

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112524\
 Data File : VN085026.D
 Acq On : 25 Nov 2024 13:14
 Operator : JC\MD
 Sample : P4967-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 25 15:14:10 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 01 02:38:04 2024
 Response via : Initial Calibration

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

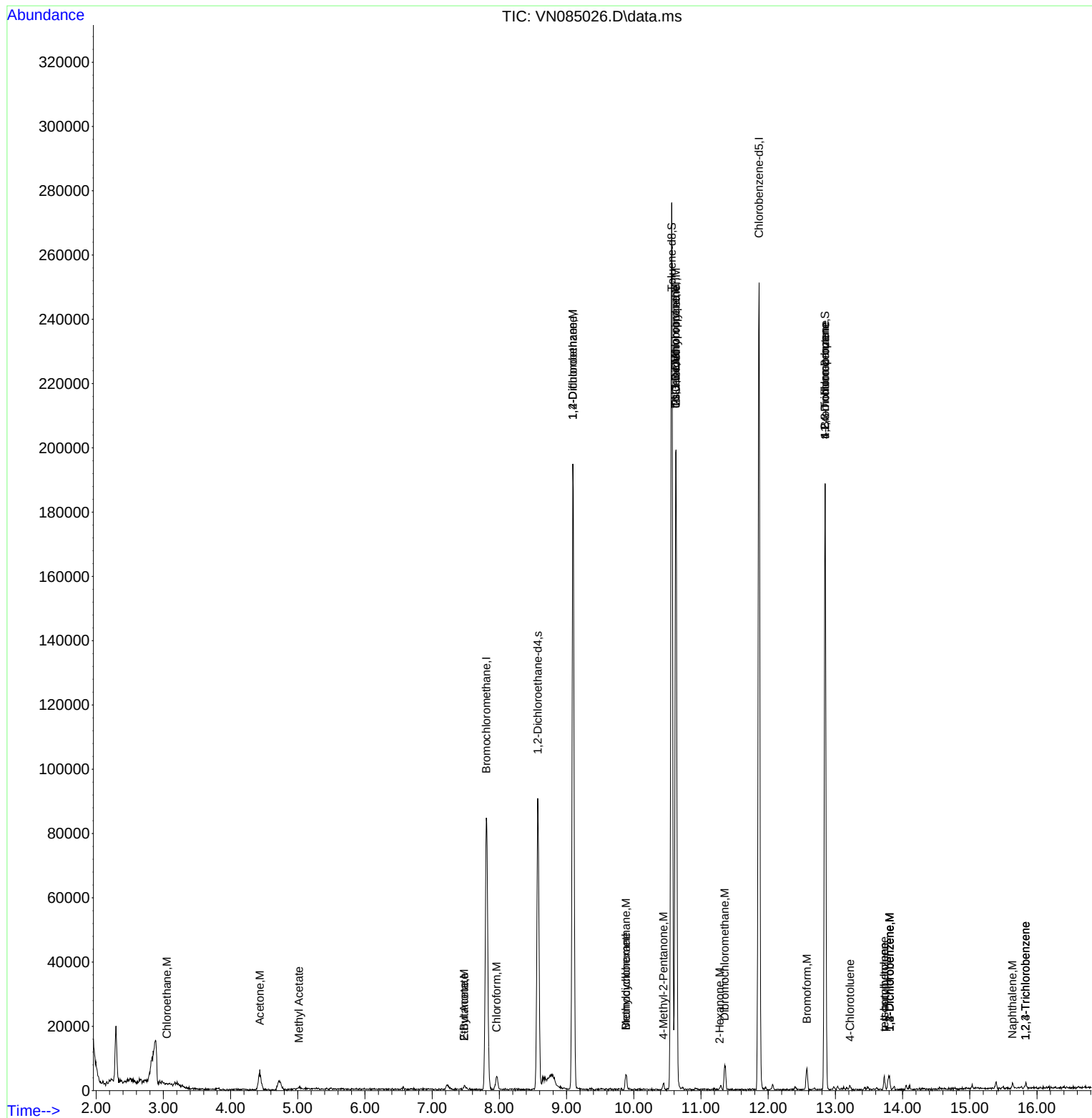
Internal Standards						
1) Bromochloromethane	7.806	128	32568	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.094	114	164674	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	145379	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.571	65	74069	28.289	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	94.300%
60) 4-Bromofluorobenzene	12.847	95	64237	25.662	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	85.533%
63) Toluene-d8	10.565	98	195474	28.403	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	94.667%
Target Compounds						
					Qvalue	
6) Chloroethane	3.053	64	676	0.486	ug/l #	47
12) Methyl Acetate	5.018	43	807	0.273	ug/l #	52
15) Acetone	4.436	58	1143	4.596	ug/l #	69
25) Chloroform	7.959	83	4251	1.066	ug/l	87
30) 2-Butanone	7.477	43	1049	0.917	ug/l #	92
36) 1,2-Dichloroethane	9.094	62	5674	2.081	ug/l #	74
38) Methylcyclohexane	9.882	83	3850	1.442	ug/l #	17
41) Bromodichloromethane	9.882	83	3850	1.301	ug/l #	68
43) Ethyl Acetate	7.477	43	1049	0.436	ug/l #	66
48) t-1,3-Dichloropropene	10.624	75	702	0.240	ug/l #	1
49) cis-1,3-Dichloropropene	10.624	75	702	0.224	ug/l #	1
53) Dibromochloromethane	11.353	129	5331	2.460	ug/l	86
55) 2-Chloroethyl vinyl ether	10.629	63	11623	8.305	ug/l #	1
56) Bromoform	12.576	173	3101	2.135	ug/l #	98
58) 4-Methyl-2-Pentanone	10.441	43	1476	0.644	ug/l #	91
59) 2-Hexanone	11.276	43	424	0.252	ug/l #	33
62) Toluene	10.624	91	154315	18.637	ug/l	100
72) 1,2,3-Trichloropropane	12.847	75	32965	14.919	ug/l	1
77) t-1,4-Dichloro-2-butene	12.847	75	32965	36.377	ug/l #	7
78) 4-Chlorotoluene	13.217	91	1270	0.207	ug/l	73
79) tert-butylbenzene	13.729	119	1861	0.330	ug/l	58
82) p-Isopropyltoluene	13.729	119	1861	0.285	ug/l	97
83) 1,3-Dichlorobenzene	13.806	146	1126	0.296	ug/l	88
84) 1,4-Dichlorobenzene	13.806	146	1126	0.299	ug/l	85
87) 1,2-Dichlorobenzene	13.806	146	1126	0.300	ug/l	88
89) 1,2,4-Trichlorobenzene	15.829	180	699	0.383	ug/l #	82
91) Naphthalene	15.635	128	2338	0.401	ug/l #	75
92) 1,2,3-Trichlorobenzene	15.829	180	699	0.383	ug/l	82

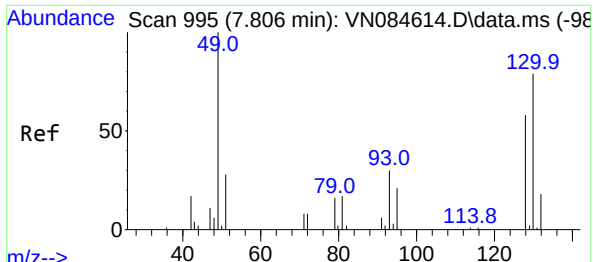
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112524\
Data File : VN085026.D
Acq On : 25 Nov 2024 13:14
Operator : JC\MD
Sample : P4967-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

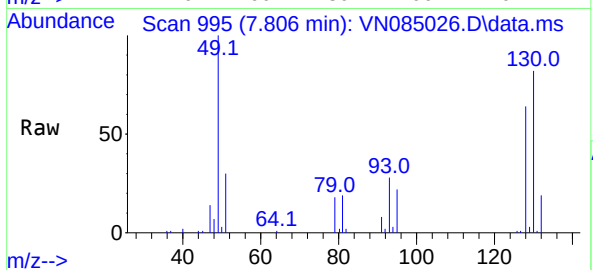
Quant Time: Nov 25 15:14:10 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:38:04 2024
Response via : Initial Calibration



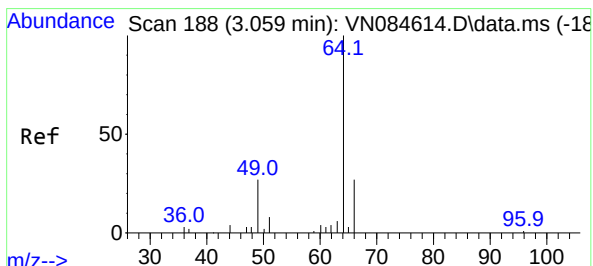
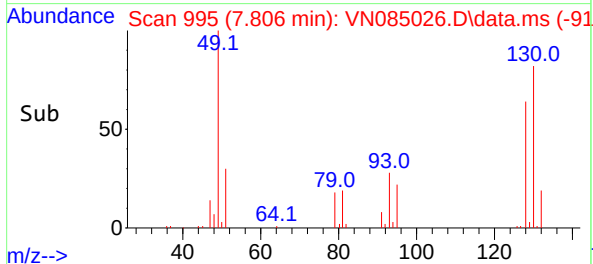
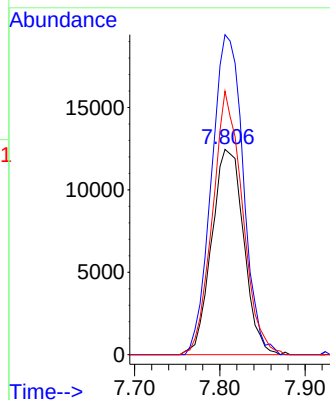


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.806 min Scan# 995
Delta R.T. 0.000 min
Lab File: VN085026.D
Acq: 25 Nov 2024 13:14

Instrument :
MSVOA_N
ClientSampleId :

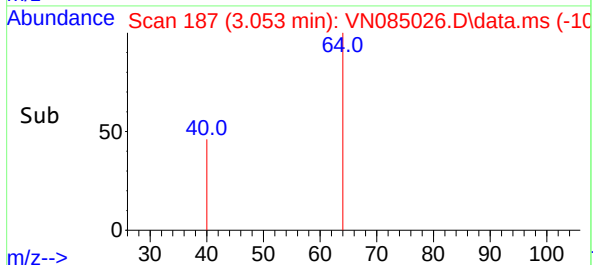
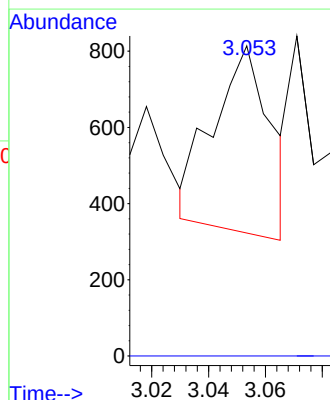
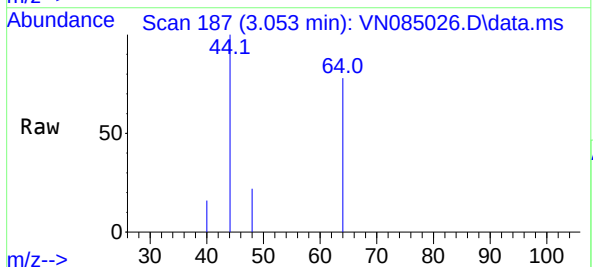


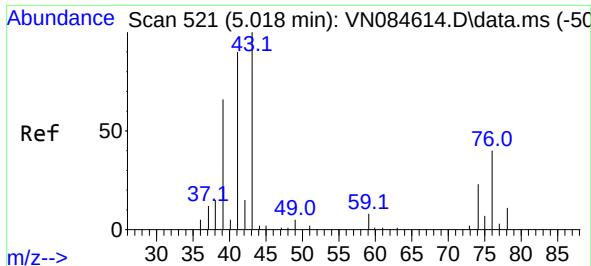
Tgt Ion:128 Resp: 32568
Ion Ratio Lower Upper
128 100
49 154.3 0.0 427.0
130 120.0 0.0 322.2



#6
Chloroethane
Concen: 0.486 ug/l
RT: 3.053 min Scan# 187
Delta R.T. -0.006 min
Lab File: VN085026.D
Acq: 25 Nov 2024 13:14

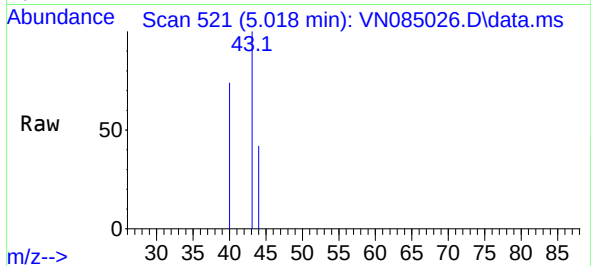
Tgt Ion: 64 Resp: 676
Ion Ratio Lower Upper
64 100
66 0.0 22.1 33.1#



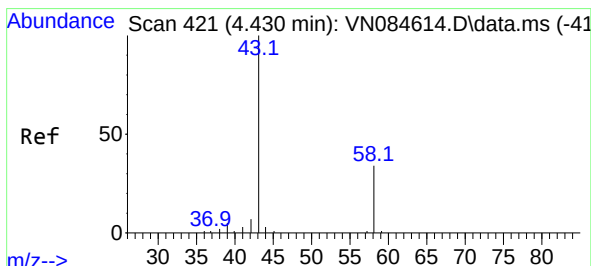
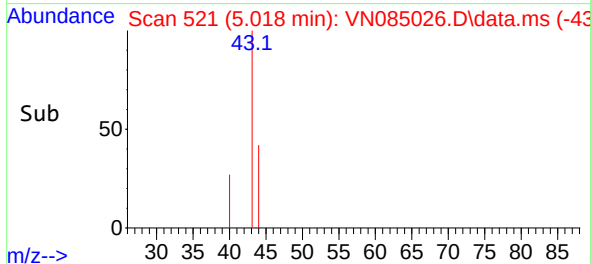
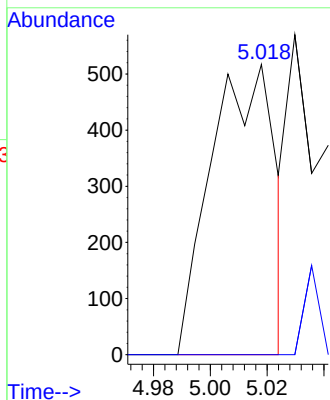


#12
Methyl Acetate
Concen: 0.273 ug/l
RT: 5.018 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN085026.D
Acq: 25 Nov 2024 13:14

Instrument :
MSVOA_N
ClientSampleId :

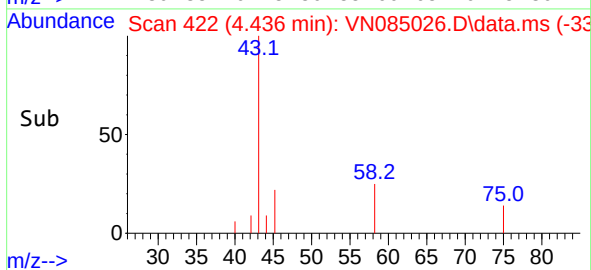
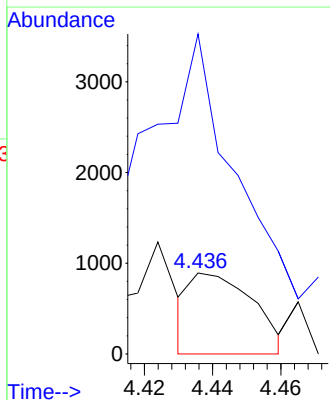
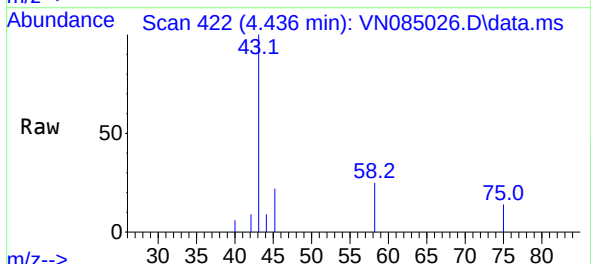


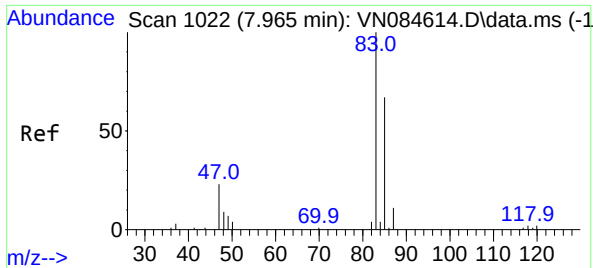
Tgt Ion: 43 Resp: 807
Ion Ratio Lower Upper
43 100
74 0.0 19.0 28.4#



#15
Acetone
Concen: 4.596 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.006 min
Lab File: VN085026.D
Acq: 25 Nov 2024 13:14

Tgt Ion: 58 Resp: 1143
Ion Ratio Lower Upper
58 100
43 351.5 233.0 349.6#

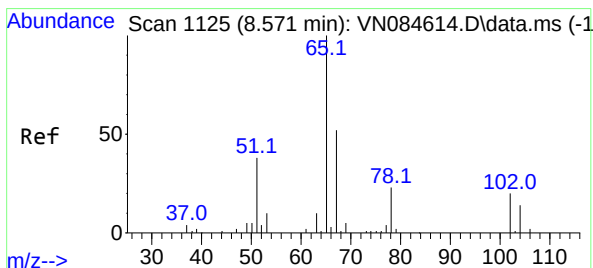
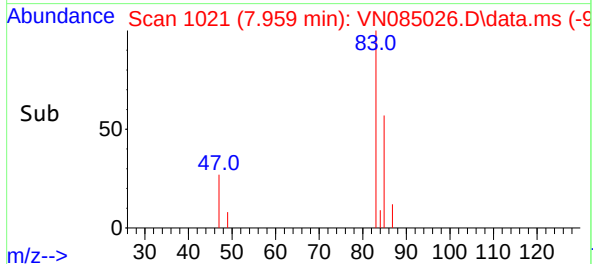
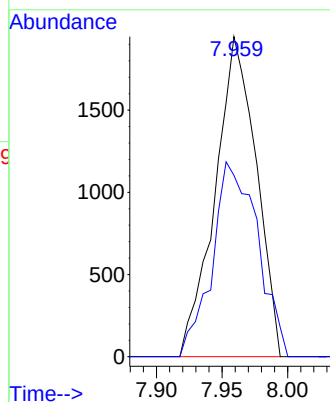
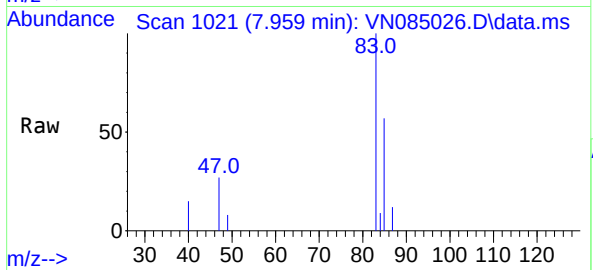




#25
Chloroform
Concen: 1.066 ug/l
RT: 7.959 min Scan# 1021
Delta R.T. -0.006 min
Lab File: VN085026.D
Acq: 25 Nov 2024 13:14

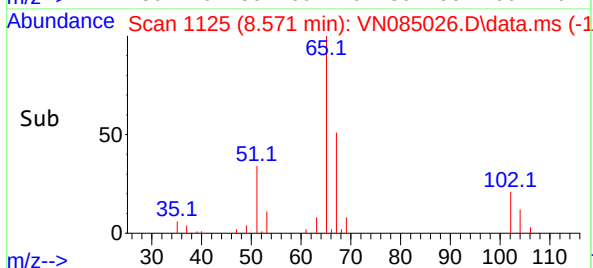
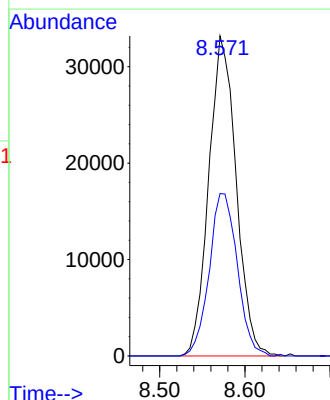
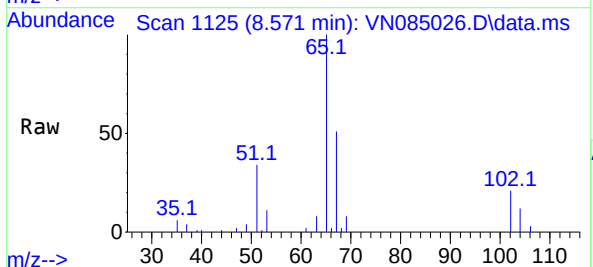
Instrument :
MSVOA_N
ClientSampleId :

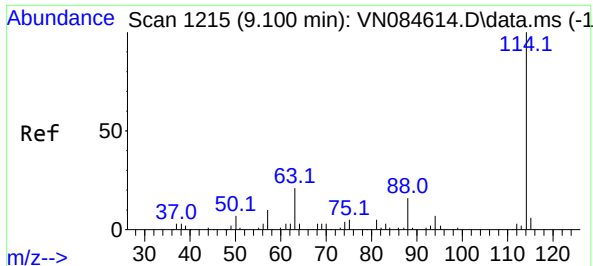
Tgt Ion: 83 Resp: 4251
Ion Ratio Lower Upper
83 100
85 56.7 53.4 80.2



#27
1,2-Dichloroethane-d4
Concen: 28.289 ug/l
RT: 8.571 min Scan# 1125
Delta R.T. -0.000 min
Lab File: VN085026.D
Acq: 25 Nov 2024 13:14

Tgt Ion: 65 Resp: 74069
Ion Ratio Lower Upper
65 100
67 52.0 40.7 61.1

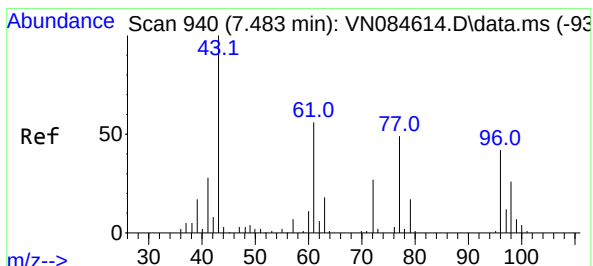
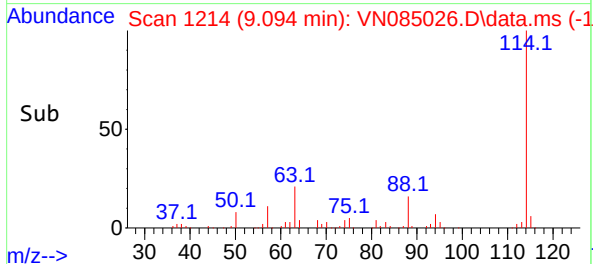
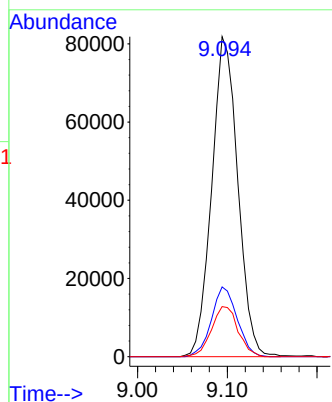
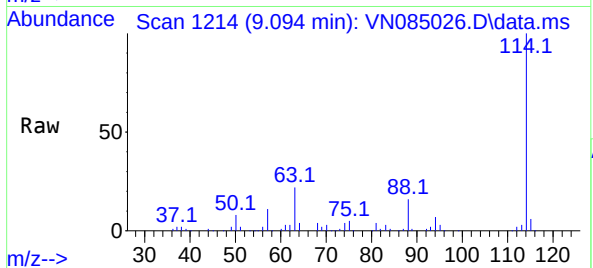




#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.094 min Scan# 114
Delta R.T. -0.006 min
Lab File: VN085026.D
Acq: 25 Nov 2024 13:14

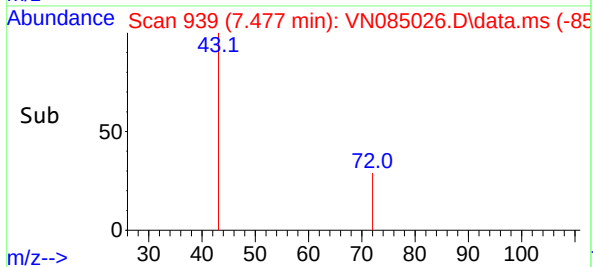
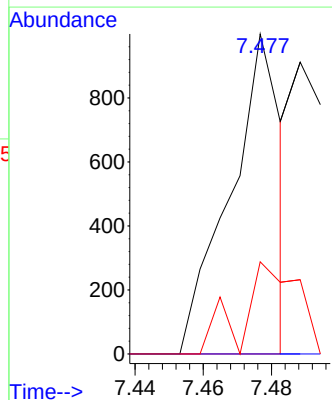
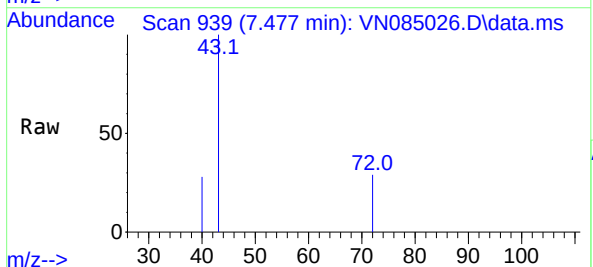
Instrument :
MSVOA_N
ClientSampleId :

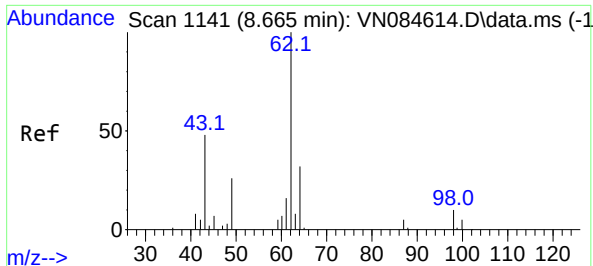
Tgt Ion:114 Resp: 164674
Ion Ratio Lower Upper
114 100
63 21.5 16.8 25.2
88 16.0 12.9 19.3



#30
2-Butanone
Concen: 0.917 ug/l
RT: 7.477 min Scan# 939
Delta R.T. -0.006 min
Lab File: VN085026.D
Acq: 25 Nov 2024 13:14

Tgt Ion: 43 Resp: 1049
Ion Ratio Lower Upper
43 100
57 0.0 6.2 9.4#
72 25.1 21.5 32.3

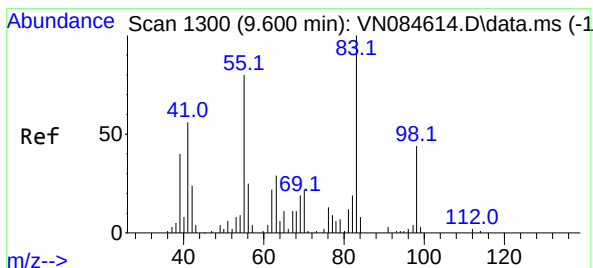
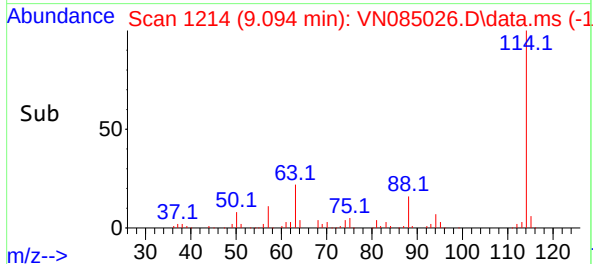
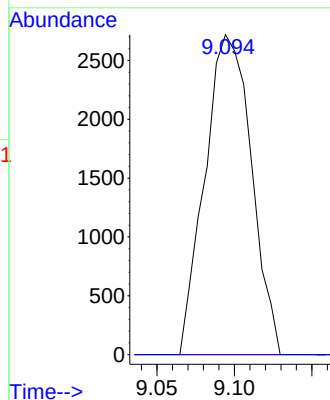
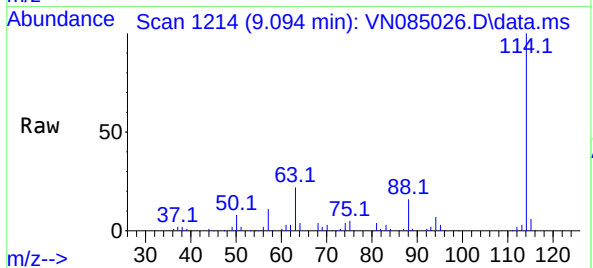




#36
1,2-Dichloroethane
Concen: 2.081 ug/l
RT: 9.094 min Scan# 1141
Delta R.T. 0.429 min
Lab File: VN085026.D
Acq: 25 Nov 2024 13:14

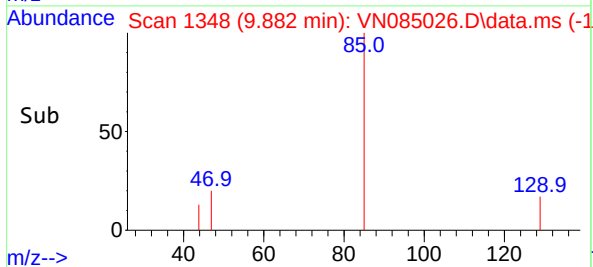
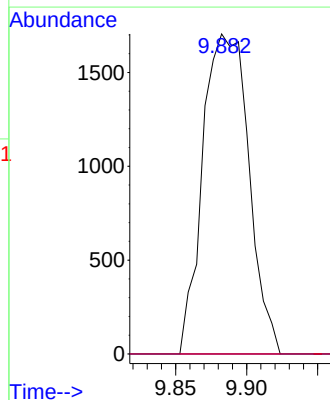
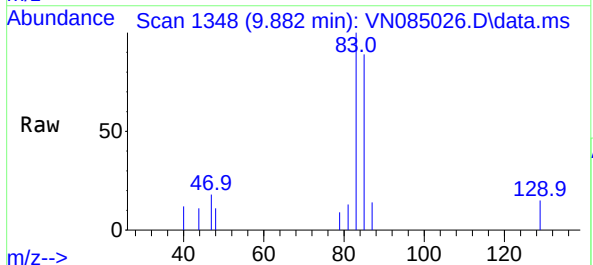
Instrument :
MSVOA_N
ClientSampleId :

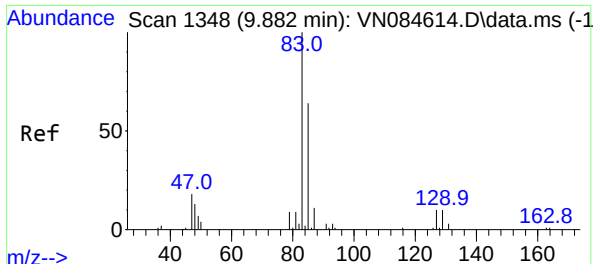
Tgt Ion: 62 Resp: 5674
Ion Ratio Lower Upper
62 100
98 0.0 7.8 11.6#



#38
Methylcyclohexane
Concen: 1.442 ug/l
RT: 9.882 min Scan# 1348
Delta R.T. 0.282 min
Lab File: VN085026.D
Acq: 25 Nov 2024 13:14

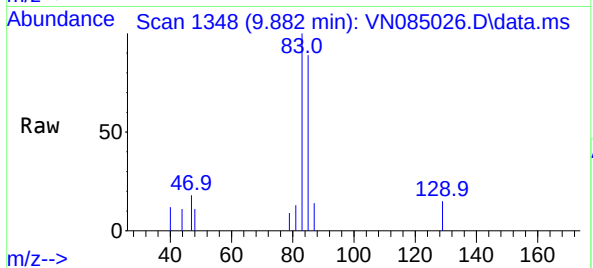
Tgt Ion: 83 Resp: 3850
Ion Ratio Lower Upper
83 100
55 0.0 39.6 118.8#
98 0.0 23.2 69.5#



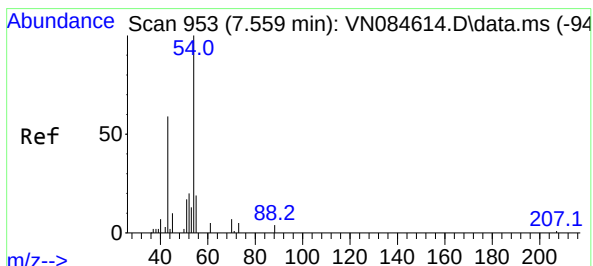
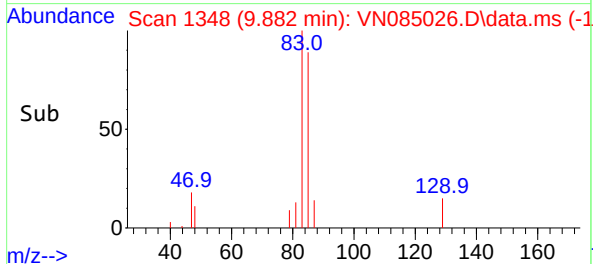
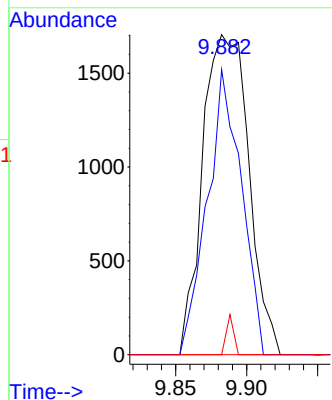


#41
Bromodichloromethane
Concen: 1.301 ug/l
RT: 9.882 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN085026.D
Acq: 25 Nov 2024 13:14

Instrument :
MSVOA_N
ClientSampleId :

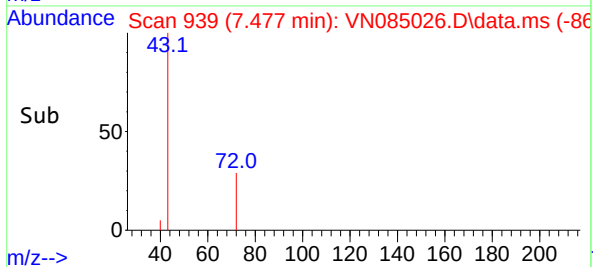
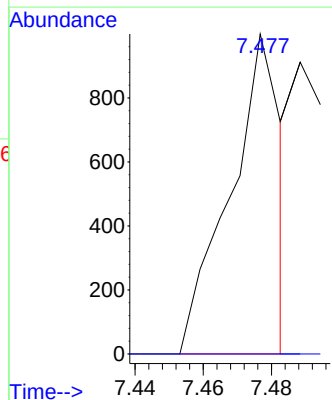
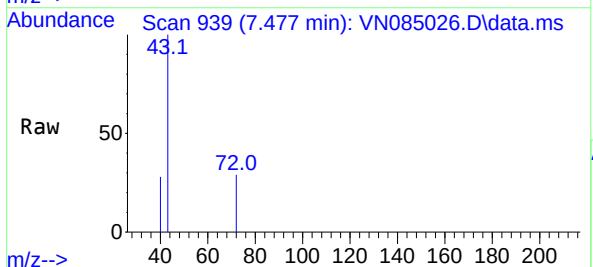


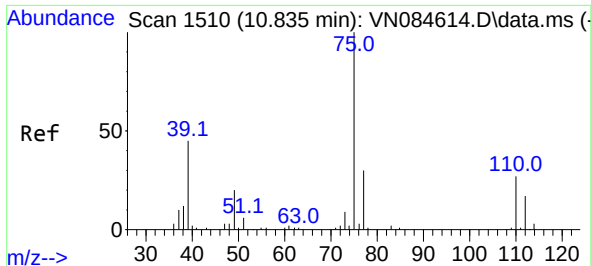
Tgt Ion: 83 Resp: 3850
Ion Ratio Lower Upper
83 100
85 89.0 51.0 76.6#
127 0.0 7.8 11.6#



#43
Ethyl Acetate
Concen: 0.436 ug/l
RT: 7.477 min Scan# 939
Delta R.T. -0.082 min
Lab File: VN085026.D
Acq: 25 Nov 2024 13:14

Tgt Ion: 43 Resp: 1049
Ion Ratio Lower Upper
43 100
45 0.0 11.0 16.4#

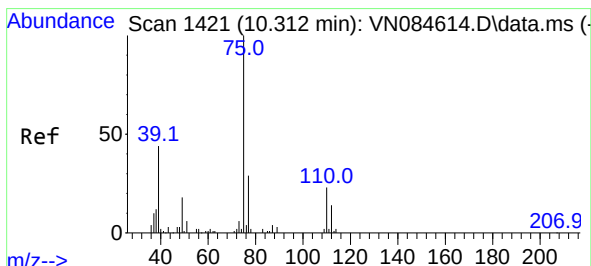
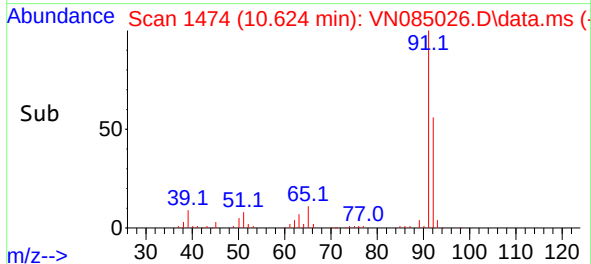
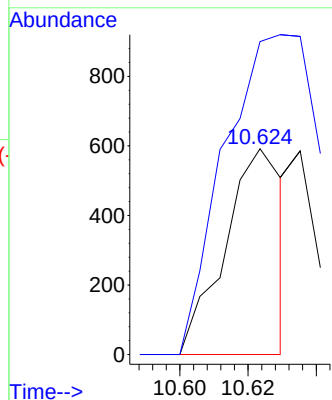
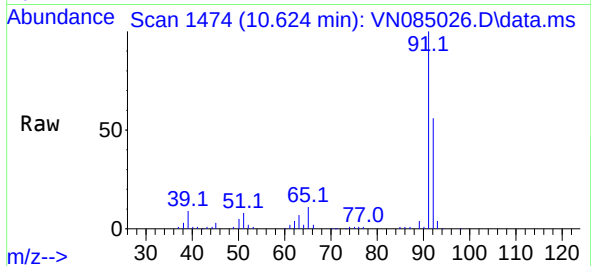




#48
t-1,3-Dichloropropene
Concen: 0.240 ug/l
RT: 10.624 min Scan# 1474
Delta R.T. -0.212 min
Lab File: VN085026.D
Acq: 25 Nov 2024 13:14

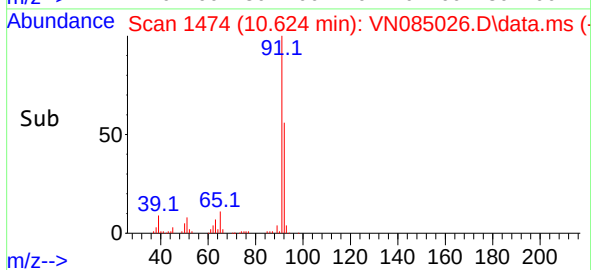
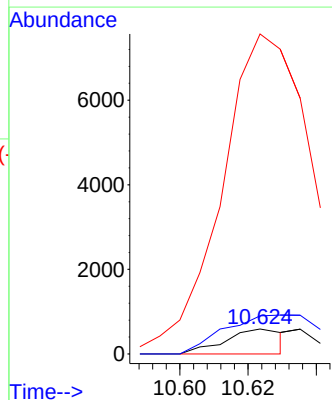
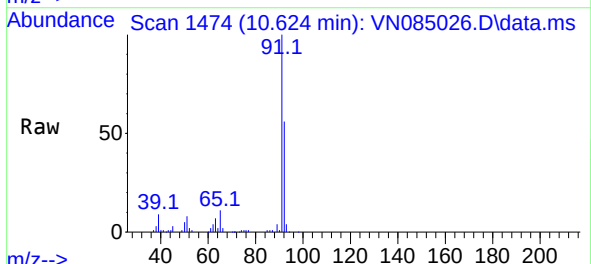
Instrument :
MSVOA_N
ClientSampleId :

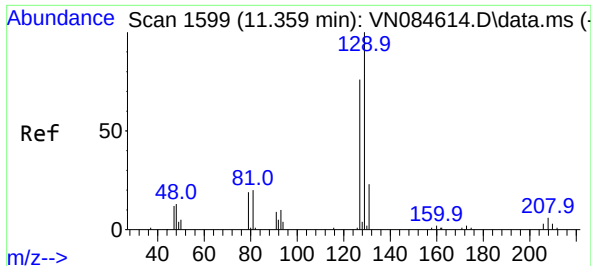
Tgt Ion: 75 Resp: 702
Ion Ratio Lower Upper
75 100
77 152.0 24.4 36.6#



#49
cis-1,3-Dichloropropene
Concen: 0.224 ug/l
RT: 10.624 min Scan# 1474
Delta R.T. 0.312 min
Lab File: VN085026.D
Acq: 25 Nov 2024 13:14

Tgt Ion: 75 Resp: 702
Ion Ratio Lower Upper
75 100
77 152.0 23.4 35.2#
39 1142.6 35.4 53.2#

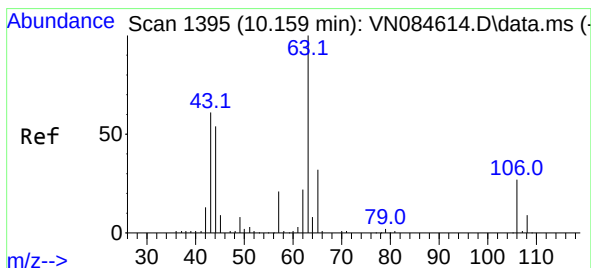
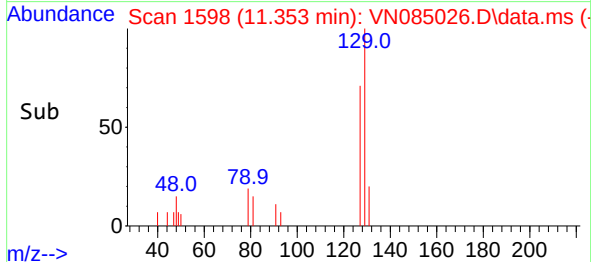
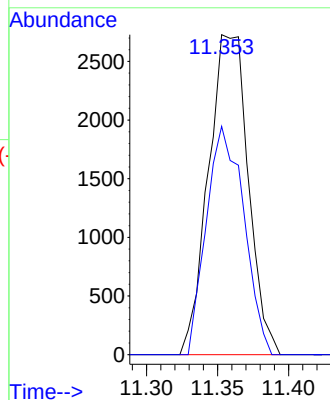
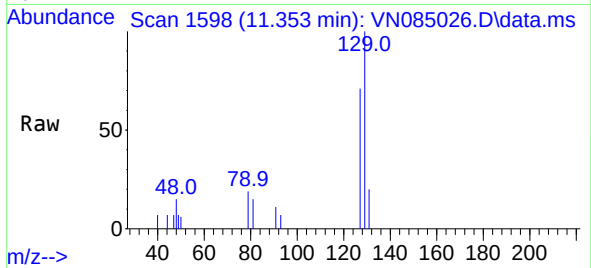




#53
Dibromochloromethane
Concen: 2.460 ug/l
RT: 11.353 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN085026.D
Acq: 25 Nov 2024 13:14

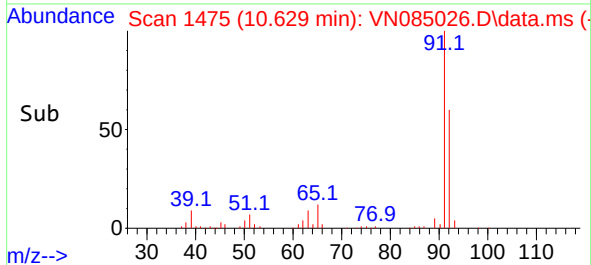
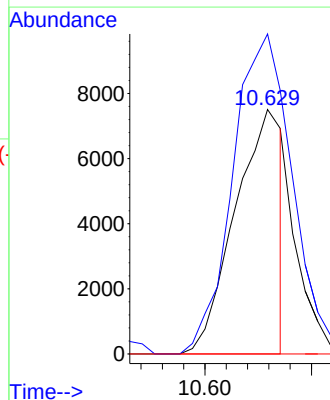
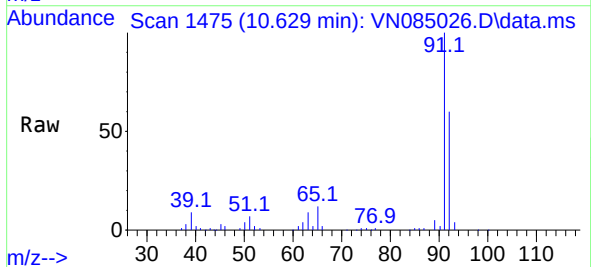
Instrument :
MSVOA_N
ClientSampleId :

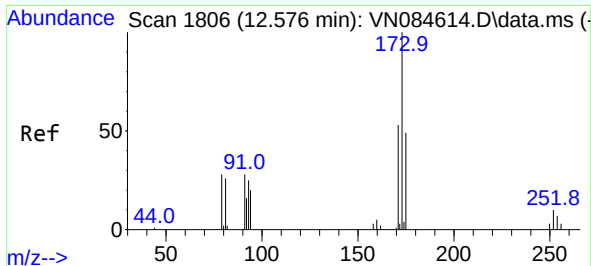
Tgt Ion:129 Resp: 5331
Ion Ratio Lower Upper
129 100
127 66.9 39.6 119.0



#55
2-Chloroethyl vinyl ether
Concen: 8.305 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.470 min
Lab File: VN085026.D
Acq: 25 Nov 2024 13:14

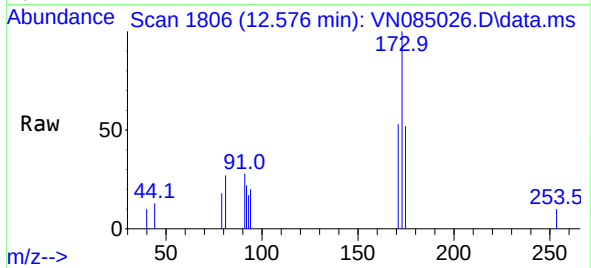
Tgt Ion: 63 Resp: 11623
Ion Ratio Lower Upper
63 100
65 132.5 25.5 38.3#
106 0.0 22.3 33.5#



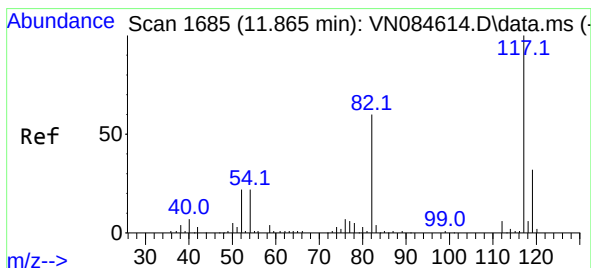
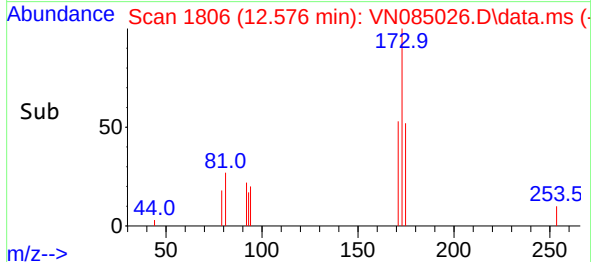
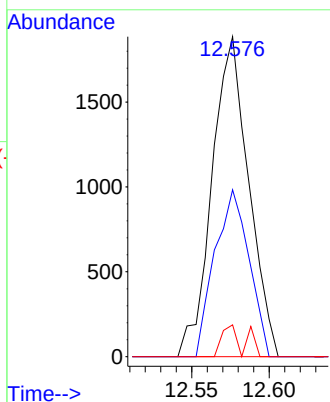


#56
Bromoform
Concen: 2.135 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. -0.000 min
Lab File: VN085026.D
Acq: 25 Nov 2024 13:14

Instrument :
MSVOA_N
ClientSampleId :

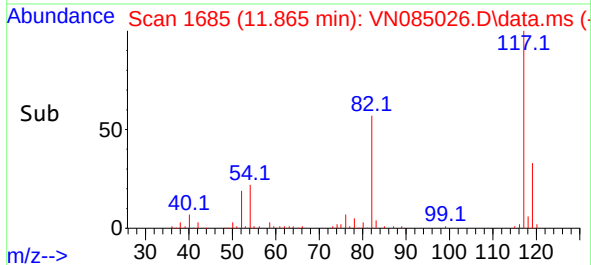
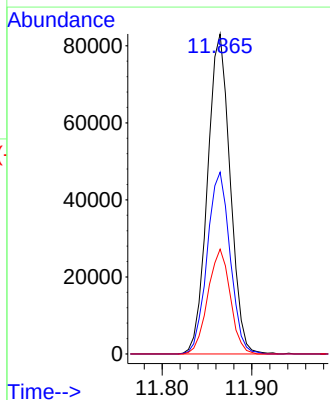
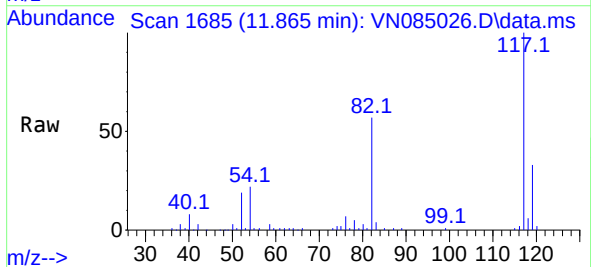


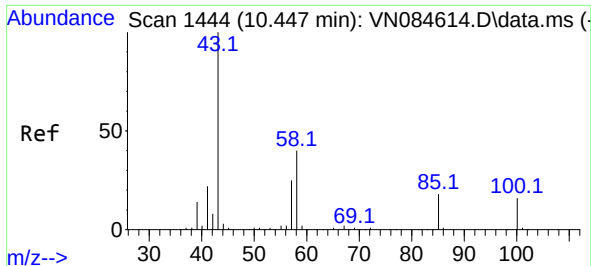
Tgt Ion:173 Resp: 3101
Ion Ratio Lower Upper
173 100
175 48.6 39.4 59.2
254 3.9 6.4 9.6#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN085026.D
Acq: 25 Nov 2024 13:14

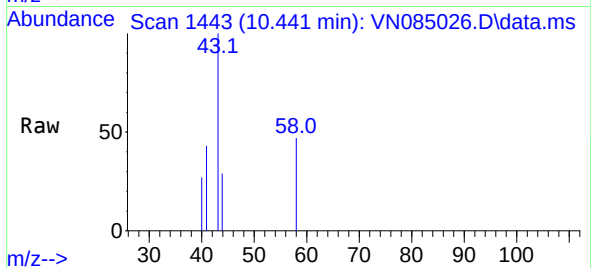
Tgt Ion:117 Resp: 145379
Ion Ratio Lower Upper
117 100
82 57.7 45.5 68.3
119 32.4 25.3 37.9



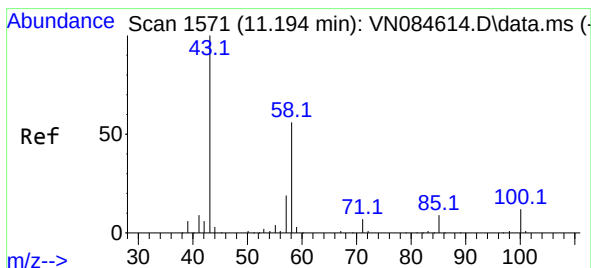
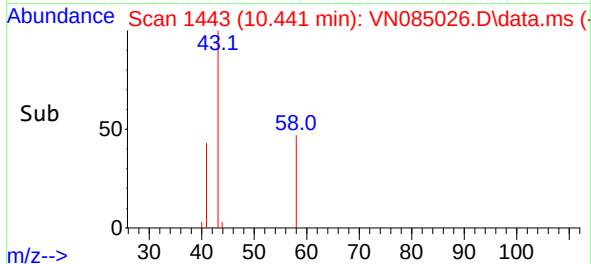
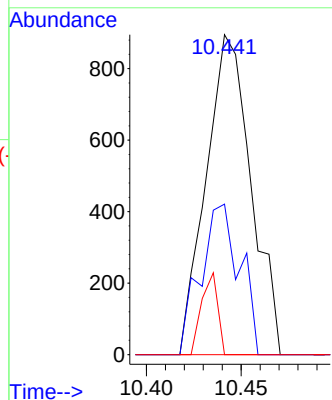


#58
4-Methyl-2-Pentanone
Concen: 0.644 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.006 min
Lab File: VN085026.D
Acq: 25 Nov 2024 13:14

Instrument :
MSVOA_N
ClientSampleId :

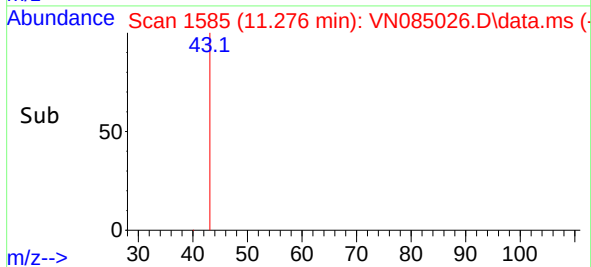
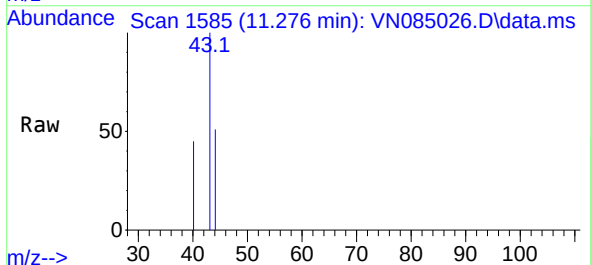
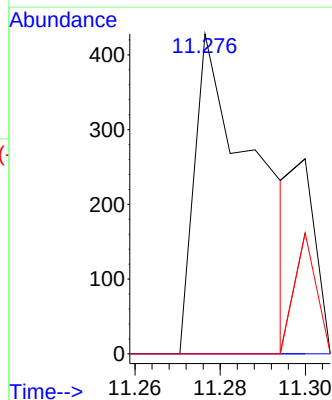


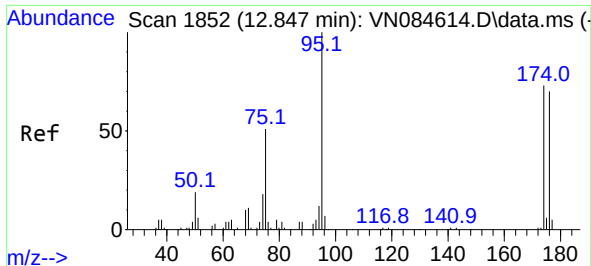
Tgt Ion: 43 Resp: 1476
Ion Ratio Lower Upper
43 100
58 41.3 31.2 46.8
85 9.2 14.9 22.3#



#59
2-Hexanone
Concen: 0.252 ug/l
RT: 11.276 min Scan# 1585
Delta R.T. 0.082 min
Lab File: VN085026.D
Acq: 25 Nov 2024 13:14

Tgt Ion: 43 Resp: 424
Ion Ratio Lower Upper
43 100
58 0.0 43.8 65.6#
57 0.0 15.0 22.6#

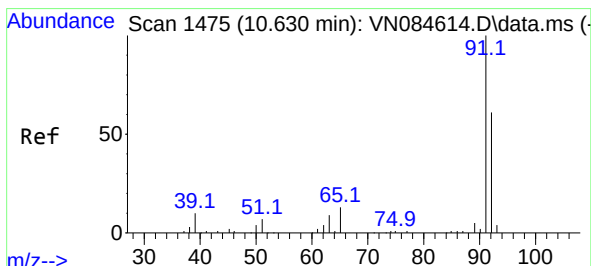
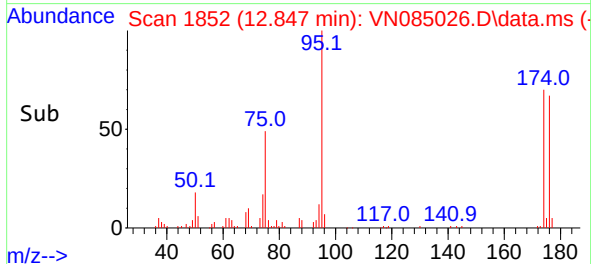
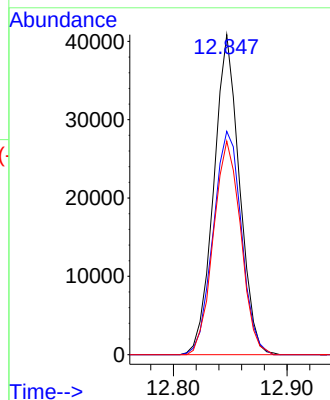
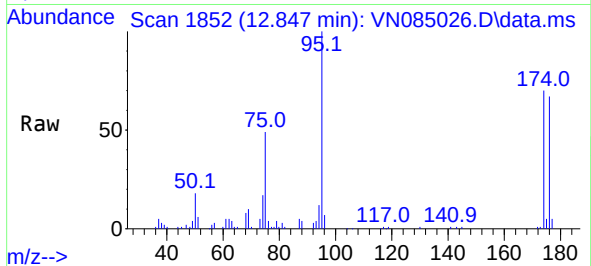




#60
4-Bromofluorobenzene
Concen: 25.662 ug/l
RT: 12.847 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN085026.D
Acq: 25 Nov 2024 13:14

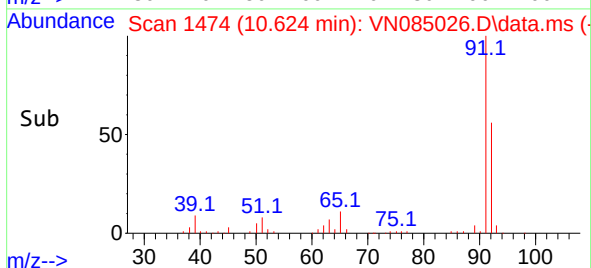
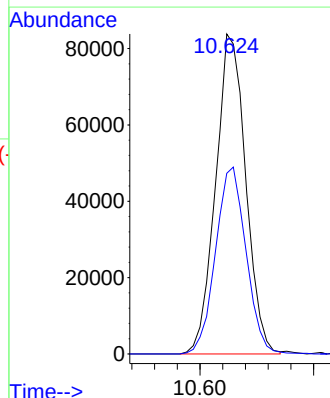
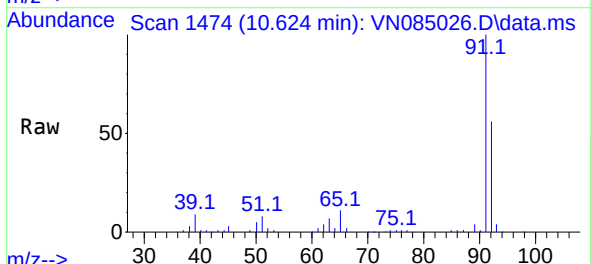
Instrument :
MSVOA_N
ClientSampleId :

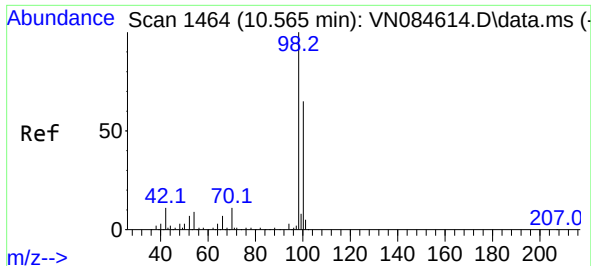
Tgt Ion: 95 Resp: 64237
Ion Ratio Lower Upper
95 100
174 76.9 59.6 89.4
176 71.1 58.6 88.0



#62
Toluene
Concen: 18.637 ug/l
RT: 10.624 min Scan# 1474
Delta R.T. -0.006 min
Lab File: VN085026.D
Acq: 25 Nov 2024 13:14

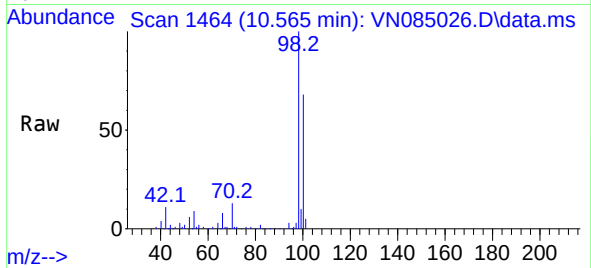
Tgt Ion: 91 Resp: 154315
Ion Ratio Lower Upper
91 100
92 59.2 47.5 71.3



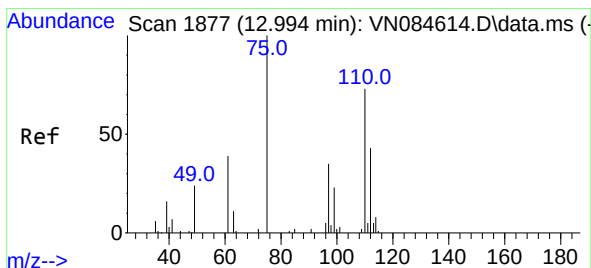
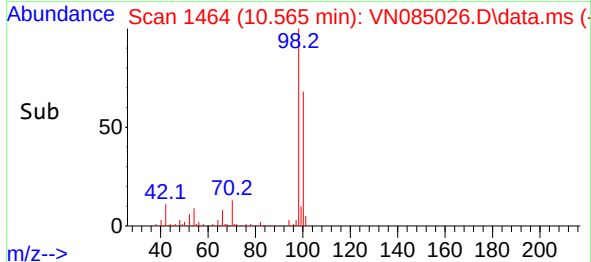
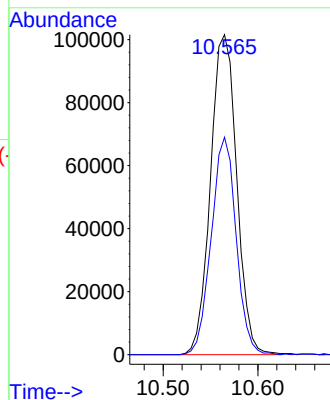


#63
Toluene-d8
Concen: 28.403 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN085026.D
Acq: 25 Nov 2024 13:14

Instrument :
MSVOA_N
ClientSampleId :

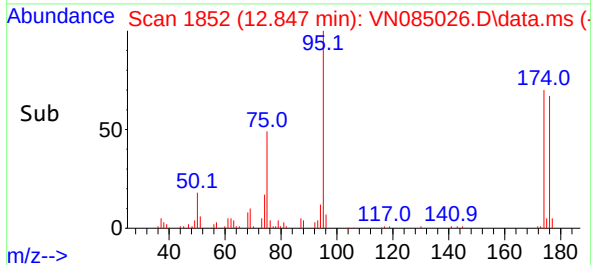
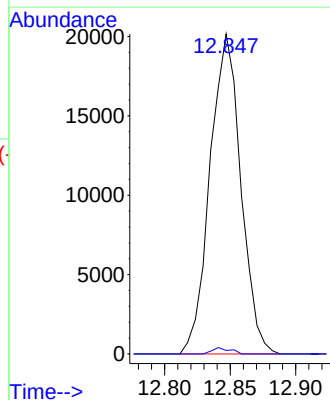
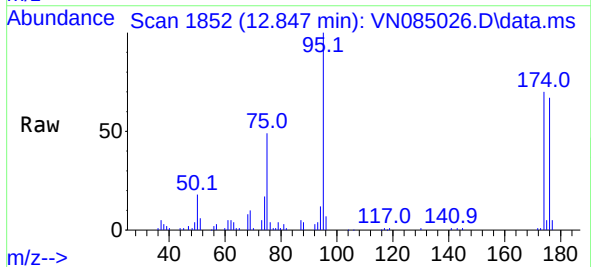


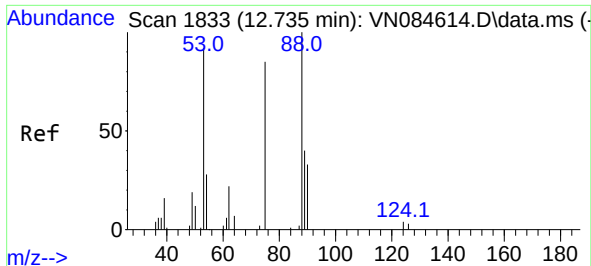
Tgt Ion: 98 Resp: 195474
Ion Ratio Lower Upper
98 100
100 64.4 52.2 78.2



#72
1,2,3-Trichloropropane
Concen: 14.919 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN085026.D
Acq: 25 Nov 2024 13:14

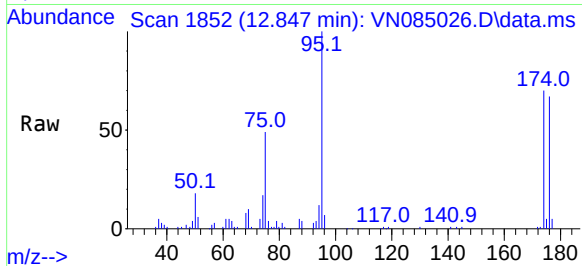
Tgt Ion: 75 Resp: 32965
Ion Ratio Lower Upper
75 100
77 1.1 0.0 358.4



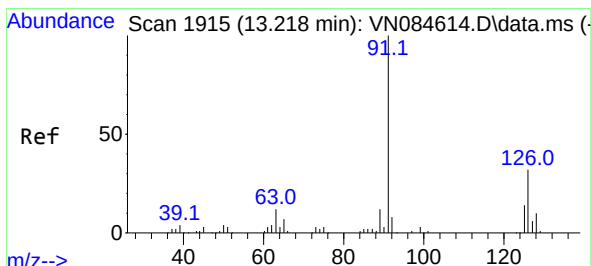
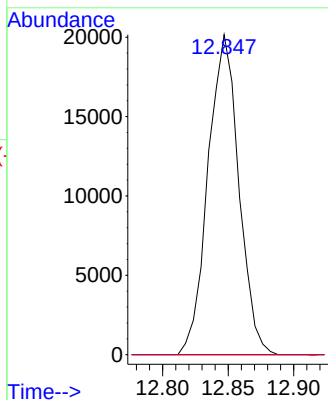
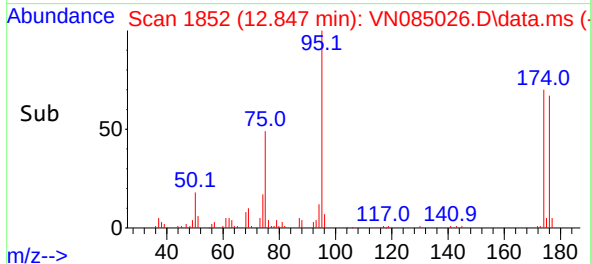


#77
t-1,4-Dichloro-2-butene
Concen: 36.377 ug/l
RT: 12.847 min Scan# 1833
Delta R.T. 0.112 min
Lab File: VN085026.D
Acq: 25 Nov 2024 13:14

Instrument :
MSVOA_N
ClientSampleId :

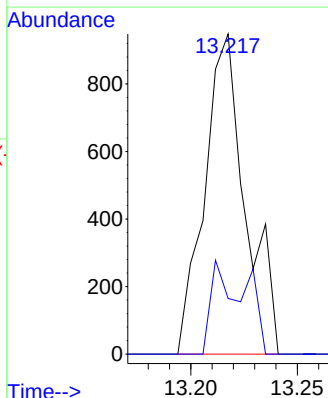
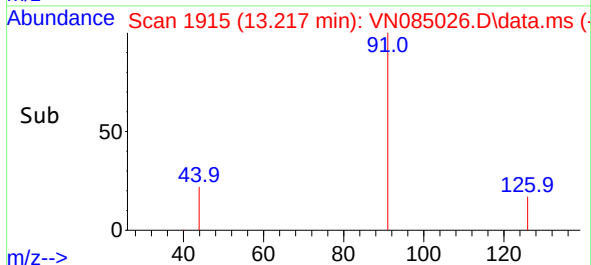
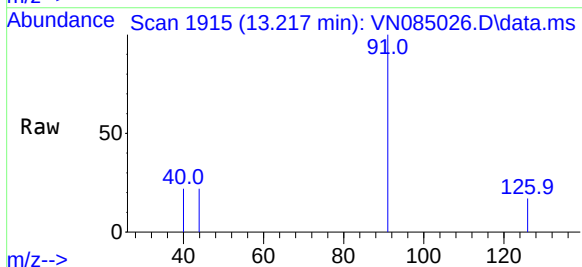


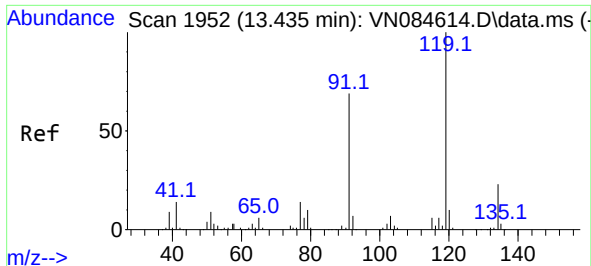
Tgt Ion: 75 Resp: 32965
Ion Ratio Lower Upper
75 100
53 0.0 52.4 157.2#
89 0.0 26.0 78.0#



#78
4-Chlorotoluene
Concen: 0.207 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.000 min
Lab File: VN085026.D
Acq: 25 Nov 2024 13:14

Tgt Ion: 91 Resp: 1270
Ion Ratio Lower Upper
91 100
126 16.6 0.0 63.4

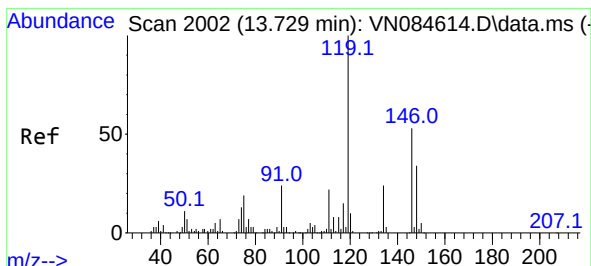
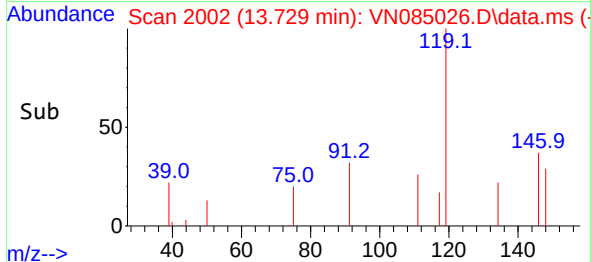
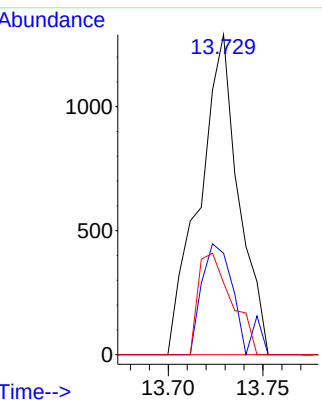
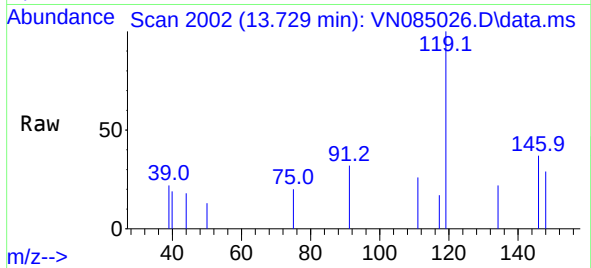




#79
tert-butylbenzene
Concen: 0.330 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.294 min
Lab File: VN085026.D
Acq: 25 Nov 2024 13:14

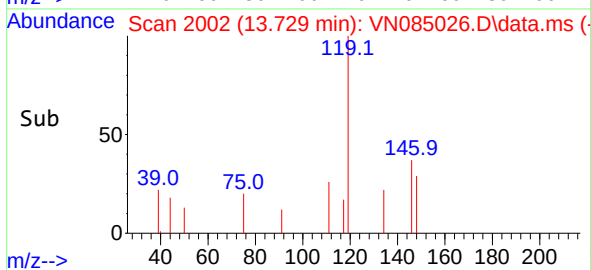
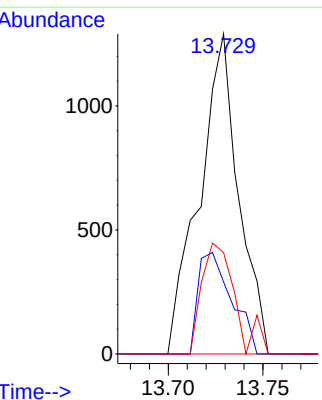
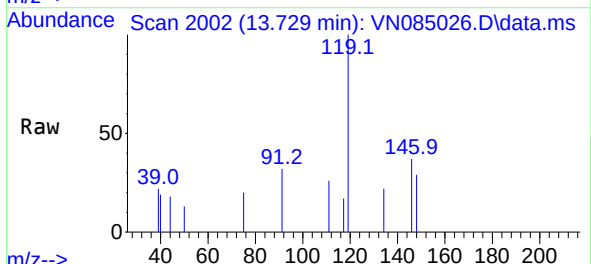
Instrument :
MSVOA_N
ClientSampleId :

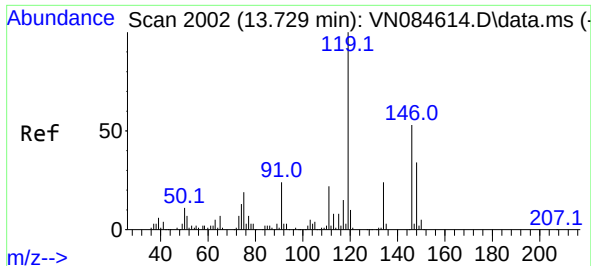
Tgt Ion:	119	Resp:	1861
Ion	Ratio	Lower	Upper
119	100		
91	26.3	0.0	143.2
134	27.1	0.0	49.4



#82
p-Isopropyltoluene
Concen: 0.285 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN085026.D
Acq: 25 Nov 2024 13:14

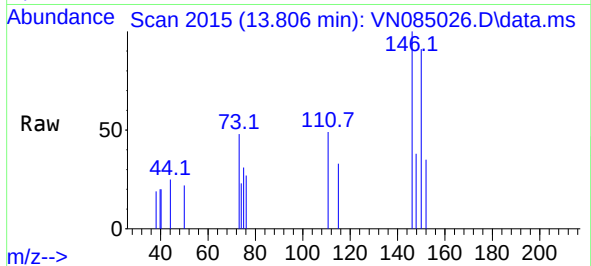
Tgt Ion:	119	Resp:	1861
Ion	Ratio	Lower	Upper
119	100		
134	27.1	0.0	51.4
91	26.3	0.0	50.4



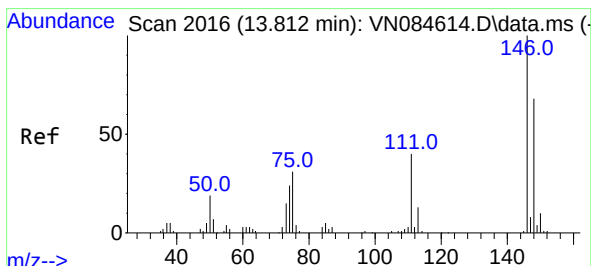
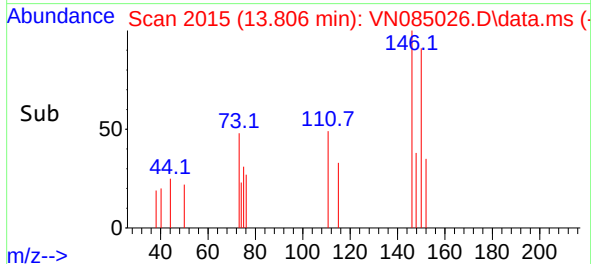
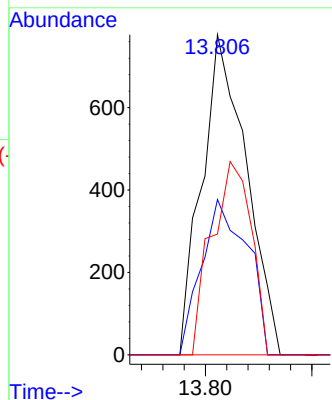


#83
1,3-Dichlorobenzene
Concen: 0.296 ug/l
RT: 13.806 min Scan# 2015
Delta R.T. 0.076 min
Lab File: VN085026.D
Acq: 25 Nov 2024 13:14

Instrument :
MSVOA_N
ClientSampleId :

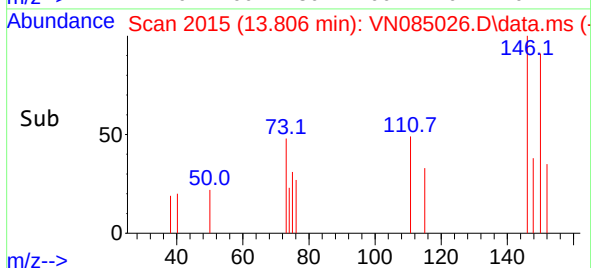
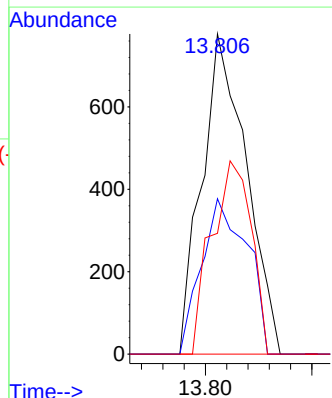
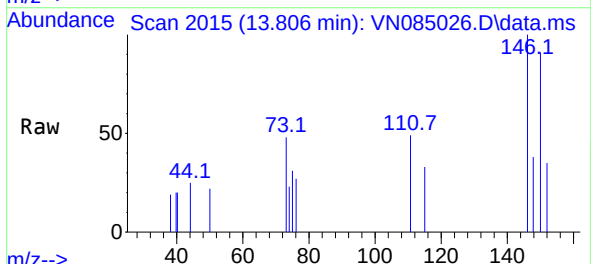


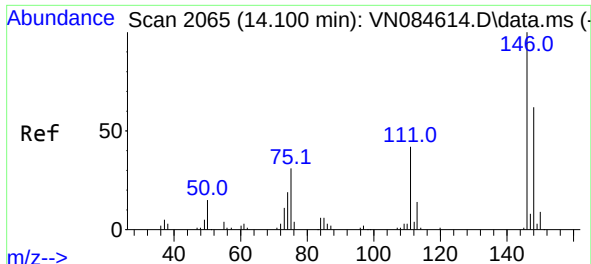
Tgt Ion:146 Resp: 1126
Ion Ratio Lower Upper
146 100
111 50.0 21.0 63.0
148 54.2 31.3 93.8



#84
1,4-Dichlorobenzene
Concen: 0.299 ug/l
RT: 13.806 min Scan# 2015
Delta R.T. -0.006 min
Lab File: VN085026.D
Acq: 25 Nov 2024 13:14

Tgt Ion:146 Resp: 1126
Ion Ratio Lower Upper
146 100
111 50.0 20.2 60.5
148 54.2 32.6 98.0





#87

1,2-Dichlorobenzene

Concen: 0.300 ug/l

RT: 13.806 min Scan# 2065

Delta R.T. -0.294 min

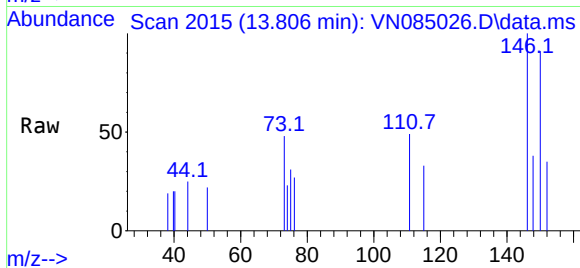
Lab File: VN085026.D

Acq: 25 Nov 2024 13:14

Instrument :

MSVOA_N

ClientSampleId :



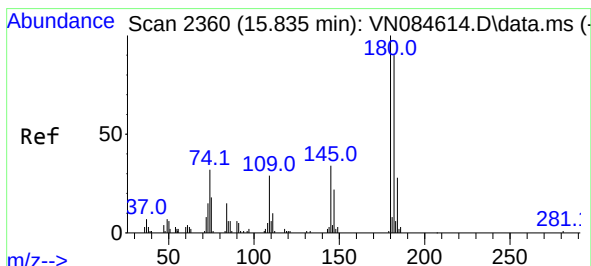
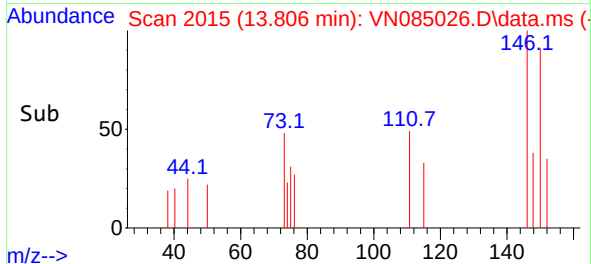
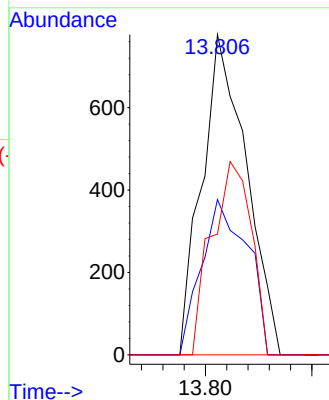
Tgt Ion:146 Resp: 1126

Ion Ratio Lower Upper

146 100

111 50.0 22.4 67.0

148 54.2 32.6 98.0



#89

1,2,4-Trichlorobenzene

Concen: 0.383 ug/l

RT: 15.829 min Scan# 2359

Delta R.T. -0.006 min

Lab File: VN085026.D

Acq: 25 Nov 2024 13:14

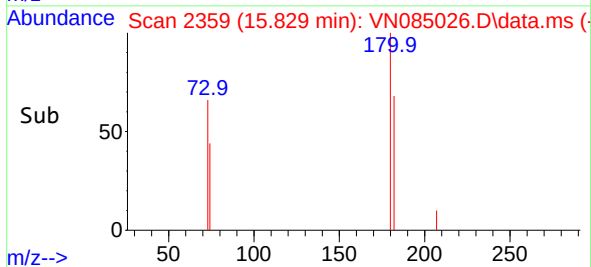
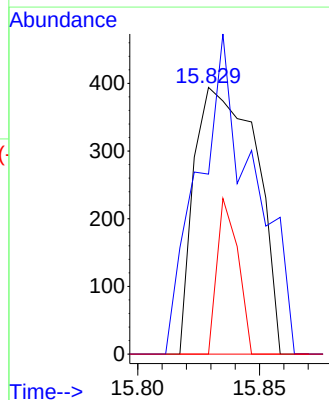
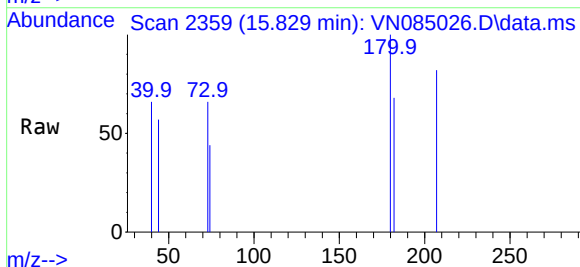
Tgt Ion:180 Resp: 699

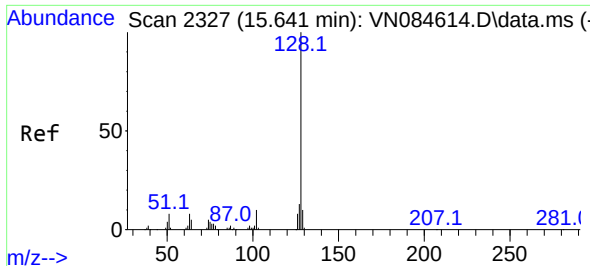
Ion Ratio Lower Upper

180 100

182 106.4 73.0 109.6

145 19.6 26.5 39.7#

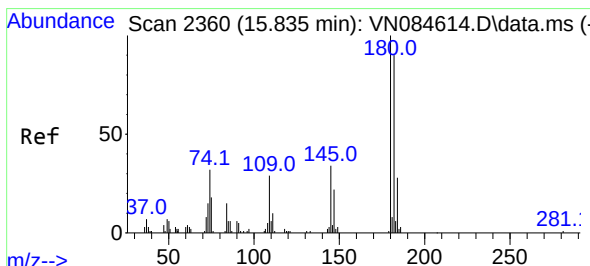
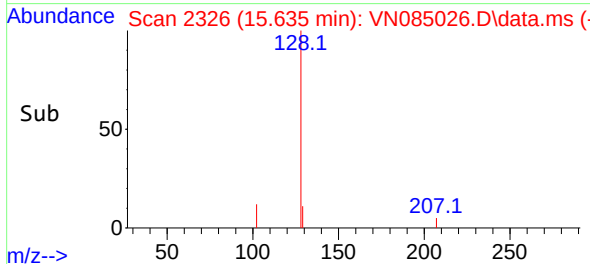
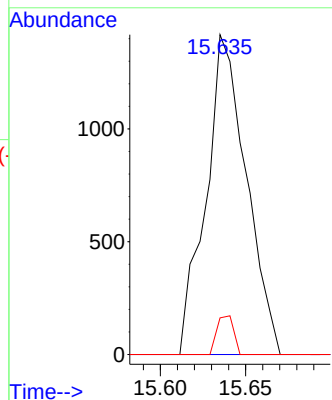
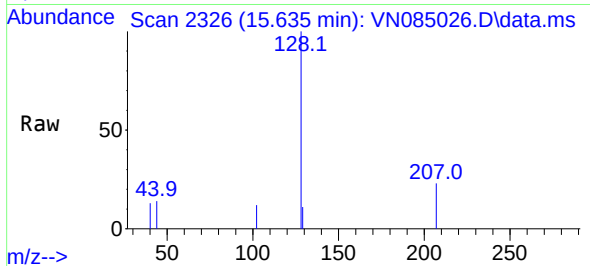




#91
Naphthalene
Concen: 0.401 ug/l
RT: 15.635 min Scan# 21
Delta R.T. -0.006 min
Lab File: VN085026.D
Acq: 25 Nov 2024 13:14

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion:128 Resp: 2338
Ion Ratio Lower Upper
128 100
127 0.0 10.3 15.5#
129 5.0 8.6 12.8#



#92
1,2,3-Trichlorobenzene
Concen: 0.383 ug/l
RT: 15.829 min Scan# 2359
Delta R.T. -0.006 min
Lab File: VN085026.D
Acq: 25 Nov 2024 13:14

Tgt Ion:180 Resp: 699
Ion Ratio Lower Upper
180 100
182 106.4 0.0 182.6
145 19.6 0.0 66.2

