

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051325\
 Data File : VN086591.D
 Acq On : 13 May 2025 10:57
 Operator : JC\MD
 Sample : VN0513MBL01
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0513MBL01

Quant Time: May 14 01:38:55 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 04:19:23 2025
 Response via : Initial Calibration

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

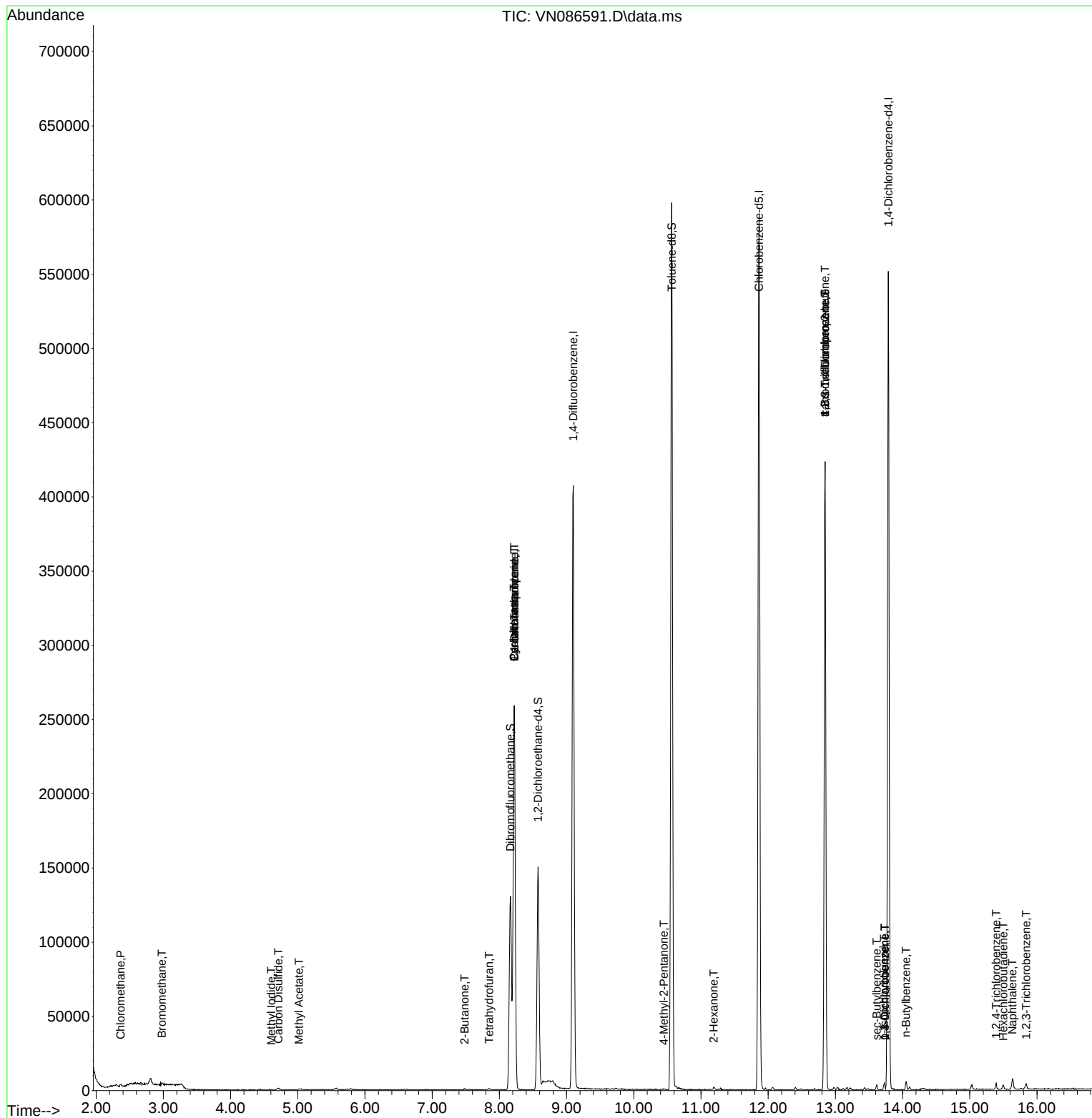
Internal Standards						
1) Pentafluorobenzene	8.224	168	192372	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	365313	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	352602	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	151057	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	123566	44.296	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	88.600%		
35) Dibromofluoromethane	8.165	113	97618	57.576	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	115.160%		
50) Toluene-d8	10.565	98	422779	46.657	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	93.320%		
62) 4-Bromofluorobenzene	12.847	95	153620	46.480	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	92.960%		
Target Compounds						Qvalue
3) Chloromethane	2.365	50	1458	0.440	ug/l	89
5) Bromomethane	2.977	94	885	0.622	ug/l #	78
10) Methyl Iodide	4.606	142	721	0.309	ug/l #	80
13) Acrolein	4.183	56	369	Below Cal	#	30
16) Acetone	4.436	43	602	Below Cal	#	43
17) Carbon Disulfide	4.712	76	3071	0.453	ug/l #	74
18) Methyl Acetate	5.018	43	1763	0.526	ug/l #	51
25) 2-Butanone	7.483	43	632	0.364	ug/l #	48
29) Tetrahydrofuran	7.847	42	776	0.668	ug/l #	51
31) Cyclohexane	8.218	56	4457	0.986	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	15761	4.654	ug/l #	49
38) Carbon Tetrachloride	8.224	117	18958	5.879	ug/l #	18
43) Isopropyl Acetate	8.665	43	4976	Below Cal	#	55
51) 4-Methyl-2-Pentanone	10.447	43	1130	0.310	ug/l #	35
59) 2-Hexanone	11.188	43	1677	0.619	ug/l	65
76) 1,2,3-Trichloropropane	12.847	75	77312	21.688	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	77312	52.087	ug/l #	10
85) sec-Butylbenzene	13.617	105	2855	0.235	ug/l	98
86) p-Isopropyltoluene	13.723	119	2296	0.229	ug/l	93
87) 1,3-Dichlorobenzene	13.735	146	1250	0.243	ug/l	80
88) 1,4-Dichlorobenzene	13.735	146	1250	0.241	ug/l	81
89) n-Butylbenzene	14.053	91	3686	0.415	ug/l	99
93) 1,2,4-Trichlorobenzene	15.394	180	1524	0.638	ug/l	88
94) Hexachlorobutadiene	15.500	225	892	0.989	ug/l	81
95) Naphthalene	15.635	128	7844	0.926	ug/l	96
96) 1,2,3-Trichlorobenzene	15.841	180	1803	0.797	ug/l	96

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

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Data File : VN086591.D
Acq On : 13 May 2025 10:57
Operator : JC\MD
Sample : VN0513MBL01
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0513MBL01

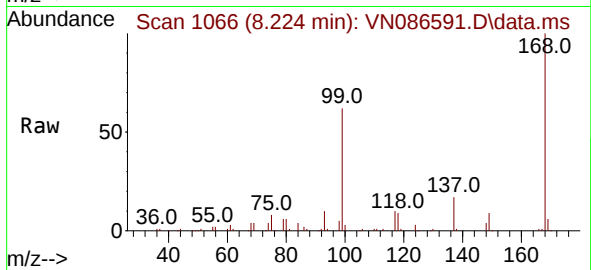
Quant Time: May 14 01:38:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 16 04:19:23 2025
Response via : Initial Calibration



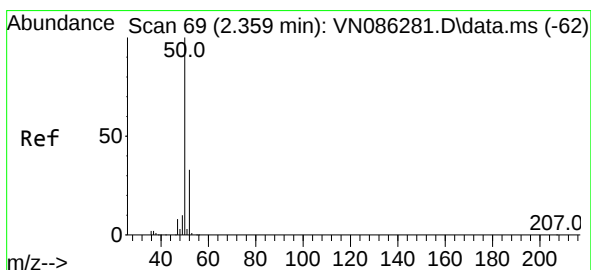
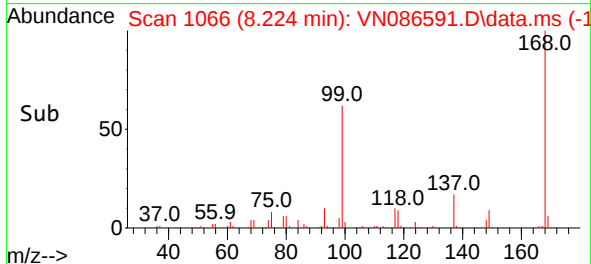
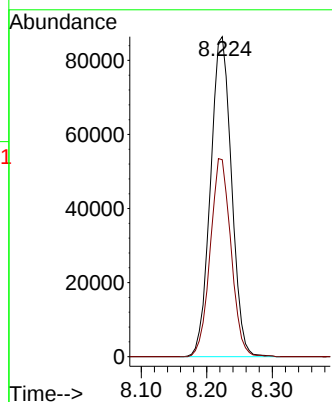


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN086591.D
Acq: 13 May 2025 10:57

Instrument :
MSVOA_N
ClientSampleId :
VN0513MBL01

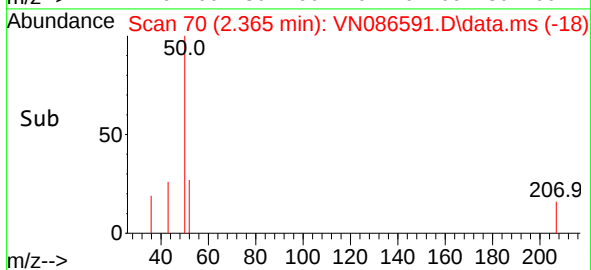
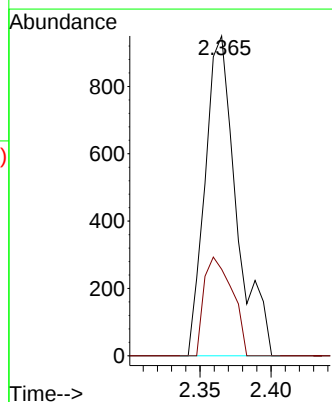
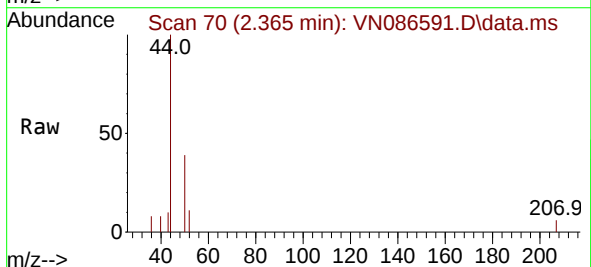


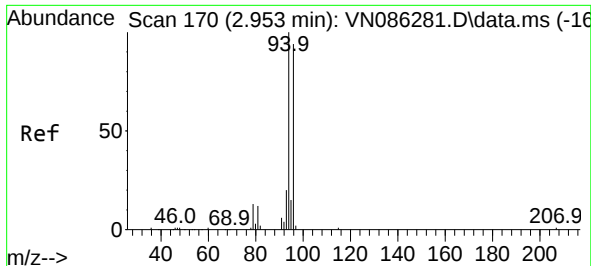
Tgt Ion:168 Resp: 192372
Ion Ratio Lower Upper
168 100
99 61.5 52.5 78.7



#3
Chloromethane
Concen: 0.440 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN086591.D
Acq: 13 May 2025 10:57

Tgt Ion: 50 Resp: 1458
Ion Ratio Lower Upper
50 100
52 27.1 26.5 39.7

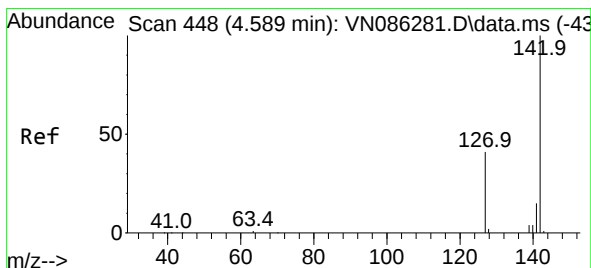
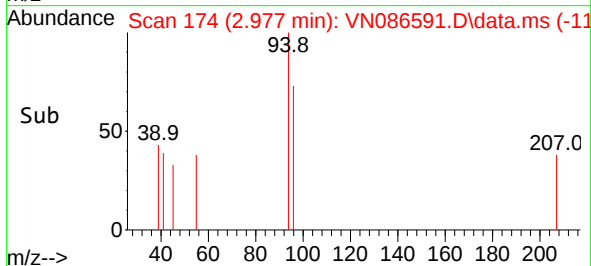
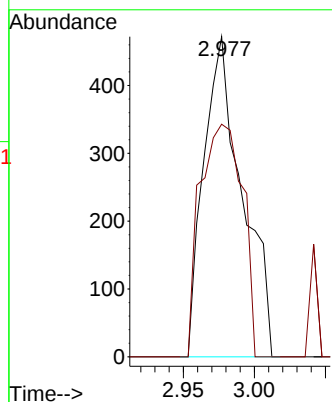
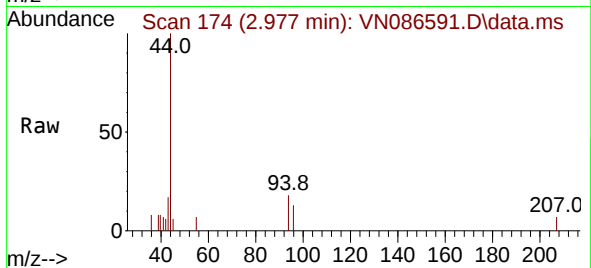




#5
Bromomethane
Concen: 0.622 ug/l
RT: 2.977 min Scan# 11
Delta R.T. 0.023 min
Lab File: VN086591.D
Acq: 13 May 2025 10:57

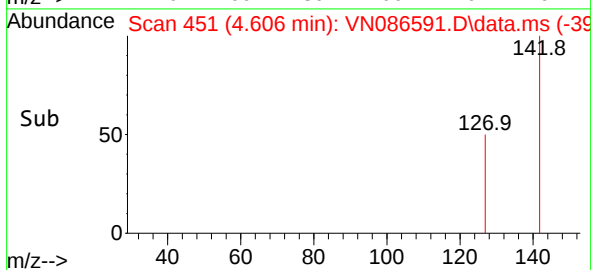
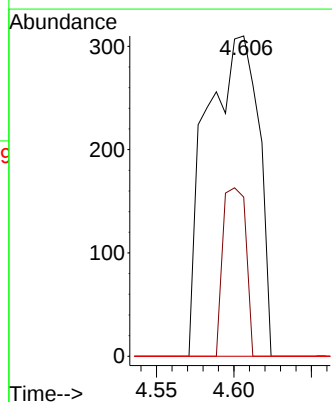
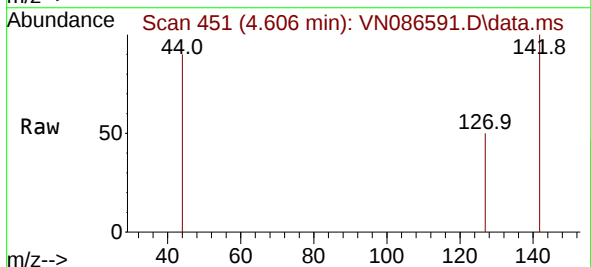
Instrument :
MSVOA_N
ClientSampleId :
VN0513MBL01

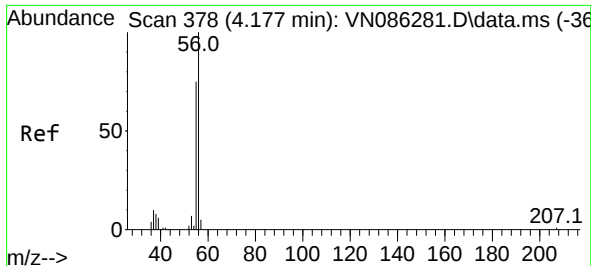
Tgt Ion: 94 Resp: 885
Ion Ratio Lower Upper
94 100
96 72.7 75.2 112.8#



#10
Methyl Iodide
Concen: 0.309 ug/l
RT: 4.606 min Scan# 451
Delta R.T. 0.018 min
Lab File: VN086591.D
Acq: 13 May 2025 10:57

Tgt Ion: 142 Resp: 721
Ion Ratio Lower Upper
142 100
127 49.7 32.7 49.1#
141 0.0 11.7 17.5#

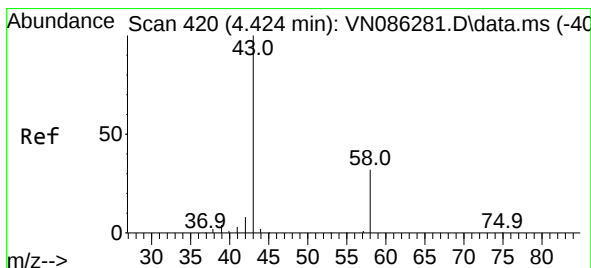
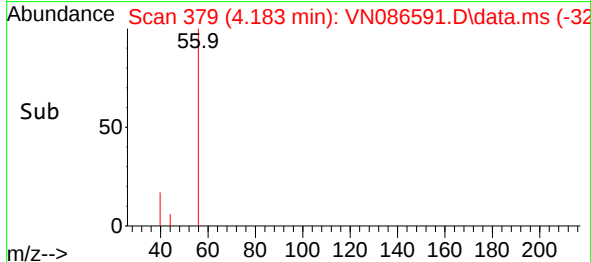
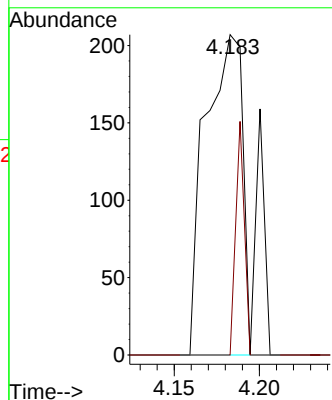
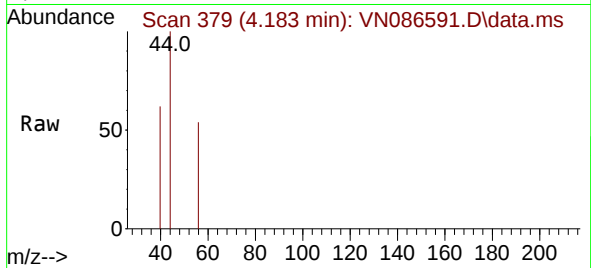




#13
Acrolein
Concen: Below Cal
RT: 4.183 min Scan# 31
Delta R.T. 0.006 min
Lab File: VN086591.D
Acq: 13 May 2025 10:57

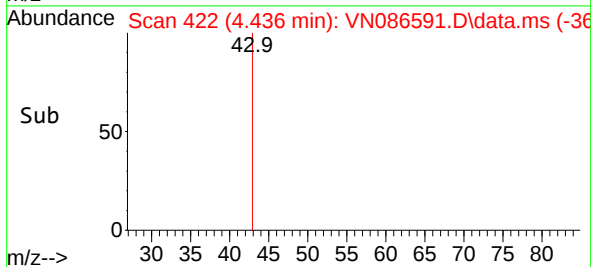
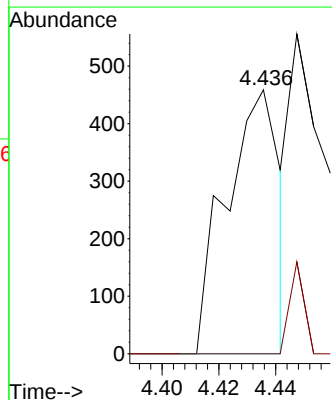
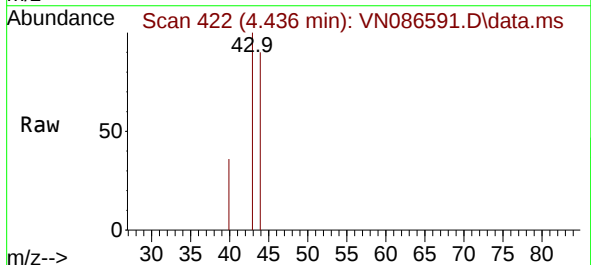
Instrument :
MSVOA_N
ClientSampleId :
VN0513MBL01

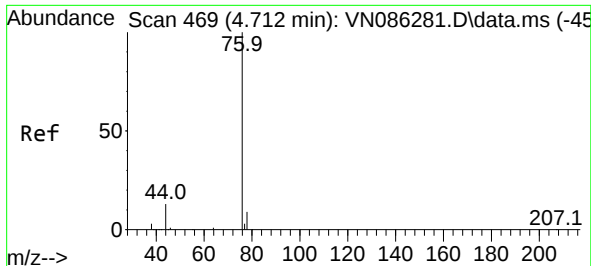
Tgt Ion: 56 Resp: 369
Ion Ratio Lower Upper
56 100
55 14.4 58.5 87.7#



#16
Acetone
Concen: Below Cal
RT: 4.436 min Scan# 422
Delta R.T. 0.012 min
Lab File: VN086591.D
Acq: 13 May 2025 10:57

Tgt Ion: 43 Resp: 602
Ion Ratio Lower Upper
43 100
58 0.0 25.3 37.9#

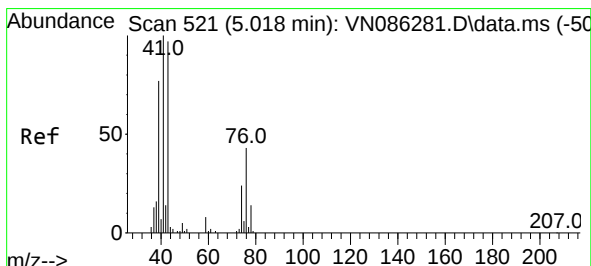
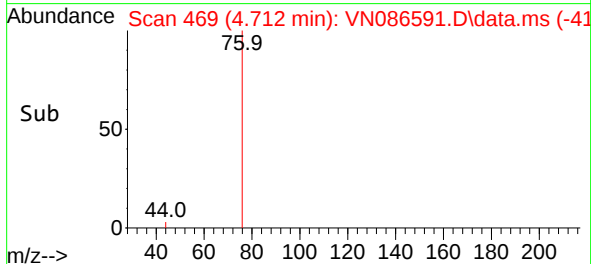
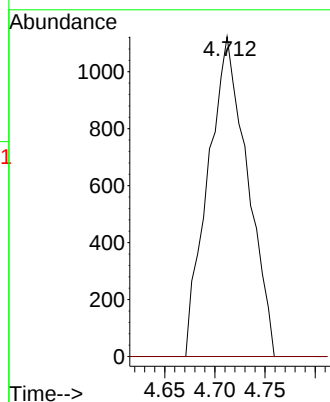
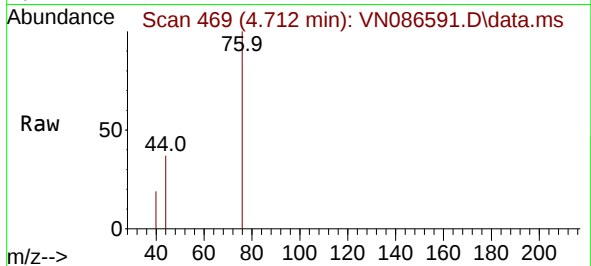




#17
Carbon Disulfide
Concen: 0.453 ug/l
RT: 4.712 min Scan# 469
Delta R.T. -0.000 min
Lab File: VN086591.D
Acq: 13 May 2025 10:57

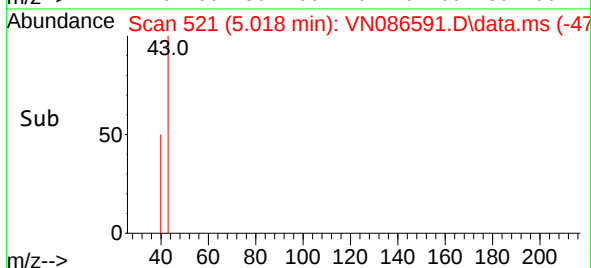
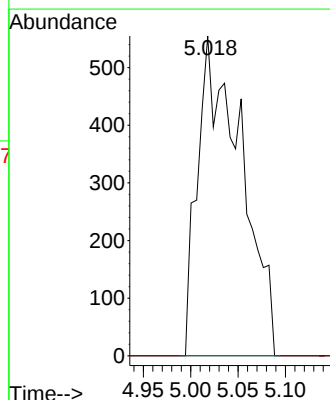
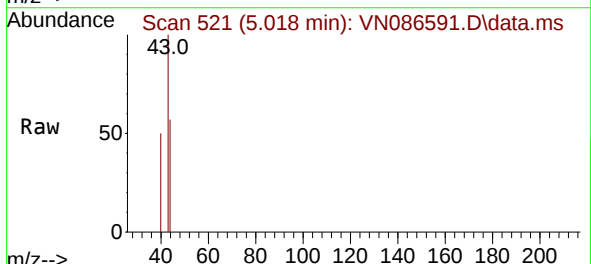
Instrument :
MSVOA_N
ClientSampleId :
VN0513MBL01

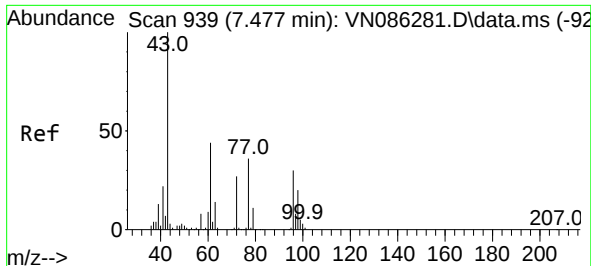
Tgt Ion: 76 Resp: 3071
Ion Ratio Lower Upper
76 100
78 0.0 7.6 11.4#



#18
Methyl Acetate
Concen: 0.526 ug/l
RT: 5.018 min Scan# 521
Delta R.T. -0.000 min
Lab File: VN086591.D
Acq: 13 May 2025 10:57

Tgt Ion: 43 Resp: 1763
Ion Ratio Lower Upper
43 100
74 0.0 19.8 29.6#

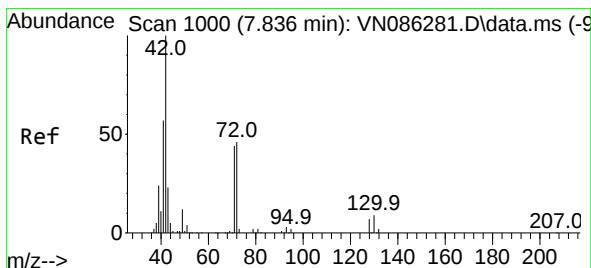
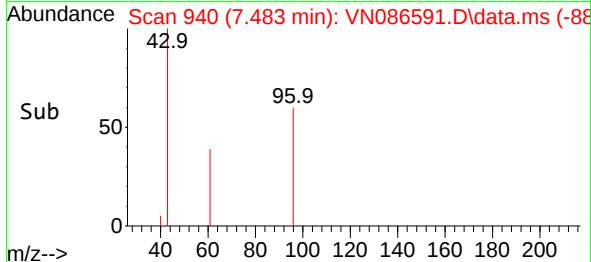
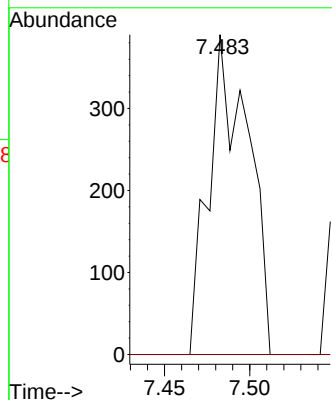
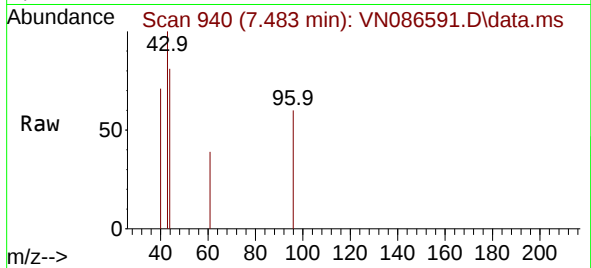




#25
2-Butanone
Concen: 0.364 ug/l
RT: 7.483 min Scan# 94
Delta R.T. 0.006 min
Lab File: VN086591.D
Acq: 13 May 2025 10:57

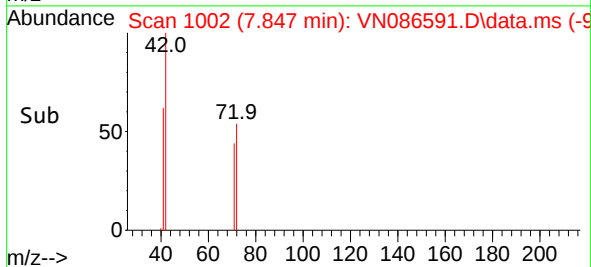
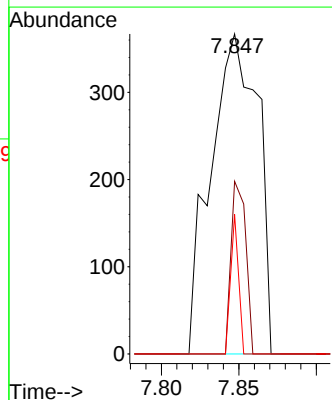
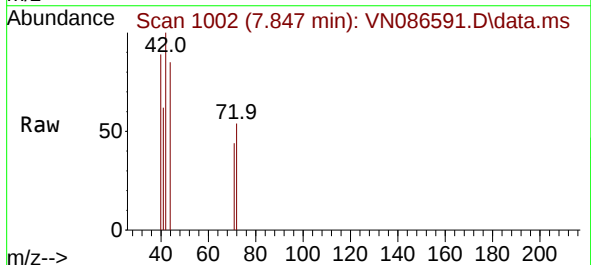
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ClientSampleId :
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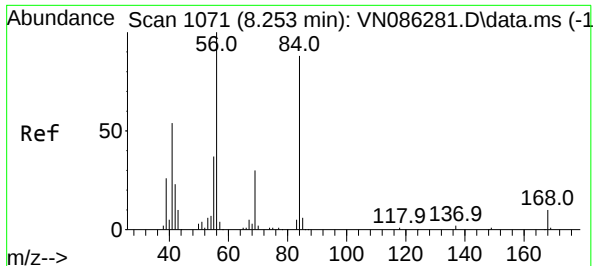
Tgt Ion: 43 Resp: 632
Ion Ratio Lower Upper
43 100
72 0.0 21.7 32.5#



#29
Tetrahydrofuran
Concen: 0.668 ug/l
RT: 7.847 min Scan# 1002
Delta R.T. 0.012 min
Lab File: VN086591.D
Acq: 13 May 2025 10:57

Tgt Ion: 42 Resp: 776
Ion Ratio Lower Upper
42 100
72 16.9 36.2 54.4#
71 7.2 34.0 51.0#

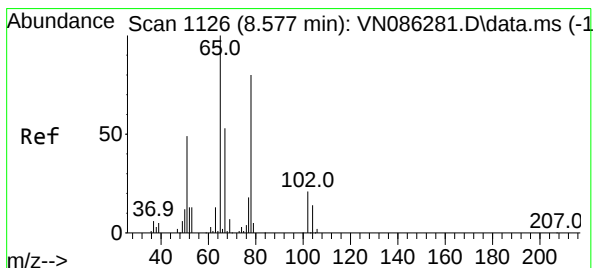
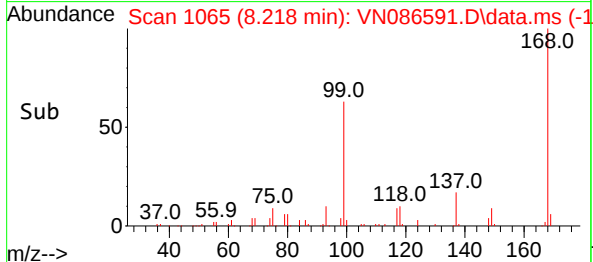
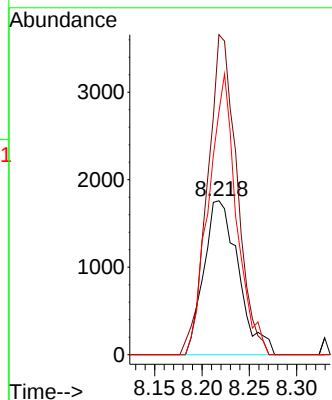
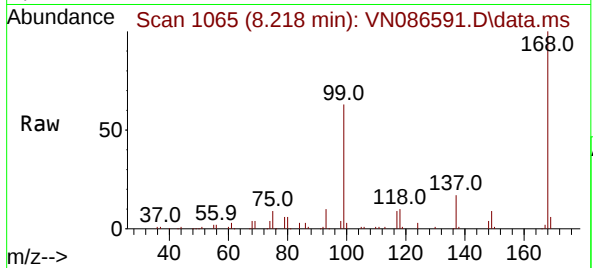




#31
Cyclohexane
Concen: 0.986 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.035 min
Lab File: VN086591.D
Acq: 13 May 2025 10:57

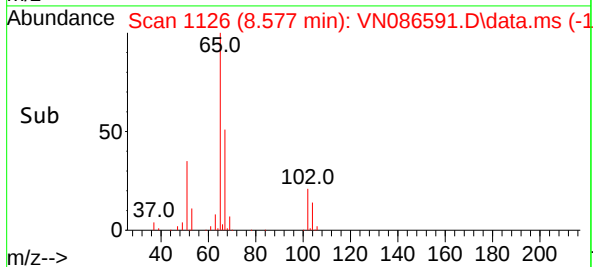
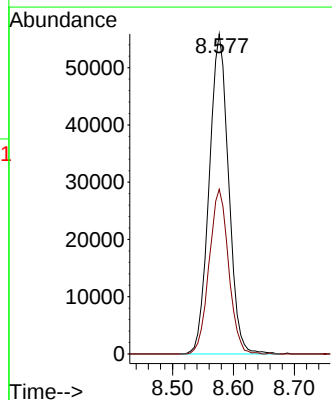
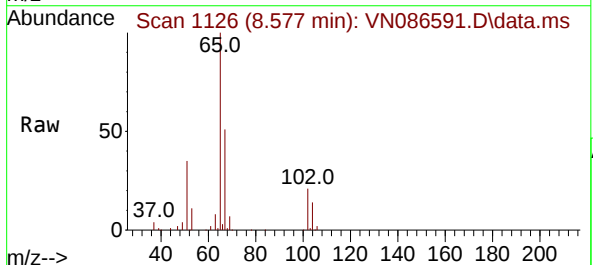
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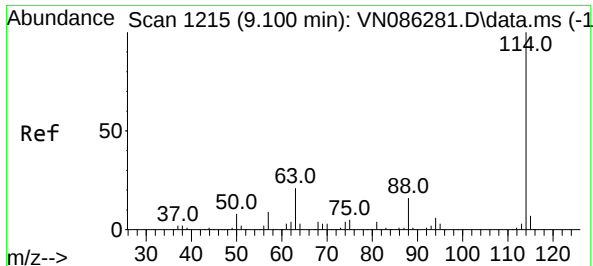
Tgt Ion: 56 Resp: 4457
Ion Ratio Lower Upper
56 100
69 208.0 24.2 36.2#
84 157.6 70.3 105.5#



#33
1,2-Dichloroethane-d4
Concen: 44.296 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN086591.D
Acq: 13 May 2025 10:57

Tgt Ion: 65 Resp: 123566
Ion Ratio Lower Upper
65 100
67 51.6 0.0 106.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086591.D

Acq: 13 May 2025 10:57

Instrument :

MSVOA_N

ClientSampleId :

VN0513MBL01

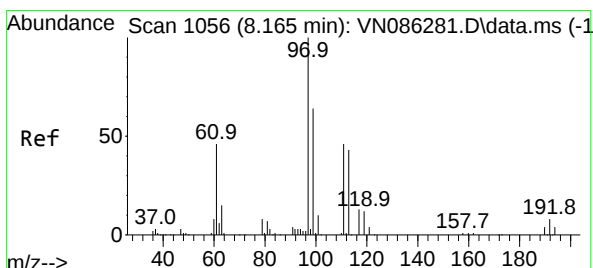
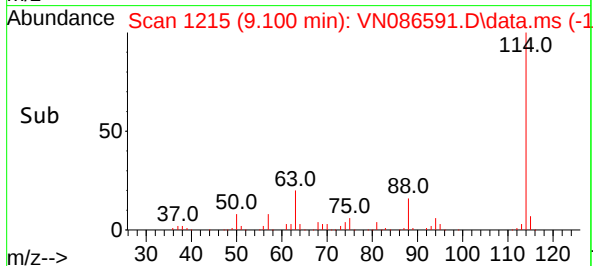
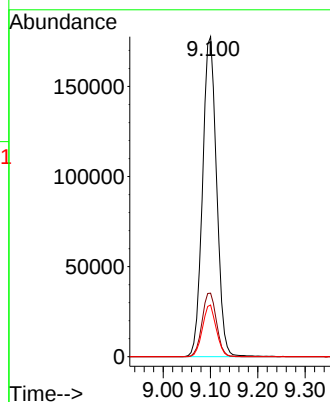
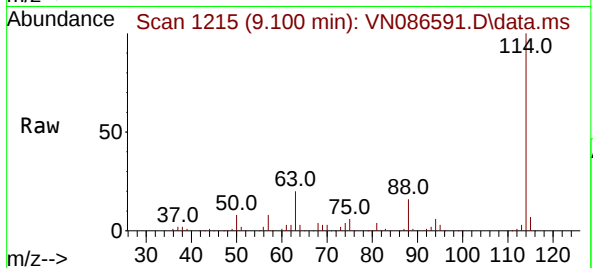
Tgt Ion:114 Resp: 365313

Ion Ratio Lower Upper

114 100

63 19.9 0.0 42.6

88 16.2 0.0 31.8



#35

Dibromofluoromethane

Concen: 57.576 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086591.D

Acq: 13 May 2025 10:57

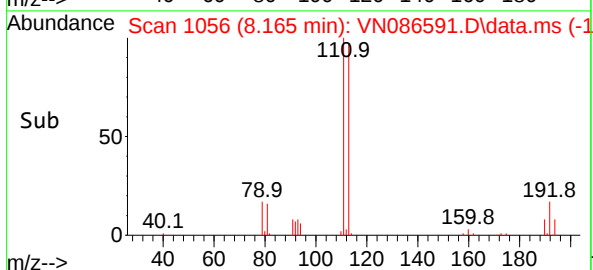
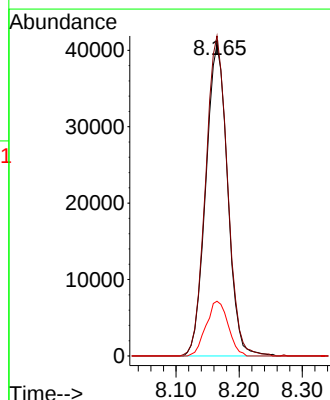
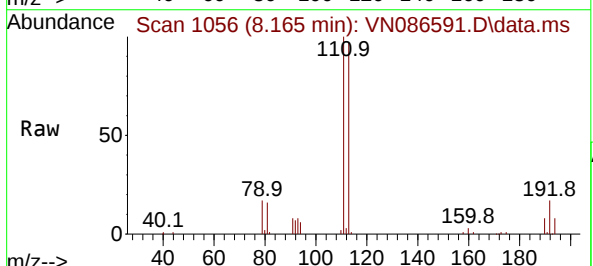
Tgt Ion:113 Resp: 97618

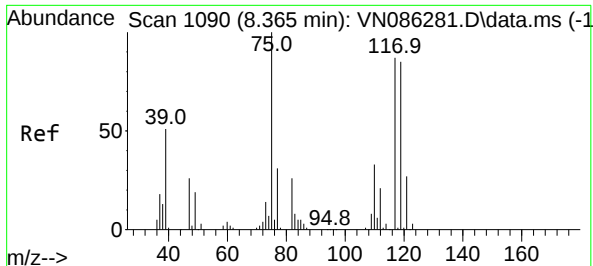
Ion Ratio Lower Upper

113 100

111 103.2 83.4 125.0

192 17.7 13.7 20.5





#36

1,1-Dichloropropene

Concen: 4.654 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

Lab File: VN086591.D

Acq: 13 May 2025 10:57

Instrument :

MSVOA_N

ClientSampleId :

VN0513MBL01

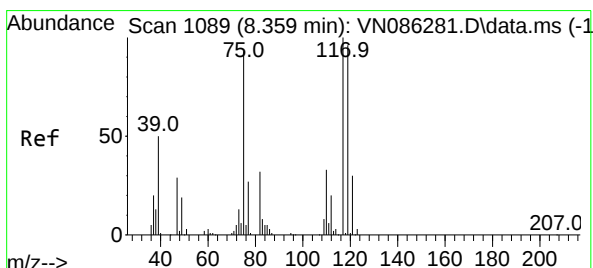
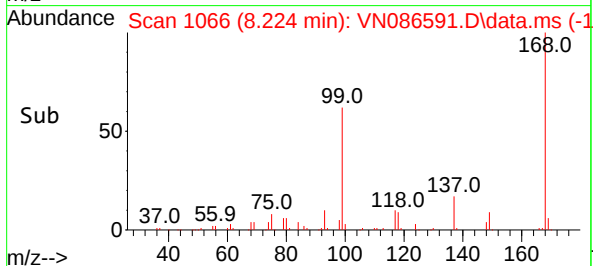
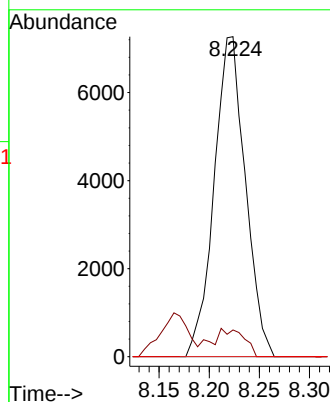
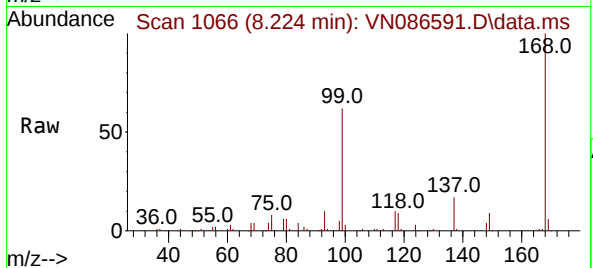
Tgt Ion: 75 Resp: 15761

Ion Ratio Lower Upper

75 100

110 7.3 16.8 50.4#

77 0.0 24.9 37.3#



#38

Carbon Tetrachloride

Concen: 5.879 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.135 min

Lab File: VN086591.D

Acq: 13 May 2025 10:57

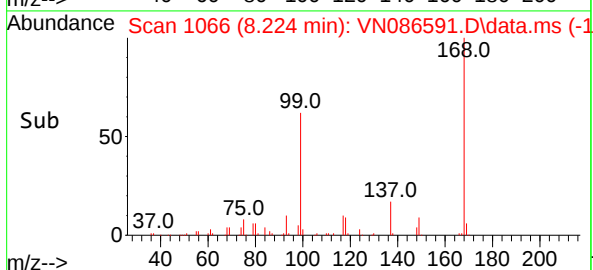
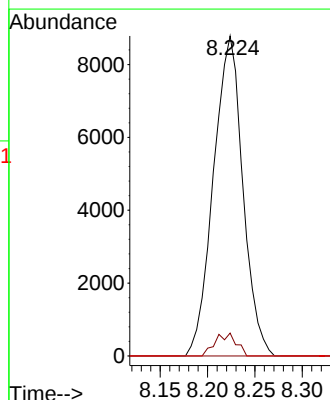
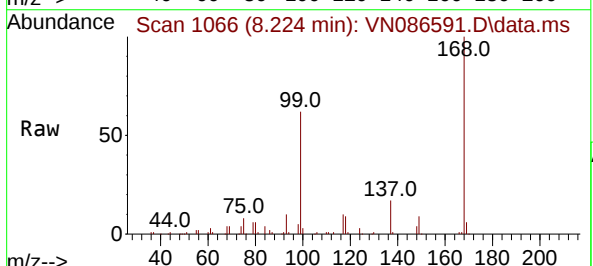
Tgt Ion: 117 Resp: 18958

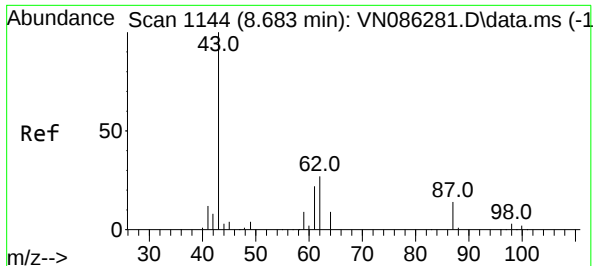
Ion Ratio Lower Upper

117 100

119 7.1 76.8 115.2#

121 0.0 23.8 35.8#





#43

Isopropyl Acetate

Concen: Below Cal

RT: 8.665 min Scan# 1144

Delta R.T. -0.018 min

Lab File: VN086591.D

Acq: 13 May 2025 10:57

Instrument :

MSVOA_N

ClientSampleId :

VN0513MBL01

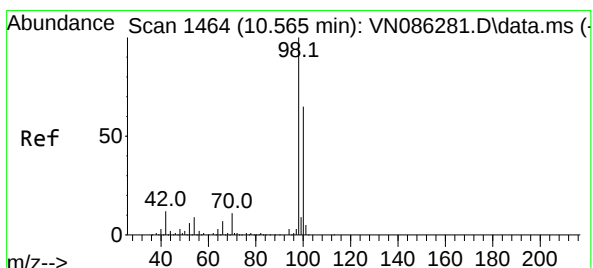
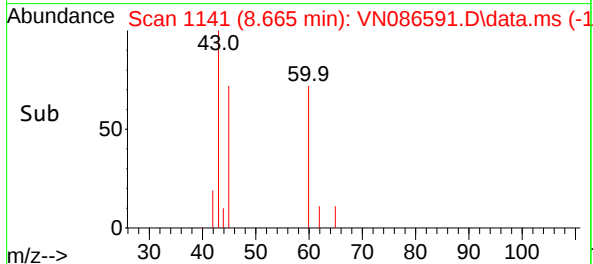
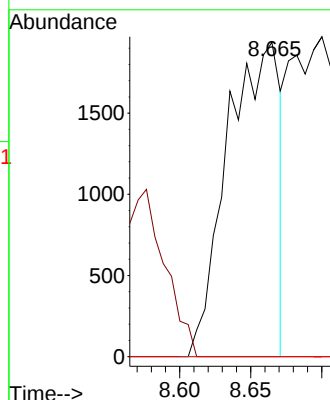
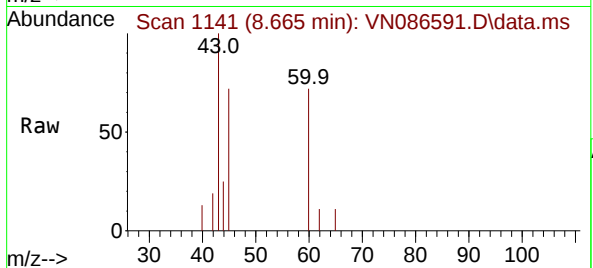
Tgt Ion: 43 Resp: 4976

Ion Ratio Lower Upper

43 100

61 0.0 20.5 30.7#

87 0.0 10.5 15.7#



#50

Toluene-d8

Concen: 46.657 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN086591.D

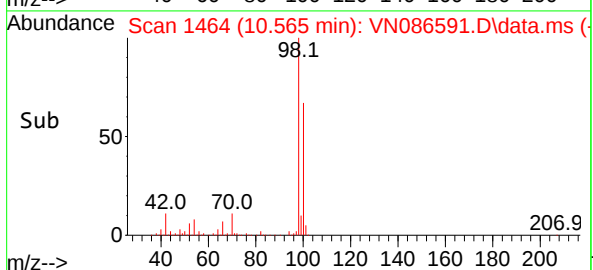
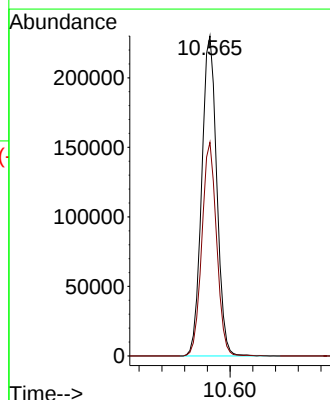
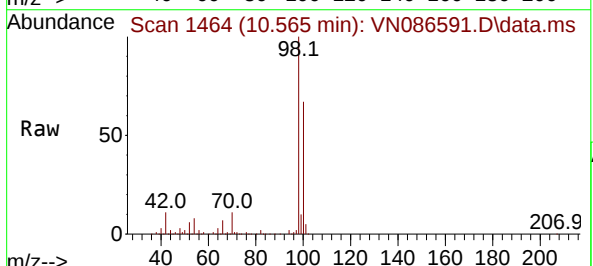
Acq: 13 May 2025 10:57

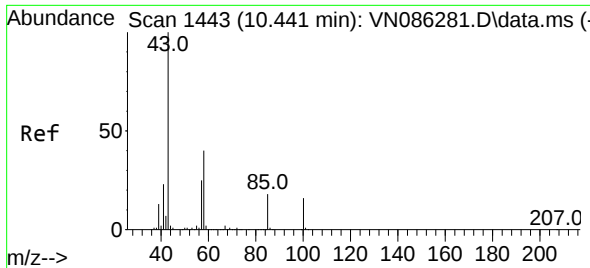
Tgt Ion: 98 Resp: 422779

Ion Ratio Lower Upper

98 100

100 65.4 52.5 78.7

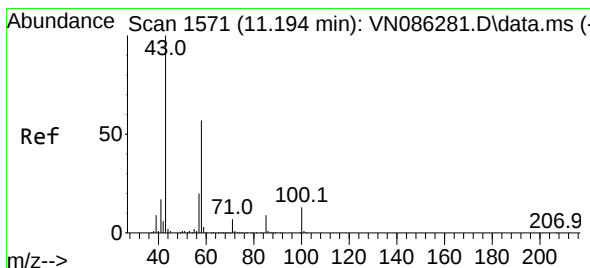
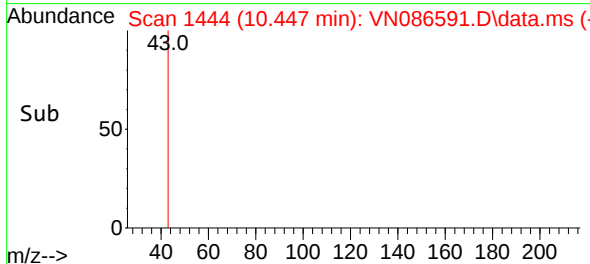
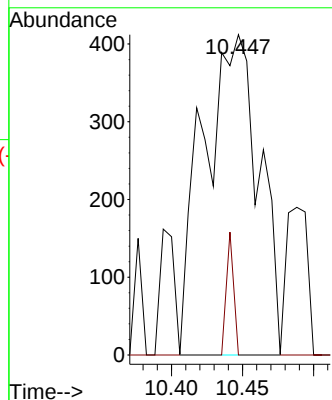
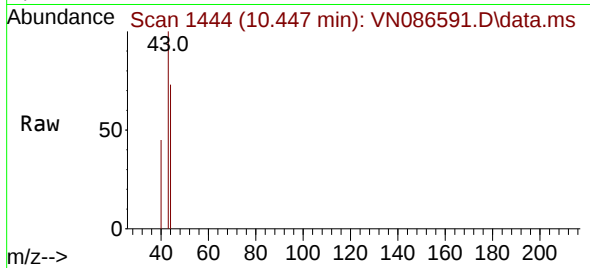




#51
4-Methyl-2-Pentanone
Concen: 0.310 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.006 min
Lab File: VN086591.D
Acq: 13 May 2025 10:57

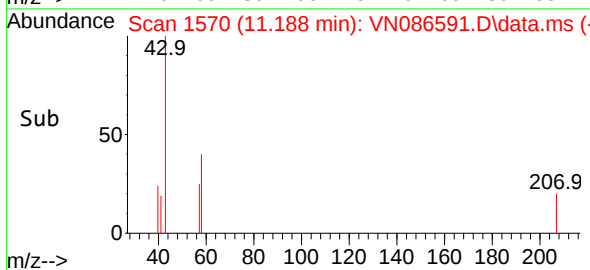
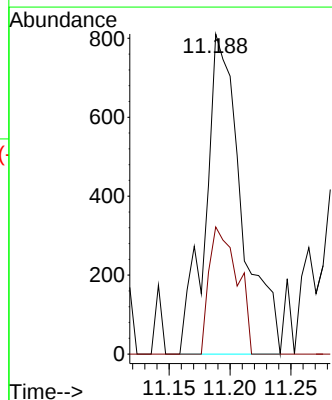
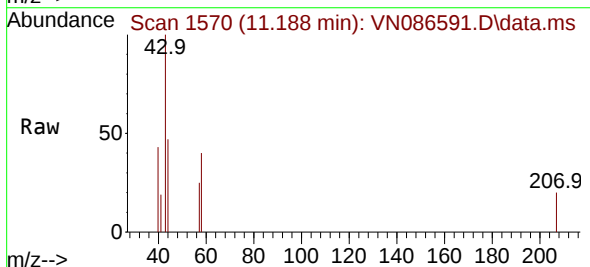
Instrument :
MSVOA_N
ClientSampleId :
VN0513MBL01

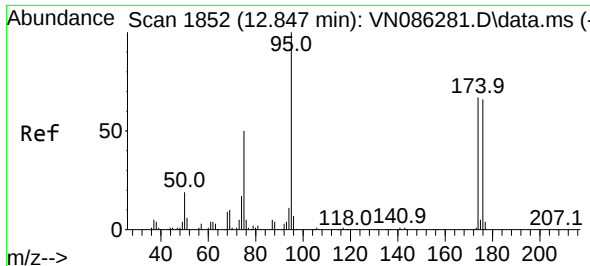
Tgt Ion: 43 Resp: 1130
Ion Ratio Lower Upper
43 100
58 0.0 32.2 48.4#



#59
2-Hexanone
Concen: 0.619 ug/l
RT: 11.188 min Scan# 1570
Delta R.T. -0.006 min
Lab File: VN086591.D
Acq: 13 May 2025 10:57

Tgt Ion: 43 Resp: 1677
Ion Ratio Lower Upper
43 100
58 30.9 28.3 85.0

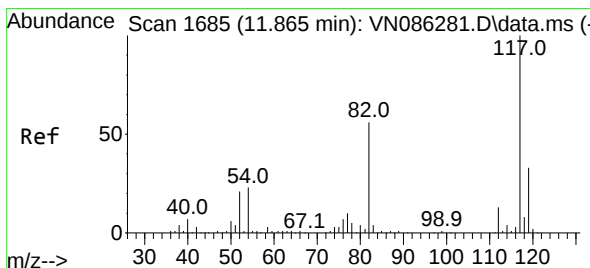
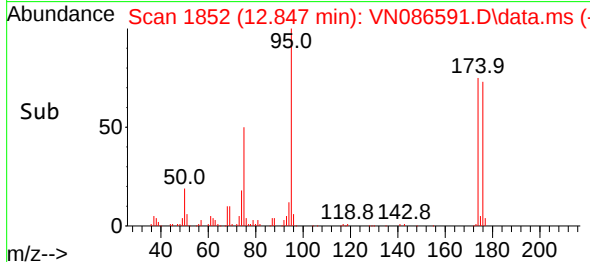
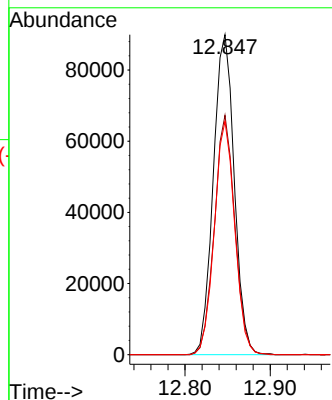
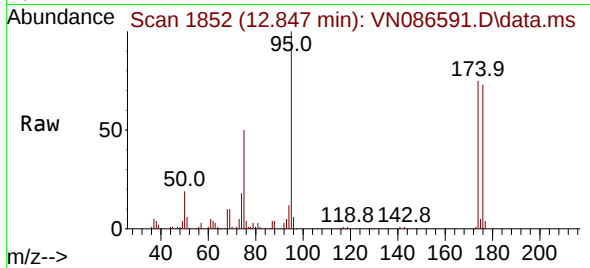




#62
4-Bromofluorobenzene
Concen: 46.480 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086591.D
Acq: 13 May 2025 10:57

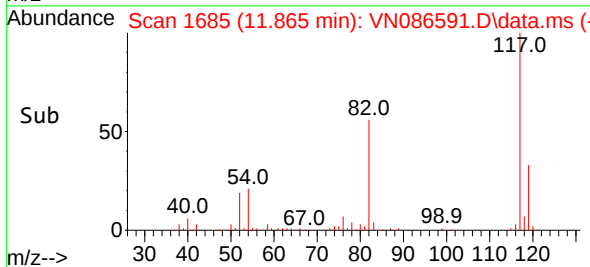
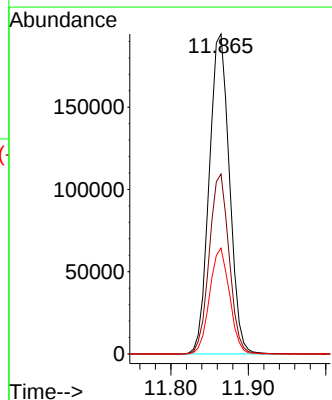
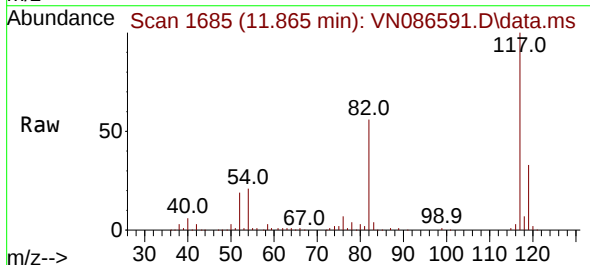
Instrument :
MSVOA_N
ClientSampleId :
VN0513MBL01

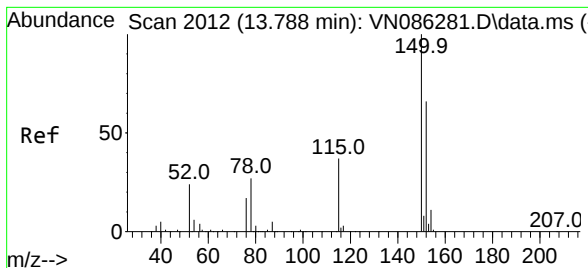
Tgt Ion: 95 Resp: 153620
Ion Ratio Lower Upper
95 100
174 73.1 0.0 133.4
176 71.0 0.0 129.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086591.D
Acq: 13 May 2025 10:57

Tgt Ion: 117 Resp: 352602
Ion Ratio Lower Upper
117 100
82 56.3 44.7 67.1
119 33.0 26.4 39.6

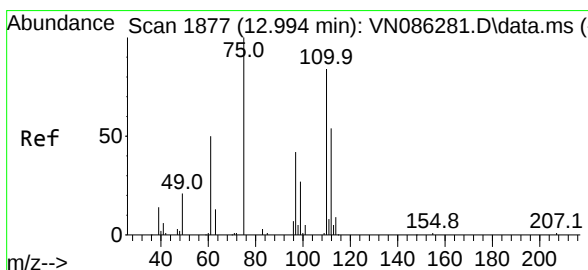
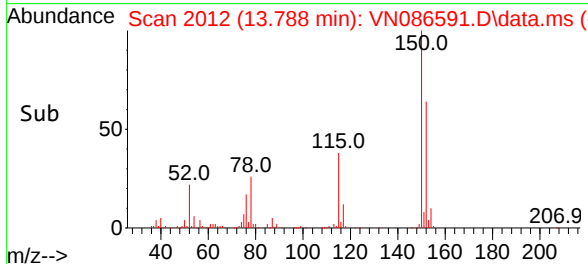
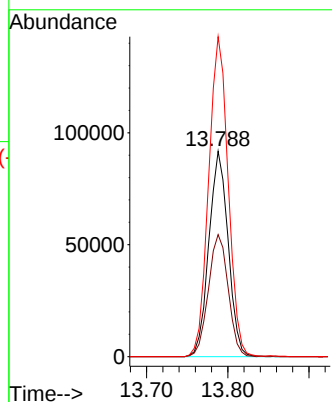
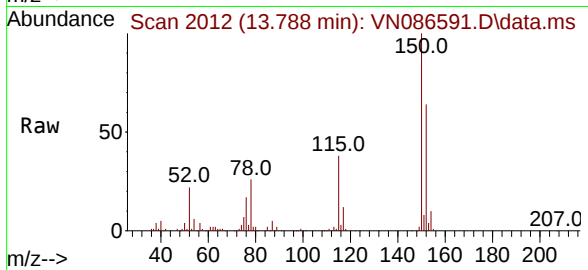




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.788 min Scan# 2012
 Delta R.T. -0.000 min
 Lab File: VN086591.D
 Acq: 13 May 2025 10:57

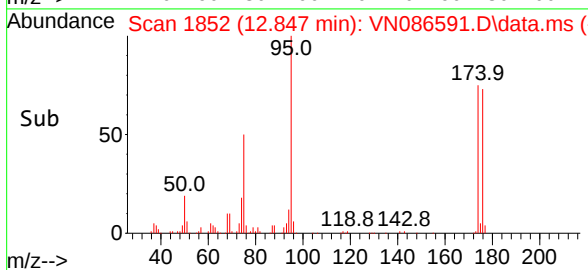
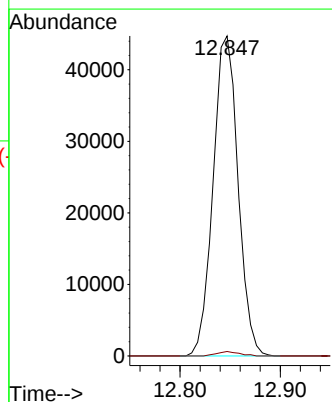
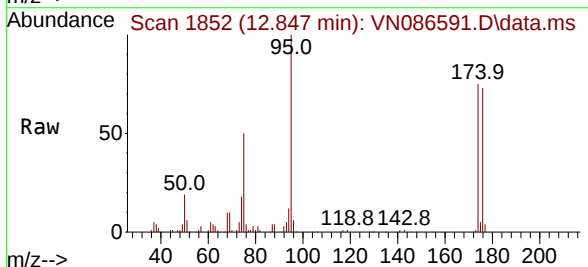
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0513MBL01

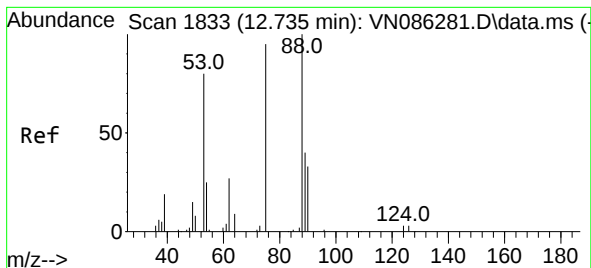
Tgt Ion:152 Resp: 151057
 Ion Ratio Lower Upper
 152 100
 115 61.0 31.9 95.9
 150 157.6 0.0 352.0



#76
 1,2,3-Trichloropropane
 Concen: 21.688 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. -0.147 min
 Lab File: VN086591.D
 Acq: 13 May 2025 10:57

Tgt Ion: 75 Resp: 77312
 Ion Ratio Lower Upper
 75 100
 77 1.3 98.8 296.4#

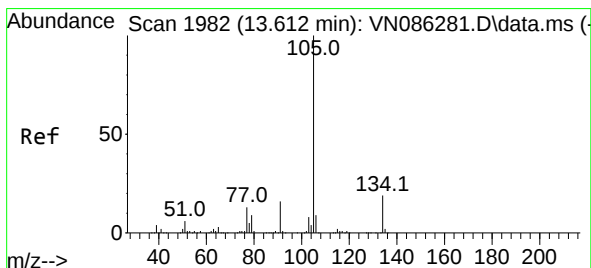
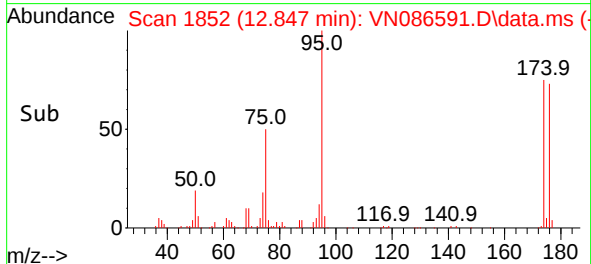
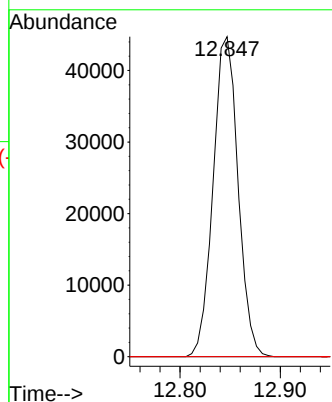
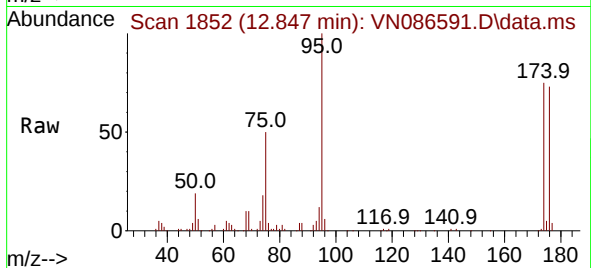




#81
trans-1,4-Dichloro-2-butene
Concen: 52.087 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086591.D
Acq: 13 May 2025 10:57

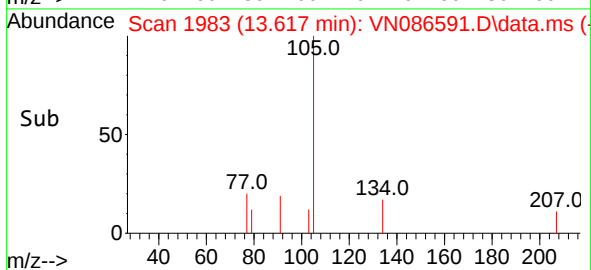
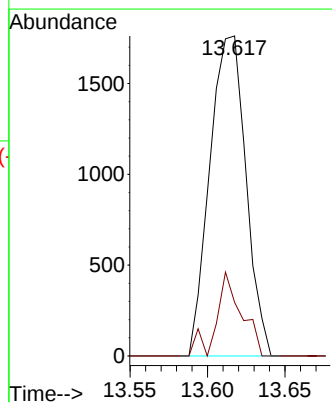
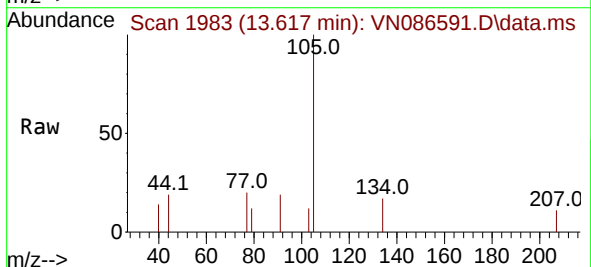
Instrument :
MSVOA_N
ClientSampleId :
VN0513MBL01

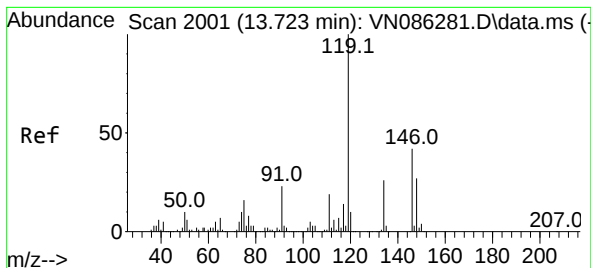
Tgt Ion: 75 Resp: 77312
Ion Ratio Lower Upper
75 100
53 0.0 79.2 118.8#
89 0.0 35.7 53.5#



#85
sec-Butylbenzene
Concen: 0.235 ug/l
RT: 13.617 min Scan# 1983
Delta R.T. 0.006 min
Lab File: VN086591.D
Acq: 13 May 2025 10:57

Tgt Ion:105 Resp: 2855
Ion Ratio Lower Upper
105 100
134 18.3 9.7 29.1

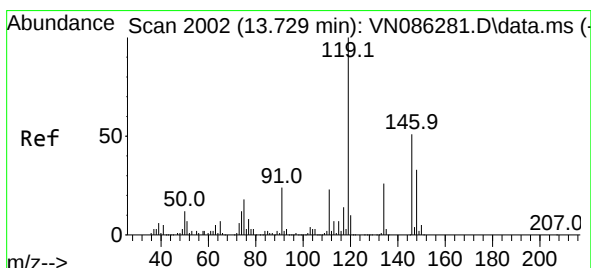
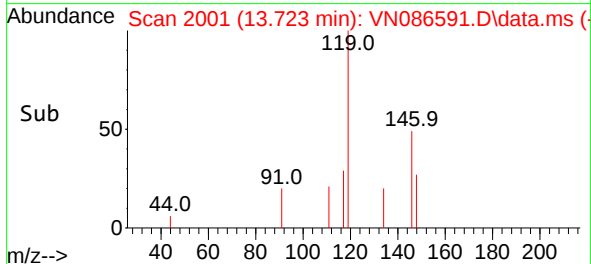
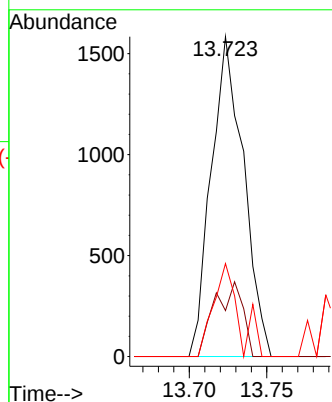
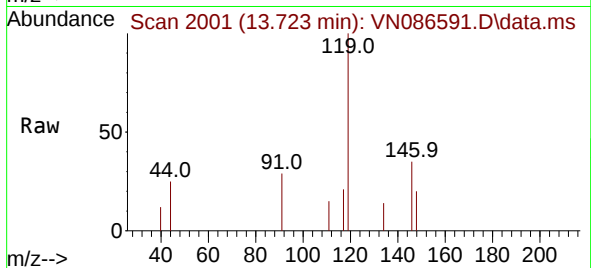




#86
 p-Isopropyltoluene
 Concen: 0.229 ug/l
 RT: 13.723 min Scan# 2001
 Delta R.T. -0.000 min
 Lab File: VN086591.D
 Acq: 13 May 2025 10:57

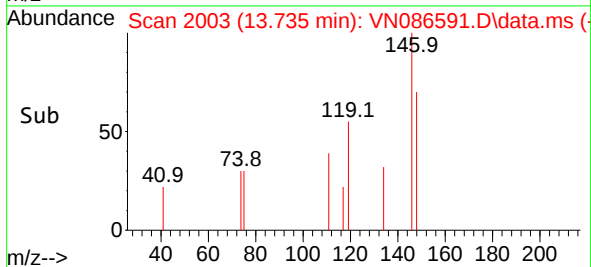
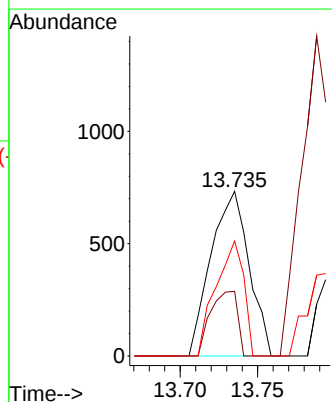
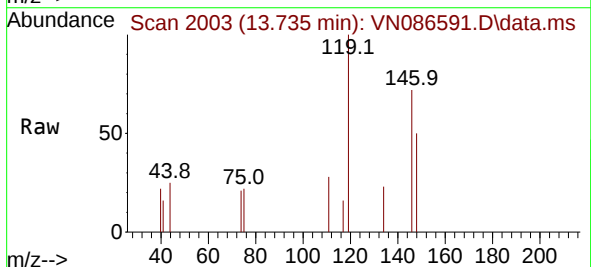
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0513MBL01

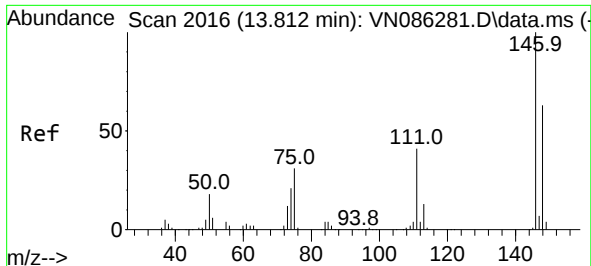
Tgt Ion:	119	Resp:	2296
Ion	Ratio	Lower	Upper
119	100		
134	20.3	13.1	39.1
91	22.9	11.9	35.9



#87
 1,3-Dichlorobenzene
 Concen: 0.243 ug/l
 RT: 13.735 min Scan# 2003
 Delta R.T. 0.006 min
 Lab File: VN086591.D
 Acq: 13 May 2025 10:57

Tgt Ion:	146	Resp:	1250
Ion	Ratio	Lower	Upper
146	100		
111	27.8	21.9	65.7
148	51.2	31.9	95.5

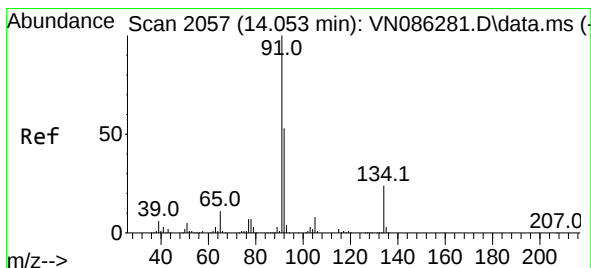
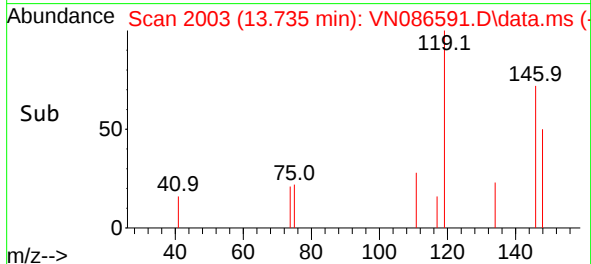
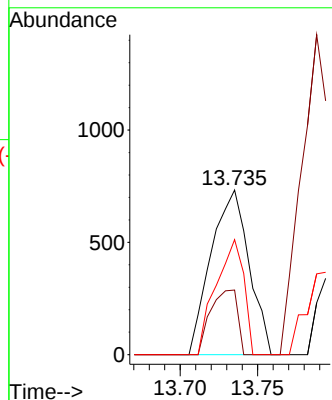
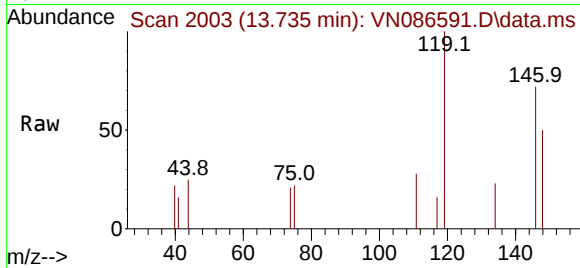




#88
1,4-Dichlorobenzene
Concen: 0.241 ug/l
RT: 13.735 min Scan# 2016
Delta R.T. -0.077 min
Lab File: VN086591.D
Acq: 13 May 2025 10:57

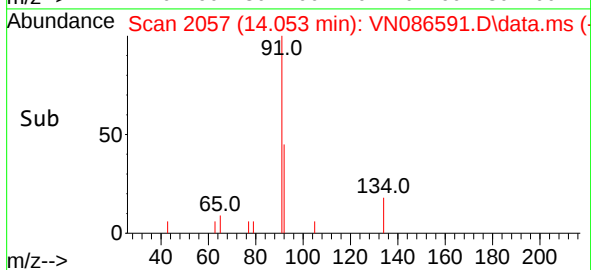
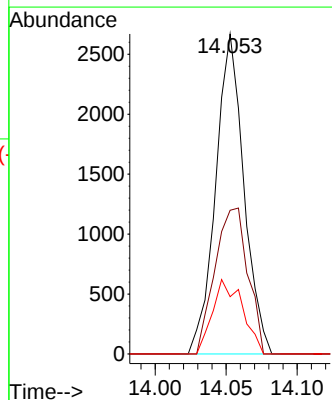
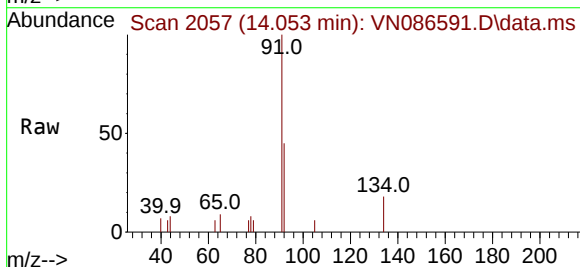
Instrument :
MSVOA_N
ClientSampleId :
VN0513MBL01

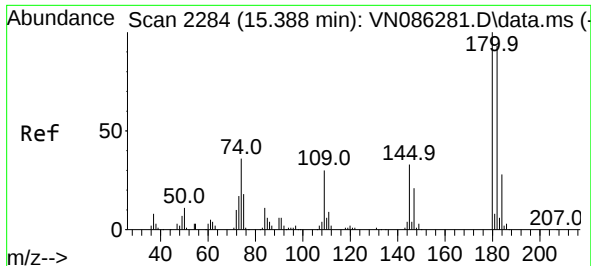
Tgt Ion:146 Resp: 1250
Ion Ratio Lower Upper
146 100
111 27.8 21.3 63.9
148 51.2 31.9 95.9



#89
n-Butylbenzene
Concen: 0.415 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. -0.000 min
Lab File: VN086591.D
Acq: 13 May 2025 10:57

Tgt Ion: 91 Resp: 3686
Ion Ratio Lower Upper
91 100
92 53.2 26.8 80.4
134 24.8 12.2 36.6

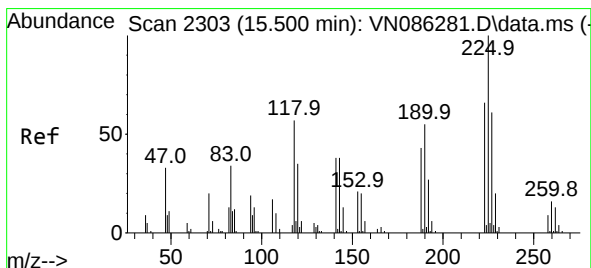
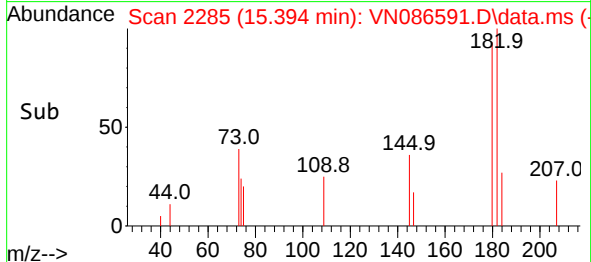
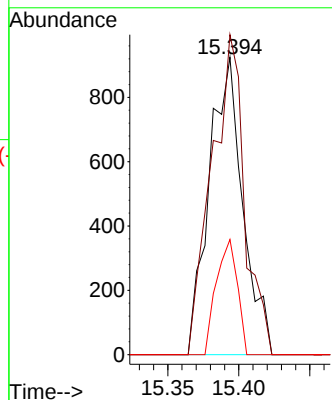
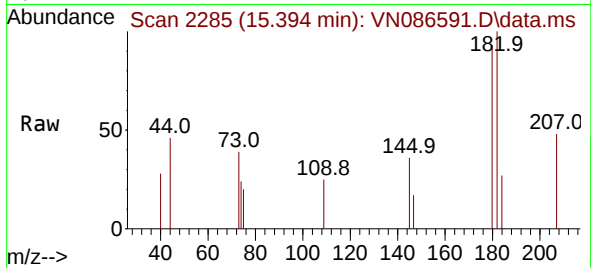




#93
 1,2,4-Trichlorobenzene
 Concen: 0.638 ug/l
 RT: 15.394 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VN086591.D
 Acq: 13 May 2025 10:57

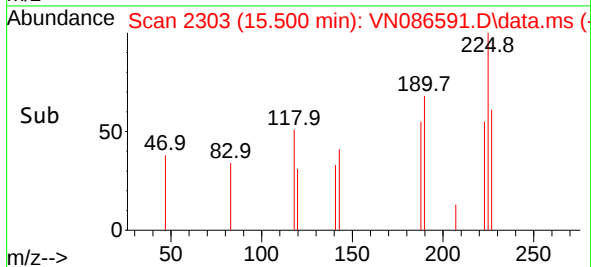
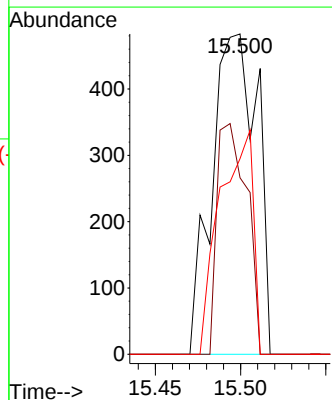
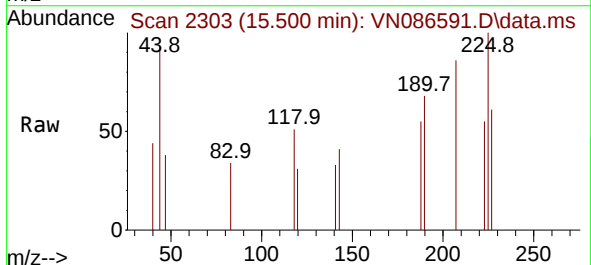
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0513MBL01

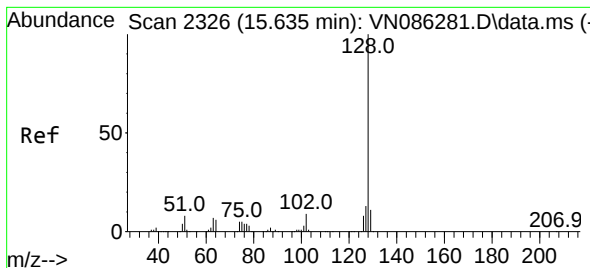
Tgt Ion:180 Resp: 1524
 Ion Ratio Lower Upper
 180 100
 182 104.9 47.0 141.0
 145 24.1 16.4 49.1



#94
 Hexachlorobutadiene
 Concen: 0.989 ug/l
 RT: 15.500 min Scan# 2303
 Delta R.T. -0.000 min
 Lab File: VN086591.D
 Acq: 13 May 2025 10:57

Tgt Ion:225 Resp: 892
 Ion Ratio Lower Upper
 225 100
 223 47.3 32.8 98.3
 227 51.3 31.4 94.0





#95

Naphthalene

Concen: 0.926 ug/l

RT: 15.635 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN086591.D

Acq: 13 May 2025 10:57

Instrument :

MSVOA_N

ClientSampleId :

VN0513MBL01

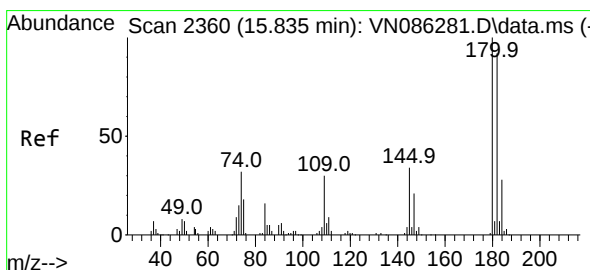
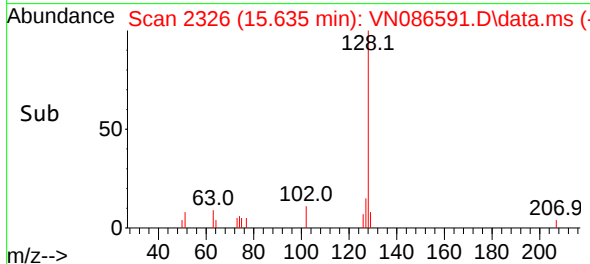
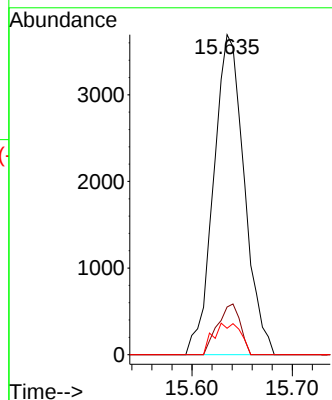
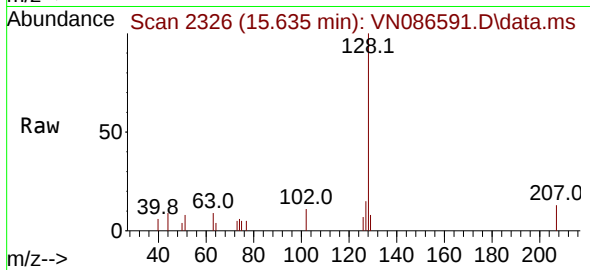
Tgt Ion:128 Resp: 7844

Ion Ratio Lower Upper

128 100

127 11.7 10.2 15.4

129 8.7 8.6 13.0



#96

1,2,3-Trichlorobenzene

Concen: 0.797 ug/l

RT: 15.841 min Scan# 2361

Delta R.T. 0.006 min

Lab File: VN086591.D

Acq: 13 May 2025 10:57

Tgt Ion:180 Resp: 1803

Ion Ratio Lower Upper

180 100

182 93.0 47.3 142.0

145 28.7 17.2 51.5

