

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041725\
 Data File : VN086314.D
 Acq On : 17 Apr 2025 11:55
 Operator : JC\MD
 Sample : VN0417MBL01
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 18 01:30:02 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)

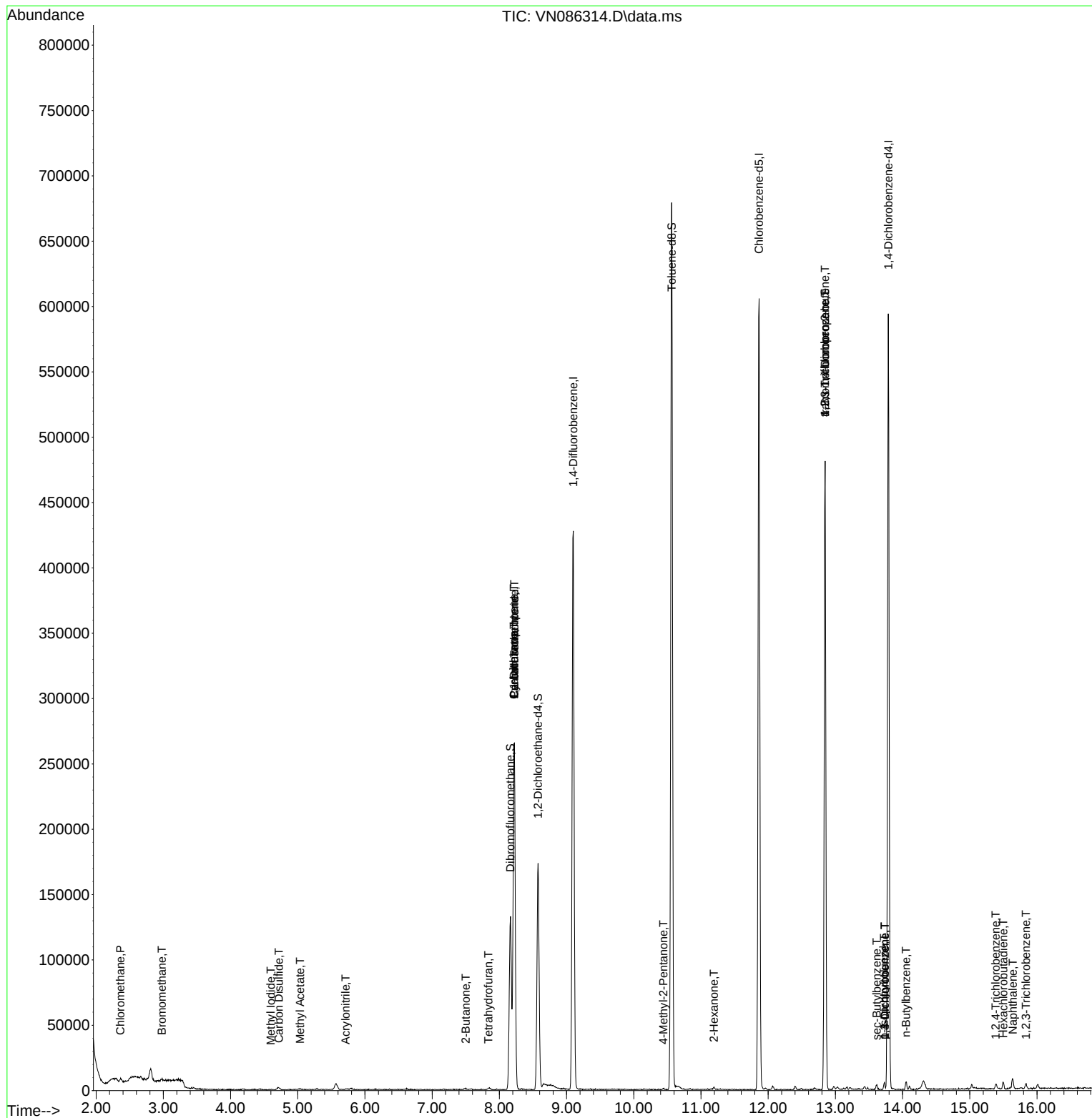
Internal Standards						
1) Pentafluorobenzene	8.224	168	194994	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	380550	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	352484	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	157543	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	141810	50.152	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.300%			
35) Dibromofluoromethane	8.165	113	98175	55.586	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 111.180%			
50) Toluene-d8	10.565	98	480093	50.861	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.720%			
62) 4-Bromofluorobenzene	12.847	95	179549	52.150	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 104.300%			
Target Compounds						Qvalue
3) Chloromethane	2.359	50	1691	0.503	ug/l	100
5) Bromomethane	2.977	94	1117	0.775	ug/l #	79
10) Methyl Iodide	4.600	142	961	0.407	ug/l #	42
13) Acrolein	4.189	56	293	Below Cal	#	1
15) Acrylonitrile	5.712	53	433	0.340	ug/l #	67
16) Acetone	4.442	43	1387	Below Cal		90
17) Carbon Disulfide	4.718	76	3836	0.558	ug/l #	74
18) Methyl Acetate	5.036	43	928	0.273	ug/l #	51
25) 2-Butanone	7.500	43	1264	0.718	ug/l #	48
29) Tetrahydrofuran	7.835	42	1158	0.984	ug/l #	49
31) Cyclohexane	8.218	56	4832	1.054	ug/l #	1
36) 1,1-Dichloropropene	8.218	75	17523	4.967	ug/l #	49
38) Carbon Tetrachloride	8.224	117	20484	6.097	ug/l #	16
43) Isopropyl Acetate	8.682	43	5679	Below Cal	#	55
51) 4-Methyl-2-Pentanone	10.441	43	1404	0.369	ug/l #	55
59) 2-Hexanone	11.194	43	1543	0.547	ug/l	72
76) 1,2,3-Trichloropropane	12.847	75	90879	24.444	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	90879	58.706	ug/l #	10
85) sec-Butylbenzene	13.617	105	2974	0.235	ug/l	98
86) p-Isopropyltoluene	13.723	119	2221	0.213	ug/l	92
87) 1,3-Dichlorobenzene	13.735	146	1252	0.233	ug/l	89
88) 1,4-Dichlorobenzene	13.735	146	1252	0.232	ug/l	89
89) n-Butylbenzene	14.053	91	3692	0.399	ug/l	98
93) 1,2,4-Trichlorobenzene	15.388	180	1697	0.681	ug/l	91
94) Hexachlorobutadiene	15.500	225	1170	1.244	ug/l	90
95) Naphthalene	15.641	128	8076	0.914	ug/l	95
96) 1,2,3-Trichlorobenzene	15.835	180	1731	0.734	ug/l	98

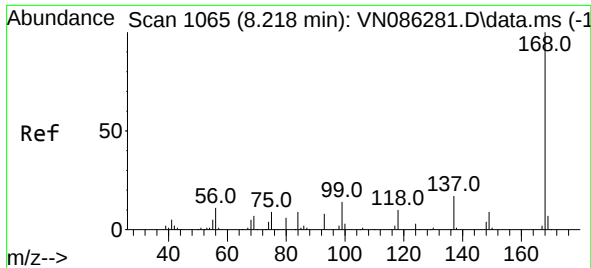
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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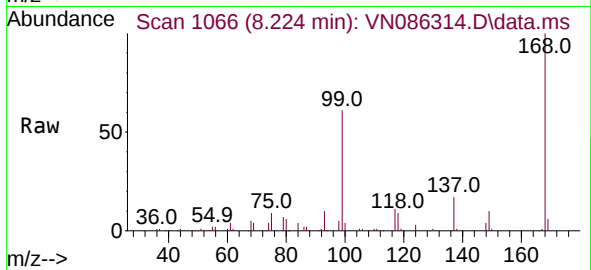
Quant Time: Apr 18 01:30:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260
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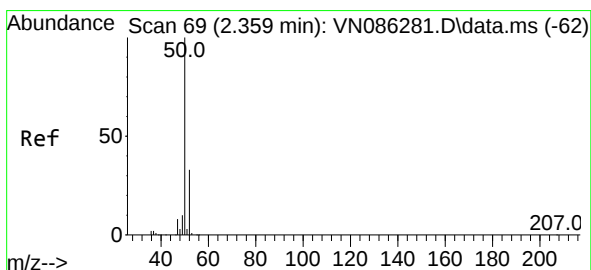
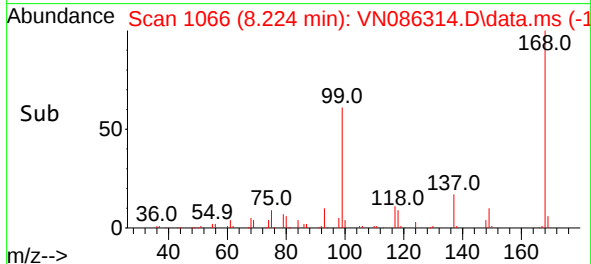
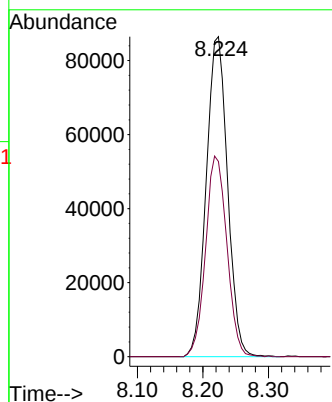


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN086314.D
Acq: 17 Apr 2025 11:55

Instrument :
MSVOA_N
ClientSampleId :

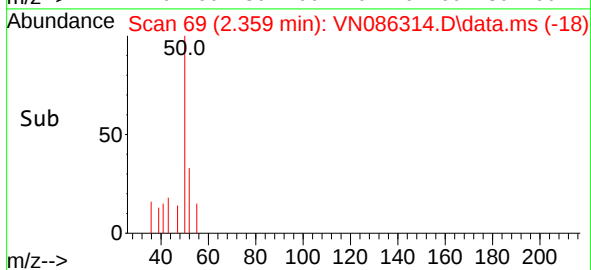
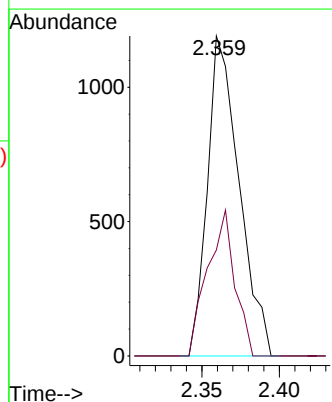
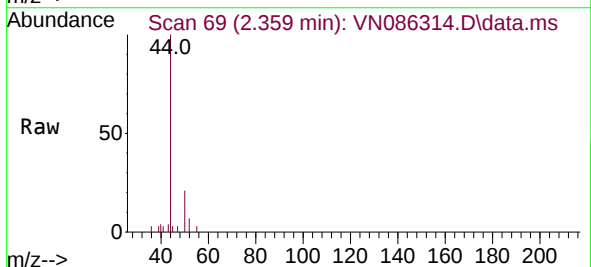


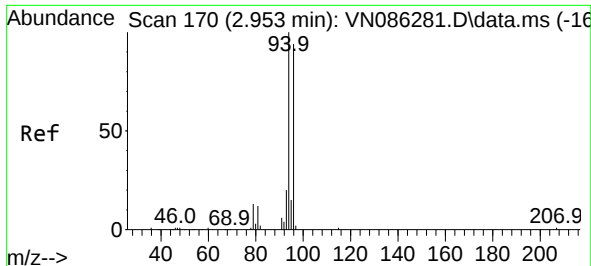
Tgt Ion:168 Resp: 194994
Ion Ratio Lower Upper
168 100
99 61.0 52.5 78.7



#3
Chloromethane
Concen: 0.503 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN086314.D
Acq: 17 Apr 2025 11:55

Tgt Ion: 50 Resp: 1691
Ion Ratio Lower Upper
50 100
52 33.1 26.5 39.7

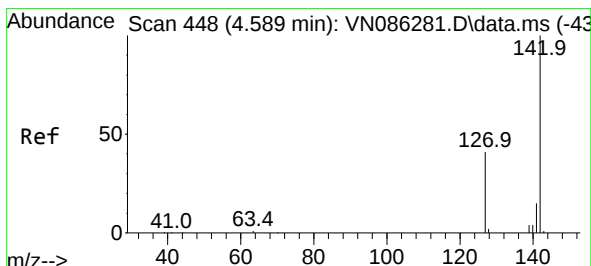
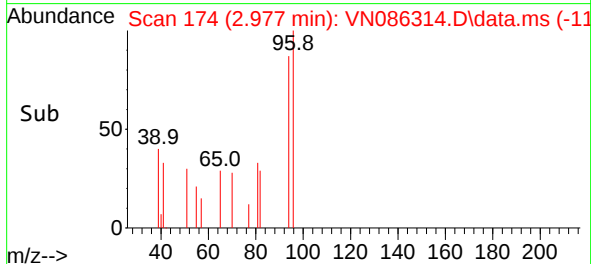
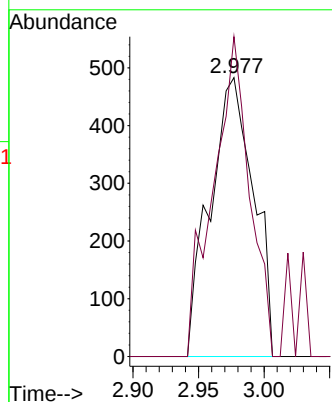
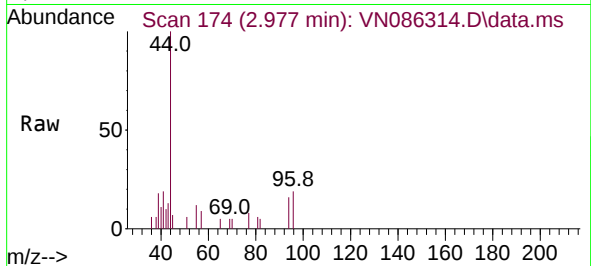




#5
Bromomethane
Concen: 0.775 ug/l
RT: 2.977 min Scan# 11
Delta R.T. 0.023 min
Lab File: VN086314.D
Acq: 17 Apr 2025 11:55

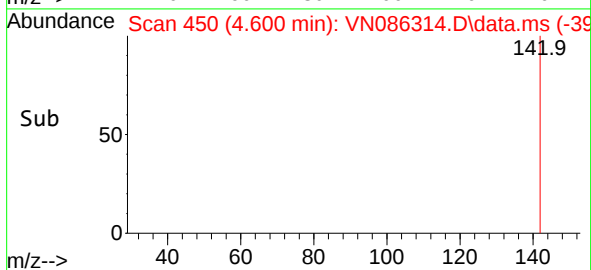
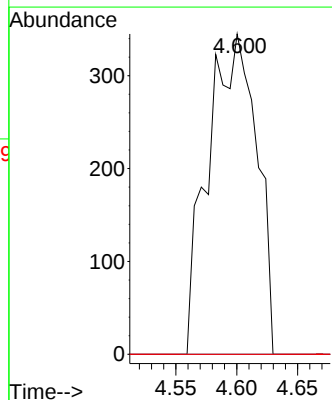
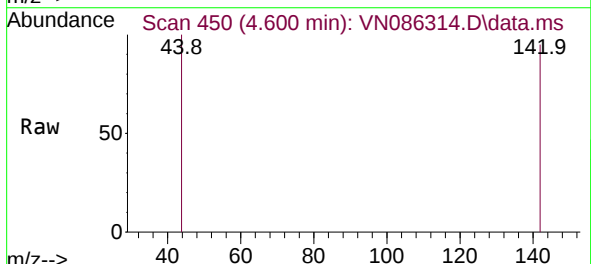
Instrument :
MSVOA_N
ClientSampleId :

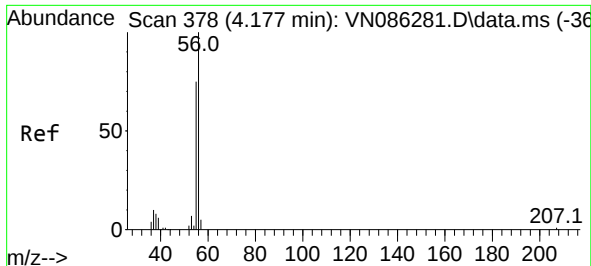
Tgt Ion: 94 Resp: 1117
Ion Ratio Lower Upper
94 100
96 114.7 75.2 112.8#



#10
Methyl Iodide
Concen: 0.407 ug/l
RT: 4.600 min Scan# 450
Delta R.T. 0.012 min
Lab File: VN086314.D
Acq: 17 Apr 2025 11:55

Tgt Ion:142 Resp: 961
Ion Ratio Lower Upper
142 100
127 0.0 32.7 49.1#
141 0.0 11.7 17.5#

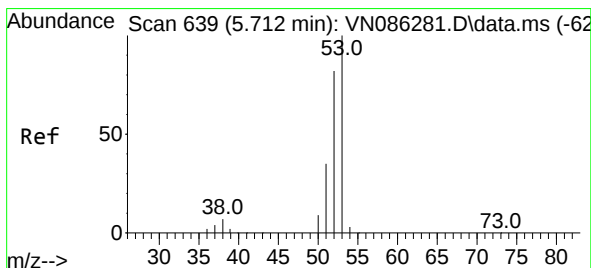
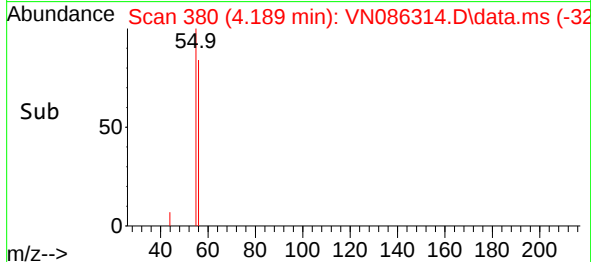
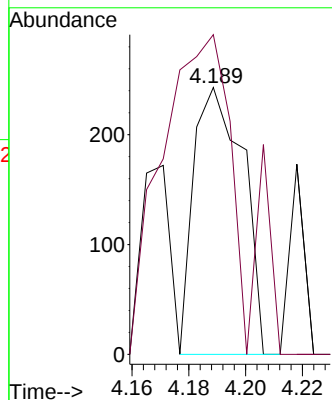
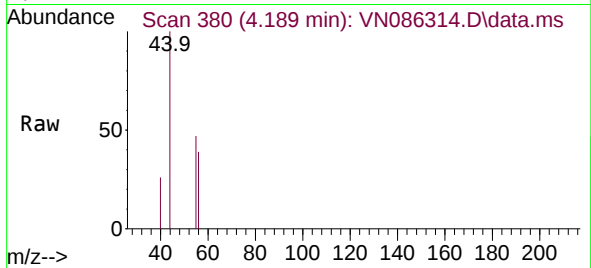




#13
Acrolein
Concen: Below Cal
RT: 4.189 min Scan# 378
Delta R.T. 0.012 min
Lab File: VN086314.D
Acq: 17 Apr 2025 11:55

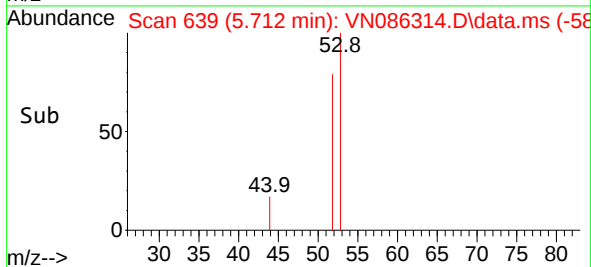
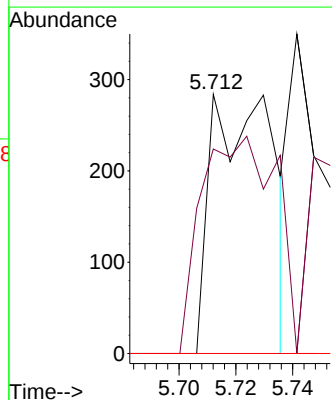
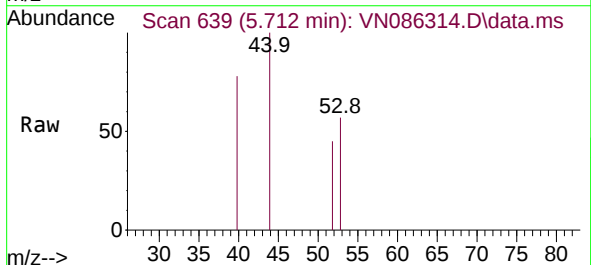
Instrument :
MSVOA_N
ClientSampleId :

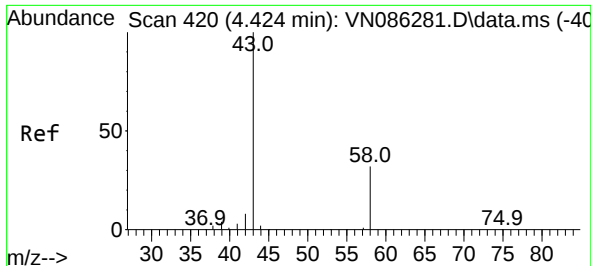
Tgt Ion: 56 Resp: 293
Ion Ratio Lower Upper
56 100
55 187.0 58.5 87.7#



#15
Acrylonitrile
Concen: 0.340 ug/l
RT: 5.712 min Scan# 639
Delta R.T. -0.000 min
Lab File: VN086314.D
Acq: 17 Apr 2025 11:55

Tgt Ion: 53 Resp: 433
Ion Ratio Lower Upper
53 100
52 100.5 65.5 98.3#
51 0.0 28.6 42.8#

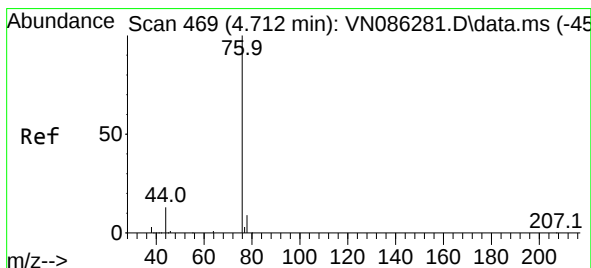
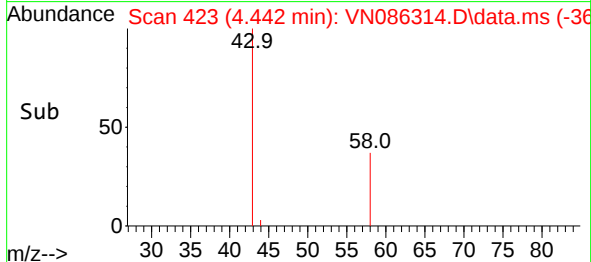
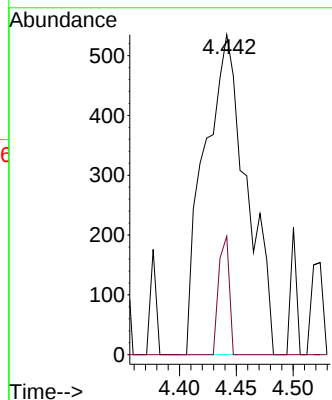
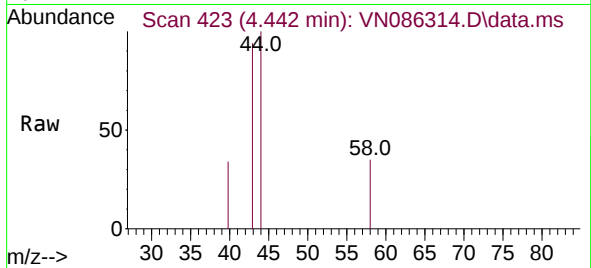




#16
Acetone
Concen: Below Cal
RT: 4.442 min Scan# 41
Delta R.T. 0.018 min
Lab File: VN086314.D
Acq: 17 Apr 2025 11:55

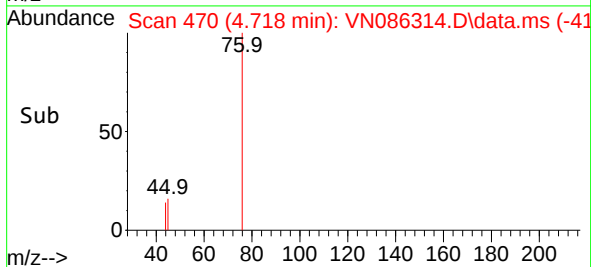
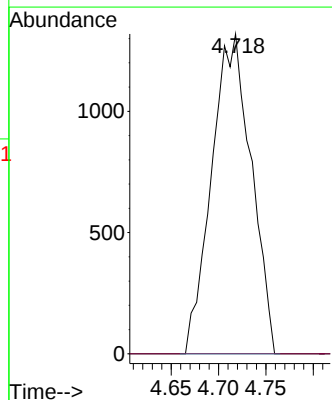
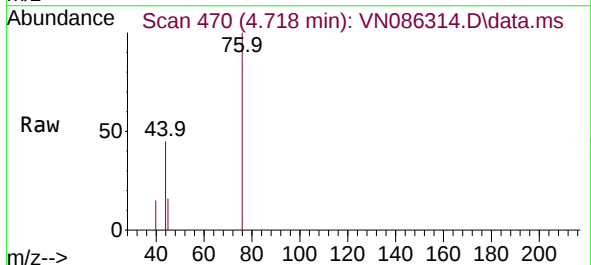
Instrument :
MSVOA_N
ClientSampleId :

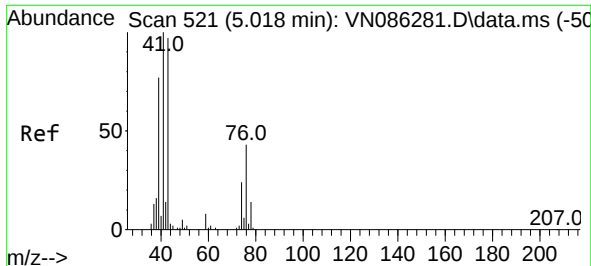
Tgt Ion: 43 Resp: 1387
Ion Ratio Lower Upper
43 100
58 37.0 25.3 37.9



#17
Carbon Disulfide
Concen: 0.558 ug/l
RT: 4.718 min Scan# 470
Delta R.T. 0.006 min
Lab File: VN086314.D
Acq: 17 Apr 2025 11:55

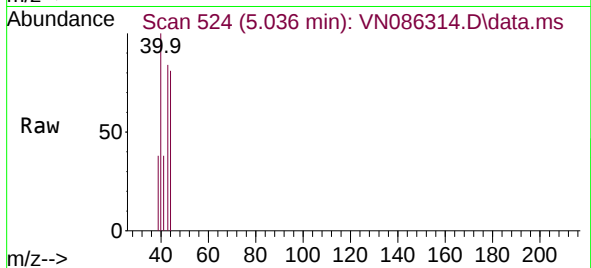
Tgt Ion: 76 Resp: 3836
Ion Ratio Lower Upper
76 100
78 0.0 7.6 11.4#



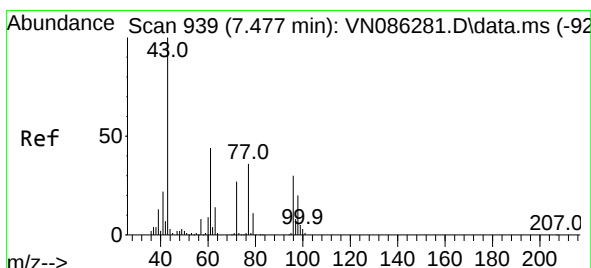
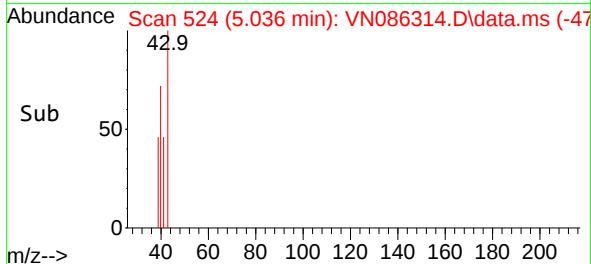
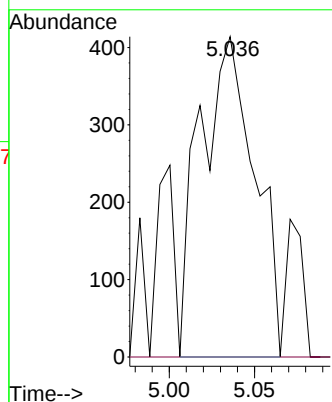


#18
Methyl Acetate
Concen: 0.273 ug/l
RT: 5.036 min Scan# 51
Delta R.T. 0.018 min
Lab File: VN086314.D
Acq: 17 Apr 2025 11:55

Instrument :
MSVOA_N
ClientSampleId :

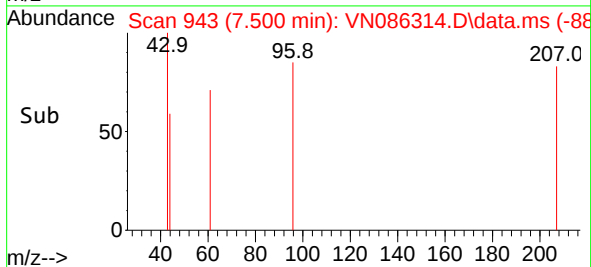
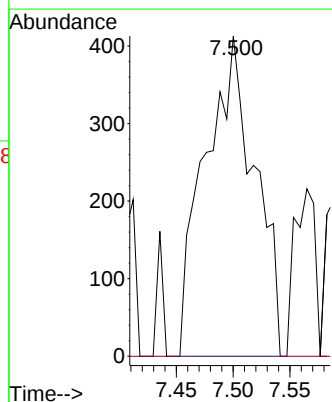
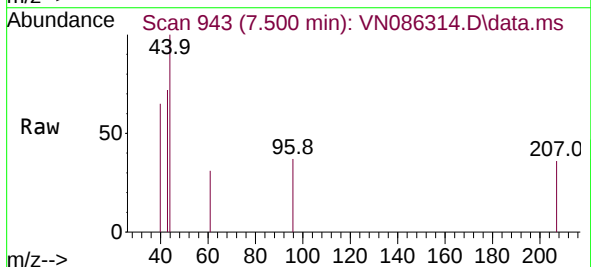


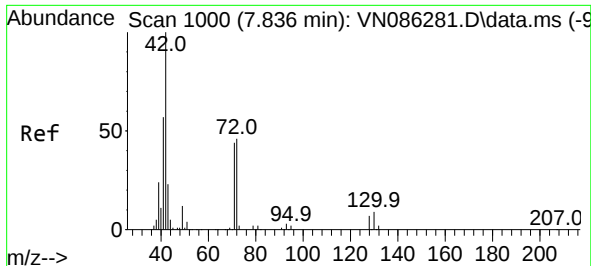
Tgt Ion: 43 Resp: 928
Ion Ratio Lower Upper
43 100
74 0.0 19.8 29.6#



#25
2-Butanone
Concen: 0.718 ug/l
RT: 7.500 min Scan# 943
Delta R.T. 0.023 min
Lab File: VN086314.D
Acq: 17 Apr 2025 11:55

Tgt Ion: 43 Resp: 1264
Ion Ratio Lower Upper
43 100
72 0.0 21.7 32.5#





#29

Tetrahydrofuran

Concen: 0.984 ug/l

RT: 7.835 min Scan# 1065

Delta R.T. -0.000 min

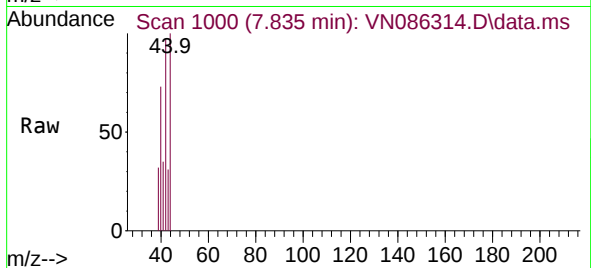
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Acq: 17 Apr 2025 11:55

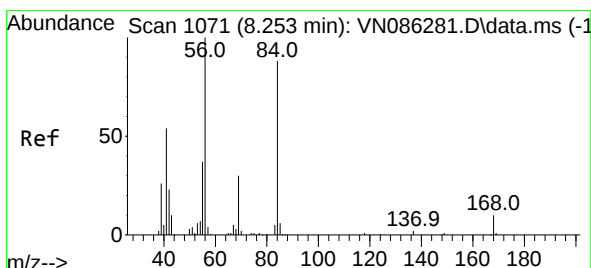
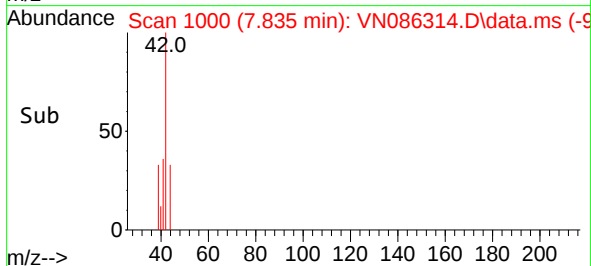
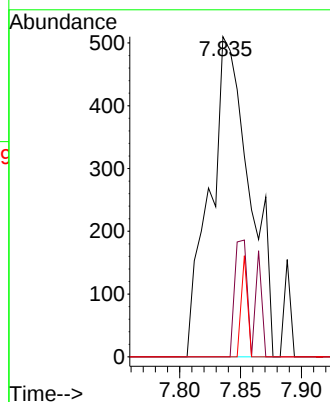
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	42	Resp:	1158
Ion Ratio	100	Lower	Upper
42	100		
72	16.4	36.2	54.4#
71	4.9	34.0	51.0#



#31

Cyclohexane

Concen: 1.054 ug/l

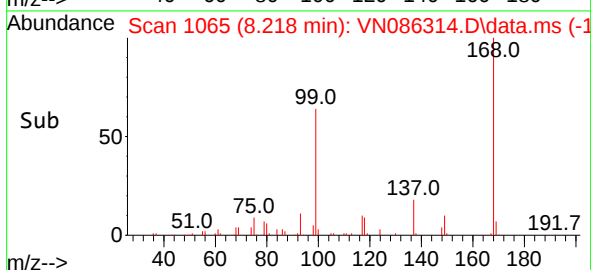
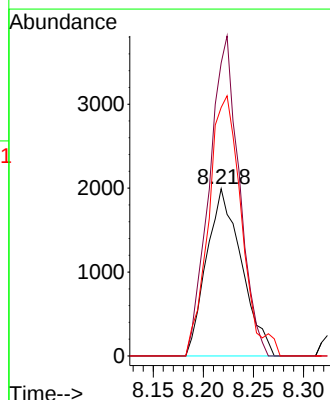
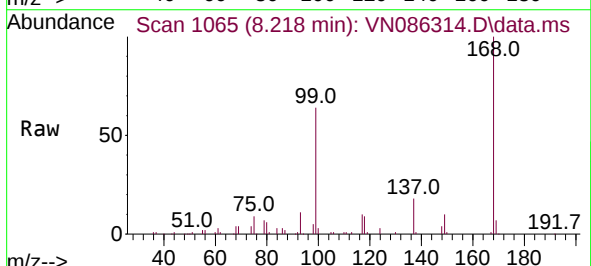
RT: 8.218 min Scan# 1065

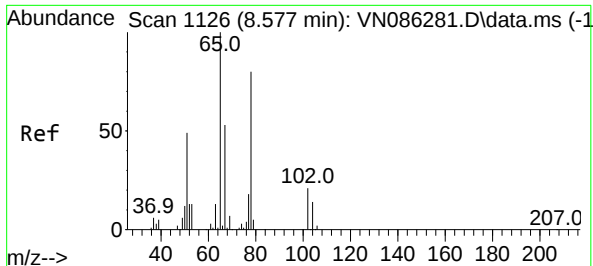
Delta R.T. -0.035 min

Lab File: VN086314.D

Acq: 17 Apr 2025 11:55

Tgt Ion:	56	Resp:	4832
Ion Ratio	100	Lower	Upper
56	100		
69	175.1	24.2	36.2#
84	148.5	70.3	105.5#





#33

1,2-Dichloroethane-d4

Concen: 50.152 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086314.D

Acq: 17 Apr 2025 11:55

Instrument :

MSVOA_N

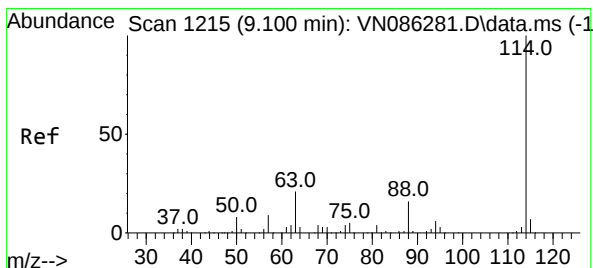
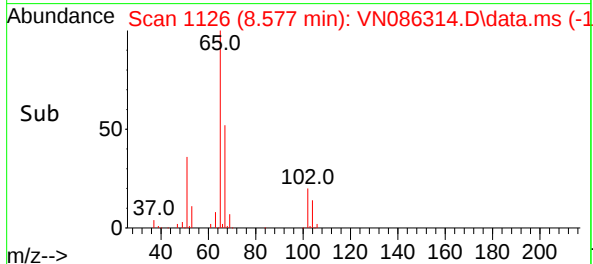
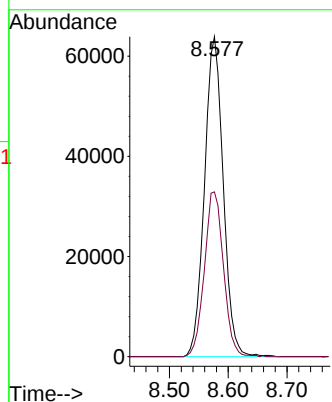
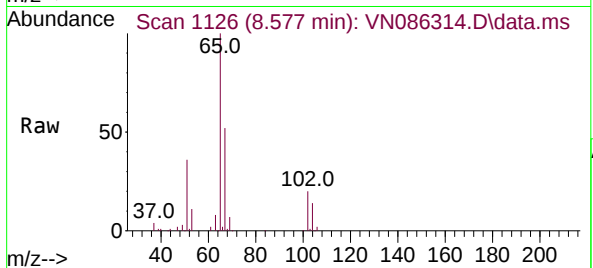
ClientSampleId :

Tgt Ion: 65 Resp: 141810

Ion Ratio Lower Upper

65 100

67 52.4 0.0 106.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN086314.D

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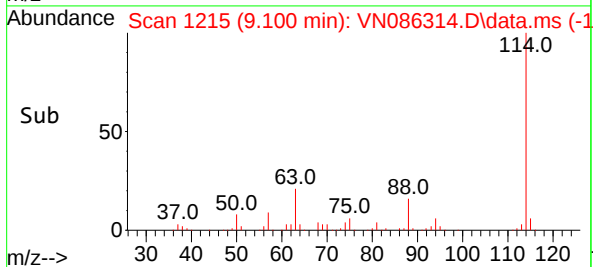
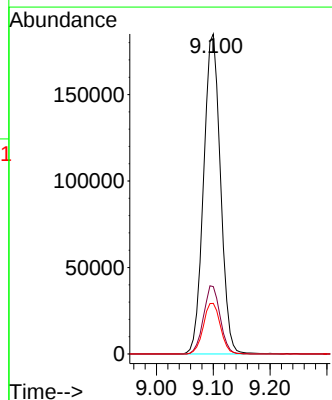
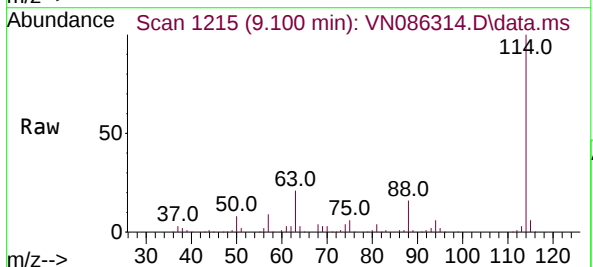
Tgt Ion: 114 Resp: 380550

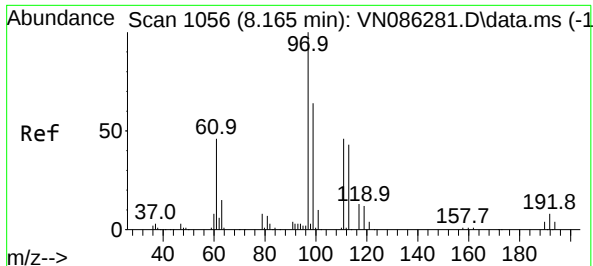
Ion Ratio Lower Upper

114 100

63 21.0 0.0 42.6

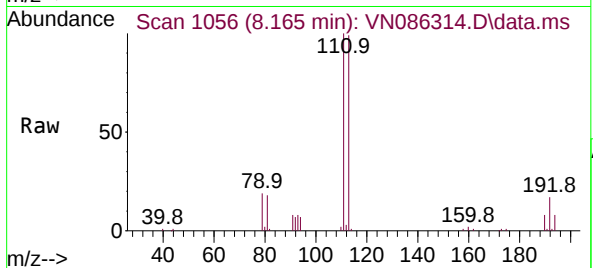
88 15.8 0.0 31.8



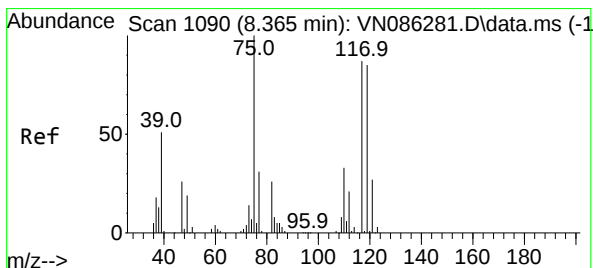
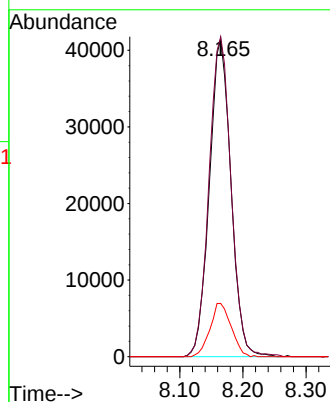
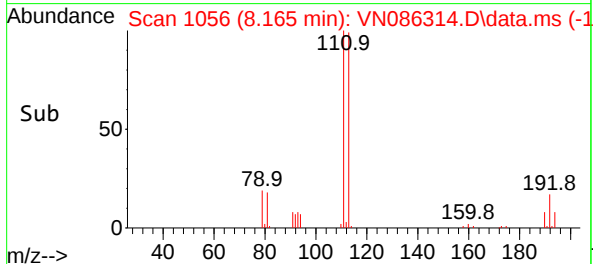


#35
Dibromofluoromethane
Concen: 55.586 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN086314.D
Acq: 17 Apr 2025 11:55

Instrument :
MSVOA_N
ClientSampleId :

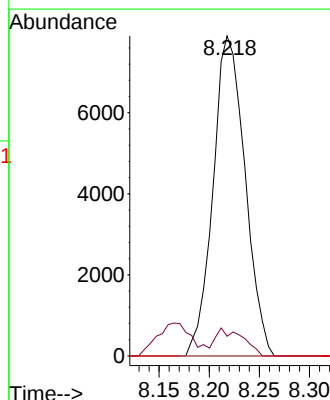
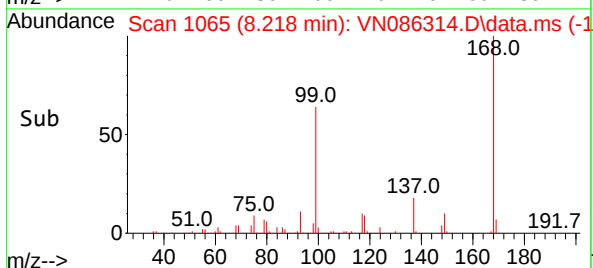
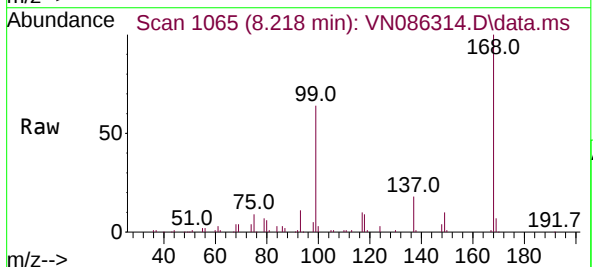


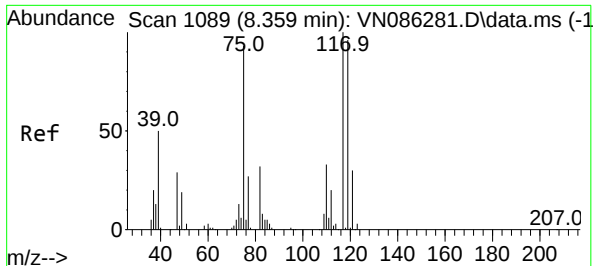
Tgt Ion:113 Resp: 98175
Ion Ratio Lower Upper
113 100
111 103.1 83.4 125.0
192 16.6 13.7 20.5



#36
1,1-Dichloropropene
Concen: 4.967 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.147 min
Lab File: VN086314.D
Acq: 17 Apr 2025 11:55

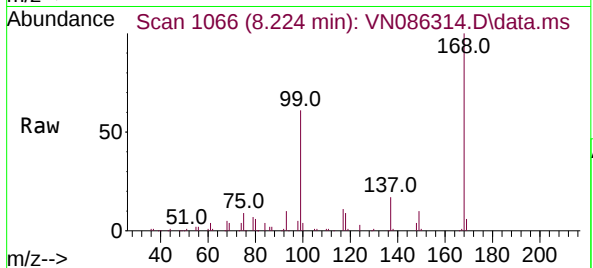
Tgt Ion: 75 Resp: 17523
Ion Ratio Lower Upper
75 100
110 7.3 16.8 50.4#
77 0.0 24.9 37.3#



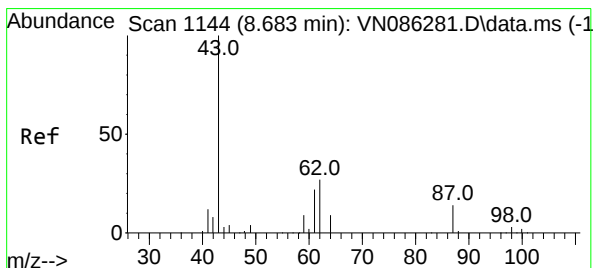
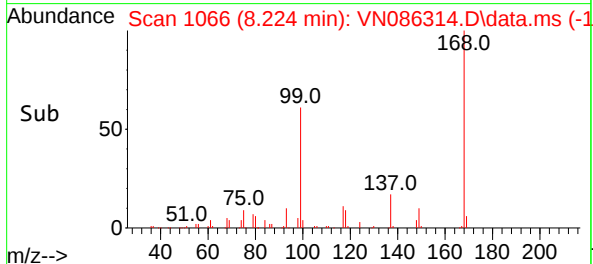
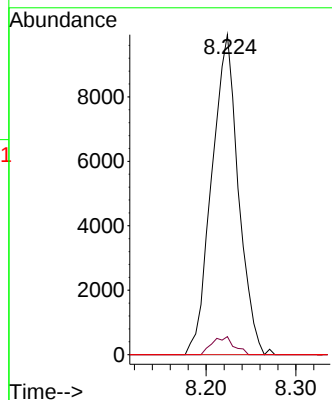


#38
Carbon Tetrachloride
Concen: 6.097 ug/l
RT: 8.224 min Scan# 1106
Delta R.T. -0.135 min
Lab File: VN086314.D
Acq: 17 Apr 2025 11:55

Instrument :
MSVOA_N
ClientSampleId :

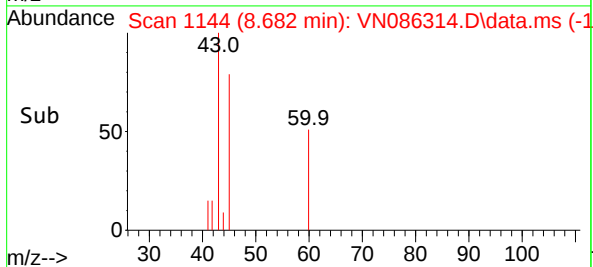
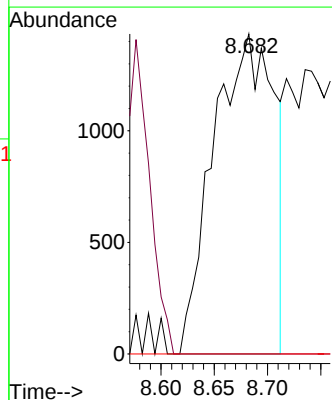
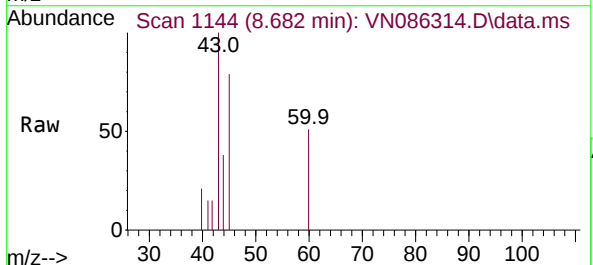


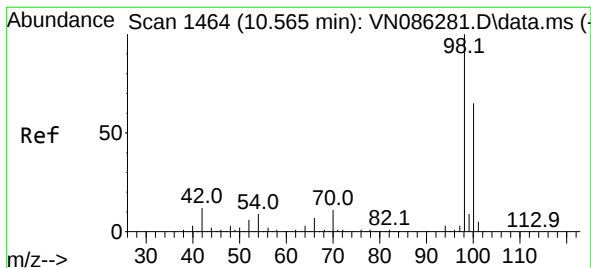
Tgt Ion:117 Resp: 20484
Ion Ratio Lower Upper
117 100
119 5.6 76.8 115.2#
121 0.0 23.8 35.8#



#43
Isopropyl Acetate
Concen: Below Cal
RT: 8.682 min Scan# 1144
Delta R.T. -0.001 min
Lab File: VN086314.D
Acq: 17 Apr 2025 11:55

Tgt Ion: 43 Resp: 5679
Ion Ratio Lower Upper
43 100
61 0.0 20.5 30.7#
87 0.0 10.5 15.7#

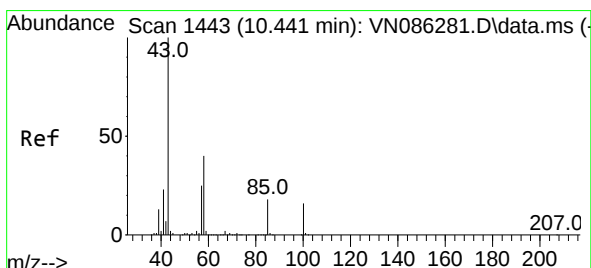
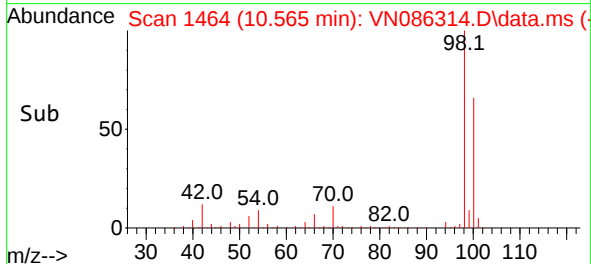
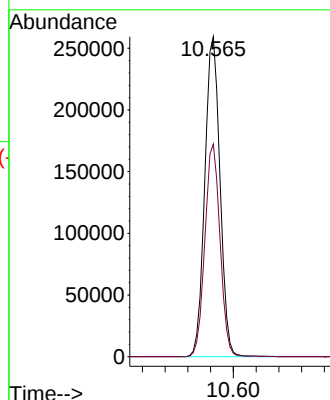
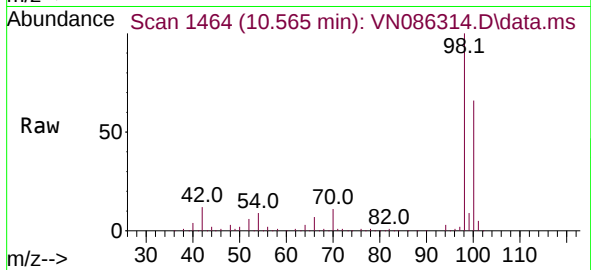




#50
Toluene-d8
Concen: 50.861 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086314.D
Acq: 17 Apr 2025 11:55

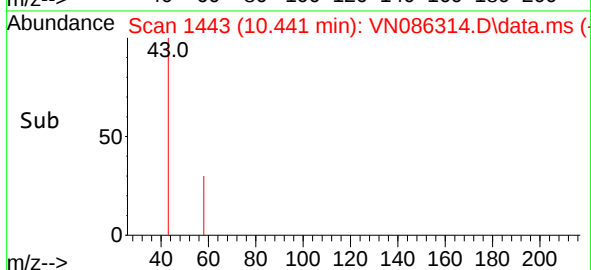
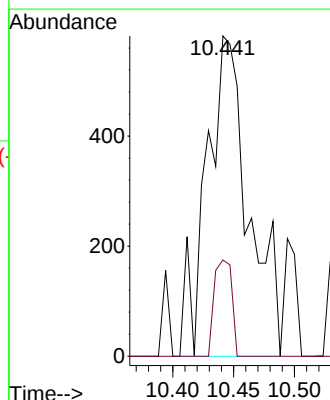
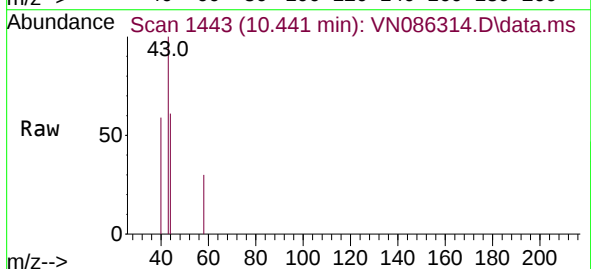
Instrument :
MSVOA_N
ClientSampleId :

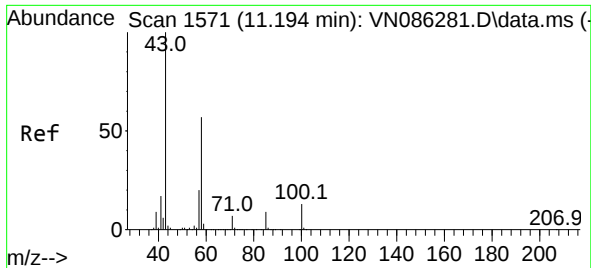
Tgt Ion: 98 Resp: 480093
Ion Ratio Lower Upper
98 100
100 66.3 52.5 78.7



#51
4-Methyl-2-Pentanone
Concen: 0.369 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086314.D
Acq: 17 Apr 2025 11:55

Tgt Ion: 43 Resp: 1404
Ion Ratio Lower Upper
43 100
58 12.5 32.2 48.4#

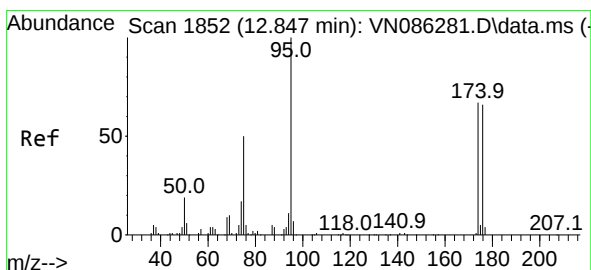
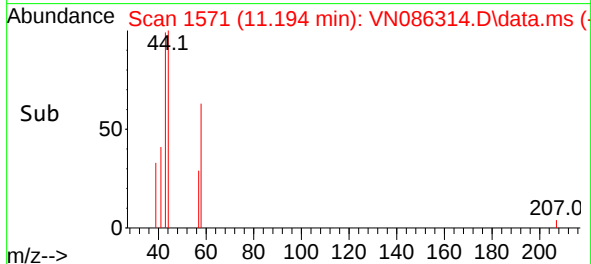
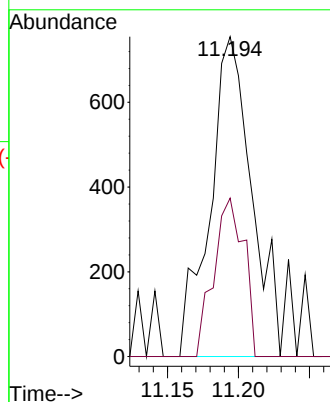
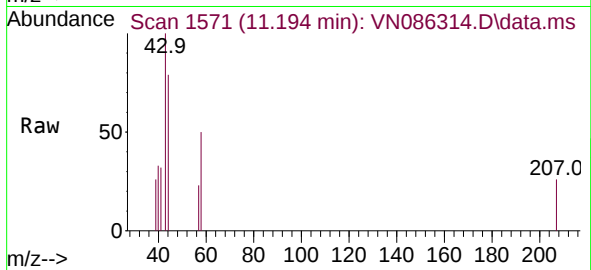




#59
2-Hexanone
Concen: 0.547 ug/l
RT: 11.194 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086314.D
Acq: 17 Apr 2025 11:55

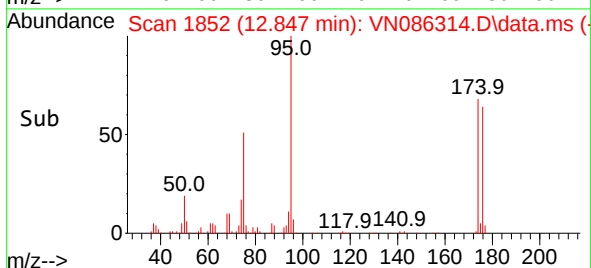
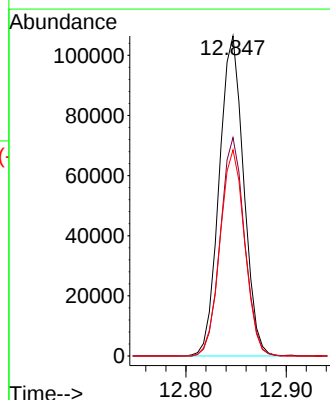
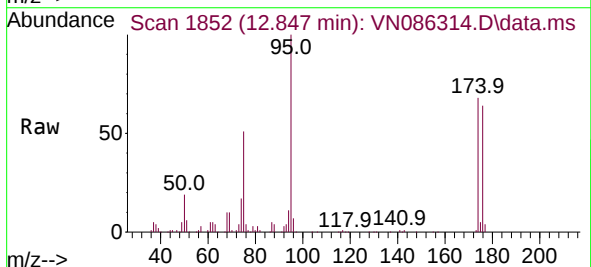
Instrument :
MSVOA_N
ClientSampleId :

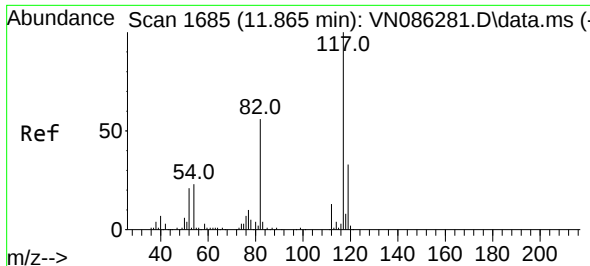
Tgt Ion: 43 Resp: 1543
Ion Ratio Lower Upper
43 100
58 35.8 28.3 85.0



#62
4-Bromofluorobenzene
Concen: 52.150 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086314.D
Acq: 17 Apr 2025 11:55

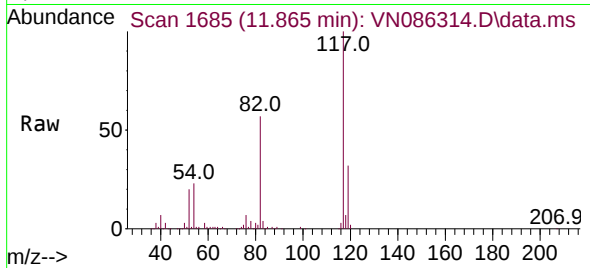
Tgt Ion: 95 Resp: 179549
Ion Ratio Lower Upper
95 100
174 67.5 0.0 133.4
176 64.9 0.0 129.2



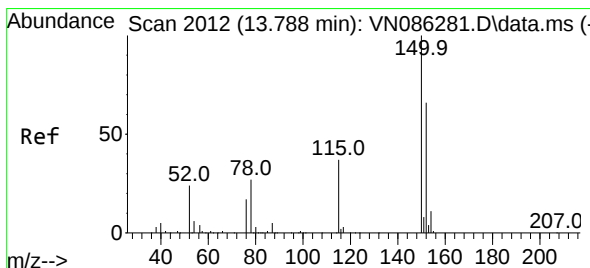
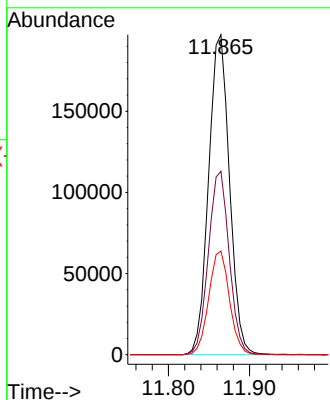
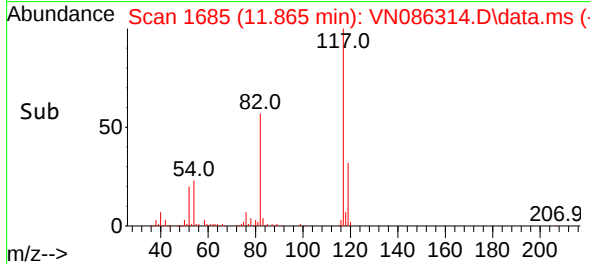


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086314.D
Acq: 17 Apr 2025 11:55

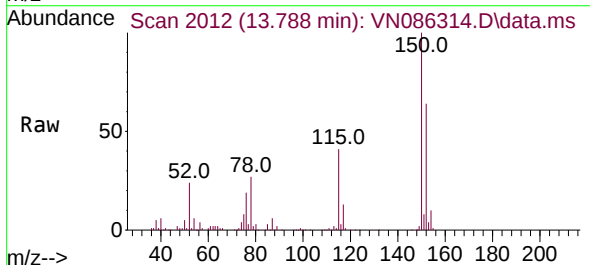
Instrument :
MSVOA_N
ClientSampleId :



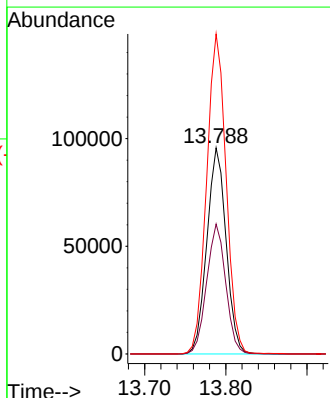
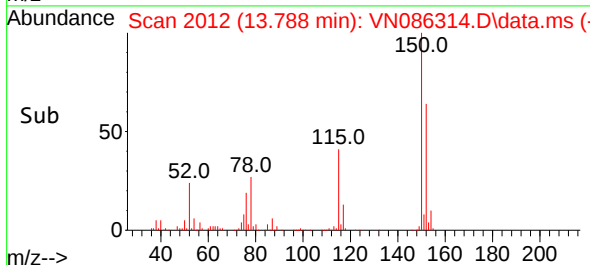
Tgt Ion:117 Resp: 352484
Ion Ratio Lower Upper
117 100
82 57.3 44.7 67.1
119 32.4 26.4 39.6

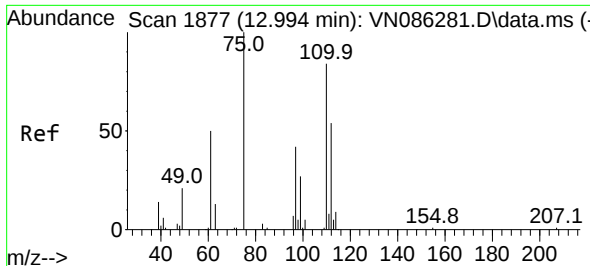


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN086314.D
Acq: 17 Apr 2025 11:55



Tgt Ion:152 Resp: 157543
Ion Ratio Lower Upper
152 100
115 62.3 31.9 95.9
150 157.1 0.0 352.0

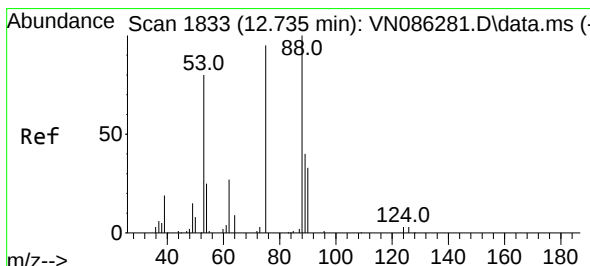
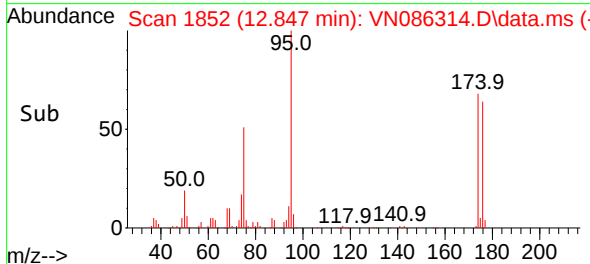
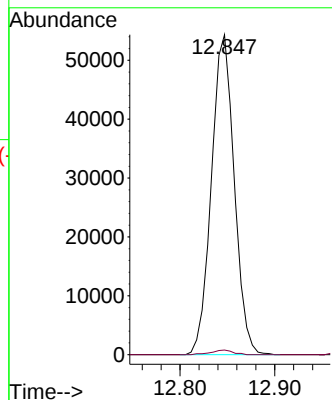
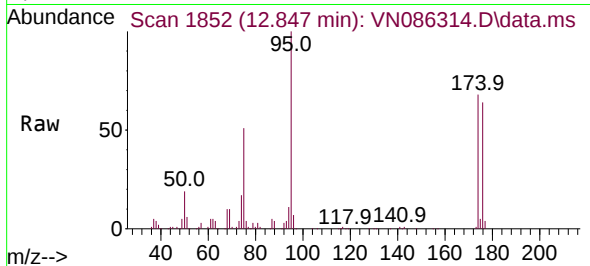




#76
1,2,3-Trichloropropane
Concen: 24.444 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN086314.D
Acq: 17 Apr 2025 11:55

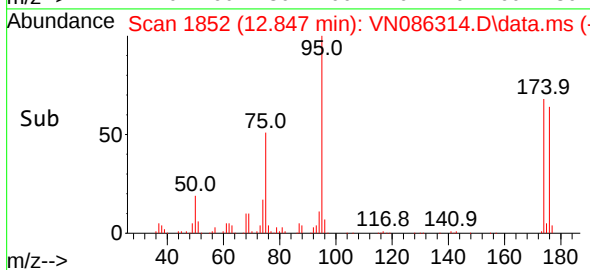
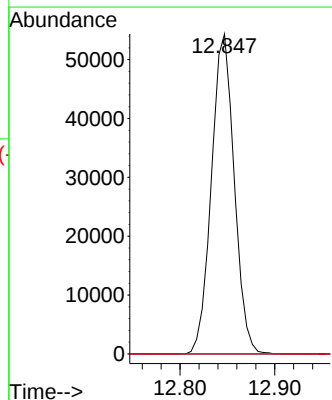
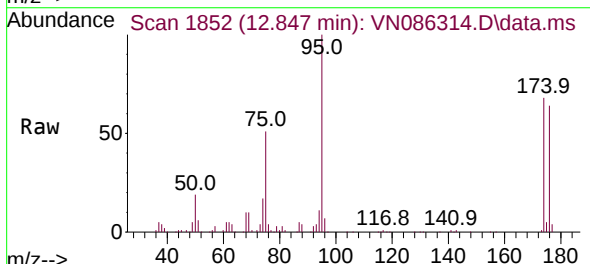
Instrument :
MSVOA_N
ClientSampleId :

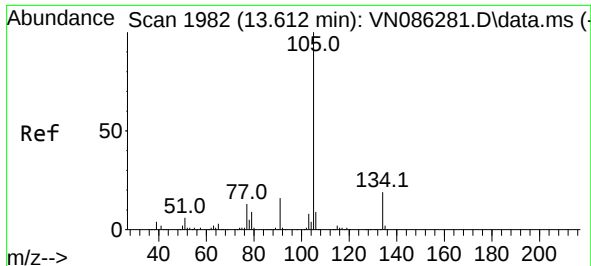
Tgt Ion: 75 Resp: 90879
Ion Ratio Lower Upper
75 100
77 1.4 98.8 296.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 58.706 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086314.D
Acq: 17 Apr 2025 11:55

Tgt Ion: 75 Resp: 90879
Ion Ratio Lower Upper
75 100
53 0.0 79.2 118.8#
89 0.0 35.7 53.5#

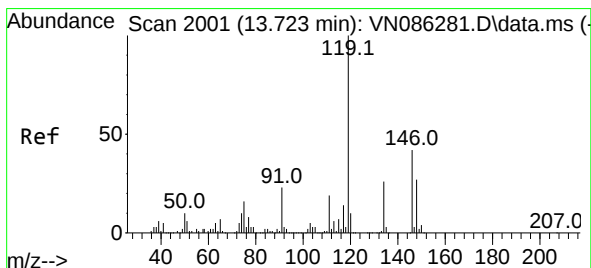
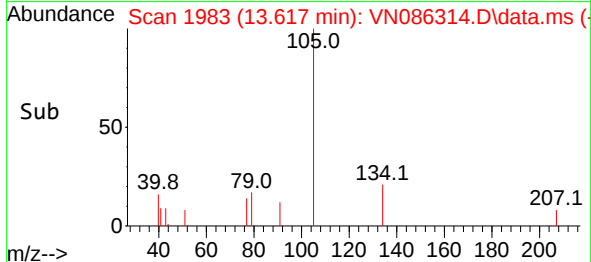
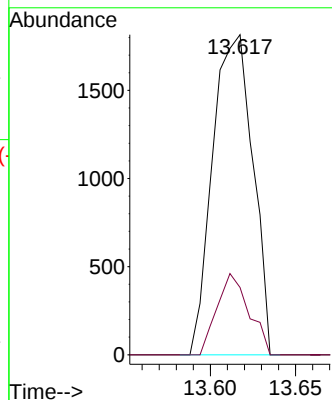
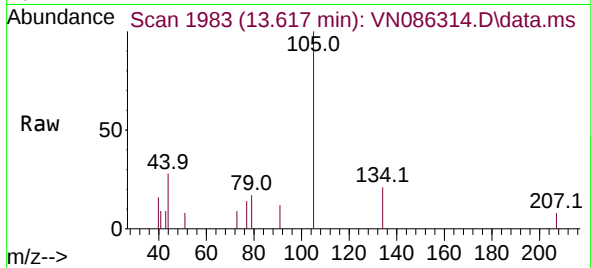




#85
 sec-Butylbenzene
 Concen: 0.235 ug/l
 RT: 13.617 min Scan# 1982
 Delta R.T. 0.006 min
 Lab File: VN086314.D
 Acq: 17 Apr 2025 11:55

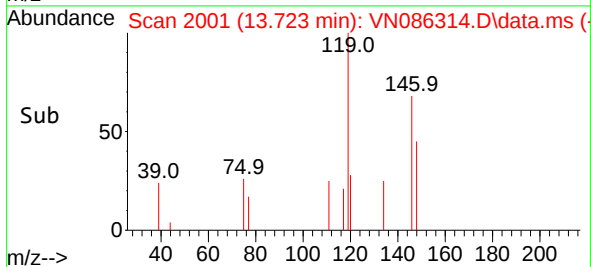
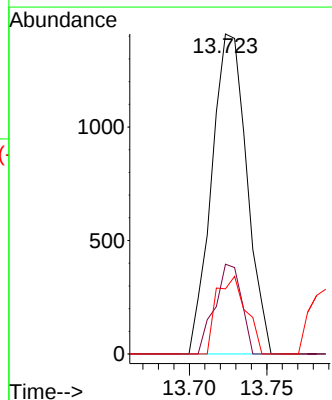
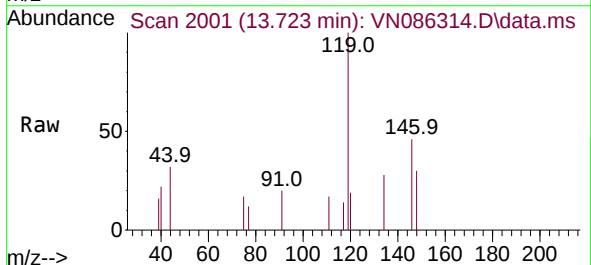
Instrument :
 MSVOA_N
 ClientSampleId :

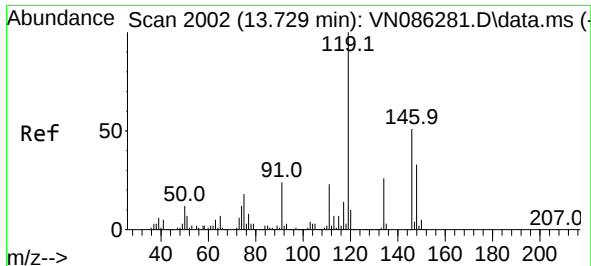
Tgt Ion:105 Resp: 2974
 Ion Ratio Lower Upper
 105 100
 134 20.2 9.7 29.1



#86
 p-Isopropyltoluene
 Concen: 0.213 ug/l
 RT: 13.723 min Scan# 2001
 Delta R.T. -0.000 min
 Lab File: VN086314.D
 Acq: 17 Apr 2025 11:55

Tgt Ion:119 Resp: 2221
 Ion Ratio Lower Upper
 119 100
 134 21.2 13.1 39.1
 91 20.3 11.9 35.9





#87

1,3-Dichlorobenzene

Concen: 0.233 ug/l

RT: 13.735 min Scan# 2003

Delta R.T. 0.006 min

Lab File: VN086314.D

Acq: 17 Apr 2025 11:55

Instrument :

MSVOA_N

ClientSampleId :

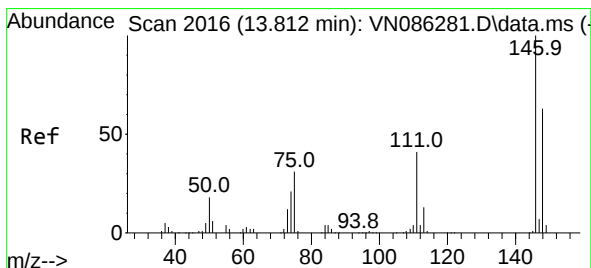
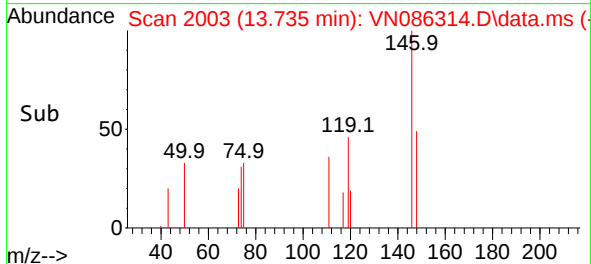
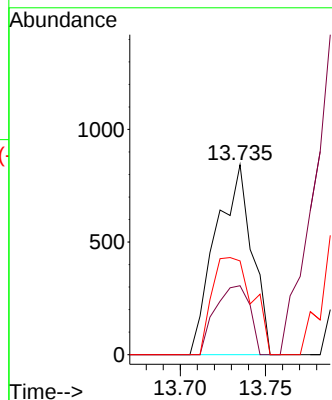
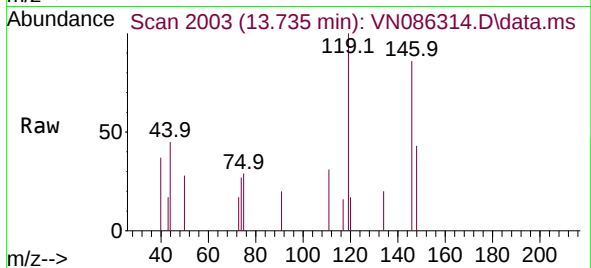
Tgt Ion:146 Resp: 1252

Ion Ratio Lower Upper

146 100

111 34.6 21.9 65.7

148 56.6 31.9 95.5



#88

1,4-Dichlorobenzene

Concen: 0.232 ug/l

RT: 13.735 min Scan# 2003

Delta R.T. -0.077 min

Lab File: VN086314.D

Acq: 17 Apr 2025 11:55

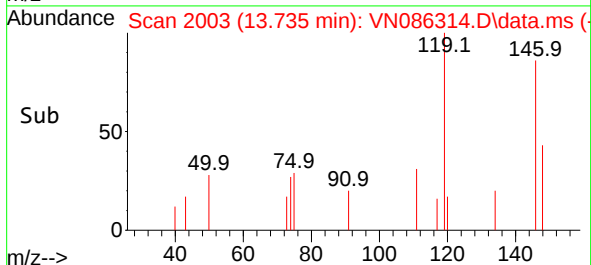
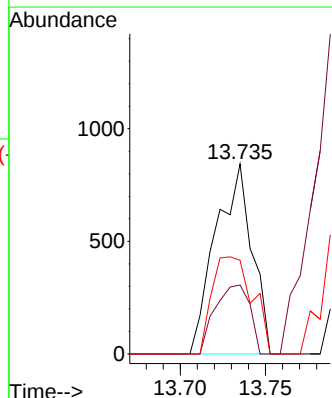
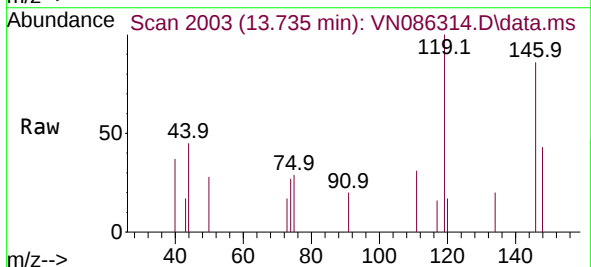
Tgt Ion:146 Resp: 1252

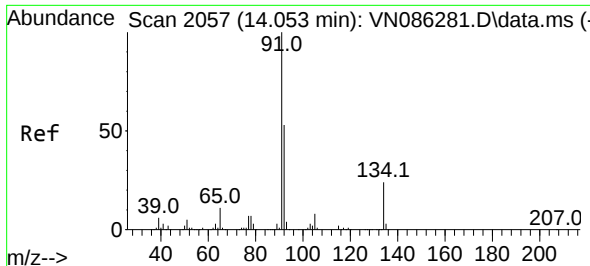
Ion Ratio Lower Upper

146 100

111 34.6 21.3 63.9

148 56.6 31.9 95.9

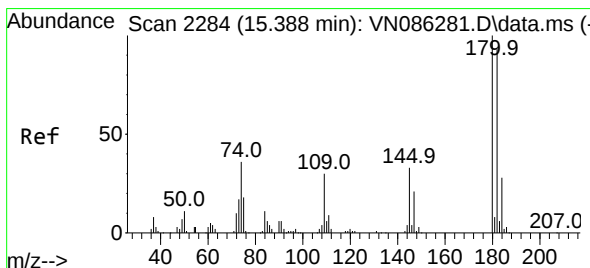
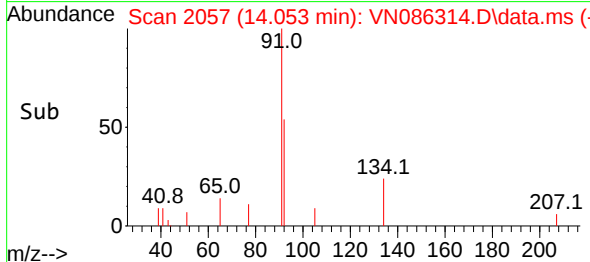
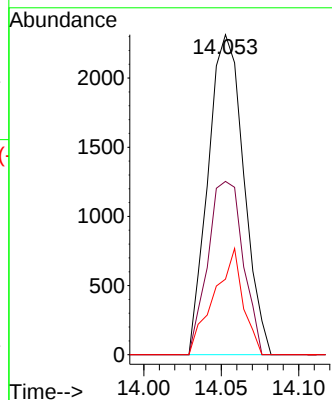
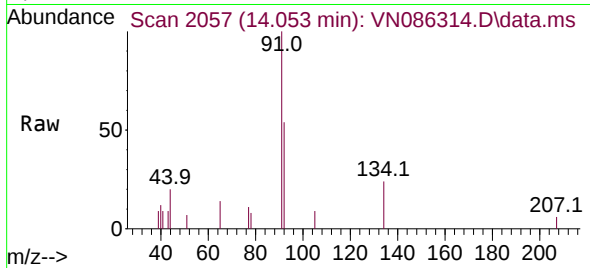




#89
n-Butylbenzene
Concen: 0.399 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. -0.000 min
Lab File: VN086314.D
Acq: 17 Apr 2025 11:55

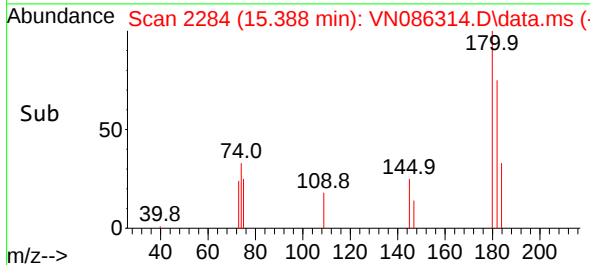
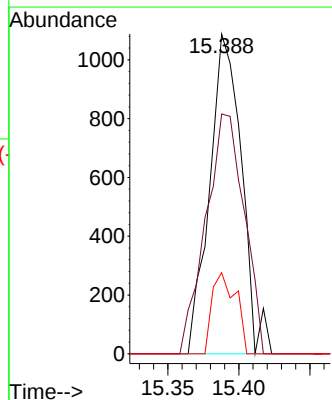
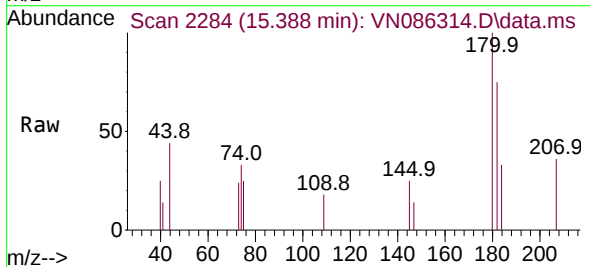
Instrument :
MSVOA_N
ClientSampleId :

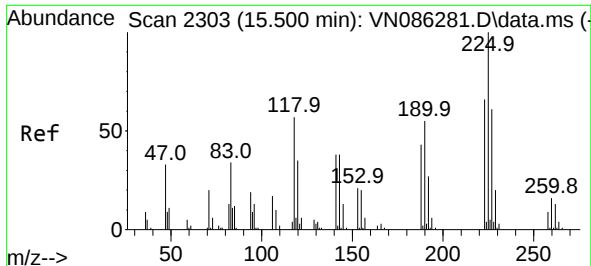
Tgt Ion: 91	Resp:	3692
Ion Ratio	Lower	Upper
91	100	
92	53.6	26.8 80.4
134	27.0	12.2 36.6



#93
1,2,4-Trichlorobenzene
Concen: 0.681 ug/l
RT: 15.388 min Scan# 2284
Delta R.T. -0.000 min
Lab File: VN086314.D
Acq: 17 Apr 2025 11:55

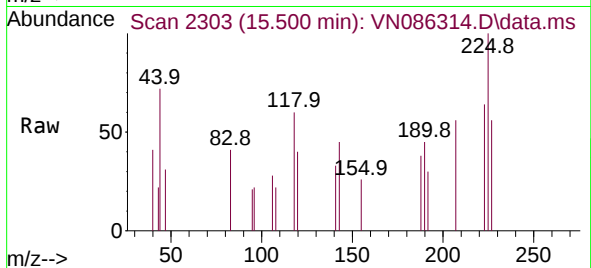
Tgt Ion: 180	Resp:	1697
Ion Ratio	Lower	Upper
180	100	
182	90.1	47.0 141.0
145	18.9	16.4 49.1



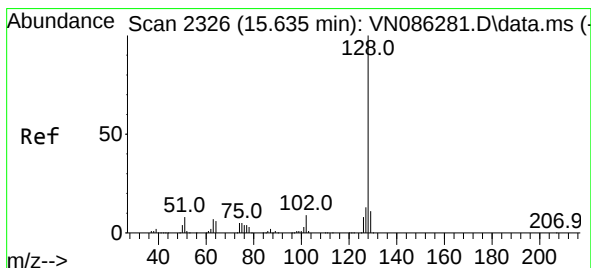
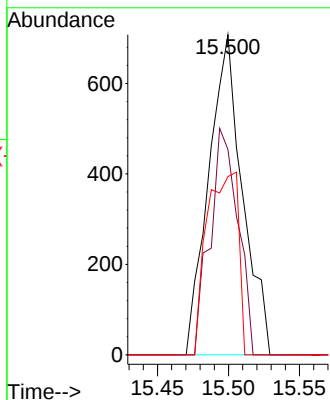
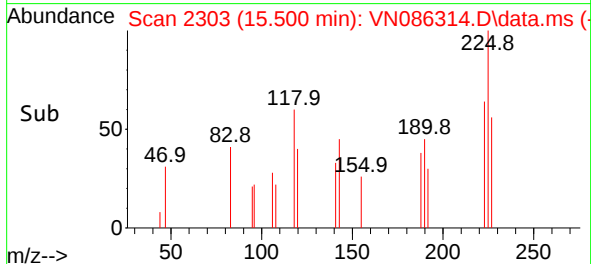


#94
Hexachlorobutadiene
Concen: 1.244 ug/l
RT: 15.500 min Scan# 211
Delta R.T. -0.000 min
Lab File: VN086314.D
Acq: 17 Apr 2025 11:55

Instrument :
MSVOA_N
ClientSampleId :

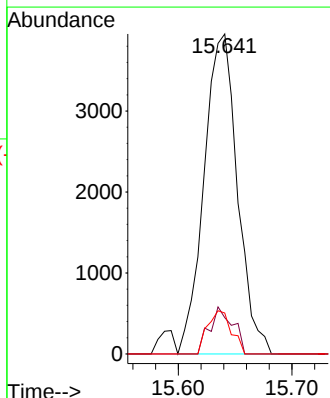
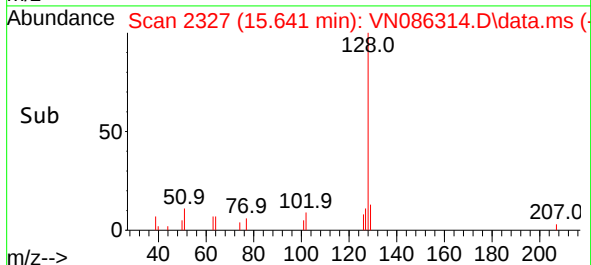
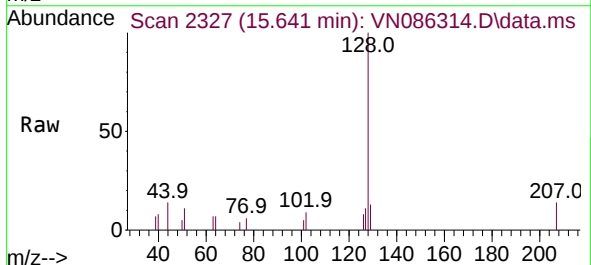


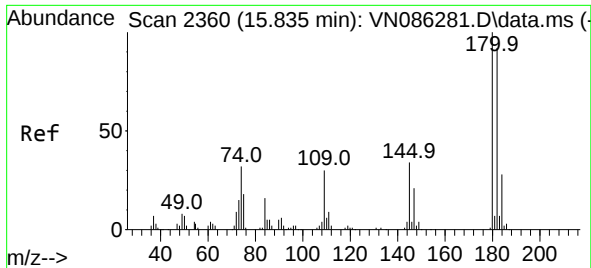
Tgt Ion:225 Resp: 1170
Ion Ratio Lower Upper
225 100
223 58.6 32.8 98.3
227 53.4 31.4 94.0



#95
Naphthalene
Concen: 0.914 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. 0.006 min
Lab File: VN086314.D
Acq: 17 Apr 2025 11:55

Tgt Ion:128 Resp: 8076
Ion Ratio Lower Upper
128 100
127 10.3 10.2 15.4
129 9.7 8.6 13.0





#96

1,2,3-Trichlorobenzene

Concen: 0.734 ug/l

RT: 15.835 min Scan# 21

Delta R.T. -0.000 min

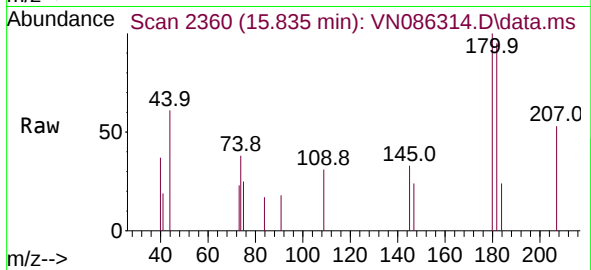
Lab File: VN086314.D

Acq: 17 Apr 2025 11:55

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:180 Resp: 1731

Ion Ratio Lower Upper

180 100

182 93.9 47.3 142.0

145 31.8 17.2 51.5

