

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
 Data File : VY021031.D
 Acq On : 03 Feb 2025 15:50
 Operator : SY/MD
 Sample : Q1239-10
 Misc : 5.06g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 357

Quant Time: Feb 04 00:56:31 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
 Quant Title : SW846 8260
 QLast Update : Mon Feb 03 13:08:38 2025
 Response via : Initial Calibration

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

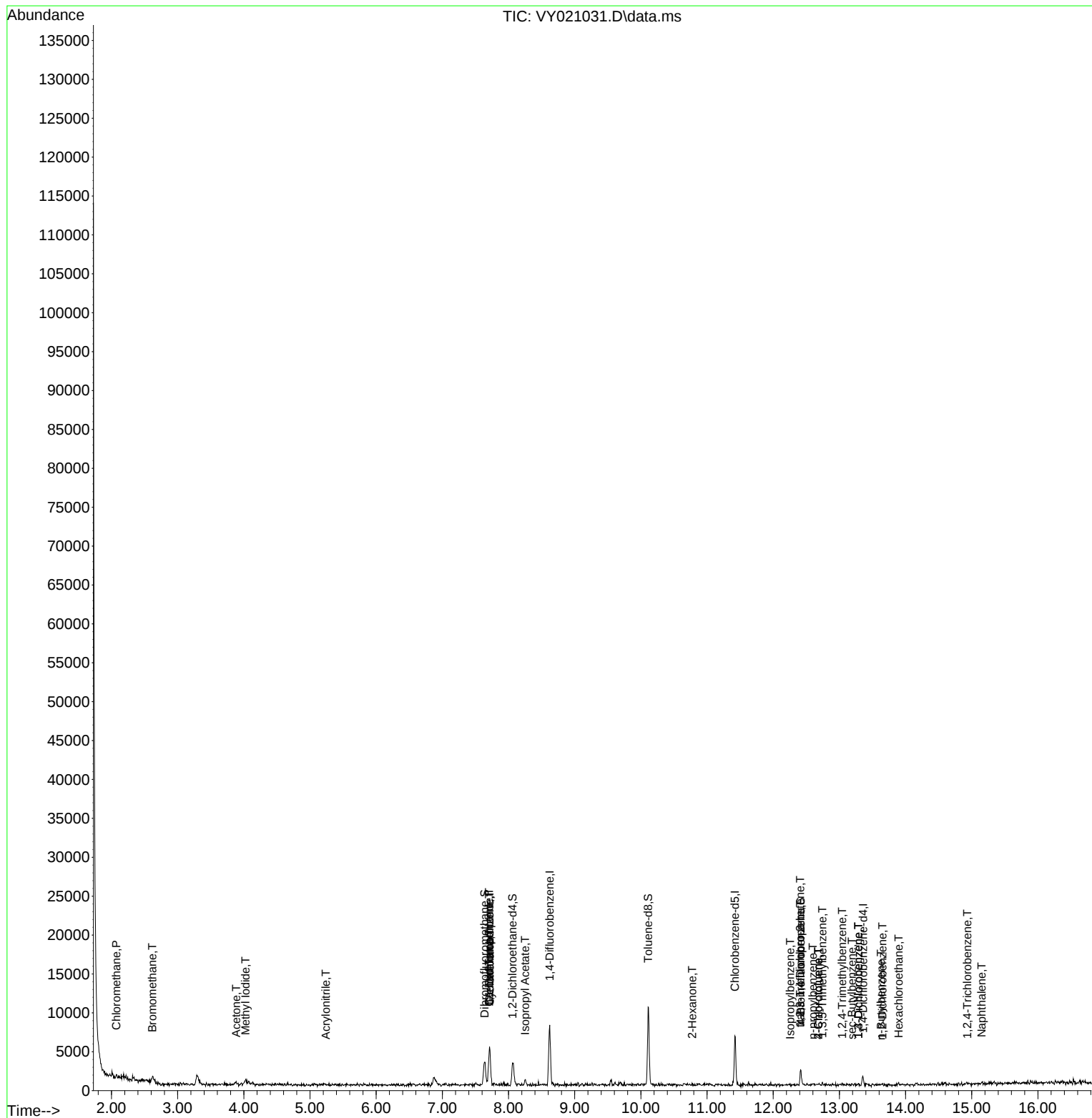
Internal Standards						
1) Pentafluorobenzene	7.713	168	4138	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.622	114	6912	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	3829	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.359	152	420	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	2606	61.466	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 122.940%	
35) Dibromofluoromethane	7.640	113	2495	56.325	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 112.640%	
50) Toluene-d8	10.109	98	7177	42.558	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 85.120%	
62) 4-Bromofluorobenzene	12.414	95	749	13.595	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 27.180%#	
Target Compounds						
					Qvalue	
3) Chloromethane	2.074	50	340	9.342	ug/l #	79
5) Bromomethane	2.617	94	482	21.289	ug/l	92
10) Methyl Iodide	4.025	142	1225	26.326	ug/l #	77
15) Acrylonitrile	5.238	53	23	2.651	ug/l #	18
16) Acetone	3.885	43	209	31.610	ug/l #	59
31) Cyclohexane	7.719	56	78	1.079	ug/l #	15
36) 1,1-Dichloropropene	7.707	75	403	6.142	ug/l #	42
38) Carbon Tetrachloride	7.707	117	383	4.996	ug/l #	12
43) Isopropyl Acetate	8.250	43	59	1.032	ug/l #	51
59) 2-Hexanone	10.774	43	48	2.592	ug/l #	23
73) Isopropylbenzene	12.255	105	59	1.798	ug/l #	49
76) 1,2,3-Trichloropropane	12.407	75	323	84.779	ug/l #	100
78) n-propylbenzene	12.596	91	109	2.789	ug/l #	54
79) 2-Chlorotoluene	12.682	91	116	5.182	ug/l #	41
80) 1,3,5-Trimethylbenzene	12.743	105	80	3.008	ug/l #	29
81) trans-1,4-Dichloro-2-b...	12.407	75	323	172.989	ug/l #	12
82) 4-Chlorotoluene	12.682	91	116	5.086	ug/l #	41
84) 1,2,4-Trimethylbenzene	13.042	105	135	5.191	ug/l #	32
85) sec-Butylbenzene	13.188	105	67	1.925	ug/l #	57
87) 1,3-Dichlorobenzene	13.285	146	68	4.652	ug/l #	25
88) 1,4-Dichlorobenzene	13.285	146	68	4.724	ug/l #	25
89) n-Butylbenzene	13.627	91	29	1.100	ug/l #	33
90) Hexachloroethane	13.895	117	19	3.150	ug/l #	17
91) 1,2-Dichlorobenzene	13.651	146	73	5.753	ug/l #	25
93) 1,2,4-Trichlorobenzene	14.931	180	111	15.717	ug/l #	74
95) Naphthalene	15.151	128	306	27.082	ug/l #	69

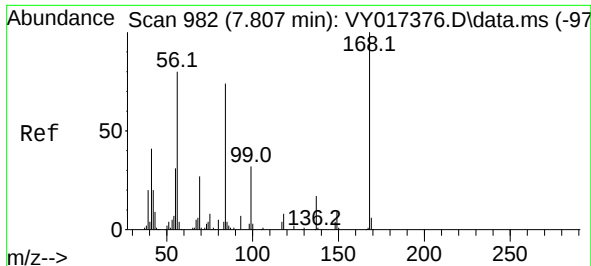
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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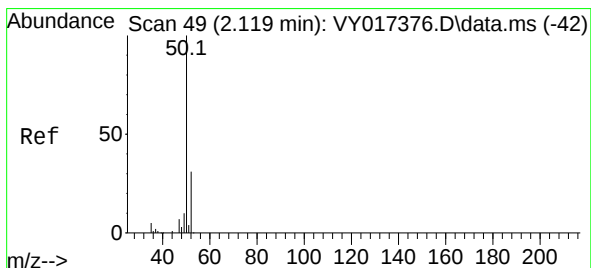
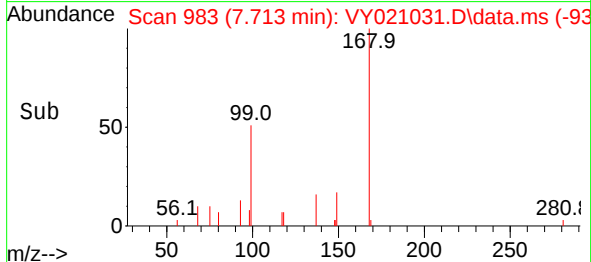
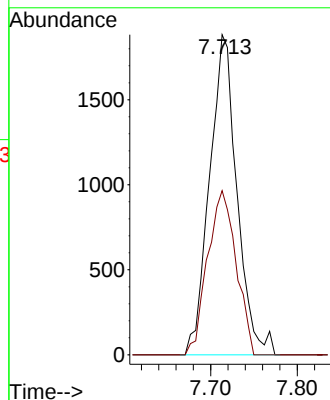
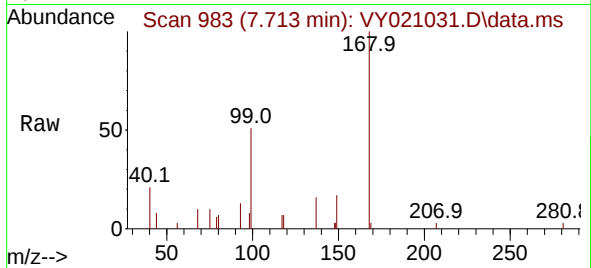




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY021031.D
Acq: 03 Feb 2025 15:50

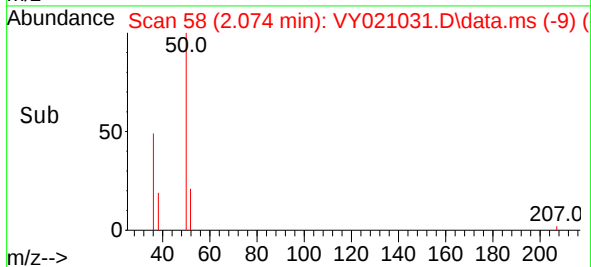
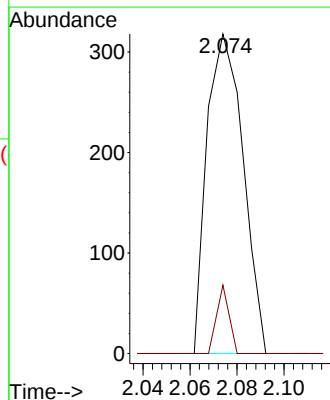
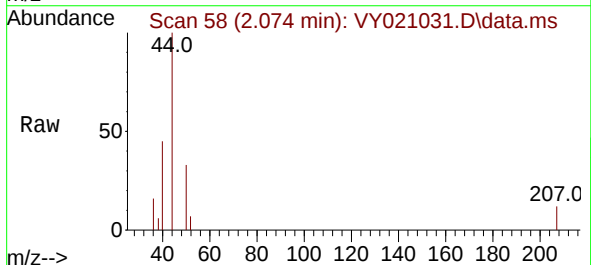
Instrument :
MSVOA_Y
ClientSampleId :
357

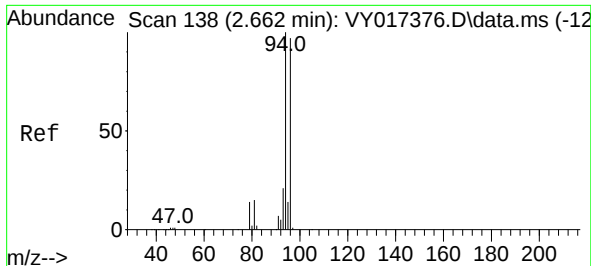
Tgt Ion:168 Resp: 4138
Ion Ratio Lower Upper
168 100
99 51.2 44.2 66.4



#3
Chloromethane
Concen: 9.342 ug/l
RT: 2.074 min Scan# 58
Delta R.T. -0.000 min
Lab File: VY021031.D
Acq: 03 Feb 2025 15:50

Tgt Ion: 50 Resp: 340
Ion Ratio Lower Upper
50 100
52 21.4 26.7 40.1#

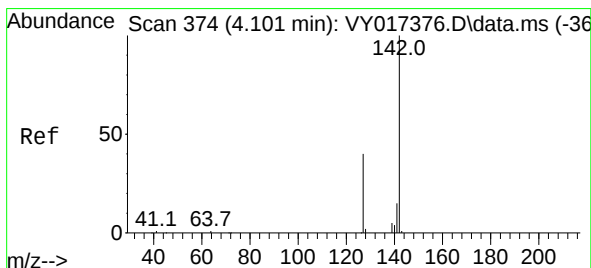
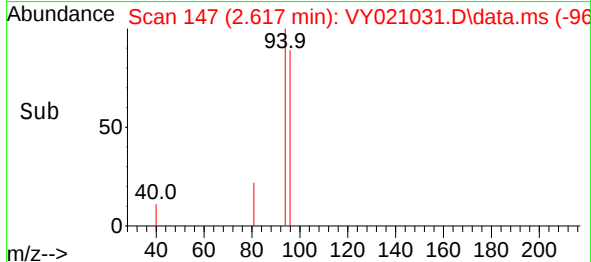
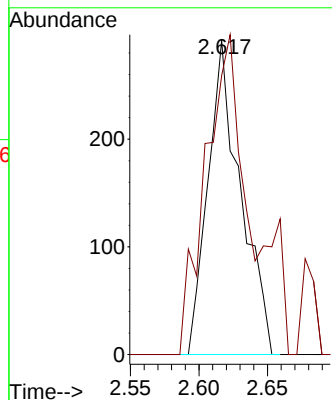
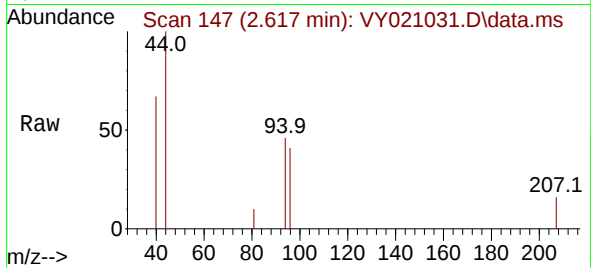




#5
Bromomethane
Concen: 21.289 ug/l
RT: 2.617 min Scan# 147
Delta R.T. 0.012 min
Lab File: VY021031.D
Acq: 03 Feb 2025 15:50

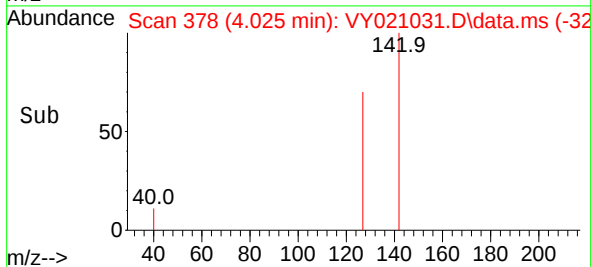
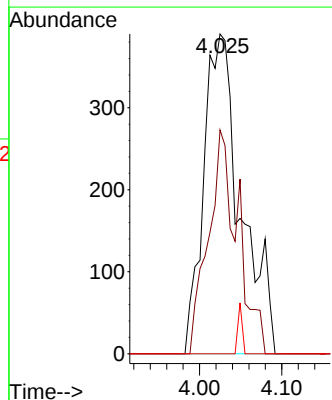
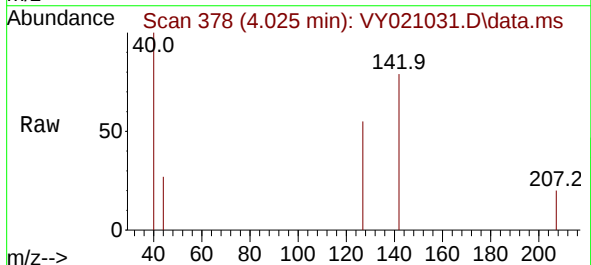
Instrument :
MSVOA_Y
ClientSampleId :
357

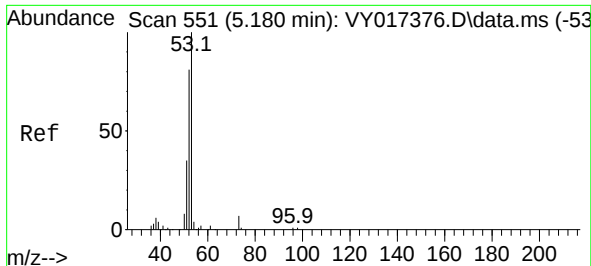
Tgt Ion: 94 Resp: 482
Ion Ratio Lower Upper
94 100
96 88.7 77.3 115.9



#10
Methyl Iodide
Concen: 26.326 ug/l
RT: 4.025 min Scan# 378
Delta R.T. 0.012 min
Lab File: VY021031.D
Acq: 03 Feb 2025 15:50

Tgt Ion:142 Resp: 1225
Ion Ratio Lower Upper
142 100
127 55.7 35.1 52.7#
141 0.0 11.8 17.6#





#15

Acrylonitrile

Concen: 2.651 ug/l

RT: 5.238 min Scan# 51

Delta R.T. 0.177 min

Lab File: VY021031.D

Acq: 03 Feb 2025 15:50

Instrument :

MSVOA_Y

ClientSampleId :

357

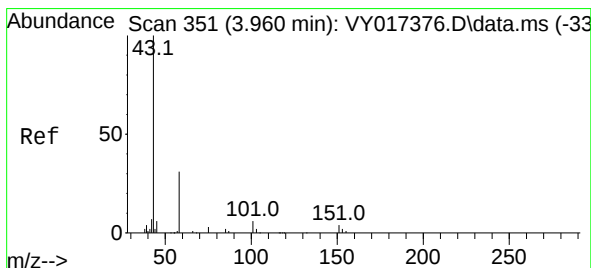
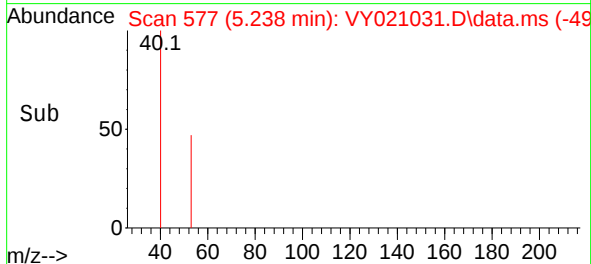
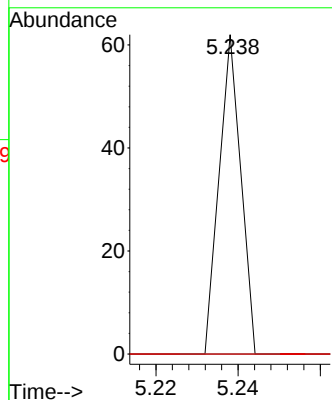
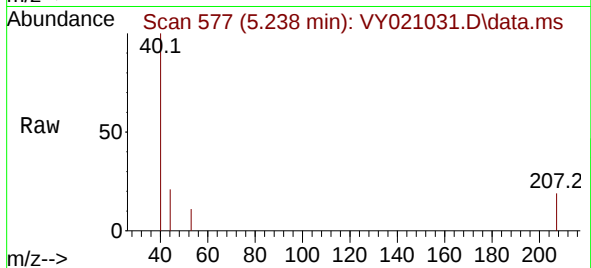
Tgt Ion: 53 Resp: 23

Ion Ratio Lower Upper

53 100

52 0.0 65.1 97.7#

51 0.0 29.0 43.4#



#16

Acetone

Concen: 31.610 ug/l

RT: 3.885 min Scan# 355

Delta R.T. 0.006 min

Lab File: VY021031.D

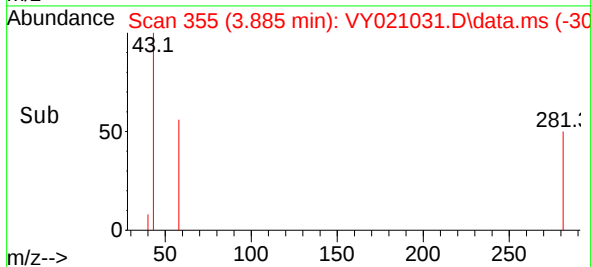
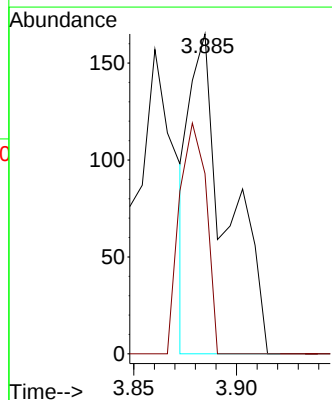
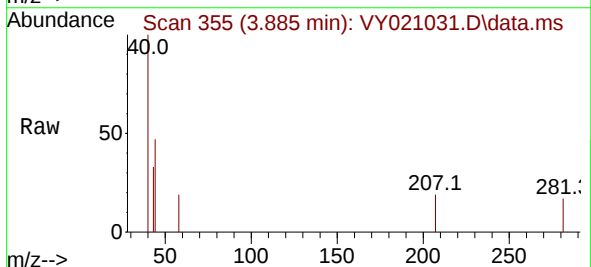
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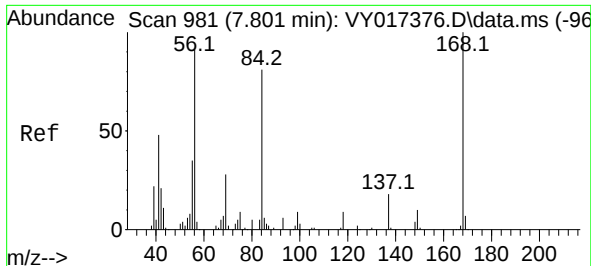
Tgt Ion: 43 Resp: 209

Ion Ratio Lower Upper

43 100

58 56.4 26.6 39.8#

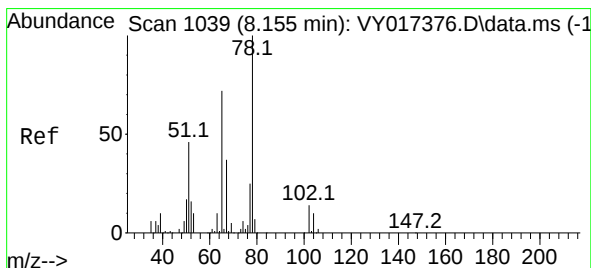
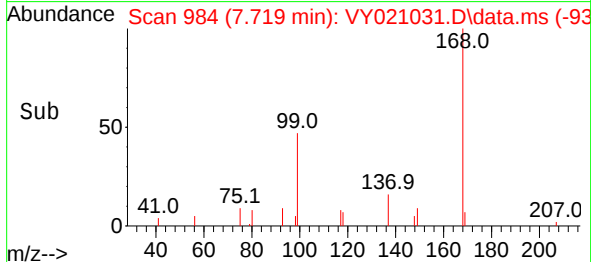
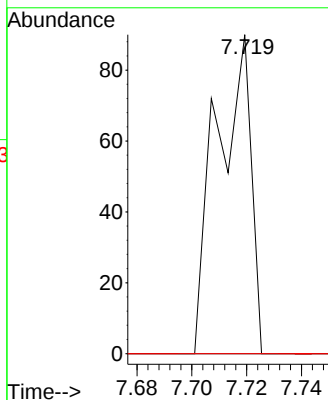
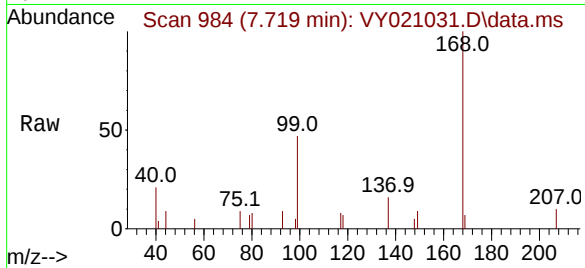




#31
Cyclohexane
Concen: 1.079 ug/l
RT: 7.719 min Scan# 91
Delta R.T. 0.012 min
Lab File: VY021031.D
Acq: 03 Feb 2025 15:50

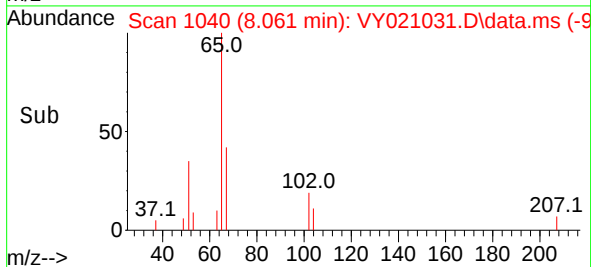
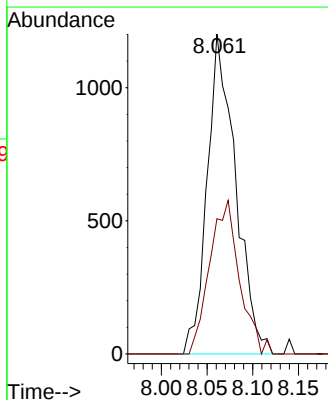
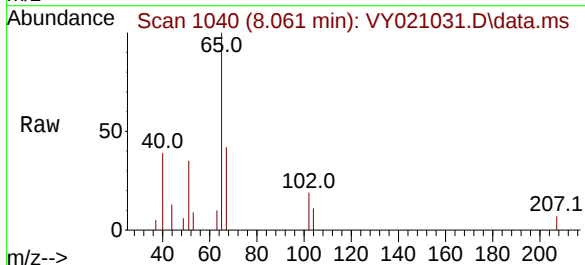
Instrument :
MSVOA_Y
ClientSampleId :
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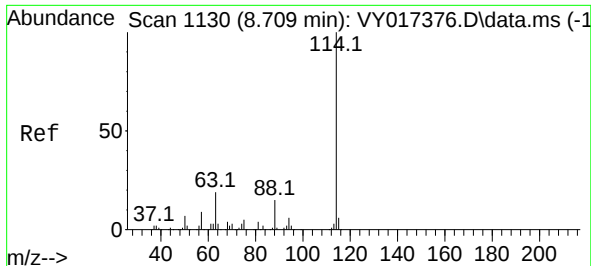
Tgt Ion: 56 Resp: 78
Ion Ratio Lower Upper
56 100
69 0.0 27.0 40.6#
84 0.0 71.8 107.6#



#33
1,2-Dichloroethane-d4
Concen: 61.466 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.006 min
Lab File: VY021031.D
Acq: 03 Feb 2025 15:50

Tgt Ion: 65 Resp: 2606
Ion Ratio Lower Upper
65 100
67 50.3 0.0 109.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.622 min Scan# 1132

Delta R.T. -0.000 min

Lab File: VY021031.D

Acq: 03 Feb 2025 15:50

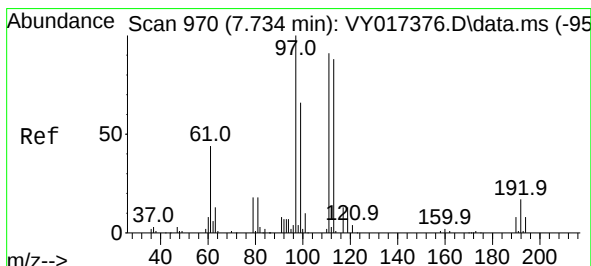
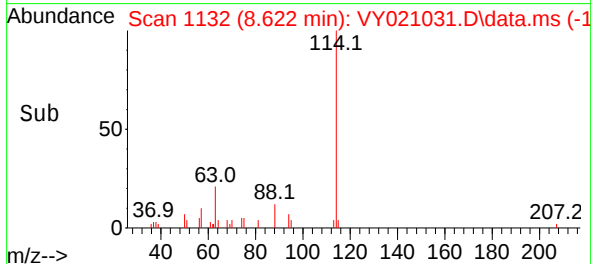
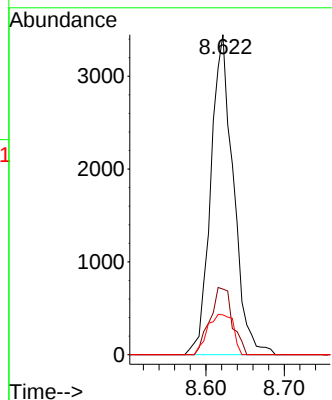
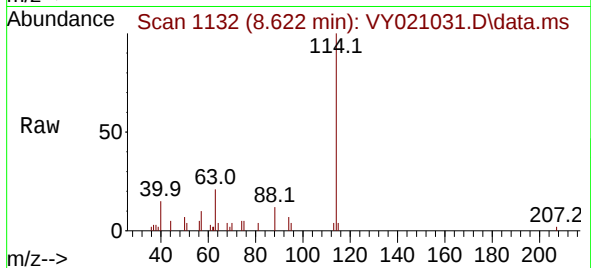
Instrument :

MSVOA_Y

ClientSampleId :

357

Tgt Ion:114	Resp:	6912
Ion	Ratio	Lower Upper
114	100	
63	20.5	0.0 37.4
88	12.4	0.0 29.0



#35

Dibromofluoromethane

Concen: 56.325 ug/l

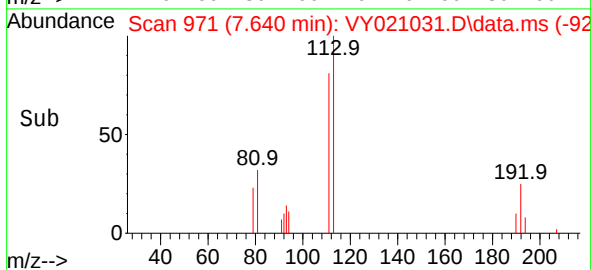
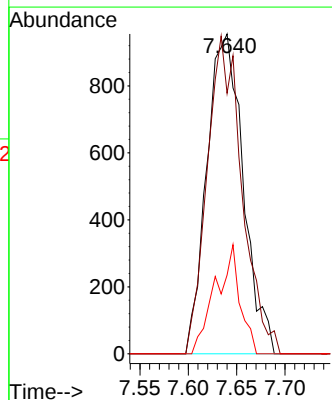
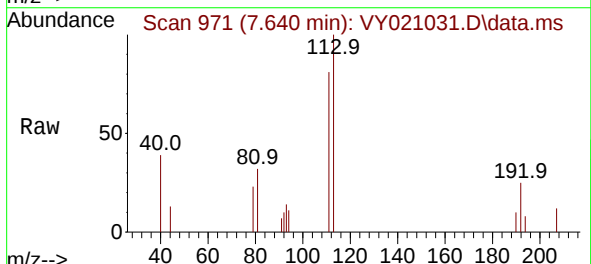
RT: 7.640 min Scan# 971

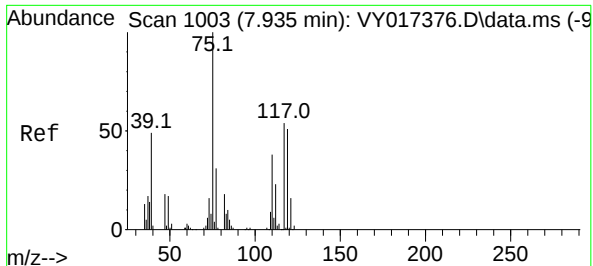
Delta R.T. -0.000 min

Lab File: VY021031.D

Acq: 03 Feb 2025 15:50

Tgt Ion:113	Resp:	2495
Ion	Ratio	Lower Upper
113	100	
111	95.2	83.8 125.6
192	23.1	14.5 21.7#





#36

1,1-Dichloropropene

Concen: 6.142 ug/l

RT: 7.707 min Scan# 91

Delta R.T. -0.134 min

Lab File: VY021031.D

Acq: 03 Feb 2025 15:50

Instrument :

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ClientSampleId :

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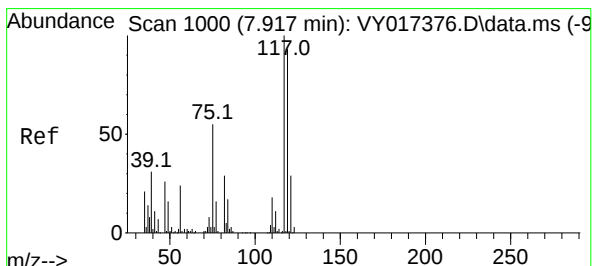
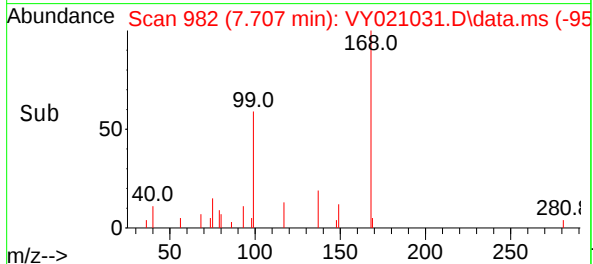
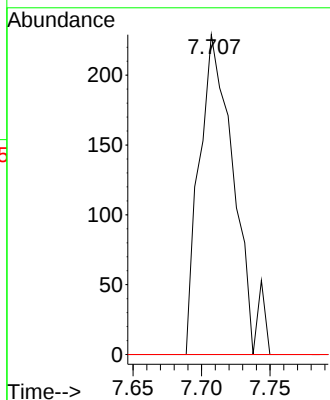
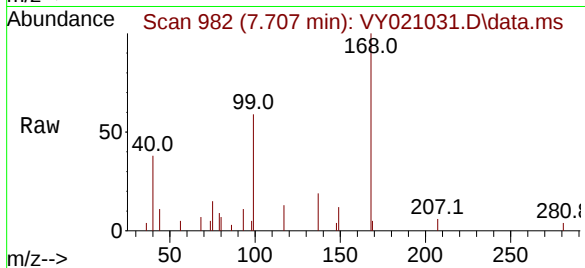
Tgt Ion: 75 Resp: 403

Ion Ratio Lower Upper

75 100

110 0.0 17.4 52.3#

77 0.0 24.7 37.1#



#38

Carbon Tetrachloride

Concen: 4.996 ug/l

RT: 7.707 min Scan# 982

Delta R.T. -0.116 min

Lab File: VY021031.D

Acq: 03 Feb 2025 15:50

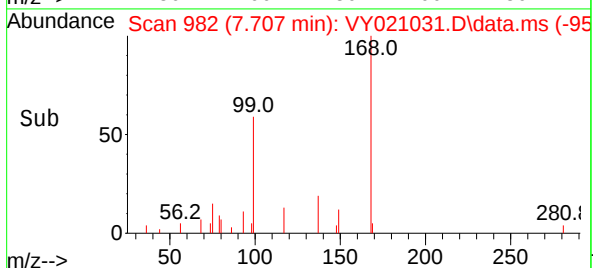
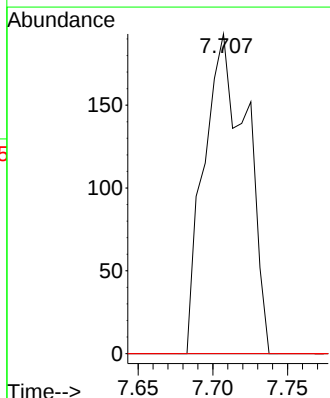
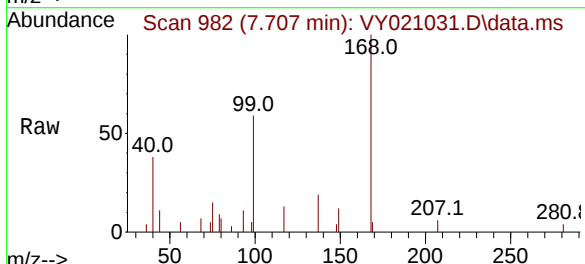
Tgt Ion: 117 Resp: 383

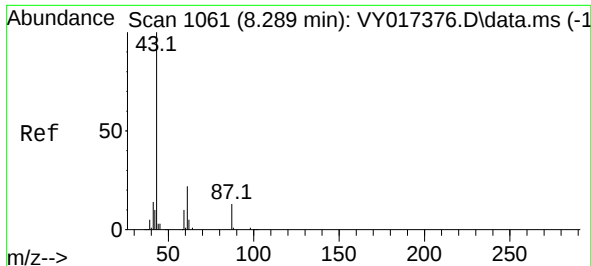
Ion Ratio Lower Upper

117 100

119 0.0 76.0 114.0#

121 0.0 24.2 36.2#

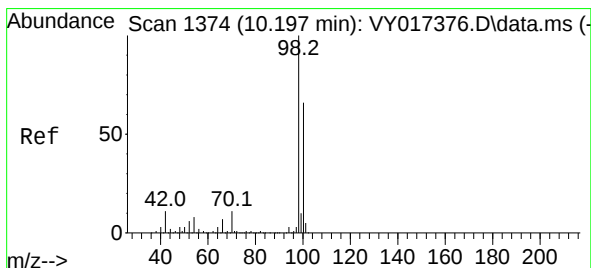
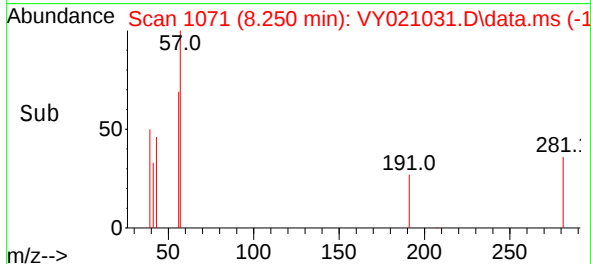
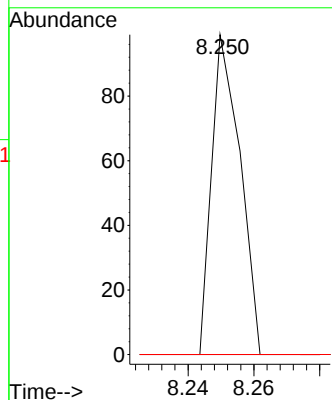
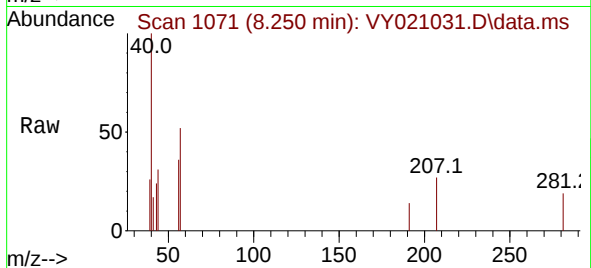




#43
Isopropyl Acetate
Concen: 1.032 ug/l
RT: 8.250 min Scan# 1061
Delta R.T. 0.049 min
Lab File: VY021031.D
Acq: 03 Feb 2025 15:50

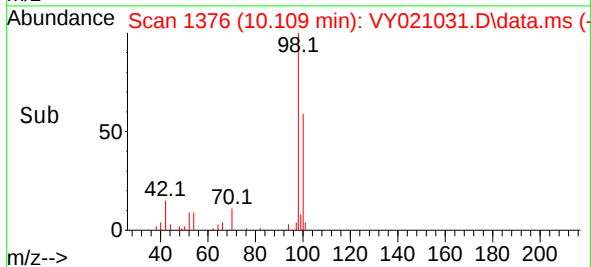
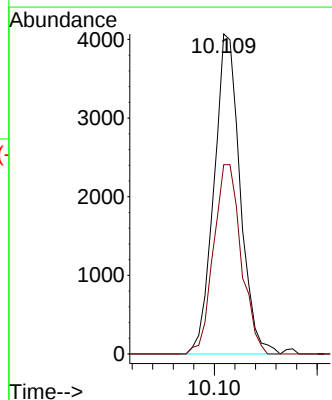
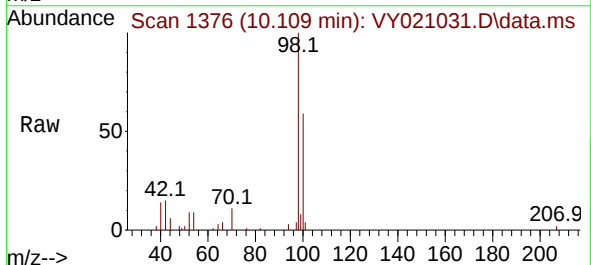
Instrument :
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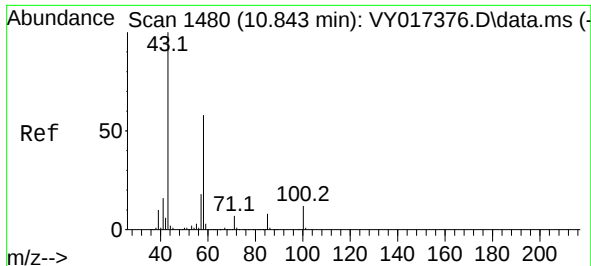
Tgt Ion: 43 Resp: 59
Ion Ratio Lower Upper
43 100
61 0.0 24.8 37.2#
87 0.0 10.7 16.1#



#50
Toluene-d8
Concen: 42.558 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. -0.000 min
Lab File: VY021031.D
Acq: 03 Feb 2025 15:50

Tgt Ion: 98 Resp: 7177
Ion Ratio Lower Upper
98 100
100 62.7 52.3 78.5





#59

2-Hexanone

Concen: 2.592 ug/l

RT: 10.774 min Scan# 1480

Delta R.T. 0.006 min

Lab File: VY021031.D

Acq: 03 Feb 2025 15:50

Instrument :

MSVOA_Y

ClientSampleId :

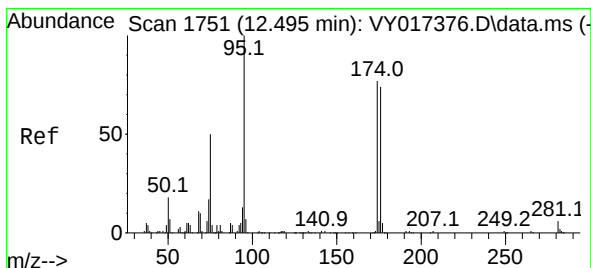
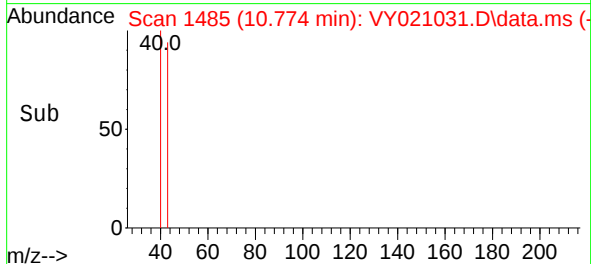
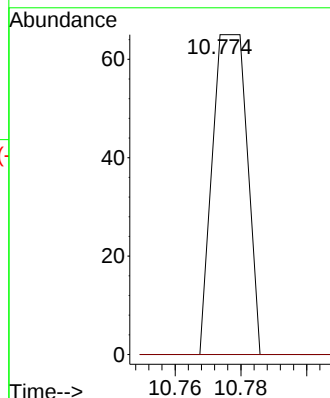
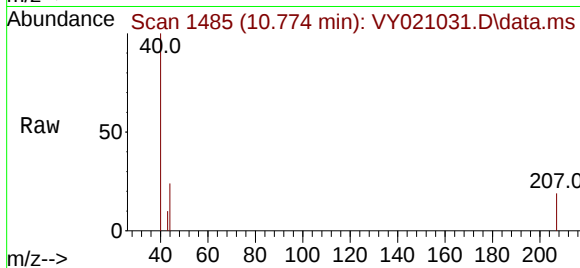
357

Tgt Ion: 43 Resp: 48

Ion Ratio Lower Upper

43 100

58 0.0 28.1 84.3#



#62

4-Bromofluorobenzene

Concen: 13.595 ug/l

RT: 12.414 min Scan# 1754

Delta R.T. -0.000 min

Lab File: VY021031.D

Acq: 03 Feb 2025 15:50

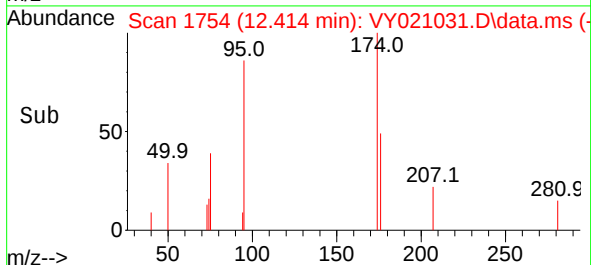
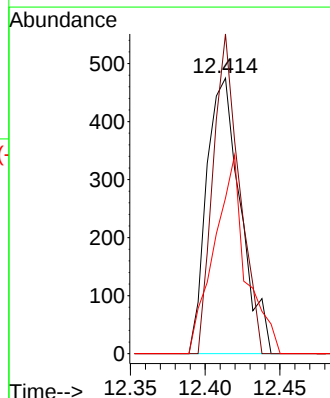
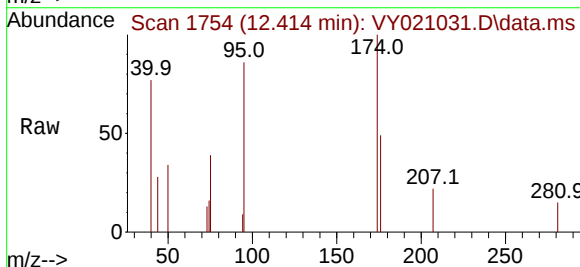
Tgt Ion: 95 Resp: 749

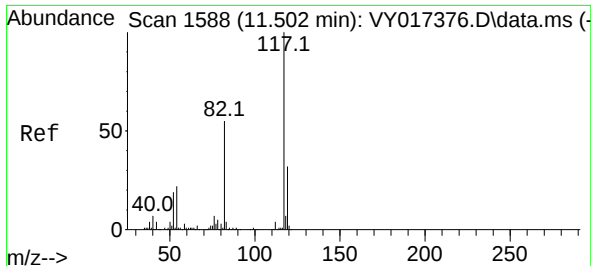
Ion Ratio Lower Upper

95 100

174 89.9 0.0 160.0

176 67.4 0.0 151.8

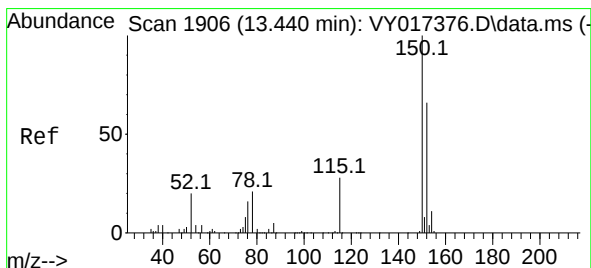
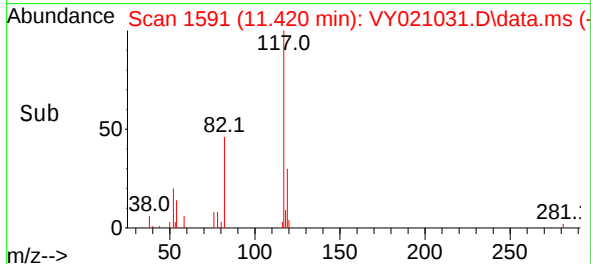
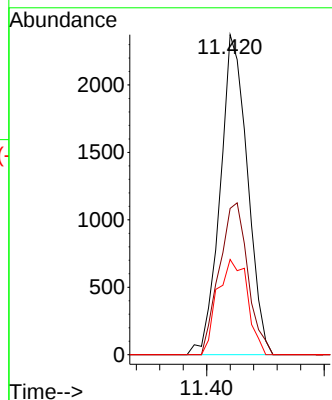
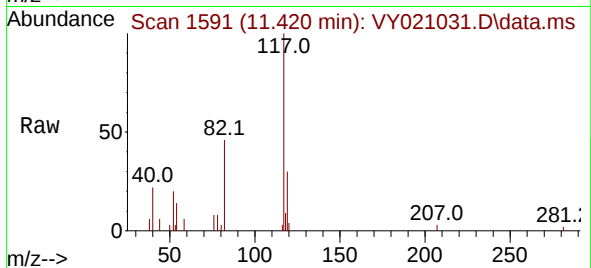




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY021031.D
Acq: 03 Feb 2025 15:50

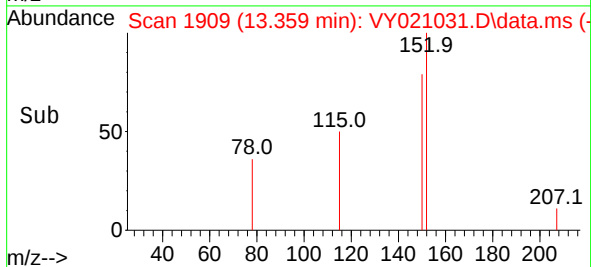
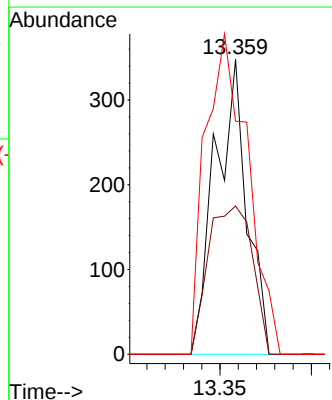
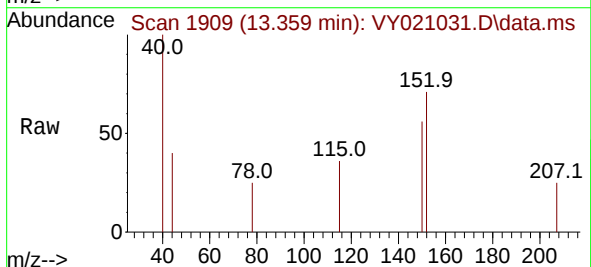
Instrument :
MSVOA_Y
ClientSampleId :
357

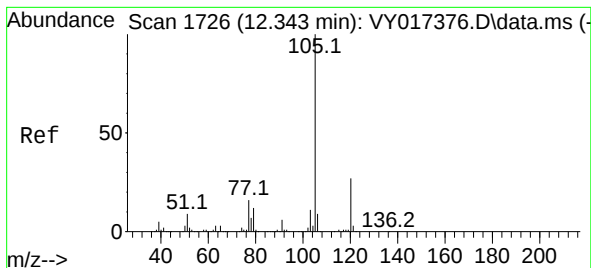
Tgt Ion:	117	Resp:	3829
Ion	Ratio	Lower	Upper
117	100		
82	45.7	43.8	65.8
119	29.8	26.5	39.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.359 min Scan# 1909
Delta R.T. 0.006 min
Lab File: VY021031.D
Acq: 03 Feb 2025 15:50

Tgt Ion:	152	Resp:	420
Ion	Ratio	Lower	Upper
152	100		
115	70.0	30.0	90.0
150	144.3	0.0	344.6





#73

Isopropylbenzene

Concen: 1.798 ug/l

RT: 12.255 min Scan# 1753

Delta R.T. -0.006 min

Lab File: VY021031.D

Acq: 03 Feb 2025 15:50

Instrument :

MSVOA_Y

ClientSampleId :

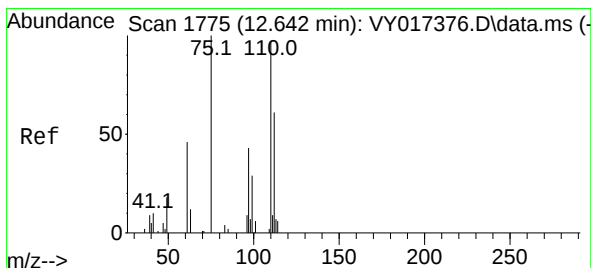
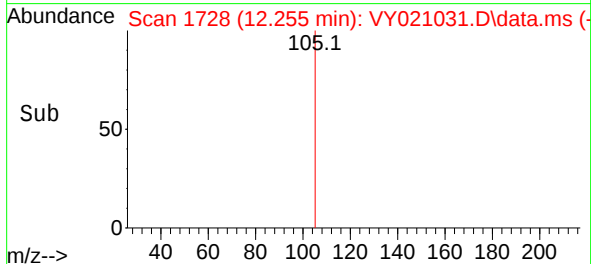
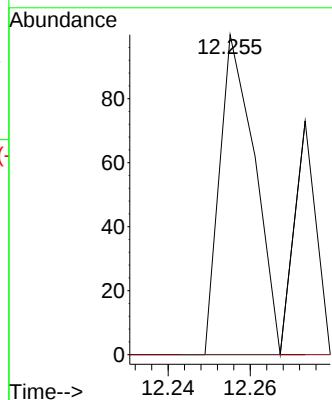
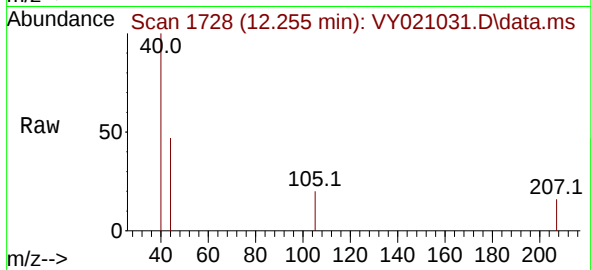
357

Tgt Ion:105 Resp: 59

Ion Ratio Lower Upper

105 100

120 0.0 13.0 39.0#



#76

1,2,3-Trichloropropane

Concen: 84.779 ug/l

RT: 12.407 min Scan# 1753

Delta R.T. -0.153 min

Lab File: VY021031.D

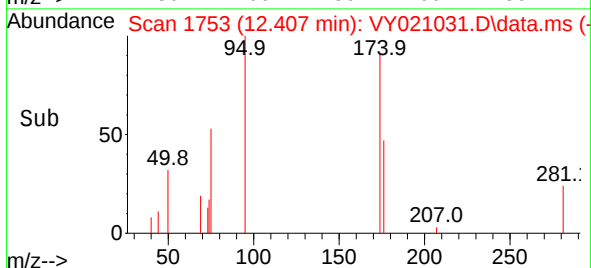
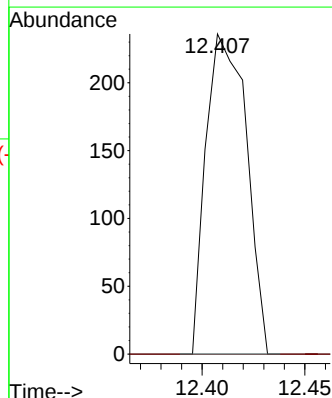
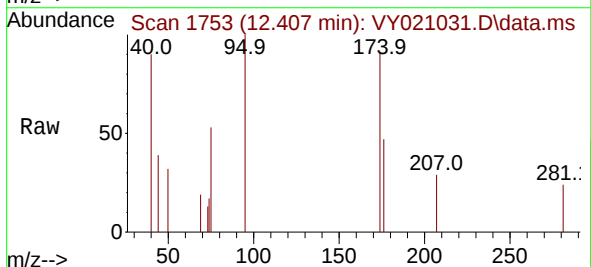
Acq: 03 Feb 2025 15:50

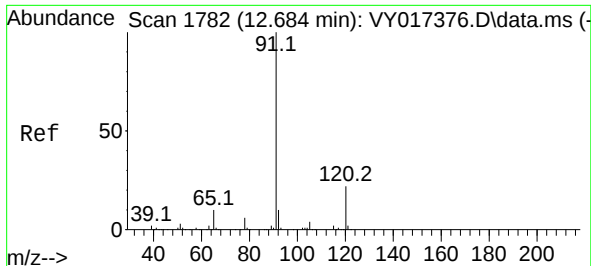
Tgt Ion: 75 Resp: 323

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0





#78

n-propylbenzene

Concen: 2.789 ug/l

RT: 12.596 min Scan# 1784

Delta R.T. -0.006 min

Lab File: VY021031.D

Acq: 03 Feb 2025 15:50

Instrument :

MSVOA_Y

ClientSampleId :

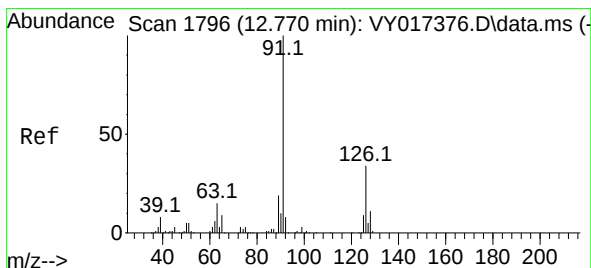
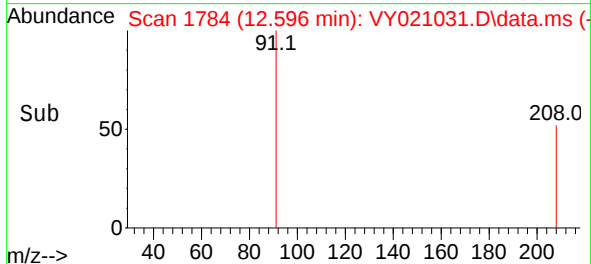
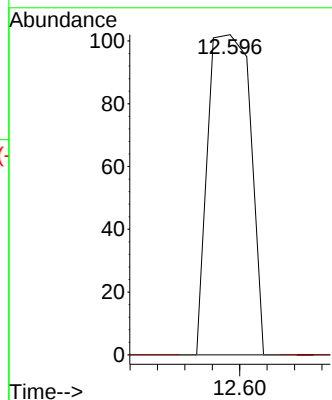
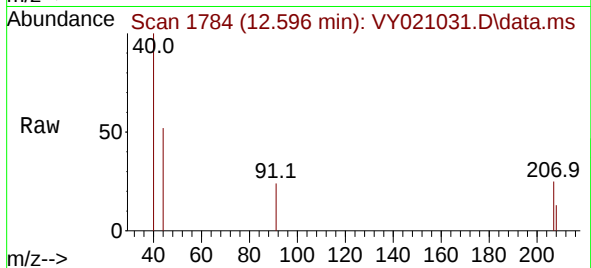
357

Tgt Ion: 91 Resp: 109

Ion Ratio Lower Upper

91 100

120 0.0 11.0 33.0#



#79

2-Chlorotoluene

Concen: 5.182 ug/l

RT: 12.682 min Scan# 1798

Delta R.T. -0.006 min

Lab File: VY021031.D

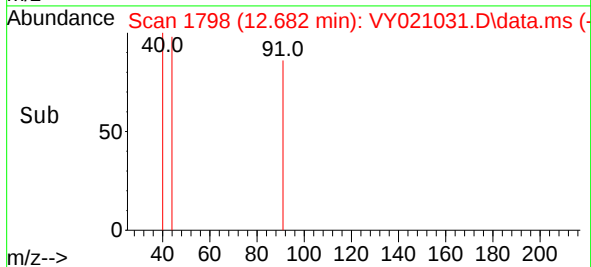
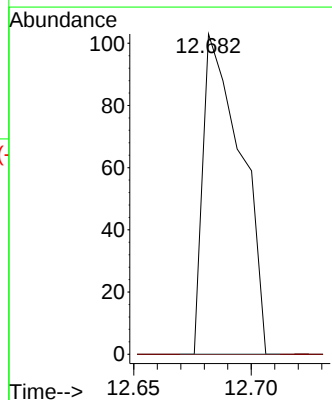
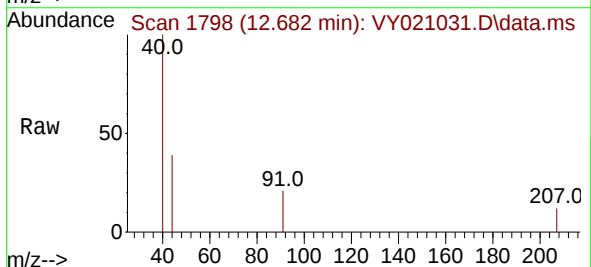
Acq: 03 Feb 2025 15:50

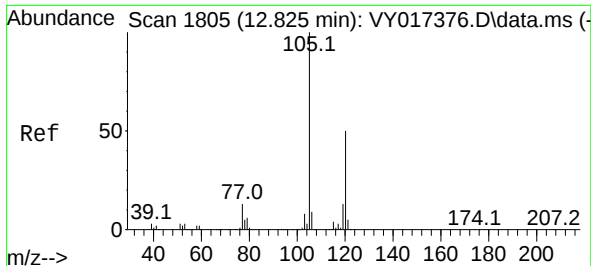
Tgt Ion: 91 Resp: 116

Ion Ratio Lower Upper

91 100

126 0.0 17.0 51.0#

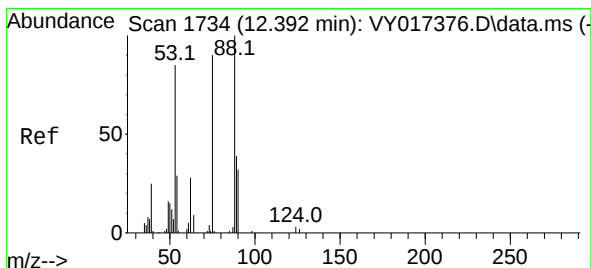
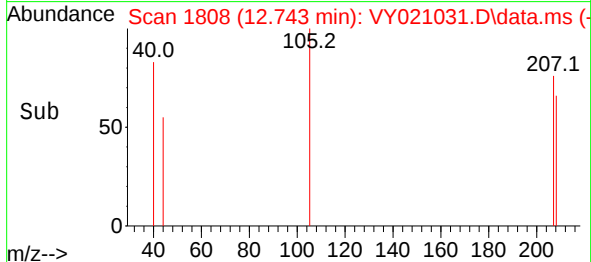
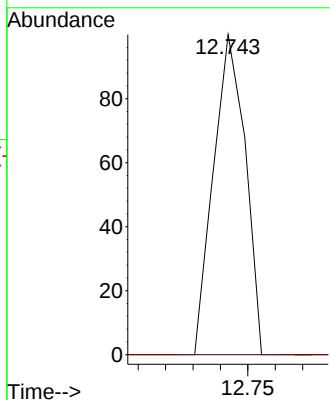
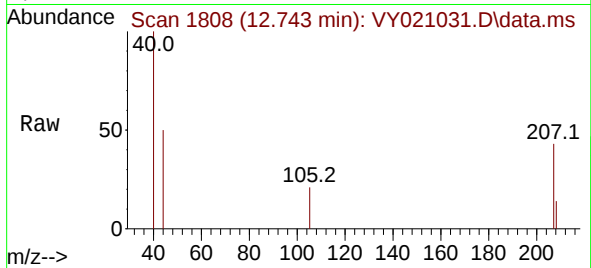




#80
1,3,5-Trimethylbenzene
Concen: 3.008 ug/l
RT: 12.743 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY021031.D
Acq: 03 Feb 2025 15:50

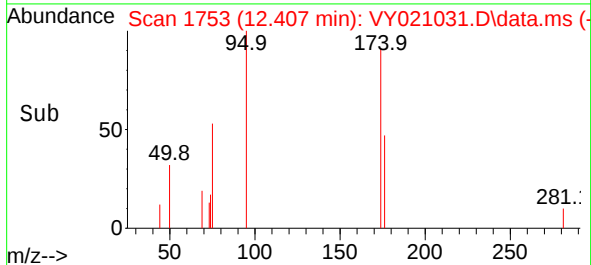
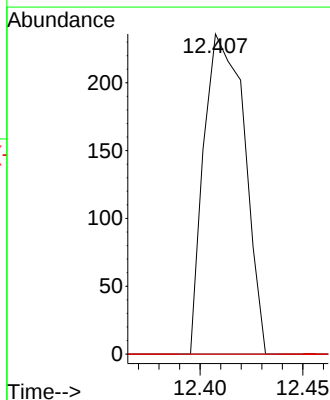
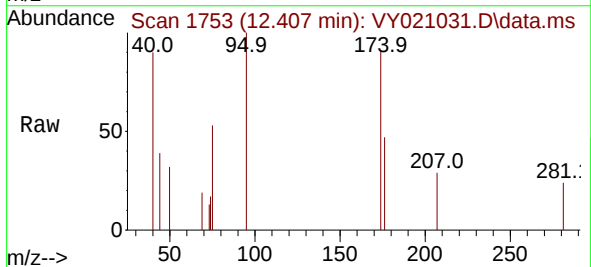
Instrument :
MSVOA_Y
ClientSampleId :
357

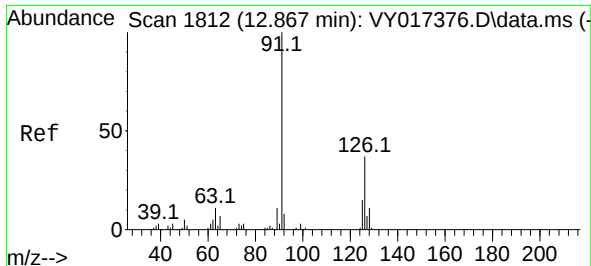
Tgt Ion:105 Resp: 80
Ion Ratio Lower Upper
105 100
120 0.0 24.3 72.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 172.989 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. 0.097 min
Lab File: VY021031.D
Acq: 03 Feb 2025 15:50

Tgt Ion: 75 Resp: 323
Ion Ratio Lower Upper
75 100
53 0.0 74.0 111.0#
89 0.0 36.5 54.7#





#82

4-Chlorotoluene

Concen: 5.086 ug/l

RT: 12.682 min Scan# 116

Delta R.T. -0.104 min

Lab File: VY021031.D

Acq: 03 Feb 2025 15:50

Instrument :

MSVOA_Y

ClientSampleId :

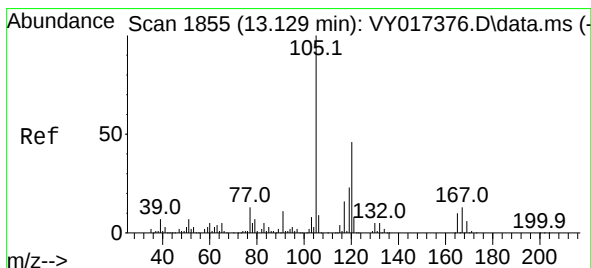
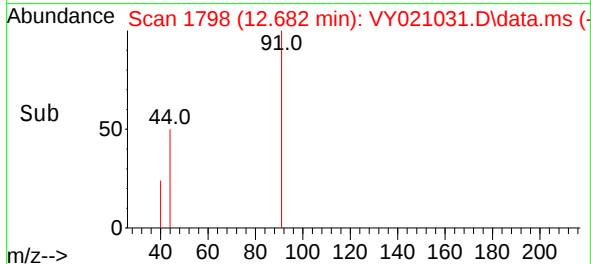
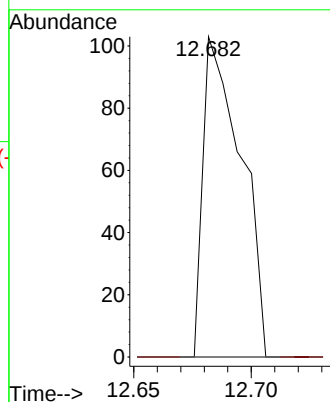
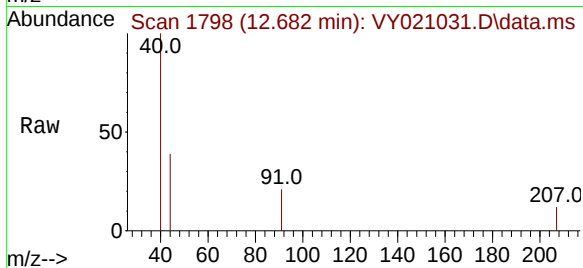
357

Tgt Ion: 91 Resp: 116

Ion Ratio Lower Upper

91 100

126 0.0 17.1 51.2#



#84

1,2,4-Trimethylbenzene

Concen: 5.191 ug/l

RT: 13.042 min Scan# 1857

Delta R.T. -0.006 min

Lab File: VY021031.D

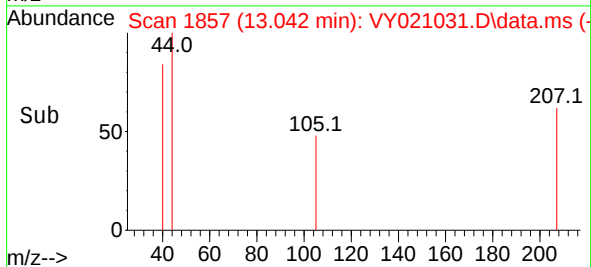
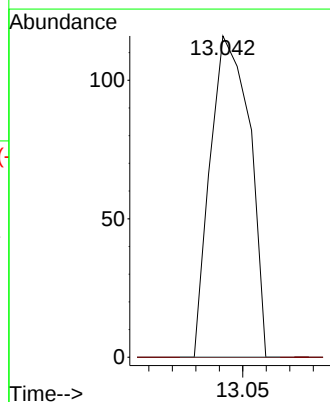
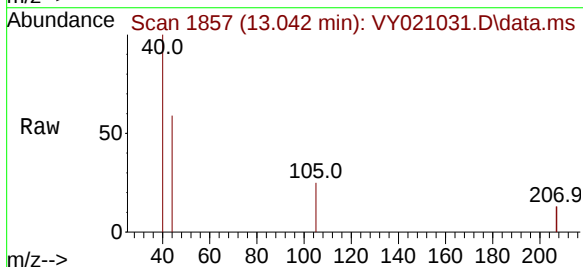
Acq: 03 Feb 2025 15:50

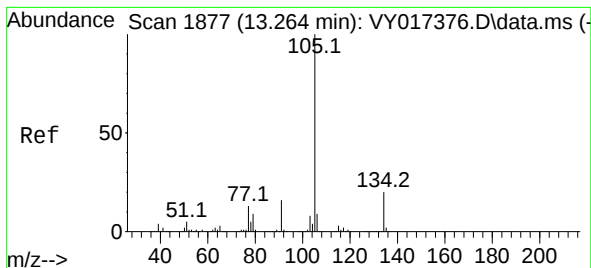
Tgt Ion: 105 Resp: 135

Ion Ratio Lower Upper

105 100

120 0.0 22.1 66.3#





#85

sec-Butylbenzene

Concen: 1.925 ug/l

RT: 13.188 min Scan# 1881

Delta R.T. 0.006 min

Lab File: VY021031.D

Acq: 03 Feb 2025 15:50

Instrument :

MSVOA_Y

ClientSampleId :

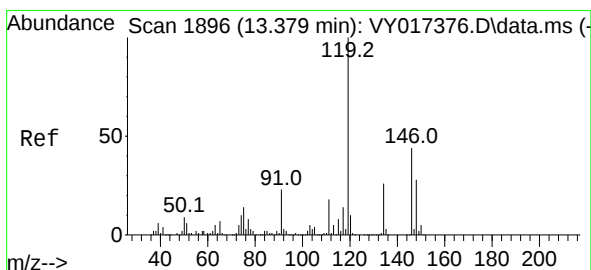
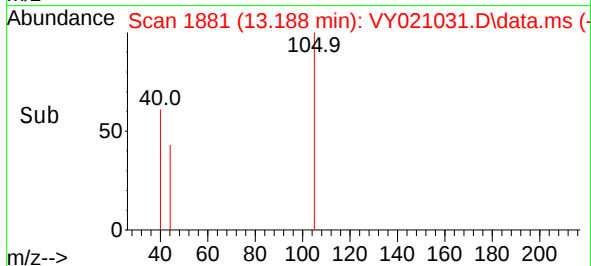
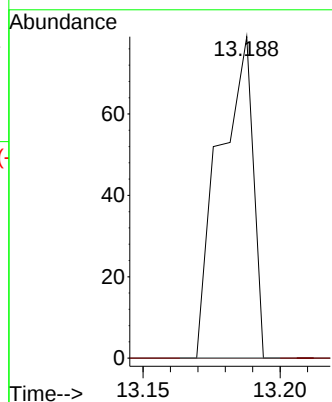
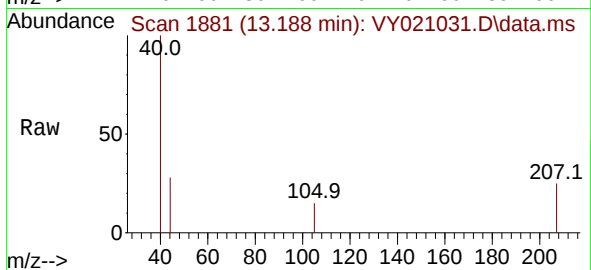
357

Tgt Ion:105 Resp: 67

Ion Ratio Lower Upper

105 100

134 0.0 9.7 28.9#



#87

1,3-Dichlorobenzene

Concen: 4.652 ug/l

RT: 13.285 min Scan# 1897

Delta R.T. -0.006 min

Lab File: VY021031.D

Acq: 03 Feb 2025 15:50

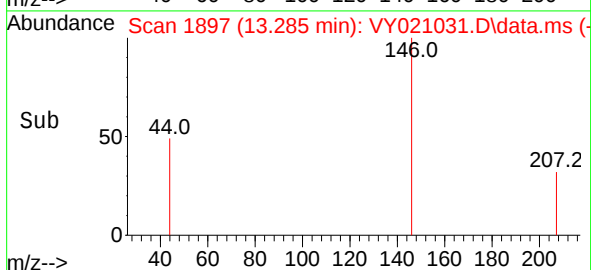
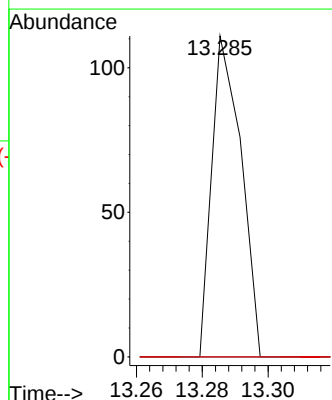
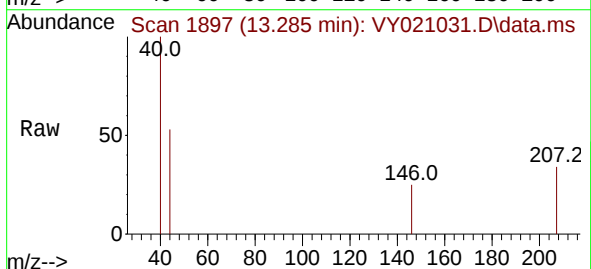
Tgt Ion:146 Resp: 68

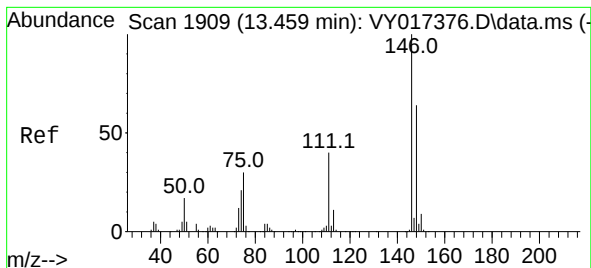
Ion Ratio Lower Upper

146 100

111 0.0 20.2 60.5#

148 0.0 31.9 95.9#





#88

1,4-Dichlorobenzene

Concen: 4.724 ug/l

RT: 13.285 min Scan# 11

Delta R.T. -0.086 min

Lab File: VY021031.D

Acq: 03 Feb 2025 15:50

Instrument :

MSVOA_Y

ClientSampleId :

357

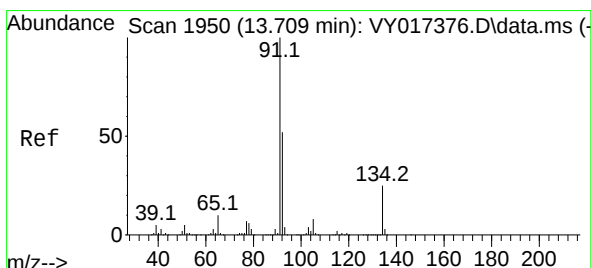
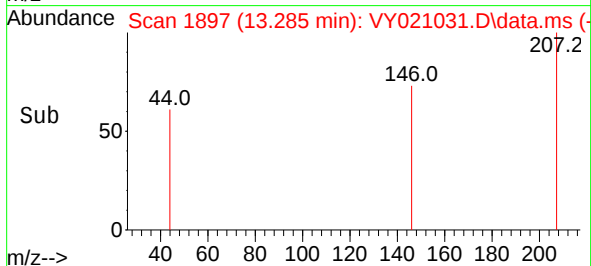
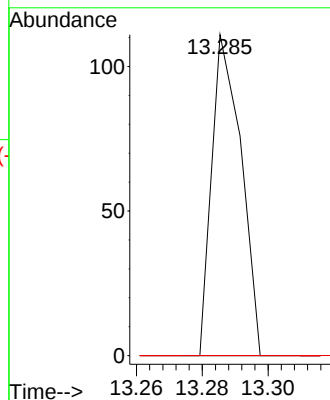
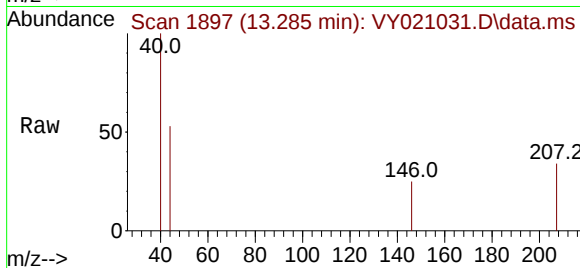
Tgt Ion:146 Resp: 68

Ion Ratio Lower Upper

146 100

111 0.0 19.3 57.9#

148 0.0 31.6 94.7#



#89

n-Butylbenzene

Concen: 1.100 ug/l

RT: 13.627 min Scan# 1953

Delta R.T. 0.006 min

Lab File: VY021031.D

Acq: 03 Feb 2025 15:50

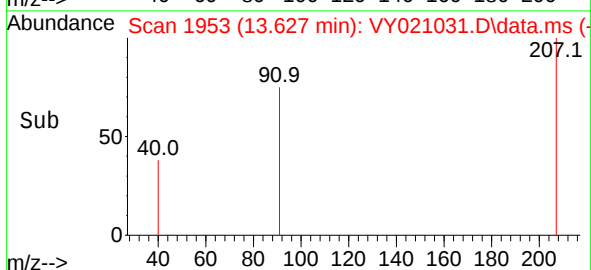
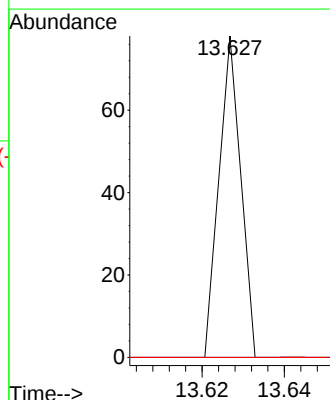
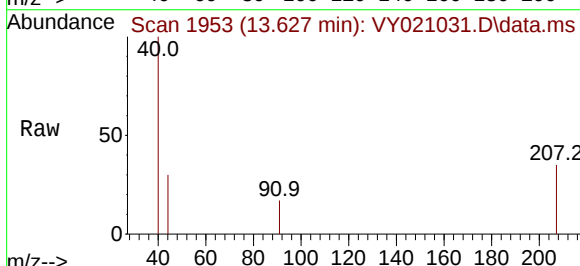
Tgt Ion: 91 Resp: 29

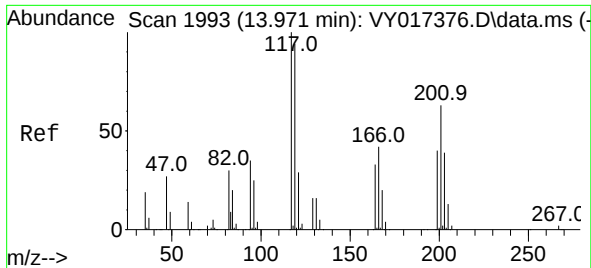
Ion Ratio Lower Upper

91 100

92 0.0 26.4 79.2#

134 0.0 12.3 36.8#

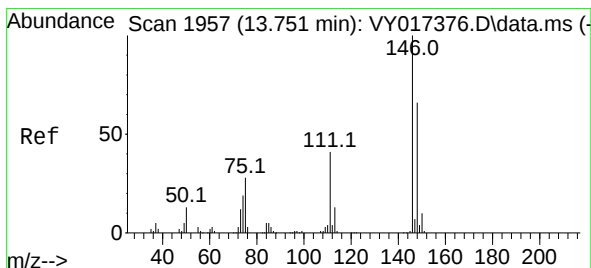
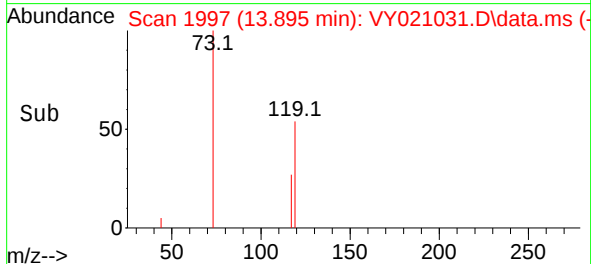
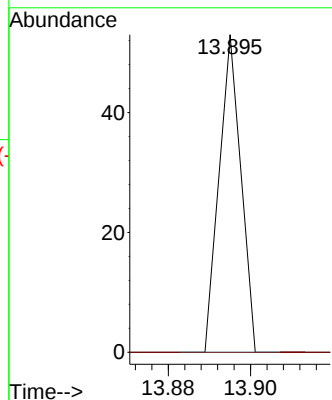
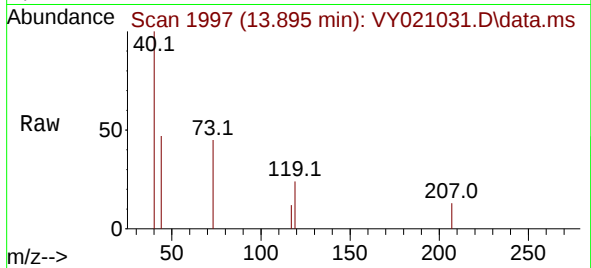




#90
Hexachloroethane
Concen: 3.150 ug/l
RT: 13.895 min Scan# 1997
Delta R.T. 0.006 min
Lab File: VY021031.D
Acq: 03 Feb 2025 15:50

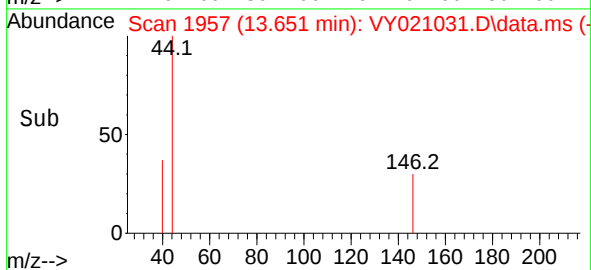
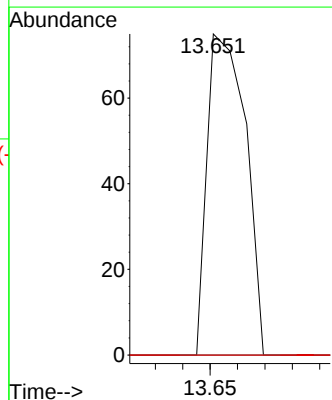
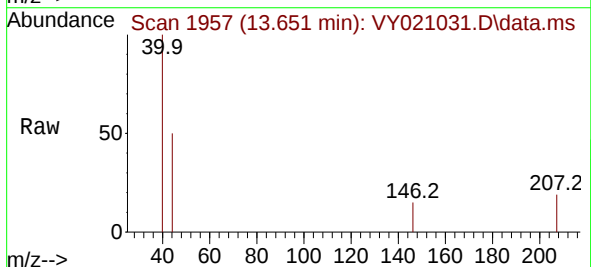
Instrument :
MSVOA_Y
ClientSampleId :
357

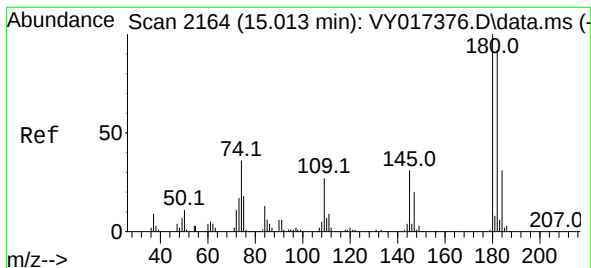
Tgt Ion:117 Resp: 19
Ion Ratio Lower Upper
117 100
201 0.0 33.4 100.1#



#91
1,2-Dichlorobenzene
Concen: 5.753 ug/l
RT: 13.651 min Scan# 1957
Delta R.T. -0.012 min
Lab File: VY021031.D
Acq: 03 Feb 2025 15:50

Tgt Ion:146 Resp: 73
Ion Ratio Lower Upper
146 100
111 0.0 20.5 61.6#
148 0.0 31.4 94.3#





#93

1,2,4-Trichlorobenzene

Concen: 15.717 ug/l

RT: 14.931 min Scan# 2164

Delta R.T. 0.006 min

Lab File: VY021031.D

Acq: 03 Feb 2025 15:50

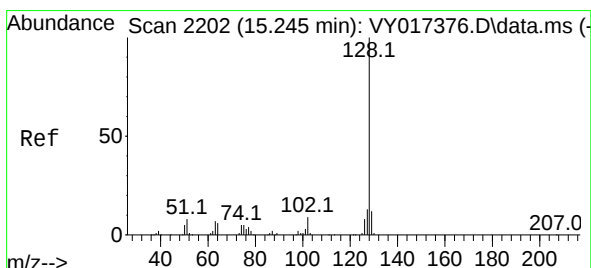
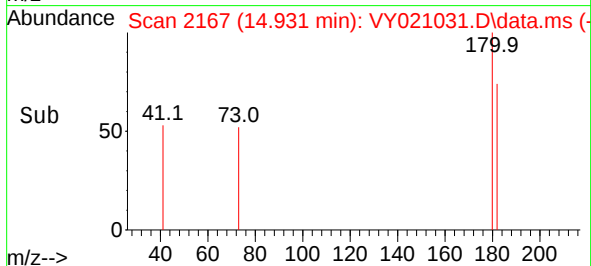
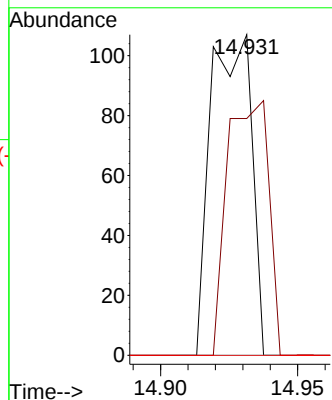
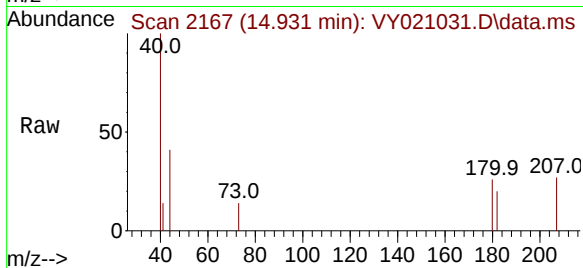
Instrument :

MSVOA_Y

ClientSampleId :

357

Tgt Ion:180	Resp:	111
Ion Ratio	Lower	Upper
180	100	
182	80.2	47.9 143.7
145	0.0	15.9 47.7#



#95

Naphthalene

Concen: 27.082 ug/l

RT: 15.151 min Scan# 2203

Delta R.T. -0.000 min

Lab File: VY021031.D

Acq: 03 Feb 2025 15:50

Tgt Ion:128	Resp:	306
Ion Ratio	Lower	Upper
128	100	
127	0.0	10.2 15.4#
129	0.0	8.6 12.8#

