

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110723\
 Data File : VN079976.D
 Acq On : 07 Nov 2023 19:46
 Operator : JC\MD
 Sample : 05107-32 20X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 1079

Quant Time: Nov 08 04:34:53 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N110123W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 02 05:49:08 2023
 Response via : Initial Calibration

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

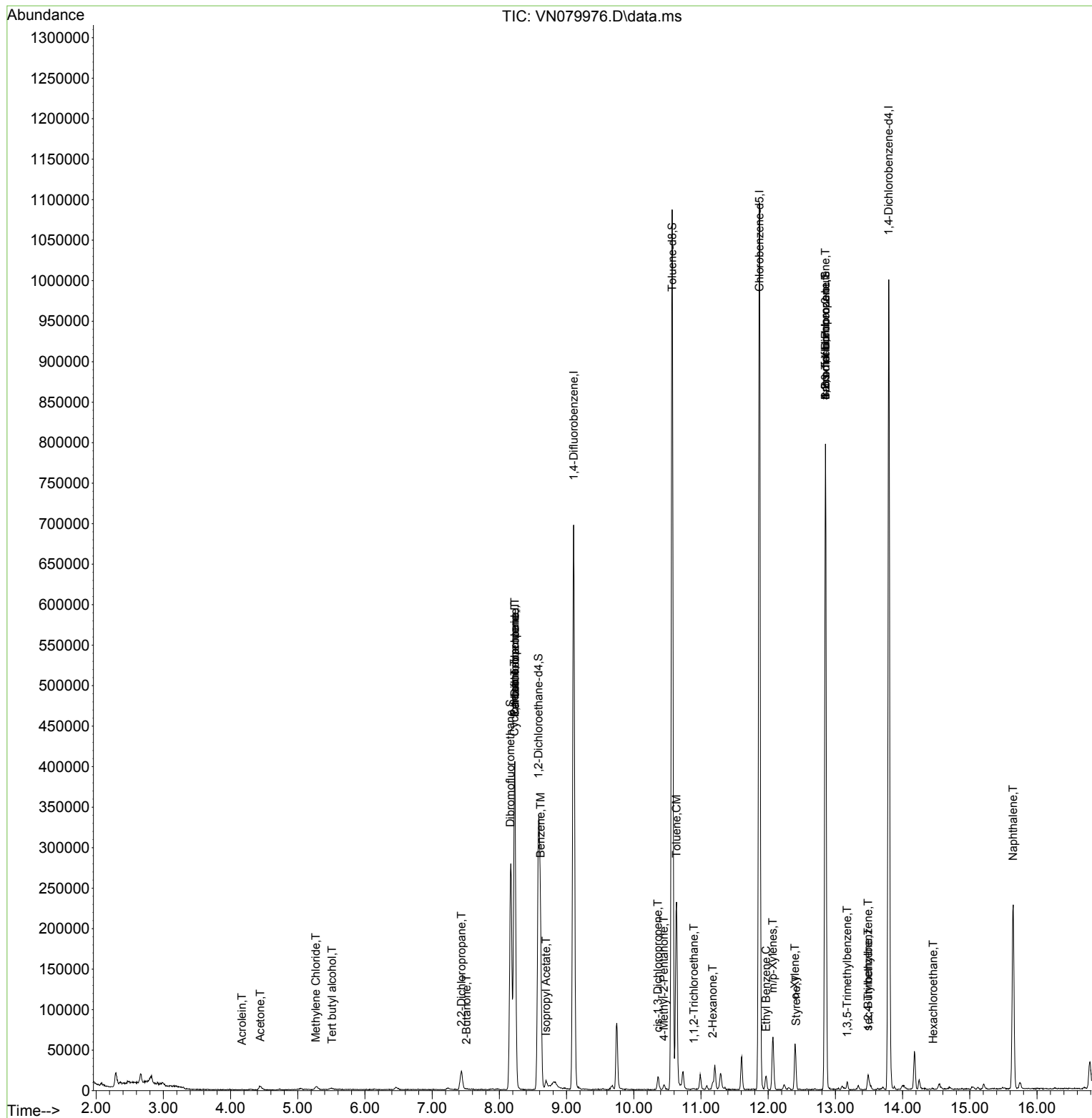
Internal Standards						
1) Pentafluorobenzene	8.230	168	283655	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	584093	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	616123	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	256733	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	243925	56.443	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 112.880%			
35) Dibromofluoromethane	8.165	113	204537	49.477	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.960%			
50) Toluene-d8	10.571	98	727228	47.785	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 95.580%			
62) 4-Bromofluorobenzene	12.853	95	271243	53.741	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 107.480%			
Target Compounds						Qvalue
3) Chloromethane	2.354	50	1195	Below Cal		98
11) Tert butyl alcohol	5.512	59	492	0.892 ug/l #		72
13) Acrolein	4.171	56	59	2.693 ug/l #		67
16) Acetone	4.442	43	9867	6.500 ug/l #		71
20) Methylene Chloride	5.271	84	2796	0.730 ug/l #		71
25) 2-Butanone	7.512	43	2169	0.976 ug/l #		37
26) 2,2-Dichloropropane	7.436	77	1435	0.263 ug/l #		53
31) Cyclohexane	8.224	56	7689	1.346 ug/l #		47
36) 1,1-Dichloropropene	8.230	75	26036	4.411 ug/l #		47
38) Carbon Tetrachloride	8.230	117	30739	5.167 ug/l #		17
40) Benzene	8.612	78	195383	11.052 ug/l		96
43) Isopropyl Acetate	8.694	43	11945	1.258 ug/l #		76
51) 4-Methyl-2-Pentanone	10.447	43	4936	0.924 ug/l #		76
52) Toluene	10.635	92	102813	9.809 ug/l		96
54) cis-1,3-Dichloropropene	10.359	75	2742	0.390 ug/l #		73
55) 1,1,2-Trichloroethane	10.894	97	915	0.217 ug/l #		16
59) 2-Hexanone	11.176	43	6104	1.493 ug/l #		19
67) Ethyl Benzene	11.971	91	11734	0.504 ug/l		90
68) m/p-Xylenes	12.071	106	20021	2.308 ug/l		94
69) o-Xylene	12.400	106	13757	1.647 ug/l		89
70) Styrene	12.418	104	3810	0.284 ug/l #		46
71) Bromoform	12.853	173	1715	0.502 ug/l #		1
76) 1,2,3-Trichloropropane	12.853	75	144567	23.985 ug/l #		1
80) 1,3,5-Trimethylbenzene	13.176	105	4079	0.269 ug/l		94
81) trans-1,4-Dichloro-2-b...	12.853	75	144567	65.258 ug/l #		15
84) 1,2,4-Trimethylbenzene	13.488	105	11774	0.789 ug/l		84
85) sec-Butylbenzene	13.488	105	11774	0.685 ug/l #		57
90) Hexachloroethane	14.459	117	633	0.228 ug/l #		21
95) Naphthalene	15.647	128	210632	15.593 ug/l		98

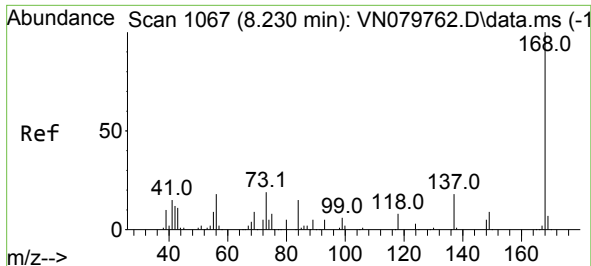
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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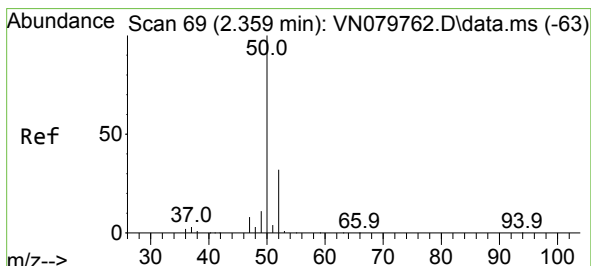
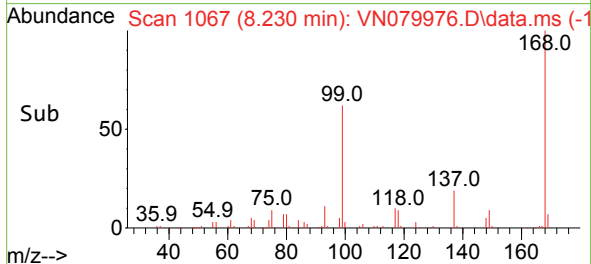
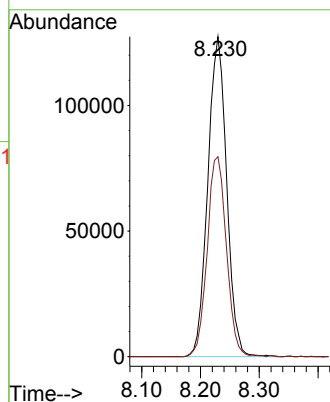
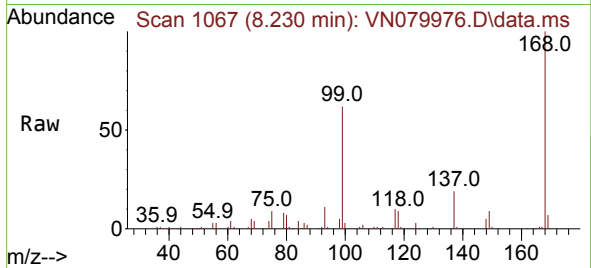




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1079
Delta R.T. 0.001 min
Lab File: VN079976.D
Acq: 07 Nov 2023 19:46

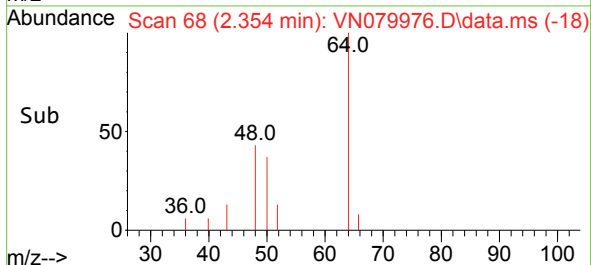
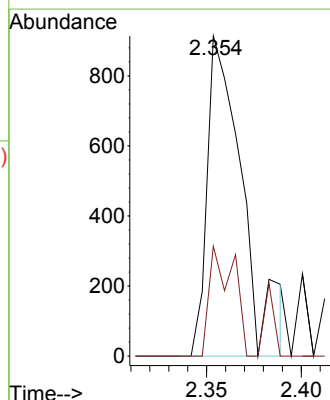
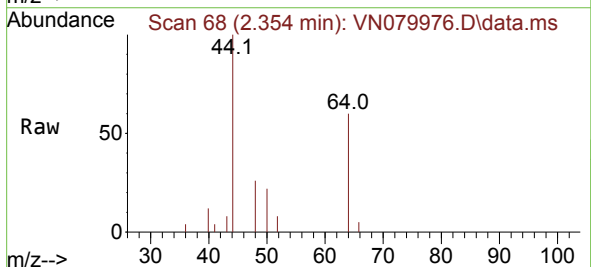
Instrument :
MSVOA_N
ClientSampleId :
1079

Tgt Ion:168 Resp: 283655
Ion Ratio Lower Upper
168 100
99 62.5 53.0 79.6



#3
Chloromethane
Concen: Below Cal
RT: 2.354 min Scan# 68
Delta R.T. -0.005 min
Lab File: VN079976.D
Acq: 07 Nov 2023 19:46

Tgt Ion: 50 Resp: 1195
Ion Ratio Lower Upper
50 100
52 34.4 26.5 39.7

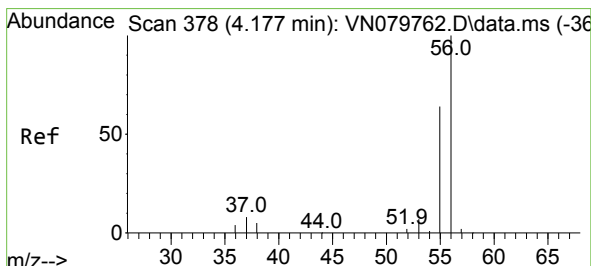
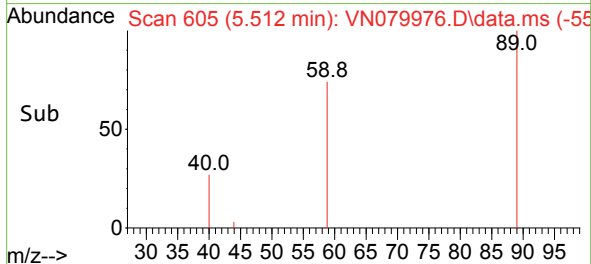
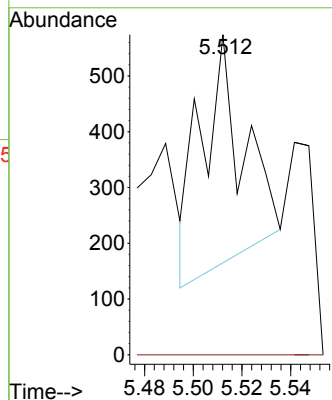
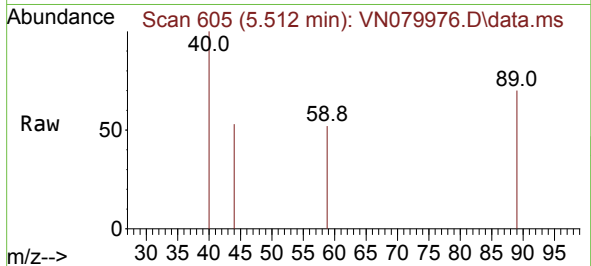




#11
Tert butyl alcohol
Concen: 0.892 ug/l
RT: 5.512 min Scan# 607
Delta R.T. -0.006 min
Lab File: VN079976.D
Acq: 07 Nov 2023 19:46

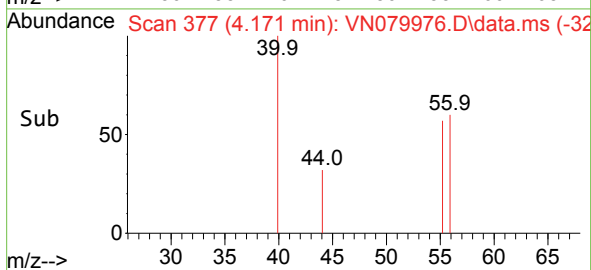
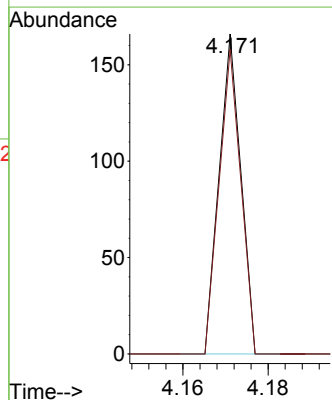
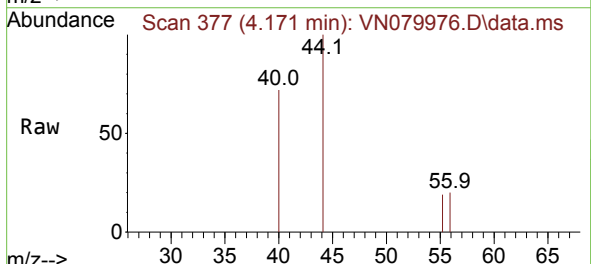
Instrument :
MSVOA_N
ClientSampleId :
1079

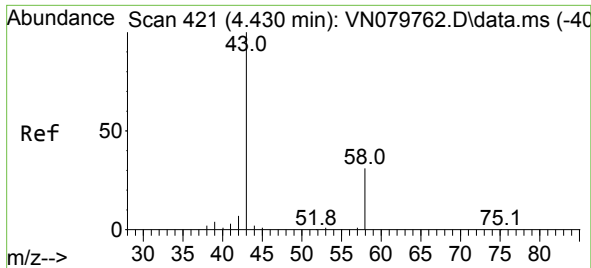
Tgt Ion: 59 Resp: 492
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#13
Acrolein
Concen: 2.693 ug/l
RT: 4.171 min Scan# 377
Delta R.T. -0.012 min
Lab File: VN079976.D
Acq: 07 Nov 2023 19:46

Tgt Ion: 56 Resp: 59
Ion Ratio Lower Upper
56 100
55 94.9 54.5 81.7#





#16

Acetone

Concen: 6.500 ug/l

RT: 4.442 min Scan# 41

Delta R.T. 0.012 min

Lab File: VN079976.D

Acq: 07 Nov 2023 19:46

Instrument :

MSVOA_N

ClientSampleId :

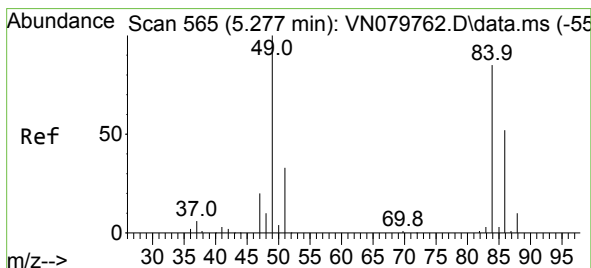
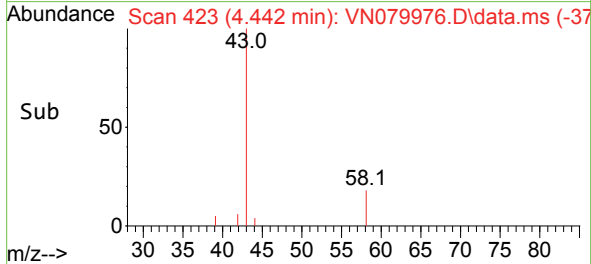
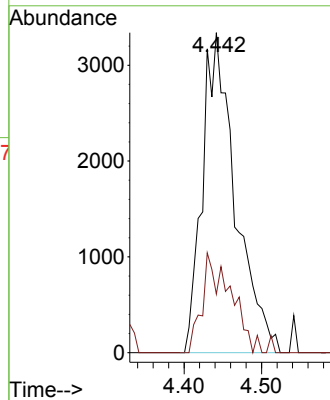
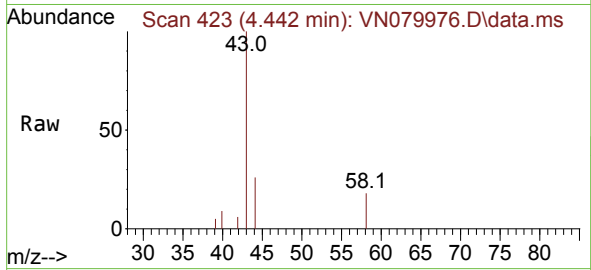
1079

Tgt Ion: 43 Resp: 9867

Ion Ratio Lower Upper

43 100

58 18.3 28.0 42.0#



#20

Methylene Chloride

Concen: 0.730 ug/l

RT: 5.271 min Scan# 564

Delta R.T. 0.000 min

Lab File: VN079976.D

Acq: 07 Nov 2023 19:46

Tgt Ion: 84 Resp: 2796

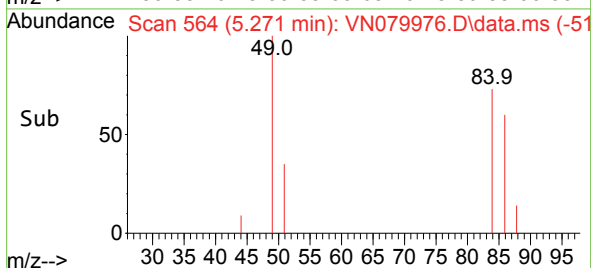
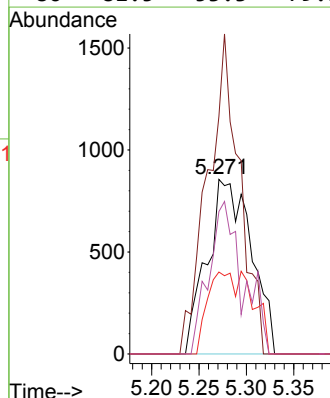
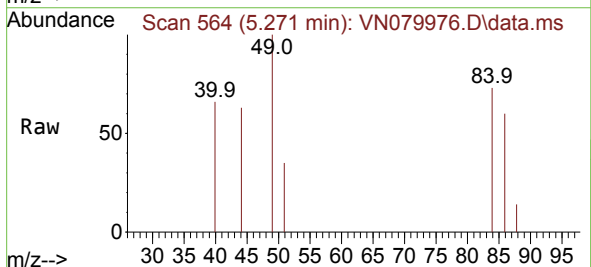
Ion Ratio Lower Upper

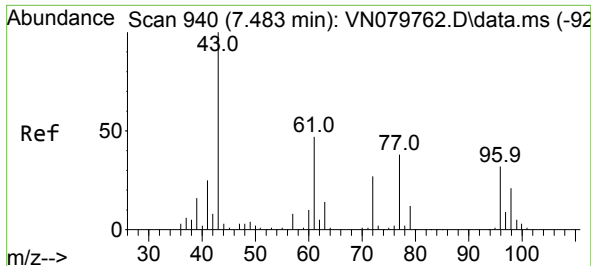
84 100

49 136.1 79.7 119.5#

51 47.0 25.2 37.8#

86 81.5 53.3 79.9#

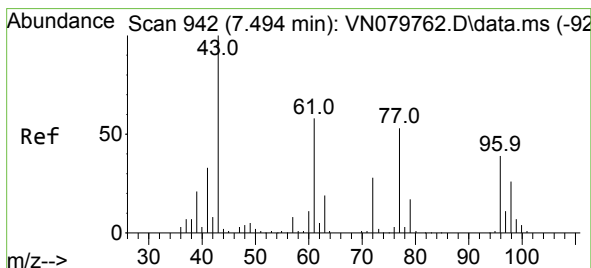
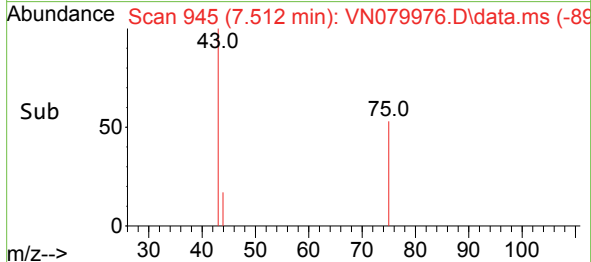
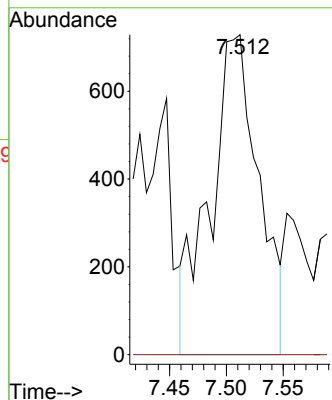
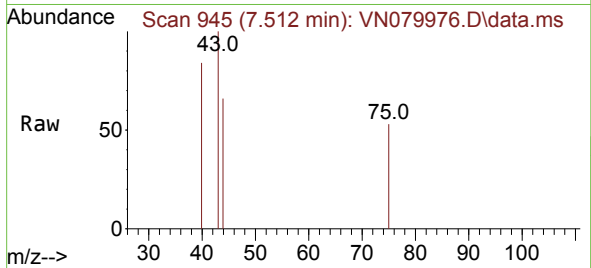




#25
2-Butanone
Concen: 0.976 ug/l
RT: 7.512 min Scan# 941
Delta R.T. 0.024 min
Lab File: VN079976.D
Acq: 07 Nov 2023 19:46

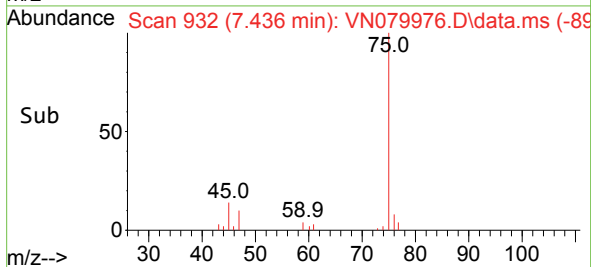
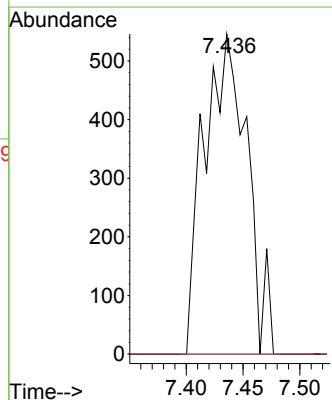
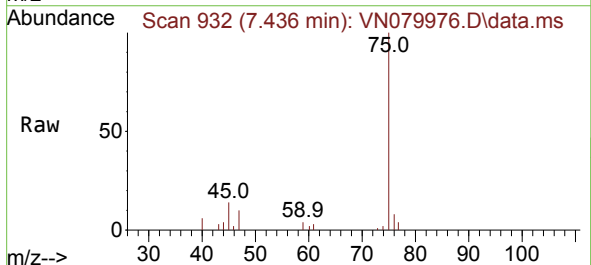
Instrument :
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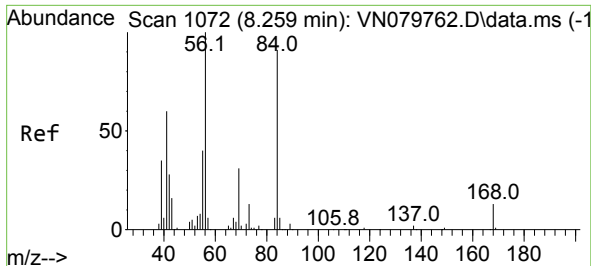
Tgt Ion: 43 Resp: 2169
Ion Ratio Lower Upper
43 100
72 0.0 30.2 45.2#



#26
2,2-Dichloropropane
Concen: 0.263 ug/l
RT: 7.436 min Scan# 932
Delta R.T. -0.053 min
Lab File: VN079976.D
Acq: 07 Nov 2023 19:46

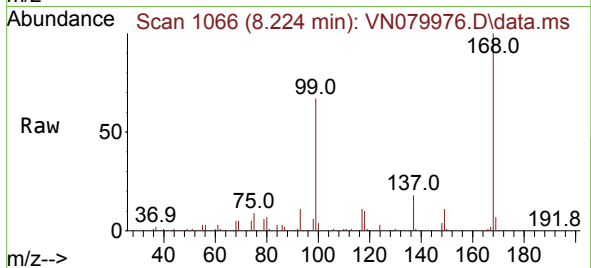
Tgt Ion: 77 Resp: 1435
Ion Ratio Lower Upper
77 100
97 0.0 11.2 33.6#



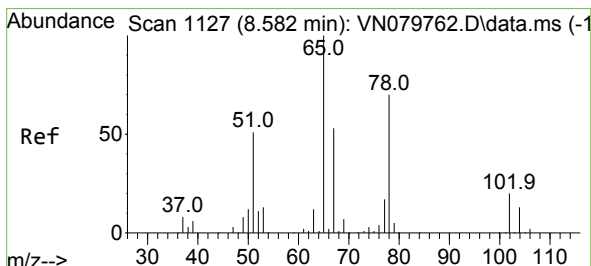
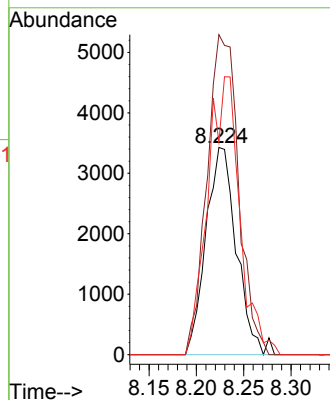
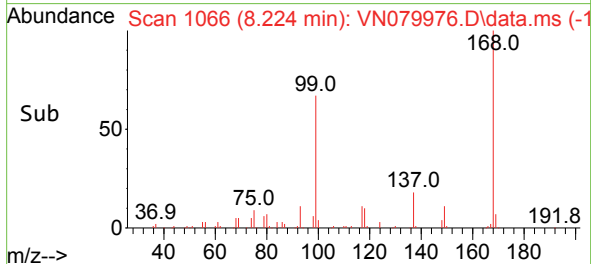


#31
Cyclohexane
Concen: 1.346 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.035 min
Lab File: VN079976.D
Acq: 07 Nov 2023 19:46

Instrument :
MSVOA_N
ClientSampleId :
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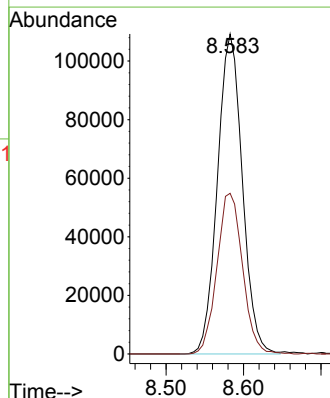
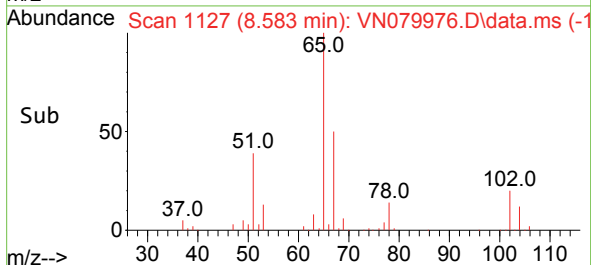
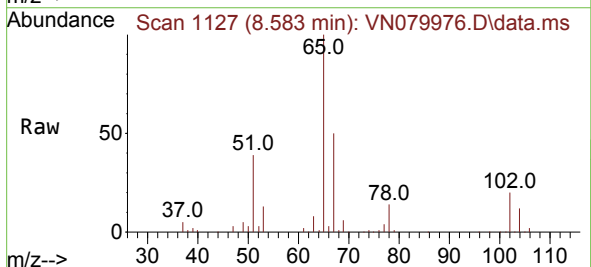


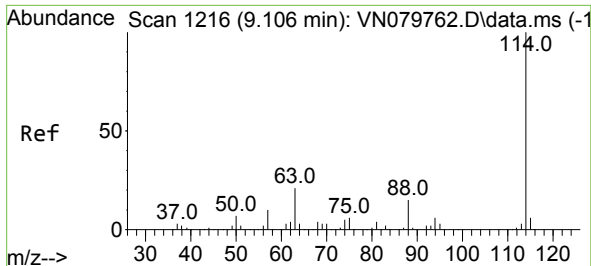
Tgt Ion: 56 Resp: 7689
Ion Ratio Lower Upper
56 100
69 154.4 26.8 40.2#
84 102.6 81.8 122.6



#33
1,2-Dichloroethane-d4
Concen: 56.443 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. 0.000 min
Lab File: VN079976.D
Acq: 07 Nov 2023 19:46

Tgt Ion: 65 Resp: 243925
Ion Ratio Lower Upper
65 100
67 51.6 0.0 106.6

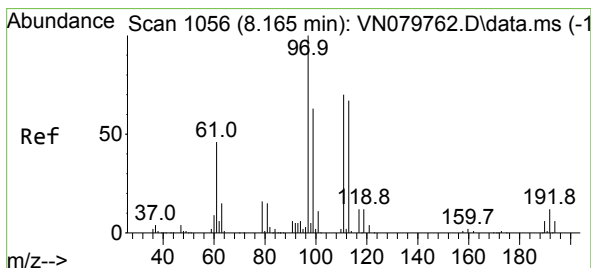
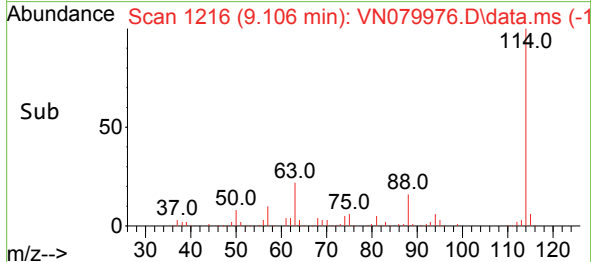
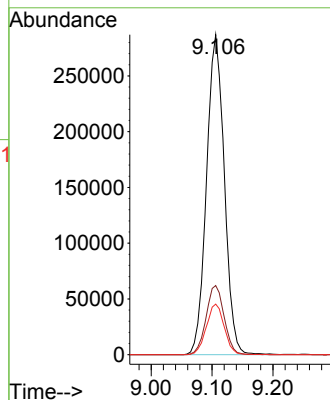
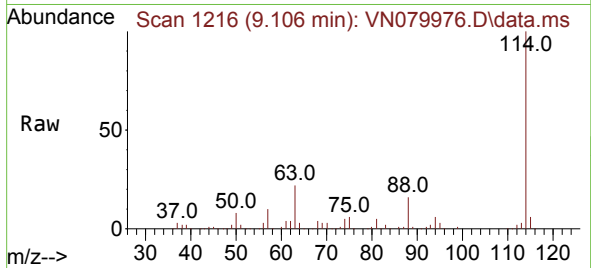




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN079976.D
Acq: 07 Nov 2023 19:46

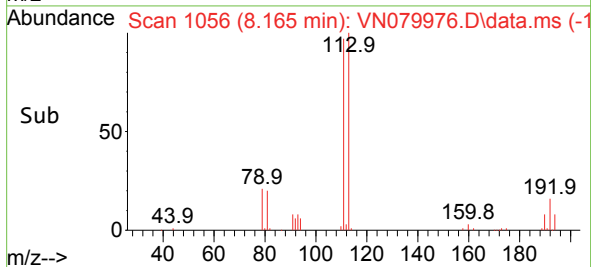
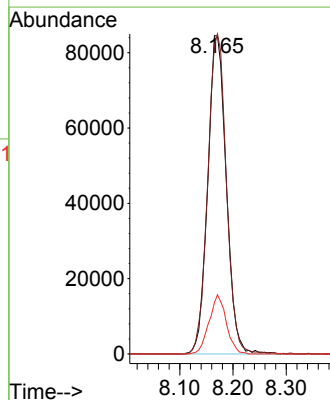
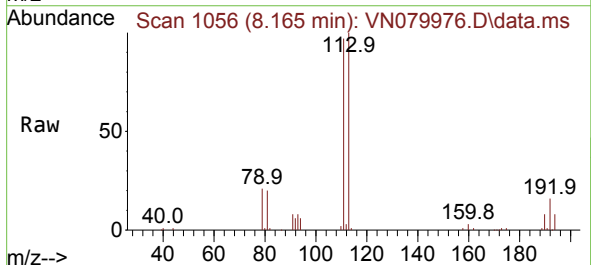
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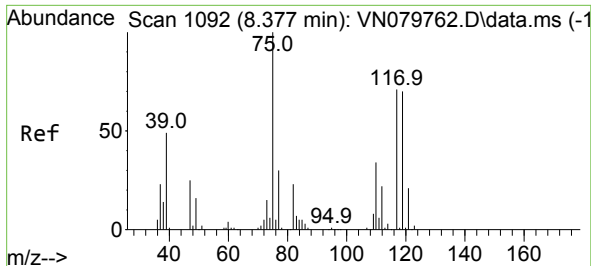
Tgt Ion:114 Resp: 584093
Ion Ratio Lower Upper
114 100
63 21.6 0.0 36.4
88 15.8 0.0 30.6



#35
Dibromofluoromethane
Concen: 49.477 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.006 min
Lab File: VN079976.D
Acq: 07 Nov 2023 19:46

Tgt Ion:113 Resp: 204537
Ion Ratio Lower Upper
113 100
111 100.7 82.6 123.8
192 17.2 12.7 19.1

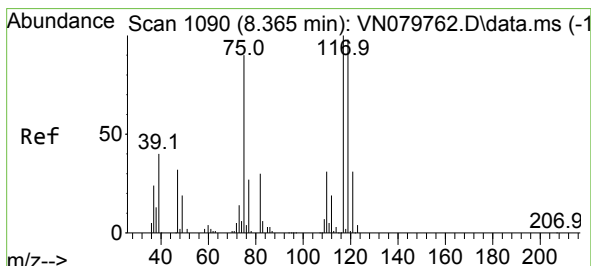
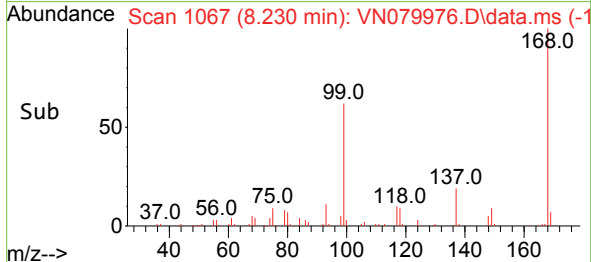
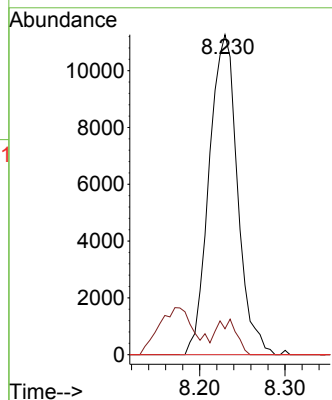
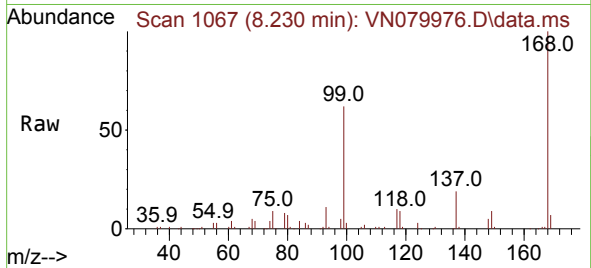




#36
1,1-Dichloropropene
Concen: 4.411 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.147 min
Lab File: VN079976.D
Acq: 07 Nov 2023 19:46

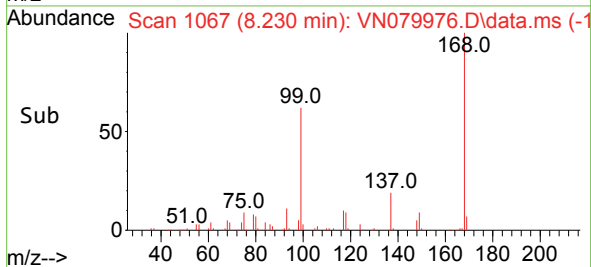
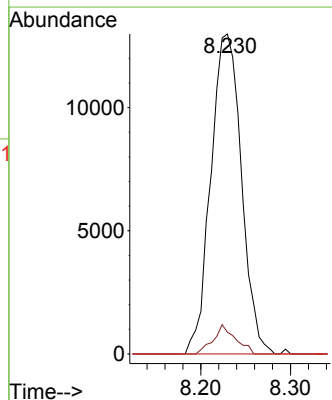
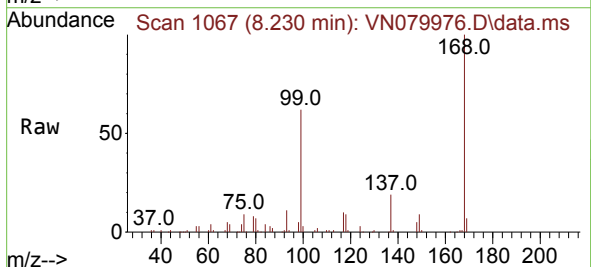
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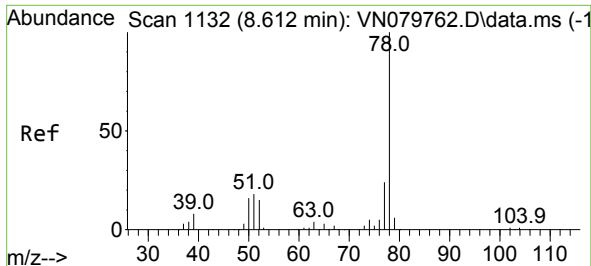
Tgt Ion: 75 Resp: 26036
Ion Ratio Lower Upper
75 100
110 7.7 19.1 57.3#
77 0.0 25.0 37.4#



#38
Carbon Tetrachloride
Concen: 5.167 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.129 min
Lab File: VN079976.D
Acq: 07 Nov 2023 19:46

Tgt Ion: 117 Resp: 30739
Ion Ratio Lower Upper
117 100
119 6.8 77.3 115.9#
121 0.0 23.3 34.9#

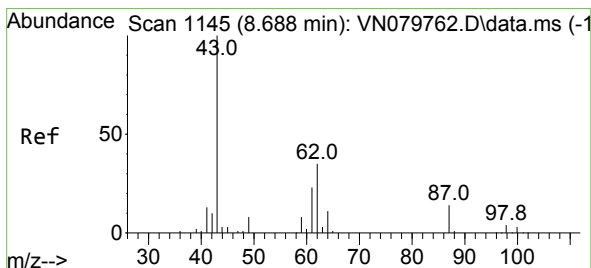
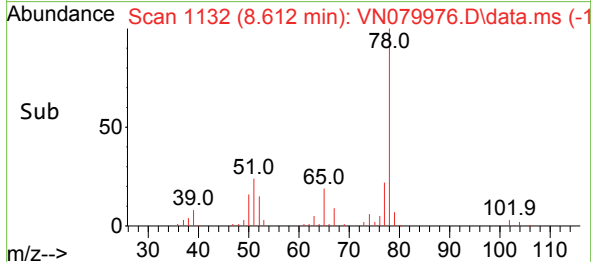
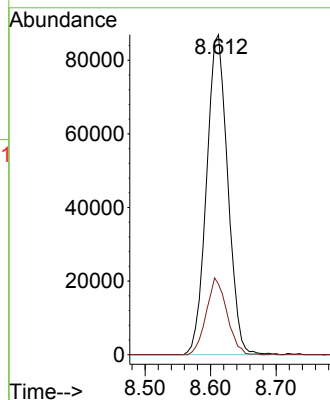
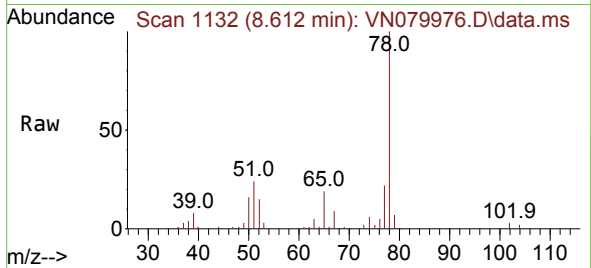




#40
Benzene
Concen: 11.052 ug/l
RT: 8.612 min Scan# 1132
Delta R.T. 0.000 min
Lab File: VN079976.D
Acq: 07 Nov 2023 19:46

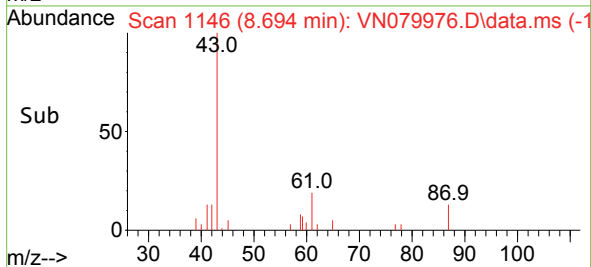
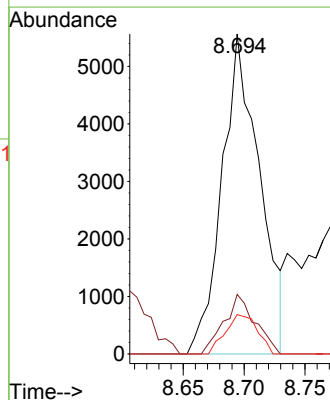
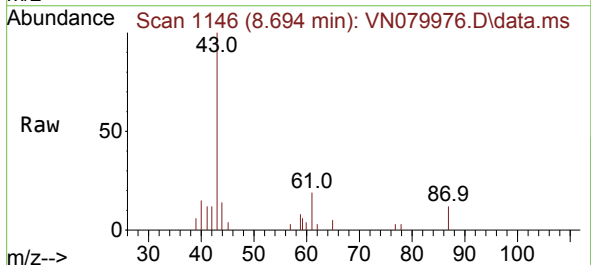
Instrument :
MSVOA_N
ClientSampleId :
1079

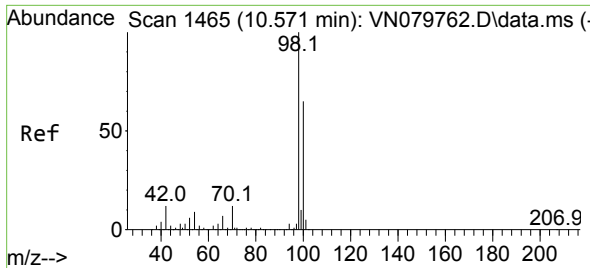
Tgt Ion: 78 Resp: 195383
Ion Ratio Lower Upper
78 100
77 22.0 19.0 28.6



#43
Isopropyl Acetate
Concen: 1.258 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.006 min
Lab File: VN079976.D
Acq: 07 Nov 2023 19:46

Tgt Ion: 43 Resp: 11945
Ion Ratio Lower Upper
43 100
61 15.4 24.7 37.1#
87 10.4 14.6 21.8#

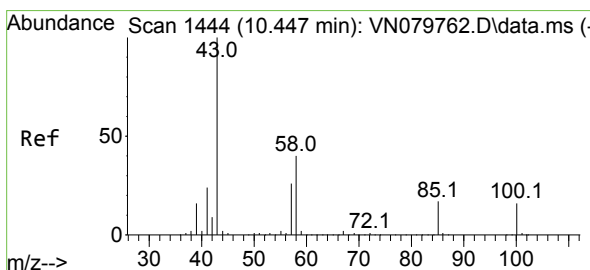
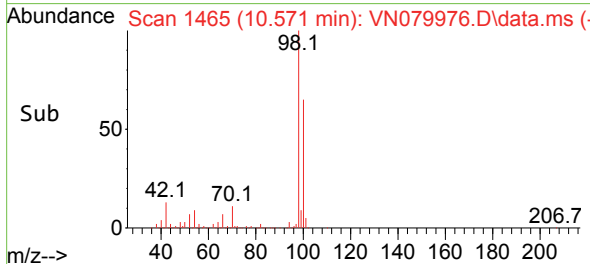
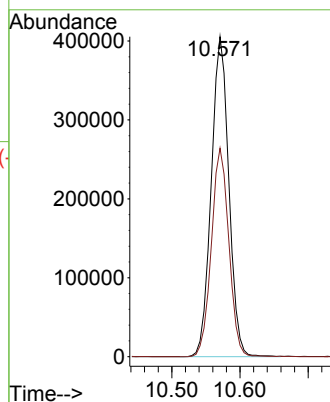
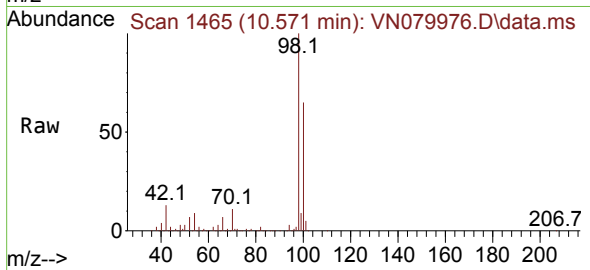




#50
Toluene-d8
Concen: 47.785 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VN079976.D
Acq: 07 Nov 2023 19:46

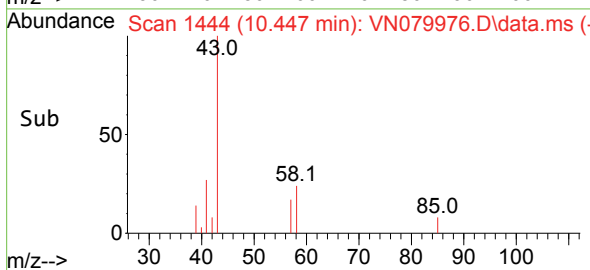
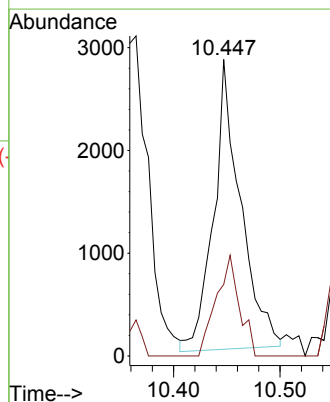
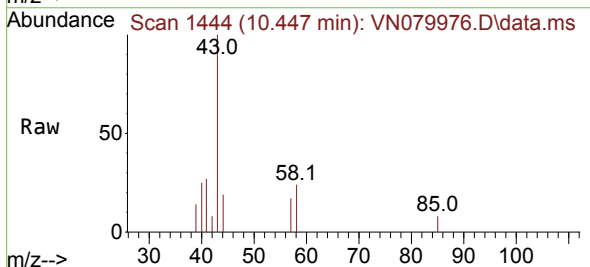
Instrument :
MSVOA_N
ClientSampleId :
1079

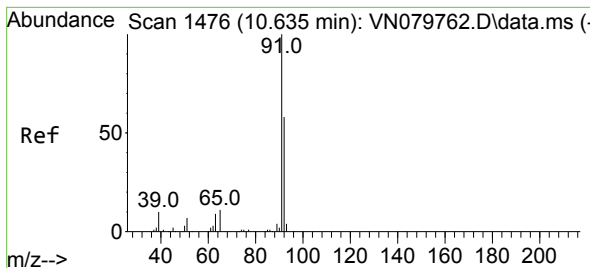
Tgt Ion: 98 Resp: 727228
Ion Ratio Lower Upper
98 100
100 64.7 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 0.924 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.000 min
Lab File: VN079976.D
Acq: 07 Nov 2023 19:46

Tgt Ion: 43 Resp: 4936
Ion Ratio Lower Upper
43 100
58 30.0 36.6 54.8#





#52

Toluene

Concen: 9.809 ug/l

RT: 10.635 min Scan# 1476

Delta R.T. 0.000 min

Lab File: VN079976.D

Acq: 07 Nov 2023 19:46

Instrument :

MSVOA_N

ClientSampleId :

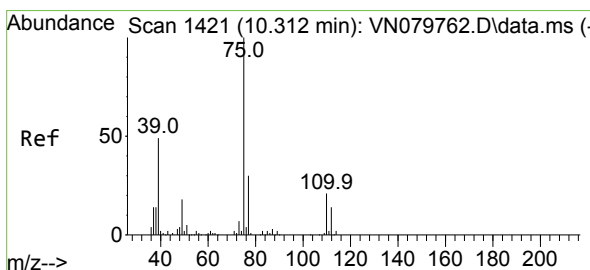
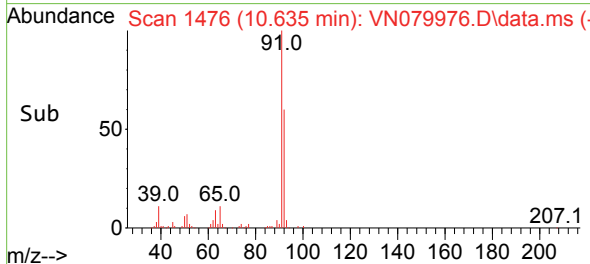
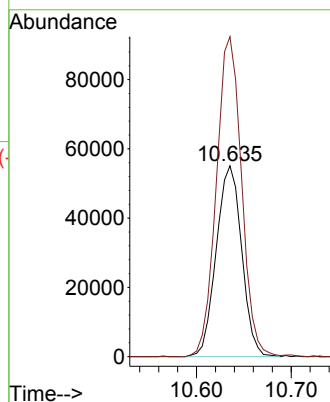
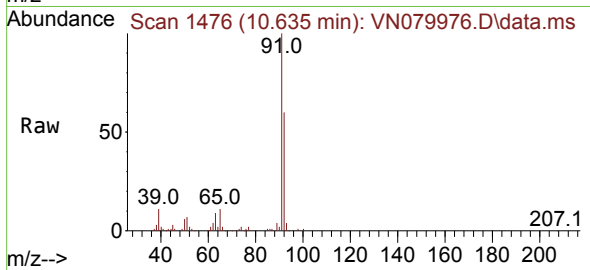
1079

Tgt Ion: 92 Resp: 102813

Ion Ratio Lower Upper

92 100

91 166.7 137.4 206.0



#54

cis-1,3-Dichloropropene

Concen: 0.390 ug/l

RT: 10.359 min Scan# 1429

Delta R.T. 0.041 min

Lab File: VN079976.D

Acq: 07 Nov 2023 19:46

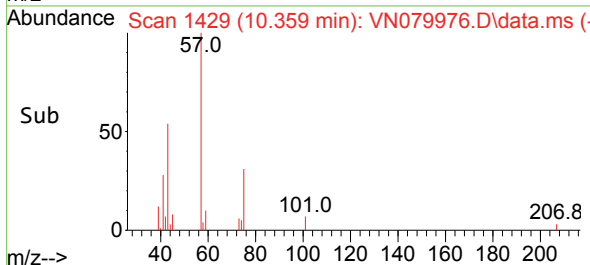
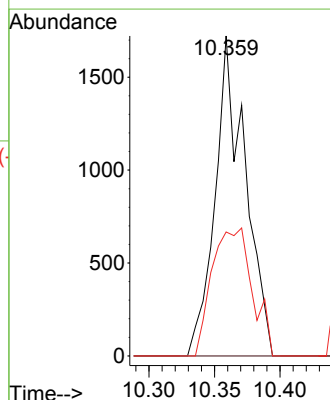
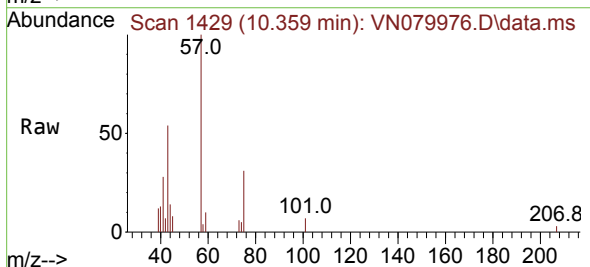
Tgt Ion: 75 Resp: 2742

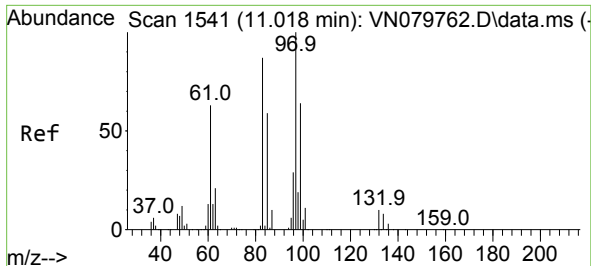
Ion Ratio Lower Upper

75 100

77 0.0 26.1 39.1#

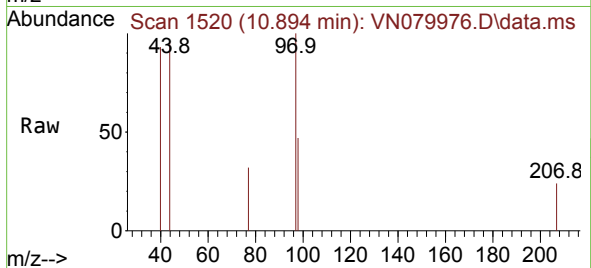
39 38.7 31.6 47.4



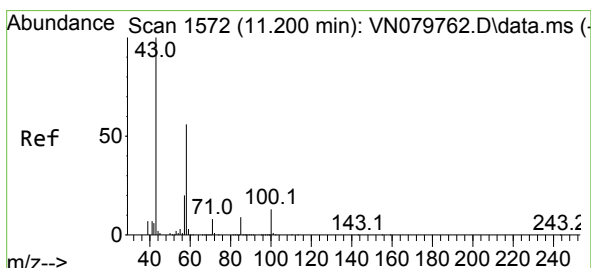
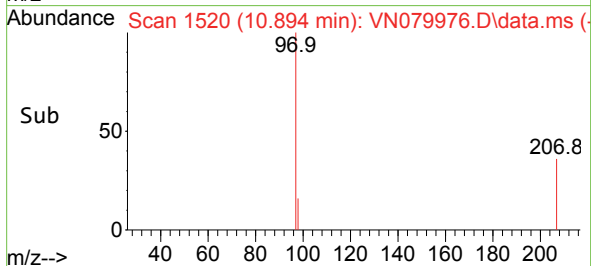
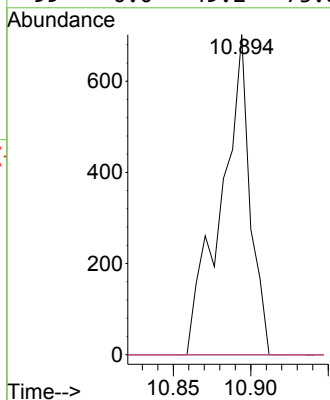


#55
1,1,2-Trichloroethane
Concen: 0.217 ug/l
RT: 10.894 min Scan# 11079
Delta R.T. -0.123 min
Lab File: VN079976.D
Acq: 07 Nov 2023 19:46

Instrument :
MSVOA_N
ClientSampleId :
1079

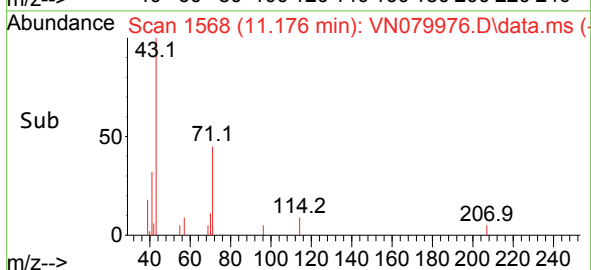
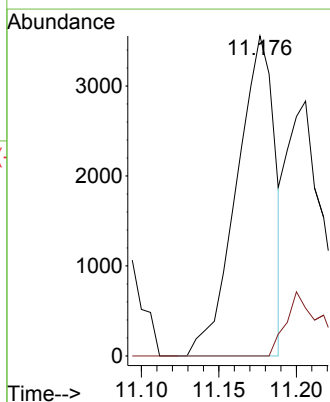
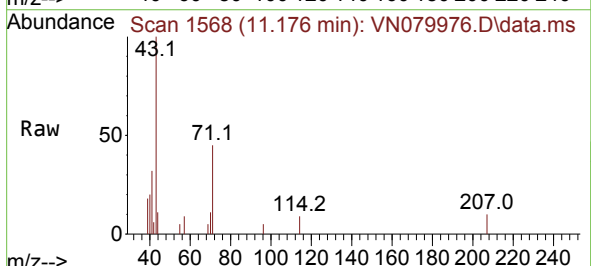


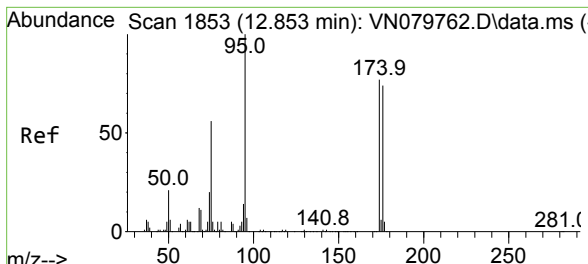
Tgt Ion: 97	Resp:	915
Ion	Ratio	Lower Upper
97	100	
83	0.0	65.1 97.7#
85	0.0	43.4 65.2#
99	0.0	49.2 73.8#



#59
2-Hexanone
Concen: 1.493 ug/l
RT: 11.176 min Scan# 1568
Delta R.T. -0.023 min
Lab File: VN079976.D
Acq: 07 Nov 2023 19:46

Tgt Ion: 43	Resp:	6104
Ion	Ratio	Lower Upper
43	100	
58	0.0	31.7 95.1#

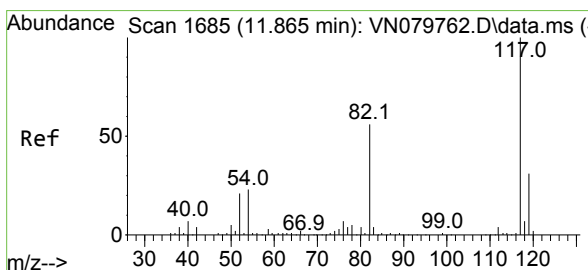
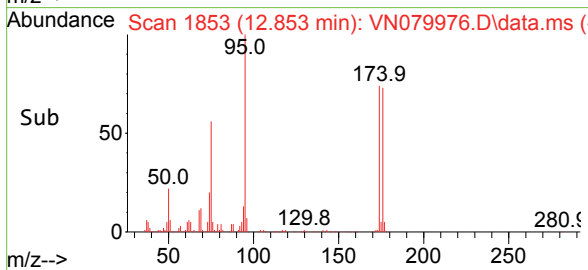
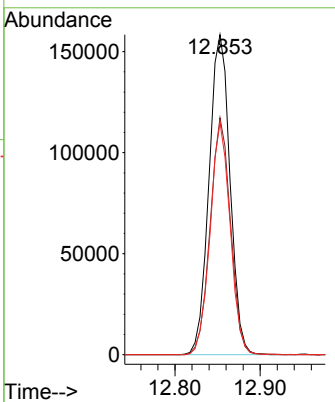
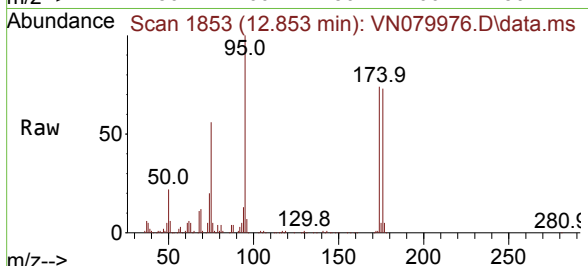




#62
 4-Bromofluorobenzene
 Concen: 53.741 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. 0.000 min
 Lab File: VN079976.D
 Acq: 07 Nov 2023 19:46

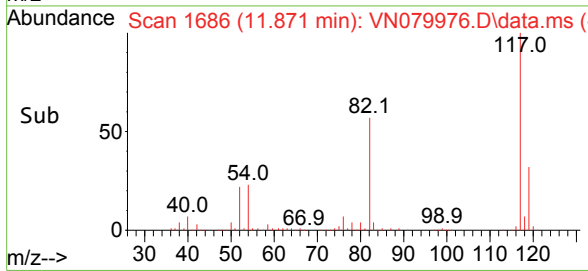
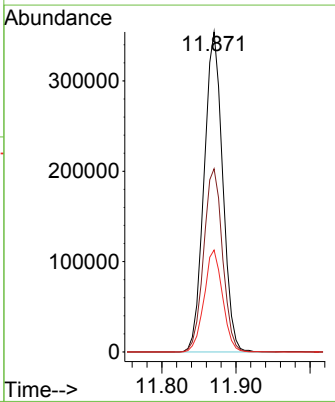
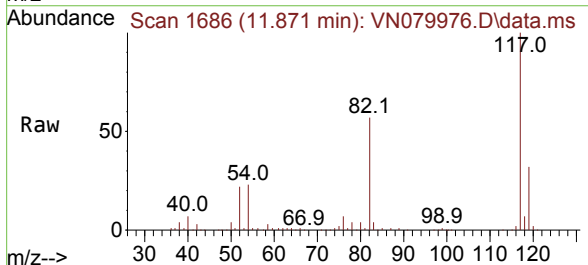
Instrument :
 MSVOA_N
 ClientSampleId :
 1079

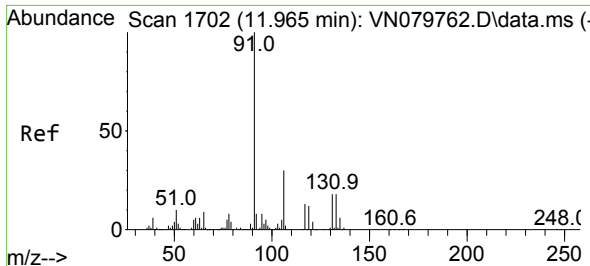
Tgt Ion:	95	Resp:	271243
Ion	Ratio	Lower	Upper
95	100		
174	71.9	0.0	143.8
176	69.1	0.0	135.8



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.871 min Scan# 1686
 Delta R.T. 0.000 min
 Lab File: VN079976.D
 Acq: 07 Nov 2023 19:46

Tgt Ion:	117	Resp:	616123
Ion	Ratio	Lower	Upper
117	100		
82	57.2	44.0	66.0
119	31.8	25.6	38.4

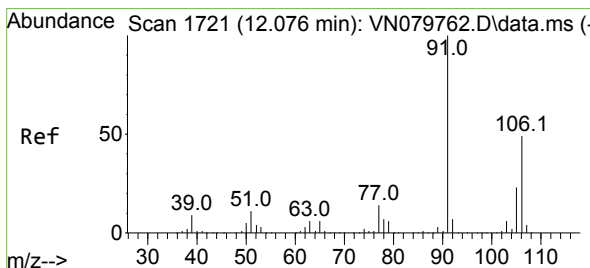
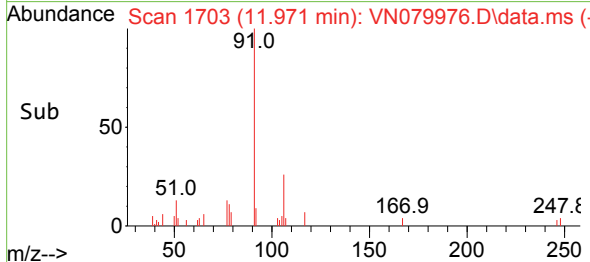
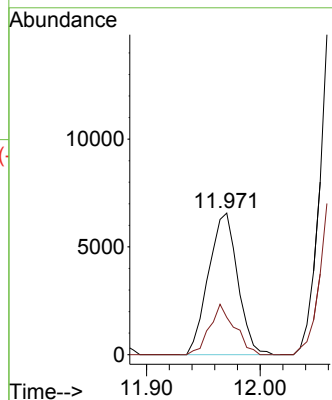
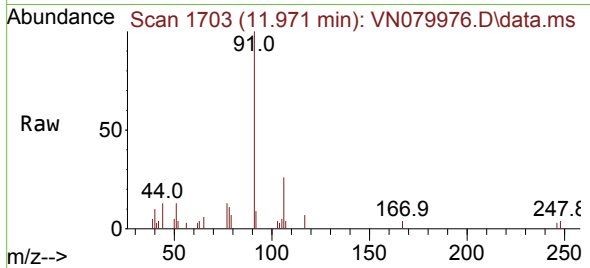




#67
Ethyl Benzene
Concen: 0.504 ug/l
RT: 11.971 min Scan# 11734
Delta R.T. 0.006 min
Lab File: VN079976.D
Acq: 07 Nov 2023 19:46

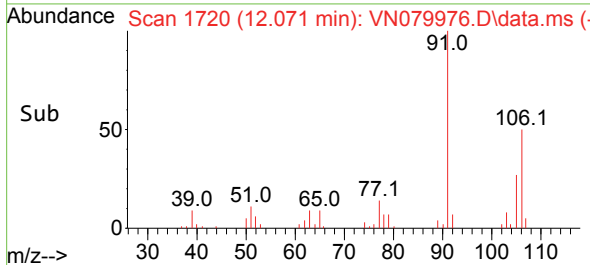
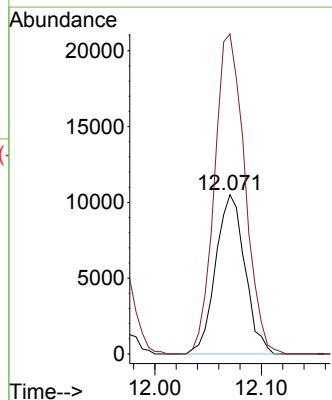
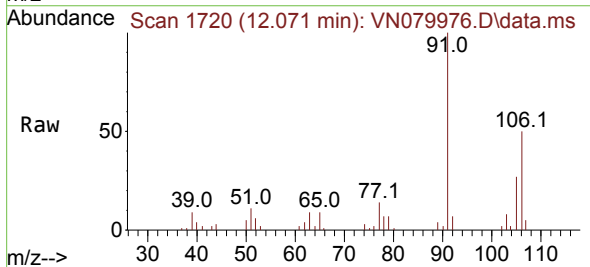
Instrument :
MSVOA_N
ClientSampleId :
1079

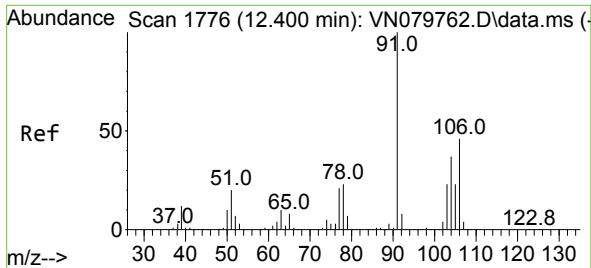
Tgt Ion: 91 Resp: 11734
Ion Ratio Lower Upper
91 100
106 26.4 25.6 38.4



#68
m/p-Xylenes
Concen: 2.308 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. 0.000 min
Lab File: VN079976.D
Acq: 07 Nov 2023 19:46

Tgt Ion: 106 Resp: 20021
Ion Ratio Lower Upper
106 100
91 208.6 159.6 239.4

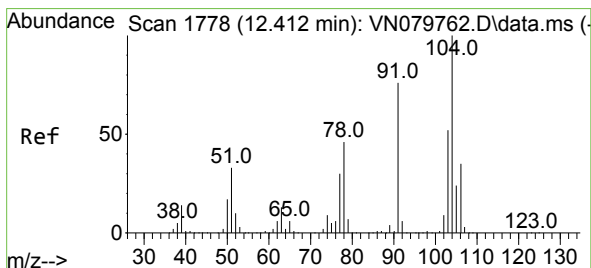
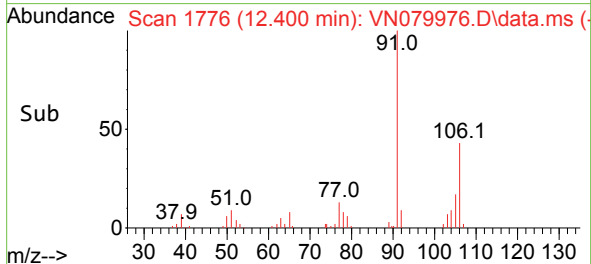
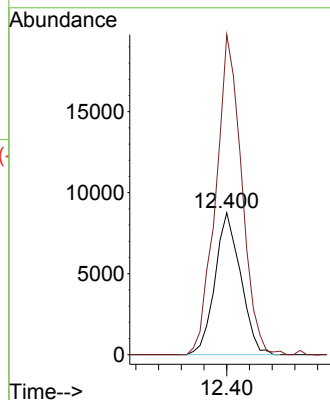
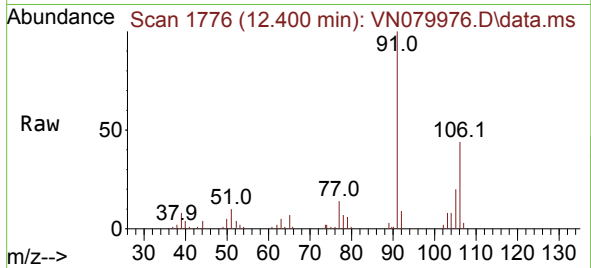




#69
o-Xylene
Concen: 1.647 ug/l
RT: 12.400 min Scan# 1776
Delta R.T. 0.000 min
Lab File: VN079976.D
Acq: 07 Nov 2023 19:46

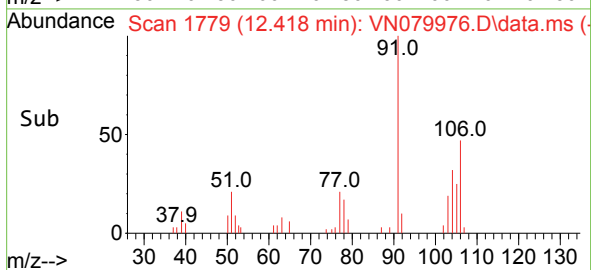
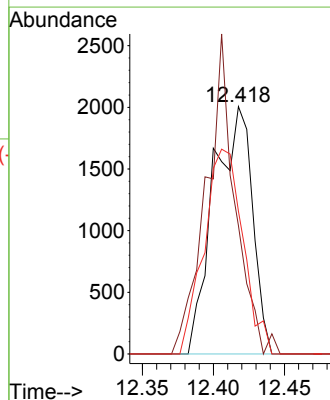
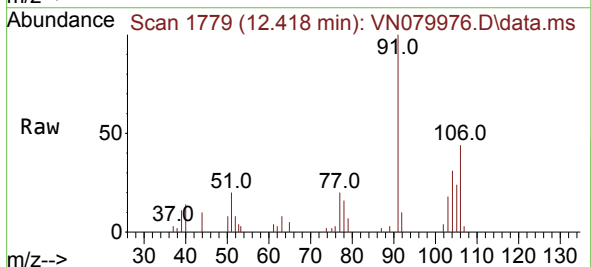
Instrument :
MSVOA_N
ClientSampleId :
1079

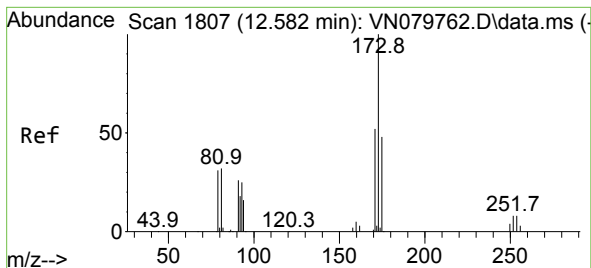
Tgt Ion:106 Resp: 13757
Ion Ratio Lower Upper
106 100
91 227.7 105.2 315.5



#70
Styrene
Concen: 0.284 ug/l
RT: 12.418 min Scan# 1779
Delta R.T. 0.006 min
Lab File: VN079976.D
Acq: 07 Nov 2023 19:46

Tgt Ion:104 Resp: 3810
Ion Ratio Lower Upper
104 100
78 95.9 39.5 59.3#
103 83.1 43.2 64.8#





#71

Bromoform

Concen: 0.502 ug/l

RT: 12.853 min Scan# 1807

Delta R.T. 0.271 min

Lab File: VN079976.D

Acq: 07 Nov 2023 19:46

Instrument :

MSVOA_N

ClientSampleId :

1079

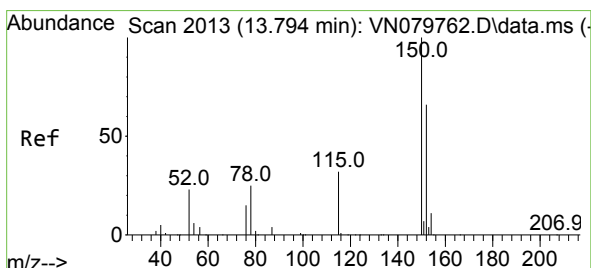
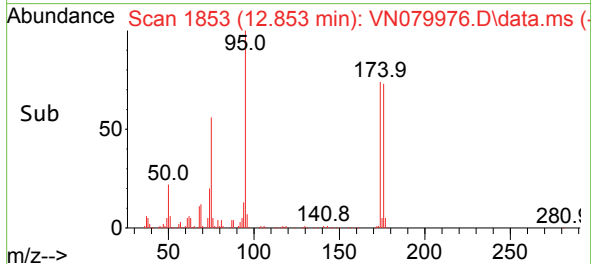
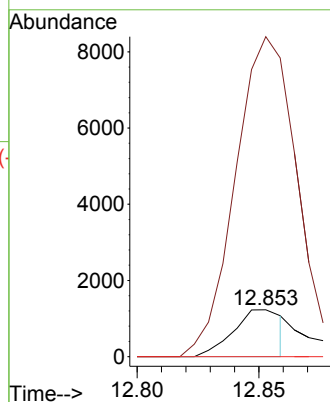
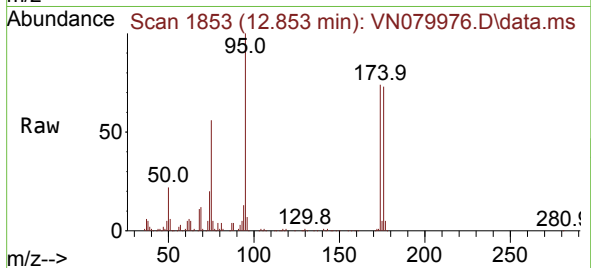
Tgt Ion:173 Resp: 1715

Ion Ratio Lower Upper

173 100

175 669.9 24.3 73.0#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 2013

Delta R.T. 0.000 min

Lab File: VN079976.D

Acq: 07 Nov 2023 19:46

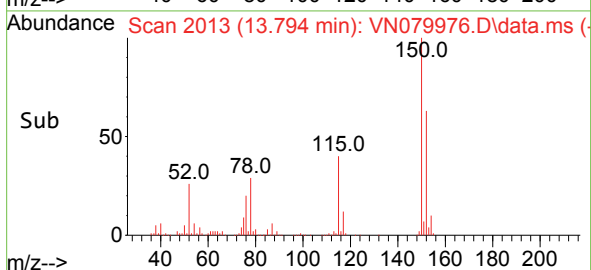
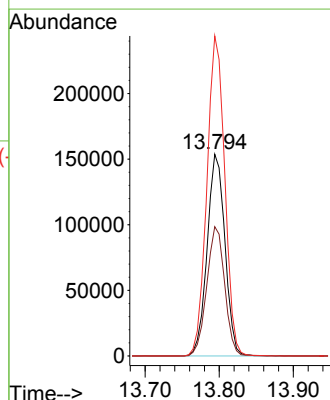
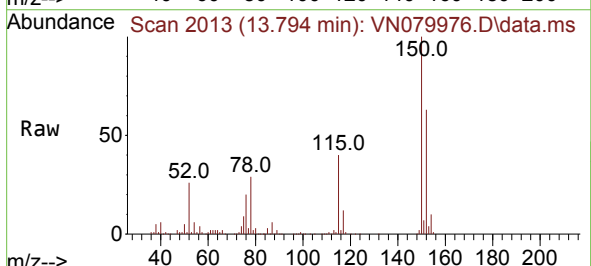
Tgt Ion:152 Resp: 256733

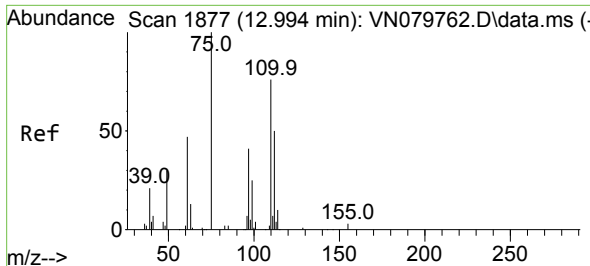
Ion Ratio Lower Upper

152 100

115 64.5 32.3 96.8

150 159.0 0.0 355.8

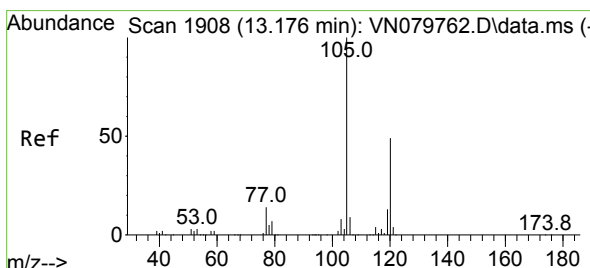
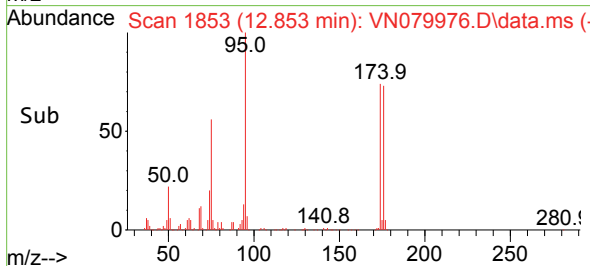
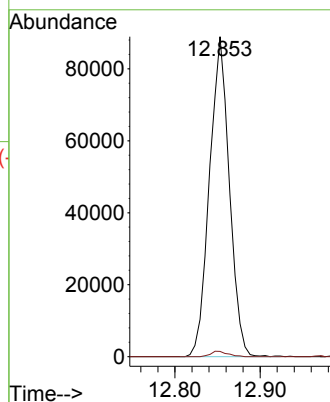
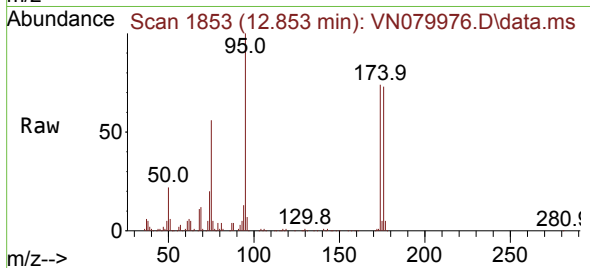




#76
1,2,3-Trichloropropane
Concen: 23.985 ug/l
RT: 12.853 min Scan# 1877
Delta R.T. -0.141 min
Lab File: VN079976.D
Acq: 07 Nov 2023 19:46

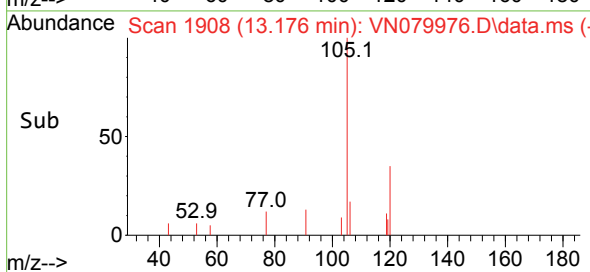
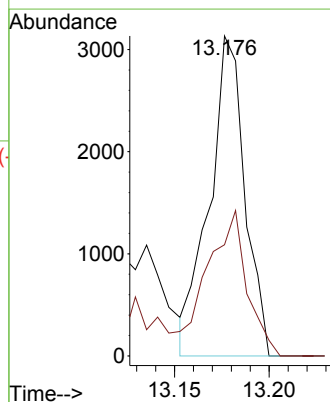
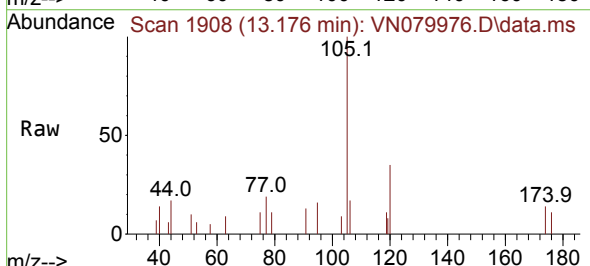
Instrument :
MSVOA_N
ClientSampleId :
1079

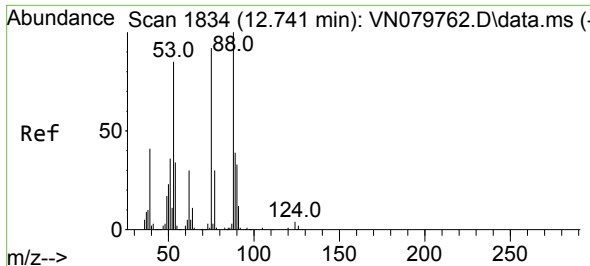
Tgt Ion: 75 Resp: 144567
Ion Ratio Lower Upper
75 100
77 1.5 84.5 253.5#



#80
1,3,5-Trimethylbenzene
Concen: 0.269 ug/l
RT: 13.176 min Scan# 1908
Delta R.T. 0.000 min
Lab File: VN079976.D
Acq: 07 Nov 2023 19:46

Tgt Ion:105 Resp: 4079
Ion Ratio Lower Upper
105 100
120 52.1 24.1 72.3

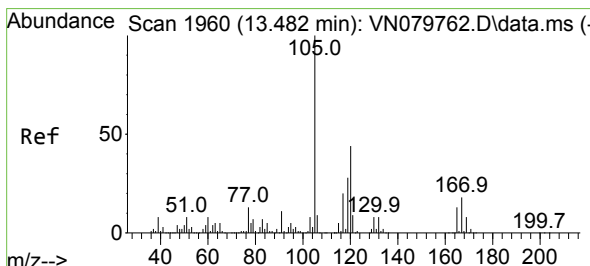
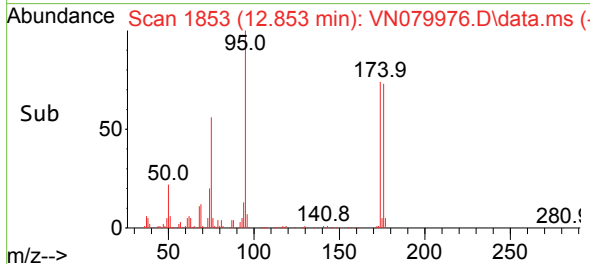
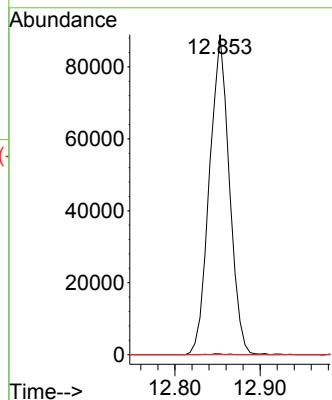
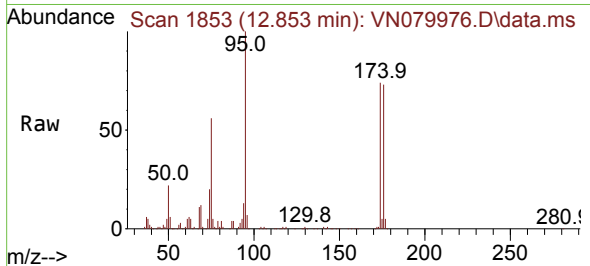




#81
trans-1,4-Dichloro-2-butene
Concen: 65.258 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.118 min
Lab File: VN079976.D
Acq: 07 Nov 2023 19:46

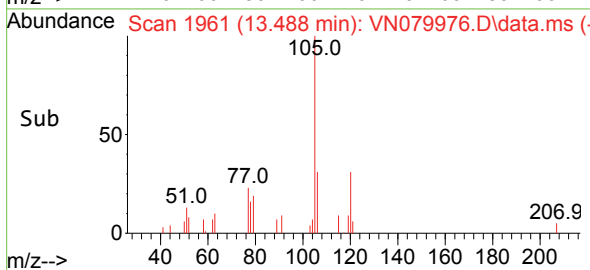
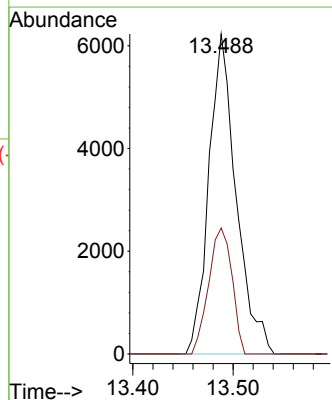
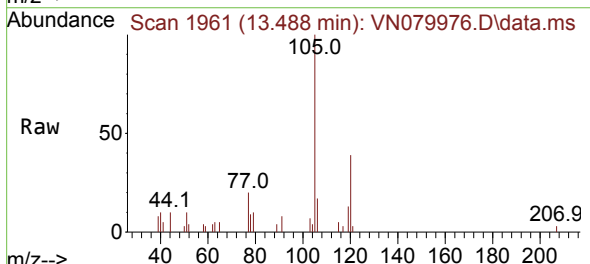
Instrument :
MSVOA_N
ClientSampleId :
1079

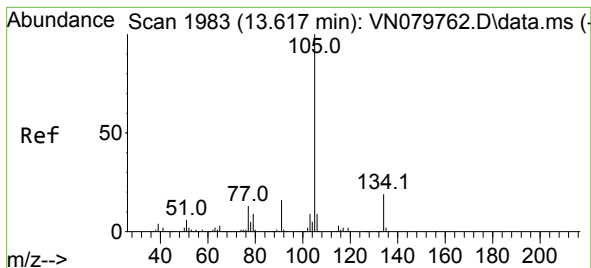
Tgt Ion: 75 Resp: 144567
Ion Ratio Lower Upper
75 100
53 0.2 67.4 101.2#
89 0.0 38.8 58.2#



#84
1,2,4-Trimethylbenzene
Concen: 0.789 ug/l
RT: 13.488 min Scan# 1961
Delta R.T. 0.006 min
Lab File: VN079976.D
Acq: 07 Nov 2023 19:46

Tgt Ion: 105 Resp: 11774
Ion Ratio Lower Upper
105 100
120 33.7 22.0 66.0





#85

sec-Butylbenzene

Concen: 0.685 ug/l

RT: 13.488 min Scan# 1983

Delta R.T. -0.129 min

Lab File: VN079976.D

Acq: 07 Nov 2023 19:46

Instrument :

MSVOA_N

ClientSampleId :

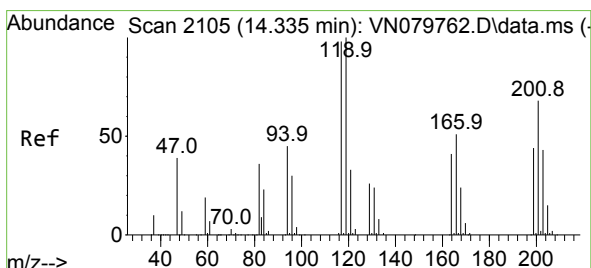
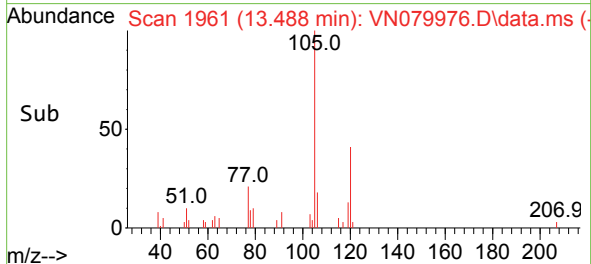
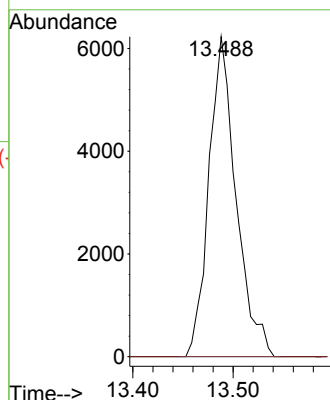
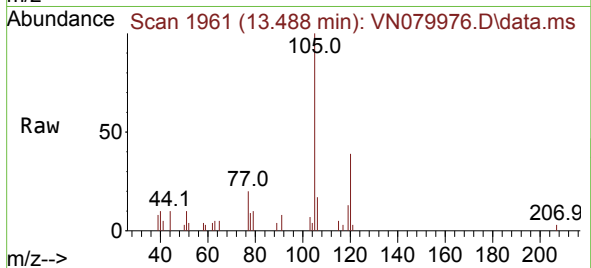
1079

Tgt Ion:105 Resp: 11774

Ion Ratio Lower Upper

105 100

134 0.0 9.8 29.3#



#90

Hexachloroethane

Concen: 0.228 ug/l

RT: 14.459 min Scan# 2126

Delta R.T. 0.124 min

Lab File: VN079976.D

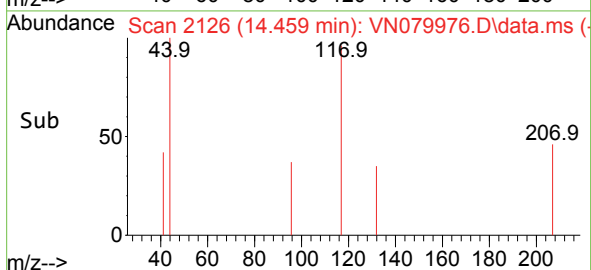
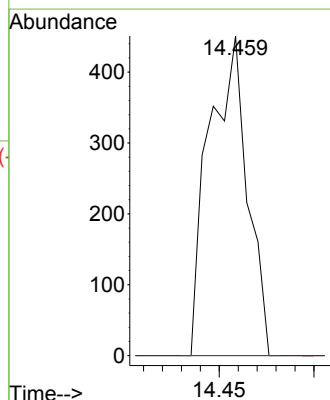
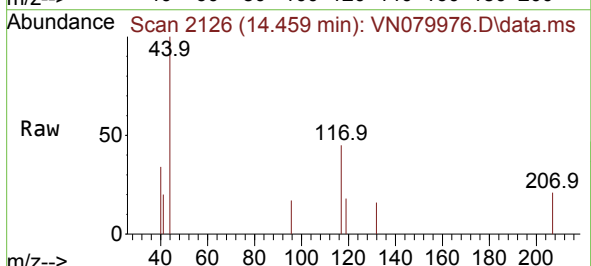
Acq: 07 Nov 2023 19:46

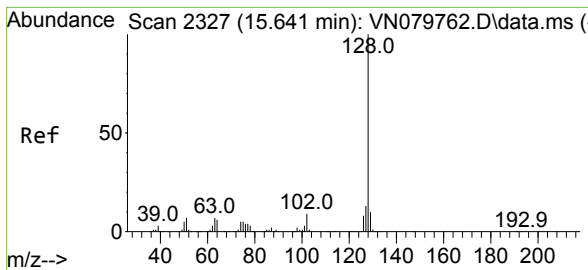
Tgt Ion:117 Resp: 633

Ion Ratio Lower Upper

117 100

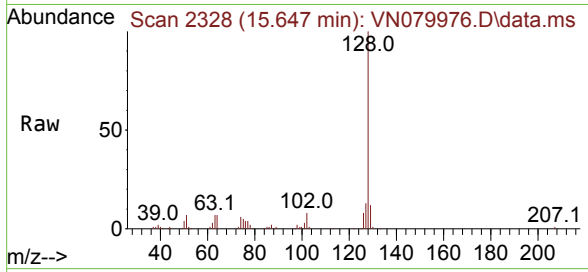
201 0.0 29.3 88.0#





#95
Naphthalene
Concen: 15.593 ug/l
RT: 15.647 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN079976.D
Acq: 07 Nov 2023 19:46

Instrument :
MSVOA_N
ClientSampleId :
1079



Tgt Ion:128 Resp: 210632
Ion Ratio Lower Upper
128 100
127 13.4 10.0 15.0
129 11.4 8.7 13.1

