

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092624\
 Data File : VN084185.D
 Acq On : 26 Sep 2024 18:40
 Operator : JC\MD
 Sample : P4165-01 5X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 27 01:13:33 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 06 23:42:47 2024
 Response via : Initial Calibration

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

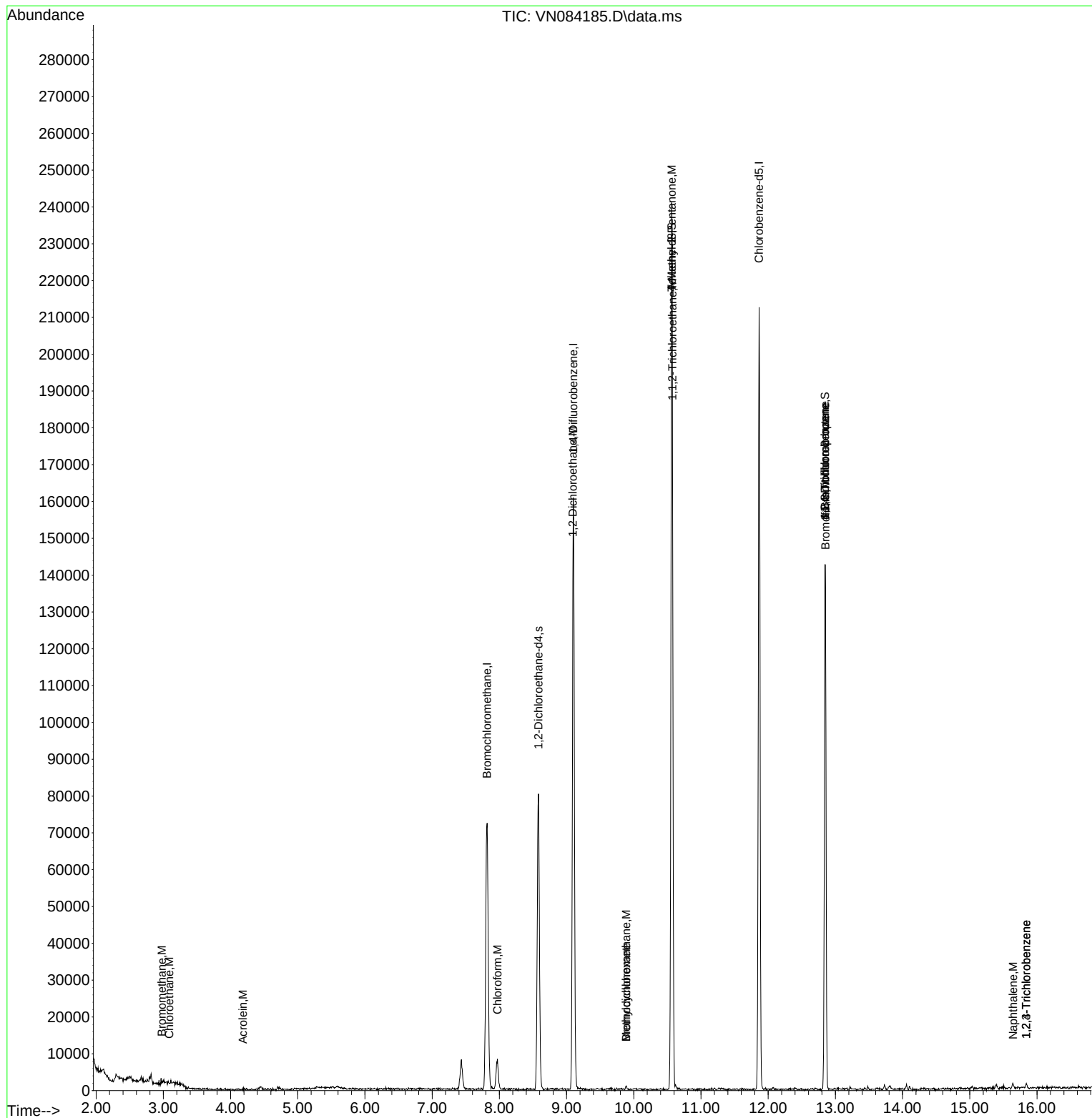
Internal Standards						
1) Bromochloromethane	7.818	128	24902	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	129748	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	119067	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	67449	29.632	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	98.767%
60) 4-Bromofluorobenzene	12.847	95	49621	24.181	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	80.600%
63) Toluene-d8	10.565	98	166153	30.137	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	100.467%
Target Compounds						
					Qvalue	
5) Bromomethane	2.977	94	286	0.287	ug/l	95
6) Chloroethane	3.089	64	457	0.383	ug/l #	41
13) Acrolein	4.183	56	60	0.220	ug/l #	15
25) Chloroform	7.971	83	8393	2.531	ug/l	99
36) 1,2-Dichloroethane	9.094	62	5057	2.178	ug/l #	72
38) Methylcyclohexane	9.888	83	568	0.231	ug/l #	19
41) Bromodichloromethane	9.888	83	638	0.276	ug/l #	63
50) 1,1,2-Trichloroethane	10.576	97	5326	3.852	ug/l #	1
56) Bromoform	12.853	173	499	0.474	ug/l #	1
58) 4-Methyl-2-Pentanone	10.565	43	872	0.462	ug/l #	1
72) 1,2,3-Trichloropropane	12.847	75	26185	14.952	ug/l	1
77) t-1,4-Dichloro-2-butene	12.847	75	26185	35.374	ug/l #	12
89) 1,2,4-Trichlorobenzene	15.841	180	649	0.378	ug/l #	48
91) Naphthalene	15.647	128	1770	0.315	ug/l #	77
92) 1,2,3-Trichlorobenzene	15.841	180	649	0.378	ug/l #	48

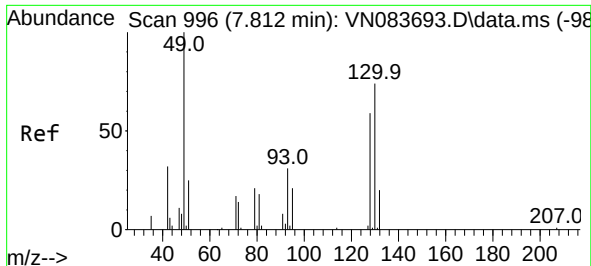
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090624W.M
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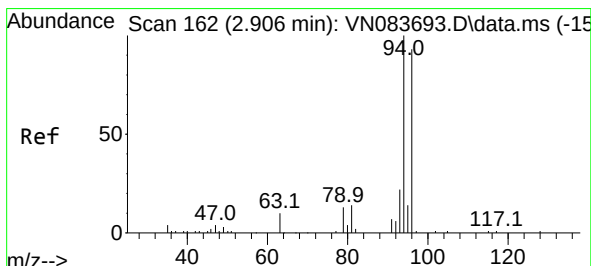
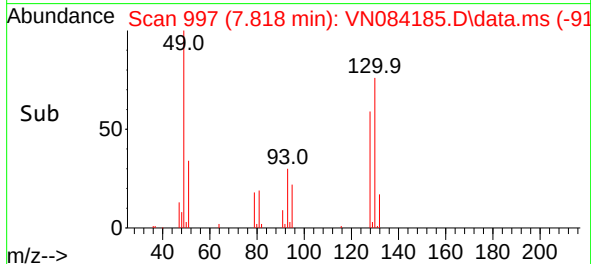
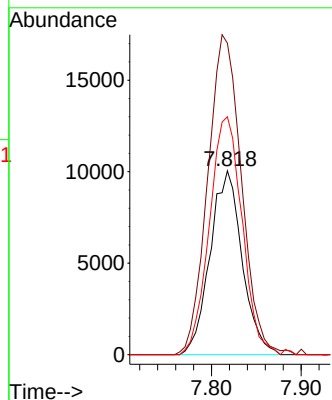
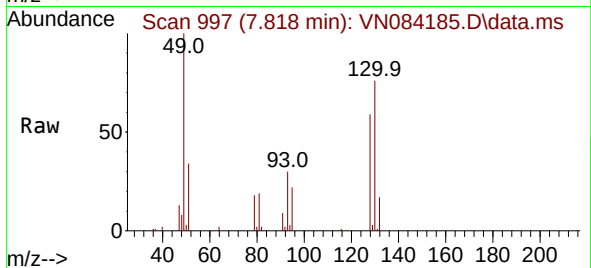




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.818 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN084185.D
Acq: 26 Sep 2024 18:40

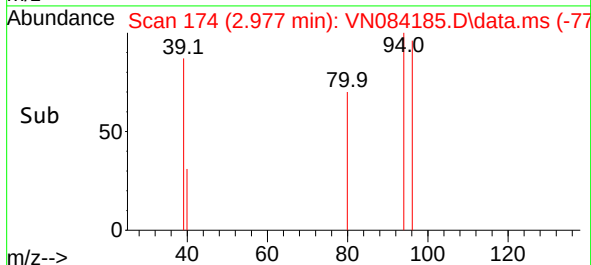
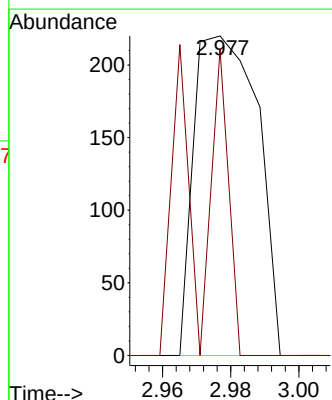
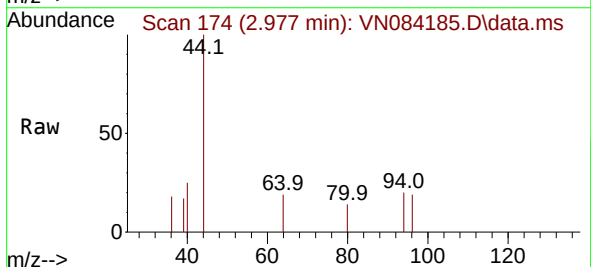
Instrument :
MSVOA_N
ClientSampleId :

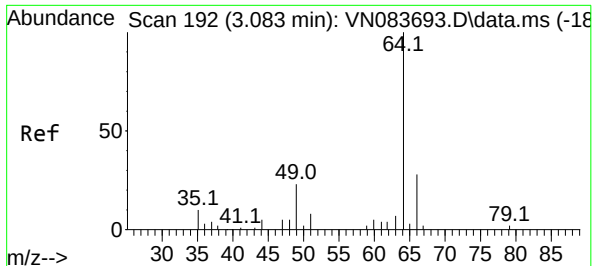
Tgt Ion:128 Resp: 24902
Ion Ratio Lower Upper
128 100
49 182.7 0.0 403.7
130 132.2 0.0 323.3



#5
Bromomethane
Concen: 0.287 ug/l
RT: 2.977 min Scan# 174
Delta R.T. 0.070 min
Lab File: VN084185.D
Acq: 26 Sep 2024 18:40

Tgt Ion: 94 Resp: 286
Ion Ratio Lower Upper
94 100
96 95.9 72.8 109.2

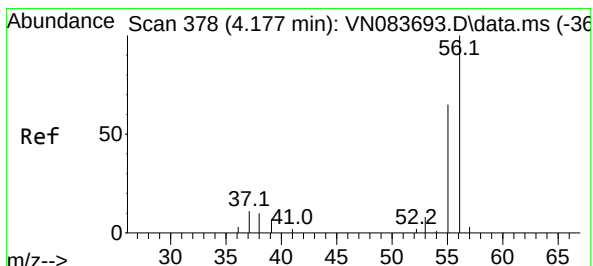
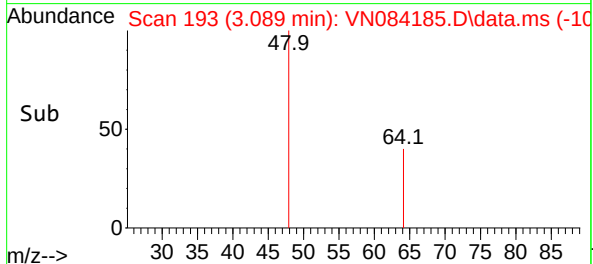
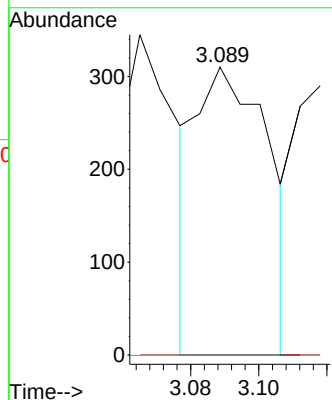
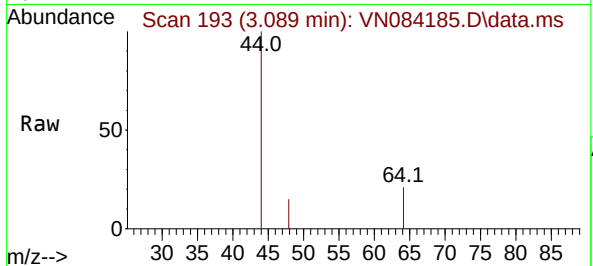




#6
Chloroethane
Concen: 0.383 ug/l
RT: 3.089 min Scan# 19
Delta R.T. 0.006 min
Lab File: VN084185.D
Acq: 26 Sep 2024 18:40

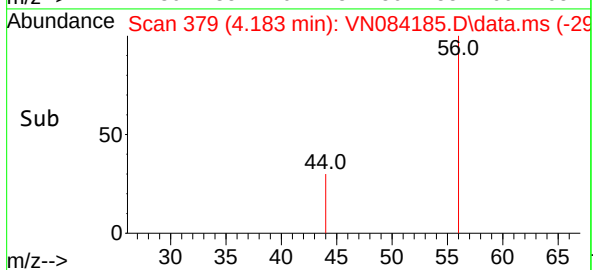
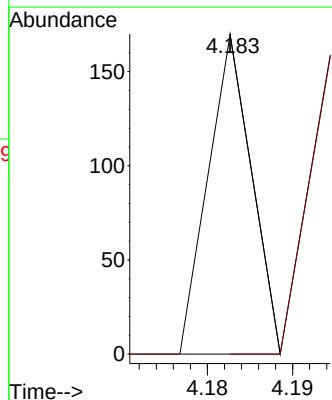
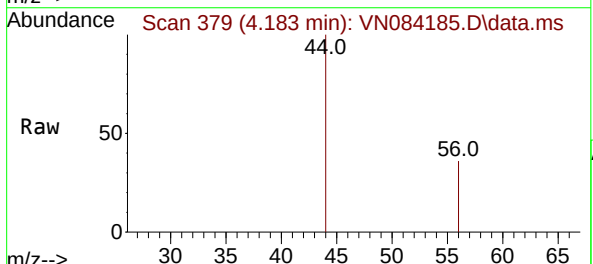
Instrument :
MSVOA_N
ClientSampleId :

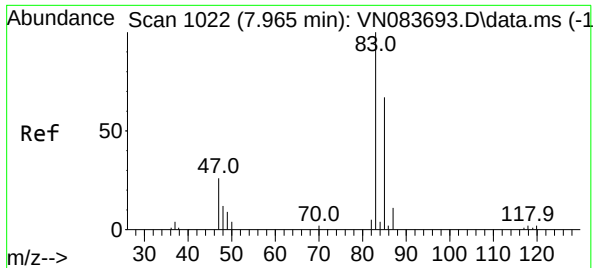
Tgt Ion: 64 Resp: 457
Ion Ratio Lower Upper
64 100
66 0.0 26.7 40.1#



#13
Acrolein
Concen: 0.220 ug/l
RT: 4.183 min Scan# 379
Delta R.T. 0.006 min
Lab File: VN084185.D
Acq: 26 Sep 2024 18:40

Tgt Ion: 56 Resp: 60
Ion Ratio Lower Upper
56 100
55 0.0 55.5 83.3#

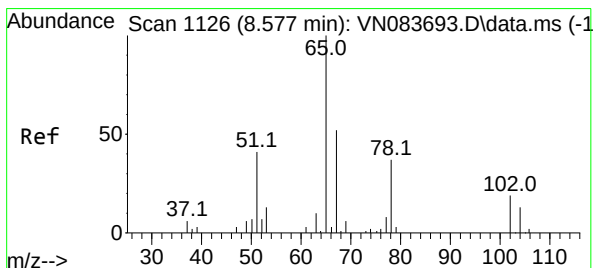
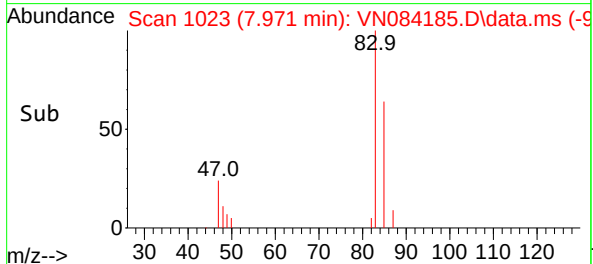
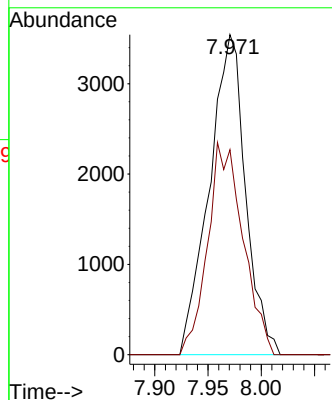
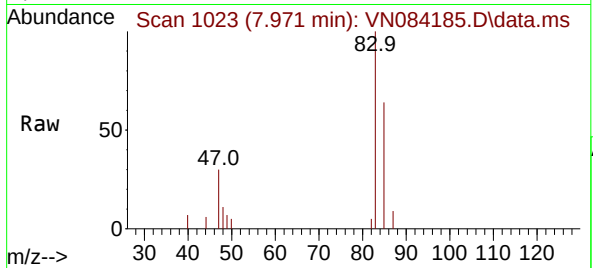




#25
Chloroform
Concen: 2.531 ug/l
RT: 7.971 min Scan# 1023
Delta R.T. 0.006 min
Lab File: VN084185.D
Acq: 26 Sep 2024 18:40

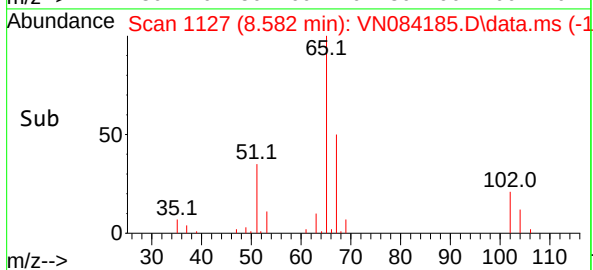
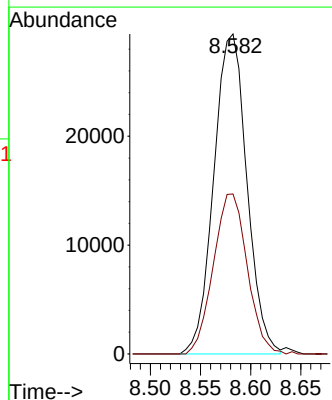
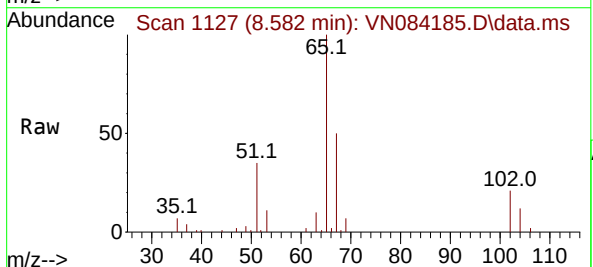
Instrument :
MSVOA_N
ClientSampleId :

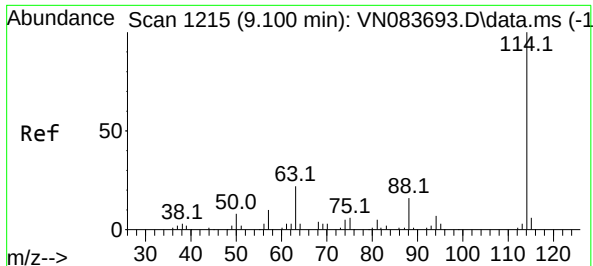
Tgt Ion: 83 Resp: 8393
Ion Ratio Lower Upper
83 100
85 64.1 50.9 76.3



#27
1,2-Dichloroethane-d4
Concen: 29.632 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. 0.006 min
Lab File: VN084185.D
Acq: 26 Sep 2024 18:40

Tgt Ion: 65 Resp: 67449
Ion Ratio Lower Upper
65 100
67 51.1 43.2 64.8

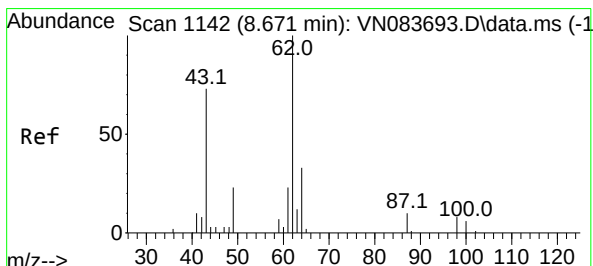
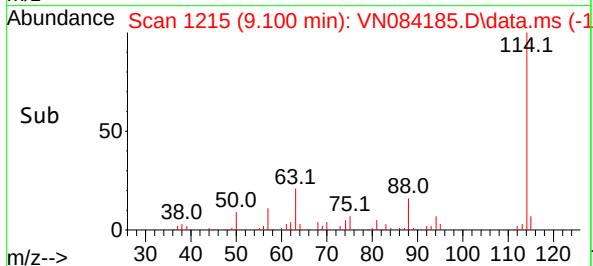
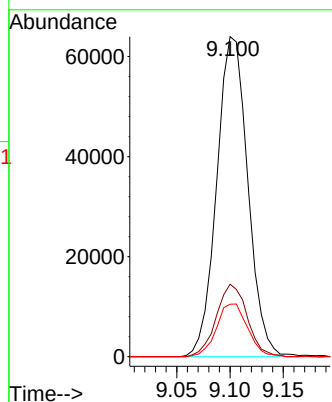
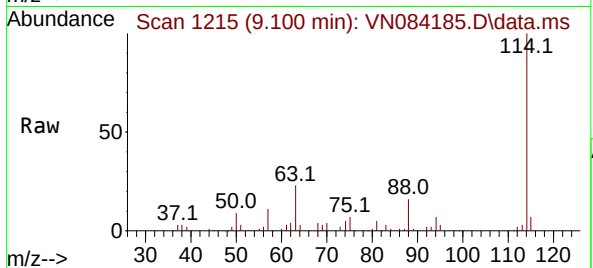




#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 9.100 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: VN084185.D
 Acq: 26 Sep 2024 18:40

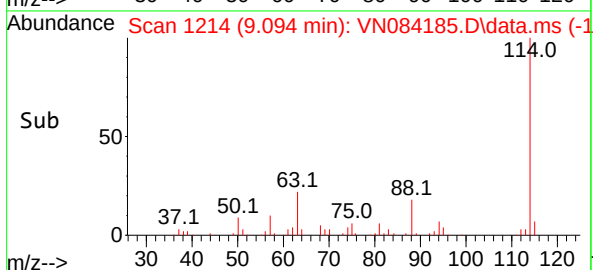
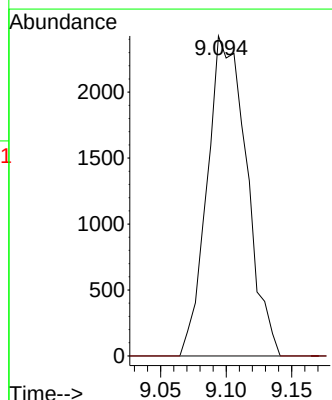
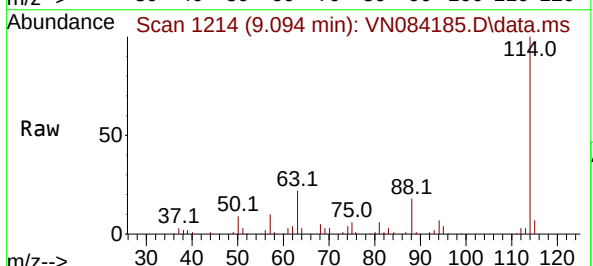
Instrument :
 MSVOA_N
 ClientSampleId :

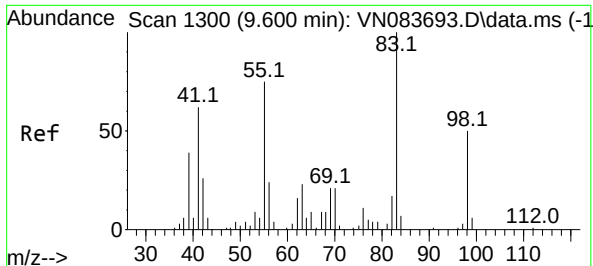
Tgt Ion:114 Resp: 129748
 Ion Ratio Lower Upper
 114 100
 63 22.5 15.9 23.9
 88 16.6 12.7 19.1



#36
 1,2-Dichloroethane
 Concen: 2.178 ug/l
 RT: 9.094 min Scan# 1214
 Delta R.T. 0.423 min
 Lab File: VN084185.D
 Acq: 26 Sep 2024 18:40

Tgt Ion: 62 Resp: 5057
 Ion Ratio Lower Upper
 62 100
 98 0.0 8.2 12.4#

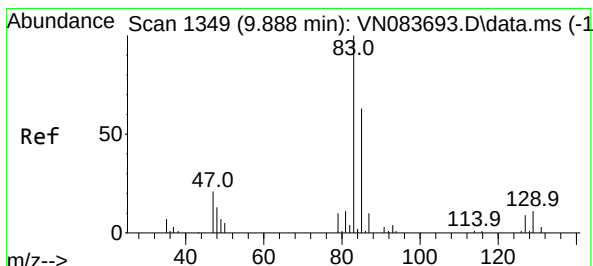
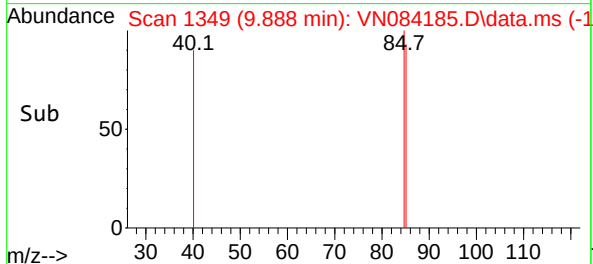
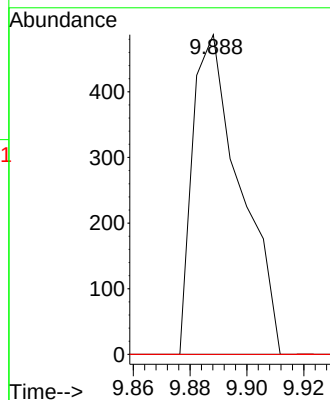
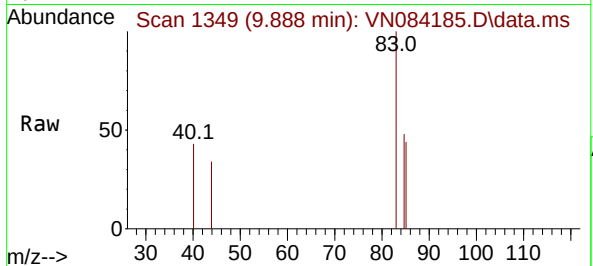




#38
Methylcyclohexane
Concen: 0.231 ug/l
RT: 9.888 min Scan# 1349
Delta R.T. 0.288 min
Lab File: VN084185.D
Acq: 26 Sep 2024 18:40

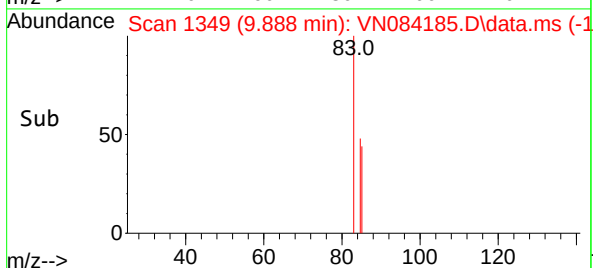
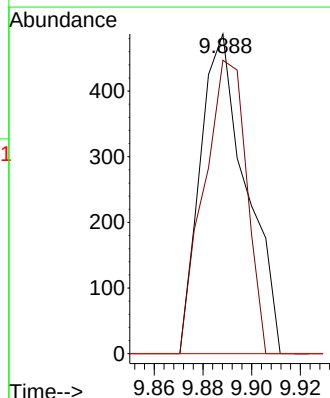
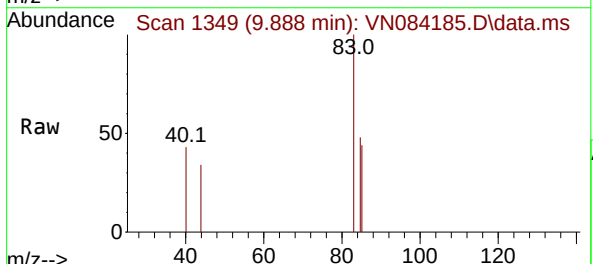
Instrument :
MSVOA_N
ClientSampleId :

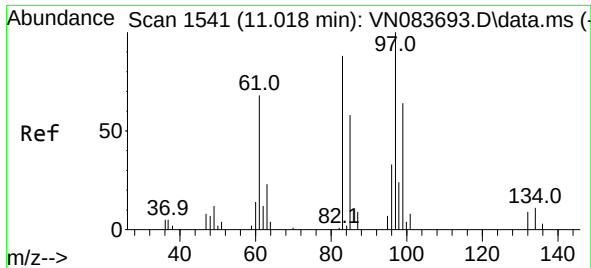
Tgt Ion: 83 Resp: 568
Ion Ratio Lower Upper
83 100
55 0.0 36.6 109.9#
98 0.0 23.8 71.5#



#41
Bromodichloromethane
Concen: 0.276 ug/l
RT: 9.888 min Scan# 1349
Delta R.T. -0.000 min
Lab File: VN084185.D
Acq: 26 Sep 2024 18:40

Tgt Ion: 83 Resp: 638
Ion Ratio Lower Upper
83 100
85 91.8 49.4 74.2#
127 0.0 7.3 10.9#

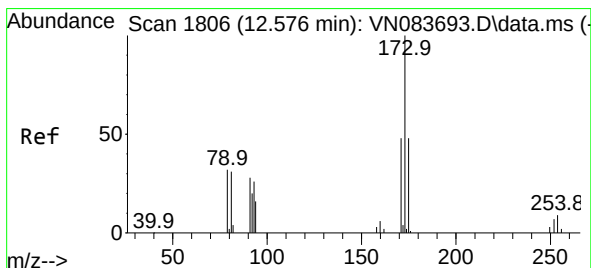
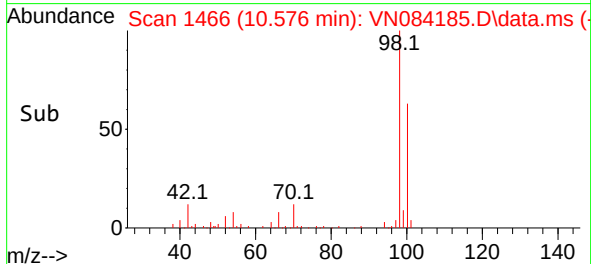
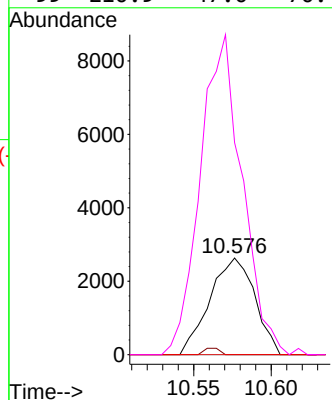
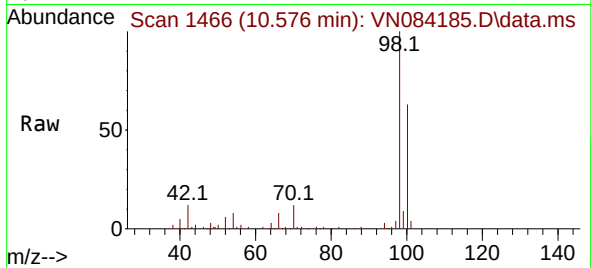




#50
1,1,2-Trichloroethane
Concen: 3.852 ug/l
RT: 10.576 min Scan# 1466
Delta R.T. -0.441 min
Lab File: VN084185.D
Acq: 26 Sep 2024 18:40

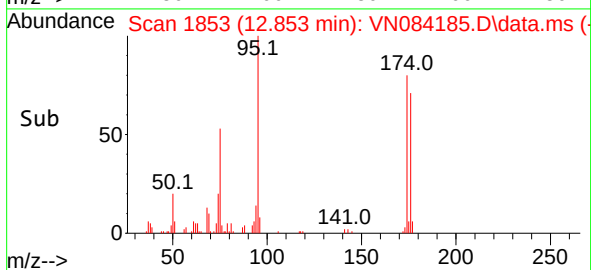
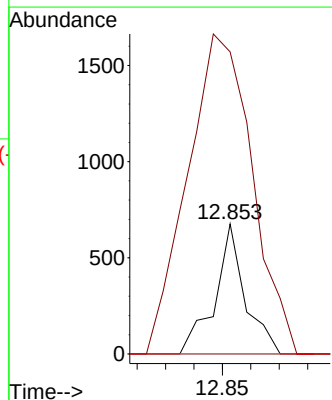
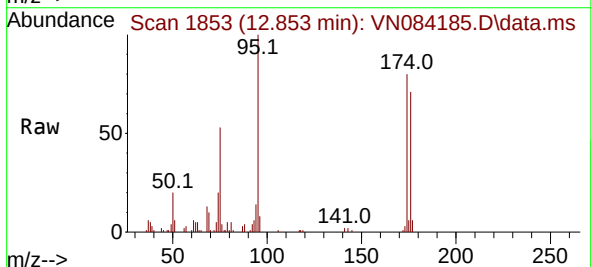
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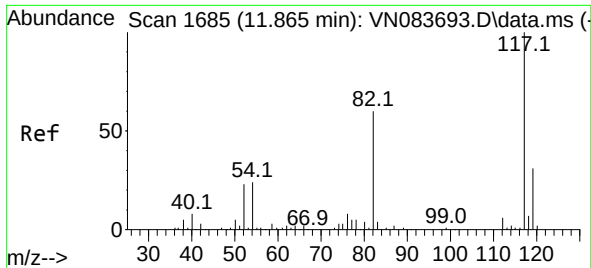
Tgt Ion: 97 Resp: 5326
Ion Ratio Lower Upper
97 100
83 0.0 68.1 102.1#
85 0.0 41.8 62.6#
99 210.9 47.0 70.4#



#56
Bromoform
Concen: 0.474 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.276 min
Lab File: VN084185.D
Acq: 26 Sep 2024 18:40

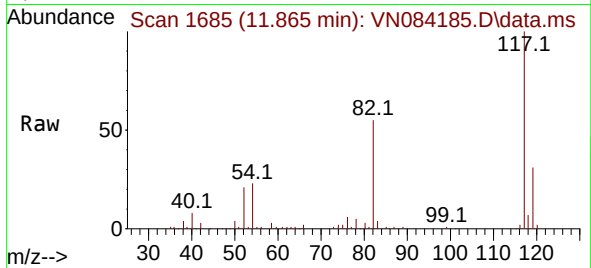
Tgt Ion:173 Resp: 499
Ion Ratio Lower Upper
173 100
175 527.3 40.0 60.0#
254 0.0 8.3 12.5#



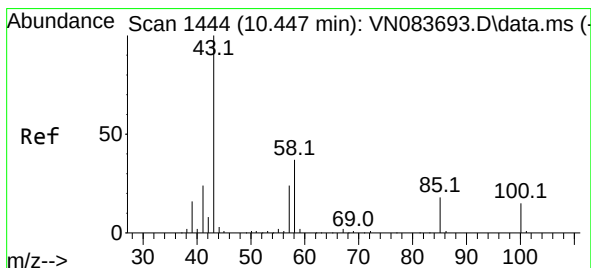
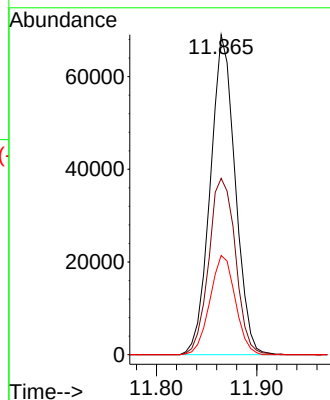
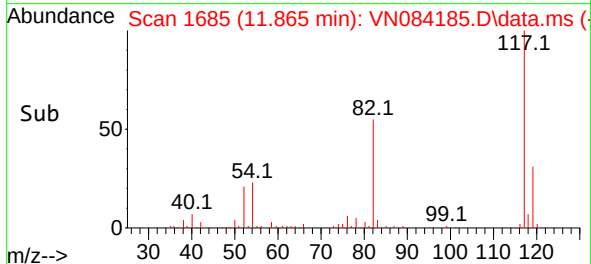


#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 119067
Delta R.T. -0.000 min
Lab File: VN084185.D
Acq: 26 Sep 2024 18:40

Instrument :
MSVOA_N
ClientSampleId :

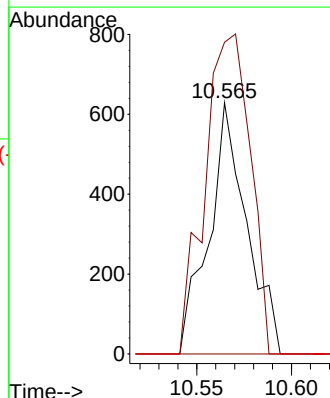
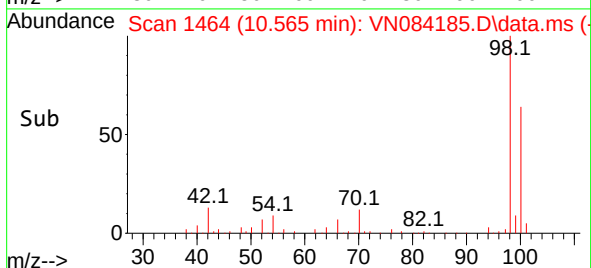
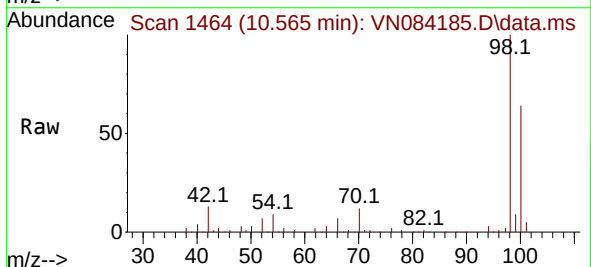


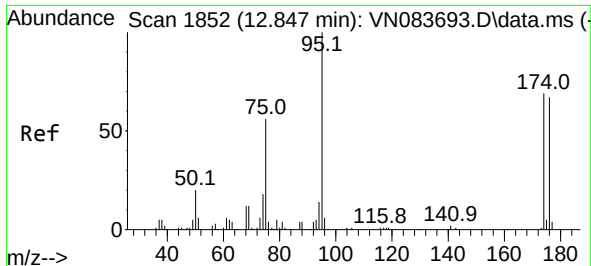
Tgt Ion:117 Resp: 119067
Ion Ratio Lower Upper
117 100
82 58.9 46.6 69.8
119 31.5 25.4 38.2



#58
4-Methyl-2-Pentanone
Concen: 0.462 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.118 min
Lab File: VN084185.D
Acq: 26 Sep 2024 18:40

Tgt Ion: 43 Resp: 872
Ion Ratio Lower Upper
43 100
58 154.0 36.5 54.7#
85 0.0 19.5 29.3#

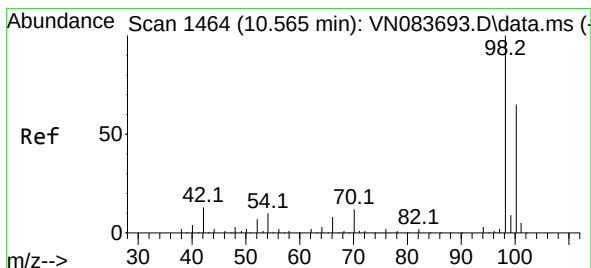
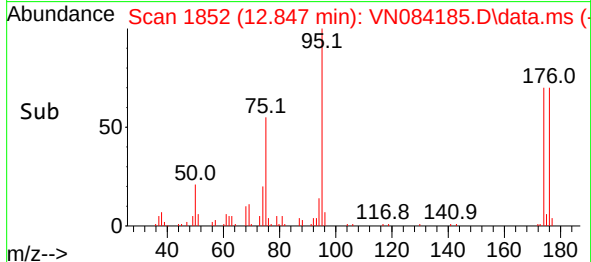
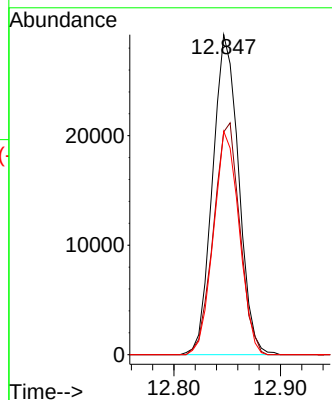
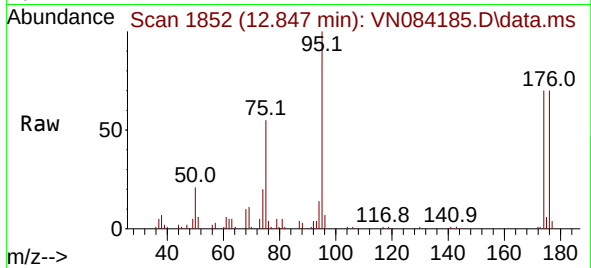




#60
4-Bromofluorobenzene
Concen: 24.181 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN084185.D
Acq: 26 Sep 2024 18:40

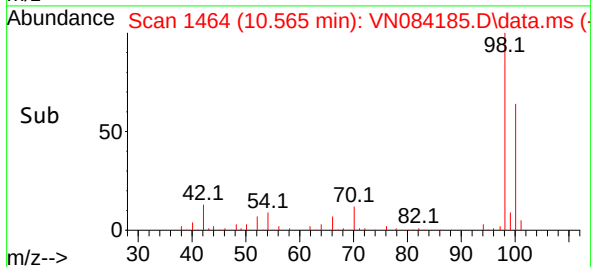
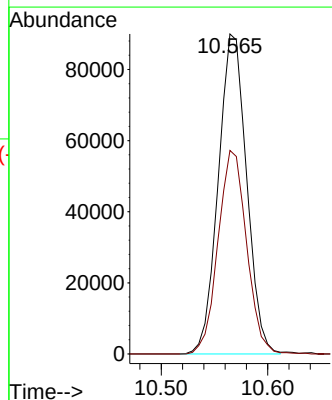
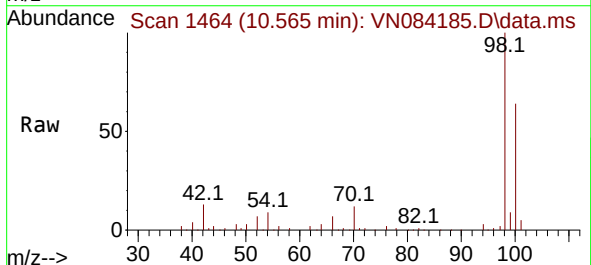
Instrument :
MSVOA_N
ClientSampleId :

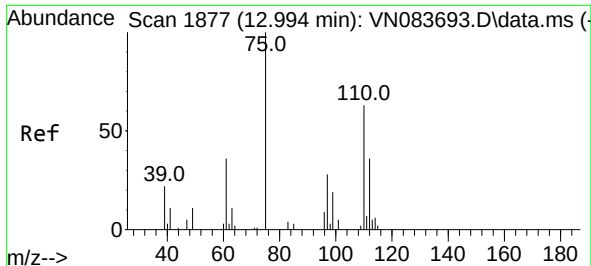
Tgt Ion: 95 Resp: 49621
Ion Ratio Lower Upper
95 100
174 73.1 60.5 90.7
176 68.9 57.8 86.6



#63
Toluene-d8
Concen: 30.137 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN084185.D
Acq: 26 Sep 2024 18:40

Tgt Ion: 98 Resp: 166153
Ion Ratio Lower Upper
98 100
100 64.1 52.7 79.1

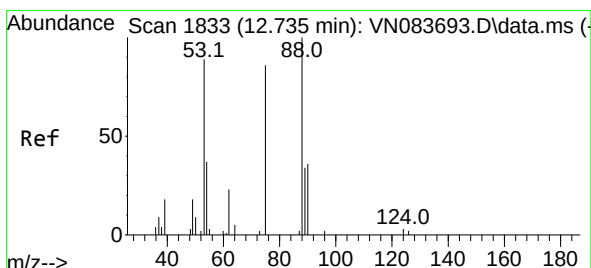
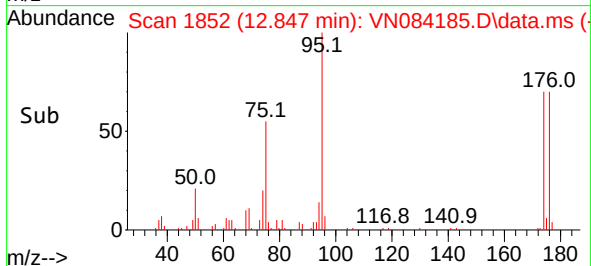
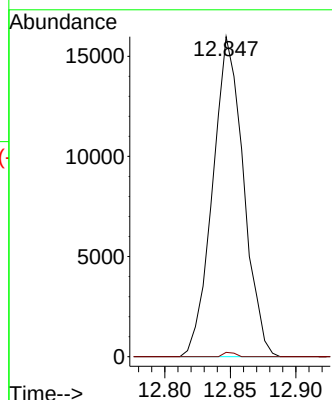
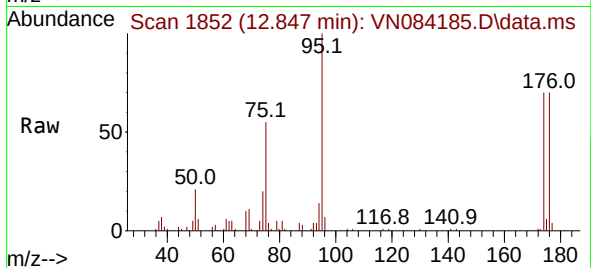




#72
1,2,3-Trichloropropane
Concen: 14.952 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN084185.D
Acq: 26 Sep 2024 18:40

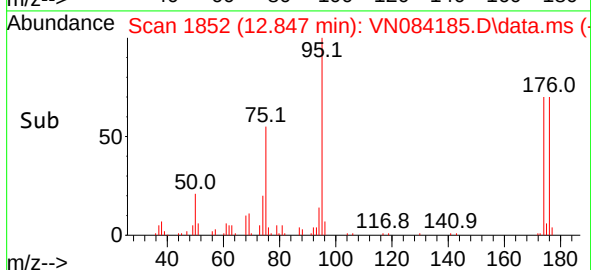
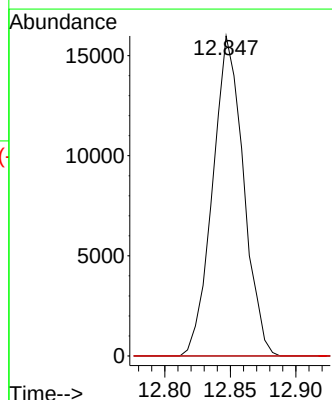
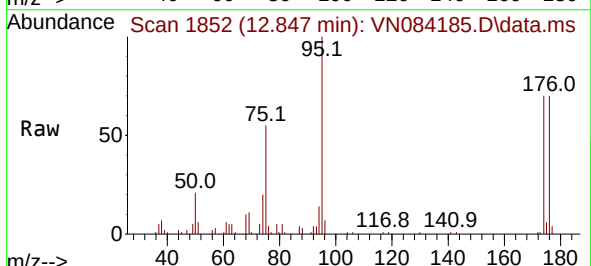
Instrument :
MSVOA_N
ClientSampleId :

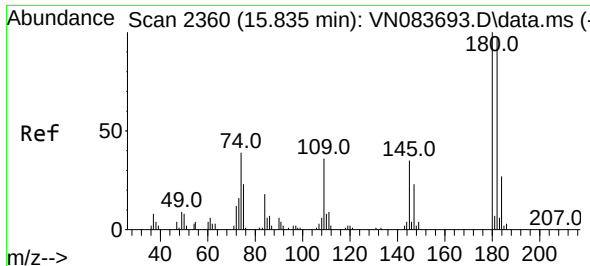
Tgt Ion: 75 Resp: 26185
Ion Ratio Lower Upper
75 100
77 0.5 0.0 367.6



#77
t-1,4-Dichloro-2-butene
Concen: 35.374 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN084185.D
Acq: 26 Sep 2024 18:40

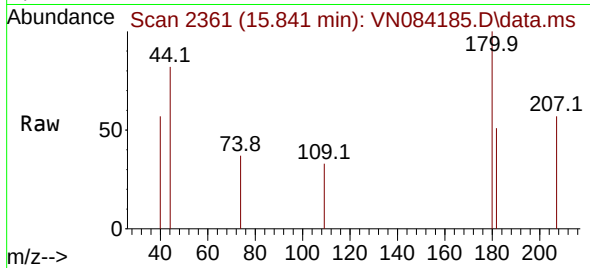
Tgt Ion: 75 Resp: 26185
Ion Ratio Lower Upper
75 100
53 0.0 45.9 137.7#
89 0.0 25.9 77.7#



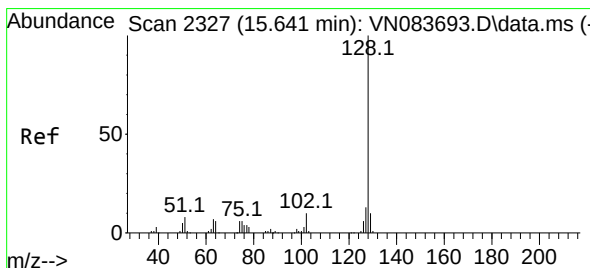
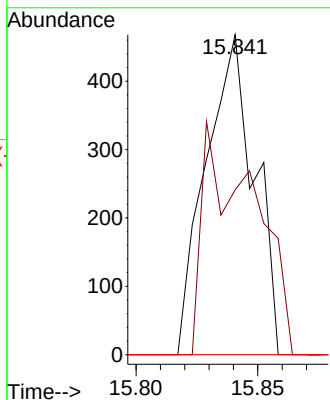
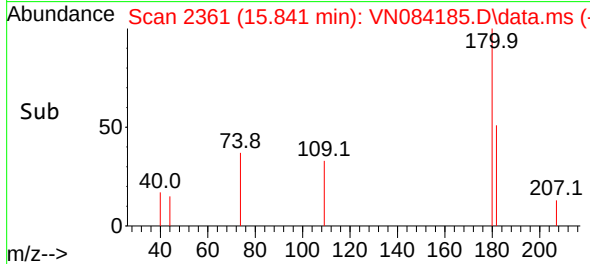


#89
1,2,4-Trichlorobenzene
Concen: 0.378 ug/l
RT: 15.841 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN084185.D
Acq: 26 Sep 2024 18:40

Instrument :
MSVOA_N
ClientSampleId :

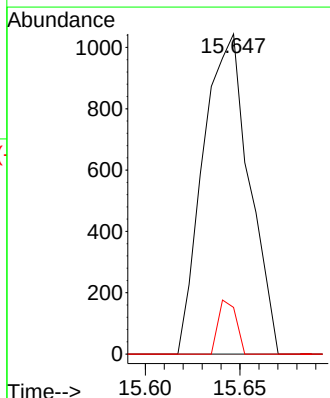
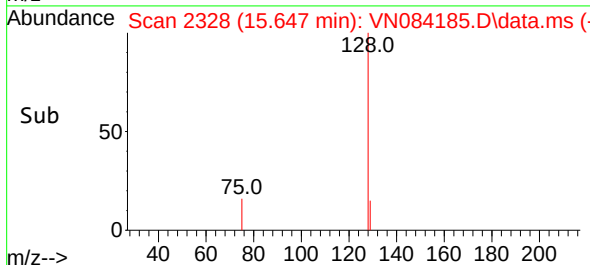
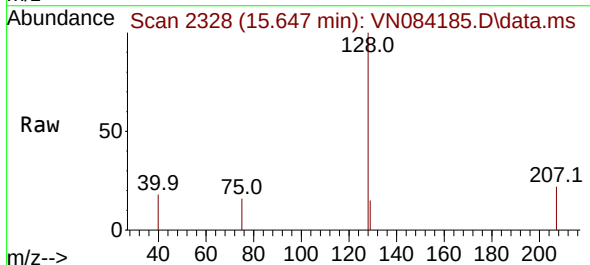


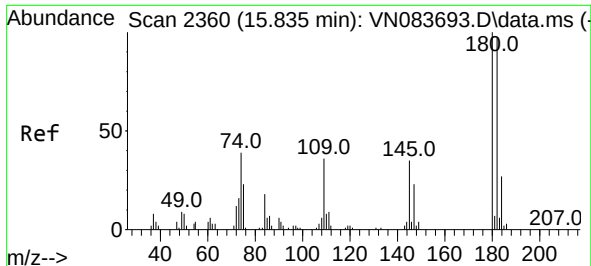
Tgt Ion:180 Resp: 649
Ion Ratio Lower Upper
180 100
182 47.5 76.4 114.6#
145 0.0 28.4 42.6#



#91
Naphthalene
Concen: 0.315 ug/l
RT: 15.647 min Scan# 2328
Delta R.T. 0.006 min
Lab File: VN084185.D
Acq: 26 Sep 2024 18:40

Tgt Ion:128 Resp: 1770
Ion Ratio Lower Upper
128 100
127 0.0 10.6 16.0#
129 6.6 8.6 13.0#





#92

1,2,3-Trichlorobenzene

Concen: 0.378 ug/l

RT: 15.841 min Scan# 21

Delta R.T. 0.006 min

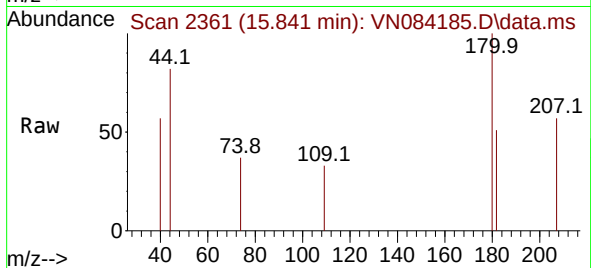
Lab File: VN084185.D

Acq: 26 Sep 2024 18:40

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:180 Resp: 649

Ion Ratio Lower Upper

180 100

182 47.5 0.0 191.0

145 0.0 0.0 71.0

