

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090922\
 Data File : VN074398.D
 Acq On : 10 Sep 2022 01:26
 Operator : JC\MD
 Sample : N4509-15
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 S1-SO_PW002-20220902

Quant Time: Sep 10 07:30:58 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)

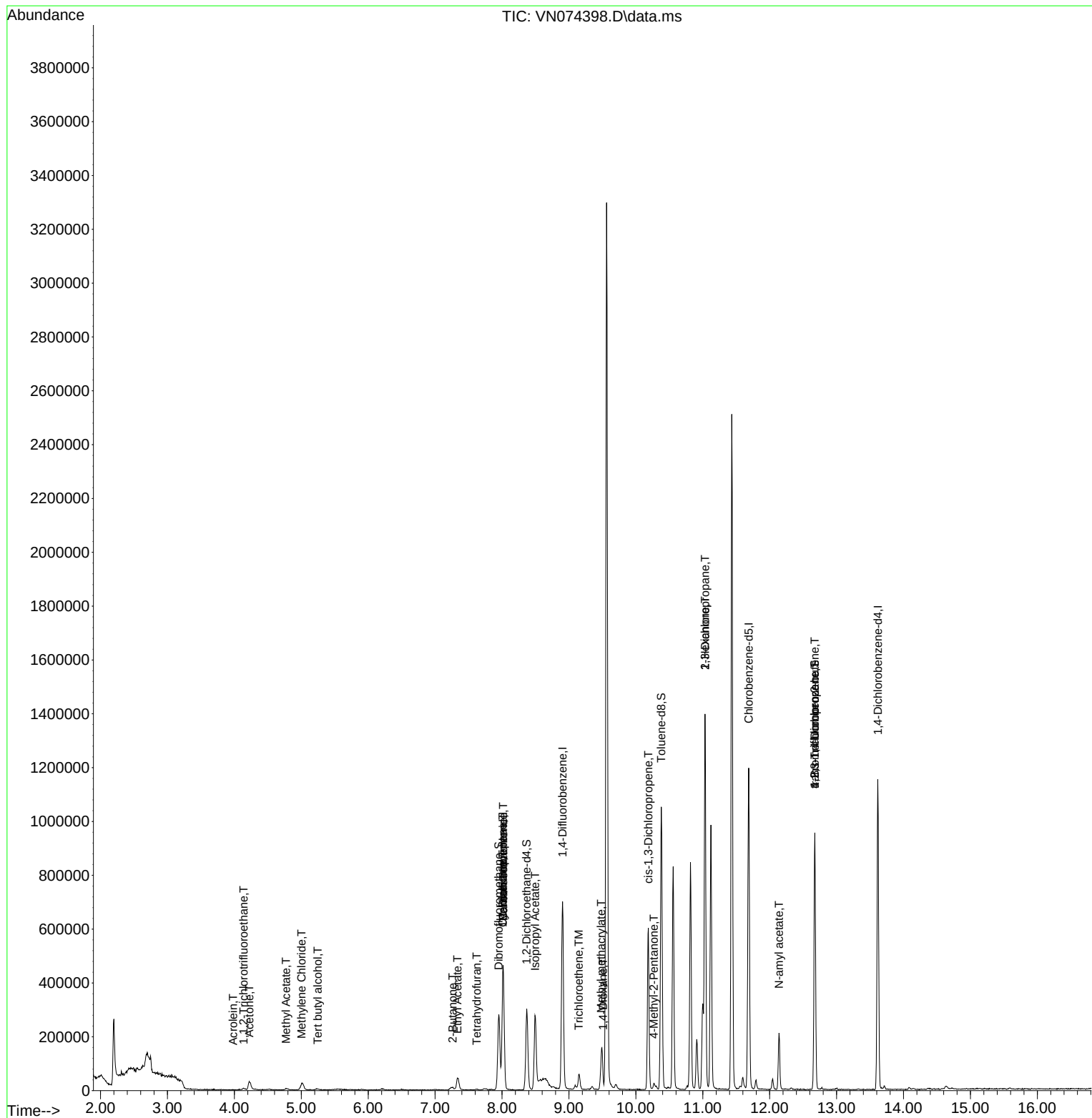
Internal Standards						
1) Pentafluorobenzene	8.016	168	317074	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.904	114	573624	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.686	117	612694	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.616	152	273703	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.369	65	232670	42.413	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	84.820%		
35) Dibromofluoromethane	7.951	113	188371	48.643	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	97.280%		
50) Toluene-d8	10.381	98	670502	44.436	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	88.880%		
62) 4-Bromofluorobenzene	12.675	95	282406	51.550	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	103.100%		
Target Compounds						Qvalue
3) Chloromethane	2.263	50	1560	Below Cal	#	45
6) Chloroethane	2.746	64	12577	Below Cal	#	49
9) 1,1,2-Trichlorotrifluo...	4.140	101	2188	0.539	ug/l #	77
11) Tert butyl alcohol	5.246	59	1053	0.734	ug/l #	91
13) Acrolein	3.981	56	204	0.214	ug/l #	77
16) Acetone	4.222	43	56663	19.132	ug/l	95
18) Methyl Acetate	4.769	43	10572	1.211	ug/l	100
20) Methylene Chloride	5.004	84	17981	2.715	ug/l	88
25) 2-Butanone	7.263	43	9779	1.967	ug/l #	85
28) Bromochloromethane	7.781	49	76	Below Cal	#	20
29) Tetrahydrofuran	7.622	42	1982	0.603	ug/l #	44
31) Cyclohexane	8.010	56	11164	1.280	ug/l #	42
36) 1,1-Dichloropropene	8.010	75	32882	5.154	ug/l #	50
37) Ethyl Acetate	7.334	43	77371	8.360	ug/l #	94
38) Carbon Tetrachloride	8.016	117	34754	5.277	ug/l #	15
43) Isopropyl Acetate	8.492	43	349151	23.069	ug/l #	89
44) Trichloroethene	9.145	130	17815	4.068	ug/l	85
48) Methyl methacrylate	9.481	41	11365	1.704	ug/l #	10
49) 1,4-Dioxane	9.510	88	151	1.074	ug/l #	25
51) 4-Methyl-2-Pentanone	10.269	43	15490	1.565	ug/l	100
54) cis-1,3-Dichloropropene	10.186	75	97088	11.666	ug/l #	66
57) 1,3-Dichloropropane	11.033	76	12303	1.414	ug/l #	43
59) 2-Hexanone	11.033	43	200033	26.189	ug/l #	53
74) N-amyl acetate	12.139	43	69146	3.792	ug/l #	54
76) 1,2,3-Trichloropropane	12.675	75	174295	24.360	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.675	75	174295	54.297	ug/l #	9
92) 1,2-Dibromo-3-Chloropr...	14.510	75	76	Below Cal	#	8

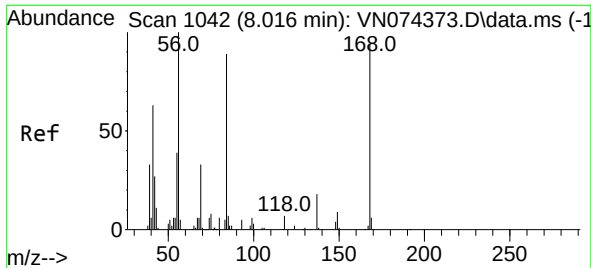
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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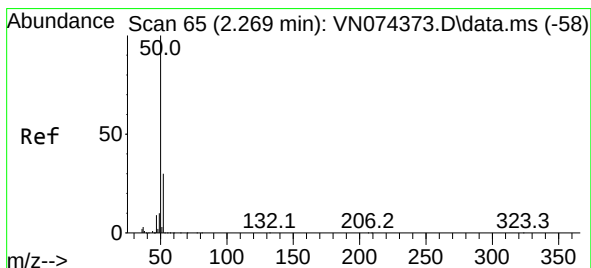
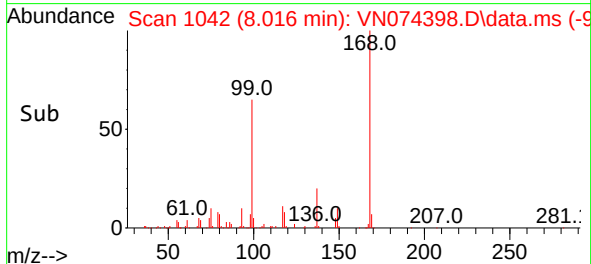
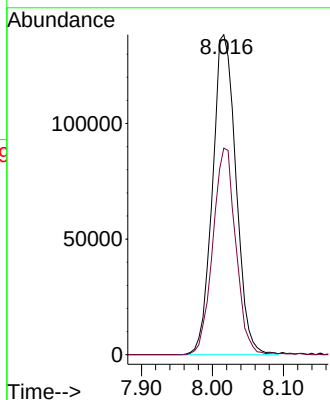
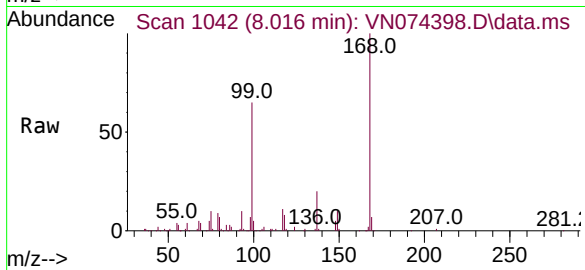




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. 0.000 min
Lab File: VN074398.D
Acq: 10 Sep 2022 01:26

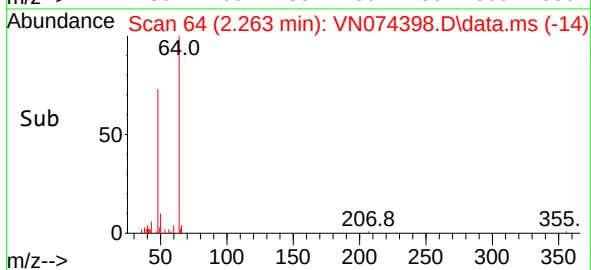
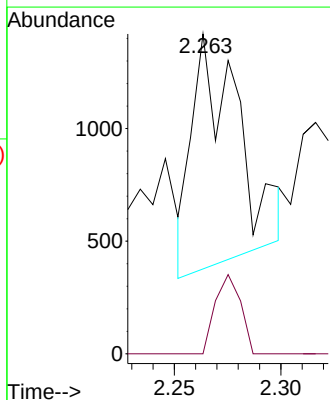
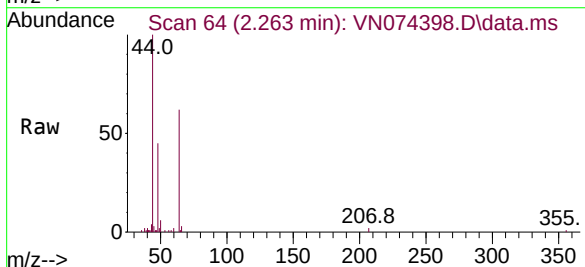
Instrument :
MSVOA_N
ClientSampleId :
S1-SO_PW002-20220902

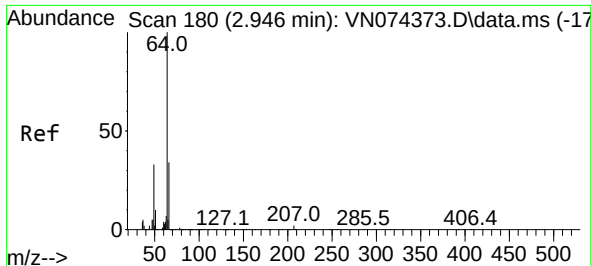
Tgt Ion:168 Resp: 317074
Ion Ratio Lower Upper
168 100
99 64.6 52.8 79.2



#3
Chloromethane
Concen: Below Cal
RT: 2.263 min Scan# 64
Delta R.T. -0.006 min
Lab File: VN074398.D
Acq: 10 Sep 2022 01:26

Tgt Ion: 50 Resp: 1560
Ion Ratio Lower Upper
50 100
52 0.0 24.1 36.1#

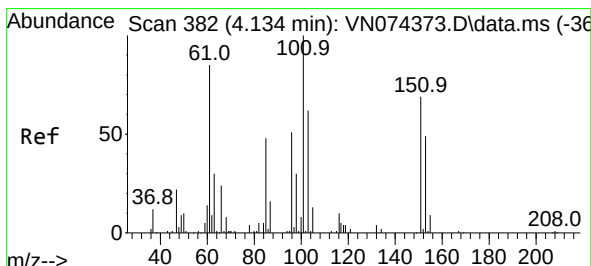
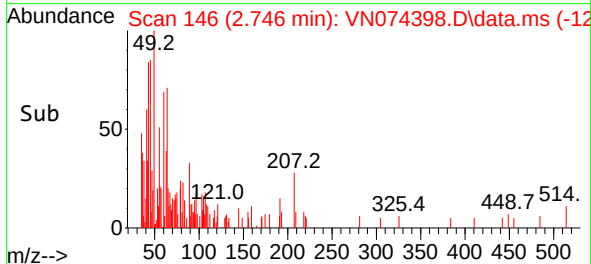
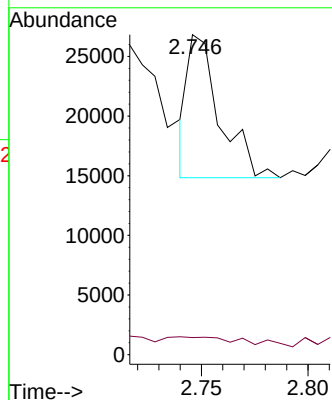
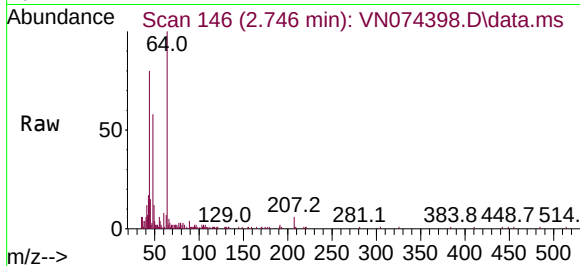




#6
Chloroethane
Concen: Below Cal
RT: 2.746 min Scan# 14
Delta R.T. -0.200 min
Lab File: VN074398.D
Acq: 10 Sep 2022 01:26

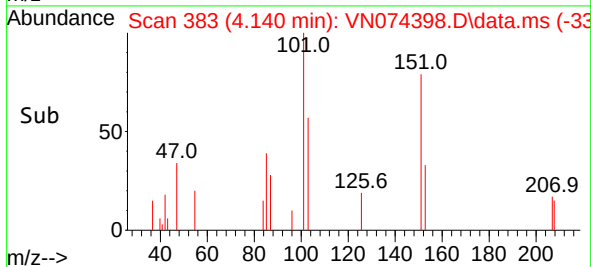
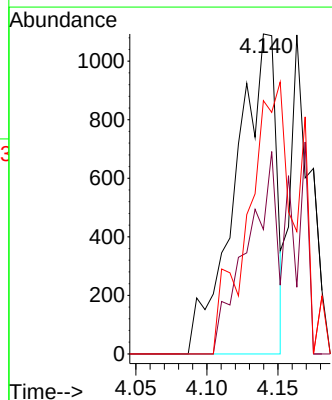
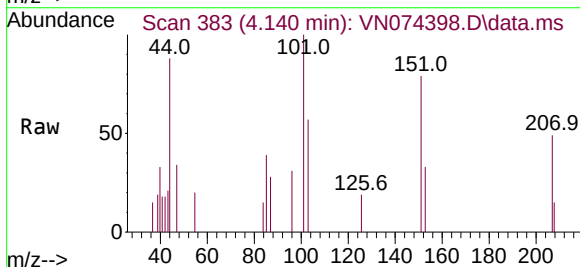
Instrument :
MSVOA_N
ClientSampleId :
S1-SO_PW002-20220902

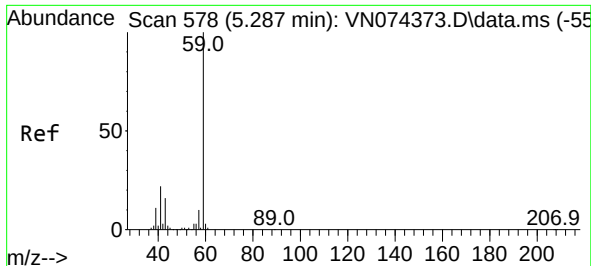
Tgt Ion: 64 Resp: 12577
Ion Ratio Lower Upper
64 100
66 4.0 26.5 39.7#



#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.539 ug/l
RT: 4.140 min Scan# 383
Delta R.T. 0.006 min
Lab File: VN074398.D
Acq: 10 Sep 2022 01:26

Tgt Ion:101 Resp: 2188
Ion Ratio Lower Upper
101 100
85 46.2 39.5 59.3
151 101.9 57.8 86.6#





#11

Tert butyl alcohol

Concen: 0.734 ug/l

RT: 5.246 min Scan# 51

Delta R.T. -0.041 min

Lab File: VN074398.D

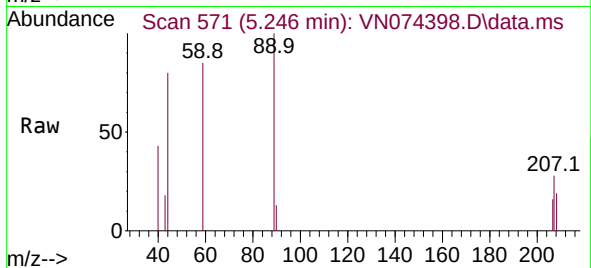
Acq: 10 Sep 2022 01:26

Instrument :

MSVOA_N

ClientSampleId :

S1-SO_PW002-20220902

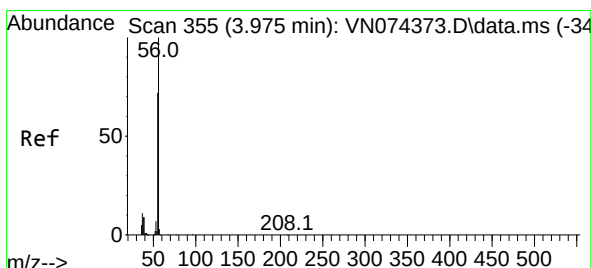
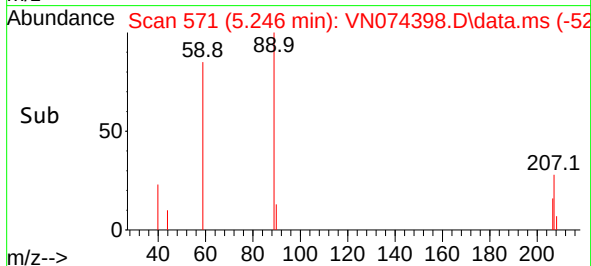
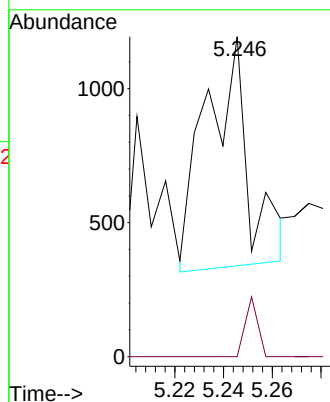


Tgt Ion: 59 Resp: 1053

Ion Ratio Lower Upper

59 100

57 7.5 8.8 13.2#



#13

Acrolein

Concen: 0.214 ug/l

RT: 3.981 min Scan# 356

Delta R.T. 0.006 min

Lab File: VN074398.D

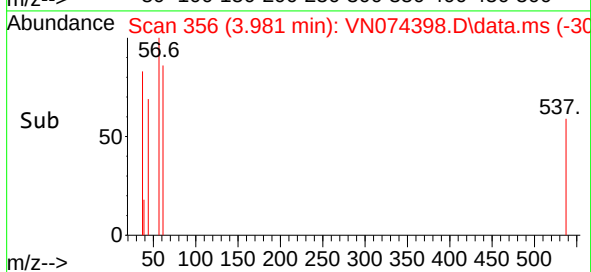
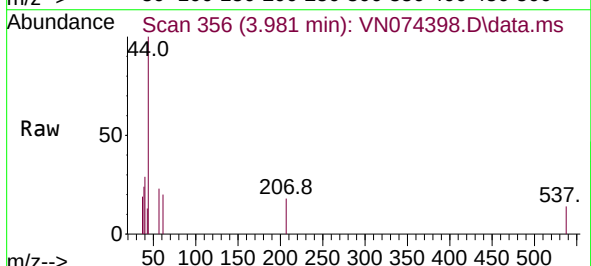
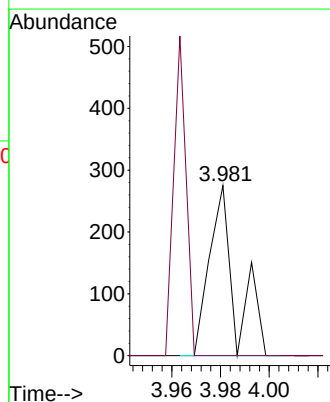
Acq: 10 Sep 2022 01:26

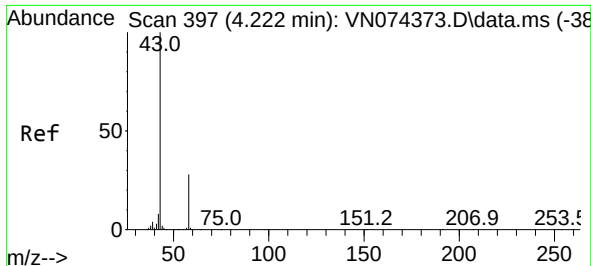
Tgt Ion: 56 Resp: 204

Ion Ratio Lower Upper

56 100

55 89.2 56.2 84.4#

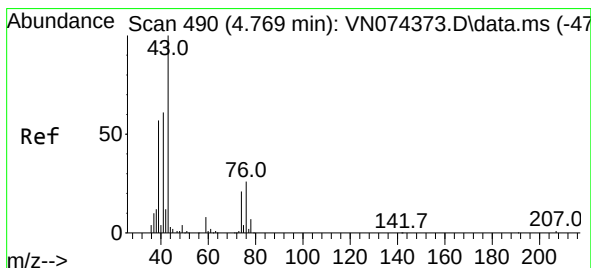
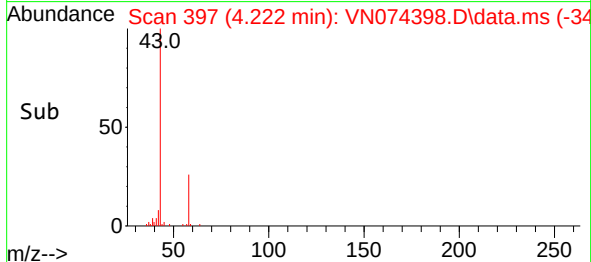
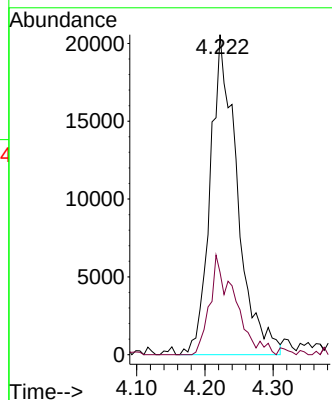
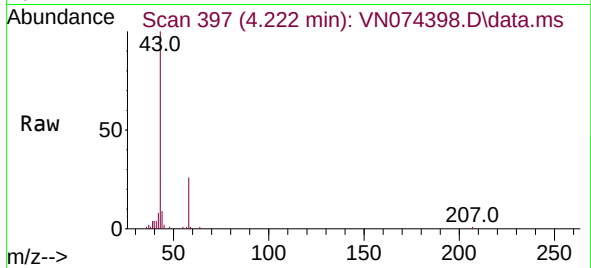




#16
Acetone
Concen: 19.132 ug/l
RT: 4.222 min Scan# 397
Delta R.T. 0.000 min
Lab File: VN074398.D
Acq: 10 Sep 2022 01:26

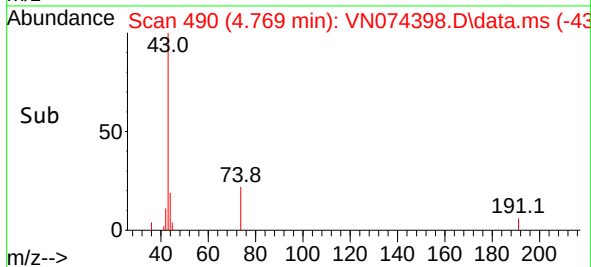
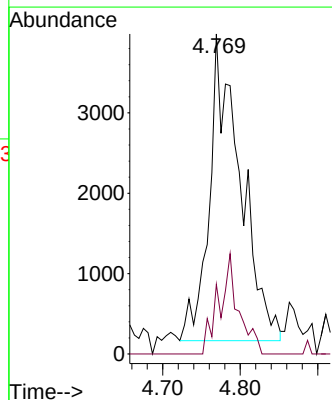
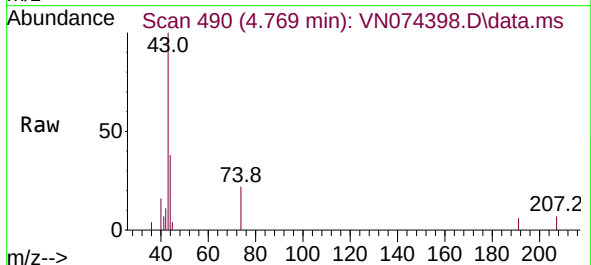
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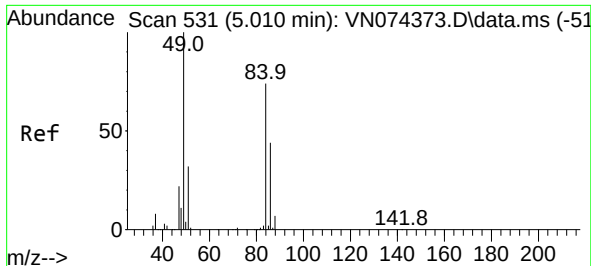
Tgt Ion: 43 Resp: 56663
Ion Ratio Lower Upper
43 100
58 25.7 22.7 34.1



#18
Methyl Acetate
Concen: 1.211 ug/l
RT: 4.769 min Scan# 490
Delta R.T. 0.000 min
Lab File: VN074398.D
Acq: 10 Sep 2022 01:26

Tgt Ion: 43 Resp: 10572
Ion Ratio Lower Upper
43 100
74 20.8 16.7 25.1

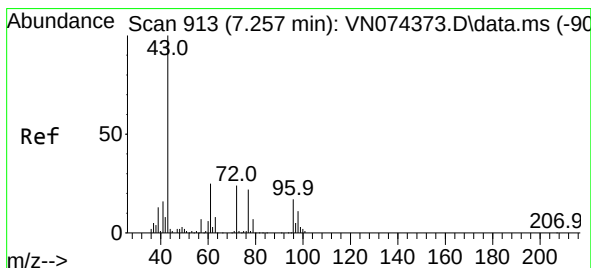
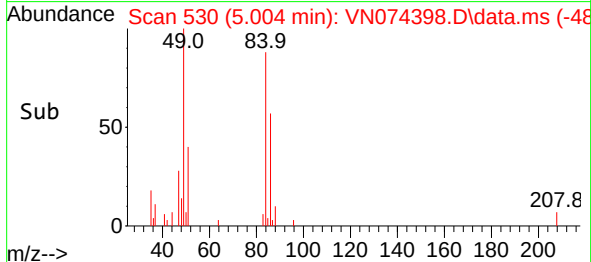
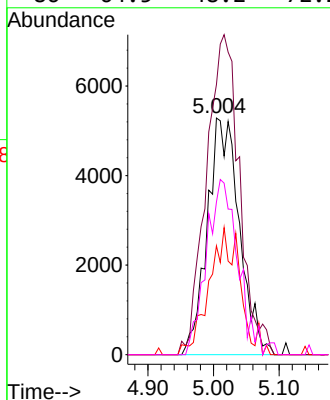
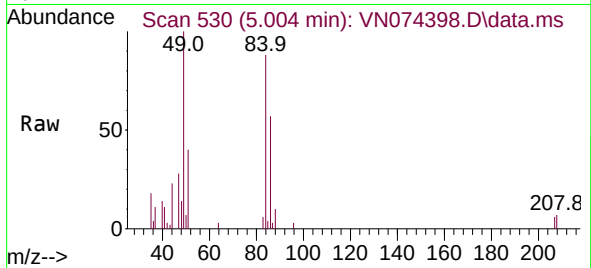




#20
Methylene Chloride
Concen: 2.715 ug/l
RT: 5.004 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN074398.D
Acq: 10 Sep 2022 01:26

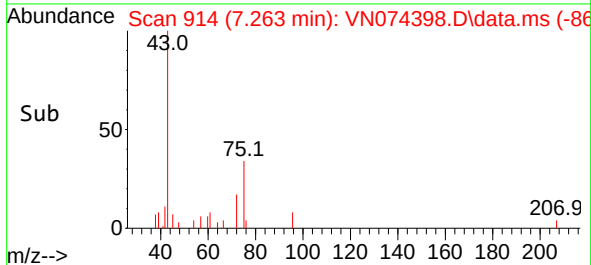
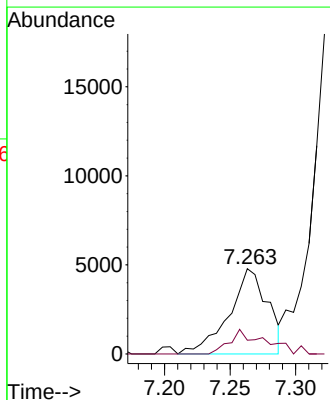
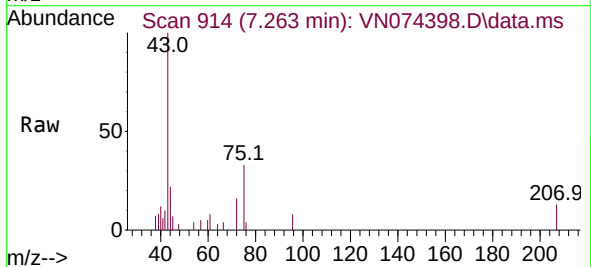
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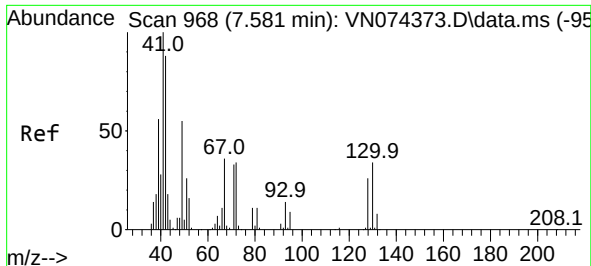
Tgt Ion:	84	Resp:	17981
Ion	Ratio	Lower	Upper
84	100		
49	114.1	108.2	162.4
51	46.0	34.3	51.5
86	64.5	48.2	72.2



#25
2-Butanone
Concen: 1.967 ug/l
RT: 7.263 min Scan# 914
Delta R.T. 0.006 min
Lab File: VN074398.D
Acq: 10 Sep 2022 01:26

Tgt Ion:	43	Resp:	9779
Ion	Ratio	Lower	Upper
43	100		
72	16.1	18.9	28.3#

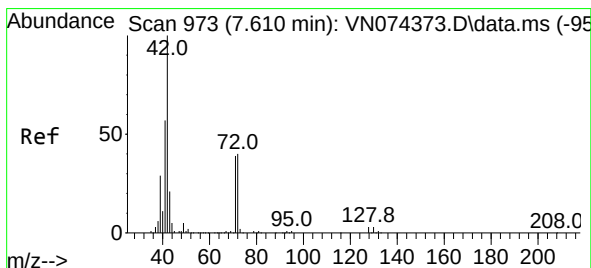
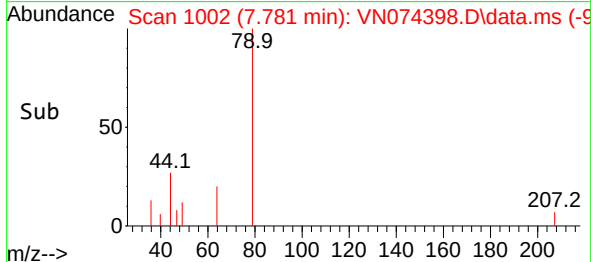
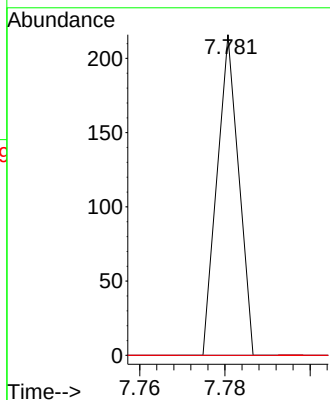
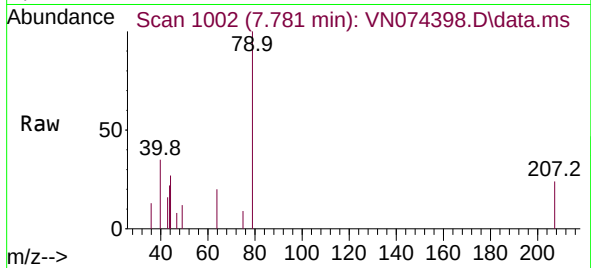




#28
Bromochloromethane
Concen: Below Cal
RT: 7.781 min Scan# 1002
Delta R.T. 0.200 min
Lab File: VN074398.D
Acq: 10 Sep 2022 01:26

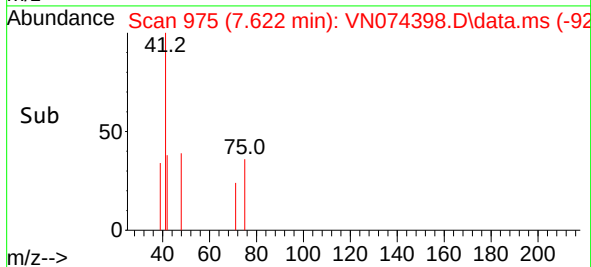
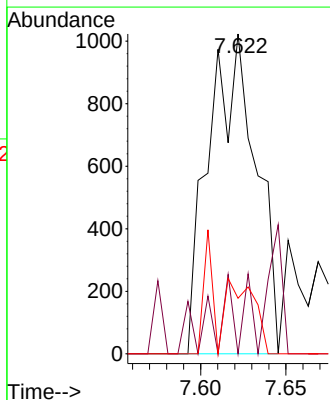
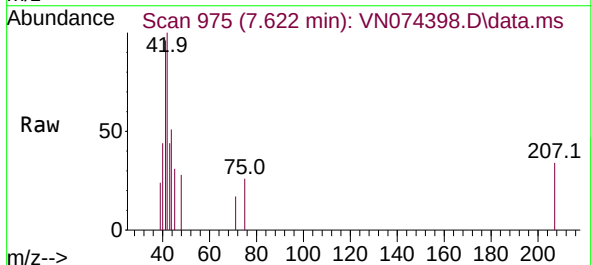
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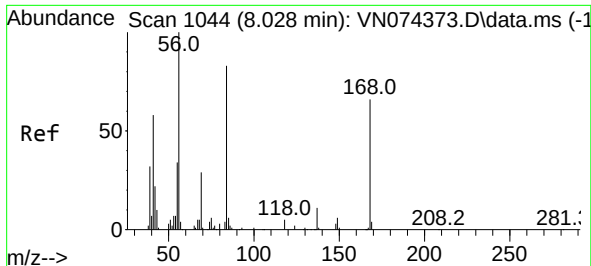
Tgt Ion: 49 Resp: 76
Ion Ratio Lower Upper
49 100
129 0.0 0.0 2.2
130 0.0 50.0 75.0#



#29
Tetrahydrofuran
Concen: 0.603 ug/l
RT: 7.622 min Scan# 975
Delta R.T. 0.012 min
Lab File: VN074398.D
Acq: 10 Sep 2022 01:26

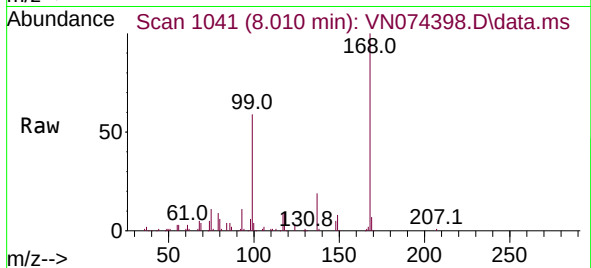
Tgt Ion: 42 Resp: 1982
Ion Ratio Lower Upper
42 100
72 4.5 32.7 49.1#
71 6.6 31.0 46.6#



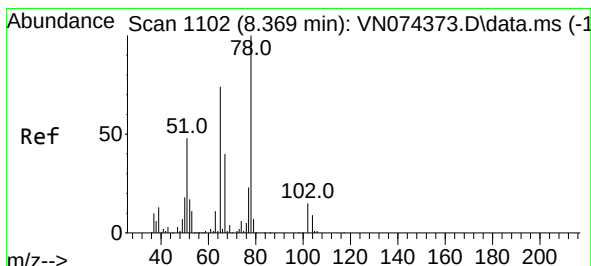
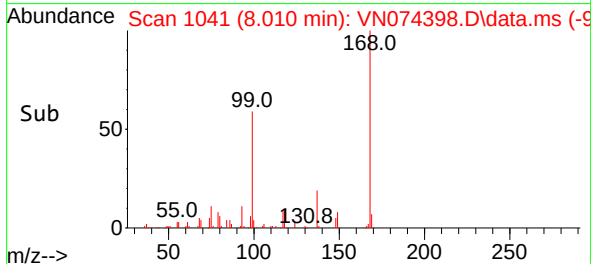
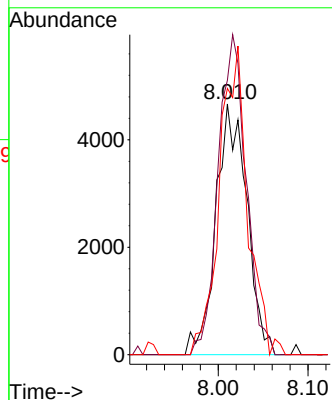


#31
Cyclohexane
Concen: 1.280 ug/l
RT: 8.010 min Scan# 1044
Delta R.T. -0.017 min
Lab File: VN074398.D
Acq: 10 Sep 2022 01:26

Instrument :
MSVOA_N
ClientSampleId :
S1-SO_PW002-20220902

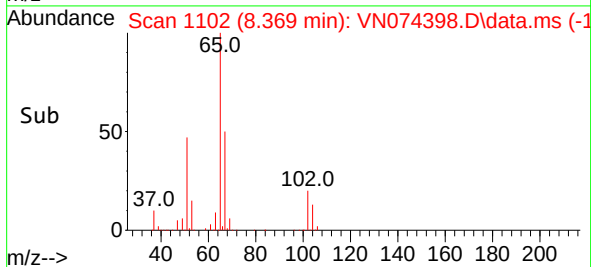
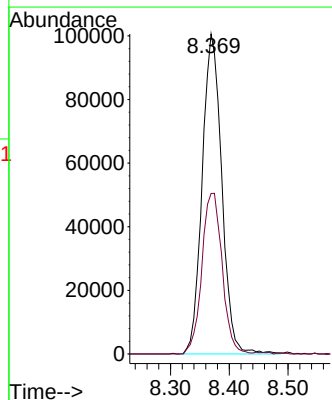
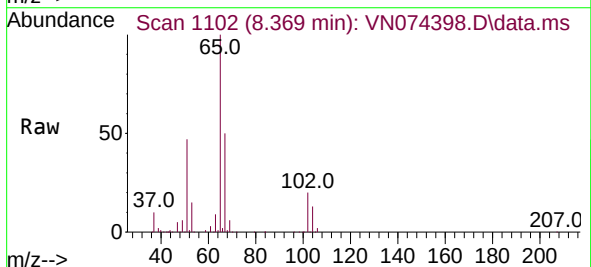


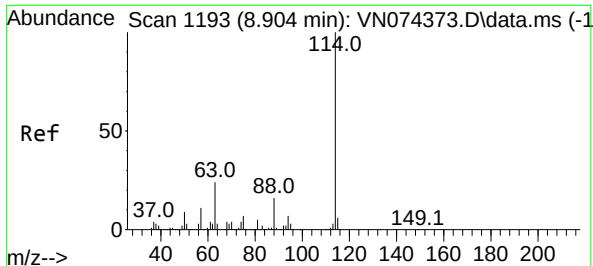
Tgt Ion: 56 Resp: 11164
Ion Ratio Lower Upper
56 100
69 109.4 23.0 34.4#
84 106.2 66.3 99.5#



#33
1,2-Dichloroethane-d4
Concen: 42.413 ug/l
RT: 8.369 min Scan# 1102
Delta R.T. 0.000 min
Lab File: VN074398.D
Acq: 10 Sep 2022 01:26

Tgt Ion: 65 Resp: 232670
Ion Ratio Lower Upper
65 100
67 51.9 0.0 102.4

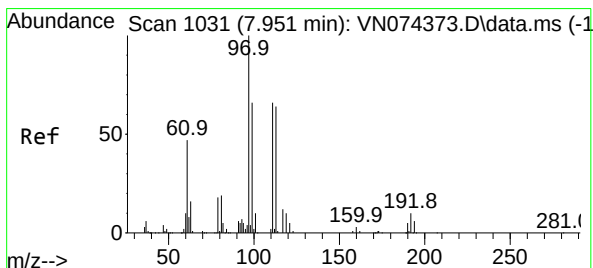
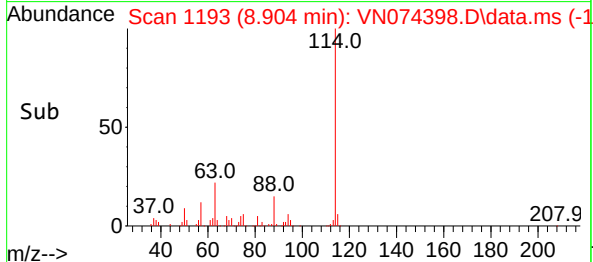
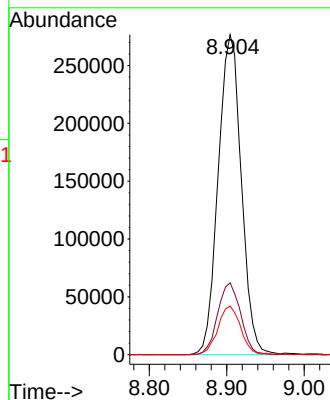
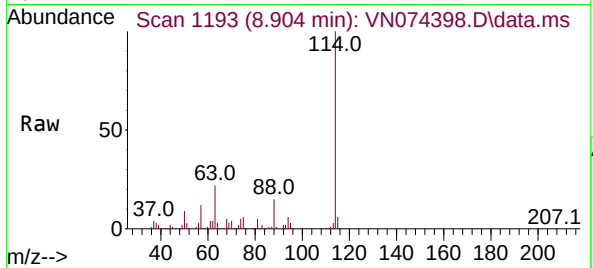




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.904 min Scan# 1193
Delta R.T. 0.000 min
Lab File: VN074398.D
Acq: 10 Sep 2022 01:26

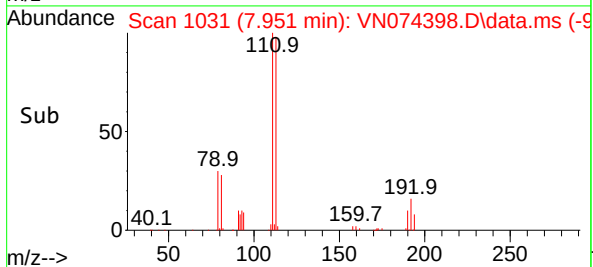
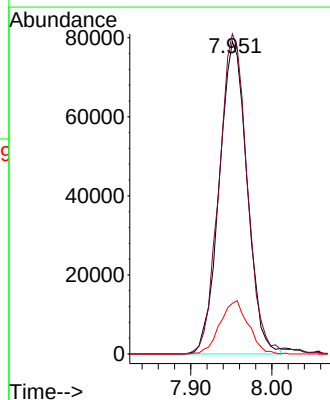
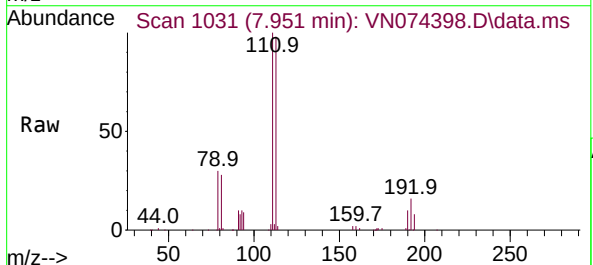
Instrument :
MSVOA_N
ClientSampleId :
S1-SO_PW002-20220902

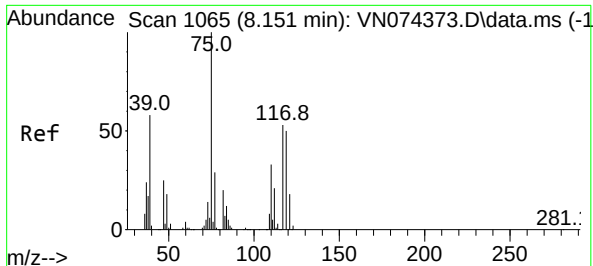
Tgt Ion:114 Resp: 573624
Ion Ratio Lower Upper
114 100
63 22.5 0.0 47.6
88 15.2 0.0 31.4



#35
Dibromofluoromethane
Concen: 48.643 ug/l
RT: 7.951 min Scan# 1031
Delta R.T. 0.000 min
Lab File: VN074398.D
Acq: 10 Sep 2022 01:26

Tgt Ion:113 Resp: 188371
Ion Ratio Lower Upper
113 100
111 104.4 83.0 124.4
192 17.3 13.7 20.5





#36

1,1-Dichloropropene

Concen: 5.154 ug/l

RT: 8.010 min Scan# 1065

Delta R.T. -0.141 min

Lab File: VN074398.D

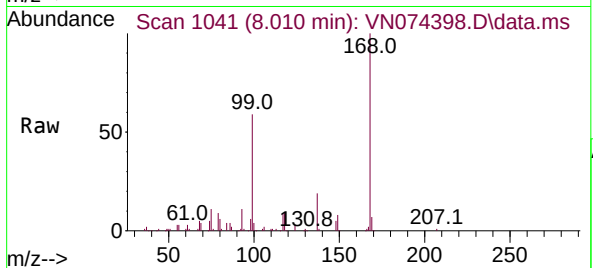
Acq: 10 Sep 2022 01:26

Instrument :

MSVOA_N

ClientSampleId :

S1-SO_PW002-20220902



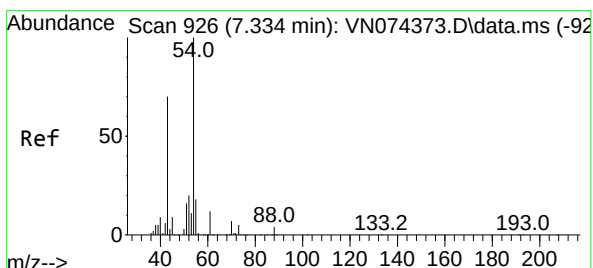
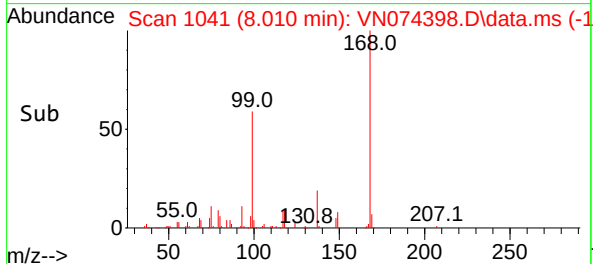
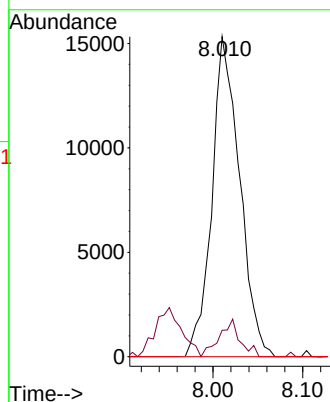
Tgt Ion: 75 Resp: 32882

Ion Ratio Lower Upper

75 100

110 8.7 16.4 49.1#

77 0.0 25.4 38.2#



#37

Ethyl Acetate

Concen: 8.360 ug/l

RT: 7.334 min Scan# 926

Delta R.T. 0.000 min

Lab File: VN074398.D

Acq: 10 Sep 2022 01:26

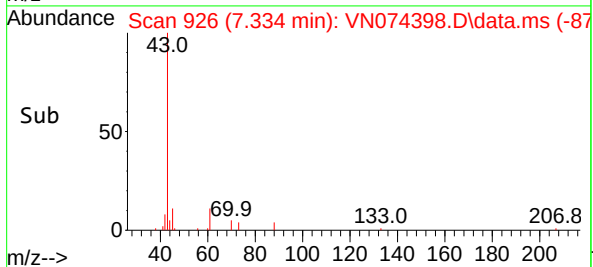
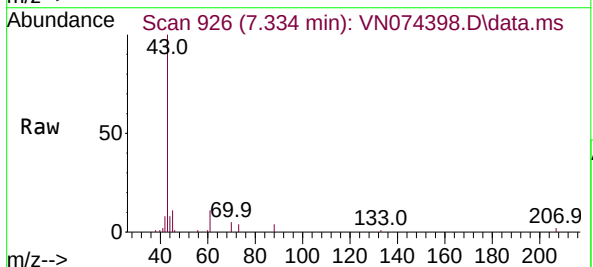
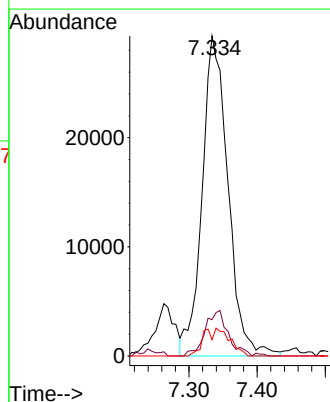
Tgt Ion: 43 Resp: 77371

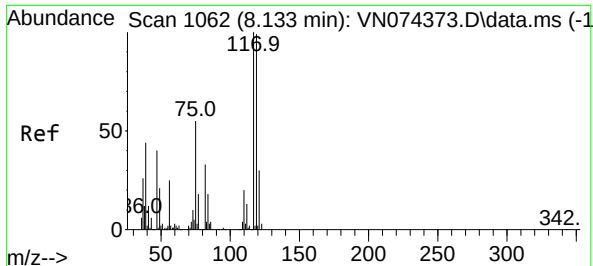
Ion Ratio Lower Upper

43 100

61 12.6 11.1 16.7

70 5.4 7.2 10.8#





#38

Carbon Tetrachloride

Concen: 5.277 ug/l

RT: 8.016 min Scan# 110

Delta R.T. -0.117 min

Lab File: VN074398.D

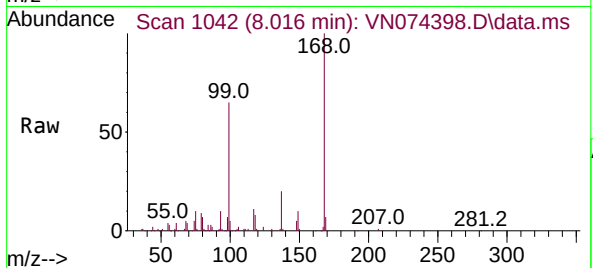
Acq: 10 Sep 2022 01:26

Instrument :

MSVOA_N

ClientSampleId :

S1-SO_PW002-20220902



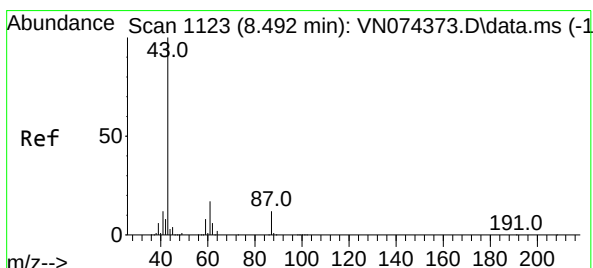
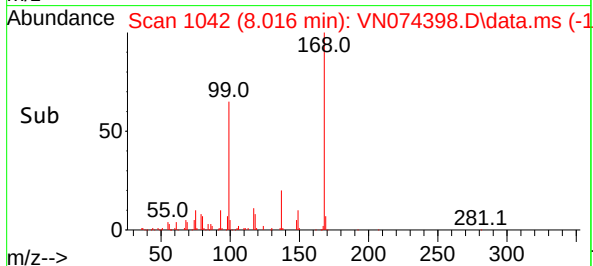
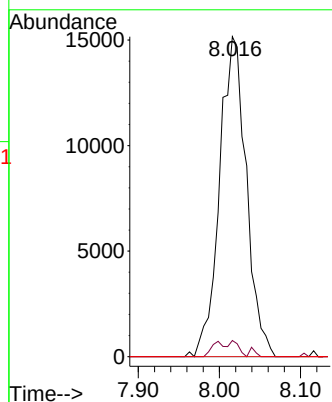
Tgt Ion:117 Resp: 34754

Ion Ratio Lower Upper

117 100

119 5.0 78.8 118.2#

121 0.0 24.1 36.1#



#43

Isopropyl Acetate

Concen: 23.069 ug/l

RT: 8.492 min Scan# 1123

Delta R.T. 0.000 min

Lab File: VN074398.D

Acq: 10 Sep 2022 01:26

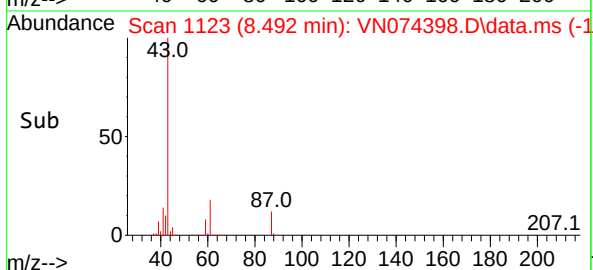
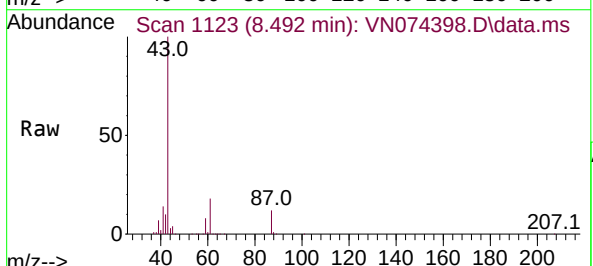
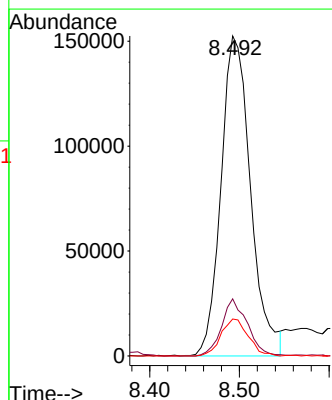
Tgt Ion: 43 Resp: 349151

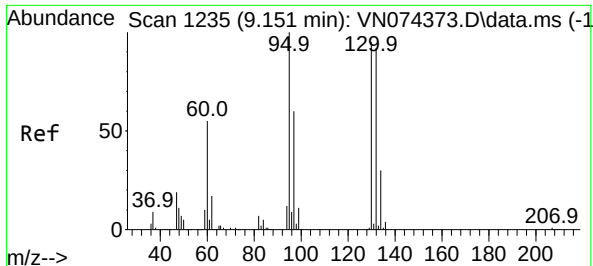
Ion Ratio Lower Upper

43 100

61 15.6 18.6 27.8#

87 10.6 9.4 14.2

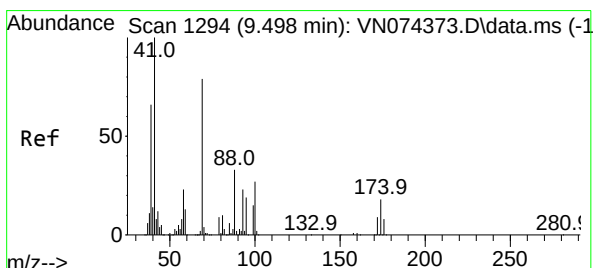
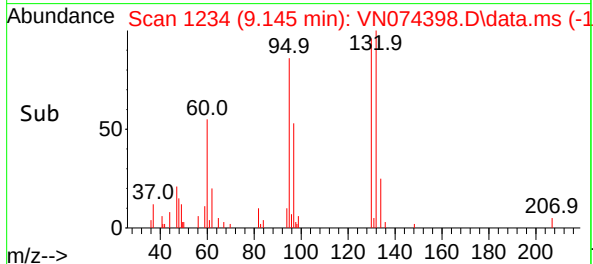
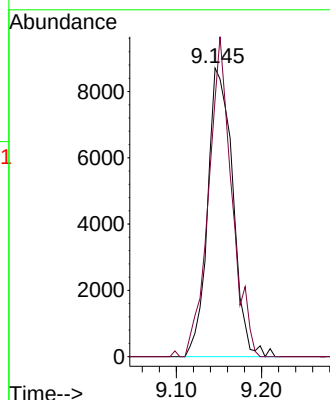
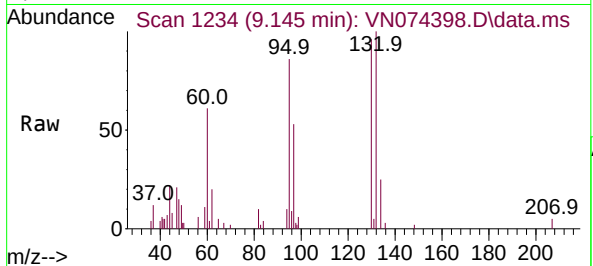




#44
Trichloroethene
Concen: 4.068 ug/l
RT: 9.145 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN074398.D
Acq: 10 Sep 2022 01:26

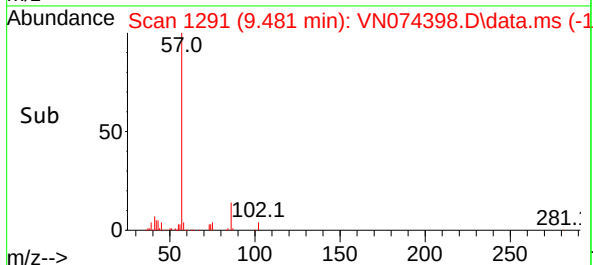
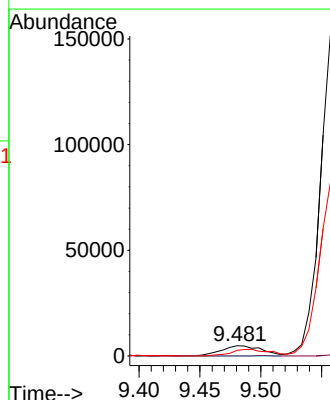
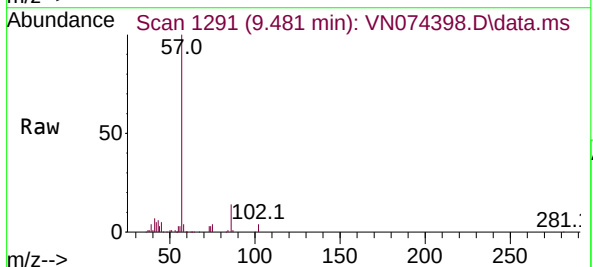
Instrument :
MSVOA_N
ClientSampleId :
S1-SO_PW002-20220902

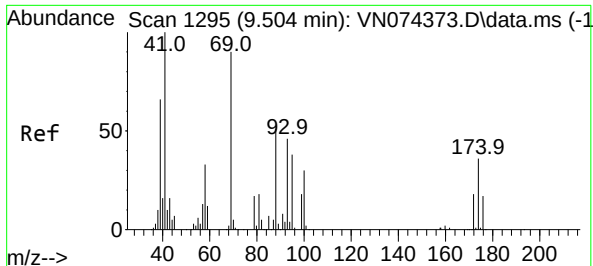
Tgt Ion:130 Resp: 17815
Ion Ratio Lower Upper
130 100
95 89.2 0.0 210.0



#48
Methyl methacrylate
Concen: 1.704 ug/l
RT: 9.481 min Scan# 1291
Delta R.T. -0.017 min
Lab File: VN074398.D
Acq: 10 Sep 2022 01:26

Tgt Ion: 41 Resp: 11365
Ion Ratio Lower Upper
41 100
69 0.0 67.6 101.4#
39 0.0 58.2 87.4#





#49

1,4-Dioxane

Concen: 1.074 ug/l

RT: 9.510 min Scan# 1295

Delta R.T. 0.006 min

Lab File: VN074398.D

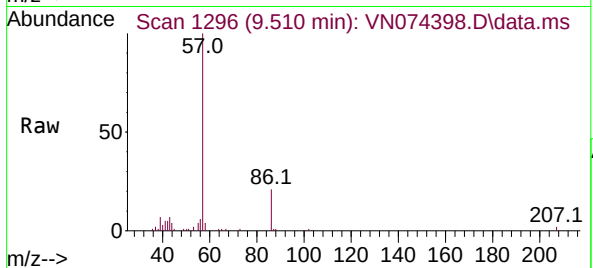
Acq: 10 Sep 2022 01:26

Instrument :

MSVOA_N

ClientSampleId :

S1-SO_PW002-20220902



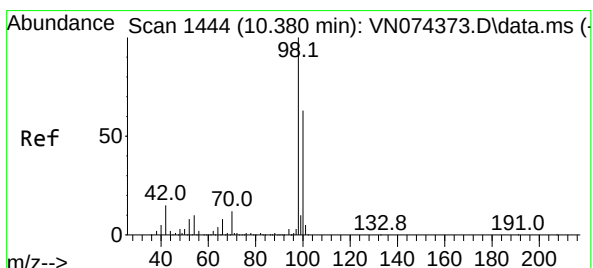
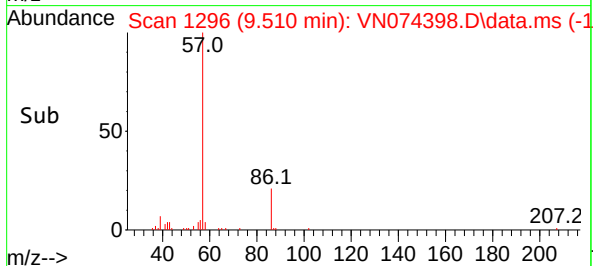
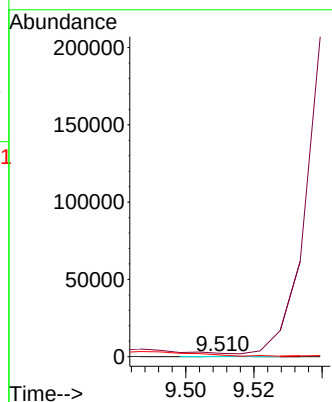
Tgt Ion: 88 Resp: 151

Ion Ratio Lower Upper

88 100

43 0.0 26.9 40.3#

58 0.0 52.7 79.1#



#50

Toluene-d8

Concen: 44.436 ug/l

RT: 10.381 min Scan# 1444

Delta R.T. 0.000 min

Lab File: VN074398.D

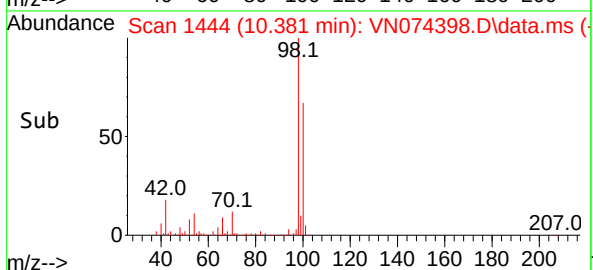
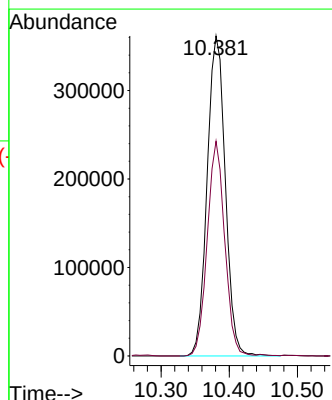
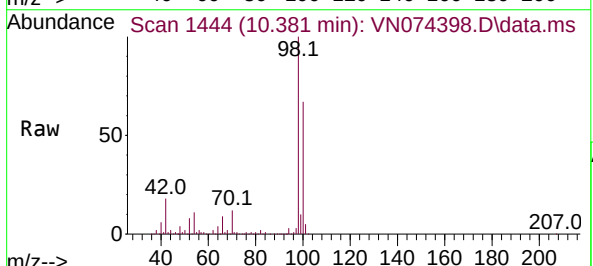
Acq: 10 Sep 2022 01:26

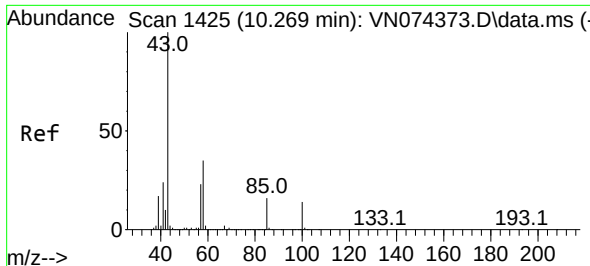
Tgt Ion: 98 Resp: 670502

Ion Ratio Lower Upper

98 100

100 64.4 50.6 76.0

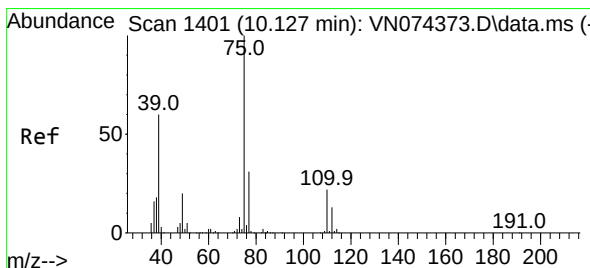
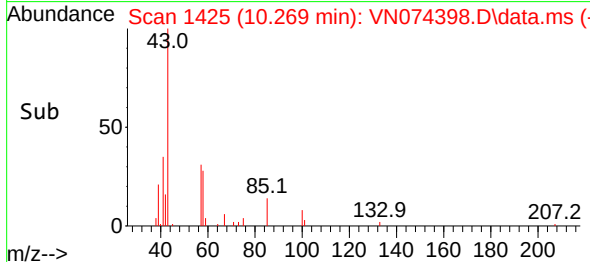
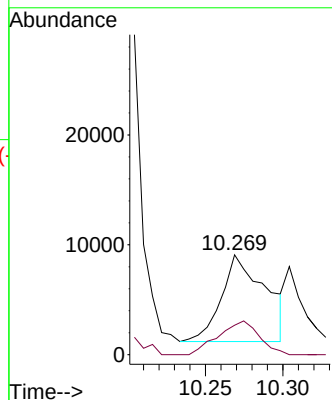
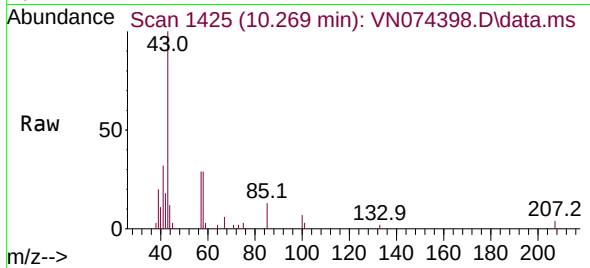




#51
4-Methyl-2-Pentanone
Concen: 1.565 ug/l
RT: 10.269 min Scan# 1425
Delta R.T. 0.000 min
Lab File: VN074398.D
Acq: 10 Sep 2022 01:26

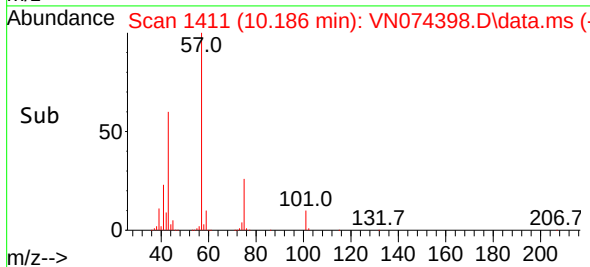
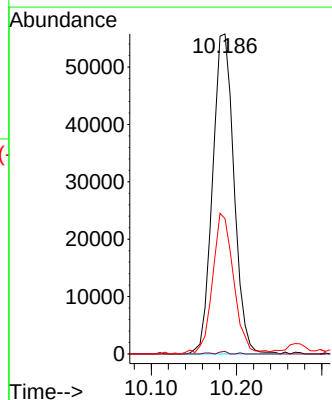
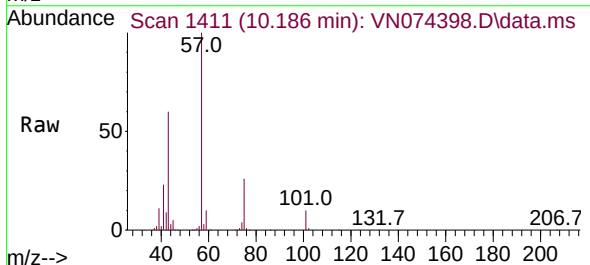
Instrument :
MSVOA_N
ClientSampleId :
S1-SO_PW002-20220902

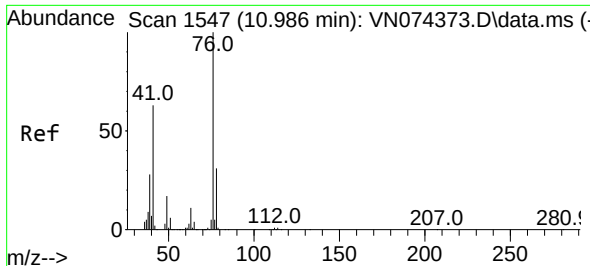
Tgt Ion: 43 Resp: 15490
Ion Ratio Lower Upper
43 100
58 36.2 29.0 43.6



#54
cis-1,3-Dichloropropene
Concen: 11.666 ug/l
RT: 10.186 min Scan# 1411
Delta R.T. 0.059 min
Lab File: VN074398.D
Acq: 10 Sep 2022 01:26

Tgt Ion: 75 Resp: 97088
Ion Ratio Lower Upper
75 100
77 0.8 24.5 36.7#
39 41.8 48.0 72.0#





#57

1,3-Dichloropropane

Concen: 1.414 ug/l

RT: 11.033 min Scan# 1555

Delta R.T. 0.047 min

Lab File: VN074398.D

Acq: 10 Sep 2022 01:26

Instrument :

MSVOA_N

ClientSampleId :

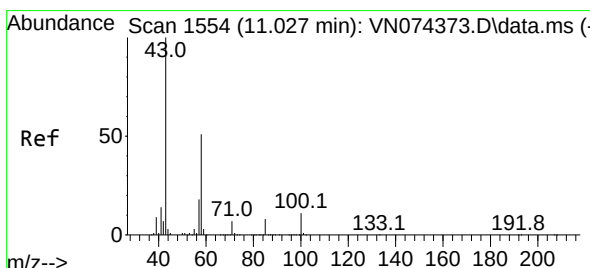
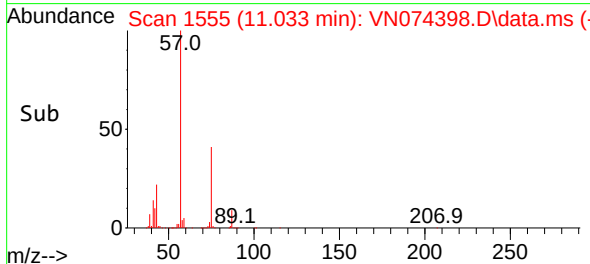
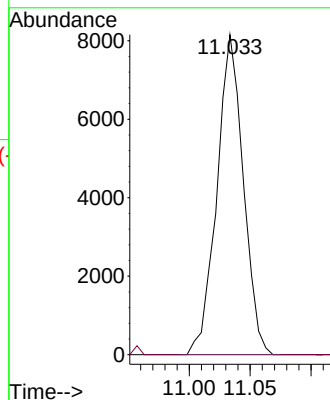
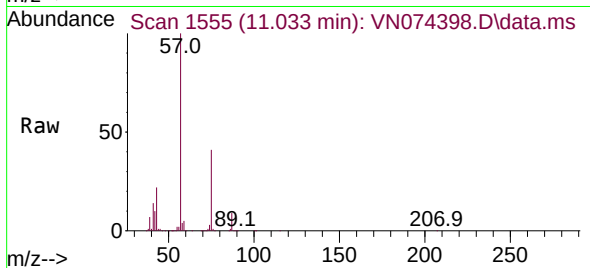
S1-SO_PW002-20220902

Tgt Ion: 76 Resp: 12303

Ion Ratio Lower Upper

76 100

78 0.0 25.0 37.4#



#59

2-Hexanone

Concen: 26.189 ug/l

RT: 11.033 min Scan# 1555

Delta R.T. 0.006 min

Lab File: VN074398.D

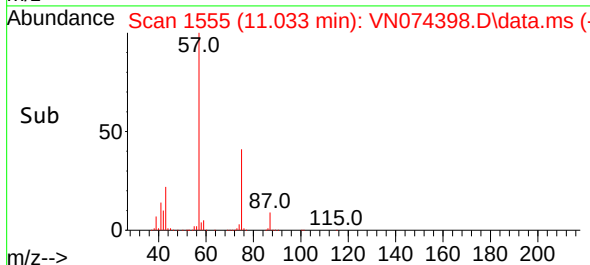
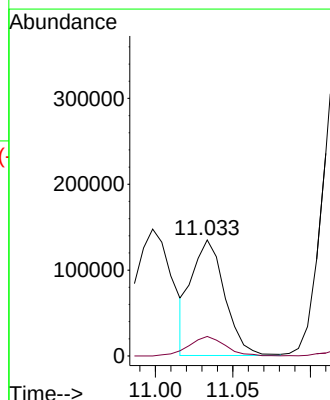
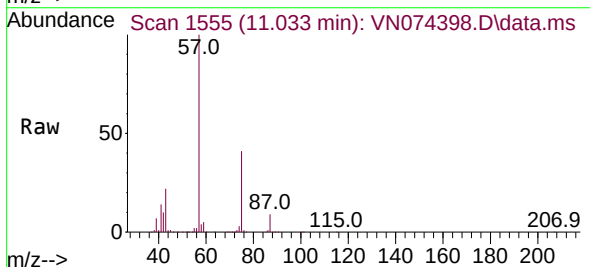
Acq: 10 Sep 2022 01:26

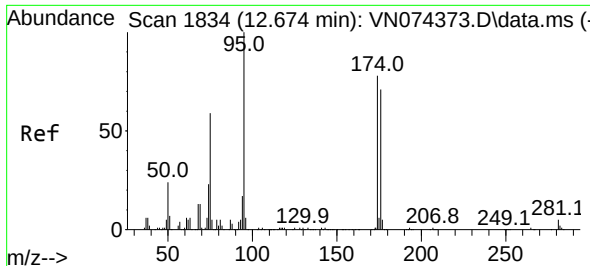
Tgt Ion: 43 Resp: 200033

Ion Ratio Lower Upper

43 100

58 18.4 25.8 77.3#

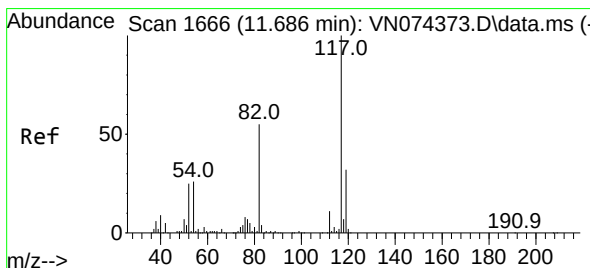
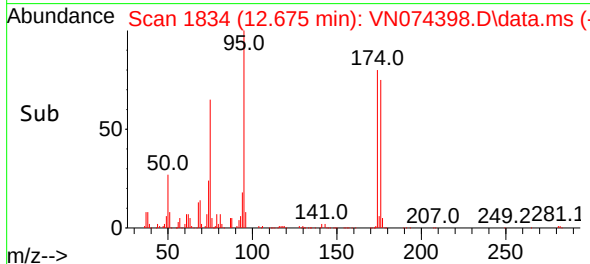
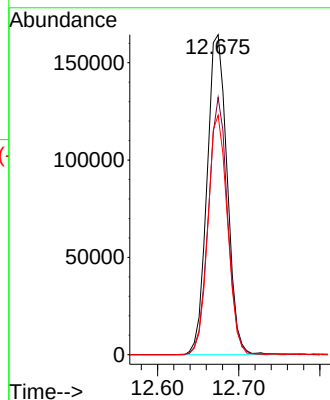
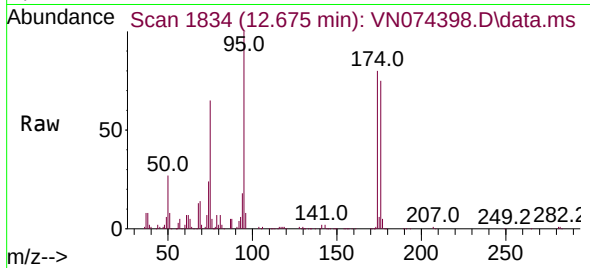




#62
4-Bromofluorobenzene
Concen: 51.550 ug/l
RT: 12.675 min Scan# 1834
Delta R.T. 0.000 min
Lab File: VN074398.D
Acq: 10 Sep 2022 01:26

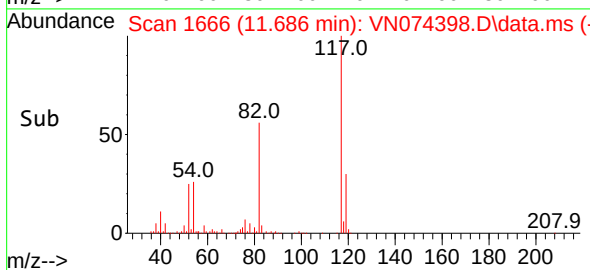
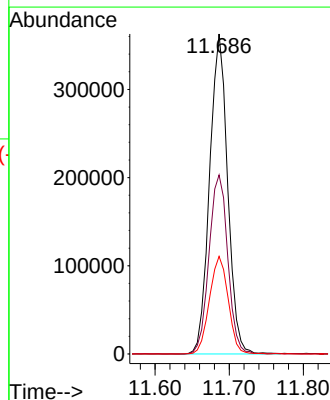
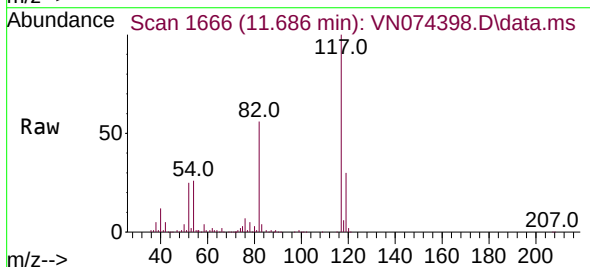
Instrument :
MSVOA_N
ClientSampleId :
S1-SO_PW002-20220902

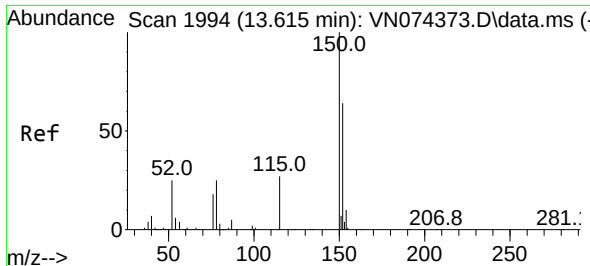
Tgt Ion: 95 Resp: 282406
Ion Ratio Lower Upper
95 100
174 76.7 0.0 150.6
176 72.7 0.0 143.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.686 min Scan# 1666
Delta R.T. 0.000 min
Lab File: VN074398.D
Acq: 10 Sep 2022 01:26

Tgt Ion: 117 Resp: 612694
Ion Ratio Lower Upper
117 100
82 55.9 44.3 66.5
119 30.5 25.5 38.3

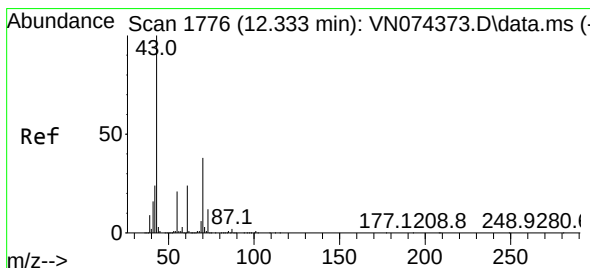
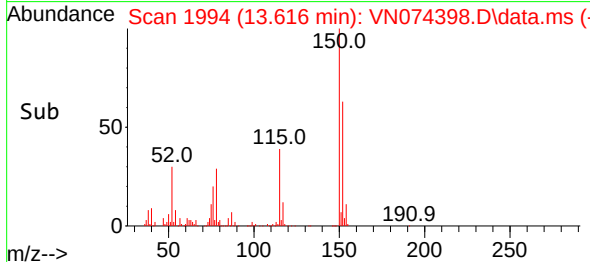
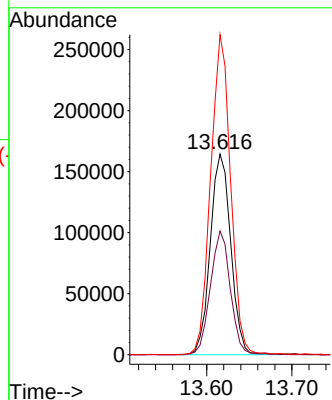
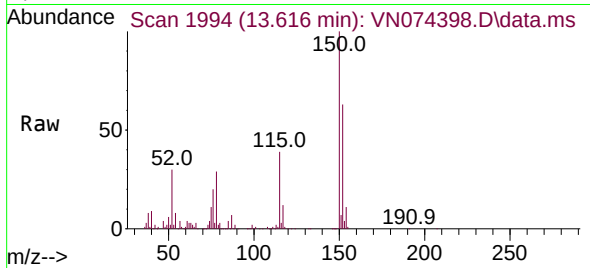




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.616 min Scan# 1994
Delta R.T. 0.001 min
Lab File: VN074398.D
Acq: 10 Sep 2022 01:26

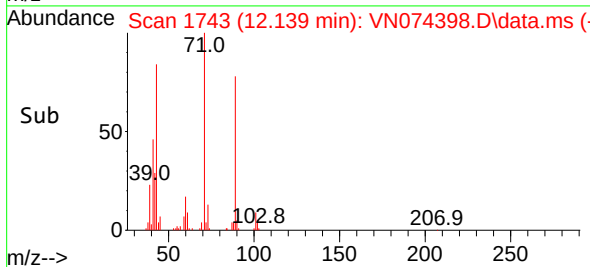
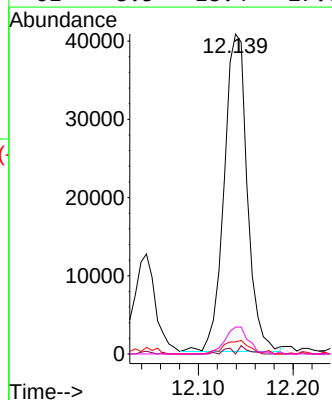
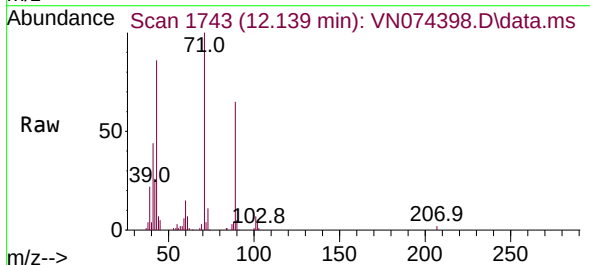
Instrument :
MSVOA_N
ClientSampleId :
S1-SO_PW002-20220902

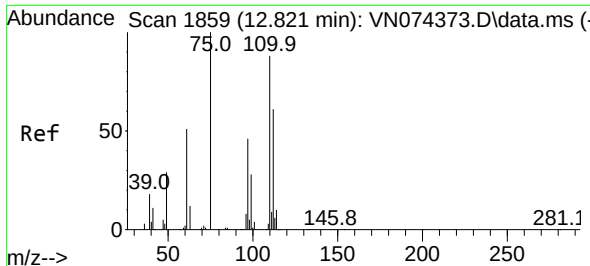
Tgt Ion:152 Resp: 273703
Ion Ratio Lower Upper
152 100
115 60.2 32.0 96.0
150 155.6 0.0 359.6



#74
N-ethyl acetate
Concen: 3.792 ug/l
RT: 12.139 min Scan# 1743
Delta R.T. -0.194 min
Lab File: VN074398.D
Acq: 10 Sep 2022 01:26

Tgt Ion: 43 Resp: 69146
Ion Ratio Lower Upper
43 100
70 1.0 31.4 47.0#
55 4.9 17.0 25.6#
61 8.5 18.4 27.6#

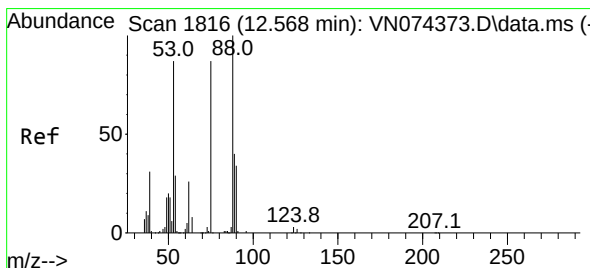
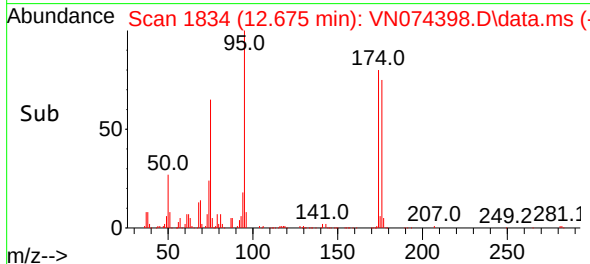
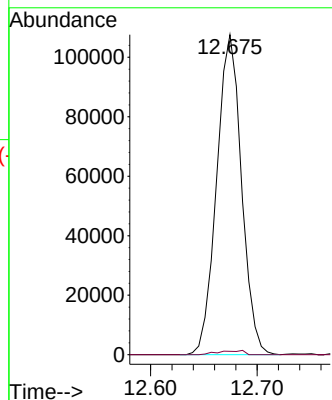
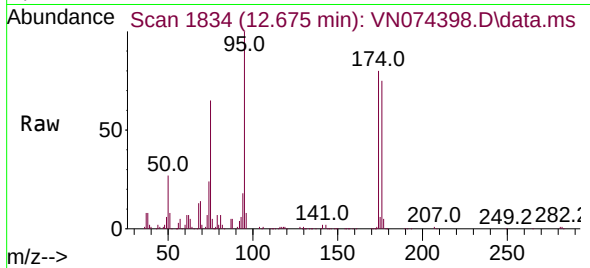




#76
1,2,3-Trichloropropane
Concen: 24.360 ug/l
RT: 12.675 min Scan# 1834
Delta R.T. -0.147 min
Lab File: VN074398.D
Acq: 10 Sep 2022 01:26

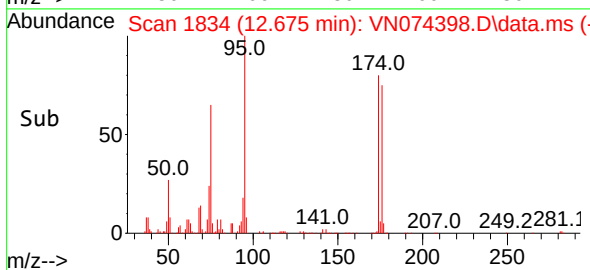
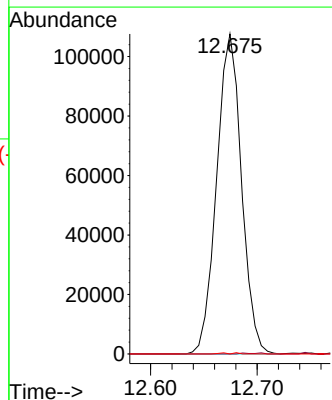
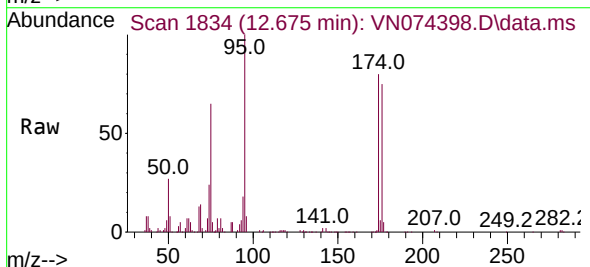
Instrument : MSVOA_N
ClientSampleId : S1-SO_PW002-20220902

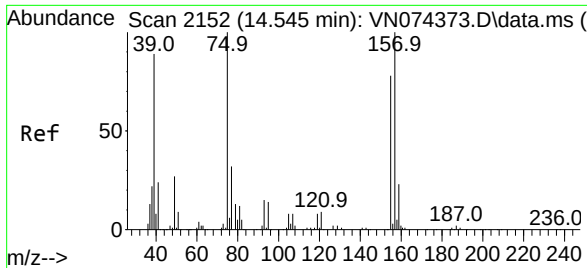
Tgt Ion: 75 Resp: 174295
Ion Ratio Lower Upper
75 100
77 1.3 78.9 236.7#



#81
trans-1,4-Dichloro-2-butene
Concen: 54.297 ug/l
RT: 12.675 min Scan# 1834
Delta R.T. 0.106 min
Lab File: VN074398.D
Acq: 10 Sep 2022 01:26

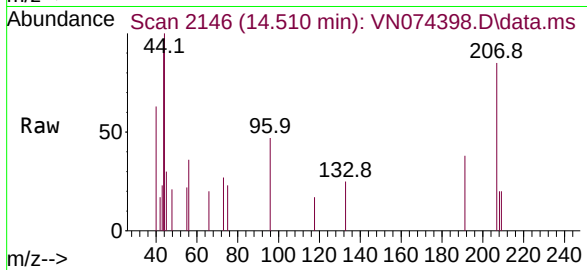
Tgt Ion: 75 Resp: 174295
Ion Ratio Lower Upper
75 100
53 0.0 82.2 123.2#
89 0.1 37.7 56.5#





#92
 1,2-Dibromo-3-Chloropropane
 Concen: Below Cal
 RT: 14.510 min Scan# 21
 Delta R.T. -0.035 min
 Lab File: VN074398.D
 Acq: 10 Sep 2022 01:26

Instrument :
 MSVOA_N
 ClientSampleId :
 S1-SO_PW002-20220902



Tgt Ion: 75 Resp: 76
 Ion Ratio Lower Upper
 75 100
 155 0.0 36.6 109.9#
 157 0.0 46.2 138.5#

