

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032023\
 Data File : VN077076.D
 Acq On : 20 Mar 2023 18:18
 Operator : JC\MD
 Sample : IBLK
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

Quant Time: Mar 21 05:40:24 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031723W.M
 Quant Title : SW846 8260
 QLast Update : Mon Mar 20 08:50:30 2023
 Response via : Initial Calibration

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

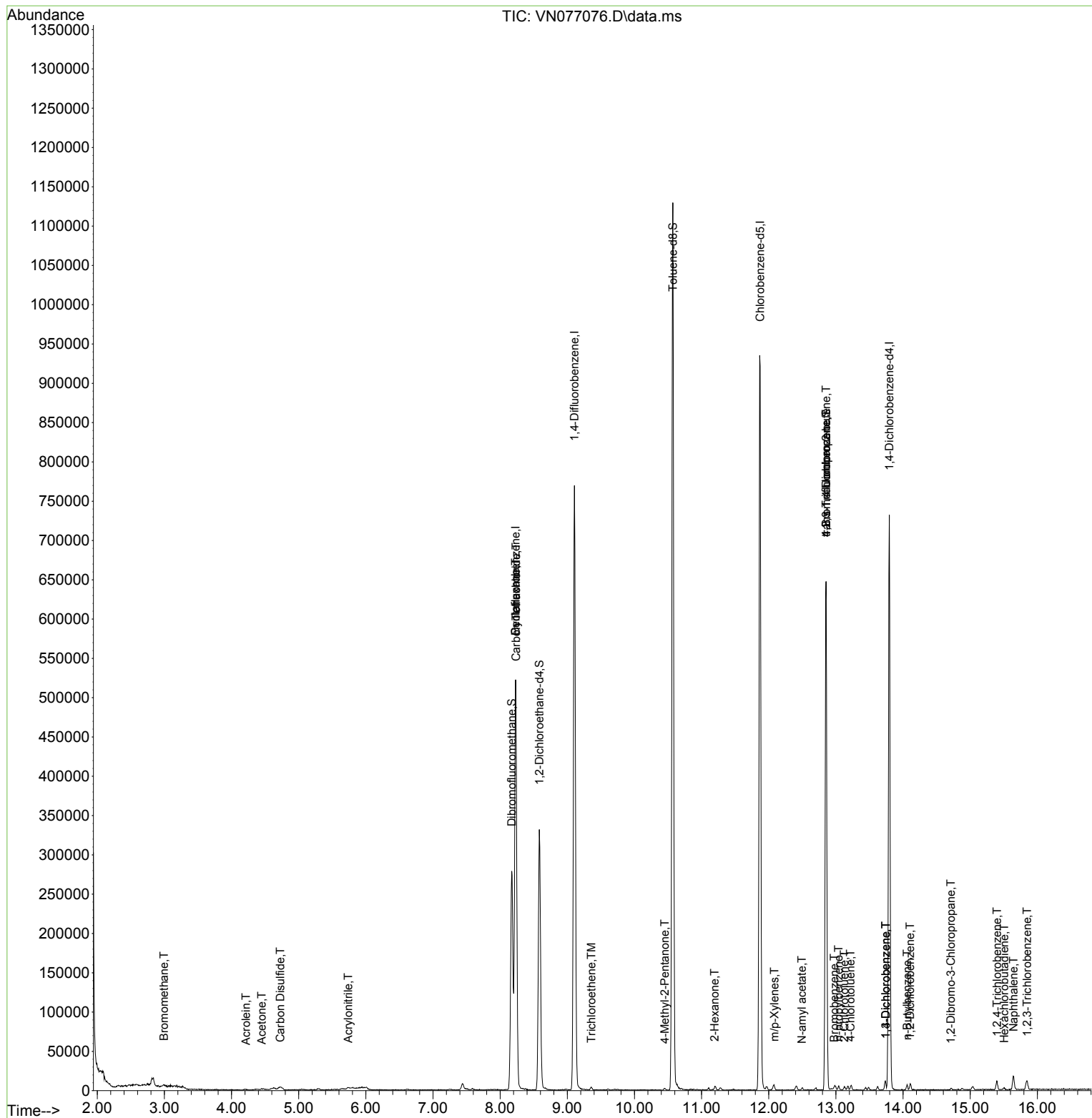
Internal Standards						
1) Pentafluorobenzene	8.231	168	363638	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	650578	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.872	117	545968	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	190978	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.584	65	269897	46.466	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	92.940%		
35) Dibromofluoromethane	8.172	113	205463	45.096	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	90.200%		
50) Toluene-d8	10.572	98	774339	47.579	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	95.160%		
62) 4-Bromofluorobenzene	12.854	95	239550	41.654	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	83.300%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.137	85	155	Below Cal	#	42
5) Bromomethane	2.996	94	1863	0.697	ug/l #	34
13) Acrolein	4.213	56	873	0.834	ug/l #	80
15) Acrylonitrile	5.737	53	922	0.324	ug/l #	18
16) Acetone	4.449	43	1004	0.388	ug/l #	43
17) Carbon Disulfide	4.725	76	5149	0.400	ug/l #	77
31) Cyclohexane	8.231	56	9151	0.963	ug/l #	1
38) Carbon Tetrachloride	8.236	117	40264	5.809	ug/l #	15
44) Trichloroethene	9.360	130	1103	0.223	ug/l	79
51) 4-Methyl-2-Pentanone	10.454	43	1666	0.225	ug/l #	77
59) 2-Hexanone	11.195	43	3845	0.716	ug/l	92
68) m/p-Xylenes	12.083	106	2341	0.277	ug/l	100
74) N-amyl acetate	12.495	43	1594	0.215	ug/l #	91
76) 1,2,3-Trichloropropane	12.854	75	127007	25.710	ug/l #	1
77) Bromobenzene	12.977	156	1344	0.351	ug/l	79
78) n-propylbenzene	13.042	91	4905	0.248	ug/l	93
79) 2-Chlorotoluene	13.124	91	3376	0.268	ug/l	91
81) trans-1,4-Dichloro-2-b...	12.854	75	127007	70.769	ug/l #	10
82) 4-Chlorotoluene	13.219	91	4636	0.387	ug/l	92
87) 1,3-Dichlorobenzene	13.742	146	3186	0.440	ug/l	91
88) 1,4-Dichlorobenzene	13.742	146	3186	0.442	ug/l	92
89) n-Butylbenzene	14.060	91	4422	0.368	ug/l	90
91) 1,2-Dichlorobenzene	14.107	146	3027	0.419	ug/l	90
92) 1,2-Dibromo-3-Chloropr...	14.713	75	496	0.432	ug/l	91
93) 1,2,4-Trichlorobenzene	15.401	180	3925	1.202	ug/l	96
94) Hexachlorobutadiene	15.507	225	590	0.328	ug/l #	77
95) Naphthalene	15.648	128	16155	3.136	ug/l	97
96) 1,2,3-Trichlorobenzene	15.848	180	4684	1.430	ug/l	98

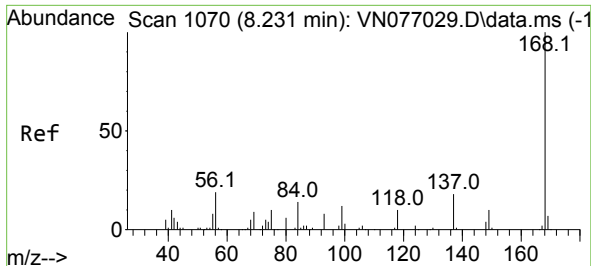
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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IBLK

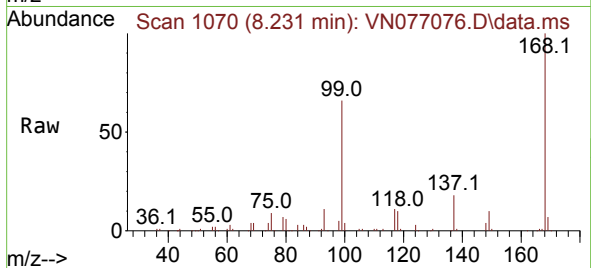
Quant Time: Mar 21 05:40:24 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031723W.M
Quant Title : SW846 8260
QLast Update : Mon Mar 20 08:50:30 2023
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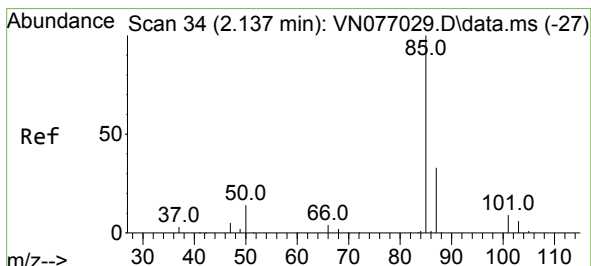
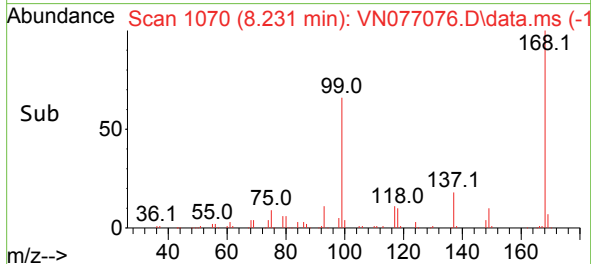
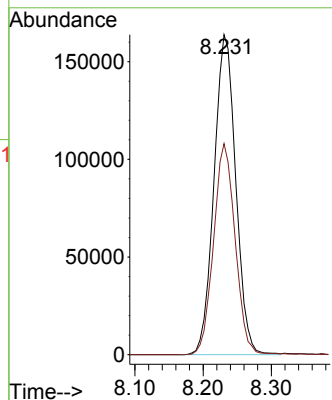


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.231 min Scan# 1070
Delta R.T. -0.000 min
Lab File: VN077076.D
Acq: 20 Mar 2023 18:18

Instrument :
MSVOA_N
ClientSampleId :
IBLK

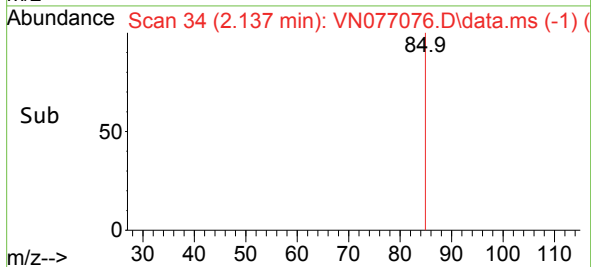
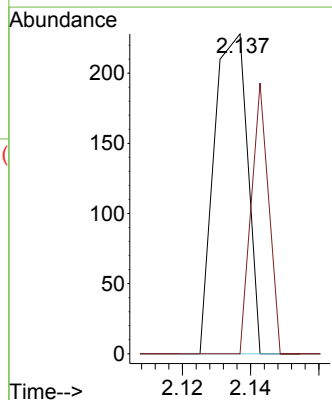
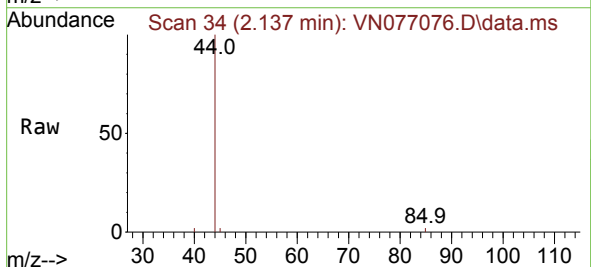


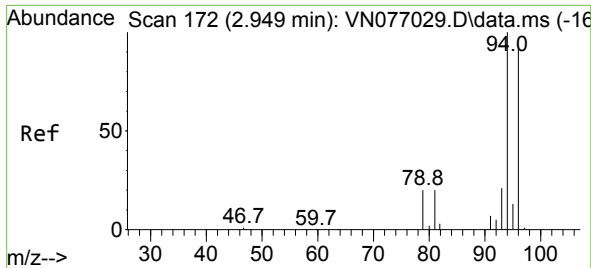
Tgt Ion:168 Resp: 363638
Ion Ratio Lower Upper
168 100
99 66.0 53.9 80.9



#2
Dichlorodifluoromethane
Concen: Below Cal
RT: 2.137 min Scan# 34
Delta R.T. -0.000 min
Lab File: VN077076.D
Acq: 20 Mar 2023 18:18

Tgt Ion: 85 Resp: 155
Ion Ratio Lower Upper
85 100
87 0.0 16.4 49.2#

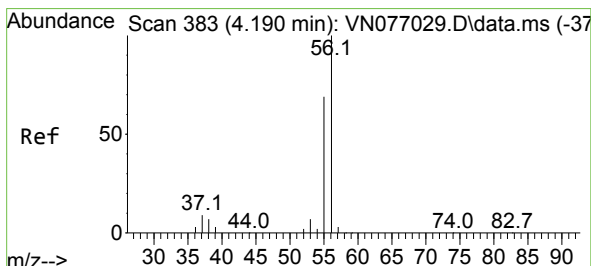
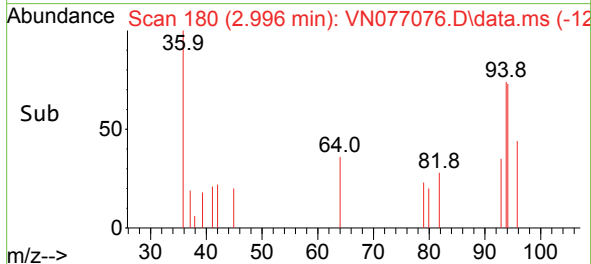
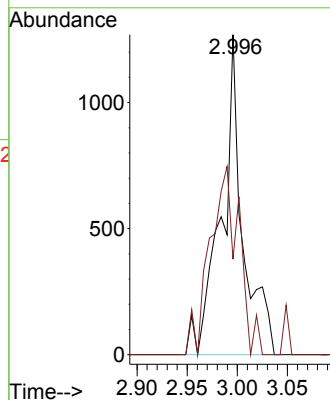
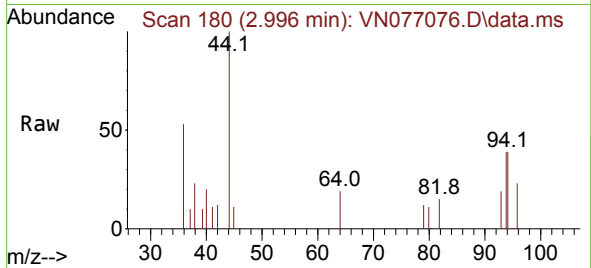




#5
Bromomethane
Concen: 0.697 ug/l
RT: 2.996 min Scan# 11
Delta R.T. 0.047 min
Lab File: VN077076.D
Acq: 20 Mar 2023 18:18

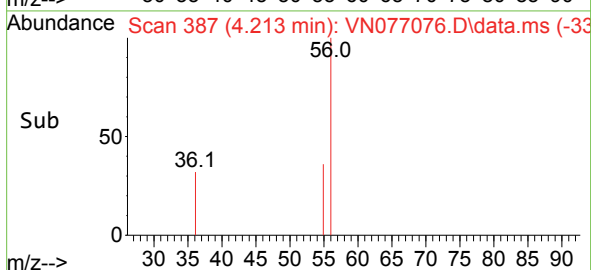
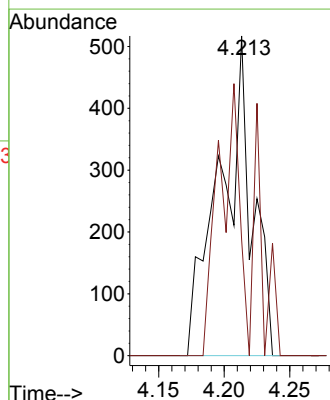
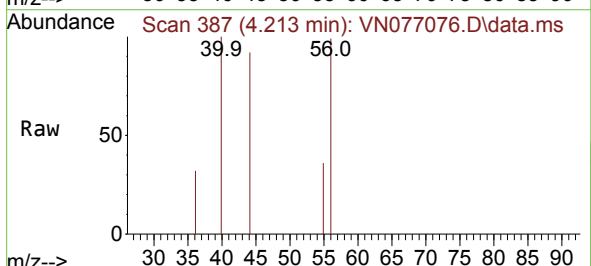
Instrument :
MSVOA_N
ClientSampleId :
IBLK

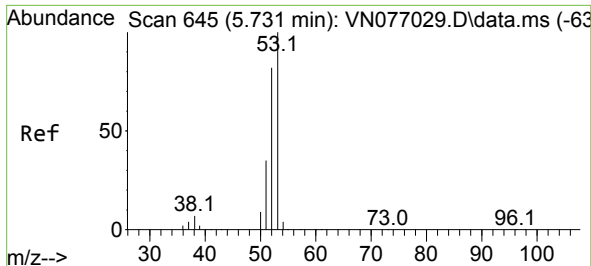
Tgt Ion: 94 Resp: 1863
Ion Ratio Lower Upper
94 100
96 29.9 74.1 111.1#



#13
Acrolein
Concen: 0.834 ug/l
RT: 4.213 min Scan# 387
Delta R.T. 0.023 min
Lab File: VN077076.D
Acq: 20 Mar 2023 18:18

Tgt Ion: 56 Resp: 873
Ion Ratio Lower Upper
56 100
55 55.0 57.0 85.6#

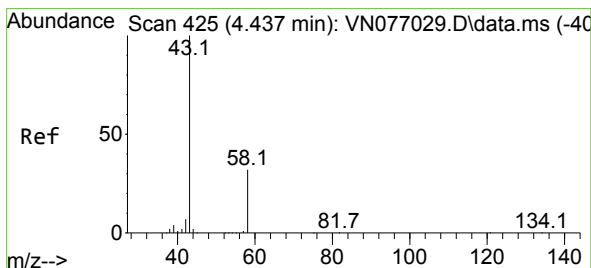
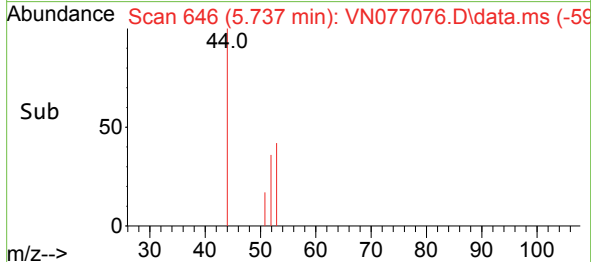
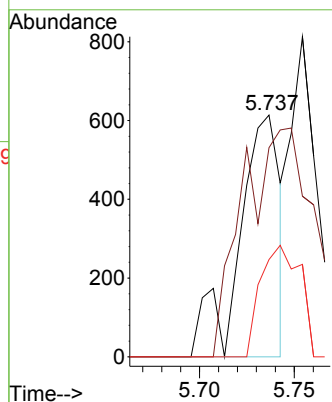
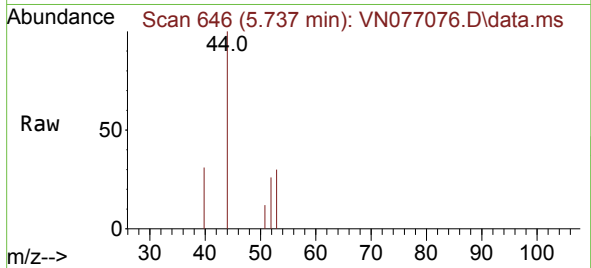




#15
Acrylonitrile
Concen: 0.324 ug/l
RT: 5.737 min Scan# 645
Delta R.T. 0.006 min
Lab File: VN077076.D
Acq: 20 Mar 2023 18:18

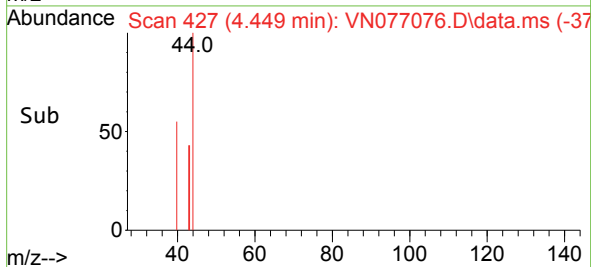
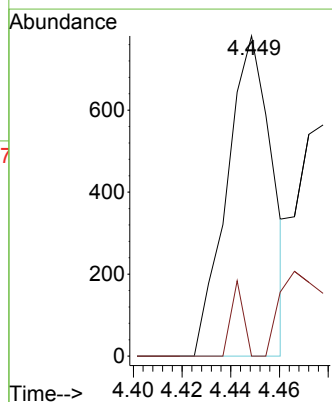
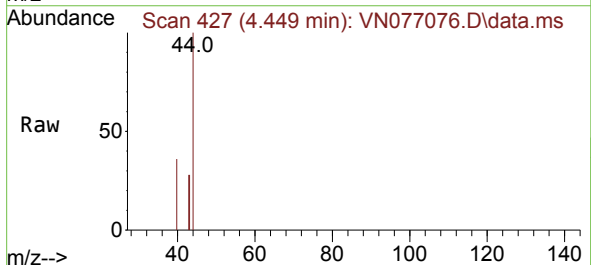
Instrument :
MSVOA_N
ClientSampleId :
IBLK

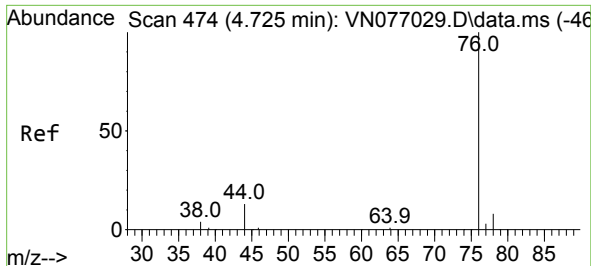
Tgt Ion: 53 Resp: 922
Ion Ratio Lower Upper
53 100
52 0.0 64.6 97.0#
51 0.0 28.3 42.5#



#16
Acetone
Concen: 0.388 ug/l
RT: 4.449 min Scan# 427
Delta R.T. 0.011 min
Lab File: VN077076.D
Acq: 20 Mar 2023 18:18

Tgt Ion: 43 Resp: 1004
Ion Ratio Lower Upper
43 100
58 0.0 25.4 38.0#

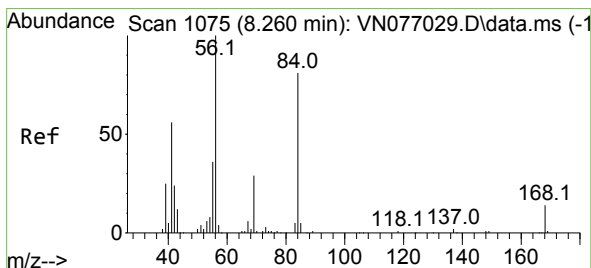
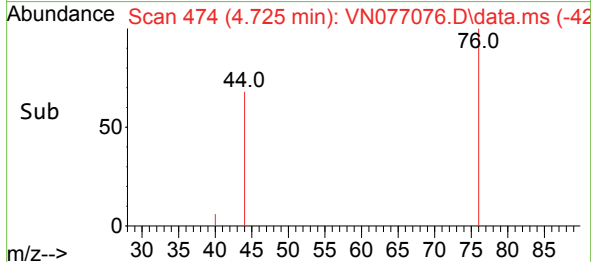
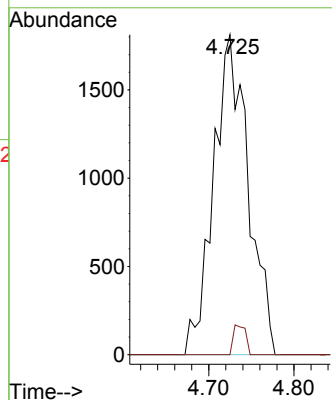
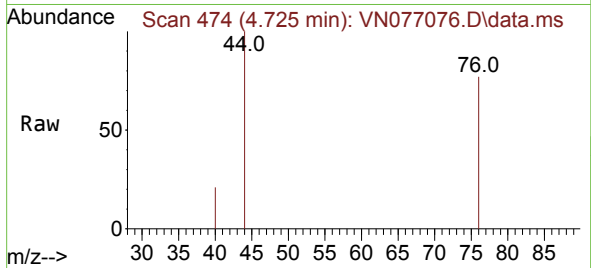




#17
Carbon Disulfide
Concen: 0.400 ug/l
RT: 4.725 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN077076.D
Acq: 20 Mar 2023 18:18

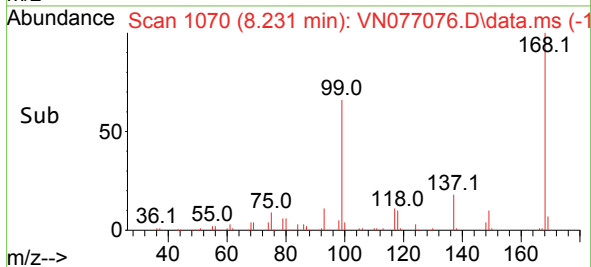
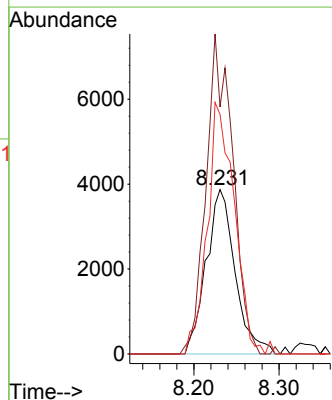
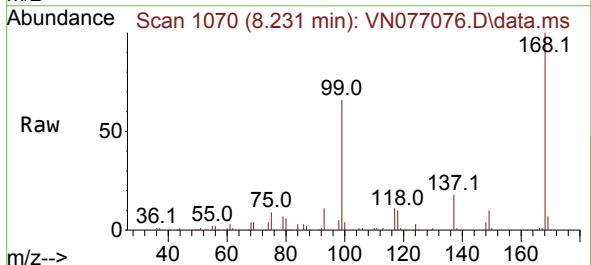
Instrument :
MSVOA_N
ClientSampleId :
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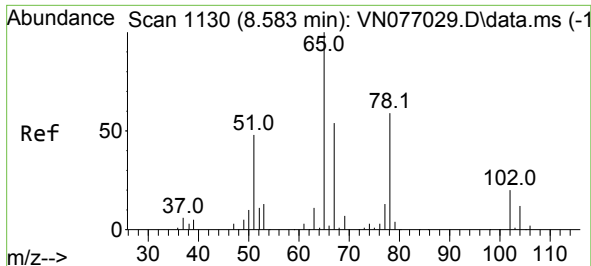
Tgt Ion: 76 Resp: 5149
Ion Ratio Lower Upper
76 100
78 0.0 6.6 10.0#



#31
Cyclohexane
Concen: 0.963 ug/l
RT: 8.231 min Scan# 1070
Delta R.T. -0.029 min
Lab File: VN077076.D
Acq: 20 Mar 2023 18:18

Tgt Ion: 56 Resp: 9151
Ion Ratio Lower Upper
56 100
69 150.3 22.8 34.2#
84 145.8 64.7 97.1#





#33

1,2-Dichloroethane-d4

Concen: 46.466 ug/l

RT: 8.584 min Scan# 1130

Delta R.T. 0.001 min

Lab File: VN077076.D

Acq: 20 Mar 2023 18:18

Instrument :

MSVOA_N

ClientSampleId :

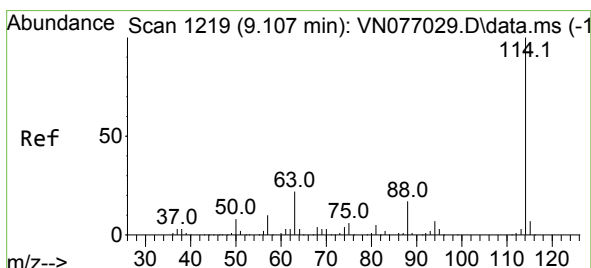
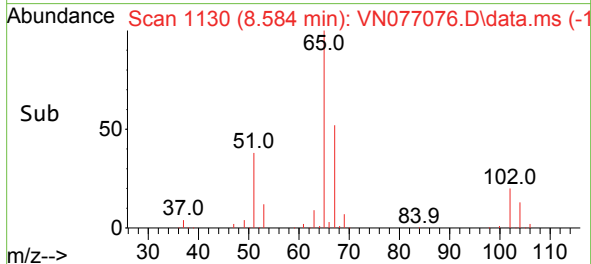
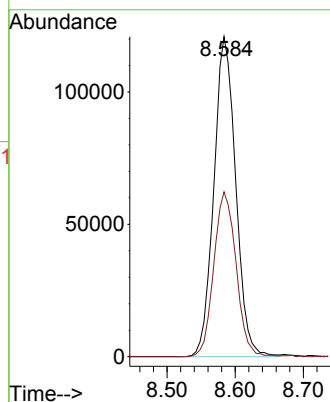
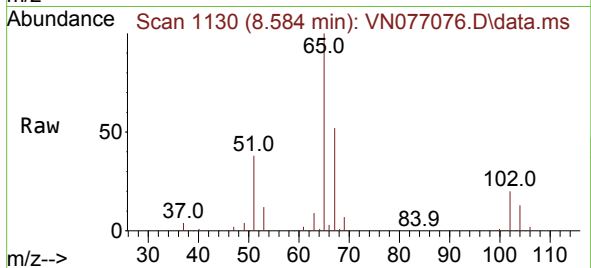
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Tgt Ion: 65 Resp: 269897

Ion Ratio Lower Upper

65 100

67 52.5 0.0 105.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.107 min Scan# 1219

Delta R.T. 0.000 min

Lab File: VN077076.D

Acq: 20 Mar 2023 18:18

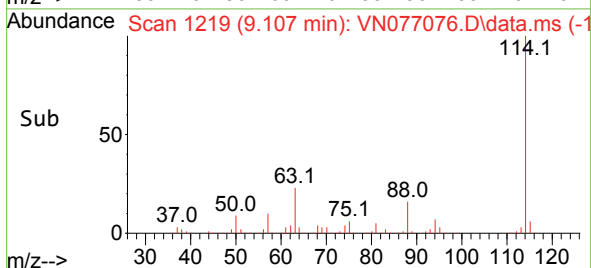
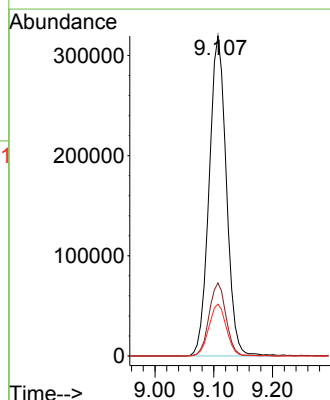
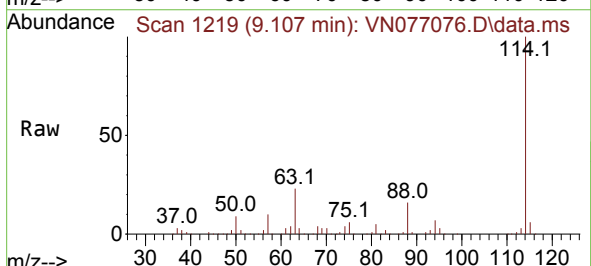
Tgt Ion: 114 Resp: 650578

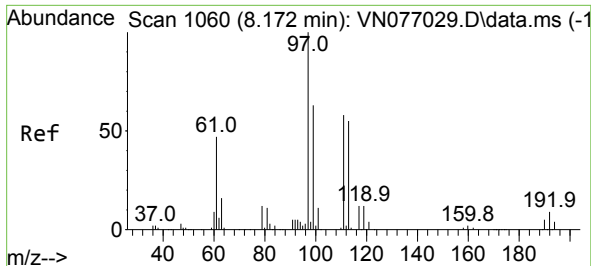
Ion Ratio Lower Upper

114 100

63 22.8 0.0 44.6

88 16.2 0.0 33.8

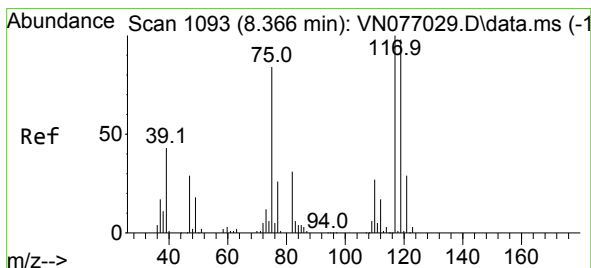
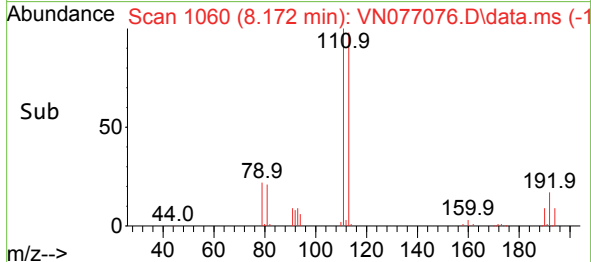
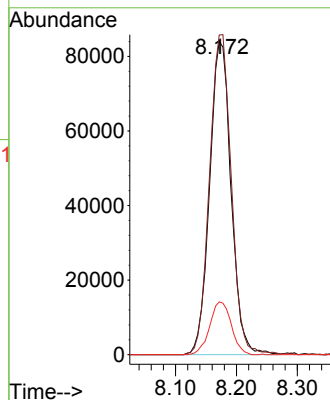
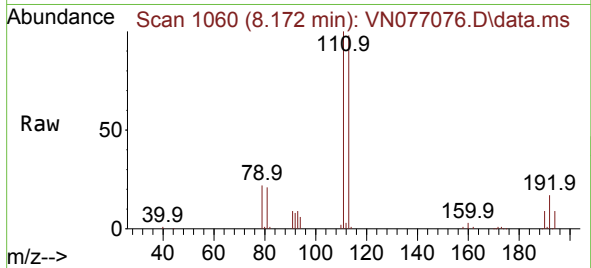




#35
Dibromofluoromethane
Concen: 45.096 ug/l
RT: 8.172 min Scan# 1060
Delta R.T. 0.000 min
Lab File: VN077076.D
Acq: 20 Mar 2023 18:18

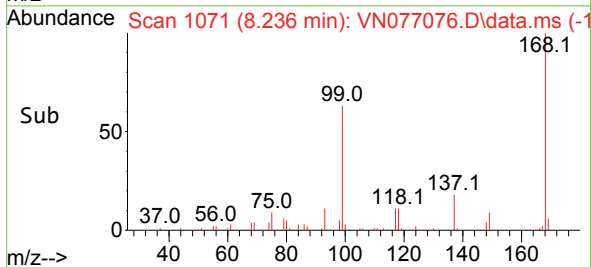
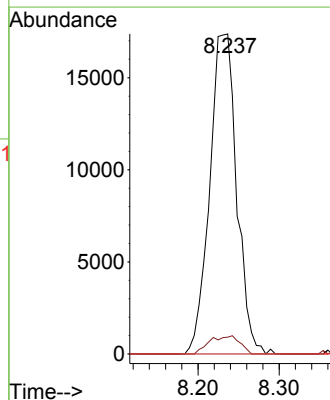
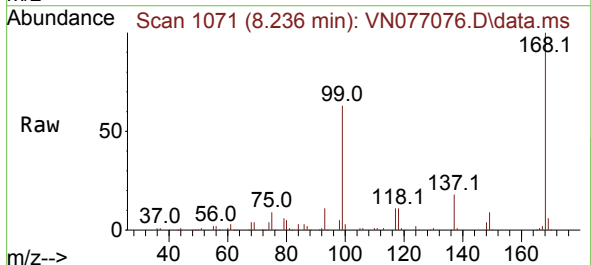
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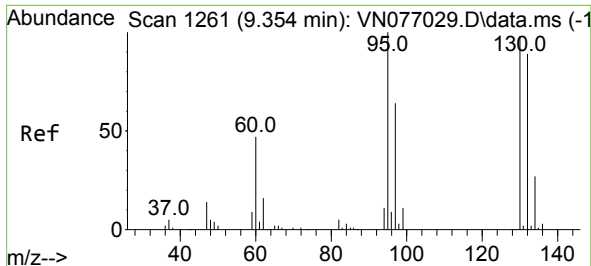
Tgt Ion:113 Resp: 205463
Ion Ratio Lower Upper
113 100
111 103.6 82.2 123.2
192 17.0 13.0 19.6



#38
Carbon Tetrachloride
Concen: 5.809 ug/l
RT: 8.236 min Scan# 1071
Delta R.T. -0.129 min
Lab File: VN077076.D
Acq: 20 Mar 2023 18:18

Tgt Ion:117 Resp: 40264
Ion Ratio Lower Upper
117 100
119 5.2 78.2 117.2#
121 0.0 23.2 34.8#

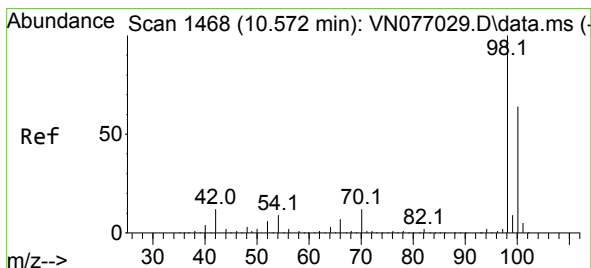
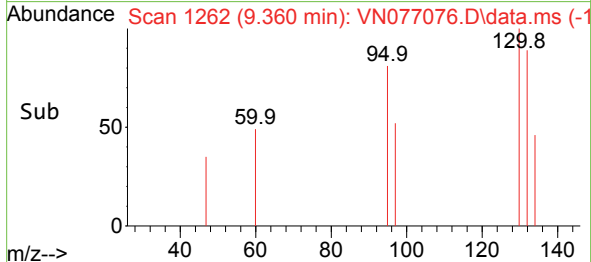
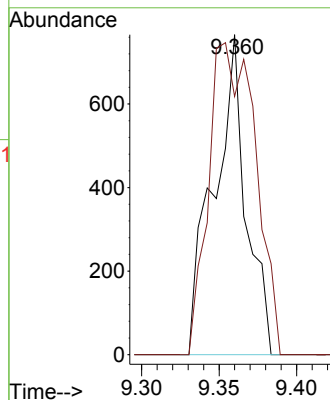
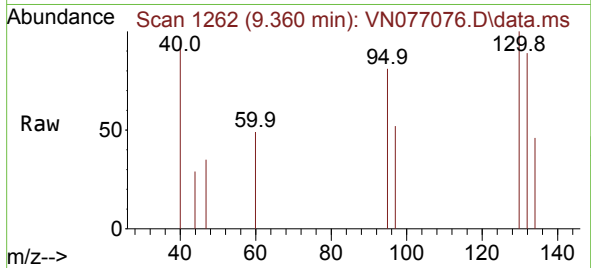




#44
Trichloroethene
Concen: 0.223 ug/l
RT: 9.360 min Scan# 1103
Delta R.T. 0.006 min
Lab File: VN077076.D
Acq: 20 Mar 2023 18:18

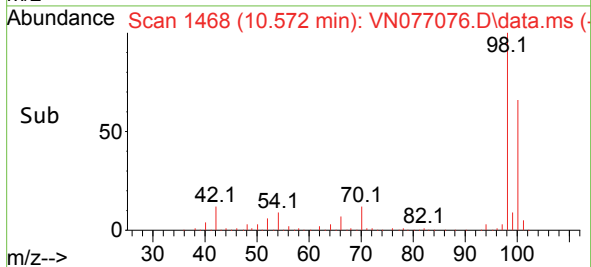
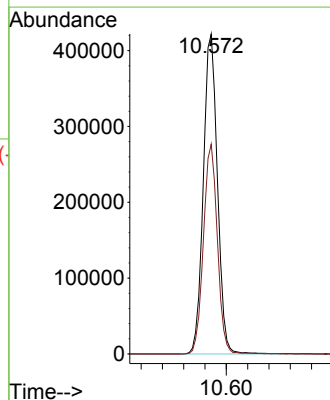
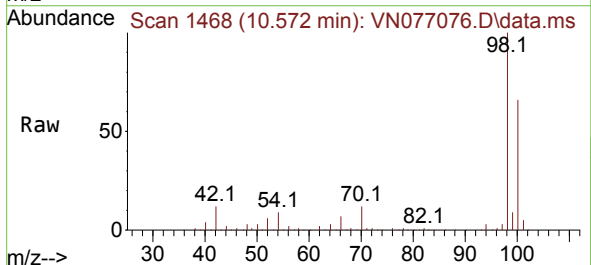
Instrument :
MSVOA_N
ClientSampleId :
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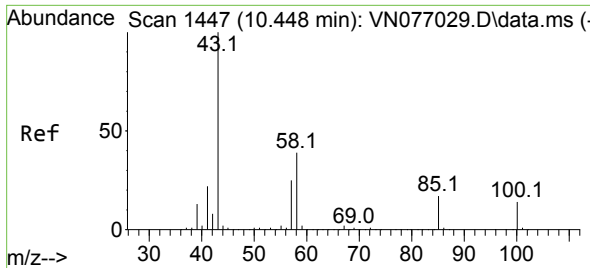
Tgt Ion:130 Resp: 1103
Ion Ratio Lower Upper
130 100
95 80.7 0.0 204.4



#50
Toluene-d8
Concen: 47.579 ug/l
RT: 10.572 min Scan# 1468
Delta R.T. 0.000 min
Lab File: VN077076.D
Acq: 20 Mar 2023 18:18

Tgt Ion: 98 Resp: 774339
Ion Ratio Lower Upper
98 100
100 64.8 51.6 77.4

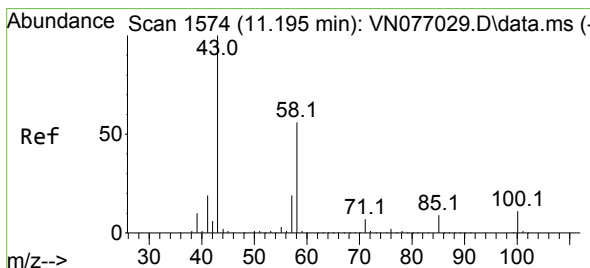
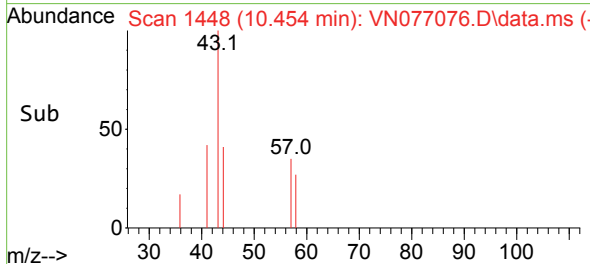
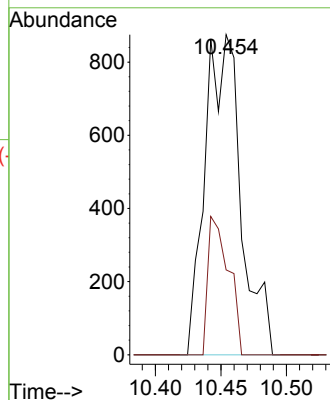
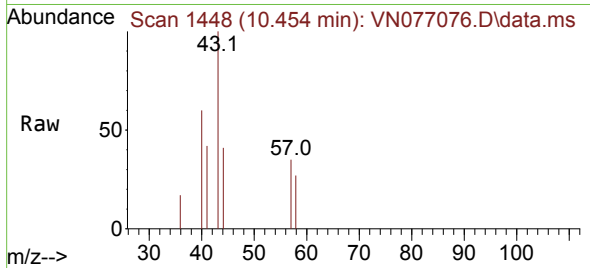




#51
4-Methyl-2-Pentanone
Concen: 0.225 ug/l
RT: 10.454 min Scan# 1448
Delta R.T. 0.006 min
Lab File: VN077076.D
Acq: 20 Mar 2023 18:18

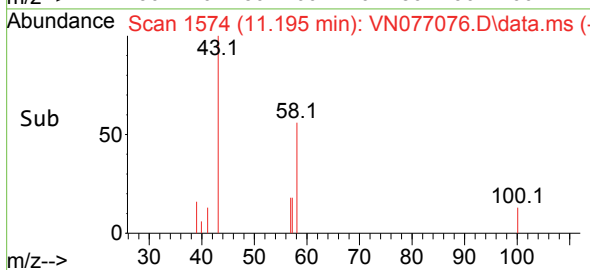
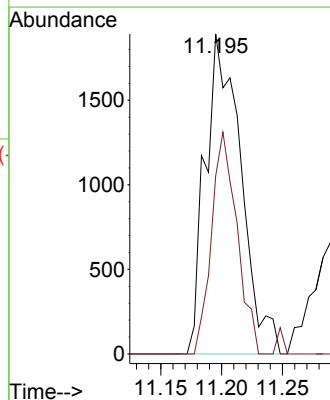
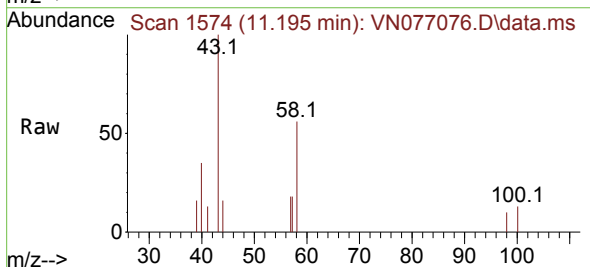
Instrument :
MSVOA_N
ClientSampleId :
IBLK

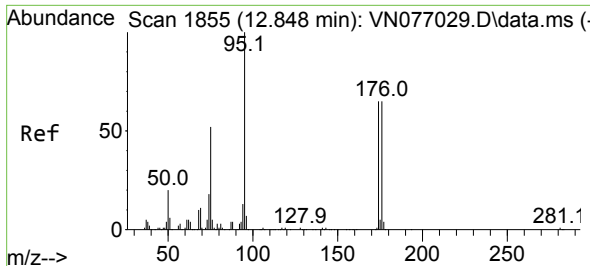
Tgt Ion: 43 Resp: 1666
Ion Ratio Lower Upper
43 100
58 24.9 31.1 46.7#



#59
2-Hexanone
Concen: 0.716 ug/l
RT: 11.195 min Scan# 1574
Delta R.T. 0.000 min
Lab File: VN077076.D
Acq: 20 Mar 2023 18:18

Tgt Ion: 43 Resp: 3845
Ion Ratio Lower Upper
43 100
58 49.7 27.7 83.1

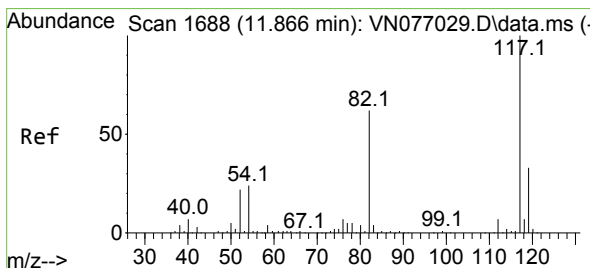
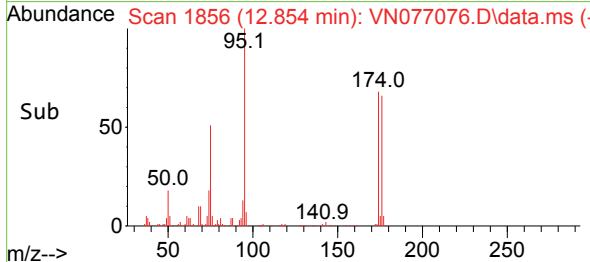
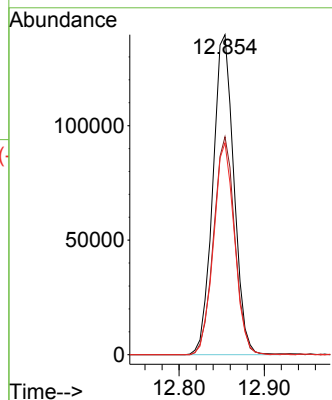
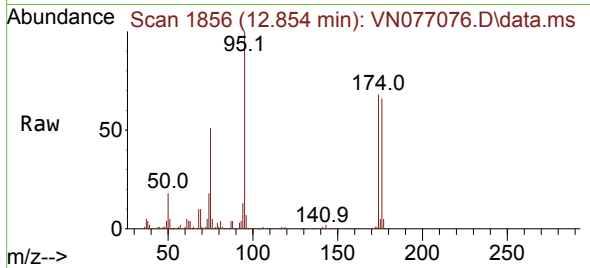




#62
4-Bromofluorobenzene
Concen: 41.654 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.006 min
Lab File: VN077076.D
Acq: 20 Mar 2023 18:18

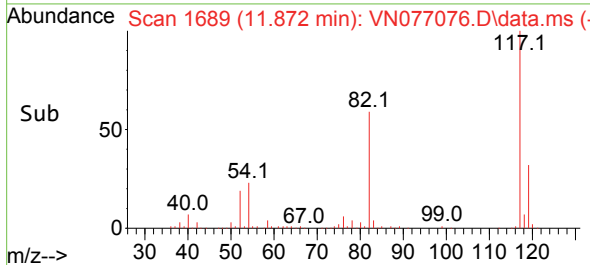
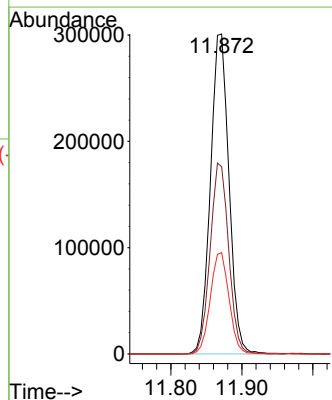
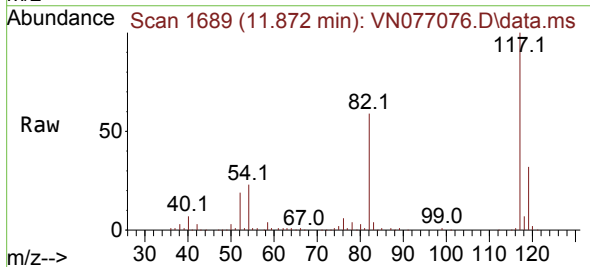
Instrument :
MSVOA_N
ClientSampleId :
IBLK

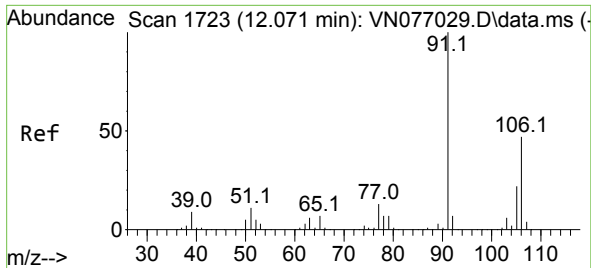
Tgt Ion: 95 Resp: 239550
Ion Ratio Lower Upper
95 100
174 68.7 0.0 136.6
176 66.0 0.0 130.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.872 min Scan# 1689
Delta R.T. 0.006 min
Lab File: VN077076.D
Acq: 20 Mar 2023 18:18

Tgt Ion: 117 Resp: 545968
Ion Ratio Lower Upper
117 100
82 58.5 49.4 74.0
119 31.7 26.5 39.7

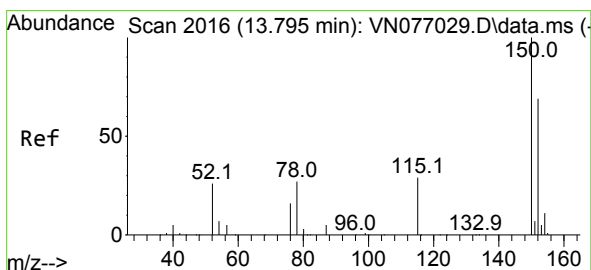
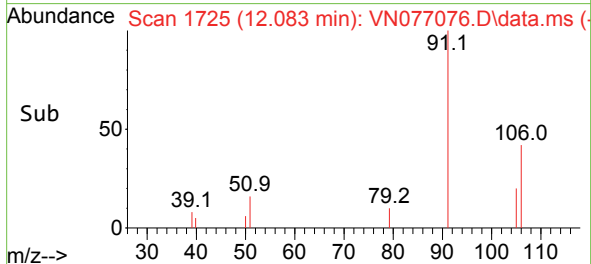
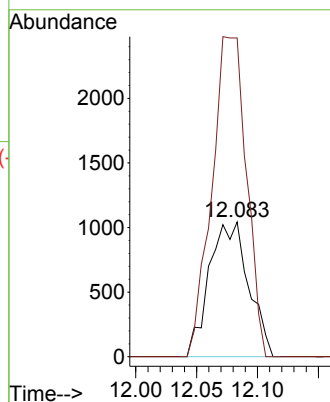
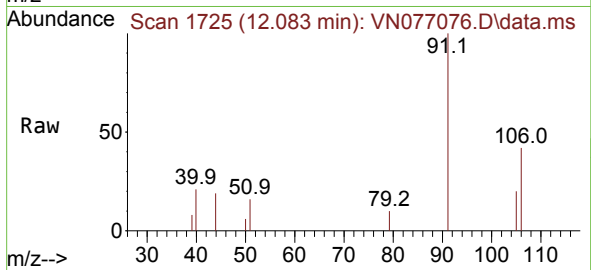




#68
m/p-Xylenes
Concen: 0.277 ug/l
RT: 12.083 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN077076.D
Acq: 20 Mar 2023 18:18

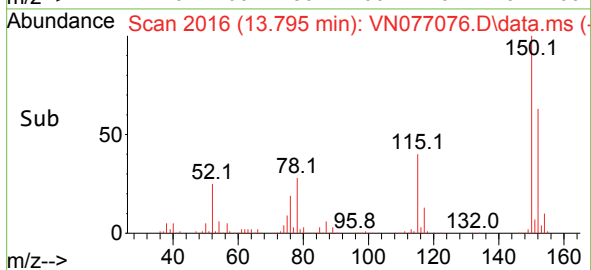
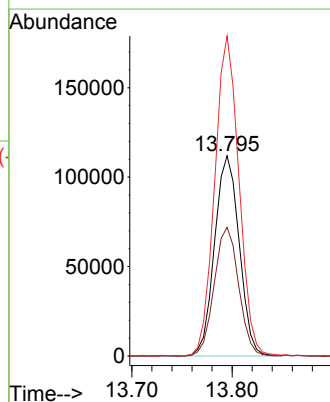
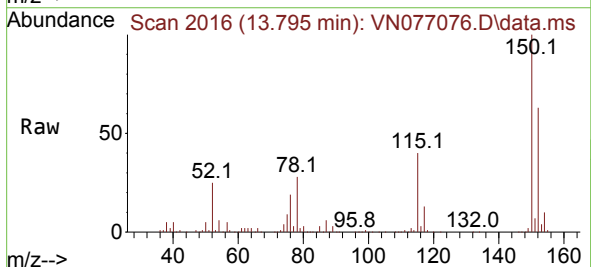
Instrument :
MSVOA_N
ClientSampleId :
IBLK

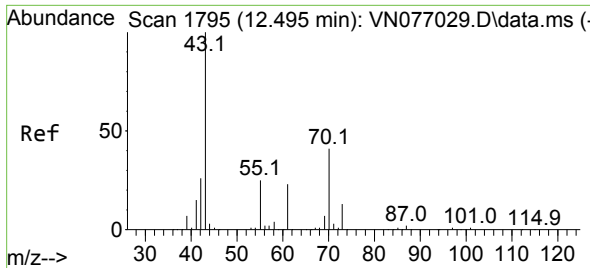
Tgt Ion:106 Resp: 2341
Ion Ratio Lower Upper
106 100
91 209.6 168.0 252.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.795 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN077076.D
Acq: 20 Mar 2023 18:18

Tgt Ion:152 Resp: 190978
Ion Ratio Lower Upper
152 100
115 63.7 31.9 95.7
150 157.1 0.0 348.0

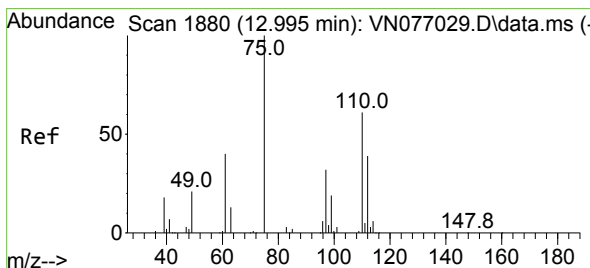
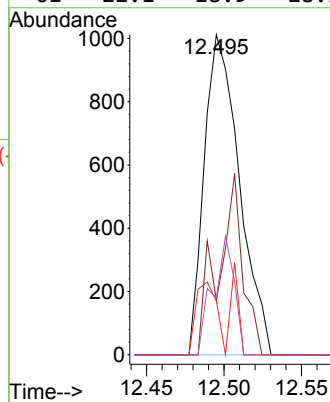
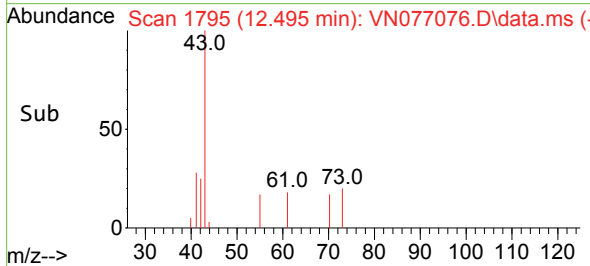
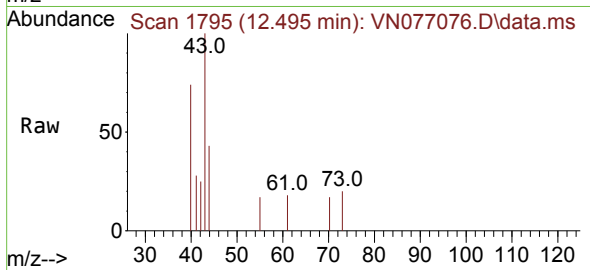




#74
N-ethyl acetate
Concen: 0.215 ug/l
RT: 12.495 min Scan# 1795
Delta R.T. 0.000 min
Lab File: VN077076.D
Acq: 20 Mar 2023 18:18

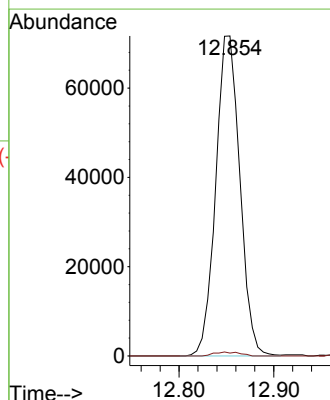
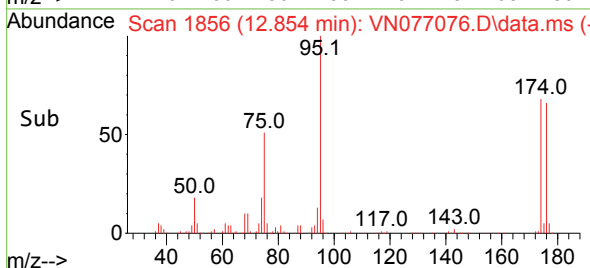
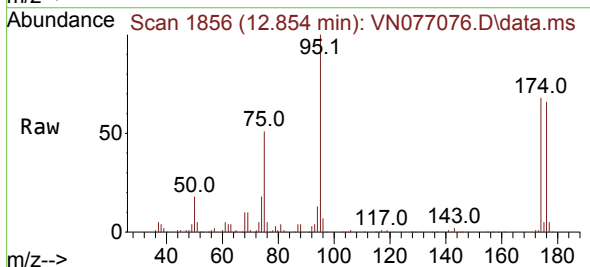
Instrument :
MSVOA_N
ClientSampleId :
IBLK

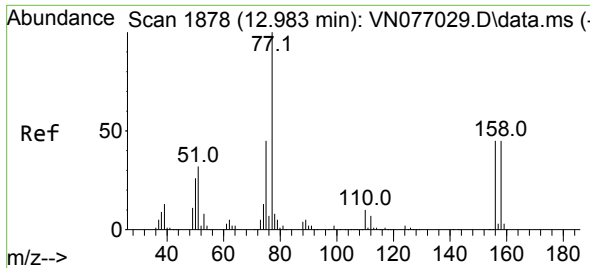
Tgt Ion: 43	Resp: 1594
Ion Ratio	Lower Upper
43 100	
70 39.6	33.6 50.4
55 13.5	20.3 30.5#
61 22.1	18.9 28.3



#76
1,2,3-Trichloropropane
Concen: 25.710 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. -0.141 min
Lab File: VN077076.D
Acq: 20 Mar 2023 18:18

Tgt Ion: 75	Resp: 127007
Ion Ratio	Lower Upper
75 100	
77 1.3	107.3 322.0#

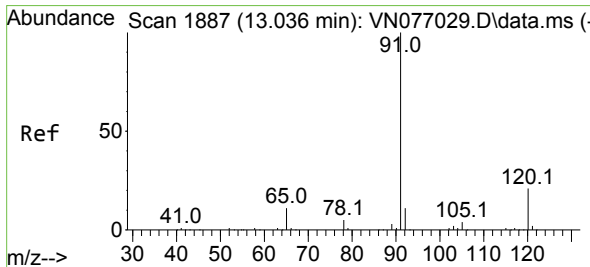
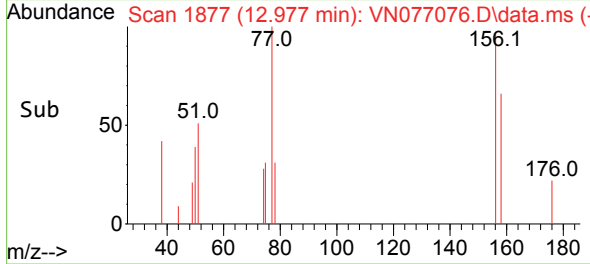
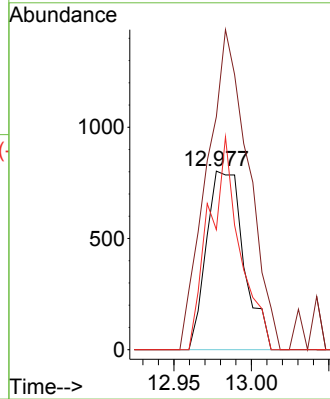
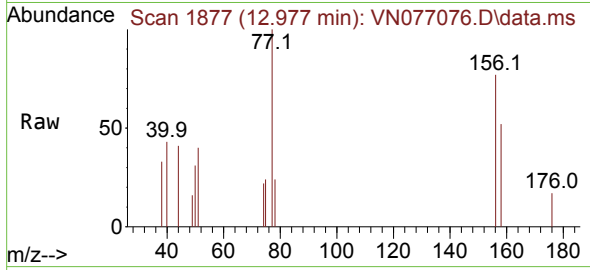




#77
Bromobenzene
Concen: 0.351 ug/l
RT: 12.977 min Scan# 1877
Delta R.T. -0.006 min
Lab File: VN077076.D
Acq: 20 Mar 2023 18:18

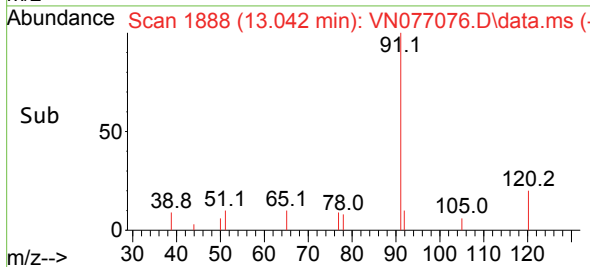
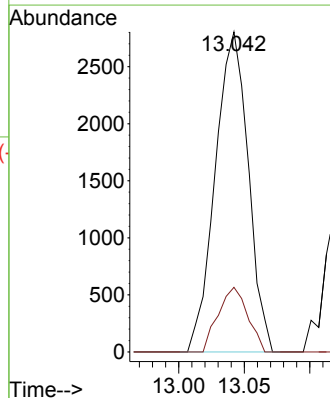
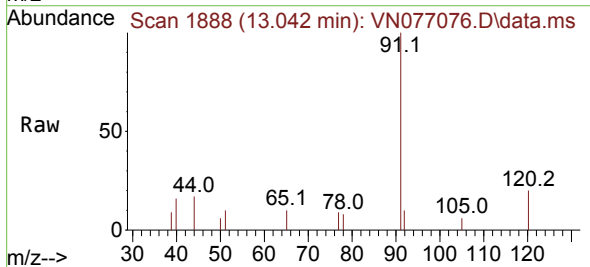
Instrument :
MSVOA_N
ClientSampleId :
IBLK

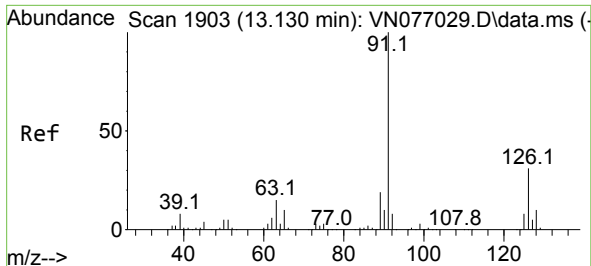
Tgt Ion:156 Resp: 1344
Ion Ratio Lower Upper
156 100
77 199.3 124.8 374.3
158 98.5 48.6 145.9



#78
n-propylbenzene
Concen: 0.248 ug/l
RT: 13.042 min Scan# 1888
Delta R.T. 0.006 min
Lab File: VN077076.D
Acq: 20 Mar 2023 18:18

Tgt Ion: 91 Resp: 4905
Ion Ratio Lower Upper
91 100
120 18.0 10.8 32.3

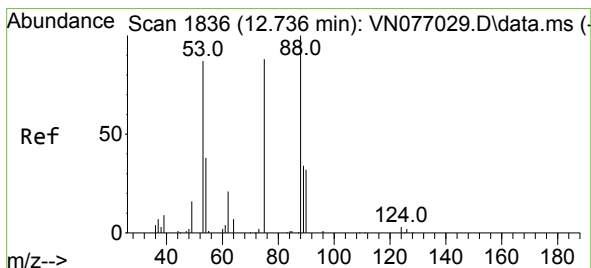
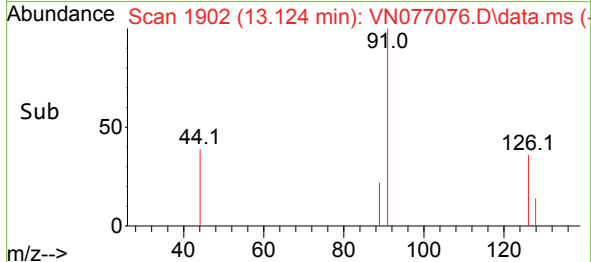
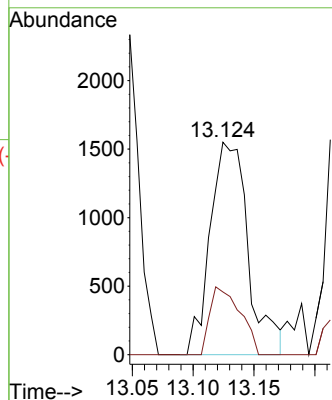
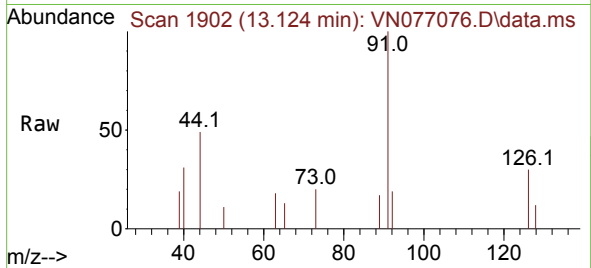




#79
2-Chlorotoluene
Concen: 0.268 ug/l
RT: 13.124 min Scan# 1902
Delta R.T. -0.006 min
Lab File: VN077076.D
Acq: 20 Mar 2023 18:18

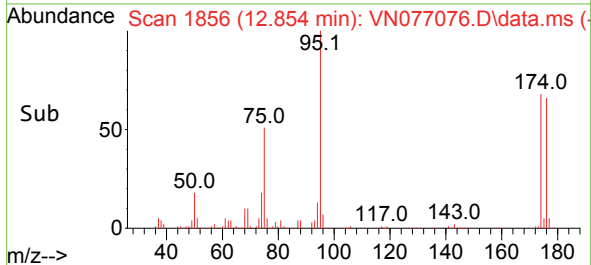
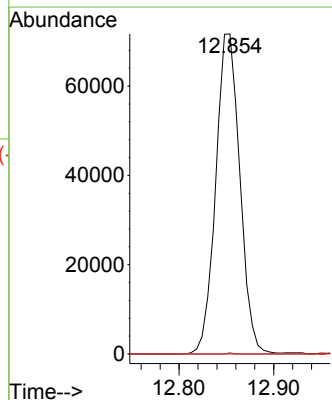
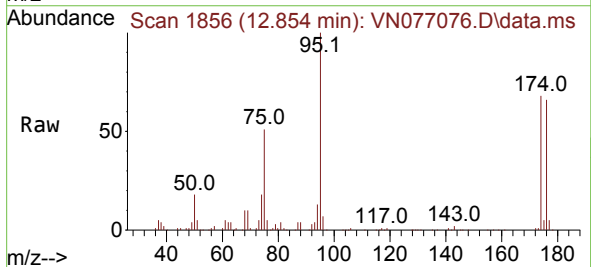
Instrument :
MSVOA_N
ClientSampleId :
IBLK

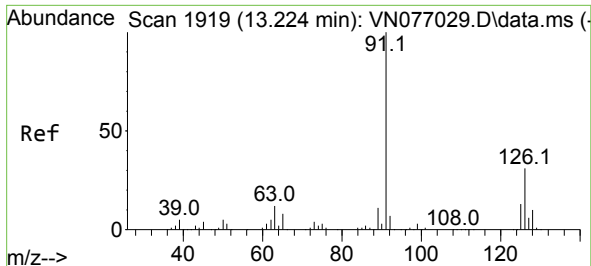
Tgt Ion: 91 Resp: 3376
Ion Ratio Lower Upper
91 100
126 25.4 15.2 45.5



#81
trans-1,4-Dichloro-2-butene
Concen: 70.769 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.118 min
Lab File: VN077076.D
Acq: 20 Mar 2023 18:18

Tgt Ion: 75 Resp: 127007
Ion Ratio Lower Upper
75 100
53 0.1 80.8 121.2#
89 0.0 34.2 51.4#

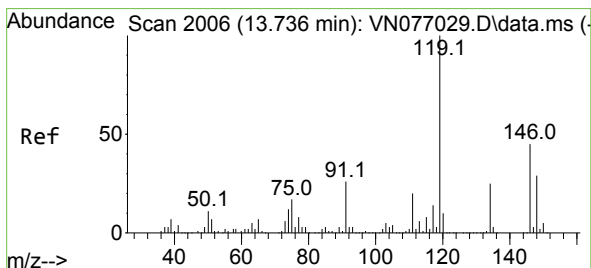
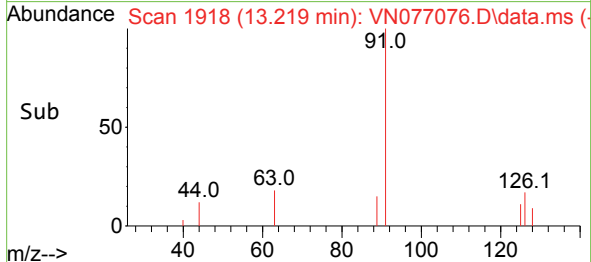
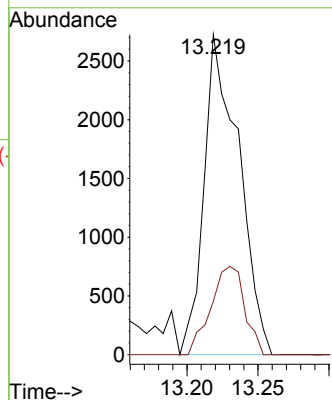
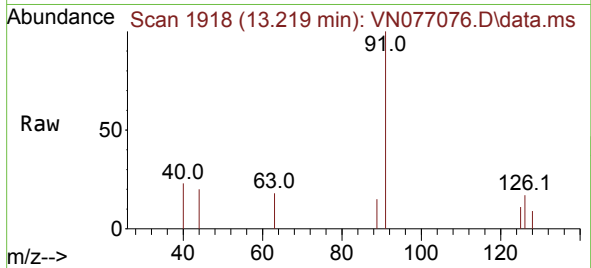




#82
4-Chlorotoluene
Concen: 0.387 ug/l
RT: 13.219 min Scan# 1919
Delta R.T. -0.006 min
Lab File: VN077076.D
Acq: 20 Mar 2023 18:18

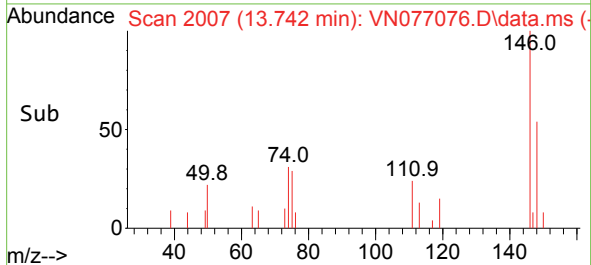
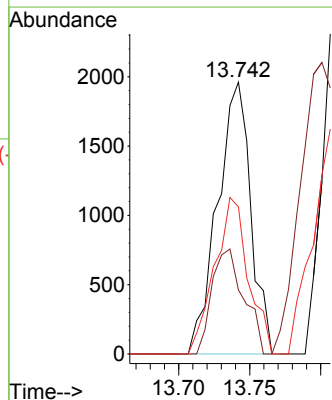
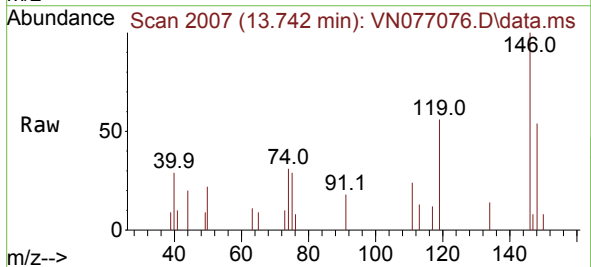
Instrument :
MSVOA_N
ClientSampleId :
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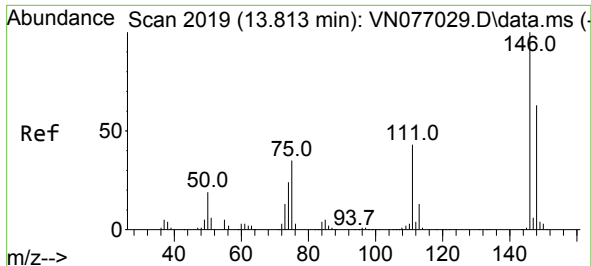
Tgt Ion: 91 Resp: 4636
Ion Ratio Lower Upper
91 100
126 26.9 15.5 46.5



#87
1,3-Dichlorobenzene
Concen: 0.440 ug/l
RT: 13.742 min Scan# 2007
Delta R.T. 0.006 min
Lab File: VN077076.D
Acq: 20 Mar 2023 18:18

Tgt Ion: 146 Resp: 3186
Ion Ratio Lower Upper
146 100
111 37.1 21.9 65.5
148 58.3 32.1 96.5

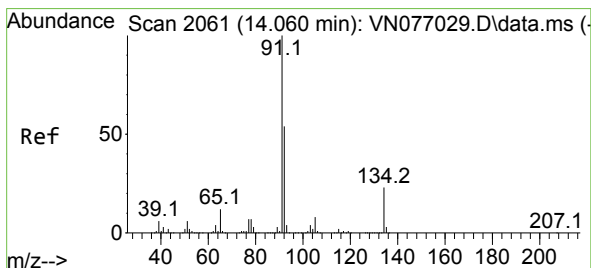
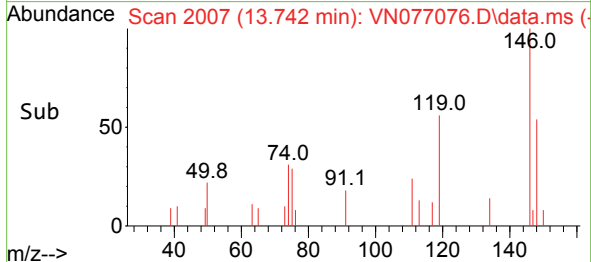
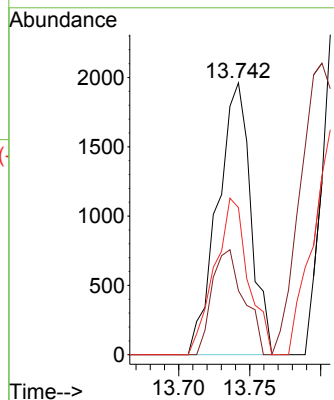
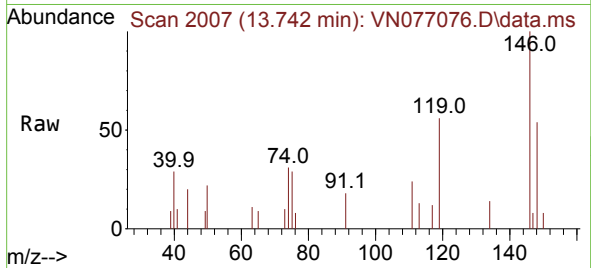




#88
1,4-Dichlorobenzene
Concen: 0.442 ug/l
RT: 13.742 min Scan# 2019
Delta R.T. -0.071 min
Lab File: VN077076.D
Acq: 20 Mar 2023 18:18

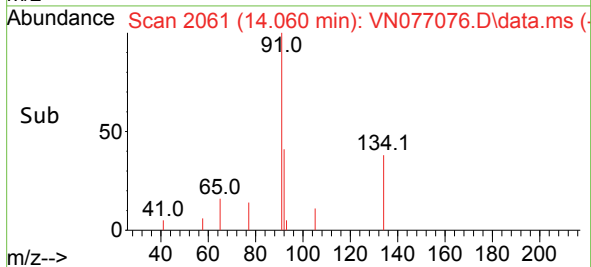
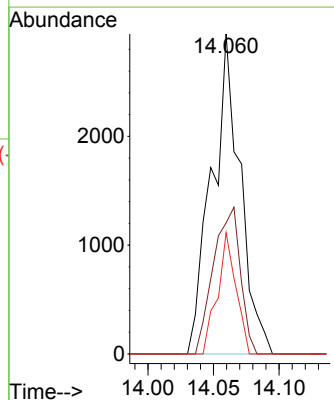
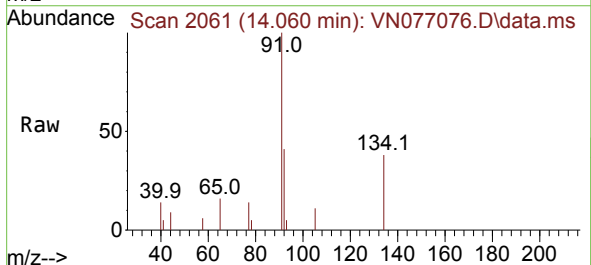
Instrument :
MSVOA_N
ClientSampleId :
IBLK

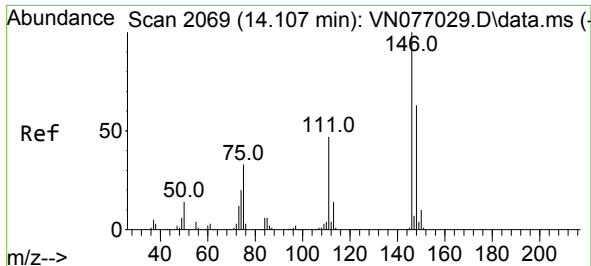
Tgt Ion:146 Resp: 3186
Ion Ratio Lower Upper
146 100
111 37.1 21.5 64.5
148 58.3 31.9 95.9



#89
n-Butylbenzene
Concen: 0.368 ug/l
RT: 14.060 min Scan# 2061
Delta R.T. -0.000 min
Lab File: VN077076.D
Acq: 20 Mar 2023 18:18

Tgt Ion: 91 Resp: 4422
Ion Ratio Lower Upper
91 100
92 43.5 26.5 79.5
134 24.7 11.7 35.1

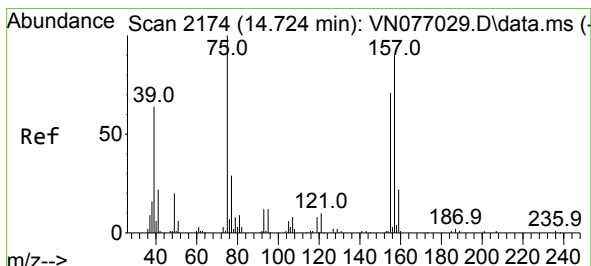
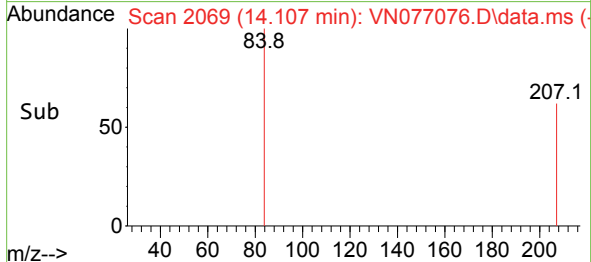
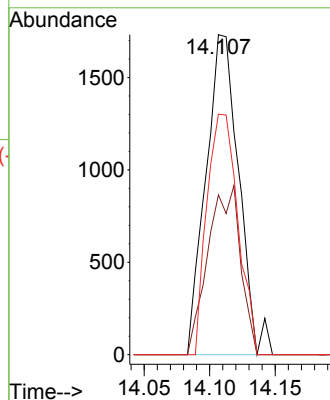
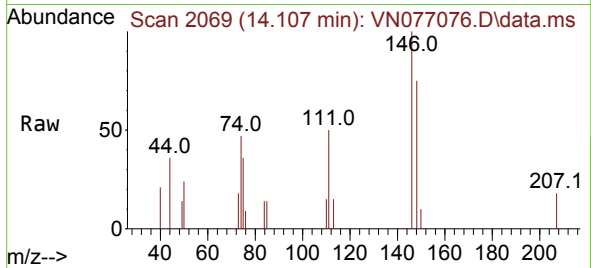




#91
1,2-Dichlorobenzene
Concen: 0.419 ug/l
RT: 14.107 min Scan# 2069
Delta R.T. -0.000 min
Lab File: VN077076.D
Acq: 20 Mar 2023 18:18

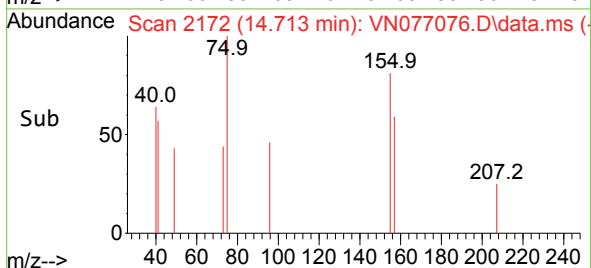
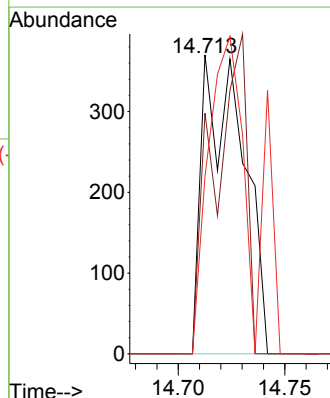
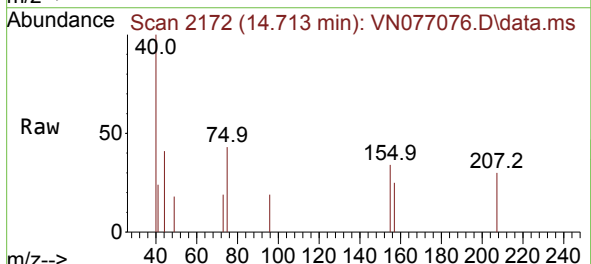
Instrument :
MSVOA_N
ClientSampleId :
IBLK

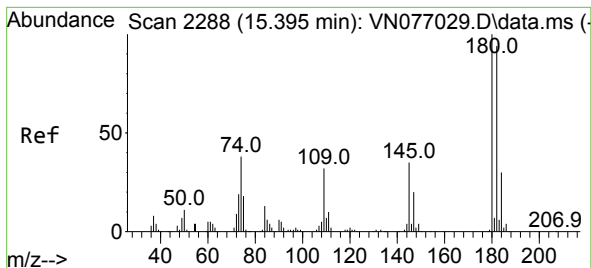
Tgt Ion:146 Resp: 3027
Ion Ratio Lower Upper
146 100
111 51.8 22.6 67.7
148 70.5 31.6 95.0



#92
1,2-Dibromo-3-Chloropropane
Concen: 0.432 ug/l
RT: 14.713 min Scan# 2172
Delta R.T. -0.011 min
Lab File: VN077076.D
Acq: 20 Mar 2023 18:18

Tgt Ion: 75 Resp: 496
Ion Ratio Lower Upper
75 100
155 84.7 36.1 108.3
157 87.5 45.8 137.3





#93

1,2,4-Trichlorobenzene

Concen: 1.202 ug/l

RT: 15.401 min Scan# 2289

Delta R.T. 0.006 min

Lab File: VN077076.D

Acq: 20 Mar 2023 18:18

Instrument :

MSVOA_N

ClientSampleId :

IBLK

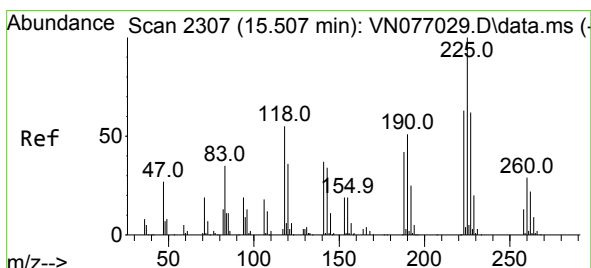
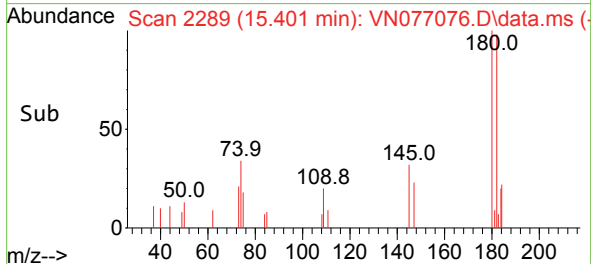
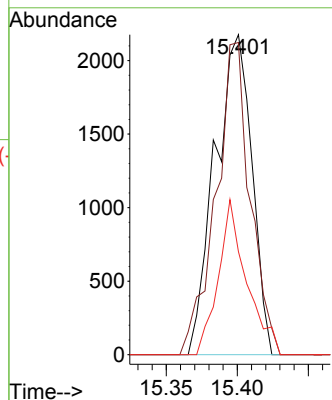
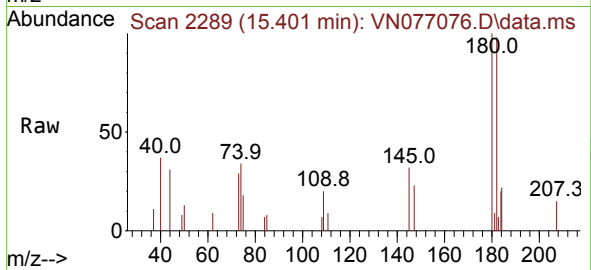
Tgt Ion:180 Resp: 3925

Ion Ratio Lower Upper

180 100

182 90.8 47.3 141.9

145 37.0 16.9 50.7



#94

Hexachlorobutadiene

Concen: 0.328 ug/l

RT: 15.507 min Scan# 2307

Delta R.T. -0.000 min

Lab File: VN077076.D

Acq: 20 Mar 2023 18:18

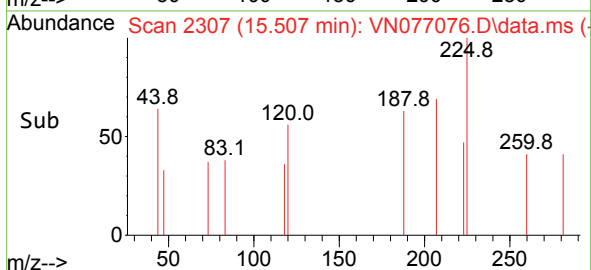
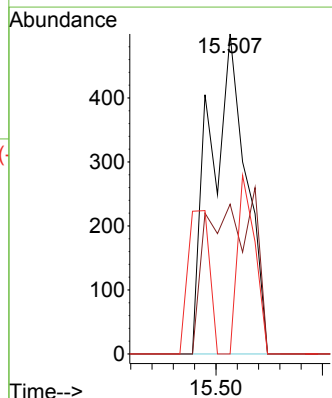
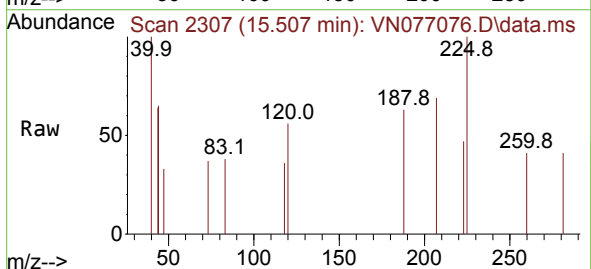
Tgt Ion:225 Resp: 590

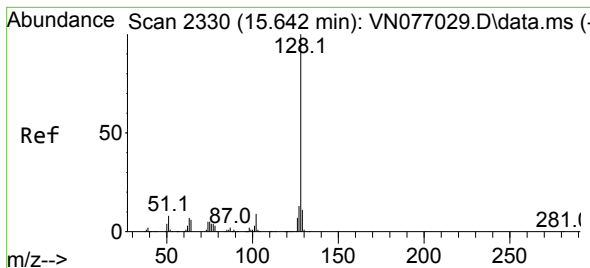
Ion Ratio Lower Upper

225 100

223 63.4 31.6 95.0

227 27.1 31.3 93.8#





#95

Naphthalene

Concen: 3.136 ug/l

RT: 15.648 min Scan# 2330

Delta R.T. 0.006 min

Lab File: VN077076.D

Acq: 20 Mar 2023 18:18

Instrument :

MSVOA_N

ClientSampleId :

IBLK

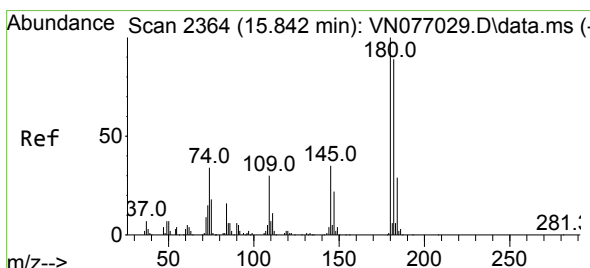
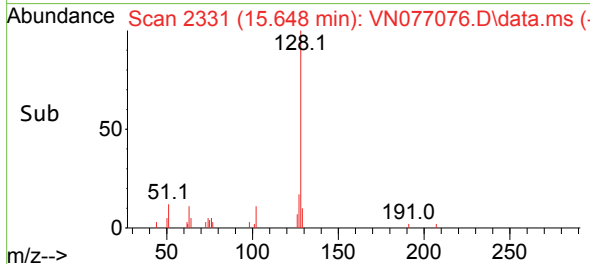
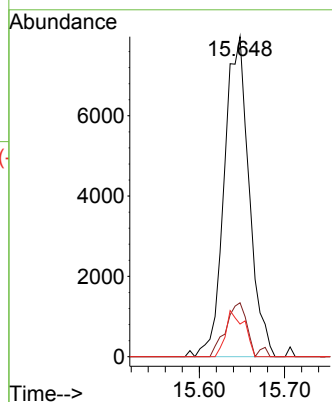
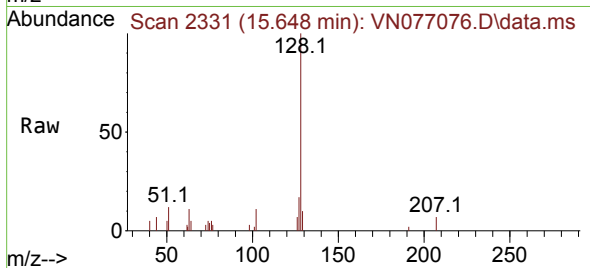
Tgt Ion:128 Resp: 16155

Ion Ratio Lower Upper

128 100

127 14.9 10.0 15.0

129 10.7 8.6 13.0



#96

1,2,3-Trichlorobenzene

Concen: 1.430 ug/l

RT: 15.848 min Scan# 2365

Delta R.T. 0.006 min

Lab File: VN077076.D

Acq: 20 Mar 2023 18:18

Tgt Ion:180 Resp: 4684

Ion Ratio Lower Upper

180 100

182 97.2 47.4 142.2

145 34.7 17.9 53.8

