

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032425\
 Data File : VN086071.D
 Acq On : 24 Mar 2025 14:48
 Operator : JC\MD
 Sample : IBLK
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

Quant Time: Mar 25 01:24:21 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)

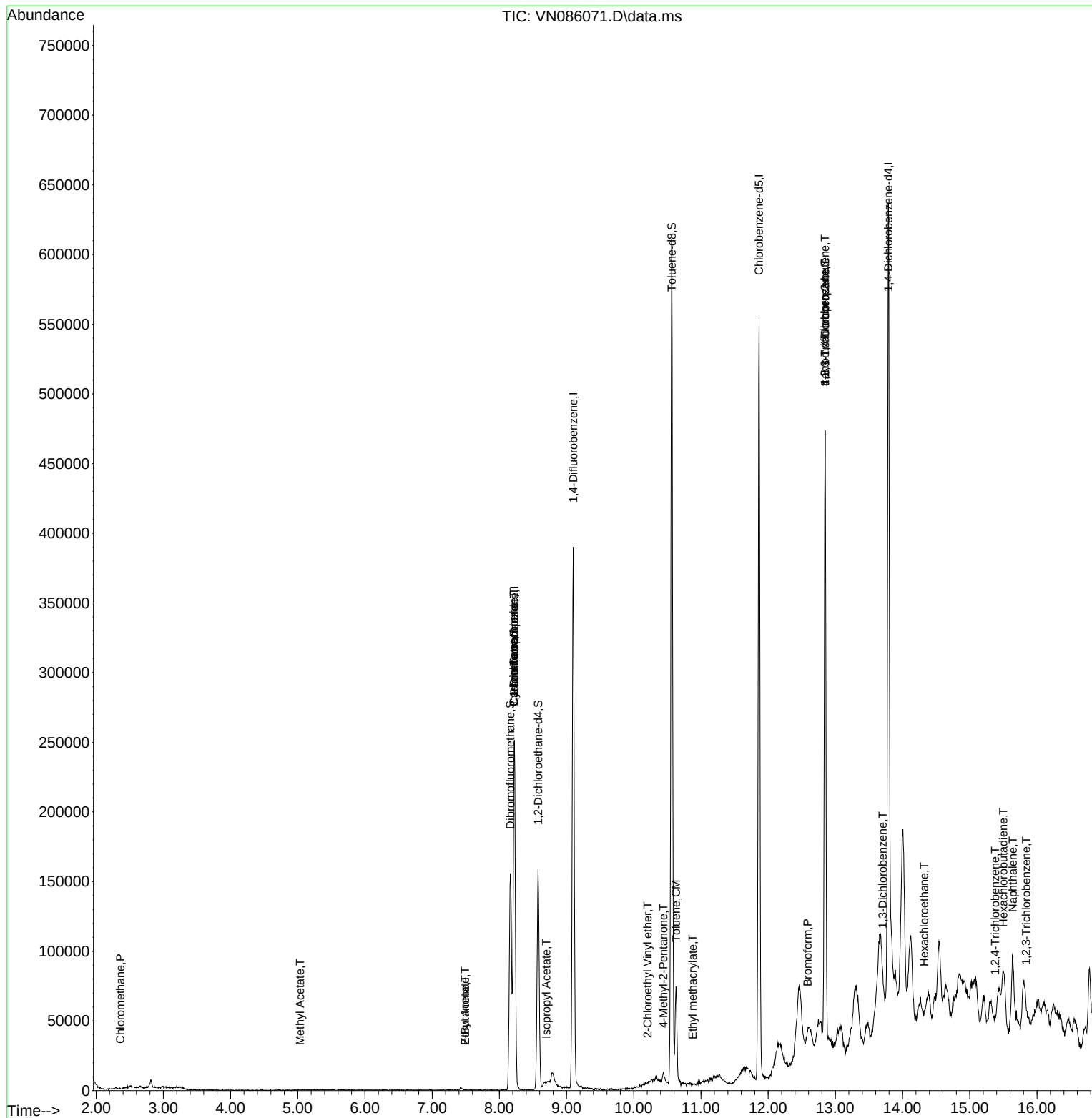
Internal Standards						
1) Pentafluorobenzene	8.224	168	182393	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	333645	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	323430	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	158043	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.576	65	131044	52.468	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 104.940%		
35) Dibromofluoromethane	8.165	113	114035	48.967	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 97.940%		
50) Toluene-d8	10.565	98	429305	50.794	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 101.580%		
62) 4-Bromofluorobenzene	12.847	95	165177	54.799	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	= 109.600%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.359	50	588	0.278	ug/l #	42
18) Methyl Acetate	5.036	43	758	0.402	ug/l #	45
25) 2-Butanone	7.488	43	580	0.527	ug/l #	40
31) Cyclohexane	8.218	56	3478	1.118	ug/l #	16
36) 1,1-Dichloropropene	8.218	75	14221	4.638	ug/l #	51
37) Ethyl Acetate	7.488	43	580	0.224	ug/l #	64
38) Carbon Tetrachloride	8.218	117	19987	4.957	ug/l #	17
43) Isopropyl Acetate	8.700	43	6133	1.094	ug/l #	50
51) 4-Methyl-2-Pentanone	10.441	43	4254	1.721	ug/l #	82
52) Toluene	10.629	92	32670	5.530	ug/l	99
56) Ethyl methacrylate	10.876	69	662	0.420	ug/l #	40
58) 2-Chloroethyl Vinyl ether	10.206	63	56	3.501	ug/l #	43
71) Bromoform	12.588	173	1067	0.464	ug/l #	28
76) 1,2,3-Trichloropropane	12.847	75	81986	23.171	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	81986	61.261	ug/l #	16
87) 1,3-Dichlorobenzene	13.706	146	1720	0.317	ug/l #	41
90) Hexachloroethane	14.323	117	902	0.454	ug/l #	10
93) 1,2,4-Trichlorobenzene	15.376	180	763	0.281	ug/l #	27
94) Hexachlorobutadiene	15.500	225	349	0.222	ug/l #	45
95) Naphthalene	15.641	128	32505	4.140	ug/l #	90
96) 1,2,3-Trichlorobenzene	15.841	180	769	0.299	ug/l #	52

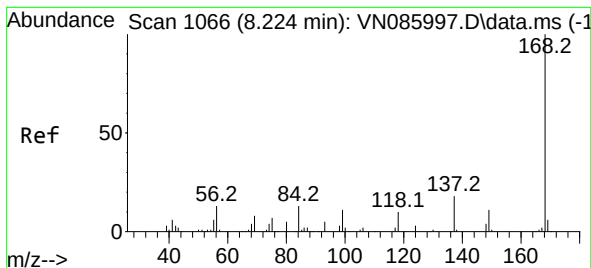
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Mar 19 03:20:56 2025
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.224 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086071.D

Acq: 24 Mar 2025 14:48

Instrument :

MSVOA_N

ClientSampleId :

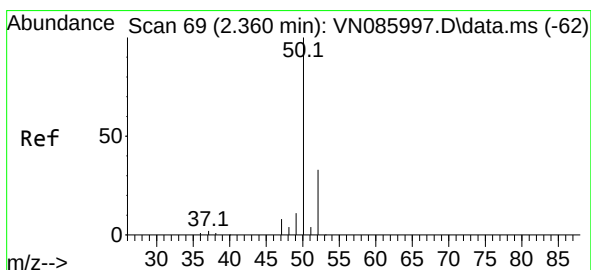
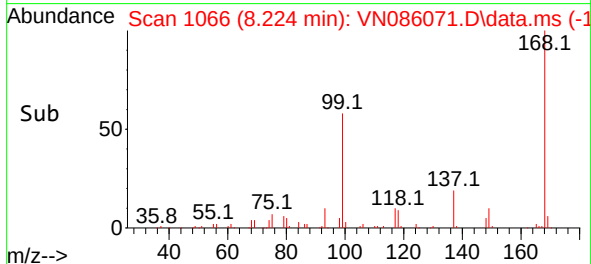
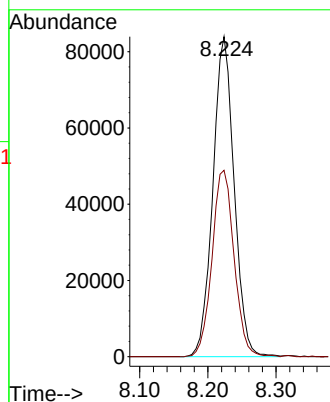
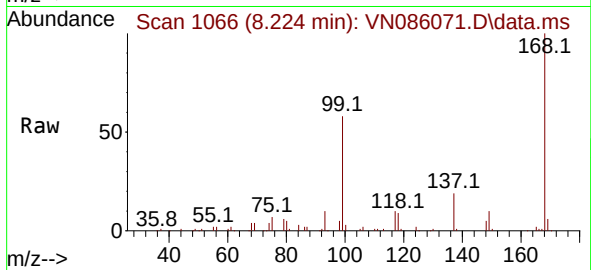
IBLK

Tgt Ion:168 Resp: 182393

Ion Ratio Lower Upper

168 100

99 58.3 49.4 74.2



#3

Chloromethane

Concen: 0.278 ug/l

RT: 2.359 min Scan# 69

Delta R.T. -0.000 min

Lab File: VN086071.D

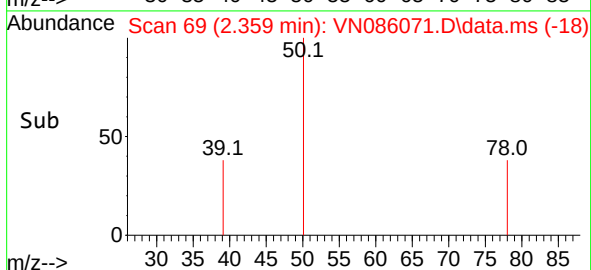
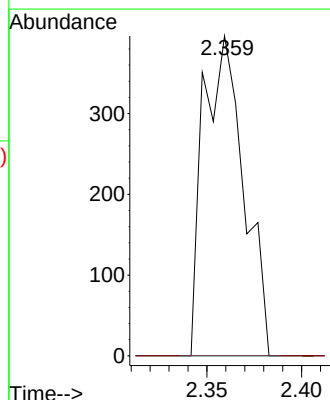
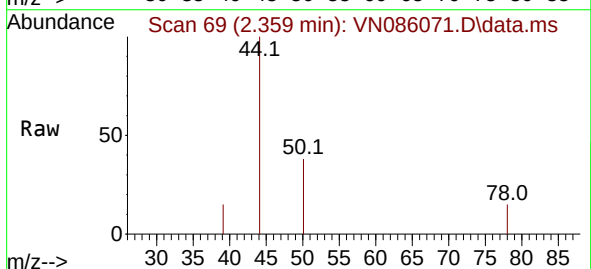
Acq: 24 Mar 2025 14:48

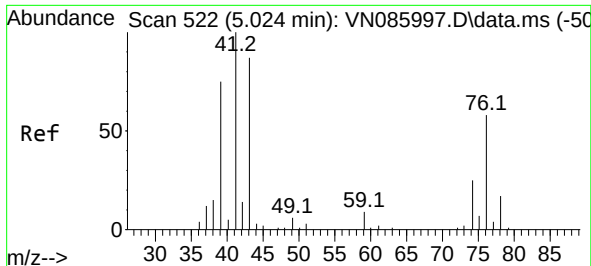
Tgt Ion: 50 Resp: 588

Ion Ratio Lower Upper

50 100

52 0.0 26.0 39.0#

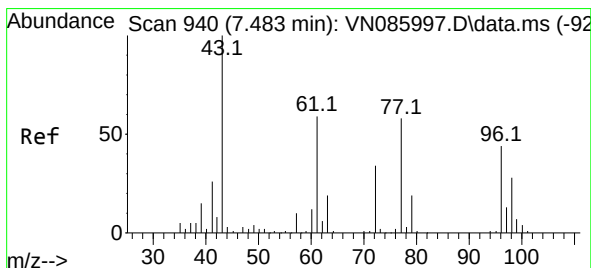
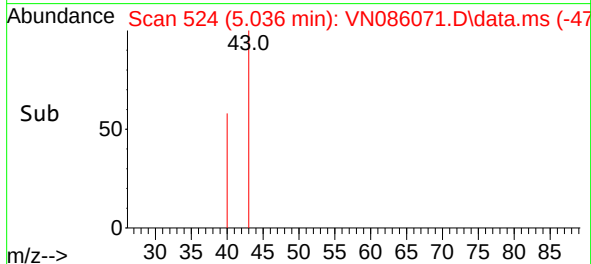
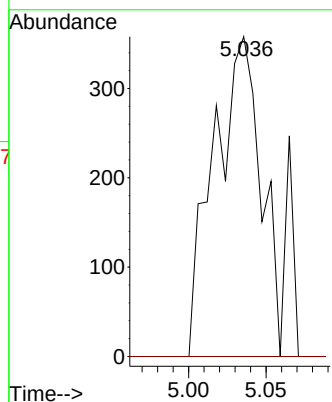
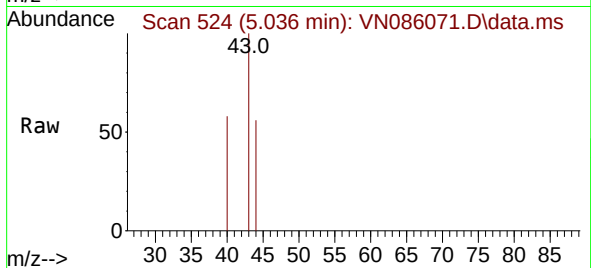




#18
Methyl Acetate
Concen: 0.402 ug/l
RT: 5.036 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN086071.D
Acq: 24 Mar 2025 14:48

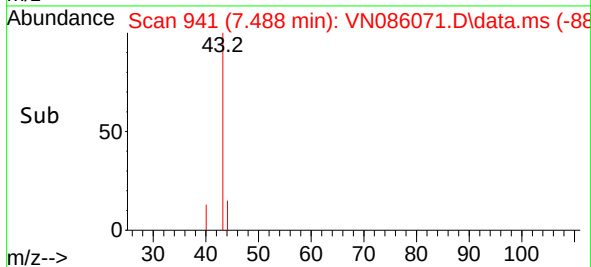
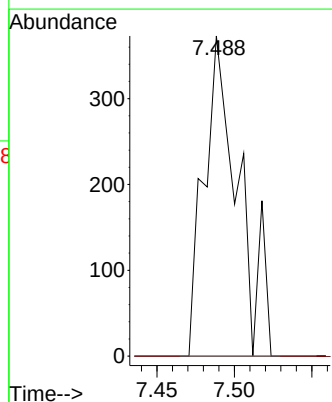
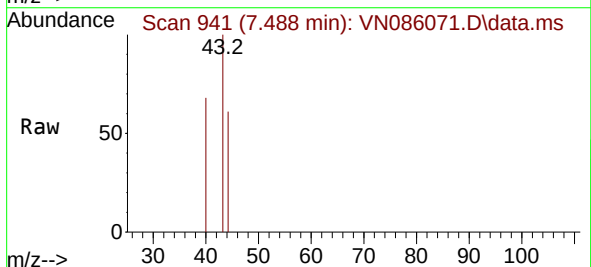
Instrument :
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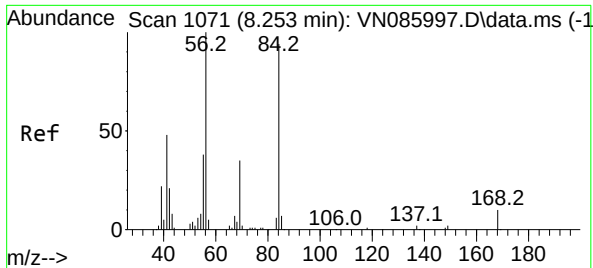
Tgt Ion: 43 Resp: 758
Ion Ratio Lower Upper
43 100
74 0.0 23.9 35.9#



#25
2-Butanone
Concen: 0.527 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN086071.D
Acq: 24 Mar 2025 14:48

Tgt Ion: 43 Resp: 580
Ion Ratio Lower Upper
43 100
72 0.0 27.4 41.0#

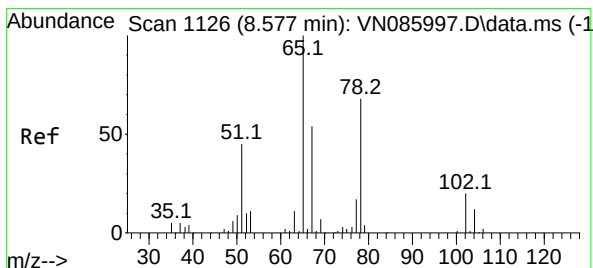
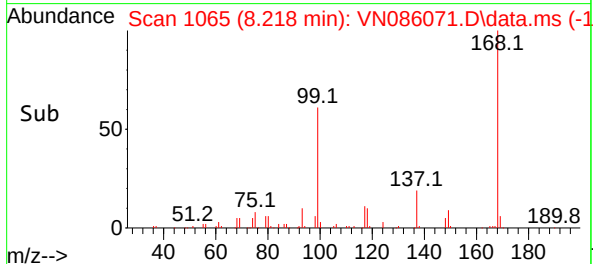
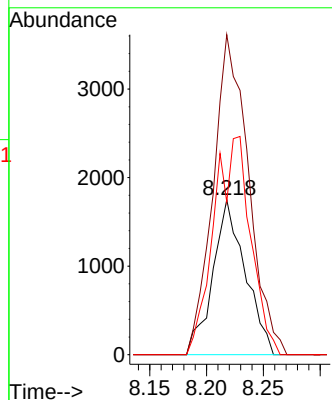
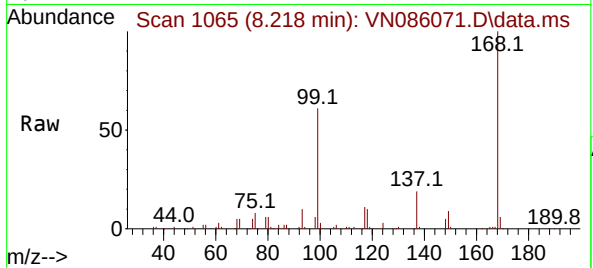




#31
Cyclohexane
Concen: 1.118 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.036 min
Lab File: VN086071.D
Acq: 24 Mar 2025 14:48

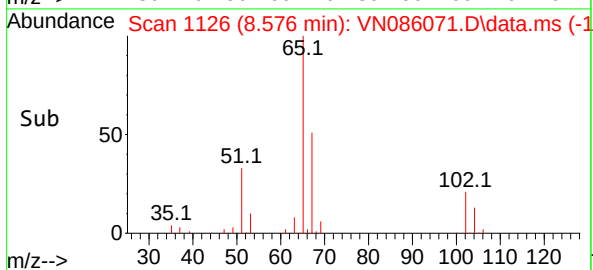
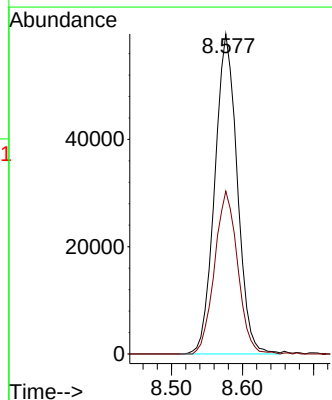
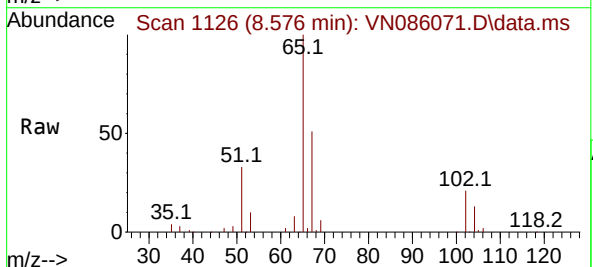
Instrument :
MSVOA_N
ClientSampleId :
IBLK

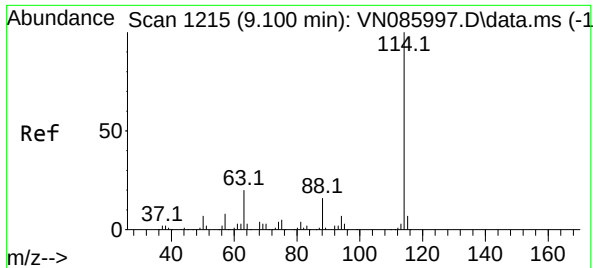
Tgt Ion: 56 Resp: 3478
Ion Ratio Lower Upper
56 100
69 206.4 28.0 42.0#
84 98.5 75.0 112.6



#33
1,2-Dichloroethane-d4
Concen: 52.468 ug/l
RT: 8.576 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN086071.D
Acq: 24 Mar 2025 14:48

Tgt Ion: 65 Resp: 131044
Ion Ratio Lower Upper
65 100
67 52.2 0.0 102.2

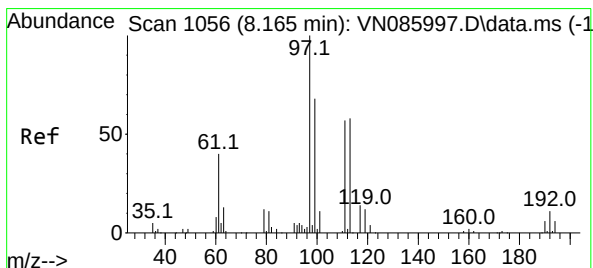
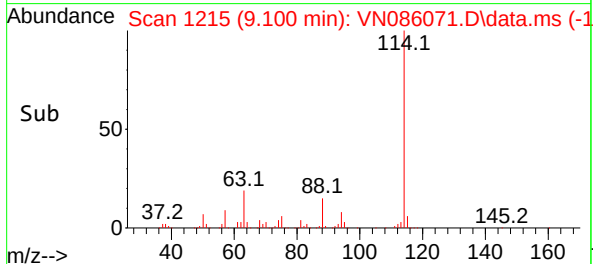
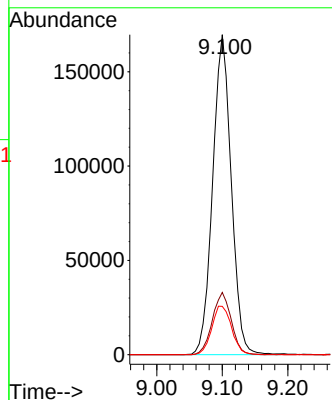
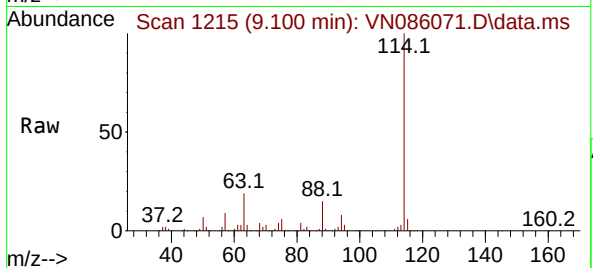




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086071.D
Acq: 24 Mar 2025 14:48

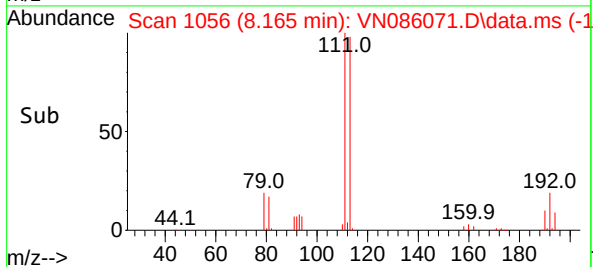
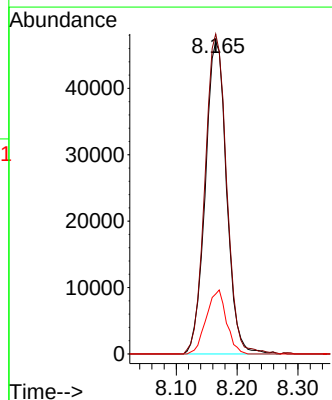
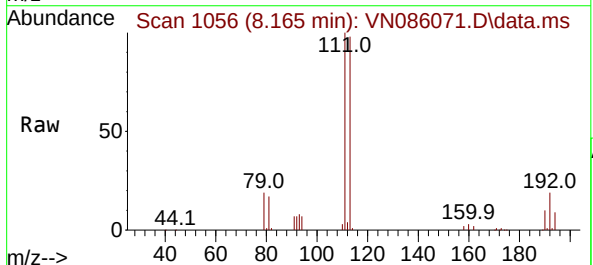
Instrument :
MSVOA_N
ClientSampleId :
IBLK

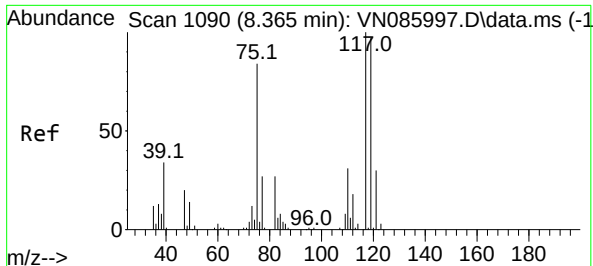
Tgt Ion:114 Resp: 333645
Ion Ratio Lower Upper
114 100
63 19.5 0.0 39.6
88 15.1 0.0 32.6



#35
Dibromofluoromethane
Concen: 48.967 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN086071.D
Acq: 24 Mar 2025 14:48

Tgt Ion:113 Resp: 114035
Ion Ratio Lower Upper
113 100
111 103.8 81.8 122.8
192 19.3 15.9 23.9





#36

1,1-Dichloropropene

Concen: 4.638 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.147 min

Lab File: VN086071.D

Acq: 24 Mar 2025 14:48

Instrument :

MSVOA_N

ClientSampleId :

IBLK

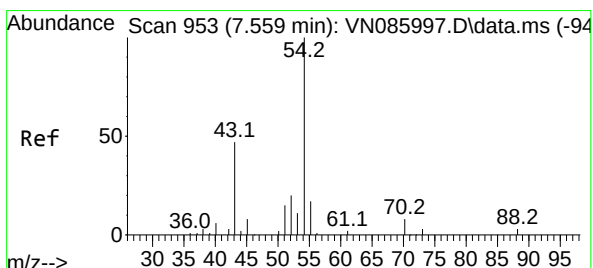
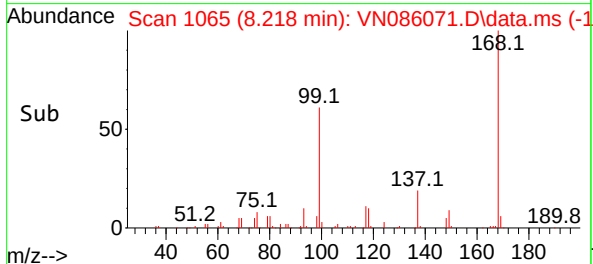
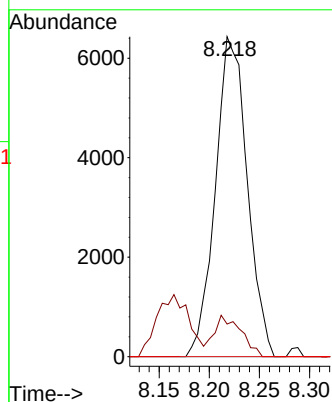
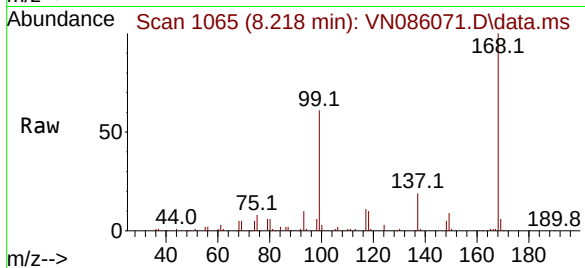
Tgt Ion: 75 Resp: 14221

Ion Ratio Lower Upper

75 100

110 10.9 17.8 53.3#

77 0.0 25.0 37.4#



#37

Ethyl Acetate

Concen: 0.224 ug/l

RT: 7.488 min Scan# 941

Delta R.T. -0.071 min

Lab File: VN086071.D

Acq: 24 Mar 2025 14:48

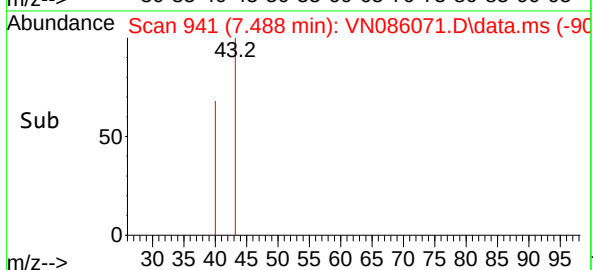
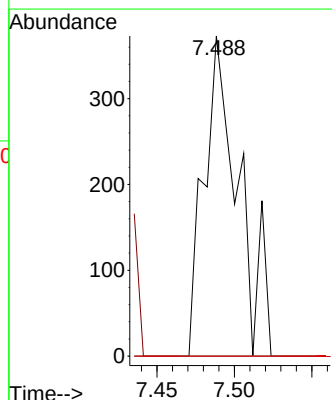
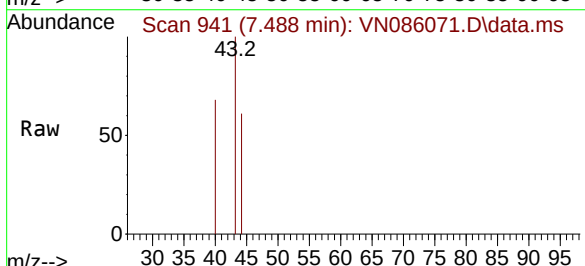
Tgt Ion: 43 Resp: 580

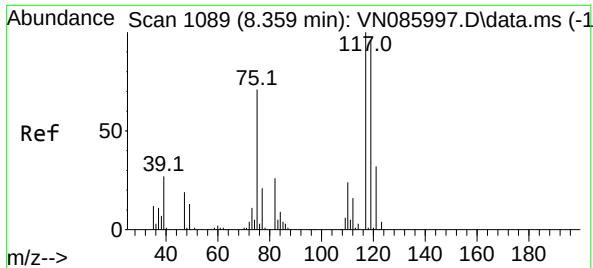
Ion Ratio Lower Upper

43 100

61 0.0 13.0 19.4#

70 0.0 11.0 16.6#

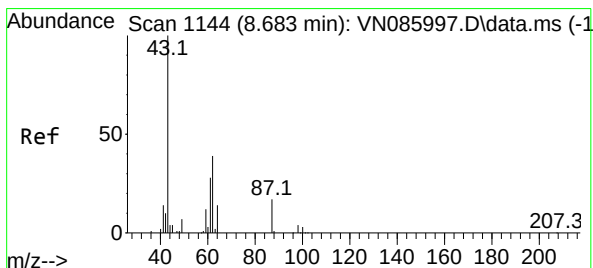
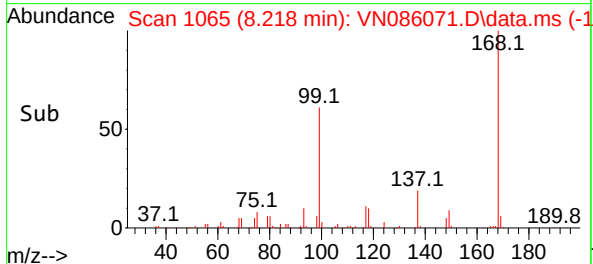
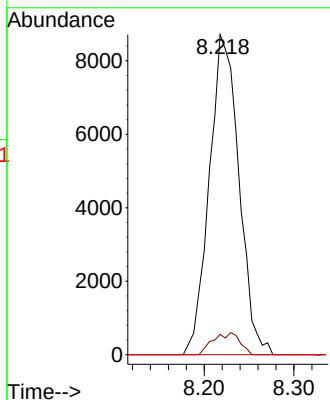
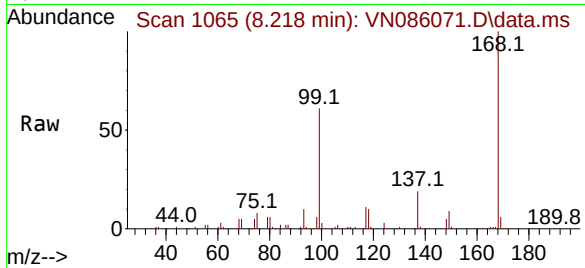




#38
Carbon Tetrachloride
Concen: 4.957 ug/l
RT: 8.218 min Scan# 1105
Delta R.T. -0.141 min
Lab File: VN086071.D
Acq: 24 Mar 2025 14:48

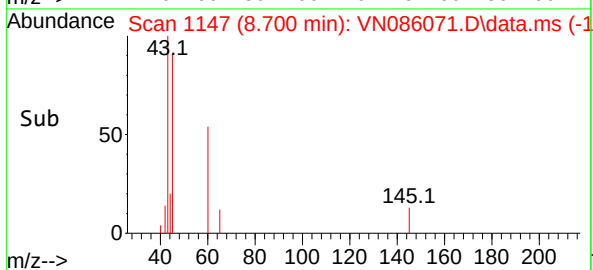
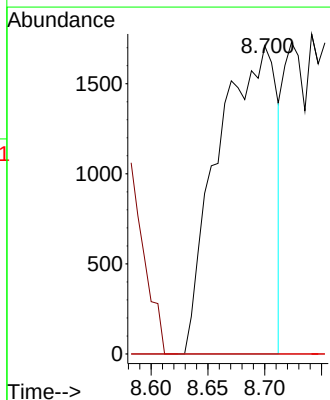
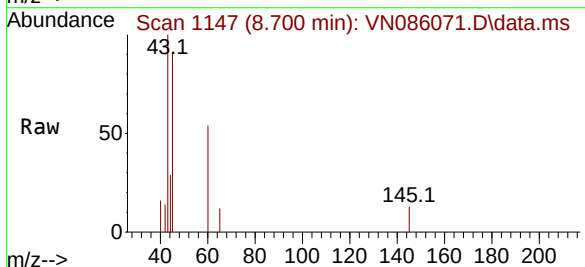
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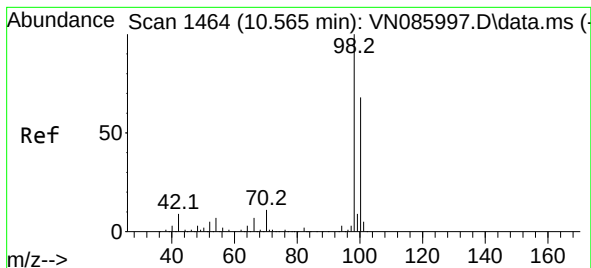
Tgt Ion:117 Resp: 19987
Ion Ratio Lower Upper
117 100
119 6.3 77.0 115.4#
121 0.0 25.6 38.4#



#43
Isopropyl Acetate
Concen: 1.094 ug/l
RT: 8.700 min Scan# 1147
Delta R.T. 0.017 min
Lab File: VN086071.D
Acq: 24 Mar 2025 14:48

Tgt Ion: 43 Resp: 6133
Ion Ratio Lower Upper
43 100
61 0.0 25.0 37.6#
87 0.0 13.0 19.4#

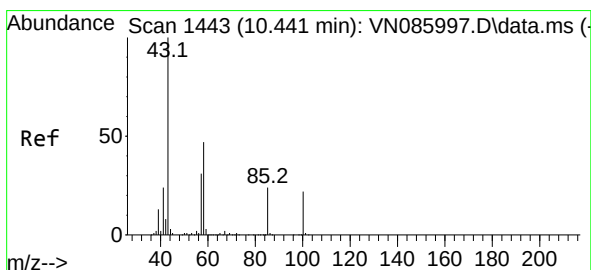
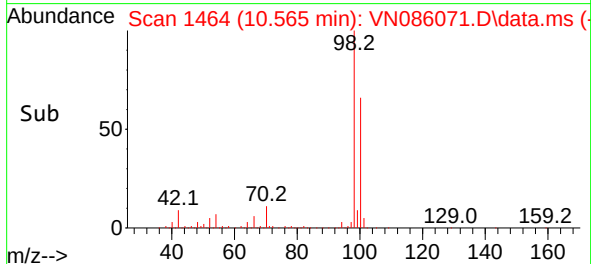
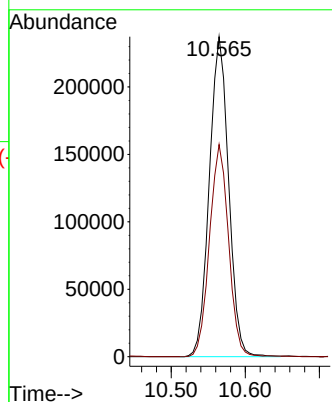
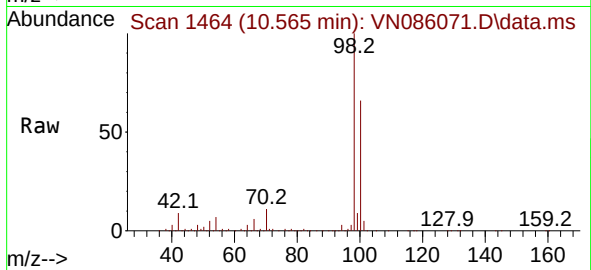




#50
Toluene-d8
Concen: 50.794 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086071.D
Acq: 24 Mar 2025 14:48

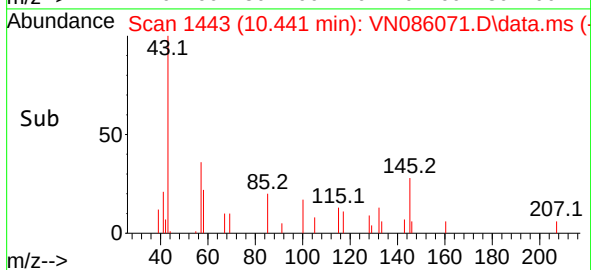
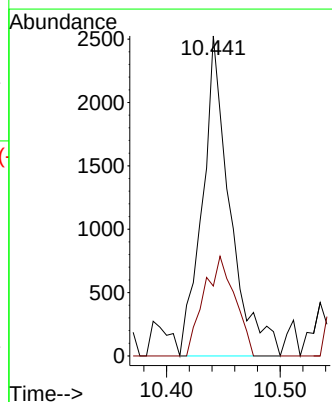
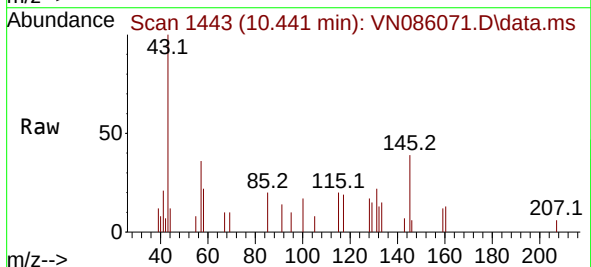
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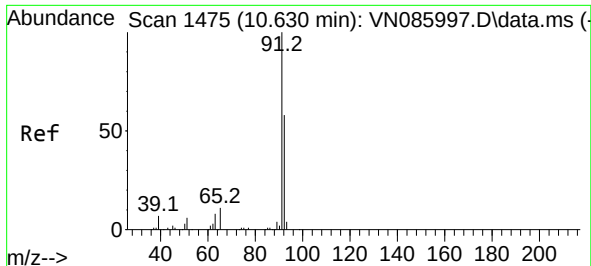
Tgt Ion: 98 Resp: 429305
Ion Ratio Lower Upper
98 100
100 65.4 53.1 79.7



#51
4-Methyl-2-Pentanone
Concen: 1.721 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086071.D
Acq: 24 Mar 2025 14:48

Tgt Ion: 43 Resp: 4254
Ion Ratio Lower Upper
43 100
58 35.0 37.4 56.0#

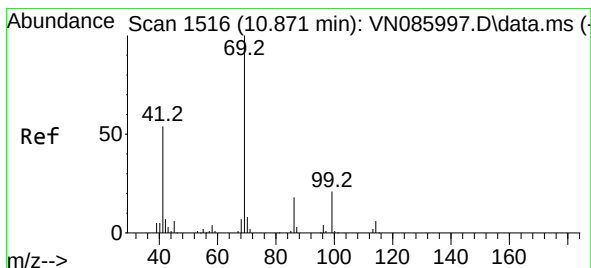
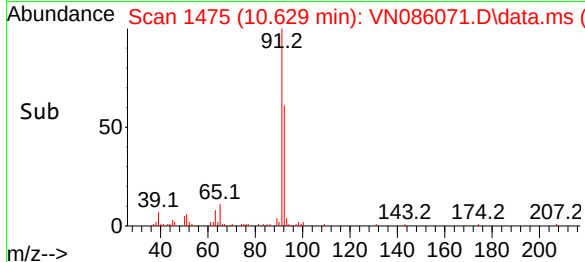
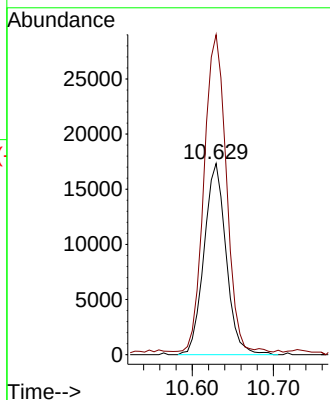
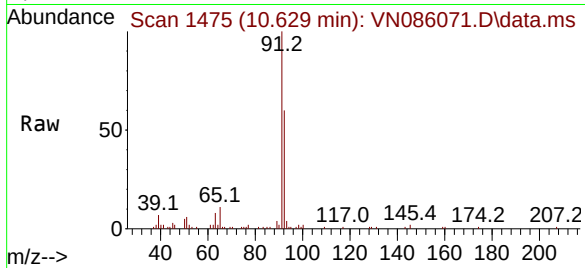




#52
Toluene
Concen: 5.530 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN086071.D
Acq: 24 Mar 2025 14:48

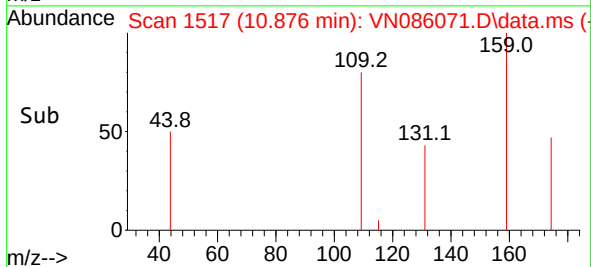
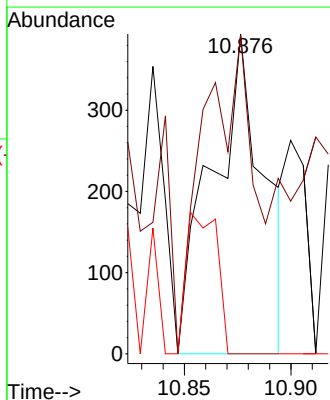
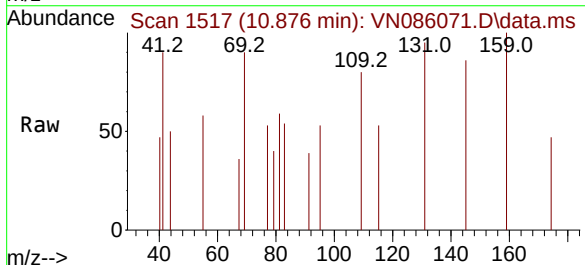
Instrument :
MSVOA_N
ClientSampleId :
IBLK

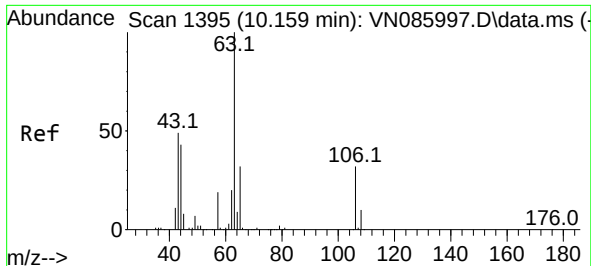
Tgt Ion: 92 Resp: 32670
Ion Ratio Lower Upper
92 100
91 168.8 136.2 204.4



#56
Ethyl methacrylate
Concen: 0.420 ug/l
RT: 10.876 min Scan# 1517
Delta R.T. 0.005 min
Lab File: VN086071.D
Acq: 24 Mar 2025 14:48

Tgt Ion: 69 Resp: 662
Ion Ratio Lower Upper
69 100
41 97.3 41.6 62.4#
39 0.0 21.8 32.8#

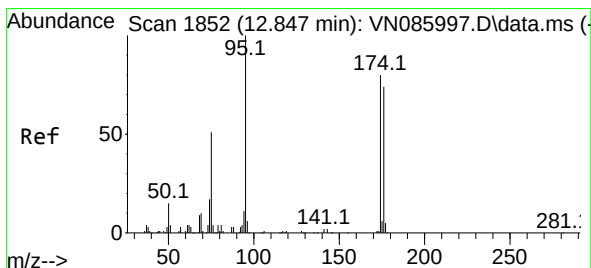
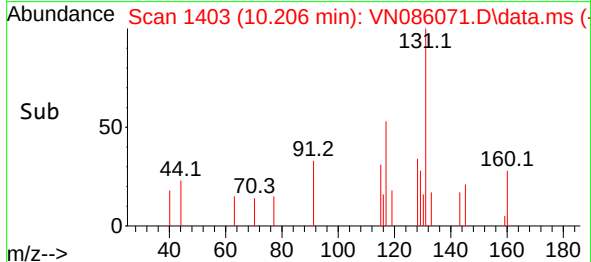
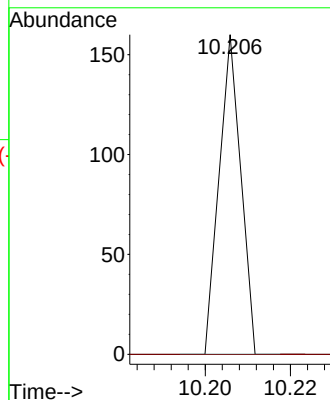
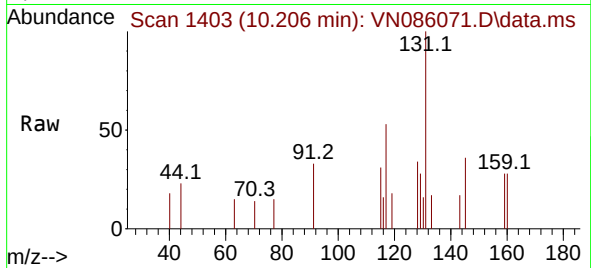




#58
2-Chloroethyl Vinyl ether
Concen: 3.501 ug/l
RT: 10.206 min Scan# 1403
Delta R.T. 0.047 min
Lab File: VN086071.D
Acq: 24 Mar 2025 14:48

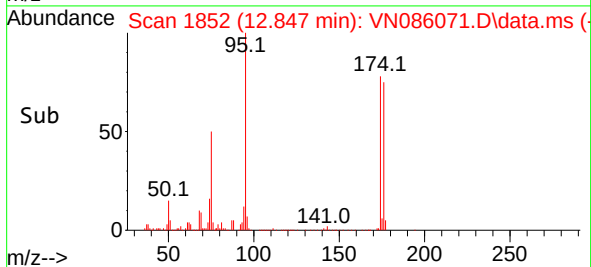
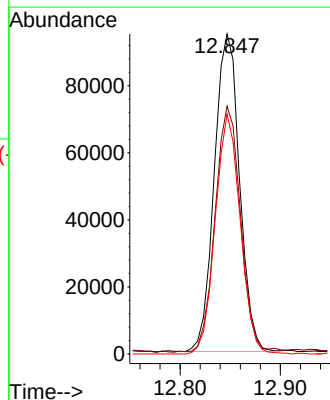
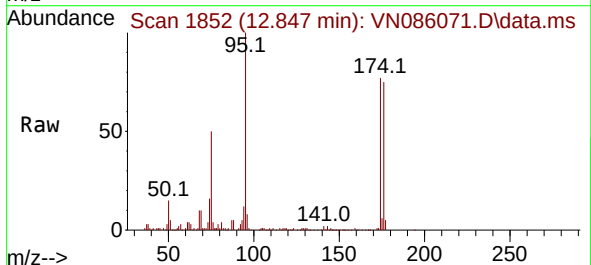
Instrument :
MSVOA_N
ClientSampleId :
IBLK

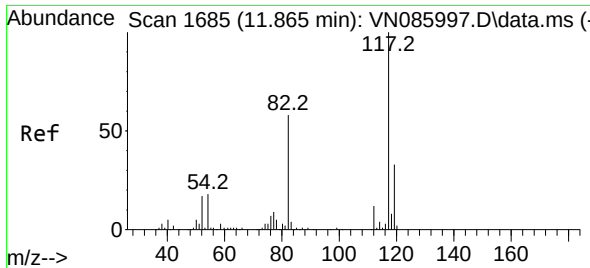
Tgt Ion: 63 Resp: 56
Ion Ratio Lower Upper
63 100
106 0.0 25.0 37.6#



#62
4-Bromofluorobenzene
Concen: 54.799 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086071.D
Acq: 24 Mar 2025 14:48

Tgt Ion: 95 Resp: 165177
Ion Ratio Lower Upper
95 100
174 78.3 0.0 156.8
176 74.7 0.0 152.2

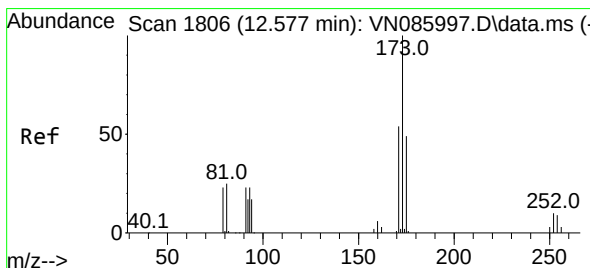
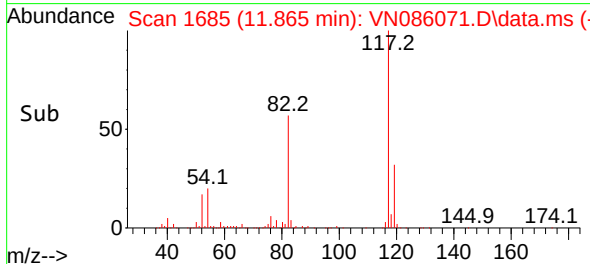
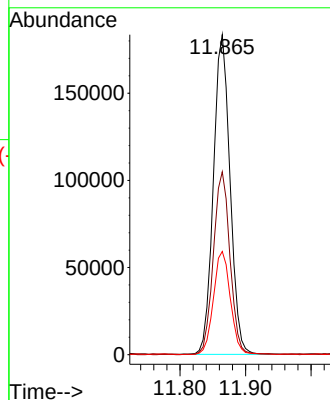
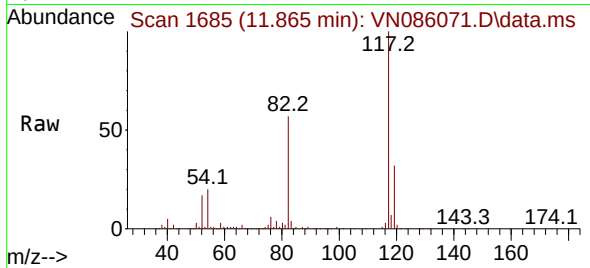




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086071.D
Acq: 24 Mar 2025 14:48

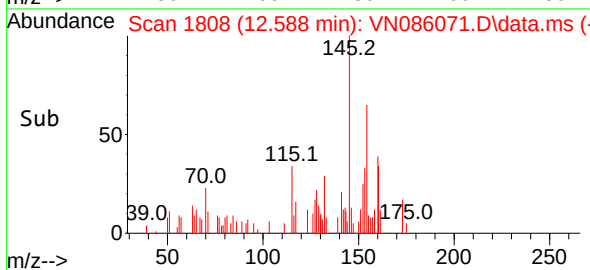
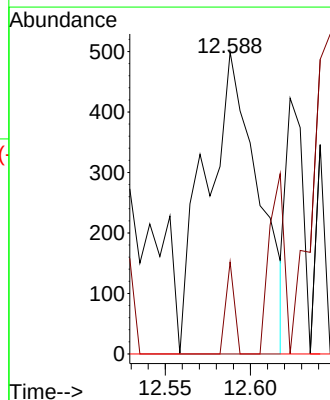
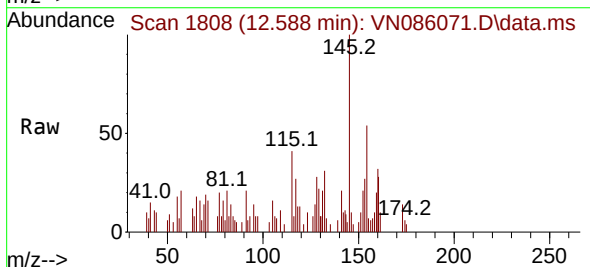
Instrument :
MSVOA_N
ClientSampleId :
IBLK

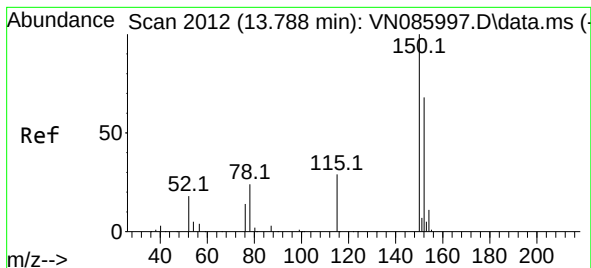
Tgt Ion:117 Resp: 323430
Ion Ratio Lower Upper
117 100
82 57.2 46.7 70.1
119 32.2 26.5 39.7



#71
Bromoform
Concen: 0.464 ug/l
RT: 12.588 min Scan# 1808
Delta R.T. 0.011 min
Lab File: VN086071.D
Acq: 24 Mar 2025 14:48

Tgt Ion:173 Resp: 1067
Ion Ratio Lower Upper
173 100
175 0.0 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: VN086071.D

Acq: 24 Mar 2025 14:48

Instrument :

MSVOA_N

ClientSampleId :

IBLK

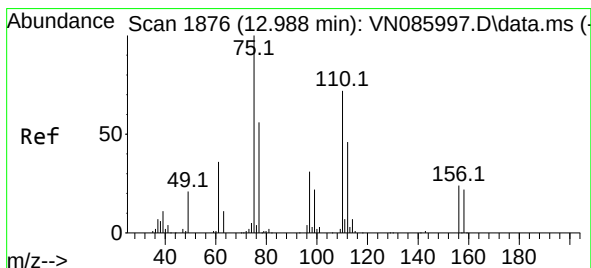
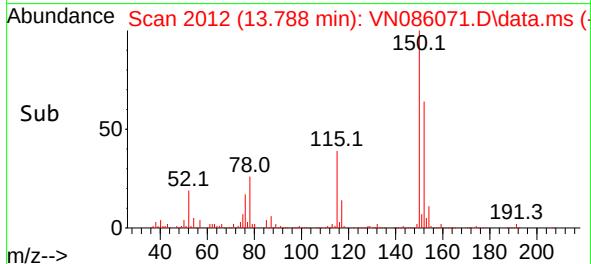
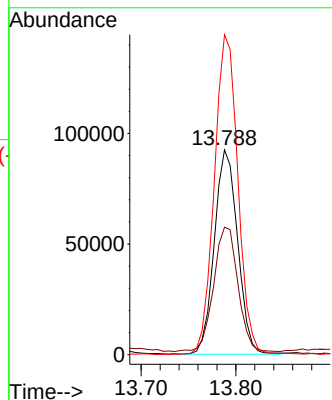
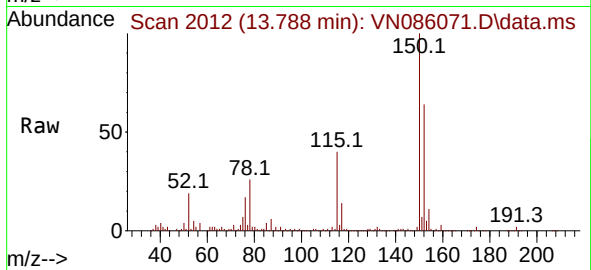
Tgt Ion:152 Resp: 158043

Ion Ratio Lower Upper

152 100

115 63.7 31.1 93.2

150 159.1 0.0 359.6



#76

1,2,3-Trichloropropane

Concen: 23.171 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.141 min

Lab File: VN086071.D

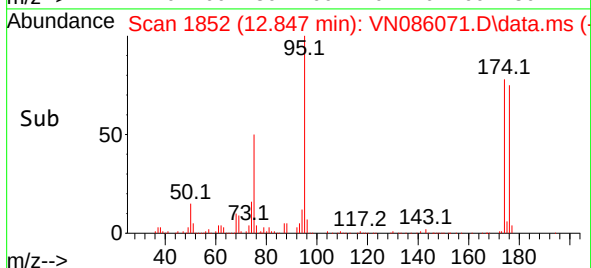
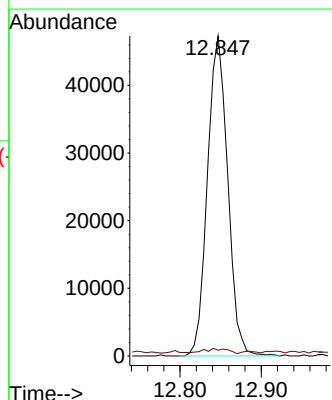
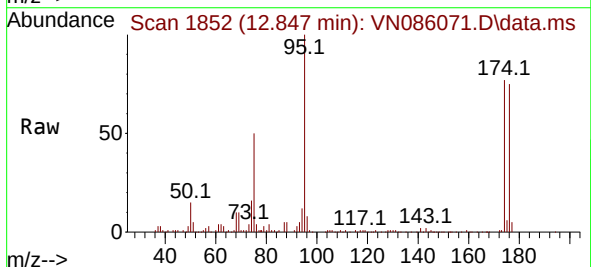
Acq: 24 Mar 2025 14:48

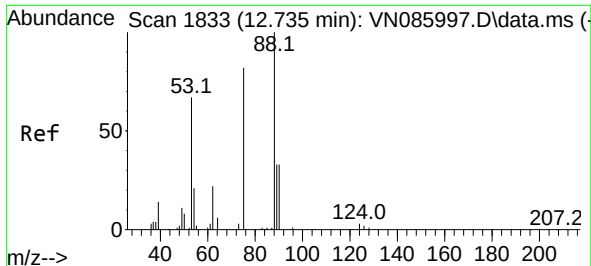
Tgt Ion: 75 Resp: 81986

Ion Ratio Lower Upper

75 100

77 1.9 83.7 251.0#

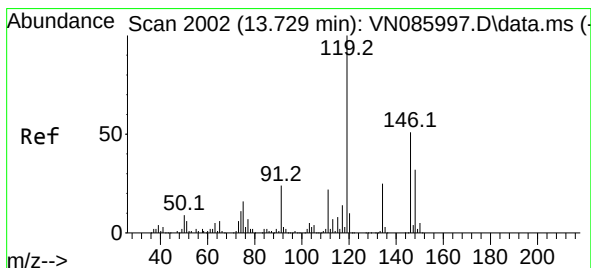
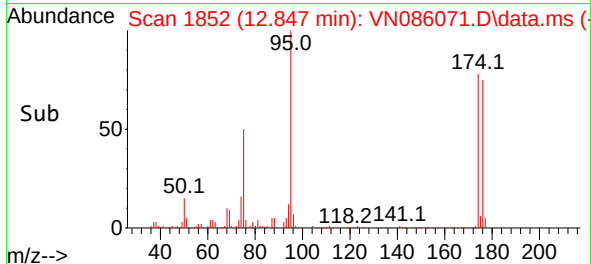
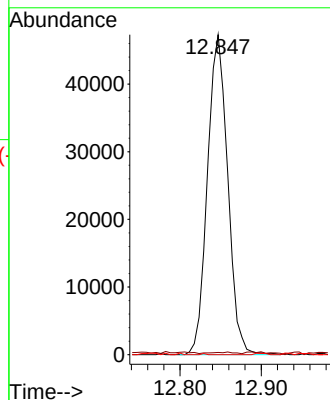
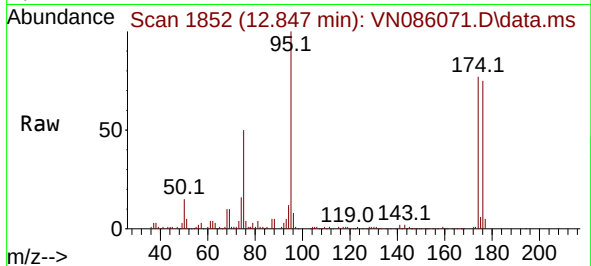




#81
trans-1,4-Dichloro-2-butene
Concen: 61.261 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086071.D
Acq: 24 Mar 2025 14:48

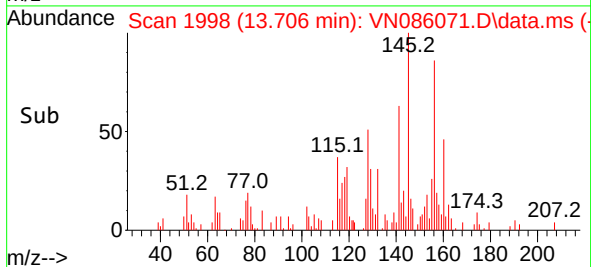
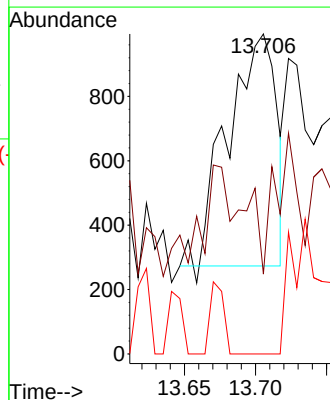
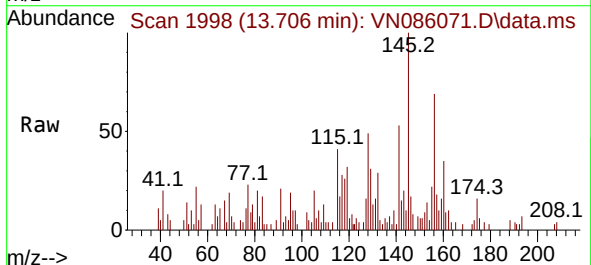
Instrument :
MSVOA_N
ClientSampleId :
IBLK

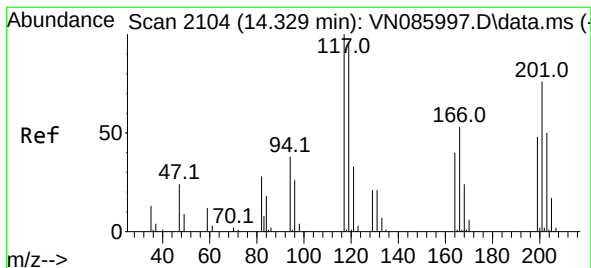
Tgt Ion: 75 Resp: 81986
Ion Ratio Lower Upper
75 100
53 0.6 66.0 99.0#
89 0.0 36.9 55.3#



#87
1,3-Dichlorobenzene
Concen: 0.317 ug/l
RT: 13.706 min Scan# 1998
Delta R.T. -0.024 min
Lab File: VN086071.D
Acq: 24 Mar 2025 14:48

Tgt Ion: 146 Resp: 1720
Ion Ratio Lower Upper
146 100
111 26.7 21.2 63.6
148 0.0 31.8 95.4#





#90

Hexachloroethane

Concen: 0.454 ug/l

RT: 14.323 min Scan# 2104

Delta R.T. -0.006 min

Lab File: VN086071.D

Acq: 24 Mar 2025 14:48

Instrument :

MSVOA_N

ClientSampleId :

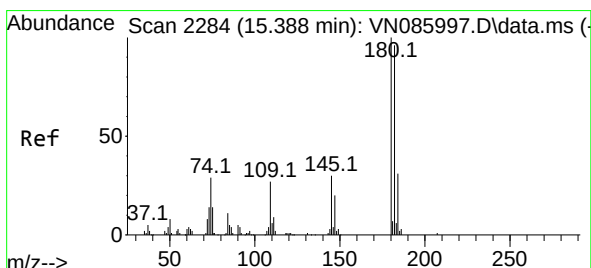
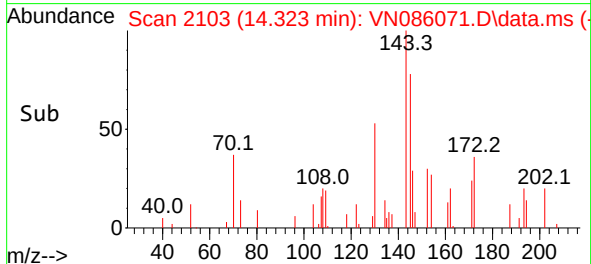
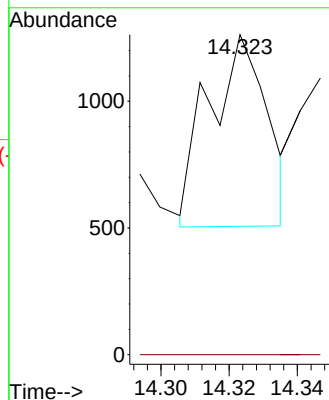
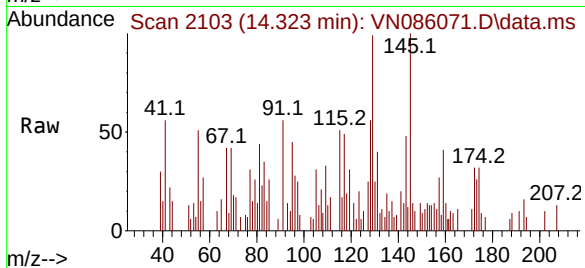
IBLK

Tgt Ion:117 Resp: 902

Ion Ratio Lower Upper

117 100

201 0.0 39.1 117.3#



#93

1,2,4-Trichlorobenzene

Concen: 0.281 ug/l

RT: 15.376 min Scan# 2282

Delta R.T. -0.012 min

Lab File: VN086071.D

Acq: 24 Mar 2025 14:48

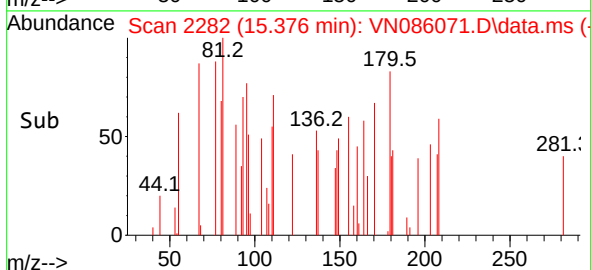
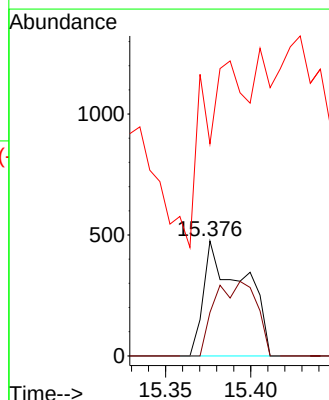
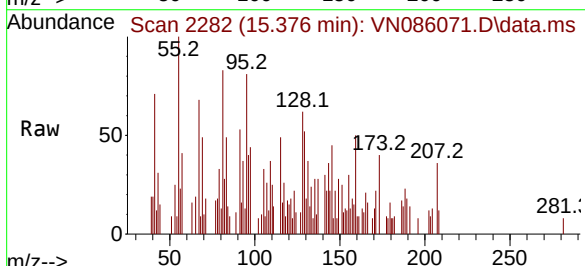
Tgt Ion:180 Resp: 763

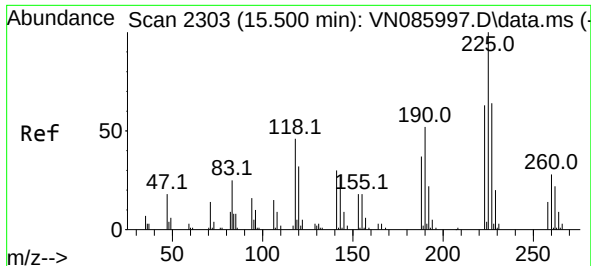
Ion Ratio Lower Upper

180 100

182 68.8 47.0 141.0

145 150.2 15.5 46.5#

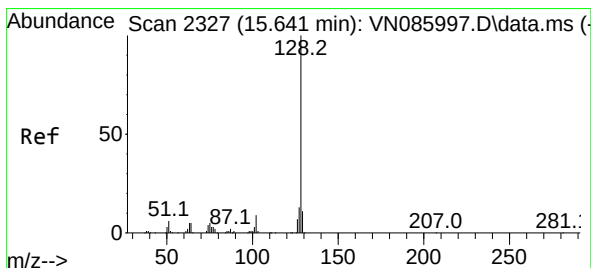
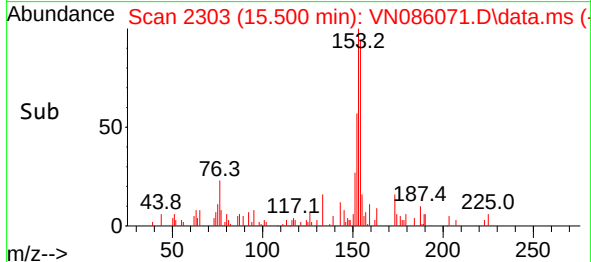
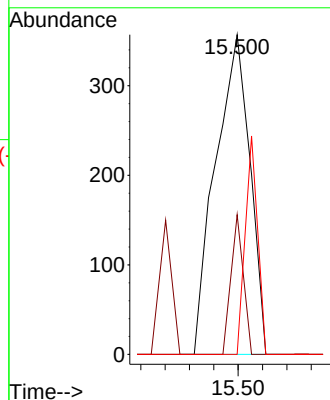
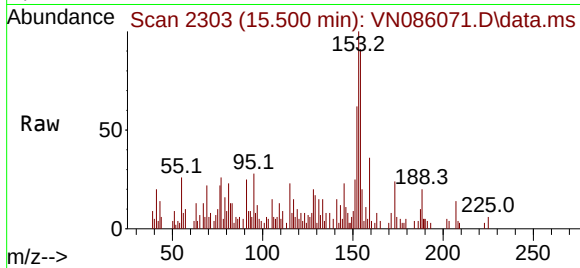




#94
Hexachlorobutadiene
Concen: 0.222 ug/l
RT: 15.500 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN086071.D
Acq: 24 Mar 2025 14:48

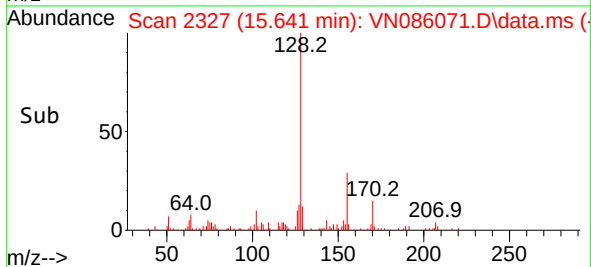
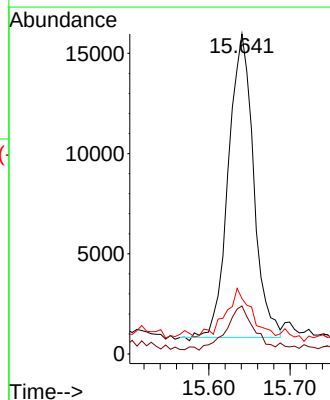
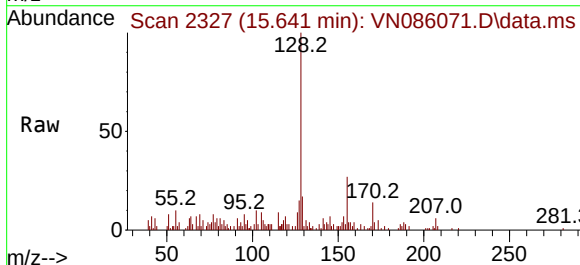
Instrument :
MSVOA_N
ClientSampleId :
IBLK

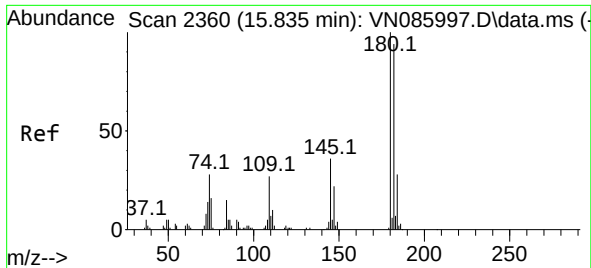
Tgt Ion	Ratio	Lower	Upper
225	100		
223	15.8	31.3	93.9#
227	24.6	32.1	96.3#



#95
Naphthalene
Concen: 4.140 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. -0.000 min
Lab File: VN086071.D
Acq: 24 Mar 2025 14:48

Tgt Ion	Ratio	Lower	Upper
128	100		
127	15.8	10.2	15.4#
129	16.1	9.0	13.6#





#96
 1,2,3-Trichlorobenzene
 Concen: 0.299 ug/l
 RT: 15.841 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VN086071.D
 Acq: 24 Mar 2025 14:48

Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

Tgt Ion:180 Resp: 769
 Ion Ratio Lower Upper
 180 100
 182 98.2 47.5 142.5
 145 134.5 17.7 53.1#

