

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022725\
 Data File : VN085881.D
 Acq On : 27 Feb 2025 10:53
 Operator : JC\MD
 Sample : VN0227MBL01
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0227MBL01

Quant Time: Feb 28 01:56:09 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 2025
 Response via : Initial Calibration

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

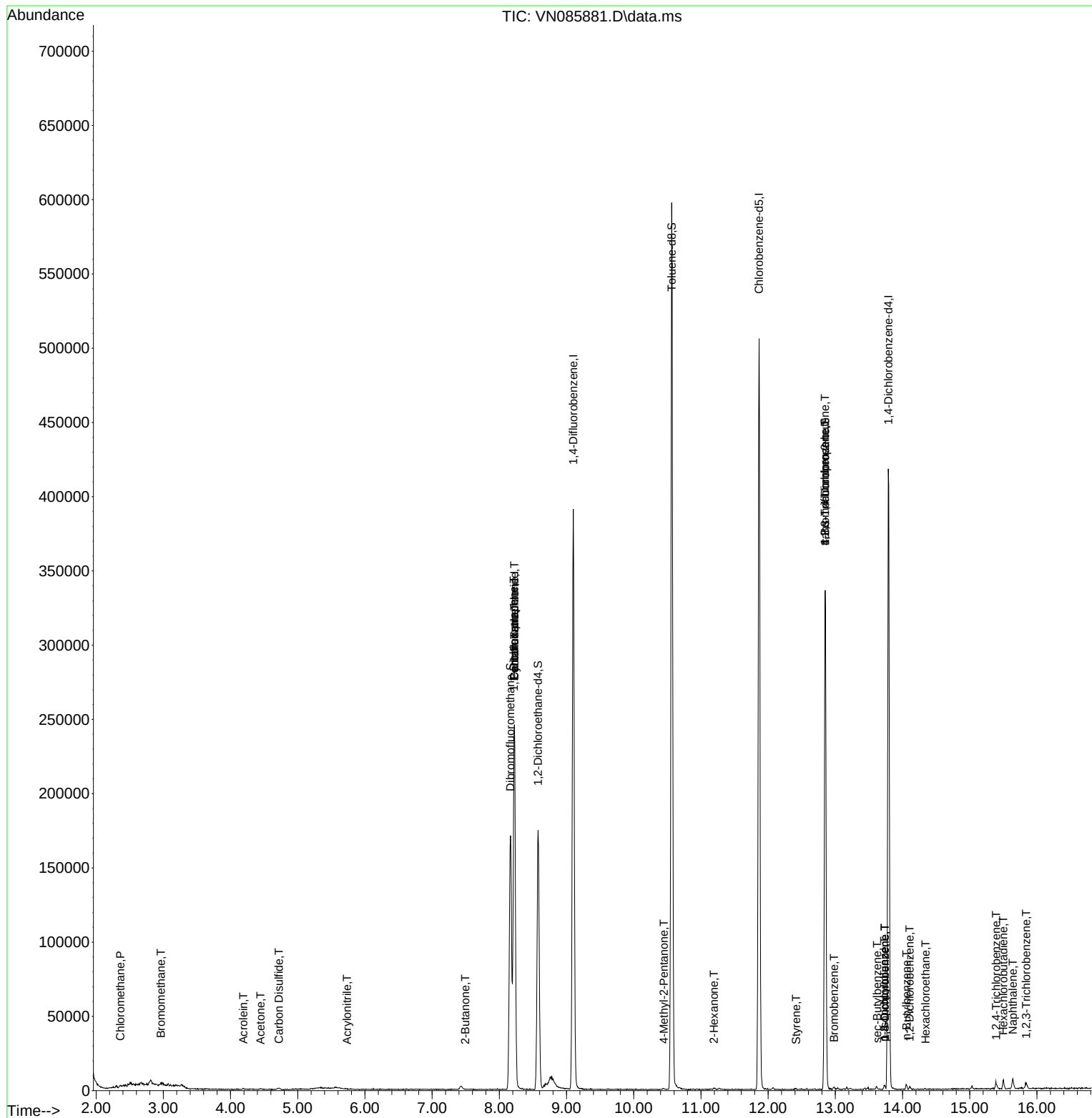
Internal Standards						
1) Pentafluorobenzene	8.224	168	179265	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	337379	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	305756	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	122242	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	142961	61.512	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 123.020%			
35) Dibromofluoromethane	8.165	113	128062	58.008	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 116.020%			
50) Toluene-d8	10.565	98	417746	52.010	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.020%			
62) 4-Bromofluorobenzene	12.847	95	121363	45.860	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 91.720%			
Target Compounds						
					Qvalue	
3) Chloromethane	2.359	50	777	0.318	ug/l #	79
5) Bromomethane	2.965	94	577	0.348	ug/l #	48
13) Acrolein	4.189	56	273	0.644	ug/l #	73
15) Acrylonitrile	5.736	53	465	0.500	ug/l #	37
16) Acetone	4.448	43	599	0.815	ug/l #	40
17) Carbon Disulfide	4.718	76	2437	0.418	ug/l #	75
25) 2-Butanone	7.494	43	262	0.242	ug/l #	45
31) Cyclohexane	8.224	56	3690	1.112	ug/l #	19
36) 1,1-Dichloropropene	8.218	75	14537	4.653	ug/l #	49
38) Carbon Tetrachloride	8.224	117	18668	5.029	ug/l #	20
43) Isopropyl Acetate	8.688	43	1960	Below Cal	#	53
51) 4-Methyl-2-Pentanone	10.447	43	799	0.322	ug/l #	33
59) 2-Hexanone	11.194	43	1119	0.656	ug/l	76
70) Styrene	12.418	104	398	0.643	ug/l #	59
76) 1,2,3-Trichloropropane	12.847	75	58789	21.650	ug/l #	1
77) Bromobenzene	12.982	156	514	0.227	ug/l	73
81) trans-1,4-Dichloro-2-b...	12.847	75	58789	63.170	ug/l #	13
85) sec-Butylbenzene	13.623	105	1660	0.205	ug/l	82
86) p-Isopropyltoluene	13.729	119	1197	0.798	ug/l #	79
87) 1,3-Dichlorobenzene	13.735	146	1065	0.251	ug/l	97
88) 1,4-Dichlorobenzene	13.735	146	1065	0.245	ug/l	98
89) n-Butylbenzene	14.059	91	2361	0.410	ug/l	97
90) Hexachloroethane	14.341	117	338	0.220	ug/l #	14
91) 1,2-Dichlorobenzene	14.106	146	1035	0.254	ug/l	93
93) 1,2,4-Trichlorobenzene	15.394	180	2024	1.042	ug/l	84
94) Hexachlorobutadiene	15.500	225	1355	1.148	ug/l	98
95) Naphthalene	15.641	128	7091	1.330	ug/l #	90
96) 1,2,3-Trichlorobenzene	15.841	180	2077	1.065	ug/l	91

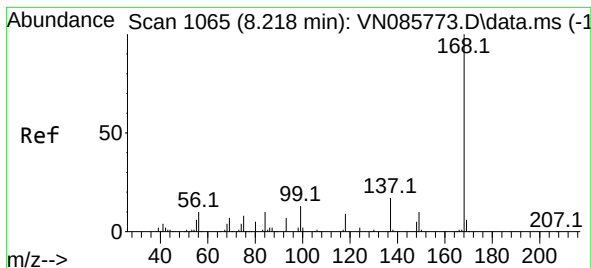
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Feb 19 03:43:32 2025
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.224 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN085881.D

Acq: 27 Feb 2025 10:53

Instrument :

MSVOA_N

ClientSampleId :

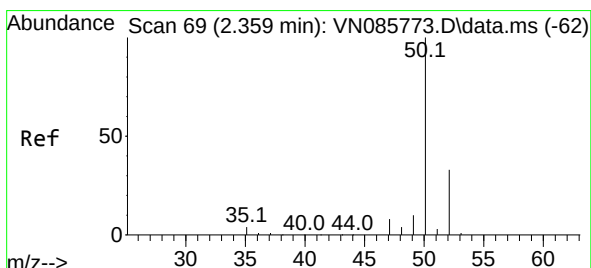
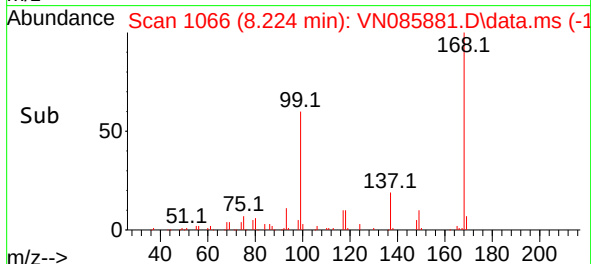
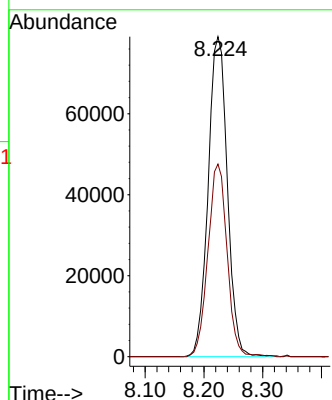
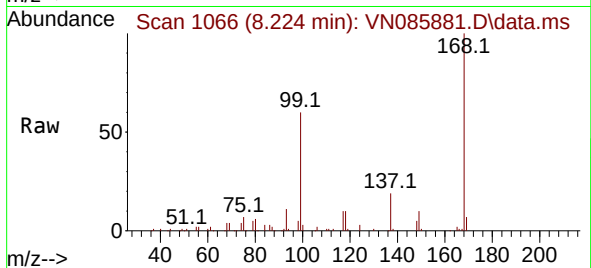
VN0227MBL01

Tgt Ion:168 Resp: 179265

Ion Ratio Lower Upper

168 100

99 60.2 47.9 71.9



#3

Chloromethane

Concen: 0.318 ug/l

RT: 2.359 min Scan# 69

Delta R.T. 0.000 min

Lab File: VN085881.D

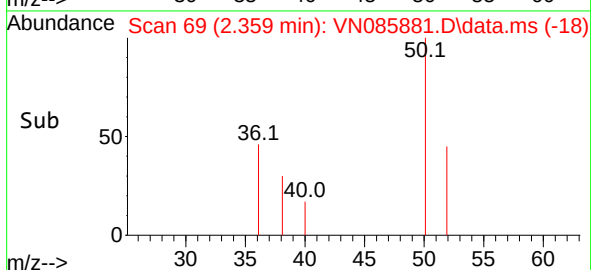
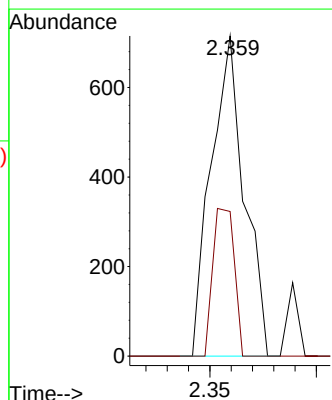
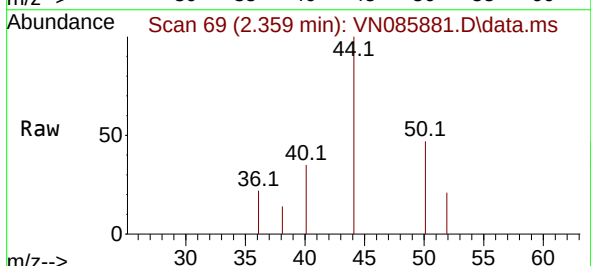
Acq: 27 Feb 2025 10:53

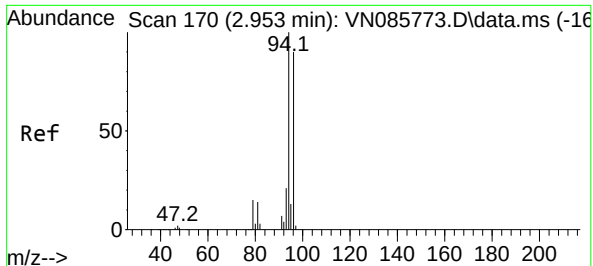
Tgt Ion: 50 Resp: 777

Ion Ratio Lower Upper

50 100

52 45.2 26.7 40.1#

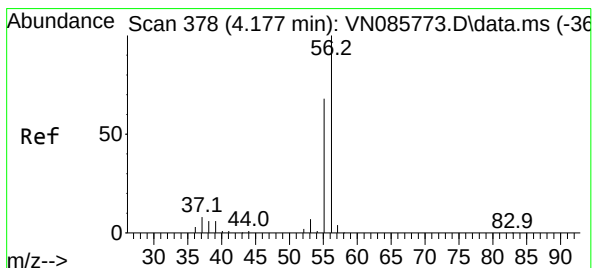
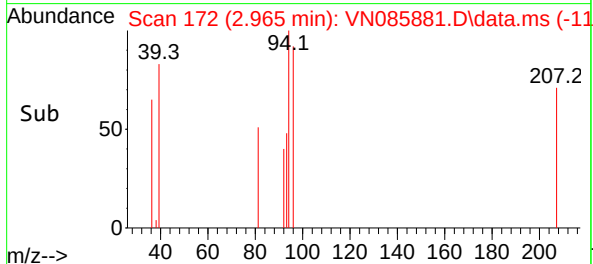
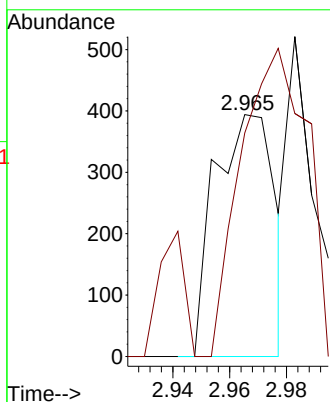
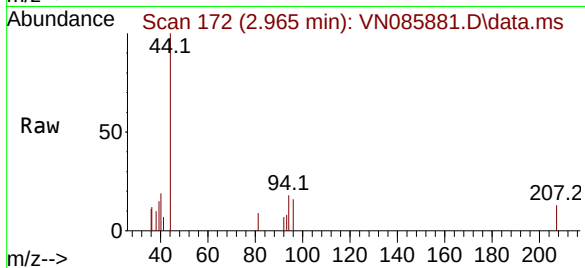




#5
Bromomethane
Concen: 0.348 ug/l
RT: 2.965 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN085881.D
Acq: 27 Feb 2025 10:53

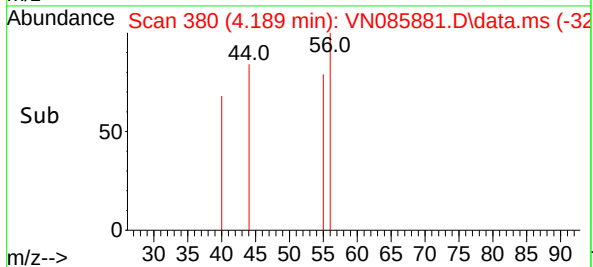
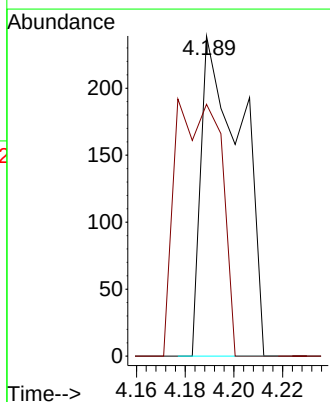
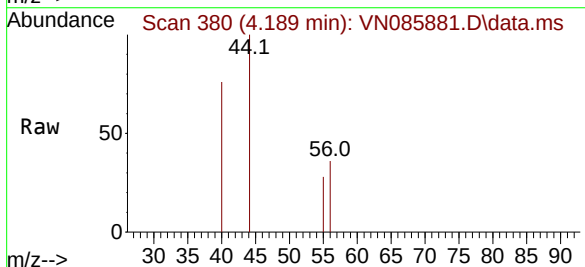
Instrument :
MSVOA_N
ClientSampleId :
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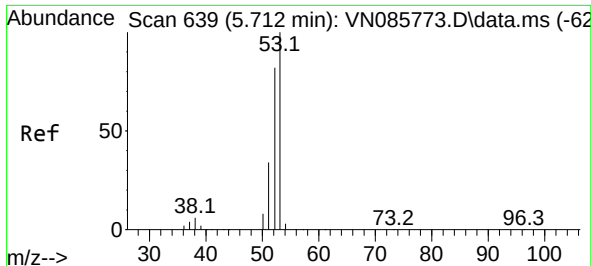
Tgt Ion: 94 Resp: 577
Ion Ratio Lower Upper
94 100
96 40.6 71.7 107.5#



#13
Acrolein
Concen: 0.644 ug/l
RT: 4.189 min Scan# 380
Delta R.T. 0.012 min
Lab File: VN085881.D
Acq: 27 Feb 2025 10:53

Tgt Ion: 56 Resp: 273
Ion Ratio Lower Upper
56 100
55 91.2 55.3 82.9#

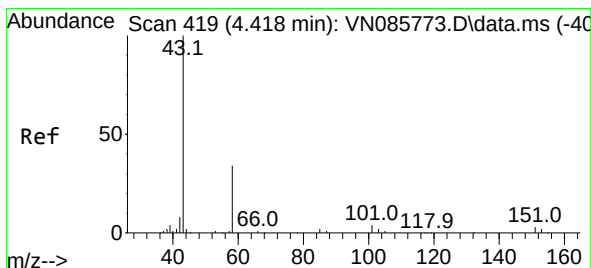
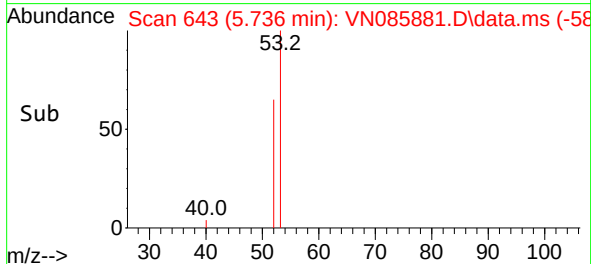
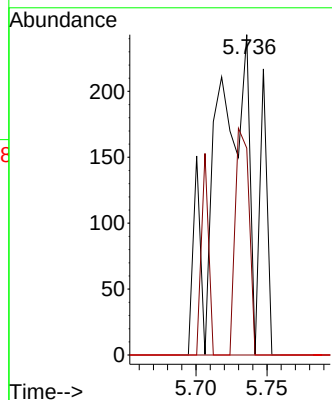
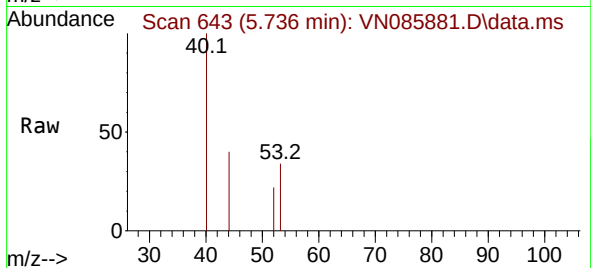




#15
Acrylonitrile
Concen: 0.500 ug/l
RT: 5.736 min Scan# 643
Delta R.T. 0.024 min
Lab File: VN085881.D
Acq: 27 Feb 2025 10:53

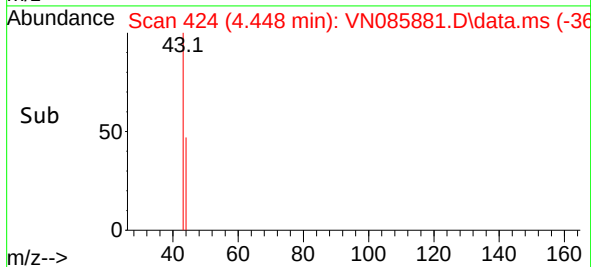
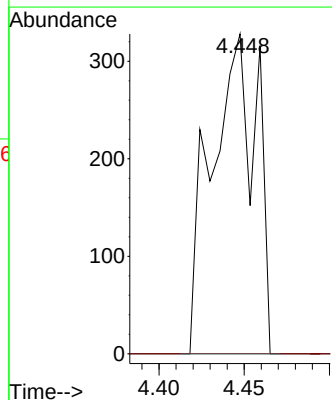
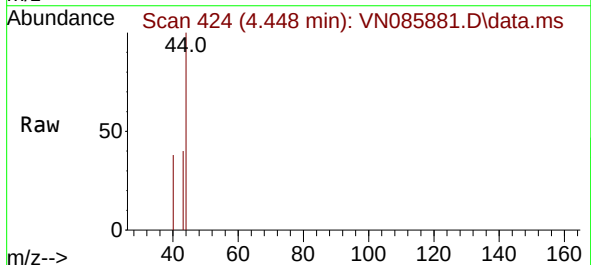
Instrument :
MSVOA_N
ClientSampleId :
VN0227MBL01

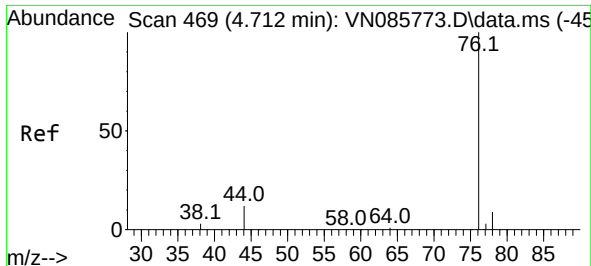
Tgt Ion: 53 Resp: 465
Ion Ratio Lower Upper
53 100
52 24.9 65.8 98.6#
51 0.0 28.6 42.8#



#16
Acetone
Concen: 0.815 ug/l
RT: 4.448 min Scan# 424
Delta R.T. 0.029 min
Lab File: VN085881.D
Acq: 27 Feb 2025 10:53

Tgt Ion: 43 Resp: 599
Ion Ratio Lower Upper
43 100
58 0.0 27.5 41.3#

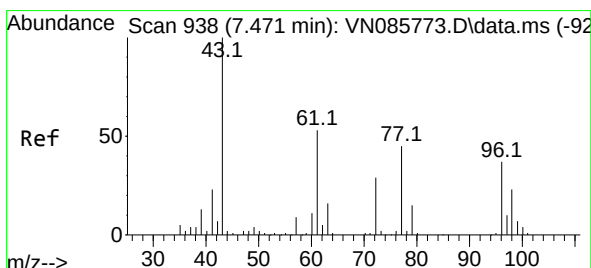
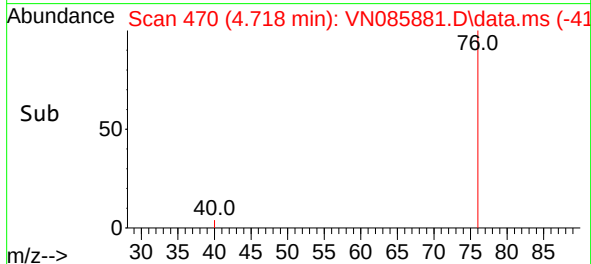
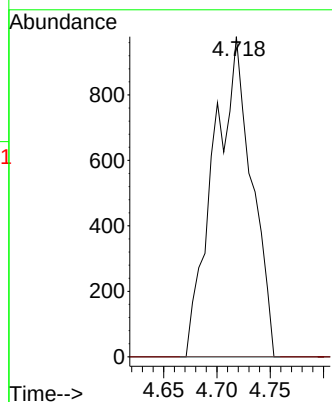
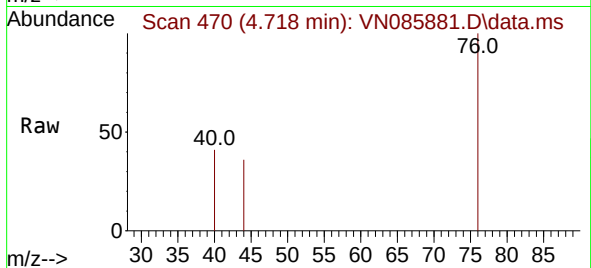




#17
Carbon Disulfide
Concen: 0.418 ug/l
RT: 4.718 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN085881.D
Acq: 27 Feb 2025 10:53

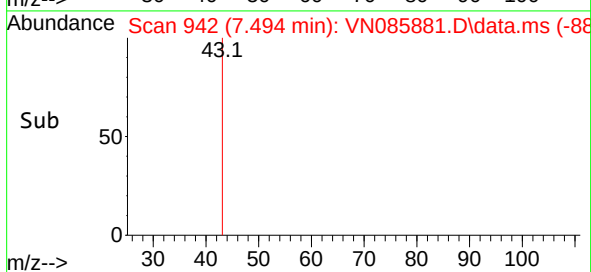
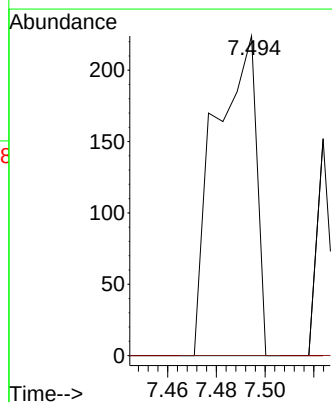
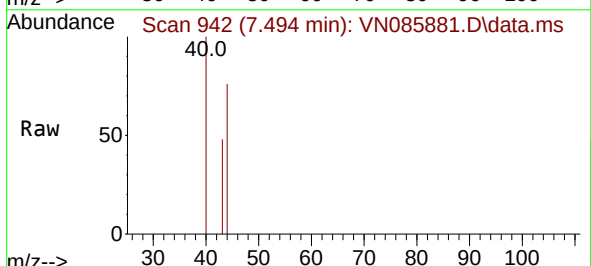
Instrument :
MSVOA_N
ClientSampleId :
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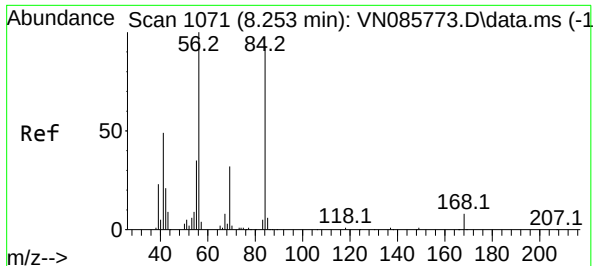
Tgt Ion: 76 Resp: 2437
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.0#



#25
2-Butanone
Concen: 0.242 ug/l
RT: 7.494 min Scan# 942
Delta R.T. 0.024 min
Lab File: VN085881.D
Acq: 27 Feb 2025 10:53

Tgt Ion: 43 Resp: 262
Ion Ratio Lower Upper
43 100
72 0.0 23.6 35.4#

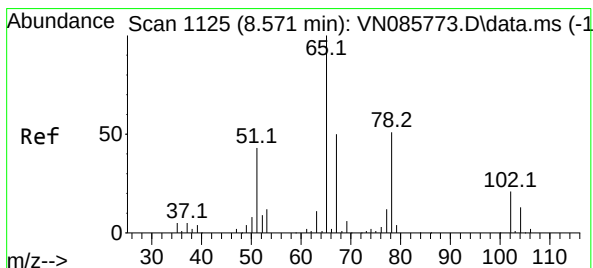
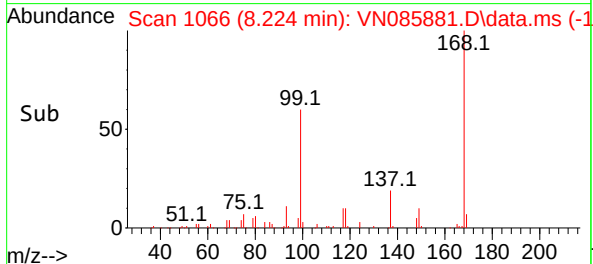
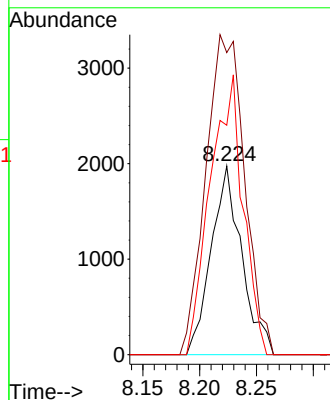
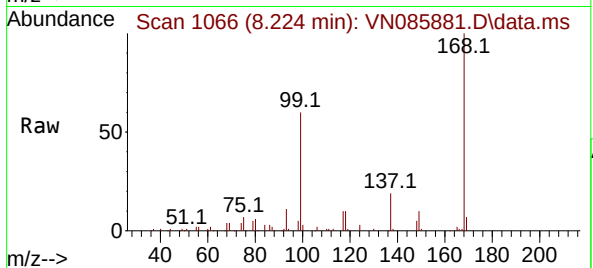




#31
Cyclohexane
Concen: 1.112 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.029 min
Lab File: VN085881.D
Acq: 27 Feb 2025 10:53

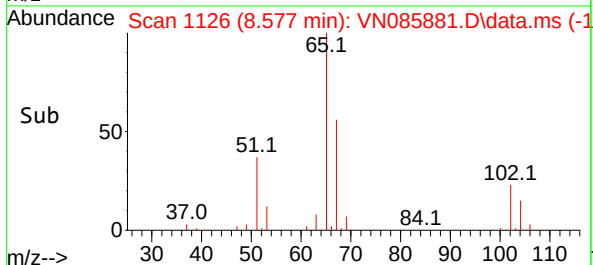
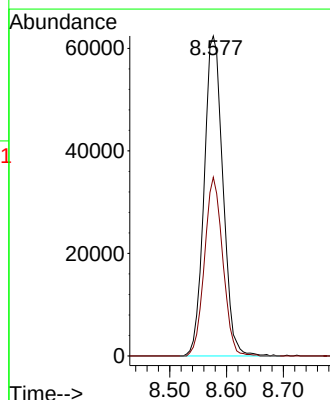
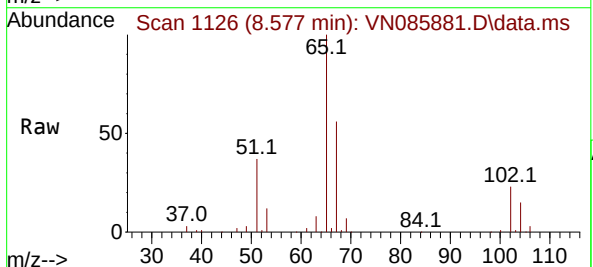
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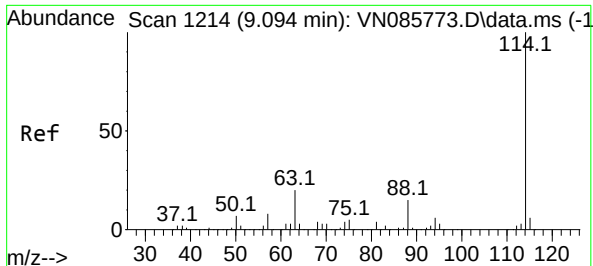
Tgt Ion: 56 Resp: 3690
Ion Ratio Lower Upper
56 100
69 160.2 25.8 38.6#
84 121.7 74.5 111.7#



#33
1,2-Dichloroethane-d4
Concen: 61.512 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.006 min
Lab File: VN085881.D
Acq: 27 Feb 2025 10:53

Tgt Ion: 65 Resp: 142961
Ion Ratio Lower Upper
65 100
67 54.3 0.0 106.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN085881.D

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Instrument :

MSVOA_N

ClientSampleId :

VN0227MBL01

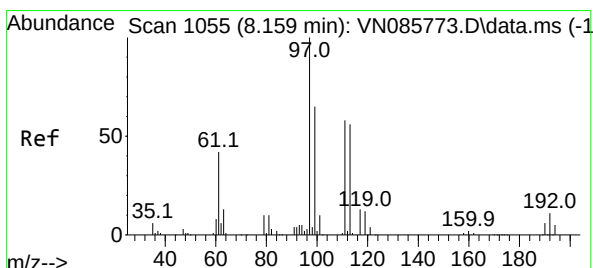
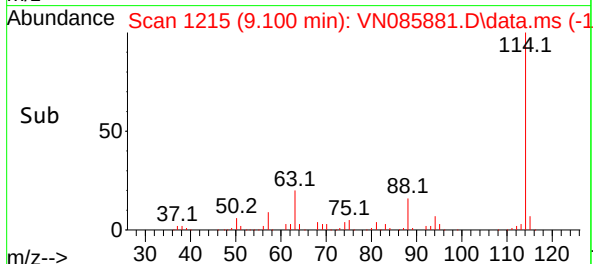
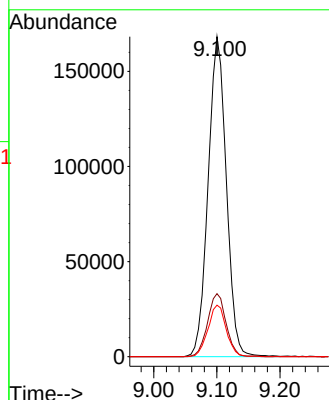
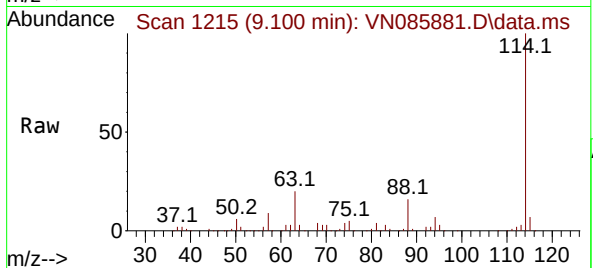
Tgt Ion:114 Resp: 337379

Ion Ratio Lower Upper

114 100

63 19.7 0.0 39.2

88 16.1 0.0 30.0



#35

Dibromofluoromethane

Concen: 58.008 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN085881.D

Acq: 27 Feb 2025 10:53

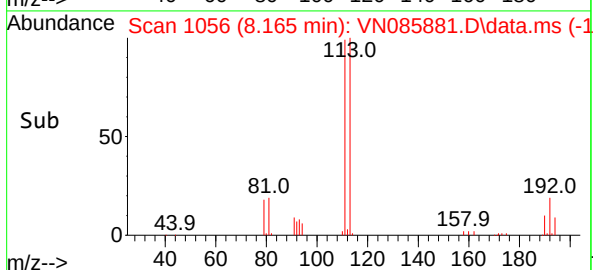
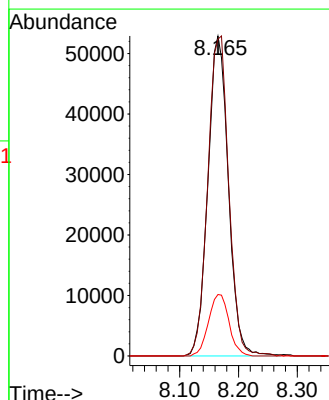
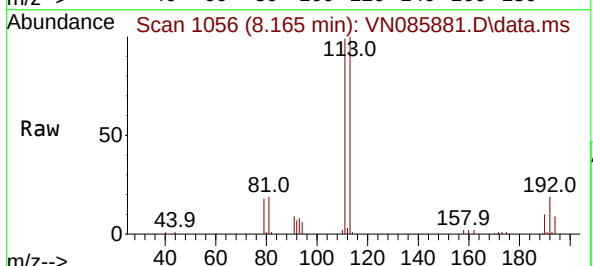
Tgt Ion:113 Resp: 128062

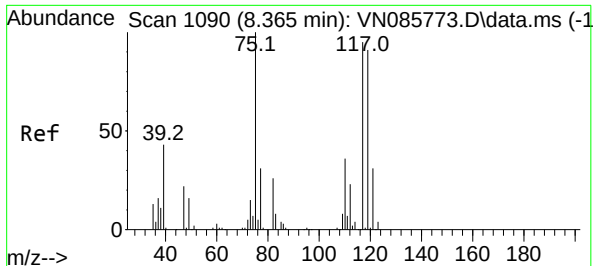
Ion Ratio Lower Upper

113 100

111 102.1 82.2 123.4

192 19.2 14.7 22.1





#36

1,1-Dichloropropene

Concen: 4.653 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.147 min

Lab File: VN085881.D

Acq: 27 Feb 2025 10:53

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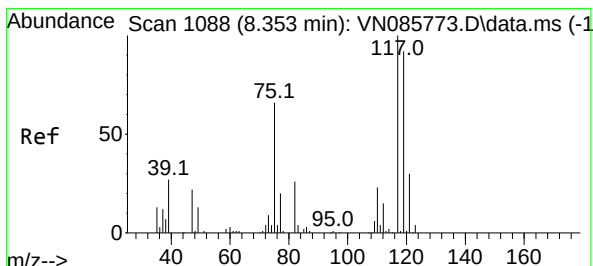
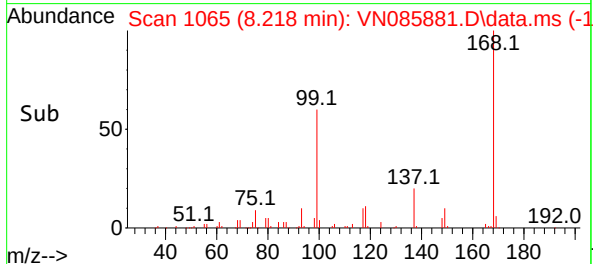
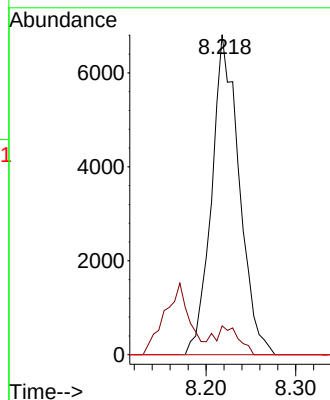
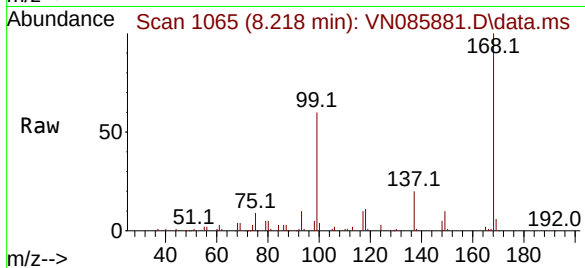
Tgt Ion: 75 Resp: 14537

Ion Ratio Lower Upper

75 100

110 7.8 17.3 52.0#

77 0.0 24.6 37.0#



#38

Carbon Tetrachloride

Concen: 5.029 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.129 min

Lab File: VN085881.D

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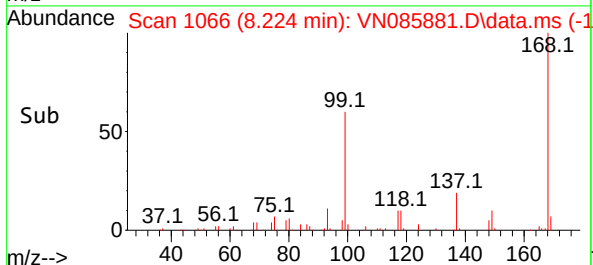
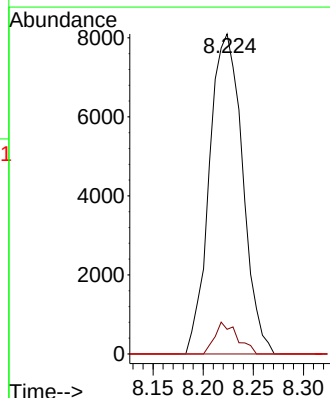
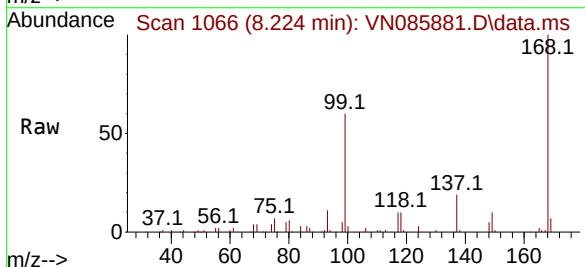
Tgt Ion: 117 Resp: 18668

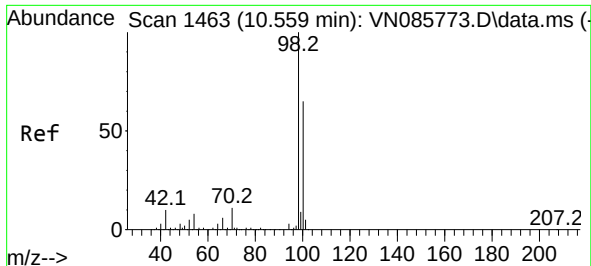
Ion Ratio Lower Upper

117 100

119 7.7 73.8 110.6#

121 0.0 24.3 36.5#

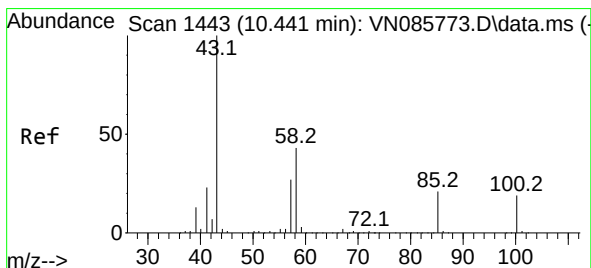
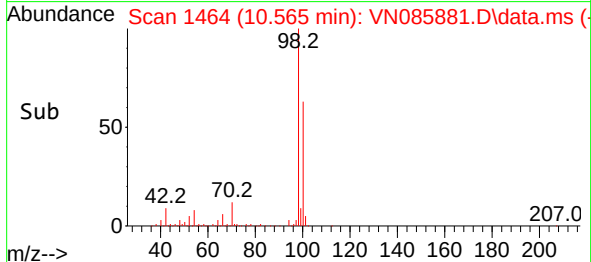
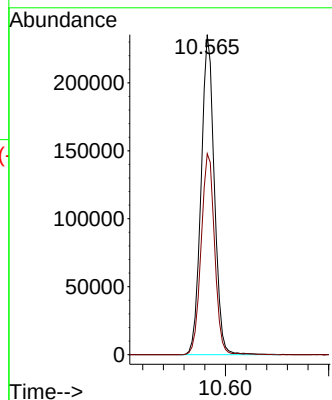
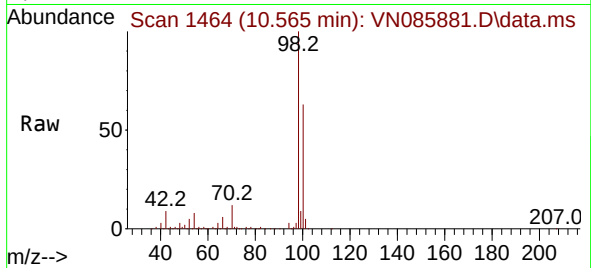




#50
Toluene-d8
Concen: 52.010 ug/l
RT: 10.565 min Scan# 1463
Delta R.T. 0.006 min
Lab File: VN085881.D
Acq: 27 Feb 2025 10:53

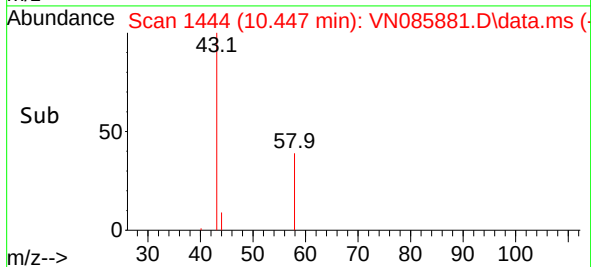
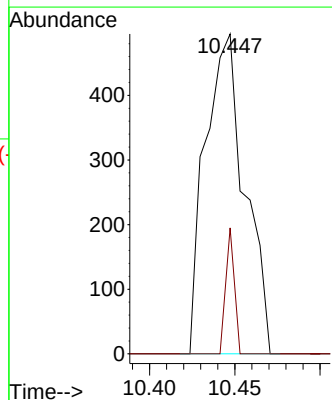
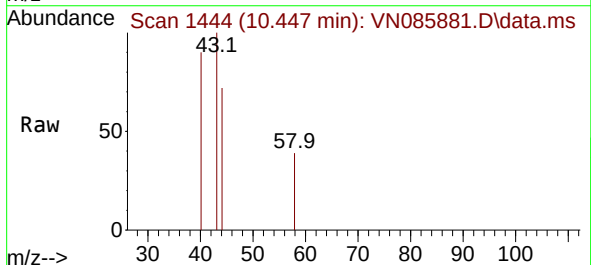
Instrument :
MSVOA_N
ClientSampleId :
VN0227MBL01

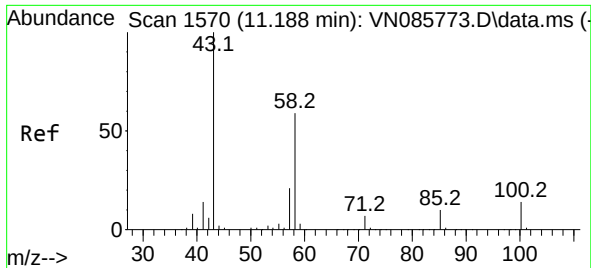
Tgt Ion: 98 Resp: 417746
Ion Ratio Lower Upper
98 100
100 64.2 52.1 78.1



#51
4-Methyl-2-Pentanone
Concen: 0.322 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.006 min
Lab File: VN085881.D
Acq: 27 Feb 2025 10:53

Tgt Ion: 43 Resp: 799
Ion Ratio Lower Upper
43 100
58 0.0 34.6 52.0#

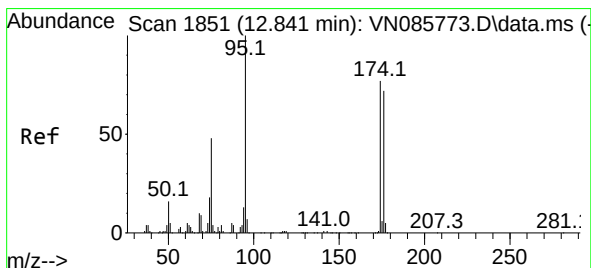
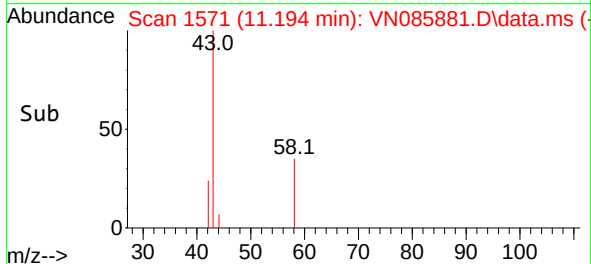
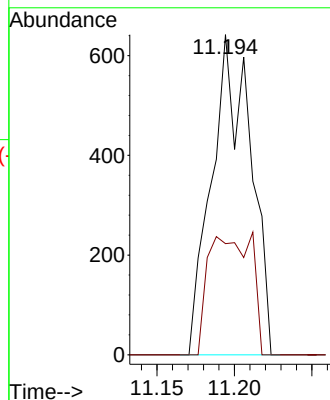
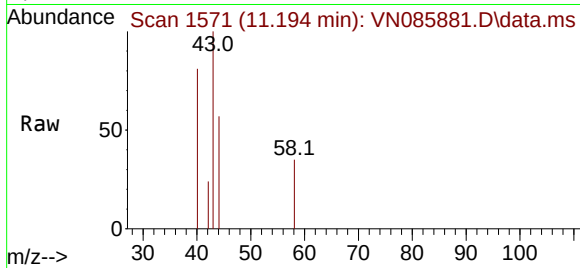




#59
2-Hexanone
Concen: 0.656 ug/l
RT: 11.194 min Scan# 1119
Delta R.T. 0.006 min
Lab File: VN085881.D
Acq: 27 Feb 2025 10:53

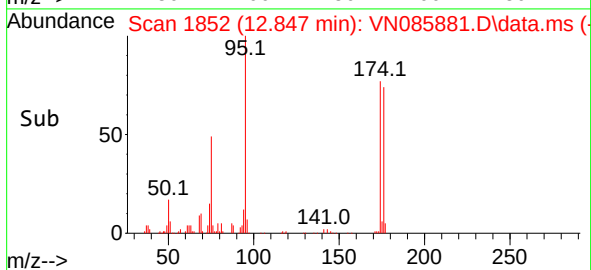
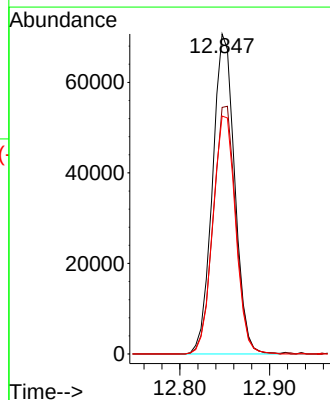
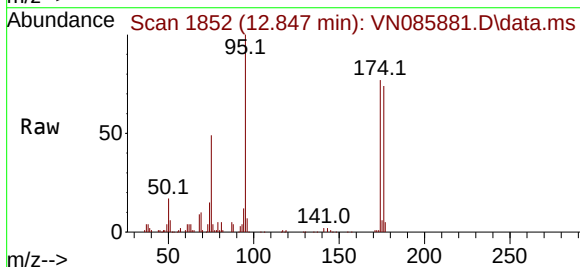
Instrument :
MSVOA_N
ClientSampleId :
VN0227MBL01

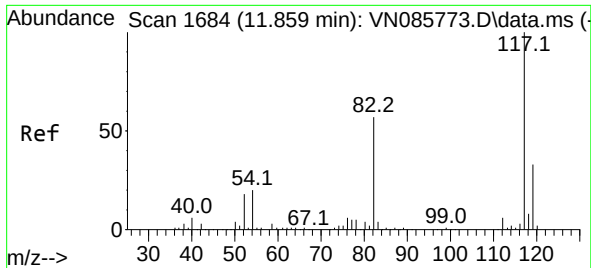
Tgt Ion:	43	Resp:	1119
Ion Ratio	Lower	Upper	
43	100		
58	41.6	29.8	89.5



#62
4-Bromofluorobenzene
Concen: 45.860 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.006 min
Lab File: VN085881.D
Acq: 27 Feb 2025 10:53

Tgt Ion:	95	Resp:	121363
Ion Ratio	Lower	Upper	
95	100		
174	79.1	0.0	152.4
176	76.4	0.0	146.6

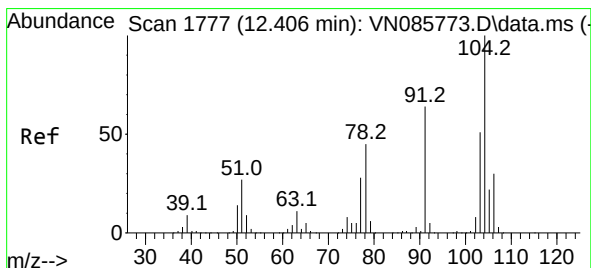
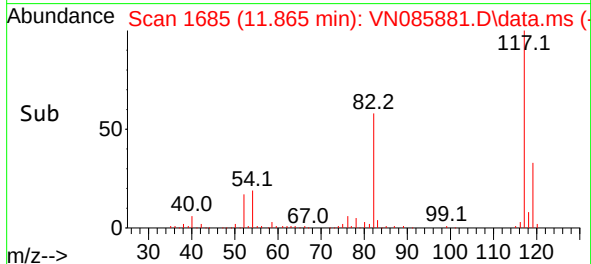
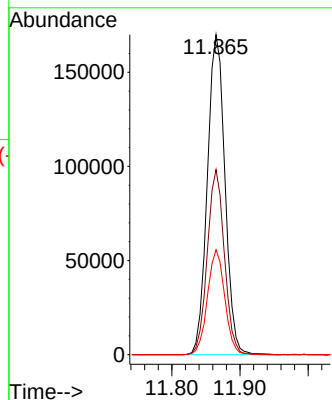
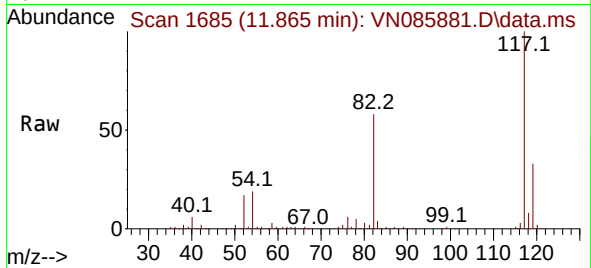




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. 0.006 min
Lab File: VN085881.D
Acq: 27 Feb 2025 10:53

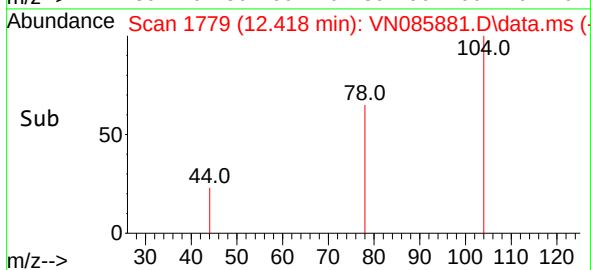
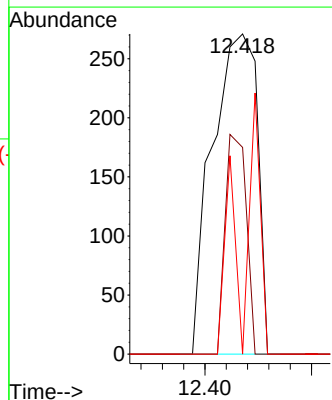
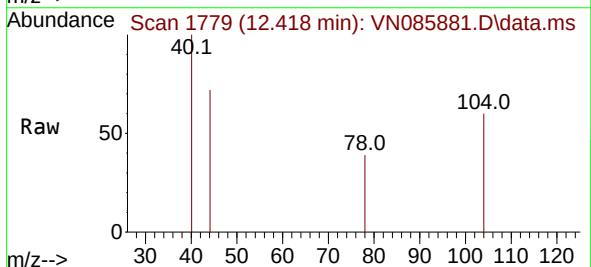
Instrument :
MSVOA_N
ClientSampleId :
VN0227MBL01

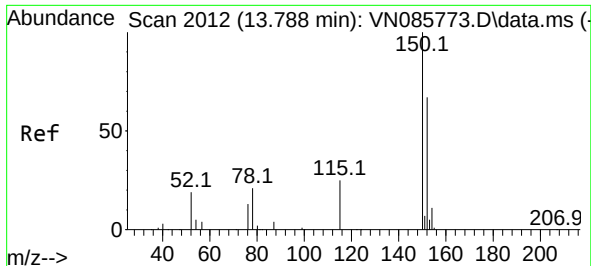
Tgt Ion:117 Resp: 305756
Ion Ratio Lower Upper
117 100
82 57.8 45.7 68.5
119 32.8 26.2 39.2



#70
Styrene
Concen: 0.643 ug/l
RT: 12.418 min Scan# 1779
Delta R.T. 0.012 min
Lab File: VN085881.D
Acq: 27 Feb 2025 10:53

Tgt Ion:104 Resp: 398
Ion Ratio Lower Upper
104 100
78 31.9 39.0 58.6#
103 14.8 43.3 64.9#

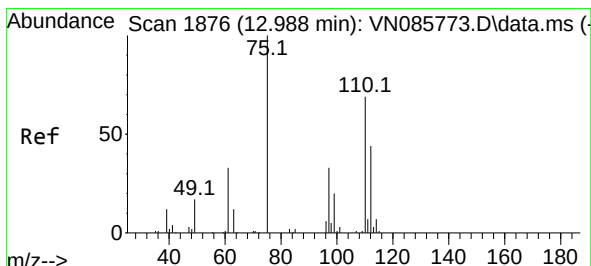
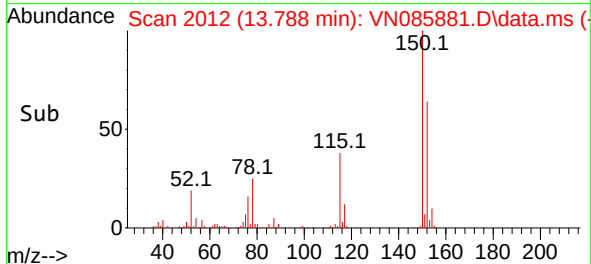
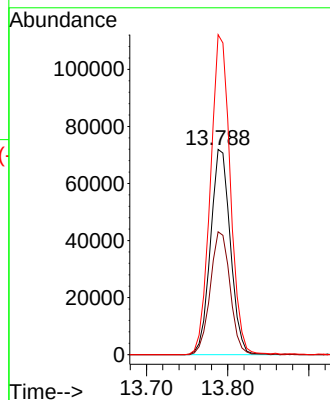
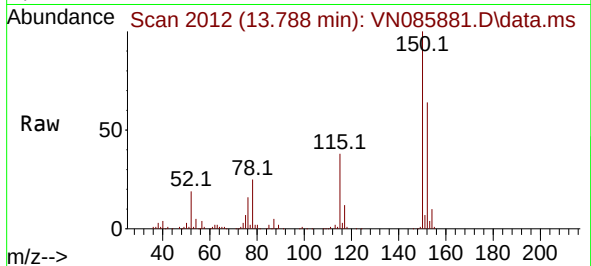




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.788 min Scan# 2012
 Delta R.T. 0.000 min
 Lab File: VN085881.D
 Acq: 27 Feb 2025 10:53

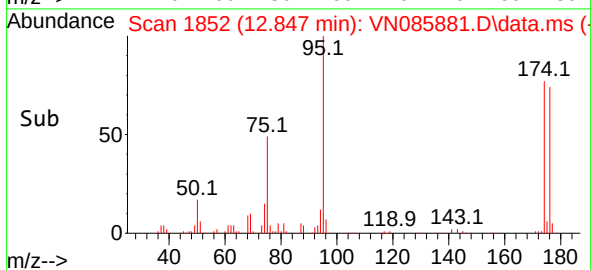
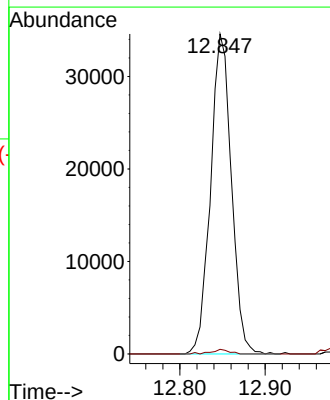
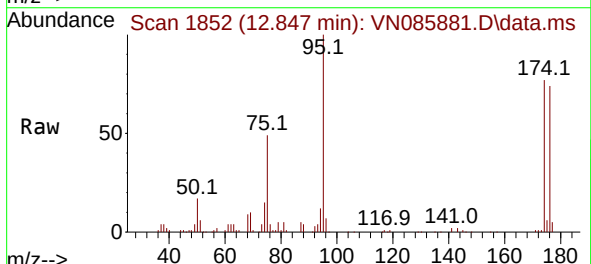
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0227MBL01

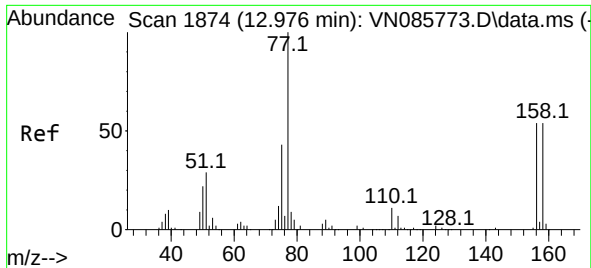
Tgt Ion:152 Resp: 122242
 Ion Ratio Lower Upper
 152 100
 115 59.8 30.4 91.3
 150 156.1 0.0 345.4



#76
 1,2,3-Trichloropropane
 Concen: 21.650 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. -0.141 min
 Lab File: VN085881.D
 Acq: 27 Feb 2025 10:53

Tgt Ion: 75 Resp: 58789
 Ion Ratio Lower Upper
 75 100
 77 1.2 100.0 300.0#

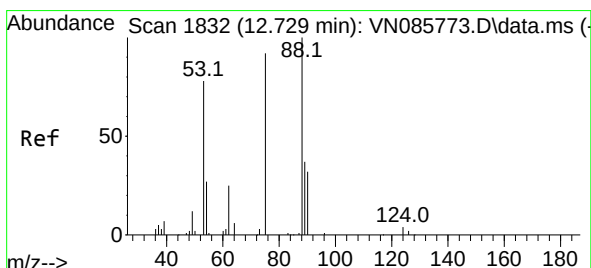
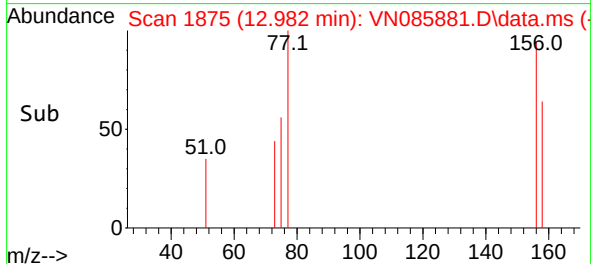
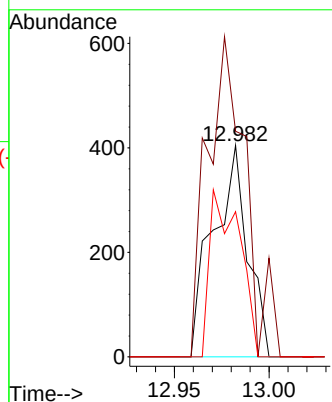
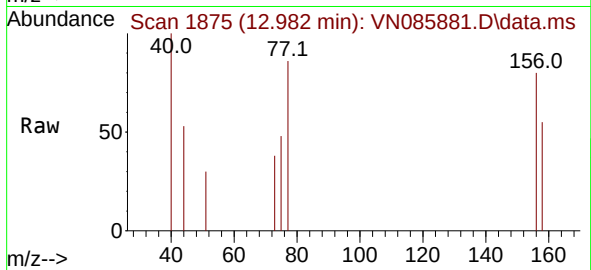




#77
Bromobenzene
Concen: 0.227 ug/l
RT: 12.982 min Scan# 1875
Delta R.T. 0.006 min
Lab File: VN085881.D
Acq: 27 Feb 2025 10:53

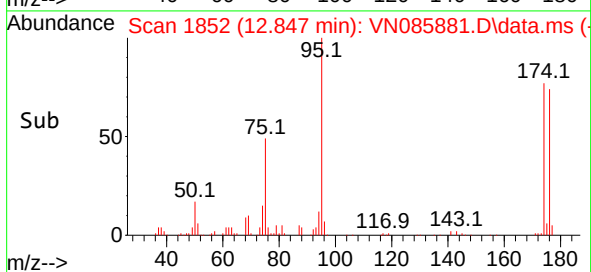
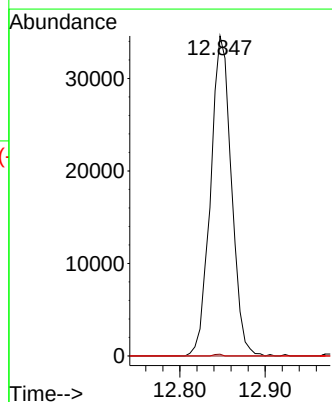
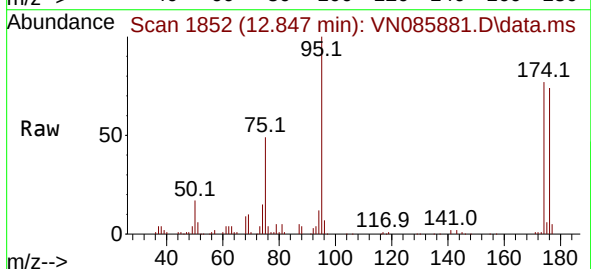
Instrument :
MSVOA_N
ClientSampleId :
VN0227MBL01

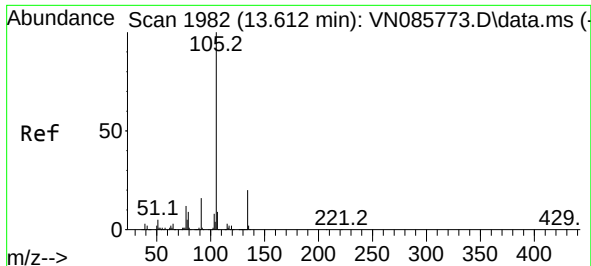
Tgt Ion:156 Resp: 514
Ion Ratio Lower Upper
156 100
77 167.7 104.1 312.3
158 68.7 48.1 144.4



#81
trans-1,4-Dichloro-2-butene
Concen: 63.170 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.118 min
Lab File: VN085881.D
Acq: 27 Feb 2025 10:53

Tgt Ion: 75 Resp: 58789
Ion Ratio Lower Upper
75 100
53 0.2 74.2 111.4#
89 0.0 34.9 52.3#

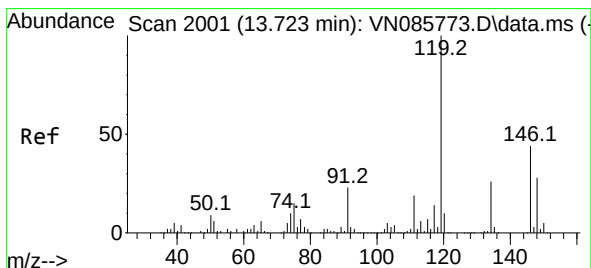
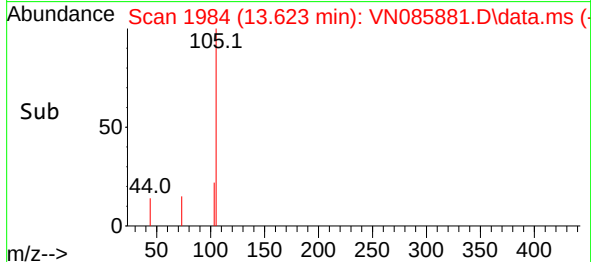
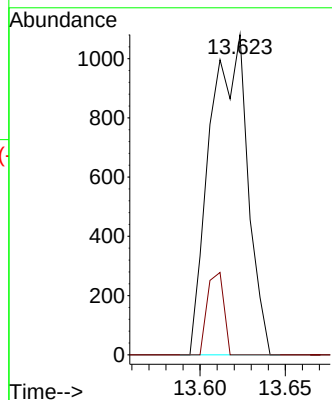
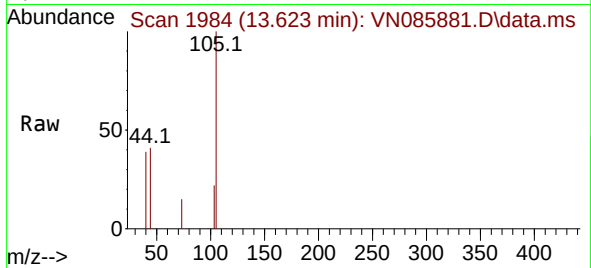




#85
 sec-Butylbenzene
 Concen: 0.205 ug/l
 RT: 13.623 min Scan# 1982
 Delta R.T. 0.011 min
 Lab File: VN085881.D
 Acq: 27 Feb 2025 10:53

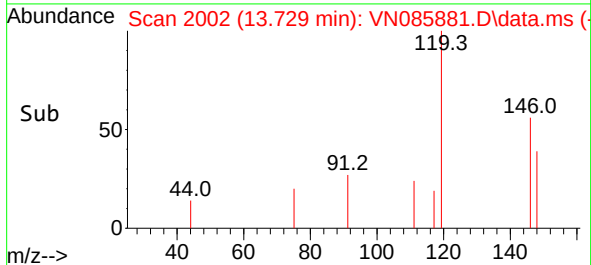
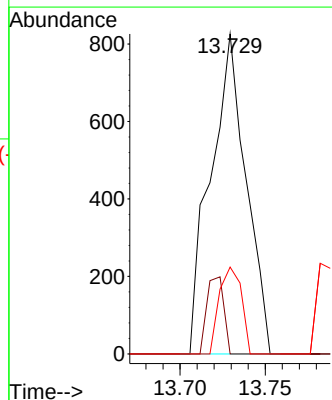
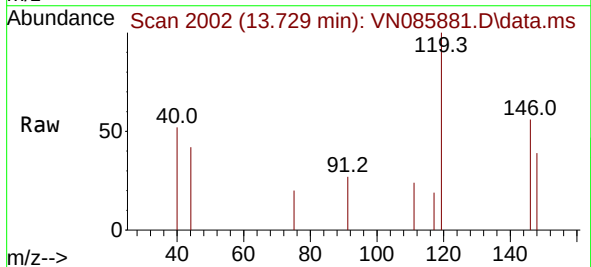
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0227MBL01

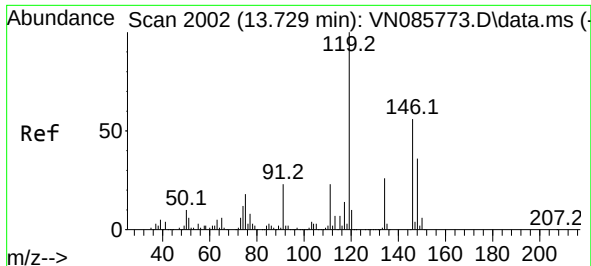
Tgt Ion:105 Resp: 1660
 Ion Ratio Lower Upper
 105 100
 134 11.3 9.8 29.4



#86
 p-Isopropyltoluene
 Concen: 0.798 ug/l
 RT: 13.729 min Scan# 2002
 Delta R.T. 0.006 min
 Lab File: VN085881.D
 Acq: 27 Feb 2025 10:53

Tgt Ion:119 Resp: 1197
 Ion Ratio Lower Upper
 119 100
 134 11.4 13.0 39.0#
 91 17.0 11.7 35.1

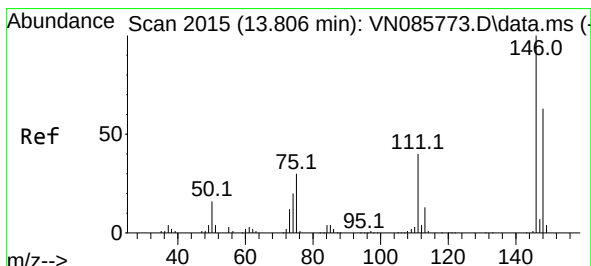
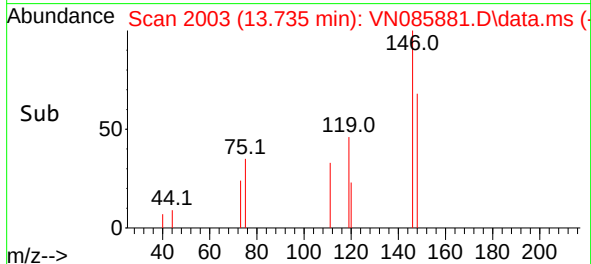
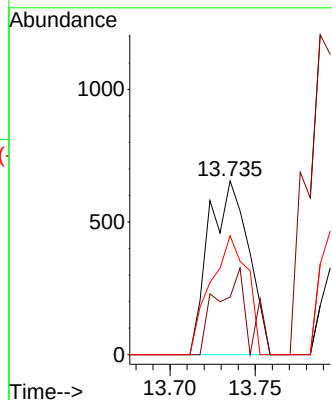
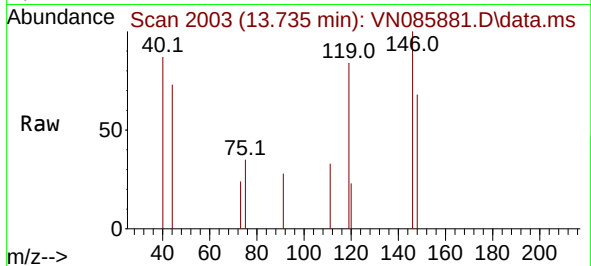




#87
1,3-Dichlorobenzene
Concen: 0.251 ug/l
RT: 13.735 min Scan# 2003
Delta R.T. 0.006 min
Lab File: VN085881.D
Acq: 27 Feb 2025 10:53

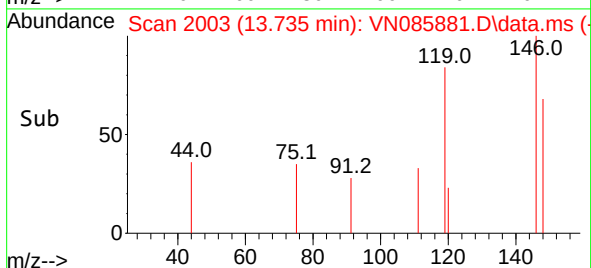
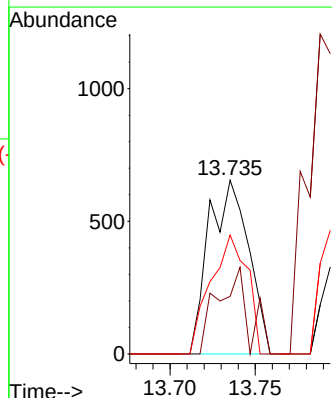
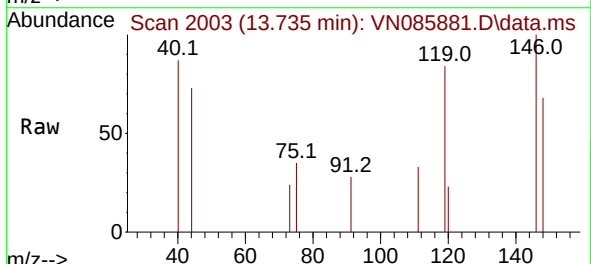
Instrument :
MSVOA_N
ClientSampleId :
VN0227MBL01

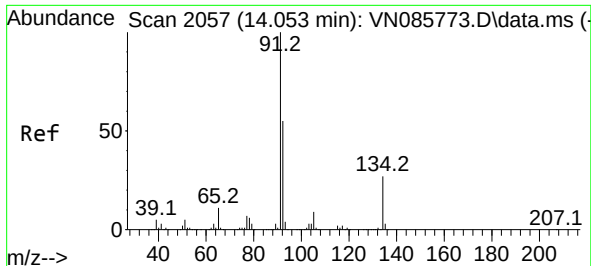
Tgt Ion:146 Resp: 1065
Ion Ratio Lower Upper
146 100
111 39.2 21.1 63.3
148 62.8 32.1 96.5



#88
1,4-Dichlorobenzene
Concen: 0.245 ug/l
RT: 13.735 min Scan# 2003
Delta R.T. -0.071 min
Lab File: VN085881.D
Acq: 27 Feb 2025 10:53

Tgt Ion:146 Resp: 1065
Ion Ratio Lower Upper
146 100
111 39.2 20.4 61.3
148 62.8 31.8 95.4

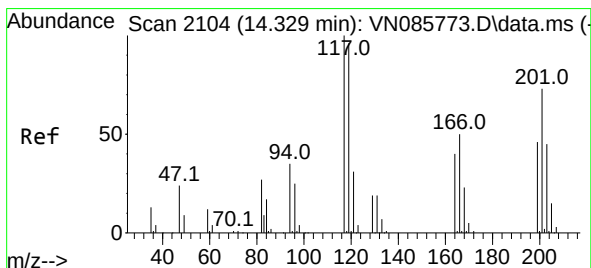
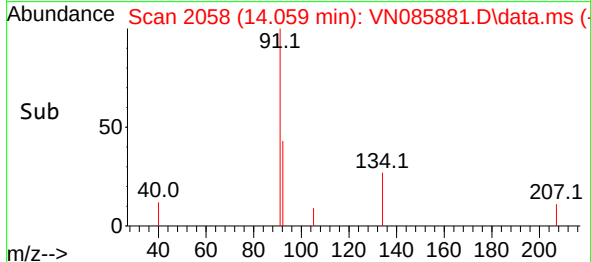
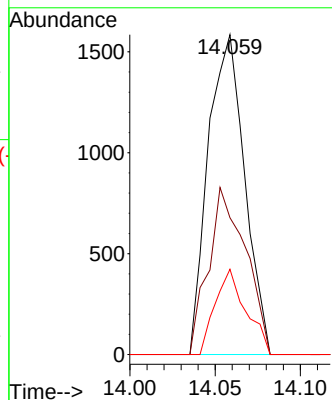
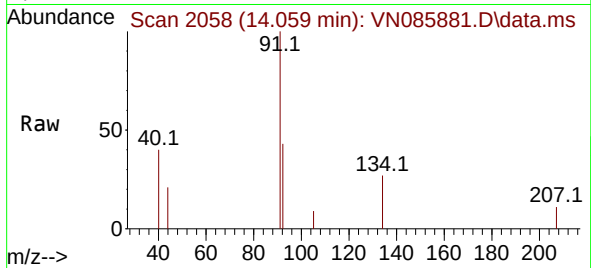




#89
n-Butylbenzene
Concen: 0.410 ug/l
RT: 14.059 min Scan# 2058
Delta R.T. 0.006 min
Lab File: VN085881.D
Acq: 27 Feb 2025 10:53

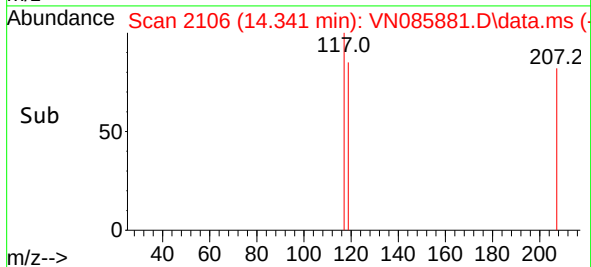
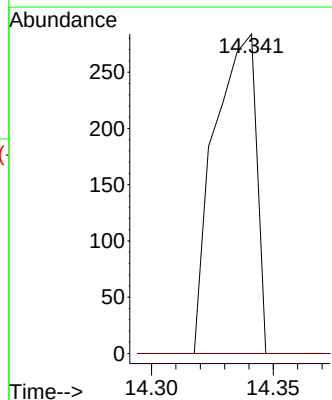
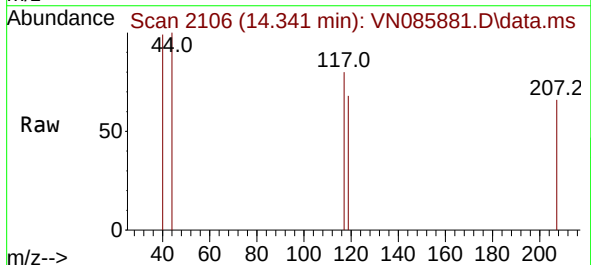
Instrument :
MSVOA_N
ClientSampleId :
VN0227MBL01

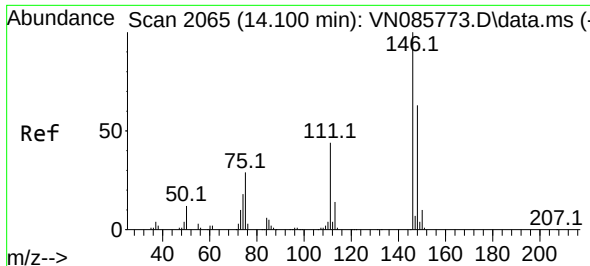
Tgt Ion: 91 Resp: 2361
Ion Ratio Lower Upper
91 100
92 53.3 27.1 81.3
134 22.6 12.7 38.1



#90
Hexachloroethane
Concen: 0.220 ug/l
RT: 14.341 min Scan# 2106
Delta R.T. 0.012 min
Lab File: VN085881.D
Acq: 27 Feb 2025 10:53

Tgt Ion: 117 Resp: 338
Ion Ratio Lower Upper
117 100
201 0.0 35.6 106.9#





#91

1,2-Dichlorobenzene

Concen: 0.254 ug/l

RT: 14.106 min Scan# 2065

Delta R.T. 0.006 min

Lab File: VN085881.D

Acq: 27 Feb 2025 10:53

Instrument :

MSVOA_N

ClientSampleId :

VN0227MBL01

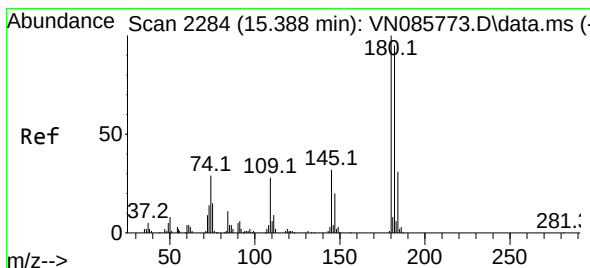
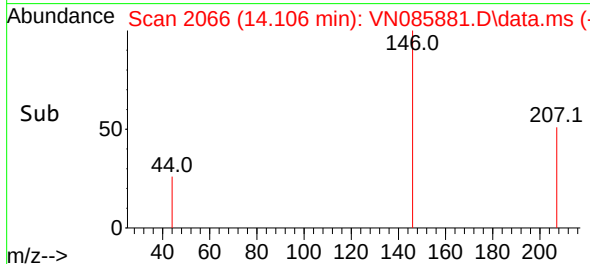
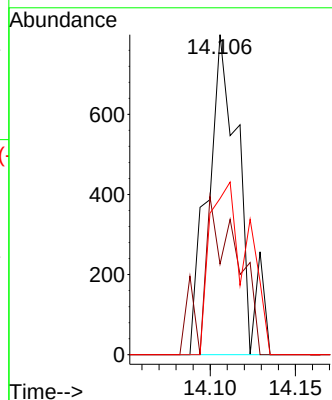
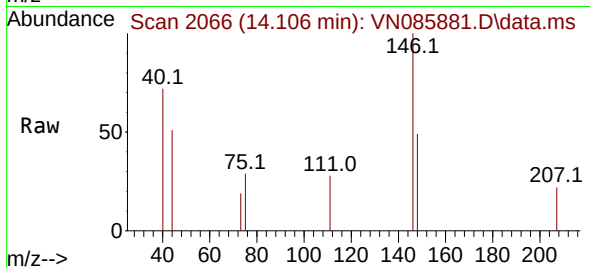
Tgt Ion:146 Resp: 1035

Ion Ratio Lower Upper

146 100

111 54.0 21.4 64.3

148 63.7 32.0 96.2



#93

1,2,4-Trichlorobenzene

Concen: 1.042 ug/l

RT: 15.394 min Scan# 2285

Delta R.T. 0.006 min

Lab File: VN085881.D

Acq: 27 Feb 2025 10:53

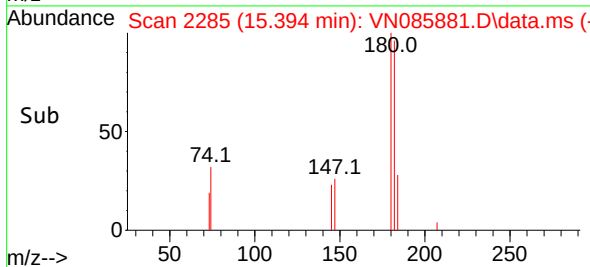
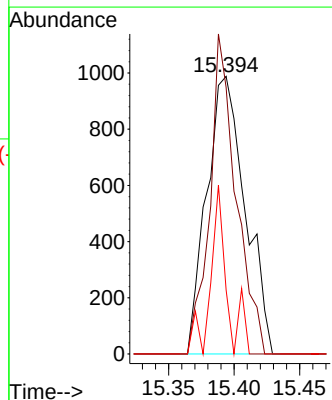
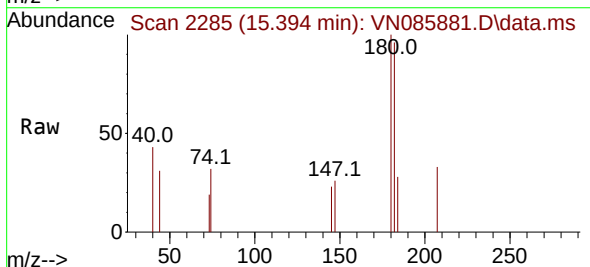
Tgt Ion:180 Resp: 2024

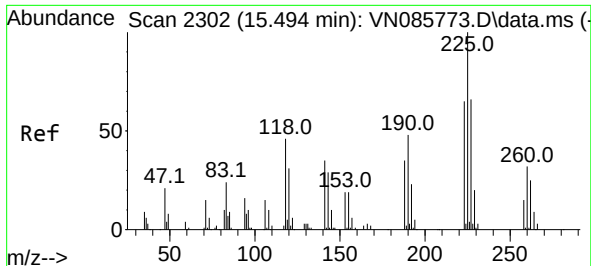
Ion Ratio Lower Upper

180 100

182 78.3 47.3 141.9

145 25.6 16.2 48.5

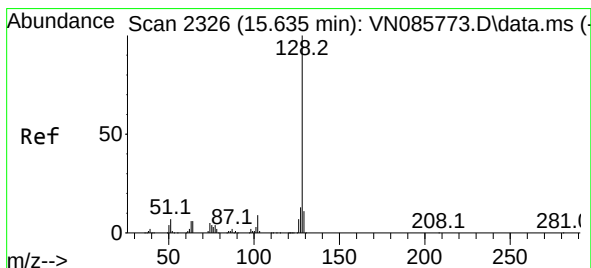
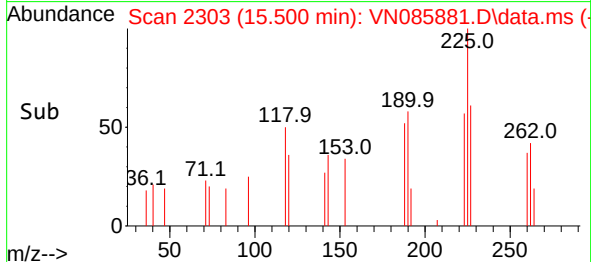
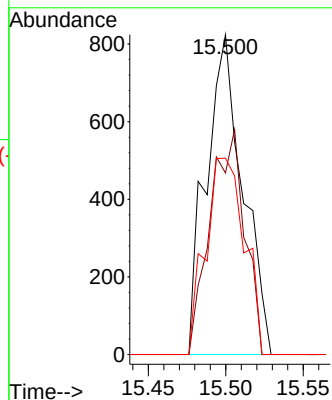
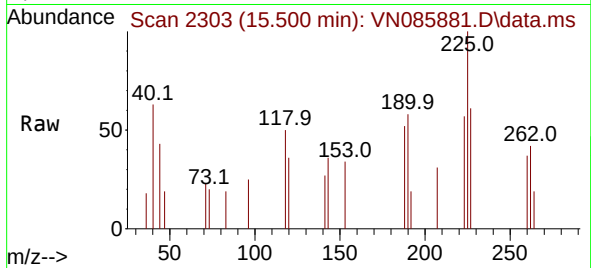




#94
Hexachlorobutadiene
Concen: 1.148 ug/l
RT: 15.500 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN085881.D
Acq: 27 Feb 2025 10:53

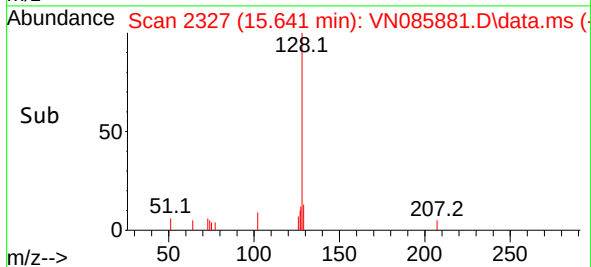
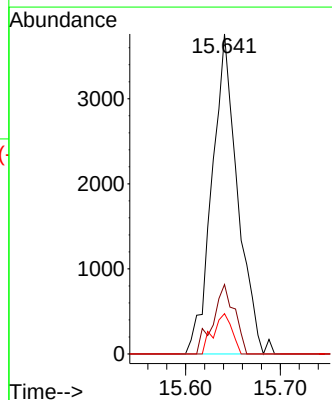
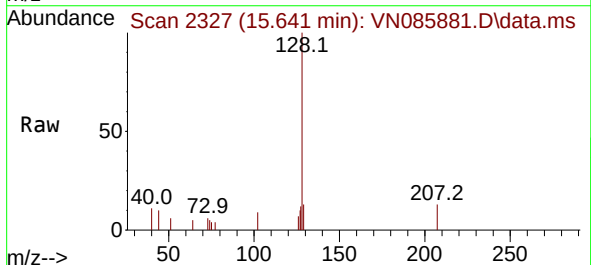
Instrument :
MSVOA_N
ClientSampleId :
VN0227MBL01

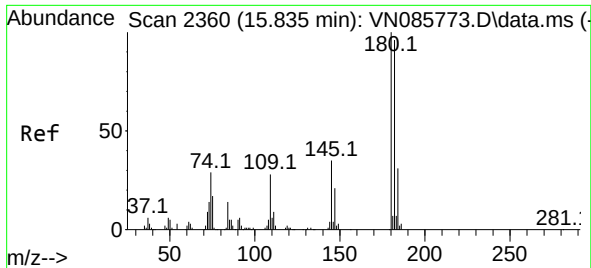
Tgt Ion:225 Resp: 1355
Ion Ratio Lower Upper
225 100
223 66.5 31.9 95.5
227 65.3 32.2 96.6



#95
Naphthalene
Concen: 1.330 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. 0.006 min
Lab File: VN085881.D
Acq: 27 Feb 2025 10:53

Tgt Ion:128 Resp: 7091
Ion Ratio Lower Upper
128 100
127 18.1 10.2 15.2#
129 9.2 8.7 13.1





#96
 1,2,3-Trichlorobenzene
 Concen: 1.065 ug/l
 RT: 15.841 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VN085881.D
 Acq: 27 Feb 2025 10:53

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0227MBL01

Tgt Ion:	180	Resp:	2077
Ion	Ratio	Lower	Upper
180	100		
182	87.6	47.3	141.8
145	25.1	16.9	50.6

