

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032923\
 Data File : VX034834.D
 Acq On : 29 Mar 2023 17:31
 Operator : JC/MD
 Sample : 02084-04
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PMW-2

Quant Time: Mar 30 06:32:36 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032923W.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 30 05:38:28 2023
 Response via : Initial Calibration

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

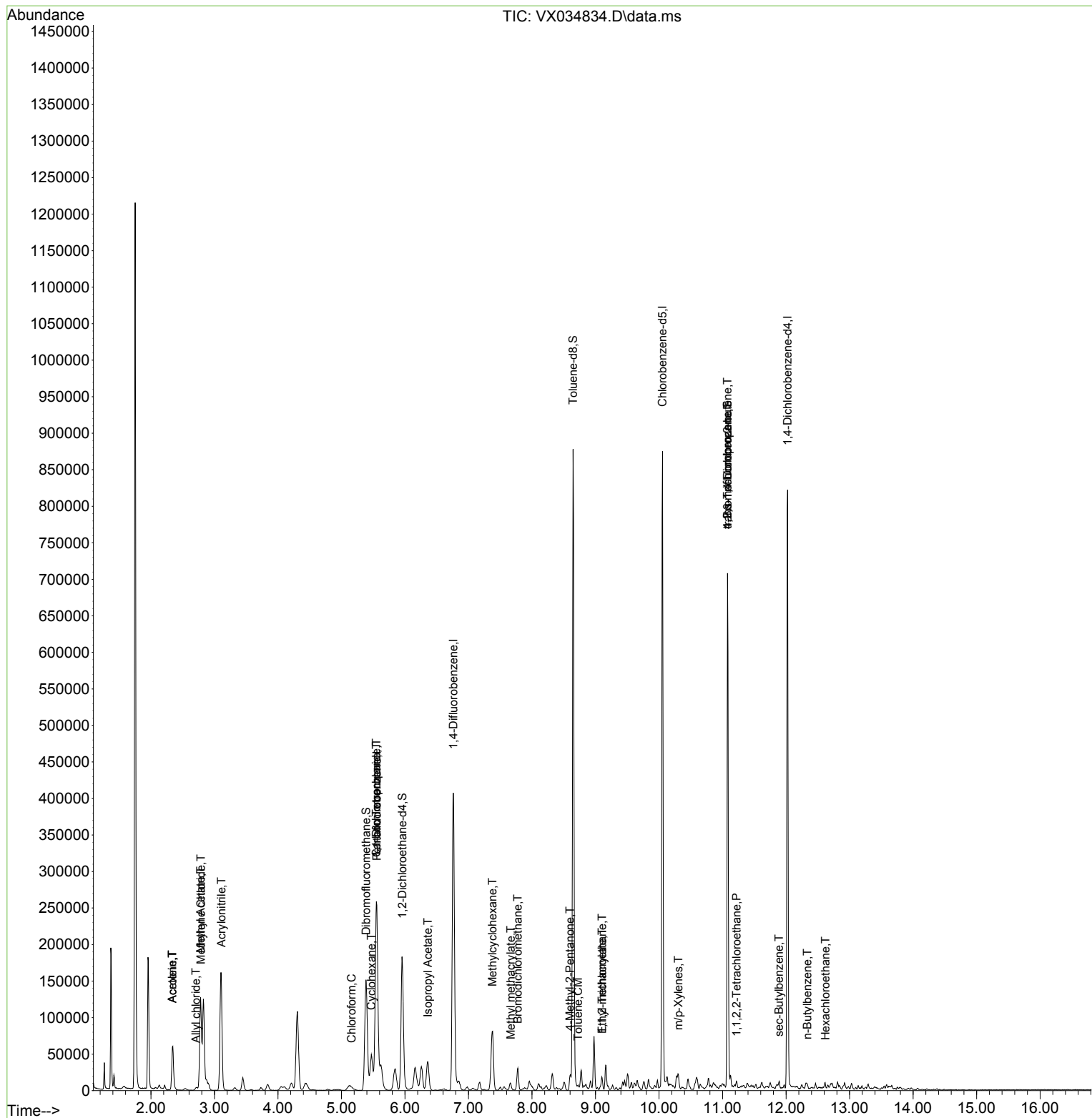
Internal Standards						
1) Pentafluorobenzene	5.556	168	242180	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	411224	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	368653	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	164474	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	172380	46.541	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	93.080%		
35) Dibromofluoromethane	5.385	113	128474	47.234	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	94.460%		
50) Toluene-d8	8.646	98	493871	49.193	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	98.380%		
62) 4-Bromofluorobenzene	11.079	95	179976	46.326	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	92.660%		
Target Compounds					Qvalue	
13) Acrolein	2.337	56	8460	12.647	ug/l #	77
14) Allyl chloride	2.708	41	1880	0.386	ug/l #	67
15) Acrylonitrile	3.111	53	4086	2.793	ug/l #	35
16) Acetone	2.337	43	25318	16.827	ug/l #	53
18) Methyl Acetate	2.782	43	80665	15.089	ug/l #	53
20) Methylene Chloride	2.788	84	1236	0.416	ug/l #	1
30) Chloroform	5.159	83	1782	0.332	ug/l #	43
31) Cyclohexane	5.470	56	32721	7.255	ug/l #	94
36) 1,1-Dichloropropene	5.549	75	20075	4.982	ug/l #	51
38) Carbon Tetrachloride	5.549	117	25565	6.729	ug/l #	16
39) Methylcyclohexane	7.378	83	31264	7.306	ug/l #	85
43) Isopropyl Acetate	6.360	43	2112	0.300	ug/l #	62
47) Bromodichloromethane	7.775	83	1004	0.262	ug/l #	94
48) Methyl methacrylate	7.665	41	2696	0.779	ug/l #	61
51) 4-Methyl-2-Pentanone	8.598	43	869	0.208	ug/l #	37
52) Toluene	8.726	92	1793	0.238	ug/l	92
55) 1,1,2-Trichloroethane	9.104	97	5402	1.892	ug/l #	18
56) Ethyl methacrylate	9.104	69	1577	0.353	ug/l #	1
68) m/p-Xylenes	10.305	106	1872	0.353	ug/l	76
75) 1,1,2,2-Tetrachloroethane	11.219	83	859	0.218	ug/l #	28
76) 1,2,3-Trichloropropane	11.079	75	98316	26.267	ug/l #	34
81) trans-1,4-Dichloro-2-b...	11.079	75	98316	88.909	ug/l #	8
85) sec-Butylbenzene	11.890	105	4104	0.357	ug/l #	75
89) n-Butylbenzene	12.335	91	1681	0.201	ug/l #	64
90) Hexachloroethane	12.621	117	538	0.362	ug/l #	15

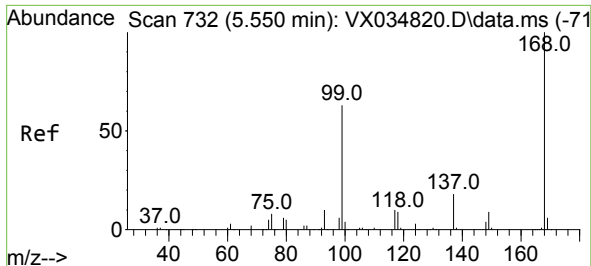
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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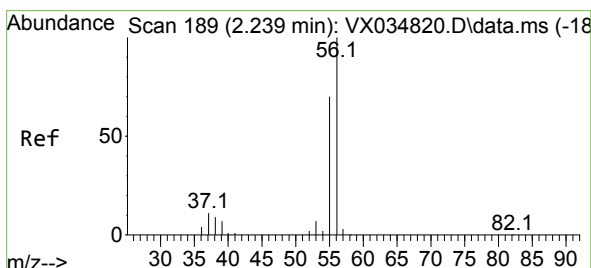
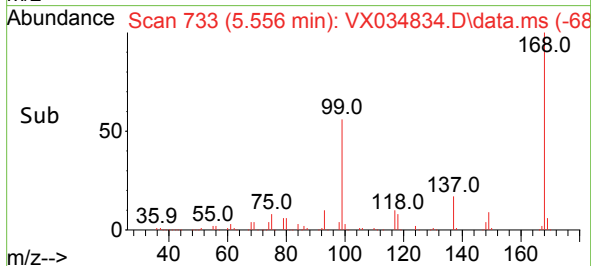
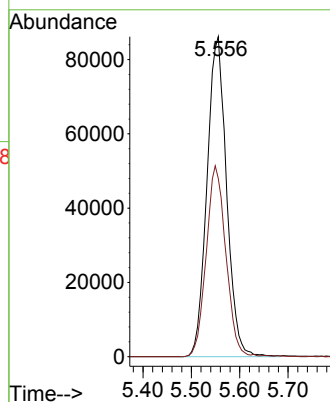
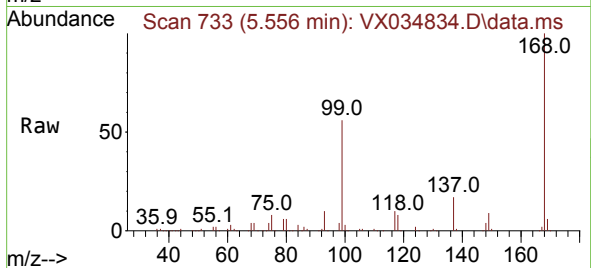




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 71
Delta R.T. 0.006 min
Lab File: VX034834.D
Acq: 29 Mar 2023 17:31

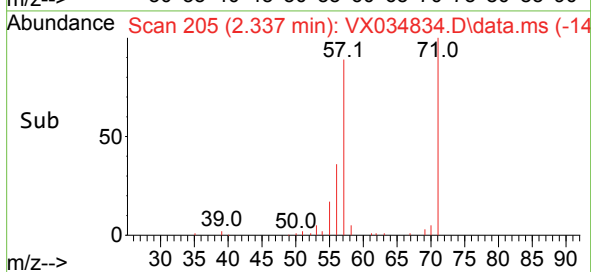
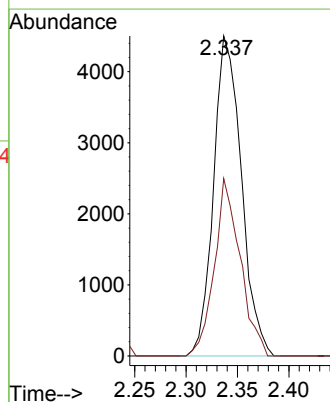
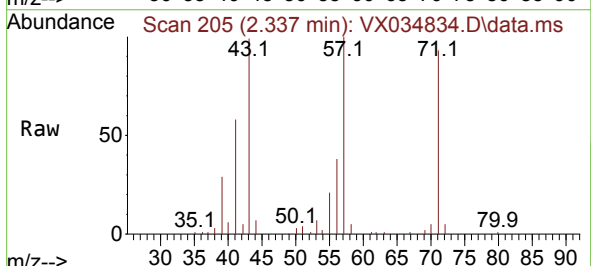
Instrument :
MSVOA_X
ClientSampleId :
PMW-2

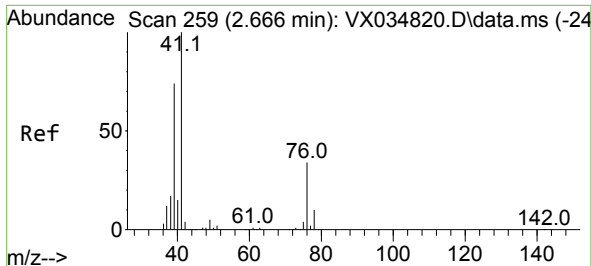
Tgt Ion:168 Resp: 242180
Ion Ratio Lower Upper
168 100
99 55.7 45.7 68.5



#13
Acrolein
Concen: 12.647 ug/l
RT: 2.337 min Scan# 205
Delta R.T. 0.097 min
Lab File: VX034834.D
Acq: 29 Mar 2023 17:31

Tgt Ion: 56 Resp: 8460
Ion Ratio Lower Upper
56 100
55 51.5 56.6 85.0#

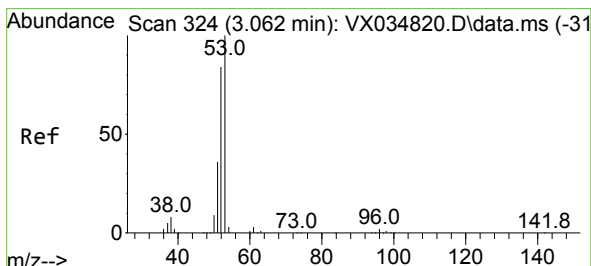
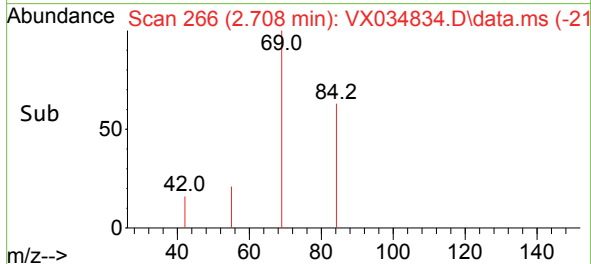
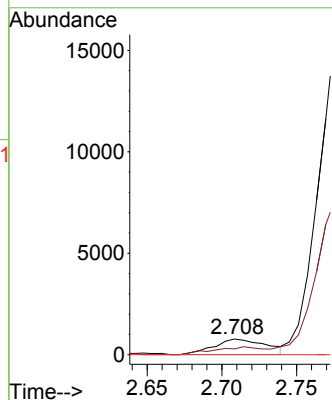
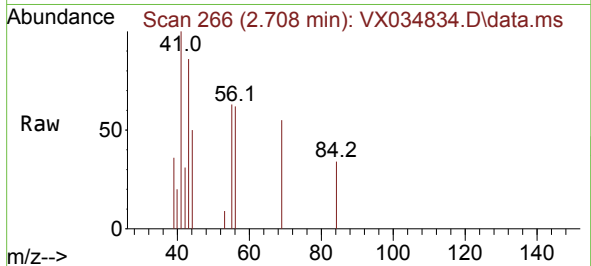




#14
 Allyl chloride
 Concen: 0.386 ug/l
 RT: 2.708 min Scan# 21
 Delta R.T. 0.042 min
 Lab File: VX034834.D
 Acq: 29 Mar 2023 17:31

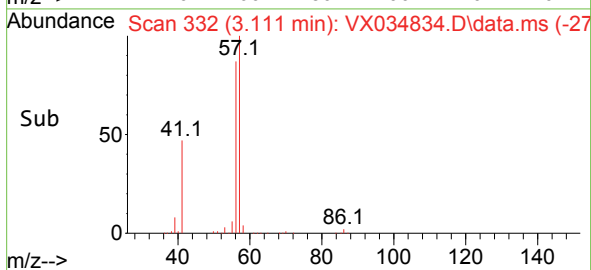
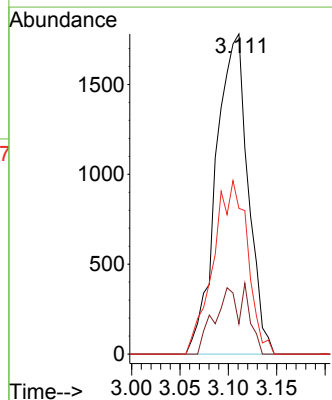
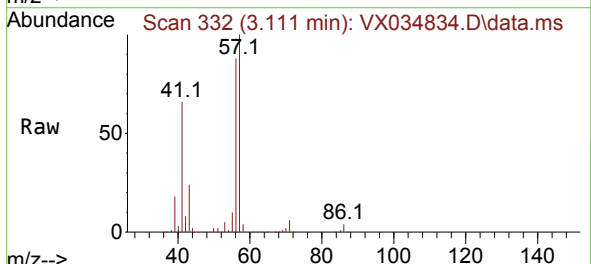
Instrument :
 MSVOA_X
 ClientSampleId :
 PMW-2

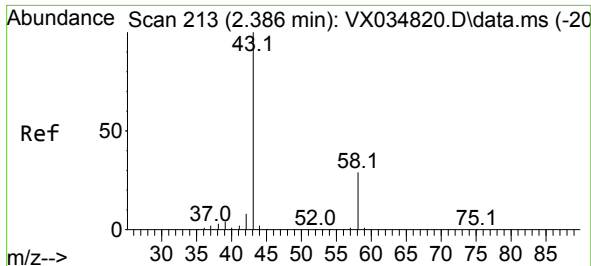
Tgt Ion: 41 Resp: 1880
 Ion Ratio Lower Upper
 41 100
 39 49.5 52.4 78.6#
 76 0.0 26.0 39.0#



#15
 Acrylonitrile
 Concen: 2.793 ug/l
 RT: 3.111 min Scan# 332
 Delta R.T. 0.048 min
 Lab File: VX034834.D
 Acq: 29 Mar 2023 17:31

Tgt Ion: 53 Resp: 4086
 Ion Ratio Lower Upper
 53 100
 52 14.7 66.2 99.2#
 51 58.3 28.3 42.5#

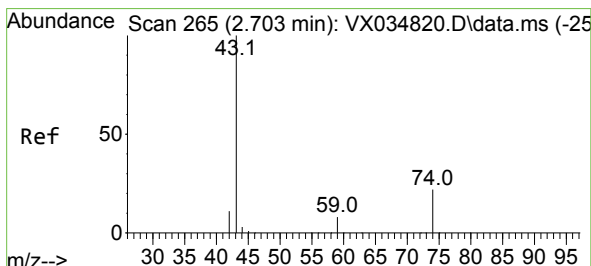
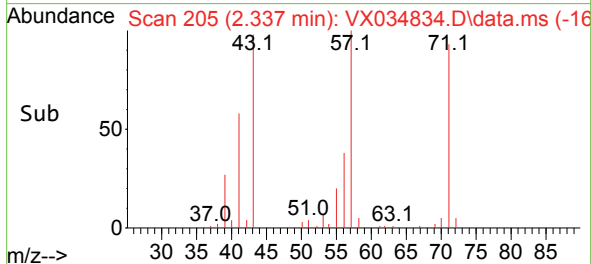
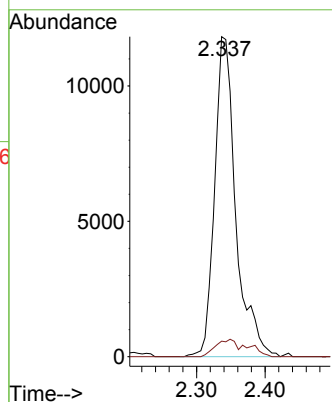
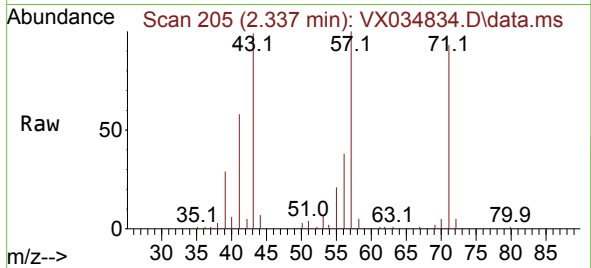




#16
Acetone
Concen: 16.827 ug/l
RT: 2.337 min Scan# 205
Delta R.T. -0.049 min
Lab File: VX034834.D
Acq: 29 Mar 2023 17:31

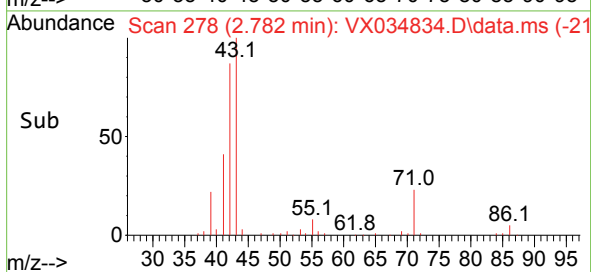
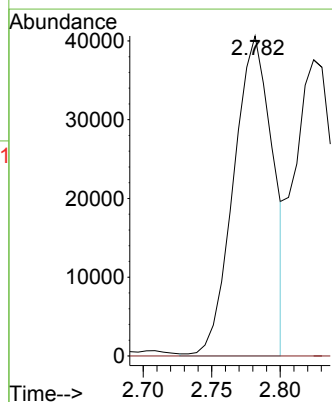
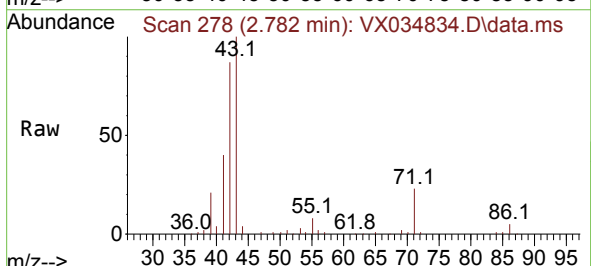
Instrument : MSVOA_X
ClientSampleId : PMW-2

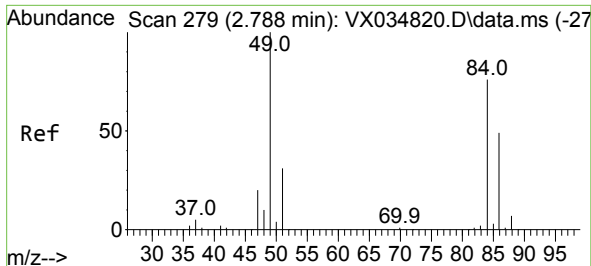
Tgt Ion: 43 Resp: 25318
Ion Ratio Lower Upper
43 100
58 4.8 24.7 37.1#



#18
Methyl Acetate
Concen: 15.089 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.079 min
Lab File: VX034834.D
Acq: 29 Mar 2023 17:31

Tgt Ion: 43 Resp: 80665
Ion Ratio Lower Upper
43 100
74 0.0 18.3 27.5#

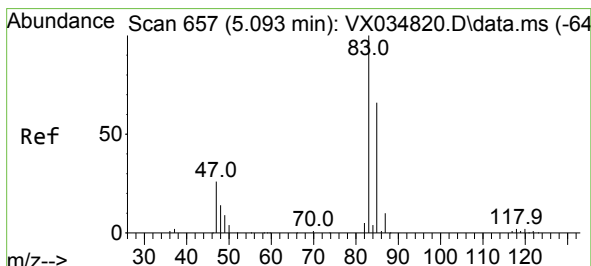
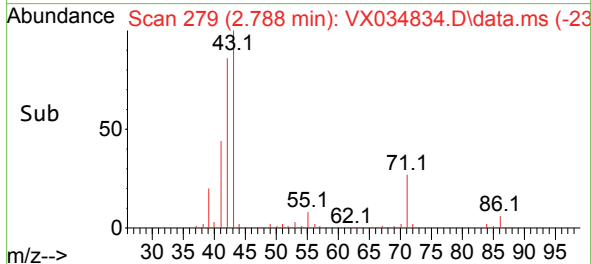
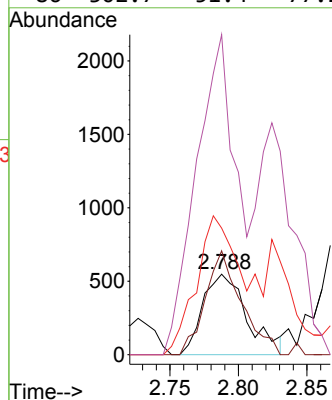
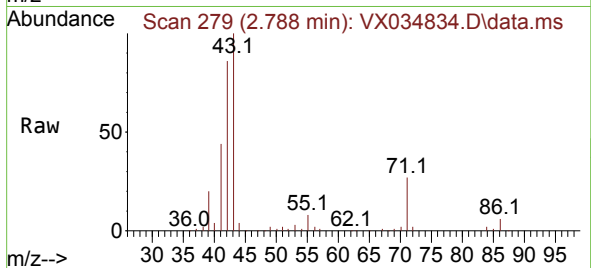




#20
Methylene Chloride
Concen: 0.416 ug/l
RT: 2.788 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX034834.D
Acq: 29 Mar 2023 17:31

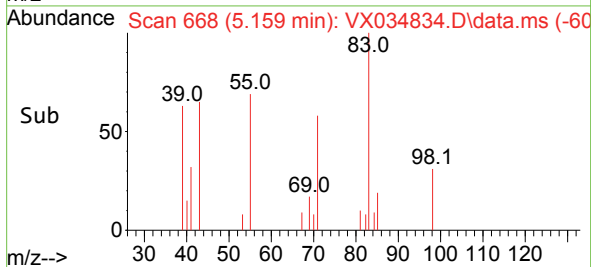
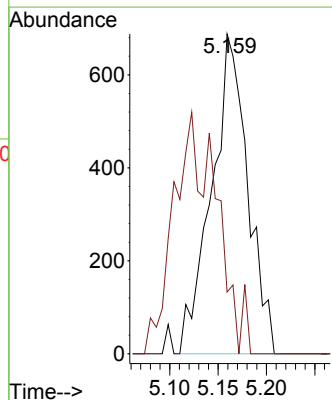
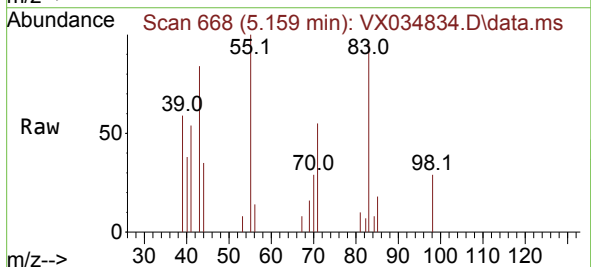
Instrument :
MSVOA_X
ClientSampleId :
PMW-2

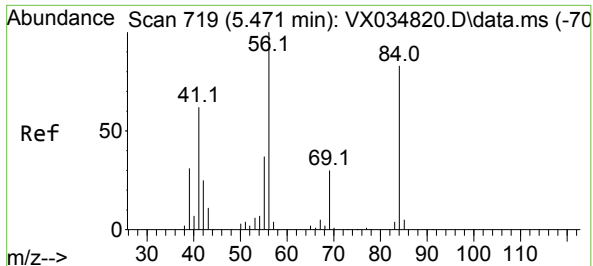
Tgt Ion: 84 Resp: 1236
Ion Ratio Lower Upper
84 100
49 129.0 103.8 155.8
51 124.1 31.8 47.8#
86 302.7 51.4 77.2#



#30
Chloroform
Concen: 0.332 ug/l
RT: 5.159 min Scan# 668
Delta R.T. 0.067 min
Lab File: VX034834.D
Acq: 29 Mar 2023 17:31

Tgt Ion: 83 Resp: 1782
Ion Ratio Lower Upper
83 100
85 19.3 50.6 76.0#

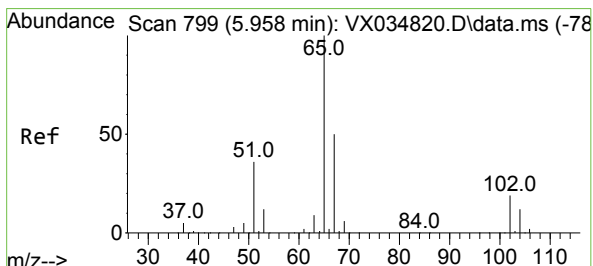
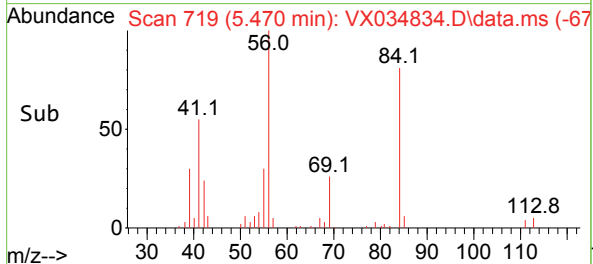
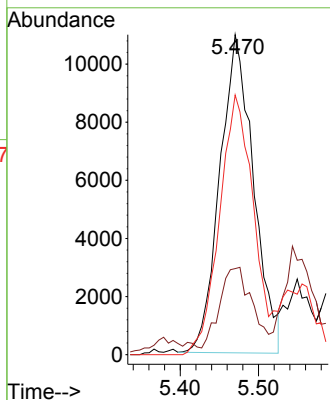
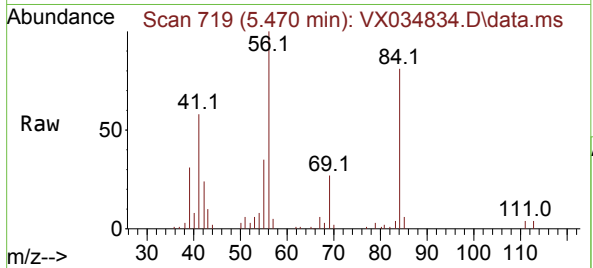




#31
Cyclohexane
Concen: 7.255 ug/l
RT: 5.470 min Scan# 719
Delta R.T. -0.000 min
Lab File: VX034834.D
Acq: 29 Mar 2023 17:31

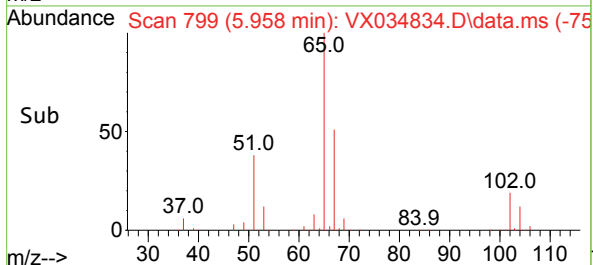
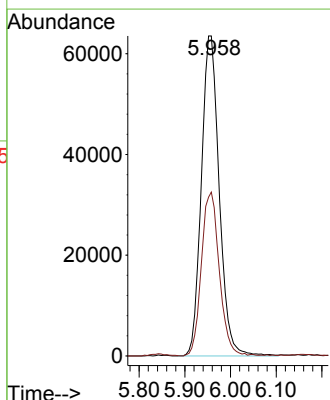
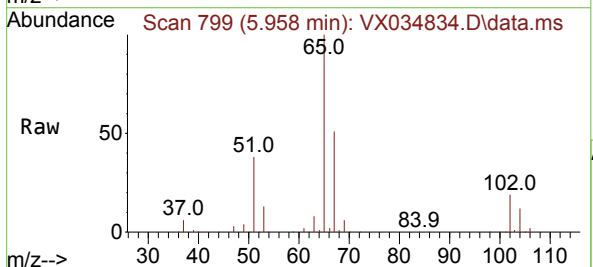
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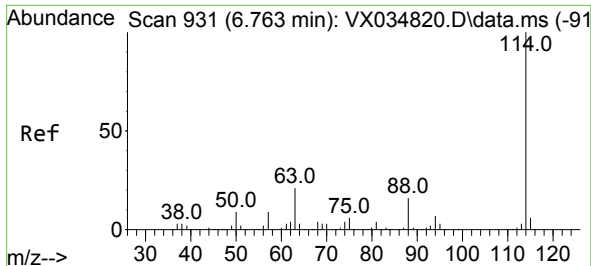
Tgt Ion: 56 Resp: 32721
Ion Ratio Lower Upper
56 100
69 23.6 23.7 35.5#
84 81.8 68.5 102.7



#33
1,2-Dichloroethane-d4
Concen: 46.541 ug/l
RT: 5.958 min Scan# 799
Delta R.T. -0.000 min
Lab File: VX034834.D
Acq: 29 Mar 2023 17:31

Tgt Ion: 65 Resp: 172380
Ion Ratio Lower Upper
65 100
67 51.4 0.0 104.0

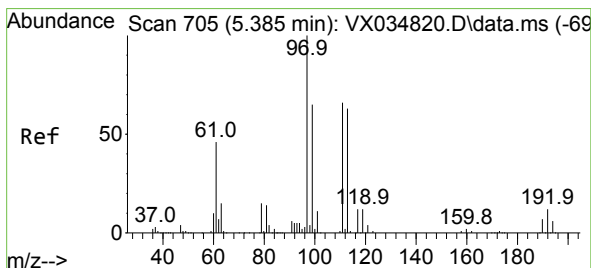
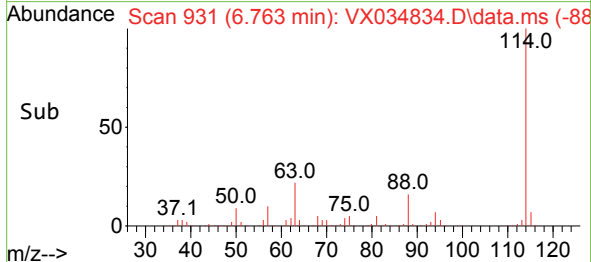
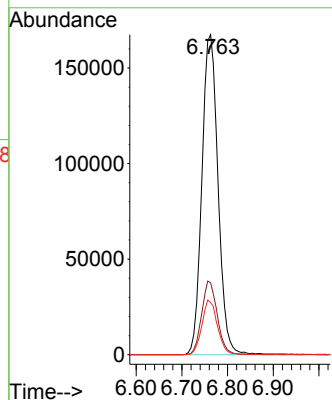
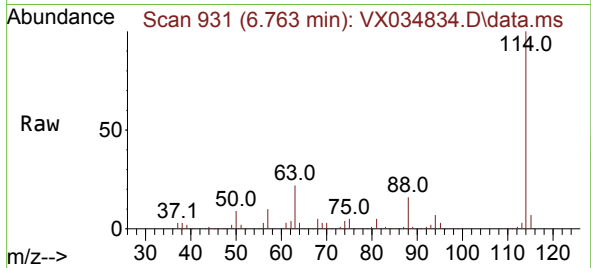




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 91
Delta R.T. -0.000 min
Lab File: VX034834.D
Acq: 29 Mar 2023 17:31

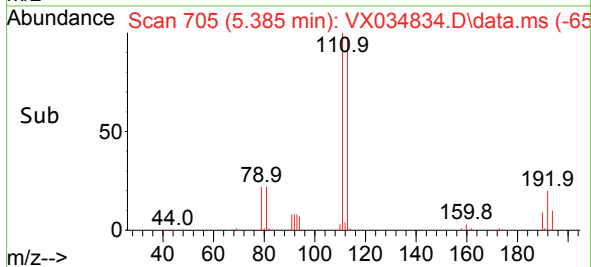
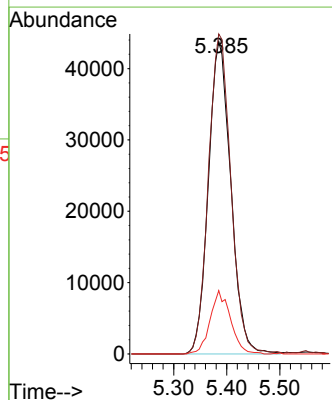
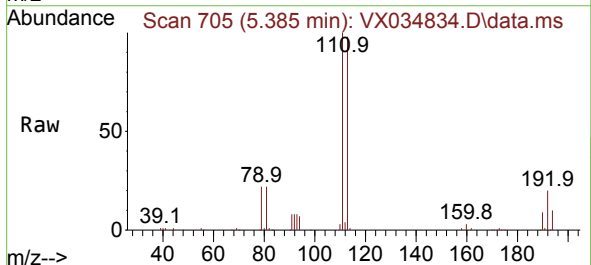
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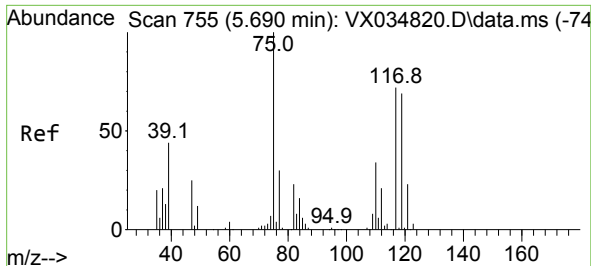
Tgt Ion:114 Resp: 411224
Ion Ratio Lower Upper
114 100
63 22.5 0.0 42.2
88 16.3 0.0 33.2



#35
Dibromofluoromethane
Concen: 47.234 ug/l
RT: 5.385 min Scan# 705
Delta R.T. -0.000 min
Lab File: VX034834.D
Acq: 29 Mar 2023 17:31

Tgt Ion:113 Resp: 128474
Ion Ratio Lower Upper
113 100
111 102.3 83.7 125.5
192 18.5 15.4 23.2

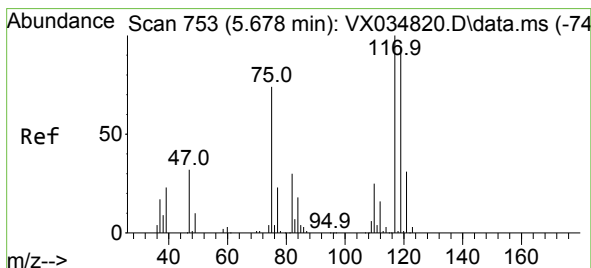
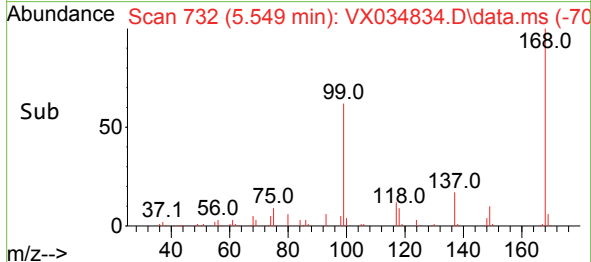
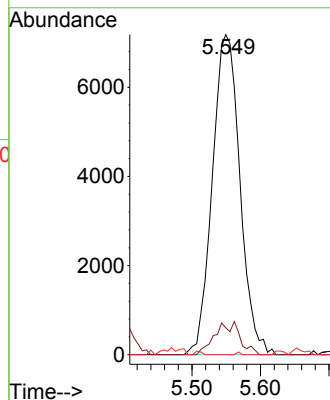
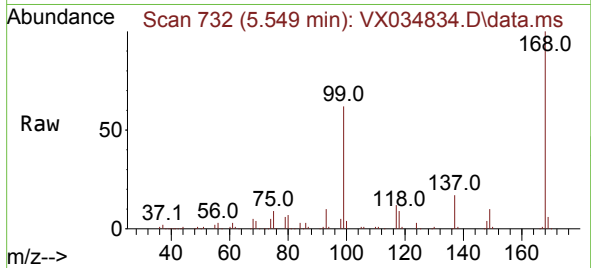




#36
1,1-Dichloropropene
Concen: 4.982 ug/l
RT: 5.549 min Scan# 712
Delta R.T. -0.141 min
Lab File: VX034834.D
Acq: 29 Mar 2023 17:31

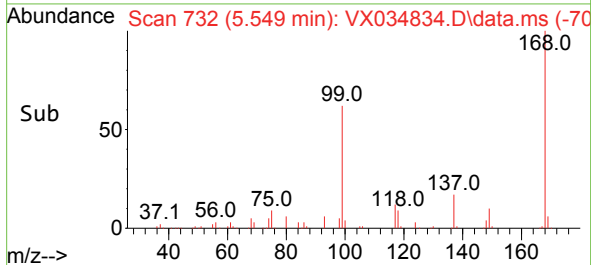
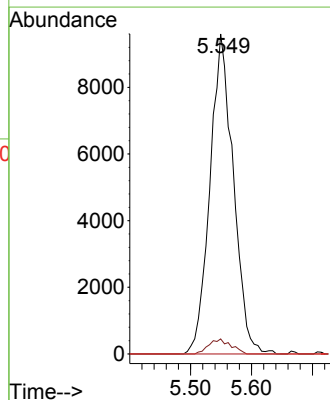
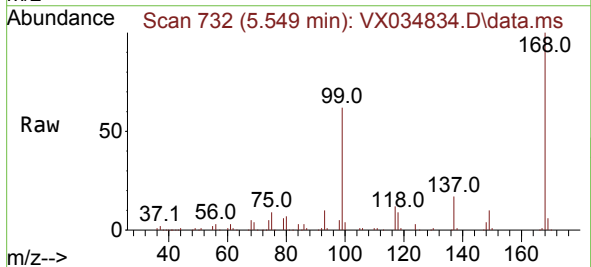
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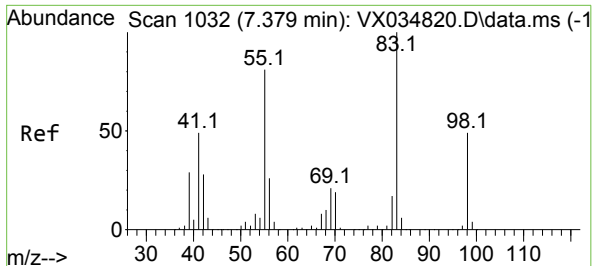
Tgt Ion: 75 Resp: 20075
Ion Ratio Lower Upper
75 100
110 9.3 17.5 52.5#
77 0.1 24.3 36.5#



#38
Carbon Tetrachloride
Concen: 6.729 ug/l
RT: 5.549 min Scan# 732
Delta R.T. -0.128 min
Lab File: VX034834.D
Acq: 29 Mar 2023 17:31

Tgt Ion: 117 Resp: 25565
Ion Ratio Lower Upper
117 100
119 4.7 76.6 114.8#
121 0.0 23.8 35.6#





#39

Methylcyclohexane

Concen: 7.306 ug/l

RT: 7.378 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX034834.D

Acq: 29 Mar 2023 17:31

Instrument :

MSVOA_X

ClientSampleId :

PMW-2

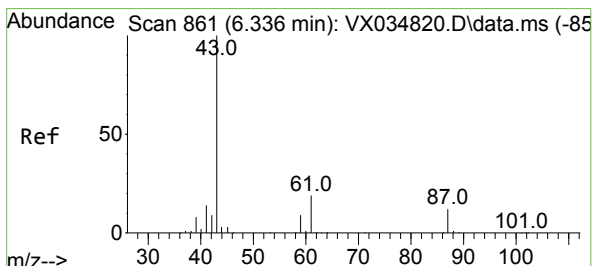
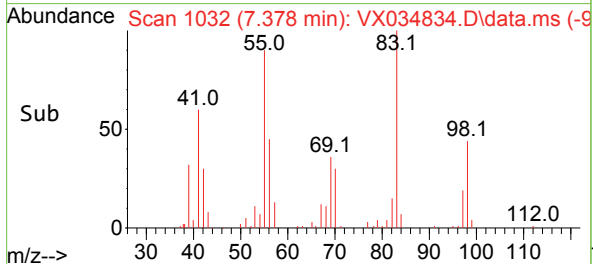
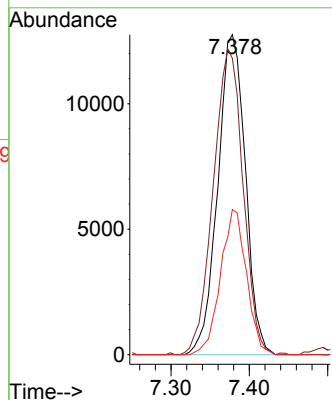
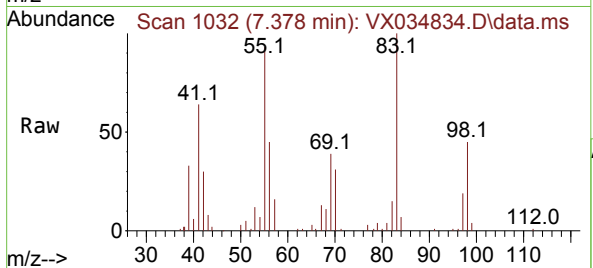
Tgt Ion: 83 Resp: 31264

Ion Ratio Lower Upper

83 100

55 92.6 60.5 90.7#

98 45.4 40.4 60.6



#43

Isopropyl Acetate

Concen: 0.300 ug/l

RT: 6.360 min Scan# 865

Delta R.T. 0.024 min

Lab File: VX034834.D

Acq: 29 Mar 2023 17:31

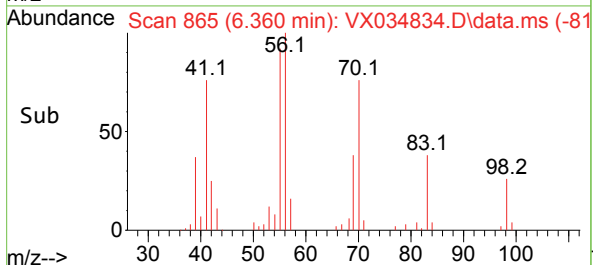
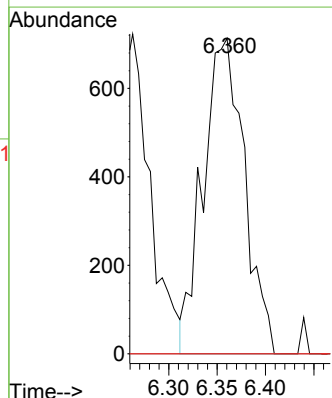
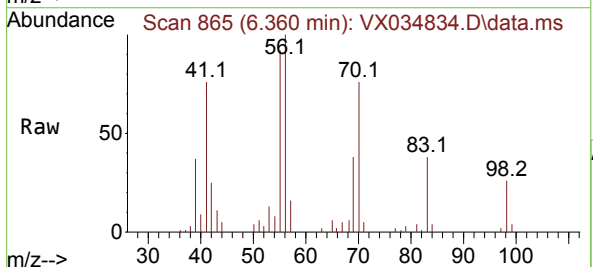
Tgt Ion: 43 Resp: 2112

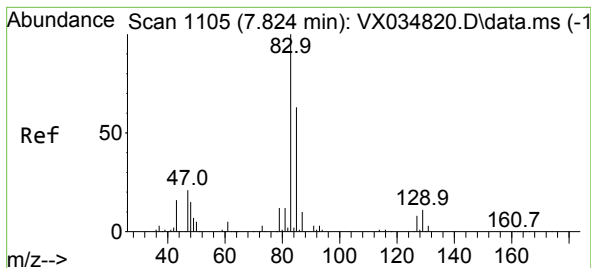
Ion Ratio Lower Upper

43 100

61 0.0 15.2 22.8#

87 0.0 9.8 14.8#





#47

Bromodichloromethane

Concen: 0.262 ug/l

RT: 7.775 min Scan# 1097

Delta R.T. -0.049 min

Lab File: VX034834.D

Acq: 29 Mar 2023 17:31

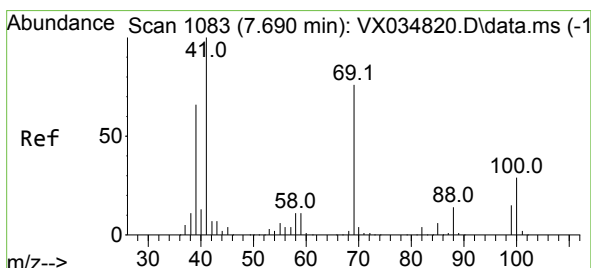
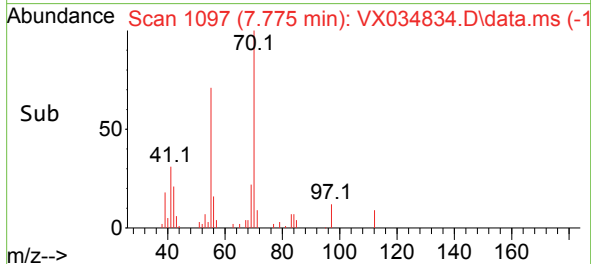
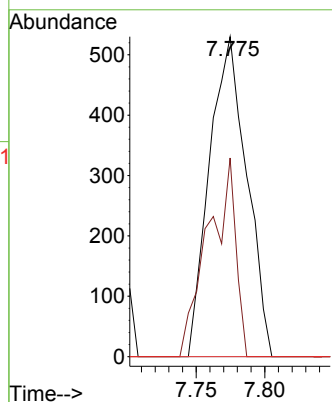
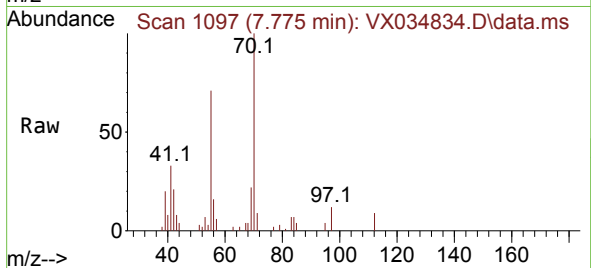
Instrument :

MSVOA_X

ClientSampleId :

PMW-2

Tgt Ion:	83	Resp:	1004
Ion	Ratio	Lower	Upper
83	100		
85	62.1	52.2	78.4
127	0.0	6.6	9.8#



#48

Methyl methacrylate

Concen: 0.779 ug/l

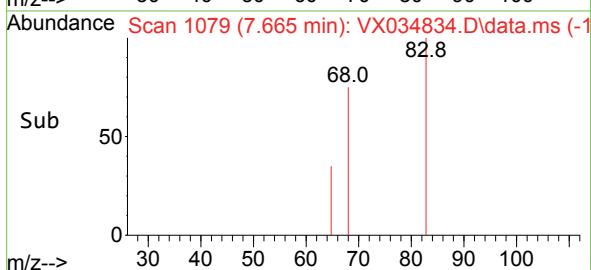
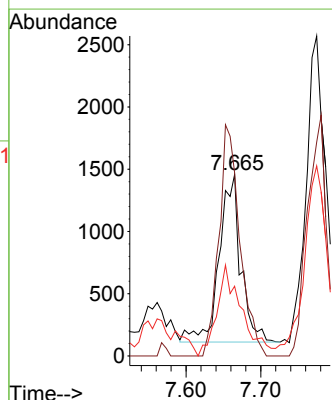
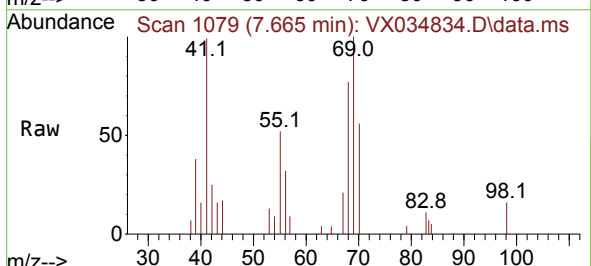
RT: 7.665 min Scan# 1079

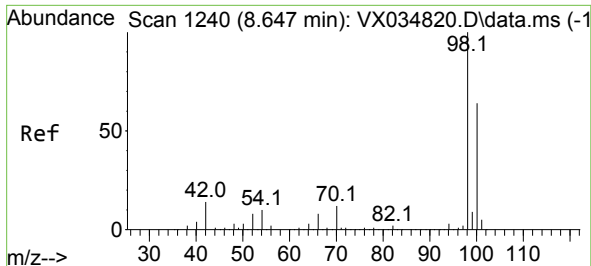
Delta R.T. -0.025 min

Lab File: VX034834.D

Acq: 29 Mar 2023 17:31

Tgt Ion:	41	Resp:	2696
Ion	Ratio	Lower	Upper
41	100		
69	134.7	62.2	93.4#
39	62.9	47.7	71.5

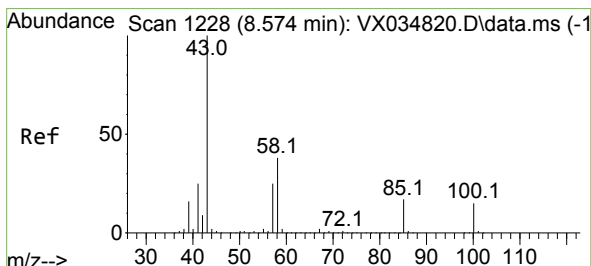
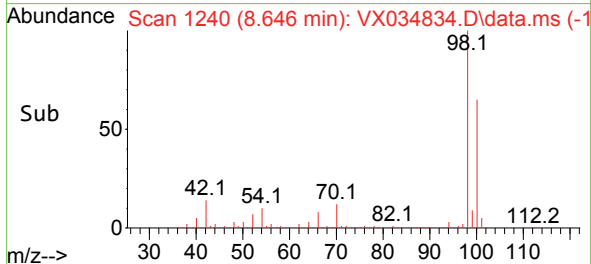
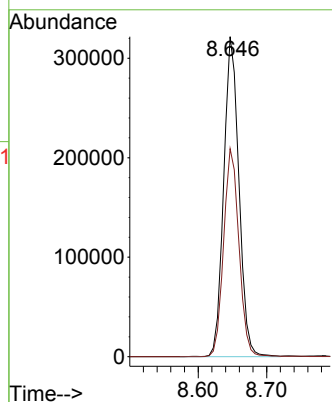
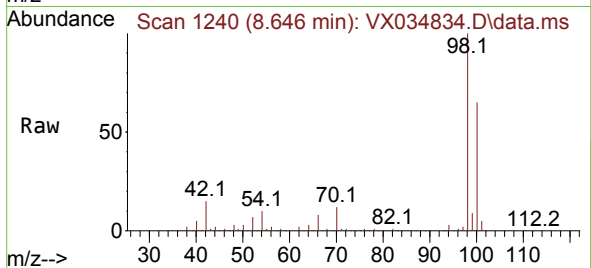




#50
Toluene-d8
Concen: 49.193 ug/l
RT: 8.646 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX034834.D
Acq: 29 Mar 2023 17:31

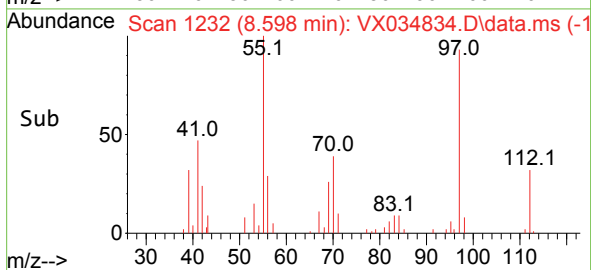
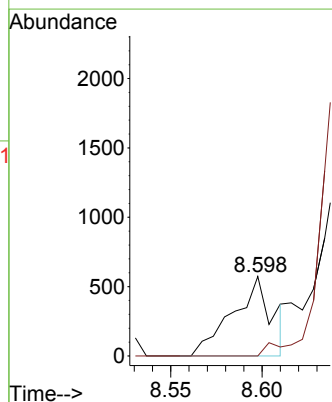
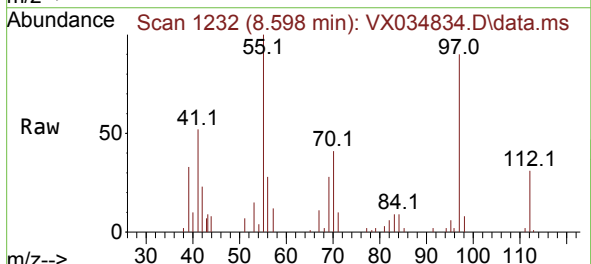
Instrument :
MSVOA_X
ClientSampleId :
PMW-2

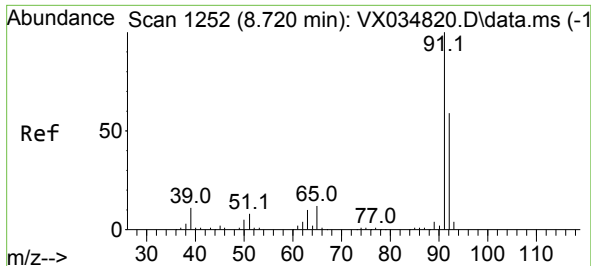
Tgt Ion: 98 Resp: 493871
Ion Ratio Lower Upper
98 100
100 65.4 52.5 78.7



#51
4-Methyl-2-Pentanone
Concen: 0.208 ug/l
RT: 8.598 min Scan# 1232
Delta R.T. 0.024 min
Lab File: VX034834.D
Acq: 29 Mar 2023 17:31

Tgt Ion: 43 Resp: 869
Ion Ratio Lower Upper
43 100
58 0.0 30.6 46.0#

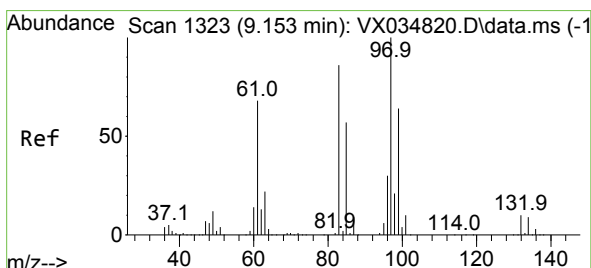
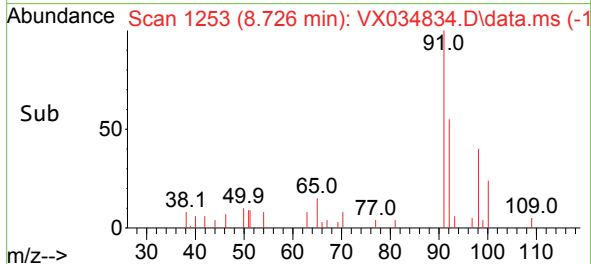
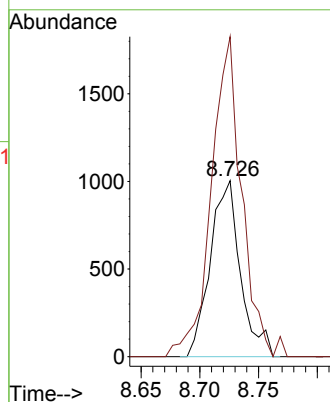
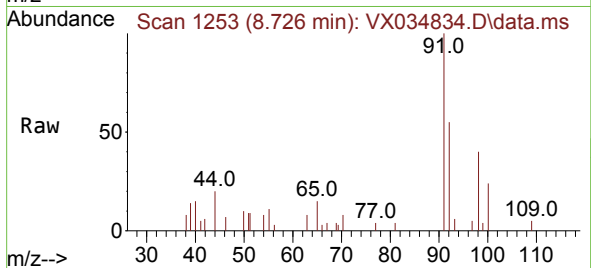




#52
Toluene
Concen: 0.238 ug/l
RT: 8.726 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX034834.D
Acq: 29 Mar 2023 17:31

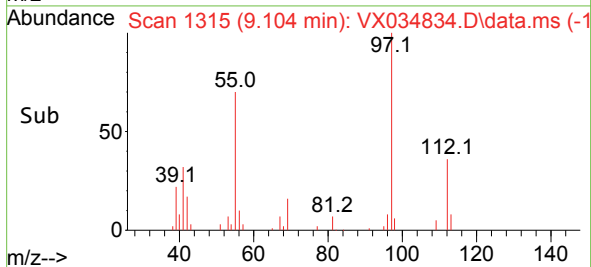
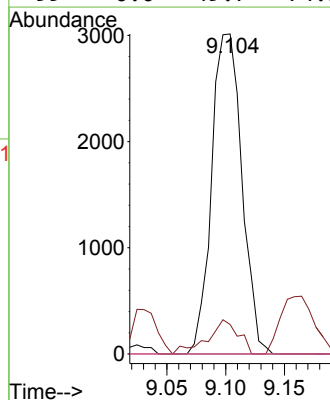
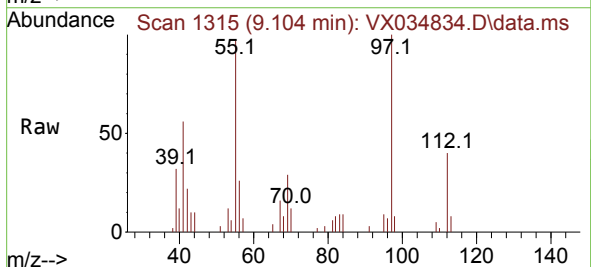
Instrument :
MSVOA_X
ClientSampleId :
PMW-2

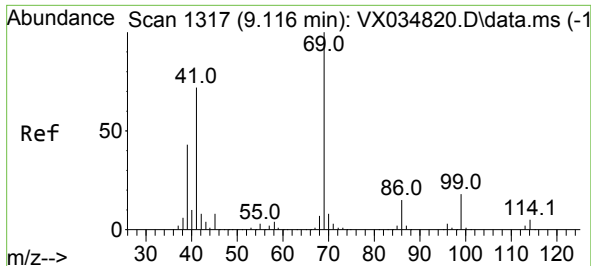
Tgt Ion: 92 Resp: 1793
Ion Ratio Lower Upper
92 100
91 181.4 136.8 205.2



#55
1,1,2-Trichloroethane
Concen: 1.892 ug/l
RT: 9.104 min Scan# 1315
Delta R.T. -0.049 min
Lab File: VX034834.D
Acq: 29 Mar 2023 17:31

Tgt Ion: 97 Resp: 5402
Ion Ratio Lower Upper
97 100
83 6.8 69.7 104.5#
85 0.0 43.7 65.5#
99 0.0 49.7 74.5#

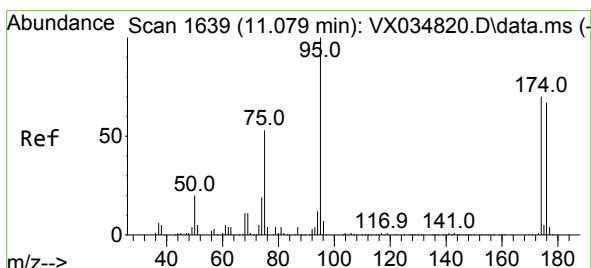
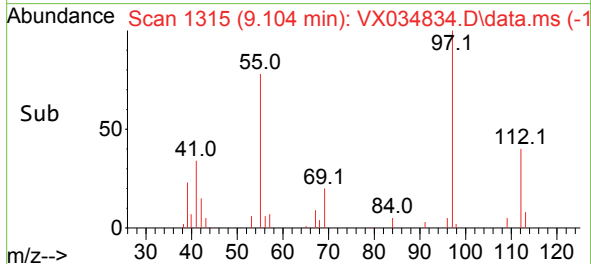
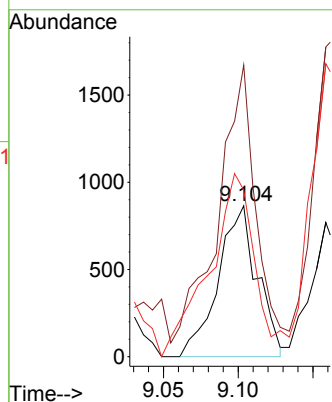
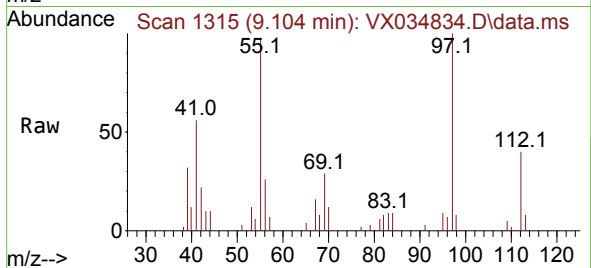




#56
Ethyl methacrylate
Concen: 0.353 ug/l
RT: 9.104 min Scan# 11
Delta R.T. -0.013 min
Lab File: VX034834.D
Acq: 29 Mar 2023 17:31

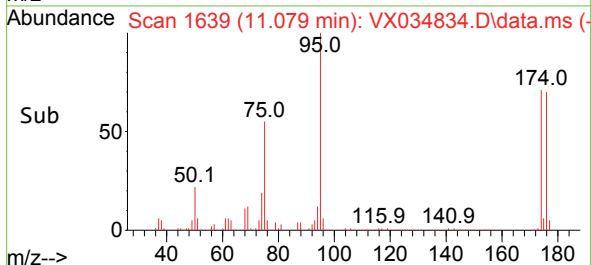
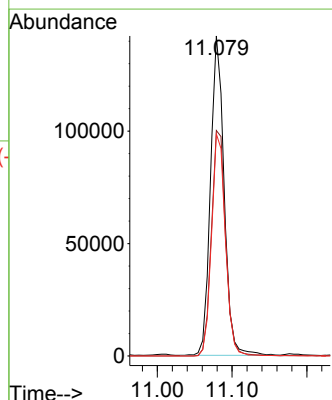
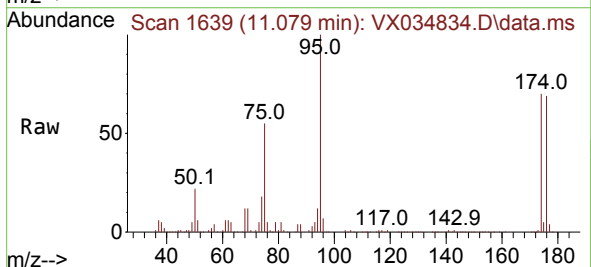
Instrument :
MSVOA_X
ClientSampleId :
PMW-2

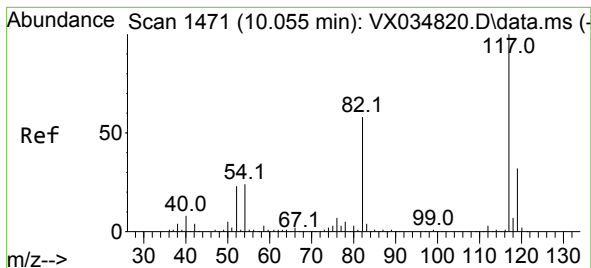
Tgt Ion: 69 Resp: 1577
Ion Ratio Lower Upper
69 100
41 172.9 57.4 86.0#
39 142.4 33.7 50.5#



#62
4-Bromofluorobenzene
Concen: 46.326 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX034834.D
Acq: 29 Mar 2023 17:31

Tgt Ion: 95 Resp: 179976
Ion Ratio Lower Upper
95 100
174 73.9 0.0 147.4
176 70.9 0.0 140.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. -0.000 min

Lab File: VX034834.D

Acq: 29 Mar 2023 17:31

Instrument :

MSVOA_X

ClientSampleId :

PMW-2

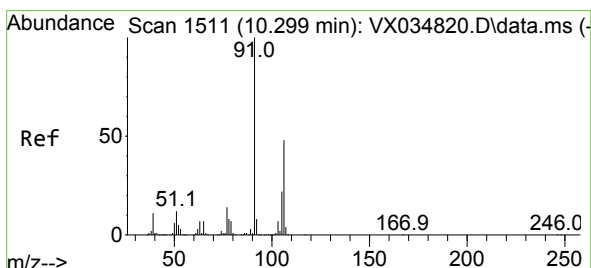
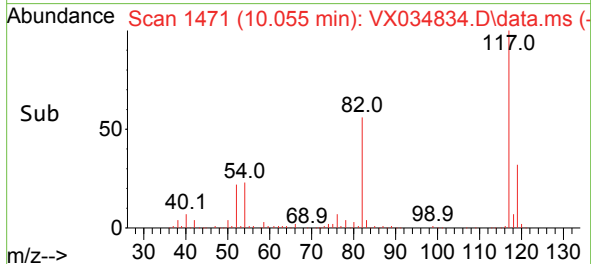
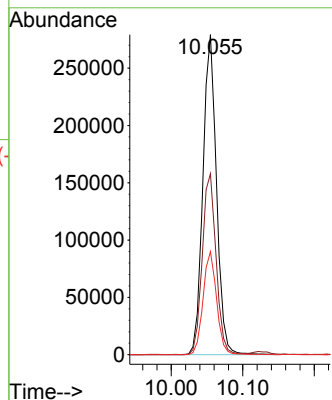
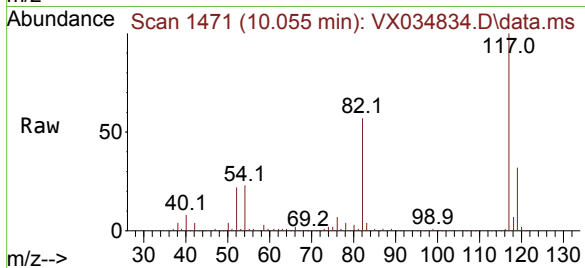
Tgt Ion:117 Resp: 368653

Ion Ratio Lower Upper

117 100

82 56.5 45.0 67.4

119 32.2 26.0 39.0



#68

m/p-Xylenes

Concen: 0.353 ug/l

RT: 10.305 min Scan# 1512

Delta R.T. 0.006 min

Lab File: VX034834.D

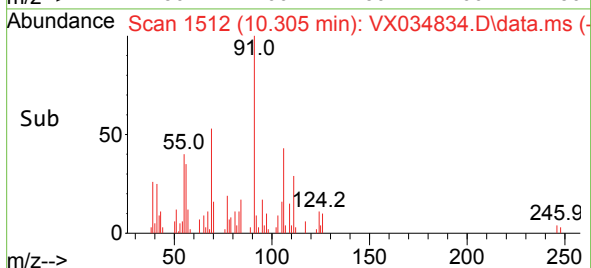
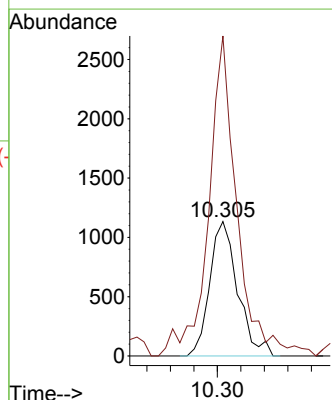
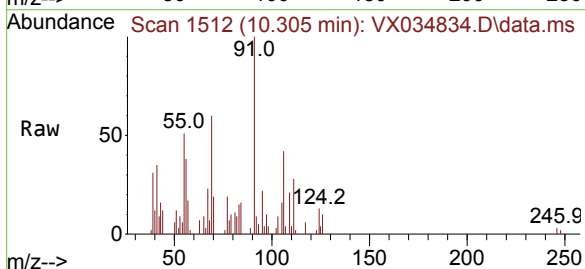
Acq: 29 Mar 2023 17:31

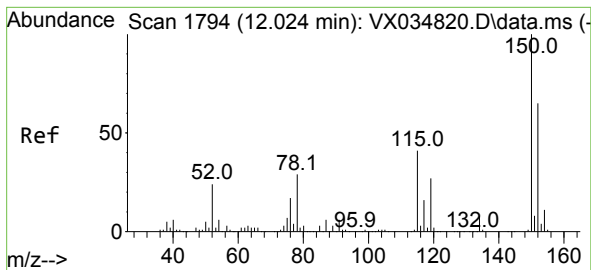
Tgt Ion:106 Resp: 1872

Ion Ratio Lower Upper

106 100

91 242.3 164.0 246.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX034834.D

Acq: 29 Mar 2023 17:31

Instrument :

MSVOA_X

ClientSampleId :

PMW-2

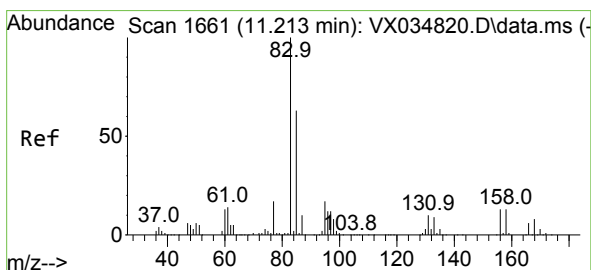
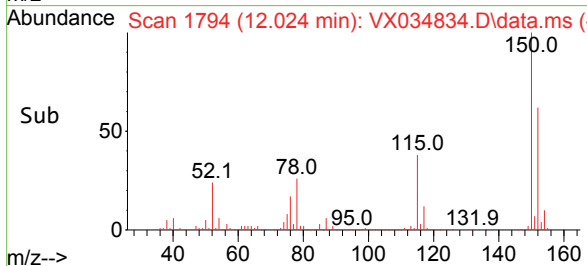
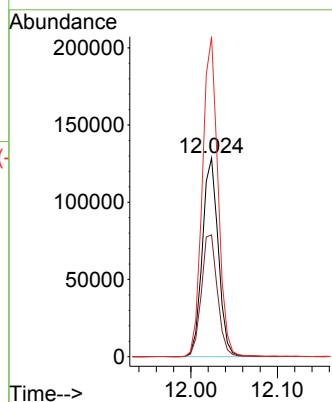
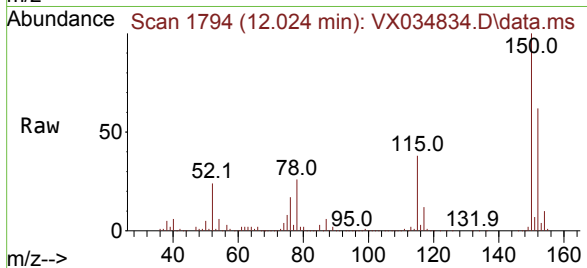
Tgt Ion:152 Resp: 164474

Ion Ratio Lower Upper

152 100

115 62.2 45.0 135.0

150 157.7 0.0 352.4



#75

1,1,2,2-Tetrachloroethane

Concen: 0.218 ug/l

RT: 11.219 min Scan# 1662

Delta R.T. 0.006 min

Lab File: VX034834.D

Acq: 29 Mar 2023 17:31

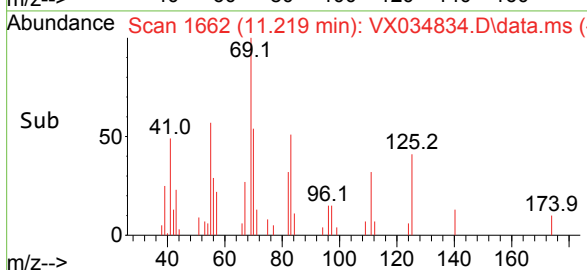
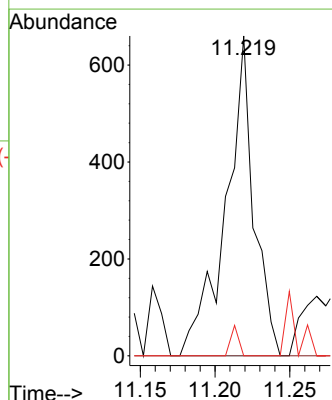
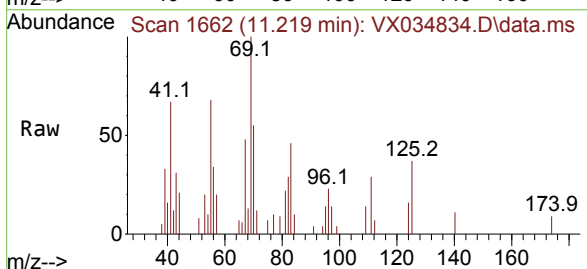
Tgt Ion: 83 Resp: 859

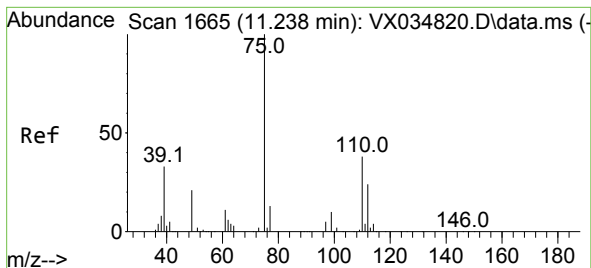
Ion Ratio Lower Upper

83 100

131 0.0 4.8 14.3#

85 2.7 32.0 96.0#





#76

1,2,3-Trichloropropane

Concen: 26.267 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.159 min

Lab File: VX034834.D

Acq: 29 Mar 2023 17:31

Instrument :

MSVOA_X

ClientSampleId :

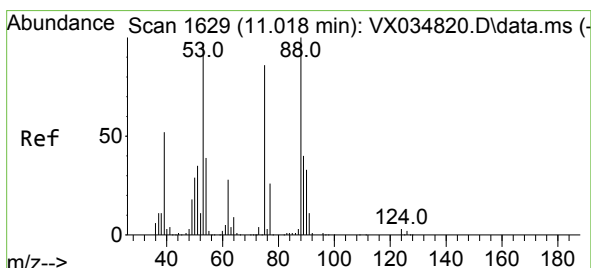
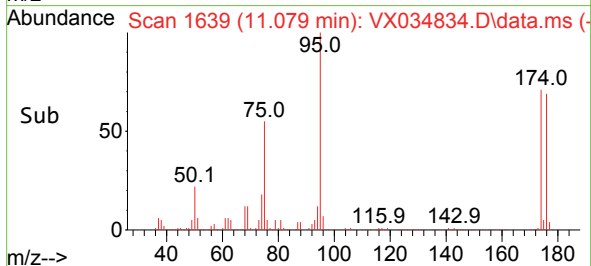
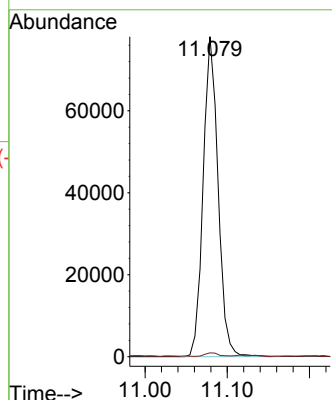
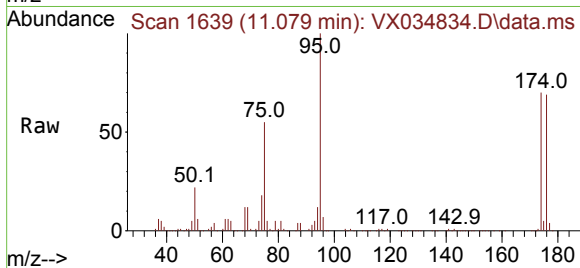
PMW-2

Tgt Ion: 75 Resp: 98316

Ion Ratio Lower Upper

75 100

77 1.0 21.6 64.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 88.909 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX034834.D

Acq: 29 Mar 2023 17:31

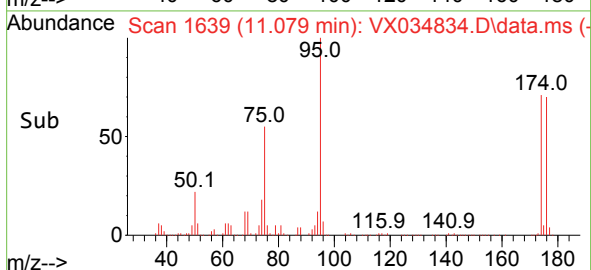
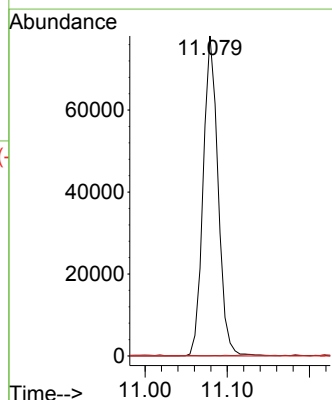
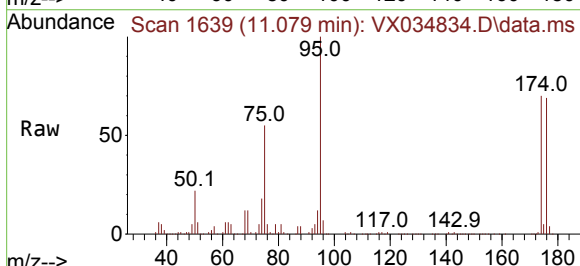
Tgt Ion: 75 Resp: 98316

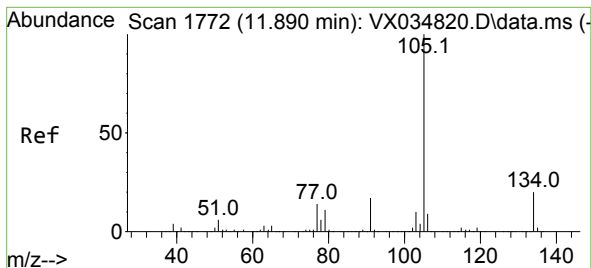
Ion Ratio Lower Upper

75 100

53 0.0 82.6 124.0#

89 0.0 36.9 55.3#





#85

sec-Butylbenzene

Concen: 0.357 ug/l

RT: 11.890 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX034834.D

Acq: 29 Mar 2023 17:31

Instrument :

MSVOA_X

ClientSampleId :

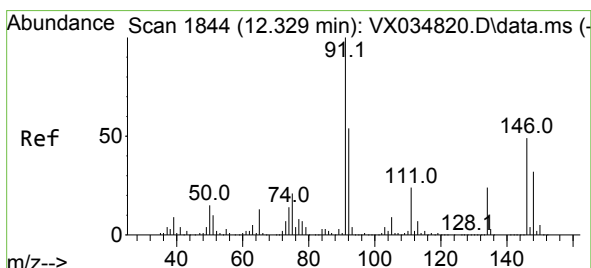
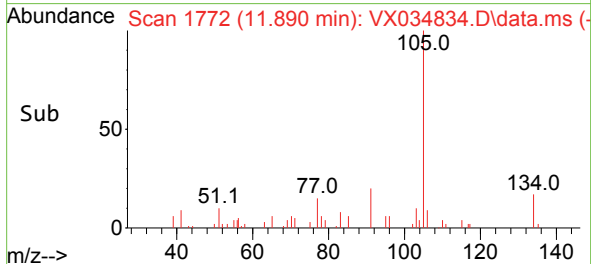
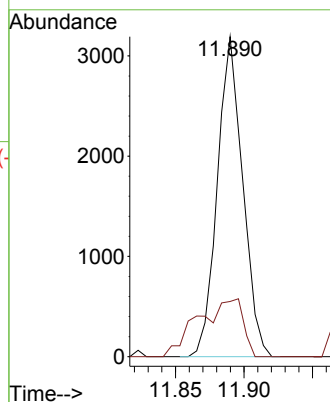
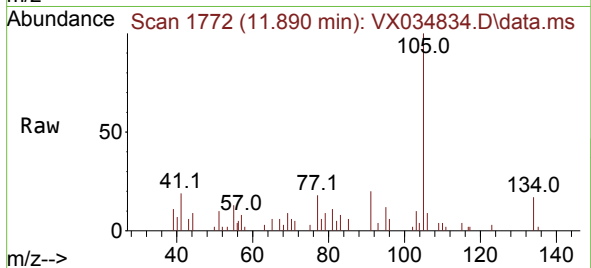
PMW-2

Tgt Ion:105 Resp: 4104

Ion Ratio Lower Upper

105 100

134 32.0 10.2 30.4#



#89

n-Butylbenzene

Concen: 0.201 ug/l

RT: 12.335 min Scan# 1845

Delta R.T. 0.006 min

Lab File: VX034834.D

Acq: 29 Mar 2023 17:31

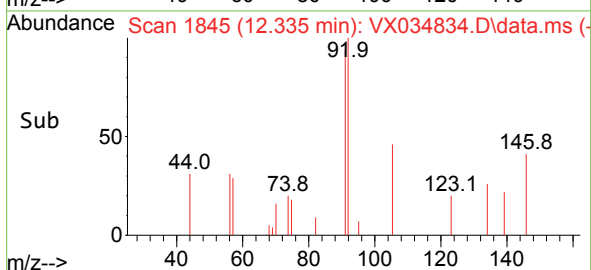
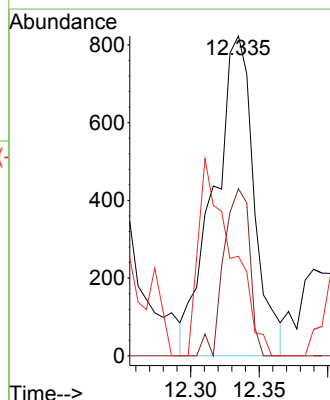
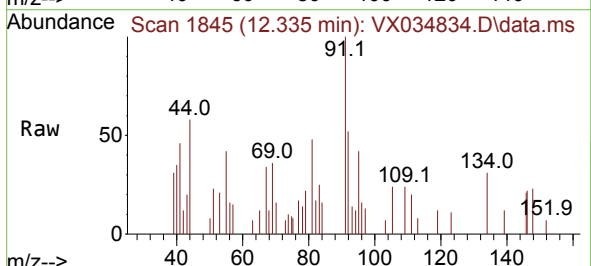
Tgt Ion: 91 Resp: 1681

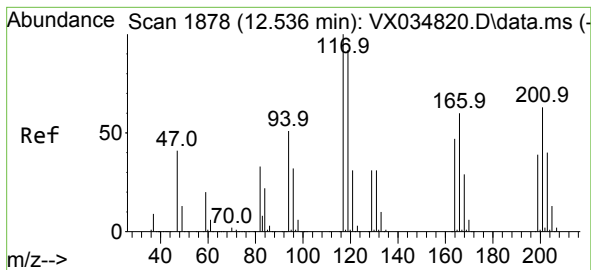
Ion Ratio Lower Upper

91 100

92 33.7 27.7 83.0

134 0.0 13.0 38.9#





#90
 Hexachloroethane
 Concen: 0.362 ug/l
 RT: 12.621 min Scan# 11
 Delta R.T. 0.085 min
 Lab File: VX034834.D
 Acq: 29 Mar 2023 17:31

Instrument :
 MSVOA_X
 ClientSampleId :
 PMW-2

Tgt Ion:117 Resp: 538
 Ion Ratio Lower Upper
 117 100
 201 0.0 34.4 103.1#

