

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091322\
 Data File : VN074433.D
 Acq On : 13 Sep 2022 15:13
 Operator : JC\MD
 Sample : N4580-01 50X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 CO-1

Quant Time: Sep 13 17:17:19 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N090922W.M
 Quant Title : SW846 8260
 QLast Update : Sat Sep 10 06:10:29 2022
 Response via : Initial Calibration

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

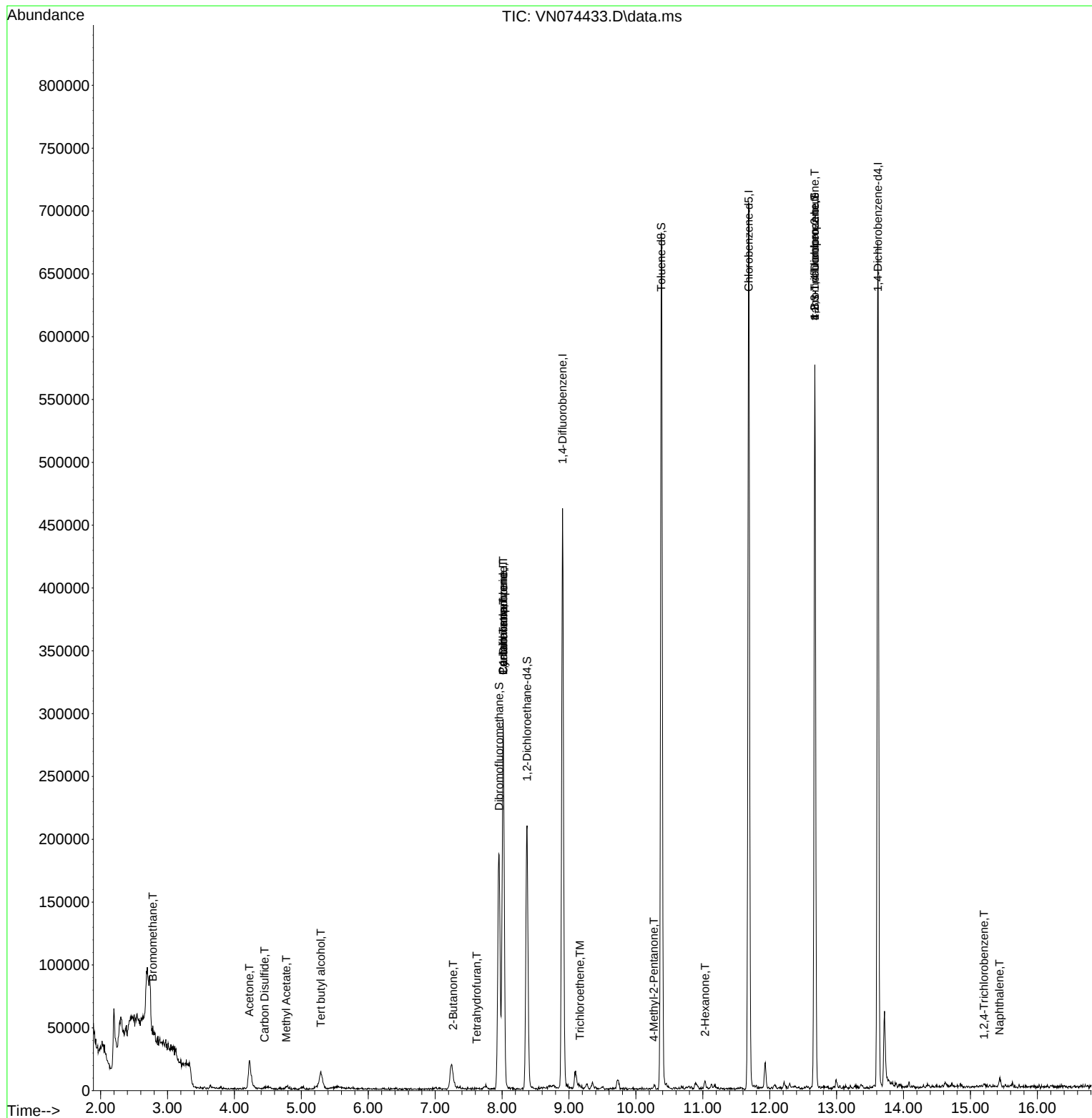
Internal Standards						
1) Pentafluorobenzene	8.016	168	193642	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.904	114	352773	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.686	117	347101	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.616	152	154949	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.375	65	164963	49.238	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	98.480%		
35) Dibromofluoromethane	7.957	113	130341	54.729	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	109.460%		
50) Toluene-d8	10.380	98	445829	48.044	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	96.080%		
62) 4-Bromofluorobenzene	12.674	95	170014	50.462	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	100.920%		
Target Compounds						Qvalue
3) Chloromethane	2.263	50	1460	Below Cal		94
5) Bromomethane	2.781	94	740	0.253 ug/l #		41
6) Chloroethane	3.034	64	4911	Below Cal #		46
11) Tert butyl alcohol	5.293	59	23598	26.929 ug/l #		90
16) Acetone	4.222	43	40253	22.255 ug/l		99
17) Carbon Disulfide	4.451	76	1477	0.225 ug/l #		73
18) Methyl Acetate	4.775	43	2936	0.551 ug/l #		83
20) Methylene Chloride	5.016	84	969	Below Cal #		67
25) 2-Butanone	7.269	43	10434	3.437 ug/l		99
29) Tetrahydrofuran	7.622	42	845	0.421 ug/l #		44
31) Cyclohexane	8.016	56	6797	1.276 ug/l #		57
36) 1,1-Dichloropropene	8.016	75	21070	5.370 ug/l #		46
38) Carbon Tetrachloride	8.016	117	21452	5.296 ug/l #		15
44) Trichloroethene	9.163	130	559	0.208 ug/l		88
51) 4-Methyl-2-Pentanone	10.269	43	2217	0.364 ug/l		92
59) 2-Hexanone	11.033	43	4534	0.965 ug/l		95
74) N-amyl acetate	12.363	43	792	Below Cal #		49
76) 1,2,3-Trichloropropane	12.674	75	107719	26.593 ug/l #		1
81) trans-1,4-Dichloro-2-b...	12.674	75	107719	59.275 ug/l #		9
92) 1,2-Dibromo-3-Chloropr...	14.568	75	257	Below Cal #		39
93) 1,2,4-Trichlorobenzene	15.204	180	993	0.321 ug/l #		64
95) Naphthalene	15.433	128	5521	0.456 ug/l #		84

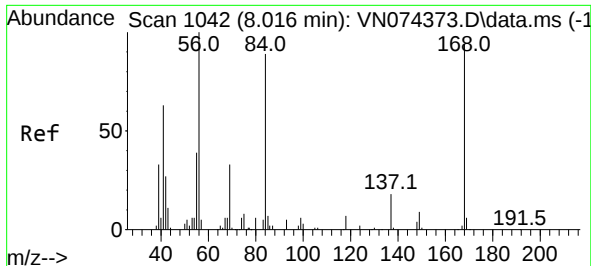
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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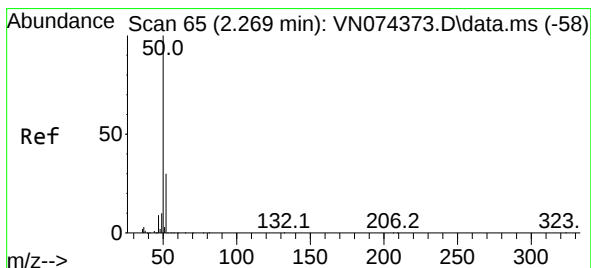
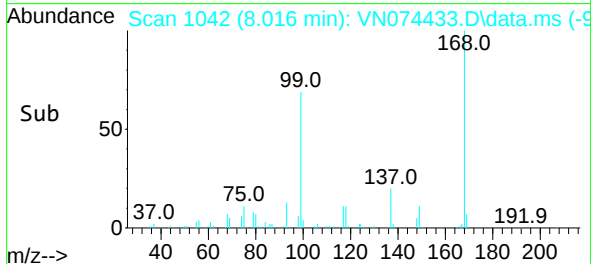
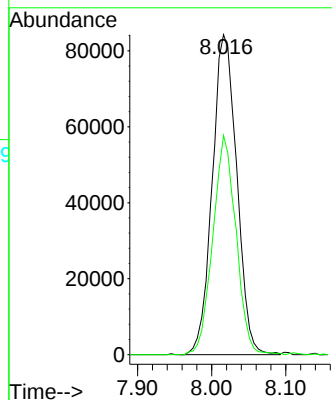
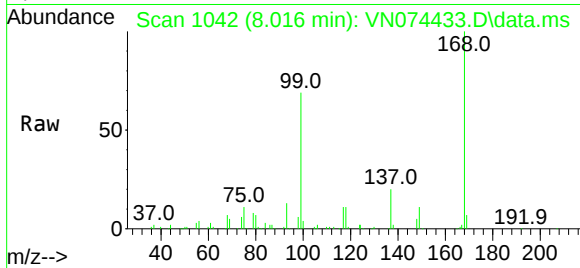




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.016 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN074433.D
Acq: 13 Sep 2022 15:13

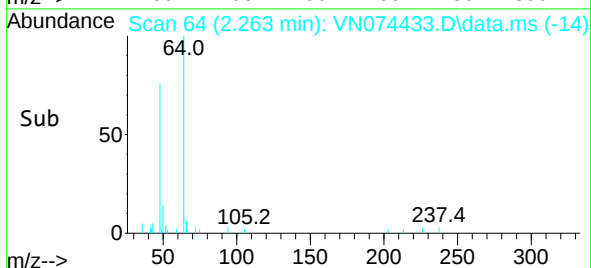
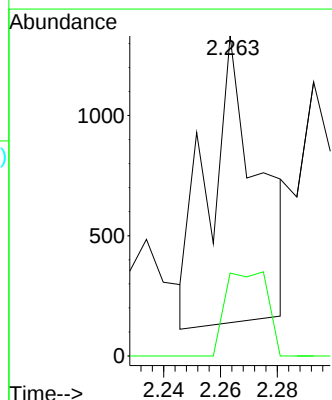
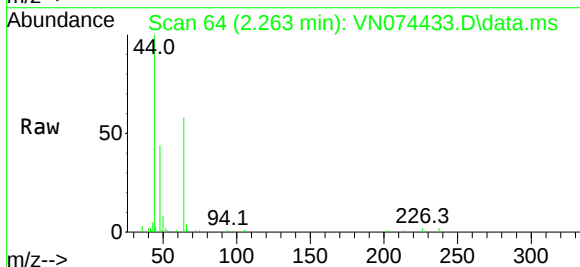
Instrument :
MSVOA_N
ClientSampleId :
CO-1

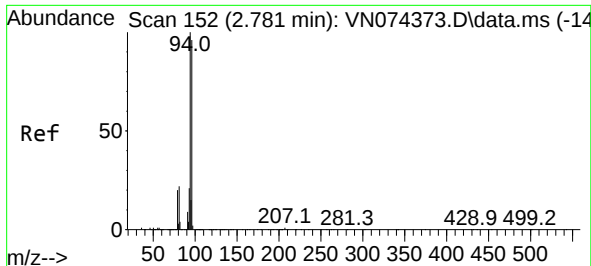
Tgt Ion:168 Resp: 193642
Ion Ratio Lower Upper
168 100
99 68.5 52.8 79.2



#3
Chloromethane
Concen: Below Cal
RT: 2.263 min Scan# 64
Delta R.T. -0.006 min
Lab File: VN074433.D
Acq: 13 Sep 2022 15:13

Tgt Ion: 50 Resp: 1460
Ion Ratio Lower Upper
50 100
52 33.4 24.1 36.1

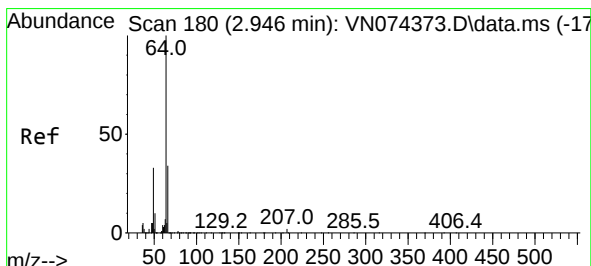
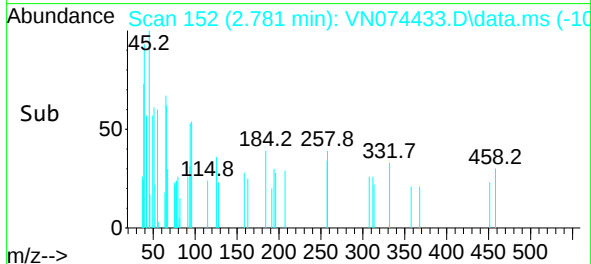
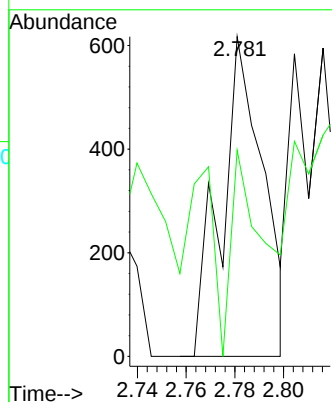
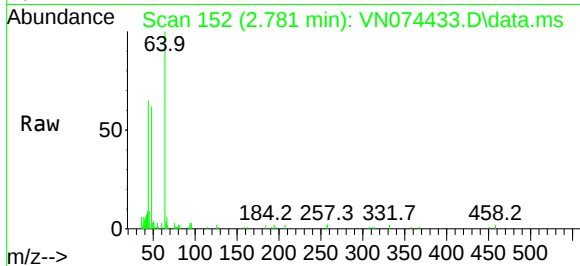




#5
Bromomethane
Concen: 0.253 ug/l
RT: 2.781 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN074433.D
Acq: 13 Sep 2022 15:13

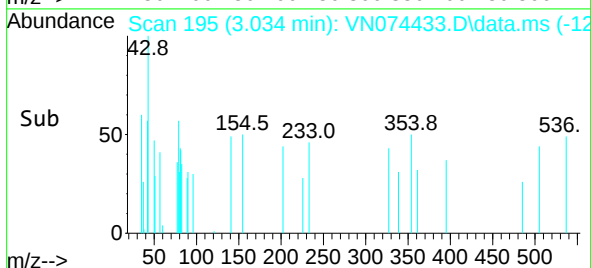
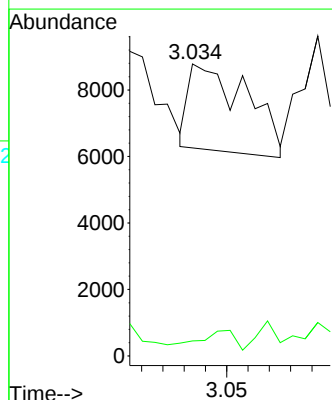
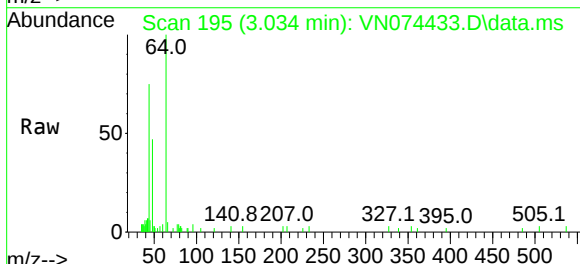
Instrument :
MSVOA_N
ClientSampleId :
CO-1

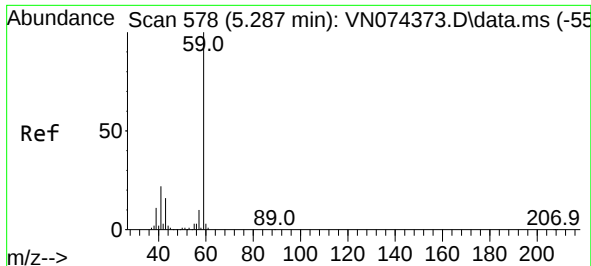
Tgt Ion: 94 Resp: 740
Ion Ratio Lower Upper
94 100
96 38.6 76.7 115.1#



#6
Chloroethane
Concen: Below Cal
RT: 3.034 min Scan# 195
Delta R.T. 0.088 min
Lab File: VN074433.D
Acq: 13 Sep 2022 15:13

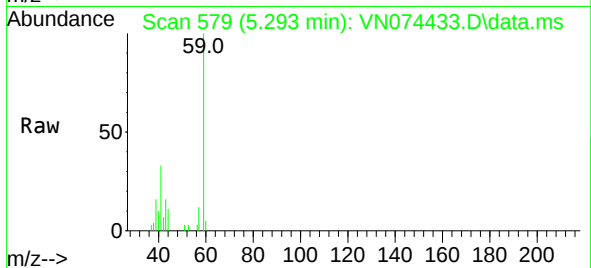
Tgt Ion: 64 Resp: 4911
Ion Ratio Lower Upper
64 100
66 2.7 26.5 39.7#



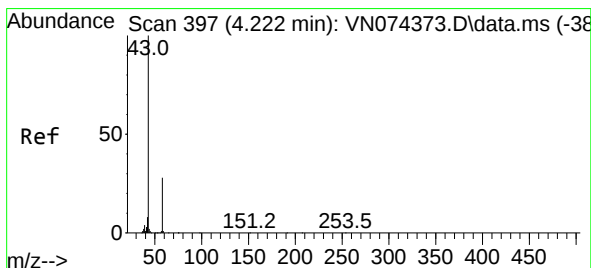
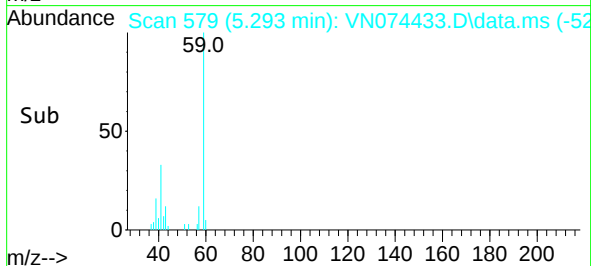
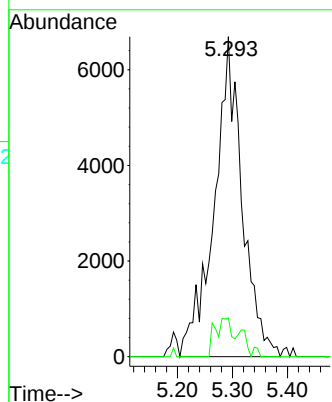


#11
Tert butyl alcohol
Concen: 26.929 ug/l
RT: 5.293 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN074433.D
Acq: 13 Sep 2022 15:13

Instrument :
MSVOA_N
ClientSampleId :
CO-1

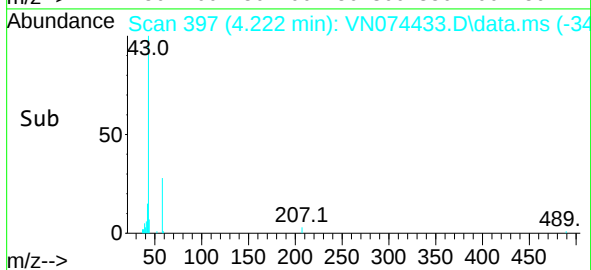
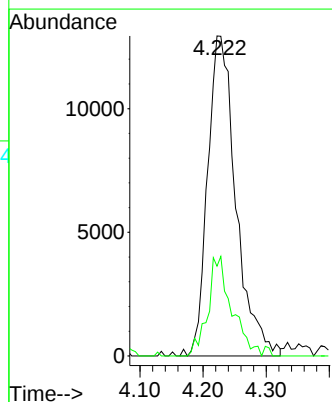
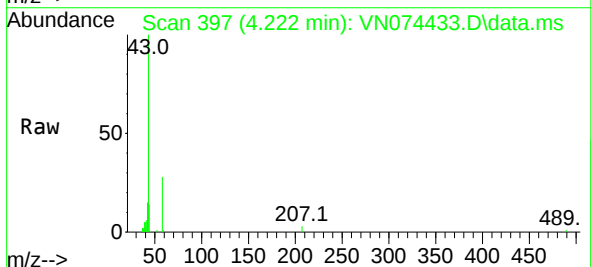


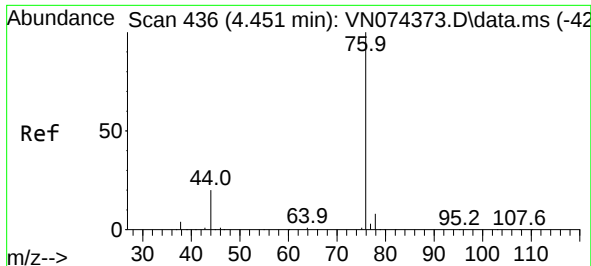
Tgt Ion: 59 Resp: 23598
Ion Ratio Lower Upper
59 100
57 7.3 8.8 13.2#



#16
Acetone
Concen: 22.255 ug/l
RT: 4.222 min Scan# 397
Delta R.T. 0.000 min
Lab File: VN074433.D
Acq: 13 Sep 2022 15:13

Tgt Ion: 43 Resp: 40253
Ion Ratio Lower Upper
43 100
58 28.1 22.7 34.1

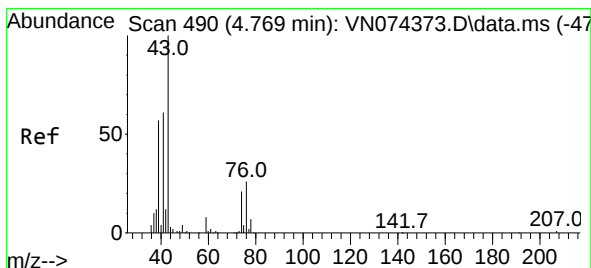
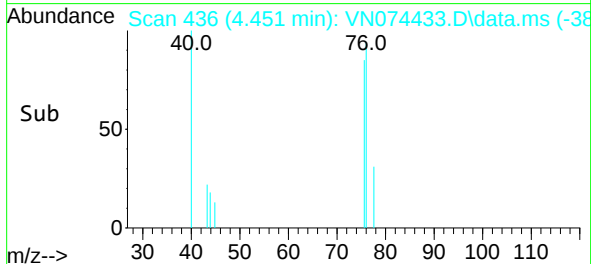
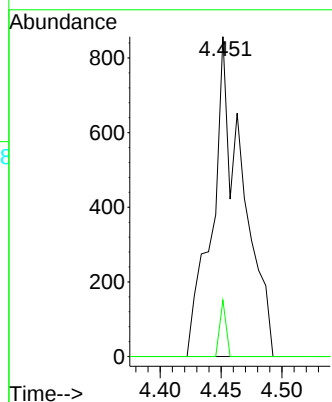
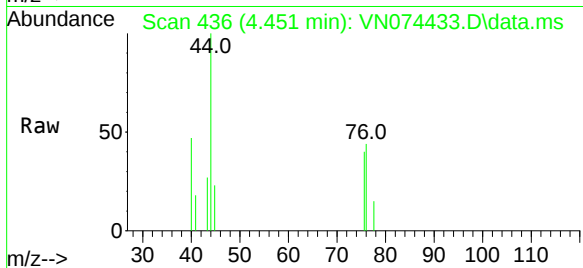




#17
Carbon Disulfide
Concen: 0.225 ug/l
RT: 4.451 min Scan# 411
Delta R.T. 0.000 min
Lab File: VN074433.D
Acq: 13 Sep 2022 15:13

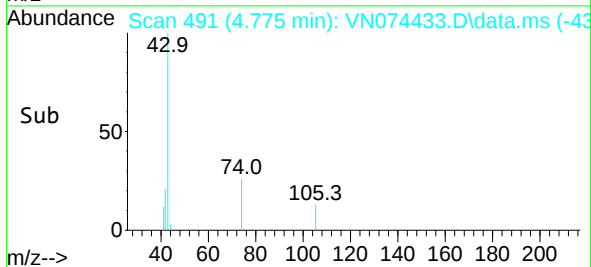
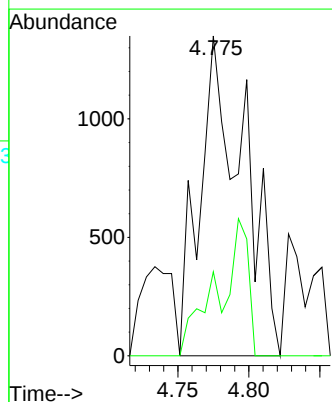
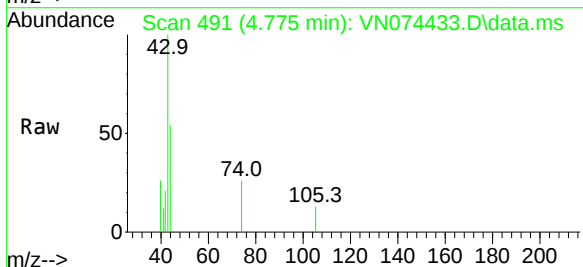
Instrument :
MSVOA_N
ClientSampleId :
CO-1

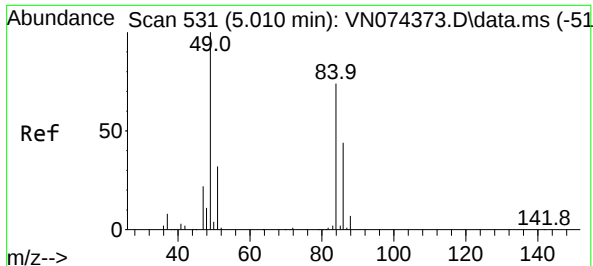
Tgt Ion: 76 Resp: 1477
Ion Ratio Lower Upper
76 100
78 17.6 6.5 9.7#



#18
Methyl Acetate
Concen: 0.551 ug/l
RT: 4.775 min Scan# 491
Delta R.T. 0.006 min
Lab File: VN074433.D
Acq: 13 Sep 2022 15:13

Tgt Ion: 43 Resp: 2936
Ion Ratio Lower Upper
43 100
74 29.0 16.7 25.1#

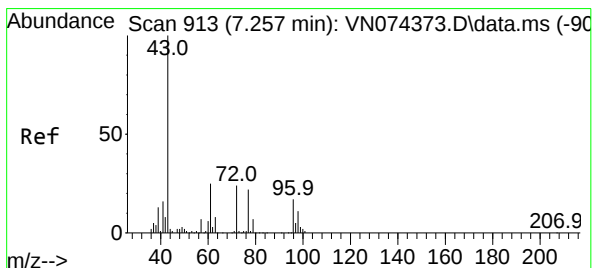
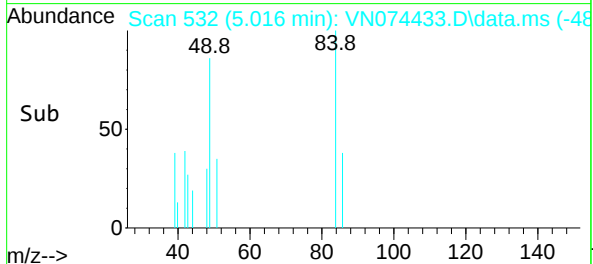
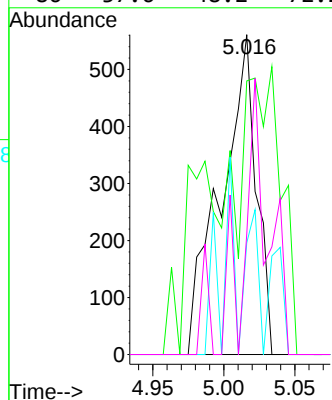
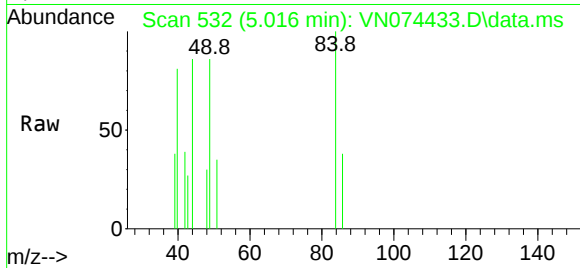




#20
Methylene Chloride
Concen: Below Cal
RT: 5.016 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN074433.D
Acq: 13 Sep 2022 15:13

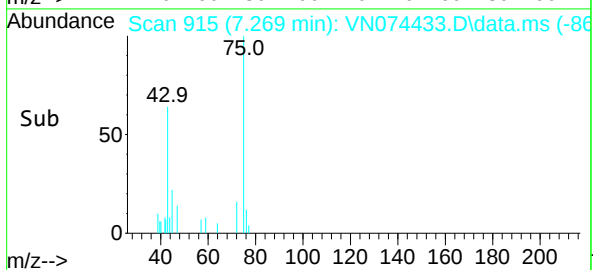
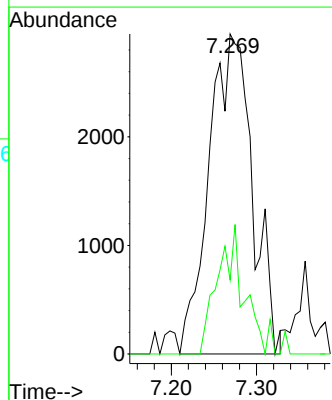
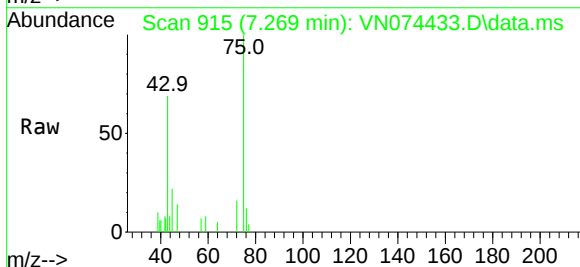
Instrument :
MSVOA_N
ClientSampleId :
CO-1

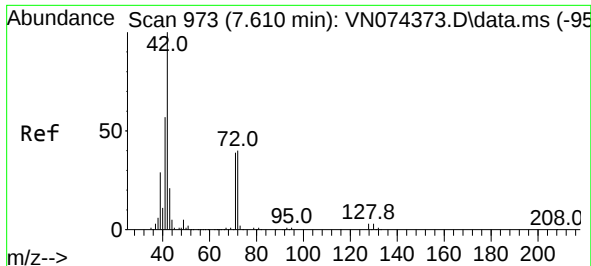
Tgt Ion: 84 Resp: 969
Ion Ratio Lower Upper
84 100
49 85.6 108.2 162.4#
51 34.9 34.3 51.5
86 37.6 48.2 72.2#



#25
2-Butanone
Concen: 3.437 ug/l
RT: 7.269 min Scan# 915
Delta R.T. 0.012 min
Lab File: VN074433.D
Acq: 13 Sep 2022 15:13

Tgt Ion: 43 Resp: 10434
Ion Ratio Lower Upper
43 100
72 23.1 18.9 28.3

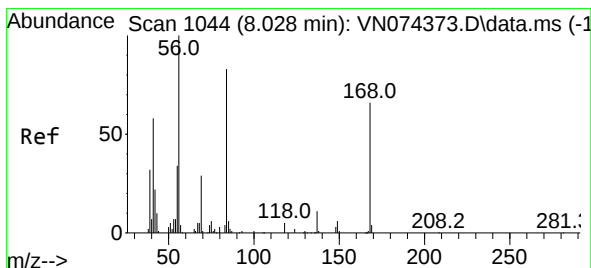
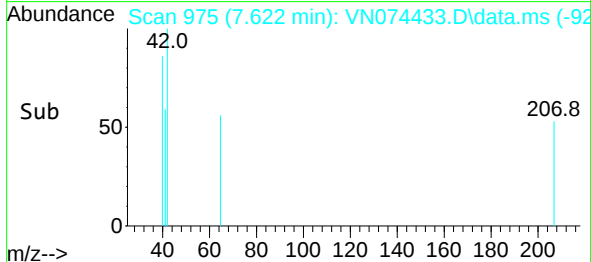
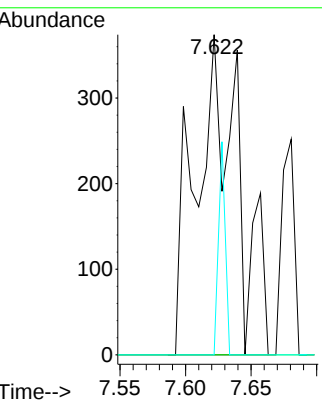
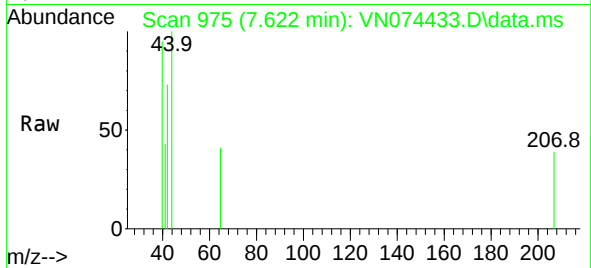




#29
Tetrahydrofuran
Concen: 0.421 ug/l
RT: 7.622 min Scan# 91
Delta R.T. 0.012 min
Lab File: VN074433.D
Acq: 13 Sep 2022 15:13

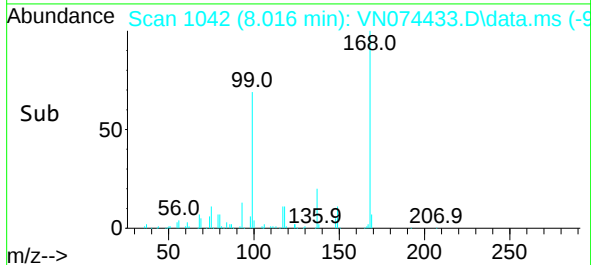
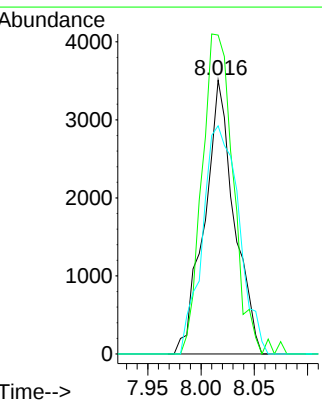
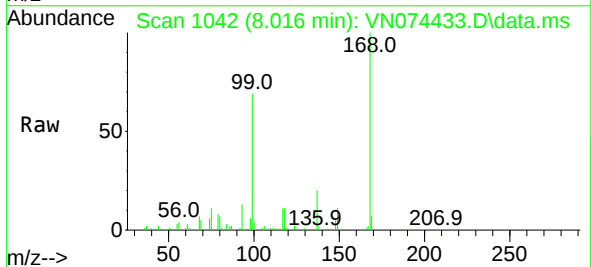
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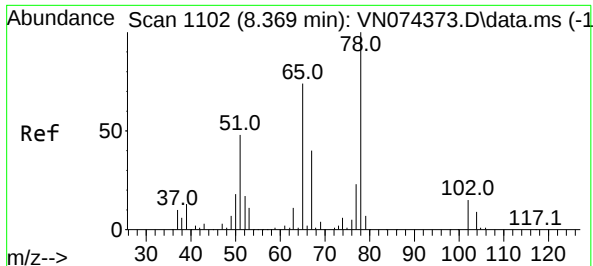
Tgt Ion: 42 Resp: 845
Ion Ratio Lower Upper
42 100
72 0.0 32.7 49.1#
71 10.4 31.0 46.6#



#31
Cyclohexane
Concen: 1.276 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.012 min
Lab File: VN074433.D
Acq: 13 Sep 2022 15:13

Tgt Ion: 56 Resp: 6797
Ion Ratio Lower Upper
56 100
69 116.5 23.0 34.4#
84 83.4 66.3 99.5





#33

1,2-Dichloroethane-d4

Concen: 49.238 ug/l

RT: 8.375 min Scan# 1102

Delta R.T. 0.006 min

Lab File: VN074433.D

Acq: 13 Sep 2022 15:13

Instrument :

MSVOA_N

ClientSampleId :

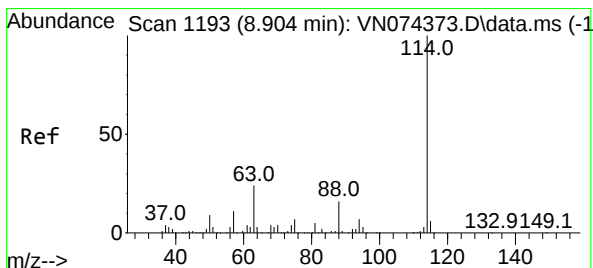
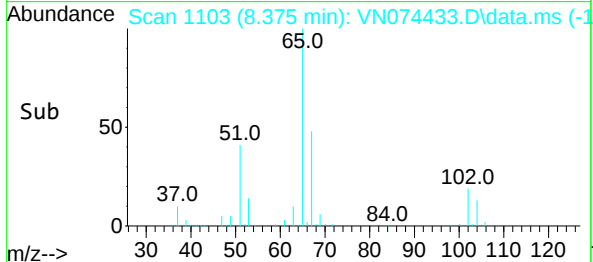
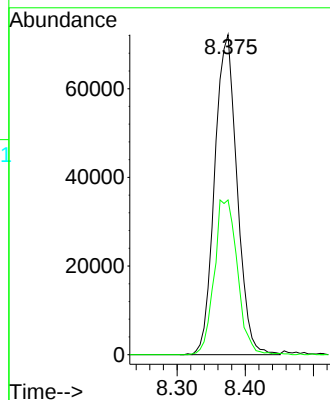
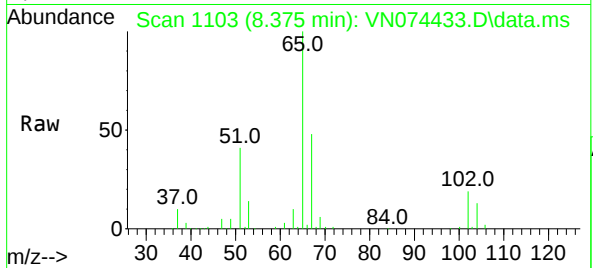
CO-1

Tgt Ion: 65 Resp: 164963

Ion Ratio Lower Upper

65 100

67 50.0 0.0 102.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.904 min Scan# 1193

Delta R.T. 0.000 min

Lab File: VN074433.D

Acq: 13 Sep 2022 15:13

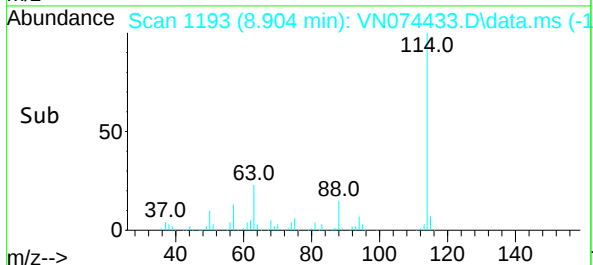
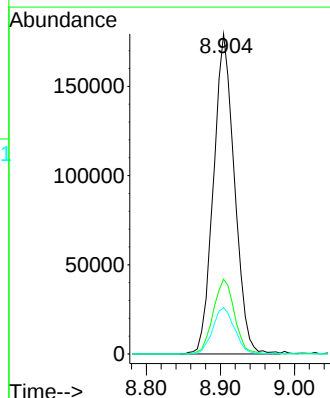
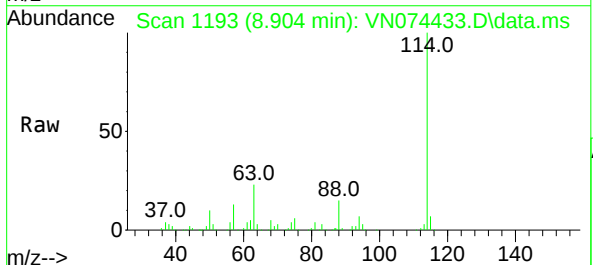
Tgt Ion: 114 Resp: 352773

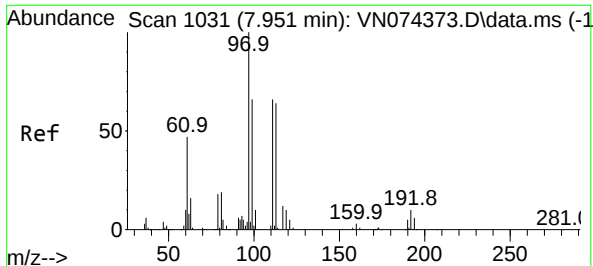
Ion Ratio Lower Upper

114 100

63 23.3 0.0 47.6

88 14.5 0.0 31.4





#35

Dibromofluoromethane

Concen: 54.729 ug/l

RT: 7.957 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN074433.D

Acq: 13 Sep 2022 15:13

Instrument :

MSVOA_N

ClientSampleId :

CO-1

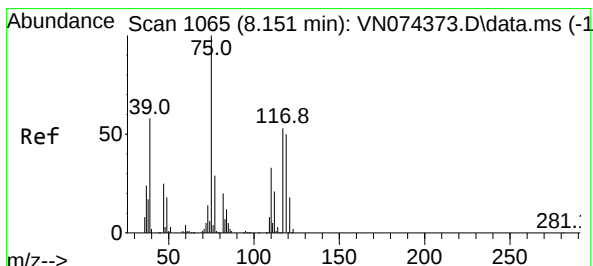
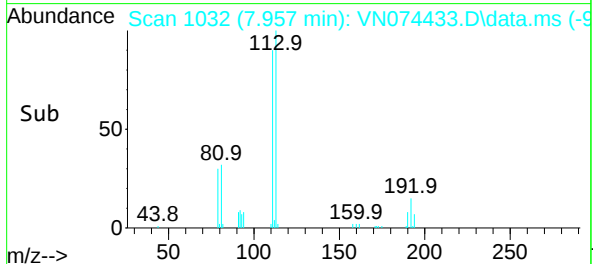
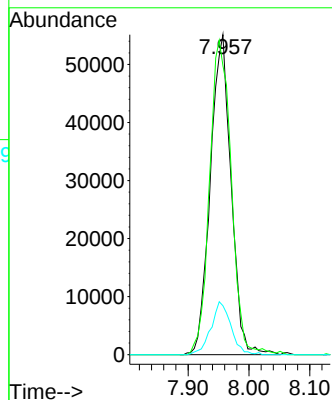
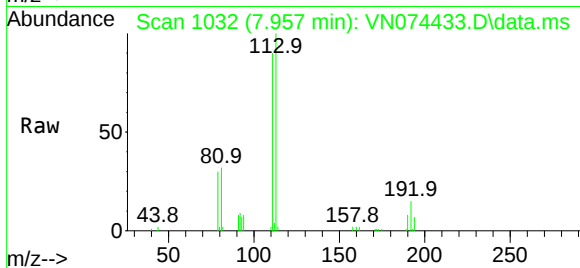
Tgt Ion:113 Resp: 130341

Ion Ratio Lower Upper

113 100

111 103.4 83.0 124.4

192 16.0 13.7 20.5



#36

1,1-Dichloropropene

Concen: 5.370 ug/l

RT: 8.016 min Scan# 1042

Delta R.T. -0.135 min

Lab File: VN074433.D

Acq: 13 Sep 2022 15:13

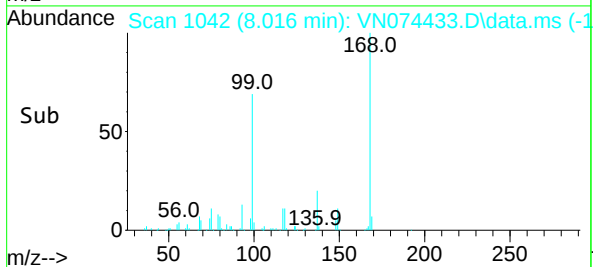
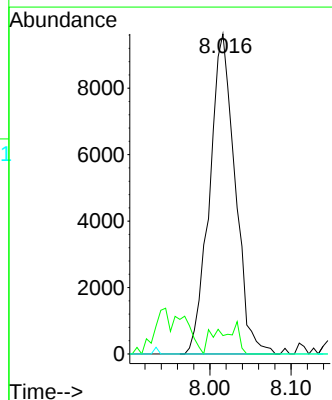
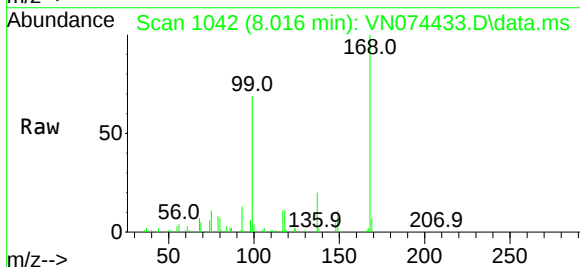
Tgt Ion: 75 Resp: 21070

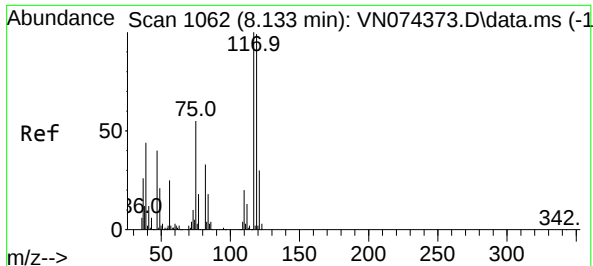
Ion Ratio Lower Upper

75 100

110 4.2 16.4 49.1#

77 0.0 25.4 38.2#

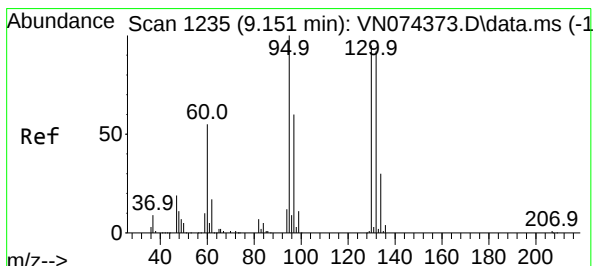
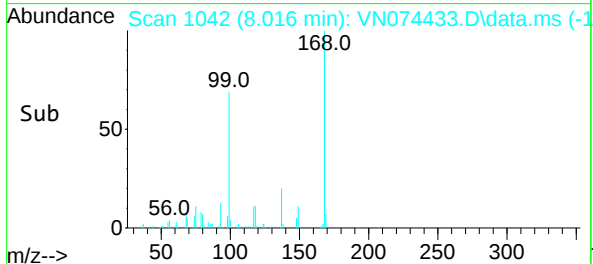
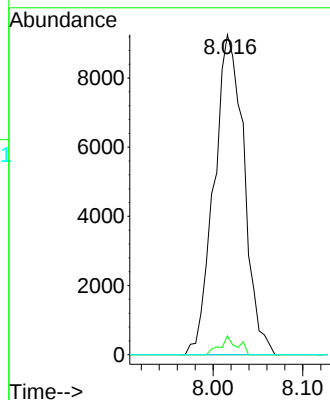
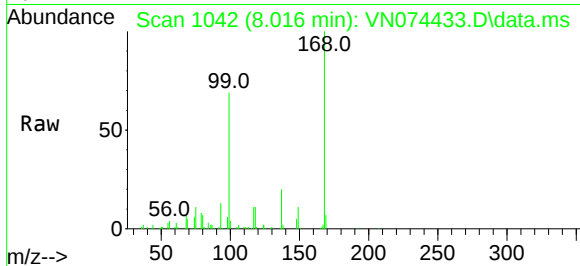




#38
Carbon Tetrachloride
Concen: 5.296 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.118 min
Lab File: VN074433.D
Acq: 13 Sep 2022 15:13

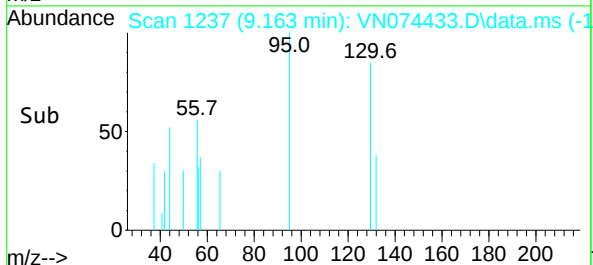
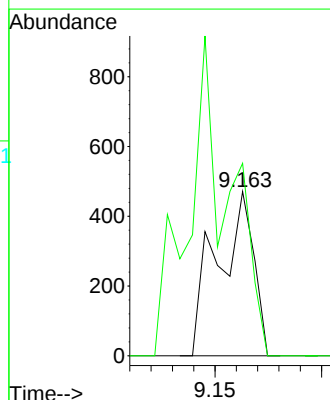
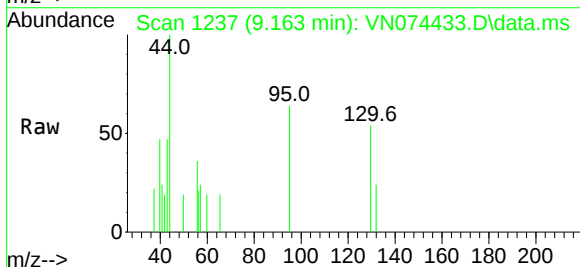
Instrument :
MSVOA_N
ClientSampleId :
CO-1

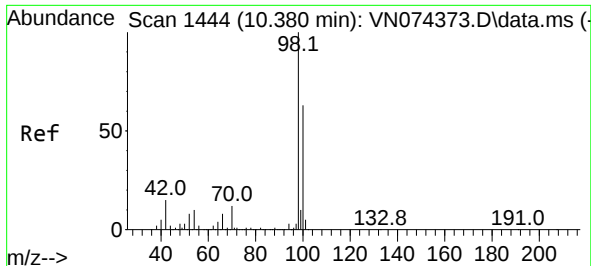
Tgt Ion:117 Resp: 21452
Ion Ratio Lower Upper
117 100
119 5.9 78.8 118.2#
121 0.0 24.1 36.1#



#44
Trichloroethene
Concen: 0.208 ug/l
RT: 9.163 min Scan# 1237
Delta R.T. 0.012 min
Lab File: VN074433.D
Acq: 13 Sep 2022 15:13

Tgt Ion:130 Resp: 559
Ion Ratio Lower Upper
130 100
95 117.2 0.0 210.0

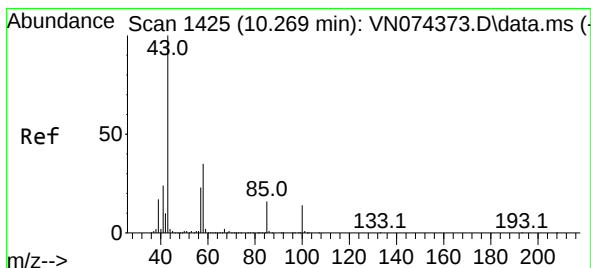
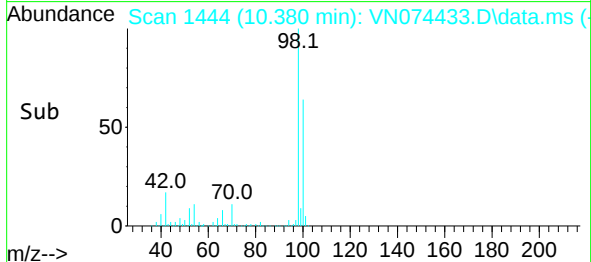
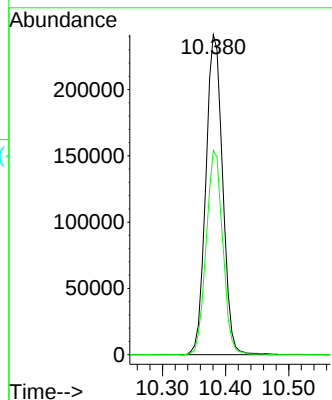
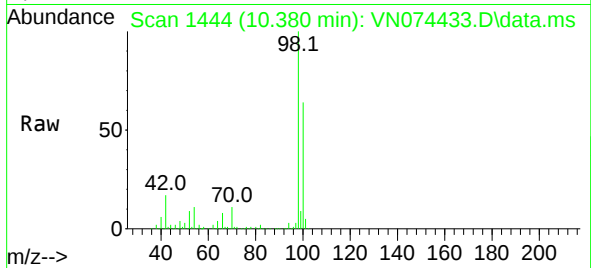




#50
Toluene-d8
Concen: 48.044 ug/l
RT: 10.380 min Scan# 1444
Delta R.T. 0.000 min
Lab File: VN074433.D
Acq: 13 Sep 2022 15:13

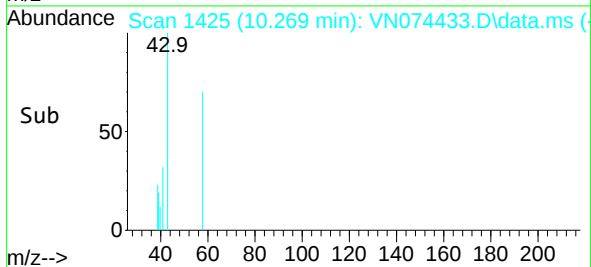
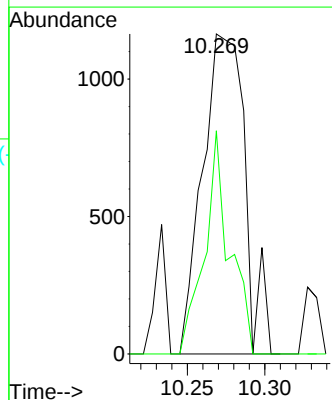
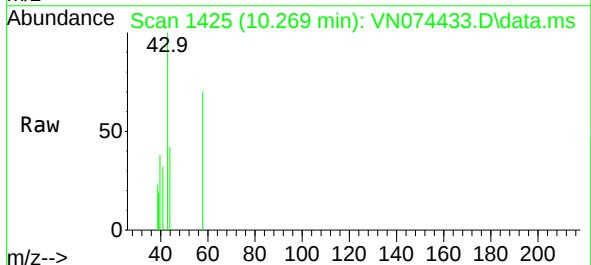
Instrument :
MSVOA_N
ClientSampleId :
CO-1

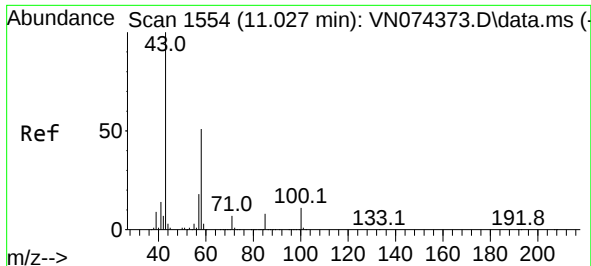
Tgt Ion: 98 Resp: 445829
Ion Ratio Lower Upper
98 100
100 62.9 50.6 76.0



#51
4-Methyl-2-Pentanone
Concen: 0.364 ug/l
RT: 10.269 min Scan# 1425
Delta R.T. 0.000 min
Lab File: VN074433.D
Acq: 13 Sep 2022 15:13

Tgt Ion: 43 Resp: 2217
Ion Ratio Lower Upper
43 100
58 41.0 29.0 43.6

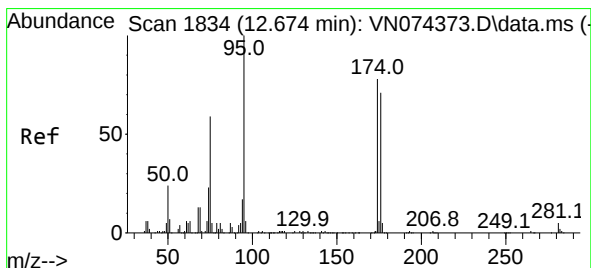
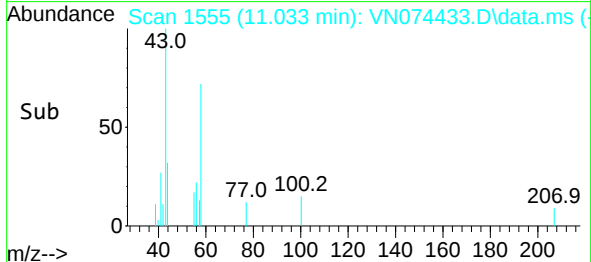
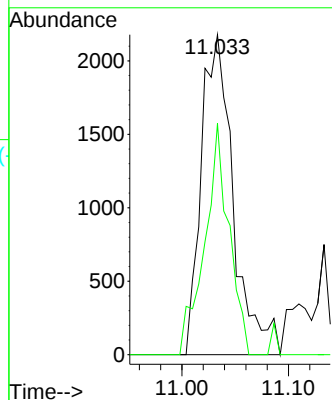
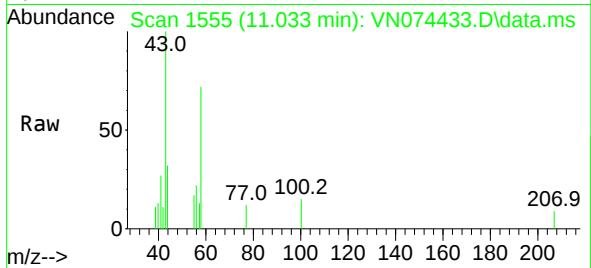




#59
2-Hexanone
Concen: 0.965 ug/l
RT: 11.033 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN074433.D
Acq: 13 Sep 2022 15:13

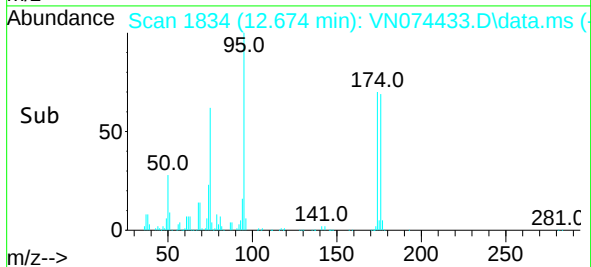
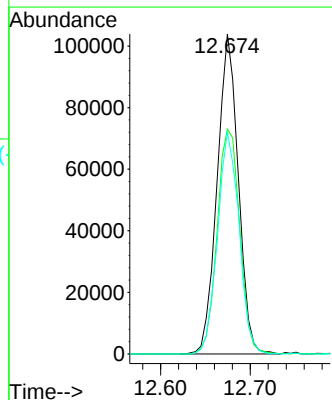
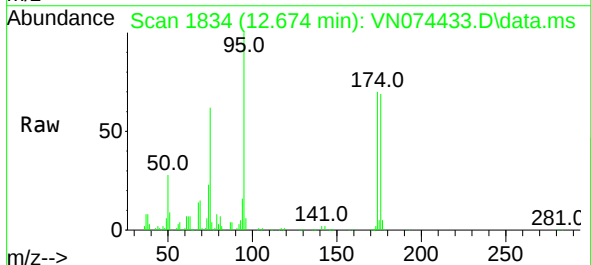
Instrument :
MSVOA_N
ClientSampleId :
CO-1

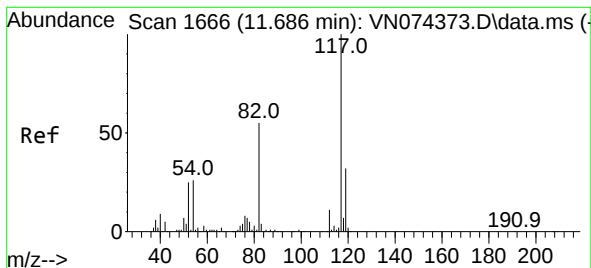
Tgt Ion: 43 Resp: 4534
Ion Ratio Lower Upper
43 100
58 55.0 25.8 77.3



#62
4-Bromofluorobenzene
Concen: 50.462 ug/l
RT: 12.674 min Scan# 1834
Delta R.T. 0.000 min
Lab File: VN074433.D
Acq: 13 Sep 2022 15:13

Tgt Ion: 95 Resp: 170014
Ion Ratio Lower Upper
95 100
174 75.0 0.0 150.6
176 70.7 0.0 143.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.686 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN074433.D

Acq: 13 Sep 2022 15:13

Instrument :

MSVOA_N

ClientSampleId :

CO-1

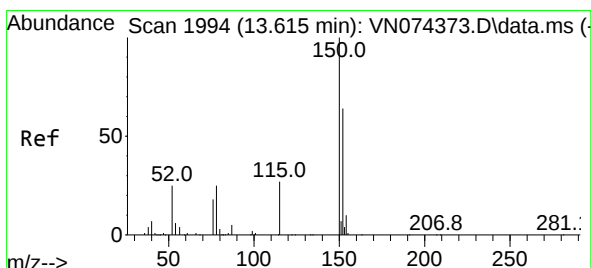
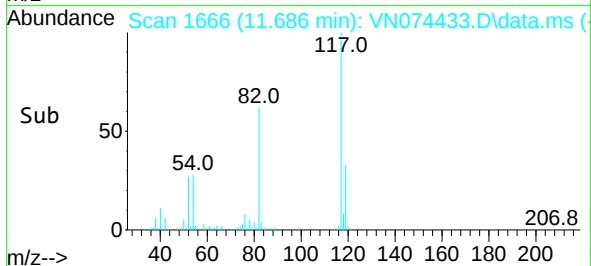
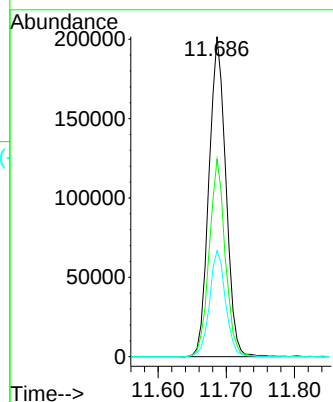
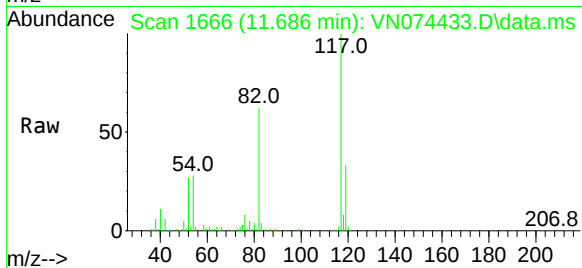
Tgt Ion:117 Resp: 347101

Ion Ratio Lower Upper

117 100

82 61.7 44.3 66.5

119 33.1 25.5 38.3



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.616 min Scan# 1994

Delta R.T. 0.001 min

Lab File: VN074433.D

Acq: 13 Sep 2022 15:13

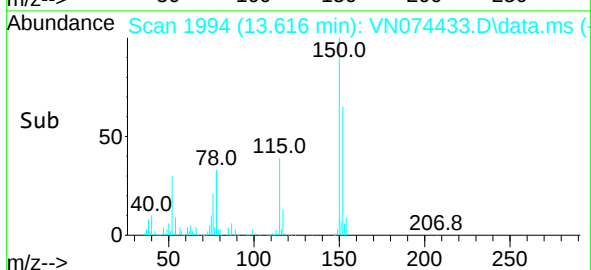
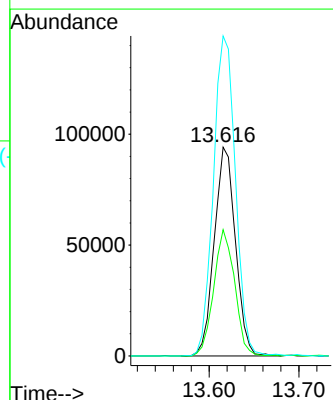
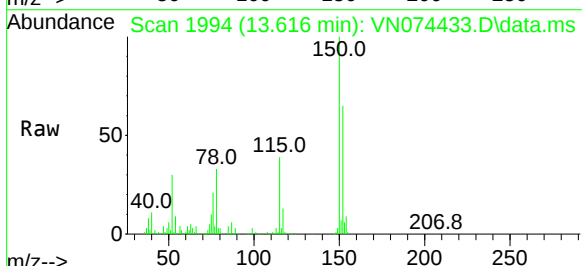
Tgt Ion:152 Resp: 154949

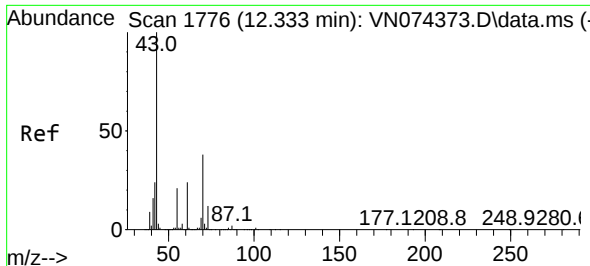
Ion Ratio Lower Upper

152 100

115 59.6 32.0 96.0

150 159.4 0.0 359.6

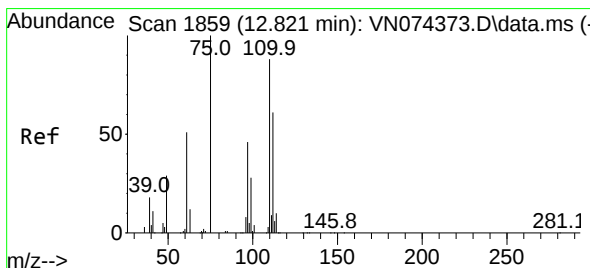
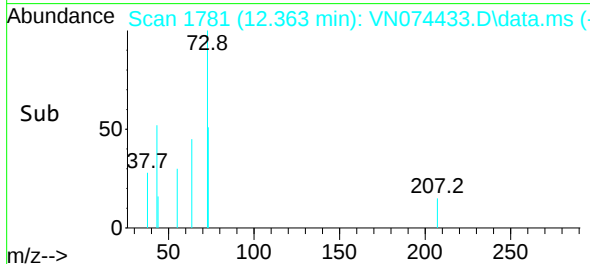
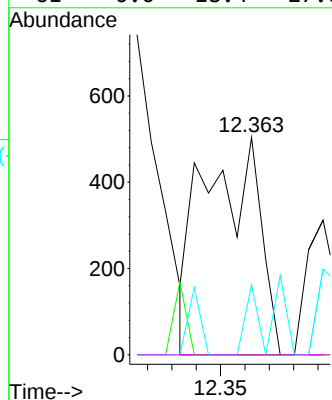
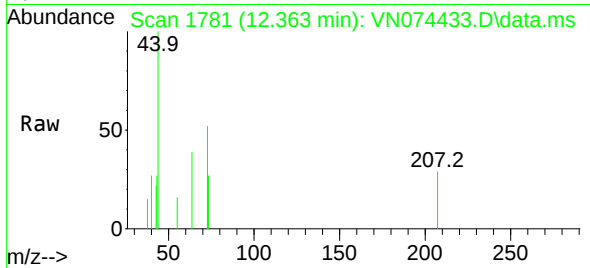




#74
N-amy1 acetate
Concen: Below Cal
RT: 12.363 min Scan# 11
Delta R.T. 0.030 min
Lab File: VN074433.D
Acq: 13 Sep 2022 15:13

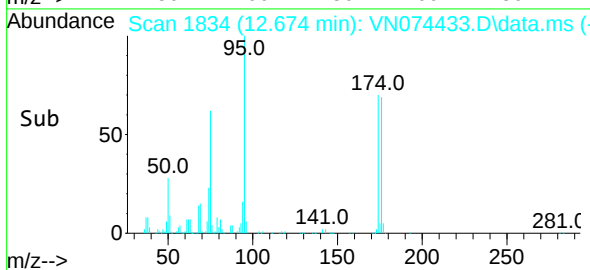
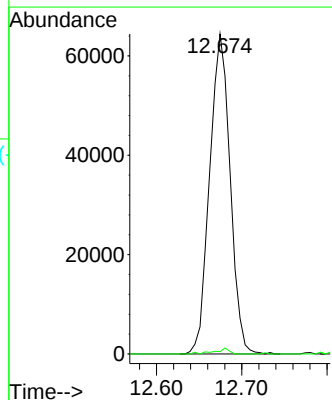
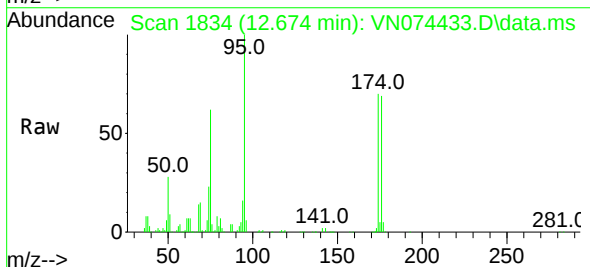
Instrument :
MSVOA_N
ClientSampleId :
CO-1

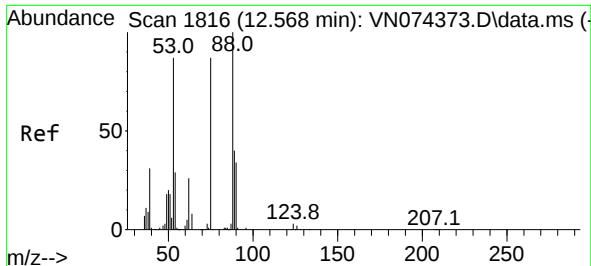
Tgt Ion: 43 Resp: 792
Ion Ratio Lower Upper
43 100
70 0.0 31.4 47.0#
55 7.2 17.0 25.6#
61 0.0 18.4 27.6#



#76
1,2,3-Trichloropropane
Concen: 26.593 ug/l
RT: 12.674 min Scan# 1834
Delta R.T. -0.147 min
Lab File: VN074433.D
Acq: 13 Sep 2022 15:13

Tgt Ion: 75 Resp: 107719
Ion Ratio Lower Upper
75 100
77 1.3 78.9 236.7#

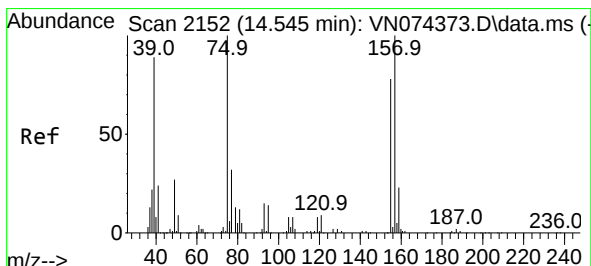
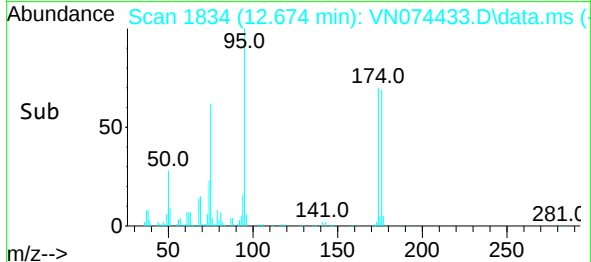
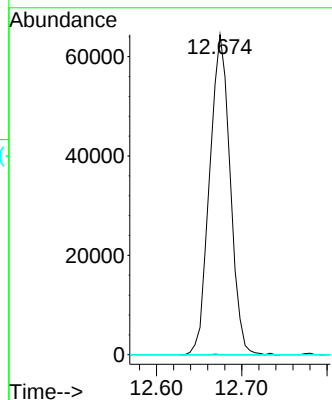
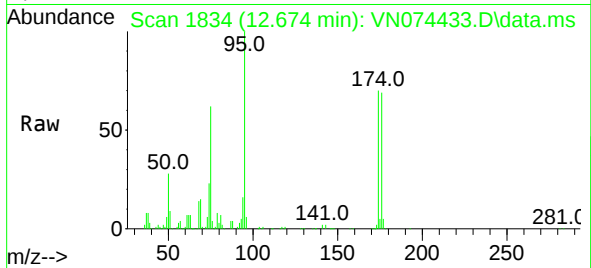




#81
trans-1,4-Dichloro-2-butene
Concen: 59.275 ug/l
RT: 12.674 min Scan# 11
Delta R.T. 0.106 min
Lab File: VN074433.D
Acq: 13 Sep 2022 15:13

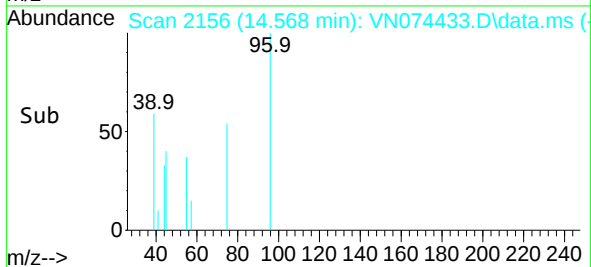
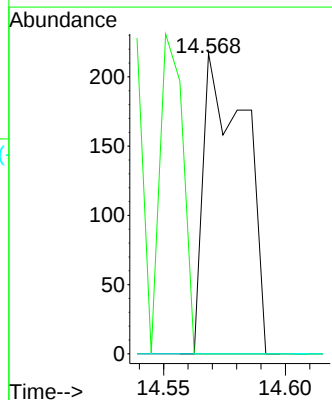
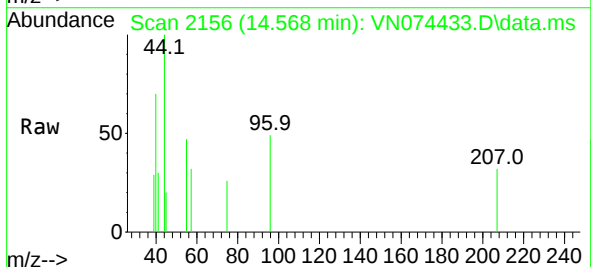
Instrument :
MSVOA_N
ClientSampleId :
CO-1

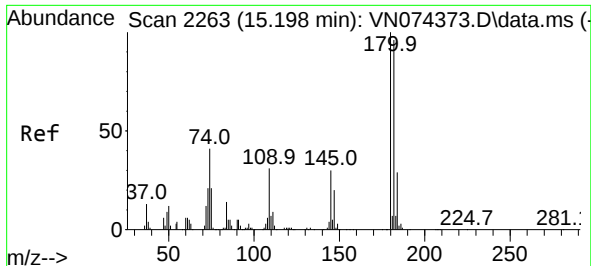
Tgt Ion: 75 Resp: 107719
Ion Ratio Lower Upper
75 100
53 0.1 82.2 123.2#
89 0.0 37.7 56.5#



#92
1,2-Dibromo-3-Chloropropane
Concen: Below Cal
RT: 14.568 min Scan# 2156
Delta R.T. 0.023 min
Lab File: VN074433.D
Acq: 13 Sep 2022 15:13

Tgt Ion: 75 Resp: 257
Ion Ratio Lower Upper
75 100
155 58.8 36.6 109.9
157 0.0 46.2 138.5#





#93

1,2,4-Trichlorobenzene

Concen: 0.321 ug/l

RT: 15.204 min Scan# 21

Delta R.T. 0.006 min

Lab File: VN074433.D

Acq: 13 Sep 2022 15:13

Instrument :

MSVOA_N

ClientSampleId :

CO-1

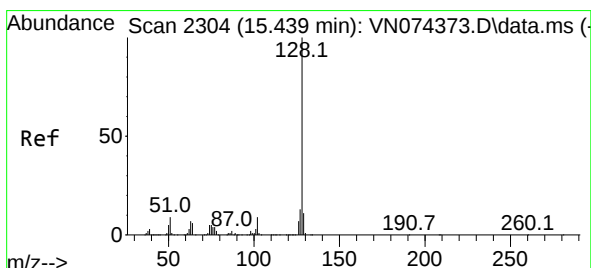
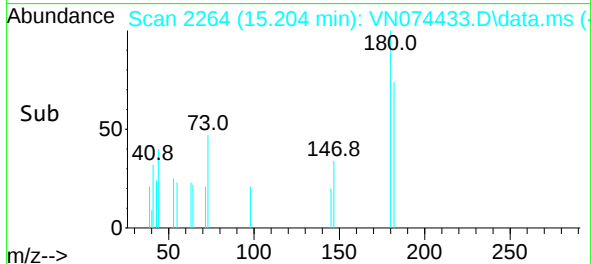
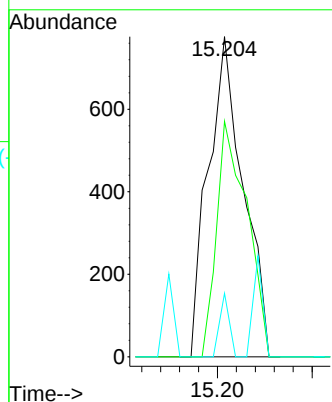
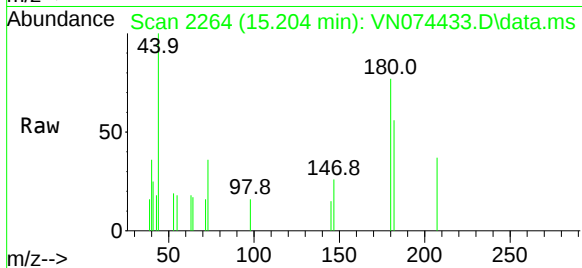
Tgt Ion:180 Resp: 993

Ion Ratio Lower Upper

180 100

182 64.0 47.4 142.2

145 5.4 16.1 48.2#



#95

Naphthalene

Concen: 0.456 ug/l

RT: 15.433 min Scan# 2303

Delta R.T. -0.006 min

Lab File: VN074433.D

Acq: 13 Sep 2022 15:13

Tgt Ion:128 Resp: 5521

Ion Ratio Lower Upper

128 100

127 6.1 10.6 16.0#

129 5.5 8.8 13.2#

