

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN040723\
 Data File : VN077278.D
 Acq On : 07 Apr 2023 14:45
 Operator : JC\MD
 Sample : VN0407WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0407WBL01

Quant Time: Apr 08 05:20:15 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N040723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 07 13:04:49 2023
 Response via : Initial Calibration

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

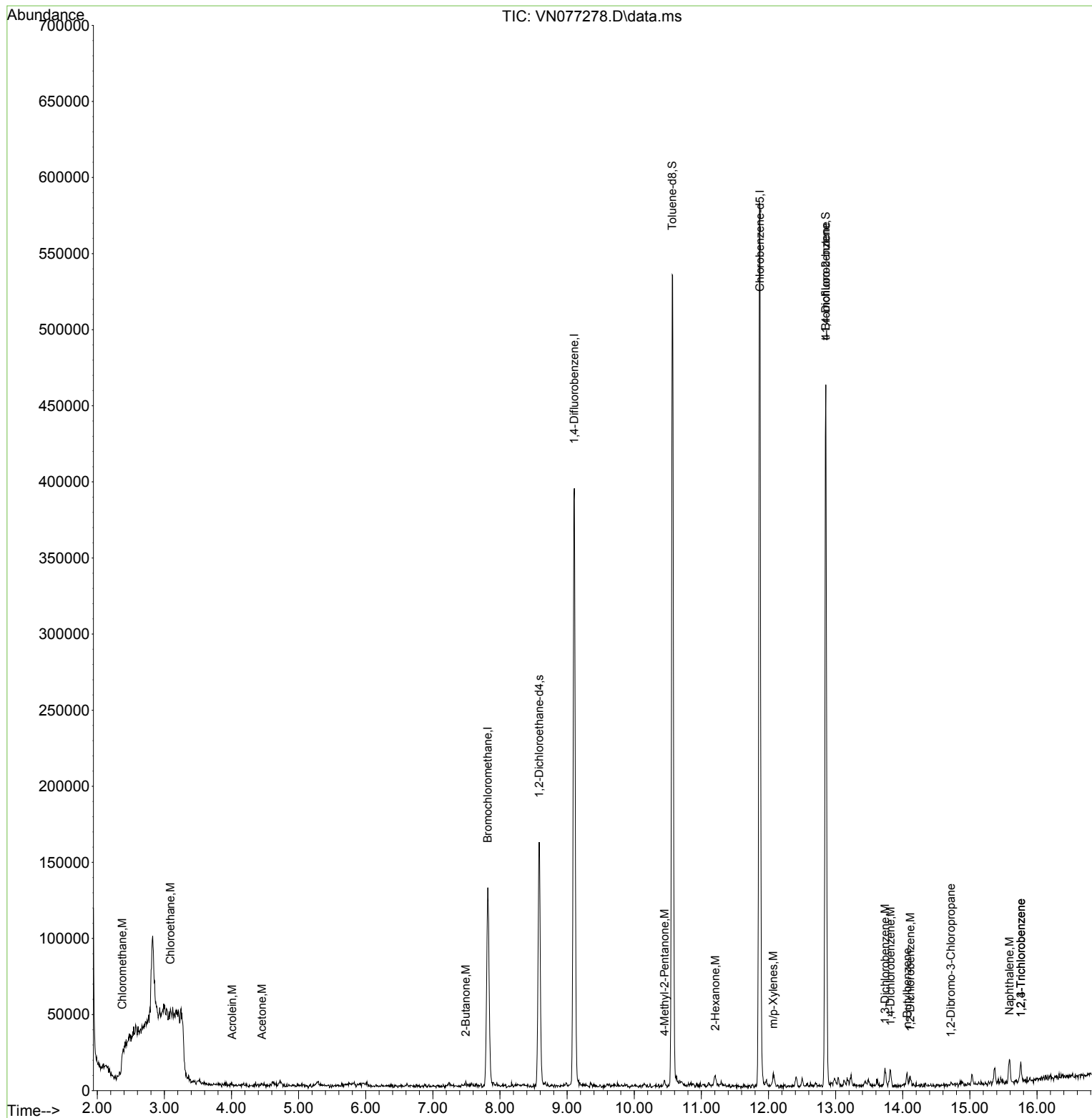
Internal Standards						
1) Bromochloromethane	7.819	128	48893	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.107	114	361569	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	358185	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	123951	29.892	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	99.633%
60) 4-Bromofluorobenzene	12.854	95	157183	25.379	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	84.600%
63) Toluene-d8	10.566	98	392694	31.186	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	103.967%
Target Compounds						
					Qvalue	
3) Chloromethane	2.372	50	1728	0.280	ug/l	95
6) Chloroethane	3.090	64	1955	0.330	ug/l	98
13) Acrolein	4.007	56	376	0.395	ug/l	97
15) Acetone	4.454	58	457	0.480	ug/l #	1
30) 2-Butanone	7.489	43	1088	0.294	ug/l #	50
58) 4-Methyl-2-Pentanone	10.454	43	2793	0.416	ug/l	96
59) 2-Hexanone	11.207	43	5875	1.133	ug/l	98
67) m/p-Xylenes	12.071	106	2252	0.208	ug/l #	60
77) t-1,4-Dichloro-2-butene	12.854	75	85773	29.359	ug/l #	18
83) 1,3-Dichlorobenzene	13.736	146	2776	0.262	ug/l	91
84) 1,4-Dichlorobenzene	13.818	146	3419	0.332	ug/l	82
85) n-Butylbenzene	14.065	91	4961	0.269	ug/l	98
87) 1,2-Dichlorobenzene	14.112	146	2753	0.265	ug/l	85
88) 1,2-Dibromo-3-Chloropr...	14.718	75	344	0.213	ug/l #	76
89) 1,2,4-Trichlorobenzene	15.759	180	3713	0.908	ug/l	95
91) Naphthalene	15.589	128	13612	0.871	ug/l #	96
92) 1,2,3-Trichlorobenzene	15.759	180	3713	0.930	ug/l	93

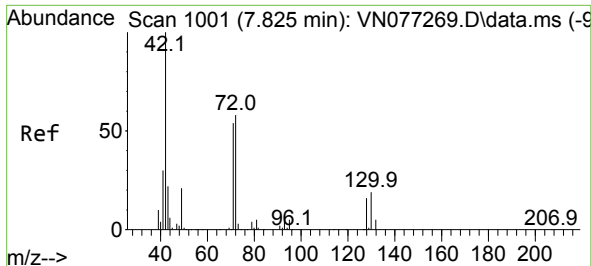
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN040723\
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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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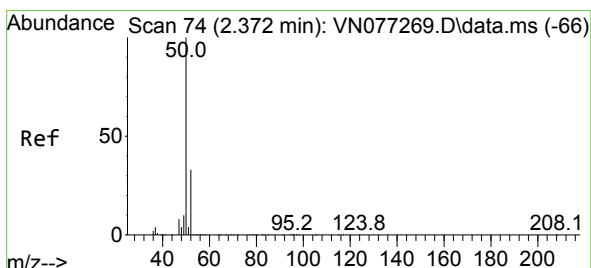
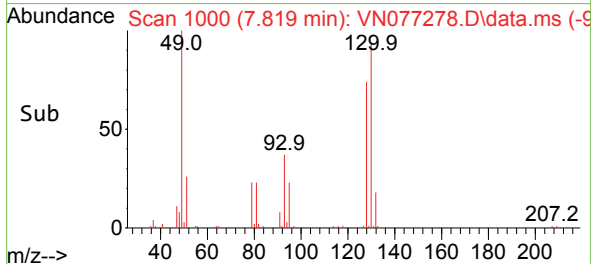
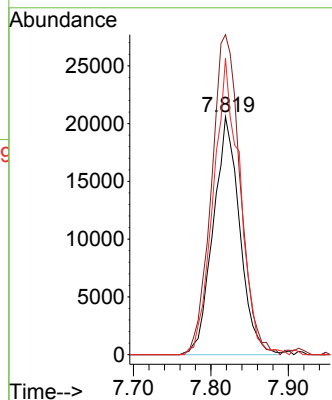
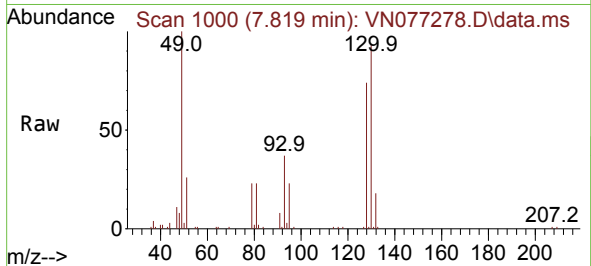




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.819 min Scan# 10
Delta R.T. -0.006 min
Lab File: VN077278.D
Acq: 07 Apr 2023 14:45

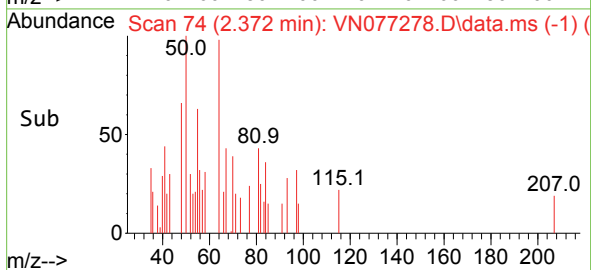
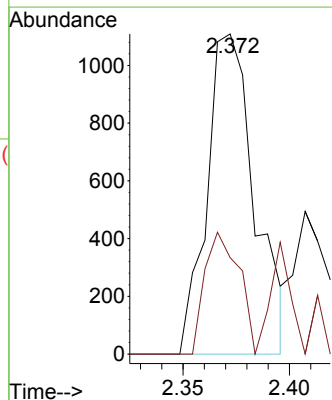
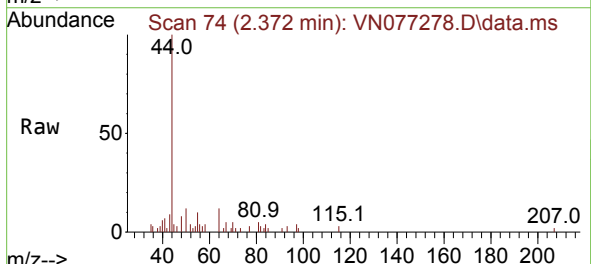
Instrument :
MSVOA_N
ClientSampleId :
VN0407WBL01

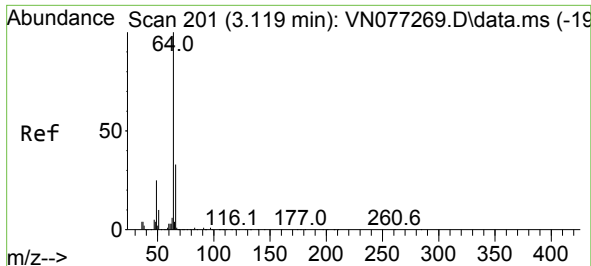
Tgt Ion:128 Resp: 48893
Ion Ratio Lower Upper
128 100
49 146.3 0.0 379.5
130 124.8 0.0 322.8



#3
Chloromethane
Concen: 0.280 ug/l
RT: 2.372 min Scan# 74
Delta R.T. -0.000 min
Lab File: VN077278.D
Acq: 07 Apr 2023 14:45

Tgt Ion: 50 Resp: 1728
Ion Ratio Lower Upper
50 100
52 30.1 26.4 39.6

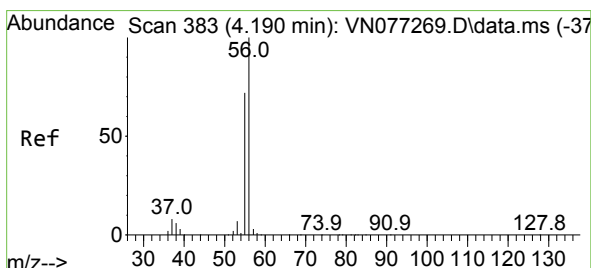
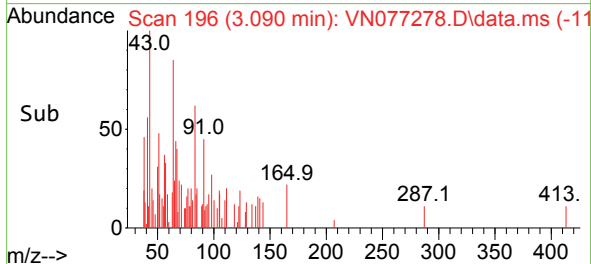
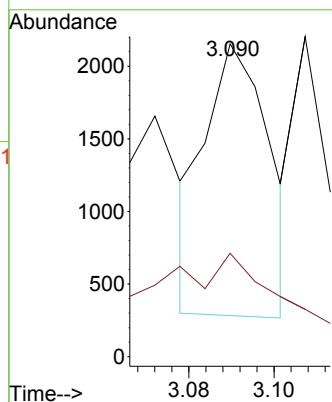
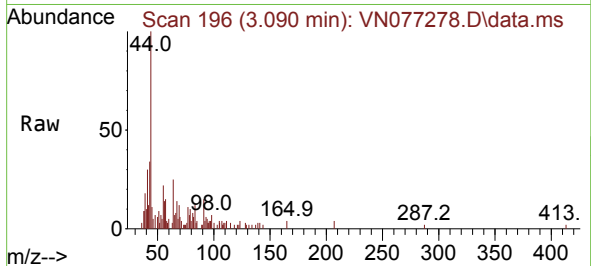




#6
Chloroethane
Concen: 0.330 ug/l
RT: 3.090 min Scan# 11
Delta R.T. -0.030 min
Lab File: VN077278.D
Acq: 07 Apr 2023 14:45

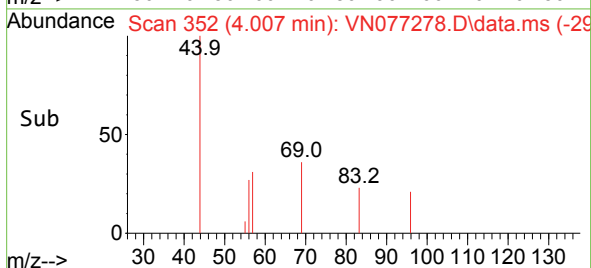
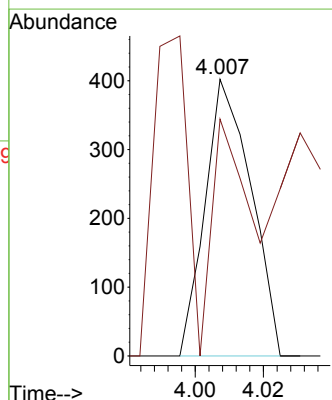
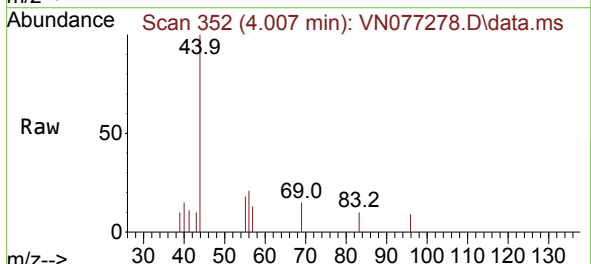
Instrument :
MSVOA_N
ClientSampleId :
VN0407WBL01

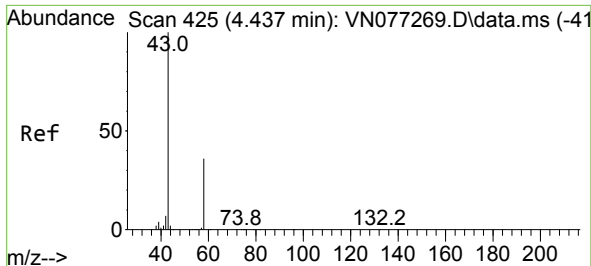
Tgt Ion: 64 Resp: 1955
Ion Ratio Lower Upper
64 100
66 30.9 25.7 38.5



#13
Acrolein
Concen: 0.395 ug/l
RT: 4.007 min Scan# 352
Delta R.T. -0.183 min
Lab File: VN077278.D
Acq: 07 Apr 2023 14:45

Tgt Ion: 56 Resp: 376
Ion Ratio Lower Upper
56 100
55 71.8 55.2 82.8

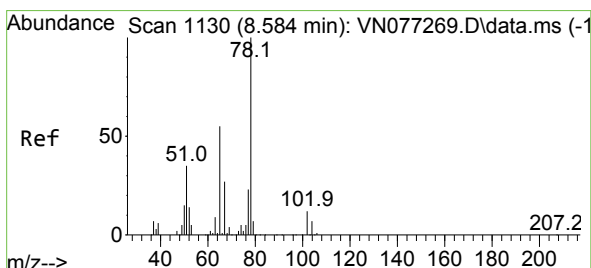
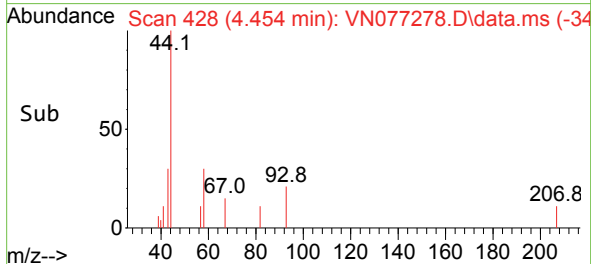
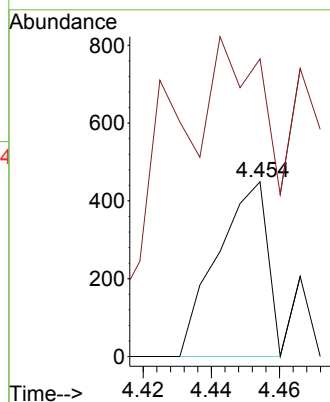
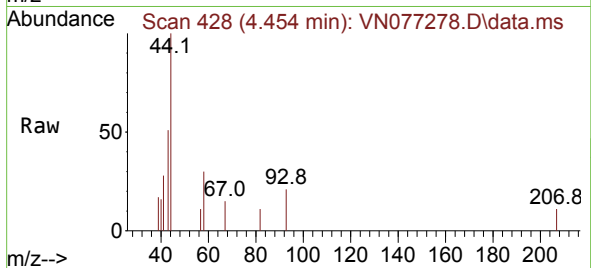




#15
Acetone
Concen: 0.480 ug/l
RT: 4.454 min Scan# 41
Delta R.T. 0.017 min
Lab File: VN077278.D
Acq: 07 Apr 2023 14:45

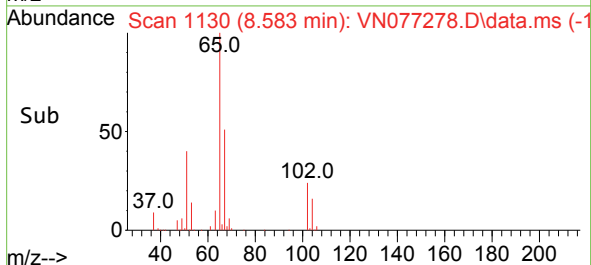
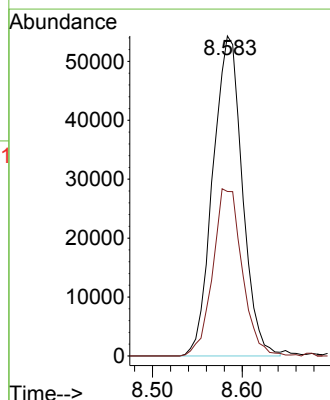
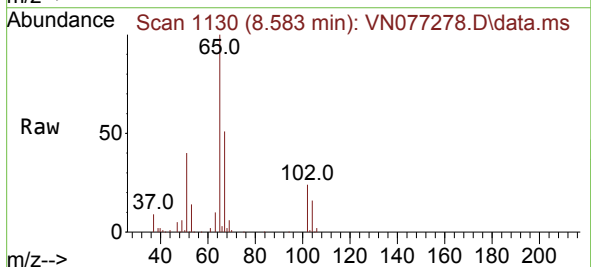
Instrument :
MSVOA_N
ClientSampleId :
VN0407WBL01

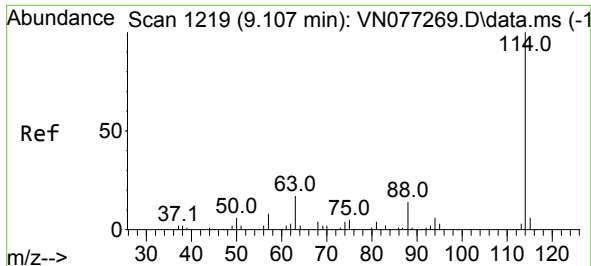
Tgt Ion: 58 Resp: 457
Ion Ratio Lower Upper
58 100
43 77.7 220.9 331.3#



#27
1,2-Dichloroethane-d4
Concen: 29.892 ug/l
RT: 8.583 min Scan# 1130
Delta R.T. -0.000 min
Lab File: VN077278.D
Acq: 07 Apr 2023 14:45

Tgt Ion: 65 Resp: 123951
Ion Ratio Lower Upper
65 100
67 51.9 41.8 62.6





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.107 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN077278.D

Acq: 07 Apr 2023 14:45

Instrument :

MSVOA_N

ClientSampleId :

VN0407WBL01

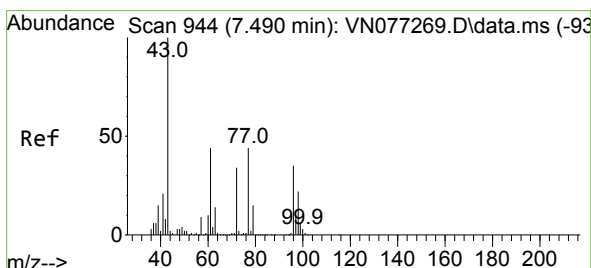
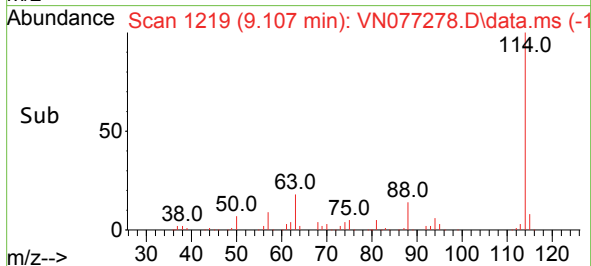
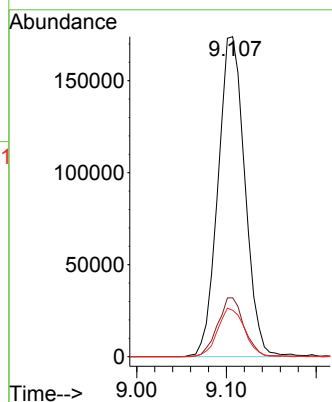
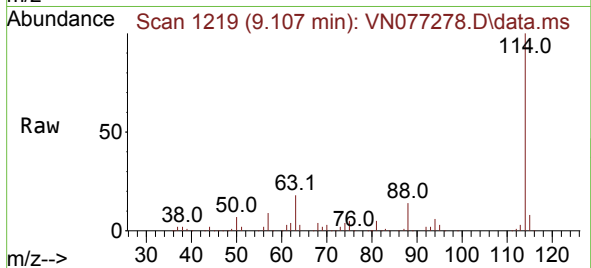
Tgt Ion:114 Resp: 361569

Ion Ratio Lower Upper

114 100

63 18.0 15.0 22.4

88 15.1 11.9 17.9



#30

2-Butanone

Concen: 0.294 ug/l

RT: 7.489 min Scan# 944

Delta R.T. -0.000 min

Lab File: VN077278.D

Acq: 07 Apr 2023 14:45

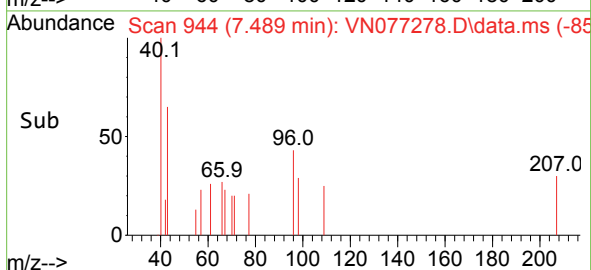
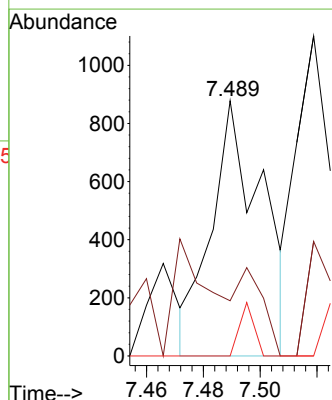
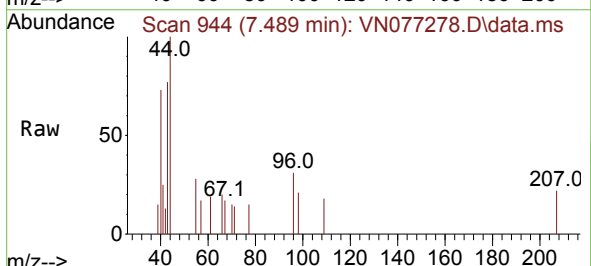
Tgt Ion: 43 Resp: 1088

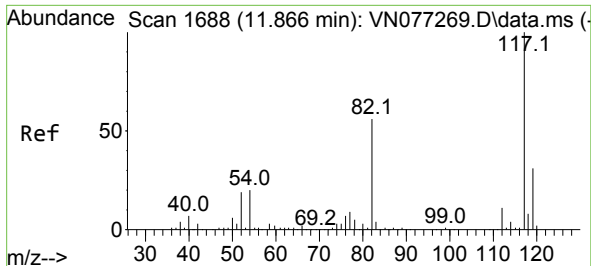
Ion Ratio Lower Upper

43 100

57 16.3 7.5 11.3#

72 0.0 26.9 40.3#

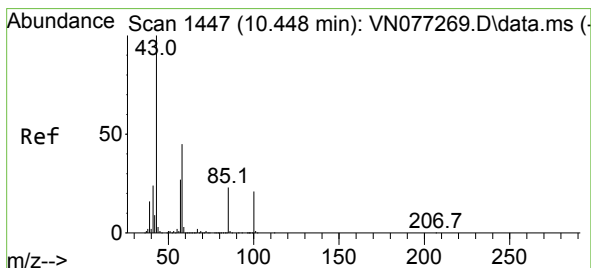
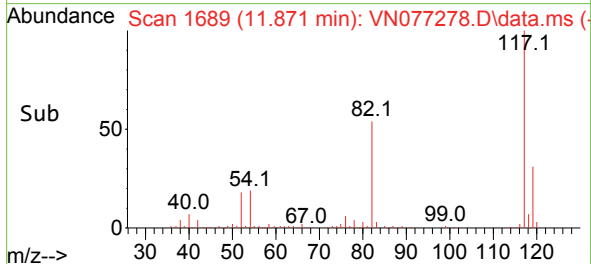
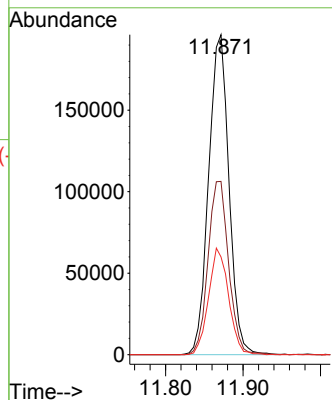
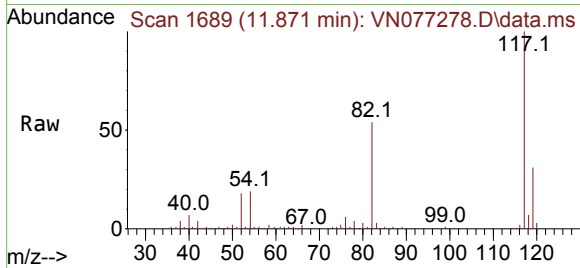




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.871 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN077278.D
Acq: 07 Apr 2023 14:45

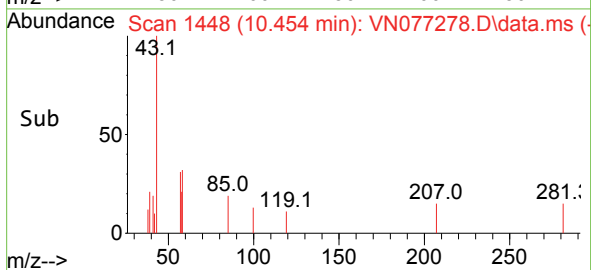
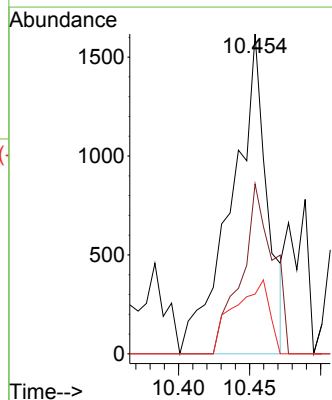
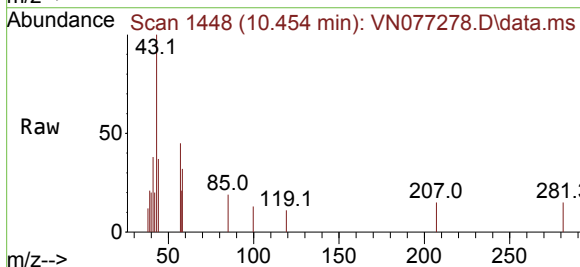
Instrument :
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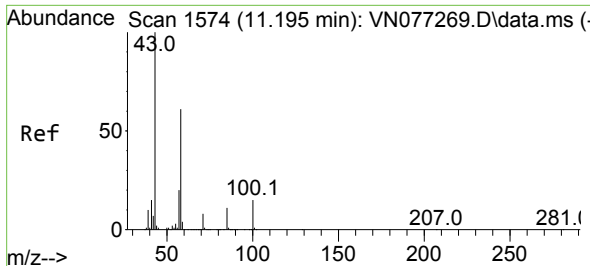
Tgt Ion:117 Resp: 358185
Ion Ratio Lower Upper
117 100
82 54.9 43.8 65.8
119 32.8 25.4 38.0



#58
4-Methyl-2-Pentanone
Concen: 0.416 ug/l
RT: 10.454 min Scan# 1448
Delta R.T. 0.006 min
Lab File: VN077278.D
Acq: 07 Apr 2023 14:45

Tgt Ion: 43 Resp: 2793
Ion Ratio Lower Upper
43 100
58 47.3 34.7 52.1
85 22.8 17.8 26.8

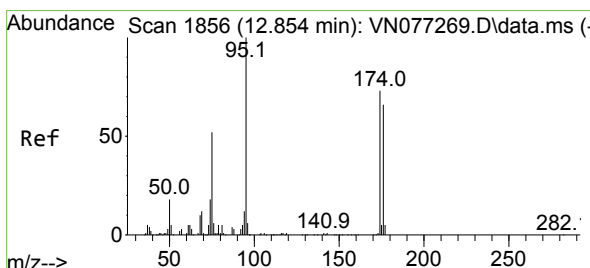
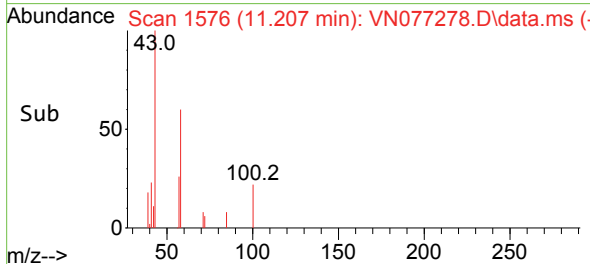
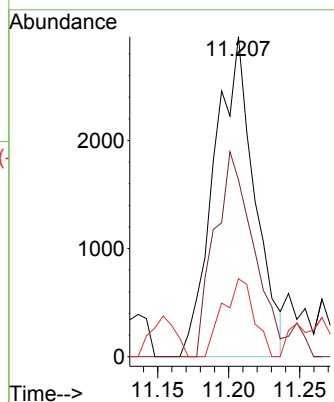
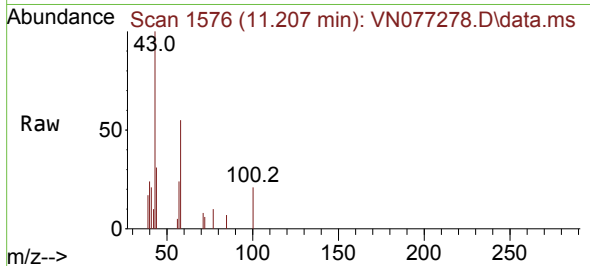




#59
2-Hexanone
Concen: 1.133 ug/l
RT: 11.207 min Scan# 1576
Delta R.T. 0.012 min
Lab File: VN077278.D
Acq: 07 Apr 2023 14:45

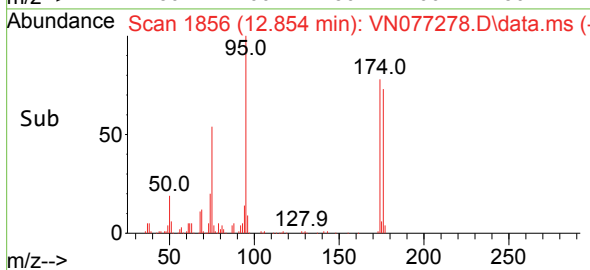
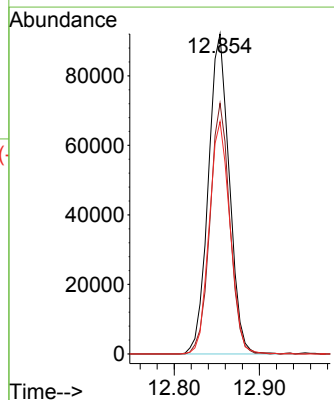
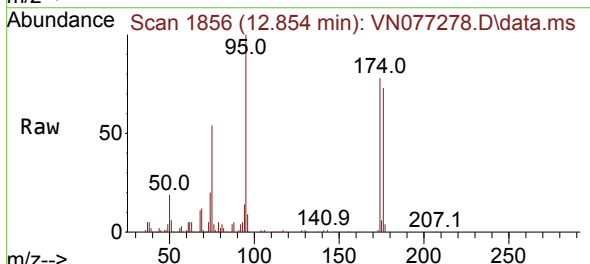
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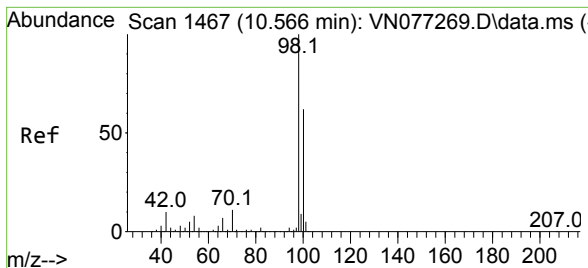
Tgt Ion: 43 Resp: 5875
Ion Ratio Lower Upper
43 100
58 61.2 48.6 73.0
57 18.8 16.7 25.1



#60
4-Bromofluorobenzene
Concen: 25.379 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. -0.000 min
Lab File: VN077278.D
Acq: 07 Apr 2023 14:45

Tgt Ion: 95 Resp: 157183
Ion Ratio Lower Upper
95 100
174 73.8 57.8 86.8
176 72.2 54.6 81.8





#63

Toluene-d8

Concen: 31.186 ug/l

RT: 10.566 min Scan# 1467

Delta R.T. -0.000 min

Lab File: VN077278.D

Acq: 07 Apr 2023 14:45

Instrument :

MSVOA_N

ClientSampleId :

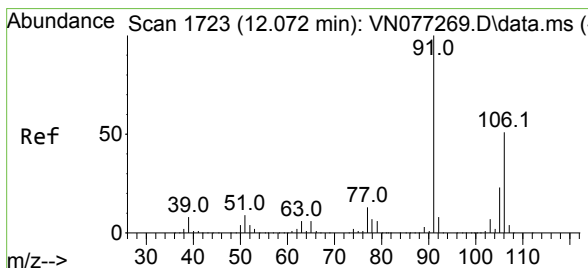
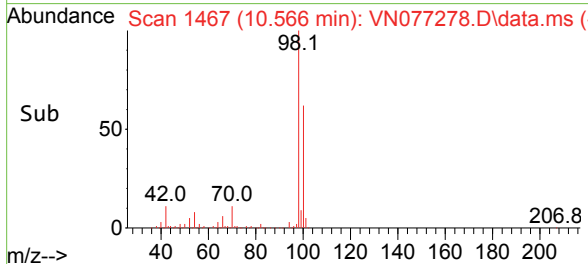
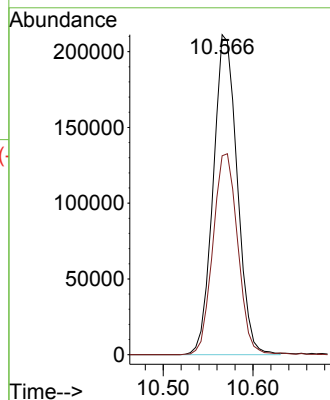
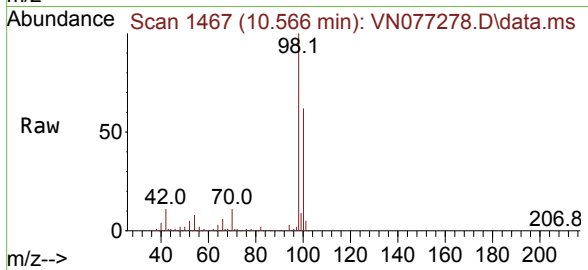
VN0407WBL01

Tgt Ion: 98 Resp: 392694

Ion Ratio Lower Upper

98 100

100 64.7 51.4 77.2



#67

m/p-Xylenes

Concen: 0.208 ug/l

RT: 12.071 min Scan# 1723

Delta R.T. -0.000 min

Lab File: VN077278.D

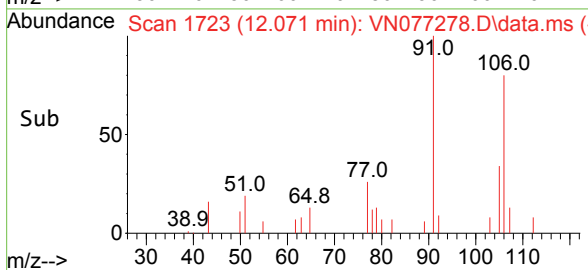
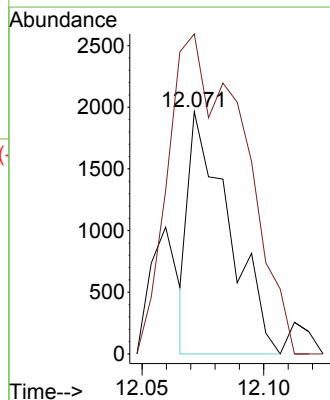
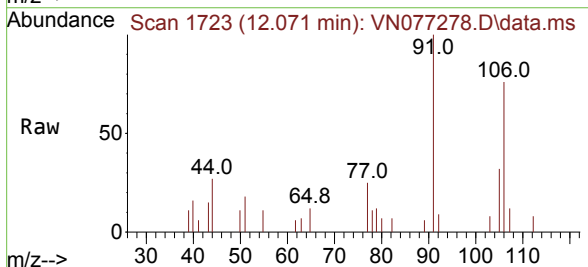
Acq: 07 Apr 2023 14:45

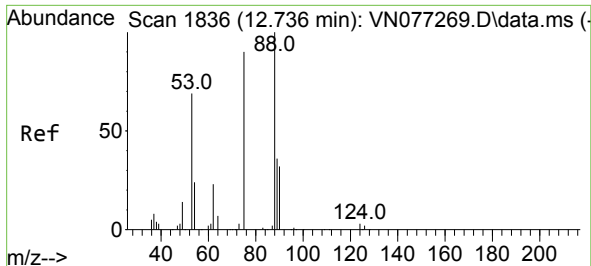
Tgt Ion:106 Resp: 2252

Ion Ratio Lower Upper

106 100

91 137.0 158.0 237.0#

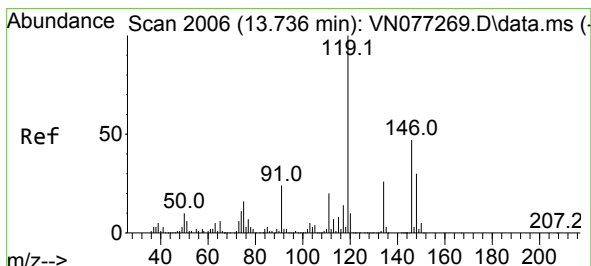
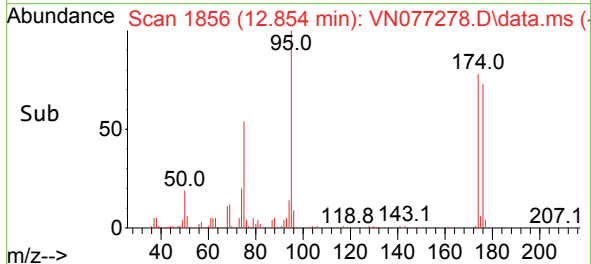
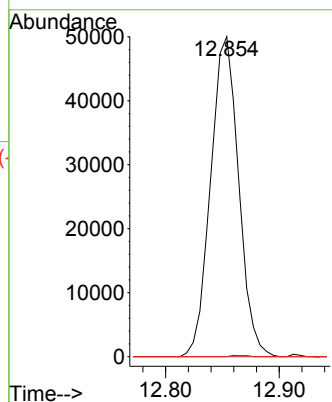
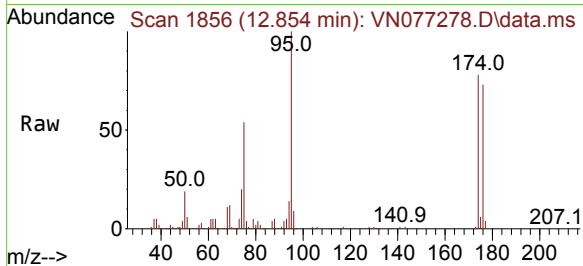




#77
t-1,4-Dichloro-2-butene
Concen: 29.359 ug/l
RT: 12.854 min Scan# 11
Delta R.T. 0.117 min
Lab File: VN077278.D
Acq: 07 Apr 2023 14:45

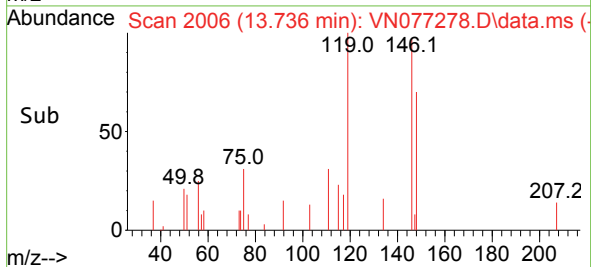
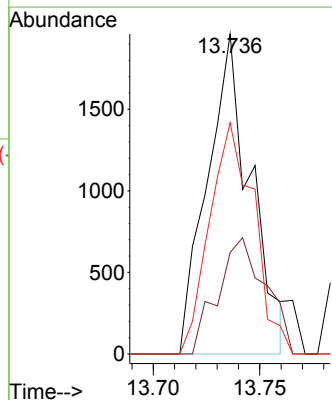
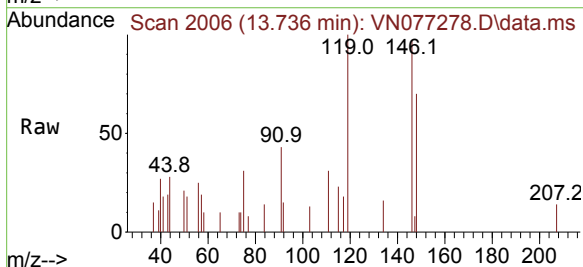
Instrument :
MSVOA_N
ClientSampleId :
VN0407WBL01

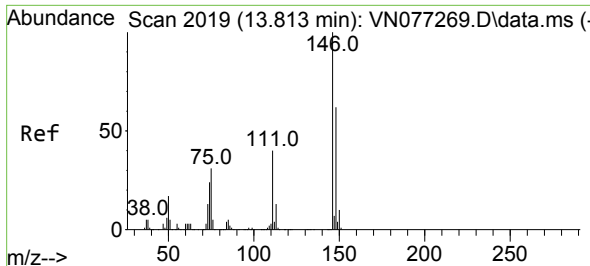
Tgt Ion: 75 Resp: 85773
Ion Ratio Lower Upper
75 100
53 0.0 38.8 116.4#
89 0.0 23.2 69.6#



#83
1,3-Dichlorobenzene
Concen: 0.262 ug/l
RT: 13.736 min Scan# 2006
Delta R.T. -0.000 min
Lab File: VN077278.D
Acq: 07 Apr 2023 14:45

Tgt Ion: 146 Resp: 2776
Ion Ratio Lower Upper
146 100
111 40.0 21.4 64.2
148 73.8 31.9 95.5

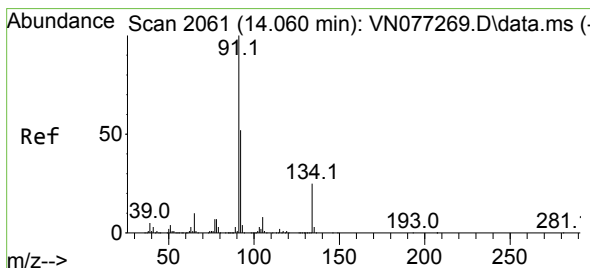
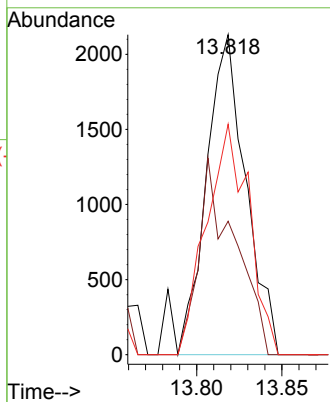
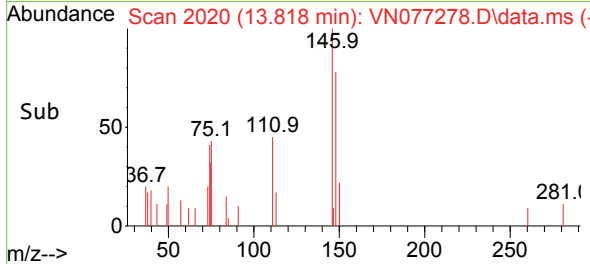
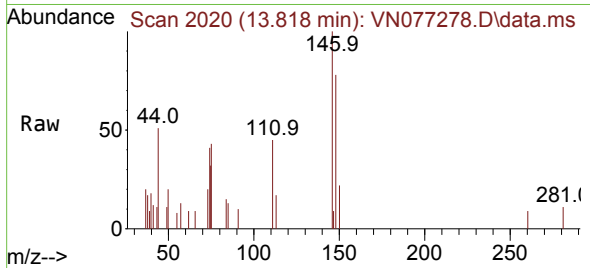




#84
1,4-Dichlorobenzene
Concen: 0.332 ug/l
RT: 13.818 min Scan# 2019
Delta R.T. 0.006 min
Lab File: VN077278.D
Acq: 07 Apr 2023 14:45

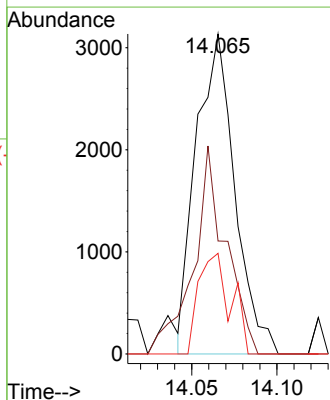
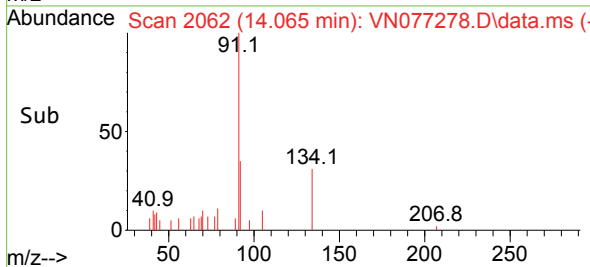
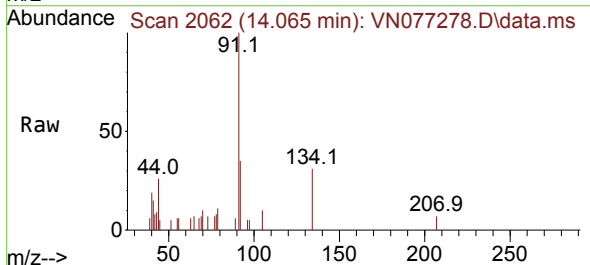
Instrument :
MSVOA_N
ClientSampleId :
VN0407WBL01

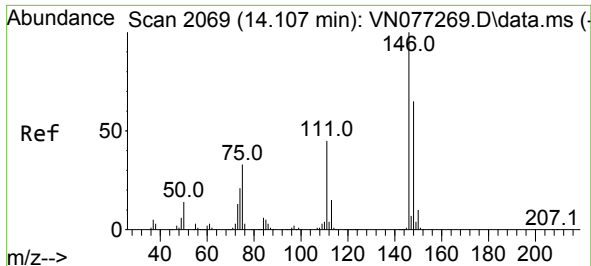
Tgt Ion:146 Resp: 3419
Ion Ratio Lower Upper
146 100
111 30.1 20.3 61.0
148 77.8 31.6 94.7



#85
n-Butylbenzene
Concen: 0.269 ug/l
RT: 14.065 min Scan# 2062
Delta R.T. 0.006 min
Lab File: VN077278.D
Acq: 07 Apr 2023 14:45

Tgt Ion: 91 Resp: 4961
Ion Ratio Lower Upper
91 100
92 54.2 0.0 105.6
134 25.7 0.0 49.4

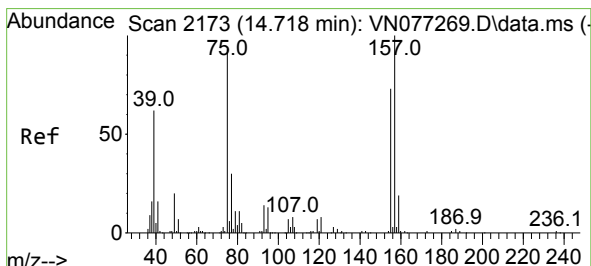
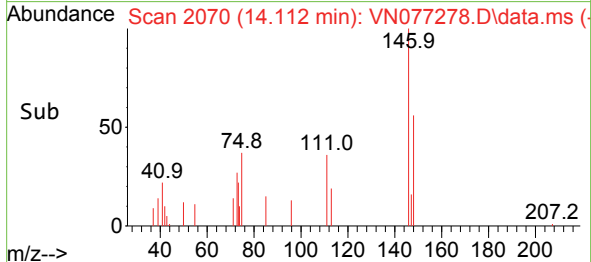
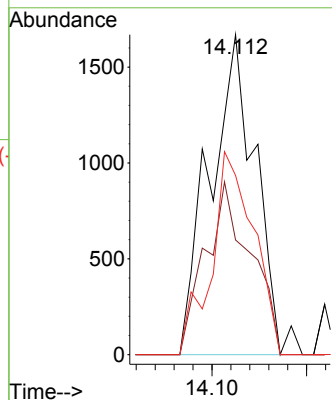
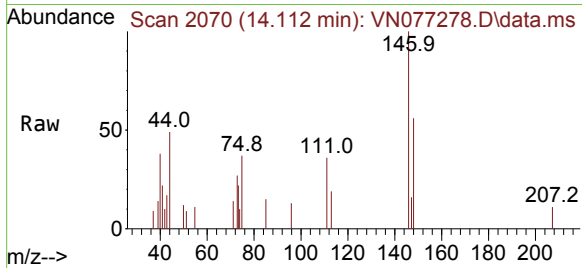




#87
1,2-Dichlorobenzene
Concen: 0.265 ug/l
RT: 14.112 min Scan# 2069
Delta R.T. 0.006 min
Lab File: VN077278.D
Acq: 07 Apr 2023 14:45

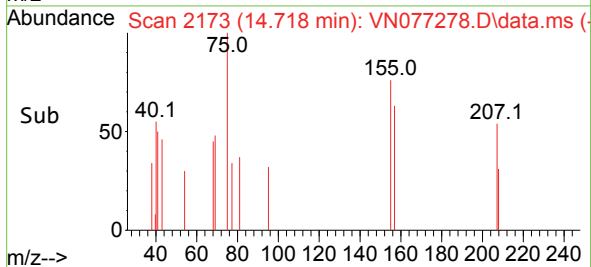
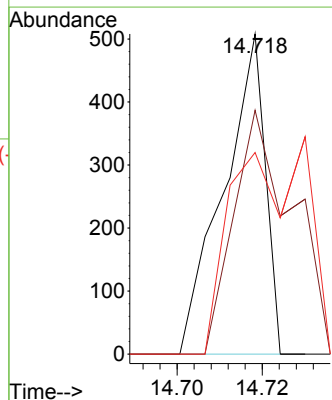
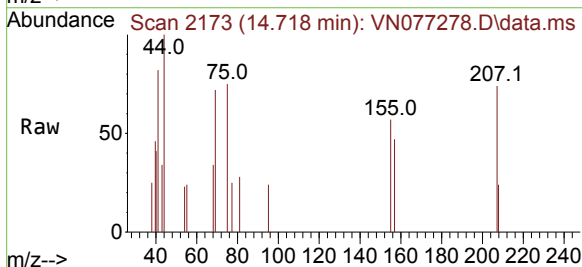
Instrument :
MSVOA_N
ClientSampleId :
VN0407WBL01

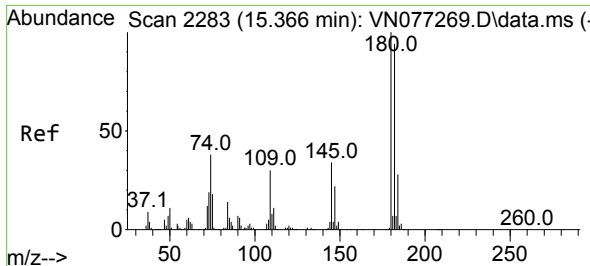
Tgt Ion:146 Resp: 2753
Ion Ratio Lower Upper
146 100
111 54.3 22.1 66.5
148 52.1 31.9 95.7



#88
1,2-Dibromo-3-Chloropropane
Concen: 0.213 ug/l
RT: 14.718 min Scan# 2173
Delta R.T. -0.000 min
Lab File: VN077278.D
Acq: 07 Apr 2023 14:45

Tgt Ion: 75 Resp: 344
Ion Ratio Lower Upper
75 100
155 107.3 67.8 101.6#
157 82.6 86.3 129.5#

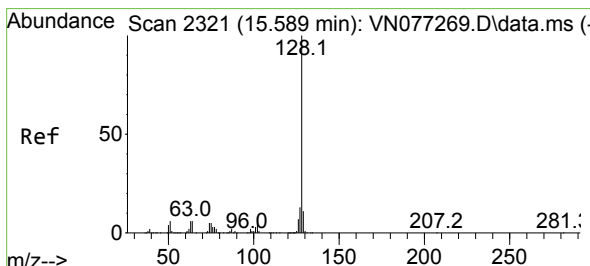
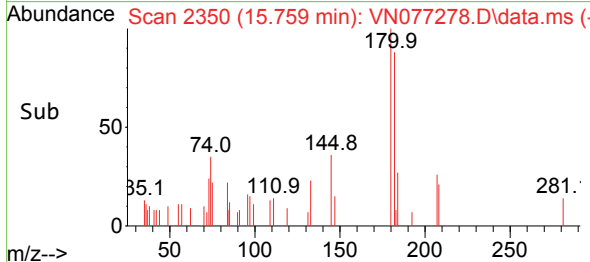
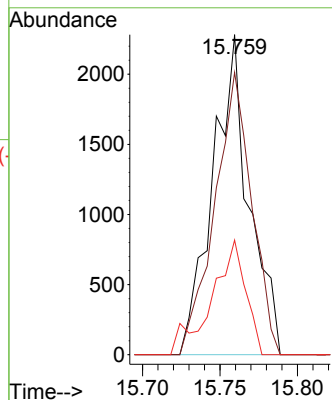
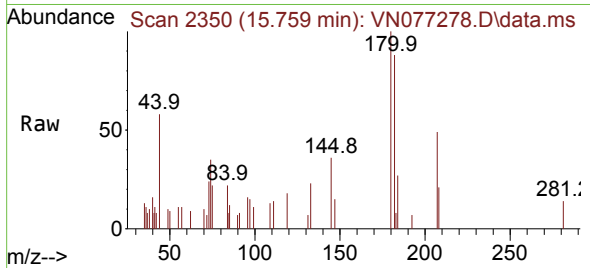




#89
1,2,4-Trichlorobenzene
Concen: 0.908 ug/l
RT: 15.759 min Scan# 21
Delta R.T. 0.394 min
Lab File: VN077278.D
Acq: 07 Apr 2023 14:45

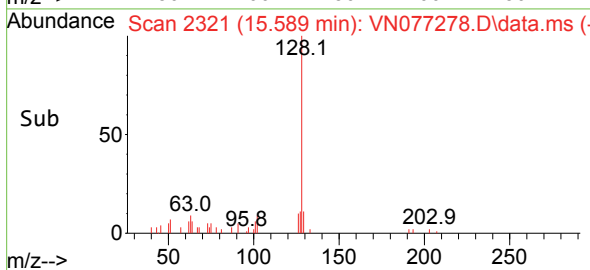
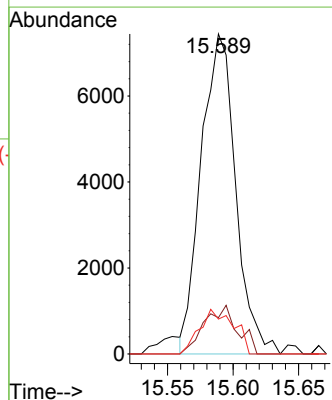
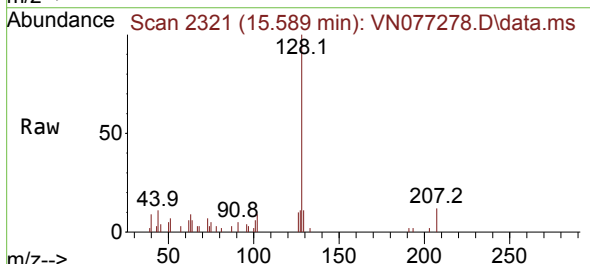
Instrument :
MSVOA_N
ClientSampleId :
VN0407WBL01

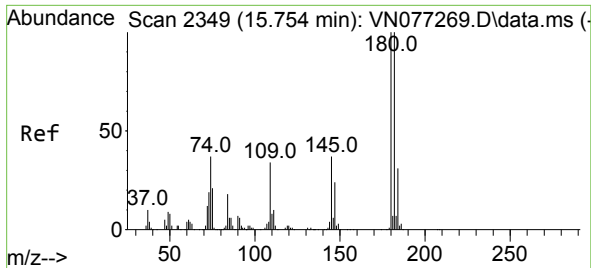
Tgt Ion	Ratio	Lower	Upper
180	100		
182	90.0	75.6	113.4
145	29.9	26.7	40.1



#91
Naphthalene
Concen: 0.871 ug/l
RT: 15.589 min Scan# 2321
Delta R.T. -0.000 min
Lab File: VN077278.D
Acq: 07 Apr 2023 14:45

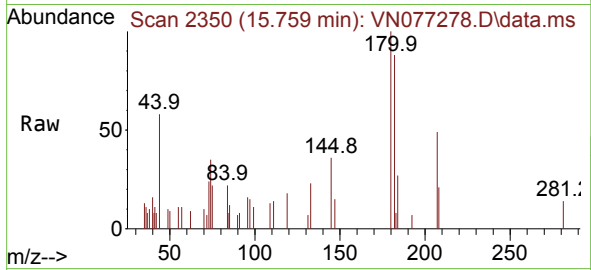
Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.2	15.2
129	13.8	8.9	13.3





#92
 1,2,3-Trichlorobenzene
 Concen: 0.930 ug/l
 RT: 15.759 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VN077278.D
 Acq: 07 Apr 2023 14:45

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0407WBL01



Tgt Ion:	180	Resp:	3713
Ion	Ratio	Lower	Upper
180	100		
182	90.0	0.0	190.4
145	29.9	0.0	72.4

