

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101122\
 Data File : VX032069.D
 Acq On : 12 Oct 2022 08:11
 Operator : JC/MD
 Sample : N5066-09
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 B-4(11-12)

Quant Time: Oct 12 13:27:07 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100622W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 06 14:28:46 2022
 Response via : Initial Calibration

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

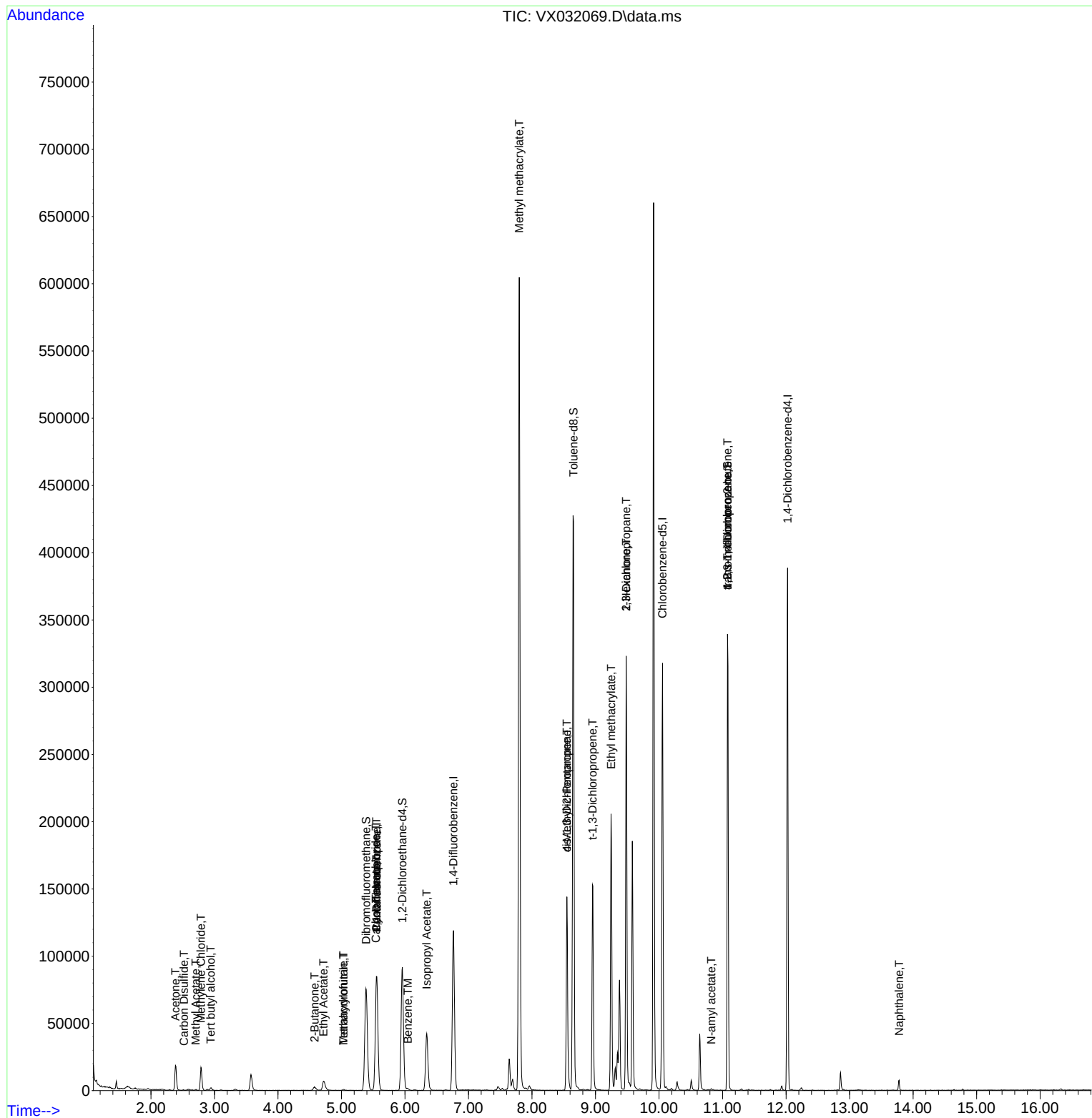
Internal Standards						
1) Pentafluorobenzene	5.556	168	77934	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	119121	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	130071	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	75386	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	85053	52.844	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 105.680%			
35) Dibromofluoromethane	5.385	113	65246	48.388	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 96.780%			
50) Toluene-d8	8.653	98	250445	51.617	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.240%			
62) 4-Bromofluorobenzene	11.079	95	84639	49.344	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 98.680%			
Target Compounds						Qvalue
5) Bromomethane	1.624	94	264	Below Cal		90
11) Tert butyl alcohol	2.940	59	1370	6.841 ug/l #		73
13) Acrolein	1.989	56	20	Below Cal #		15
16) Acetone	2.386	43	22227	40.634 ug/l		97
17) Carbon Disulfide	2.520	76	574	0.225 ug/l #		75
18) Methyl Acetate	2.703	43	883	0.489 ug/l #		82
20) Methylene Chloride	2.788	84	7305	5.082 ug/l		94
25) 2-Butanone	4.574	43	3174	3.712 ug/l #		68
29) Tetrahydrofuran	5.032	42	542	0.982 ug/l #		71
31) Cyclohexane	5.550	56	1914	0.995 ug/l #		5
36) 1,1-Dichloropropene	5.550	75	6732	3.765 ug/l #		50
37) Ethyl Acetate	4.715	43	13826	8.213 ug/l #		87
38) Carbon Tetrachloride	5.544	117	8796	4.811 ug/l #		15
40) Benzene	6.044	78	1551	0.296 ug/l		95
41) Methacrylonitrile	5.032	41	268	0.306 ug/l #		40
43) Isopropyl Acetate	6.342	43	57152	22.377 ug/l		99
48) Methyl methacrylate	7.799	41	53382	43.740 ug/l #		47
49) 1,4-Dioxane	7.793	88	60	Below Cal #		1
51) 4-Methyl-2-Pentanone	8.549	43	48659	28.749 ug/l #		50
53) t-1,3-Dichloropropene	8.952	75	302	1.367 ug/l #		44
54) cis-1,3-Dichloropropene	8.549	75	21336	11.437 ug/l #		71
56) Ethyl methacrylate	9.244	69	539	0.291 ug/l #		1
57) 1,3-Dichloropropane	9.482	76	2762	1.190 ug/l #		43
59) 2-Hexanone	9.482	43	36803	29.491 ug/l #		52
74) N-amyl acetate	10.823	43	633	0.365 ug/l #		43
76) 1,2,3-Trichloropropane	11.079	75	48267	31.240 ug/l #		37
81) trans-1,4-Dichloro-2-b...	11.079	75	48267	106.481 ug/l #		11
95) Naphthalene	13.780	128	4727	0.857 ug/l		98

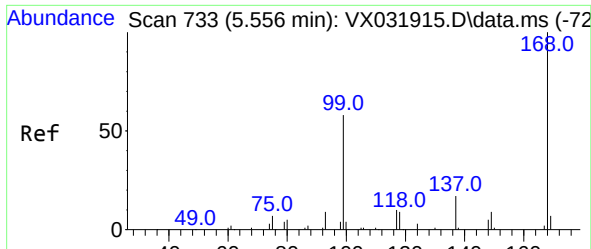
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Oct 06 14:28:46 2022
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX032069.D
Acq: 12 Oct 2022 08:11

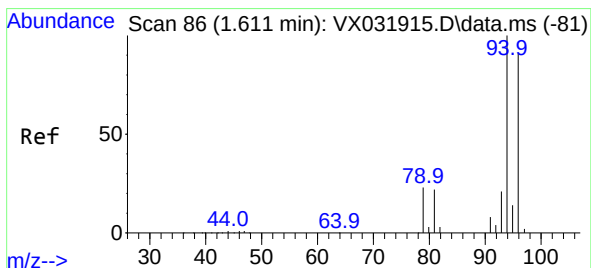
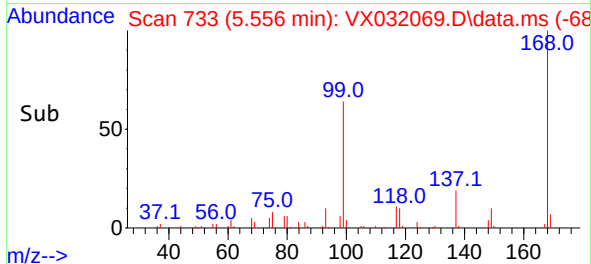
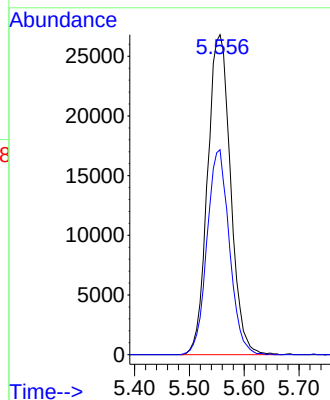
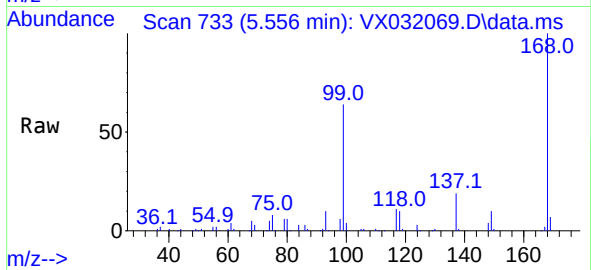
Instrument :

MSVOA_X

ClientSampleId :

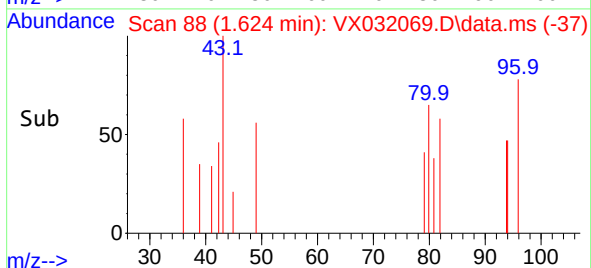
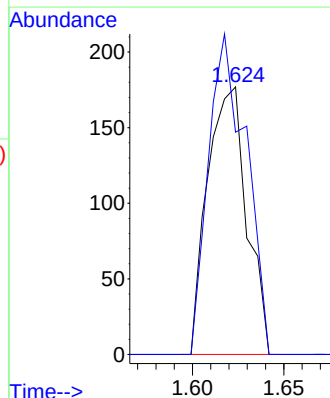
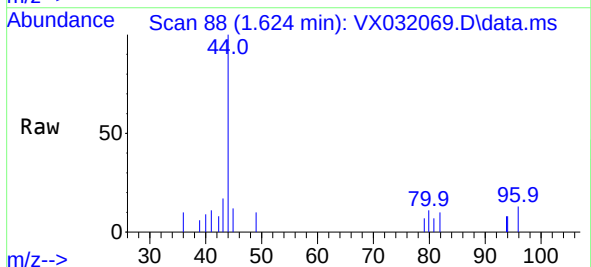
B-4(11-12)

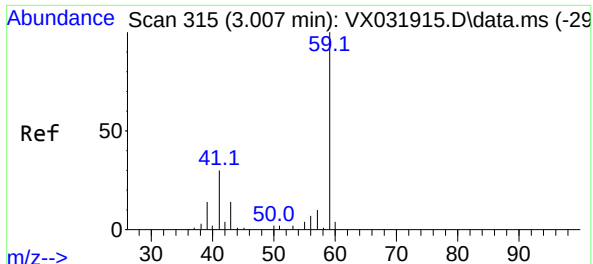
Tgt Ion:168 Resp: 77934
Ion Ratio Lower Upper
168 100
99 64.0 48.8 73.2



#5
Bromomethane
Concen: Below Cal
RT: 1.624 min Scan# 88
Delta R.T. 0.013 min
Lab File: VX032069.D
Acq: 12 Oct 2022 08:11

Tgt Ion: 94 Resp: 264
Ion Ratio Lower Upper
94 100
96 83.1 74.4 111.6





#11

Tert butyl alcohol

Concen: 6.841 ug/l

RT: 2.940 min Scan# 30

Delta R.T. -0.067 min

Lab File: VX032069.D

Acq: 12 Oct 2022 08:11

Instrument :

MSVOA_X

ClientSampleId :

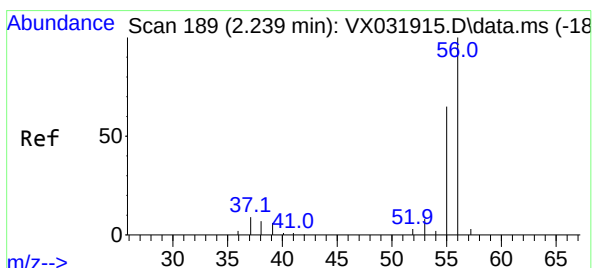
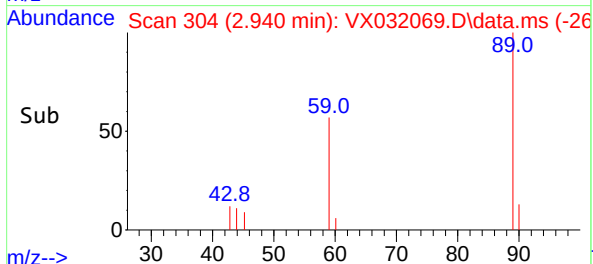
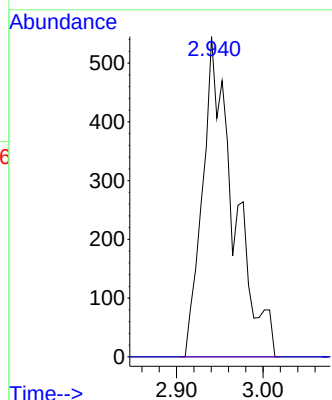
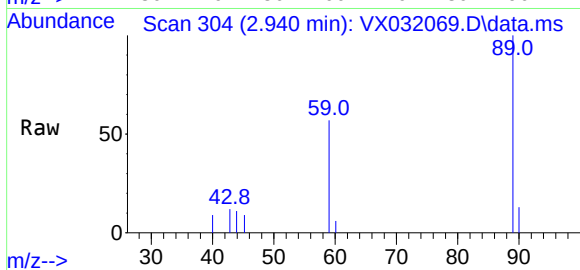
B-4(11-12)

Tgt Ion: 59 Resp: 1370

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.2#



#13

Acrolein

Concen: Below Cal

RT: 1.989 min Scan# 148

Delta R.T. -0.250 min

Lab File: VX032069.D

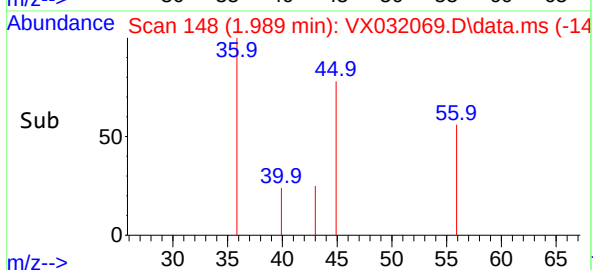
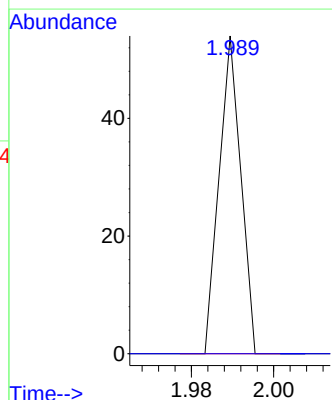
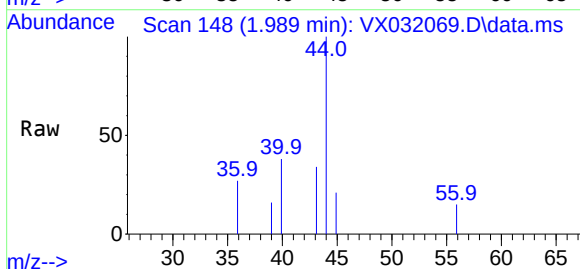
Acq: 12 Oct 2022 08:11

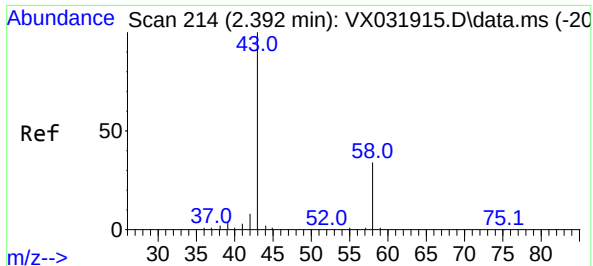
Tgt Ion: 56 Resp: 20

Ion Ratio Lower Upper

56 100

55 0.0 56.0 84.0#

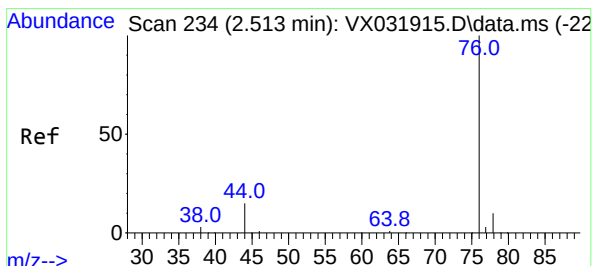
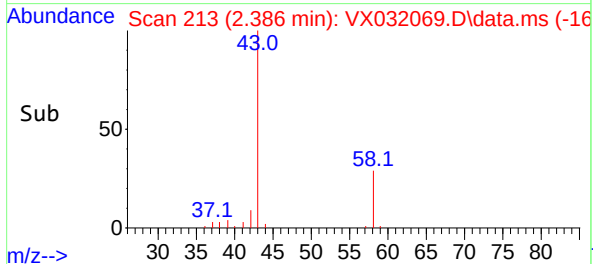
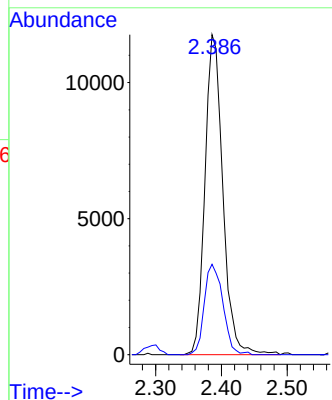
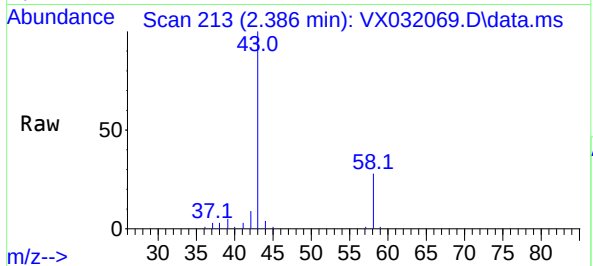




#16
Acetone
Concen: 40.634 ug/l
RT: 2.386 min Scan# 214
Delta R.T. -0.006 min
Lab File: VX032069.D
Acq: 12 Oct 2022 08:11

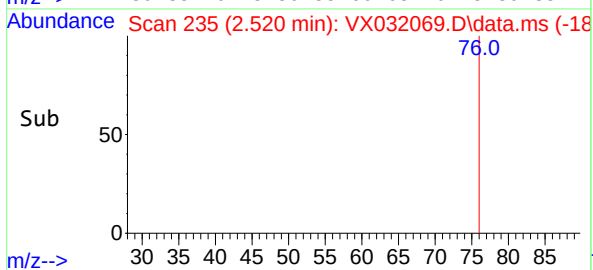
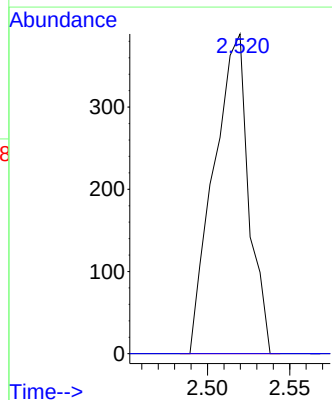
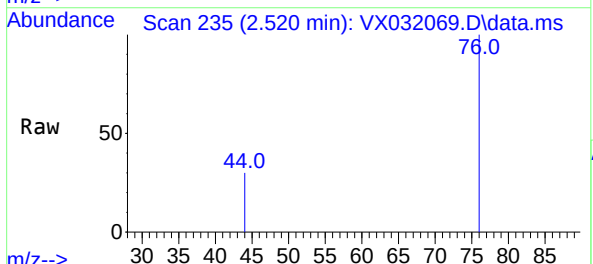
Instrument :
MSVOA_X
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B-4(11-12)

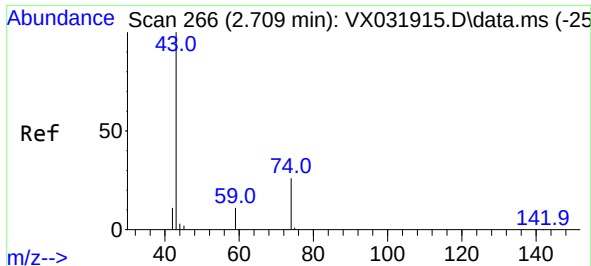
Tgt Ion: 43 Resp: 22227
Ion Ratio Lower Upper
43 100
58 28.2 23.8 35.8



#17
Carbon Disulfide
Concen: 0.225 ug/l
RT: 2.520 min Scan# 235
Delta R.T. 0.007 min
Lab File: VX032069.D
Acq: 12 Oct 2022 08:11

Tgt Ion: 76 Resp: 574
Ion Ratio Lower Upper
76 100
78 0.0 7.2 10.8#

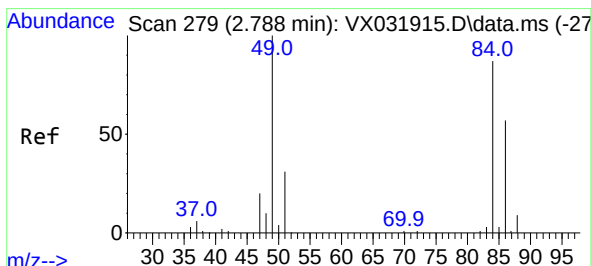
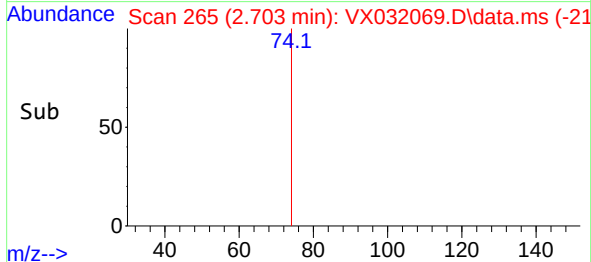
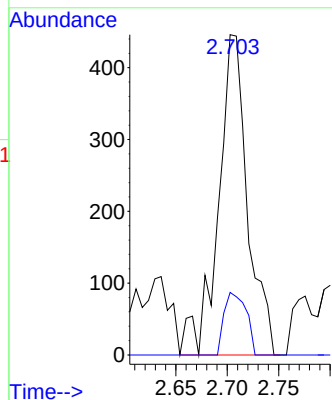
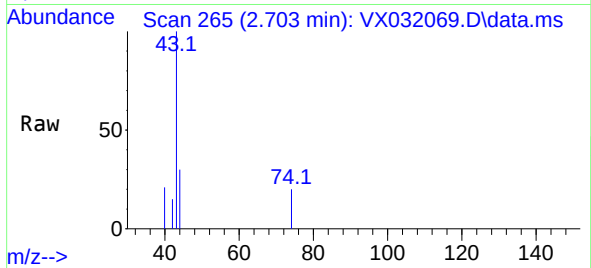




#18
Methyl Acetate
Concen: 0.489 ug/l
RT: 2.703 min Scan# 20
Delta R.T. -0.006 min
Lab File: VX032069.D
Acq: 12 Oct 2022 08:11

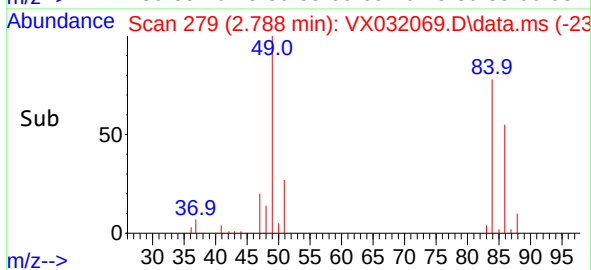
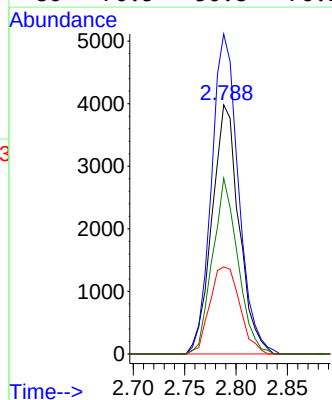
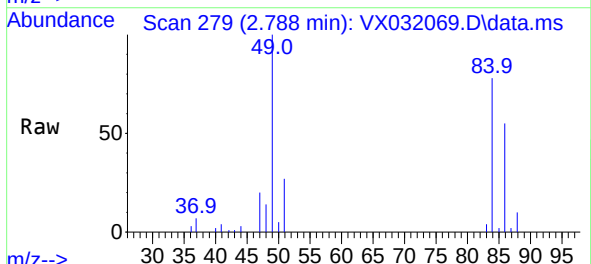
Instrument :
MSVOA_X
ClientSampleId :
B-4(11-12)

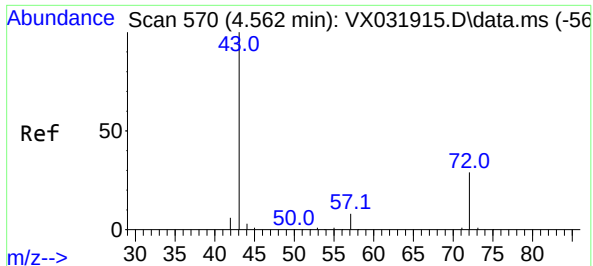
Tgt Ion: 43 Resp: 883
Ion Ratio Lower Upper
43 100
74 14.6 18.6 27.8#



#20
Methylene Chloride
Concen: 5.082 ug/l
RT: 2.788 min Scan# 279
Delta R.T. 0.000 min
Lab File: VX032069.D
Acq: 12 Oct 2022 08:11

Tgt Ion: 84 Resp: 7305
Ion Ratio Lower Upper
84 100
49 128.4 105.9 158.9
51 34.9 32.2 48.2
86 70.5 50.8 76.2

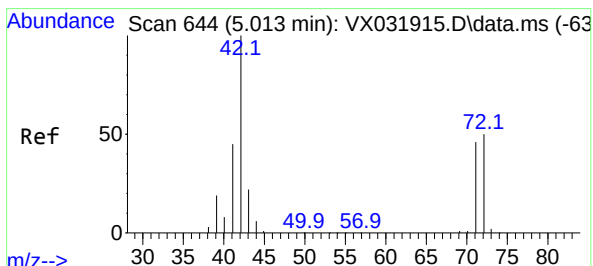
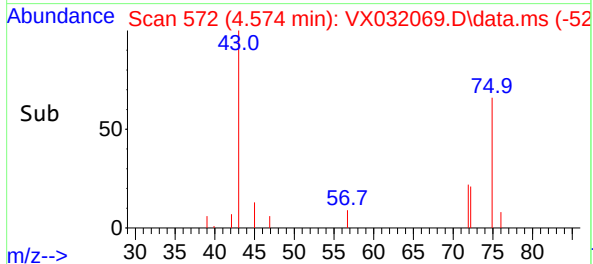
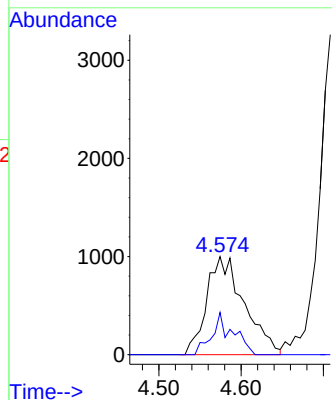
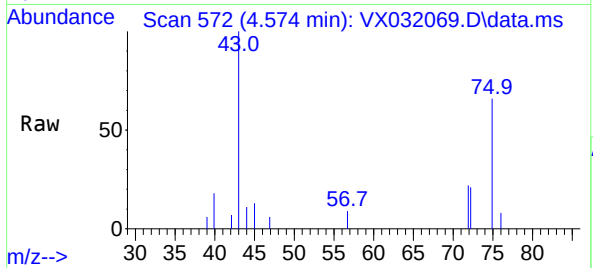




#25
2-Butanone
Concen: 3.712 ug/l
RT: 4.574 min Scan# 51
Delta R.T. 0.012 min
Lab File: VX032069.D
Acq: 12 Oct 2022 08:11

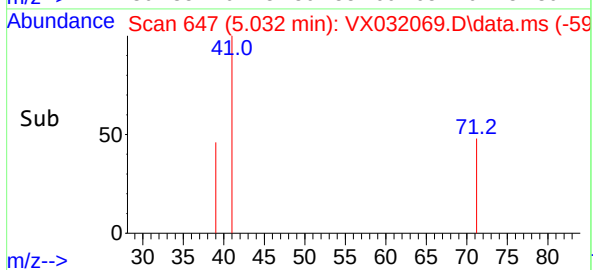
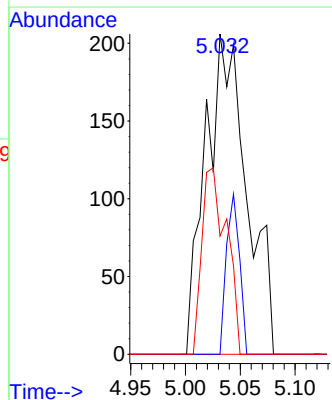
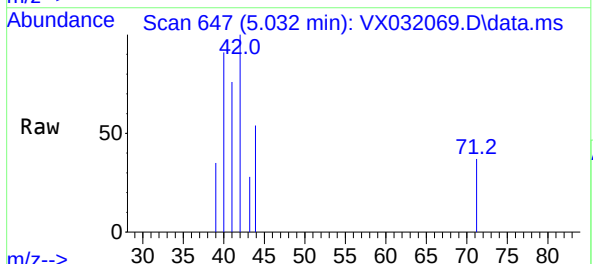
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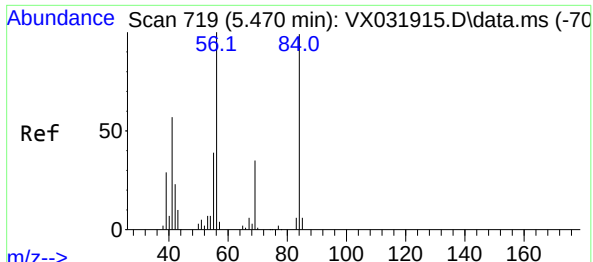
Tgt Ion: 43 Resp: 3174
Ion Ratio Lower Upper
43 100
72 43.0 21.1 31.7#



#29
Tetrahydrofuran
Concen: 0.982 ug/l
RT: 5.032 min Scan# 647
Delta R.T. 0.019 min
Lab File: VX032069.D
Acq: 12 Oct 2022 08:11

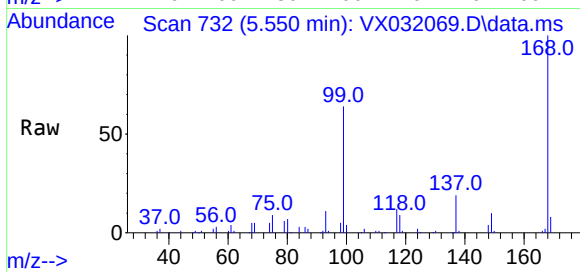
Tgt Ion: 42 Resp: 542
Ion Ratio Lower Upper
42 100
72 15.9 36.4 54.6#
71 34.5 33.5 50.3



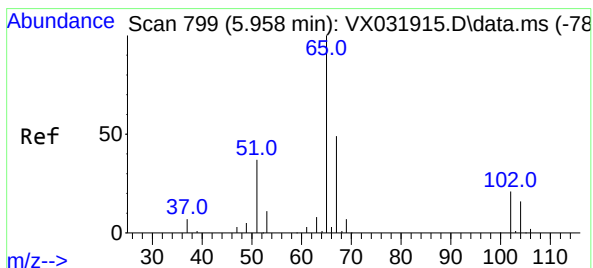
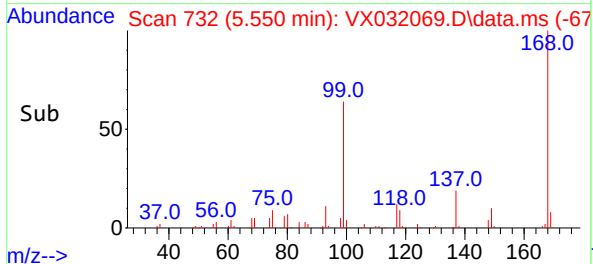
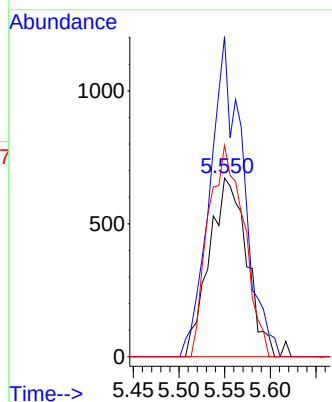


#31
Cyclohexane
Concen: 0.995 ug/l
RT: 5.550 min Scan# 719
Delta R.T. 0.080 min
Lab File: VX032069.D
Acq: 12 Oct 2022 08:11

Instrument :
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ClientSampleId :
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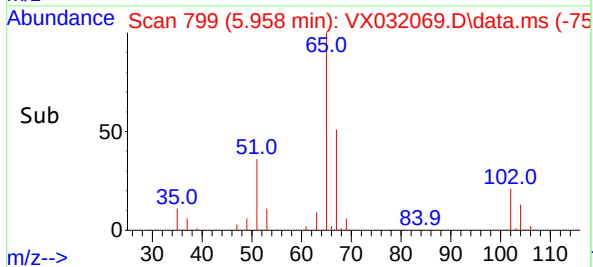
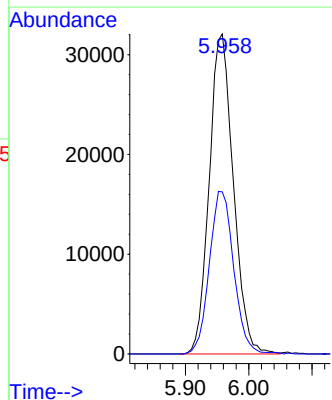
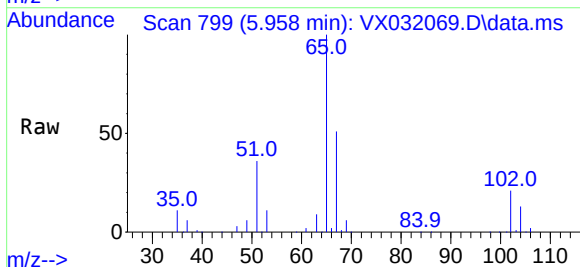


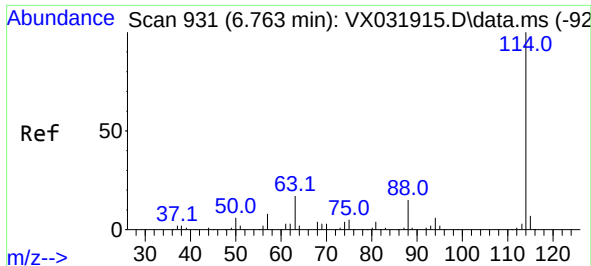
Tgt Ion: 56 Resp: 1914
Ion Ratio Lower Upper
56 100
69 179.2 25.1 37.7#
84 118.3 70.2 105.4#



#33
1,2-Dichloroethane-d4
Concen: 52.844 ug/l
RT: 5.958 min Scan# 799
Delta R.T. 0.000 min
Lab File: VX032069.D
Acq: 12 Oct 2022 08:11

Tgt Ion: 65 Resp: 85053
Ion Ratio Lower Upper
65 100
67 51.4 0.0 102.4

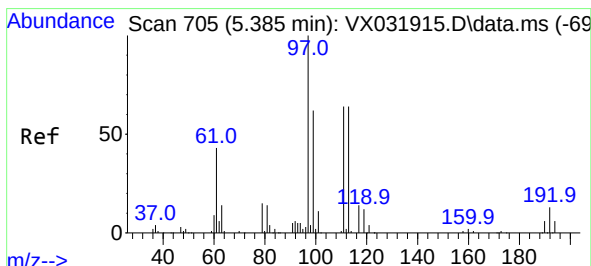
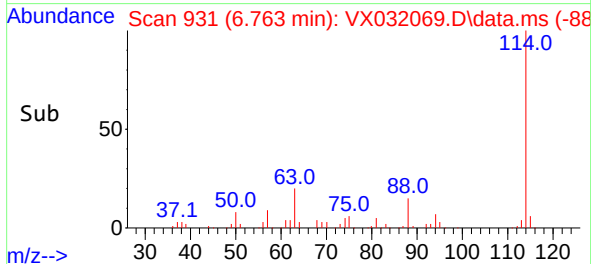
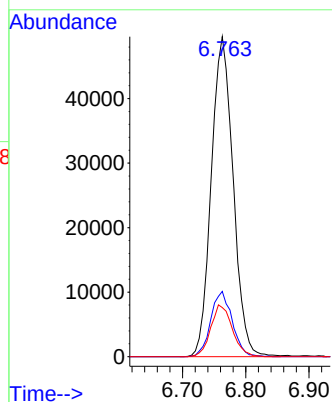
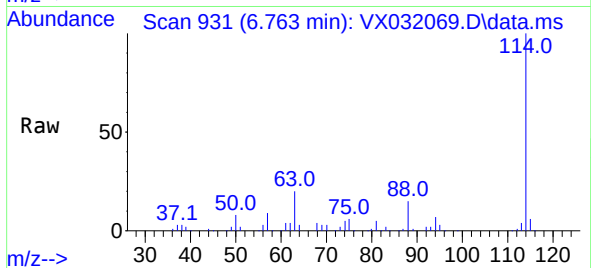




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 911
Delta R.T. -0.000 min
Lab File: VX032069.D
Acq: 12 Oct 2022 08:11

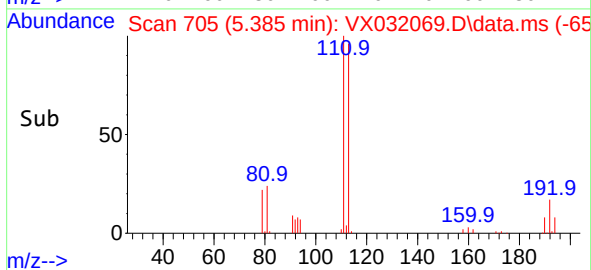
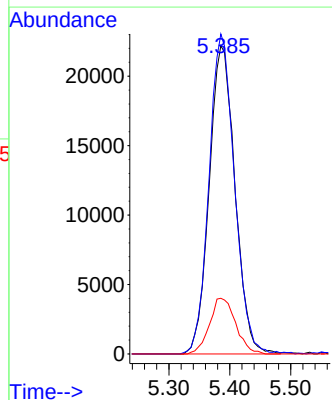
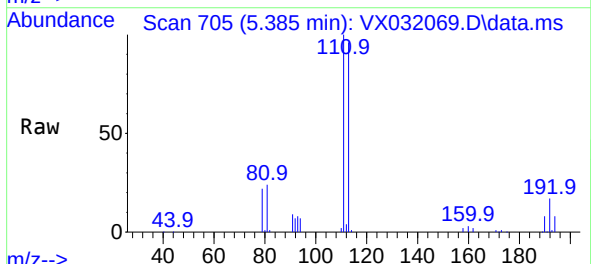
Instrument :
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B-4(11-12)

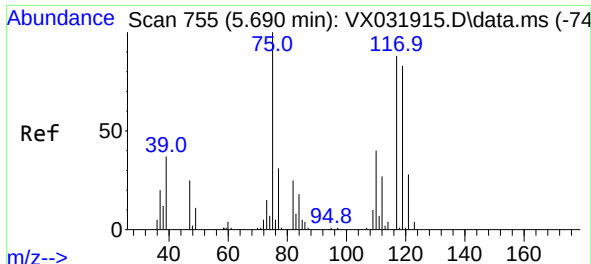
Tgt Ion:114 Resp: 119121
Ion Ratio Lower Upper
114 100
63 20.4 0.0 42.6
88 15.4 0.0 33.0



#35
Dibromofluoromethane
Concen: 48.388 ug/l
RT: 5.385 min Scan# 705
Delta R.T. 0.000 min
Lab File: VX032069.D
Acq: 12 Oct 2022 08:11

Tgt Ion:113 Resp: 65246
Ion Ratio Lower Upper
113 100
111 102.5 82.4 123.6
192 18.3 14.1 21.1





#36

1,1-Dichloropropene

Concen: 3.765 ug/l

RT: 5.550 min Scan# 71

Delta R.T. -0.140 min

Lab File: VX032069.D

Acq: 12 Oct 2022 08:11

Instrument :

MSVOA_X

ClientSampleId :

B-4(11-12)

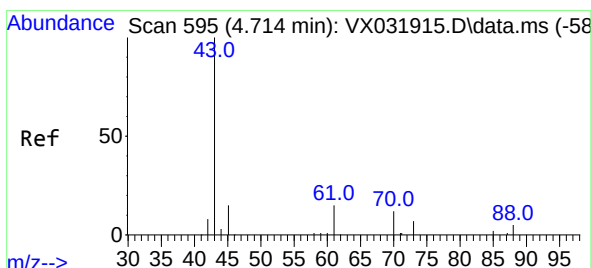
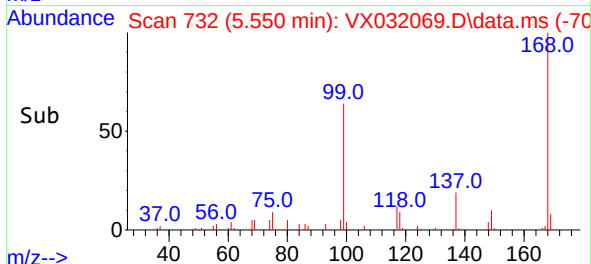
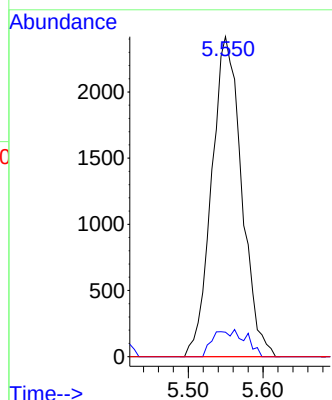
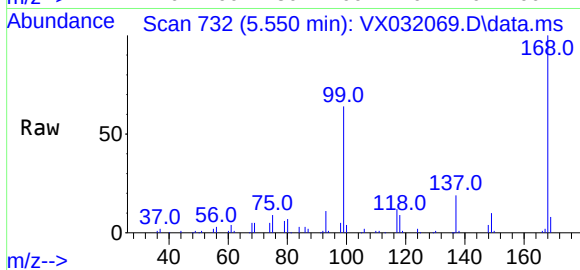
Tgt Ion: 75 Resp: 6732

Ion Ratio Lower Upper

75 100

110 9.2 17.5 52.5#

77 0.0 24.9 37.3#



#37

Ethyl Acetate

Concen: 8.213 ug/l

RT: 4.715 min Scan# 595

Delta R.T. 0.000 min

Lab File: VX032069.D

Acq: 12 Oct 2022 08:11

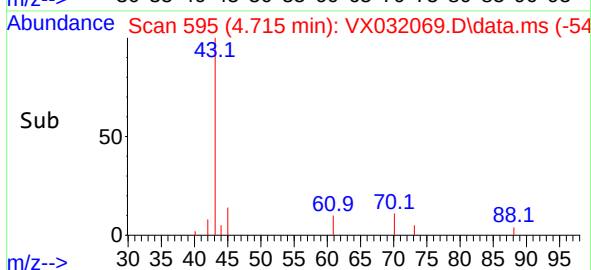
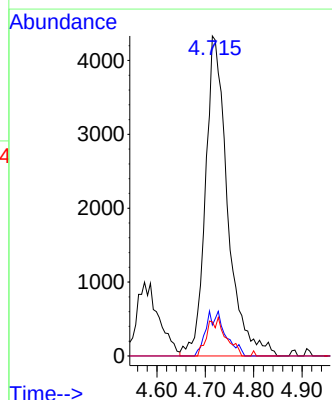
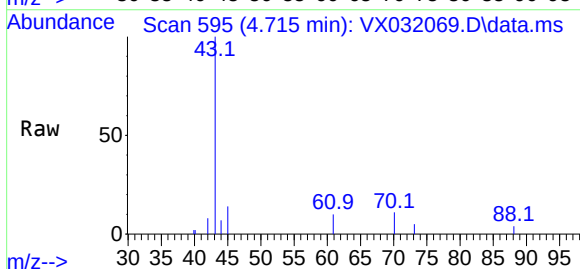
Tgt Ion: 43 Resp: 13826

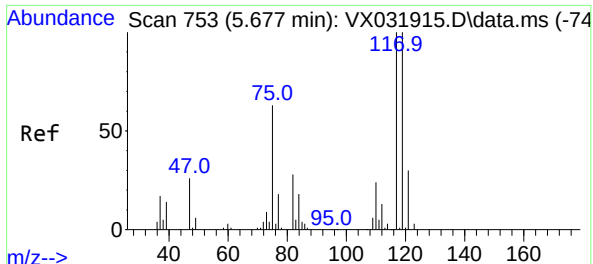
Ion Ratio Lower Upper

43 100

61 4.9 11.1 16.7#

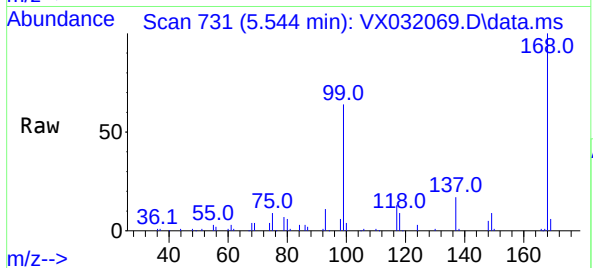
70 10.1 8.6 13.0



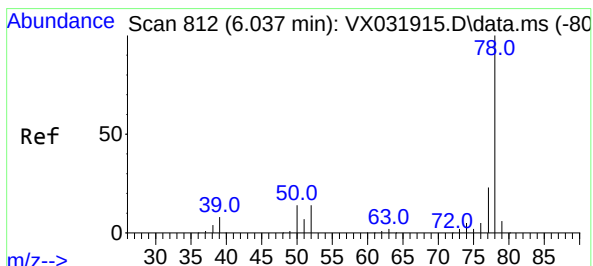
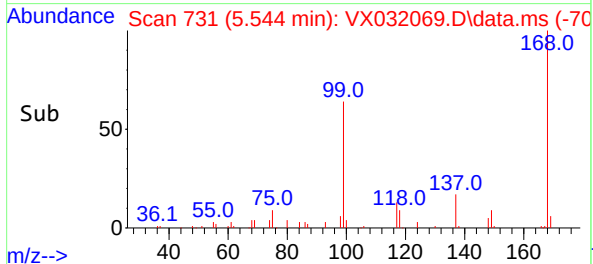
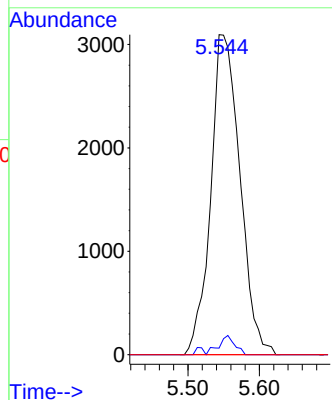


#38
Carbon Tetrachloride
Concen: 4.811 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.133 min
Lab File: VX032069.D
Acq: 12 Oct 2022 08:11

Instrument :
MSVOA_X
ClientSampleId :
B-4(11-12)

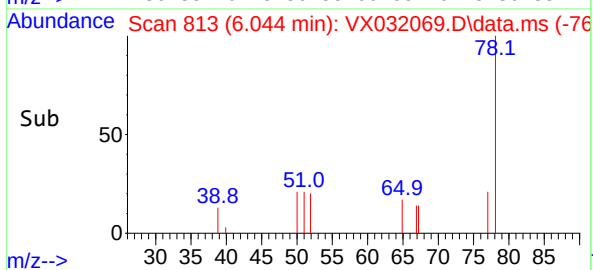
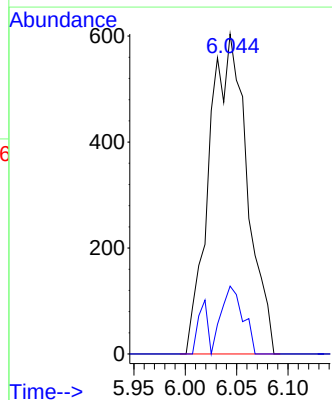
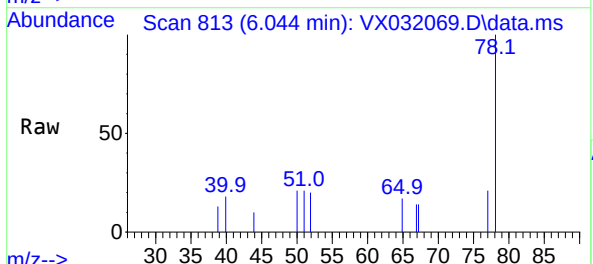


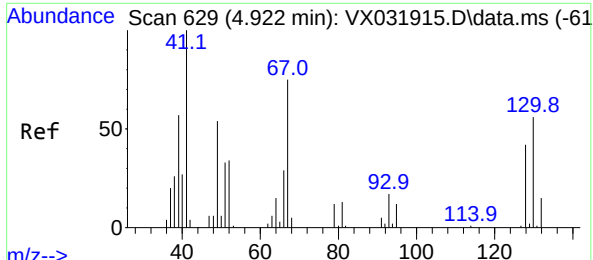
Tgt Ion:117 Resp: 8796
Ion Ratio Lower Upper
117 100
119 2.1 74.6 112.0#
121 0.0 25.3 37.9#



#40
Benzene
Concen: 0.296 ug/l
RT: 6.044 min Scan# 813
Delta R.T. 0.007 min
Lab File: VX032069.D
Acq: 12 Oct 2022 08:11

Tgt Ion: 78 Resp: 1551
Ion Ratio Lower Upper
78 100
77 21.2 18.7 28.1

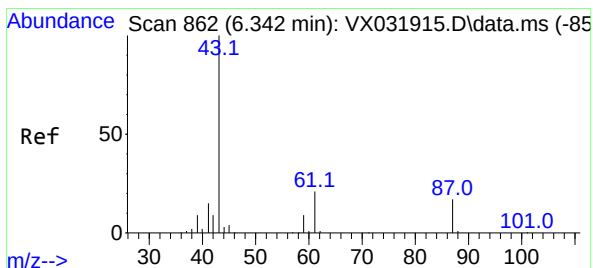
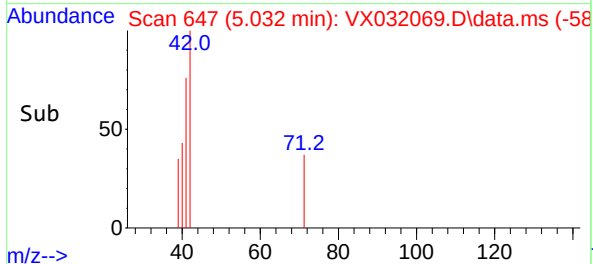
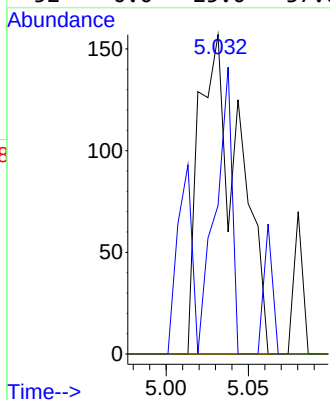
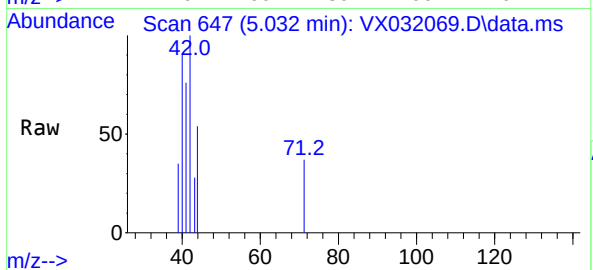




#41
Methacrylonitrile
Concen: 0.306 ug/l
RT: 5.032 min Scan# 647
Delta R.T. 0.110 min
Lab File: VX032069.D
Acq: 12 Oct 2022 08:11

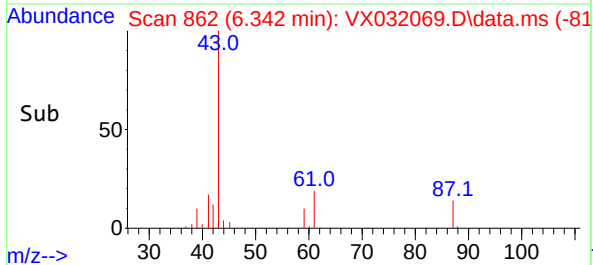
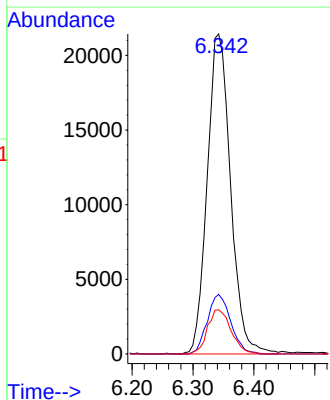
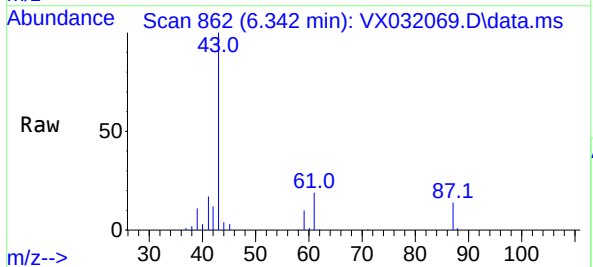
Instrument :
MSVOA_X
ClientSampleId :
B-4(11-12)

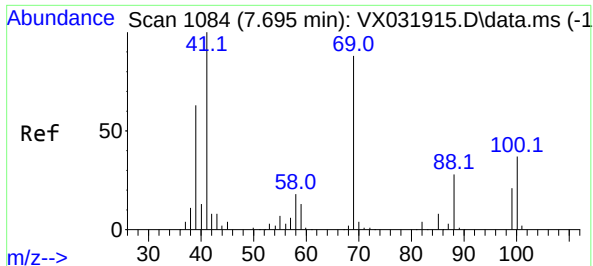
Tgt Ion: 41	Resp:	268
Ion	Ratio	Lower Upper
41	100	
39	36.9	45.0 67.6#
67	0.0	58.2 87.4#
52	0.0	25.0 37.6#



#43
Isopropyl Acetate
Concen: 22.377 ug/l
RT: 6.342 min Scan# 862
Delta R.T. 0.000 min
Lab File: VX032069.D
Acq: 12 Oct 2022 08:11

Tgt Ion: 43	Resp:	57152
Ion	Ratio	Lower Upper
43	100	
61	18.6	15.3 22.9
87	13.9	10.6 15.8

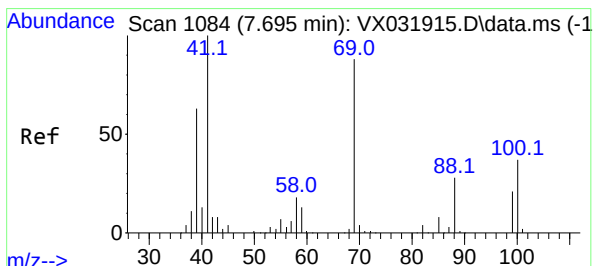
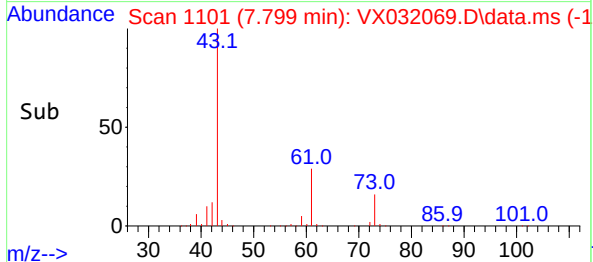
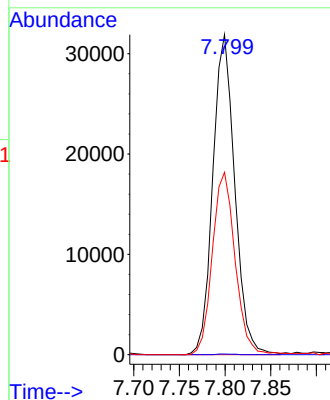
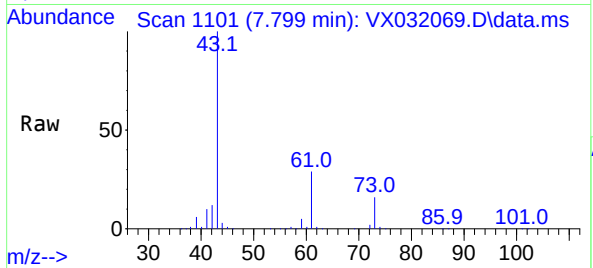




#48
Methyl methacrylate
Concen: 43.740 ug/l
RT: 7.799 min Scan# 1101
Delta R.T. 0.104 min
Lab File: VX032069.D
Acq: 12 Oct 2022 08:11

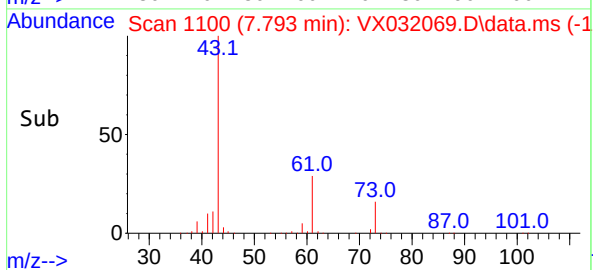
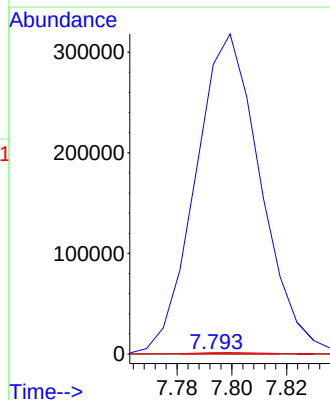
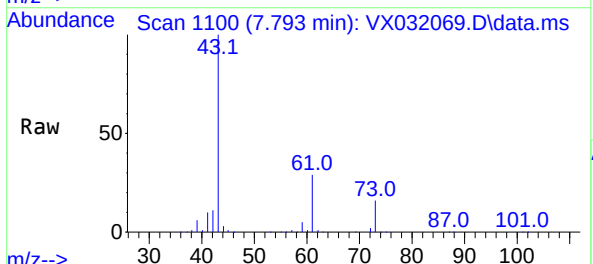
Instrument :
MSVOA_X
ClientSampleId :
B-4(11-12)

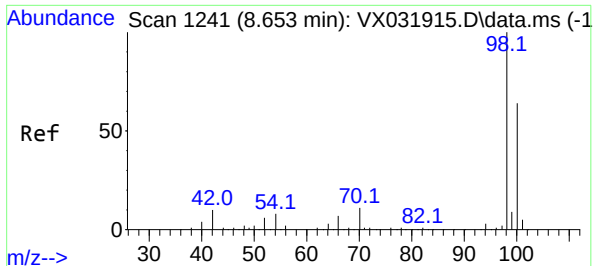
Tgt Ion: 41 Resp: 53382
Ion Ratio Lower Upper
41 100
69 0.2 64.6 96.8#
39 59.2 51.4 77.0



#49
1,4-Dioxane
Concen: Below Cal
RT: 7.793 min Scan# 1100
Delta R.T. 0.098 min
Lab File: VX032069.D
Acq: 12 Oct 2022 08:11

Tgt Ion: 88 Resp: 60
Ion Ratio Lower Upper
88 100
43 888575.0 27.1 40.7#
58 4180.0 53.9 80.9#





#50

Toluene-d8

Concen: 51.617 ug/l

RT: 8.653 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX032069.D

Acq: 12 Oct 2022 08:11

Instrument :

MSVOA_X

ClientSampleId :

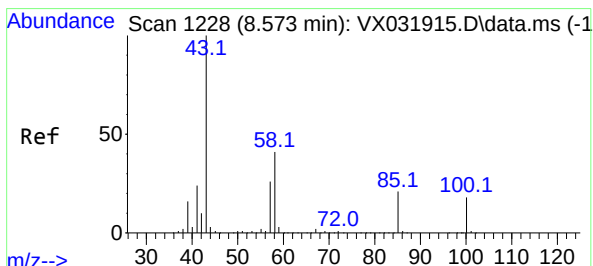
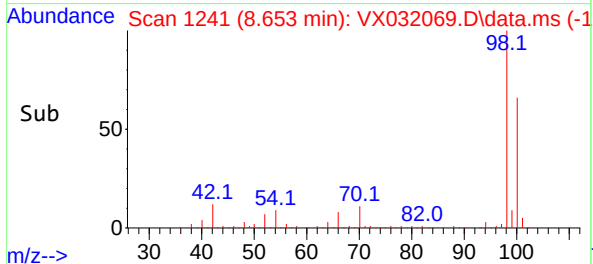
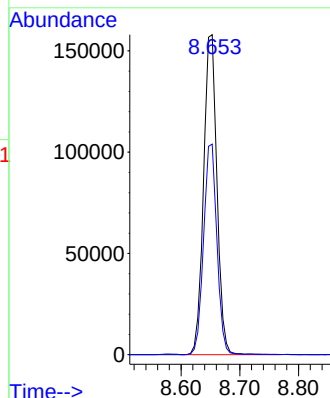
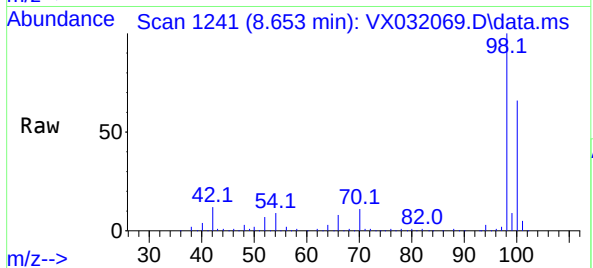
B-4(11-12)

Tgt Ion: 98 Resp: 250445

Ion Ratio Lower Upper

98 100

100 65.6 52.5 78.7



#51

4-Methyl-2-Pentanone

Concen: 28.749 ug/l

RT: 8.549 min Scan# 1224

Delta R.T. -0.024 min

Lab File: VX032069.D

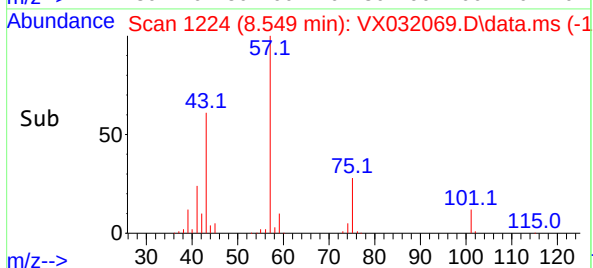
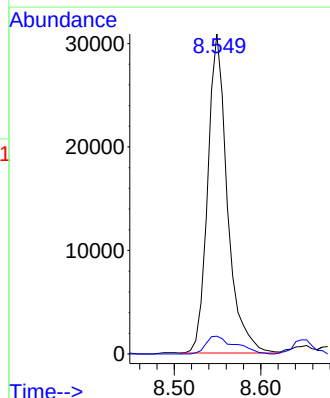
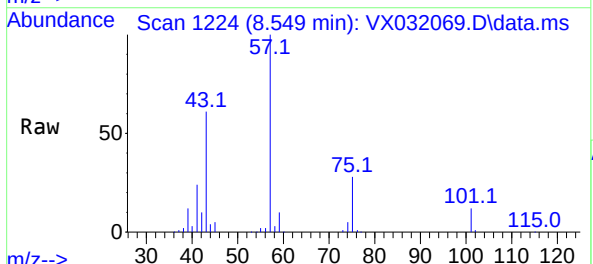
Acq: 12 Oct 2022 08:11

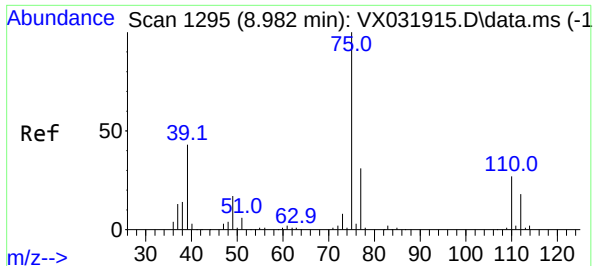
Tgt Ion: 43 Resp: 48659

Ion Ratio Lower Upper

43 100

58 8.3 30.6 46.0#





#53

t-1,3-Dichloropropene

Concen: 1.367 ug/l

RT: 8.952 min Scan# 11

Delta R.T. -0.030 min

Lab File: VX032069.D

Acq: 12 Oct 2022 08:11

Instrument :

MSVOA_X

ClientSampleId :

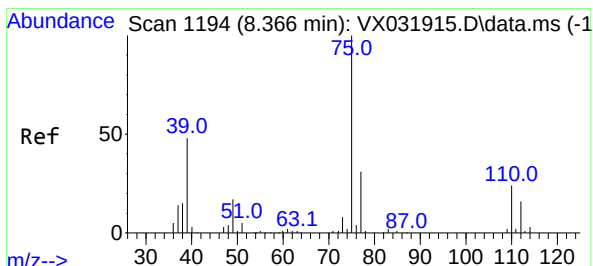
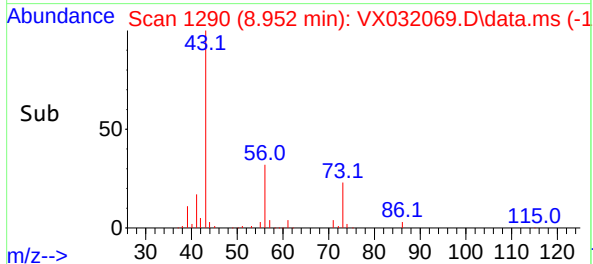
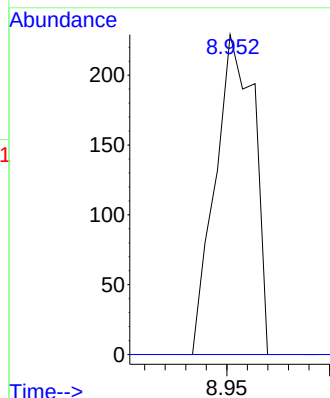
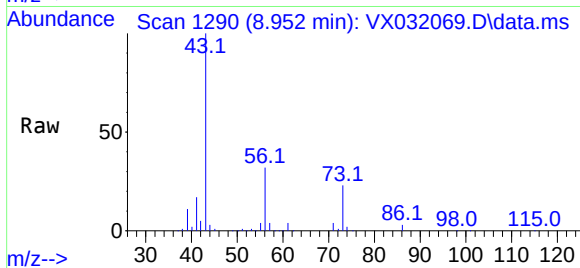
B-4(11-12)

Tgt Ion: 75 Resp: 302

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#



#54

cis-1,3-Dichloropropene

Concen: 11.437 ug/l

RT: 8.549 min Scan# 1224

Delta R.T. 0.183 min

Lab File: VX032069.D

Acq: 12 Oct 2022 08:11

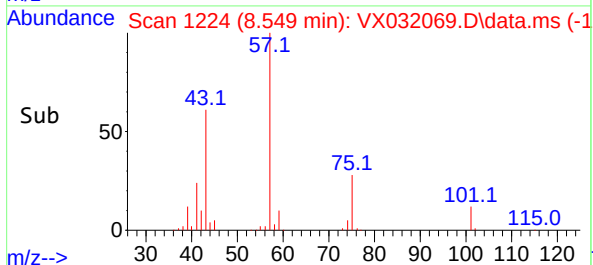
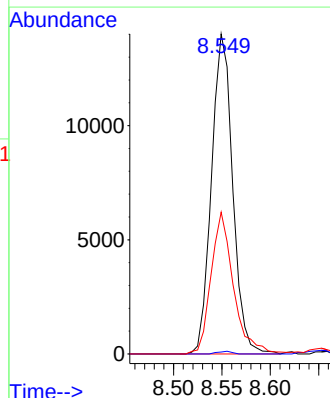
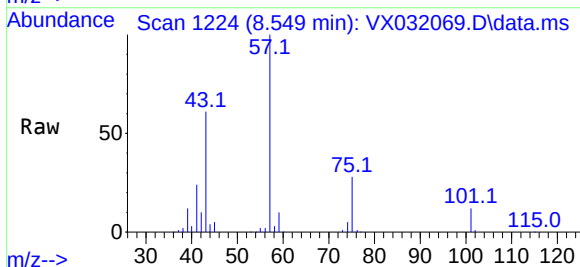
Tgt Ion: 75 Resp: 21336

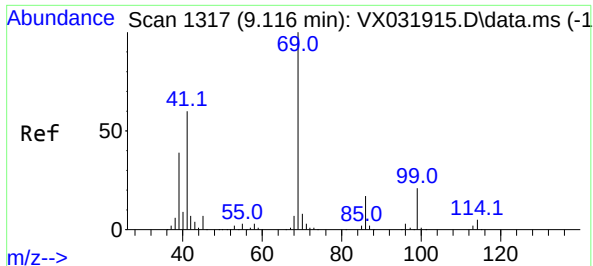
Ion Ratio Lower Upper

75 100

77 0.6 24.4 36.6#

39 44.3 43.7 65.5





#56

Ethyl methacrylate

Concen: 0.291 ug/l

RT: 9.244 min Scan# 11

Delta R.T. 0.128 min

Lab File: VX032069.D

Acq: 12 Oct 2022 08:11

Instrument :

MSVOA_X

ClientSampleId :

B-4(11-12)

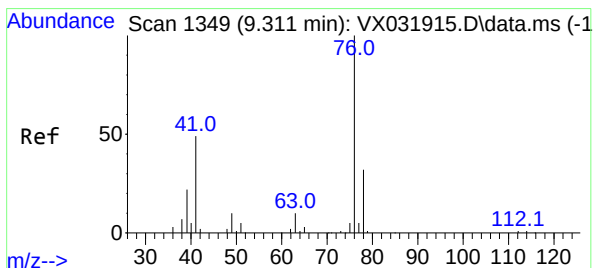
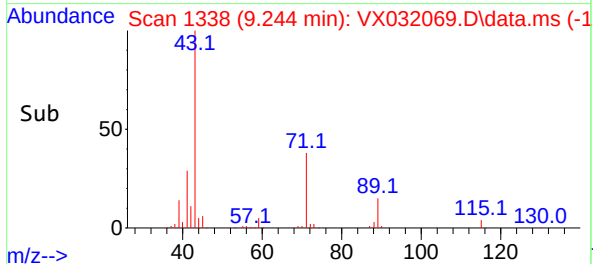
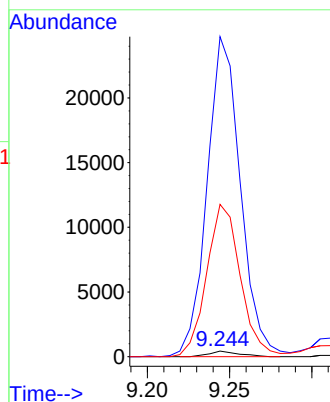
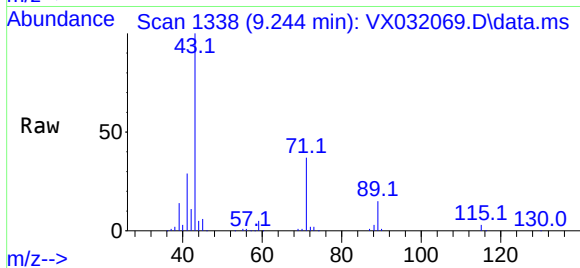
Tgt Ion: 69 Resp: 539

Ion Ratio Lower Upper

69 100

41 6490.2 54.2 81.4#

39 3108.2 34.2 51.2#



#57

1,3-Dichloropropane

Concen: 1.190 ug/l

RT: 9.482 min Scan# 1377

Delta R.T. 0.171 min

Lab File: VX032069.D

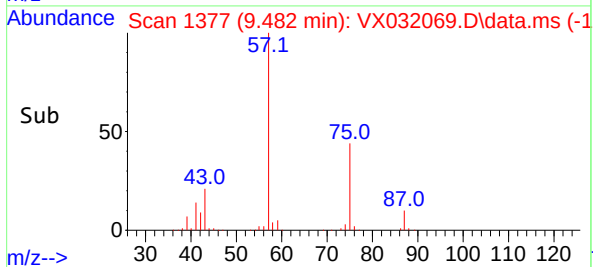
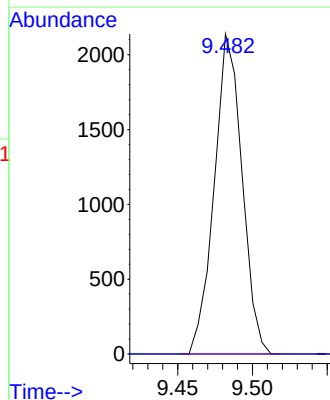
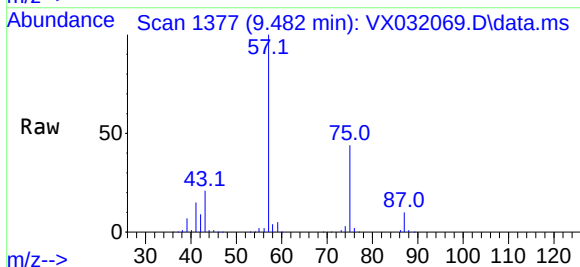
Acq: 12 Oct 2022 08:11

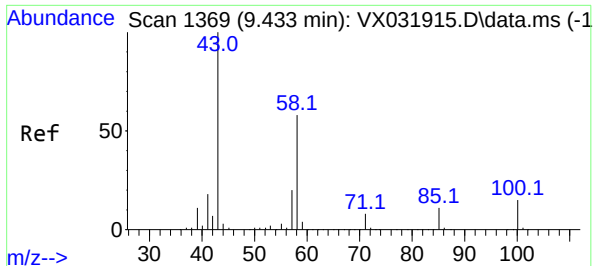
Tgt Ion: 76 Resp: 2762

Ion Ratio Lower Upper

76 100

78 0.0 25.5 38.3#

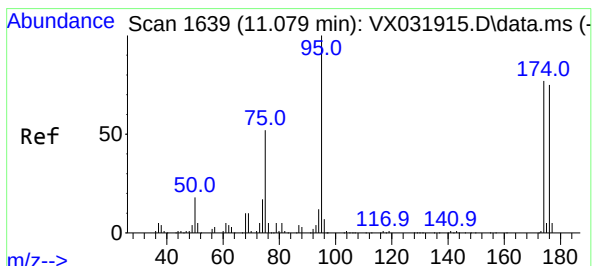
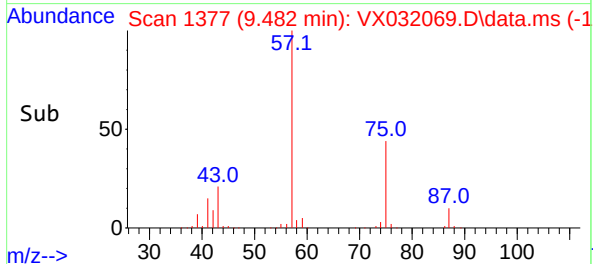
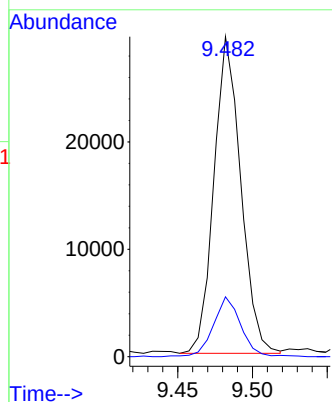
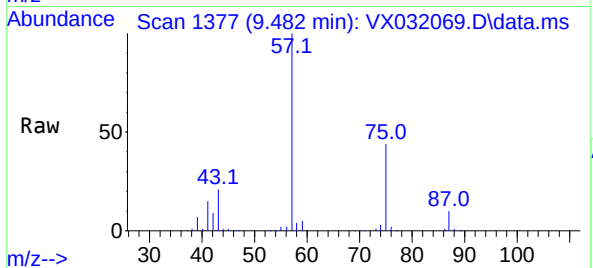




#59
2-Hexanone
Concen: 29.491 ug/l
RT: 9.482 min Scan# 11
Delta R.T. 0.049 min
Lab File: VX032069.D
Acq: 12 Oct 2022 08:11

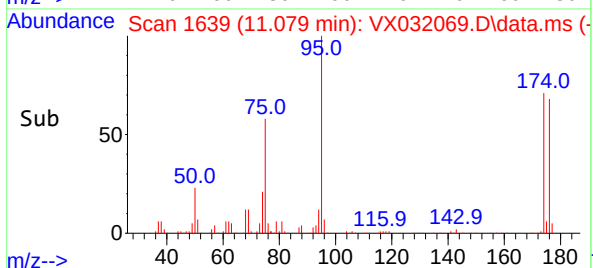
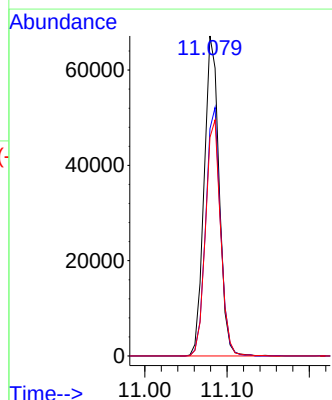
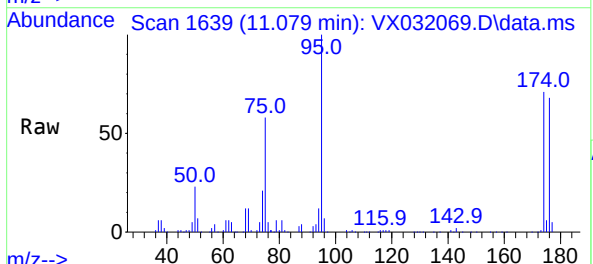
Instrument :
MSVOA_X
ClientSampleId :
B-4(11-12)

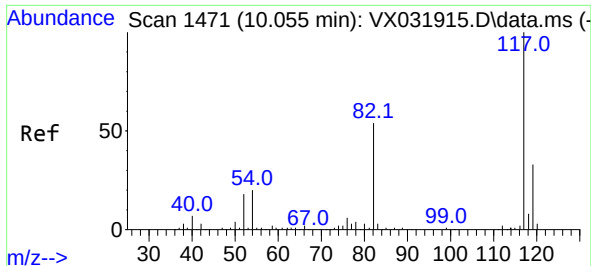
Tgt Ion: 43 Resp: 36803
Ion Ratio Lower Upper
43 100
58 19.4 26.7 80.0#



#62
4-Bromofluorobenzene
Concen: 49.344 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX032069.D
Acq: 12 Oct 2022 08:11

Tgt Ion: 95 Resp: 84639
Ion Ratio Lower Upper
95 100
174 76.5 0.0 153.2
176 74.3 0.0 144.0

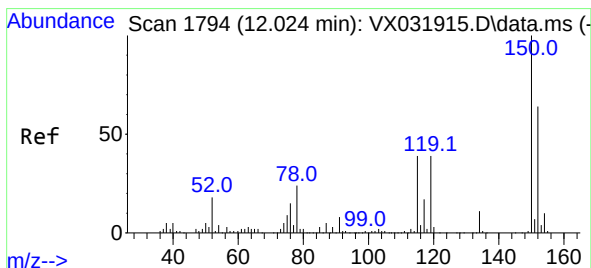
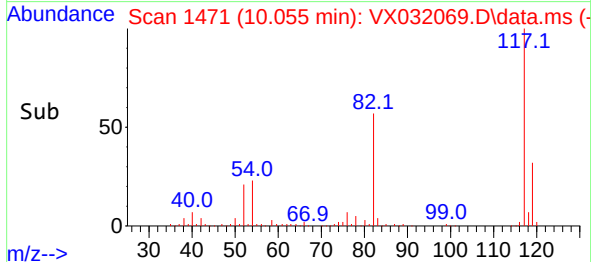
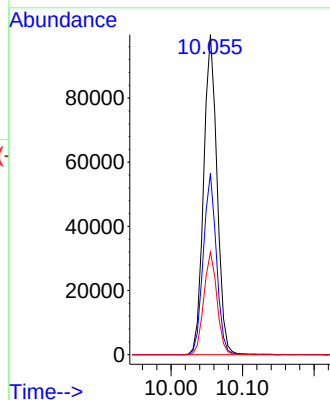
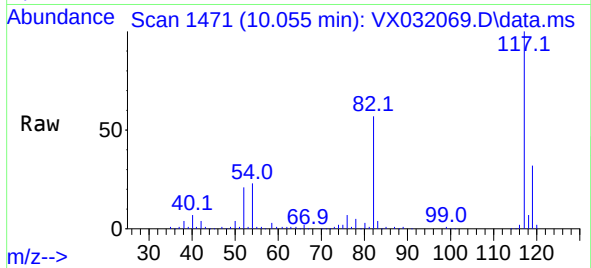




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX032069.D
Acq: 12 Oct 2022 08:11

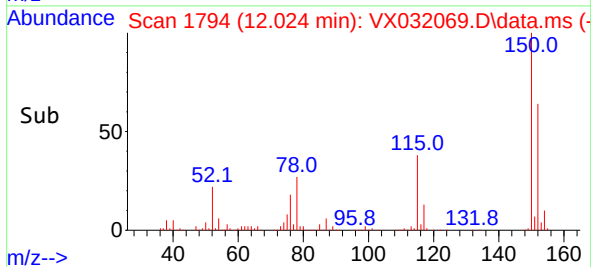
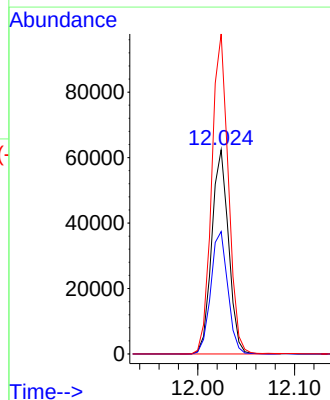
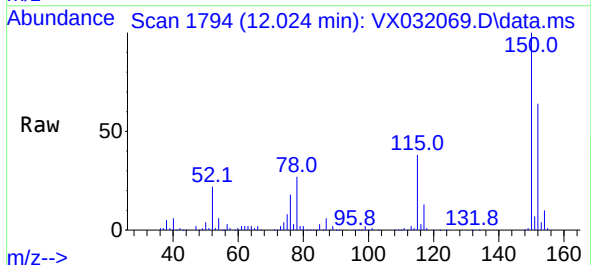
Instrument :
MSVOA_X
ClientSampleId :
B-4(11-12)

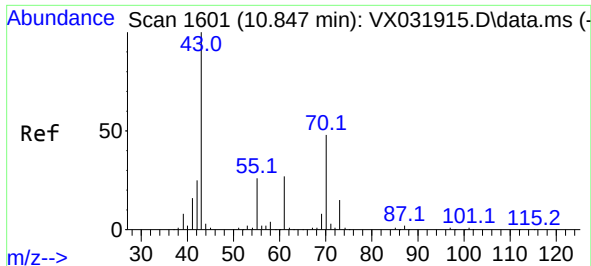
Tgt Ion:117 Resp: 130071
Ion Ratio Lower Upper
117 100
82 56.6 46.8 70.2
119 32.0 26.4 39.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.000 min
Lab File: VX032069.D
Acq: 12 Oct 2022 08:11

Tgt Ion:152 Resp: 75386
Ion Ratio Lower Upper
152 100
115 60.6 43.4 130.1
150 155.7 0.0 346.8

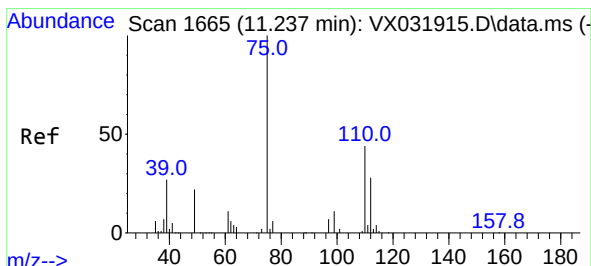
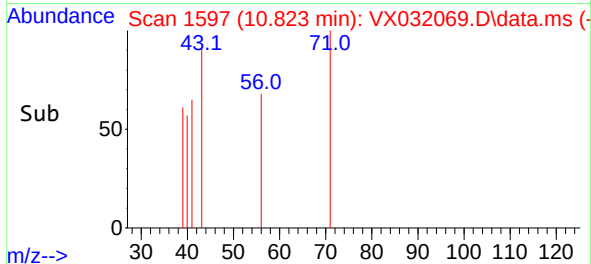
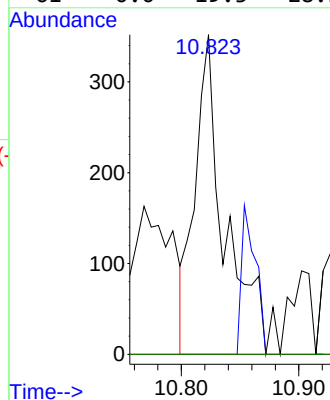
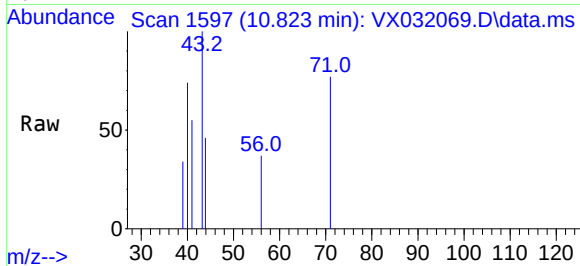




#74
N-amy1 acetate
Concen: 0.365 ug/l
RT: 10.823 min Scan# 11
Delta R.T. -0.024 min
Lab File: VX032069.D
Acq: 12 Oct 2022 08:11

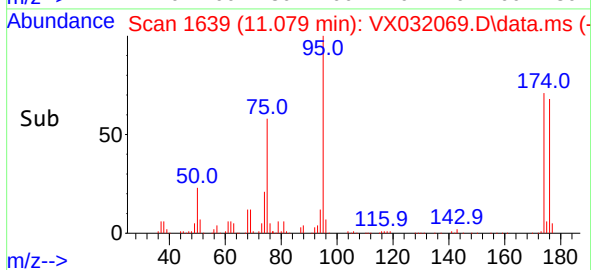
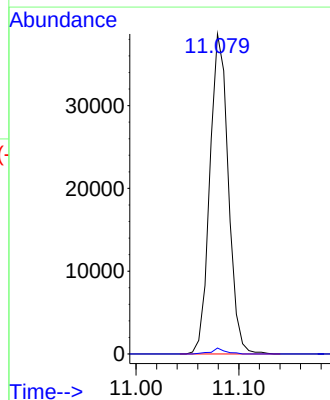
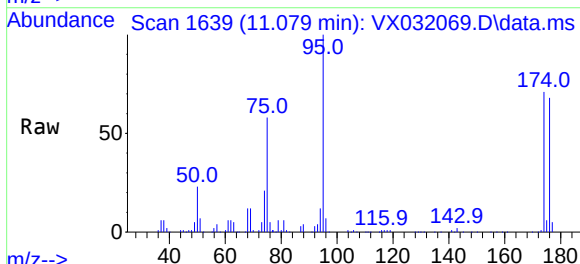
Instrument :
MSVOA_X
ClientSampleId :
B-4(11-12)

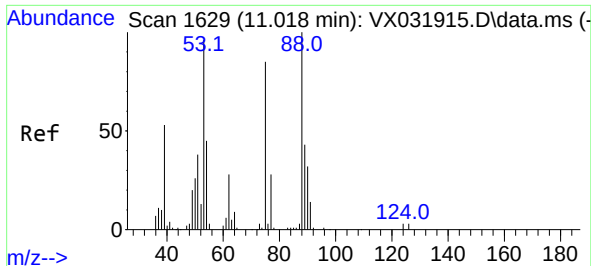
Tgt Ion:	43	Resp:	633
Ion	Ratio	Lower	Upper
43	100		
70	0.0	33.4	50.2#
55	0.0	18.2	27.2#
61	0.0	19.3	28.9#



#76
1,2,3-Trichloropropane
Concen: 31.240 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.158 min
Lab File: VX032069.D
Acq: 12 Oct 2022 08:11

Tgt Ion:	75	Resp:	48267
Ion	Ratio	Lower	Upper
75	100		
77	1.4	20.3	60.9#

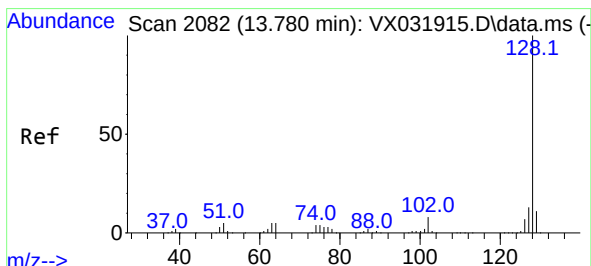
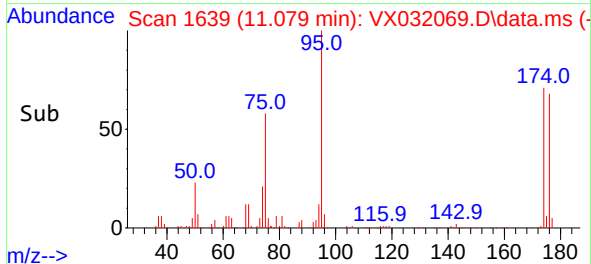
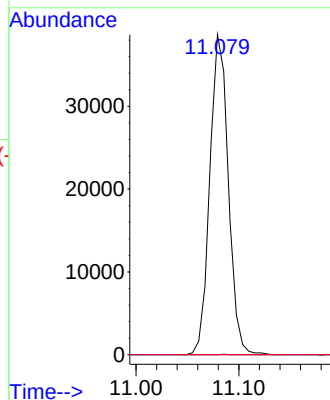
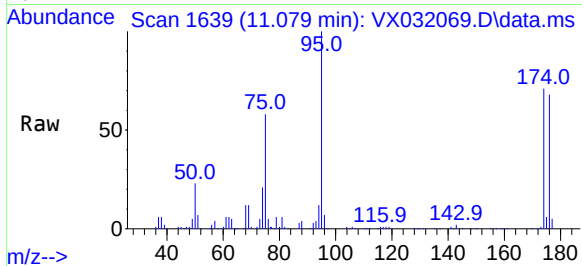




#81
trans-1,4-Dichloro-2-butene
Concen: 106.481 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX032069.D
Acq: 12 Oct 2022 08:11

Instrument :
MSVOA_X
ClientSampleId :
B-4(11-12)

Tgt Ion: 75 Resp: 48267
Ion Ratio Lower Upper
75 100
53 0.0 77.6 116.4#
89 0.0 37.4 56.0#



#95
Naphthalene
Concen: 0.857 ug/l
RT: 13.780 min Scan# 2082
Delta R.T. -0.000 min
Lab File: VX032069.D
Acq: 12 Oct 2022 08:11

Tgt Ion: 128 Resp: 4727
Ion Ratio Lower Upper
128 100
127 11.4 10.4 15.6
129 10.8 8.8 13.2

