

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY110623\  
 Data File : VY016239.D  
 Acq On : 06 Nov 2023 16:06  
 Operator : SY/MD  
 Sample : 05253-03  
 Misc : 4.71g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 L-3(120FT)(0-5)

Quant Time: Nov 06 23:59:05 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y103123S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 01 03:33:29 2023  
 Response via : Initial Calibration

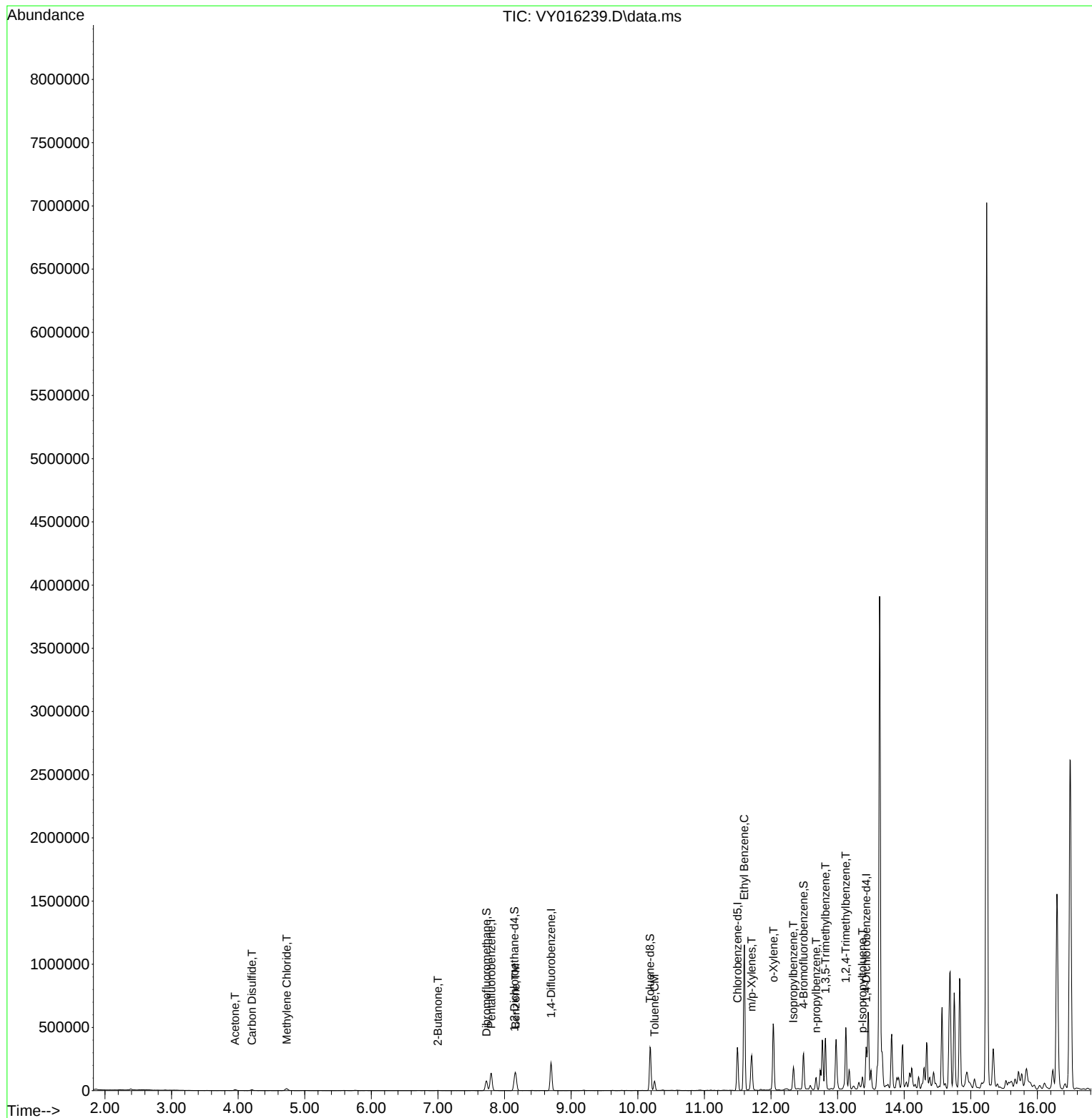
| Compound                    | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|------------|----------|
| -----                       |        |       |          |          |            |          |
| Internal Standards          |        |       |          |          |            |          |
| 1) Pentafluorobenzene       | 7.801  | 168   | 111388   | 50.000   | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.697  | 114   | 191728   | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5        | 11.496 | 117   | 183829   | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.428 | 152   | 85585    | 50.000   | ug/l       | 0.00     |
| System Monitoring Compounds |        |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4   | 8.149  | 65    | 62663    | 60.120   | ug/l       | 0.00     |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | = 120.240% |          |
| 35) Dibromofluoromethane    | 7.728  | 113   | 55098    | 48.204   | ug/l       | 0.00     |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | = 96.400%  |          |
| 50) Toluene-d8              | 10.185 | 98    | 227059   | 50.103   | ug/l       | 0.00     |
| Spiked Amount               | 50.000 | Range | 58 - 134 | Recovery | = 100.200% |          |
| 62) 4-Bromofluorobenzene    | 12.489 | 95    | 81629    | 52.675   | ug/l       | 0.00     |
| Spiked Amount               | 50.000 | Range | 30 - 143 | Recovery | = 105.360% |          |
| Target Compounds            |        |       |          |          |            |          |
|                             |        |       |          |          |            | Qvalue   |
| 16) Acetone                 | 3.954  | 43    | 14243    | 72.021   | ug/l       | # 88     |
| 17) Carbon Disulfide        | 4.204  | 76    | 14515    | 6.596    | ug/l       | 96       |
| 20) Methylene Chloride      | 4.729  | 84    | 11885    | 8.695    | ug/l       | 88       |
| 25) 2-Butanone              | 6.996  | 43    | 2817     | 9.796    | ug/l       | 94       |
| 40) Benzene                 | 8.167  | 78    | 103587   | 21.861   | ug/l       | 99       |
| 52) Toluene                 | 10.252 | 92    | 31221    | 10.168   | ug/l       | 93       |
| 67) Ethyl Benzene           | 11.599 | 91    | 786331   | 120.373  | ug/l       | 98       |
| 68) m/p-Xylenes             | 11.709 | 106   | 88384    | 35.014   | ug/l       | 95       |
| 69) o-Xylene                | 12.038 | 106   | 138136   | 57.315   | ug/l       | 97       |
| 73) Isopropylbenzene        | 12.337 | 105   | 78654    | 12.252   | ug/l       | 99       |
| 78) n-propylbenzene         | 12.678 | 91    | 74218    | 9.778    | ug/l       | 99       |
| 80) 1,3,5-Trimethylbenzene  | 12.819 | 105   | 205109   | 39.435   | ug/l       | 97       |
| 84) 1,2,4-Trimethylbenzene  | 13.123 | 105   | 256353   | 49.810   | ug/l       | 96       |
| 86) p-Isopropyltoluene      | 13.373 | 119   | 34882    | 6.162    | ug/l       | 93       |
| -----                       |        |       |          |          |            |          |

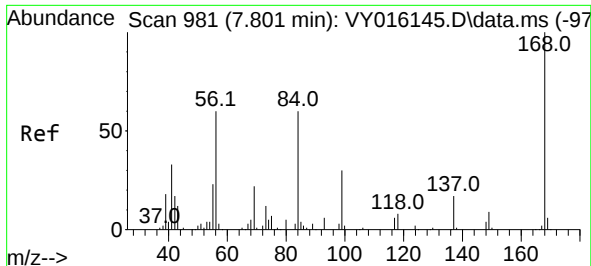
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY110623\  
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ALS Vial : 16 Sample Multiplier: 1

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MSVOA\_Y  
ClientSampleId :  
L-3(120FT)(0-5)

Quant Time: Nov 06 23:59:05 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y103123S.M  
Quant Title : SW846 8260  
QLast Update : Wed Nov 01 03:33:29 2023  
Response via : Initial Calibration

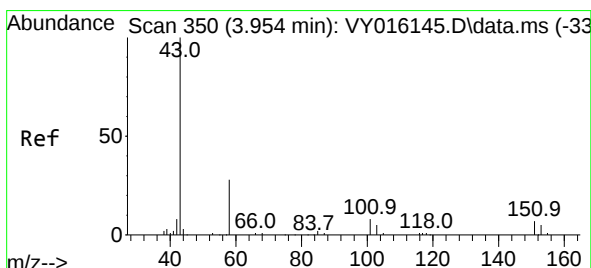
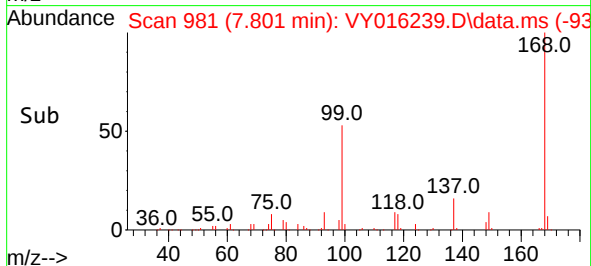
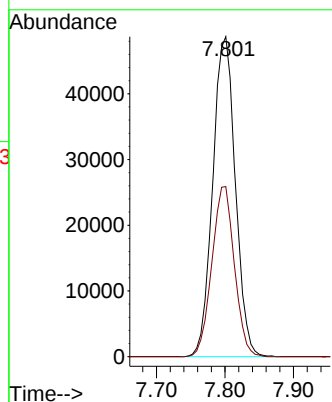
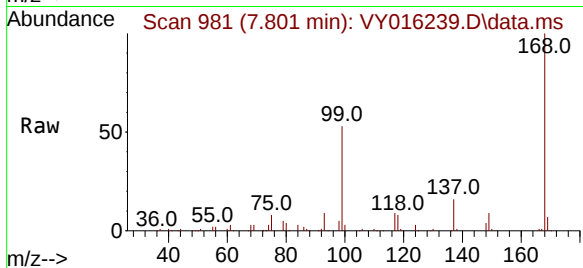




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.801 min Scan# 981  
Delta R.T. 0.000 min  
Lab File: VY016239.D  
Acq: 06 Nov 2023 16:06

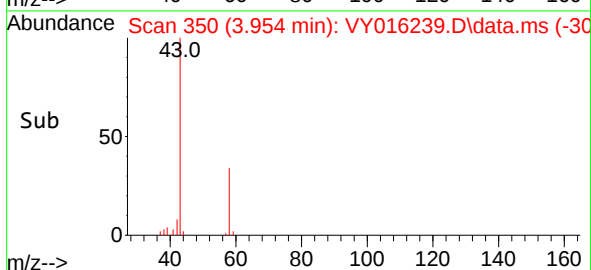
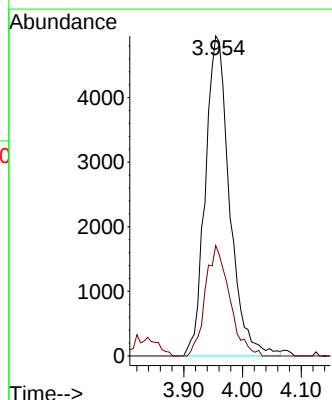
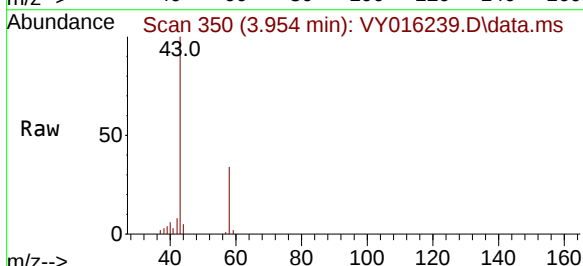
Instrument :  
MSVOA\_Y  
ClientSampleId :  
L-3(120FT)(0-5)

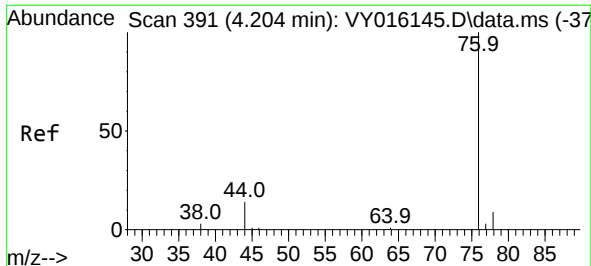
Tgt Ion:168 Resp: 111388  
Ion Ratio Lower Upper  
168 100  
99 53.1 43.4 65.0



#16  
Acetone  
Concen: 72.021 ug/l  
RT: 3.954 min Scan# 350  
Delta R.T. 0.000 min  
Lab File: VY016239.D  
Acq: 06 Nov 2023 16:06

Tgt Ion: 43 Resp: 14243  
Ion Ratio Lower Upper  
43 100  
58 34.5 22.7 34.1#

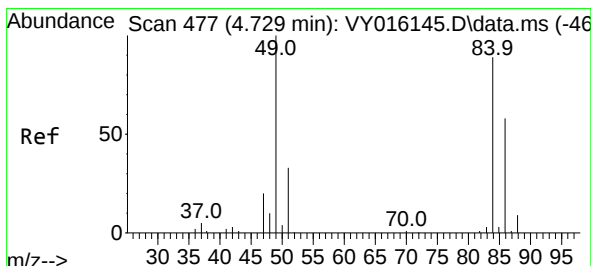
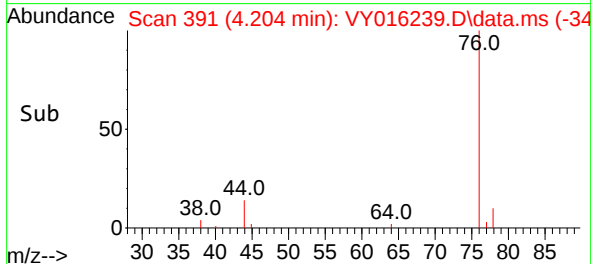
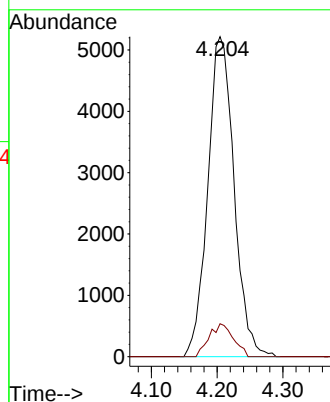
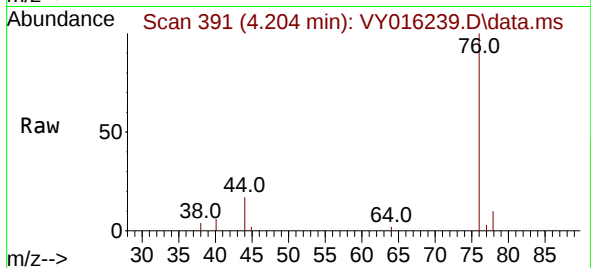




#17  
Carbon Disulfide  
Concen: 6.596 ug/l  
RT: 4.204 min Scan# 391  
Delta R.T. 0.000 min  
Lab File: VY016239.D  
Acq: 06 Nov 2023 16:06

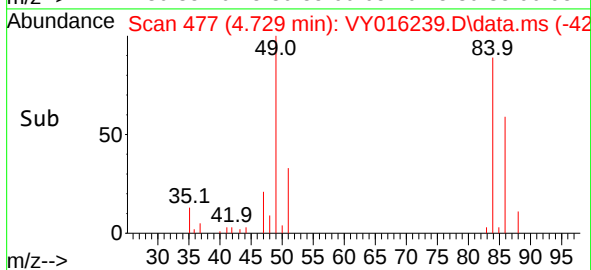
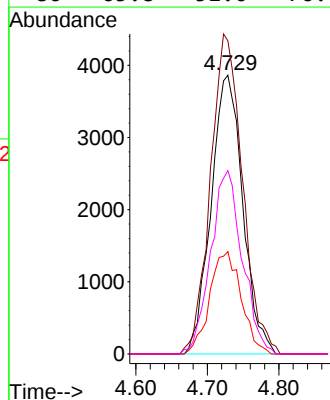
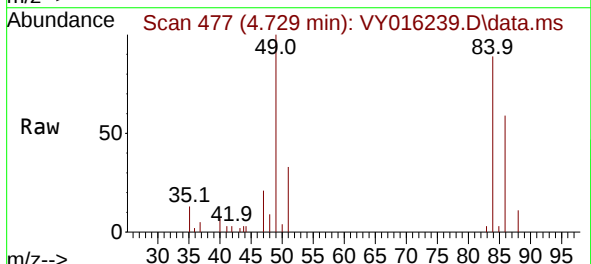
Instrument :  
MSVOA\_Y  
ClientSampleId :  
L-3(120FT)(0-5)

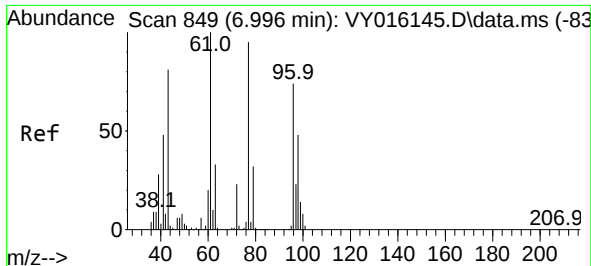
Tgt Ion: 76 Resp: 14515  
Ion Ratio Lower Upper  
76 100  
78 10.3 7.0 10.4



#20  
Methylene Chloride  
Concen: 8.695 ug/l  
RT: 4.729 min Scan# 477  
Delta R.T. -0.000 min  
Lab File: VY016239.D  
Acq: 06 Nov 2023 16:06

Tgt Ion: 84 Resp: 11885  
Ion Ratio Lower Upper  
84 100  
49 112.4 106.9 160.3  
51 36.8 33.2 49.8  
86 65.8 51.0 76.6

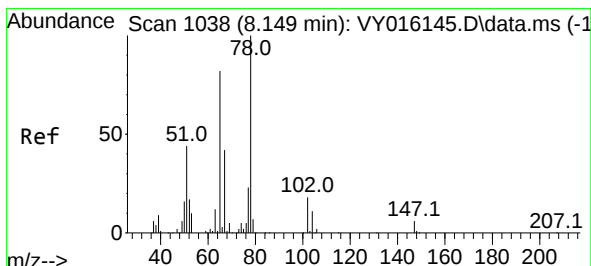
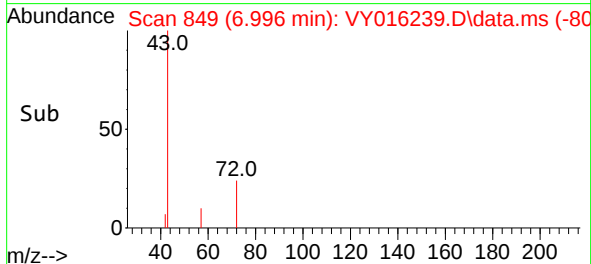
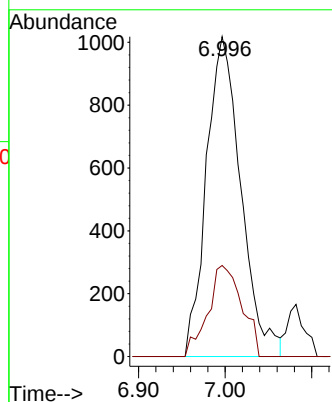
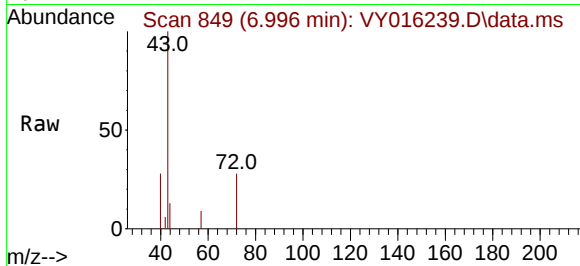




#25  
2-Butanone  
Concen: 9.796 ug/l  
RT: 6.996 min Scan# 849  
Delta R.T. 0.000 min  
Lab File: VY016239.D  
Acq: 06 Nov 2023 16:06

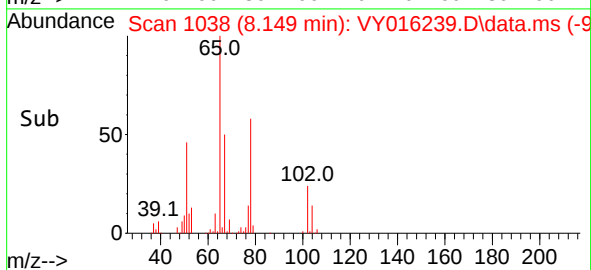
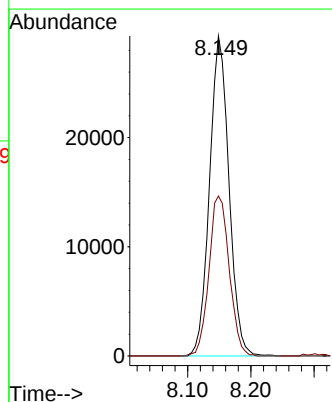
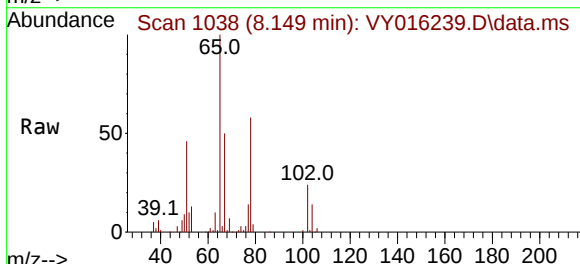
Instrument :  
MSVOA\_Y  
ClientSampleId :  
L-3(120FT)(0-5)

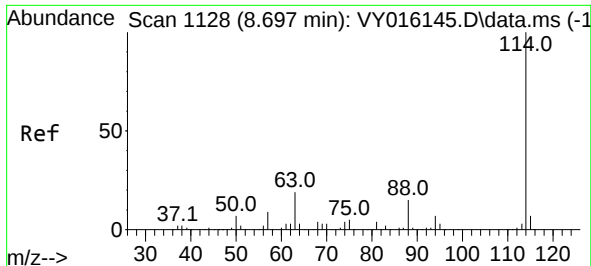
Tgt Ion: 43 Resp: 2817  
Ion Ratio Lower Upper  
43 100  
72 28.5 20.5 30.7



#33  
1,2-Dichloroethane-d4  
Concen: 60.120 ug/l  
RT: 8.149 min Scan# 1038  
Delta R.T. 0.000 min  
Lab File: VY016239.D  
Acq: 06 Nov 2023 16:06

Tgt Ion: 65 Resp: 62663  
Ion Ratio Lower Upper  
65 100  
67 52.0 0.0 101.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.697 min Scan# 1128

Delta R.T. 0.000 min

Lab File: VY016239.D

Acq: 06 Nov 2023 16:06

Instrument :

MSVOA\_Y

ClientSampleId :

L-3(120FT)(0-5)

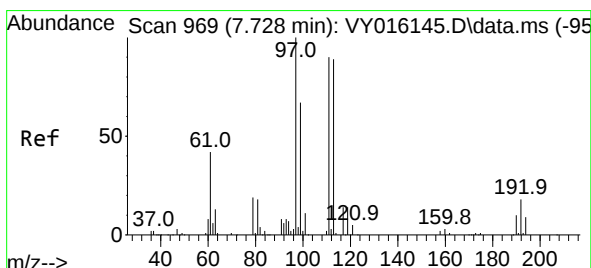
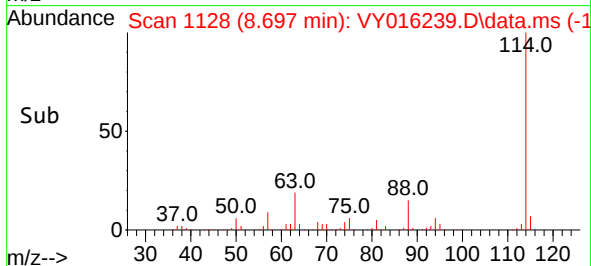
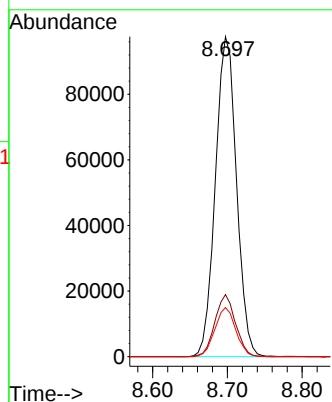
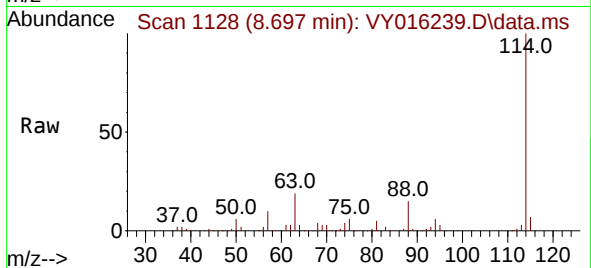
Tgt Ion:114 Resp: 191728

Ion Ratio Lower Upper

114 100

63 19.4 0.0 42.4

88 15.4 0.0 30.6



#35

Dibromofluoromethane

Concen: 48.204 ug/l

RT: 7.728 min Scan# 969

Delta R.T. 0.000 min

Lab File: VY016239.D

Acq: 06 Nov 2023 16:06

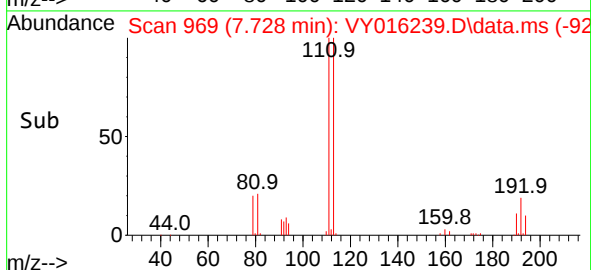
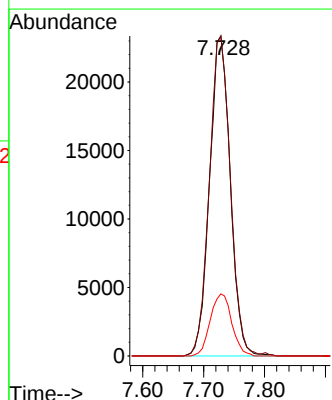
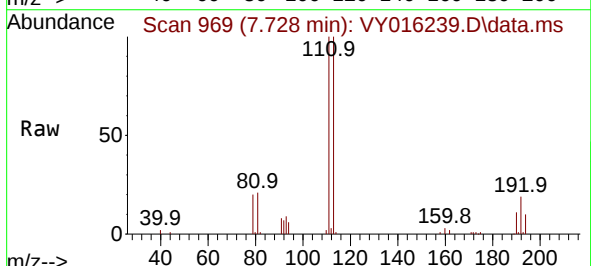
Tgt Ion:113 Resp: 55098

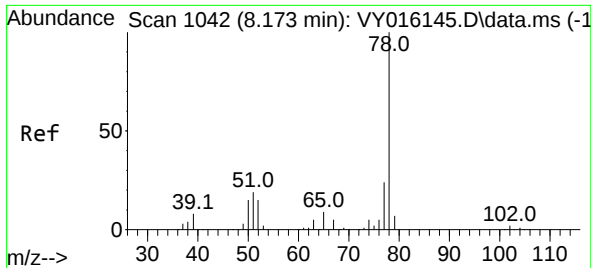
Ion Ratio Lower Upper

113 100

111 101.5 81.3 121.9

192 20.2 16.9 25.3

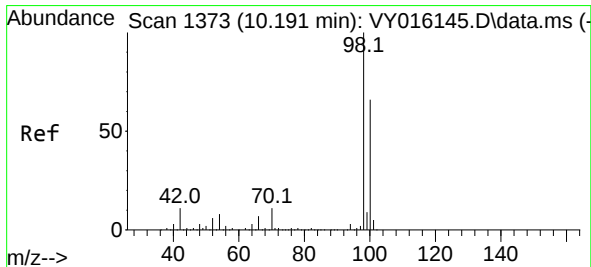
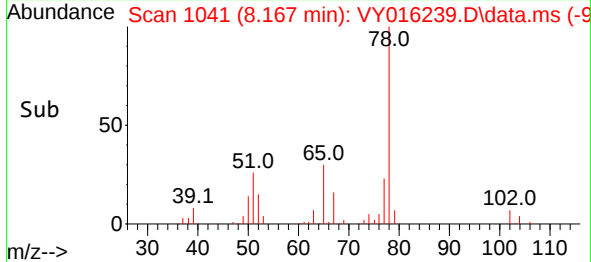
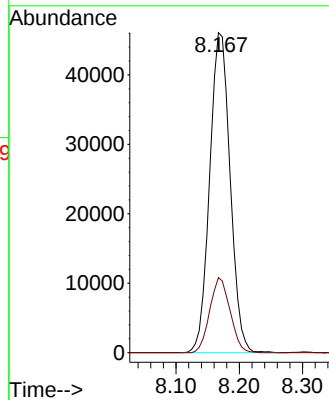
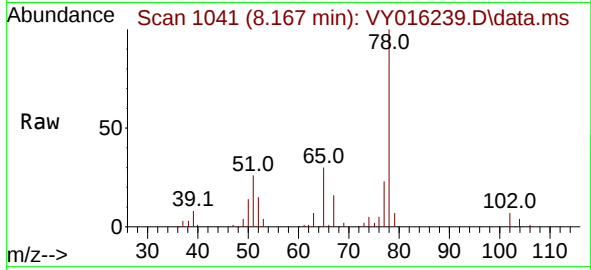




#40  
Benzene  
Concen: 21.861 ug/l  
RT: 8.167 min Scan# 1042  
Delta R.T. -0.006 min  
Lab File: VY016239.D  
Acq: 06 Nov 2023 16:06

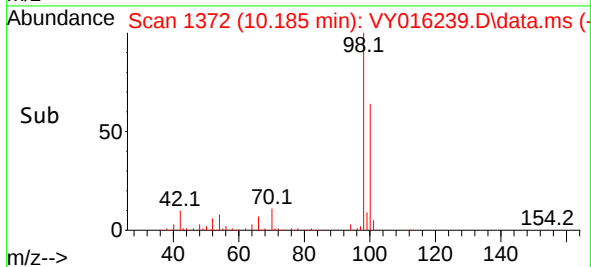
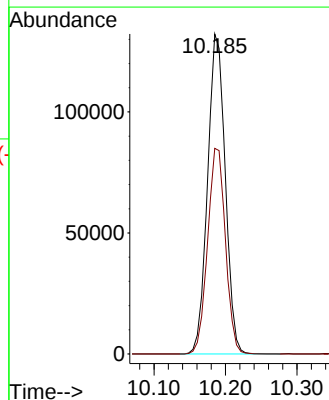
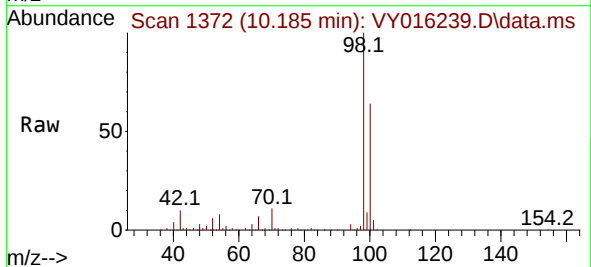
Instrument :  
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L-3(120FT)(0-5)

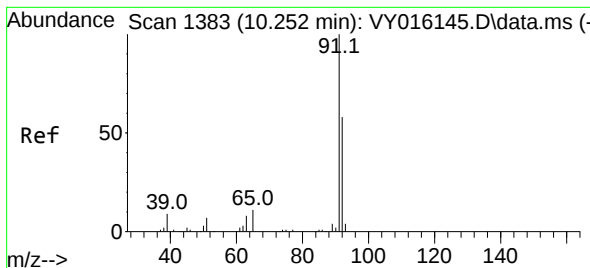
Tgt Ion: 78 Resp: 103587  
Ion Ratio Lower Upper  
78 100  
77 23.4 19.0 28.6



#50  
Toluene-d8  
Concen: 50.103 ug/l  
RT: 10.185 min Scan# 1372  
Delta R.T. -0.006 min  
Lab File: VY016239.D  
Acq: 06 Nov 2023 16:06

Tgt Ion: 98 Resp: 227059  
Ion Ratio Lower Upper  
98 100  
100 64.8 50.1 75.1





#52

Toluene

Concen: 10.168 ug/l

RT: 10.252 min Scan# 1383

Delta R.T. 0.000 min

Lab File: VY016239.D

Acq: 06 Nov 2023 16:06

Instrument :

MSVOA\_Y

ClientSampleId :

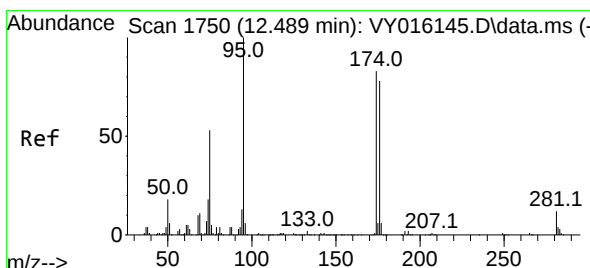
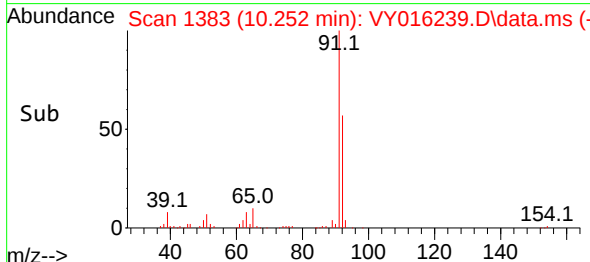
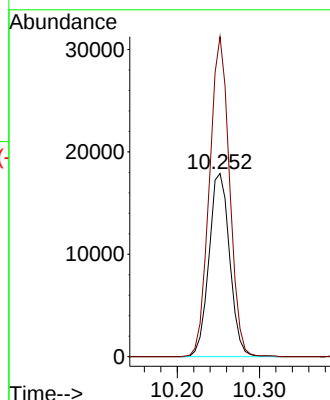
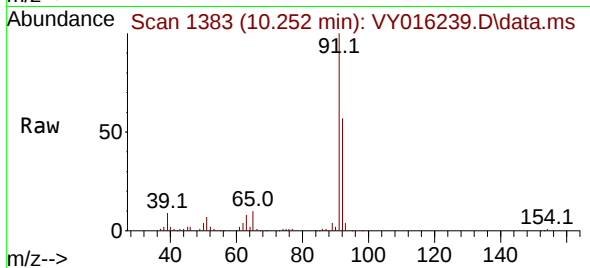
L-3(120FT)(0-5)

Tgt Ion: 92 Resp: 31221

Ion Ratio Lower Upper

92 100

91 169.9 143.8 215.6



#62

4-Bromofluorobenzene

Concen: 52.675 ug/l

RT: 12.489 min Scan# 1750

Delta R.T. 0.000 min

Lab File: VY016239.D

Acq: 06 Nov 2023 16:06

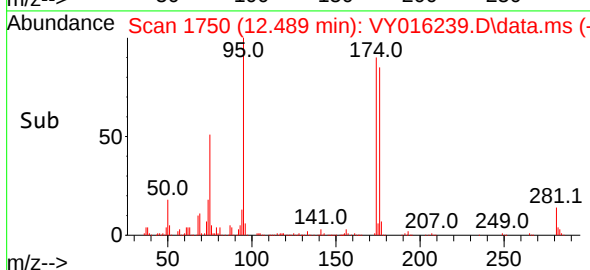
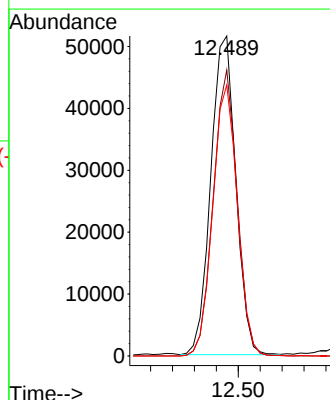
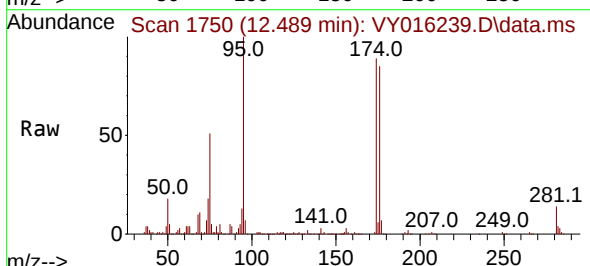
Tgt Ion: 95 Resp: 81629

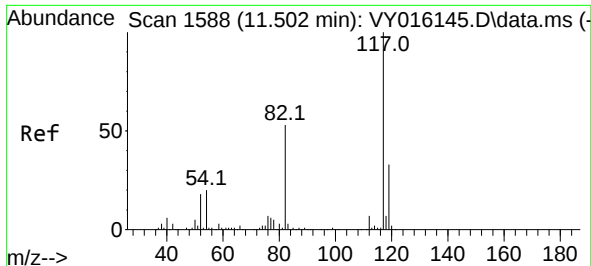
Ion Ratio Lower Upper

95 100

174 86.0 0.0 178.2

176 83.6 0.0 173.8

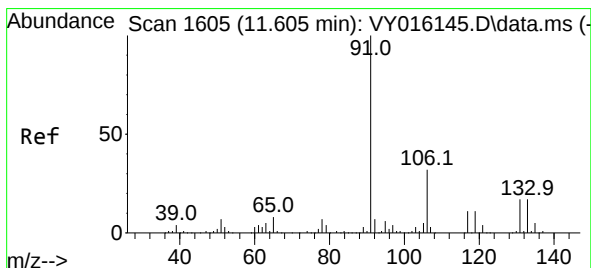
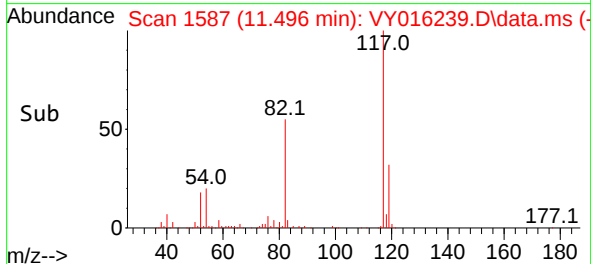
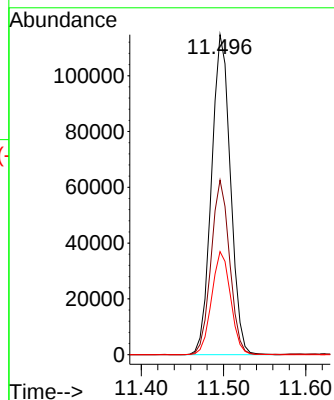
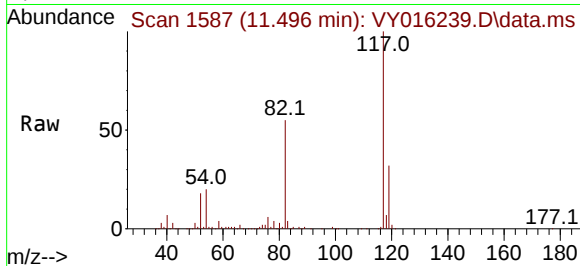




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.496 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VY016239.D  
Acq: 06 Nov 2023 16:06

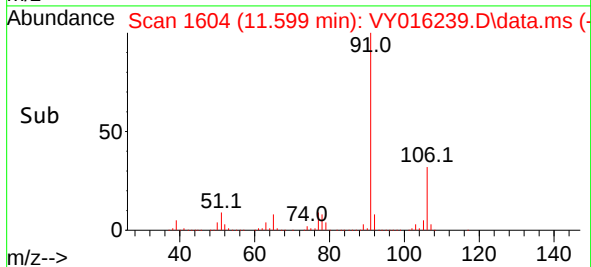
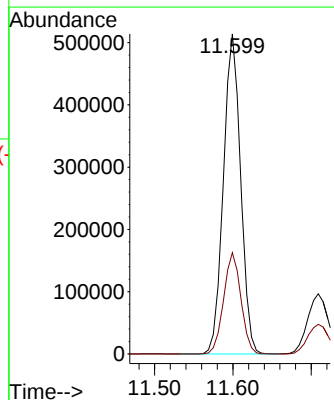
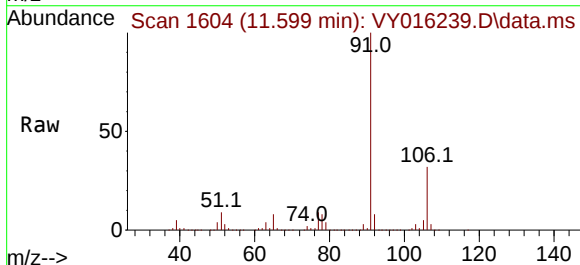
Instrument :  
MSVOA\_Y  
ClientSampleId :  
L-3(120FT)(0-5)

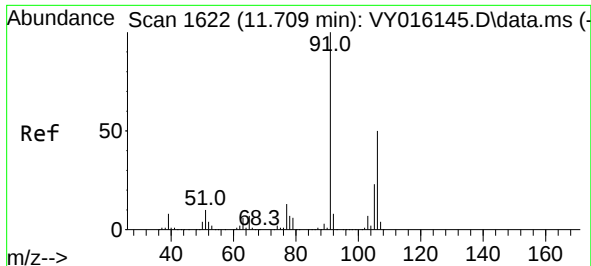
Tgt Ion:117 Resp: 183829  
Ion Ratio Lower Upper  
117 100  
82 54.6 43.4 65.0  
119 32.2 26.3 39.5



#67  
Ethyl Benzene  
Concen: 120.373 ug/l  
RT: 11.599 min Scan# 1604  
Delta R.T. -0.006 min  
Lab File: VY016239.D  
Acq: 06 Nov 2023 16:06

Tgt Ion: 91 Resp: 786331  
Ion Ratio Lower Upper  
91 100  
106 31.6 24.6 36.8

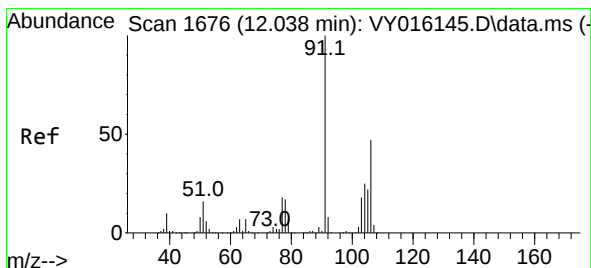
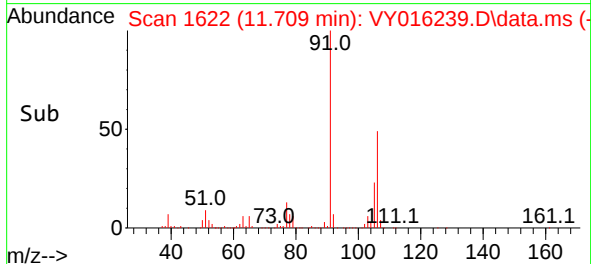
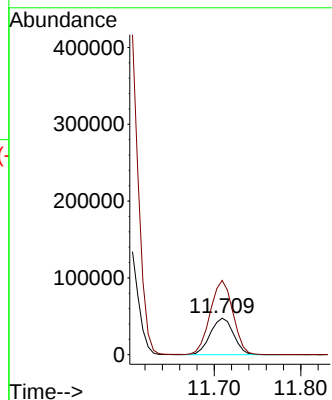
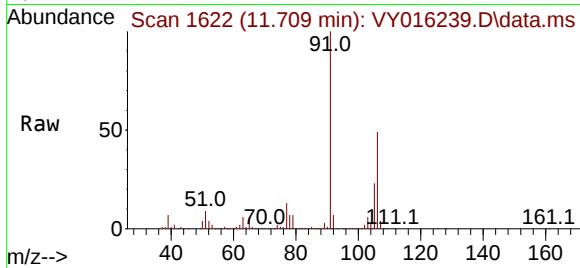




#68  
m/p-Xylenes  
Concen: 35.014 ug/l  
RT: 11.709 min Scan# 1622  
Delta R.T. 0.000 min  
Lab File: VY016239.D  
Acq: 06 Nov 2023 16:06

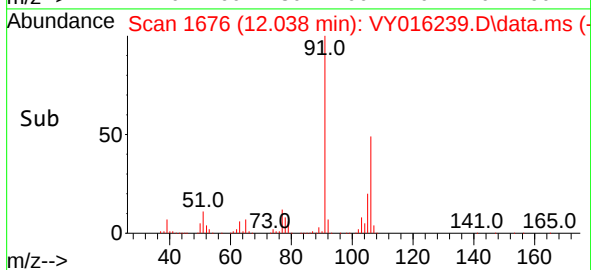
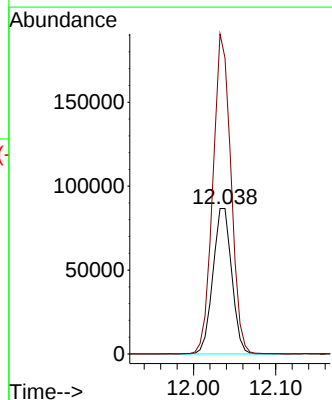
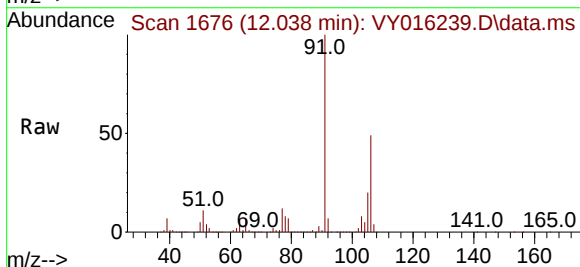
Instrument :  
MSVOA\_Y  
ClientSampleId :  
L-3(120FT)(0-5)

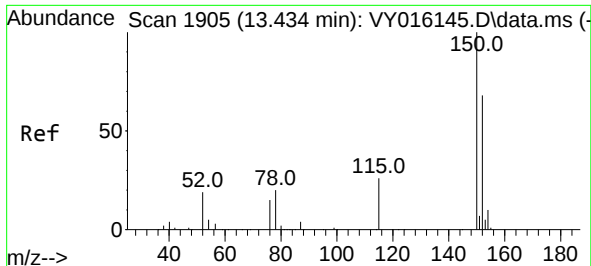
Tgt Ion:106 Resp: 88384  
Ion Ratio Lower Upper  
106 100  
91 199.3 166.1 249.1



#69  
o-Xylene  
Concen: 57.315 ug/l  
RT: 12.038 min Scan# 1676  
Delta R.T. 0.000 min  
Lab File: VY016239.D  
Acq: 06 Nov 2023 16:06

Tgt Ion:106 Resp: 138136  
Ion Ratio Lower Upper  
106 100  
91 210.8 108.1 324.3

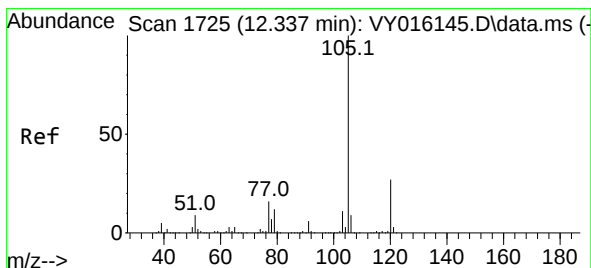
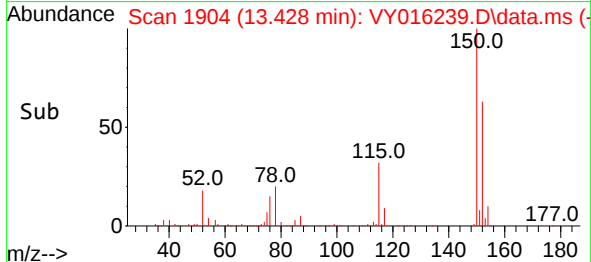
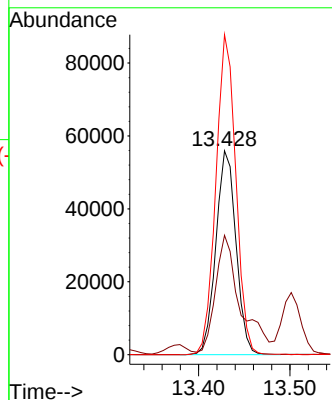
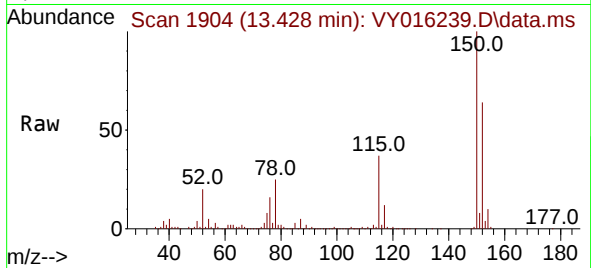




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.428 min Scan# 1904  
Delta R.T. -0.006 min  
Lab File: VY016239.D  
Acq: 06 Nov 2023 16:06

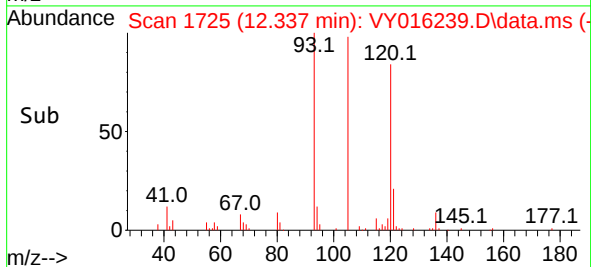
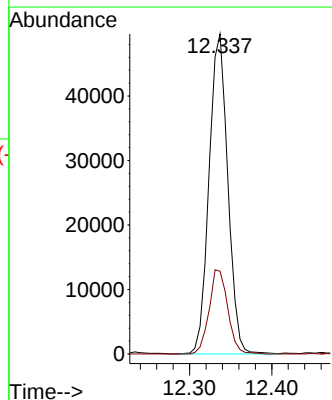
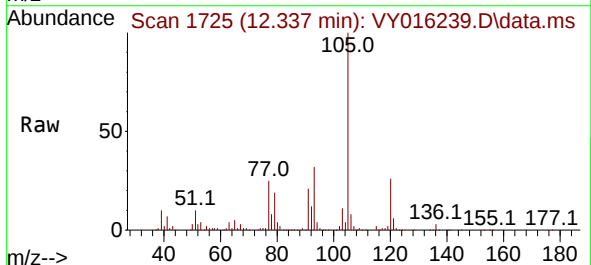
Instrument :  
MSVOA\_Y  
ClientSampleId :  
L-3(120FT)(0-5)

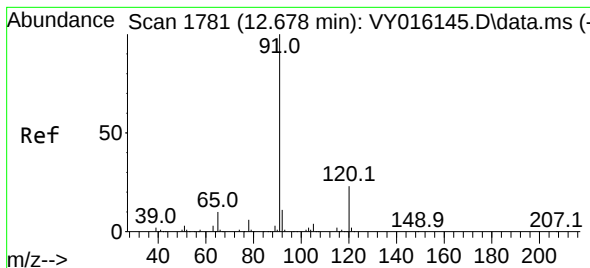
Tgt Ion:152 Resp: 85585  
Ion Ratio Lower Upper  
152 100  
115 69.4 28.8 86.5  
150 155.9 0.0 348.8



#73  
Isopropylbenzene  
Concen: 12.252 ug/l  
RT: 12.337 min Scan# 1725  
Delta R.T. 0.000 min  
Lab File: VY016239.D  
Acq: 06 Nov 2023 16:06

Tgt Ion:105 Resp: 78654  
Ion Ratio Lower Upper  
105 100  
120 26.1 13.3 39.9





#78

n-propylbenzene

Concen: 9.778 ug/l

RT: 12.678 min Scan# 1

Delta R.T. 0.000 min

Lab File: VY016239.D

Acq: 06 Nov 2023 16:06

Instrument :

MSVOA\_Y

ClientSampleId :

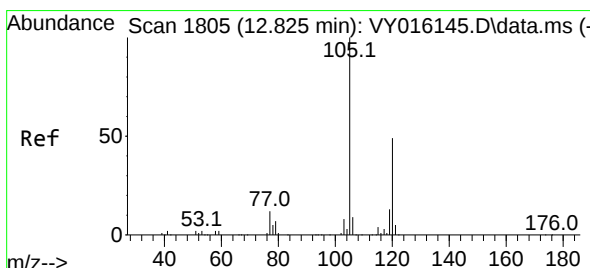
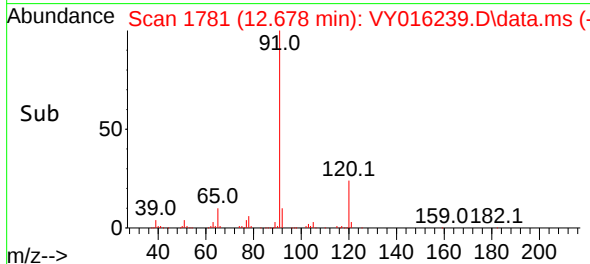
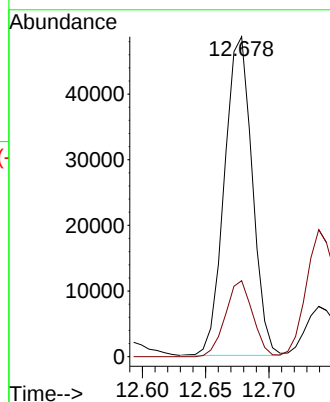
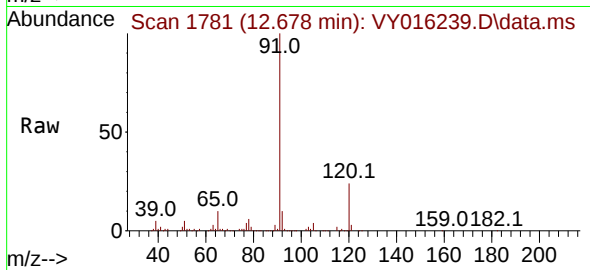
L-3(120FT)(0-5)

Tgt Ion: 91 Resp: 74218

Ion Ratio Lower Upper

91 100

120 23.5 11.5 34.4



#80

1,3,5-Trimethylbenzene

Concen: 39.435 ug/l

RT: 12.819 min Scan# 1804

Delta R.T. -0.006 min

Lab File: VY016239.D

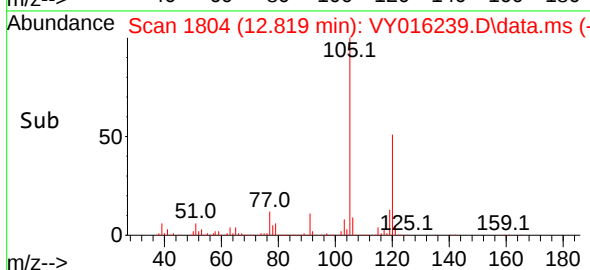
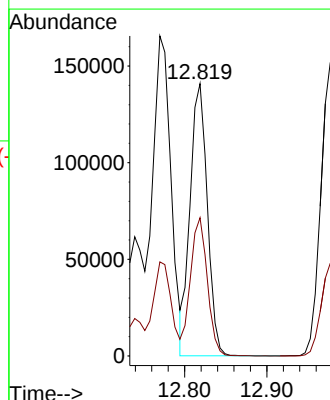
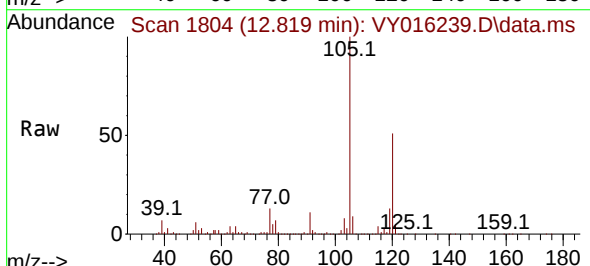
Acq: 06 Nov 2023 16:06

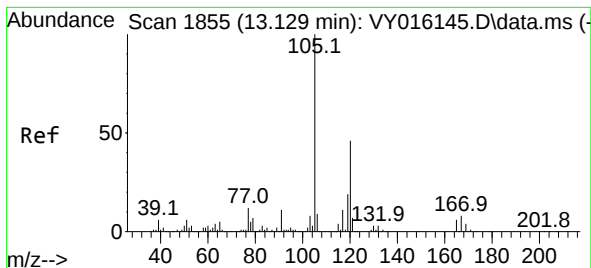
Tgt Ion: 105 Resp: 205109

Ion Ratio Lower Upper

105 100

120 50.0 23.9 71.7





#84

1,2,4-Trimethylbenzene

Concen: 49.810 ug/l

RT: 13.123 min Scan# 1854

Delta R.T. -0.006 min

Lab File: VY016239.D

Acq: 06 Nov 2023 16:06

Instrument :

MSVOA\_Y

ClientSampleId :

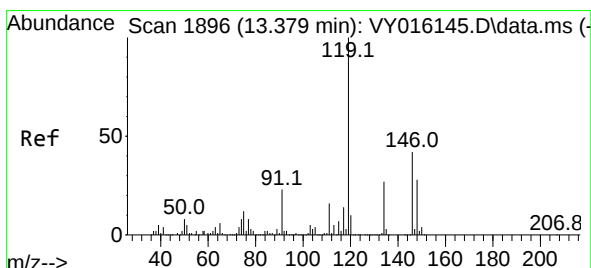
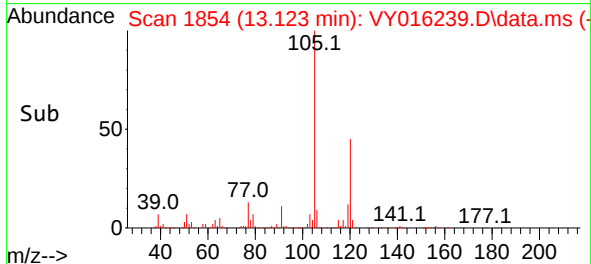
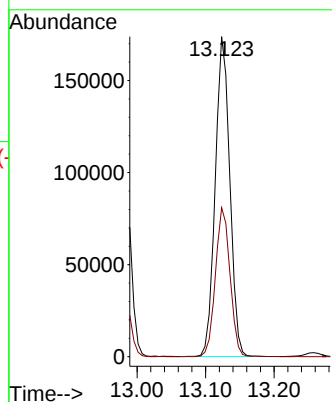
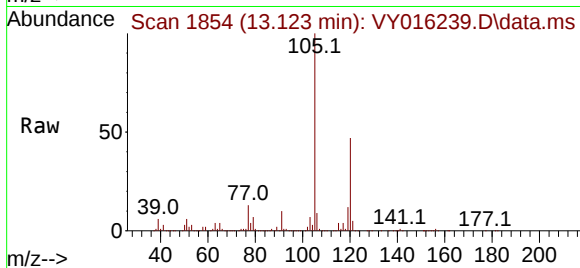
L-3(120FT)(0-5)

Tgt Ion:105 Resp: 256353

Ion Ratio Lower Upper

105 100

120 46.7 22.2 66.6



#86

p-Isopropyltoluene

Concen: 6.162 ug/l

RT: 13.373 min Scan# 1895

Delta R.T. -0.006 min

Lab File: VY016239.D

Acq: 06 Nov 2023 16:06

Tgt Ion:119 Resp: 34882

Ion Ratio Lower Upper

119 100

134 27.3 13.3 39.8

91 31.1 12.4 37.4

