

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090922\
 Data File : VN074397.D
 Acq On : 10 Sep 2022 01:02
 Operator : JC\MD
 Sample : N4509-14
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 S1-SO_PW001-20220902

Quant Time: Sep 10 07:30:35 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)

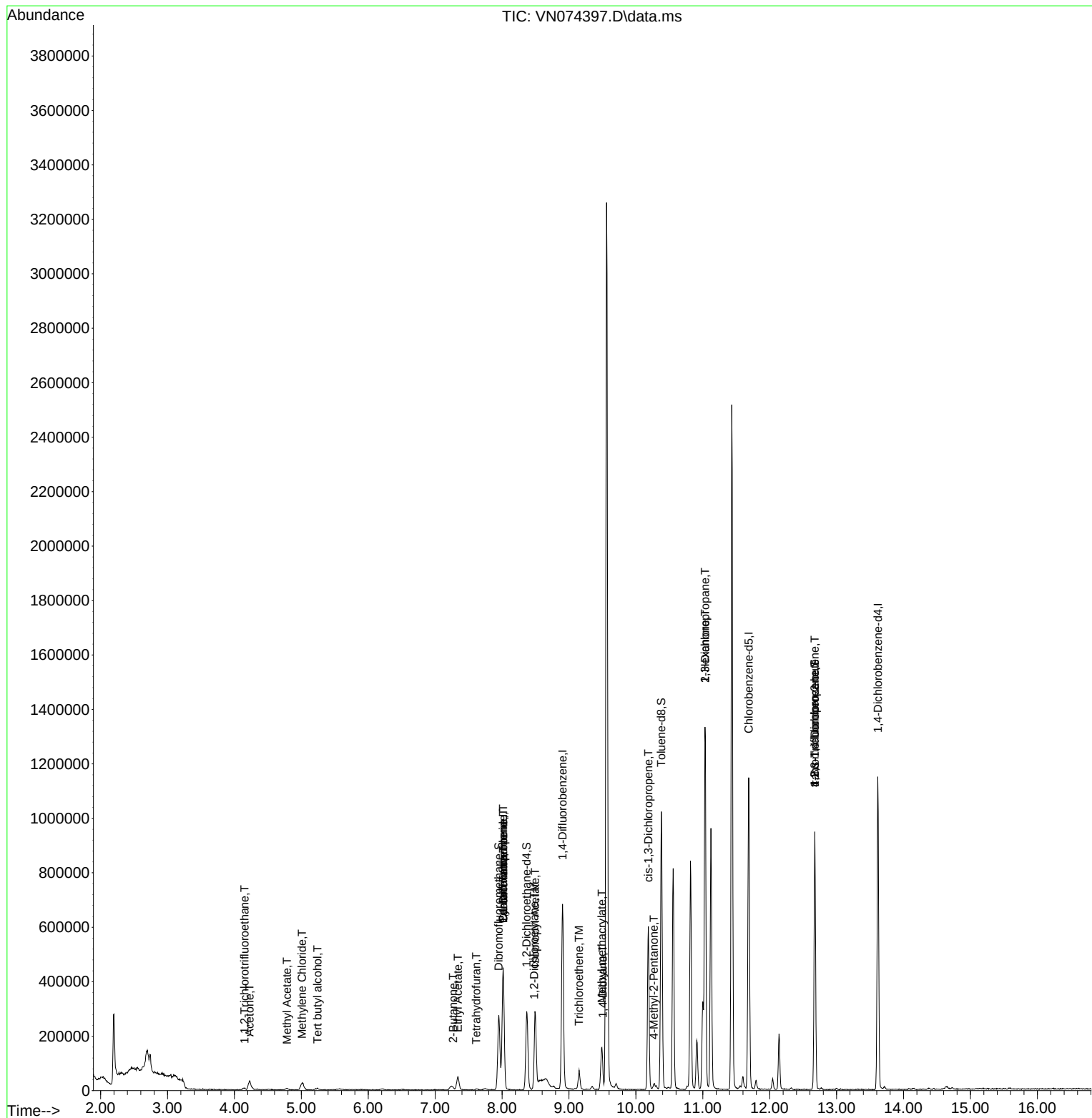
Internal Standards						
1) Pentafluorobenzene	8.016	168	312118	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.904	114	554951	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.686	117	588273	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.615	152	266980	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.369	65	226422	41.929	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	83.860%		
35) Dibromofluoromethane	7.951	113	182841	48.804	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	97.600%		
50) Toluene-d8	10.380	98	646311	44.274	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	88.540%		
62) 4-Bromofluorobenzene	12.674	95	274501	51.793	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	103.580%		
Target Compounds						Qvalue
3) Chloromethane	2.263	50	1618	Below Cal	#	80
6) Chloroethane	2.898	64	6102	Below Cal	#	58
9) 1,1,2-Trichlorotrifluo...	4.151	101	4484	1.121	ug/l #	30
11) Tert butyl alcohol	5.239	59	3616	2.560	ug/l #	71
16) Acetone	4.228	43	59886	20.541	ug/l	96
18) Methyl Acetate	4.787	43	10067	1.171	ug/l #	88
20) Methylene Chloride	5.010	84	19103	3.053	ug/l	88
25) 2-Butanone	7.269	43	11245	2.298	ug/l	90
29) Tetrahydrofuran	7.616	42	1349	0.417	ug/l #	59
31) Cyclohexane	8.016	56	9862	1.148	ug/l #	40
36) 1,1-Dichloropropene	8.016	75	31951	5.177	ug/l #	51
37) Ethyl Acetate	7.339	43	76029	8.492	ug/l	99
38) Carbon Tetrachloride	8.016	117	33767	5.299	ug/l #	16
42) 1,2-Dichloroethane	8.480	62	1826	0.253	ug/l #	76
43) Isopropyl Acetate	8.492	43	341844	23.347	ug/l #	91
44) Trichloroethene	9.151	130	19830	4.681	ug/l	94
48) Methyl methacrylate	9.492	41	10379	1.608	ug/l #	44
49) 1,4-Dioxane	9.504	88	199	1.463	ug/l #	25
51) 4-Methyl-2-Pentanone	10.269	43	15949	1.666	ug/l	93
54) cis-1,3-Dichloropropene	10.186	75	95411	11.850	ug/l #	64
57) 1,3-Dichloropropane	11.033	76	14404	1.711	ug/l #	45
59) 2-Hexanone	11.033	43	203034	27.476	ug/l #	52
74) N-amyl acetate	12.321	43	2680	Below Cal	#	54
76) 1,2,3-Trichloropropane	12.674	75	166626	23.874	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.674	75	166626	53.215	ug/l #	9
92) 1,2-Dibromo-3-Chloropr...	14.733	75	185	Below Cal	#	8

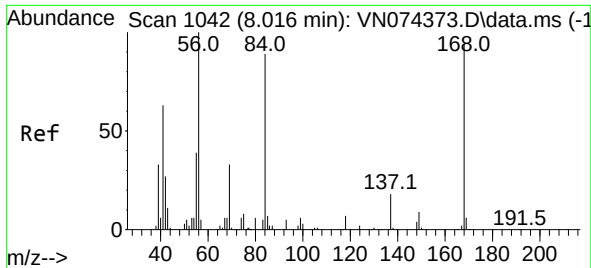
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

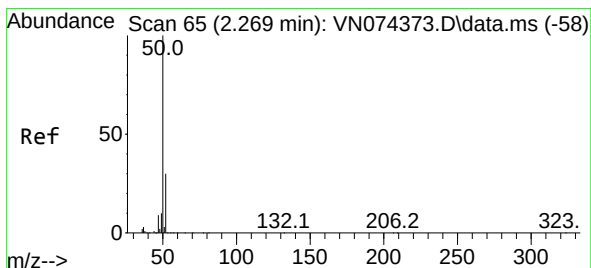
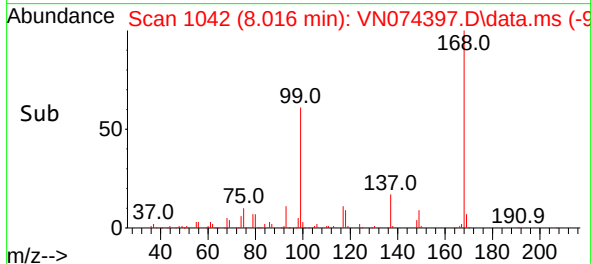
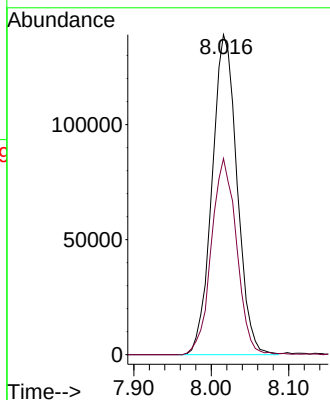
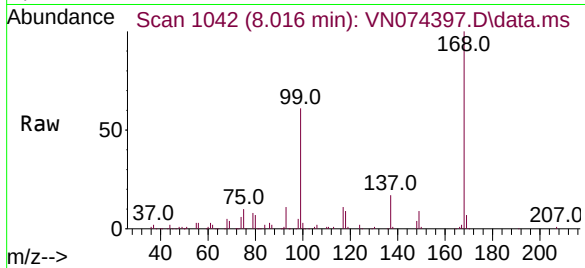




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.000 min
Lab File: VN074397.D
Acq: 10 Sep 2022 01:02

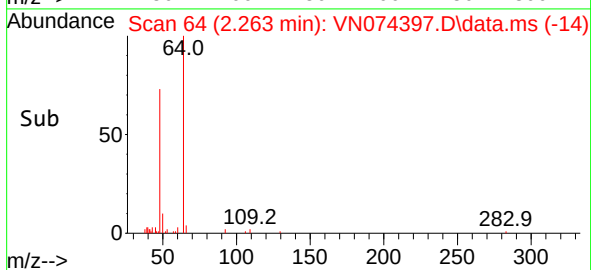
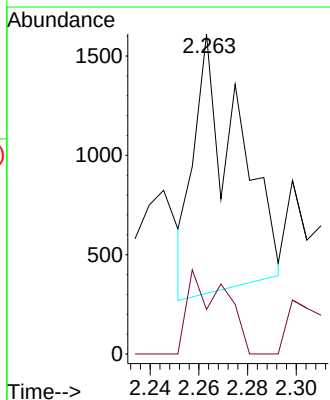
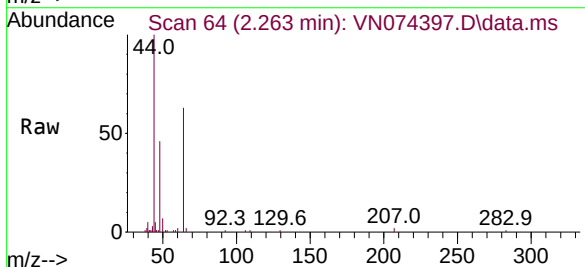
Instrument :
MSVOA_N
ClientSampleId :
S1-SO_PW001-20220902

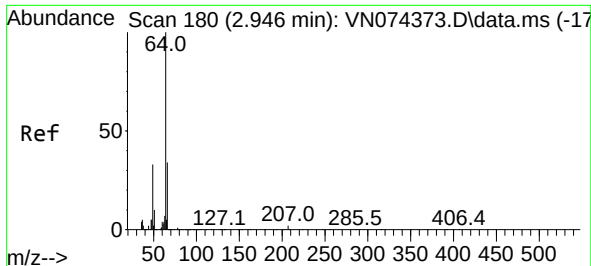
Tgt Ion:168 Resp: 312118
Ion Ratio Lower Upper
168 100
99 61.3 52.8 79.2



#3
Chloromethane
Concen: Below Cal
RT: 2.263 min Scan# 64
Delta R.T. -0.006 min
Lab File: VN074397.D
Acq: 10 Sep 2022 01:02

Tgt Ion: 50 Resp: 1618
Ion Ratio Lower Upper
50 100
52 19.4 24.1 36.1#

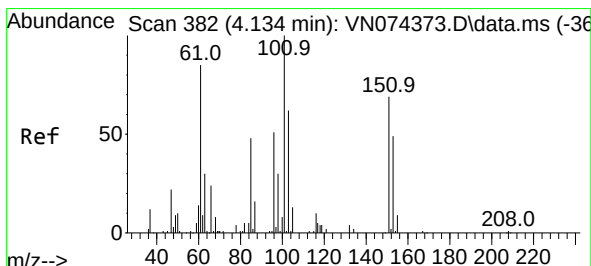
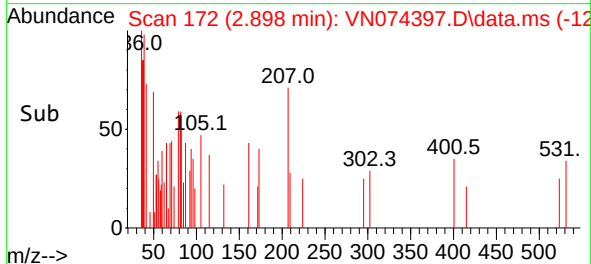
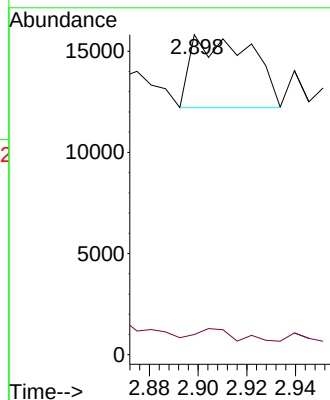
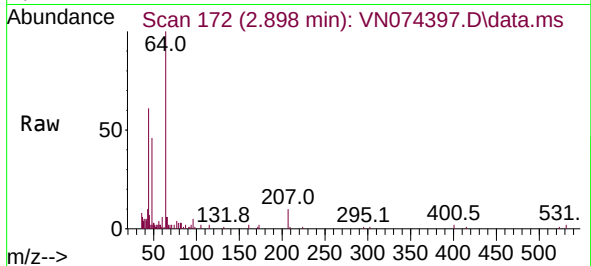




#6
Chloroethane
Concen: Below Cal
RT: 2.898 min Scan# 11
Delta R.T. -0.048 min
Lab File: VN074397.D
Acq: 10 Sep 2022 01:02

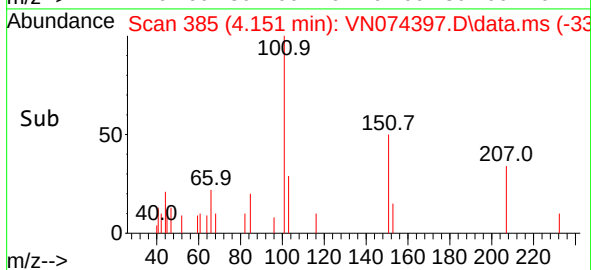
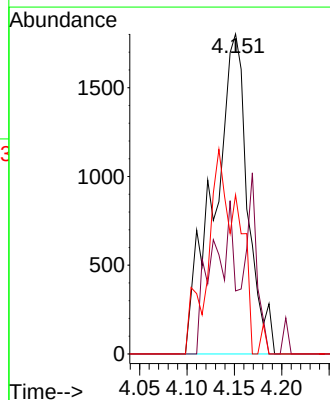
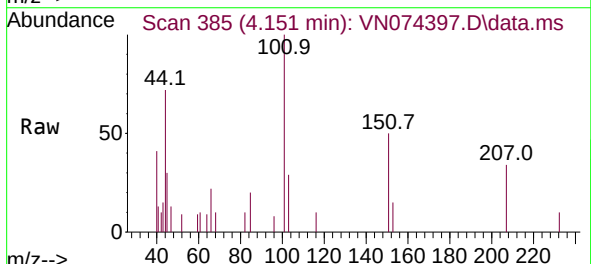
Instrument :
MSVOA_N
ClientSampleId :
S1-SO_PW001-20220902

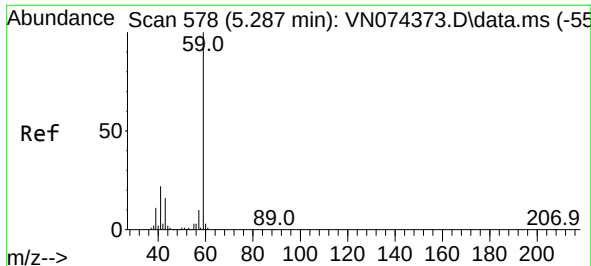
Tgt Ion: 64 Resp: 6102
Ion Ratio Lower Upper
64 100
66 9.2 26.5 39.7#



#9
1,1,2-Trichlorotrifluoroethane
Concen: 1.121 ug/l
RT: 4.151 min Scan# 385
Delta R.T. 0.018 min
Lab File: VN074397.D
Acq: 10 Sep 2022 01:02

Tgt Ion:101 Resp: 4484
Ion Ratio Lower Upper
101 100
85 17.2 39.5 59.3#
151 0.0 57.8 86.6#

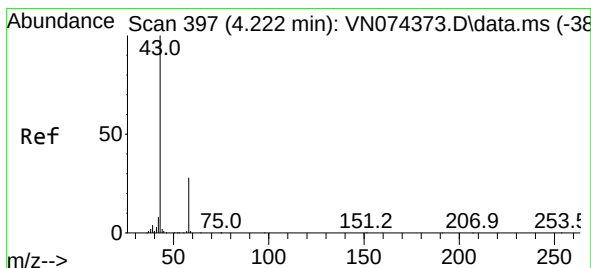
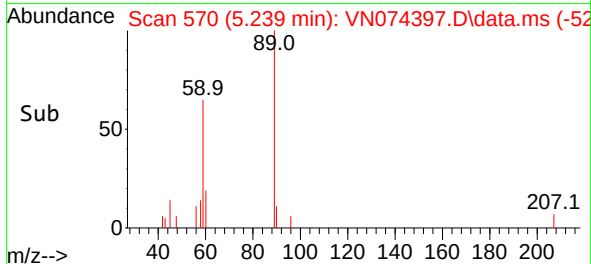
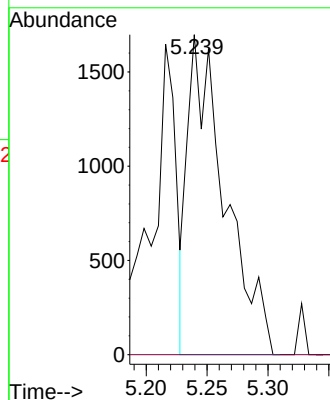
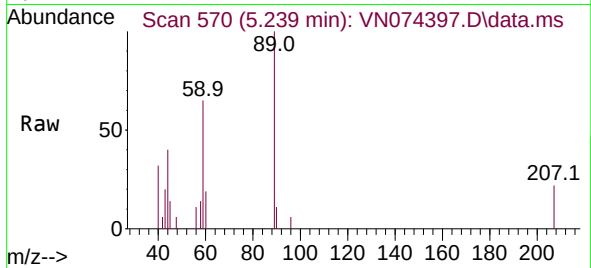




#11
Tert butyl alcohol
Concen: 2.560 ug/l
RT: 5.239 min Scan# 51
Delta R.T. -0.047 min
Lab File: VN074397.D
Acq: 10 Sep 2022 01:02

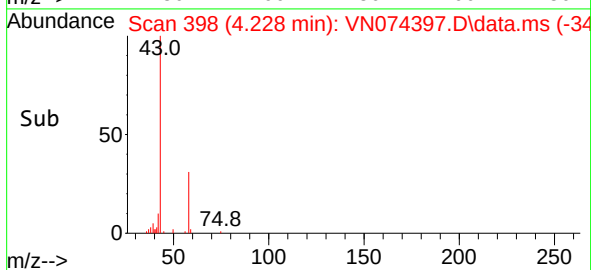
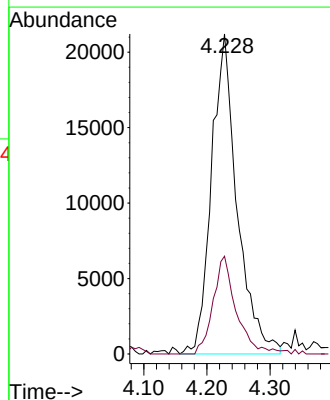
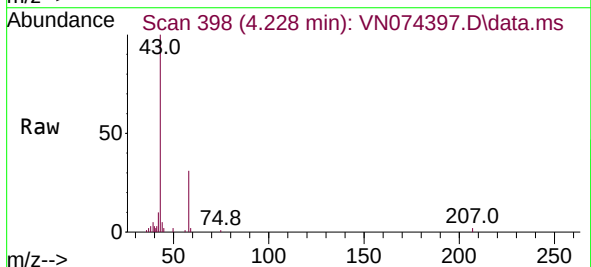
Instrument :
MSVOA_N
ClientSampleId :
S1-SO_PW001-20220902

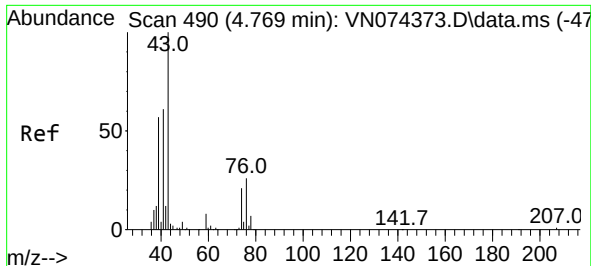
Tgt Ion: 59 Resp: 3616
Ion Ratio Lower Upper
59 100
57 0.0 8.8 13.2#



#16
Acetone
Concen: 20.541 ug/l
RT: 4.228 min Scan# 398
Delta R.T. 0.006 min
Lab File: VN074397.D
Acq: 10 Sep 2022 01:02

Tgt Ion: 43 Resp: 59886
Ion Ratio Lower Upper
43 100
58 30.6 22.7 34.1

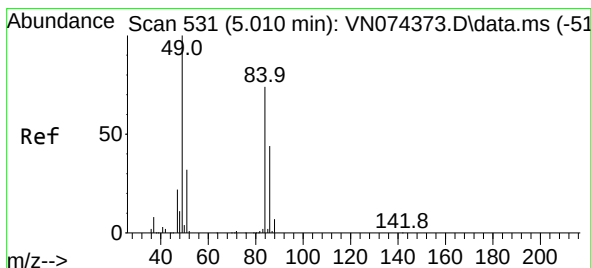
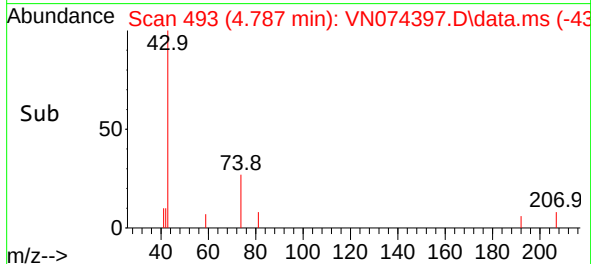
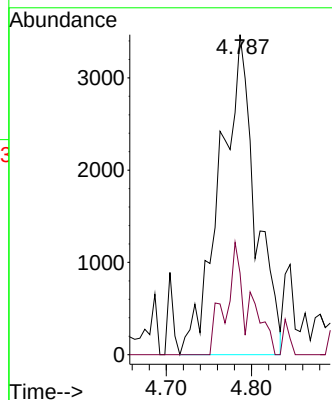
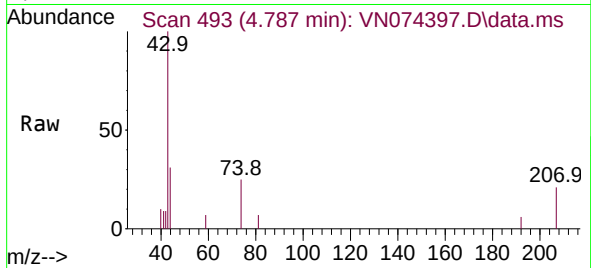




#18
Methyl Acetate
Concen: 1.171 ug/l
RT: 4.787 min Scan# 493
Delta R.T. 0.018 min
Lab File: VN074397.D
Acq: 10 Sep 2022 01:02

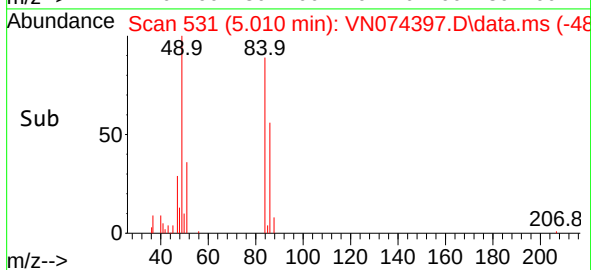
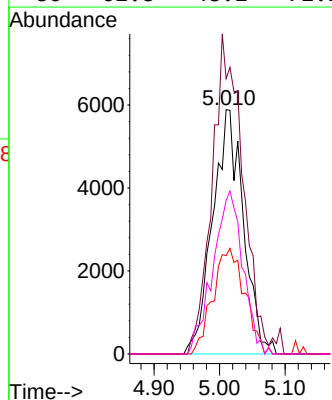
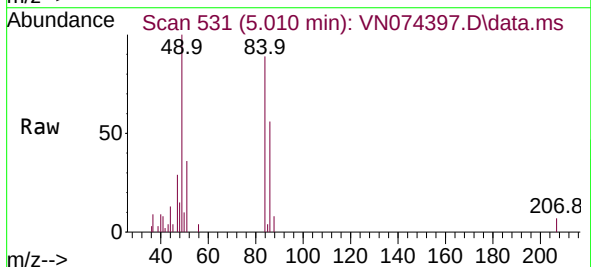
Instrument :
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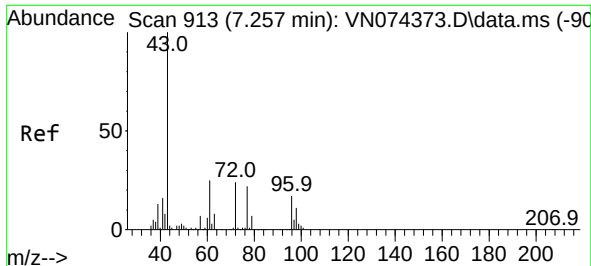
Tgt Ion: 43 Resp: 10067
Ion Ratio Lower Upper
43 100
74 15.2 16.7 25.1#



#20
Methylene Chloride
Concen: 3.053 ug/l
RT: 5.010 min Scan# 531
Delta R.T. 0.000 min
Lab File: VN074397.D
Acq: 10 Sep 2022 01:02

Tgt Ion: 84 Resp: 19103
Ion Ratio Lower Upper
84 100
49 112.7 108.2 162.4
51 40.3 34.3 51.5
86 62.8 48.2 72.2

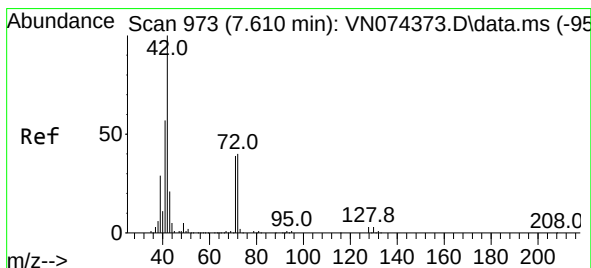
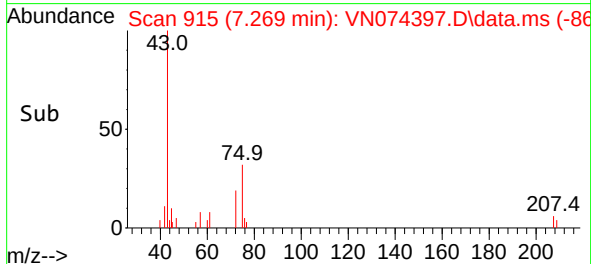
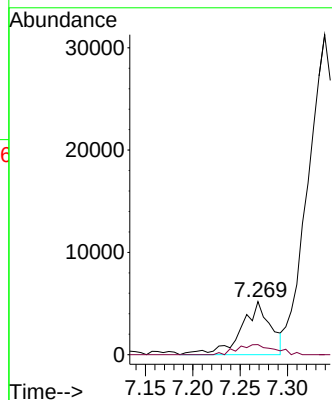
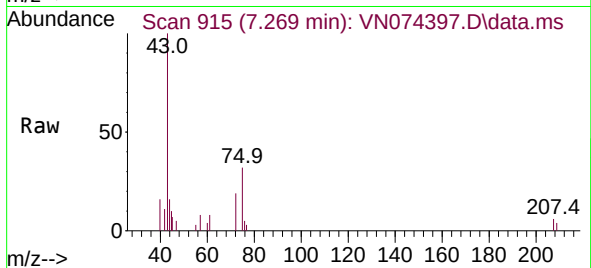




#25
2-Butanone
Concen: 2.298 ug/l
RT: 7.269 min Scan# 915
Delta R.T. 0.012 min
Lab File: VN074397.D
Acq: 10 Sep 2022 01:02

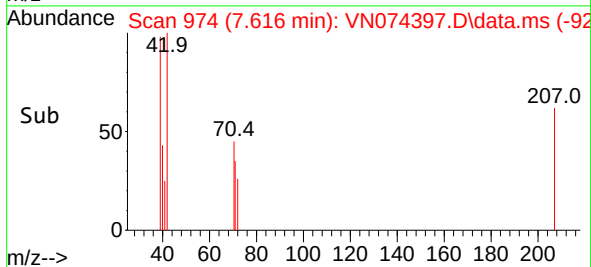
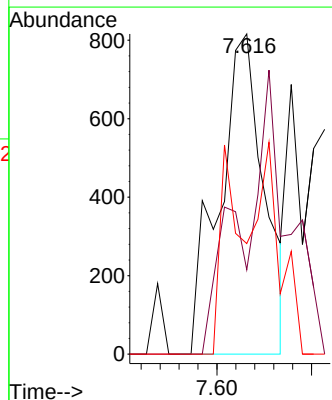
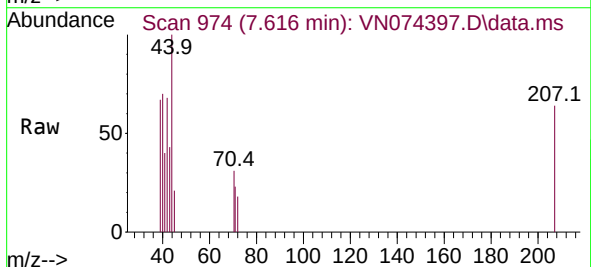
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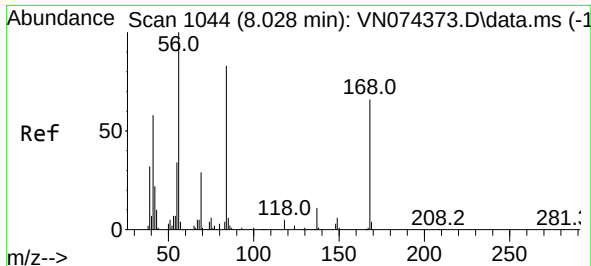
Tgt Ion: 43 Resp: 11245
Ion Ratio Lower Upper
43 100
72 18.9 18.9 28.3



#29
Tetrahydrofuran
Concen: 0.417 ug/l
RT: 7.616 min Scan# 974
Delta R.T. 0.006 min
Lab File: VN074397.D
Acq: 10 Sep 2022 01:02

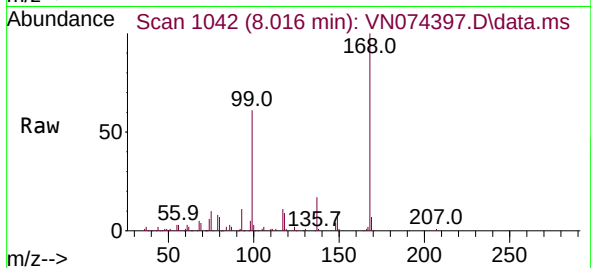
Tgt Ion: 42 Resp: 1349
Ion Ratio Lower Upper
42 100
72 0.0 32.7 49.1#
71 29.4 31.0 46.6#



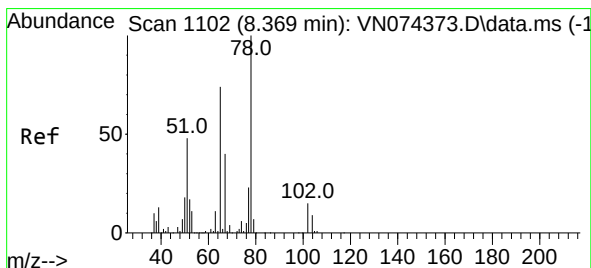
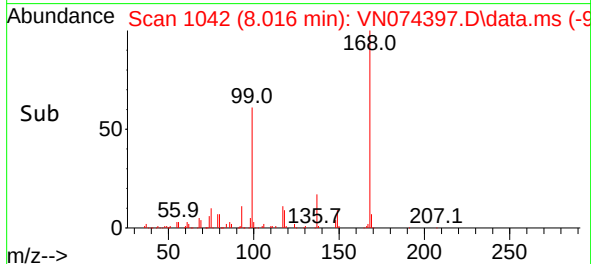
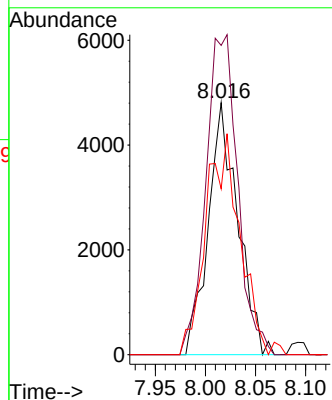


#31
Cyclohexane
Concen: 1.148 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.012 min
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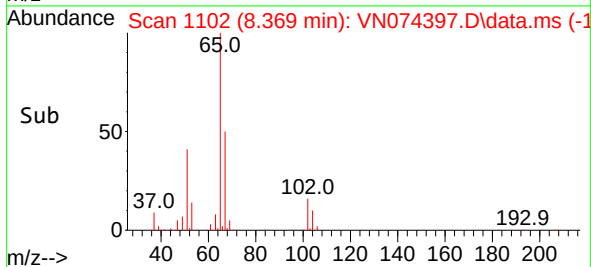
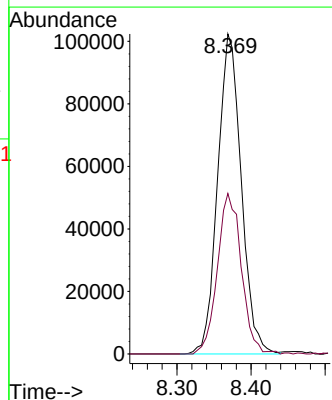
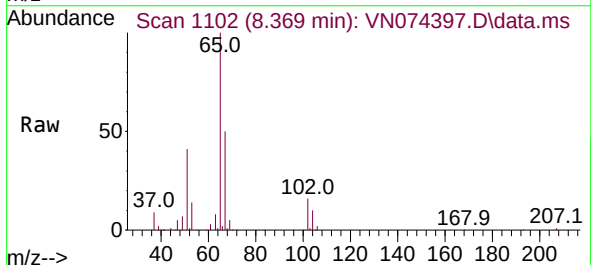


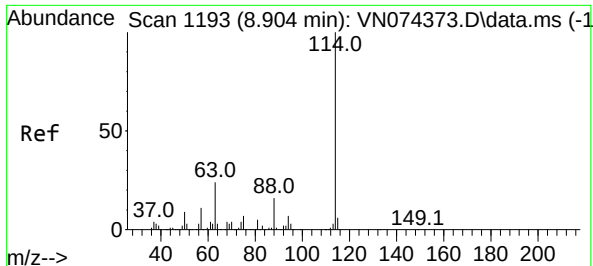
Tgt Ion: 56 Resp: 9862
Ion Ratio Lower Upper
56 100
69 122.7 23.0 34.4#
84 65.8 66.3 99.5#



#33
1,2-Dichloroethane-d4
Concen: 41.929 ug/l
RT: 8.369 min Scan# 1102
Delta R.T. -0.000 min
Lab File: VN074397.D
Acq: 10 Sep 2022 01:02

Tgt Ion: 65 Resp: 226422
Ion Ratio Lower Upper
65 100
67 50.9 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: VN074397.D

Acq: 10 Sep 2022 01:02

Instrument :

MSVOA_N

ClientSampleId :

S1-SO_PW001-20220902

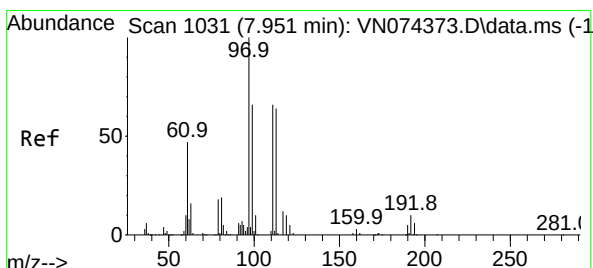
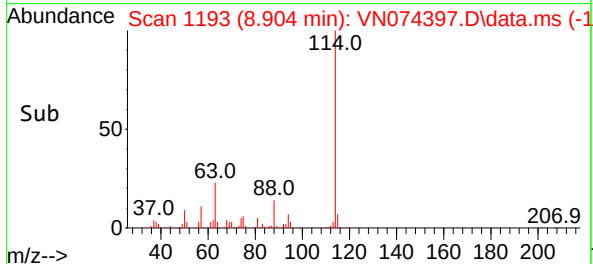
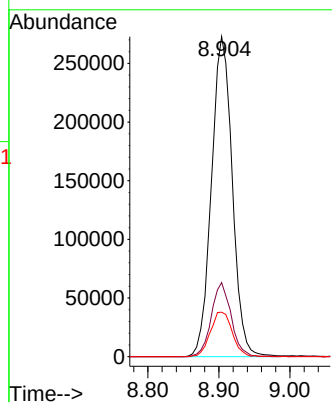
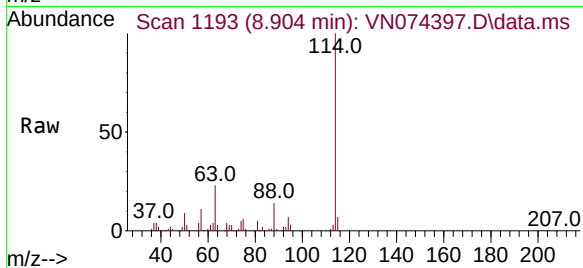
Tgt Ion:114 Resp: 554951

Ion Ratio Lower Upper

114 100

63 23.2 0.0 47.6

88 13.9 0.0 31.4



#35

Dibromofluoromethane

Concen: 48.804 ug/l

RT: 7.951 min Scan# 1031

Delta R.T. -0.000 min

Lab File: VN074397.D

Acq: 10 Sep 2022 01:02

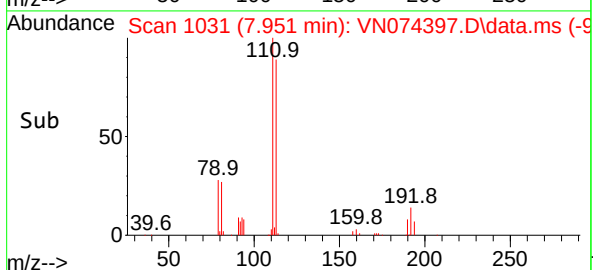
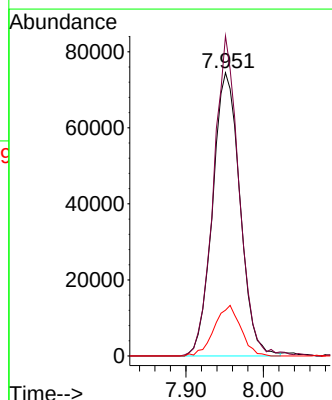
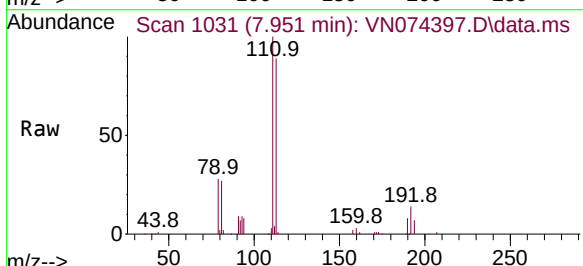
Tgt Ion:113 Resp: 182841

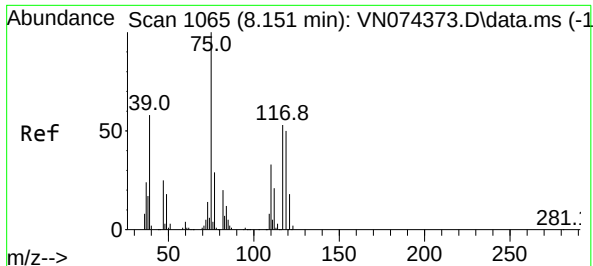
Ion Ratio Lower Upper

113 100

111 105.3 83.0 124.4

192 17.3 13.7 20.5





#36

1,1-Dichloropropene

Concen: 5.177 ug/l

RT: 8.016 min Scan# 1042

Delta R.T. -0.135 min

Lab File: VN074397.D

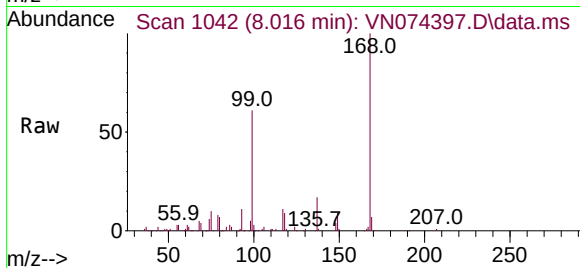
Acq: 10 Sep 2022 01:02

Instrument :

MSVOA_N

ClientSampleId :

S1-SO_PW001-20220902



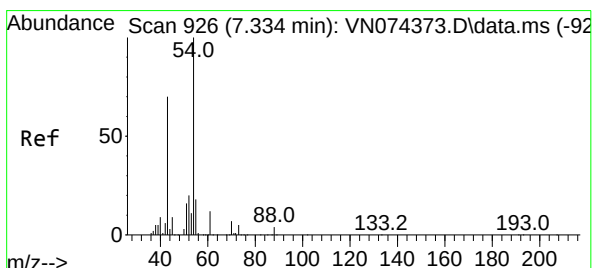
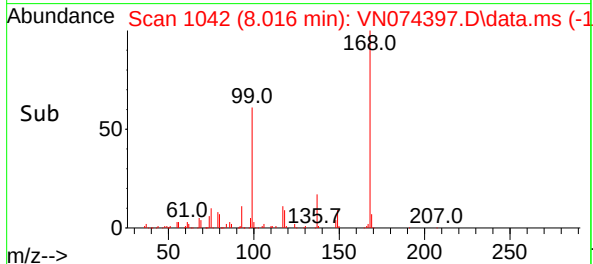
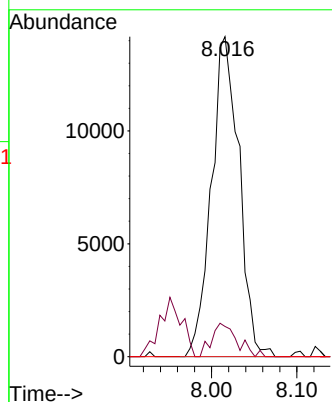
Tgt Ion: 75 Resp: 31951

Ion Ratio Lower Upper

75 100

110 9.6 16.4 49.1#

77 0.0 25.4 38.2#



#37

Ethyl Acetate

Concen: 8.492 ug/l

RT: 7.339 min Scan# 927

Delta R.T. 0.006 min

Lab File: VN074397.D

Acq: 10 Sep 2022 01:02

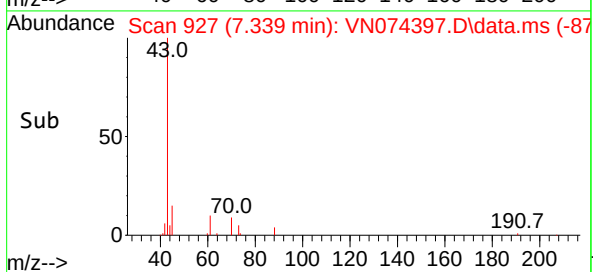
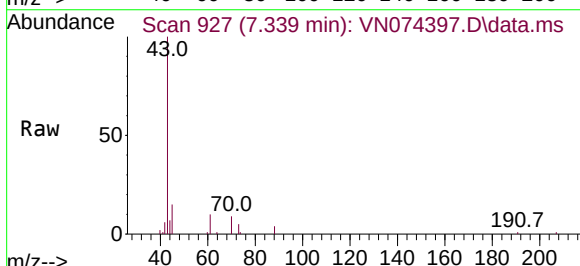
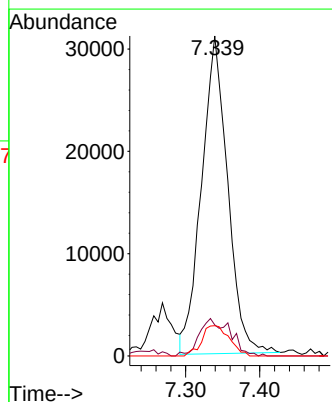
Tgt Ion: 43 Resp: 76029

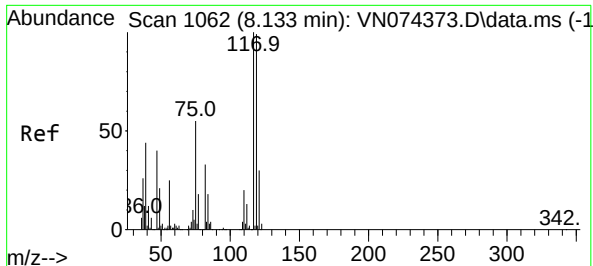
Ion Ratio Lower Upper

43 100

61 14.0 11.1 16.7

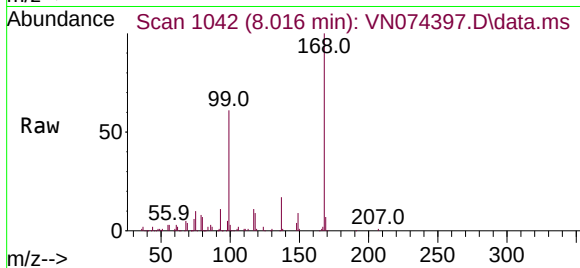
70 10.1 7.2 10.8



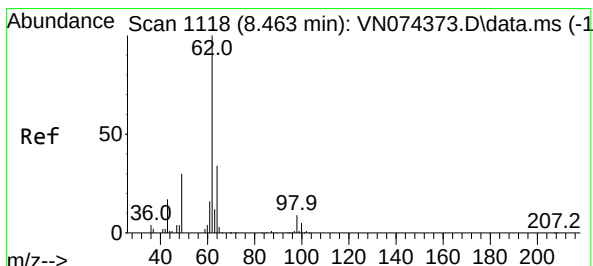
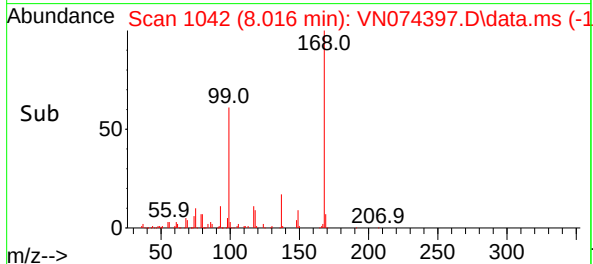
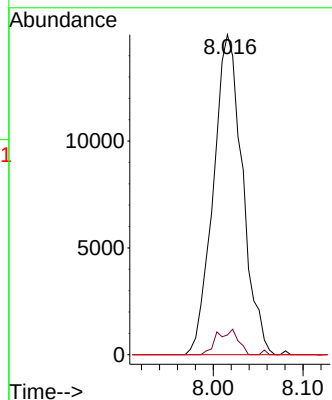


#38
Carbon Tetrachloride
Concen: 5.299 ug/l
RT: 8.016 min Scan# 1117
Delta R.T. -0.118 min
Lab File: VN074397.D
Acq: 10 Sep 2022 01:02

Instrument :
MSVOA_N
ClientSampleId :
S1-SO_PW001-20220902

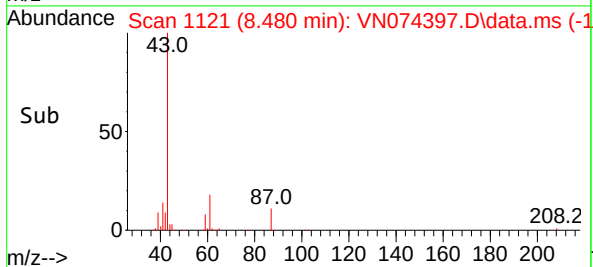
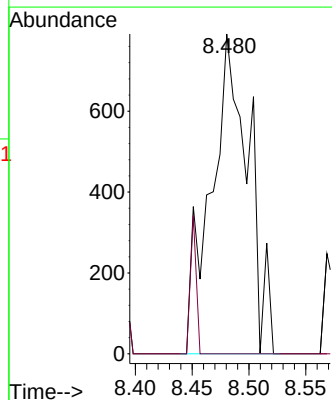
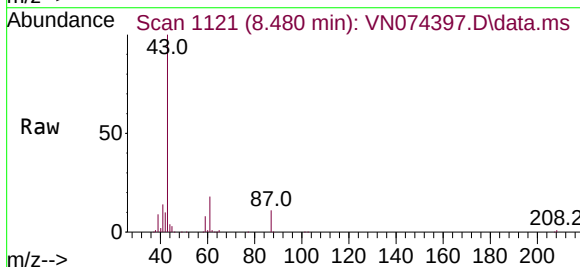


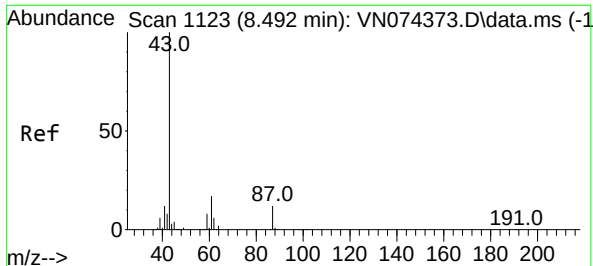
Tgt Ion:117 Resp: 33767
Ion Ratio Lower Upper
117 100
119 6.2 78.8 118.2#
121 0.0 24.1 36.1#



#42
1,2-Dichloroethane
Concen: 0.253 ug/l
RT: 8.480 min Scan# 1121
Delta R.T. 0.018 min
Lab File: VN074397.D
Acq: 10 Sep 2022 01:02

Tgt Ion: 62 Resp: 1826
Ion Ratio Lower Upper
62 100
98 0.0 0.0 17.6

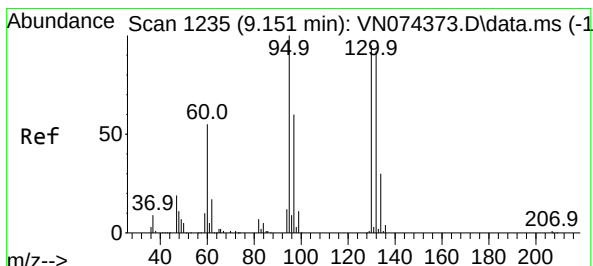
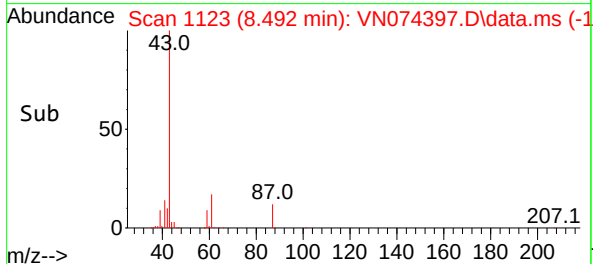
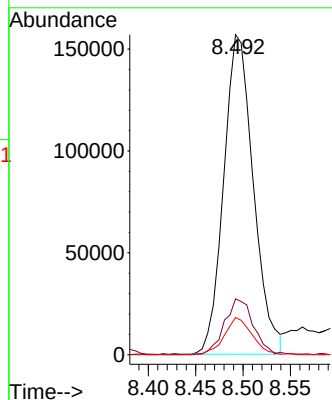
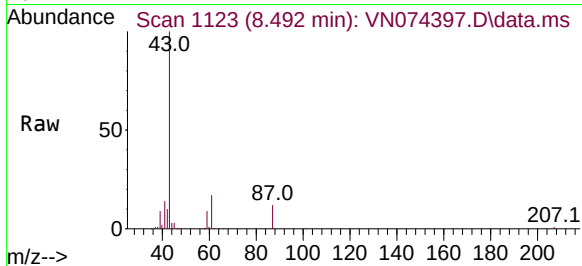




#43
Isopropyl Acetate
Concen: 23.347 ug/l
RT: 8.492 min Scan# 1123
Delta R.T. -0.000 min
Lab File: VN074397.D
Acq: 10 Sep 2022 01:02

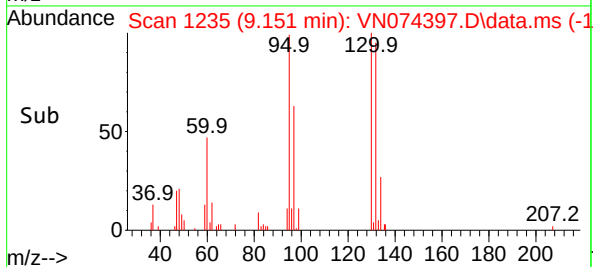
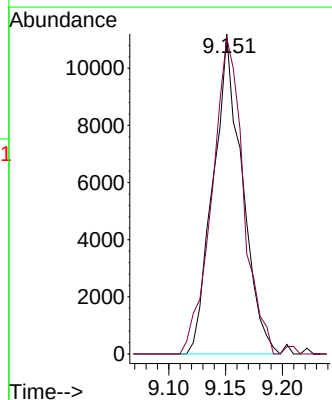
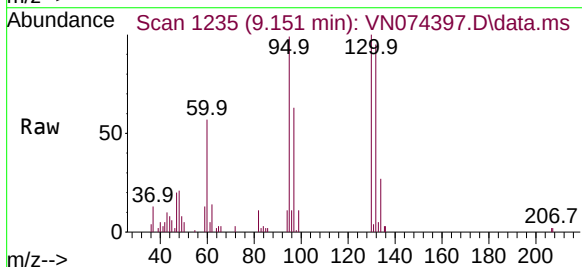
Instrument :
MSVOA_N
ClientSampleId :
S1-SO_PW001-20220902

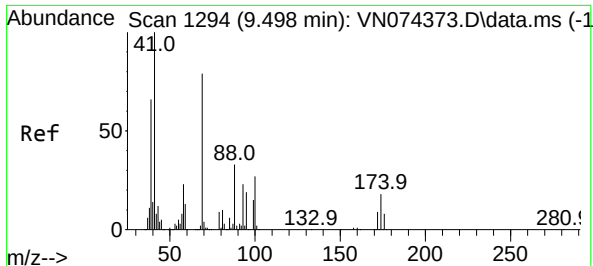
Tgt Ion: 43 Resp: 341844
Ion Ratio Lower Upper
43 100
61 17.2 18.6 27.8#
87 10.8 9.4 14.2



#44
Trichloroethene
Concen: 4.681 ug/l
RT: 9.151 min Scan# 1235
Delta R.T. -0.000 min
Lab File: VN074397.D
Acq: 10 Sep 2022 01:02

Tgt Ion:130 Resp: 19830
Ion Ratio Lower Upper
130 100
95 98.8 0.0 210.0

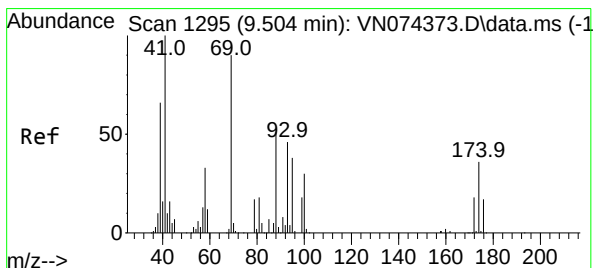
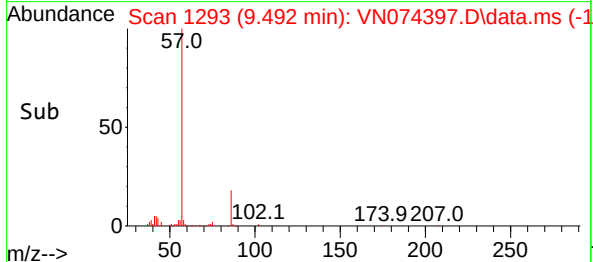
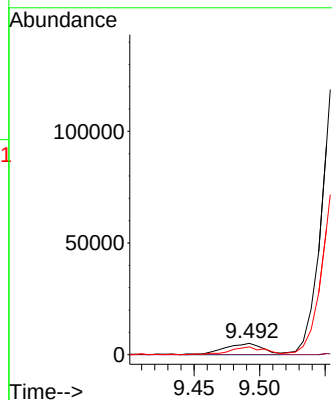
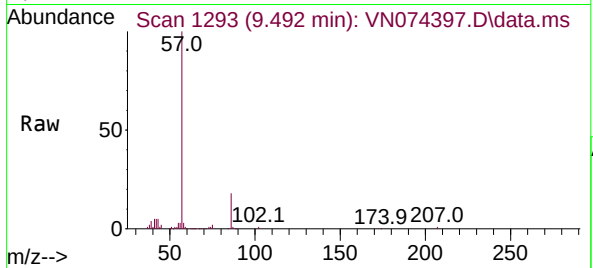




#48
Methyl methacrylate
Concen: 1.608 ug/l
RT: 9.492 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN074397.D
Acq: 10 Sep 2022 01:02

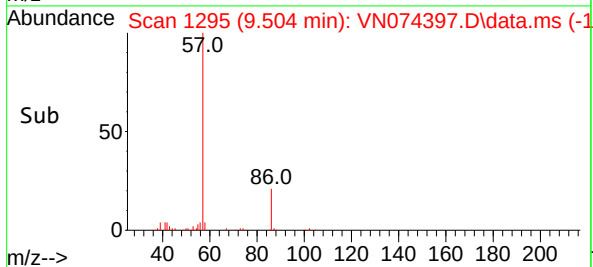
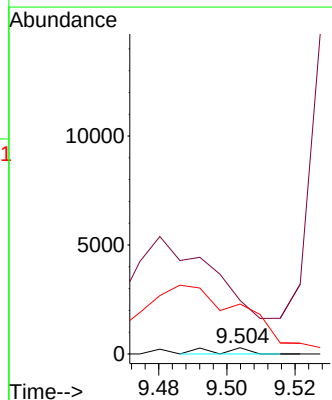
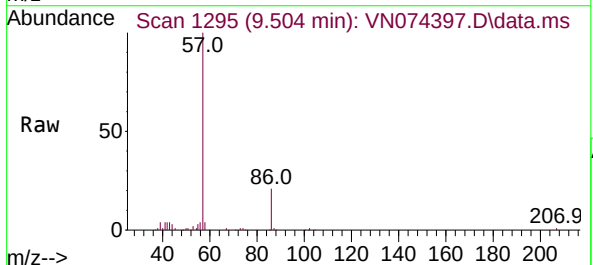
Instrument :
MSVOA_N
ClientSampleId :
S1-SO_PW001-20220902

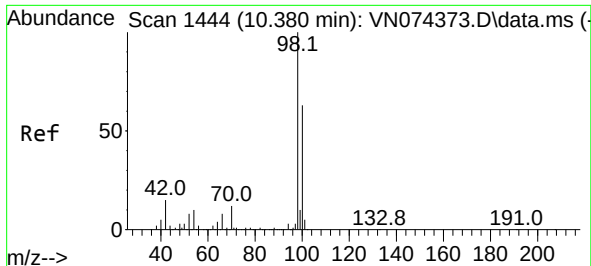
Tgt Ion: 41 Resp: 10379
Ion Ratio Lower Upper
41 100
69 0.0 67.6 101.4#
39 62.2 58.2 87.4



#49
1,4-Dioxane
Concen: 1.463 ug/l
RT: 9.504 min Scan# 1295
Delta R.T. -0.000 min
Lab File: VN074397.D
Acq: 10 Sep 2022 01:02

Tgt Ion: 88 Resp: 199
Ion Ratio Lower Upper
88 100
43 0.0 26.9 40.3#
58 0.0 52.7 79.1#

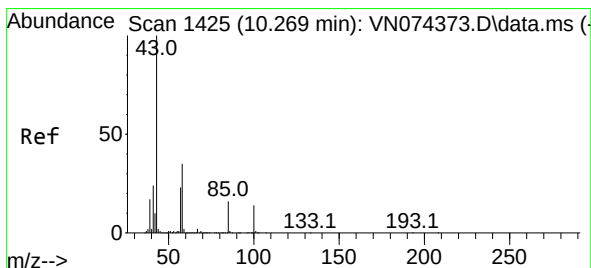
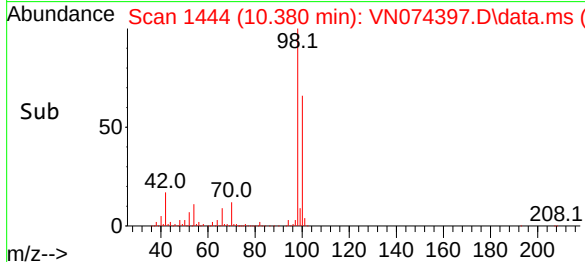
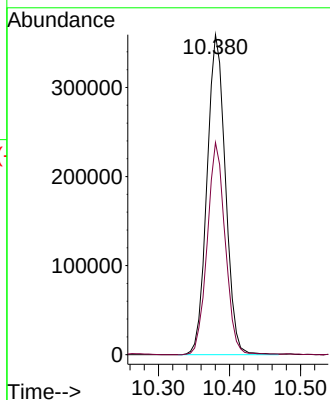
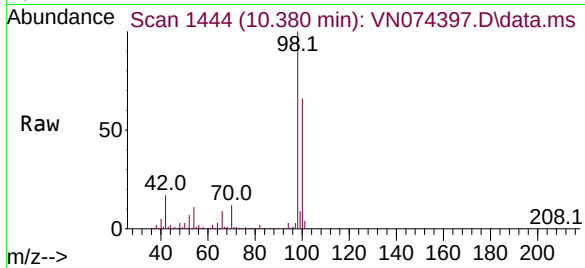




#50
Toluene-d8
Concen: 44.274 ug/l
RT: 10.380 min Scan# 1444
Delta R.T. -0.000 min
Lab File: VN074397.D
Acq: 10 Sep 2022 01:02

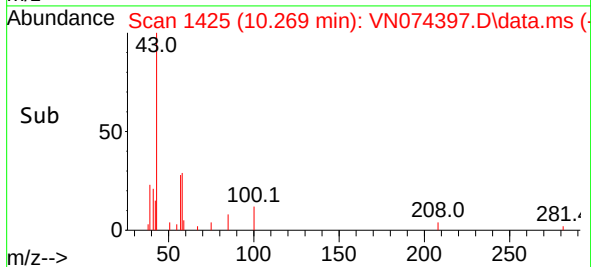
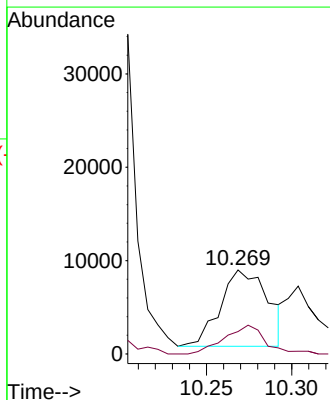
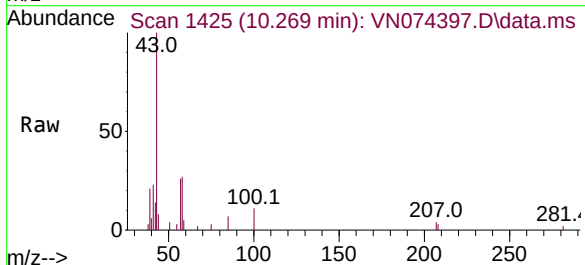
Instrument :
MSVOA_N
ClientSampleId :
S1-SO_PW001-20220902

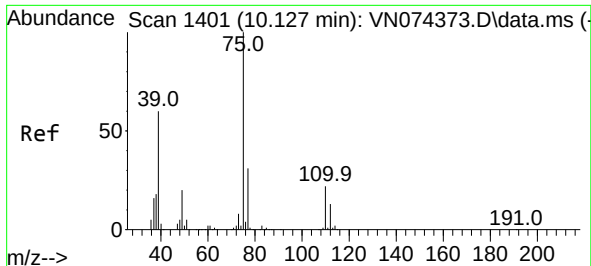
Tgt Ion: 98 Resp: 646311
Ion Ratio Lower Upper
98 100
100 64.7 50.6 76.0



#51
4-Methyl-2-Pentanone
Concen: 1.666 ug/l
RT: 10.269 min Scan# 1425
Delta R.T. -0.000 min
Lab File: VN074397.D
Acq: 10 Sep 2022 01:02

Tgt Ion: 43 Resp: 15949
Ion Ratio Lower Upper
43 100
58 32.4 29.0 43.6

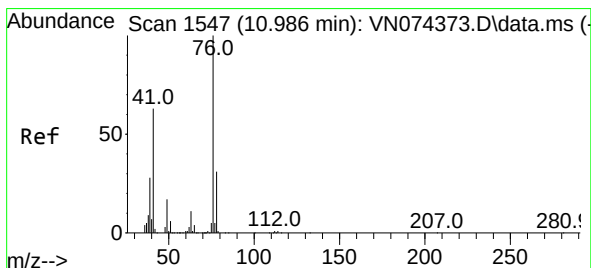
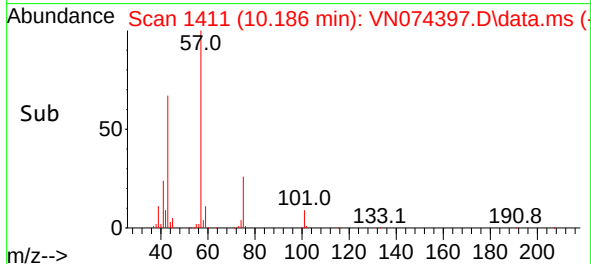
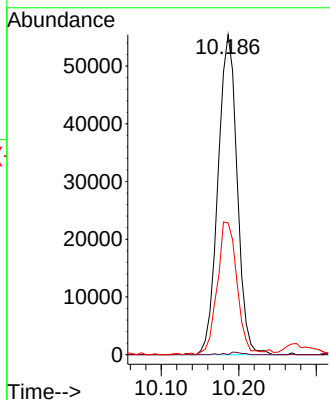
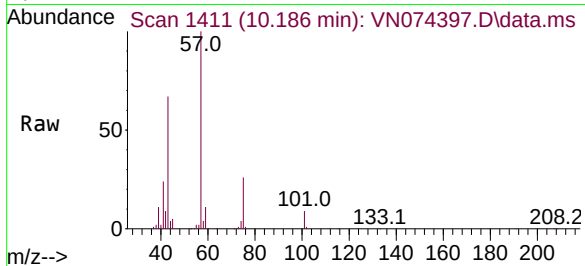




#54
 cis-1,3-Dichloropropene
 Concen: 11.850 ug/l
 RT: 10.186 min Scan# 1401
 Delta R.T. 0.059 min
 Lab File: VN074397.D
 Acq: 10 Sep 2022 01:02

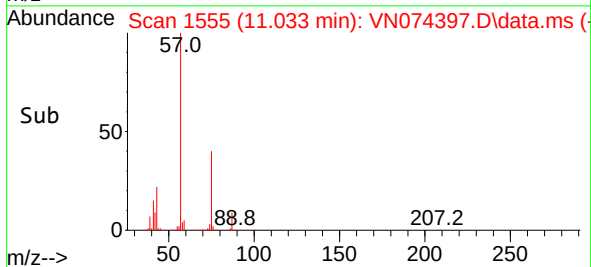
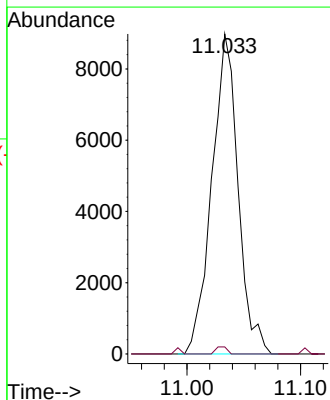
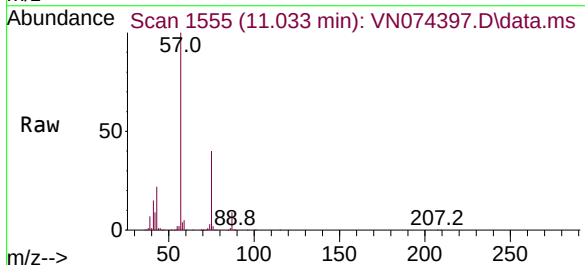
Instrument :
 MSVOA_N
 ClientSampleId :
 S1-SO_PW001-20220902

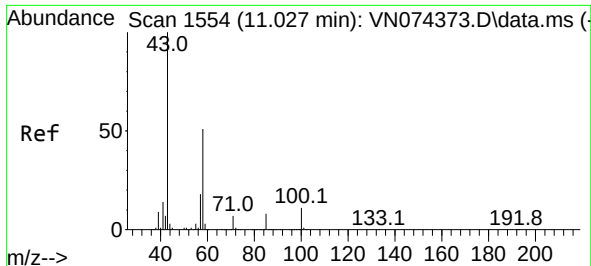
Tgt Ion: 75 Resp: 95411
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.5 36.7#
 39 40.9 48.0 72.0#



#57
 1,3-Dichloropropane
 Concen: 1.711 ug/l
 RT: 11.033 min Scan# 1555
 Delta R.T. 0.047 min
 Lab File: VN074397.D
 Acq: 10 Sep 2022 01:02

Tgt Ion: 76 Resp: 14404
 Ion Ratio Lower Upper
 76 100
 78 1.0 25.0 37.4#

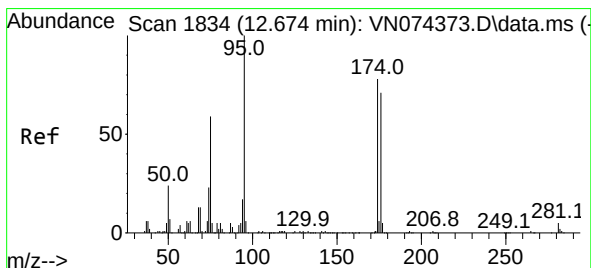
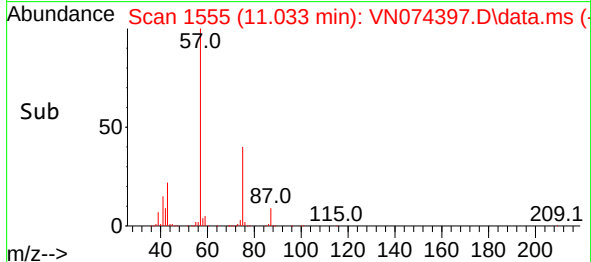
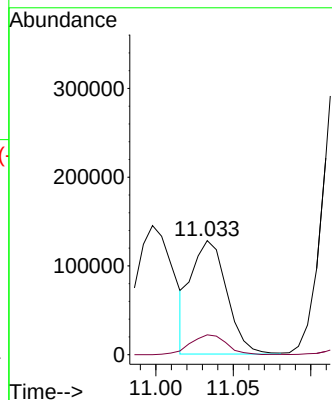
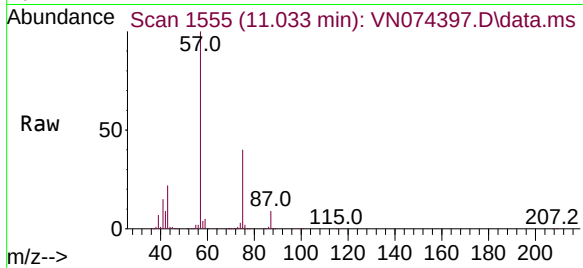




#59
2-Hexanone
Concen: 27.476 ug/l
RT: 11.033 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN074397.D
Acq: 10 Sep 2022 01:02

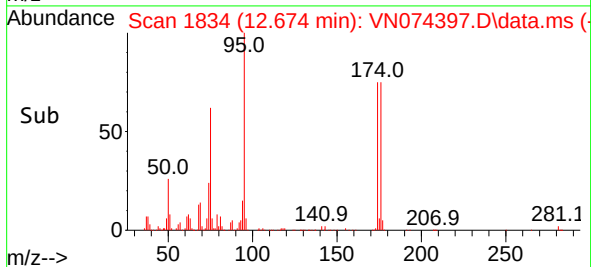
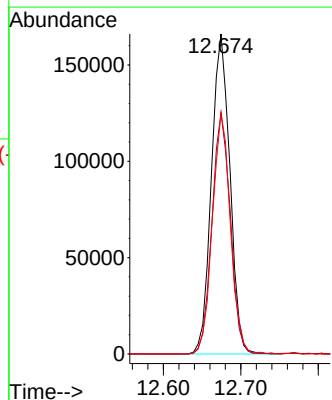
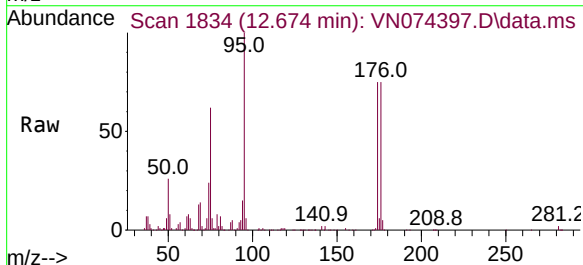
Instrument :
MSVOA_N
ClientSampleId :
S1-SO_PW001-20220902

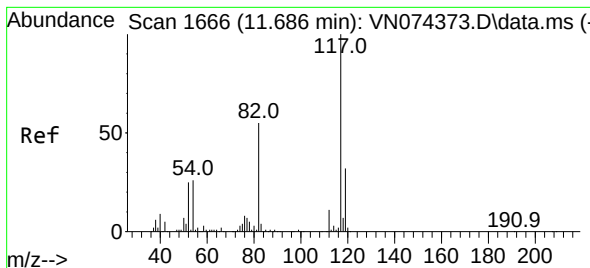
Tgt Ion: 43 Resp: 203034
Ion Ratio Lower Upper
43 100
58 18.0 25.8 77.3#



#62
4-Bromofluorobenzene
Concen: 51.793 ug/l
RT: 12.674 min Scan# 1834
Delta R.T. -0.000 min
Lab File: VN074397.D
Acq: 10 Sep 2022 01:02

Tgt Ion: 95 Resp: 274501
Ion Ratio Lower Upper
95 100
174 75.0 0.0 150.6
176 73.7 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: VN074397.D

Acq: 10 Sep 2022 01:02

Instrument :

MSVOA_N

ClientSampleId :

S1-SO_PW001-20220902

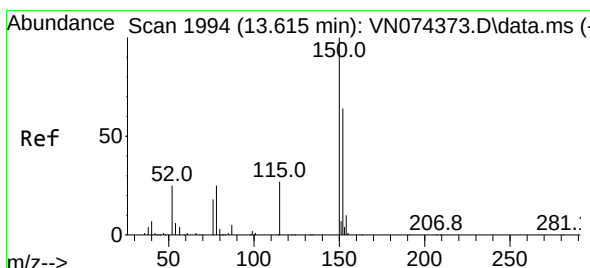
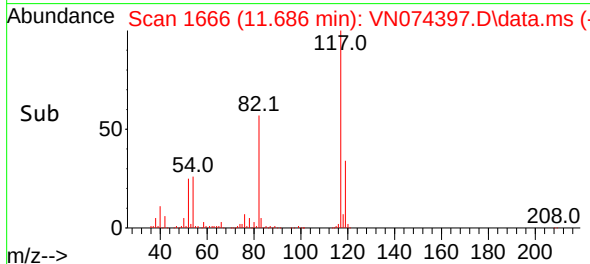
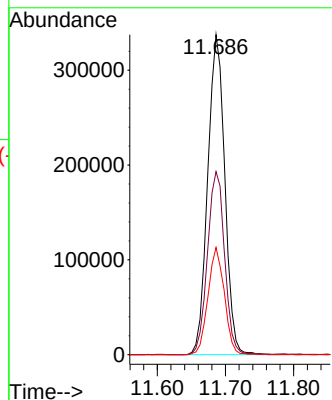
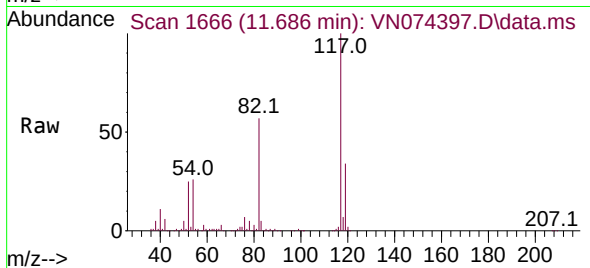
Tgt Ion:117 Resp: 588273

Ion Ratio Lower Upper

117 100

82 57.2 44.3 66.5

119 33.5 25.5 38.3



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.615 min Scan# 1994

Delta R.T. 0.000 min

Lab File: VN074397.D

Acq: 10 Sep 2022 01:02

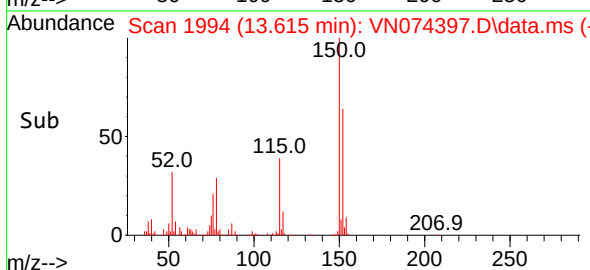
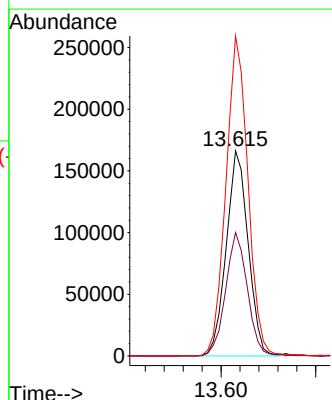
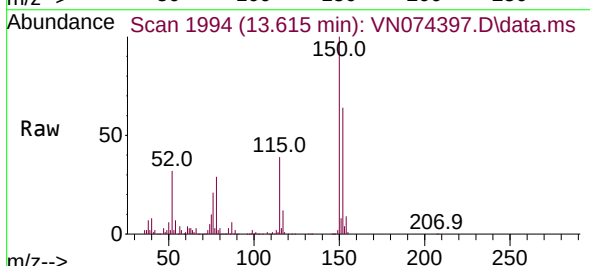
Tgt Ion:152 Resp: 266980

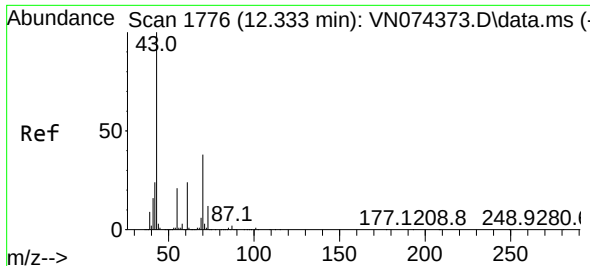
Ion Ratio Lower Upper

152 100

115 59.8 32.0 96.0

150 157.1 0.0 359.6

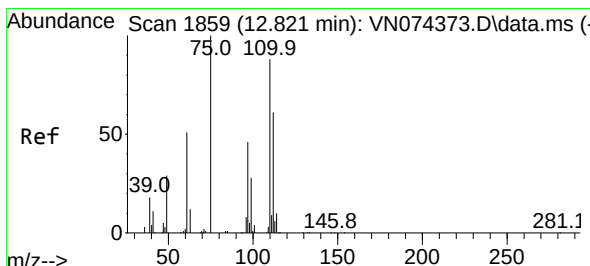
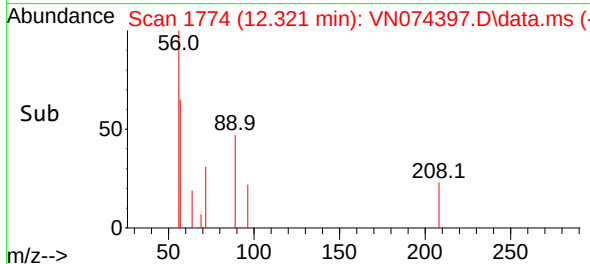
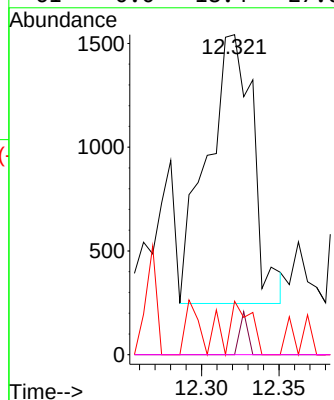
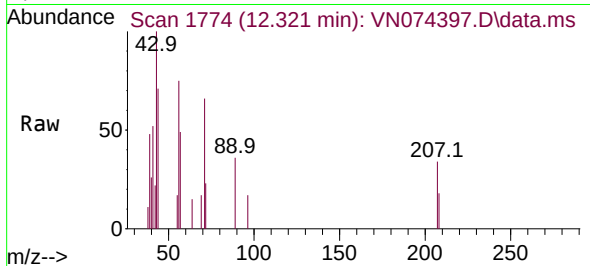




#74
N-amy1 acetate
Concen: Below Cal
RT: 12.321 min Scan# 11
Delta R.T. -0.012 min
Lab File: VN074397.D
Acq: 10 Sep 2022 01:02

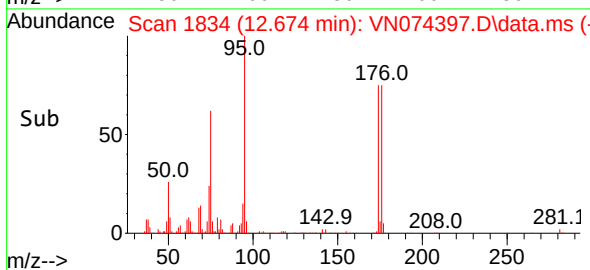
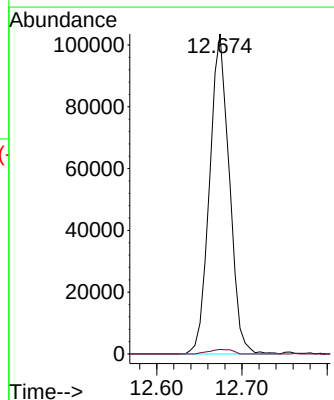
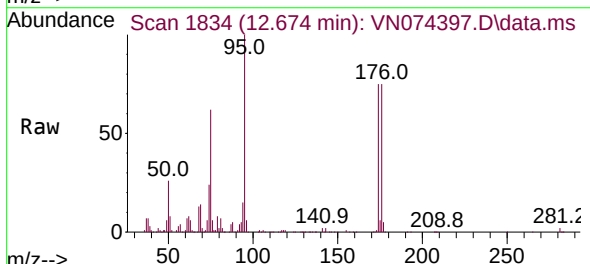
Instrument :
MSVOA_N
ClientSampleId :
S1-SO_PW001-20220902

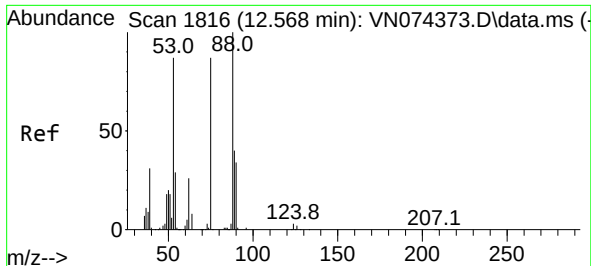
Tgt Ion: 43 Resp: 2680
Ion Ratio Lower Upper
43 100
70 2.7 31.4 47.0#
55 11.3 17.0 25.6#
61 0.0 18.4 27.6#



#76
1,2,3-Trichloropropane
Concen: 23.874 ug/l
RT: 12.674 min Scan# 1834
Delta R.T. -0.147 min
Lab File: VN074397.D
Acq: 10 Sep 2022 01:02

Tgt Ion: 75 Resp: 166626
Ion Ratio Lower Upper
75 100
77 1.7 78.9 236.7#

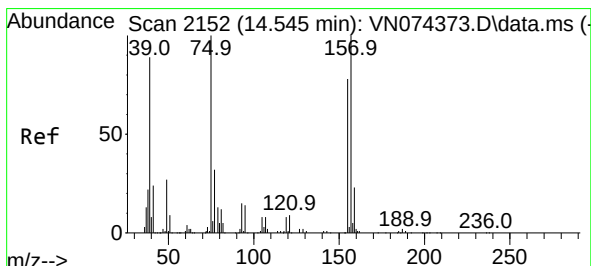
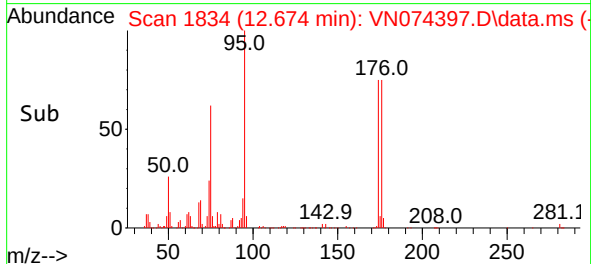
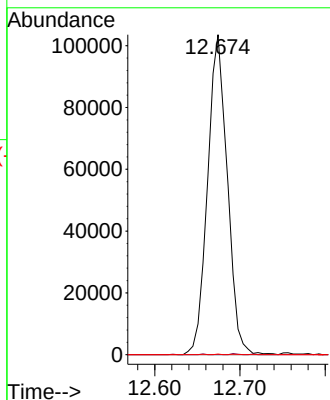
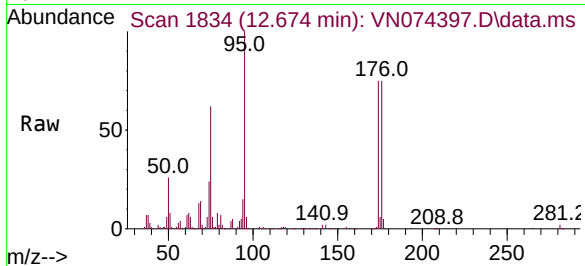




#81
trans-1,4-Dichloro-2-butene
Concen: 53.215 ug/l
RT: 12.674 min Scan# 11
Delta R.T. 0.106 min
Lab File: VN074397.D
Acq: 10 Sep 2022 01:02

Instrument :
MSVOA_N
ClientSampleId :
S1-SO_PW001-20220902

Tgt Ion: 75 Resp: 166626
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: 14.733 min Scan# 2184
Delta R.T. 0.188 min
Lab File: VN074397.D
Acq: 10 Sep 2022 01:02

Tgt Ion: 75 Resp: 185
Ion Ratio Lower Upper
75 100
155 0.0 36.6 109.9#
157 0.0 46.2 138.5#

