

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
 Data File : VY022412.D
 Acq On : 23 May 2025 17:37
 Operator : SY/MD
 Sample : Q2112-01
 Misc : 5.78g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 EO-03-05222025RE

Quant Time: May 23 23:22:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 16 01:42:09 2025
 Response via : Initial Calibration

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

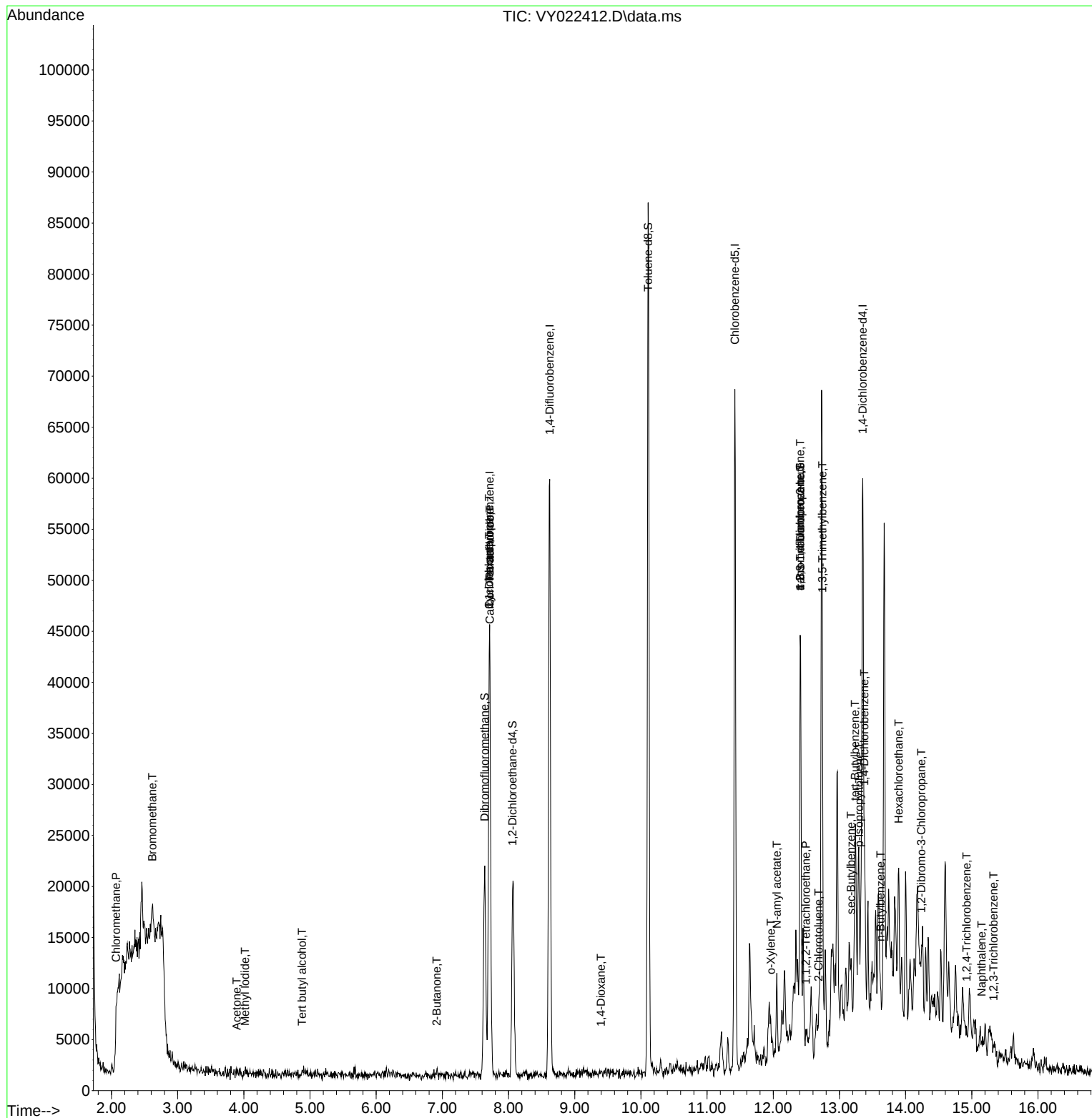
Internal Standards						
1) Pentafluorobenzene	7.713	168	33012	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.622	114	50569	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	34028	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	11120	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	15145	41.977	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	83.960%		
35) Dibromofluoromethane	7.640	113	13413	44.440	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	88.880%		
50) Toluene-d8	10.109	98	55041	44.526	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	89.060%		
62) 4-Bromofluorobenzene	12.408	95	12152	31.015	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	62.020%		
Target Compounds						Qvalue
3) Chloromethane	2.068	50	936	1.292	ug/l #	68
5) Bromomethane	2.617	94	2085	3.164	ug/l	82
10) Methyl Iodide	4.019	142	448	1.088	ug/l #	74
11) Tert butyl alcohol	4.878	59	30	1.089	ug/l #	100
16) Acetone	3.891	43	228	3.370	ug/l #	45
25) 2-Butanone	6.915	43	177	1.564	ug/l #	47
31) Cyclohexane	7.707	56	906	1.241	ug/l #	64
36) 1,1-Dichloropropene	7.707	75	2953	5.940	ug/l #	47
38) Carbon Tetrachloride	7.719	117	3803	7.390	ug/l #	15
49) 1,4-Dioxane	9.396	88	19	8.776	ug/l #	1
69) o-Xylene	11.962	106	693	1.352	ug/l	90
74) N-amyl acetate	12.054	43	1518	5.761	ug/l #	65
75) 1,1,2,2-Tetrachloroethane	12.493	83	219	1.546	ug/l #	26
76) 1,2,3-Trichloropropane	12.408	75	6383	56.659	ug/l #	100
79) 2-Chlorotoluene	12.682	91	851	1.394	ug/l #	41
80) 1,3,5-Trimethylbenzene	12.743	105	5133	6.902	ug/l	96
81) trans-1,4-Dichloro-2-b...	12.408	75	6383	114.776	ug/l #	13
83) tert-Butylbenzene	13.237	119	2751	4.162	ug/l	71
85) sec-Butylbenzene	13.176	105	1726	1.759	ug/l #	71
86) p-Isopropyltoluene	13.298	119	2198	2.664	ug/l	95
88) 1,4-Dichlorobenzene	13.377	146	398	1.030	ug/l #	1
89) n-Butylbenzene	13.621	91	1581	2.025	ug/l #	67
90) Hexachloroethane	13.895	117	528	3.170	ug/l #	14
92) 1,2-Dibromo-3-Chloropr...	14.236	75	67	2.933	ug/l #	1
93) 1,2,4-Trichlorobenzene	14.919	180	309	1.586	ug/l #	1
95) Naphthalene	15.151	128	965	2.609	ug/l #	82
96) 1,2,3-Trichlorobenzene	15.328	180	237	1.434	ug/l #	41

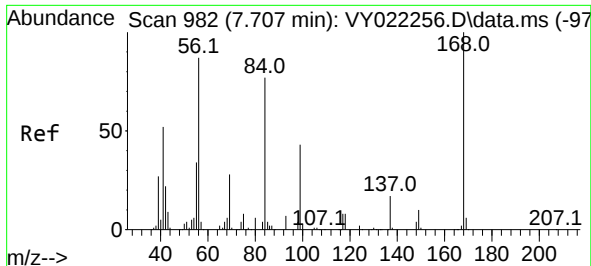
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022412.D
Acq On : 23 May 2025 17:37
Operator : SY/MD
Sample : Q2112-01
Misc : 5.78g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
EO-03-05222025RE

Quant Time: May 23 23:22:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

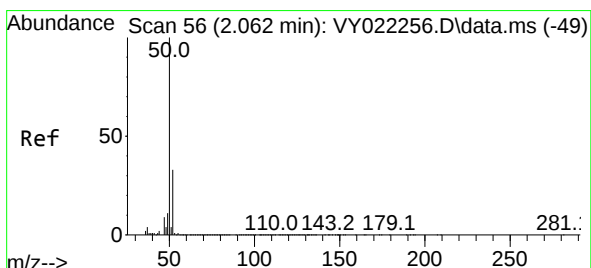
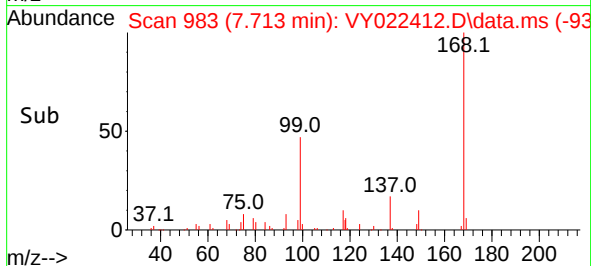
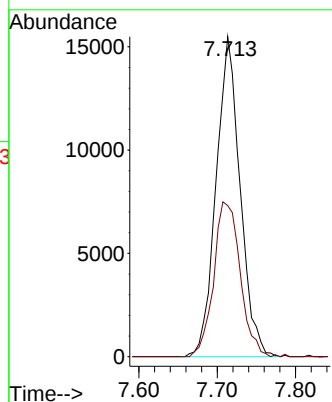
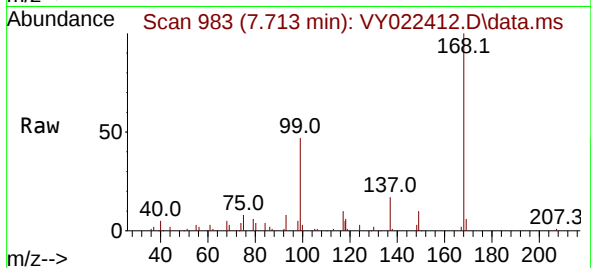




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY022412.D
Acq: 23 May 2025 17:37

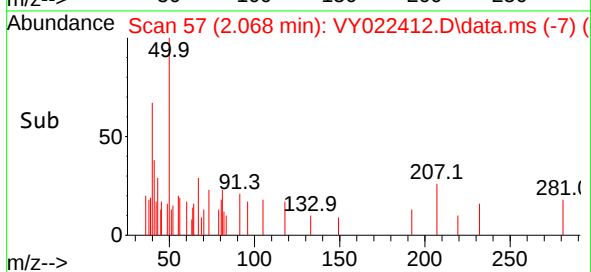
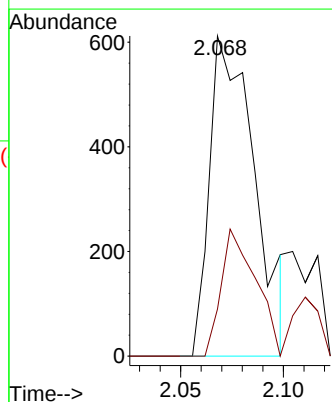
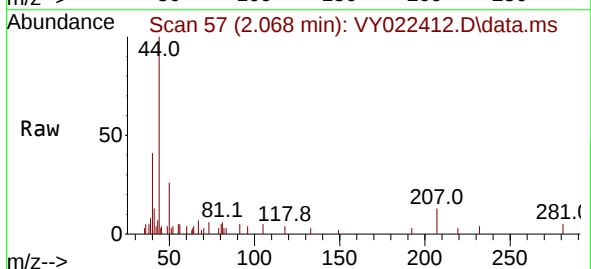
Instrument :
MSVOA_Y
ClientSampleId :
EO-03-05222025RE

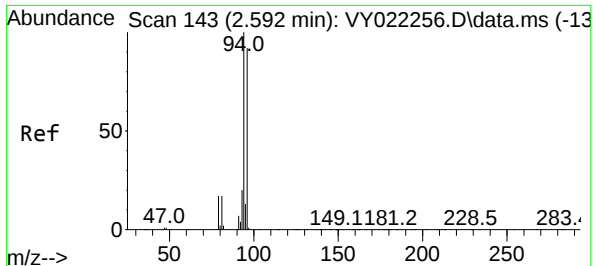
Tgt Ion:168 Resp: 33012
Ion Ratio Lower Upper
168 100
99 47.2 44.2 66.4



#3
Chloromethane
Concen: 1.292 ug/l
RT: 2.068 min Scan# 57
Delta R.T. 0.006 min
Lab File: VY022412.D
Acq: 23 May 2025 17:37

Tgt Ion: 50 Resp: 936
Ion Ratio Lower Upper
50 100
52 14.7 26.5 39.7#

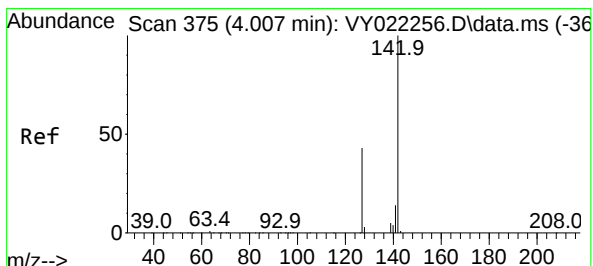
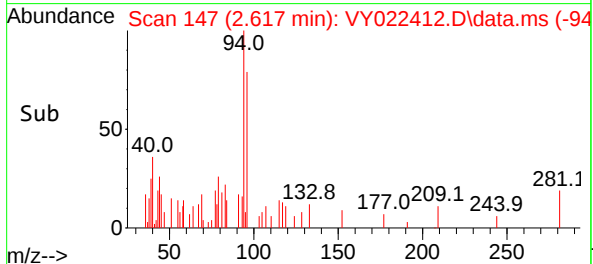
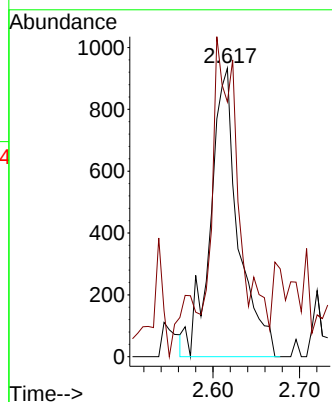
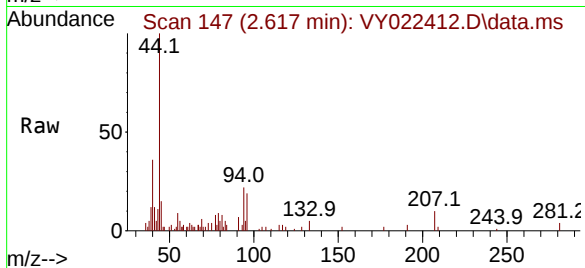




#5
Bromomethane
Concen: 3.164 ug/l
RT: 2.617 min Scan# 143
Delta R.T. 0.024 min
Lab File: VY022412.D
Acq: 23 May 2025 17:37

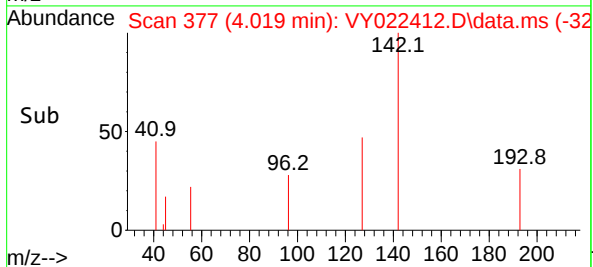
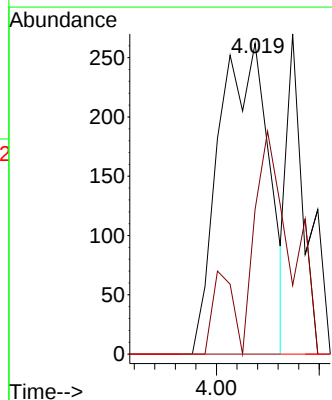
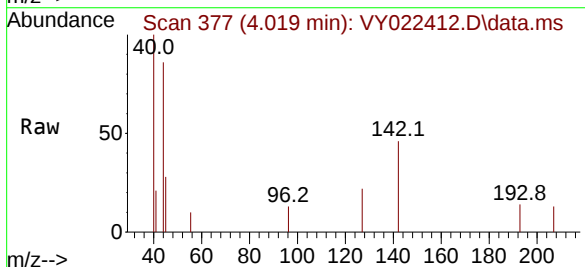
Instrument :
MSVOA_Y
ClientSampleId :
EO-03-05222025RE

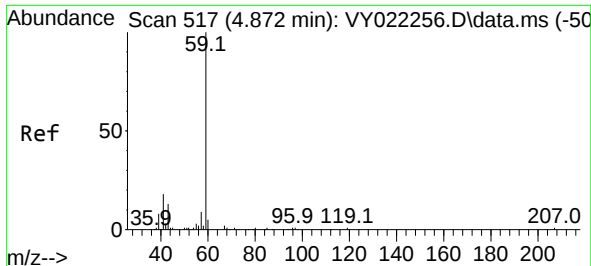
Tgt Ion: 94 Resp: 2085
Ion Ratio Lower Upper
94 100
96 74.7 73.4 110.0



#10
Methyl Iodide
Concen: 1.088 ug/l
RT: 4.019 min Scan# 377
Delta R.T. 0.012 min
Lab File: VY022412.D
Acq: 23 May 2025 17:37

Tgt Ion: 142 Resp: 448
Ion Ratio Lower Upper
142 100
127 60.3 35.7 53.5#
141 0.0 11.1 16.7#

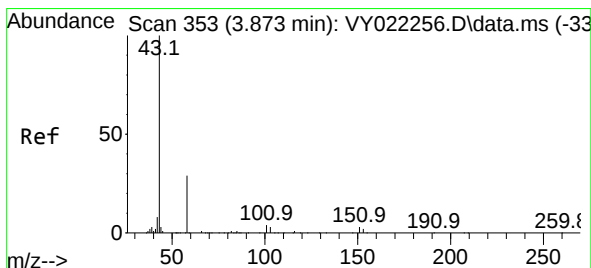
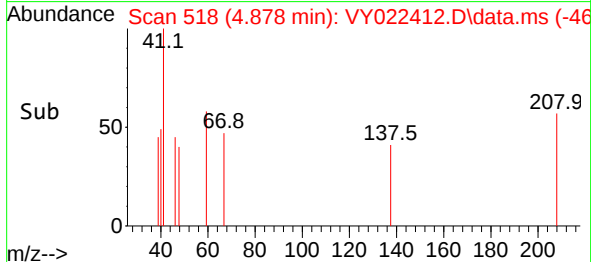
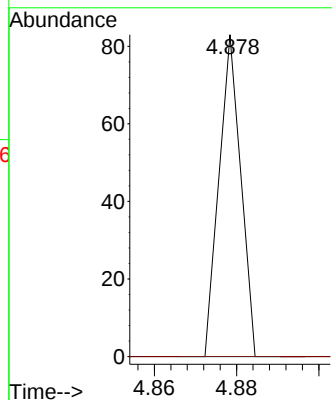
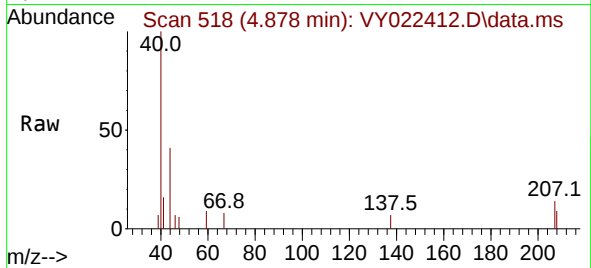




#11
Tert butyl alcohol
Concen: 1.089 ug/l
RT: 4.878 min Scan# 517
Delta R.T. 0.006 min
Lab File: VY022412.D
Acq: 23 May 2025 17:37

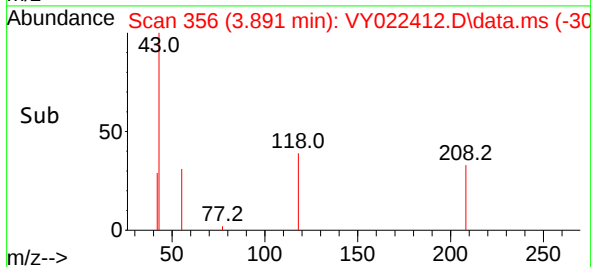
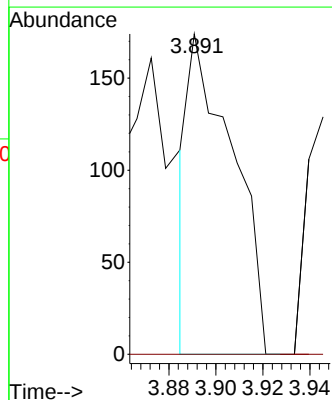
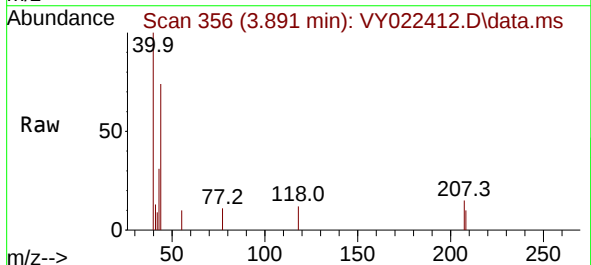
Instrument :
MSVOA_Y
ClientSampleId :
EO-03-05222025RE

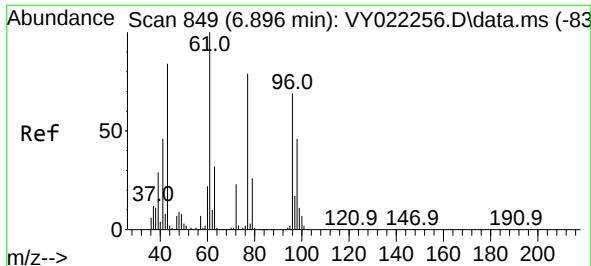
Tgt Ion: 59 Resp: 30
Ion Ratio Lower Upper
59 100
57 0.0 0.0 0.0



#16
Acetone
Concen: 3.370 ug/l
RT: 3.891 min Scan# 356
Delta R.T. 0.018 min
Lab File: VY022412.D
Acq: 23 May 2025 17:37

Tgt Ion: 43 Resp: 228
Ion Ratio Lower Upper
43 100
58 0.0 23.6 35.4#

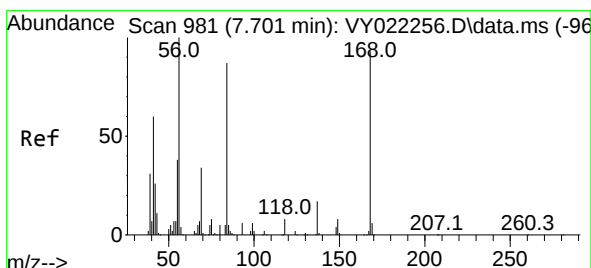
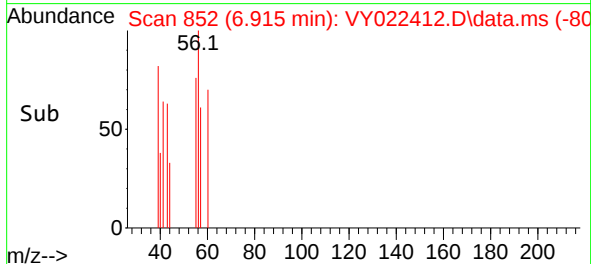
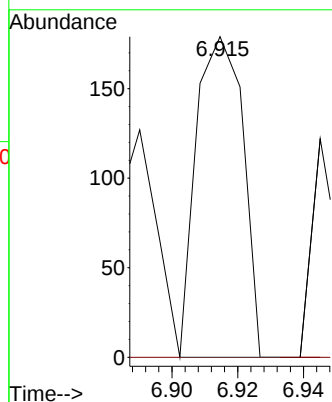
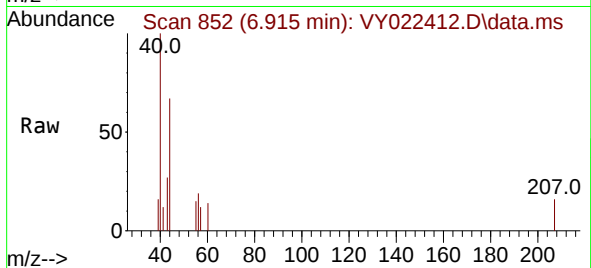




#25
2-Butanone
Concen: 1.564 ug/l
RT: 6.915 min Scan# 81
Delta R.T. 0.018 min
Lab File: VY022412.D
Acq: 23 May 2025 17:37

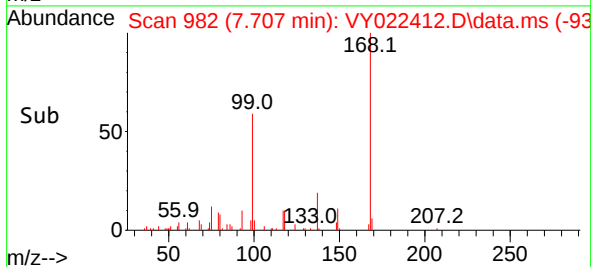
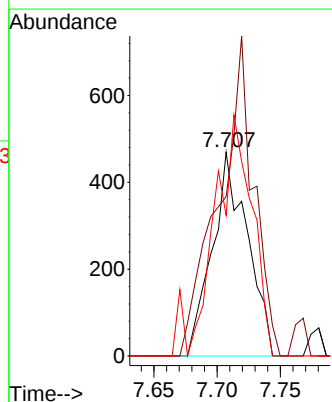
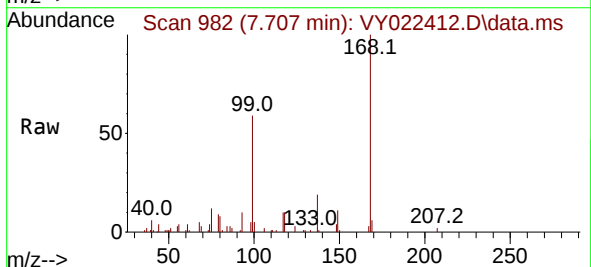
Instrument :
MSVOA_Y
ClientSampleId :
EO-03-05222025RE

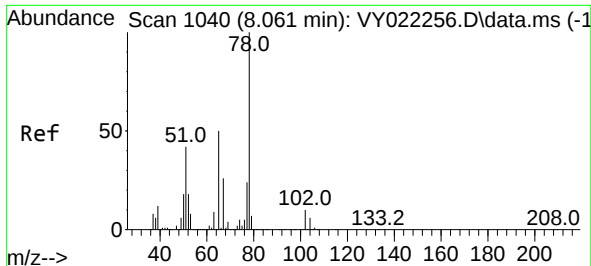
Tgt Ion: 43 Resp: 177
Ion Ratio Lower Upper
43 100
72 0.0 22.1 33.1#



#31
Cyclohexane
Concen: 1.241 ug/l
RT: 7.707 min Scan# 982
Delta R.T. 0.006 min
Lab File: VY022412.D
Acq: 23 May 2025 17:37

Tgt Ion: 56 Resp: 906
Ion Ratio Lower Upper
56 100
69 78.3 27.4 41.2#
84 69.1 70.0 105.0#





#33

1,2-Dichloroethane-d4

Concen: 41.977 ug/l

RT: 8.061 min Scan# 110

Delta R.T. -0.000 min

Lab File: VY022412.D

Acq: 23 May 2025 17:37

Instrument :

MSVOA_Y

ClientSampleId :

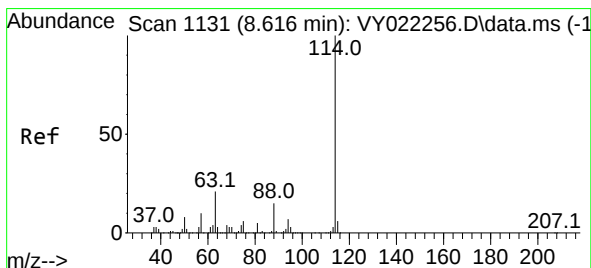
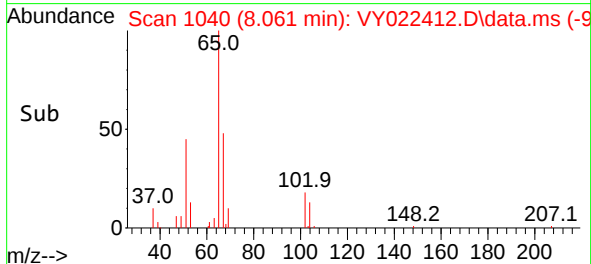
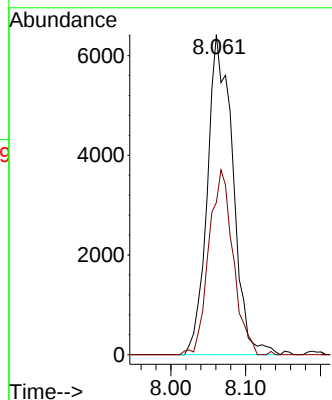
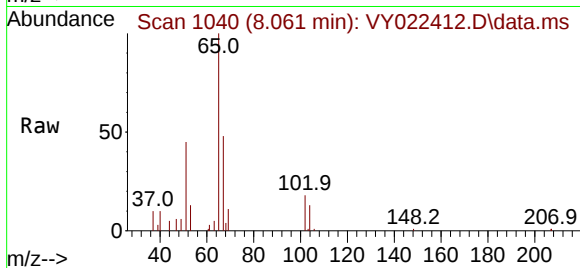
EO-03-05222025RE

Tgt Ion: 65 Resp: 15145

Ion Ratio Lower Upper

65 100

67 54.9 0.0 104.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.622 min Scan# 1132

Delta R.T. 0.006 min

Lab File: VY022412.D

Acq: 23 May 2025 17:37

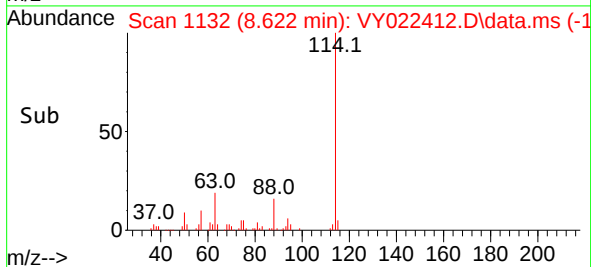
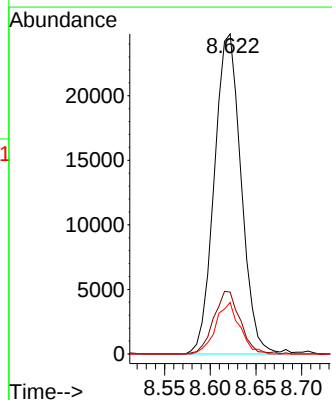
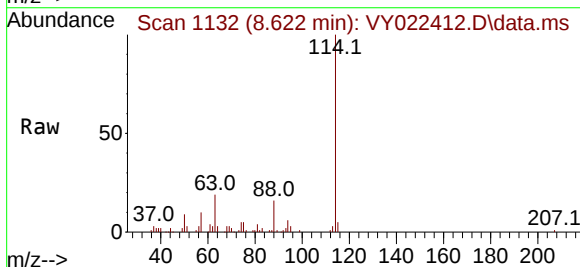
Tgt Ion: 114 Resp: 50569

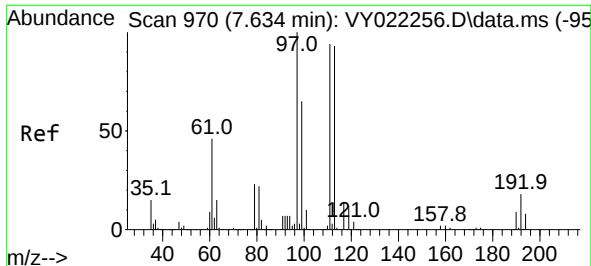
Ion Ratio Lower Upper

114 100

63 19.4 0.0 41.0

88 16.1 0.0 29.4

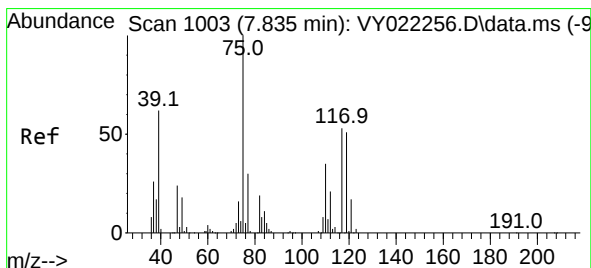
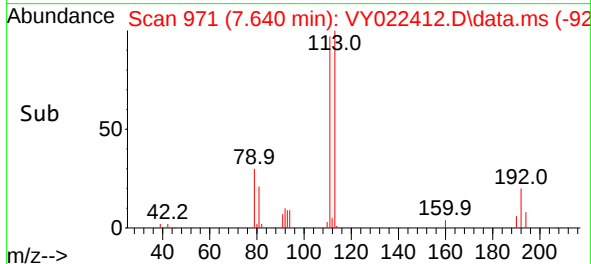
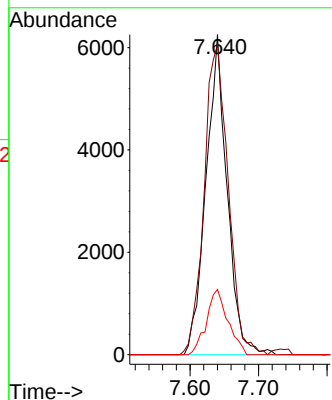
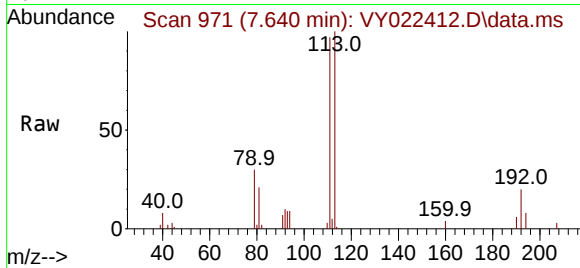




#35
Dibromofluoromethane
Concen: 44.440 ug/l
RT: 7.640 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY022412.D
Acq: 23 May 2025 17:37

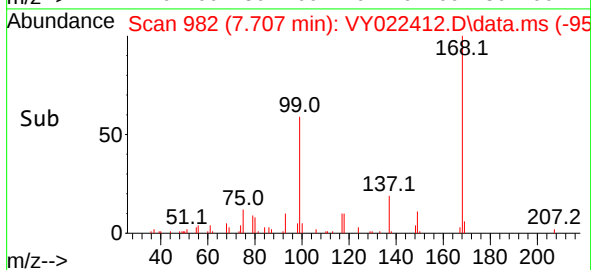
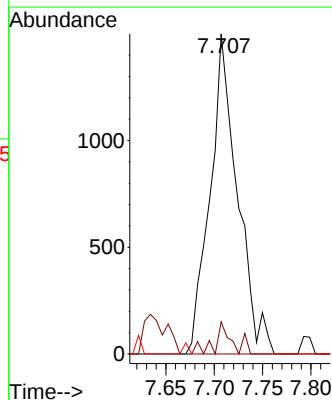
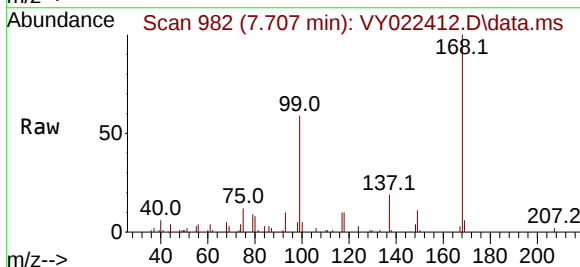
Instrument :
MSVOA_Y
ClientSampleId :
EO-03-05222025RE

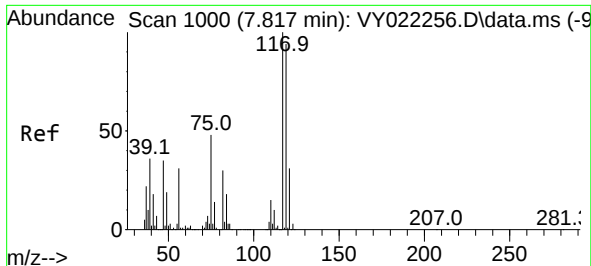
Tgt Ion:113 Resp: 13413
Ion Ratio Lower Upper
113 100
111 110.2 82.6 123.8
192 20.7 15.2 22.8



#36
1,1-Dichloropropene
Concen: 5.940 ug/l
RT: 7.707 min Scan# 982
Delta R.T. -0.128 min
Lab File: VY022412.D
Acq: 23 May 2025 17:37

Tgt Ion: 75 Resp: 2953
Ion Ratio Lower Upper
75 100
110 4.4 16.6 49.8#
77 0.0 24.6 37.0#

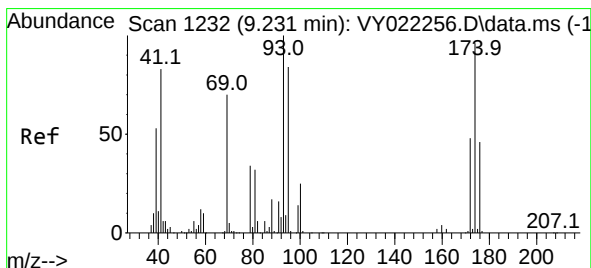
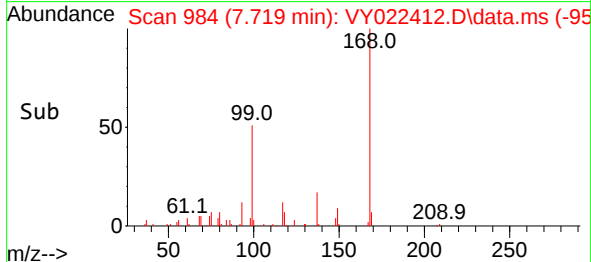
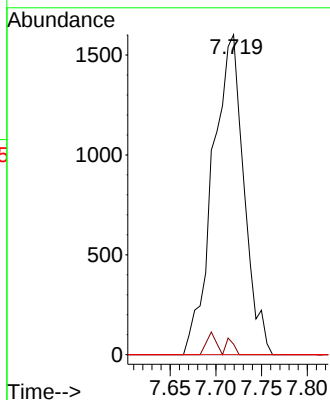
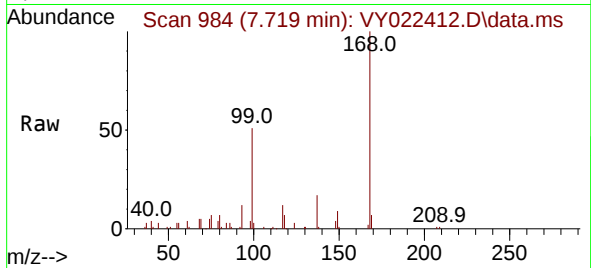




#38
Carbon Tetrachloride
Concen: 7.390 ug/l
RT: 7.719 min Scan# 91
Delta R.T. -0.098 min
Lab File: VY022412.D
Acq: 23 May 2025 17:37

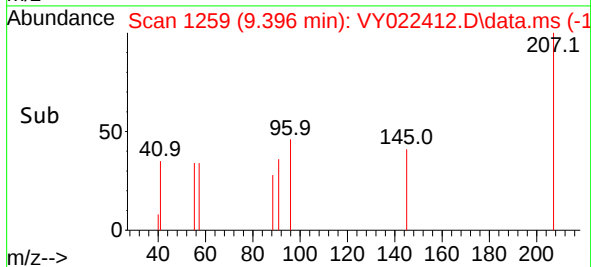
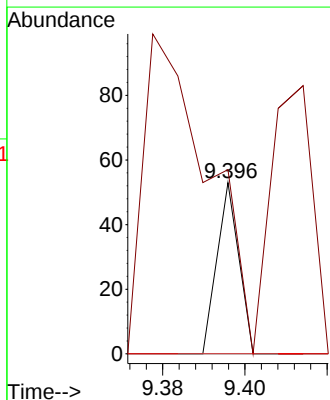
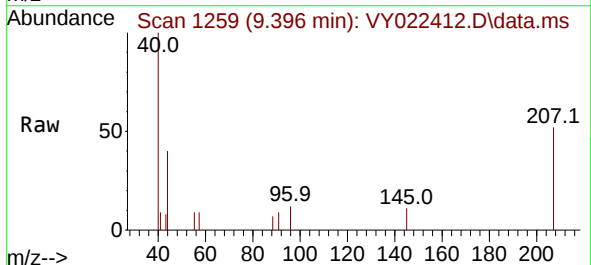
Instrument :
MSVOA_Y
ClientSampleId :
EO-03-05222025RE

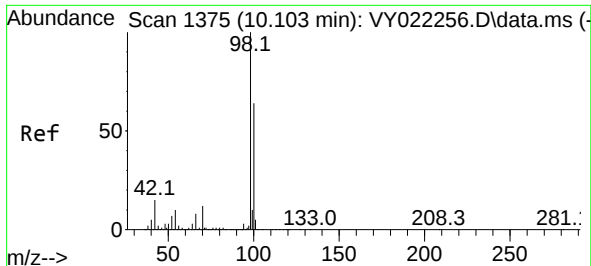
Tgt Ion:117 Resp: 3803
Ion Ratio Lower Upper
117 100
119 3.3 75.3 112.9#
121 0.0 24.7 37.1#



#49
1,4-Dioxane
Concen: 8.776 ug/l
RT: 9.396 min Scan# 1259
Delta R.T. 0.165 min
Lab File: VY022412.D
Acq: 23 May 2025 17:37

Tgt Ion: 88 Resp: 19
Ion Ratio Lower Upper
88 100
43 568.4 28.5 42.7#
58 0.0 61.4 92.2#

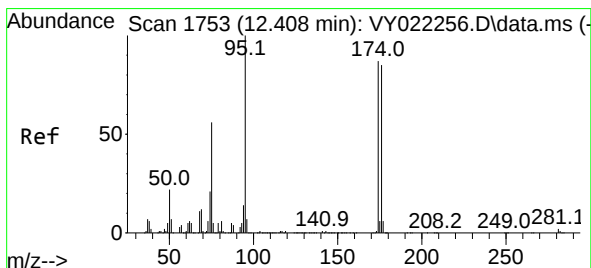
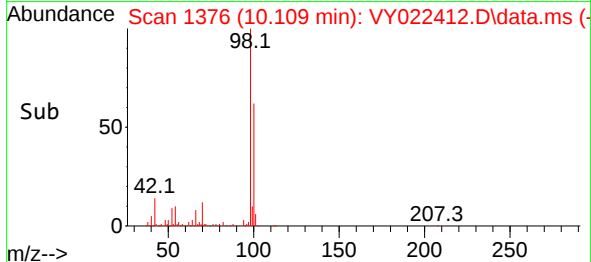
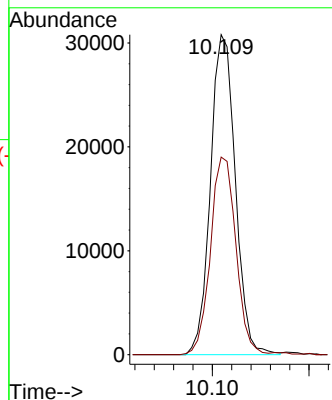
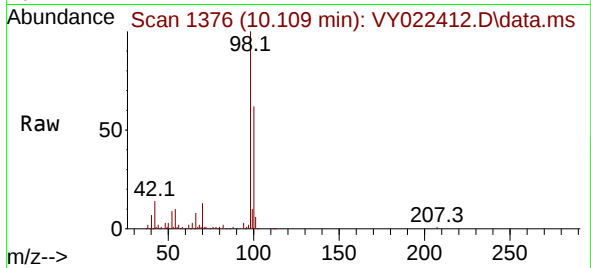




#50
Toluene-d8
Concen: 44.526 ug/l
RT: 10.109 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY022412.D
Acq: 23 May 2025 17:37

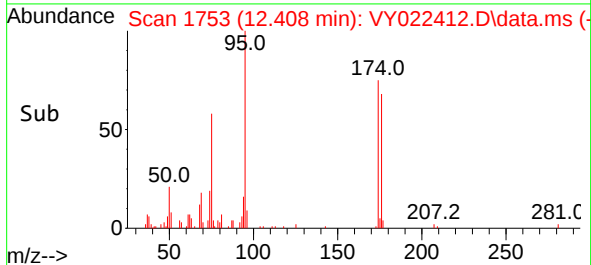
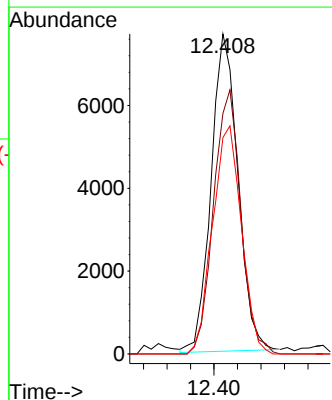
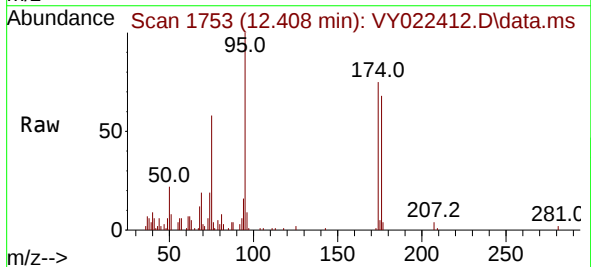
Instrument :
MSVOA_Y
ClientSampleId :
EO-03-05222025RE

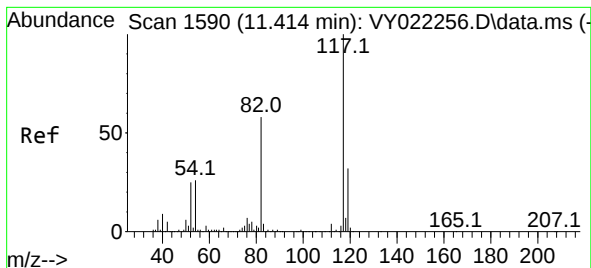
Tgt Ion: 98 Resp: 55041
Ion Ratio Lower Upper
98 100
100 63.1 51.8 77.8



#62
4-Bromofluorobenzene
Concen: 31.015 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. -0.000 min
Lab File: VY022412.D
Acq: 23 May 2025 17:37

Tgt Ion: 95 Resp: 12152
Ion Ratio Lower Upper
95 100
174 84.6 0.0 166.8
176 77.5 0.0 160.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY022412.D

Acq: 23 May 2025 17:37

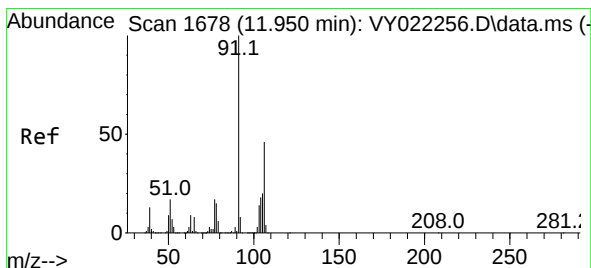
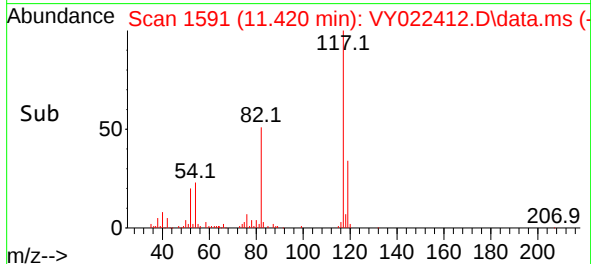
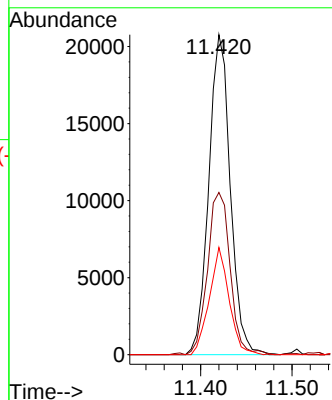
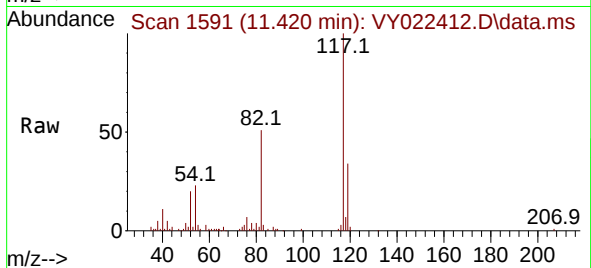
Instrument :

MSVOA_Y

ClientSampleId :

EO-03-05222025RE

Tgt Ion:	117	Resp:	34028
Ion	Ratio	Lower	Upper
117	100		
82	50.7	46.6	70.0
119	33.5	25.8	38.6



#69

o-Xylene

Concen: 1.352 ug/l

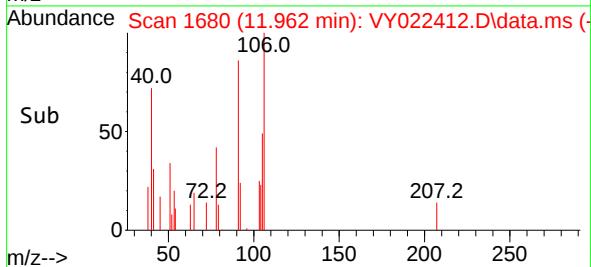
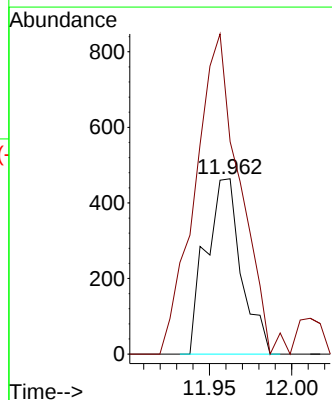
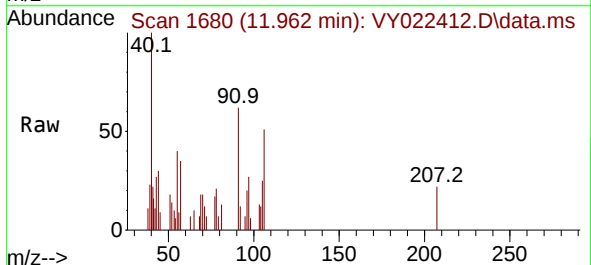
RT: 11.962 min Scan# 1680

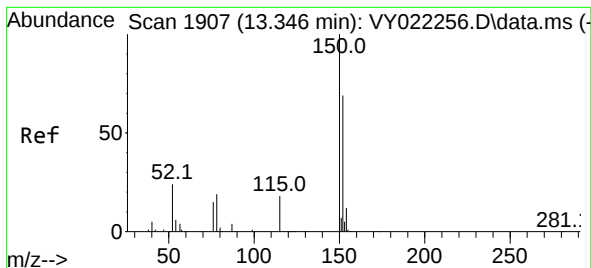
Delta R.T. 0.012 min

Lab File: VY022412.D

Acq: 23 May 2025 17:37

Tgt Ion:	106	Resp:	693
Ion	Ratio	Lower	Upper
106	100		
91	231.7	108.3	324.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.352 min Scan# 1908

Delta R.T. 0.006 min

Lab File: VY022412.D

Acq: 23 May 2025 17:37

Instrument :

MSVOA_Y

ClientSampleId :

EO-03-05222025RE

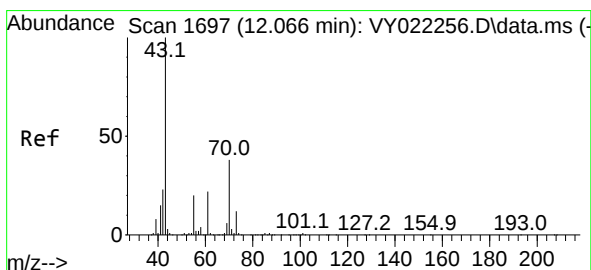
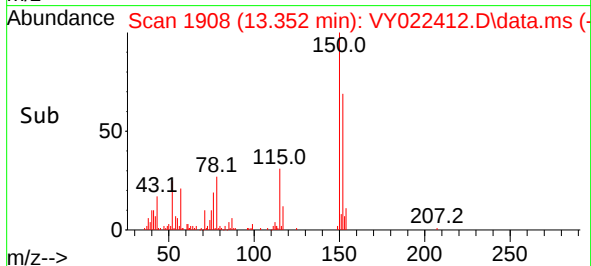
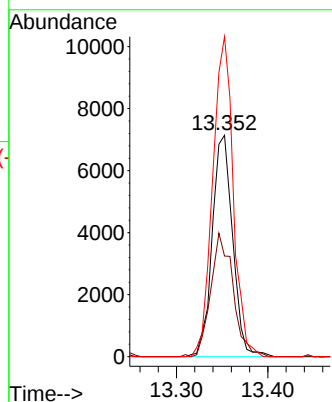
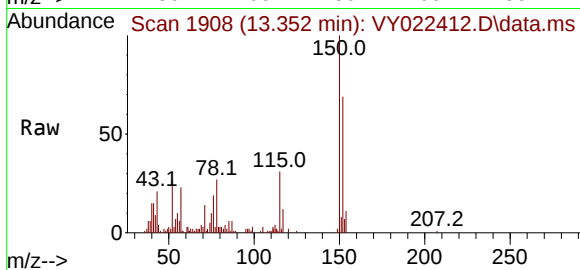
Tgt Ion:152 Resp: 11120

Ion Ratio Lower Upper

152 100

115 60.8 29.4 88.2

150 144.6 0.0 353.8



#74

N-ethyl acetate

Concen: 5.761 ug/l

RT: 12.054 min Scan# 1695

Delta R.T. -0.012 min

Lab File: VY022412.D

Acq: 23 May 2025 17:37

Tgt Ion: 43 Resp: 1518

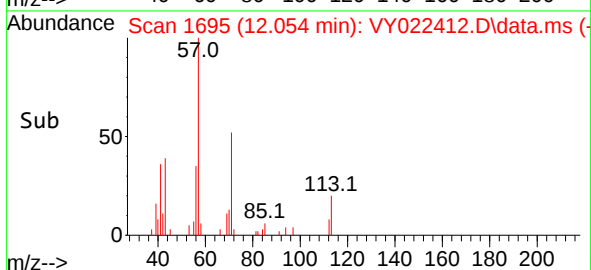
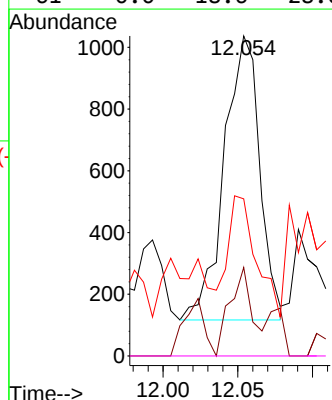
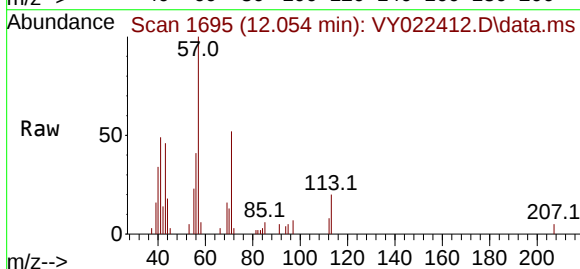
Ion Ratio Lower Upper

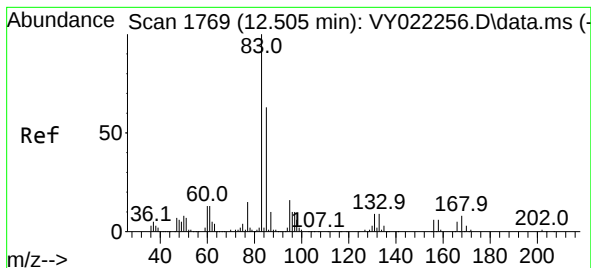
43 100

70 19.9 31.4 47.0#

55 33.5 17.0 25.6#

61 0.0 18.6 28.0#





#75

1,1,2,2-Tetrachloroethane

Concen: 1.546 ug/l

RT: 12.493 min Scan# 1767

Delta R.T. -0.012 min

Lab File: VY022412.D

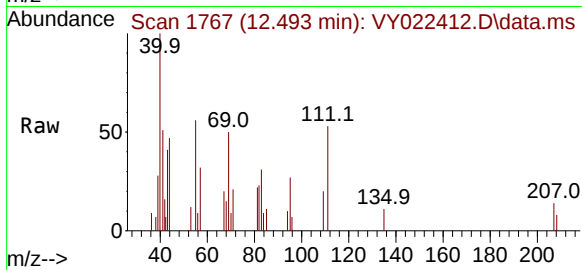
Acq: 23 May 2025 17:37

Instrument :

MSVOA_Y

ClientSampleId :

EO-03-05222025RE



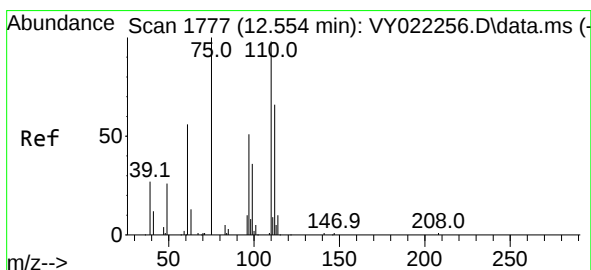
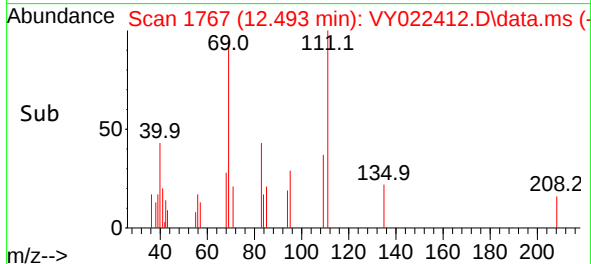
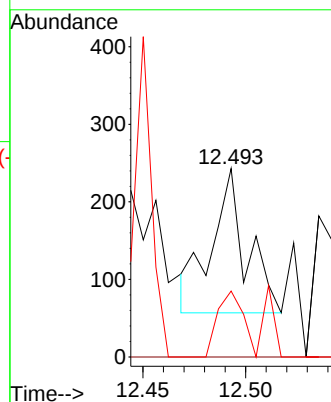
Tgt Ion: 83 Resp: 219

Ion Ratio Lower Upper

83 100

131 0.0 4.9 14.7#

85 0.0 32.0 96.0#



#76

1,2,3-Trichloropropane

Concen: 56.659 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. -0.146 min

Lab File: VY022412.D

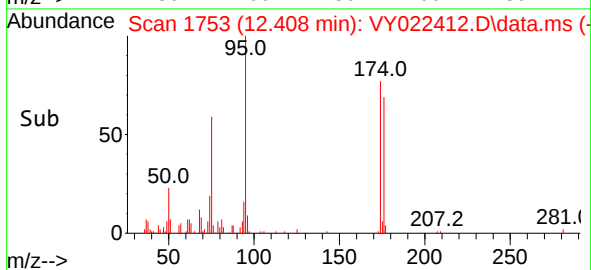
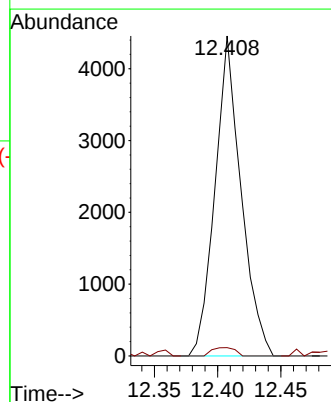
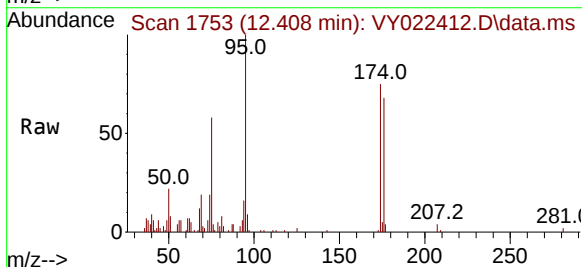
Acq: 23 May 2025 17:37

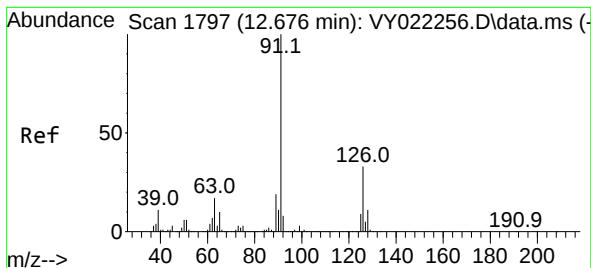
Tgt Ion: 75 Resp: 6383

Ion Ratio Lower Upper

75 100

77 2.3 0.0 0.0#

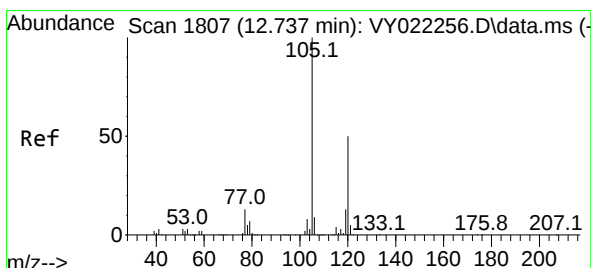
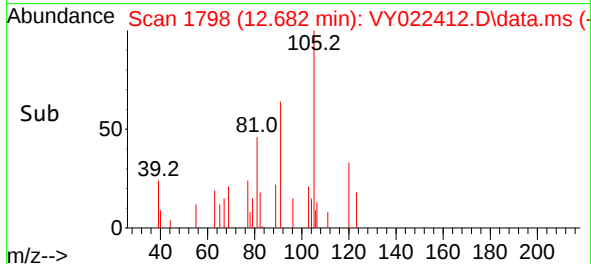
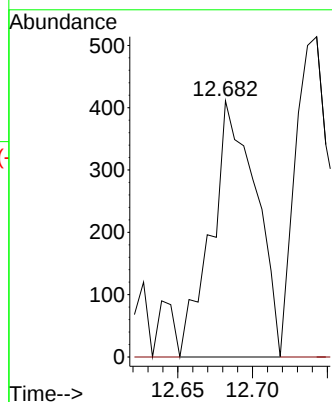
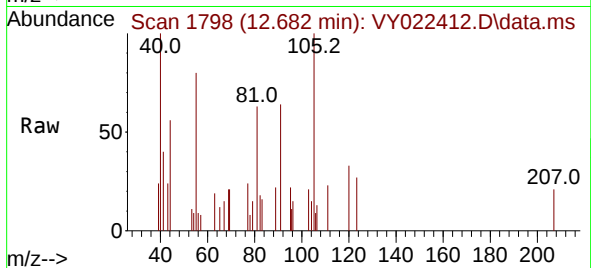




#79
2-Chlorotoluene
Concen: 1.394 ug/l
RT: 12.682 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY022412.D
Acq: 23 May 2025 17:37

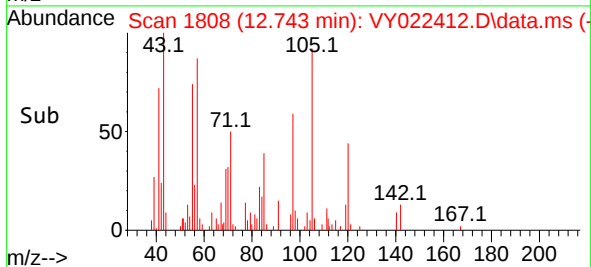
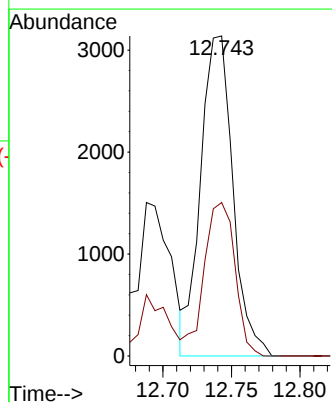
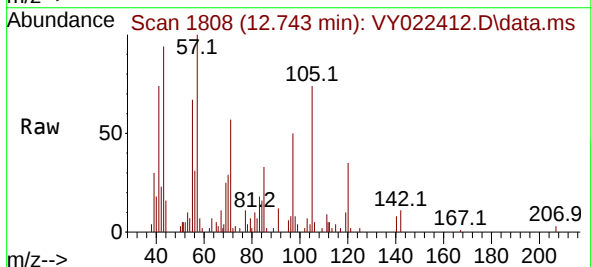
Instrument :
MSVOA_Y
ClientSampleId :
EO-03-05222025RE

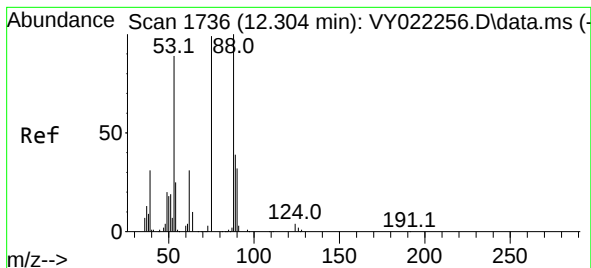
Tgt Ion: 91 Resp: 851
Ion Ratio Lower Upper
91 100
126 0.0 16.8 50.4#



#80
1,3,5-Trimethylbenzene
Concen: 6.902 ug/l
RT: 12.743 min Scan# 1808
Delta R.T. 0.006 min
Lab File: VY022412.D
Acq: 23 May 2025 17:37

Tgt Ion: 105 Resp: 5133
Ion Ratio Lower Upper
105 100
120 46.0 24.2 72.6

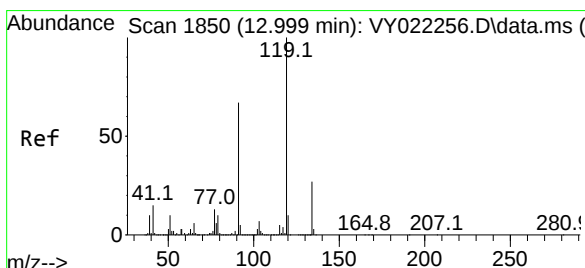
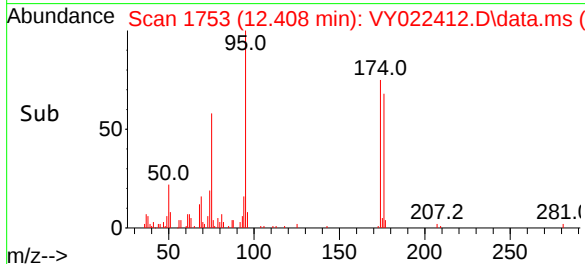
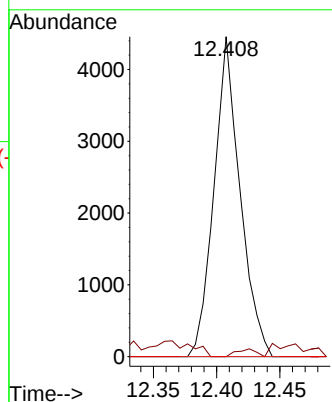
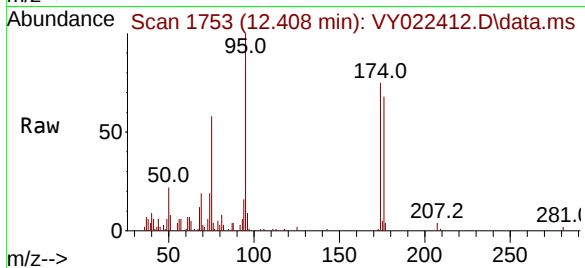




#81
 trans-1,4-Dichloro-2-butene
 Concen: 114.776 ug/l
 RT: 12.408 min Scan# 11
 Delta R.T. 0.104 min
 Lab File: VY022412.D
 Acq: 23 May 2025 17:37

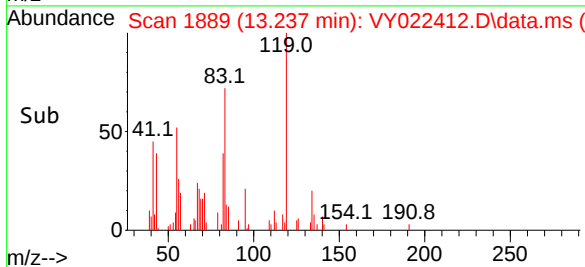
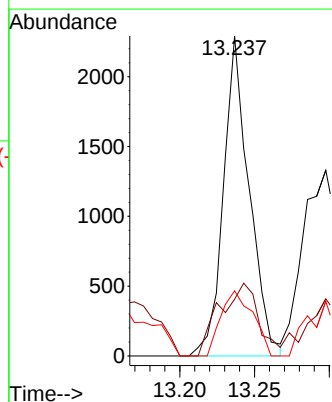
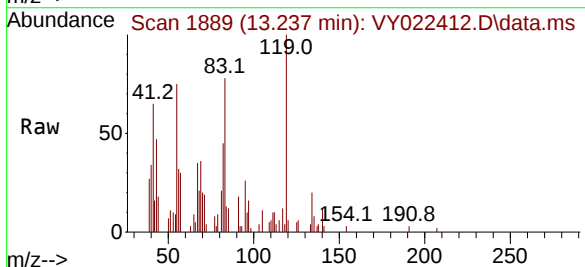
Instrument :
 MSVOA_Y
 ClientSampleId :
 EO-03-05222025RE

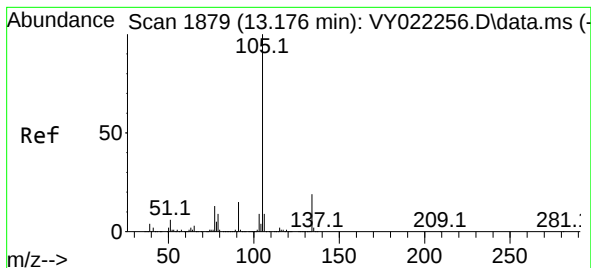
Tgt Ion: 75 Resp: 6383
 Ion Ratio Lower Upper
 75 100
 53 1.8 75.8 113.8#
 89 0.0 36.2 54.2#



#83
 tert-Butylbenzene
 Concen: 4.162 ug/l
 RT: 13.237 min Scan# 1889
 Delta R.T. 0.238 min
 Lab File: VY022412.D
 Acq: 23 May 2025 17:37

Tgt Ion: 119 Resp: 2751
 Ion Ratio Lower Upper
 119 100
 91 34.4 32.8 98.3
 134 25.2 12.9 38.6





#85

sec-Butylbenzene

Concen: 1.759 ug/l

RT: 13.176 min Scan# 1879

Delta R.T. -0.000 min

Lab File: VY022412.D

Acq: 23 May 2025 17:37

Instrument :

MSVOA_Y

ClientSampleId :

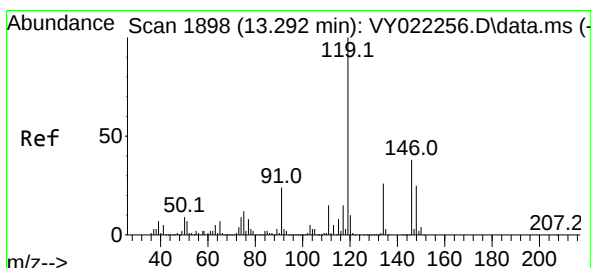
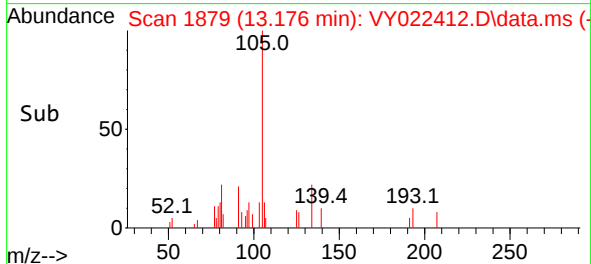
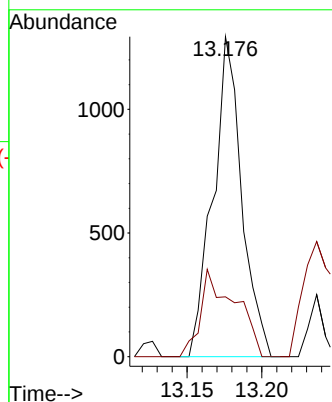
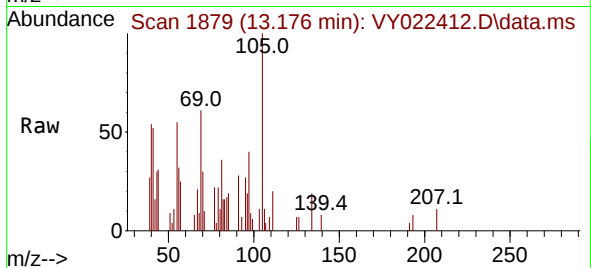
EO-03-05222025RE

Tgt Ion:105 Resp: 1726

Ion Ratio Lower Upper

105 100

134 32.8 9.8 29.5#



#86

p-Isopropyltoluene

Concen: 2.664 ug/l

RT: 13.298 min Scan# 1899

Delta R.T. 0.006 min

Lab File: VY022412.D

Acq: 23 May 2025 17:37

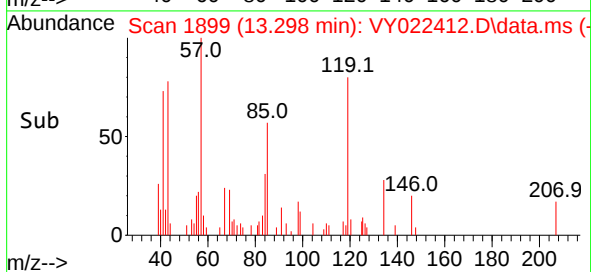
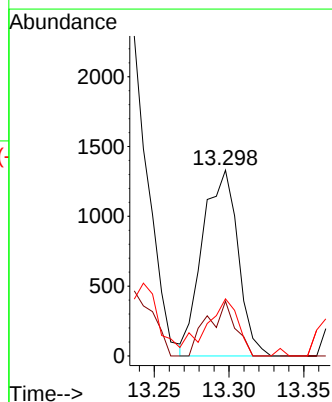
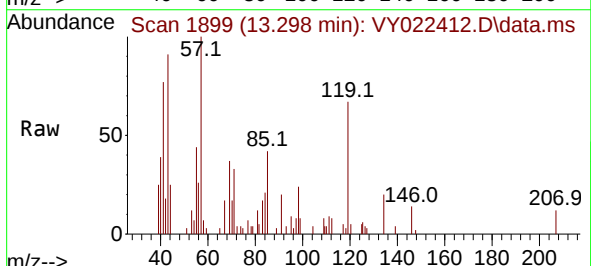
Tgt Ion:119 Resp: 2198

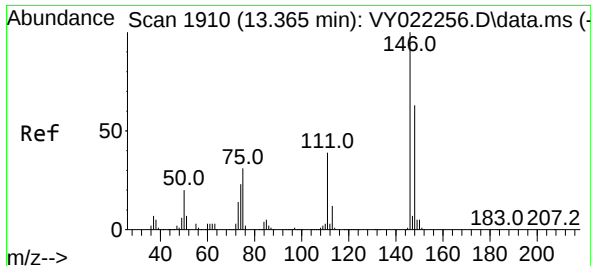
Ion Ratio Lower Upper

119 100

134 23.6 12.9 38.6

91 27.5 12.1 36.3

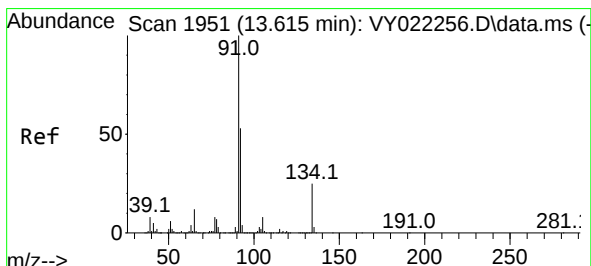
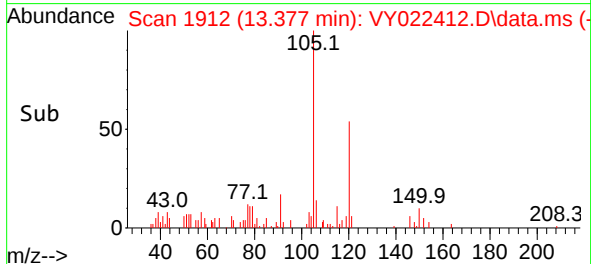
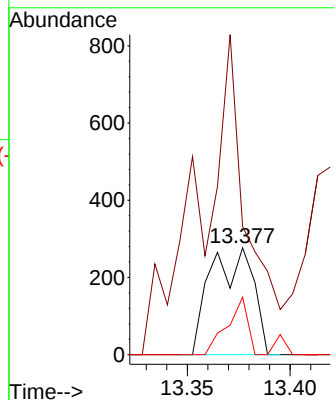
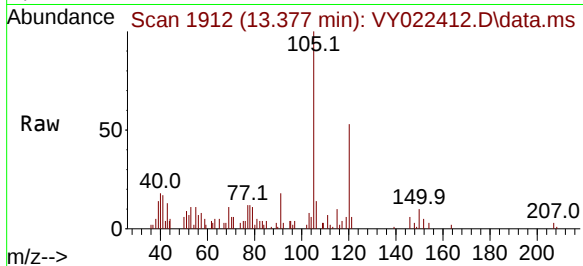




#88
1,4-Dichlorobenzene
Concen: 1.030 ug/l
RT: 13.377 min Scan# 1910
Delta R.T. 0.012 min
Lab File: VY022412.D
Acq: 23 May 2025 17:37

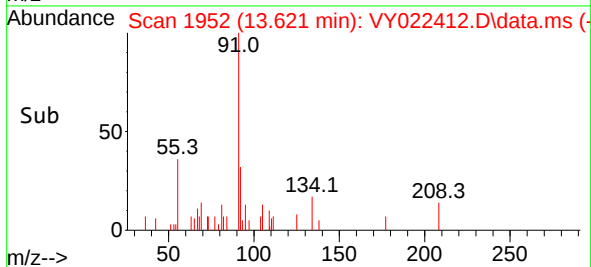
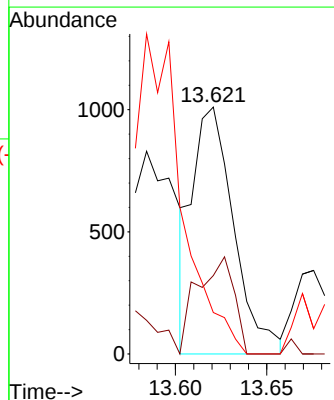
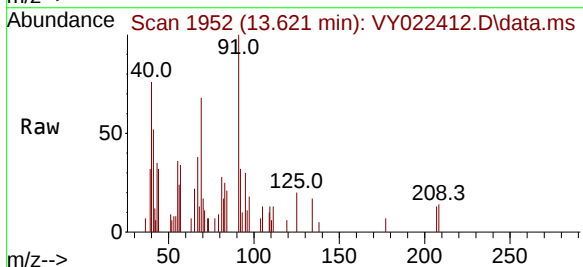
Instrument :
MSVOA_Y
ClientSampleId :
EO-03-05222025RE

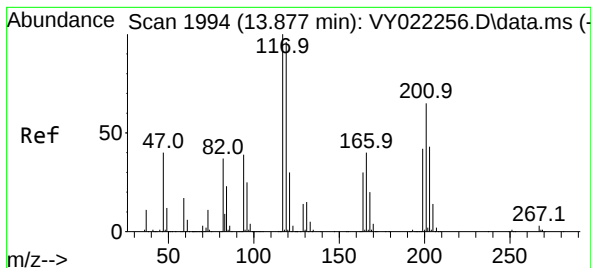
Tgt Ion:146 Resp: 398
Ion Ratio Lower Upper
146 100
111 333.2 20.0 59.9#
148 25.9 32.1 96.5#



#89
n-Butylbenzene
Concen: 2.025 ug/l
RT: 13.621 min Scan# 1952
Delta R.T. 0.006 min
Lab File: VY022412.D
Acq: 23 May 2025 17:37

Tgt Ion: 91 Resp: 1581
Ion Ratio Lower Upper
91 100
92 35.3 26.3 78.9
134 0.0 12.4 37.4#





#90

Hexachloroethane

Concen: 3.170 ug/l

RT: 13.895 min Scan# 1997

Delta R.T. 0.018 min

Lab File: VY022412.D

Acq: 23 May 2025 17:37

Instrument :

MSVOA_Y

ClientSampleId :

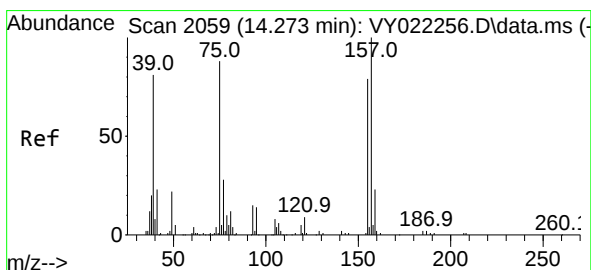
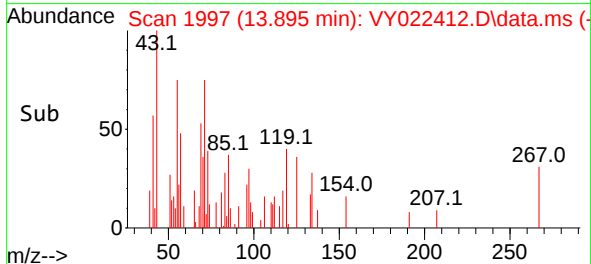
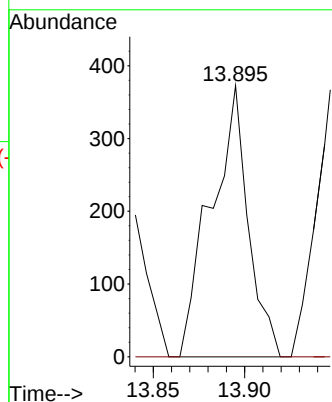
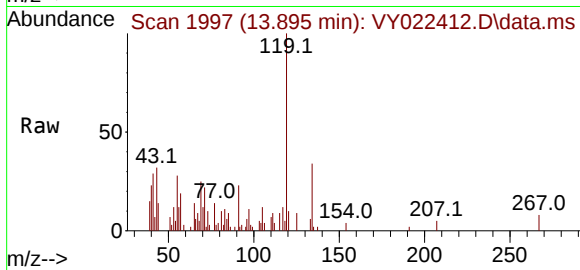
EO-03-05222025RE

Tgt Ion:117 Resp: 528

Ion Ratio Lower Upper

117 100

201 0.0 35.2 105.6#



#92

1,2-Dibromo-3-Chloropropane

Concen: 2.933 ug/l

RT: 14.236 min Scan# 2053

Delta R.T. -0.037 min

Lab File: VY022412.D

Acq: 23 May 2025 17:37

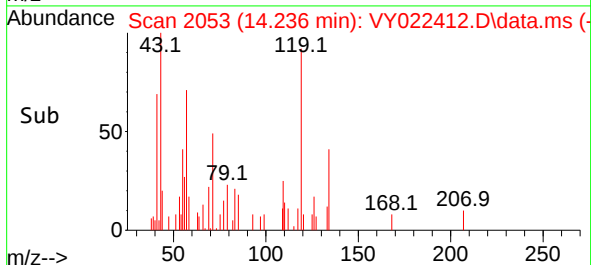
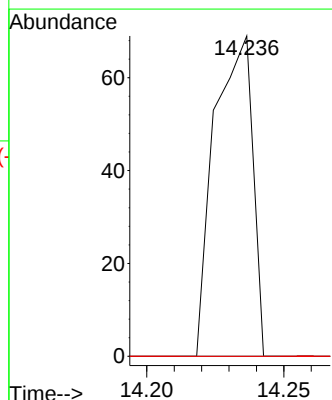
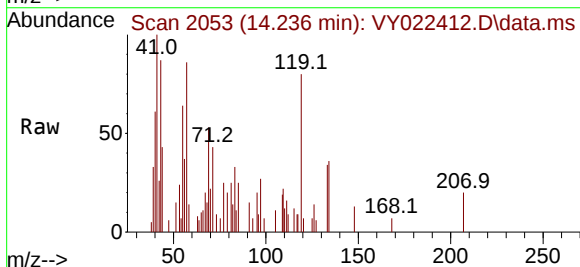
Tgt Ion: 75 Resp: 67

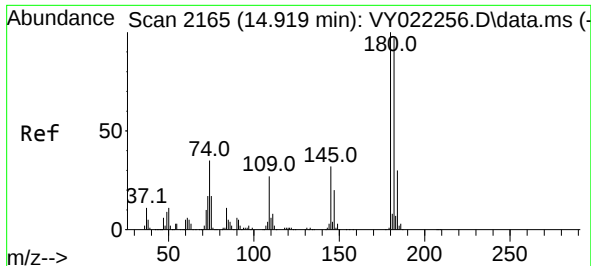
Ion Ratio Lower Upper

75 100

155 0.0 43.4 130.1#

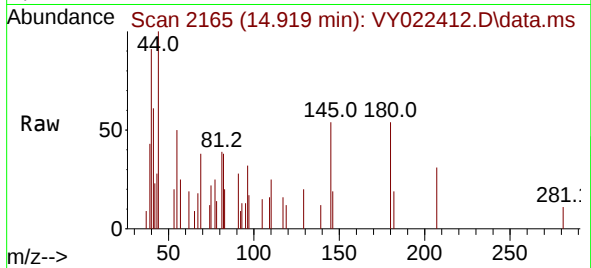
157 0.0 54.6 163.9#



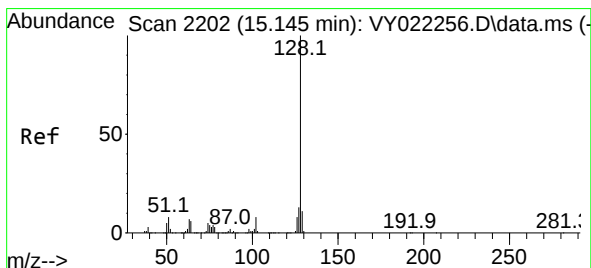
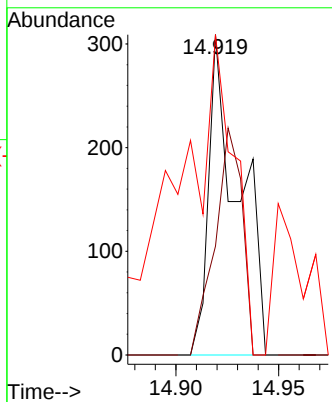
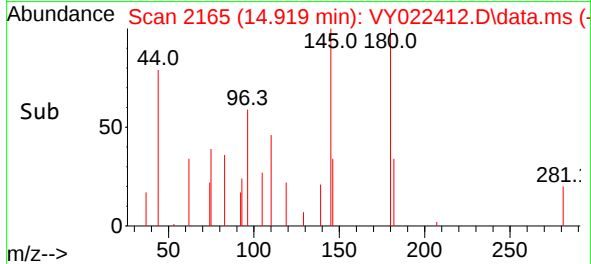


#93
1,2,4-Trichlorobenzene
Concen: 1.586 ug/l
RT: 14.919 min Scan# 2165
Delta R.T. -0.000 min
Lab File: VY022412.D
Acq: 23 May 2025 17:37

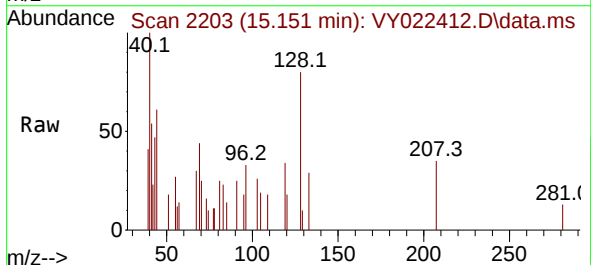
Instrument :
MSVOA_Y
ClientSampleId :
EO-03-05222025RE



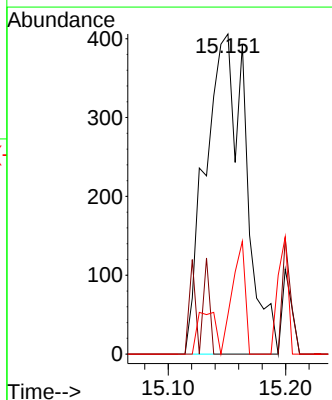
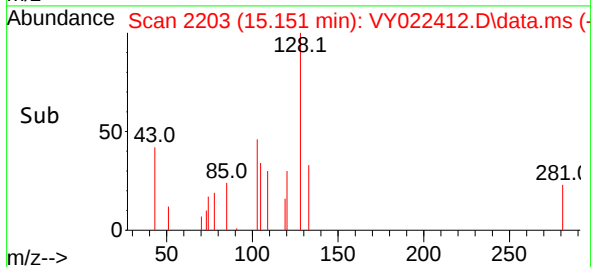
Tgt Ion:180 Resp: 309
Ion Ratio Lower Upper
180 100
182 65.4 48.0 144.0
145 209.1 15.0 45.1#

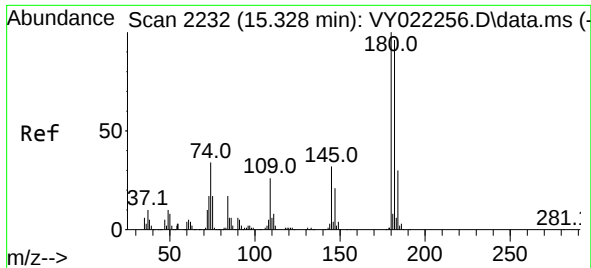


#95
Naphthalene
Concen: 2.609 ug/l
RT: 15.151 min Scan# 2203
Delta R.T. 0.006 min
Lab File: VY022412.D
Acq: 23 May 2025 17:37



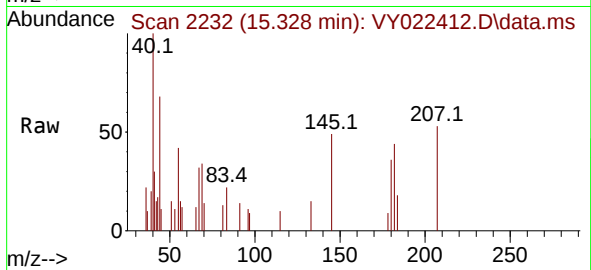
Tgt Ion:128 Resp: 965
Ion Ratio Lower Upper
128 100
127 0.0 10.2 15.2#
129 11.3 8.8 13.2





#96
 1,2,3-Trichlorobenzene
 Concen: 1.434 ug/l
 RT: 15.328 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VY022412.D
 Acq: 23 May 2025 17:37

Instrument :
 MSVOA_Y
 ClientSampleId :
 EO-03-05222025RE



Tgt Ion:	180	Resp:	237
Ion	Ratio	Lower	Upper
180	100		
182	84.8	47.1	141.3
145	145.6	15.9	47.6#

