

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041425\
 Data File : VY021878.D
 Acq On : 14 Apr 2025 18:34
 Operator : SY/MD
 Sample : Q1785-01
 Misc : 5.62g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 HR-02-041125

Quant Time: Apr 14 23:35:05 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)

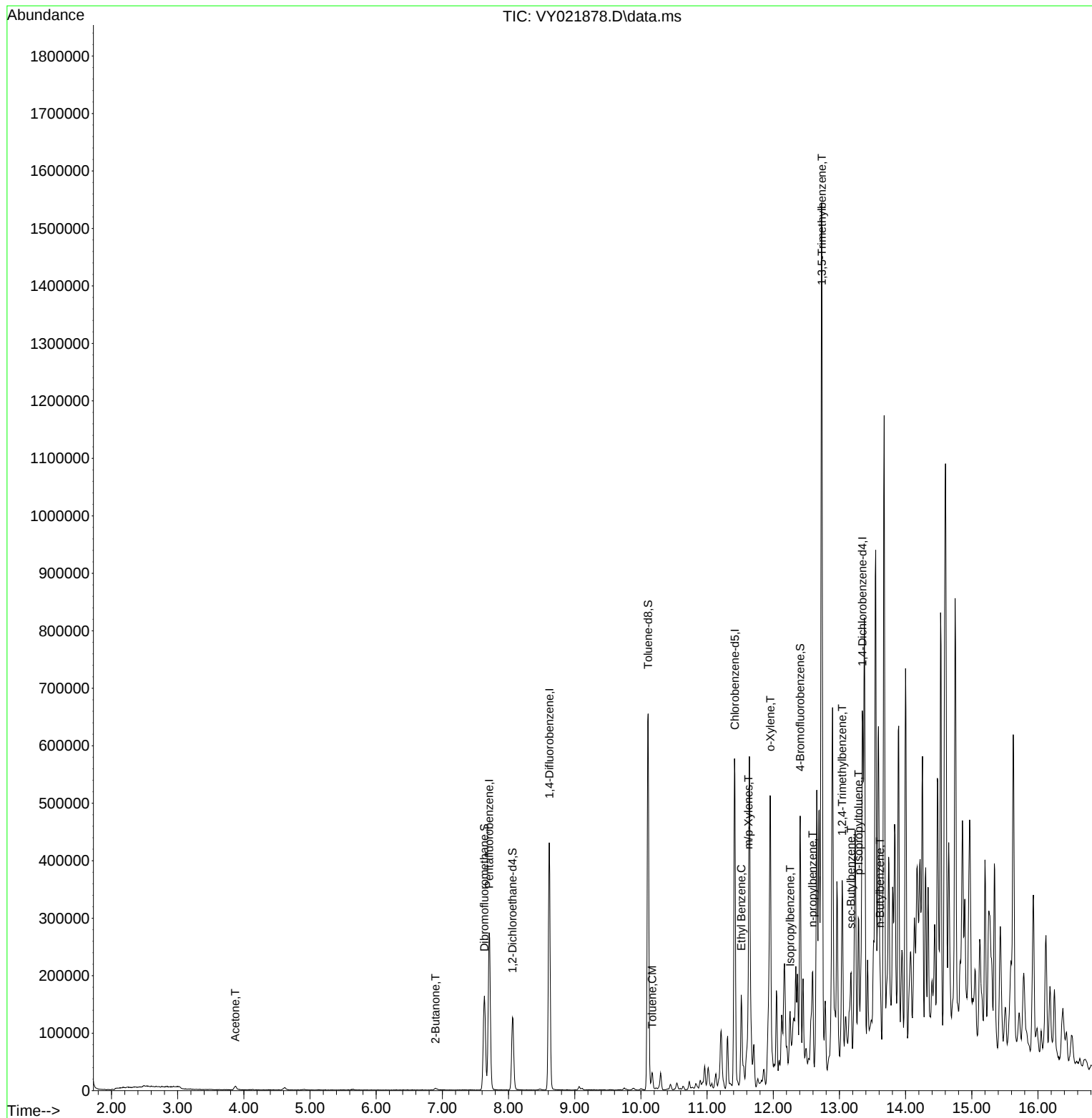
Internal Standards						
1) Pentafluorobenzene	7.707	168	206616	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	353497	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	302182	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	120139	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	100066	44.700	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	89.400%		
35) Dibromofluoromethane	7.634	113	115795	50.498	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	101.000%		
50) Toluene-d8	10.109	98	415069	47.580	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	95.160%		
62) 4-Bromofluorobenzene	12.408	95	131428	44.541	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	89.080%		
Target Compounds						Qvalue
16) Acetone	3.873	43	10826	23.629	ug/l	91
25) 2-Butanone	6.897	43	5350	8.176	ug/l	93
52) Toluene	10.170	92	11569	1.773	ug/l	99
67) Ethyl Benzene	11.518	91	97864	8.239	ug/l	99
68) m/p-Xylenes	11.627	106	44783	9.846	ug/l	99
69) o-Xylene	11.957	106	115789	27.578	ug/l	98
73) Isopropylbenzene	12.255	105	49304	5.525	ug/l	100
78) n-propylbenzene	12.597	91	126963	11.835	ug/l	99
80) 1,3,5-Trimethylbenzene	12.737	105	251400	34.472	ug/l	100
84) 1,2,4-Trimethylbenzene	13.042	105	152051	21.095	ug/l	99
85) sec-Butylbenzene	13.176	105	62914	6.628	ug/l	89
86) p-Isopropyltoluene	13.292	119	50622	6.452	ug/l	98
89) n-Butylbenzene	13.615	91	40358	5.562	ug/l #	66

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

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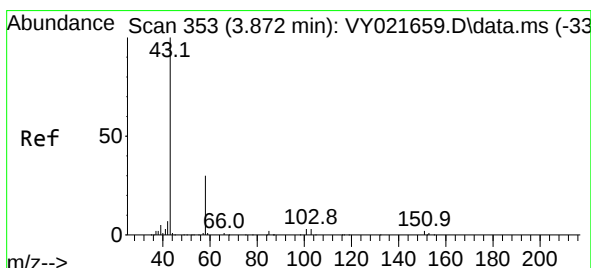
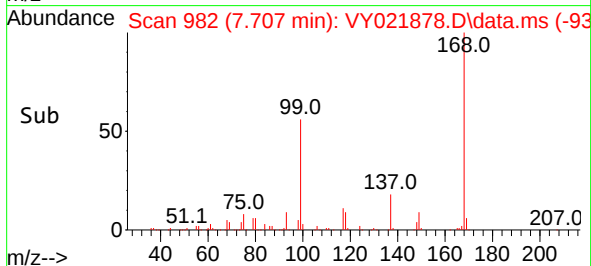
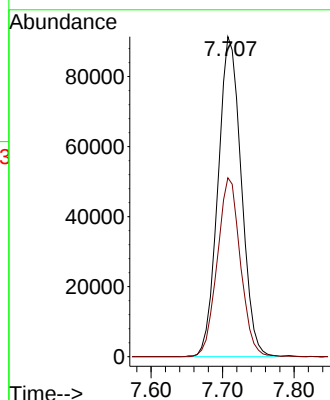
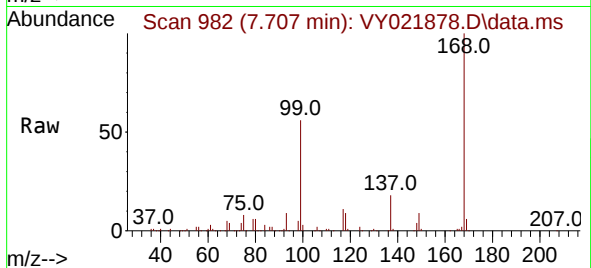




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY021878.D
Acq: 14 Apr 2025 18:34

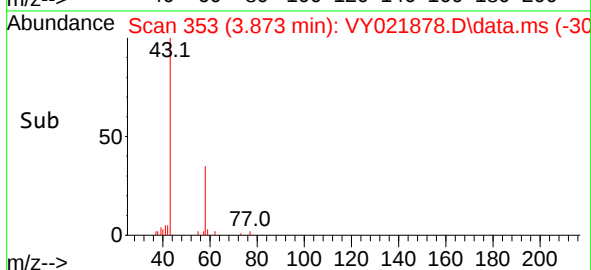
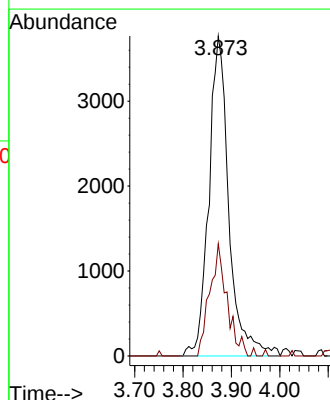
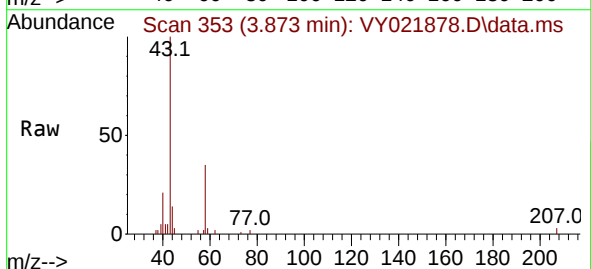
Instrument :
MSVOA_Y
ClientSampleId :
HR-02-041125

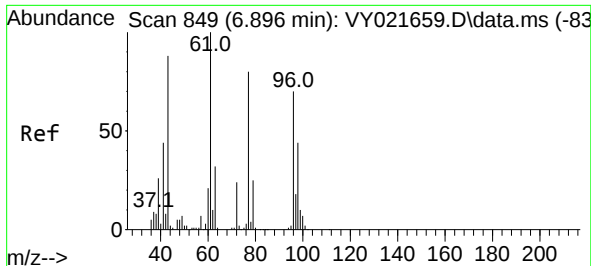
Tgt Ion:168 Resp: 206616
Ion Ratio Lower Upper
168 100
99 55.9 46.7 70.1



#16
Acetone
Concen: 23.629 ug/l
RT: 3.873 min Scan# 353
Delta R.T. 0.000 min
Lab File: VY021878.D
Acq: 14 Apr 2025 18:34

Tgt Ion: 43 Resp: 10826
Ion Ratio Lower Upper
43 100
58 35.1 24.2 36.4

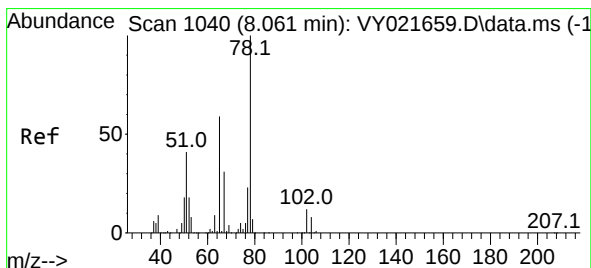
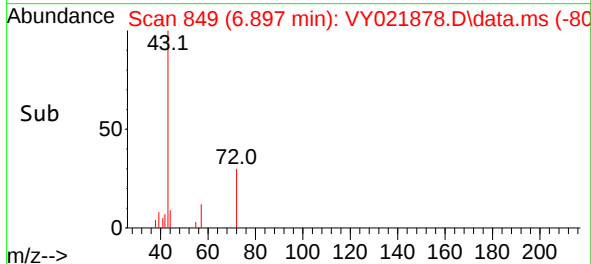
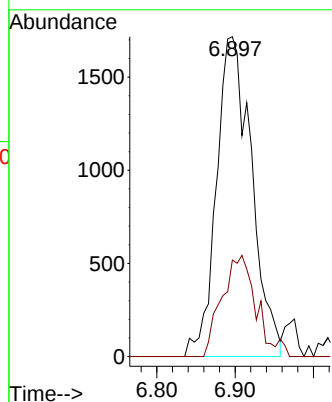
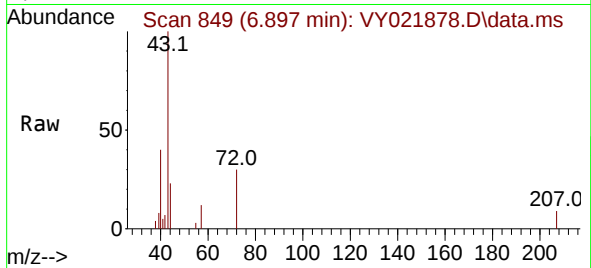




#25
2-Butanone
Concen: 8.176 ug/l
RT: 6.897 min Scan# 849
Delta R.T. 0.000 min
Lab File: VY021878.D
Acq: 14 Apr 2025 18:34

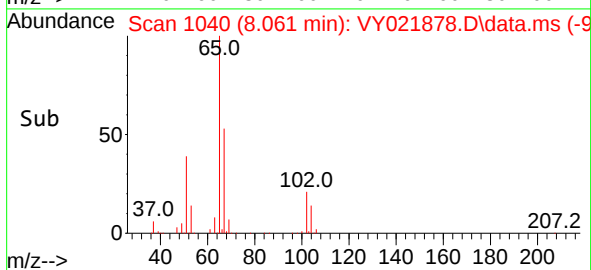
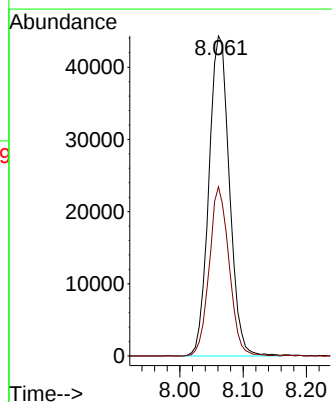
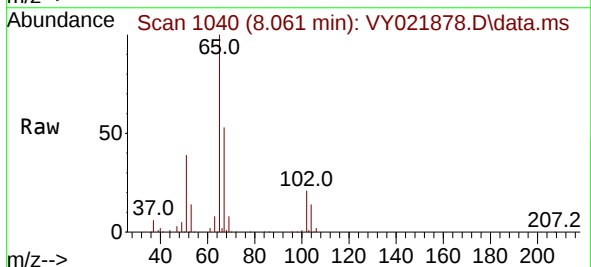
Instrument :
MSVOA_Y
ClientSampleId :
HR-02-041125

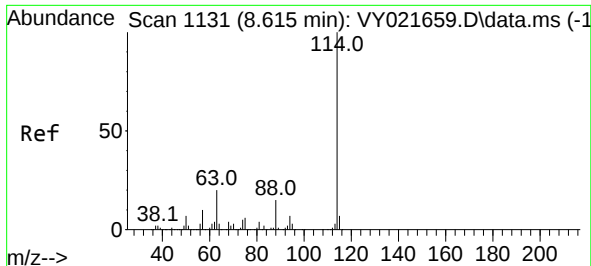
Tgt Ion: 43 Resp: 5350
Ion Ratio Lower Upper
43 100
72 30.2 21.4 32.2



#33
1,2-Dichloroethane-d4
Concen: 44.700 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY021878.D
Acq: 14 Apr 2025 18:34

Tgt Ion: 65 Resp: 100066
Ion Ratio Lower Upper
65 100
67 50.9 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: VY021878.D

Acq: 14 Apr 2025 18:34

Instrument :

MSVOA_Y

ClientSampleId :

HR-02-041125

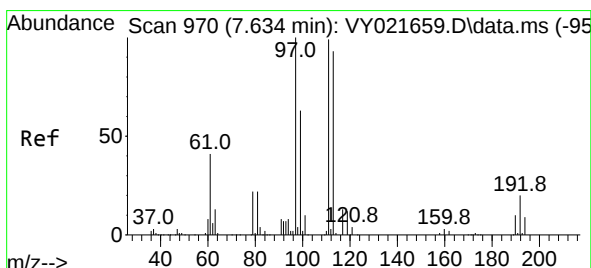
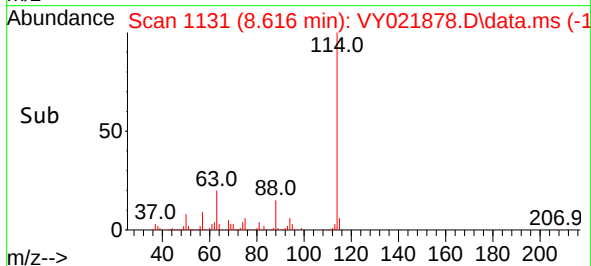
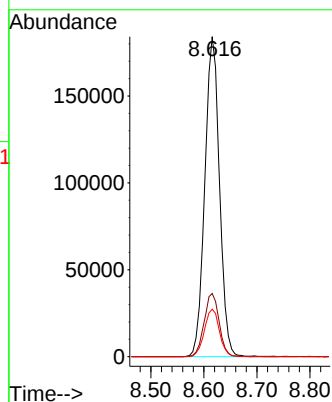
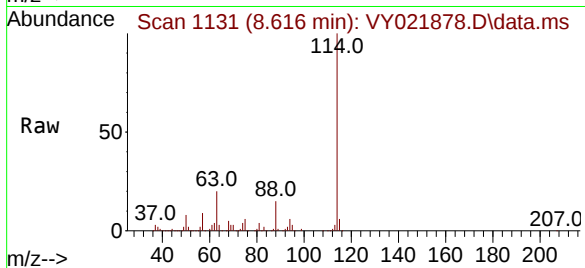
Tgt Ion:114 Resp: 353497

Ion Ratio Lower Upper

114 100

63 19.7 0.0 40.2

88 14.8 0.0 29.8



#35

Dibromofluoromethane

Concen: 50.498 ug/l

RT: 7.634 min Scan# 970

Delta R.T. 0.000 min

Lab File: VY021878.D

Acq: 14 Apr 2025 18:34

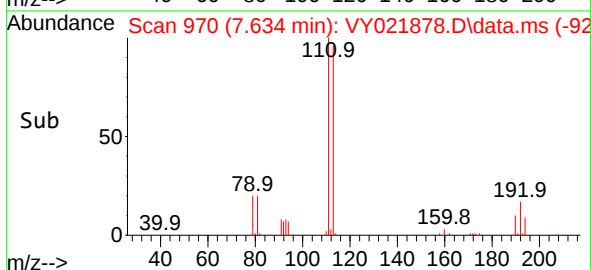
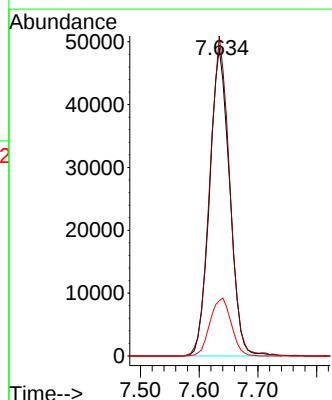
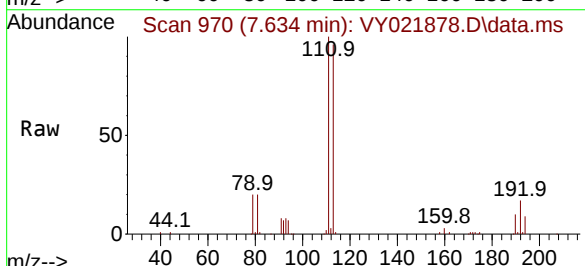
Tgt Ion:113 Resp: 115795

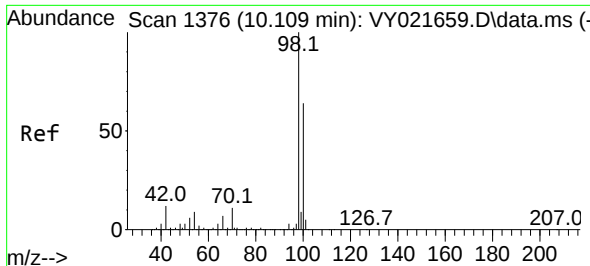
Ion Ratio Lower Upper

113 100

111 103.0 82.6 123.8

192 19.9 16.2 24.4

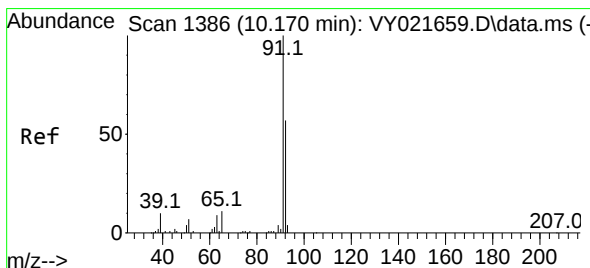
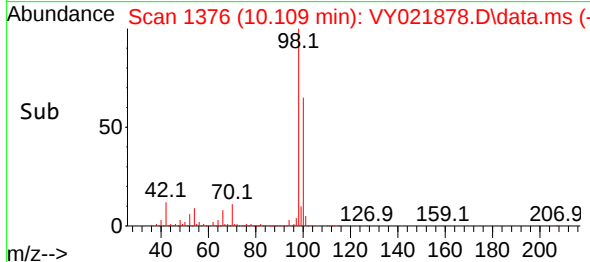
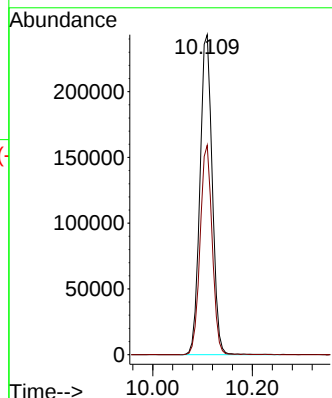
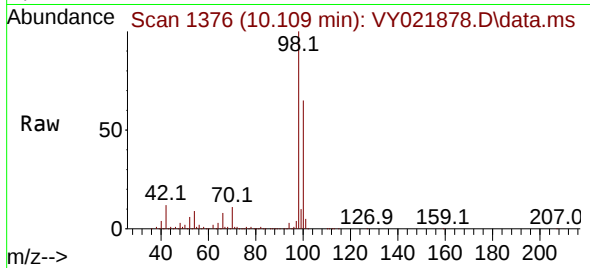




#50
Toluene-d8
Concen: 47.580 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.000 min
Lab File: VY021878.D
Acq: 14 Apr 2025 18:34

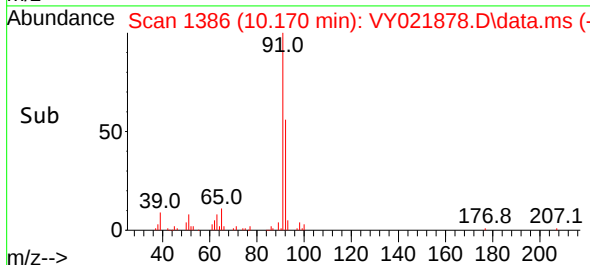
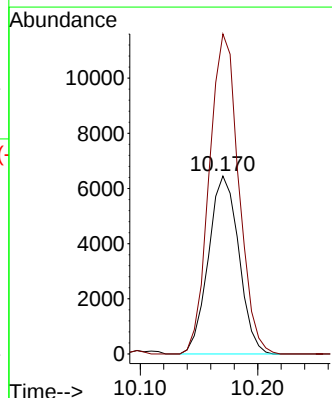
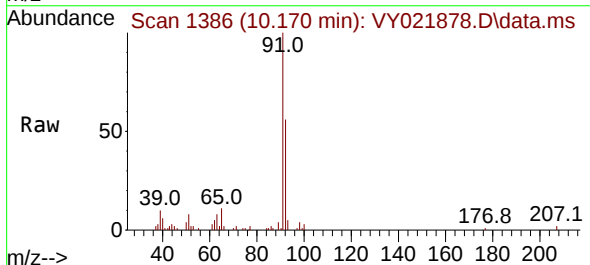
Instrument :
MSVOA_Y
ClientSampleId :
HR-02-041125

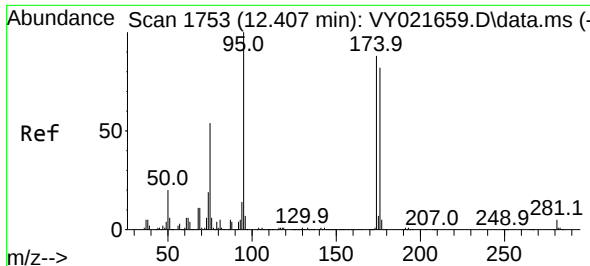
Tgt Ion: 98 Resp: 415069
Ion Ratio Lower Upper
98 100
100 64.4 52.1 78.1



#52
Toluene
Concen: 1.773 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY021878.D
Acq: 14 Apr 2025 18:34

Tgt Ion: 92 Resp: 11569
Ion Ratio Lower Upper
92 100
91 174.7 138.6 207.8

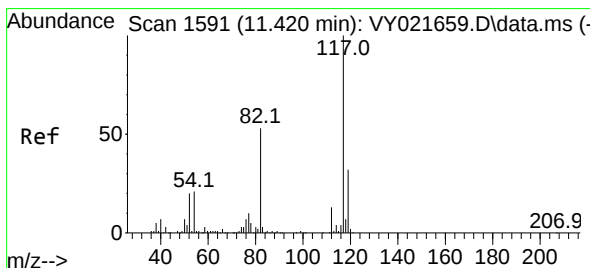
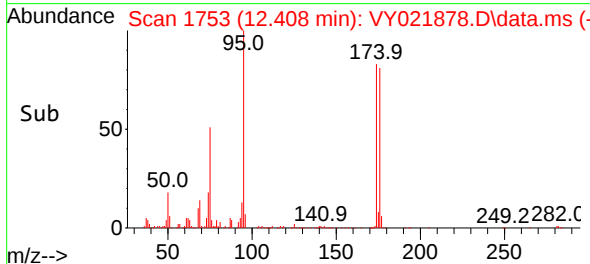
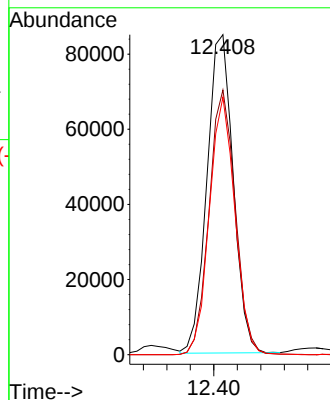
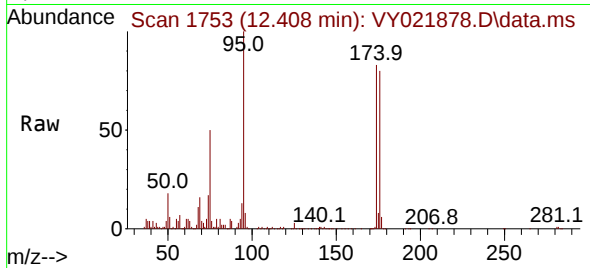




#62
4-Bromofluorobenzene
Concen: 44.541 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY021878.D
Acq: 14 Apr 2025 18:34

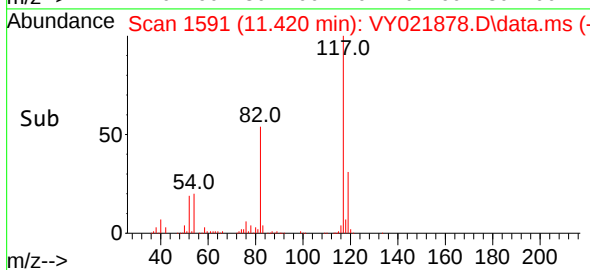
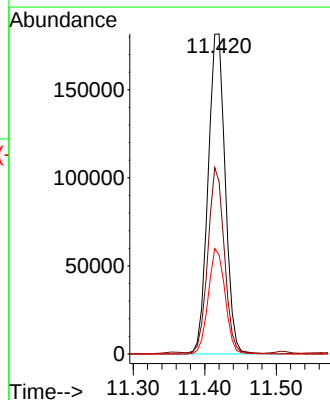
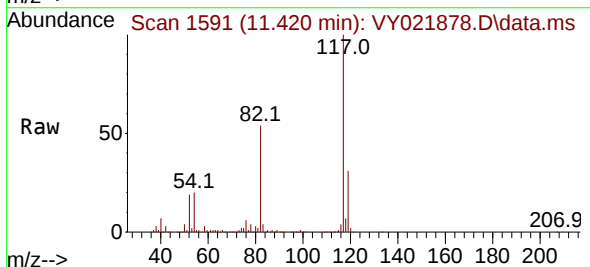
Instrument :
MSVOA_Y
ClientSampleId :
HR-02-041125

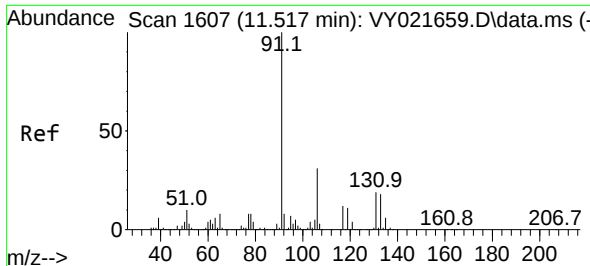
Tgt Ion: 95 Resp: 131428
Ion Ratio Lower Upper
95 100
174 83.0 0.0 170.8
176 79.1 0.0 162.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1591
Delta R.T. 0.000 min
Lab File: VY021878.D
Acq: 14 Apr 2025 18:34

Tgt Ion: 117 Resp: 302182
Ion Ratio Lower Upper
117 100
82 53.3 42.8 64.2
119 31.0 25.7 38.5





#67

Ethyl Benzene

Concen: 8.239 ug/l

RT: 11.518 min Scan# 1607

Delta R.T. 0.000 min

Lab File: VY021878.D

Acq: 14 Apr 2025 18:34

Instrument :

MSVOA_Y

ClientSampleId :

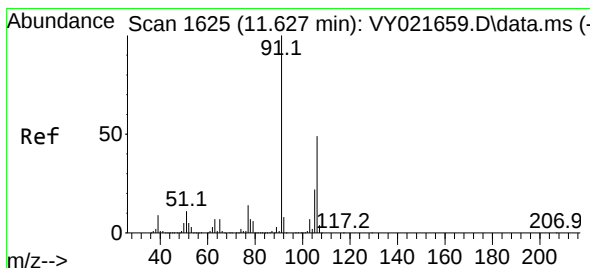
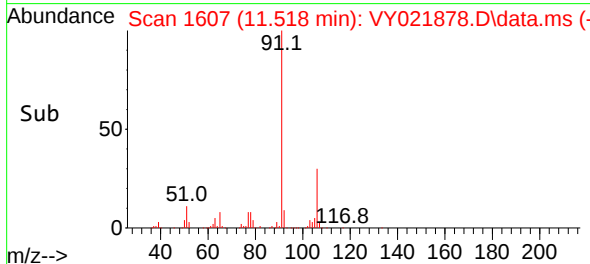
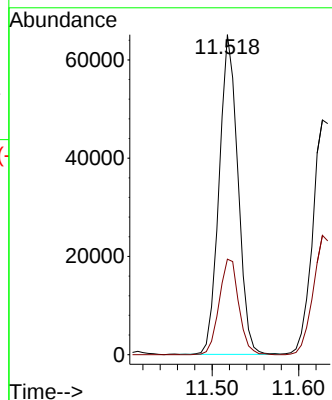
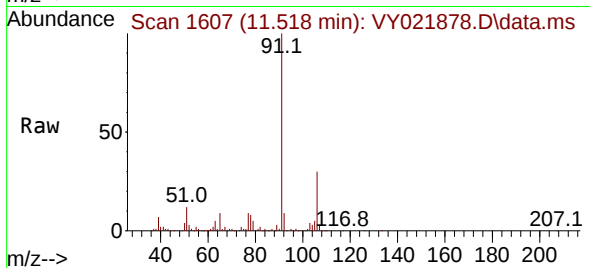
HR-02-041125

Tgt Ion: 91 Resp: 97864

Ion Ratio Lower Upper

91 100

106 29.9 24.6 36.8



#68

m/p-Xylenes

Concen: 9.846 ug/l

RT: 11.627 min Scan# 1625

Delta R.T. 0.000 min

Lab File: VY021878.D

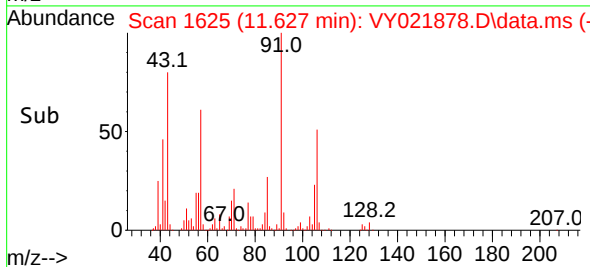
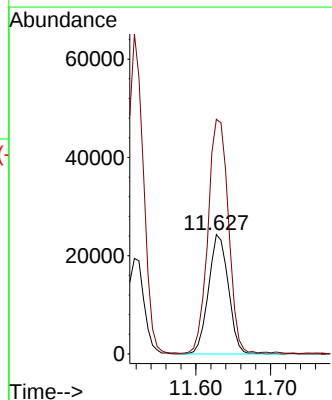
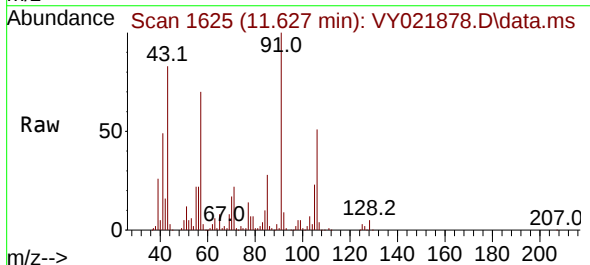
Acq: 14 Apr 2025 18:34

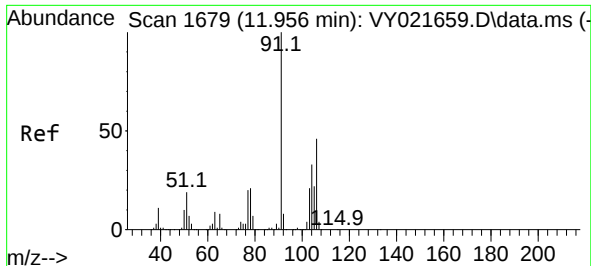
Tgt Ion: 106 Resp: 44783

Ion Ratio Lower Upper

106 100

91 201.6 162.4 243.6

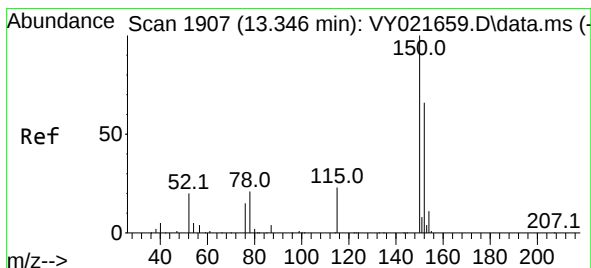
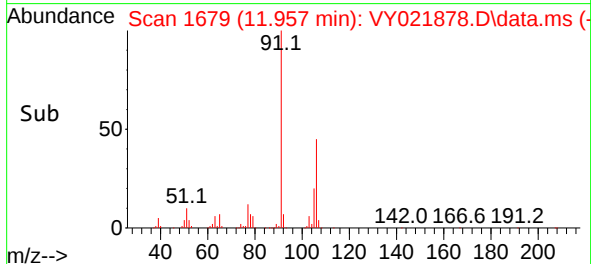
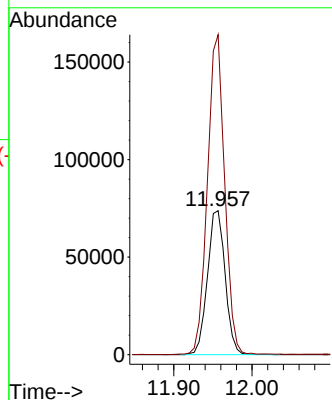
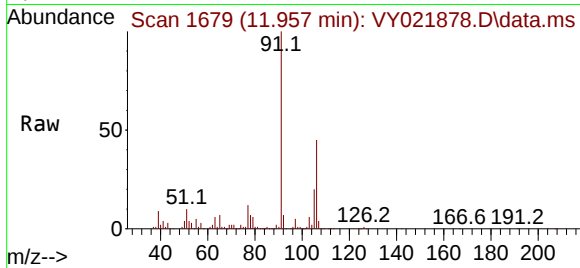




#69
o-Xylene
Concen: 27.578 ug/l
RT: 11.957 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY021878.D
Acq: 14 Apr 2025 18:34

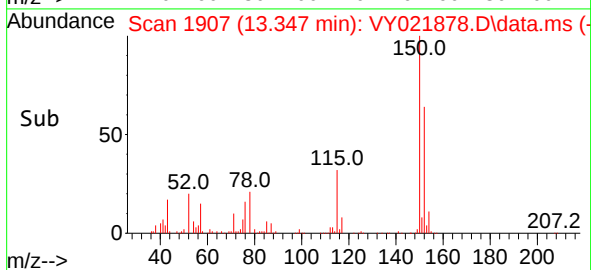
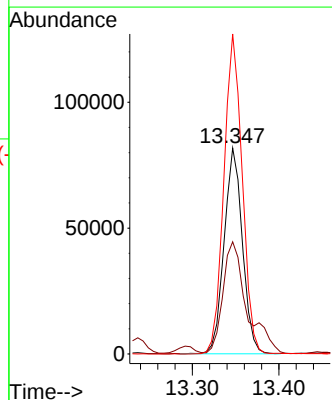
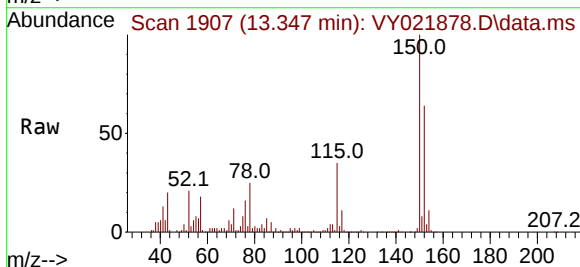
Instrument :
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HR-02-041125

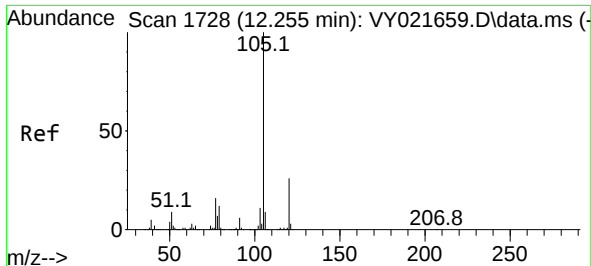
Tgt Ion:106 Resp: 115789
Ion Ratio Lower Upper
106 100
91 216.9 106.7 319.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY021878.D
Acq: 14 Apr 2025 18:34

Tgt Ion:152 Resp: 120139
Ion Ratio Lower Upper
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115 70.9 28.8 86.5
150 155.8 0.0 348.4

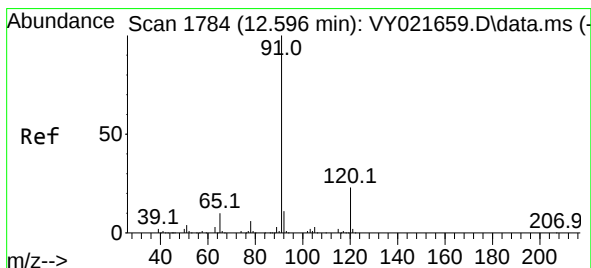
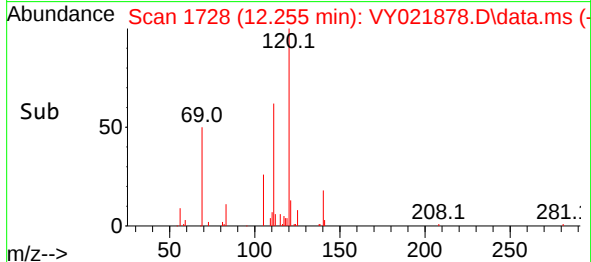
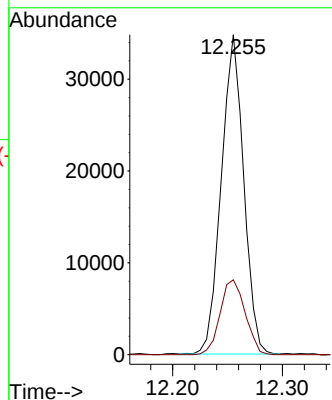
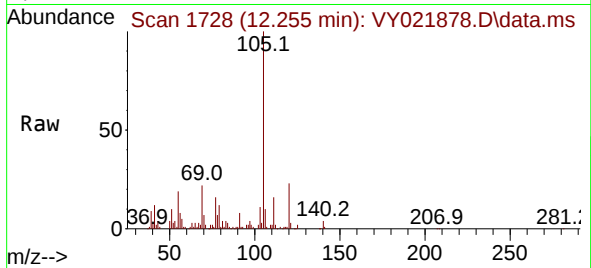




#73
Isopropylbenzene
Concen: 5.525 ug/l
RT: 12.255 min Scan# 1728
Delta R.T. 0.000 min
Lab File: VY021878.D
Acq: 14 Apr 2025 18:34

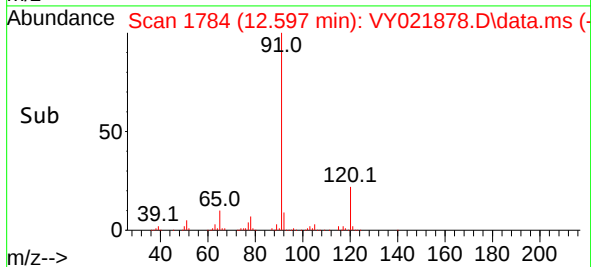
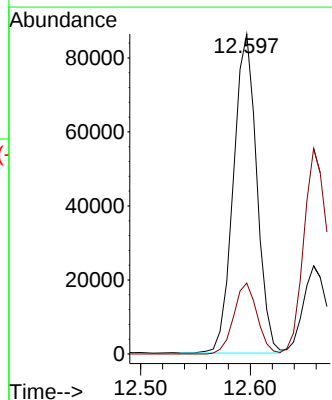
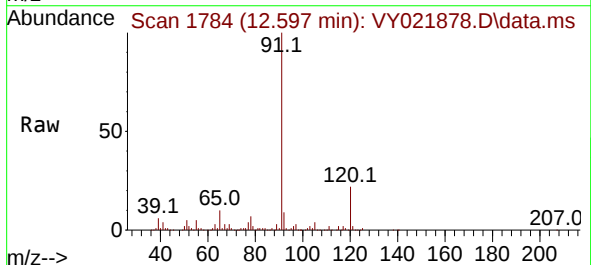
Instrument :
MSVOA_Y
ClientSampleId :
HR-02-041125

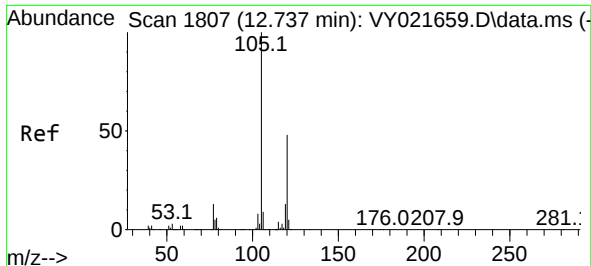
Tgt Ion:105 Resp: 49304
Ion Ratio Lower Upper
105 100
120 26.2 13.2 39.5



#78
n-propylbenzene
Concen: 11.835 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VY021878.D
Acq: 14 Apr 2025 18:34

Tgt Ion: 91 Resp: 126963
Ion Ratio Lower Upper
91 100
120 22.3 11.3 33.9

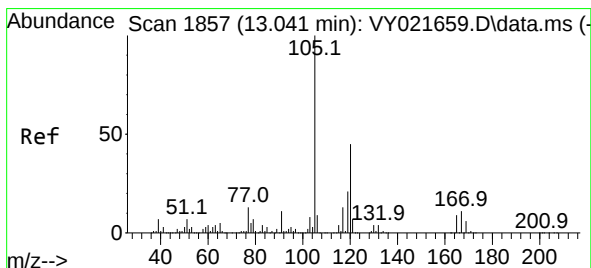
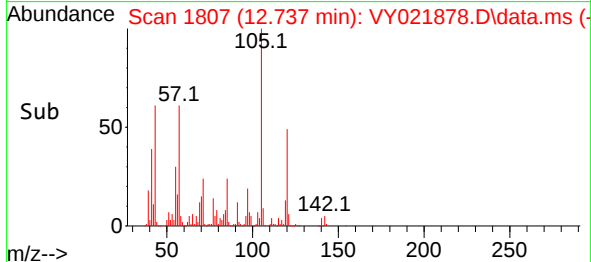
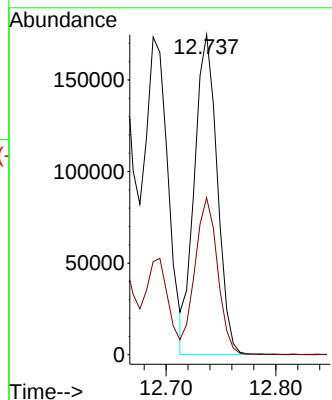
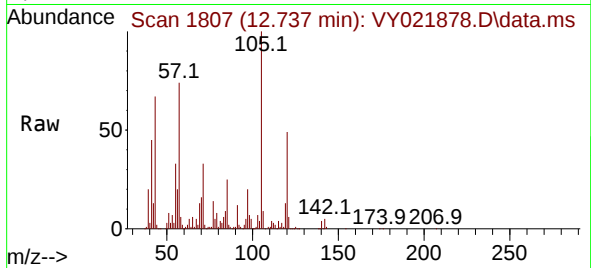




#80
 1,3,5-Trimethylbenzene
 Concen: 34.472 ug/l
 RT: 12.737 min Scan# 1807
 Delta R.T. 0.000 min
 Lab File: VY021878.D
 Acq: 14 Apr 2025 18:34

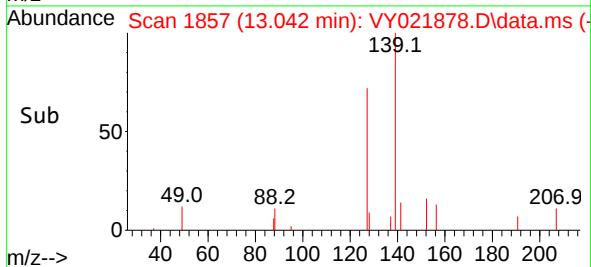
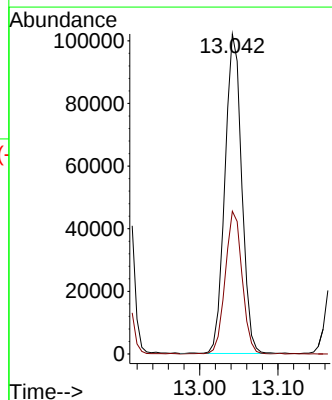
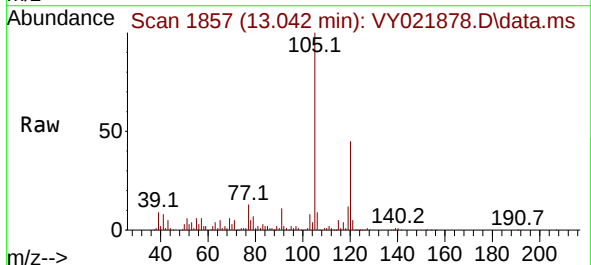
Instrument :
 MSVOA_Y
 ClientSampleId :
 HR-02-041125

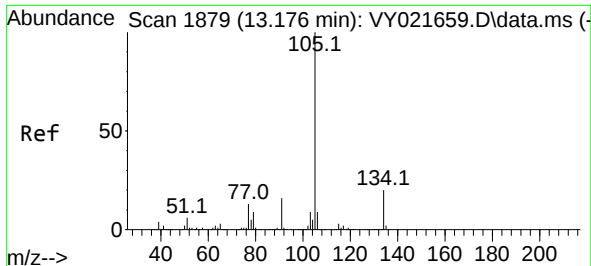
Tgt Ion:105 Resp: 251400
 Ion Ratio Lower Upper
 105 100
 120 49.0 24.5 73.5



#84
 1,2,4-Trimethylbenzene
 Concen: 21.095 ug/l
 RT: 13.042 min Scan# 1857
 Delta R.T. 0.000 min
 Lab File: VY021878.D
 Acq: 14 Apr 2025 18:34

Tgt Ion:105 Resp: 152051
 Ion Ratio Lower Upper
 105 100
 120 45.0 22.7 68.1

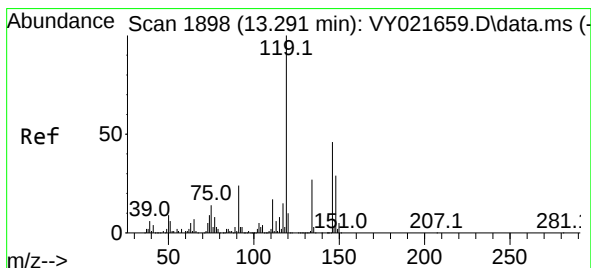
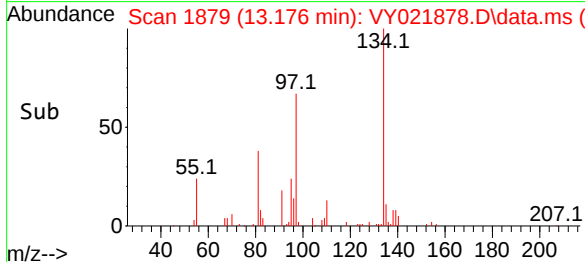
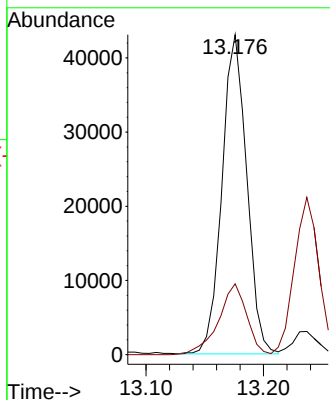
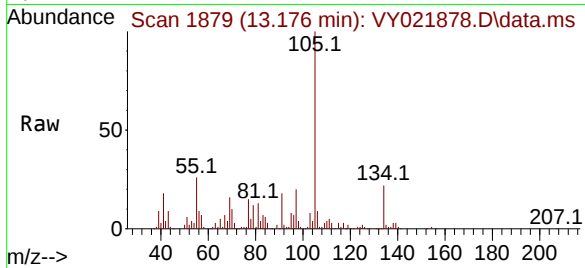




#85
 sec-Butylbenzene
 Concen: 6.628 ug/l
 RT: 13.176 min Scan# 1879
 Delta R.T. 0.000 min
 Lab File: VY021878.D
 Acq: 14 Apr 2025 18:34

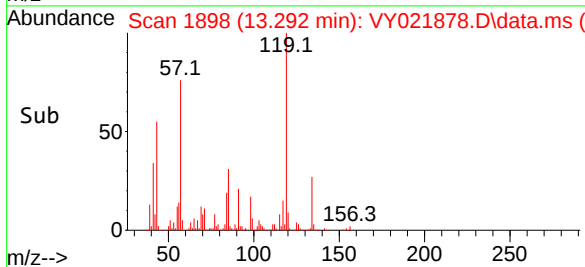
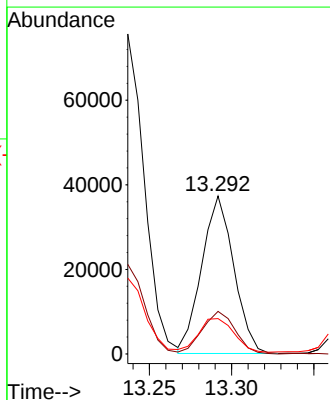
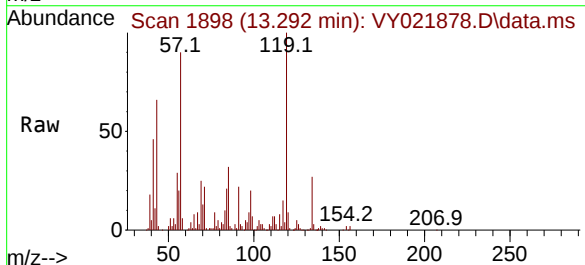
Instrument :
 MSVOA_Y
 ClientSampleId :
 HR-02-041125

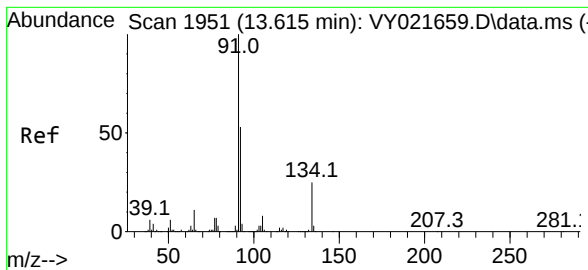
Tgt Ion:105 Resp: 62914
 Ion Ratio Lower Upper
 105 100
 134 25.3 10.1 30.1



#86
 p-Isopropyltoluene
 Concen: 6.452 ug/l
 RT: 13.292 min Scan# 1898
 Delta R.T. 0.000 min
 Lab File: VY021878.D
 Acq: 14 Apr 2025 18:34

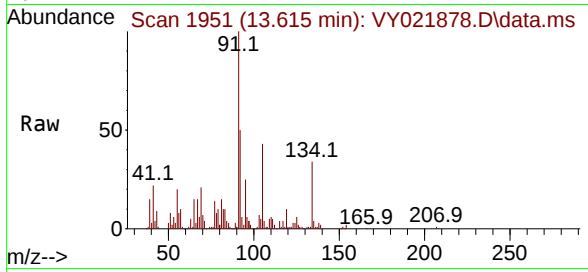
Tgt Ion:119 Resp: 50622
 Ion Ratio Lower Upper
 119 100
 134 27.7 13.2 39.5
 91 23.2 12.0 36.0





#89
 n-Butylbenzene
 Concen: 5.562 ug/l
 RT: 13.615 min Scan# 1951
 Delta R.T. 0.000 min
 Lab File: VY021878.D
 Acq: 14 Apr 2025 18:34

Instrument :
 MSVOA_Y
 ClientSampleId :
 HR-02-041125



Tgt Ion: 91 Resp: 40358

Ion	Ratio	Lower	Upper
91	100		
92	71.6	26.4	79.2
134	0.0	12.8	38.4

