

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110625\
 Data File : VN088206.D
 Acq On : 06 Nov 2025 15:10
 Operator : JC\MD
 Sample : Q3532-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-1

Quant Time: Nov 07 02:20:14 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 03 01:16:06 2025
 Response via : Initial Calibration

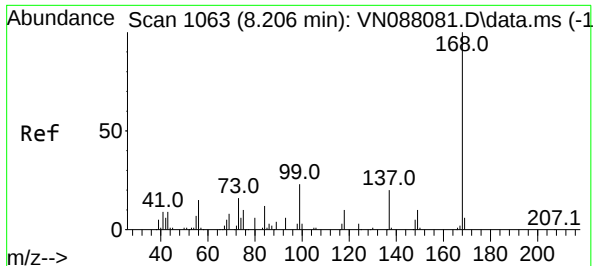
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.206	168	224306	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	519367	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	506591	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	239334	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	237460	61.221	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 122.440%			
35) Dibromofluoromethane	8.153	113	176717	50.648	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.300%			
50) Toluene-d8	10.541	98	670928	49.905	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.800%			
62) 4-Bromofluorobenzene	12.823	95	266991	56.232	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 112.460%			
Target Compounds						Qvalue
5) Bromomethane	2.983	94	950	0.490	ug/l #	75
10) Methyl Iodide	4.589	142	2000	0.820	ug/l #	81
11) Tert butyl alcohol	5.512	59	10392	15.552	ug/l #	80
16) Acetone	4.430	43	41118	21.101	ug/l	98
18) Methyl Acetate	5.024	43	7678	1.925	ug/l #	85
20) Methylene Chloride	5.259	84	12158	3.717	ug/l #	96
25) 2-Butanone	7.471	43	46781	18.217	ug/l	100
29) Tetrahydrofuran	7.830	42	2640	1.577	ug/l #	65
31) Cyclohexane	8.200	56	6818	1.256	ug/l #	13
36) 1,1-Dichloropropene	8.200	75	23345	4.582	ug/l #	51
37) Ethyl Acetate	7.471	43	46781	7.116	ug/l #	72
38) Carbon Tetrachloride	8.206	117	26635	5.062	ug/l #	14
43) Isopropyl Acetate	8.677	43	30171	2.987	ug/l #	90
45) 1,2-Dichloropropane	9.718	63	1736	0.443	ug/l #	43
48) Methyl methacrylate	9.641	41	6005	1.287	ug/l #	50
49) 1,4-Dioxane	9.729	88	235	4.051	ug/l #	1
51) 4-Methyl-2-Pentanone	10.465	43	5169	0.865	ug/l #	38
54) cis-1,3-Dichloropropene	10.335	75	46211	7.316	ug/l #	61
57) 1,3-Dichloropropane	11.182	76	3689	0.578	ug/l #	42
59) 2-Hexanone	11.188	43	77053	19.435	ug/l #	57
74) N-amyl acetate	12.512	43	2061	0.393	ug/l #	59
76) 1,2,3-Trichloropropane	12.829	75	150303	27.468	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	150303	76.623	ug/l #	1

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

Quant Time: Nov 07 02:20:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260
QLast Update : Mon Nov 03 01:16:06 2025
Response via : Initial Calibration

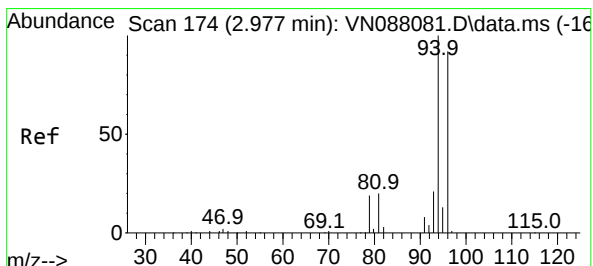
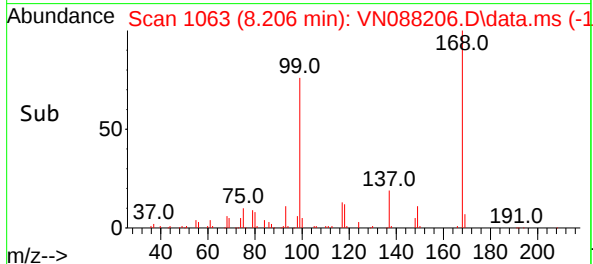
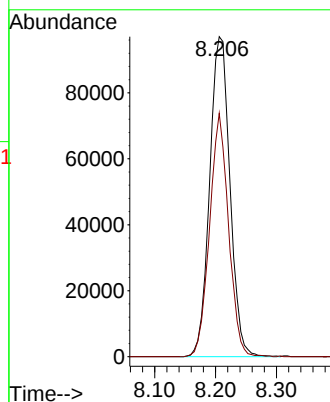
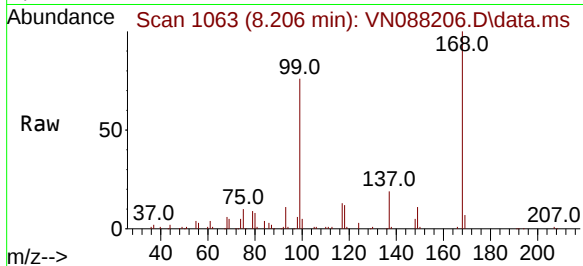




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN088206.D
Acq: 06 Nov 2025 15:10

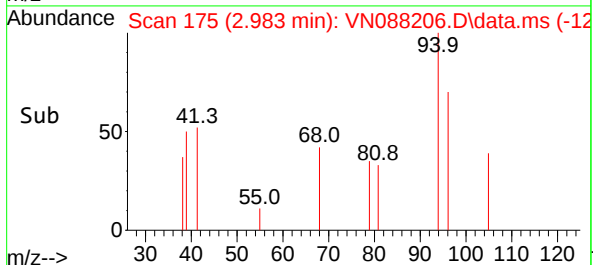
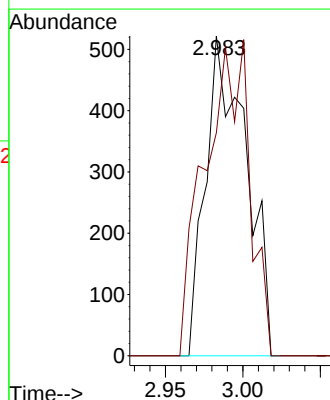
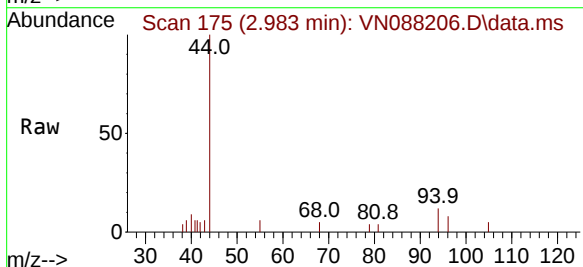
Instrument :
MSVOA_N
ClientSampleId :
TP-1

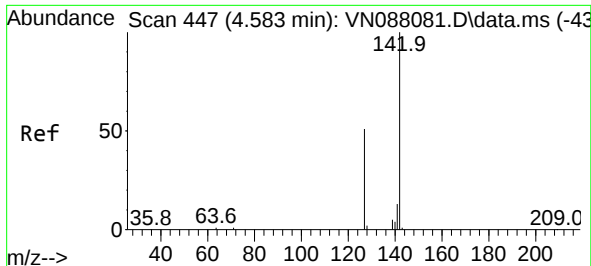
Tgt Ion:168 Resp: 224306
Ion Ratio Lower Upper
168 100
99 76.1 57.2 85.8



#5
Bromomethane
Concen: 0.490 ug/l
RT: 2.983 min Scan# 175
Delta R.T. 0.012 min
Lab File: VN088206.D
Acq: 06 Nov 2025 15:10

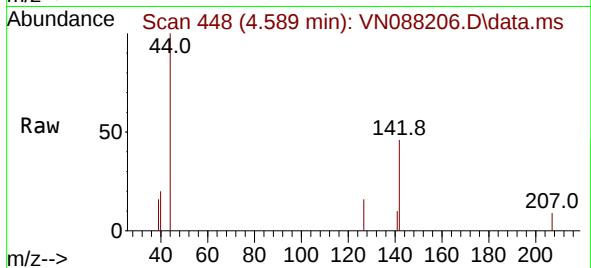
Tgt Ion: 94 Resp: 950
Ion Ratio Lower Upper
94 100
96 69.7 75.4 113.2#



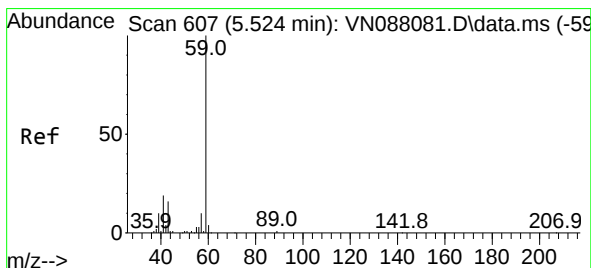
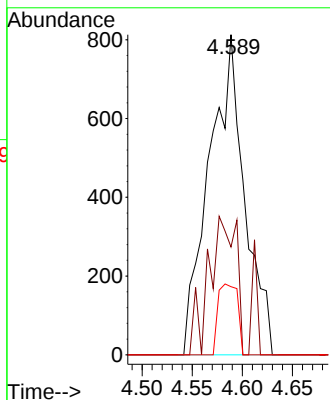
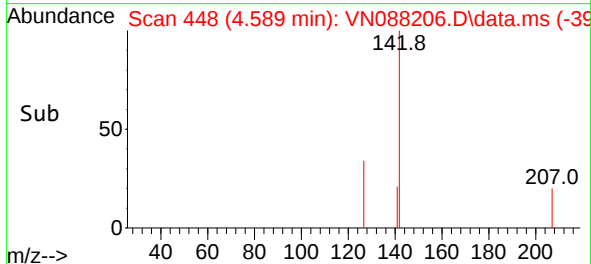


#10
Methyl Iodide
Concen: 0.820 ug/l
RT: 4.589 min Scan# 447
Delta R.T. 0.012 min
Lab File: VN088206.D
Acq: 06 Nov 2025 15:10

Instrument :
MSVOA_N
ClientSampleId :
TP-1

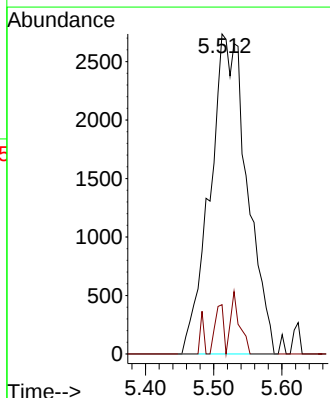
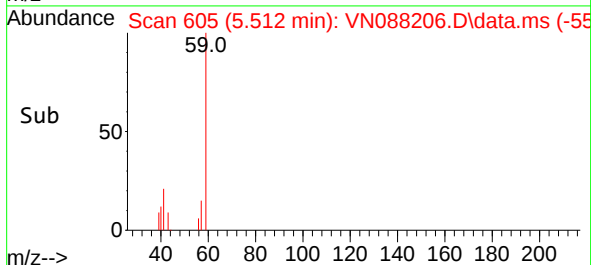
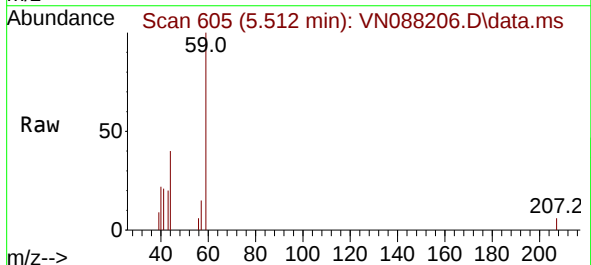


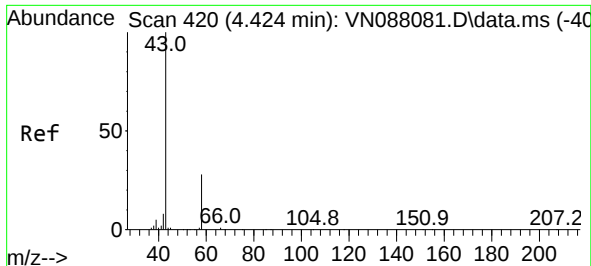
Tgt Ion:142 Resp: 2000
Ion Ratio Lower Upper
142 100
127 33.7 38.0 57.0#
141 21.3 12.0 18.0#



#11
Tert butyl alcohol
Concen: 15.552 ug/l
RT: 5.512 min Scan# 605
Delta R.T. -0.006 min
Lab File: VN088206.D
Acq: 06 Nov 2025 15:10

Tgt Ion: 59 Resp: 10392
Ion Ratio Lower Upper
59 100
57 3.5 9.0 13.4#

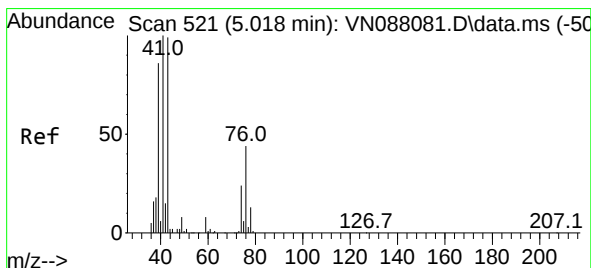
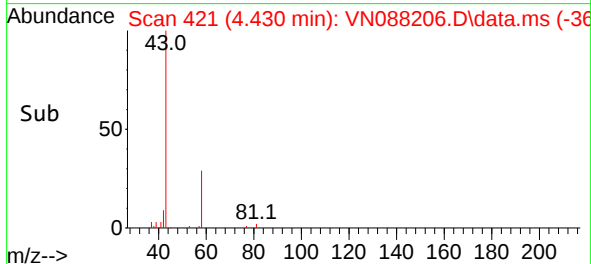
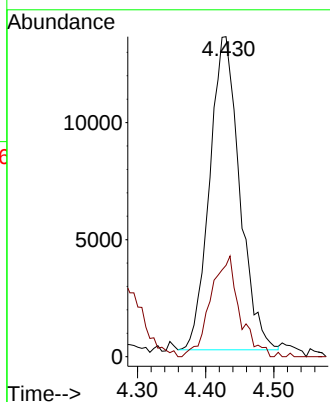
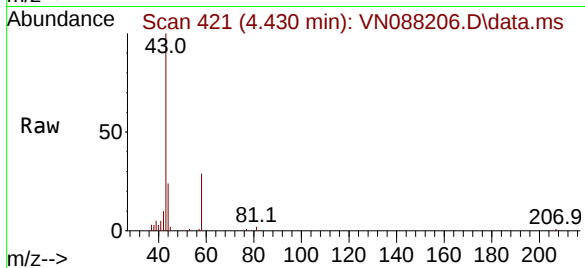




#16
Acetone
Concen: 21.101 ug/l
RT: 4.430 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN088206.D
Acq: 06 Nov 2025 15:10

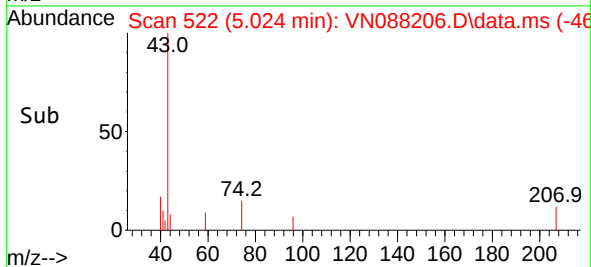
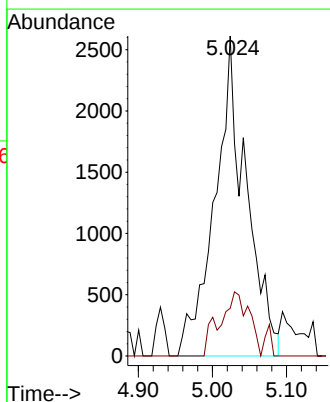
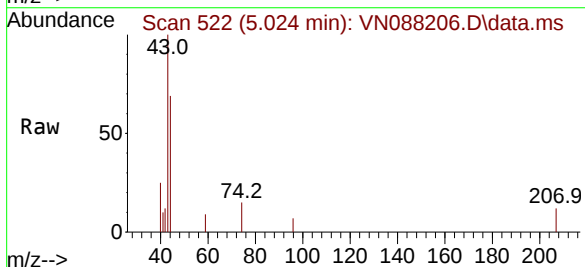
Instrument :
MSVOA_N
ClientSampleId :
TP-1

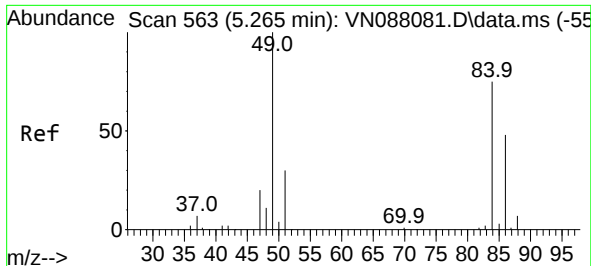
Tgt Ion: 43 Resp: 41118
Ion Ratio Lower Upper
43 100
58 29.2 22.6 33.8



#18
Methyl Acetate
Concen: 1.925 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.012 min
Lab File: VN088206.D
Acq: 06 Nov 2025 15:10

Tgt Ion: 43 Resp: 7678
Ion Ratio Lower Upper
43 100
74 15.0 17.6 26.4#

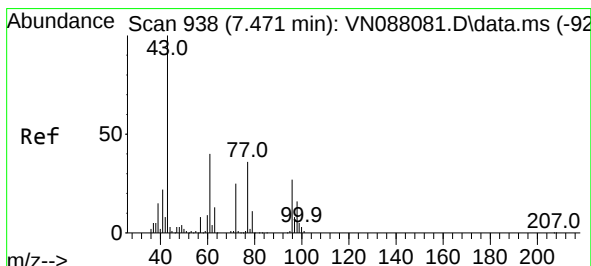
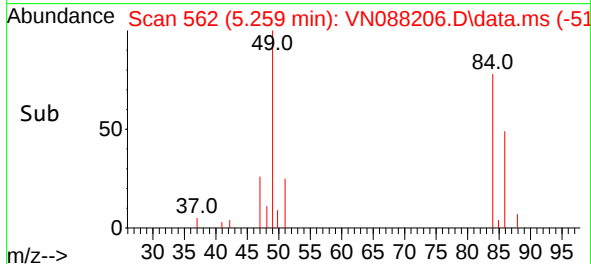
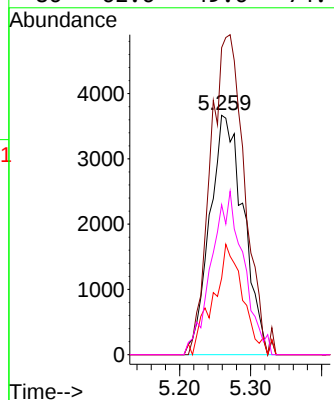
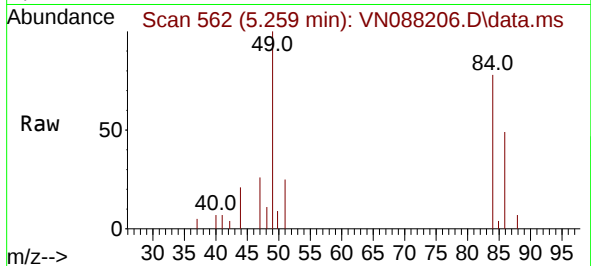




#20
Methylene Chloride
Concen: 3.717 ug/l
RT: 5.259 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN088206.D
Acq: 06 Nov 2025 15:10

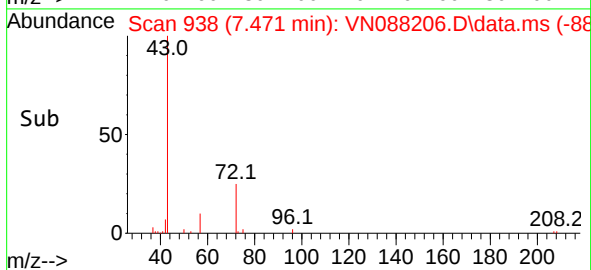
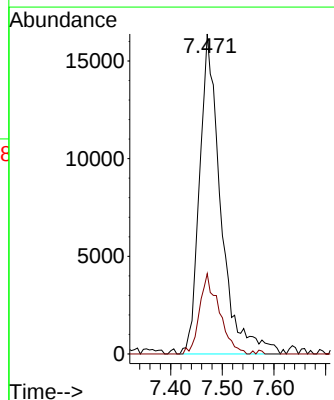
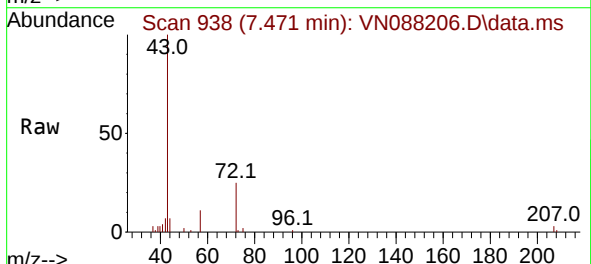
Instrument :
MSVOA_N
ClientSampleId :
TP-1

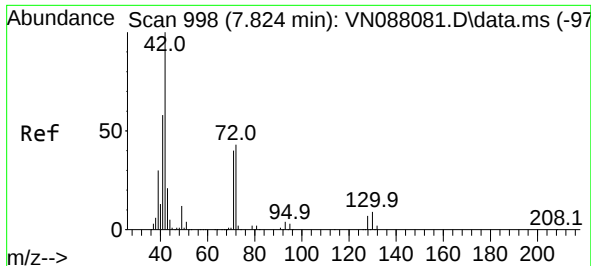
Tgt Ion:	84	Resp:	12158
Ion	Ratio	Lower	Upper
84	100		
49	128.2	103.4	155.2
51	31.9	33.8	50.8#
86	62.6	49.6	74.4



#25
2-Butanone
Concen: 18.217 ug/l
RT: 7.471 min Scan# 938
Delta R.T. 0.006 min
Lab File: VN088206.D
Acq: 06 Nov 2025 15:10

Tgt Ion:	43	Resp:	46781
Ion	Ratio	Lower	Upper
43	100		
72	25.1	19.9	29.9

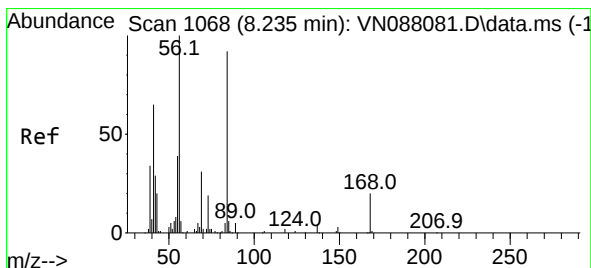
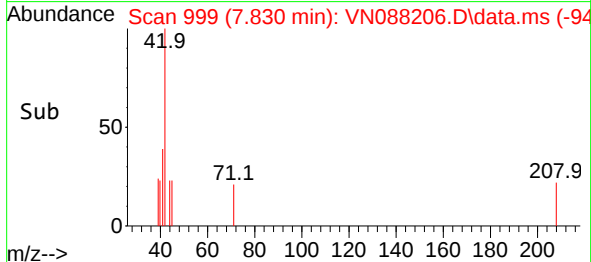
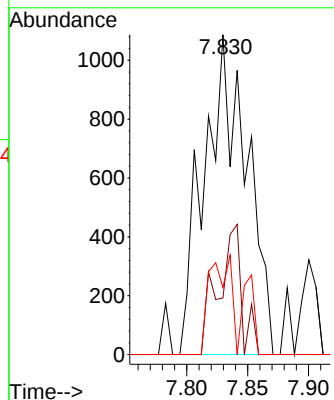
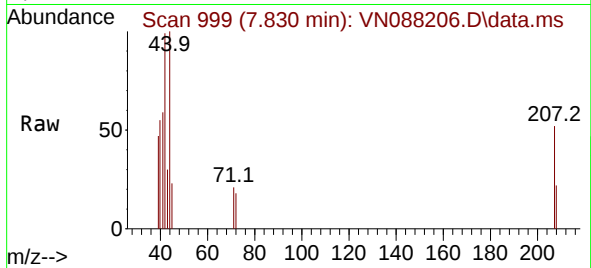




#29
Tetrahydrofuran
Concen: 1.577 ug/l
RT: 7.830 min Scan# 998
Delta R.T. 0.006 min
Lab File: VN088206.D
Acq: 06 Nov 2025 15:10

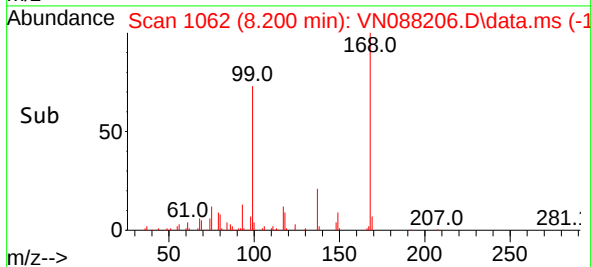
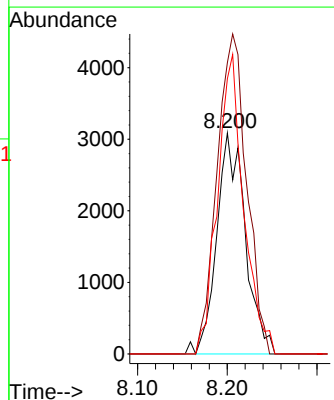
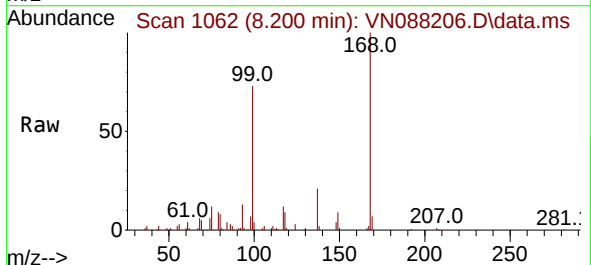
Instrument :
MSVOA_N
ClientSampleId :
TP-1

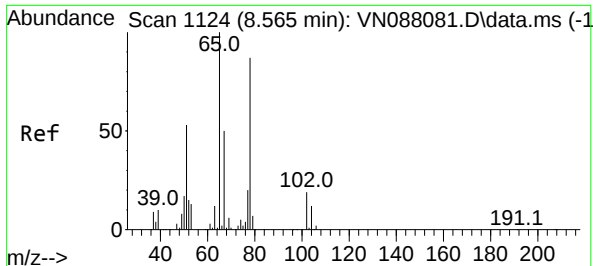
Tgt Ion: 42 Resp: 2640
Ion Ratio Lower Upper
42 100
72 22.5 33.7 50.5#
71 15.5 31.9 47.9#



#31
Cyclohexane
Concen: 1.256 ug/l
RT: 8.200 min Scan# 1062
Delta R.T. -0.035 min
Lab File: VN088206.D
Acq: 06 Nov 2025 15:10

Tgt Ion: 56 Resp: 6818
Ion Ratio Lower Upper
56 100
69 131.9 23.7 35.5#
84 124.7 64.7 97.1#





#33

1,2-Dichloroethane-d4

Concen: 61.221 ug/l

RT: 8.565 min Scan# 1124

Delta R.T. 0.006 min

Lab File: VN088206.D

Acq: 06 Nov 2025 15:10

Instrument :

MSVOA_N

ClientSampleId :

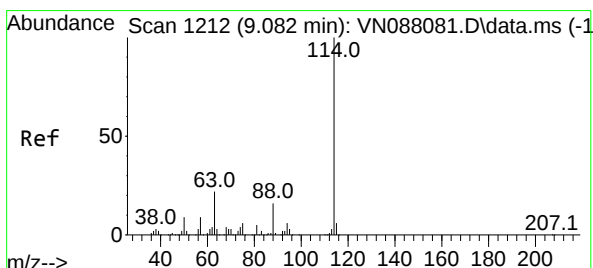
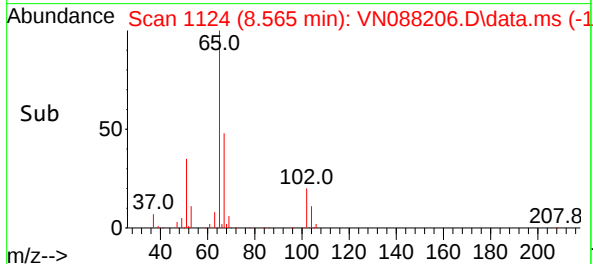
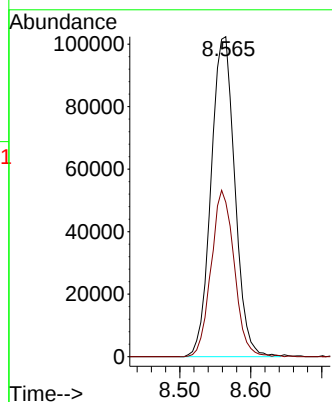
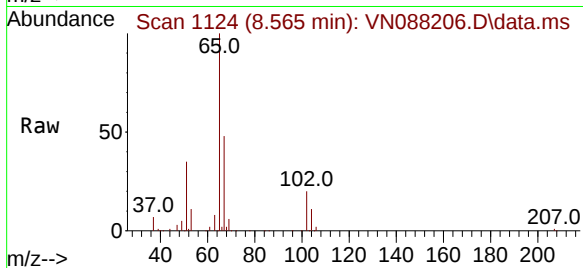
TP-1

Tgt Ion: 65 Resp: 237460

Ion Ratio Lower Upper

65 100

67 50.6 0.0 100.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 1212

Delta R.T. -0.000 min

Lab File: VN088206.D

Acq: 06 Nov 2025 15:10

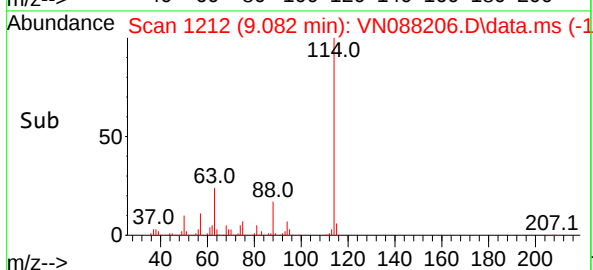
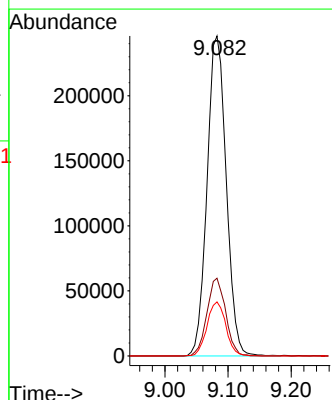
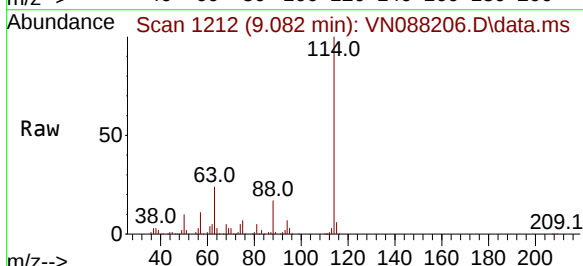
Tgt Ion: 114 Resp: 519367

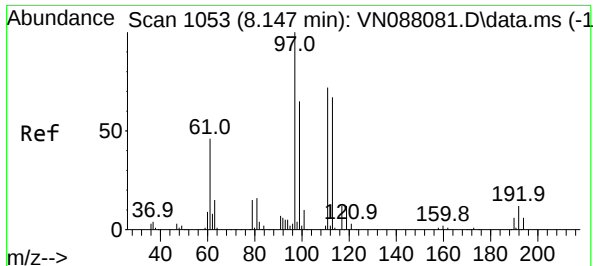
Ion Ratio Lower Upper

114 100

63 24.3 0.0 45.2

88 16.9 0.0 33.4

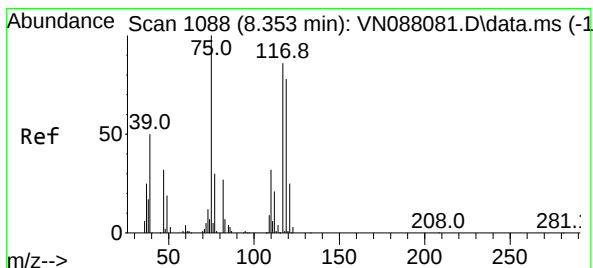
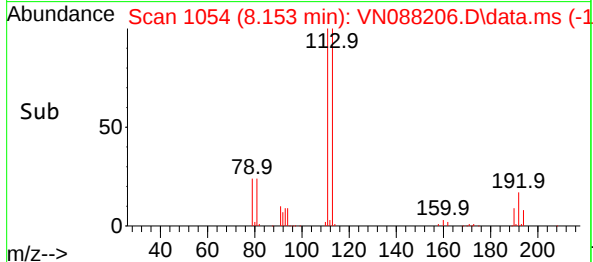
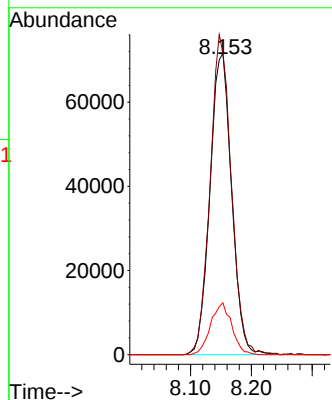
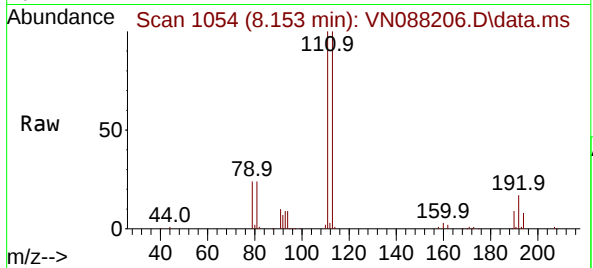




#35
Dibromofluoromethane
Concen: 50.648 ug/l
RT: 8.153 min Scan# 1054
Delta R.T. -0.000 min
Lab File: VN088206.D
Acq: 06 Nov 2025 15:10

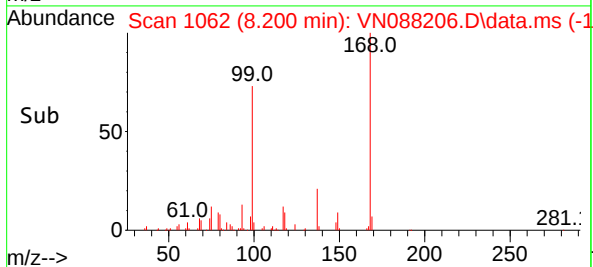
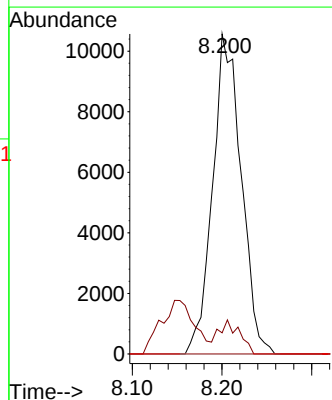
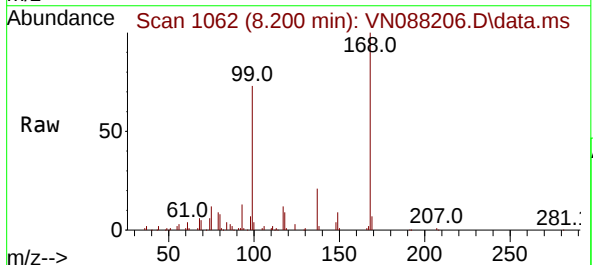
Instrument :
MSVOA_N
ClientSampleId :
TP-1

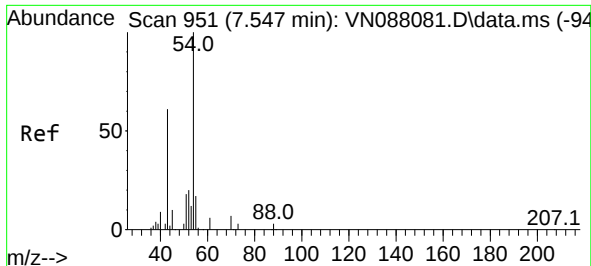
Tgt Ion:113 Resp: 176717
Ion Ratio Lower Upper
113 100
111 104.0 82.8 124.2
192 16.8 12.8 19.2



#36
1,1-Dichloropropene
Concen: 4.582 ug/l
RT: 8.200 min Scan# 1062
Delta R.T. -0.153 min
Lab File: VN088206.D
Acq: 06 Nov 2025 15:10

Tgt Ion: 75 Resp: 23345
Ion Ratio Lower Upper
75 100
110 7.7 15.9 47.6#
77 0.0 24.4 36.6#

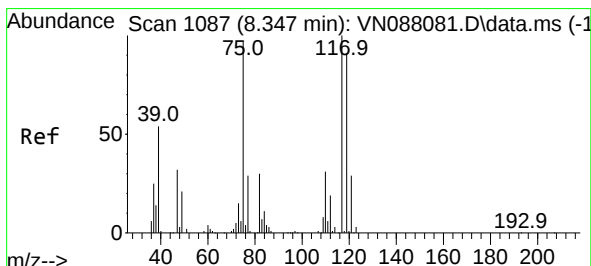
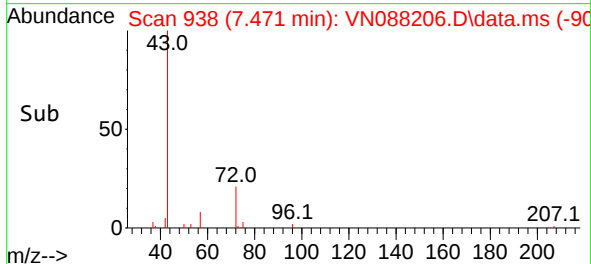
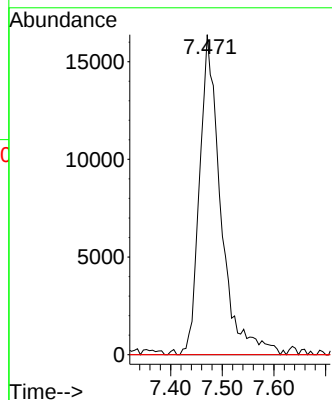
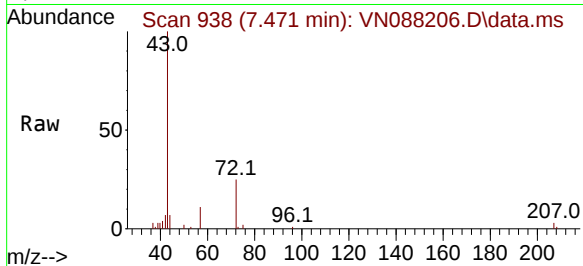




#37
Ethyl Acetate
Concen: 7.116 ug/l
RT: 7.471 min Scan# 91
Delta R.T. -0.077 min
Lab File: VN088206.D
Acq: 06 Nov 2025 15:10

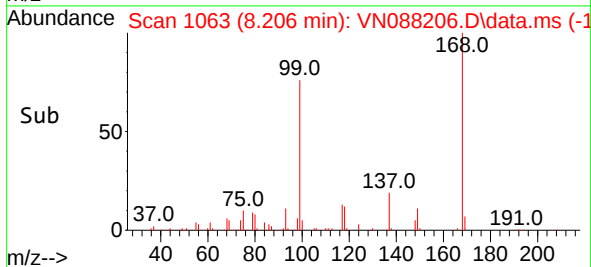
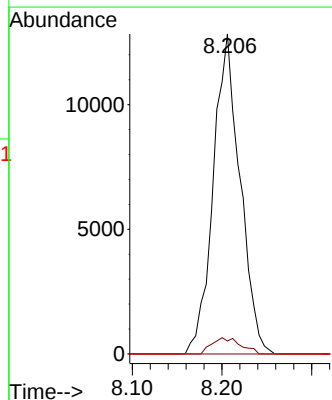
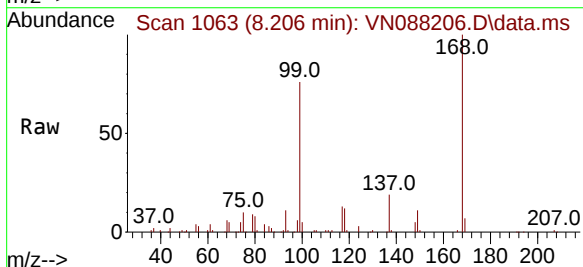
Instrument :
MSVOA_N
ClientSampleId :
TP-1

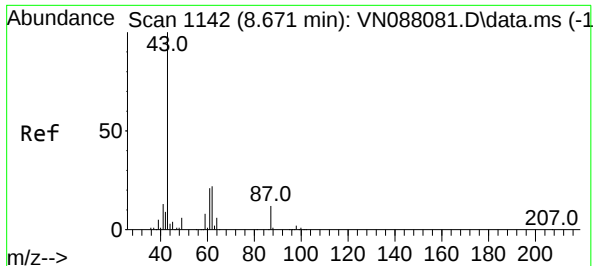
Tgt Ion: 43 Resp: 46781
Ion Ratio Lower Upper
43 100
61 0.0 9.3 13.9#
70 0.0 7.0 10.6#



#38
Carbon Tetrachloride
Concen: 5.062 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.135 min
Lab File: VN088206.D
Acq: 06 Nov 2025 15:10

Tgt Ion: 117 Resp: 26635
Ion Ratio Lower Upper
117 100
119 4.1 79.0 118.6#
121 0.0 25.0 37.6#

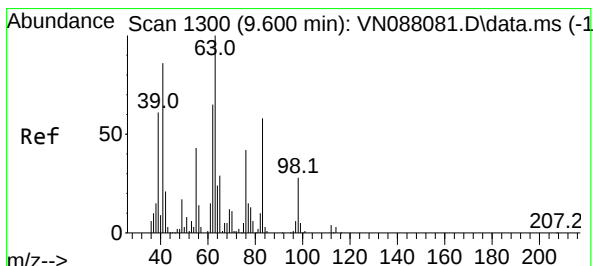
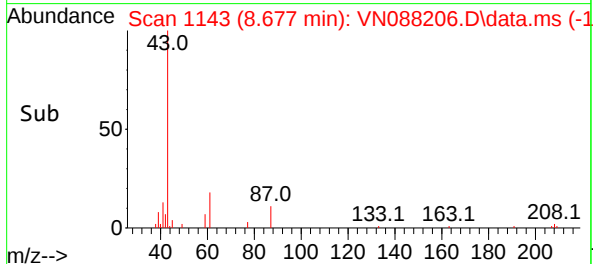
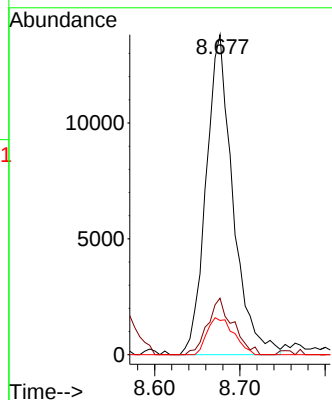
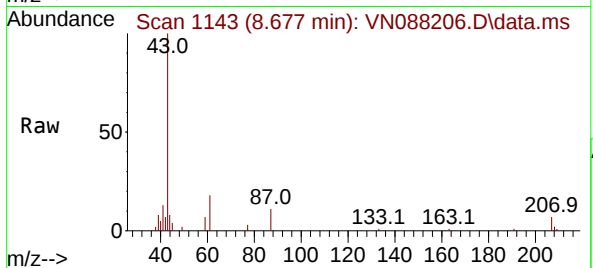




#43
Isopropyl Acetate
Concen: 2.987 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. 0.006 min
Lab File: VN088206.D
Acq: 06 Nov 2025 15:10

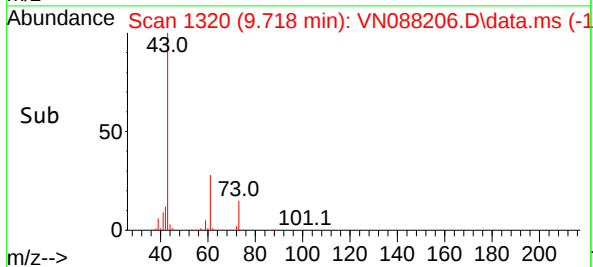
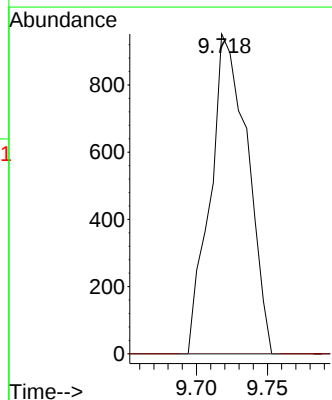
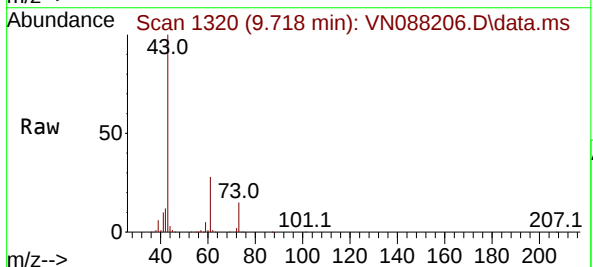
Instrument :
MSVOA_N
ClientSampleId :
TP-1

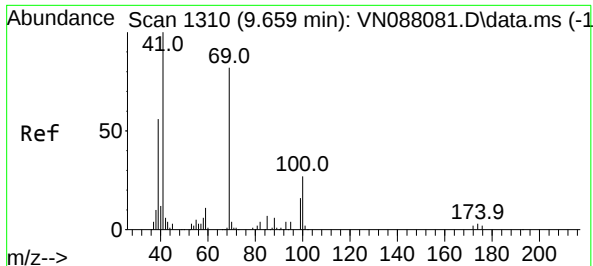
Tgt Ion: 43 Resp: 30171
Ion Ratio Lower Upper
43 100
61 16.8 18.8 28.2#
87 11.5 9.6 14.4



#45
1,2-Dichloropropane
Concen: 0.443 ug/l
RT: 9.718 min Scan# 1320
Delta R.T. 0.118 min
Lab File: VN088206.D
Acq: 06 Nov 2025 15:10

Tgt Ion: 63 Resp: 1736
Ion Ratio Lower Upper
63 100
65 0.0 25.0 37.4#

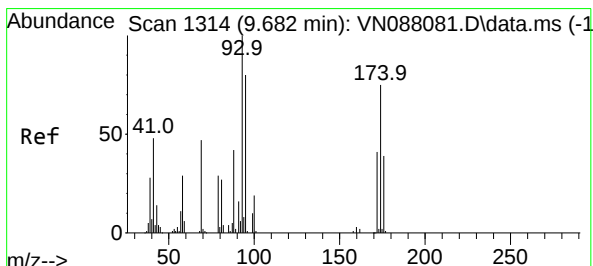
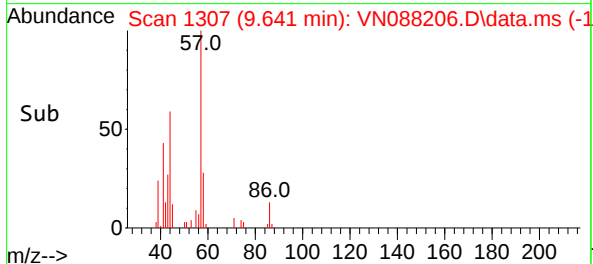
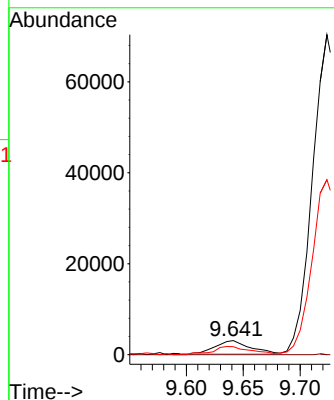
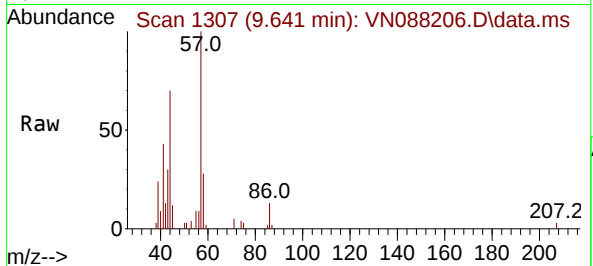




#48
Methyl methacrylate
Concen: 1.287 ug/l
RT: 9.641 min Scan# 11
Delta R.T. -0.024 min
Lab File: VN088206.D
Acq: 06 Nov 2025 15:10

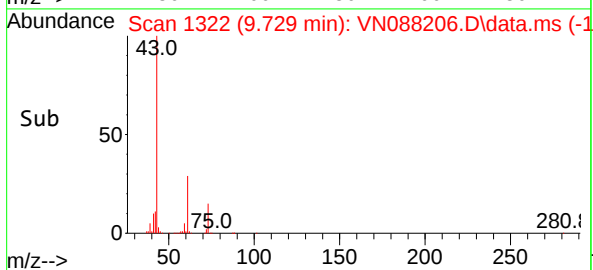
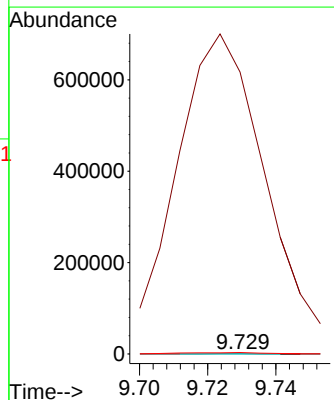
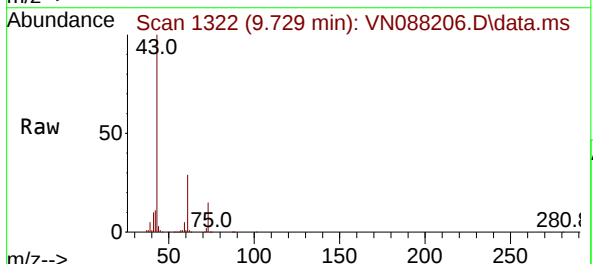
Instrument :
MSVOA_N
ClientSampleId :
TP-1

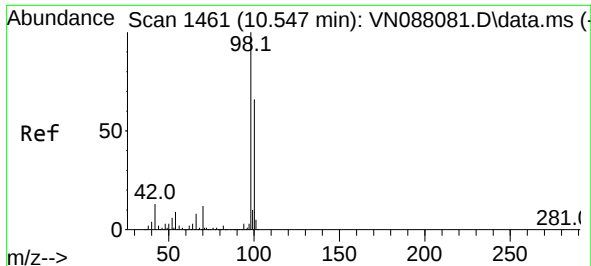
Tgt Ion: 41 Resp: 6005
Ion Ratio Lower Upper
41 100
69 0.0 62.7 94.1#
39 69.0 52.9 79.3



#49
1,4-Dioxane
Concen: 4.051 ug/l
RT: 9.729 min Scan# 1322
Delta R.T. 0.047 min
Lab File: VN088206.D
Acq: 06 Nov 2025 15:10

Tgt Ion: 88 Resp: 235
Ion Ratio Lower Upper
88 100
43 568849.8 0.0 0.0#
58 2595.7 57.9 86.9#

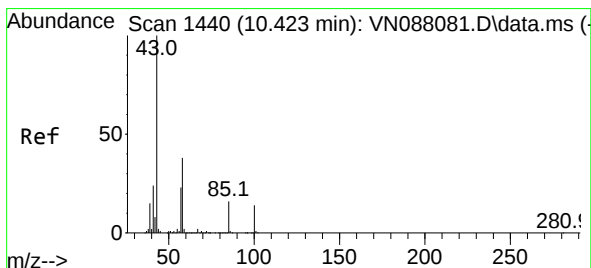
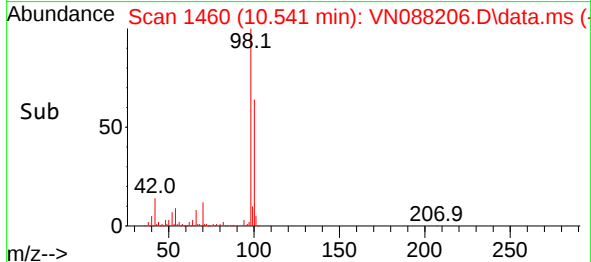
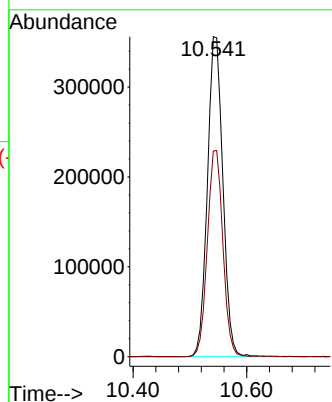
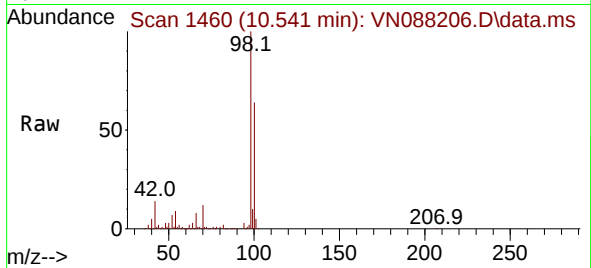




#50
Toluene-d8
Concen: 49.905 ug/l
RT: 10.541 min Scan# 1460
Delta R.T. -0.006 min
Lab File: VN088206.D
Acq: 06 Nov 2025 15:10

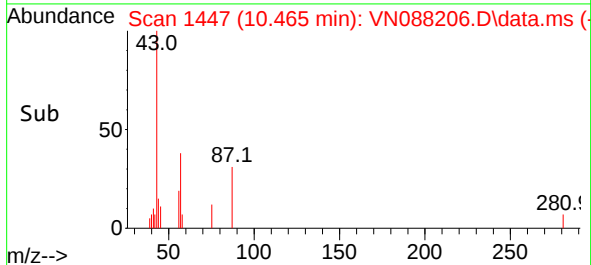
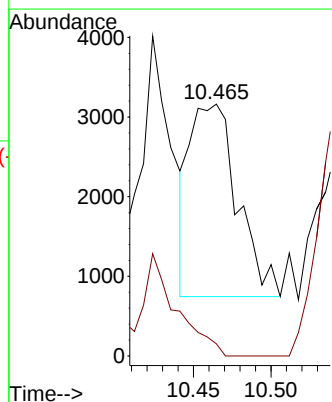
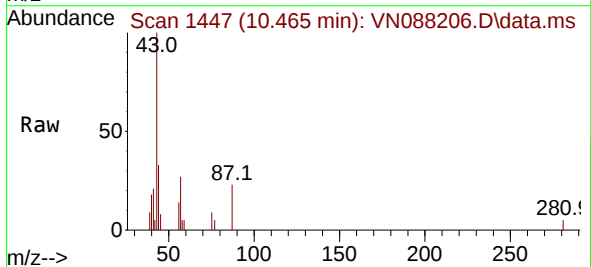
Instrument :
MSVOA_N
ClientSampleId :
TP-1

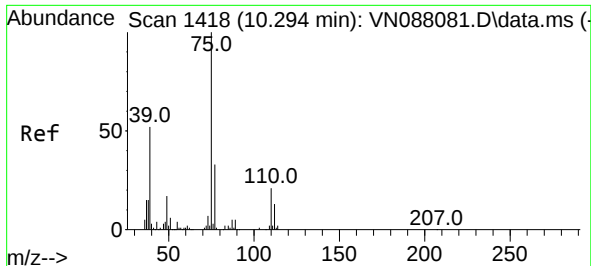
Tgt Ion: 98 Resp: 670928
Ion Ratio Lower Upper
98 100
100 64.6 52.8 79.2



#51
4-Methyl-2-Pentanone
Concen: 0.865 ug/l
RT: 10.465 min Scan# 1447
Delta R.T. 0.041 min
Lab File: VN088206.D
Acq: 06 Nov 2025 15:10

Tgt Ion: 43 Resp: 5169
Ion Ratio Lower Upper
43 100
58 0.0 29.6 44.4#

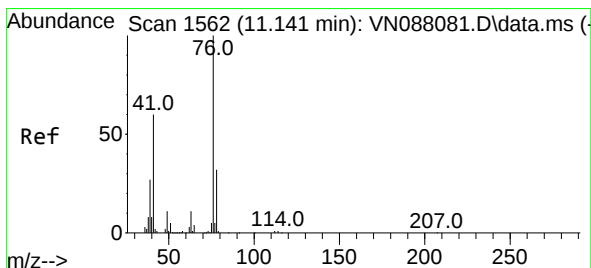
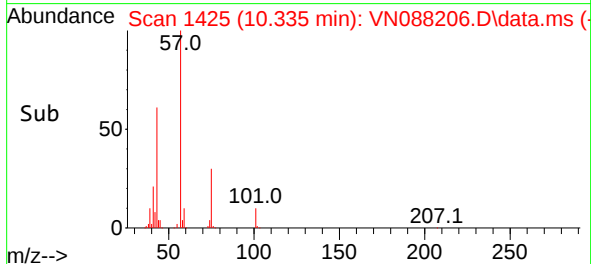
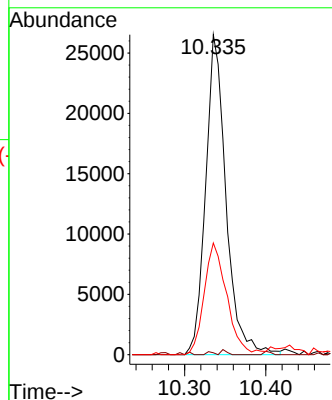
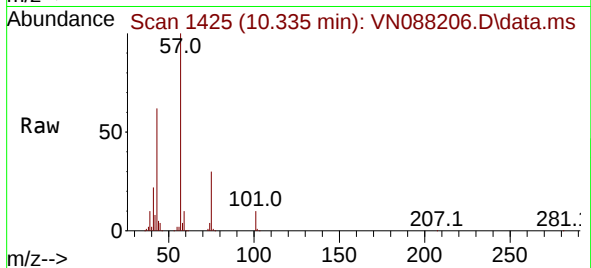




#54
 cis-1,3-Dichloropropene
 Concen: 7.316 ug/l
 RT: 10.335 min Scan# 1418
 Delta R.T. 0.047 min
 Lab File: VN088206.D
 Acq: 06 Nov 2025 15:10

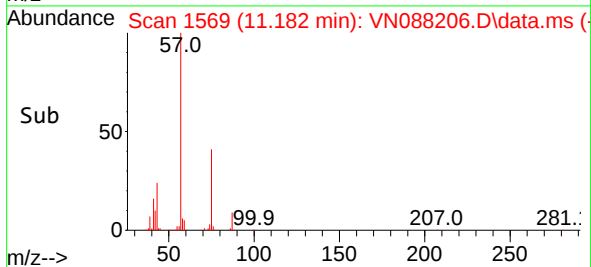
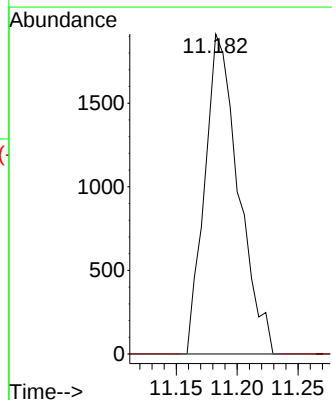
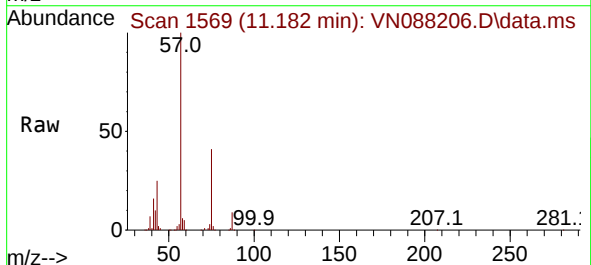
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-1

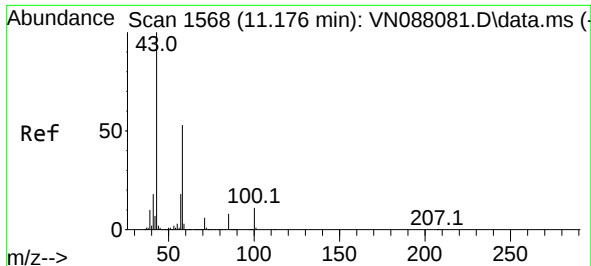
Tgt Ion: 75 Resp: 46211
 Ion Ratio Lower Upper
 75 100
 77 0.6 24.6 37.0#
 39 34.9 45.2 67.8#



#57
 1,3-Dichloropropane
 Concen: 0.578 ug/l
 RT: 11.182 min Scan# 1569
 Delta R.T. 0.041 min
 Lab File: VN088206.D
 Acq: 06 Nov 2025 15:10

Tgt Ion: 76 Resp: 3689
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.2 39.4#

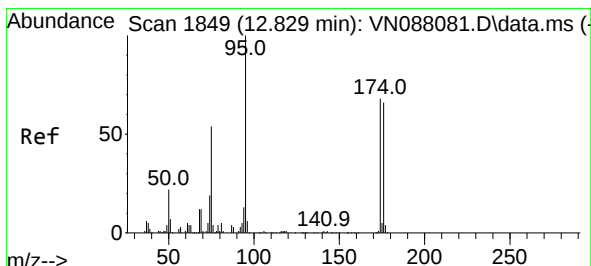
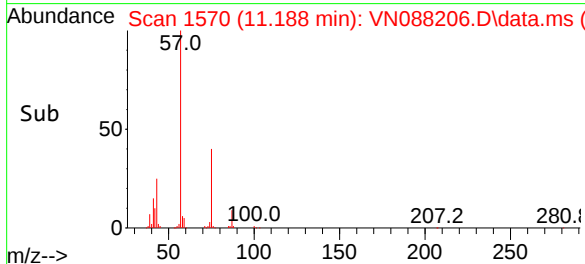
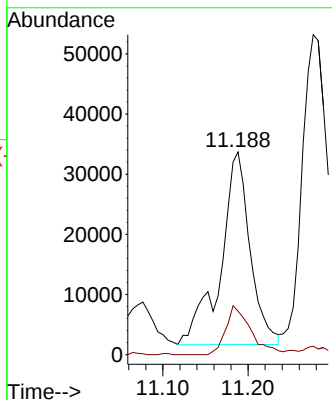
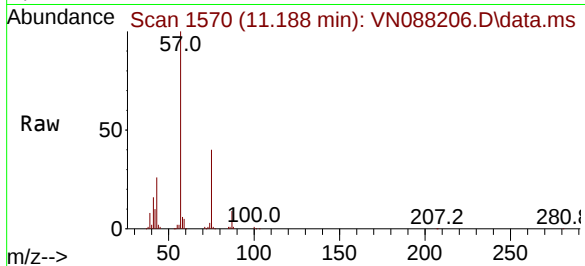




#59
2-Hexanone
Concen: 19.435 ug/l
RT: 11.188 min Scan# 1568
Delta R.T. 0.012 min
Lab File: VN088206.D
Acq: 06 Nov 2025 15:10

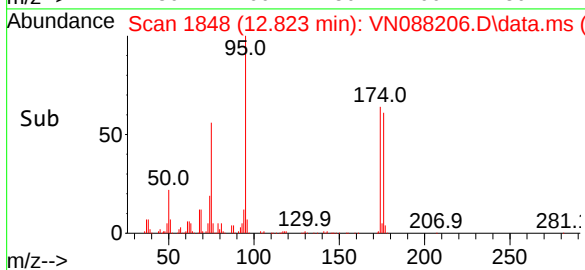
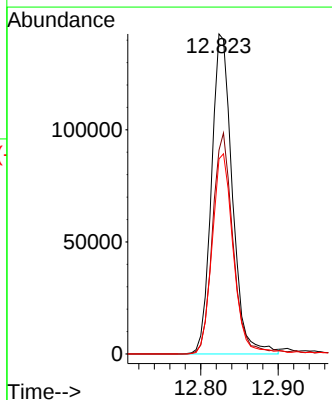
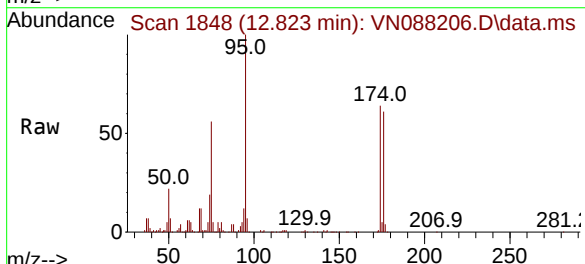
Instrument :
MSVOA_N
ClientSampleId :
TP-1

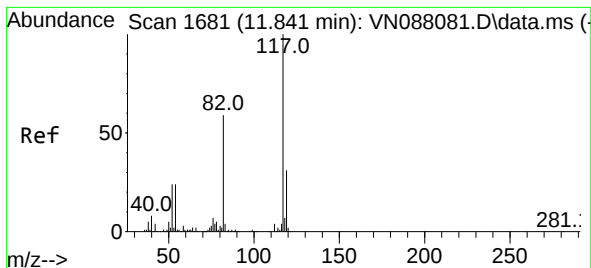
Tgt Ion: 43 Resp: 77053
Ion Ratio Lower Upper
43 100
58 21.5 25.9 77.8#



#62
4-Bromofluorobenzene
Concen: 56.232 ug/l
RT: 12.823 min Scan# 1848
Delta R.T. -0.000 min
Lab File: VN088206.D
Acq: 06 Nov 2025 15:10

Tgt Ion: 95 Resp: 266991
Ion Ratio Lower Upper
95 100
174 68.2 0.0 138.4
176 63.7 0.0 132.6

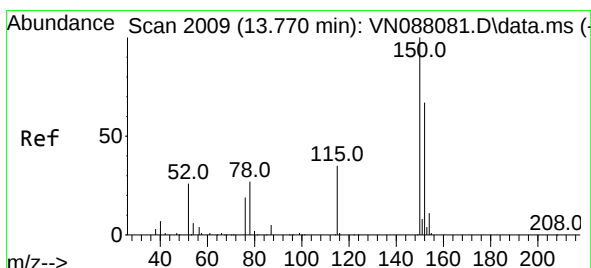
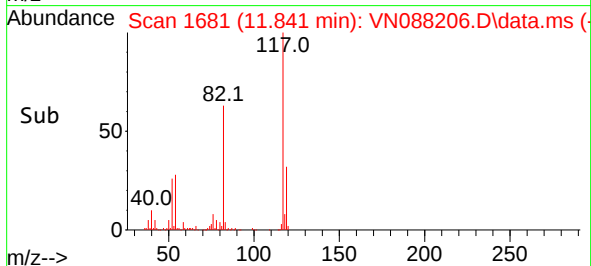
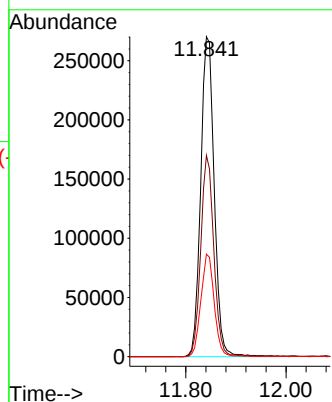
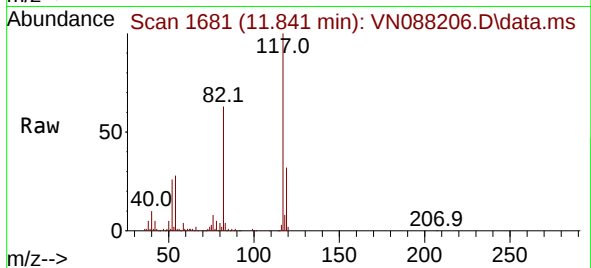




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088206.D
Acq: 06 Nov 2025 15:10

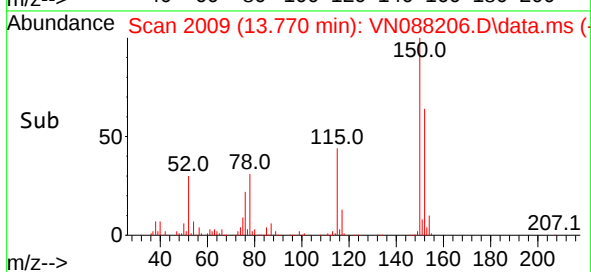
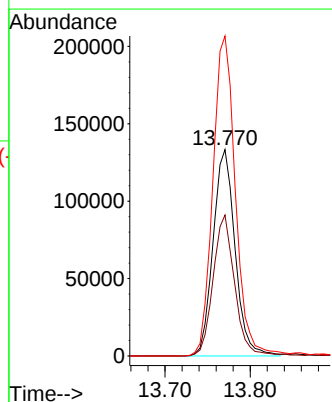
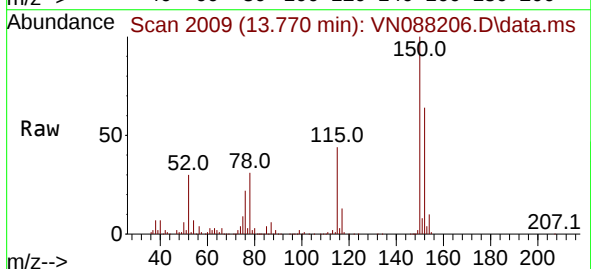
Instrument :
MSVOA_N
ClientSampleId :
TP-1

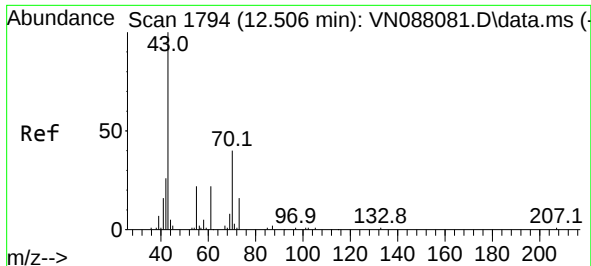
Tgt Ion:117 Resp: 506591
Ion Ratio Lower Upper
117 100
82 62.9 47.4 71.2
119 32.1 24.3 36.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. 0.006 min
Lab File: VN088206.D
Acq: 06 Nov 2025 15:10

Tgt Ion:152 Resp: 239334
Ion Ratio Lower Upper
152 100
115 67.0 32.3 96.8
150 158.5 0.0 351.0

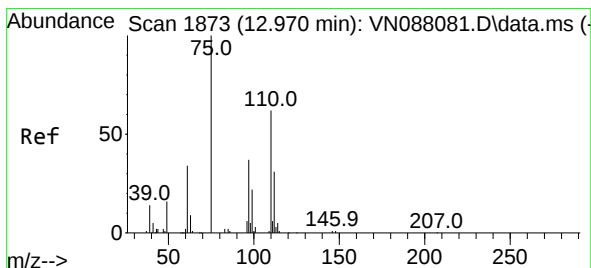
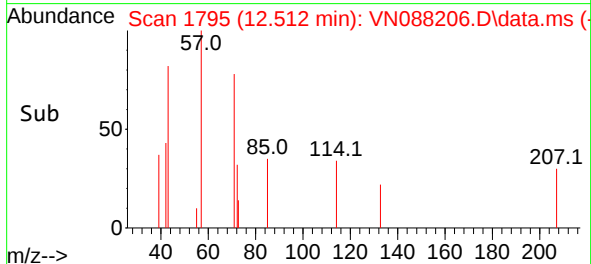
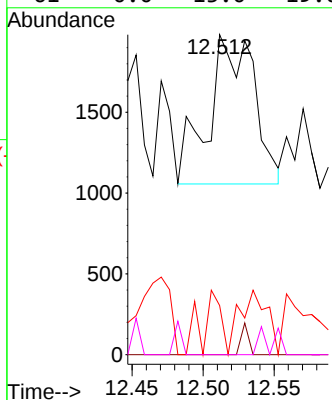
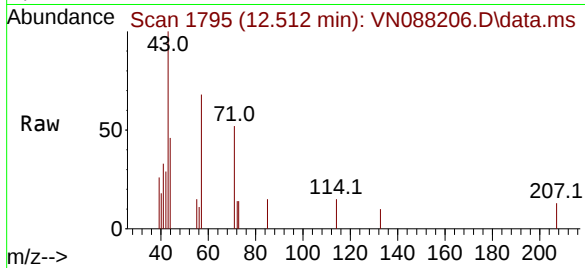




#74
N-amy1 acetate
Concen: 0.393 ug/l
RT: 12.512 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN088206.D
Acq: 06 Nov 2025 15:10

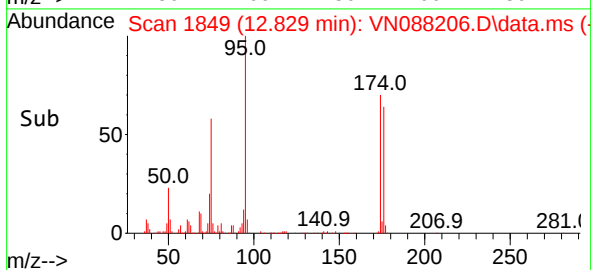
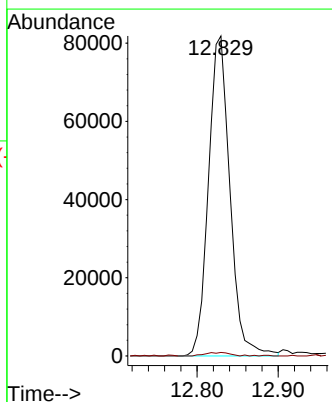
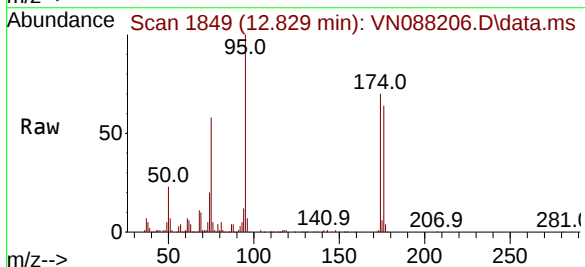
Instrument :
MSVOA_N
ClientSampleId :
TP-1

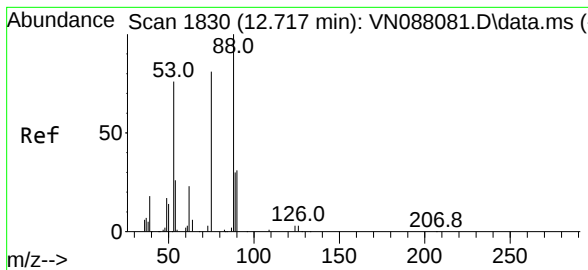
Tgt Ion: 43 Resp: 2061
Ion Ratio Lower Upper
43 100
70 0.0 27.6 41.4#
55 17.7 13.0 19.6
61 0.0 13.0 19.6#



#76
1,2,3-Trichloropropane
Concen: 27.468 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.141 min
Lab File: VN088206.D
Acq: 06 Nov 2025 15:10

Tgt Ion: 75 Resp: 150303
Ion Ratio Lower Upper
75 100
77 1.2 89.1 267.4#





#81
trans-1,4-Dichloro-2-butene
Concen: 76.623 ug/l
RT: 12.829 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN088206.D
Acq: 06 Nov 2025 15:10

Instrument :
MSVOA_N
ClientSampleId :
TP-1

Tgt Ion: 75 Resp: 150303
Ion Ratio Lower Upper
75 100
53 0.0 101.8 152.6#
89 0.1 35.6 53.4#

