

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091522\
 Data File : VX031361.D
 Acq On : 15 Sep 2022 18:09
 Operator : JC/MD
 Sample : N4509-10
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S1-SO_113D-20220902

Quant Time: Sep 16 04:56:12 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091422W.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 15 01:50:07 2022
 Response via : Initial Calibration

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

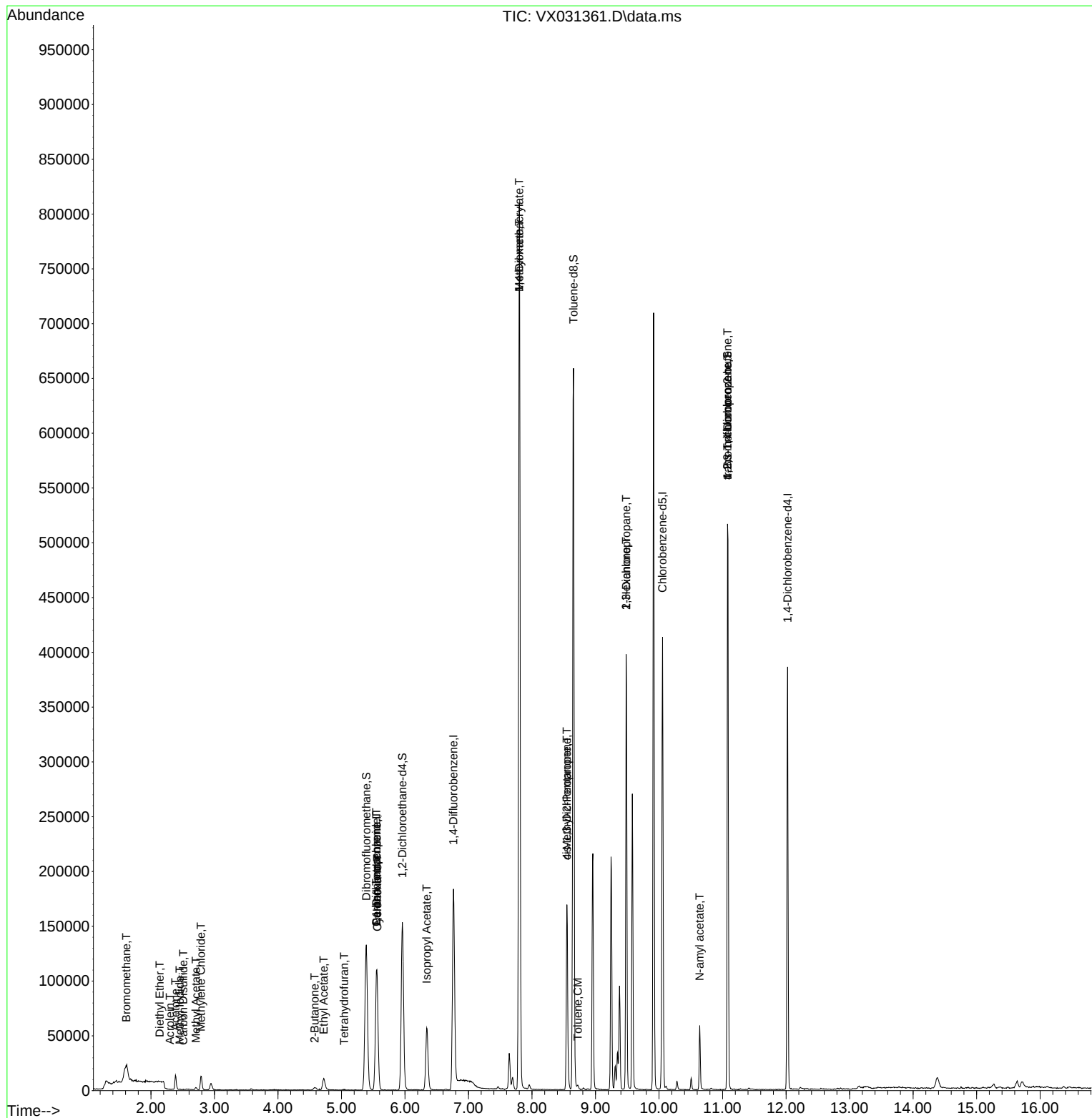
Internal Standards						
1) Pentafluorobenzene	5.556	168	105166	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	176962	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	168686	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	73520	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	137692	53.341	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 106.680%			
35) Dibromofluoromethane	5.391	113	109141	57.376	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 114.760%			
50) Toluene-d8	8.653	98	380743	53.359	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 106.720%			
62) 4-Bromofluorobenzene	11.079	95	123982	47.449	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 94.900%			
Target Compounds					Qvalue	
3) Chloromethane	1.288	50	338	Below Cal		96
5) Bromomethane	1.611	94	1057	0.767 ug/l		90
8) Diethyl Ether	2.136	74	61	0.567 ug/l #		1
10) Methyl Iodide	2.453	142	307	1.086 ug/l #		80
11) Tert butyl alcohol	2.946	59	3615	Below Cal #		76
13) Acrolein	2.300	56	64	0.215 ug/l #		15
16) Acetone	2.386	43	13243	12.017 ug/l		98
17) Carbon Disulfide	2.508	76	208	0.938 ug/l #		75
18) Methyl Acetate	2.709	43	2962	0.906 ug/l		98
20) Methylene Chloride	2.788	84	5718	0.967 ug/l		89
21) trans-1,2-Dichloroethene	3.093	96	91	Below Cal #		1
25) 2-Butanone	4.574	43	2823	1.553 ug/l #		86
29) Tetrahydrofuran	5.044	42	533	0.473 ug/l #		32
31) Cyclohexane	5.562	56	2775	1.001 ug/l #		51
36) 1,1-Dichloropropene	5.550	75	8824	3.389 ug/l #		50
37) Ethyl Acetate	4.721	43	17787	5.199 ug/l		98
38) Carbon Tetrachloride	5.550	117	10772	3.806 ug/l #		16
43) Isopropyl Acetate	6.342	43	78461	13.434 ug/l		99
48) Methyl methacrylate	7.799	41	70141	26.382 ug/l #		46
49) 1,4-Dioxane	7.799	88	93	1.744 ug/l #		1
51) 4-Methyl-2-Pentanone	8.549	43	59175	16.669 ug/l #		51
52) Toluene	8.720	92	957	0.202 ug/l		87
54) cis-1,3-Dichloropropene	8.549	75	26355	7.548 ug/l #		63
57) 1,3-Dichloropropane	9.482	76	3420	0.953 ug/l #		43
59) 2-Hexanone	9.482	43	44580	16.454 ug/l #		53
74) N-amyl acetate	10.640	43	14611	5.412 ug/l #		53
76) 1,2,3-Trichloropropane	11.079	75	71104	38.378 ug/l #		37
81) trans-1,4-Dichloro-2-b...	11.079	75	71104	106.194 ug/l #		11

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

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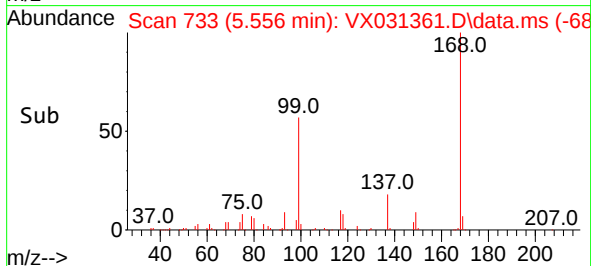
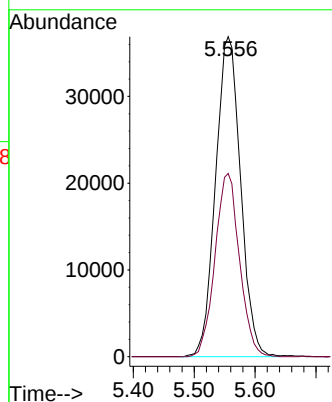
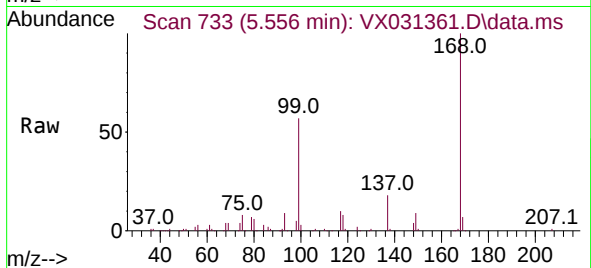




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX031361.D
Acq: 15 Sep 2022 18:09

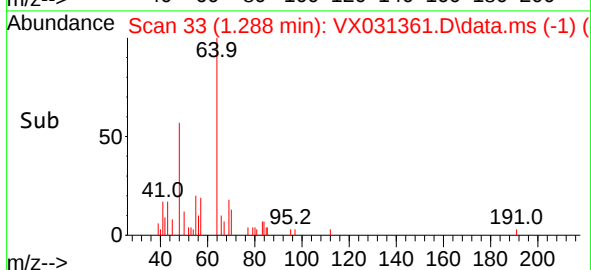
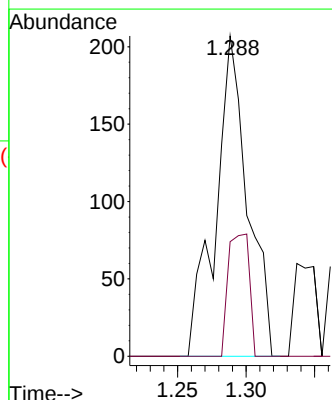
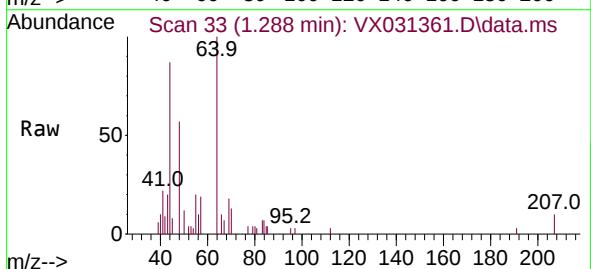
Instrument :
MSVOA_X
ClientSampleId :
S1-SO_113D-20220902

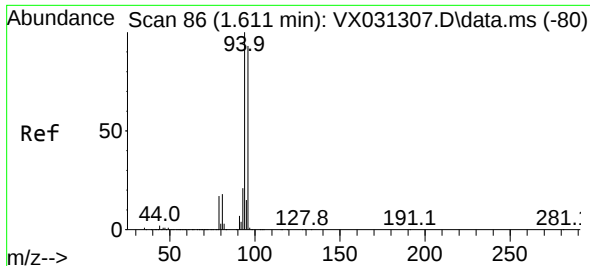
Tgt Ion:168 Resp: 105166
Ion Ratio Lower Upper
168 100
99 57.3 48.8 73.2



#3
Chloromethane
Concen: Below Cal
RT: 1.288 min Scan# 33
Delta R.T. 0.000 min
Lab File: VX031361.D
Acq: 15 Sep 2022 18:09

Tgt Ion: 50 Resp: 338
Ion Ratio Lower Upper
50 100
52 35.7 26.9 40.3

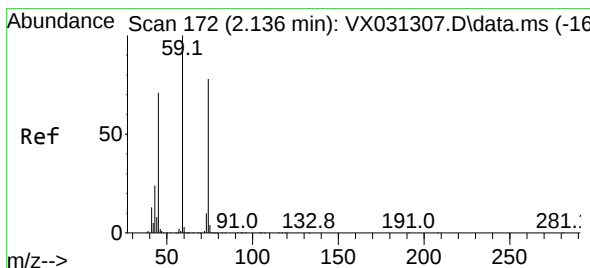
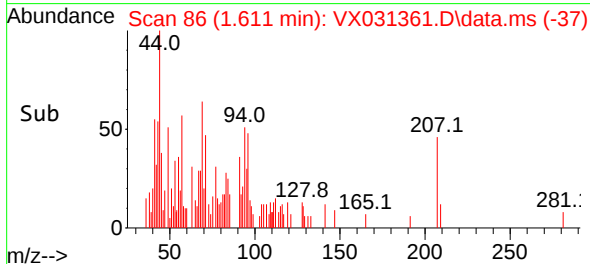
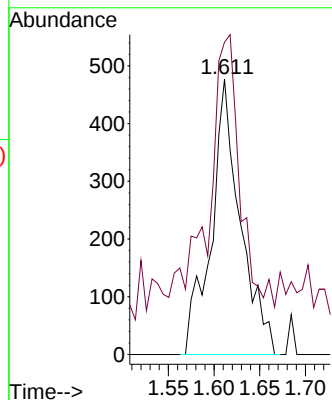
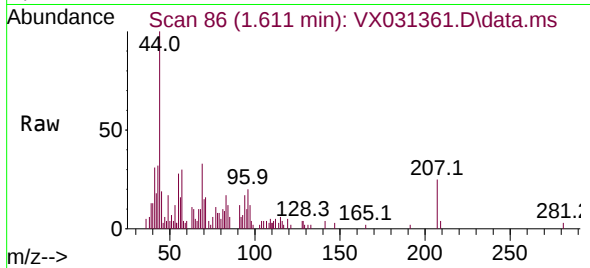




#5
Bromomethane
Concen: 0.767 ug/l
RT: 1.611 min Scan# 86
Delta R.T. 0.000 min
Lab File: VX031361.D
Acq: 15 Sep 2022 18:09

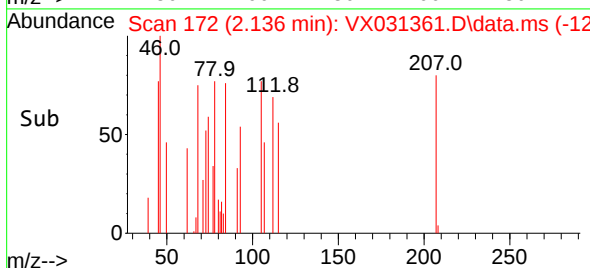
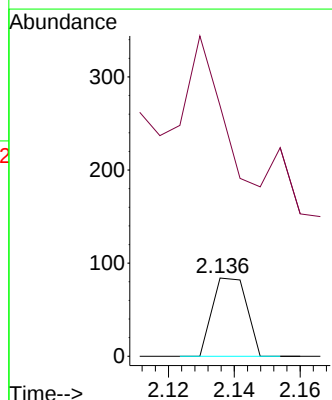
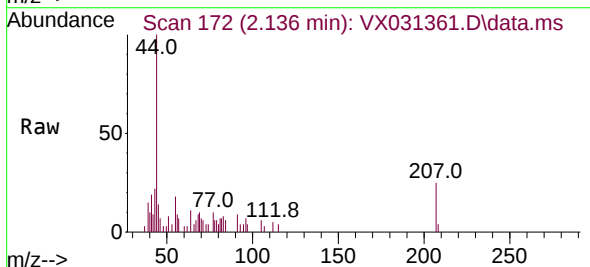
Instrument :
MSVOA_X
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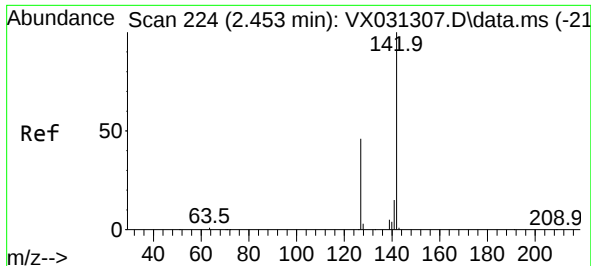
Tgt Ion: 94 Resp: 1057
Ion Ratio Lower Upper
94 100
96 83.4 74.4 111.6



#8
Diethyl Ether
Concen: 0.567 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX031361.D
Acq: 15 Sep 2022 18:09

Tgt Ion: 74 Resp: 61
Ion Ratio Lower Upper
74 100
45 523.0 48.5 145.6#

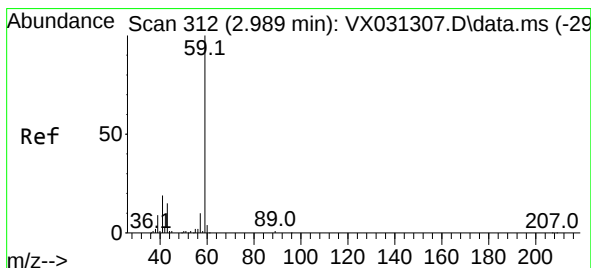
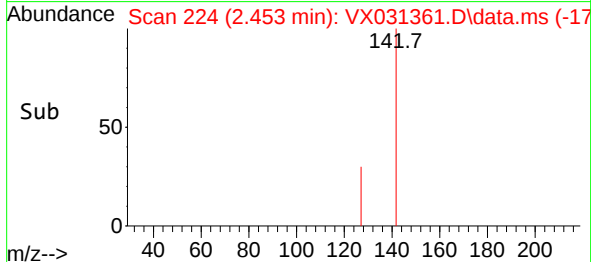
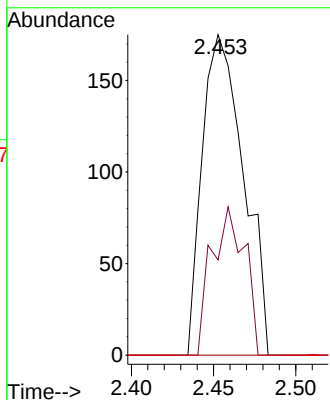
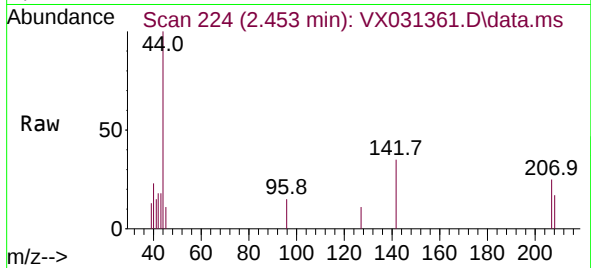




#10
Methyl Iodide
Concen: 1.086 ug/l
RT: 2.453 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX031361.D
Acq: 15 Sep 2022 18:09

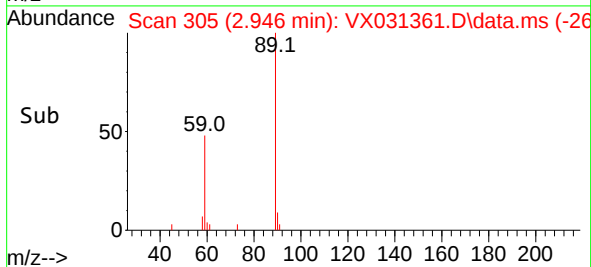
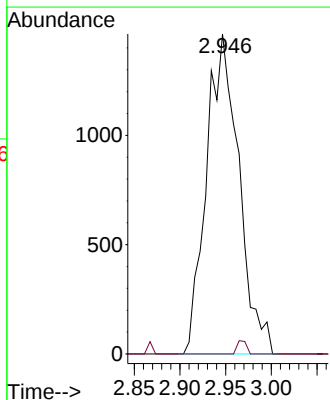
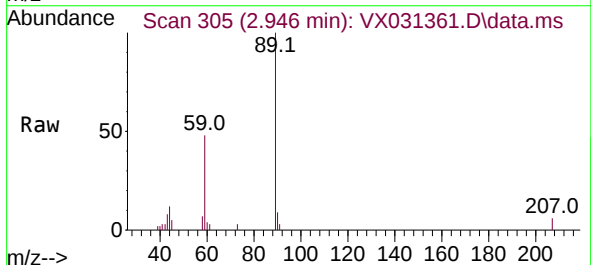
Instrument :
MSVOA_X
ClientSampleId :
S1-SO_113D-20220902

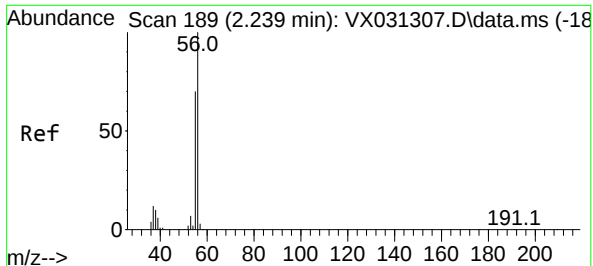
Tgt Ion:142 Resp: 307
Ion Ratio Lower Upper
142 100
127 36.8 37.4 56.0#
141 0.0 11.6 17.4#



#11
Tert butyl alcohol
Concen: Below Cal
RT: 2.946 min Scan# 305
Delta R.T. -0.043 min
Lab File: VX031361.D
Acq: 15 Sep 2022 18:09

Tgt Ion: 59 Resp: 3615
Ion Ratio Lower Upper
59 100
57 1.2 8.2 12.2#

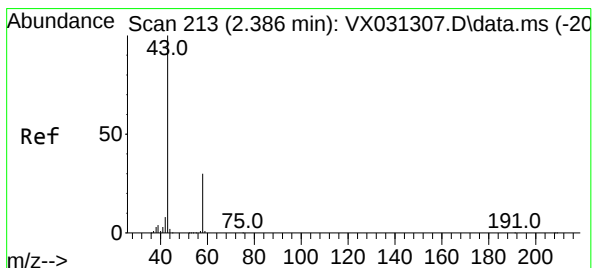
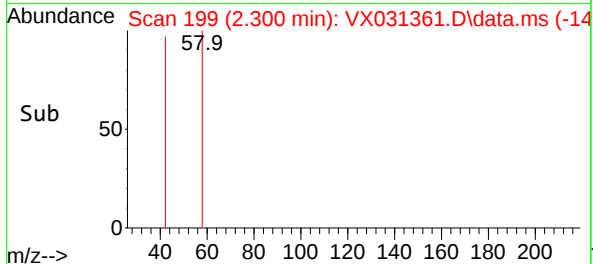
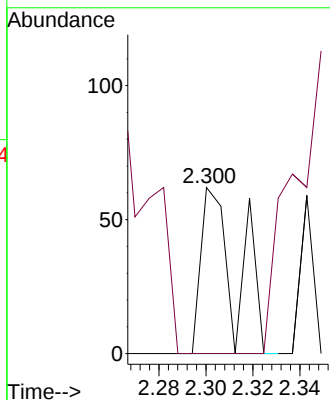
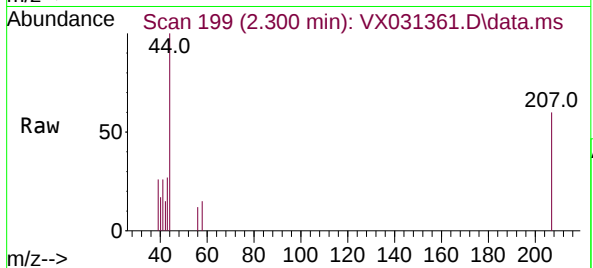




#13
Acrolein
Concen: 0.215 ug/l
RT: 2.300 min Scan# 199
Delta R.T. 0.061 min
Lab File: VX031361.D
Acq: 15 Sep 2022 18:09

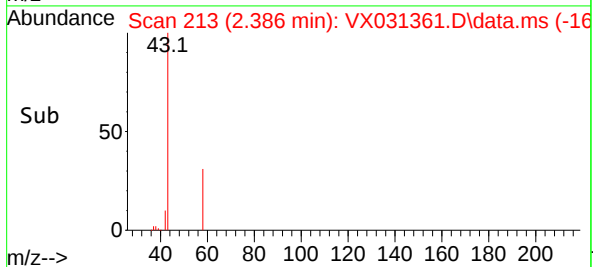
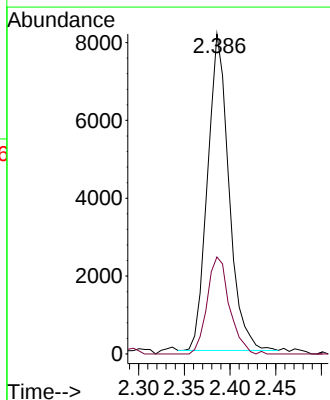
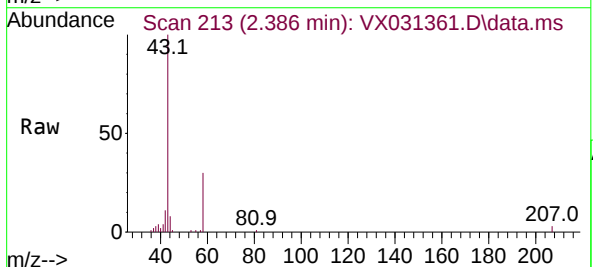
Instrument :
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ClientSampleId :
S1-SO_113D-20220902

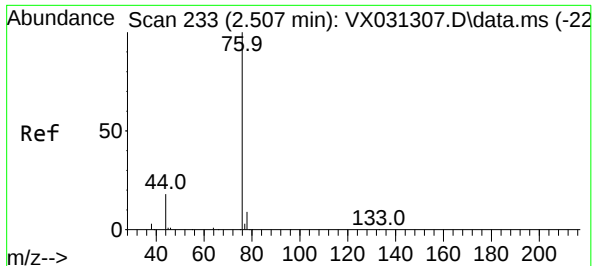
Tgt Ion: 56 Resp: 64
Ion Ratio Lower Upper
56 100
55 0.0 56.0 84.0#



#16
Acetone
Concen: 12.017 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.000 min
Lab File: VX031361.D
Acq: 15 Sep 2022 18:09

Tgt Ion: 43 Resp: 13243
Ion Ratio Lower Upper
43 100
58 30.6 23.8 35.8

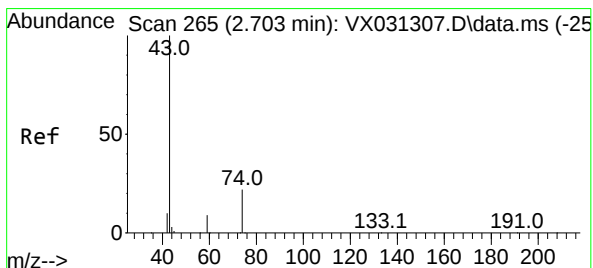
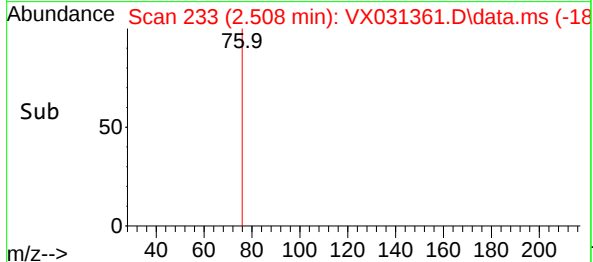
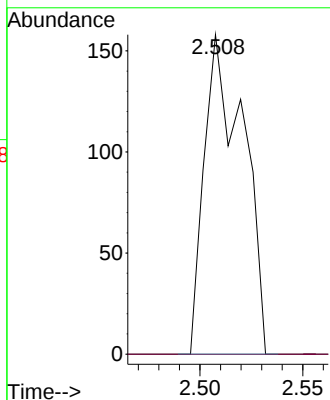
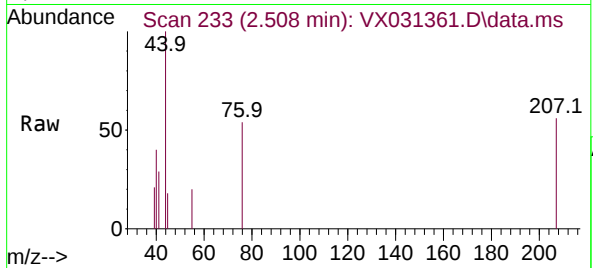




#17
Carbon Disulfide
Concen: 0.938 ug/l
RT: 2.508 min Scan# 21
Delta R.T. 0.001 min
Lab File: VX031361.D
Acq: 15 Sep 2022 18:09

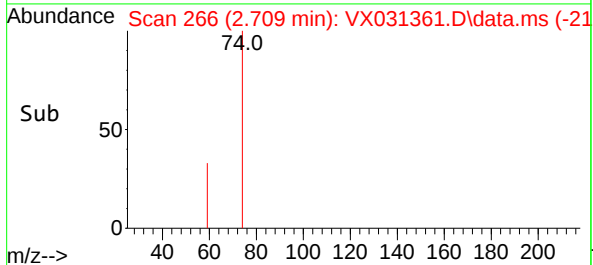
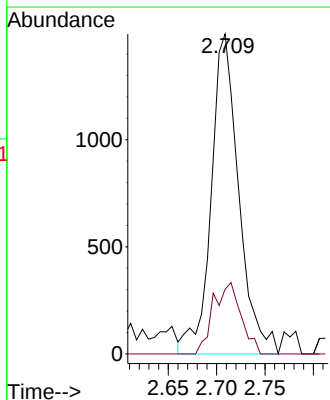
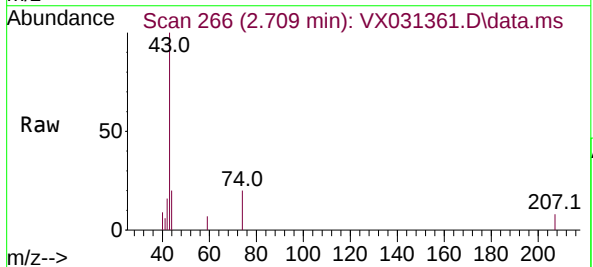
Instrument :
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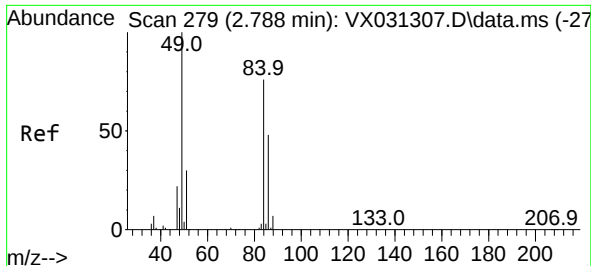
Tgt Ion: 76 Resp: 208
Ion Ratio Lower Upper
76 100
78 0.0 7.2 10.8#



#18
Methyl Acetate
Concen: 0.906 ug/l
RT: 2.709 min Scan# 266
Delta R.T. 0.006 min
Lab File: VX031361.D
Acq: 15 Sep 2022 18:09

Tgt Ion: 43 Resp: 2962
Ion Ratio Lower Upper
43 100
74 22.4 18.6 27.8

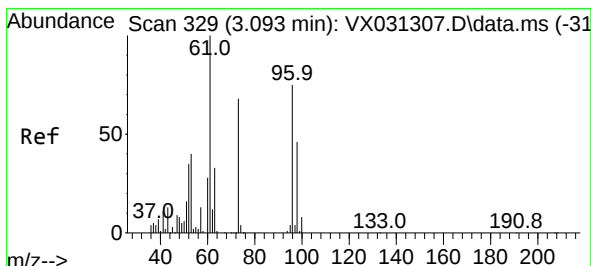
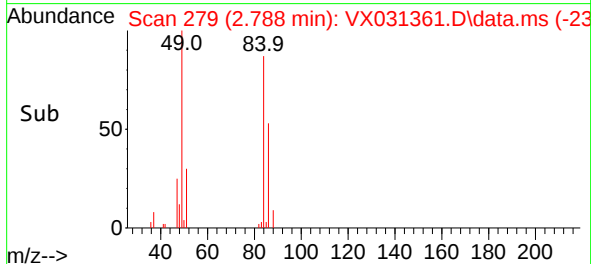
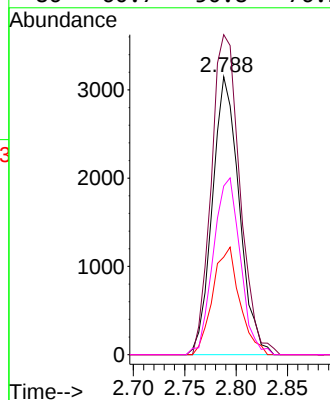
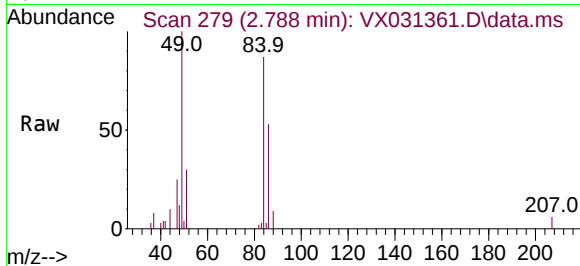




#20
Methylene Chloride
Concen: 0.967 ug/l
RT: 2.788 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX031361.D
Acq: 15 Sep 2022 18:09

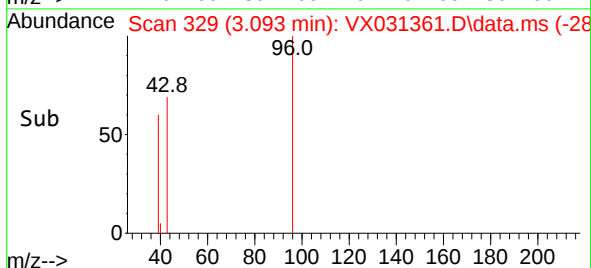
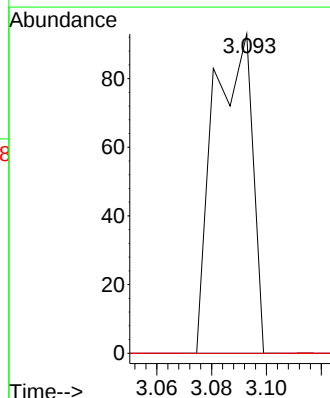
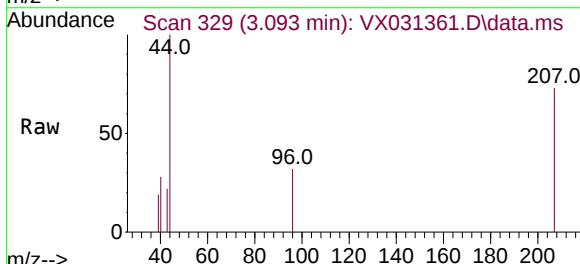
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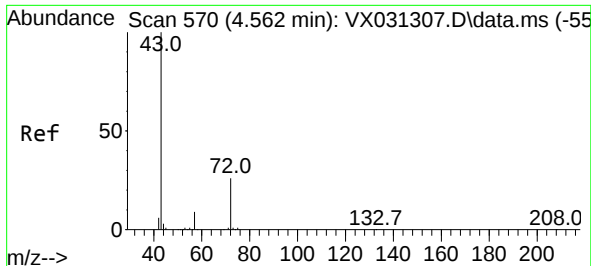
Tgt Ion:	84	Resp:	5718
Ion	Ratio	Lower	Upper
84	100		
49	115.1	105.9	158.9
51	35.1	32.2	48.2
86	60.7	50.8	76.2



#21
trans-1,2-Dichloroethene
Concen: Below Cal
RT: 3.093 min Scan# 329
Delta R.T. -0.000 min
Lab File: VX031361.D
Acq: 15 Sep 2022 18:09

Tgt Ion:	96	Resp:	91
Ion	Ratio	Lower	Upper
96	100		
61	0.0	106.7	160.1#
98	0.0	48.7	73.1#

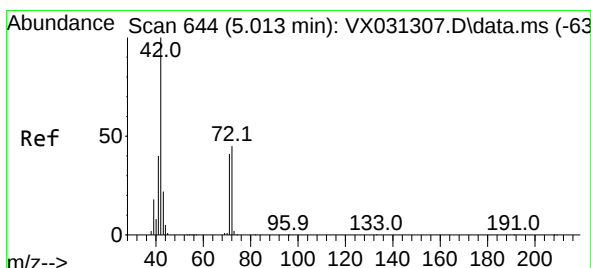
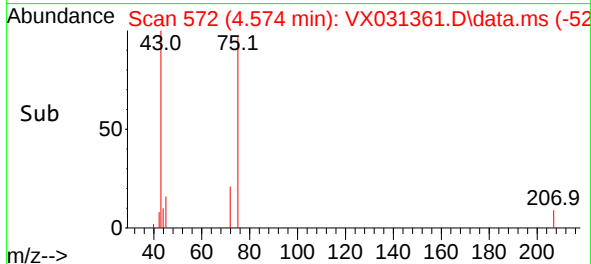
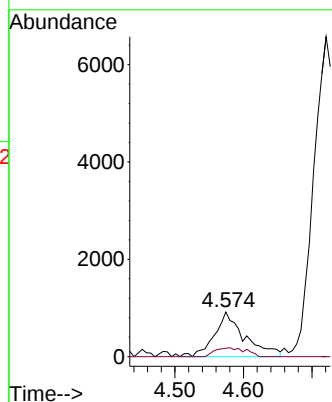
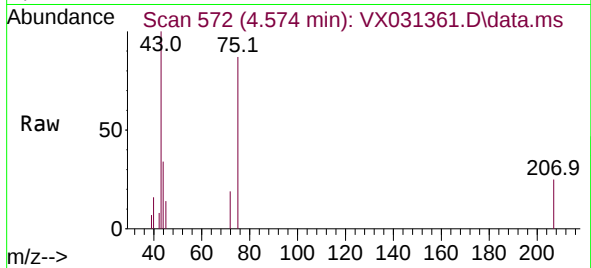




#25
2-Butanone
Concen: 1.553 ug/l
RT: 4.574 min Scan# 51
Delta R.T. 0.012 min
Lab File: VX031361.D
Acq: 15 Sep 2022 18:09

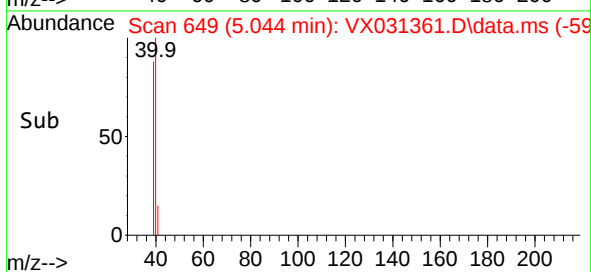
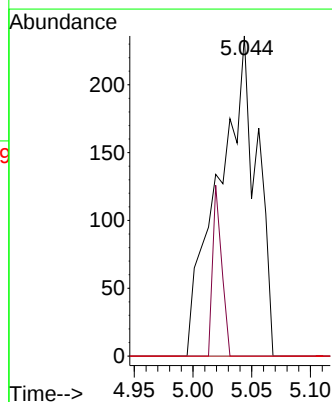
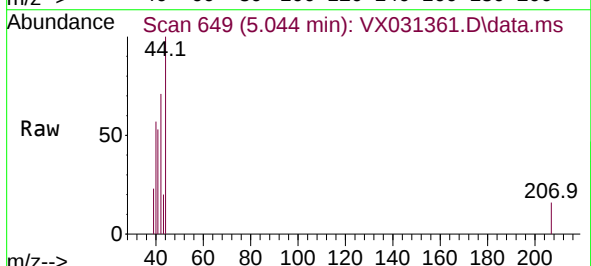
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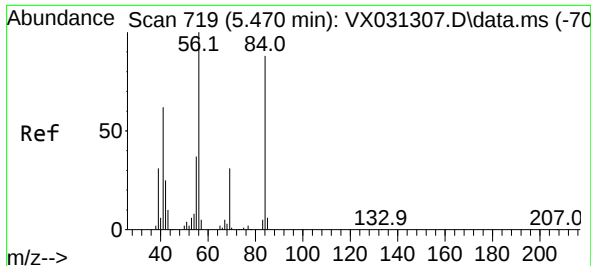
Tgt Ion: 43 Resp: 2823
Ion Ratio Lower Upper
43 100
72 19.2 21.1 31.7#



#29
Tetrahydrofuran
Concen: 0.473 ug/l
RT: 5.044 min Scan# 649
Delta R.T. 0.031 min
Lab File: VX031361.D
Acq: 15 Sep 2022 18:09

Tgt Ion: 42 Resp: 533
Ion Ratio Lower Upper
42 100
72 0.0 36.4 54.6#
71 0.0 33.5 50.3#

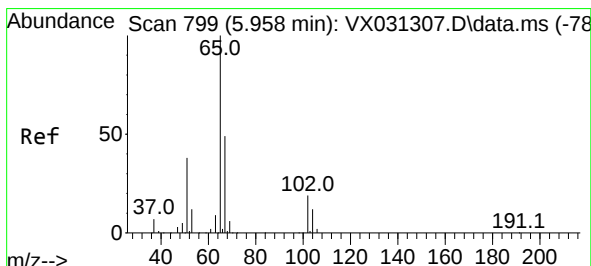
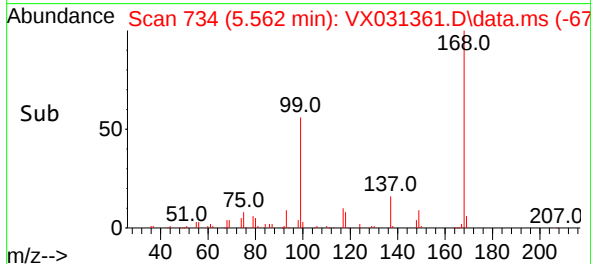
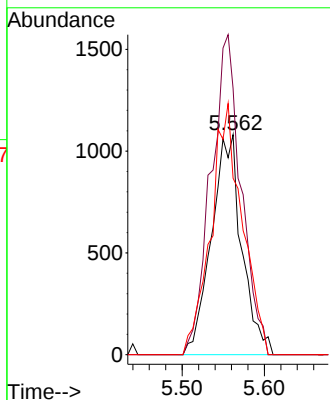
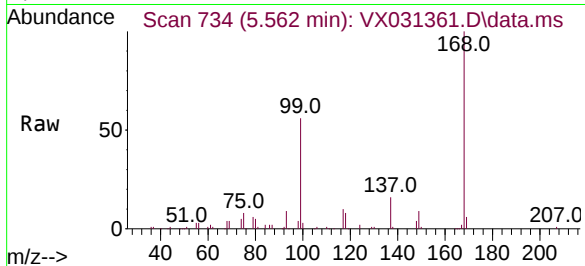




#31
Cyclohexane
Concen: 1.001 ug/l
RT: 5.562 min Scan# 719
Delta R.T. 0.091 min
Lab File: VX031361.D
Acq: 15 Sep 2022 18:09

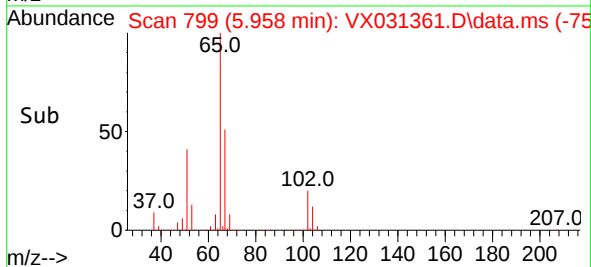
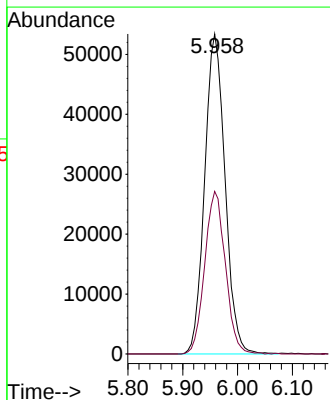
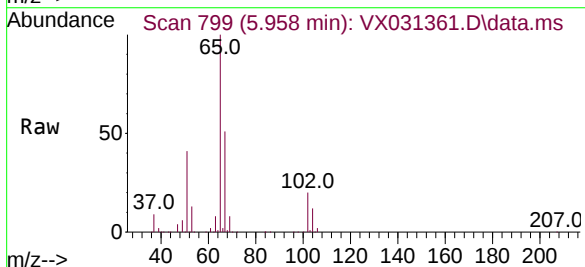
Instrument :
MSVOA_X
ClientSampleId :
S1-SO_113D-20220902

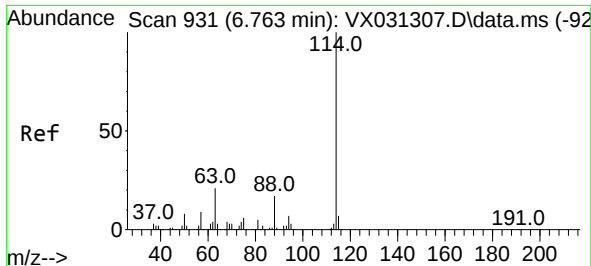
Tgt Ion: 56 Resp: 2775
Ion Ratio Lower Upper
56 100
69 121.0 25.1 37.7#
84 80.2 70.2 105.4



#33
1,2-Dichloroethane-d4
Concen: 53.341 ug/l
RT: 5.958 min Scan# 799
Delta R.T. 0.000 min
Lab File: VX031361.D
Acq: 15 Sep 2022 18:09

Tgt Ion: 65 Resp: 137692
Ion Ratio Lower Upper
65 100
67 51.5 0.0 102.4

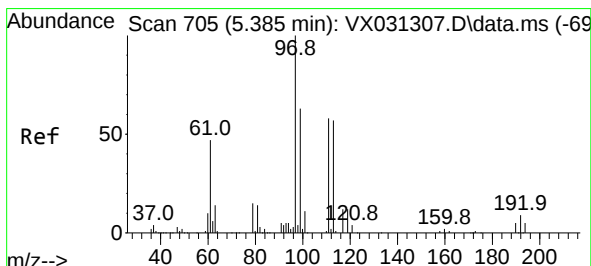
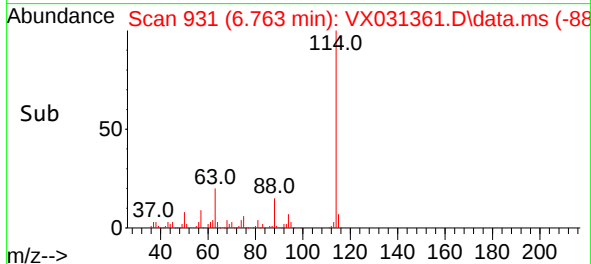
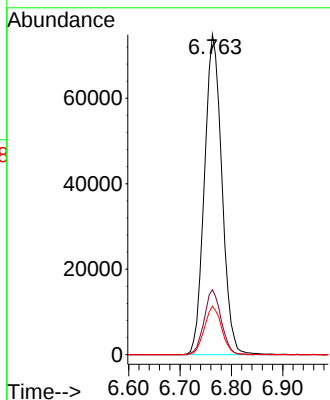
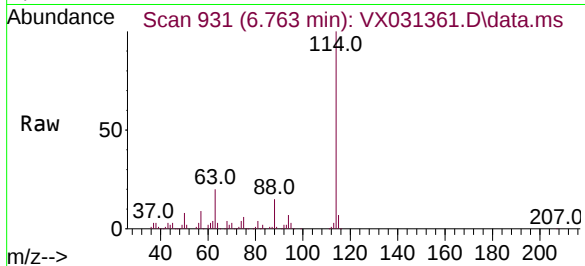




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 91
Delta R.T. 0.000 min
Lab File: VX031361.D
Acq: 15 Sep 2022 18:09

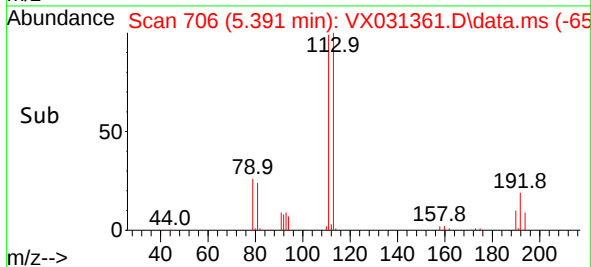
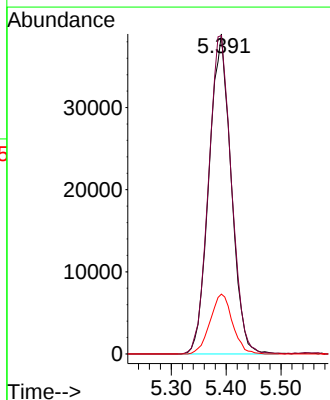
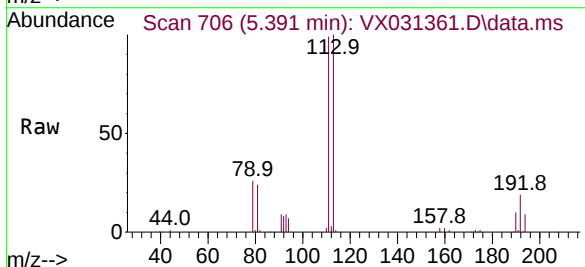
Instrument :
MSVOA_X
ClientSampleId :
S1-SO_113D-20220902

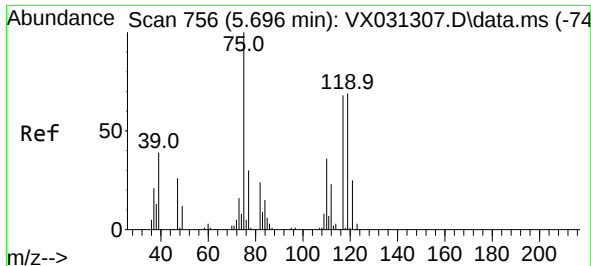
Tgt Ion:114 Resp: 176962
Ion Ratio Lower Upper
114 100
63 20.3 0.0 42.6
88 15.2 0.0 33.0



#35
Dibromofluoromethane
Concen: 57.376 ug/l
RT: 5.391 min Scan# 706
Delta R.T. 0.006 min
Lab File: VX031361.D
Acq: 15 Sep 2022 18:09

Tgt Ion:113 Resp: 109141
Ion Ratio Lower Upper
113 100
111 102.5 82.4 123.6
192 18.9 14.1 21.1

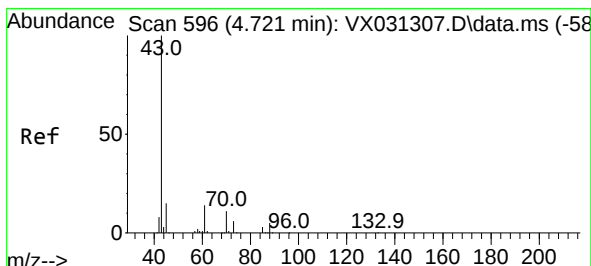
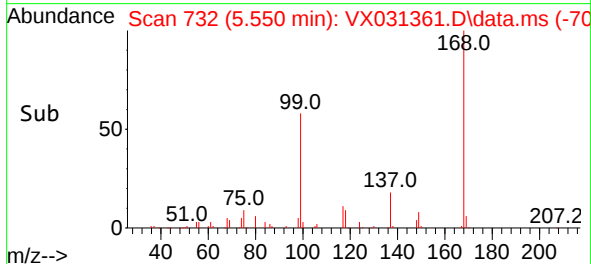
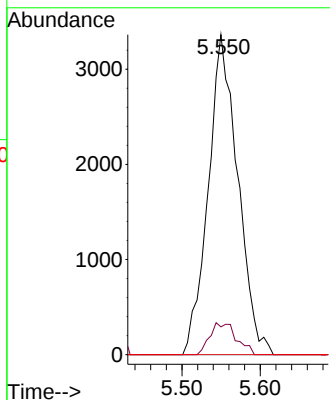
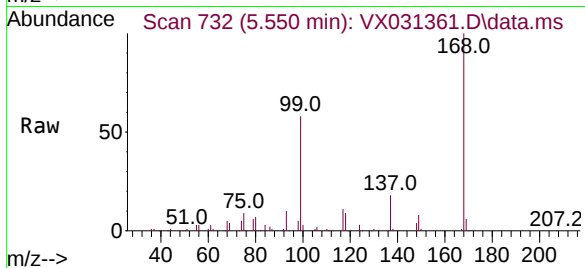




#36
1,1-Dichloropropene
Concen: 3.389 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.146 min
Lab File: VX031361.D
Acq: 15 Sep 2022 18:09

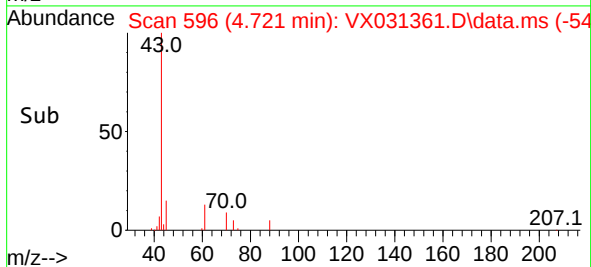
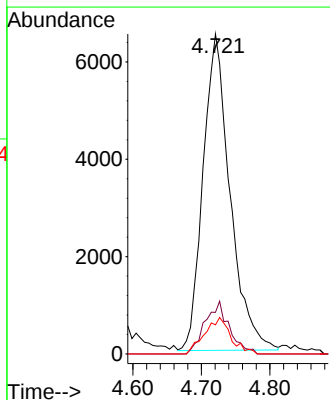
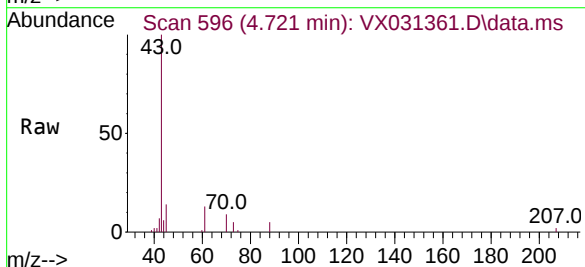
Instrument :
MSVOA_X
ClientSampleId :
S1-SO_113D-20220902

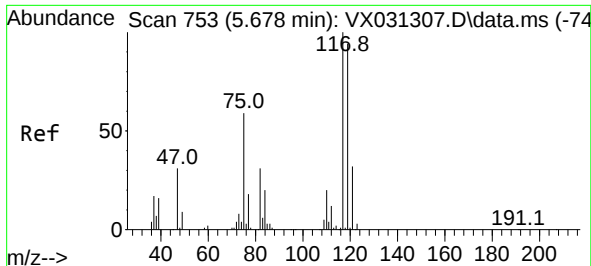
Tgt Ion: 75 Resp: 8824
Ion Ratio Lower Upper
75 100
110 8.9 17.5 52.5#
77 0.0 24.9 37.3#



#37
Ethyl Acetate
Concen: 5.199 ug/l
RT: 4.721 min Scan# 596
Delta R.T. 0.000 min
Lab File: VX031361.D
Acq: 15 Sep 2022 18:09

Tgt Ion: 43 Resp: 17787
Ion Ratio Lower Upper
43 100
61 14.9 11.1 16.7
70 11.2 8.6 13.0

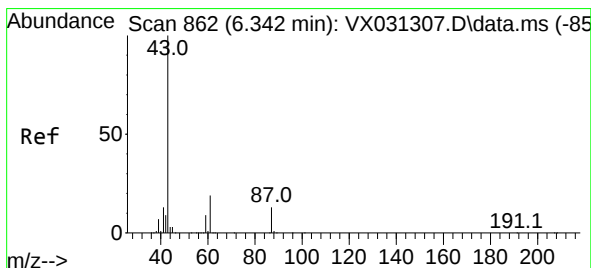
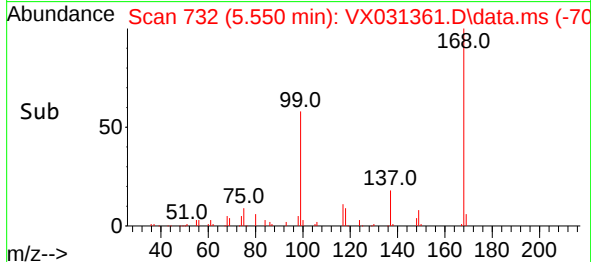
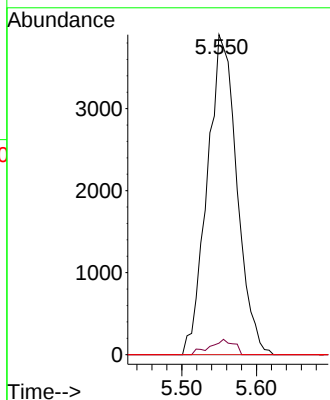
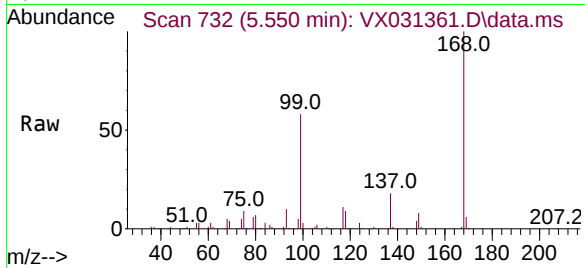




#38
Carbon Tetrachloride
Concen: 3.806 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.128 min
Lab File: VX031361.D
Acq: 15 Sep 2022 18:09

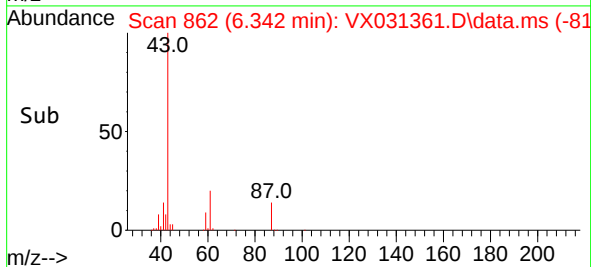
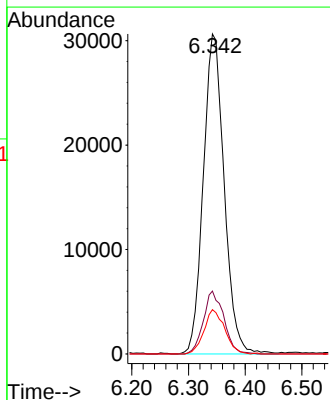
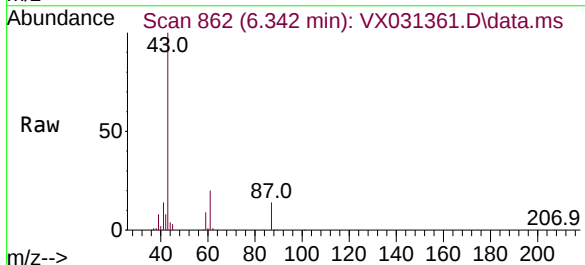
Instrument :
MSVOA_X
ClientSampleId :
S1-SO_113D-20220902

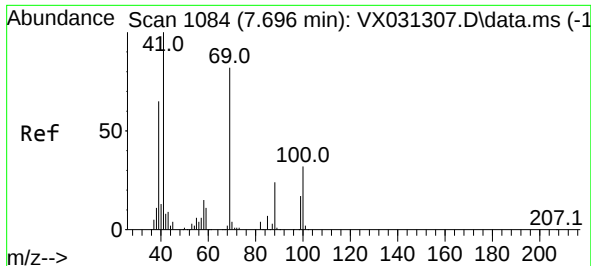
Tgt Ion:117 Resp: 10772
Ion Ratio Lower Upper
117 100
119 3.6 74.6 112.0#
121 0.0 25.3 37.9#



#43
Isopropyl Acetate
Concen: 13.434 ug/l
RT: 6.342 min Scan# 862
Delta R.T. 0.000 min
Lab File: VX031361.D
Acq: 15 Sep 2022 18:09

Tgt Ion: 43 Resp: 78461
Ion Ratio Lower Upper
43 100
61 19.2 15.3 22.9
87 13.7 10.6 15.8

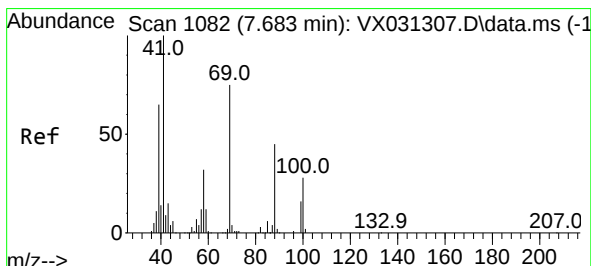
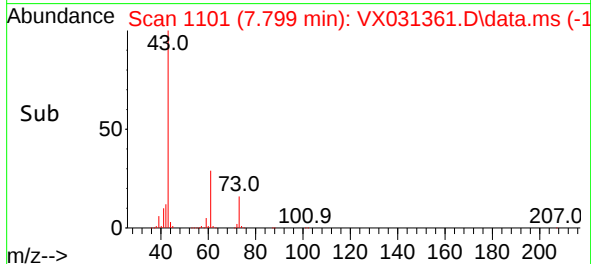
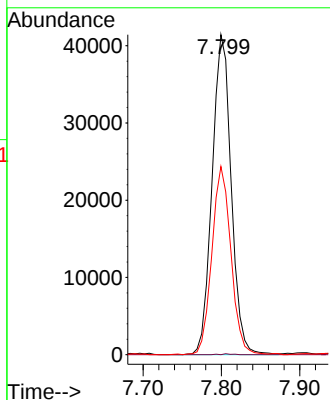
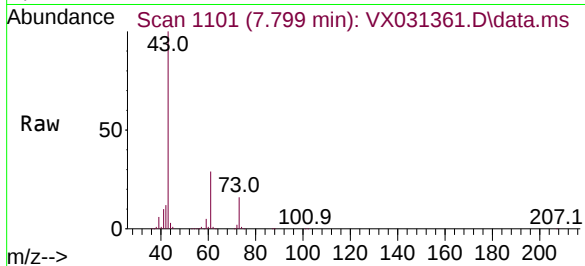




#48
Methyl methacrylate
Concen: 26.382 ug/l
RT: 7.799 min Scan# 1101
Delta R.T. 0.104 min
Lab File: VX031361.D
Acq: 15 Sep 2022 18:09

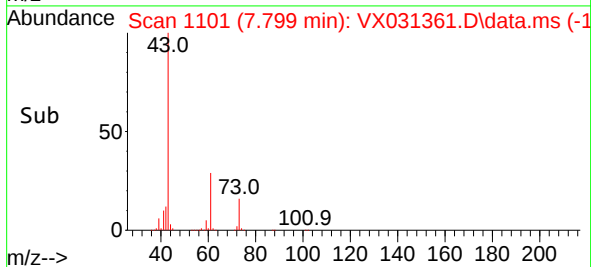
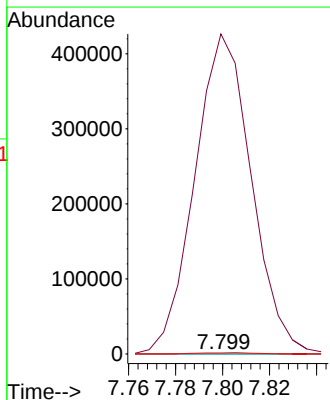
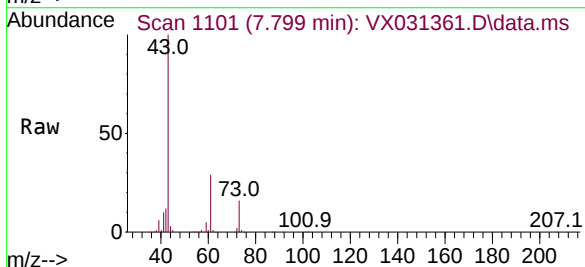
Instrument :
MSVOA_X
ClientSampleId :
S1-SO_113D-20220902

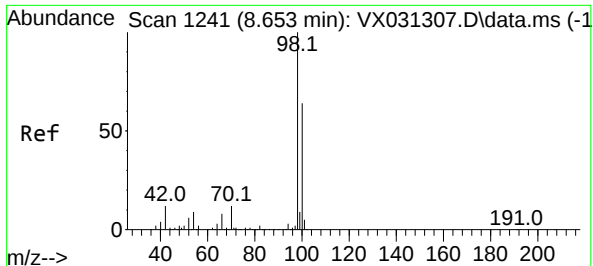
Tgt Ion: 41 Resp: 70141
Ion Ratio Lower Upper
41 100
69 0.2 64.6 96.8#
39 58.7 51.4 77.0



#49
1,4-Dioxane
Concen: 1.744 ug/l
RT: 7.799 min Scan# 1101
Delta R.T. 0.116 min
Lab File: VX031361.D
Acq: 15 Sep 2022 18:09

Tgt Ion: 88 Resp: 93
Ion Ratio Lower Upper
88 100
43 774079.6 27.1 40.7#
58 3119.4 53.9 80.9#

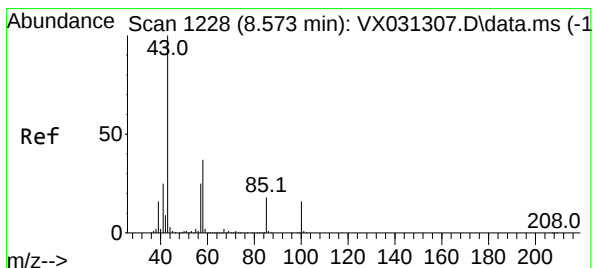
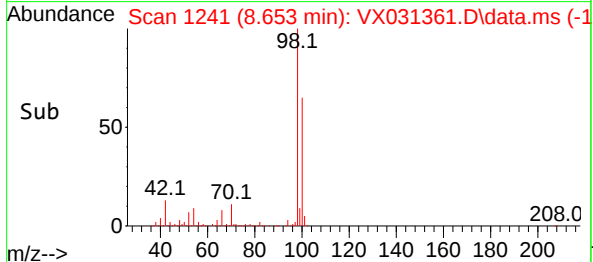
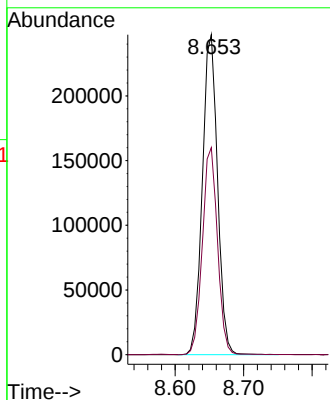
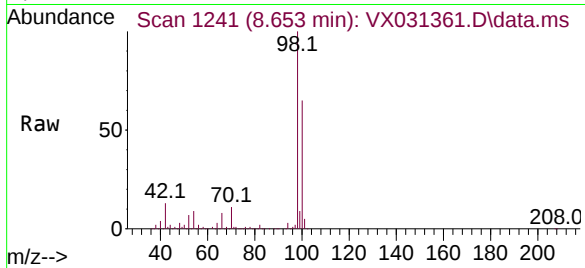




#50
Toluene-d8
Concen: 53.359 ug/l
RT: 8.653 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX031361.D
Acq: 15 Sep 2022 18:09

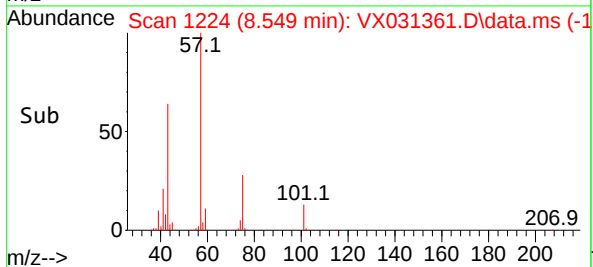
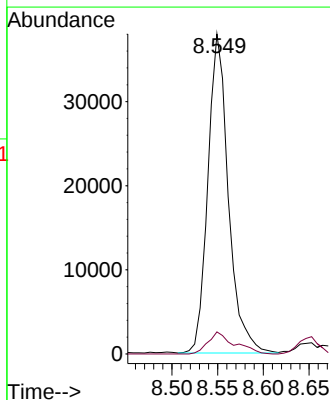
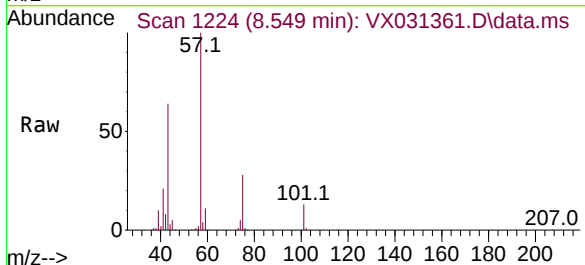
Instrument :
MSVOA_X
ClientSampleId :
S1-SO_113D-20220902

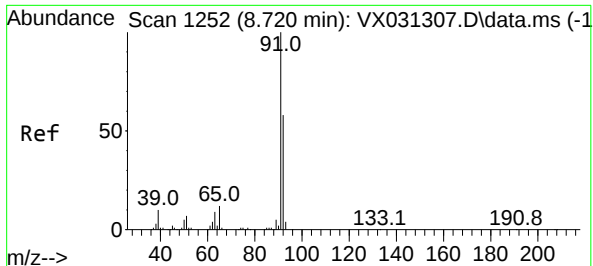
Tgt Ion: 98 Resp: 380743
Ion Ratio Lower Upper
98 100
100 64.5 52.5 78.7



#51
4-Methyl-2-Pentanone
Concen: 16.669 ug/l
RT: 8.549 min Scan# 1224
Delta R.T. -0.024 min
Lab File: VX031361.D
Acq: 15 Sep 2022 18:09

Tgt Ion: 43 Resp: 59175
Ion Ratio Lower Upper
43 100
58 8.8 30.6 46.0#





#52

Toluene

Concen: 0.202 ug/l

RT: 8.720 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX031361.D

Acq: 15 Sep 2022 18:09

Instrument :

MSVOA_X

ClientSampleId :

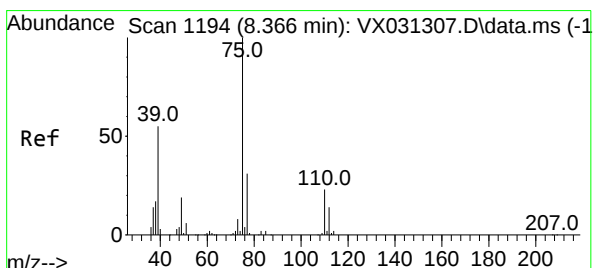
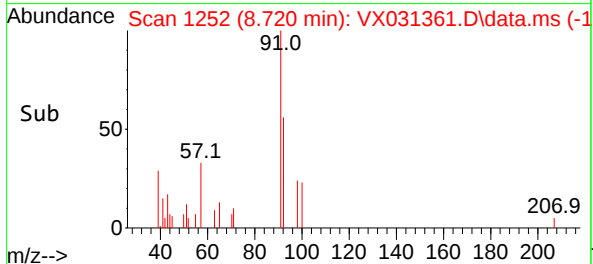
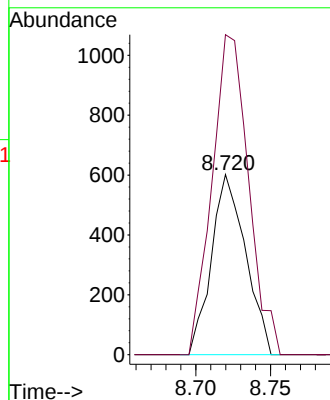
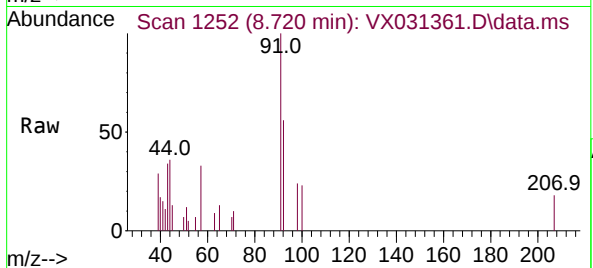
S1-SO_113D-20220902

Tgt Ion: 92 Resp: 957

Ion Ratio Lower Upper

92 100

91 189.9 137.1 205.7



#54

cis-1,3-Dichloropropene

Concen: 7.548 ug/l

RT: 8.549 min Scan# 1224

Delta R.T. 0.183 min

Lab File: VX031361.D

Acq: 15 Sep 2022 18:09

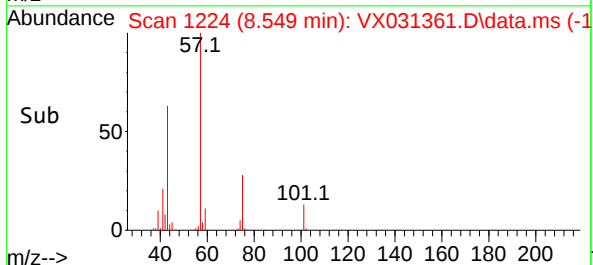
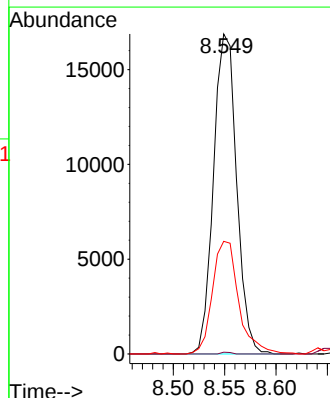
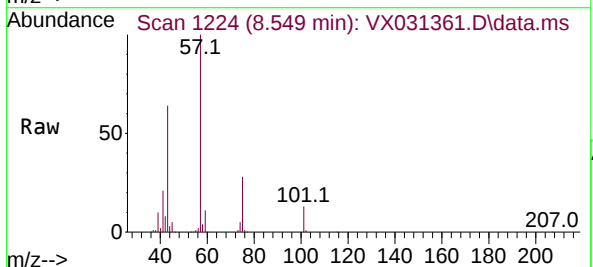
Tgt Ion: 75 Resp: 26355

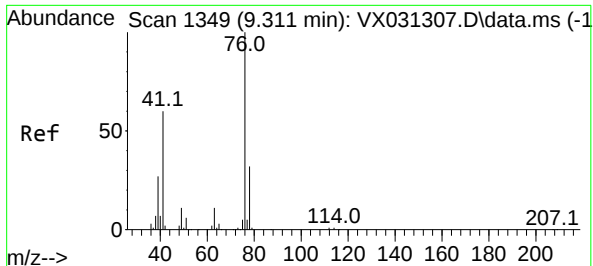
Ion Ratio Lower Upper

75 100

77 0.6 24.4 36.6#

39 35.2 43.7 65.5#





#57

1,3-Dichloropropane

Concen: 0.953 ug/l

RT: 9.482 min Scan# 1377

Delta R.T. 0.171 min

Lab File: VX031361.D

Acq: 15 Sep 2022 18:09

Instrument :

MSVOA_X

ClientSampleId :

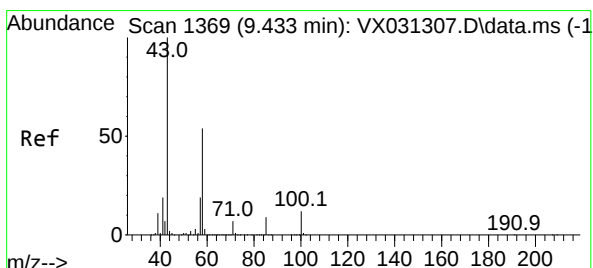
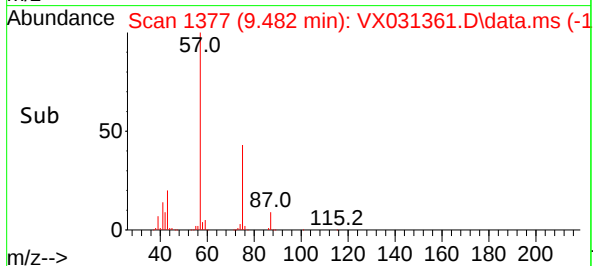
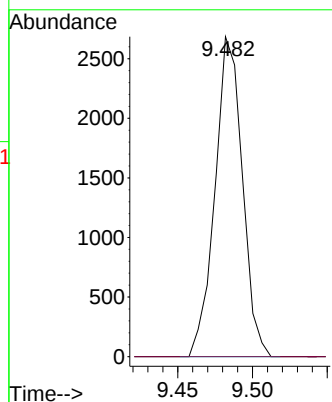
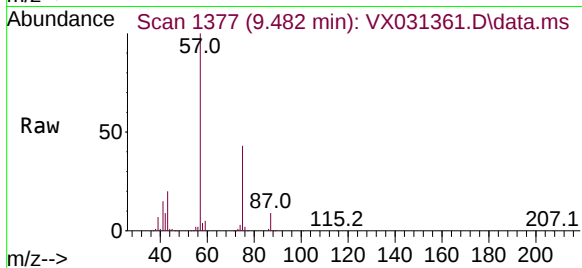
S1-SO_113D-20220902

Tgt Ion: 76 Resp: 3420

Ion Ratio Lower Upper

76 100

78 0.0 25.5 38.3#



#59

2-Hexanone

Concen: 16.454 ug/l

RT: 9.482 min Scan# 1377

Delta R.T. 0.049 min

Lab File: VX031361.D

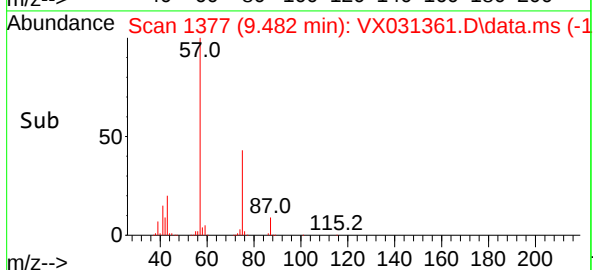
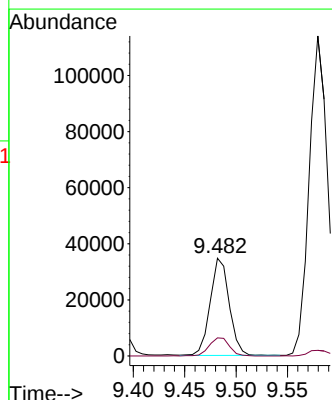
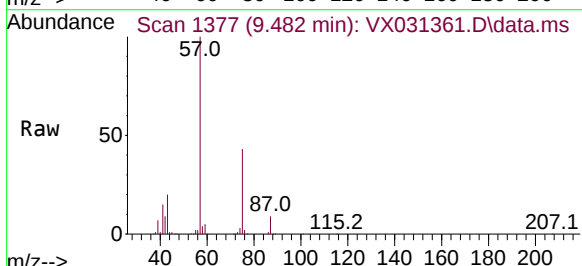
Acq: 15 Sep 2022 18:09

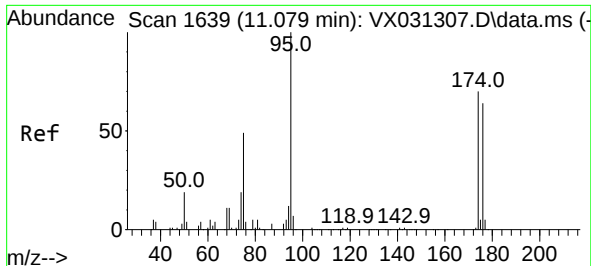
Tgt Ion: 43 Resp: 44580

Ion Ratio Lower Upper

43 100

58 19.9 26.7 80.0#

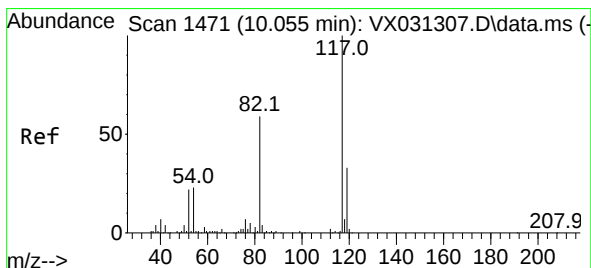
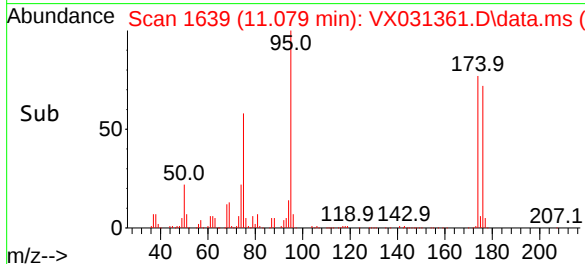
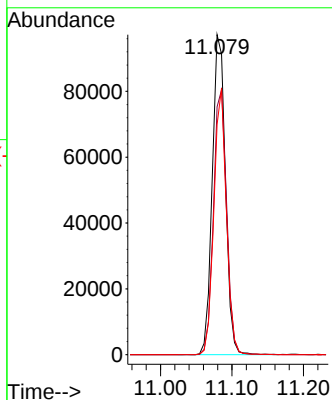
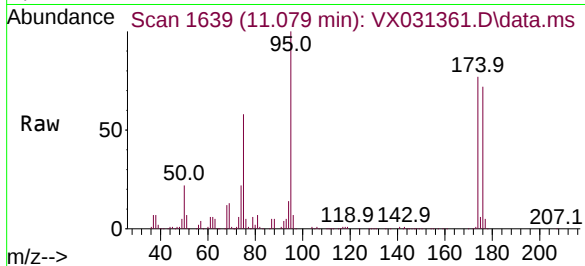




#62
4-Bromofluorobenzene
Concen: 47.449 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX031361.D
Acq: 15 Sep 2022 18:09

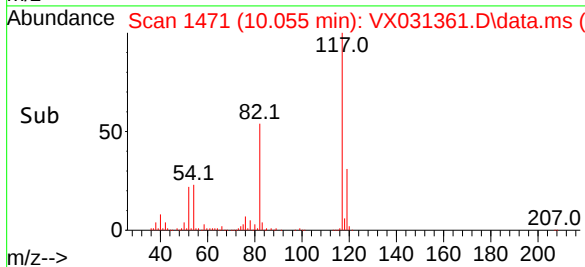
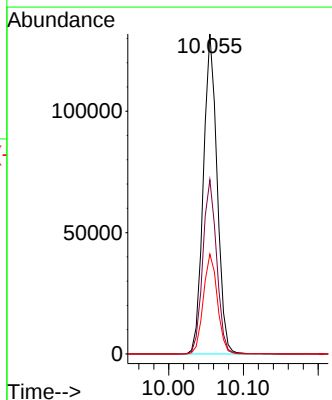
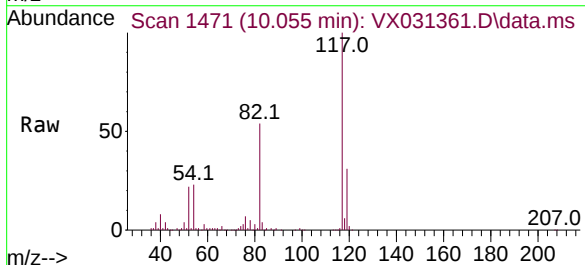
Instrument :
MSVOA_X
ClientSampleId :
S1-SO_113D-20220902

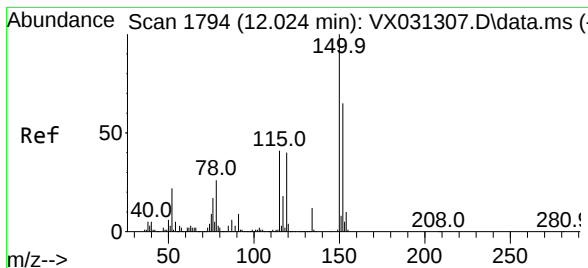
Tgt Ion: 95 Resp: 123982
Ion Ratio Lower Upper
95 100
174 83.0 0.0 153.2
176 79.4 0.0 144.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX031361.D
Acq: 15 Sep 2022 18:09

Tgt Ion: 117 Resp: 168686
Ion Ratio Lower Upper
117 100
82 54.4 46.8 70.2
119 31.2 26.4 39.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX031361.D

Acq: 15 Sep 2022 18:09

Instrument :

MSVOA_X

ClientSampleId :

S1-SO_113D-20220902

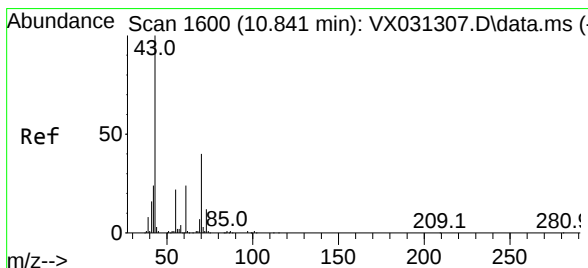
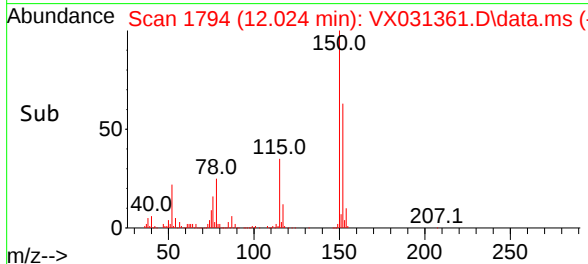
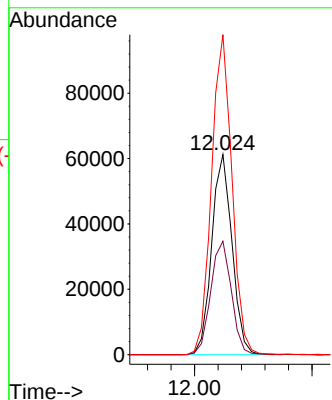
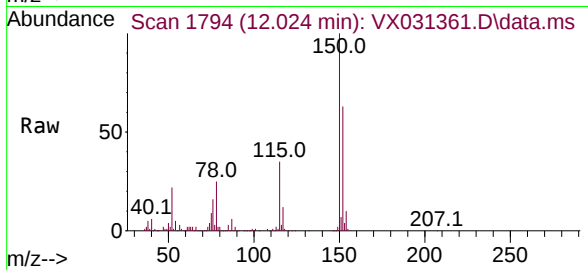
Tgt Ion:152 Resp: 73520

Ion Ratio Lower Upper

152 100

115 57.6 43.4 130.1

150 160.3 0.0 346.8



#74

N-ethyl acetate

Concen: 5.412 ug/l

RT: 10.640 min Scan# 1567

Delta R.T. -0.201 min

Lab File: VX031361.D

Acq: 15 Sep 2022 18:09

Tgt Ion: 43 Resp: 14611

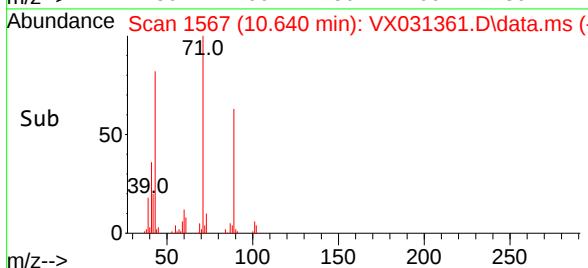
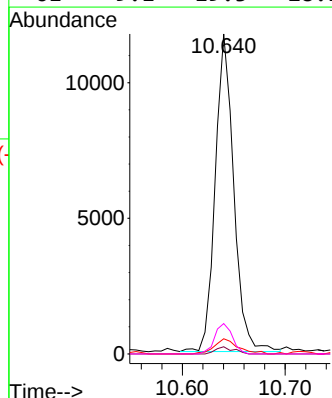
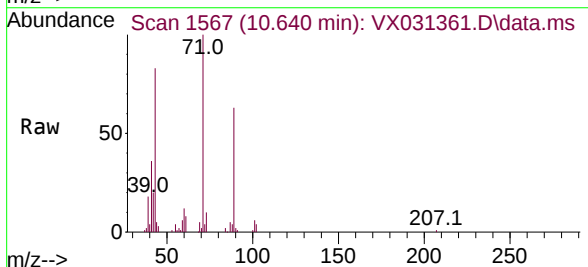
Ion Ratio Lower Upper

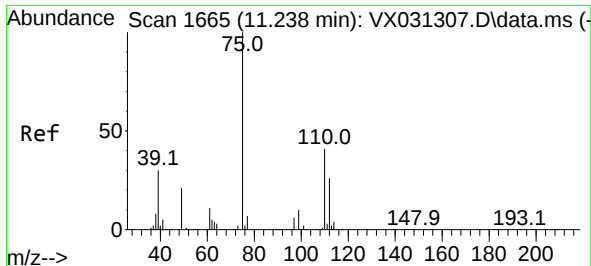
43 100

70 2.2 33.4 50.2#

55 6.1 18.2 27.2#

61 9.1 19.3 28.9#

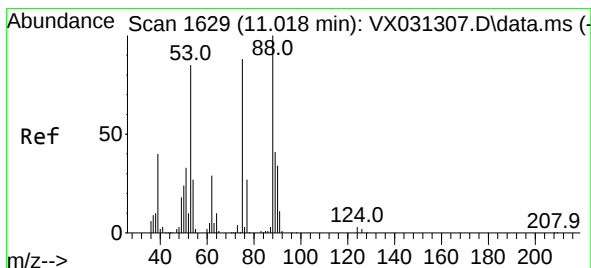
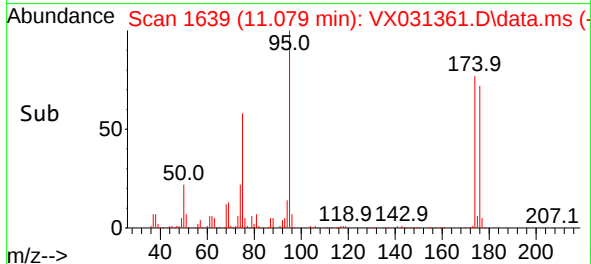
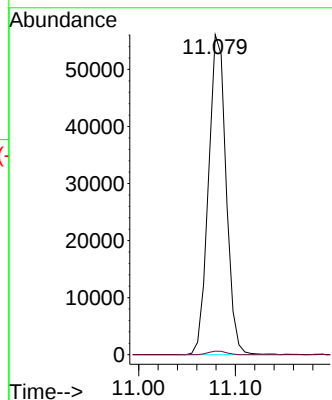
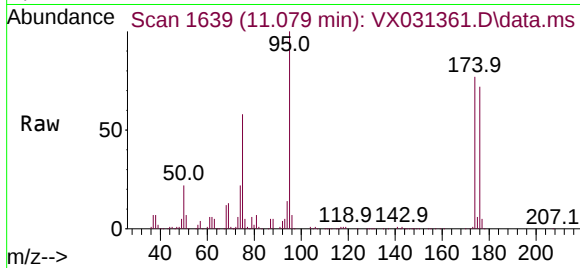




#76
1,2,3-Trichloropropane
Concen: 38.378 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.158 min
Lab File: VX031361.D
Acq: 15 Sep 2022 18:09

Instrument :
MSVOA_X
ClientSampleId :
S1-SO_113D-20220902

Tgt Ion: 75 Resp: 71104
Ion Ratio Lower Upper
75 100
77 1.1 20.3 60.9#



#81
trans-1,4-Dichloro-2-butene
Concen: 106.194 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX031361.D
Acq: 15 Sep 2022 18:09

Tgt Ion: 75 Resp: 71104
Ion Ratio Lower Upper
75 100
53 0.0 77.6 116.4#
89 0.1 37.4 56.0#

