

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041223\
 Data File : VN077312.D
 Acq On : 12 Apr 2023 13:05
 Operator : JC\MD
 Sample : 02255-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 COAN5

Quant Time: Apr 13 01:13:27 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N040523W.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 06 08:27:03 2023
 Response via : Initial Calibration

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

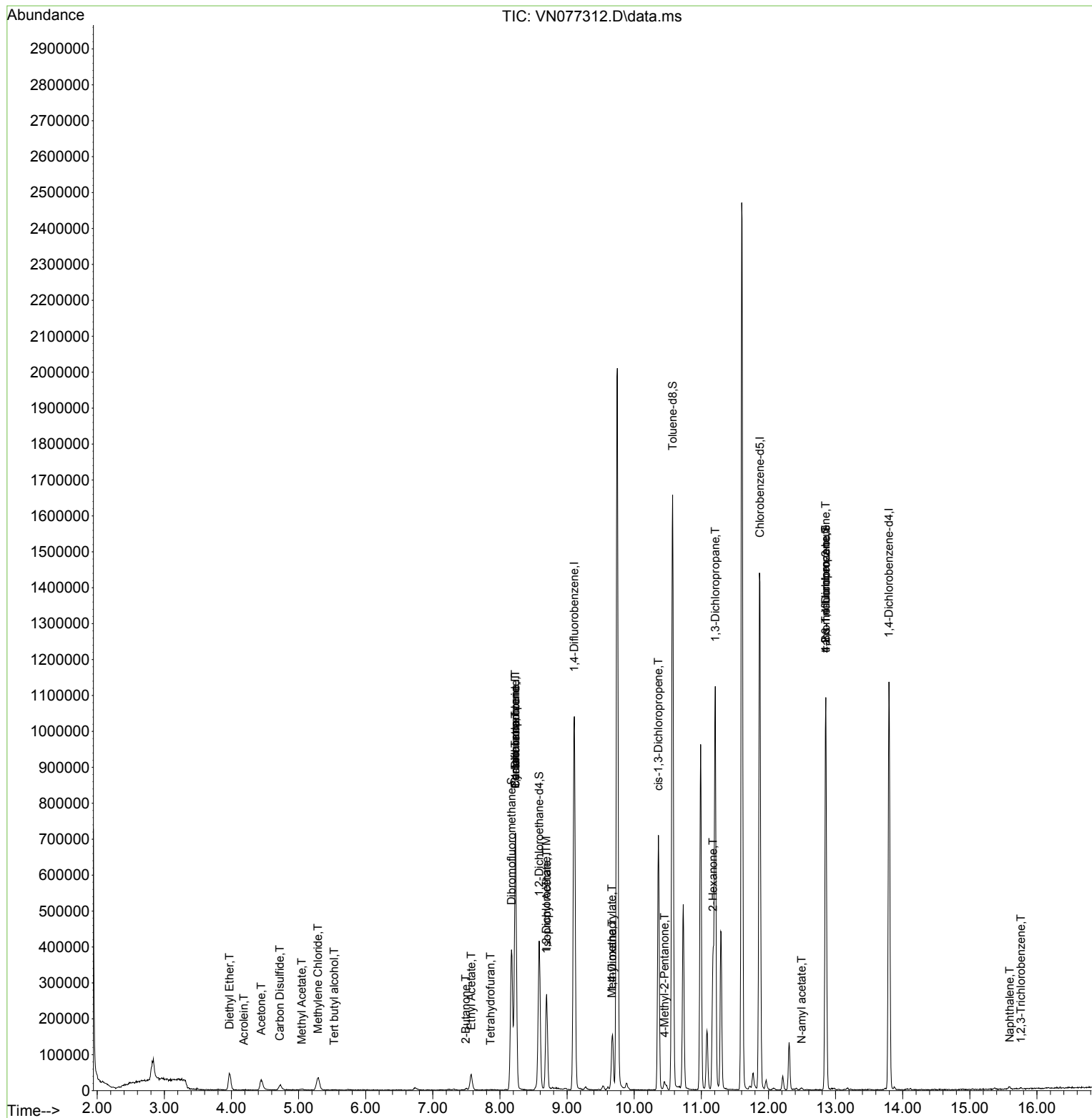
Internal Standards						
1) Pentafluorobenzene	8.231	168	506153	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	963413	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.872	117	874002	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	302245	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.584	65	314300	45.434	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	90.860%		
35) Dibromofluoromethane	8.172	113	285856	46.349	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	92.700%		
50) Toluene-d8	10.572	98	1199312	48.304	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	96.600%		
62) 4-Bromofluorobenzene	12.854	95	380567	46.087	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	92.180%		
Target Compounds						
					Qvalue	
8) Diethyl Ether	3.972	74	32338	8.199	ug/l	97
11) Tert butyl alcohol	5.531	59	751	0.532	ug/l #	72
13) Acrolein	4.184	56	387	0.289	ug/l #	75
16) Acetone	4.443	43	54402	21.329	ug/l	93
17) Carbon Disulfide	4.719	76	22157	1.386	ug/l #	94
18) Methyl Acetate	5.049	43	5607	0.577	ug/l #	63
20) Methylene Chloride	5.290	84	31787	4.413	ug/l #	91
25) 2-Butanone	7.490	43	5571	1.346	ug/l	96
29) Tetrahydrofuran	7.860	42	891	0.335	ug/l #	76
31) Cyclohexane	8.231	56	13041	1.213	ug/l #	36
36) 1,1-Dichloropropene	8.231	75	44604	4.890	ug/l #	49
37) Ethyl Acetate	7.572	43	62617	7.672	ug/l	98
38) Carbon Tetrachloride	8.231	117	57370	6.139	ug/l #	16
42) 1,2-Dichloroethane	8.690	62	2567	0.293	ug/l #	73
43) Isopropyl Acetate	8.696	43	290945	19.320	ug/l #	93
48) Methyl methacrylate	9.666	41	6540	1.018	ug/l #	37
49) 1,4-Dioxane	9.672	88	95	0.610	ug/l #	1
51) 4-Methyl-2-Pentanone	10.454	43	13852	1.591	ug/l	98
54) cis-1,3-Dichloropropene	10.360	75	141383	12.012	ug/l #	59
57) 1,3-Dichloropropane	11.207	76	12868	1.065	ug/l #	43
59) 2-Hexanone	11.172	43	414265	63.880	ug/l #	20
74) N-amyl acetate	12.495	43	3917	0.352	ug/l #	51
76) 1,2,3-Trichloropropane	12.854	75	205402	28.539	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.854	75	205402	64.222	ug/l #	13
95) Naphthalene	15.595	128	5113	0.341	ug/l #	92
96) 1,2,3-Trichlorobenzene	15.760	180	1131	0.296	ug/l #	77

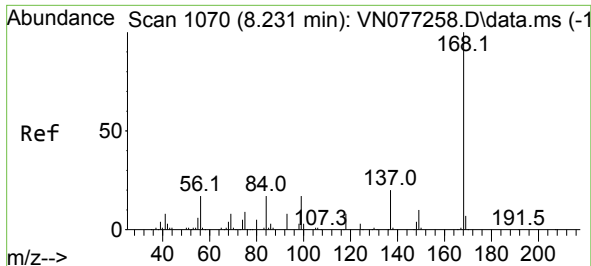
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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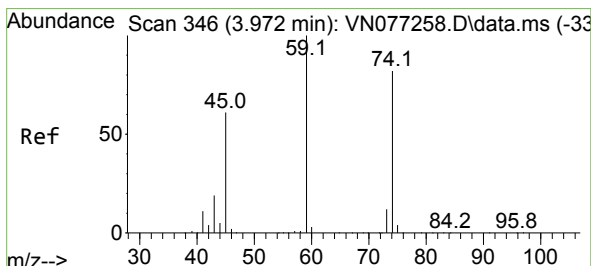
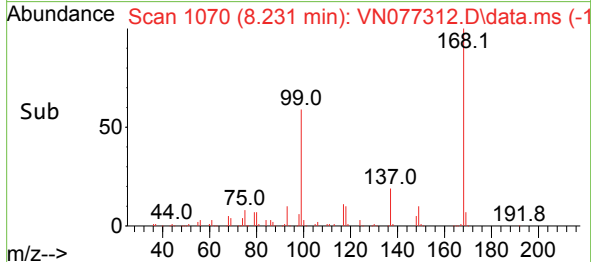
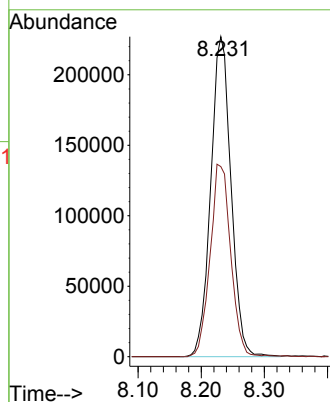
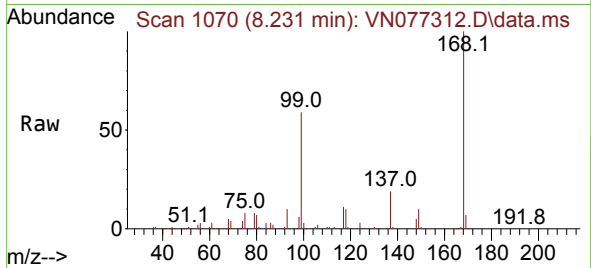




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.231 min Scan# 1070
Delta R.T. -0.000 min
Lab File: VN077312.D
Acq: 12 Apr 2023 13:05

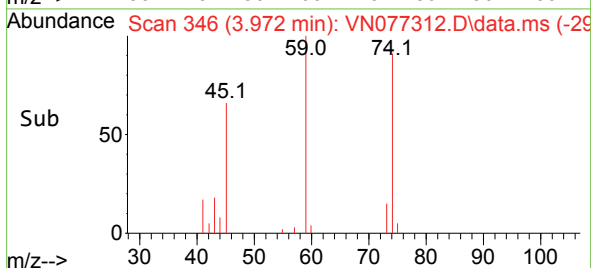
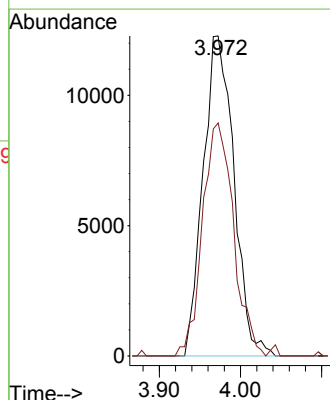
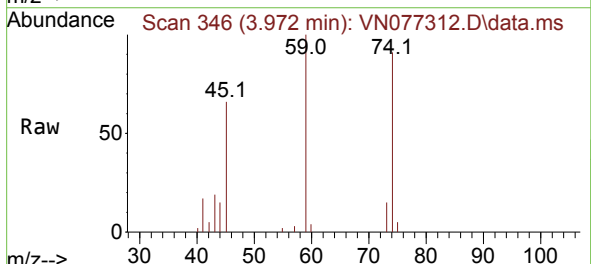
Instrument :
MSVOA_N
ClientSampleId :
COAN5

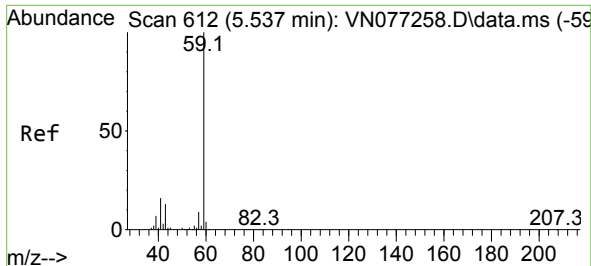
Tgt Ion:168 Resp: 506153
Ion Ratio Lower Upper
168 100
99 59.4 50.6 75.8



#8
Diethyl Ether
Concen: 8.199 ug/l
RT: 3.972 min Scan# 346
Delta R.T. 0.000 min
Lab File: VN077312.D
Acq: 12 Apr 2023 13:05

Tgt Ion: 74 Resp: 32338
Ion Ratio Lower Upper
74 100
45 73.4 37.8 113.4





#11

Tert butyl alcohol

Concen: 0.532 ug/l

RT: 5.531 min Scan# 612

Delta R.T. -0.006 min

Lab File: VN077312.D

Acq: 12 Apr 2023 13:05

Instrument :

MSVOA_N

ClientSampleId :

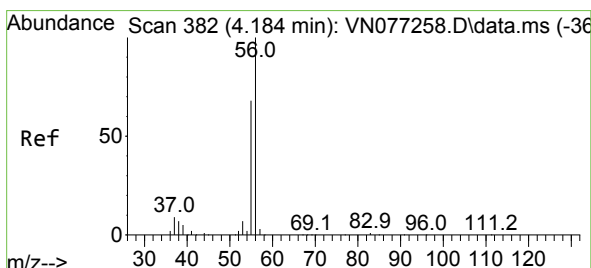
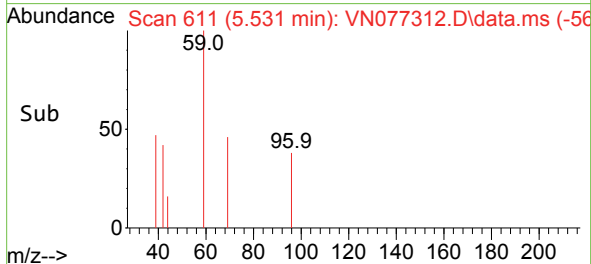
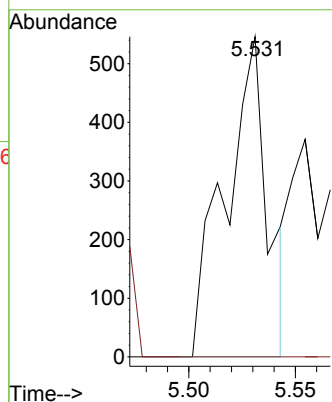
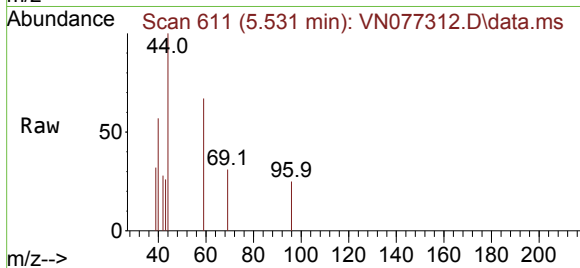
C0AN5

Tgt Ion: 59 Resp: 751

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



#13

Acrolein

Concen: 0.289 ug/l

RT: 4.184 min Scan# 382

Delta R.T. 0.000 min

Lab File: VN077312.D

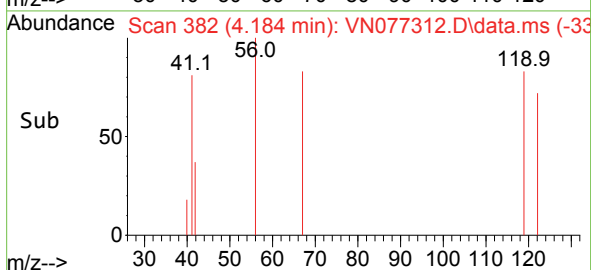
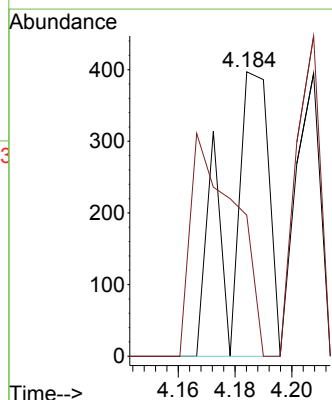
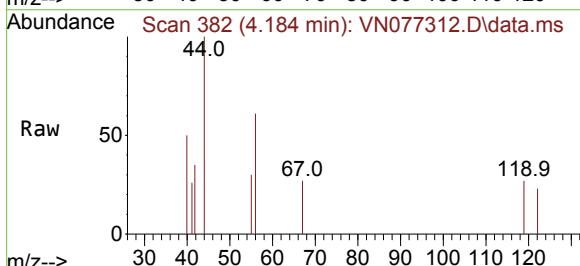
Acq: 12 Apr 2023 13:05

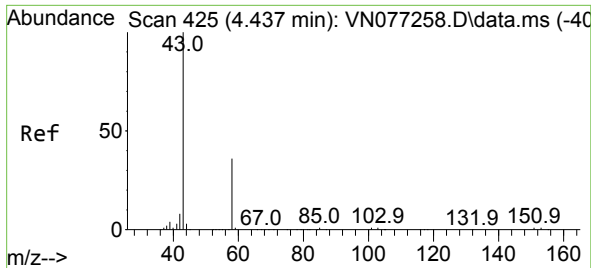
Tgt Ion: 56 Resp: 387

Ion Ratio Lower Upper

56 100

55 87.9 54.2 81.2#





#16

Acetone

Concen: 21.329 ug/l

RT: 4.443 min Scan# 41

Delta R.T. 0.006 min

Lab File: VN077312.D

Acq: 12 Apr 2023 13:05

Instrument :

MSVOA_N

ClientSampleId :

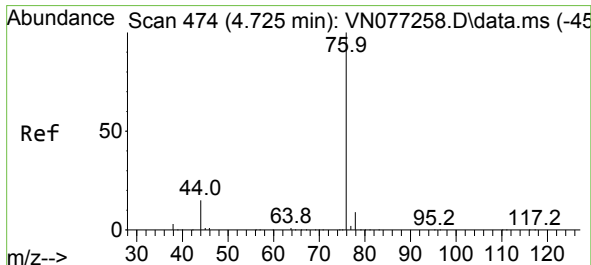
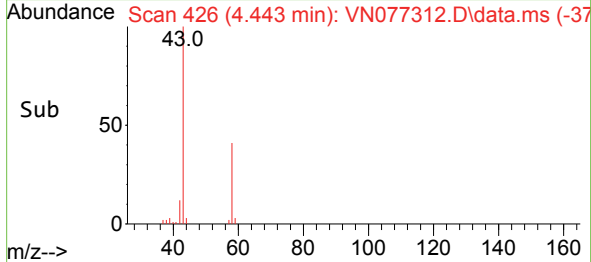
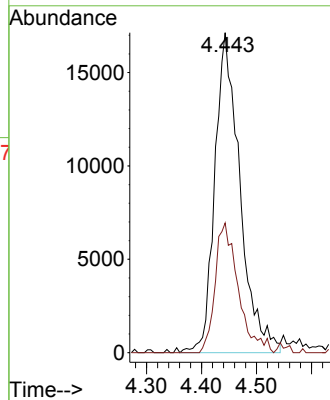
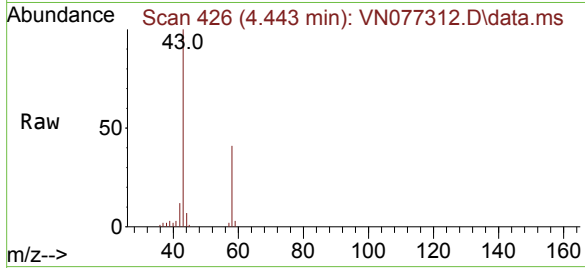
COAN5

Tgt Ion: 43 Resp: 54402

Ion Ratio Lower Upper

43 100

58 40.5 29.0 43.6



#17

Carbon Disulfide

Concen: 1.386 ug/l

RT: 4.719 min Scan# 473

Delta R.T. -0.006 min

Lab File: VN077312.D

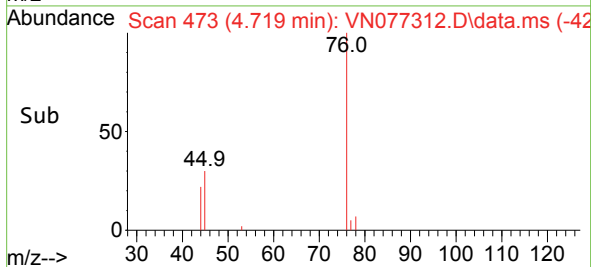
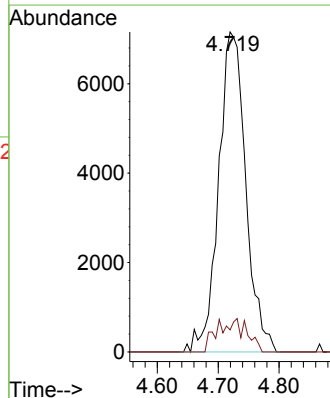
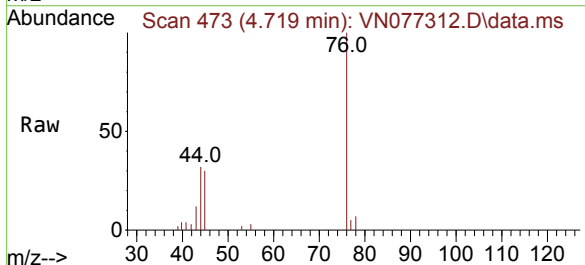
Acq: 12 Apr 2023 13:05

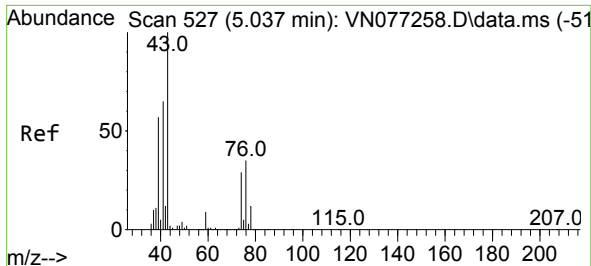
Tgt Ion: 76 Resp: 22157

Ion Ratio Lower Upper

76 100

78 6.9 7.3 10.9#

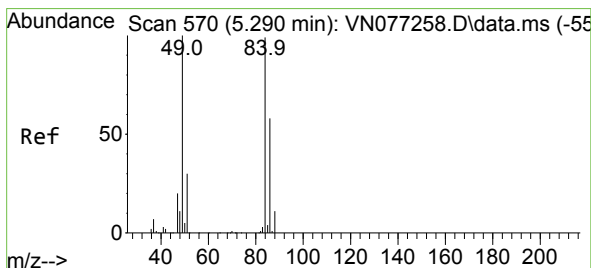
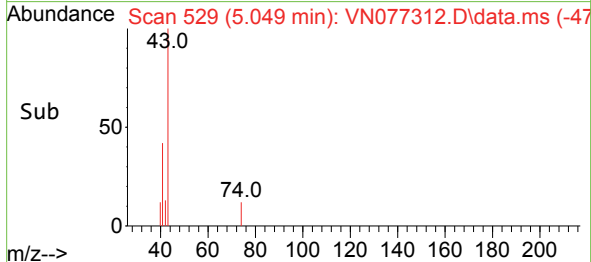
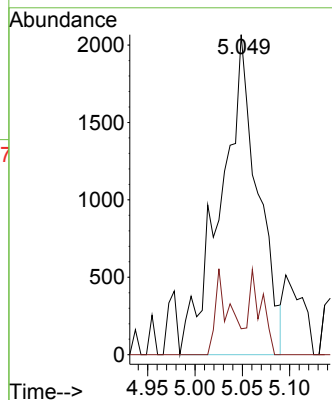
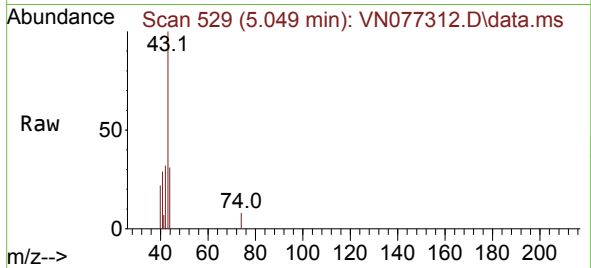




#18
Methyl Acetate
Concen: 0.577 ug/l
RT: 5.049 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN077312.D
Acq: 12 Apr 2023 13:05

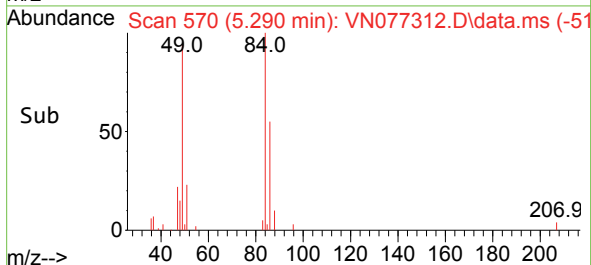
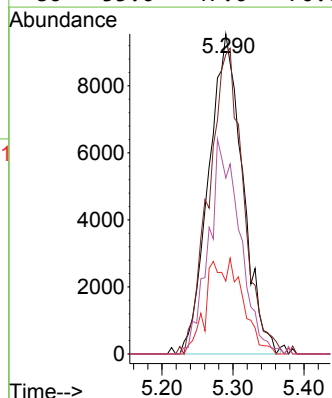
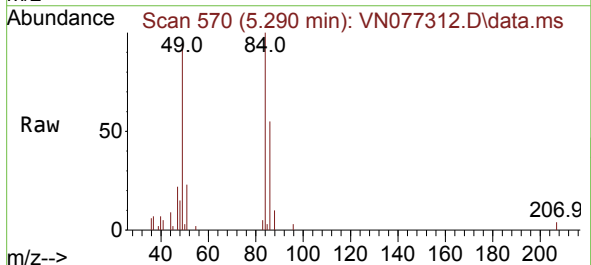
Instrument :
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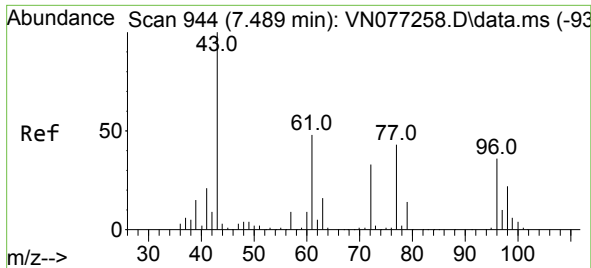
Tgt Ion: 43 Resp: 5607
Ion Ratio Lower Upper
43 100
74 9.5 23.4 35.2#



#20
Methylene Chloride
Concen: 4.413 ug/l
RT: 5.290 min Scan# 570
Delta R.T. -0.000 min
Lab File: VN077312.D
Acq: 12 Apr 2023 13:05

Tgt Ion: 84 Resp: 31787
Ion Ratio Lower Upper
84 100
49 91.9 80.6 121.0
51 22.7 24.4 36.6#
86 55.0 47.0 70.6

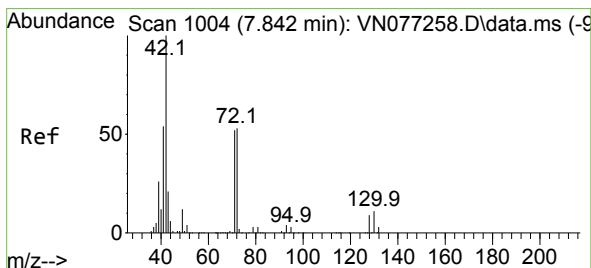
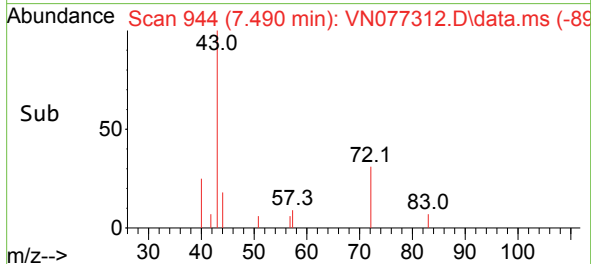
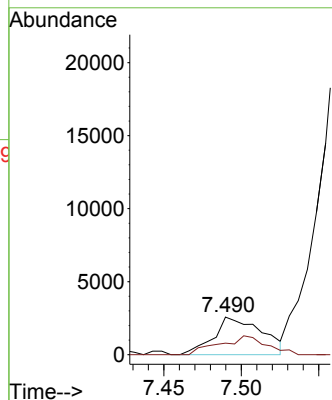
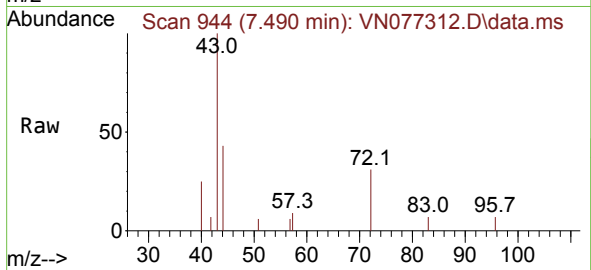




#25
2-Butanone
Concen: 1.346 ug/l
RT: 7.490 min Scan# 944
Delta R.T. 0.001 min
Lab File: VN077312.D
Acq: 12 Apr 2023 13:05

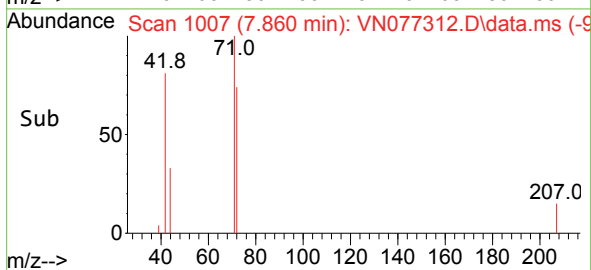
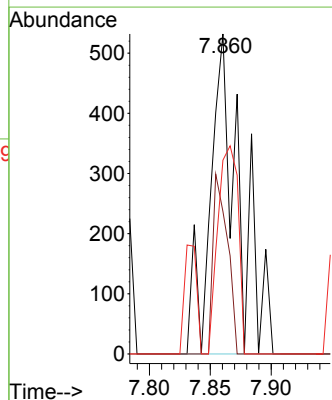
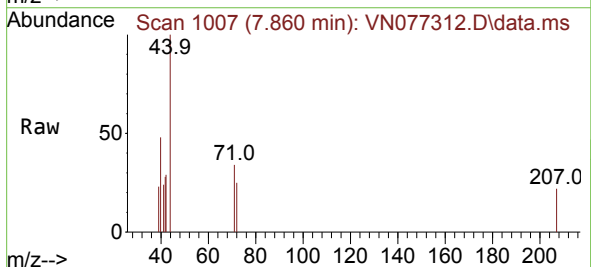
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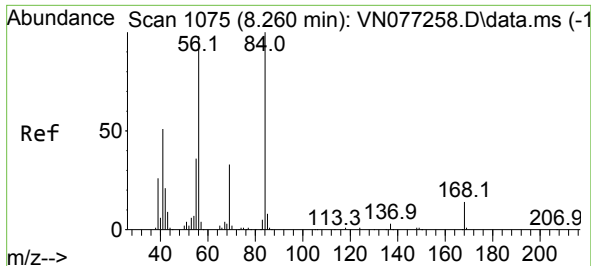
Tgt Ion: 43 Resp: 5571
Ion Ratio Lower Upper
43 100
72 30.9 26.6 39.8



#29
Tetrahydrofuran
Concen: 0.335 ug/l
RT: 7.860 min Scan# 1007
Delta R.T. 0.018 min
Lab File: VN077312.D
Acq: 12 Apr 2023 13:05

Tgt Ion: 42 Resp: 891
Ion Ratio Lower Upper
42 100
72 27.7 44.6 66.8#
71 45.0 41.3 61.9

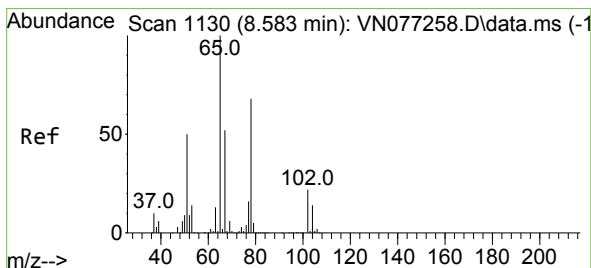
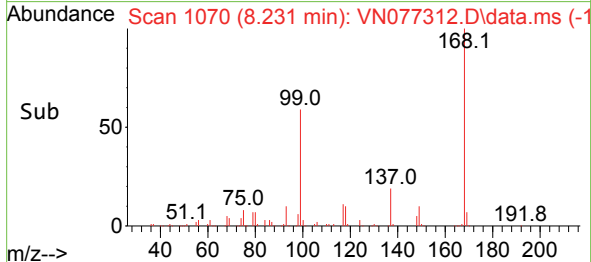
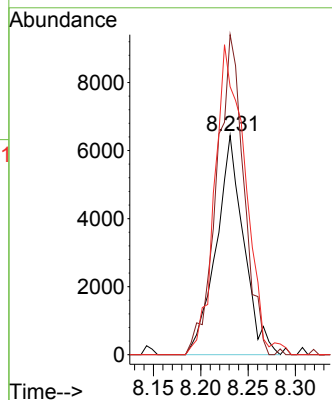
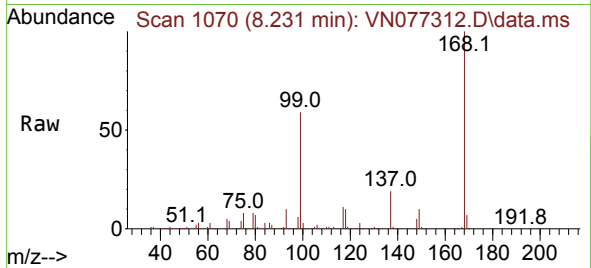




#31
Cyclohexane
Concen: 1.213 ug/l
RT: 8.231 min Scan# 1070
Delta R.T. -0.029 min
Lab File: VN077312.D
Acq: 12 Apr 2023 13:05

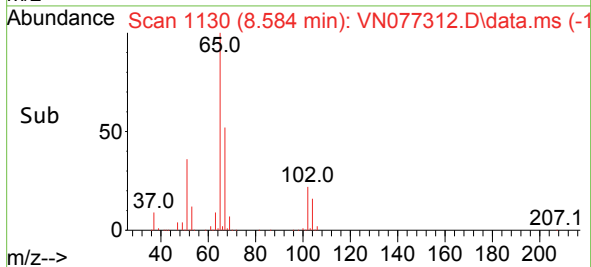
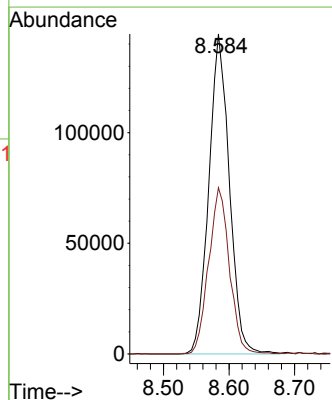
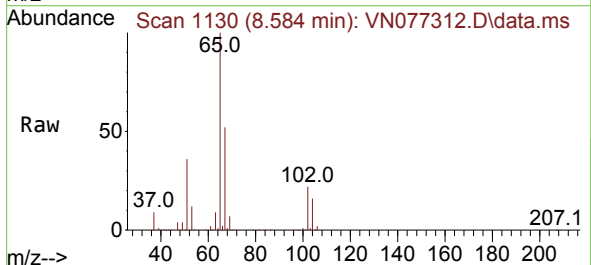
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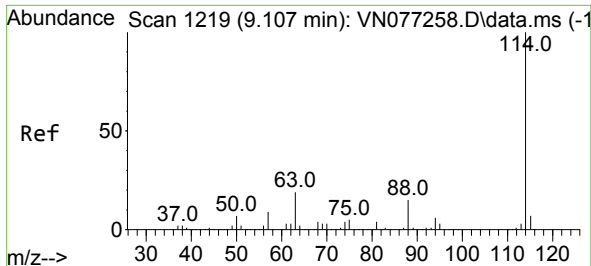
Tgt Ion: 56 Resp: 13041
Ion Ratio Lower Upper
56 100
69 146.0 26.6 40.0#
84 122.3 81.8 122.8



#33
1,2-Dichloroethane-d4
Concen: 45.434 ug/l
RT: 8.584 min Scan# 1130
Delta R.T. 0.001 min
Lab File: VN077312.D
Acq: 12 Apr 2023 13:05

Tgt Ion: 65 Resp: 314300
Ion Ratio Lower Upper
65 100
67 52.7 0.0 108.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.107 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN077312.D

Acq: 12 Apr 2023 13:05

Instrument :

MSVOA_N

ClientSampleId :

COAN5

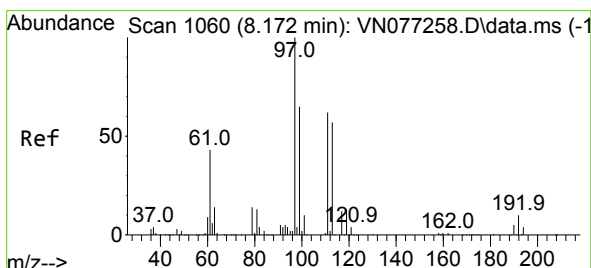
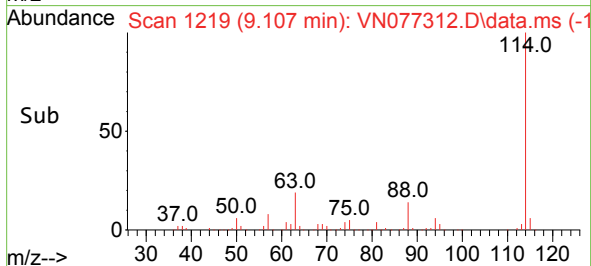
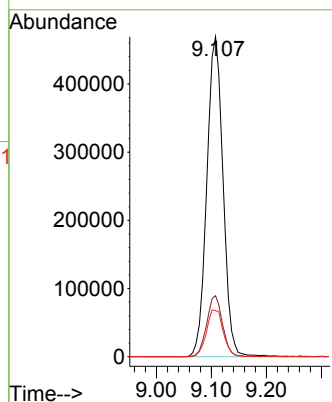
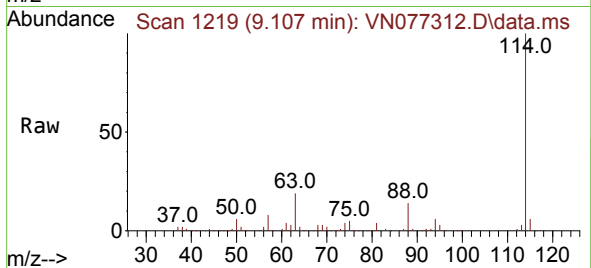
Tgt Ion:114 Resp: 963413

Ion Ratio Lower Upper

114 100

63 19.0 0.0 37.8

88 14.4 0.0 29.4



#35

Dibromofluoromethane

Concen: 46.349 ug/l

RT: 8.172 min Scan# 1060

Delta R.T. 0.000 min

Lab File: VN077312.D

Acq: 12 Apr 2023 13:05

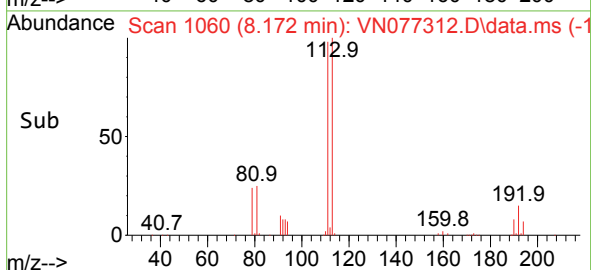
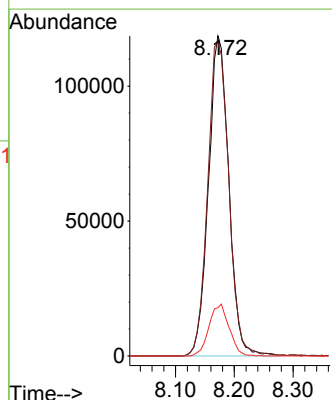
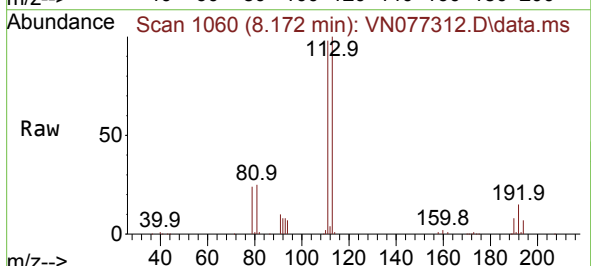
Tgt Ion:113 Resp: 285856

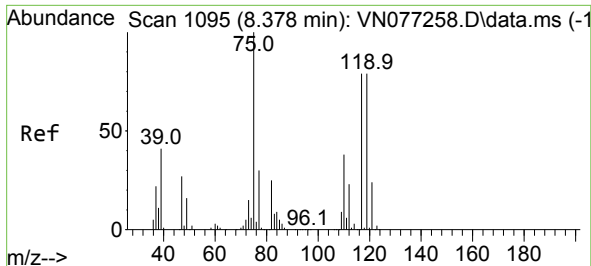
Ion Ratio Lower Upper

113 100

111 102.0 83.4 125.0

192 16.0 13.5 20.3





#36

1,1-Dichloropropene

Concen: 4.890 ug/l

RT: 8.231 min Scan# 1095

Delta R.T. -0.147 min

Lab File: VN077312.D

Acq: 12 Apr 2023 13:05

Instrument :

MSVOA_N

ClientSampleId :

COAN5

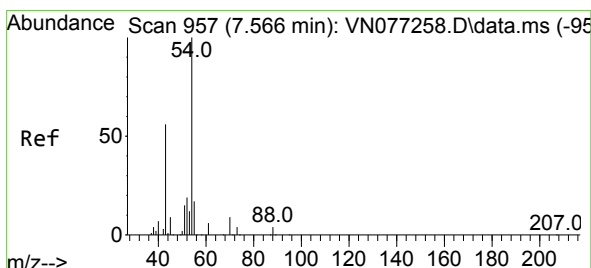
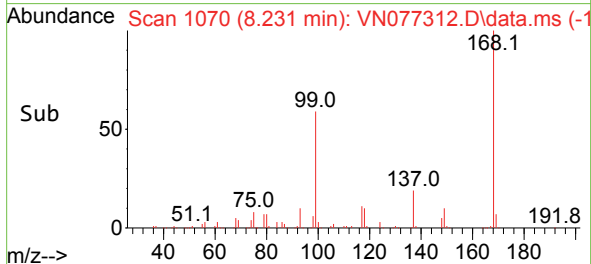
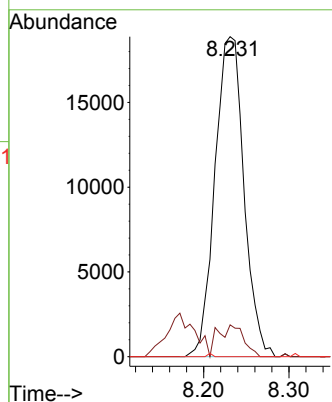
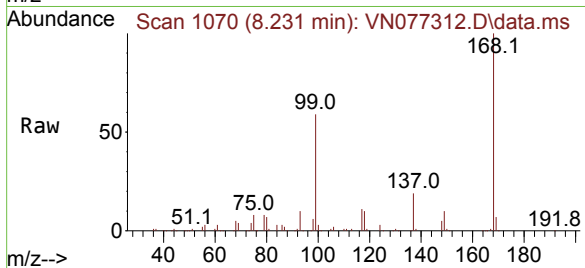
Tgt Ion: 75 Resp: 44604

Ion Ratio Lower Upper

75 100

110 8.8 17.8 53.5#

77 0.0 25.0 37.4#



#37

Ethyl Acetate

Concen: 7.672 ug/l

RT: 7.572 min Scan# 958

Delta R.T. 0.006 min

Lab File: VN077312.D

Acq: 12 Apr 2023 13:05

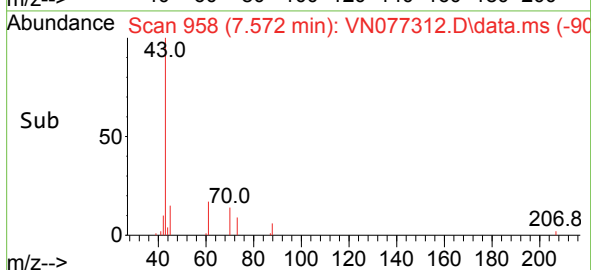
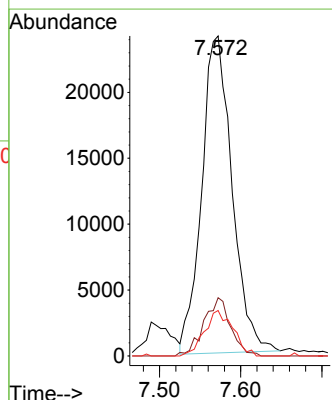
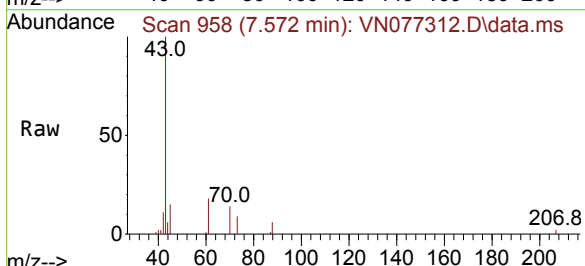
Tgt Ion: 43 Resp: 62617

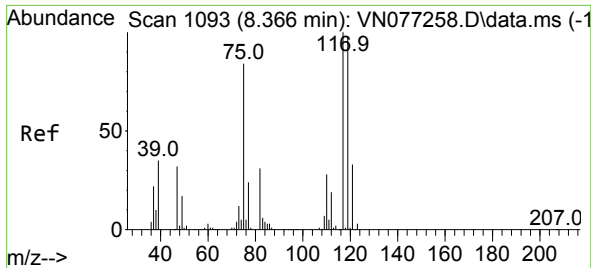
Ion Ratio Lower Upper

43 100

61 16.2 12.2 18.2

70 13.5 10.0 15.0

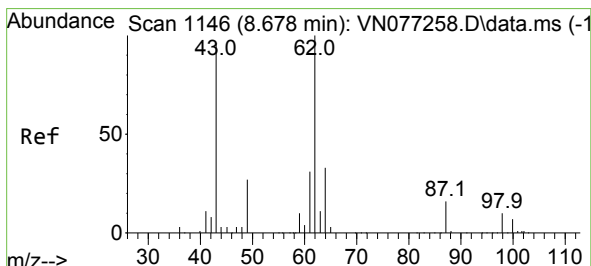
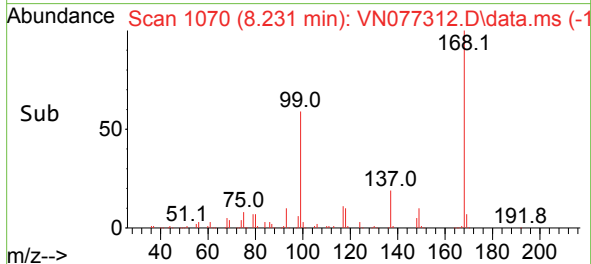
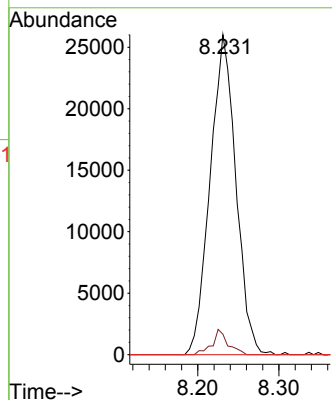
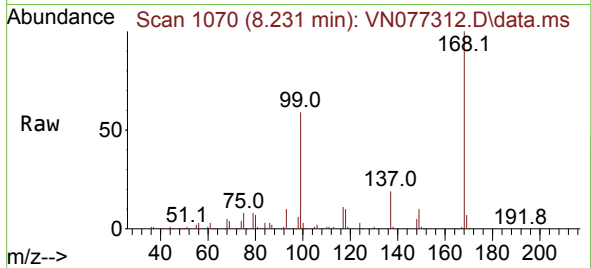




#38
Carbon Tetrachloride
Concen: 6.139 ug/l
RT: 8.231 min Scan# 1107
Delta R.T. -0.135 min
Lab File: VN077312.D
Acq: 12 Apr 2023 13:05

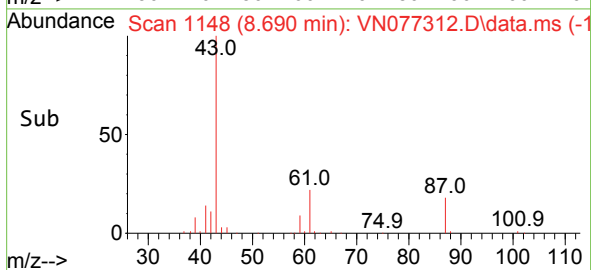
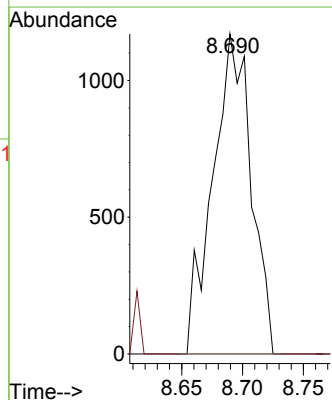
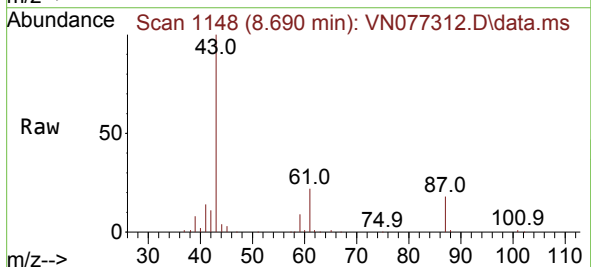
Instrument :
MSVOA_N
ClientSampleId :
COAN5

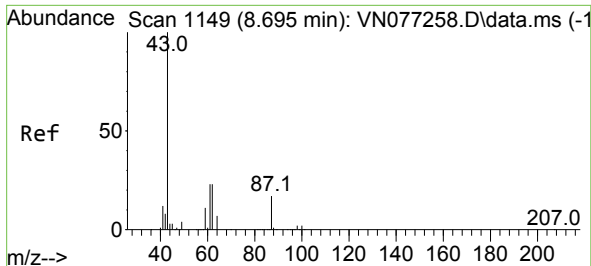
Tgt Ion:117 Resp: 57370
Ion Ratio Lower Upper
117 100
119 6.4 78.5 117.7#
121 0.0 26.6 40.0#



#42
1,2-Dichloroethane
Concen: 0.293 ug/l
RT: 8.690 min Scan# 1148
Delta R.T. 0.012 min
Lab File: VN077312.D
Acq: 12 Apr 2023 13:05

Tgt Ion: 62 Resp: 2567
Ion Ratio Lower Upper
62 100
98 0.0 0.0 20.2

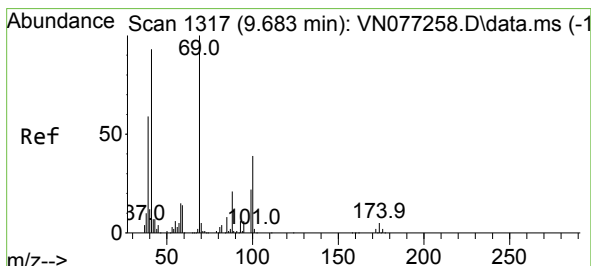
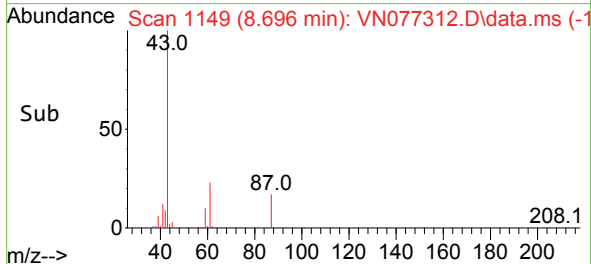
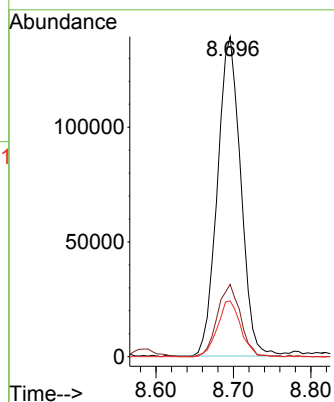
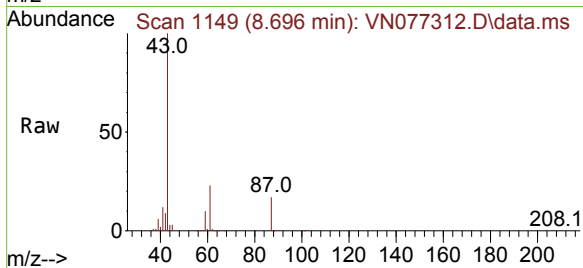




#43
Isopropyl Acetate
Concen: 19.320 ug/l
RT: 8.696 min Scan# 1149
Delta R.T. 0.001 min
Lab File: VN077312.D
Acq: 12 Apr 2023 13:05

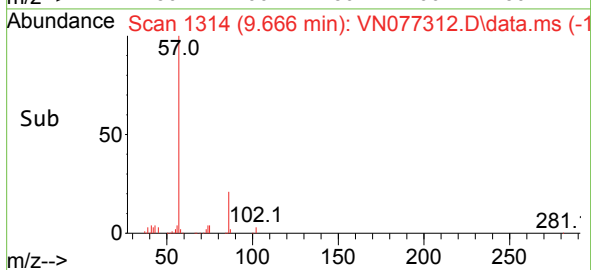
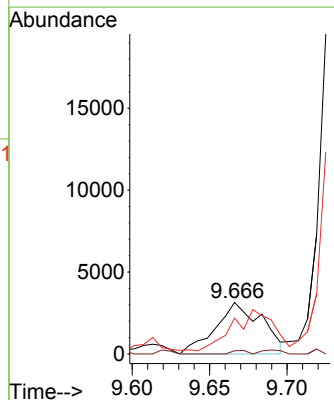
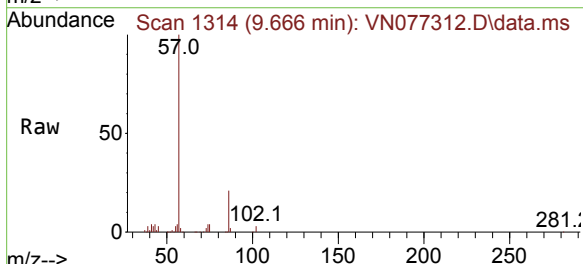
Instrument :
MSVOA_N
ClientSampleId :
COAN5

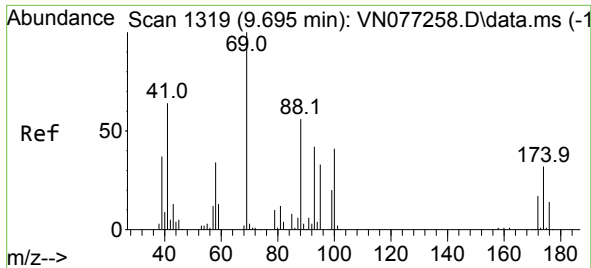
Tgt Ion: 43 Resp: 290945
Ion Ratio Lower Upper
43 100
61 22.6 22.7 34.1#
87 17.5 13.6 20.4



#48
Methyl methacrylate
Concen: 1.018 ug/l
RT: 9.666 min Scan# 1314
Delta R.T. -0.017 min
Lab File: VN077312.D
Acq: 12 Apr 2023 13:05

Tgt Ion: 41 Resp: 6540
Ion Ratio Lower Upper
41 100
69 2.2 85.0 127.6#
39 70.2 53.5 80.3





#49

1,4-Dioxane

Concen: 0.610 ug/l

RT: 9.672 min Scan# 11

Delta R.T. -0.023 min

Lab File: VN077312.D

Acq: 12 Apr 2023 13:05

Instrument :

MSVOA_N

ClientSampleId :

COAN5

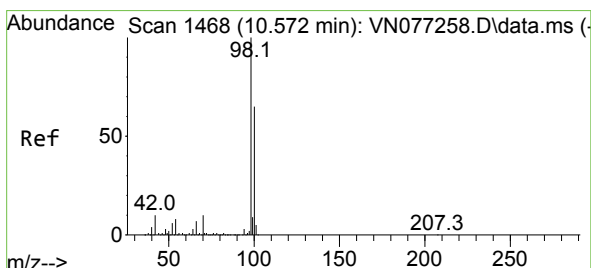
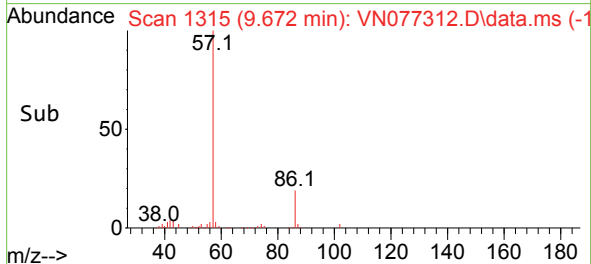
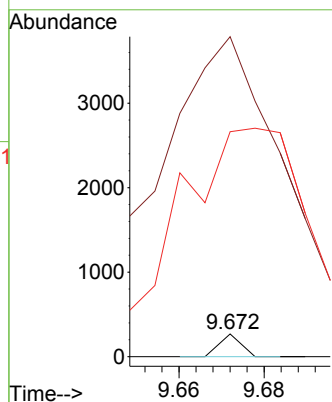
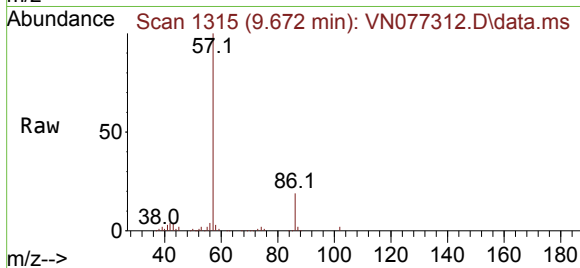
Tgt Ion: 88 Resp: 95

Ion Ratio Lower Upper

88 100

43 0.0 17.0 25.6#

58 6687.4 49.8 74.6#



#50

Toluene-d8

Concen: 48.304 ug/l

RT: 10.572 min Scan# 1468

Delta R.T. -0.000 min

Lab File: VN077312.D

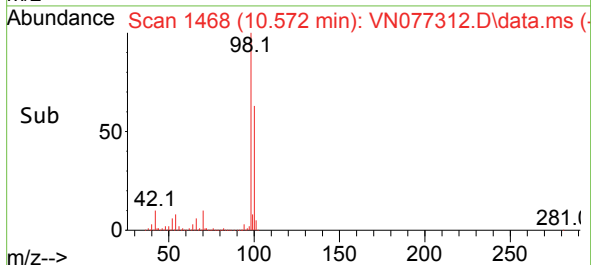
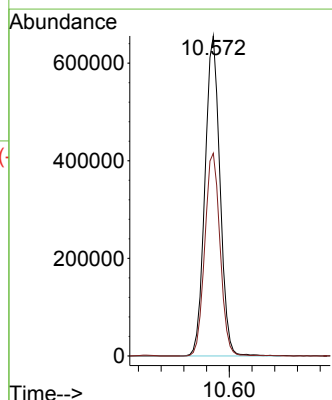
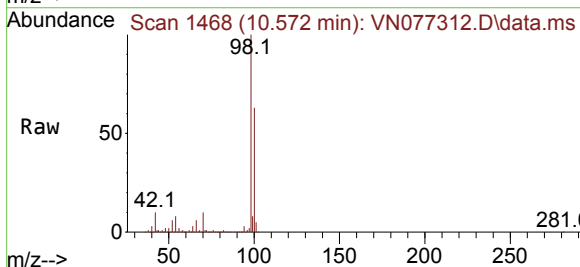
Acq: 12 Apr 2023 13:05

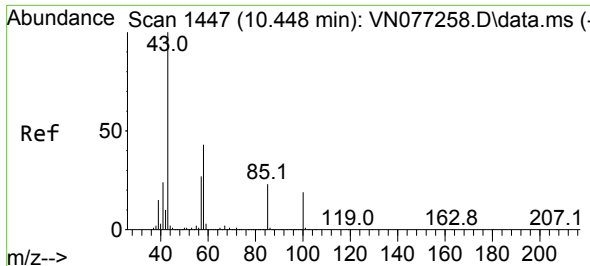
Tgt Ion: 98 Resp: 1199312

Ion Ratio Lower Upper

98 100

100 64.5 51.3 76.9

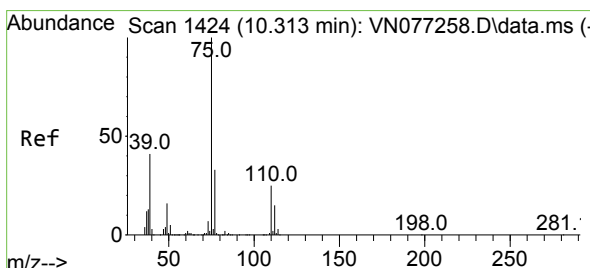
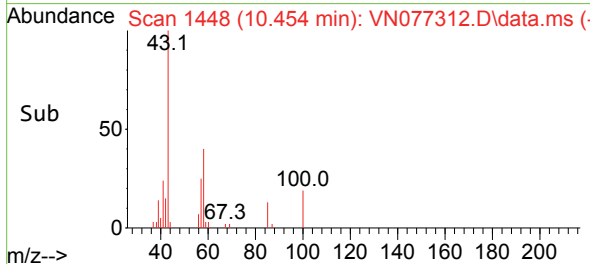
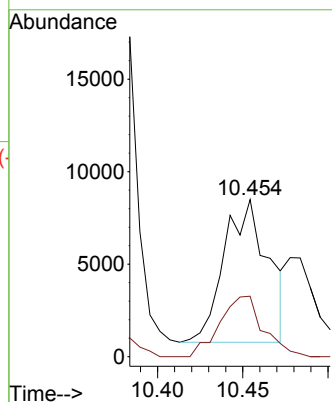
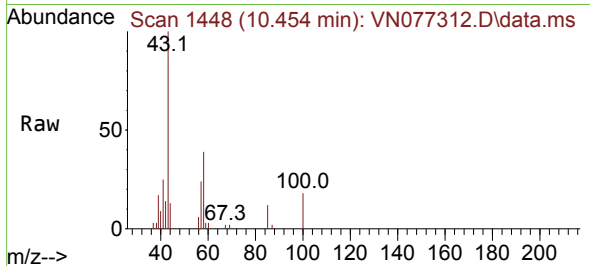




#51
4-Methyl-2-Pentanone
Concen: 1.591 ug/l
RT: 10.454 min Scan# 1448
Delta R.T. 0.006 min
Lab File: VN077312.D
Acq: 12 Apr 2023 13:05

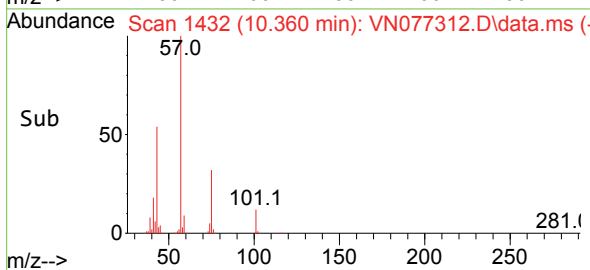
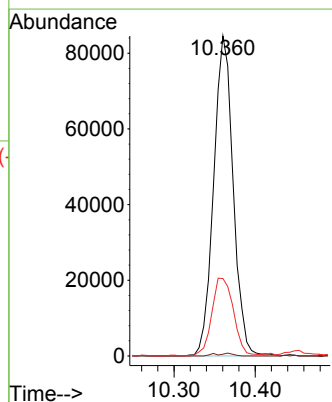
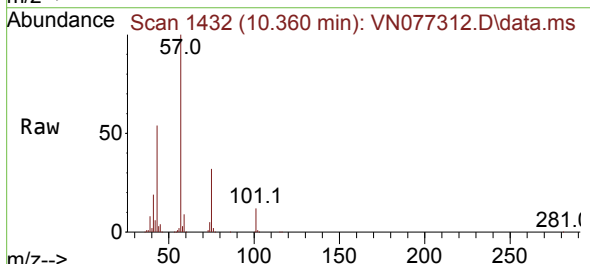
Instrument :
MSVOA_N
ClientSampleId :
COAN5

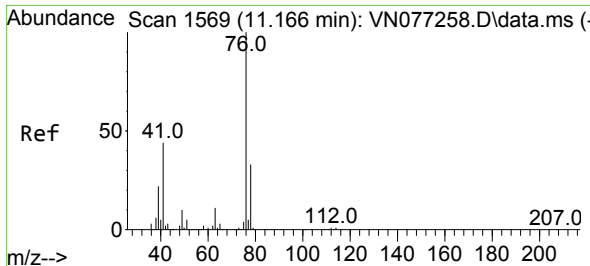
Tgt Ion: 43 Resp: 13852
Ion Ratio Lower Upper
43 100
58 41.9 34.6 52.0



#54
cis-1,3-Dichloropropene
Concen: 12.012 ug/l
RT: 10.360 min Scan# 1432
Delta R.T. 0.047 min
Lab File: VN077312.D
Acq: 12 Apr 2023 13:05

Tgt Ion: 75 Resp: 141383
Ion Ratio Lower Upper
75 100
77 0.5 26.7 40.1#
39 24.2 32.8 49.2#





#57

1,3-Dichloropropane

Concen: 1.065 ug/l

RT: 11.207 min Scan# 1576

Delta R.T. 0.041 min

Lab File: VN077312.D

Acq: 12 Apr 2023 13:05

Instrument :

MSVOA_N

ClientSampleId :

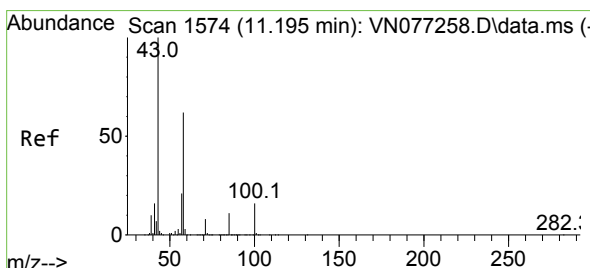
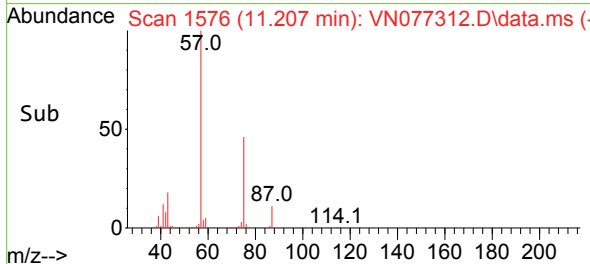
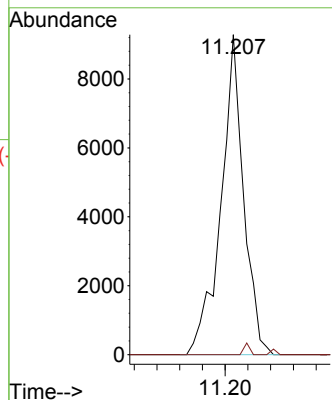
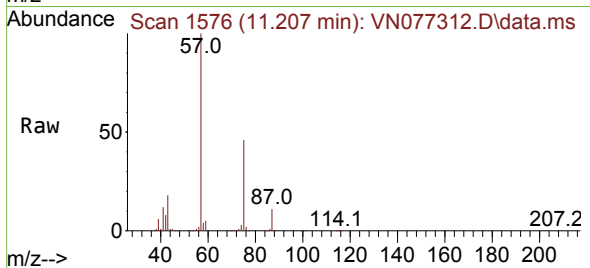
COAN5

Tgt Ion: 76 Resp: 12868

Ion Ratio Lower Upper

76 100

78 0.9 26.2 39.4#



#59

2-Hexanone

Concen: 63.880 ug/l

RT: 11.172 min Scan# 1570

Delta R.T. -0.023 min

Lab File: VN077312.D

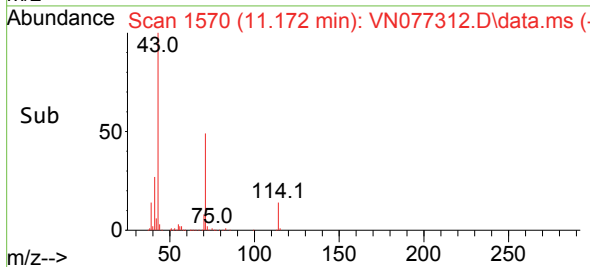
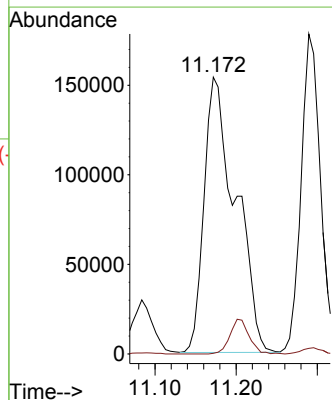
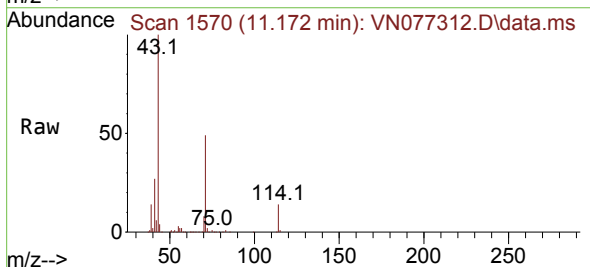
Acq: 12 Apr 2023 13:05

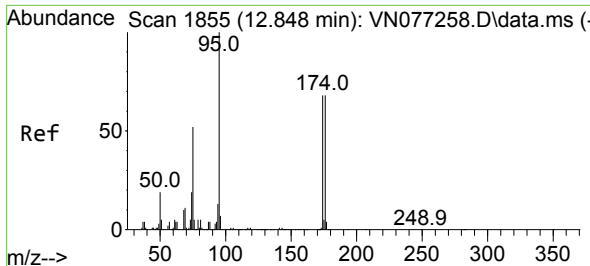
Tgt Ion: 43 Resp: 414265

Ion Ratio Lower Upper

43 100

58 0.0 30.9 92.5#

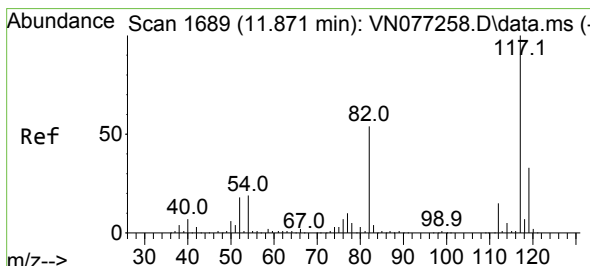
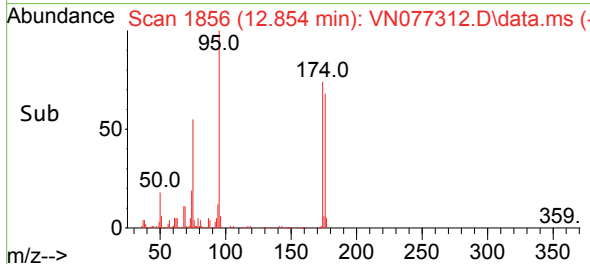
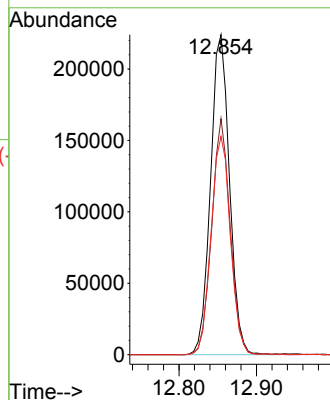
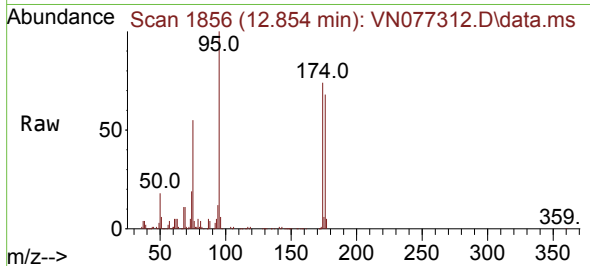




#62
4-Bromofluorobenzene
Concen: 46.087 ug/l
RT: 12.854 min Scan# 1855
Delta R.T. 0.006 min
Lab File: VN077312.D
Acq: 12 Apr 2023 13:05

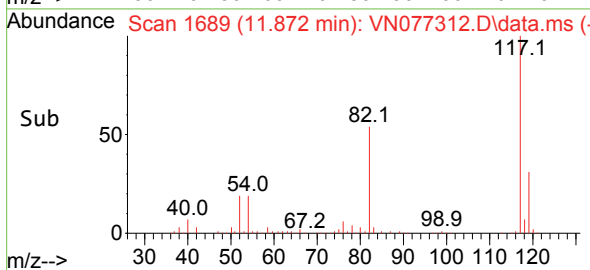
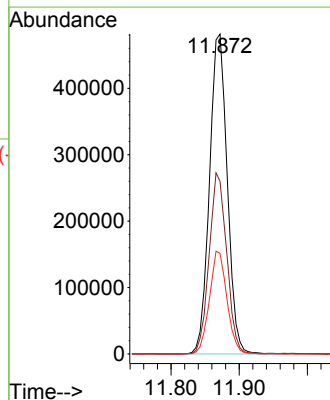
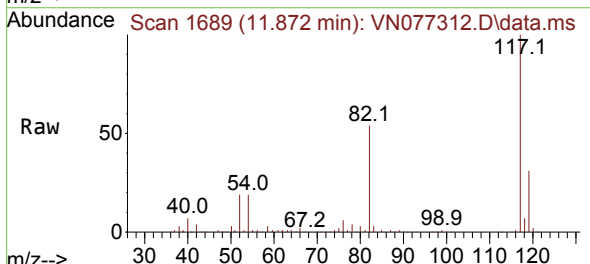
Instrument :
MSVOA_N
ClientSampleId :
COAN5

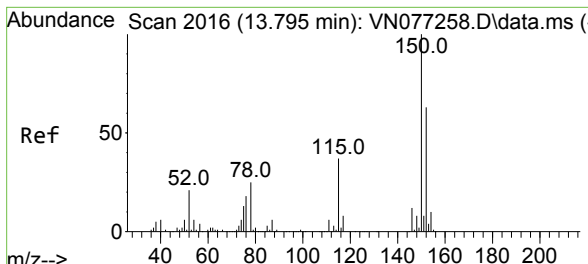
Tgt Ion: 95 Resp: 380567
Ion Ratio Lower Upper
95 100
174 71.8 0.0 146.8
176 69.4 0.0 139.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.872 min Scan# 1689
Delta R.T. 0.001 min
Lab File: VN077312.D
Acq: 12 Apr 2023 13:05

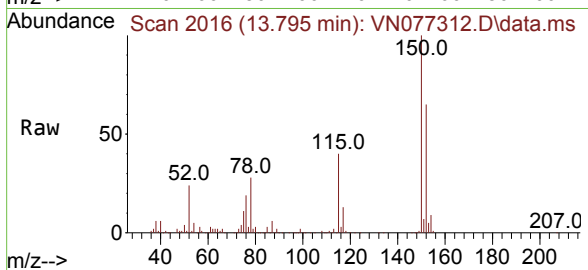
Tgt Ion: 117 Resp: 874002
Ion Ratio Lower Upper
117 100
82 53.9 42.9 64.3
119 31.4 26.2 39.4



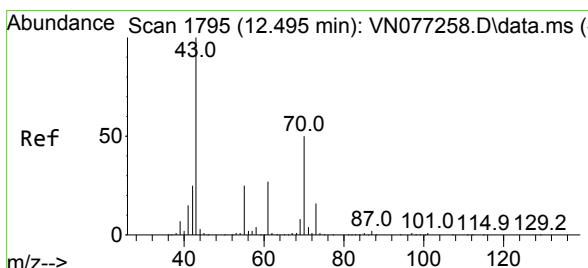
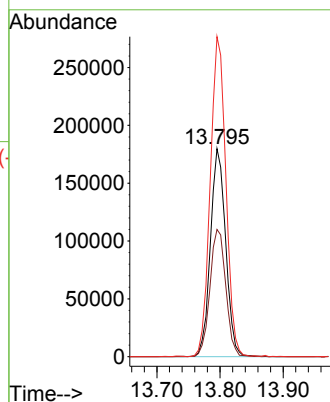
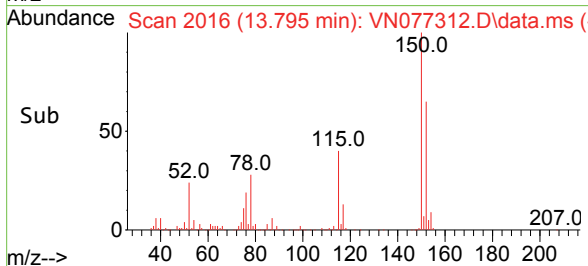


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.795 min Scan# 2016
Delta R.T. 0.000 min
Lab File: VN077312.D
Acq: 12 Apr 2023 13:05

Instrument :
MSVOA_N
ClientSampleId :
COAN5

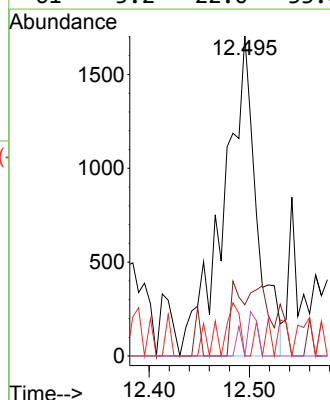
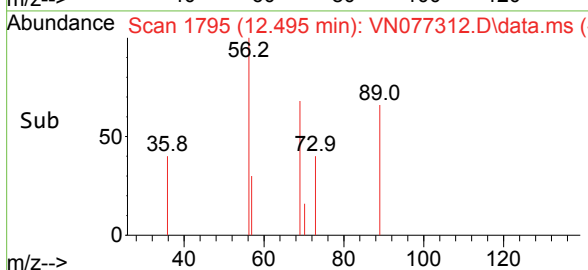
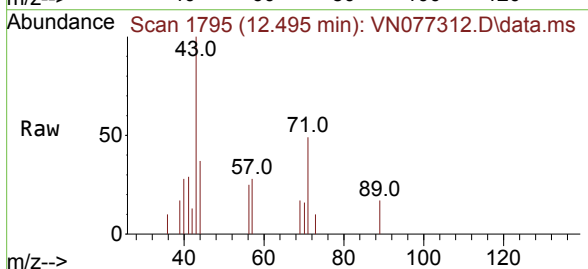


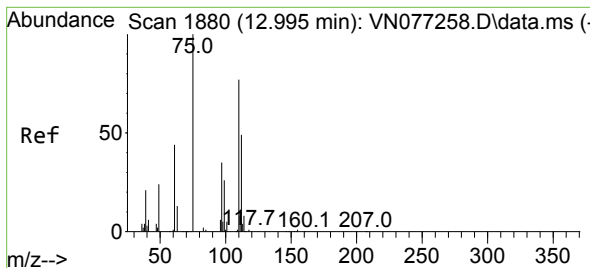
Tgt Ion:152 Resp: 302245
Ion Ratio Lower Upper
152 100
115 63.5 32.1 96.3
150 157.3 0.0 354.8



#74
N-ethyl acetate
Concen: 0.352 ug/l
RT: 12.495 min Scan# 1795
Delta R.T. 0.000 min
Lab File: VN077312.D
Acq: 12 Apr 2023 13:05

Tgt Ion: 43 Resp: 3917
Ion Ratio Lower Upper
43 100
70 8.9 41.0 61.6#
55 7.8 19.3 28.9#
61 5.2 22.0 33.0#





#76

1,2,3-Trichloropropane

Concen: 28.539 ug/l

RT: 12.854 min Scan# 1856

Delta R.T. -0.141 min

Lab File: VN077312.D

Acq: 12 Apr 2023 13:05

Instrument :

MSVOA_N

ClientSampleId :

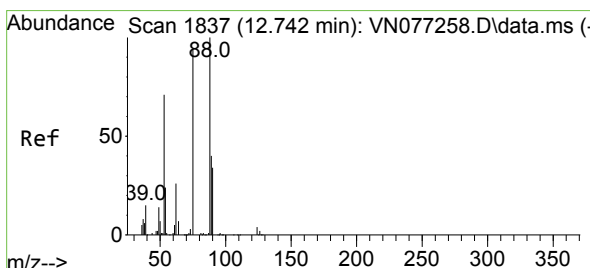
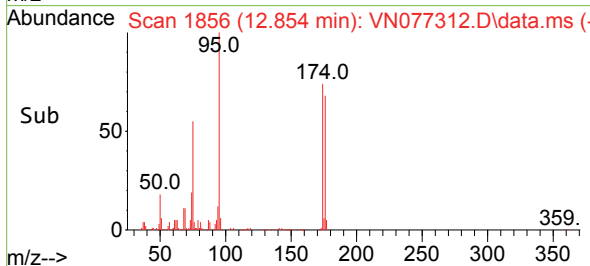
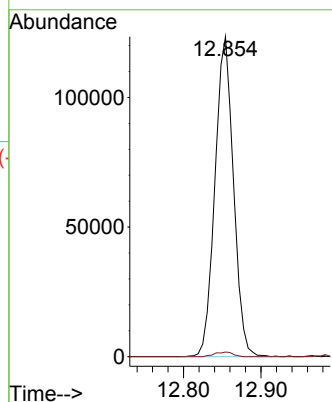
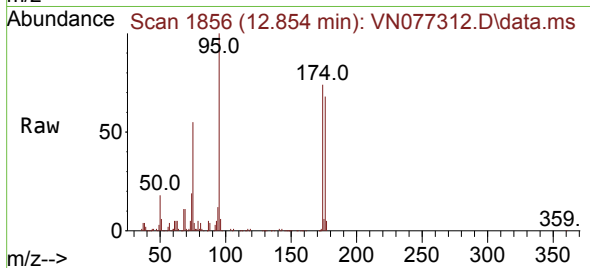
COAN5

Tgt Ion: 75 Resp: 205402

Ion Ratio Lower Upper

75 100

77 1.4 88.3 264.9#



#81

trans-1,4-Dichloro-2-butene

Concen: 64.222 ug/l

RT: 12.854 min Scan# 1856

Delta R.T. 0.112 min

Lab File: VN077312.D

Acq: 12 Apr 2023 13:05

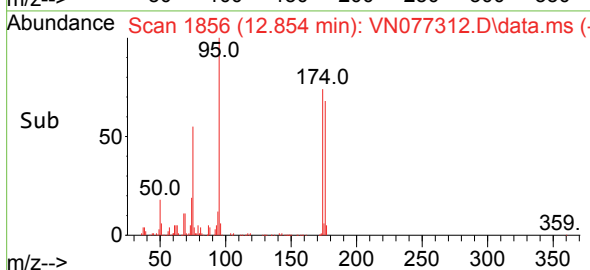
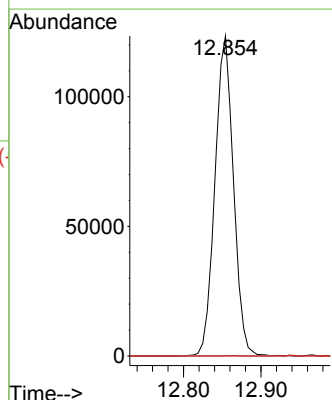
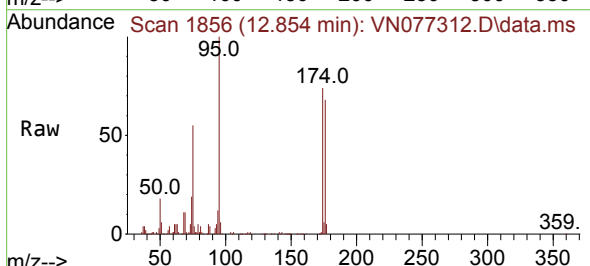
Tgt Ion: 75 Resp: 205402

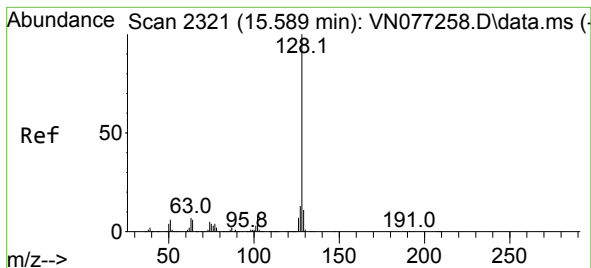
Ion Ratio Lower Upper

75 100

53 0.0 72.8 109.2#

89 0.0 37.4 56.2#





#95

Naphthalene

Concen: 0.341 ug/l

RT: 15.595 min Scan# 21

Delta R.T. 0.006 min

Lab File: VN077312.D

Acq: 12 Apr 2023 13:05

Instrument :

MSVOA_N

ClientSampleId :

COAN5

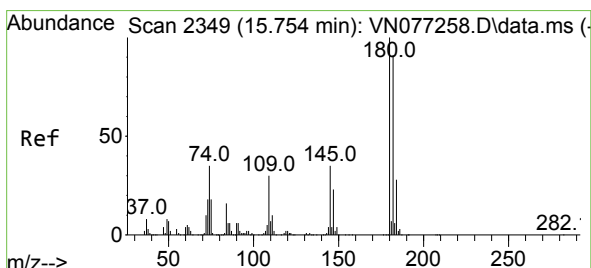
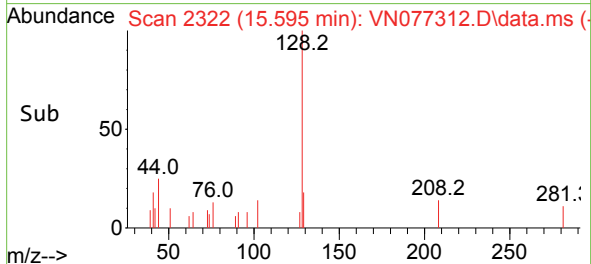
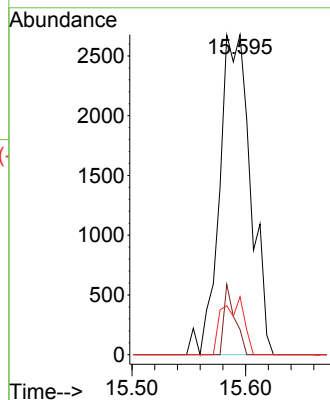
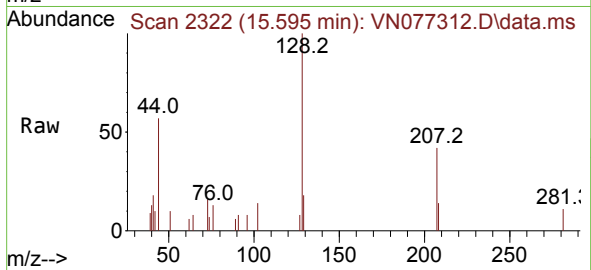
Tgt Ion:128 Resp: 5113

Ion Ratio Lower Upper

128 100

127 7.7 10.2 15.4#

129 12.4 8.9 13.3



#96

1,2,3-Trichlorobenzene

Concen: 0.296 ug/l

RT: 15.760 min Scan# 2350

Delta R.T. 0.006 min

Lab File: VN077312.D

Acq: 12 Apr 2023 13:05

Tgt Ion:180 Resp: 1131

Ion Ratio Lower Upper

180 100

182 109.9 46.9 140.8

145 12.6 17.6 52.8#

