

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY072023\
 Data File : VY014720.D
 Acq On : 20 Jul 2023 14:54
 Operator : SY/MD
 Sample : VIBLK
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VIBLK

Quant Time: Jul 21 01:30:24 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 14 02:09:50 2023
 Response via : Initial Calibration

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

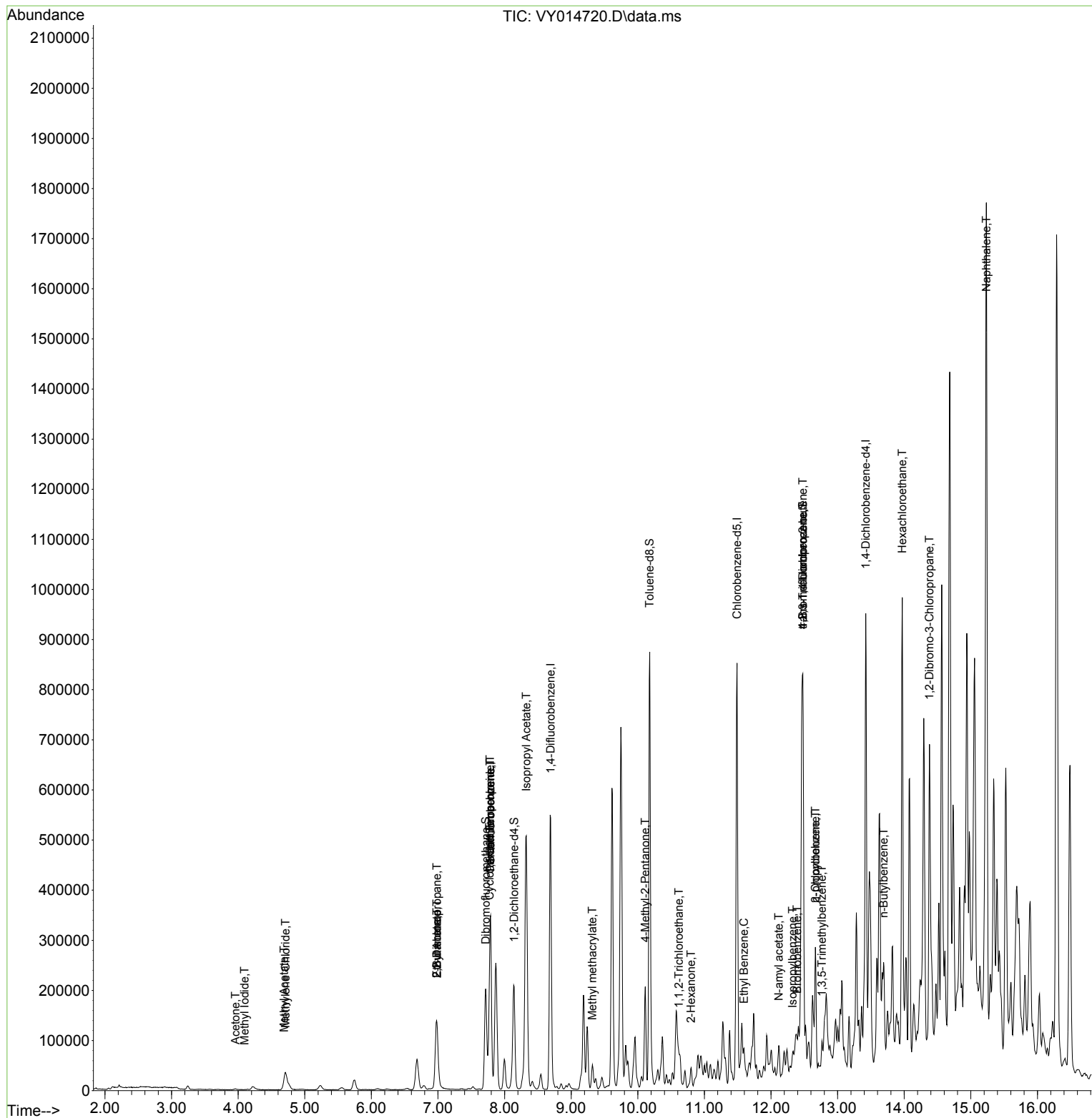
Internal Standards						
1) Pentafluorobenzene	7.789	168	259266	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	448635	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	414729	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	204448	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.142	65	159158	53.871	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 107.740%			
35) Dibromofluoromethane	7.716	113	141321	49.484	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 98.960%			
50) Toluene-d8	10.179	98	532482	50.572	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 101.140%			
62) 4-Bromofluorobenzene	12.477	95	207312	51.350	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 102.700%			
Target Compounds						
					Qvalue	
10) Methyl Iodide	4.094	142	571	2.557	ug/l #	59
11) Tert butyl alcohol	4.954	59	2417	Below Cal	#	72
16) Acetone	3.960	43	3180	3.397	ug/l	97
18) Methyl Acetate	4.692	43	9137	2.543	ug/l #	54
20) Methylene Chloride	4.710	84	21024	2.938	ug/l #	85
25) 2-Butanone	6.984	43	8446	6.166	ug/l #	70
26) 2,2-Dichloropropane	6.984	77	10883	2.165	ug/l #	54
31) Cyclohexane	7.777	56	14852	3.028	ug/l #	75
36) 1,1-Dichloropropene	7.783	75	19102	4.473	ug/l #	51
37) Ethyl Acetate	6.984	43	8446	2.872	ug/l #	1
38) Carbon Tetrachloride	7.783	117	25947	5.747	ug/l #	16
43) Isopropyl Acetate	8.325	43	103548	18.486	ug/l #	55
48) Methyl methacrylate	9.319	41	12405	4.922	ug/l #	29
51) 4-Methyl-2-Pentanone	10.111	43	24250	8.246	ug/l #	87
55) 1,1,2-Trichloroethane	10.618	97	15093	5.631	ug/l #	23
59) 2-Hexanone	10.800	43	14653	6.832	ug/l #	33
67) Ethyl Benzene	11.593	91	27881	1.747	ug/l	96
73) Isopropylbenzene	12.325	105	19744	1.233	ug/l	100
74) N-amyl acetate	12.117	43	16025	2.989	ug/l #	60
76) 1,2,3-Trichloropropane	12.477	75	107288	41.550	ug/l #	100
77) Bromobenzene	12.392	156	39496	10.808	ug/l #	1
78) n-propylbenzene	12.666	91	163383	8.470	ug/l	100
79) 2-Chlorotoluene	12.666	91	163383	14.705	ug/l #	41
80) 1,3,5-Trimethylbenzene	12.763	105	38747	2.898	ug/l	75
81) trans-1,4-Dichloro-2-b...	12.477	75	107288	80.449	ug/l #	11
89) n-Butylbenzene	13.690	91	103648	7.500	ug/l #	86
90) Hexachloroethane	13.971	117	37964	13.012	ug/l #	8
92) 1,2-Dibromo-3-Chloropr...	14.379	75	1107	1.586	ug/l #	17
95) Naphthalene	15.233	128	1214785	126.060	ug/l	99

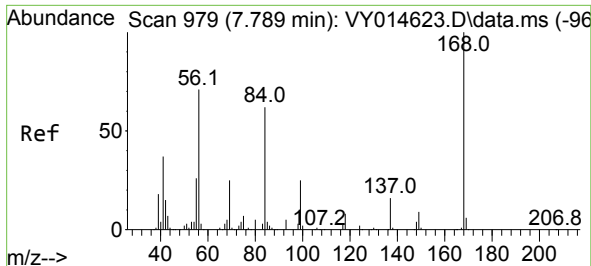
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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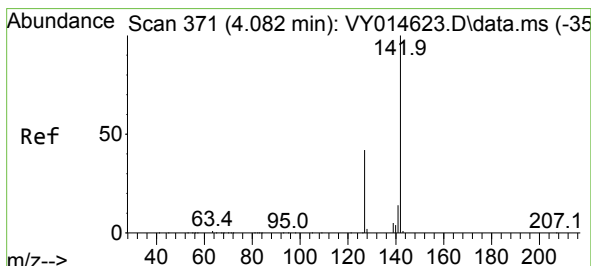
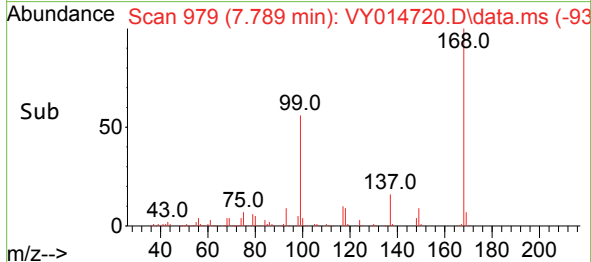
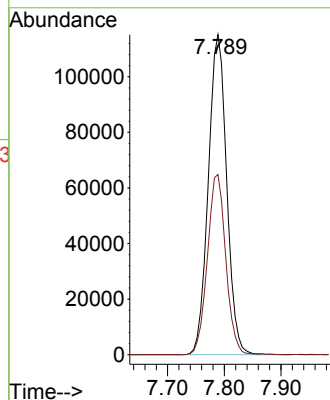
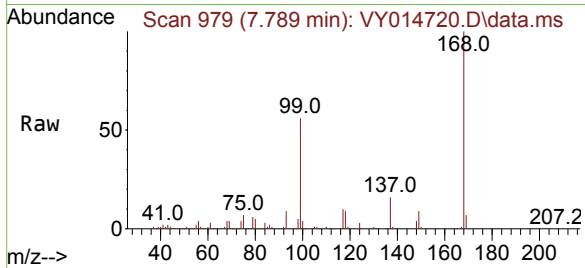




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY014720.D
Acq: 20 Jul 2023 14:54

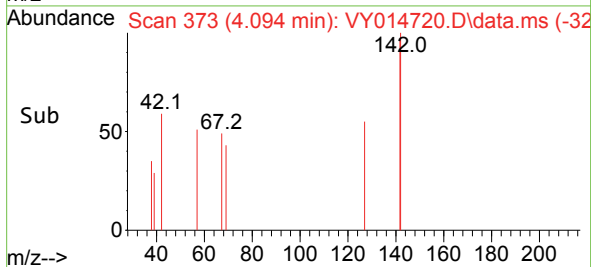
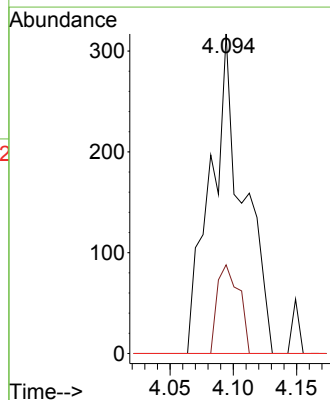
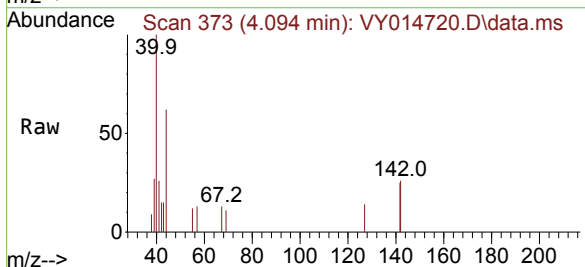
Instrument :
MSVOA_Y
ClientSampleId :
VIBLK

Tgt Ion:168 Resp: 259266
Ion Ratio Lower Upper
168 100
99 56.3 43.4 65.0



#10
Methyl Iodide
Concen: 2.557 ug/l
RT: 4.094 min Scan# 373
Delta R.T. 0.012 min
Lab File: VY014720.D
Acq: 20 Jul 2023 14:54

Tgt Ion:142 Resp: 571
Ion Ratio Lower Upper
142 100
127 18.6 37.6 56.4#
141 0.0 11.8 17.8#

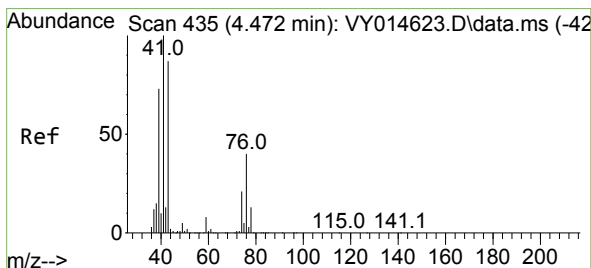
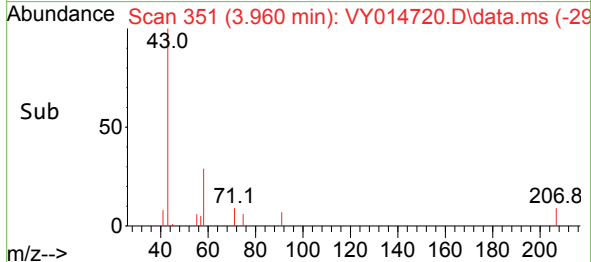
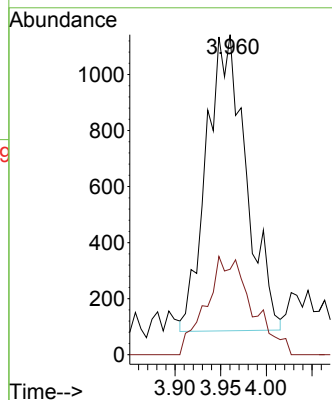
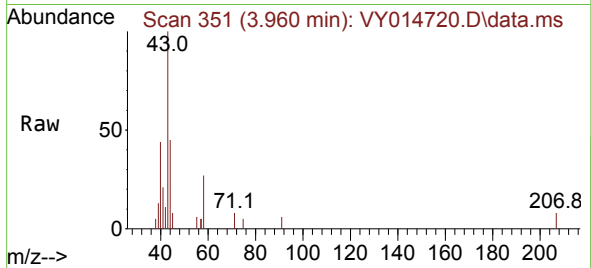




#16
Acetone
Concen: 3.397 ug/l
RT: 3.960 min Scan# 3180
Delta R.T. 0.018 min
Lab File: VY014720.D
Acq: 20 Jul 2023 14:54

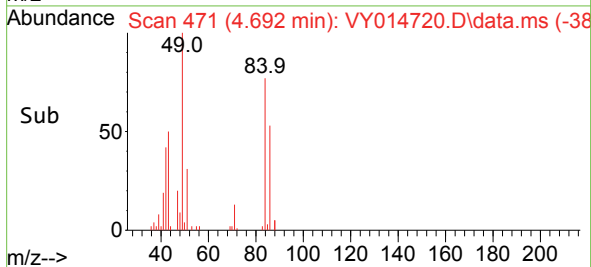
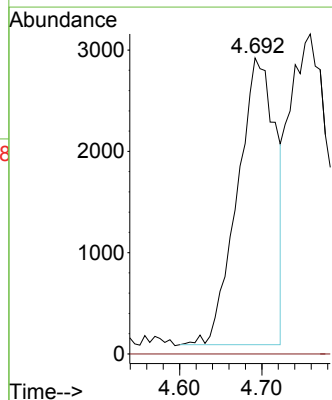
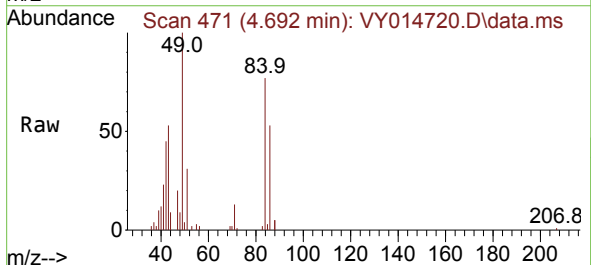
Instrument :
MSVOA_Y
ClientSampleId :
VIBLK

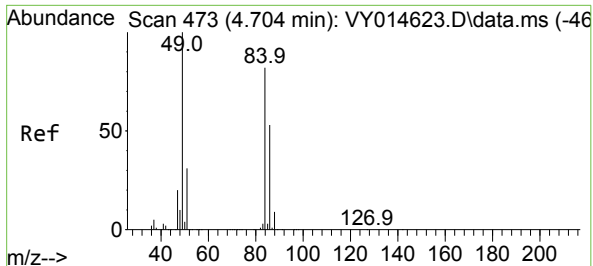
Tgt Ion: 43 Resp: 3180
Ion Ratio Lower Upper
43 100
58 29.8 22.7 34.1



#18
Methyl Acetate
Concen: 2.543 ug/l
RT: 4.692 min Scan# 471
Delta R.T. 0.220 min
Lab File: VY014720.D
Acq: 20 Jul 2023 14:54

Tgt Ion: 43 Resp: 9137
Ion Ratio Lower Upper
43 100
74 0.0 17.4 26.0#





#20

Methylene Chloride

Concen: 2.938 ug/l

RT: 4.710 min Scan# 41

Delta R.T. 0.006 min

Lab File: VY014720.D

Acq: 20 Jul 2023 14:54

Instrument :

MSVOA_Y

ClientSampleId :

VIBLK

Tgt Ion: 84 Resp: 21024

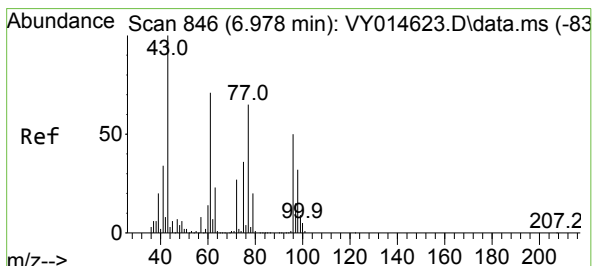
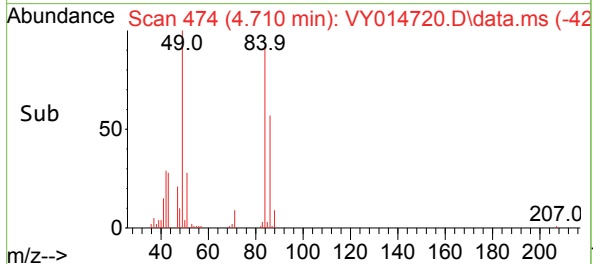
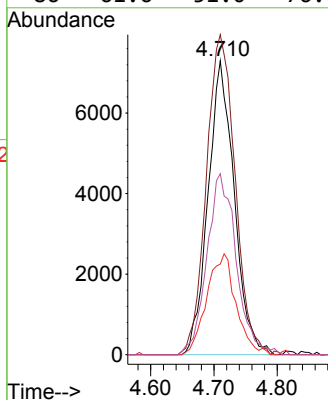
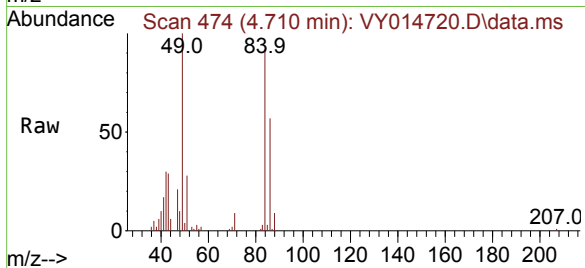
Ion Ratio Lower Upper

84 100

49 108.8 106.9 160.3

51 30.8 33.2 49.8#

86 61.6 51.0 76.6



#25

2-Butanone

Concen: 6.166 ug/l

RT: 6.984 min Scan# 847

Delta R.T. 0.006 min

Lab File: VY014720.D

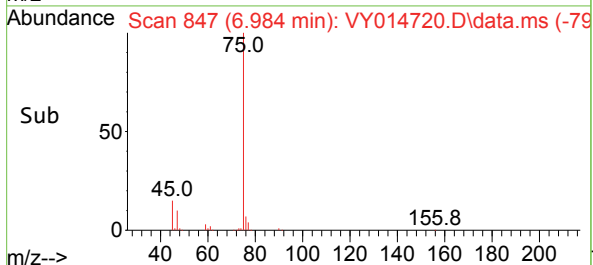
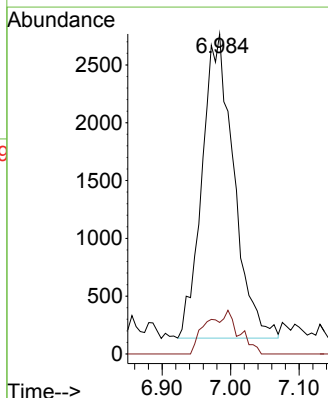
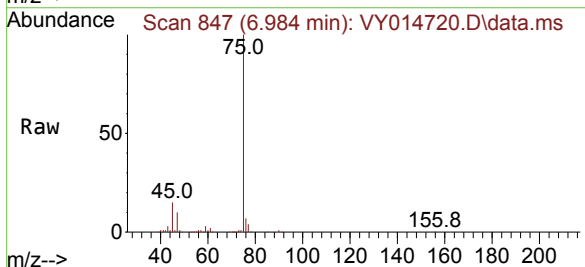
Acq: 20 Jul 2023 14:54

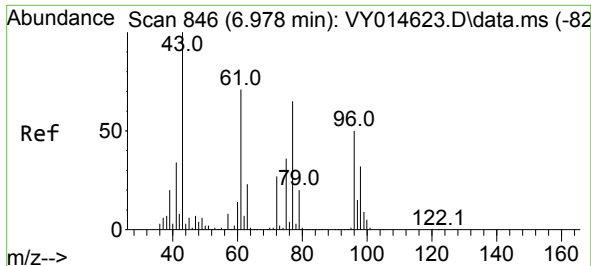
Tgt Ion: 43 Resp: 8446

Ion Ratio Lower Upper

43 100

72 10.4 20.5 30.7#

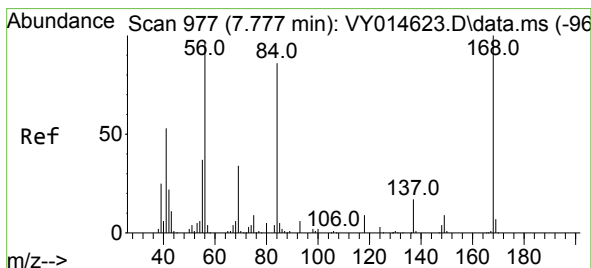
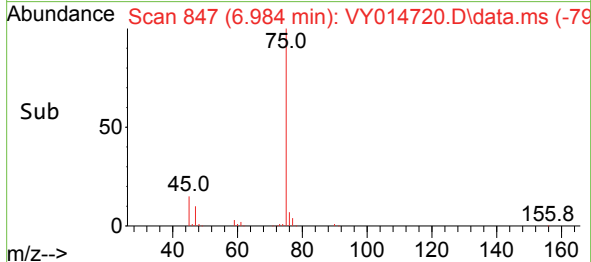
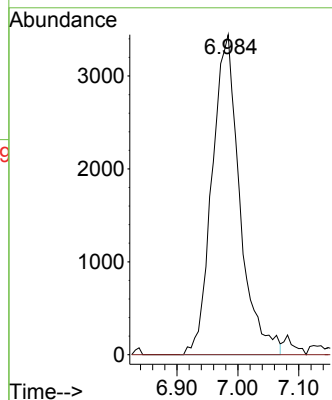
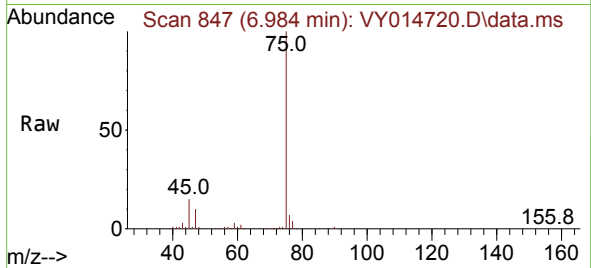




#26
2,2-Dichloropropane
Concen: 2.165 ug/l
RT: 6.984 min Scan# 846
Delta R.T. 0.006 min
Lab File: VY014720.D
Acq: 20 Jul 2023 14:54

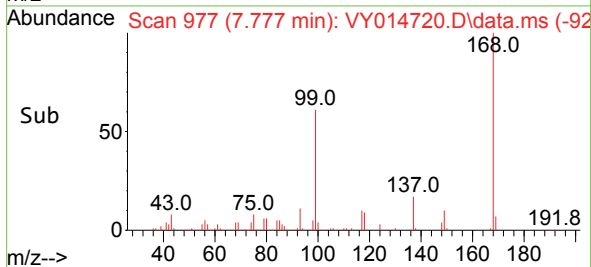
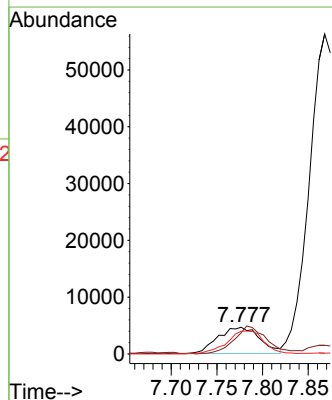
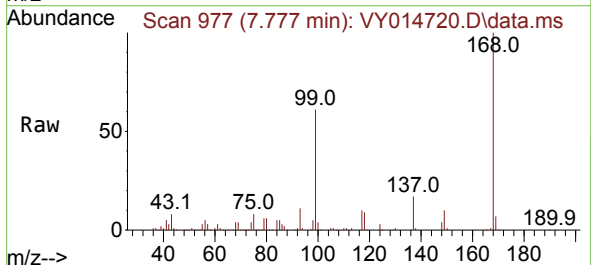
Instrument :
MSVOA_Y
ClientSampleId :
VIBLK

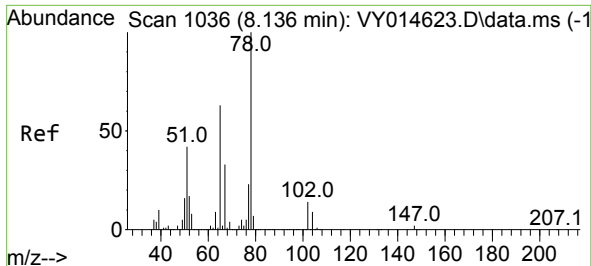
Tgt Ion: 77 Resp: 10883
Ion Ratio Lower Upper
77 100
97 0.0 10.9 32.9#



#31
Cyclohexane
Concen: 3.028 ug/l
RT: 7.777 min Scan# 977
Delta R.T. -0.000 min
Lab File: VY014720.D
Acq: 20 Jul 2023 14:54

Tgt Ion: 56 Resp: 14852
Ion Ratio Lower Upper
56 100
69 78.3 27.8 41.6#
84 86.4 66.4 99.6





#33

1,2-Dichloroethane-d4

Concen: 53.871 ug/l

RT: 8.142 min Scan# 1

Delta R.T. 0.006 min

Lab File: VY014720.D

Acq: 20 Jul 2023 14:54

Instrument :

MSVOA_Y

ClientSampleId :

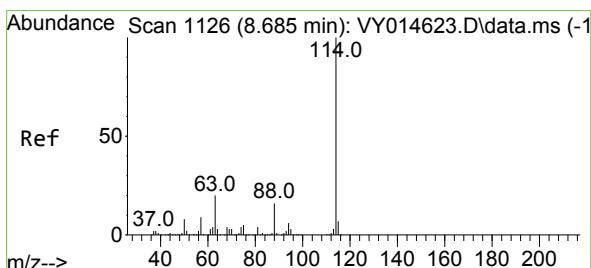
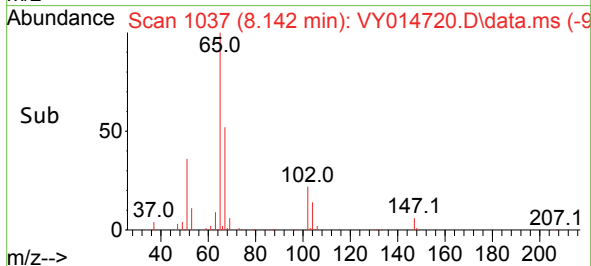
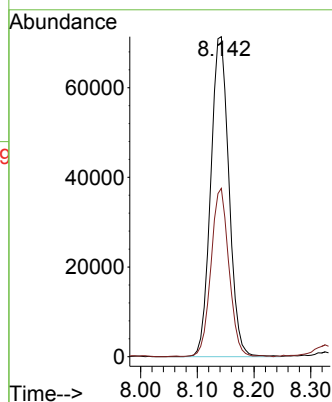
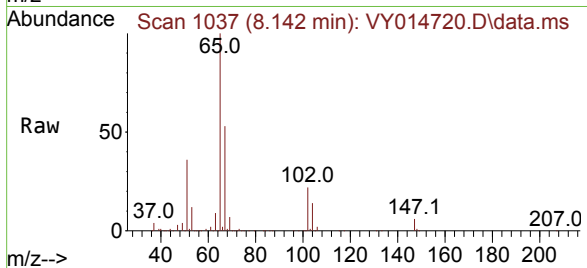
VIBLK

Tgt Ion: 65 Resp: 159158

Ion Ratio Lower Upper

65 100

67 51.6 0.0 101.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VY014720.D

Acq: 20 Jul 2023 14:54

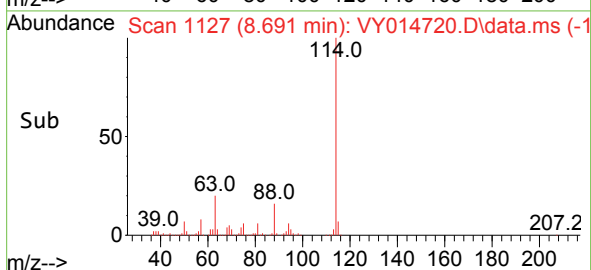
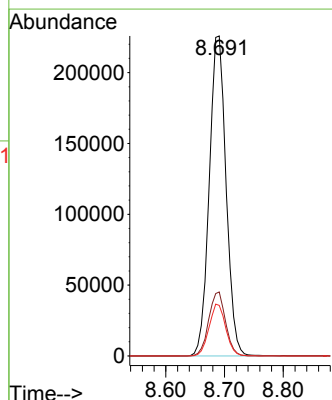
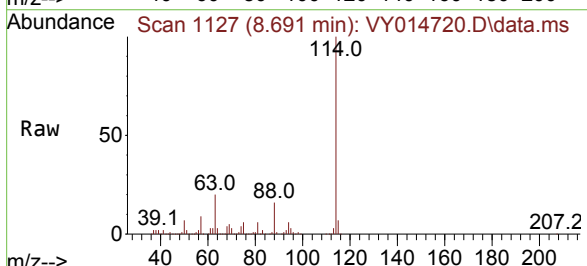
Tgt Ion: 114 Resp: 448635

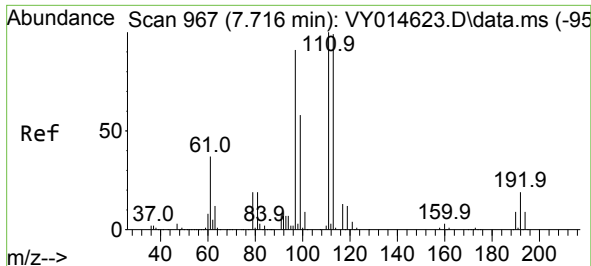
Ion Ratio Lower Upper

114 100

63 20.0 0.0 42.4

88 15.8 0.0 30.6

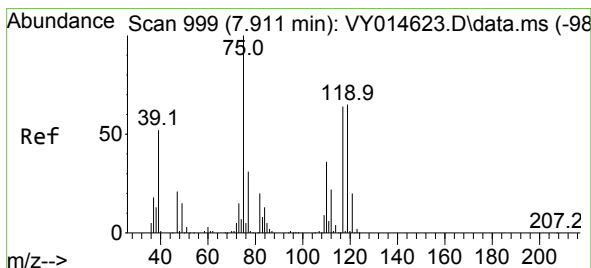
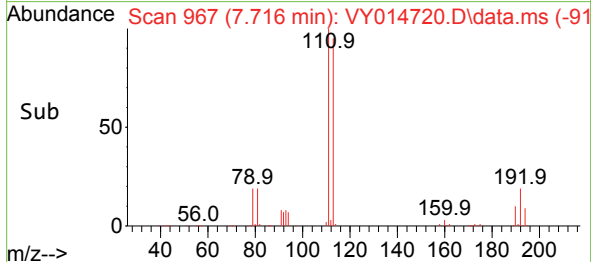
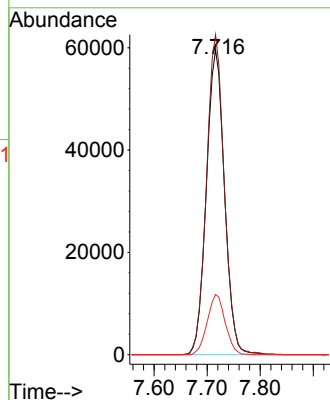
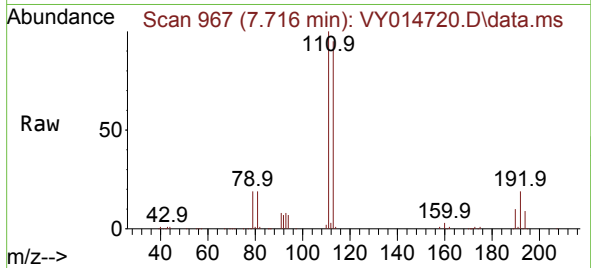




#35
Dibromofluoromethane
Concen: 49.484 ug/l
RT: 7.716 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY014720.D
Acq: 20 Jul 2023 14:54

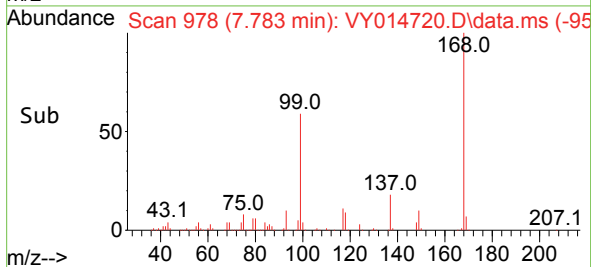
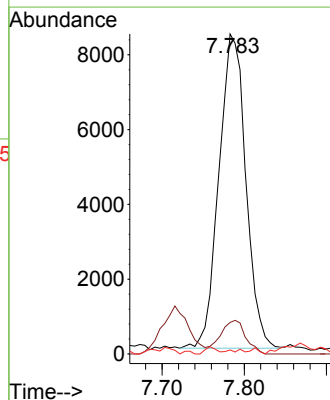
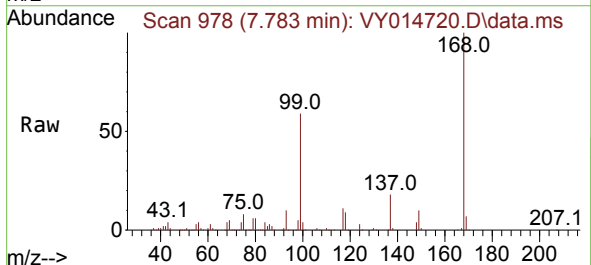
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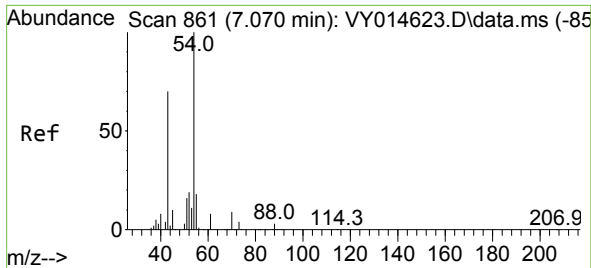
Tgt Ion:113 Resp: 141321
Ion Ratio Lower Upper
113 100
111 103.2 81.3 121.9
192 19.6 16.9 25.3



#36
1,1-Dichloropropene
Concen: 4.473 ug/l
RT: 7.783 min Scan# 978
Delta R.T. -0.128 min
Lab File: VY014720.D
Acq: 20 Jul 2023 14:54

Tgt Ion: 75 Resp: 19102
Ion Ratio Lower Upper
75 100
110 10.1 17.8 53.5#
77 0.1 24.4 36.6#





#37

Ethyl Acetate

Concen: 2.872 ug/l

RT: 6.984 min Scan# 84

Delta R.T. -0.086 min

Lab File: VY014720.D

Acq: 20 Jul 2023 14:54

Instrument :

MSVOA_Y

ClientSampleId :

VIBLK

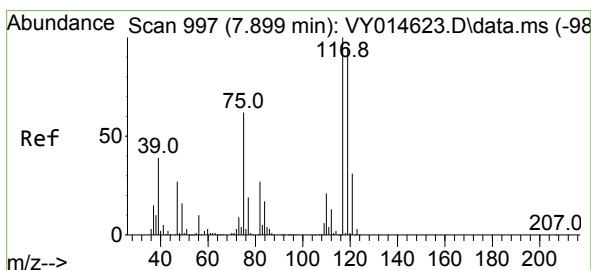
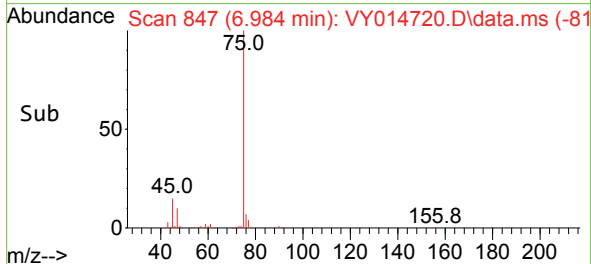
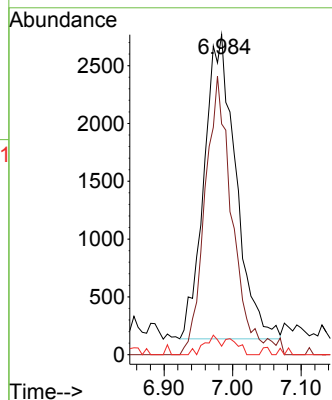
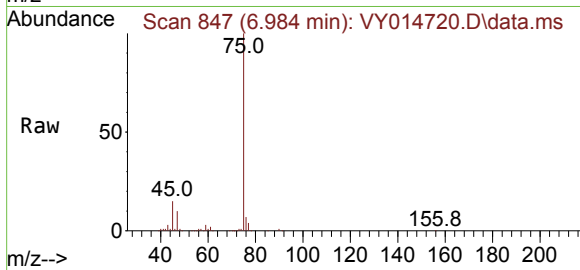
Tgt Ion: 43 Resp: 8446

Ion Ratio Lower Upper

43 100

61 77.7 10.1 15.1#

70 3.1 7.1 10.7#



#38

Carbon Tetrachloride

Concen: 5.747 ug/l

RT: 7.783 min Scan# 978

Delta R.T. -0.116 min

Lab File: VY014720.D

Acq: 20 Jul 2023 14:54

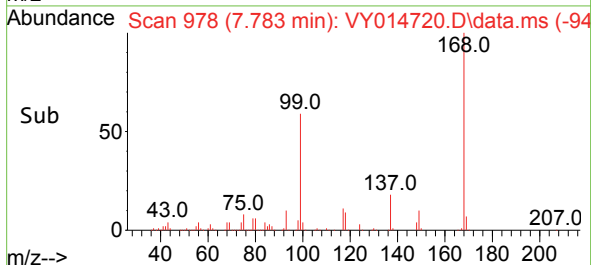
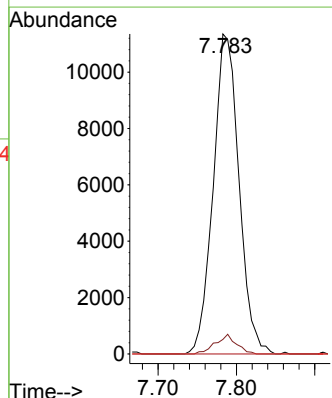
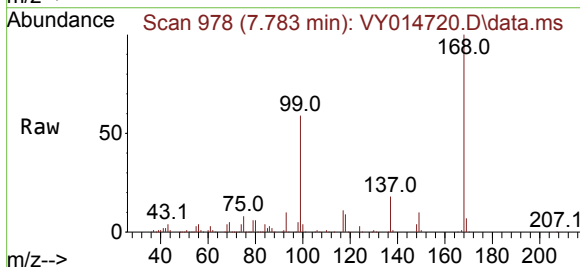
Tgt Ion: 117 Resp: 25947

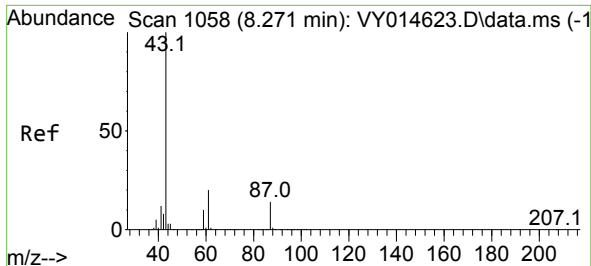
Ion Ratio Lower Upper

117 100

119 4.5 76.4 114.6#

121 0.0 25.8 38.6#

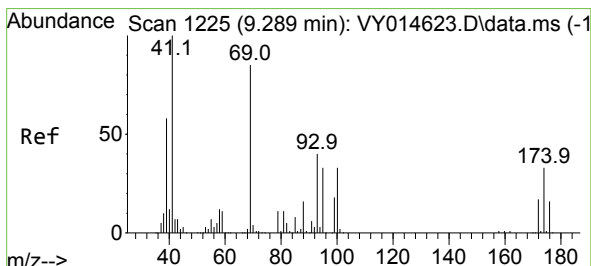
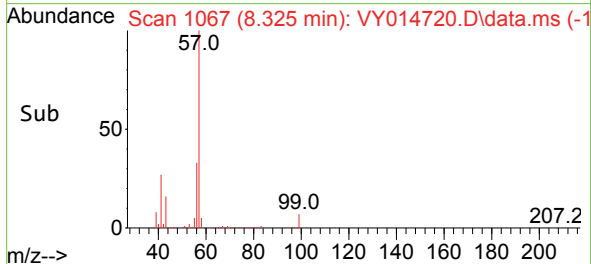
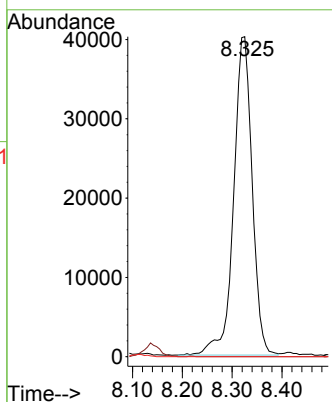
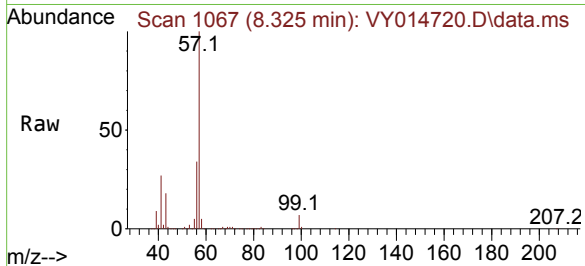




#43
Isopropyl Acetate
Concen: 18.486 ug/l
RT: 8.325 min Scan# 1067
Delta R.T. 0.054 min
Lab File: VY014720.D
Acq: 20 Jul 2023 14:54

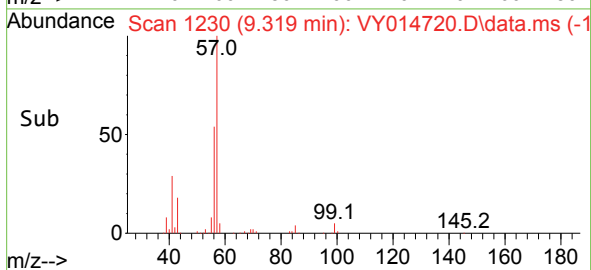
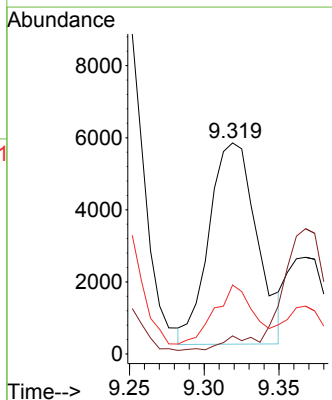
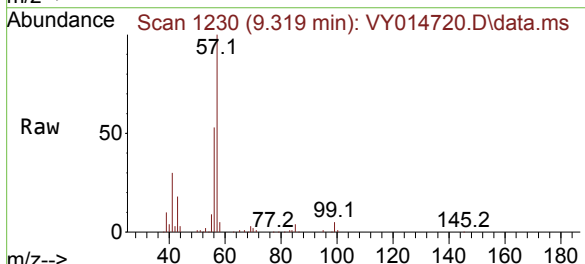
Instrument :
MSVOA_Y
ClientSampleId :
VIBLK

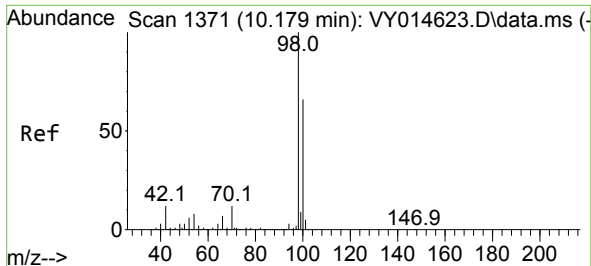
Tgt Ion: 43 Resp: 103548
Ion Ratio Lower Upper
43 100
61 0.0 21.1 31.7#
87 0.0 9.8 14.8#



#48
Methyl methacrylate
Concen: 4.922 ug/l
RT: 9.319 min Scan# 1230
Delta R.T. 0.030 min
Lab File: VY014720.D
Acq: 20 Jul 2023 14:54

Tgt Ion: 41 Resp: 12405
Ion Ratio Lower Upper
41 100
69 2.7 64.5 96.7#
39 24.5 50.8 76.2#

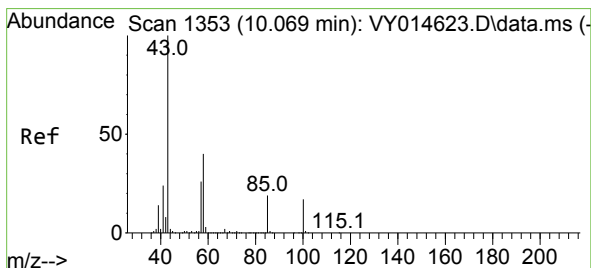
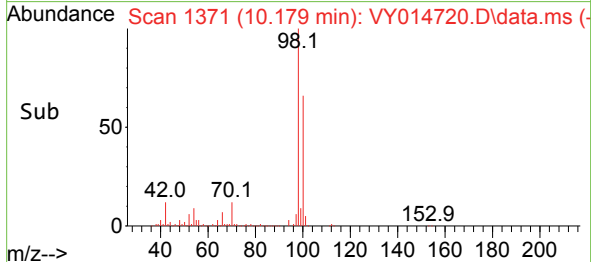
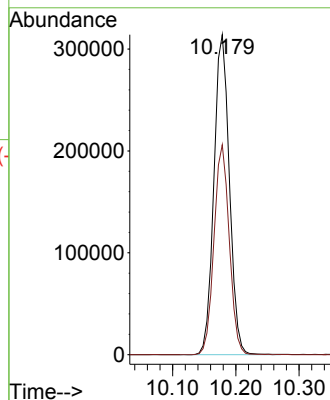
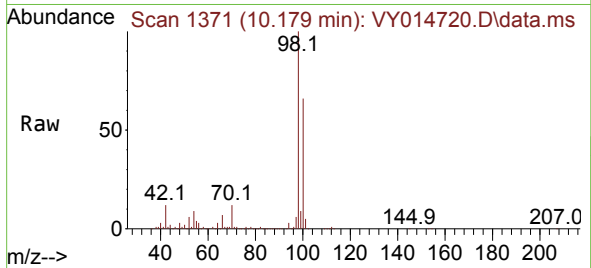




#50
Toluene-d8
Concen: 50.572 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. -0.000 min
Lab File: VY014720.D
Acq: 20 Jul 2023 14:54

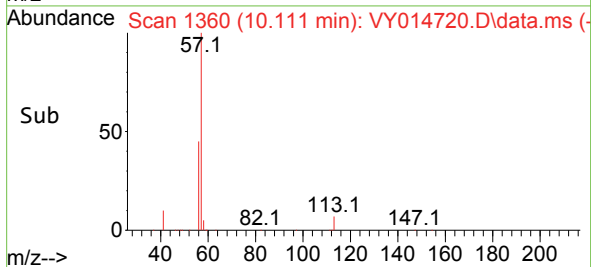
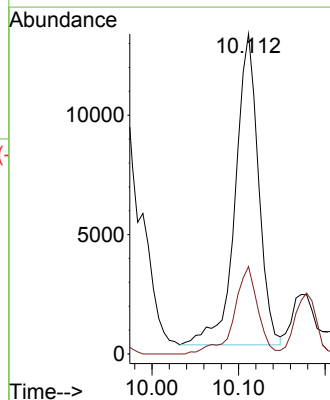
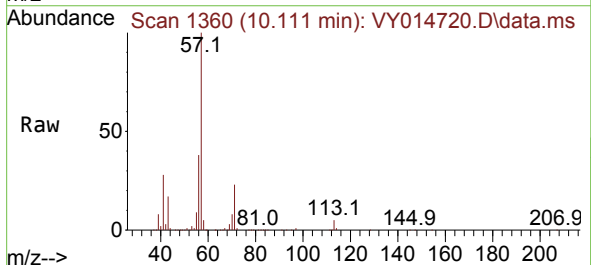
Instrument :
MSVOA_Y
ClientSampleId :
VIBLK

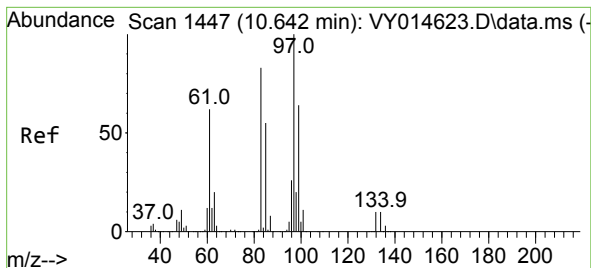
Tgt Ion: 98 Resp: 532482
Ion Ratio Lower Upper
98 100
100 64.7 50.1 75.1



#51
4-Methyl-2-Pentanone
Concen: 8.246 ug/l
RT: 10.111 min Scan# 1360
Delta R.T. 0.042 min
Lab File: VY014720.D
Acq: 20 Jul 2023 14:54

Tgt Ion: 43 Resp: 24250
Ion Ratio Lower Upper
43 100
58 28.9 29.0 43.6#





#55

1,1,2-Trichloroethane

Concen: 5.631 ug/l

RT: 10.618 min Scan# 1443

Delta R.T. -0.024 min

Lab File: VY014720.D

Acq: 20 Jul 2023 14:54

Instrument :

MSVOA_Y

ClientSampleId :

VIBLK

Tgt Ion: 97 Resp: 15093

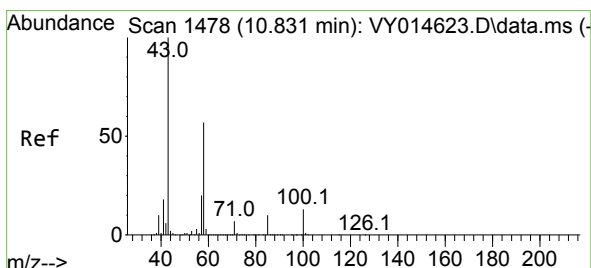
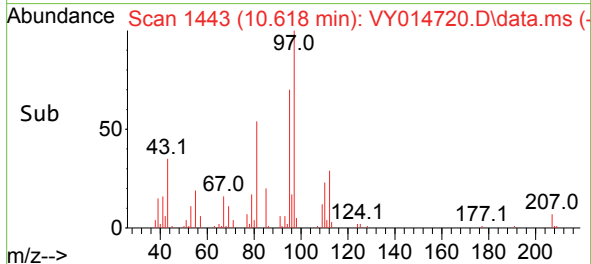
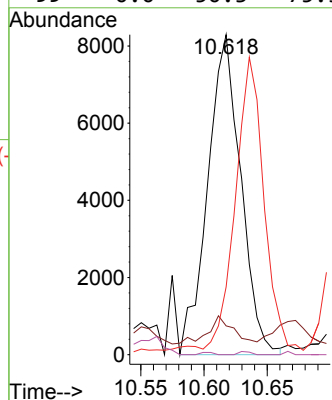
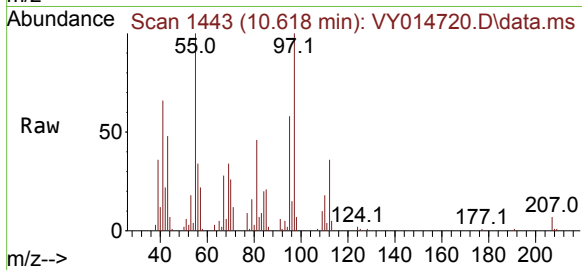
Ion Ratio Lower Upper

97 100

83 5.4 72.0 108.0#

85 18.7 45.4 68.0#

99 0.0 50.3 75.5#



#59

2-Hexanone

Concen: 6.832 ug/l

RT: 10.800 min Scan# 1473

Delta R.T. -0.031 min

Lab File: VY014720.D

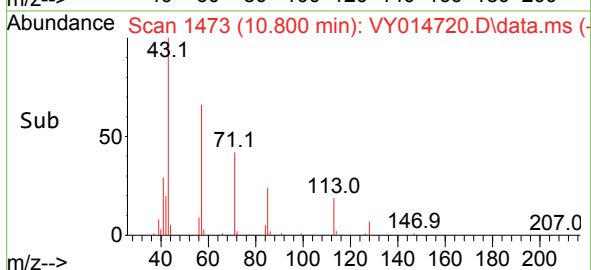
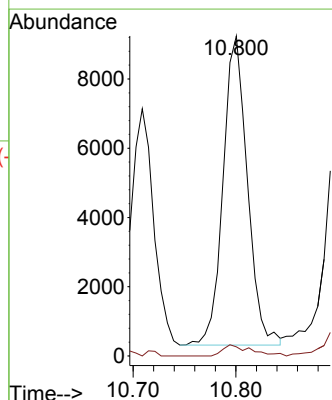
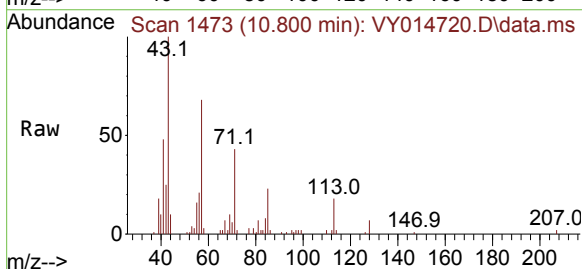
Acq: 20 Jul 2023 14:54

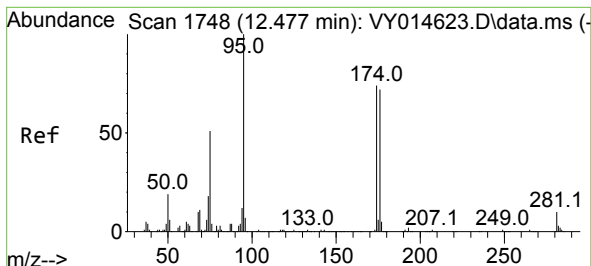
Tgt Ion: 43 Resp: 14653

Ion Ratio Lower Upper

43 100

58 4.2 25.1 75.3#

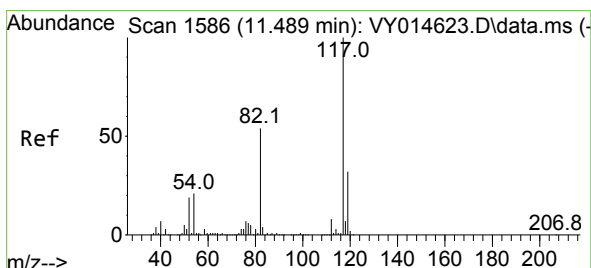
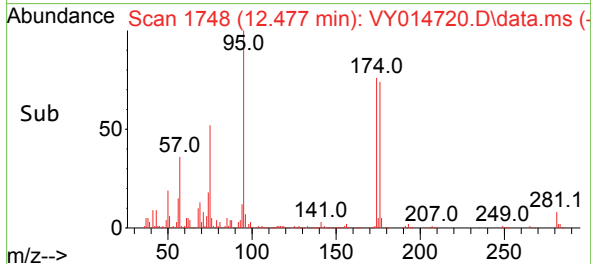
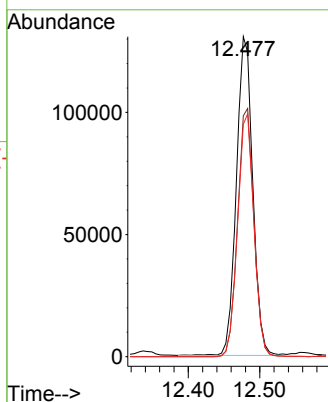
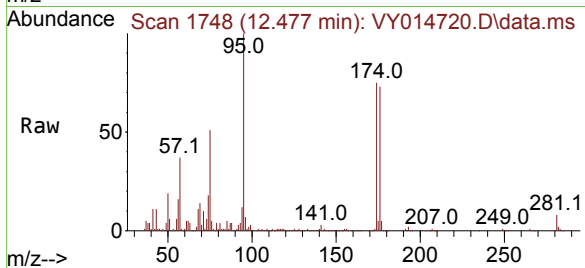




#62
4-Bromofluorobenzene
Concen: 51.350 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. -0.000 min
Lab File: VY014720.D
Acq: 20 Jul 2023 14:54

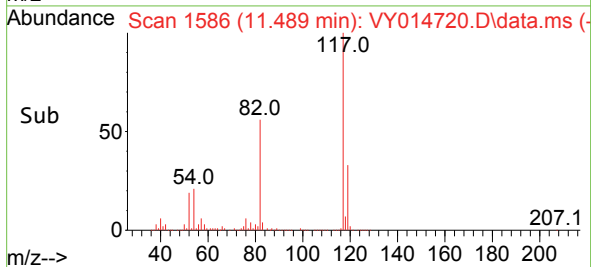
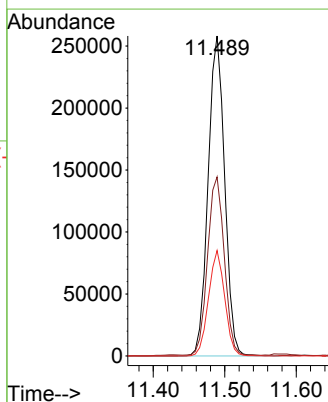
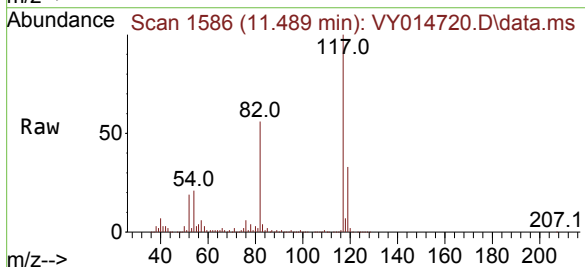
Instrument :
MSVOA_Y
ClientSampleId :
VIBLK

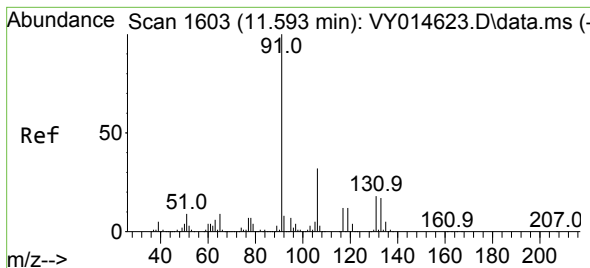
Tgt Ion: 95 Resp: 207312
Ion Ratio Lower Upper
95 100
174 77.8 0.0 178.2
176 75.7 0.0 173.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.489 min Scan# 1586
Delta R.T. 0.000 min
Lab File: VY014720.D
Acq: 20 Jul 2023 14:54

Tgt Ion: 117 Resp: 414729
Ion Ratio Lower Upper
117 100
82 55.7 43.4 65.0
119 32.9 26.3 39.5





#67

Ethyl Benzene

Concen: 1.747 ug/l

RT: 11.593 min Scan# 1

Delta R.T. -0.000 min

Lab File: VY014720.D

Acq: 20 Jul 2023 14:54

Instrument :

MSVOA_Y

ClientSampleId :

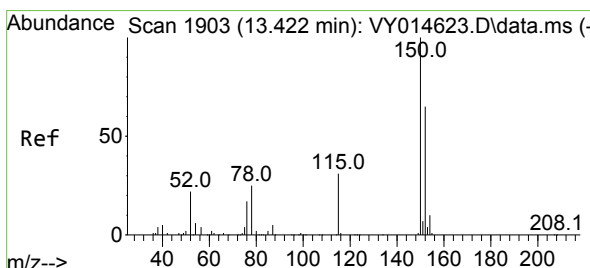
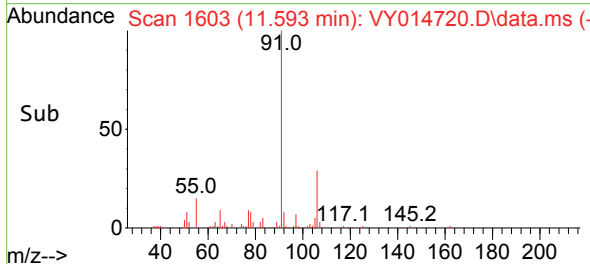
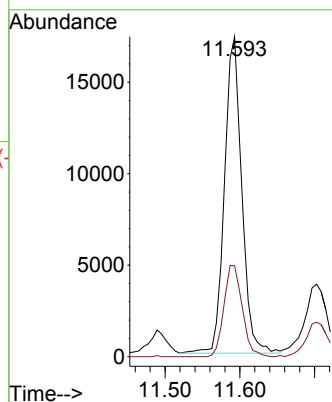
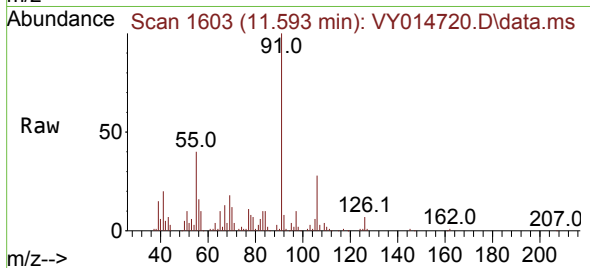
VIBLK

Tgt Ion: 91 Resp: 27881

Ion Ratio Lower Upper

91 100

106 28.7 24.6 36.8



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.422 min Scan# 1903

Delta R.T. -0.000 min

Lab File: VY014720.D

Acq: 20 Jul 2023 14:54

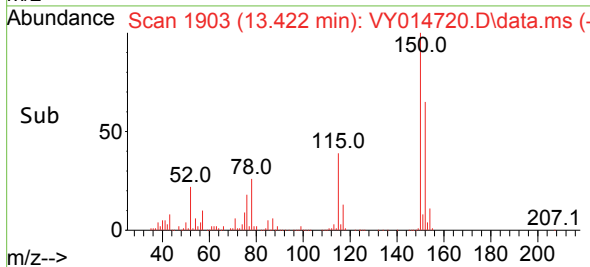
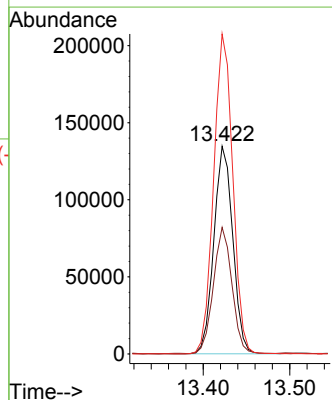
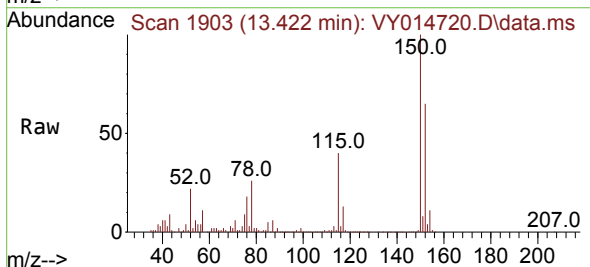
Tgt Ion:152 Resp: 204448

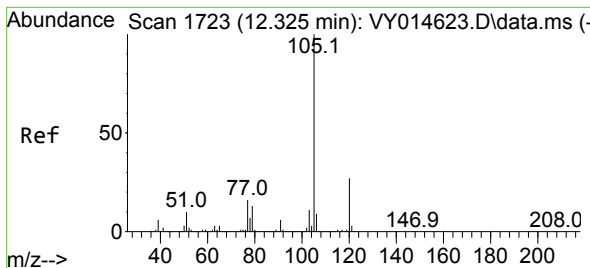
Ion Ratio Lower Upper

152 100

115 59.7 28.8 86.5

150 155.8 0.0 348.8





#73

Isopropylbenzene

Concen: 1.233 ug/l

RT: 12.325 min Scan# 1

Delta R.T. -0.000 min

Lab File: VY014720.D

Acq: 20 Jul 2023 14:54

Instrument :

MSVOA_Y

ClientSampleId :

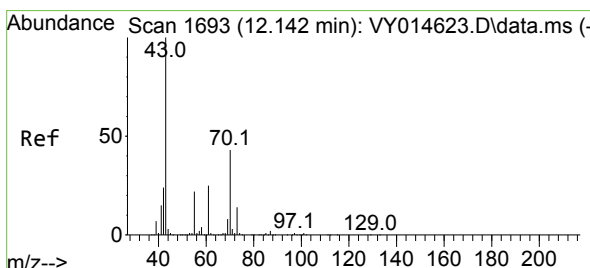
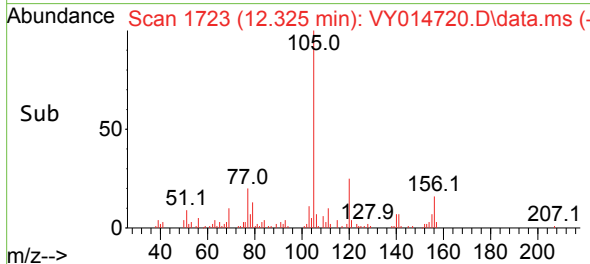
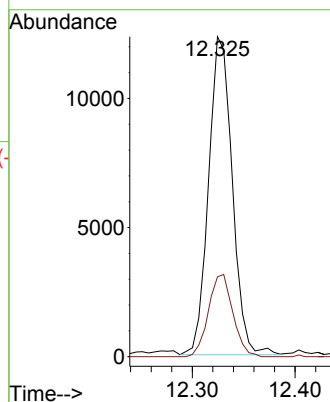
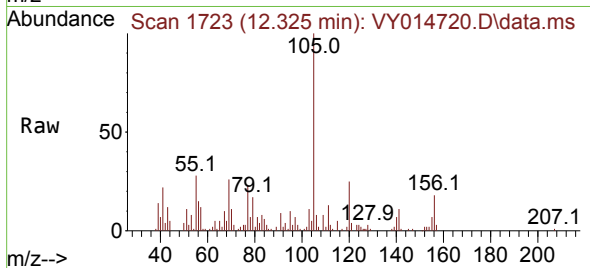
VIBLK

Tgt Ion:105 Resp: 19744

Ion Ratio Lower Upper

105 100

120 26.5 13.3 39.9



#74

N-ethyl acetate

Concen: 2.989 ug/l

RT: 12.117 min Scan# 1689

Delta R.T. -0.025 min

Lab File: VY014720.D

Acq: 20 Jul 2023 14:54

Tgt Ion: 43 Resp: 16025

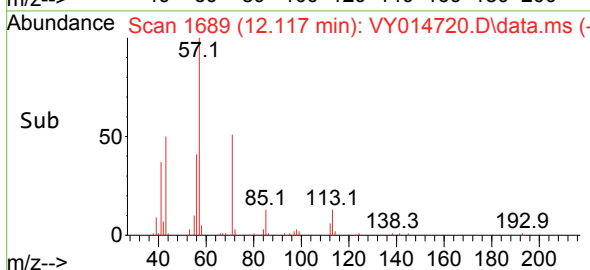
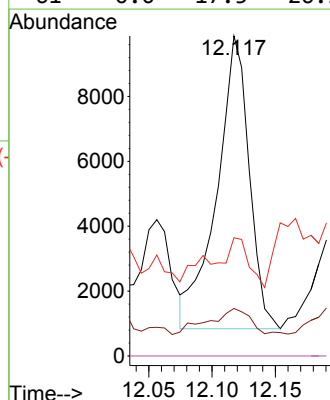
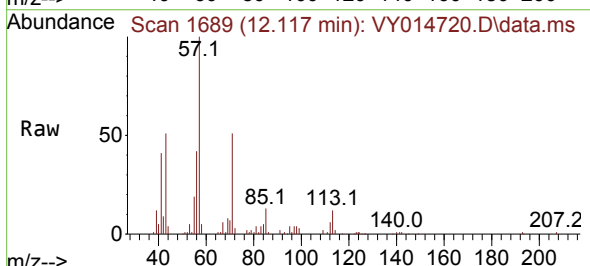
Ion Ratio Lower Upper

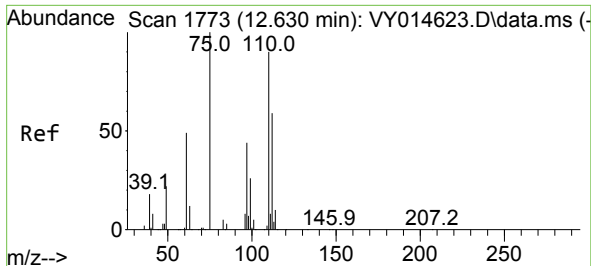
43 100

70 11.5 29.7 44.5#

55 9.2 18.3 27.5#

61 0.0 17.5 26.3#

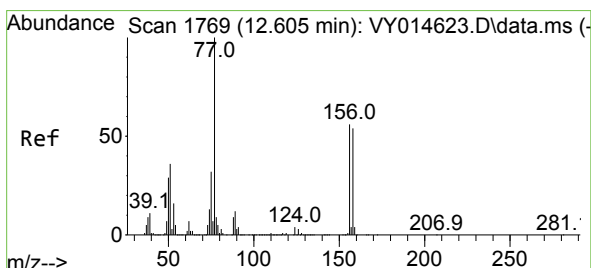
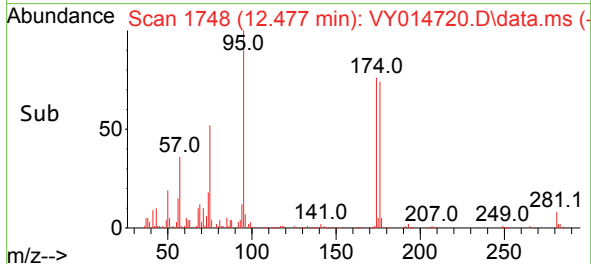
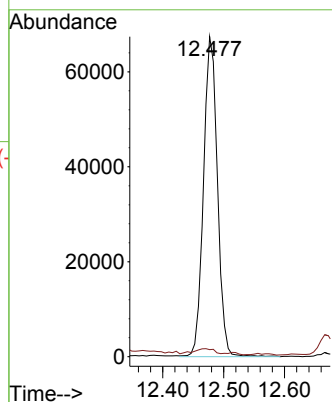
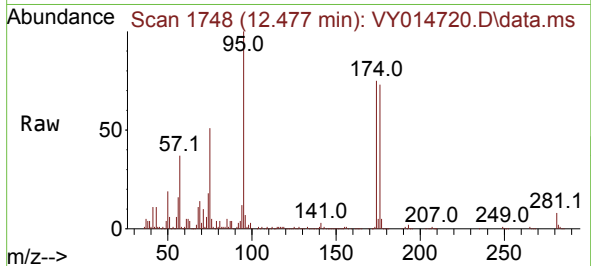




#76
1,2,3-Trichloropropane
Concen: 41.550 ug/l
RT: 12.477 min Scan# 1734
Delta R.T. -0.153 min
Lab File: VY014720.D
Acq: 20 Jul 2023 14:54

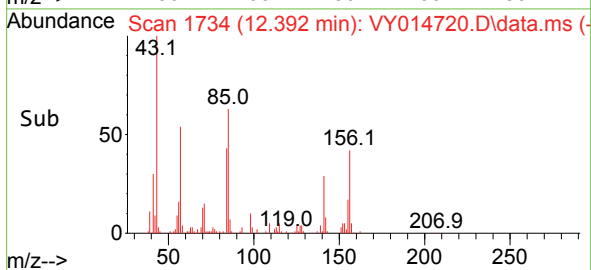
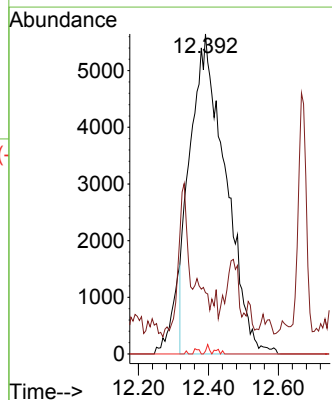
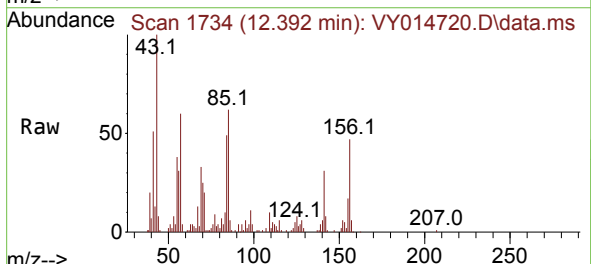
Instrument :
MSVOA_Y
ClientSampleId :
VIBLK

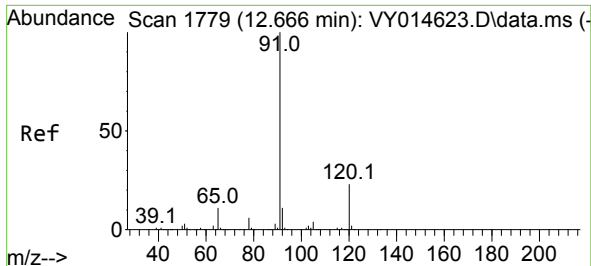
Tgt Ion: 75 Resp: 107288
Ion Ratio Lower Upper
75 100
77 2.0 0.0 0.0#



#77
Bromobenzene
Concen: 10.808 ug/l
RT: 12.392 min Scan# 1734
Delta R.T. -0.213 min
Lab File: VY014720.D
Acq: 20 Jul 2023 14:54

Tgt Ion: 156 Resp: 39496
Ion Ratio Lower Upper
156 100
77 0.0 92.8 278.6#
158 0.3 48.4 145.3#

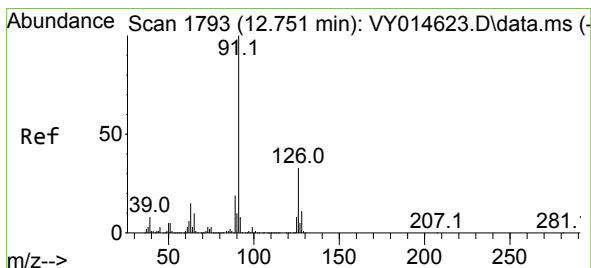
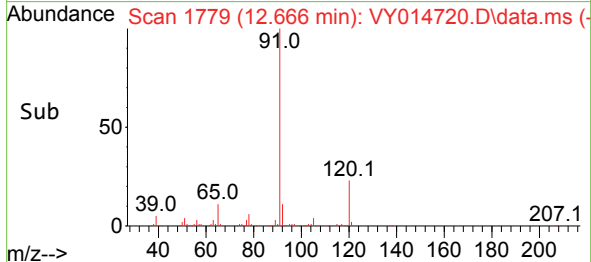
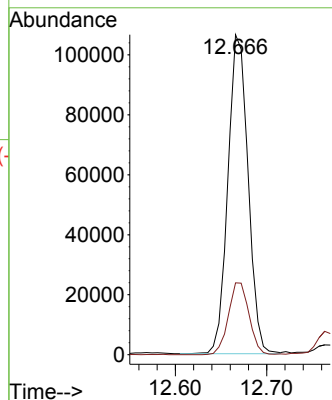
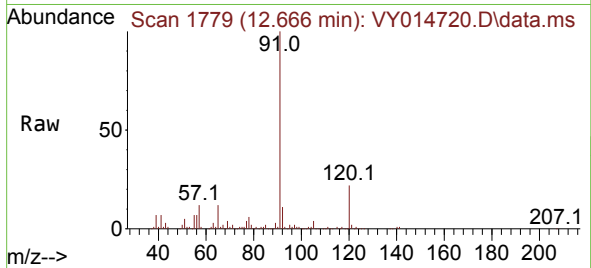




#78
n-propylbenzene
Concen: 8.470 ug/l
RT: 12.666 min Scan# 1779
Delta R.T. -0.000 min
Lab File: VY014720.D
Acq: 20 Jul 2023 14:54

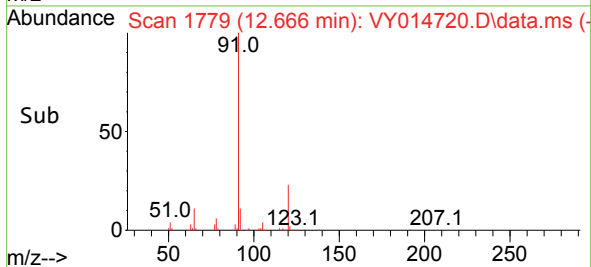
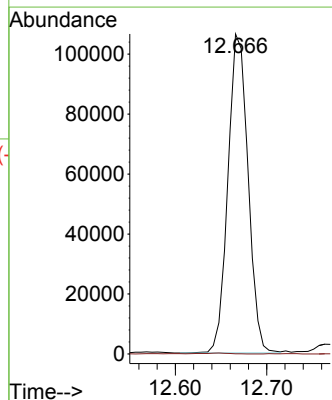
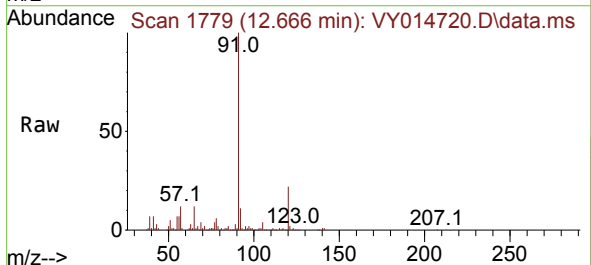
Instrument :
MSVOA_Y
ClientSampleId :
VIBLK

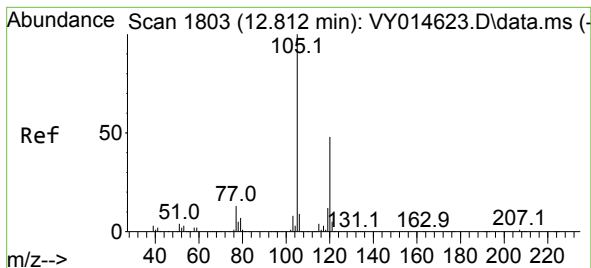
Tgt Ion: 91 Resp: 163383
Ion Ratio Lower Upper
91 100
120 23.1 11.5 34.4



#79
2-Chlorotoluene
Concen: 14.705 ug/l
RT: 12.666 min Scan# 1779
Delta R.T. -0.085 min
Lab File: VY014720.D
Acq: 20 Jul 2023 14:54

Tgt Ion: 91 Resp: 163383
Ion Ratio Lower Upper
91 100
126 0.4 17.3 51.7#





#80

1,3,5-Trimethylbenzene

Concen: 2.898 ug/l

RT: 12.763 min Scan# 11

Delta R.T. -0.049 min

Lab File: VY014720.D

Acq: 20 Jul 2023 14:54

Instrument :

MSVOA_Y

ClientSampleId :

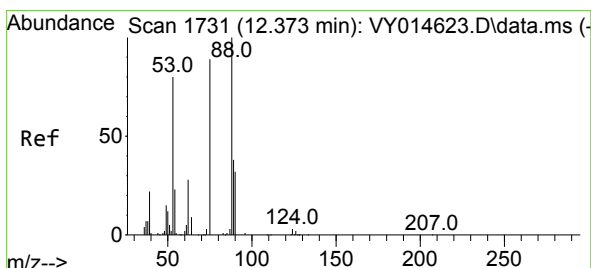
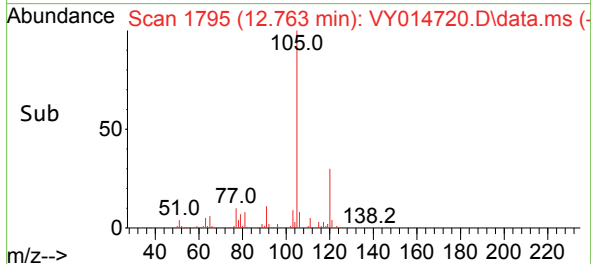
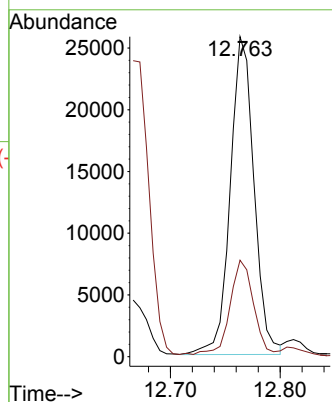
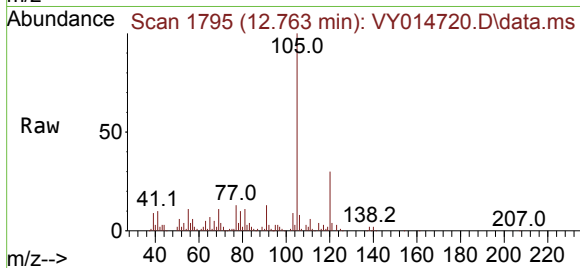
VIBLK

Tgt Ion:105 Resp: 38747

Ion Ratio Lower Upper

105 100

120 31.3 23.9 71.7



#81

trans-1,4-Dichloro-2-butene

Concen: 80.449 ug/l

RT: 12.477 min Scan# 1748

Delta R.T. 0.104 min

Lab File: VY014720.D

Acq: 20 Jul 2023 14:54

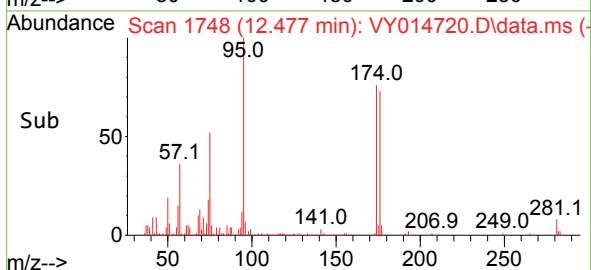
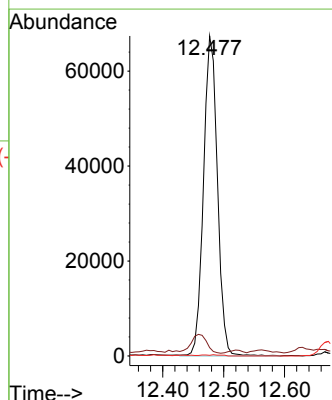
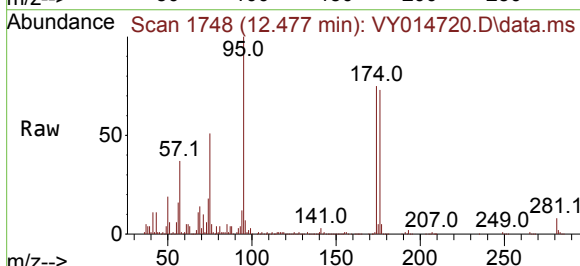
Tgt Ion: 75 Resp: 107288

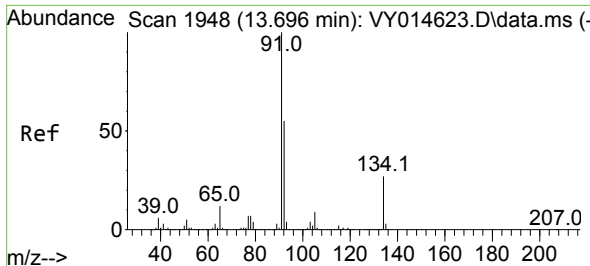
Ion Ratio Lower Upper

75 100

53 0.0 77.8 116.8#

89 0.5 37.4 56.0#

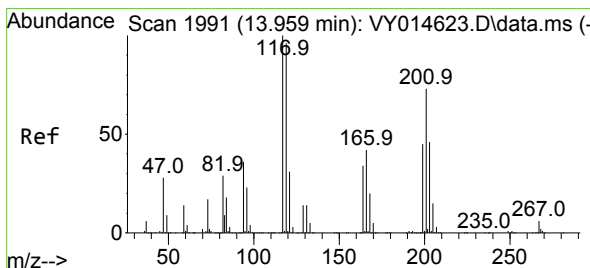
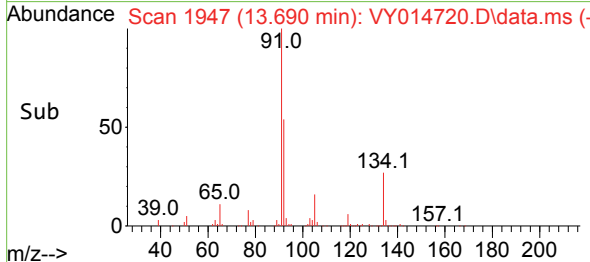
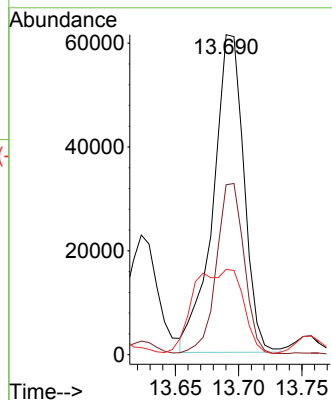
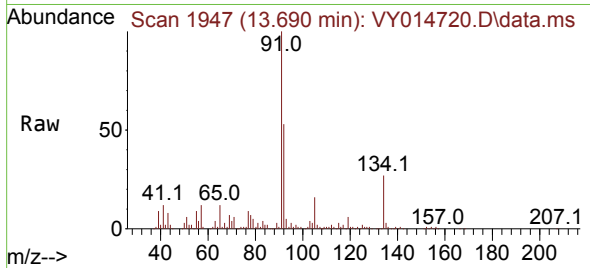




#89
n-Butylbenzene
Concen: 7.500 ug/l
RT: 13.690 min Scan# 1948
Delta R.T. -0.006 min
Lab File: VY014720.D
Acq: 20 Jul 2023 14:54

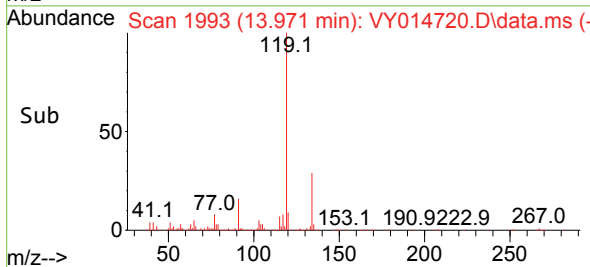
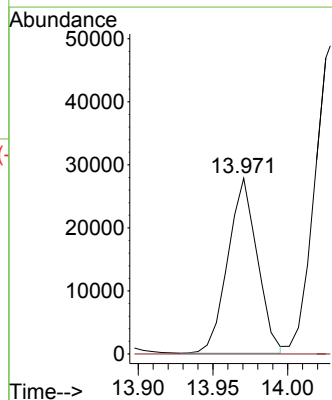
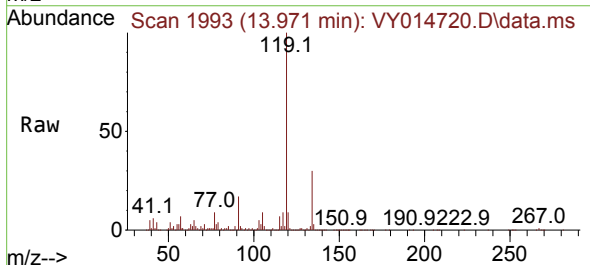
Instrument :
MSVOA_Y
ClientSampleId :
VIBLK

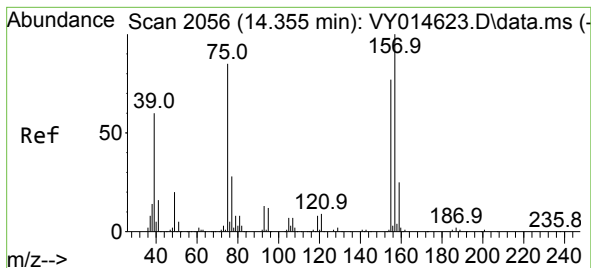
Tgt Ion: 91 Resp: 103648
Ion Ratio Lower Upper
91 100
92 48.3 25.4 76.0
134 43.2 12.6 37.6#



#90
Hexachloroethane
Concen: 13.012 ug/l
RT: 13.971 min Scan# 1993
Delta R.T. 0.012 min
Lab File: VY014720.D
Acq: 20 Jul 2023 14:54

Tgt Ion: 117 Resp: 37964
Ion Ratio Lower Upper
117 100
201 0.0 41.6 124.8#

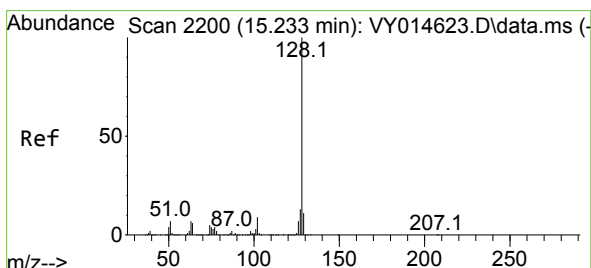
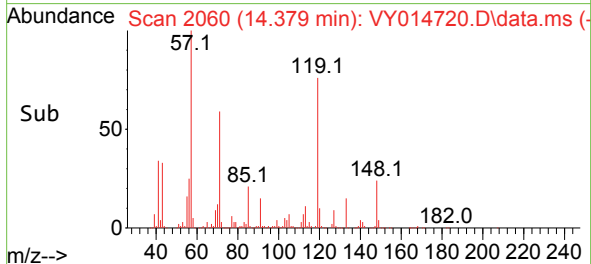
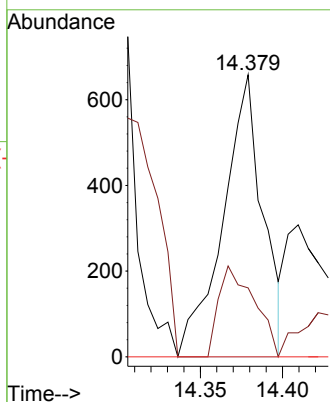
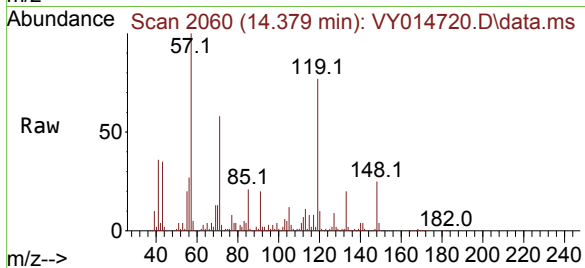




#92
1,2-Dibromo-3-Chloropropane
Concen: 1.586 ug/l
RT: 14.379 min Scan# 2056
Delta R.T. 0.024 min
Lab File: VY014720.D
Acq: 20 Jul 2023 14:54

Instrument :
MSVOA_Y
ClientSampleId :
VIBLK

Tgt Ion: 75 Resp: 1107
Ion Ratio Lower Upper
75 100
155 28.9 41.5 124.6#
157 0.0 51.8 155.5#



#95
Naphthalene
Concen: 126.060 ug/l
RT: 15.233 min Scan# 2200
Delta R.T. -0.000 min
Lab File: VY014720.D
Acq: 20 Jul 2023 14:54

Tgt Ion:128 Resp: 1214785
Ion Ratio Lower Upper
128 100
127 13.9 10.8 16.2
129 10.9 8.6 13.0

