

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY091523\
 Data File : VY015591.D
 Acq On : 16 Sep 2023 00:49
 Operator : SY/MD
 Sample : 04419-03
 Misc : 5.17g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Sep 16 05:27:08 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y082923S.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 31 20:01:47 2023
 Response via : Initial Calibration

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

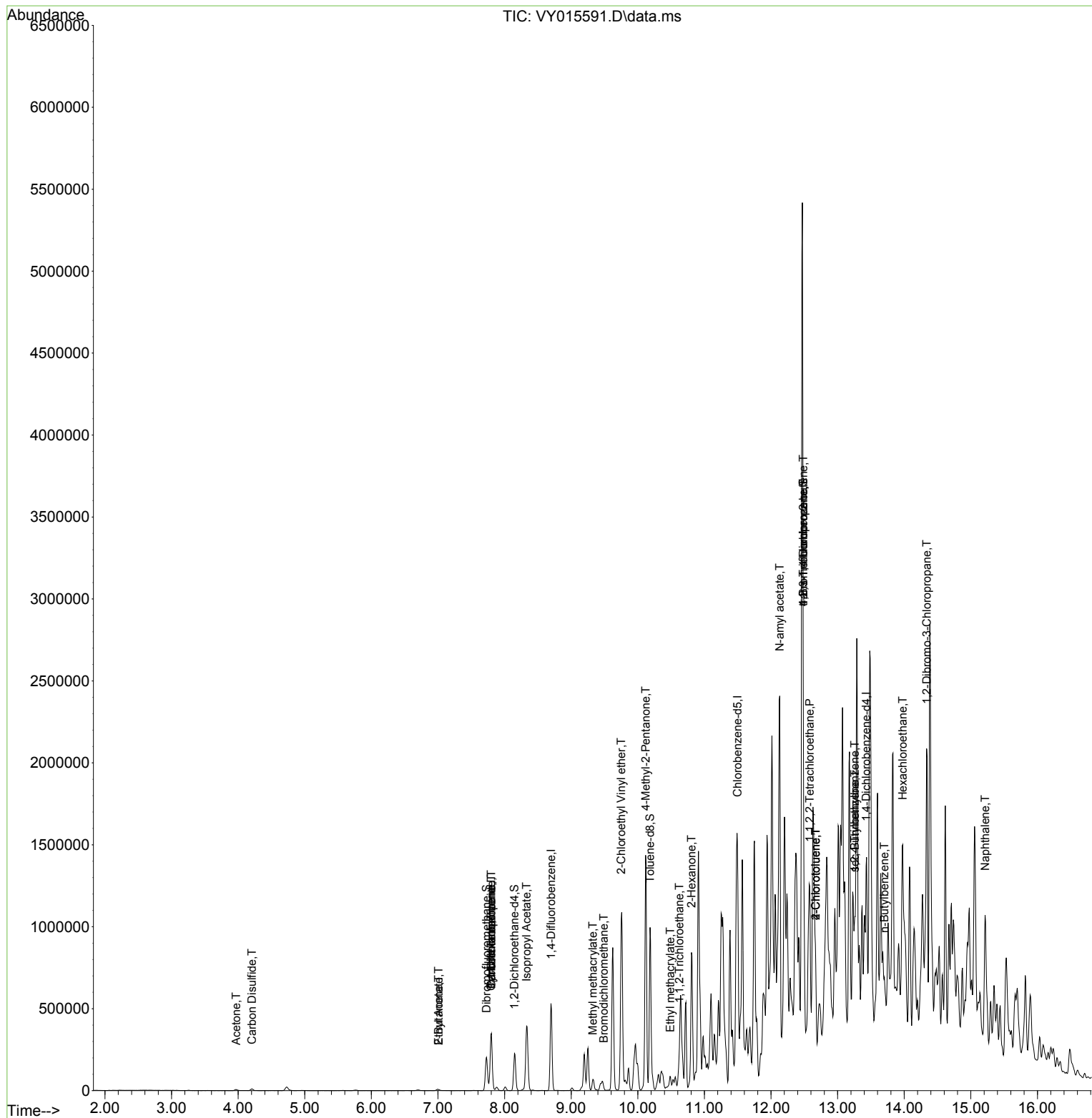
Internal Standards						
1) Pentafluorobenzene	7.801	168	267626	50.000	ug/l	0.02
34) 1,4-Difluorobenzene	8.697	114	456605	50.000	ug/l	0.01
63) Chlorobenzene-d5	11.496	117	434561	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	214734	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.149	65	176645	61.572	ug/l	0.01
Spiked Amount 50.000	Range 50 - 163		Recovery = 123.140%			
35) Dibromofluoromethane	7.728	113	145738	55.415	ug/l	0.01
Spiked Amount 50.000	Range 54 - 147		Recovery = 110.820%			
50) Toluene-d8	10.185	98	555121	58.286	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 116.580%			
62) 4-Bromofluorobenzene	12.483	95	229448	64.895	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 129.800%			
Target Compounds					Qvalue	
11) Tert butyl alcohol	4.948	59	155	Below Cal	#	89
16) Acetone	3.973	43	12403	10.358	ug/l	93
17) Carbon Disulfide	4.204	76	21291	2.677	ug/l	98
20) Methylene Chloride	4.722	84	16653	Below Cal		88
25) 2-Butanone	7.009	43	4575	2.694	ug/l #	87
31) Cyclohexane	7.795	56	7233	1.419	ug/l #	22
36) 1,1-Dichloropropene	7.801	75	20624	4.466	ug/l #	50
37) Ethyl Acetate	7.009	43	4575	1.285	ug/l #	81
38) Carbon Tetrachloride	7.801	117	26706	5.599	ug/l #	16
43) Isopropyl Acetate	8.332	43	81155	13.177	ug/l #	55
47) Bromodichloromethane	9.490	83	4957	1.074	ug/l #	26
48) Methyl methacrylate	9.325	41	17702	6.265	ug/l #	35
51) 4-Methyl-2-Pentanone	10.118	43	161147	45.018	ug/l #	86
55) 1,1,2-Trichloroethane	10.624	97	50167	17.258	ug/l #	36
56) Ethyl methacrylate	10.490	69	18627	4.324	ug/l #	70
58) 2-Chloroethyl Vinyl ether	9.752	63	1771	1.152	ug/l #	48
59) 2-Hexanone	10.807	43	329616	122.719	ug/l #	33
74) N-amyl acetate	12.130	43	562571	103.817	ug/l #	64
75) 1,1,2,2-Tetrachloroethane	12.581	83	13808	3.586	ug/l #	1
76) 1,2,3-Trichloropropane	12.483	75	109130	38.323	ug/l #	100
79) 2-Chlorotoluene	12.672	91	13407	1.225	ug/l	91
81) trans-1,4-Dichloro-2-b...	12.483	75	109130	84.538	ug/l #	50
82) 4-Chlorotoluene	12.672	91	13407	1.178	ug/l	91
84) 1,2,4-Trimethylbenzene	13.258	105	163546	12.209	ug/l #	32
85) sec-Butylbenzene	13.258	105	163546	9.279	ug/l #	50
89) n-Butylbenzene	13.703	91	132552	9.534	ug/l #	78
90) Hexachloroethane	13.977	117	25217	9.545	ug/l #	8
92) 1,2-Dibromo-3-Chloropr...	14.337	75	6115	8.028	ug/l #	19
95) Naphthalene	15.214	128	18381	1.717	ug/l #	1

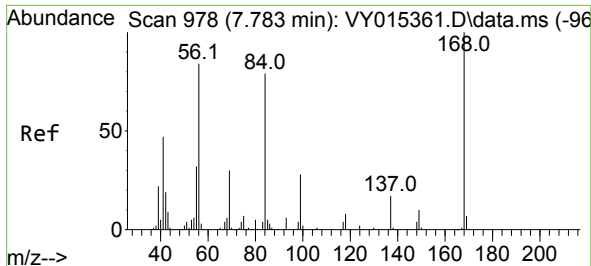
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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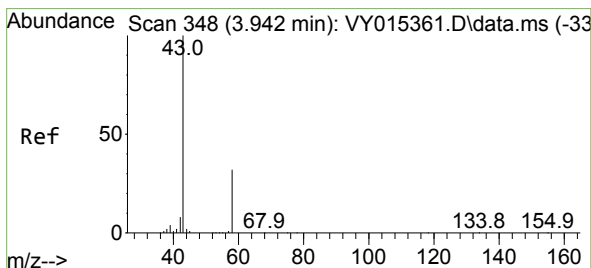
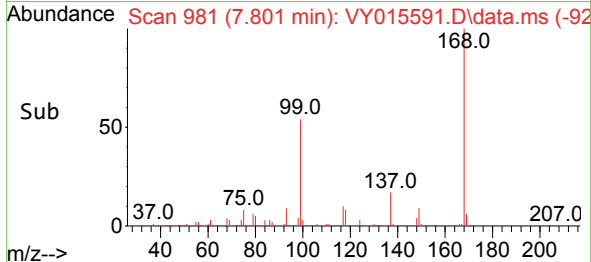
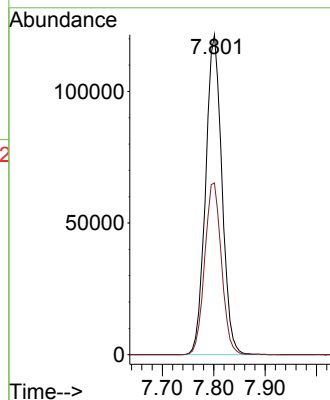
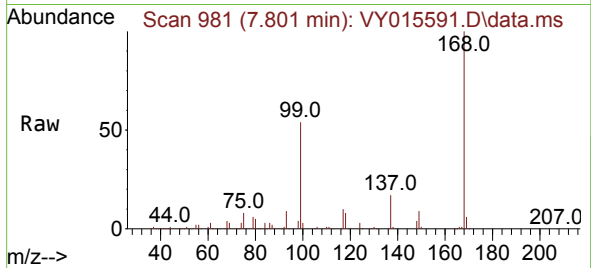




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.801 min Scan# 91
Delta R.T. 0.018 min
Lab File: VY015591.D
Acq: 16 Sep 2023 00:49

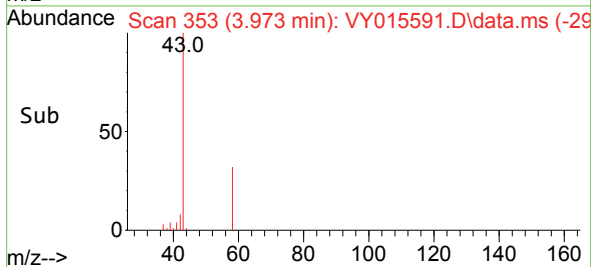
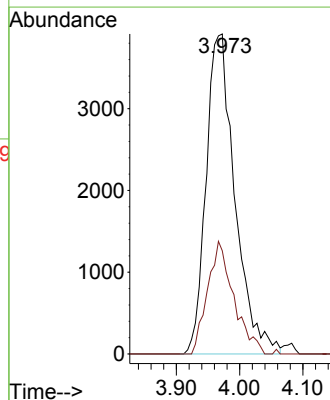
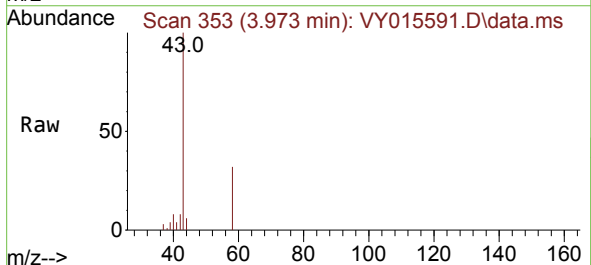
Instrument :
MSVOA_Y
ClientSampleId :

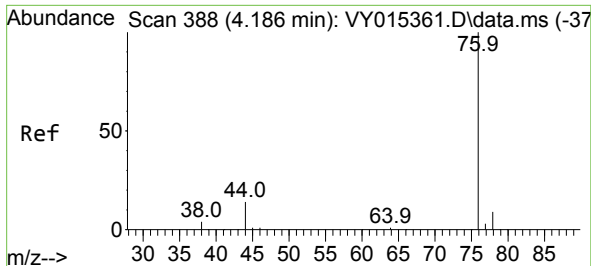
Tgt Ion:168 Resp: 267626
Ion Ratio Lower Upper
168 100
99 53.7 43.4 65.0



#16
Acetone
Concen: 10.358 ug/l
RT: 3.973 min Scan# 353
Delta R.T. 0.031 min
Lab File: VY015591.D
Acq: 16 Sep 2023 00:49

Tgt Ion: 43 Resp: 12403
Ion Ratio Lower Upper
43 100
58 32.2 22.7 34.1





#17

Carbon Disulfide

Concen: 2.677 ug/l

RT: 4.204 min Scan# 391

Delta R.T. 0.018 min

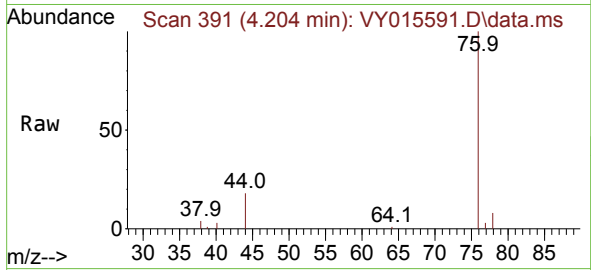
Lab File: VY015591.D

Acq: 16 Sep 2023 00:49

Instrument :

MSVOA_Y

ClientSampleId :

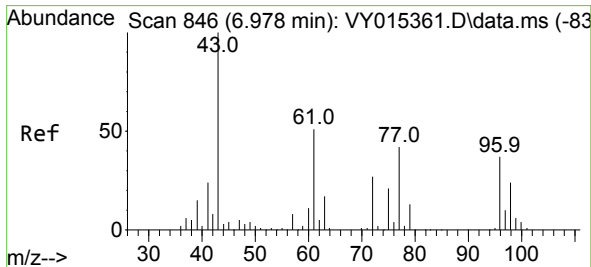
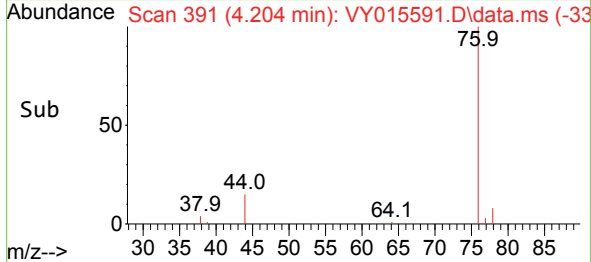
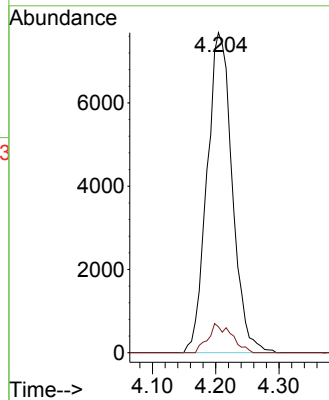


Tgt Ion: 76 Resp: 21291

Ion Ratio Lower Upper

76 100

78 8.1 7.0 10.4



#25

2-Butanone

Concen: 2.694 ug/l

RT: 7.009 min Scan# 851

Delta R.T. 0.031 min

Lab File: VY015591.D

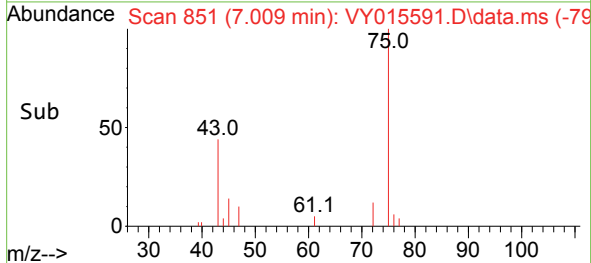
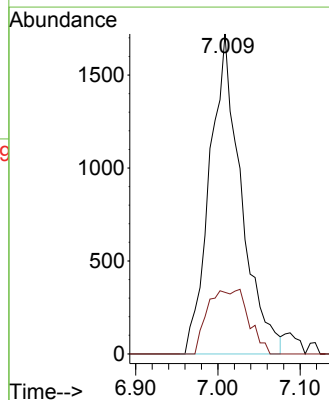
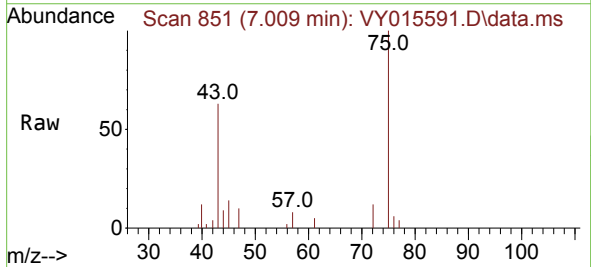
Acq: 16 Sep 2023 00:49

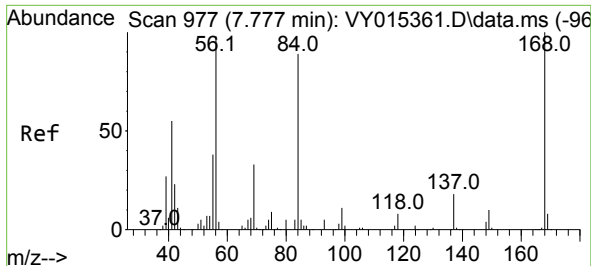
Tgt Ion: 43 Resp: 4575

Ion Ratio Lower Upper

43 100

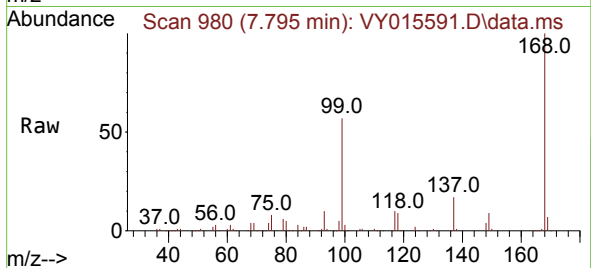
72 19.2 20.5 30.7#



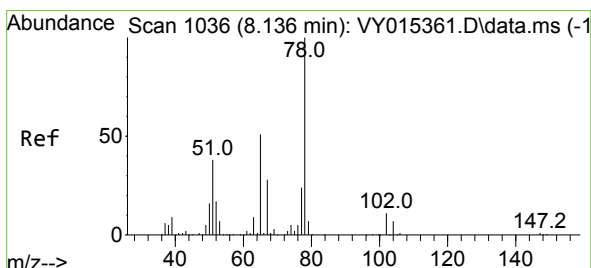
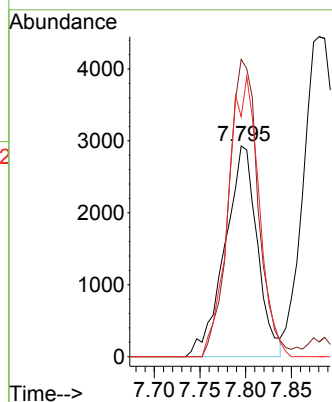
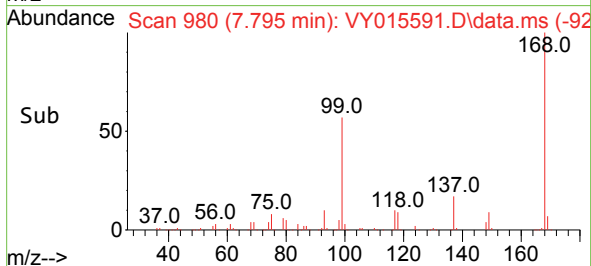


#31
Cyclohexane
Concen: 1.419 ug/l
RT: 7.795 min Scan# 91
Delta R.T. 0.012 min
Lab File: VY015591.D
Acq: 16 Sep 2023 00:49

Instrument :
MSVOA_Y
ClientSampleId :

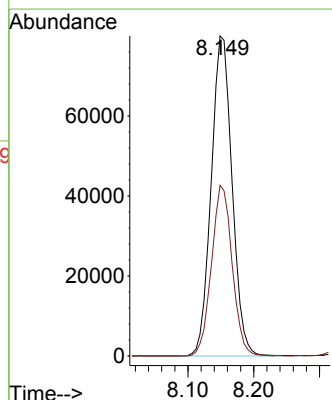
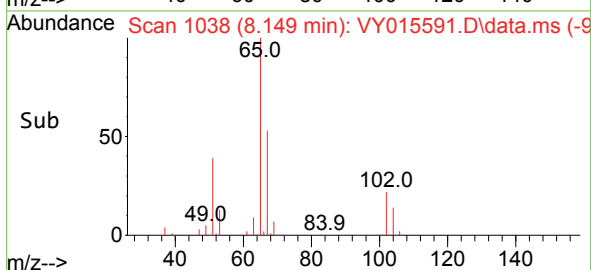
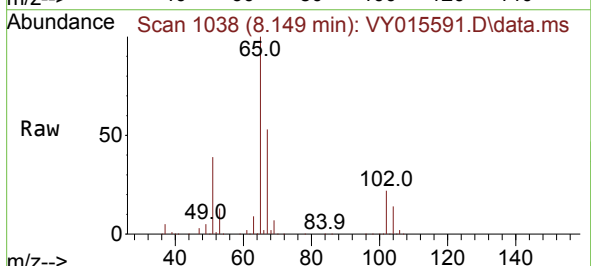


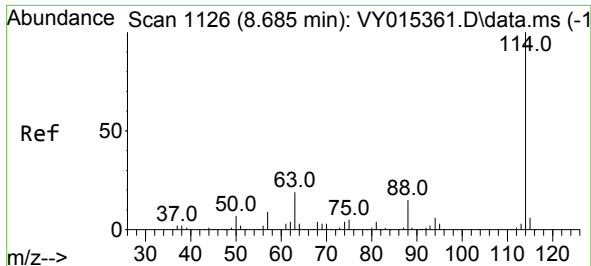
Tgt Ion: 56 Resp: 7233
Ion Ratio Lower Upper
56 100
69 141.1 27.8 41.6#
84 113.9 66.4 99.6#



#33
1,2-Dichloroethane-d4
Concen: 61.572 ug/l
RT: 8.149 min Scan# 1038
Delta R.T. 0.012 min
Lab File: VY015591.D
Acq: 16 Sep 2023 00:49

Tgt Ion: 65 Resp: 176645
Ion Ratio Lower Upper
65 100
67 52.8 0.0 101.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.697 min Scan# 1126

Delta R.T. 0.012 min

Lab File: VY015591.D

Acq: 16 Sep 2023 00:49

Instrument :

MSVOA_Y

ClientSampleId :

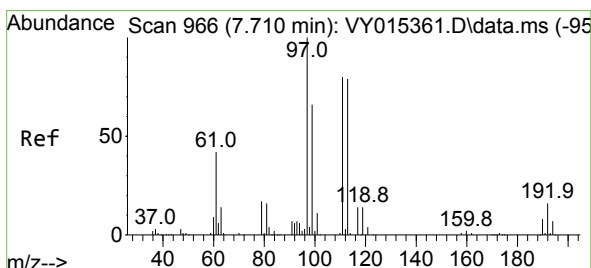
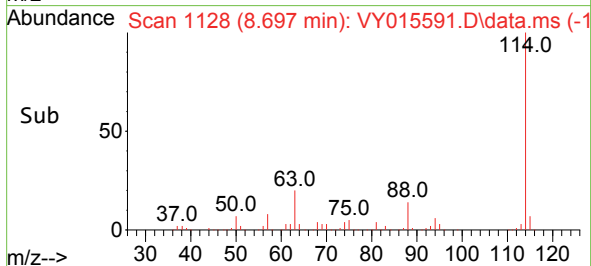
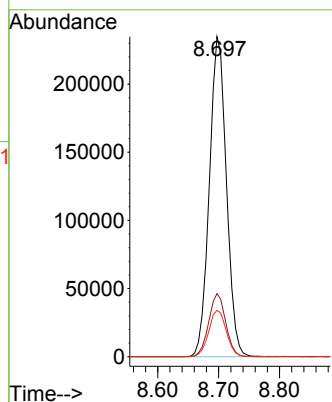
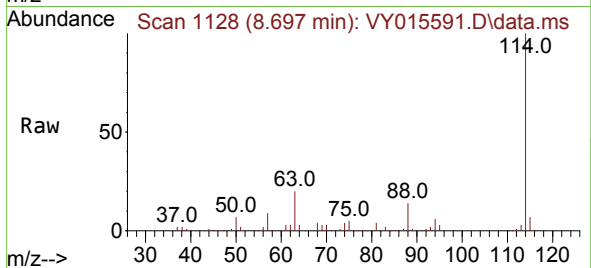
Tgt Ion:114 Resp: 456605

Ion Ratio Lower Upper

114 100

63 19.7 0.0 42.4

88 14.4 0.0 30.6



#35

Dibromofluoromethane

Concen: 55.415 ug/l

RT: 7.728 min Scan# 969

Delta R.T. 0.012 min

Lab File: VY015591.D

Acq: 16 Sep 2023 00:49

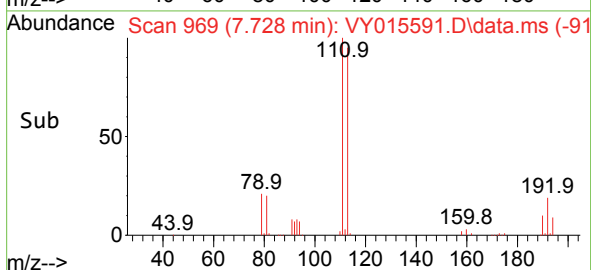
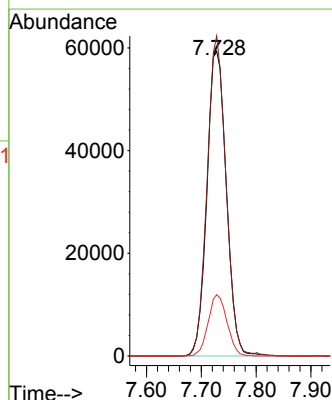
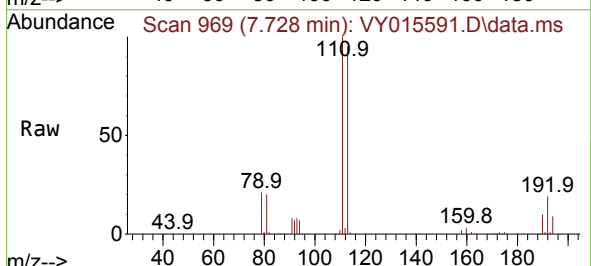
Tgt Ion:113 Resp: 145738

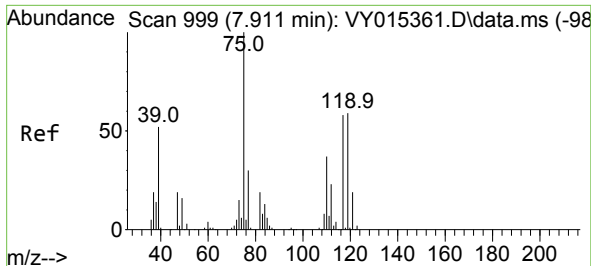
Ion Ratio Lower Upper

113 100

111 102.1 81.3 121.9

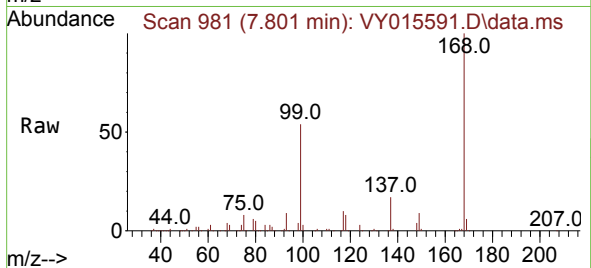
192 19.5 16.9 25.3



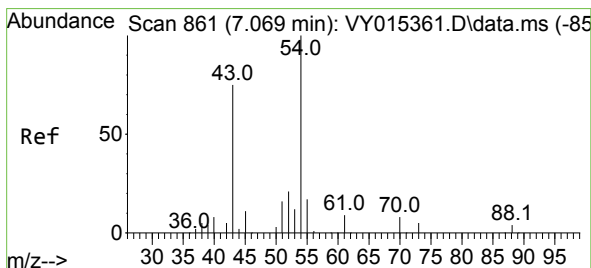
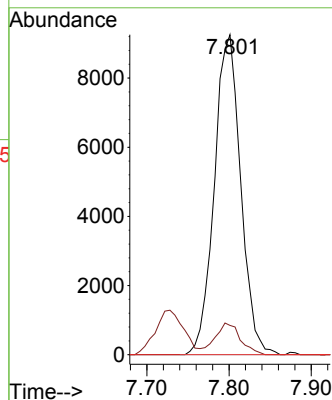
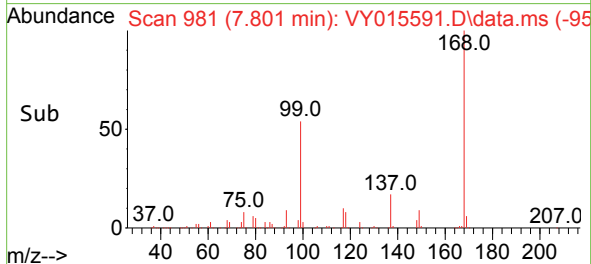


#36
1,1-Dichloropropene
Concen: 4.466 ug/l
RT: 7.801 min Scan# 91
Delta R.T. -0.110 min
Lab File: VY015591.D
Acq: 16 Sep 2023 00:49

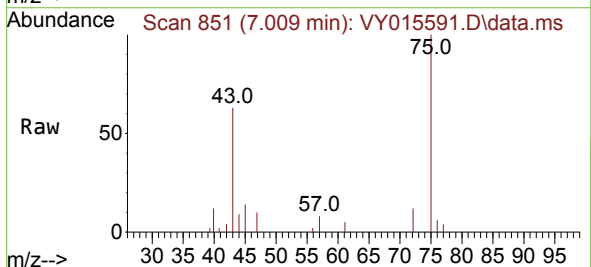
Instrument :
MSVOA_Y
ClientSampleId :



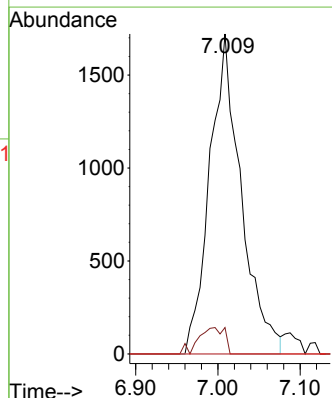
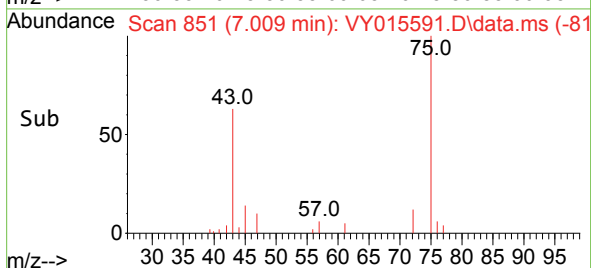
Tgt Ion: 75 Resp: 20624
Ion Ratio Lower Upper
75 100
110 9.5 17.8 53.5#
77 0.0 24.4 36.6#

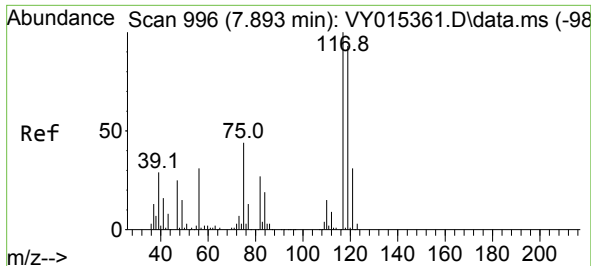


#37
Ethyl Acetate
Concen: 1.285 ug/l
RT: 7.009 min Scan# 851
Delta R.T. -0.055 min
Lab File: VY015591.D
Acq: 16 Sep 2023 00:49



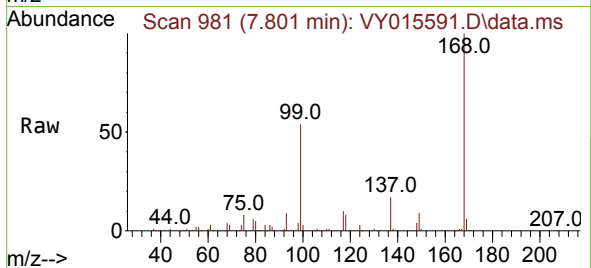
Tgt Ion: 43 Resp: 4575
Ion Ratio Lower Upper
43 100
61 6.9 10.1 15.1#
70 0.0 7.1 10.7#



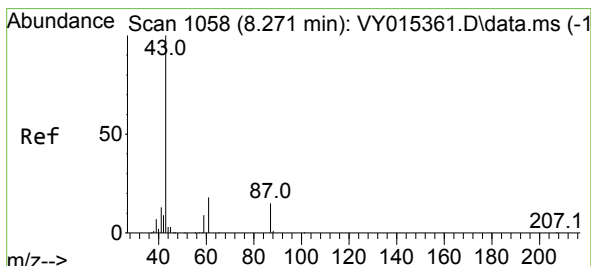
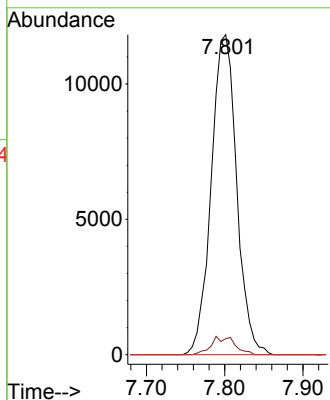
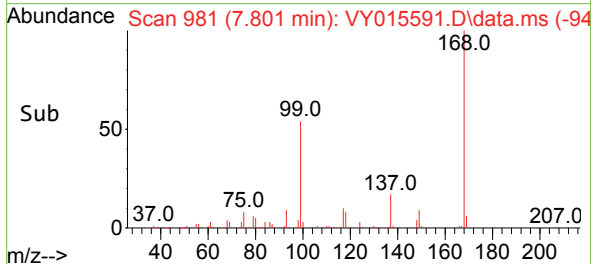


#38
Carbon Tetrachloride
Concen: 5.599 ug/l
RT: 7.801 min Scan# 91
Delta R.T. -0.091 min
Lab File: VY015591.D
Acq: 16 Sep 2023 00:49

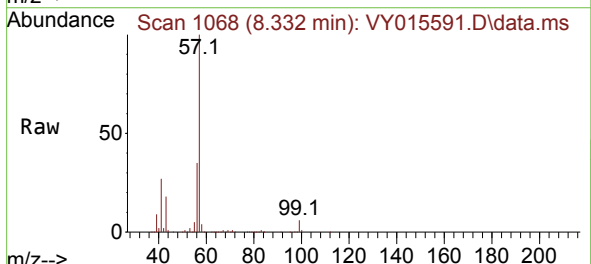
Instrument :
MSVOA_Y
ClientSampleId :



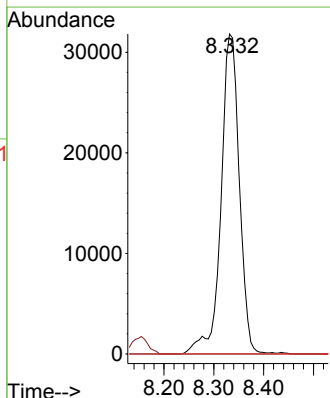
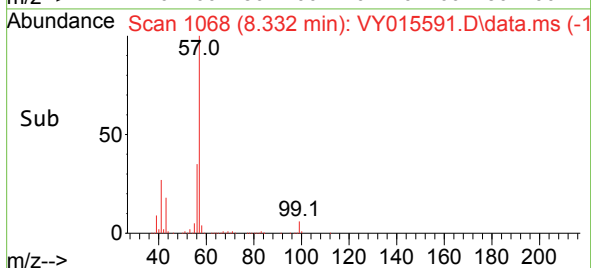
Tgt Ion: 117 Resp: 26706
Ion Ratio Lower Upper
117 100
119 5.0 76.4 114.6#
121 0.0 25.8 38.6#

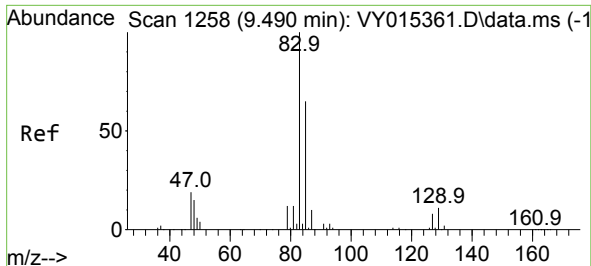


#43
Isopropyl Acetate
Concen: 13.177 ug/l
RT: 8.332 min Scan# 1068
Delta R.T. 0.067 min
Lab File: VY015591.D
Acq: 16 Sep 2023 00:49



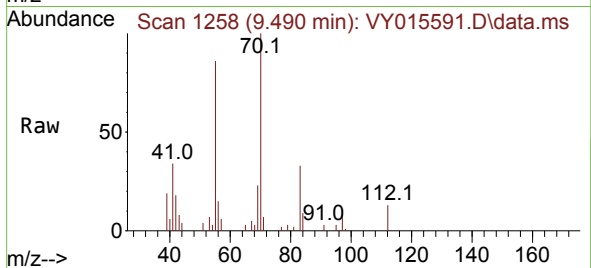
Tgt Ion: 43 Resp: 81155
Ion Ratio Lower Upper
43 100
61 0.0 21.1 31.7#
87 0.0 9.8 14.8#



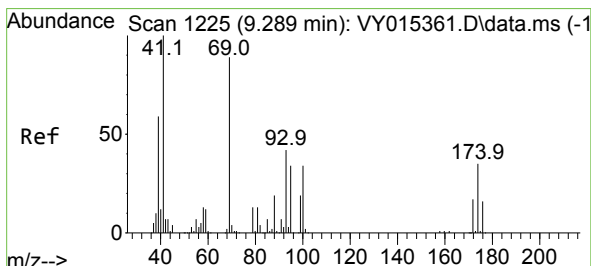
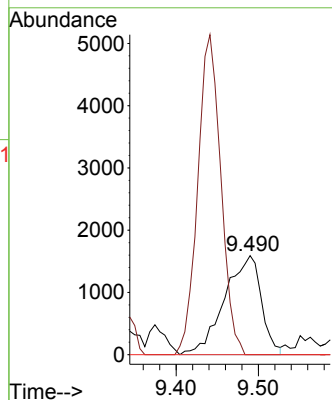
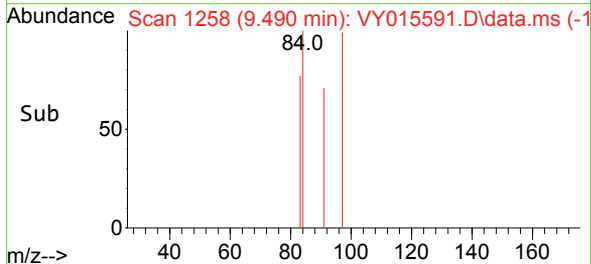


#47
Bromodichloromethane
Concen: 1.074 ug/l
RT: 9.490 min Scan# 1258
Delta R.T. 0.000 min
Lab File: VY015591.D
Acq: 16 Sep 2023 00:49

Instrument :
MSVOA_Y
ClientSampleId :

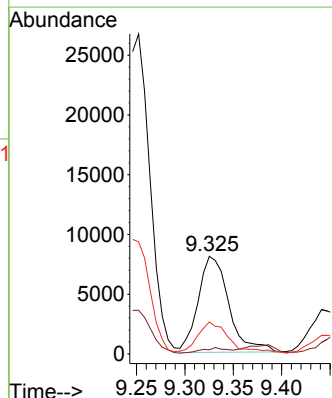
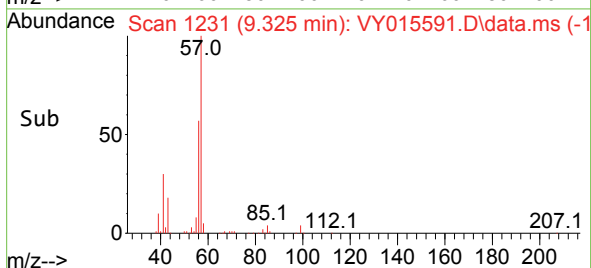
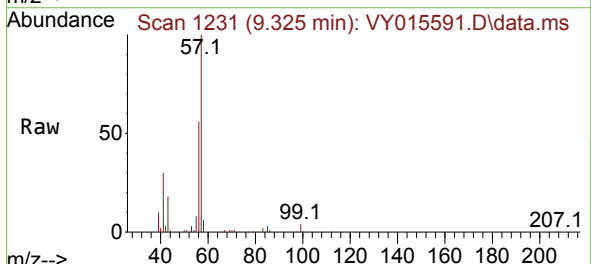


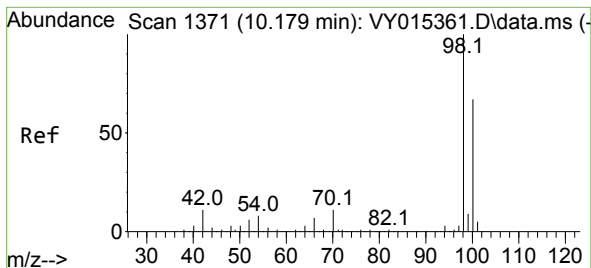
Tgt Ion: 83 Resp: 4957
Ion Ratio Lower Upper
83 100
85 0.0 50.1 75.1#
127 0.0 7.1 10.7#



#48
Methyl methacrylate
Concen: 6.265 ug/l
RT: 9.325 min Scan# 1231
Delta R.T. 0.037 min
Lab File: VY015591.D
Acq: 16 Sep 2023 00:49

Tgt Ion: 41 Resp: 17702
Ion Ratio Lower Upper
41 100
69 4.7 64.5 96.7#
39 33.6 50.8 76.2#





#50

Toluene-d8

Concen: 58.286 ug/l

RT: 10.185 min Scan# 1371

Delta R.T. 0.006 min

Lab File: VY015591.D

Acq: 16 Sep 2023 00:49

Instrument :

MSVOA_Y

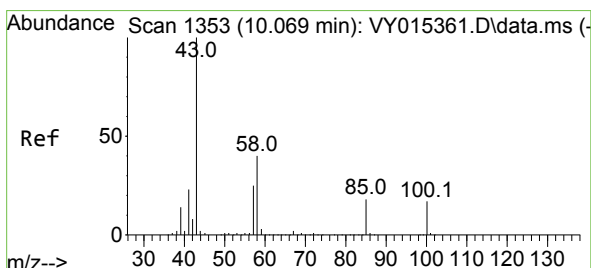
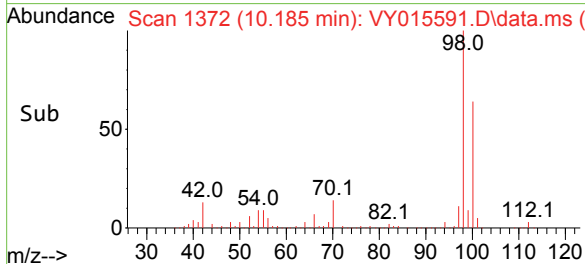
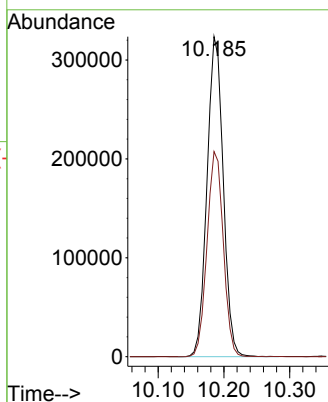
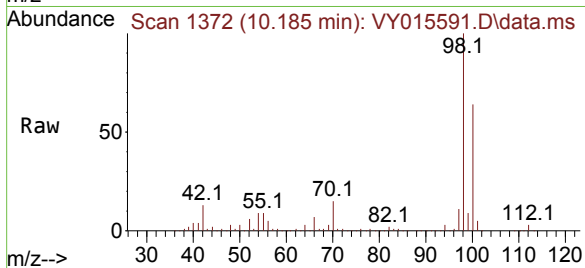
ClientSampleId :

Tgt Ion: 98 Resp: 555121

Ion Ratio Lower Upper

98 100

100 64.3 50.1 75.1



#51

4-Methyl-2-Pentanone

Concen: 45.018 ug/l

RT: 10.118 min Scan# 1361

Delta R.T. 0.049 min

Lab File: VY015591.D

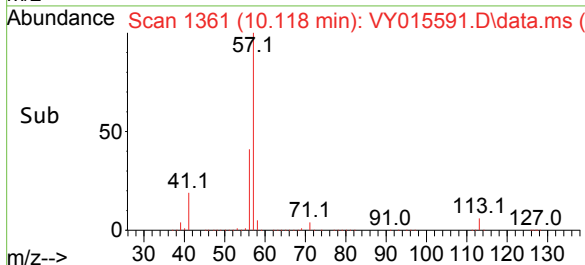
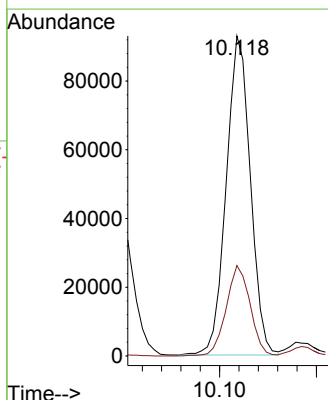
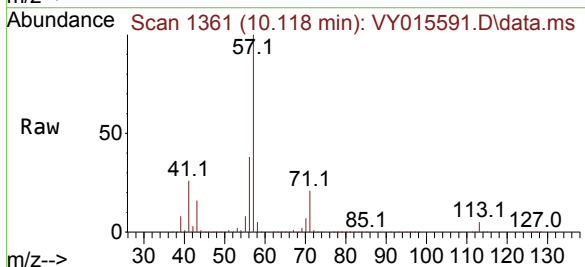
Acq: 16 Sep 2023 00:49

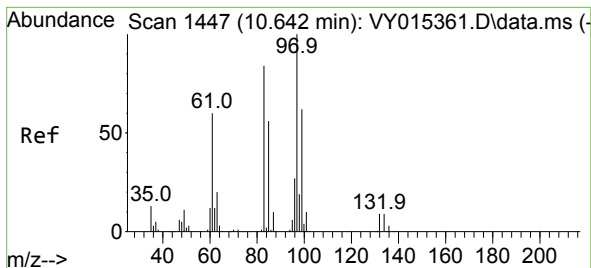
Tgt Ion: 43 Resp: 161147

Ion Ratio Lower Upper

43 100

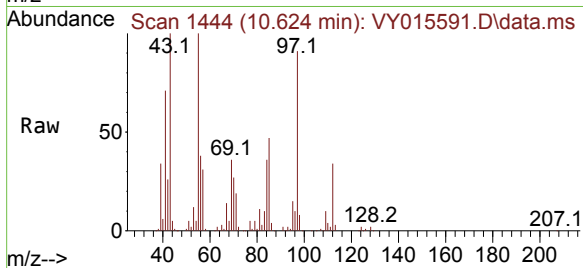
58 28.2 29.0 43.6#



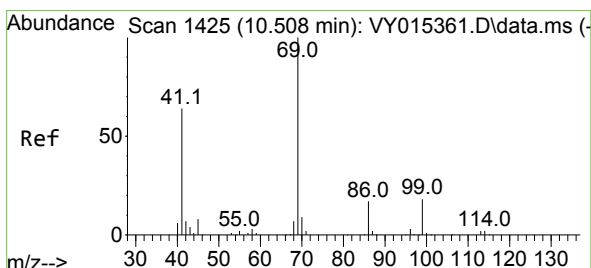
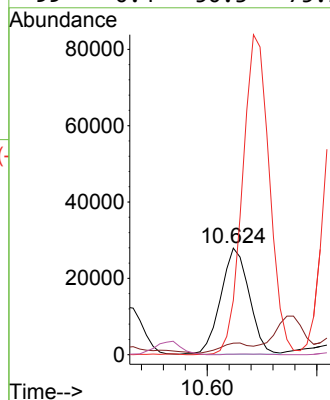
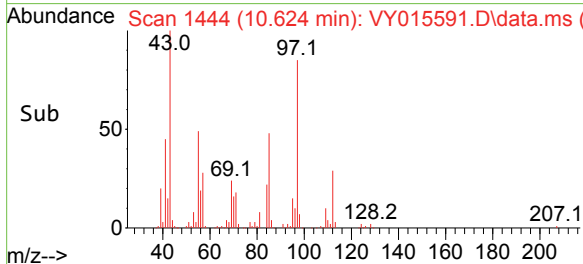


#55
1,1,2-Trichloroethane
Concen: 17.258 ug/l
RT: 10.624 min Scan# 1444
Delta R.T. -0.018 min
Lab File: VY015591.D
Acq: 16 Sep 2023 00:49

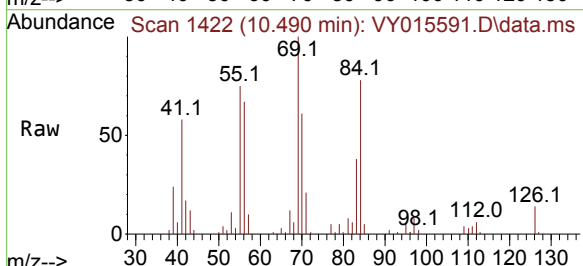
Instrument :
MSVOA_Y
ClientSampleId :



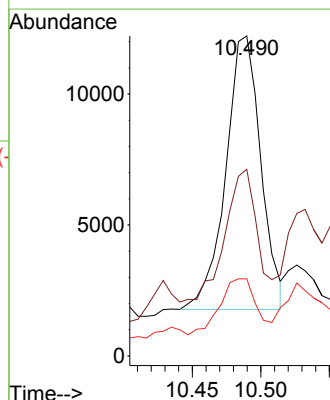
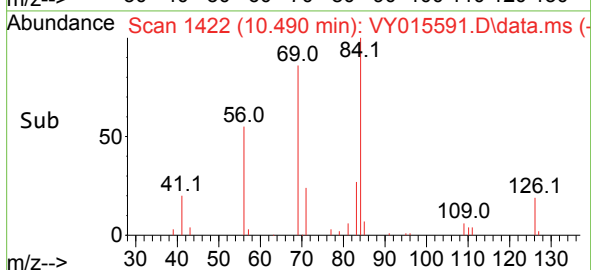
Tgt Ion: 97 Resp: 50167
Ion Ratio Lower Upper
97 100
83 8.0 72.0 108.0#
85 50.8 45.4 68.0
99 0.4 50.3 75.5#

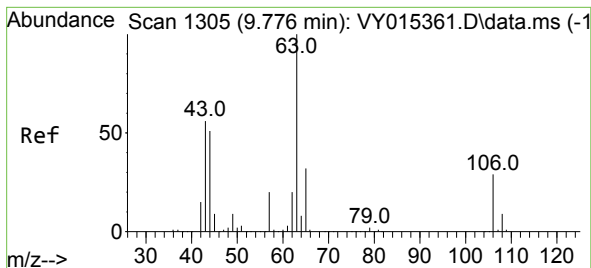


#56
Ethyl methacrylate
Concen: 4.324 ug/l
RT: 10.490 min Scan# 1422
Delta R.T. -0.018 min
Lab File: VY015591.D
Acq: 16 Sep 2023 00:49



Tgt Ion: 69 Resp: 18627
Ion Ratio Lower Upper
69 100
41 43.1 57.6 86.4#
39 28.5 34.1 51.1#

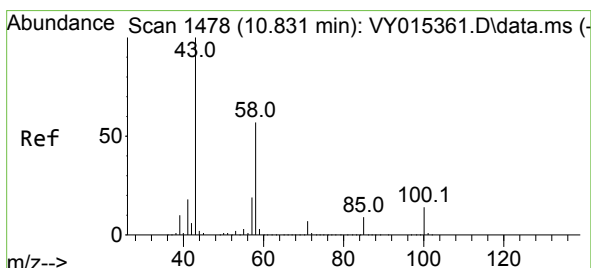
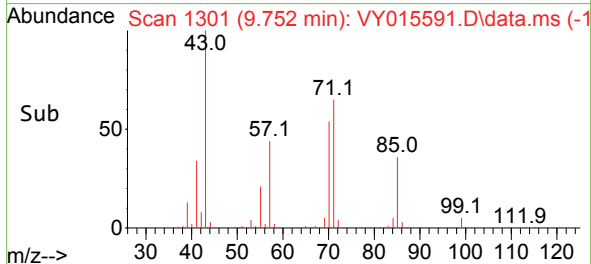
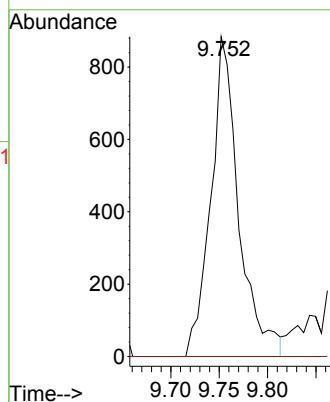
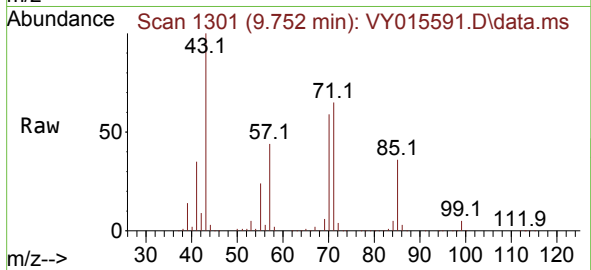




#58
 2-Chloroethyl Vinyl ether
 Concen: 1.152 ug/l
 RT: 9.752 min Scan# 11
 Delta R.T. -0.024 min
 Lab File: VY015591.D
 Acq: 16 Sep 2023 00:49

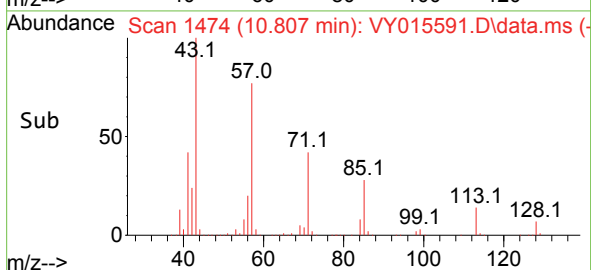
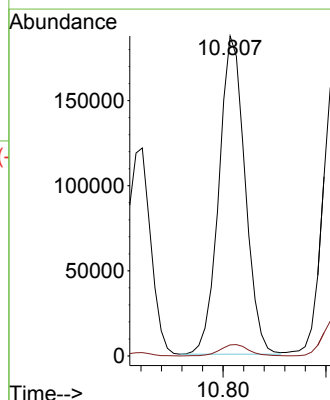
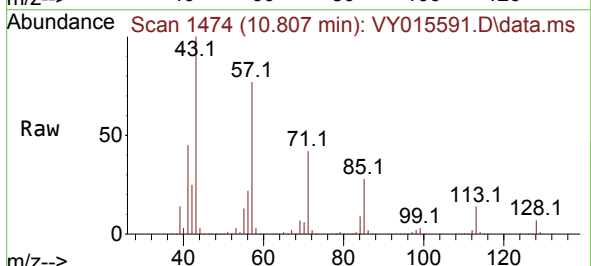
Instrument :
 MSVOA_Y
 ClientSampleId :

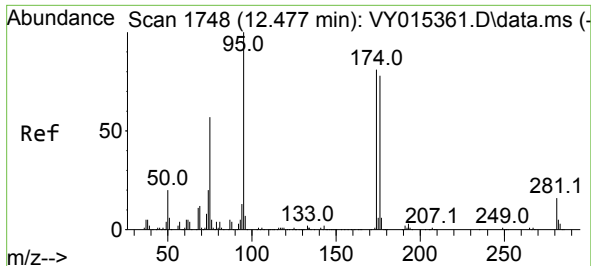
Tgt Ion: 63 Resp: 1771
 Ion Ratio Lower Upper
 63 100
 106 0.0 21.2 31.8#



#59
 2-Hexanone
 Concen: 122.719 ug/l
 RT: 10.807 min Scan# 1474
 Delta R.T. -0.024 min
 Lab File: VY015591.D
 Acq: 16 Sep 2023 00:49

Tgt Ion: 43 Resp: 329616
 Ion Ratio Lower Upper
 43 100
 58 4.0 25.1 75.3#

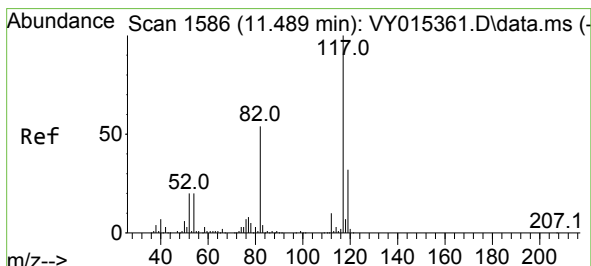
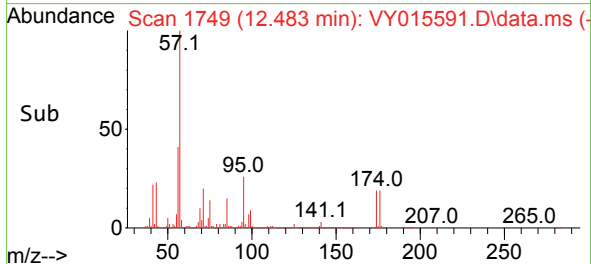
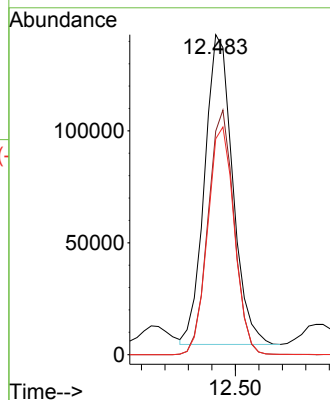
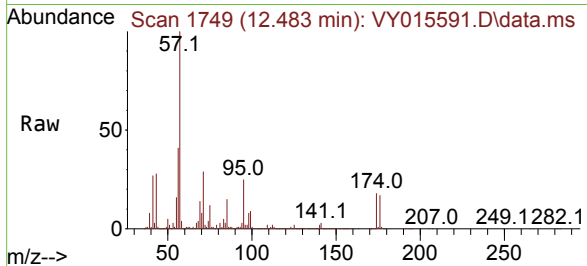




#62
4-Bromofluorobenzene
Concen: 64.895 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.006 min
Lab File: VY015591.D
Acq: 16 Sep 2023 00:49

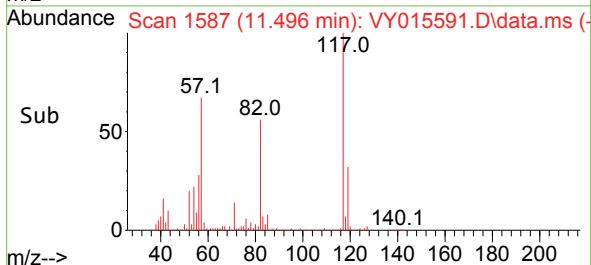
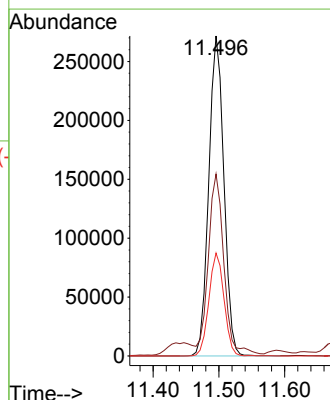
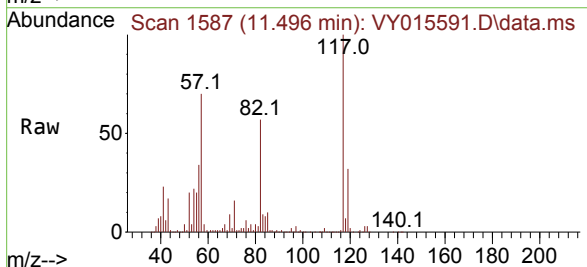
Instrument :
MSVOA_Y
ClientSampleId :

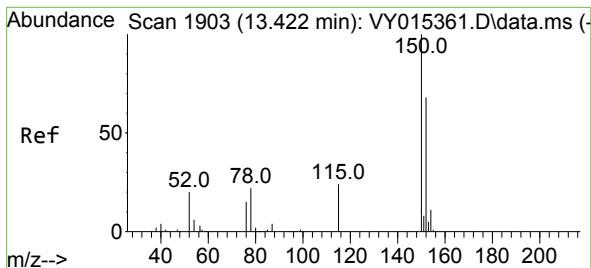
Tgt Ion: 95 Resp: 229448
Ion Ratio Lower Upper
95 100
174 73.3 0.0 178.2
176 70.2 0.0 173.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.496 min Scan# 1587
Delta R.T. 0.006 min
Lab File: VY015591.D
Acq: 16 Sep 2023 00:49

Tgt Ion: 117 Resp: 434561
Ion Ratio Lower Upper
117 100
82 55.2 43.4 65.0
119 32.1 26.3 39.5

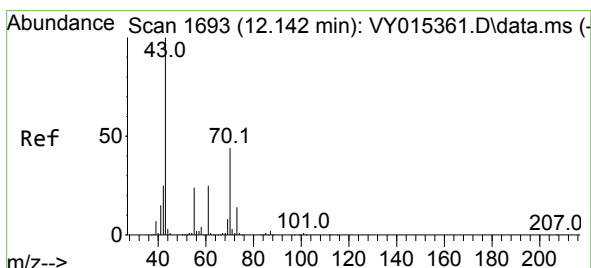
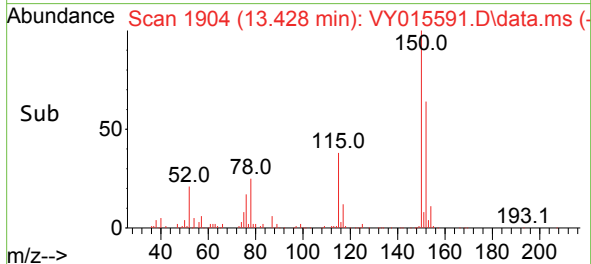
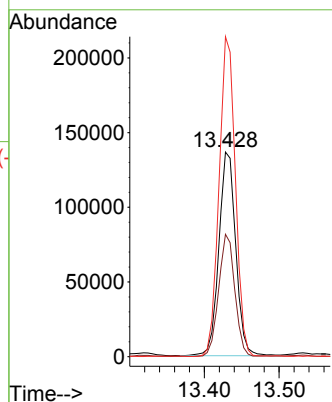
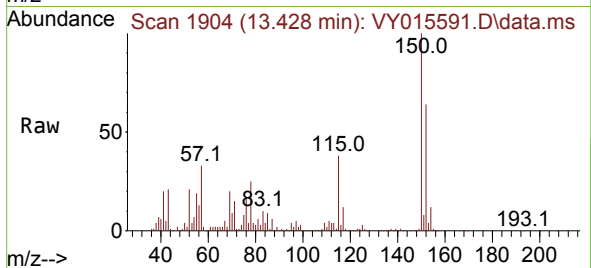




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.428 min Scan# 1903
 Delta R.T. 0.006 min
 Lab File: VY015591.D
 Acq: 16 Sep 2023 00:49

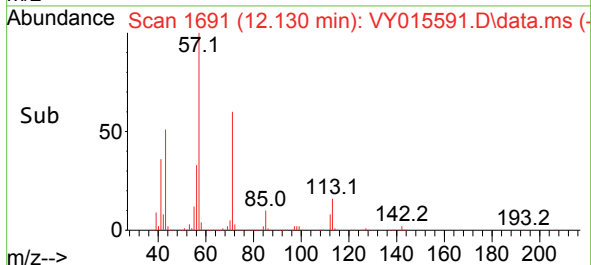
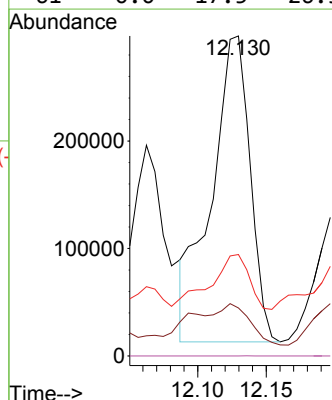
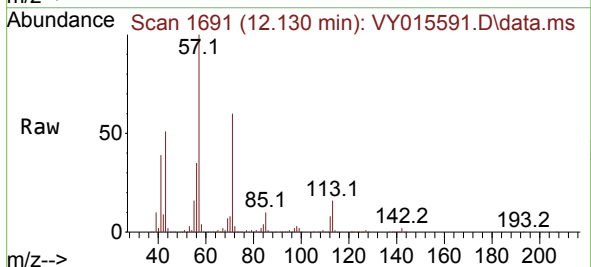
Instrument :
 MSVOA_Y
 ClientSampleId :

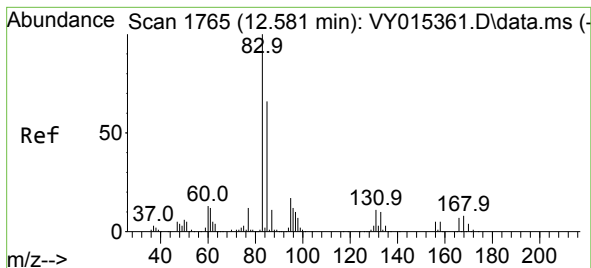
Tgt Ion:152 Resp: 214734
 Ion Ratio Lower Upper
 152 100
 115 57.3 28.8 86.5
 150 151.2 0.0 348.8



#74
 N-ethyl acetate
 Concen: 103.817 ug/l
 RT: 12.130 min Scan# 1691
 Delta R.T. -0.012 min
 Lab File: VY015591.D
 Acq: 16 Sep 2023 00:49

Tgt Ion: 43 Resp: 562571
 Ion Ratio Lower Upper
 43 100
 70 10.2 29.7 44.5#
 55 17.9 18.3 27.5#
 61 0.0 17.5 26.3#





#75

1,1,2,2-Tetrachloroethane

Concen: 3.586 ug/l

RT: 12.581 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY015591.D

Acq: 16 Sep 2023 00:49

Instrument :

MSVOA_Y

ClientSampleId :

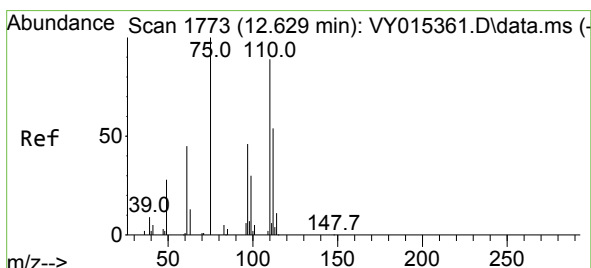
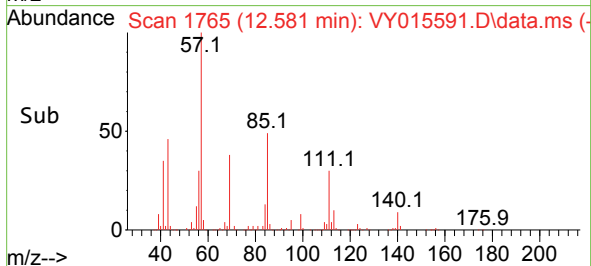
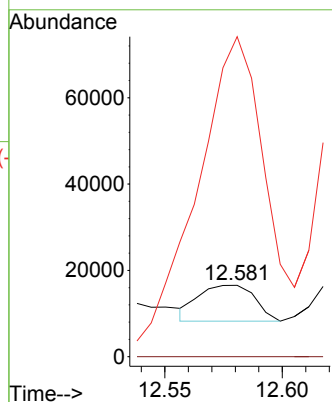
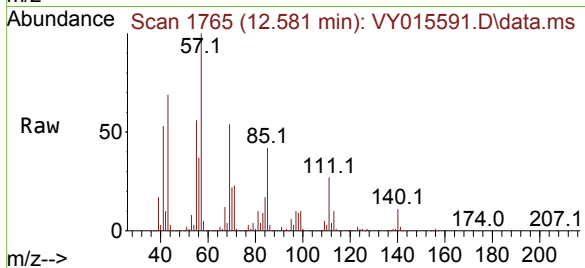
Tgt Ion: 83 Resp: 13808

Ion Ratio Lower Upper

83 100

131 0.0 5.4 16.2#

85 1051.4 31.8 95.4#



#76

1,2,3-Trichloropropane

Concen: 38.323 ug/l

RT: 12.483 min Scan# 1749

Delta R.T. -0.146 min

Lab File: VY015591.D

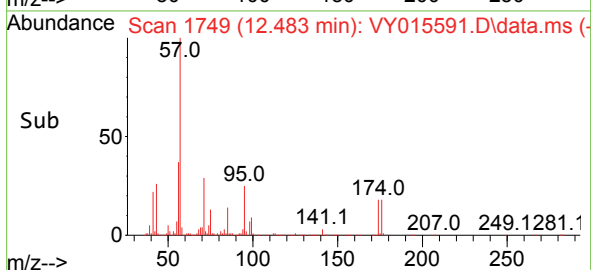
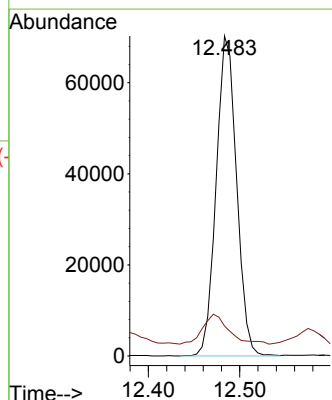
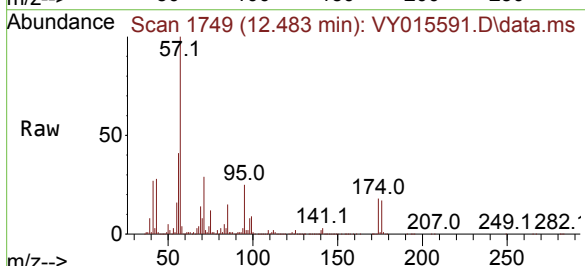
Acq: 16 Sep 2023 00:49

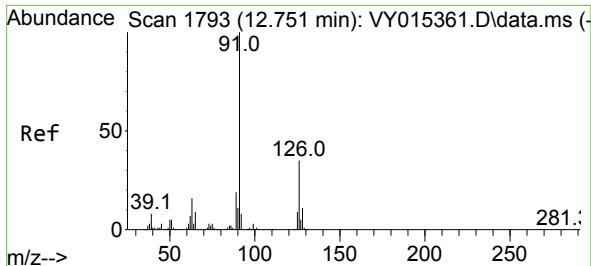
Tgt Ion: 75 Resp: 109130

Ion Ratio Lower Upper

75 100

77 11.8 0.0 0.0#

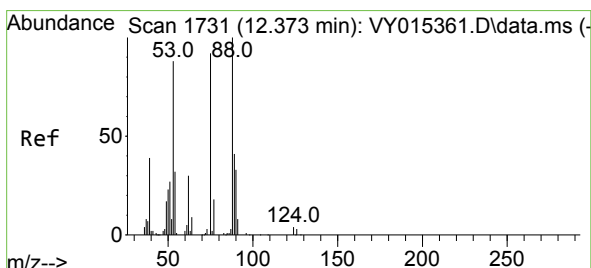
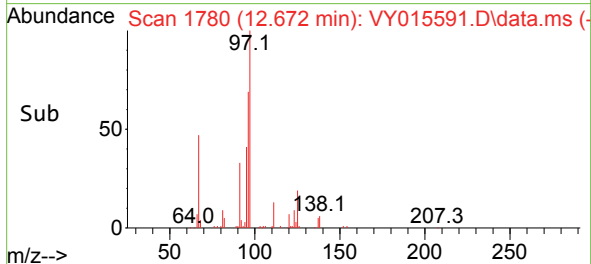
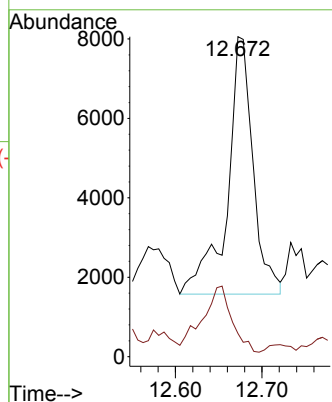
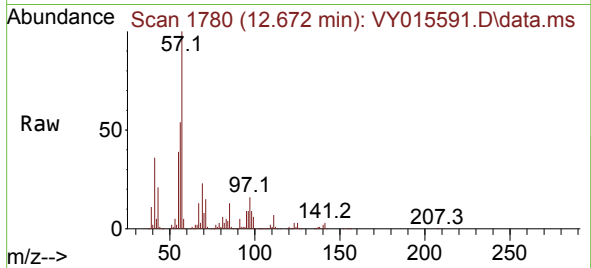




#79
2-Chlorotoluene
Concen: 1.225 ug/l
RT: 12.672 min Scan# 11
Delta R.T. -0.079 min
Lab File: VY015591.D
Acq: 16 Sep 2023 00:49

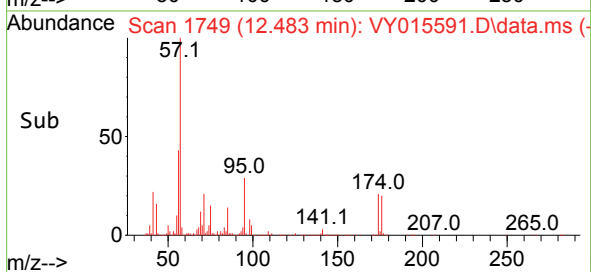
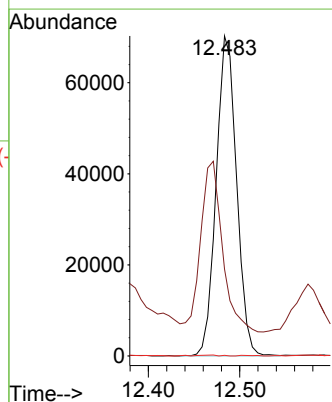
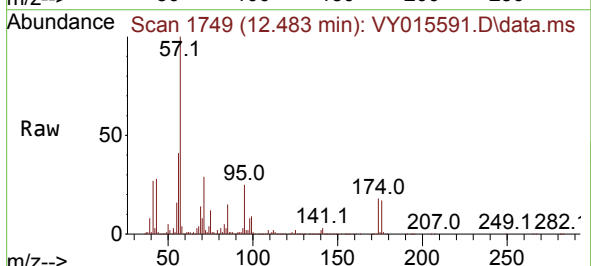
Instrument :
MSVOA_Y
ClientSampleId :

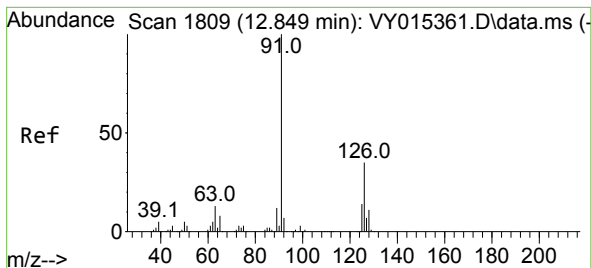
Tgt Ion: 91 Resp: 13407
Ion Ratio Lower Upper
91 100
126 29.4 17.3 51.7



#81
trans-1,4-Dichloro-2-butene
Concen: 84.538 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.104 min
Lab File: VY015591.D
Acq: 16 Sep 2023 00:49

Tgt Ion: 75 Resp: 109130
Ion Ratio Lower Upper
75 100
53 57.3 77.8 116.8#
89 0.3 37.4 56.0#





#82

4-Chlorotoluene

Concen: 1.178 ug/l

RT: 12.672 min Scan# 11

Delta R.T. -0.177 min

Lab File: VY015591.D

Acq: 16 Sep 2023 00:49

Instrument :

MSVOA_Y

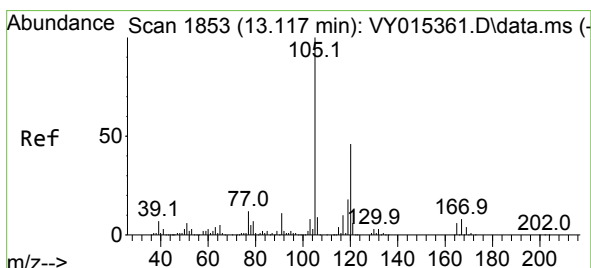
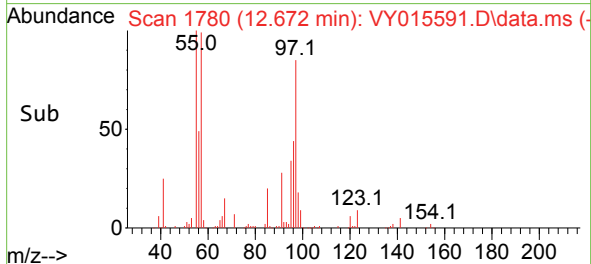
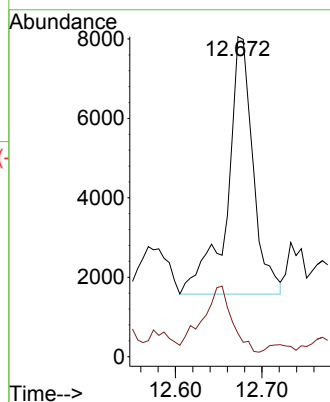
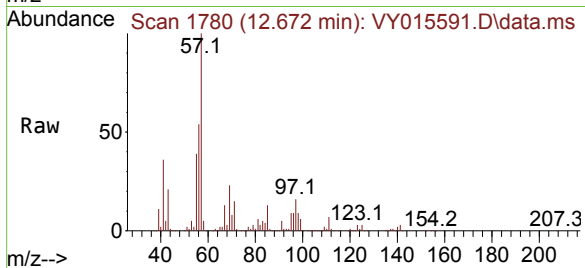
ClientSampleId :

Tgt Ion: 91 Resp: 13407

Ion Ratio Lower Upper

91 100

126 29.4 17.2 51.6



#84

1,2,4-Trimethylbenzene

Concen: 12.209 ug/l

RT: 13.258 min Scan# 1876

Delta R.T. 0.140 min

Lab File: VY015591.D

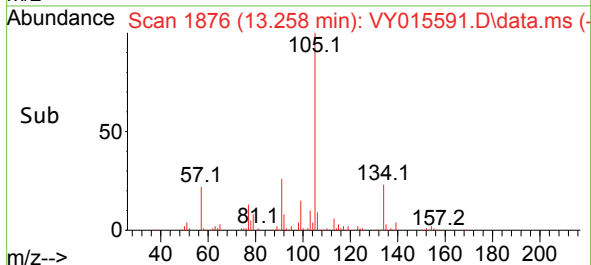
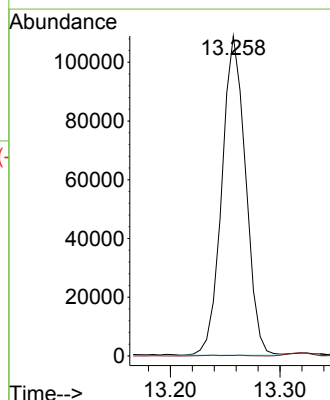
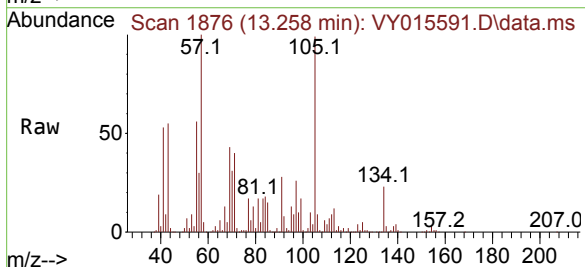
Acq: 16 Sep 2023 00:49

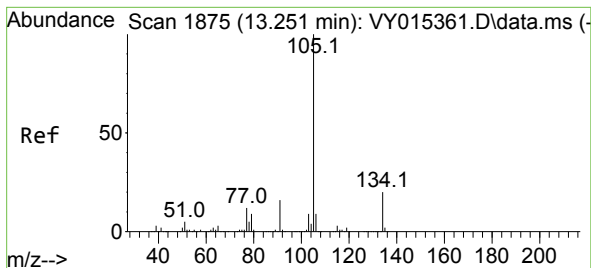
Tgt Ion:105 Resp: 163546

Ion Ratio Lower Upper

105 100

120 0.2 22.2 66.6#





#85

sec-Butylbenzene

Concen: 9.279 ug/l

RT: 13.258 min Scan# 1875

Delta R.T. 0.006 min

Lab File: VY015591.D

Acq: 16 Sep 2023 00:49

Instrument :

MSVOA_Y

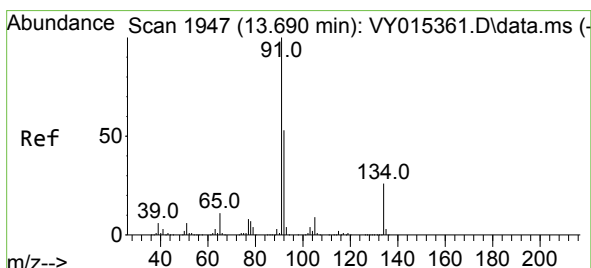
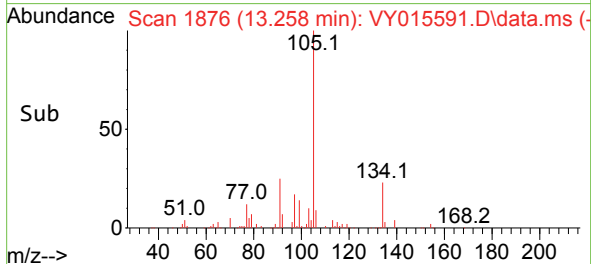
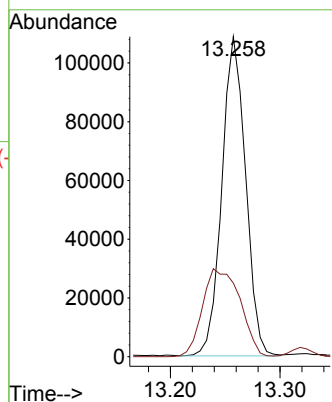
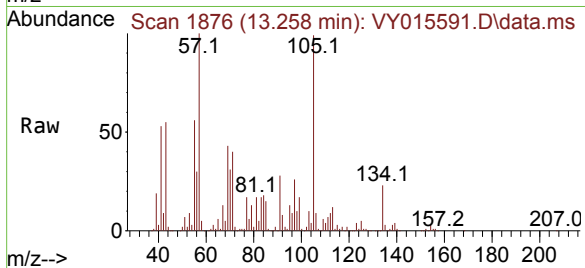
ClientSampleId :

Tgt Ion:105 Resp: 163546

Ion Ratio Lower Upper

105 100

134 43.5 10.2 30.6#



#89

n-Butylbenzene

Concen: 9.534 ug/l

RT: 13.703 min Scan# 1949

Delta R.T. 0.006 min

Lab File: VY015591.D

Acq: 16 Sep 2023 00:49

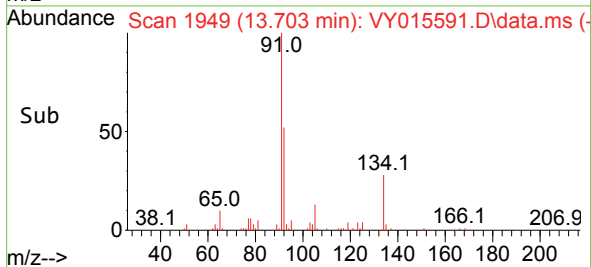
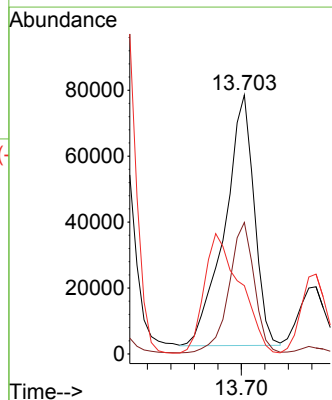
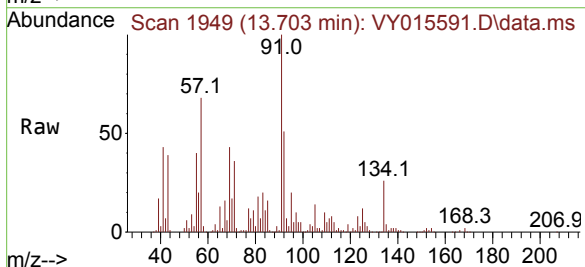
Tgt Ion: 91 Resp: 132552

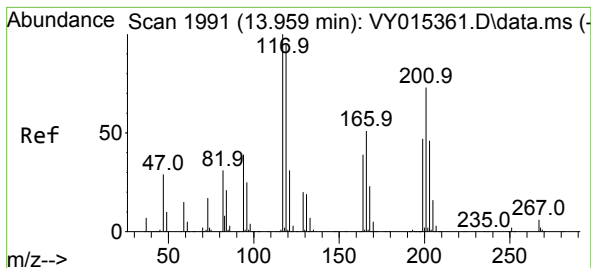
Ion Ratio Lower Upper

91 100

92 44.6 25.4 76.0

134 0.0 12.6 37.6#





#90

Hexachloroethane

Concen: 9.545 ug/l

RT: 13.977 min Scan# 1994

Delta R.T. 0.018 min

Lab File: VY015591.D

Acq: 16 Sep 2023 00:49

Instrument :

MSVOA_Y

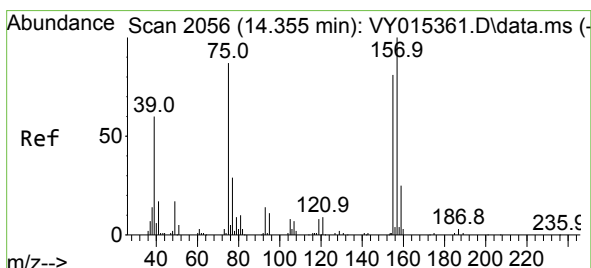
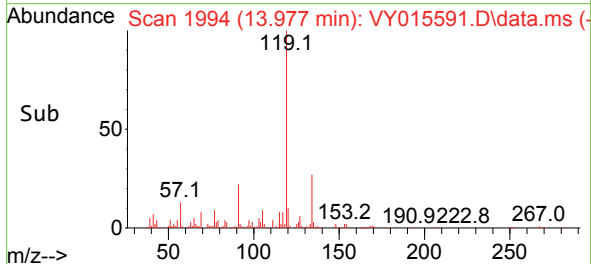
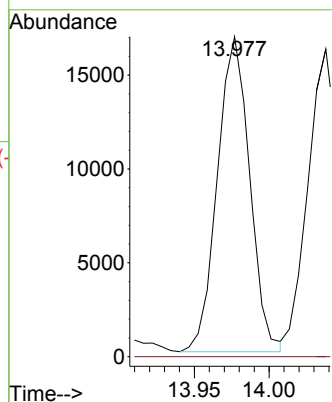
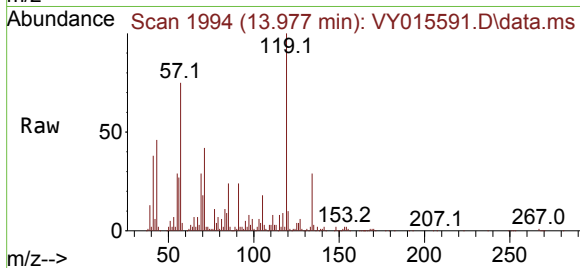
ClientSampleId :

Tgt Ion:117 Resp: 25217

Ion Ratio Lower Upper

117 100

201 0.0 41.6 124.8#



#92

1,2-Dibromo-3-Chloropropane

Concen: 8.028 ug/l

RT: 14.337 min Scan# 2053

Delta R.T. -0.018 min

Lab File: VY015591.D

Acq: 16 Sep 2023 00:49

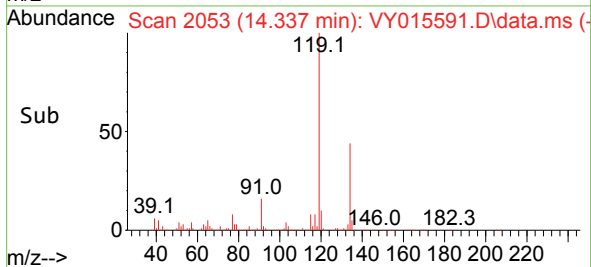
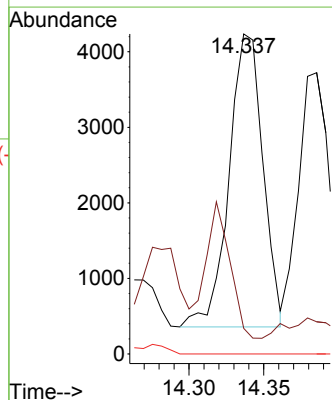
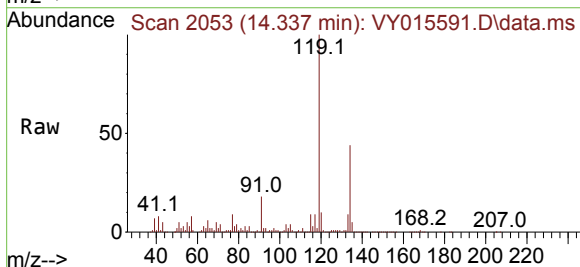
Tgt Ion: 75 Resp: 6115

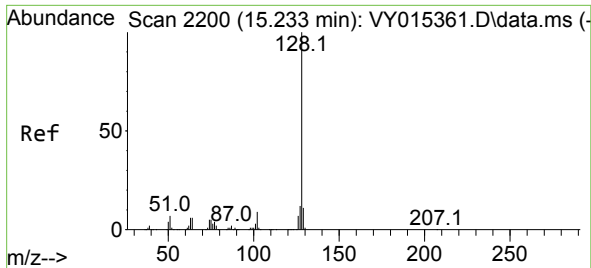
Ion Ratio Lower Upper

75 100

155 33.4 41.5 124.6#

157 0.0 51.8 155.5#





#95

Naphthalene

Concen: 1.717 ug/l

RT: 15.214 min Scan# 21

Delta R.T. -0.018 min

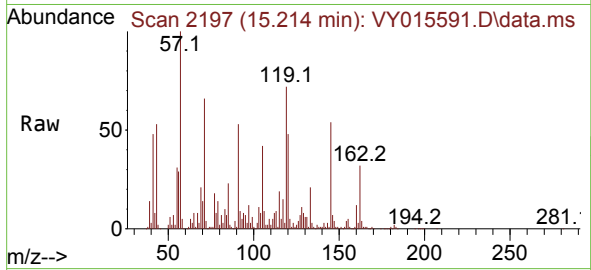
Lab File: VY015591.D

Acq: 16 Sep 2023 00:49

Instrument :

MSVOA_Y

ClientSampleId :



Tgt Ion:128 Resp: 18381

Ion Ratio Lower Upper

128 100

127 113.7 10.8 16.2#

129 68.7 8.6 13.0#

