

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042825\
 Data File : VN086409.D
 Acq On : 28 Apr 2025 14:21
 Operator : JC\MD
 Sample : PB167744ZHE#06
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167744ZHE#06

Quant Time: Apr 29 01:53:15 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)

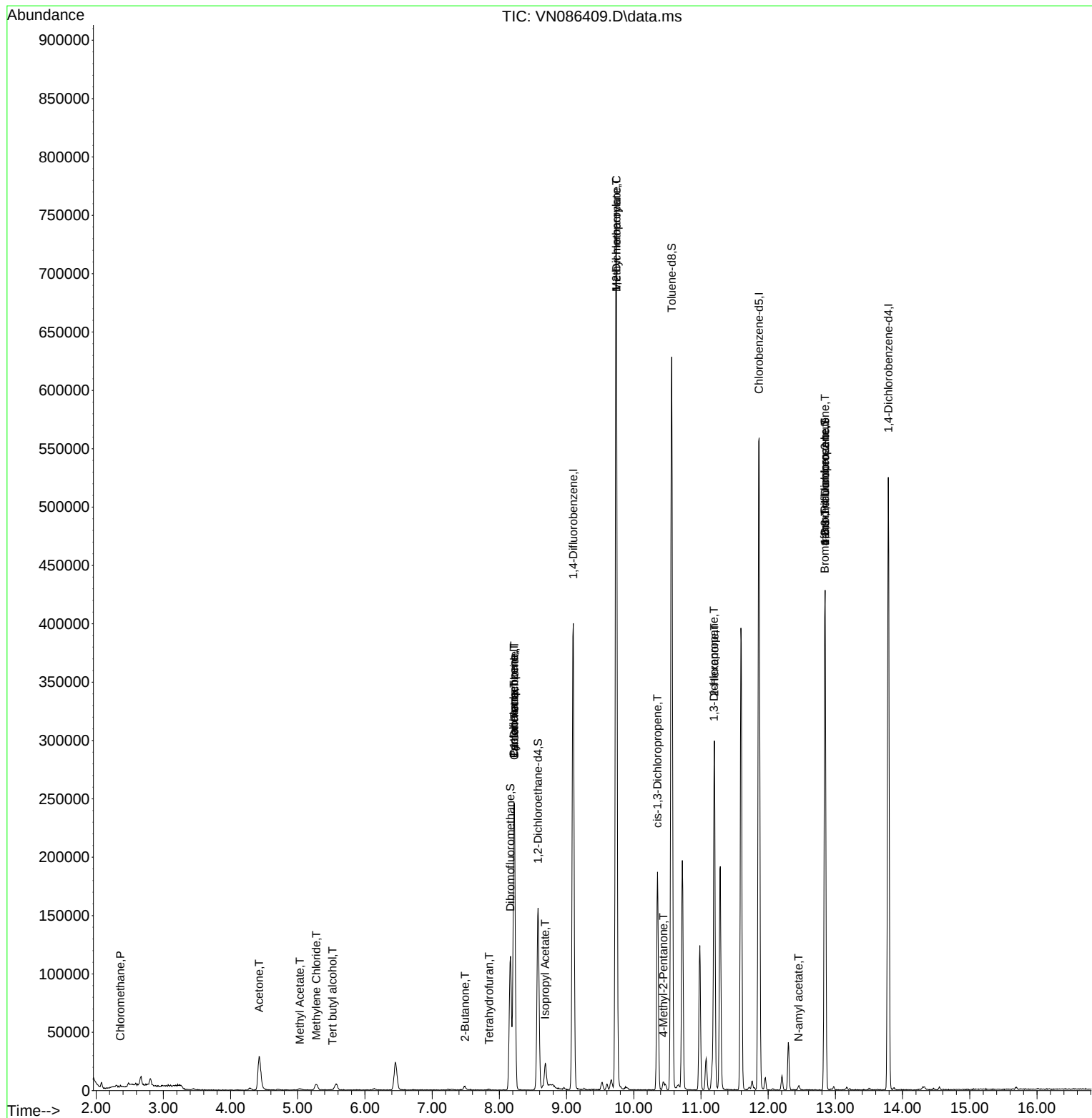
Internal Standards						
1) Pentafluorobenzene	8.218	168	183862	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	350166	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	328437	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	140360	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	129028	48.395	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	96.780%
35) Dibromofluoromethane	8.165	113	85672	52.716	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	105.440%
50) Toluene-d8	10.565	98	445830	51.329	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	102.660%
62) 4-Bromofluorobenzene	12.847	95	155846	49.193	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	98.380%
Target Compounds						
					Qvalue	
3) Chloromethane	2.359	50	660	0.208	ug/l	94
11) Tert butyl alcohol	5.518	59	783	1.610	ug/l #	72
16) Acetone	4.424	43	59177	59.856	ug/l	97
18) Methyl Acetate	5.030	43	2671	0.835	ug/l #	57
20) Methylene Chloride	5.277	84	4182	1.697	ug/l	88
25) 2-Butanone	7.488	43	5853	3.527	ug/l	98
29) Tetrahydrofuran	7.847	42	634	0.571	ug/l #	41
31) Cyclohexane	8.218	56	4736	1.096	ug/l #	14
36) 1,1-Dichloropropene	8.218	75	16153	4.976	ug/l #	49
38) Carbon Tetrachloride	8.224	117	18812	6.086	ug/l #	15
43) Isopropyl Acetate	8.682	43	29607	3.019	ug/l #	85
45) 1,2-Dichloropropane	9.741	63	871	0.342	ug/l #	43
48) Methyl methacrylate	9.741	41	69061	23.012	ug/l #	43
51) 4-Methyl-2-Pentanone	10.441	43	4387	1.254	ug/l	99
54) cis-1,3-Dichloropropene	10.353	75	34219	7.967	ug/l #	63
57) 1,3-Dichloropropane	11.194	76	3149	0.760	ug/l #	43
59) 2-Hexanone	11.200	43	58493	22.535	ug/l #	42
71) Bromoform	12.841	173	630	0.346	ug/l #	1
74) N-amyl acetate	12.453	43	3572	0.625	ug/l #	43
76) 1,2,3-Trichloropropane	12.847	75	80426	24.281	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	80426	58.314	ug/l #	10

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

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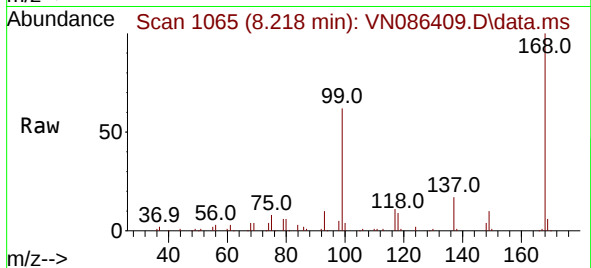
Quant Time: Apr 29 01:53:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260
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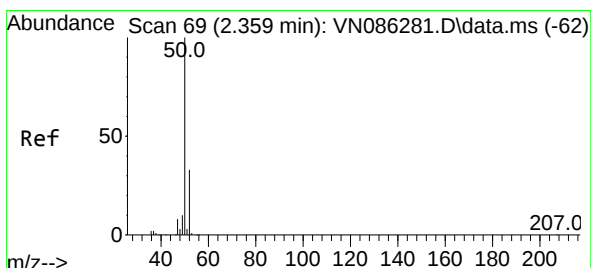
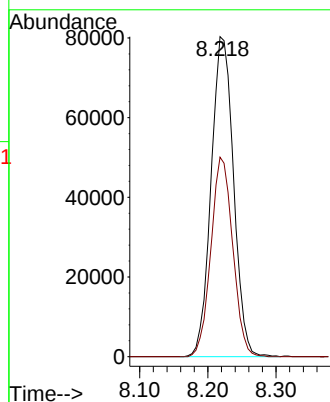
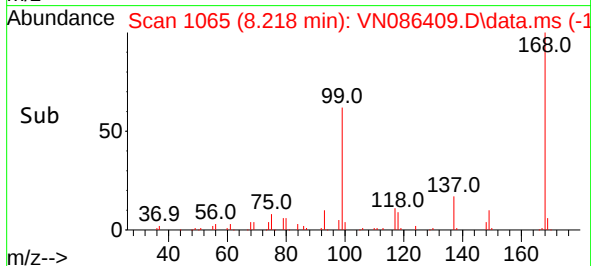


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VN086409.D
Acq: 28 Apr 2025 14:21

Instrument :
MSVOA_N
ClientSampleId :
PB167744ZHE#06

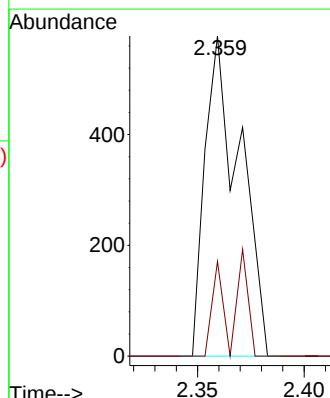
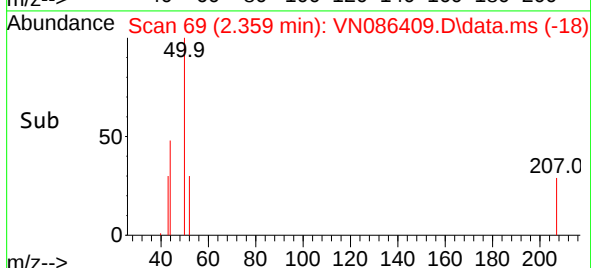
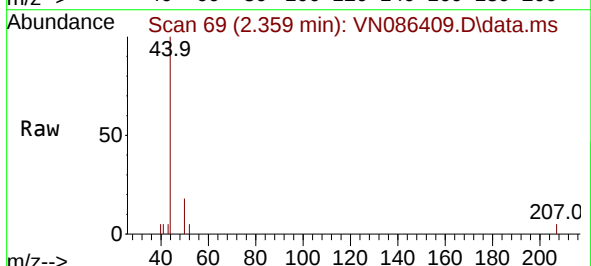


Tgt Ion:168 Resp: 183862
Ion Ratio Lower Upper
168 100
99 62.4 52.5 78.7



#3
Chloromethane
Concen: 0.208 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN086409.D
Acq: 28 Apr 2025 14:21

Tgt Ion: 50 Resp: 660
Ion Ratio Lower Upper
50 100
52 29.6 26.5 39.7

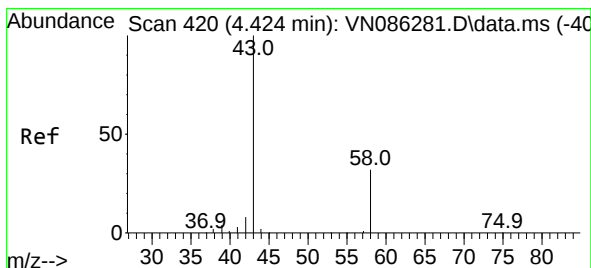
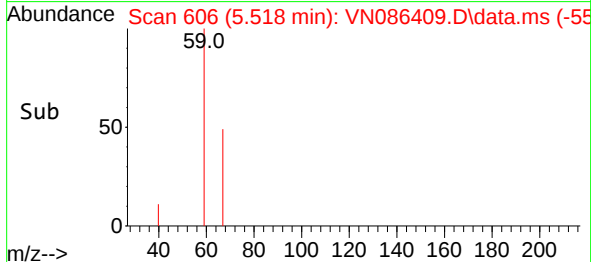
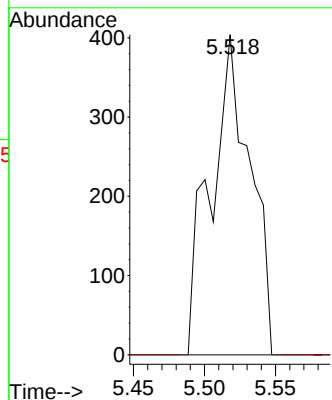
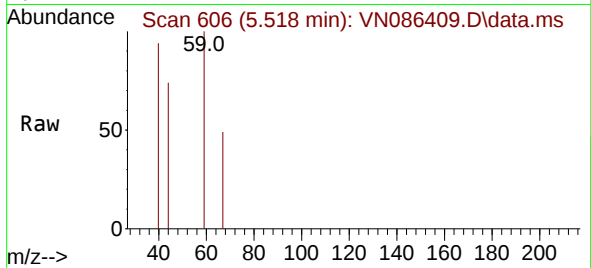




#11
Tert butyl alcohol
Concen: 1.610 ug/l
RT: 5.518 min Scan# 605
Delta R.T. 0.006 min
Lab File: VN086409.D
Acq: 28 Apr 2025 14:21

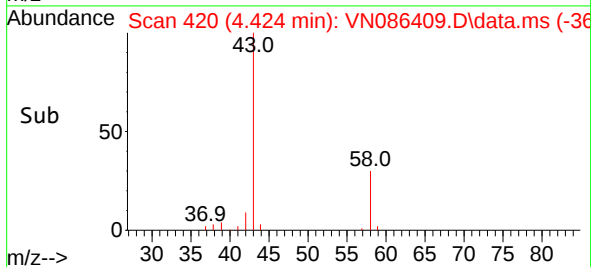
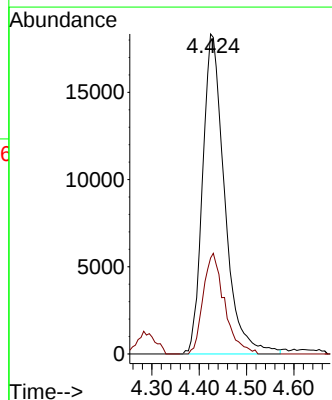
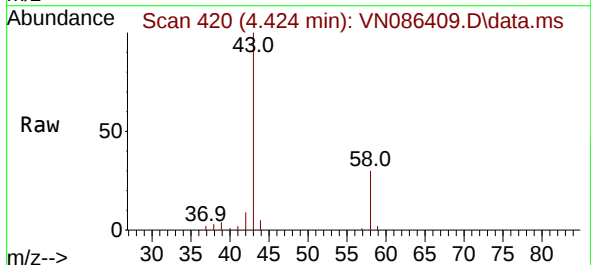
Instrument :
MSVOA_N
ClientSampleId :
PB167744ZHE#06

Tgt Ion: 59 Resp: 783
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



#16
Acetone
Concen: 59.856 ug/l
RT: 4.424 min Scan# 420
Delta R.T. -0.000 min
Lab File: VN086409.D
Acq: 28 Apr 2025 14:21

Tgt Ion: 43 Resp: 59177
Ion Ratio Lower Upper
43 100
58 30.0 25.3 37.9

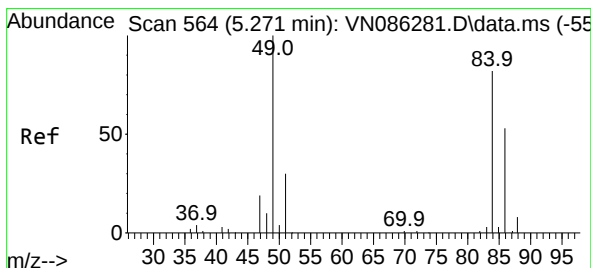
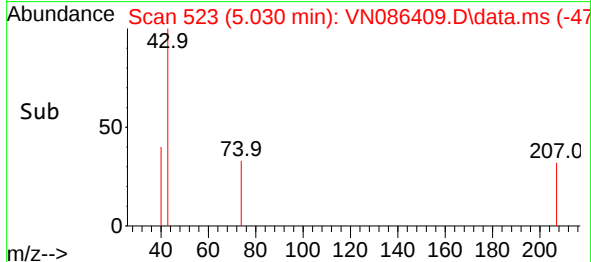
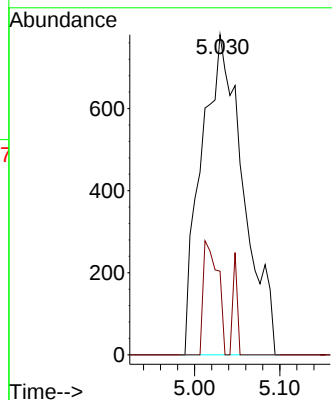
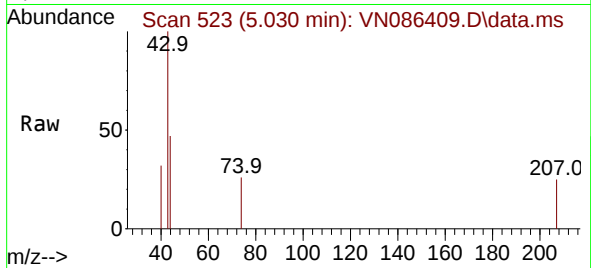




#18
Methyl Acetate
Concen: 0.835 ug/l
RT: 5.030 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN086409.D
Acq: 28 Apr 2025 14:21

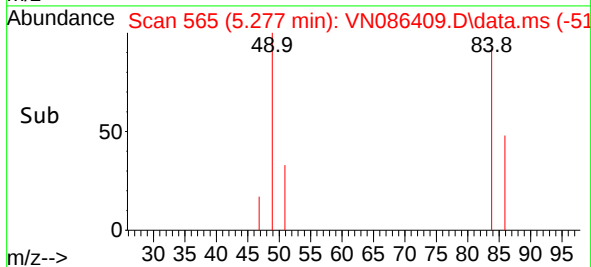
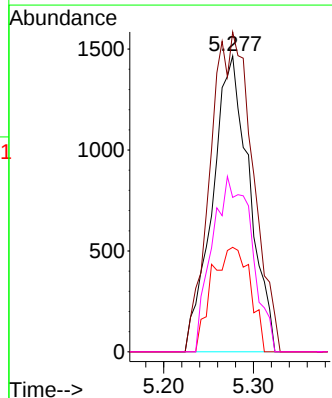
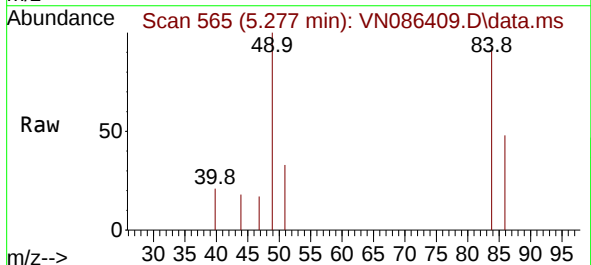
Instrument :
MSVOA_N
ClientSampleId :
PB167744ZHE#06

Tgt Ion: 43 Resp: 2671
Ion Ratio Lower Upper
43 100
74 3.3 19.8 29.6#



#20
Methylene Chloride
Concen: 1.697 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.006 min
Lab File: VN086409.D
Acq: 28 Apr 2025 14:21

Tgt Ion: 84 Resp: 4182
Ion Ratio Lower Upper
84 100
49 108.1 98.2 147.2
51 35.3 29.8 44.6
86 52.2 52.0 78.0

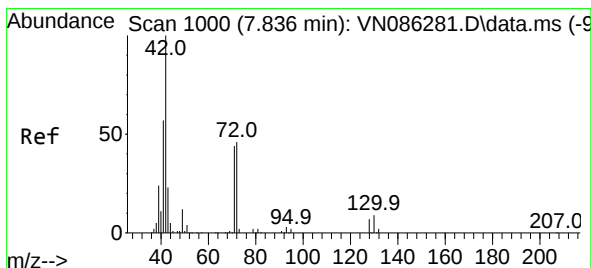
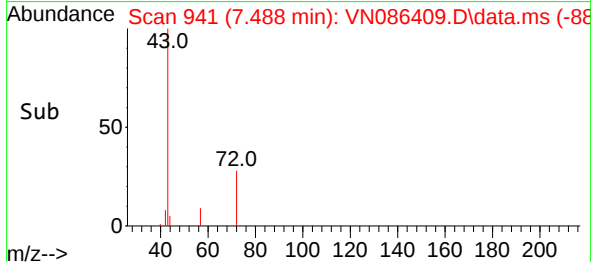
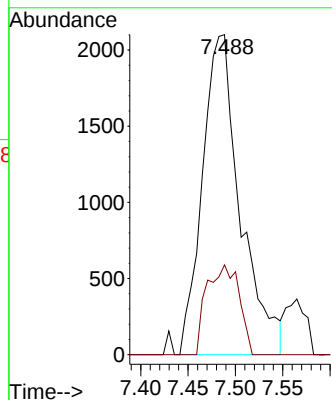
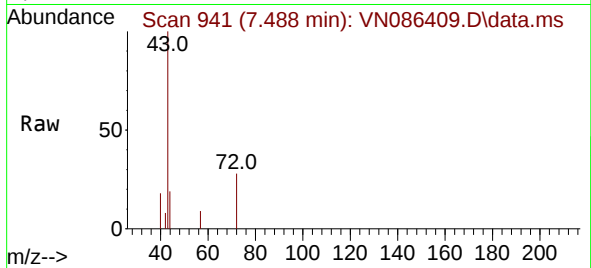




#25
2-Butanone
Concen: 3.527 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN086409.D
Acq: 28 Apr 2025 14:21

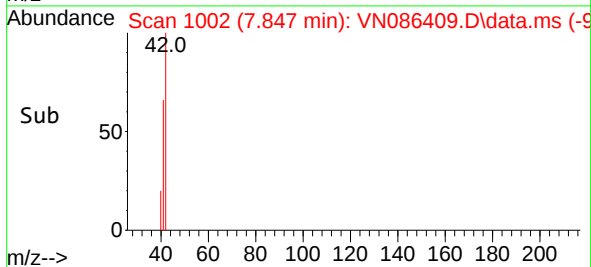
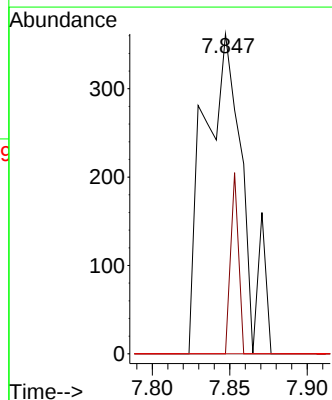
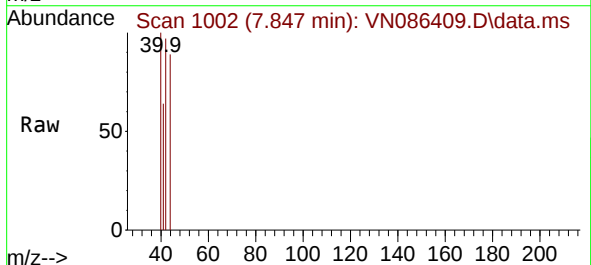
Instrument :
MSVOA_N
ClientSampleId :
PB167744ZHE#06

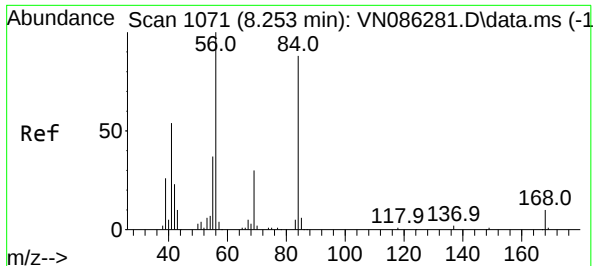
Tgt Ion: 43 Resp: 5853
Ion Ratio Lower Upper
43 100
72 28.0 21.7 32.5



#29
Tetrahydrofuran
Concen: 0.571 ug/l
RT: 7.847 min Scan# 1002
Delta R.T. 0.012 min
Lab File: VN086409.D
Acq: 28 Apr 2025 14:21

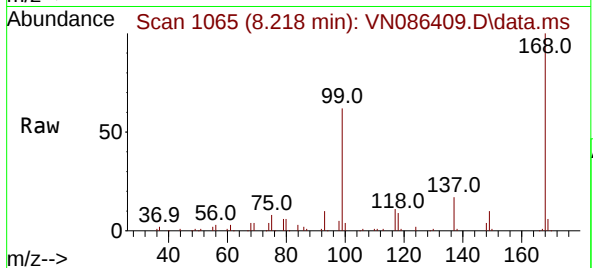
Tgt Ion: 42 Resp: 634
Ion Ratio Lower Upper
42 100
72 11.4 36.2 54.4#
71 0.0 34.0 51.0#



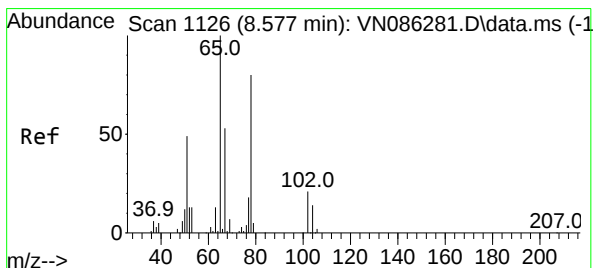
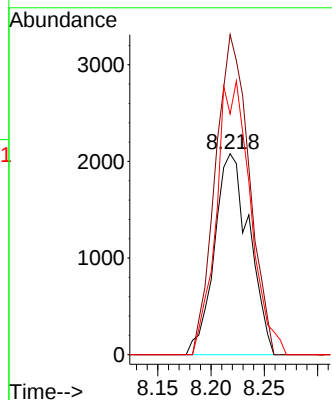
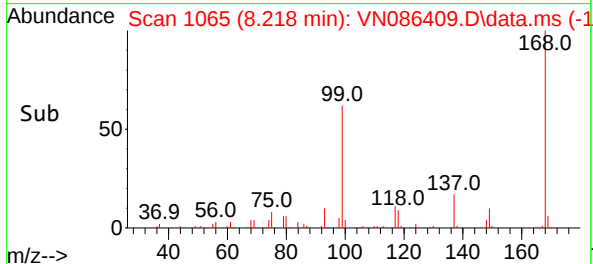


#31
Cyclohexane
Concen: 1.096 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.035 min
Lab File: VN086409.D
Acq: 28 Apr 2025 14:21

Instrument :
MSVOA_N
ClientSampleId :
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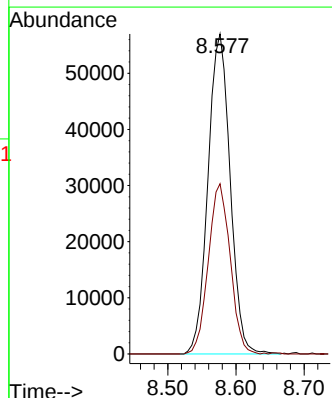
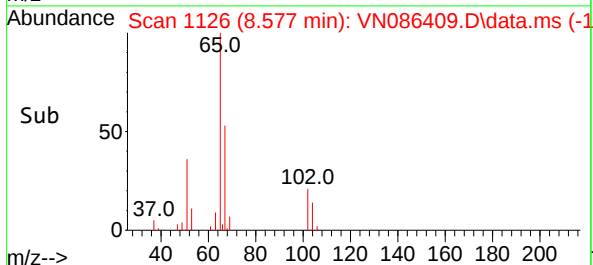
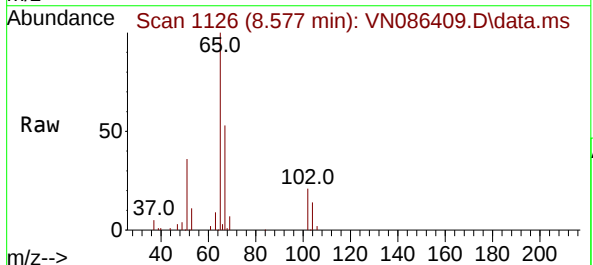


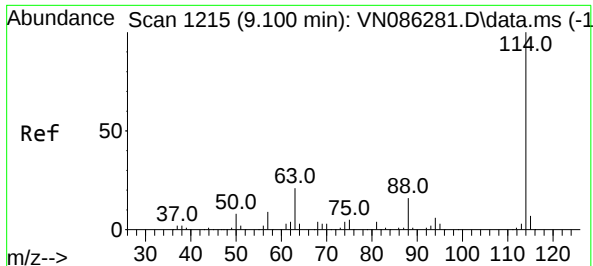
Tgt Ion: 56 Resp: 4736
Ion Ratio Lower Upper
56 100
69 159.2 24.2 36.2#
84 119.8 70.3 105.5#



#33
1,2-Dichloroethane-d4
Concen: 48.395 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN086409.D
Acq: 28 Apr 2025 14:21

Tgt Ion: 65 Resp: 129028
Ion Ratio Lower Upper
65 100
67 52.4 0.0 106.0

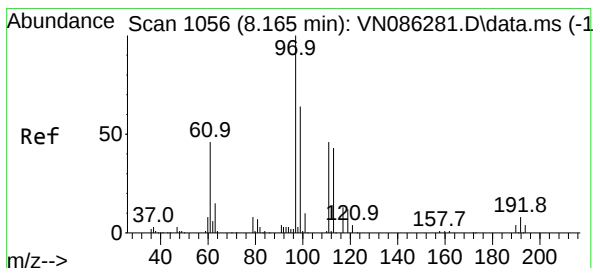
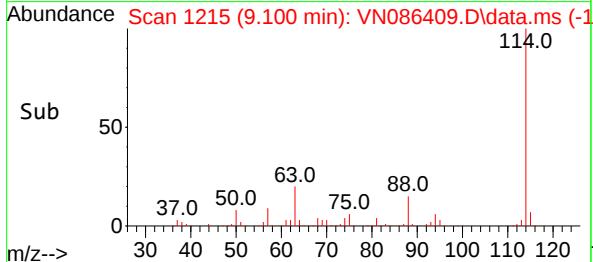
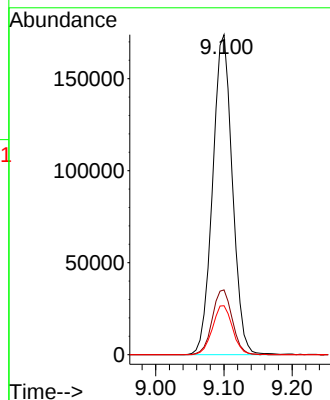
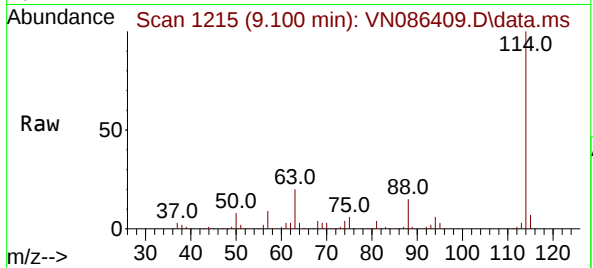




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086409.D
Acq: 28 Apr 2025 14:21

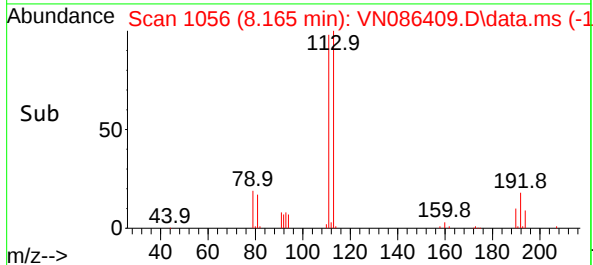
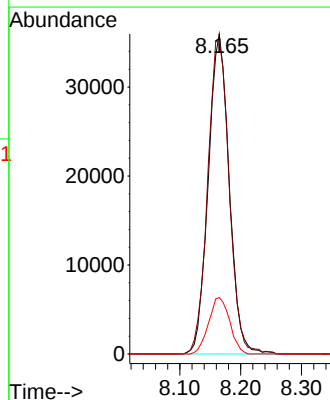
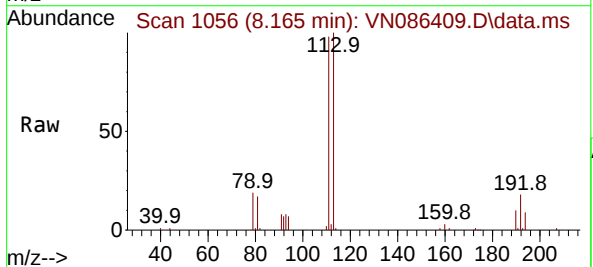
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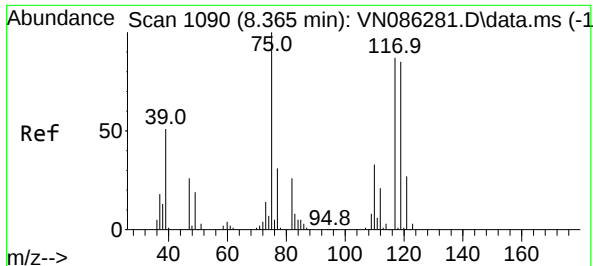
Tgt Ion:114 Resp: 350166
Ion Ratio Lower Upper
114 100
63 20.3 0.0 42.6
88 15.3 0.0 31.8



#35
Dibromofluoromethane
Concen: 52.716 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN086409.D
Acq: 28 Apr 2025 14:21

Tgt Ion:113 Resp: 85672
Ion Ratio Lower Upper
113 100
111 101.2 83.4 125.0
192 17.8 13.7 20.5





#36

1,1-Dichloropropene

Concen: 4.976 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.147 min

Lab File: VN086409.D

Acq: 28 Apr 2025 14:21

Instrument :

MSVOA_N

ClientSampleId :

PB167744ZHE#06

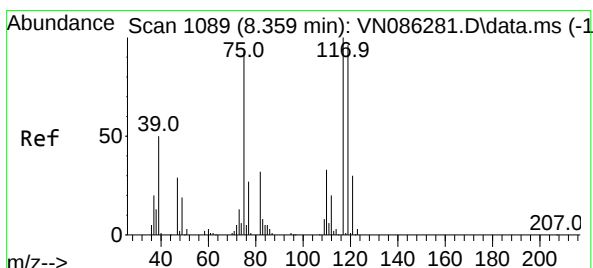
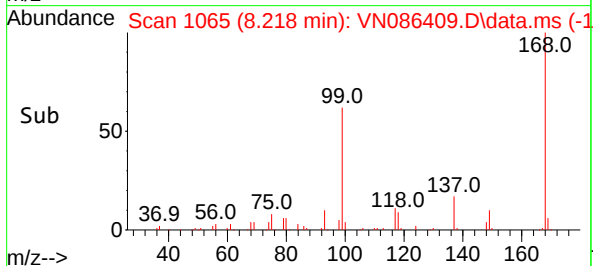
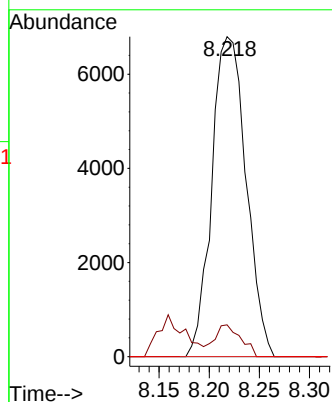
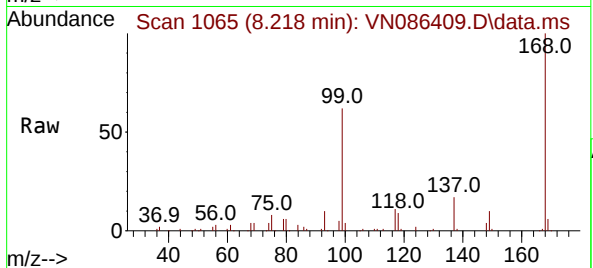
Tgt Ion: 75 Resp: 16153

Ion Ratio Lower Upper

75 100

110 7.6 16.8 50.4#

77 0.0 24.9 37.3#



#38

Carbon Tetrachloride

Concen: 6.086 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.135 min

Lab File: VN086409.D

Acq: 28 Apr 2025 14:21

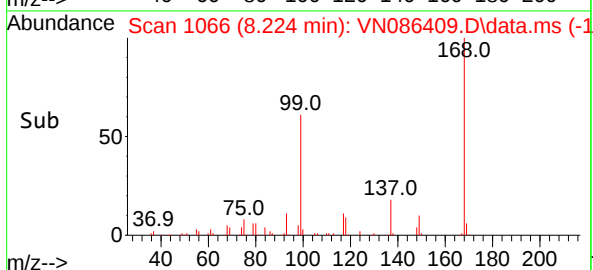
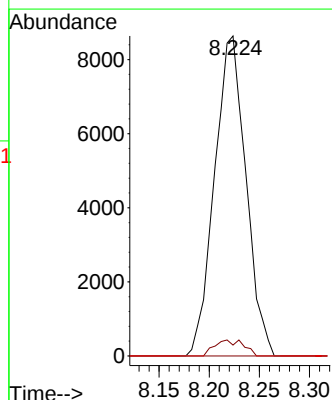
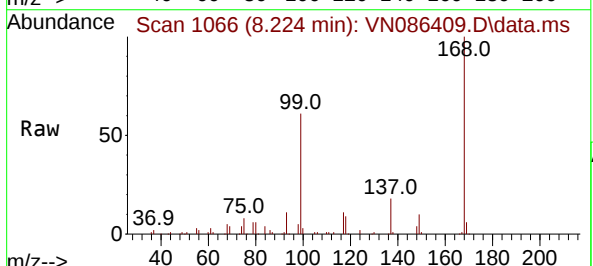
Tgt Ion: 117 Resp: 18812

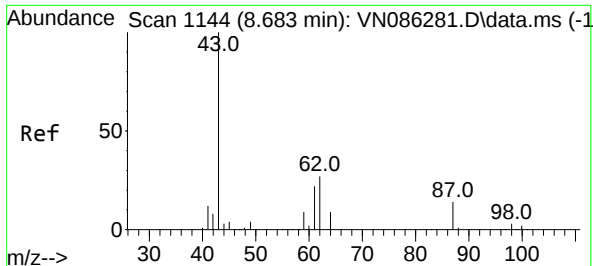
Ion Ratio Lower Upper

117 100

119 3.4 76.8 115.2#

121 0.0 23.8 35.8#

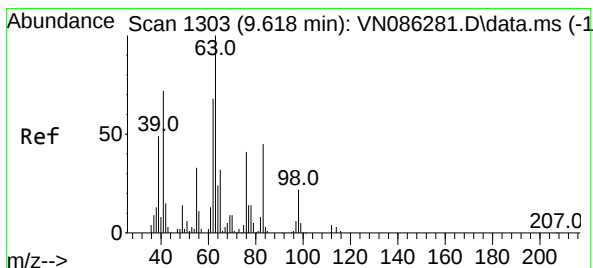
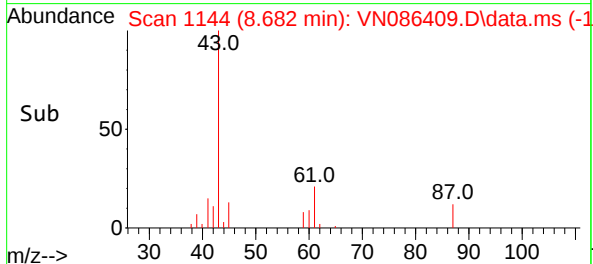
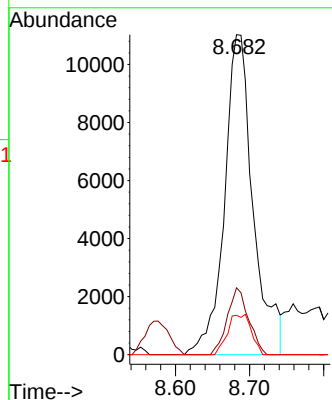
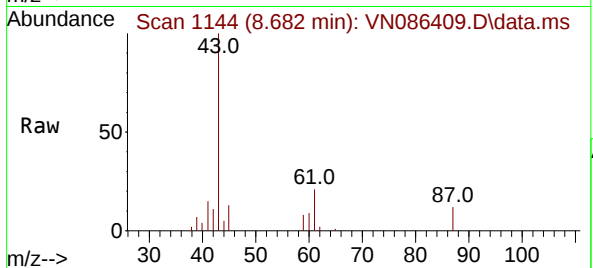




#43
Isopropyl Acetate
Concen: 3.019 ug/l
RT: 8.682 min Scan# 1144
Delta R.T. -0.001 min
Lab File: VN086409.D
Acq: 28 Apr 2025 14:21

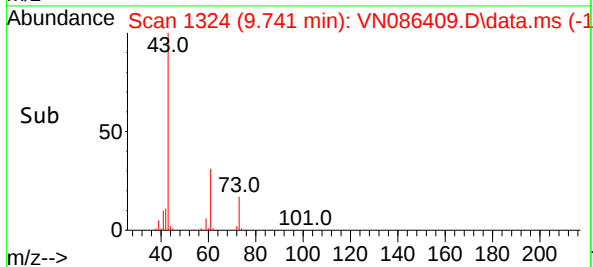
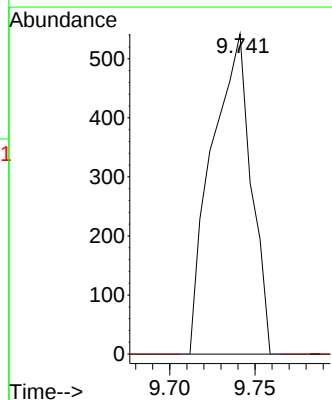
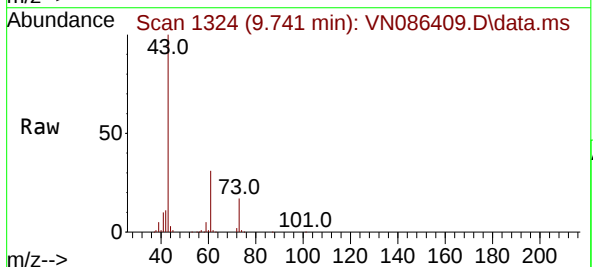
Instrument :
MSVOA_N
ClientSampleId :
PB167744ZHE#06

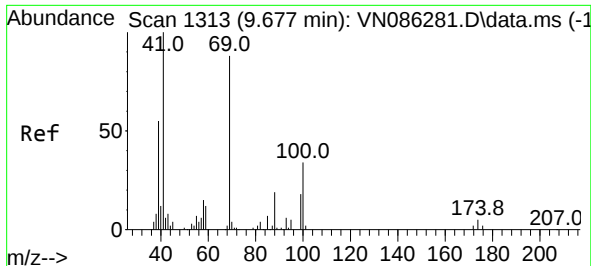
Tgt Ion: 43 Resp: 29607
Ion Ratio Lower Upper
43 100
61 15.5 20.5 30.7#
87 10.3 10.5 15.7#



#45
1,2-Dichloropropane
Concen: 0.342 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.123 min
Lab File: VN086409.D
Acq: 28 Apr 2025 14:21

Tgt Ion: 63 Resp: 871
Ion Ratio Lower Upper
63 100
65 0.0 25.4 38.2#

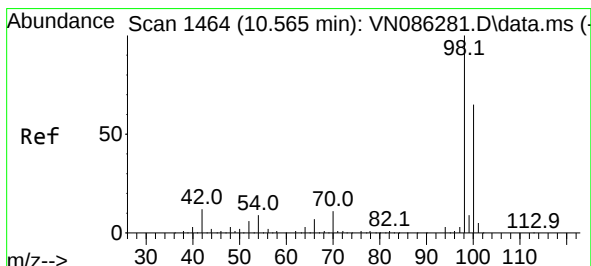
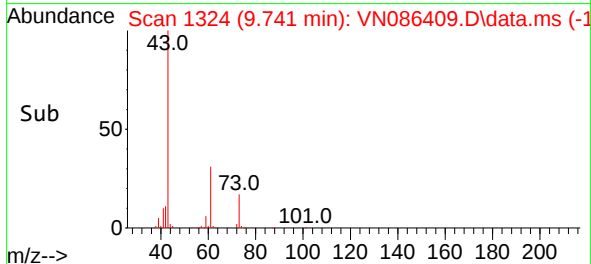
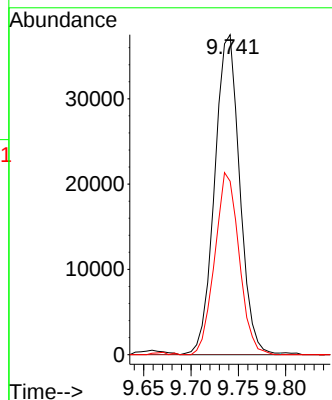
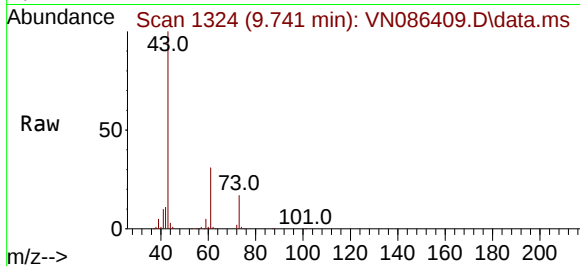




#48
Methyl methacrylate
Concen: 23.012 ug/l
RT: 9.741 min Scan# 11
Delta R.T. 0.065 min
Lab File: VN086409.D
Acq: 28 Apr 2025 14:21

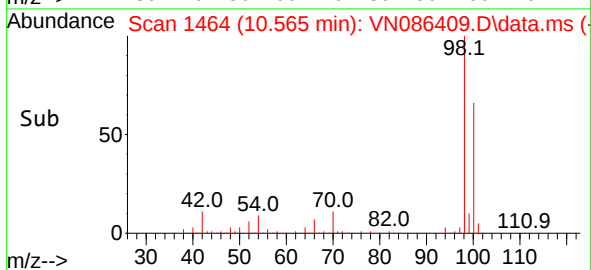
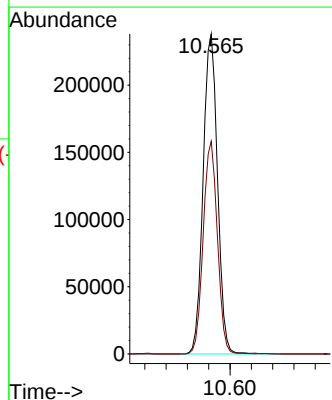
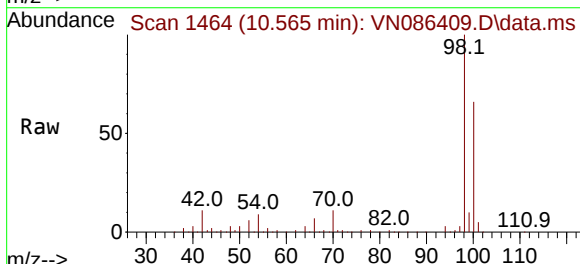
Instrument :
MSVOA_N
ClientSampleId :
PB167744ZHE#06

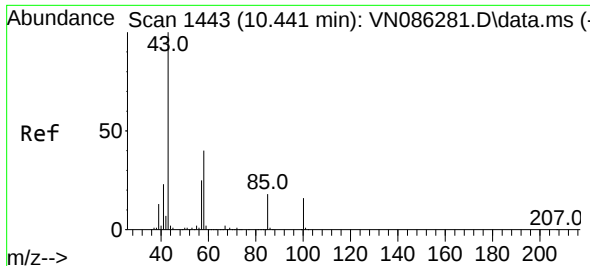
Tgt Ion: 41 Resp: 69061
Ion Ratio Lower Upper
41 100
69 0.0 68.2 102.2#
39 55.3 45.2 67.8



#50
Toluene-d8
Concen: 51.329 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086409.D
Acq: 28 Apr 2025 14:21

Tgt Ion: 98 Resp: 445830
Ion Ratio Lower Upper
98 100
100 65.6 52.5 78.7

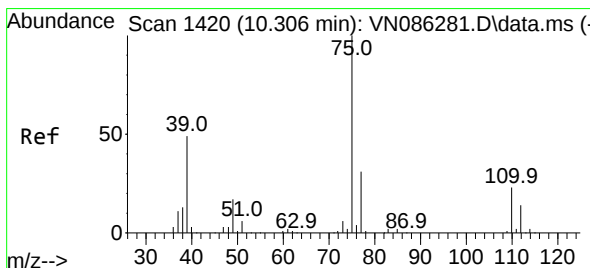
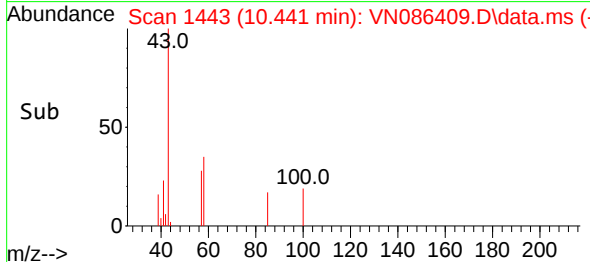
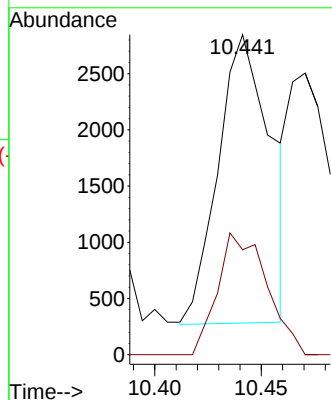
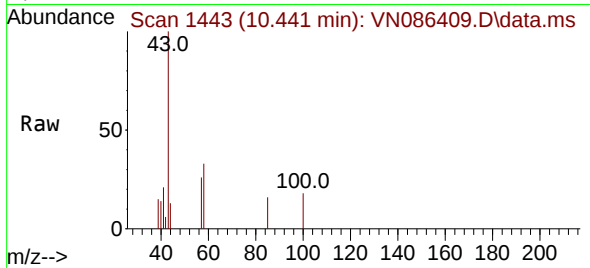




#51
4-Methyl-2-Pentanone
Concen: 1.254 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086409.D
Acq: 28 Apr 2025 14:21

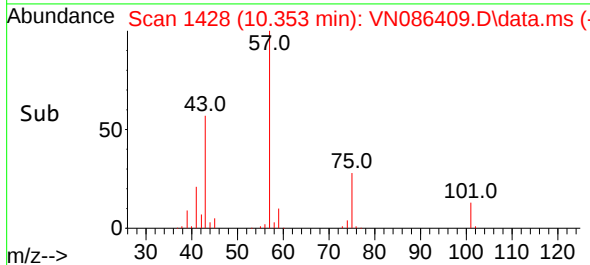
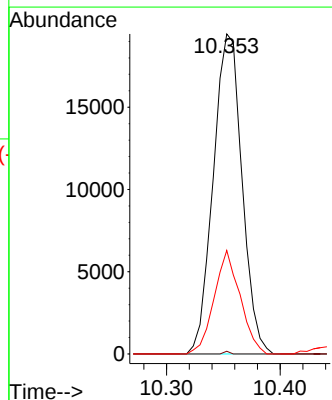
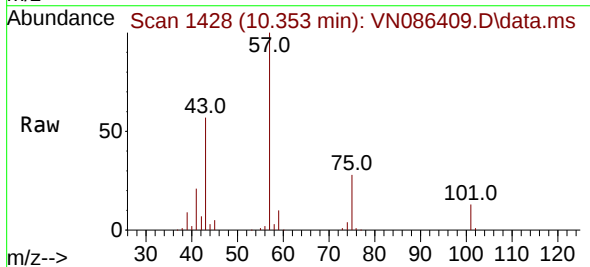
Instrument :
MSVOA_N
ClientSampleId :
PB167744ZHE#06

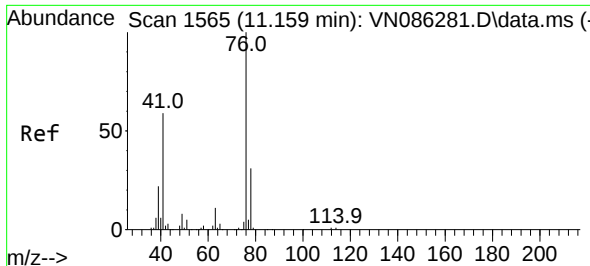
Tgt Ion: 43 Resp: 4387
Ion Ratio Lower Upper
43 100
58 39.7 32.2 48.4



#54
cis-1,3-Dichloropropene
Concen: 7.967 ug/l
RT: 10.353 min Scan# 1428
Delta R.T. 0.047 min
Lab File: VN086409.D
Acq: 28 Apr 2025 14:21

Tgt Ion: 75 Resp: 34219
Ion Ratio Lower Upper
75 100
77 0.9 25.2 37.8#
39 32.4 39.3 58.9#





#57

1,3-Dichloropropane

Concen: 0.760 ug/l

RT: 11.194 min Scan# 1571

Delta R.T. 0.035 min

Lab File: VN086409.D

Acq: 28 Apr 2025 14:21

Instrument :

MSVOA_N

ClientSampleId :

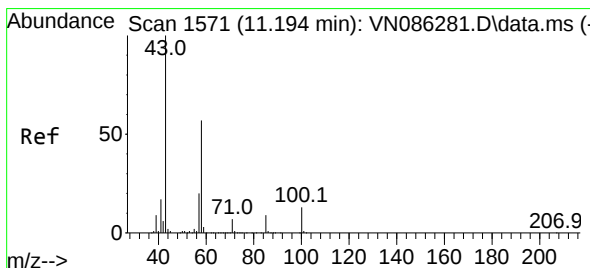
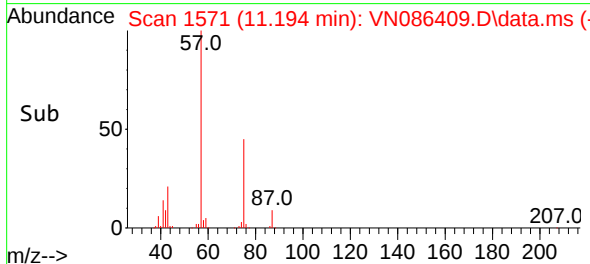
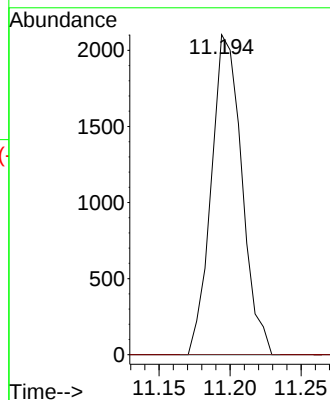
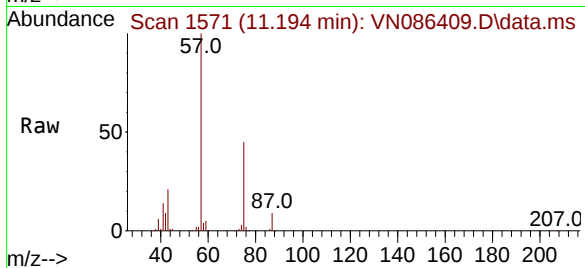
PB167744ZHE#06

Tgt Ion: 76 Resp: 3149

Ion Ratio Lower Upper

76 100

78 0.0 25.6 38.4#



#59

2-Hexanone

Concen: 22.535 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.006 min

Lab File: VN086409.D

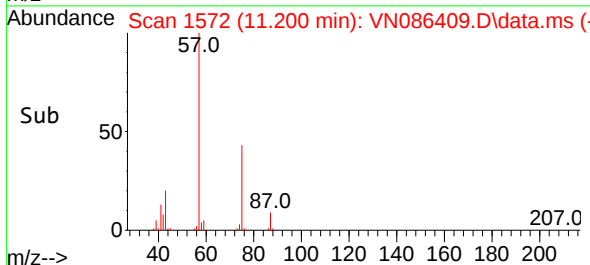
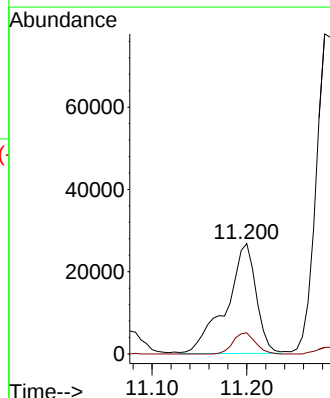
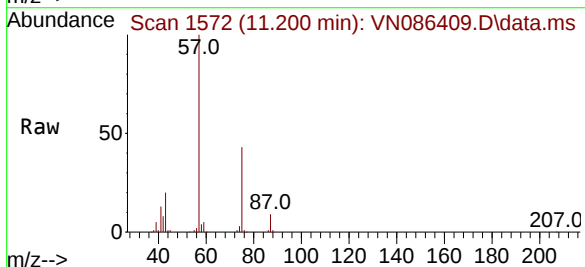
Acq: 28 Apr 2025 14:21

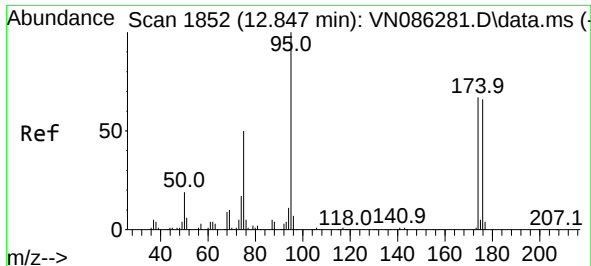
Tgt Ion: 43 Resp: 58493

Ion Ratio Lower Upper

43 100

58 14.4 28.3 85.0#

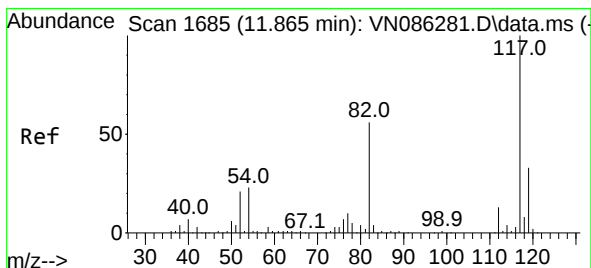
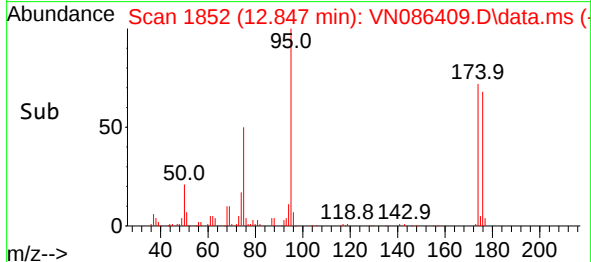
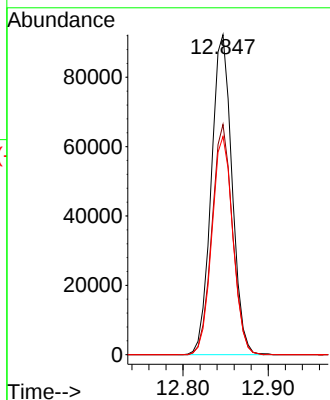
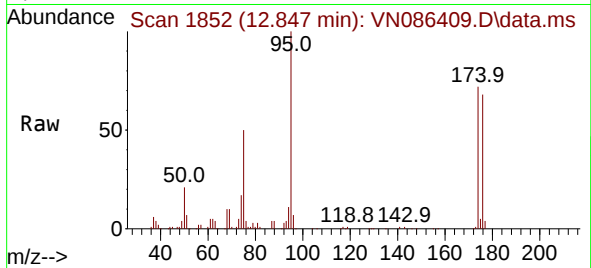




#62
4-Bromofluorobenzene
Concen: 49.193 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086409.D
Acq: 28 Apr 2025 14:21

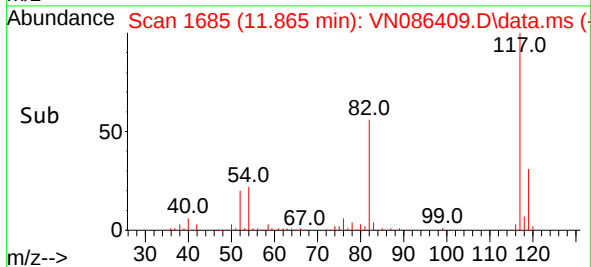
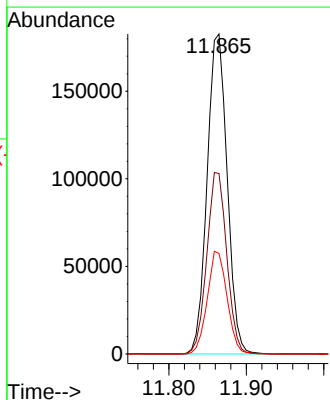
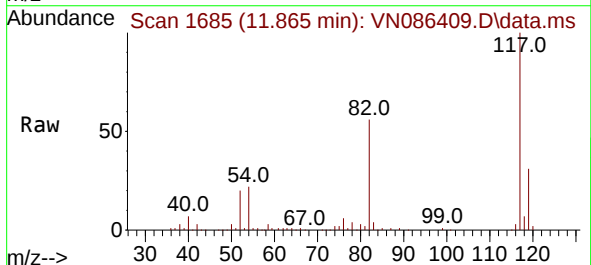
Instrument :
MSVOA_N
ClientSampleId :
PB167744ZHE#06

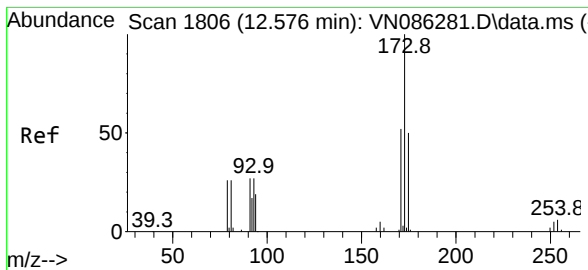
Tgt Ion: 95 Resp: 155846
Ion Ratio Lower Upper
95 100
174 71.7 0.0 133.4
176 68.9 0.0 129.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086409.D
Acq: 28 Apr 2025 14:21

Tgt Ion: 117 Resp: 328437
Ion Ratio Lower Upper
117 100
82 56.4 44.7 67.1
119 31.4 26.4 39.6





#71

Bromoform

Concen: 0.346 ug/l

RT: 12.841 min Scan# 1806

Delta R.T. 0.265 min

Lab File: VN086409.D

Acq: 28 Apr 2025 14:21

Instrument :

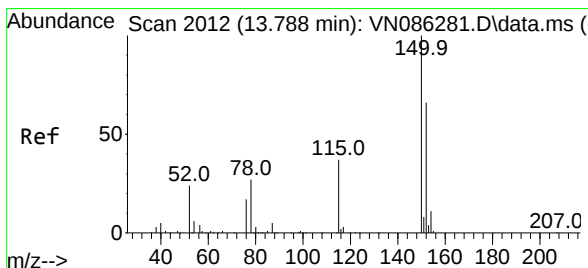
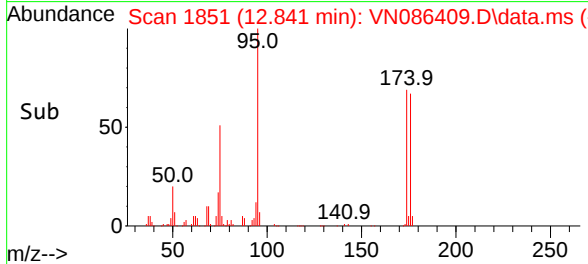
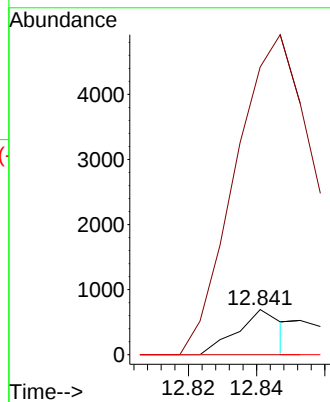
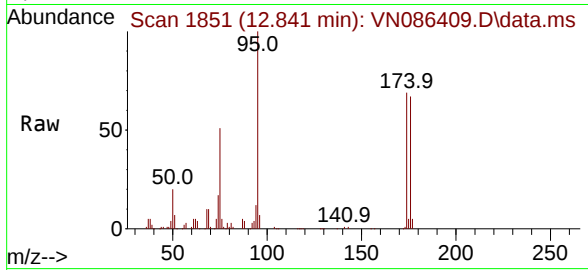
MSVOA_N

ClientSampleId :

PB167744ZHE#06

Tgt Ion:173 Resp: 630

Ion	Ratio	Lower	Upper
173	100		
175	1045.2	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# 1212

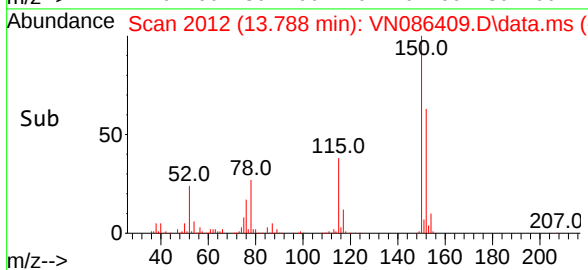
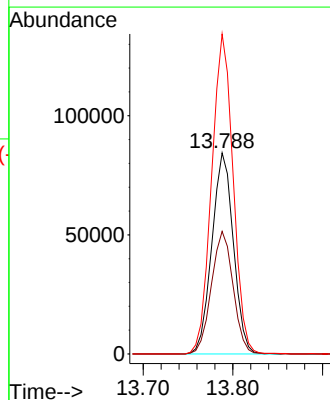
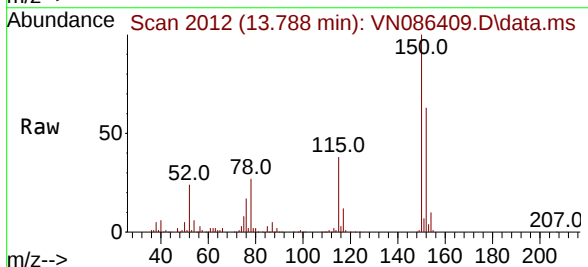
Delta R.T. -0.000 min

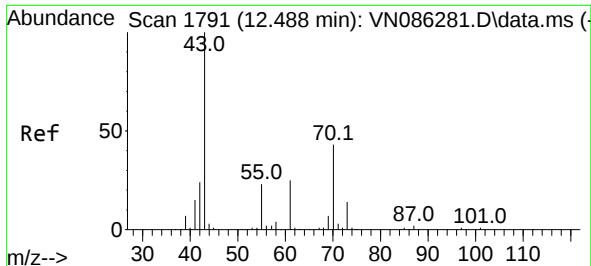
Lab File: VN086409.D

Acq: 28 Apr 2025 14:21

Tgt Ion:152 Resp: 140360

Ion	Ratio	Lower	Upper
152	100		
115	61.6	31.9	95.9
150	159.0	0.0	352.0

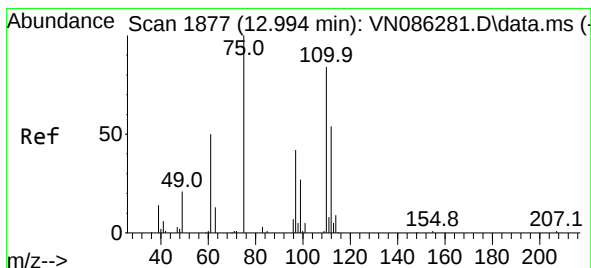
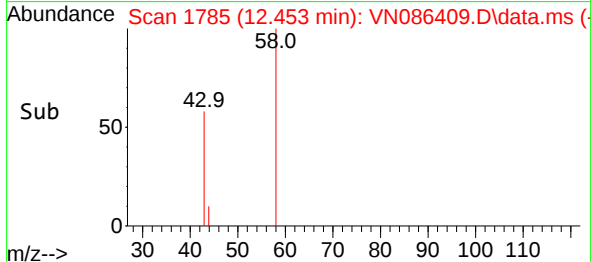
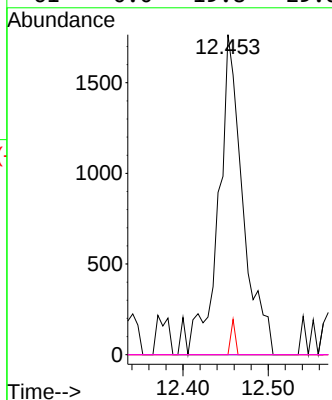
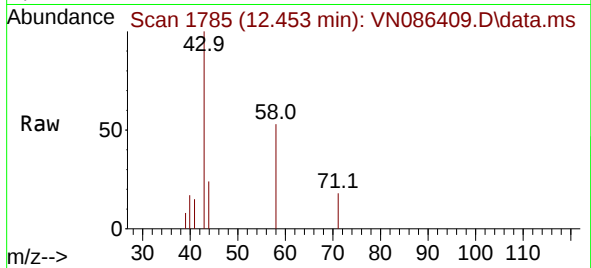




#74
N-amy1 acetate
Concen: 0.625 ug/l
RT: 12.453 min Scan# 11
Delta R.T. -0.035 min
Lab File: VN086409.D
Acq: 28 Apr 2025 14:21

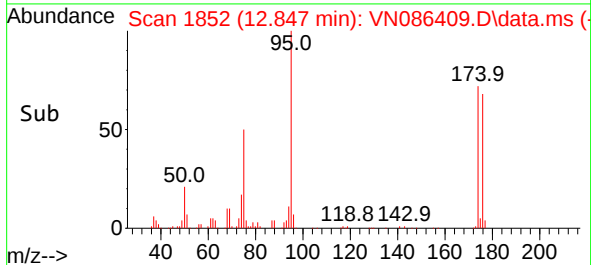
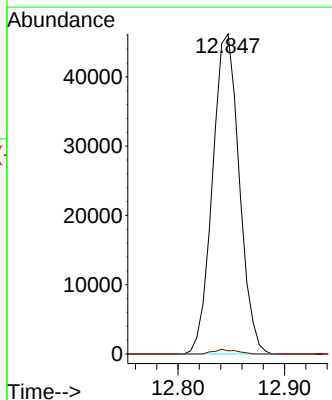
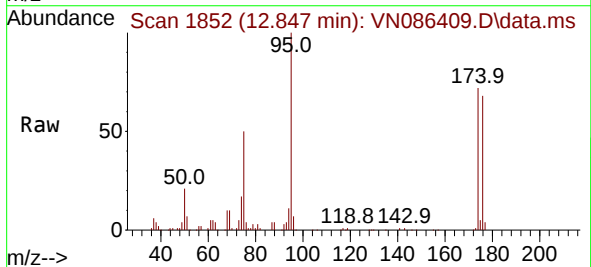
Instrument :
MSVOA_N
ClientSampleId :
PB167744ZHE#06

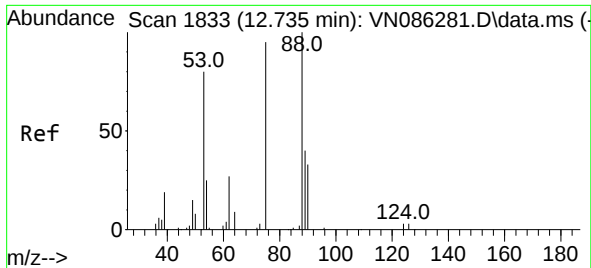
Tgt Ion: 43	Resp:	3572	
Ion	Ratio	Lower	Upper
43	100		
70	0.0	35.0	52.4#
55	1.9	19.0	28.4#
61	0.0	19.8	29.8#



#76
1,2,3-Trichloropropane
Concen: 24.281 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN086409.D
Acq: 28 Apr 2025 14:21

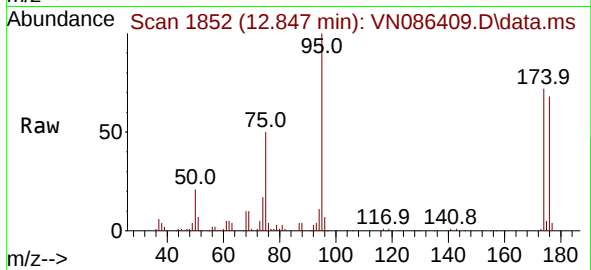
Tgt Ion: 75	Resp: 80426
Ion Ratio	Lower Upper
75 100	
77 1.2	98.8 296.4#





#81
trans-1,4-Dichloro-2-butene
Concen: 58.314 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN086409.D
Acq: 28 Apr 2025 14:21

Instrument :
MSVOA_N
ClientSampleId :
PB167744ZHE#06



Tgt Ion: 75 Resp: 80426
Ion Ratio Lower Upper
75 100
53 0.0 79.2 118.8#
89 0.0 35.7 53.5#

