

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN052725\
 Data File : VN086781.D
 Acq On : 27 May 2025 13:42
 Operator : JC\MD
 Sample : IBLK
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

Quant Time: May 29 01:47:54 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
 Quant Title : SW846 8260
 QLast Update : Sat May 17 00:46:13 2025
 Response via : Initial Calibration

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

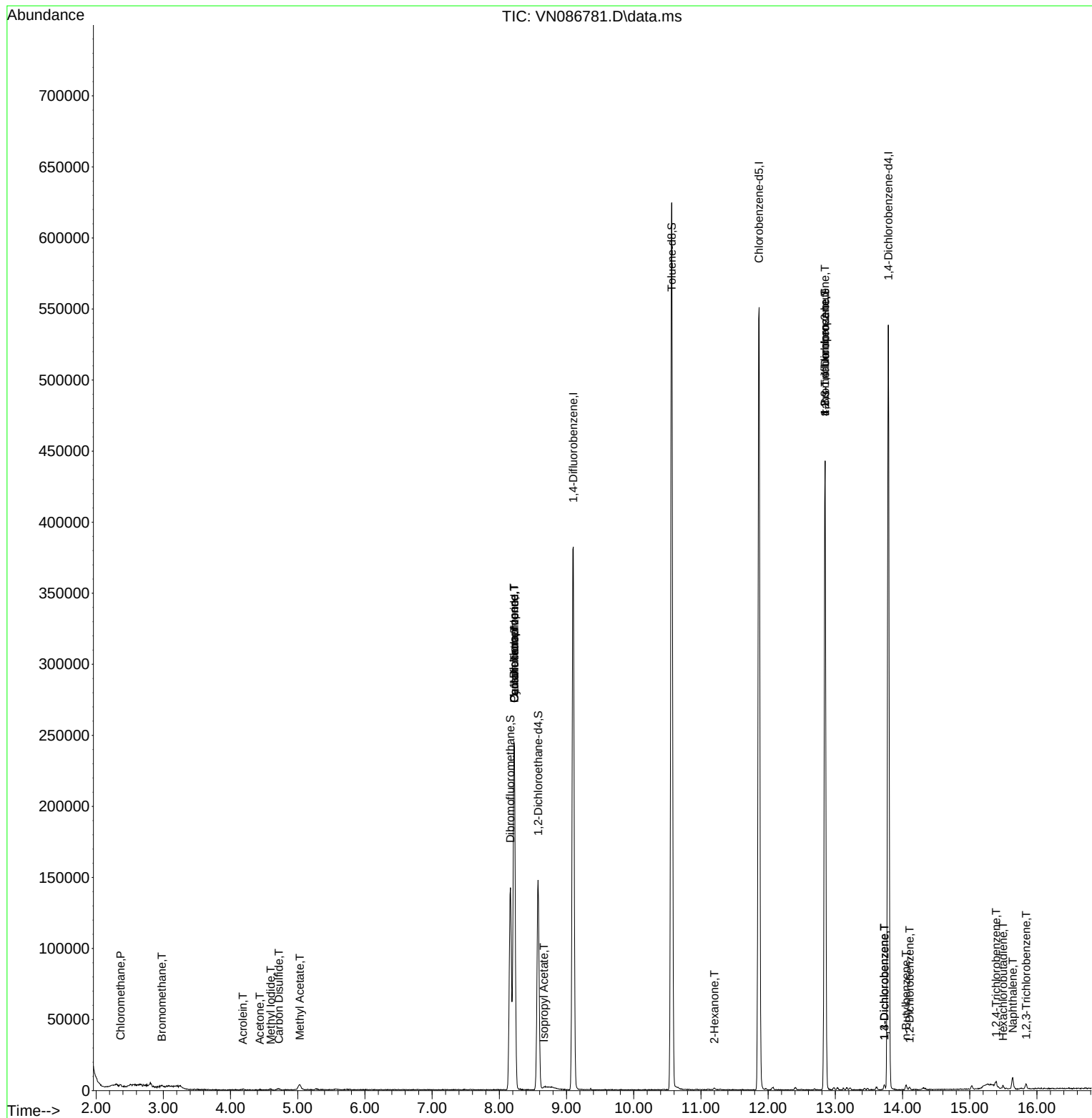
Internal Standards						
1) Pentafluorobenzene	8.224	168	192953	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	365738	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	352002	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	157490	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	120810	45.311	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 90.620%			
35) Dibromofluoromethane	8.165	113	109434	50.242	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.480%			
50) Toluene-d8	10.565	98	456640	50.590	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.180%			
62) 4-Bromofluorobenzene	12.847	95	168750	52.947	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 105.900%			
Target Compounds					Qvalue	
3) Chloromethane	2.365	50	1557	0.494	ug/l	95
5) Bromomethane	2.977	94	753	0.461	ug/l #	32
10) Methyl Iodide	4.601	142	1032	0.410	ug/l #	43
13) Acrolein	4.183	56	623	1.200	ug/l #	46
16) Acetone	4.436	43	375	0.376	ug/l #	42
17) Carbon Disulfide	4.718	76	2245	0.377	ug/l #	75
18) Methyl Acetate	5.030	43	7404	2.652	ug/l	97
31) Cyclohexane	8.224	56	3452	0.863	ug/l #	1
36) 1,1-Dichloropropene	8.218	75	14264	4.440	ug/l #	48
38) Carbon Tetrachloride	8.224	117	18567	5.865	ug/l #	16
43) Isopropyl Acetate	8.665	43	1798	0.276	ug/l #	54
59) 2-Hexanone	11.200	43	1033	0.431	ug/l	84
76) 1,2,3-Trichloropropane	12.847	75	78035	21.909	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	78035	55.291	ug/l #	15
87) 1,3-Dichlorobenzene	13.729	146	1138	0.215	ug/l	88
88) 1,4-Dichlorobenzene	13.729	146	1138	0.217	ug/l	87
89) n-Butylbenzene	14.053	91	2572	0.332	ug/l	93
91) 1,2-Dichlorobenzene	14.106	146	1033	0.205	ug/l	92
93) 1,2,4-Trichlorobenzene	15.394	180	1373	0.645	ug/l	95
94) Hexachlorobutadiene	15.494	225	742	0.841	ug/l	94
95) Naphthalene	15.641	128	8818	1.194	ug/l	96
96) 1,2,3-Trichlorobenzene	15.841	180	1651	0.793	ug/l	94

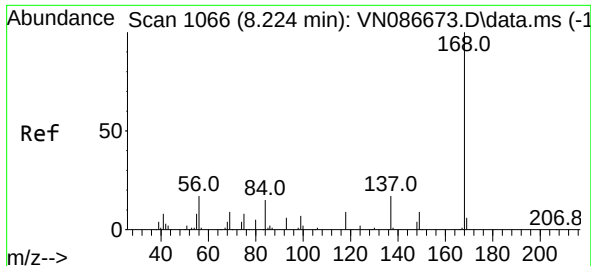
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat May 17 00:46:13 2025
Response via : Initial Calibration

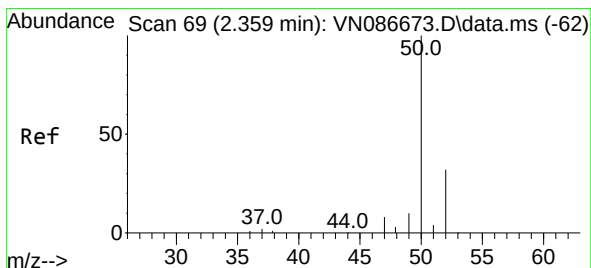
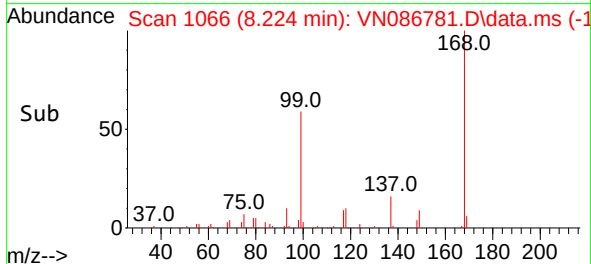
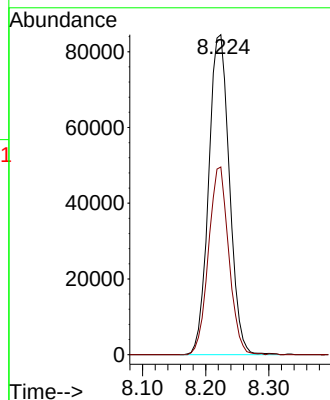
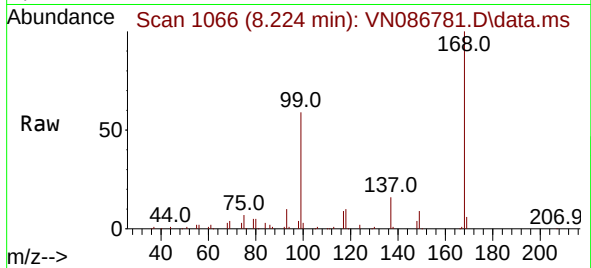




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN086781.D
Acq: 27 May 2025 13:42

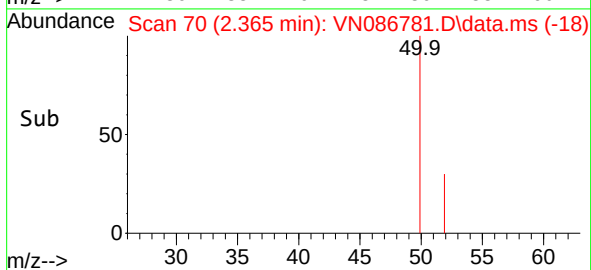
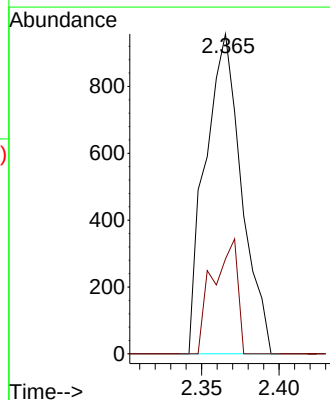
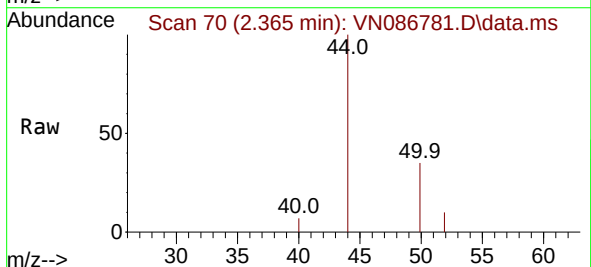
Instrument :
MSVOA_N
ClientSampleId :
IBLK

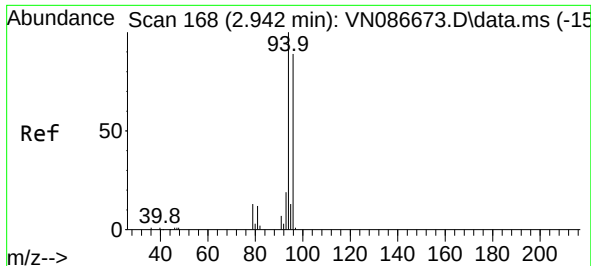
Tgt Ion:168 Resp: 192953
Ion Ratio Lower Upper
168 100
99 58.7 47.0 70.4



#3
Chloromethane
Concen: 0.494 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN086781.D
Acq: 27 May 2025 13:42

Tgt Ion: 50 Resp: 1557
Ion Ratio Lower Upper
50 100
52 29.7 25.9 38.9

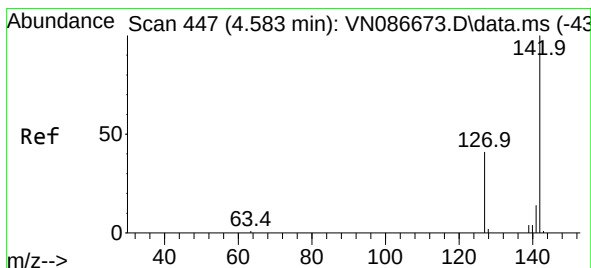
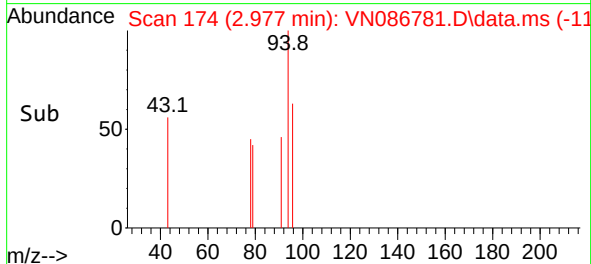
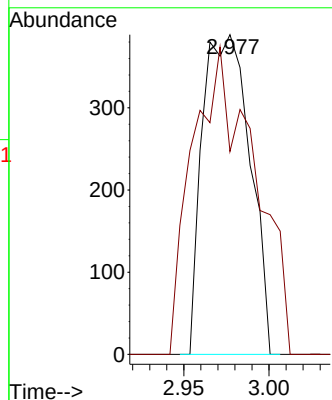
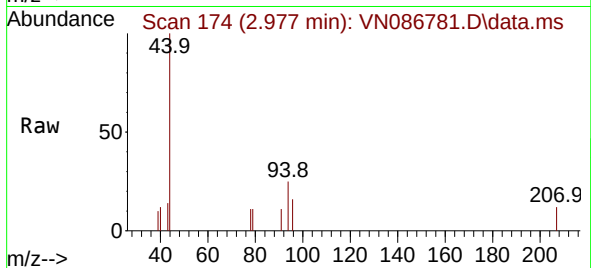




#5
Bromomethane
Concen: 0.461 ug/l
RT: 2.977 min Scan# 11
Delta R.T. 0.035 min
Lab File: VN086781.D
Acq: 27 May 2025 13:42

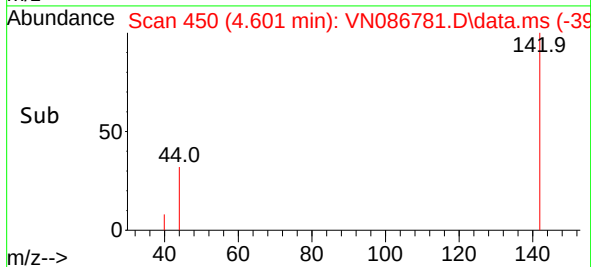
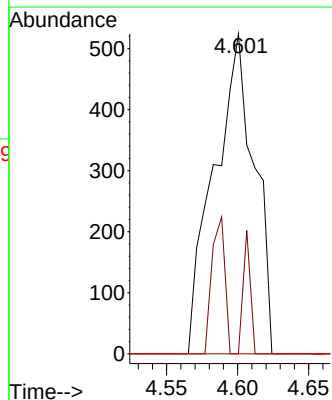
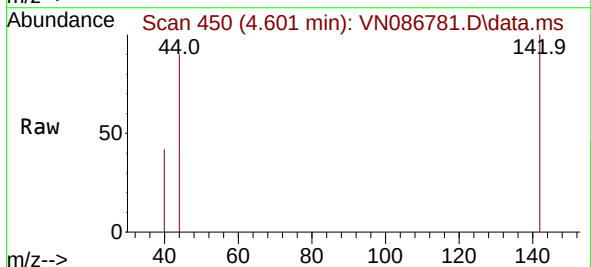
Instrument :
MSVOA_N
ClientSampleId :
IBLK

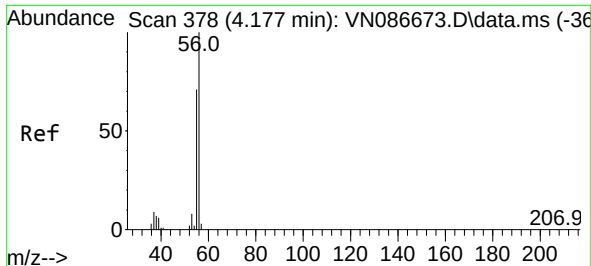
Tgt Ion: 94 Resp: 753
Ion Ratio Lower Upper
94 100
96 24.9 71.2 106.8#



#10
Methyl Iodide
Concen: 0.410 ug/l
RT: 4.601 min Scan# 450
Delta R.T. 0.018 min
Lab File: VN086781.D
Acq: 27 May 2025 13:42

Tgt Ion: 142 Resp: 1032
Ion Ratio Lower Upper
142 100
127 0.0 32.4 48.6#
141 0.0 11.4 17.2#

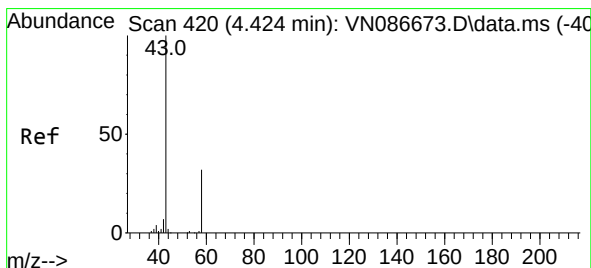
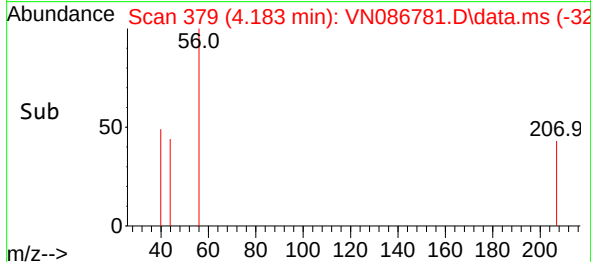
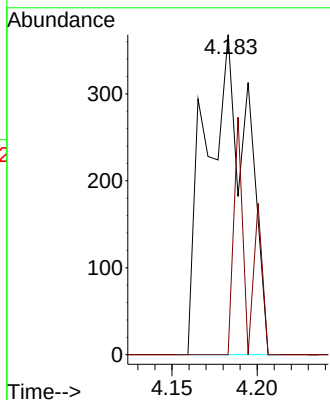
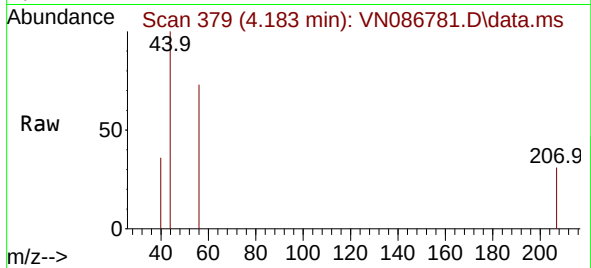




#13
Acrolein
Concen: 1.200 ug/l
RT: 4.183 min Scan# 31
Delta R.T. 0.006 min
Lab File: VN086781.D
Acq: 27 May 2025 13:42

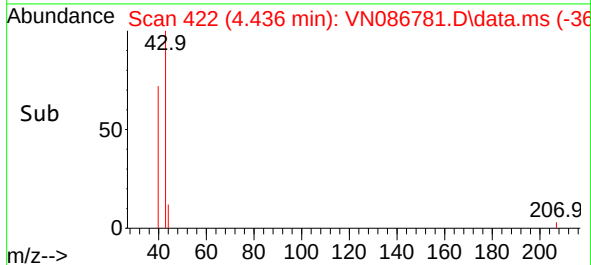
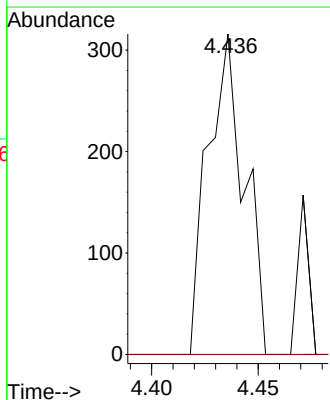
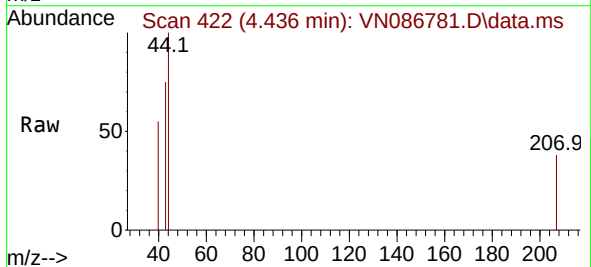
Instrument :
MSVOA_N
ClientSampleId :
IBLK

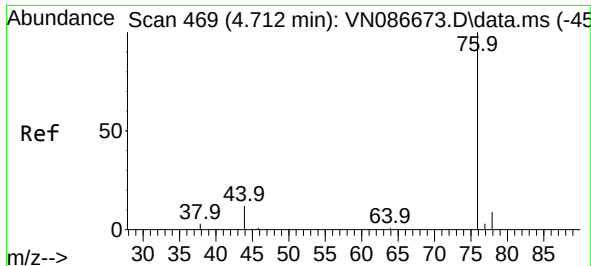
Tgt Ion: 56 Resp: 623
Ion Ratio Lower Upper
56 100
55 25.4 55.7 83.5#



#16
Acetone
Concen: 0.376 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.012 min
Lab File: VN086781.D
Acq: 27 May 2025 13:42

Tgt Ion: 43 Resp: 375
Ion Ratio Lower Upper
43 100
58 0.0 25.8 38.6#

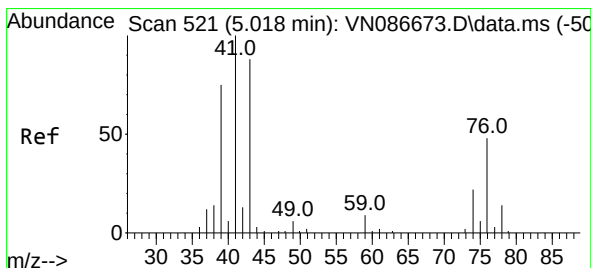
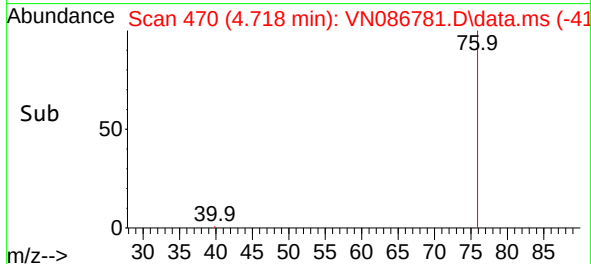
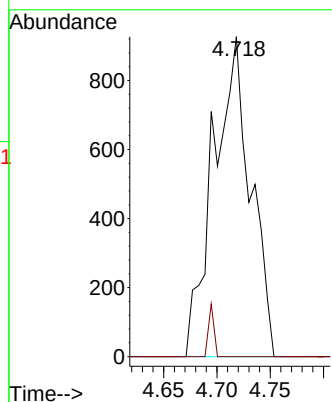
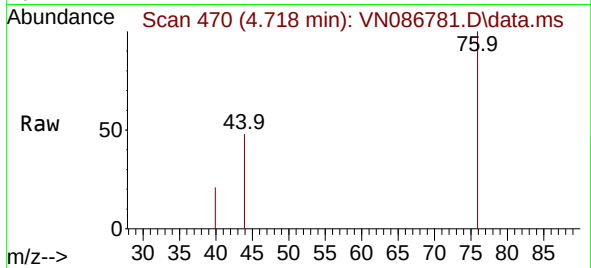




#17
Carbon Disulfide
Concen: 0.377 ug/l
RT: 4.718 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN086781.D
Acq: 27 May 2025 13:42

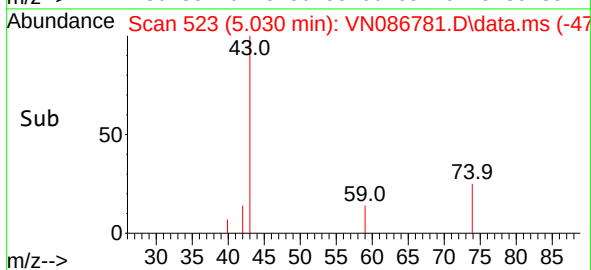
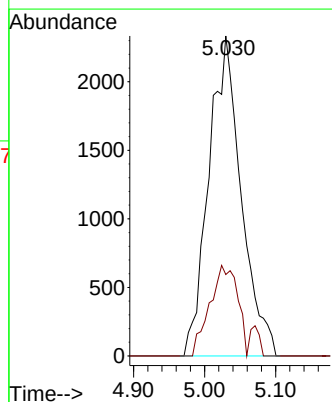
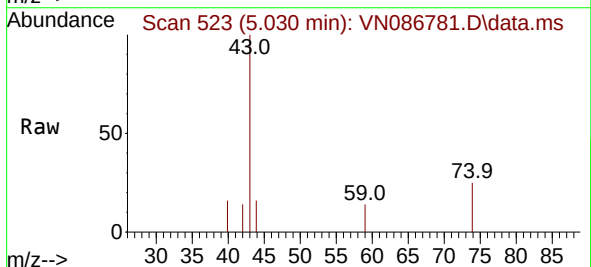
Instrument :
MSVOA_N
ClientSampleId :
IBLK

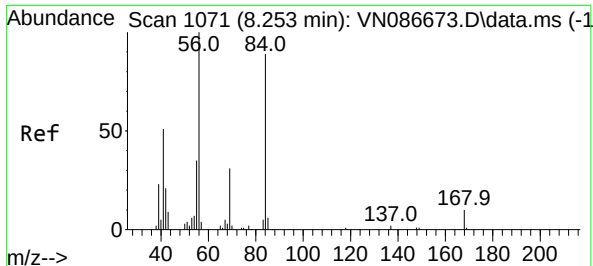
Tgt Ion: 76 Resp: 2245
Ion Ratio Lower Upper
76 100
78 0.0 7.3 10.9#



#18
Methyl Acetate
Concen: 2.652 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.012 min
Lab File: VN086781.D
Acq: 27 May 2025 13:42

Tgt Ion: 43 Resp: 7404
Ion Ratio Lower Upper
43 100
74 24.2 20.5 30.7

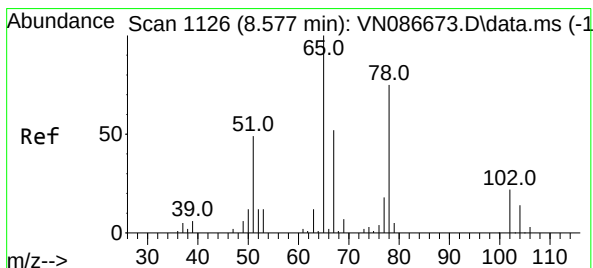
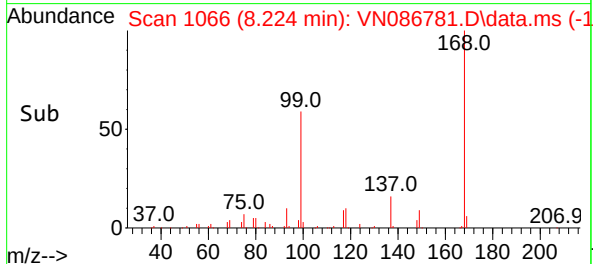
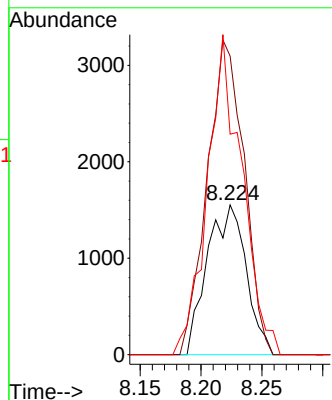
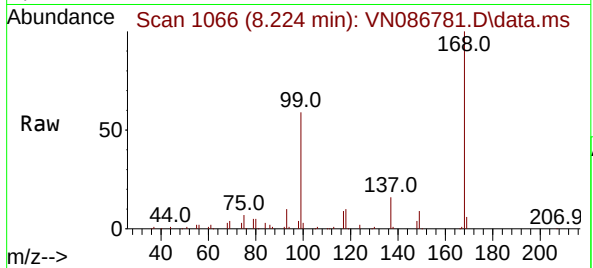




#31
Cyclohexane
Concen: 0.863 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.029 min
Lab File: VN086781.D
Acq: 27 May 2025 13:42

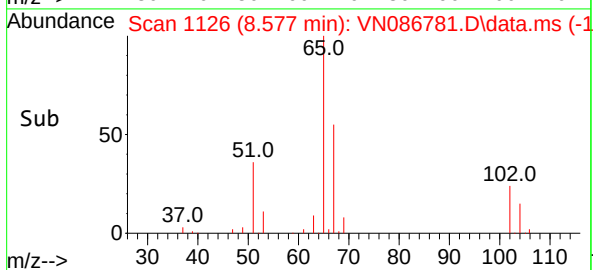
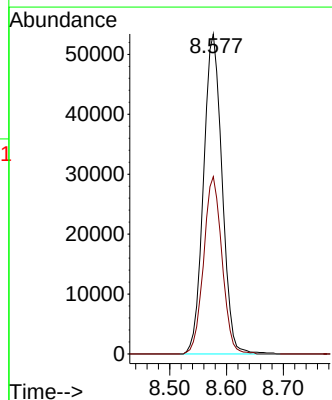
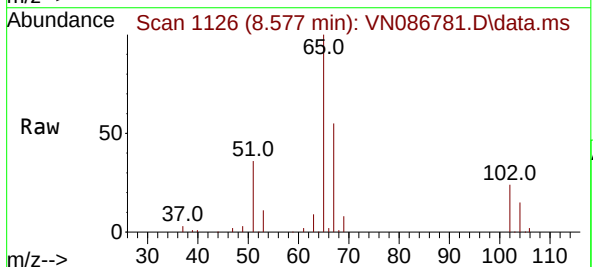
Instrument :
MSVOA_N
ClientSampleId :
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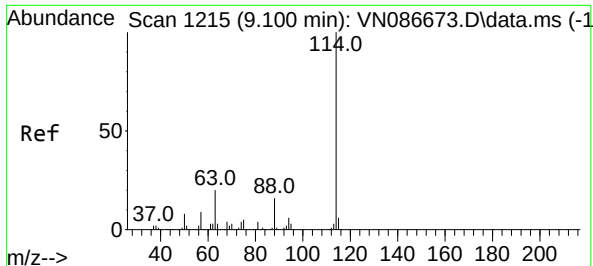
Tgt Ion: 56 Resp: 3452
Ion Ratio Lower Upper
56 100
69 199.4 25.0 37.6#
84 147.2 71.0 106.4#



#33
1,2-Dichloroethane-d4
Concen: 45.311 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VN086781.D
Acq: 27 May 2025 13:42

Tgt Ion: 65 Resp: 120810
Ion Ratio Lower Upper
65 100
67 54.8 0.0 106.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN086781.D

Acq: 27 May 2025 13:42

Instrument :

MSVOA_N

ClientSampleId :

IBLK

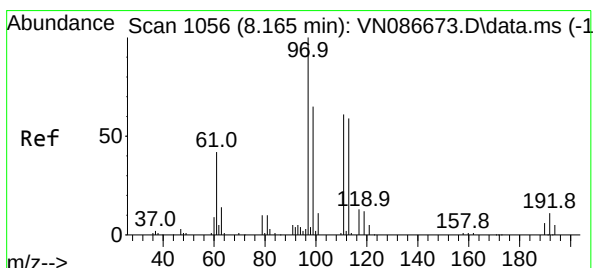
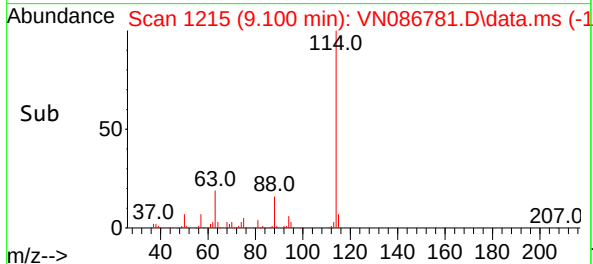
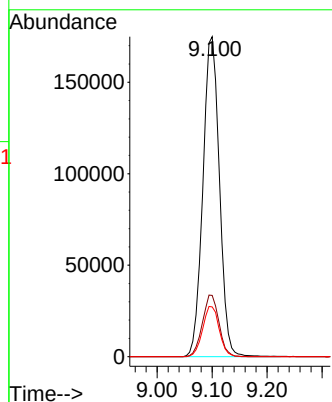
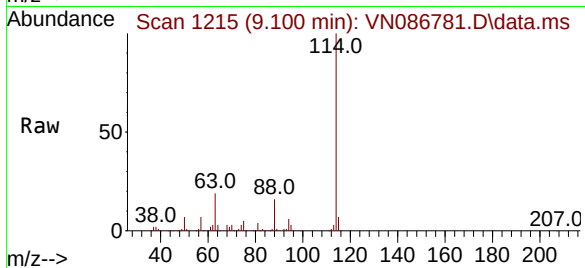
Tgt Ion:114 Resp: 365738

Ion Ratio Lower Upper

114 100

63 19.2 0.0 40.2

88 15.6 0.0 31.2



#35

Dibromofluoromethane

Concen: 50.242 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN086781.D

Acq: 27 May 2025 13:42

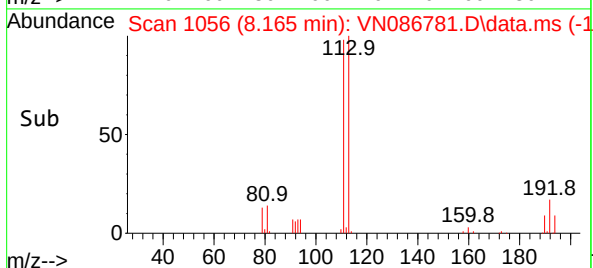
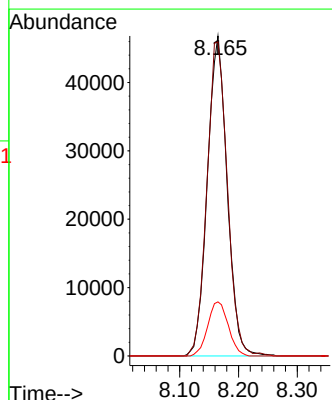
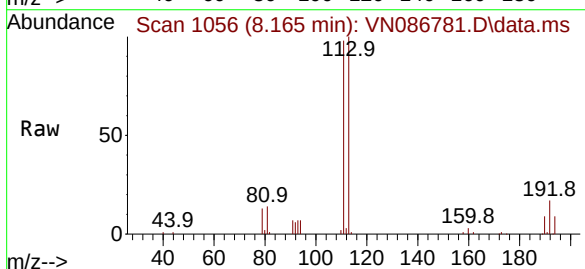
Tgt Ion:113 Resp: 109434

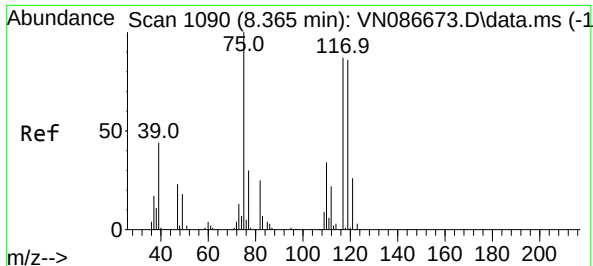
Ion Ratio Lower Upper

113 100

111 101.2 82.2 123.2

192 17.6 13.8 20.8





#36

1,1-Dichloropropene

Concen: 4.440 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.147 min

Lab File: VN086781.D

Acq: 27 May 2025 13:42

Instrument :

MSVOA_N

ClientSampleId :

IBLK

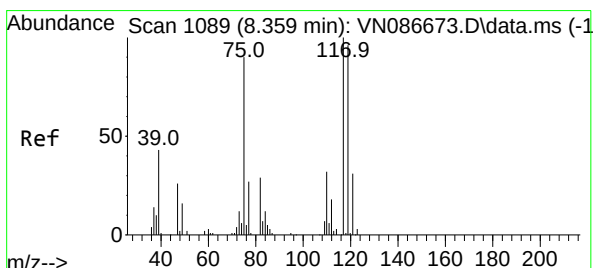
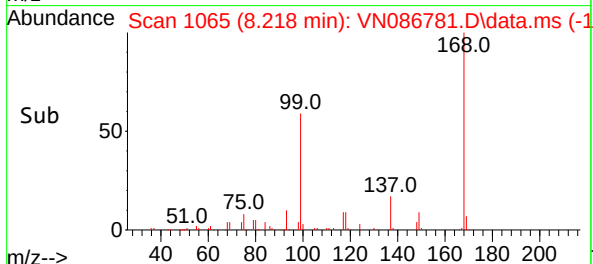
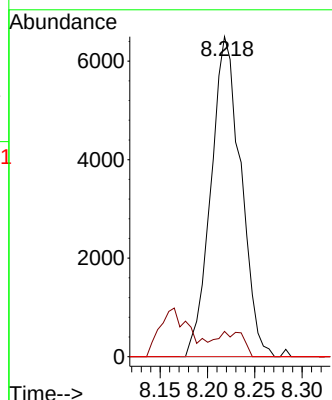
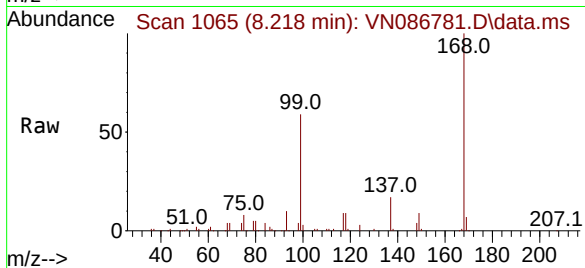
Tgt Ion: 75 Resp: 14264

Ion Ratio Lower Upper

75 100

110 7.1 17.5 52.5#

77 0.0 25.1 37.7#



#38

Carbon Tetrachloride

Concen: 5.865 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.135 min

Lab File: VN086781.D

Acq: 27 May 2025 13:42

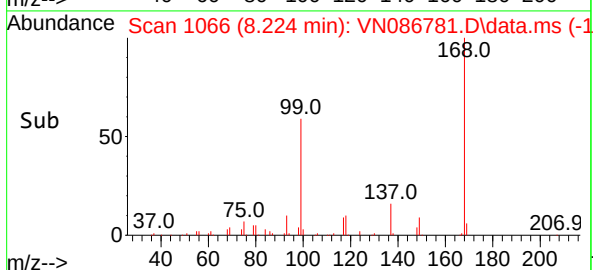
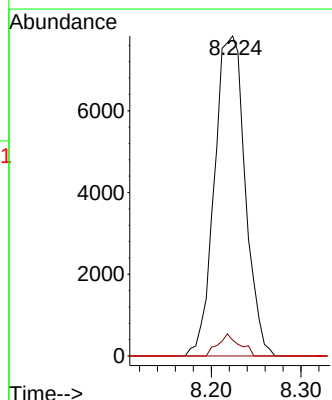
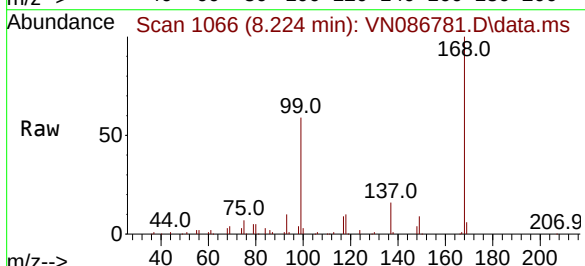
Tgt Ion: 117 Resp: 18567

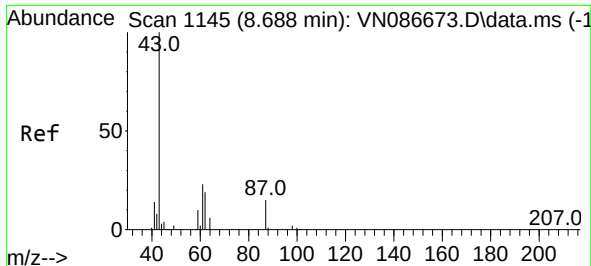
Ion Ratio Lower Upper

117 100

119 5.0 77.0 115.6#

121 0.0 25.0 37.6#





#43

Isopropyl Acetate

Concen: 0.276 ug/l

RT: 8.665 min Scan# 1141

Delta R.T. -0.024 min

Lab File: VN086781.D

Acq: 27 May 2025 13:42

Instrument :

MSVOA_N

ClientSampleId :

IBLK

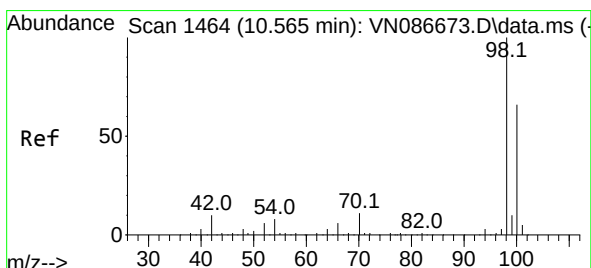
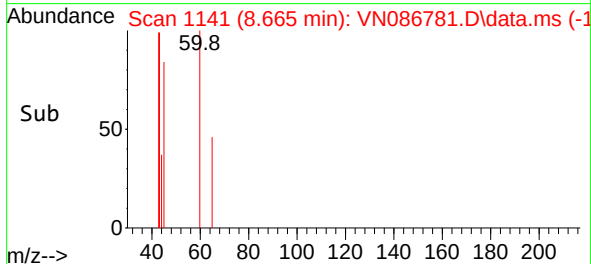
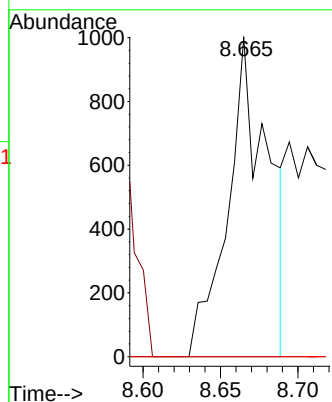
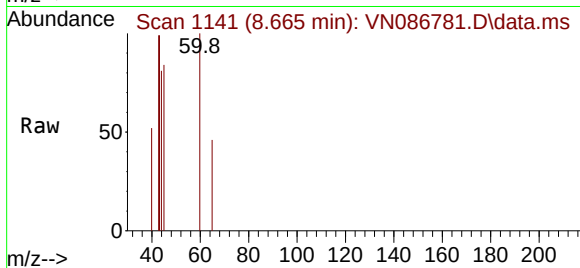
Tgt Ion: 43 Resp: 1798

Ion Ratio Lower Upper

43 100

61 0.0 21.4 32.2#

87 0.0 11.1 16.7#



#50

Toluene-d8

Concen: 50.590 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN086781.D

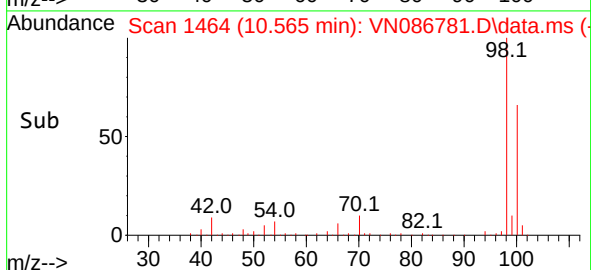
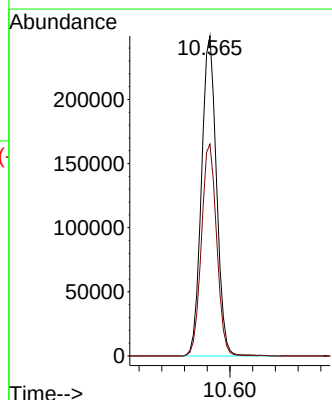
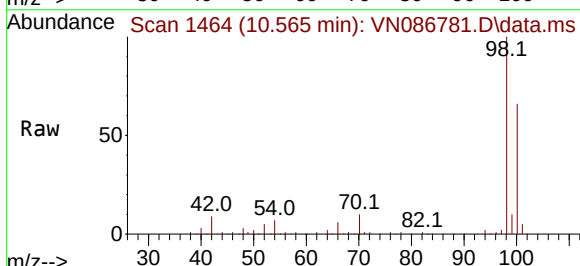
Acq: 27 May 2025 13:42

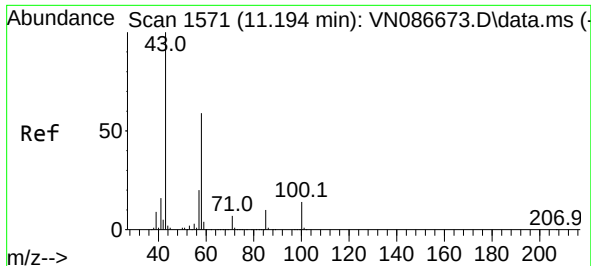
Tgt Ion: 98 Resp: 456640

Ion Ratio Lower Upper

98 100

100 67.3 52.9 79.3

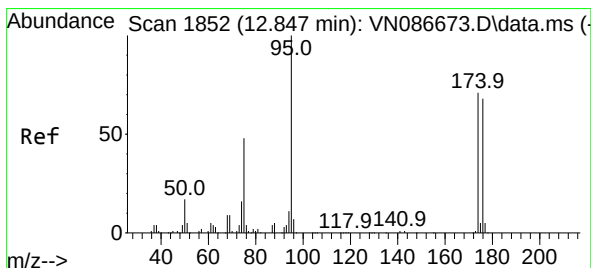
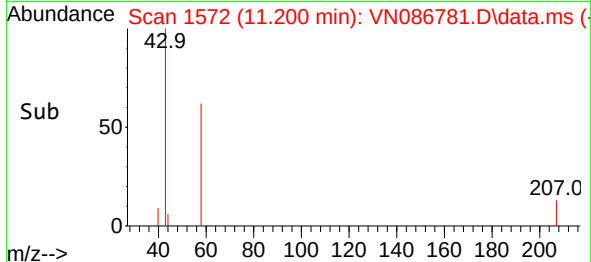
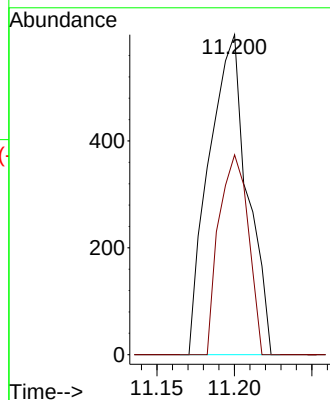
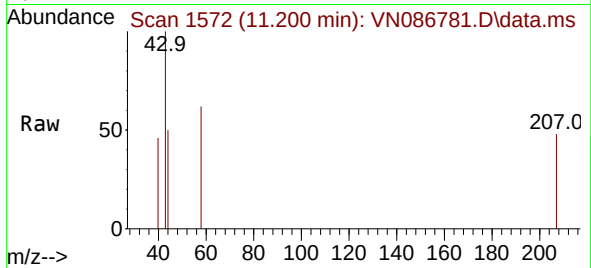




#59
2-Hexanone
Concen: 0.431 ug/l
RT: 11.200 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN086781.D
Acq: 27 May 2025 13:42

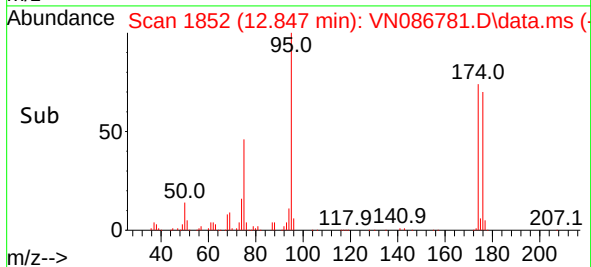
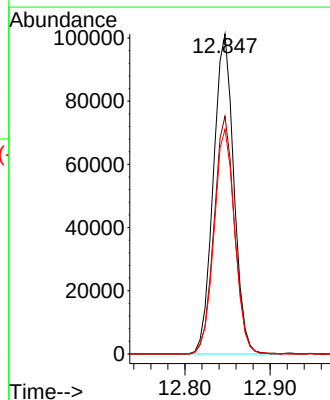
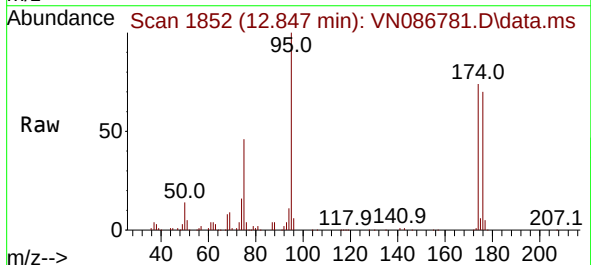
Instrument :
MSVOA_N
ClientSampleId :
IBLK

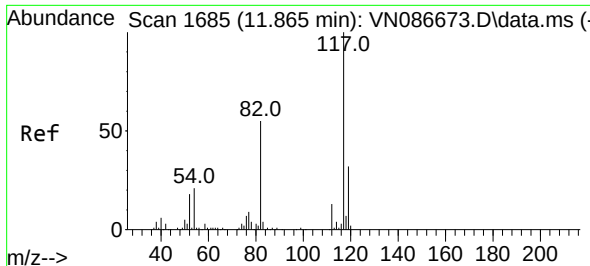
Tgt Ion: 43 Resp: 1033
Ion Ratio Lower Upper
43 100
58 47.6 29.8 89.5



#62
4-Bromofluorobenzene
Concen: 52.947 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN086781.D
Acq: 27 May 2025 13:42

Tgt Ion: 95 Resp: 168750
Ion Ratio Lower Upper
95 100
174 74.3 0.0 145.4
176 70.9 0.0 137.8

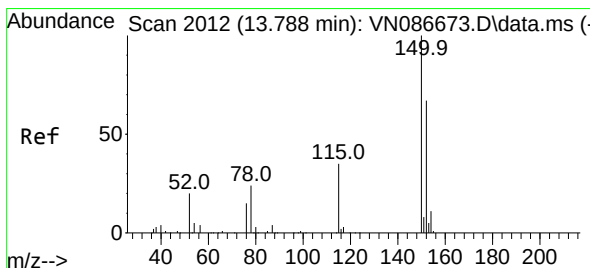
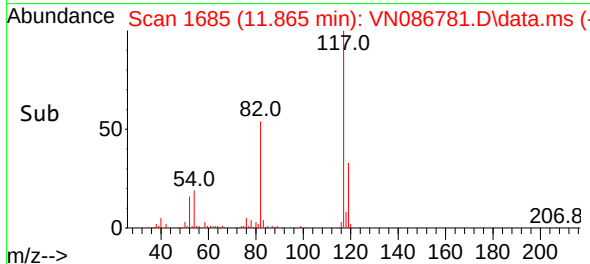
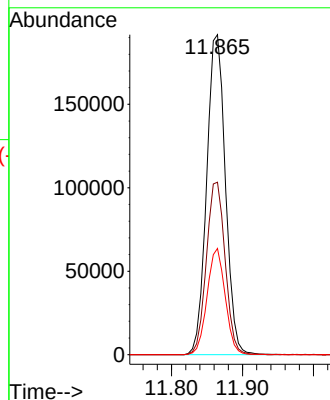
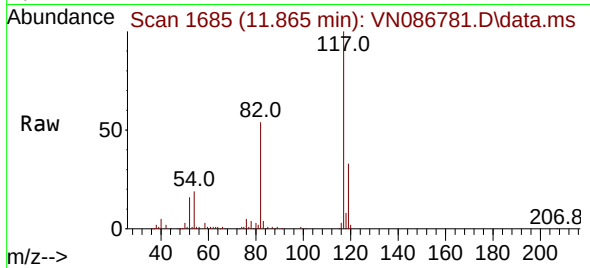




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN086781.D
Acq: 27 May 2025 13:42

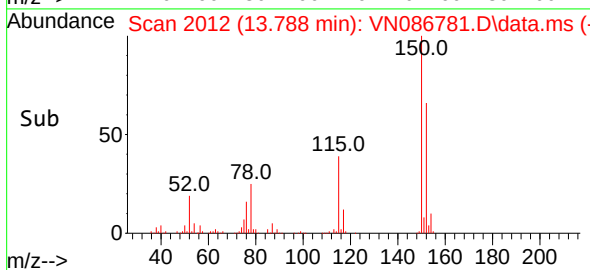
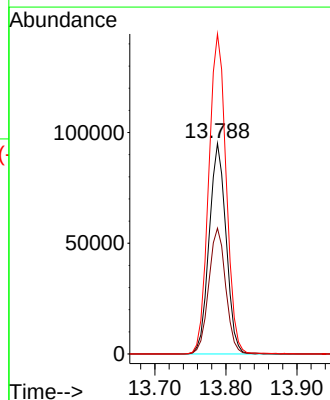
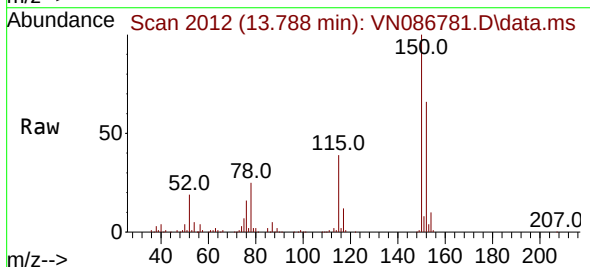
Instrument :
MSVOA_N
ClientSampleId :
IBLK

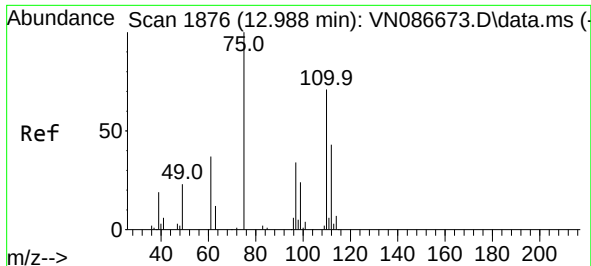
Tgt Ion:117 Resp: 352002
Ion Ratio Lower Upper
117 100
82 53.9 44.2 66.2
119 33.2 25.4 38.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN086781.D
Acq: 27 May 2025 13:42

Tgt Ion:152 Resp: 157490
Ion Ratio Lower Upper
152 100
115 59.7 30.0 90.1
150 156.7 0.0 347.8

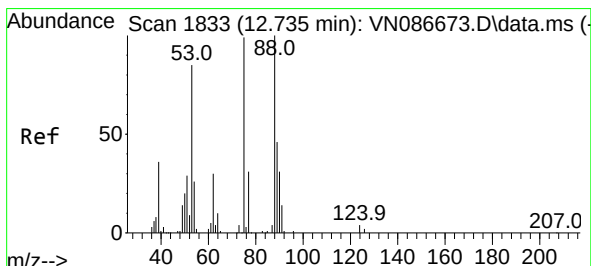
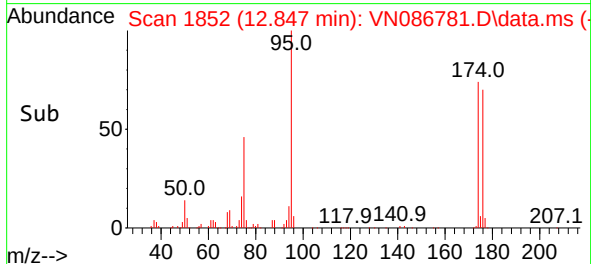
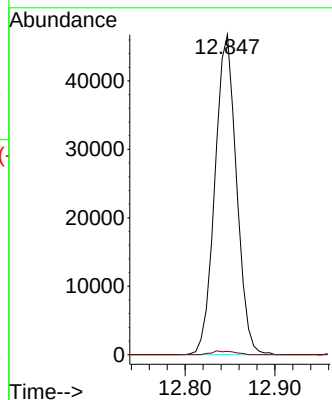
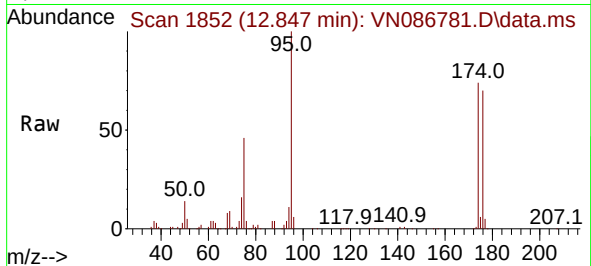




#76
1,2,3-Trichloropropane
Concen: 21.909 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN086781.D
Acq: 27 May 2025 13:42

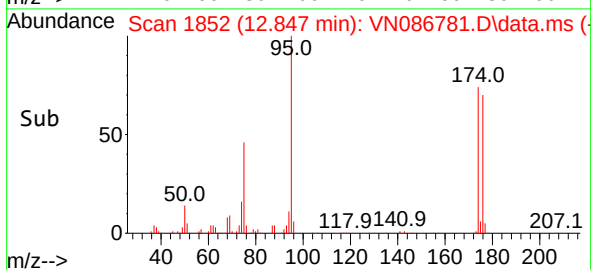
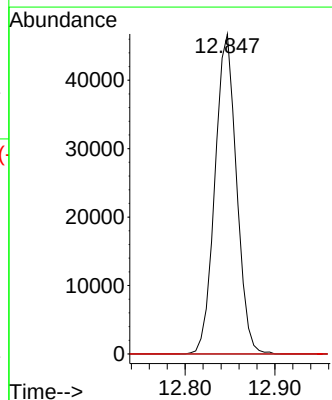
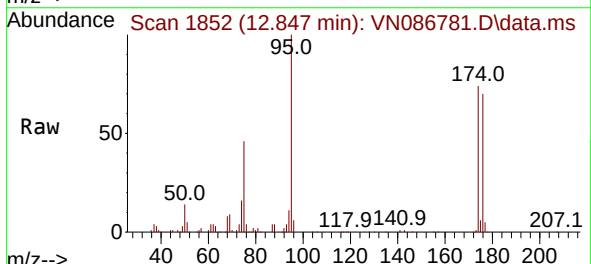
Instrument :
MSVOA_N
ClientSampleId :
IBLK

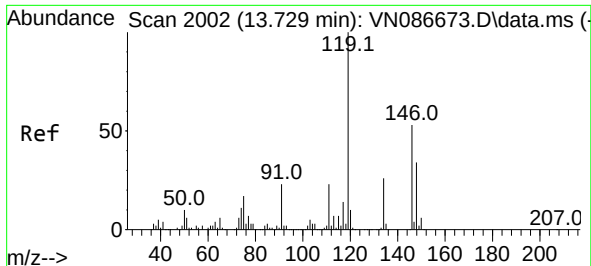
Tgt Ion: 75 Resp: 78035
Ion Ratio Lower Upper
75 100
77 1.2 96.0 288.1#



#81
trans-1,4-Dichloro-2-butene
Concen: 55.291 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086781.D
Acq: 27 May 2025 13:42

Tgt Ion: 75 Resp: 78035
Ion Ratio Lower Upper
75 100
53 0.0 70.4 105.6#
89 0.0 32.4 48.6#





#87

1,3-Dichlorobenzene

Concen: 0.215 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.000 min

Lab File: VN086781.D

Acq: 27 May 2025 13:42

Instrument :

MSVOA_N

ClientSampleId :

IBLK

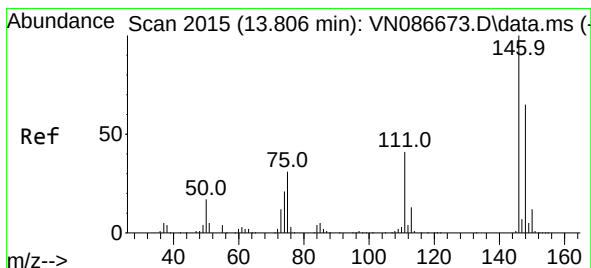
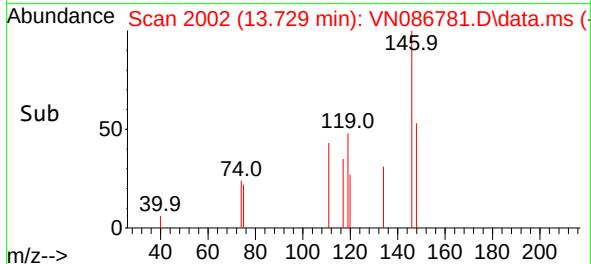
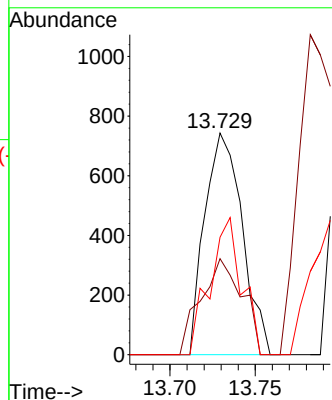
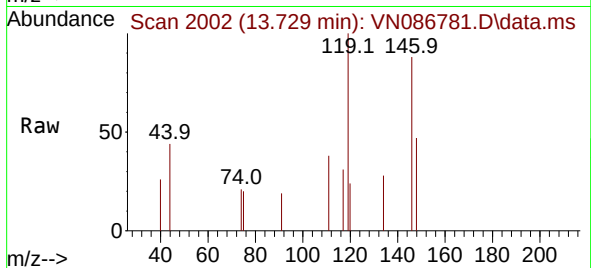
Tgt Ion:146 Resp: 1138

Ion Ratio Lower Upper

146 100

111 47.8 20.9 62.7

148 52.5 31.8 95.4



#88

1,4-Dichlorobenzene

Concen: 0.217 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.076 min

Lab File: VN086781.D

Acq: 27 May 2025 13:42

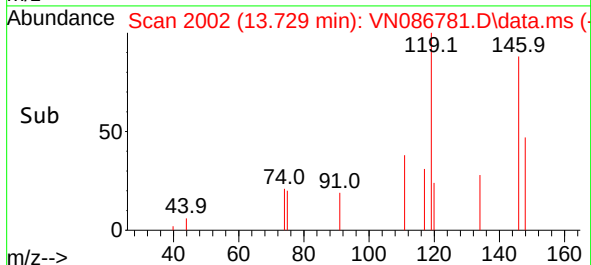
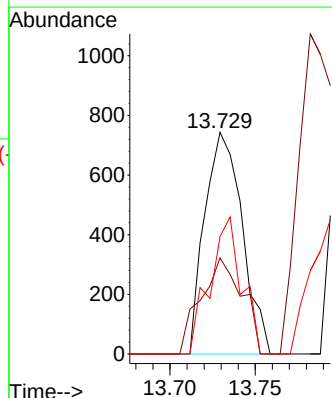
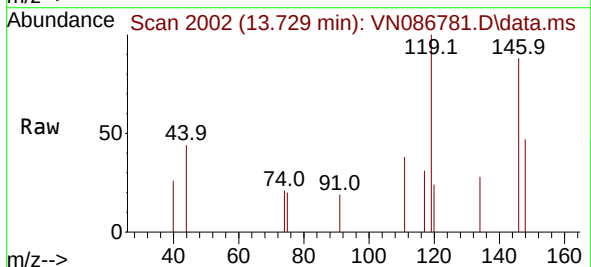
Tgt Ion:146 Resp: 1138

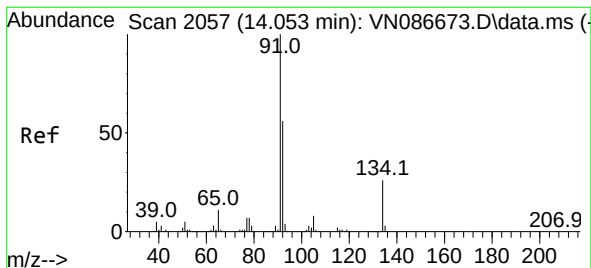
Ion Ratio Lower Upper

146 100

111 47.8 20.6 61.8

148 52.5 32.0 96.0





#89

n-Butylbenzene

Concen: 0.332 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. 0.000 min

Lab File: VN086781.D

Acq: 27 May 2025 13:42

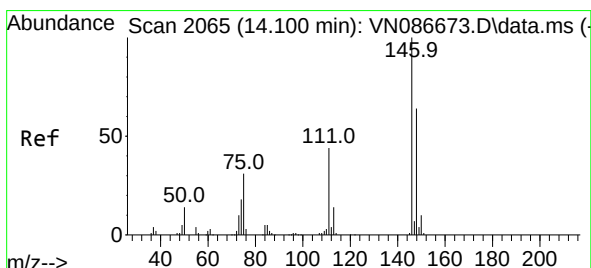
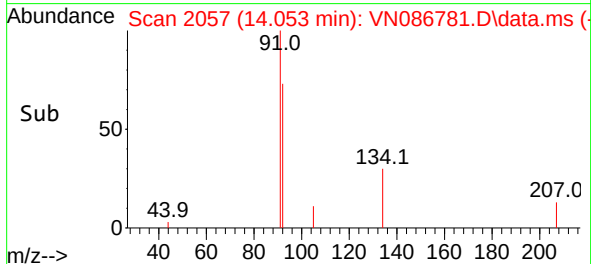
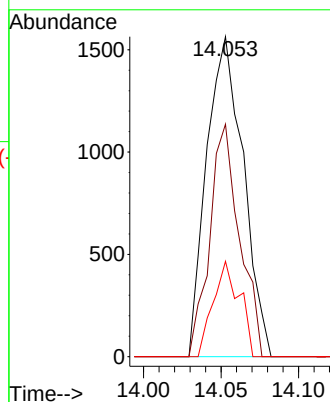
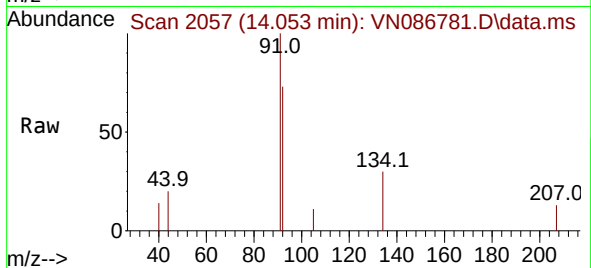
Instrument :

MSVOA_N

ClientSampleId :

IBLK

Tgt Ion: 91	Resp: 2572
Ion Ratio	Lower Upper
91	100
92	59.1 27.4 82.0
134	21.3 12.8 38.4



#91

1,2-Dichlorobenzene

Concen: 0.205 ug/l

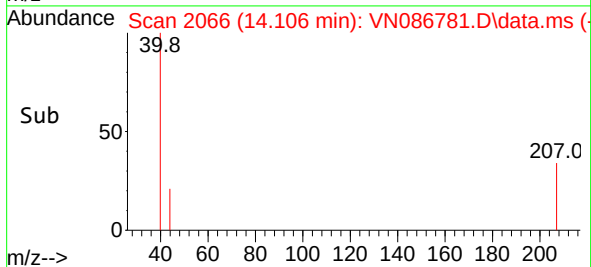
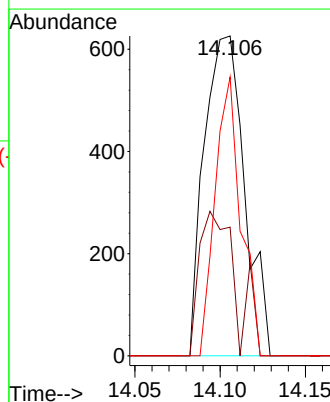
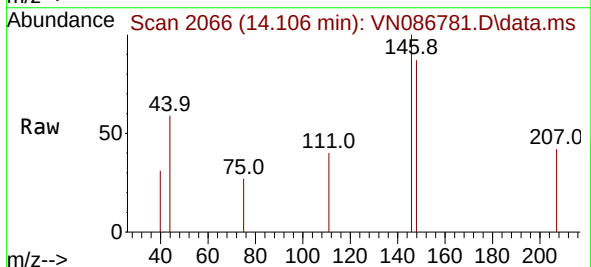
RT: 14.106 min Scan# 2066

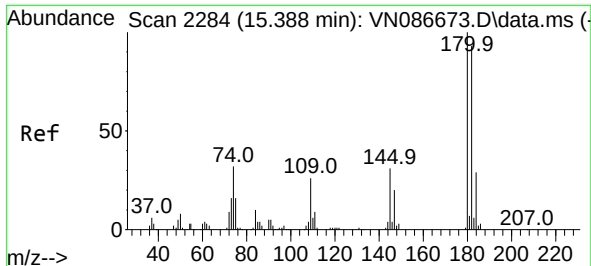
Delta R.T. 0.006 min

Lab File: VN086781.D

Acq: 27 May 2025 13:42

Tgt Ion: 146	Resp: 1033
Ion Ratio	Lower Upper
146	100
111	40.5 21.6 65.0
148	55.5 31.7 95.1

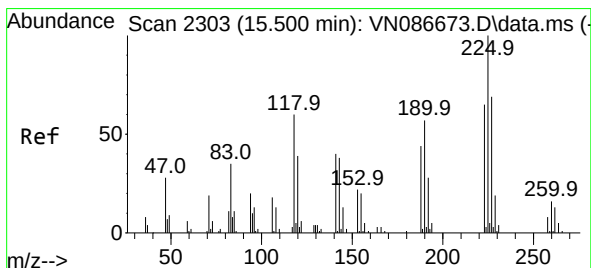
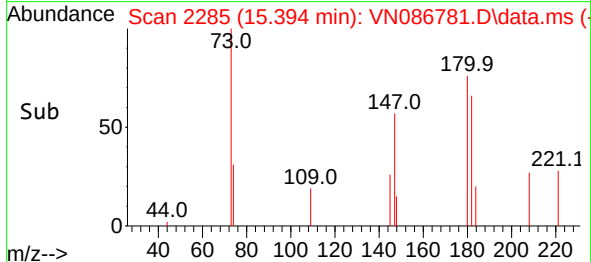
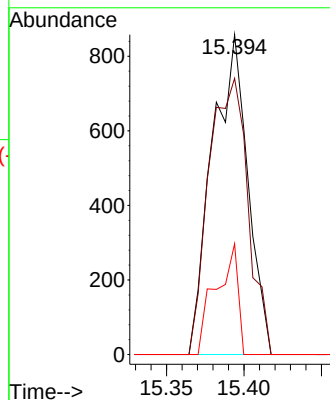
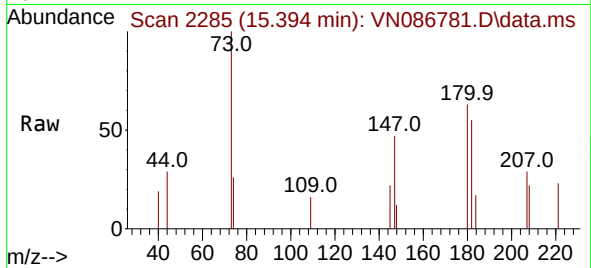




#93
1,2,4-Trichlorobenzene
Concen: 0.645 ug/l
RT: 15.394 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN086781.D
Acq: 27 May 2025 13:42

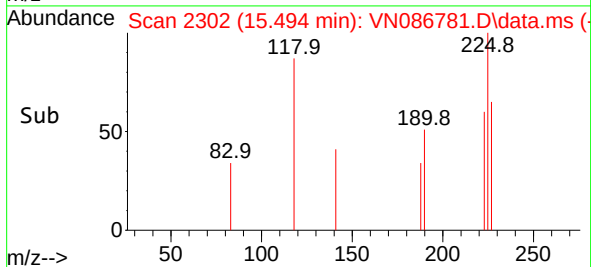
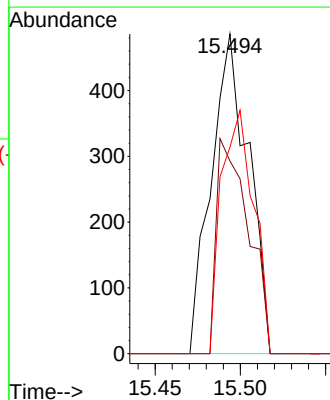
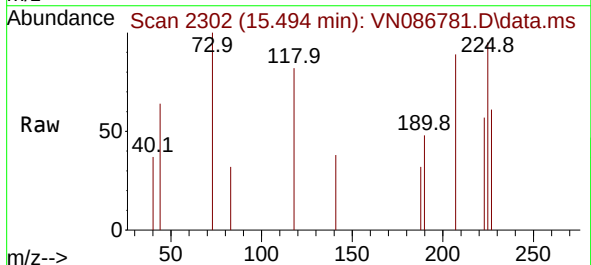
Instrument :
MSVOA_N
ClientSampleId :
IBLK

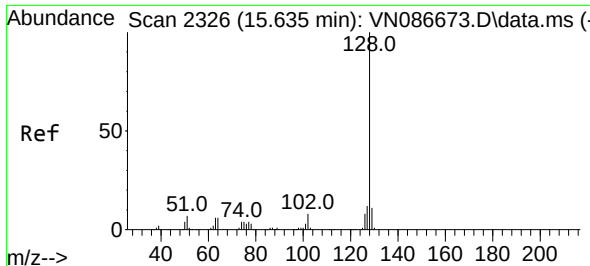
Tgt Ion:180 Resp: 1373
Ion Ratio Lower Upper
180 100
182 94.5 47.1 141.3
145 21.5 15.6 46.8



#94
Hexachlorobutadiene
Concen: 0.841 ug/l
RT: 15.494 min Scan# 2302
Delta R.T. -0.006 min
Lab File: VN086781.D
Acq: 27 May 2025 13:42

Tgt Ion:225 Resp: 742
Ion Ratio Lower Upper
225 100
223 57.4 32.9 98.6
227 66.2 32.4 97.2

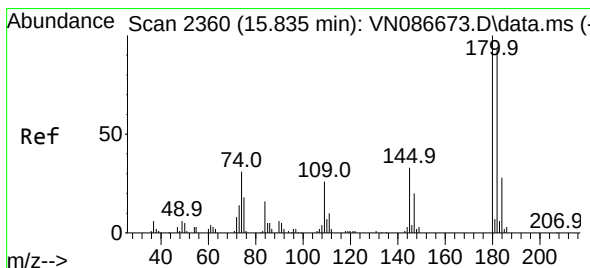
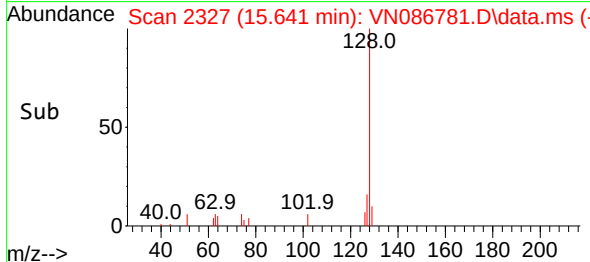
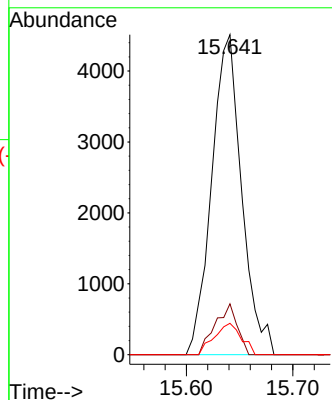
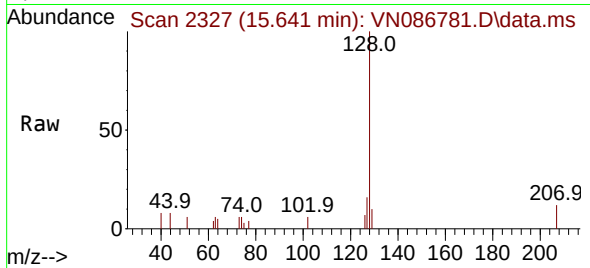




#95
Naphthalene
Concen: 1.194 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. 0.006 min
Lab File: VN086781.D
Acq: 27 May 2025 13:42

Instrument :
MSVOA_N
ClientSampleId :
IBLK

Tgt Ion:128 Resp: 8818
Ion Ratio Lower Upper
128 100
127 11.8 10.1 15.1
129 8.8 8.6 13.0



#96
1,2,3-Trichlorobenzene
Concen: 0.793 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. 0.006 min
Lab File: VN086781.D
Acq: 27 May 2025 13:42

Tgt Ion:180 Resp: 1651
Ion Ratio Lower Upper
180 100
182 90.2 47.0 141.2
145 25.7 16.7 50.1

