

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081723\
 Data File : VN078935.D
 Acq On : 17 Aug 2023 19:06
 Operator : JC\MD
 Sample : 04027-02DL 10X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 18 05:35:04 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N081723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Aug 18 05:21:14 2023
 Response via : Initial Calibration

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

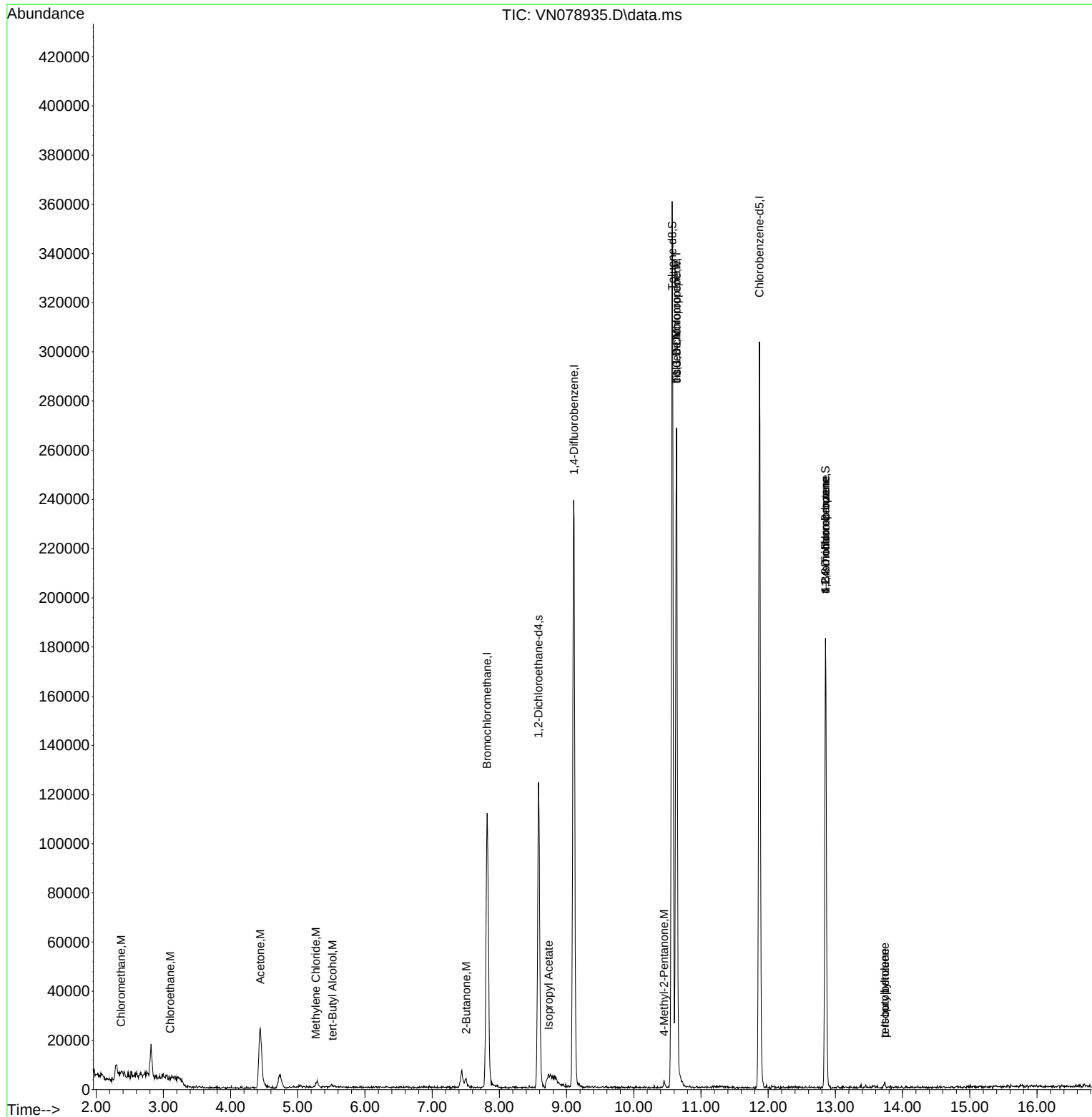
Internal Standards						
1) Bromochloromethane	7.818	128	38796	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.112	114	203683	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.870	117	167682	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	94266	29.992	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	99.967%
60) 4-Bromofluorobenzene	12.853	95	59819	24.456	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	81.533%
63) Toluene-d8	10.571	98	242373	30.952	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	103.167%
Target Compounds						
					Qvalue	
3) Chloromethane	2.371	50	1106	0.377	ug/l #	81
6) Chloroethane	3.100	64	506	0.268	ug/l #	44
15) Acetone	4.442	58	13702	35.277	ug/l	91
18) Methylene Chloride	5.271	84	795	0.324	ug/l #	39
23) tert-Butyl Alcohol	5.518	59	306	0.648	ug/l #	100
30) 2-Butanone	7.506	43	4777	2.634	ug/l #	69
44) Isopropyl Acetate	8.735	43	3067	0.495	ug/l #	52
48) t-1,3-Dichloropropene	10.635	75	1397	0.389	ug/l #	26
49) cis-1,3-Dichloropropene	10.635	75	1397	0.363	ug/l #	1
58) 4-Methyl-2-Pentanone	10.453	43	1216	0.366	ug/l #	96
62) Toluene	10.635	91	193695	21.158	ug/l	98
72) 1,2,3-Trichloropropane	12.853	75	34530	13.163	ug/l	1
77) t-1,4-Dichloro-2-butene	12.853	75	34530	35.421	ug/l #	3
79) tert-butylbenzene	13.735	119	1537	0.269	ug/l #	29
82) p-Isopropyltoluene	13.735	119	1537	0.250	ug/l #	54

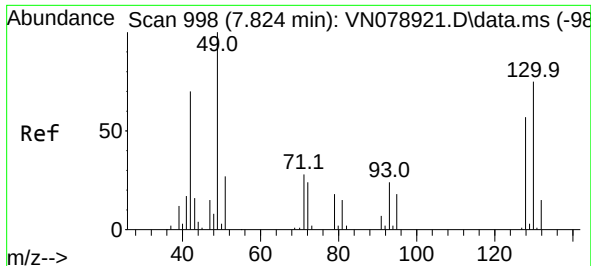
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081723\
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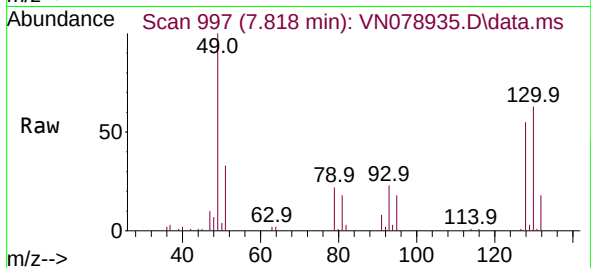
Quant Time: Aug 18 05:35:04 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N081723W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Aug 18 05:21:14 2023
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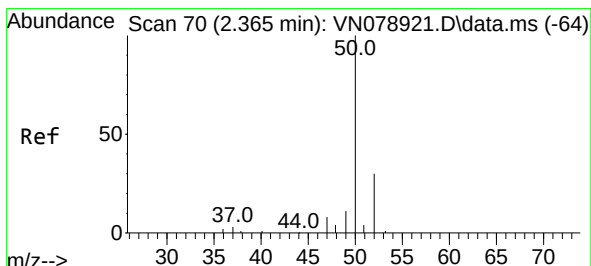
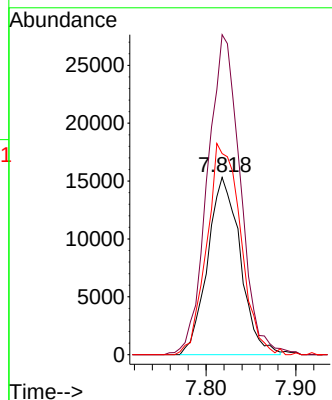
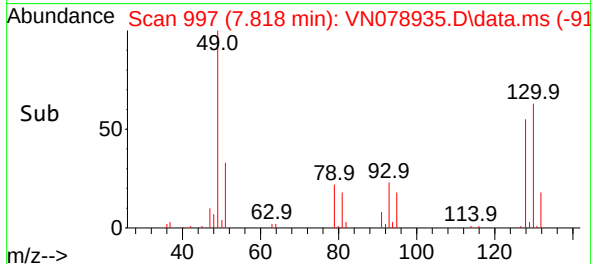


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.818 min Scan# 91
Delta R.T. -0.006 min
Lab File: VN078935.D
Acq: 17 Aug 2023 19:06

Instrument :
MSVOA_N
ClientSampleId :

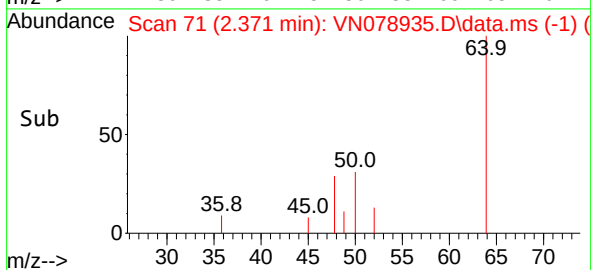
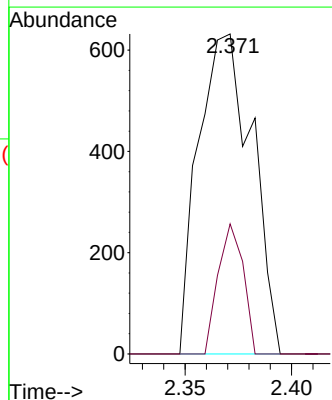
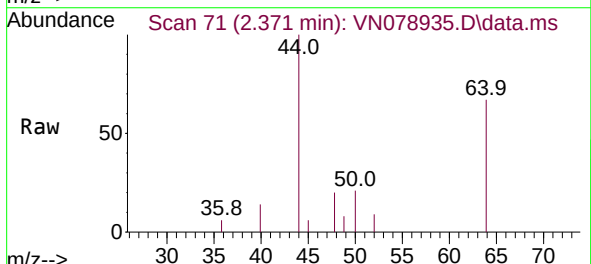


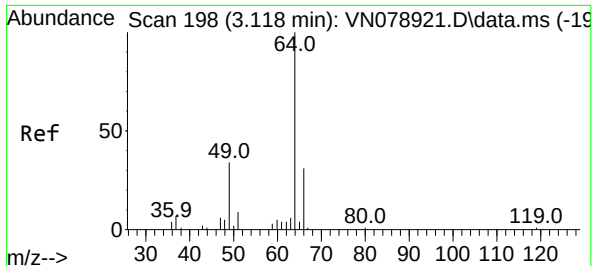
Tgt Ion:128 Resp: 38796
Ion Ratio Lower Upper
128 100
49 181.2 0.0 481.8
130 122.5 0.0 320.5



#3
Chloromethane
Concen: 0.377 ug/l
RT: 2.371 min Scan# 71
Delta R.T. 0.006 min
Lab File: VN078935.D
Acq: 17 Aug 2023 19:06

Tgt Ion: 50 Resp: 1106
Ion Ratio Lower Upper
50 100
52 40.7 24.2 36.4#

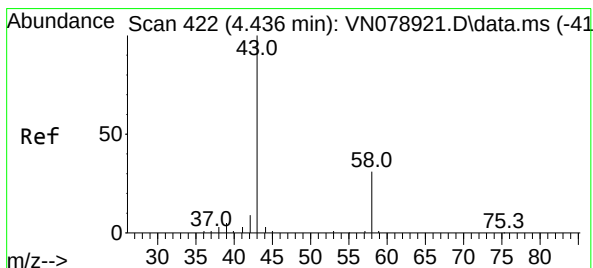
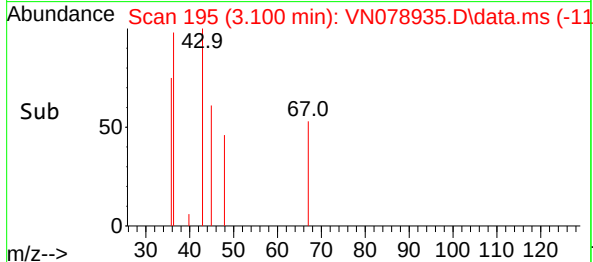
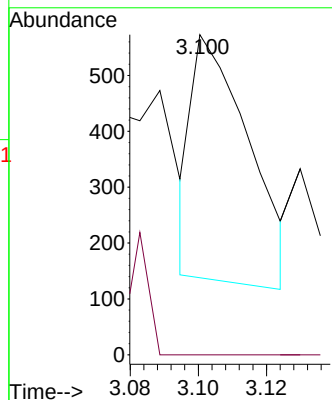
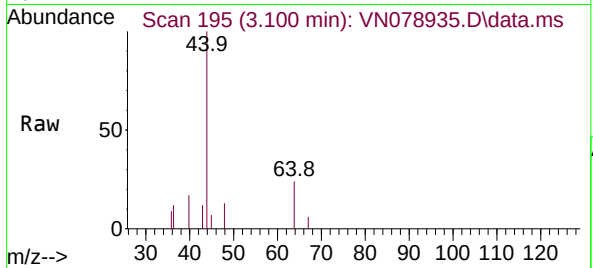




#6
Chloroethane
Concen: 0.268 ug/l
RT: 3.100 min Scan# 19
Delta R.T. -0.018 min
Lab File: VN078935.D
Acq: 17 Aug 2023 19:06

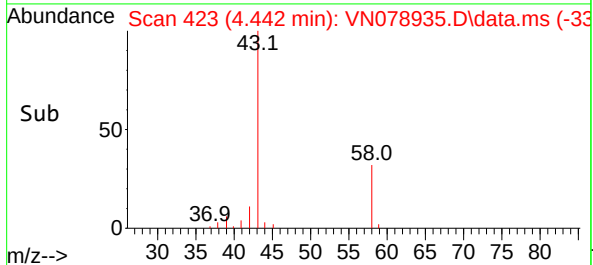
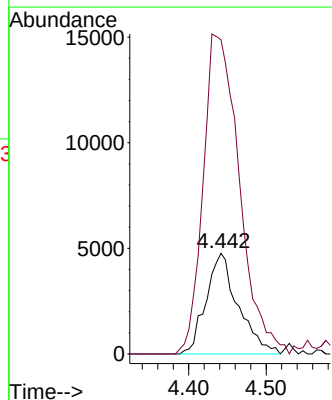
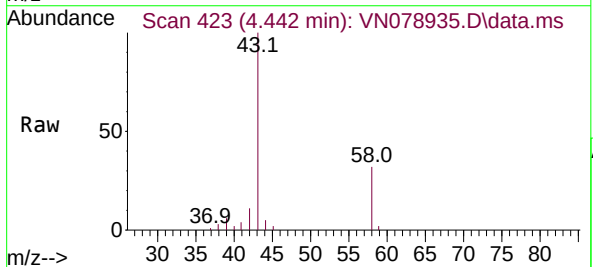
Instrument :
MSVOA_N
ClientSampleId :

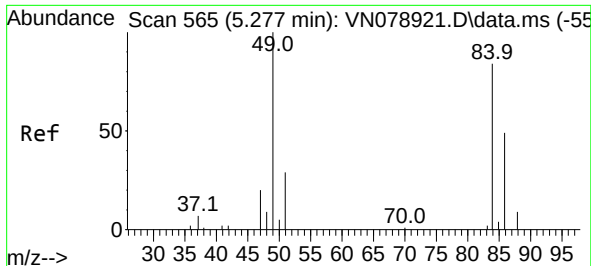
Tgt Ion: 64 Resp: 506
Ion Ratio Lower Upper
64 100
66 0.0 24.9 37.3#



#15
Acetone
Concen: 35.277 ug/l
RT: 4.442 min Scan# 423
Delta R.T. 0.006 min
Lab File: VN078935.D
Acq: 17 Aug 2023 19:06

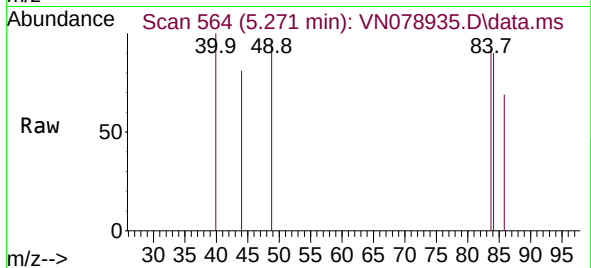
Tgt Ion: 58 Resp: 13702
Ion Ratio Lower Upper
58 100
43 307.1 260.6 390.8



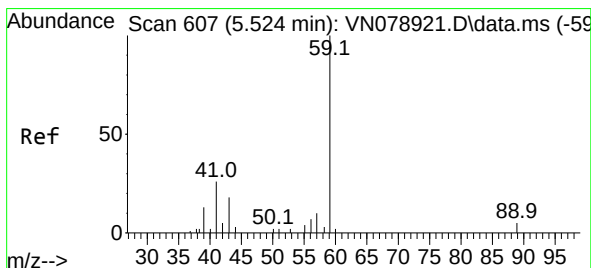
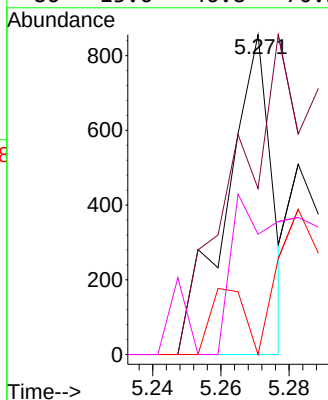
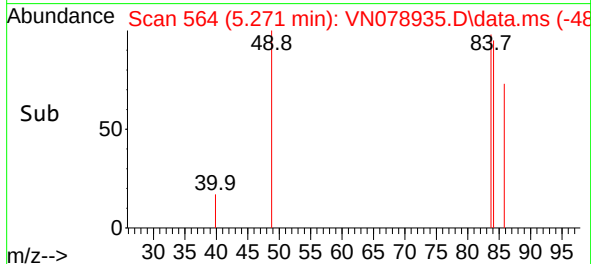


#18
Methylene Chloride
Concen: 0.324 ug/l
RT: 5.271 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN078935.D
Acq: 17 Aug 2023 19:06

Instrument :
MSVOA_N
ClientSampleId :

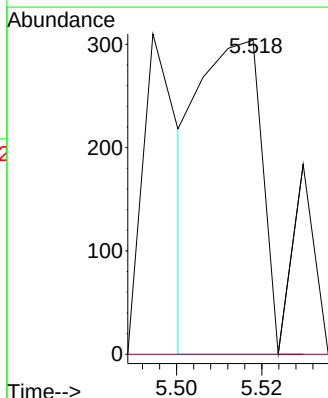
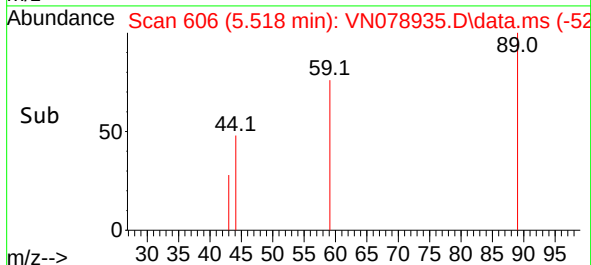
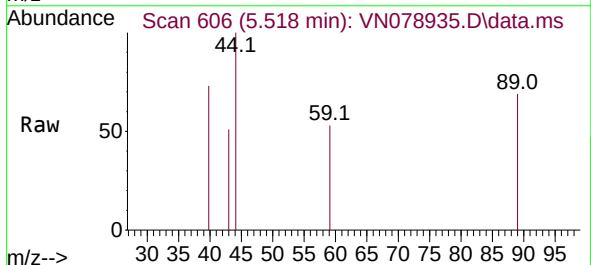


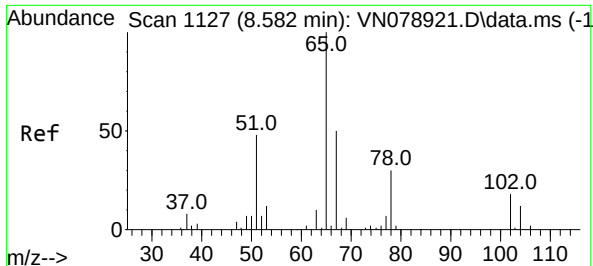
Tgt Ion: 84 Resp: 795
Ion Ratio Lower Upper
84 100
49 51.9 95.8 143.6#
51 0.0 28.6 43.0#
86 13.6 46.8 70.2#



#23
tert-Butyl Alcohol
Concen: 0.648 ug/l
RT: 5.518 min Scan# 606
Delta R.T. -0.006 min
Lab File: VN078935.D
Acq: 17 Aug 2023 19:06

Tgt Ion: 59 Resp: 306
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0





#27

1,2-Dichloroethane-d4

Concen: 29.992 ug/l

RT: 8.582 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VN078935.D

Acq: 17 Aug 2023 19:06

Instrument :

MSVOA_N

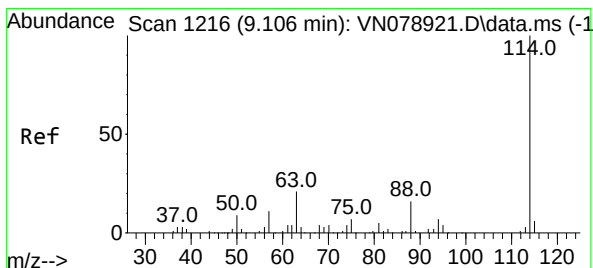
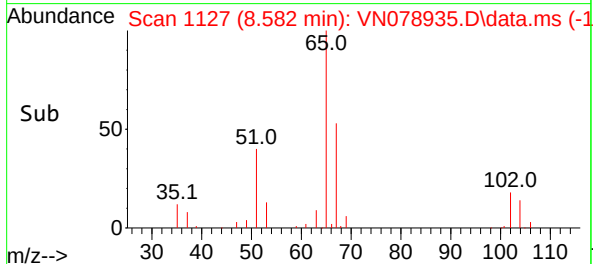
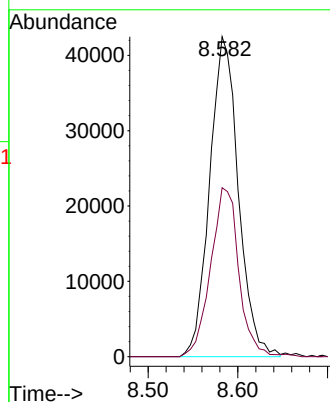
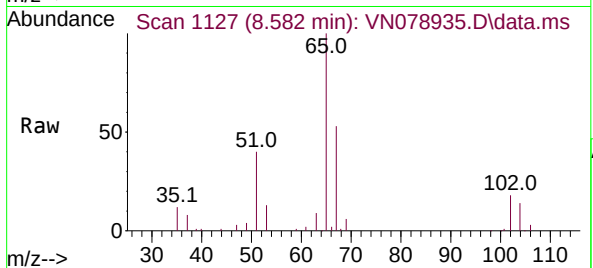
ClientSampleId :

Tgt Ion: 65 Resp: 94266

Ion Ratio Lower Upper

65 100

67 51.6 40.7 61.1



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.112 min Scan# 1217

Delta R.T. 0.006 min

Lab File: VN078935.D

Acq: 17 Aug 2023 19:06

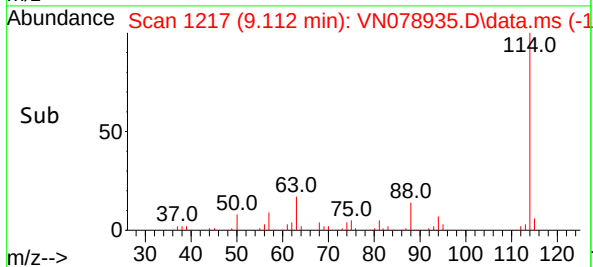
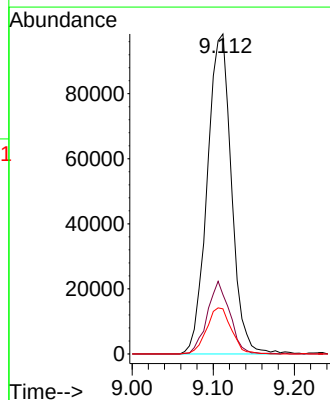
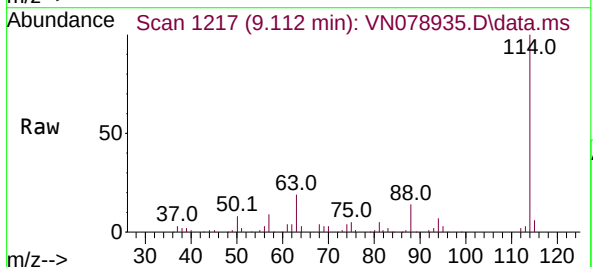
Tgt Ion: 114 Resp: 203683

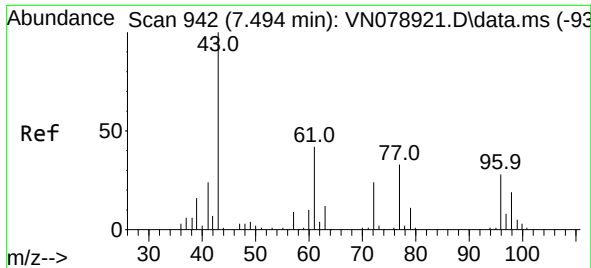
Ion Ratio Lower Upper

114 100

63 21.0 17.4 26.2

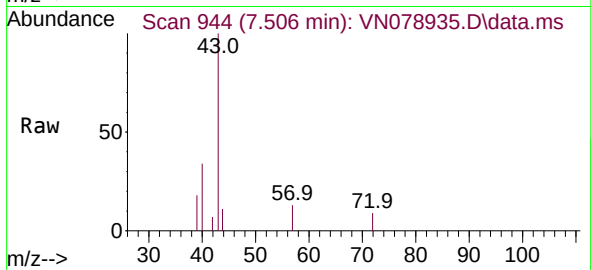
88 14.7 12.0 18.0



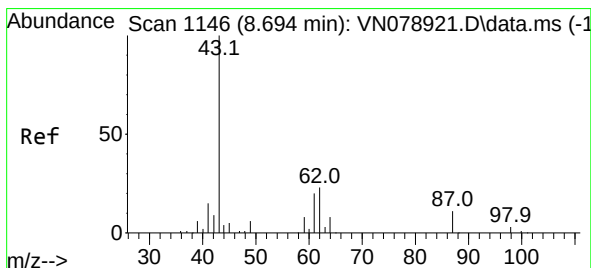
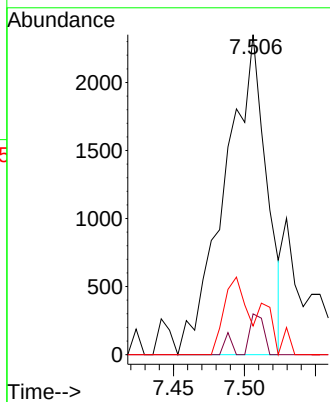
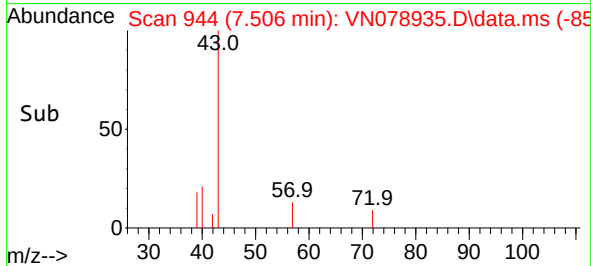


#30
2-Butanone
Concen: 2.634 ug/l
RT: 7.506 min Scan# 944
Delta R.T. 0.012 min
Lab File: VN078935.D
Acq: 17 Aug 2023 19:06

Instrument :
MSVOA_N
ClientSampleId :

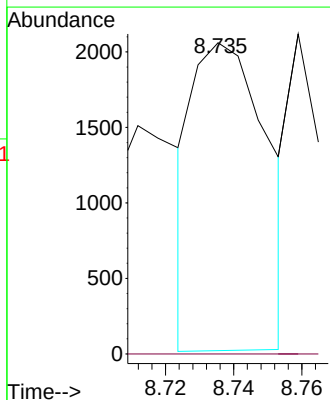
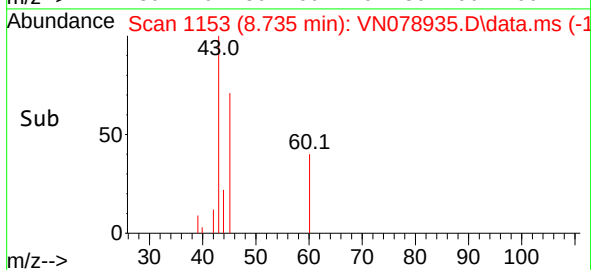
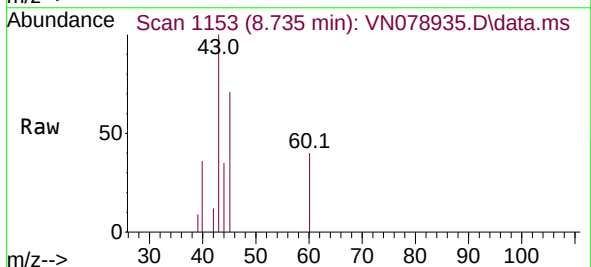


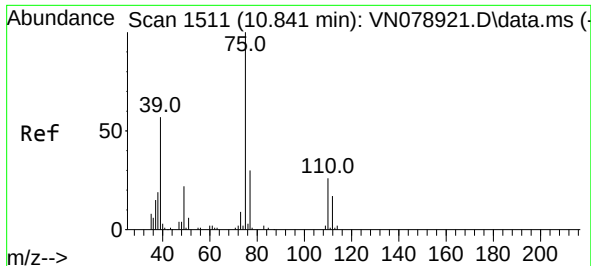
Tgt Ion: 43 Resp: 4777
Ion Ratio Lower Upper
43 100
57 4.2 6.2 9.4#
72 5.4 19.4 29.2#



#44
Isopropyl Acetate
Concen: 0.495 ug/l
RT: 8.735 min Scan# 1153
Delta R.T. 0.041 min
Lab File: VN078935.D
Acq: 17 Aug 2023 19:06

Tgt Ion: 43 Resp: 3067
Ion Ratio Lower Upper
43 100
61 0.0 19.0 28.4#

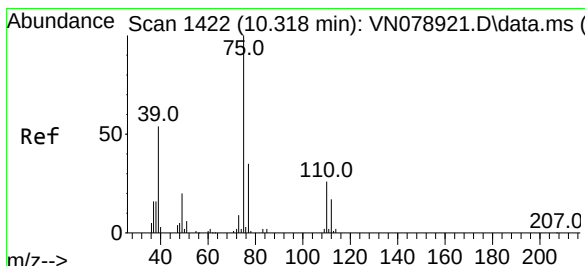
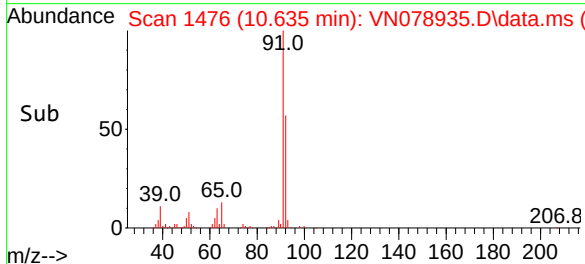
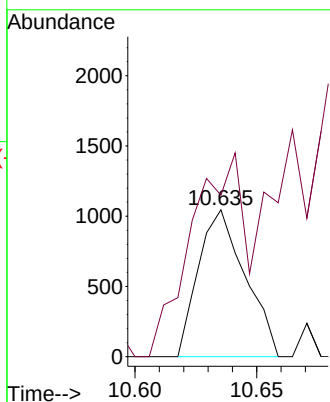
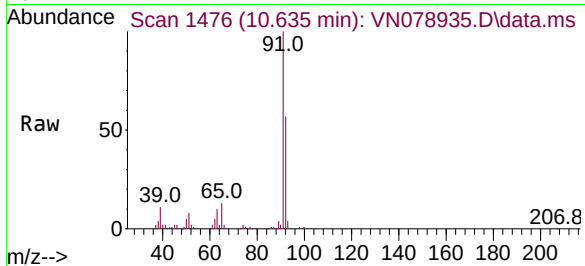




#48
t-1,3-Dichloropropene
Concen: 0.389 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. -0.206 min
Lab File: VN078935.D
Acq: 17 Aug 2023 19:06

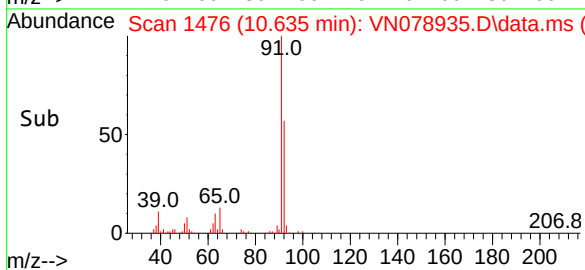
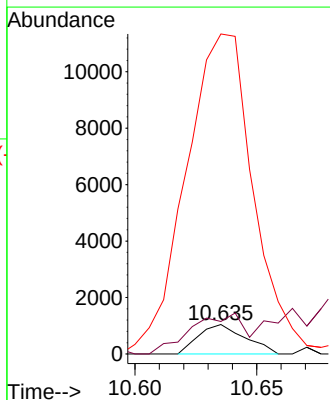
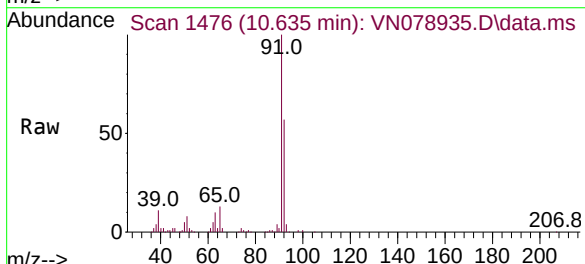
Instrument :
MSVOA_N
ClientSampleId :

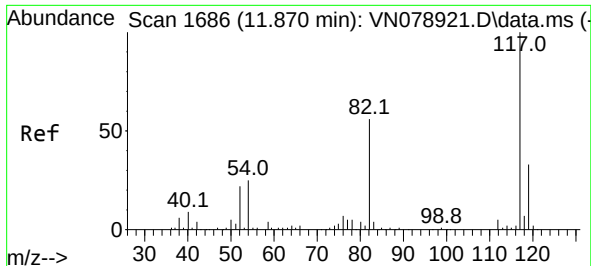
Tgt Ion: 75 Resp: 1397
Ion Ratio Lower Upper
75 100
77 69.6 23.7 35.5#



#49
cis-1,3-Dichloropropene
Concen: 0.363 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. 0.318 min
Lab File: VN078935.D
Acq: 17 Aug 2023 19:06

Tgt Ion: 75 Resp: 1397
Ion Ratio Lower Upper
75 100
77 69.6 27.8 41.8#
39 906.5 43.5 65.3#





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.870 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN078935.D

Acq: 17 Aug 2023 19:06

Instrument :

MSVOA_N

ClientSampleId :

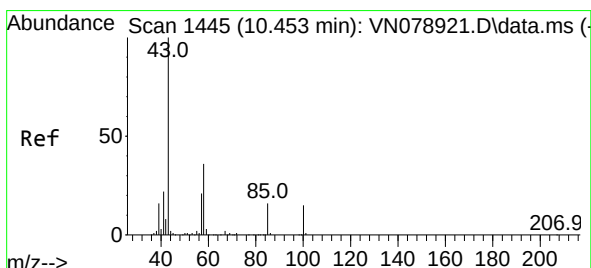
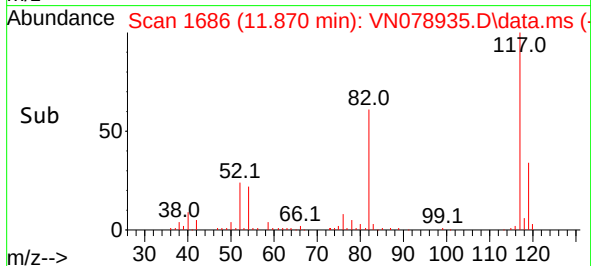
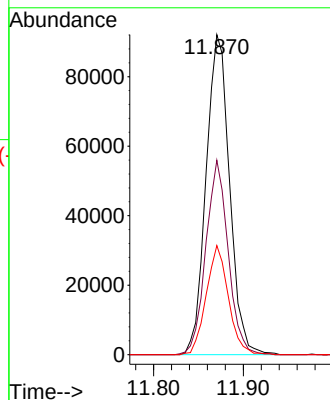
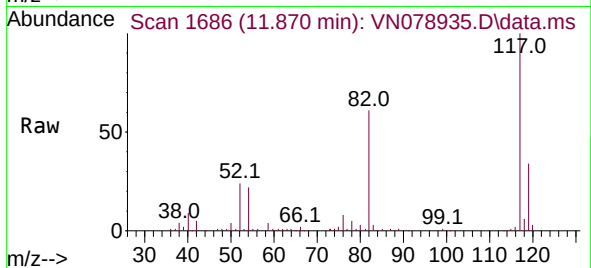
Tgt Ion:117 Resp: 167682

Ion Ratio Lower Upper

117 100

82 57.8 43.4 65.0

119 32.2 25.5 38.3



#58

4-Methyl-2-Pentanone

Concen: 0.366 ug/l

RT: 10.453 min Scan# 1445

Delta R.T. 0.000 min

Lab File: VN078935.D

Acq: 17 Aug 2023 19:06

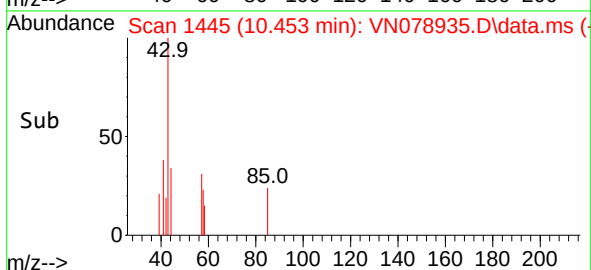
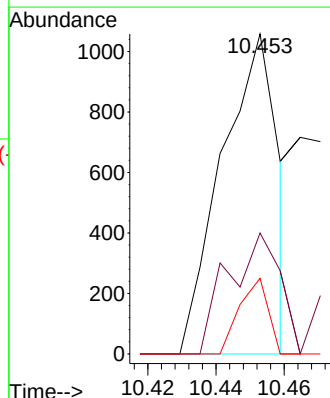
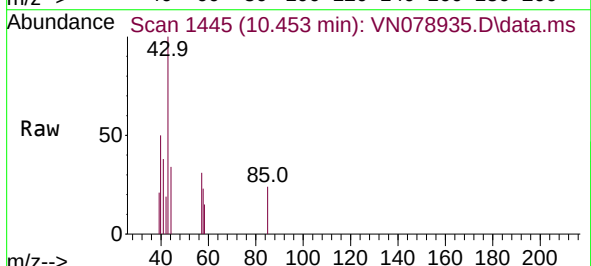
Tgt Ion: 43 Resp: 1216

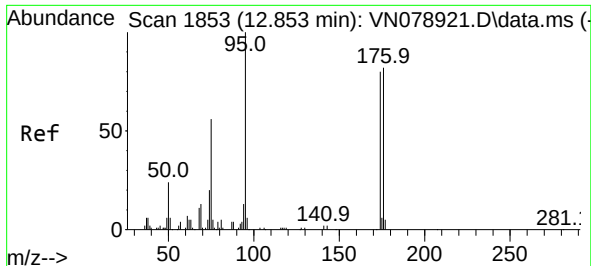
Ion Ratio Lower Upper

43 100

58 34.7 28.8 43.2

85 12.0 12.7 19.1#

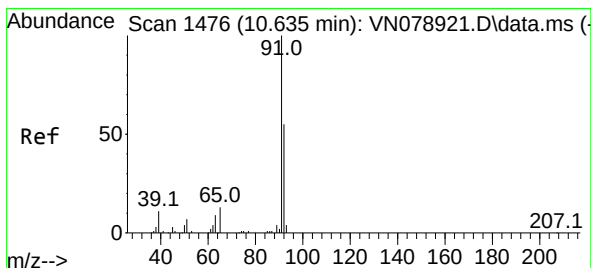
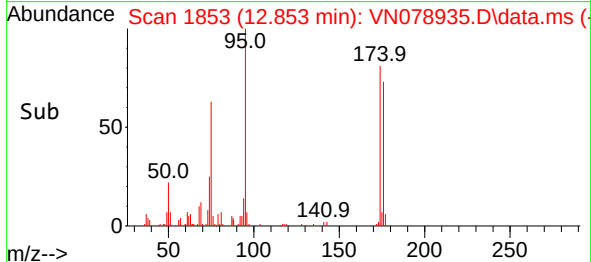
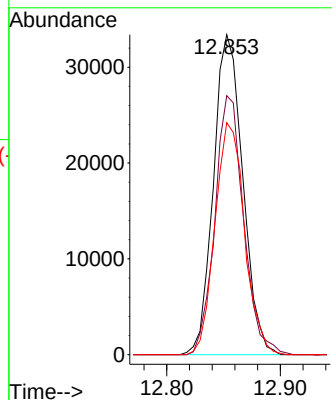
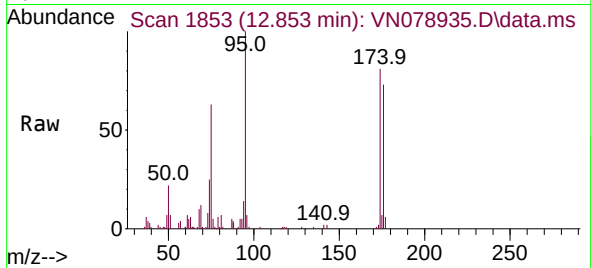




#60
4-Bromofluorobenzene
Concen: 24.456 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VN078935.D
Acq: 17 Aug 2023 19:06

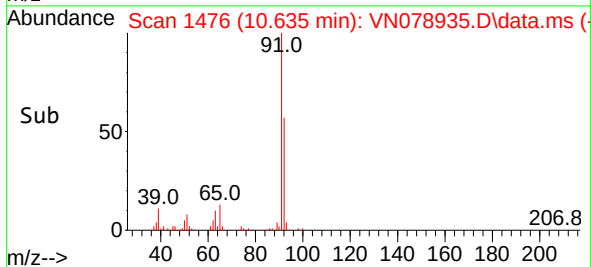
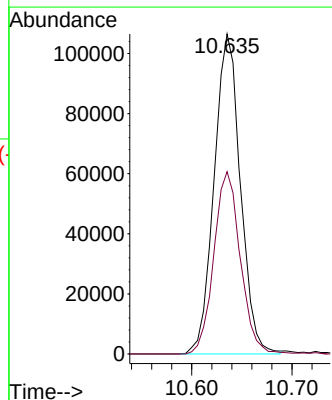
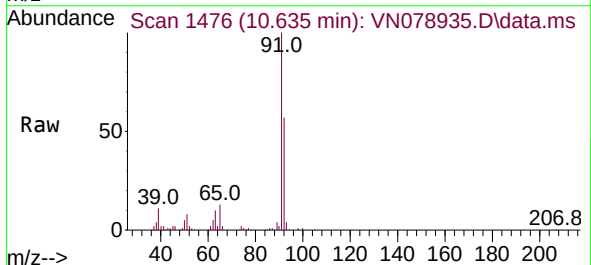
Instrument :
MSVOA_N
ClientSampleId :

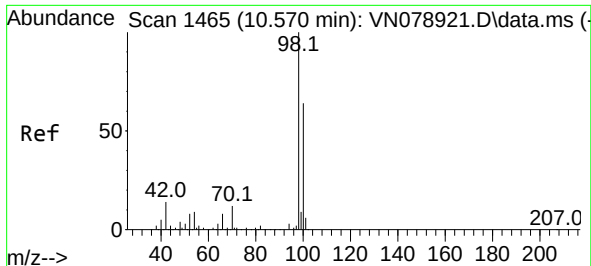
Tgt Ion: 95 Resp: 59819
Ion Ratio Lower Upper
95 100
174 79.3 64.8 97.2
176 73.2 63.0 94.6



#62
Toluene
Concen: 21.158 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. 0.000 min
Lab File: VN078935.D
Acq: 17 Aug 2023 19:06

Tgt Ion: 91 Resp: 193695
Ion Ratio Lower Upper
91 100
92 57.4 44.7 67.1

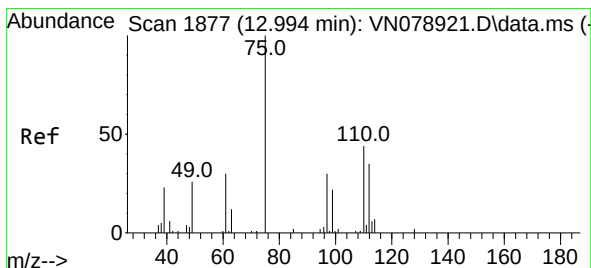
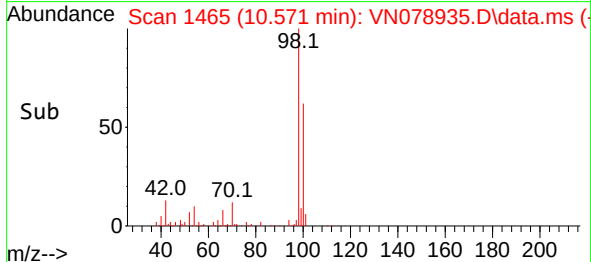
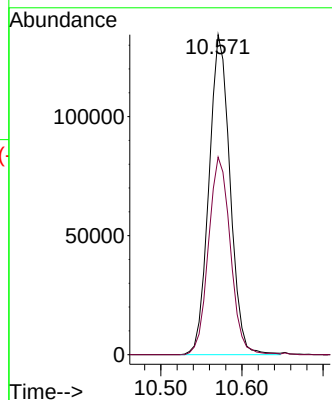
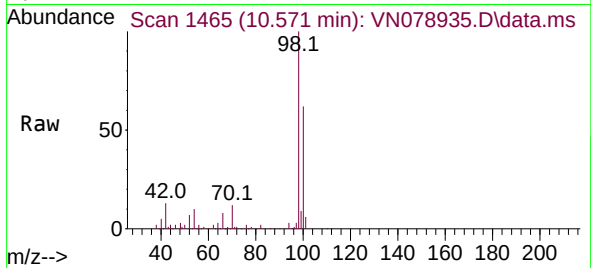




#63
Toluene-d8
Concen: 30.952 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VN078935.D
Acq: 17 Aug 2023 19:06

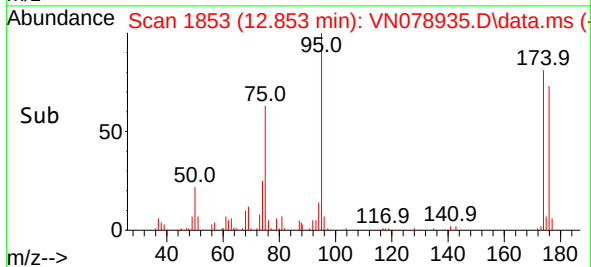
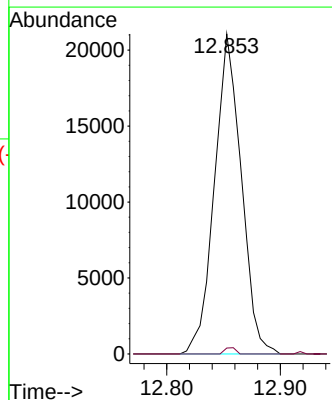
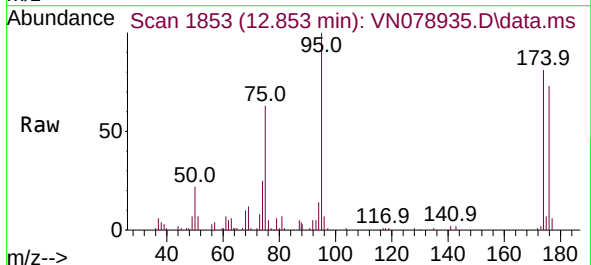
Instrument :
MSVOA_N
ClientSampleId :

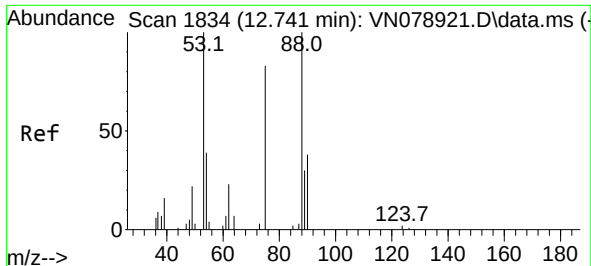
Tgt Ion: 98 Resp: 242373
Ion Ratio Lower Upper
98 100
100 63.9 51.1 76.7



#72
1,2,3-Trichloropropane
Concen: 13.163 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.141 min
Lab File: VN078935.D
Acq: 17 Aug 2023 19:06

Tgt Ion: 75 Resp: 34530
Ion Ratio Lower Upper
75 100
77 0.8 0.0 367.4





#77

t-1,4-Dichloro-2-butene

Concen: 35.421 ug/l

RT: 12.853 min Scan# 11

Delta R.T. 0.112 min

Lab File: VN078935.D

Acq: 17 Aug 2023 19:06

Instrument :

MSVOA_N

ClientSampleId :

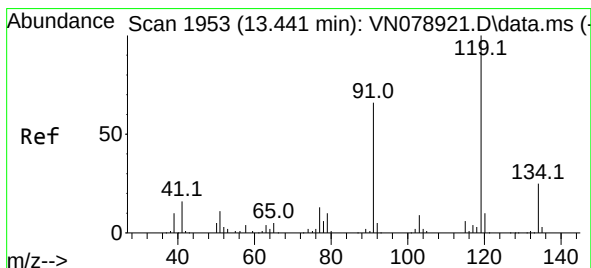
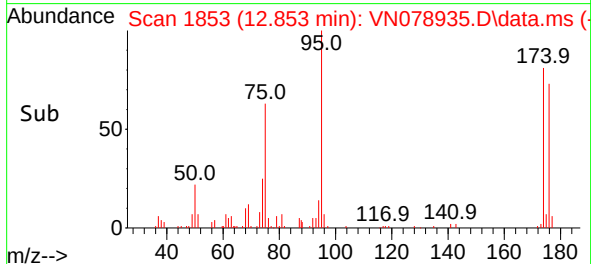
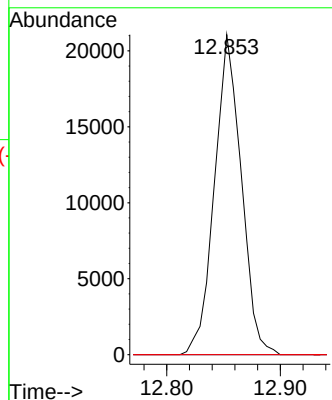
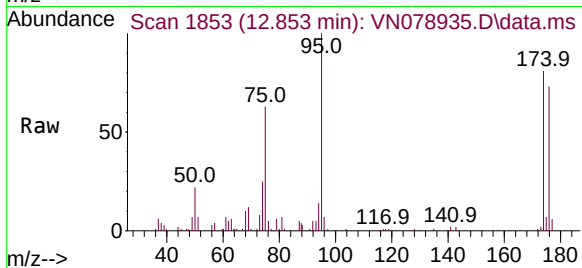
Tgt Ion: 75 Resp: 34530

Ion Ratio Lower Upper

75 100

53 0.0 60.1 180.3#

89 0.0 22.9 68.8#



#79

tert-butylbenzene

Concen: 0.269 ug/l

RT: 13.735 min Scan# 2003

Delta R.T. 0.294 min

Lab File: VN078935.D

Acq: 17 Aug 2023 19:06

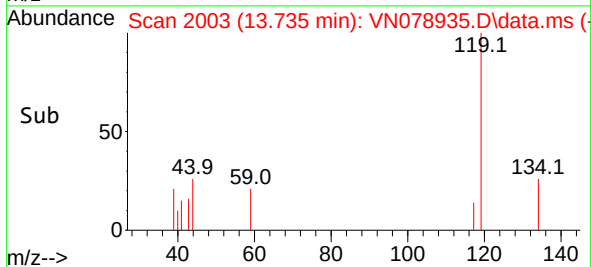
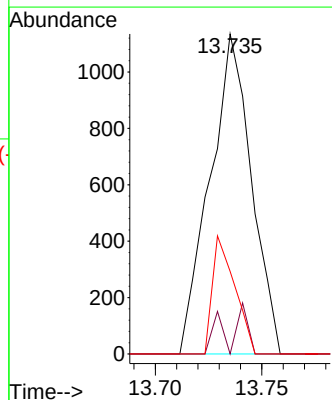
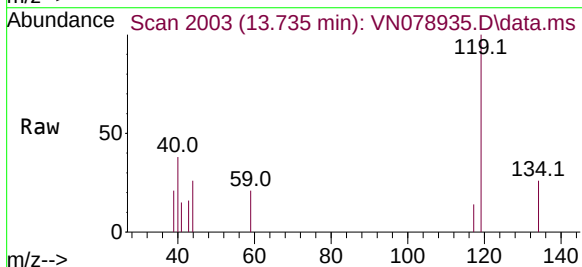
Tgt Ion: 119 Resp: 1537

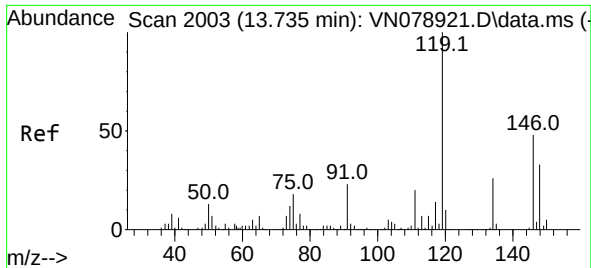
Ion Ratio Lower Upper

119 100

91 4.2 0.0 135.6

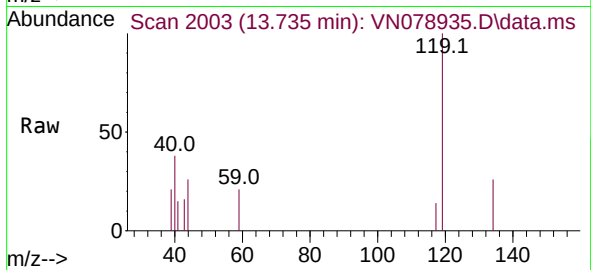
134 0.0 0.0 51.4





#82
 p-Isopropyltoluene
 Concen: 0.250 ug/l
 RT: 13.735 min Scan# 20
 Delta R.T. 0.000 min
 Lab File: VN078935.D
 Acq: 17 Aug 2023 19:06

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:	119	Resp:	1537
Ion	Ratio	Lower	Upper
119	100		
134	0.0	0.0	52.4
91	4.2	0.0	47.4

