

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031925\
 Data File : VN086013.D
 Acq On : 19 Mar 2025 16:50
 Operator : JC\MD
 Sample : PB167194ZHE#03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167194ZHE#03

Quant Time: Mar 20 01:34:11 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 19 03:20:56 2025
 Response via : Initial Calibration

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

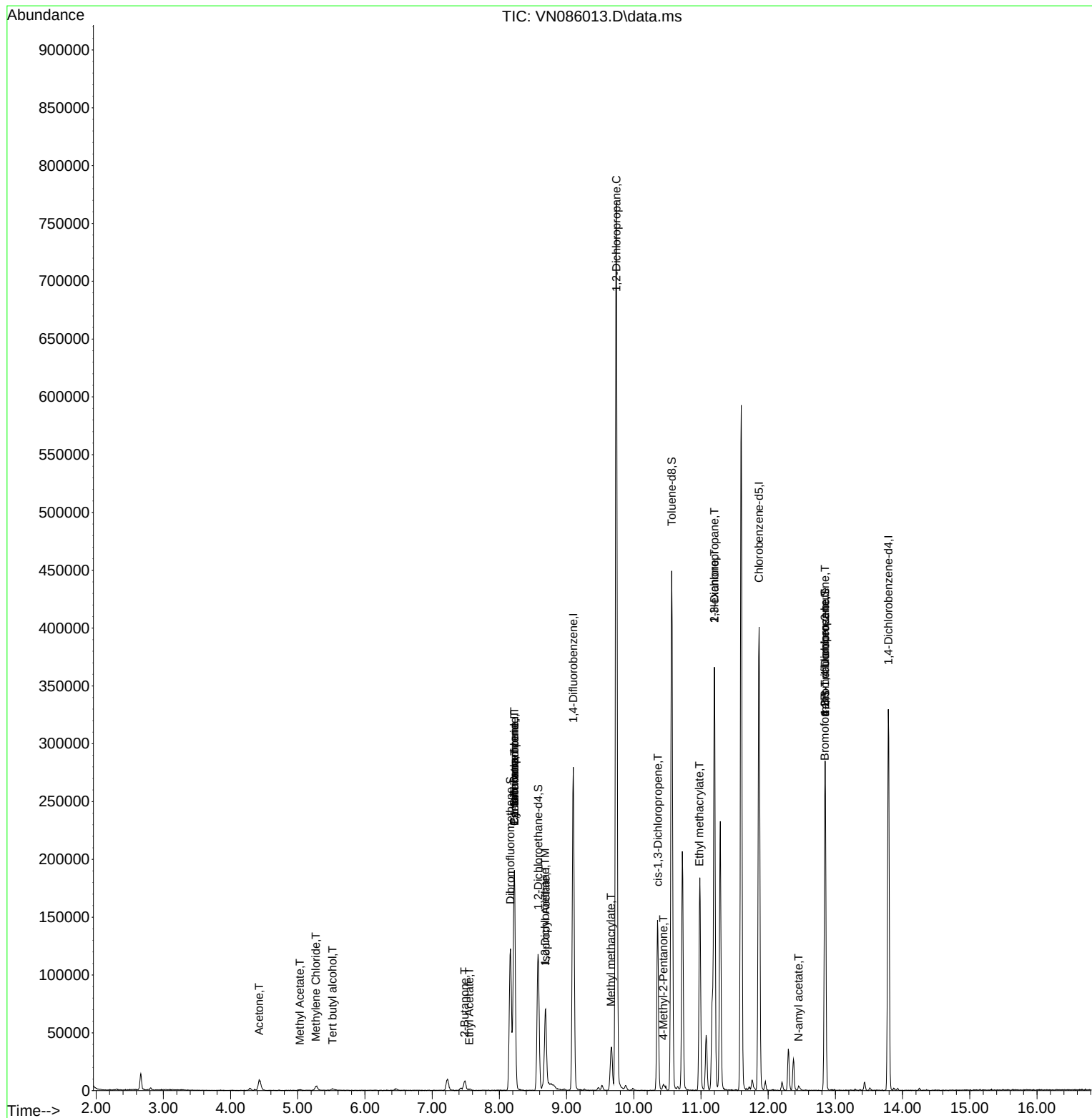
Internal Standards						
1) Pentafluorobenzene	8.224	168	136926	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	241881	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	238409	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	92993	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	104159	55.552	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	111.100%
35) Dibromofluoromethane	8.165	113	88699	52.537	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	105.080%
50) Toluene-d8	10.565	98	320214	52.260	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	104.520%
62) 4-Bromofluorobenzene	12.847	95	101256	46.337	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	92.680%
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.518	59	2561	9.647	ug/l #	73
16) Acetone	4.424	43	17253	30.119	ug/l	93
18) Methyl Acetate	5.030	43	686	0.484	ug/l #	45
20) Methylene Chloride	5.271	84	3691	2.203	ug/l #	83
25) 2-Butanone	7.482	43	13298	16.089	ug/l	92
31) Cyclohexane	8.224	56	2754	1.179	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	10804	4.860	ug/l #	51
37) Ethyl Acetate	7.553	43	2121	1.131	ug/l #	84
38) Carbon Tetrachloride	8.224	117	15207	5.203	ug/l #	19
42) 1,2-Dichloroethane	8.682	62	668	0.275	ug/l #	74
43) Isopropyl Acetate	8.688	43	78820	19.394	ug/l #	86
45) 1,2-Dichloropropane	9.741	63	1034	0.651	ug/l #	44
48) Methyl methacrylate	9.659	41	3245	2.420	ug/l #	32
51) 4-Methyl-2-Pentanone	10.441	43	3218	1.795	ug/l	93
54) cis-1,3-Dichloropropene	10.359	75	28628	10.709	ug/l #	68
56) Ethyl methacrylate	10.976	69	1467	0.899	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	3865	1.392	ug/l #	42
59) 2-Hexanone	11.200	43	41261	31.600	ug/l	62
71) Bromoform	12.841	173	739	0.436	ug/l #	1
74) N-amyl acetate	12.453	43	2968	1.397	ug/l #	37
76) 1,2,3-Trichloropropane	12.847	75	50142	24.084	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	50142	63.675	ug/l #	16

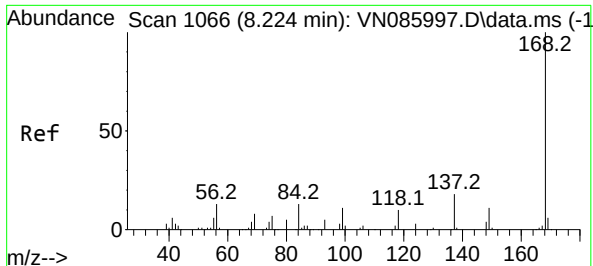
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Mar 20 01:34:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 19 03:20:56 2025
Response via : Initial Calibration

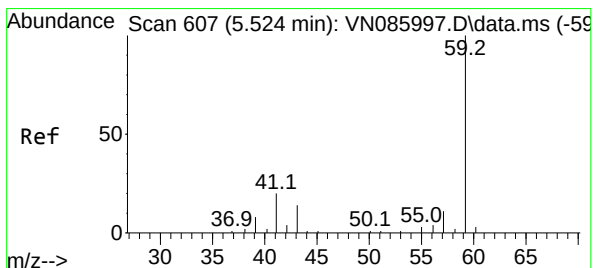
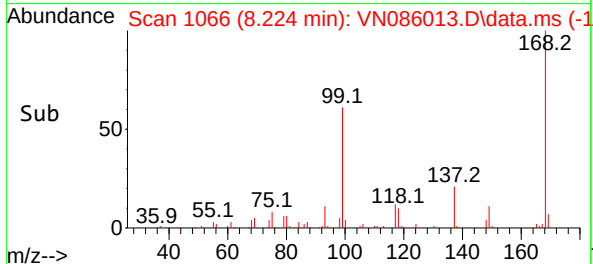
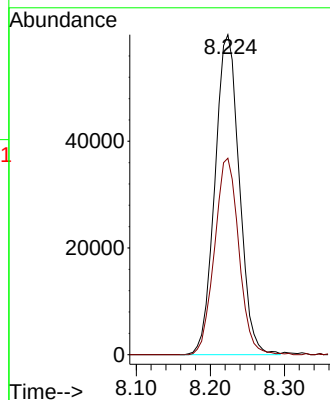
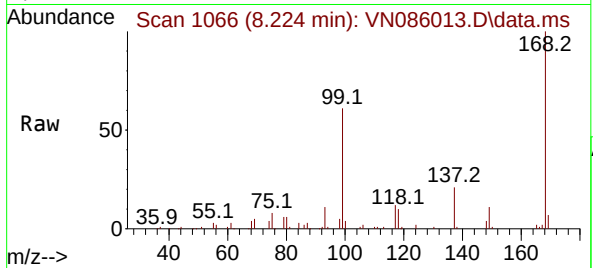




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN086013.D
Acq: 19 Mar 2025 16:50

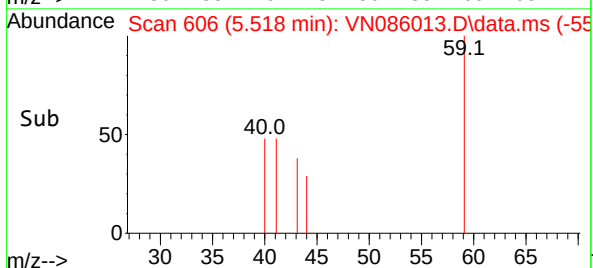
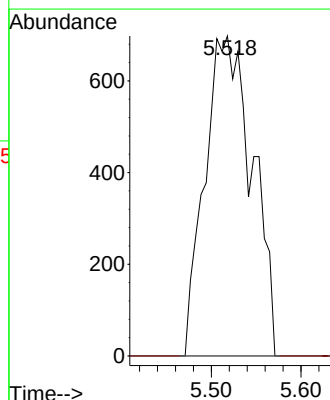
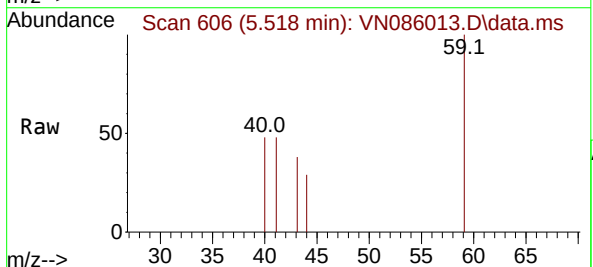
Instrument :
MSVOA_N
ClientSampleId :
PB167194ZHE#03

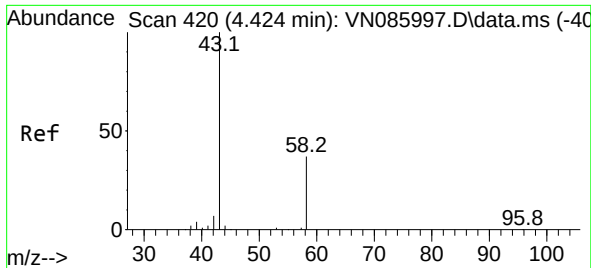
Tgt Ion:168 Resp: 136926
Ion Ratio Lower Upper
168 100
99 61.4 49.4 74.2



#11
Tert butyl alcohol
Concen: 9.647 ug/l
RT: 5.518 min Scan# 606
Delta R.T. -0.006 min
Lab File: VN086013.D
Acq: 19 Mar 2025 16:50

Tgt Ion: 59 Resp: 2561
Ion Ratio Lower Upper
59 100
57 0.0 7.9 11.9#

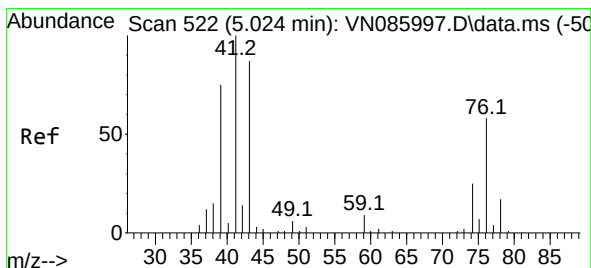
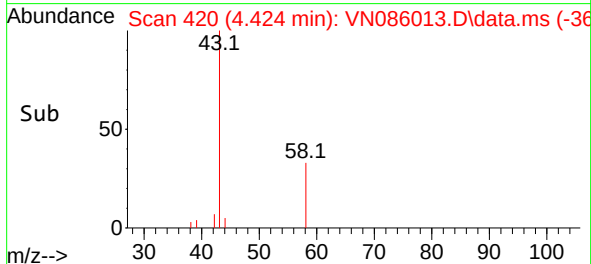
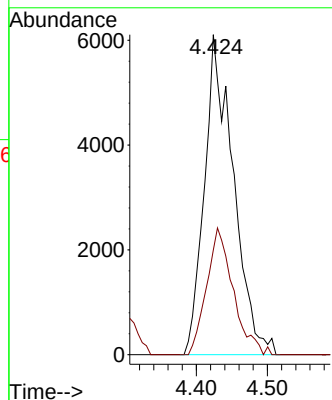
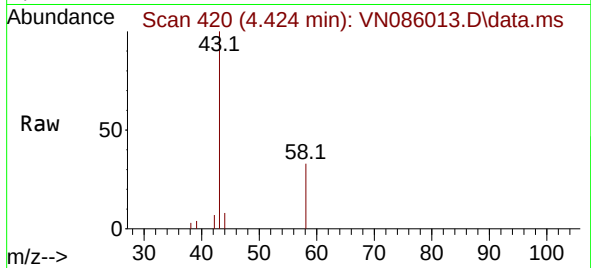




#16
Acetone
Concen: 30.119 ug/l
RT: 4.424 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN086013.D
Acq: 19 Mar 2025 16:50

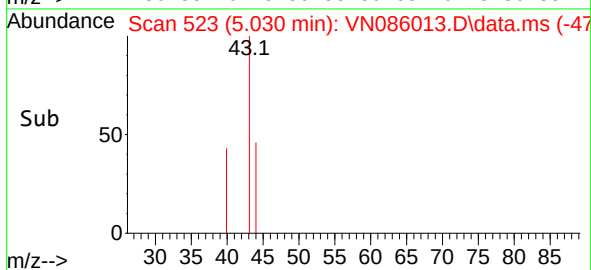
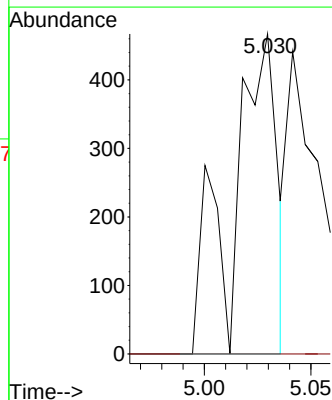
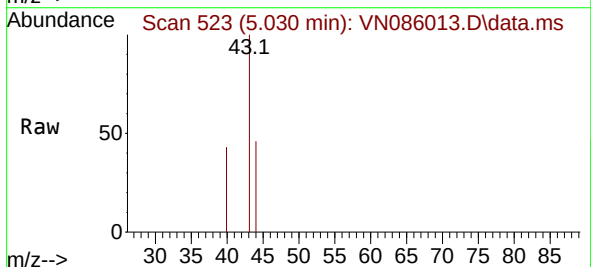
Instrument :
MSVOA_N
ClientSampleId :
PB167194ZHE#03

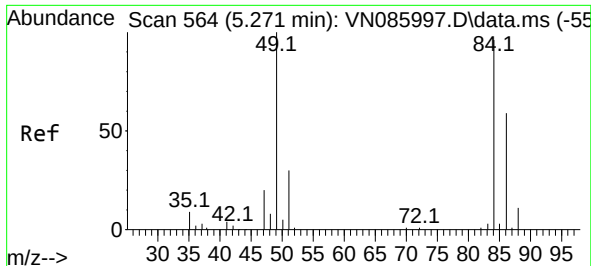
Tgt Ion: 43 Resp: 17253
Ion Ratio Lower Upper
43 100
58 32.7 29.4 44.2



#18
Methyl Acetate
Concen: 0.484 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.006 min
Lab File: VN086013.D
Acq: 19 Mar 2025 16:50

Tgt Ion: 43 Resp: 686
Ion Ratio Lower Upper
43 100
74 0.0 23.9 35.9#

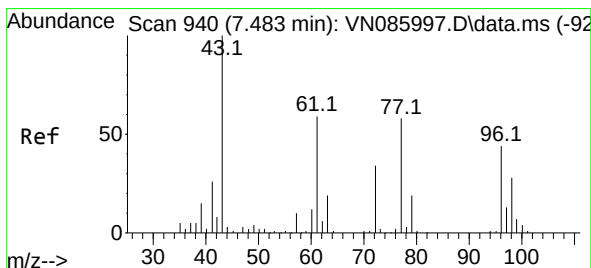
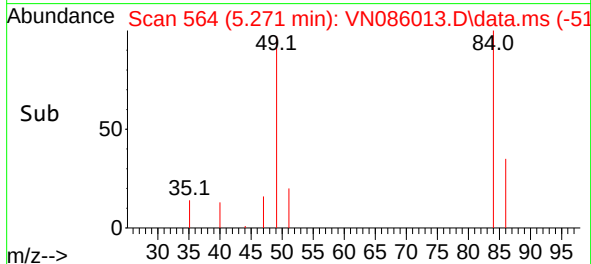
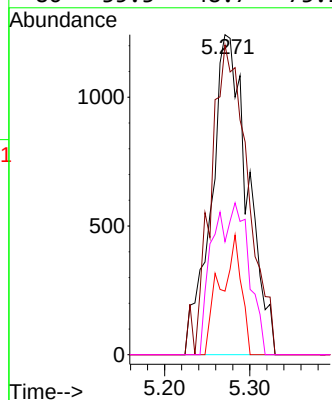
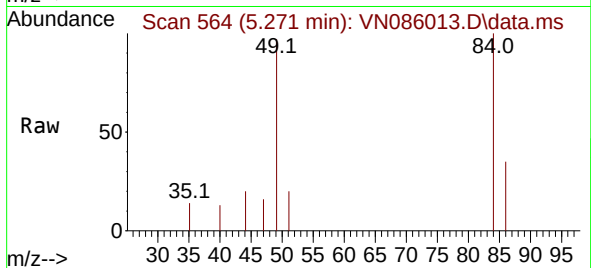




#20
Methylene Chloride
Concen: 2.203 ug/l
RT: 5.271 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN086013.D
Acq: 19 Mar 2025 16:50

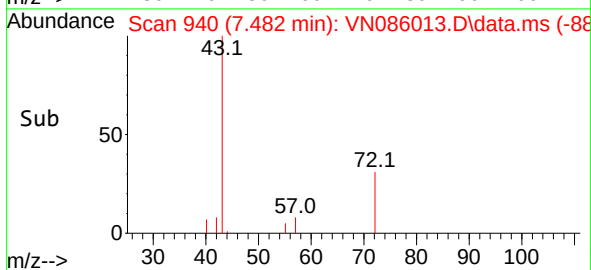
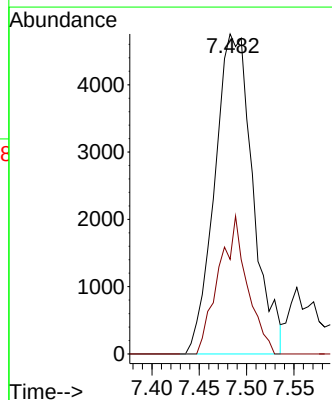
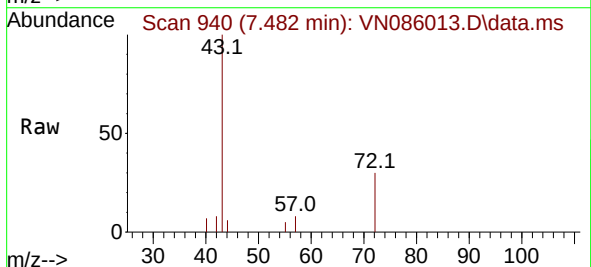
Instrument :
MSVOA_N
ClientSampleId :
PB167194ZHE#03

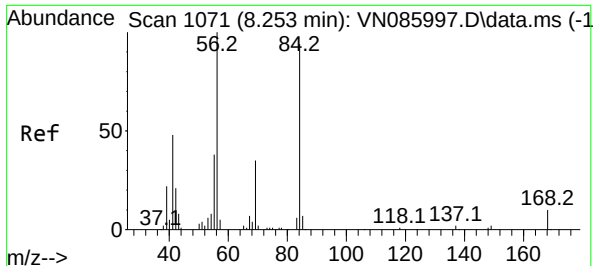
Tgt Ion: 84	Resp:	3691	
Ion	Ratio	Lower	Upper
84	100		
49	96.8	83.3	124.9
51	19.9	24.8	37.2#
86	35.3	48.7	73.1#



#25
2-Butanone
Concen: 16.089 ug/l
RT: 7.482 min Scan# 940
Delta R.T. -0.000 min
Lab File: VN086013.D
Acq: 19 Mar 2025 16:50

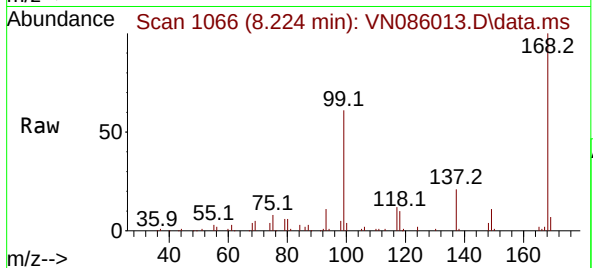
Tgt Ion: 43	Resp: 13298
Ion Ratio	Lower Upper
43 100	
72 29.6	27.4 41.0



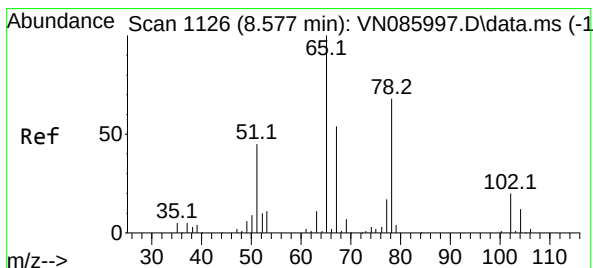
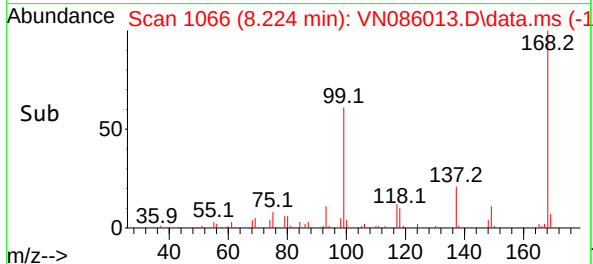
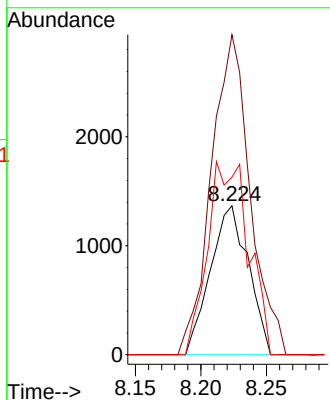


#31
Cyclohexane
Concen: 1.179 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.030 min
Lab File: VN086013.D
Acq: 19 Mar 2025 16:50

Instrument :
MSVOA_N
ClientSampleId :
PB167194ZHE#03

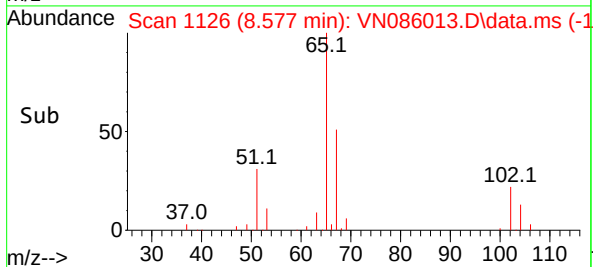
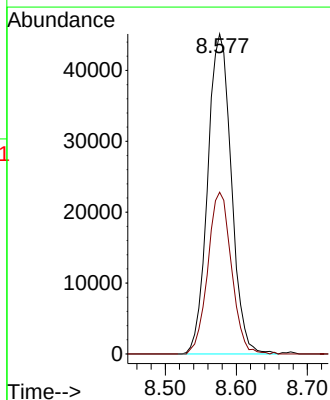
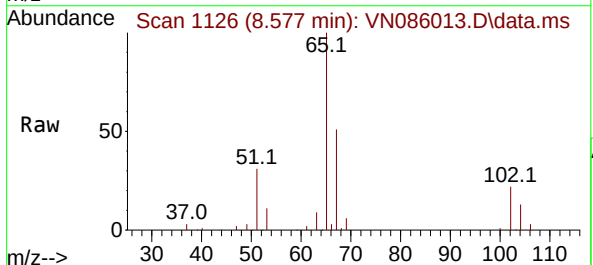


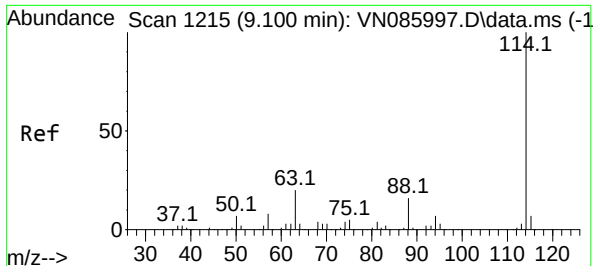
Tgt Ion: 56 Resp: 2754
Ion Ratio Lower Upper
56 100
69 214.9 28.0 42.0#
84 119.2 75.0 112.6#



#33
1,2-Dichloroethane-d4
Concen: 55.552 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN086013.D
Acq: 19 Mar 2025 16:50

Tgt Ion: 65 Resp: 104159
Ion Ratio Lower Upper
65 100
67 50.5 0.0 102.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086013.D

Acq: 19 Mar 2025 16:50

Instrument :

MSVOA_N

ClientSampleId :

PB167194ZHE#03

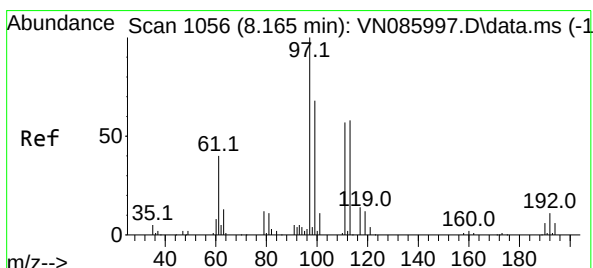
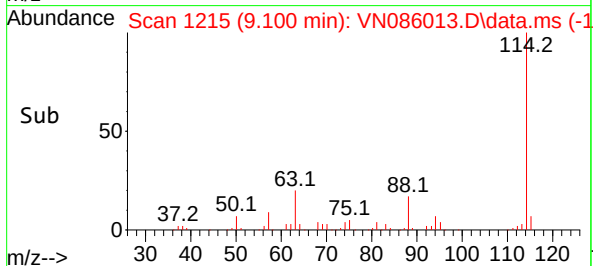
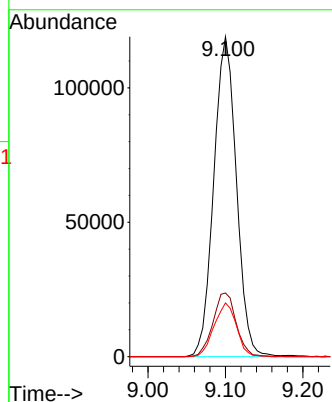
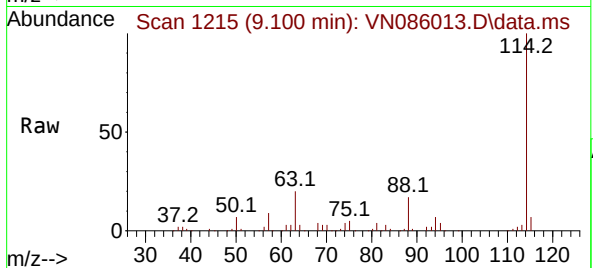
Tgt Ion:114 Resp: 241881

Ion Ratio Lower Upper

114 100

63 19.9 0.0 39.6

88 16.8 0.0 32.6



#35

Dibromofluoromethane

Concen: 52.537 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086013.D

Acq: 19 Mar 2025 16:50

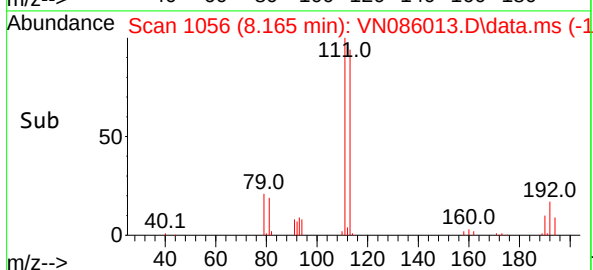
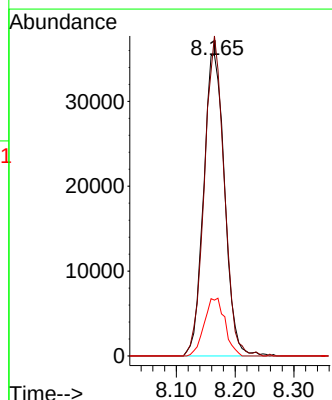
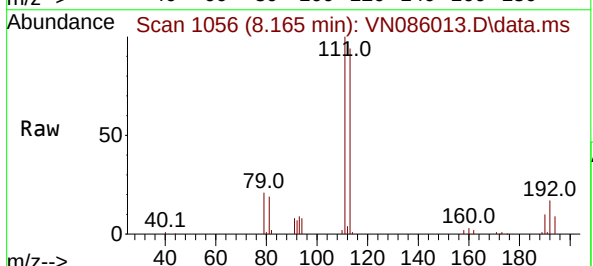
Tgt Ion:113 Resp: 88699

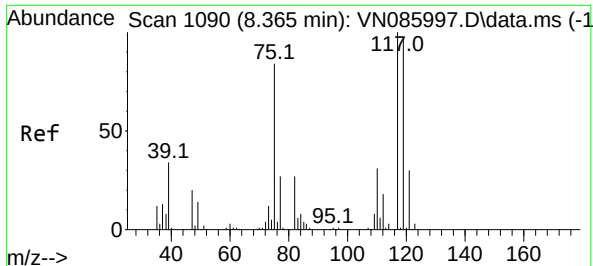
Ion Ratio Lower Upper

113 100

111 99.5 81.8 122.8

192 18.8 15.9 23.9





#36

1,1-Dichloropropene

Concen: 4.860 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

Lab File: VN086013.D

Acq: 19 Mar 2025 16:50

Instrument :

MSVOA_N

ClientSampleId :

PB167194ZHE#03

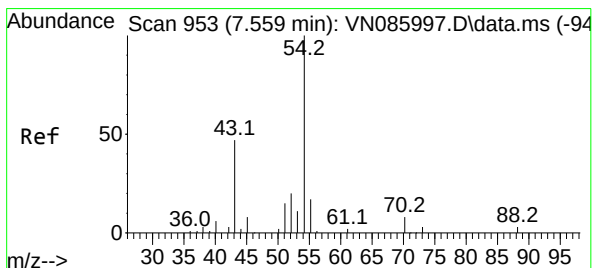
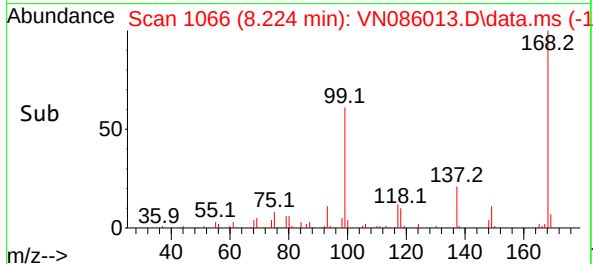
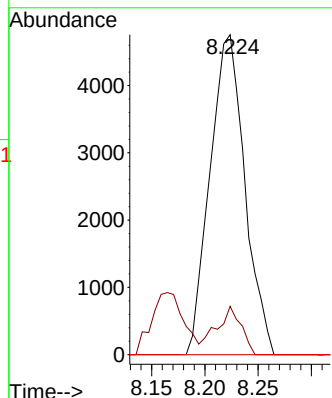
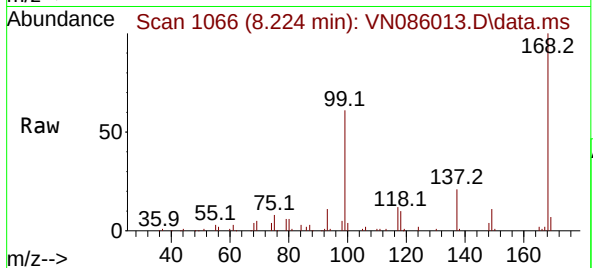
Tgt Ion: 75 Resp: 10804

Ion Ratio Lower Upper

75 100

110 10.9 17.8 53.3#

77 0.0 25.0 37.4#



#37

Ethyl Acetate

Concen: 1.131 ug/l

RT: 7.553 min Scan# 952

Delta R.T. -0.006 min

Lab File: VN086013.D

Acq: 19 Mar 2025 16:50

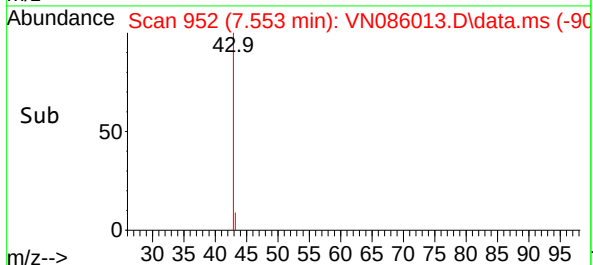
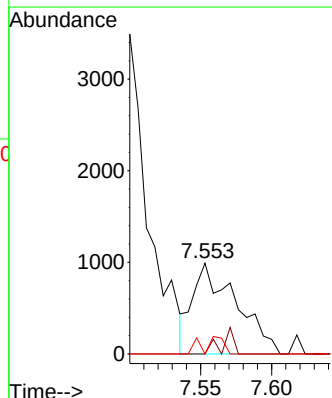
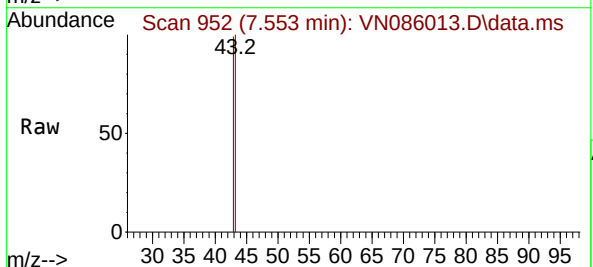
Tgt Ion: 43 Resp: 2121

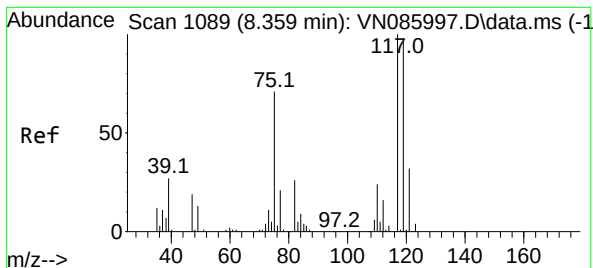
Ion Ratio Lower Upper

43 100

61 7.5 13.0 19.4#

70 9.0 11.0 16.6#





#38

Carbon Tetrachloride

Concen: 5.203 ug/l

RT: 8.224 min Scan# 110

Delta R.T. -0.136 min

Lab File: VN086013.D

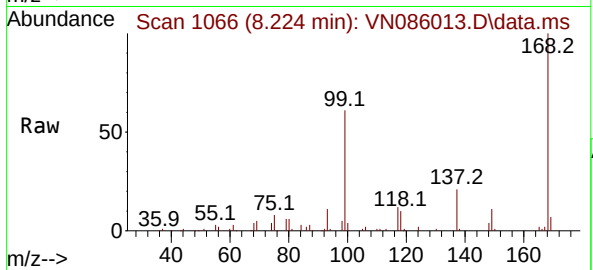
Acq: 19 Mar 2025 16:50

Instrument :

MSVOA_N

ClientSampleId :

PB167194ZHE#03



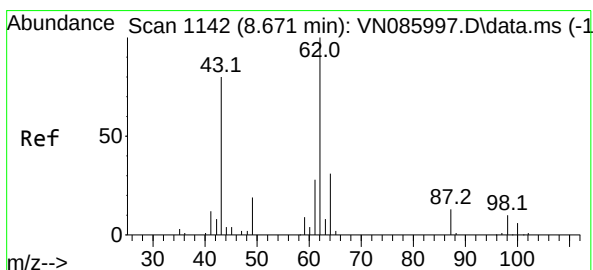
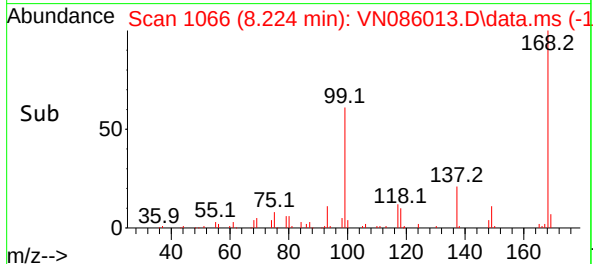
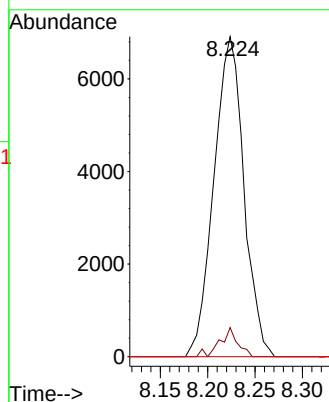
Tgt Ion:117 Resp: 15207

Ion Ratio Lower Upper

117 100

119 9.1 77.0 115.4#

121 0.0 25.6 38.4#



#42

1,2-Dichloroethane

Concen: 0.275 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. 0.011 min

Lab File: VN086013.D

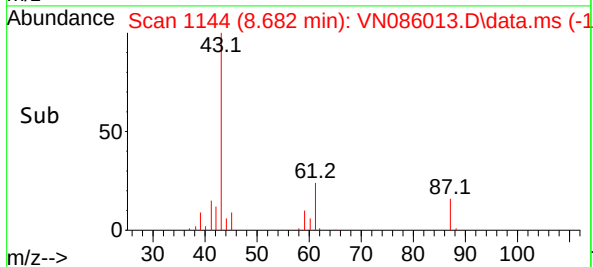
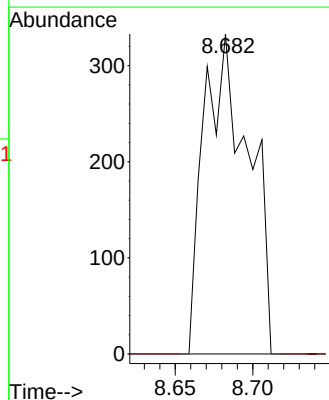
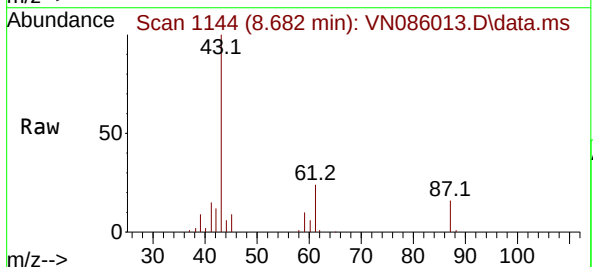
Acq: 19 Mar 2025 16:50

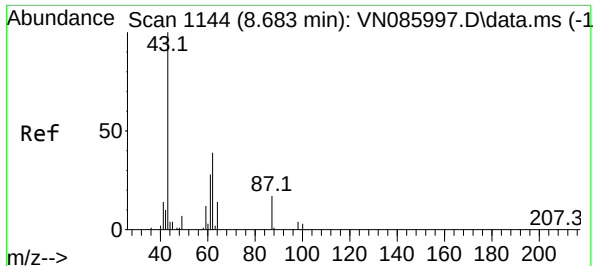
Tgt Ion: 62 Resp: 668

Ion Ratio Lower Upper

62 100

98 0.0 0.0 18.6





#43

Isopropyl Acetate

Concen: 19.394 ug/l

RT: 8.688 min Scan# 1144

Delta R.T. 0.006 min

Lab File: VN086013.D

Acq: 19 Mar 2025 16:50

Instrument :

MSVOA_N

ClientSampleId :

PB167194ZHE#03

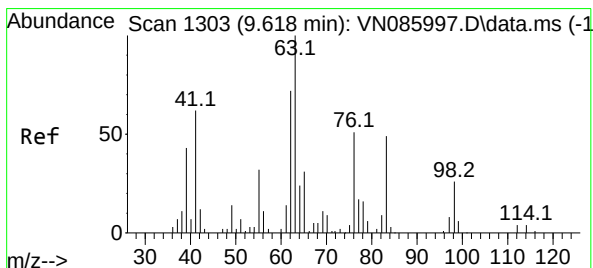
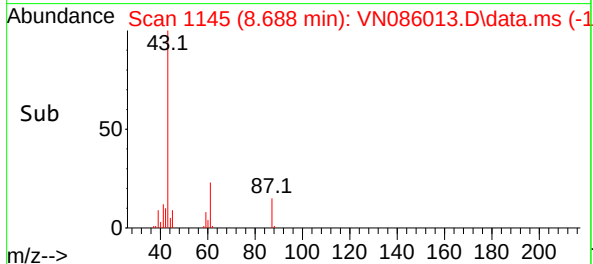
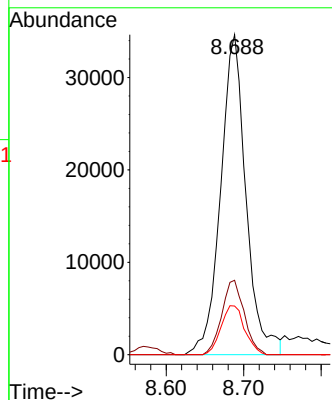
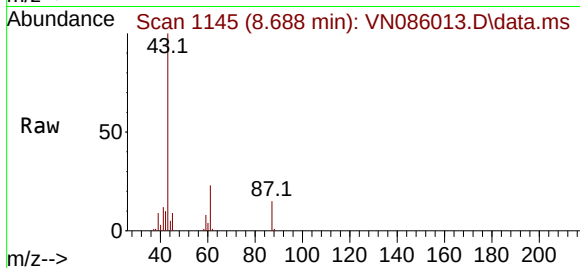
Tgt Ion: 43 Resp: 78820

Ion Ratio Lower Upper

43 100

61 20.6 25.0 37.6#

87 14.2 13.0 19.4



#45

1,2-Dichloropropane

Concen: 0.651 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.123 min

Lab File: VN086013.D

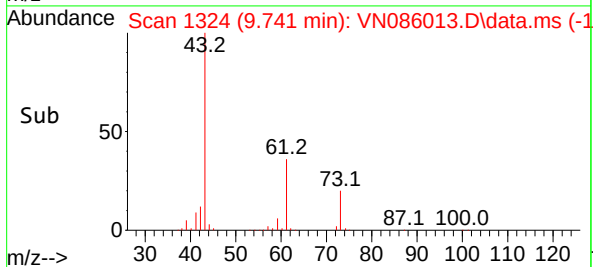
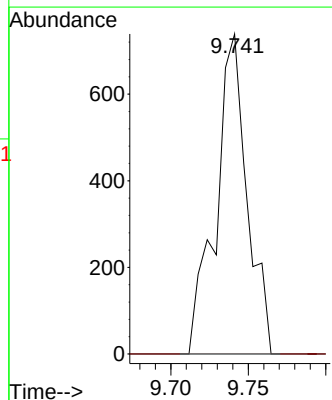
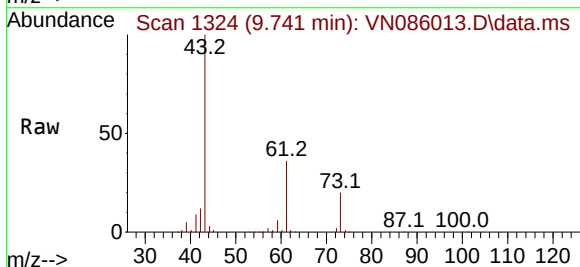
Acq: 19 Mar 2025 16:50

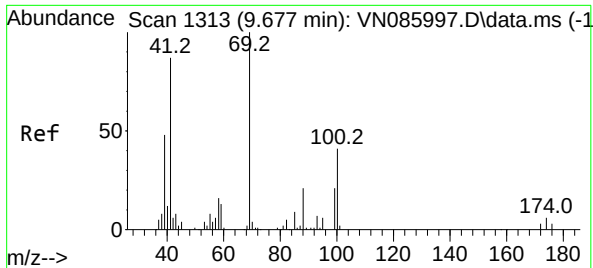
Tgt Ion: 63 Resp: 1034

Ion Ratio Lower Upper

63 100

65 0.0 24.7 37.1#

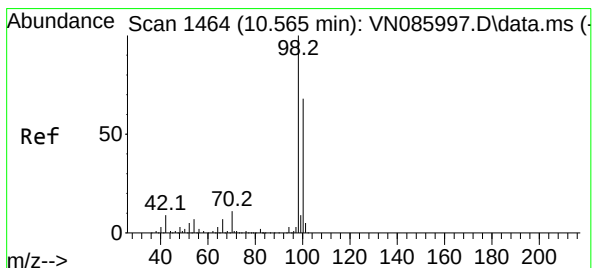
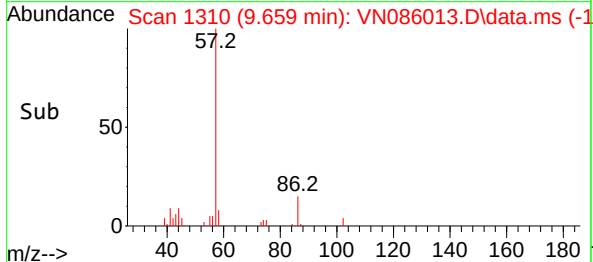
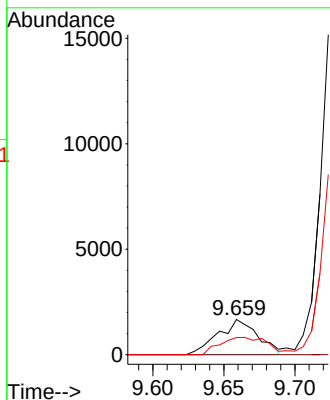
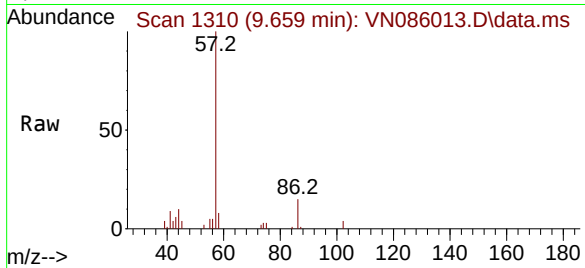




#48
Methyl methacrylate
Concen: 2.420 ug/l
RT: 9.659 min Scan# 11
Delta R.T. -0.018 min
Lab File: VN086013.D
Acq: 19 Mar 2025 16:50

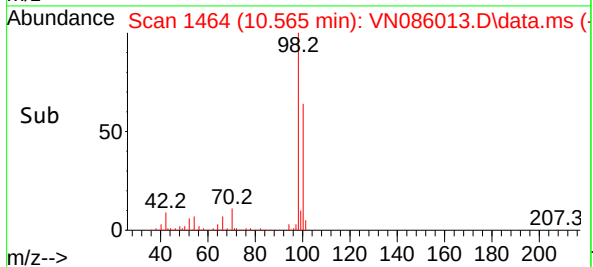
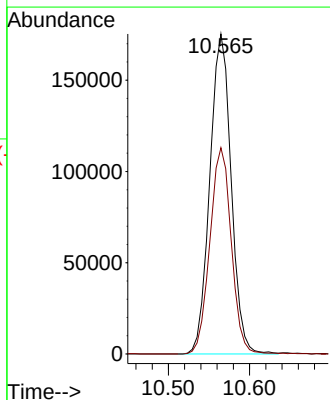
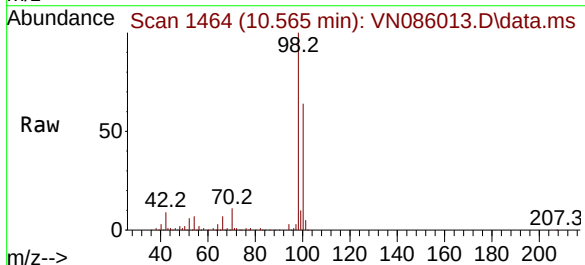
Instrument :
MSVOA_N
ClientSampleId :
PB167194ZHE#03

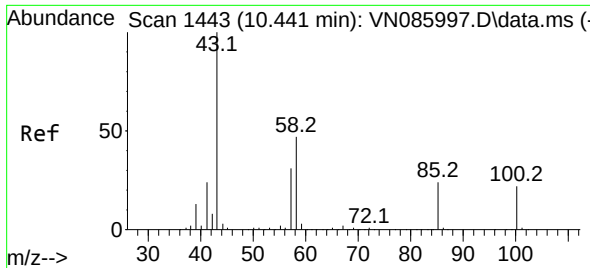
Tgt Ion: 41 Resp: 3245
Ion Ratio Lower Upper
41 100
69 0.0 83.1 124.7#
39 61.8 45.6 68.4



#50
Toluene-d8
Concen: 52.260 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086013.D
Acq: 19 Mar 2025 16:50

Tgt Ion: 98 Resp: 320214
Ion Ratio Lower Upper
98 100
100 64.7 53.1 79.7

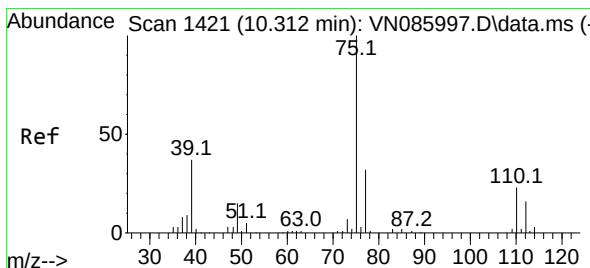
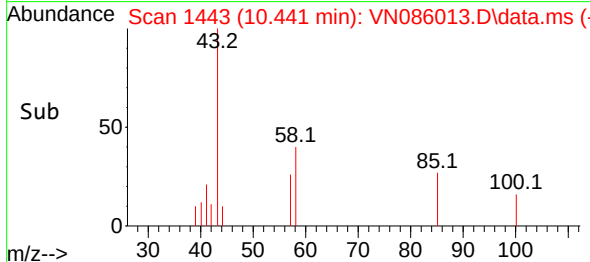
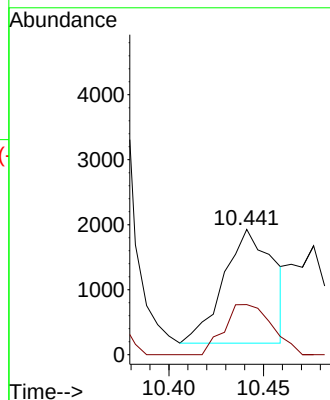
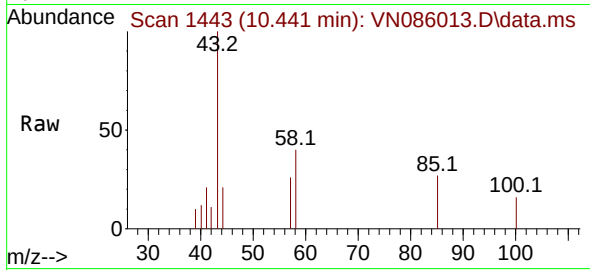




#51
4-Methyl-2-Pentanone
Concen: 1.795 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086013.D
Acq: 19 Mar 2025 16:50

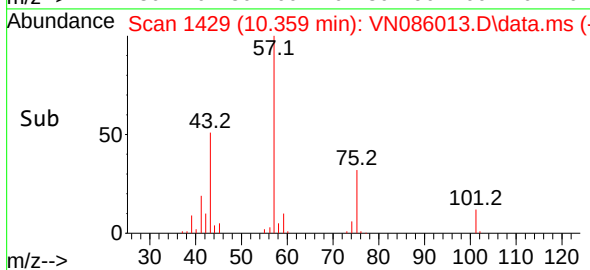
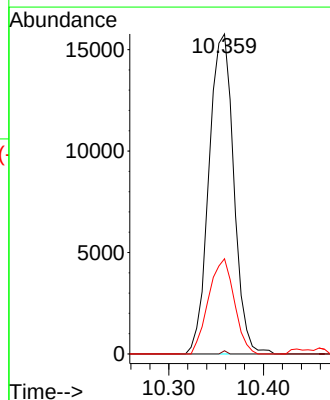
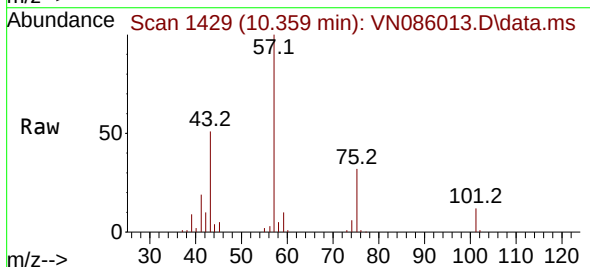
Instrument :
MSVOA_N
ClientSampleId :
PB167194ZHE#03

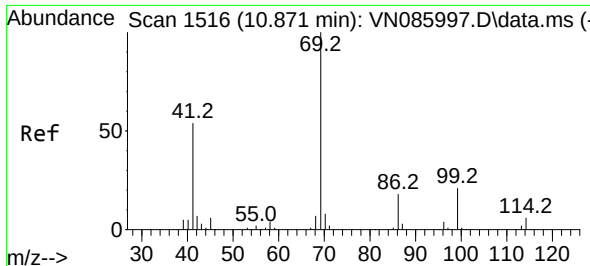
Tgt Ion: 43 Resp: 3218
Ion Ratio Lower Upper
43 100
58 42.0 37.4 56.0



#54
cis-1,3-Dichloropropene
Concen: 10.709 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. 0.047 min
Lab File: VN086013.D
Acq: 19 Mar 2025 16:50

Tgt Ion: 75 Resp: 28628
Ion Ratio Lower Upper
75 100
77 1.0 25.3 37.9#
39 29.7 29.6 44.4

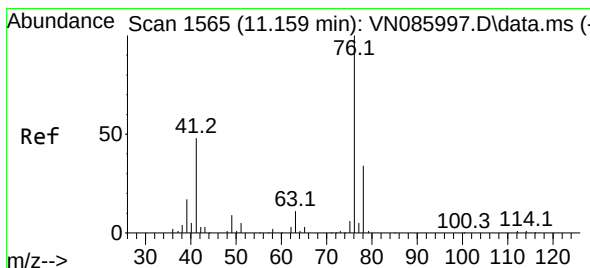
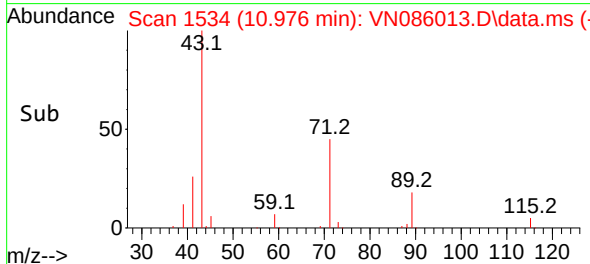
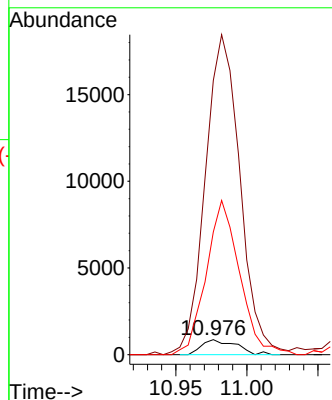
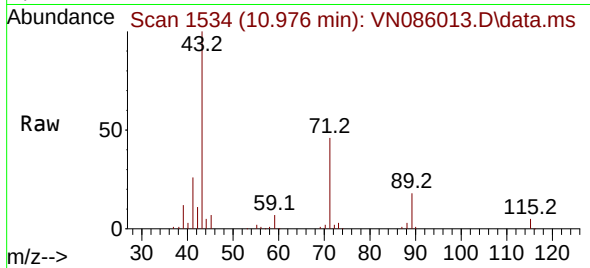




#56
Ethyl methacrylate
Concen: 0.899 ug/l
RT: 10.976 min Scan# 1534
Delta R.T. 0.105 min
Lab File: VN086013.D
Acq: 19 Mar 2025 16:50

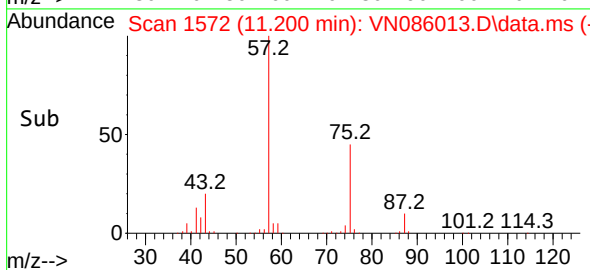
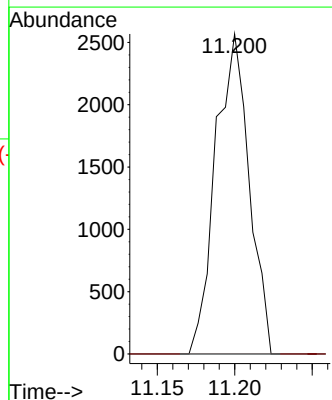
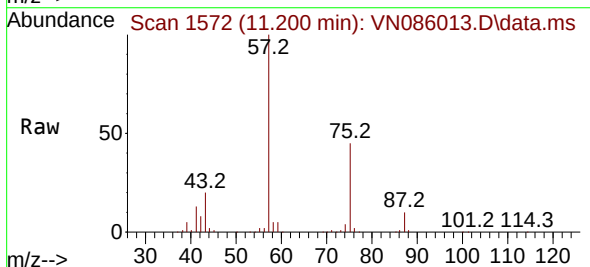
Instrument :
MSVOA_N
ClientSampleId :
PB167194ZHE#03

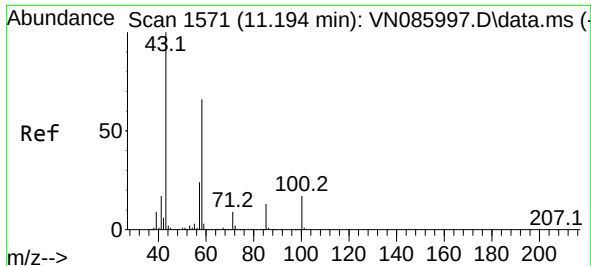
Tgt Ion: 69 Resp: 1467
Ion Ratio Lower Upper
69 100
41 2145.6 41.6 62.4#
39 993.6 21.8 32.8#



#57
1,3-Dichloropropane
Concen: 1.392 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.041 min
Lab File: VN086013.D
Acq: 19 Mar 2025 16:50

Tgt Ion: 76 Resp: 3865
Ion Ratio Lower Upper
76 100
78 0.0 25.8 38.6#

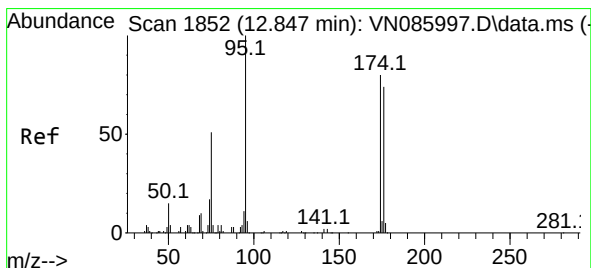
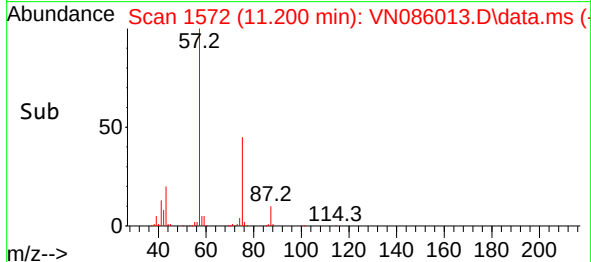
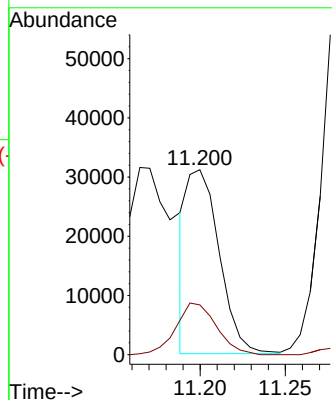
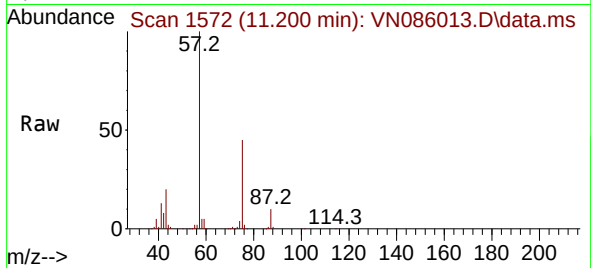




#59
2-Hexanone
Concen: 31.600 ug/l
RT: 11.200 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN086013.D
Acq: 19 Mar 2025 16:50

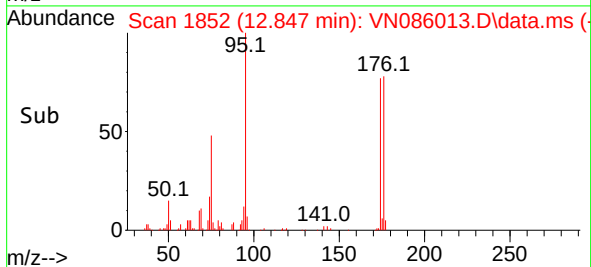
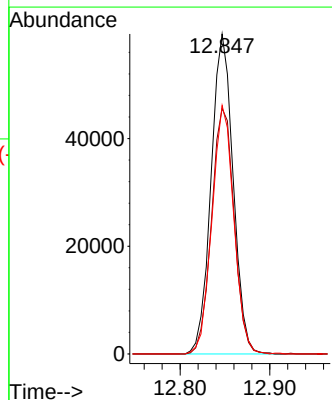
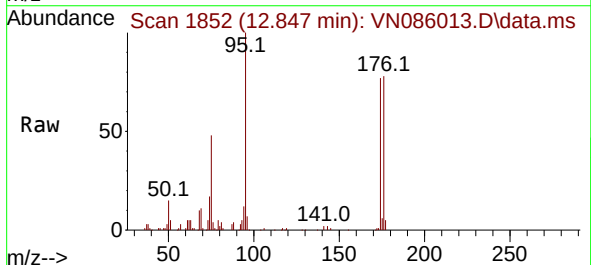
Instrument :
MSVOA_N
ClientSampleId :
PB167194ZHE#03

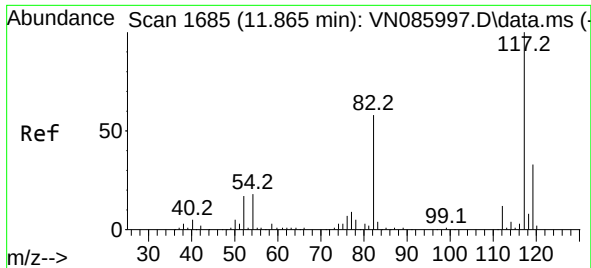
Tgt Ion: 43 Resp: 41261
Ion Ratio Lower Upper
43 100
58 35.0 32.4 97.2



#62
4-Bromofluorobenzene
Concen: 46.337 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086013.D
Acq: 19 Mar 2025 16:50

Tgt Ion: 95 Resp: 101256
Ion Ratio Lower Upper
95 100
174 78.7 0.0 156.8
176 77.1 0.0 152.2

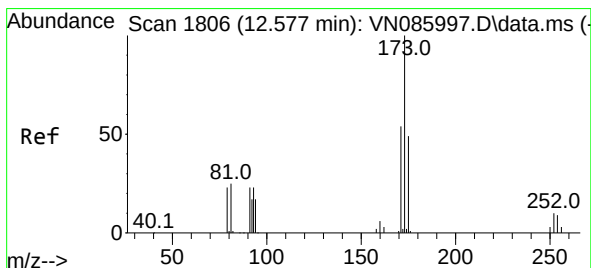
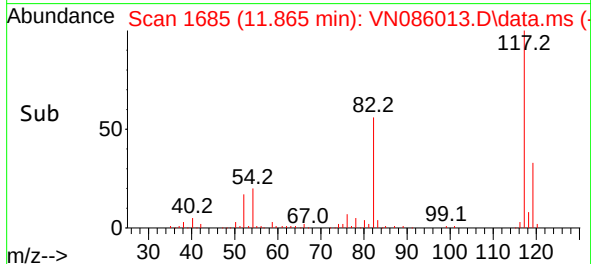
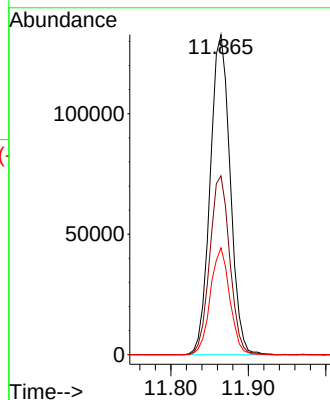
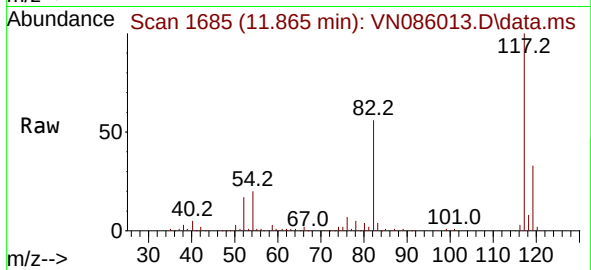




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN086013.D
Acq: 19 Mar 2025 16:50

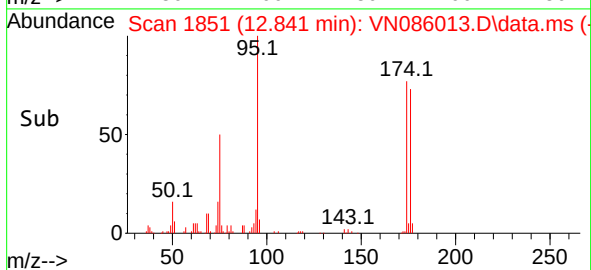
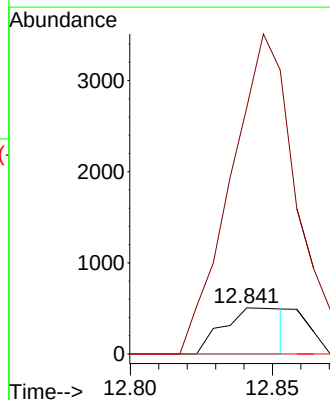
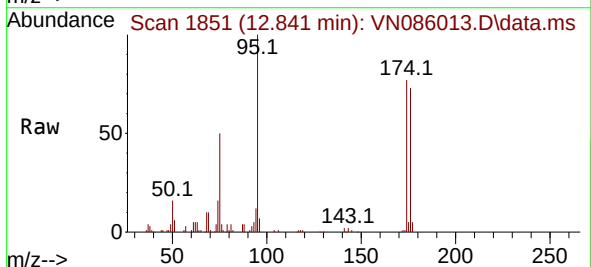
Instrument :
MSVOA_N
ClientSampleId :
PB167194ZHE#03

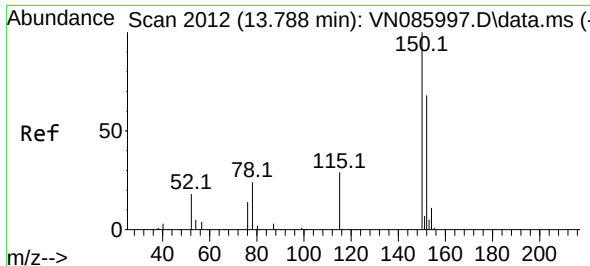
Tgt Ion:117 Resp: 238409
Ion Ratio Lower Upper
117 100
82 55.9 46.7 70.1
119 33.4 26.5 39.7



#71
Bromoform
Concen: 0.436 ug/l
RT: 12.841 min Scan# 1851
Delta R.T. 0.264 min
Lab File: VN086013.D
Acq: 19 Mar 2025 16:50

Tgt Ion:173 Resp: 739
Ion Ratio Lower Upper
173 100
175 610.7 24.3 73.0#
254 0.0 0.0 0.0

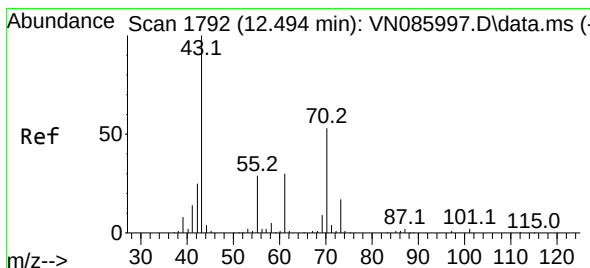
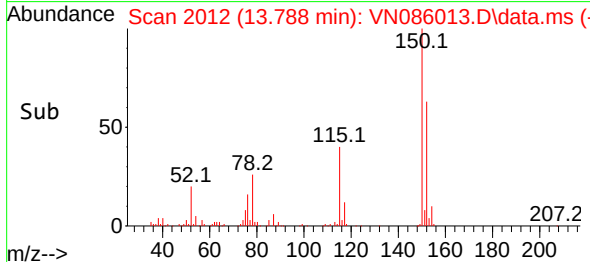
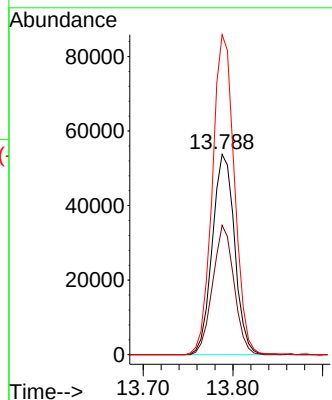
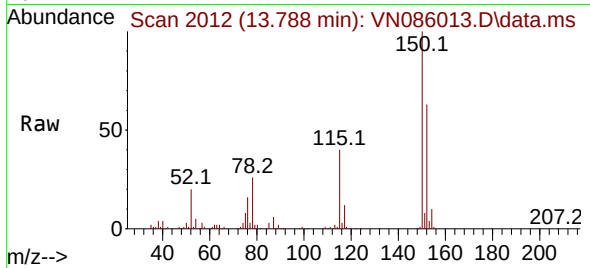




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN086013.D
Acq: 19 Mar 2025 16:50

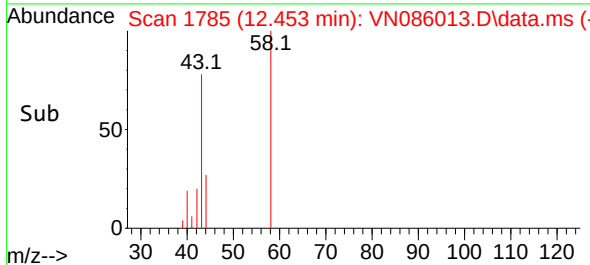
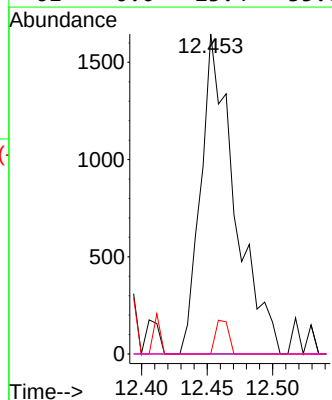
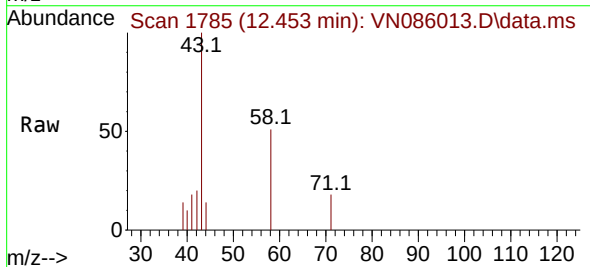
Instrument :
MSVOA_N
ClientSampleId :
PB167194ZHE#03

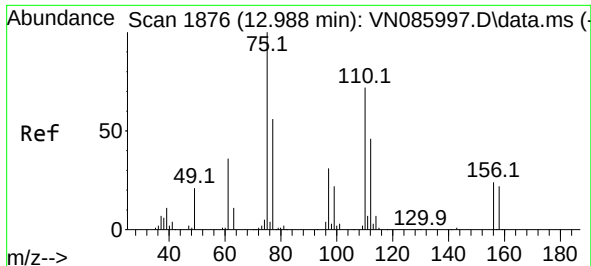
Tgt Ion:152 Resp: 92993
Ion Ratio Lower Upper
152 100
115 61.8 31.1 93.2
150 157.8 0.0 359.6



#74
N-ethyl acetate
Concen: 1.397 ug/l
RT: 12.453 min Scan# 1785
Delta R.T. -0.041 min
Lab File: VN086013.D
Acq: 19 Mar 2025 16:50

Tgt Ion: 43 Resp: 2968
Ion Ratio Lower Upper
43 100
70 0.0 43.0 64.4#
55 4.0 23.8 35.8#
61 0.0 23.4 35.0#

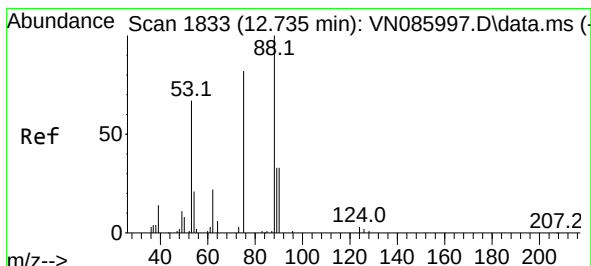
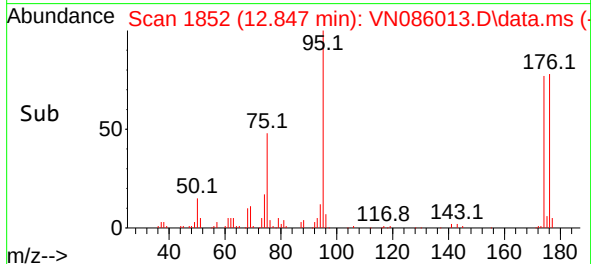
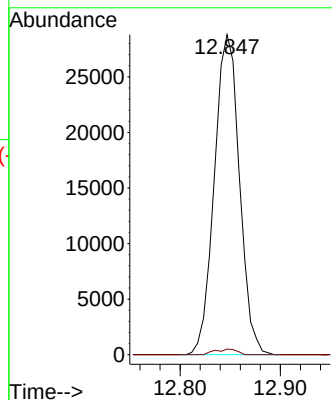
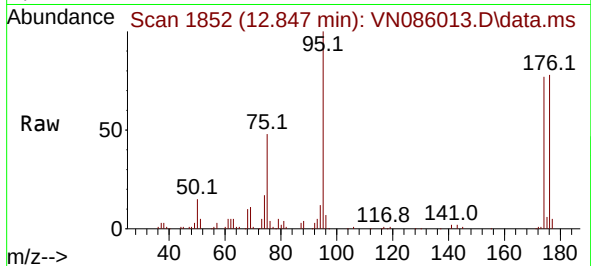




#76
1,2,3-Trichloropropane
Concen: 24.084 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN086013.D
Acq: 19 Mar 2025 16:50

Instrument :
MSVOA_N
ClientSampleId :
PB167194ZHE#03

Tgt Ion: 75 Resp: 50142
Ion Ratio Lower Upper
75 100
77 1.5 83.7 251.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 63.675 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086013.D
Acq: 19 Mar 2025 16:50

Tgt Ion: 75 Resp: 50142
Ion Ratio Lower Upper
75 100
53 0.0 66.0 99.0#
89 0.0 36.9 55.3#

