

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041425\
 Data File : VY021871.D
 Acq On : 14 Apr 2025 15:50
 Operator : SY/MD
 Sample : Q1783-01
 Misc : 5.05g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 SU-03-41125

Quant Time: Apr 14 23:32:24 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 28 02:30:29 2025
 Response via : Initial Calibration

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

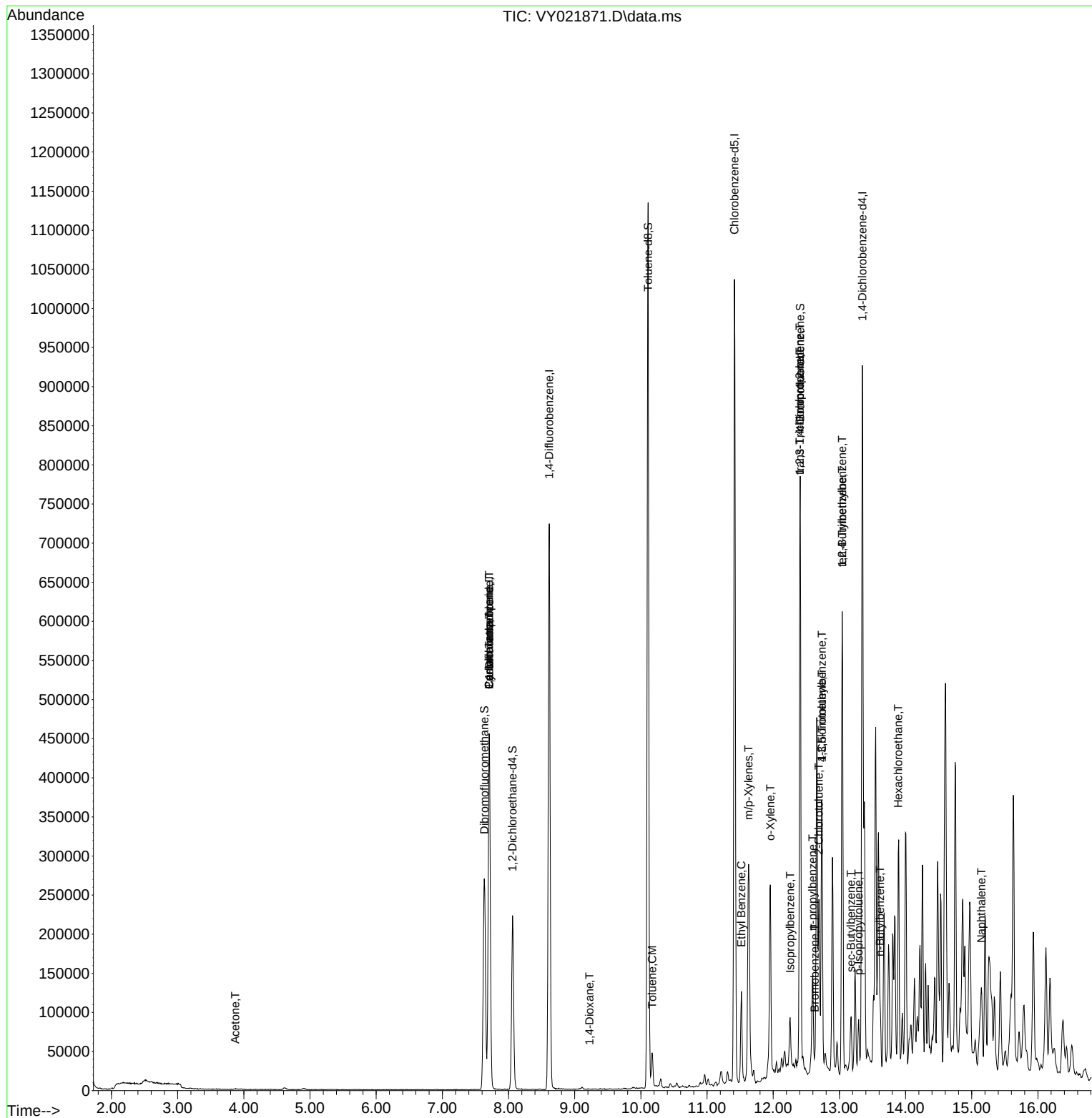
Internal Standards						
1) Pentafluorobenzene	7.707	168	343659	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	605607	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	527173	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	223281	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	167920	45.098	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	90.200%		
35) Dibromofluoromethane	7.634	113	192359	48.965	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	97.940%		
50) Toluene-d8	10.109	98	714513	47.809	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	95.620%		
62) 4-Bromofluorobenzene	12.408	95	231433	45.782	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	91.560%		
Target Compounds					Qvalue	
16) Acetone	3.873	43	1567	2.056	ug/l #	30
20) Methylene Chloride	4.629	84	1648	Below Cal	#	74
31) Cyclohexane	7.707	56	7237	1.101	ug/l #	1
36) 1,1-Dichloropropene	7.707	75	27294	4.561	ug/l #	52
38) Carbon Tetrachloride	7.707	117	34754	5.071	ug/l #	16
49) 1,4-Dioxane	9.225	88	45	1.718	ug/l #	21
52) Toluene	10.170	92	17177	1.536	ug/l	99
67) Ethyl Benzene	11.518	91	75706	3.653	ug/l	97
68) m/p-Xylenes	11.627	106	77691	9.791	ug/l	97
69) o-Xylene	11.957	106	62400	8.519	ug/l	99
73) Isopropylbenzene	12.255	105	31539	1.902	ug/l	98
76) 1,2,3-Trichloropropane	12.402	75	122789	55.478	ug/l #	100
77) Bromobenzene	12.627	156	17044	4.280	ug/l #	1
78) n-propylbenzene	12.597	91	84129	4.220	ug/l	97
79) 2-Chlorotoluene	12.688	91	11728	1.013	ug/l #	42
80) 1,3,5-Trimethylbenzene	12.737	105	118004	8.706	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.402	75	122789	127.831	ug/l #	11
82) 4-Chlorotoluene	12.737	91	12469	1.033	ug/l #	42
83) tert-Butylbenzene	13.042	119	37735	3.126	ug/l #	64
84) 1,2,4-Trimethylbenzene	13.042	105	308266	23.012	ug/l	100
85) sec-Butylbenzene	13.176	105	40665	2.305	ug/l	91
86) p-Isopropyltoluene	13.292	119	25411	1.743	ug/l	97
89) n-Butylbenzene	13.615	91	32577	2.416	ug/l #	70
90) Hexachloroethane	13.889	117	12714	3.979	ug/l #	12
95) Naphthalene	15.145	128	60686	9.886	ug/l #	96

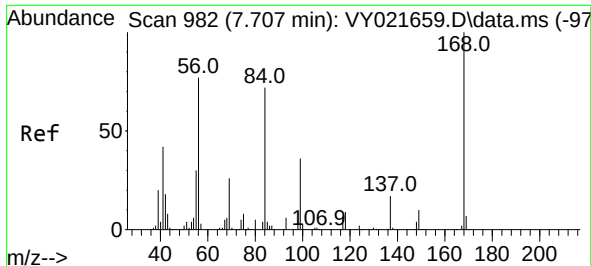
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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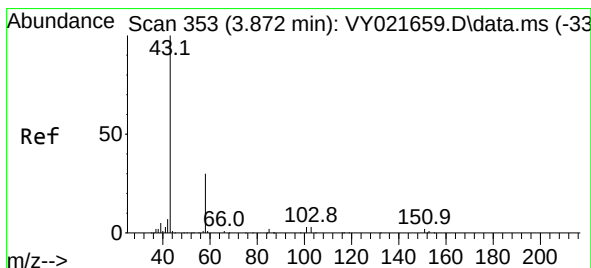
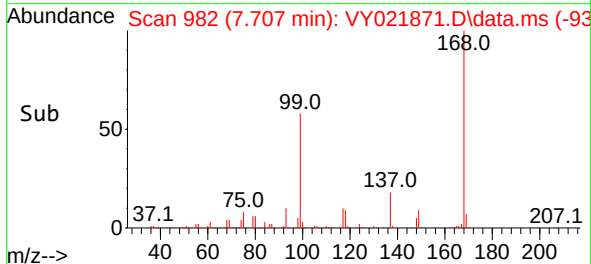
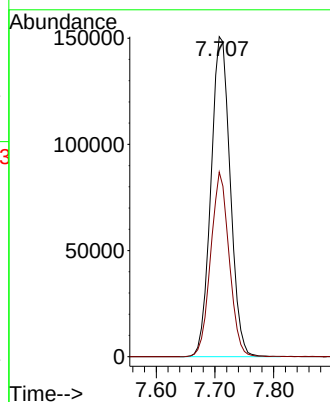
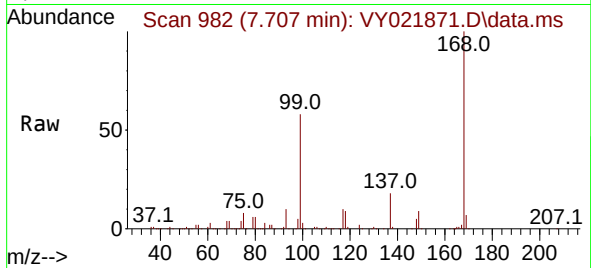




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 982
Delta R.T. 0.000 min
Lab File: VY021871.D
Acq: 14 Apr 2025 15:50

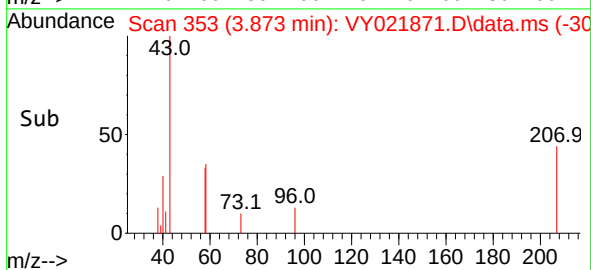
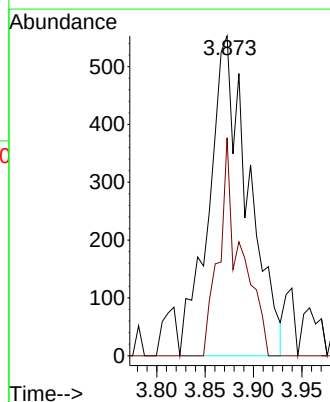
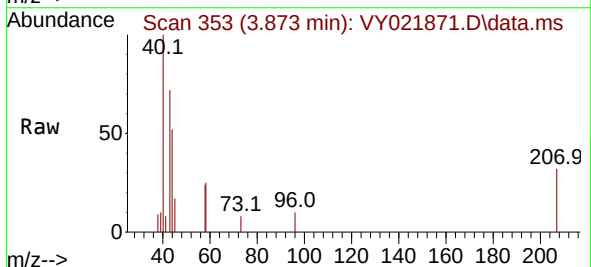
Instrument :
MSVOA_Y
ClientSampleId :
SU-03-41125

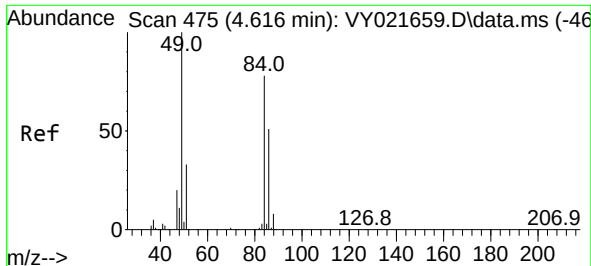
Tgt Ion:168 Resp: 343659
Ion Ratio Lower Upper
168 100
99 57.7 46.7 70.1



#16
Acetone
Concen: 2.056 ug/l
RT: 3.873 min Scan# 353
Delta R.T. 0.000 min
Lab File: VY021871.D
Acq: 14 Apr 2025 15:50

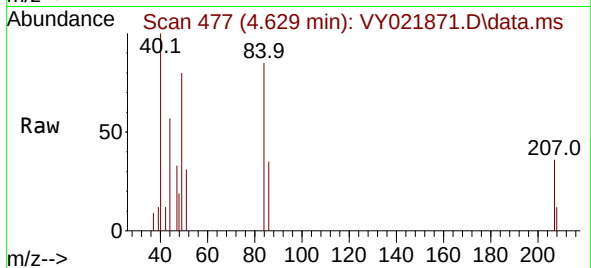
Tgt Ion: 43 Resp: 1567
Ion Ratio Lower Upper
43 100
58 68.2 24.2 36.4#





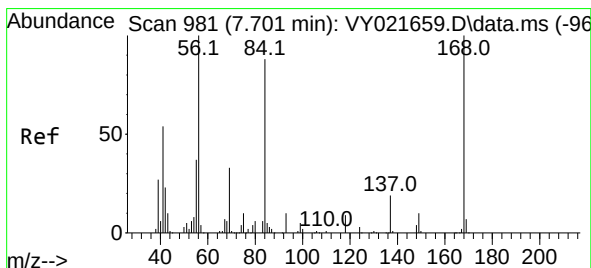
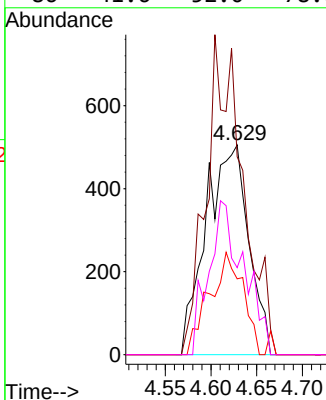
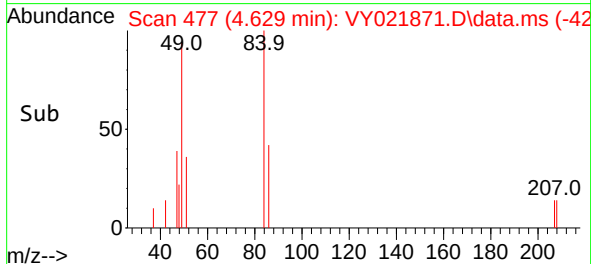
#20
Methylene Chloride
Concen: Below Cal
RT: 4.629 min Scan# 41
Delta R.T. 0.013 min
Lab File: VY021871.D
Acq: 14 Apr 2025 15:50

Instrument :
MSVOA_Y
ClientSampleId :
SU-03-41125



Tgt Ion: 84 Resp: 1648

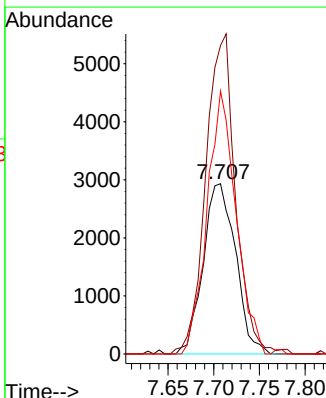
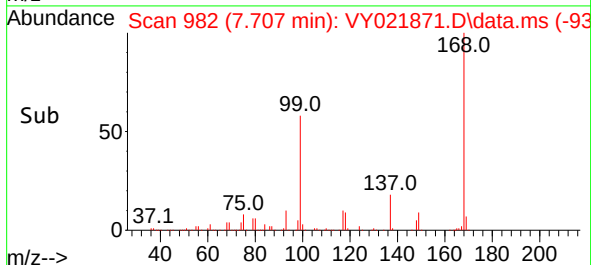
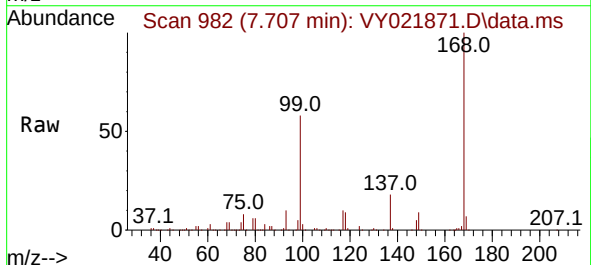
Ion	Ratio	Lower	Upper
84	100		
49	94.5	102.8	154.2#
51	36.2	33.5	50.3
86	41.6	52.0	78.0#

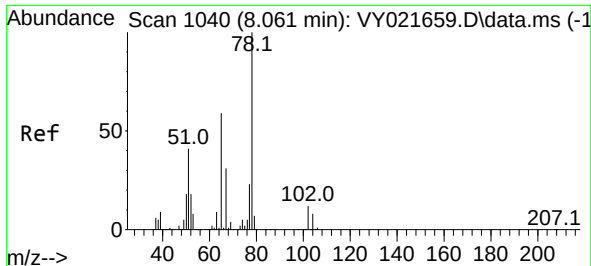


#31
Cyclohexane
Concen: 1.101 ug/l
RT: 7.707 min Scan# 982
Delta R.T. 0.006 min
Lab File: VY021871.D
Acq: 14 Apr 2025 15:50

Tgt Ion: 56 Resp: 7237

Ion	Ratio	Lower	Upper
56	100		
69	179.1	26.6	40.0#
84	154.3	69.0	103.4#





#33

1,2-Dichloroethane-d4

Concen: 45.098 ug/l

RT: 8.061 min Scan# 1

Delta R.T. 0.000 min

Lab File: VY021871.D

Acq: 14 Apr 2025 15:50

Instrument :

MSVOA_Y

ClientSampleId :

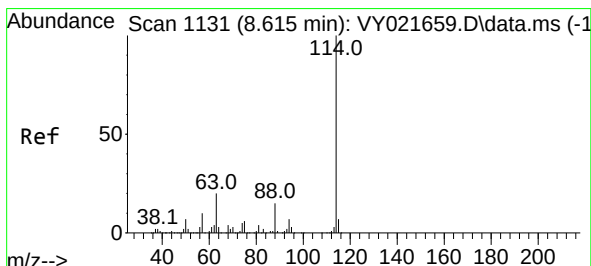
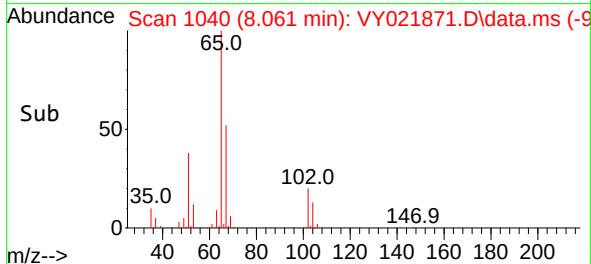
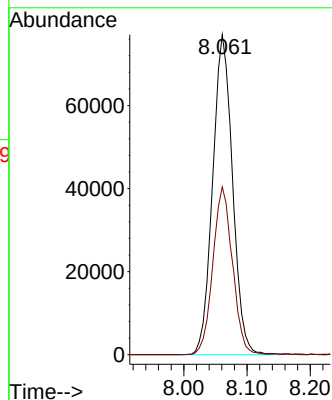
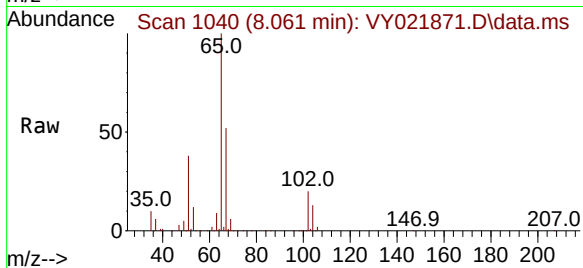
SU-03-41125

Tgt Ion: 65 Resp: 167920

Ion Ratio Lower Upper

65 100

67 51.7 0.0 104.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VY021871.D

Acq: 14 Apr 2025 15:50

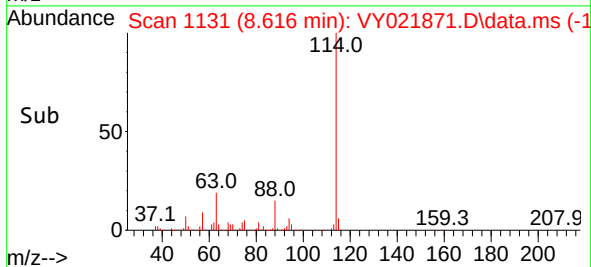
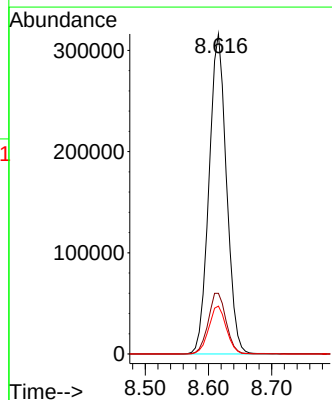
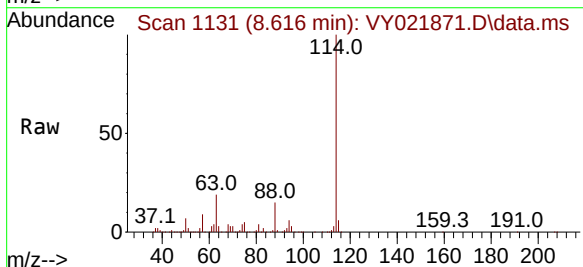
Tgt Ion: 114 Resp: 605607

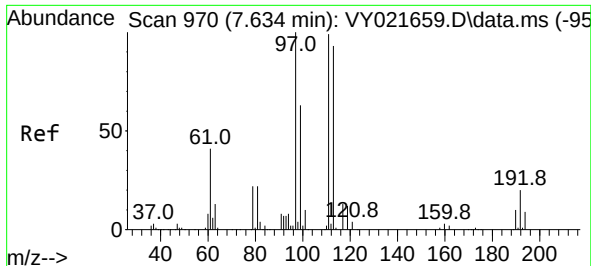
Ion Ratio Lower Upper

114 100

63 19.0 0.0 40.2

88 15.0 0.0 29.8

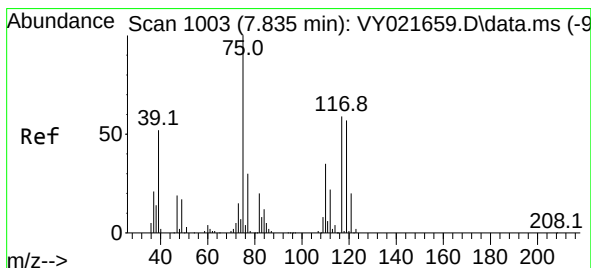
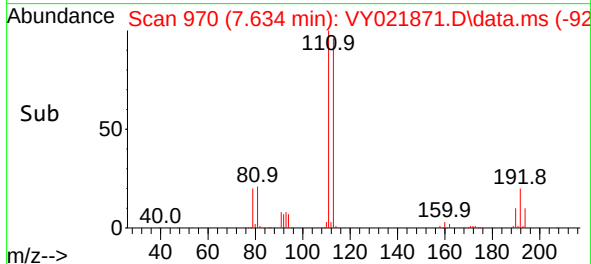
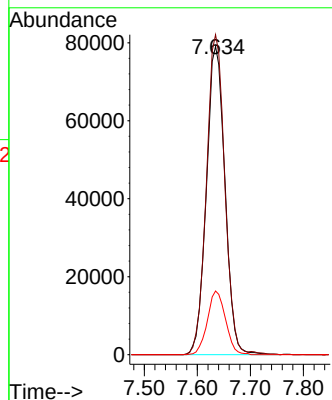
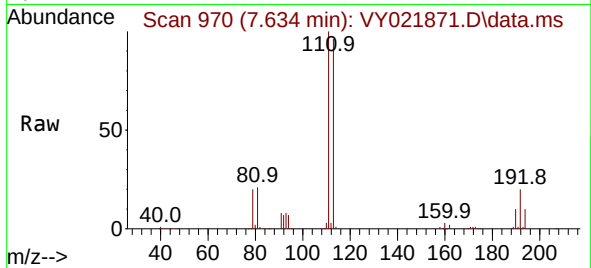




#35
Dibromofluoromethane
Concen: 48.965 ug/l
RT: 7.634 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY021871.D
Acq: 14 Apr 2025 15:50

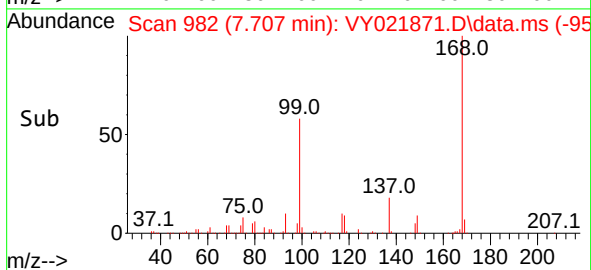
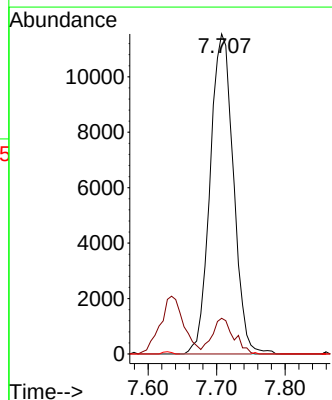
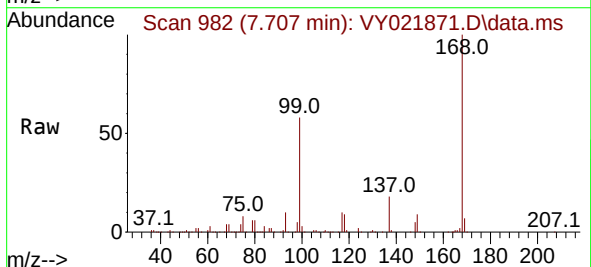
Instrument :
MSVOA_Y
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SU-03-41125

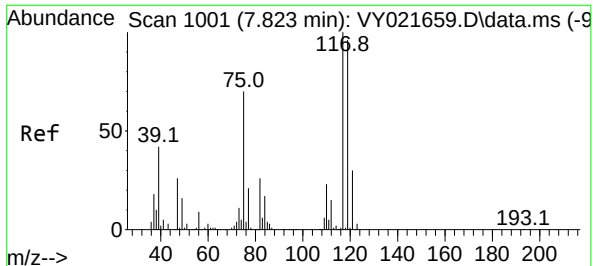
Tgt Ion:113 Resp: 192359
Ion Ratio Lower Upper
113 100
111 102.9 82.6 123.8
192 20.2 16.2 24.4



#36
1,1-Dichloropropene
Concen: 4.561 ug/l
RT: 7.707 min Scan# 982
Delta R.T. -0.128 min
Lab File: VY021871.D
Acq: 14 Apr 2025 15:50

Tgt Ion: 75 Resp: 27294
Ion Ratio Lower Upper
75 100
110 10.3 17.0 50.9#
77 0.0 24.8 37.2#

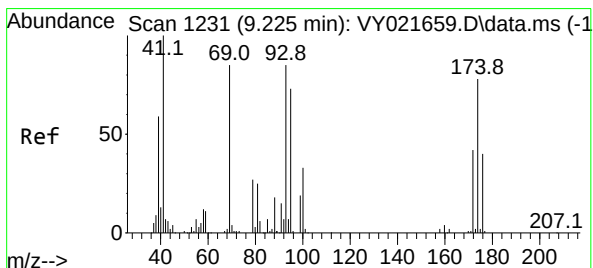
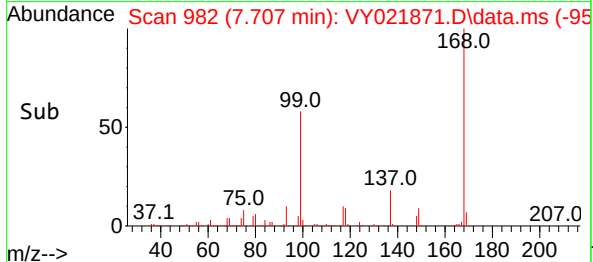
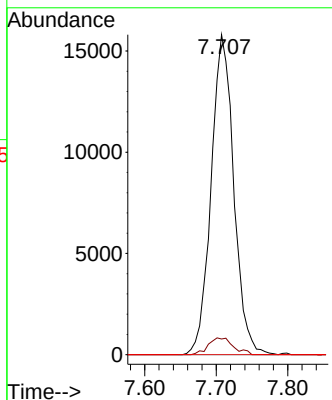
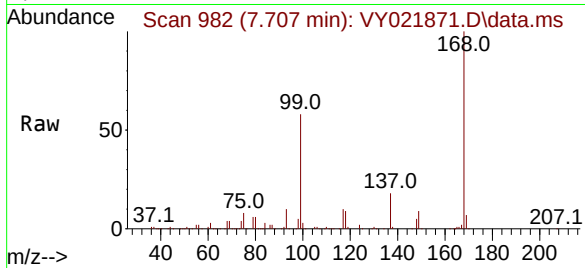




#38
Carbon Tetrachloride
Concen: 5.071 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.116 min
Lab File: VY021871.D
Acq: 14 Apr 2025 15:50

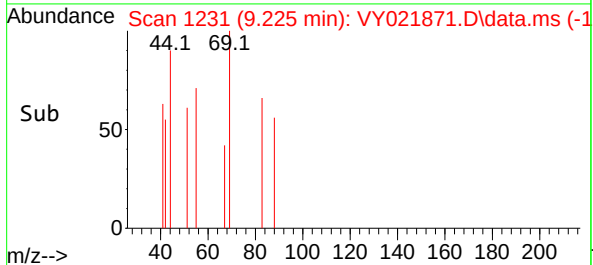
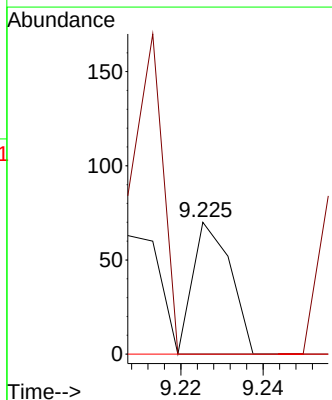
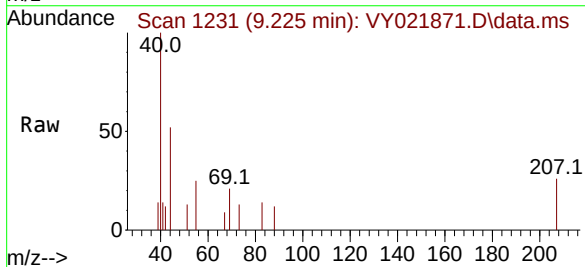
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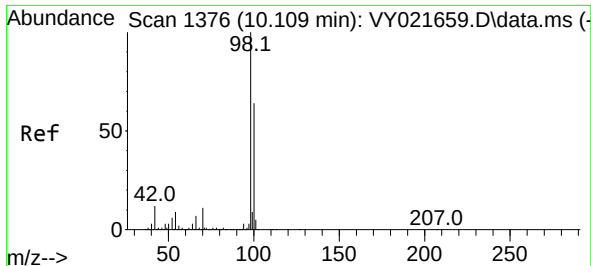
Tgt Ion:117 Resp: 34754
Ion Ratio Lower Upper
117 100
119 4.9 76.2 114.4#
121 0.0 24.2 36.4#



#49
1,4-Dioxane
Concen: 1.718 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.000 min
Lab File: VY021871.D
Acq: 14 Apr 2025 15:50

Tgt Ion: 88 Resp: 45
Ion Ratio Lower Upper
88 100
43 0.0 28.8 43.2#
58 0.0 59.4 89.2#

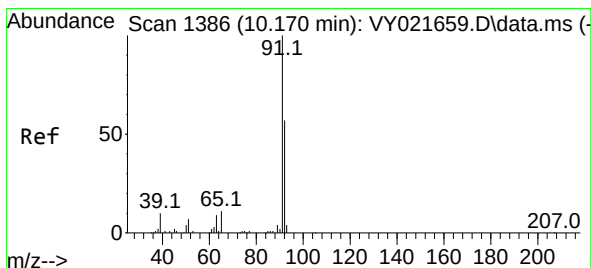
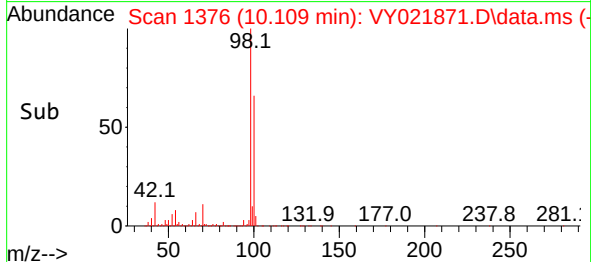
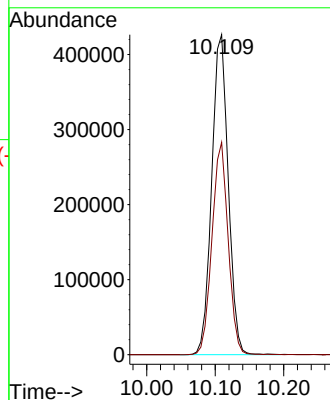
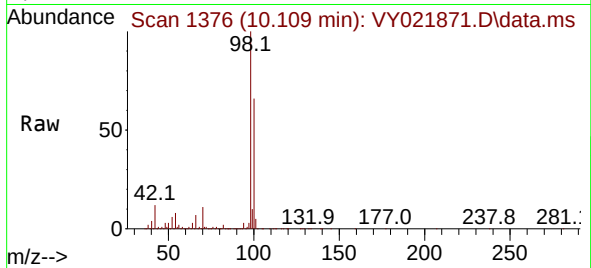




#50
Toluene-d8
Concen: 47.809 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.000 min
Lab File: VY021871.D
Acq: 14 Apr 2025 15:50

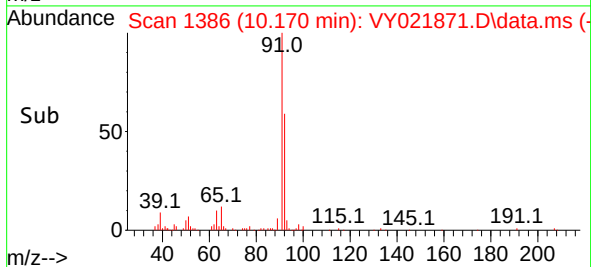
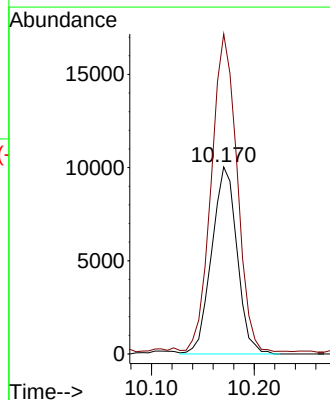
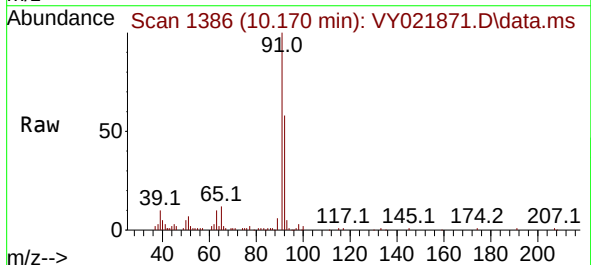
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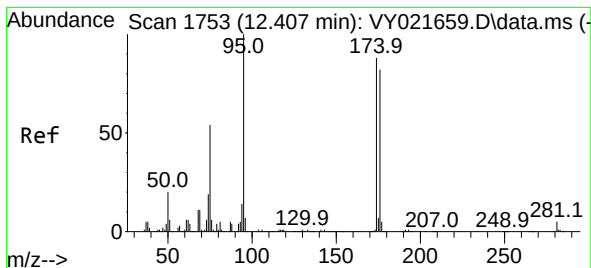
Tgt Ion: 98 Resp: 714513
Ion Ratio Lower Upper
98 100
100 65.1 52.1 78.1



#52
Toluene
Concen: 1.536 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY021871.D
Acq: 14 Apr 2025 15:50

Tgt Ion: 92 Resp: 17177
Ion Ratio Lower Upper
92 100
91 171.4 138.6 207.8

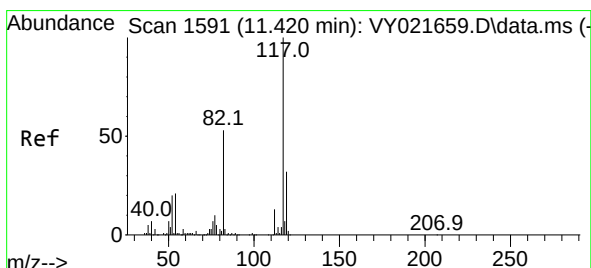
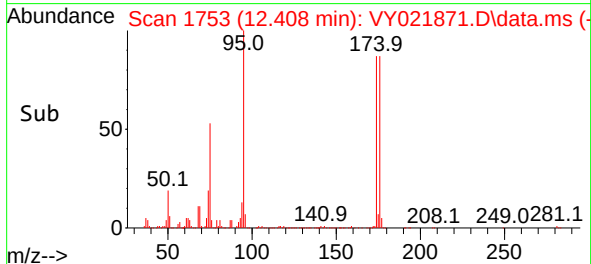
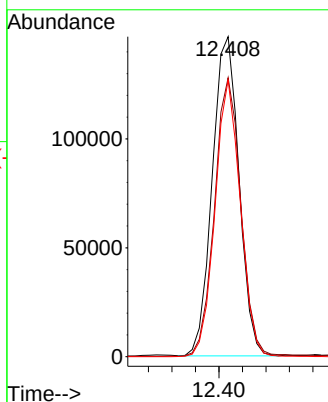
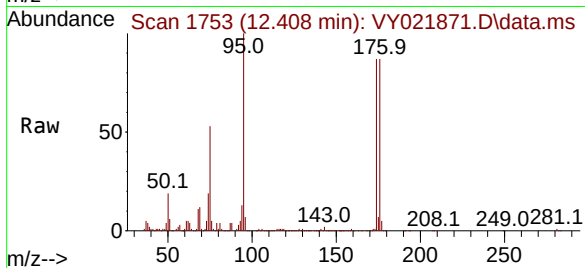




#62
4-Bromofluorobenzene
Concen: 45.782 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY021871.D
Acq: 14 Apr 2025 15:50

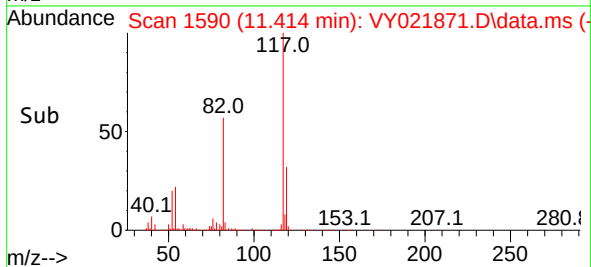
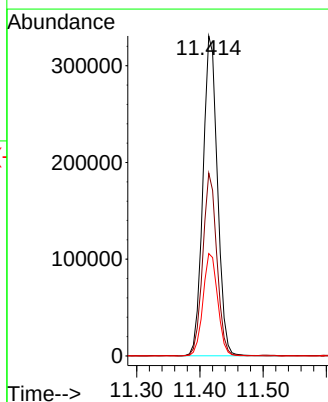
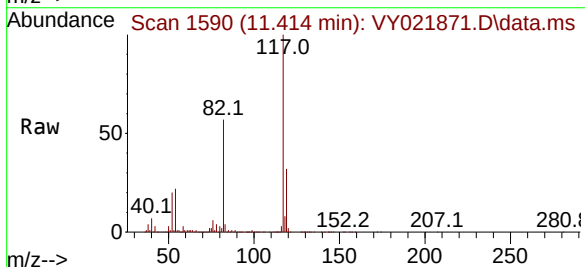
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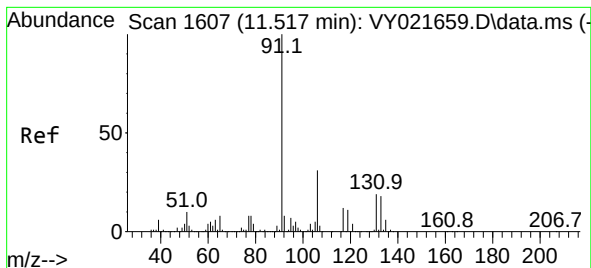
Tgt Ion: 95 Resp: 231433
Ion Ratio Lower Upper
95 100
174 86.6 0.0 170.8
176 82.1 0.0 162.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. -0.006 min
Lab File: VY021871.D
Acq: 14 Apr 2025 15:50

Tgt Ion: 117 Resp: 527173
Ion Ratio Lower Upper
117 100
82 57.1 42.8 64.2
119 32.0 25.7 38.5

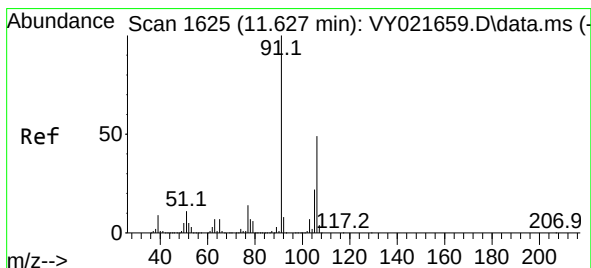
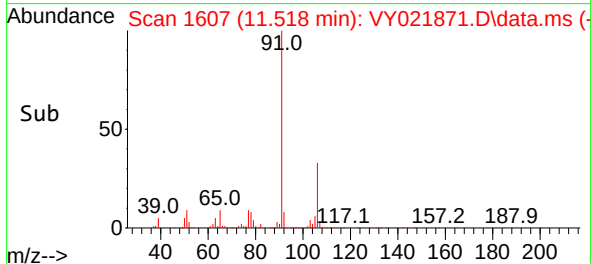
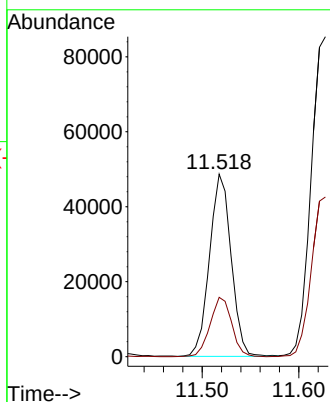
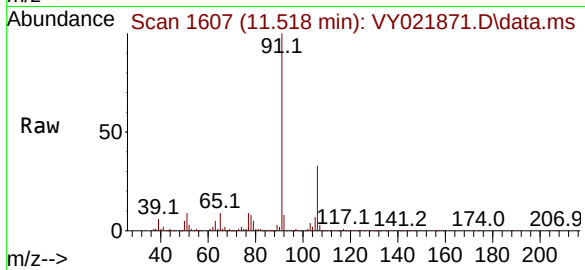




#67
Ethyl Benzene
Concen: 3.653 ug/l
RT: 11.518 min Scan# 1607
Delta R.T. 0.000 min
Lab File: VY021871.D
Acq: 14 Apr 2025 15:50

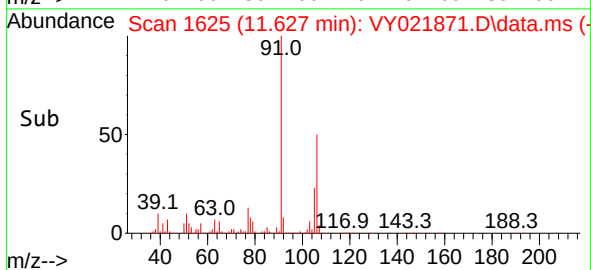
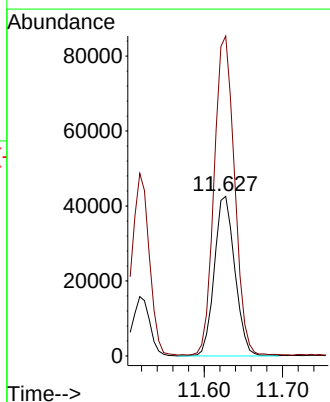
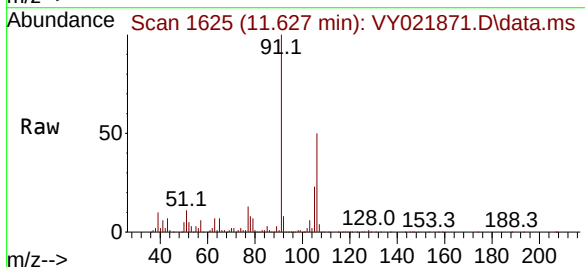
Instrument :
MSVOA_Y
ClientSampleId :
SU-03-41125

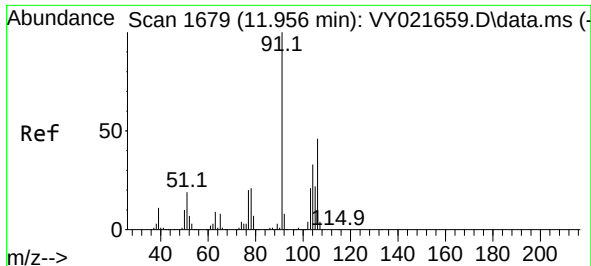
Tgt Ion: 91 Resp: 75706
Ion Ratio Lower Upper
91 100
106 32.5 24.6 36.8



#68
m/p-Xylenes
Concen: 9.791 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY021871.D
Acq: 14 Apr 2025 15:50

Tgt Ion: 106 Resp: 77691
Ion Ratio Lower Upper
106 100
91 199.1 162.4 243.6

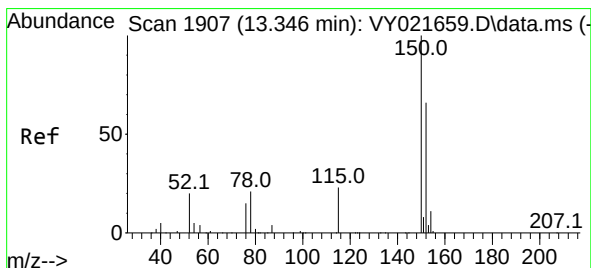
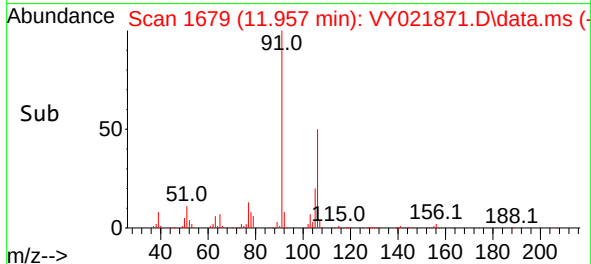
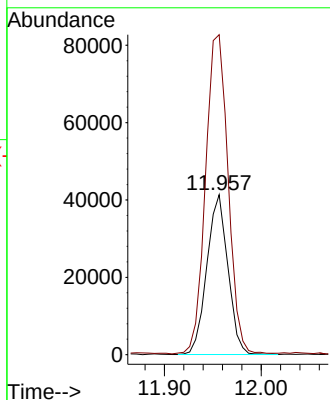
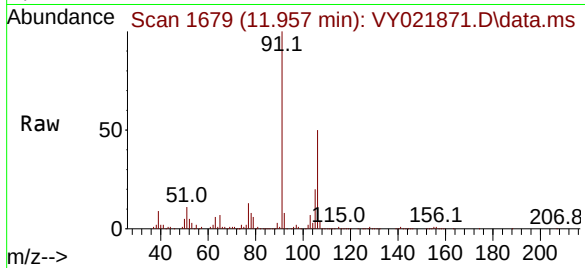




#69
o-Xylene
Concen: 8.519 ug/l
RT: 11.957 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY021871.D
Acq: 14 Apr 2025 15:50

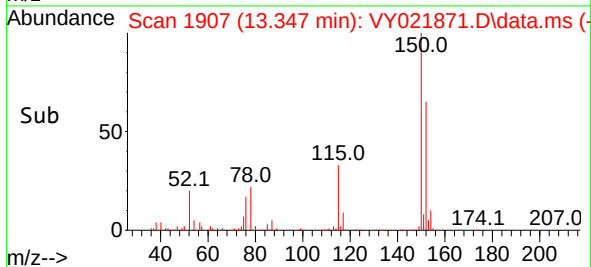
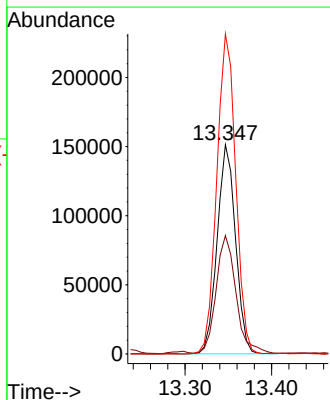
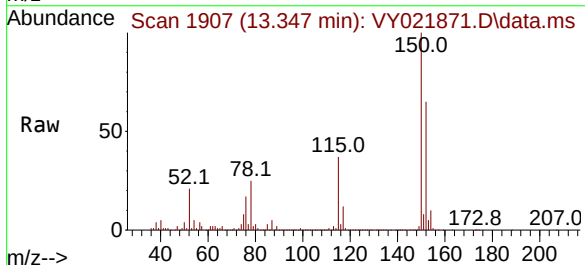
Instrument :
MSVOA_Y
ClientSampleId :
SU-03-41125

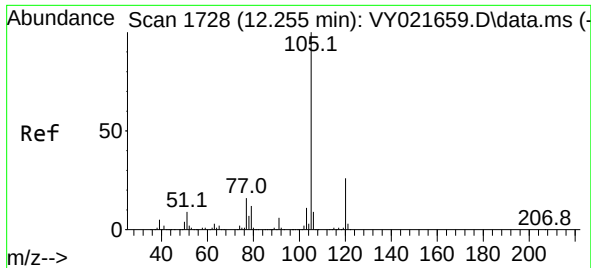
Tgt Ion:106 Resp: 62400
Ion Ratio Lower Upper
106 100
91 214.6 106.7 319.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY021871.D
Acq: 14 Apr 2025 15:50

Tgt Ion:152 Resp: 223281
Ion Ratio Lower Upper
152 100
115 60.1 28.8 86.5
150 157.1 0.0 348.4

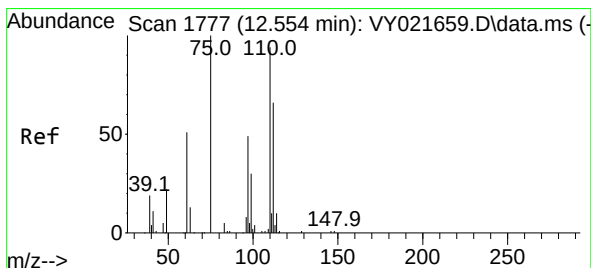
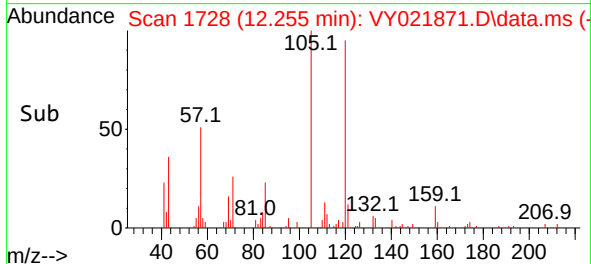
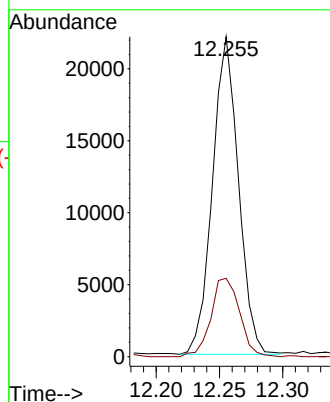
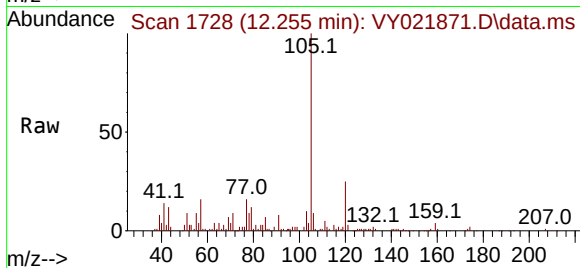




#73
Isopropylbenzene
Concen: 1.902 ug/l
RT: 12.255 min Scan# 1728
Delta R.T. 0.000 min
Lab File: VY021871.D
Acq: 14 Apr 2025 15:50

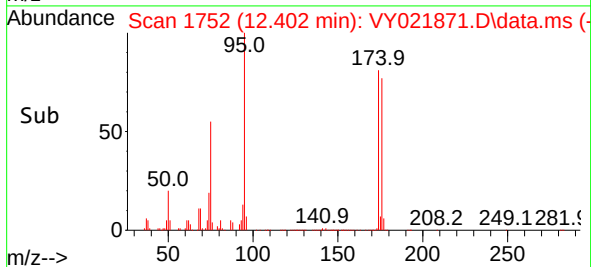
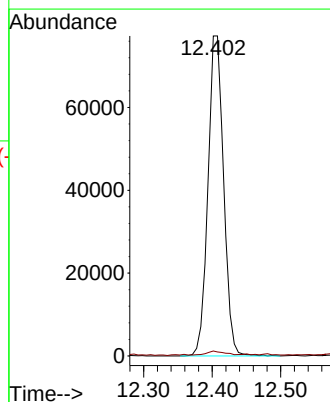
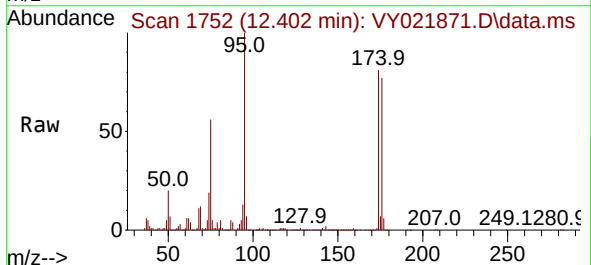
Instrument :
MSVOA_Y
ClientSampleId :
SU-03-41125

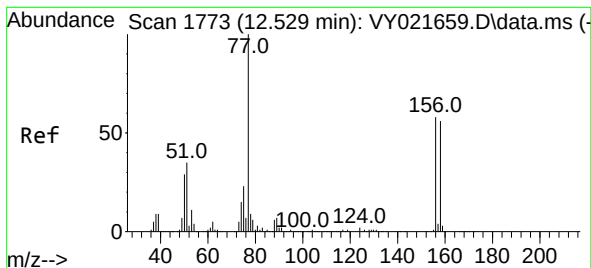
Tgt Ion:105 Resp: 31539
Ion Ratio Lower Upper
105 100
120 27.2 13.2 39.5



#76
1,2,3-Trichloropropane
Concen: 55.478 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.152 min
Lab File: VY021871.D
Acq: 14 Apr 2025 15:50

Tgt Ion: 75 Resp: 122789
Ion Ratio Lower Upper
75 100
77 1.3 0.0 0.0#





#77

Bromobenzene

Concen: 4.280 ug/l

RT: 12.627 min Scan# 1773

Delta R.T. 0.098 min

Lab File: VY021871.D

Acq: 14 Apr 2025 15:50

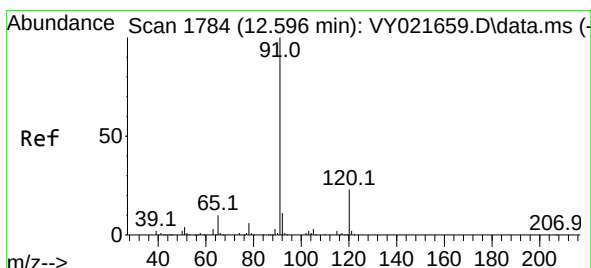
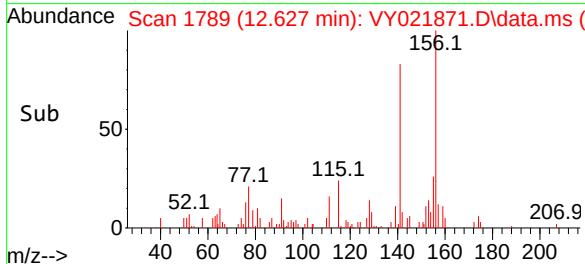
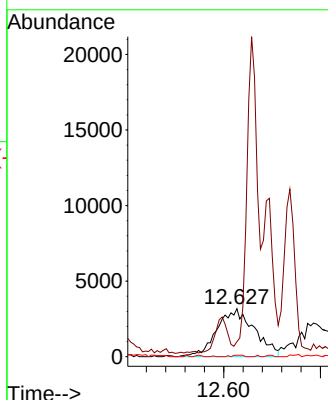
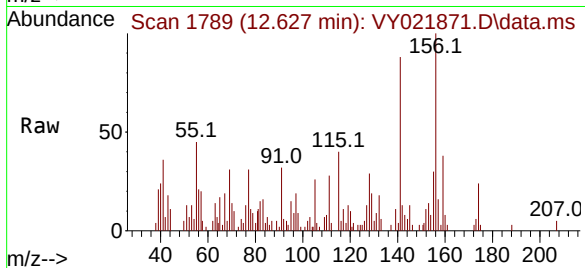
Instrument :

MSVOA_Y

ClientSampleId :

SU-03-41125

Tgt Ion:	156	Resp:	17044
Ion Ratio	Lower	Upper	
156	100		
77	0.0	92.8	278.3#
158	0.9	48.5	145.6#



#78

n-propylbenzene

Concen: 4.220 ug/l

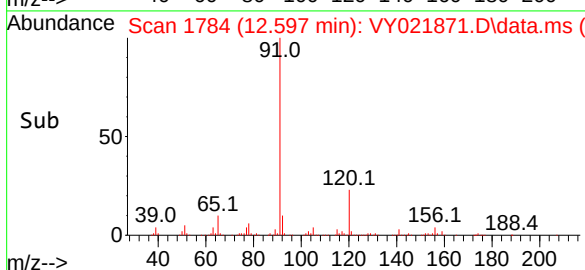
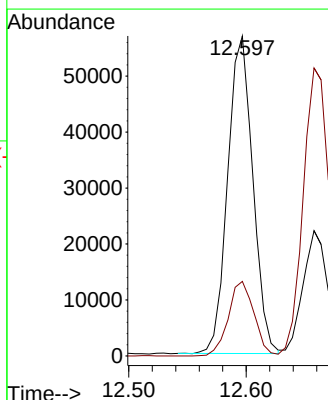
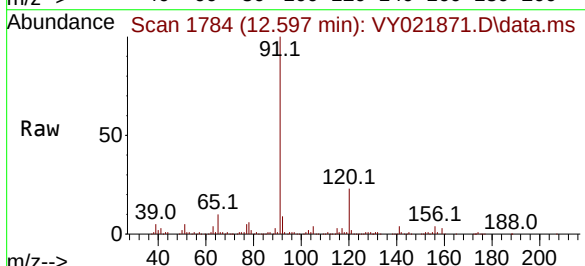
RT: 12.597 min Scan# 1784

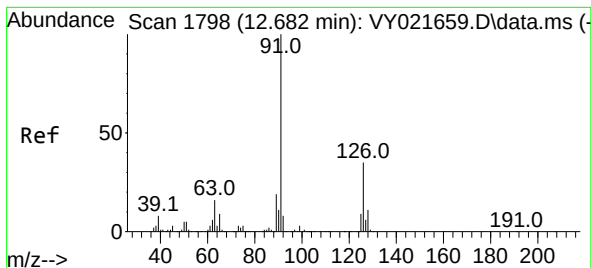
Delta R.T. 0.000 min

Lab File: VY021871.D

Acq: 14 Apr 2025 15:50

Tgt Ion:	91	Resp:	84129
Ion Ratio	Lower	Upper	
91	100		
120	24.1	11.3	33.9





#79

2-Chlorotoluene

Concen: 1.013 ug/l

RT: 12.688 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY021871.D

Acq: 14 Apr 2025 15:50

Instrument :

MSVOA_Y

ClientSampleId :

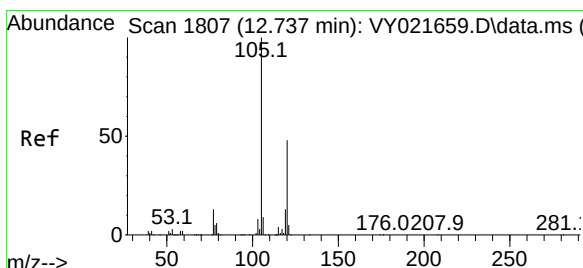
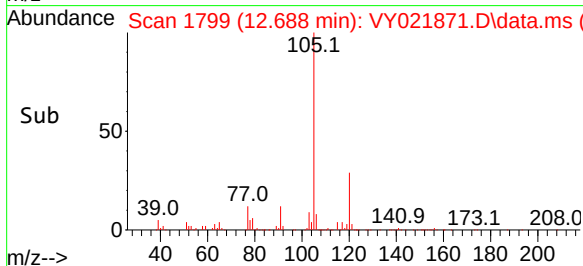
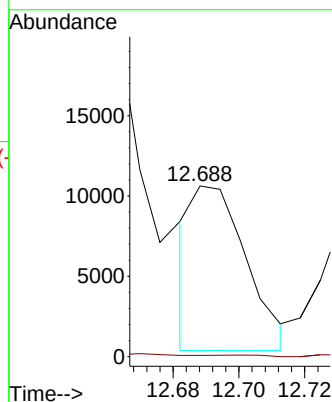
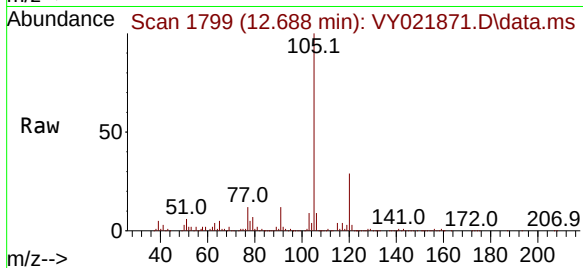
SU-03-41125

Tgt Ion: 91 Resp: 11728

Ion Ratio Lower Upper

91 100

126 0.9 17.3 52.0#



#80

1,3,5-Trimethylbenzene

Concen: 8.706 ug/l

RT: 12.737 min Scan# 1807

Delta R.T. 0.000 min

Lab File: VY021871.D

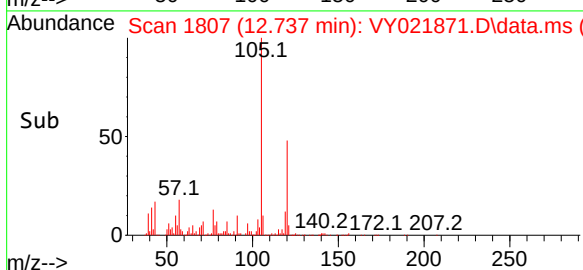
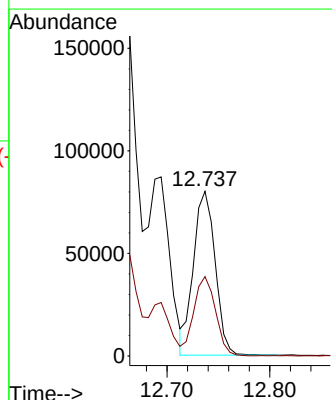
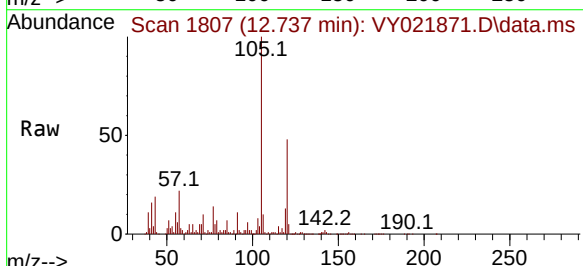
Acq: 14 Apr 2025 15:50

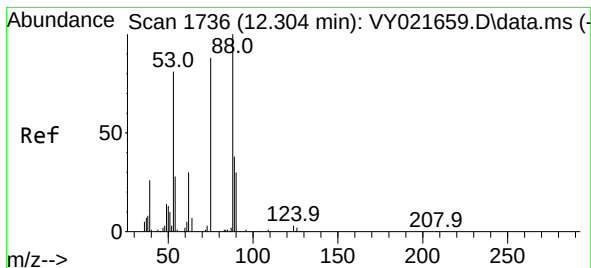
Tgt Ion: 105 Resp: 118004

Ion Ratio Lower Upper

105 100

120 48.3 24.5 73.5

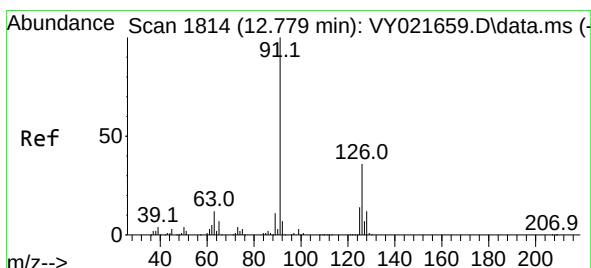
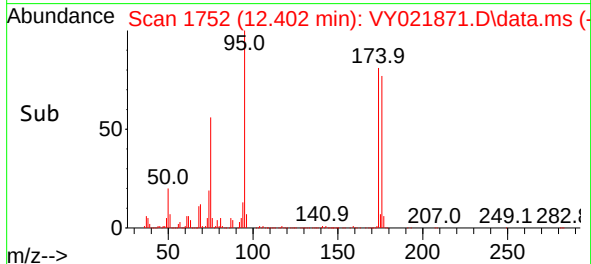
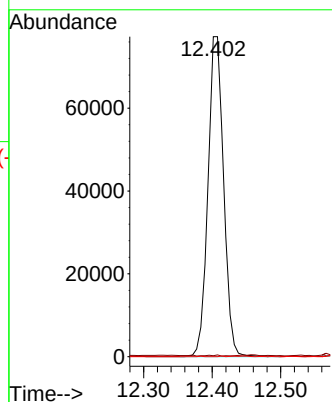
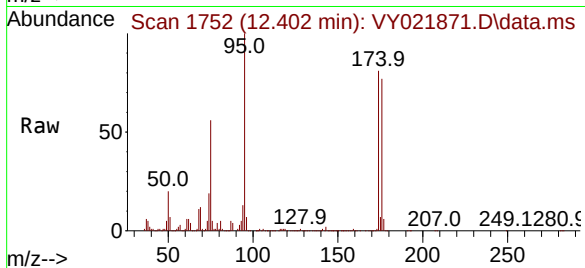




#81
trans-1,4-Dichloro-2-butene
Concen: 127.831 ug/l
RT: 12.402 min Scan# 11
Delta R.T. 0.098 min
Lab File: VY021871.D
Acq: 14 Apr 2025 15:50

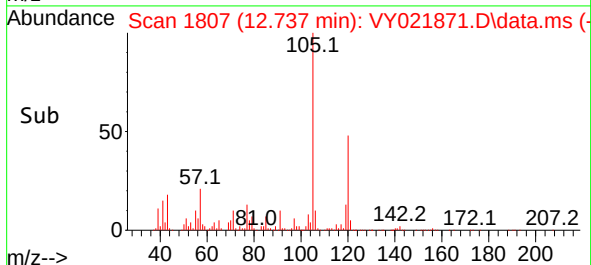
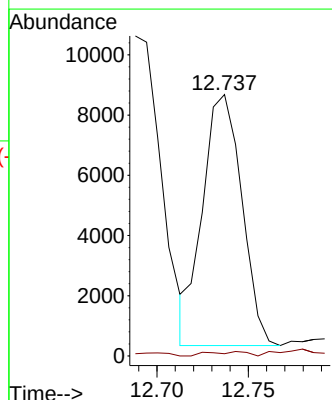
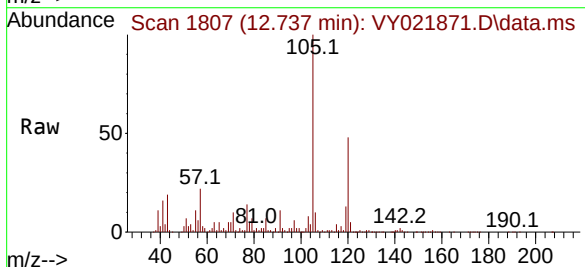
Instrument :
MSVOA_Y
ClientSampleId :
SU-03-41125

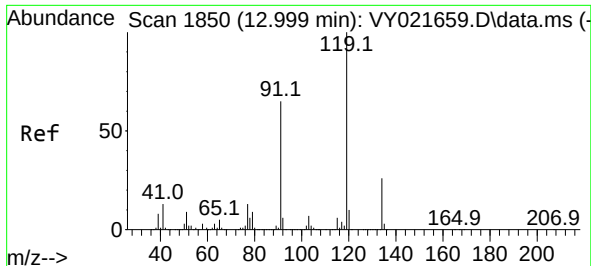
Tgt Ion: 75 Resp: 122789
Ion Ratio Lower Upper
75 100
53 0.0 76.1 114.1#
89 0.1 36.2 54.4#



#82
4-Chlorotoluene
Concen: 1.033 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. -0.042 min
Lab File: VY021871.D
Acq: 14 Apr 2025 15:50

Tgt Ion: 91 Resp: 12469
Ion Ratio Lower Upper
91 100
126 0.9 17.0 50.9#

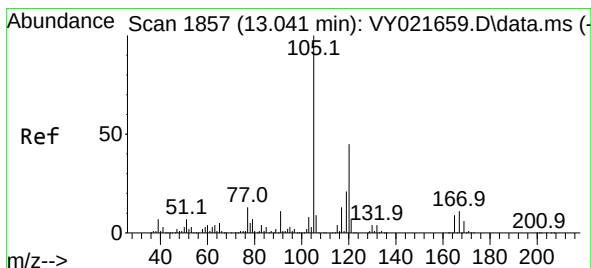
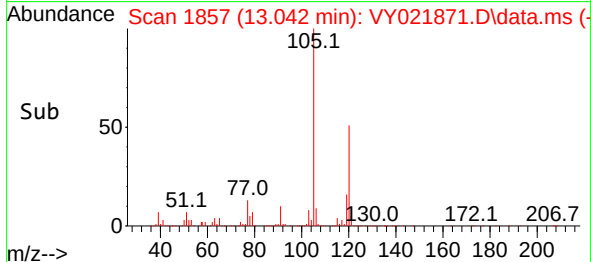
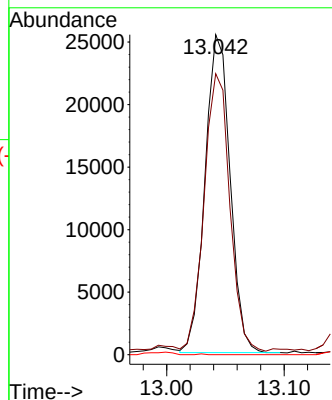
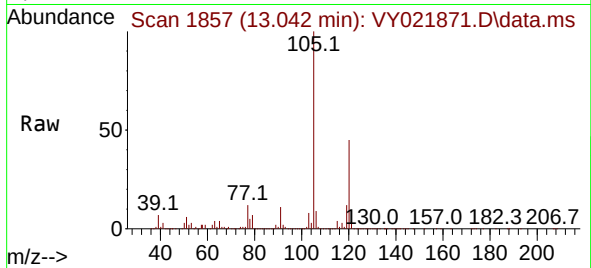




#83
 tert-Butylbenzene
 Concen: 3.126 ug/l
 RT: 13.042 min Scan# 1857
 Delta R.T. 0.043 min
 Lab File: VY021871.D
 Acq: 14 Apr 2025 15:50

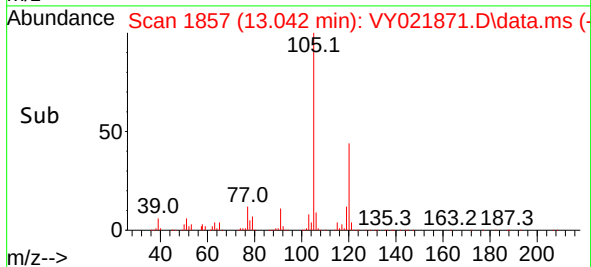
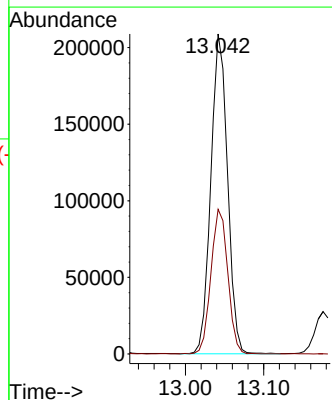
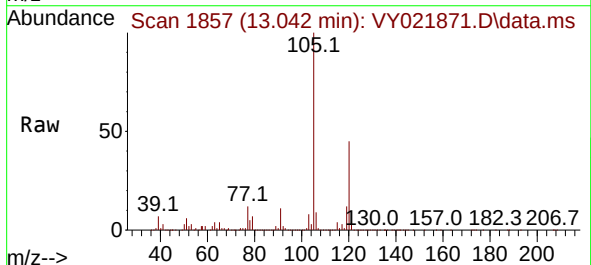
Instrument :
 MSVOA_Y
 ClientSampleId :
 SU-03-41125

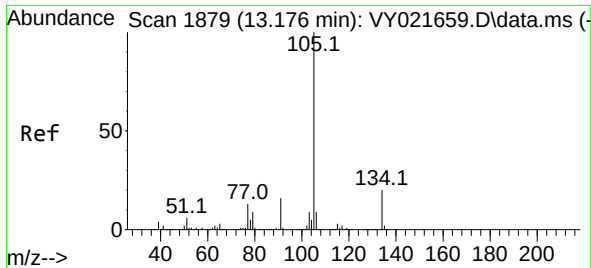
Tgt Ion:119 Resp: 37735
 Ion Ratio Lower Upper
 119 100
 91 89.0 32.6 97.7
 134 0.0 13.2 39.6#



#84
 1,2,4-Trimethylbenzene
 Concen: 23.012 ug/l
 RT: 13.042 min Scan# 1857
 Delta R.T. 0.000 min
 Lab File: VY021871.D
 Acq: 14 Apr 2025 15:50

Tgt Ion:105 Resp: 308266
 Ion Ratio Lower Upper
 105 100
 120 45.6 22.7 68.1

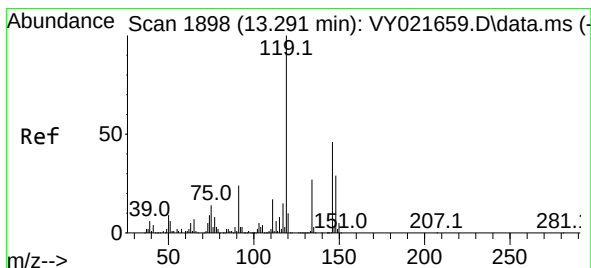
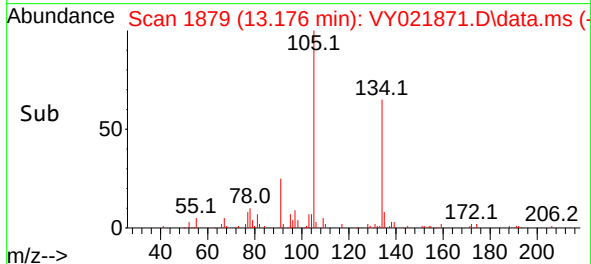
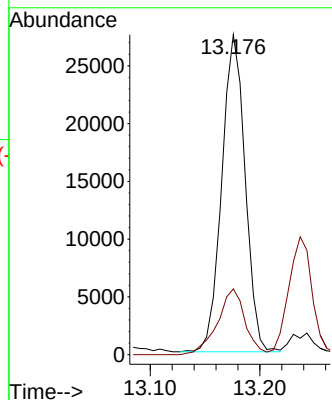
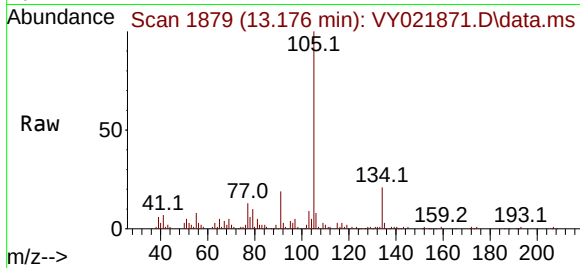




#85
 sec-Butylbenzene
 Concen: 2.305 ug/l
 RT: 13.176 min Scan# 1879
 Delta R.T. 0.000 min
 Lab File: VY021871.D
 Acq: 14 Apr 2025 15:50

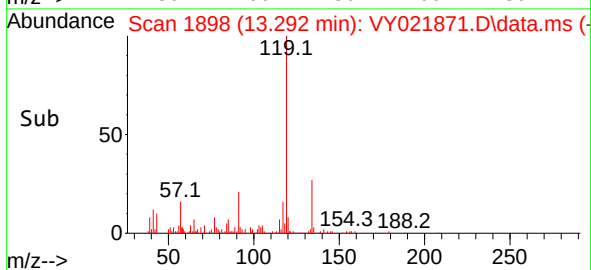
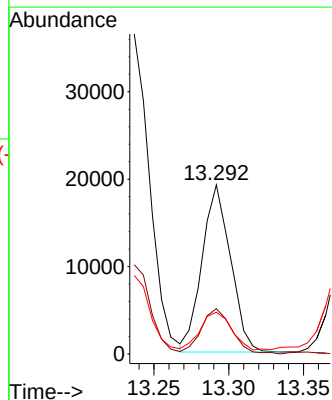
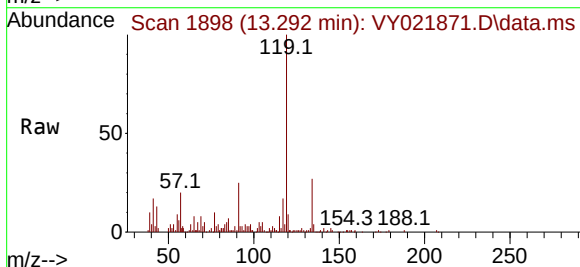
Instrument :
 MSVOA_Y
 ClientSampleId :
 SU-03-41125

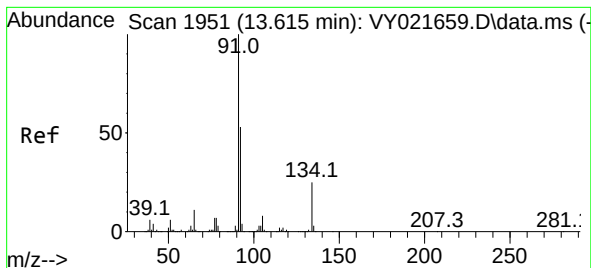
Tgt Ion:105 Resp: 40665
 Ion Ratio Lower Upper
 105 100
 134 24.4 10.1 30.1



#86
 p-Isopropyltoluene
 Concen: 1.743 ug/l
 RT: 13.292 min Scan# 1898
 Delta R.T. 0.000 min
 Lab File: VY021871.D
 Acq: 14 Apr 2025 15:50

Tgt Ion:119 Resp: 25411
 Ion Ratio Lower Upper
 119 100
 134 29.0 13.2 39.5
 91 23.9 12.0 36.0





#89

n-Butylbenzene

Concen: 2.416 ug/l

RT: 13.615 min Scan# 1951

Delta R.T. 0.000 min

Lab File: VY021871.D

Acq: 14 Apr 2025 15:50

Instrument :

MSVOA_Y

ClientSampleId :

SU-03-41125

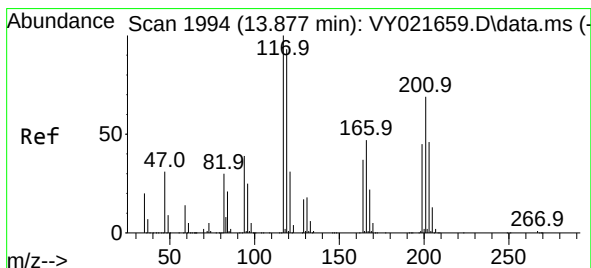
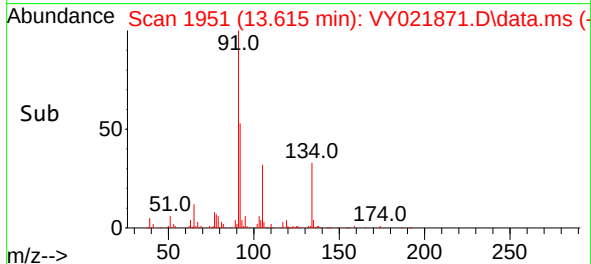
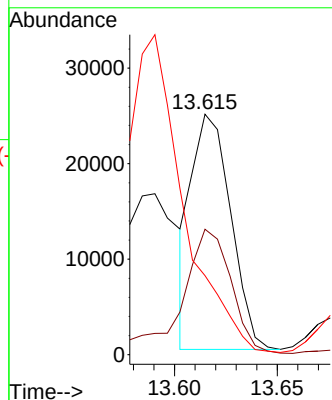
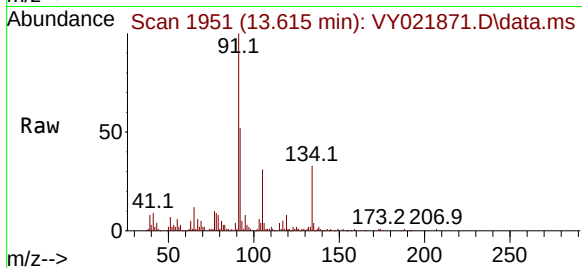
Tgt Ion: 91 Resp: 32577

Ion Ratio Lower Upper

91 100

92 66.9 26.4 79.2

134 0.0 12.8 38.4#



#90

Hexachloroethane

Concen: 3.979 ug/l

RT: 13.889 min Scan# 1996

Delta R.T. 0.012 min

Lab File: VY021871.D

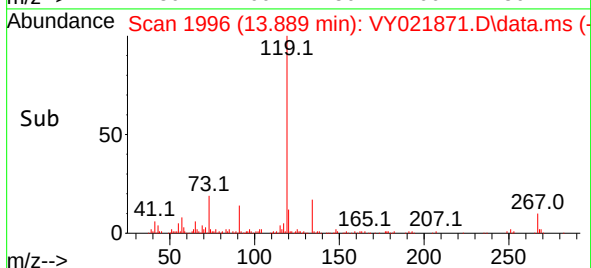
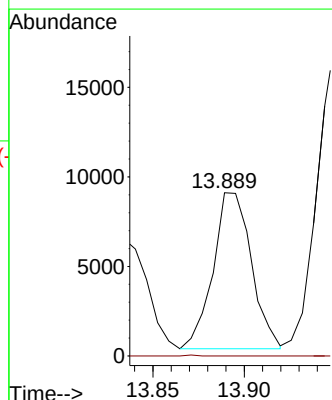
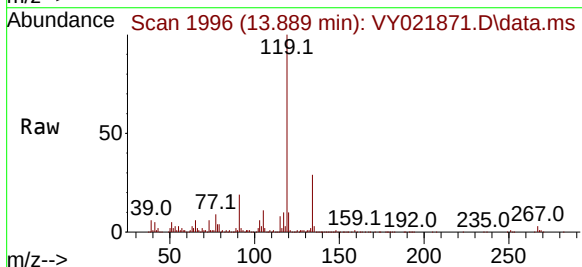
Acq: 14 Apr 2025 15:50

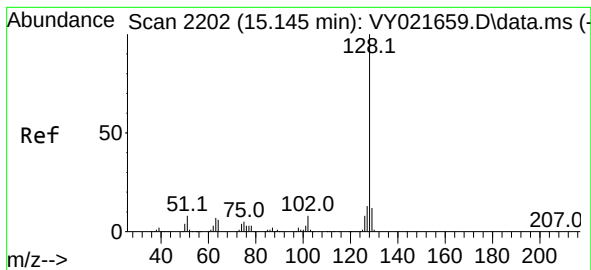
Tgt Ion: 117 Resp: 12714

Ion Ratio Lower Upper

117 100

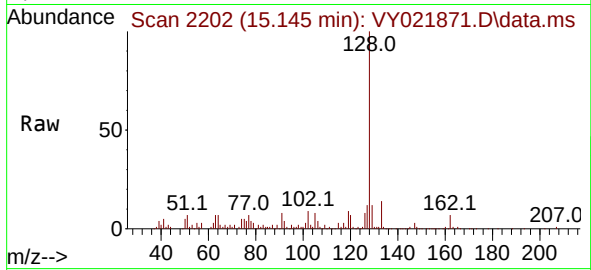
201 0.2 37.4 112.1#





#95
Naphthalene
Concen: 9.886 ug/l
RT: 15.145 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY021871.D
Acq: 14 Apr 2025 15:50

Instrument :
MSVOA_Y
ClientSampleId :
SU-03-41125



Tgt Ion:128 Resp: 60686
Ion Ratio Lower Upper
128 100
127 14.1 10.8 16.2
129 13.9 8.8 13.2#

