

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062725\
 Data File : VN087221.D
 Acq On : 27 Jun 2025 14:53
 Operator : JC\MD
 Sample : Q2430-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MH-E/F

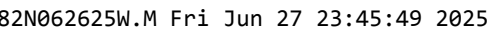
Quant Time: Jun 27 23:45:40 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N062625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 27 05:55:21 2025
 Response via : Initial Calibration

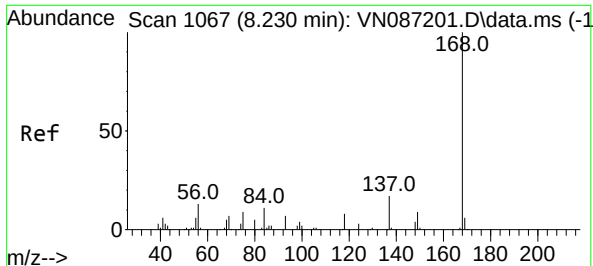
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.229	168	171610	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	343748	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	241748	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	146021	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	130050	52.660	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 105.320%			
35) Dibromofluoromethane	8.171	113	101973	45.885	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 91.760%			
50) Toluene-d8	10.565	98	293024	31.880	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 63.760%#			
62) 4-Bromofluorobenzene	12.847	95	142610	44.714	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 89.420%			
Target Compounds					Qvalue	
11) Tert butyl alcohol	5.530	59	997	1.832	ug/l #	73
14) Allyl chloride	5.059	41	61	Below Cal	#	23
16) Acetone	4.447	43	24393	6.840	ug/l	99
17) Carbon Disulfide	4.724	76	126	Below Cal	#	76
18) Methyl Acetate	5.041	43	23739	7.110	ug/l	100
20) Methylene Chloride	5.306	84	9156	2.411	ug/l	92
25) 2-Butanone	7.494	43	9946	5.312	ug/l #	89
29) Tetrahydrofuran	7.859	42	660	0.538	ug/l #	38
31) Cyclohexane	8.229	56	3587	0.938	ug/l #	1
36) 1,1-Dichloropropene	8.229	75	13906	4.272	ug/l #	49
37) Ethyl Acetate	7.565	43	16211	1.646	ug/l	99
38) Carbon Tetrachloride	8.229	117	17006	5.364	ug/l #	15
43) Isopropyl Acetate	8.688	43	10783	1.802	ug/l #	90
45) 1,2-Dichloropropane	9.747	63	1149	0.443	ug/l #	44
48) Methyl methacrylate	9.741	41	84626	29.249	ug/l #	40
49) 1,4-Dioxane	9.741	88	59	21.063	ug/l #	1
51) 4-Methyl-2-Pentanone	10.453	43	3540	Below Cal	#	79
54) cis-1,3-Dichloropropene	10.359	75	39914	9.535	ug/l #	62
56) Ethyl methacrylate	10.771	69	57	Below Cal	#	28
57) 1,3-Dichloropropane	11.212	76	1980	0.461	ug/l #	43
59) 2-Hexanone	11.176	43	6643	2.495	ug/l #	19
71) Bromoform	12.847	173	744	0.585	ug/l #	1
74) N-amyl acetate	12.553	43	1002	0.272	ug/l #	44
76) 1,2,3-Trichloropropane	12.847	75	72558	22.272	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	72558	49.986	ug/l #	13

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

Quant Time: Jun 27 23:45:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N062625W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 27 05:55:21 2025
Response via : Initial Calibration

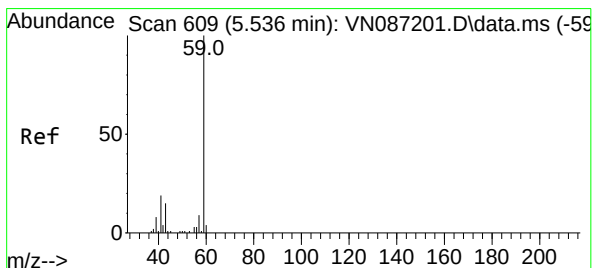
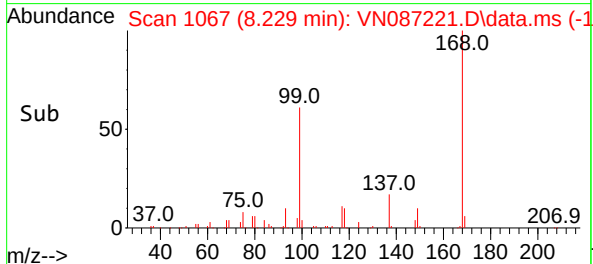
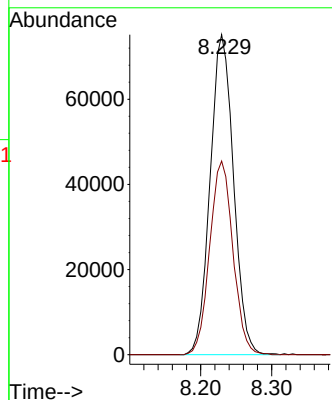
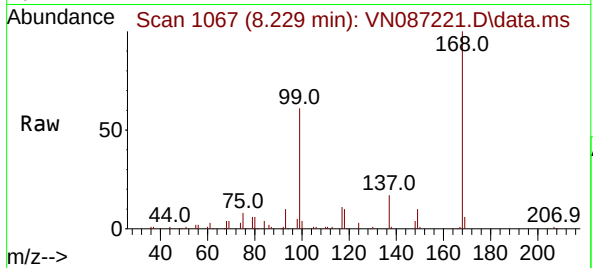




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.001 min
Lab File: VN087221.D
Acq: 27 Jun 2025 14:53

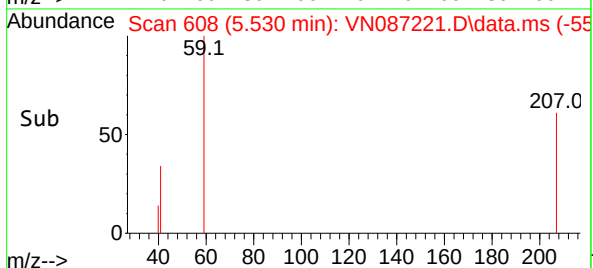
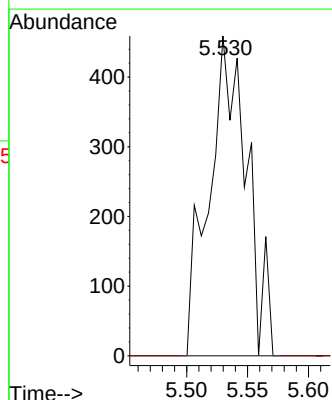
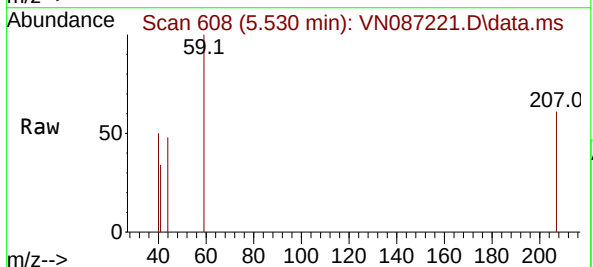
Instrument :
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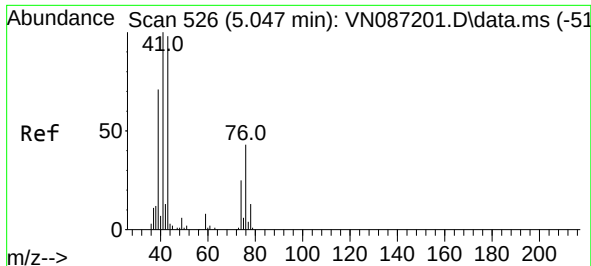
Tgt Ion:168 Resp: 171610
Ion Ratio Lower Upper
168 100
99 60.5 47.9 71.9



#11
Tert butyl alcohol
Concen: 1.832 ug/l
RT: 5.530 min Scan# 608
Delta R.T. -0.006 min
Lab File: VN087221.D
Acq: 27 Jun 2025 14:53

Tgt Ion: 59 Resp: 997
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#

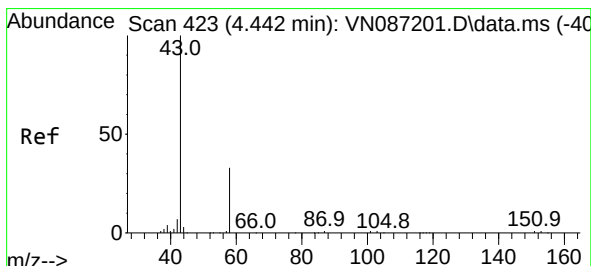
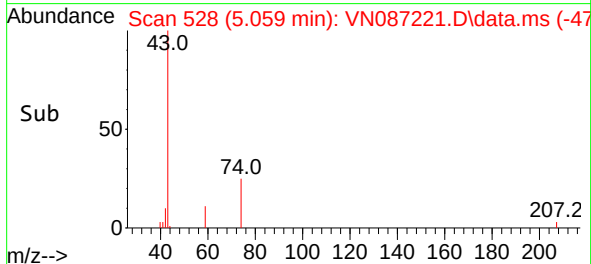
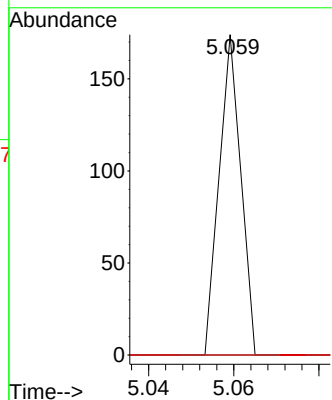
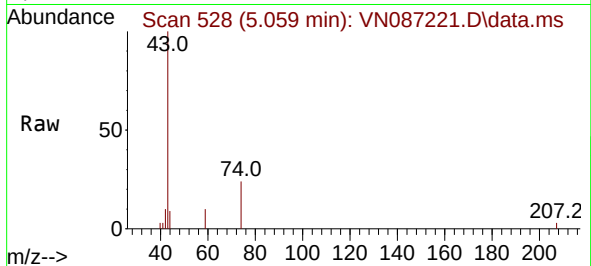




#14
 Allyl chloride
 Concen: Below Cal
 RT: 5.059 min Scan# 51
 Delta R.T. 0.012 min
 Lab File: VN087221.D
 Acq: 27 Jun 2025 14:53

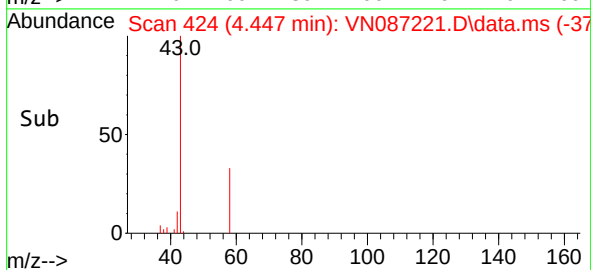
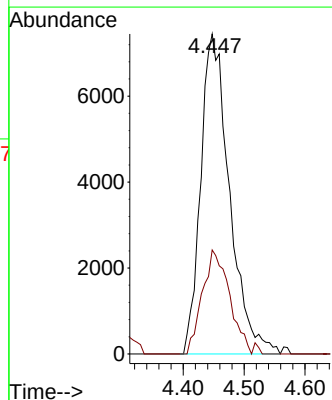
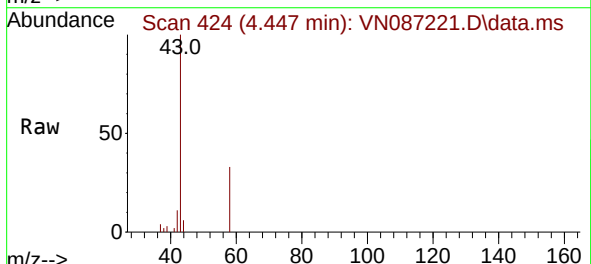
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 ClientSampleId :
 MH-E/F

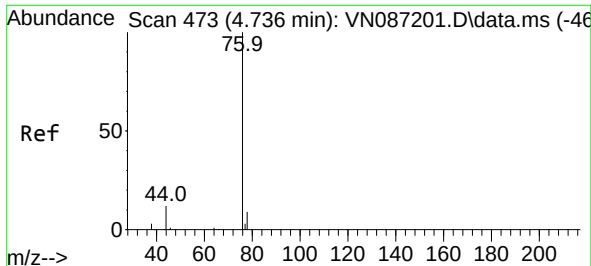
Tgt Ion: 41 Resp: 61
 Ion Ratio Lower Upper
 41 100
 39 0.0 55.0 82.6#
 76 0.0 31.3 46.9#



#16
 Acetone
 Concen: 6.840 ug/l
 RT: 4.447 min Scan# 424
 Delta R.T. 0.005 min
 Lab File: VN087221.D
 Acq: 27 Jun 2025 14:53

Tgt Ion: 43 Resp: 24393
 Ion Ratio Lower Upper
 43 100
 58 32.5 26.5 39.7

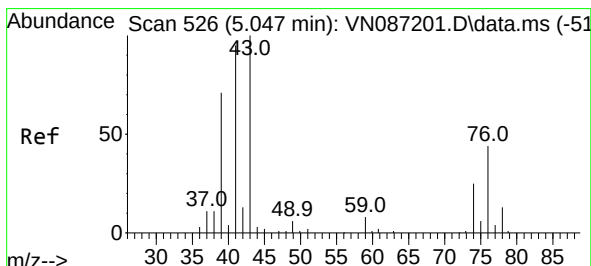
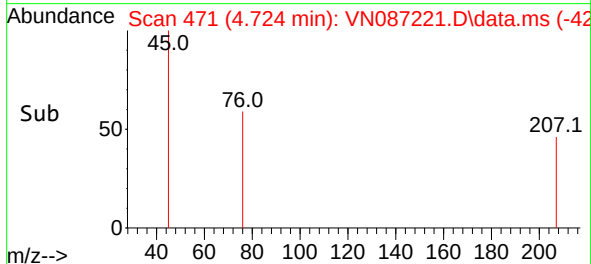
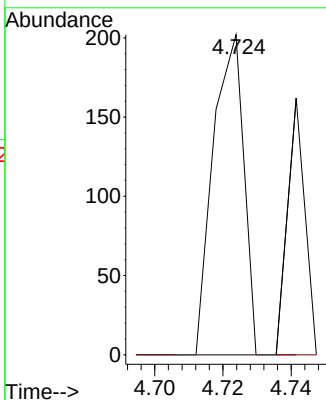
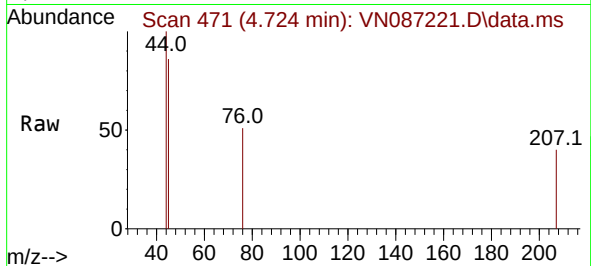




#17
Carbon Disulfide
Concen: Below Cal
RT: 4.724 min Scan# 471
Delta R.T. -0.012 min
Lab File: VN087221.D
Acq: 27 Jun 2025 14:53

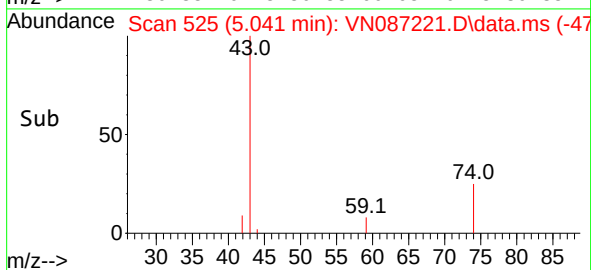
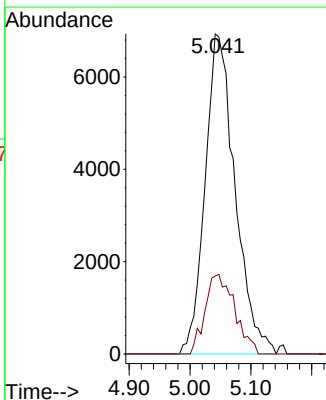
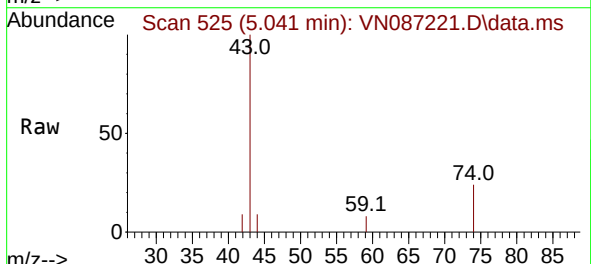
Instrument :
MSVOA_N
ClientSampleId :
MH-E/F

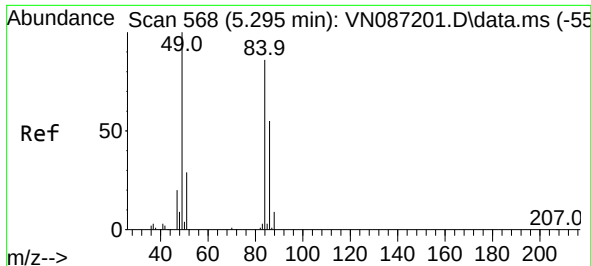
Tgt Ion: 76 Resp: 126
Ion Ratio Lower Upper
76 100
78 0.0 7.0 10.6#



#18
Methyl Acetate
Concen: 7.110 ug/l
RT: 5.041 min Scan# 525
Delta R.T. -0.006 min
Lab File: VN087221.D
Acq: 27 Jun 2025 14:53

Tgt Ion: 43 Resp: 23739
Ion Ratio Lower Upper
43 100
74 24.5 19.4 29.2

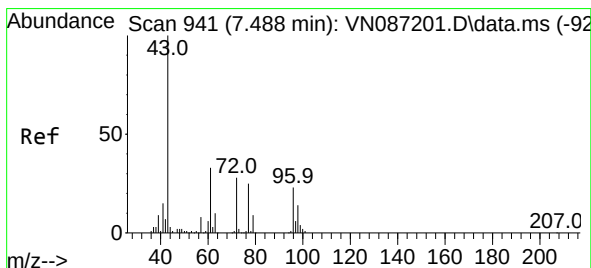
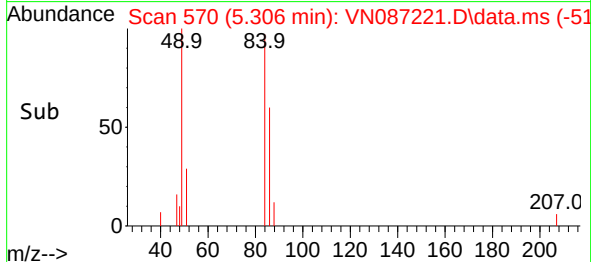
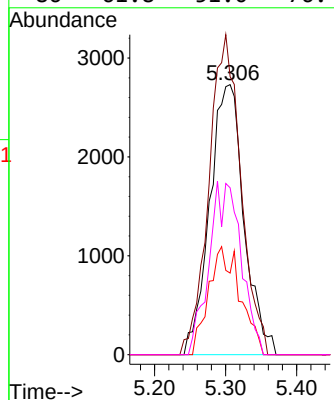
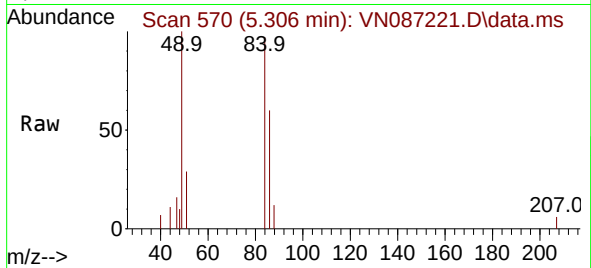




#20
Methylene Chloride
Concen: 2.411 ug/l
RT: 5.306 min Scan# 51
Delta R.T. 0.011 min
Lab File: VN087221.D
Acq: 27 Jun 2025 14:53

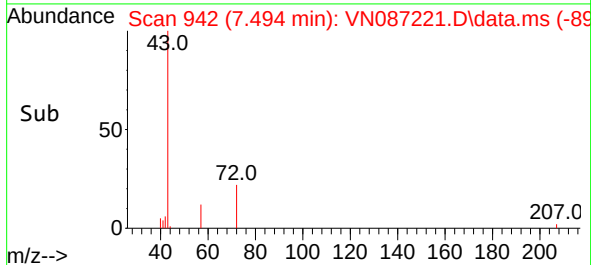
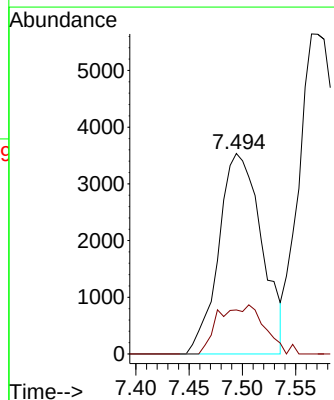
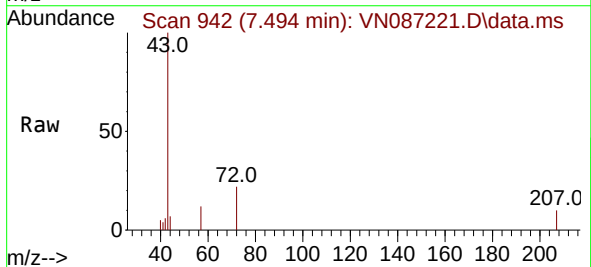
Instrument :
MSVOA_N
ClientSampleId :
MH-E/F

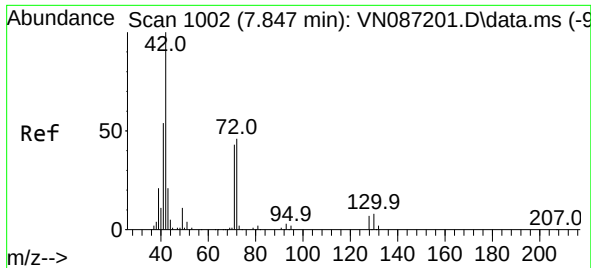
Tgt Ion:	84	Resp:	9156
Ion	Ratio	Lower	Upper
84	100		
49	103.0	93.0	139.6
51	30.2	27.2	40.8
86	61.8	51.0	76.4



#25
2-Butanone
Concen: 5.312 ug/l
RT: 7.494 min Scan# 942
Delta R.T. 0.006 min
Lab File: VN087221.D
Acq: 27 Jun 2025 14:53

Tgt Ion:	43	Resp:	9946
Ion	Ratio	Lower	Upper
43	100		
72	21.9	22.2	33.2#





#29

Tetrahydrofuran

Concen: 0.538 ug/l

RT: 7.859 min Scan# 1067

Delta R.T. 0.012 min

Lab File: VN087221.D

Acq: 27 Jun 2025 14:53

Instrument :

MSVOA_N

ClientSampleId :

MH-E/F

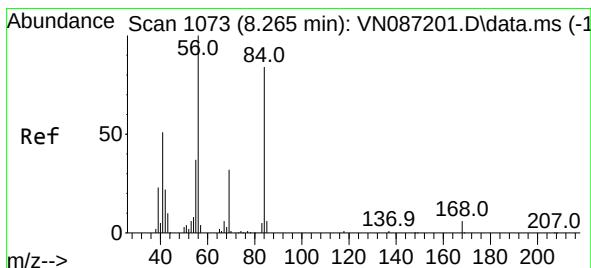
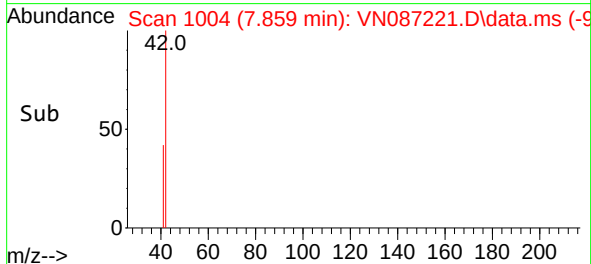
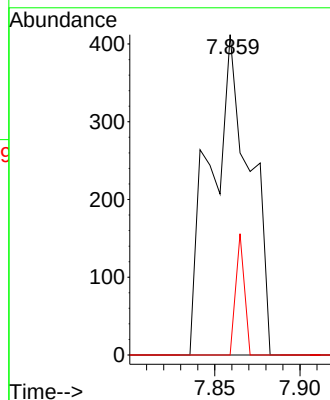
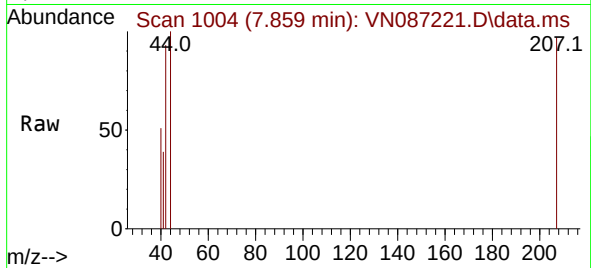
Tgt Ion: 42 Resp: 660

Ion Ratio Lower Upper

42 100

72 0.0 36.9 55.3#

71 8.3 35.0 52.4#



#31

Cyclohexane

Concen: 0.938 ug/l

RT: 8.229 min Scan# 1067

Delta R.T. -0.035 min

Lab File: VN087221.D

Acq: 27 Jun 2025 14:53

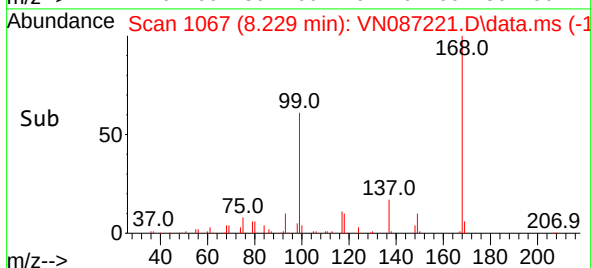
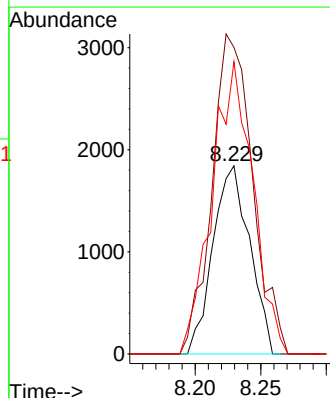
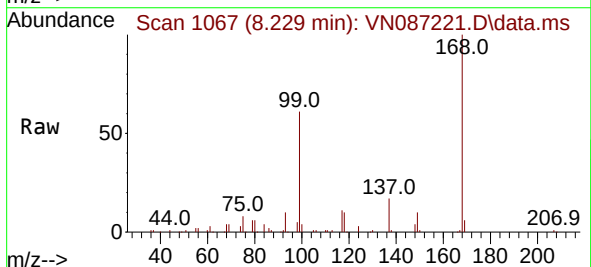
Tgt Ion: 56 Resp: 3587

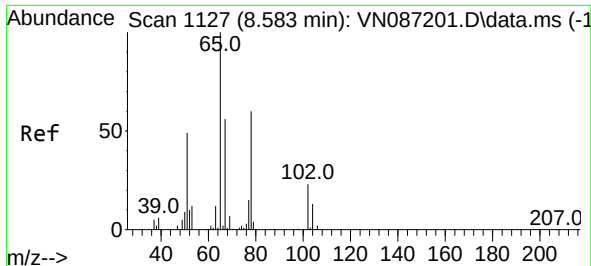
Ion Ratio Lower Upper

56 100

69 162.9 25.3 37.9#

84 155.2 67.4 101.0#

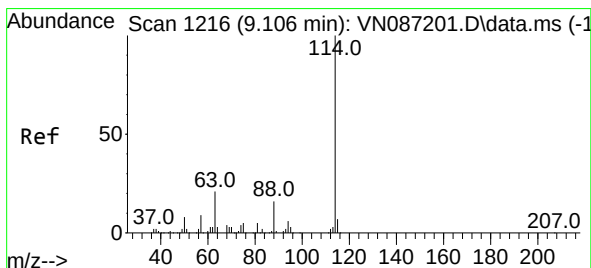
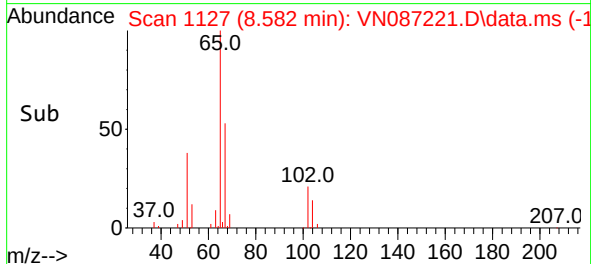
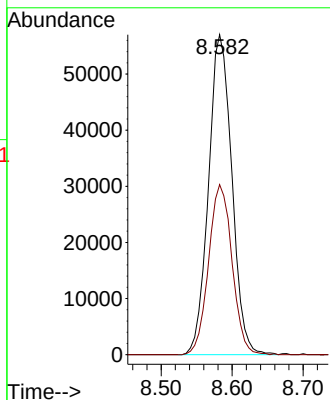
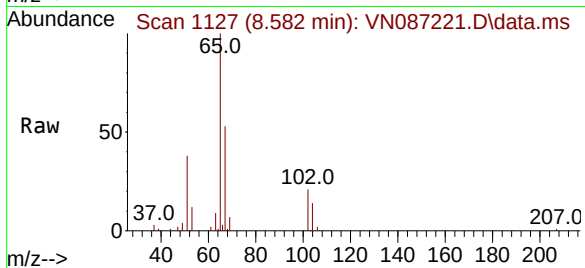




#33
1,2-Dichloroethane-d4
Concen: 52.660 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. -0.000 min
Lab File: VN087221.D
Acq: 27 Jun 2025 14:53

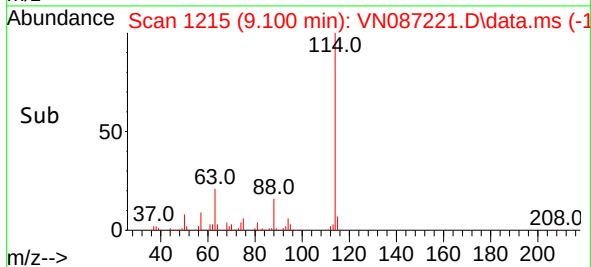
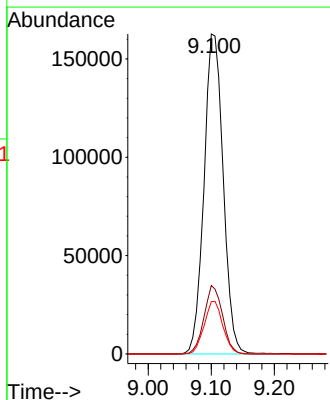
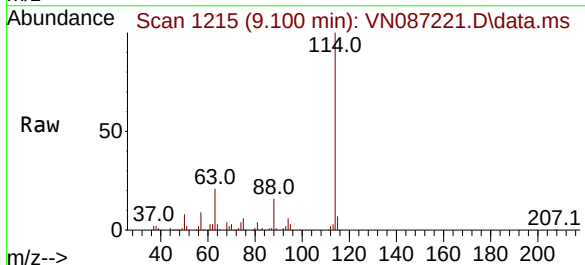
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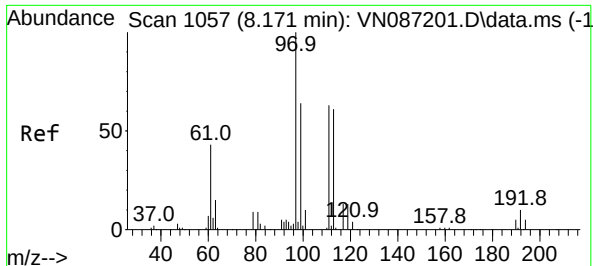
Tgt Ion: 65 Resp: 130050
Ion Ratio Lower Upper
65 100
67 53.4 0.0 108.0



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. -0.006 min
Lab File: VN087221.D
Acq: 27 Jun 2025 14:53

Tgt Ion: 114 Resp: 343748
Ion Ratio Lower Upper
114 100
63 21.4 0.0 42.0
88 16.4 0.0 32.0

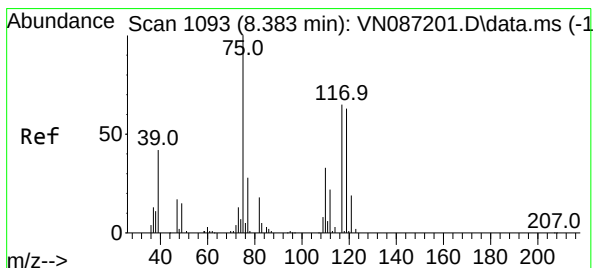
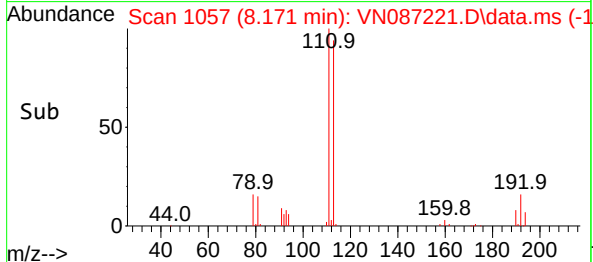
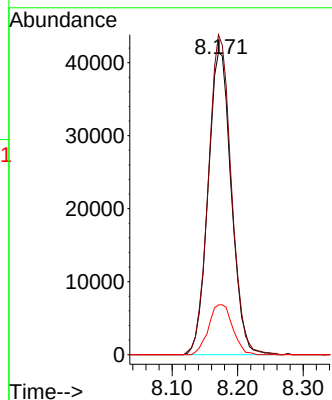
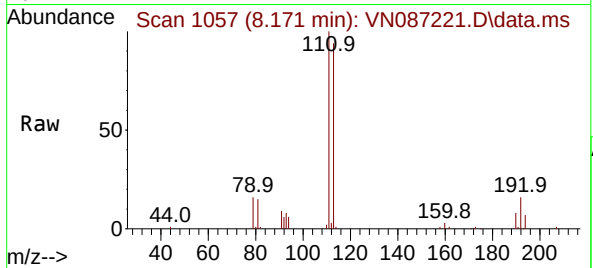




#35
Dibromofluoromethane
Concen: 45.885 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. -0.000 min
Lab File: VN087221.D
Acq: 27 Jun 2025 14:53

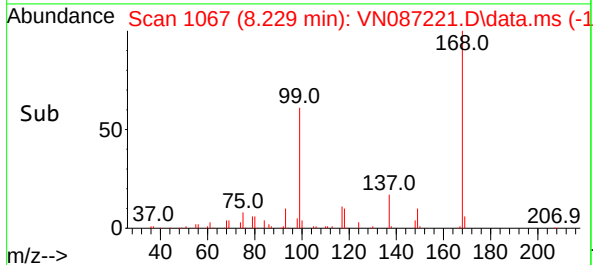
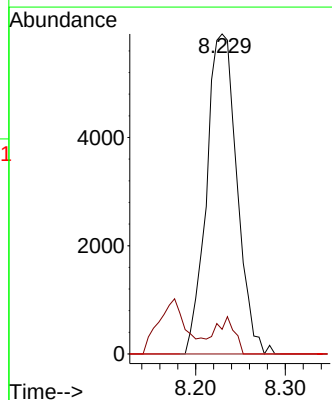
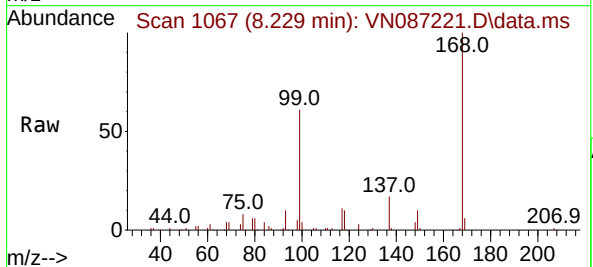
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MSVOA_N
ClientSampleId :
MH-E/F

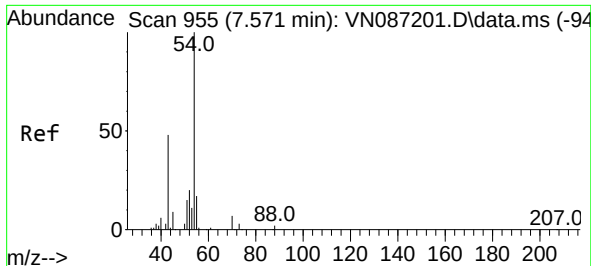
Tgt Ion: 113 Resp: 101973
Ion Ratio Lower Upper
113 100
111 104.3 82.6 124.0
192 17.1 13.5 20.3



#36
1,1-Dichloropropene
Concen: 4.272 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.153 min
Lab File: VN087221.D
Acq: 27 Jun 2025 14:53

Tgt Ion: 75 Resp: 13906
Ion Ratio Lower Upper
75 100
110 7.1 16.9 50.6#
77 0.0 24.7 37.1#





#37

Ethyl Acetate

Concen: 1.646 ug/l

RT: 7.565 min Scan# 91

Delta R.T. -0.006 min

Lab File: VN087221.D

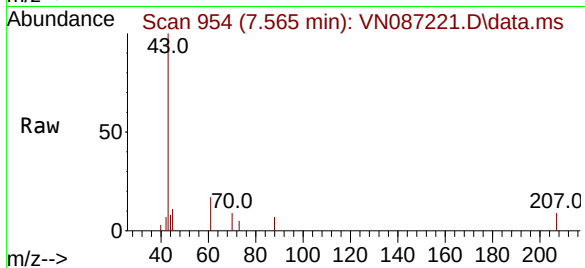
Acq: 27 Jun 2025 14:53

Instrument :

MSVOA_N

ClientSampleId :

MH-E/F



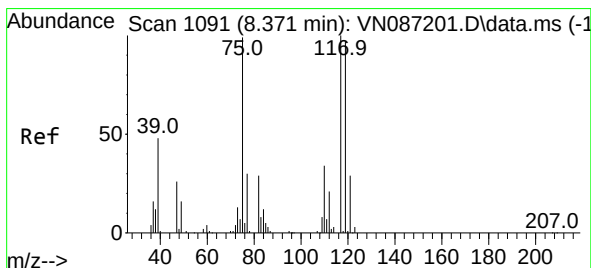
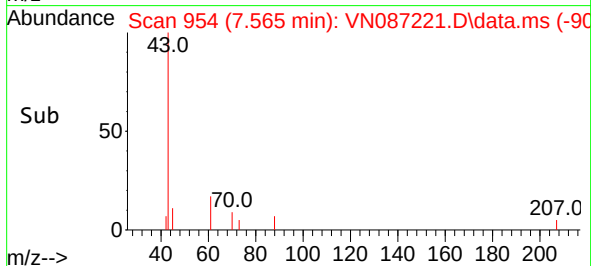
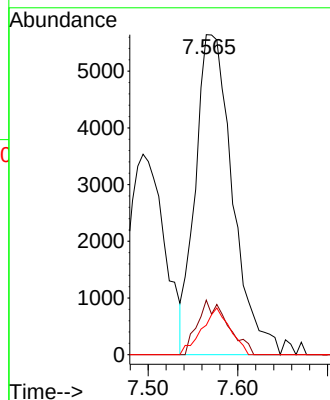
Tgt Ion: 43 Resp: 16211

Ion Ratio Lower Upper

43 100

61 13.9 10.8 16.2

70 11.1 8.9 13.3



#38

Carbon Tetrachloride

Concen: 5.364 ug/l

RT: 8.229 min Scan# 1067

Delta R.T. -0.141 min

Lab File: VN087221.D

Acq: 27 Jun 2025 14:53

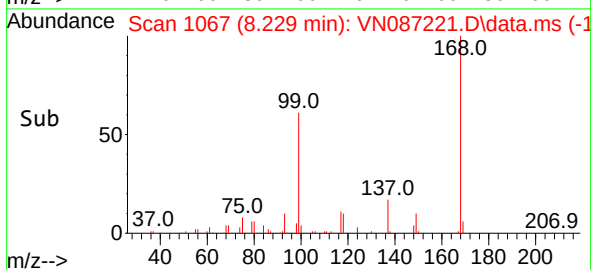
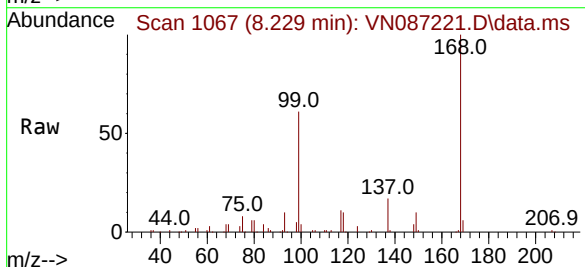
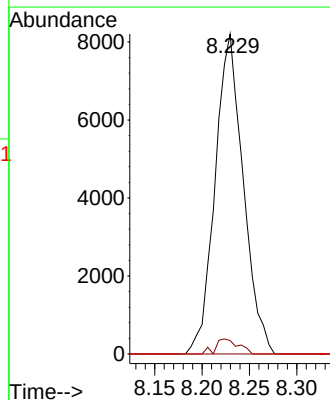
Tgt Ion: 117 Resp: 17006

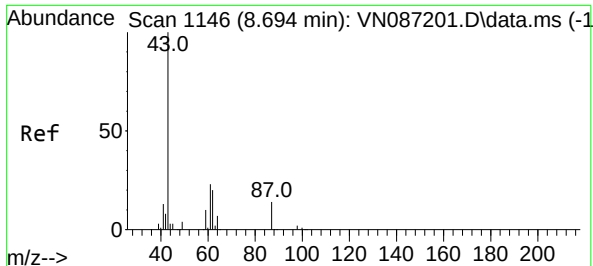
Ion Ratio Lower Upper

117 100

119 4.2 77.4 116.0#

121 0.0 23.2 34.8#

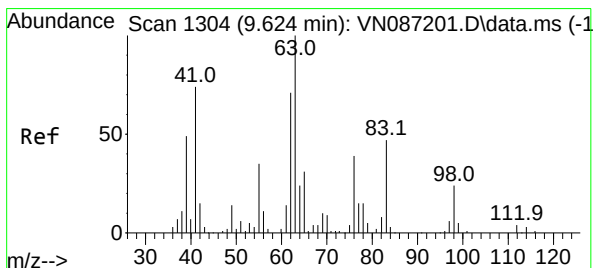
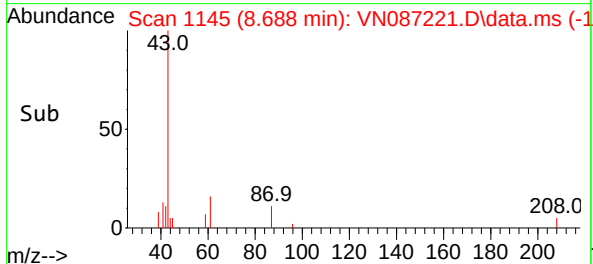
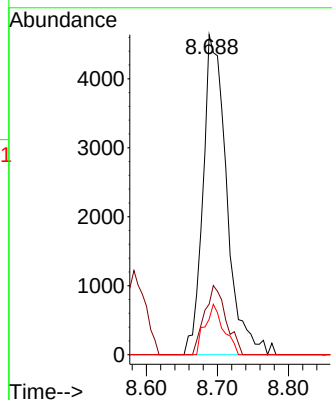
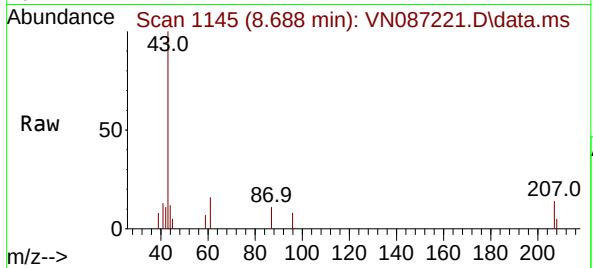




#43
Isopropyl Acetate
Concen: 1.802 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. -0.006 min
Lab File: VN087221.D
Acq: 27 Jun 2025 14:53

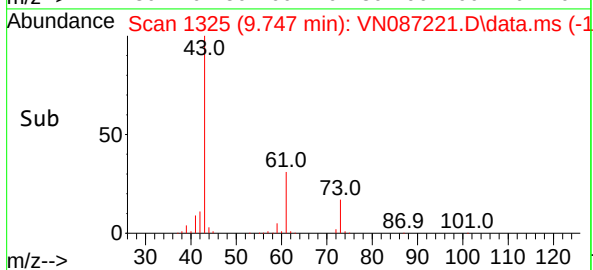
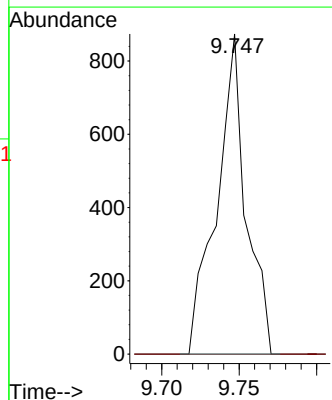
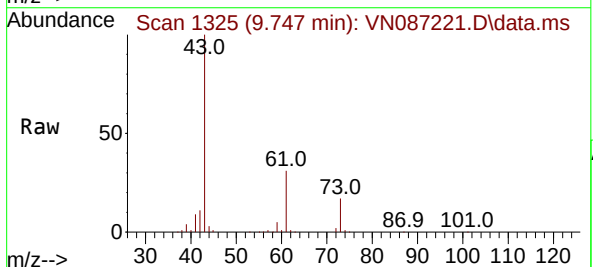
Instrument :
MSVOA_N
ClientSampleId :
MH-E/F

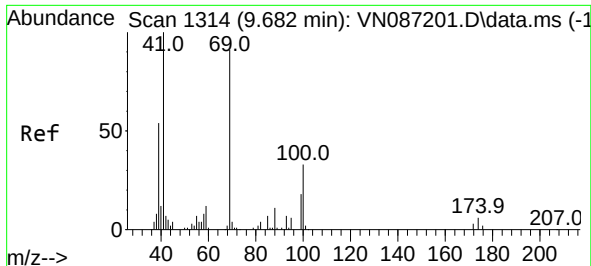
Tgt Ion: 43 Resp: 10783
Ion Ratio Lower Upper
43 100
61 19.7 21.0 31.6#
87 12.3 11.0 16.6



#45
1,2-Dichloropropane
Concen: 0.443 ug/l
RT: 9.747 min Scan# 1325
Delta R.T. 0.123 min
Lab File: VN087221.D
Acq: 27 Jun 2025 14:53

Tgt Ion: 63 Resp: 1149
Ion Ratio Lower Upper
63 100
65 0.0 24.7 37.1#

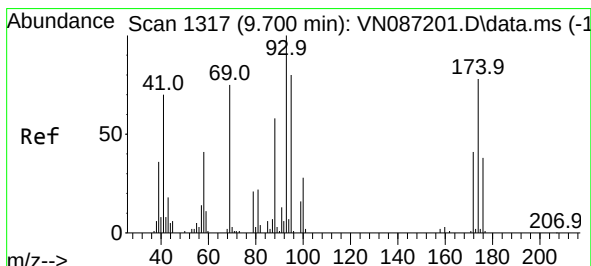
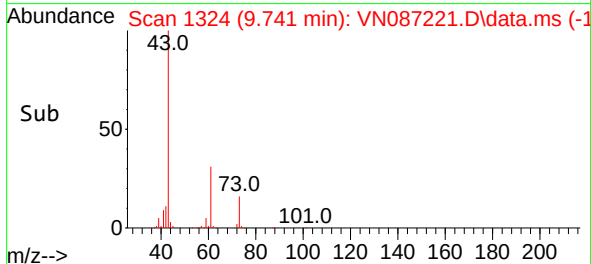
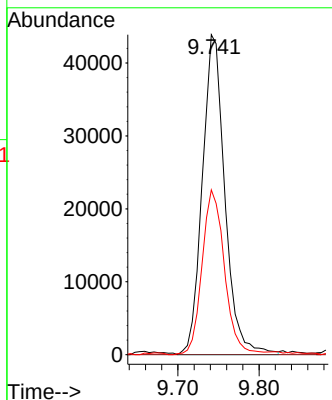
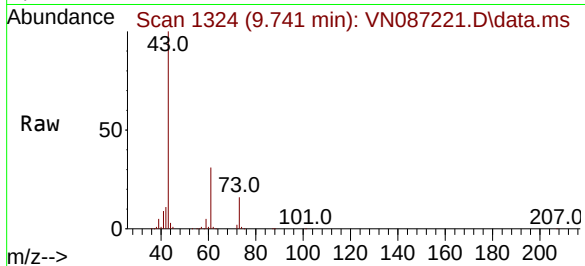




#48
Methyl methacrylate
Concen: 29.249 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.059 min
Lab File: VN087221.D
Acq: 27 Jun 2025 14:53

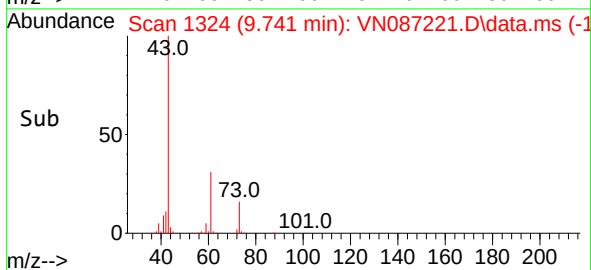
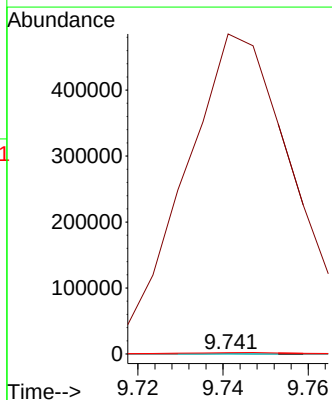
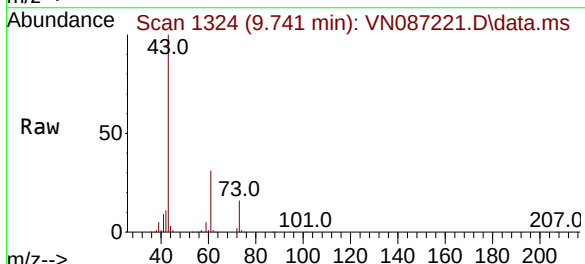
Instrument :
MSVOA_N
ClientSampleId :
MH-E/F

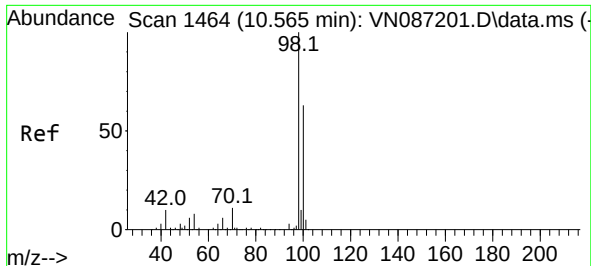
Tgt Ion: 41 Resp: 84626
Ion Ratio Lower Upper
41 100
69 0.0 69.9 104.9#
39 51.2 43.8 65.6



#49
1,4-Dioxane
Concen: 21.063 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.041 min
Lab File: VN087221.D
Acq: 27 Jun 2025 14:53

Tgt Ion: 88 Resp: 59
Ion Ratio Lower Upper
88 100
43 1577191.5 0.0 0.0#
58 6898.3 59.2 88.8#

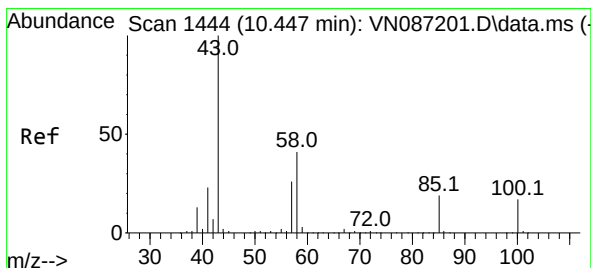
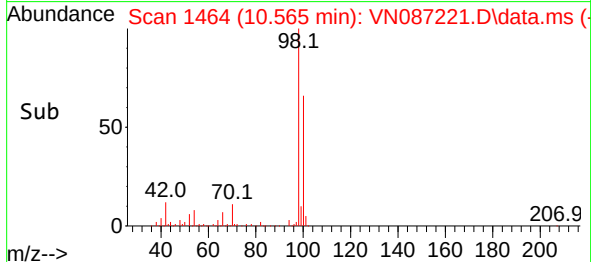
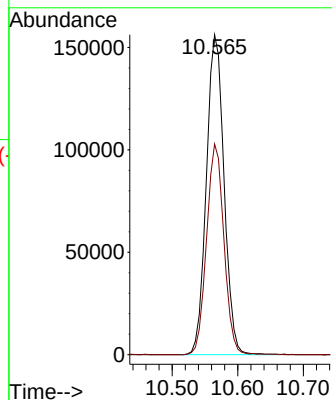
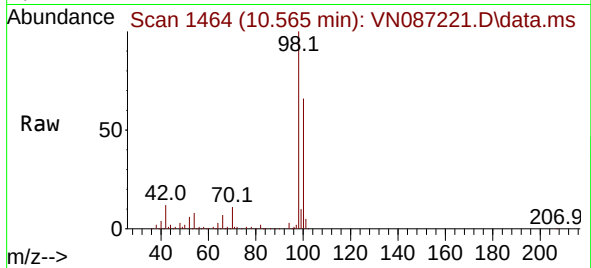




#50
Toluene-d8
Concen: 31.880 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN087221.D
Acq: 27 Jun 2025 14:53

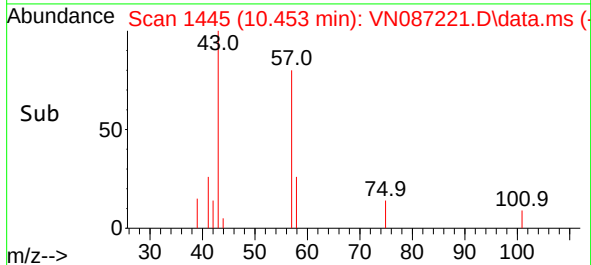
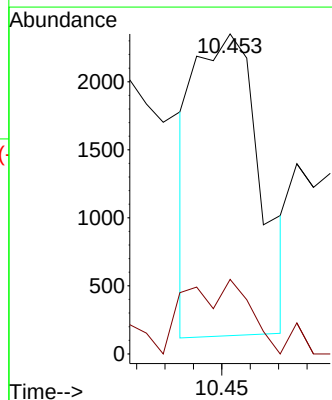
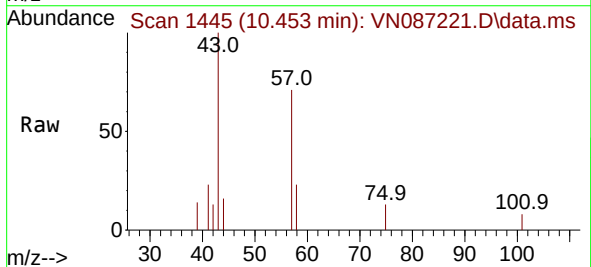
Instrument :
MSVOA_N
ClientSampleId :
MH-E/F

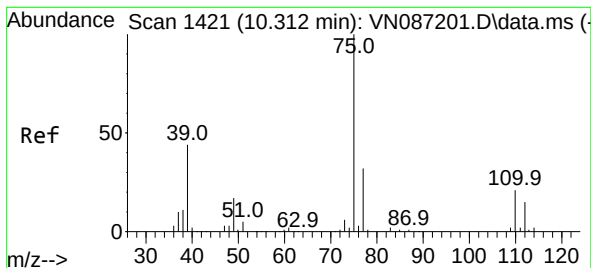
Tgt Ion: 98 Resp: 293024
Ion Ratio Lower Upper
98 100
100 64.6 52.7 79.1



#51
4-Methyl-2-Pentanone
Concen: Below Cal
RT: 10.453 min Scan# 1445
Delta R.T. 0.006 min
Lab File: VN087221.D
Acq: 27 Jun 2025 14:53

Tgt Ion: 43 Resp: 3540
Ion Ratio Lower Upper
43 100
58 27.4 32.6 48.8#

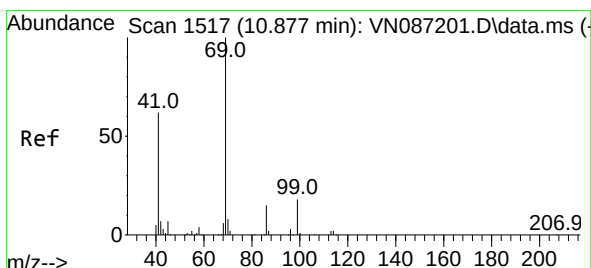
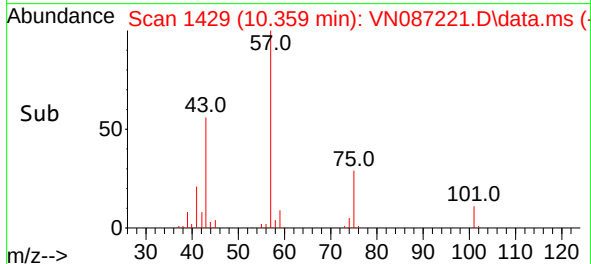
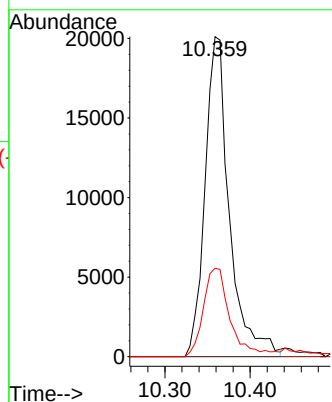
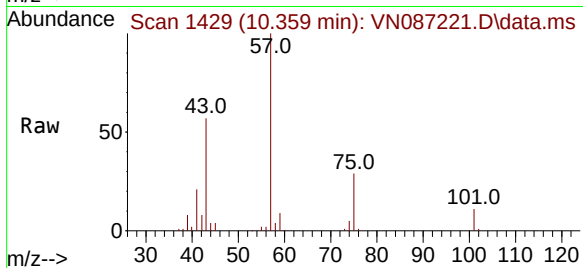




#54
 cis-1,3-Dichloropropene
 Concen: 9.535 ug/l
 RT: 10.359 min Scan# 1429
 Delta R.T. 0.047 min
 Lab File: VN087221.D
 Acq: 27 Jun 2025 14:53

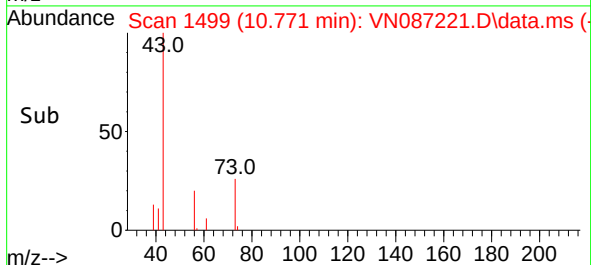
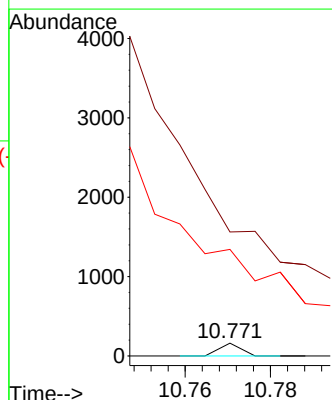
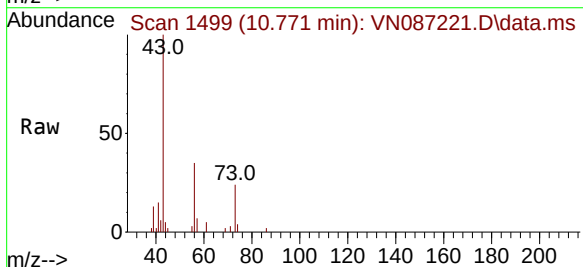
Instrument :
 MSVOA_N
 ClientSampleId :
 MH-E/F

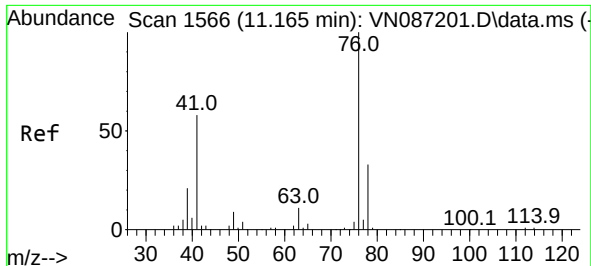
Tgt Ion: 75 Resp: 39914
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.4 38.2#
 39 27.6 34.9 52.3#



#56
 Ethyl methacrylate
 Concen: Below Cal
 RT: 10.771 min Scan# 1499
 Delta R.T. -0.107 min
 Lab File: VN087221.D
 Acq: 27 Jun 2025 14:53

Tgt Ion: 69 Resp: 57
 Ion Ratio Lower Upper
 69 100
 41 0.0 48.4 72.6#
 39 0.0 24.1 36.1#





#57

1,3-Dichloropropane

Concen: 0.461 ug/l

RT: 11.212 min Scan# 1

Delta R.T. 0.047 min

Lab File: VN087221.D

Acq: 27 Jun 2025 14:53

Instrument :

MSVOA_N

ClientSampleId :

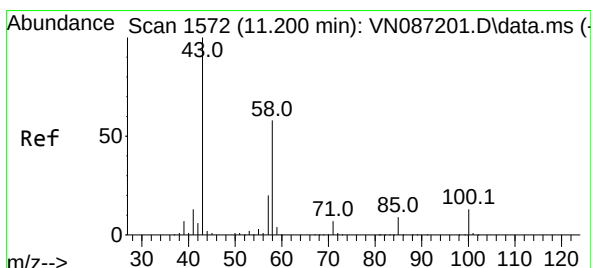
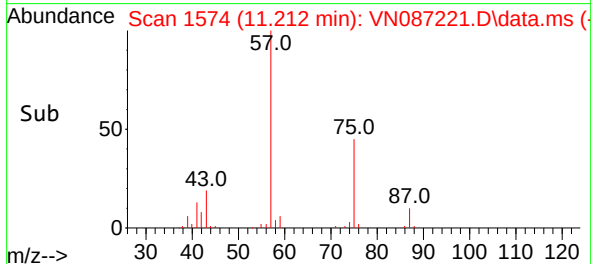
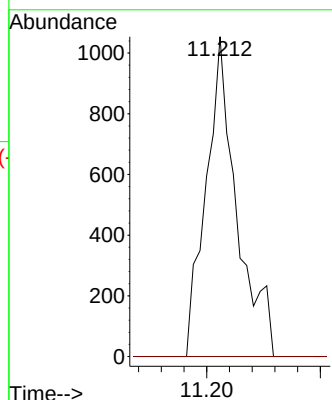
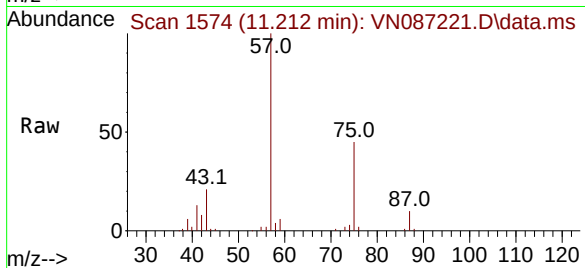
MH-E/F

Tgt Ion: 76 Resp: 1980

Ion Ratio Lower Upper

76 100

78 0.0 25.6 38.4#



#59

2-Hexanone

Concen: 2.495 ug/l

RT: 11.176 min Scan# 1568

Delta R.T. -0.024 min

Lab File: VN087221.D

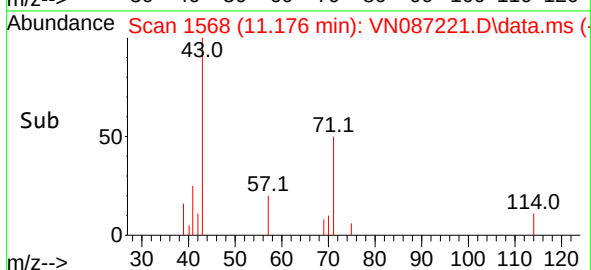
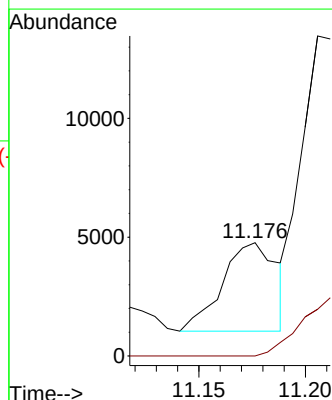
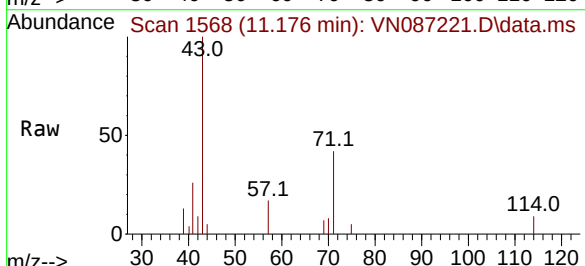
Acq: 27 Jun 2025 14:53

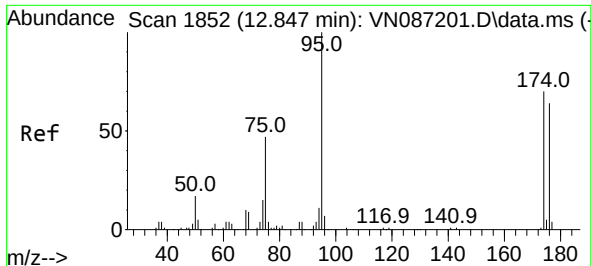
Tgt Ion: 43 Resp: 6643

Ion Ratio Lower Upper

43 100

58 0.0 31.1 93.3#

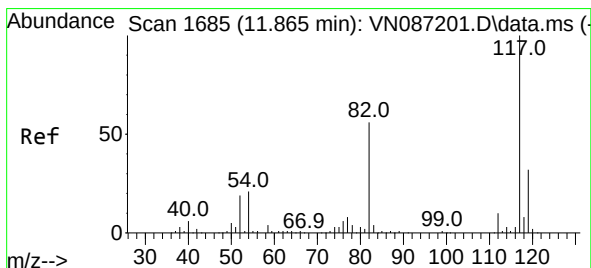
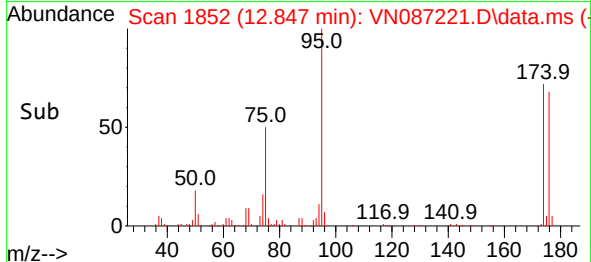
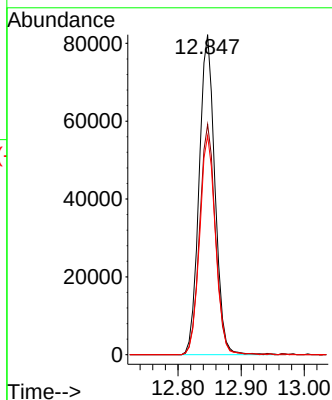
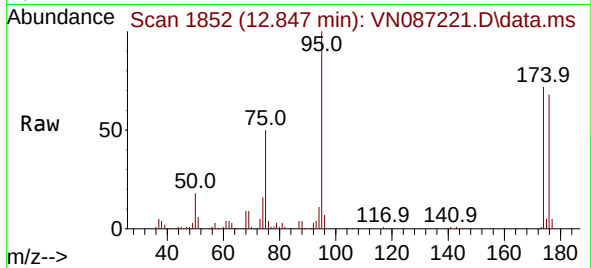




#62
4-Bromofluorobenzene
Concen: 44.714 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN087221.D
Acq: 27 Jun 2025 14:53

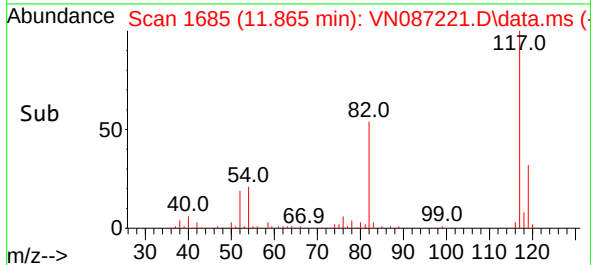
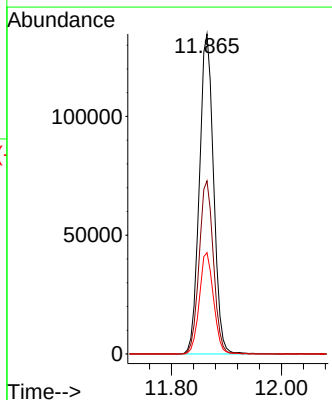
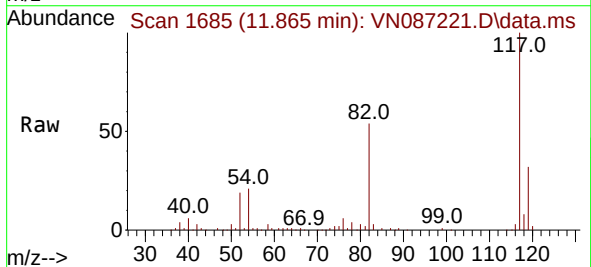
Instrument :
MSVOA_N
ClientSampleId :
MH-E/F

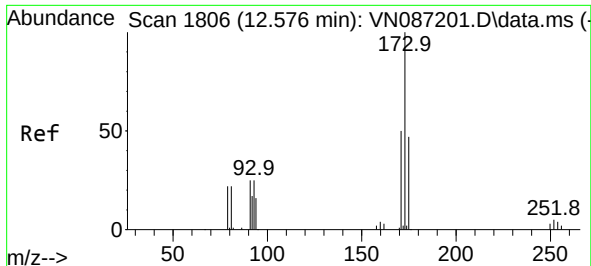
Tgt Ion: 95 Resp: 142610
Ion Ratio Lower Upper
95 100
174 72.1 0.0 142.2
176 68.6 0.0 134.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN087221.D
Acq: 27 Jun 2025 14:53

Tgt Ion: 117 Resp: 241748
Ion Ratio Lower Upper
117 100
82 54.1 45.0 67.4
119 31.7 25.9 38.9

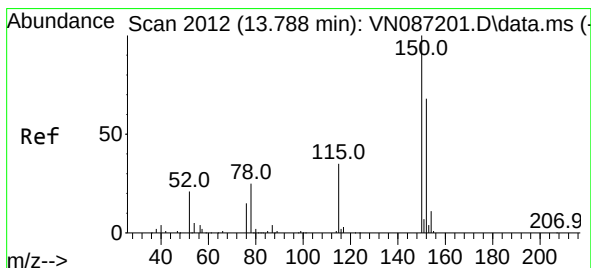
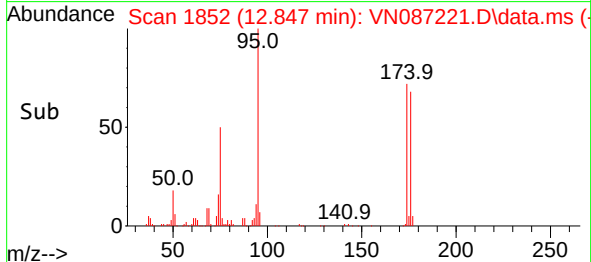
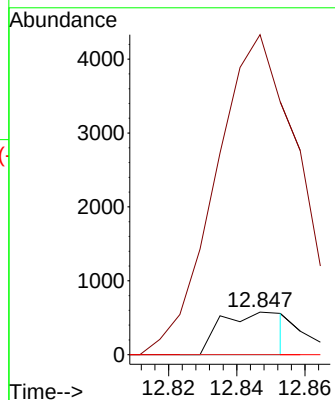
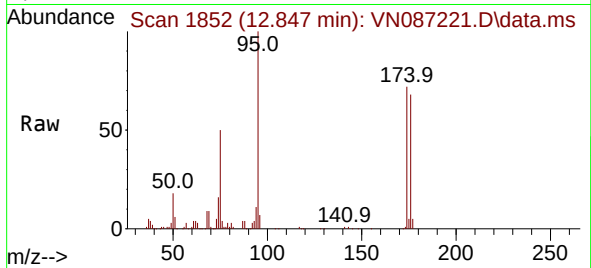




#71
Bromoform
Concen: 0.585 ug/l
RT: 12.847 min Scan# 1806
Delta R.T. 0.270 min
Lab File: VN087221.D
Acq: 27 Jun 2025 14:53

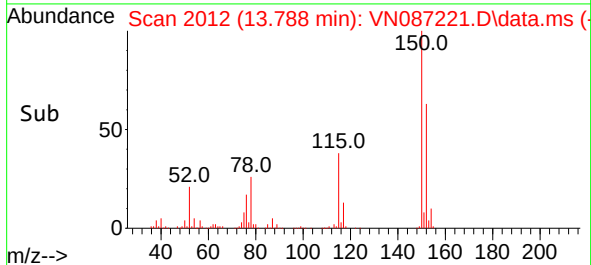
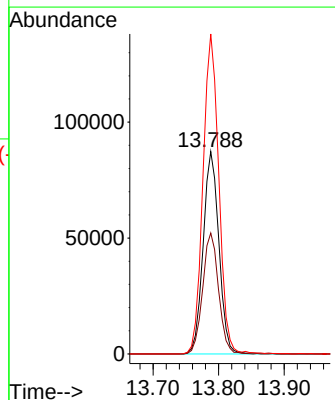
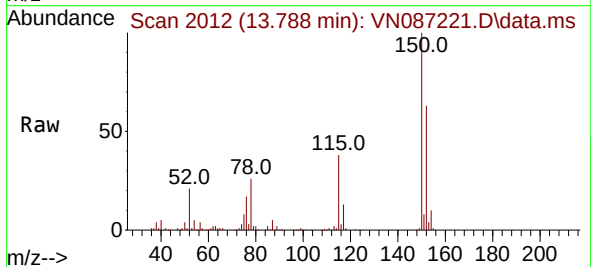
Instrument :
MSVOA_N
ClientSampleId :
MH-E/F

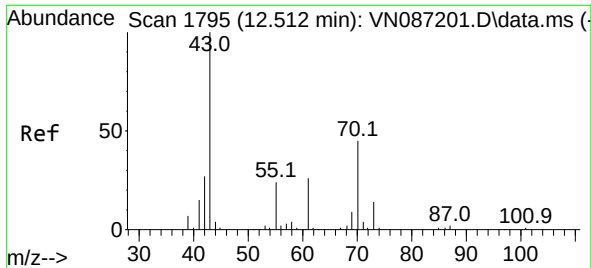
Tgt Ion:173 Resp: 744
Ion Ratio Lower Upper
173 100
175 785.1 23.8 71.2#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN087221.D
Acq: 27 Jun 2025 14:53

Tgt Ion:152 Resp: 146021
Ion Ratio Lower Upper
152 100
115 60.2 30.6 91.8
150 159.2 0.0 347.8

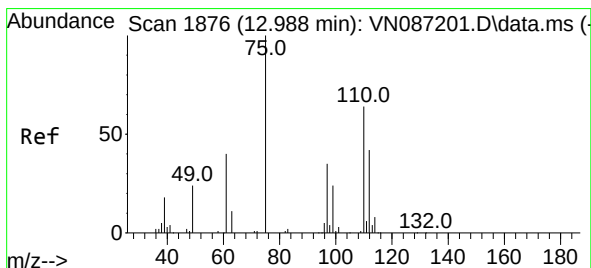
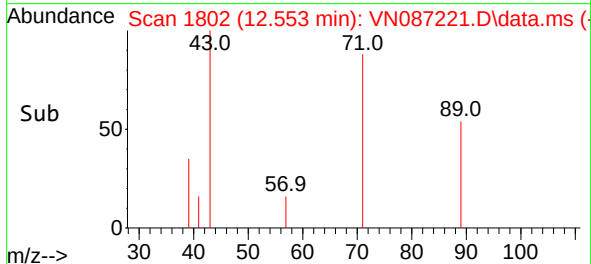
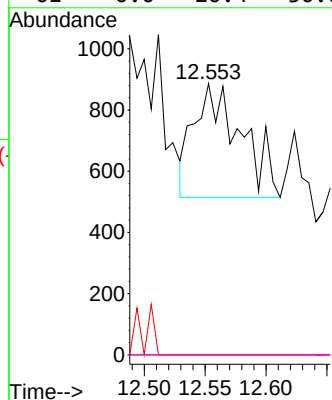
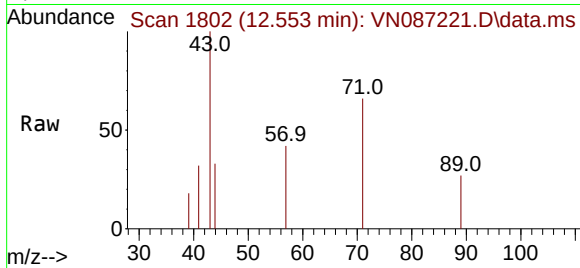




#74
N-amy1 acetate
Concen: 0.272 ug/l
RT: 12.553 min Scan# 1802
Delta R.T. 0.041 min
Lab File: VN087221.D
Acq: 27 Jun 2025 14:53

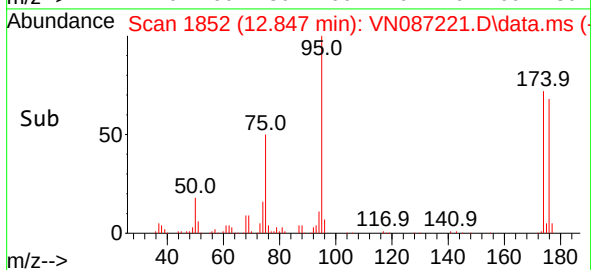
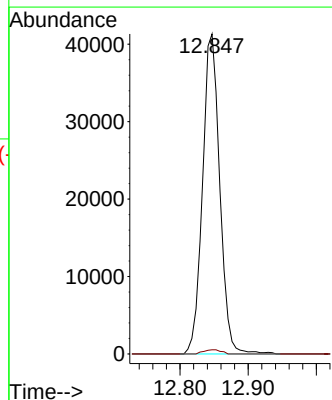
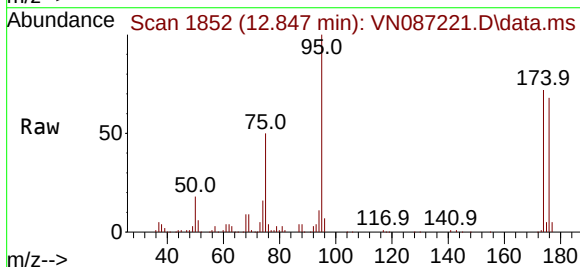
Instrument :
MSVOA_N
ClientSampleId :
MH-E/F

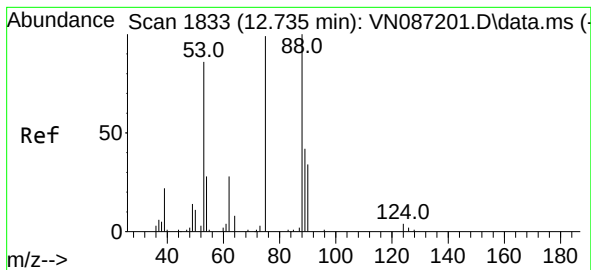
Tgt Ion:	43	Resp:	1002
Ion	Ratio	Lower	Upper
43	100		
70	0.0	32.8	49.2#
55	0.0	16.4	24.6#
61	0.0	20.4	30.6#



#76
1,2,3-Trichloropropane
Concen: 22.272 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN087221.D
Acq: 27 Jun 2025 14:53

Tgt Ion:	75	Resp:	72558
Ion	Ratio	Lower	Upper
75	100		
77	1.3	85.5	256.6#





#81
trans-1,4-Dichloro-2-butene
Concen: 49.986 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN087221.D
Acq: 27 Jun 2025 14:53

Instrument :
MSVOA_N
ClientSampleId :
MH-E/F

Tgt Ion: 75 Resp: 72558
Ion Ratio Lower Upper
75 100
53 0.0 71.4 107.0#
89 0.1 37.9 56.9#

