

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081523\
 Data File : VY015102.D
 Acq On : 15 Aug 2023 14:44
 Operator : SY/MD
 Sample : 03989-01
 Misc : 5.03g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Aug 16 02:04:22 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081423S.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 14 12:43:26 2023
 Response via : Initial Calibration

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

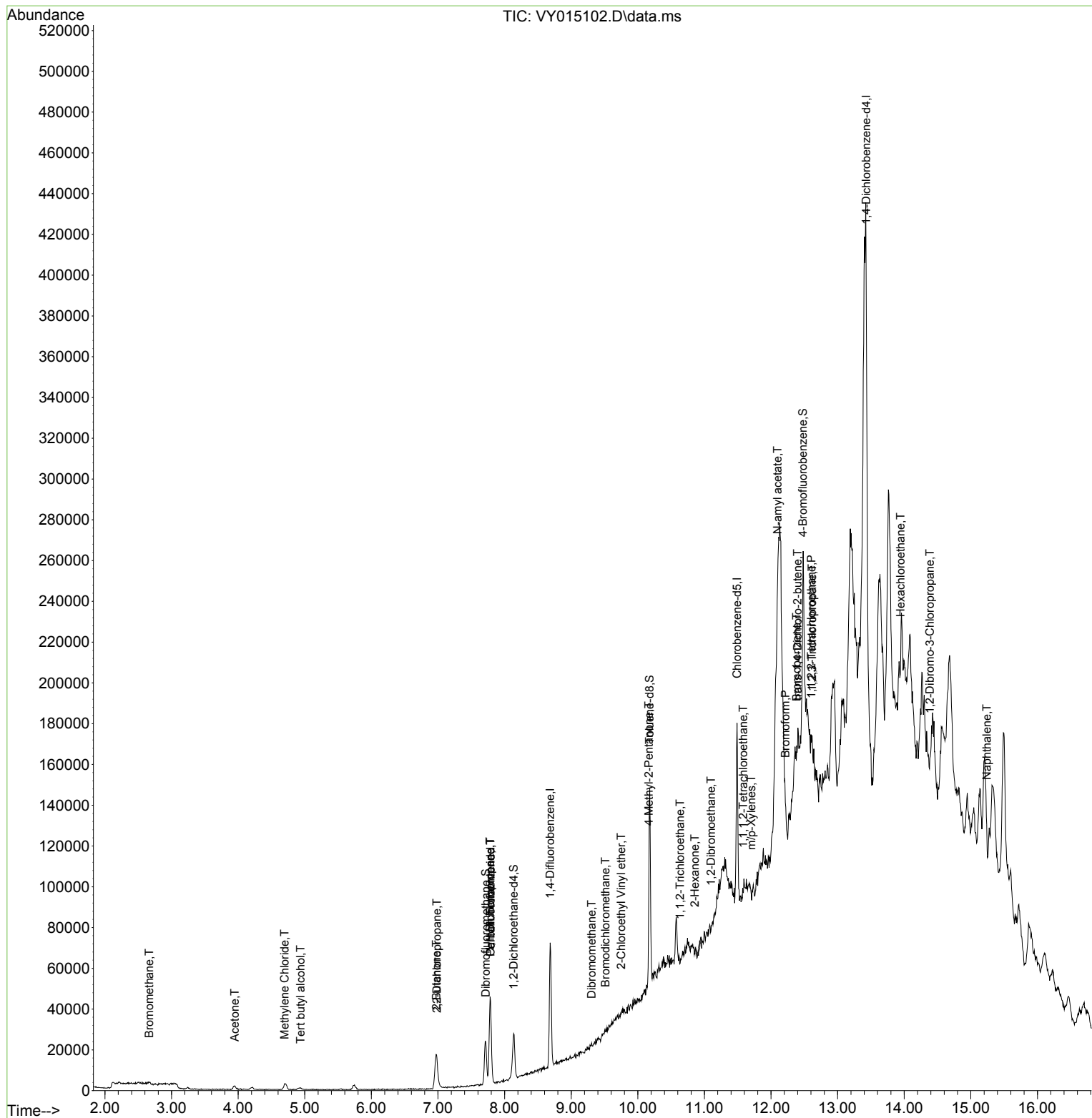
Internal Standards						
1) Pentafluorobenzene	7.789	168	33549	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	52735	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	48445	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	27462	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.136	65	16315	40.512	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	81.020%
35) Dibromofluoromethane	7.716	113	15305	45.113	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	90.220%
50) Toluene-d8	10.179	98	63111	49.972	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	99.940%
62) 4-Bromofluorobenzene	12.477	95	35048	75.980	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	151.960%#
Target Compounds						Qvalue
3) Chloromethane	2.113	50	333	Below Cal		91
5) Bromomethane	2.662	94	499	1.376	ug/l #	70
11) Tert butyl alcohol	4.936	59	1321	3.980	ug/l #	89
13) Acrolein	3.723	56	19	Below Cal	#	1
16) Acetone	3.948	43	3535	26.869	ug/l	94
20) Methylene Chloride	4.698	84	2477	3.866	ug/l #	73
25) 2-Butanone	6.978	43	1324	7.108	ug/l #	49
26) 2,2-Dichloropropane	6.984	77	1448	2.686	ug/l #	57
36) 1,1-Dichloropropene	7.783	75	2628	7.002	ug/l #	54
38) Carbon Tetrachloride	7.789	117	3297	7.422	ug/l #	19
46) Dibromomethane	9.307	93	342	1.695	ug/l #	1
47) Bromodichloromethane	9.514	83	649	1.348	ug/l #	23
51) 4-Methyl-2-Pentanone	10.167	43	2477	6.708	ug/l	91
55) 1,1,2-Trichloroethane	10.636	97	715	2.330	ug/l #	28
58) 2-Chloroethyl Vinyl ether	9.752	63	239	1.144	ug/l #	22
59) 2-Hexanone	10.855	43	534	1.954	ug/l	74
61) 1,2-Dibromoethane	11.099	107	455	1.561	ug/l #	2
66) 1,1,1,2-Tetrachloroethane	11.581	131	532	1.485	ug/l #	9
68) m/p-Xylenes	11.703	106	683	1.163	ug/l #	23
71) Bromoform	12.215	173	1071	4.125	ug/l #	41
74) N-amyl acetate	12.099	43	10442	16.378	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.605	83	1441	3.133	ug/l #	9
76) 1,2,3-Trichloropropane	12.617	75	472	1.415	ug/l #	100
77) Bromobenzene	12.386	156	11699	27.179	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.398	75	540	3.555	ug/l #	72
90) Hexachloroethane	13.946	117	542	1.670	ug/l	72
92) 1,2-Dibromo-3-Chloropr...	14.385	75	234	2.626	ug/l #	15
95) Naphthalene	15.239	128	1770	1.388	ug/l #	80

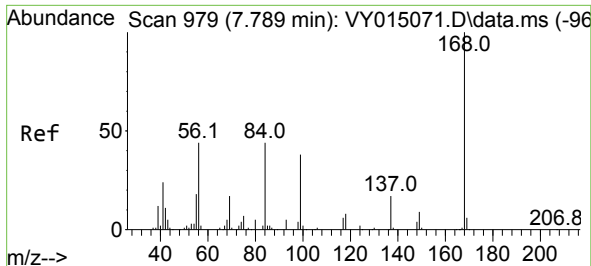
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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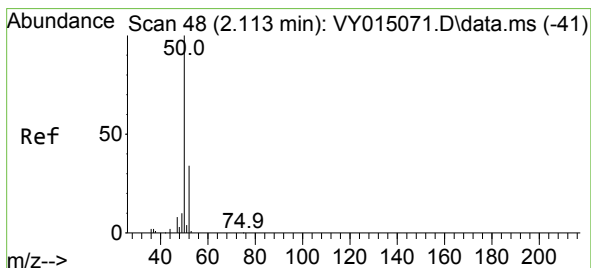
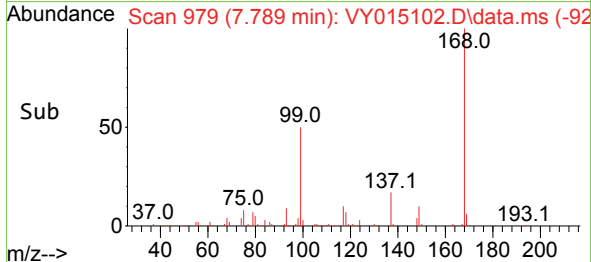
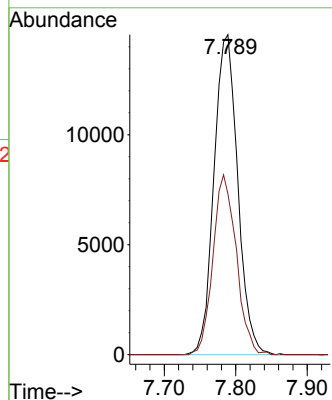
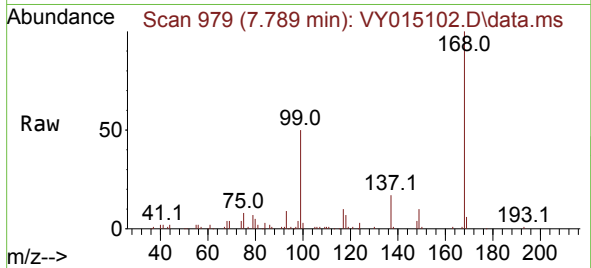




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY015102.D
Acq: 15 Aug 2023 14:44

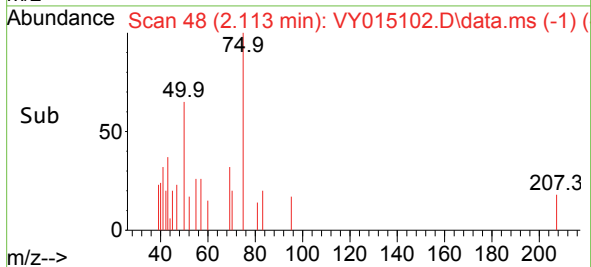
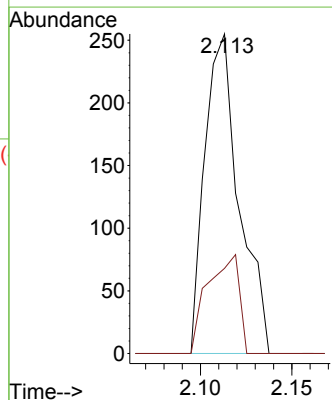
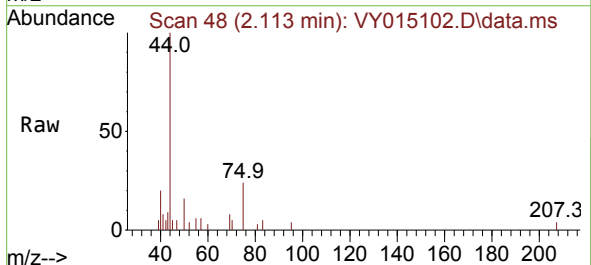
Instrument :
MSVOA_Y
ClientSampleId :

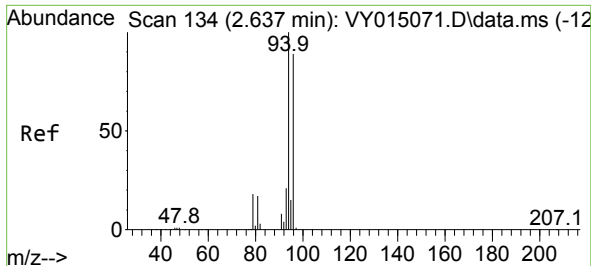
Tgt Ion:168 Resp: 33549
Ion Ratio Lower Upper
168 100
99 50.3 43.4 65.0



#3
Chloromethane
Concen: Below Cal
RT: 2.113 min Scan# 48
Delta R.T. 0.006 min
Lab File: VY015102.D
Acq: 15 Aug 2023 14:44

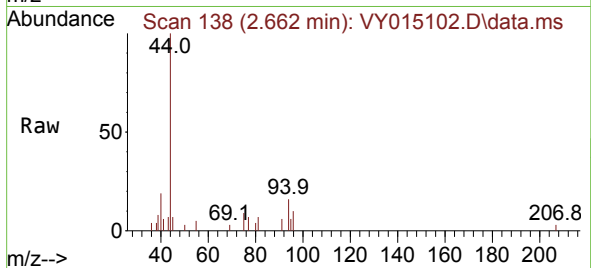
Tgt Ion: 50 Resp: 333
Ion Ratio Lower Upper
50 100
52 26.7 25.4 38.2



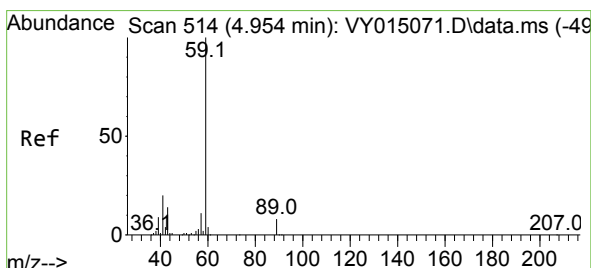
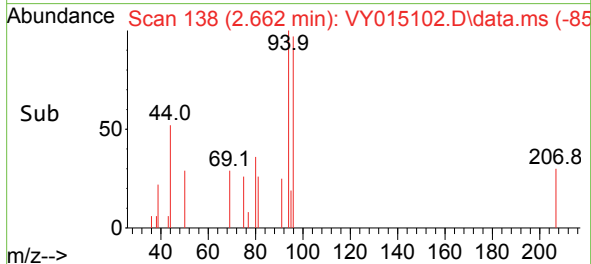
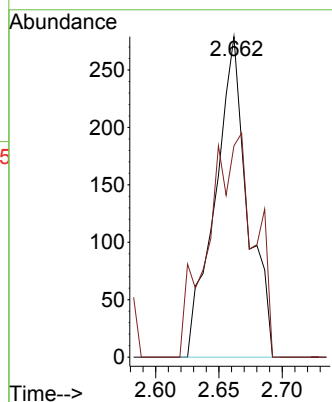


#5
Bromomethane
Concen: 1.376 ug/l
RT: 2.662 min Scan# 11
Delta R.T. 0.025 min
Lab File: VY015102.D
Acq: 15 Aug 2023 14:44

Instrument :
MSVOA_Y
ClientSampleId :

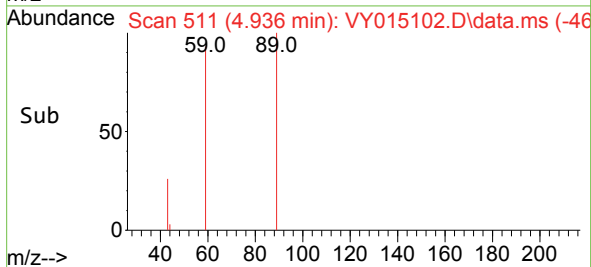
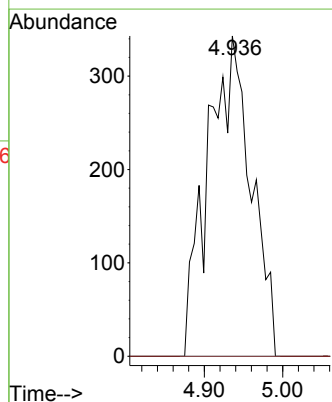
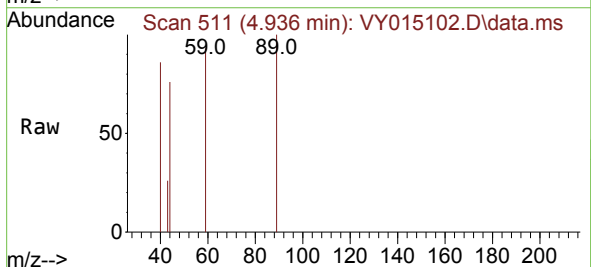


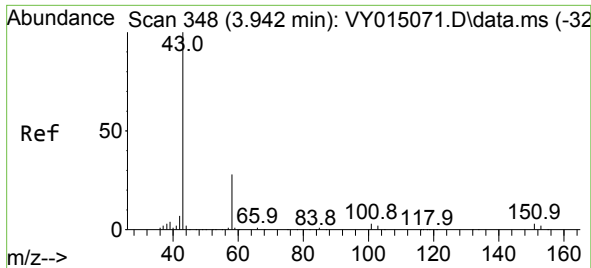
Tgt Ion: 94 Resp: 499
Ion Ratio Lower Upper
94 100
96 65.9 75.8 113.6#



#11
Tert butyl alcohol
Concen: 3.980 ug/l
RT: 4.936 min Scan# 511
Delta R.T. -0.012 min
Lab File: VY015102.D
Acq: 15 Aug 2023 14:44

Tgt Ion: 59 Resp: 1321
Ion Ratio Lower Upper
59 100
57 0.0 3.0 4.4#





#16

Acetone

Concen: 26.869 ug/l

RT: 3.948 min Scan# 34

Delta R.T. 0.006 min

Lab File: VY015102.D

Acq: 15 Aug 2023 14:44

Instrument :

MSVOA_Y

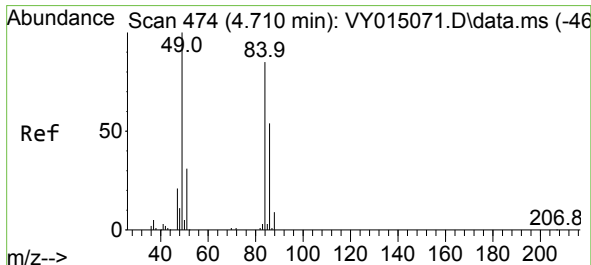
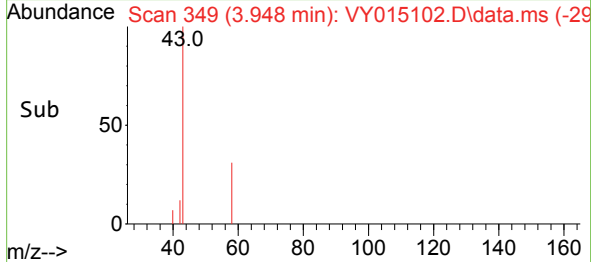
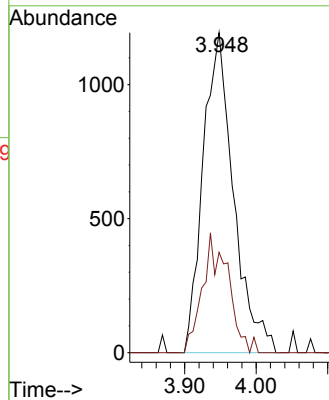
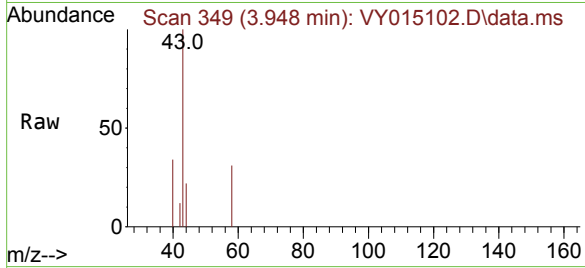
ClientSampleId :

Tgt Ion: 43 Resp: 3535

Ion Ratio Lower Upper

43 100

58 31.3 22.7 34.1



#20

Methylene Chloride

Concen: 3.866 ug/l

RT: 4.698 min Scan# 472

Delta R.T. -0.012 min

Lab File: VY015102.D

Acq: 15 Aug 2023 14:44

Tgt Ion: 84 Resp: 2477

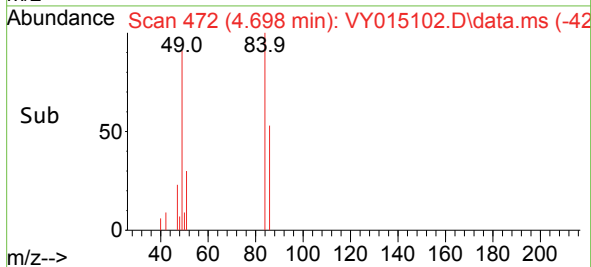
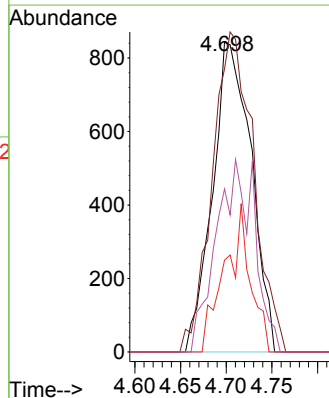
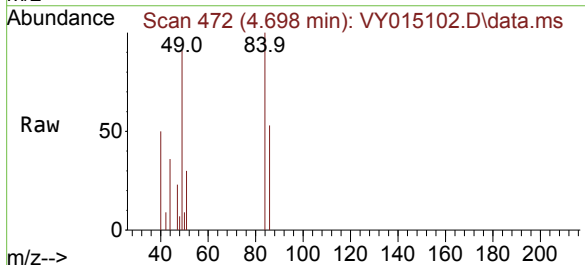
Ion Ratio Lower Upper

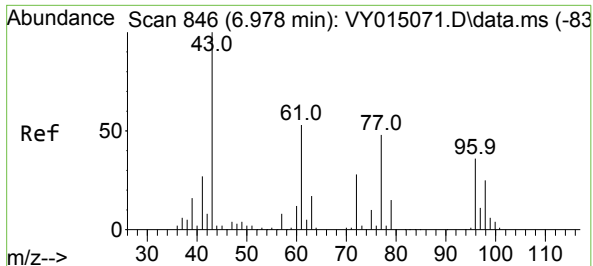
84 100

49 91.3 106.9 160.3#

51 29.7 33.2 49.8#

86 52.7 51.0 76.6





#25

2-Butanone

Concen: 7.108 ug/l

RT: 6.978 min Scan# 846

Delta R.T. 0.000 min

Lab File: VY015102.D

Acq: 15 Aug 2023 14:44

Instrument :

MSVOA_Y

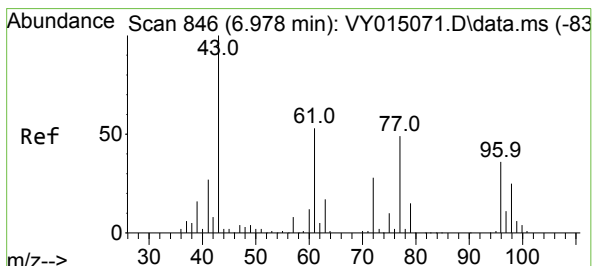
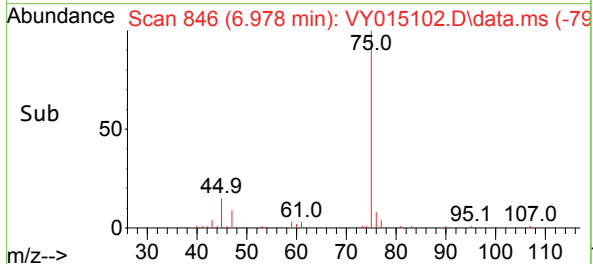
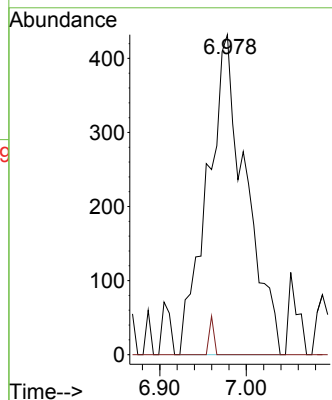
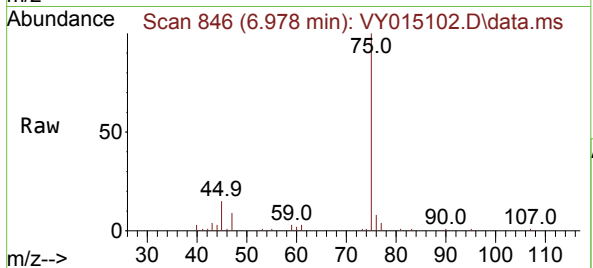
ClientSampleId :

Tgt Ion: 43 Resp: 1324

Ion Ratio Lower Upper

43 100

72 0.0 20.5 30.7#



#26

2,2-Dichloropropane

Concen: 2.686 ug/l

RT: 6.984 min Scan# 847

Delta R.T. 0.012 min

Lab File: VY015102.D

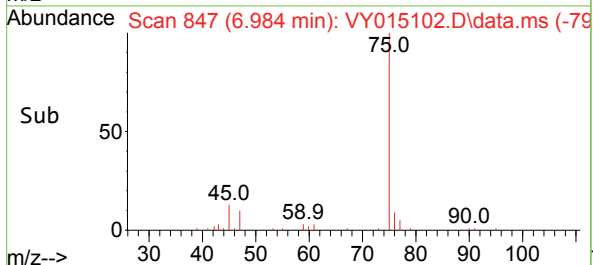
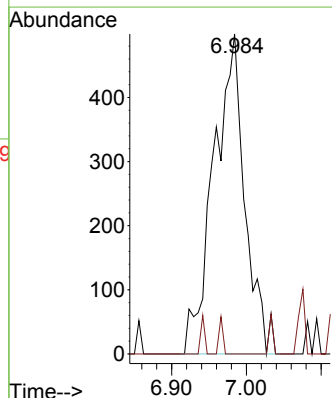
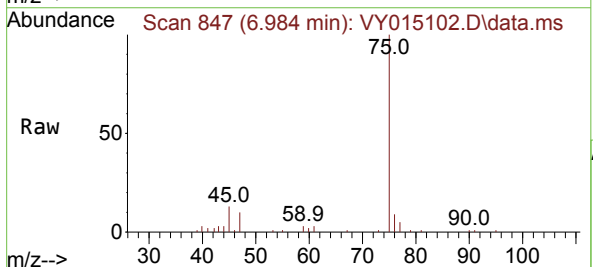
Acq: 15 Aug 2023 14:44

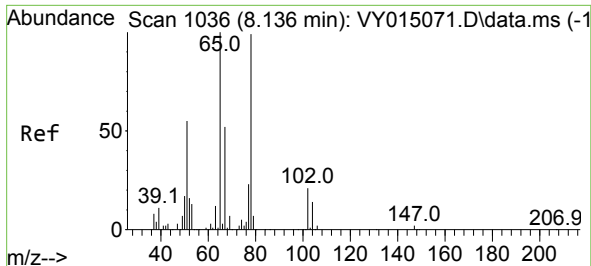
Tgt Ion: 77 Resp: 1448

Ion Ratio Lower Upper

77 100

97 1.5 10.9 32.9#





#33

1,2-Dichloroethane-d4

Concen: 40.512 ug/l

RT: 8.136 min Scan# 1036

Delta R.T. 0.000 min

Lab File: VY015102.D

Acq: 15 Aug 2023 14:44

Instrument :

MSVOA_Y

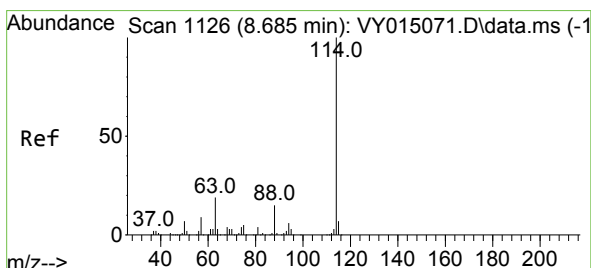
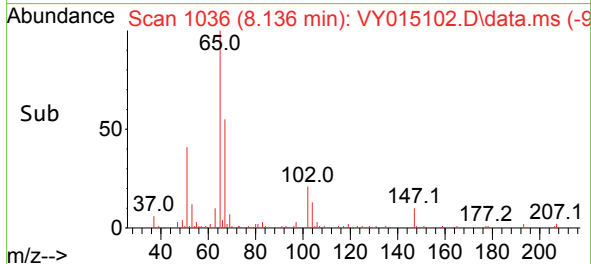
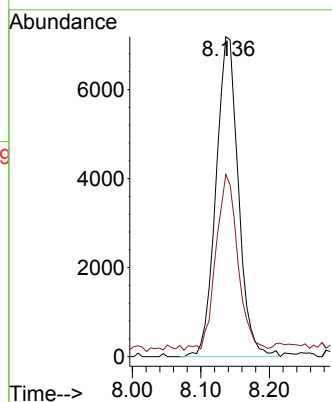
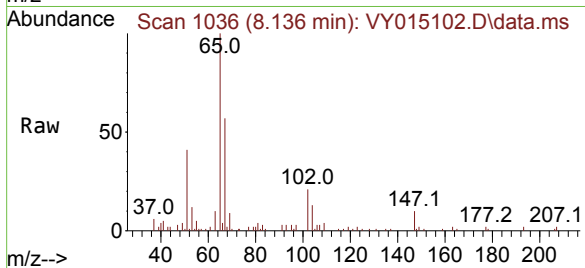
ClientSampleId :

Tgt Ion: 65 Resp: 16315

Ion Ratio Lower Upper

65 100

67 54.1 0.0 101.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.685 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VY015102.D

Acq: 15 Aug 2023 14:44

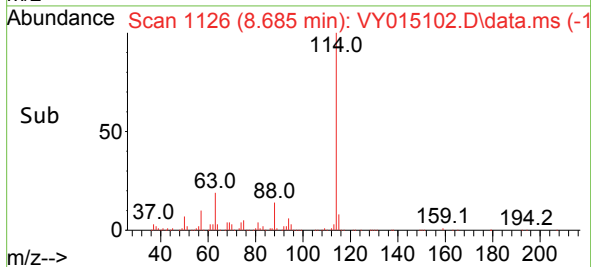
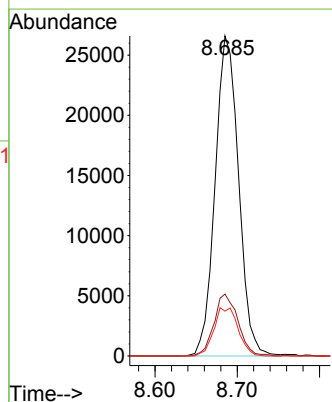
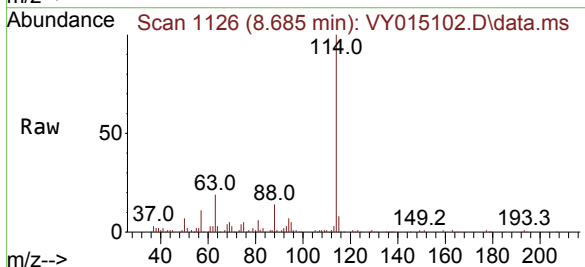
Tgt Ion: 114 Resp: 52735

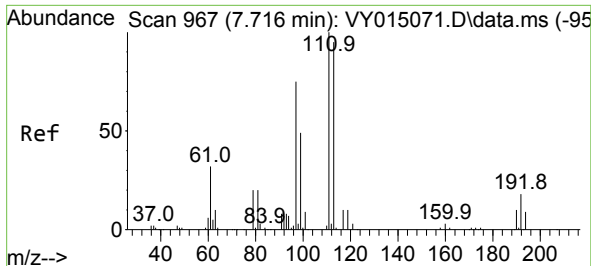
Ion Ratio Lower Upper

114 100

63 19.4 0.0 42.4

88 14.0 0.0 30.6

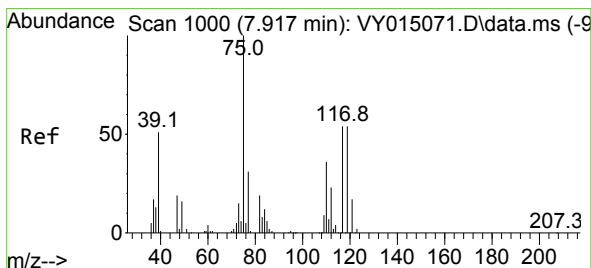
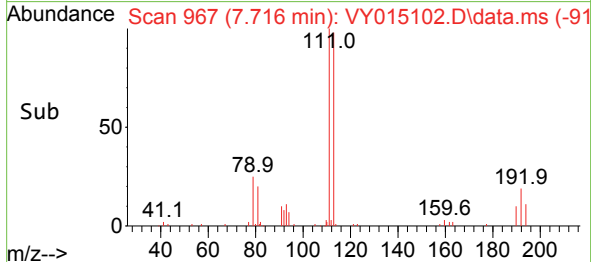
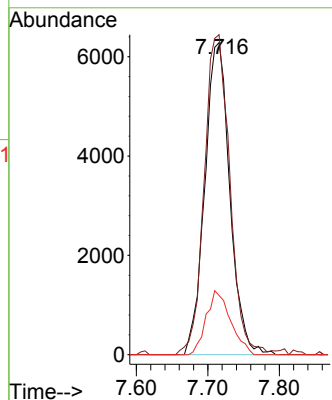
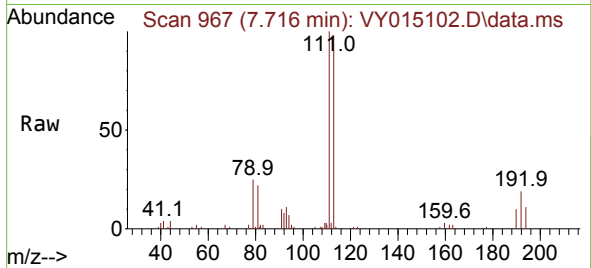




#35
 Dibromofluoromethane
 Concen: 45.113 ug/l
 RT: 7.716 min Scan# 911
 Delta R.T. 0.000 min
 Lab File: VY015102.D
 Acq: 15 Aug 2023 14:44

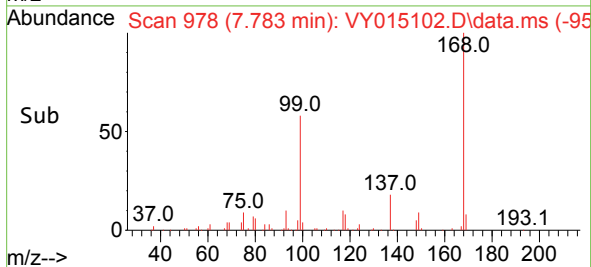
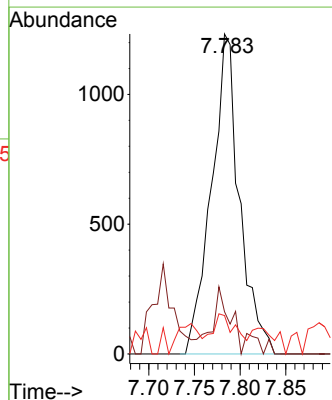
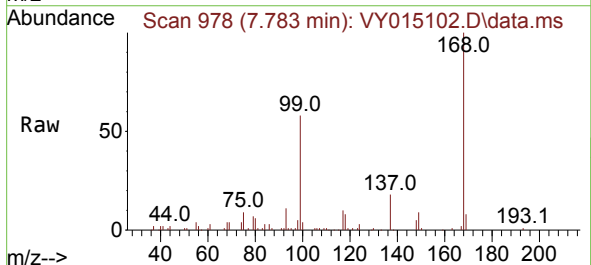
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 MSVOA_Y
 ClientSampleId :

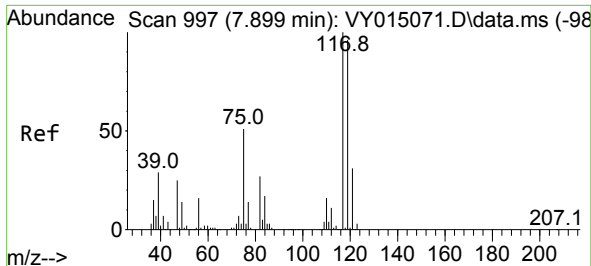
Tgt Ion	Ratio	Lower	Upper
113	100		
111	104.7	81.3	121.9
192	20.0	16.9	25.3



#36
 1,1-Dichloropropene
 Concen: 7.002 ug/l
 RT: 7.783 min Scan# 978
 Delta R.T. -0.128 min
 Lab File: VY015102.D
 Acq: 15 Aug 2023 14:44

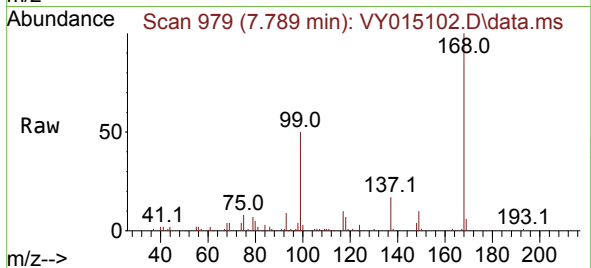
Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.3	17.8	53.5#
77	5.6	24.4	36.6#



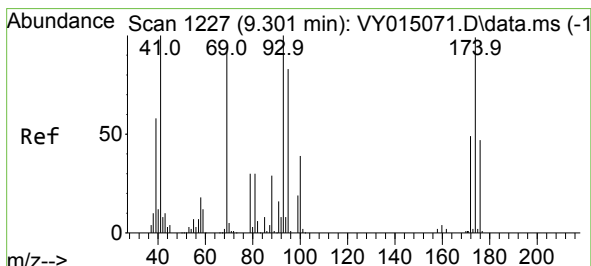
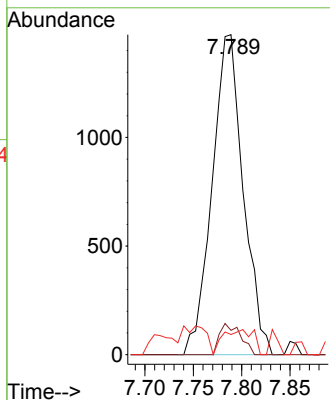
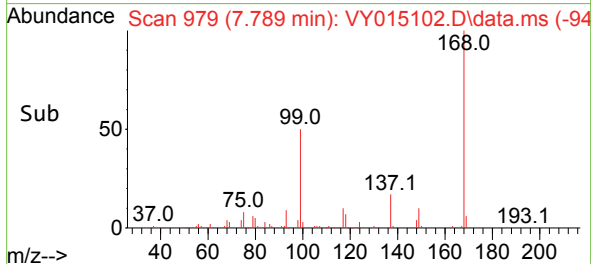


#38
Carbon Tetrachloride
Concen: 7.422 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.110 min
Lab File: VY015102.D
Acq: 15 Aug 2023 14:44

Instrument :
MSVOA_Y
ClientSampleId :

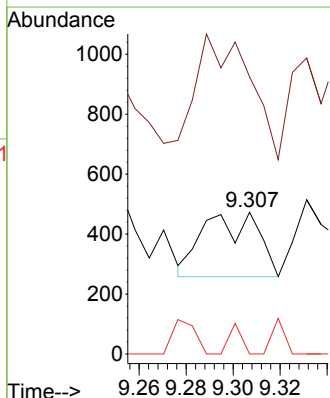
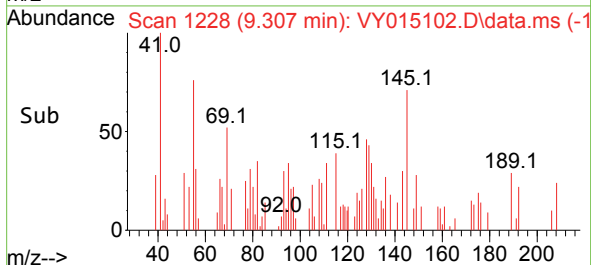
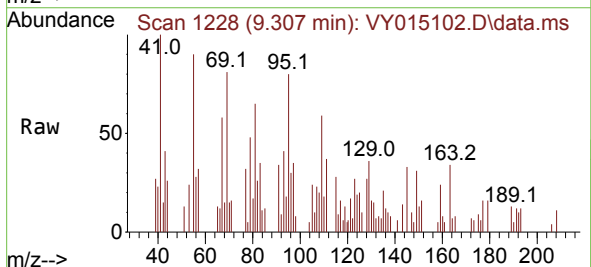


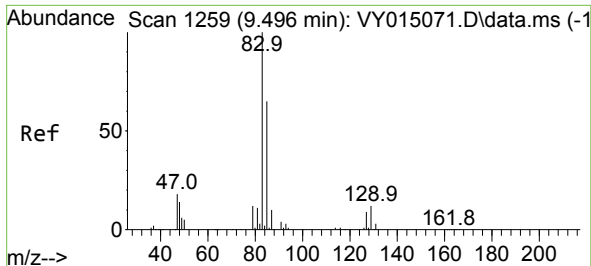
Tgt Ion:117 Resp: 3297
Ion Ratio Lower Upper
117 100
119 7.6 76.4 114.6#
121 2.6 25.8 38.6#



#46
Dibromomethane
Concen: 1.695 ug/l
RT: 9.307 min Scan# 1228
Delta R.T. 0.006 min
Lab File: VY015102.D
Acq: 15 Aug 2023 14:44

Tgt Ion: 93 Resp: 342
Ion Ratio Lower Upper
93 100
95 196.2 66.6 100.0#
174 10.8 84.8 127.2#

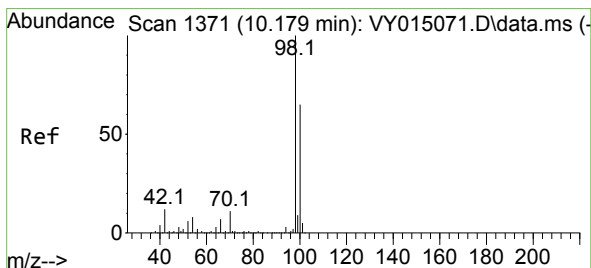
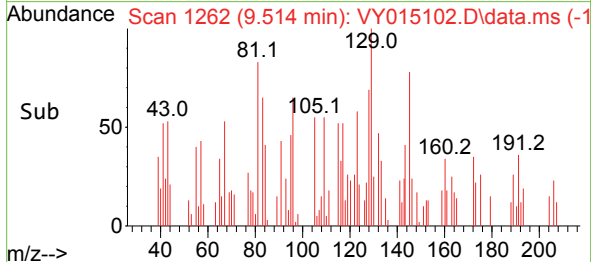
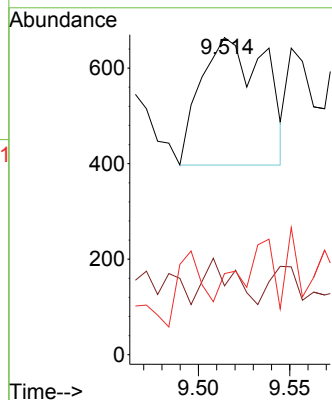
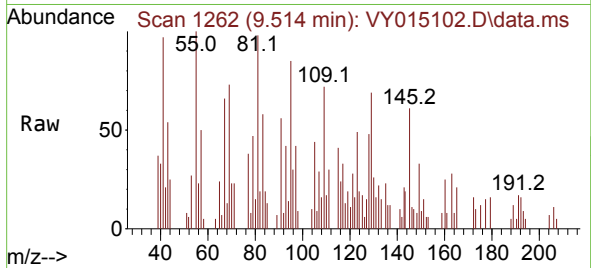




#47
Bromodichloromethane
Concen: 1.348 ug/l
RT: 9.514 min Scan# 1262
Delta R.T. 0.018 min
Lab File: VY015102.D
Acq: 15 Aug 2023 14:44

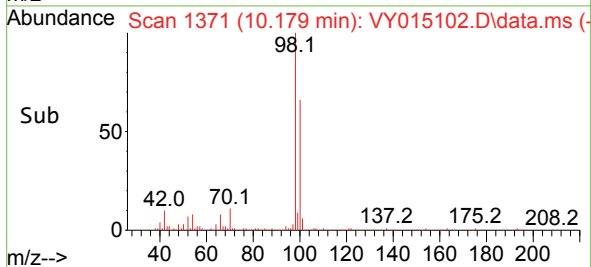
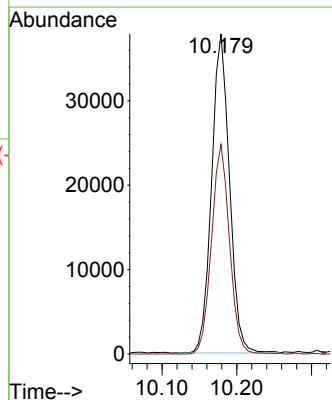
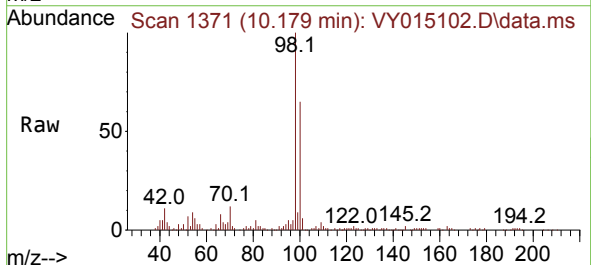
Instrument :
MSVOA_Y
ClientSampleId :

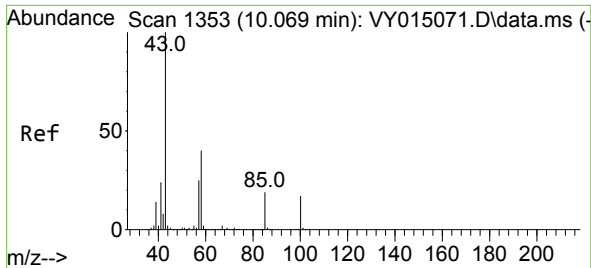
Tgt Ion: 83 Resp: 649
Ion Ratio Lower Upper
83 100
85 0.0 50.1 75.1#
127 27.7 7.1 10.7#



#50
Toluene-d8
Concen: 49.972 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. 0.000 min
Lab File: VY015102.D
Acq: 15 Aug 2023 14:44

Tgt Ion: 98 Resp: 63111
Ion Ratio Lower Upper
98 100
100 65.9 50.1 75.1

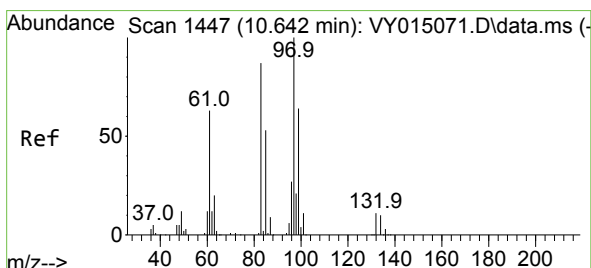
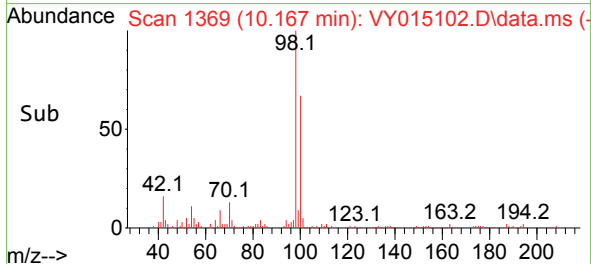
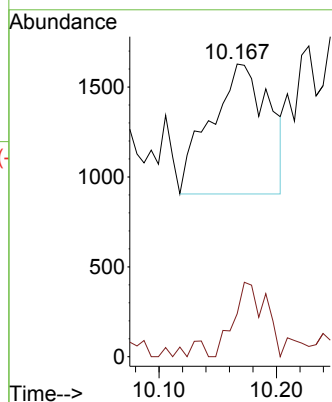
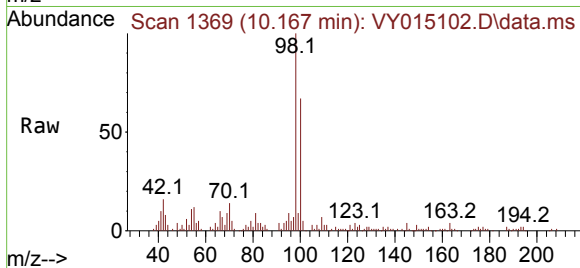




#51
4-Methyl-2-Pentanone
Concen: 6.708 ug/l
RT: 10.167 min Scan# 1369
Delta R.T. 0.098 min
Lab File: VY015102.D
Acq: 15 Aug 2023 14:44

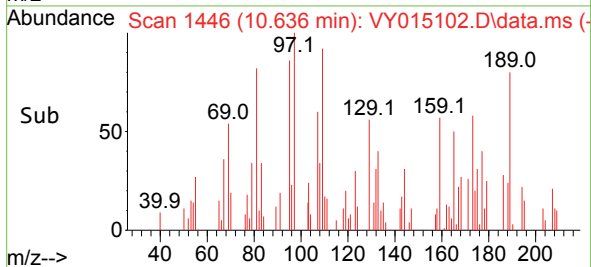
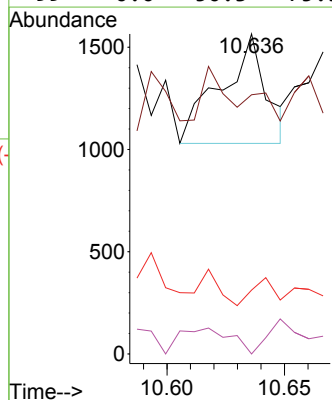
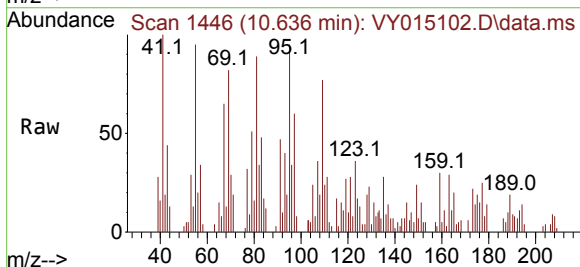
Instrument :
MSVOA_Y
ClientSampleId :

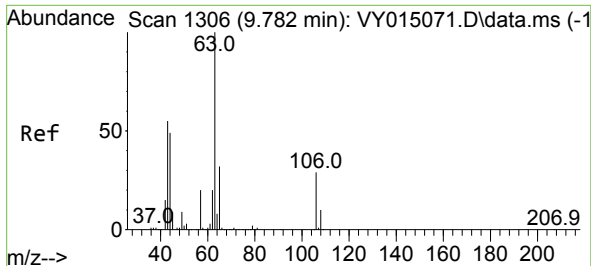
Tgt Ion: 43 Resp: 2477
Ion Ratio Lower Upper
43 100
58 31.1 29.0 43.6



#55
1,1,2-Trichloroethane
Concen: 2.330 ug/l
RT: 10.636 min Scan# 1446
Delta R.T. -0.006 min
Lab File: VY015102.D
Acq: 15 Aug 2023 14:44

Tgt Ion: 97 Resp: 715
Ion Ratio Lower Upper
97 100
83 24.1 72.0 108.0#
85 9.0 45.4 68.0#
99 0.0 50.3 75.5#

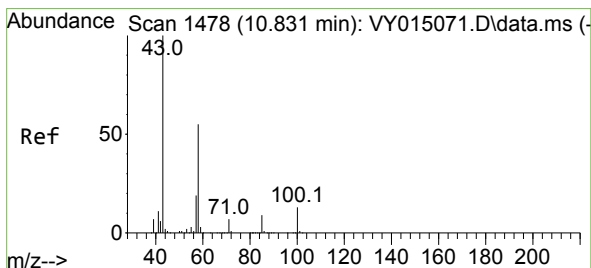
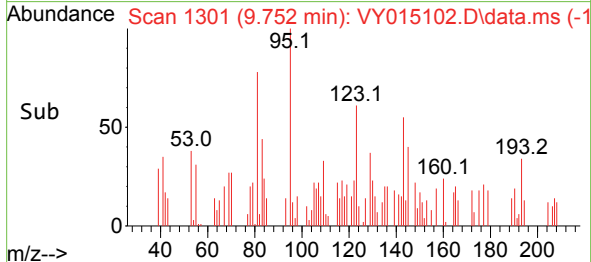
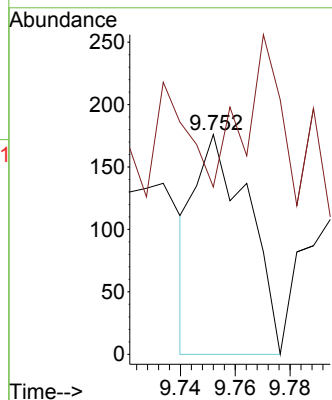
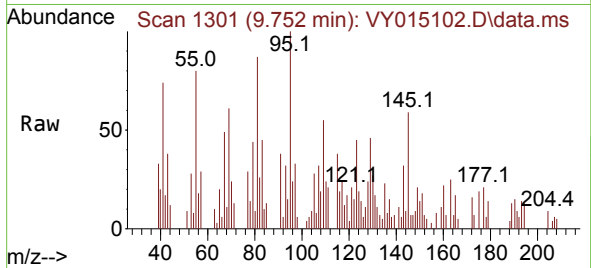




#58
2-Chloroethyl Vinyl ether
Concen: 1.144 ug/l
RT: 9.752 min Scan# 11
Delta R.T. -0.024 min
Lab File: VY015102.D
Acq: 15 Aug 2023 14:44

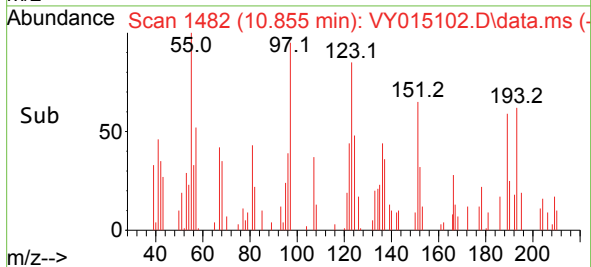
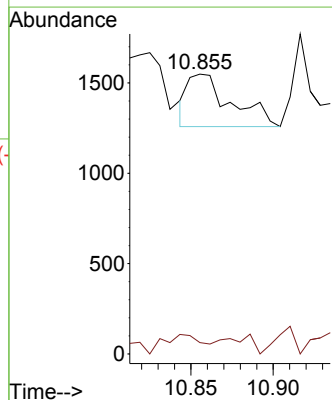
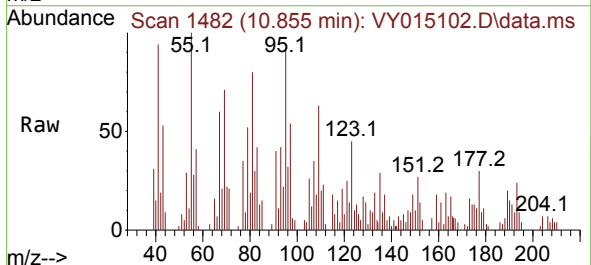
Instrument :
MSVOA_Y
ClientSampleId :

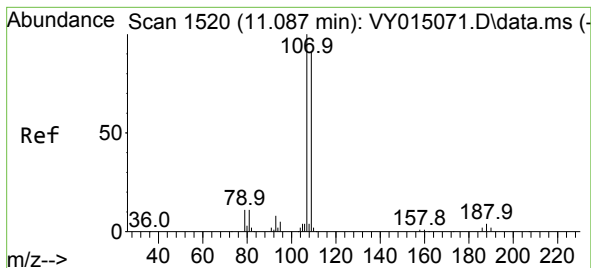
Tgt Ion: 63 Resp: 239
Ion Ratio Lower Upper
63 100
106 66.5 21.2 31.8#



#59
2-Hexanone
Concen: 1.954 ug/l
RT: 10.855 min Scan# 1482
Delta R.T. 0.024 min
Lab File: VY015102.D
Acq: 15 Aug 2023 14:44

Tgt Ion: 43 Resp: 534
Ion Ratio Lower Upper
43 100
58 32.6 25.1 75.3





#61

1,2-Dibromoethane

Concen: 1.561 ug/l

RT: 11.099 min Scan# 1522

Delta R.T. 0.012 min

Lab File: VY015102.D

Acq: 15 Aug 2023 14:44

Instrument :

MSVOA_Y

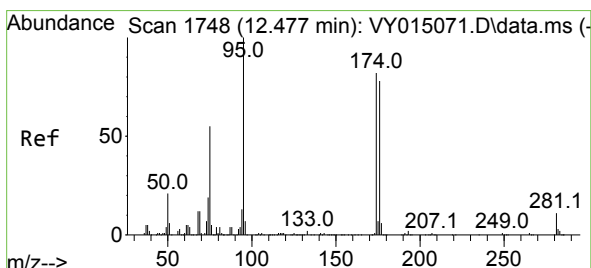
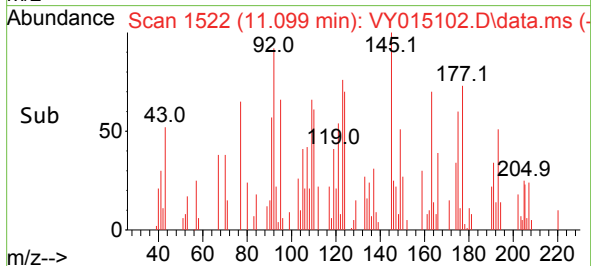
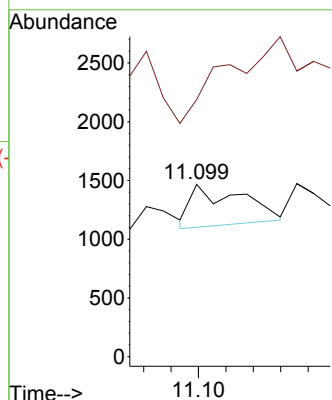
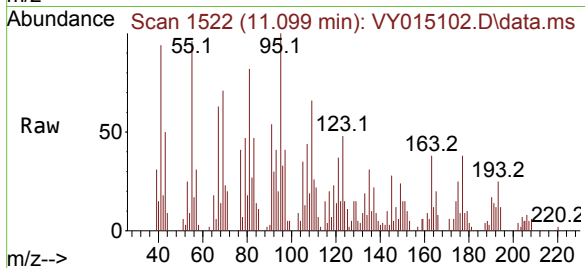
ClientSampleId :

Tgt Ion:107 Resp: 455

Ion Ratio Lower Upper

107 100

109 0.0 75.6 113.4#



#62

4-Bromofluorobenzene

Concen: 75.980 ug/l

RT: 12.477 min Scan# 1748

Delta R.T. 0.000 min

Lab File: VY015102.D

Acq: 15 Aug 2023 14:44

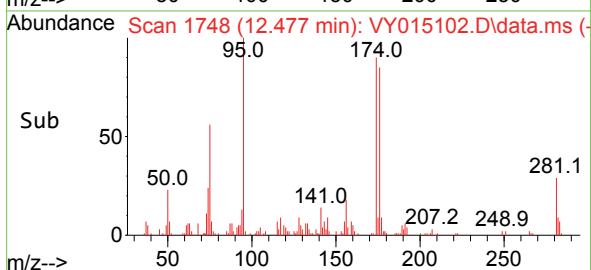
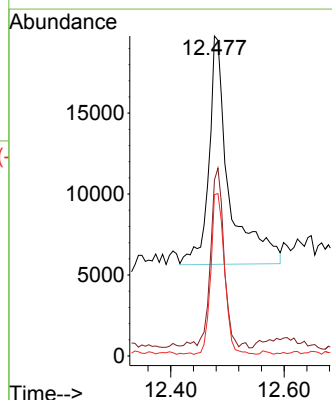
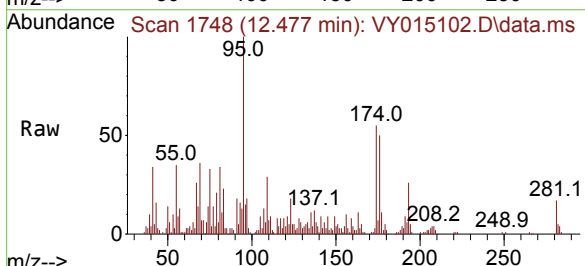
Tgt Ion: 95 Resp: 35048

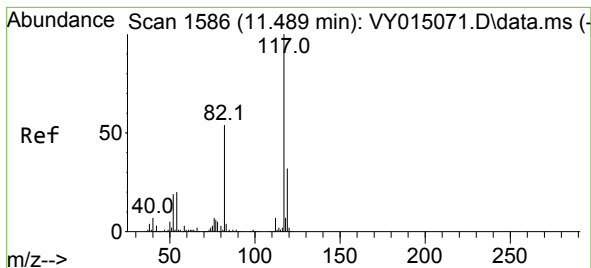
Ion Ratio Lower Upper

95 100

174 53.5 0.0 178.2

176 47.8 0.0 173.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.489 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY015102.D

Acq: 15 Aug 2023 14:44

Instrument :

MSVOA_Y

ClientSampleId :

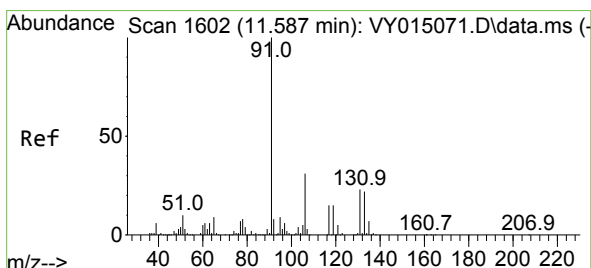
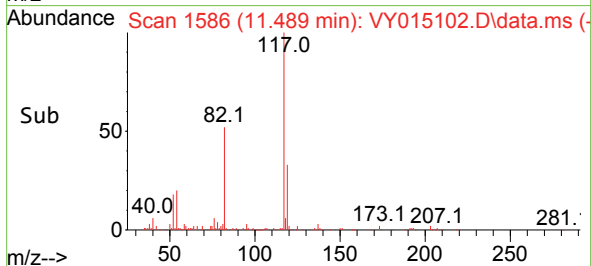
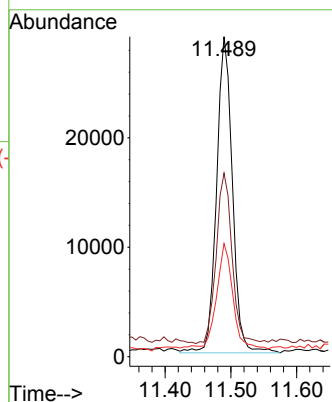
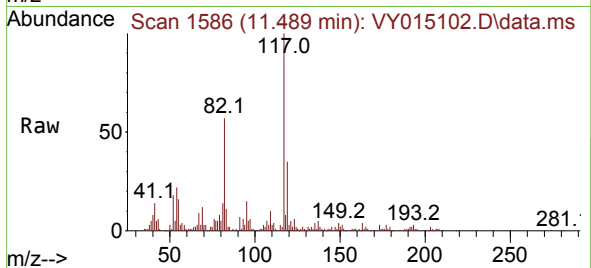
Tgt Ion:117 Resp: 48445

Ion Ratio Lower Upper

117 100

82 53.0 43.4 65.0

119 33.0 26.3 39.5



#66

1,1,1,2-Tetrachloroethane

Concen: 1.485 ug/l

RT: 11.581 min Scan# 1601

Delta R.T. -0.006 min

Lab File: VY015102.D

Acq: 15 Aug 2023 14:44

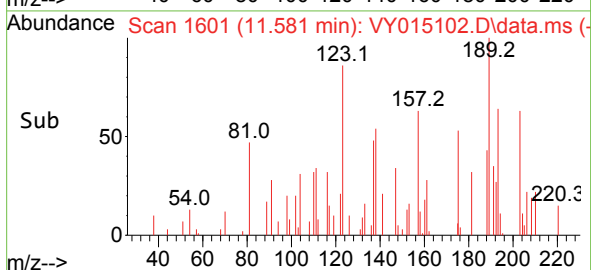
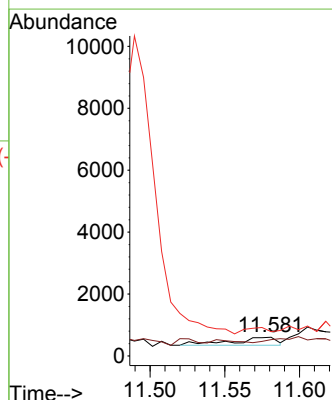
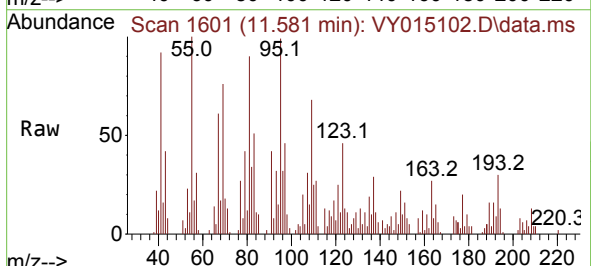
Tgt Ion:131 Resp: 532

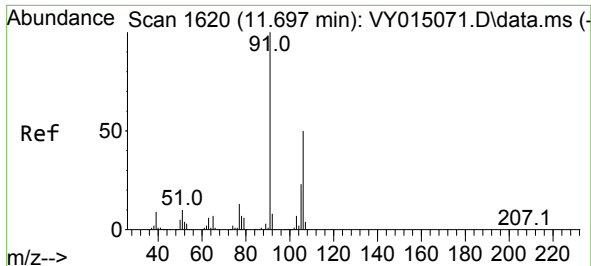
Ion Ratio Lower Upper

131 100

133 0.0 47.5 142.6#

119 0.0 31.6 94.7#

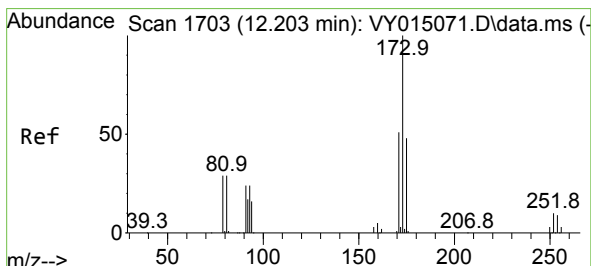
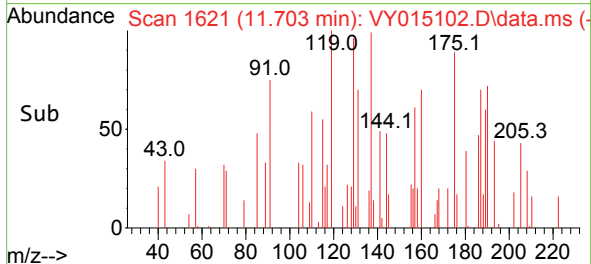
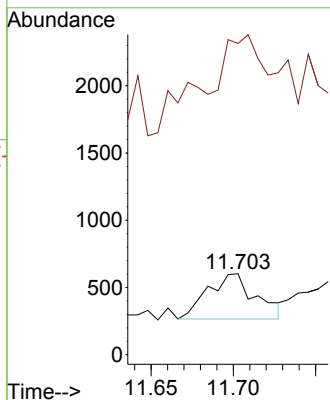
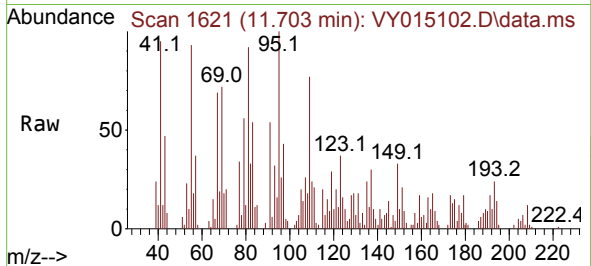




#68
m/p-Xylenes
Concen: 1.163 ug/l
RT: 11.703 min Scan# 1621
Delta R.T. 0.006 min
Lab File: VY015102.D
Acq: 15 Aug 2023 14:44

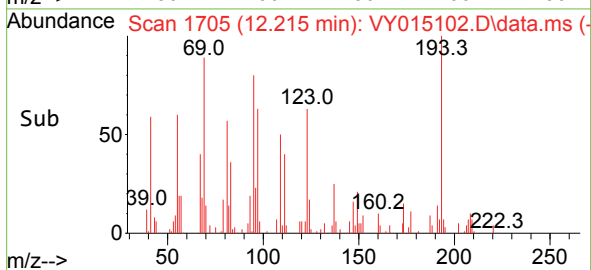
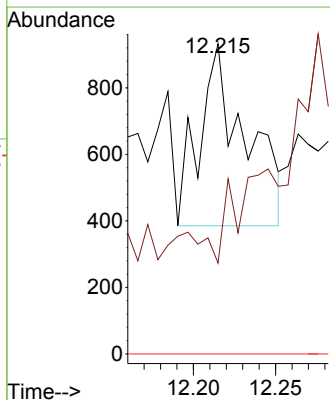
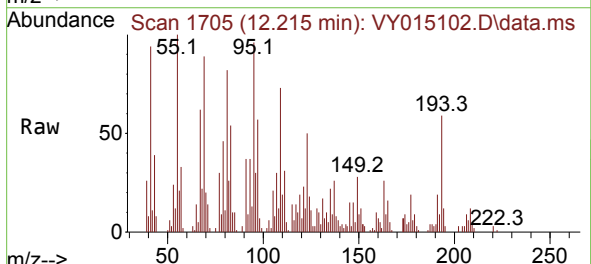
Instrument :
MSVOA_Y
ClientSampleId :

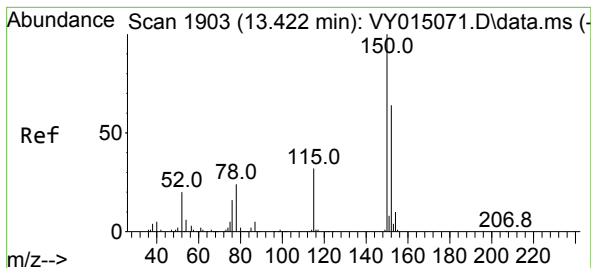
Tgt Ion:106 Resp: 683
Ion Ratio Lower Upper
106 100
91 327.5 166.1 249.1#



#71
Bromoform
Concen: 4.125 ug/l
RT: 12.215 min Scan# 1705
Delta R.T. 0.006 min
Lab File: VY015102.D
Acq: 15 Aug 2023 14:44

Tgt Ion:173 Resp: 1071
Ion Ratio Lower Upper
173 100
175 8.4 24.6 73.8#
254 0.0 0.2 0.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.428 min Scan# 1903

Delta R.T. 0.006 min

Lab File: VY015102.D

Acq: 15 Aug 2023 14:44

Instrument :

MSVOA_Y

ClientSampleId :

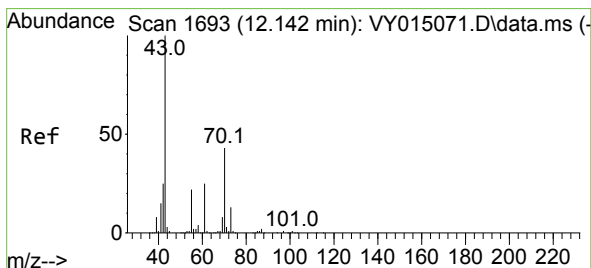
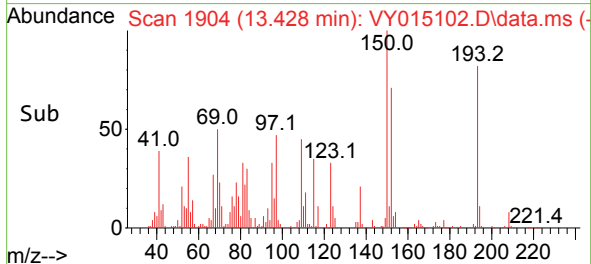
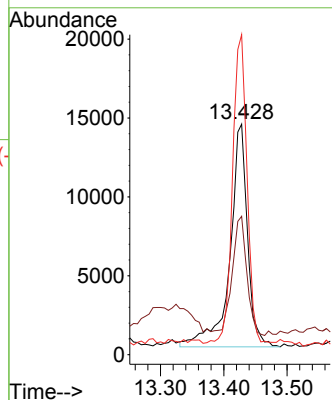
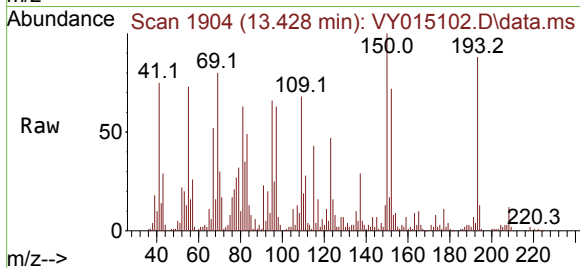
Tgt Ion:152 Resp: 27462

Ion Ratio Lower Upper

152 100

115 44.4 28.8 86.5

150 113.6 0.0 348.8



#74

N-ethyl acetate

Concen: 16.378 ug/l

RT: 12.099 min Scan# 1686

Delta R.T. -0.043 min

Lab File: VY015102.D

Acq: 15 Aug 2023 14:44

Tgt Ion: 43 Resp: 10442

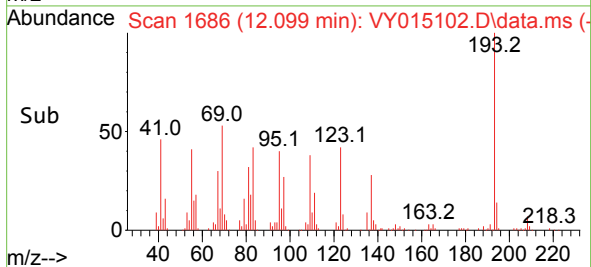
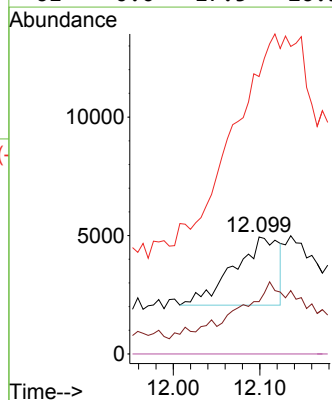
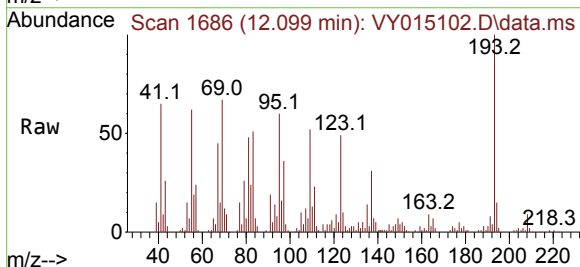
Ion Ratio Lower Upper

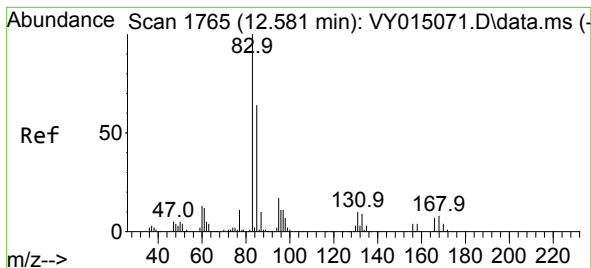
43 100

70 83.5 29.7 44.5#

55 264.3 18.3 27.5#

61 0.0 17.5 26.3#





#75

1,1,2,2-Tetrachloroethane

Concen: 3.133 ug/l

RT: 12.605 min Scan# 1769

Delta R.T. 0.024 min

Lab File: VY015102.D

Acq: 15 Aug 2023 14:44

Instrument :

MSVOA_Y

ClientSampleId :

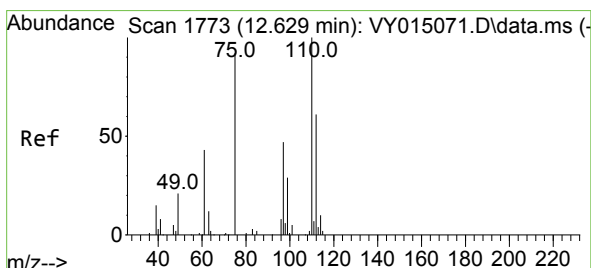
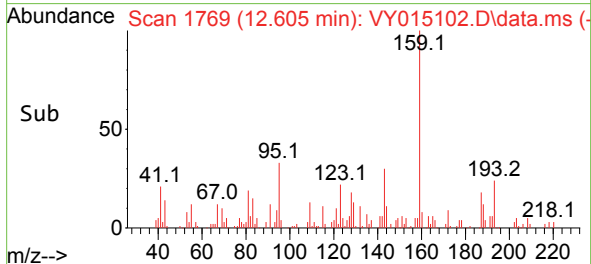
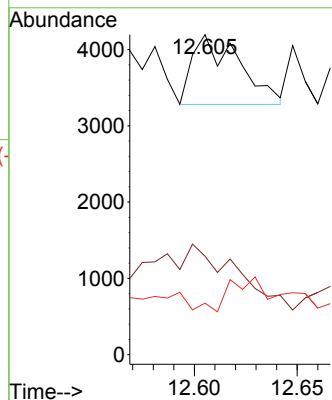
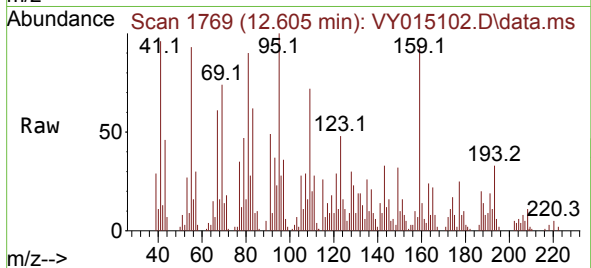
Tgt Ion: 83 Resp: 1441

Ion Ratio Lower Upper

83 100

131 162.0 5.4 16.2#

85 33.2 31.8 95.4



#76

1,2,3-Trichloropropane

Concen: 1.415 ug/l

RT: 12.617 min Scan# 1771

Delta R.T. -0.012 min

Lab File: VY015102.D

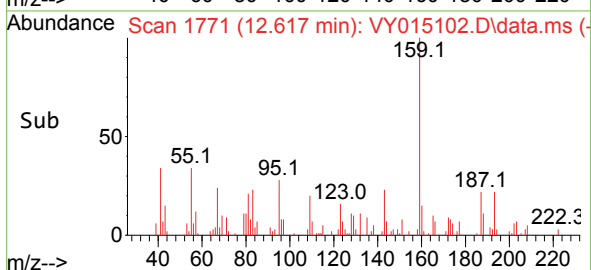
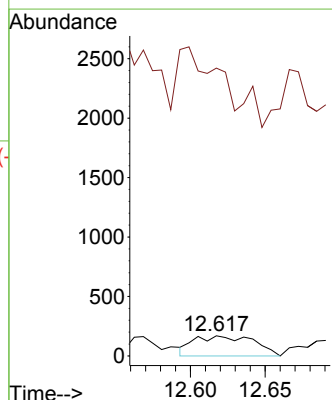
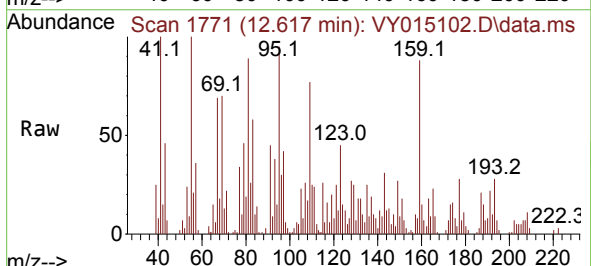
Acq: 15 Aug 2023 14:44

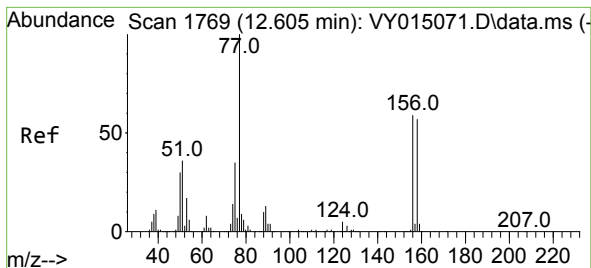
Tgt Ion: 75 Resp: 472

Ion Ratio Lower Upper

75 100

77 303.4 0.0 0.0#





#77

Bromobenzene

Concen: 27.179 ug/l

RT: 12.386 min Scan# 1733

Delta R.T. -0.219 min

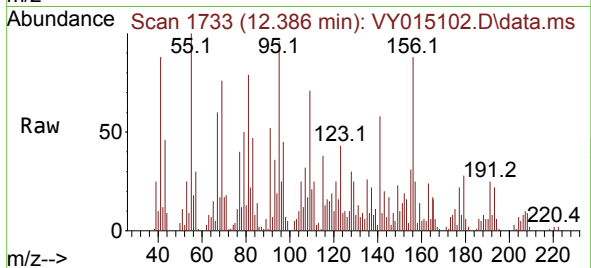
Lab File: VY015102.D

Acq: 15 Aug 2023 14:44

Instrument :

MSVOA_Y

ClientSampleId :



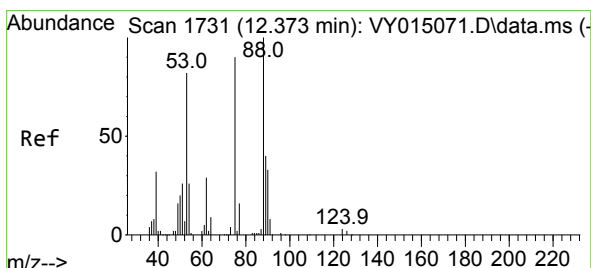
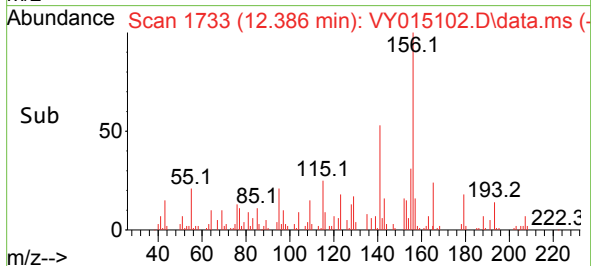
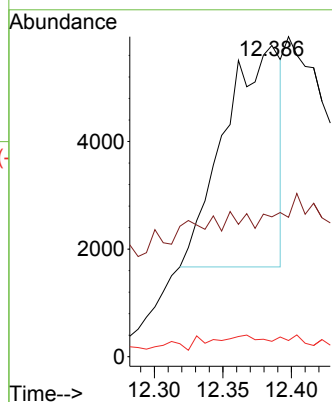
Tgt Ion:156 Resp: 11699

Ion Ratio Lower Upper

156 100

77 0.0 92.8 278.6#

158 6.5 48.4 145.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 3.555 ug/l

RT: 12.398 min Scan# 1735

Delta R.T. 0.024 min

Lab File: VY015102.D

Acq: 15 Aug 2023 14:44

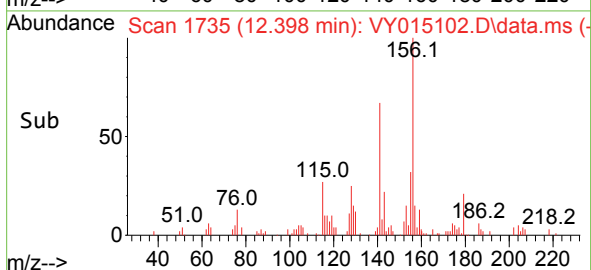
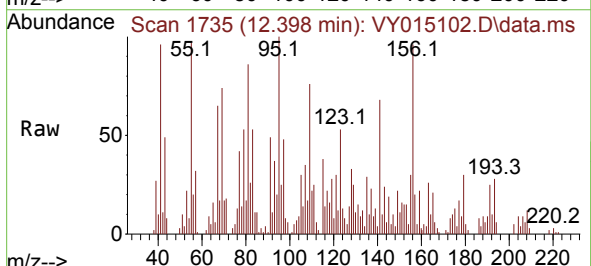
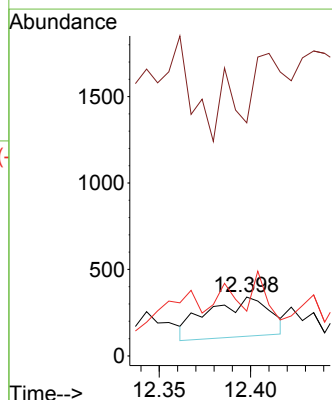
Tgt Ion: 75 Resp: 540

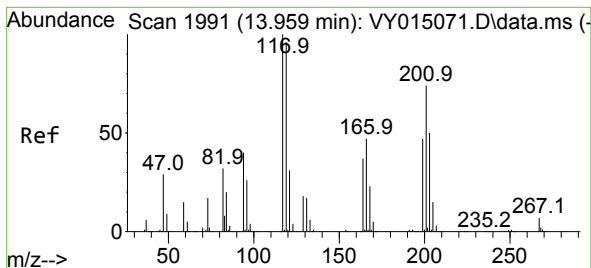
Ion Ratio Lower Upper

75 100

53 89.6 77.8 116.8

89 0.0 37.4 56.0#





#90

Hexachloroethane

Concen: 1.670 ug/l

RT: 13.946 min Scan# 1991

Delta R.T. -0.012 min

Lab File: VY015102.D

Acq: 15 Aug 2023 14:44

Instrument :

MSVOA_Y

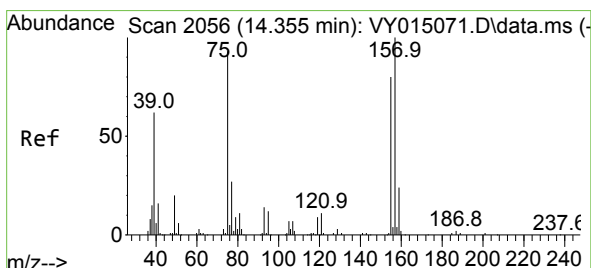
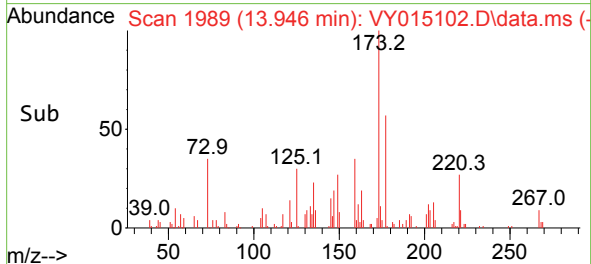
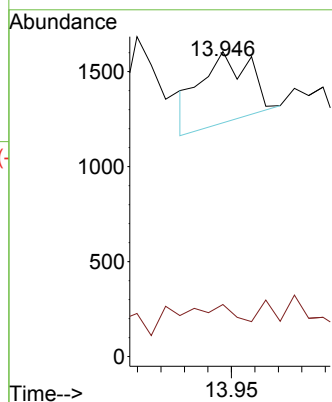
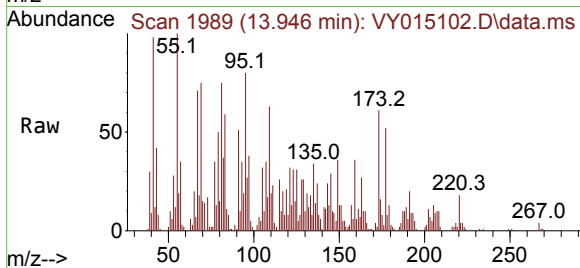
ClientSampleId :

Tgt Ion:117 Resp: 542

Ion Ratio Lower Upper

117 100

201 57.6 41.6 124.8



#92

1,2-Dibromo-3-Chloropropane

Concen: 2.626 ug/l

RT: 14.385 min Scan# 2061

Delta R.T. 0.031 min

Lab File: VY015102.D

Acq: 15 Aug 2023 14:44

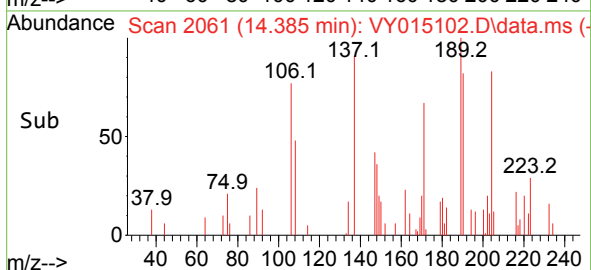
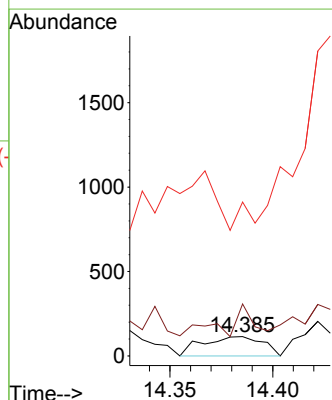
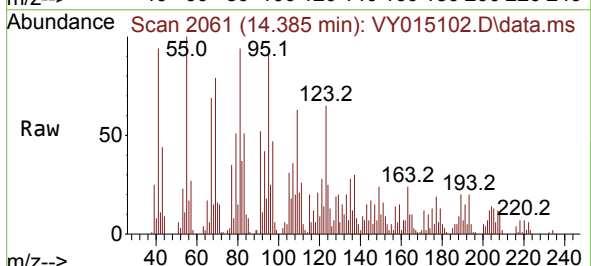
Tgt Ion: 75 Resp: 234

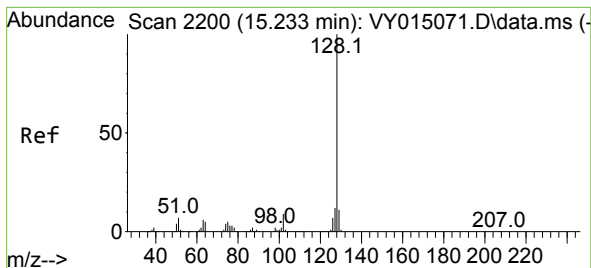
Ion Ratio Lower Upper

75 100

155 72.2 41.5 124.6

157 250.9 51.8 155.5#





#95

Naphthalene

Concen: 1.388 ug/l

RT: 15.239 min Scan# 21

Delta R.T. 0.006 min

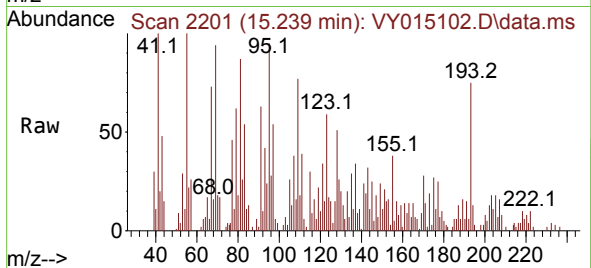
Lab File: VY015102.D

Acq: 15 Aug 2023 14:44

Instrument :

MSVOA_Y

ClientSampleId :



Tgt Ion:128 Resp: 1770

Ion Ratio Lower Upper

128 100

127 19.1 10.8 16.2#

129 0.0 8.6 13.0#

