

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041125\
 Data File : VN086251.D
 Acq On : 11 Apr 2025 15:40
 Operator : JC\MD
 Sample : VN0411WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0411WBL01

Quant Time: Apr 12 01:50:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 01:21:52 2025
 Response via : Initial Calibration

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

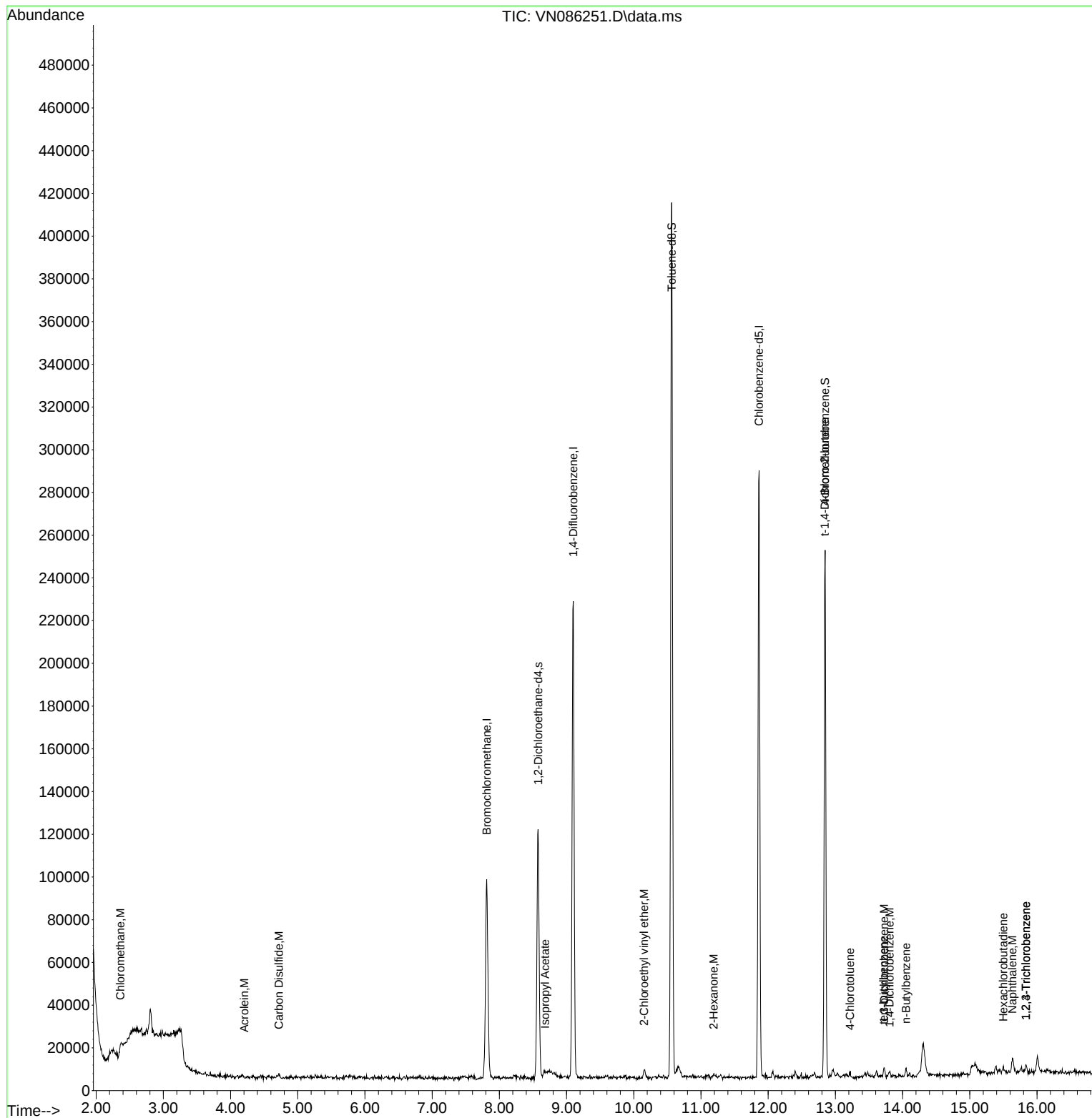
Internal Standards						
1) Bromochloromethane	7.812	128	32111	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	197127	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	168421	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	96086	30.679	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	102.267%
60) 4-Bromofluorobenzene	12.847	95	96020	28.635	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	95.467%
63) Toluene-d8	10.565	98	293128	30.829	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	102.767%
Target Compounds						
						Qvalue
3) Chloromethane	2.359	50	1486	0.418	ug/l	100
13) Acrolein	4.206	56	225	0.573	ug/l	91
16) Carbon Disulfide	4.718	76	3090	0.441	ug/l #	74
44) Isopropyl Acetate	8.682	43	2384	0.326	ug/l #	49
55) 2-Chloroethyl vinyl ether	10.153	63	2066	1.162	ug/l #	89
59) 2-Hexanone	11.188	43	710	0.249	ug/l #	73
77) t-1,4-Dichloro-2-butene	12.841	75	47612	30.849	ug/l #	12
78) 4-Chlorotoluene	13.217	91	1926	0.230	ug/l	67
79) tert-butylbenzene	13.717	119	1634	0.203	ug/l	34
83) 1,3-Dichlorobenzene	13.723	146	949	0.204	ug/l	96
84) 1,4-Dichlorobenzene	13.806	146	1094	0.234	ug/l	93
85) n-Butylbenzene	14.053	91	2863	0.340	ug/l	89
89) 1,2,4-Trichlorobenzene	15.835	180	1290	0.577	ug/l	95
90) Hexachlorobutadiene	15.500	225	595	0.617	ug/l	74
91) Naphthalene	15.635	128	6778	0.769	ug/l	99
92) 1,2,3-Trichlorobenzene	15.835	180	1290	0.577	ug/l	95

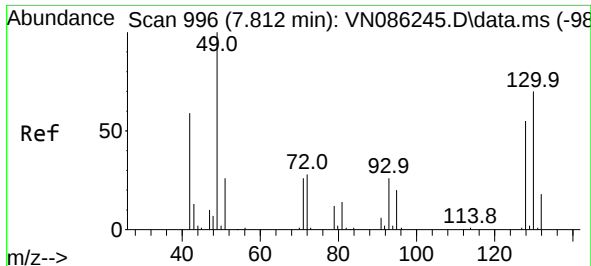
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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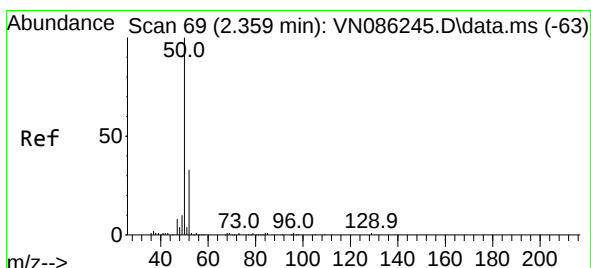
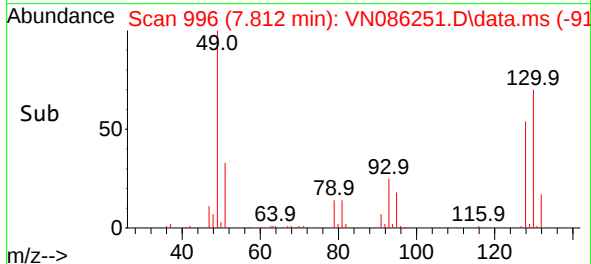
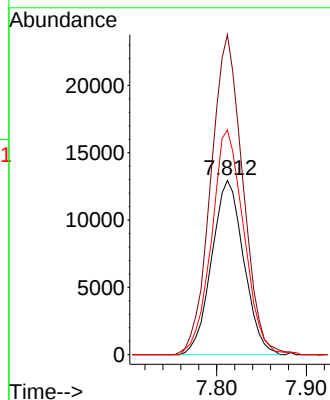
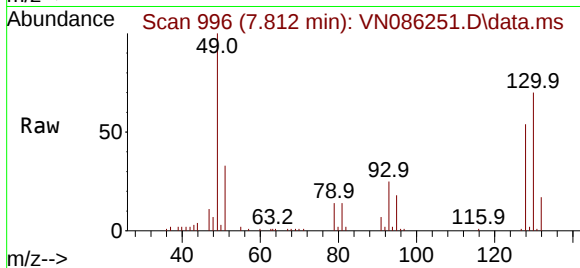




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN086251.D
Acq: 11 Apr 2025 15:40

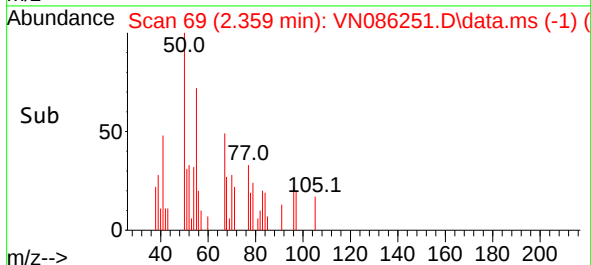
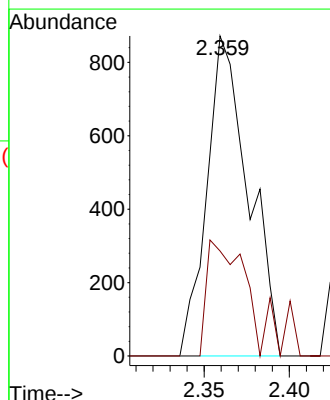
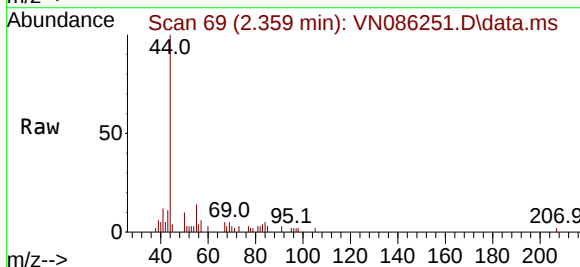
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBL01

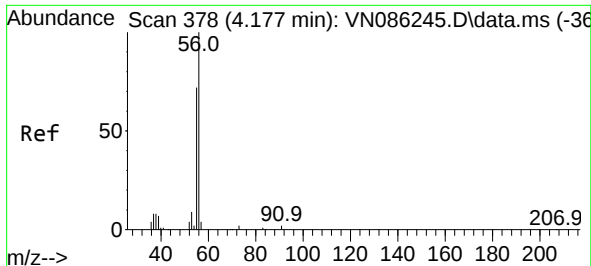
Tgt Ion:128 Resp: 32111
Ion Ratio Lower Upper
128 100
49 183.1 0.0 452.5
130 129.9 0.0 315.0



#3
Chloromethane
Concen: 0.418 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN086251.D
Acq: 11 Apr 2025 15:40

Tgt Ion: 50 Resp: 1486
Ion Ratio Lower Upper
50 100
52 32.8 26.4 39.6

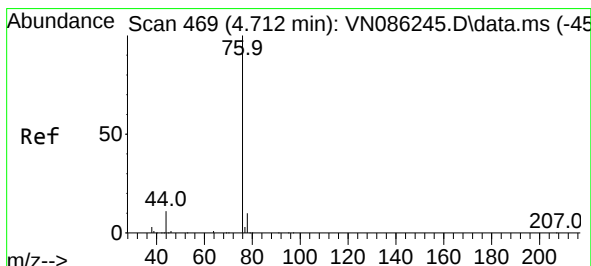
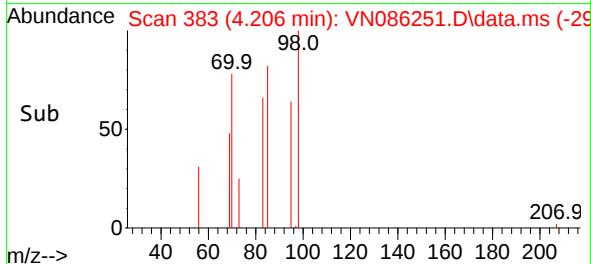
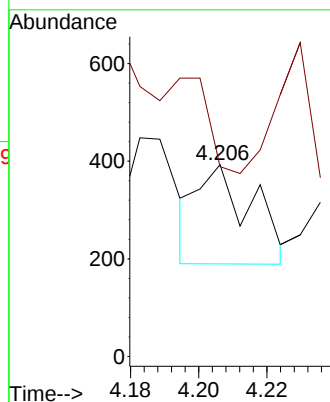
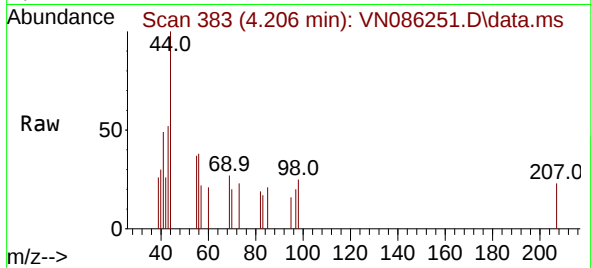




#13
Acrolein
Concen: 0.573 ug/l
RT: 4.206 min Scan# 31
Delta R.T. 0.029 min
Lab File: VN086251.D
Acq: 11 Apr 2025 15:40

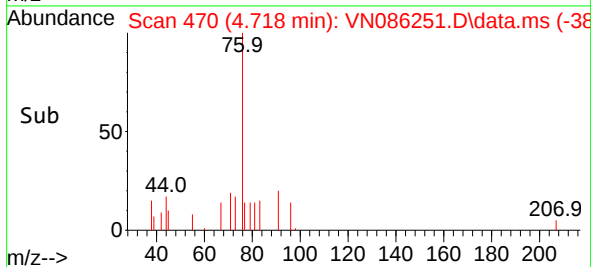
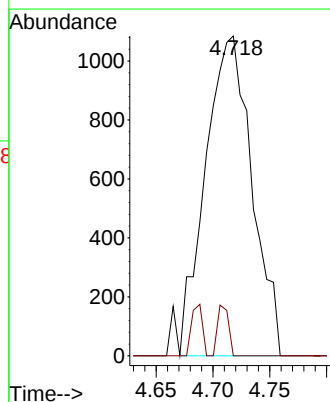
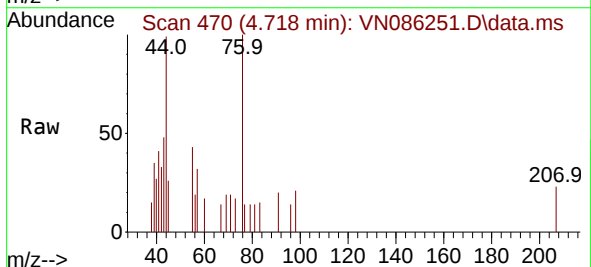
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBL01

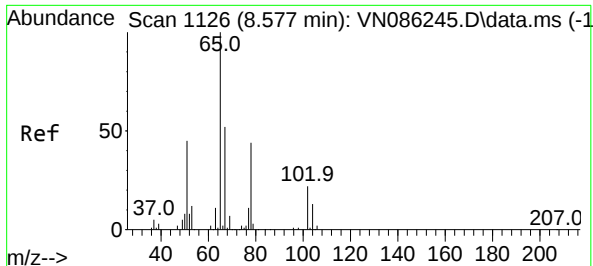
Tgt Ion: 56 Resp: 225
Ion Ratio Lower Upper
56 100
55 63.6 56.5 84.7



#16
Carbon Disulfide
Concen: 0.441 ug/l
RT: 4.718 min Scan# 470
Delta R.T. 0.006 min
Lab File: VN086251.D
Acq: 11 Apr 2025 15:40

Tgt Ion: 76 Resp: 3090
Ion Ratio Lower Upper
76 100
78 0.0 7.7 11.5#





#27

1,2-Dichloroethane-d4

Concen: 30.679 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086251.D

Acq: 11 Apr 2025 15:40

Instrument :

MSVOA_N

ClientSampleId :

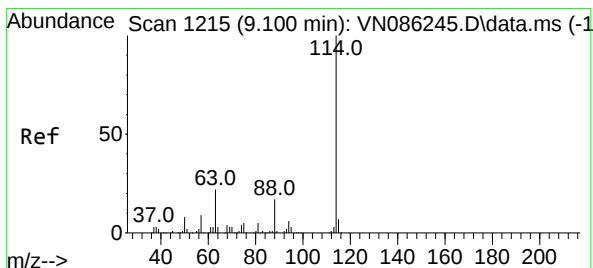
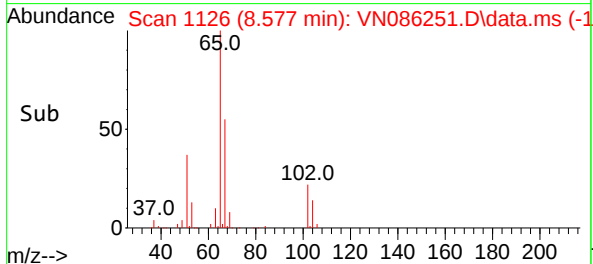
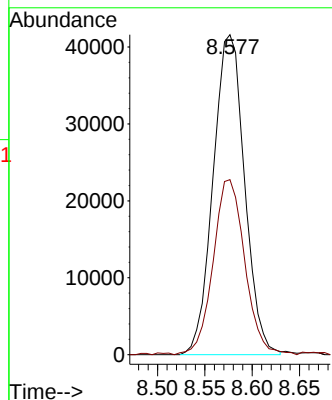
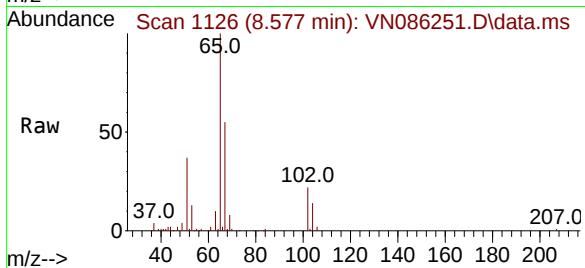
VN0411WBL01

Tgt Ion: 65 Resp: 96086

Ion Ratio Lower Upper

65 100

67 55.0 43.4 65.2



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN086251.D

Acq: 11 Apr 2025 15:40

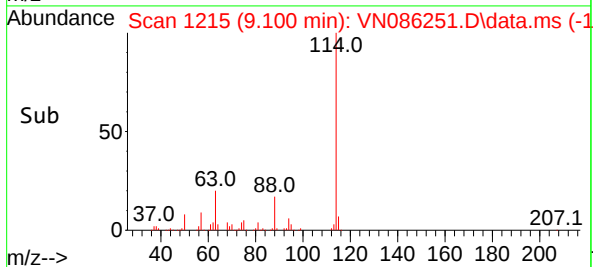
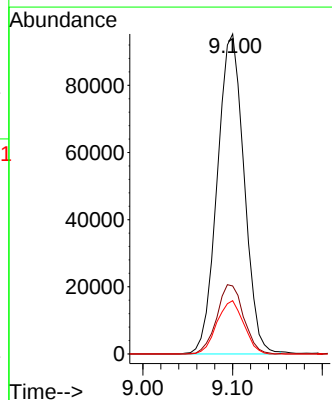
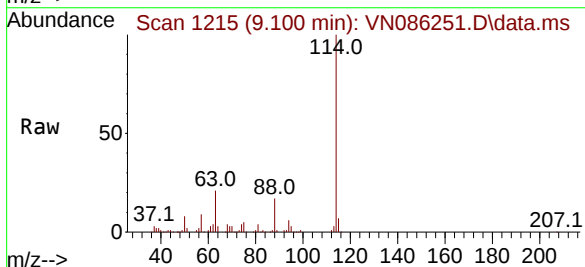
Tgt Ion: 114 Resp: 197127

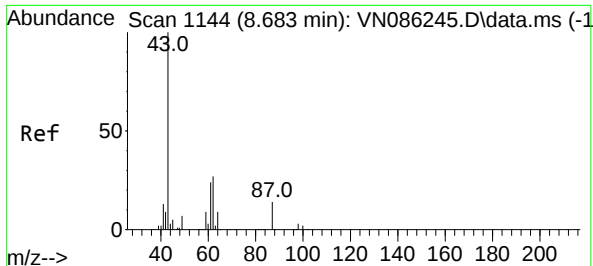
Ion Ratio Lower Upper

114 100

63 21.7 17.8 26.6

88 16.6 13.4 20.2





#44

Isopropyl Acetate

Concen: 0.326 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. -0.000 min

Lab File: VN086251.D

Acq: 11 Apr 2025 15:40

Instrument :

MSVOA_N

ClientSampleId :

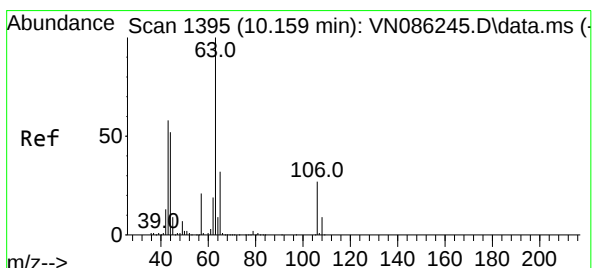
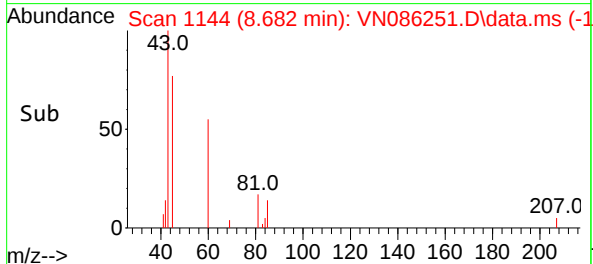
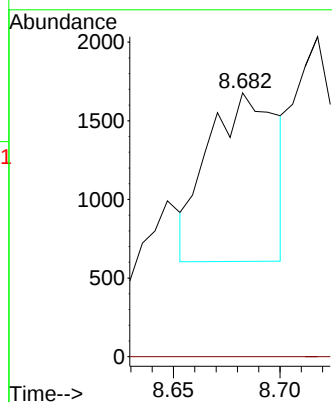
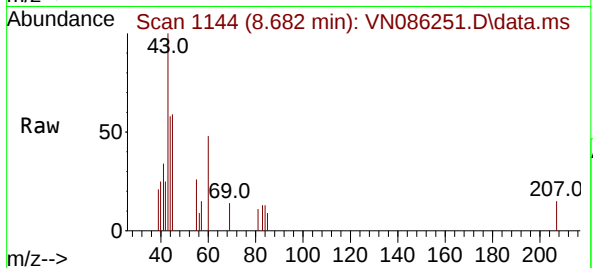
VN0411WBL01

Tgt Ion: 43 Resp: 2384

Ion Ratio Lower Upper

43 100

61 0.0 20.5 30.7#



#55

2-Chloroethyl vinyl ether

Concen: 1.162 ug/l

RT: 10.153 min Scan# 1394

Delta R.T. -0.006 min

Lab File: VN086251.D

Acq: 11 Apr 2025 15:40

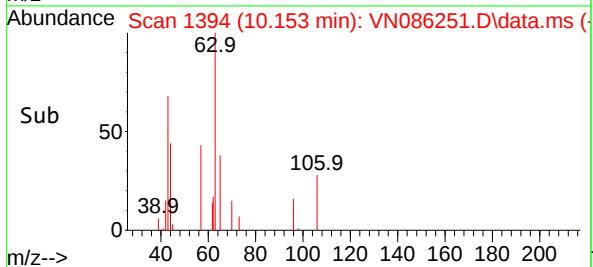
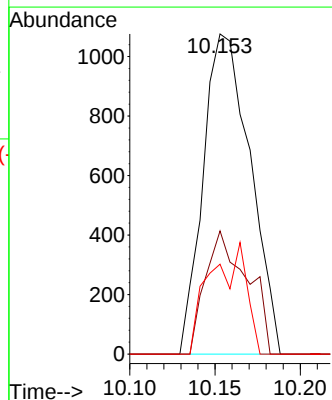
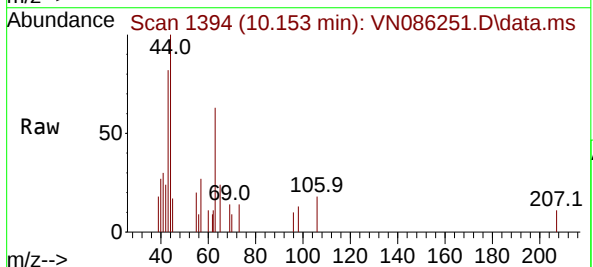
Tgt Ion: 63 Resp: 2066

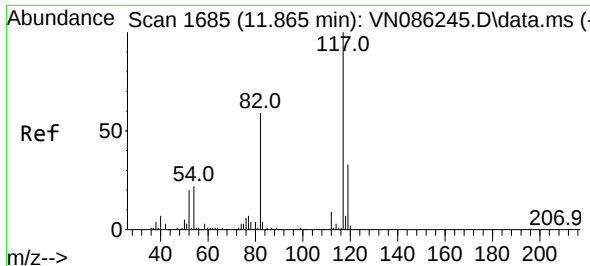
Ion Ratio Lower Upper

63 100

65 29.8 25.8 38.8

106 17.4 21.8 32.8#

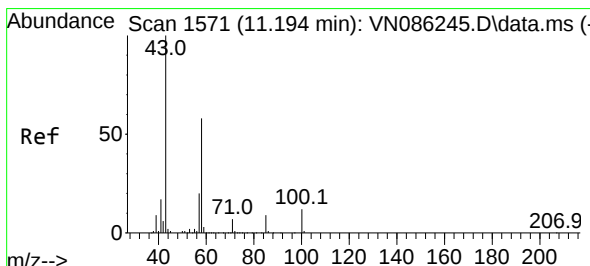
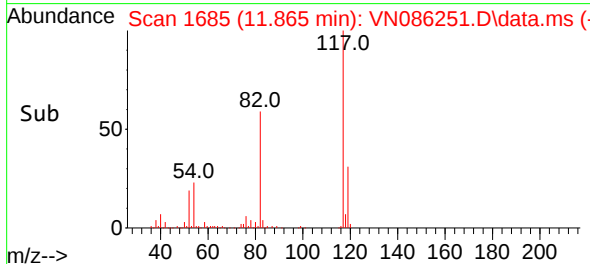
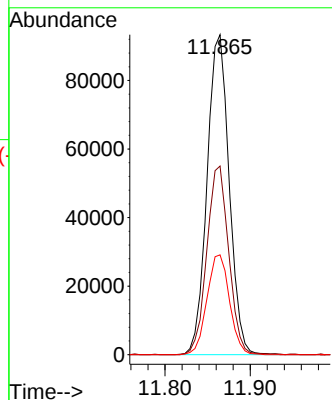
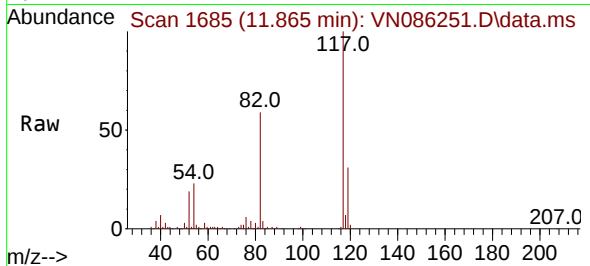




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086251.D
Acq: 11 Apr 2025 15:40

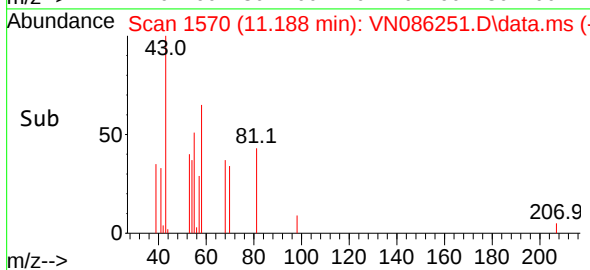
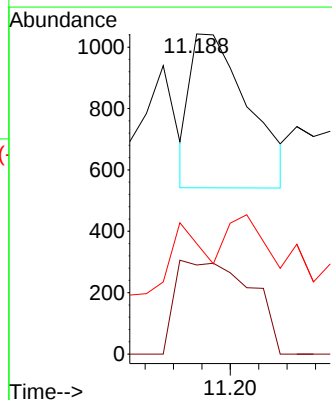
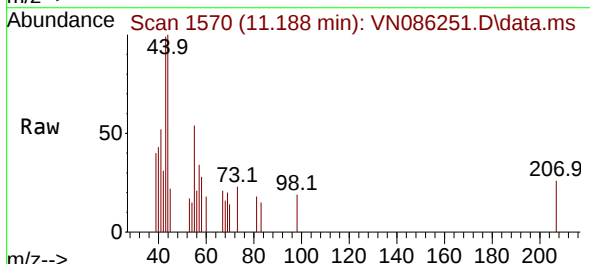
Instrument :
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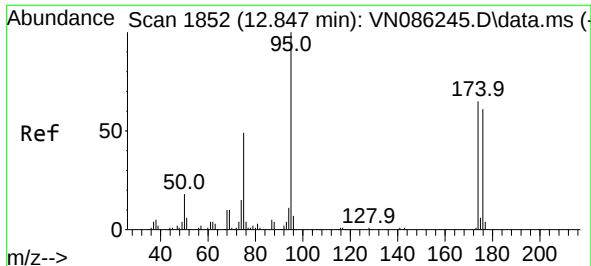
Tgt Ion:117 Resp: 168421
Ion Ratio Lower Upper
117 100
82 58.6 47.3 70.9
119 31.9 25.9 38.9



#59
2-Hexanone
Concen: 0.249 ug/l
RT: 11.188 min Scan# 1570
Delta R.T. -0.006 min
Lab File: VN086251.D
Acq: 11 Apr 2025 15:40

Tgt Ion: 43 Resp: 710
Ion Ratio Lower Upper
43 100
58 78.9 45.3 67.9#
57 27.6 15.8 23.6#

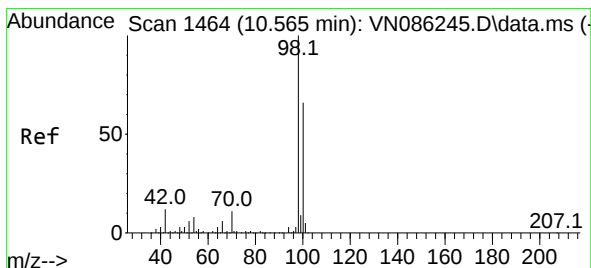
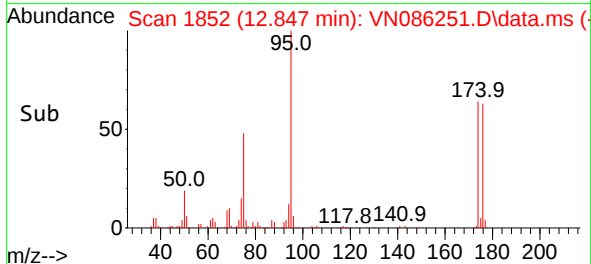
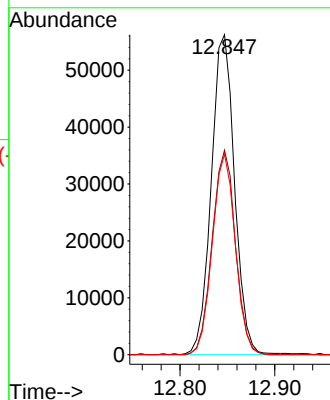
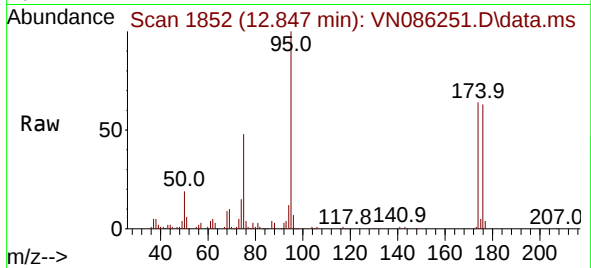




#60
4-Bromofluorobenzene
Concen: 28.635 ug/l
RT: 12.847 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086251.D
Acq: 11 Apr 2025 15:40

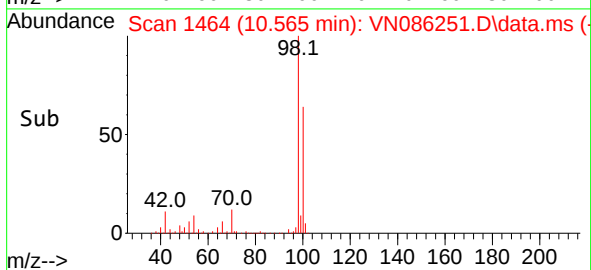
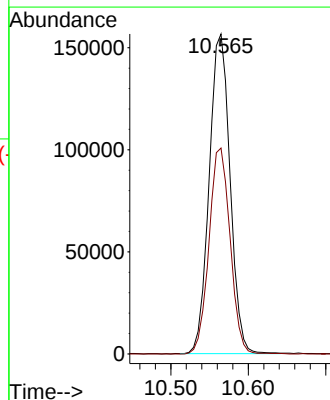
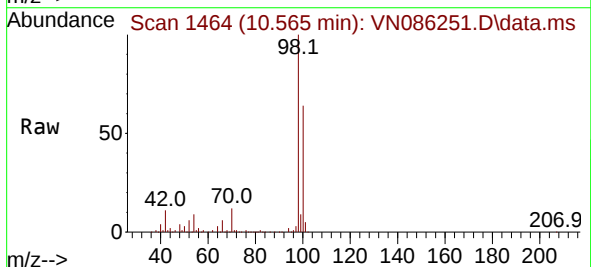
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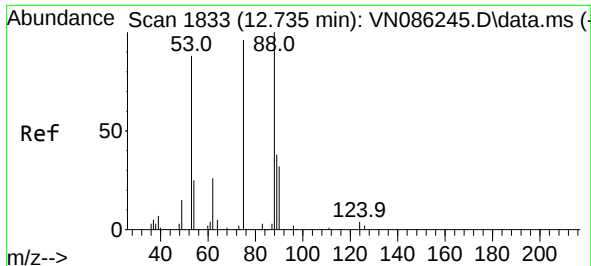
Tgt Ion: 95 Resp: 96020
Ion Ratio Lower Upper
95 100
174 63.7 52.7 79.1
176 61.7 49.8 74.8



#63
Toluene-d8
Concen: 30.829 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086251.D
Acq: 11 Apr 2025 15:40

Tgt Ion: 98 Resp: 293128
Ion Ratio Lower Upper
98 100
100 65.0 52.3 78.5

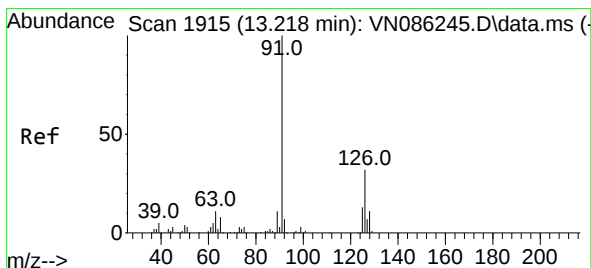
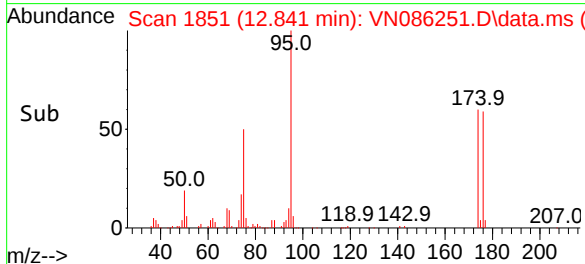
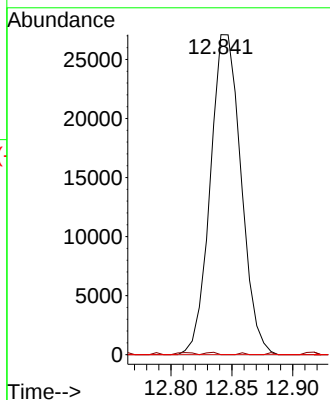
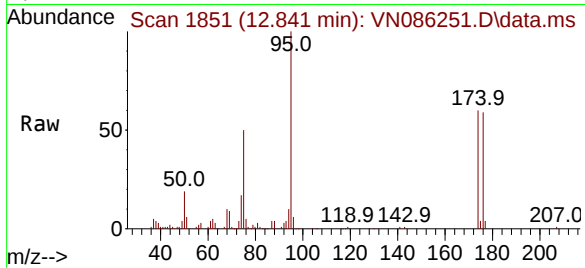




#77
t-1,4-Dichloro-2-butene
Concen: 30.849 ug/l
RT: 12.841 min Scan# 1833
Delta R.T. 0.106 min
Lab File: VN086251.D
Acq: 11 Apr 2025 15:40

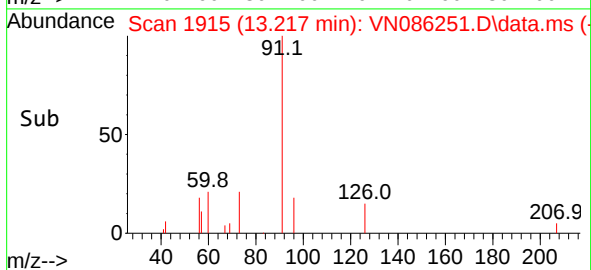
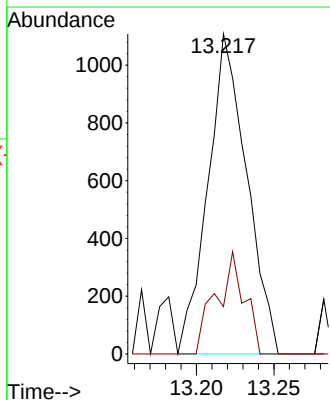
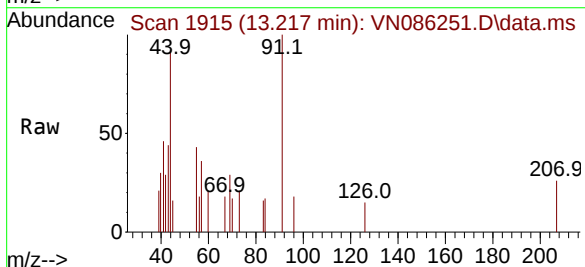
Instrument :
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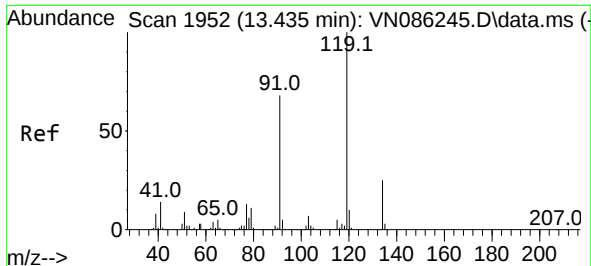
Tgt Ion: 75 Resp: 47612
Ion Ratio Lower Upper
75 100
53 0.0 46.4 139.2#
89 0.0 22.5 67.5#



#78
4-Chlorotoluene
Concen: 0.230 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.000 min
Lab File: VN086251.D
Acq: 11 Apr 2025 15:40

Tgt Ion: 91 Resp: 1926
Ion Ratio Lower Upper
91 100
126 13.2 0.0 63.2

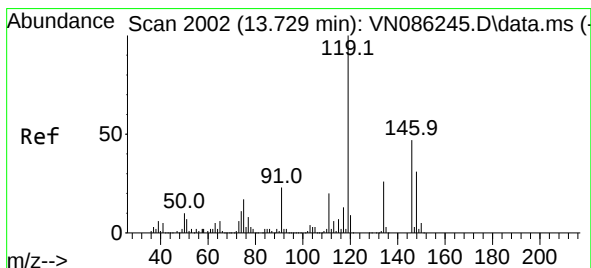
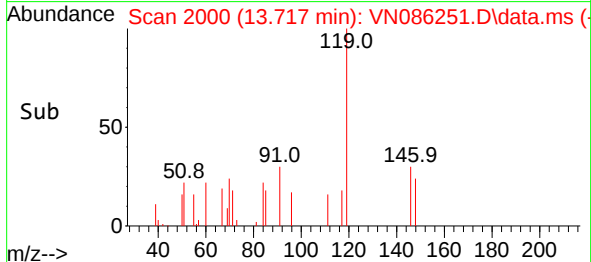
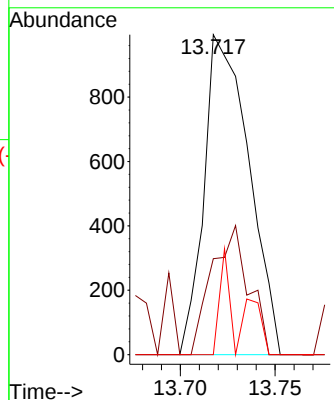
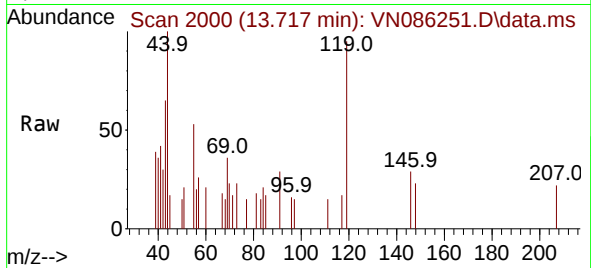




#79
tert-butylbenzene
Concen: 0.203 ug/l
RT: 13.717 min Scan# 2000
Delta R.T. 0.282 min
Lab File: VN086251.D
Acq: 11 Apr 2025 15:40

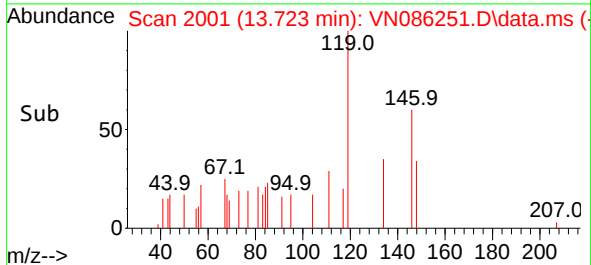
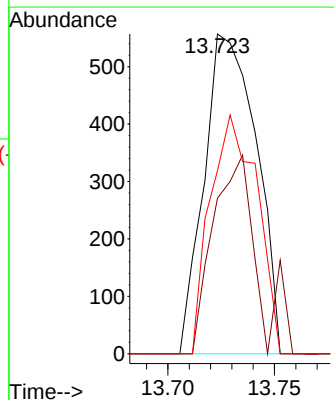
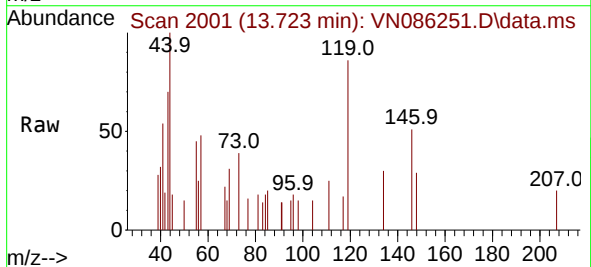
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBL01

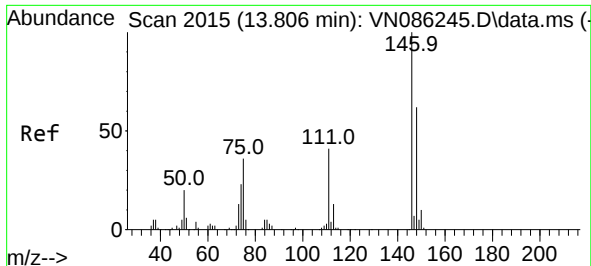
Tgt Ion:119 Resp: 1634
Ion Ratio Lower Upper
119 100
91 5.5 0.0 136.6
134 7.1 0.0 49.4



#83
1,3-Dichlorobenzene
Concen: 0.204 ug/l
RT: 13.723 min Scan# 2001
Delta R.T. -0.006 min
Lab File: VN086251.D
Acq: 11 Apr 2025 15:40

Tgt Ion:146 Resp: 949
Ion Ratio Lower Upper
146 100
111 45.9 21.7 65.1
148 67.0 32.3 96.8

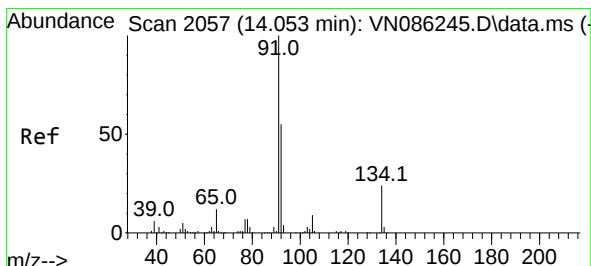
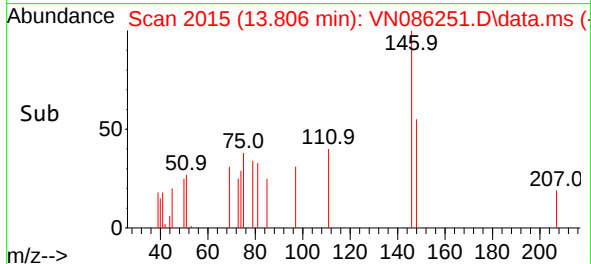
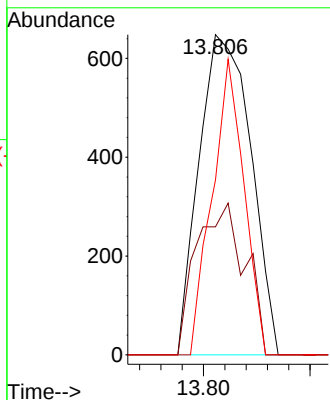
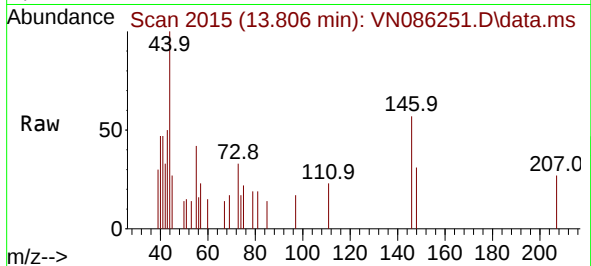




#84
1,4-Dichlorobenzene
Concen: 0.234 ug/l
RT: 13.806 min Scan# 2015
Delta R.T. -0.000 min
Lab File: VN086251.D
Acq: 11 Apr 2025 15:40

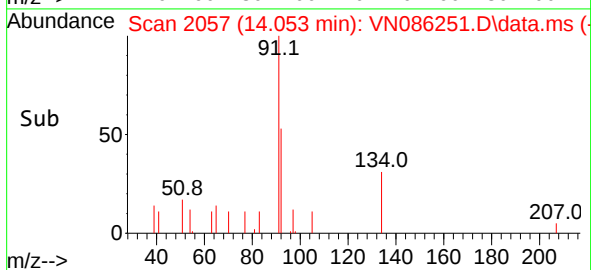
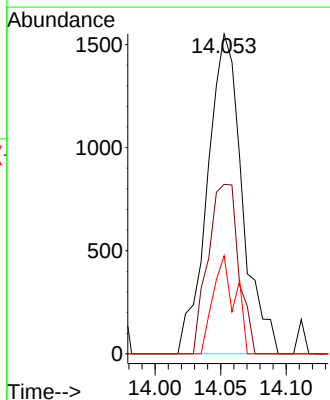
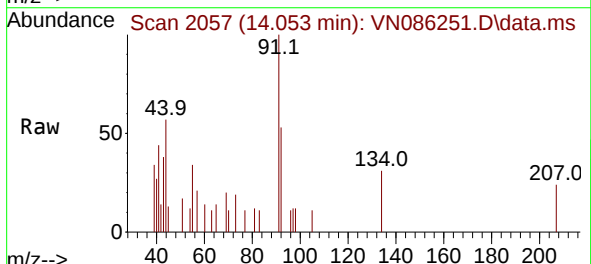
Instrument :
MSVOA_N
ClientSampleId :
VN0411WBL01

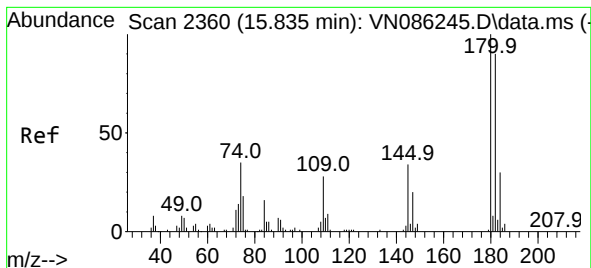
Tgt Ion:	146	Resp:	1094
Ion	Ratio	Lower	Upper
146	100		
111	44.5	20.8	62.4
148	56.9	31.9	95.5



#85
n-Butylbenzene
Concen: 0.340 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. -0.000 min
Lab File: VN086251.D
Acq: 11 Apr 2025 15:40

Tgt Ion:	91	Resp:	2863
Ion	Ratio	Lower	Upper
91	100		
92	46.5	0.0	109.4
134	19.6	0.0	48.2





#89

1,2,4-Trichlorobenzene

Concen: 0.577 ug/l

RT: 15.835 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN086251.D

Acq: 11 Apr 2025 15:40

Instrument :

MSVOA_N

ClientSampleId :

VN0411WBL01

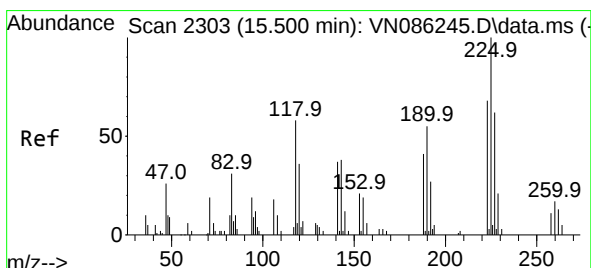
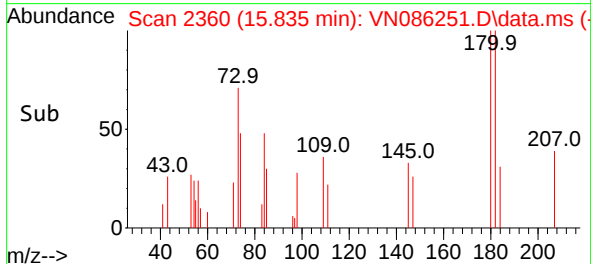
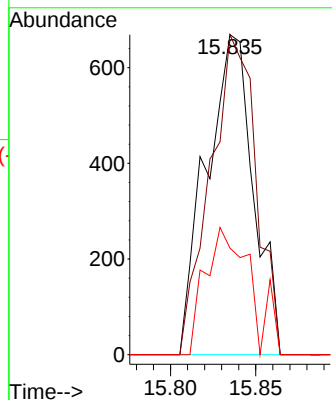
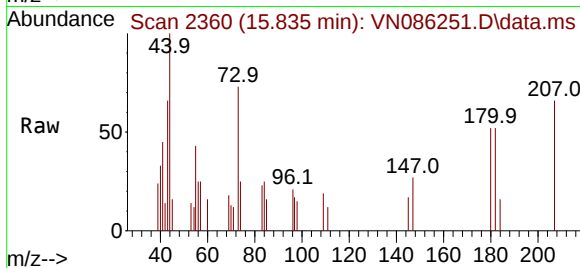
Tgt Ion:180 Resp: 1290

Ion Ratio Lower Upper

180 100

182 96.8 75.1 112.7

145 28.3 27.1 40.7



#90

Hexachlorobutadiene

Concen: 0.617 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. -0.000 min

Lab File: VN086251.D

Acq: 11 Apr 2025 15:40

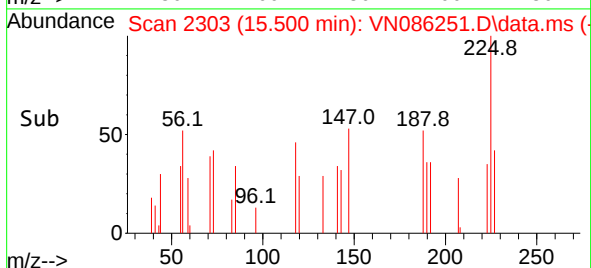
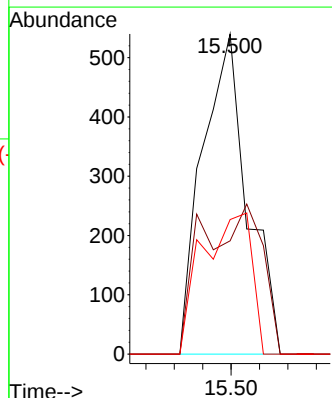
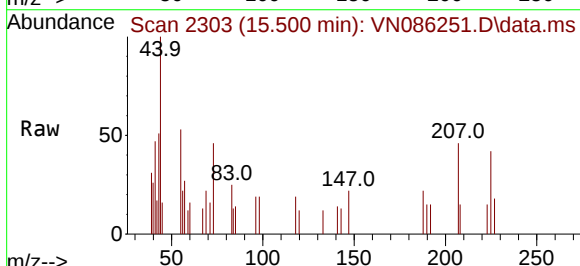
Tgt Ion:225 Resp: 595

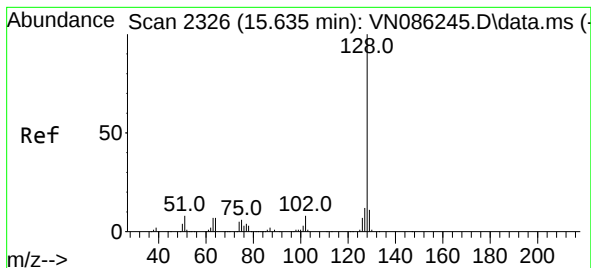
Ion Ratio Lower Upper

225 100

223 37.1 0.0 130.0

227 48.6 0.0 123.2

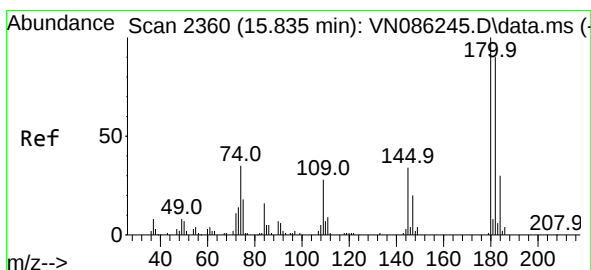
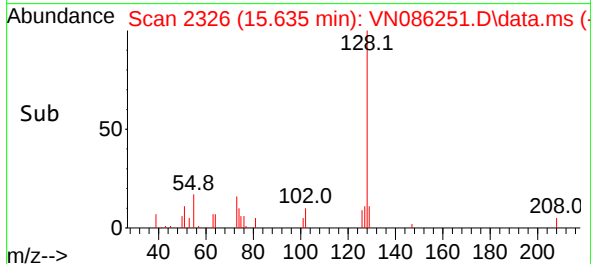
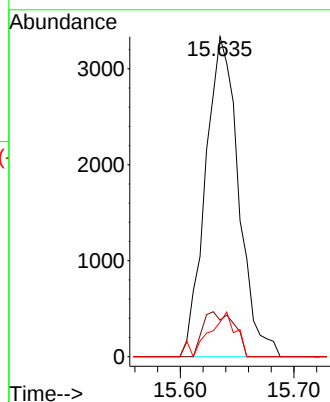
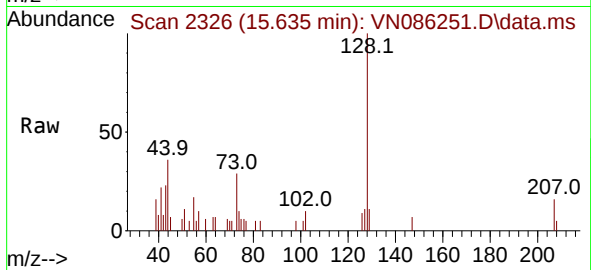




#91
Naphthalene
Concen: 0.769 ug/l
RT: 15.635 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN086251.D
Acq: 11 Apr 2025 15:40

Instrument :
MSVOA_N
ClientSampleId :
VN0411WBL01

Tgt Ion:128 Resp: 6778
Ion Ratio Lower Upper
128 100
127 13.3 10.2 15.2
129 10.6 8.8 13.2



#92
1,2,3-Trichlorobenzene
Concen: 0.577 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN086251.D
Acq: 11 Apr 2025 15:40

Tgt Ion:180 Resp: 1290
Ion Ratio Lower Upper
180 100
182 96.8 0.0 187.8
145 28.3 0.0 67.8

