

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN012725\
 Data File : VN085517.D
 Acq On : 27 Jan 2025 15:24
 Operator : JC\MD
 Sample : VN0127MBL01
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jan 28 02:00:04 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 02:16:08 2025
 Response via : Initial Calibration

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

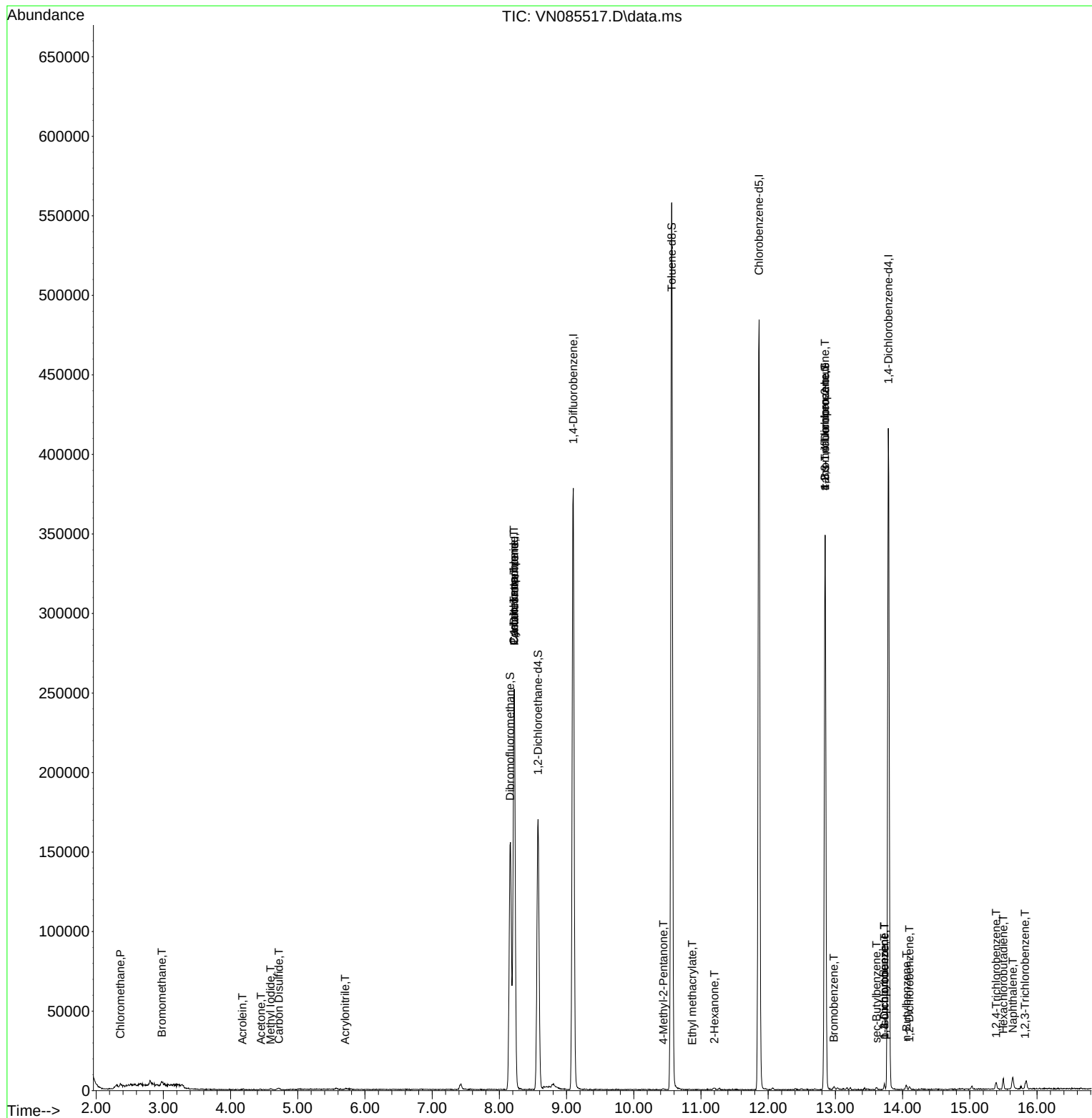
Internal Standards						
1) Pentafluorobenzene	8.224	168	175413	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	312829	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	268752	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	108053	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	144180	50.920	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 101.840%			
35) Dibromofluoromethane	8.159	113	110808	51.057	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.120%			
50) Toluene-d8	10.565	98	376262	48.796	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 97.600%			
62) 4-Bromofluorobenzene	12.847	95	116641	44.221	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 88.440%			
Target Compounds					Qvalue	
3) Chloromethane	2.359	50	953	0.371	ug/l #	69
5) Bromomethane	2.977	94	1468	0.940	ug/l	83
10) Methyl Iodide	4.594	142	913	0.377	ug/l #	82
13) Acrolein	4.177	56	437	0.987	ug/l #	52
15) Acrylonitrile	5.706	53	380	0.369	ug/l #	76
16) Acetone	4.453	43	569	0.622	ug/l #	45
17) Carbon Disulfide	4.718	76	2256	0.389	ug/l #	76
31) Cyclohexane	8.218	56	4893	1.362	ug/l #	35
36) 1,1-Dichloropropene	8.218	75	16520	5.424	ug/l #	50
38) Carbon Tetrachloride	8.218	117	18934	5.430	ug/l #	17
51) 4-Methyl-2-Pentanone	10.441	43	774	0.271	ug/l #	37
56) Ethyl methacrylate	10.871	69	60	1.947	ug/l #	23
59) 2-Hexanone	11.200	43	1218	0.606	ug/l	94
76) 1,2,3-Trichloropropane	12.847	75	64937	29.568	ug/l #	1
77) Bromobenzene	12.976	156	470	0.247	ug/l	95
81) trans-1,4-Dichloro-2-b...	12.847	75	64937	79.998	ug/l #	3
85) sec-Butylbenzene	13.611	105	1457	0.208	ug/l	96
86) p-Isopropyltoluene	13.729	119	1144	0.230	ug/l #	58
87) 1,3-Dichlorobenzene	13.729	146	1058	0.302	ug/l	88
88) 1,4-Dichlorobenzene	13.729	146	1058	0.291	ug/l	88
89) n-Butylbenzene	14.059	91	2130	0.423	ug/l	98
91) 1,2-Dichlorobenzene	14.100	146	1138	0.325	ug/l	89
93) 1,2,4-Trichlorobenzene	15.394	180	1949	1.198	ug/l	93
94) Hexachlorobutadiene	15.500	225	1349	1.562	ug/l	86
95) Naphthalene	15.641	128	8026	1.653	ug/l #	78
96) 1,2,3-Trichlorobenzene	15.823	180	2785	1.692	ug/l	88

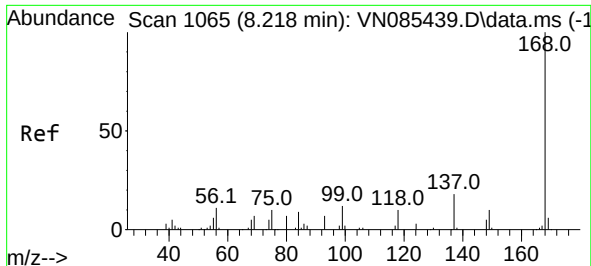
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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Response via : Initial Calibration

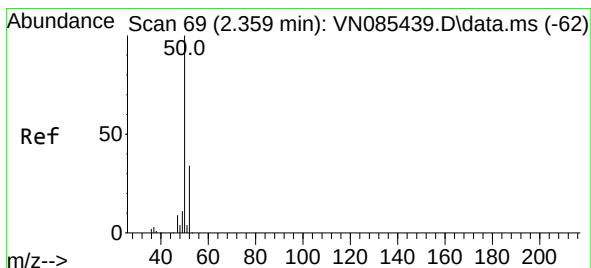
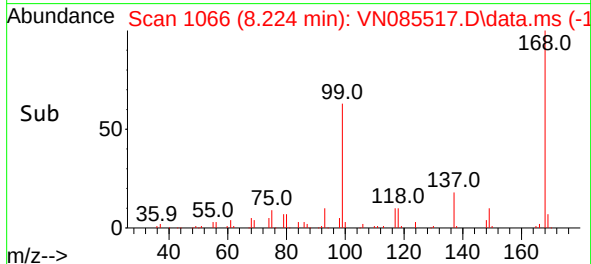
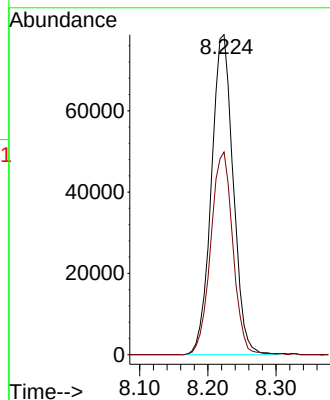
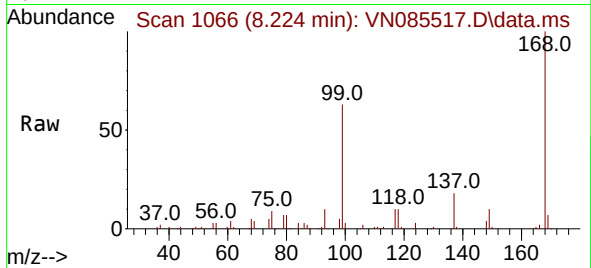




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085517.D
Acq: 27 Jan 2025 15:24

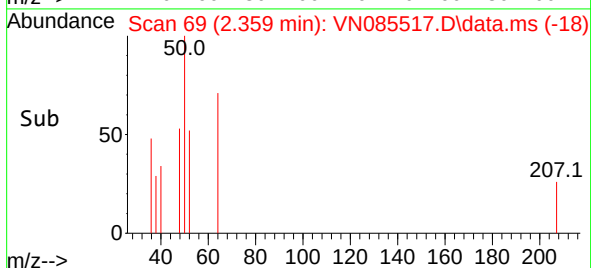
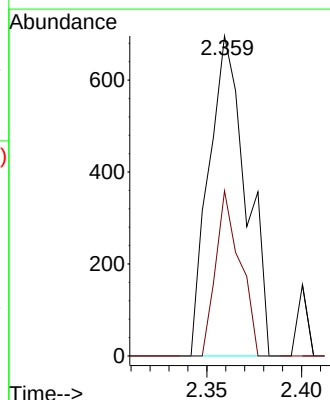
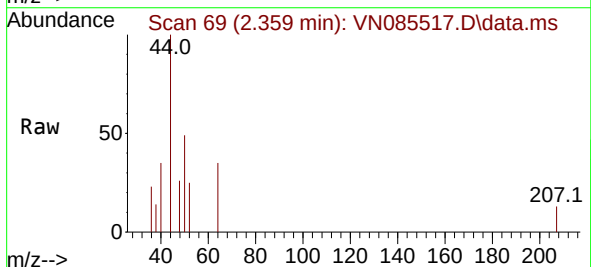
Instrument :
MSVOA_N
ClientSampleId :

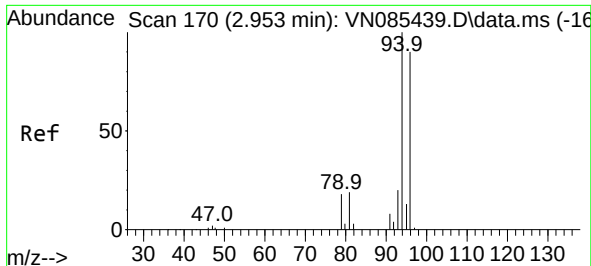
Tgt Ion:168 Resp: 175413
Ion Ratio Lower Upper
168 100
99 63.3 53.6 80.4



#3
Chloromethane
Concen: 0.371 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN085517.D
Acq: 27 Jan 2025 15:24

Tgt Ion: 50 Resp: 953
Ion Ratio Lower Upper
50 100
52 51.6 27.0 40.6#

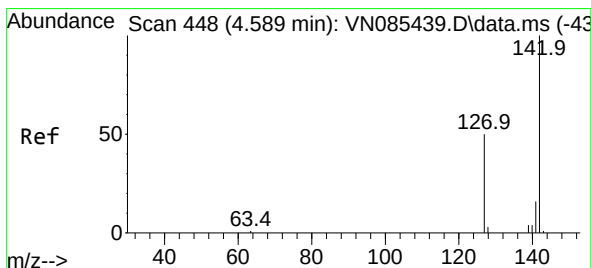
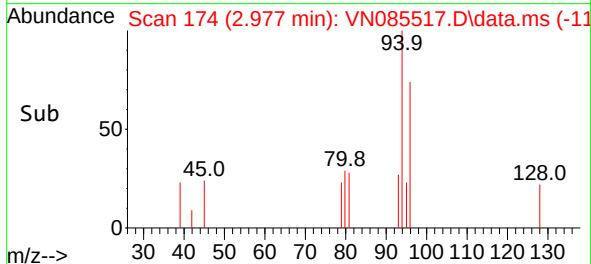
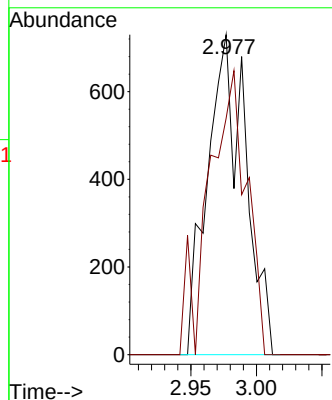
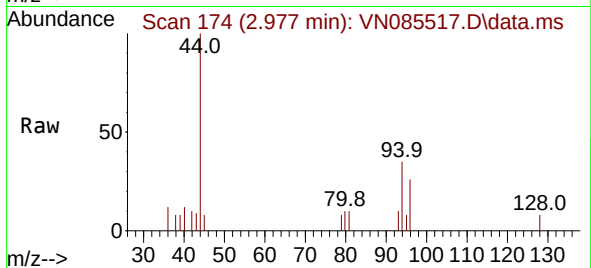




#5
Bromomethane
Concen: 0.940 ug/l
RT: 2.977 min Scan# 11
Delta R.T. 0.023 min
Lab File: VN085517.D
Acq: 27 Jan 2025 15:24

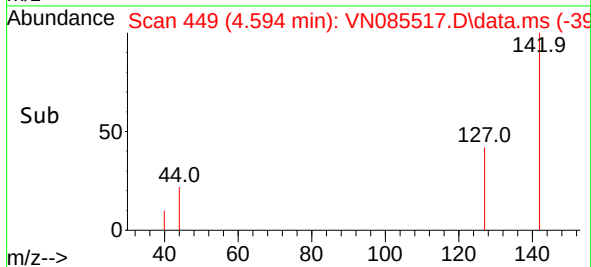
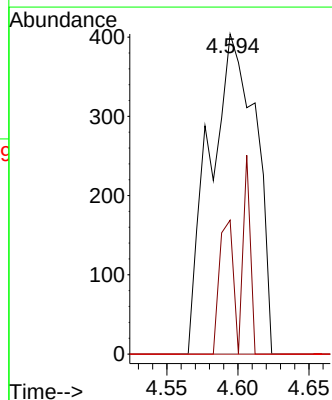
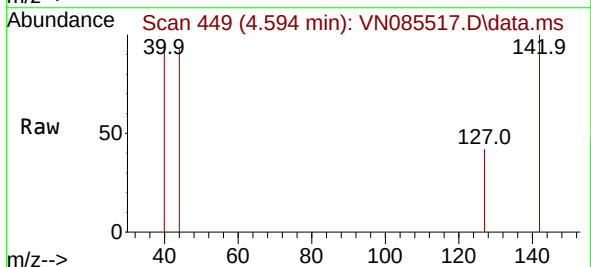
Instrument :
MSVOA_N
ClientSampleId :

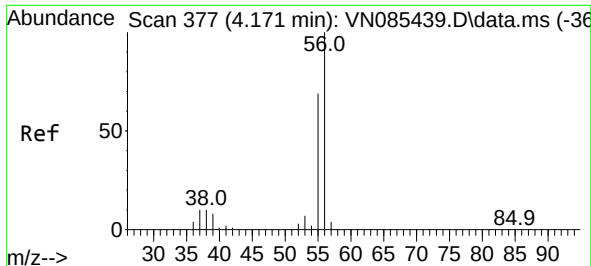
Tgt Ion: 94 Resp: 1468
Ion Ratio Lower Upper
94 100
96 73.8 71.8 107.6



#10
Methyl Iodide
Concen: 0.377 ug/l
RT: 4.594 min Scan# 449
Delta R.T. 0.006 min
Lab File: VN085517.D
Acq: 27 Jan 2025 15:24

Tgt Ion: 142 Resp: 913
Ion Ratio Lower Upper
142 100
127 41.8 40.3 60.5
141 0.0 12.8 19.2#





#13

Acrolein

Concen: 0.987 ug/l

RT: 4.177 min Scan# 31

Delta R.T. 0.006 min

Lab File: VN085517.D

Acq: 27 Jan 2025 15:24

Instrument :

MSVOA_N

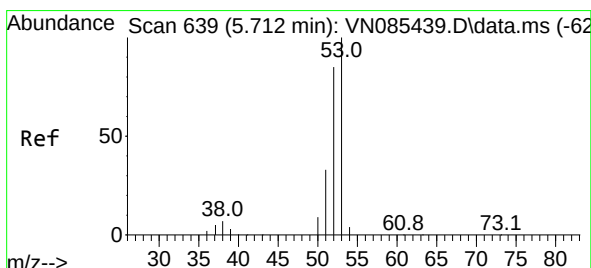
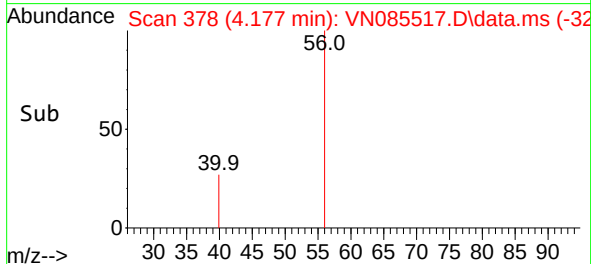
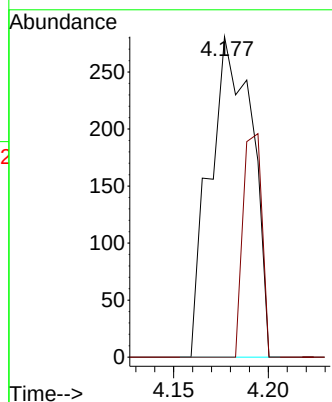
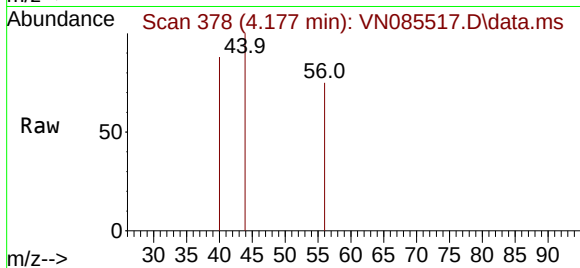
ClientSampleId :

Tgt Ion: 56 Resp: 437

Ion Ratio Lower Upper

56 100

55 31.1 56.3 84.5#



#15

Acrylonitrile

Concen: 0.369 ug/l

RT: 5.706 min Scan# 638

Delta R.T. -0.006 min

Lab File: VN085517.D

Acq: 27 Jan 2025 15:24

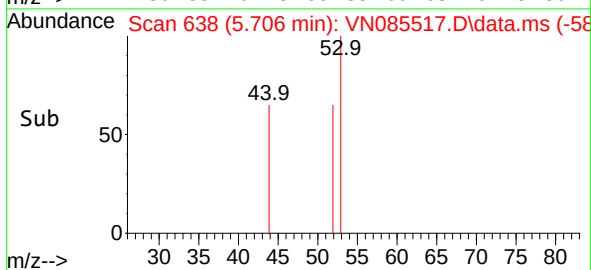
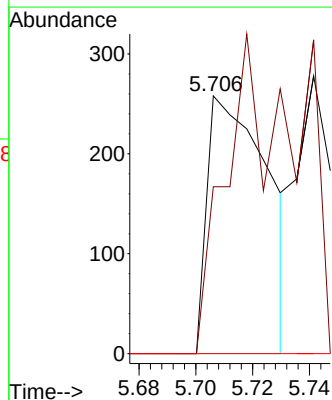
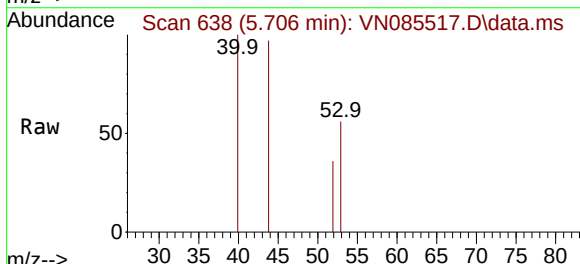
Tgt Ion: 53 Resp: 380

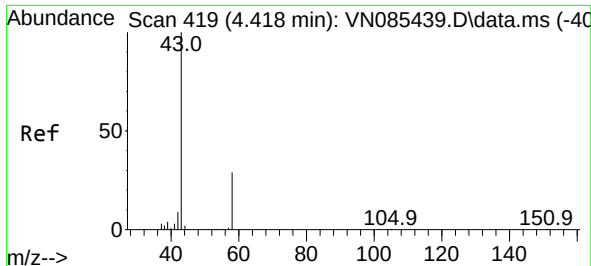
Ion Ratio Lower Upper

53 100

52 75.8 65.5 98.3

51 0.0 29.8 44.8#

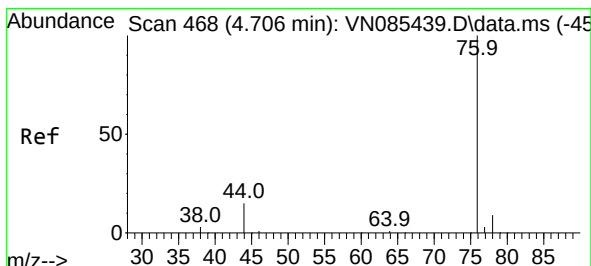
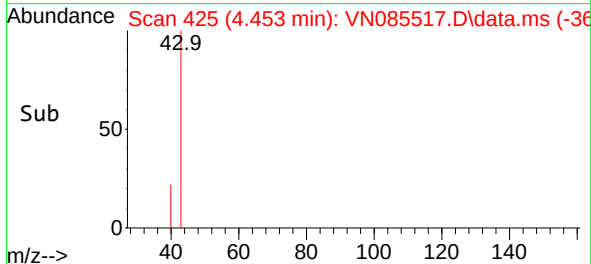
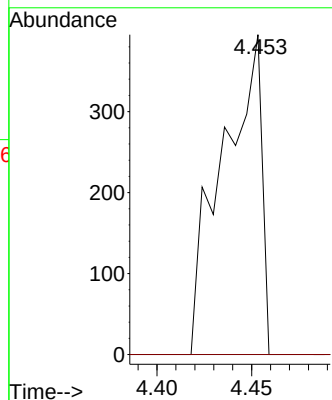
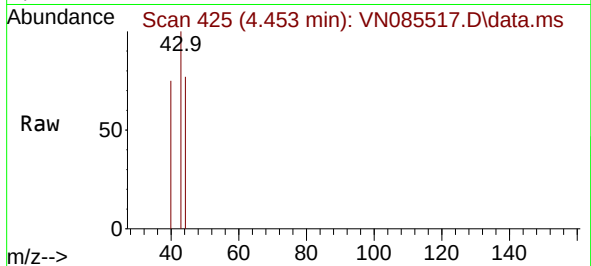




#16
Acetone
Concen: 0.622 ug/l
RT: 4.453 min Scan# 41
Delta R.T. 0.035 min
Lab File: VN085517.D
Acq: 27 Jan 2025 15:24

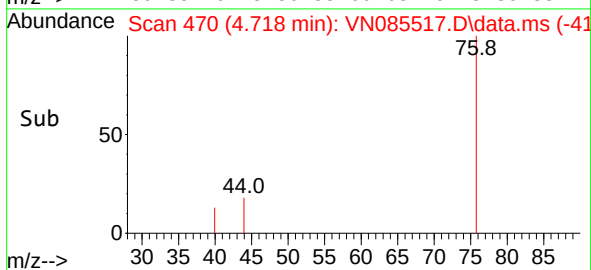
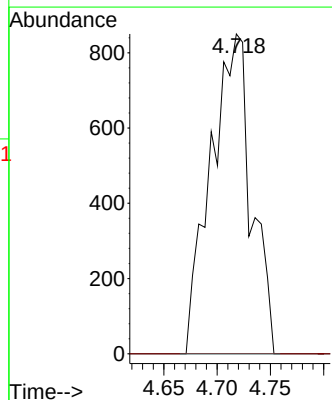
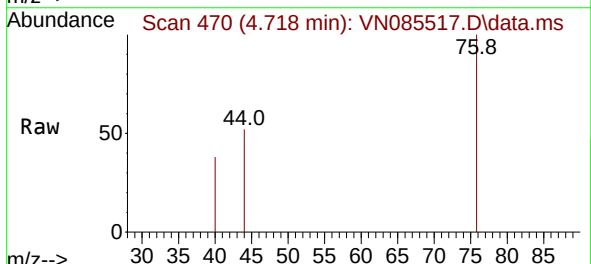
Instrument :
MSVOA_N
ClientSampleId :

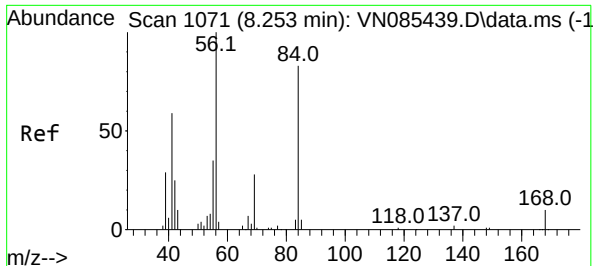
Tgt Ion: 43 Resp: 569
Ion Ratio Lower Upper
43 100
58 0.0 23.8 35.6#



#17
Carbon Disulfide
Concen: 0.389 ug/l
RT: 4.718 min Scan# 470
Delta R.T. 0.012 min
Lab File: VN085517.D
Acq: 27 Jan 2025 15:24

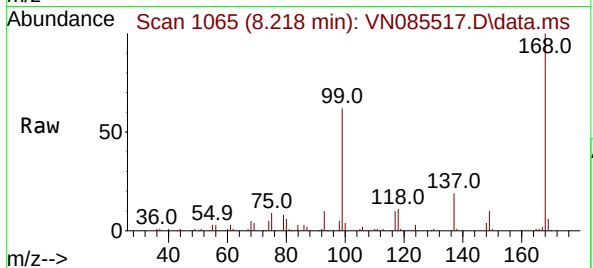
Tgt Ion: 76 Resp: 2256
Ion Ratio Lower Upper
76 100
78 0.0 6.9 10.3#



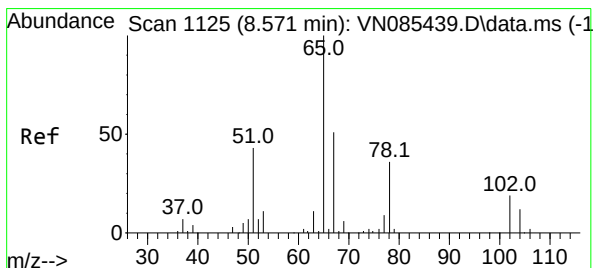
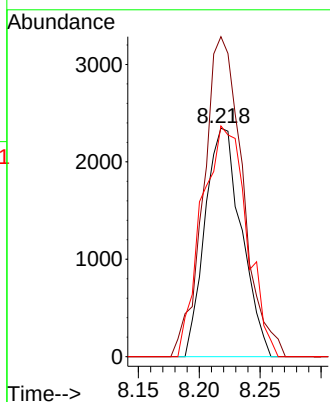
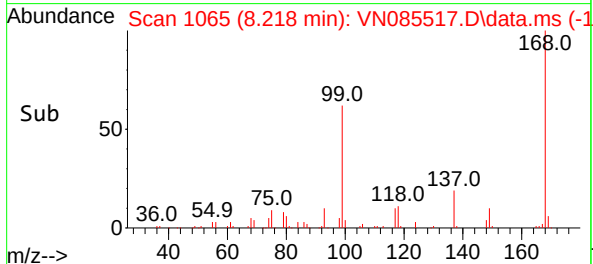


#31
Cyclohexane
Concen: 1.362 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.035 min
Lab File: VN085517.D
Acq: 27 Jan 2025 15:24

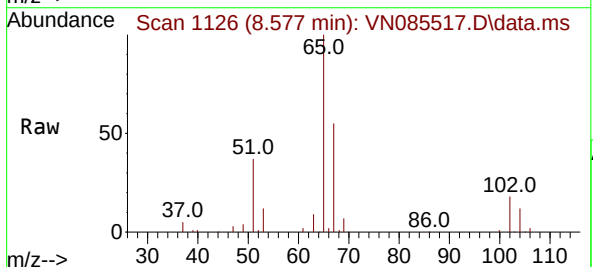
Instrument :
MSVOA_N
ClientSampleId :



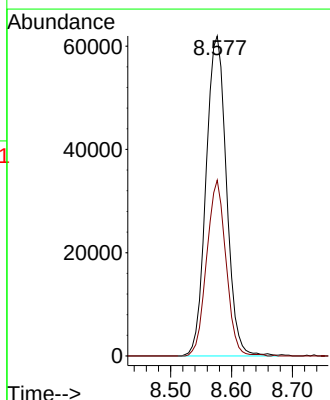
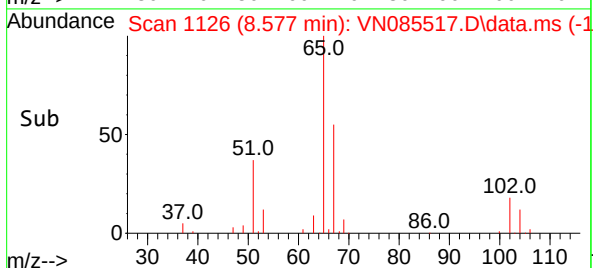
Tgt Ion: 56 Resp: 4893
Ion Ratio Lower Upper
56 100
69 132.4 22.2 33.4#
84 100.9 66.4 99.6#

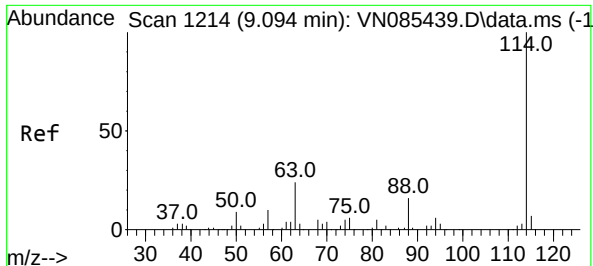


#33
1,2-Dichloroethane-d4
Concen: 50.920 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.006 min
Lab File: VN085517.D
Acq: 27 Jan 2025 15:24



Tgt Ion: 65 Resp: 144180
Ion Ratio Lower Upper
65 100
67 52.0 0.0 101.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN085517.D

Acq: 27 Jan 2025 15:24

Instrument :

MSVOA_N

ClientSampleId :

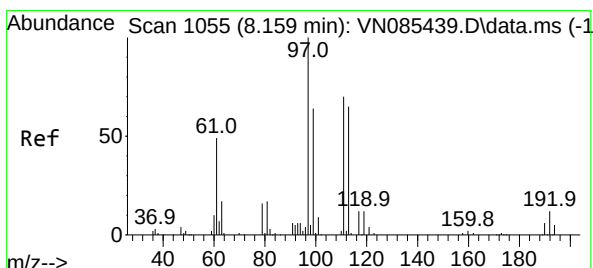
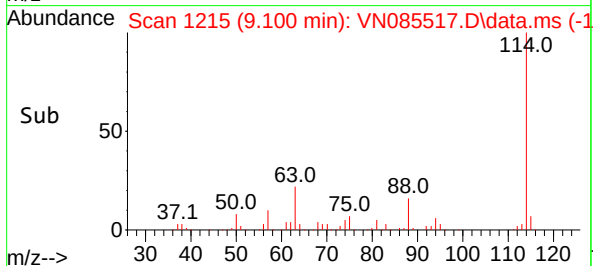
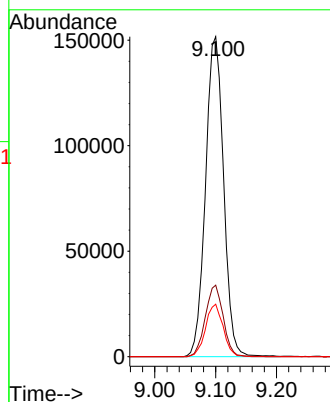
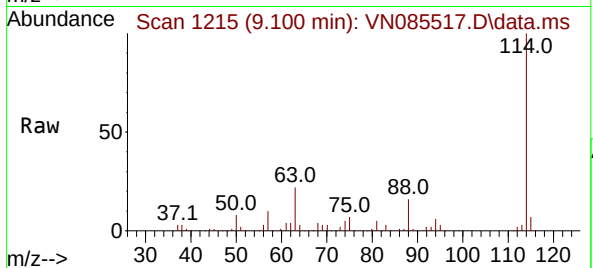
Tgt Ion:114 Resp: 312829

Ion Ratio Lower Upper

114 100

63 22.4 0.0 47.6

88 16.4 0.0 32.6



#35

Dibromofluoromethane

Concen: 51.057 ug/l

RT: 8.159 min Scan# 1055

Delta R.T. -0.000 min

Lab File: VN085517.D

Acq: 27 Jan 2025 15:24

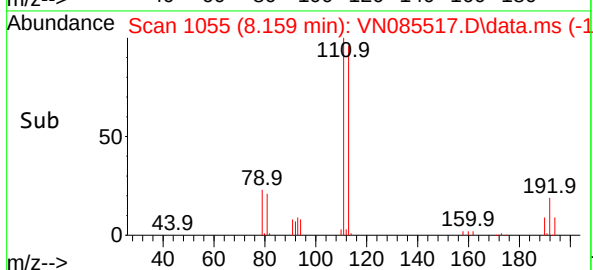
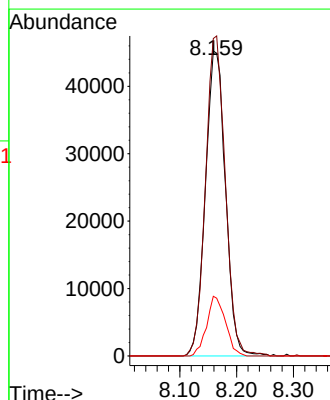
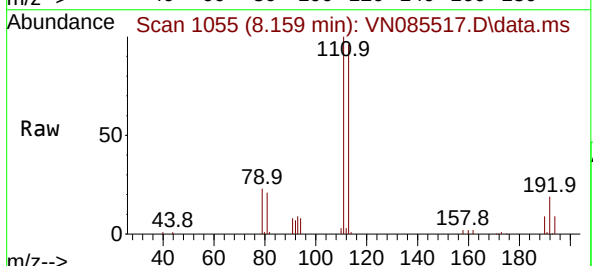
Tgt Ion:113 Resp: 110808

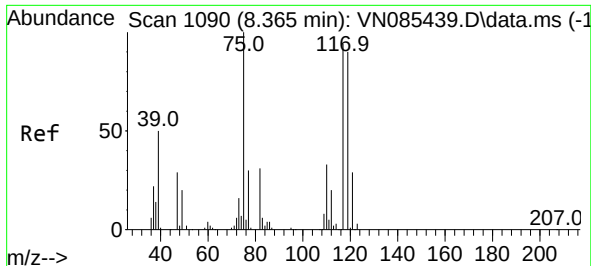
Ion Ratio Lower Upper

113 100

111 103.3 82.7 124.1

192 18.3 14.3 21.5





#36

1,1-Dichloropropene

Concen: 5.424 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.147 min

Lab File: VN085517.D

Acq: 27 Jan 2025 15:24

Instrument :

MSVOA_N

ClientSampleId :

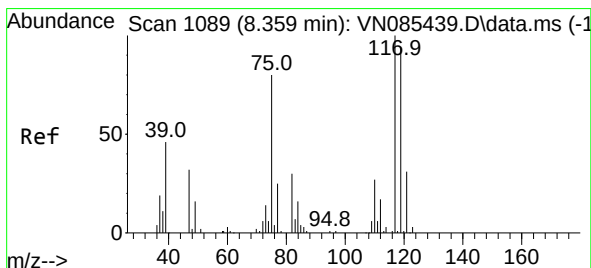
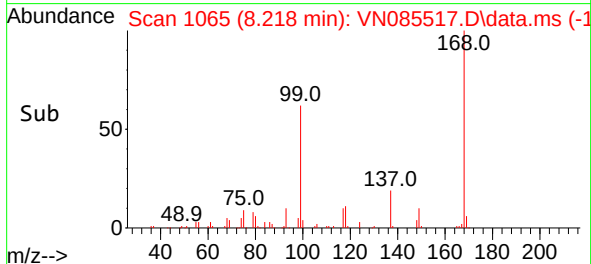
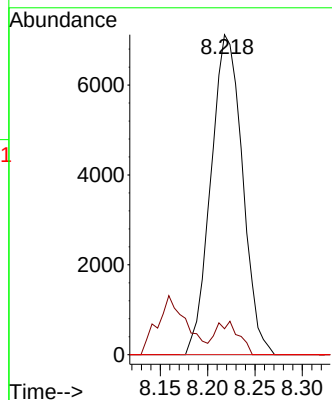
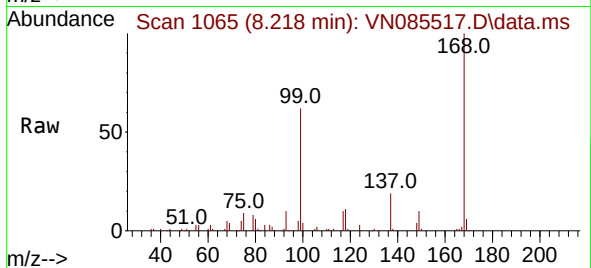
Tgt Ion: 75 Resp: 16520

Ion Ratio Lower Upper

75 100

110 7.6 16.5 49.5#

77 0.0 24.4 36.6#



#38

Carbon Tetrachloride

Concen: 5.430 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.141 min

Lab File: VN085517.D

Acq: 27 Jan 2025 15:24

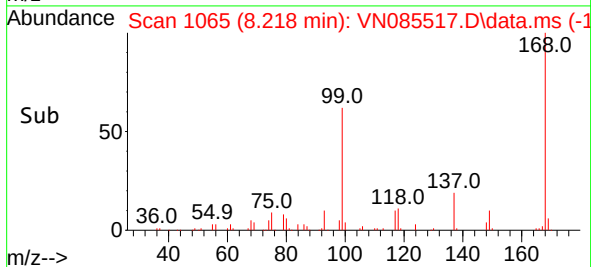
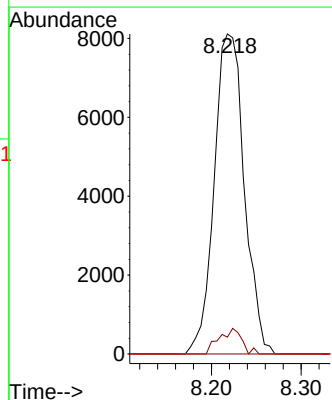
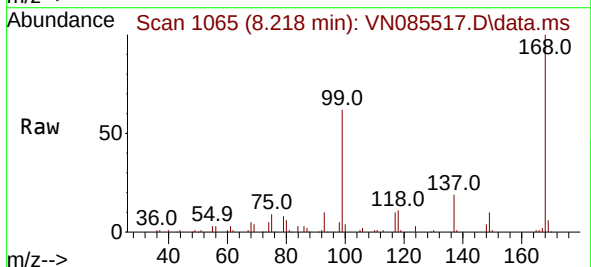
Tgt Ion: 117 Resp: 18934

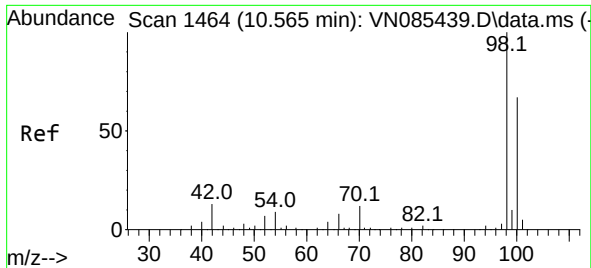
Ion Ratio Lower Upper

117 100

119 5.3 75.4 113.2#

121 0.0 24.6 37.0#

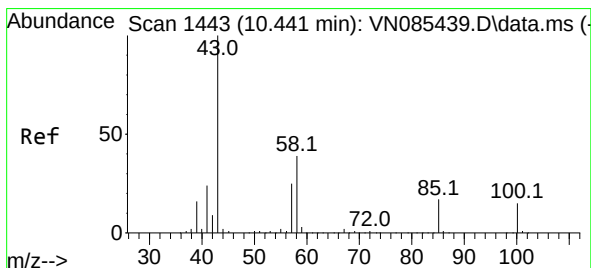
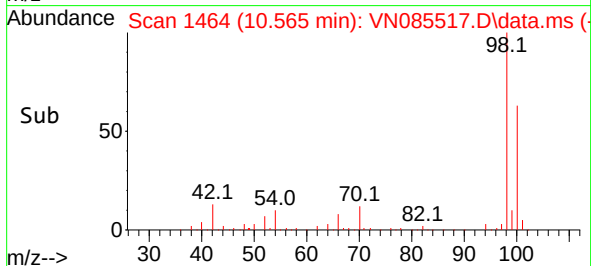
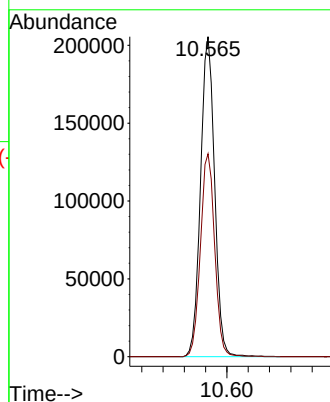
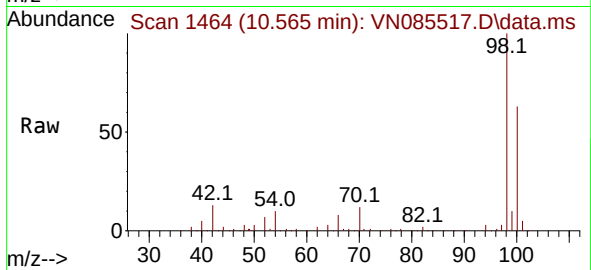




#50
Toluene-d8
Concen: 48.796 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN085517.D
Acq: 27 Jan 2025 15:24

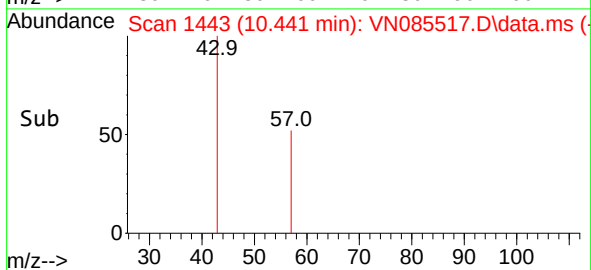
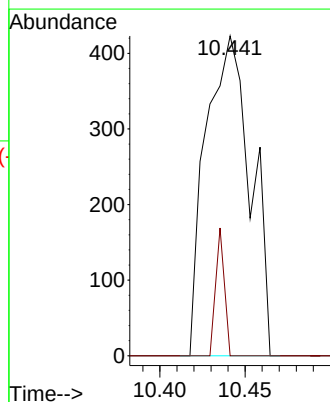
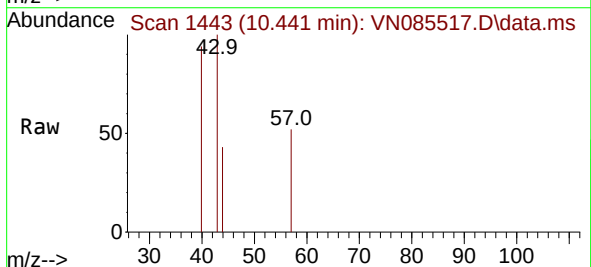
Instrument :
MSVOA_N
ClientSampleId :

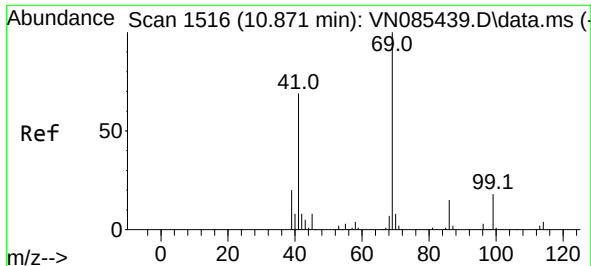
Tgt Ion: 98 Resp: 376262
Ion Ratio Lower Upper
98 100
100 64.2 52.2 78.4



#51
4-Methyl-2-Pentanone
Concen: 0.271 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085517.D
Acq: 27 Jan 2025 15:24

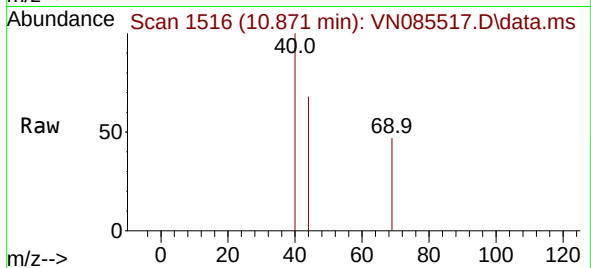
Tgt Ion: 43 Resp: 774
Ion Ratio Lower Upper
43 100
58 0.0 30.5 45.7#



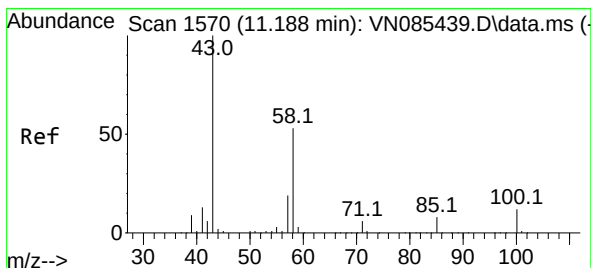
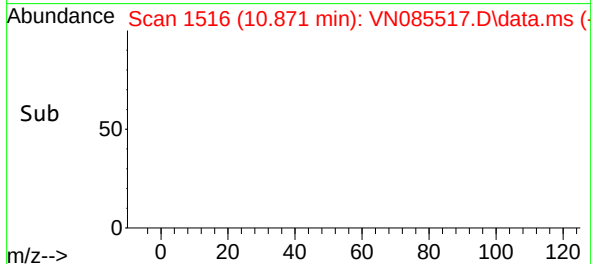
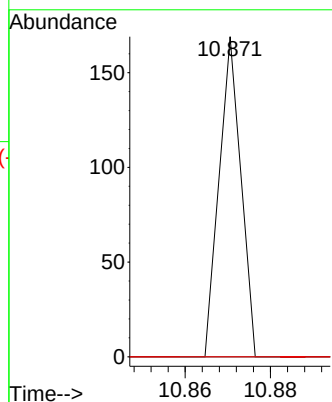


#56
Ethyl methacrylate
Concen: 1.947 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN085517.D
Acq: 27 Jan 2025 15:24

Instrument :
MSVOA_N
ClientSampleId :

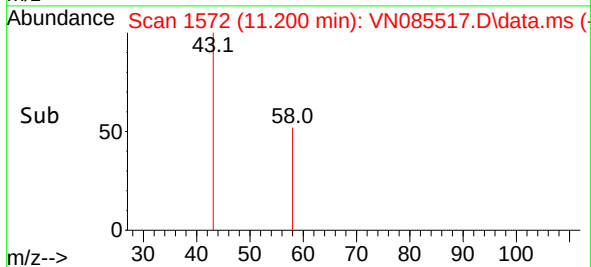
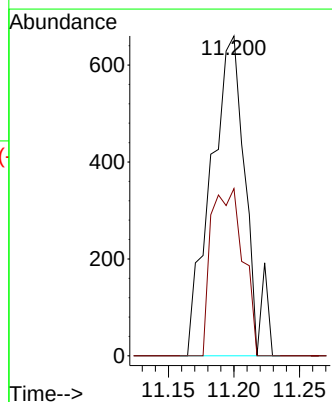
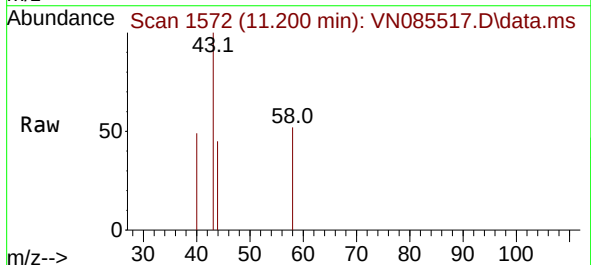


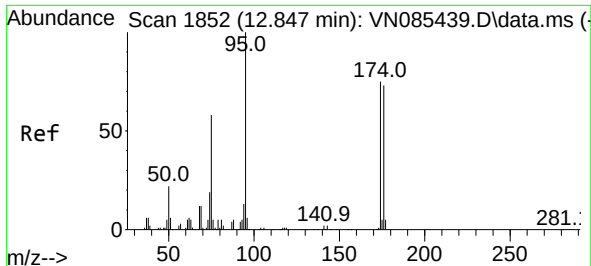
Tgt Ion: 69 Resp: 60
Ion Ratio Lower Upper
69 100
41 0.0 54.6 82.0#
39 0.0 32.4 48.6#



#59
2-Hexanone
Concen: 0.606 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.012 min
Lab File: VN085517.D
Acq: 27 Jan 2025 15:24

Tgt Ion: 43 Resp: 1218
Ion Ratio Lower Upper
43 100
58 48.1 26.2 78.6

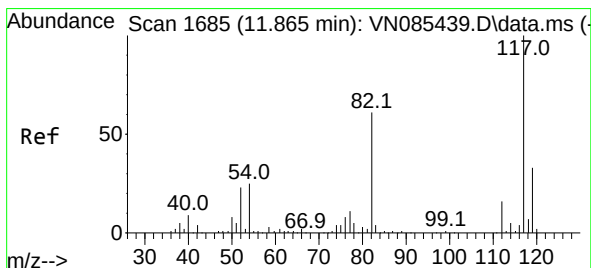
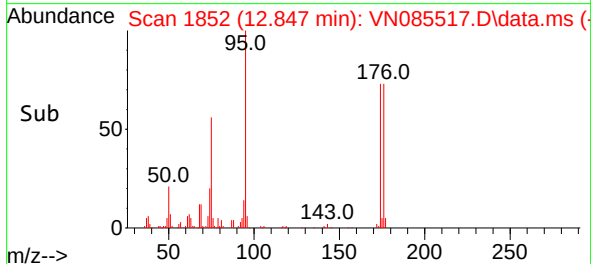
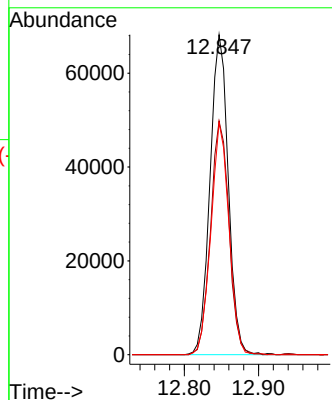
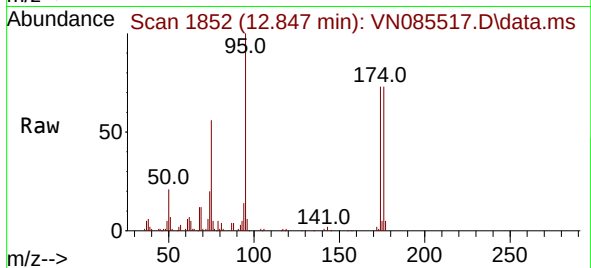




#62
4-Bromofluorobenzene
Concen: 44.221 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085517.D
Acq: 27 Jan 2025 15:24

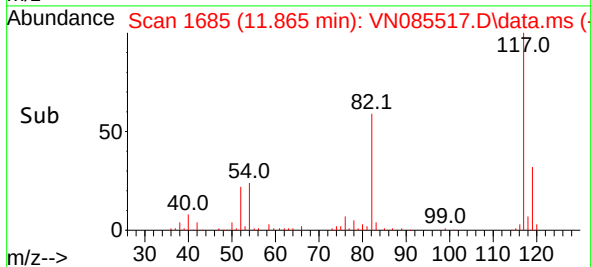
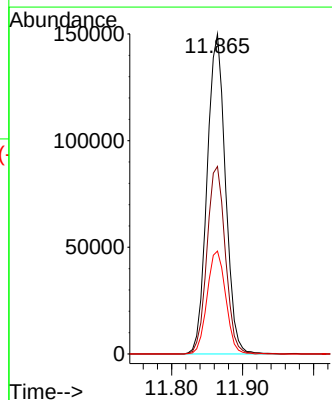
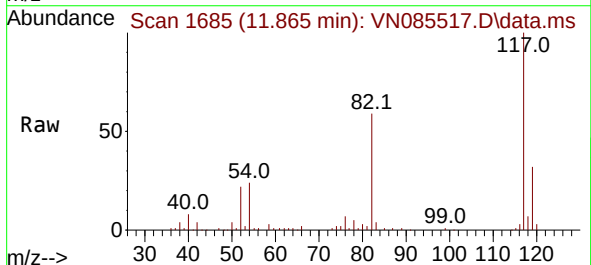
Instrument :
MSVOA_N
ClientSampleId :

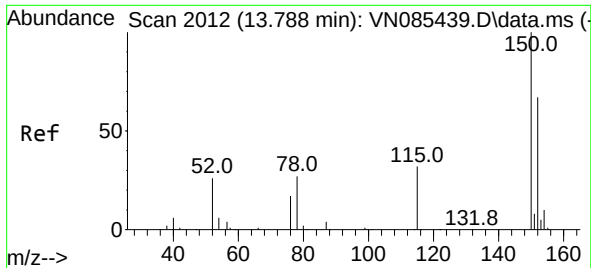
Tgt Ion: 95 Resp: 116641
Ion Ratio Lower Upper
95 100
174 73.8 0.0 145.0
176 71.6 0.0 142.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN085517.D
Acq: 27 Jan 2025 15:24

Tgt Ion: 117 Resp: 268752
Ion Ratio Lower Upper
117 100
82 58.6 48.6 72.8
119 32.1 26.6 39.8

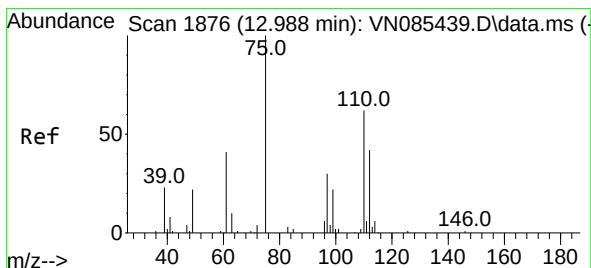
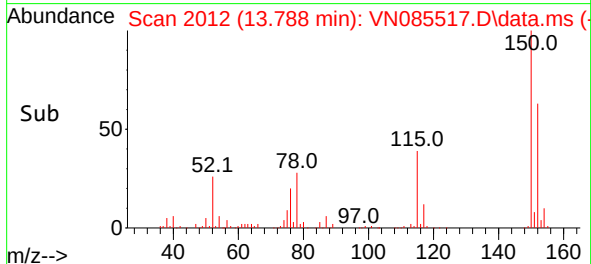
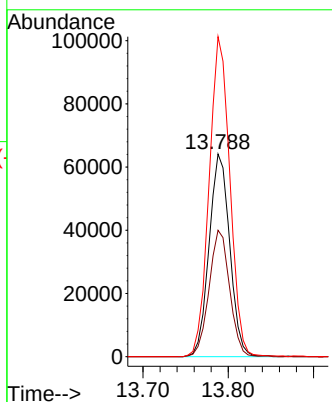
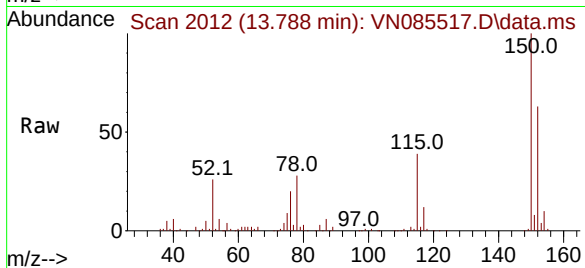




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.788 min Scan# 20
 Delta R.T. -0.000 min
 Lab File: VN085517.D
 Acq: 27 Jan 2025 15:24

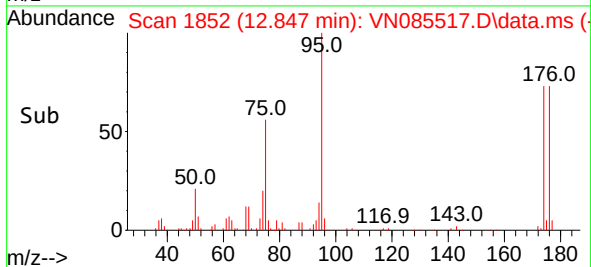
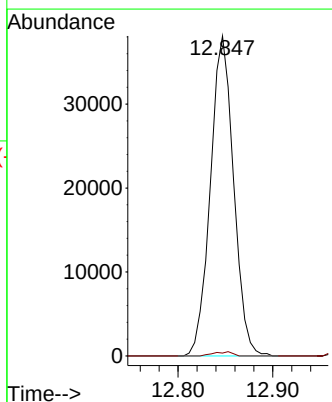
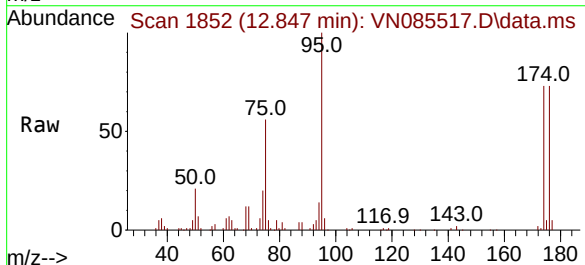
Instrument :
 MSVOA_N
 ClientSampleId :

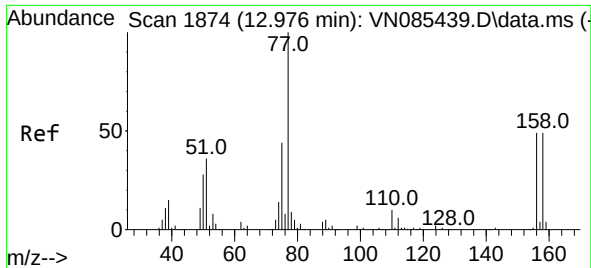
Tgt Ion:152 Resp: 108053
 Ion Ratio Lower Upper
 152 100
 115 62.1 31.1 93.3
 150 158.5 0.0 343.6



#76
 1,2,3-Trichloropropane
 Concen: 29.568 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. -0.141 min
 Lab File: VN085517.D
 Acq: 27 Jan 2025 15:24

Tgt Ion: 75 Resp: 64937
 Ion Ratio Lower Upper
 75 100
 77 1.1 109.7 329.2#

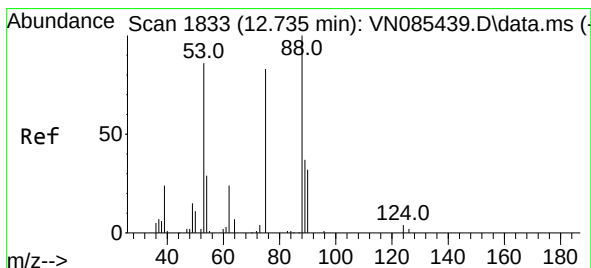
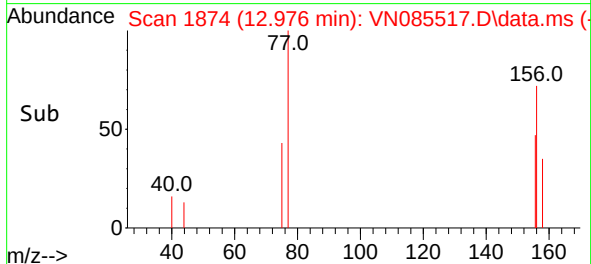
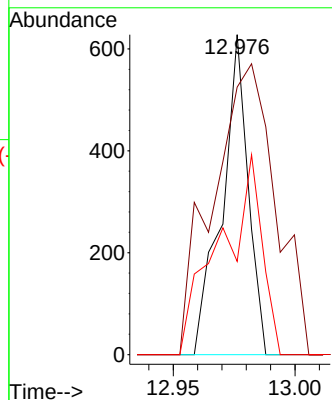
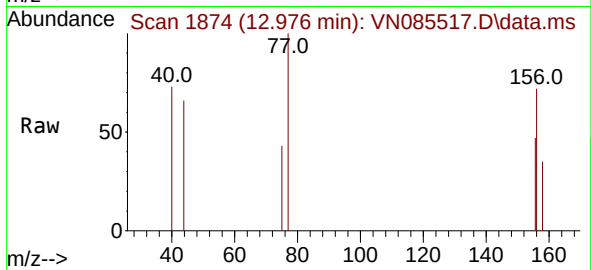




#77
Bromobenzene
Concen: 0.247 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. -0.000 min
Lab File: VN085517.D
Acq: 27 Jan 2025 15:24

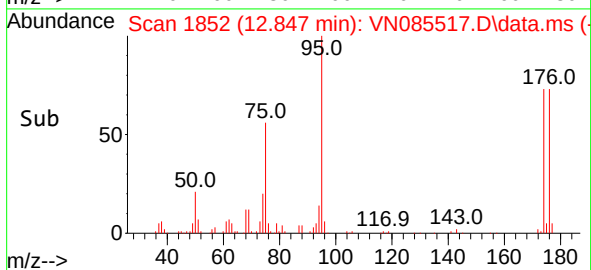
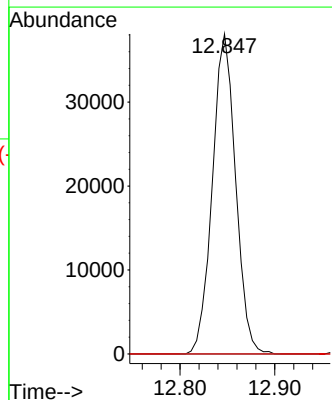
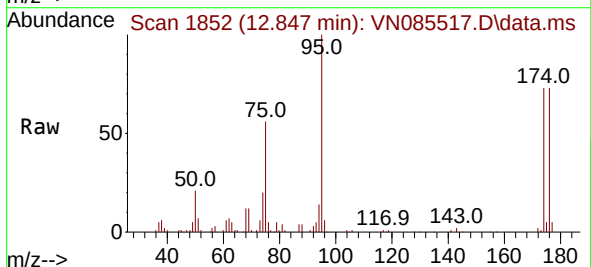
Instrument :
MSVOA_N
ClientSampleId :

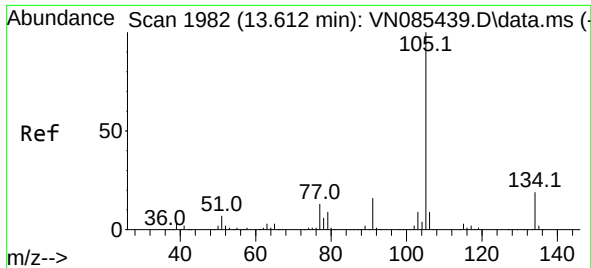
Tgt Ion:156 Resp: 470
Ion Ratio Lower Upper
156 100
77 217.4 114.1 342.4
158 99.4 48.9 146.8



#81
trans-1,4-Dichloro-2-butene
Concen: 79.998 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN085517.D
Acq: 27 Jan 2025 15:24

Tgt Ion: 75 Resp: 64937
Ion Ratio Lower Upper
75 100
53 0.0 95.6 143.4#
89 0.0 37.0 55.6#

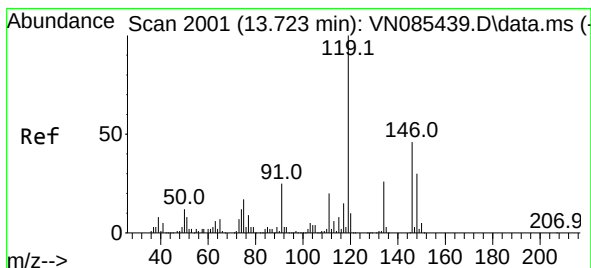
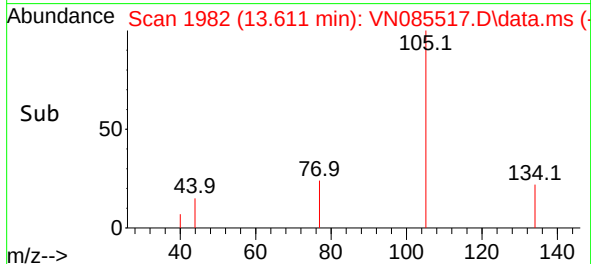
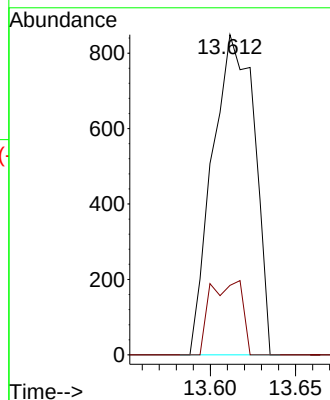
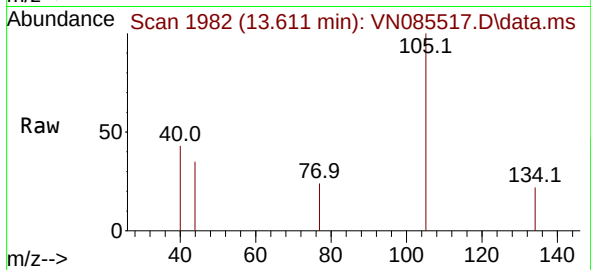




#85
 sec-Butylbenzene
 Concen: 0.208 ug/l
 RT: 13.611 min Scan# 1982
 Delta R.T. -0.001 min
 Lab File: VN085517.D
 Acq: 27 Jan 2025 15:24

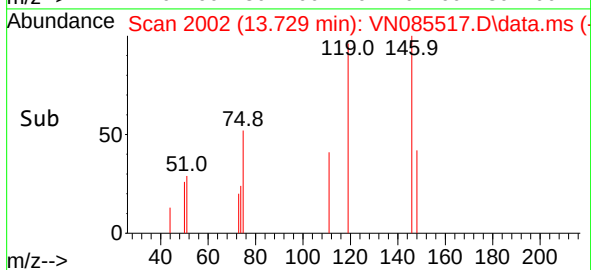
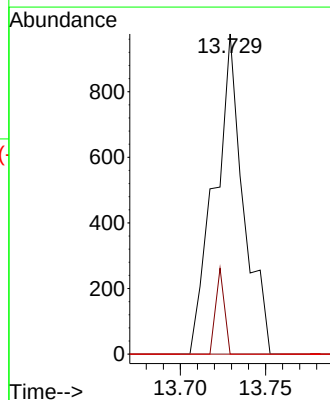
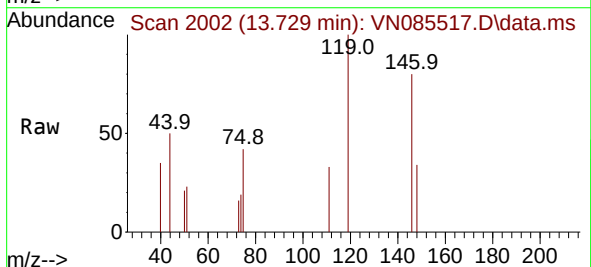
Instrument :
 MSVOA_N
 ClientSampleId :

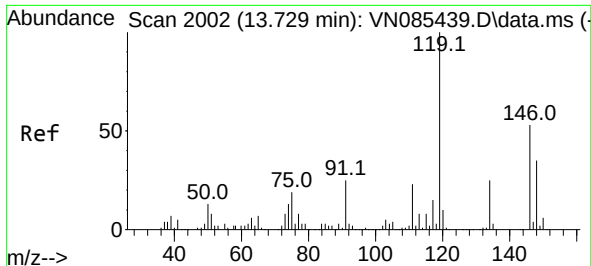
Tgt Ion:105 Resp: 1457
 Ion Ratio Lower Upper
 105 100
 134 17.6 9.7 28.9



#86
 p-Isopropyltoluene
 Concen: 0.230 ug/l
 RT: 13.729 min Scan# 2002
 Delta R.T. 0.006 min
 Lab File: VN085517.D
 Acq: 27 Jan 2025 15:24

Tgt Ion:119 Resp: 1144
 Ion Ratio Lower Upper
 119 100
 134 8.0 12.7 38.0#
 91 0.0 12.7 38.1#





#87

1,3-Dichlorobenzene

Concen: 0.302 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.000 min

Lab File: VN085517.D

Acq: 27 Jan 2025 15:24

Instrument :

MSVOA_N

ClientSampleId :

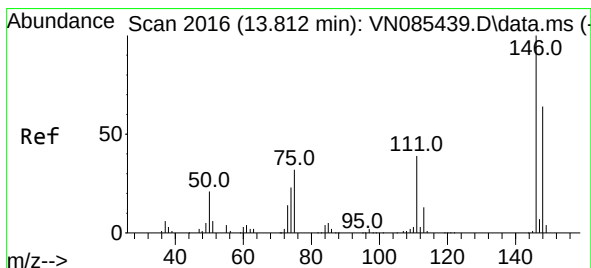
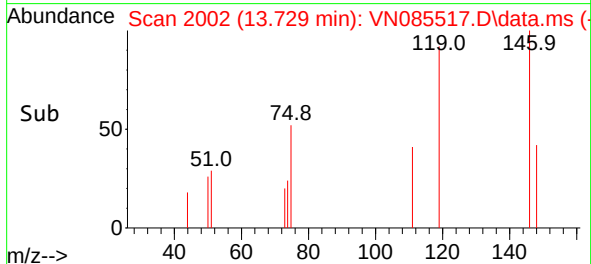
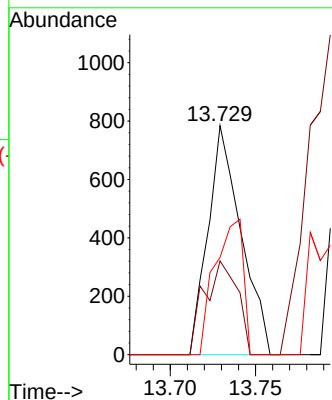
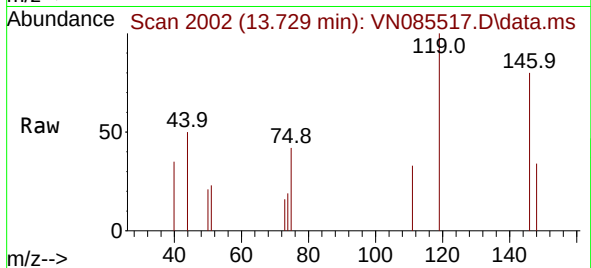
Tgt Ion:146 Resp: 1058

Ion Ratio Lower Upper

146 100

111 40.7 21.4 64.3

148 50.6 32.3 96.9



#88

1,4-Dichlorobenzene

Concen: 0.291 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.082 min

Lab File: VN085517.D

Acq: 27 Jan 2025 15:24

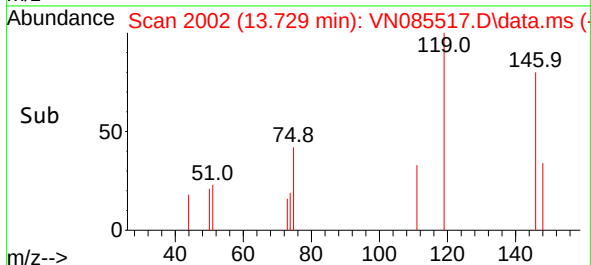
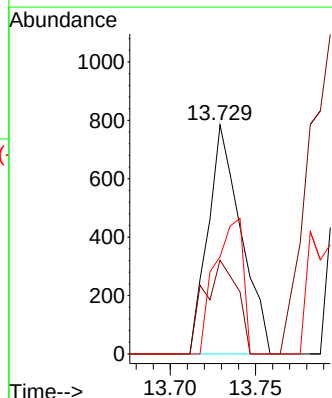
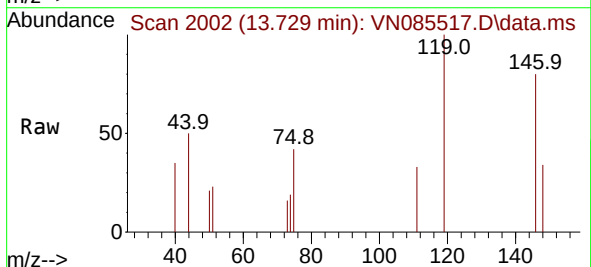
Tgt Ion:146 Resp: 1058

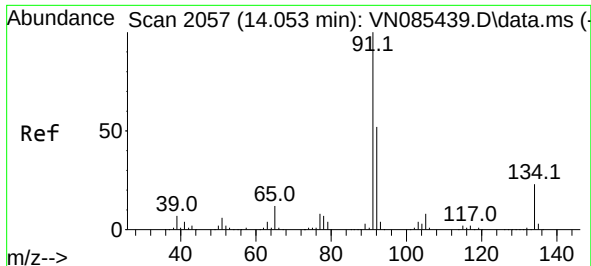
Ion Ratio Lower Upper

146 100

111 40.7 21.3 63.7

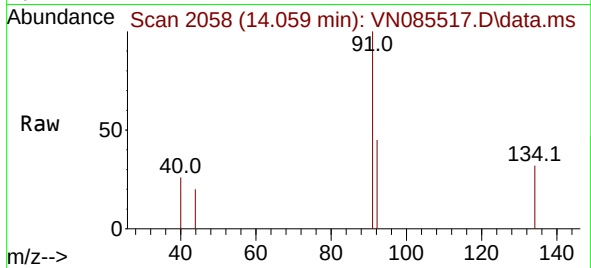
148 50.6 32.4 97.0



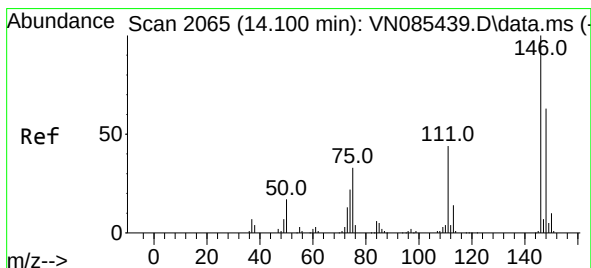
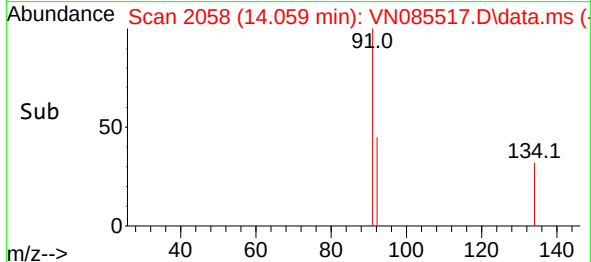
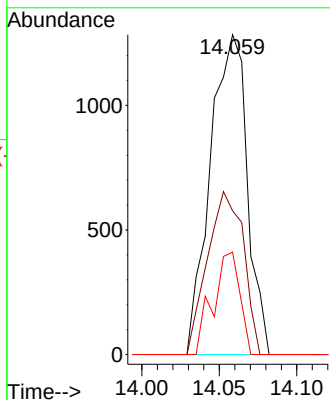


#89
n-Butylbenzene
Concen: 0.423 ug/l
RT: 14.059 min Scan# 2058
Delta R.T. 0.006 min
Lab File: VN085517.D
Acq: 27 Jan 2025 15:24

Instrument :
MSVOA_N
ClientSampleId :

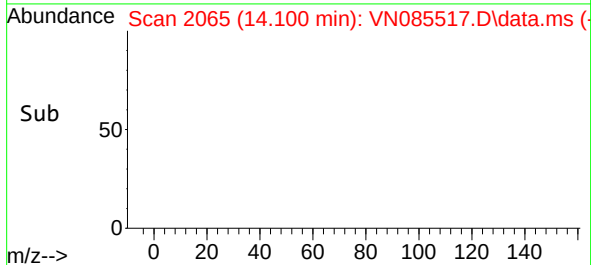
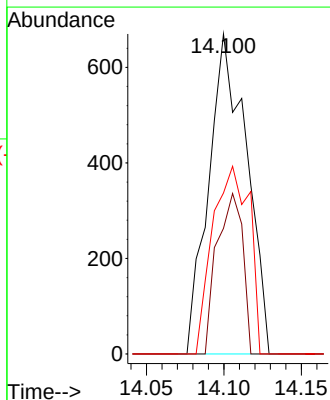
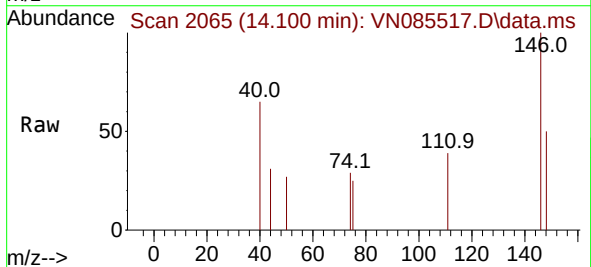


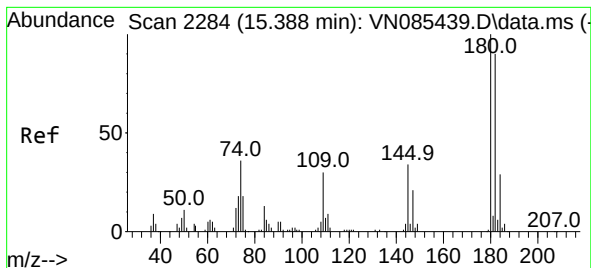
Tgt Ion: 91 Resp: 2130
Ion Ratio Lower Upper
91 100
92 49.6 25.8 77.3
134 23.1 11.7 35.1



#91
1,2-Dichlorobenzene
Concen: 0.325 ug/l
RT: 14.100 min Scan# 2065
Delta R.T. -0.000 min
Lab File: VN085517.D
Acq: 27 Jan 2025 15:24

Tgt Ion:146 Resp: 1138
Ion Ratio Lower Upper
146 100
111 33.9 21.7 65.1
148 56.9 31.4 94.2





#93

1,2,4-Trichlorobenzene

Concen: 1.198 ug/l

RT: 15.394 min Scan# 21

Delta R.T. 0.006 min

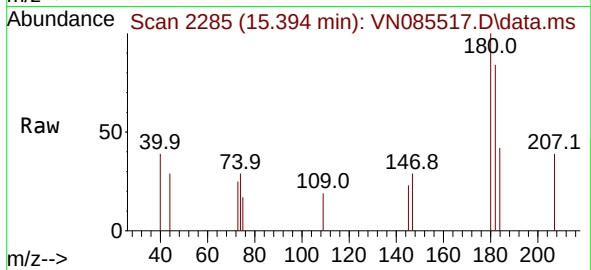
Lab File: VN085517.D

Acq: 27 Jan 2025 15:24

Instrument :

MSVOA_N

ClientSampleId :



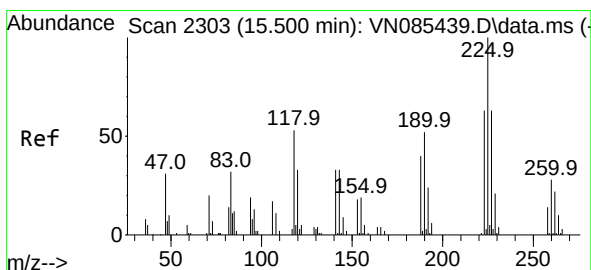
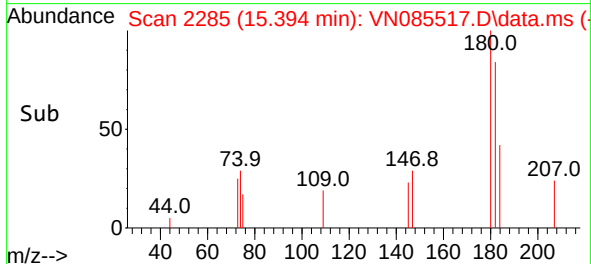
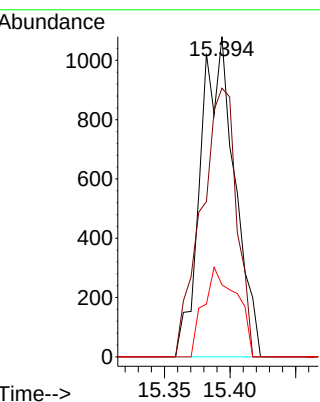
Tgt Ion:180 Resp: 1949

Ion Ratio Lower Upper

180 100

182 86.8 46.8 140.3

145 27.1 16.0 48.0



#94

Hexachlorobutadiene

Concen: 1.562 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. -0.000 min

Lab File: VN085517.D

Acq: 27 Jan 2025 15:24

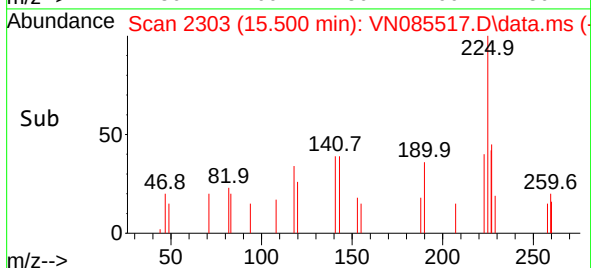
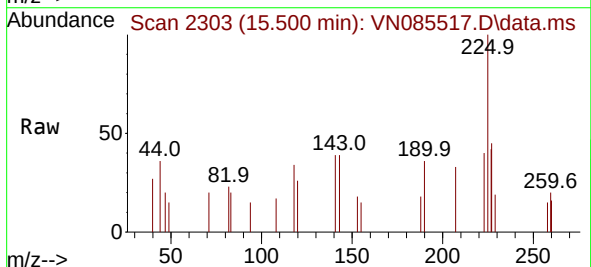
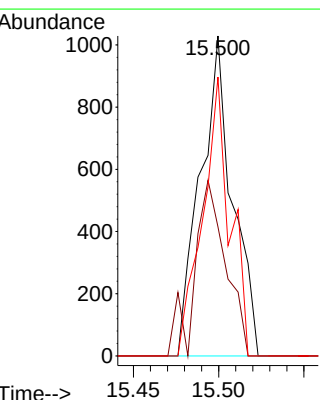
Tgt Ion:225 Resp: 1349

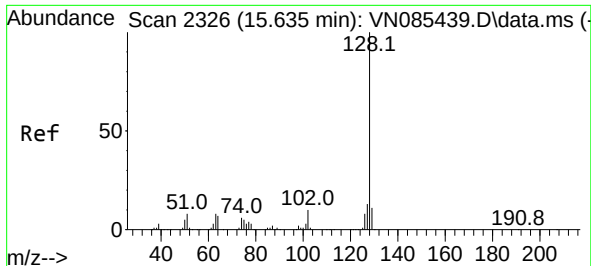
Ion Ratio Lower Upper

225 100

223 53.1 30.7 92.1

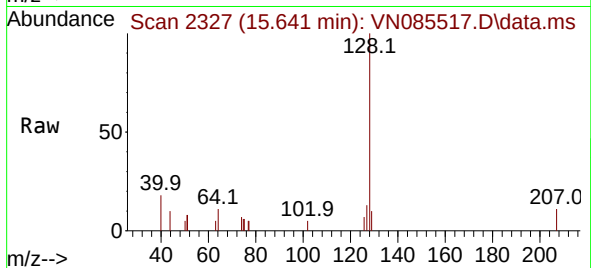
227 74.3 30.9 92.5



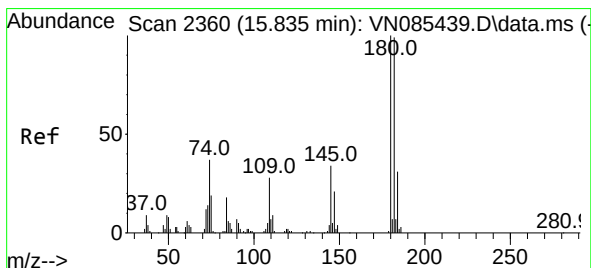
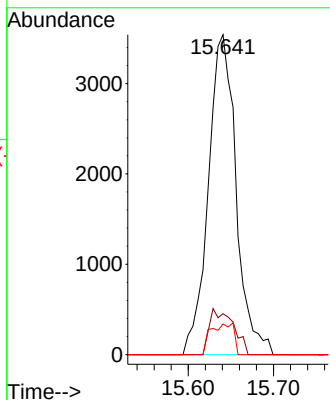
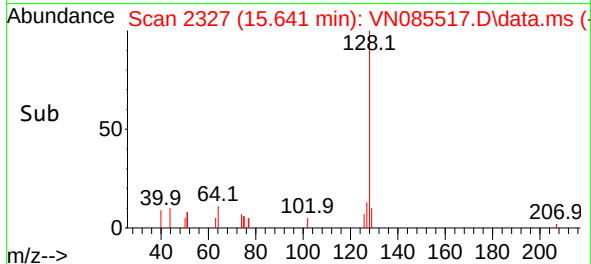


#95
Naphthalene
Concen: 1.653 ug/l
RT: 15.641 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN085517.D
Acq: 27 Jan 2025 15:24

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion:128 Resp: 8026
Ion Ratio Lower Upper
128 100
127 0.0 10.6 16.0#
129 8.1 8.8 13.2#



#96
1,2,3-Trichlorobenzene
Concen: 1.692 ug/l
RT: 15.823 min Scan# 2358
Delta R.T. -0.012 min
Lab File: VN085517.D
Acq: 27 Jan 2025 15:24

Tgt Ion:180 Resp: 2785
Ion Ratio Lower Upper
180 100
182 80.4 47.4 142.2
145 31.1 16.9 50.7

