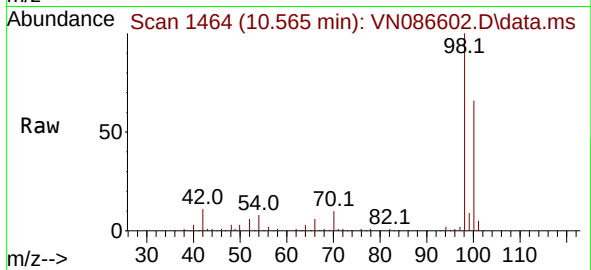




#50
Toluene-d8
Concen: 53.084 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN086602.D
Acq: 13 May 2025 15:23

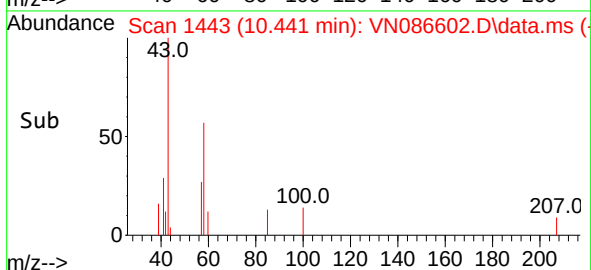
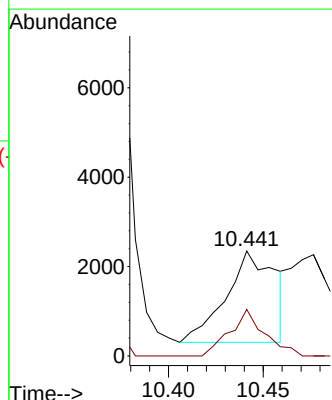
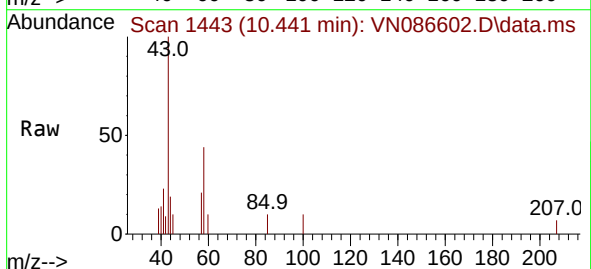
Instrument :
MSVOA_N
ClientSampleId :
PB167964TB

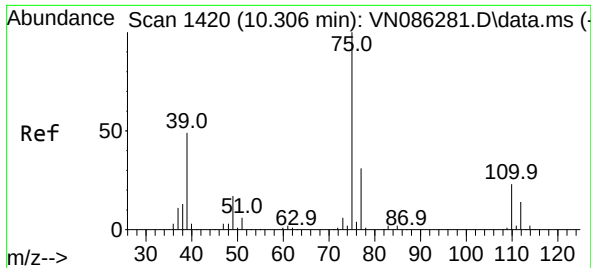
Tgt Ion: 98 Resp: 389475
Ion Ratio Lower Upper
98 100
100 65.6 52.5 78.7



#51
4-Methyl-2-Pentanone
Concen: 1.249 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN086602.D
Acq: 13 May 2025 15:23

Tgt Ion: 43 Resp: 3692
Ion Ratio Lower Upper
43 100
58 35.9 32.2 48.4

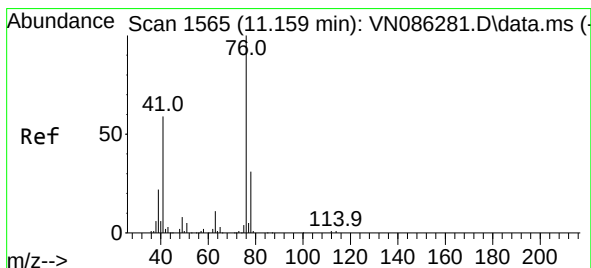
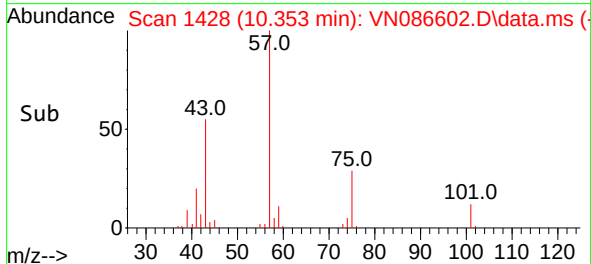
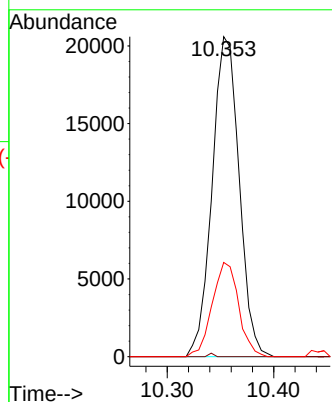
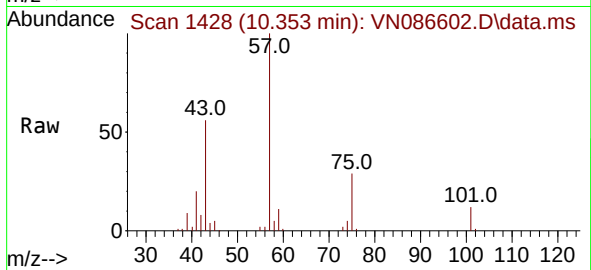




#54
 cis-1,3-Dichloropropene
 Concen: 9.982 ug/l
 RT: 10.353 min Scan# 1428
 Delta R.T. 0.047 min
 Lab File: VN086602.D
 Acq: 13 May 2025 15:23

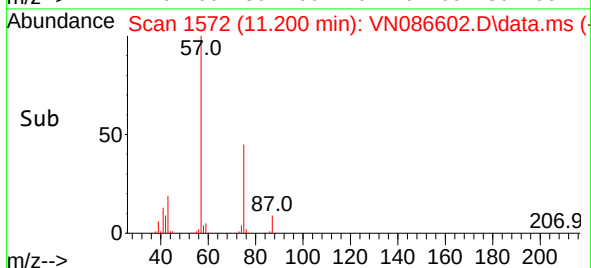
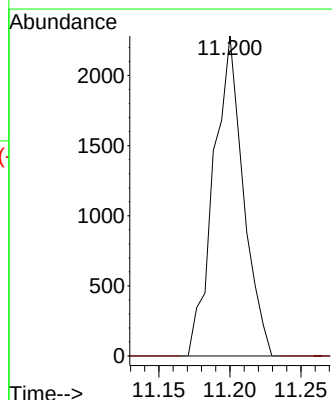
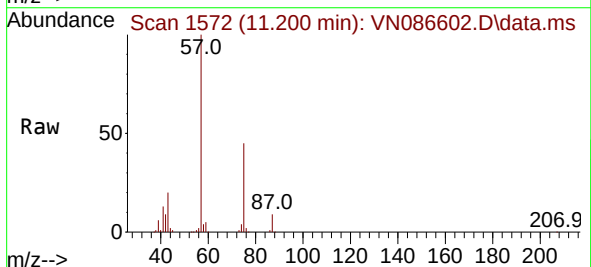
Instrument :
 MSVOA_N
 ClientSampleId :
 PB167964TB

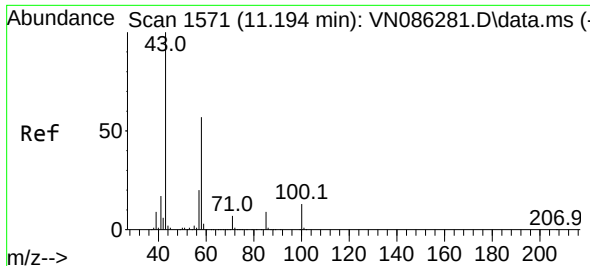
Tgt Ion: 75 Resp: 36218
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.2 37.8#
 39 29.4 39.3 58.9#



#57
 1,3-Dichloropropane
 Concen: 0.950 ug/l
 RT: 11.200 min Scan# 1572
 Delta R.T. 0.041 min
 Lab File: VN086602.D
 Acq: 13 May 2025 15:23

Tgt Ion: 76 Resp: 3323
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#

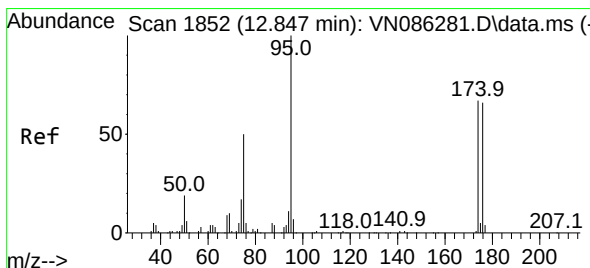
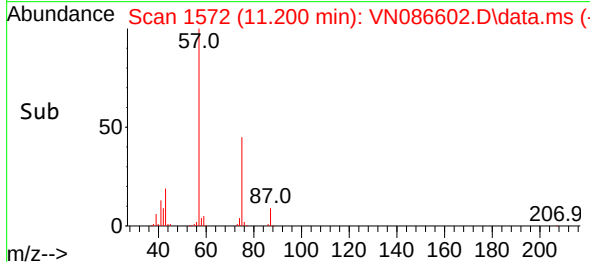
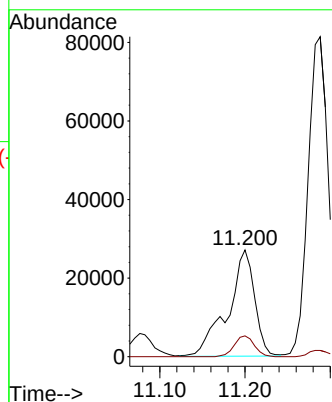
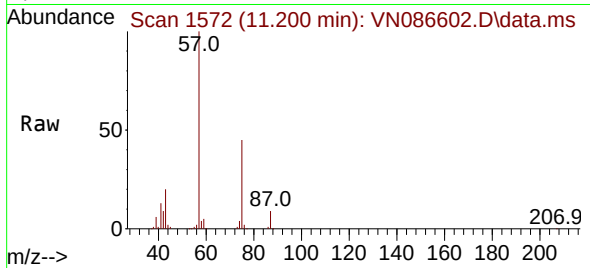




#59
2-Hexanone
Concen: 27.036 ug/l
RT: 11.200 min Scan# 1157
Delta R.T. 0.006 min
Lab File: VN086602.D
Acq: 13 May 2025 15:23

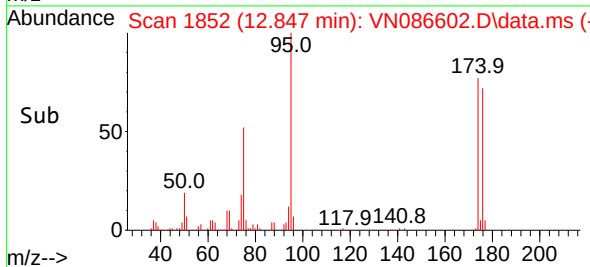
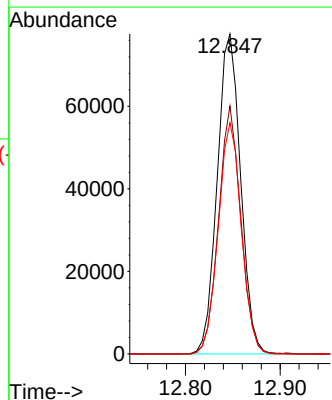
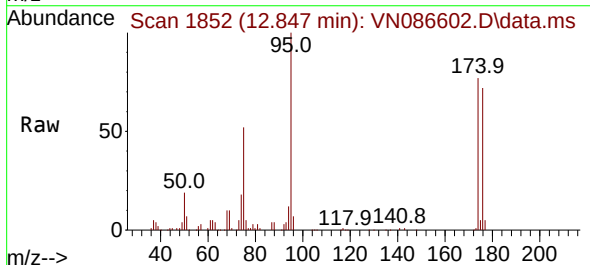
Instrument :
MSVOA_N
ClientSampleId :
PB167964TB

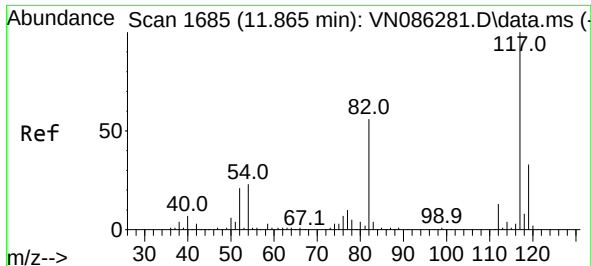
Tgt Ion: 43 Resp: 59280
Ion Ratio Lower Upper
43 100
58 14.6 28.3 85.0#



#62
4-Bromofluorobenzene
Concen: 49.738 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN086602.D
Acq: 13 May 2025 15:23

Tgt Ion: 95 Resp: 133105
Ion Ratio Lower Upper
95 100
174 73.7 0.0 133.4
176 71.2 0.0 129.2

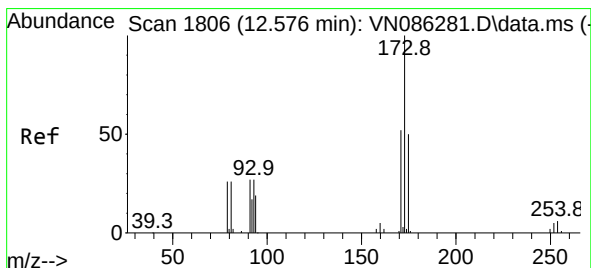
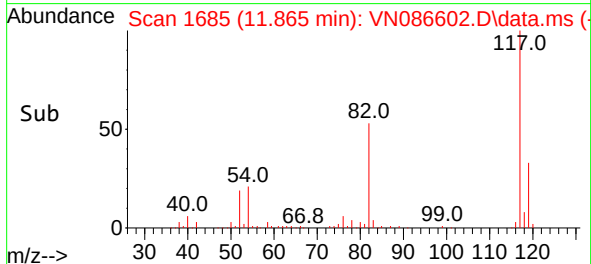
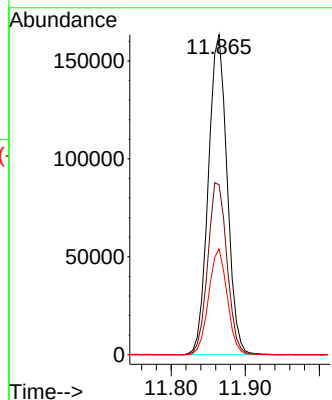
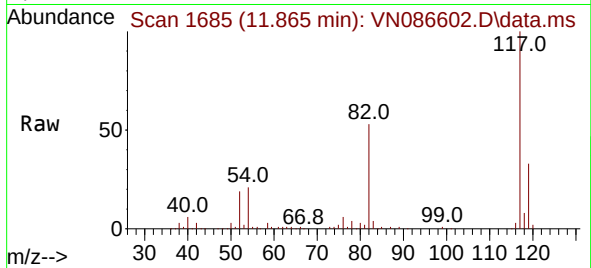




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN086602.D
Acq: 13 May 2025 15:23

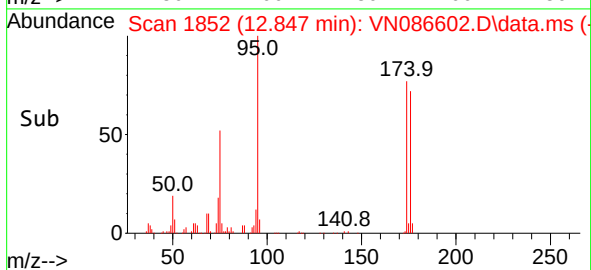
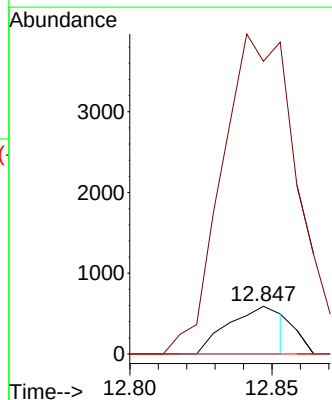
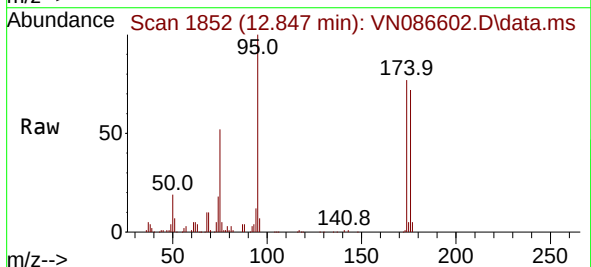
Instrument :
MSVOA_N
ClientSampleId :
PB167964TB

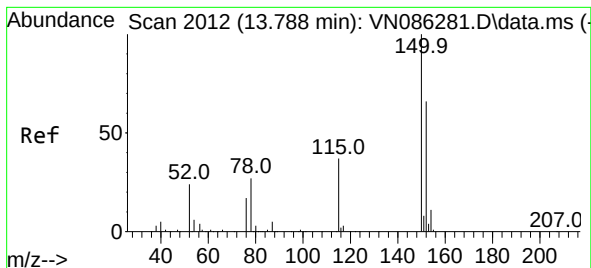
Tgt Ion:117 Resp: 287951
Ion Ratio Lower Upper
117 100
82 53.1 44.7 67.1
119 33.0 26.4 39.6



#71
Bromoform
Concen: 0.488 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.271 min
Lab File: VN086602.D
Acq: 13 May 2025 15:23

Tgt Ion:173 Resp: 779
Ion Ratio Lower Upper
173 100
175 580.1 24.6 73.6#
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: VN086602.D

Acq: 13 May 2025 15:23

Instrument :

MSVOA_N

ClientSampleId :

PB167964TB

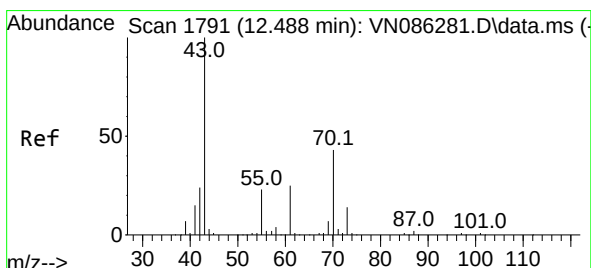
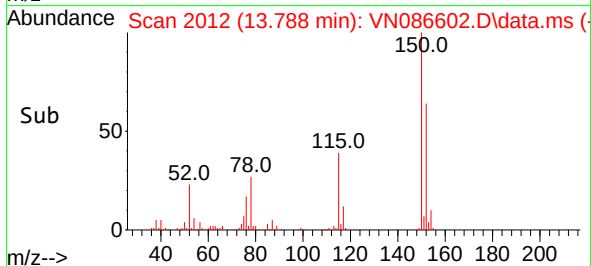
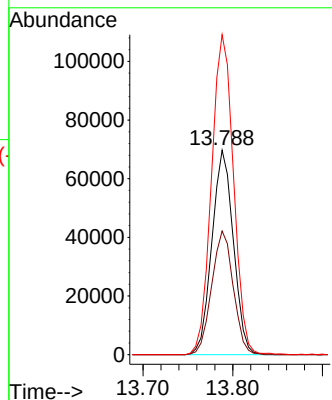
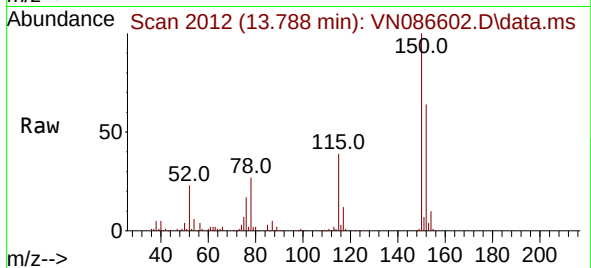
Tgt Ion:152 Resp: 115835

Ion Ratio Lower Upper

152 100

115 60.8 31.9 95.9

150 160.4 0.0 352.0



#74

N-ethyl acetate

Concen: 0.619 ug/l

RT: 12.459 min Scan# 1786

Delta R.T. -0.029 min

Lab File: VN086602.D

Acq: 13 May 2025 15:23

Tgt Ion: 43 Resp: 2921

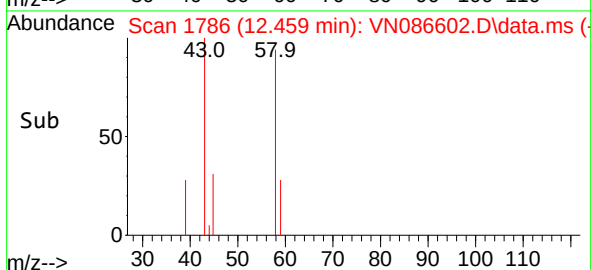
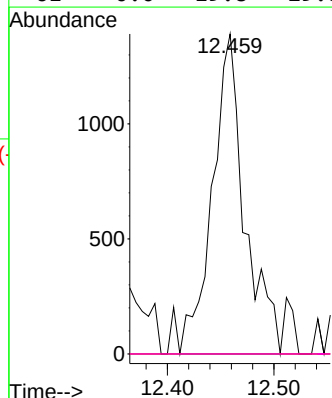
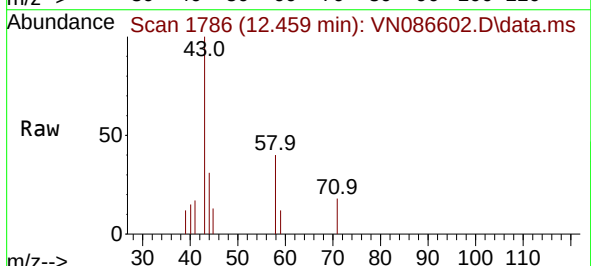
Ion Ratio Lower Upper

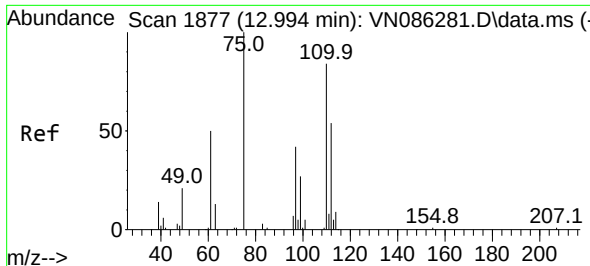
43 100

70 0.0 35.0 52.4#

55 0.0 19.0 28.4#

61 0.0 19.8 29.8#

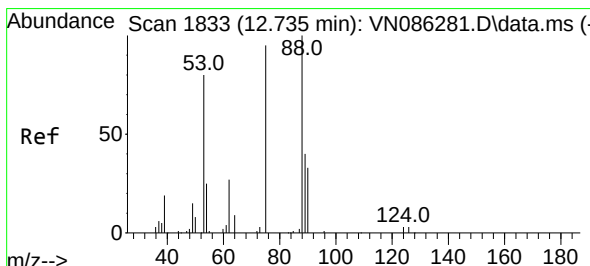
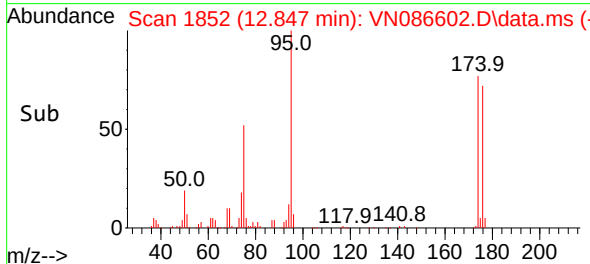
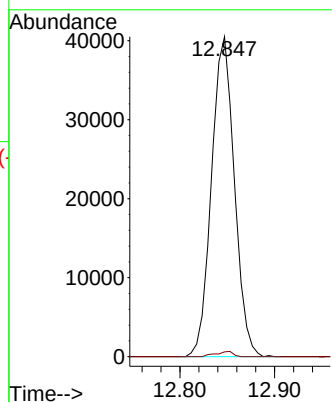
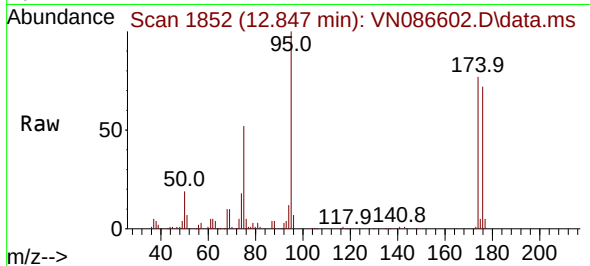




#76
1,2,3-Trichloropropane
Concen: 24.919 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN086602.D
Acq: 13 May 2025 15:23

Instrument :
MSVOA_N
ClientSampleId :
PB167964TB

Tgt Ion: 75 Resp: 68116
Ion Ratio Lower Upper
75 100
77 1.2 98.8 296.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 59.845 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086602.D
Acq: 13 May 2025 15:23

Tgt Ion: 75 Resp: 68116
Ion Ratio Lower Upper
75 100
53 0.0 79.2 118.8#
89 0.0 35.7 53.5#

