

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX083122\
 Data File : VX030977.D
 Acq On : 31 Aug 2022 14:46
 Operator : JC/MD
 Sample : N4381-08
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-34

Quant Time: Sep 06 02:17:28 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X083022W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 30 14:24:53 2022
 Response via : Initial Calibration

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

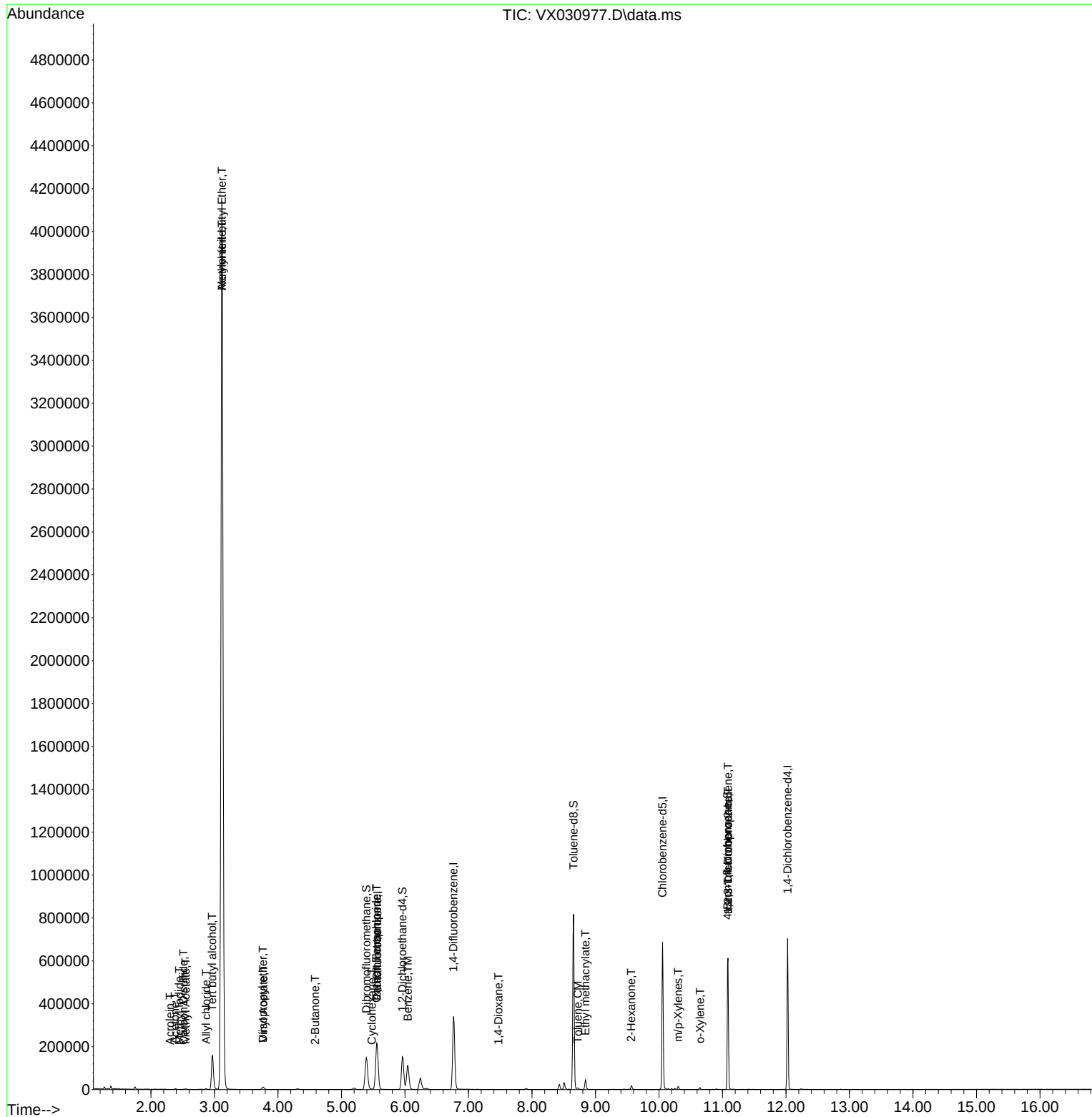
Internal Standards						
1) Pentafluorobenzene	5.562	168	213040	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	369604	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	325603	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	147692	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	145102	47.487	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	94.980%		
35) Dibromofluoromethane	5.391	113	135876	49.871	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	99.740%		
50) Toluene-d8	8.653	98	507173	50.265	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	100.540%		
62) 4-Bromofluorobenzene	11.079	95	182208	50.711	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	101.420%		
Target Compounds					Qvalue	
5) Bromomethane	1.605	94	390	Below Cal	#	29
10) Methyl Iodide	2.447	142	111	4.418	ug/l #	45
11) Tert butyl alcohol	2.965	59	195853	270.540	ug/l #	74
13) Acrolein	2.300	56	19	7.324	ug/l #	1
14) Allyl chloride	2.867	41	1208	0.288	ug/l #	68
15) Acrylonitrile	3.117	53	44784	28.015	ug/l #	30
16) Acetone	2.380	43	4400	3.191	ug/l	92
17) Carbon Disulfide	2.514	76	1946	0.285	ug/l	95
18) Methyl Acetate	2.544	43	1145	0.283	ug/l #	51
19) Methyl tert-butyl Ether	3.117	73	4935429	585.260	ug/l	95
22) Diisopropyl ether	3.764	45	11934	1.379	ug/l #	70
23) Vinyl Acetate	3.770	43	6141	0.884	ug/l #	72
25) 2-Butanone	4.587	43	1718	0.770	ug/l #	57
31) Cyclohexane	5.477	56	1332	0.295	ug/l #	69
36) 1,1-Dichloropropene	5.556	75	16158	3.990	ug/l #	49
38) Carbon Tetrachloride	5.550	117	21561	5.593	ug/l #	19
40) Benzene	6.044	78	143291	12.277	ug/l	96
49) 1,4-Dioxane	7.470	88	20	0.230	ug/l #	1
52) Toluene	8.720	92	2636	0.370	ug/l	96
56) Ethyl methacrylate	8.842	69	5345	1.180	ug/l #	76
59) 2-Hexanone	9.561	43	3540	1.092	ug/l	75
68) m/p-Xylenes	10.299	106	3445	0.666	ug/l	97
69) o-Xylene	10.647	106	1834	0.362	ug/l	80
76) 1,2,3-Trichloropropane	11.086	75	79042	21.739	ug/l #	38
81) trans-1,4-Dichloro-2-b...	11.086	75	79042	64.632	ug/l #	13

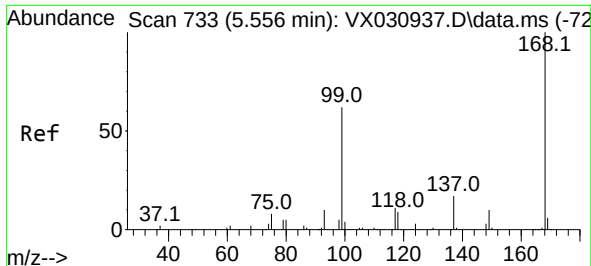
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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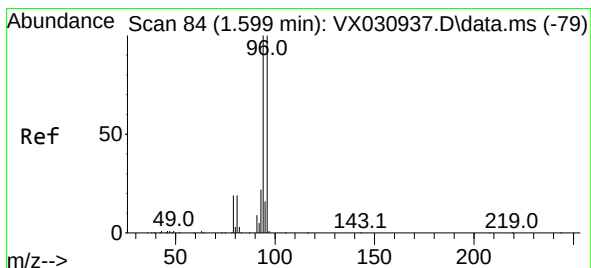
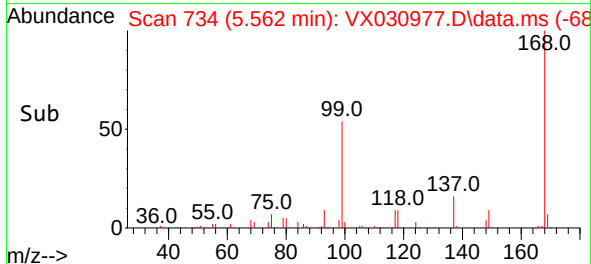
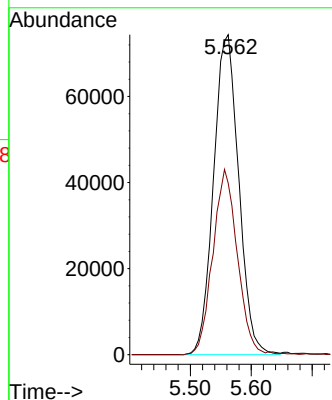
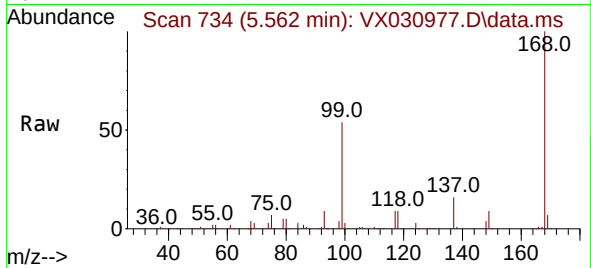




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 71
Delta R.T. 0.006 min
Lab File: VX030977.D
Acq: 31 Aug 2022 14:46

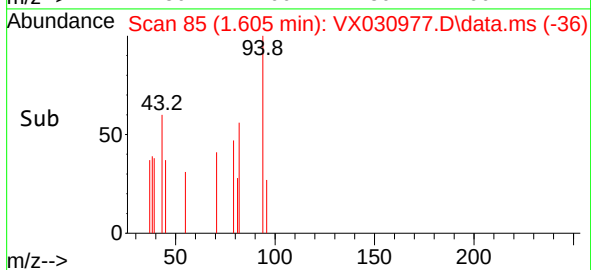
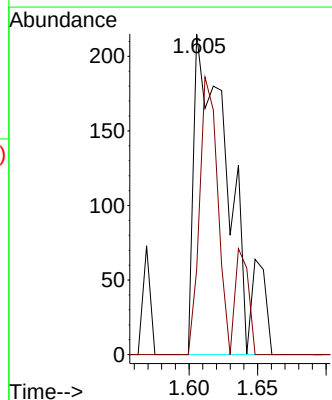
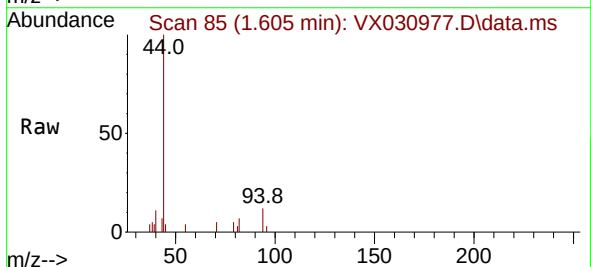
Instrument :
MSVOA_X
ClientSampleId :
MW-34

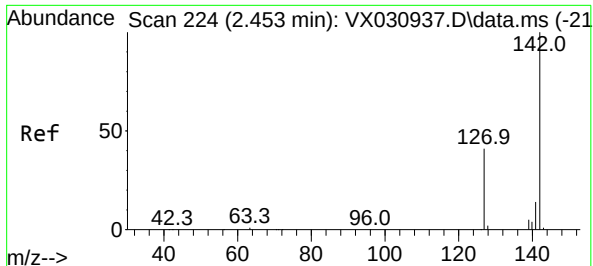
Tgt Ion:168 Resp: 213040
Ion Ratio Lower Upper
168 100
99 53.6 44.0 66.0



#5
Bromomethane
Concen: Below Cal
RT: 1.605 min Scan# 85
Delta R.T. 0.000 min
Lab File: VX030977.D
Acq: 31 Aug 2022 14:46

Tgt Ion: 94 Resp: 390
Ion Ratio Lower Upper
94 100
96 26.5 76.9 115.3#

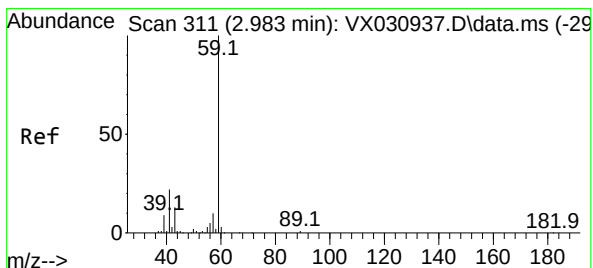
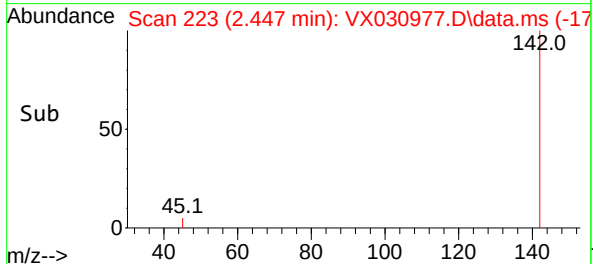
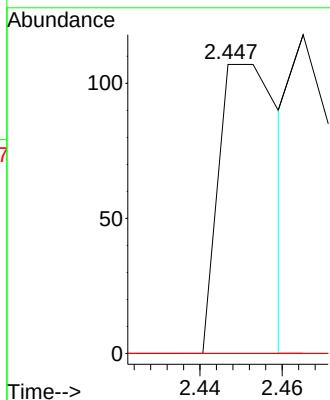
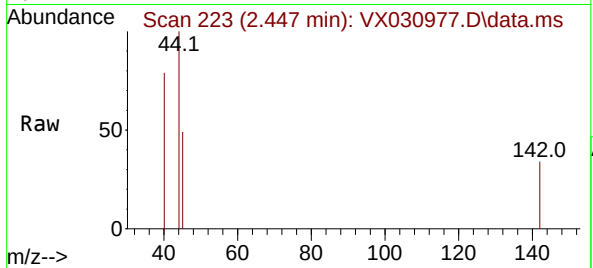




#10
Methyl Iodide
Concen: 4.418 ug/l
RT: 2.447 min Scan# 211
Delta R.T. -0.006 min
Lab File: VX030977.D
Acq: 31 Aug 2022 14:46

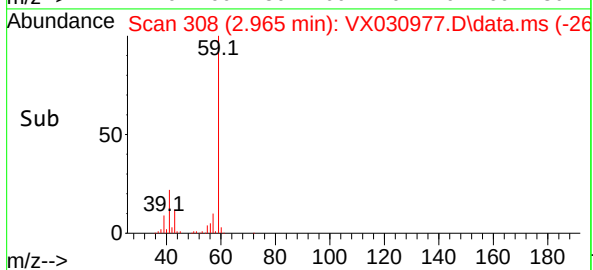
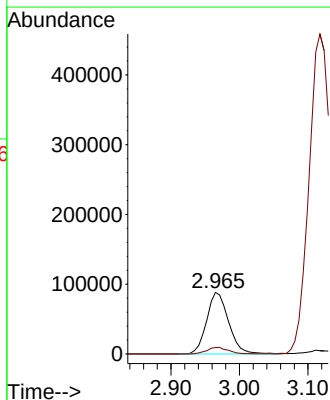
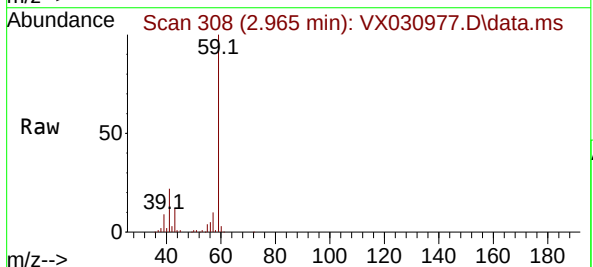
Instrument :
MSVOA_X
ClientSampleId :
MW-34

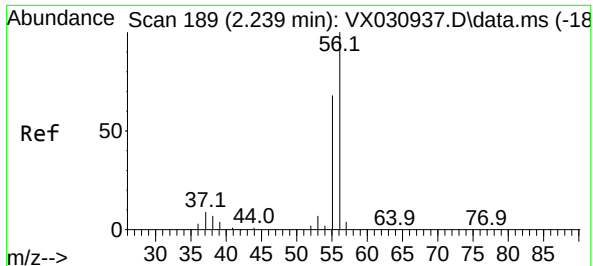
Tgt Ion:142 Resp: 111
Ion Ratio Lower Upper
142 100
127 0.0 30.2 45.2#
141 0.0 11.3 16.9#



#11
Tert butyl alcohol
Concen: 270.540 ug/l
RT: 2.965 min Scan# 308
Delta R.T. -0.024 min
Lab File: VX030977.D
Acq: 31 Aug 2022 14:46

Tgt Ion: 59 Resp: 195853
Ion Ratio Lower Upper
59 100
57 0.0 7.4 11.2#

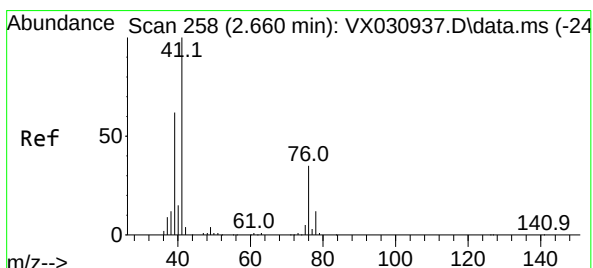
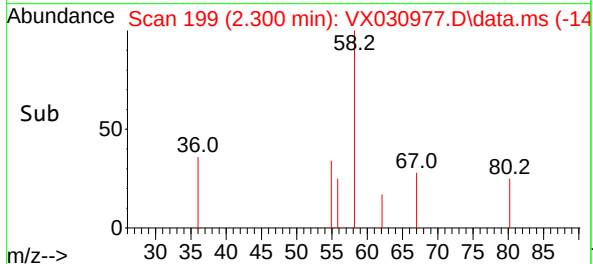
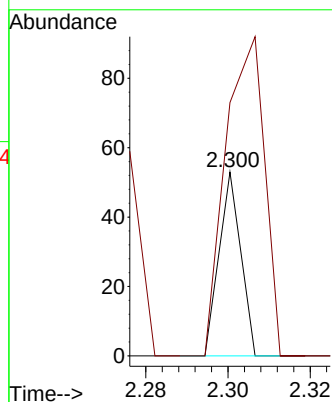
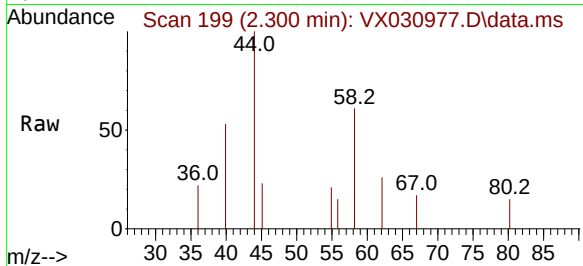




#13
Acrolein
Concen: 7.324 ug/l
RT: 2.300 min Scan# 19
Delta R.T. 0.061 min
Lab File: VX030977.D
Acq: 31 Aug 2022 14:46

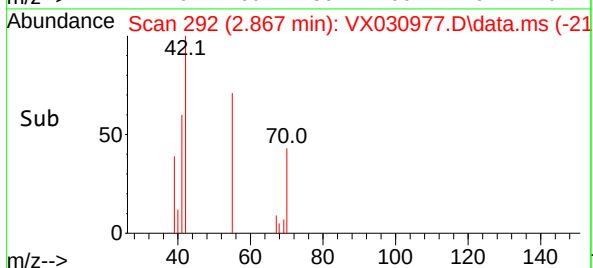
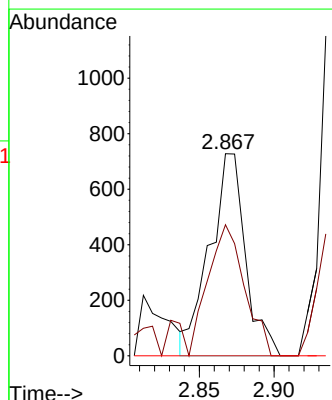
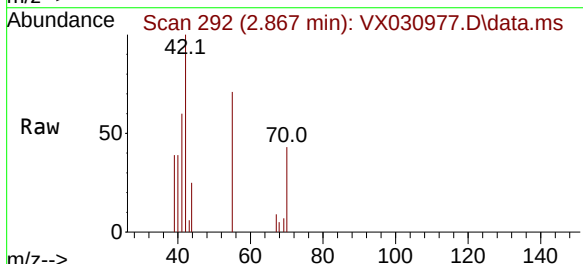
Instrument :
MSVOA_X
ClientSampleId :
MW-34

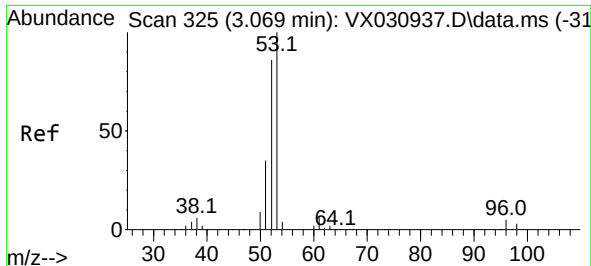
Tgt Ion: 56 Resp: 19
Ion Ratio Lower Upper
56 100
55 315.8 56.6 84.8#



#14
Allyl chloride
Concen: 0.288 ug/l
RT: 2.867 min Scan# 292
Delta R.T. 0.201 min
Lab File: VX030977.D
Acq: 31 Aug 2022 14:46

Tgt Ion: 41 Resp: 1208
Ion Ratio Lower Upper
41 100
39 74.0 48.9 73.3#
76 0.0 26.9 40.3#





#15

Acrylonitrile

Concen: 28.015 ug/l

RT: 3.117 min Scan# 31

Delta R.T. 0.048 min

Lab File: VX030977.D

Acq: 31 Aug 2022 14:46

Instrument :

MSVOA_X

ClientSampleId :

MW-34

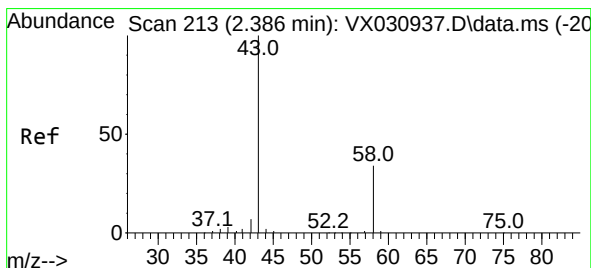
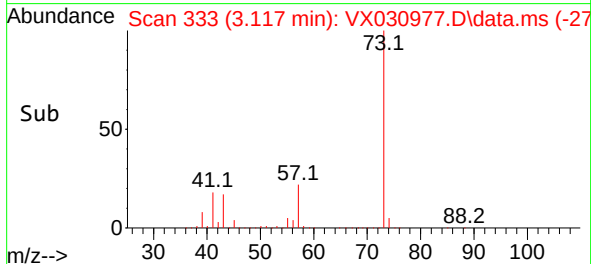
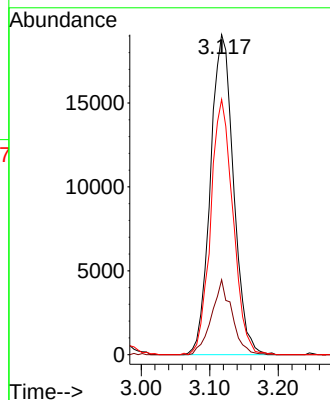
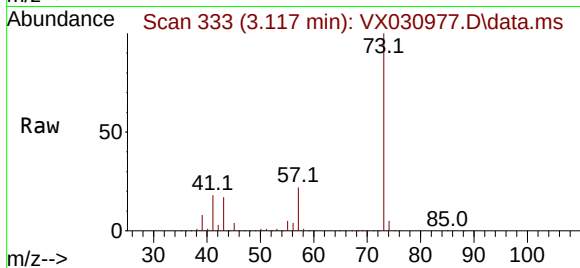
Tgt Ion: 53 Resp: 44784

Ion Ratio Lower Upper

53 100

52 20.7 65.4 98.0#

51 77.0 27.7 41.5#



#16

Acetone

Concen: 3.191 ug/l

RT: 2.380 min Scan# 212

Delta R.T. -0.006 min

Lab File: VX030977.D

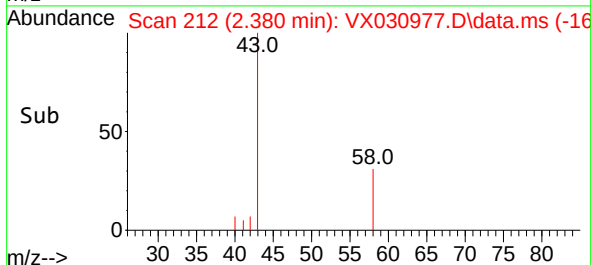
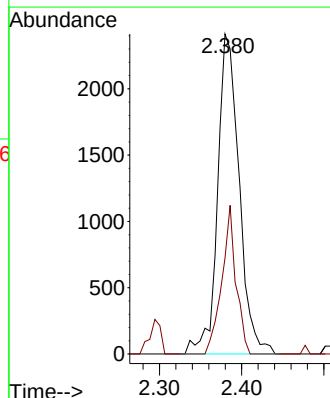
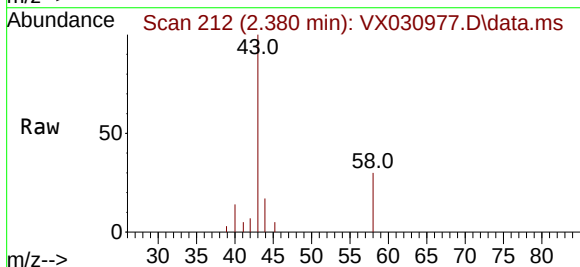
Acq: 31 Aug 2022 14:46

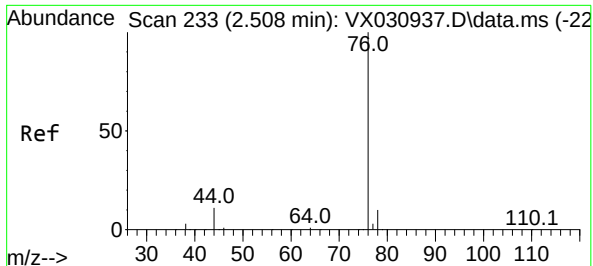
Tgt Ion: 43 Resp: 4400

Ion Ratio Lower Upper

43 100

58 30.0 27.7 41.5





#17

Carbon Disulfide

Concen: 0.285 ug/l

RT: 2.514 min Scan# 21

Delta R.T. -0.000 min

Lab File: VX030977.D

Acq: 31 Aug 2022 14:46

Instrument :

MSVOA_X

ClientSampleId :

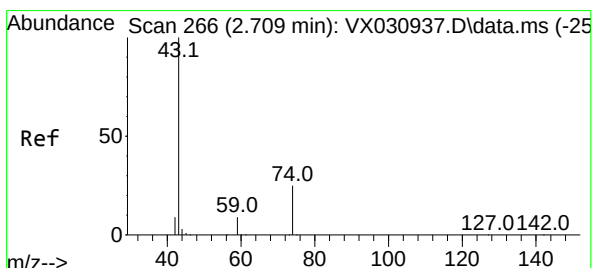
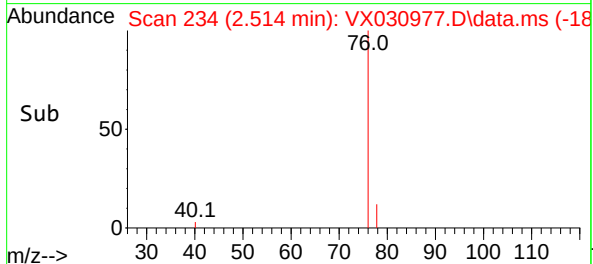
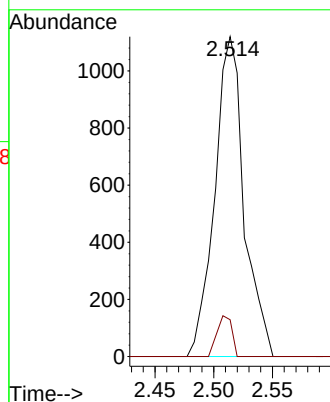
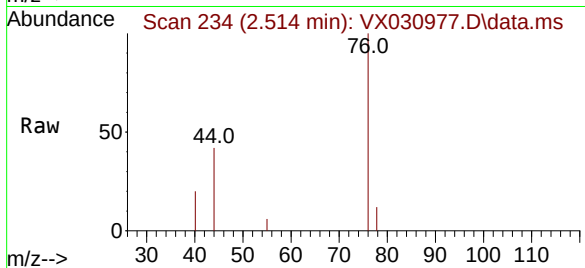
MW-34

Tgt Ion: 76 Resp: 1946

Ion Ratio Lower Upper

76 100

78 11.5 7.8 11.6



#18

Methyl Acetate

Concen: 0.283 ug/l

RT: 2.544 min Scan# 239

Delta R.T. -0.165 min

Lab File: VX030977.D

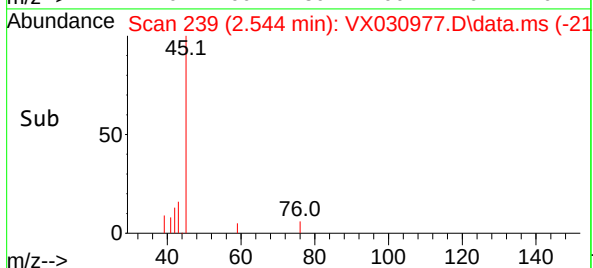
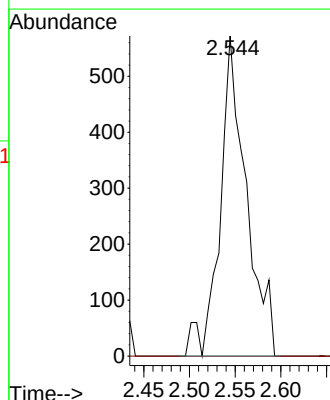
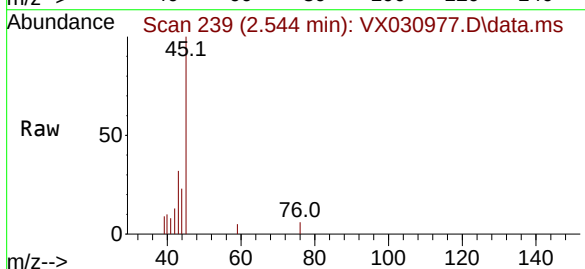
Acq: 31 Aug 2022 14:46

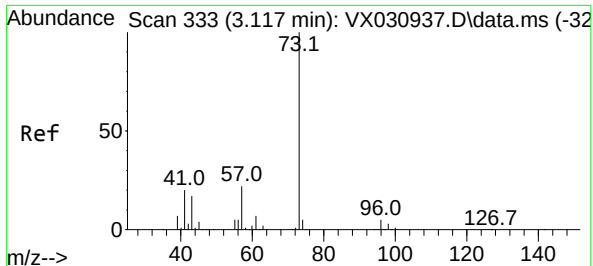
Tgt Ion: 43 Resp: 1145

Ion Ratio Lower Upper

43 100

74 0.0 19.4 29.2#

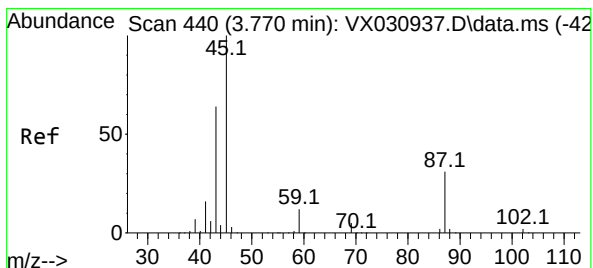
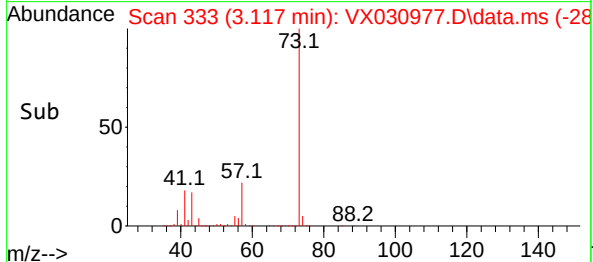
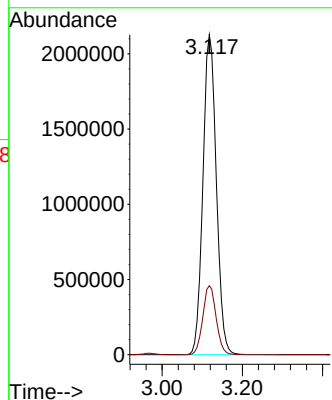
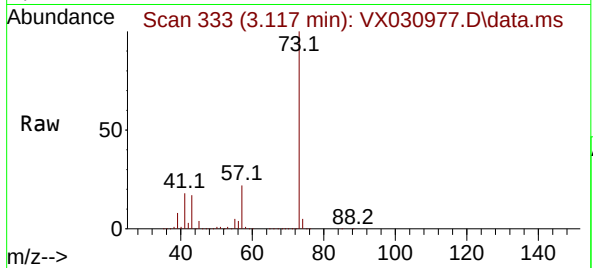




#19
Methyl tert-butyl Ether
Concen: 585.260 ug/l
RT: 3.117 min Scan# 311
Delta R.T. 0.000 min
Lab File: VX030977.D
Acq: 31 Aug 2022 14:46

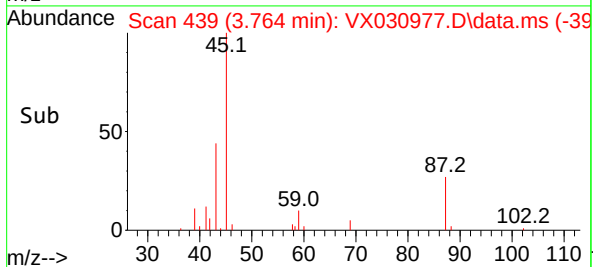
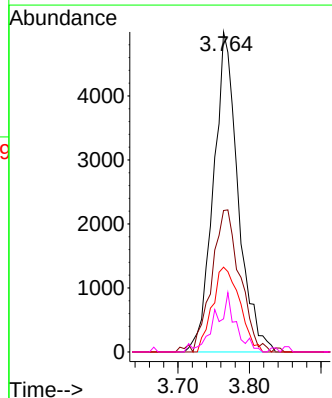
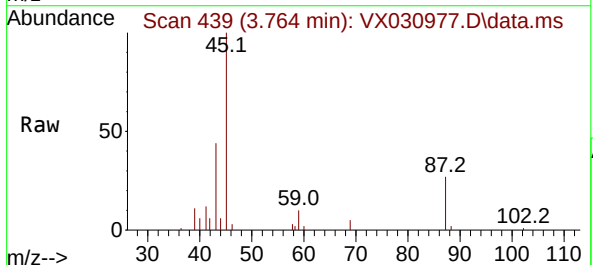
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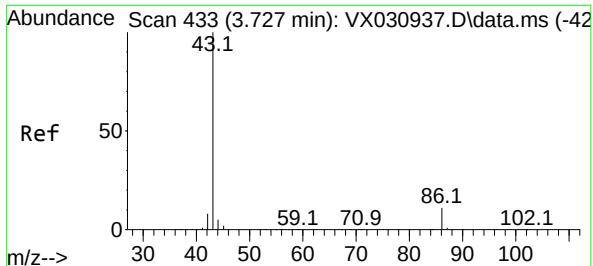
Tgt Ion: 73 Resp: 4935429
Ion Ratio Lower Upper
73 100
57 21.6 19.0 28.6



#22
Diisopropyl ether
Concen: 1.379 ug/l
RT: 3.764 min Scan# 439
Delta R.T. -0.006 min
Lab File: VX030977.D
Acq: 31 Aug 2022 14:46

Tgt Ion: 45 Resp: 11934
Ion Ratio Lower Upper
45 100
43 43.0 65.4 98.0#
87 26.5 22.3 33.5
59 10.4 9.0 13.4

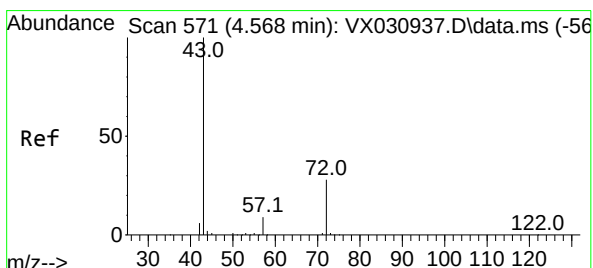
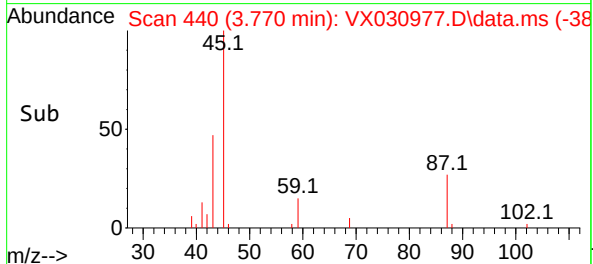
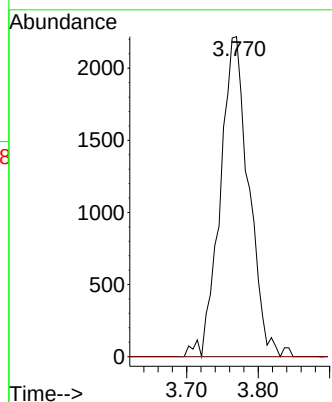
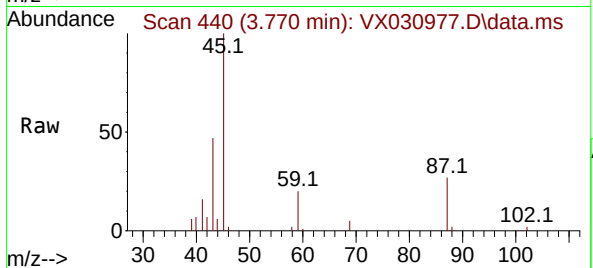




#23
 Vinyl Acetate
 Concen: 0.884 ug/l
 RT: 3.770 min Scan# 44
 Delta R.T. 0.043 min
 Lab File: VX030977.D
 Acq: 31 Aug 2022 14:46

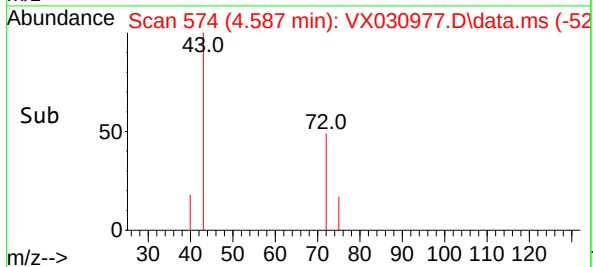
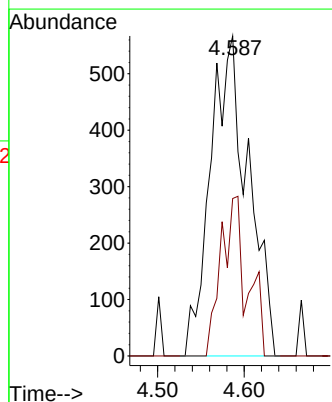
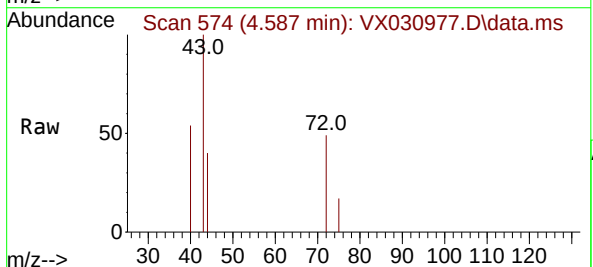
Instrument :
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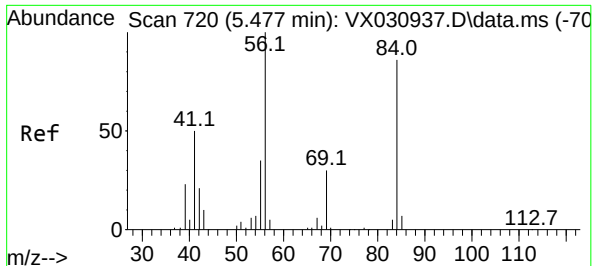
Tgt Ion: 43 Resp: 6141
 Ion Ratio Lower Upper
 43 100
 86 0.0 8.5 12.7#



#25
 2-Butanone
 Concen: 0.770 ug/l
 RT: 4.587 min Scan# 574
 Delta R.T. 0.019 min
 Lab File: VX030977.D
 Acq: 31 Aug 2022 14:46

Tgt Ion: 43 Resp: 1718
 Ion Ratio Lower Upper
 43 100
 72 49.2 21.7 32.5#

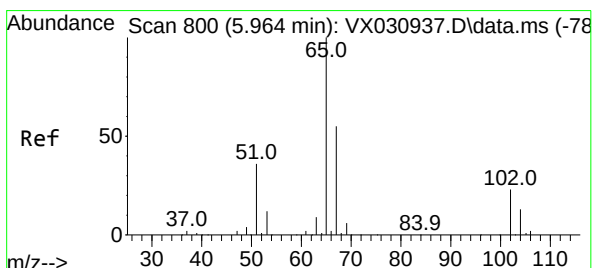
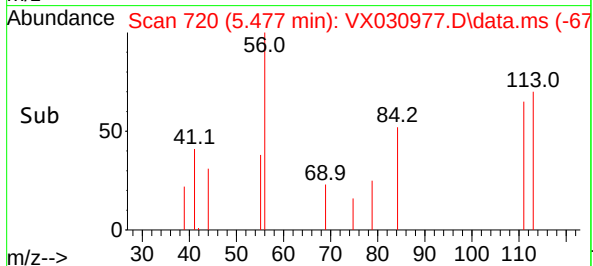
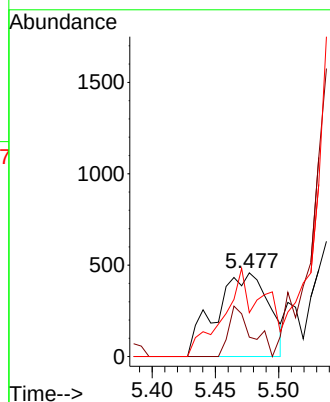
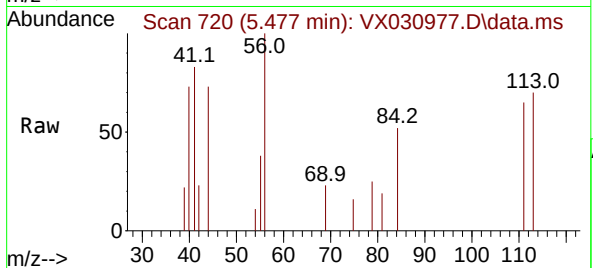




#31
Cyclohexane
Concen: 0.295 ug/l
RT: 5.477 min Scan# 719
Delta R.T. -0.000 min
Lab File: VX030977.D
Acq: 31 Aug 2022 14:46

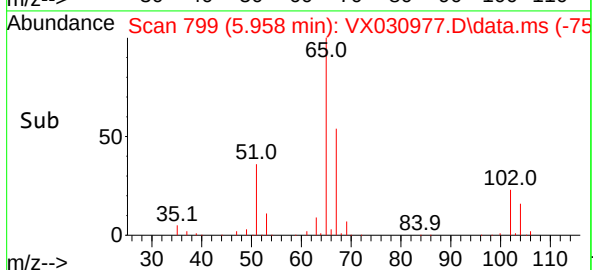
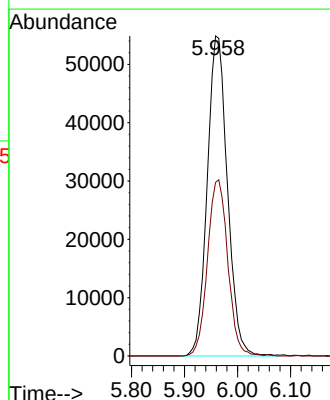
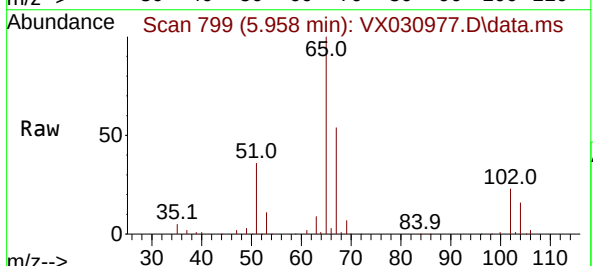
Instrument :
MSVOA_X
ClientSampleId :
MW-34

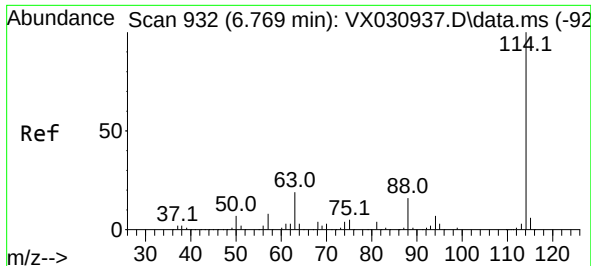
Tgt Ion: 56 Resp: 1332
Ion Ratio Lower Upper
56 100
69 23.1 25.4 38.0#
84 52.4 68.9 103.3#



#33
1,2-Dichloroethane-d4
Concen: 47.487 ug/l
RT: 5.958 min Scan# 799
Delta R.T. 0.000 min
Lab File: VX030977.D
Acq: 31 Aug 2022 14:46

Tgt Ion: 65 Resp: 145102
Ion Ratio Lower Upper
65 100
67 55.3 0.0 109.6

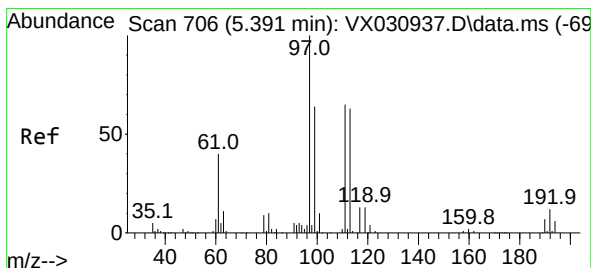
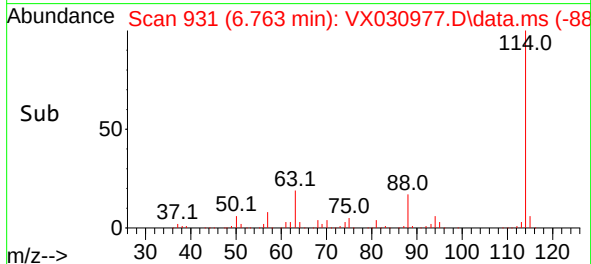
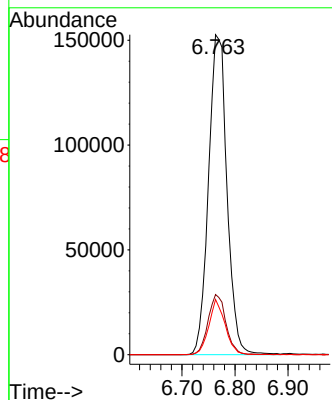
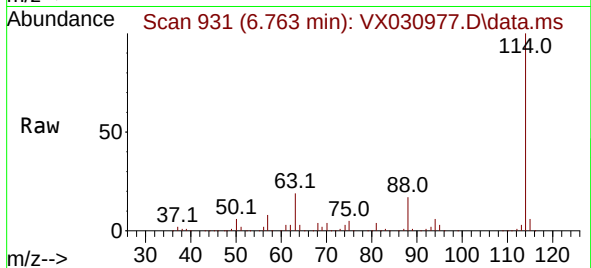




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 91
Delta R.T. -0.006 min
Lab File: VX030977.D
Acq: 31 Aug 2022 14:46

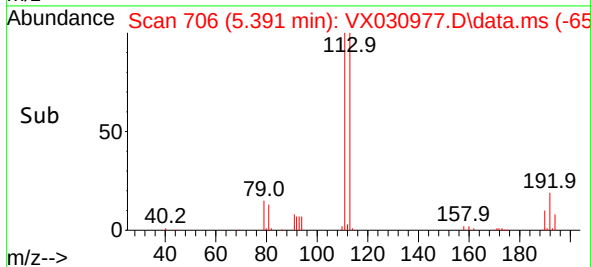
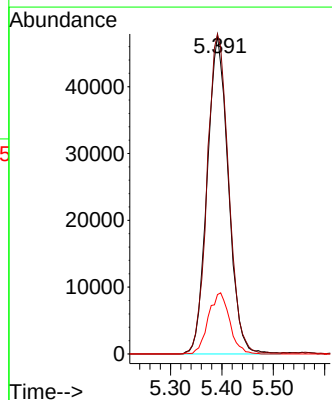
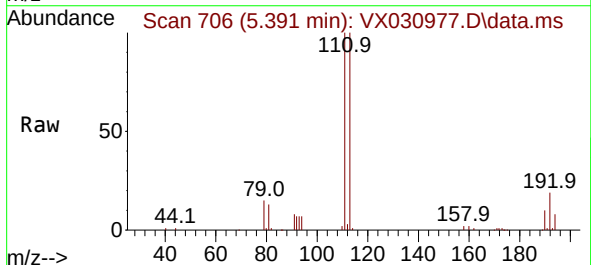
Instrument :
MSVOA_X
ClientSampleId :
MW-34

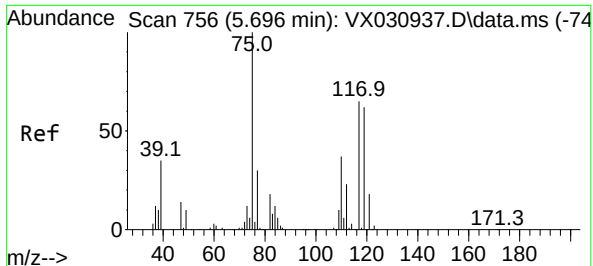
Tgt Ion:114 Resp: 369604
Ion Ratio Lower Upper
114 100
63 18.8 0.0 38.4
88 17.2 0.0 31.8



#35
Dibromofluoromethane
Concen: 49.871 ug/l
RT: 5.391 min Scan# 706
Delta R.T. 0.000 min
Lab File: VX030977.D
Acq: 31 Aug 2022 14:46

Tgt Ion:113 Resp: 135876
Ion Ratio Lower Upper
113 100
111 102.3 83.2 124.8
192 19.4 14.8 22.2

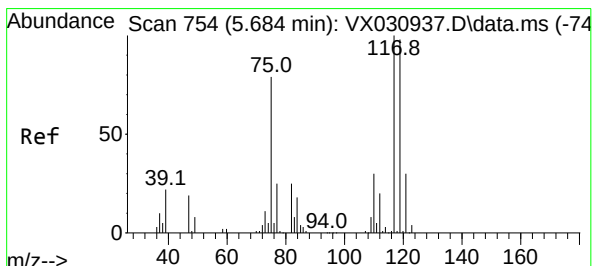
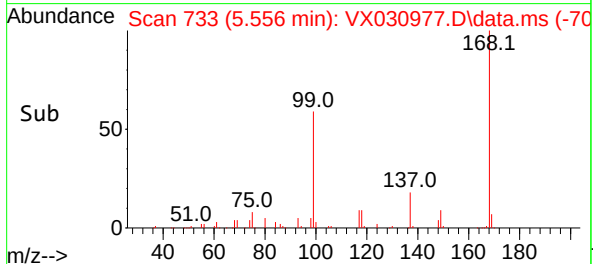
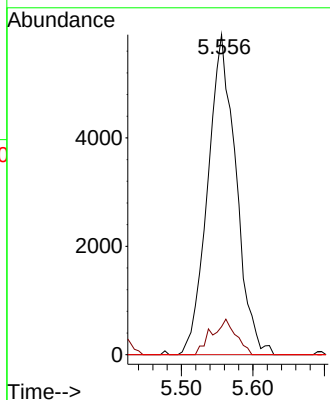
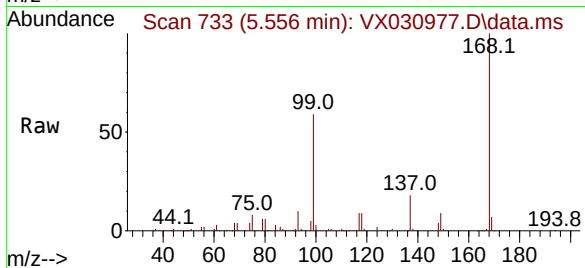




#36
1,1-Dichloropropene
Concen: 3.990 ug/l
RT: 5.556 min Scan# 711
Delta R.T. -0.140 min
Lab File: VX030977.D
Acq: 31 Aug 2022 14:46

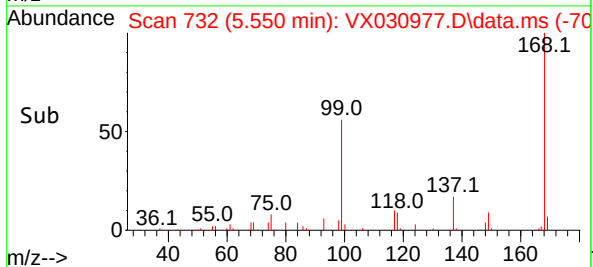
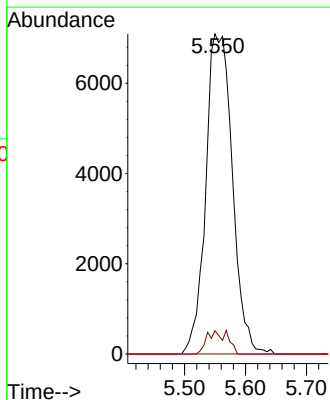
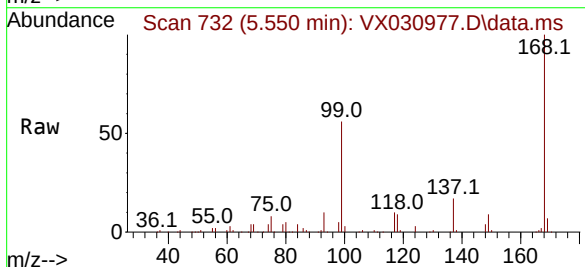
Instrument :
MSVOA_X
ClientSampleId :
MW-34

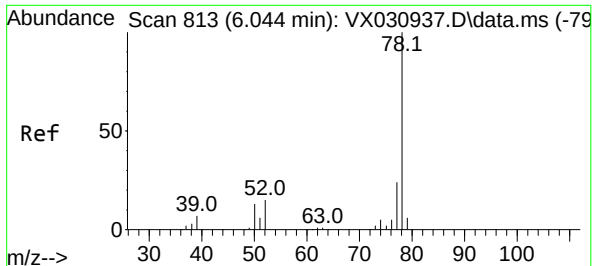
Tgt Ion: 75 Resp: 16158
Ion Ratio Lower Upper
75 100
110 9.6 19.3 57.9#
77 0.0 24.4 36.6#



#38
Carbon Tetrachloride
Concen: 5.593 ug/l
RT: 5.550 min Scan# 732
Delta R.T. -0.134 min
Lab File: VX030977.D
Acq: 31 Aug 2022 14:46

Tgt Ion: 117 Resp: 21561
Ion Ratio Lower Upper
117 100
119 7.2 74.1 111.1#
121 0.0 25.8 38.8#

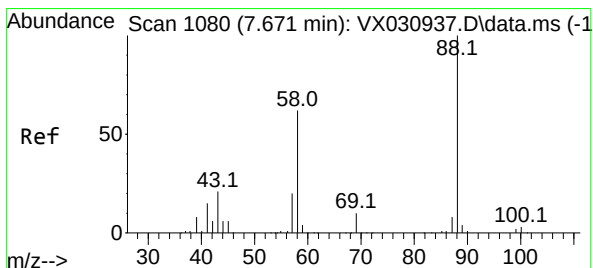
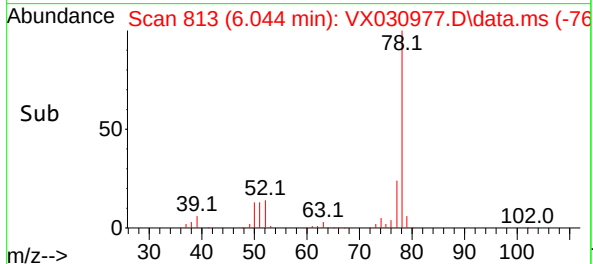
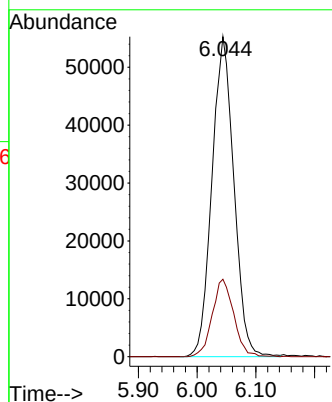
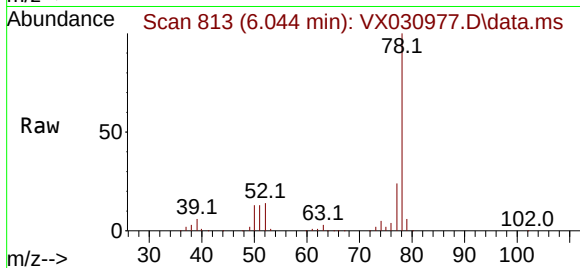




#40
Benzene
Concen: 12.277 ug/l
RT: 6.044 min Scan# 813
Delta R.T. -0.000 min
Lab File: VX030977.D
Acq: 31 Aug 2022 14:46

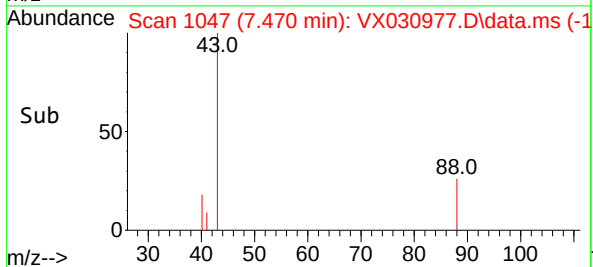
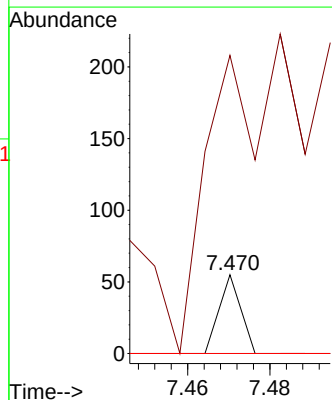
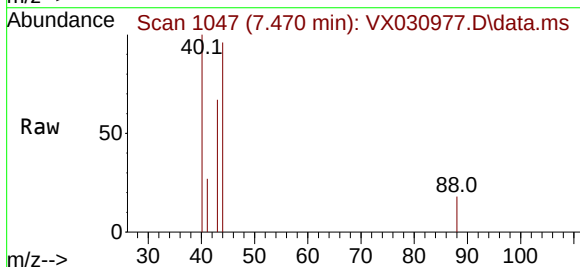
Instrument :
MSVOA_X
ClientSampleId :
MW-34

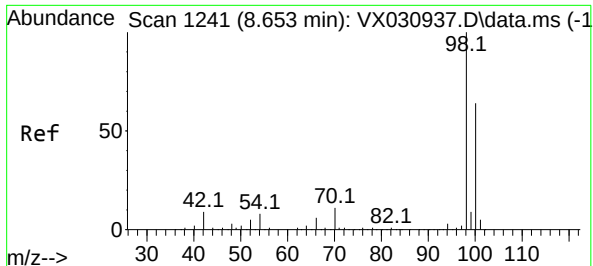
Tgt Ion: 78 Resp: 143291
Ion Ratio Lower Upper
78 100
77 24.2 18.0 27.0



#49
1,4-Dioxane
Concen: 0.230 ug/l
RT: 7.470 min Scan# 1047
Delta R.T. -0.207 min
Lab File: VX030977.D
Acq: 31 Aug 2022 14:46

Tgt Ion: 88 Resp: 20
Ion Ratio Lower Upper
88 100
43 1145.0 23.8 35.8#
58 0.0 53.8 80.6#

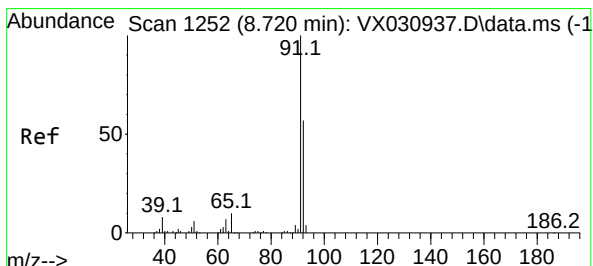
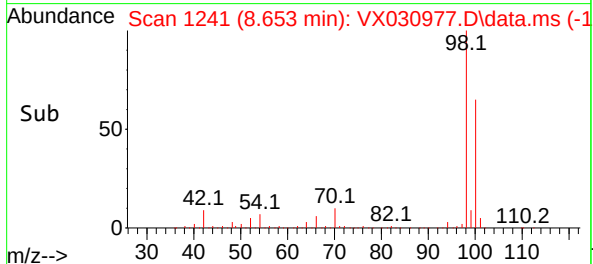
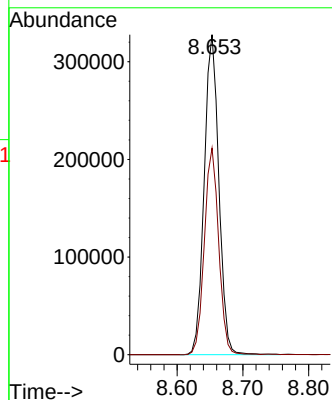
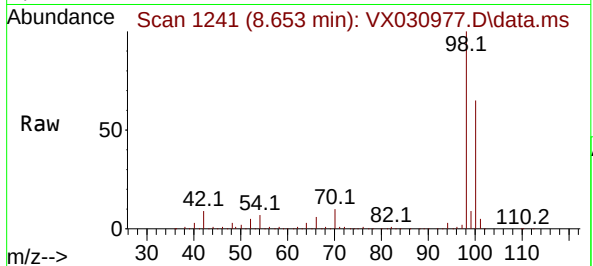




#50
Toluene-d8
Concen: 50.265 ug/l
RT: 8.653 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX030977.D
Acq: 31 Aug 2022 14:46

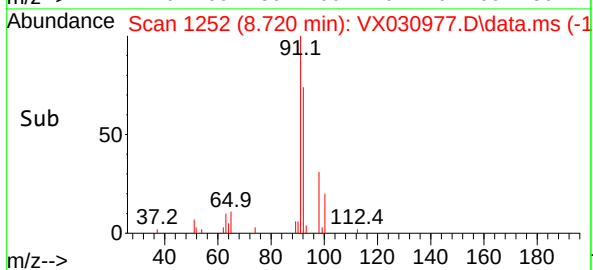
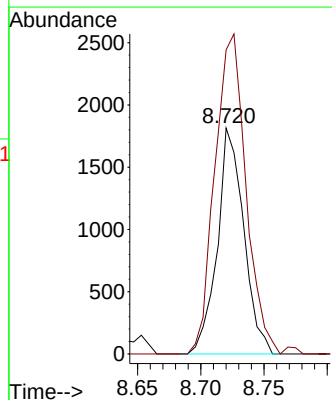
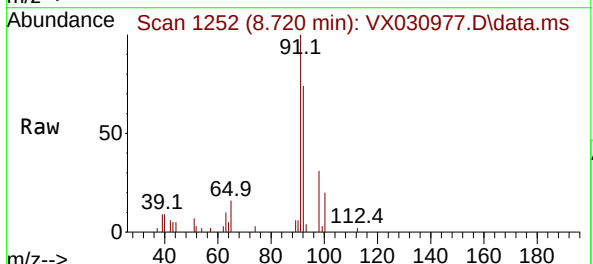
Instrument :
MSVOA_X
ClientSampleId :
MW-34

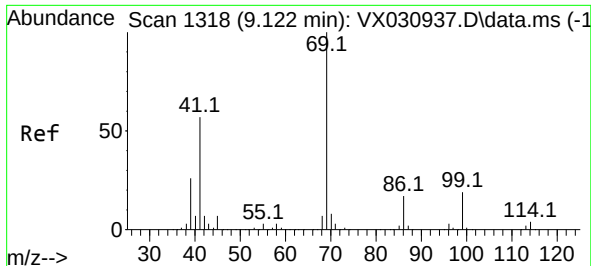
Tgt Ion: 98 Resp: 507173
Ion Ratio Lower Upper
98 100
100 63.2 52.3 78.5



#52
Toluene
Concen: 0.370 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX030977.D
Acq: 31 Aug 2022 14:46

Tgt Ion: 92 Resp: 2636
Ion Ratio Lower Upper
92 100
91 168.0 139.2 208.8

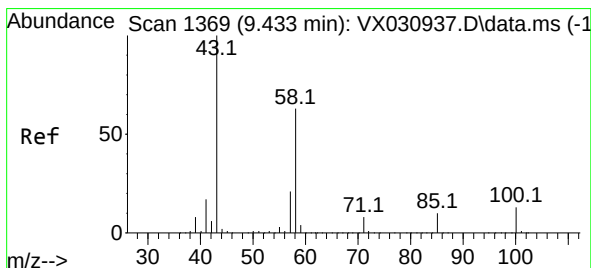
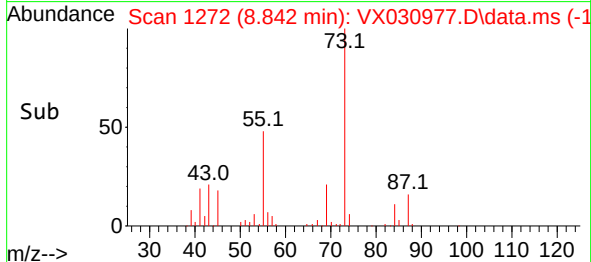
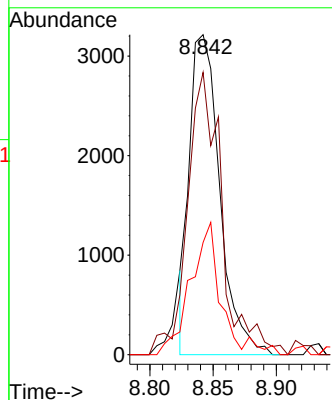
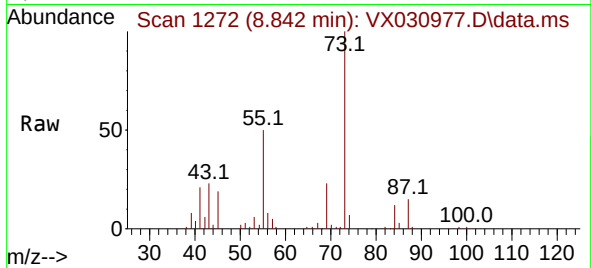




#56
Ethyl methacrylate
Concen: 1.180 ug/l
RT: 8.842 min Scan# 1318
Delta R.T. -0.280 min
Lab File: VX030977.D
Acq: 31 Aug 2022 14:46

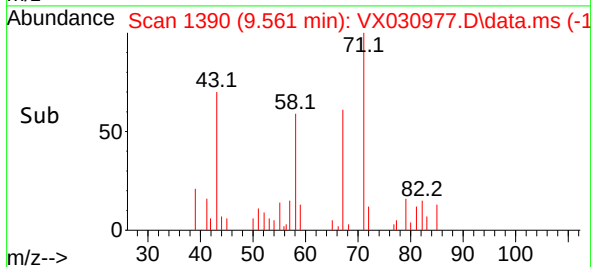
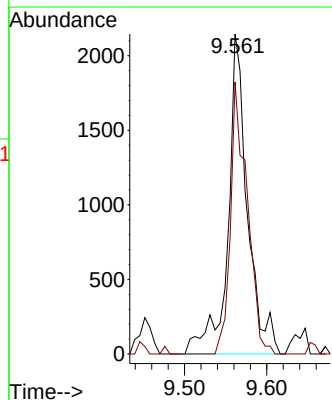
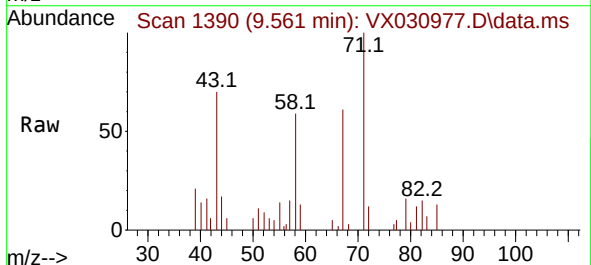
Instrument :
MSVOA_X
ClientSampleId :
MW-34

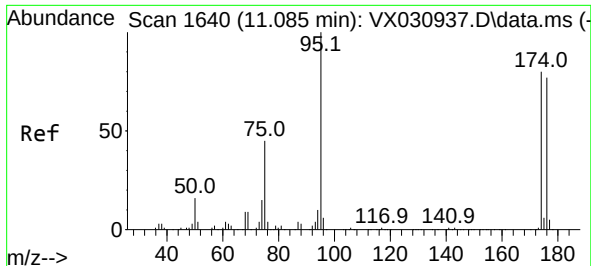
Tgt Ion: 69 Resp: 5345
Ion Ratio Lower Upper
69 100
41 92.0 52.3 78.5#
39 32.4 28.2 42.4



#59
2-Hexanone
Concen: 1.092 ug/l
RT: 9.561 min Scan# 1390
Delta R.T. 0.128 min
Lab File: VX030977.D
Acq: 31 Aug 2022 14:46

Tgt Ion: 43 Resp: 3540
Ion Ratio Lower Upper
43 100
58 73.3 27.6 82.8





#62

4-Bromofluorobenzene

Concen: 50.711 ug/l

RT: 11.079 min Scan# 1

Delta R.T. -0.006 min

Lab File: VX030977.D

Acq: 31 Aug 2022 14:46

Instrument :

MSVOA_X

ClientSampleId :

MW-34

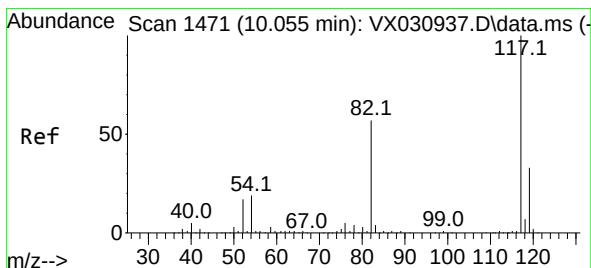
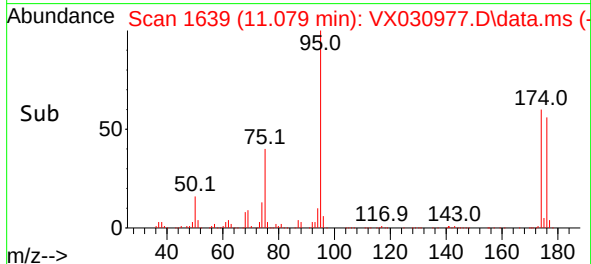
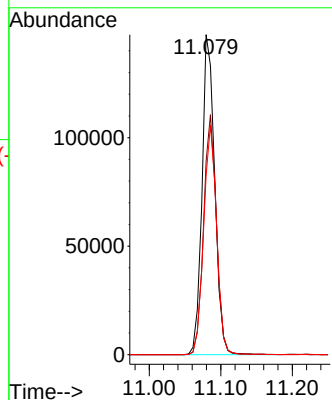
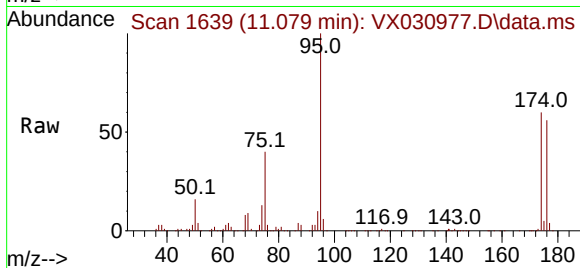
Tgt Ion: 95 Resp: 182208

Ion Ratio Lower Upper

95 100

174 75.4 0.0 149.0

176 73.0 0.0 146.0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

Lab File: VX030977.D

Acq: 31 Aug 2022 14:46

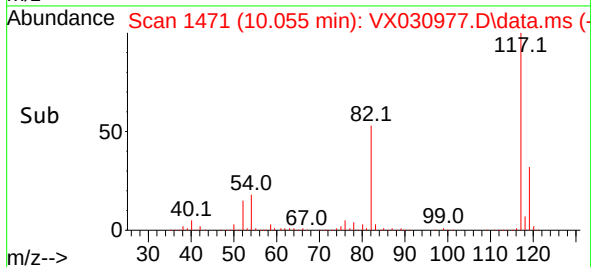
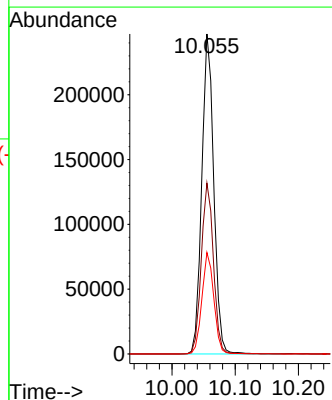
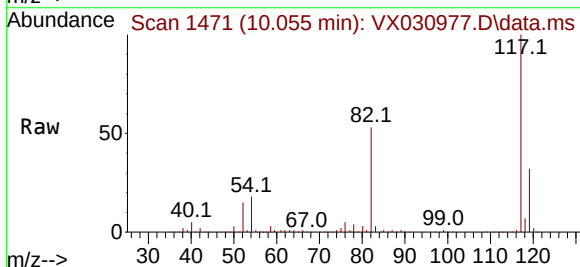
Tgt Ion: 117 Resp: 325603

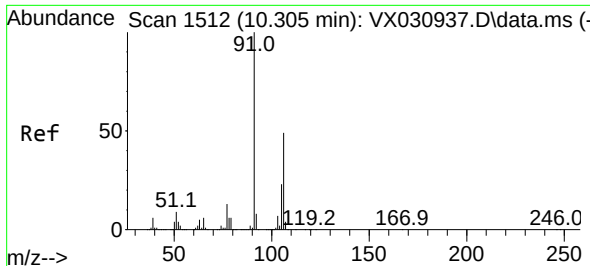
Ion Ratio Lower Upper

117 100

82 53.4 42.7 64.1

119 31.7 25.4 38.2

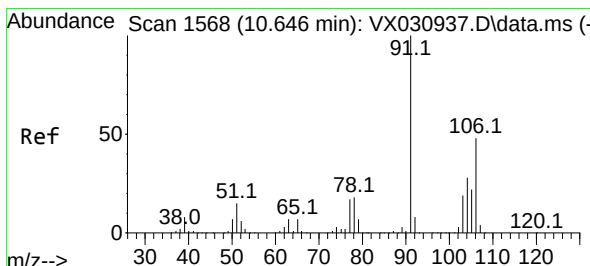
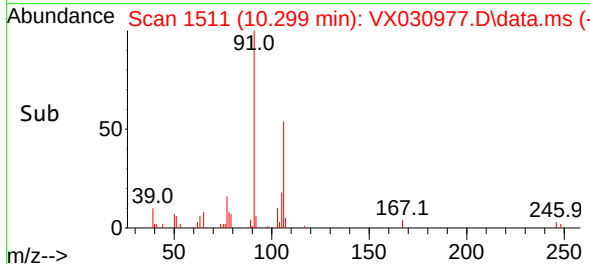
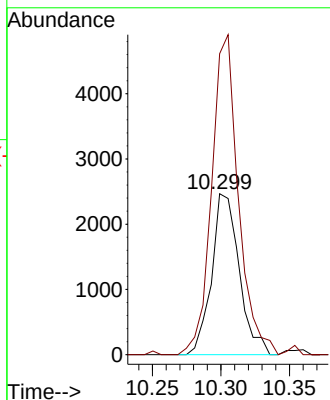
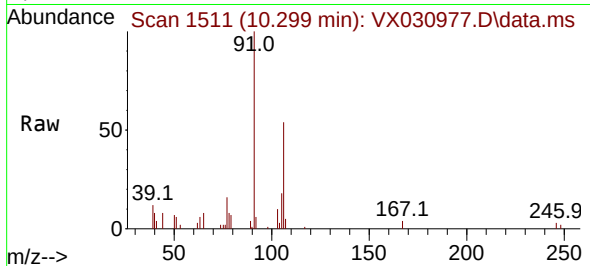




#68
m/p-Xylenes
Concen: 0.666 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.006 min
Lab File: VX030977.D
Acq: 31 Aug 2022 14:46

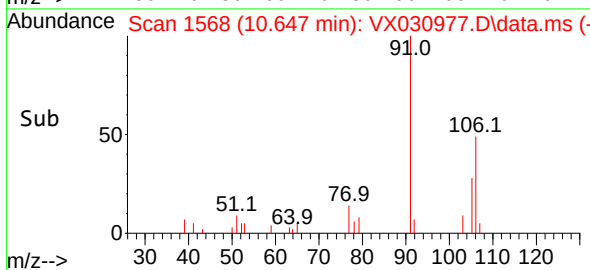
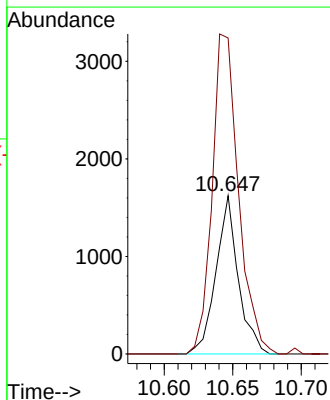
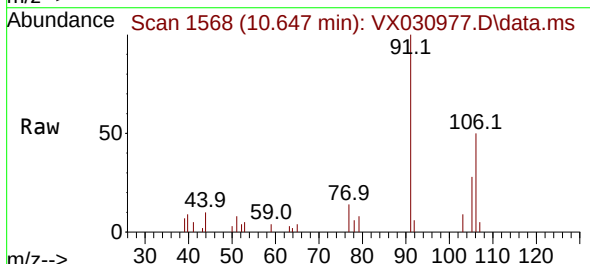
Instrument :
MSVOA_X
ClientSampleId :
MW-34

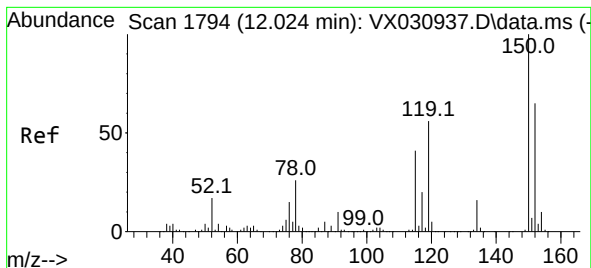
Tgt Ion:106 Resp: 3445
Ion Ratio Lower Upper
106 100
91 193.7 158.2 237.4



#69
o-Xylene
Concen: 0.362 ug/l
RT: 10.647 min Scan# 1568
Delta R.T. 0.001 min
Lab File: VX030977.D
Acq: 31 Aug 2022 14:46

Tgt Ion:106 Resp: 1834
Ion Ratio Lower Upper
106 100
91 238.8 103.8 311.6

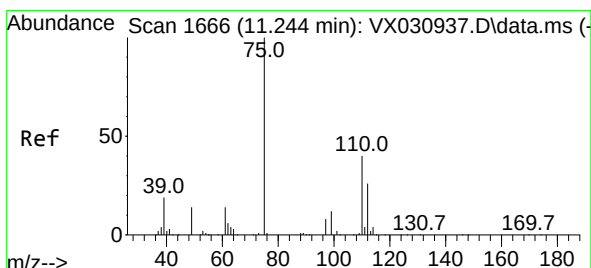
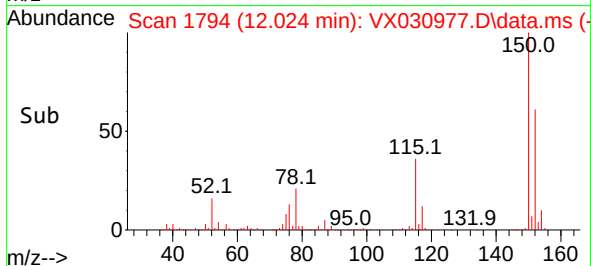
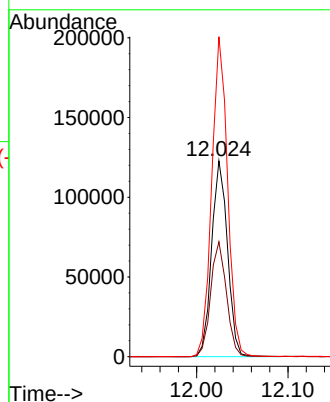
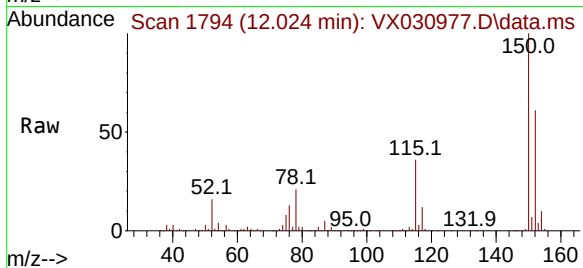




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.024 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: VX030977.D
 Acq: 31 Aug 2022 14:46

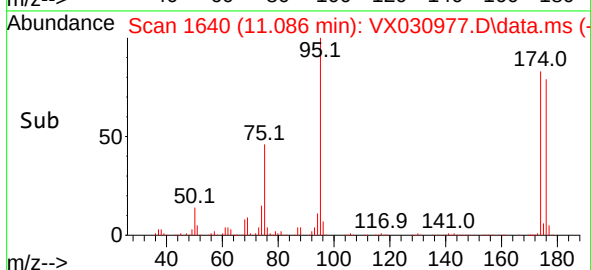
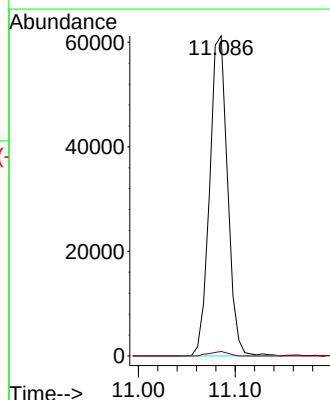
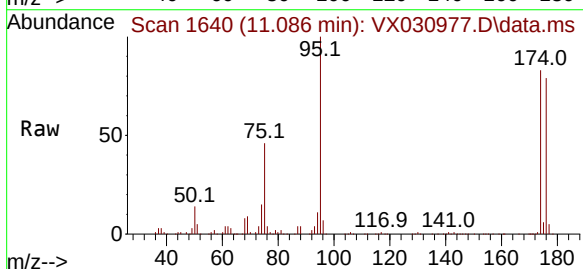
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-34

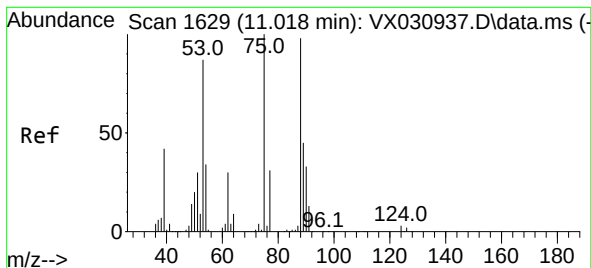
Tgt Ion:152 Resp: 147692
 Ion Ratio Lower Upper
 152 100
 115 58.5 40.5 121.5
 150 162.9 0.0 347.0



#76
 1,2,3-Trichloropropane
 Concen: 21.739 ug/l
 RT: 11.086 min Scan# 1640
 Delta R.T. -0.159 min
 Lab File: VX030977.D
 Acq: 31 Aug 2022 14:46

Tgt Ion: 75 Resp: 79042
 Ion Ratio Lower Upper
 75 100
 77 1.4 19.8 59.3#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 64.632 ug/l
 RT: 11.086 min Scan# 1
 Delta R.T. 0.062 min
 Lab File: VX030977.D
 Acq: 31 Aug 2022 14:46

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-34

Tgt Ion: 75 Resp: 79042
 Ion Ratio Lower Upper
 75 100
 53 0.0 74.2 111.4#
 89 0.1 34.8 52.2#

