

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062323\
 Data File : VN078376.D
 Acq On : 23 Jun 2023 14:18
 Operator : JC\MD
 Sample : VN0623WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0623WBL01

Quant Time: Jun 24 01:19:50 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N062323W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Jun 24 00:59:50 2023
 Response via : Initial Calibration

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

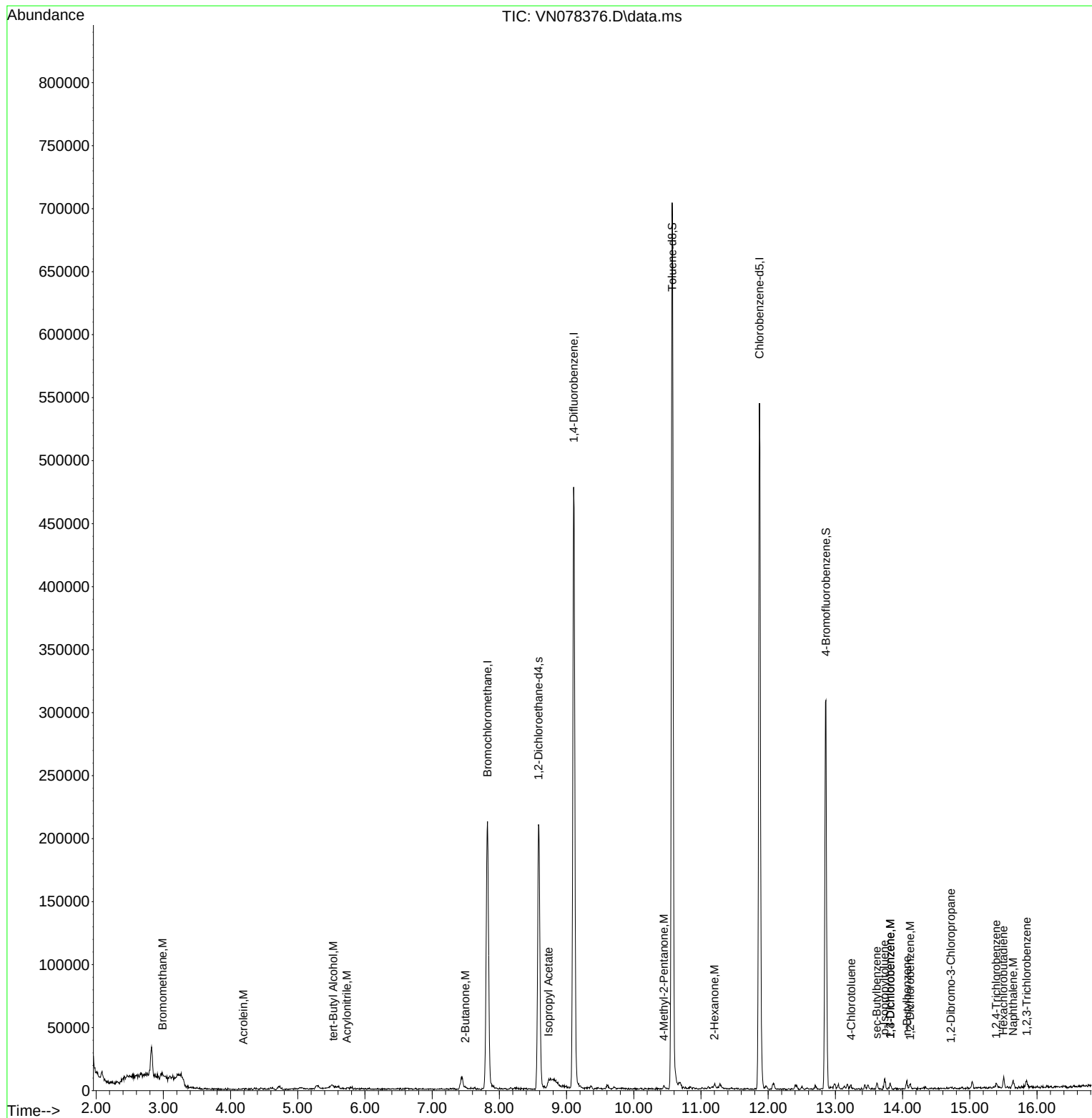
Internal Standards						
1) Bromochloromethane	7.824	128	77664	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	427572	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	351758	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	175021	29.926	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	99.767%
60) 4-Bromofluorobenzene	12.859	95	112443	22.689	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	75.633%
63) Toluene-d8	10.571	98	519511	30.481	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	101.600%
Target Compounds						
					Qvalue	
5) Bromomethane	2.989	94	2889	0.509	ug/l #	73
13) Acrolein	4.189	56	404	0.475	ug/l #	29
14) Acrylonitrile	5.730	53	754	0.410	ug/l #	39
23) tert-Butyl Alcohol	5.530	59	263	0.383	ug/l #	100
30) 2-Butanone	7.494	43	497	0.214	ug/l #	89
44) Isopropyl Acetate	8.730	43	4333	0.490	ug/l #	52
58) 4-Methyl-2-Pentanone	10.447	43	1825	0.389	ug/l #	46
59) 2-Hexanone	11.200	43	1900	0.586	ug/l #	80
78) 4-Chlorotoluene	13.235	91	2675	0.207	ug/l	64
81) sec-Butylbenzene	13.617	105	4017	0.252	ug/l	93
82) p-Isopropyltoluene	13.729	119	2961	0.231	ug/l	90
83) 1,3-Dichlorobenzene	13.817	146	1703	0.239	ug/l	81
84) 1,4-Dichlorobenzene	13.817	146	1703	0.248	ug/l	78
85) n-Butylbenzene	14.064	91	3922	0.413	ug/l	89
87) 1,2-Dichlorobenzene	14.112	146	1775	0.252	ug/l	77
88) 1,2-Dibromo-3-Chloropr...	14.717	75	204	0.222	ug/l #	34
89) 1,2,4-Trichlorobenzene	15.394	180	816	0.380	ug/l #	10
90) Hexachlorobutadiene	15.500	225	1503	1.028	ug/l	77
91) Naphthalene	15.647	128	5754	0.817	ug/l #	75
92) 1,2,3-Trichlorobenzene	15.847	180	2544	1.023	ug/l	73

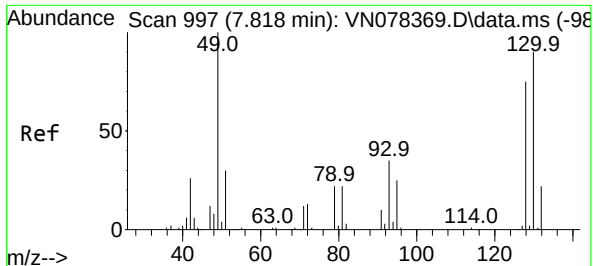
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jun 24 01:19:50 2023
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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Jun 24 00:59:50 2023
Response via : Initial Calibration

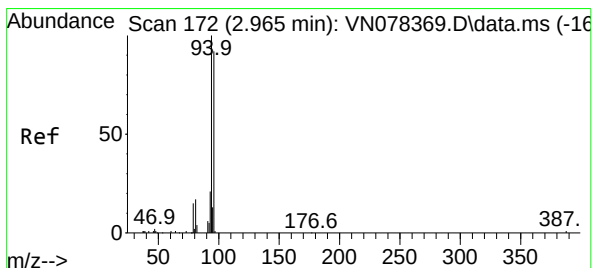
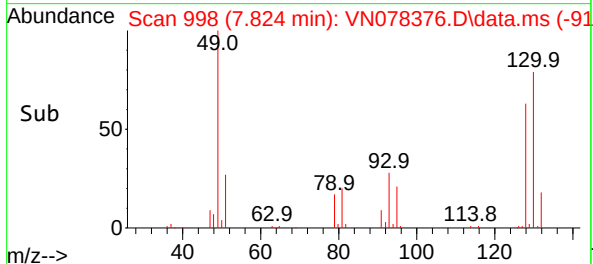
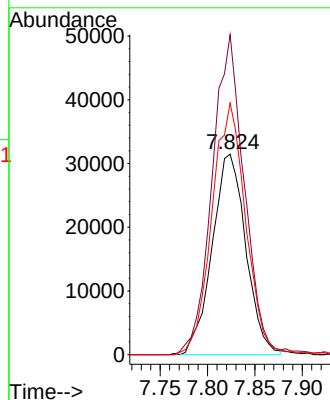
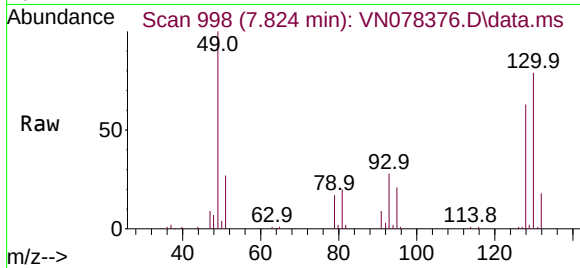




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.824 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN078376.D
Acq: 23 Jun 2023 14:18

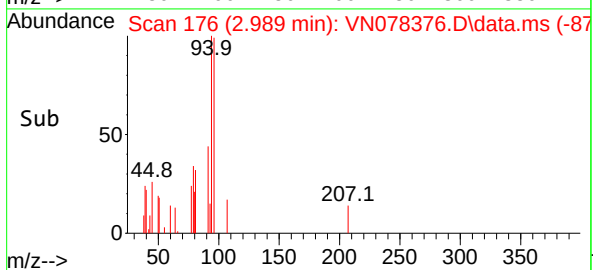
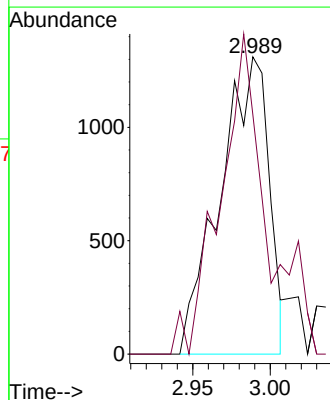
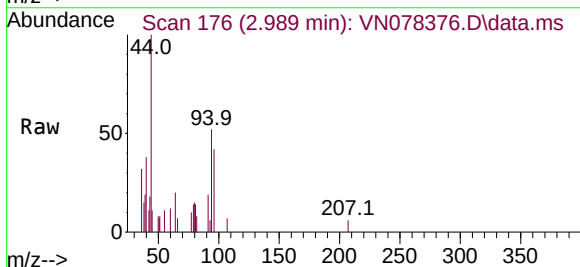
Instrument :
MSVOA_N
ClientSampleId :
VN0623WBL01

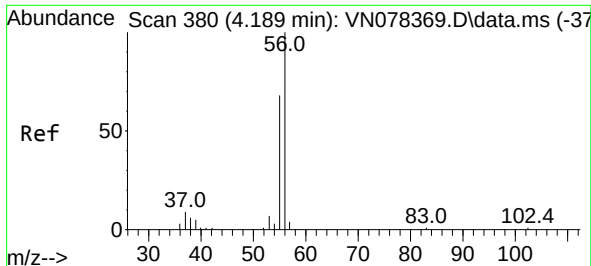
Tgt Ion:128 Resp: 77664
Ion Ratio Lower Upper
128 100
49 151.7 0.0 370.8
130 125.7 0.0 307.0



#5
Bromomethane
Concen: 0.509 ug/l
RT: 2.989 min Scan# 176
Delta R.T. 0.024 min
Lab File: VN078376.D
Acq: 23 Jun 2023 14:18

Tgt Ion: 94 Resp: 2889
Ion Ratio Lower Upper
94 100
96 66.2 73.9 110.9#

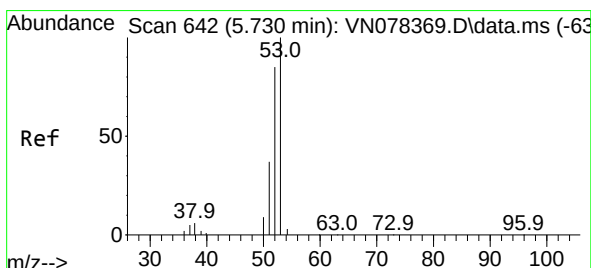
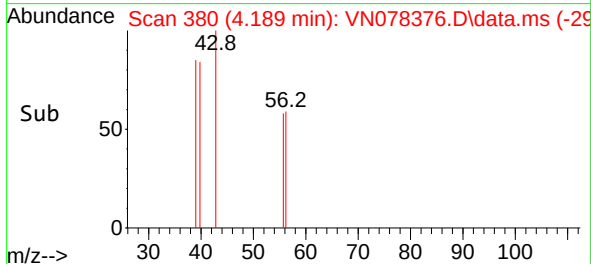
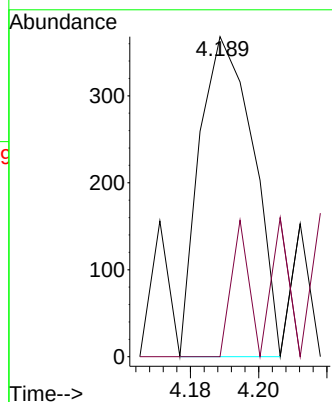
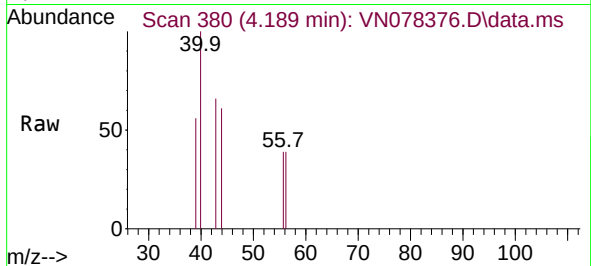




#13
Acrolein
Concen: 0.475 ug/l
RT: 4.189 min Scan# 380
Delta R.T. 0.000 min
Lab File: VN078376.D
Acq: 23 Jun 2023 14:18

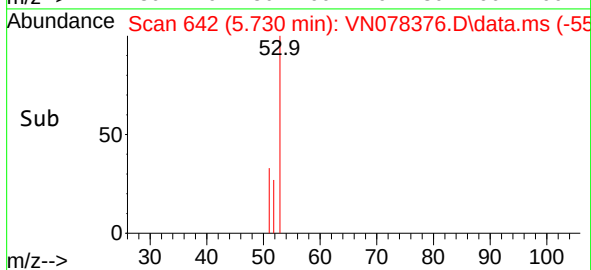
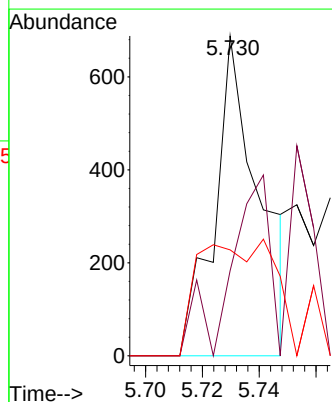
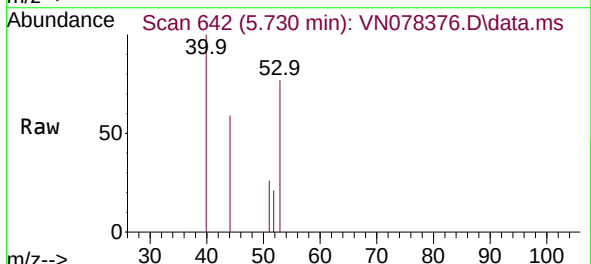
Instrument :
MSVOA_N
ClientSampleId :
VN0623WBL01

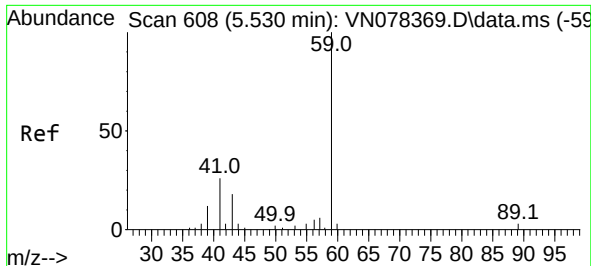
Tgt Ion: 56 Resp: 404
Ion Ratio Lower Upper
56 100
55 13.6 59.0 88.4#



#14
Acrylonitrile
Concen: 0.410 ug/l
RT: 5.730 min Scan# 642
Delta R.T. 0.000 min
Lab File: VN078376.D
Acq: 23 Jun 2023 14:18

Tgt Ion: 53 Resp: 754
Ion Ratio Lower Upper
53 100
52 7.7 42.3 126.9#
51 41.5 18.4 55.4

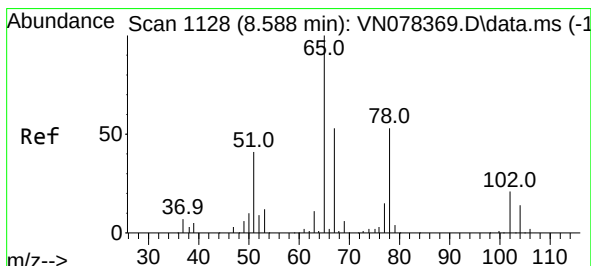
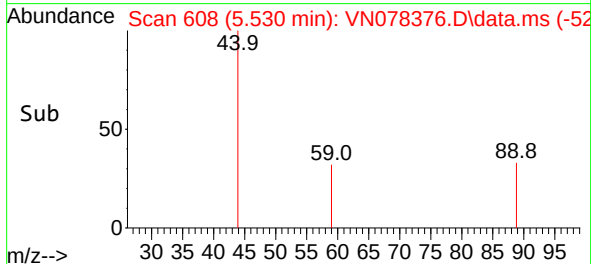
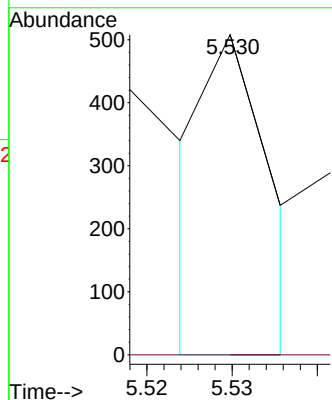
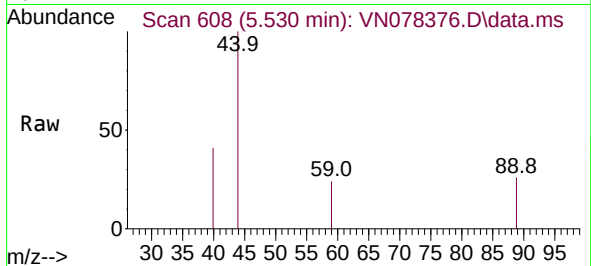




#23
tert-Butyl Alcohol
Concen: 0.383 ug/l
RT: 5.530 min Scan# 608
Delta R.T. 0.000 min
Lab File: VN078376.D
Acq: 23 Jun 2023 14:18

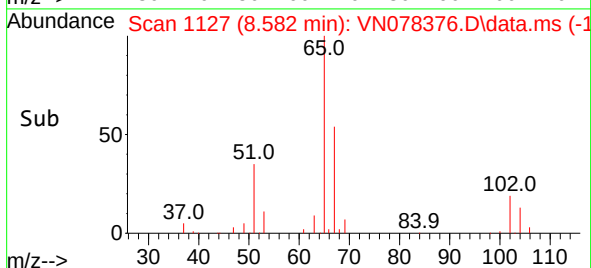
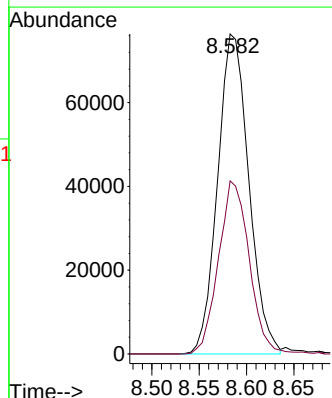
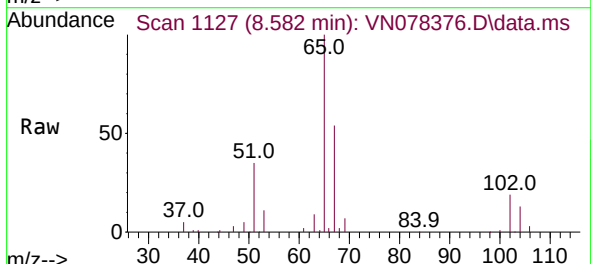
Instrument :
MSVOA_N
ClientSampleId :
VN0623WBL01

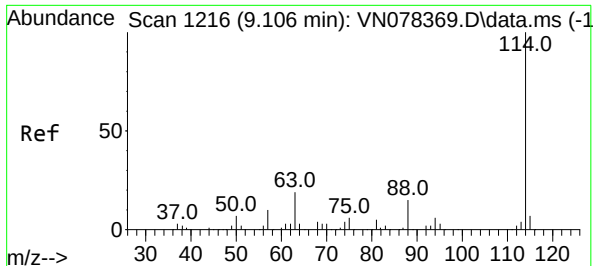
Tgt Ion: 59 Resp: 263
Ion Ratio Lower Upper
59 100
52 0.0 0.1 0.1#



#27
1,2-Dichloroethane-d4
Concen: 29.926 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. -0.006 min
Lab File: VN078376.D
Acq: 23 Jun 2023 14:18

Tgt Ion: 65 Resp: 175021
Ion Ratio Lower Upper
65 100
67 53.3 42.9 64.3

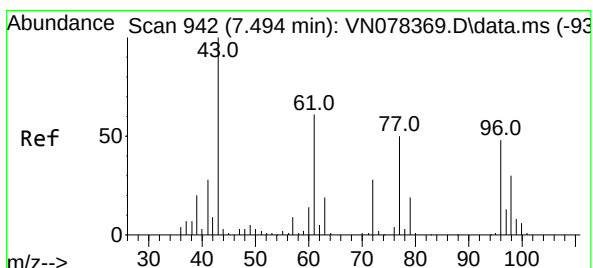
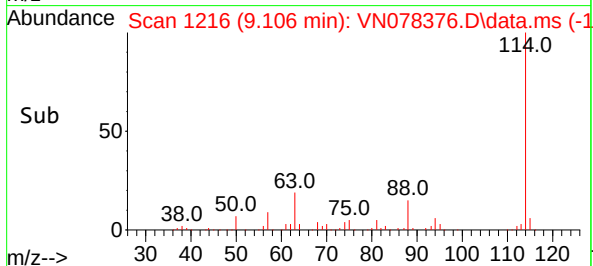
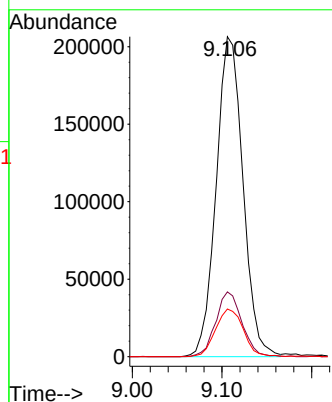
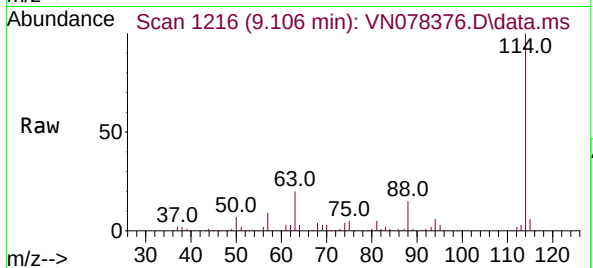




#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 9.106 min Scan# 114
 Delta R.T. 0.000 min
 Lab File: VN078376.D
 Acq: 23 Jun 2023 14:18

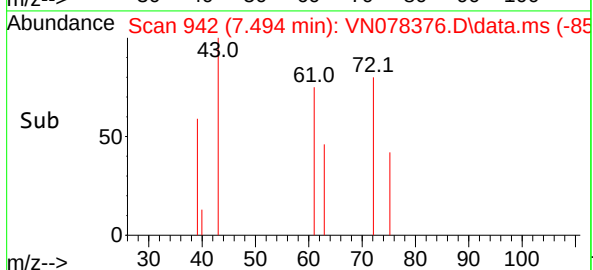
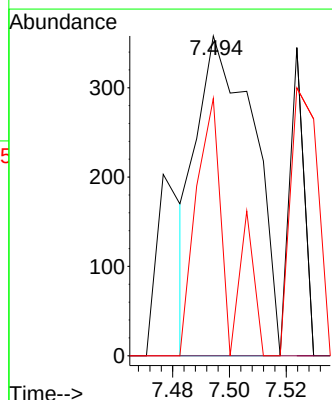
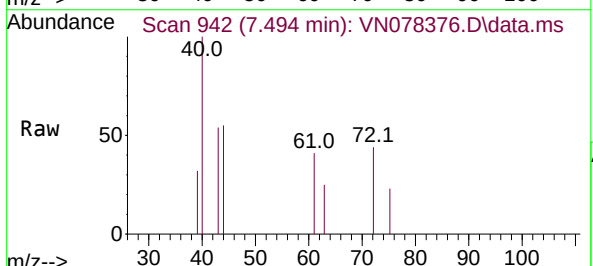
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0623WBL01

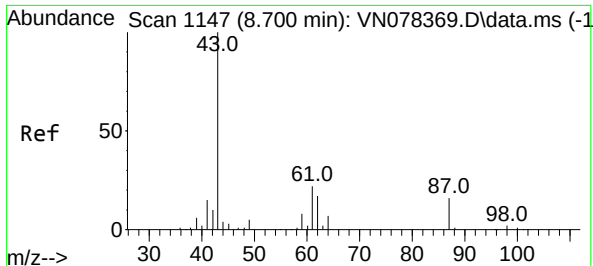
Tgt Ion:114 Resp: 427572
 Ion Ratio Lower Upper
 114 100
 63 19.8 15.2 22.8
 88 15.5 12.5 18.7



#30
 2-Butanone
 Concen: 0.214 ug/l
 RT: 7.494 min Scan# 942
 Delta R.T. 0.000 min
 Lab File: VN078376.D
 Acq: 23 Jun 2023 14:18

Tgt Ion: 43 Resp: 497
 Ion Ratio Lower Upper
 43 100
 57 0.0 6.8 10.2#
 72 34.0 23.8 35.6

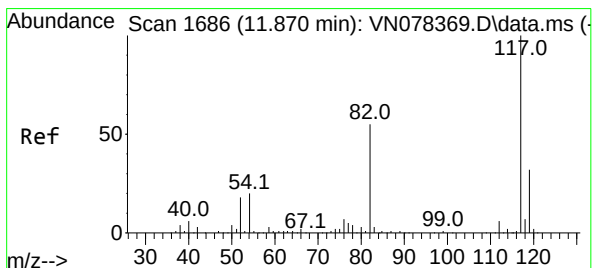
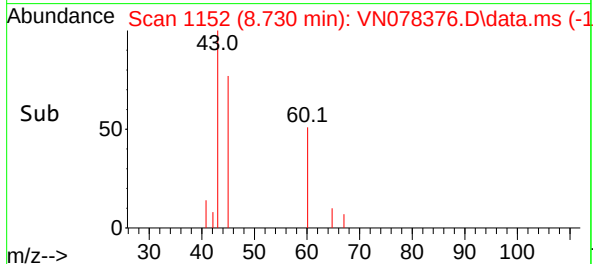
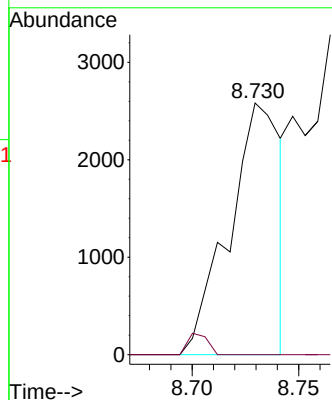
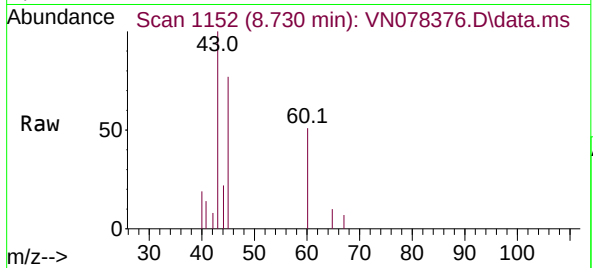




#44
Isopropyl Acetate
Concen: 0.490 ug/l
RT: 8.730 min Scan# 1147
Delta R.T. 0.030 min
Lab File: VN078376.D
Acq: 23 Jun 2023 14:18

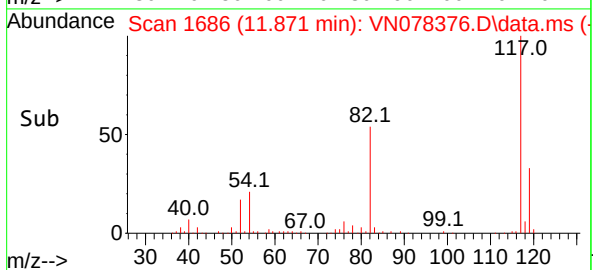
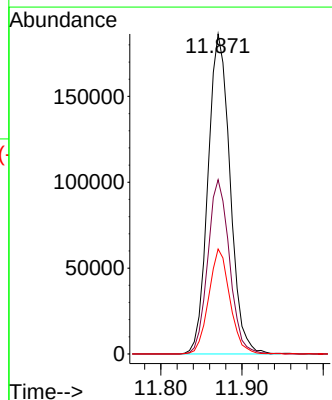
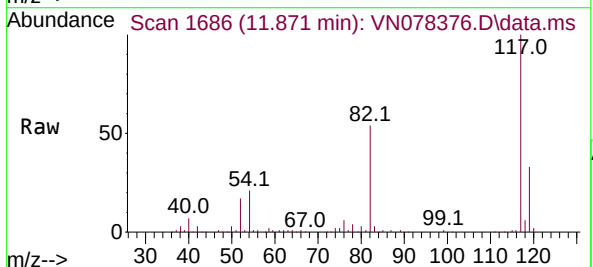
Instrument :
MSVOA_N
ClientSampleId :
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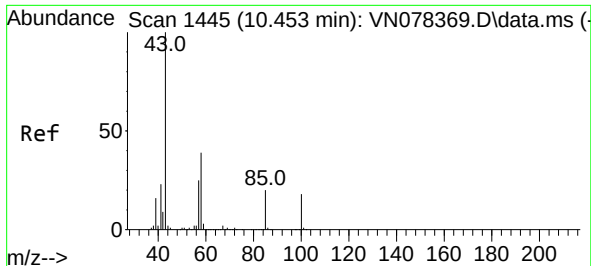
Tgt Ion: 43 Resp: 4333
Ion Ratio Lower Upper
43 100
61 3.3 23.0 34.6#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VN078376.D
Acq: 23 Jun 2023 14:18

Tgt Ion: 117 Resp: 351758
Ion Ratio Lower Upper
117 100
82 53.5 43.9 65.9
119 31.5 26.2 39.4

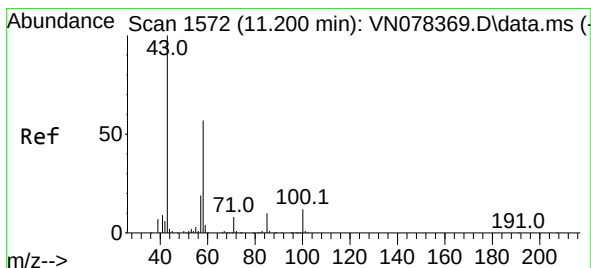
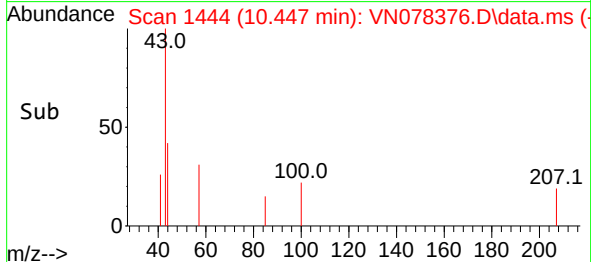
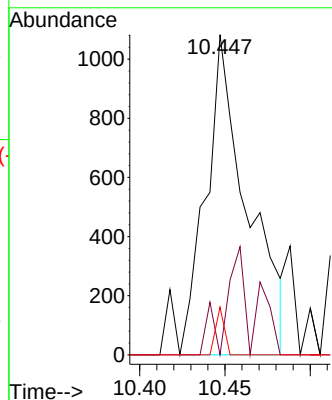
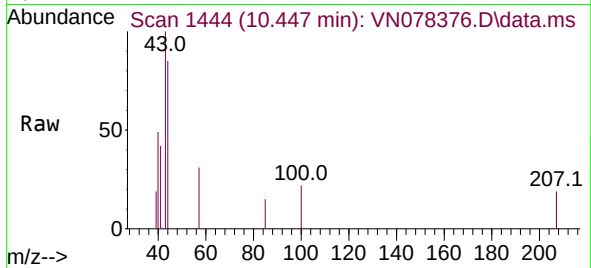




#58
4-Methyl-2-Pentanone
Concen: 0.389 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. -0.006 min
Lab File: VN078376.D
Acq: 23 Jun 2023 14:18

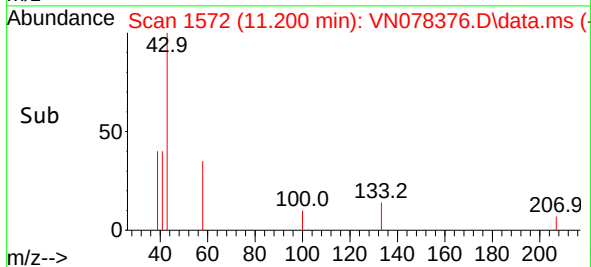
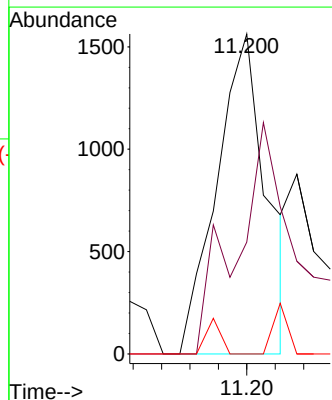
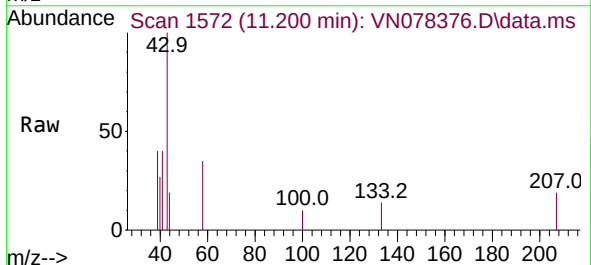
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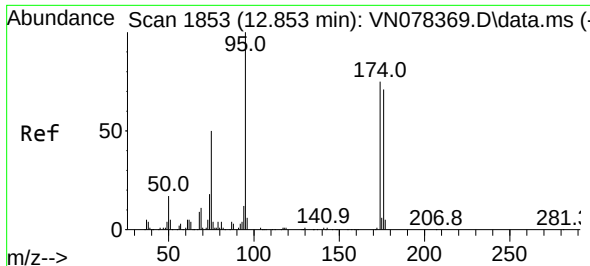
Tgt Ion:	43	Resp:	1825
Ion	Ratio	Lower	Upper
43	100		
58	3.5	32.6	48.8#
85	0.0	16.2	24.2#



#59
2-Hexanone
Concen: 0.586 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.000 min
Lab File: VN078376.D
Acq: 23 Jun 2023 14:18

Tgt Ion:	43	Resp:	1900
Ion	Ratio	Lower	Upper
43	100		
58	66.6	45.9	68.9
57	0.0	15.8	23.6#

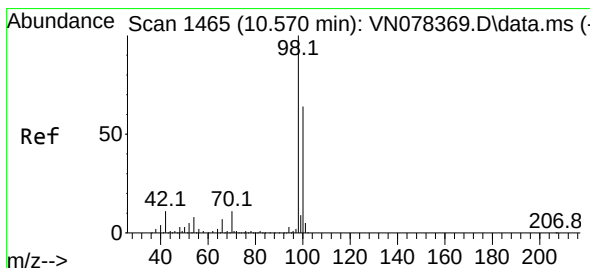
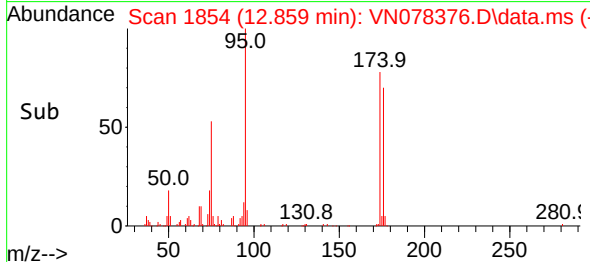
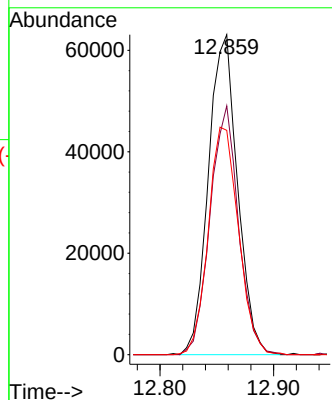
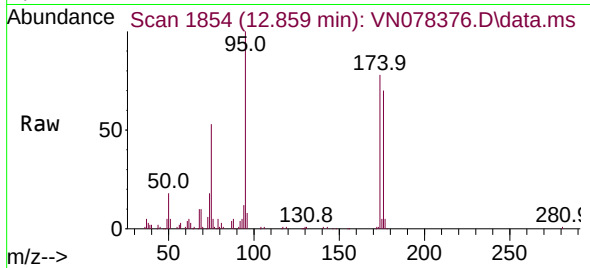




#60
4-Bromofluorobenzene
Concen: 22.689 ug/l
RT: 12.859 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN078376.D
Acq: 23 Jun 2023 14:18

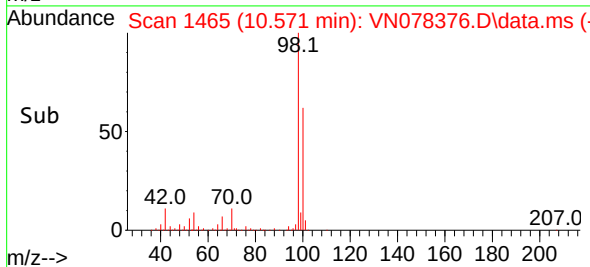
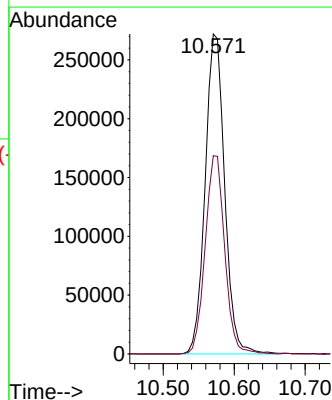
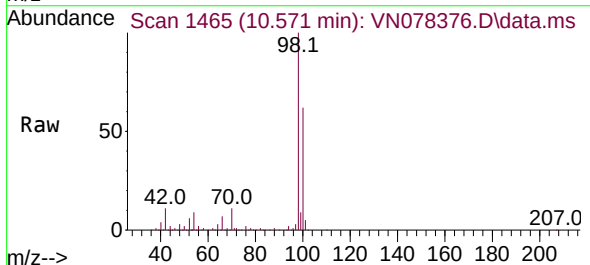
Instrument :
MSVOA_N
ClientSampleId :
VN0623WBL01

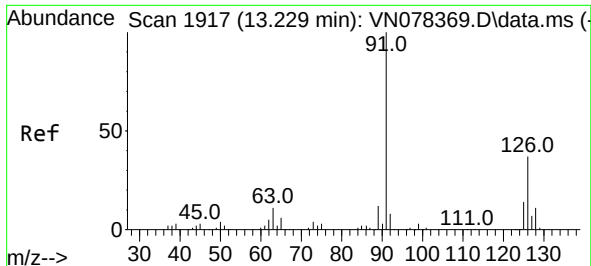
Tgt Ion: 95 Resp: 112443
Ion Ratio Lower Upper
95 100
174 75.8 61.7 92.5
176 73.8 58.1 87.1



#63
Toluene-d8
Concen: 30.481 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VN078376.D
Acq: 23 Jun 2023 14:18

Tgt Ion: 98 Resp: 519511
Ion Ratio Lower Upper
98 100
100 62.1 49.7 74.5

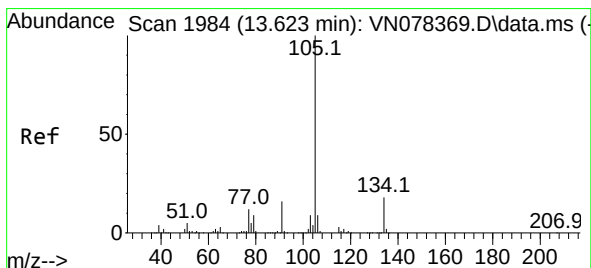
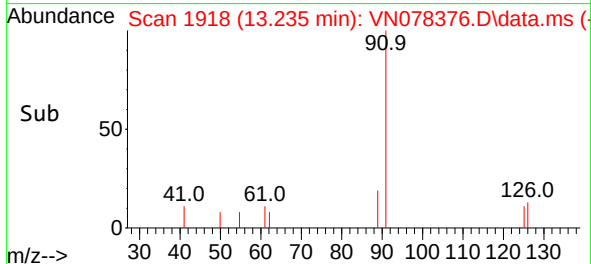
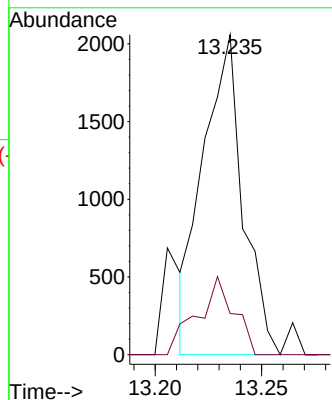
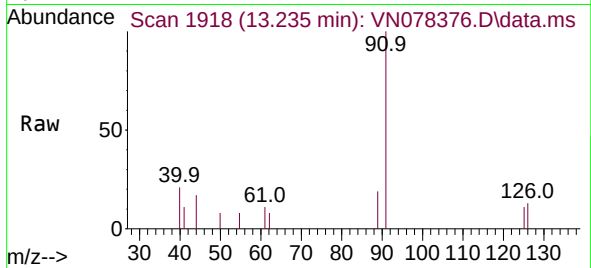




#78
4-Chlorotoluene
Concen: 0.207 ug/l
RT: 13.235 min Scan# 1917
Delta R.T. 0.006 min
Lab File: VN078376.D
Acq: 23 Jun 2023 14:18

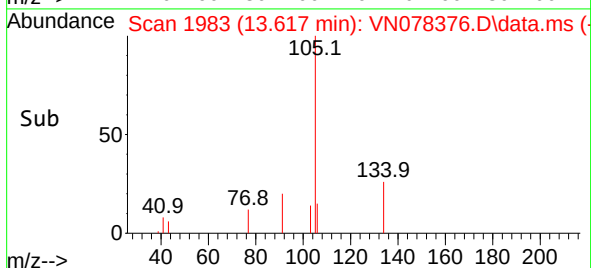
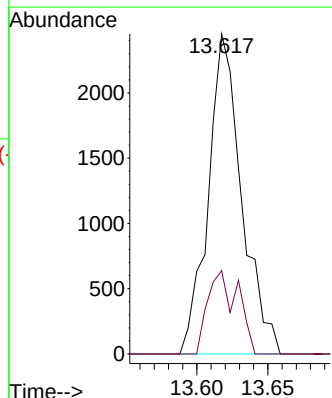
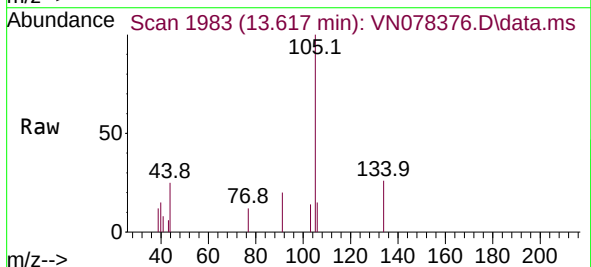
Instrument :
MSVOA_N
ClientSampleId :
VN0623WBL01

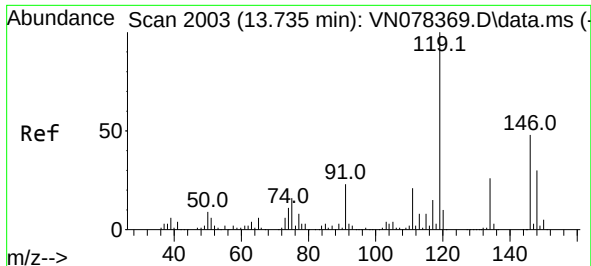
Tgt Ion: 91 Resp: 2675
Ion Ratio Lower Upper
91 100
126 13.5 0.0 68.8



#81
sec-Butylbenzene
Concen: 0.252 ug/l
RT: 13.617 min Scan# 1983
Delta R.T. -0.006 min
Lab File: VN078376.D
Acq: 23 Jun 2023 14:18

Tgt Ion: 105 Resp: 4017
Ion Ratio Lower Upper
105 100
134 16.3 0.0 38.6





#82

p-Isopropyltoluene

Concen: 0.231 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.006 min

Lab File: VN078376.D

Acq: 23 Jun 2023 14:18

Instrument :

MSVOA_N

ClientSampleId :

VN0623WBL01

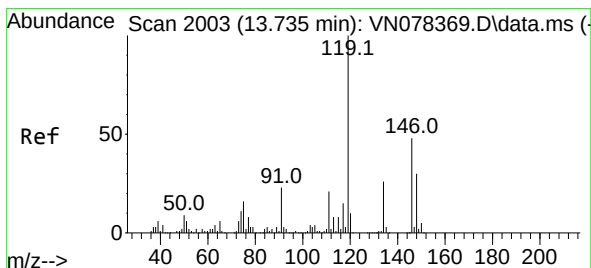
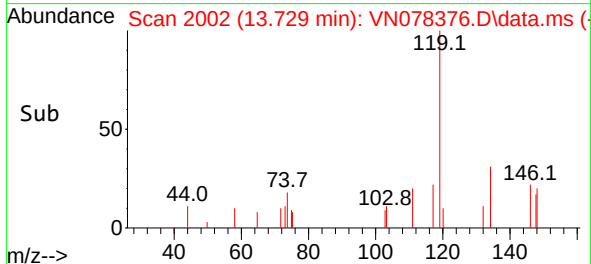
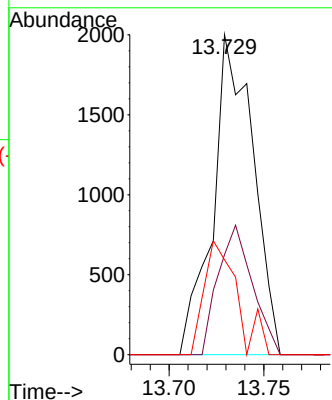
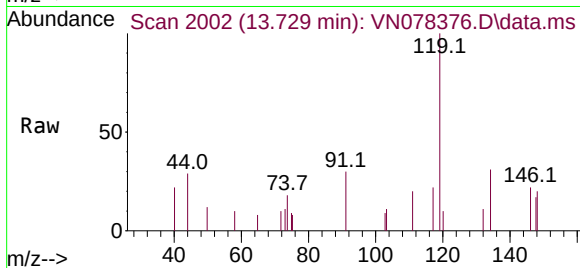
Tgt Ion:119 Resp: 2961

Ion Ratio Lower Upper

119 100

134 34.4 0.0 52.4

91 25.6 0.0 48.2



#83

1,3-Dichlorobenzene

Concen: 0.239 ug/l

RT: 13.817 min Scan# 2017

Delta R.T. 0.082 min

Lab File: VN078376.D

Acq: 23 Jun 2023 14:18

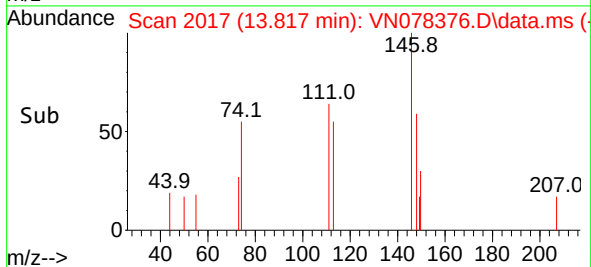
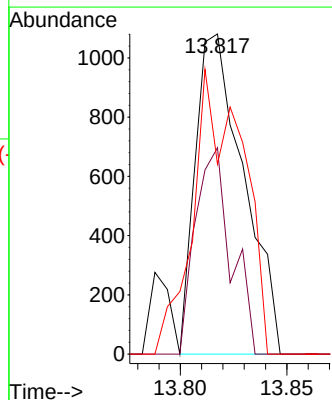
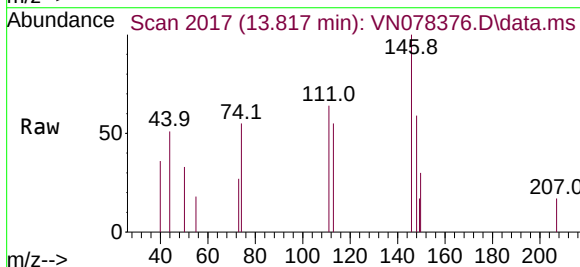
Tgt Ion:146 Resp: 1703

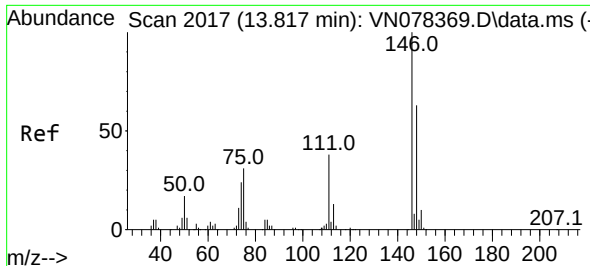
Ion Ratio Lower Upper

146 100

111 48.0 21.6 64.6

148 42.7 31.9 95.5

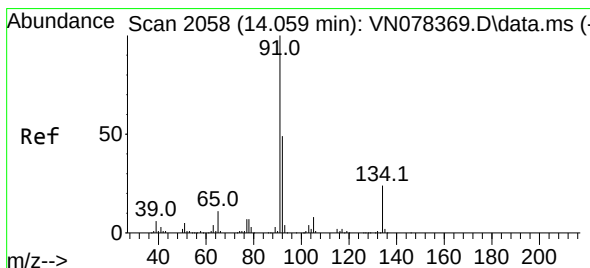
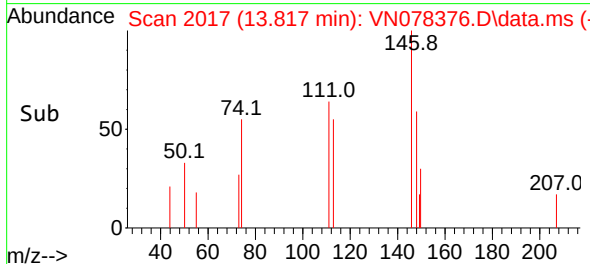
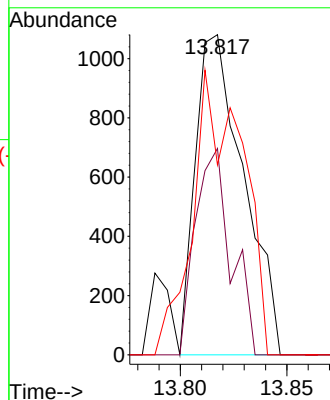
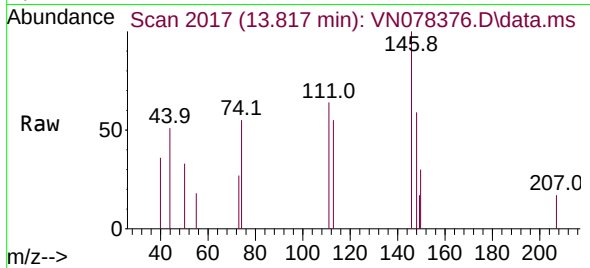




#84
1,4-Dichlorobenzene
Concen: 0.248 ug/l
RT: 13.817 min Scan# 2017
Delta R.T. 0.000 min
Lab File: VN078376.D
Acq: 23 Jun 2023 14:18

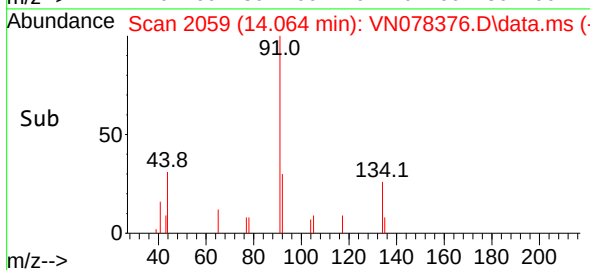
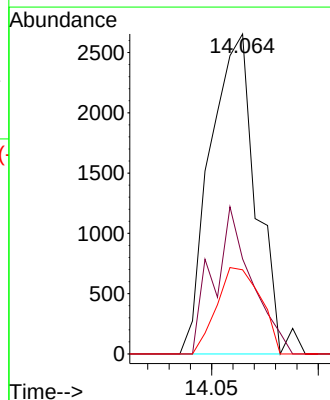
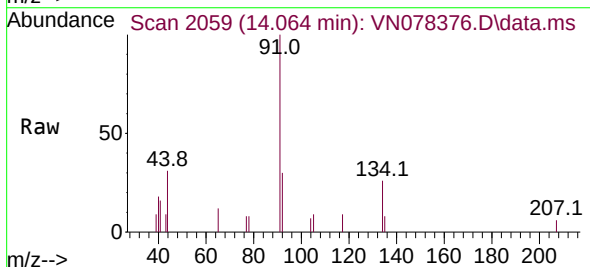
Instrument :
MSVOA_N
ClientSampleId :
VN0623WBL01

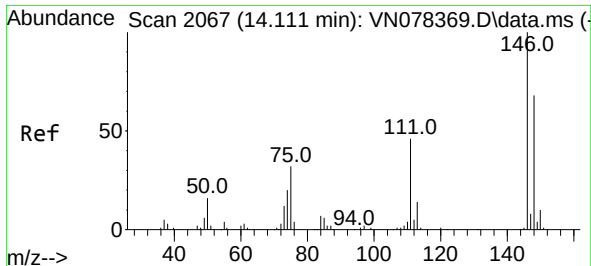
Tgt Ion:	146	Resp:	1703
Ion	Ratio	Lower	Upper
146	100		
111	48.0	19.4	58.2
148	42.7	31.4	94.3



#85
n-Butylbenzene
Concen: 0.413 ug/l
RT: 14.064 min Scan# 2059
Delta R.T. 0.006 min
Lab File: VN078376.D
Acq: 23 Jun 2023 14:18

Tgt Ion:	91	Resp:	3922
Ion	Ratio	Lower	Upper
91	100		
92	38.8	0.0	99.6
134	26.2	0.0	50.0





#87

1,2-Dichlorobenzene

Concen: 0.252 ug/l

RT: 14.112 min Scan# 2067

Delta R.T. 0.000 min

Lab File: VN078376.D

Acq: 23 Jun 2023 14:18

Instrument :

MSVOA_N

ClientSampleId :

VN0623WBL01

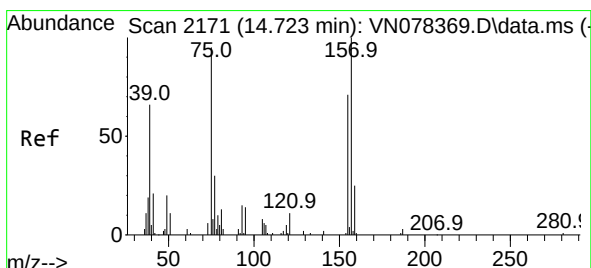
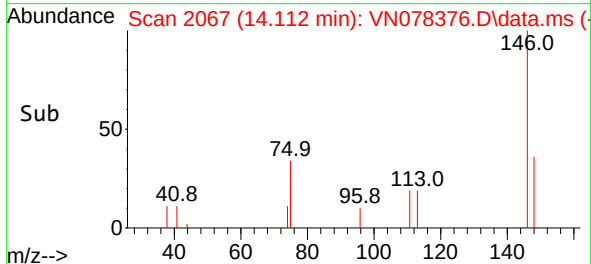
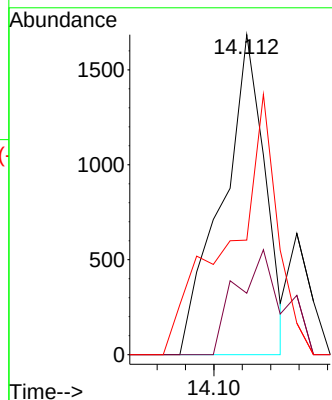
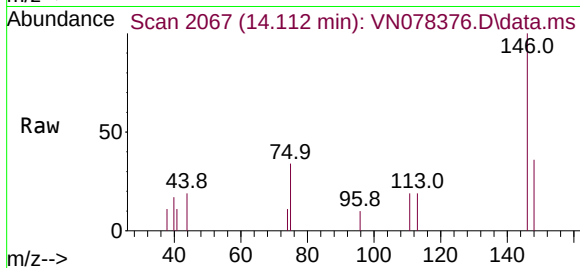
Tgt Ion:146 Resp: 1775

Ion Ratio Lower Upper

146 100

111 35.6 22.4 67.3

148 90.4 33.4 100.1



#88

1,2-Dibromo-3-Chloropropane

Concen: 0.222 ug/l

RT: 14.717 min Scan# 2170

Delta R.T. -0.006 min

Lab File: VN078376.D

Acq: 23 Jun 2023 14:18

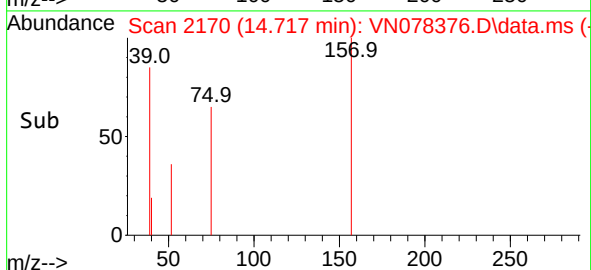
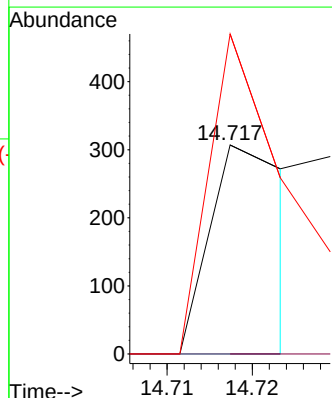
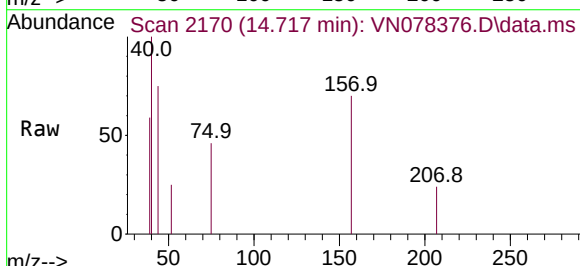
Tgt Ion: 75 Resp: 204

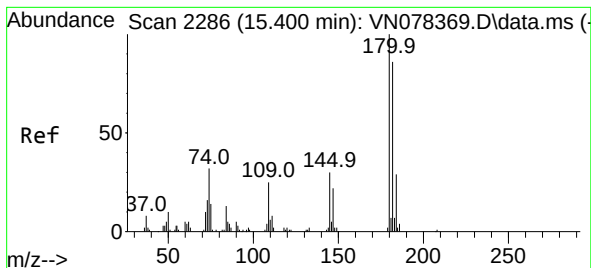
Ion Ratio Lower Upper

75 100

155 0.0 68.2 102.2#

157 152.0 84.7 127.1#





#89

1,2,4-Trichlorobenzene

Concen: 0.380 ug/l

RT: 15.394 min Scan# 21

Delta R.T. -0.006 min

Lab File: VN078376.D

Acq: 23 Jun 2023 14:18

Instrument :

MSVOA_N

ClientSampleId :

VN0623WBL01

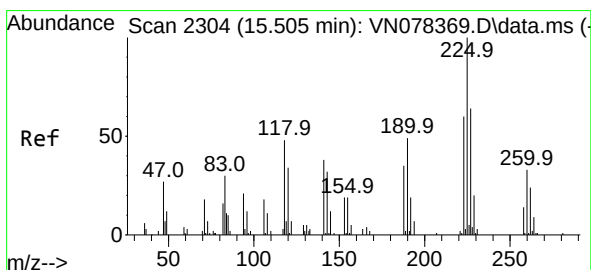
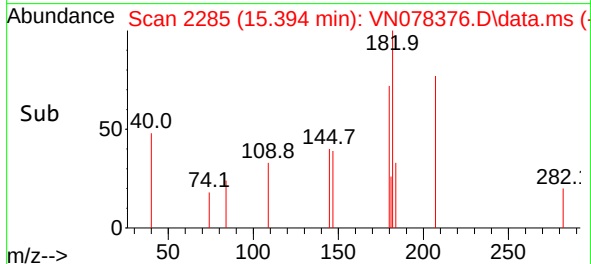
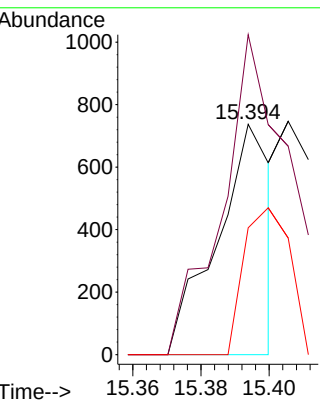
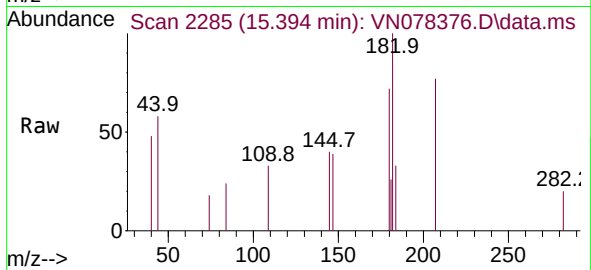
Tgt Ion:180 Resp: 816

Ion Ratio Lower Upper

180 100

182 193.9 73.7 110.5#

145 54.0 25.0 37.6#



#90

Hexachlorobutadiene

Concen: 1.028 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. -0.006 min

Lab File: VN078376.D

Acq: 23 Jun 2023 14:18

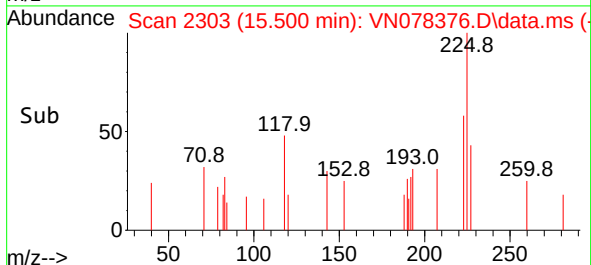
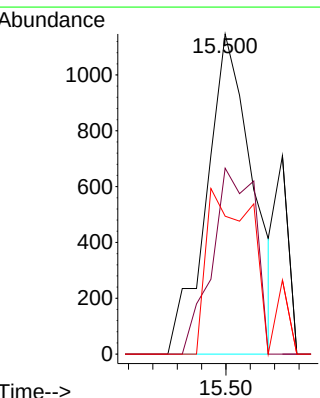
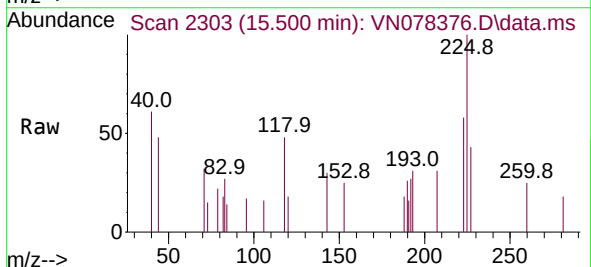
Tgt Ion:225 Resp: 1503

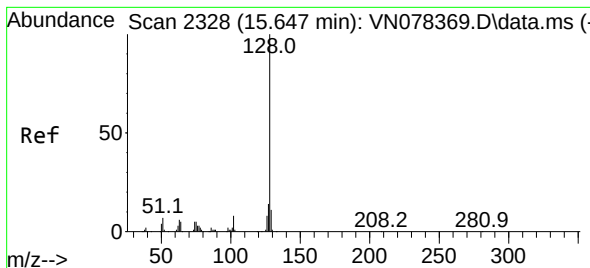
Ion Ratio Lower Upper

225 100

223 54.2 0.0 130.0

227 36.7 0.0 124.0





#91

Naphthalene

Concen: 0.817 ug/l

RT: 15.647 min Scan# 21

Delta R.T. 0.000 min

Lab File: VN078376.D

Acq: 23 Jun 2023 14:18

Instrument :

MSVOA_N

ClientSampleId :

VN0623WBL01

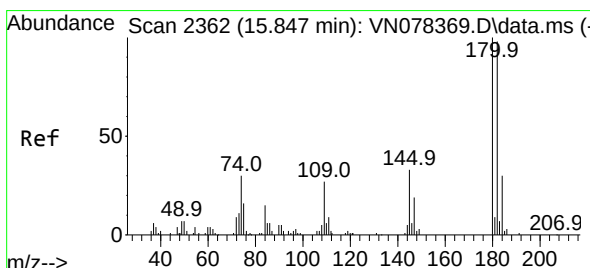
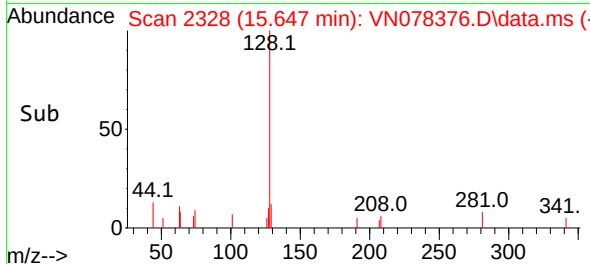
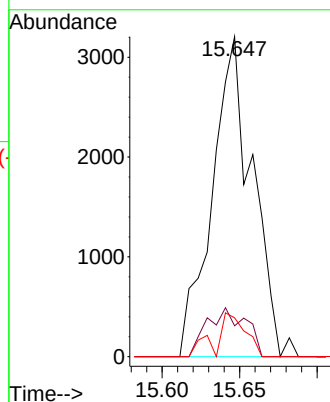
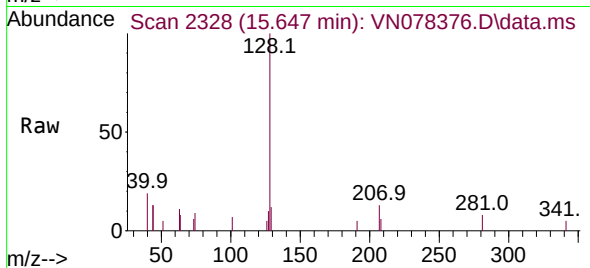
Tgt Ion:128 Resp: 5754

Ion Ratio Lower Upper

128 100

127 4.4 10.2 15.2#

129 0.0 9.0 13.4#



#92

1,2,3-Trichlorobenzene

Concen: 1.023 ug/l

RT: 15.847 min Scan# 2362

Delta R.T. 0.000 min

Lab File: VN078376.D

Acq: 23 Jun 2023 14:18

Tgt Ion:180 Resp: 2544

Ion Ratio Lower Upper

180 100

182 72.2 0.0 196.4

145 19.7 0.0 71.0

